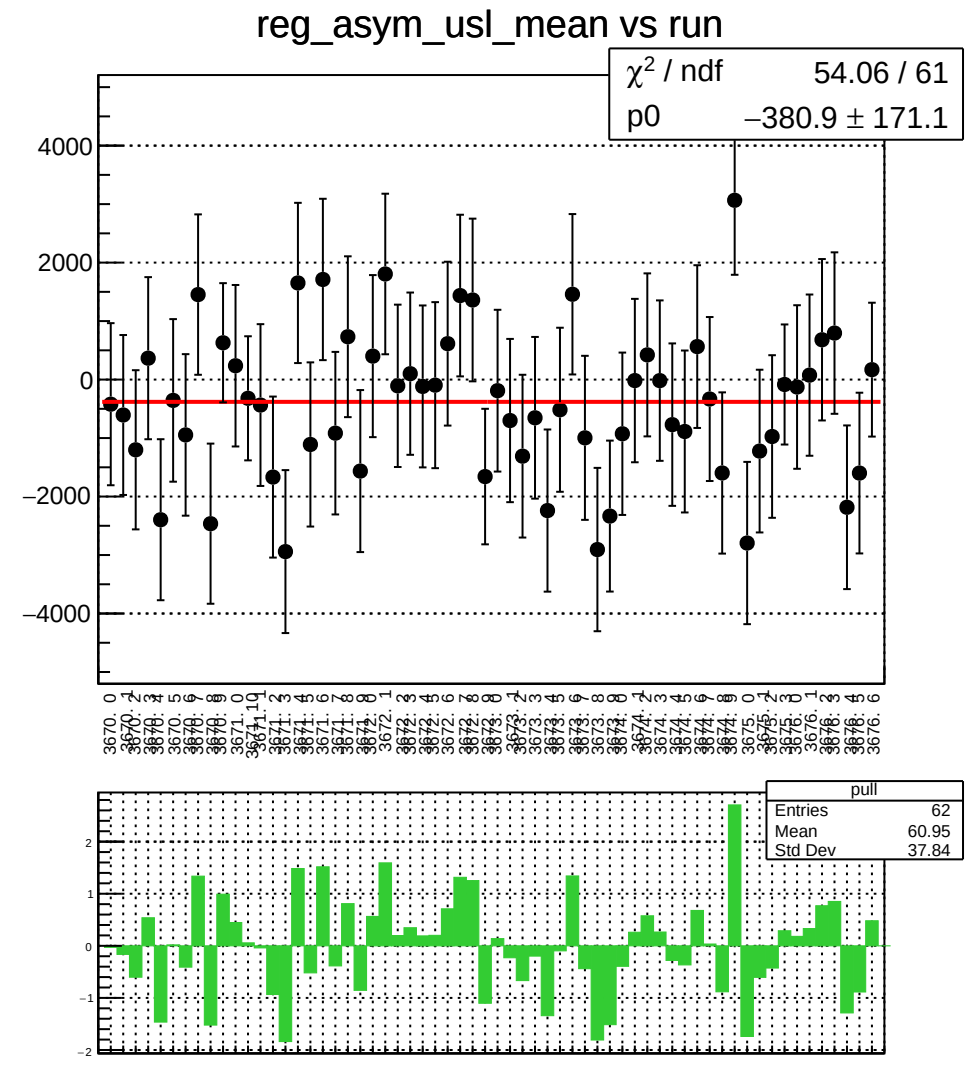
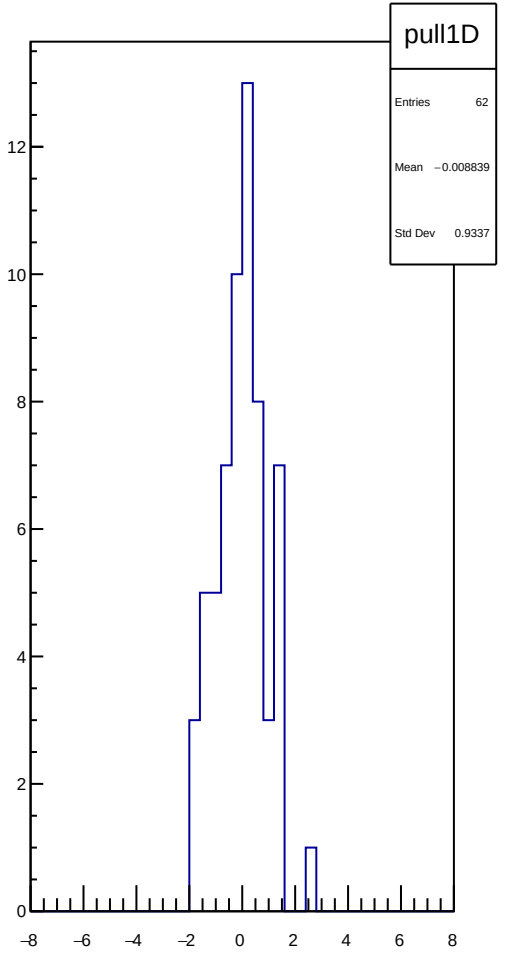
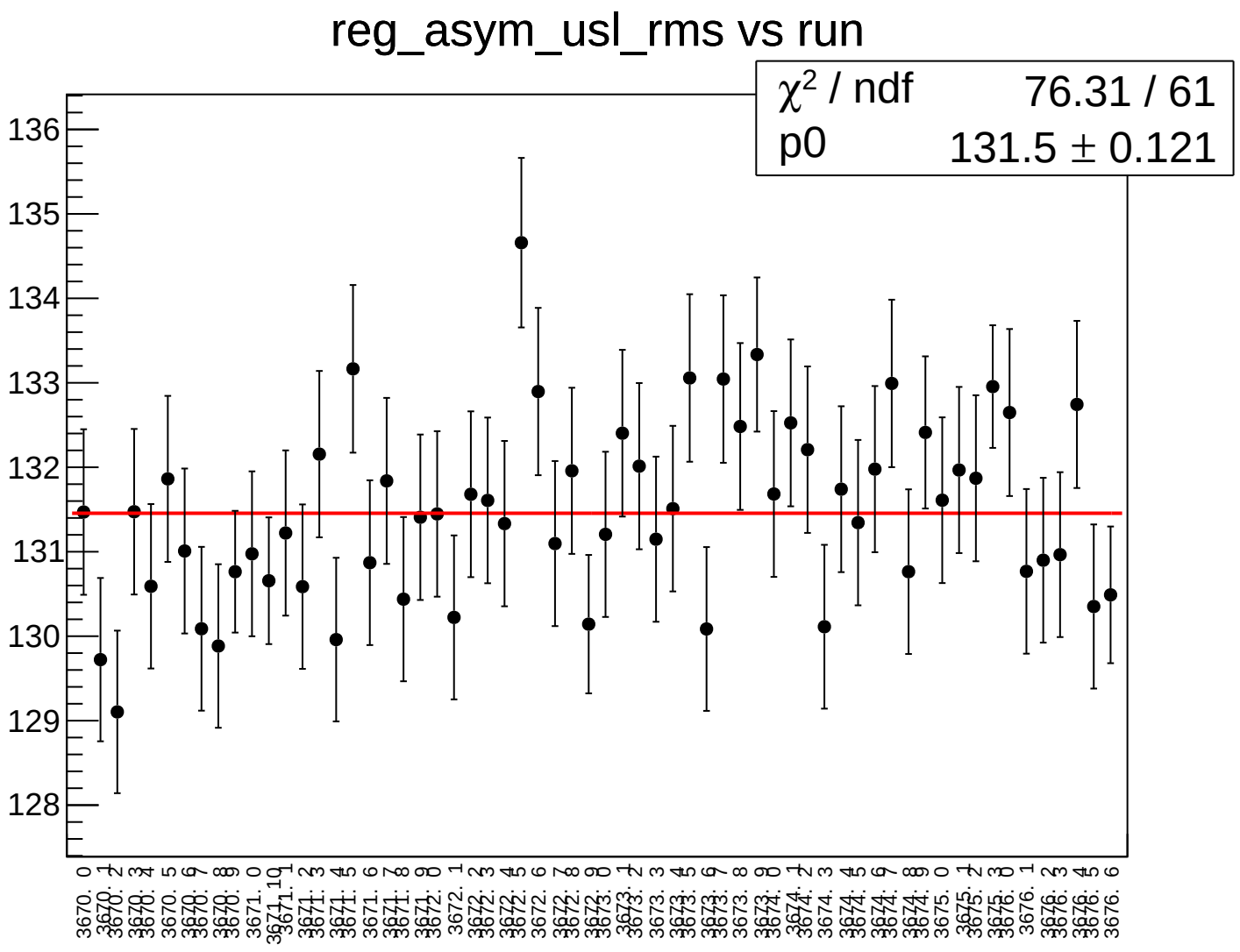
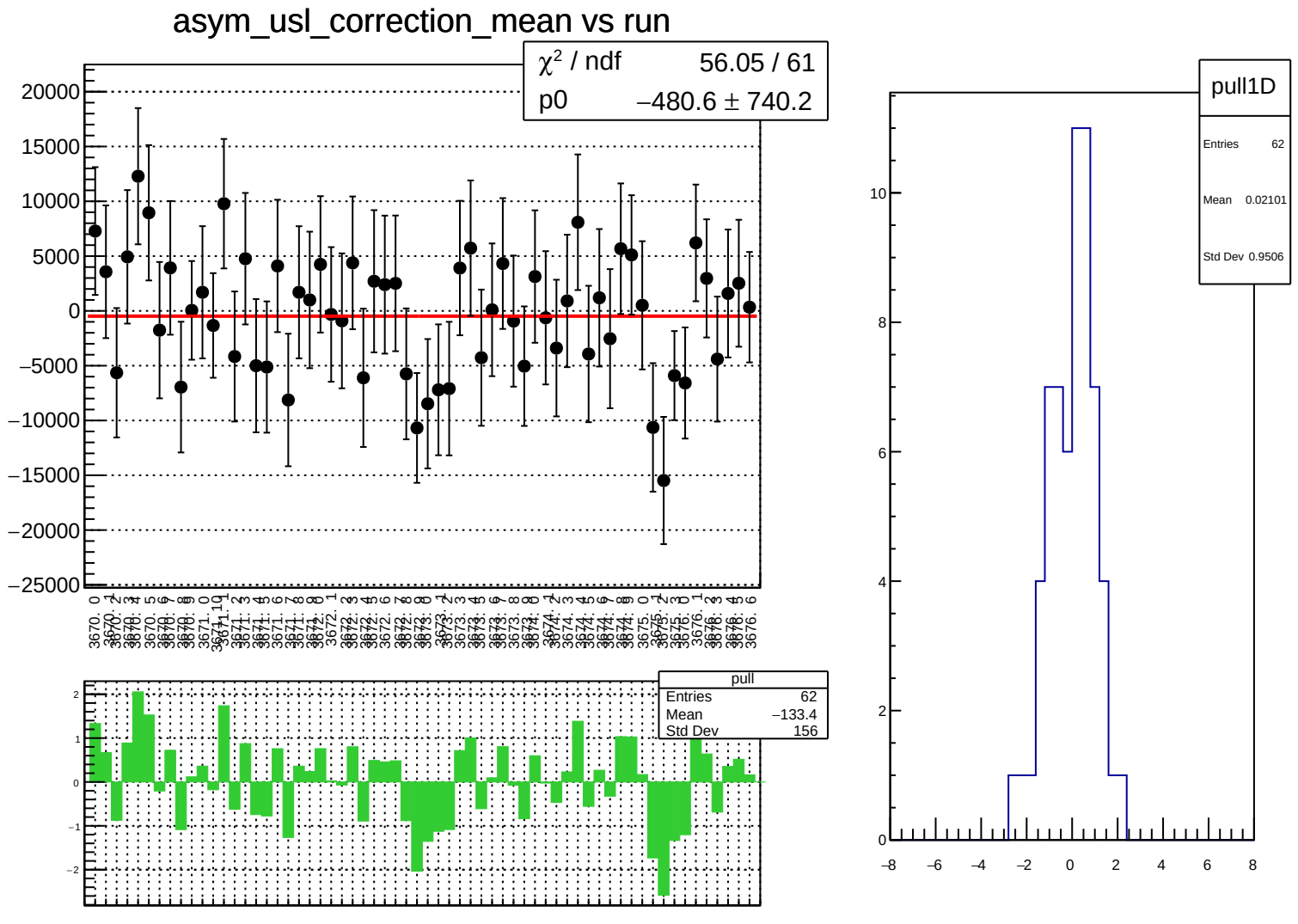
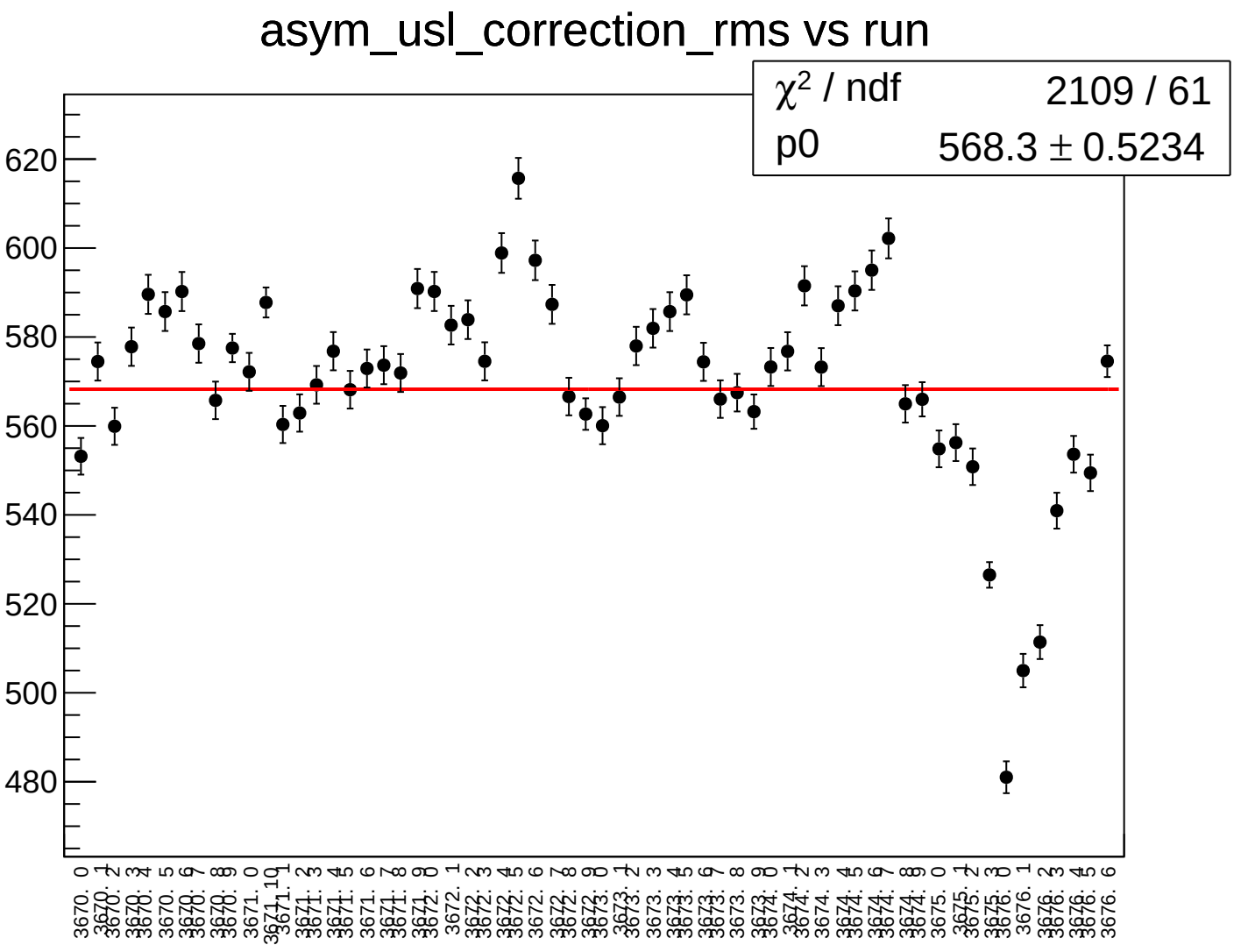
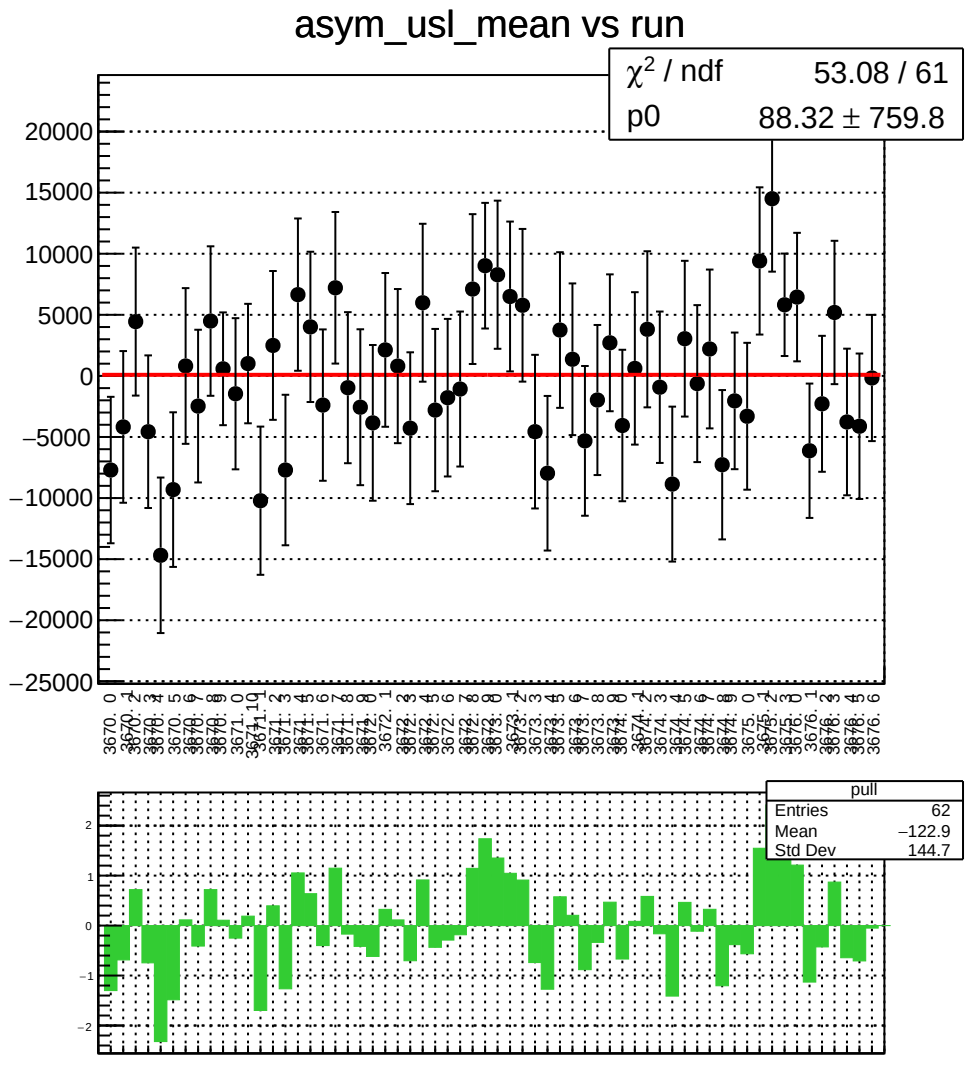

reg_asym_usl_mean vs run
χ² / ndf 54.06 / 61
p0 −380.9 ± 171.1
4000
2000
0
−2000
−4000
pull
Entries 62
Mean 60.95
Std Dev 37.84
2
1
0
−1
−2

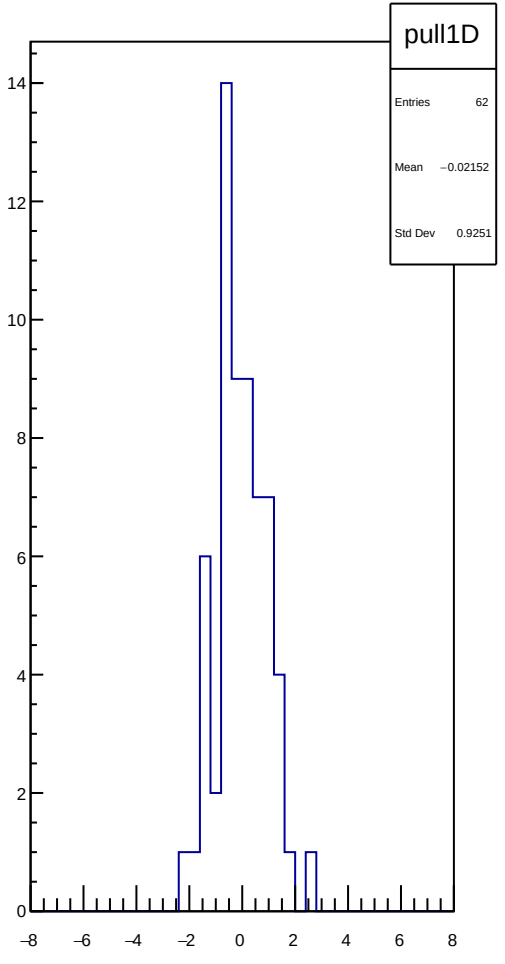

pull1D
Entries 62
Mean −0.008839
Std Dev 0.9337
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

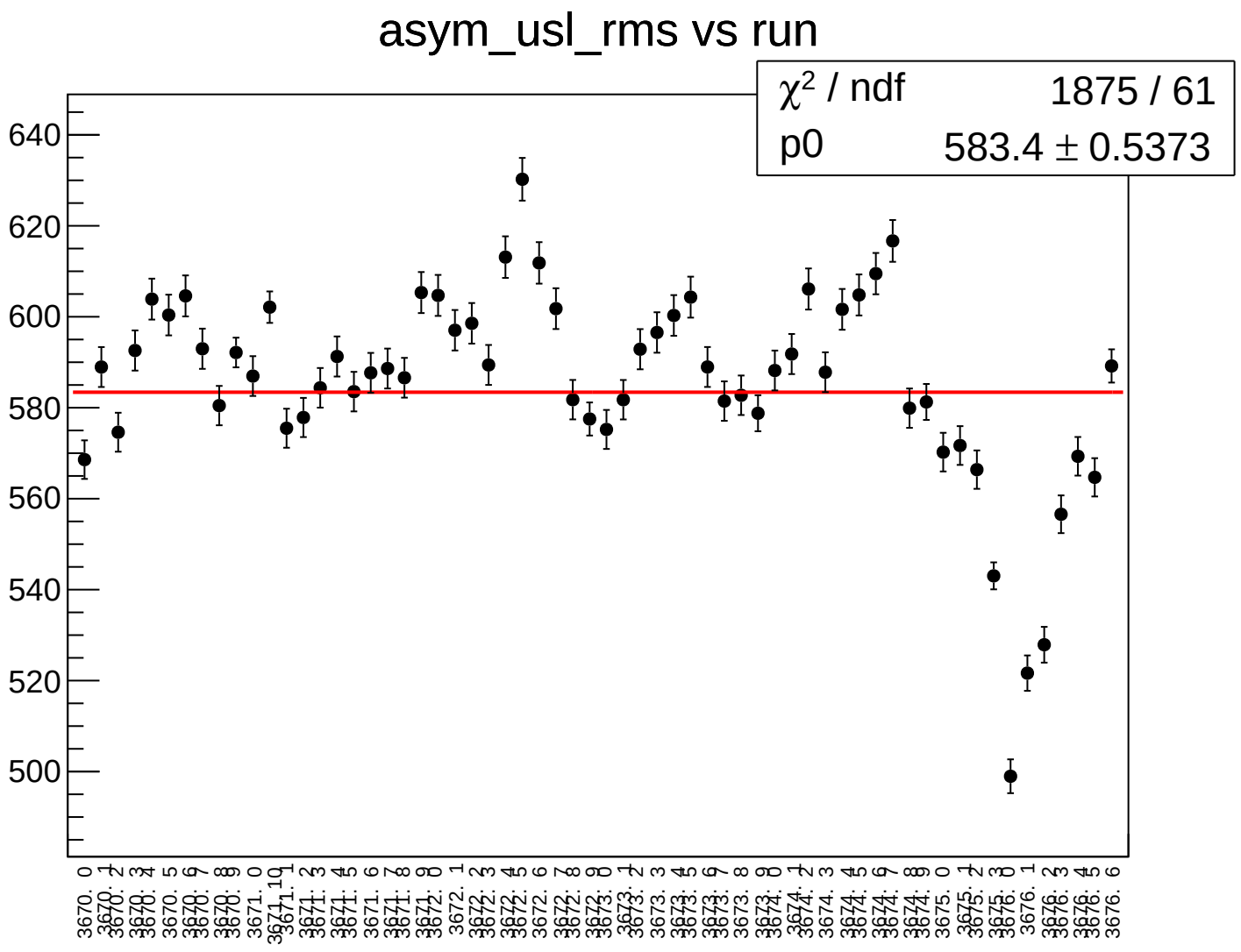

reg_asym_usl_rms vs run
χ² / ndf 76.31 / 61
p0 131.5 ± 0.121
136
135
134
133
132
131
130
129
128
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

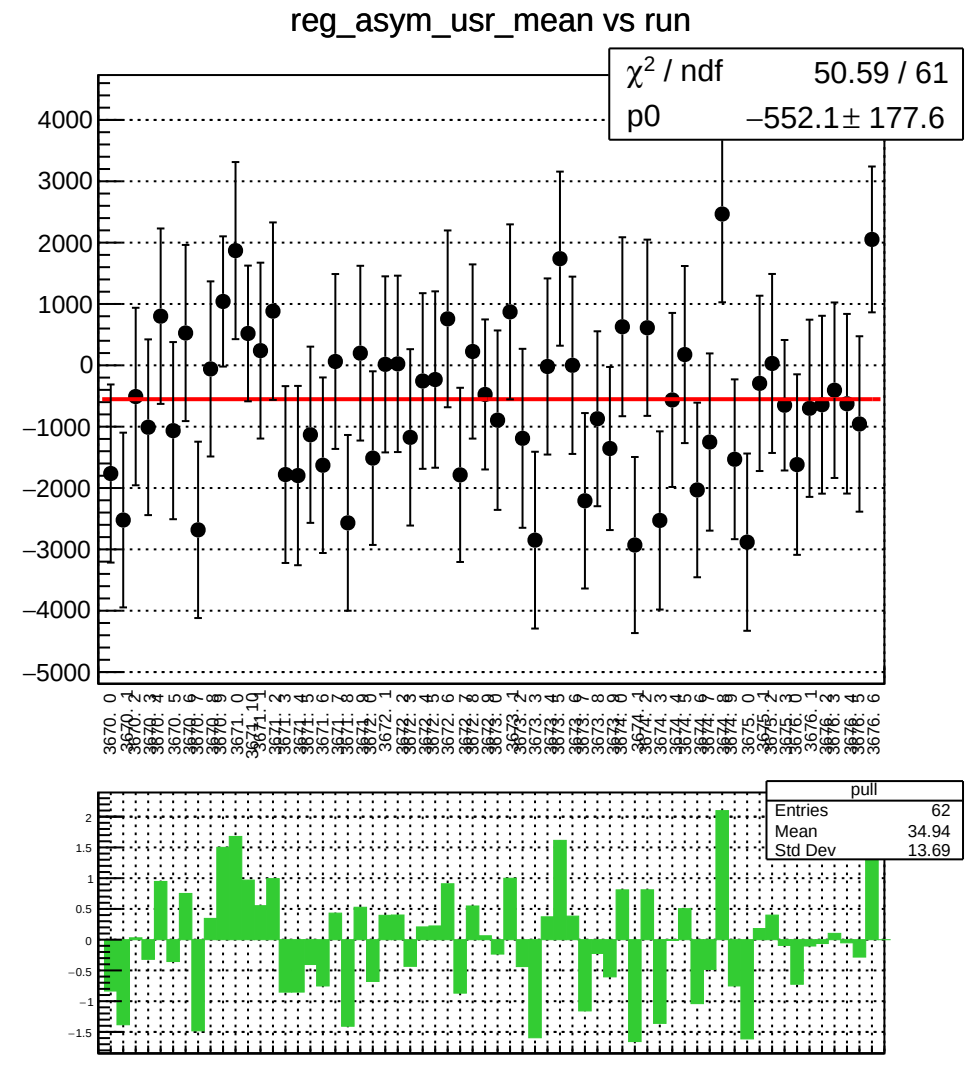

asym_usl_correction_mean vs run
χ² / ndf 56.05 / 61
p0 −480.6 ± 740.2
pull
Entries 62
Mean −133.4
Std Dev 156
pull1D
Entries 62
Mean 0.02101
Std Dev 0.9506

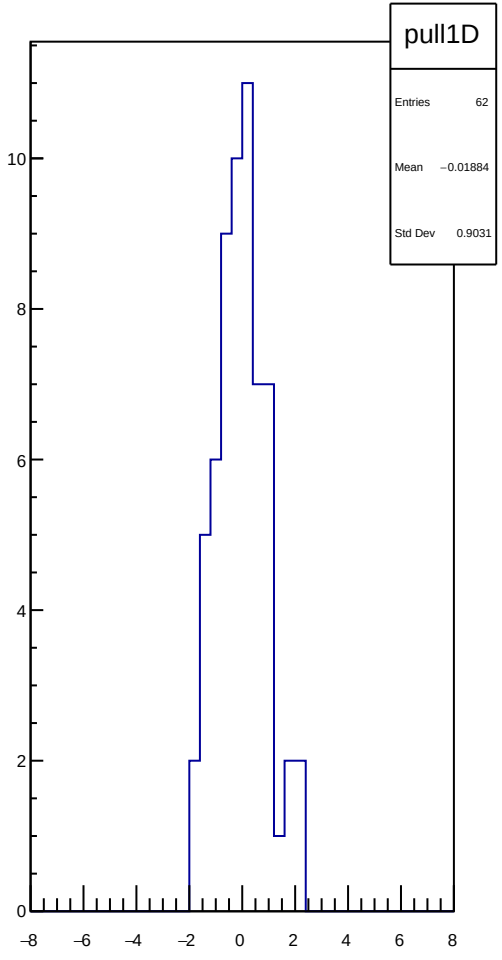

asym_usl_correction_rms vs run
χ² / ndf 2109 / 61
p0 568.3 ± 0.5234
620
600
580
560
540
520
500
480

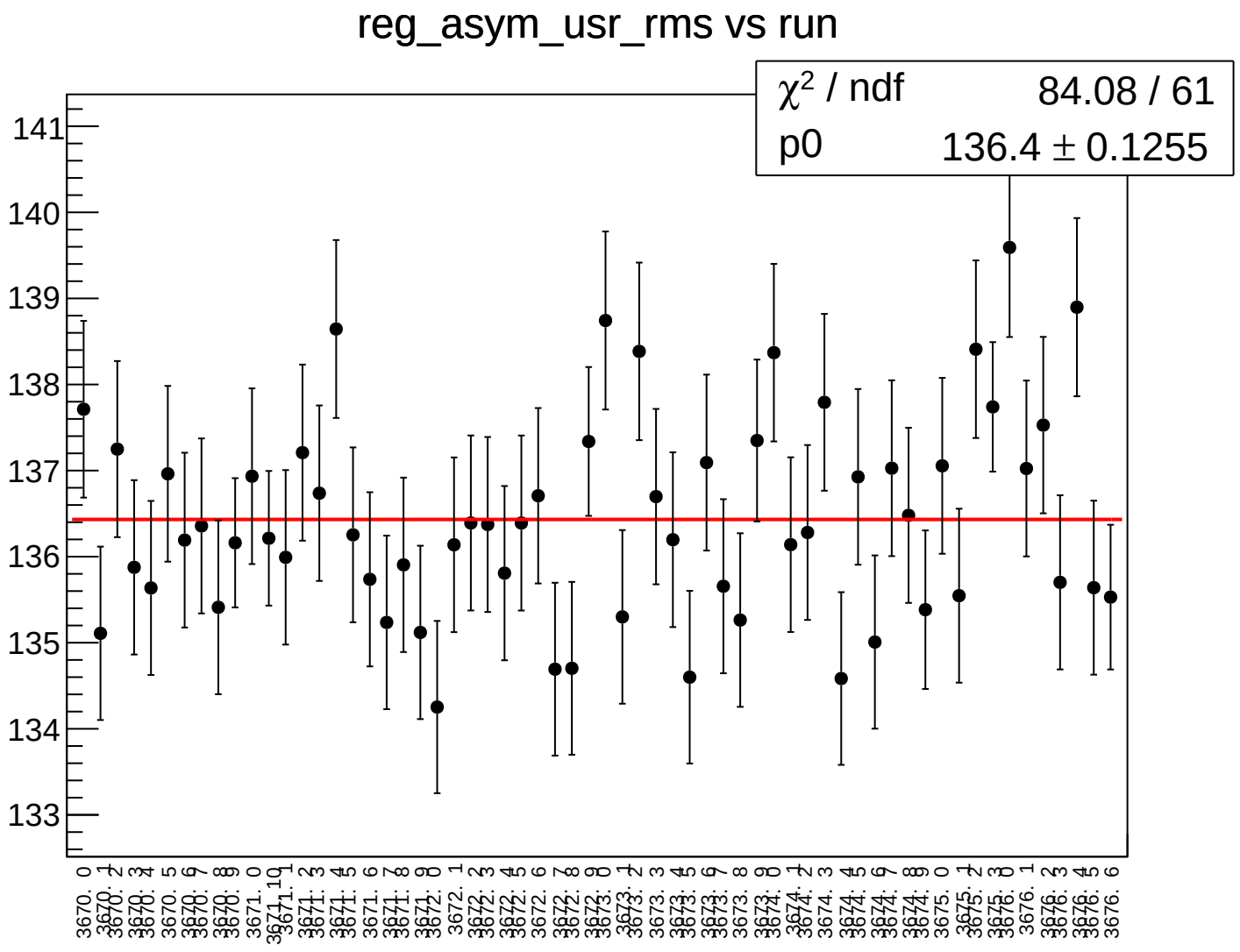

asym_usl_mean vs run
χ² / ndf 53.08 / 61
p0 88.32 ± 759.8
pull
Entries 62
Mean −122.9
Std Dev 144.7

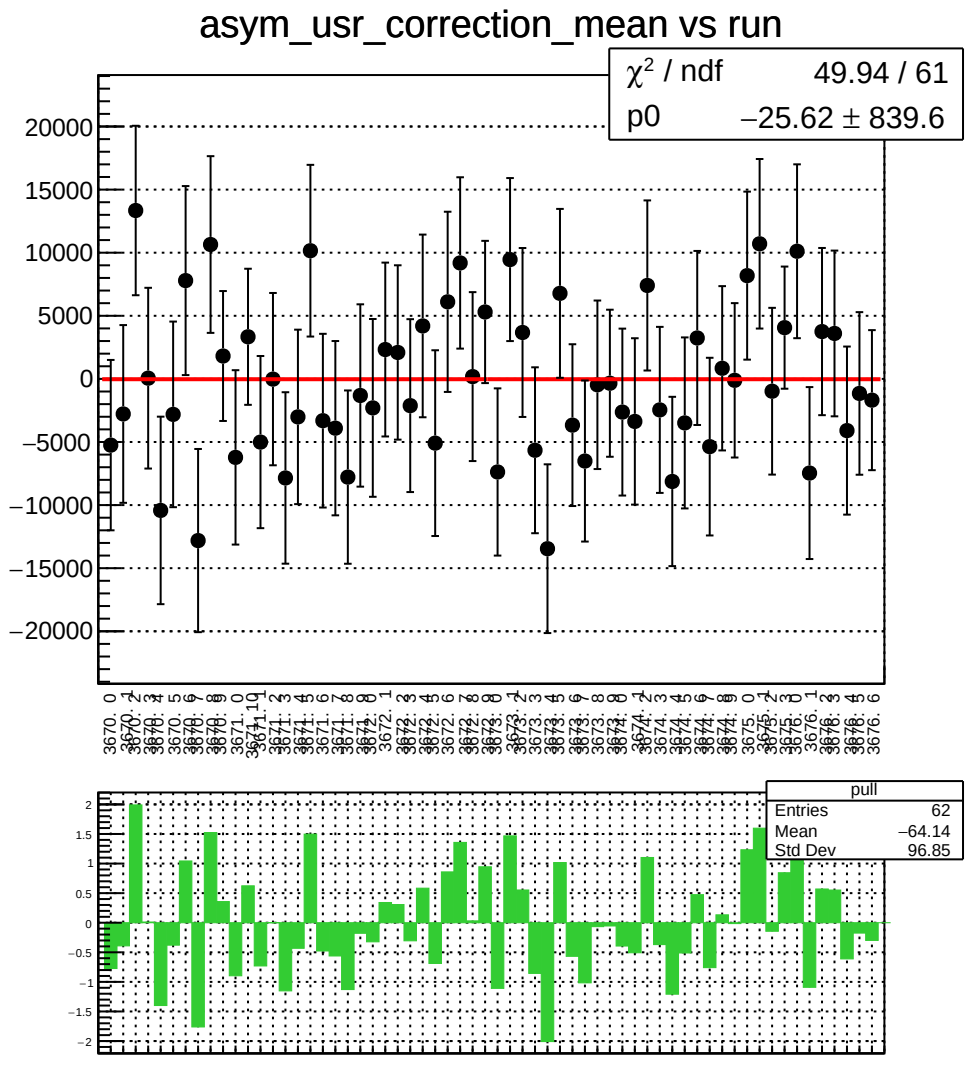

pull1D
Entries 62
Mean −0.02152
Std Dev 0.9251

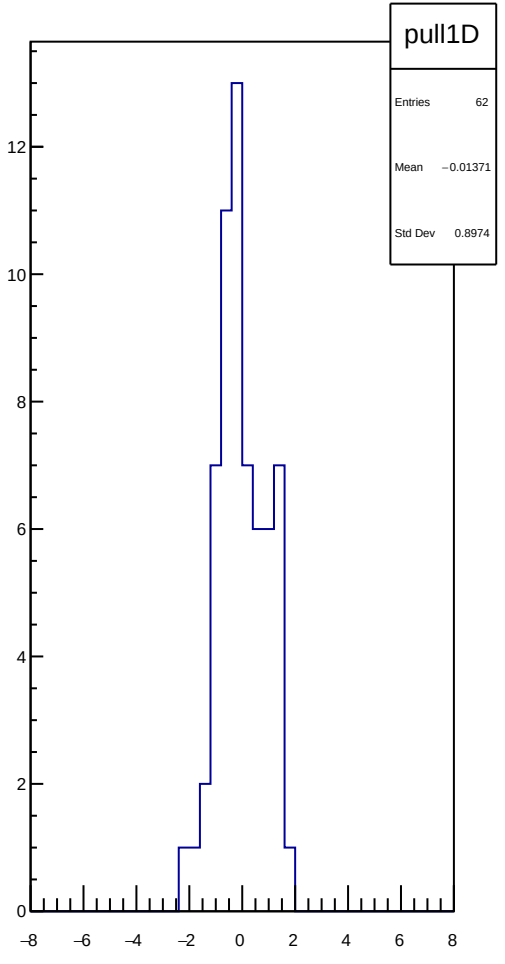

asym_usl_rms vs run
χ² / ndf 1875 / 61
p0 583.4 ± 0.5373
640
620
600
580
560
540
520
500
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

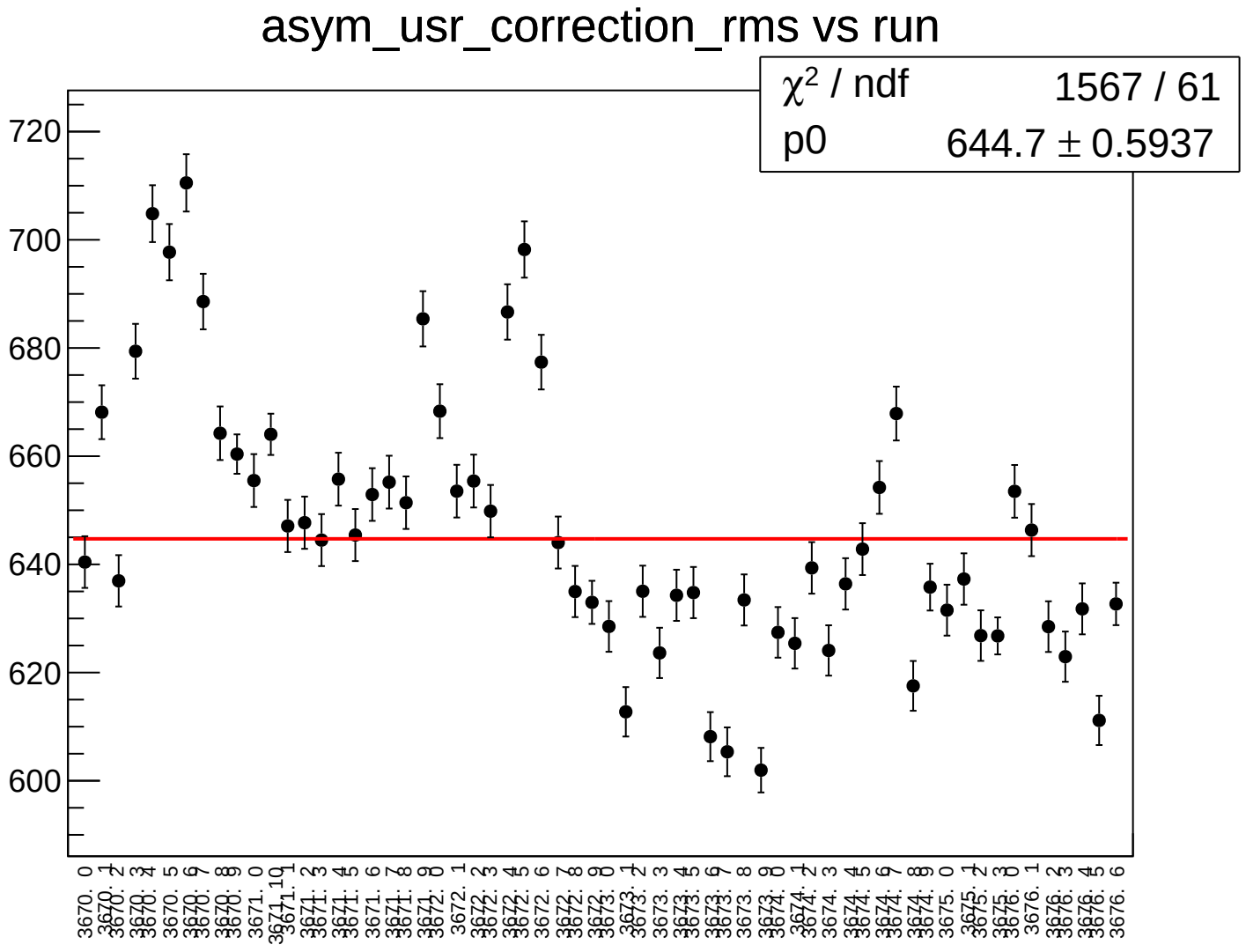

reg_asym_usr_mean vs run
χ^2 / ndf 50.59 / 61
p0 −552.1± 177.6
pull
Entries 62
Mean 34.94
Std Dev 13.69

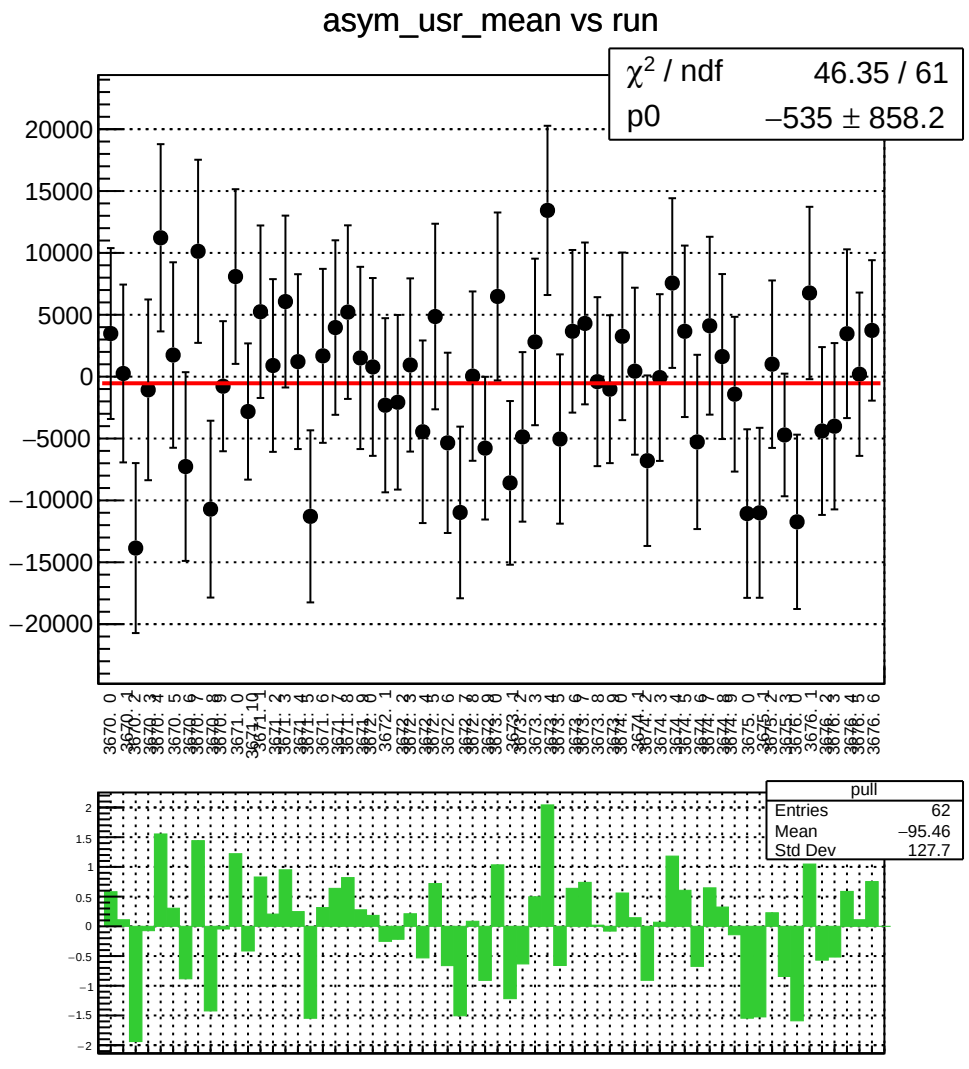

pull1D
Entries 62
Mean −0.01884
Std Dev 0.9031

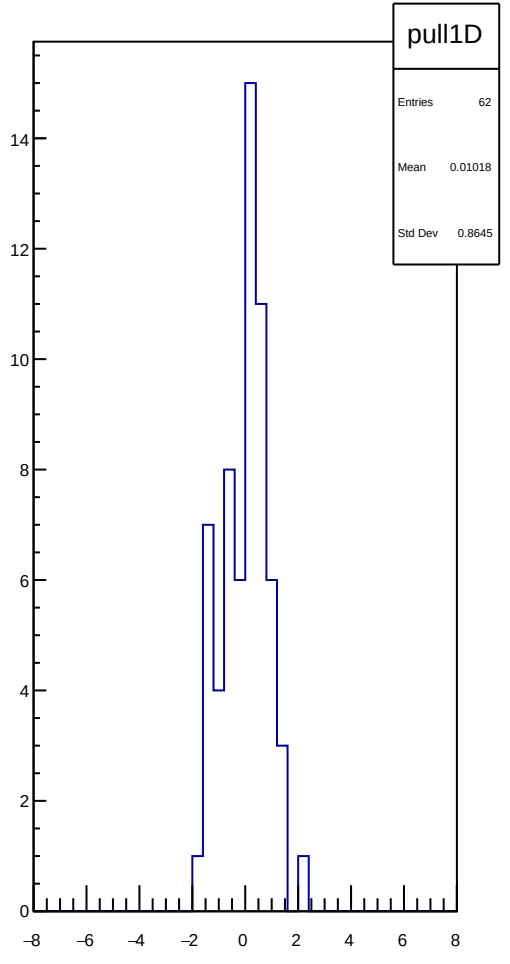

reg_asym_usr_rms vs run
χ² / ndf 84.08 / 61
p0 136.4 ± 0.1255
141
140
139
138
137
136
135
134
133
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 10
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

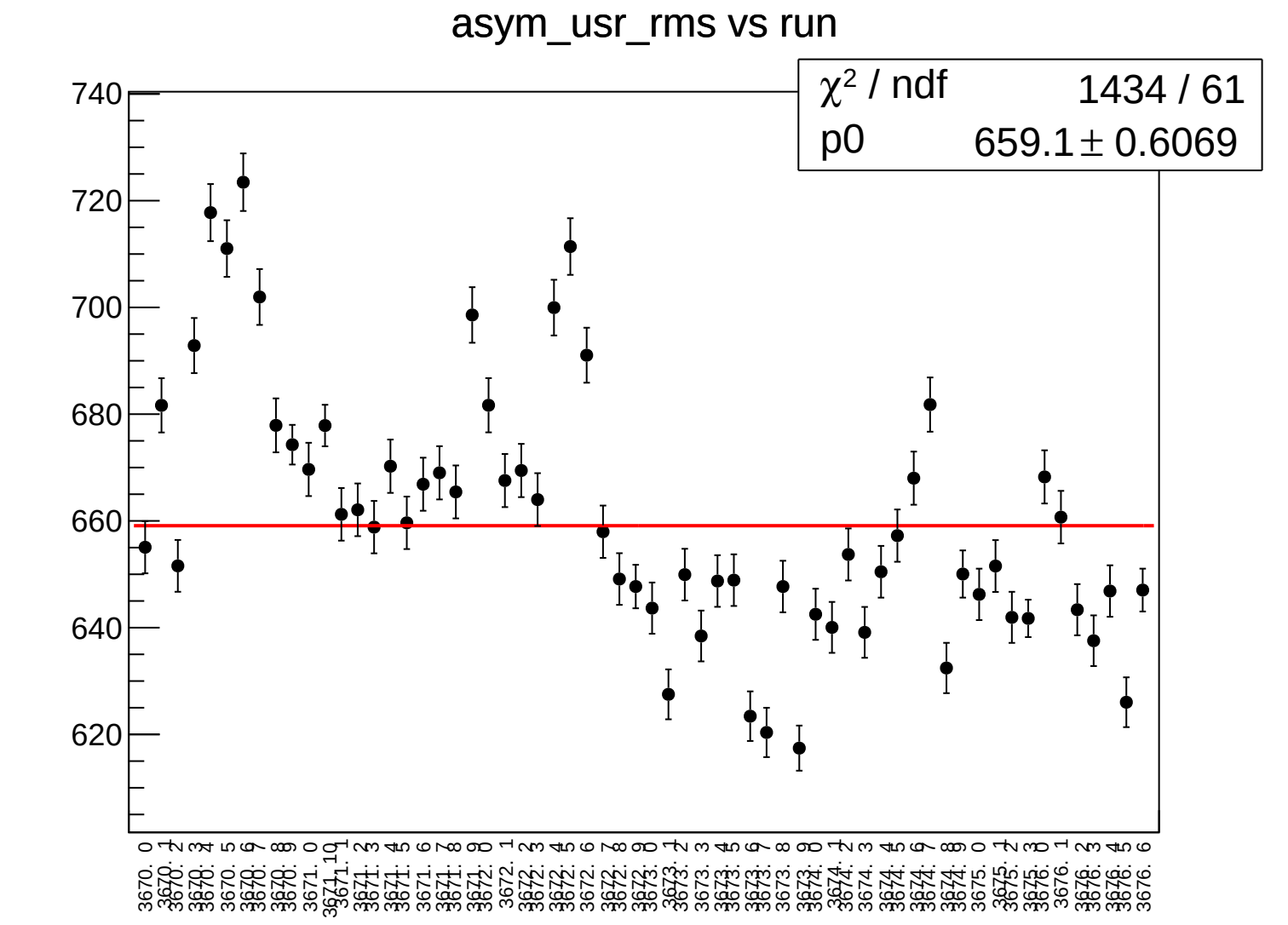

asym_usr_correction_mean vs run
χ² / ndf 49.94 / 61
p0 −25.62 ± 839.6
pull
Entries 62
Mean −64.14
Std Dev 96.85

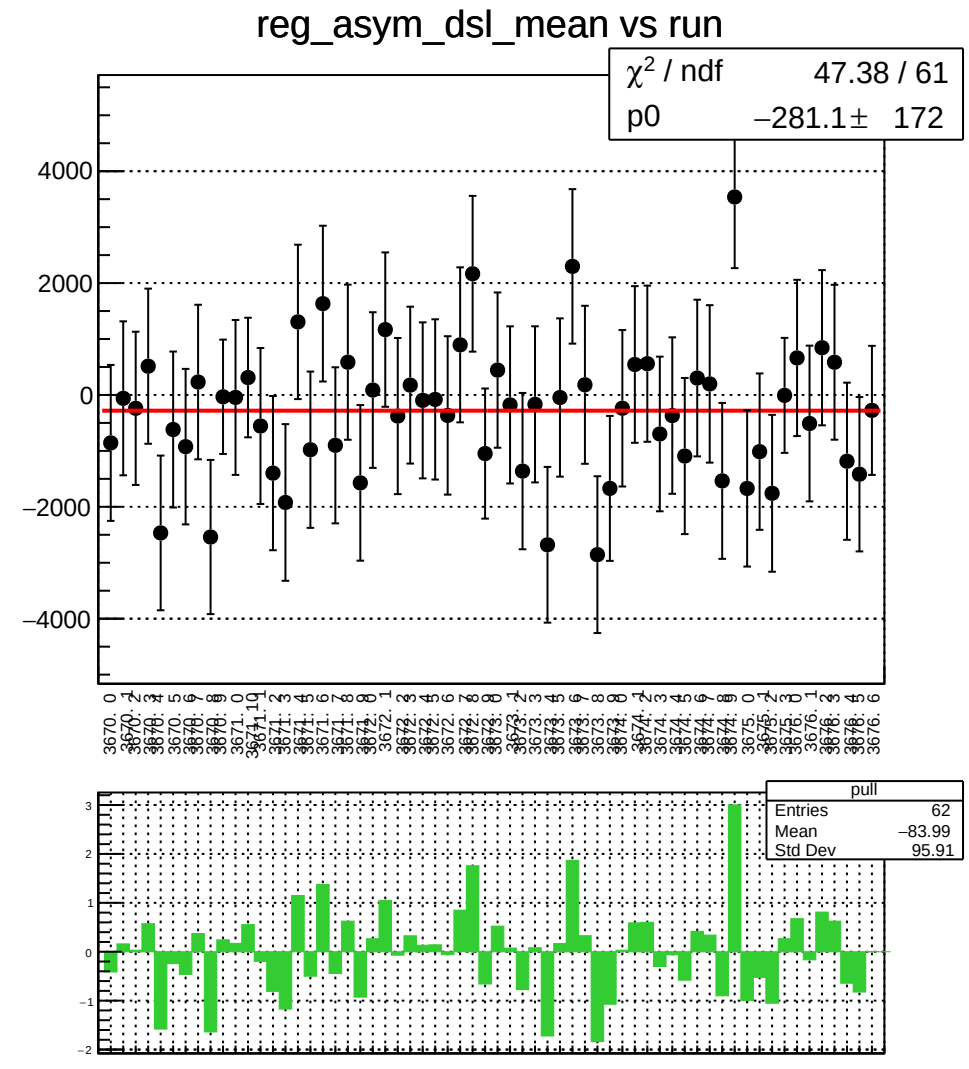

pull1D
Entries 62
Mean −0.01371
Std Dev 0.8974

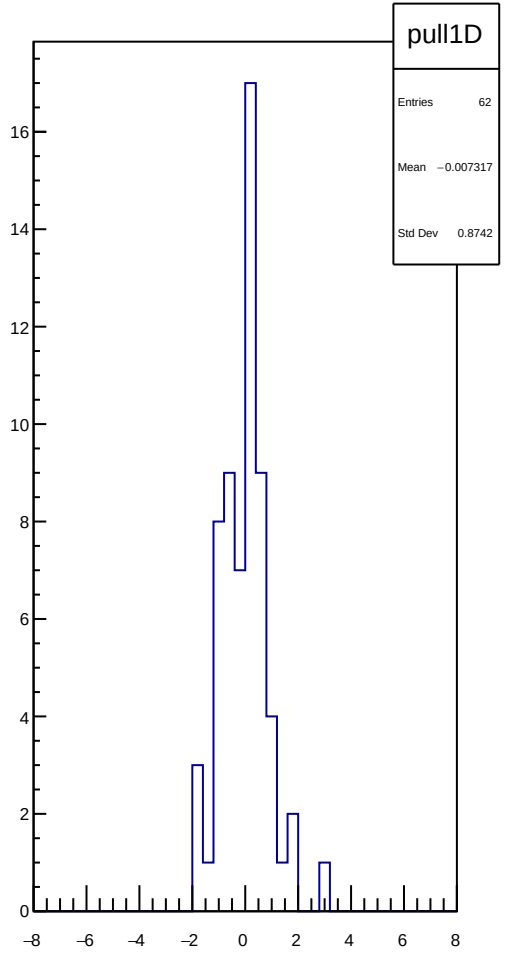

asym_usr_correction_rms vs run
χ² / ndf 1567 / 61
p0 644.7 ± 0.5937
720
700
680
660
640
620
600
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

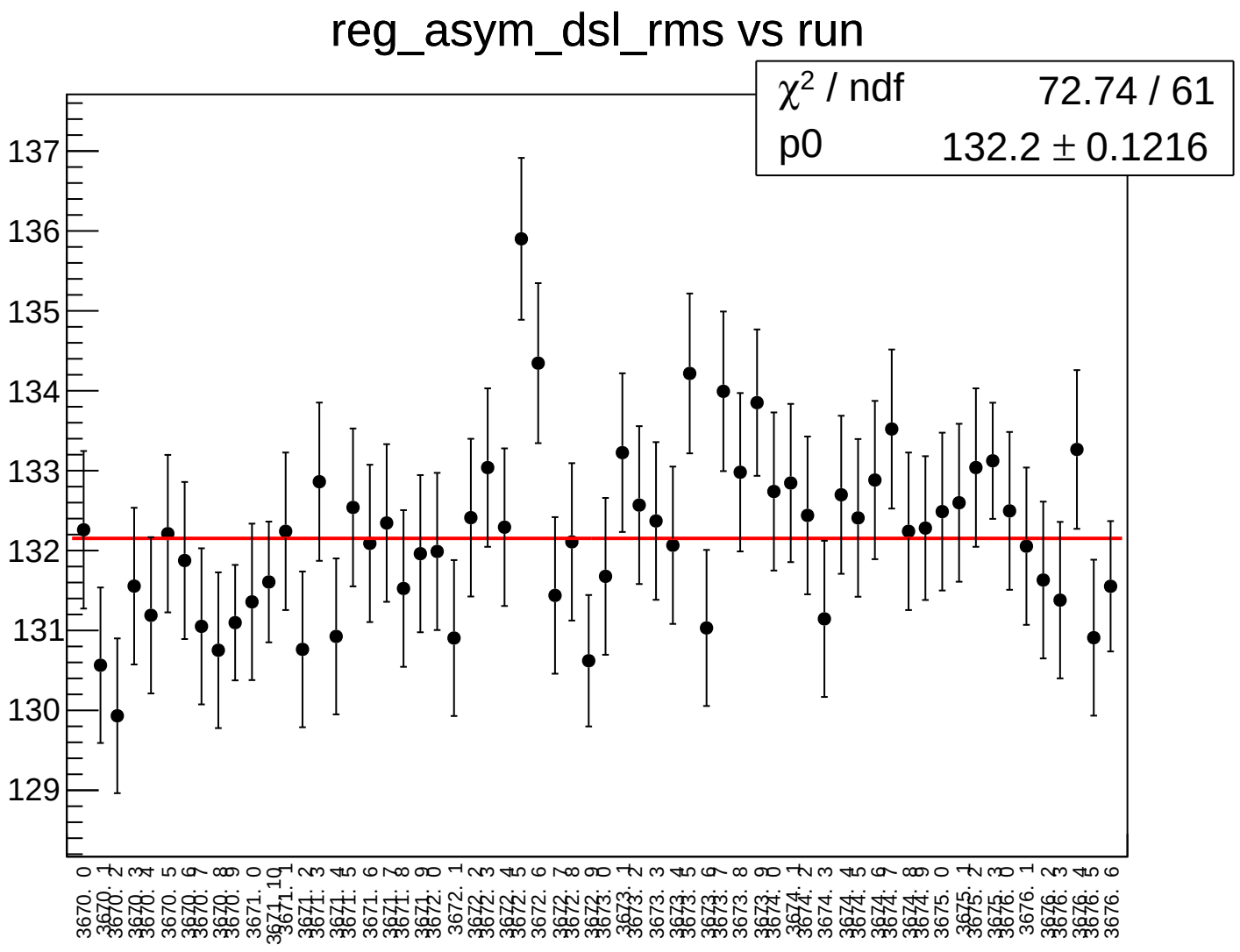

asym_usr_mean vs run
χ² / ndf 46.35 / 61
p0 −535 ± 858.2
pull
Entries 62
Mean −95.46
Std Dev 127.7

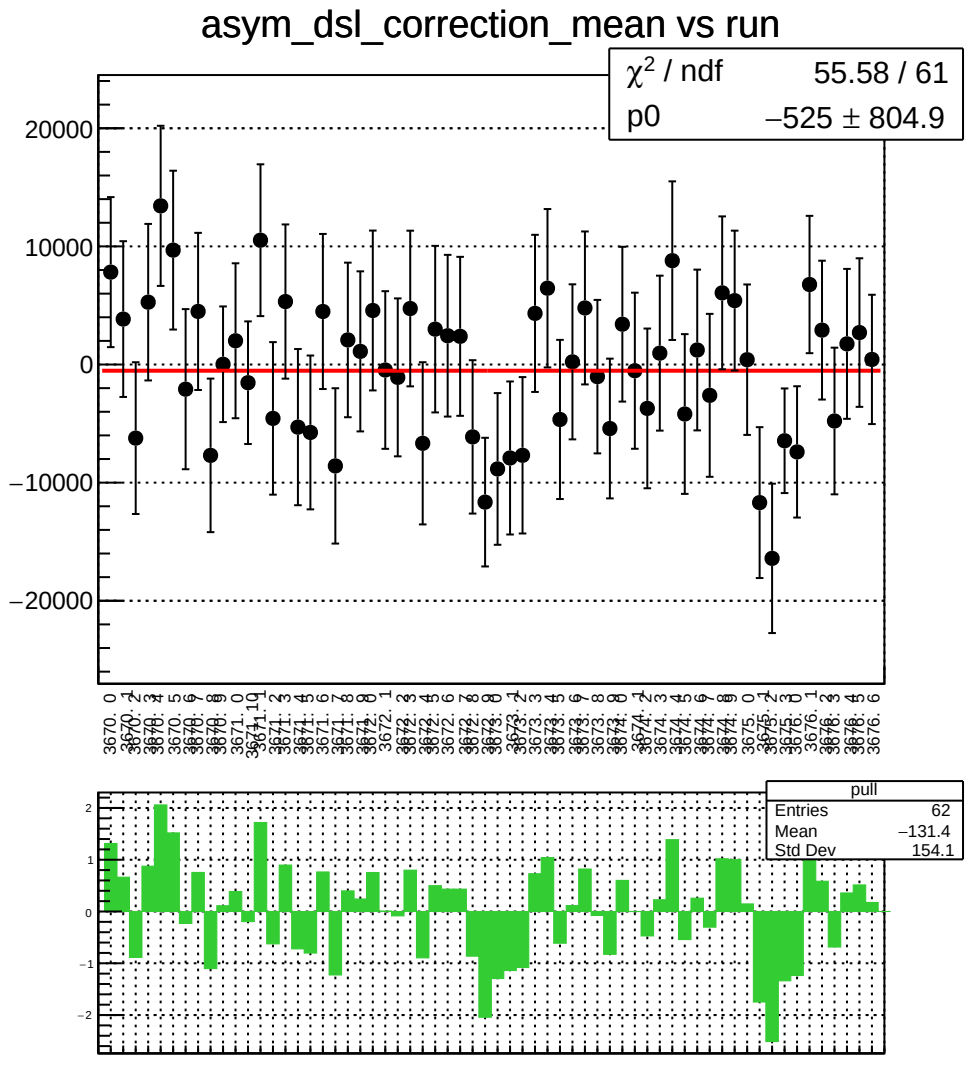

pull1D
Entries 62
Mean 0.01018
Std Dev 0.8645

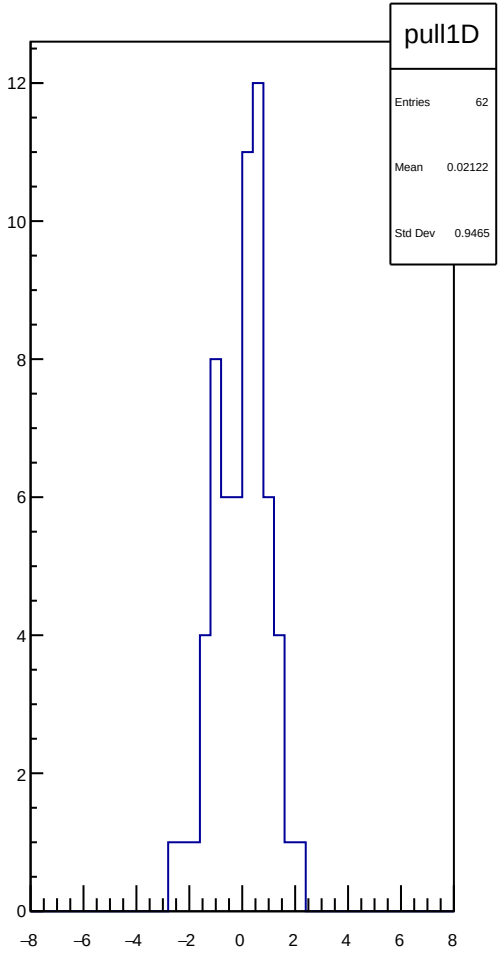

asym_usr_rms vs run
χ² / ndf 1434 / 61
p0 659.1 ± 0.6069
740
720
700
680
660
640
620

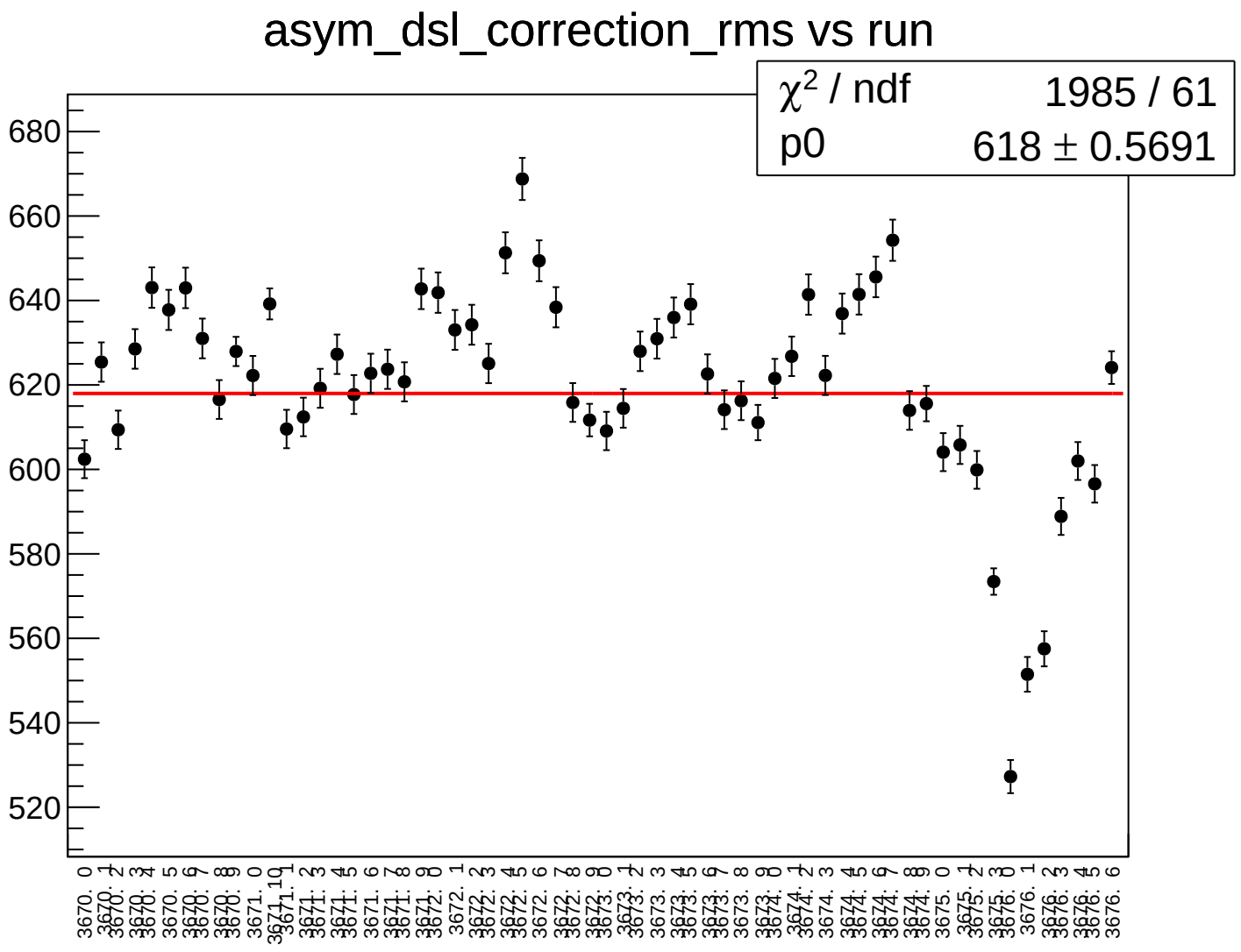

reg_asym_dsl_mean vs run
χ² / ndf 47.38 / 61
p0 −281.1± 172
pull
Entries 62
Mean −83.99
Std Dev 95.91

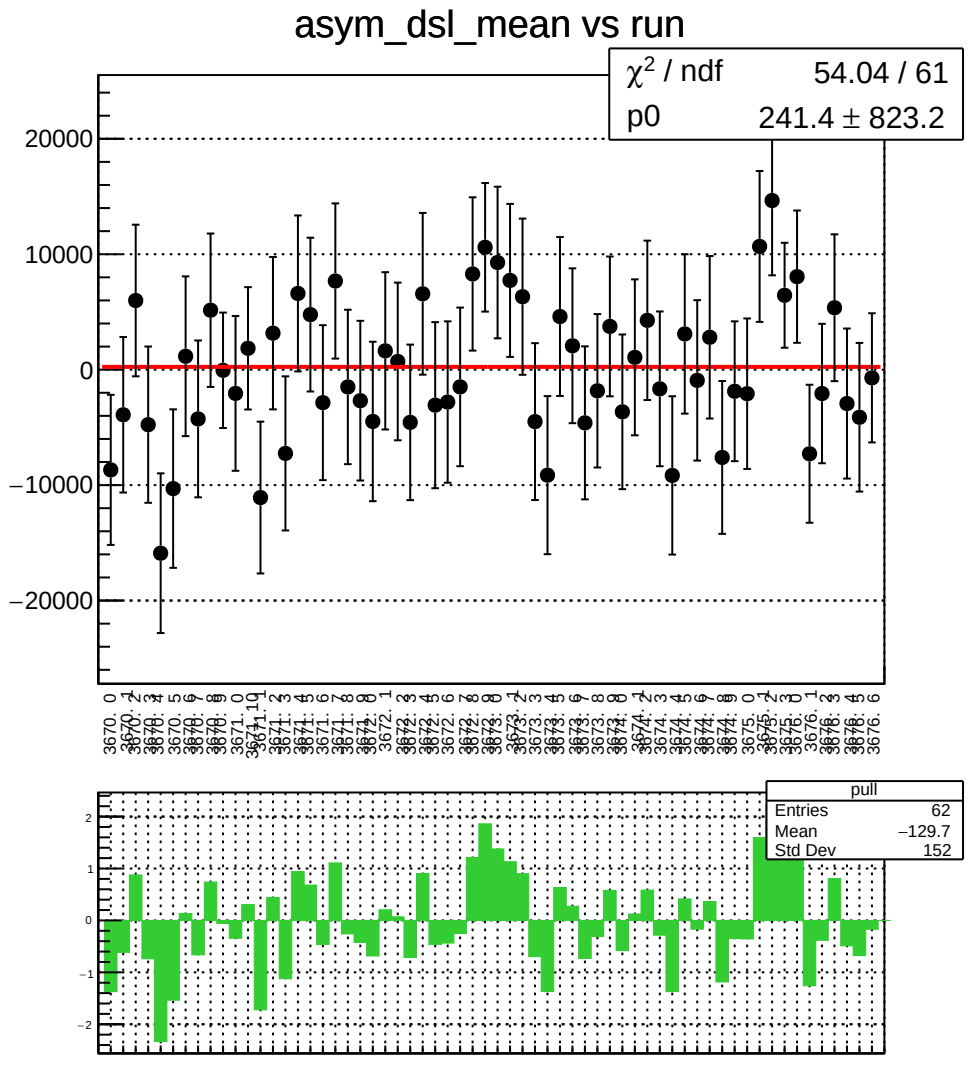

pull1D
Entries 62
Mean −0.007317
Std Dev 0.8742

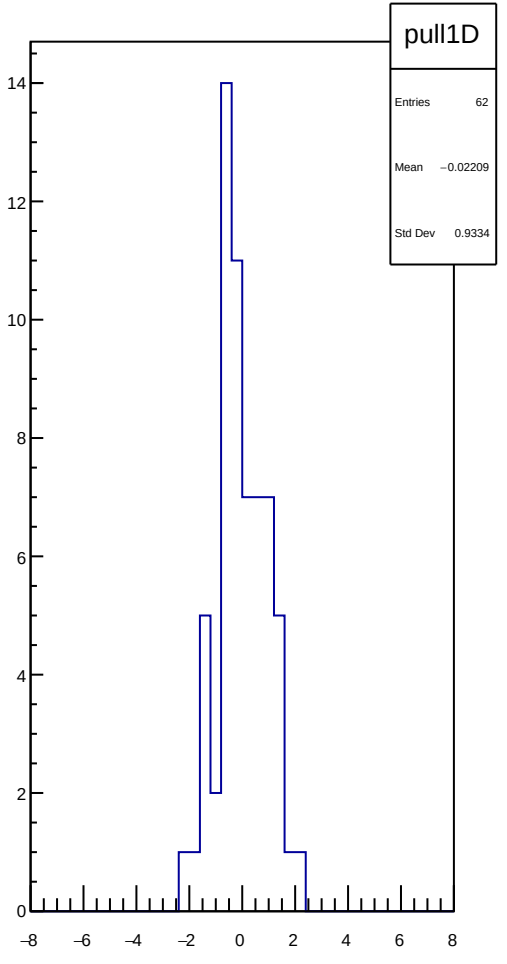

reg_asym_dsl_rms vs run
χ² / ndf 72.74 / 61
p0 132.2 ± 0.1216
137
136
135
134
133
132
131
130
129
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

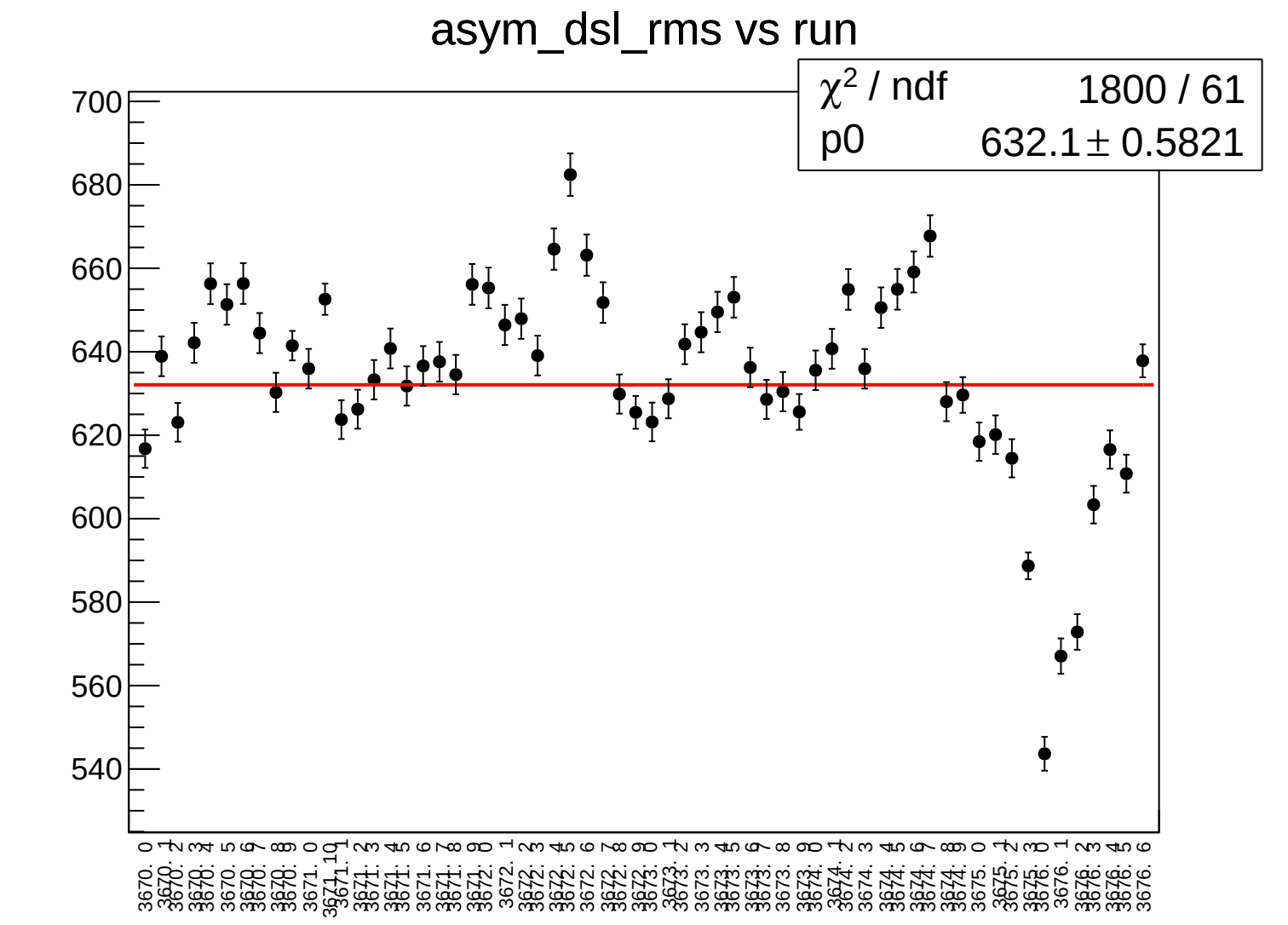

asym_dsl_correction_mean vs run
χ² / ndf 55.58 / 61
p0 −525 ± 804.9
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −131.4
Std Dev 154.1
2
1
0
−1
−2

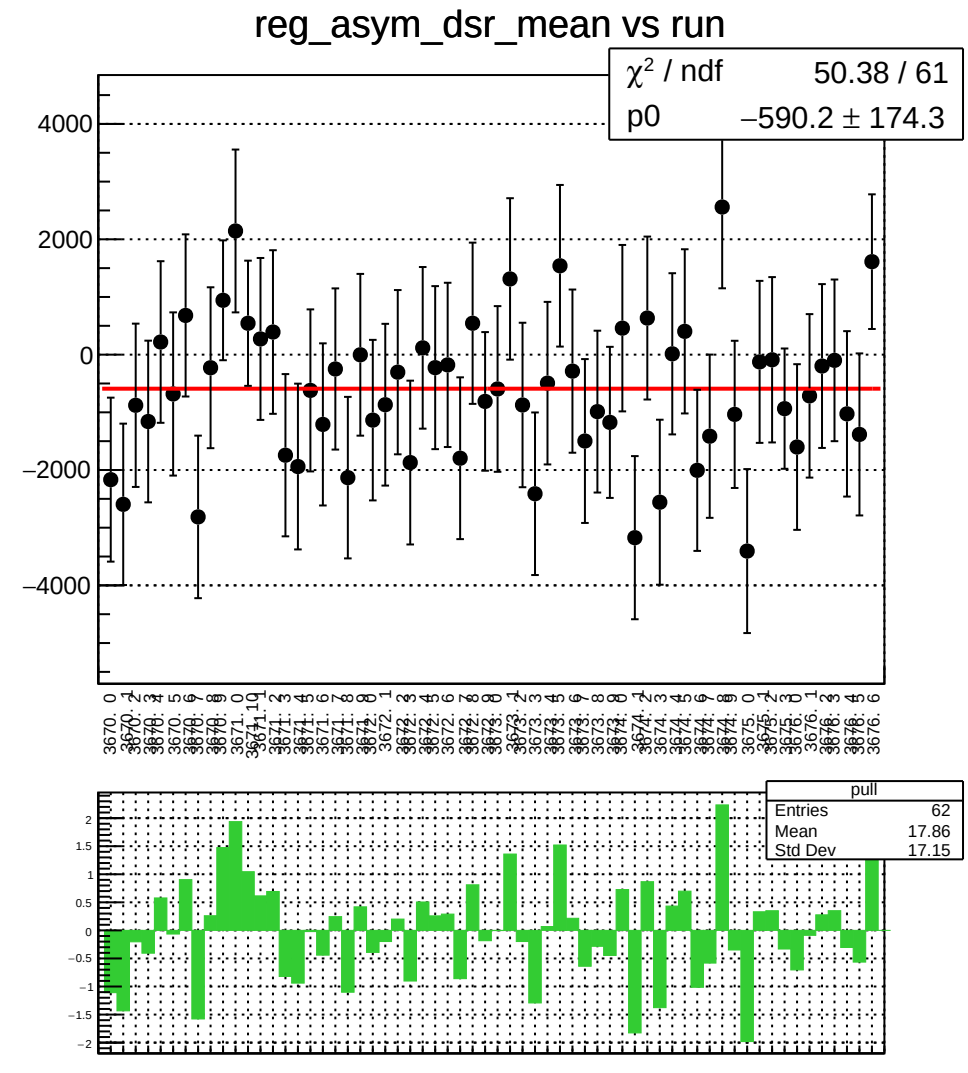

pull1D
Entries 62
Mean 0.02122
Std Dev 0.9465
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

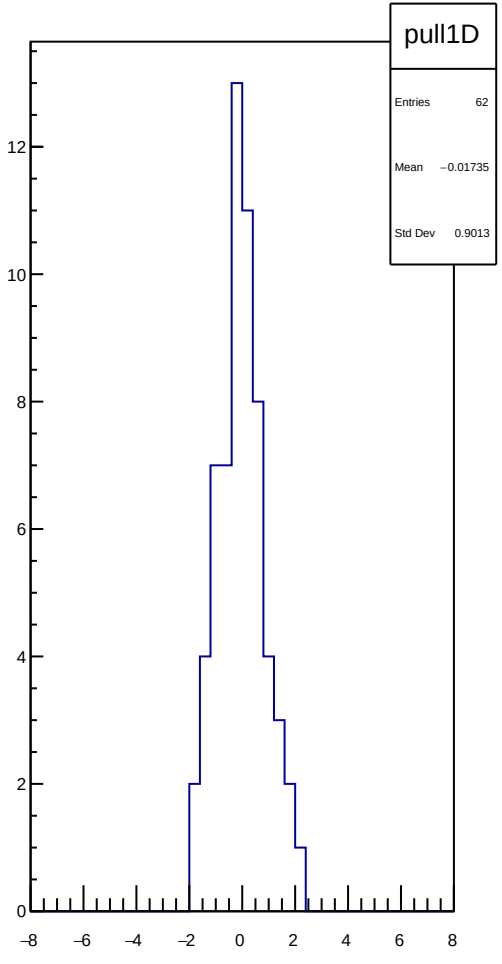

asym_dsl_correction_rms vs run
χ² / ndf 1985 / 61
p0 618 ± 0.5691
680
660
640
620
600
580
560
540
520

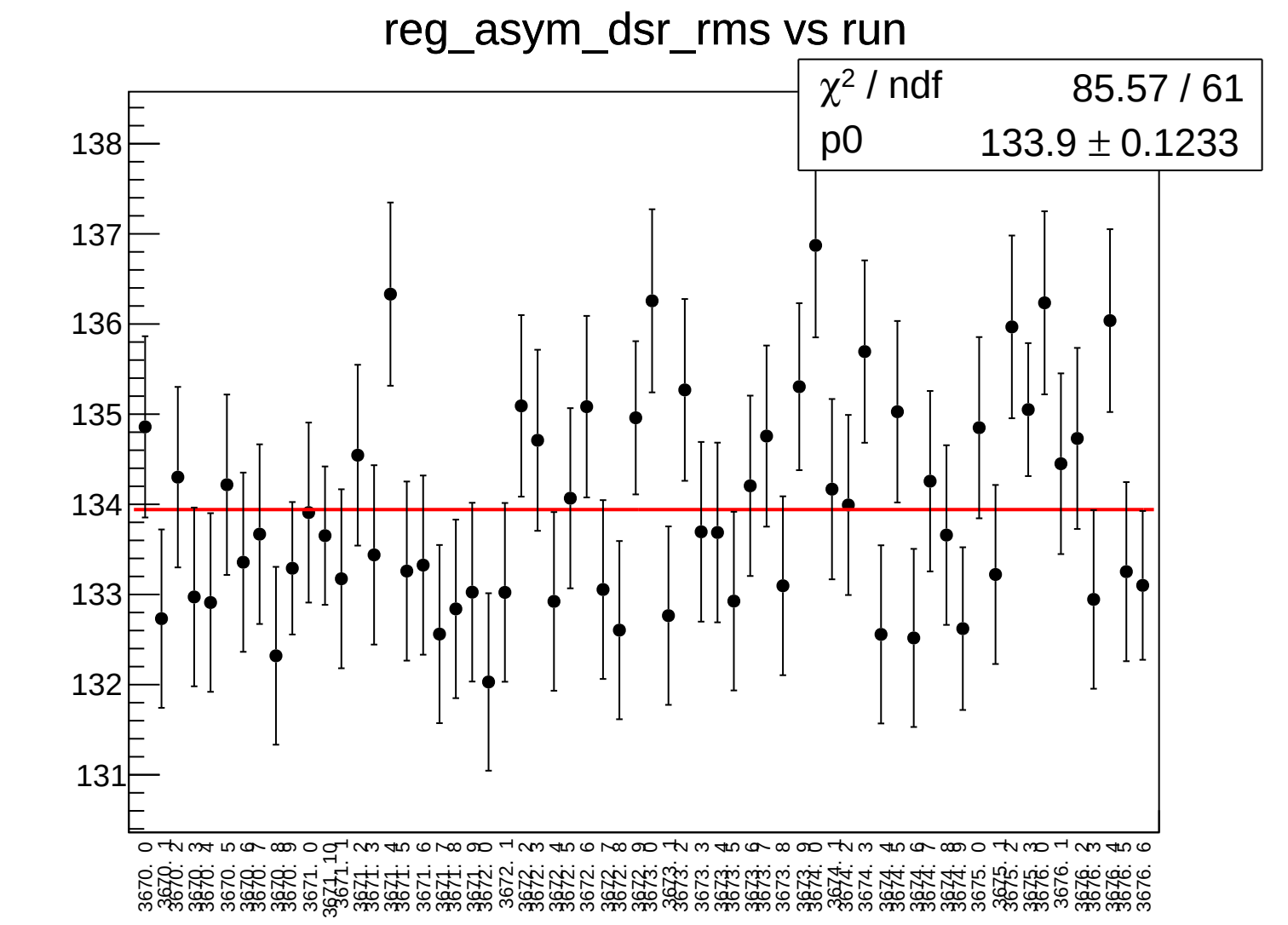

asym_dsl_mean vs run
χ² / ndf 54.04 / 61
p0 241.4 ± 823.2
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −129.7
Std Dev 152
2
1
0
−1
−2

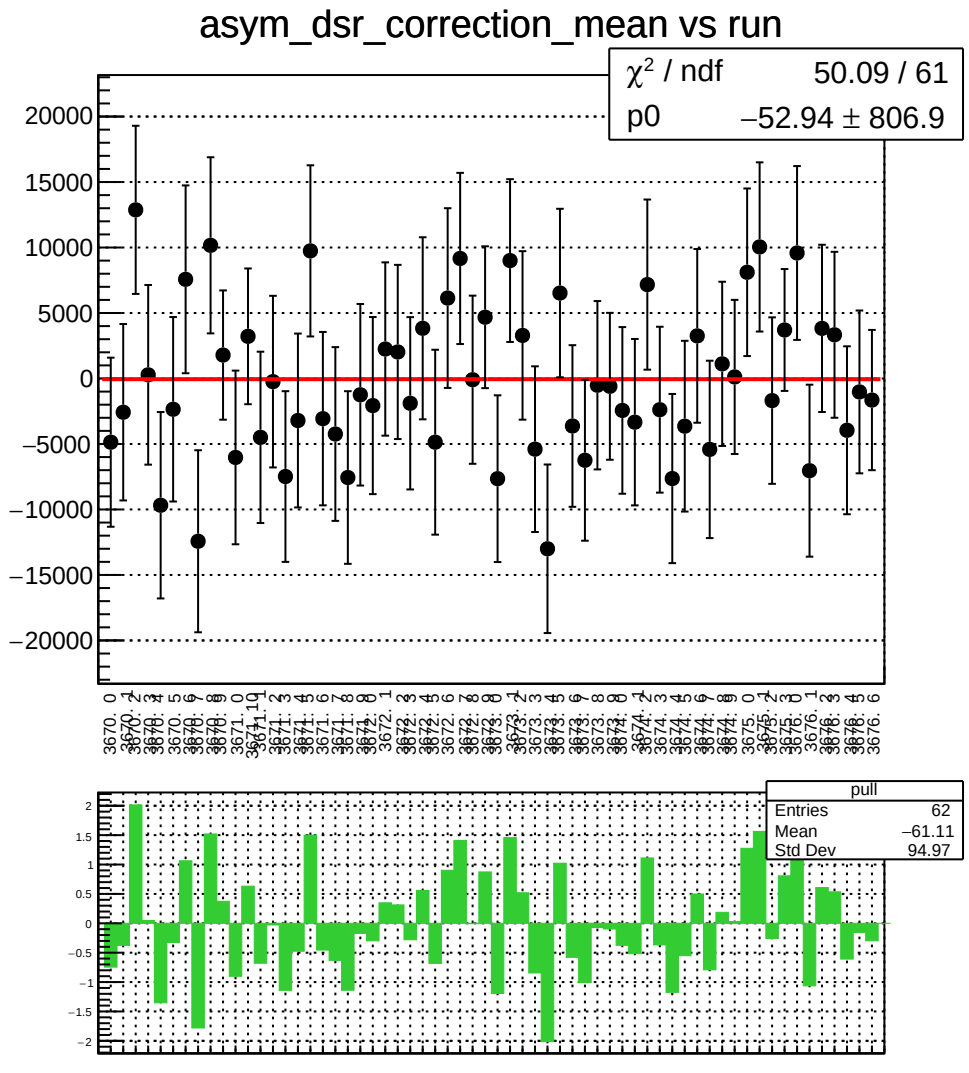

pull1D
Entries 62
Mean −0.02209
Std Dev 0.9334
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

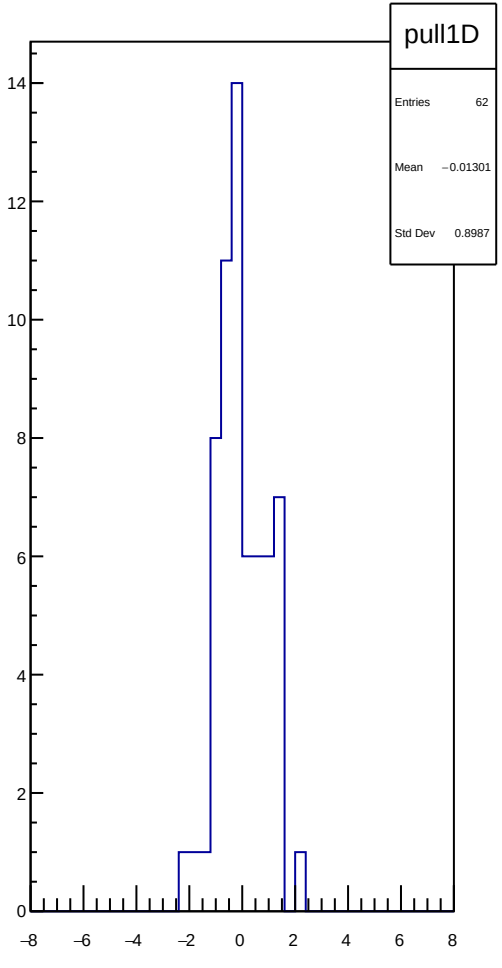

asym_dsl_rms vs run
χ² / ndf 1800 / 61
p0 632.1 ± 0.5821
700
680
660
640
620
600
580
560
540

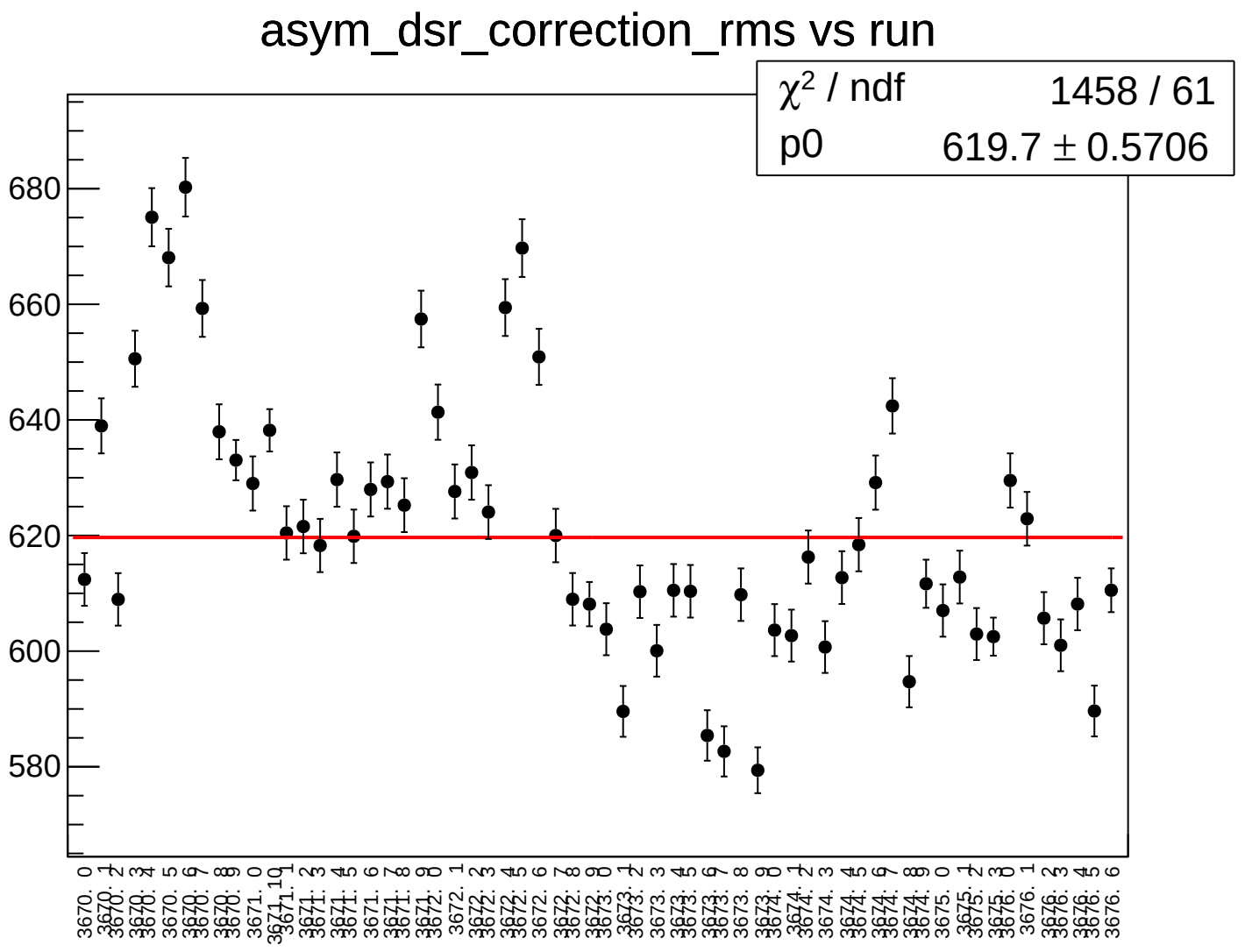

reg_asym_dsr_mean vs run
χ² / ndf 50.38 / 61
p0 −590.2 ± 174.3
pull
Entries 62
Mean 17.86
Std Dev 17.15

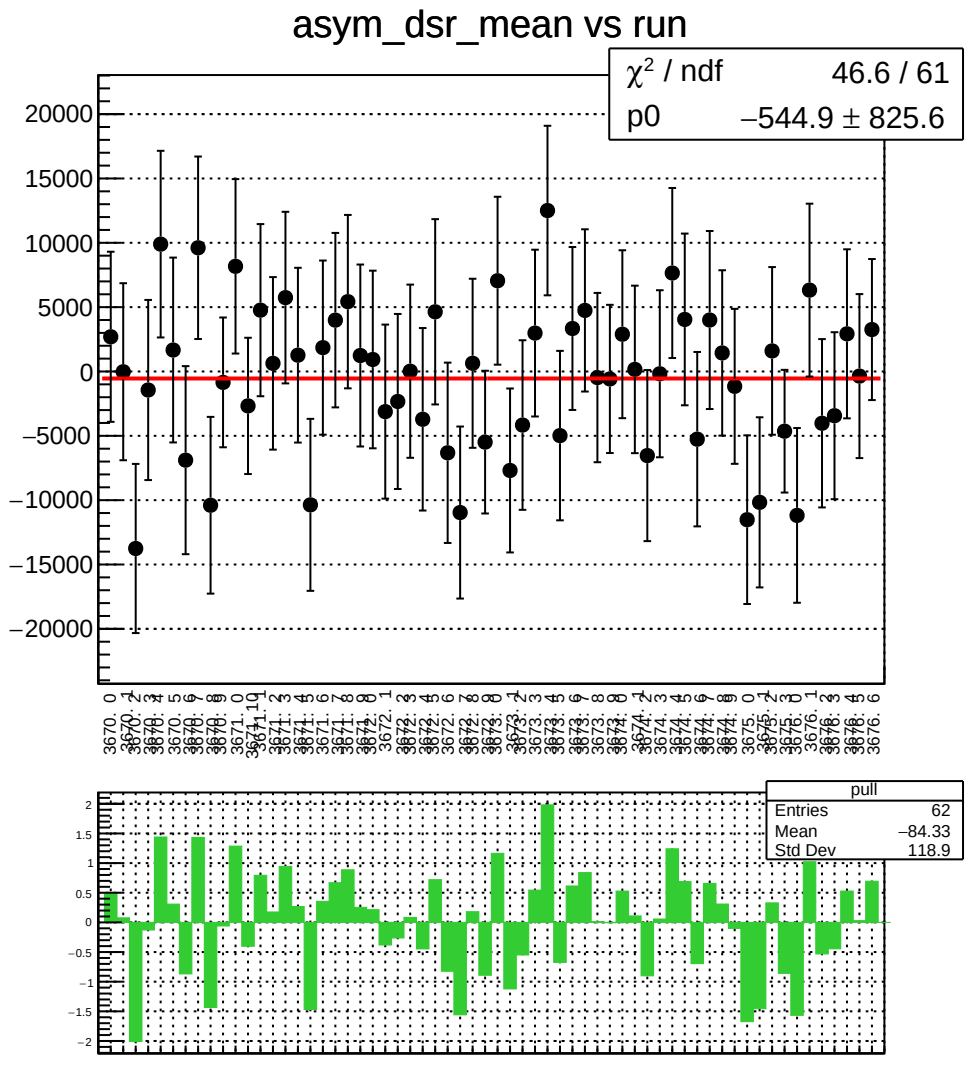

pull1D
Entries 62
Mean −0.01735
Std Dev 0.9013

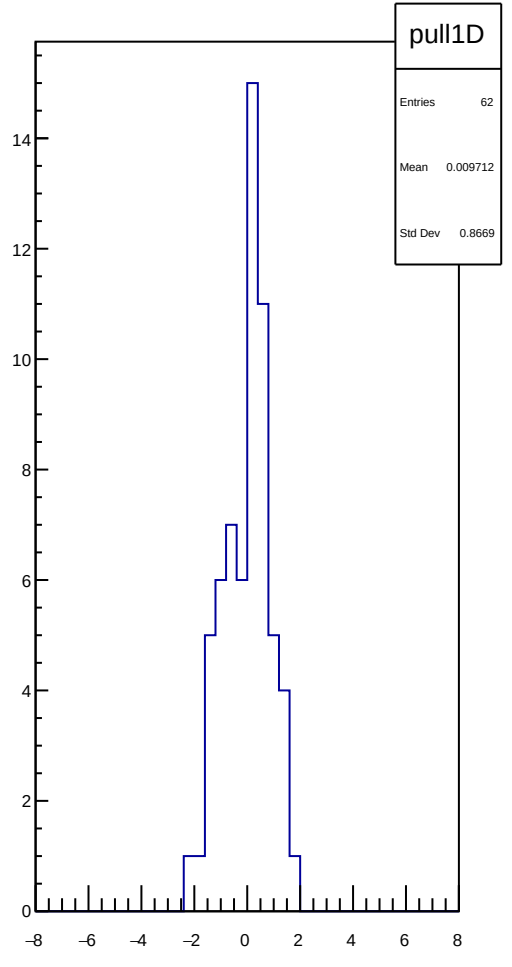

reg_asym_dsr_rms vs run
χ² / ndf 85.57 / 61
p0 133.9 ± 0.1233
138
137
136
135
134
133
132
131
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

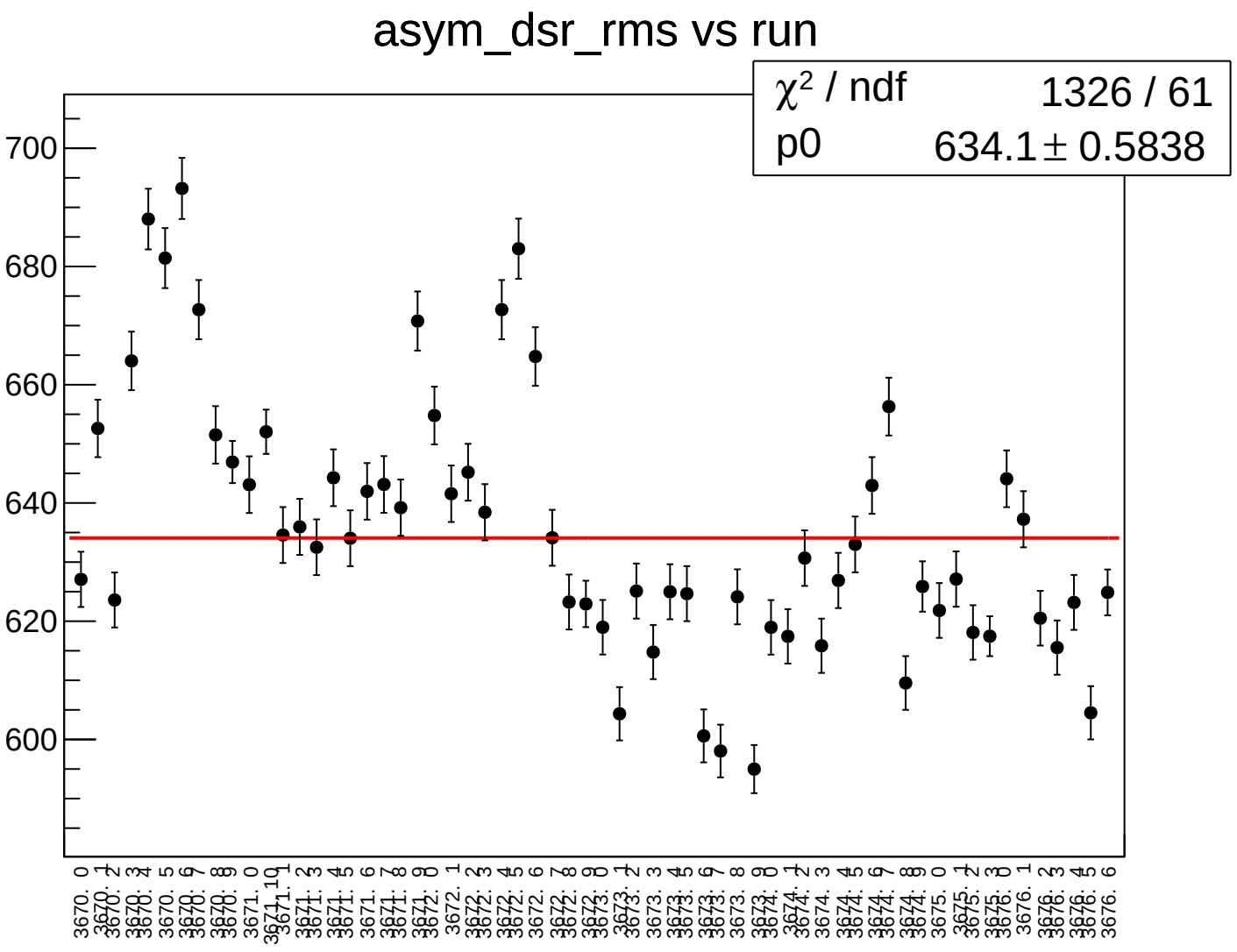

asym_dsr_correction_mean vs run
χ² / ndf 50.09 / 61
p0 −52.94 ± 806.9
pull
Entries 62
Mean −61.11
Std Dev 94.97

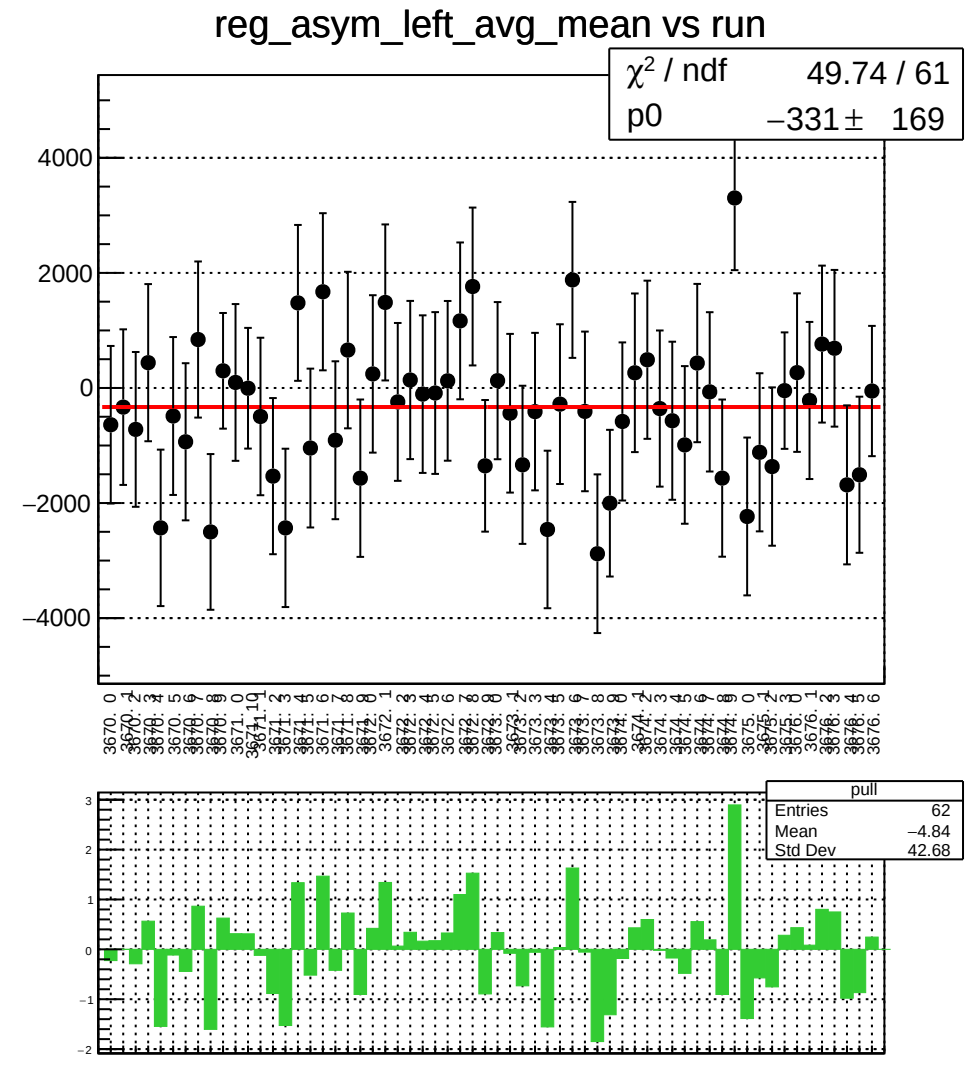

pull1D
Entries 62
Mean −0.01301
Std Dev 0.8987

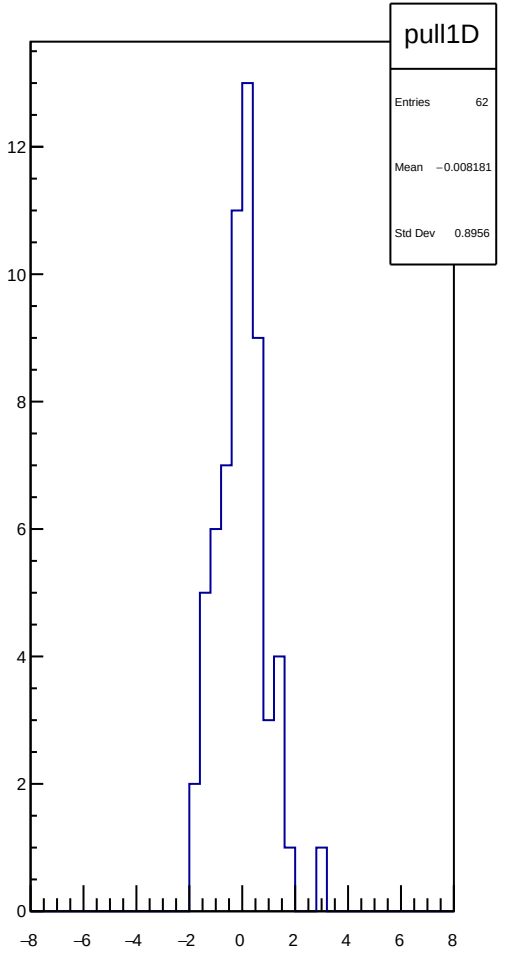

asym_dsr_correction_rms vs run
χ² / ndf 1458 / 61
p0 619.7 ± 0.5706
680
660
640
620
600
580
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

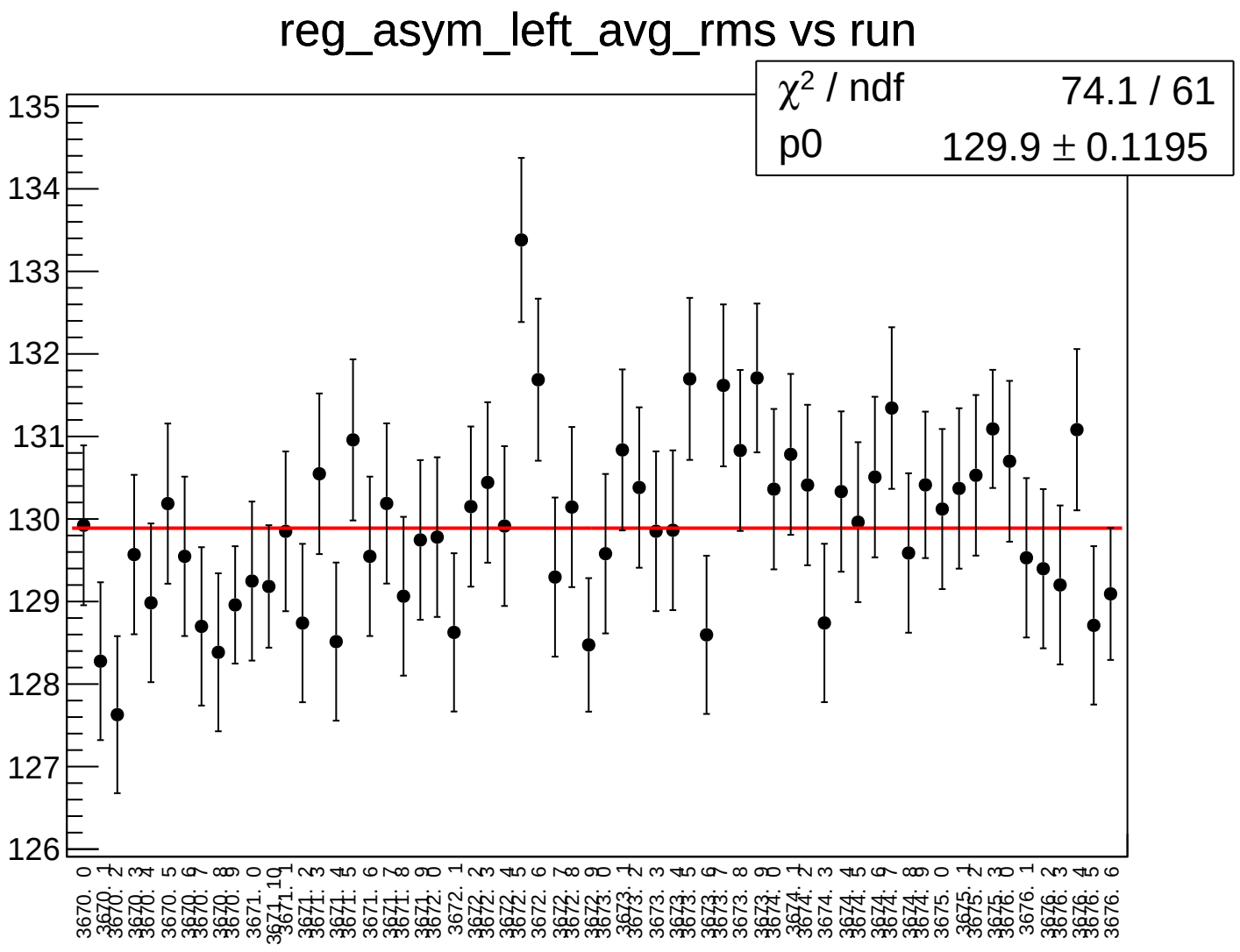

asym_dsr_mean vs run
χ² / ndf 46.6 / 61
p0 −544.9 ± 825.6
pull
Entries 62
Mean −84.33
Std Dev 118.9

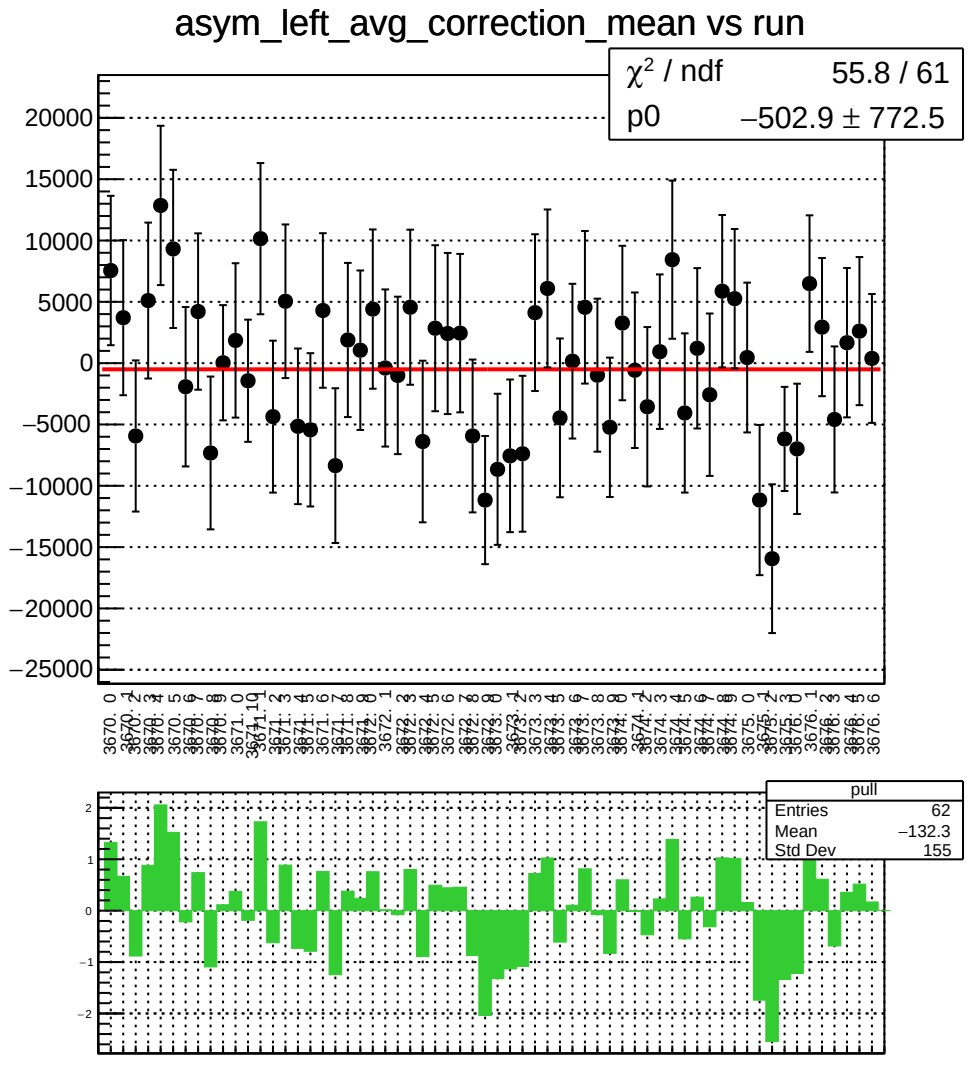

pull1D
Entries 62
Mean 0.009712
Std Dev 0.8669

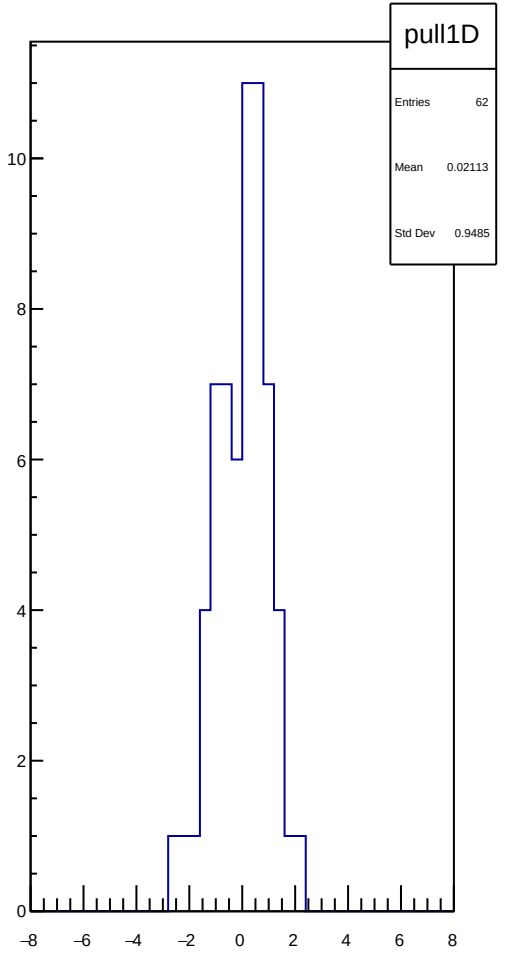

asym_dsr_rms vs run
χ² / ndf 1326 / 61
p0 634.1 ± 0.5838
700
680
660
640
620
600

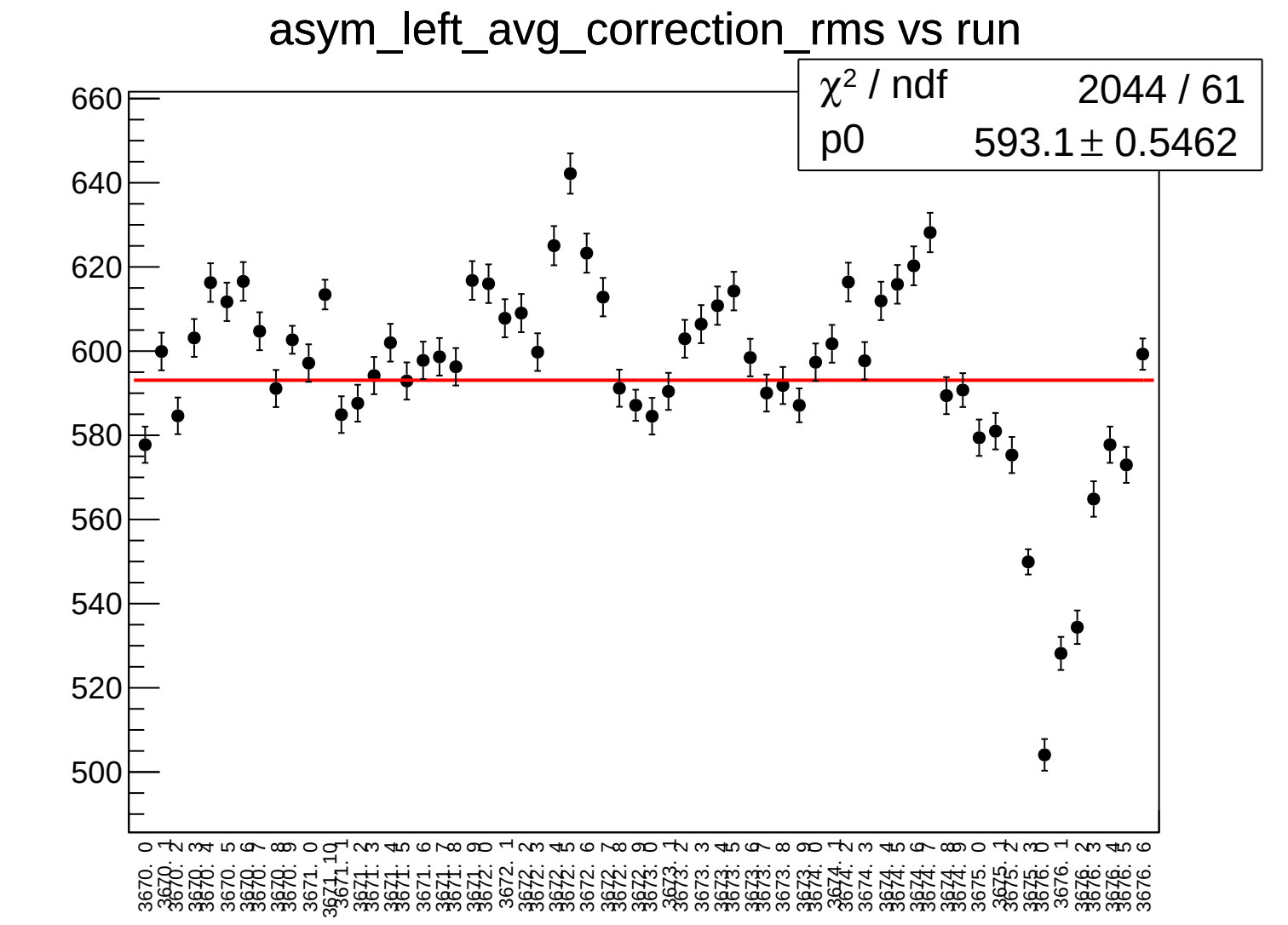

reg_asym_left_avg_mean vs run
χ² / ndf 49.74 / 61
p0 −331 ± 169
4000
2000
0
−2000
−4000
pull
Entries 62
Mean −4.84
Std Dev 42.68
3
2
1
0
−1
−2


pull1D
Entries 62
Mean −0.008181
Std Dev 0.8956
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_left_avg_rms vs run
χ² / ndf 74.1 / 61
p0 129.9 ± 0.1195
135
134
133
132
131
130
129
128
127
126
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6


asym_left_avg_correction_mean vs run
χ² / ndf 55.8 / 61
p0 −502.9 ± 772.5
pull
Entries 62
Mean −132.3
Std Dev 155


pull1D
Entries 62
Mean 0.02113
Std Dev 0.9485


asym_left_avg_correction_rms vs run
χ² / ndf 2044 / 61
p0 593.1 ± 0.5462
660
640
620
600
580
560
540
520
500
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
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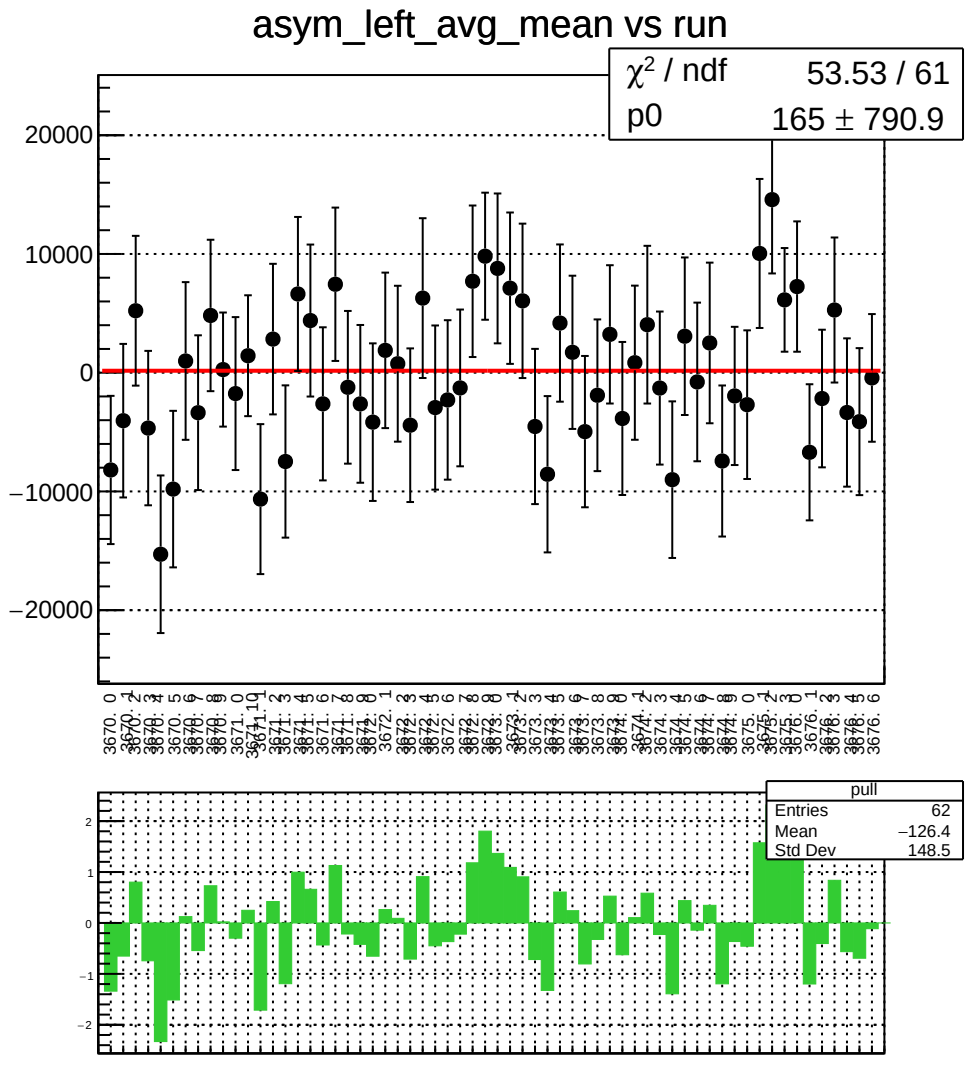
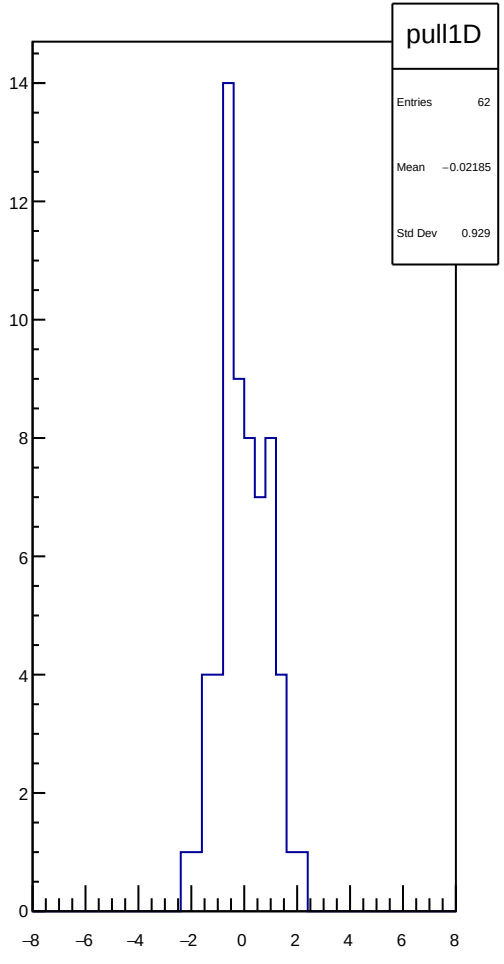
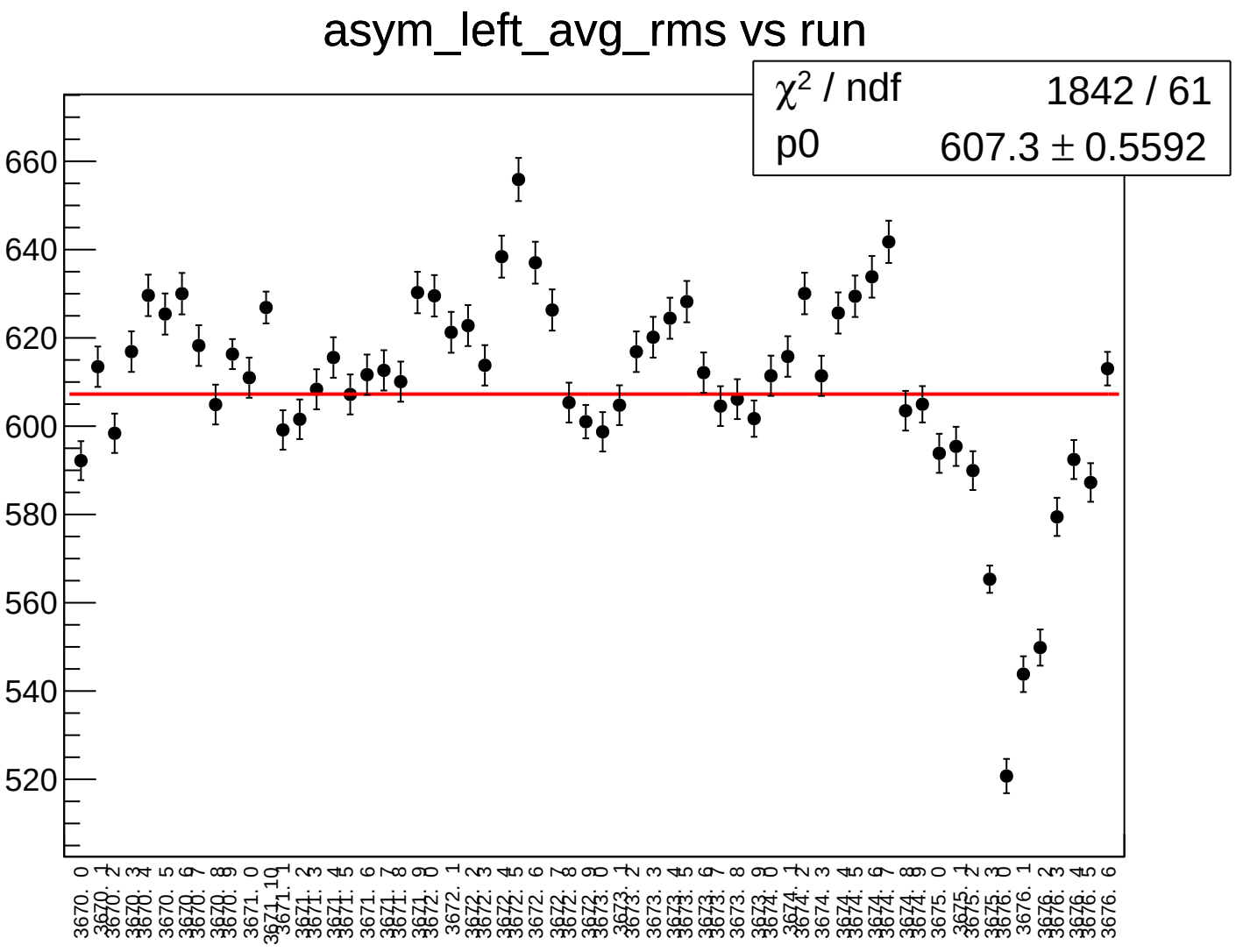
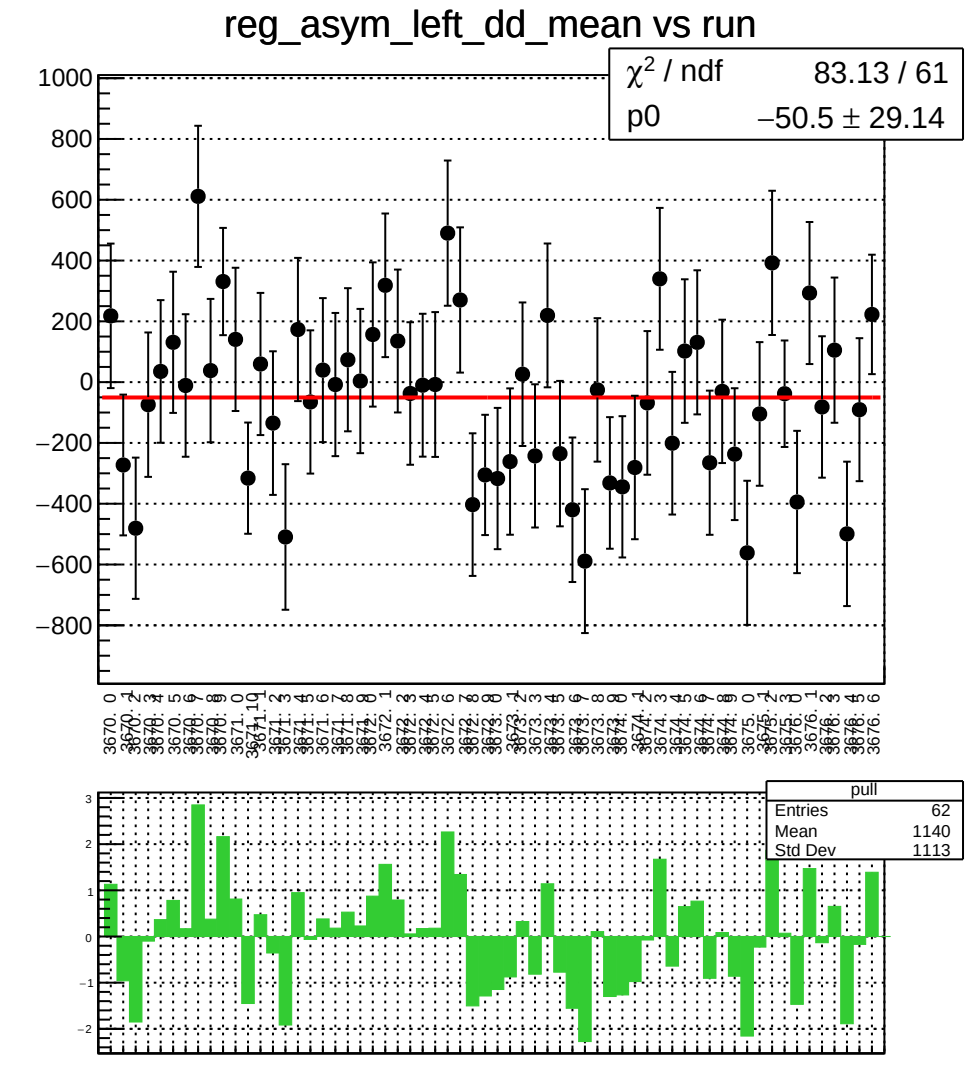
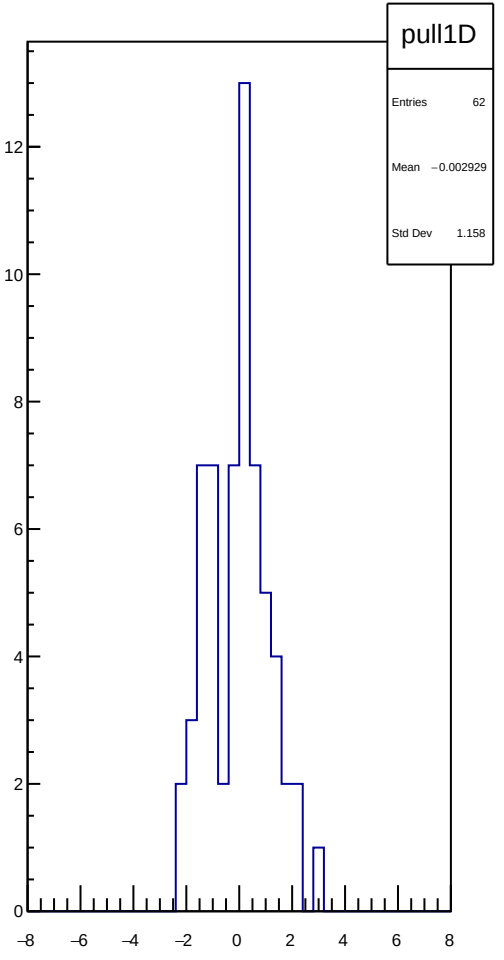
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

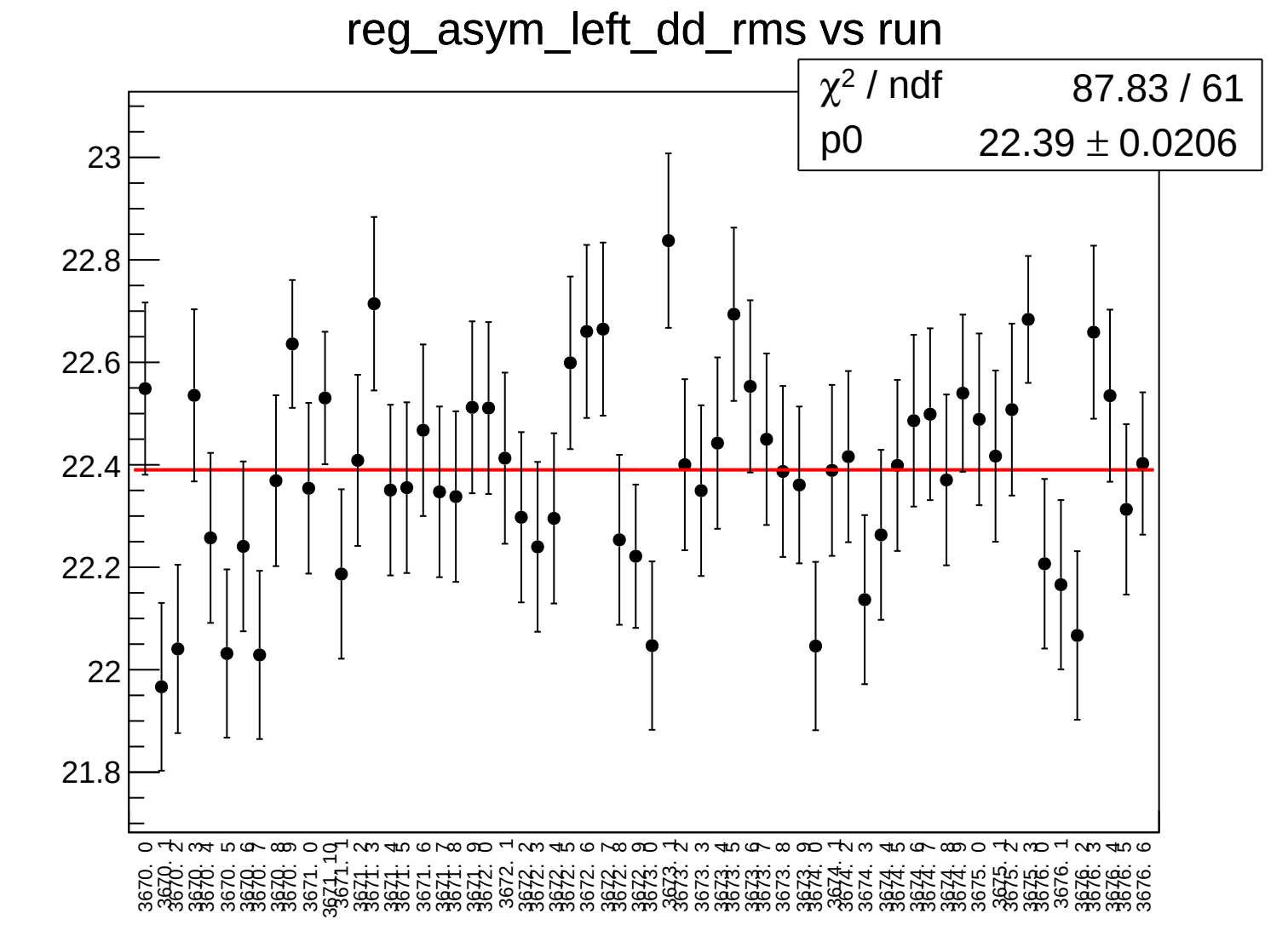

asym_left_avg_mean vs run
χ² / ndf 53.53 / 61
p0 165 ± 790.9
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −126.4
Std Dev 148.5
2
1
0
−1
−2

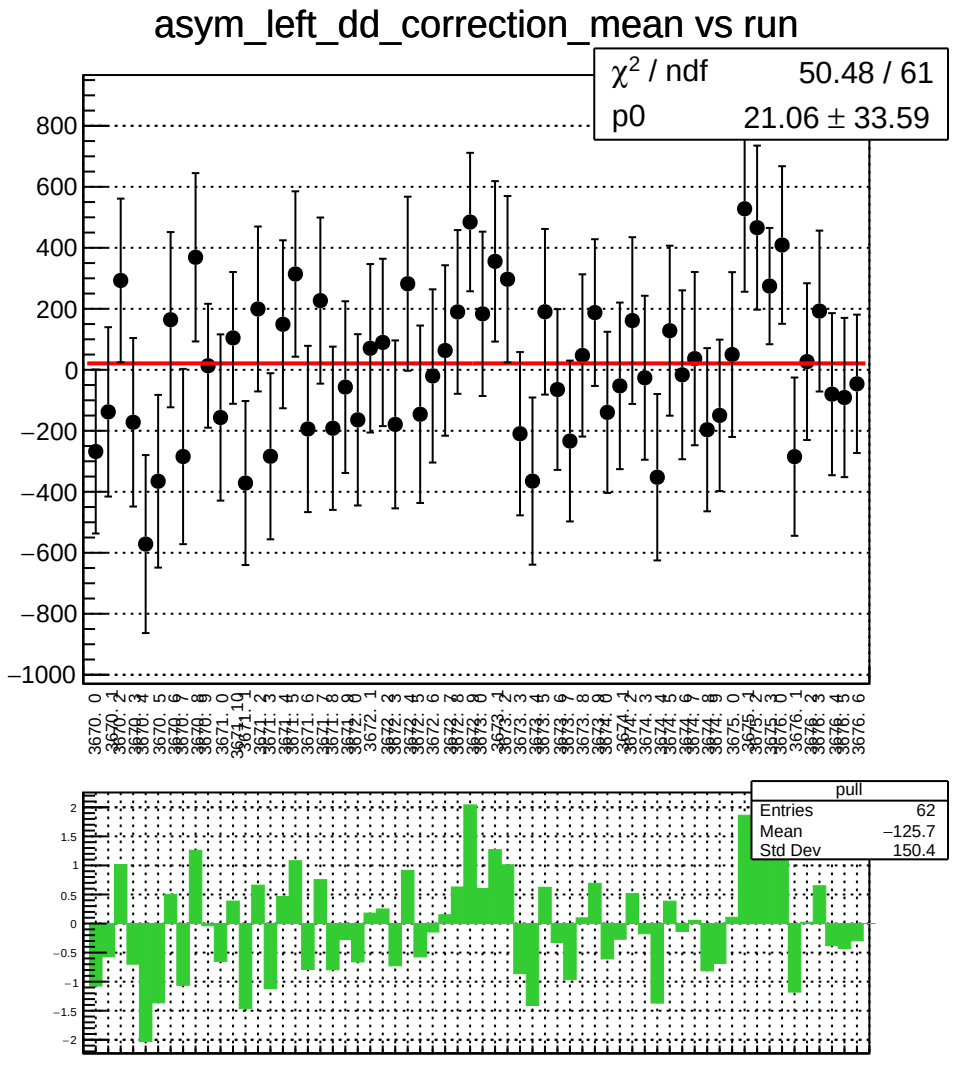

pull1D
Entries 62
Mean −0.02185
Std Dev 0.929
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

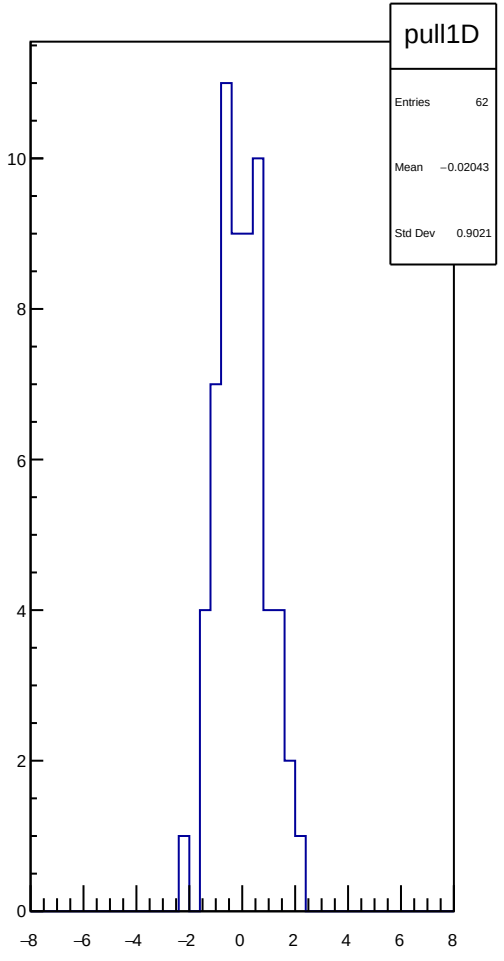

asym_left_avg_rms vs run
χ² / ndf 1842 / 61
p0 607.3 ± 0.5592
660
640
620
600
580
560
540
520

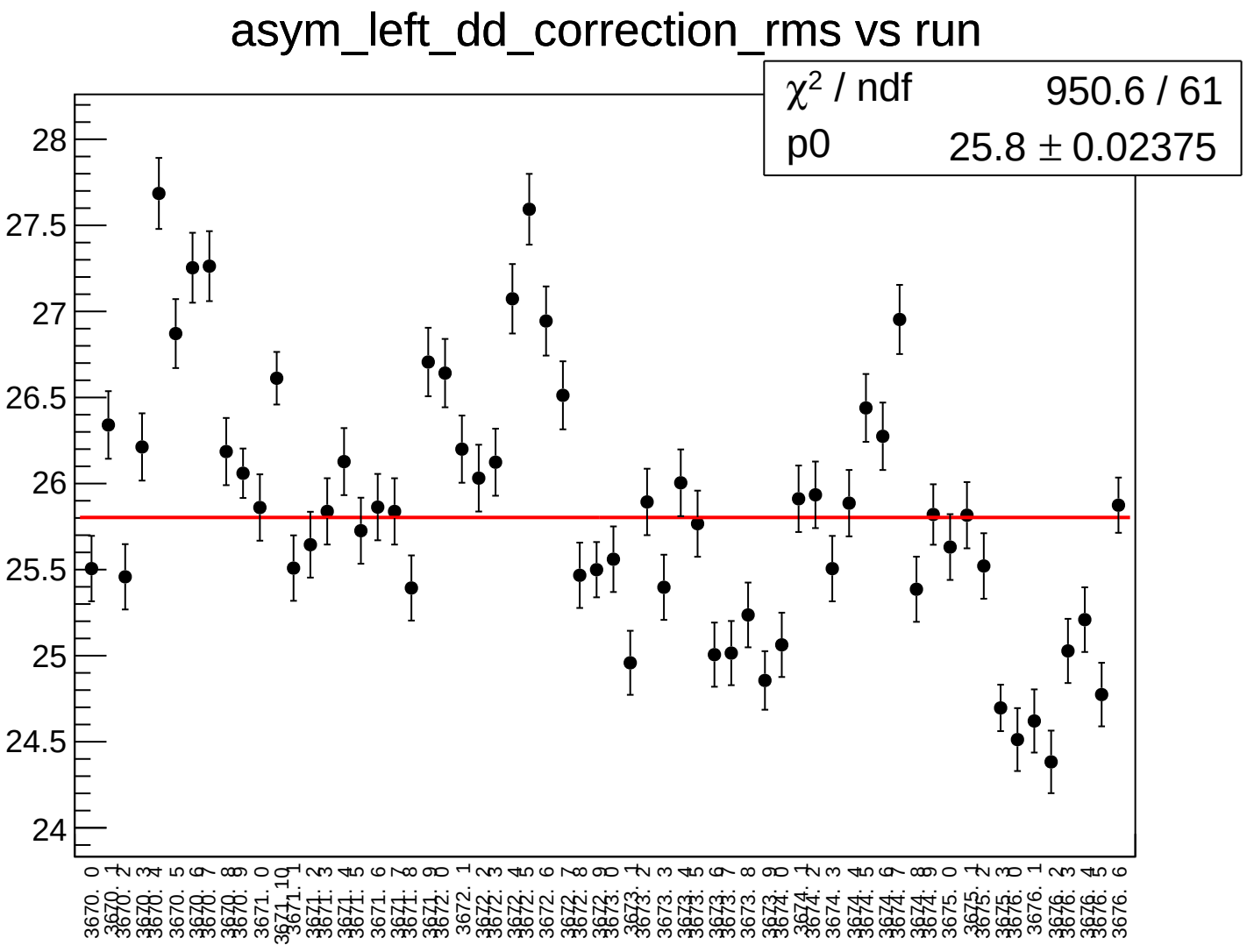

reg_asym_left_dd_mean vs run
χ² / ndf 83.13 / 61
p0 −50.5 ± 29.14
pull
Entries 62
Mean 1140
Std Dev 1113

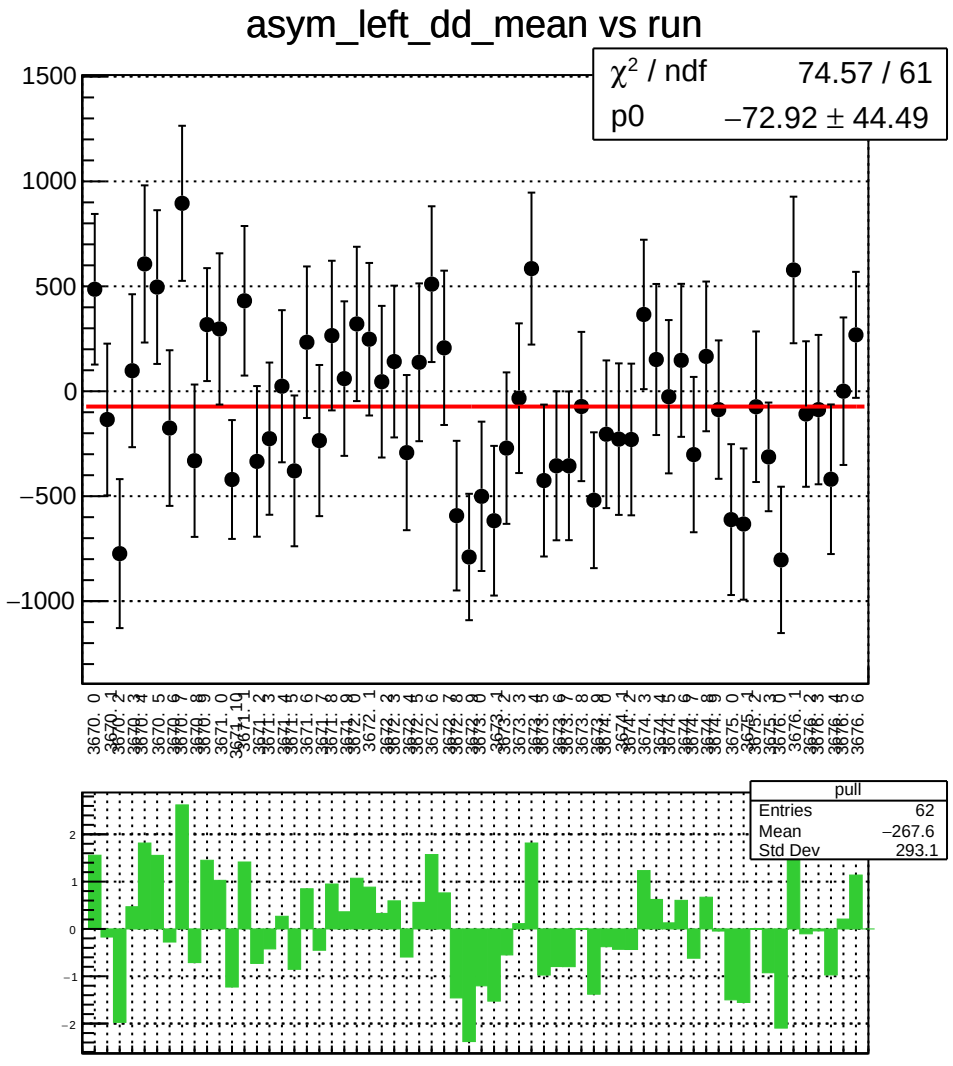

pull1D
Entries 62
Mean −0.002929
Std Dev 1.158

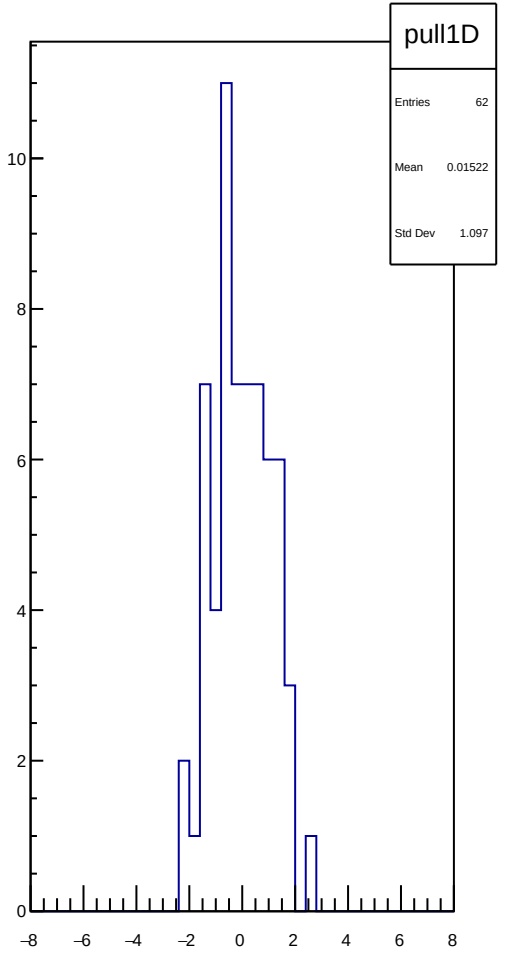

reg_asym_left_dd_rms vs run
χ² / ndf 87.83 / 61
p0 22.39 ± 0.0206
23
22.8
22.6
22.4
22.2
22
21.8

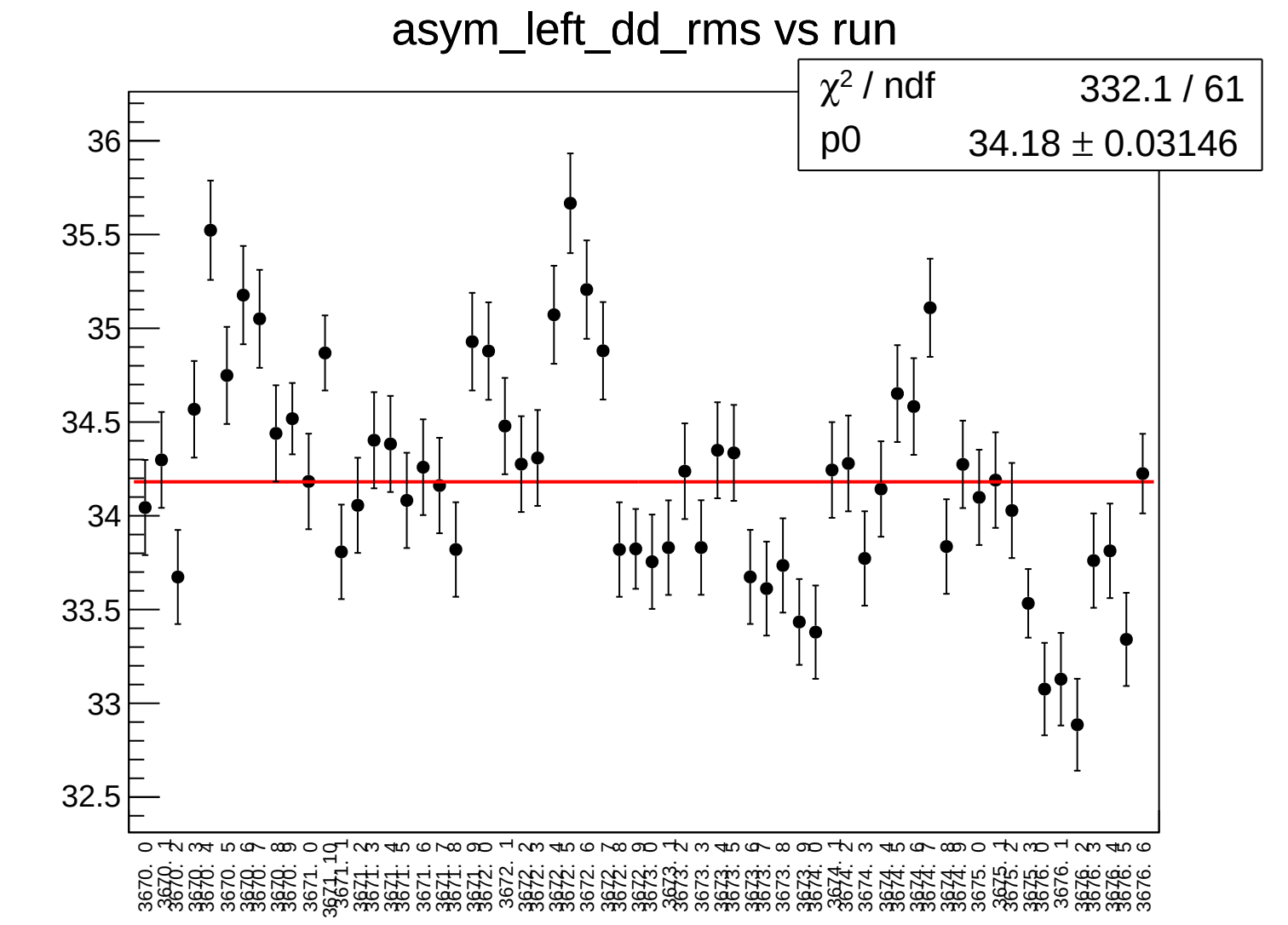

asym_left_dd_correction_mean vs run
χ² / ndf 50.48 / 61
p0 21.06 ± 33.59
pull
Entries 62
Mean −125.7
Std Dev 150.4

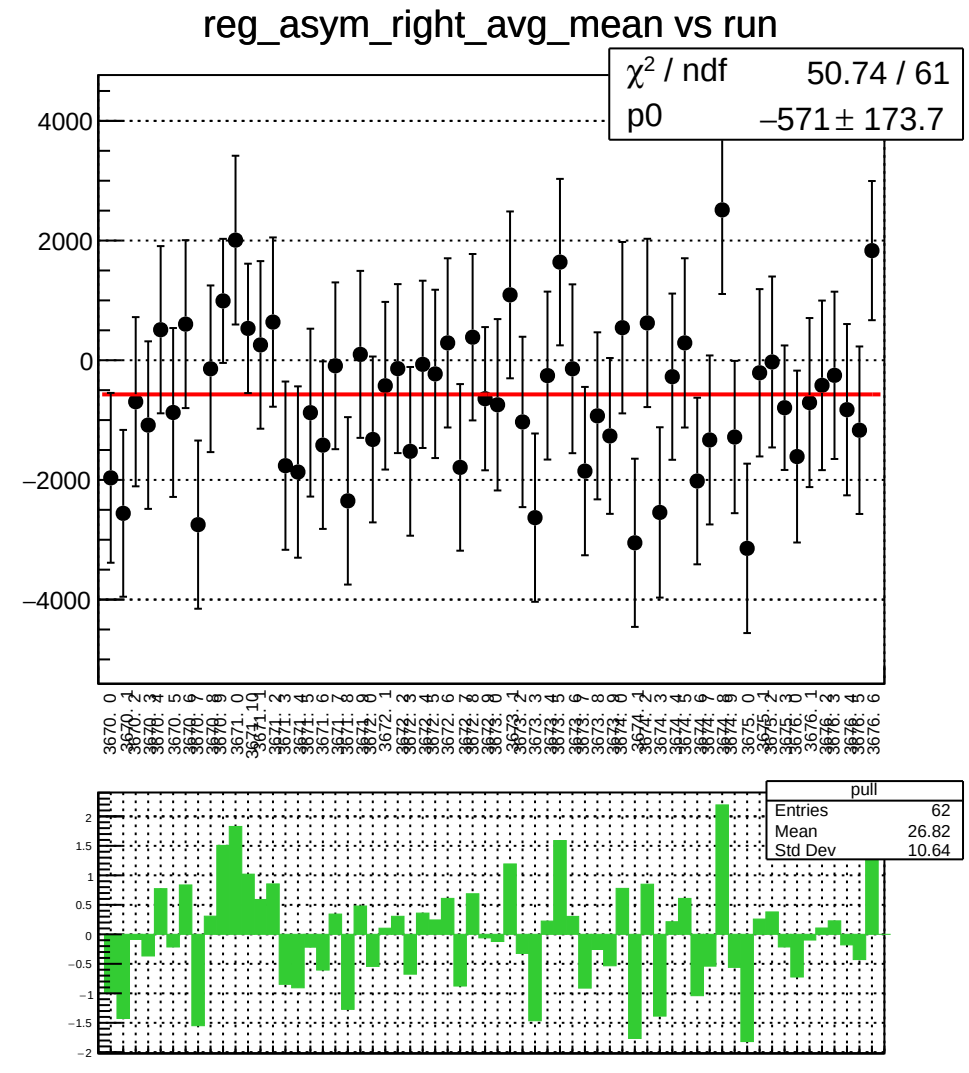

pull1D
Entries 62
Mean −0.02043
Std Dev 0.9021

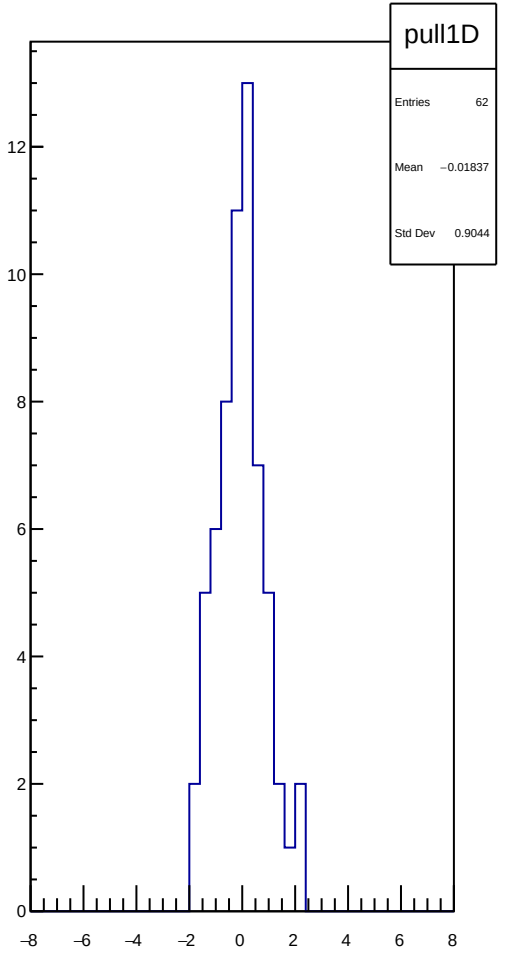

asym_left_dd_correction_rms vs run
χ² / ndf 950.6 / 61
p0 25.8 ± 0.02375
28
27.5
27
26.5
26
25.5
25
24.5
24

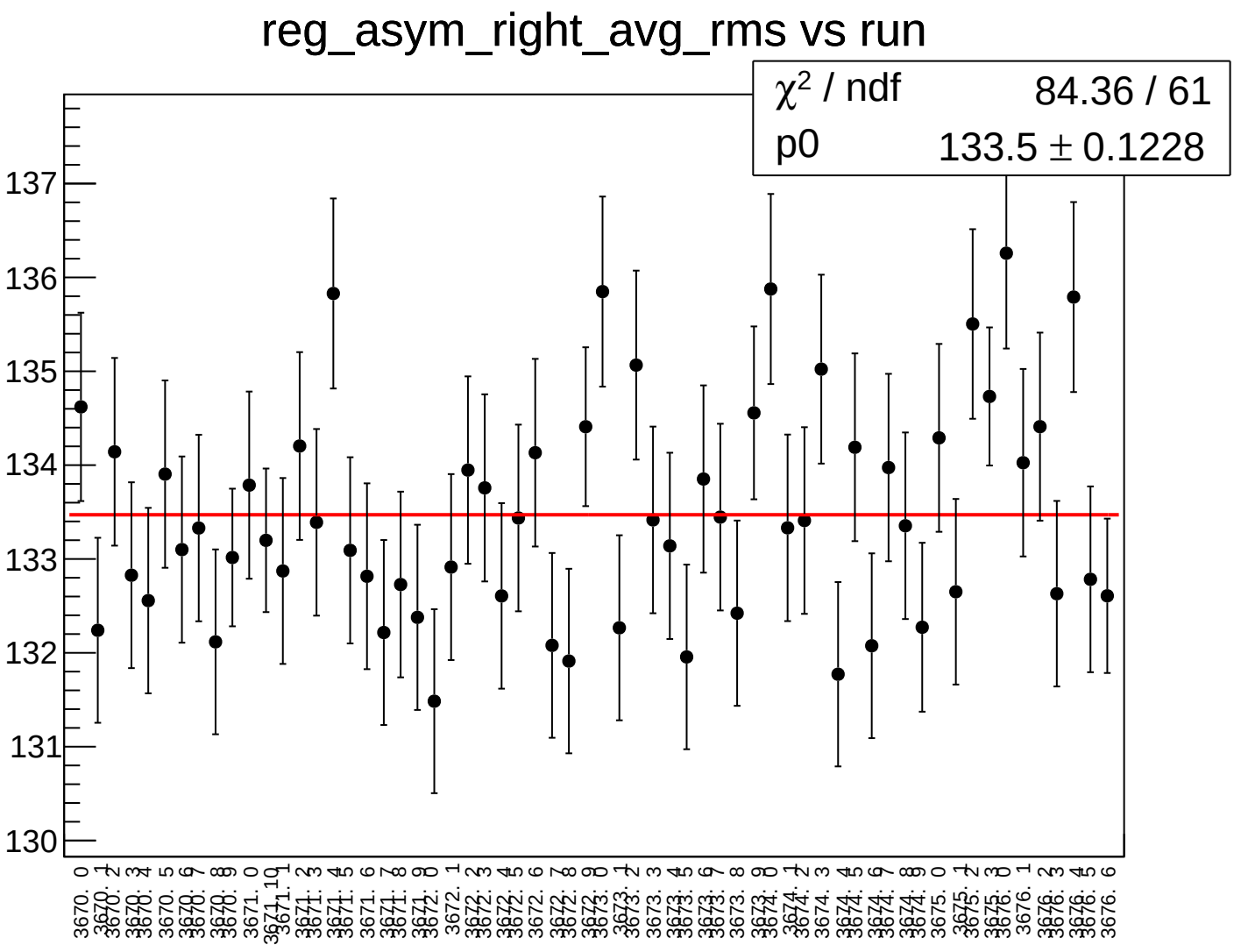

asym_left_dd_mean vs run
χ² / ndf 74.57 / 61
p0 −72.92 ± 44.49
pull
Entries 62
Mean −267.6
Std Dev 293.1


pull1D
Entries 62
Mean 0.01522
Std Dev 1.097


asym_left_dd_rms vs run
χ² / ndf 332.1 / 61
p0 34.18 ± 0.03146
36
35.5
35
34.5
34
33.5
33
32.5


reg_asym_right_avg_mean vs run
χ² / ndf 50.74 / 61
p0 −571 ± 173.7
pull
Entries 62
Mean 26.82
Std Dev 10.64


pull1D
Entries 62
Mean −0.01837
Std Dev 0.9044


reg_asym_right_avg_rms vs run
χ² / ndf 84.36 / 61
p0 133.5 ± 0.1228
137
136
135
134
133
132
131
130
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
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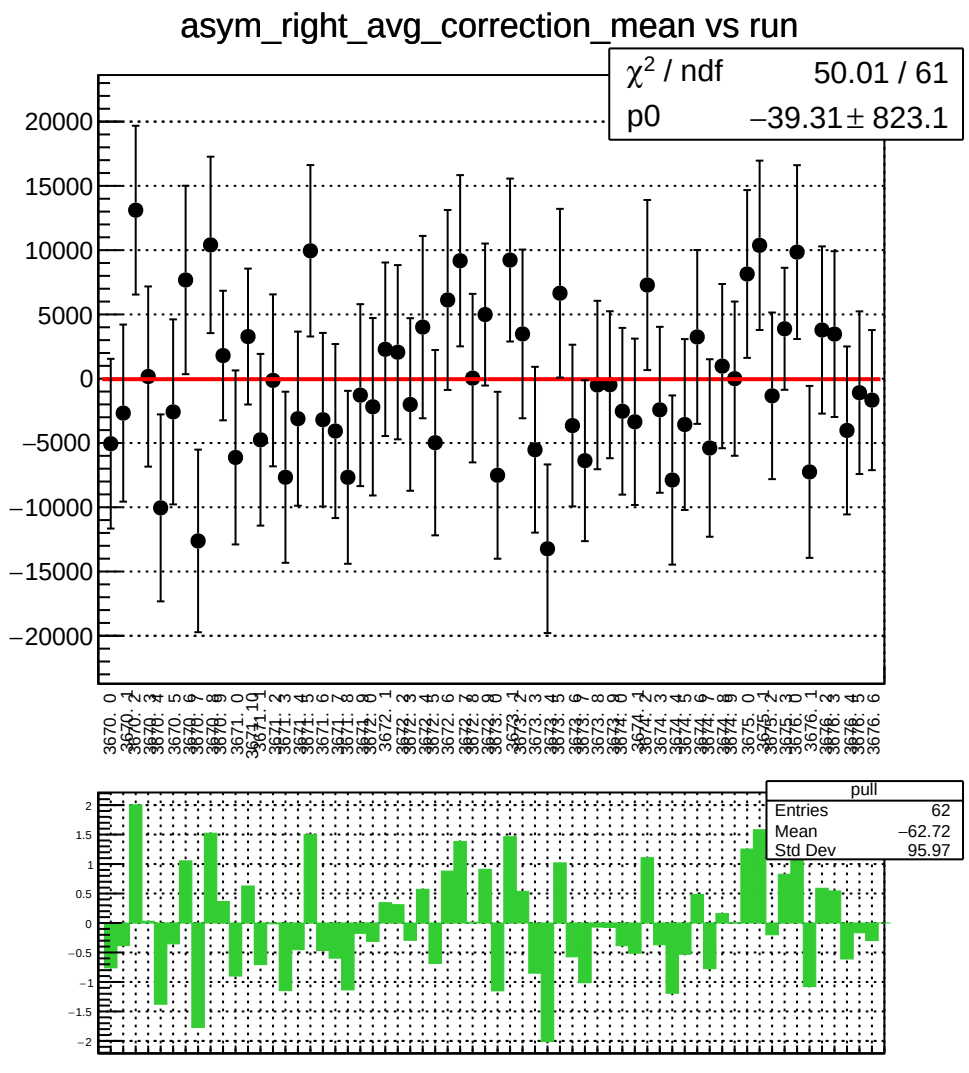
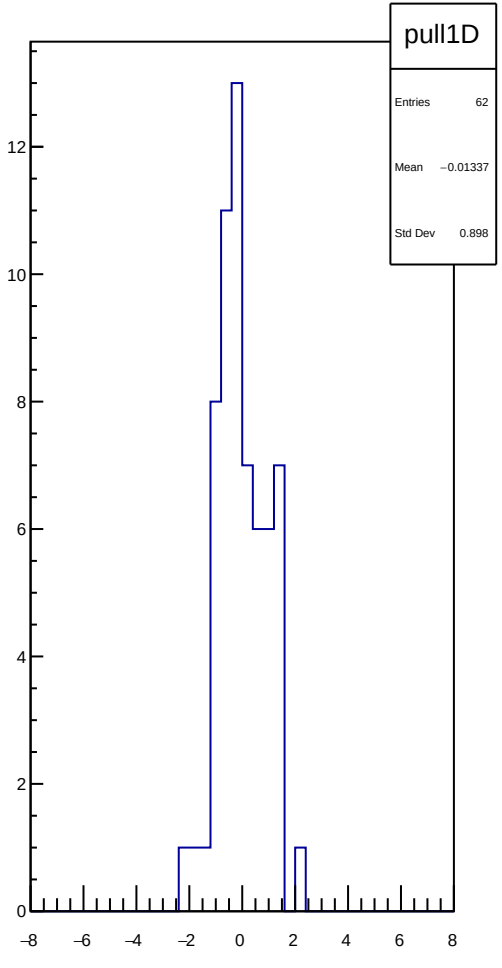
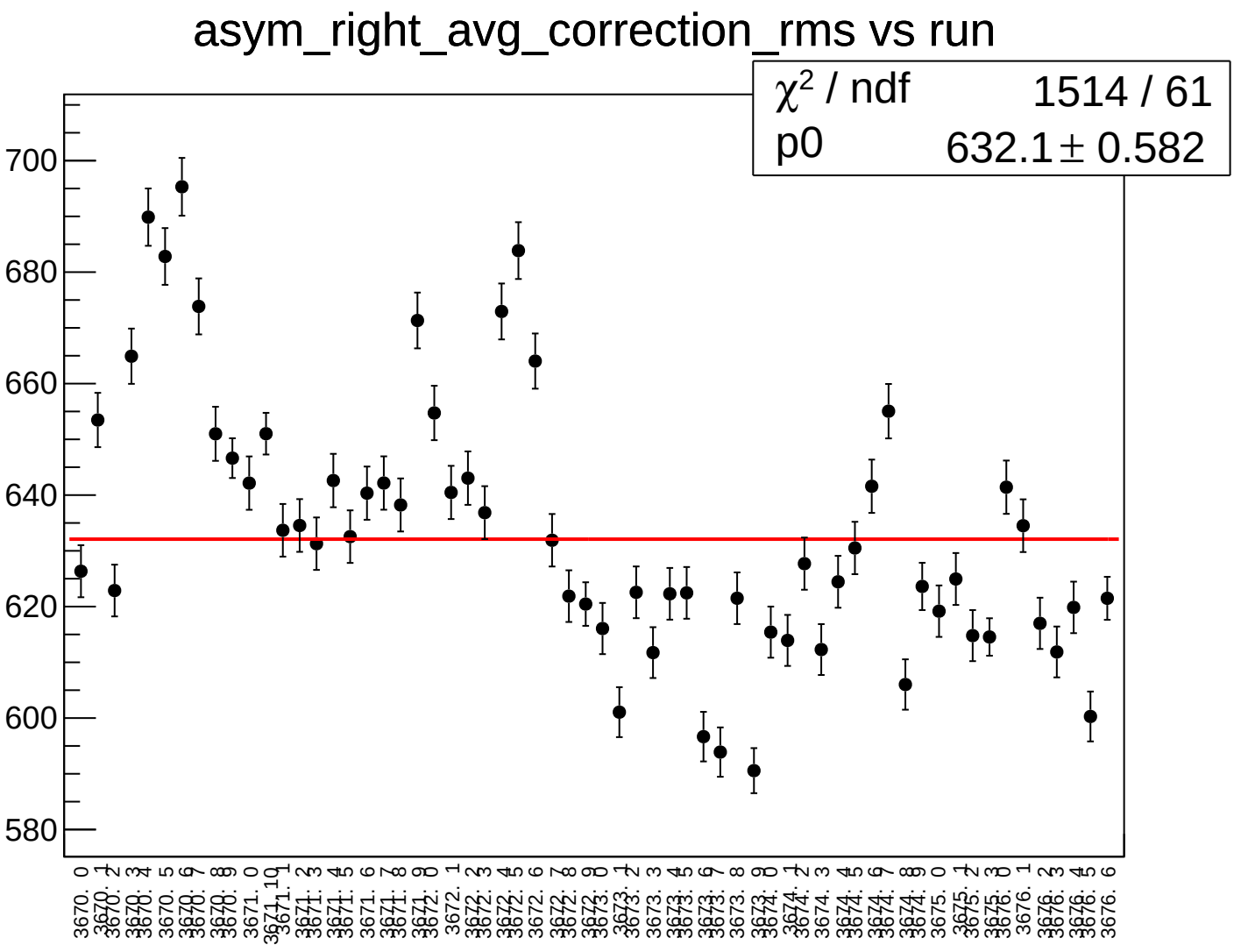
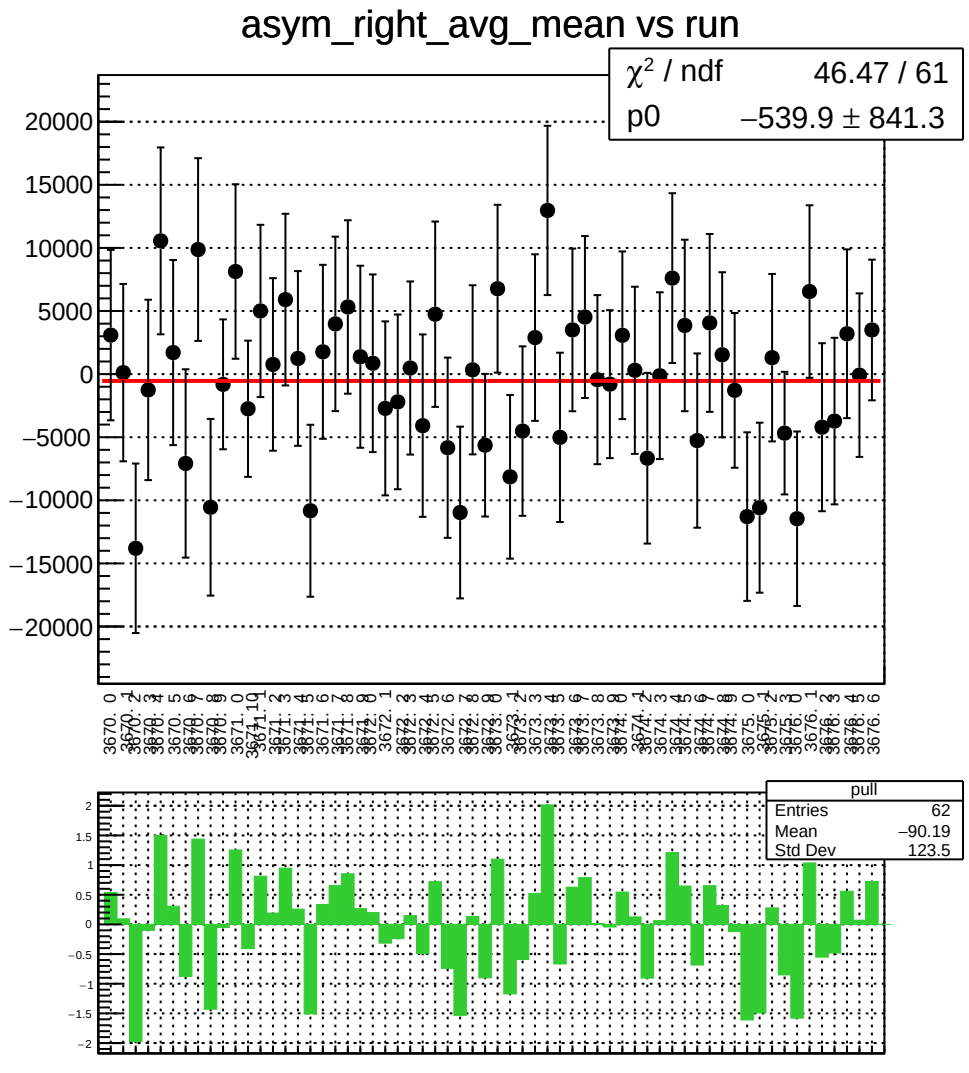
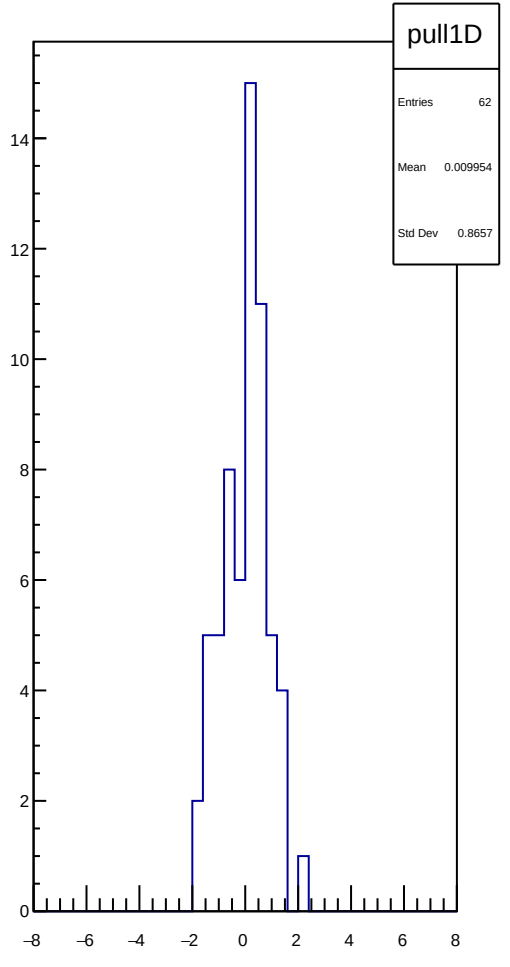
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

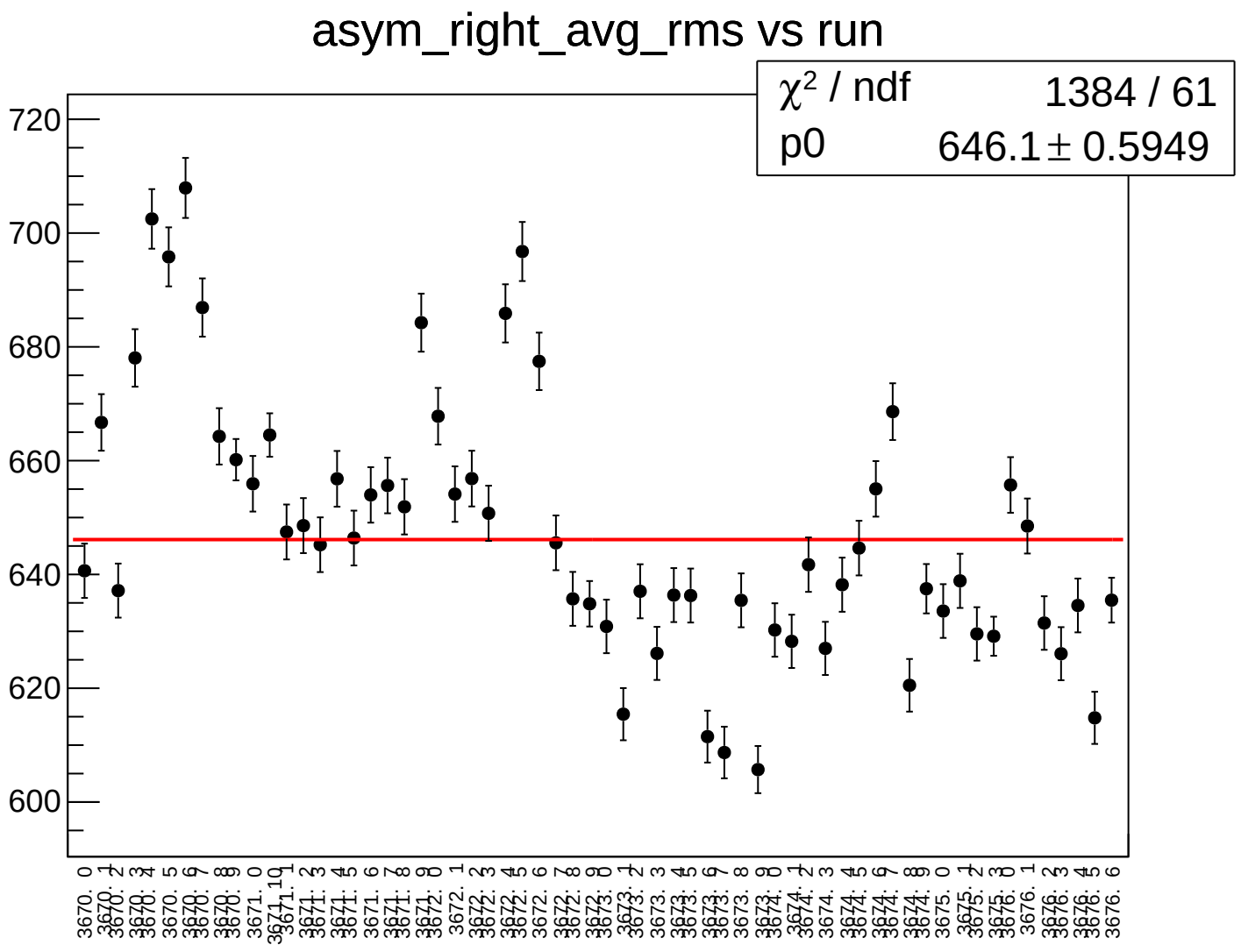

asym_right_avg_correction_mean vs run
χ² / ndf 50.01 / 61
p0 −39.31 ± 823.1
pull
Entries 62
Mean −62.72
Std Dev 95.97

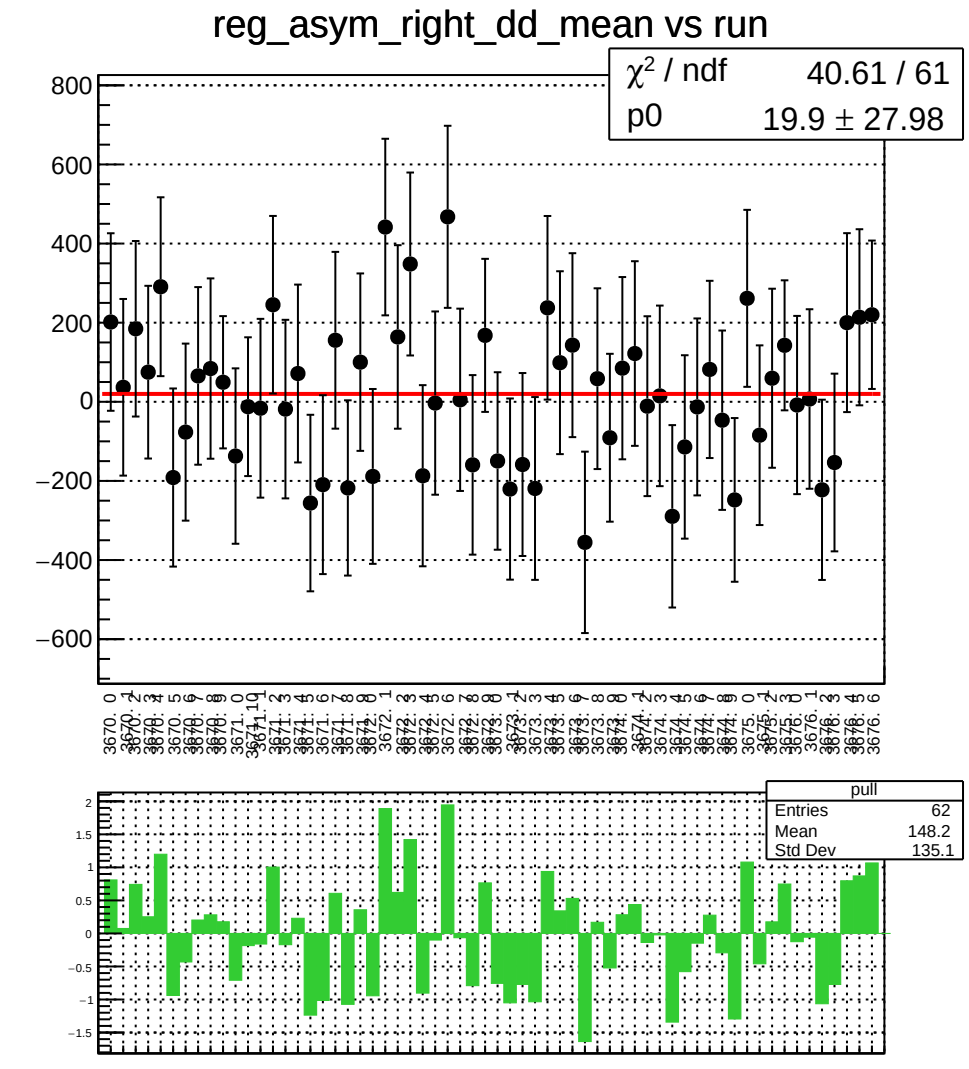

pull1D
Entries 62
Mean −0.01337
Std Dev 0.898

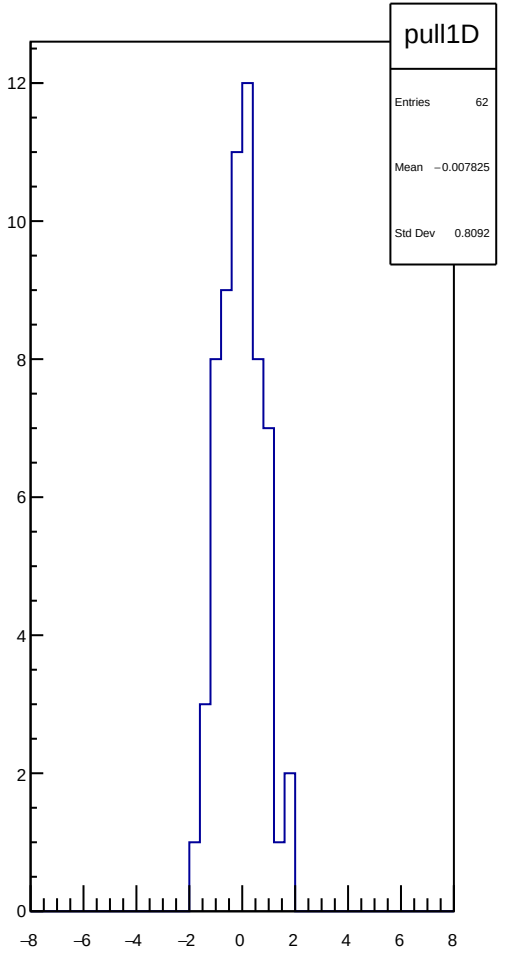

asym_right_avg_correction_rms vs run
χ² / ndf 1514 / 61
p0 632.1 ± 0.582
700
680
660
640
620
600
580
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

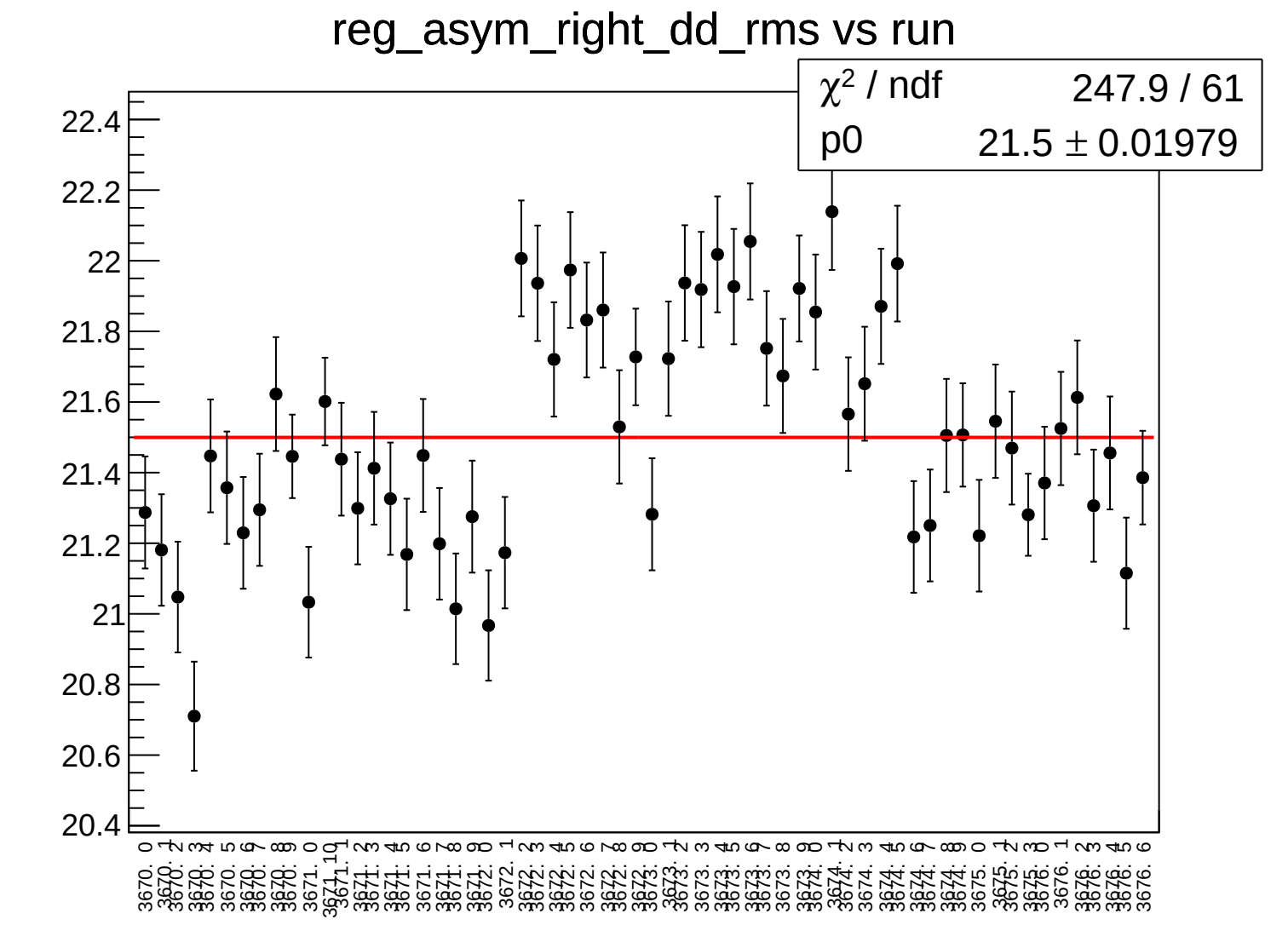

asym_right_avg_mean vs run
χ² / ndf 46.47 / 61
p0 −539.9 ± 841.3
pull
Entries 62
Mean −90.19
Std Dev 123.5

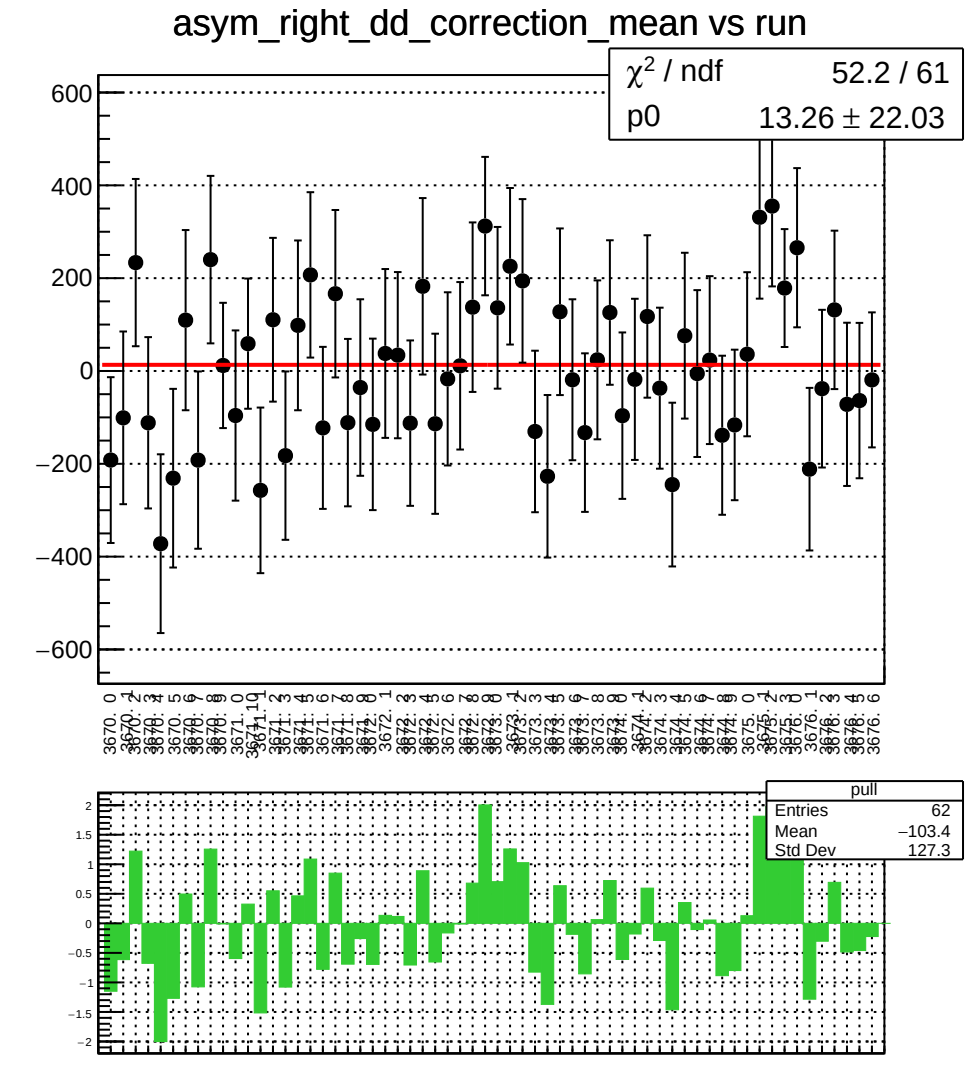

pull1D
Entries 62
Mean 0.009954
Std Dev 0.8657

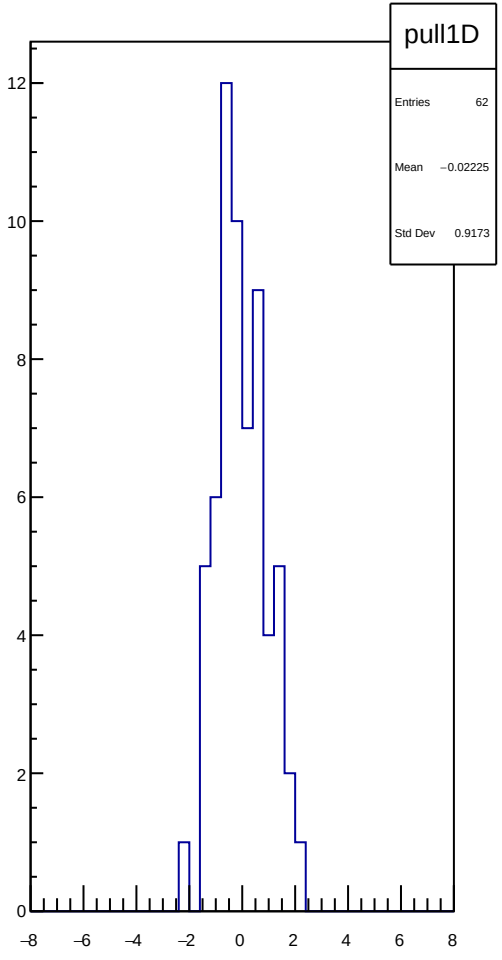

asym_right_avg_rms vs run
χ² / ndf 1384 / 61
p0 646.1 ± 0.5949
720
700
680
660
640
620
600

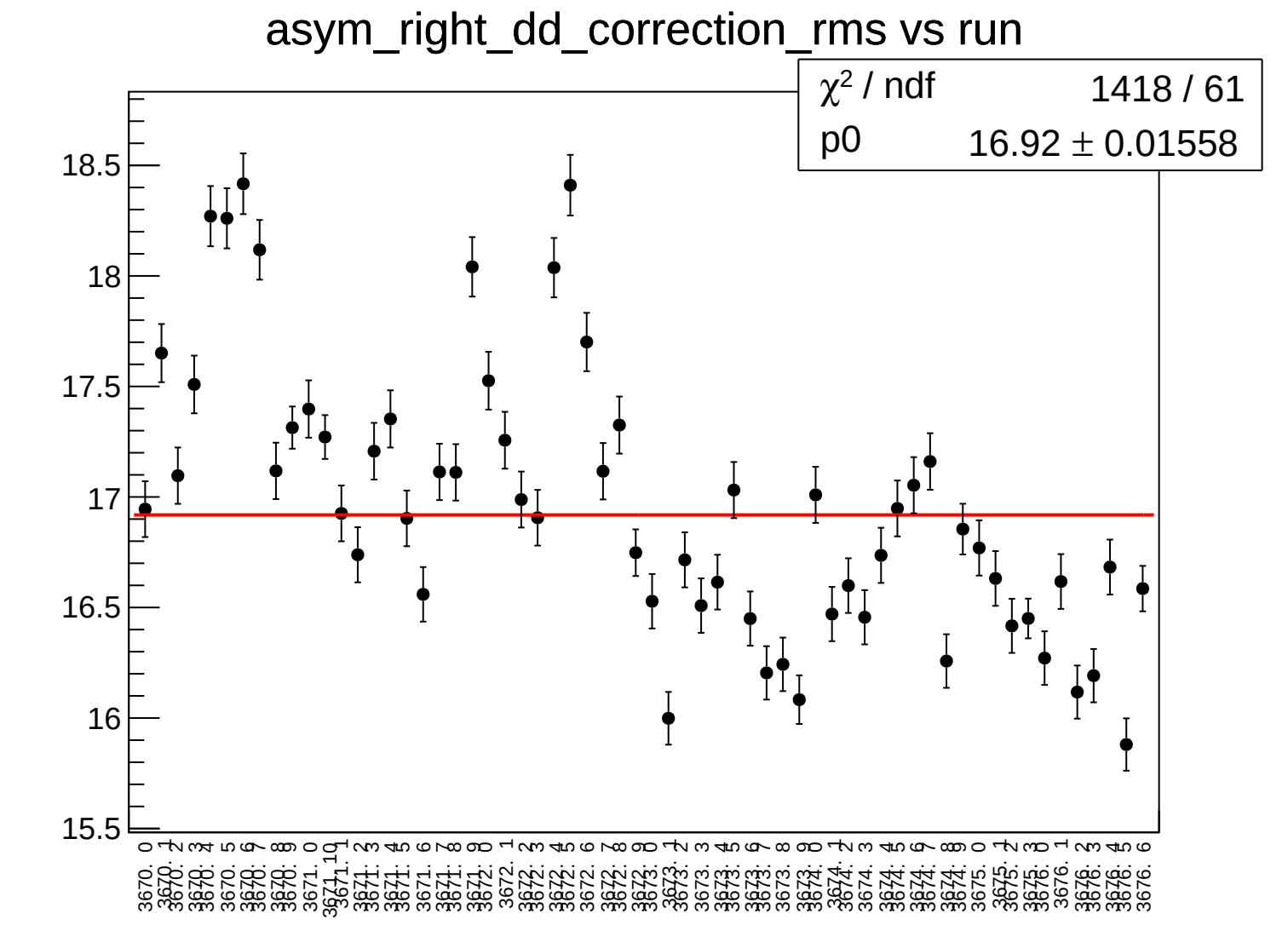

reg_asym_right_dd_mean vs run
χ² / ndf 40.61 / 61
p0 19.9 ± 27.98
pull
Entries 62
Mean 148.2
Std Dev 135.1

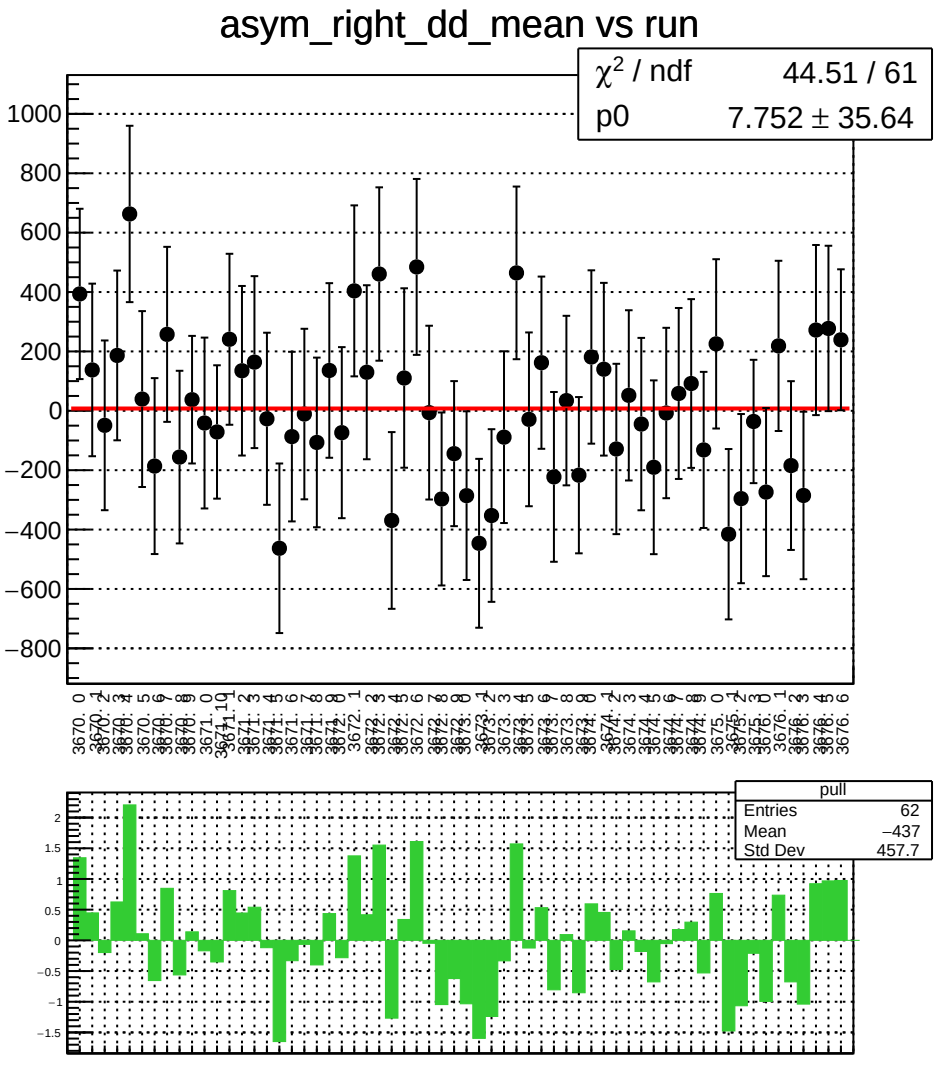

pull1D
Entries 62
Mean −0.007825
Std Dev 0.8092

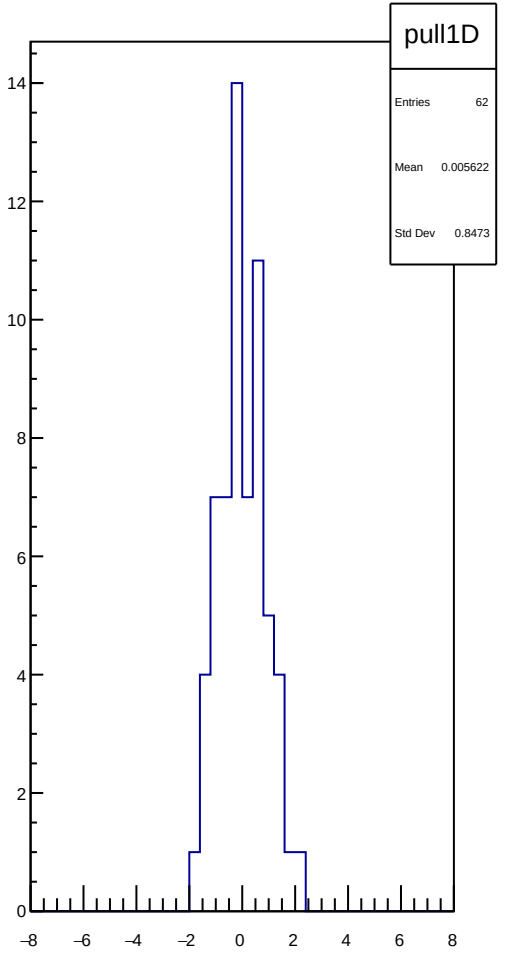

reg_asym_right_dd_rms vs run
χ² / ndf 247.9 / 61
p0 21.5 ± 0.01979
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

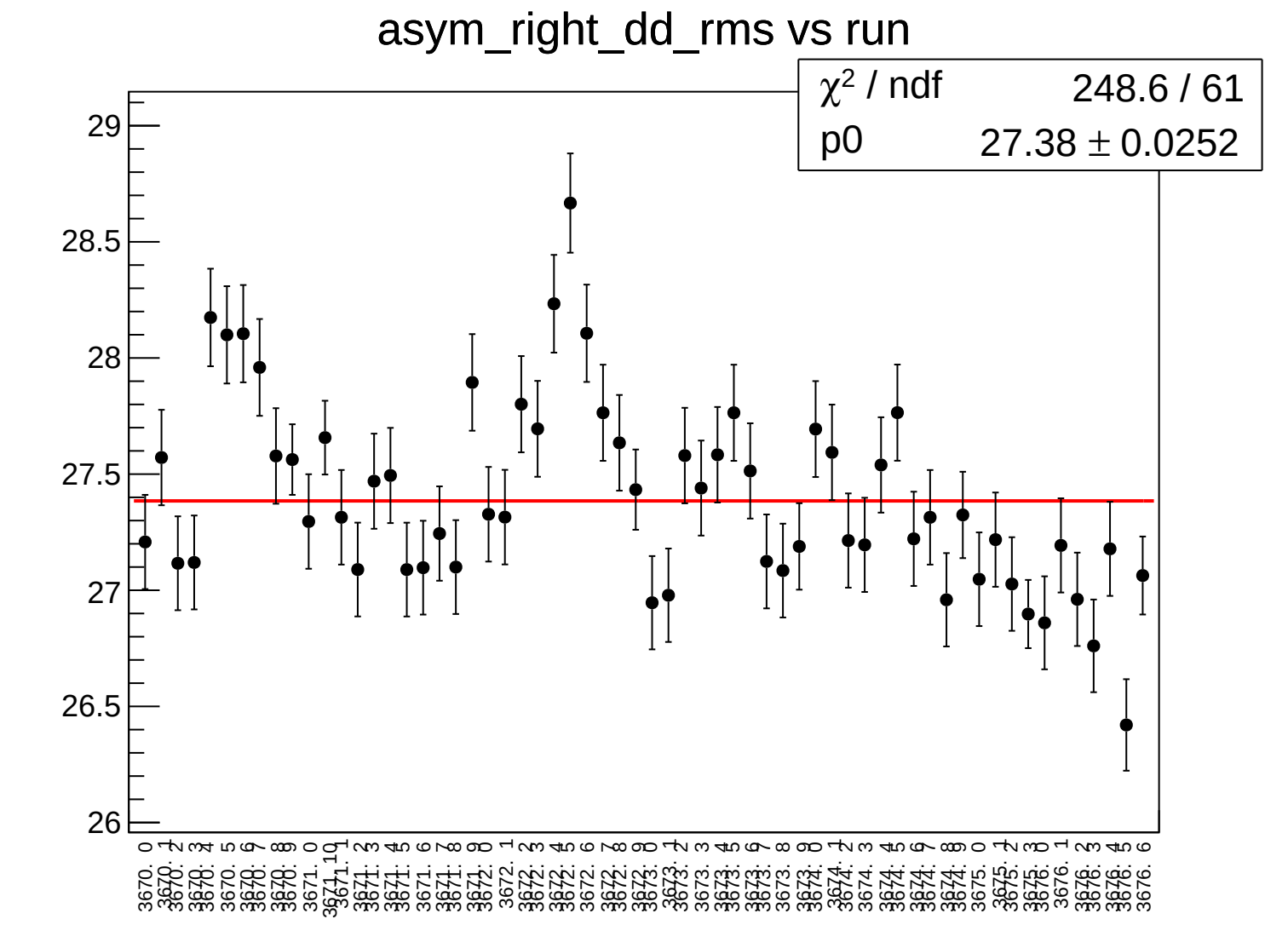

asym_right_dd_correction_mean vs run
χ² / ndf 52.2 / 61
p0 13.26 ± 22.03
pull
Entries 62
Mean −103.4
Std Dev 127.3

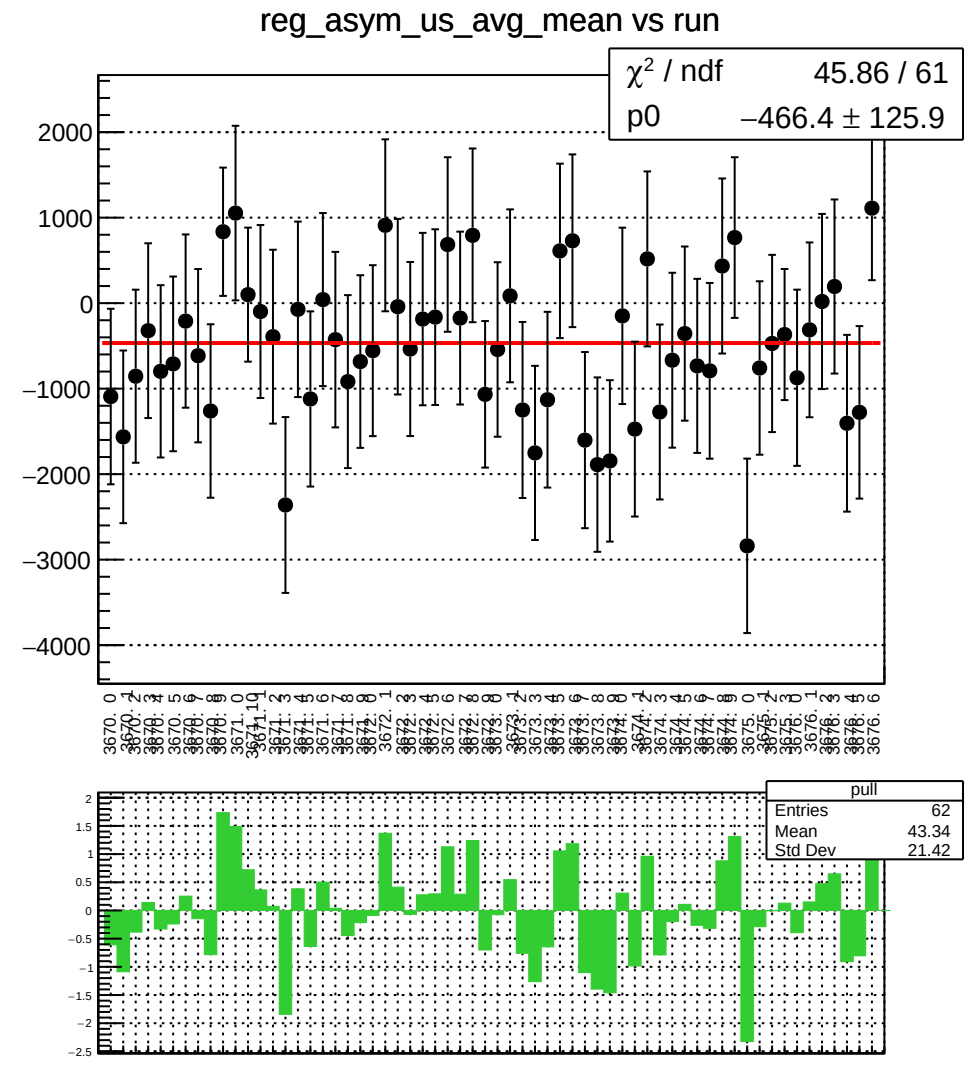

pull1D
Entries 62
Mean −0.02225
Std Dev 0.9173

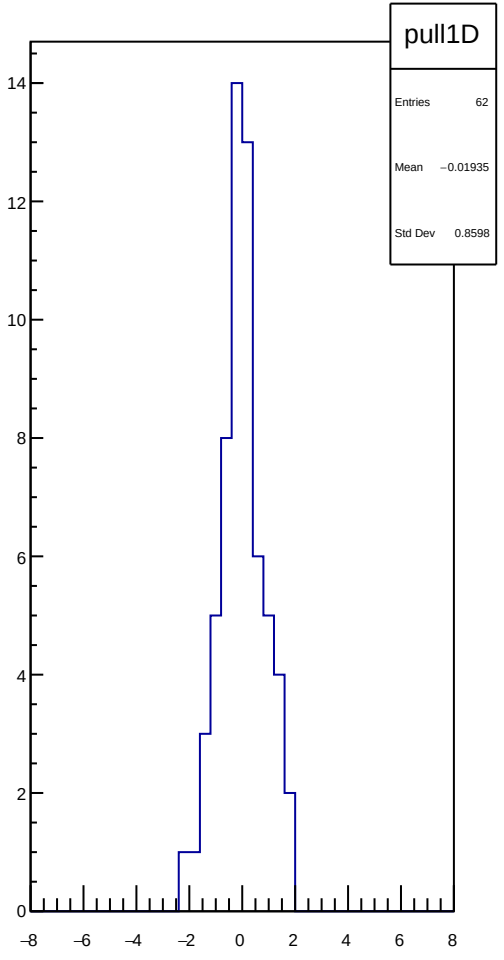

asym_right_dd_correction_rms vs run
χ² / ndf 1418 / 61
p0 16.92 ± 0.01558
18.5
18
17.5
17
16.5
16
15.5
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

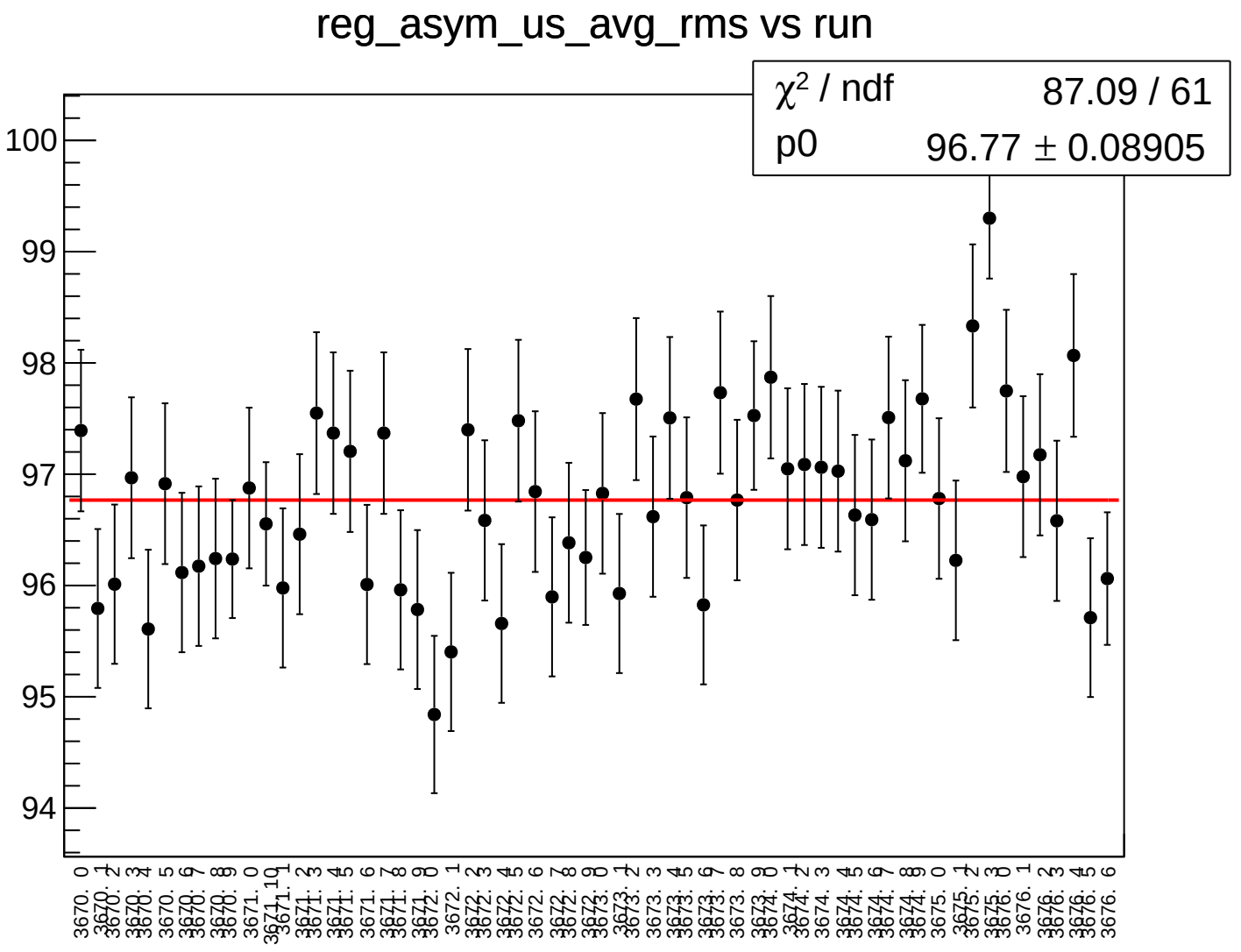

asym_right_dd_mean vs run
χ² / ndf 44.51 / 61
p0 7.752 ± 35.64
pull
Entries 62
Mean −437
Std Dev 457.7

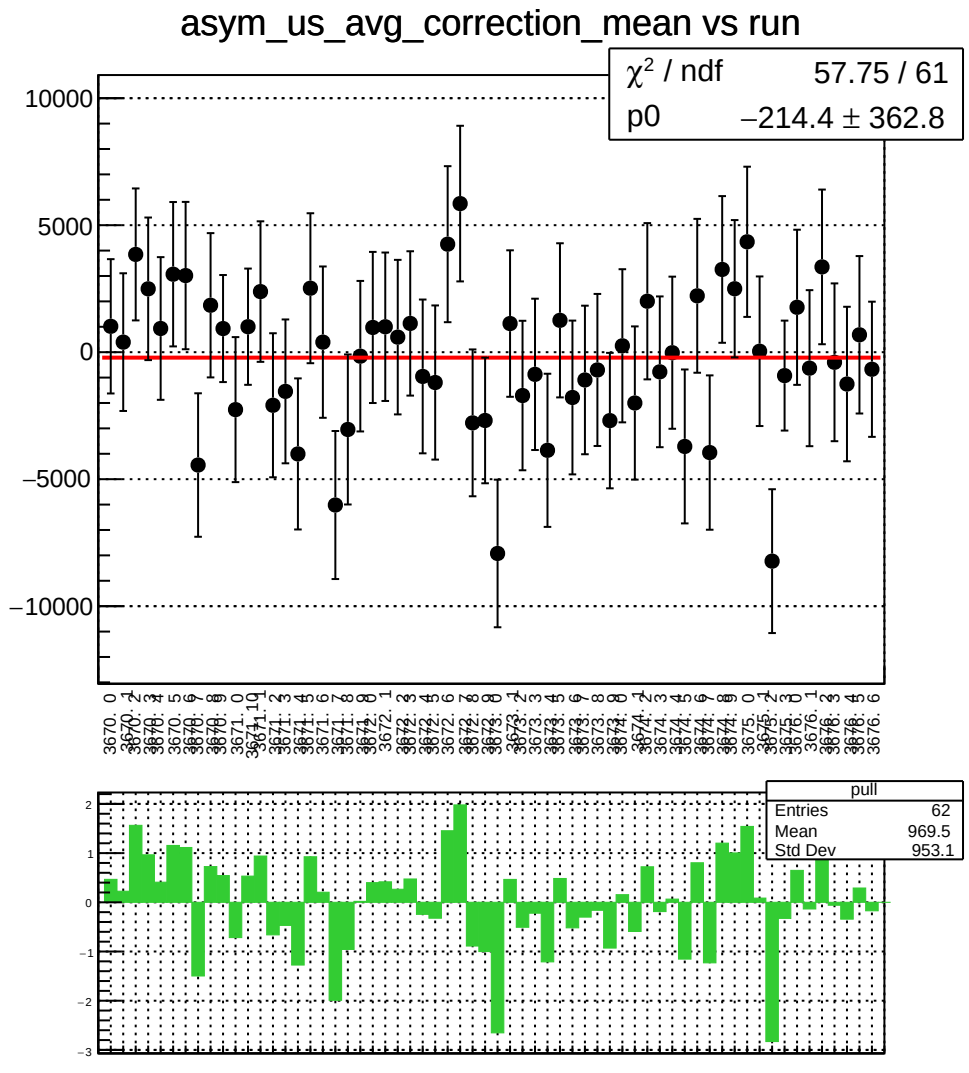

pull1D
Entries 62
Mean 0.005622
Std Dev 0.8473

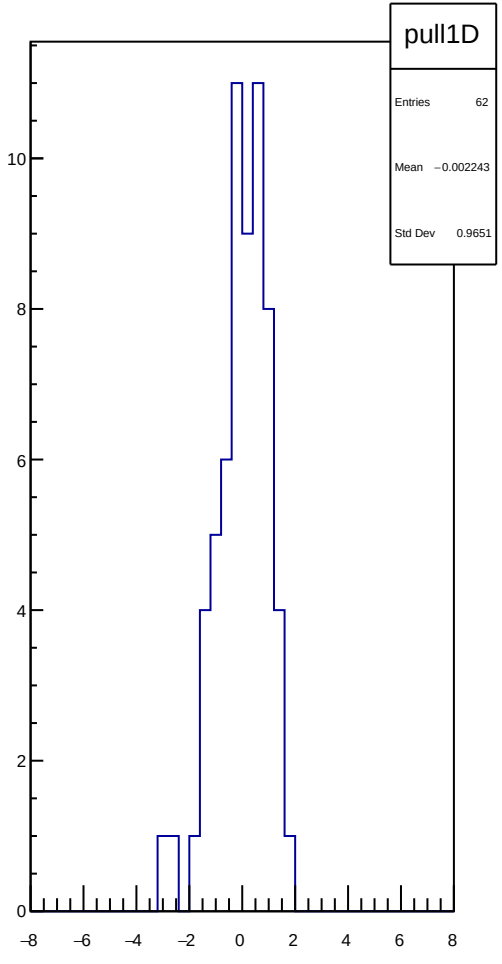

asym_right_dd_rms vs run
χ² / ndf 248.6 / 61
p0 27.38 ± 0.0252
29
28.5
28
27.5
27
26.5
26

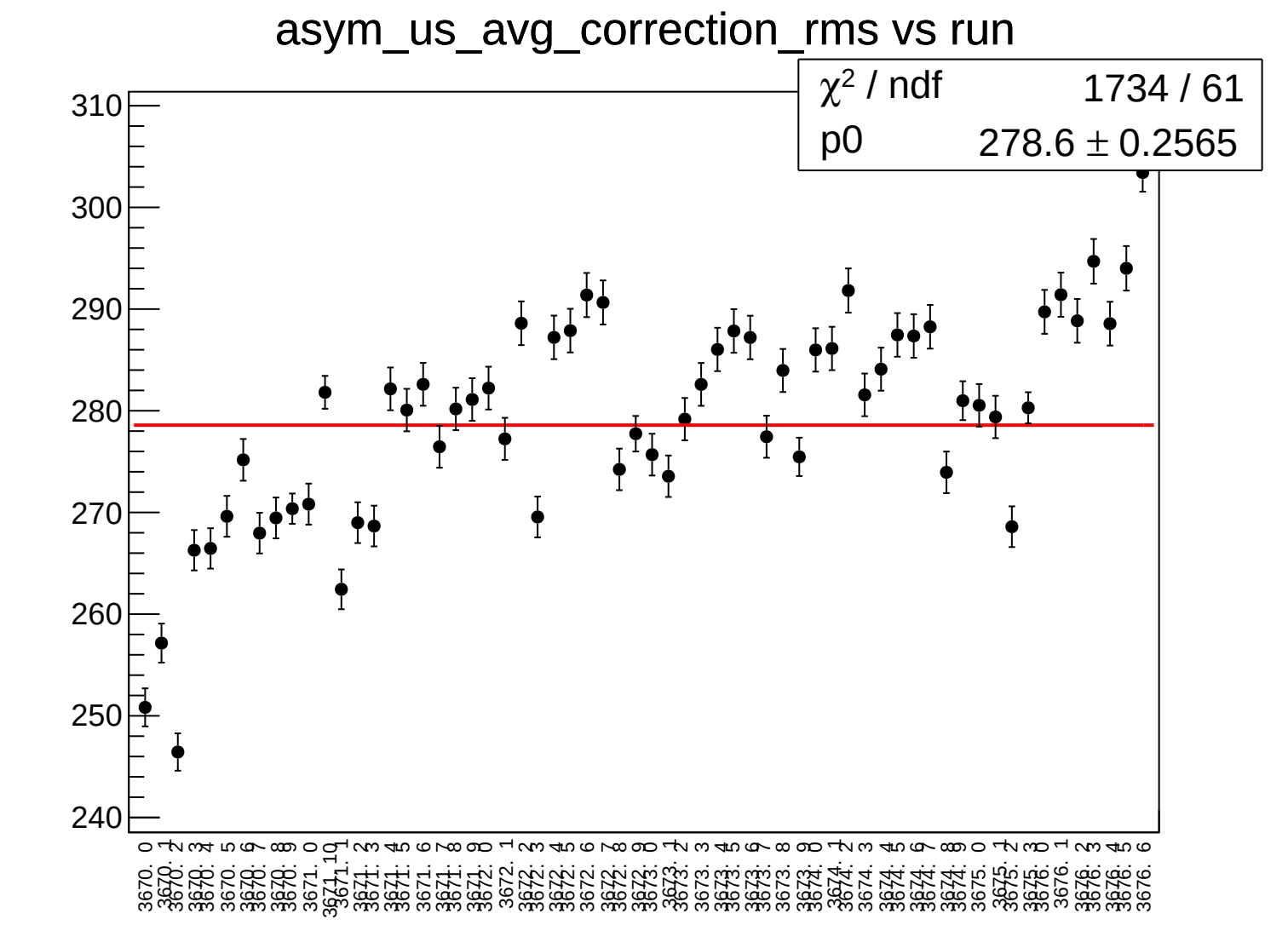

reg_asym_us_avg_mean vs run
χ² / ndf 45.86 / 61
p0 −466.4 ± 125.9
pull
Entries 62
Mean 43.34
Std Dev 21.42

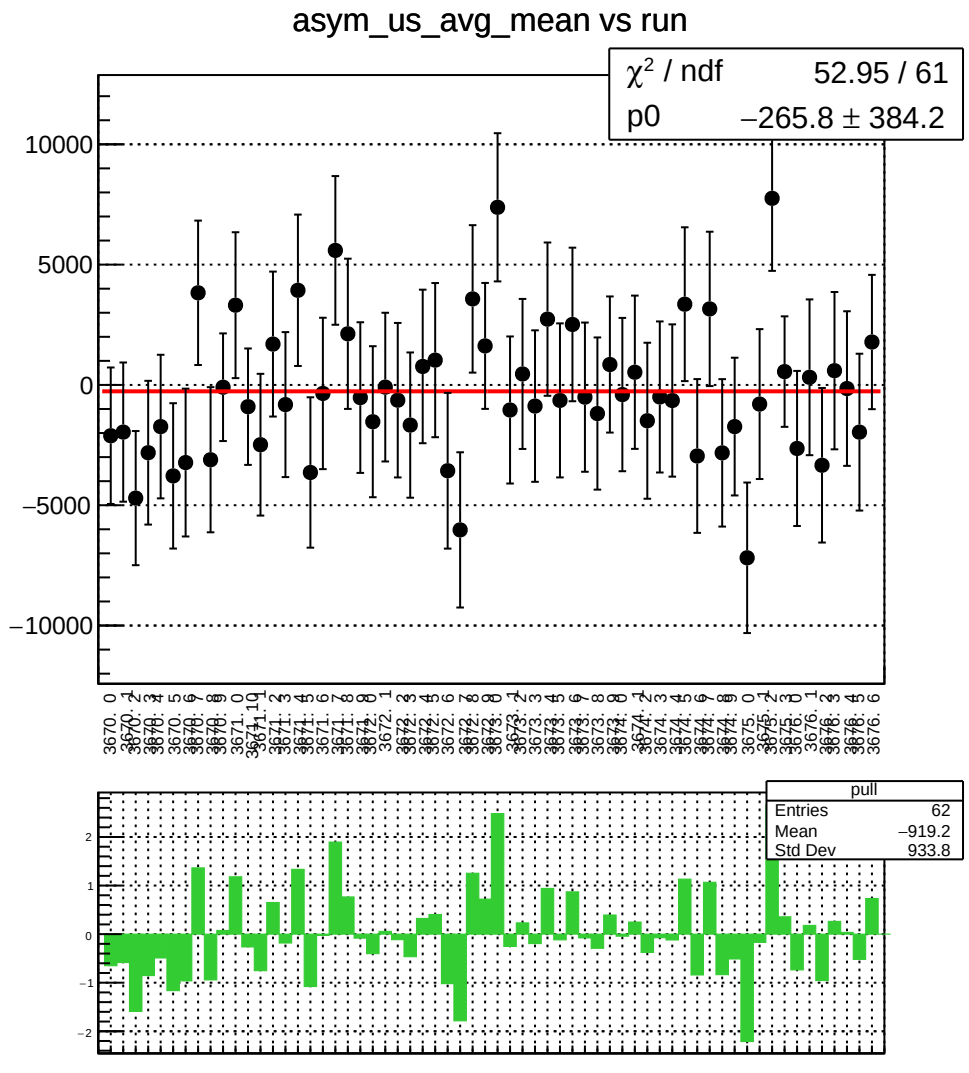

pull1D
Entries 62
Mean −0.01935
Std Dev 0.8598

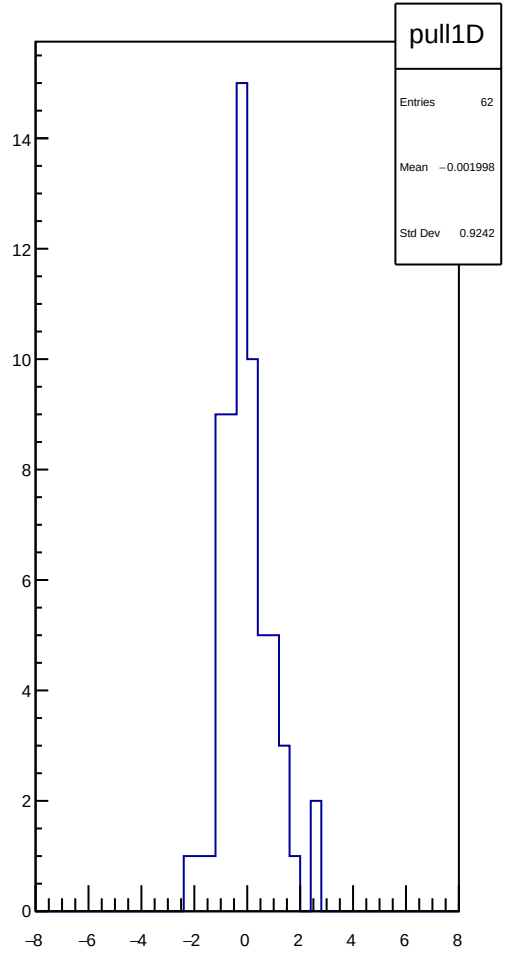

reg_asym_us_avg_rms vs run
χ^2 / ndf 87.09 / 61
p0 96.77 ± 0.08905
100
99
98
97
96
95
94
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

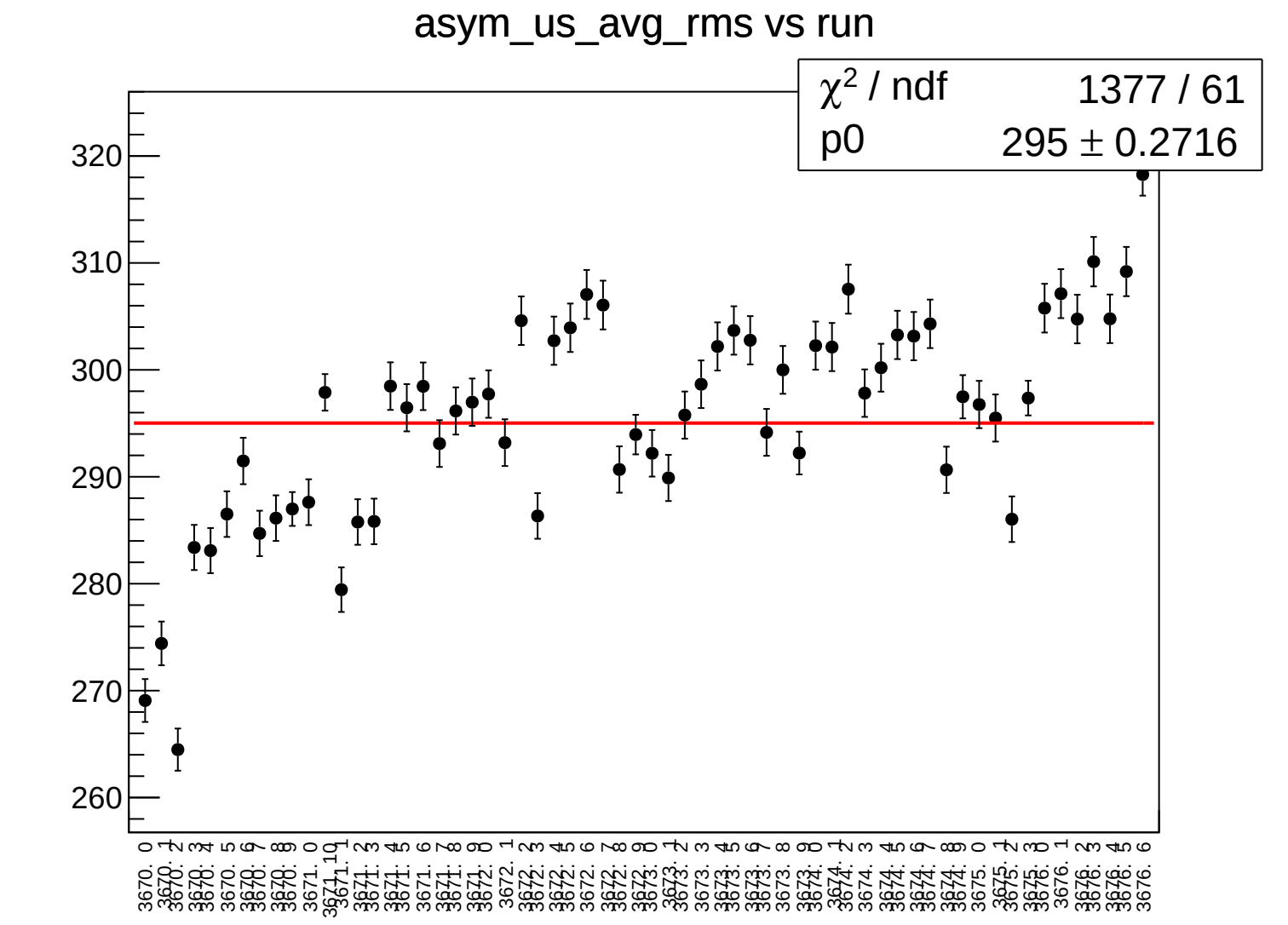

asym_us_avg_correction_mean vs run
χ² / ndf 57.75 / 61
p0 −214.4 ± 362.8
pull
Entries 62
Mean 969.5
Std Dev 953.1


pull1D
Entries 62
Mean −0.002243
Std Dev 0.9651


asym_us_avg_correction_rms vs run
χ² / ndf 1734 / 61
p0 278.6 ± 0.2565
310
300
290
280
270
260
250
240


asym_us_avg_mean vs run
χ² / ndf 52.95 / 61
p0 −265.8 ± 384.2
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −919.2
Std Dev 933.8
2
1
0
−1
−2


pull1D
Entries 62
Mean −0.001998
Std Dev 0.9242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_rms vs run
χ^2 / ndf 1377 / 61
p0 295 ± 0.2716
320
310
300
290
280
270
260
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
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3671. 7
3671. 8
3671. 9
3672. 0
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3672. 2
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3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
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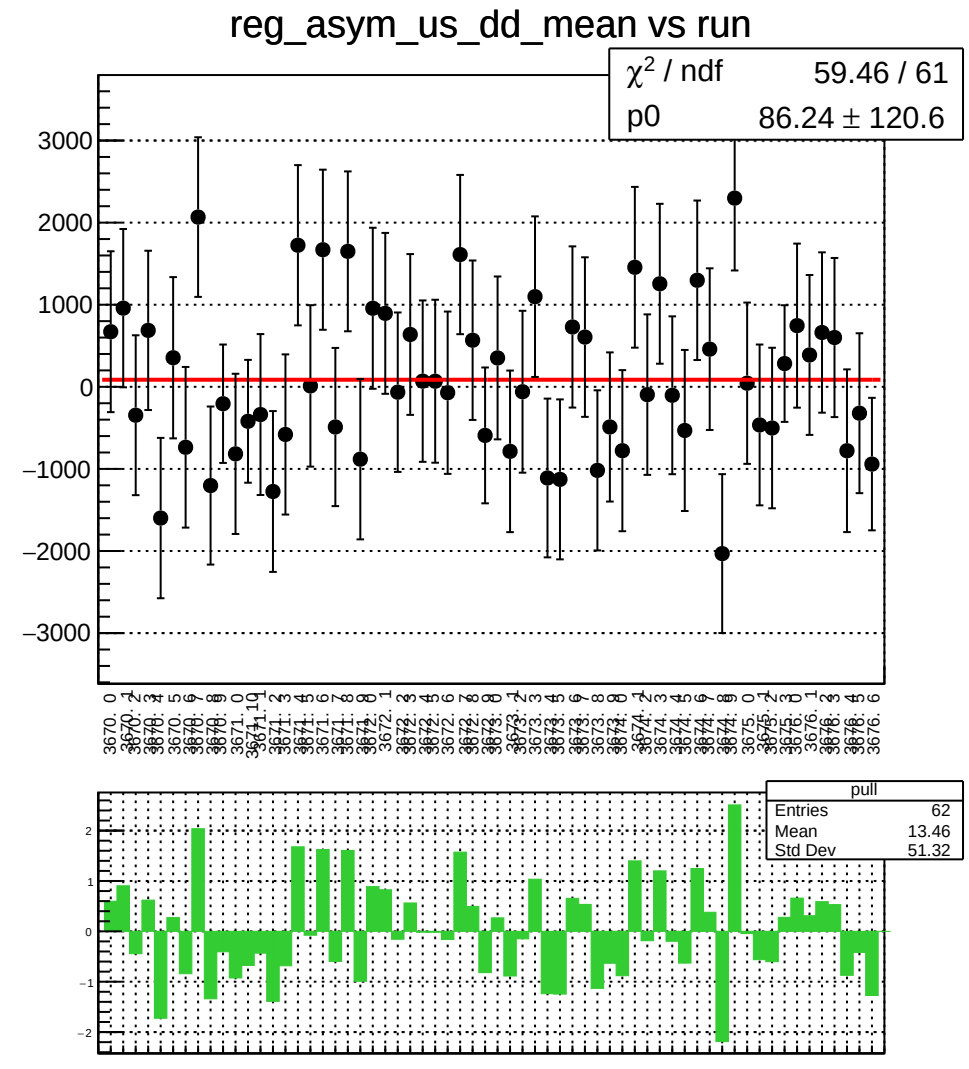
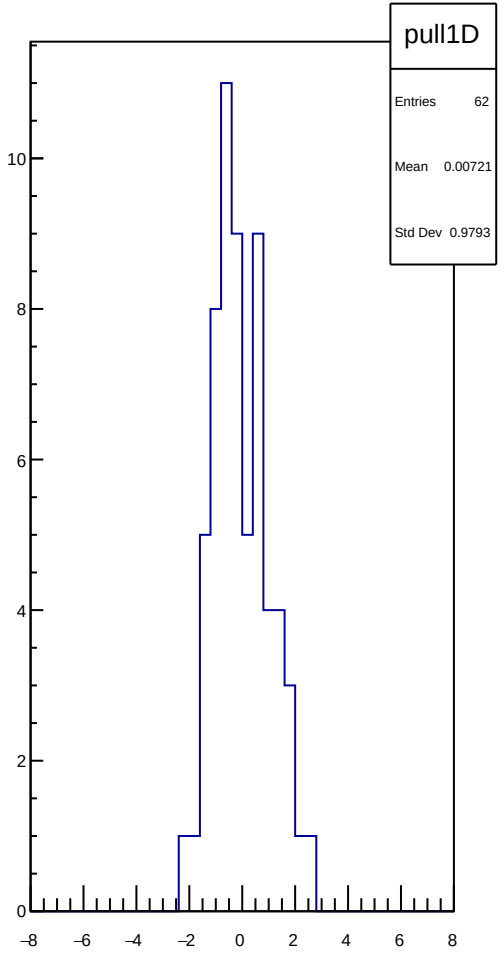
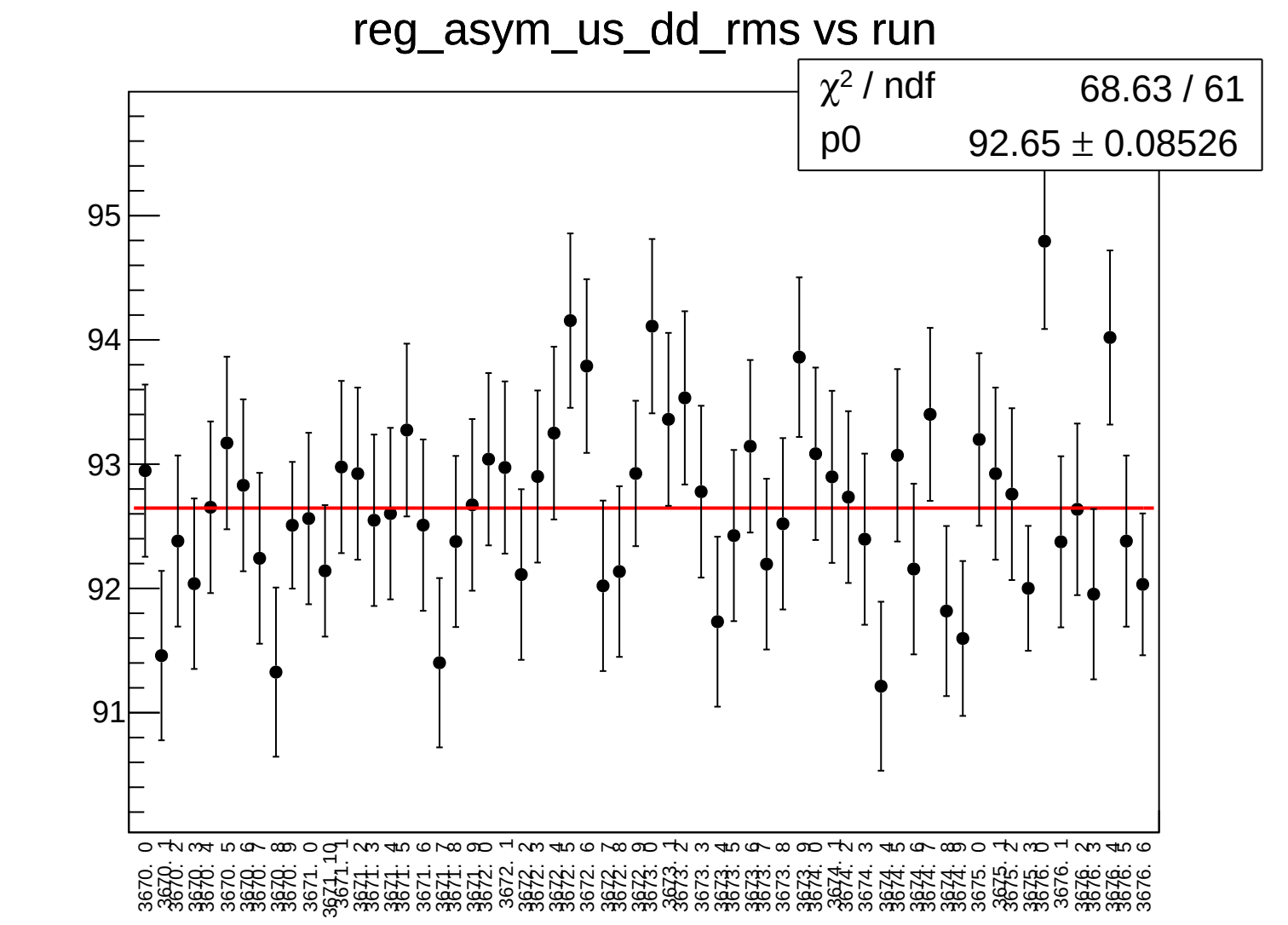
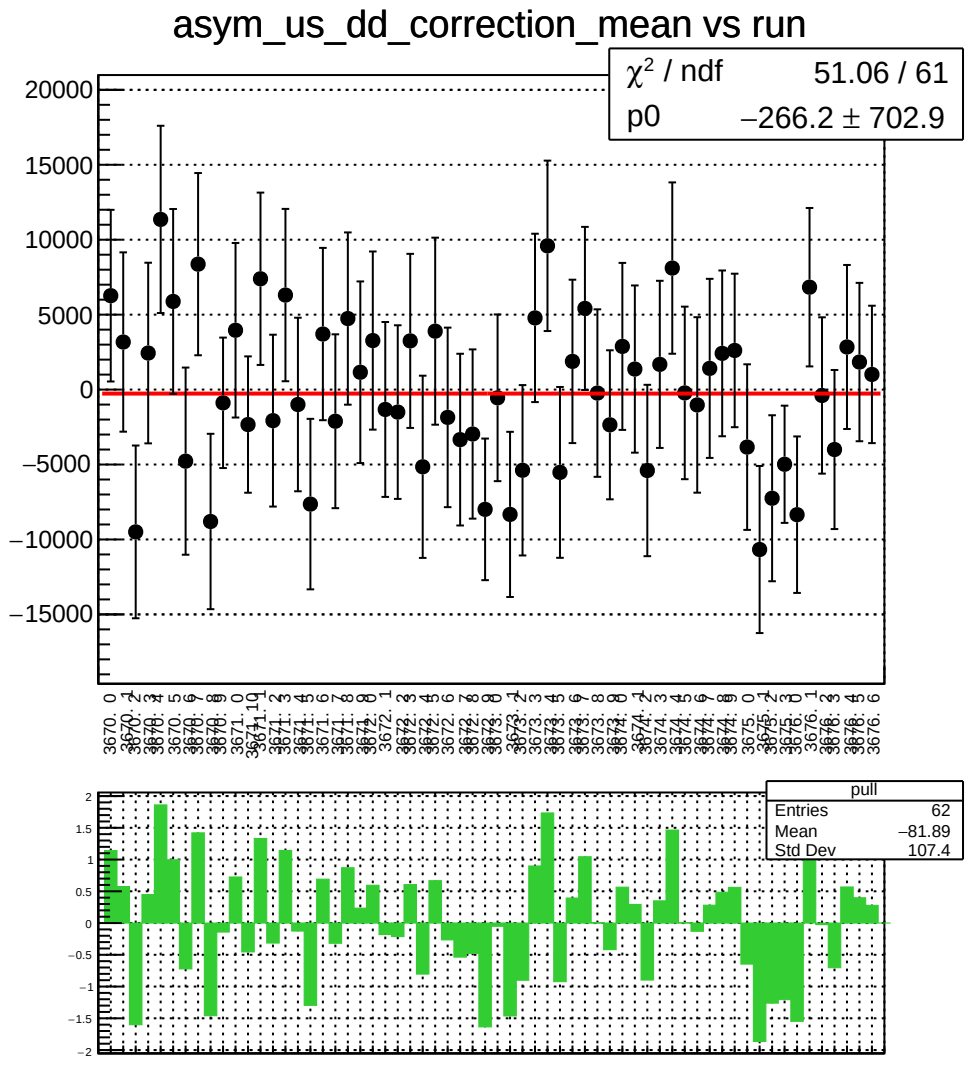
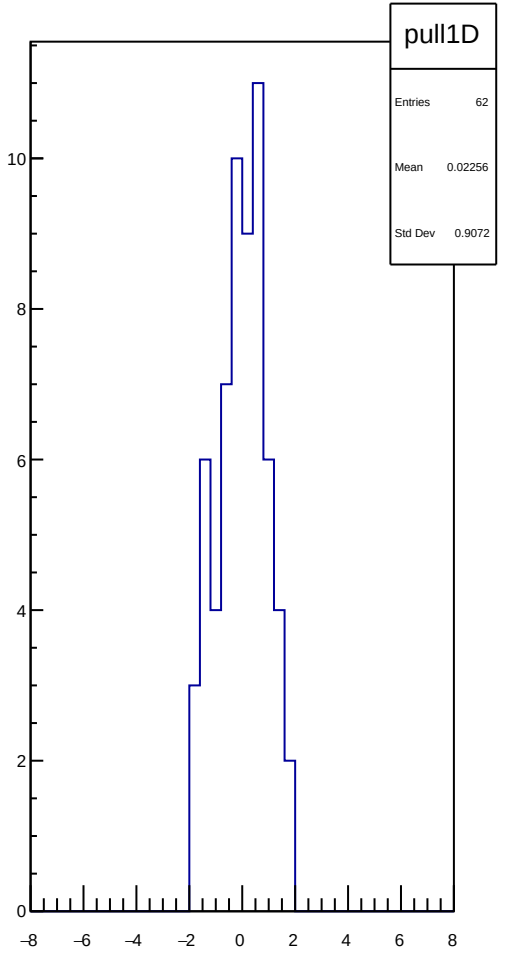
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

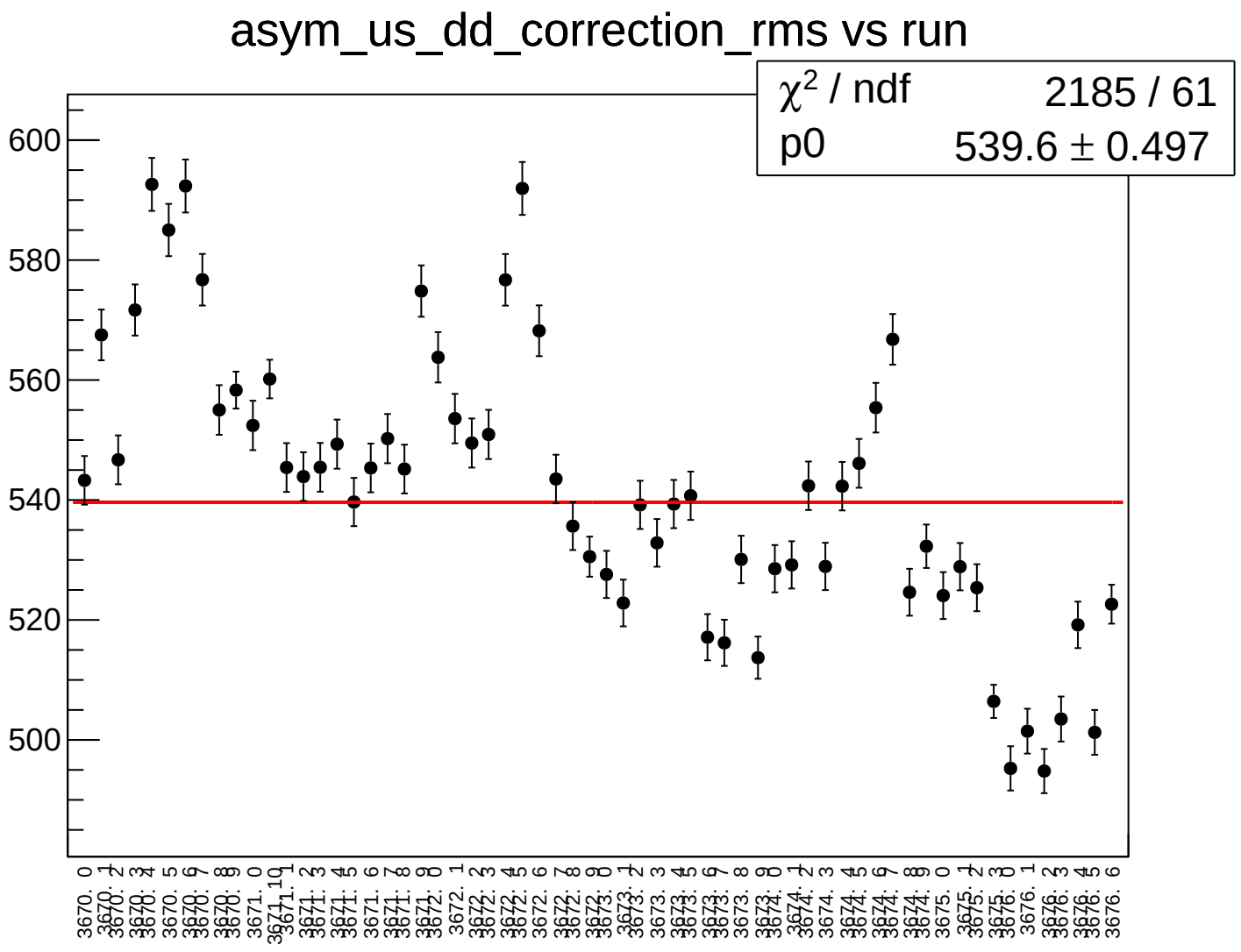

reg_asym_us_dd_mean vs run
χ² / ndf 59.46 / 61
p0 86.24 ± 120.6
pull
Entries 62
Mean 13.46
Std Dev 51.32

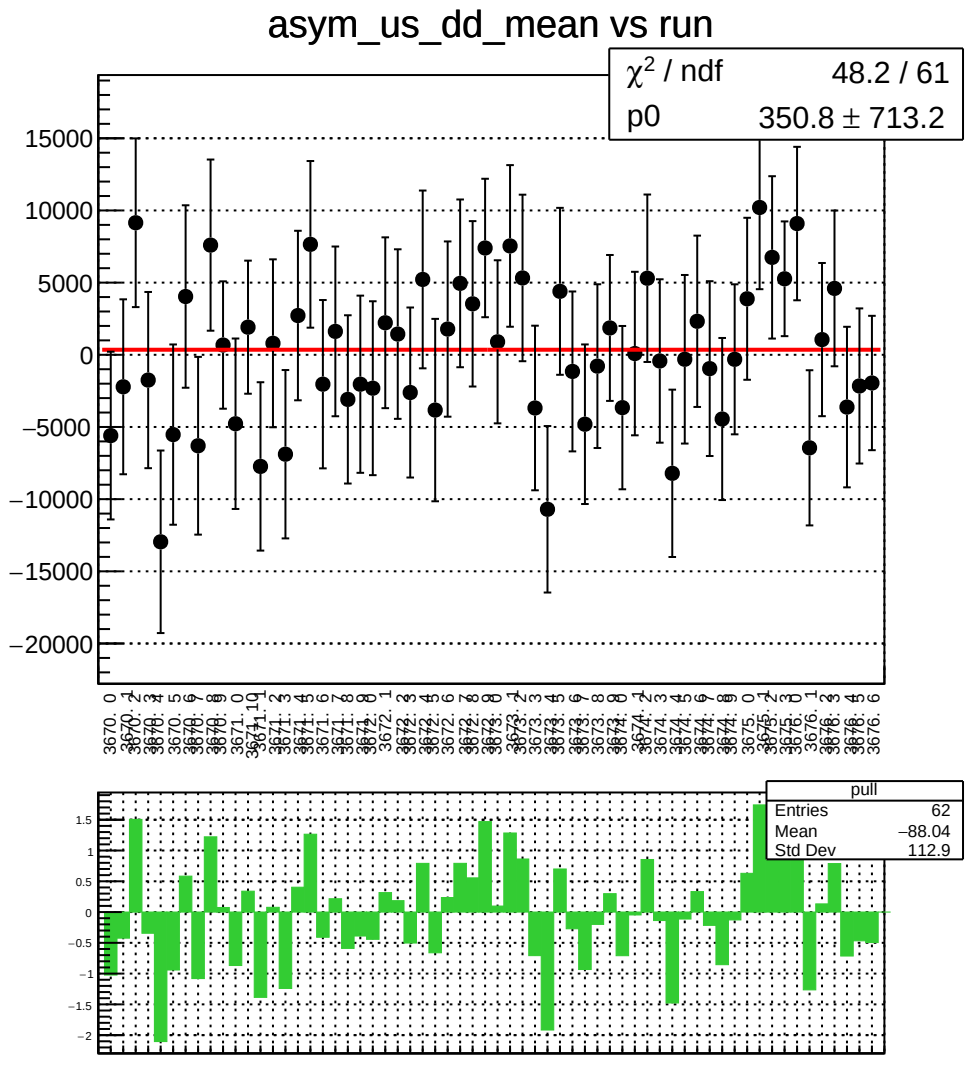

pull1D
Entries 62
Mean 0.00721
Std Dev 0.9793

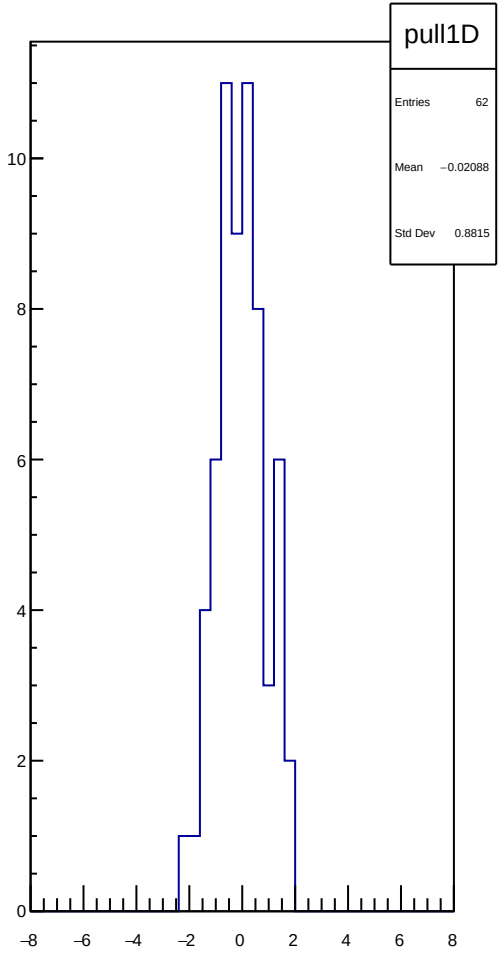

reg_asym_us_dd_rms vs run
χ^2 / ndf 68.63 / 61
p0 92.65 ± 0.08526
95
94
93
92
91

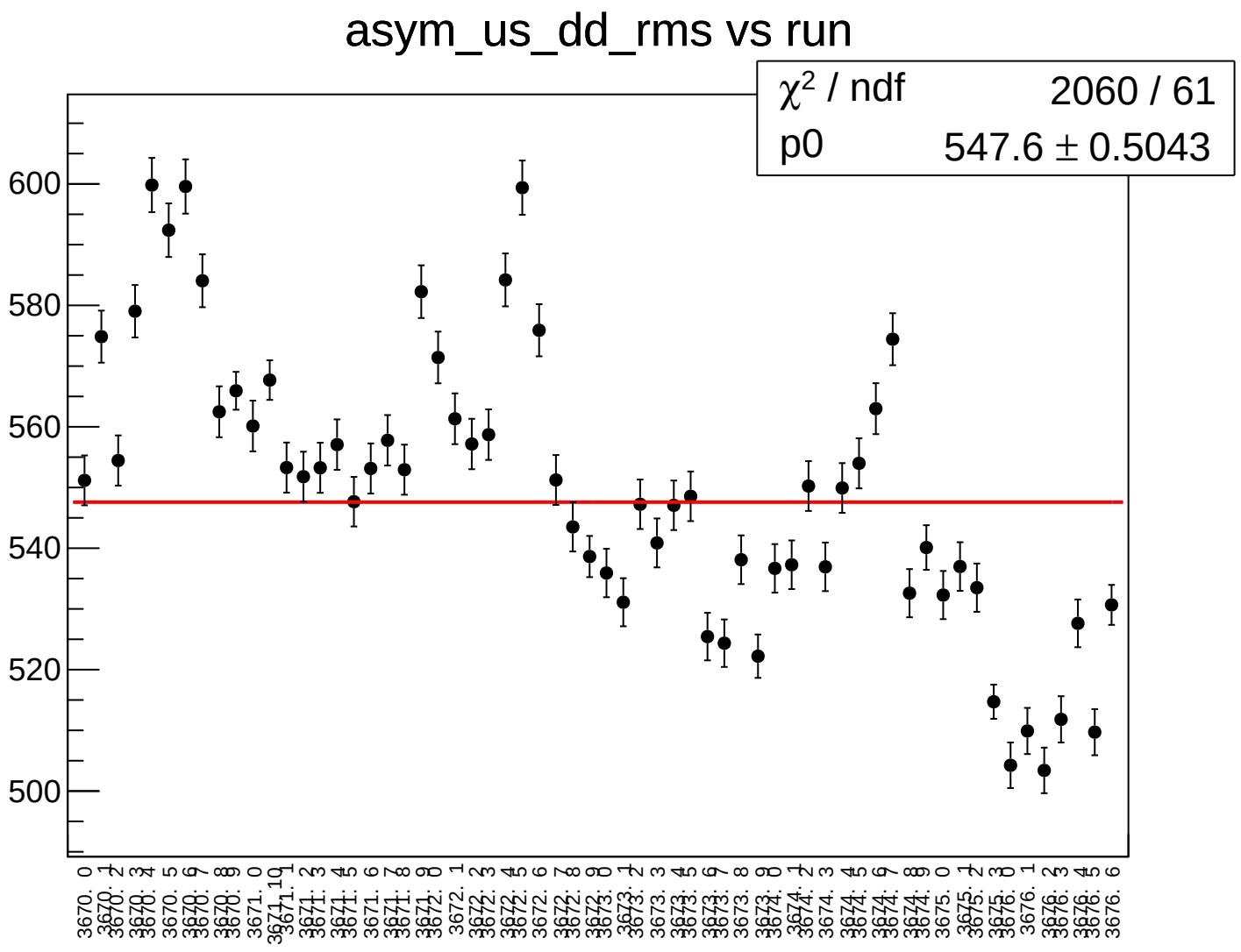

asym_us_dd_correction_mean vs run
χ² / ndf 51.06 / 61
p0 −266.2 ± 702.9
pull
Entries 62
Mean −81.89
Std Dev 107.4


pull1D
Entries 62
Mean 0.02256
Std Dev 0.9072


asym_us_dd_correction_rms vs run
χ² / ndf 2185 / 61
p0 539.6 ± 0.497
600
580
560
540
520
500


asym_us_dd_mean vs run
χ² / ndf 48.2 / 61
p0 350.8 ± 713.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 62
Mean −88.04
Std Dev 112.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 62
Mean −0.02088
Std Dev 0.8815
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_rms vs run
χ^2 / ndf 2060 / 61
p0 547.6 ± 0.5043
600
580
560
540
520
500
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
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3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
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3672. 2
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3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
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3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
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3675. 2
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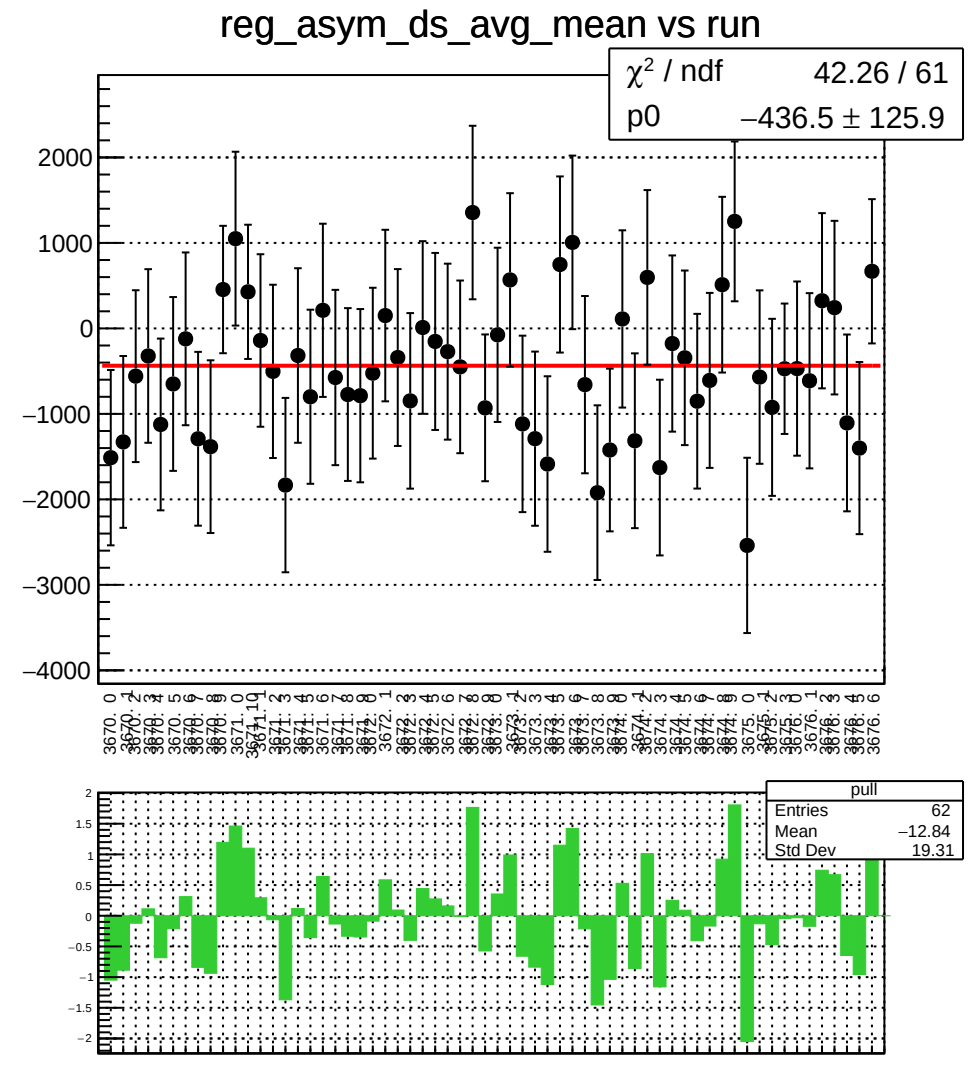
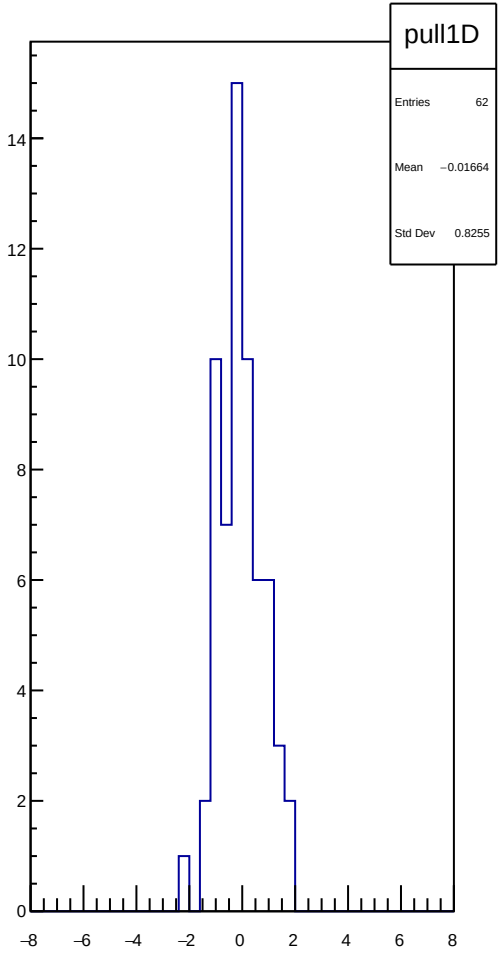
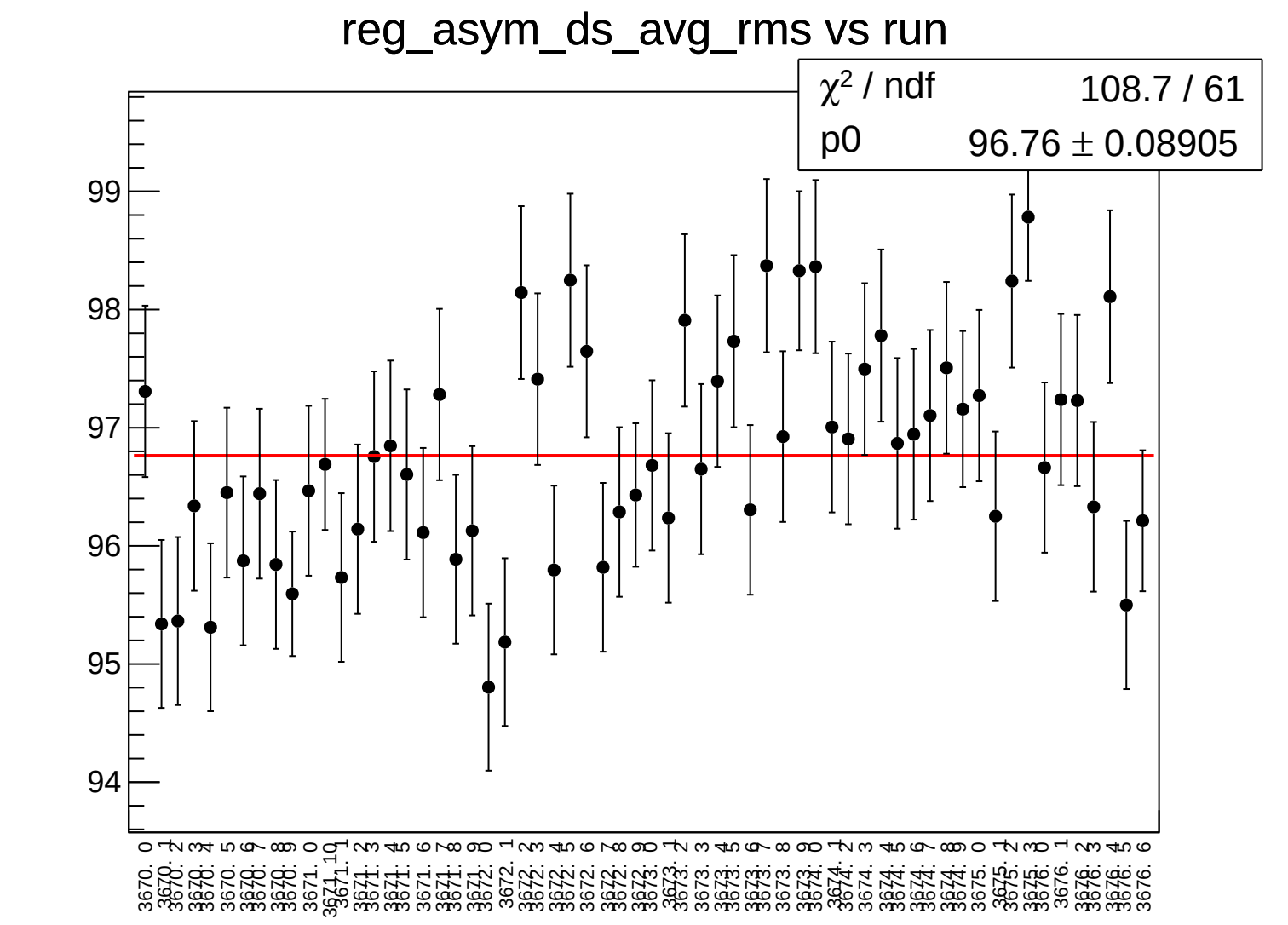
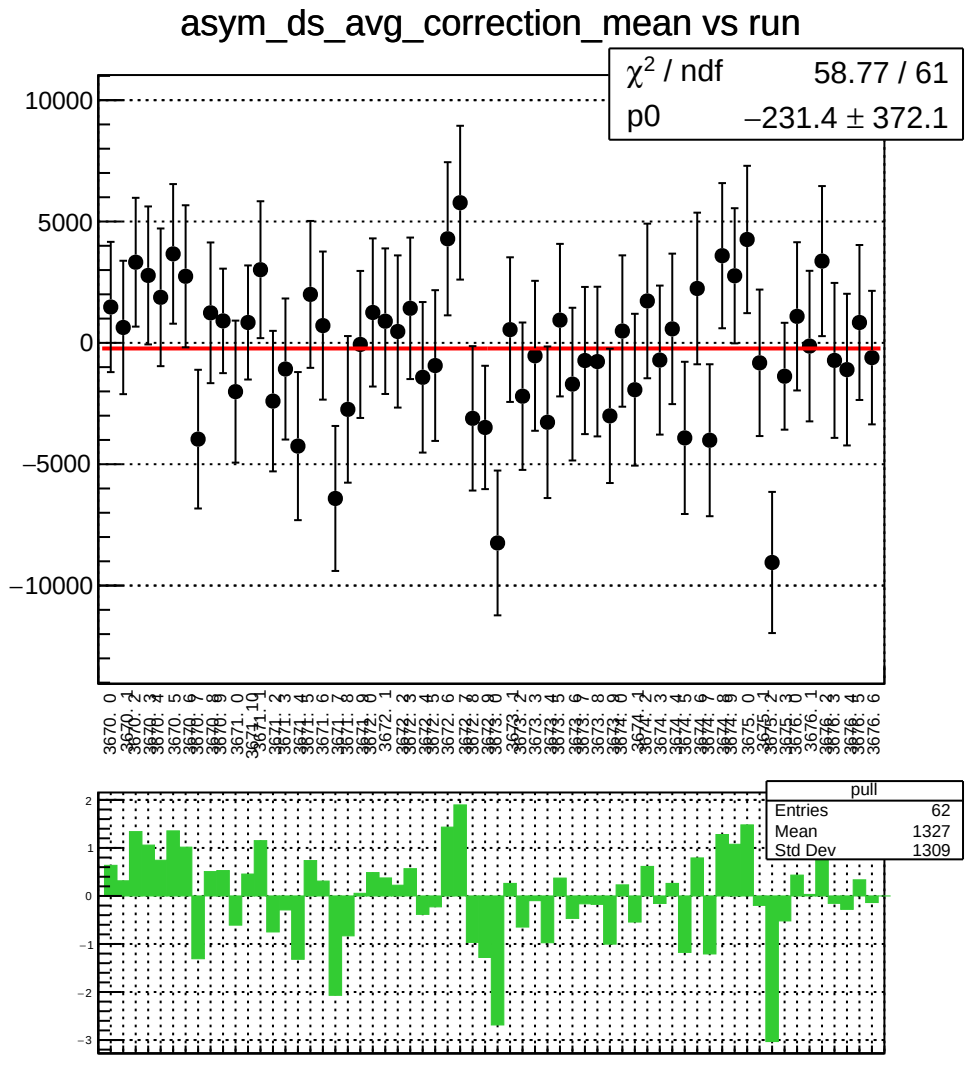
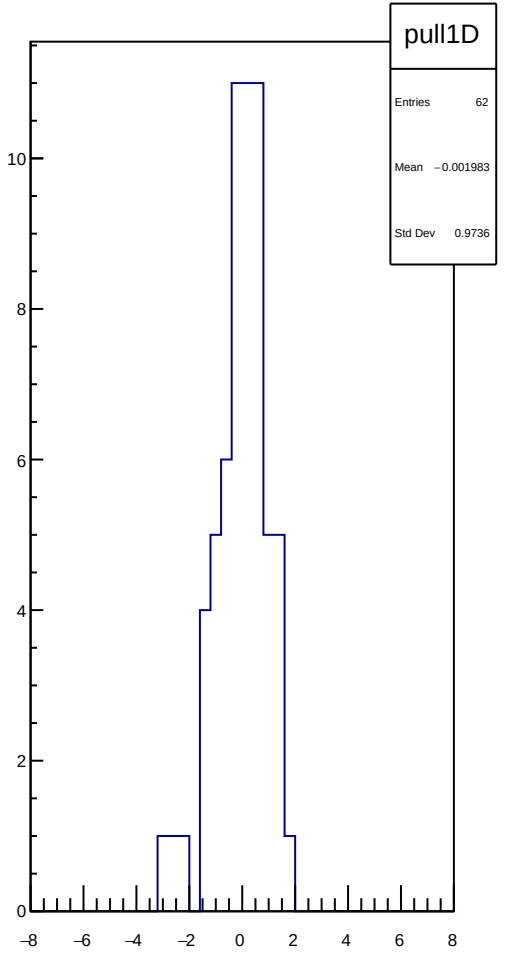
3676. 6

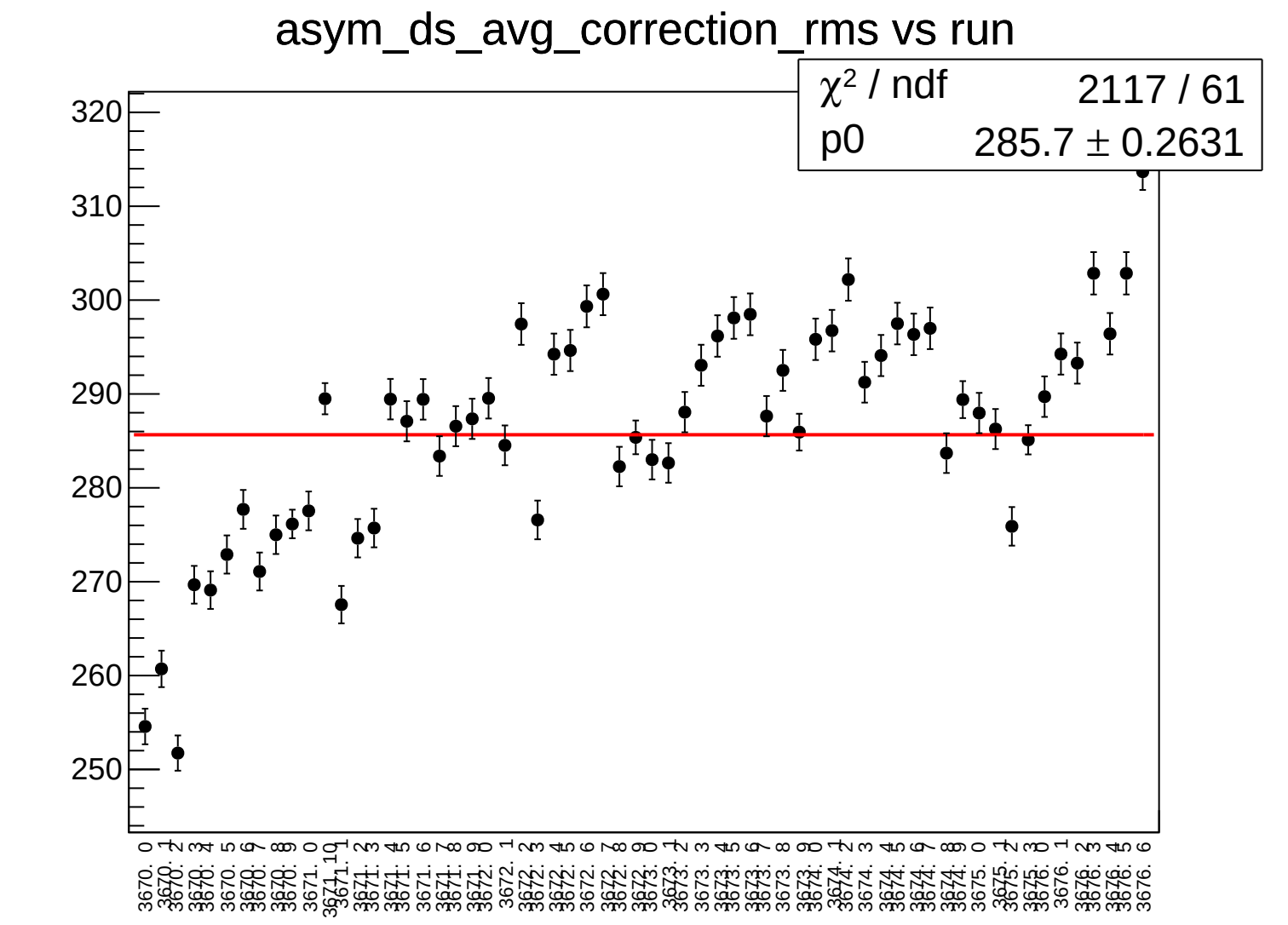

reg_asym_ds_avg_mean vs run
χ² / ndf 42.26 / 61
p0 −436.5 ± 125.9
pull
Entries 62
Mean −12.84
Std Dev 19.31

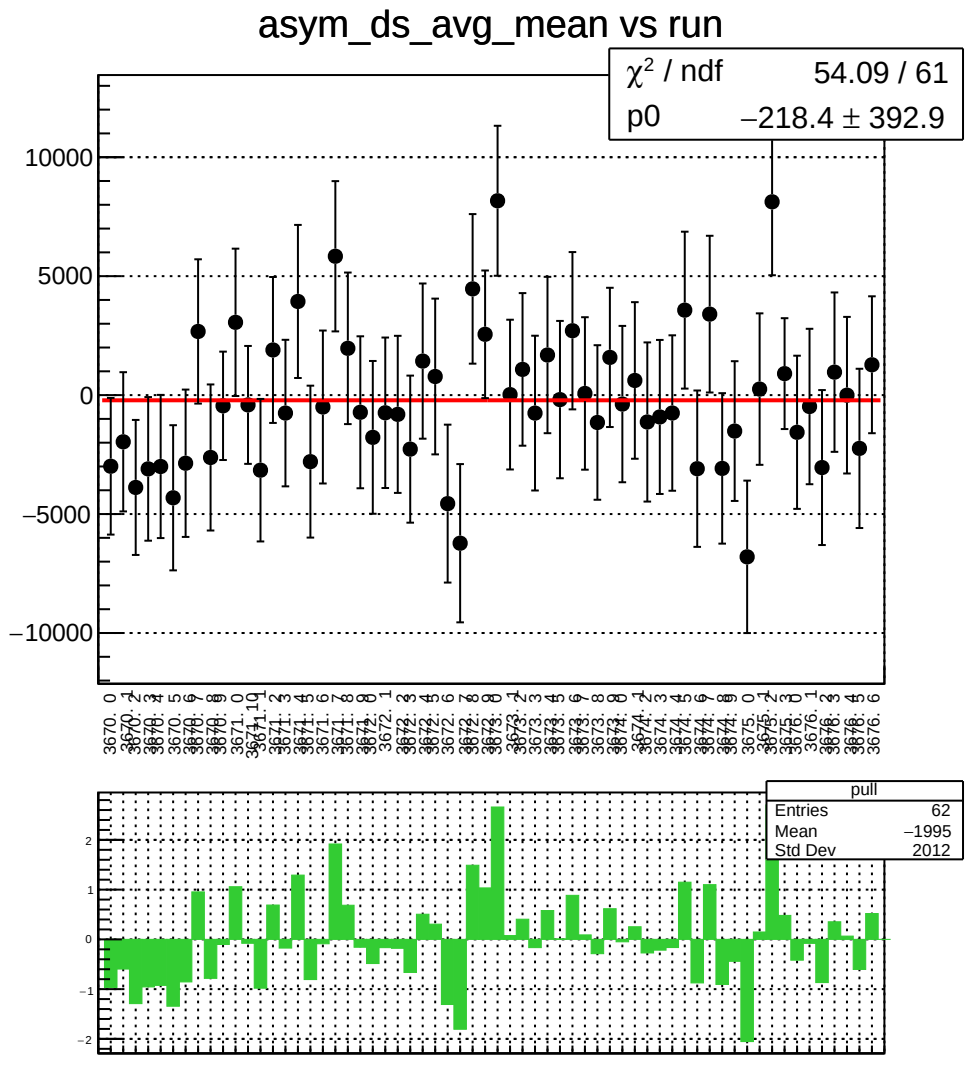

pull1D
Entries 62
Mean −0.01664
Std Dev 0.8255

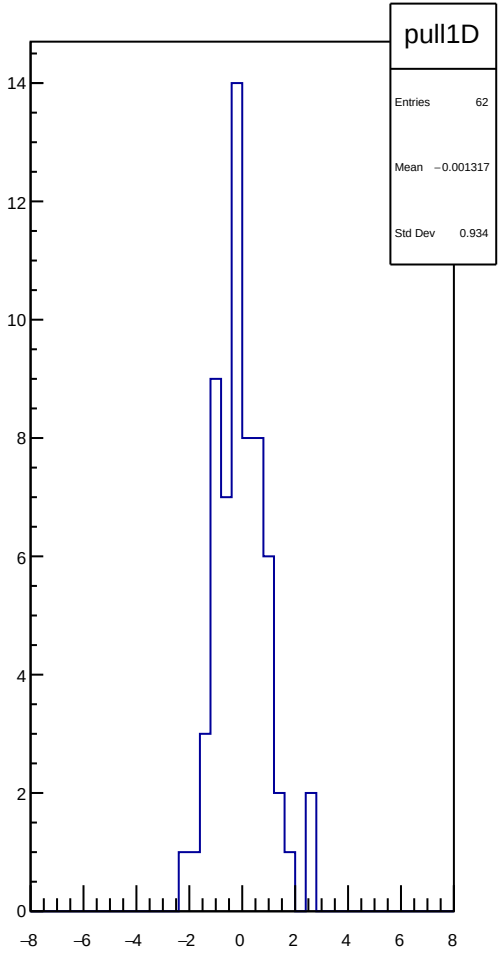

reg_asym_ds_avg_rms vs run
χ² / ndf 108.7 / 61
p0 96.76 ± 0.08905
99
98
97
96
95
94
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

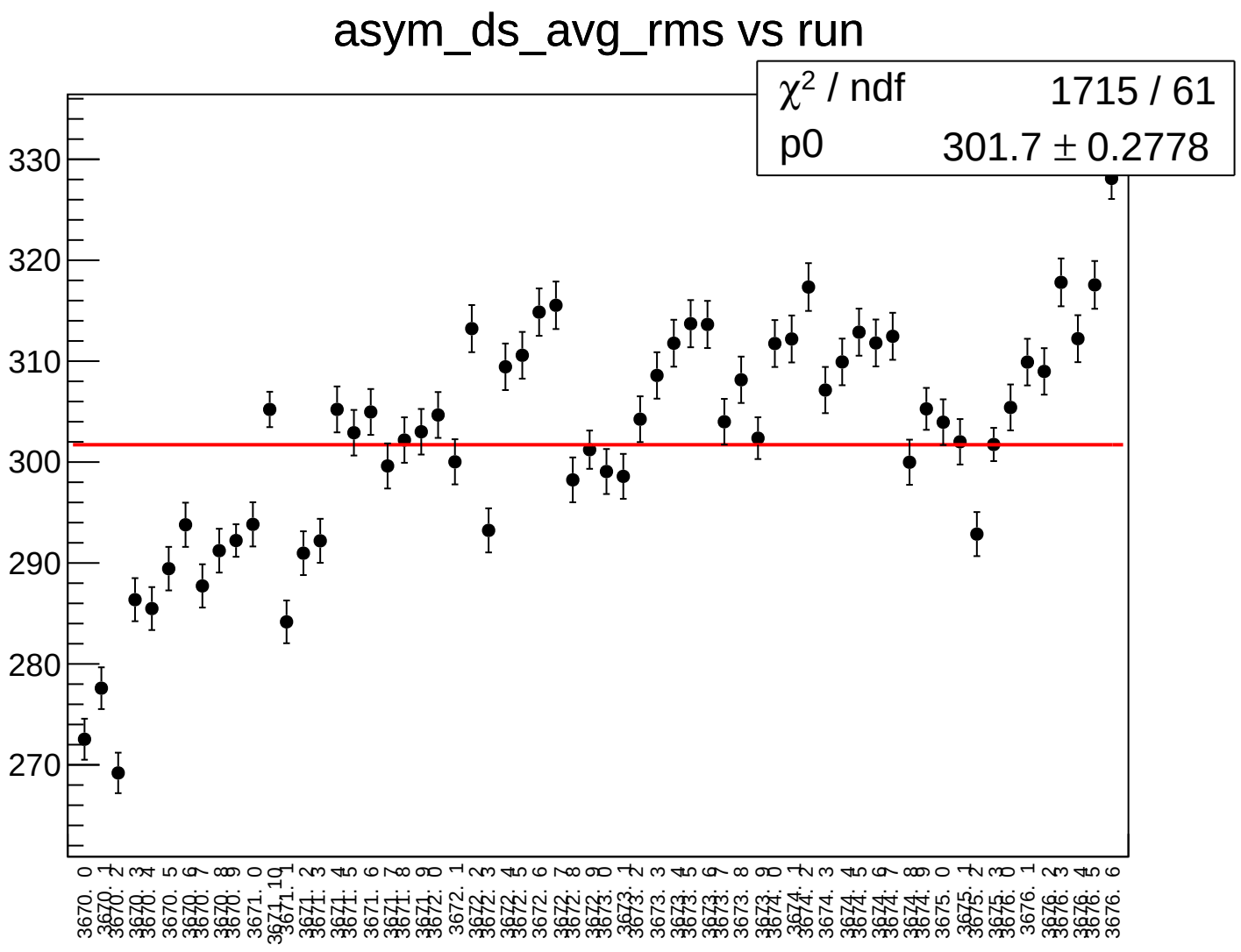

asym_ds_avg_correction_mean vs run
χ² / ndf 58.77 / 61
p0 −231.4 ± 372.1
10000
5000
0
−5000
−10000
pull
Entries 62
Mean 1327
Std Dev 1309
2
1
0
−1
−2
−3

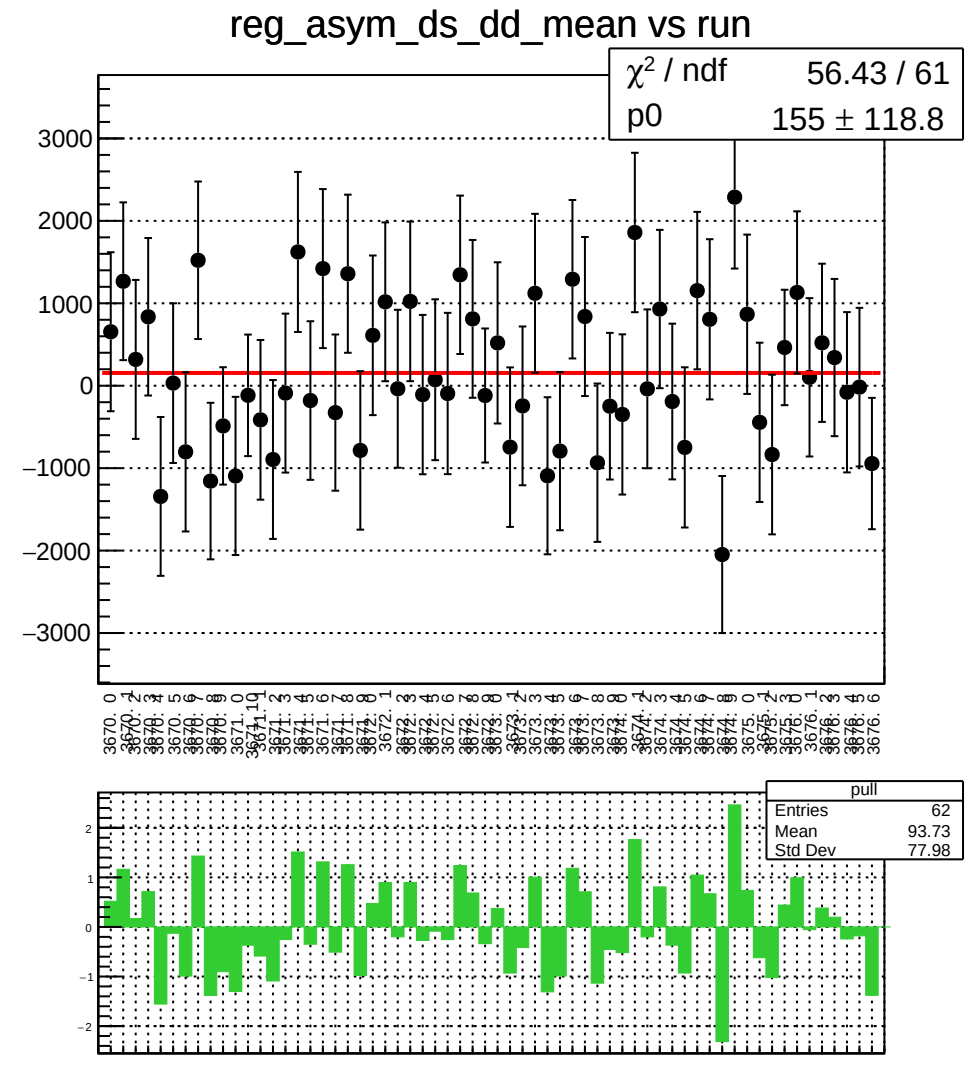

pull1D
Entries 62
Mean −0.001983
Std Dev 0.9736
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

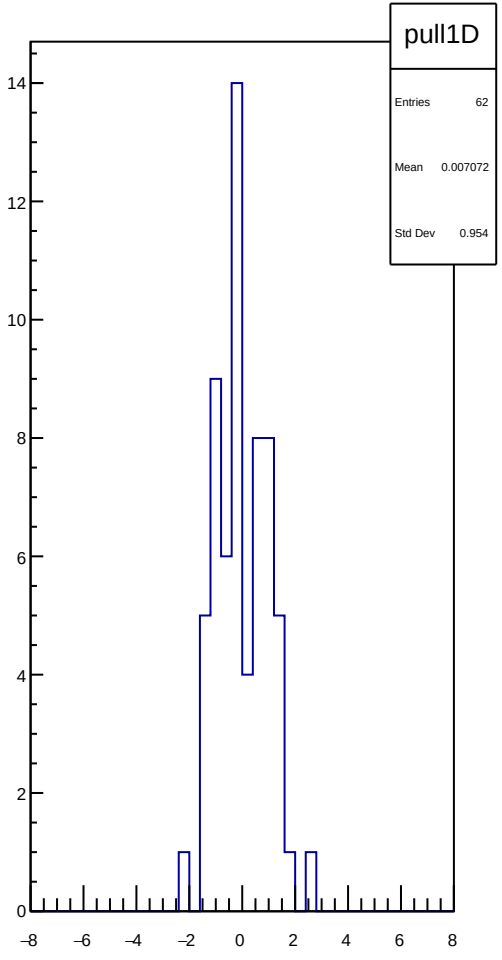

asym_ds_avg_correction_rms vs run
χ² / ndf 2117 / 61
p0 285.7 ± 0.2631
320
310
300
290
280
270
260
250
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

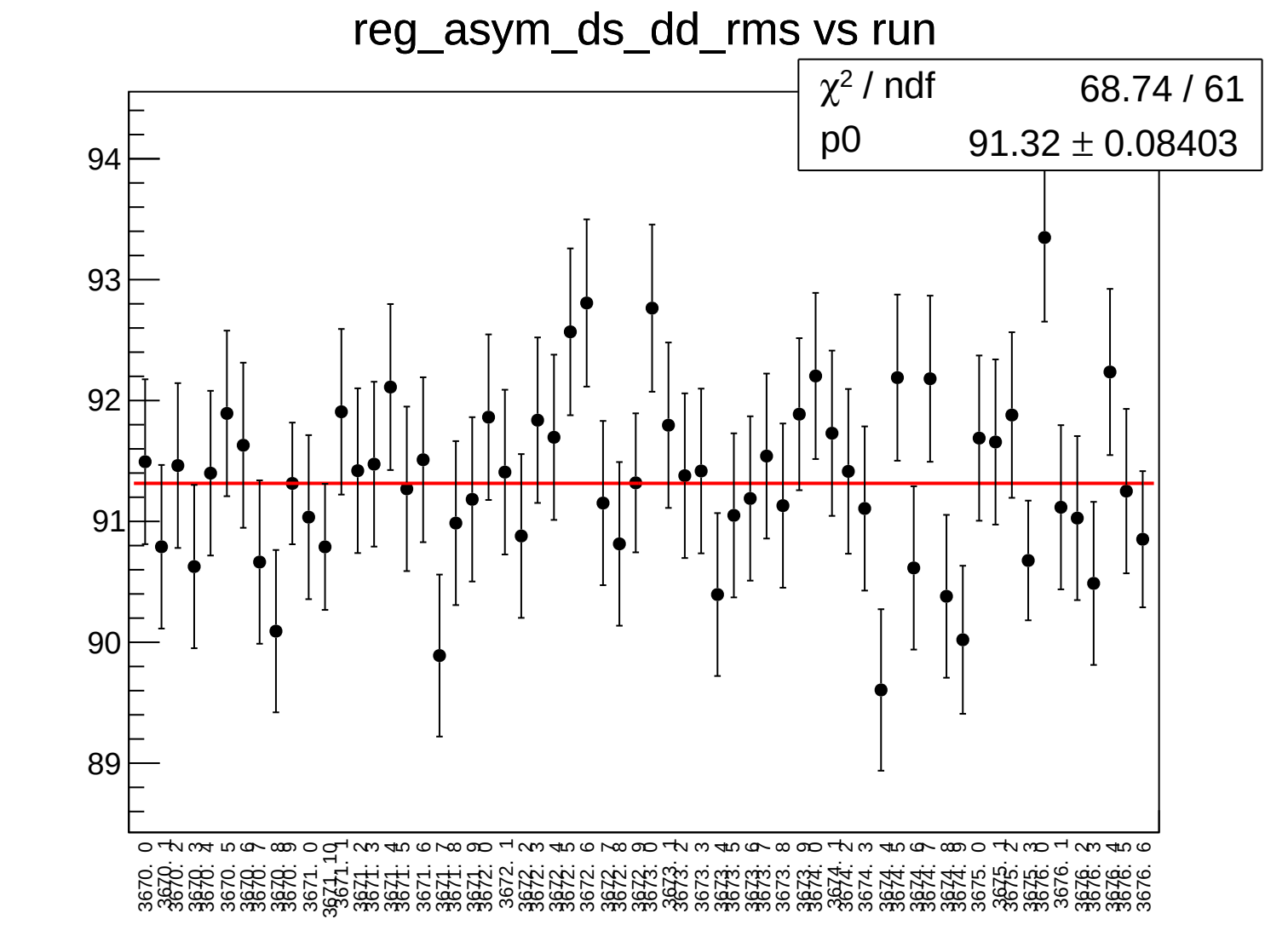

asym_ds_avg_mean vs run
χ² / ndf 54.09 / 61
p0 −218.4 ± 392.9
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −1995
Std Dev 2012
2
1
0
−1
−2

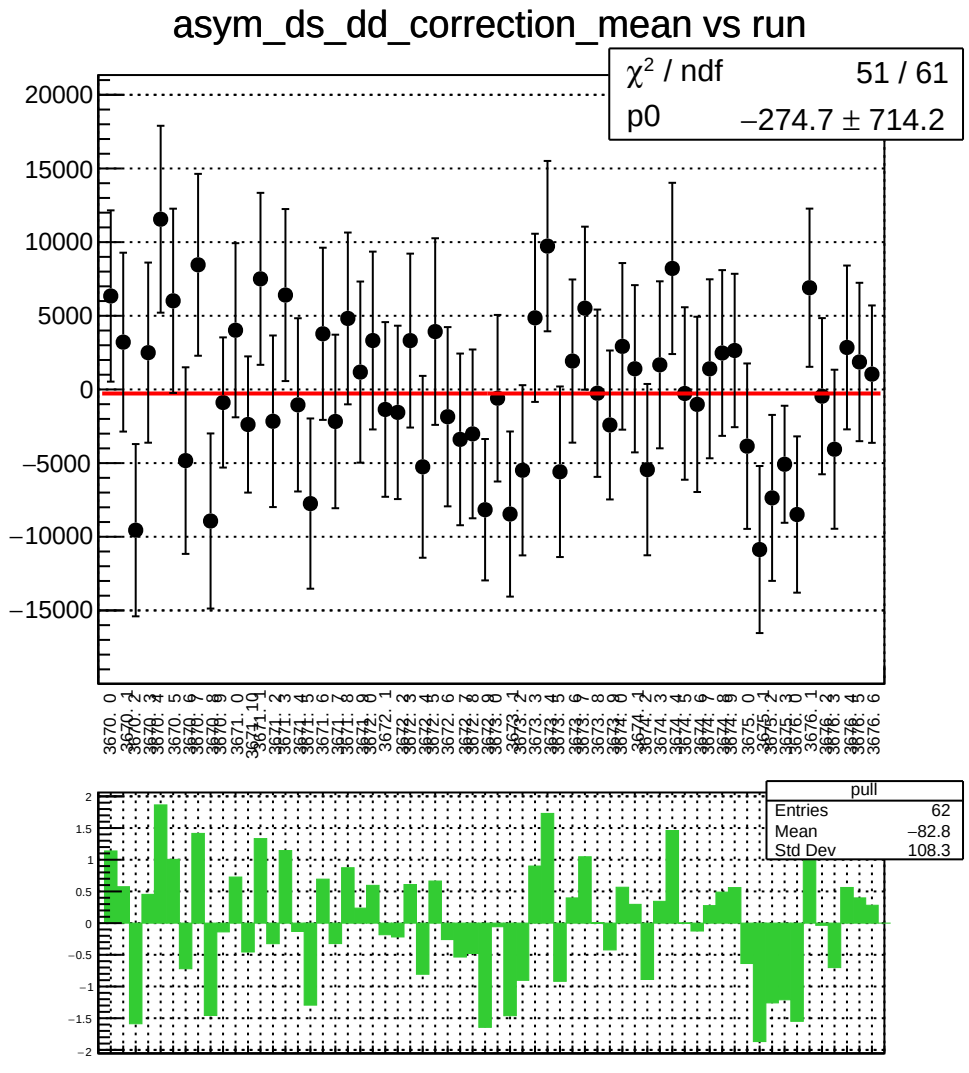

pull1D
Entries 62
Mean −0.001317
Std Dev 0.934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

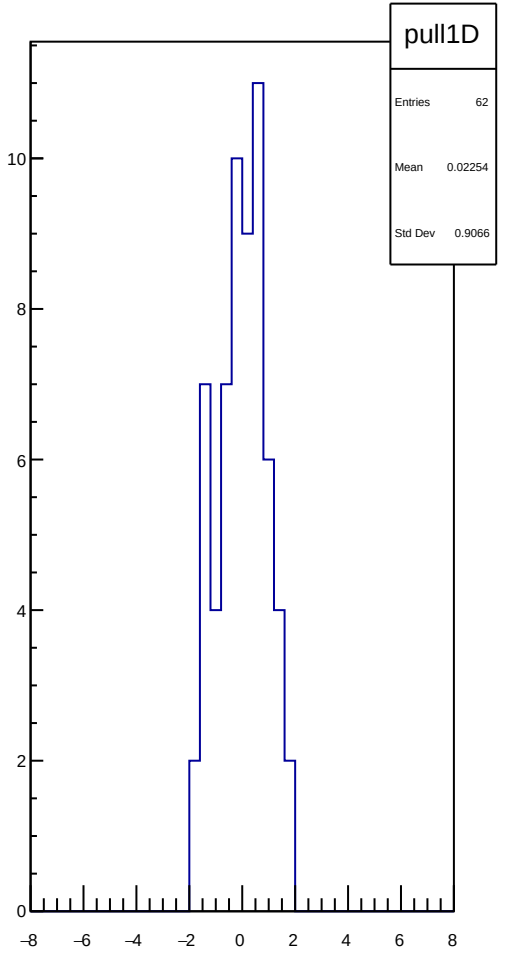

asym_ds_avg_rms vs run
χ² / ndf 1715 / 61
p0 301.7 ± 0.2778
330
320
310
300
290
280
270
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

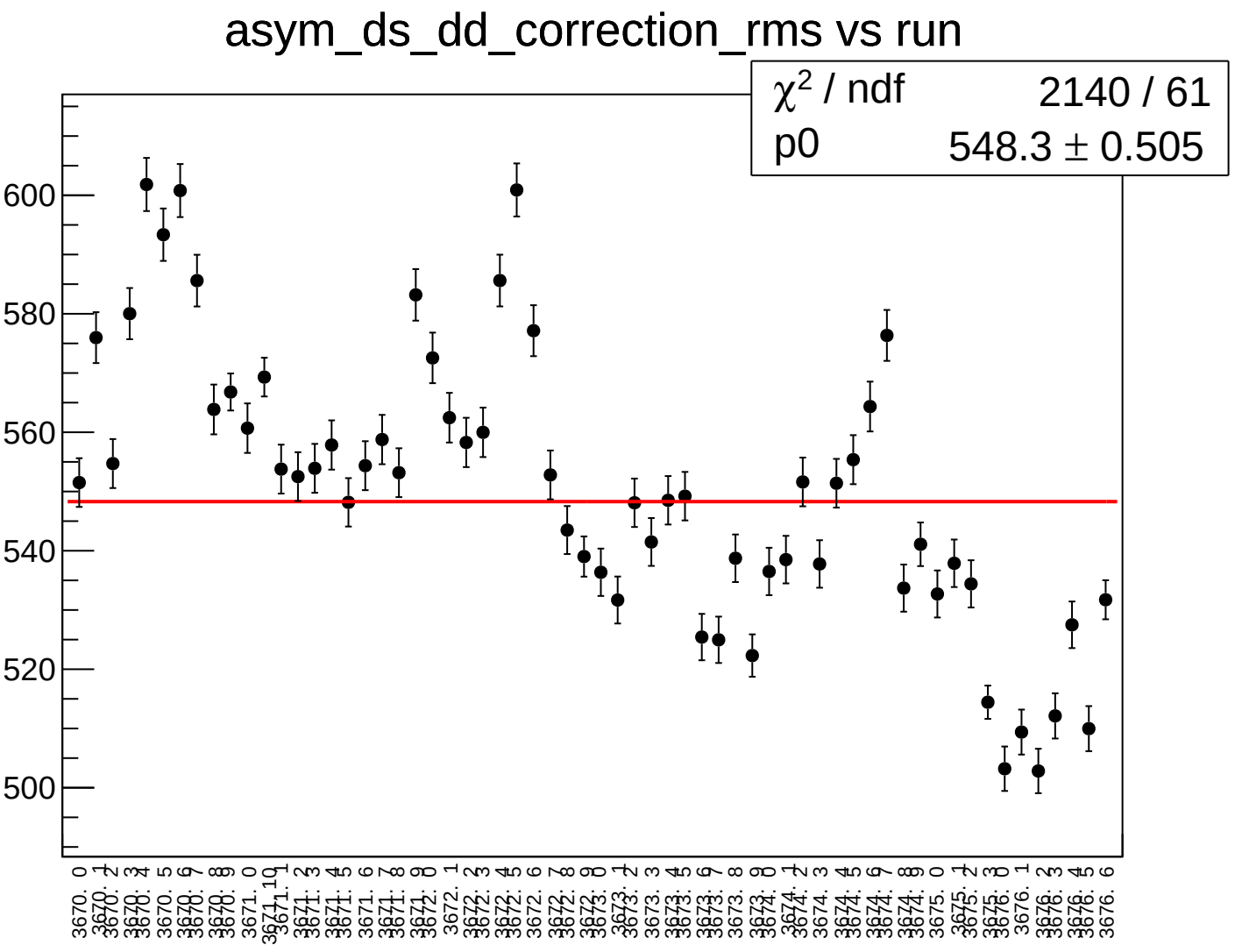

reg_asym_ds_dd_mean vs run
χ² / ndf 56.43 / 61
p0 155 ± 118.8
pull
Entries 62
Mean 93.73
Std Dev 77.98

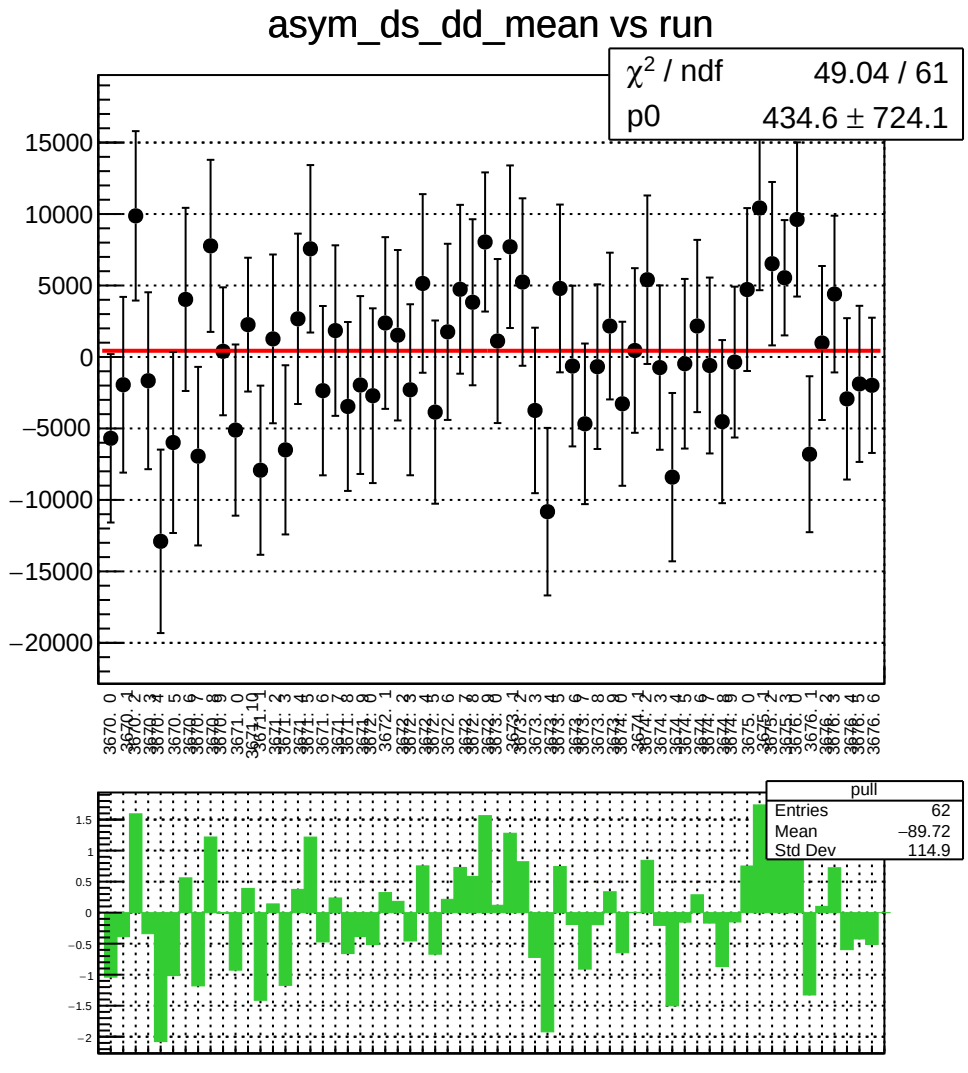

pull1D
Entries 62
Mean 0.007072
Std Dev 0.954

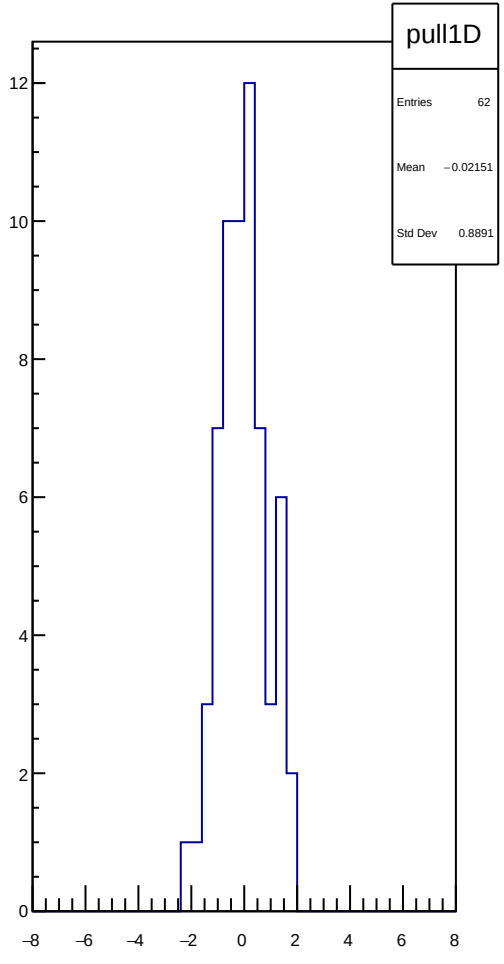

reg_asym_ds_dd_rms vs run
χ² / ndf 68.74 / 61
p0 91.32 ± 0.08403
94
93
92
91
90
89
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 10
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

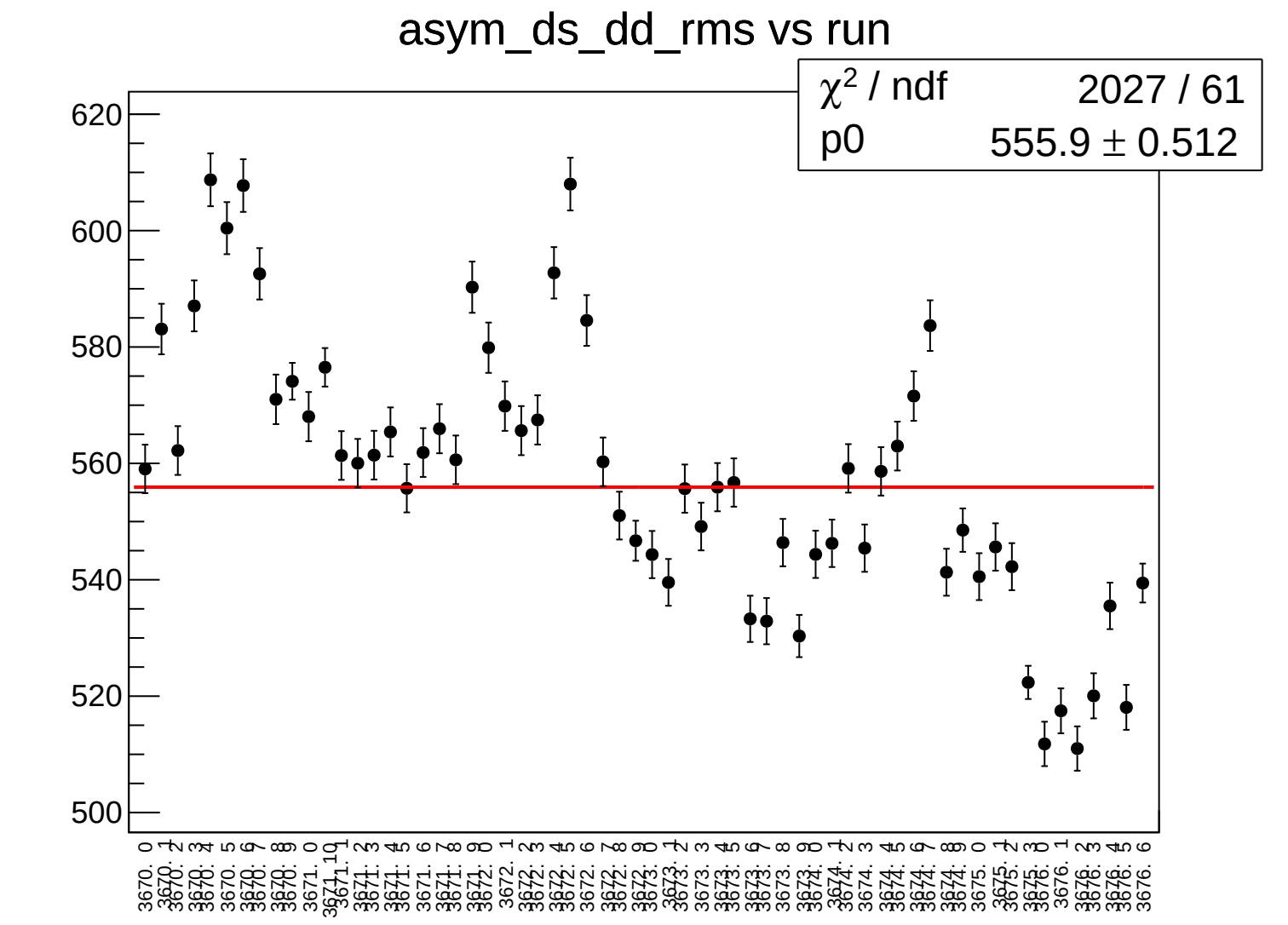

asym_ds_dd_correction_mean vs run
χ² / ndf 51 / 61
p0 −274.7 ± 714.2
pull
Entries 62
Mean −82.8
Std Dev 108.3

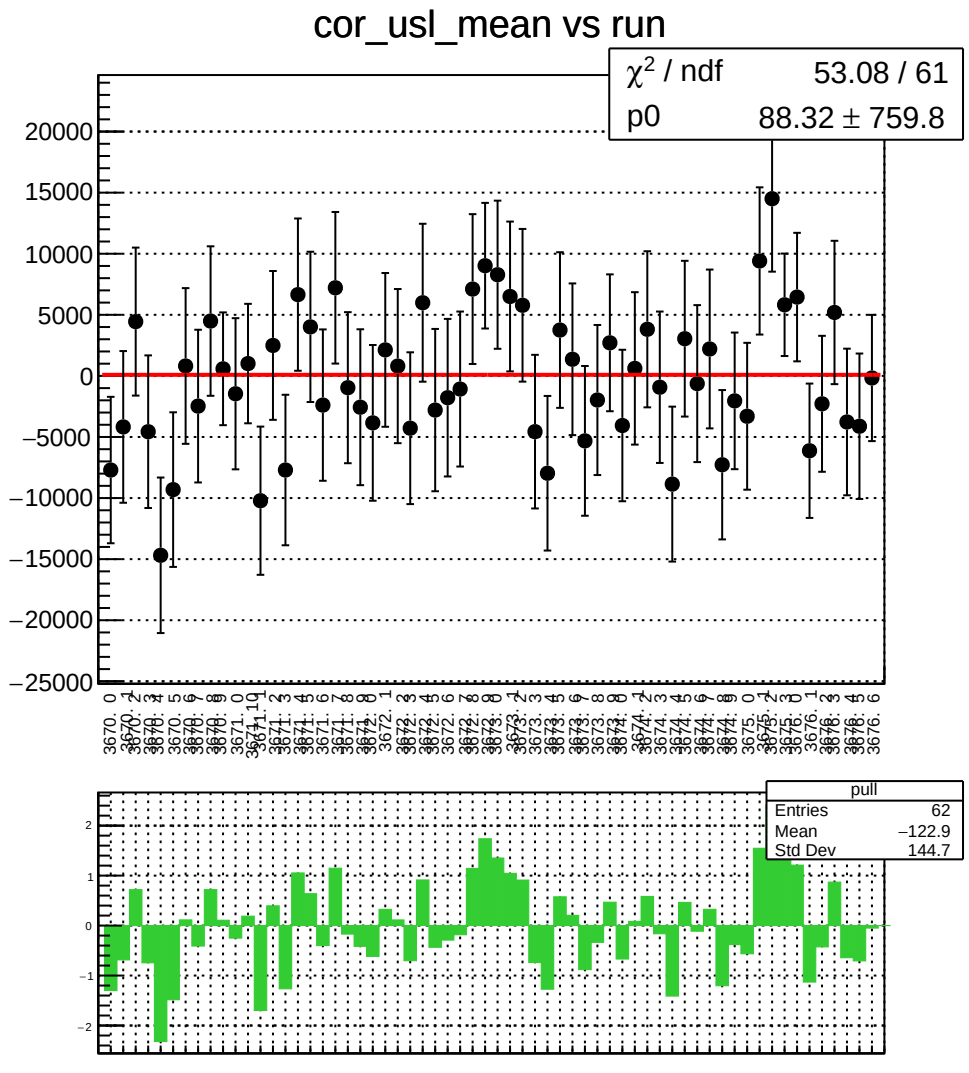

pull1D
Entries 62
Mean 0.02254
Std Dev 0.9066

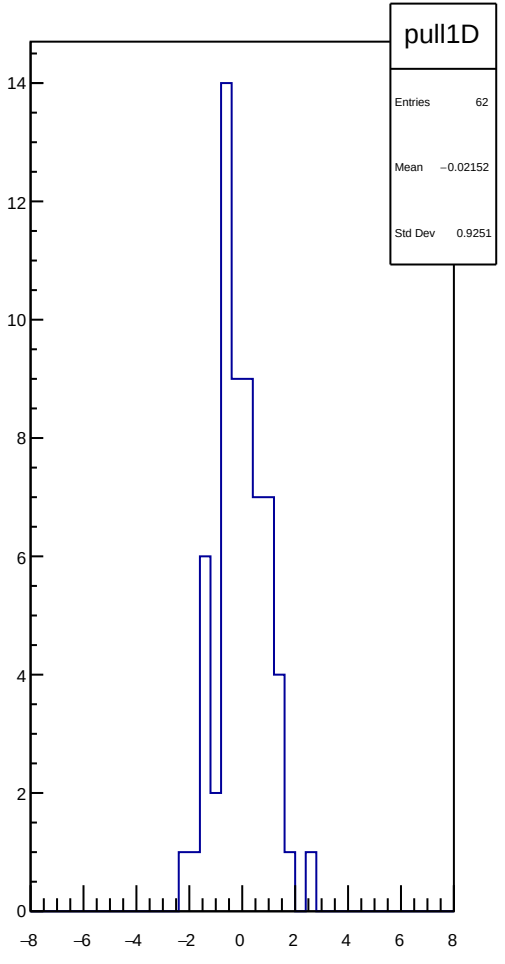

asym_ds_dd_correction_rms vs run
χ^2 / ndf 2140 / 61
p0 548.3 ± 0.505
600
580
560
540
520
500

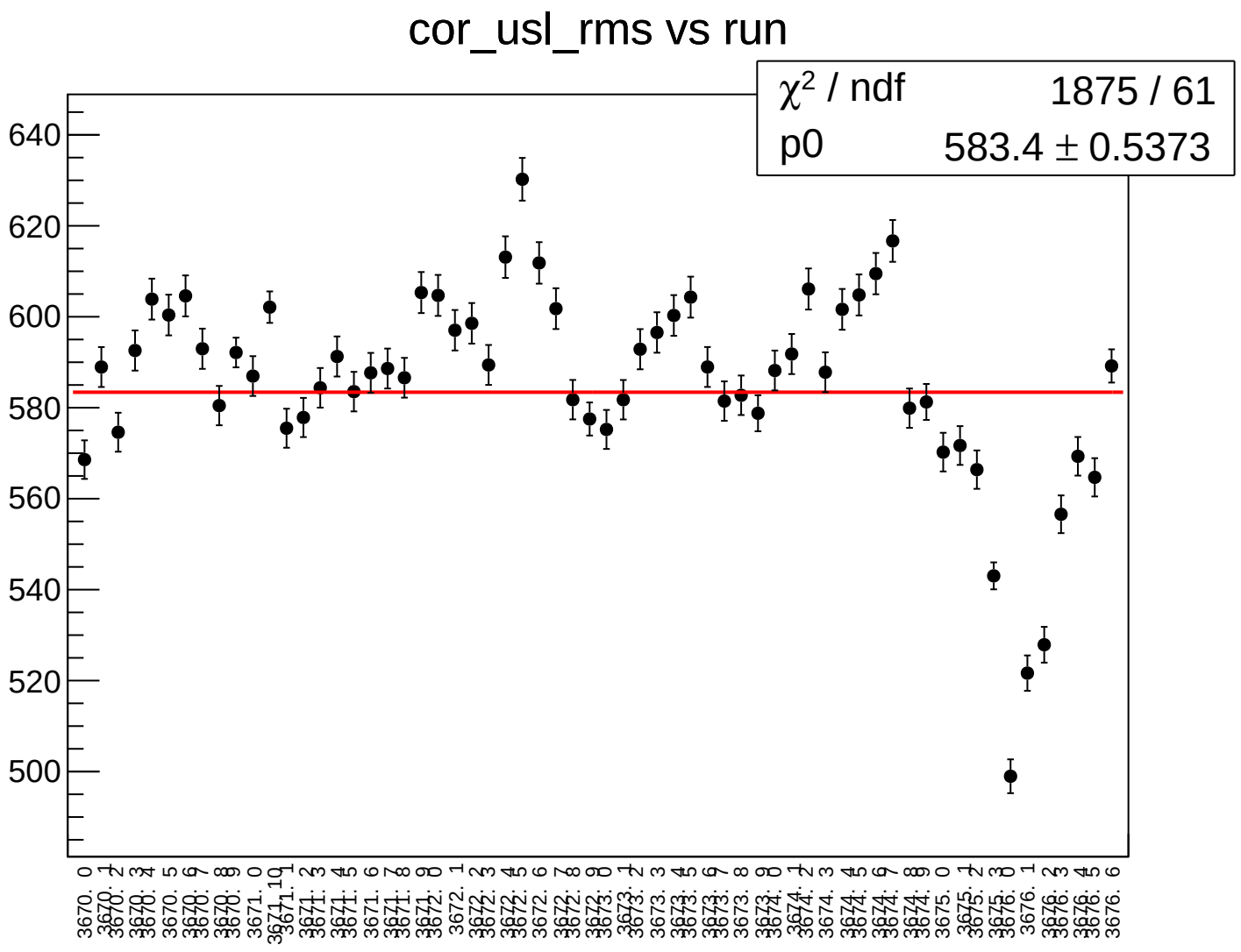

asym_ds_dd_mean vs run
χ² / ndf 49.04 / 61
p0 434.6 ± 724.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 62
Mean −89.72
Std Dev 114.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

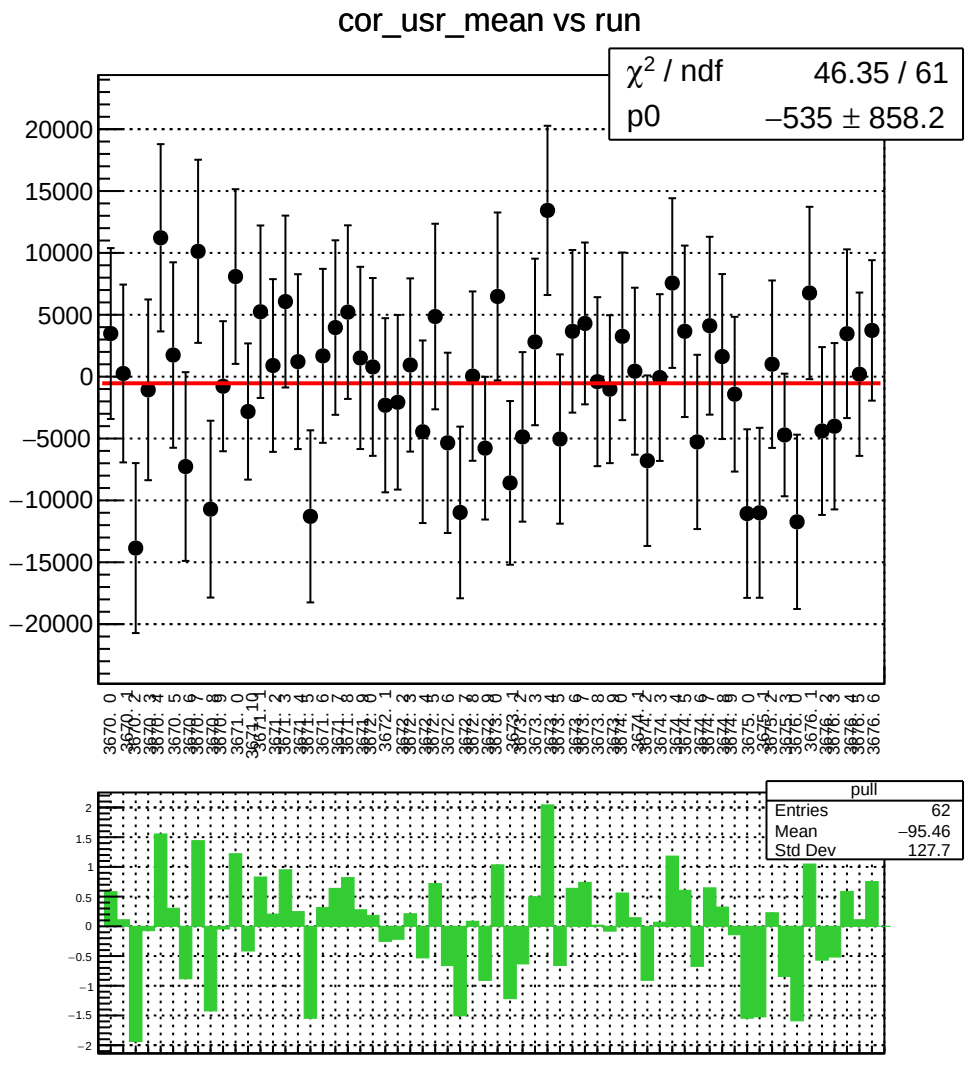

pull1D
Entries 62
Mean −0.02151
Std Dev 0.8891
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

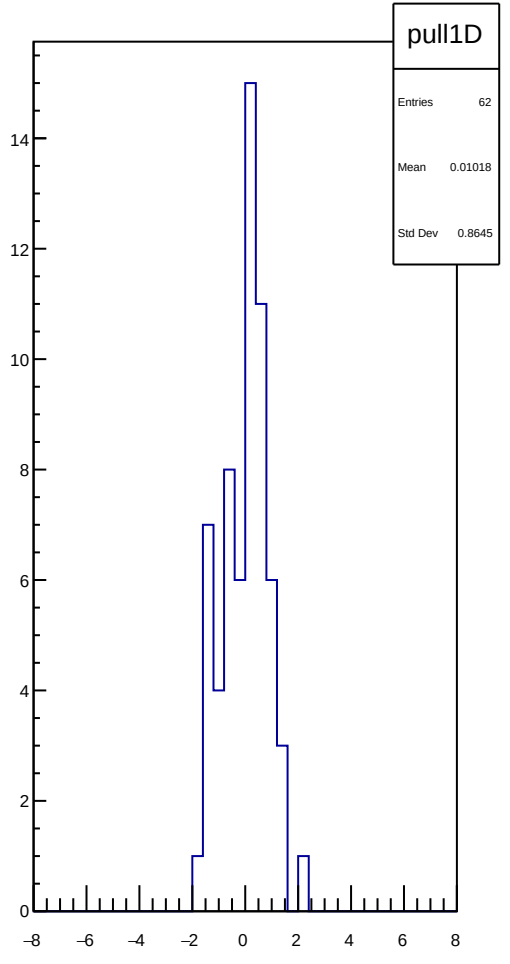

asym_ds_dd_rms vs run
χ² / ndf 2027 / 61
p0 555.9 ± 0.512
620
600
580
560
540
520
500

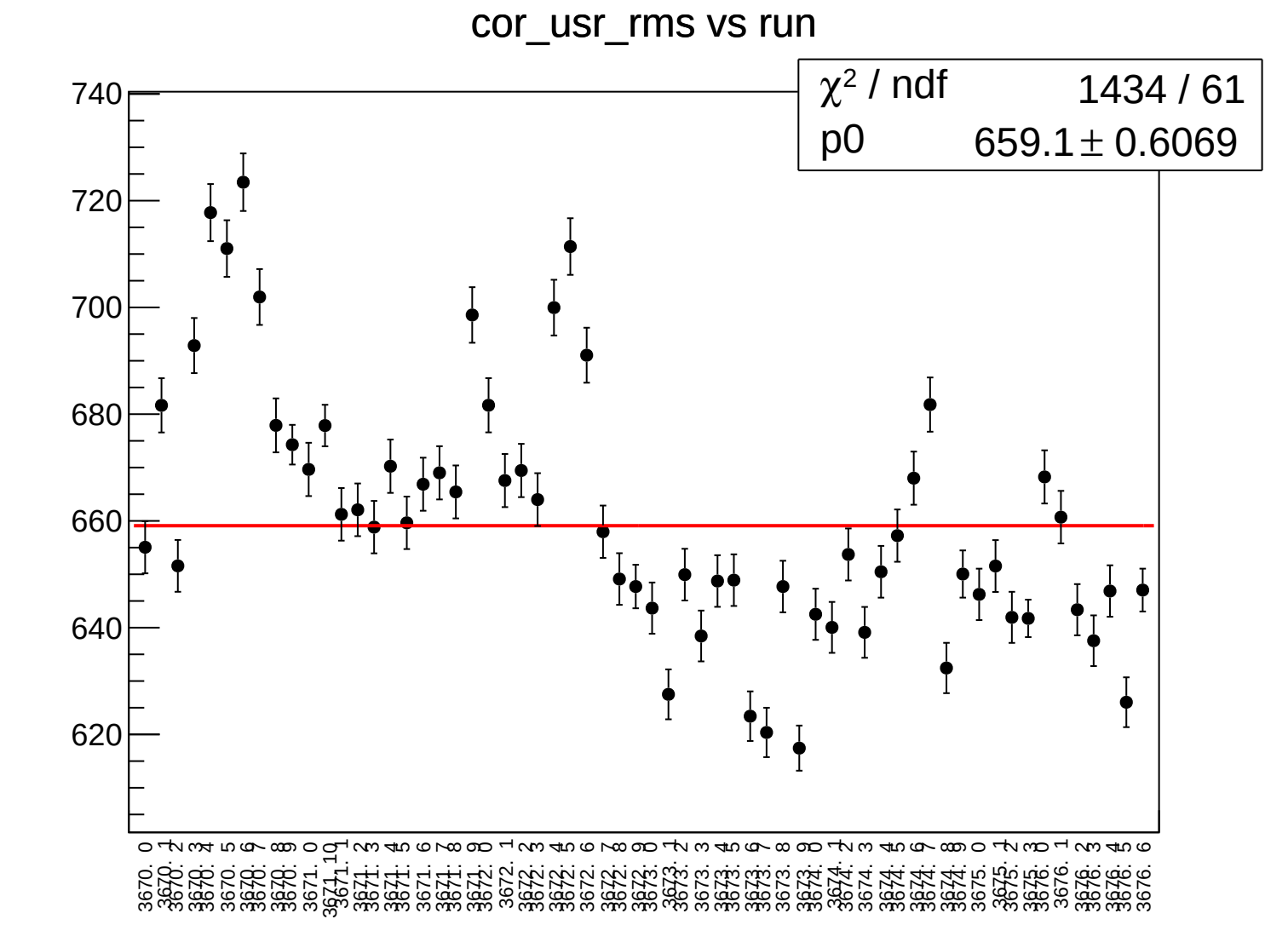

cor_usl_mean vs run
χ² / ndf 53.08 / 61
p0 88.32 ± 759.8
pull
Entries 62
Mean −122.9
Std Dev 144.7

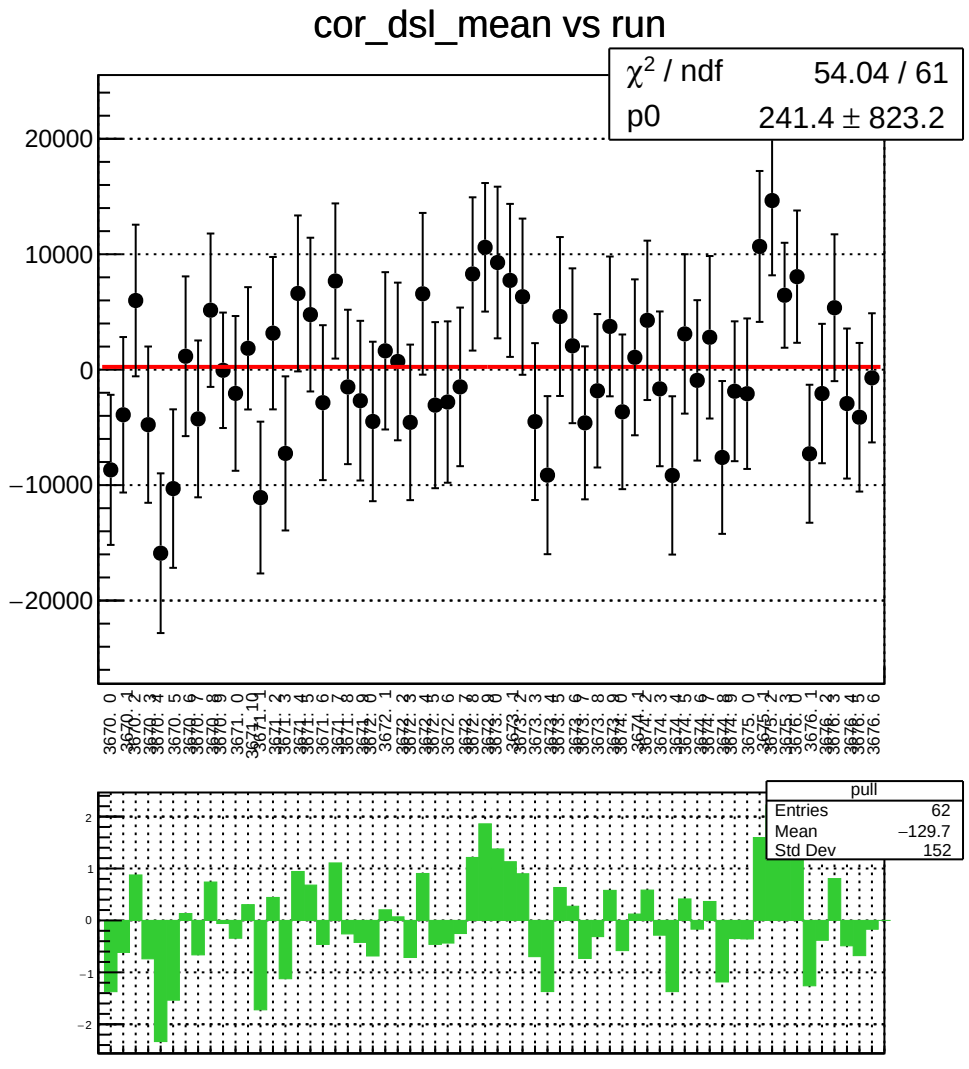

pull1D
Entries 62
Mean −0.02152
Std Dev 0.9251

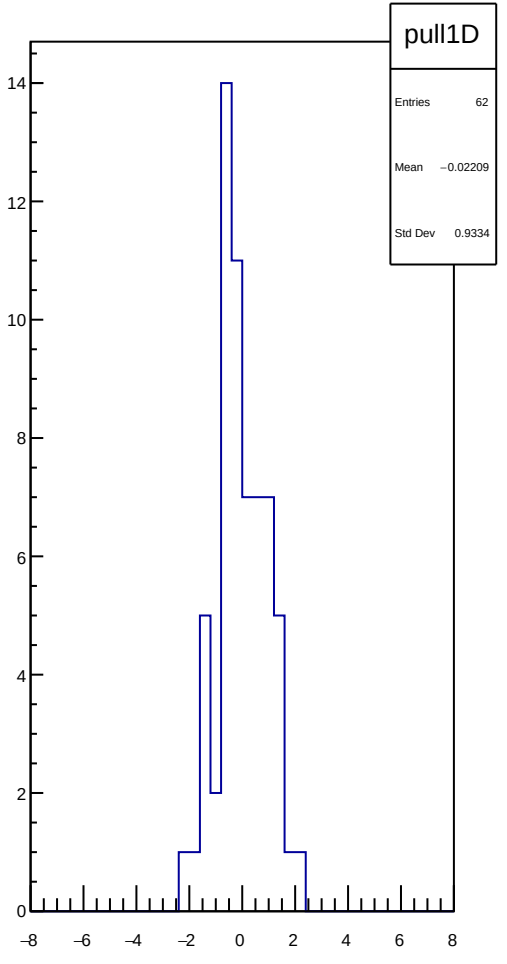

cor_usl_rms vs run
χ² / ndf 1875 / 61
p0 583.4 ± 0.5373
640
620
600
580
560
540
520
500
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

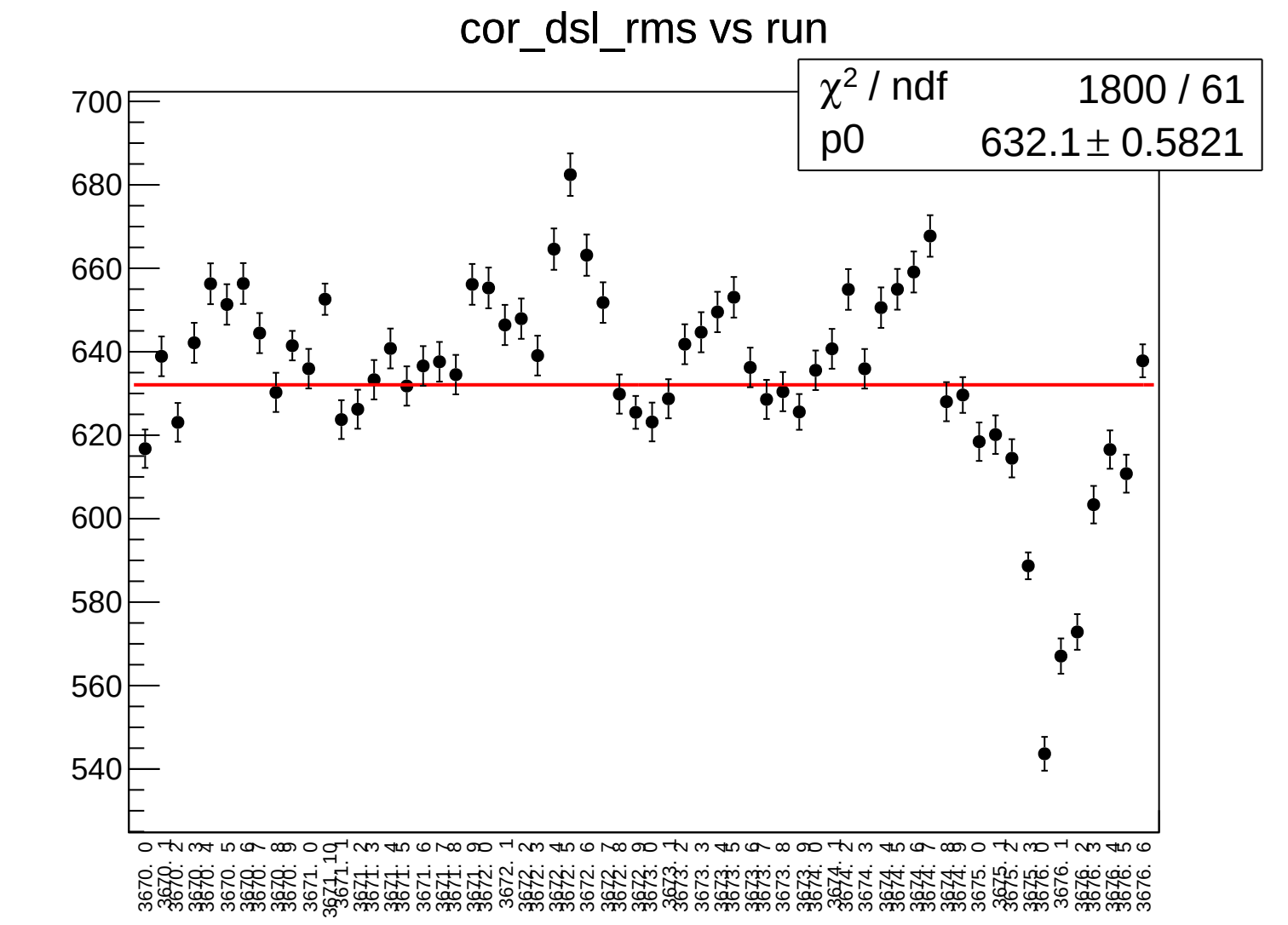

cor_usr_mean vs run
χ² / ndf 46.35 / 61
p0 −535 ± 858.2
pull
Entries 62
Mean −95.46
Std Dev 127.7

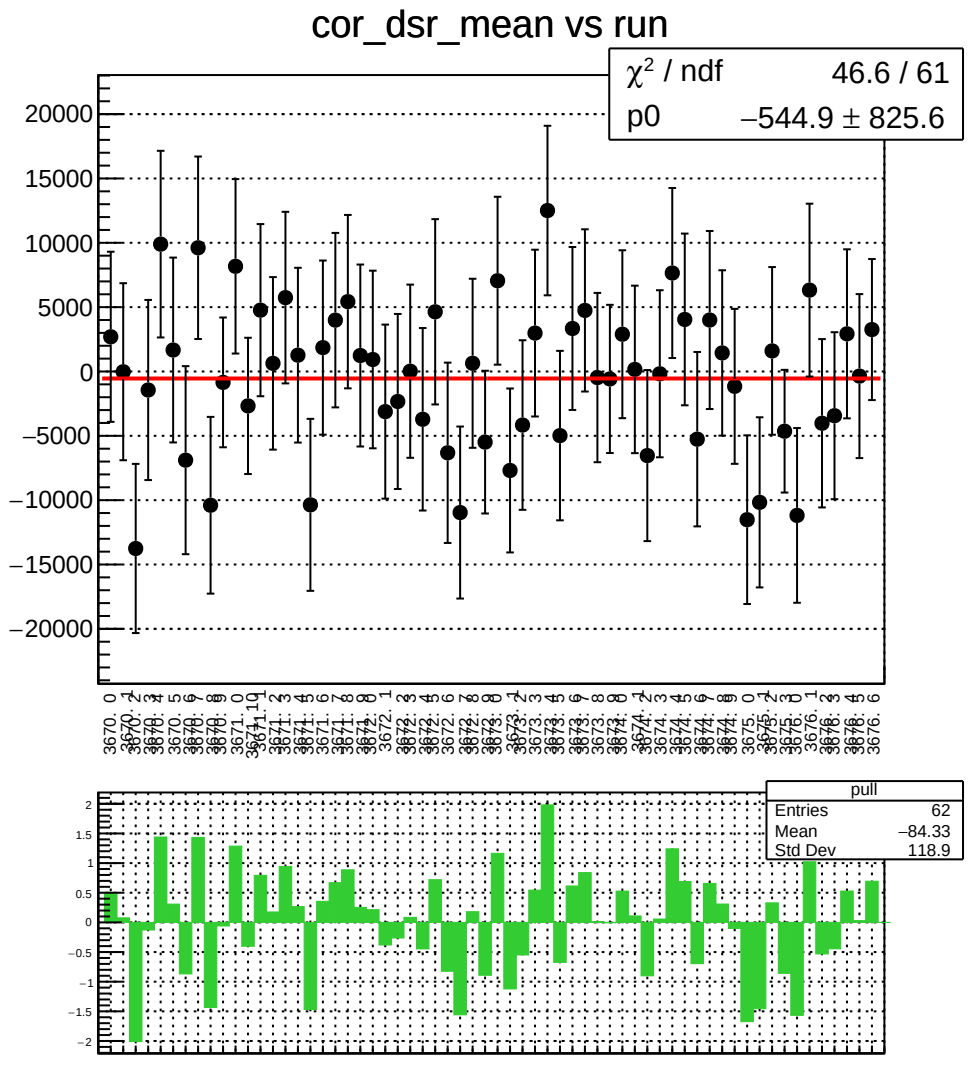

pull1D
Entries 62
Mean 0.01018
Std Dev 0.8645

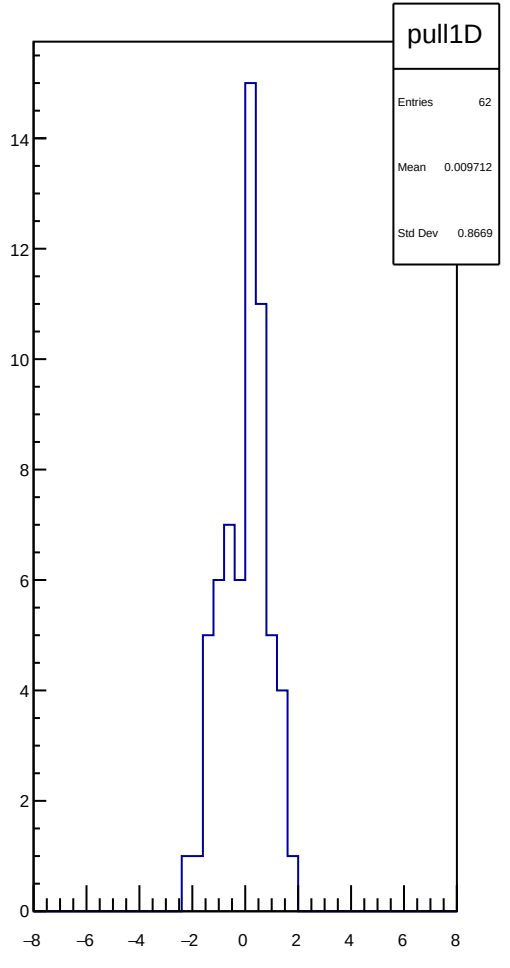

cor_usr_rms vs run
χ² / ndf 1434 / 61
p0 659.1 ± 0.6069
740
720
700
680
660
640
620
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

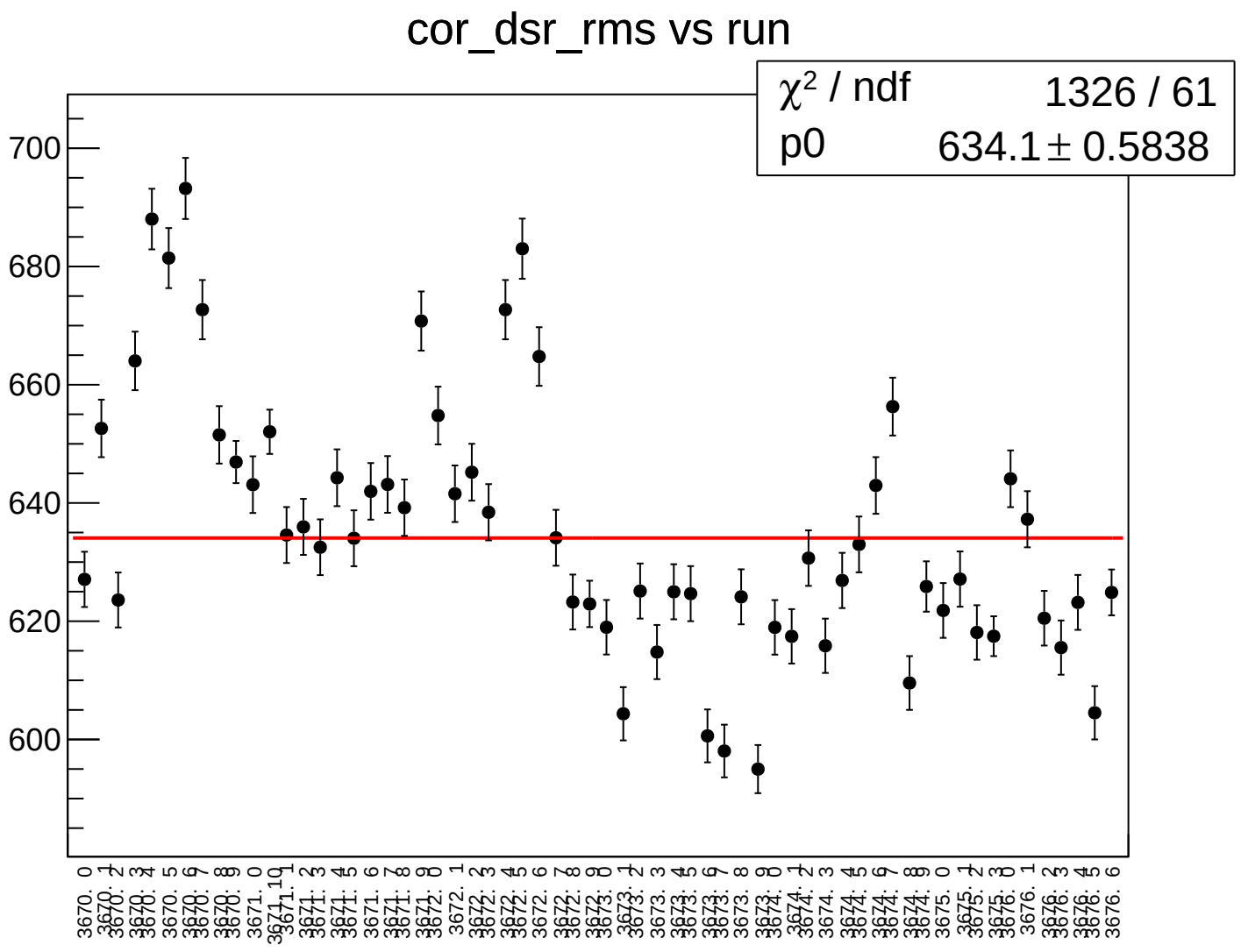

cor_dsl_mean vs run
χ² / ndf 54.04 / 61
p0 241.4 ± 823.2
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −129.7
Std Dev 152
2
1
0
−1
−2

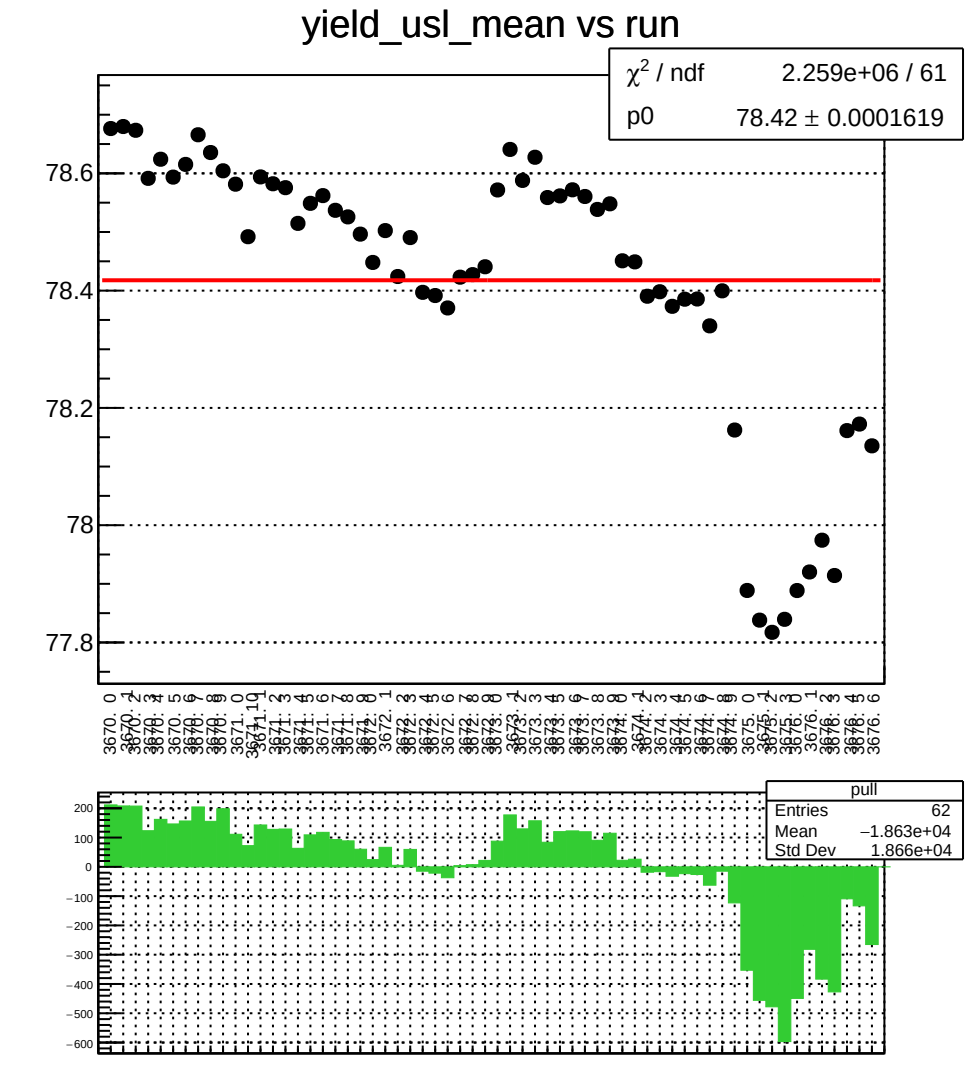

pull1D
Entries 62
Mean −0.02209
Std Dev 0.9334
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

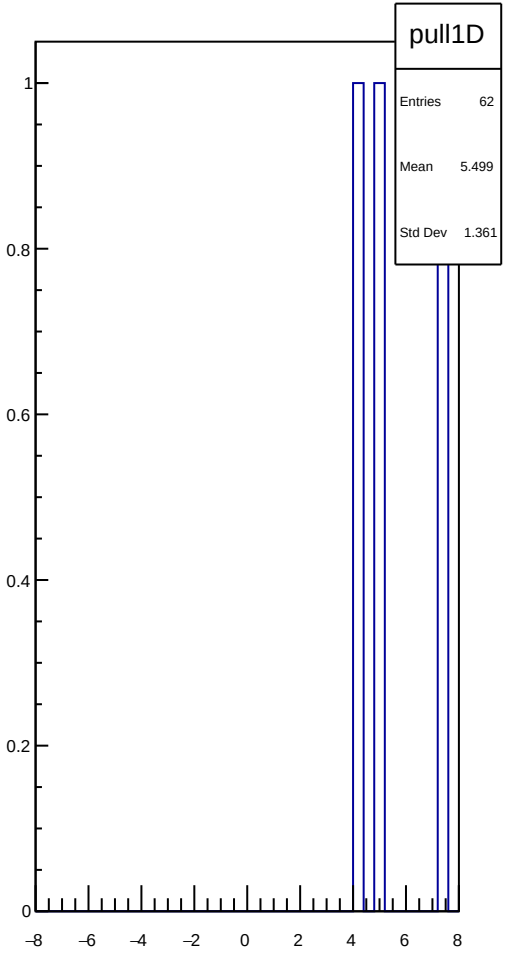

cor_dsl_rms vs run
χ² / ndf 1800 / 61
p0 632.1 ± 0.5821
700
680
660
640
620
600
580
560
540
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

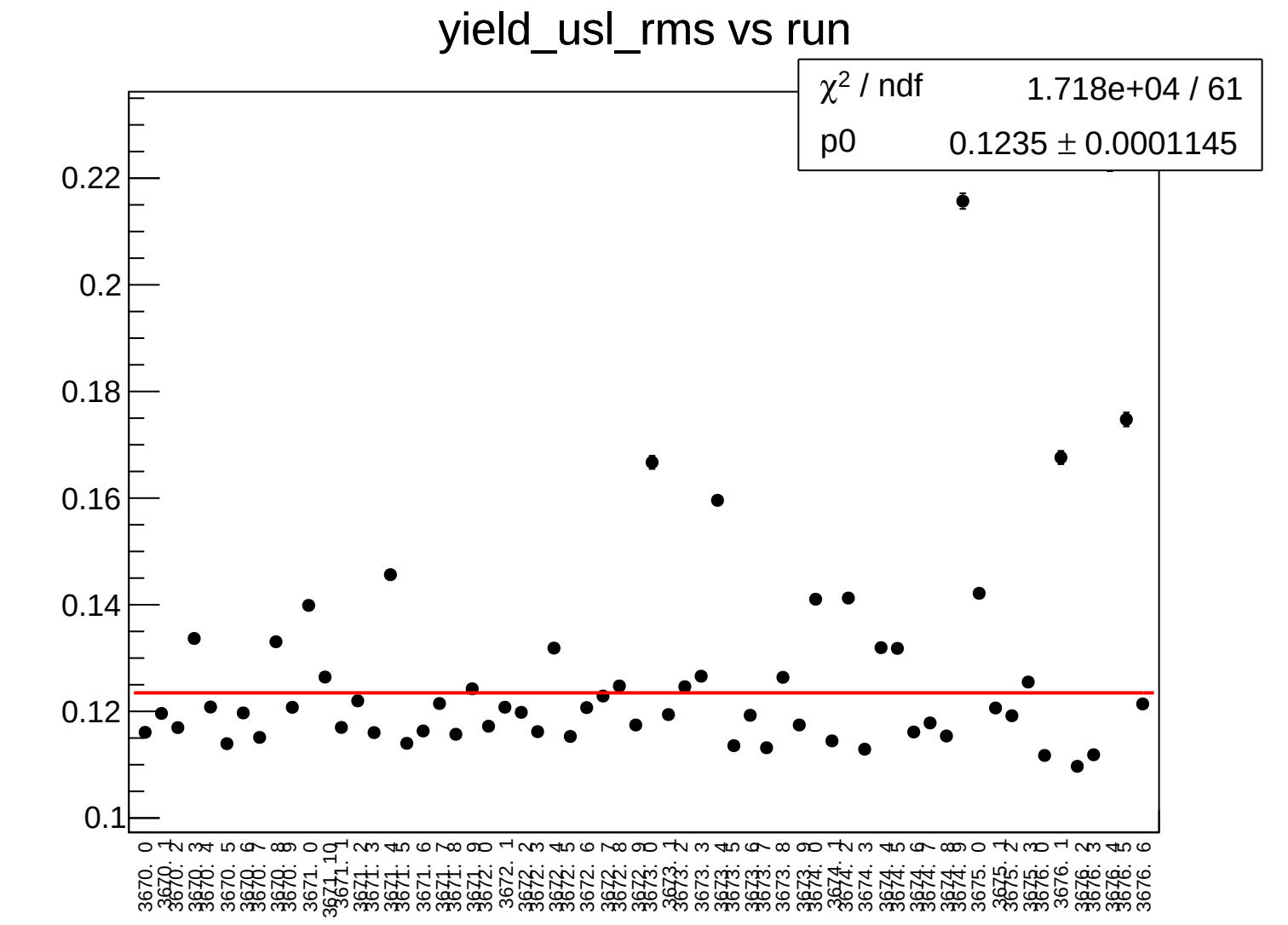

cor_dsr_mean vs run
χ² / ndf 46.6 / 61
p0 −544.9 ± 825.6
pull
Entries 62
Mean −84.33
Std Dev 118.9

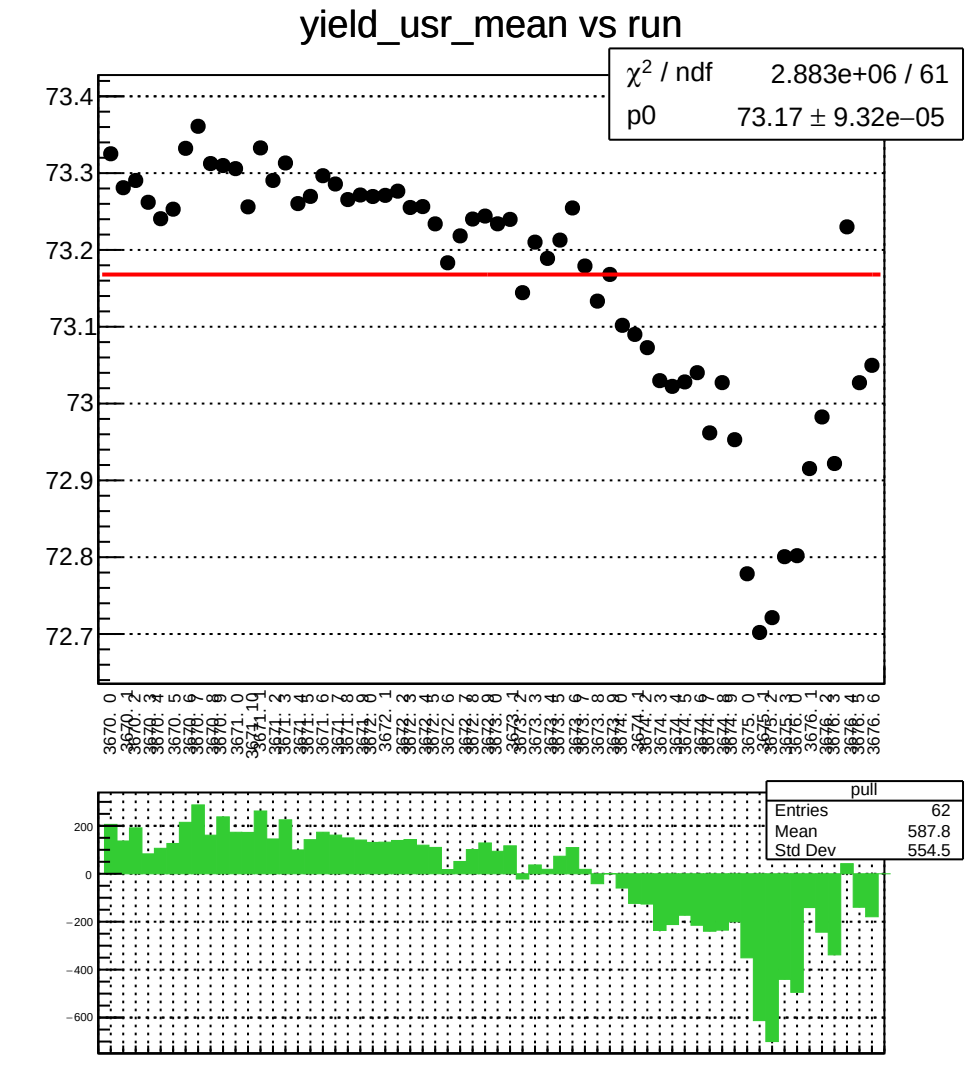

pull1D
Entries 62
Mean 0.009712
Std Dev 0.8669

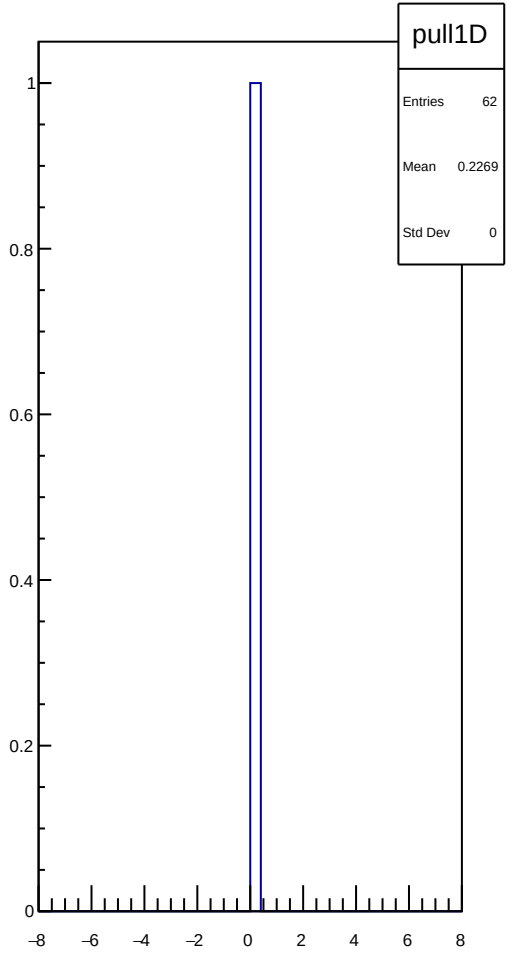

cor_dsr_rms vs run
χ² / ndf 1326 / 61
p0 634.1 ± 0.5838
700
680
660
640
620
600
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

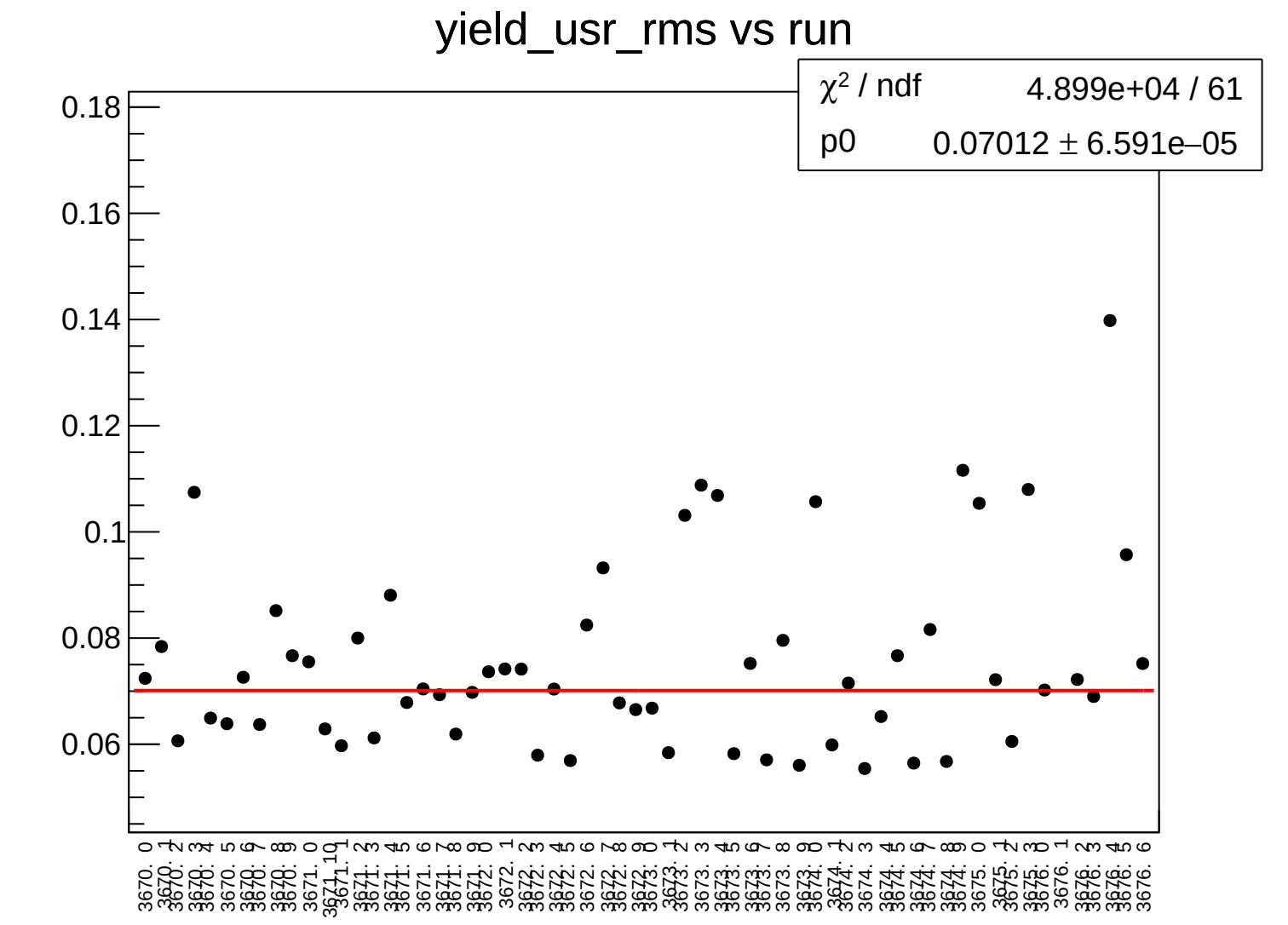

yield_usl_mean vs run
χ² / ndf 2.259e+06 / 61
p0 78.42 ± 0.0001619
78.6
78.4
78.2
78
77.8
pull
Entries 62
Mean −1.863e+04
Std Dev 1.866e+04
200
100
0
−100
−200
−300
−400
−500
−600

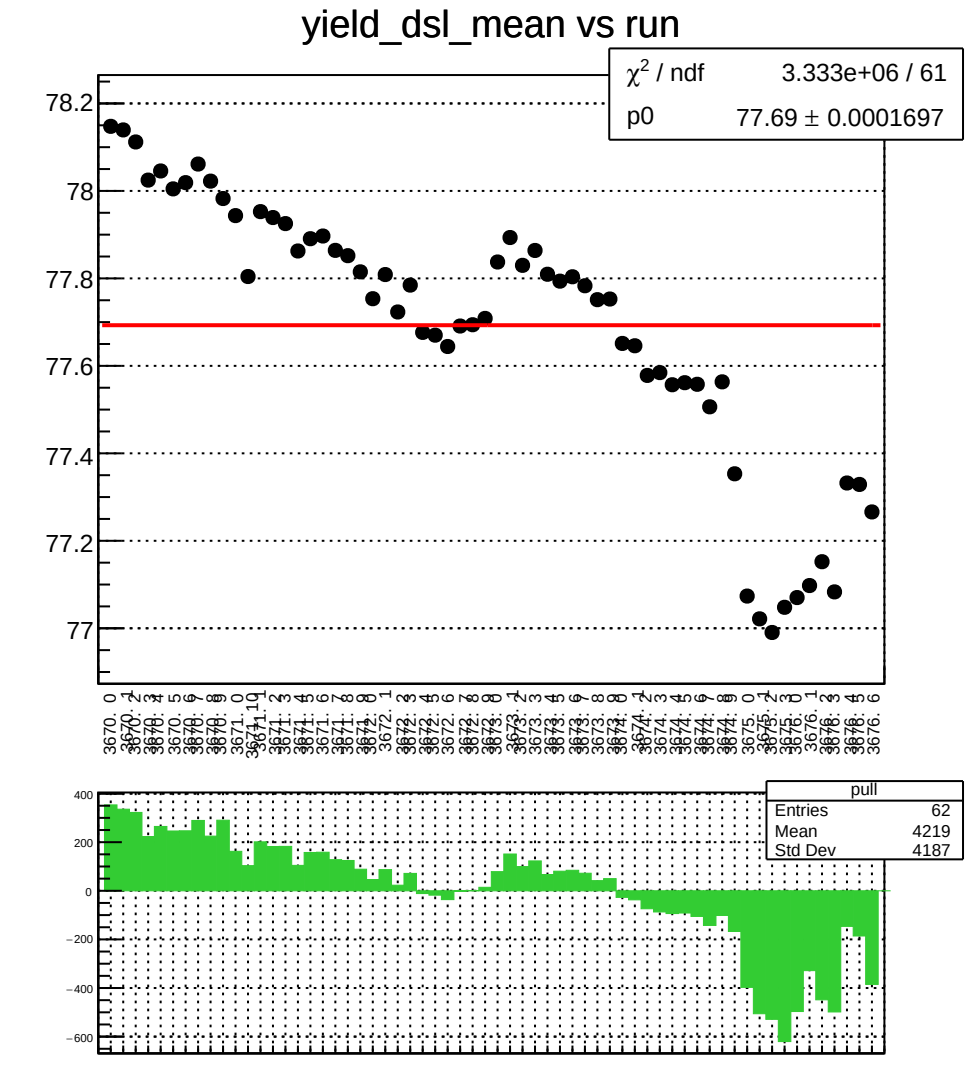

pull1D
Entries 62
Mean 5.499
Std Dev 1.361
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

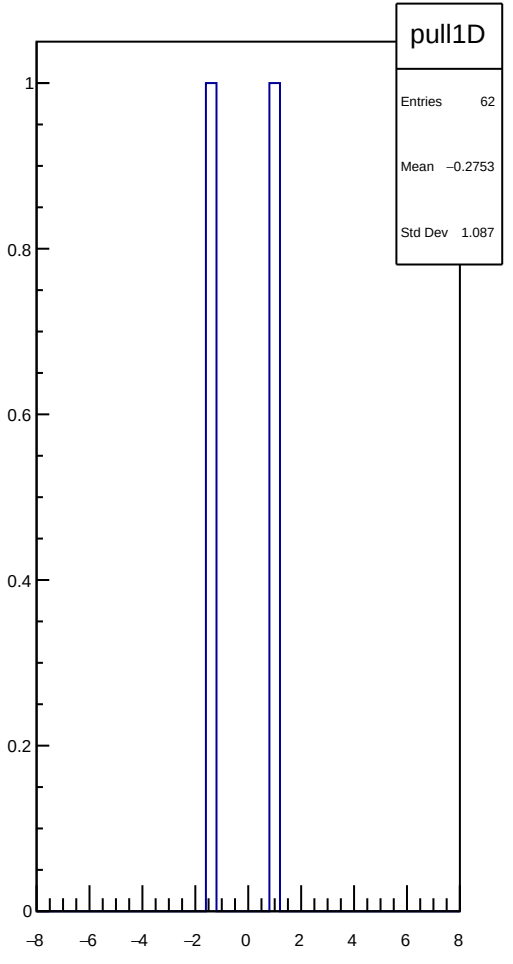

yield_usl_rms vs run
χ² / ndf 1.718e+04 / 61
p0 0.1235 ± 0.0001145
0.22
0.2
0.18
0.16
0.14
0.12
0.1

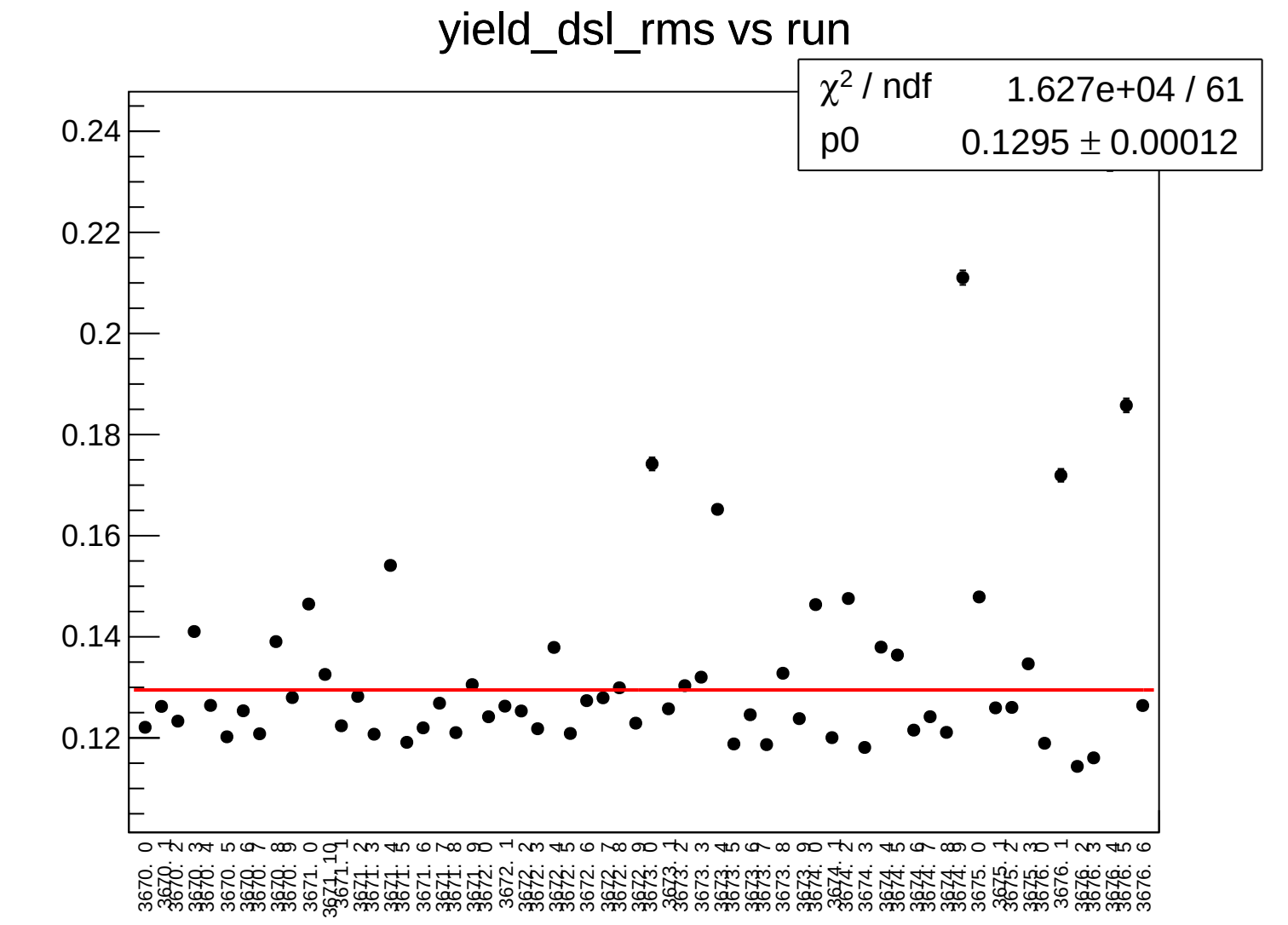

yield_usr_mean vs run
χ² / ndf 2.883e+06 / 61
p0 73.17 ± 9.32e−05
73.4
73.3
73.2
73.1
73
72.9
72.8
72.7
pull
Entries 62
Mean 587.8
Std Dev 554.5
200
0
−200
−400
−600

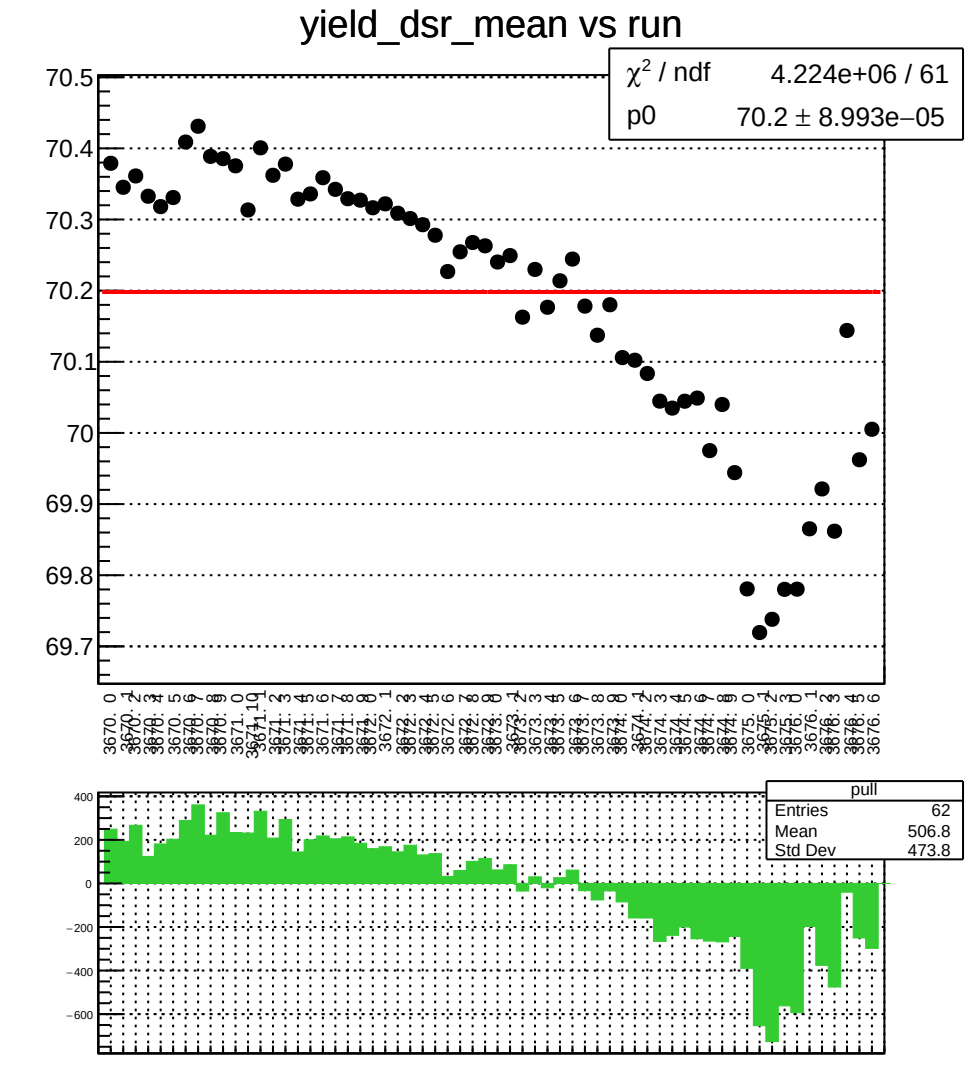

pull1D
Entries 62
Mean 0.2269
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

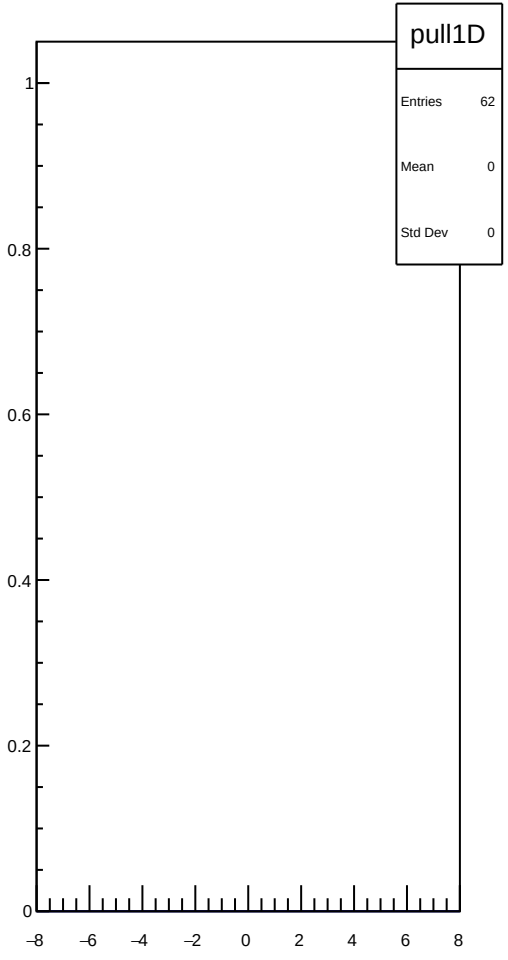

yield_usr_rms vs run
χ² / ndf 4.899e+04 / 61
p0 0.07012 ± 6.591e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

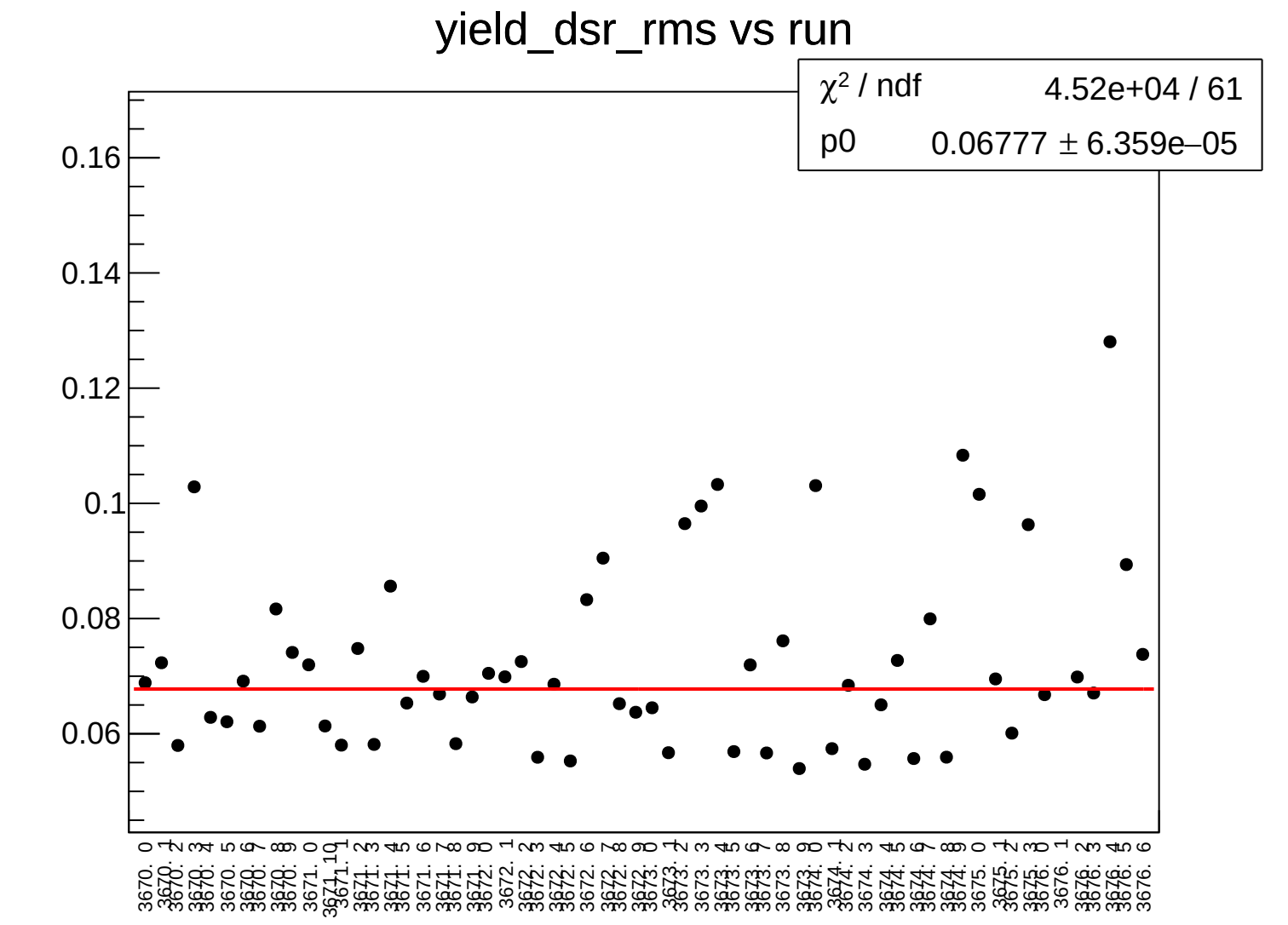

yield_dsl_mean vs run
χ² / ndf 3.333e+06 / 61
p0 77.69 ± 0.0001697
78.2
78
77.8
77.6
77.4
77.2
77
pull
Entries 62
Mean 4219
Std Dev 4187
400
200
0
−200
−400
−600

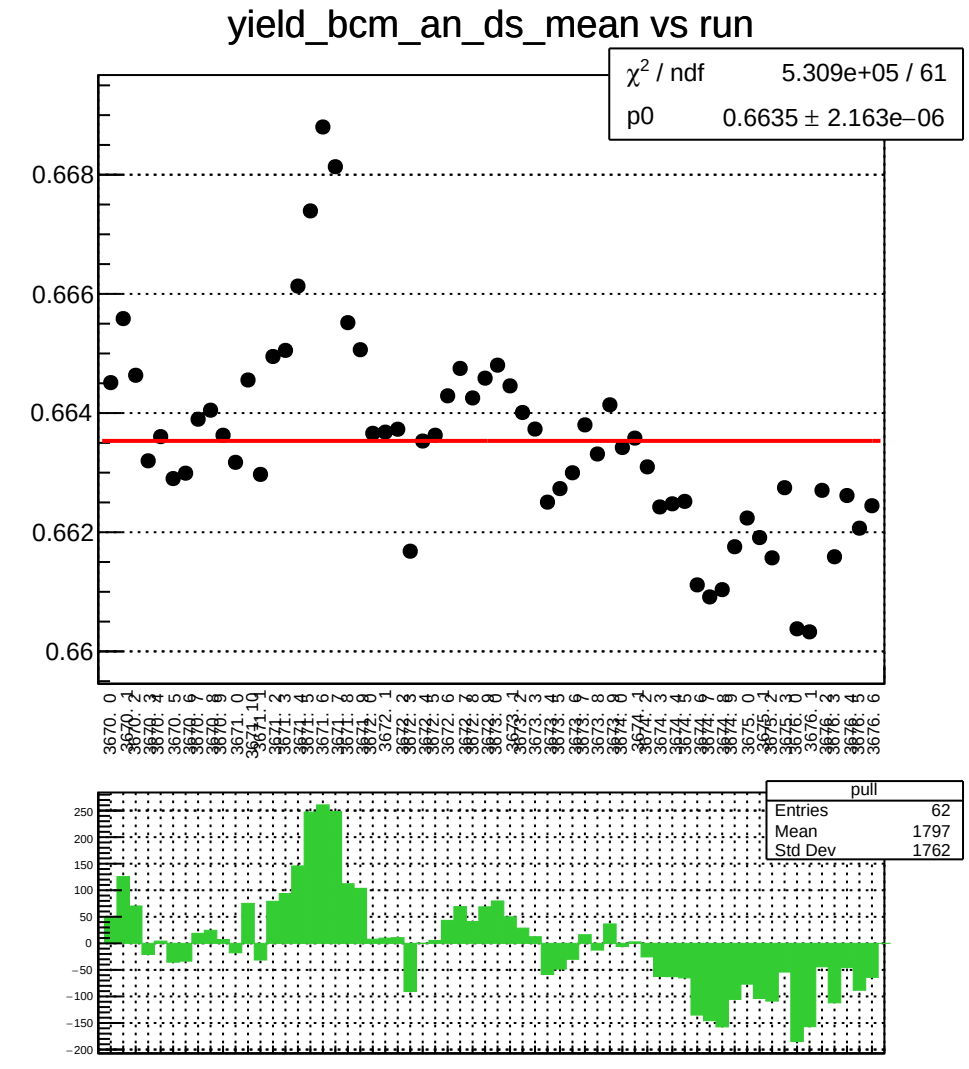

pull1D
Entries 62
Mean −0.2753
Std Dev 1.087
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

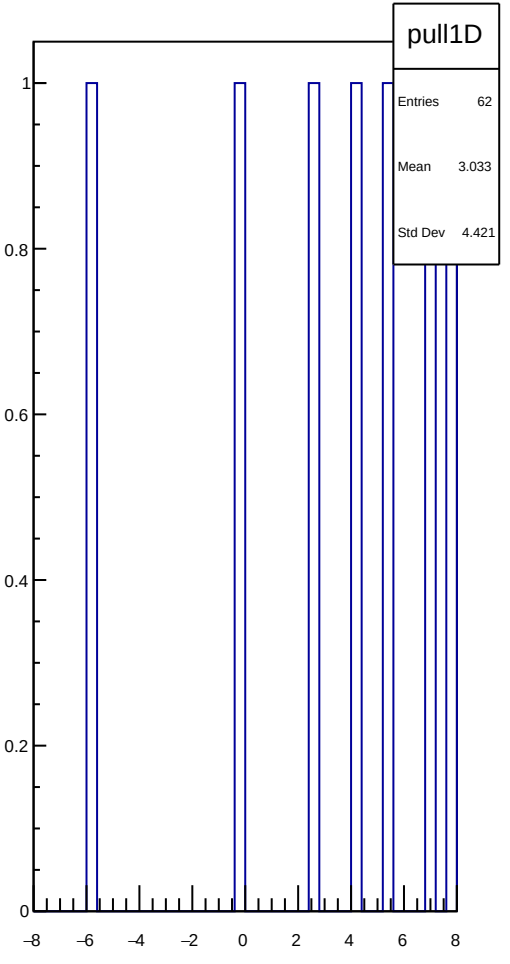

yield_dsl_rms vs run
χ^2 / ndf 1.627e+04 / 61
p0 0.1295 ± 0.00012
0.24
0.22
0.2
0.18
0.16
0.14
0.12

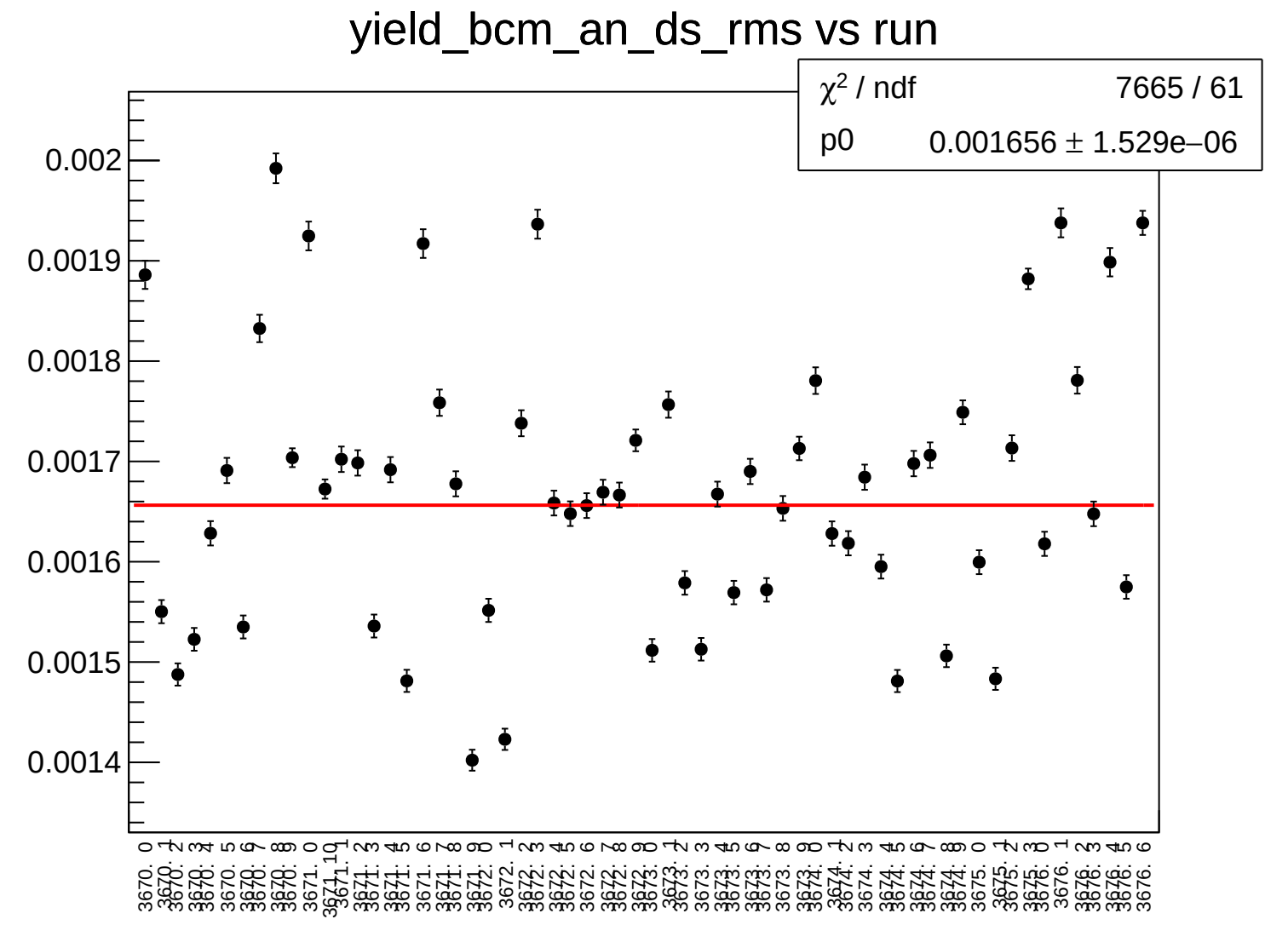

yield_dsr_mean vs run
χ² / ndf 4.224e+06 / 61
p0 70.2 ± 8.993e−05
pull
Entries 62
Mean 506.8
Std Dev 473.8

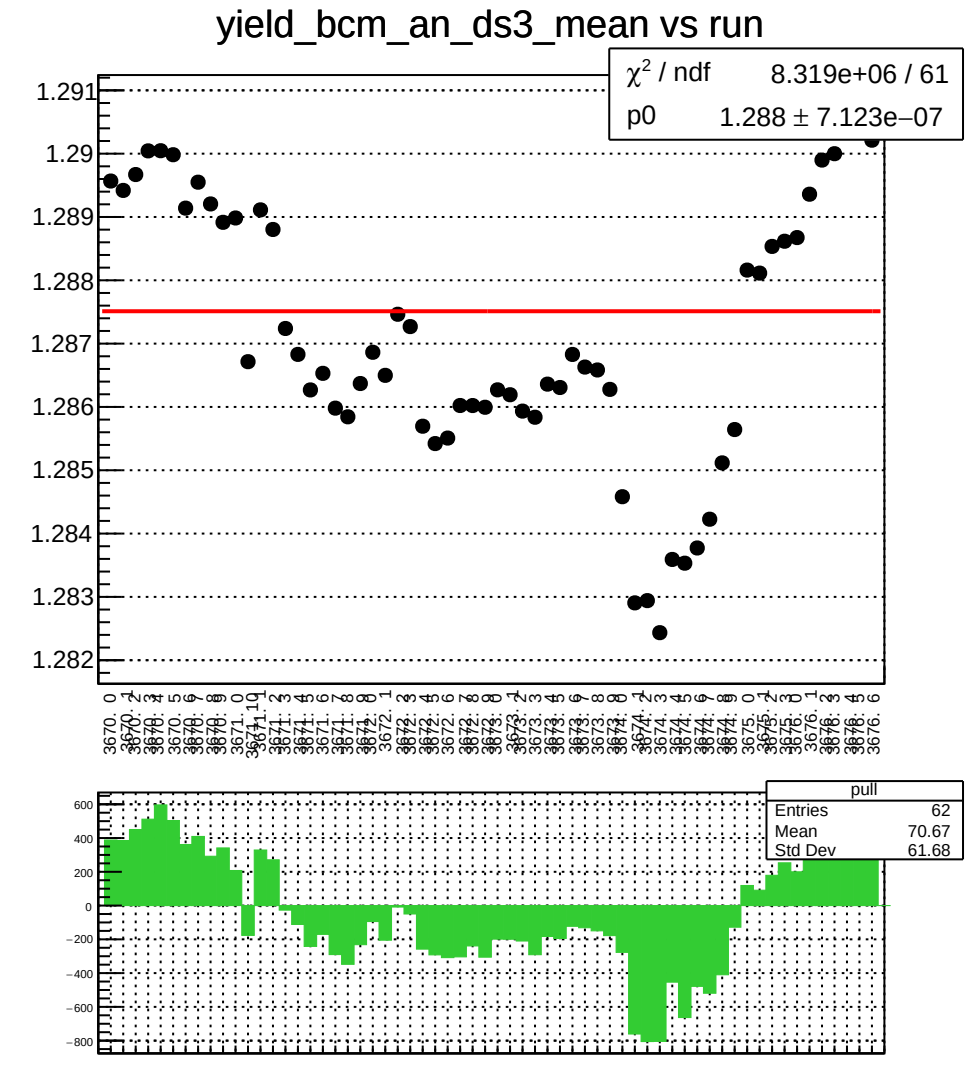

pull1D
Entries 62
Mean 0
Std Dev 0

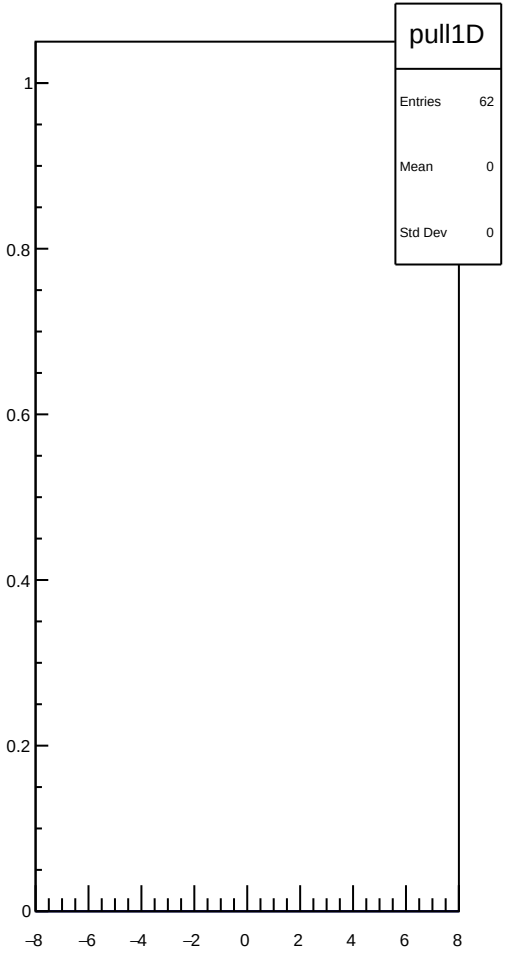

yield_dsr_rms vs run
χ² / ndf 4.52e+04 / 61
p0 0.06777 ± 6.359e−05
0.16
0.14
0.12
0.1
0.08
0.06

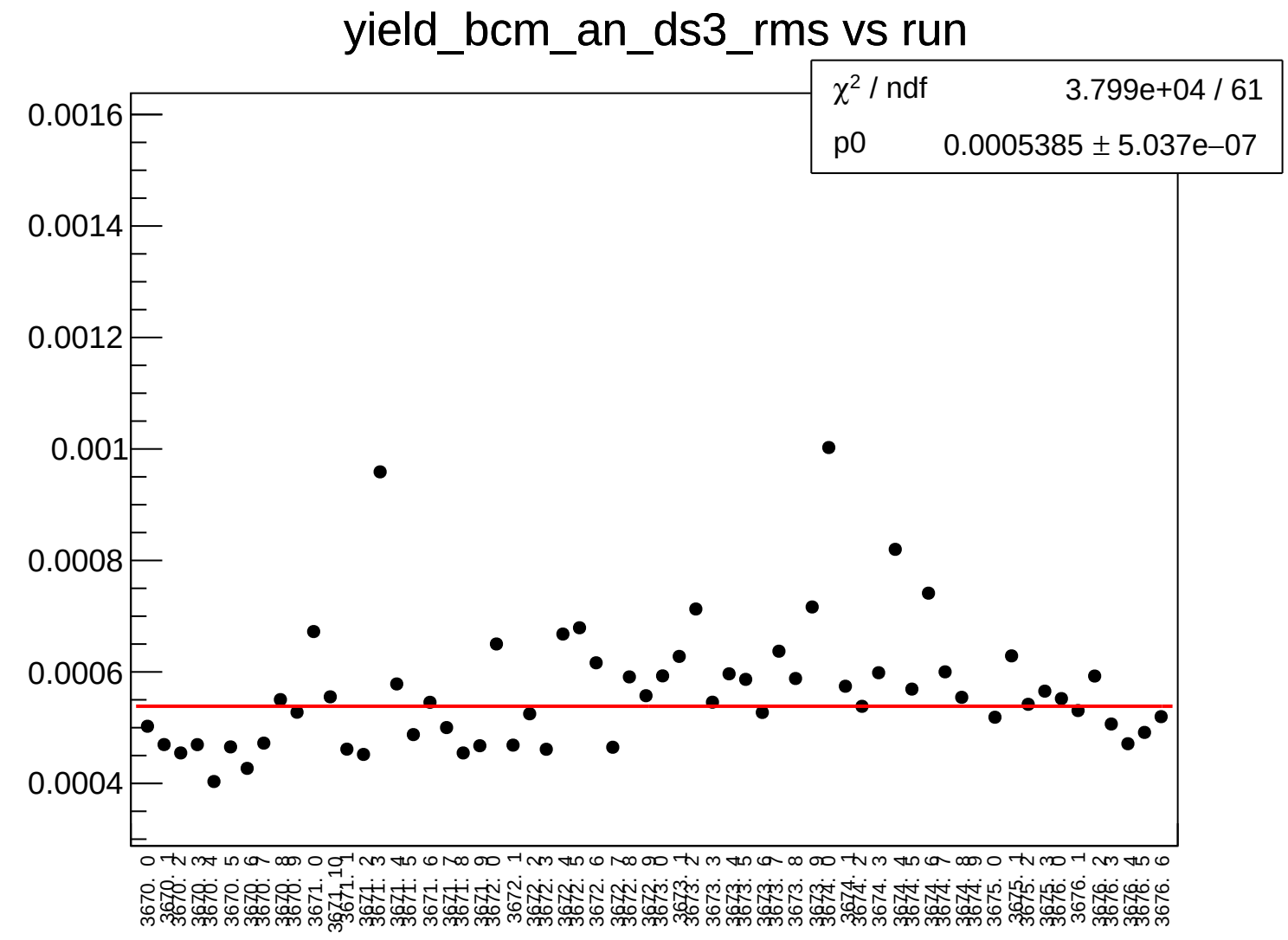

yield_bcm_an_ds_mean vs run
χ² / ndf 5.309e+05 / 61
p0 0.6635 ± 2.163e−06
0.668
0.666
0.664
0.662
0.66
pull
Entries 62
Mean 1797
Std Dev 1762
250
200
150
100
50
0
−50
−100
−150
−200

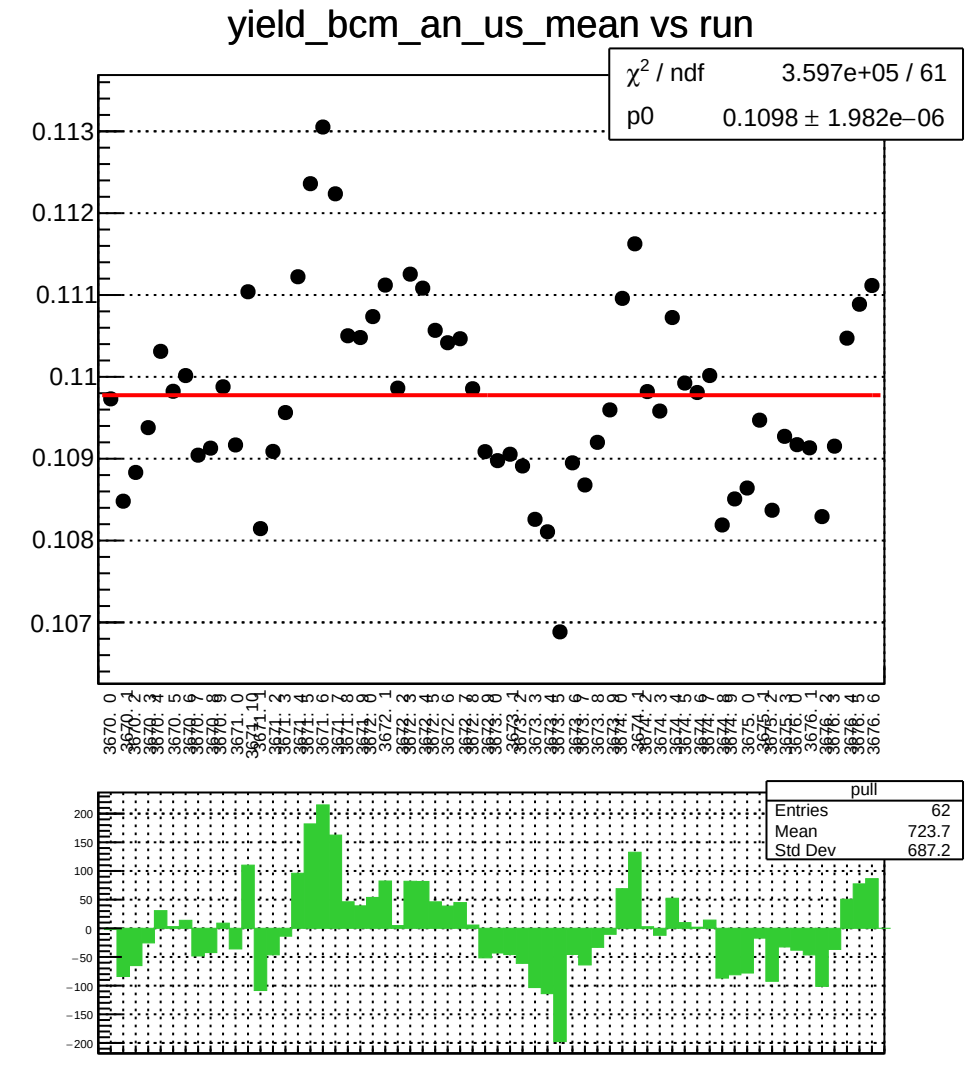

pull1D
Entries 62
Mean 3.033
Std Dev 4.421
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

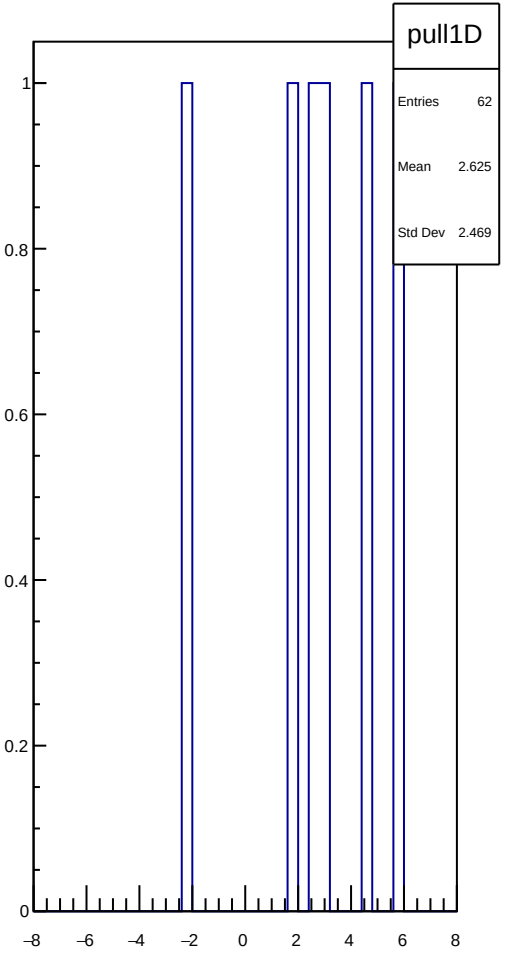

yield_bcm_an_ds_rms vs run
χ² / ndf 7665 / 61
p0 0.001656 ± 1.529e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

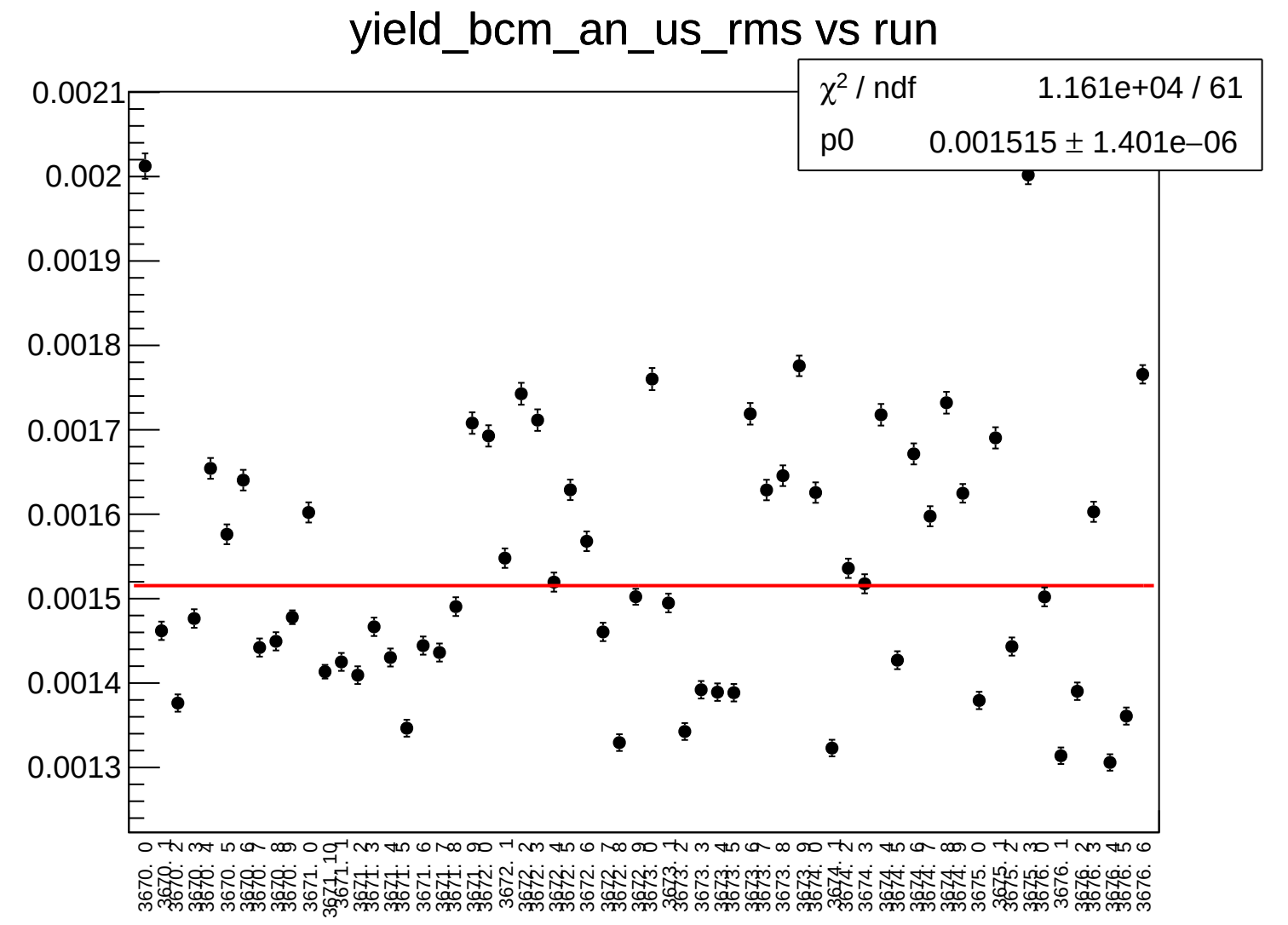

yield_bcm_an_ds3_mean vs run
χ² / ndf 8.319e+06 / 61
p0 1.288 ± 7.123e−07
1.291
1.29
1.289
1.288
1.287
1.286
1.285
1.284
1.283
1.282
pull
Entries 62
Mean 70.67
Std Dev 61.68
600
400
200
0
−200
−400
−600
−800

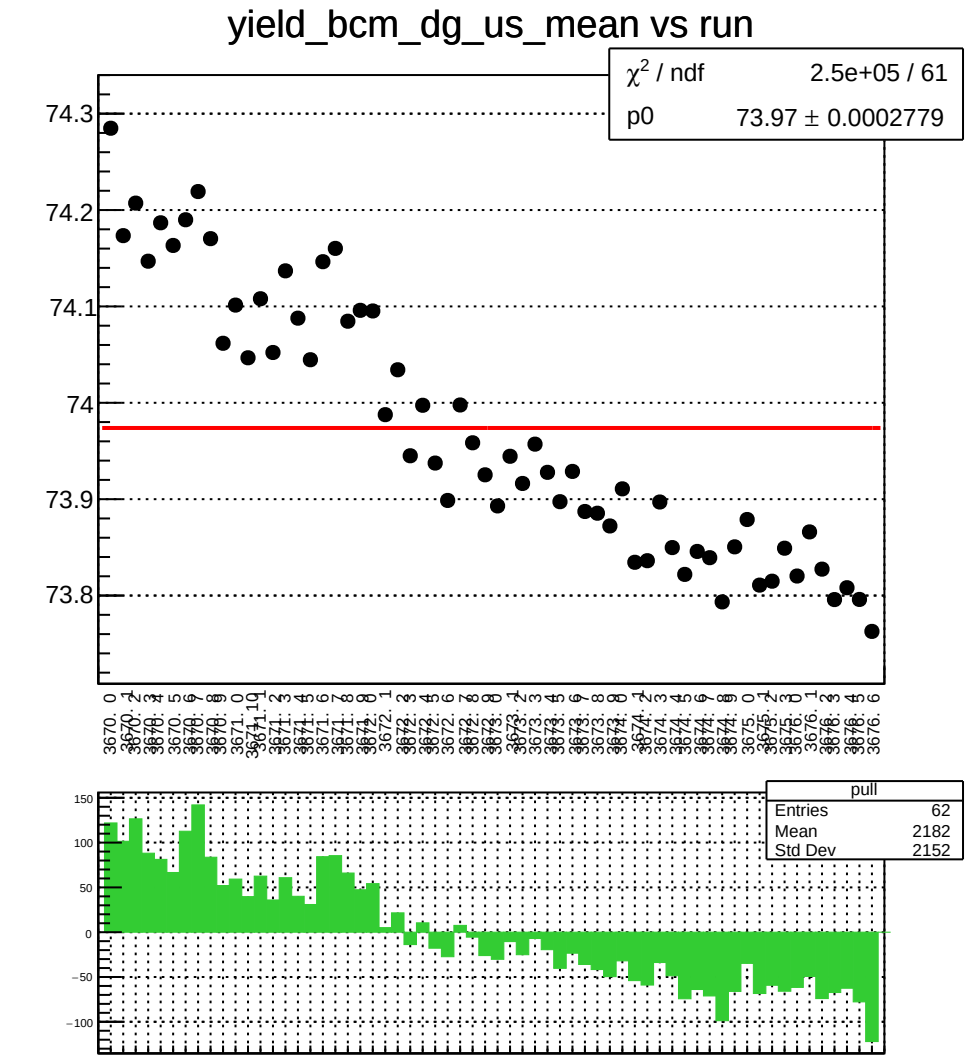

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

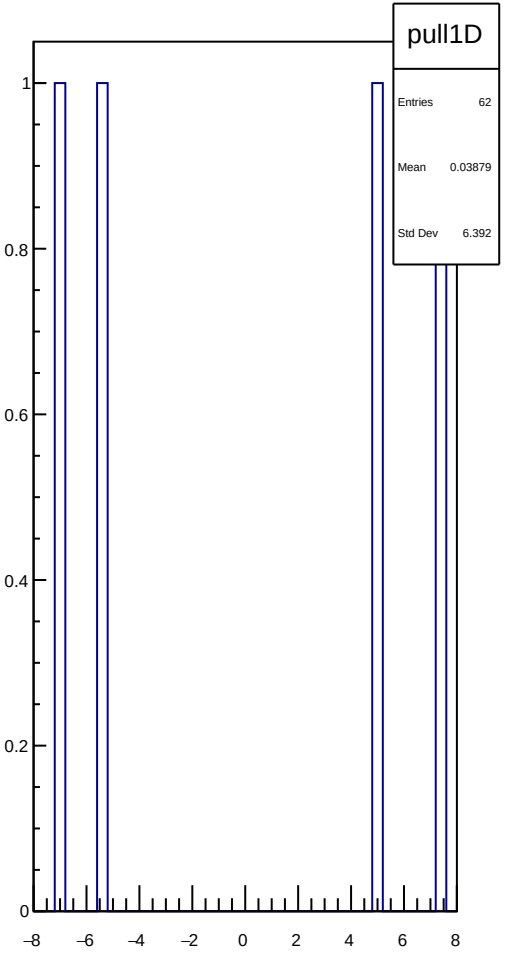

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.799e+04 / 61
p0 0.0005385 ± 5.037e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

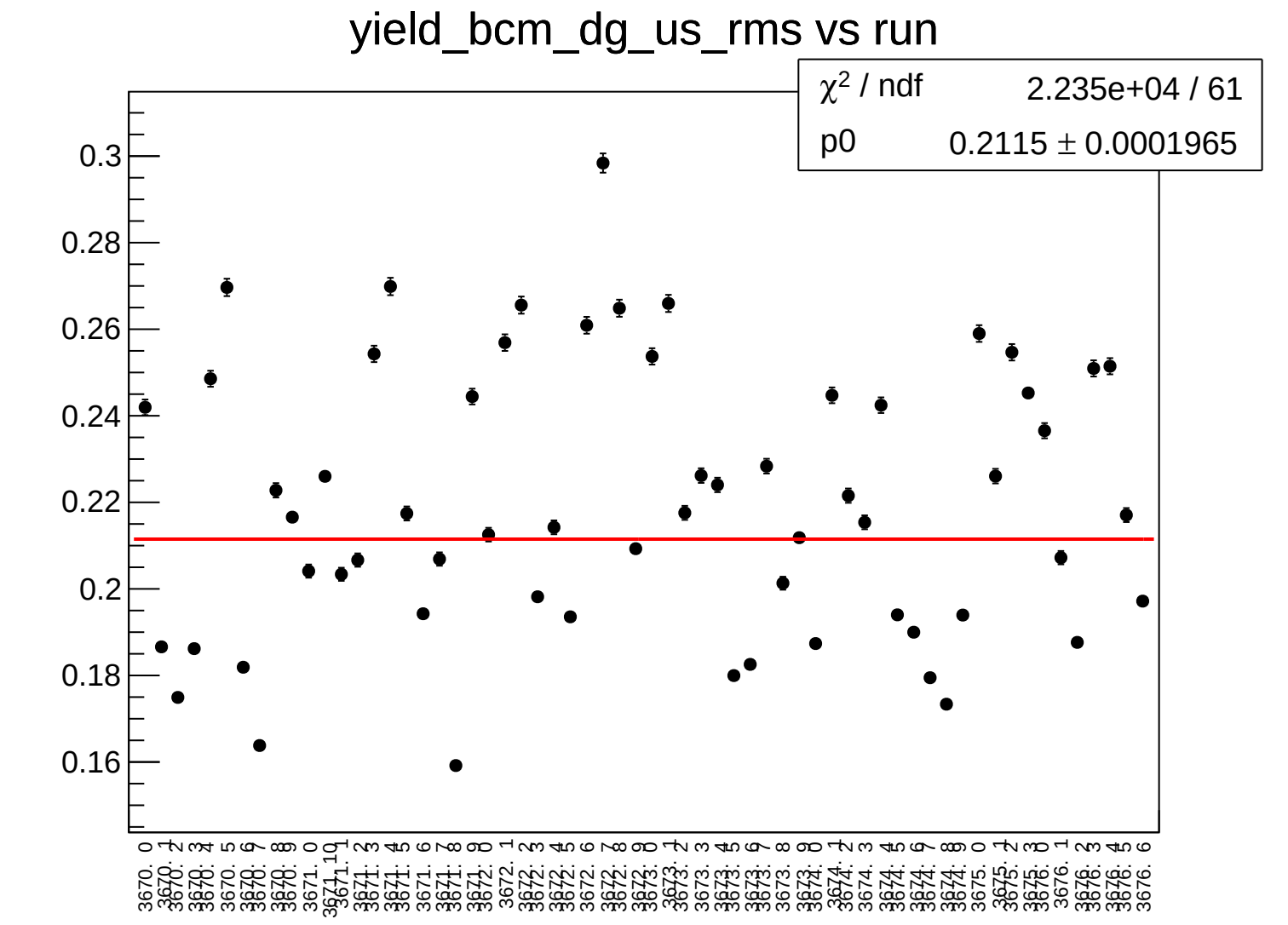

yield_bcm_an_us_mean vs run
χ² / ndf 3.597e+05 / 61
p0 0.1098 ± 1.982e−06
0.113
0.112
0.111
0.11
0.109
0.108
0.107
pull
Entries 62
Mean 723.7
Std Dev 687.2
200
150
100
50
0
−50
−100
−150
−200

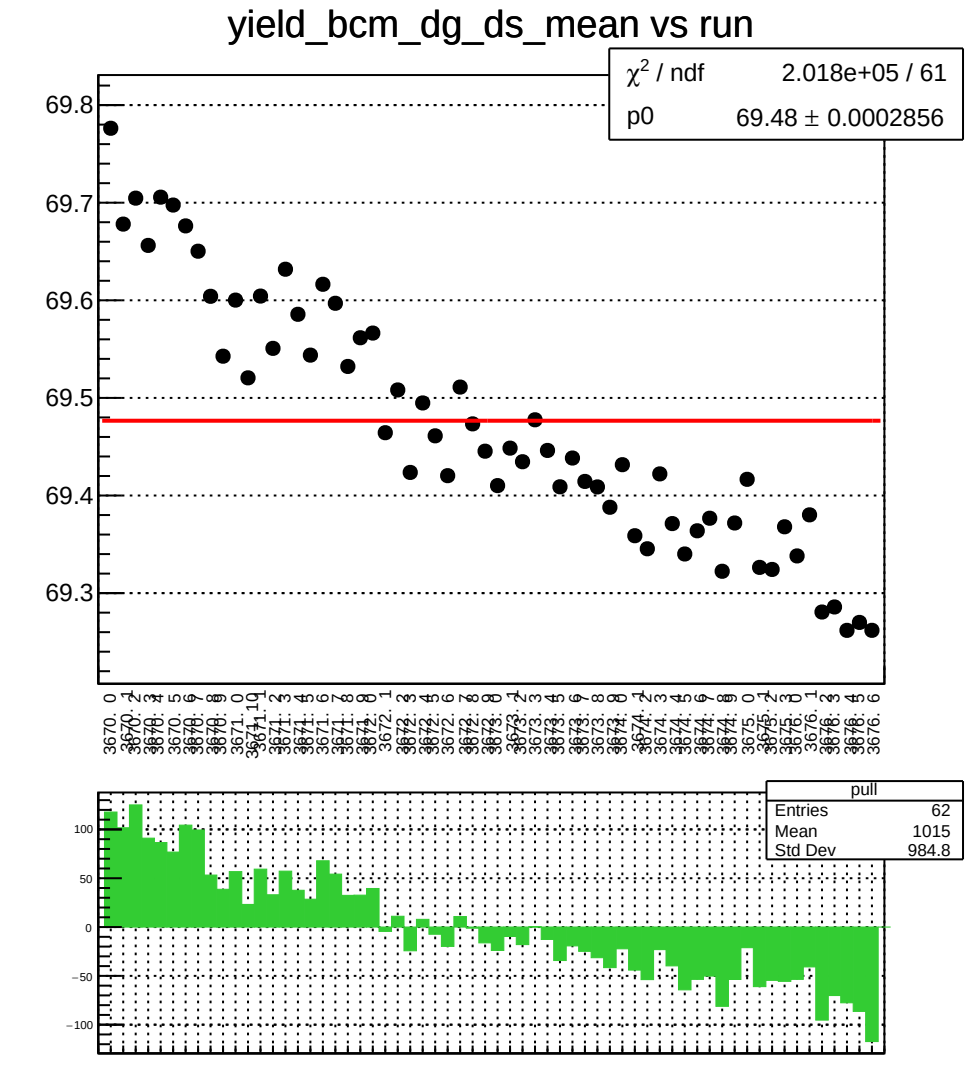

pull1D
Entries 62
Mean 2.625
Std Dev 2.469
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

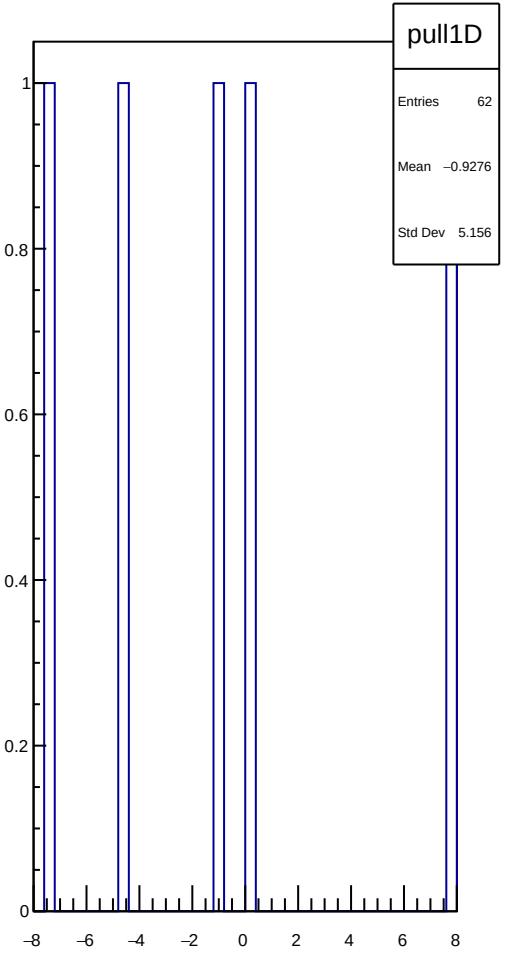

yield_bcm_an_us_rms vs run
χ² / ndf 1.161e+04 / 61
p0 0.001515 ± 1.401e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

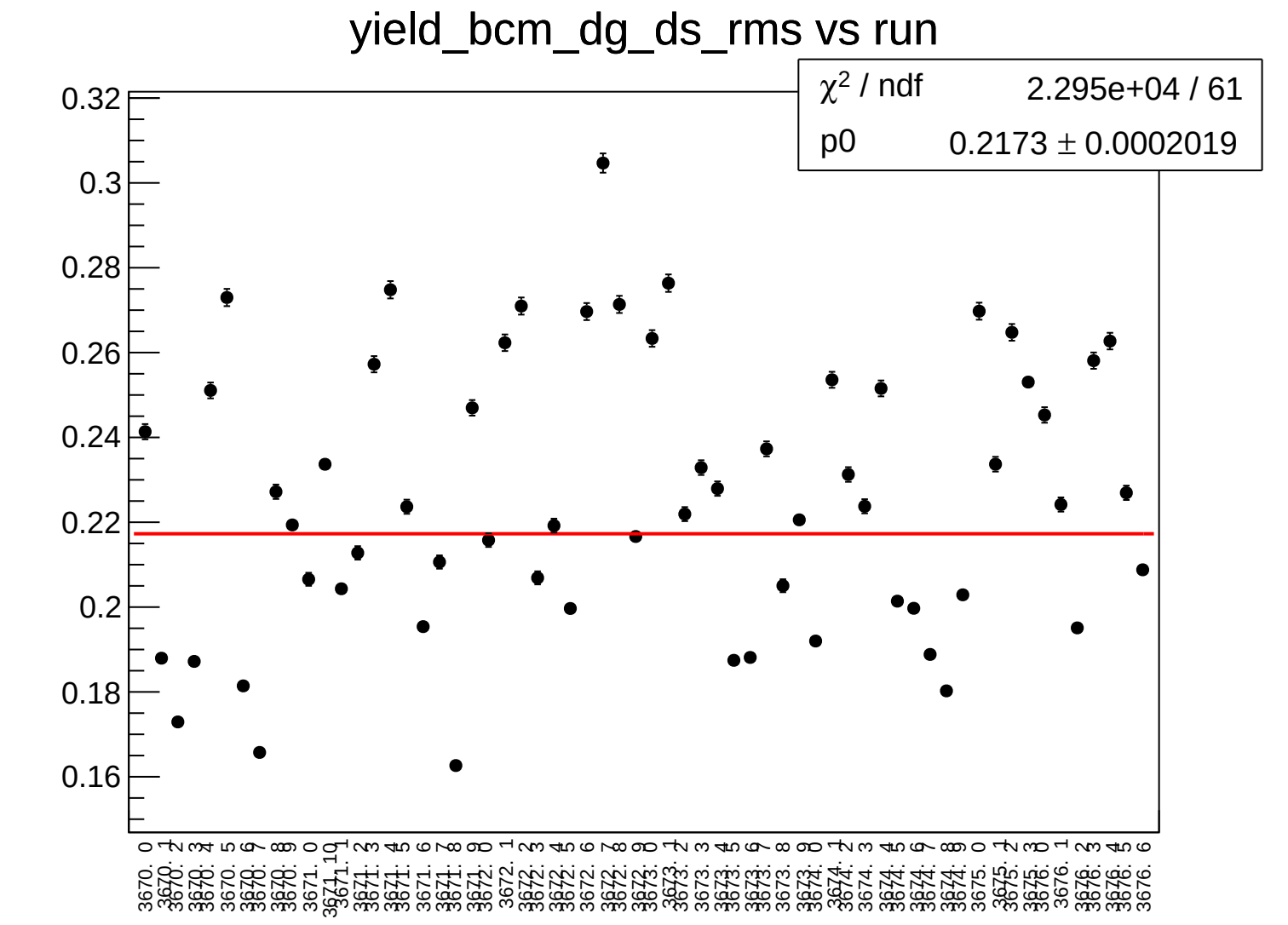

yield_bcm_dg_us_mean vs run
χ² / ndf 2.5e+05 / 61
p0 73.97 ± 0.0002779
74.3
74.2
74.1
74
73.9
73.8
pull
Entries 62
Mean 2182
Std Dev 2152
150
100
50
0
−50
−100

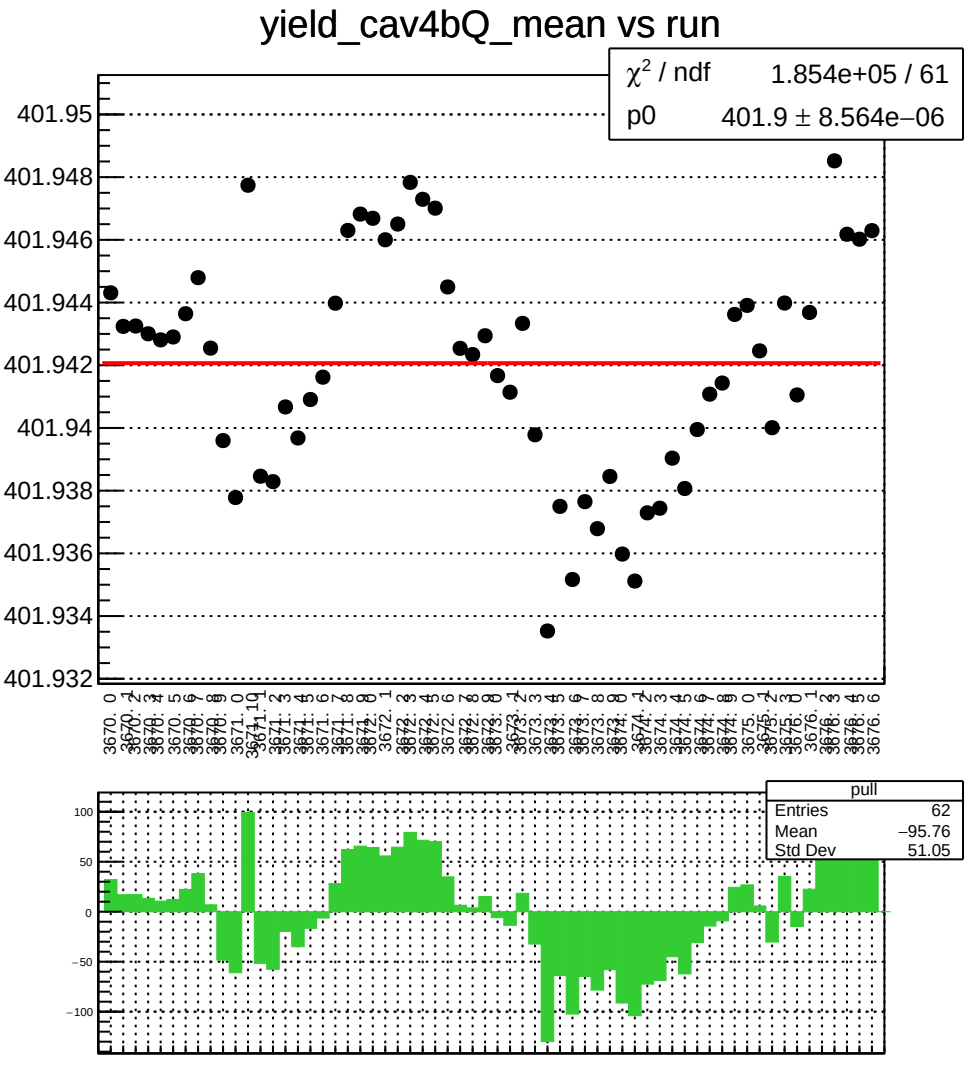

pull1D
Entries 62
Mean 0.03879
Std Dev 6.392
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

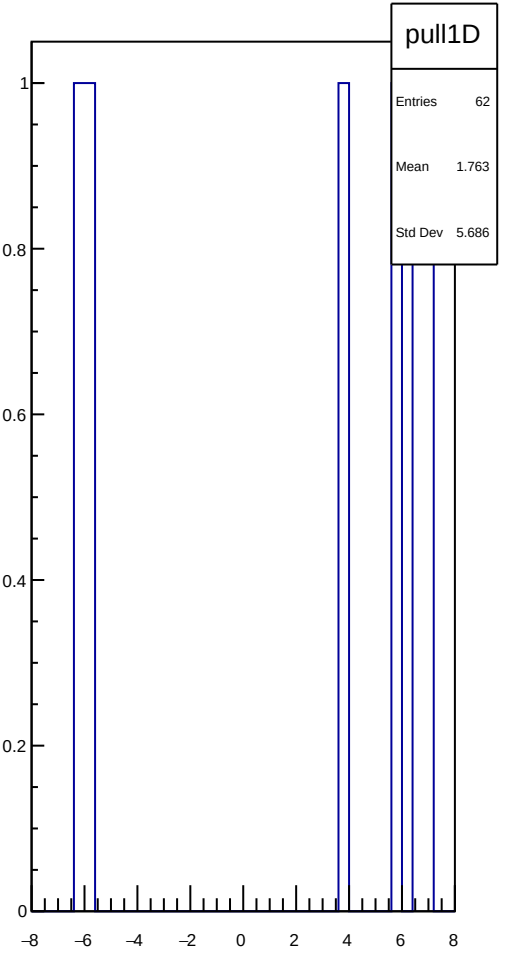

yield_bcm_dg_us_rms vs run
χ² / ndf 2.235e+04 / 61
p0 0.2115 ± 0.0001965
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16

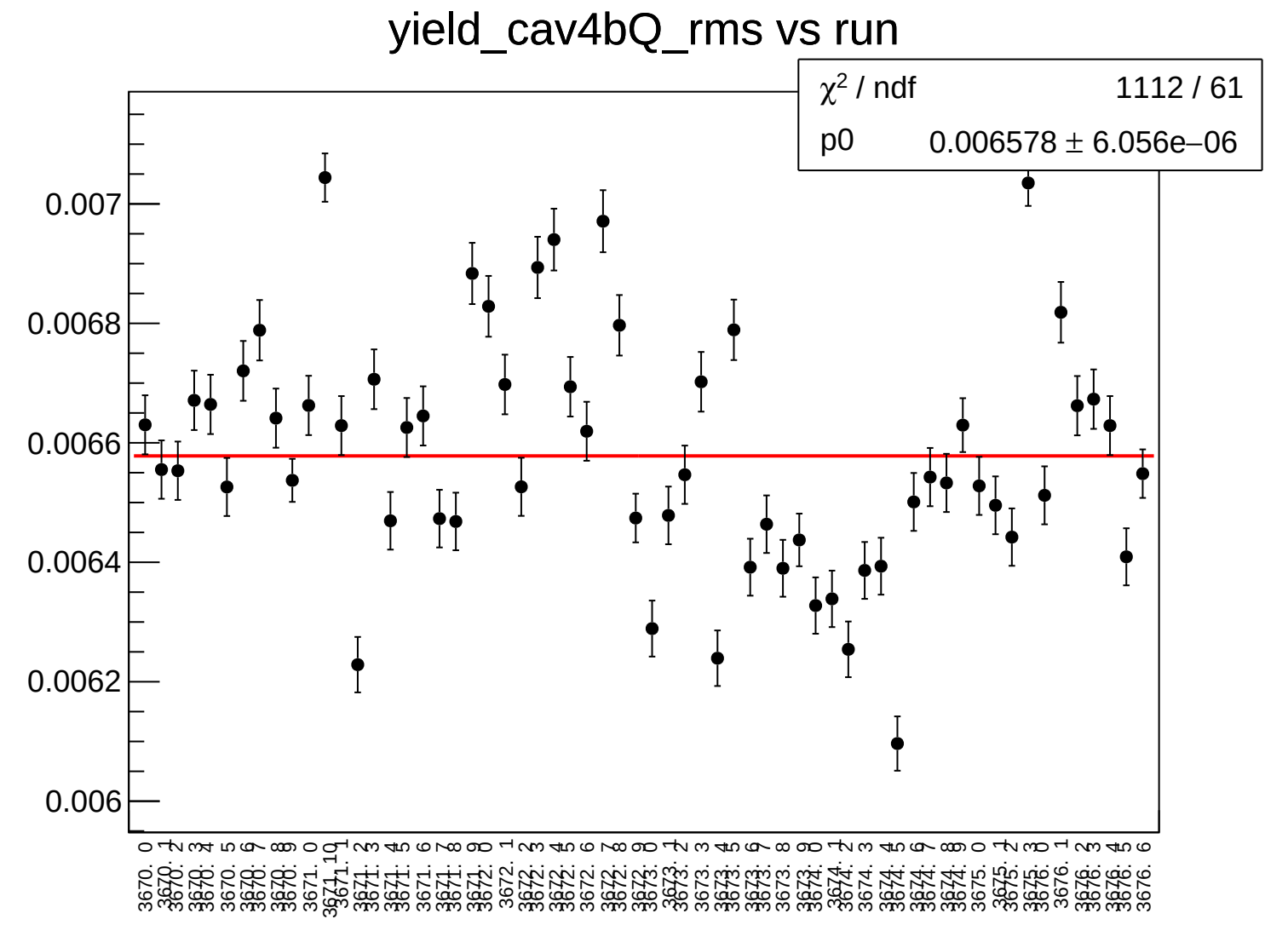

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.018e+05 / 61
p0 69.48 ± 0.0002856
69.8
69.7
69.6
69.5
69.4
69.3
pull
Entries 62
Mean 1015
Std Dev 984.8
100
50
0
−50
−100

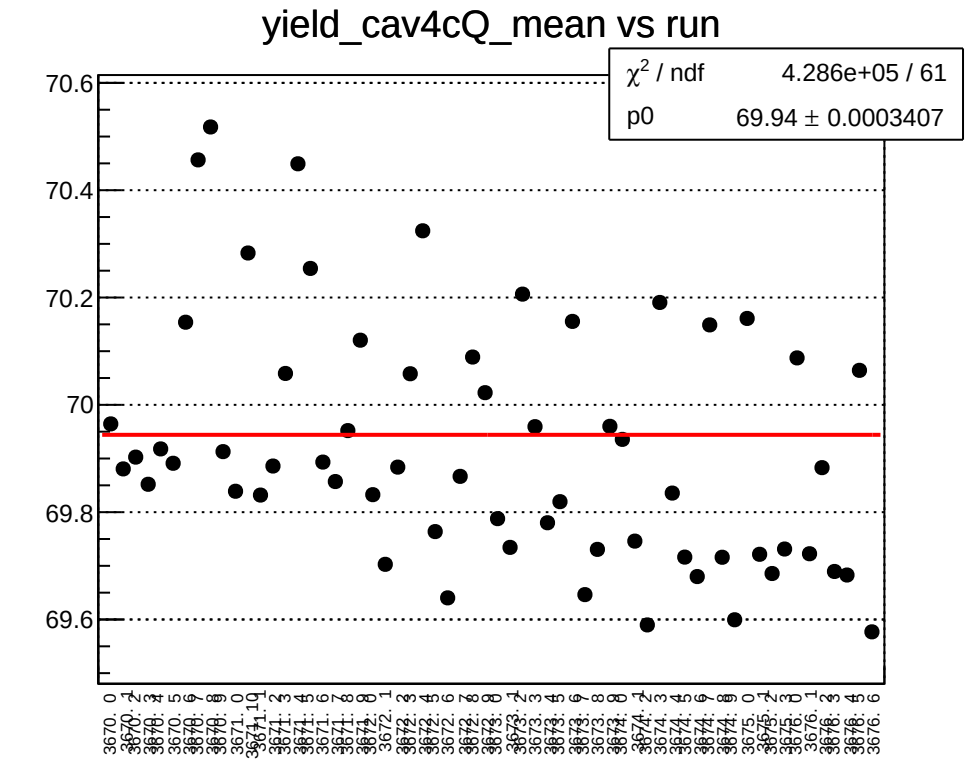

pull1D
Entries 62
Mean −0.9276
Std Dev 5.156
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

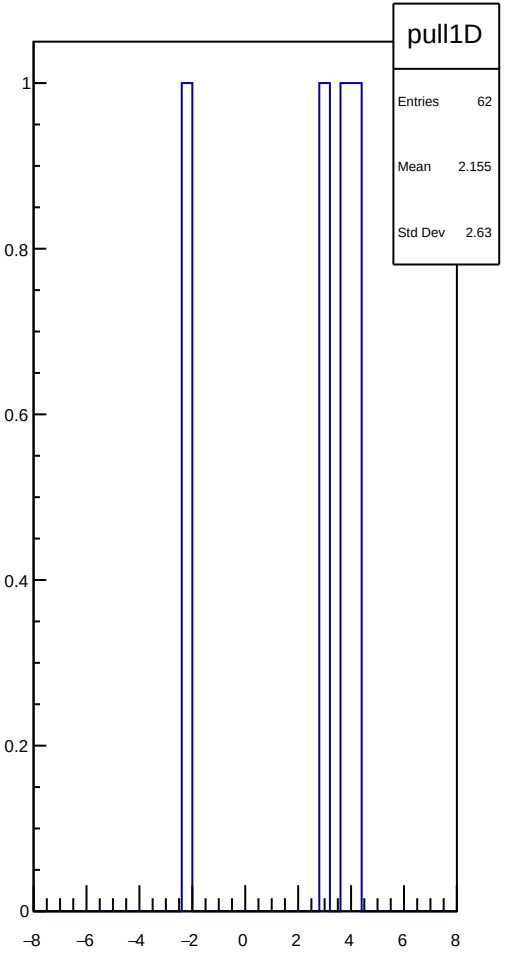

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.295e+04 / 61
p0 0.2173 ± 0.0002019
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

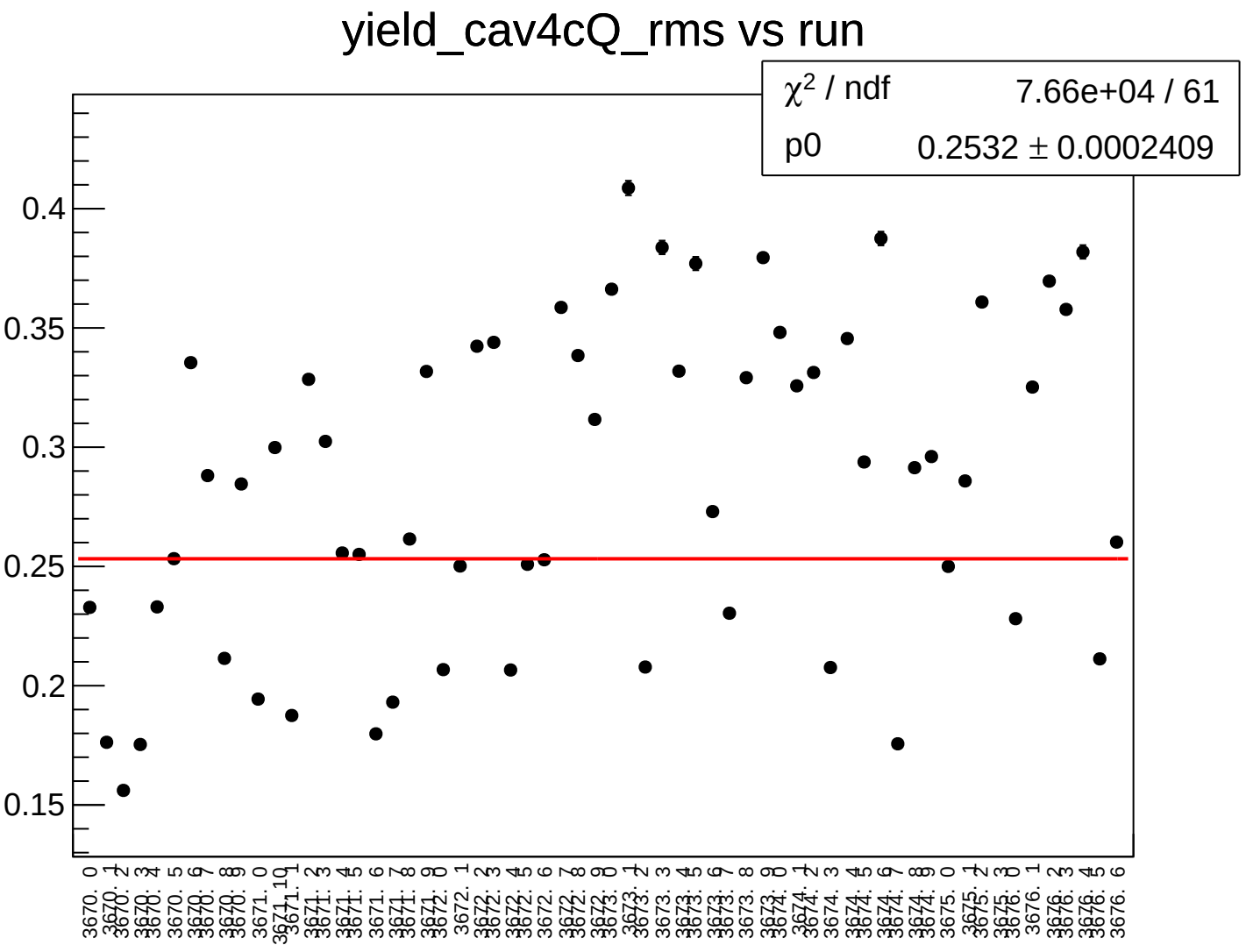

yield_cav4bQ_mean vs run
χ² / ndf 1.854e+05 / 61
p0 401.9 ± 8.564e−06
401.95
401.948
401.946
401.944
401.942
401.94
401.938
401.936
401.934
401.932
pull
Entries 62
Mean −95.76
Std Dev 51.05
100
50
0
−50
−100

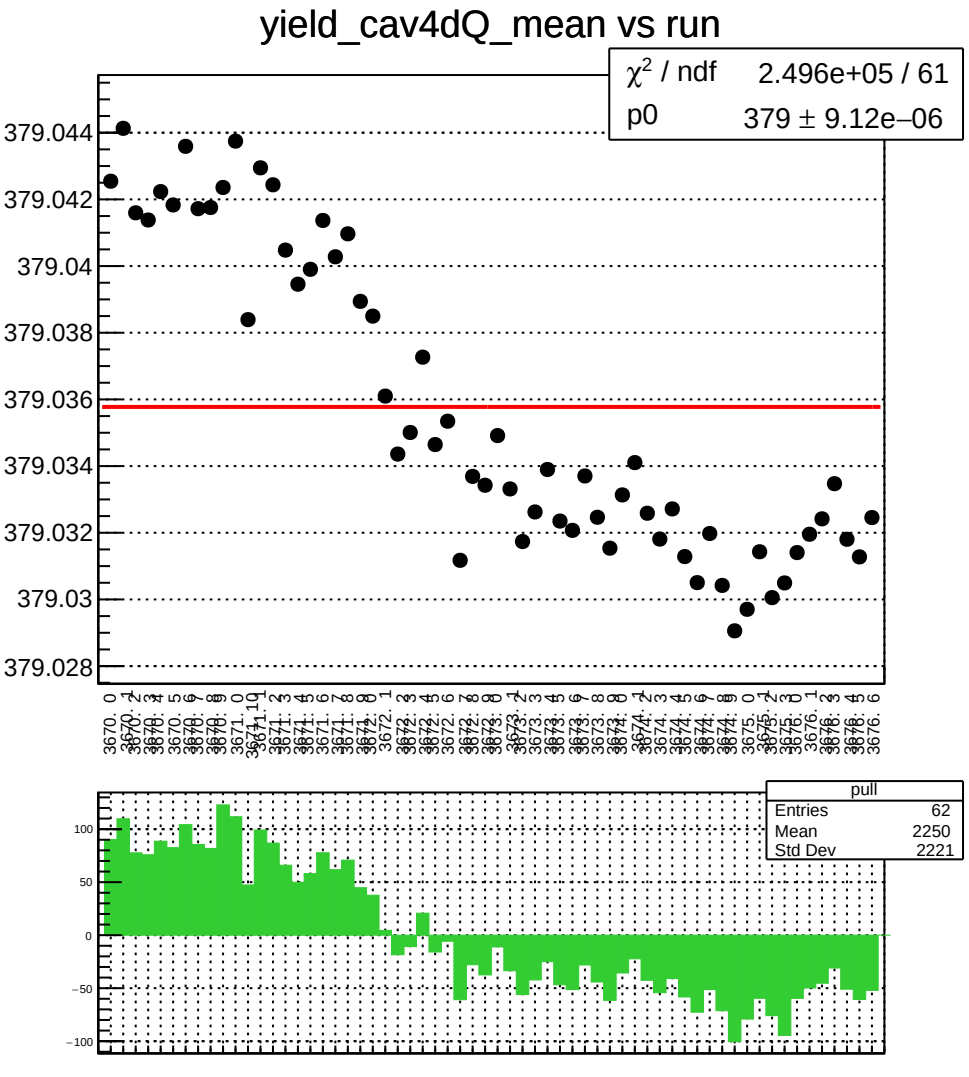

pull1D
Entries 62
Mean 1.763
Std Dev 5.686
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

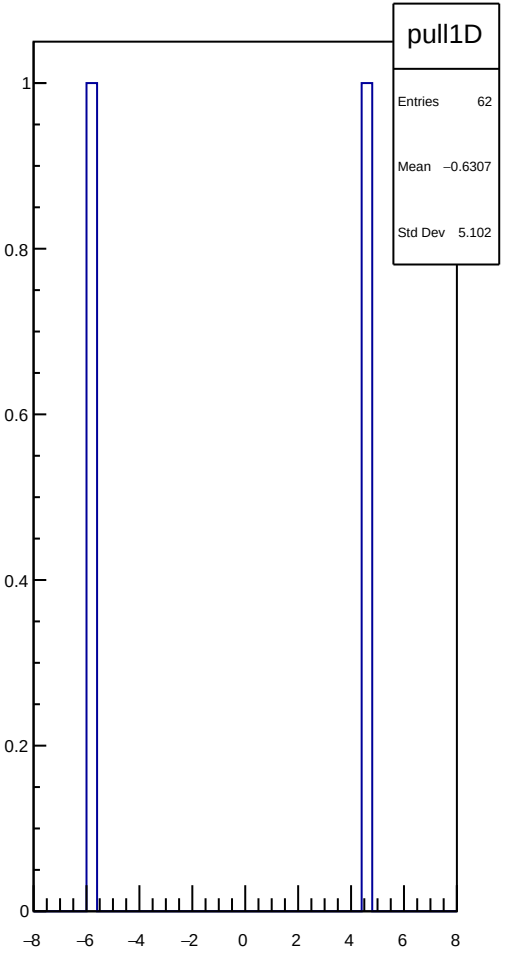

yield_cav4bQ_rms vs run
χ² / ndf 1112 / 61
p0 0.006578 ± 6.056e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006

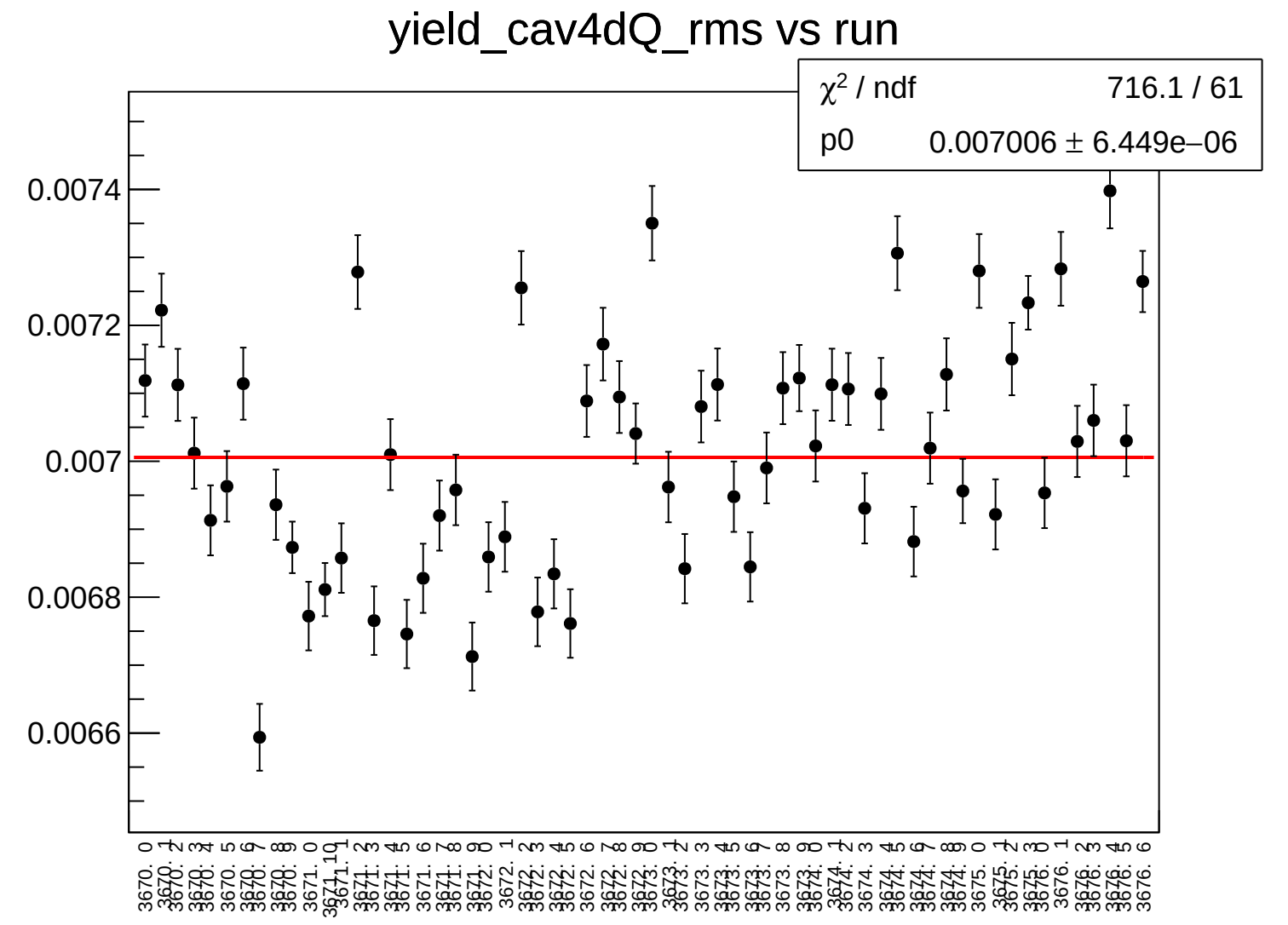

yield_cav4cQ_mean vs run
χ² / ndf 4.286e+05 / 61
p0 69.94 ± 0.0003407
70.6
70.4
70.2
70
69.8
69.6
pull
Entries 62
Mean 144.4
Std Dev 110.5
250
200
150
100
50
0
−50
−100
−150

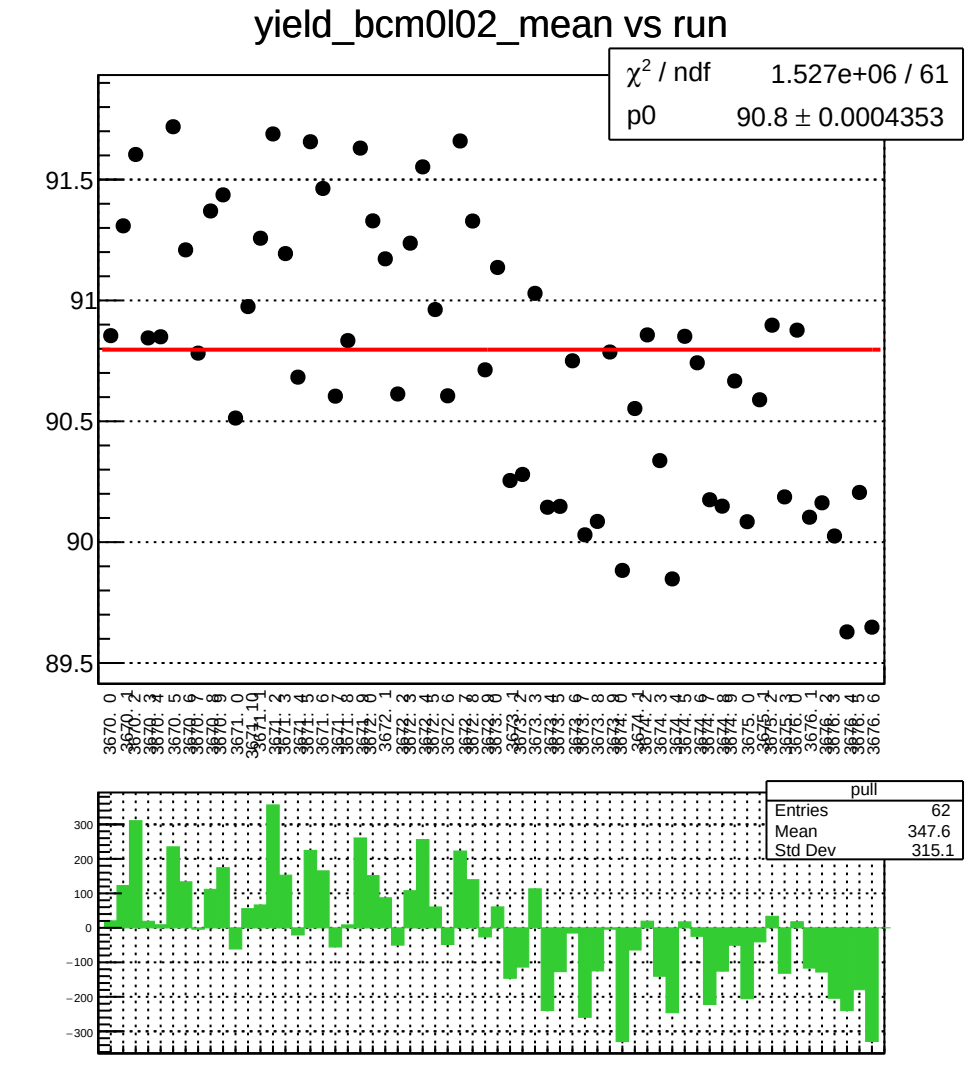

pull1D
Entries 62
Mean 2.155
Std Dev 2.63
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

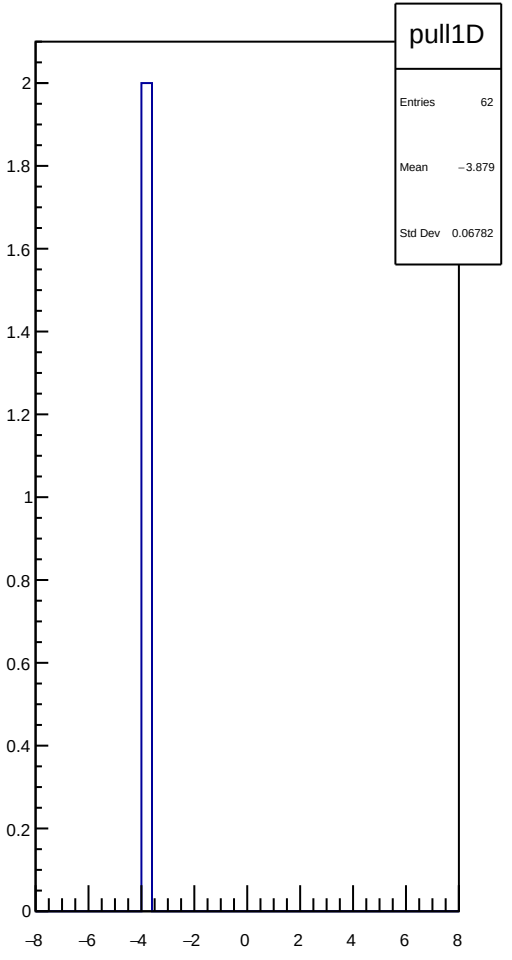

yield_cav4cQ_rms vs run
χ² / ndf 7.66e+04 / 61
p0 0.2532 ± 0.0002409
0.4
0.35
0.3
0.25
0.2
0.15

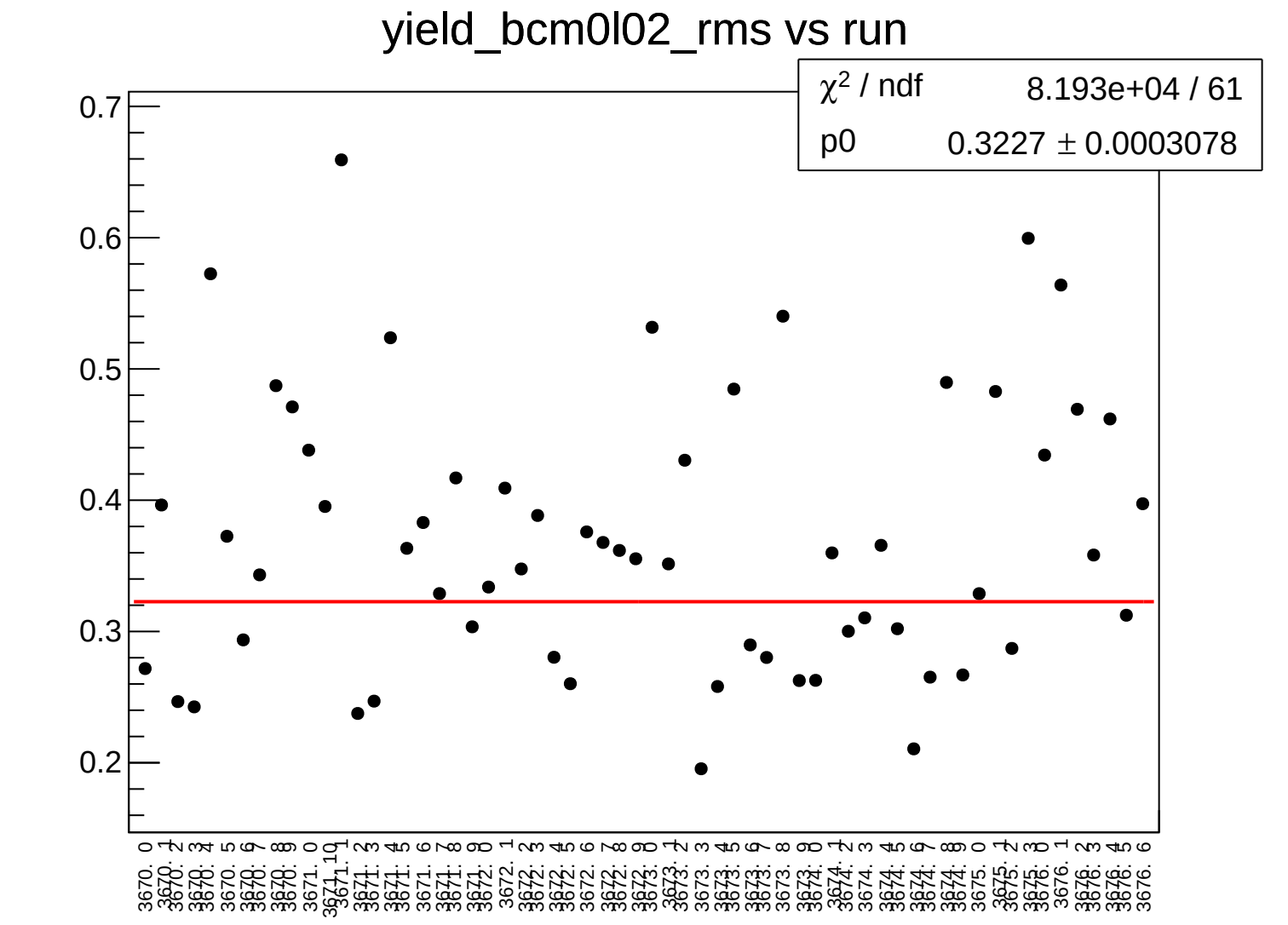

yield_cav4dQ_mean vs run
χ² / ndf 2.496e+05 / 61
p0 379 ± 9.12e−06
379.044
379.042
379.04
379.038
379.036
379.034
379.032
379.03
379.028
pull
Entries 62
Mean 2250
Std Dev 2221
100
50
0
−50
−100

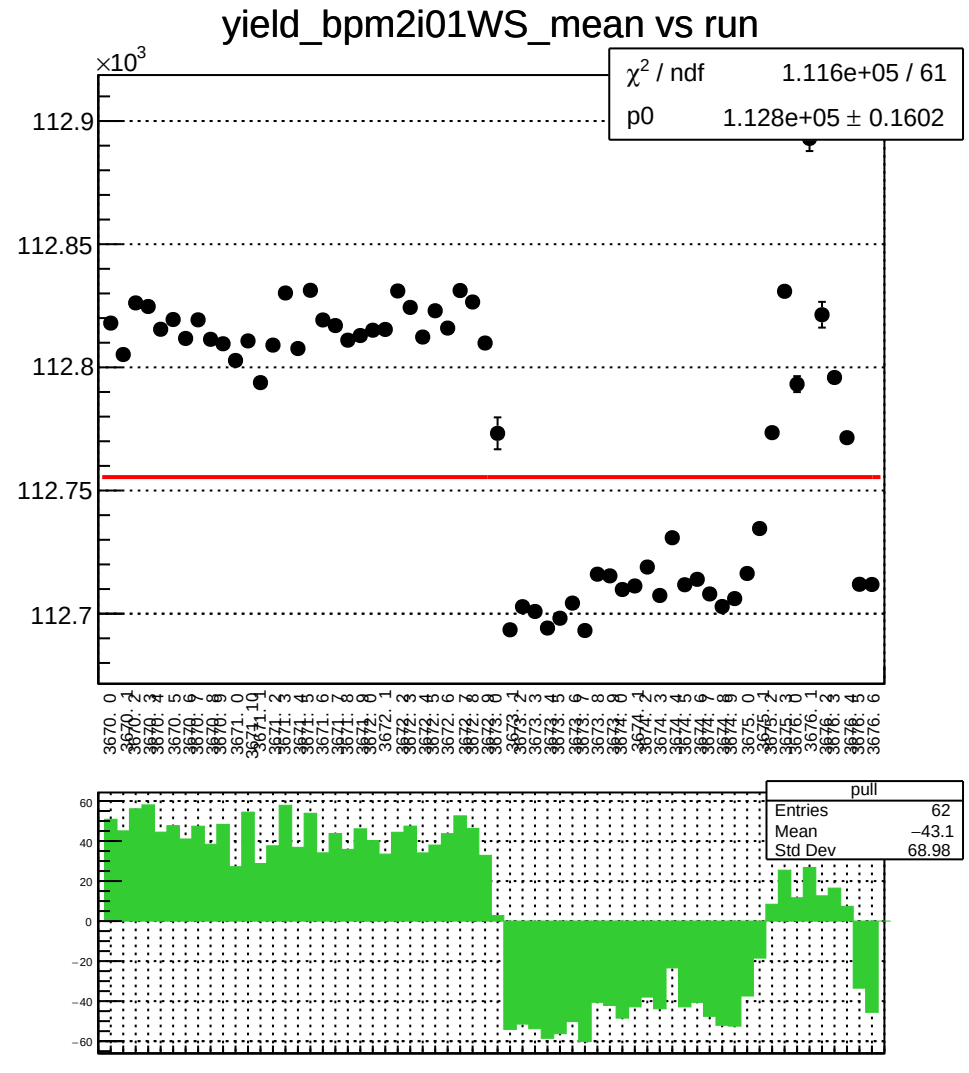

pull1D
Entries 62
Mean −0.6307
Std Dev 5.102
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

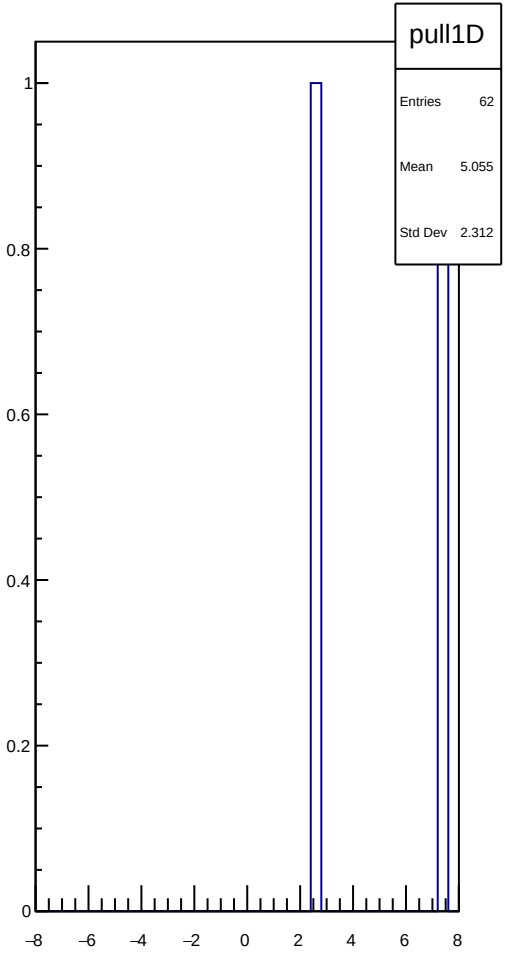

yield_cav4dQ_rms vs run
χ² / ndf 716.1 / 61
p0 0.007006 ± 6.449e−06
0.0074
0.0072
0.007
0.0068
0.0066
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

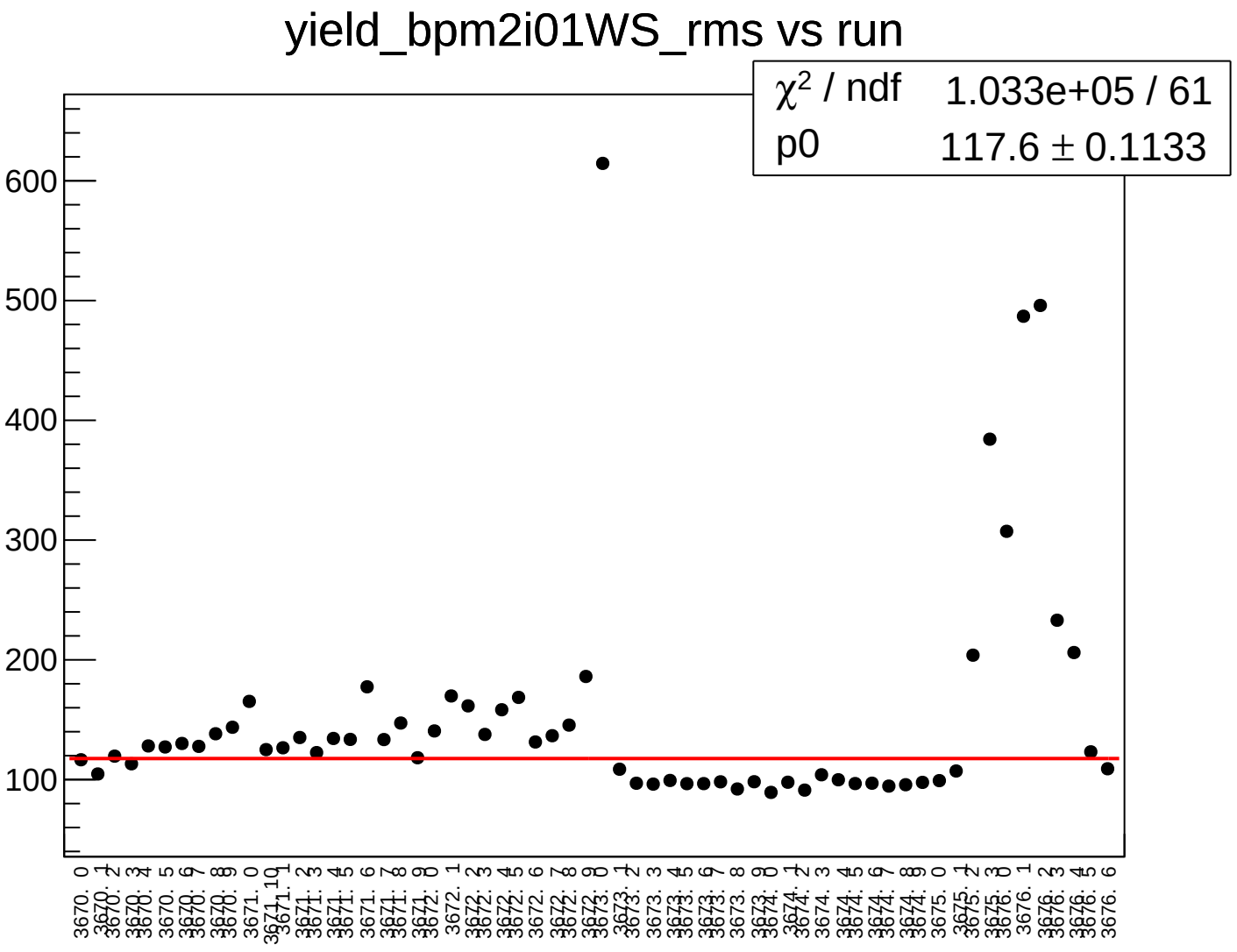

yield_bcm0l02_mean vs run
χ² / ndf 1.527e+06 / 61
p0 90.8 ± 0.0004353
91.5
91
90.5
90
89.5
pull
Entries 62
Mean 347.6
Std Dev 315.1
300
200
100
0
−100
−200
−300

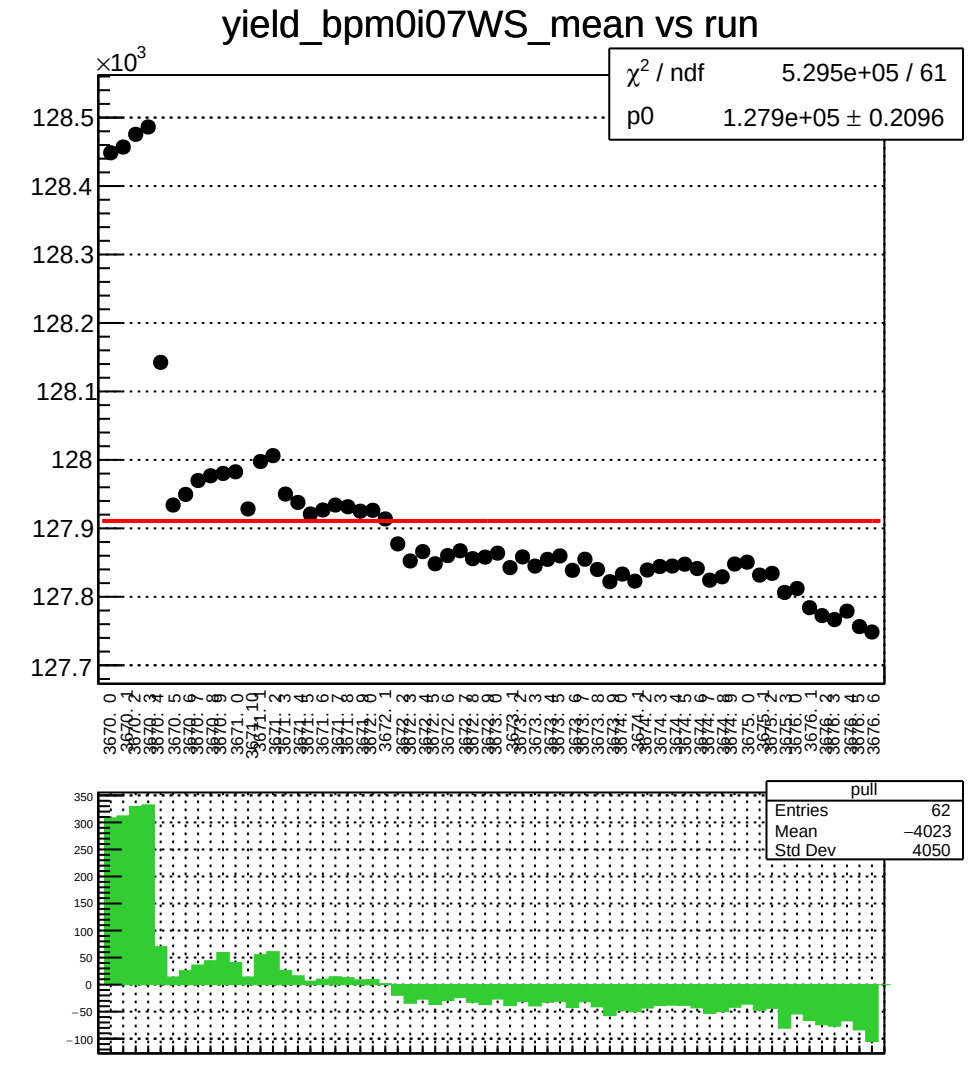

pull1D
Entries 62
Mean −3.879
Std Dev 0.06782
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

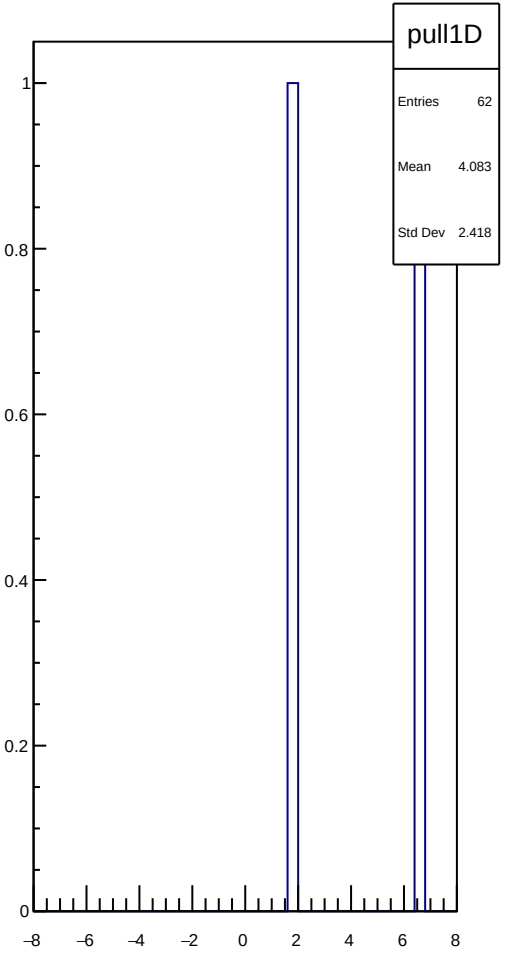

yield_bcm0l02_rms vs run
χ² / ndf 8.193e+04 / 61
p0 0.3227 ± 0.0003078
0.7
0.6
0.5
0.4
0.3
0.2

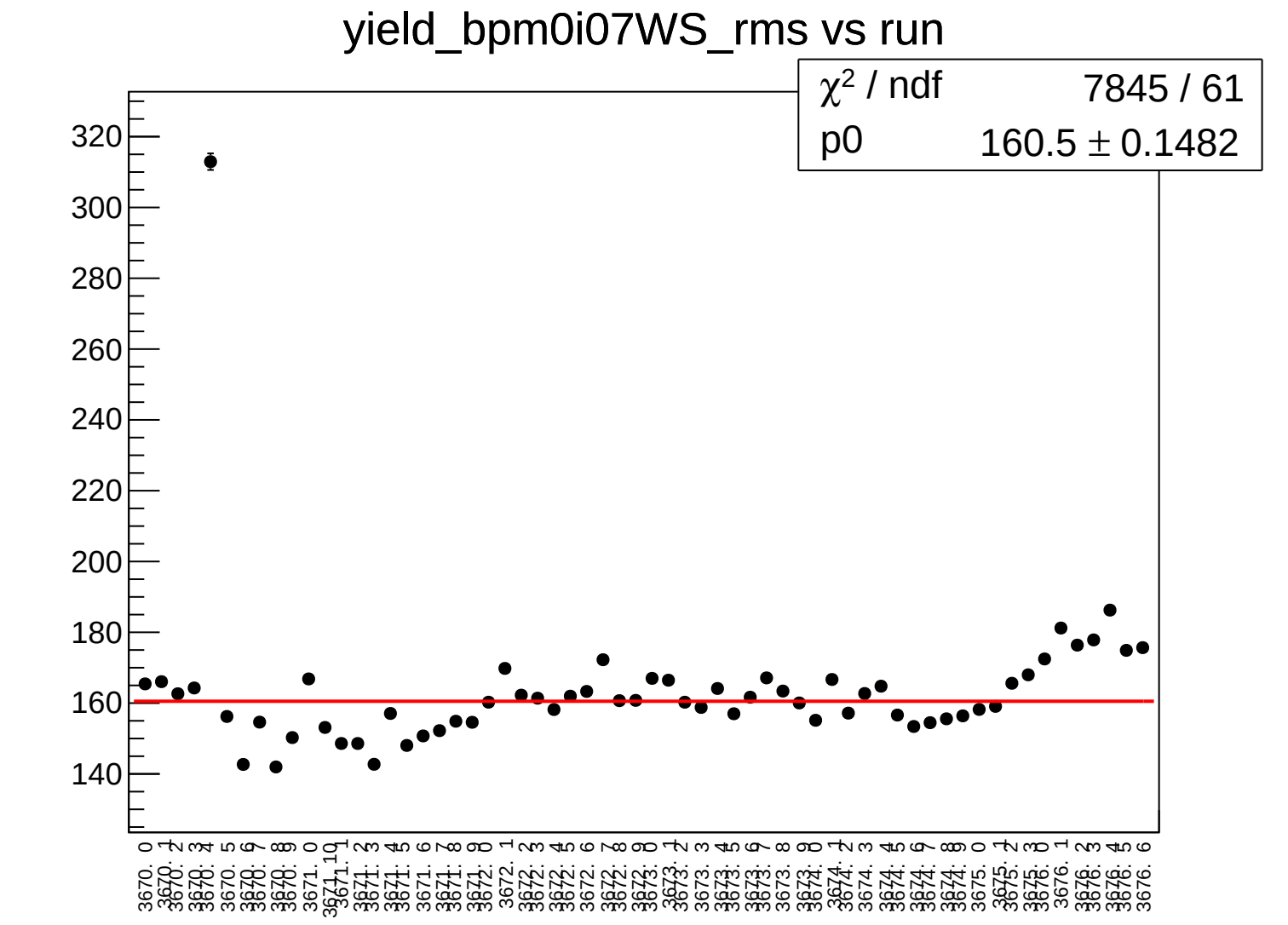

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.116e+05 / 61
p0 1.128e+05 ± 0.1602
112.9
112.85
112.8
112.75
112.7
pull
Entries 62
Mean −43.1
Std Dev 68.98
60
40
20
0
−20
−40
−60

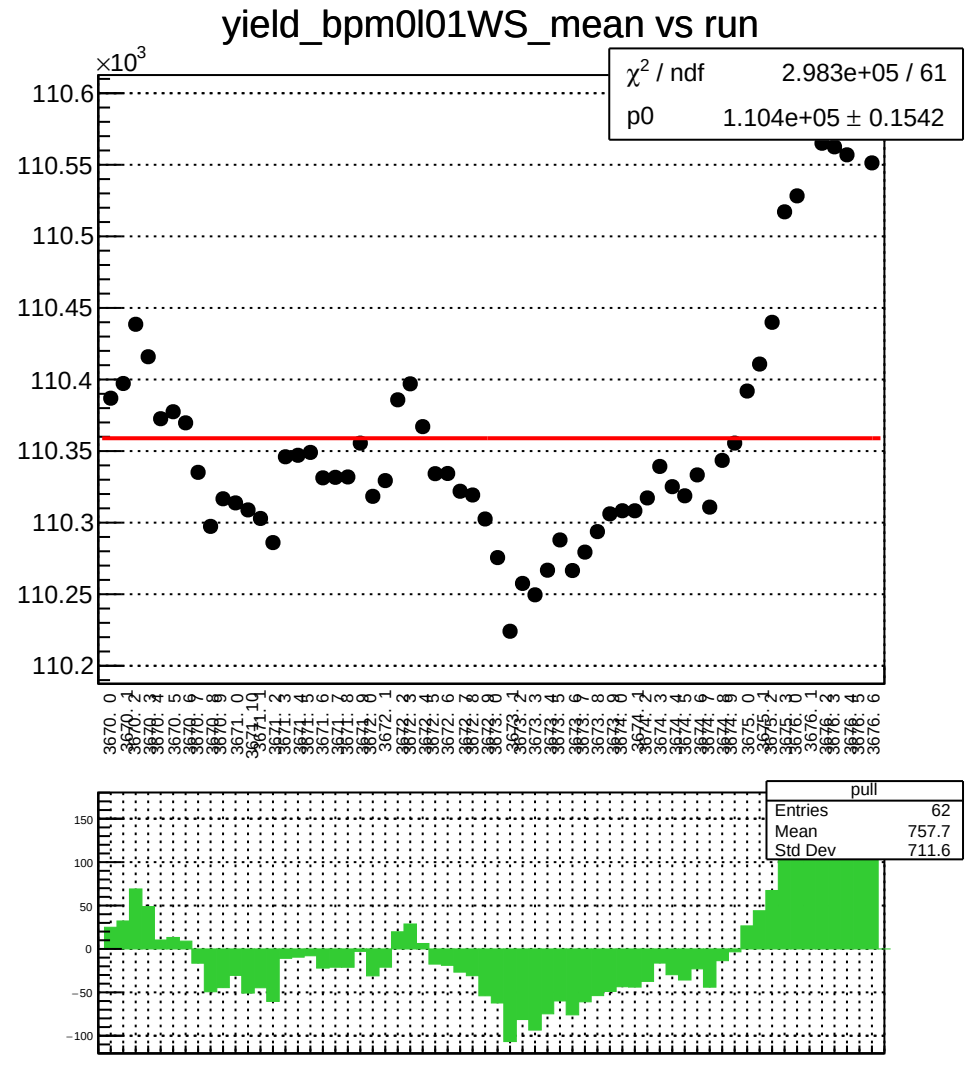

pull1D
Entries 62
Mean 5.055
Std Dev 2.312
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

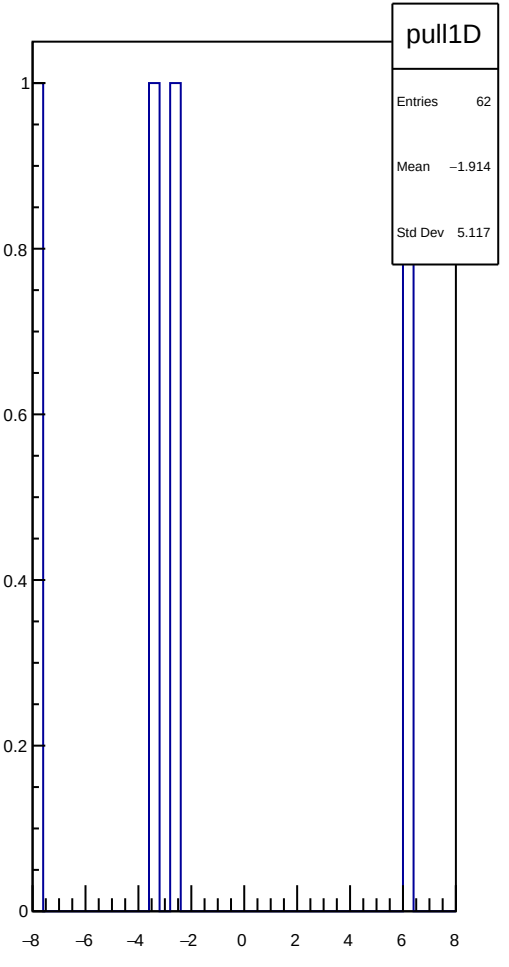

yield_bpm2i01WS_rms vs run
χ^2 / ndf 1.033e+05 / 61
p0 117.6 ± 0.1133
600
500
400
300
200
100
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

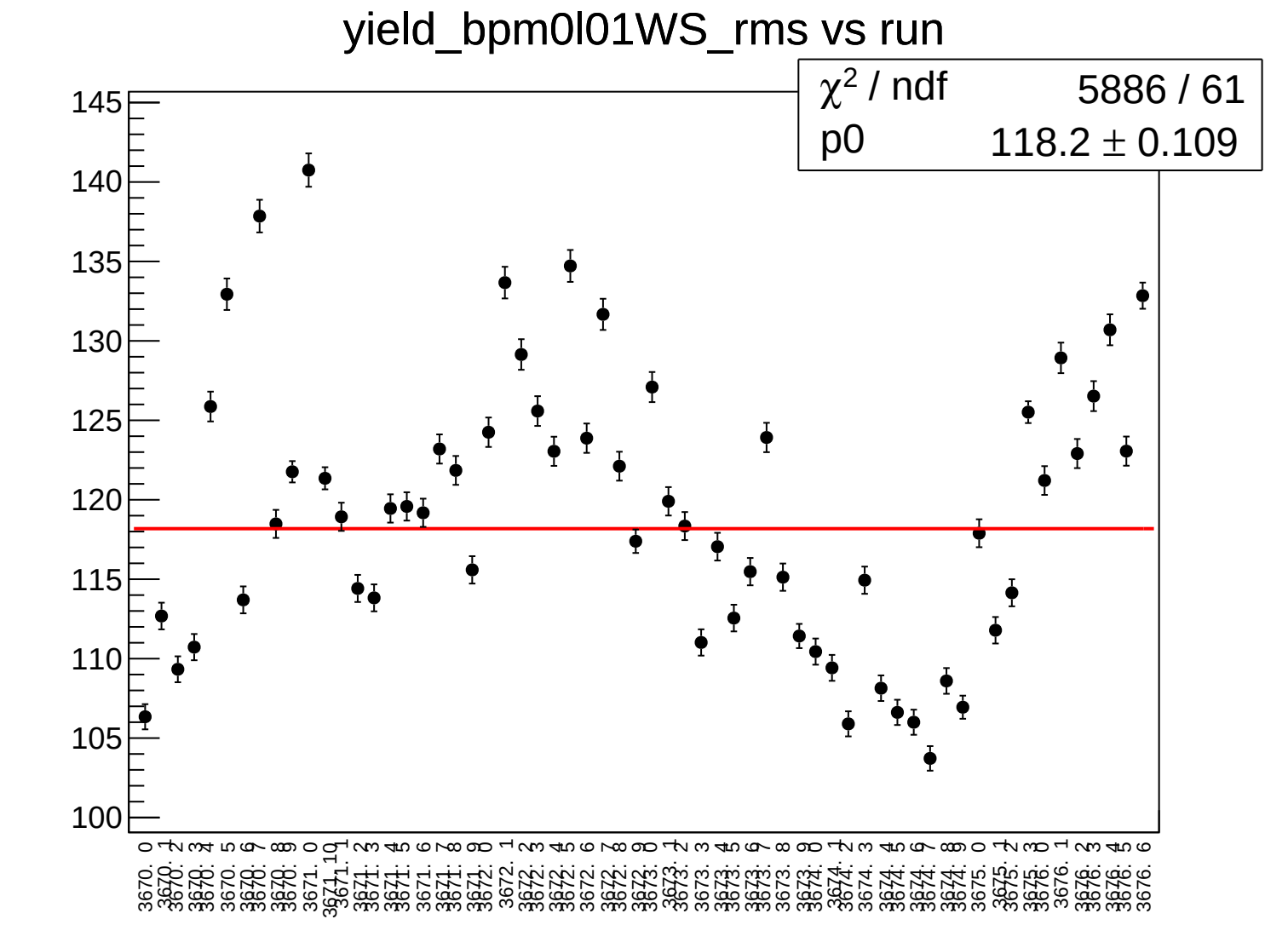

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 5.295e+05 / 61
p0 1.279e+05 ± 0.2096
128.5
128.4
128.3
128.2
128.1
128
127.9
127.8
127.7
pull
Entries 62
Mean −4023
Std Dev 4050
350
300
250
200
150
100
50
0
−50
−100

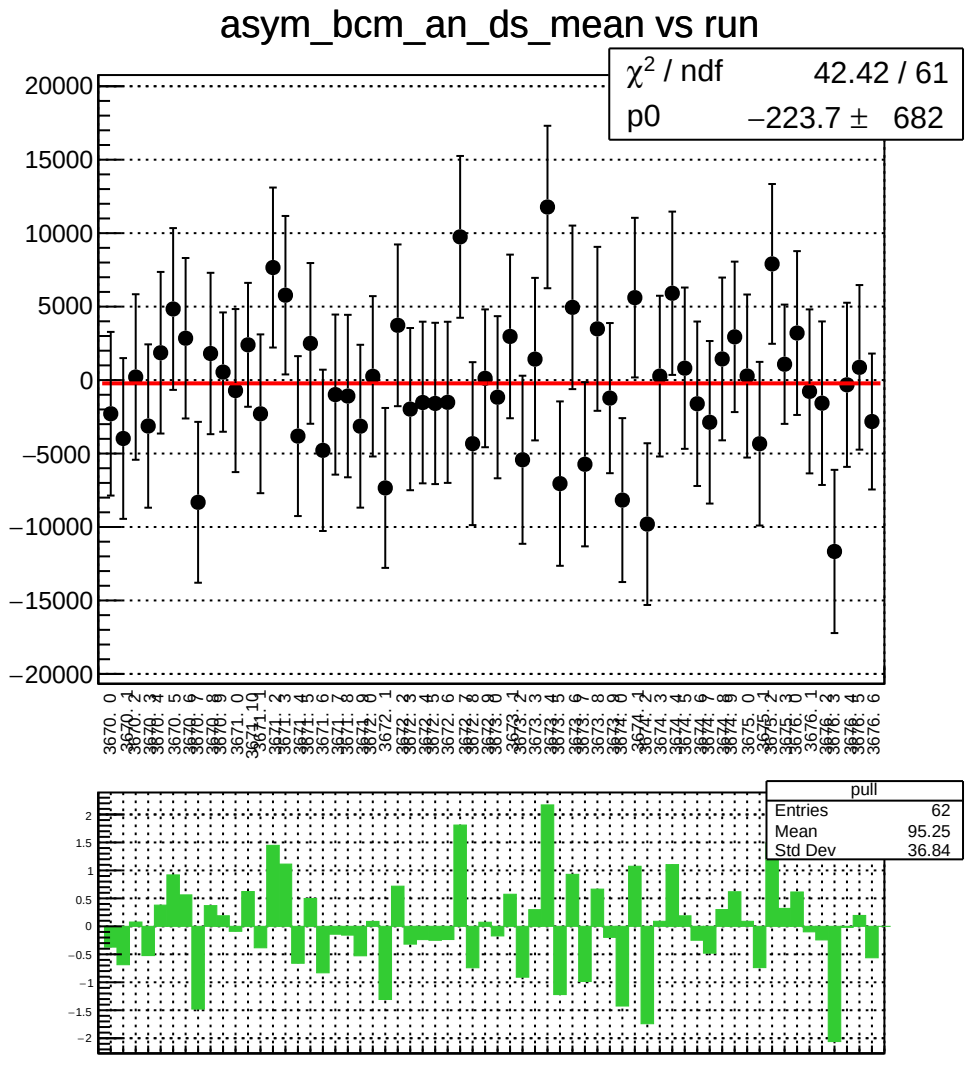

pull1D
Entries 62
Mean 4.083
Std Dev 2.418
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

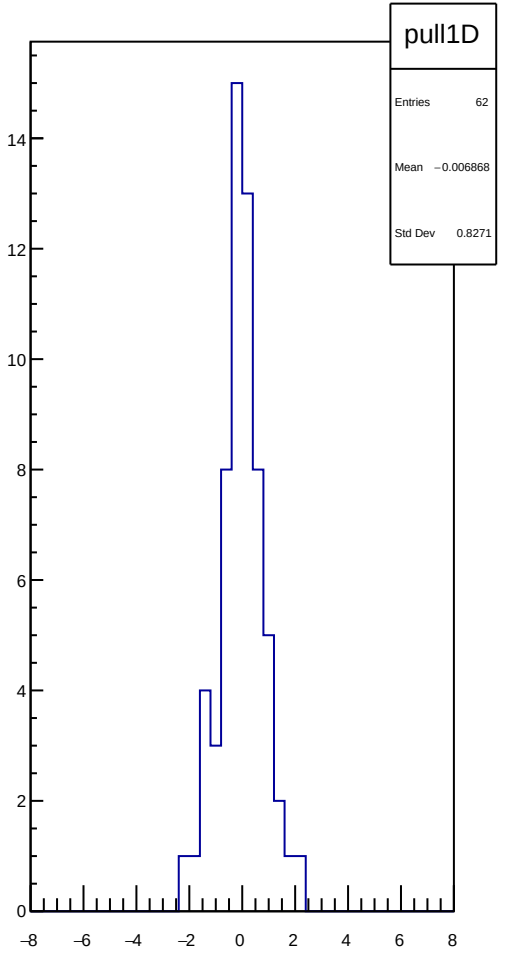

yield_bpm0i07WS_rms vs run
χ² / ndf 7845 / 61
p0 160.5 ± 0.1482
320
300
280
260
240
220
200
180
160
140

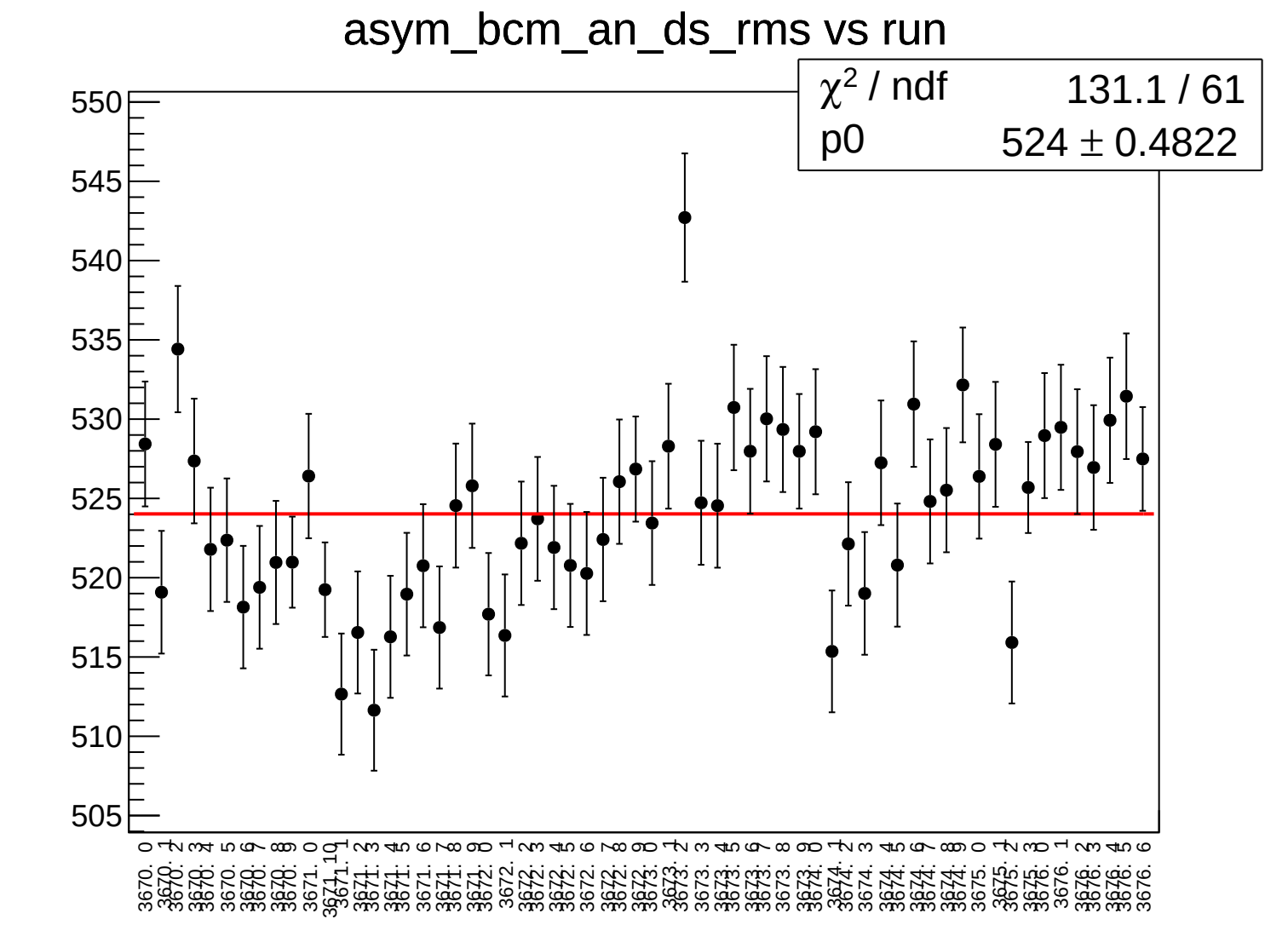

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.983e+05 / 61
p0 1.104e+05 ± 0.1542
110.6
110.55
110.5
110.45
110.4
110.35
110.3
110.25
110.2
pull
Entries 62
Mean 757.7
Std Dev 711.6
150
100
50
0
−50
−100

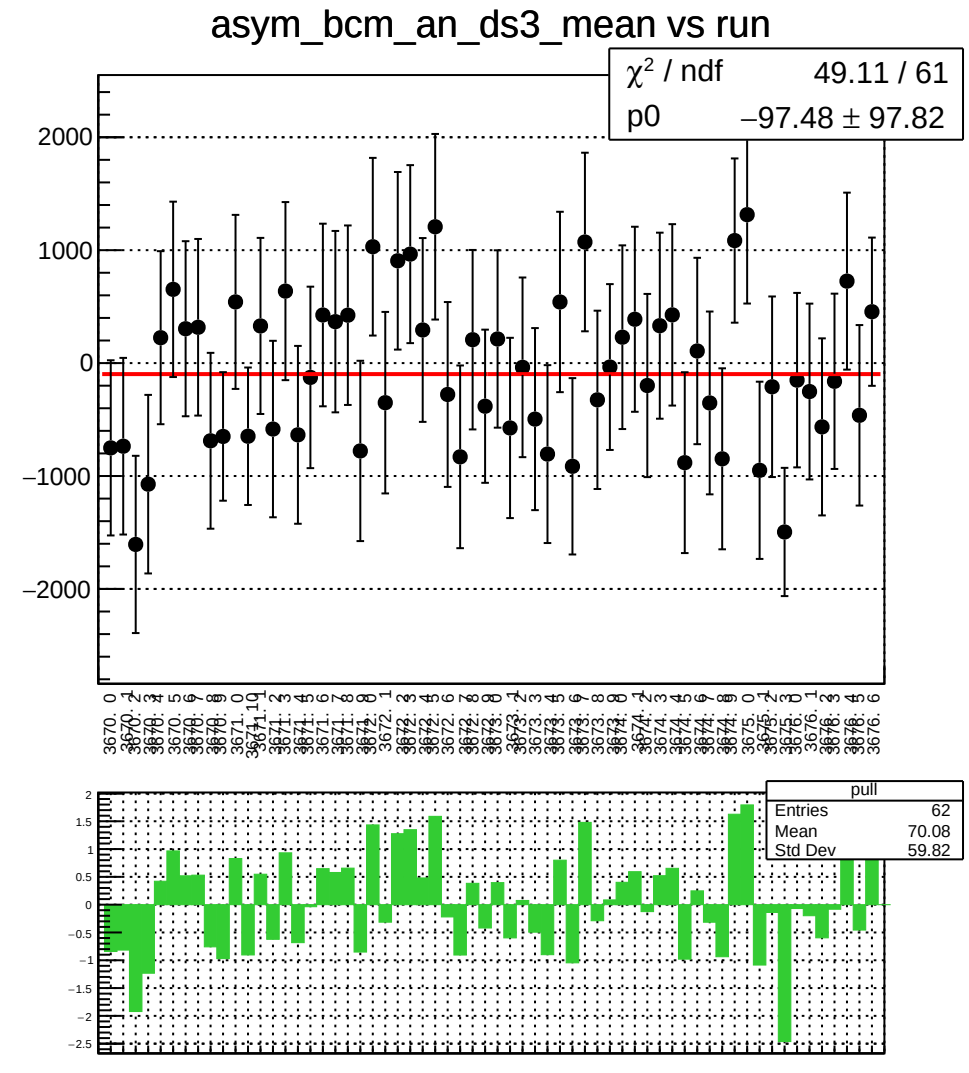

pull1D
Entries 62
Mean −1.914
Std Dev 5.117
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

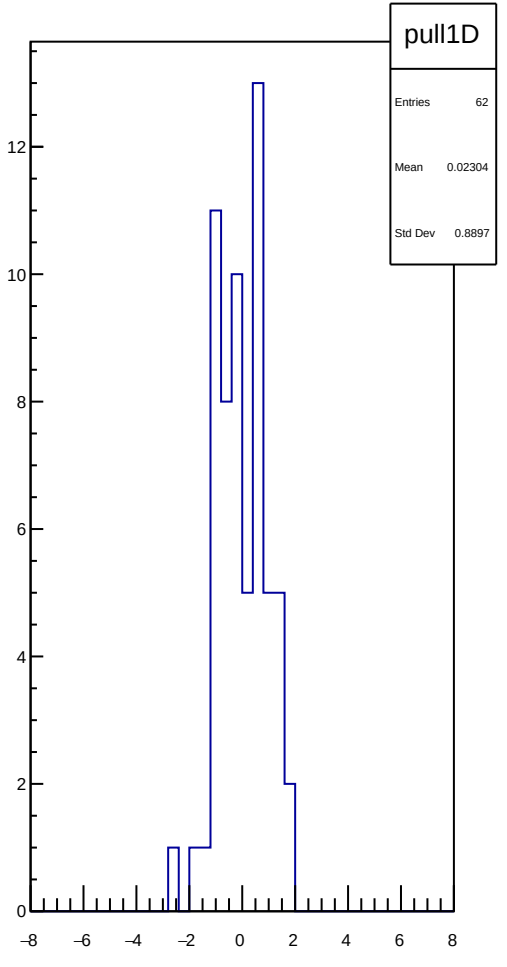

yield_bpm0l01WS_rms vs run
χ² / ndf 5886 / 61
p0 118.2 ± 0.109
145
140
135
130
125
120
115
110
105
100
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

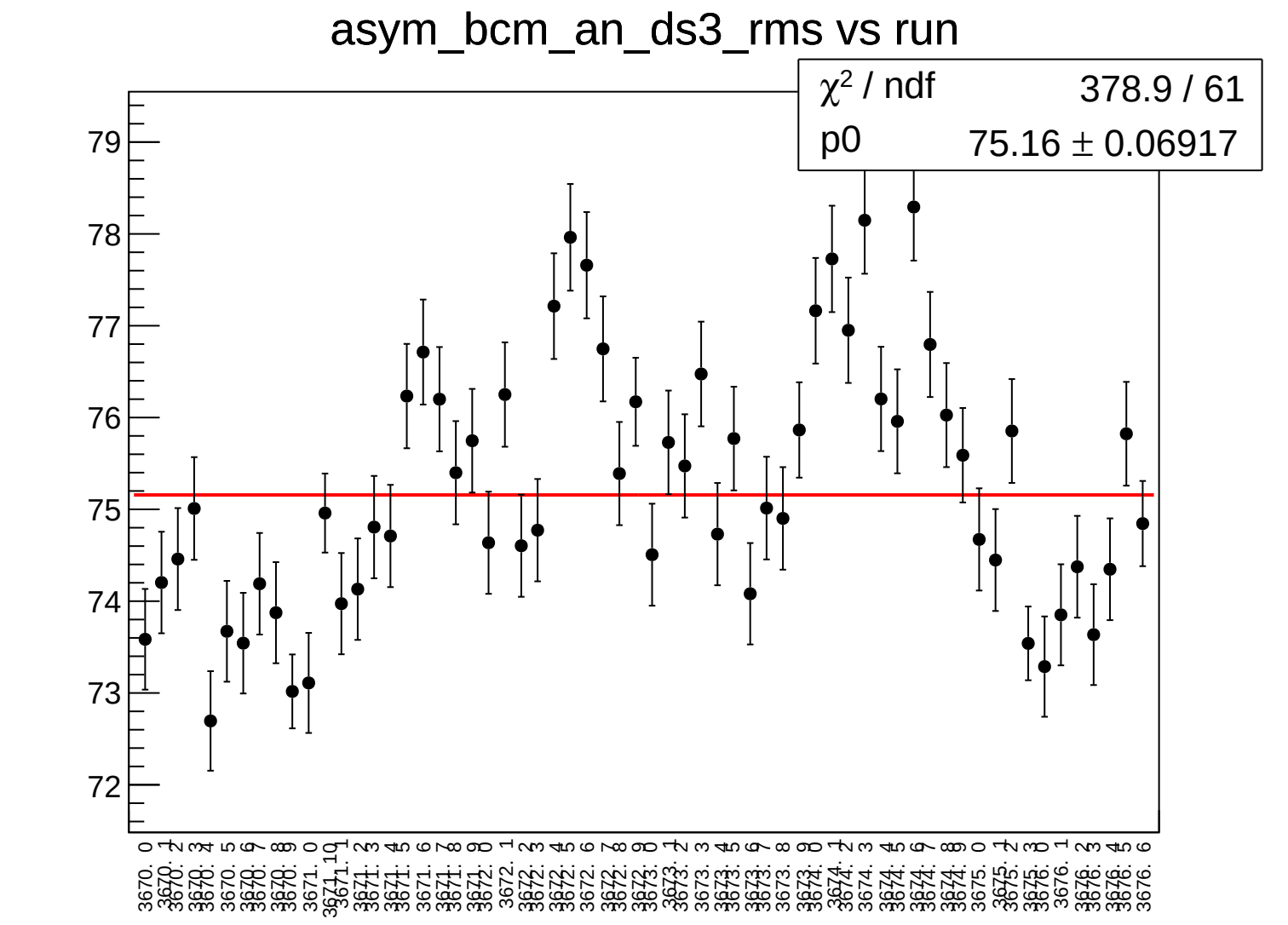

asym_bcm_an_ds_mean vs run
χ² / ndf 42.42 / 61
p0 −223.7 ± 682
pull
Entries 62
Mean 95.25
Std Dev 36.84

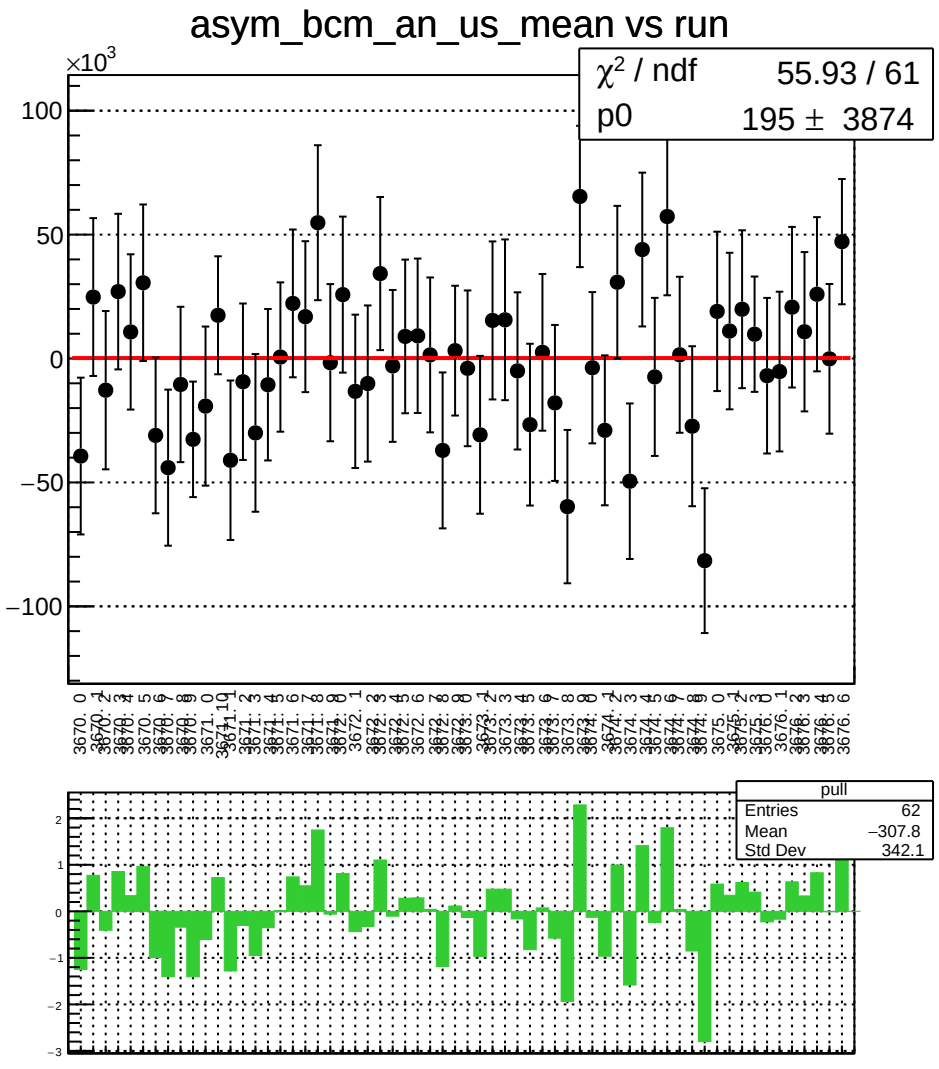

pull1D
Entries 62
Mean −0.006868
Std Dev 0.8271

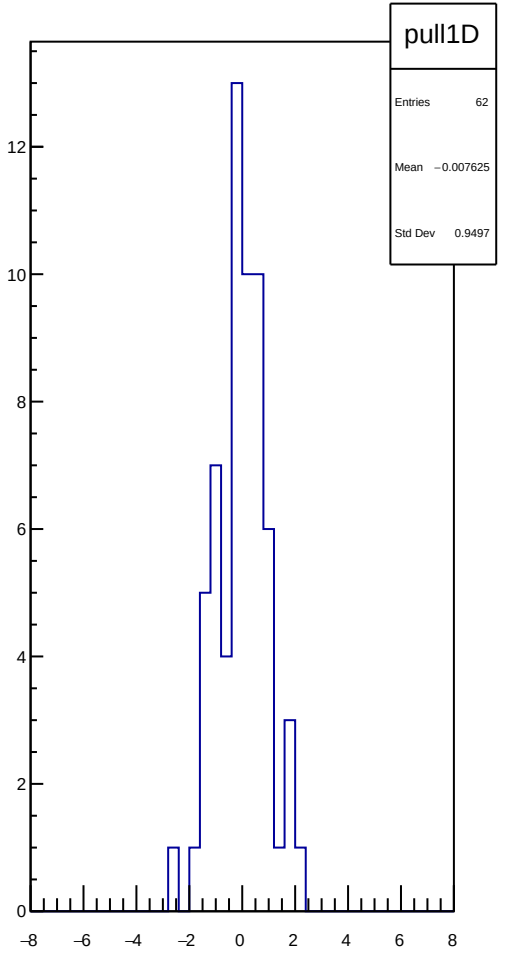

asym_bcm_an_ds_rms vs run
χ^2 / ndf 131.1 / 61
p0 524 ± 0.4822
550
545
540
535
530
525
520
515
510
505

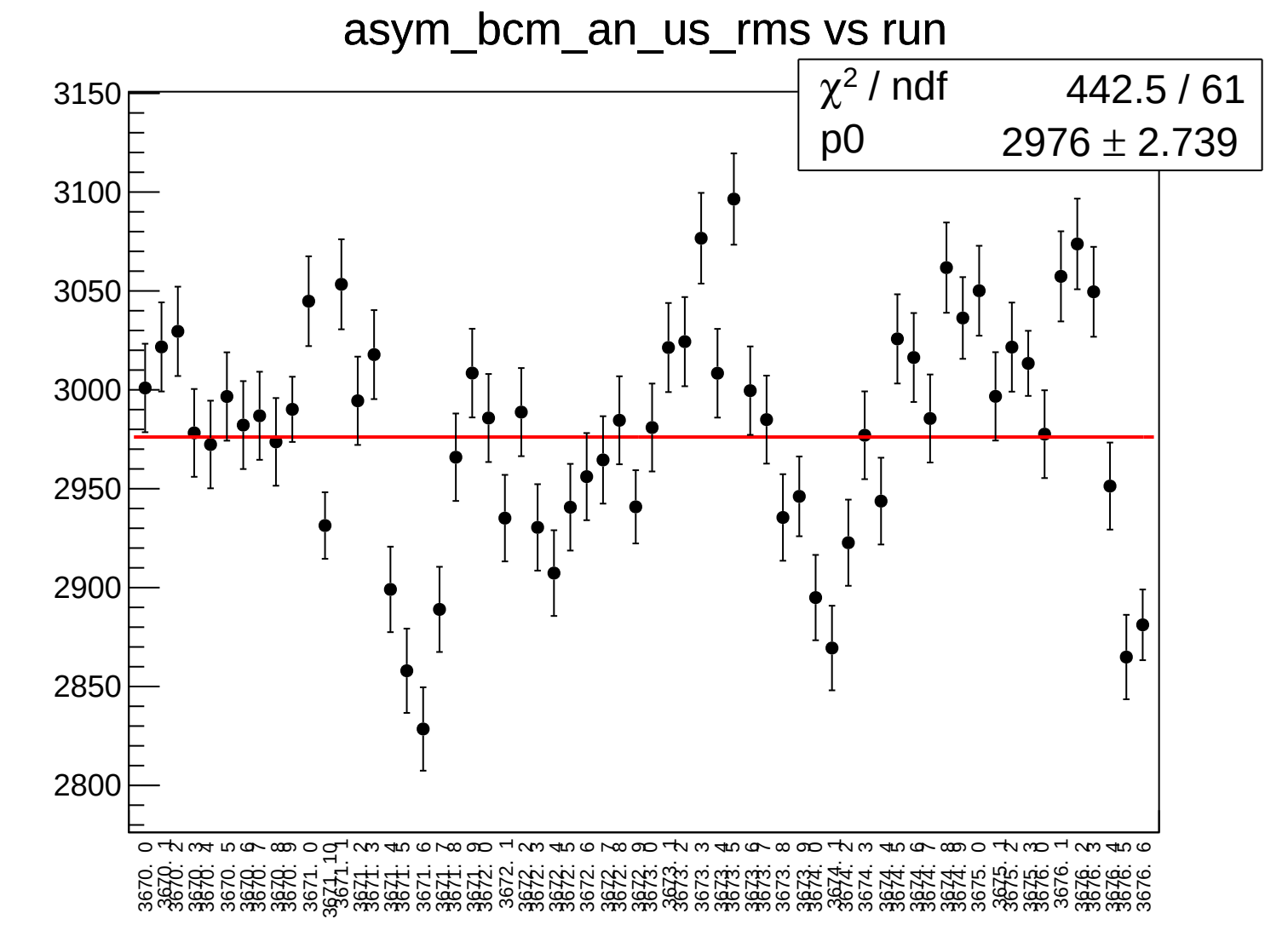

asym_bcm_an_ds3_mean vs run
χ² / ndf 49.11 / 61
p0 −97.48 ± 97.82
2000
1000
0
−1000
−2000
pull
Entries 62
Mean 70.08
Std Dev 59.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

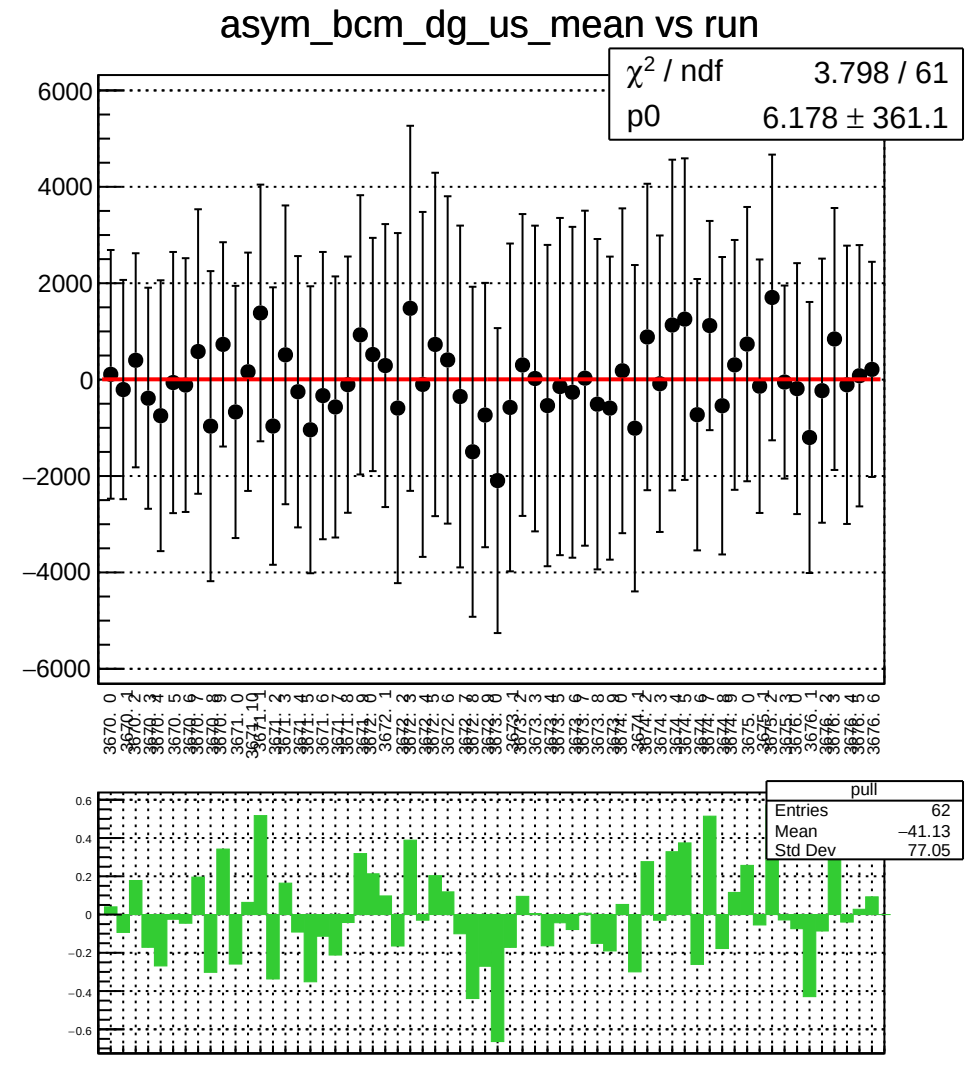

pull1D
Entries 62
Mean 0.02304
Std Dev 0.8897
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

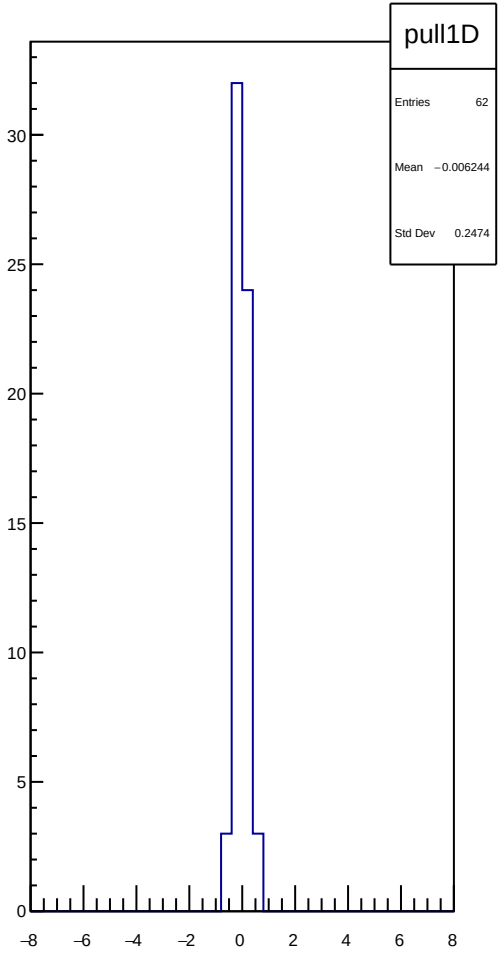

asym_bcm_an_ds3_rms vs run
χ² / ndf 378.9 / 61
p0 75.16 ± 0.06917
79
78
77
76
75
74
73
72

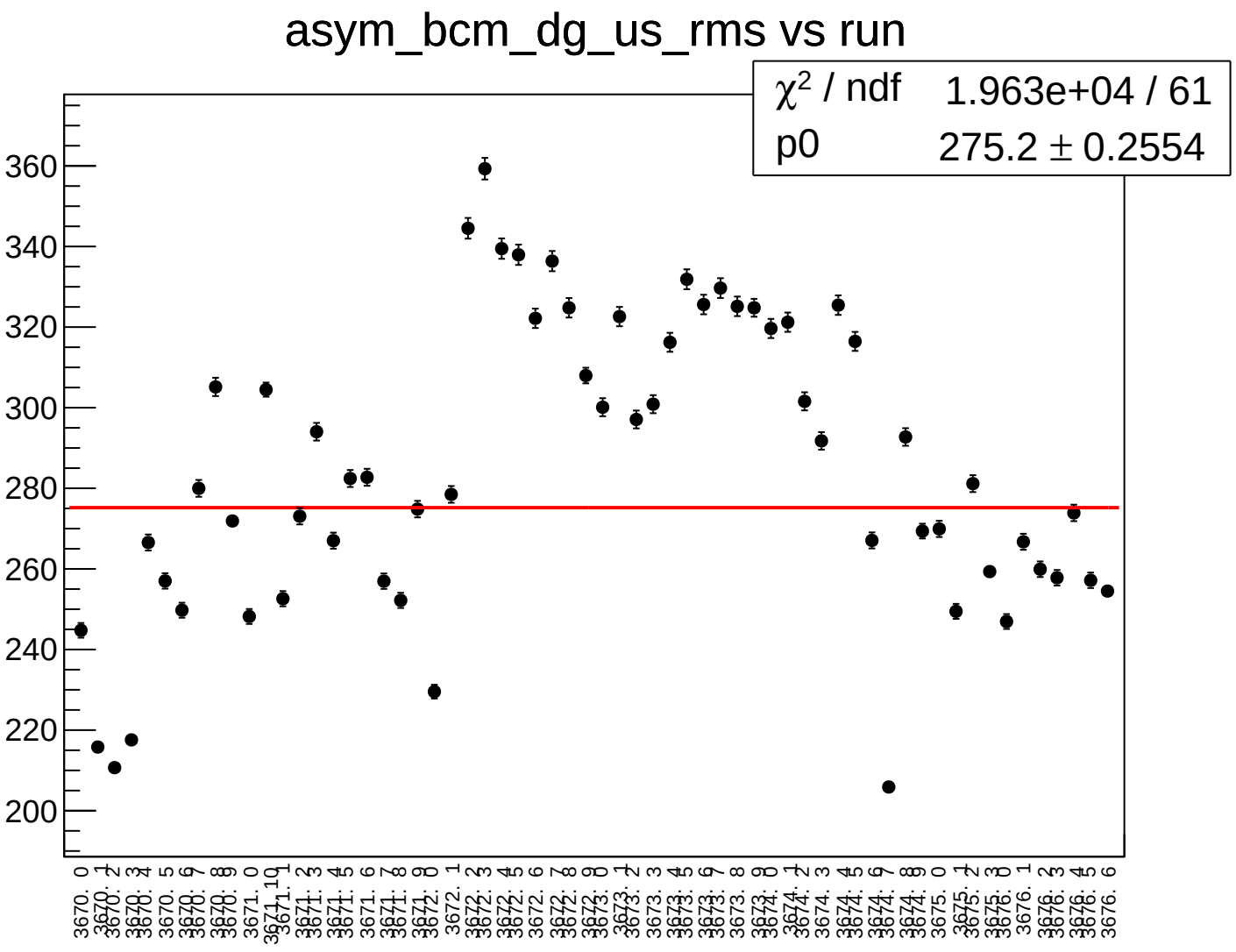

asym_bcm_an_us_mean vs run
×10^3
χ² / ndf 55.93 / 61
p0 195 ± 3874
100
50
0
−50
−100
pull
Entries 62
Mean −307.8
Std Dev 342.1
2
1
0
−1
−2
−3

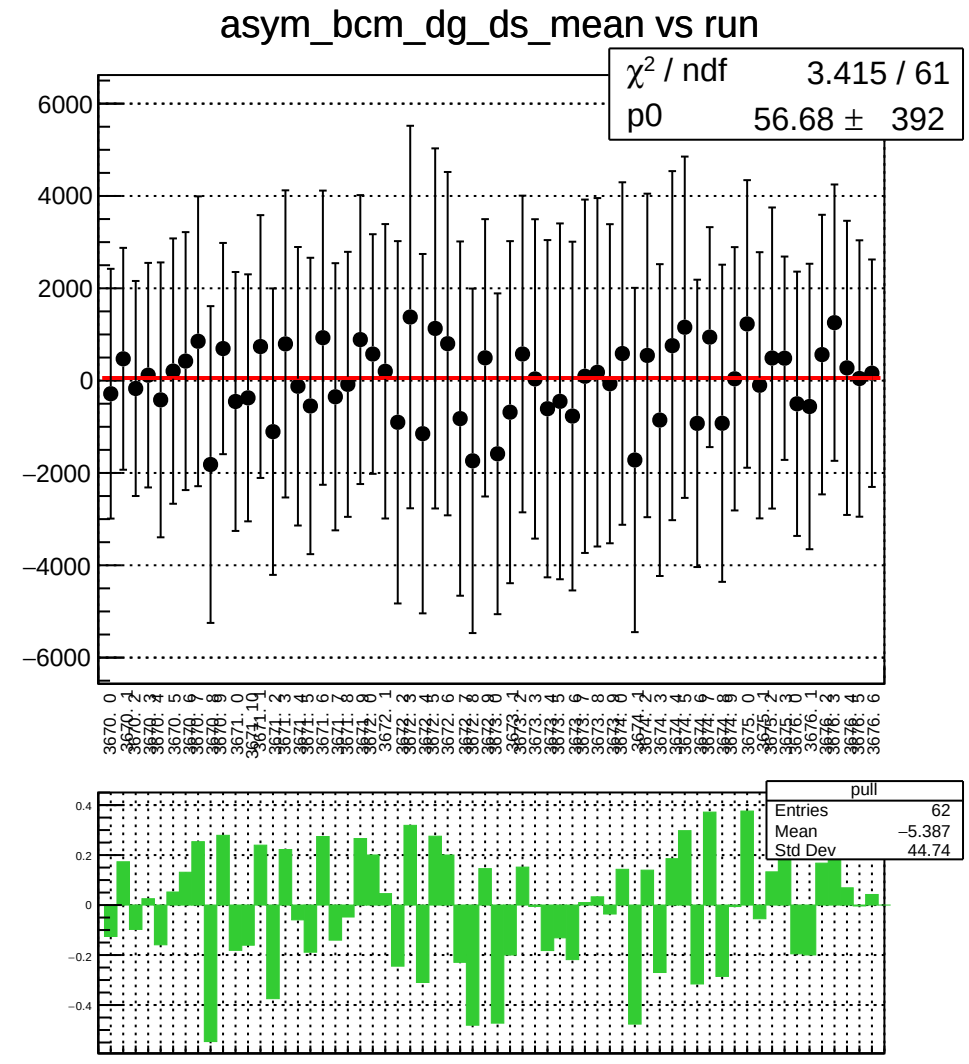

pull1D
Entries 62
Mean −0.007625
Std Dev 0.9497
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

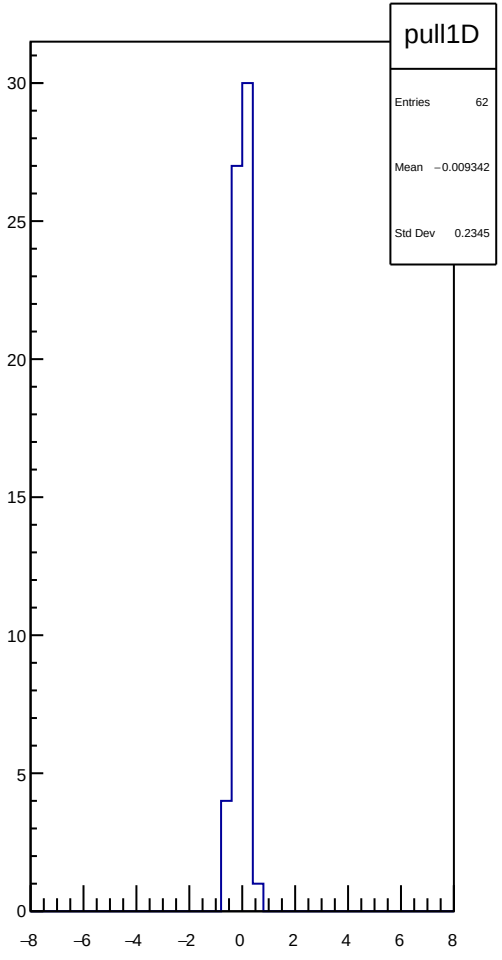

asym_bcm_an_us_rms vs run
χ² / ndf 442.5 / 61
p0 2976 ± 2.739
3150
3100
3050
3000
2950
2900
2850
2800

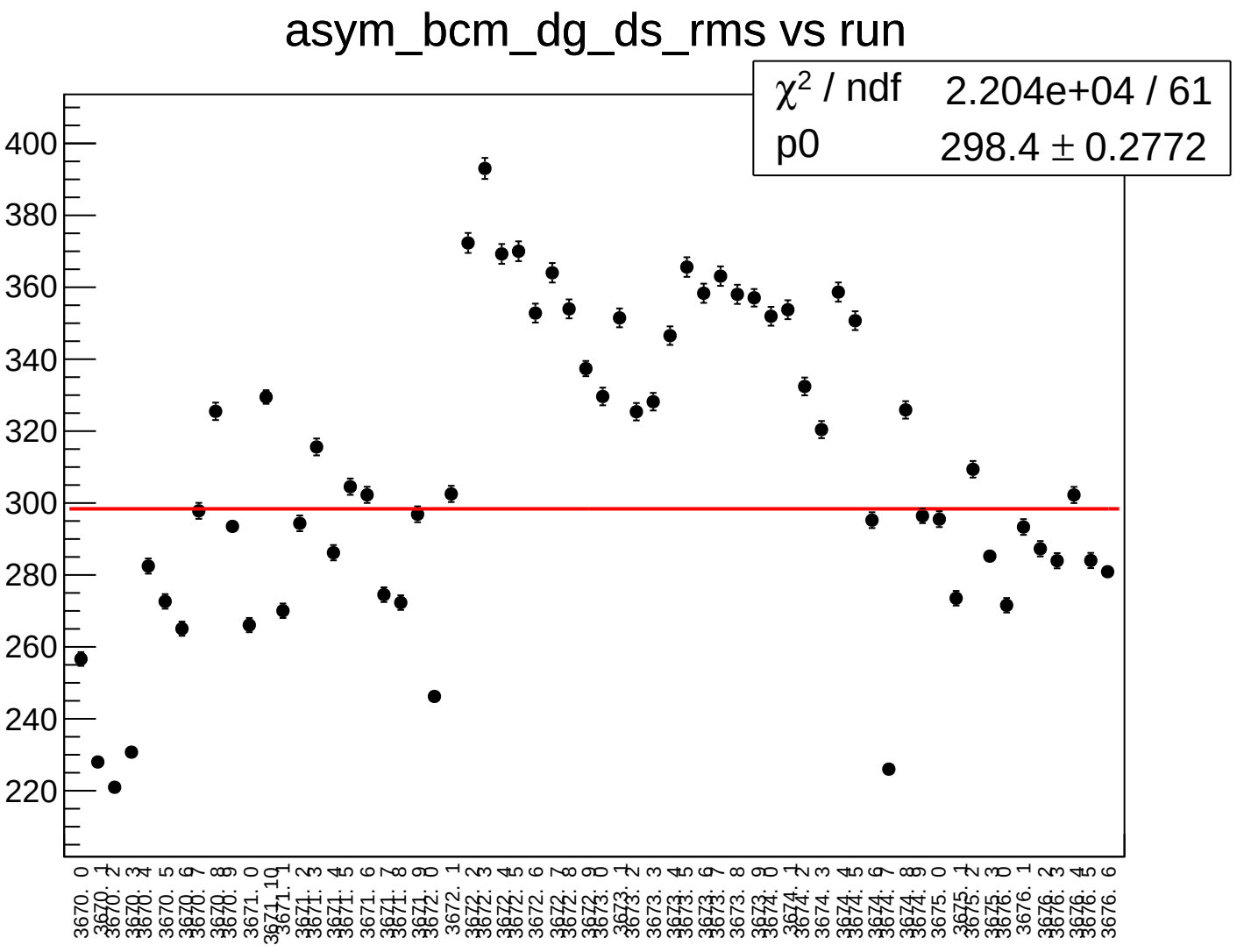

asym_bcm_dg_us_mean vs run
χ² / ndf 3.798 / 61
p0 6.178 ± 361.1
pull
Entries 62
Mean −41.13
Std Dev 77.05

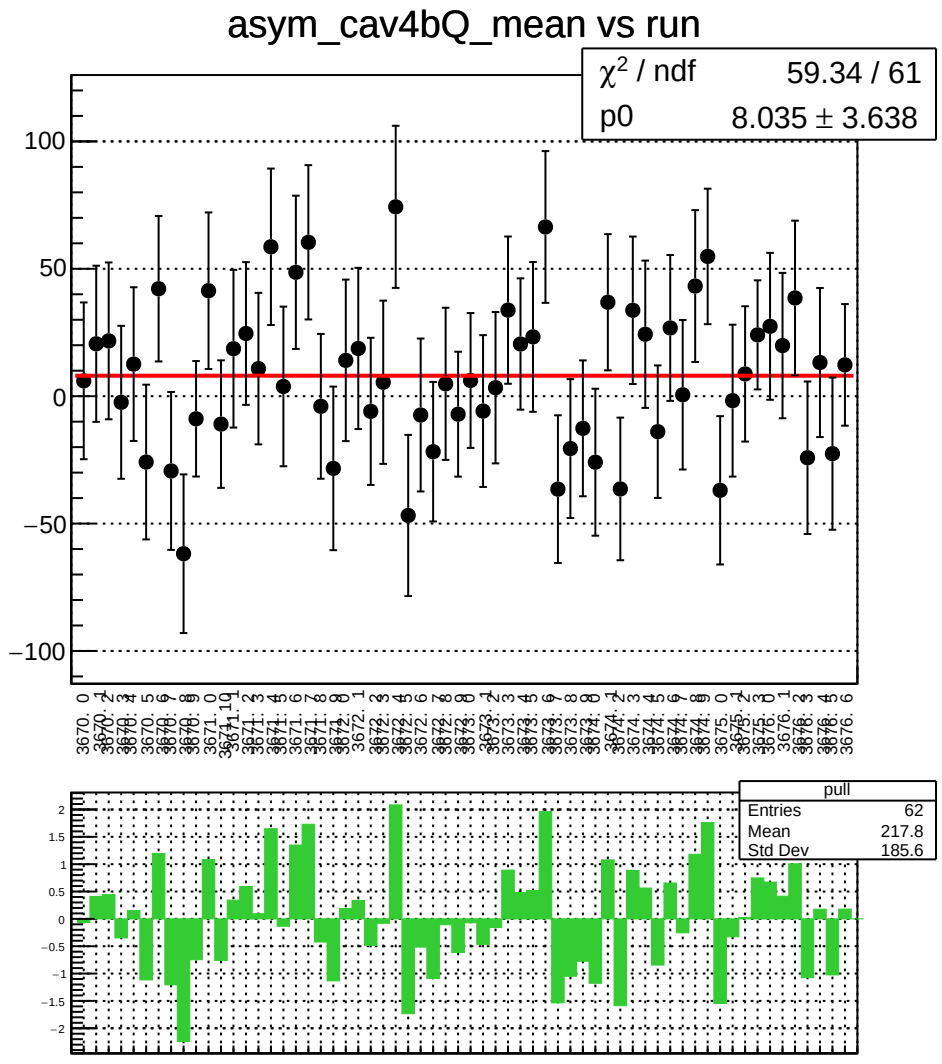

pull1D
Entries 62
Mean −0.006244
Std Dev 0.2474

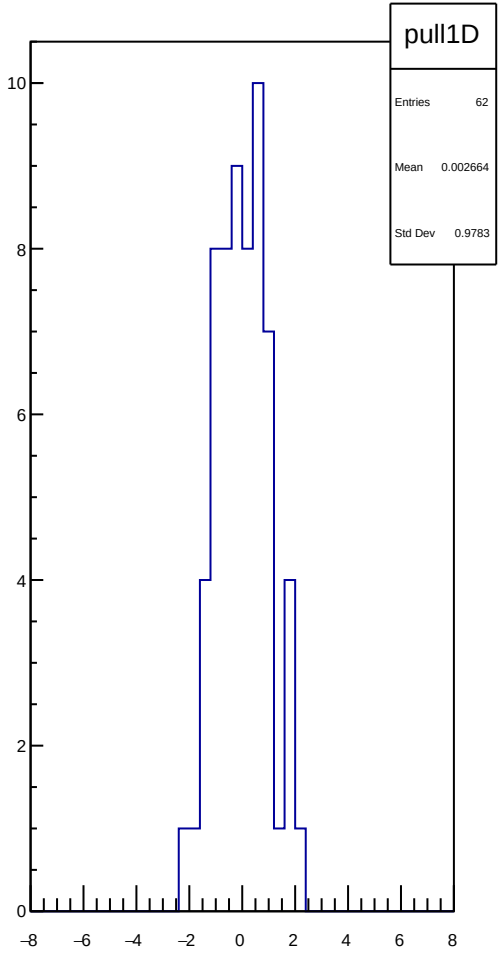

asym_bcm_dg_us_rms vs run
χ² / ndf 1.963e+04 / 61
p0 275.2 ± 0.2554
360
340
320
300
280
260
240
220
200

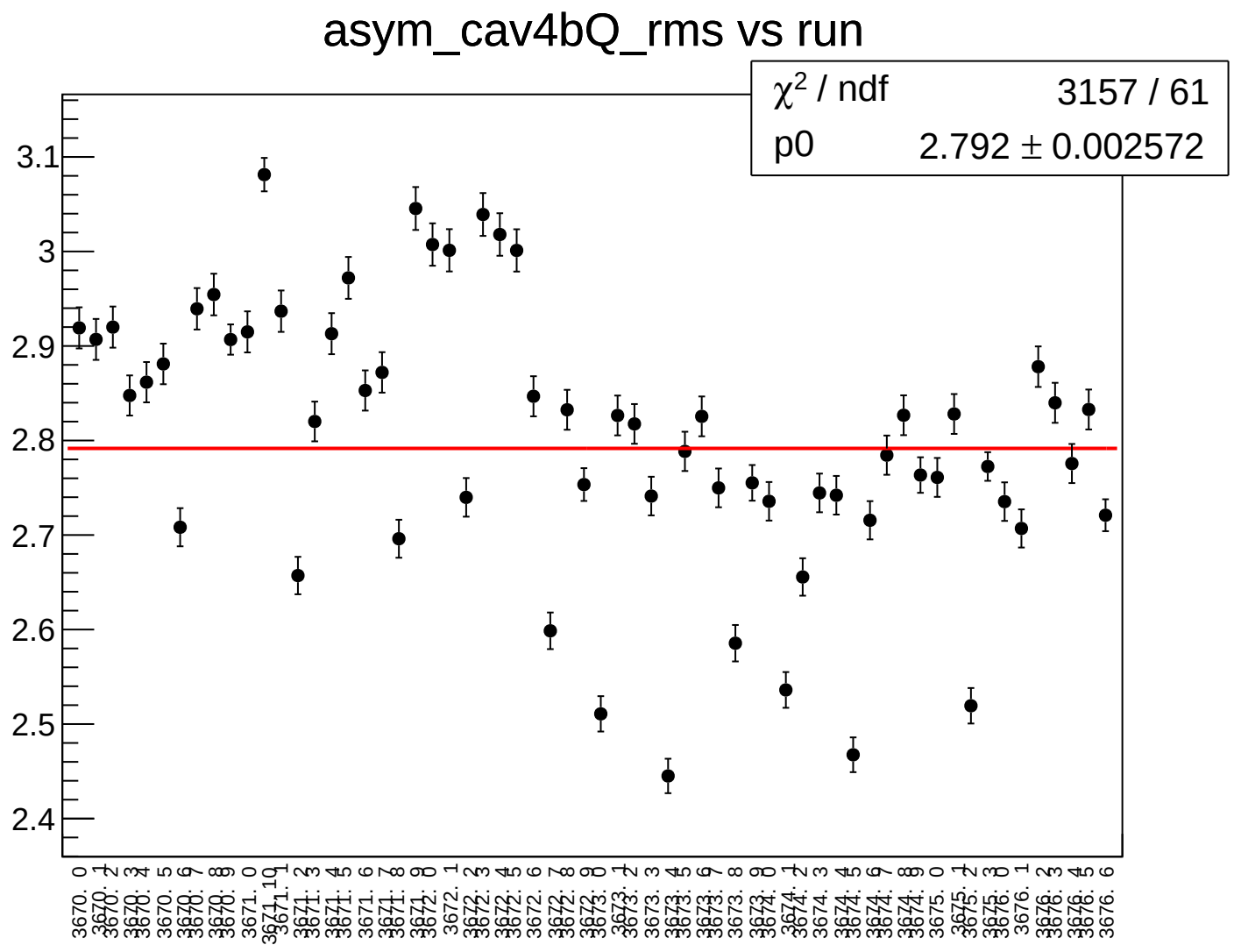

asym_bcm_dg_ds_mean vs run
χ² / ndf 3.415 / 61
p0 56.68 ± 392
pull
Entries 62
Mean −5.387
Std Dev 44.74

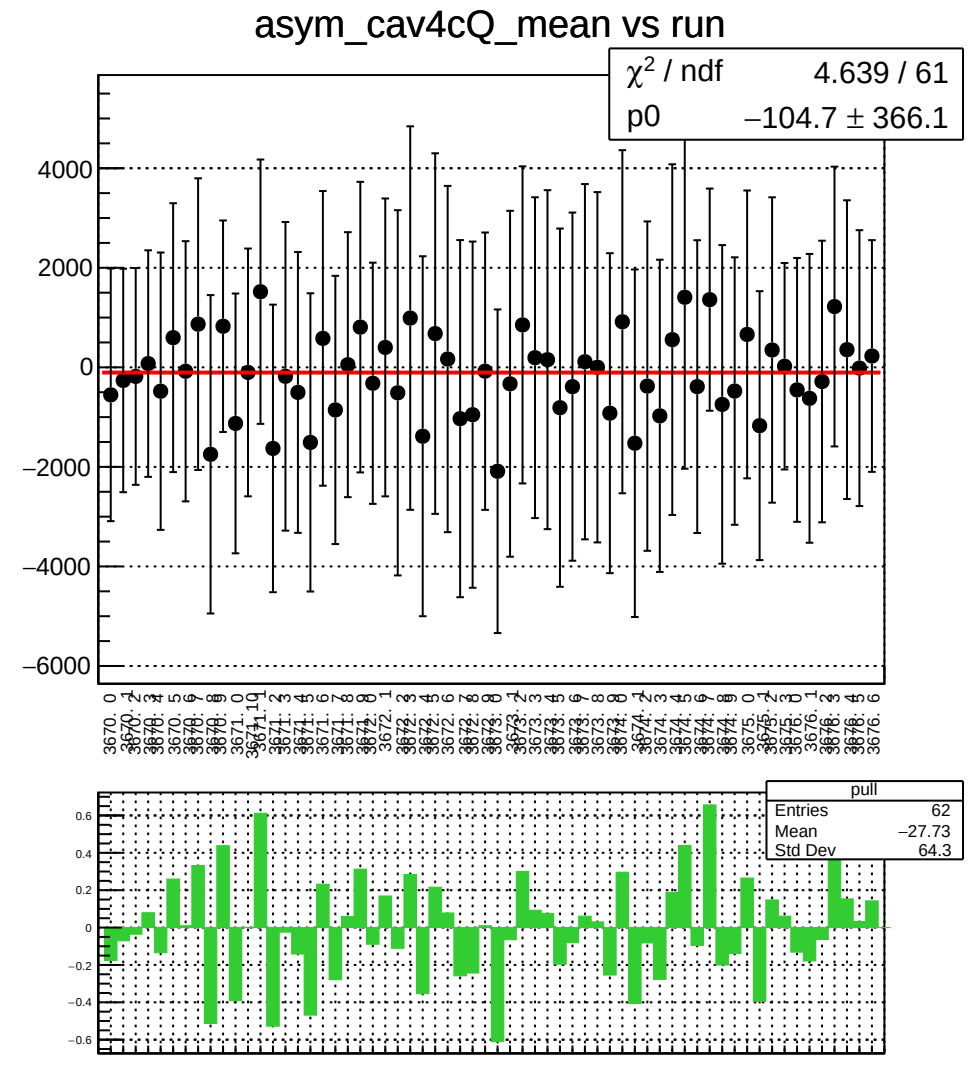

pull1D
Entries 62
Mean −0.009342
Std Dev 0.2345

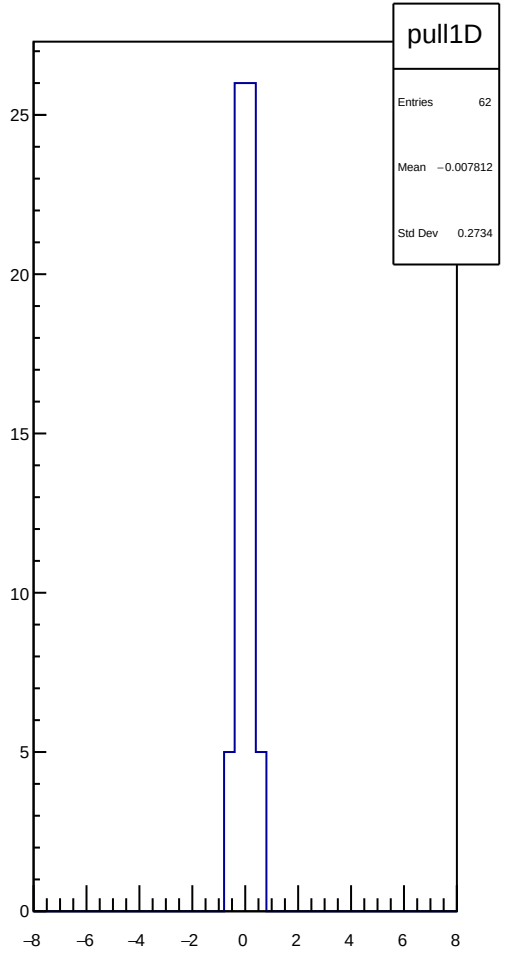

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.204e+04 / 61
p0 298.4 ± 0.2772
400
380
360
340
320
300
280
260
240
220
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

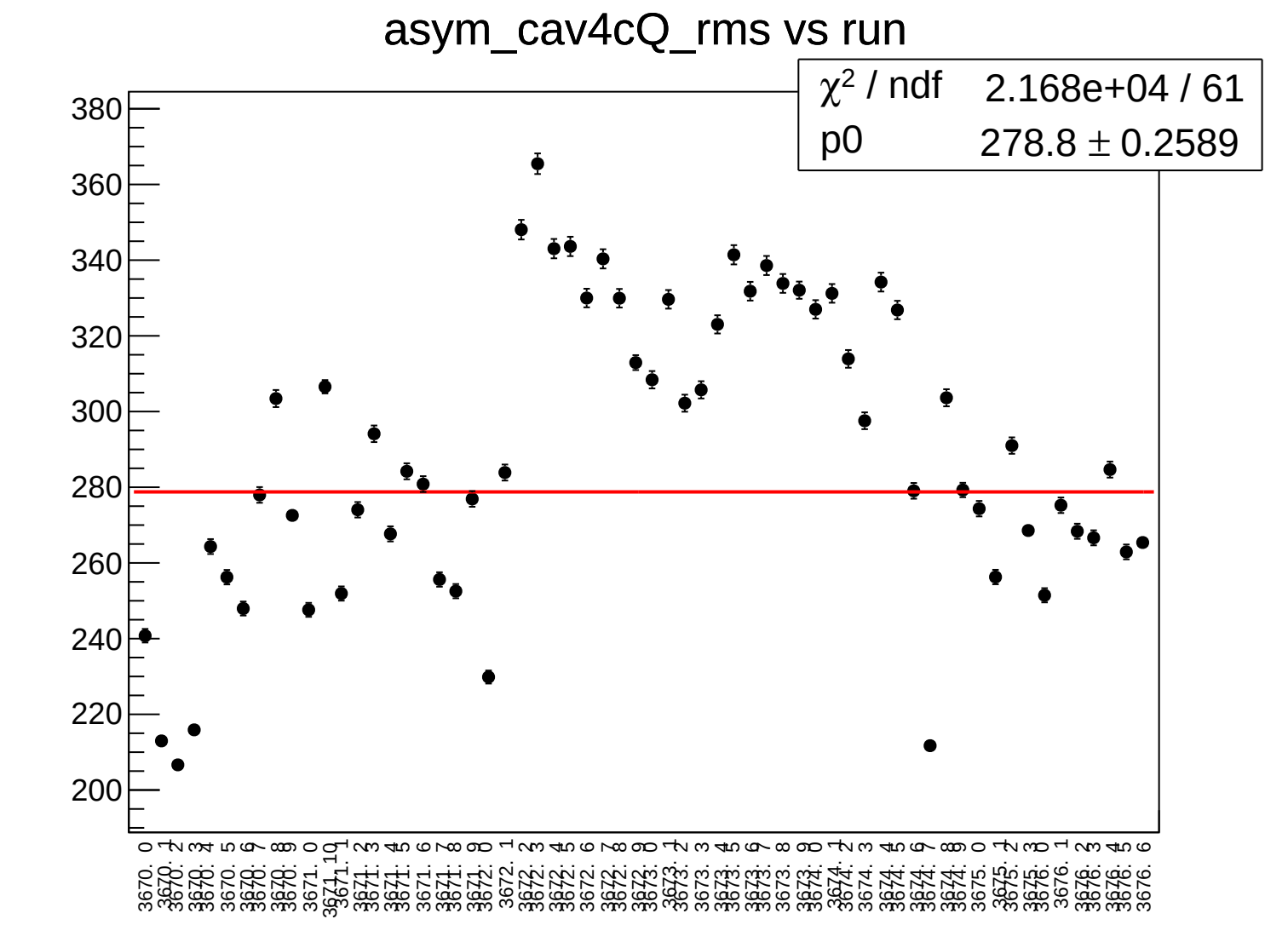

asym_cav4bQ_mean vs run
χ^2 / ndf 59.34 / 61
p0 8.035 ± 3.638
pull
Entries 62
Mean 217.8
Std Dev 185.6

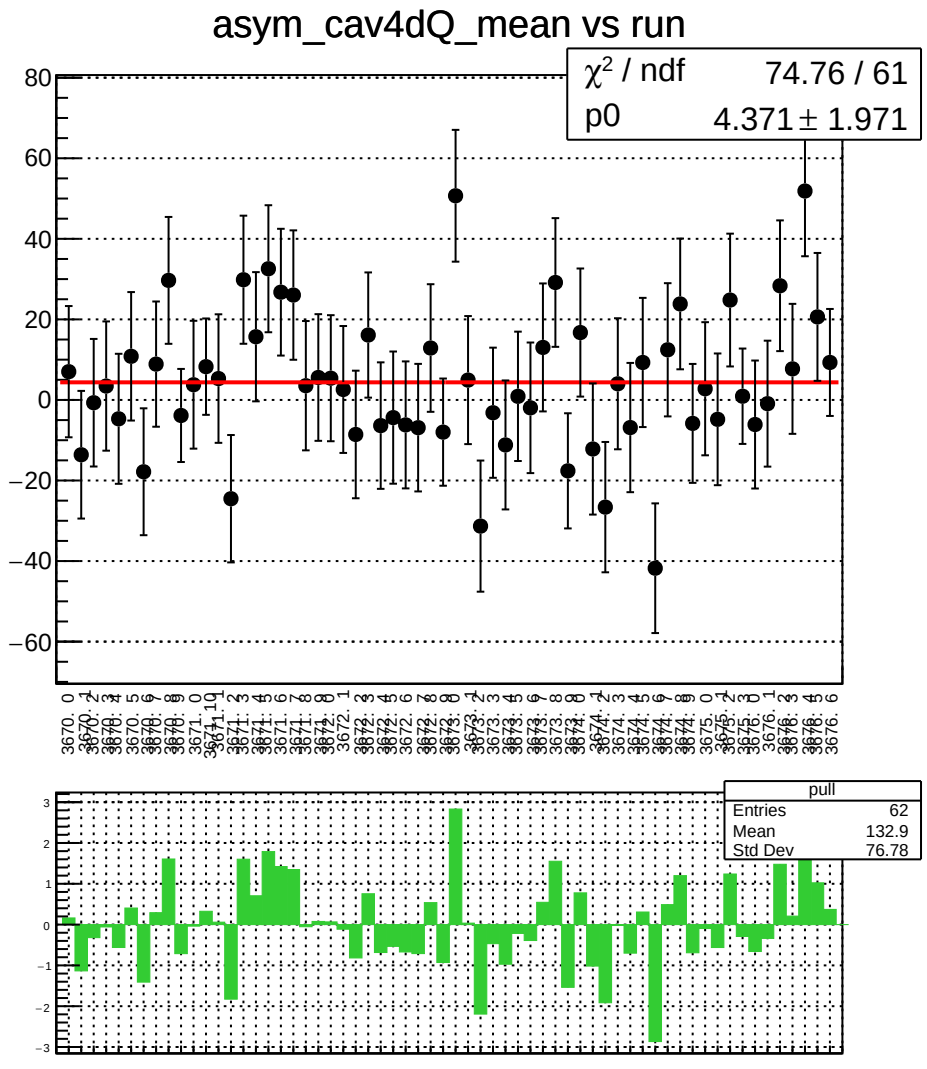

pull1D
Entries 62
Mean 0.002664
Std Dev 0.9783

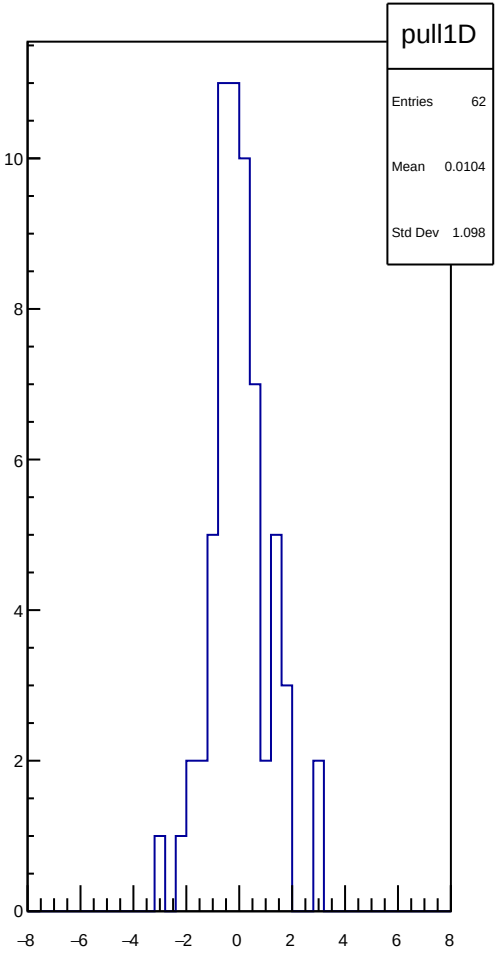

asym_cav4bQ_rms vs run
χ² / ndf 3157 / 61
p0 2.792 ± 0.002572
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

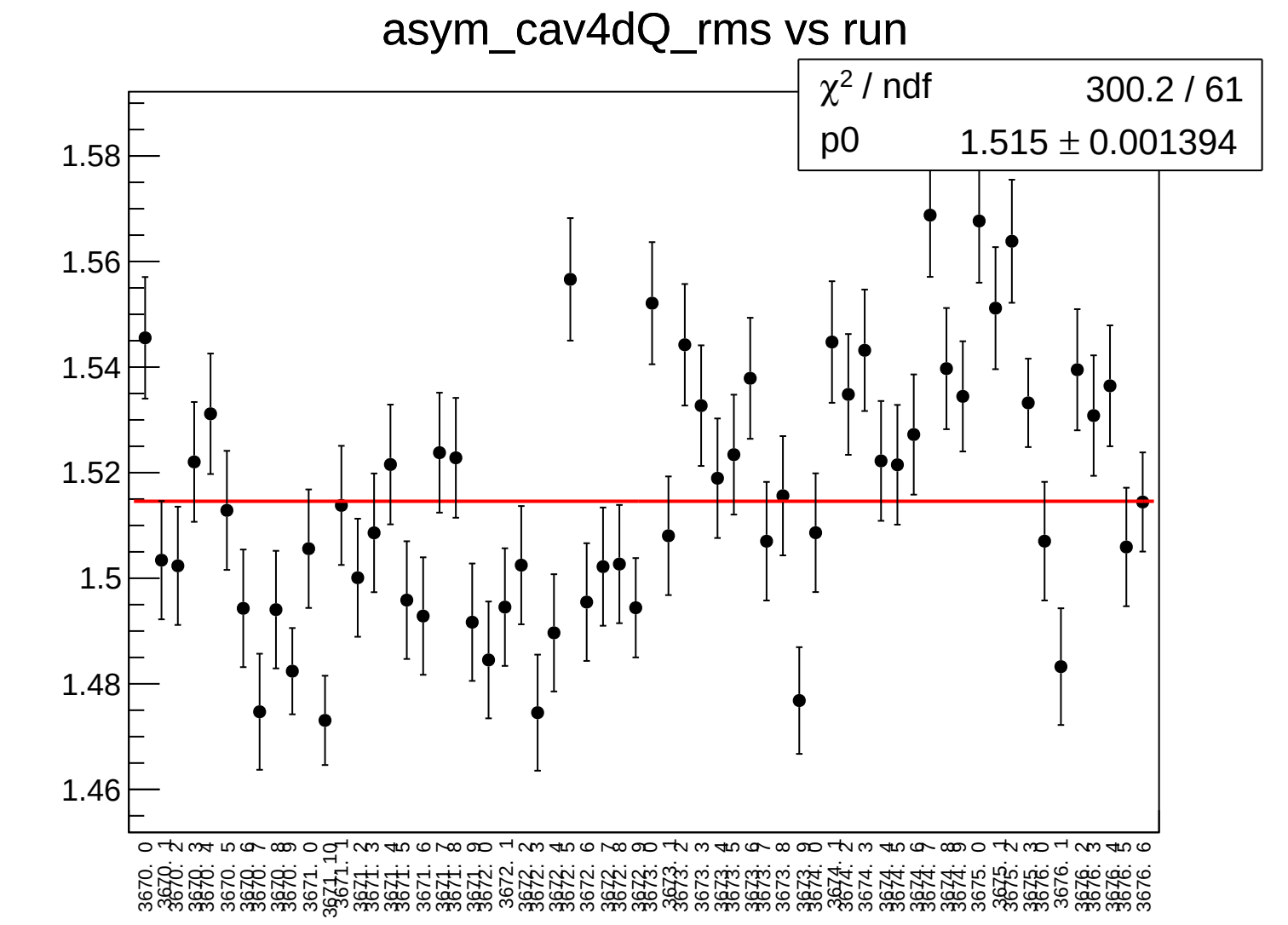

asym_cav4cQ_mean vs run
χ² / ndf 4.639 / 61
p0 −104.7 ± 366.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 62
Mean −27.73
Std Dev 64.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

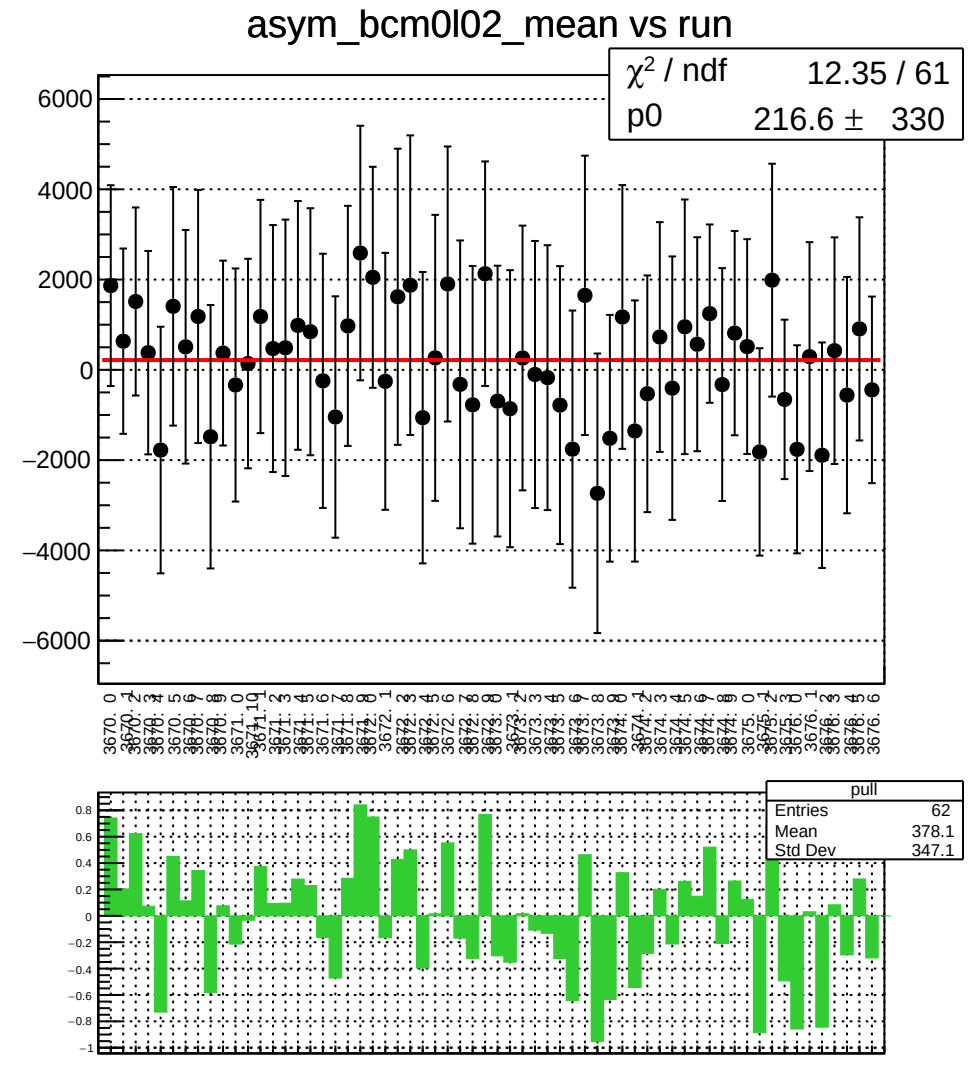

pull1D
Entries 62
Mean −0.007812
Std Dev 0.2734
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

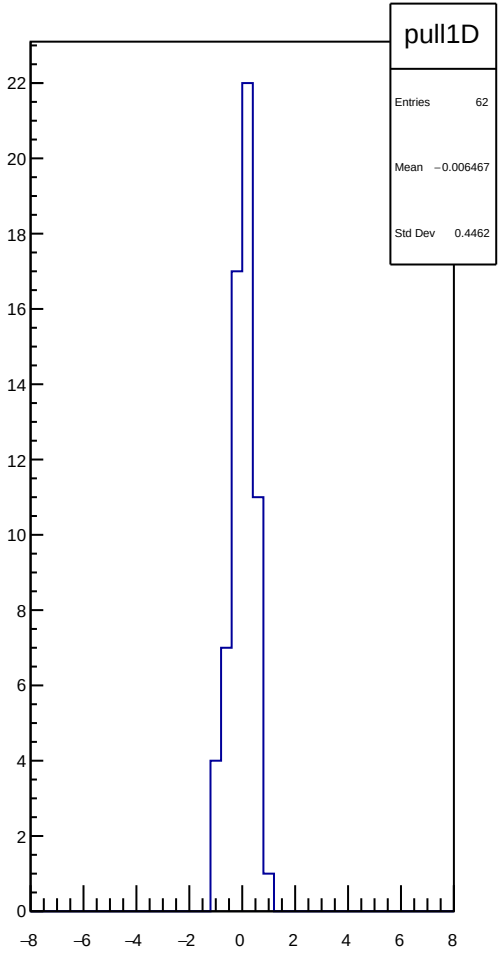

asym_cav4cQ_rms vs run
χ² / ndf 2.168e+04 / 61
p0 278.8 ± 0.2589
380
360
340
320
300
280
260
240
220
200
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

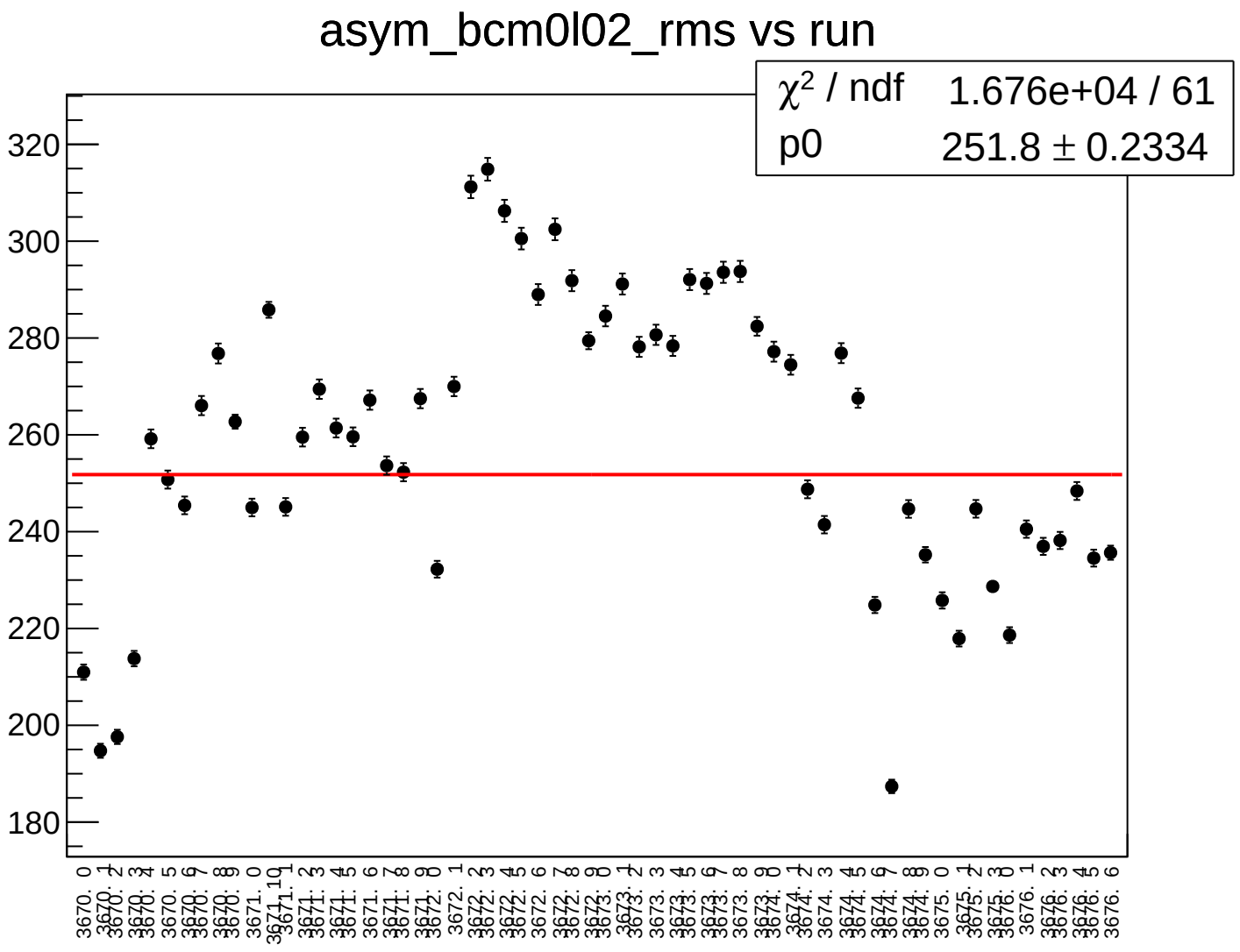

asym_cav4dQ_mean vs run
χ² / ndf 74.76 / 61
p0 4.371 ± 1.971
pull
Entries 62
Mean 132.9
Std Dev 76.78

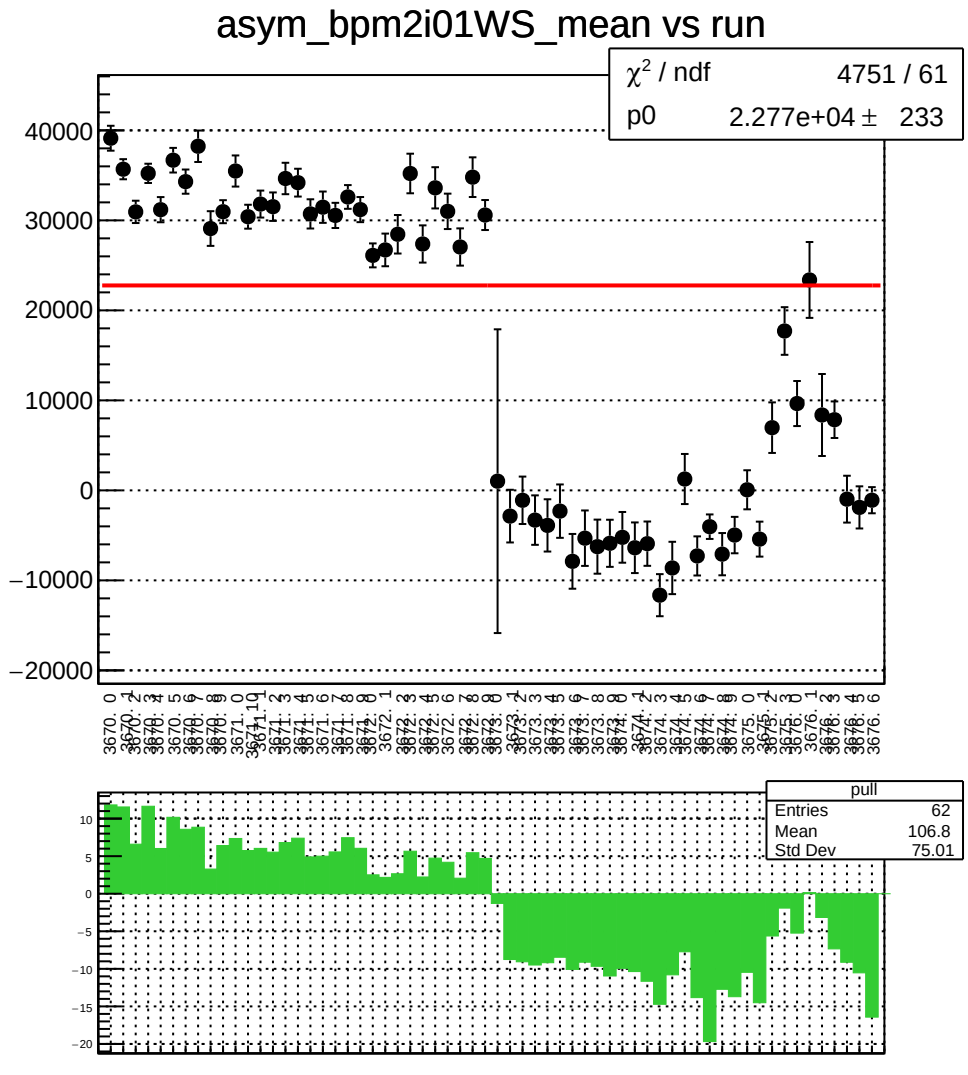

pull1D
Entries 62
Mean 0.0104
Std Dev 1.098

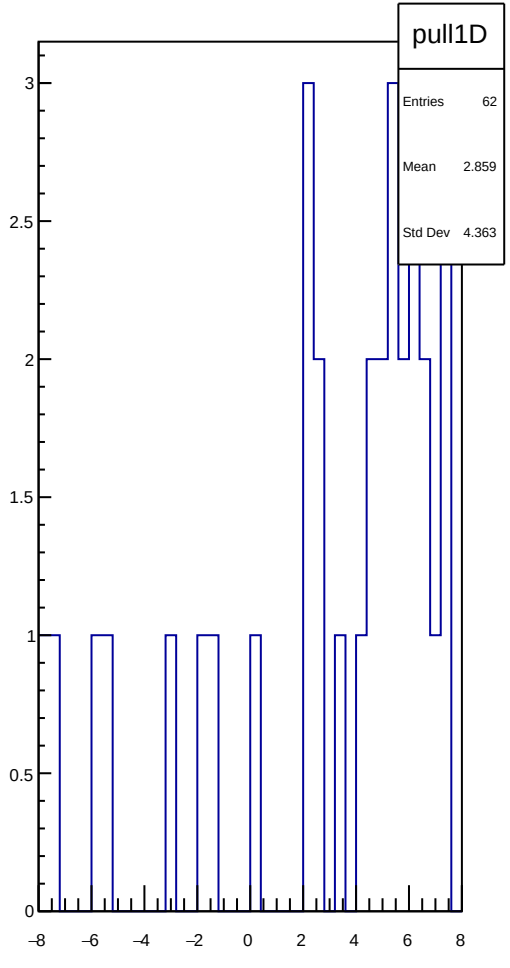

asym_cav4dQ_rms vs run
χ^2 / ndf 300.2 / 61
p0 1.515 ± 0.001394
1.58
1.56
1.54
1.52
1.5
1.48
1.46

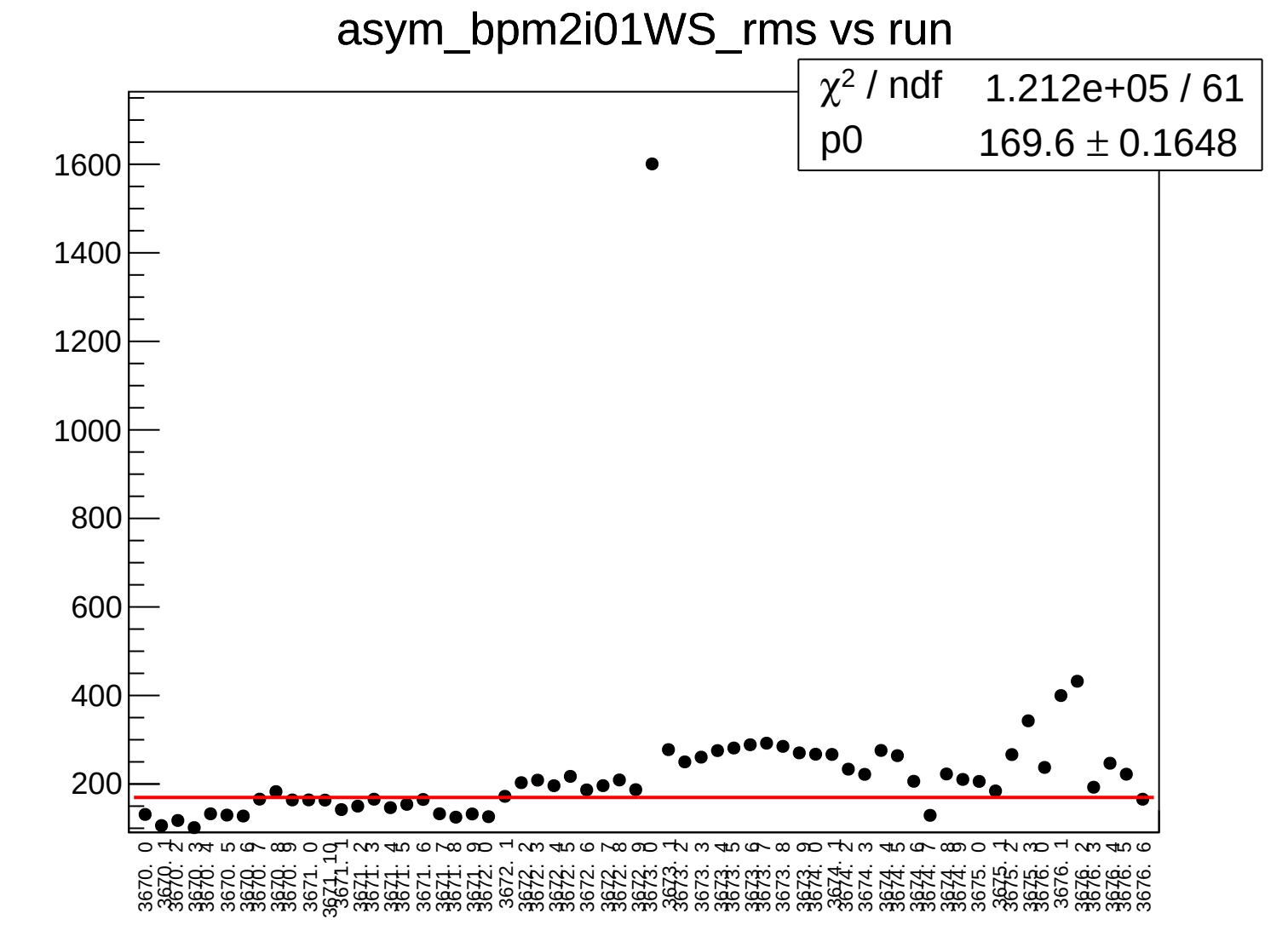

asym_bcm0l02_mean vs run
χ² / ndf 12.35 / 61
p0 216.6 ± 330
pull
Entries 62
Mean 378.1
Std Dev 347.1

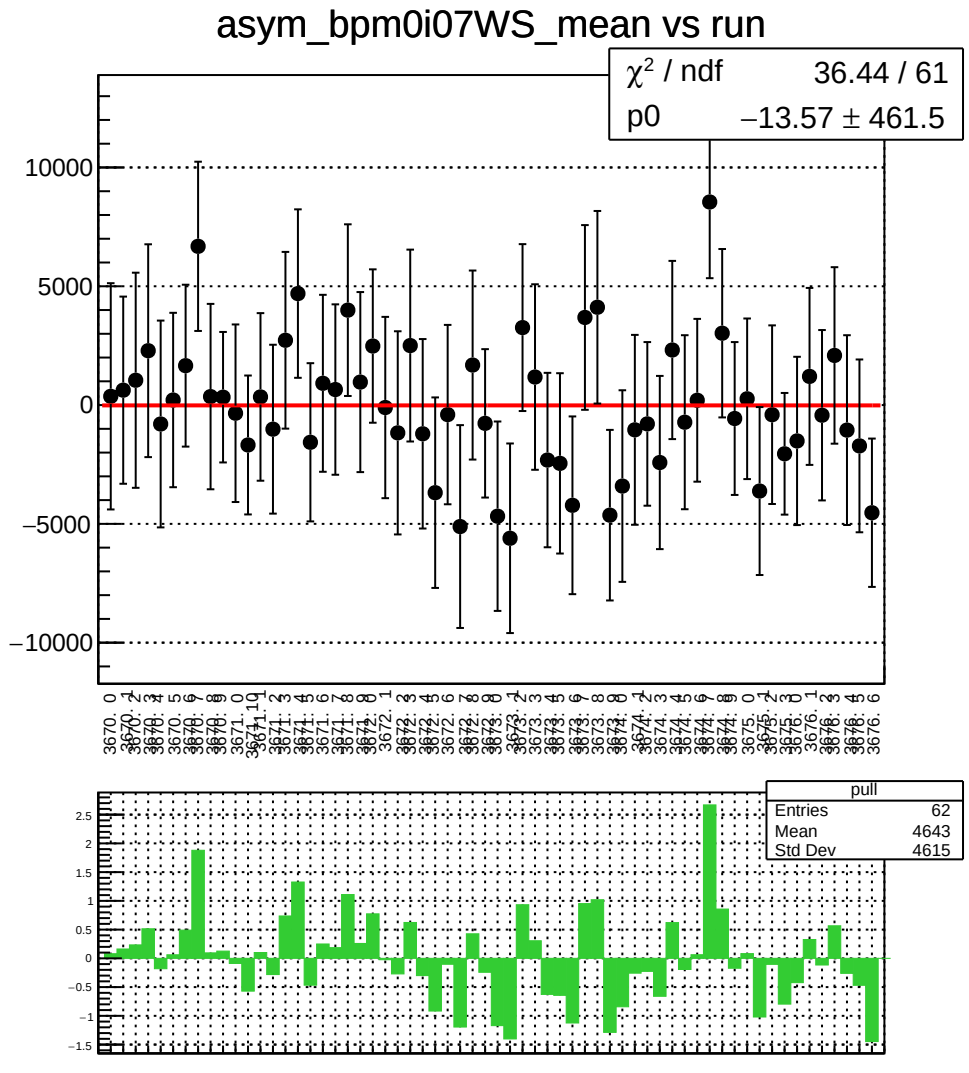

pull1D
Entries 62
Mean −0.006467
Std Dev 0.4462

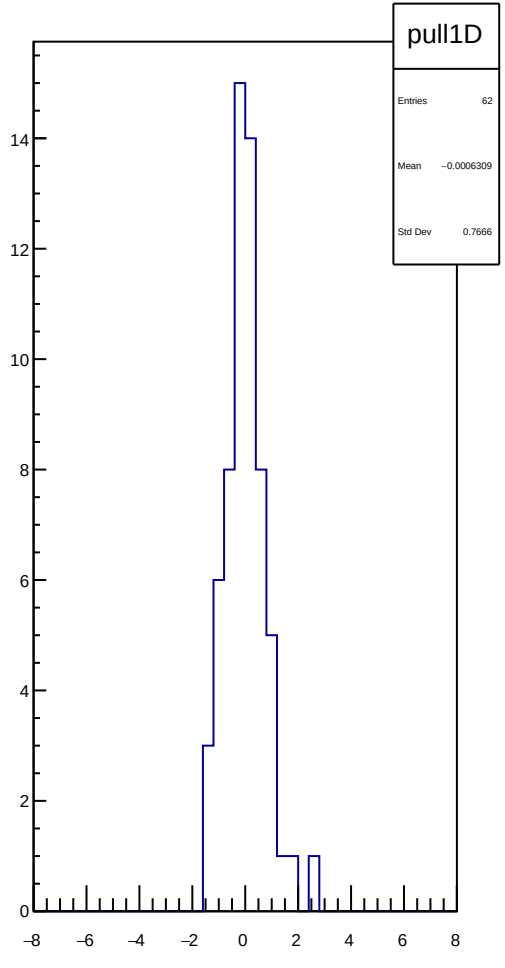

asym_bcm0l02_rms vs run
χ² / ndf 1.676e+04 / 61
p0 251.8 ± 0.2334
320
300
280
260
240
220
200
180
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 10
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

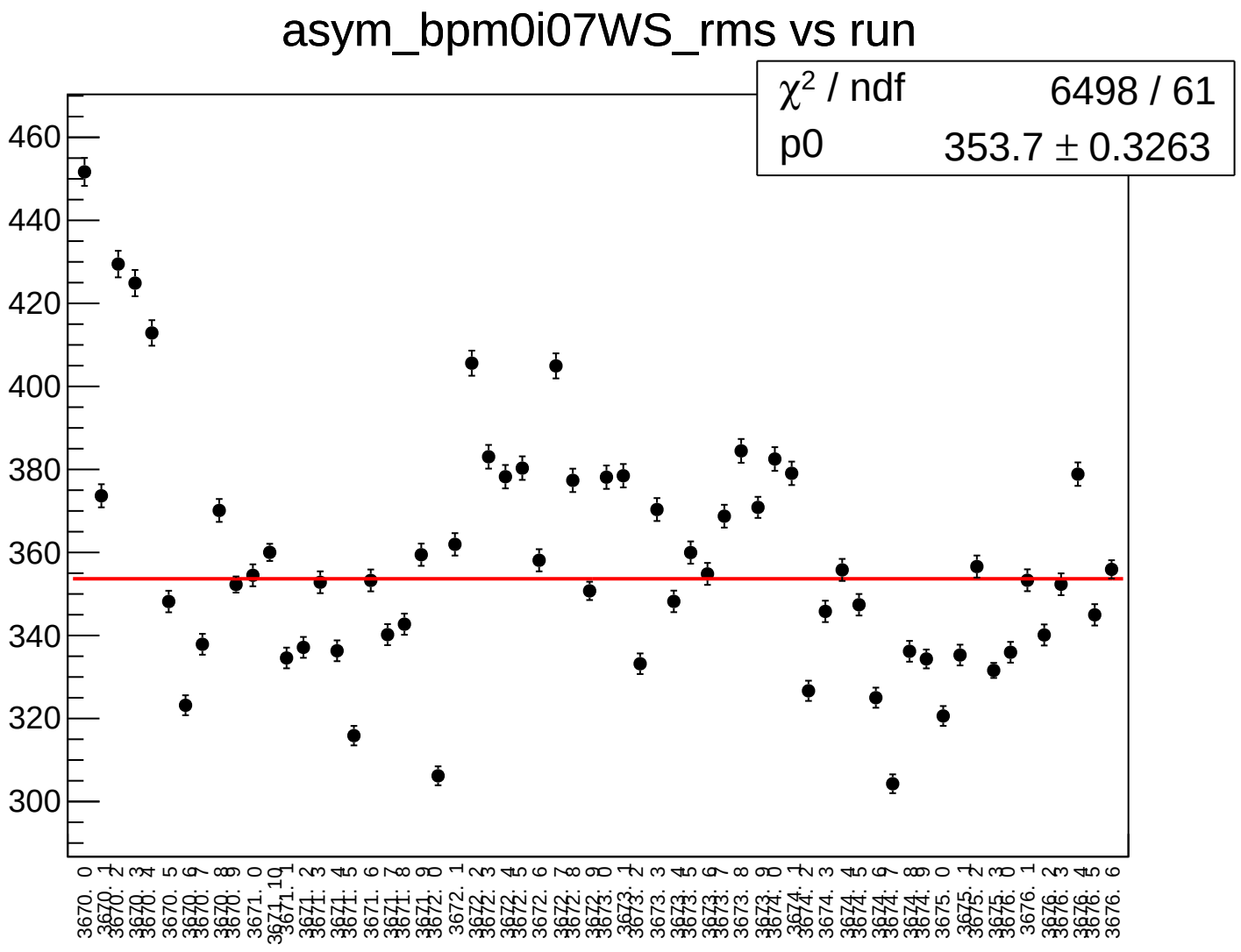

asym_bpm2i01WS_mean vs run
χ² / ndf 4751 / 61
p0 2.277e+04 ± 233
pull
Entries 62
Mean 106.8
Std Dev 75.01

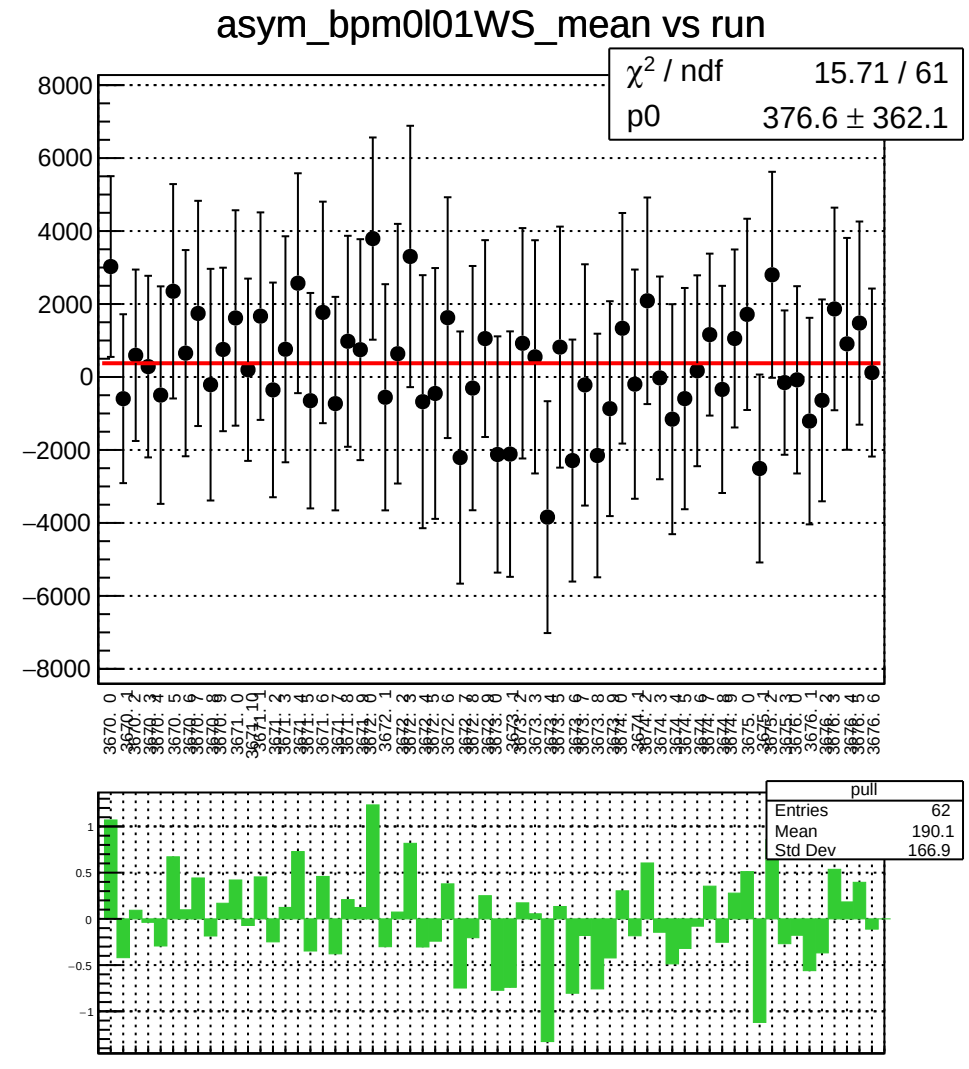

pull1D
Entries 62
Mean 2.859
Std Dev 4.363

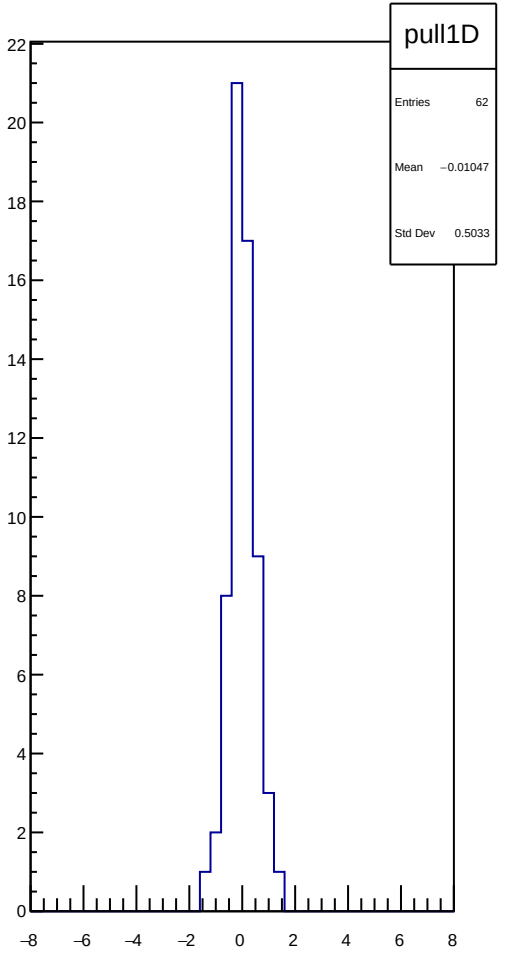

asym_bpm2i01WS_rms vs run
χ² / ndf 1.212e+05 / 61
p0 169.6 ± 0.1648
1600
1400
1200
1000
800
600
400
200
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

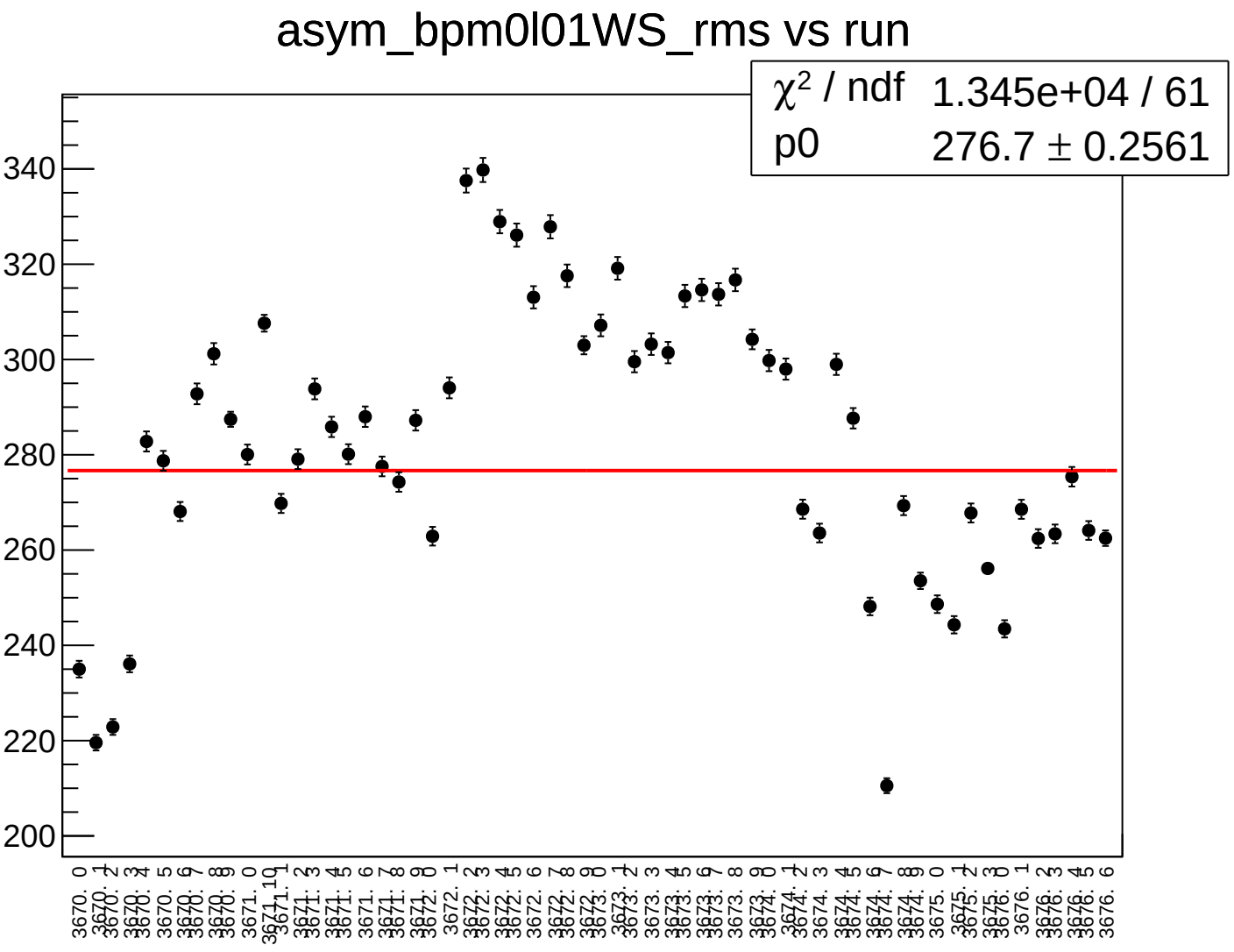

asym_bpm0i07WS_mean vs run
χ² / ndf 36.44 / 61
p0 −13.57 ± 461.5
10000
5000
0
−5000
−10000
pull
Entries 62
Mean 4643
Std Dev 4615
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

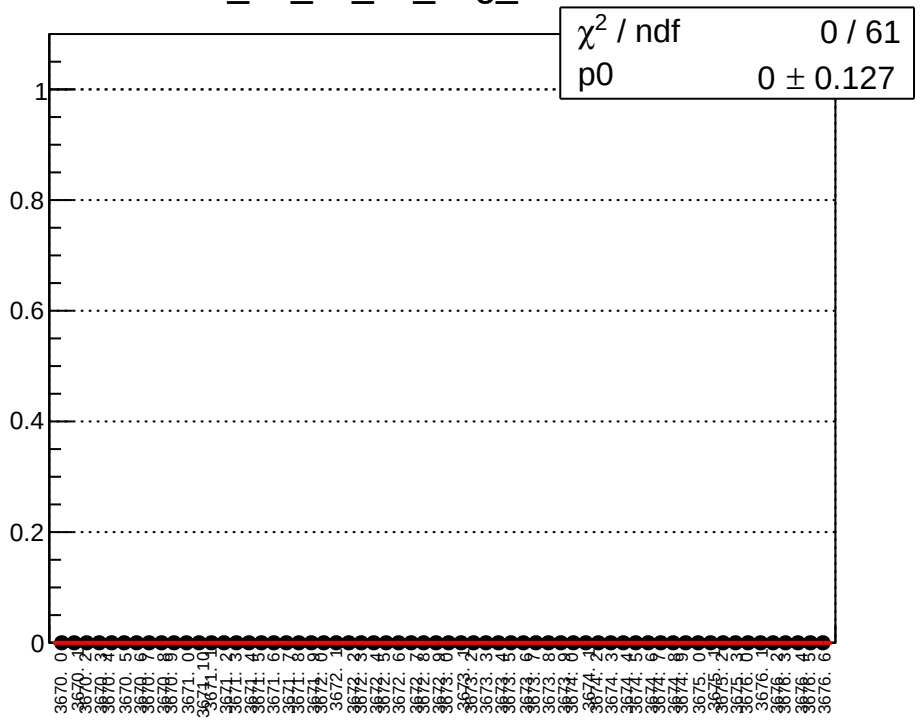

pull1D
Entries 62
Mean −0.0006309
Std Dev 0.7666
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

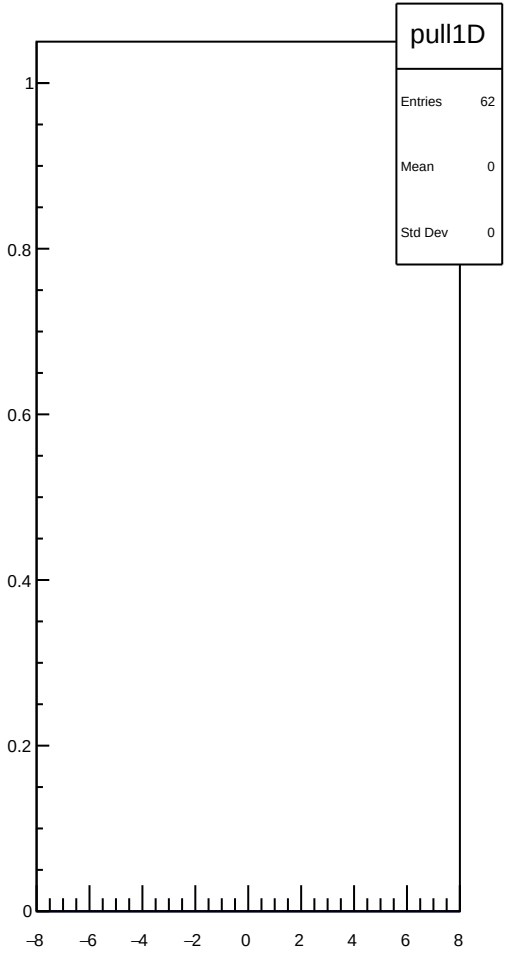

asym_bpm0i07WS_rms vs run
χ^2 / ndf 6498 / 61
p0 353.7 ± 0.3263
460
440
420
400
380
360
340
320
300
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

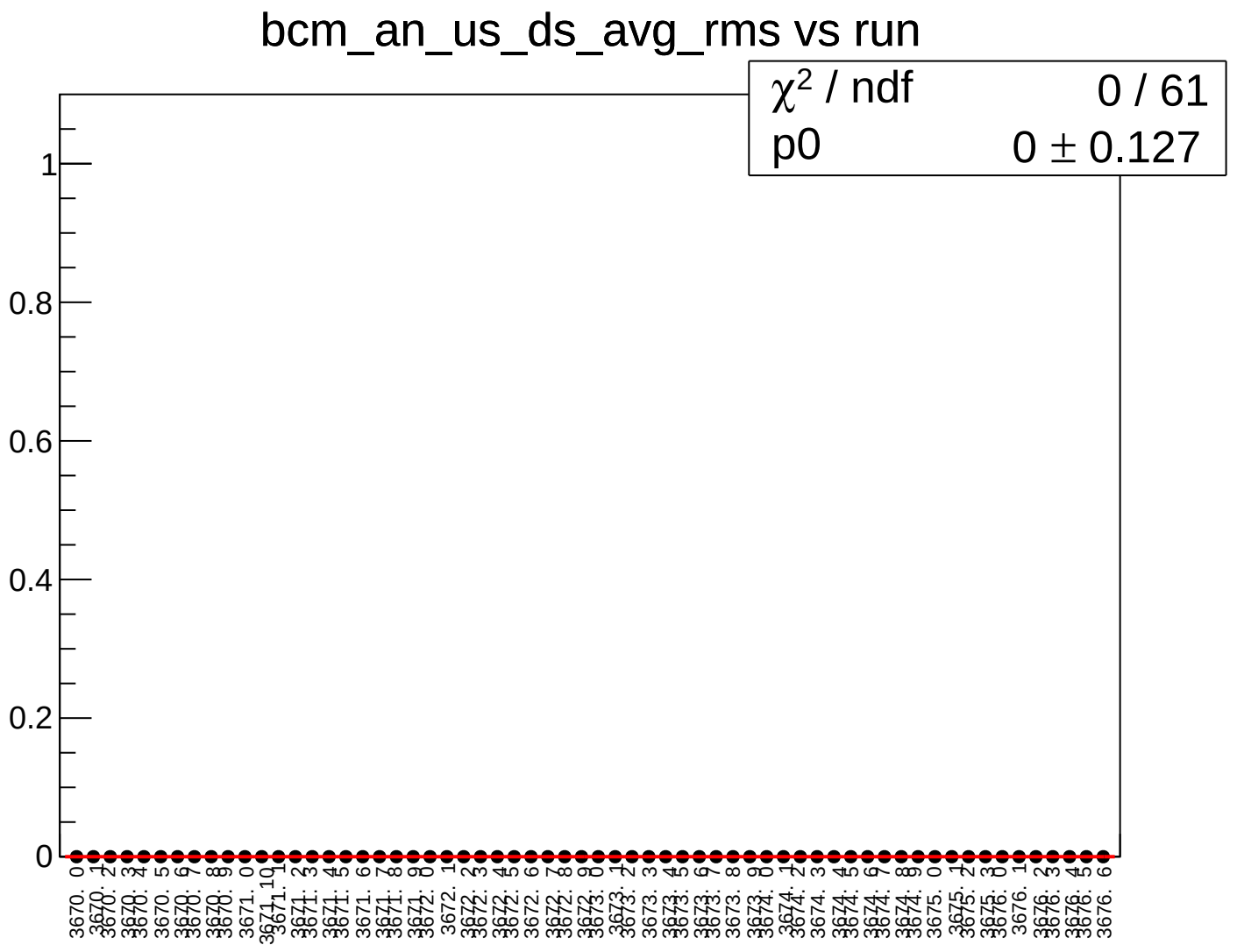

asym_bpm0l01WS_mean vs run
χ² / ndf 15.71 / 61
p0 376.6 ± 362.1
pull
Entries 62
Mean 190.1
Std Dev 166.9

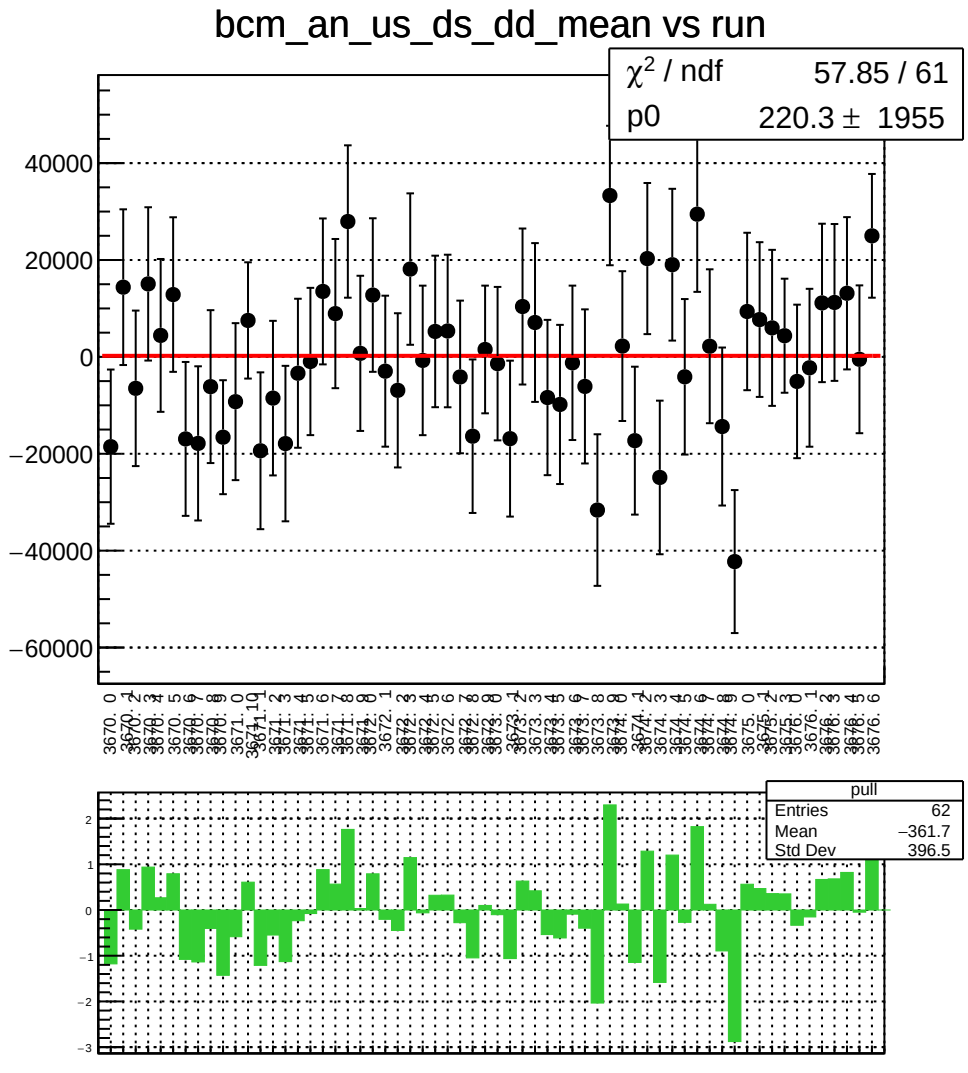

pull1D
Entries 62
Mean −0.01047
Std Dev 0.5033

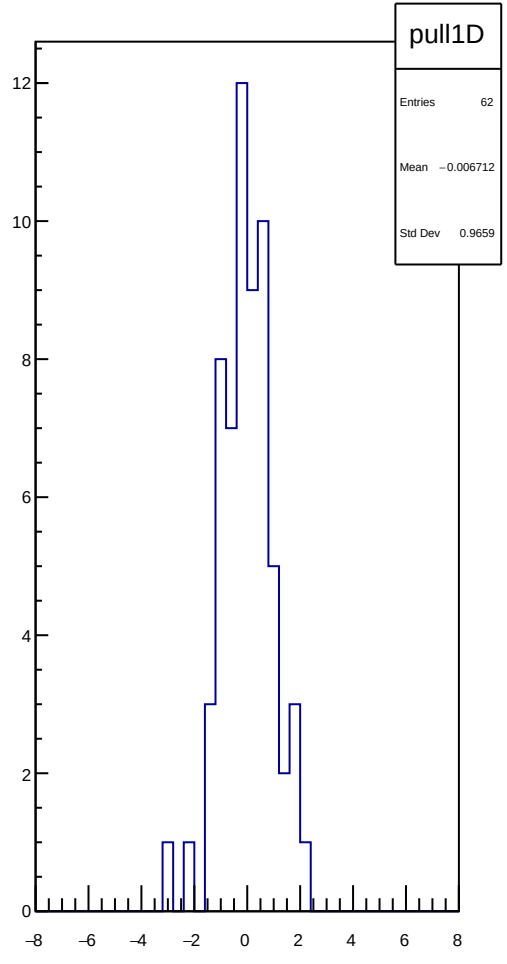

asym_bpm0l01WS_rms vs run
χ² / ndf 1.345e+04 / 61
p0 276.7 ± 0.2561
340
320
300
280
260
240
220
200

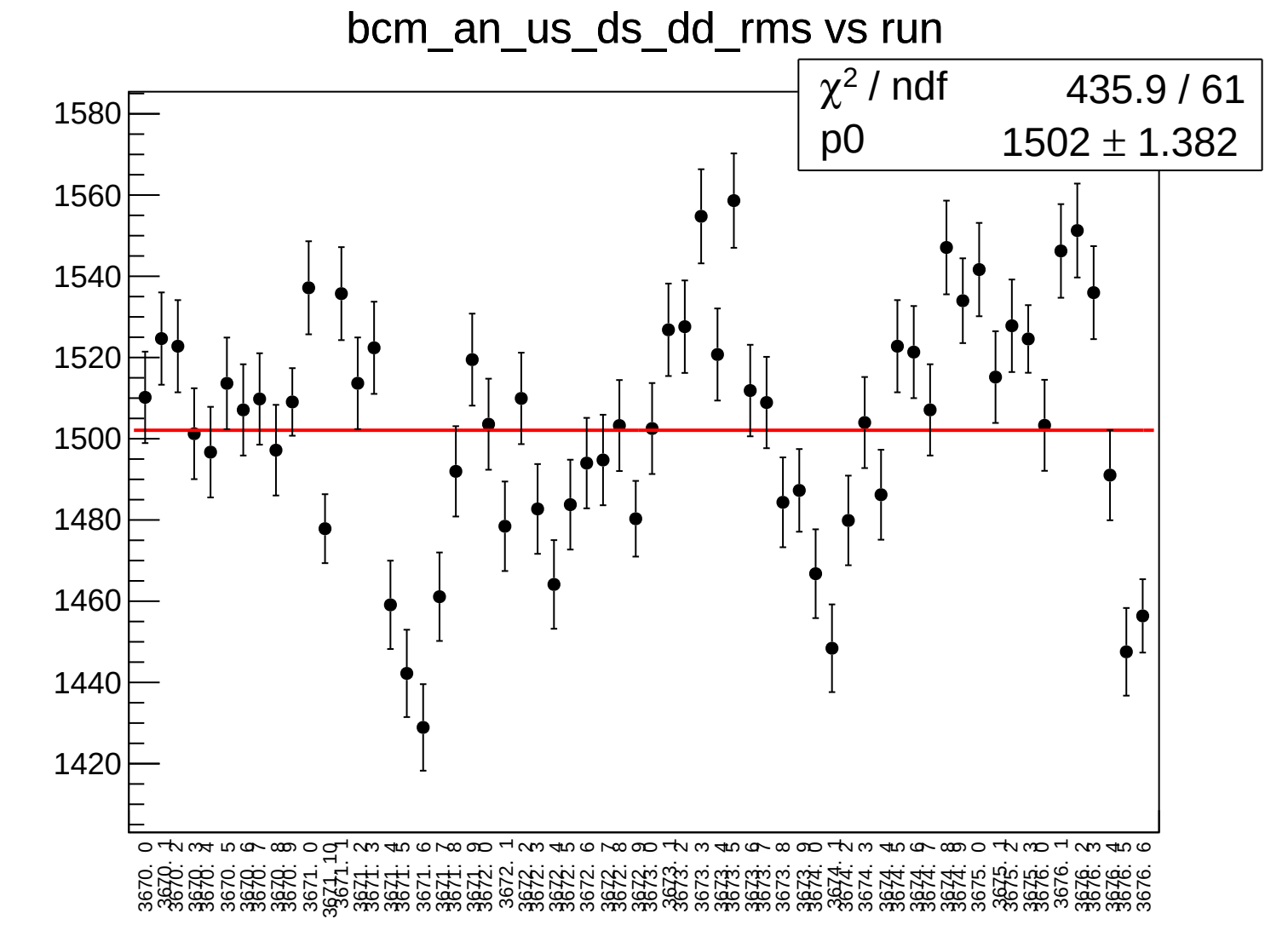

bcm_an_us_ds_avg_mean vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

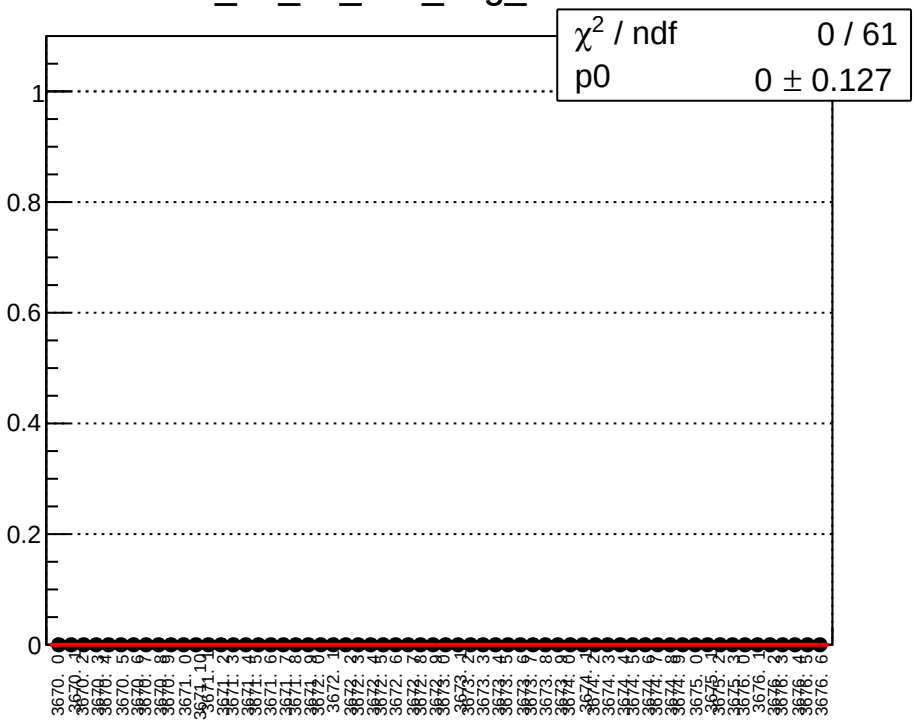

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

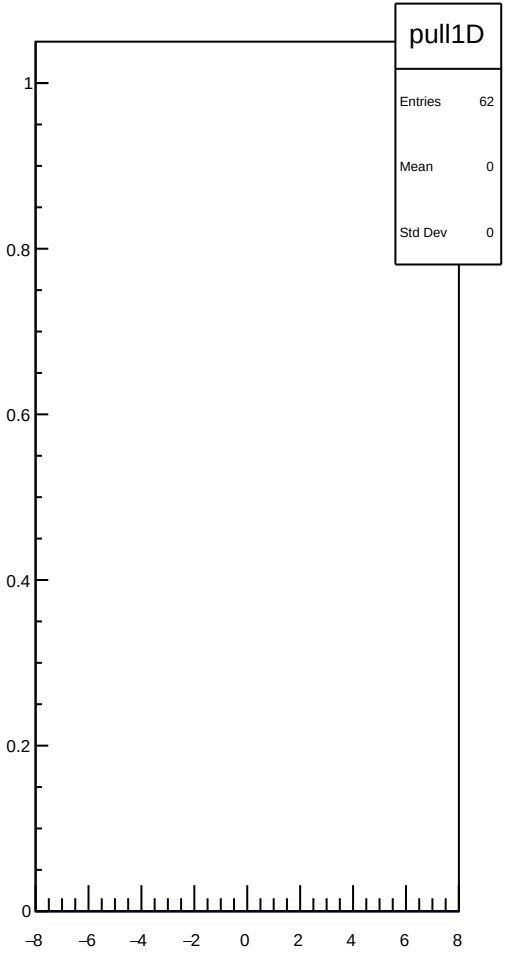

bcm_an_us_ds_avg_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

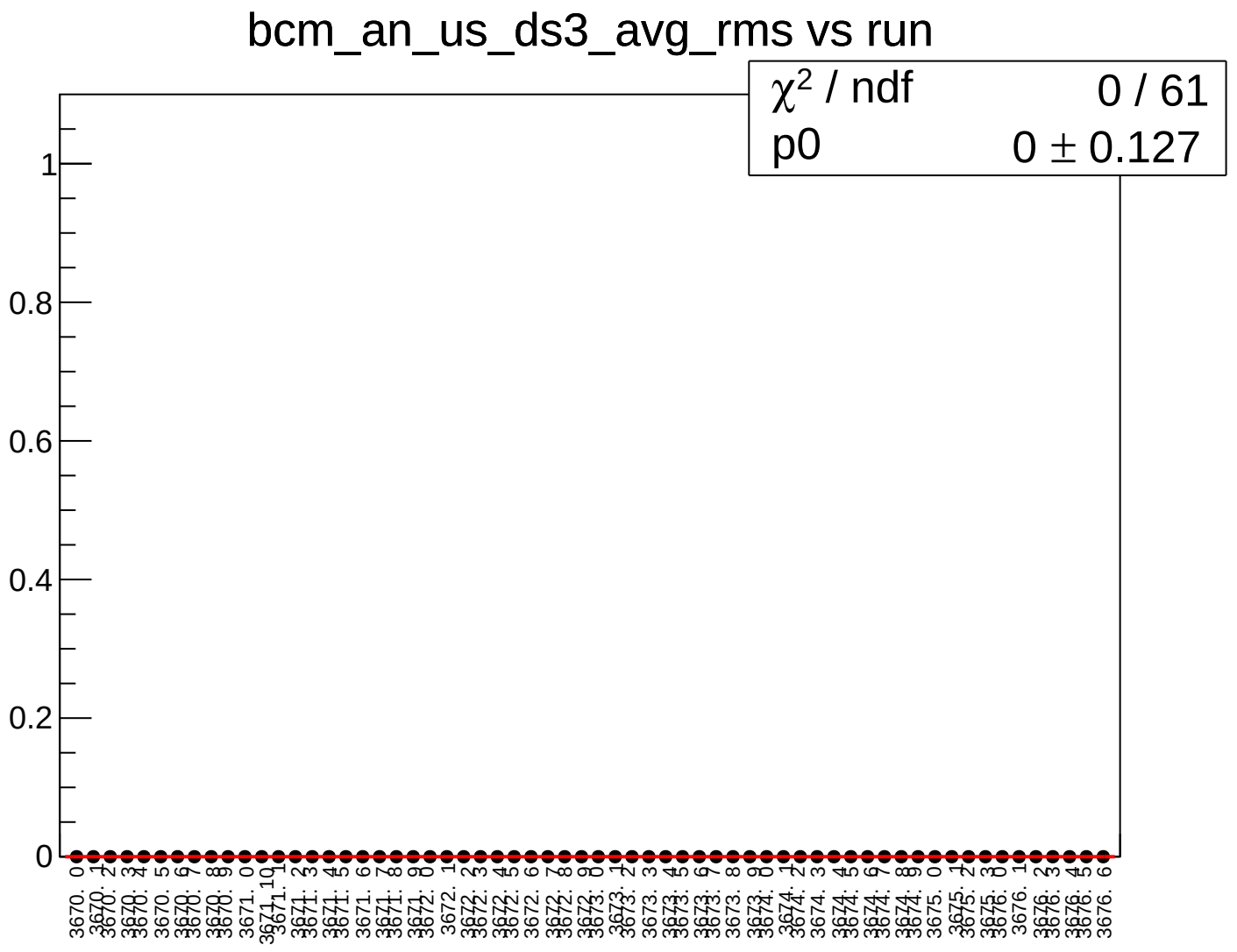

bcm_an_us_ds_dd_mean vs run
χ² / ndf 57.85 / 61
p0 220.3 ± 1955
40000
20000
0
−20000
−40000
−60000
pull
Entries 62
Mean −361.7
Std Dev 396.5
2
1
0
−1
−2
−3

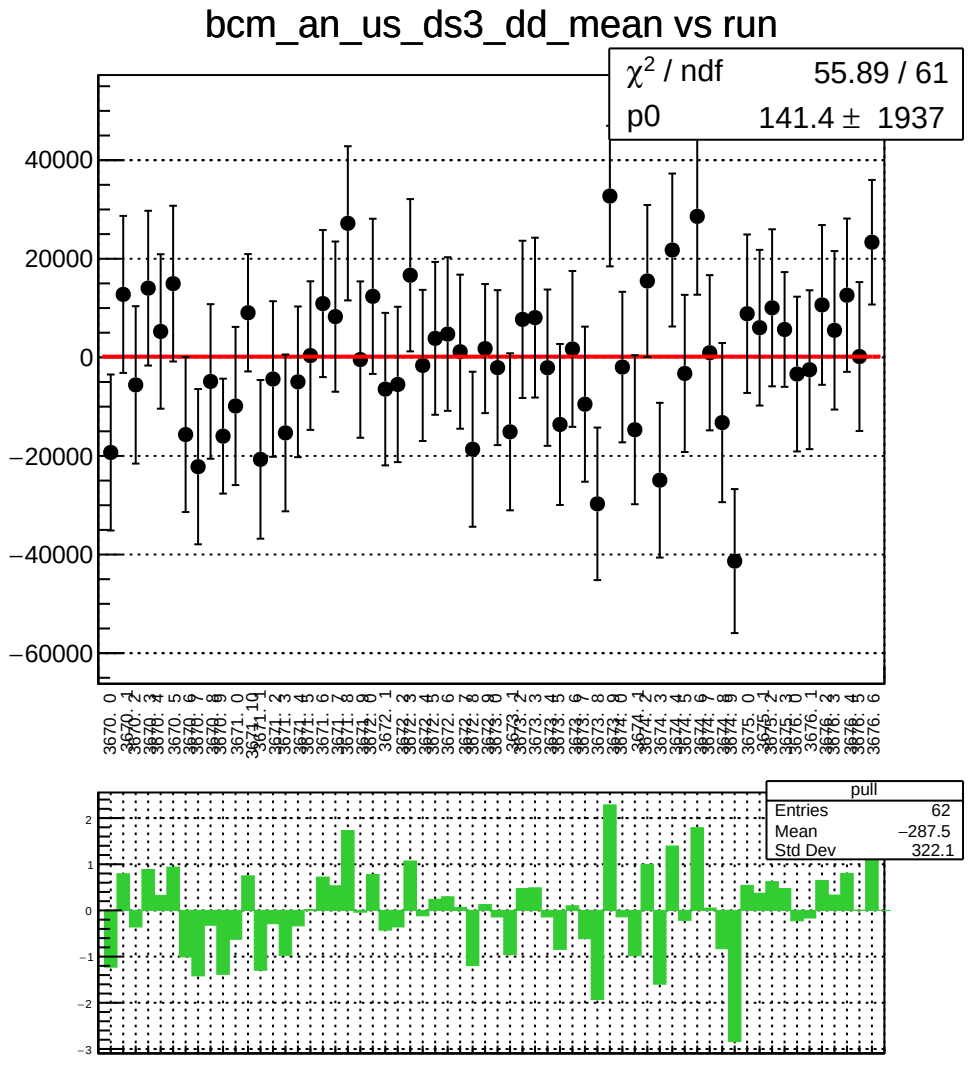

pull1D
Entries 62
Mean −0.006712
Std Dev 0.9659
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

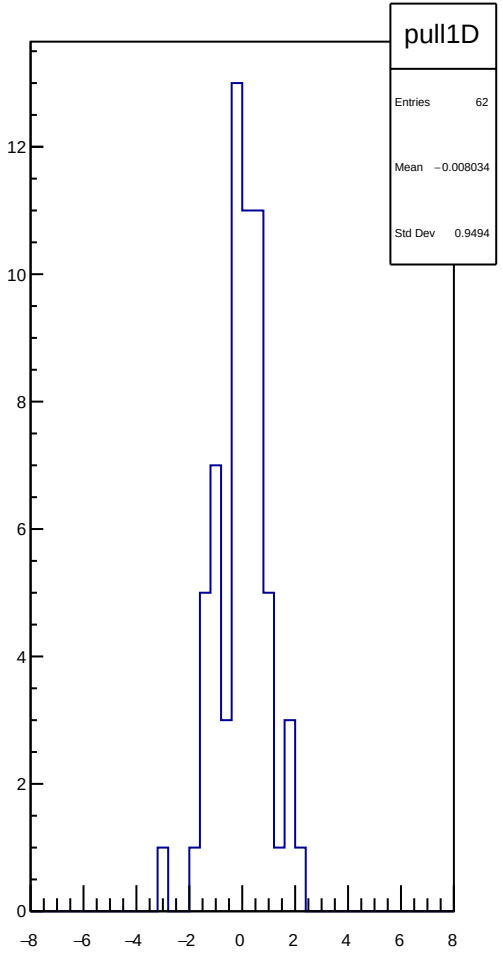

bcm_an_us_ds_dd_rms vs run
χ² / ndf 435.9 / 61
p0 1502 ± 1.382
1580
1560
1540
1520
1500
1480
1460
1440
1420

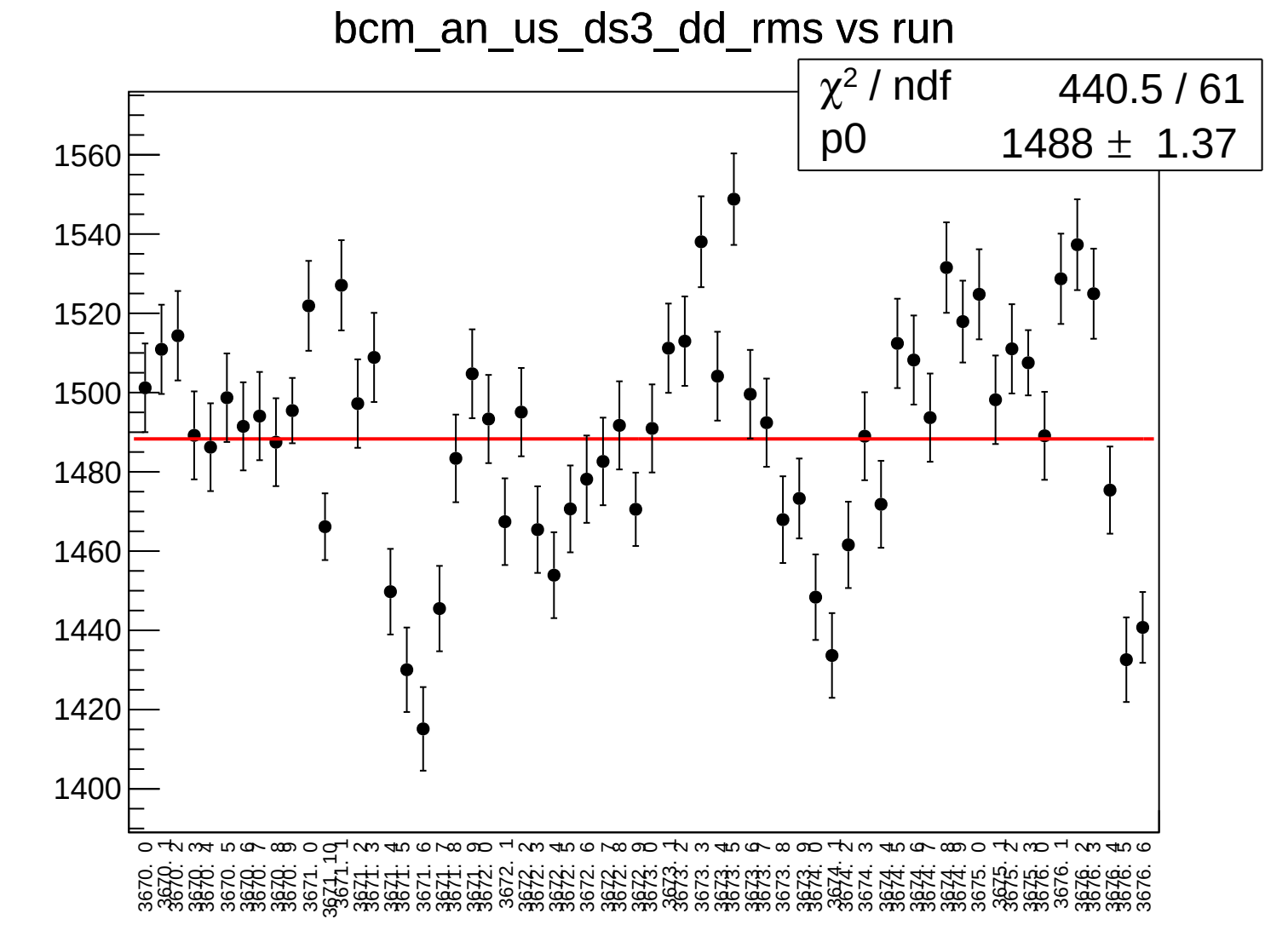

bcm_an_us_ds3_avg_mean vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

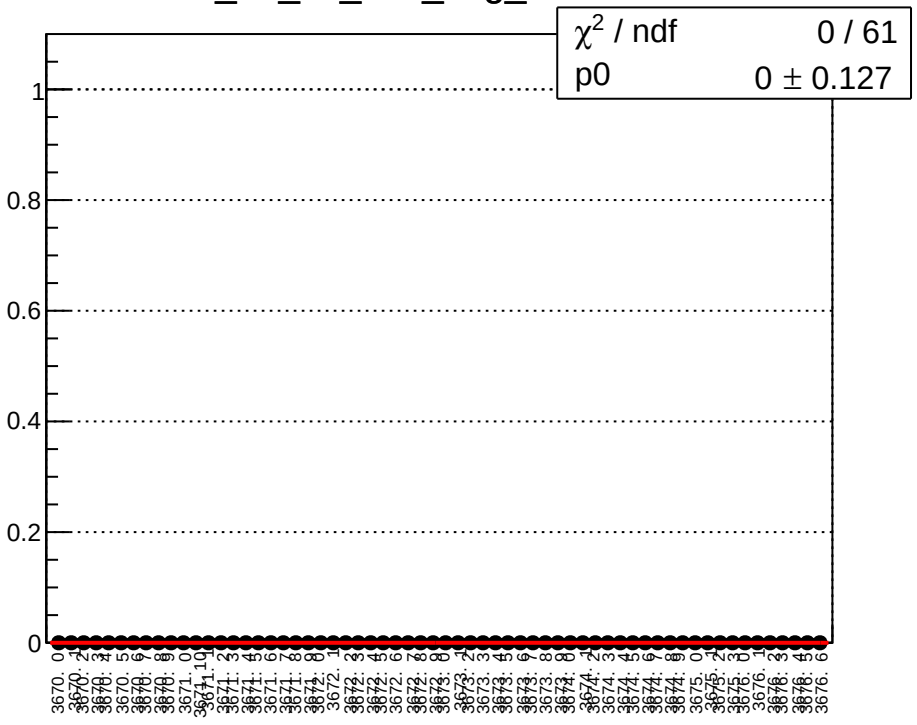

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

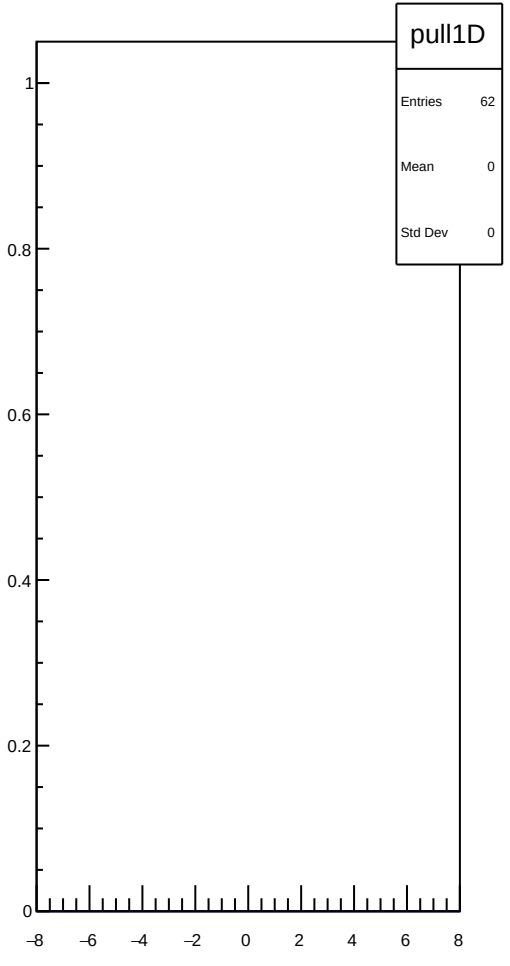

bcm_an_us_ds3_avg_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

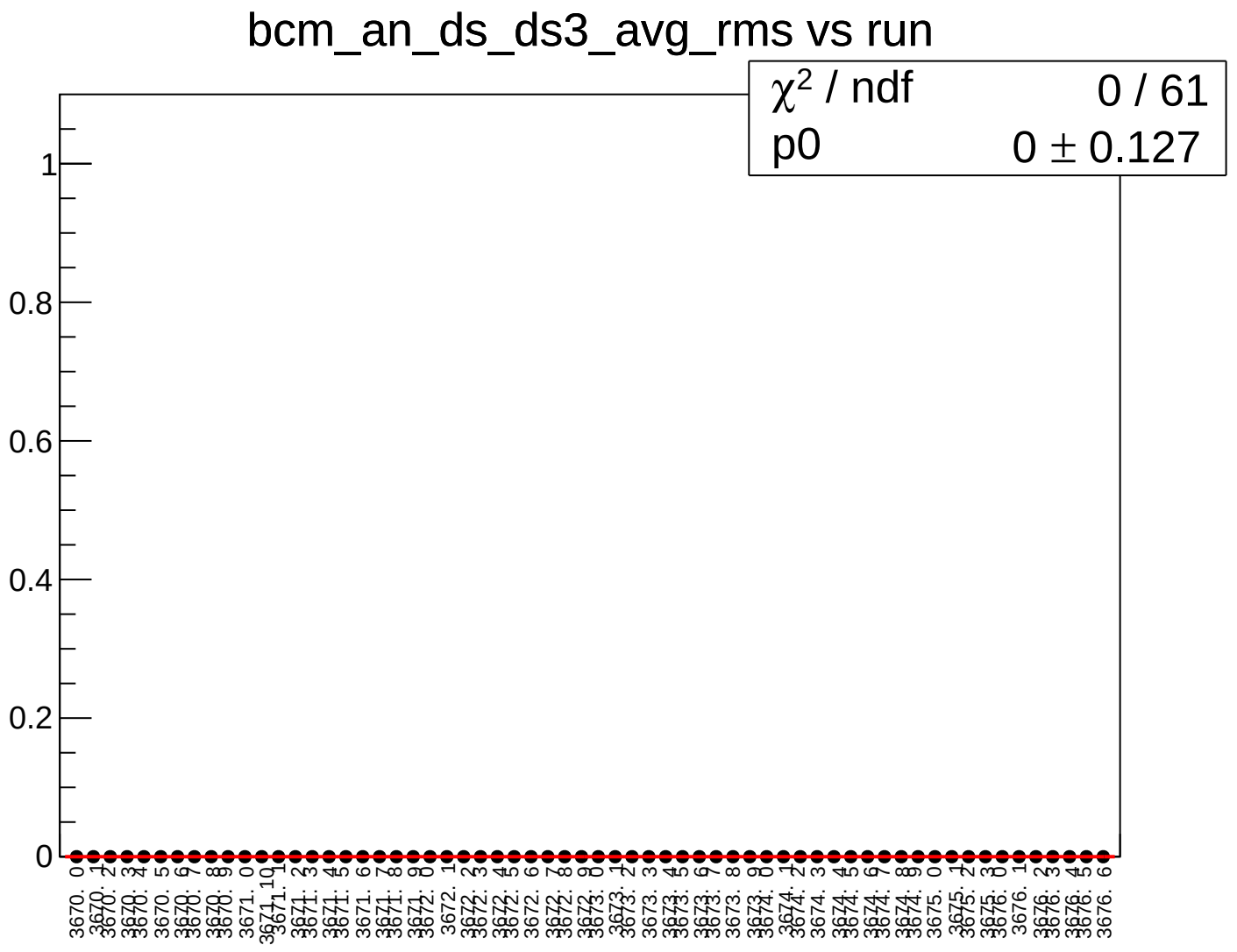

bcm_an_us_ds3_dd_mean vs run
χ² / ndf 55.89 / 61
p0 141.4 ± 1937
40000
20000
0
−20000
−40000
−60000
pull
Entries 62
Mean −287.5
Std Dev 322.1
2
1
0
−1
−2
−3

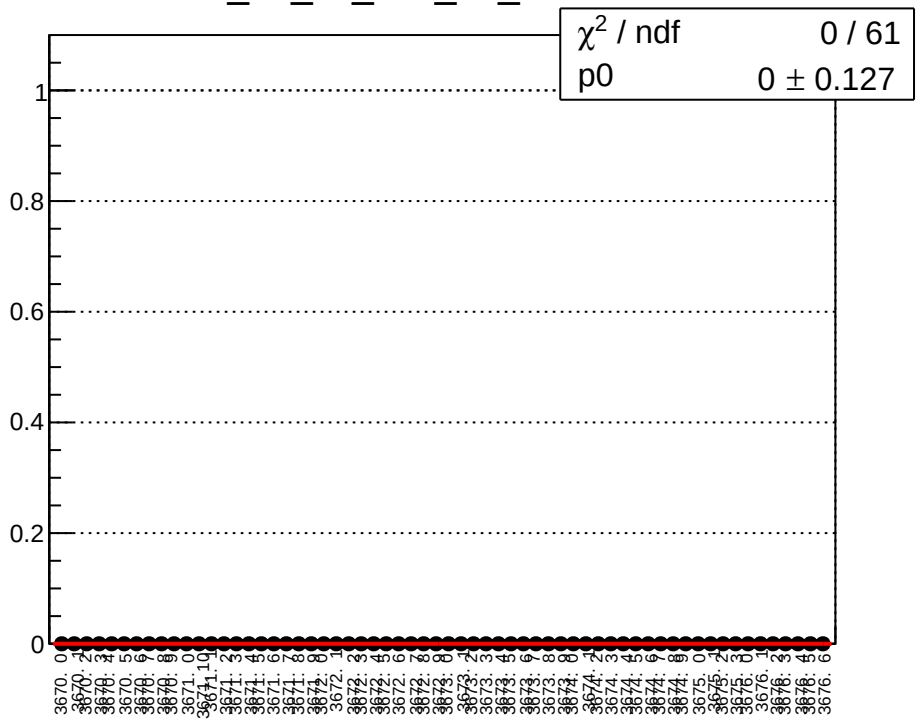

pull1D
Entries 62
Mean −0.008034
Std Dev 0.9494
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

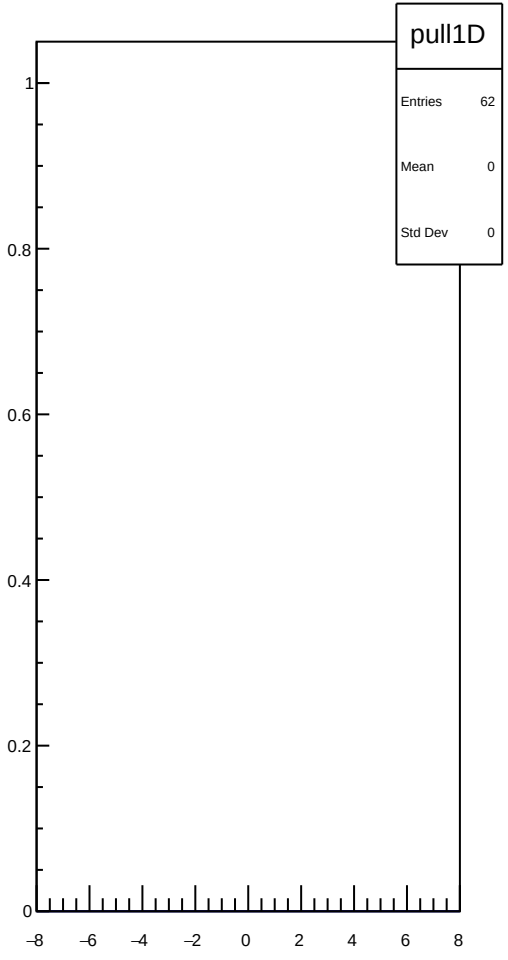

bcm_an_us_ds3_dd_rms vs run
χ² / ndf 440.5 / 61
p0 1488 ± 1.37
1560
1540
1520
1500
1480
1460
1440
1420
1400


bcm_an_ds_ds3_avg_mean vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_an_ds_ds3_avg_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6


bcm_an_ds_ds3_dd_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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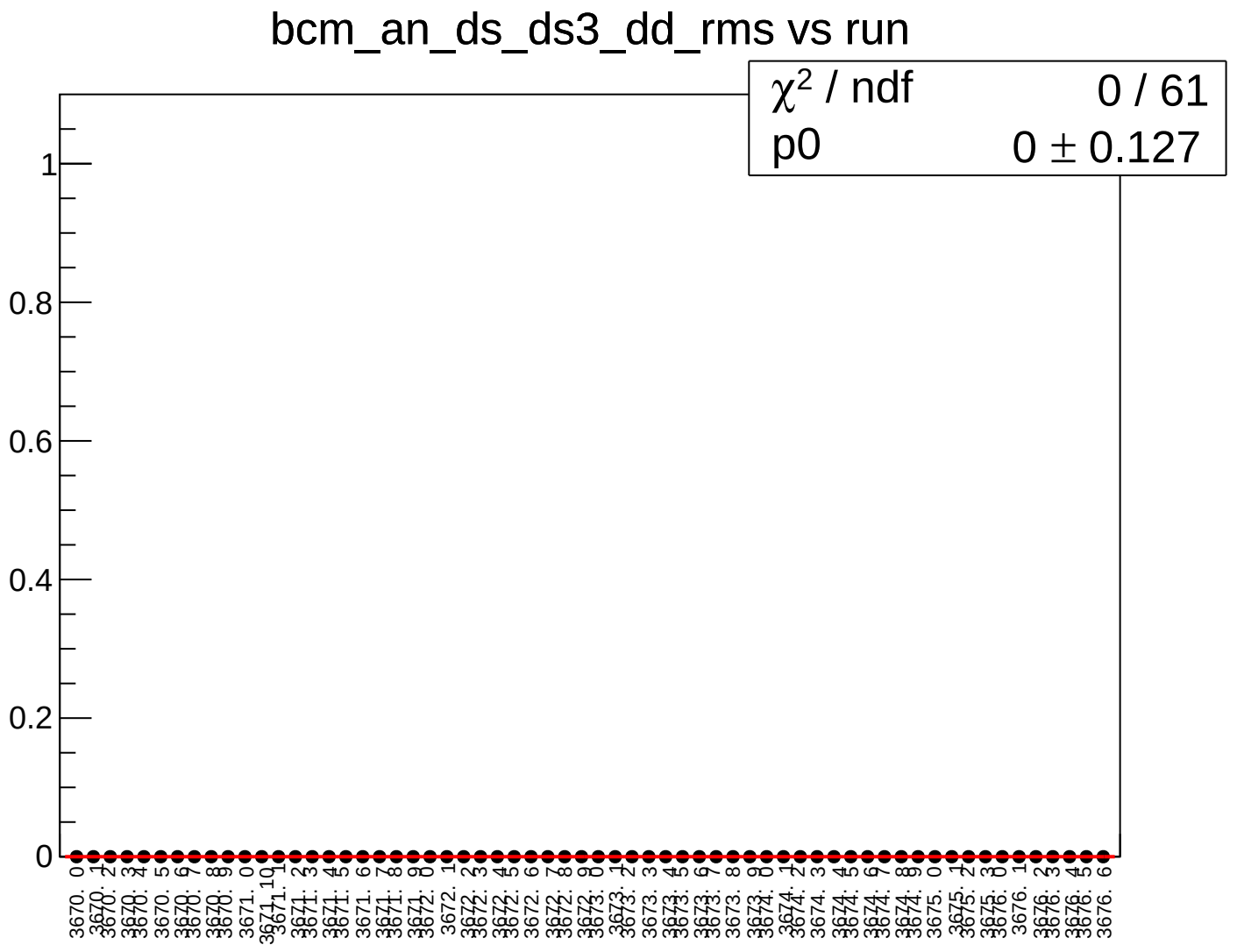
2
4
6
8


bcm_an_ds_ds3_dd_rms vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
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3671. 9
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3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
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3673. 9
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3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
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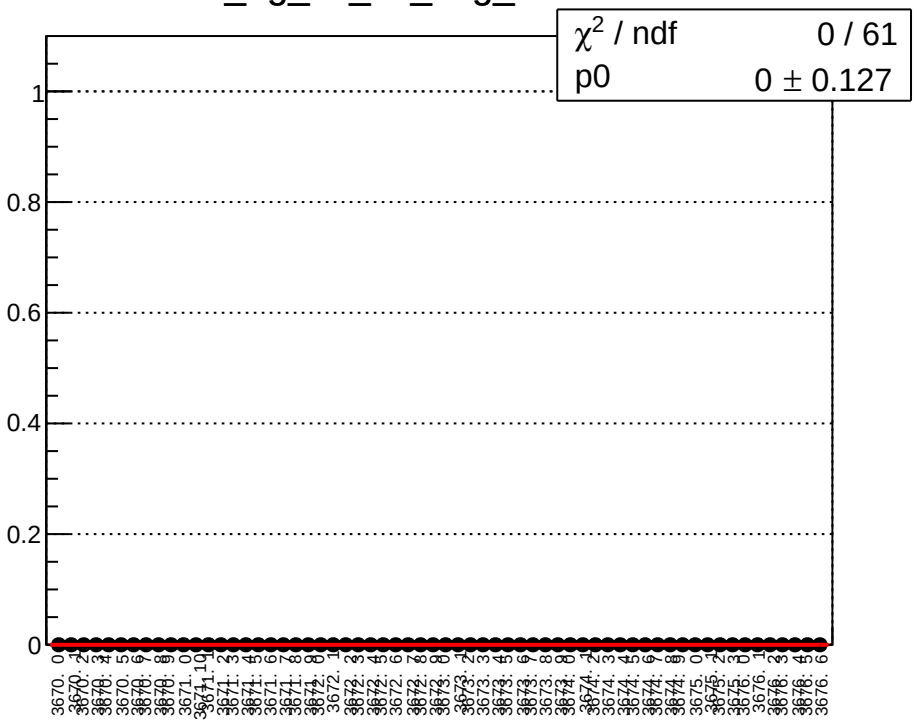
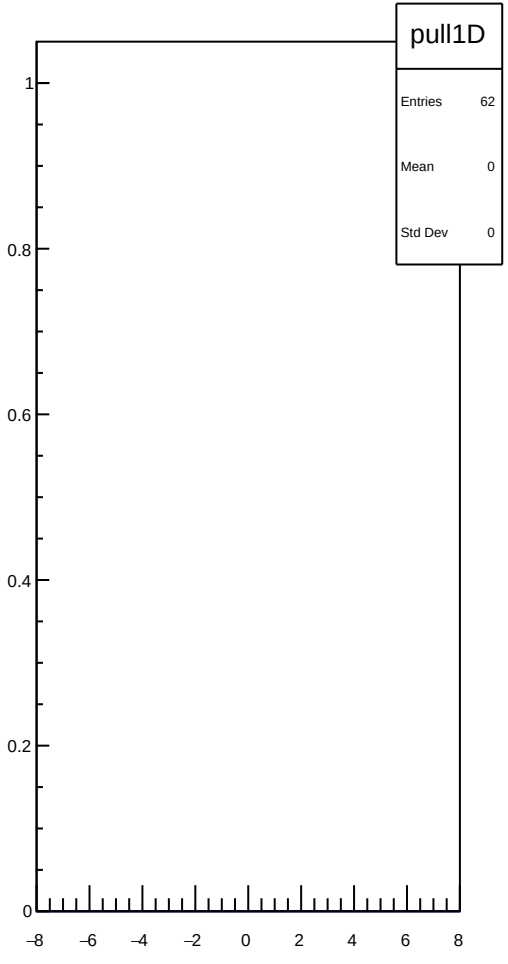
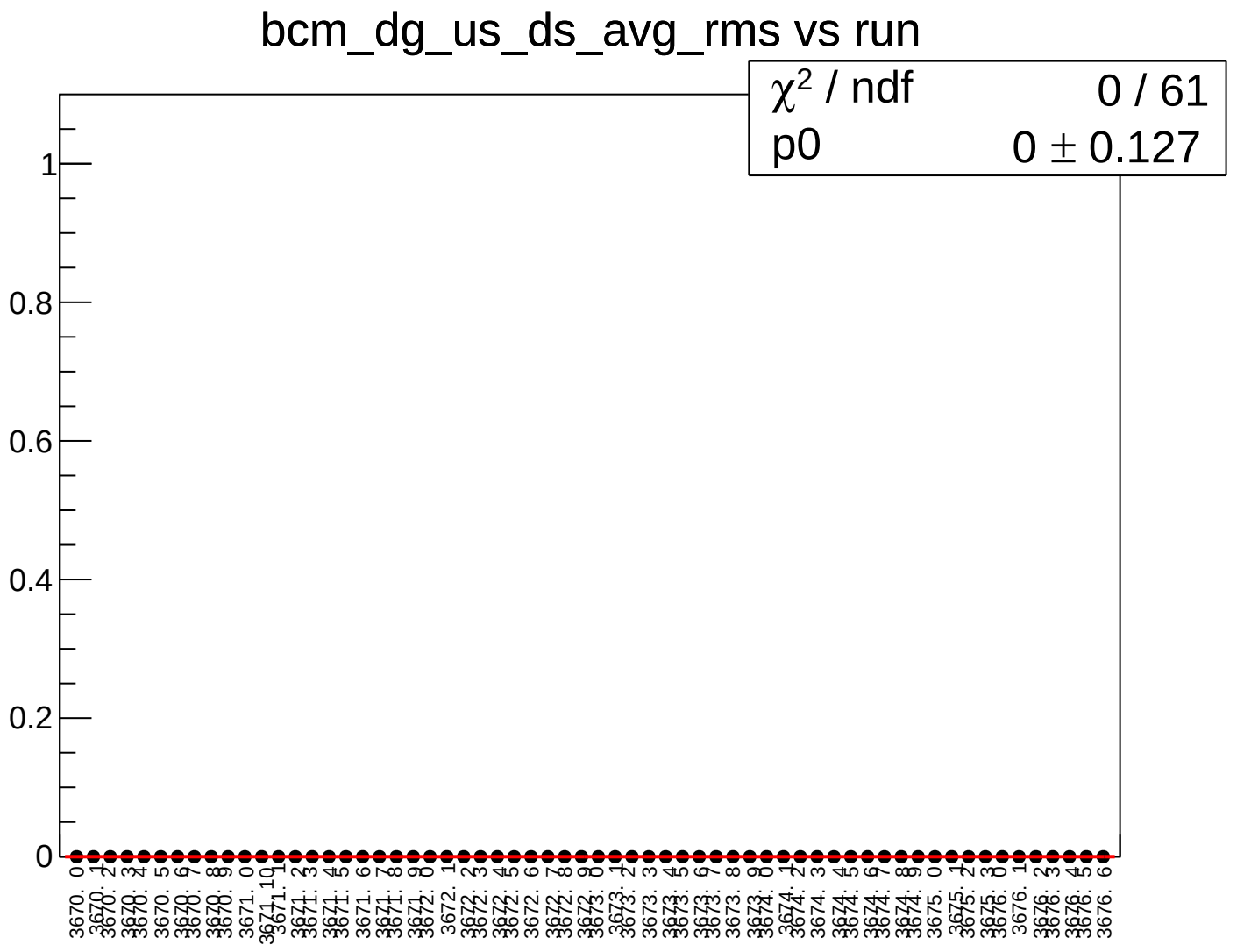
3676. 6


bcm_dg_us_ds_avg_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_us_ds_avg_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
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3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
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3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
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3675. 3
3676. 0
3676. 1
3676. 2
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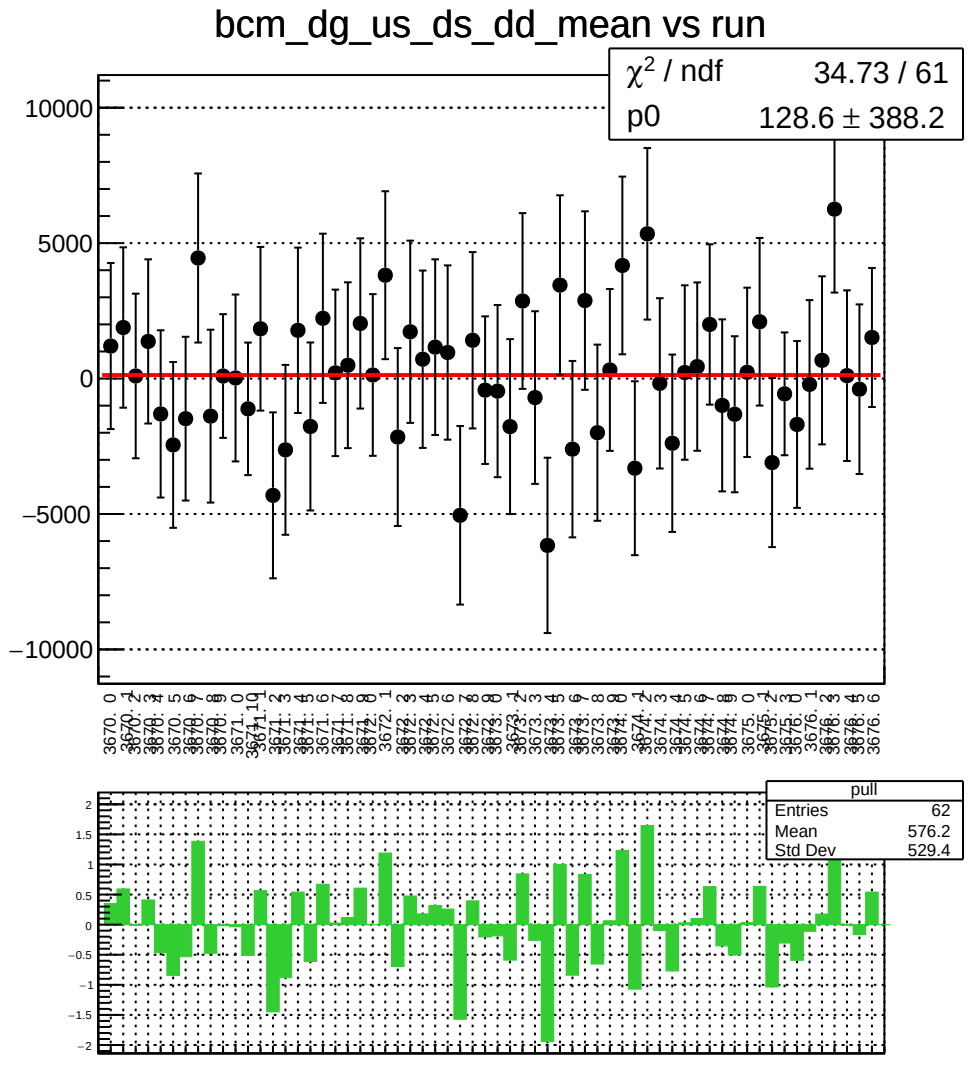
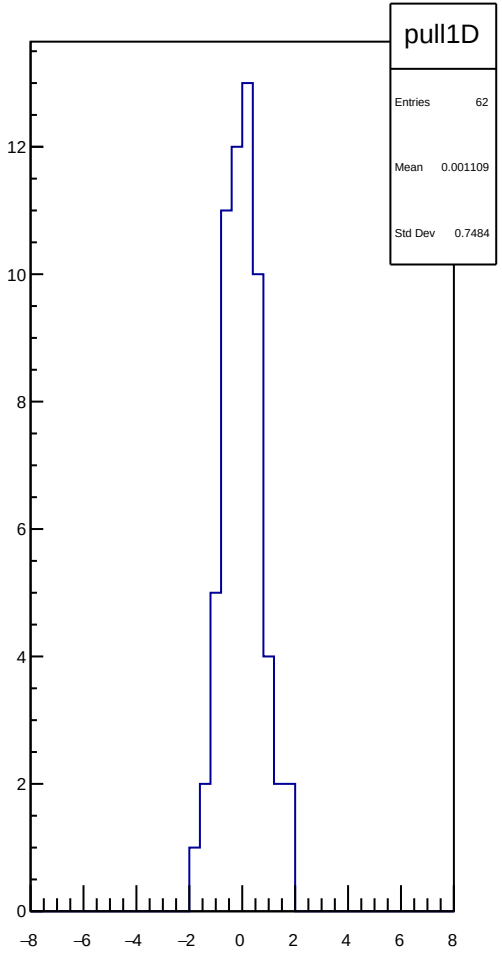
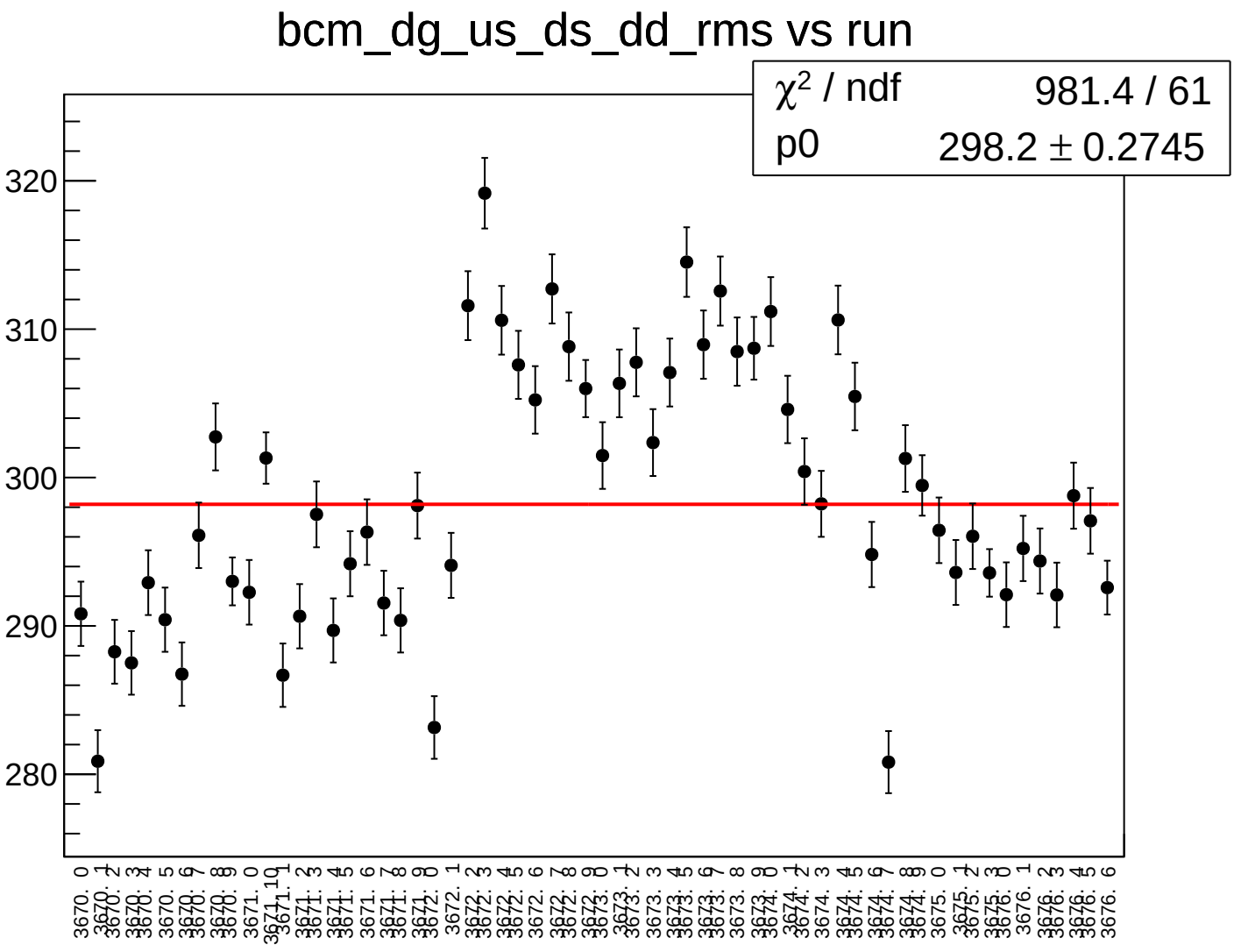
3676. 5
3676. 6


bcm_dg_us_ds_dd_mean vs run
χ² / ndf 34.73 / 61
p0 128.6 ± 388.2
pull
Entries 62
Mean 576.2
Std Dev 529.4


pull1D
Entries 62
Mean 0.001109
Std Dev 0.7484


bcm_dg_us_ds_dd_rms vs run
χ² / ndf 981.4 / 61
p0 298.2 ± 0.2745
320
310
300
290
280
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
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3672. 0
3672. 1
3672. 2
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3673. 2
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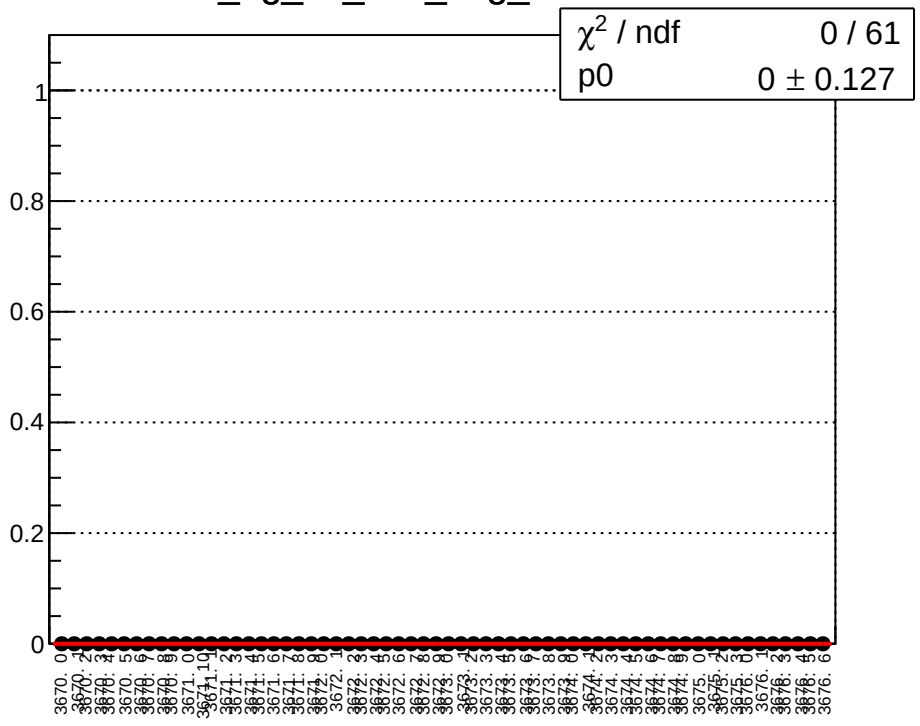
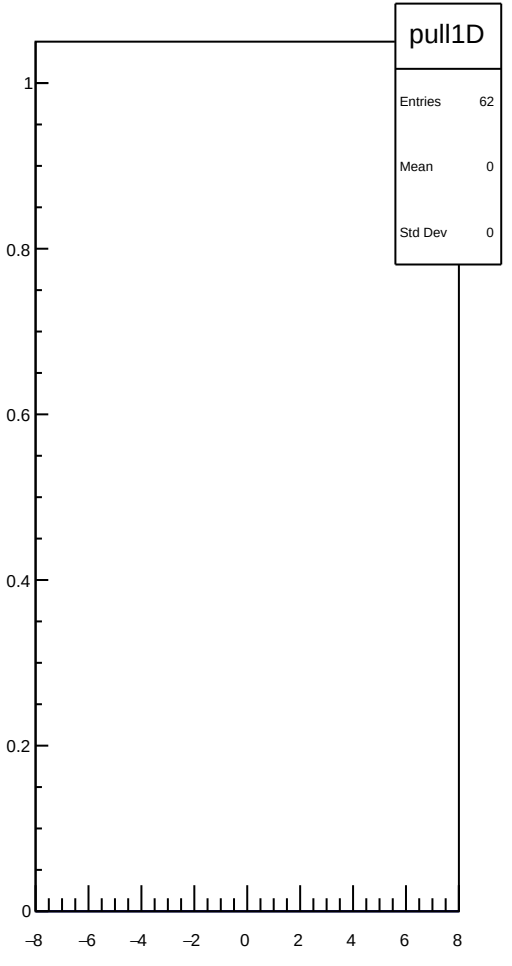
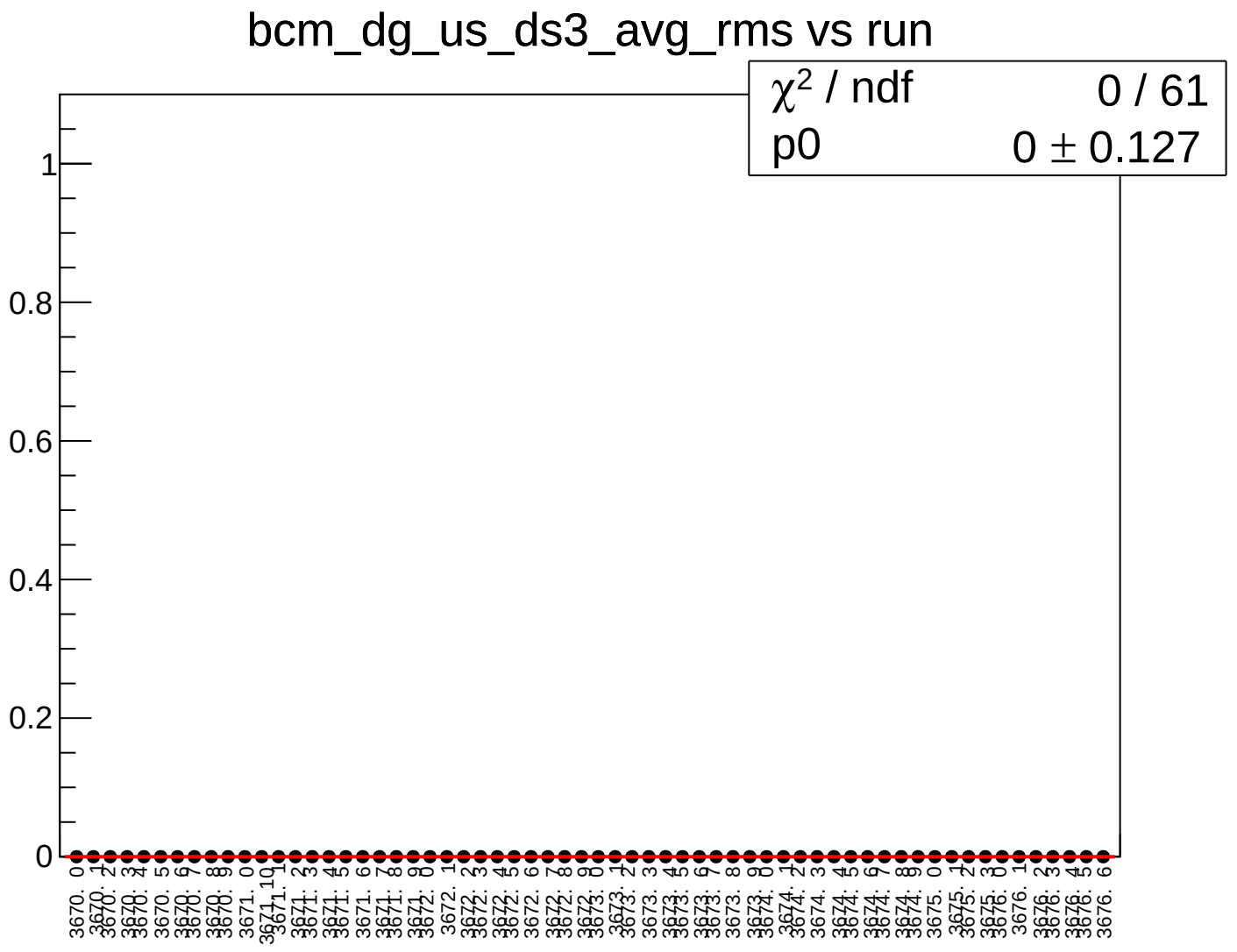
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6


bcm_dg_us_ds3_avg_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_us_ds3_avg_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
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3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
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3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
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3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
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3674. 8
3674. 9
3675. 0
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3675. 3
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3676. 2
3676. 3
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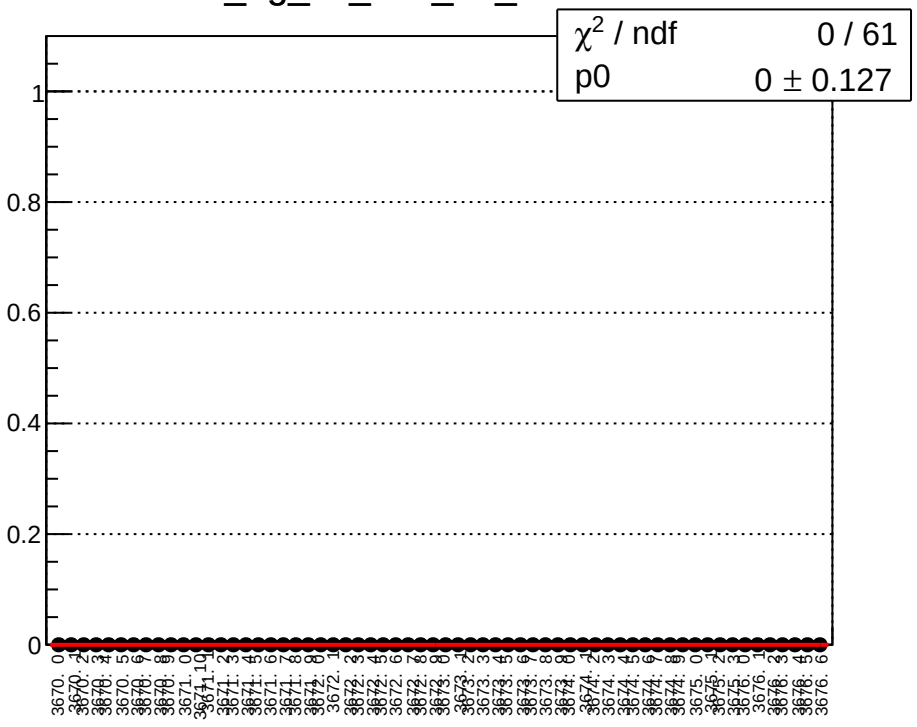
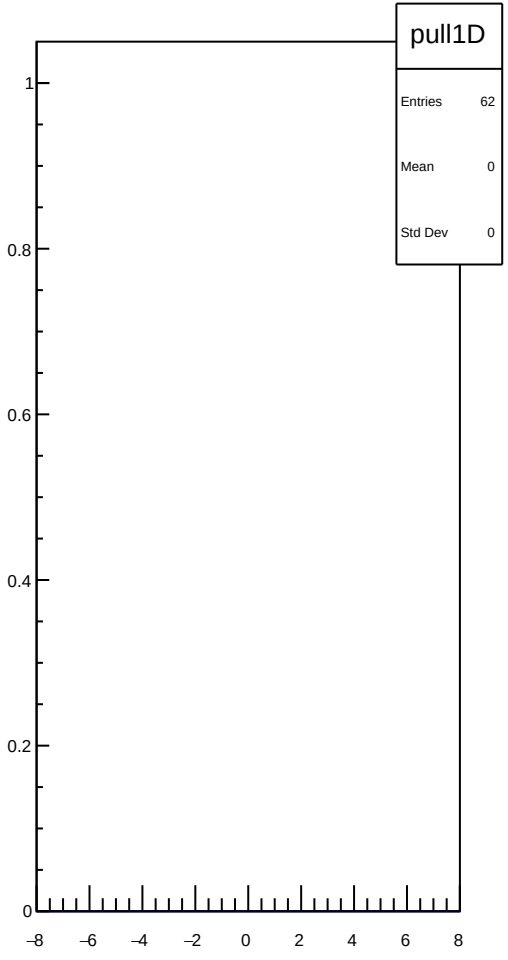
3676. 6


bcm_dg_us_ds3_dd_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 62
Mean 0
Std Dev 0
1
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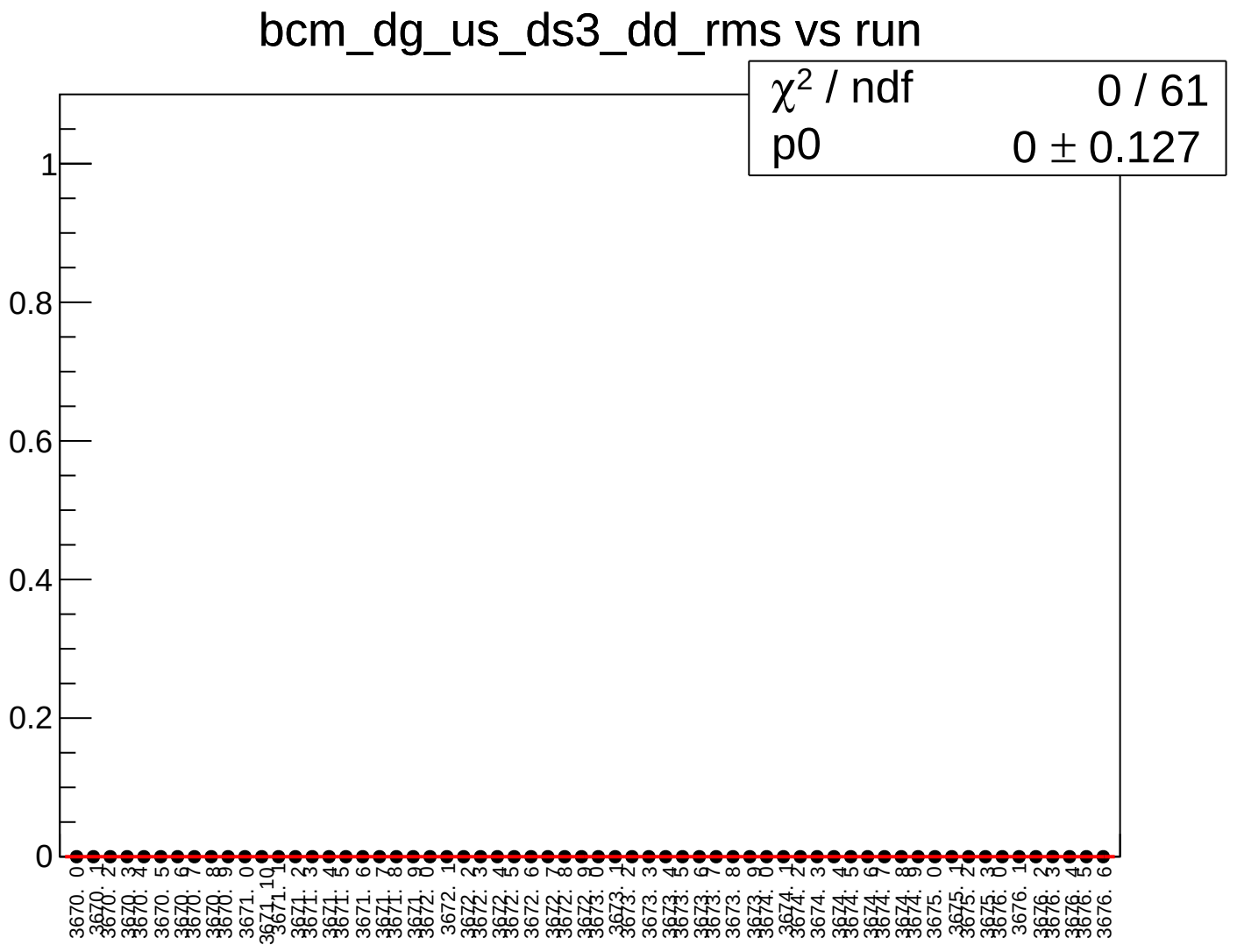
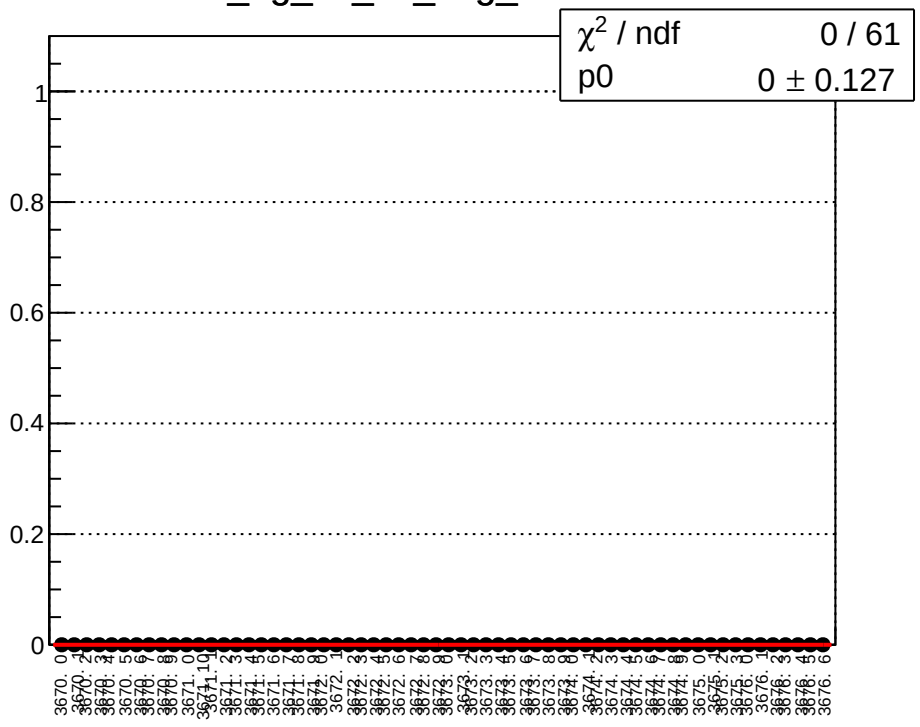
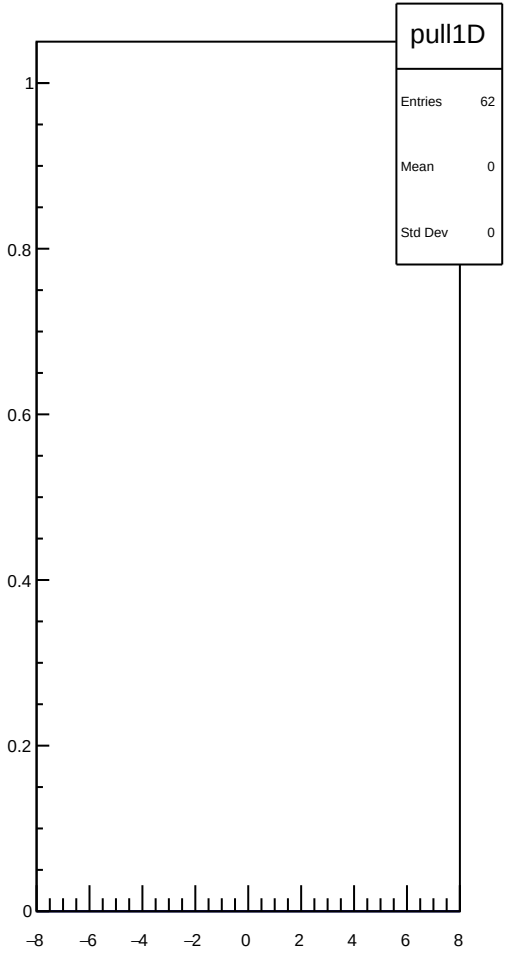
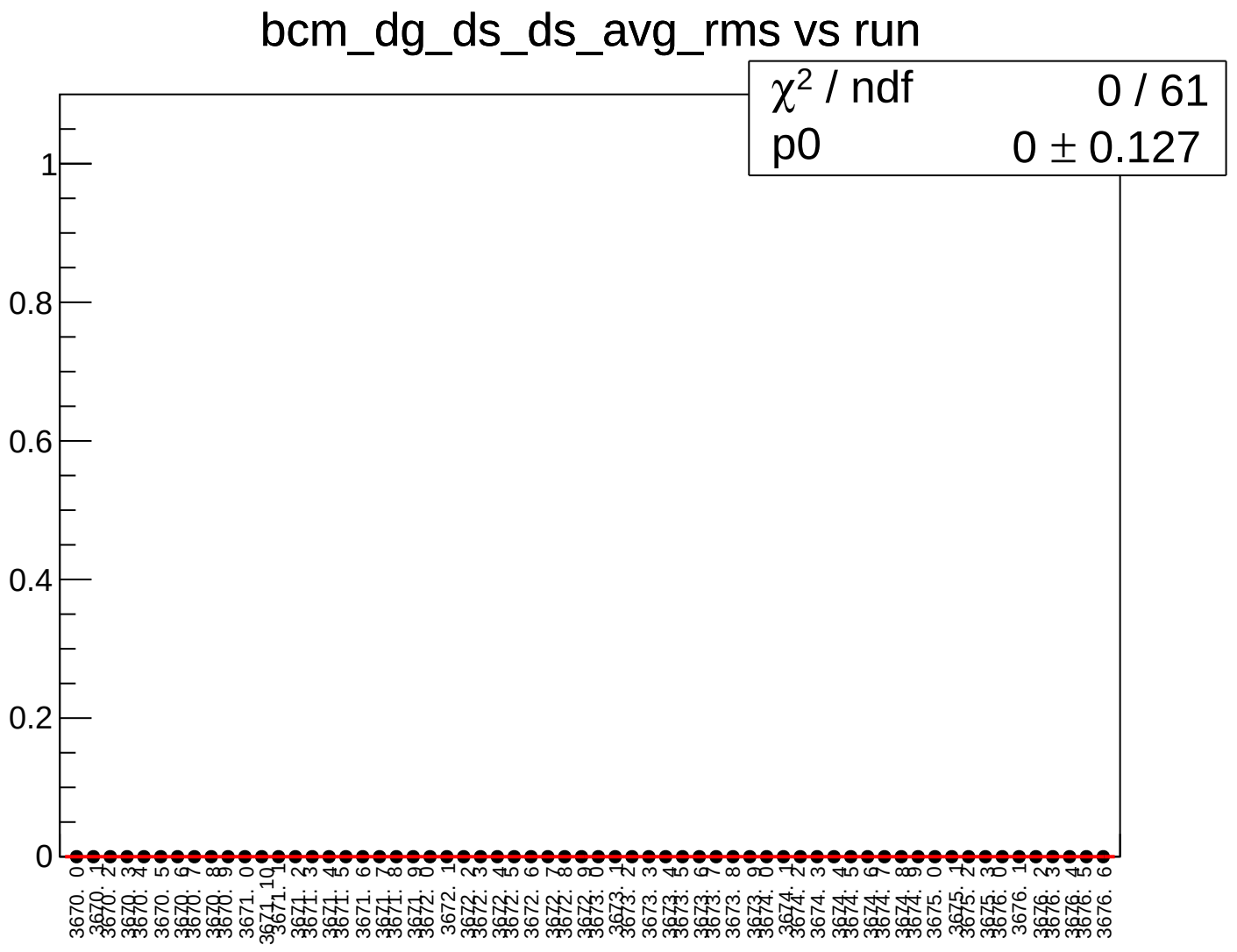
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_us_ds3_dd_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0


bcm_dg_ds_ds_avg_mean vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_ds_ds_avg_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
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3673. 7
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3674. 0
3674. 1
3674. 2
3674. 3
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3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
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3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
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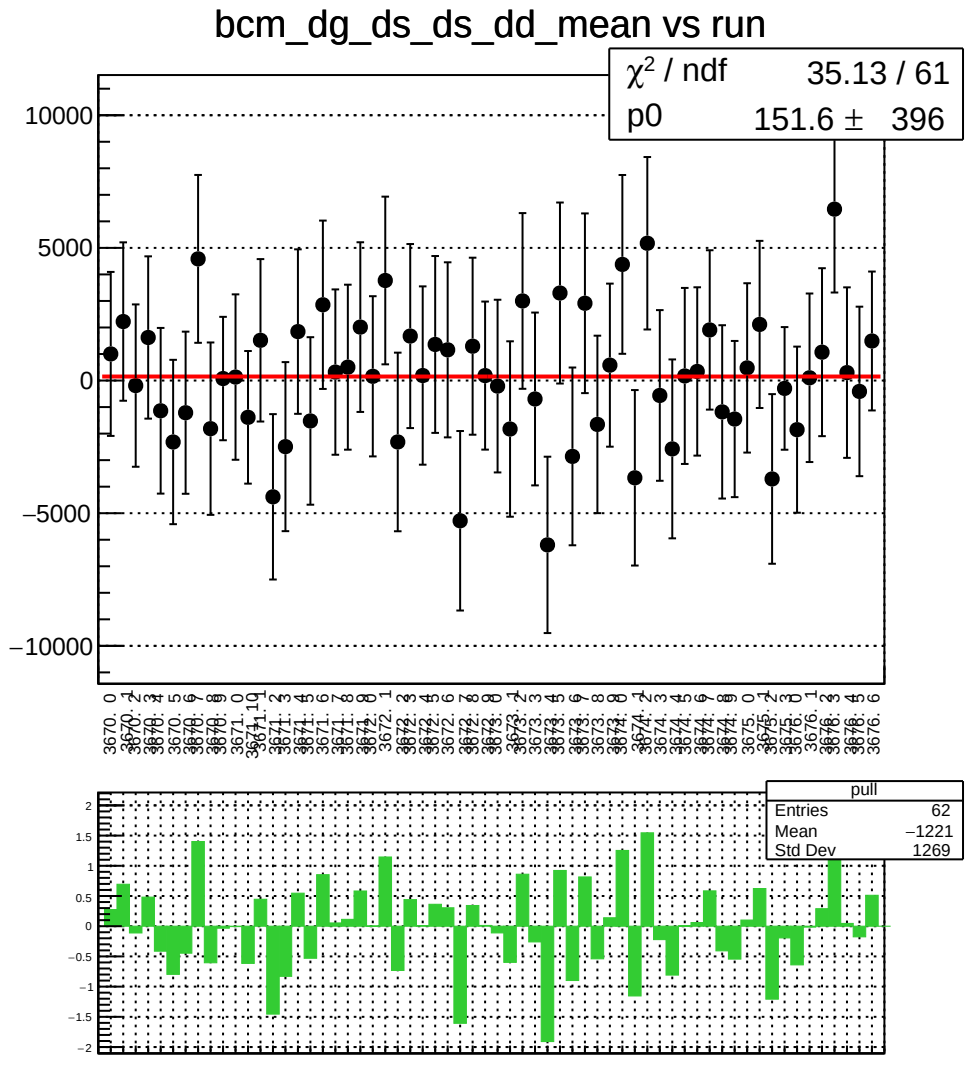
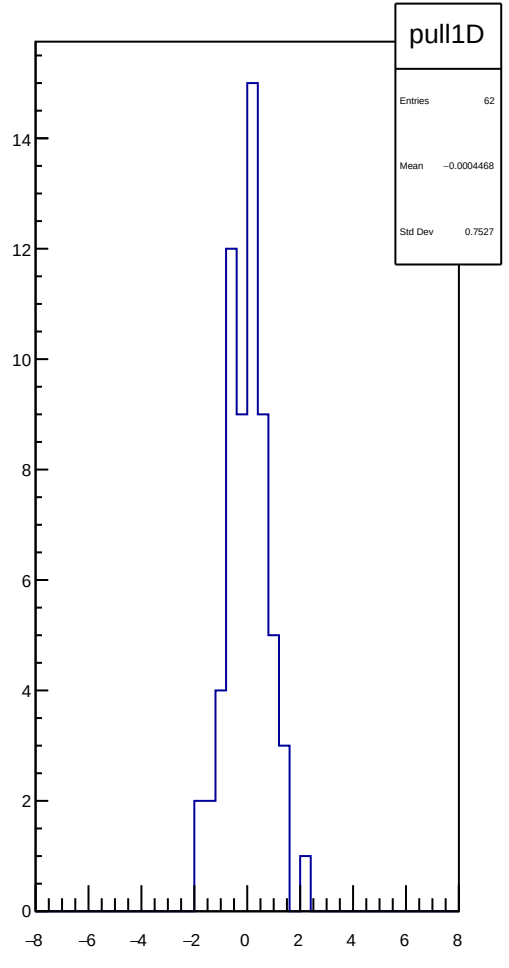
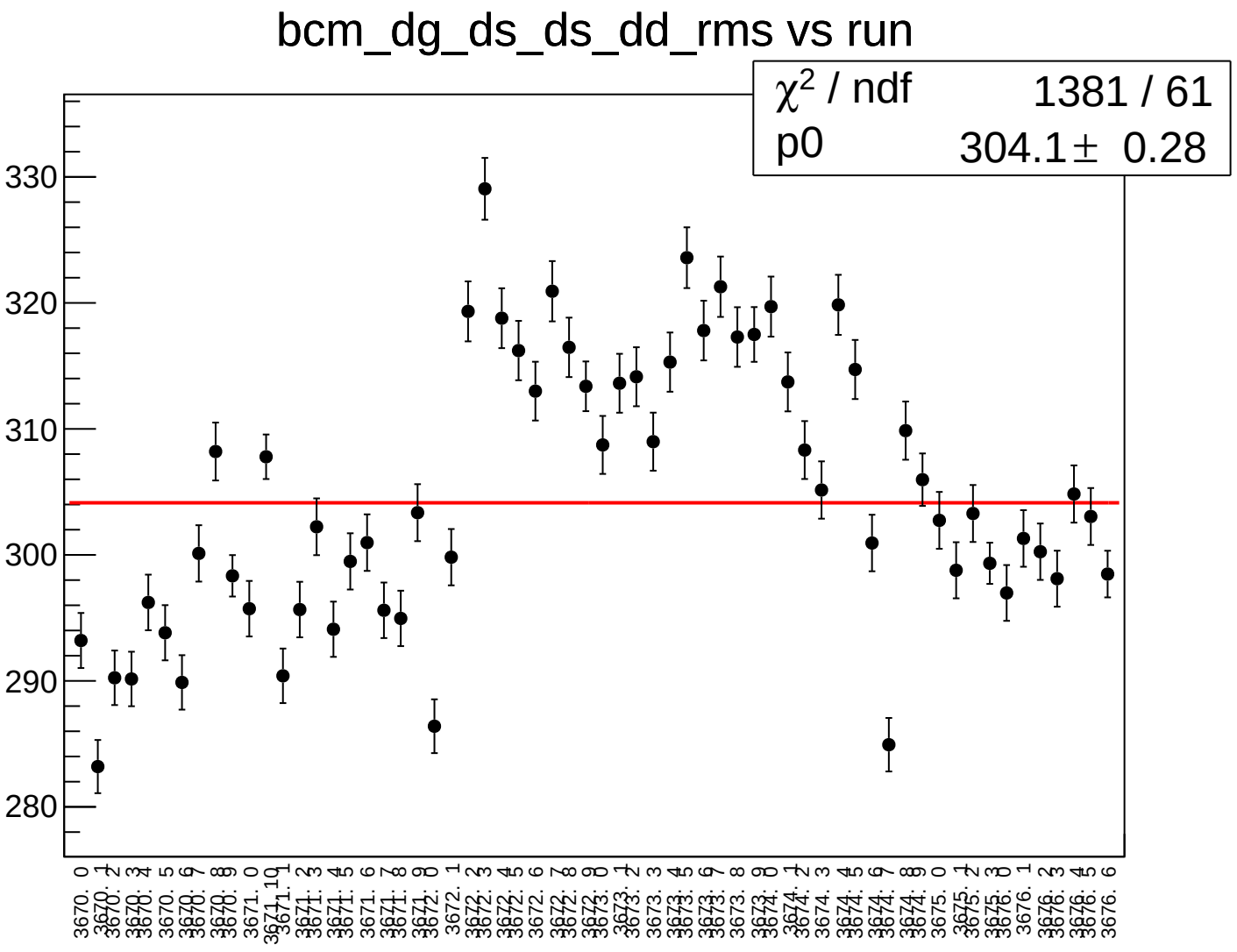
3676. 5
3676. 6


bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 35.13 / 61
p0 151.6 ± 396
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −1221
Std Dev 1269
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 62
Mean −0.0004468
Std Dev 0.7527
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 1381 / 61
p0 304.1 ± 0.28
330
320
310
300
290
280
3670. 0
3670. 1
3670. 2
3670. 3
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3670. 5
3670. 6
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3672. 1
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3675. 0
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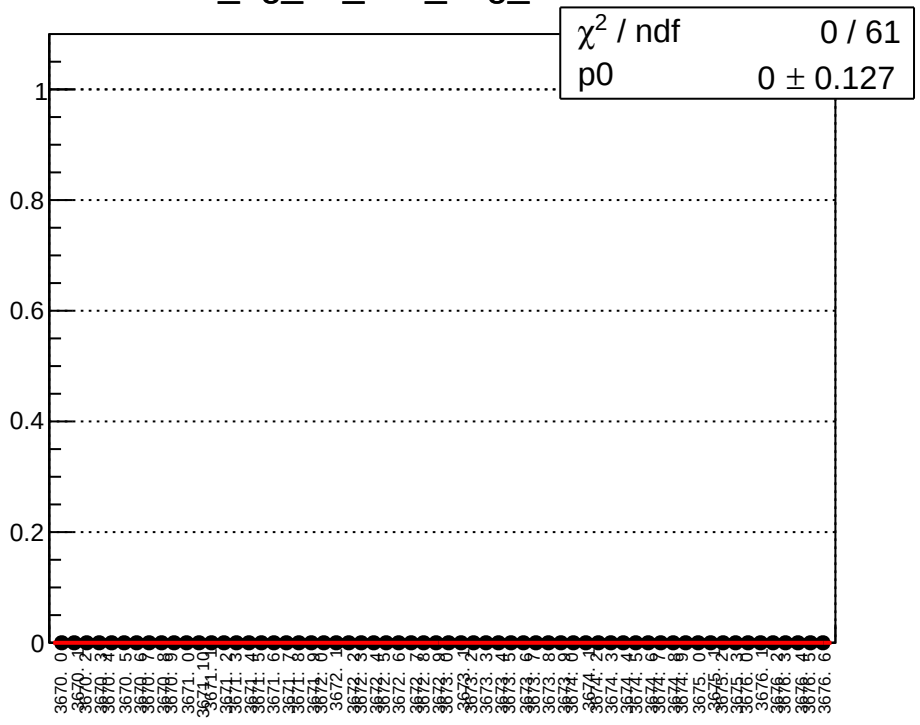
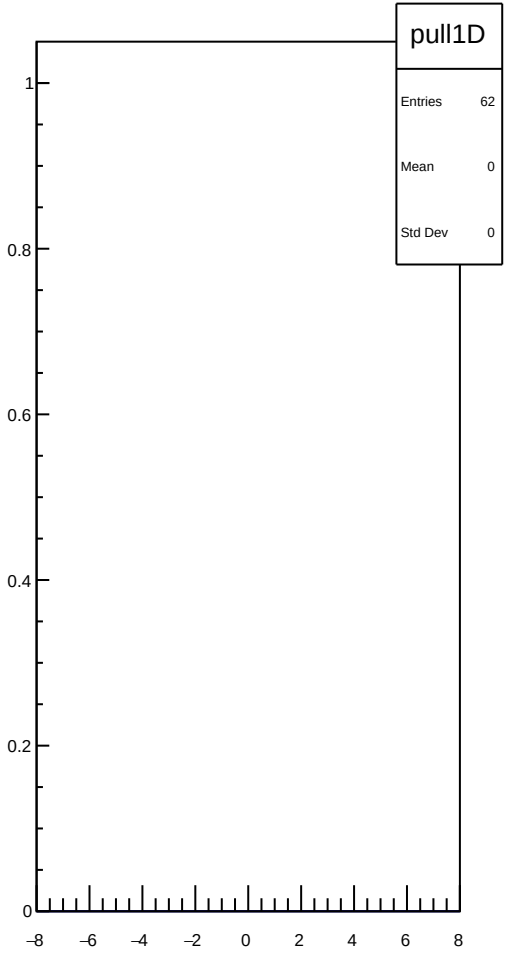
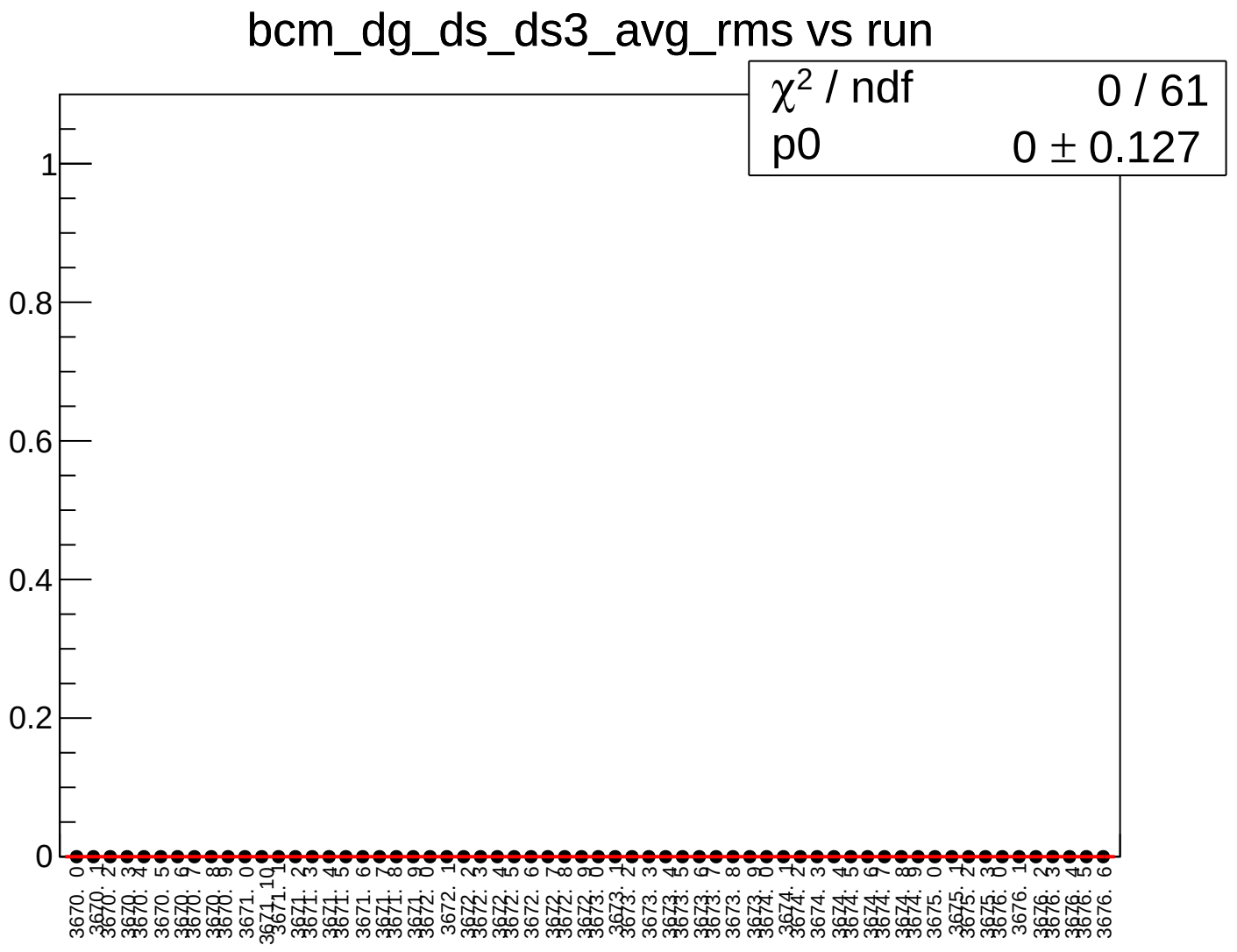

bcm_dg_ds_ds3_avg_mean vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_ds_ds3_avg_rms vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
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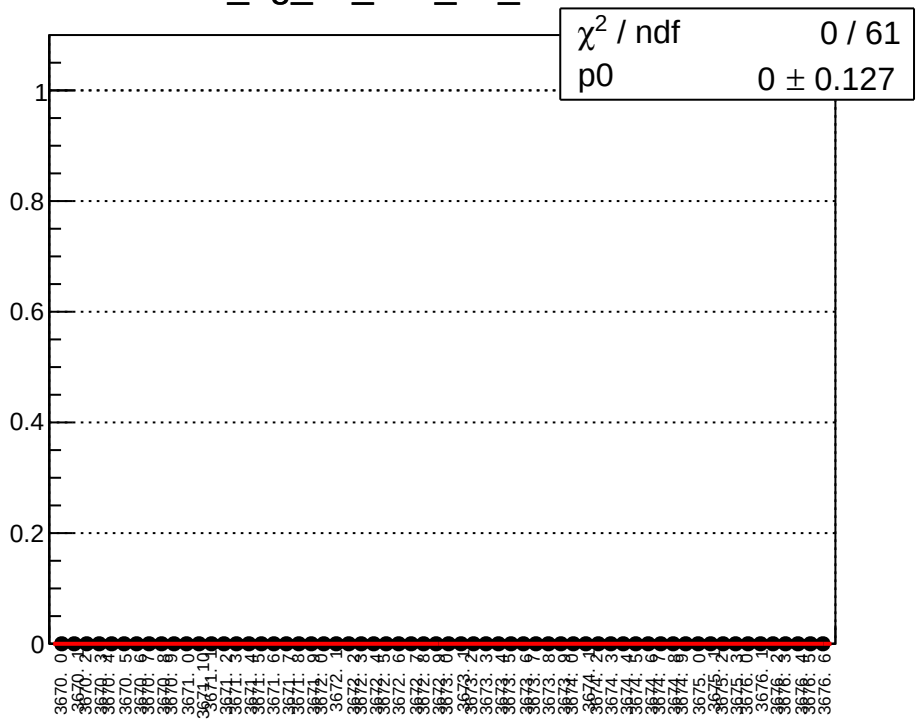
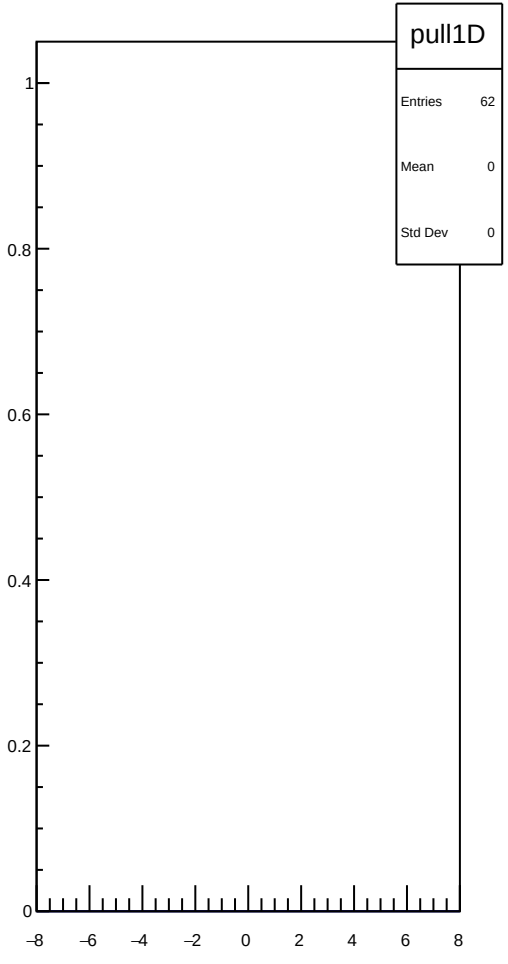
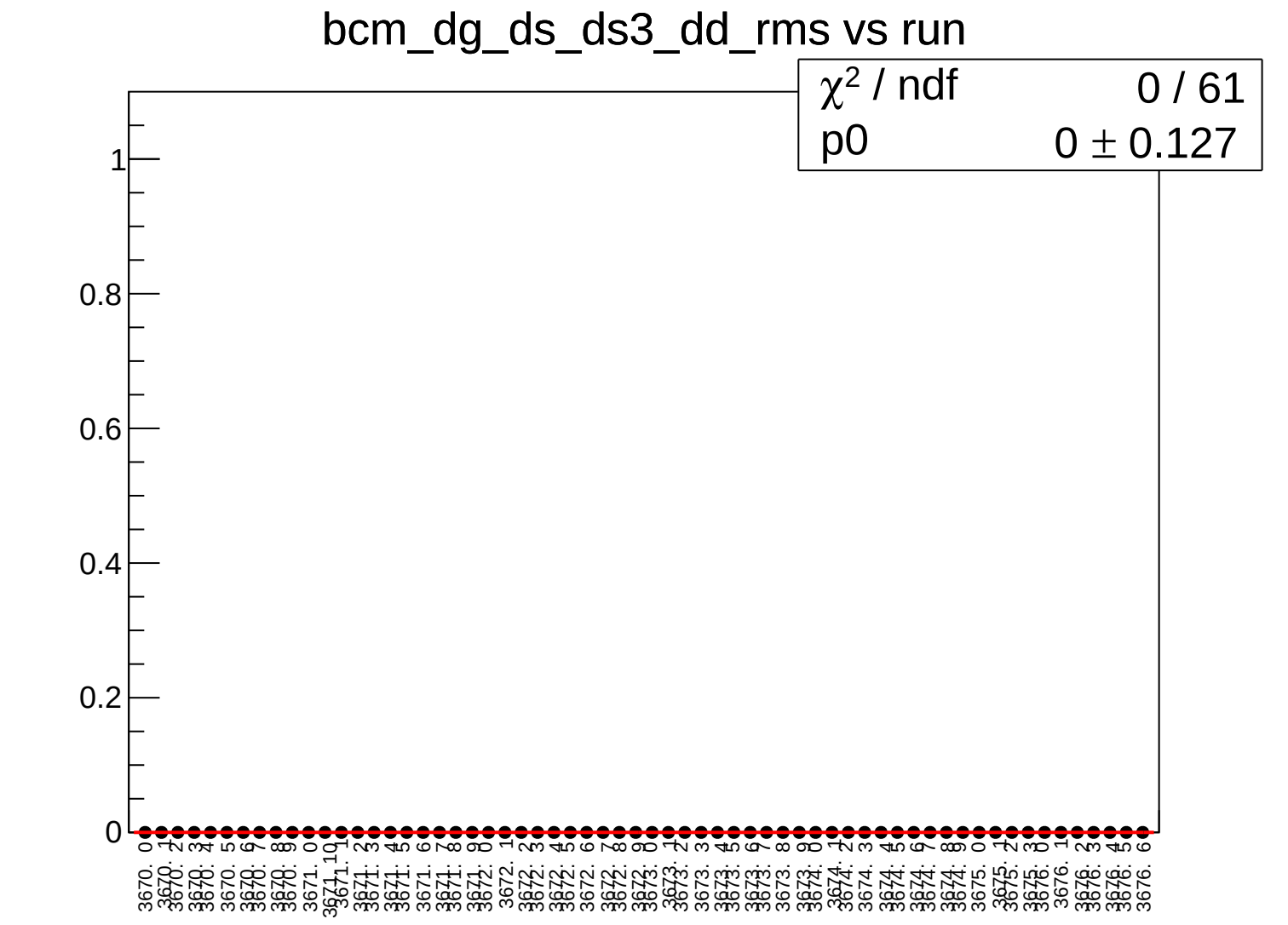
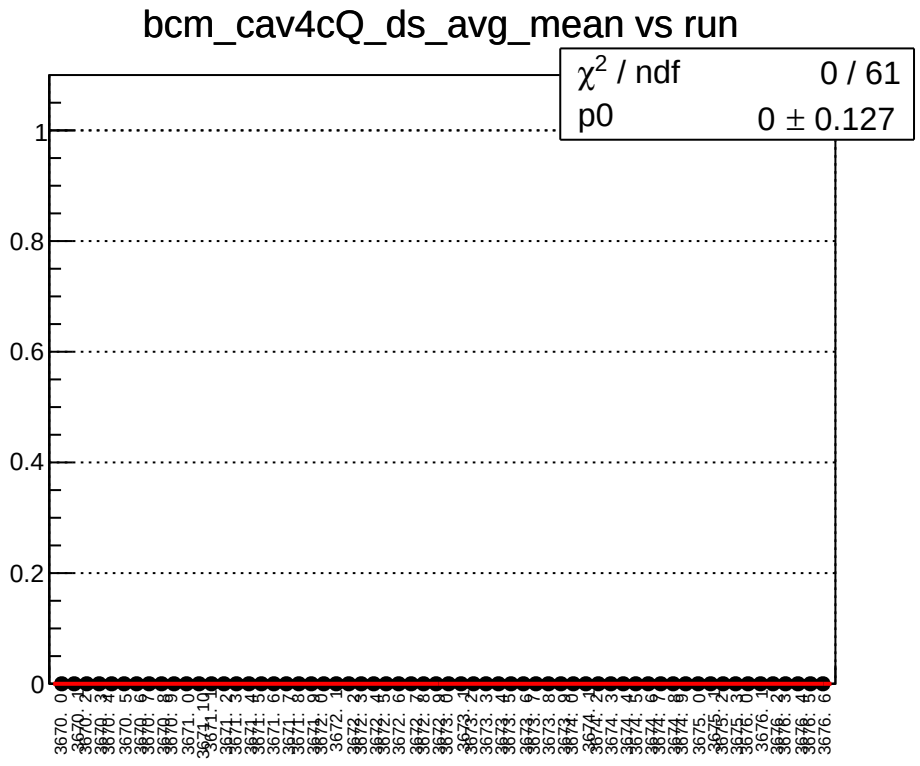
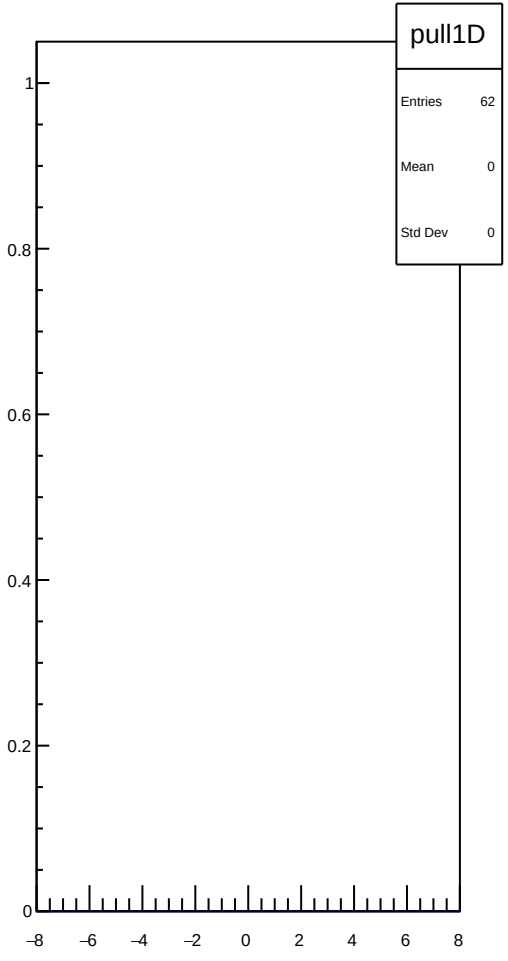
3676. 5
3676. 6

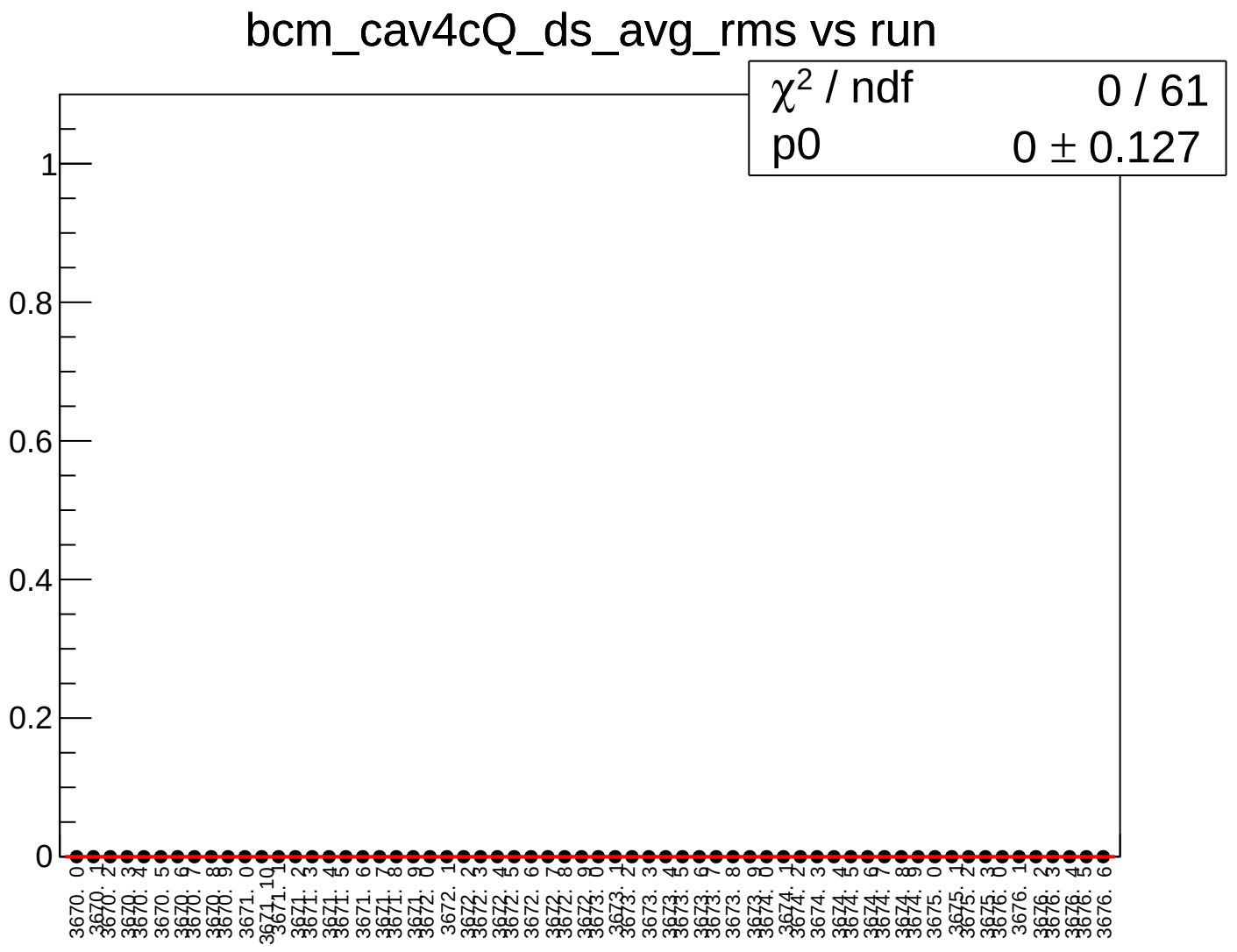

bcm_dg_ds_ds3_dd_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

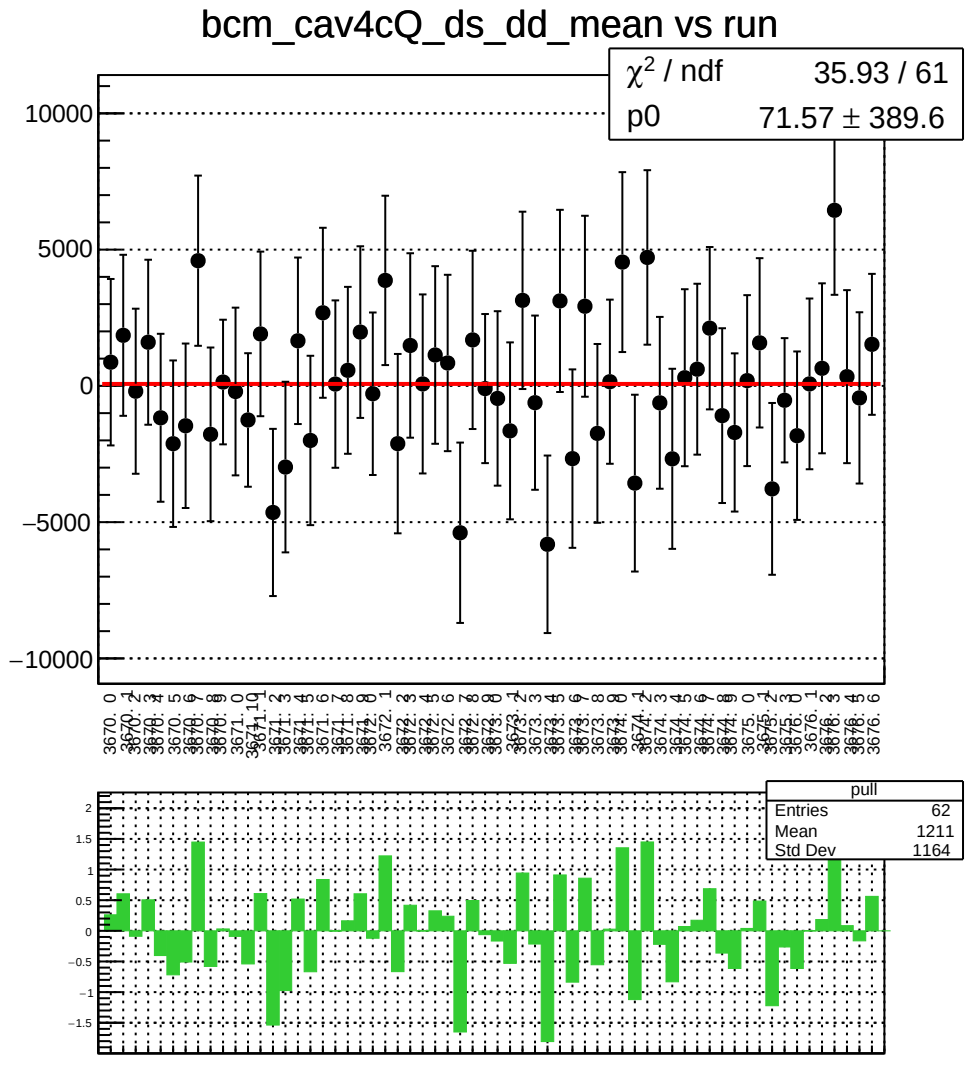

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

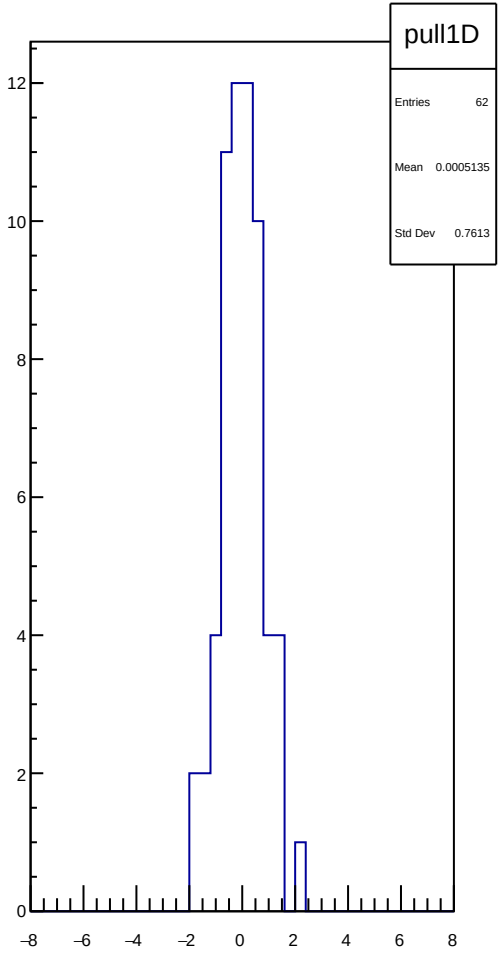

bcm_dg_ds_ds3_dd_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

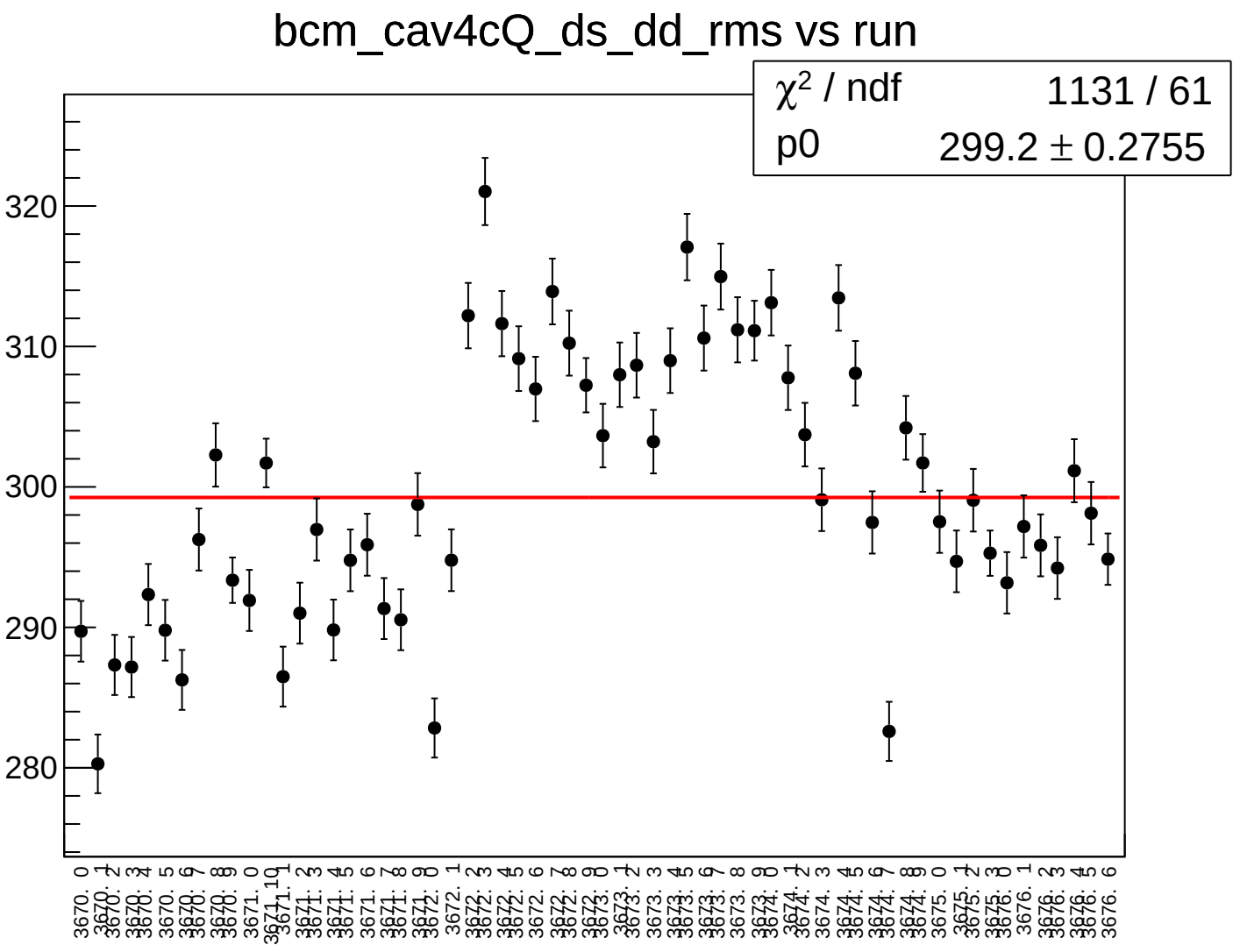

bcm_cav4cQ_ds_avg_mean vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

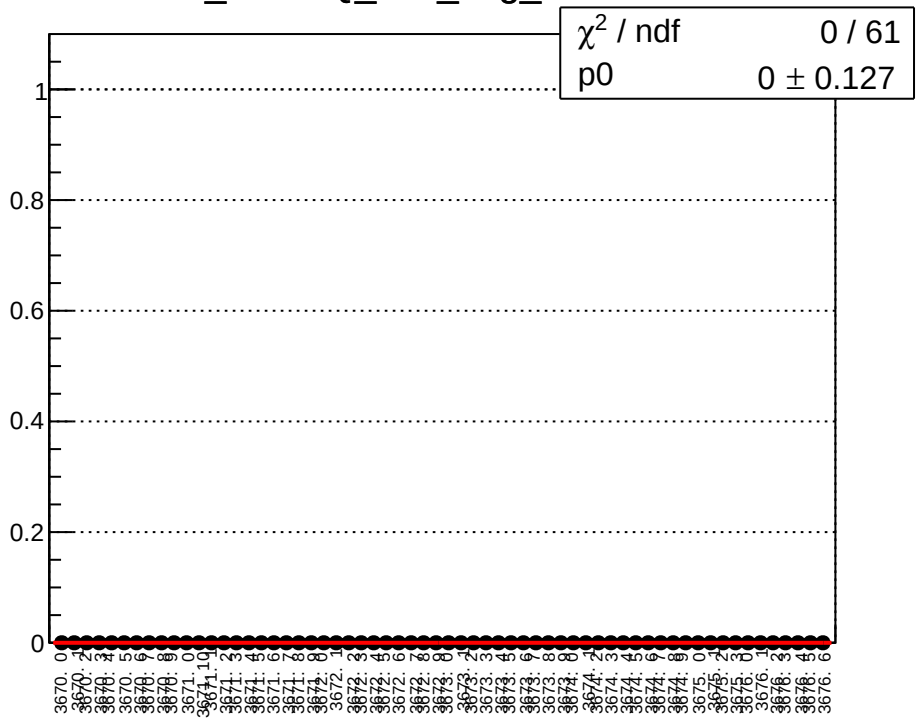

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

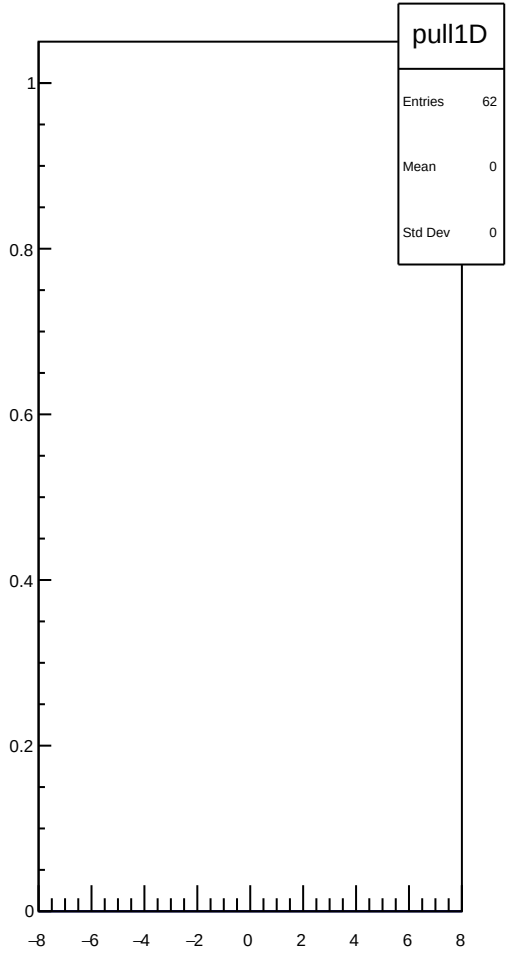

bcm_cav4cQ_ds_avg_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

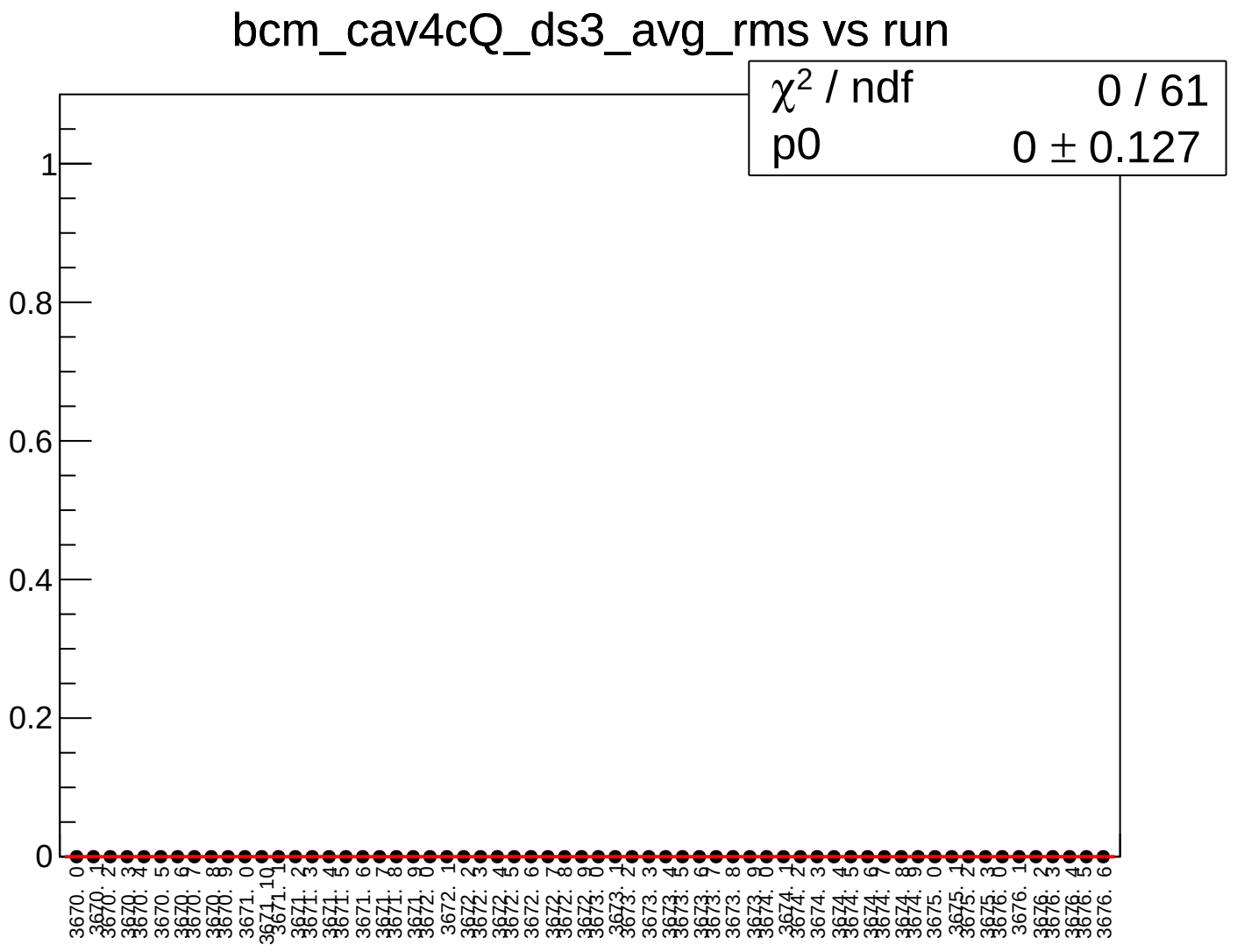

bcm_cav4cQ_ds_dd_mean vs run
χ² / ndf 35.93 / 61
p0 71.57 ± 389.6
10000
5000
0
−5000
−10000
pull
Entries 62
Mean 1211
Std Dev 1164
2
1.5
1
0.5
0
−0.5
−1
−1.5

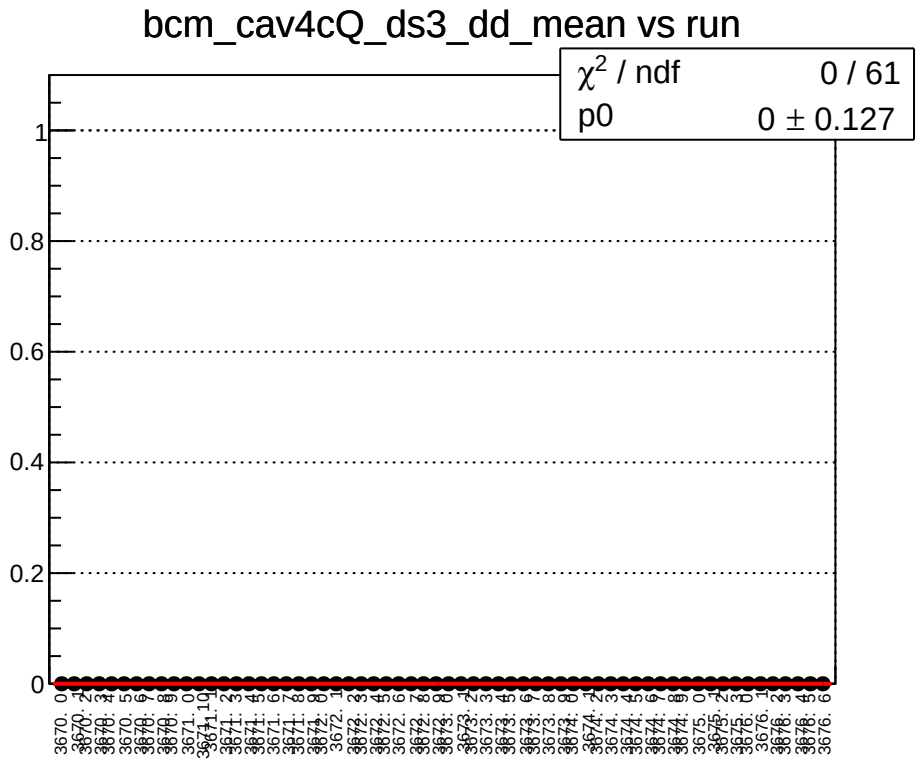

pull1D
Entries 62
Mean 0.0005135
Std Dev 0.7613
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

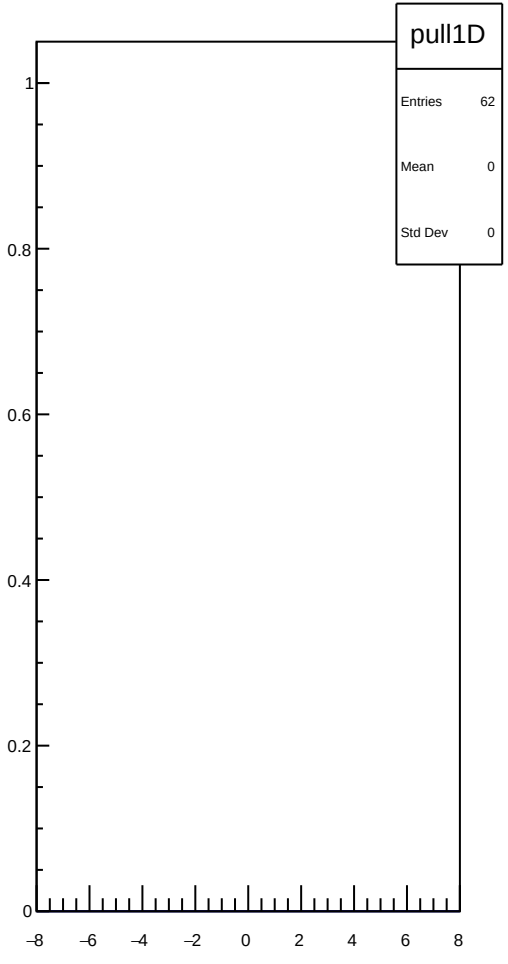

bcm_cav4cQ_ds_dd_rms vs run
χ² / ndf 1131 / 61
p0 299.2 ± 0.2755
320
310
300
290
280

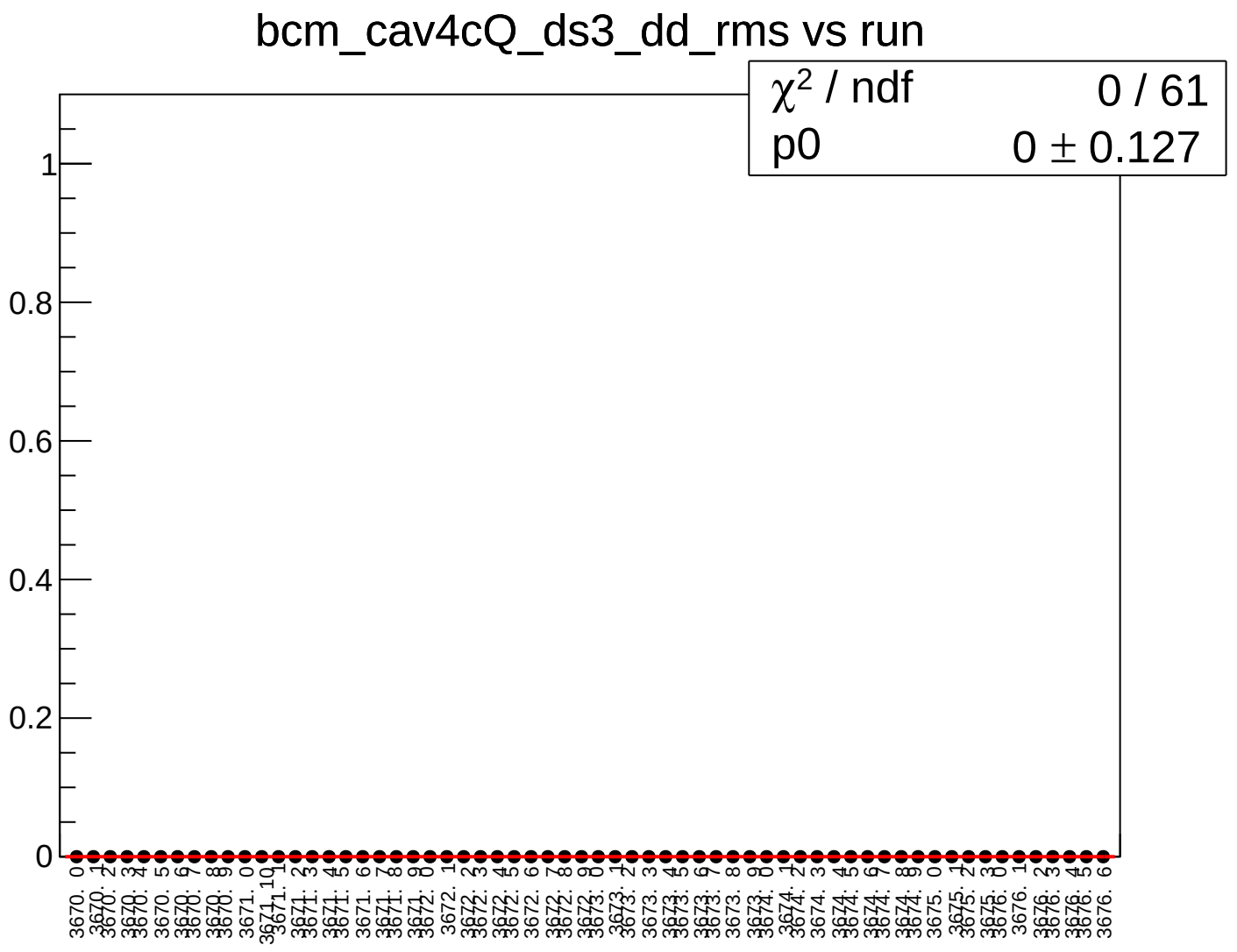

bcm_cav4cQ_ds3_avg_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

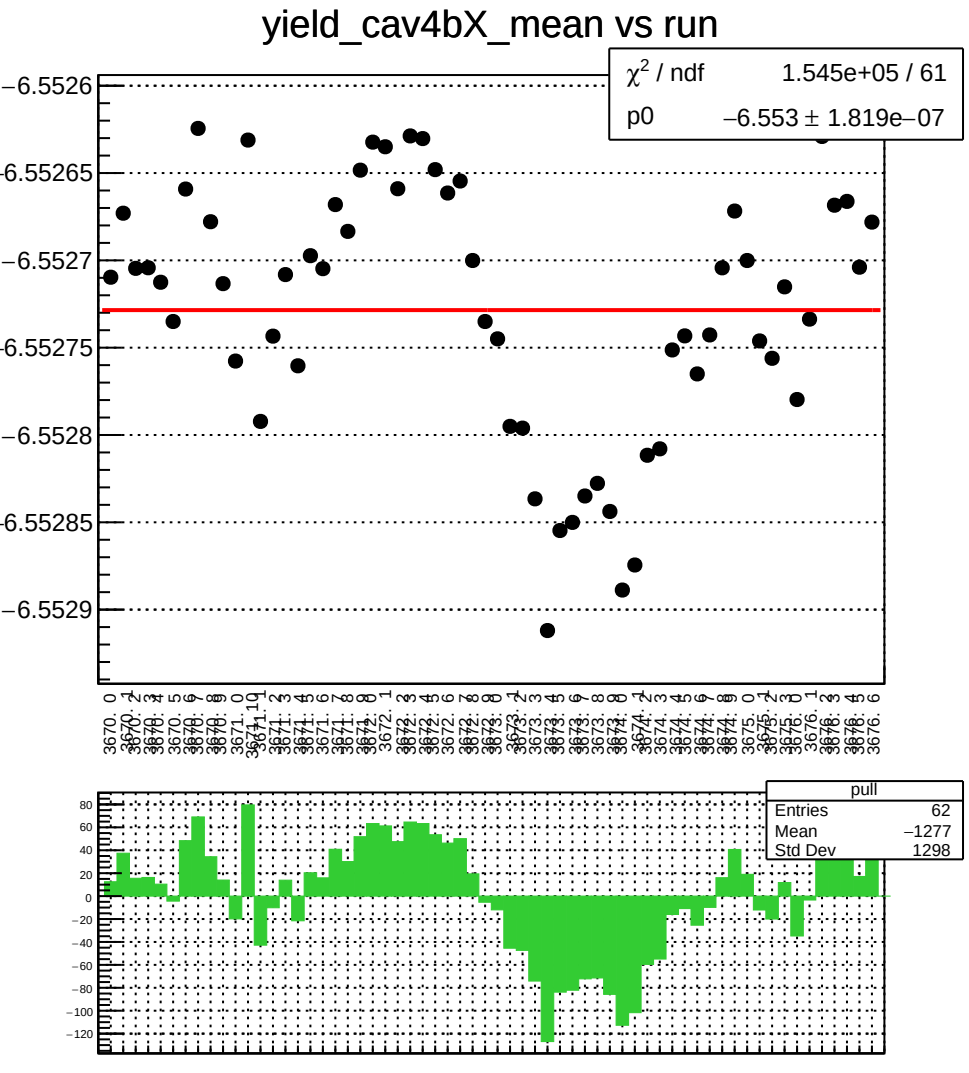

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

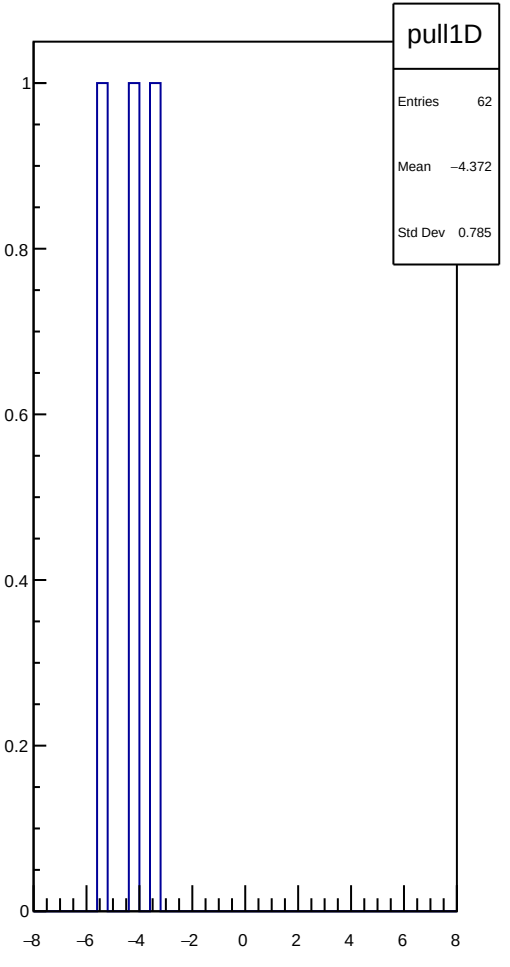

bcm_cav4cQ_ds3_avg_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

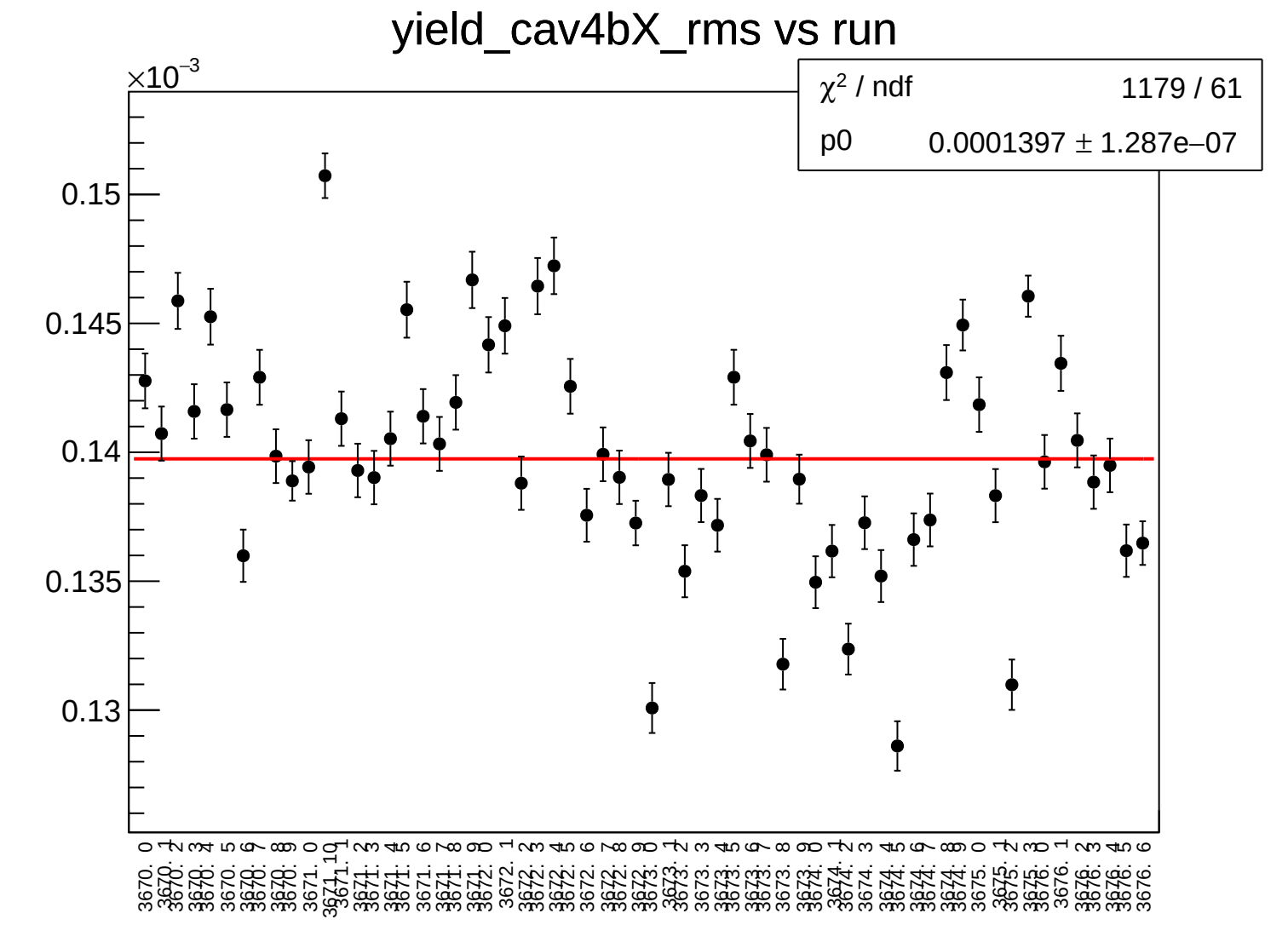

bcm_cav4cQ_ds3_dd_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

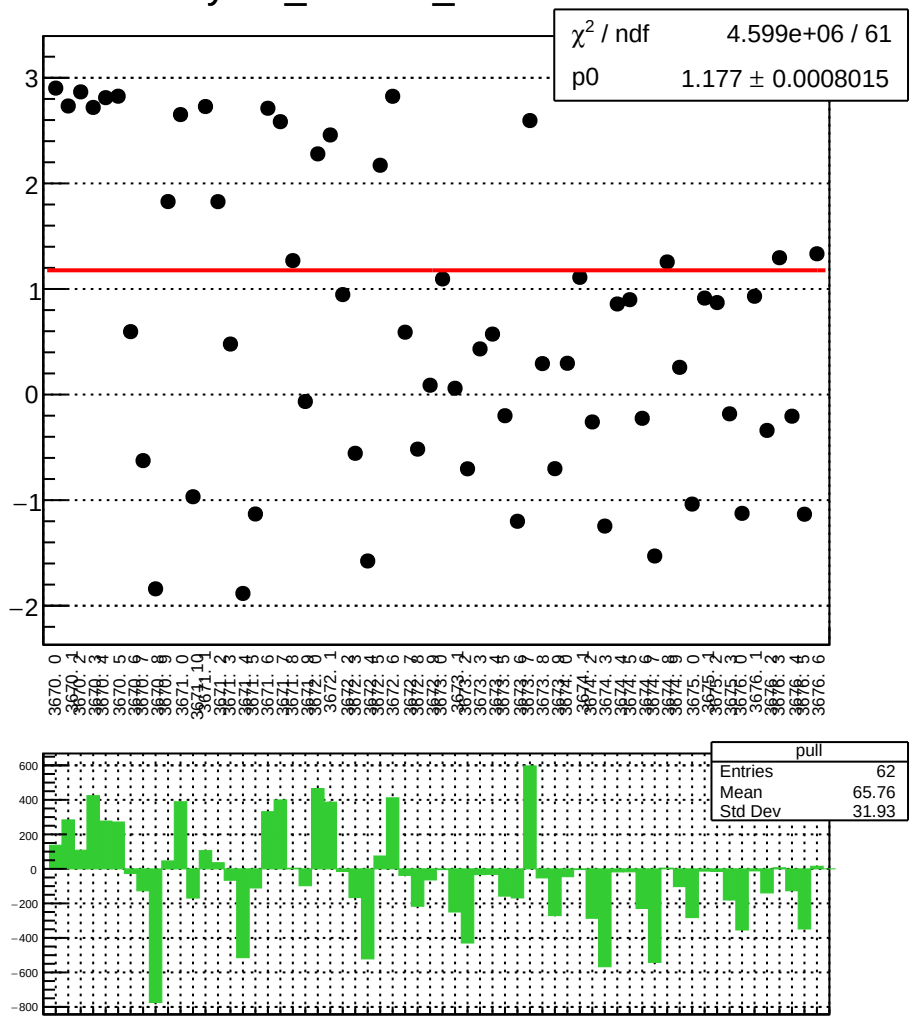

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

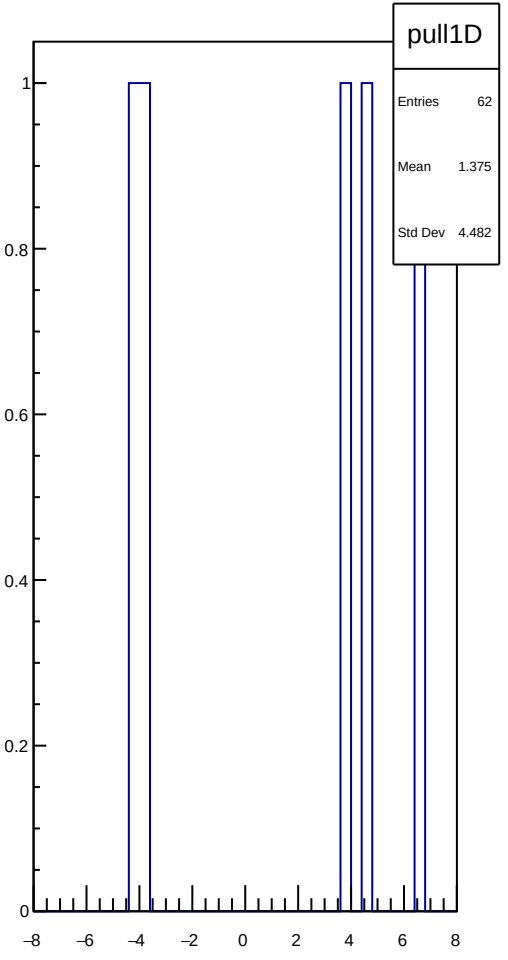

bcm_cav4cQ_ds3_dd_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

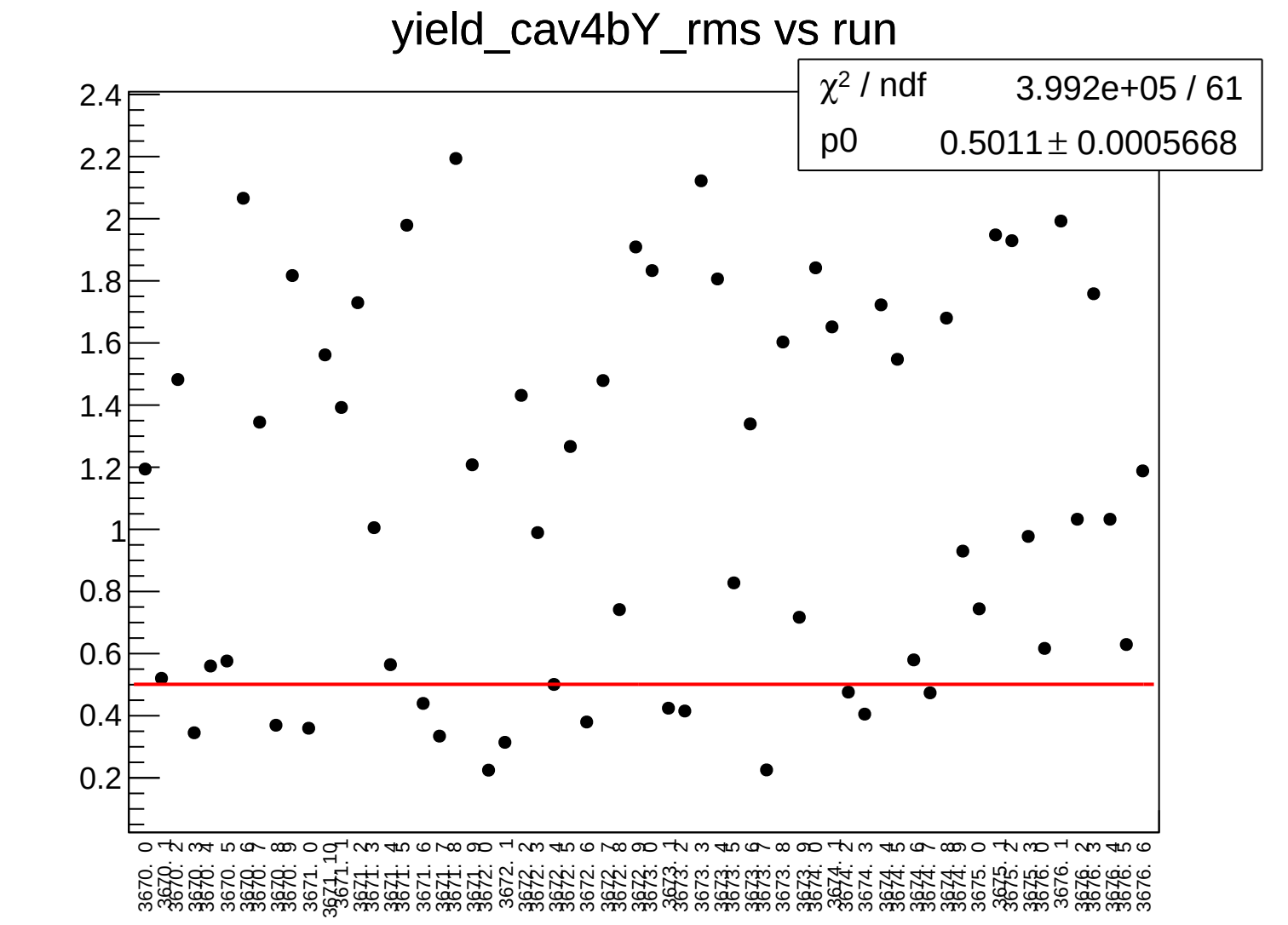

yield_cav4bX_mean vs run
χ² / ndf 1.545e+05 / 61
p0 −6.553 ± 1.819e−07
−6.5526
−6.55265
−6.5527
−6.55275
−6.5528
−6.55285
−6.5529
pull
Entries 62
Mean −1277
Std Dev 1298
80
60
40
20
0
−20
−40
−60
−80
−100
−120

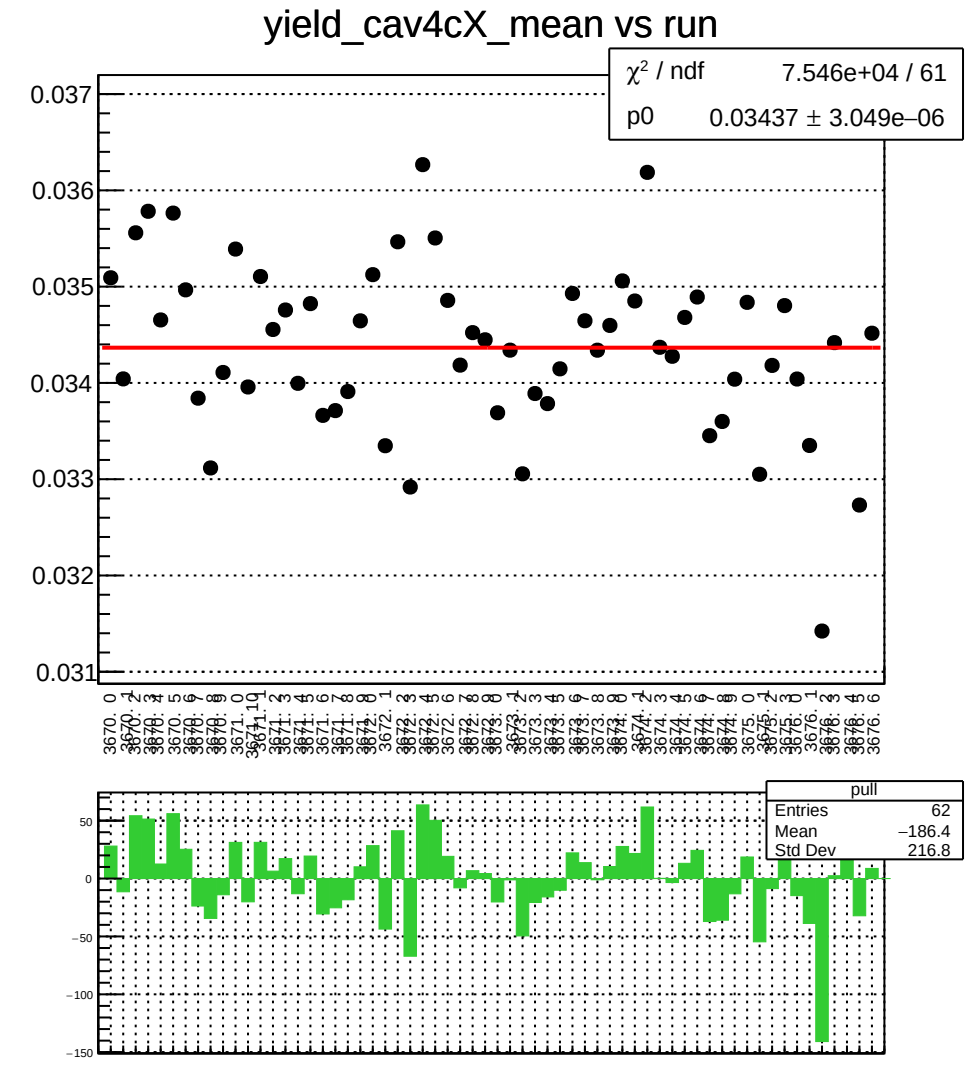

pull1D
Entries 62
Mean −4.372
Std Dev 0.785
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

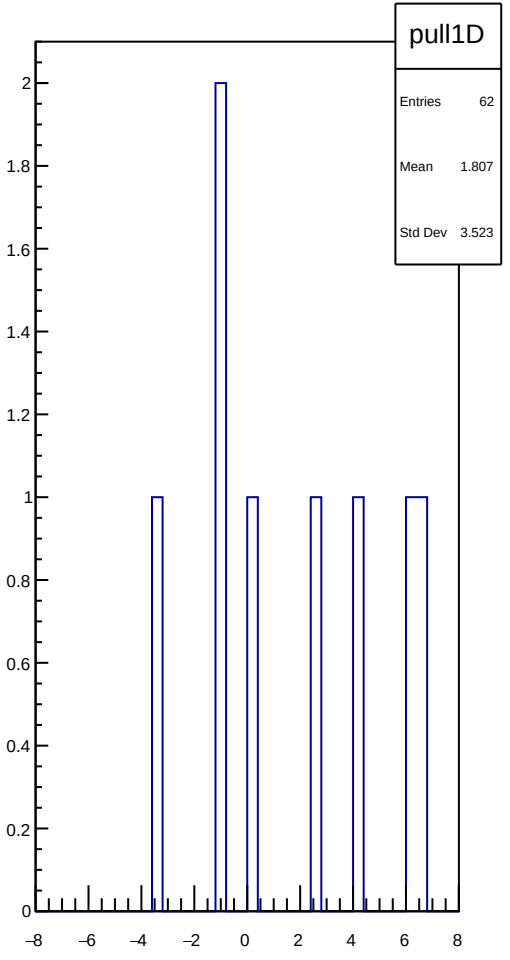

yield_cav4bX_rms vs run
×10⁻³
χ² / ndf 1179 / 61
p0 0.0001397 ± 1.287e−07
0.15
0.145
0.14
0.135
0.13

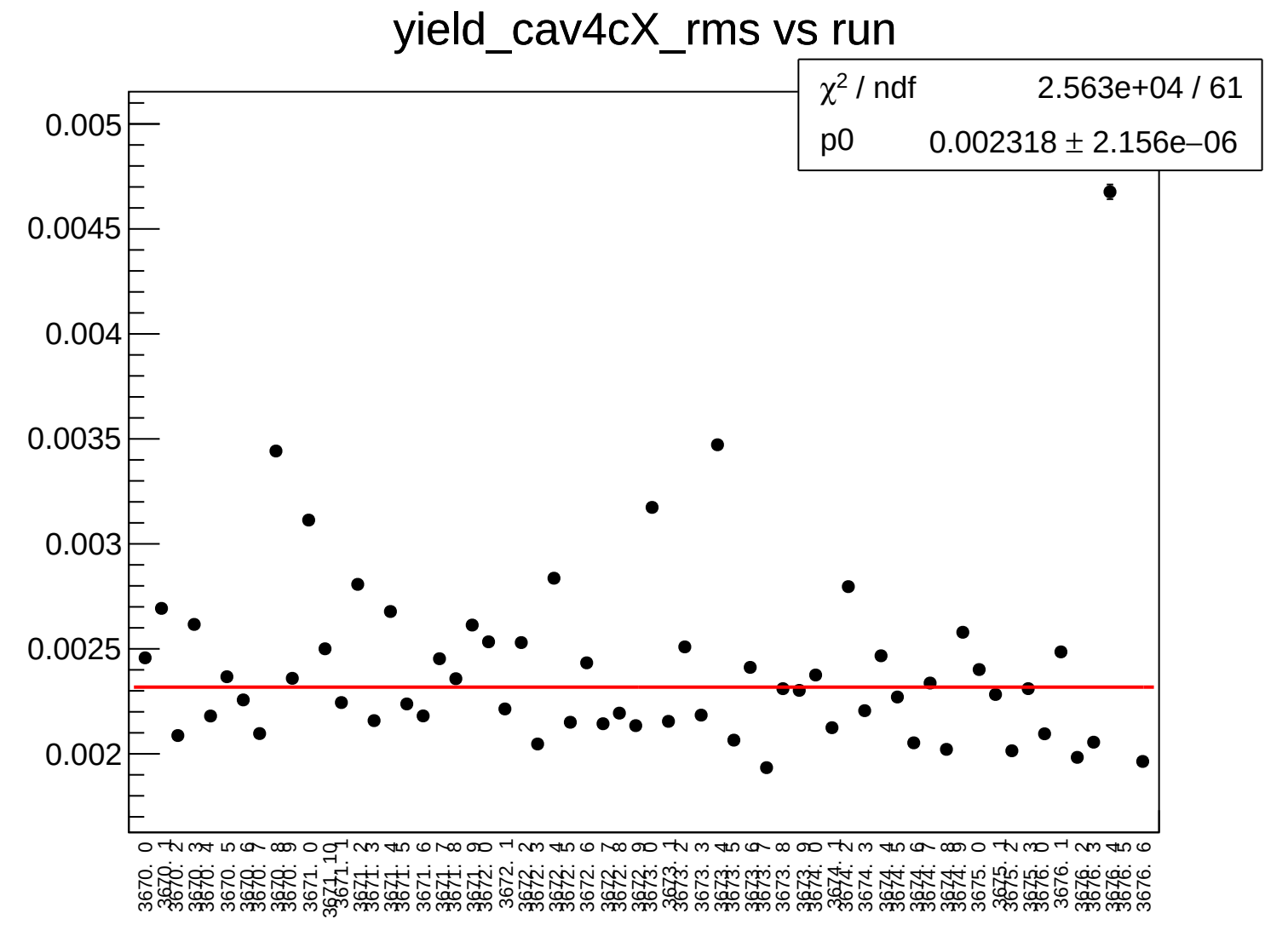

yield_cav4bY_mean vs run
χ² / ndf 4.599e+06 / 61
p0 1.177 ± 0.0008015
pull
Entries 62
Mean 65.76
Std Dev 31.93

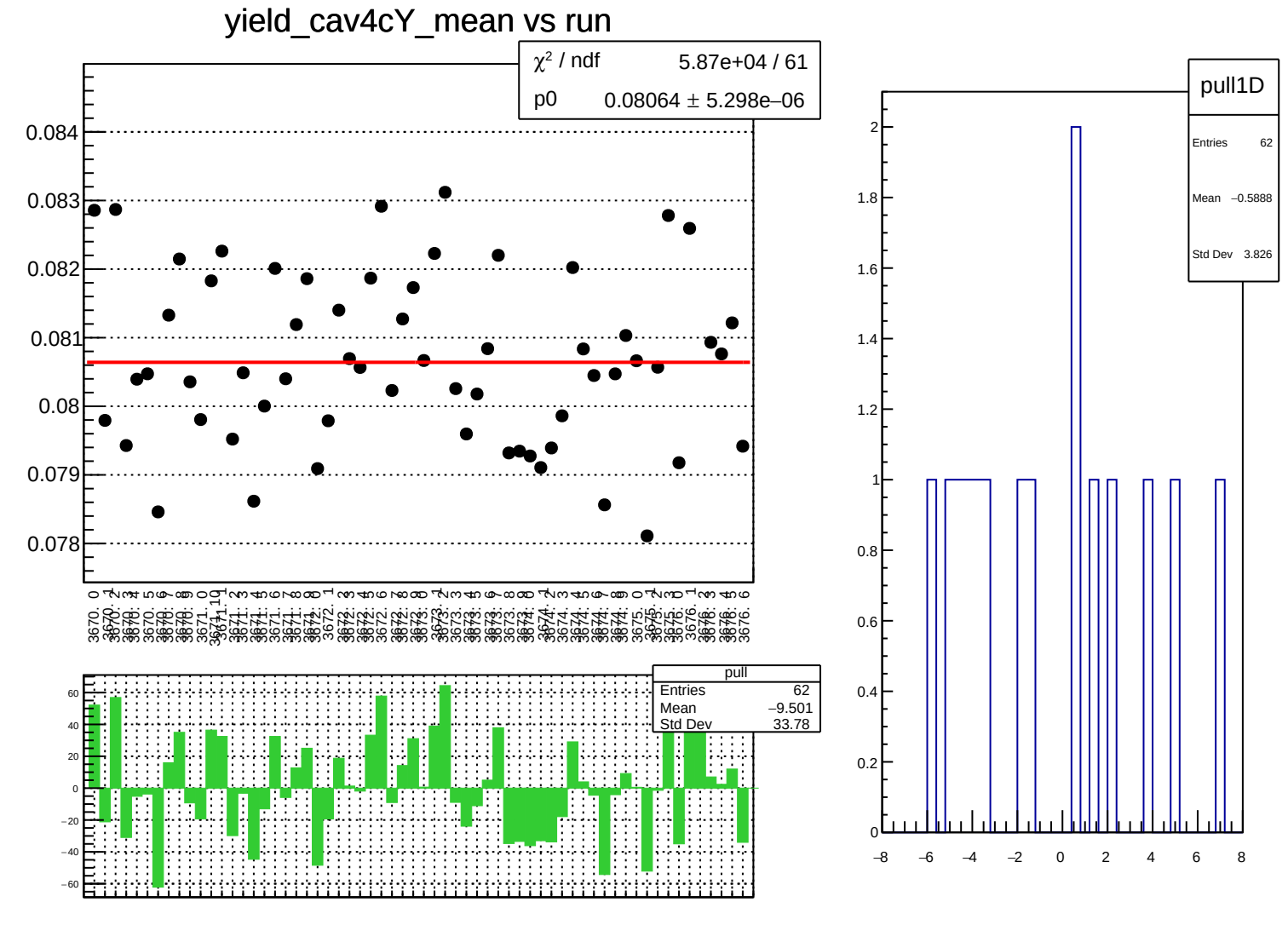

pull1D
Entries 62
Mean 1.375
Std Dev 4.482

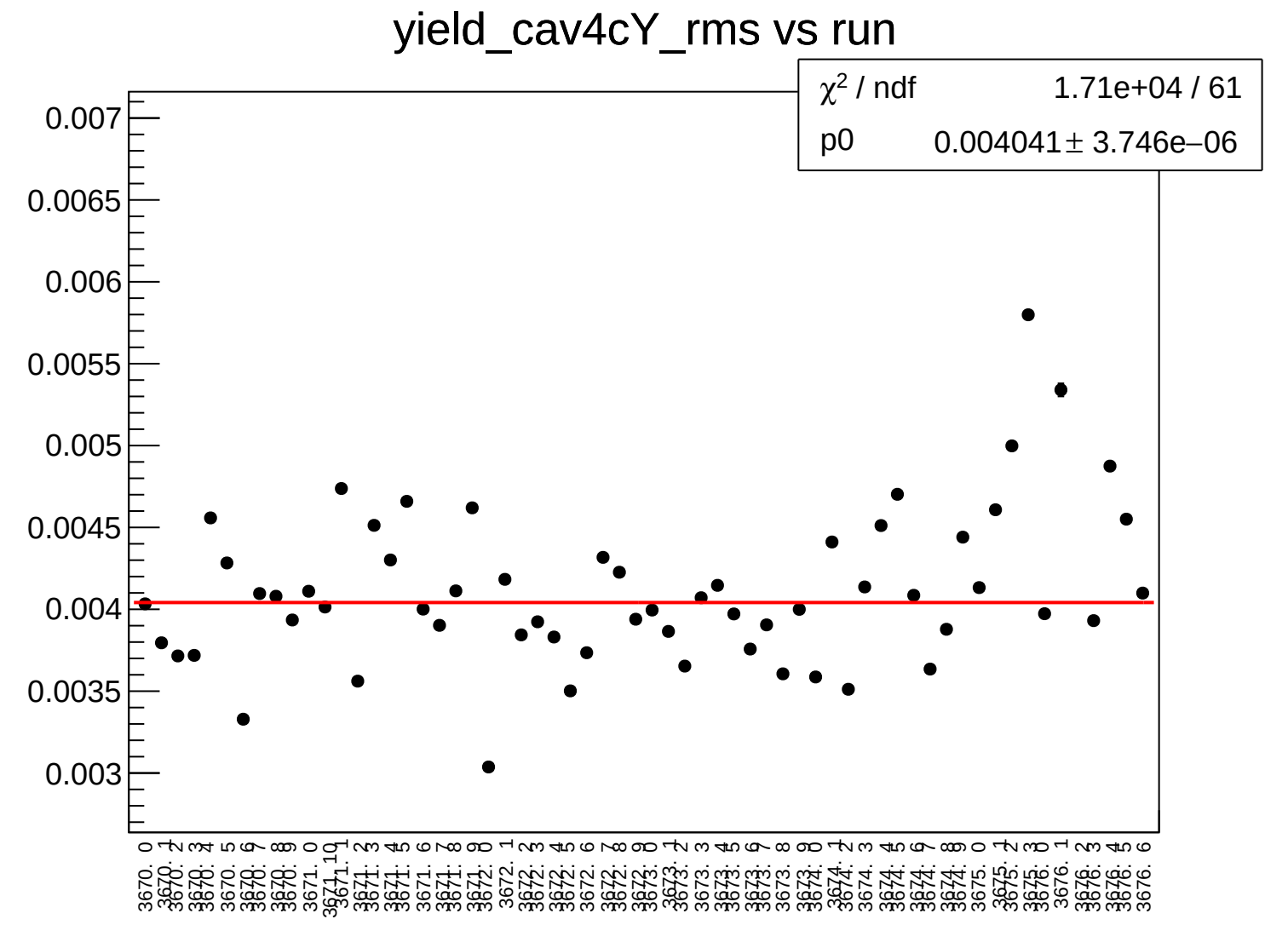

yield_cav4bY_rms vs run
χ² / ndf 3.992e+05 / 61
p0 0.5011 ± 0.0005668
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

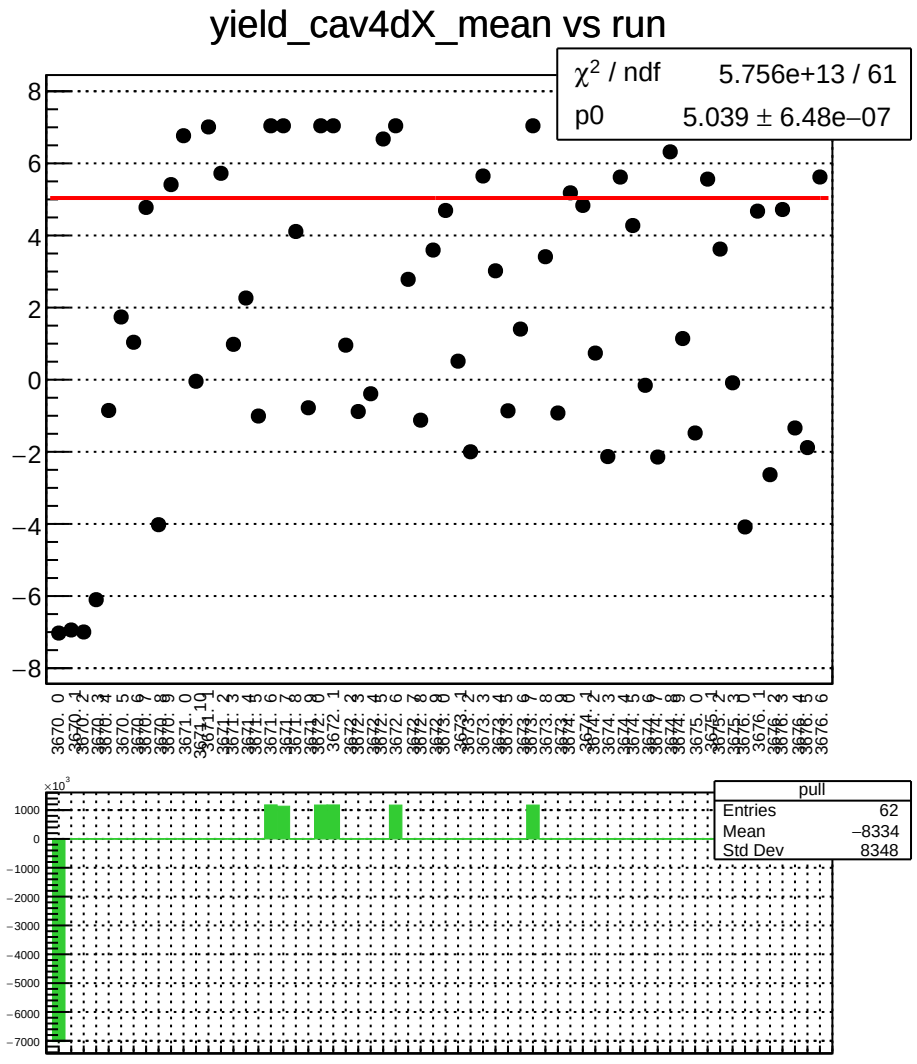

yield_cav4cX_mean vs run
χ² / ndf 7.546e+04 / 61
p0 0.03437 ± 3.049e−06
0.037
0.036
0.035
0.034
0.033
0.032
0.031
pull
Entries 62
Mean −186.4
Std Dev 216.8
50
0
−50
−100
−150

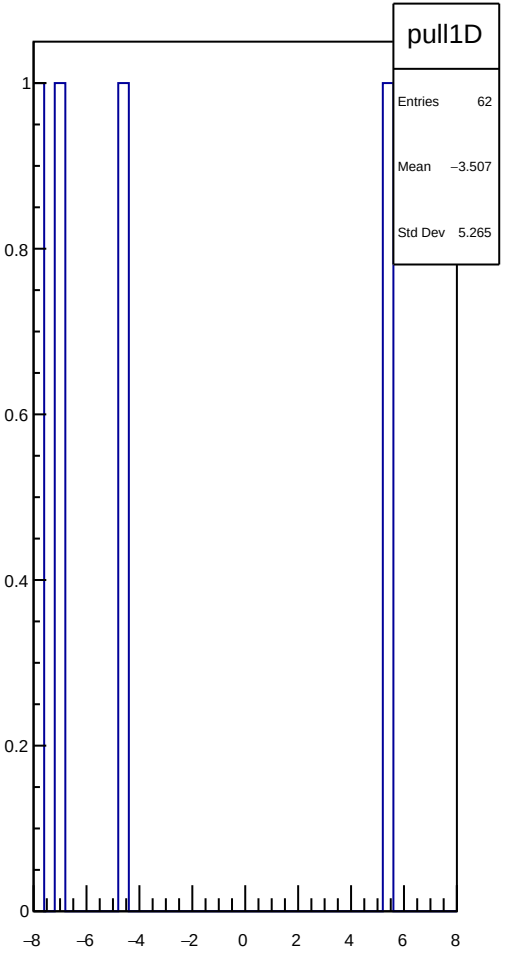

pull1D
Entries 62
Mean 1.807
Std Dev 3.523
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

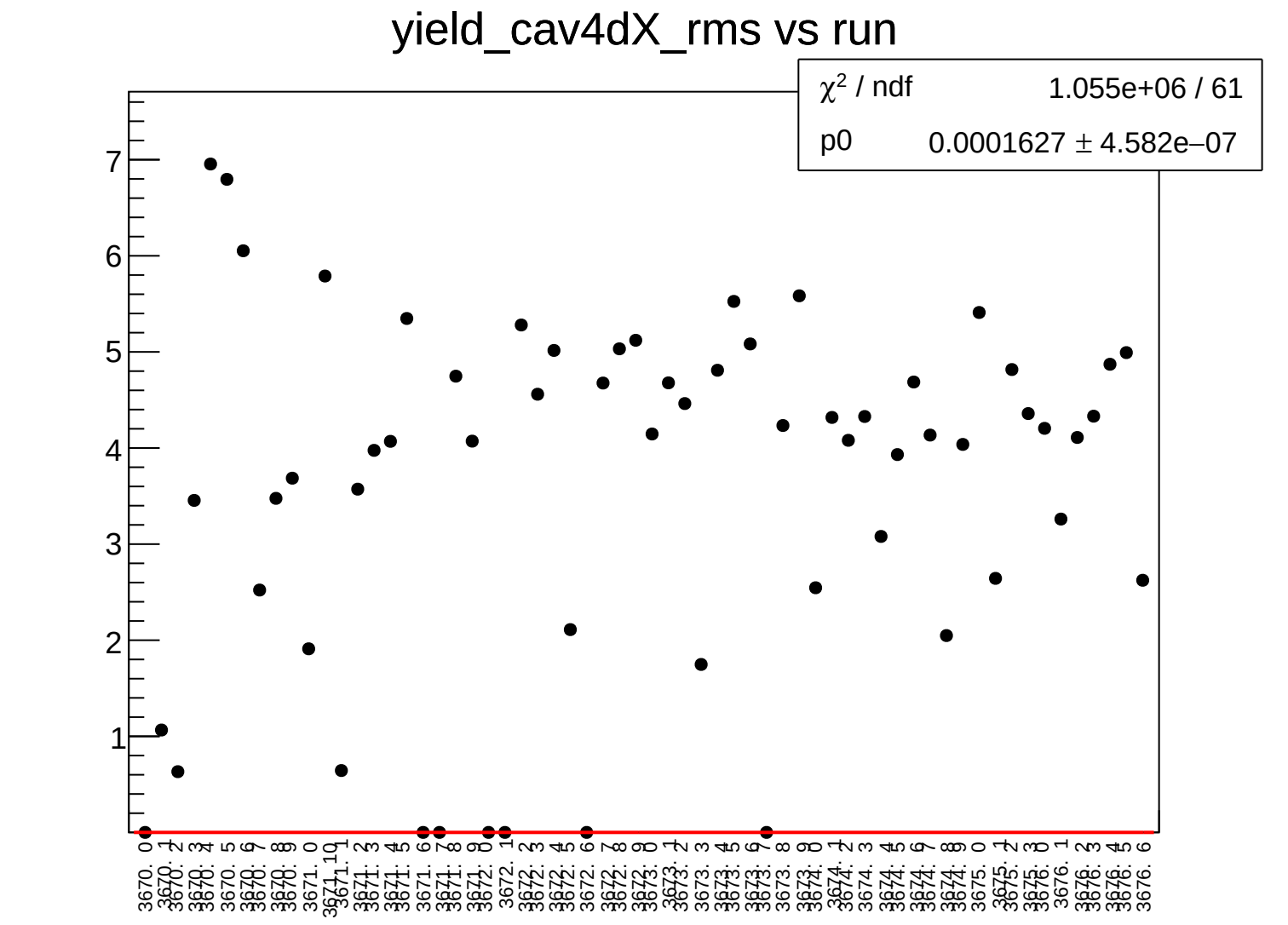

yield_cav4cX_rms vs run
χ^2 / ndf 2.563e+04 / 61
p0 0.002318 ± 2.156e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

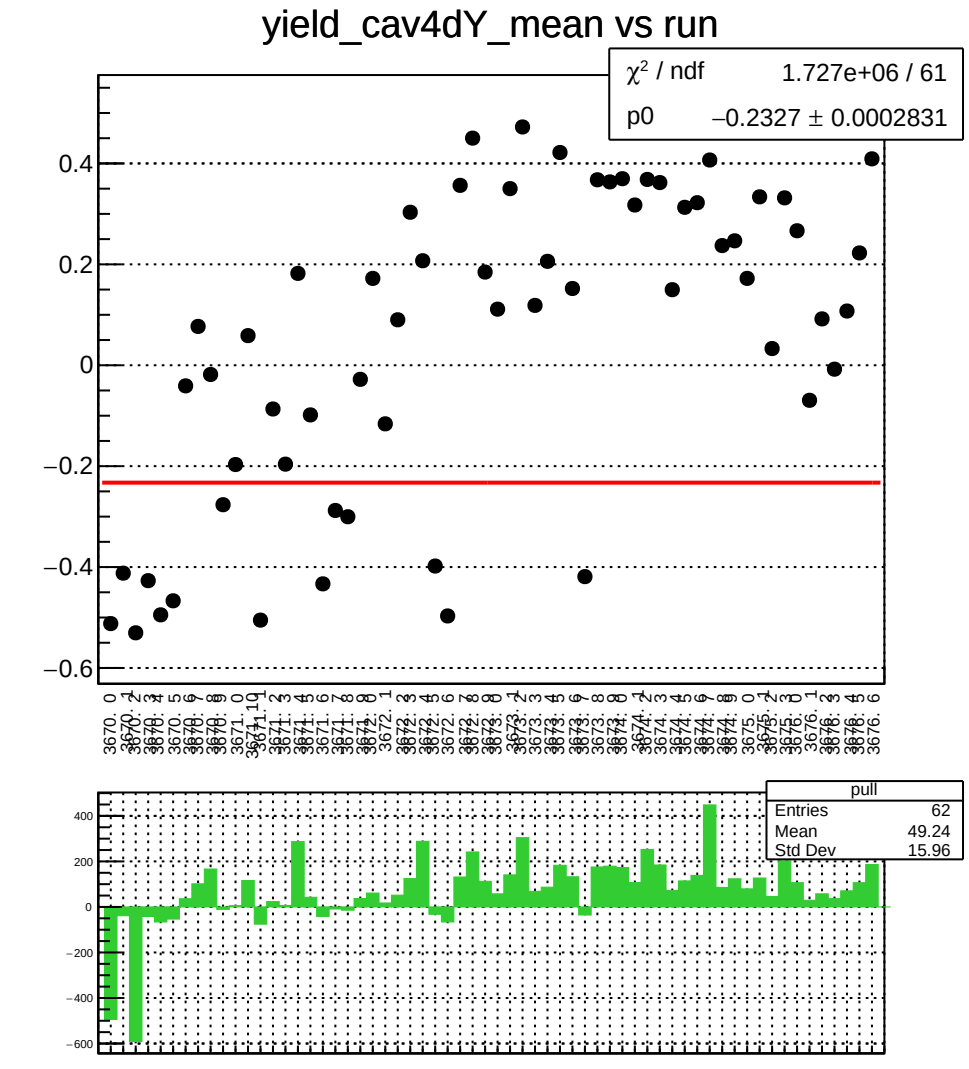

yield_cav4cY_mean vs run
χ² / ndf 5.87e+04 / 61
p0 0.08064 ± 5.298e−06
0.084
0.083
0.082
0.081
0.08
0.079
0.078
pull
Entries 62
Mean −9.501
Std Dev 33.78
60
40
20
0
−20
−40
−60
pull1D
Entries 62
Mean −0.5888
Std Dev 3.826
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

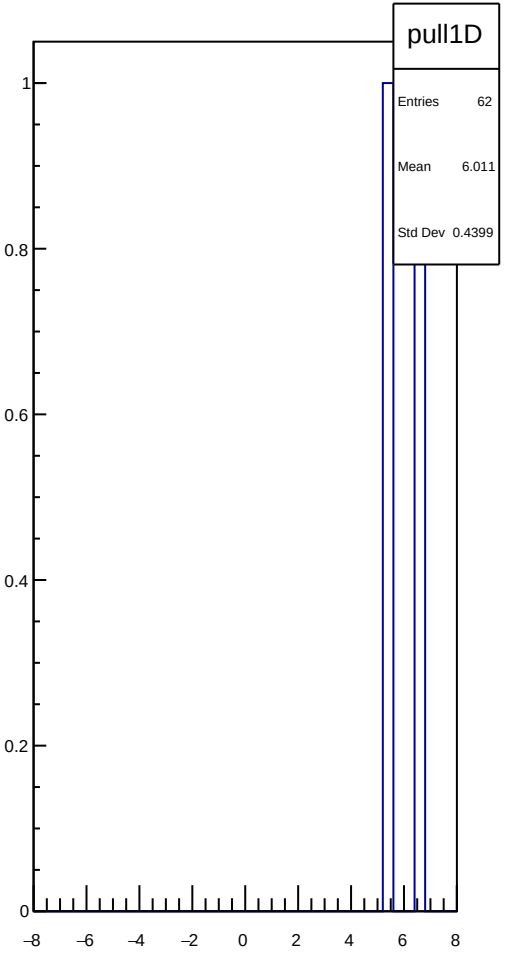

yield_cav4cY_rms vs run
χ² / ndf 1.71e+04 / 61
p0 0.004041 ± 3.746e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

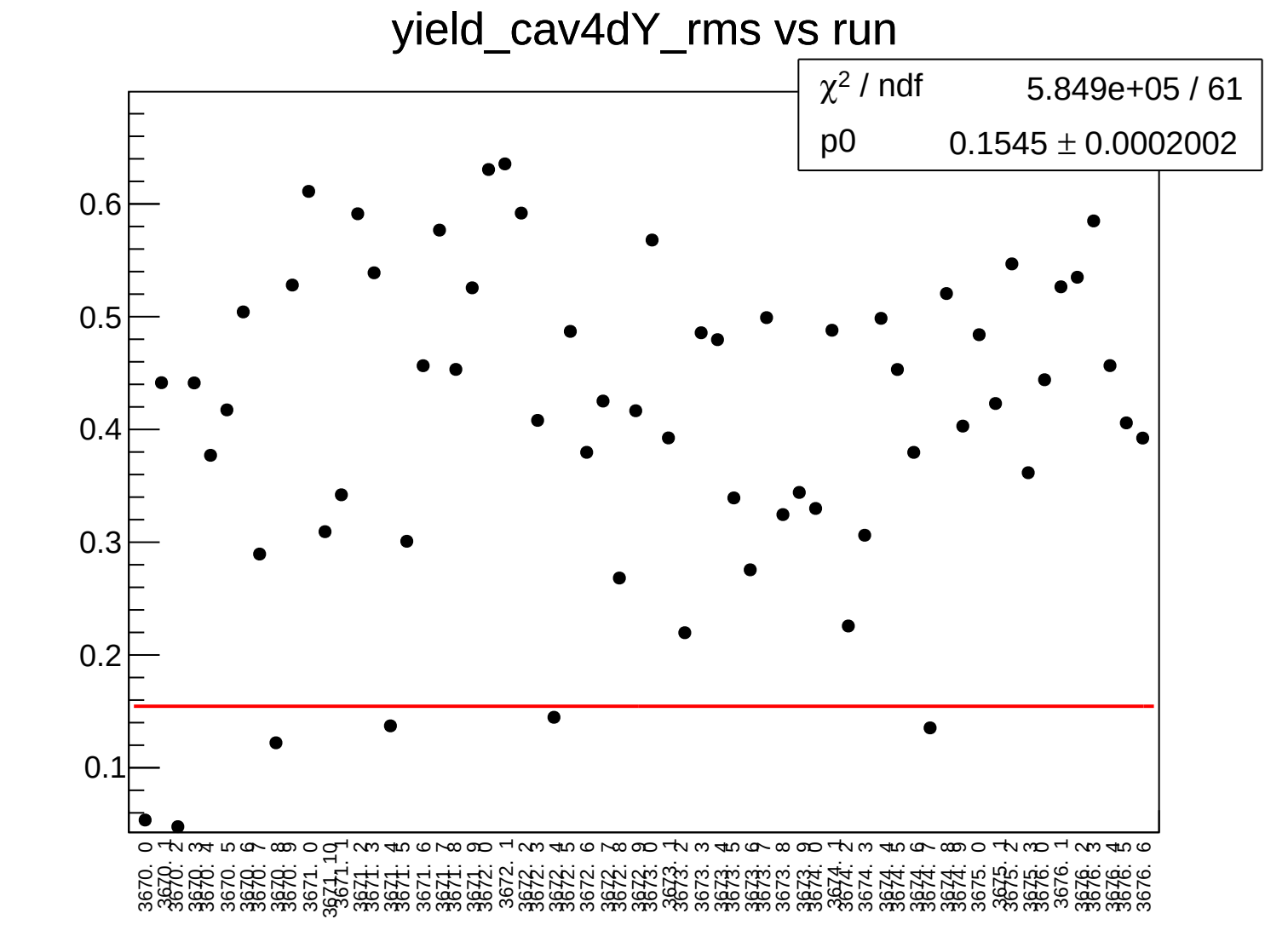

yield_cav4dX_mean vs run
χ² / ndf 5.756e+13 / 61
p0 5.039 ± 6.48e−07
pull
Entries 62
Mean −8334
Std Dev 8348

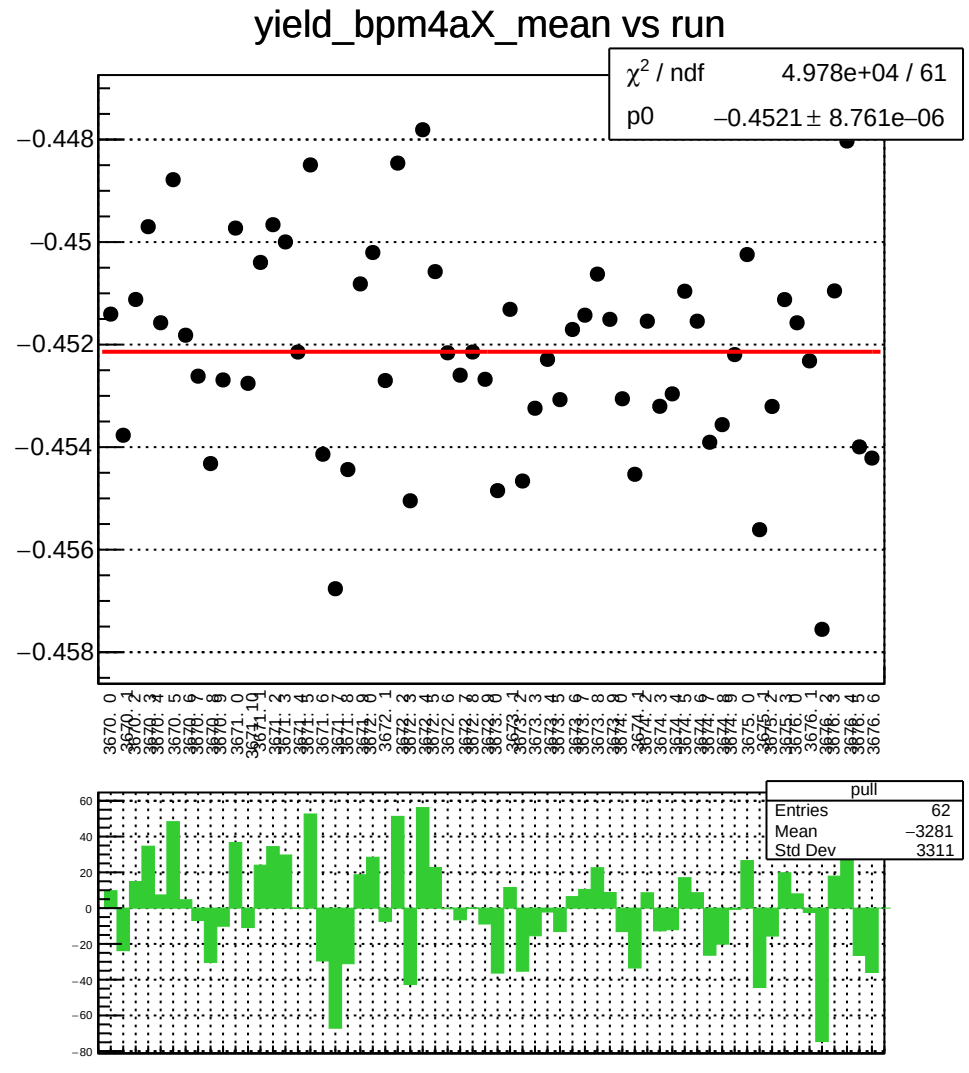

pull1D
Entries 62
Mean −3.507
Std Dev 5.265

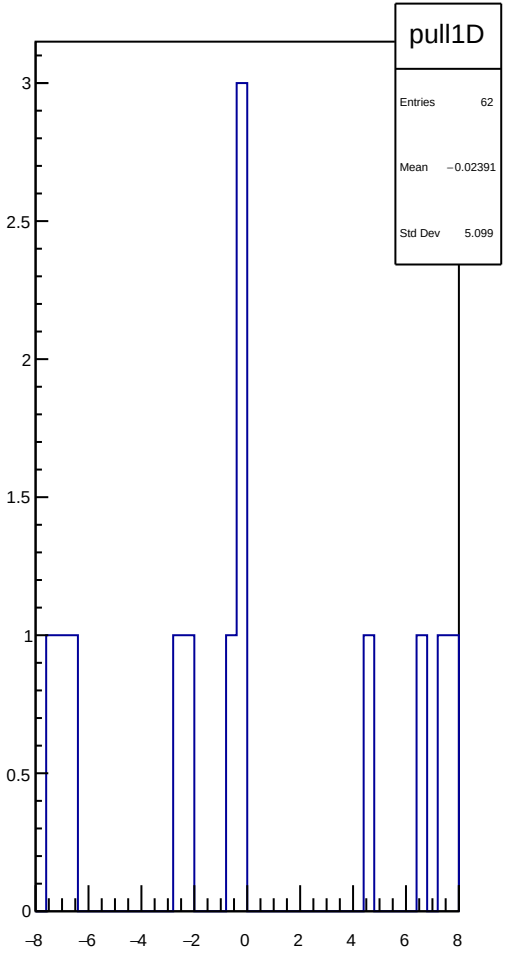

yield_cav4dX_rms vs run
χ² / ndf 1.055e+06 / 61
p0 0.0001627 ± 4.582e−07
7
6
5
4
3
2
1

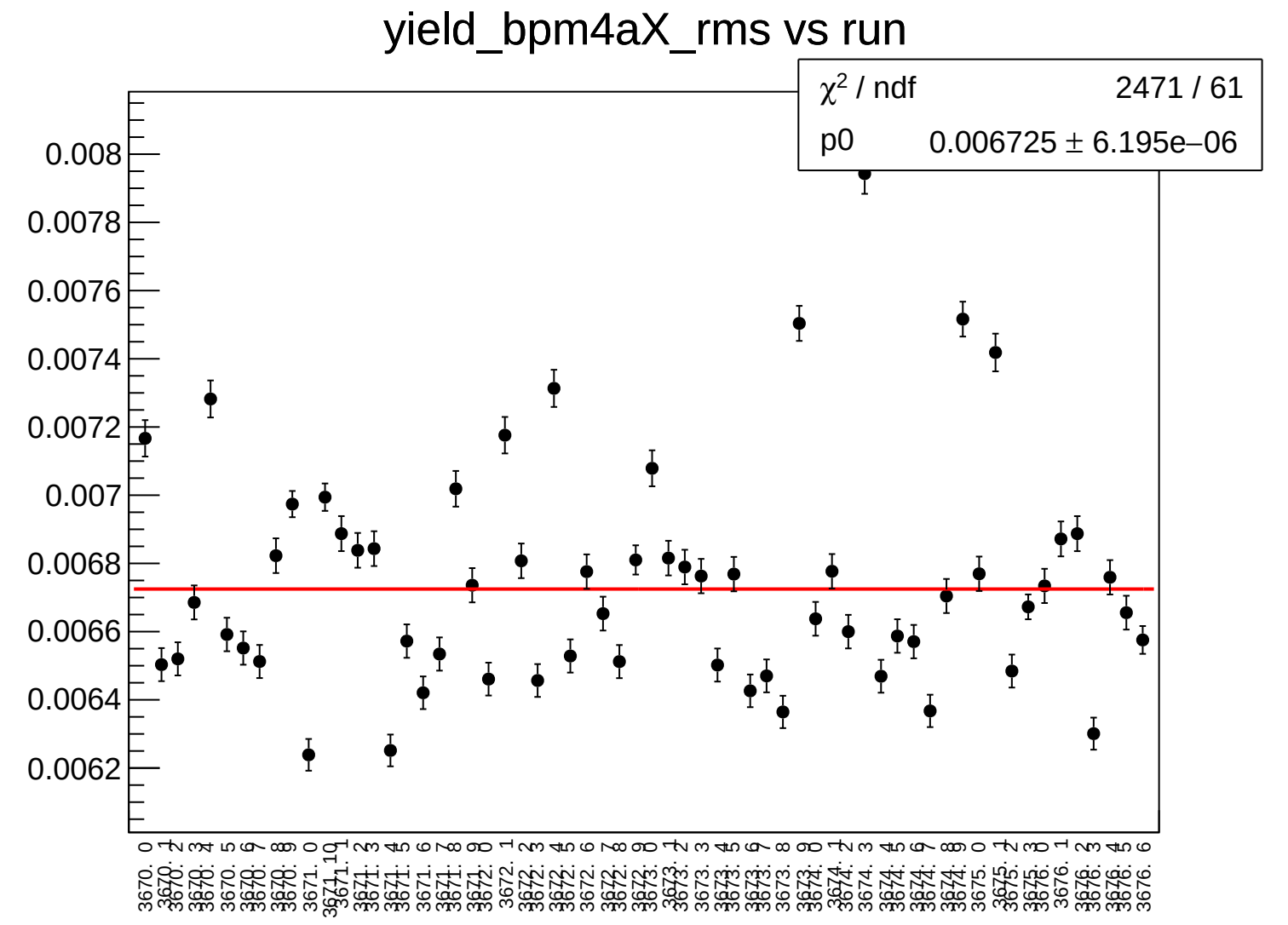

yield_cav4dY_mean vs run
χ² / ndf 1.727e+06 / 61
p0 −0.2327 ± 0.0002831
pull
Entries 62
Mean 49.24
Std Dev 15.96

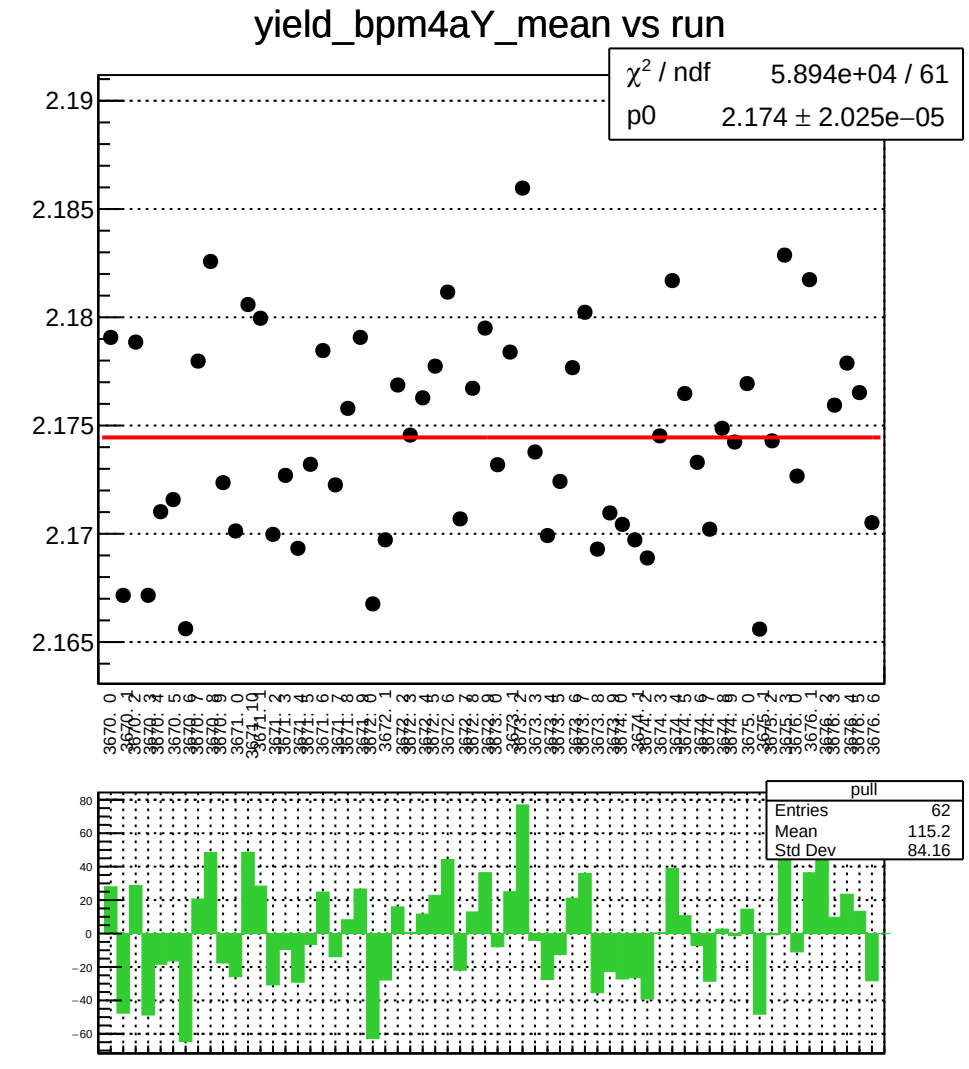

pull1D
Entries 62
Mean 6.011
Std Dev 0.4399

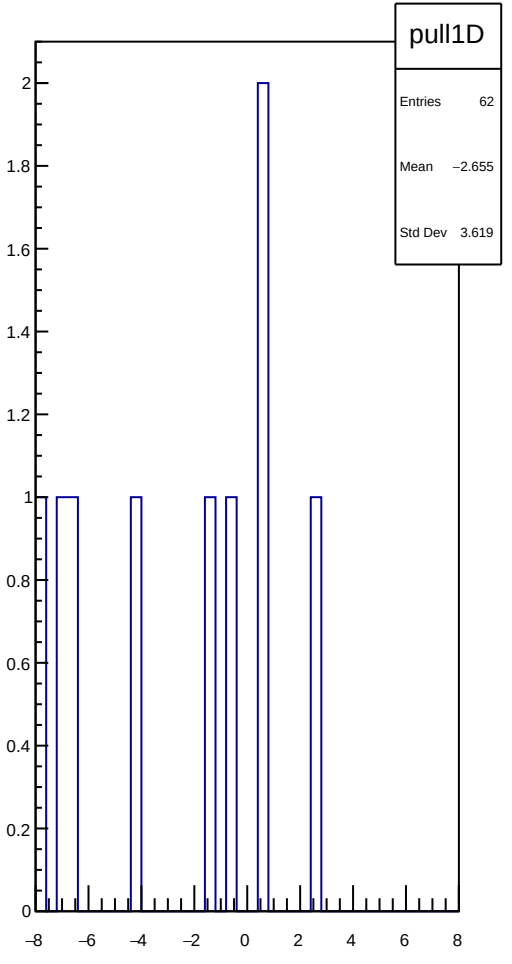

yield_cav4dY_rms vs run
χ² / ndf 5.849e+05 / 61
p0 0.1545 ± 0.0002002
0.6
0.5
0.4
0.3
0.2
0.1

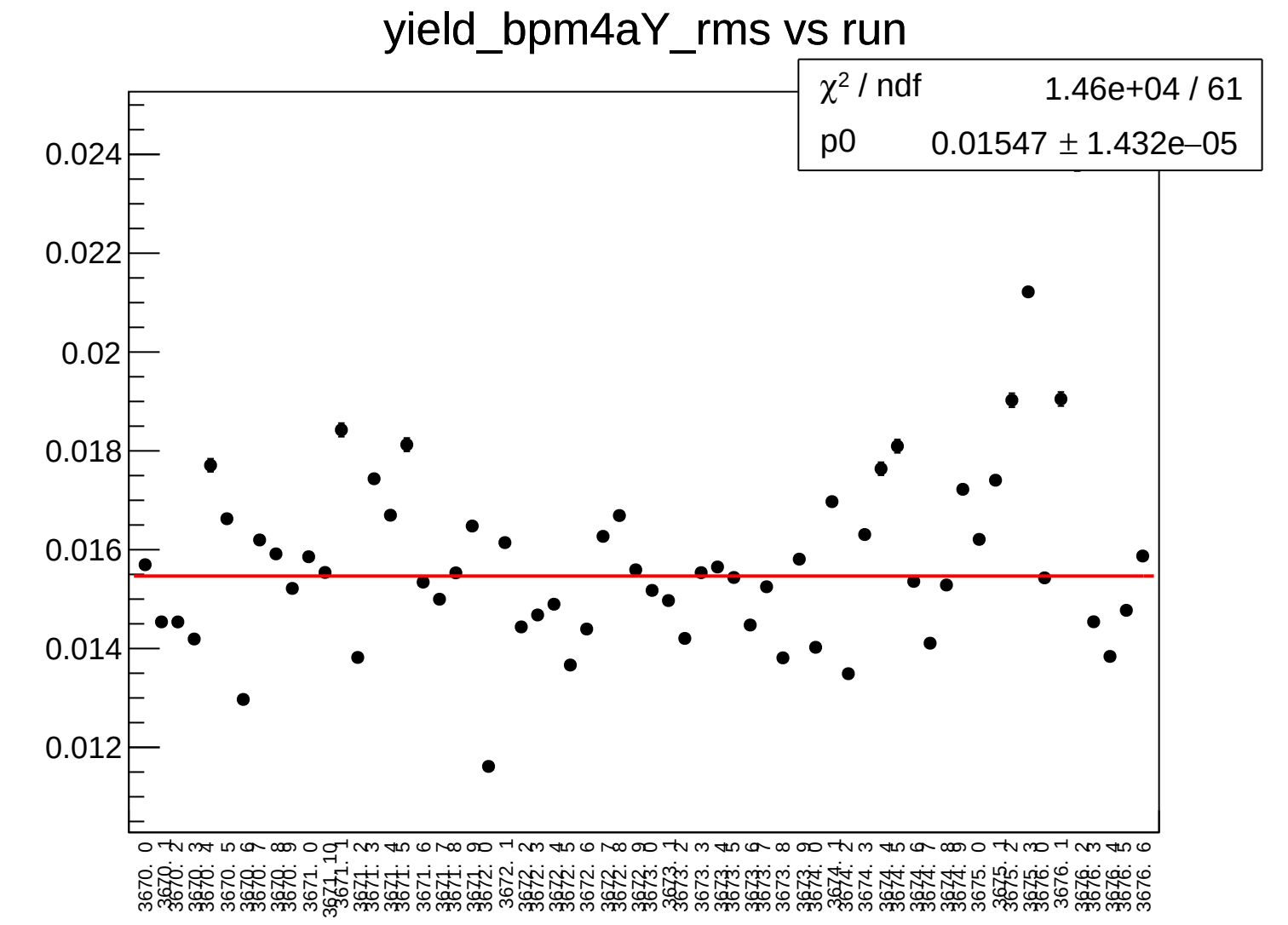

yield_bpm4aX_mean vs run
χ² / ndf 4.978e+04 / 61
p0 −0.4521 ± 8.761e−06
−0.448
−0.45
−0.452
−0.454
−0.456
−0.458
pull
Entries 62
Mean −3281
Std Dev 3311
60
40
20
0
−20
−40
−60
−80

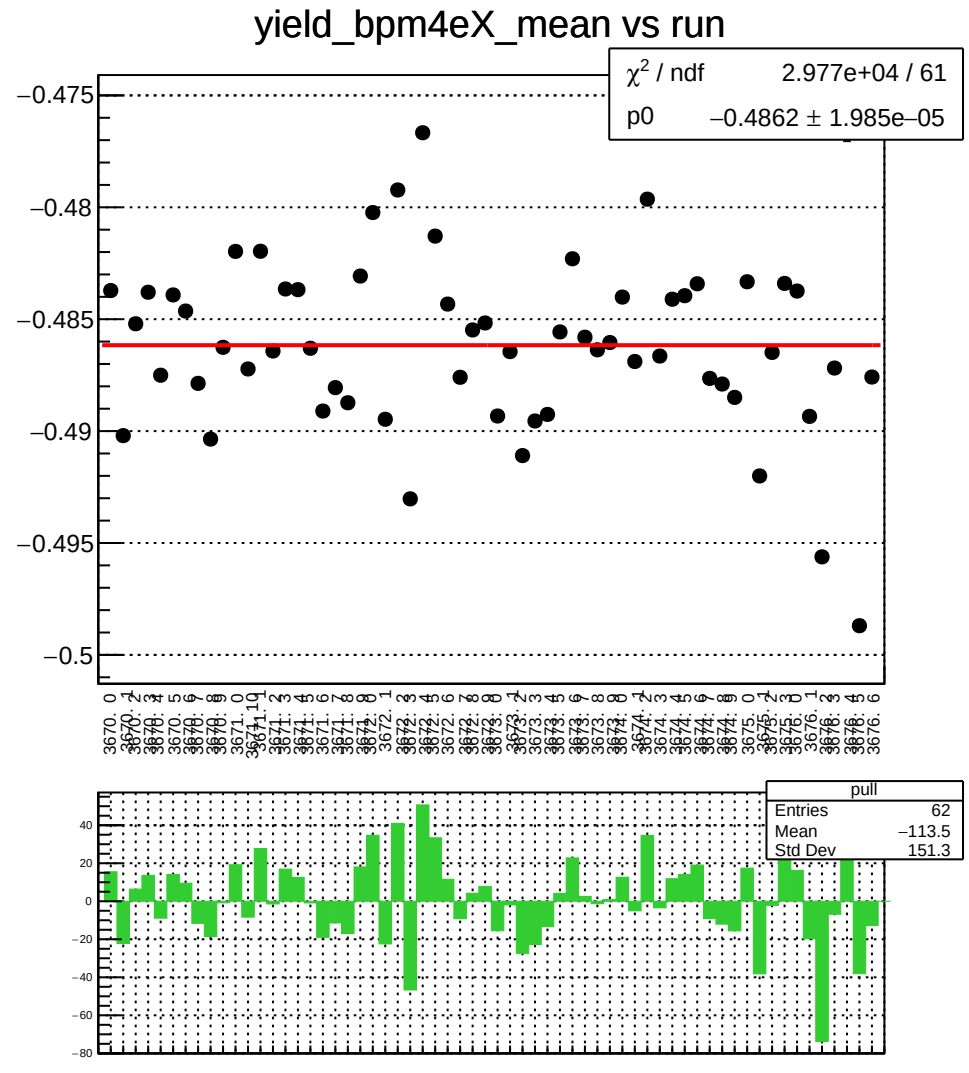

pull1D
Entries 62
Mean −0.02391
Std Dev 5.099
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

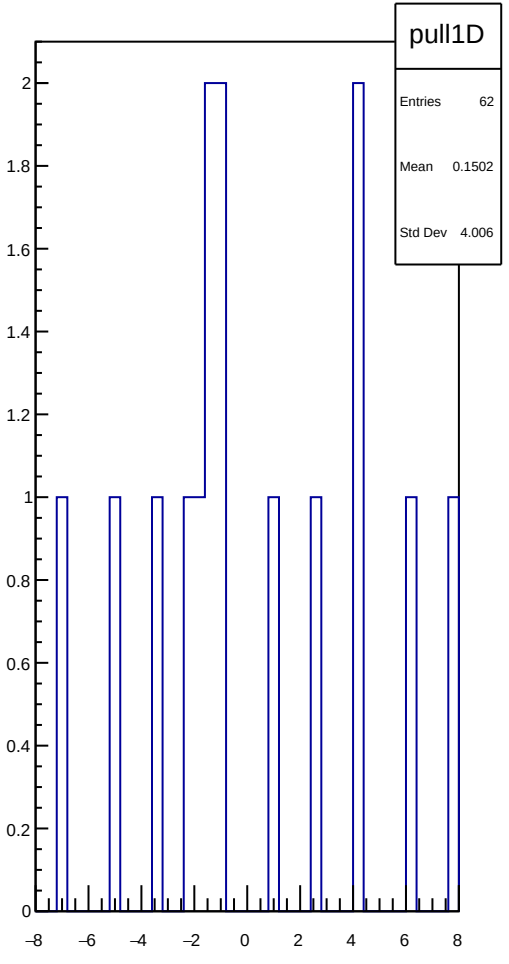

yield_bpm4aX_rms vs run
χ² / ndf 2471 / 61
p0 0.006725 ± 6.195e−06
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

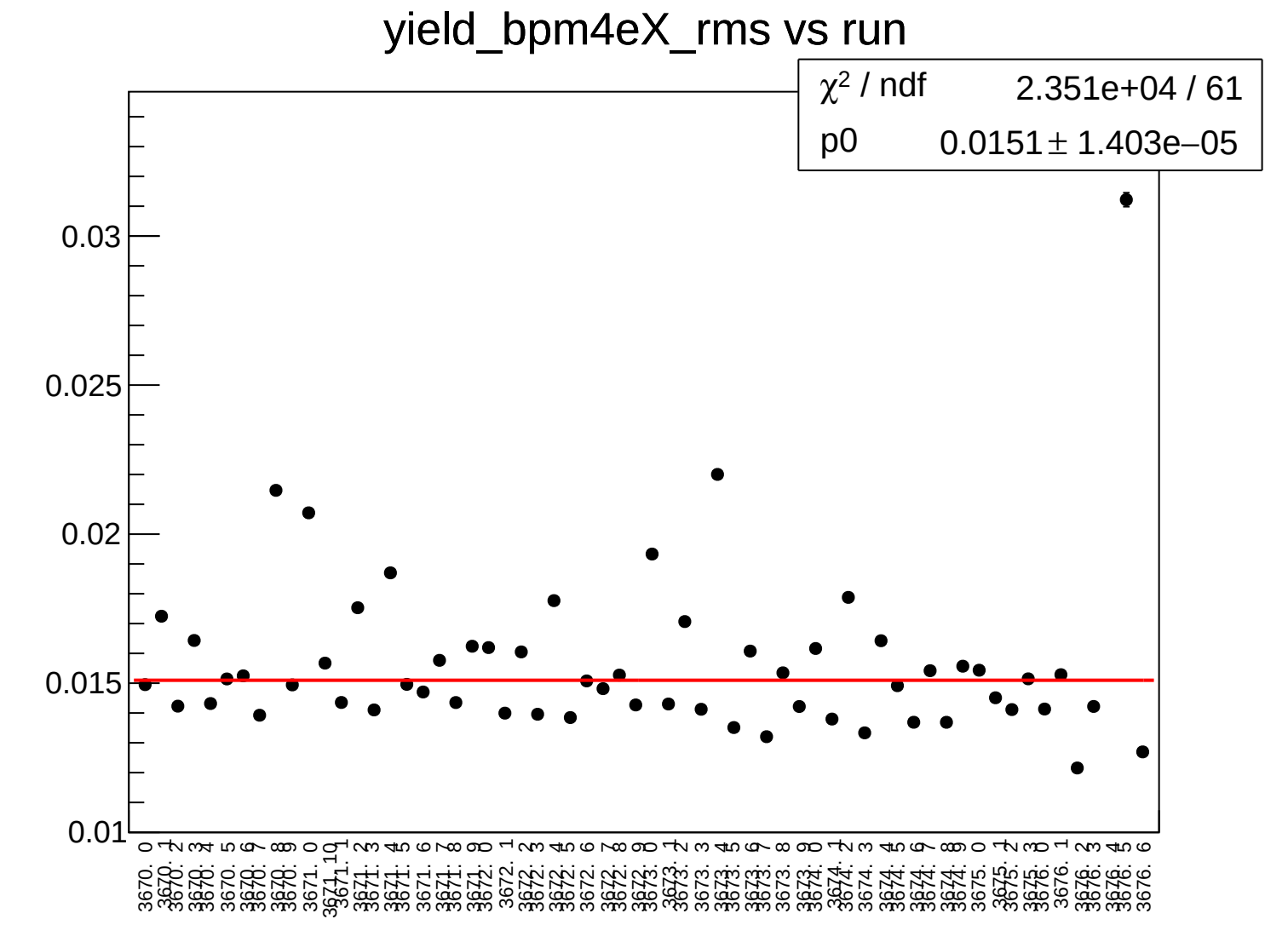

yield_bpm4aY_mean vs run
χ² / ndf 5.894e+04 / 61
p0 2.174 ± 2.025e−05
2.19
2.185
2.18
2.175
2.17
2.165
pull
Entries 62
Mean 115.2
Std Dev 84.16
80
60
40
20
0
−20
−40
−60

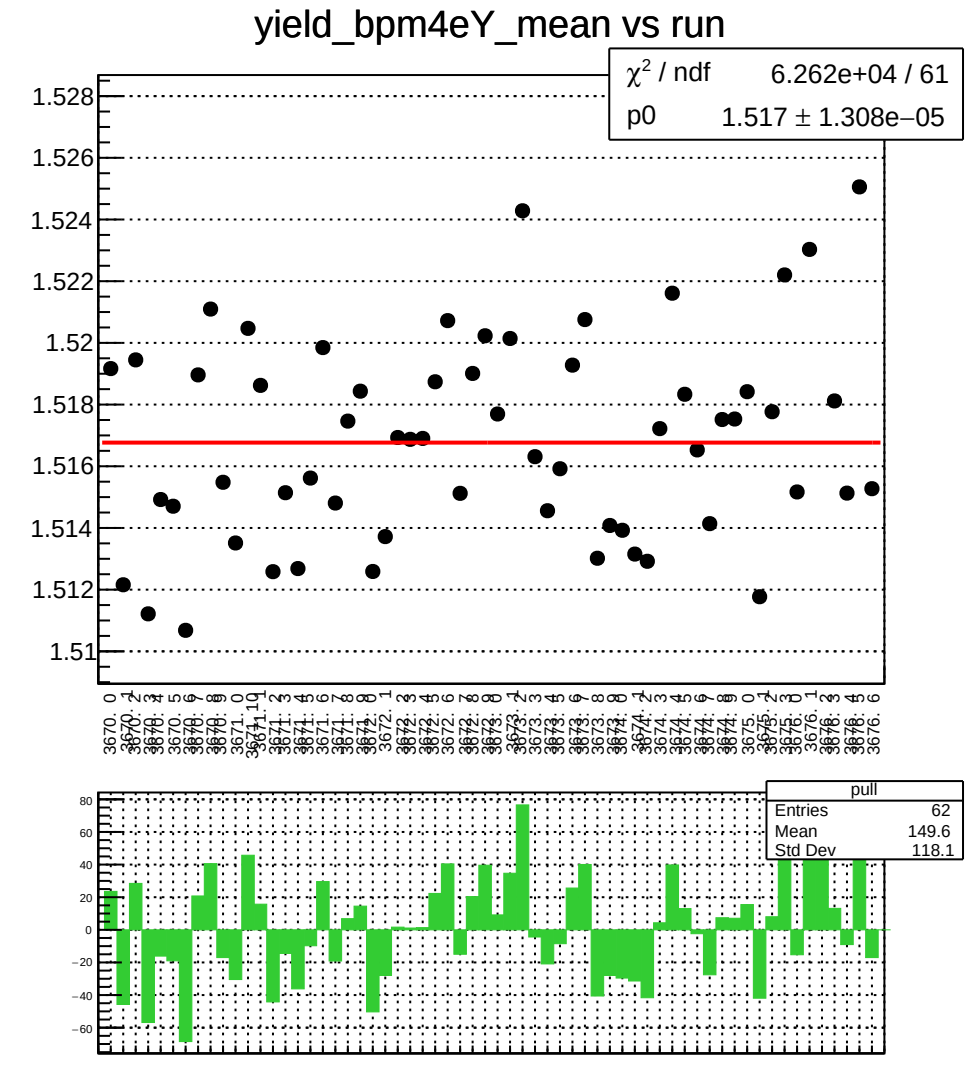

pull1D
Entries 62
Mean −2.655
Std Dev 3.619
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

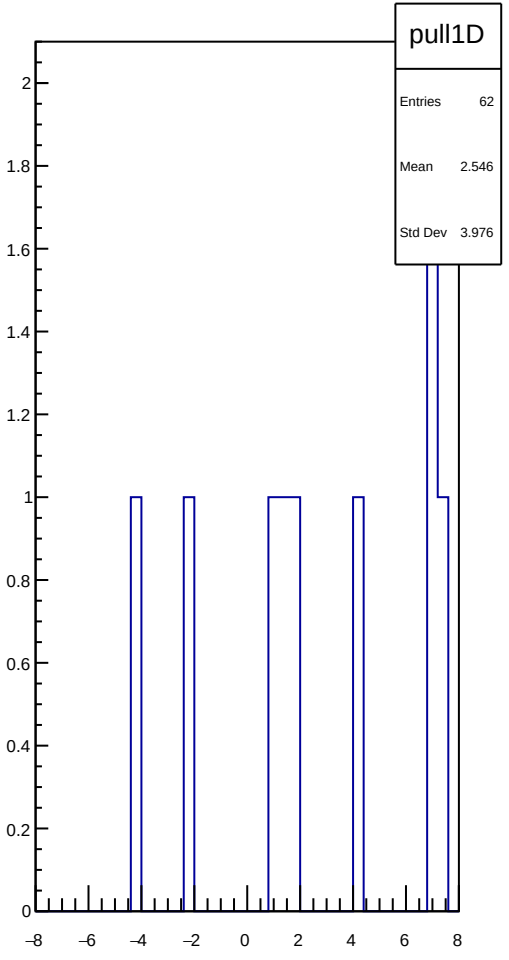

yield_bpm4aY_rms vs run
χ² / ndf 1.46e+04 / 61
p0 0.01547 ± 1.432e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

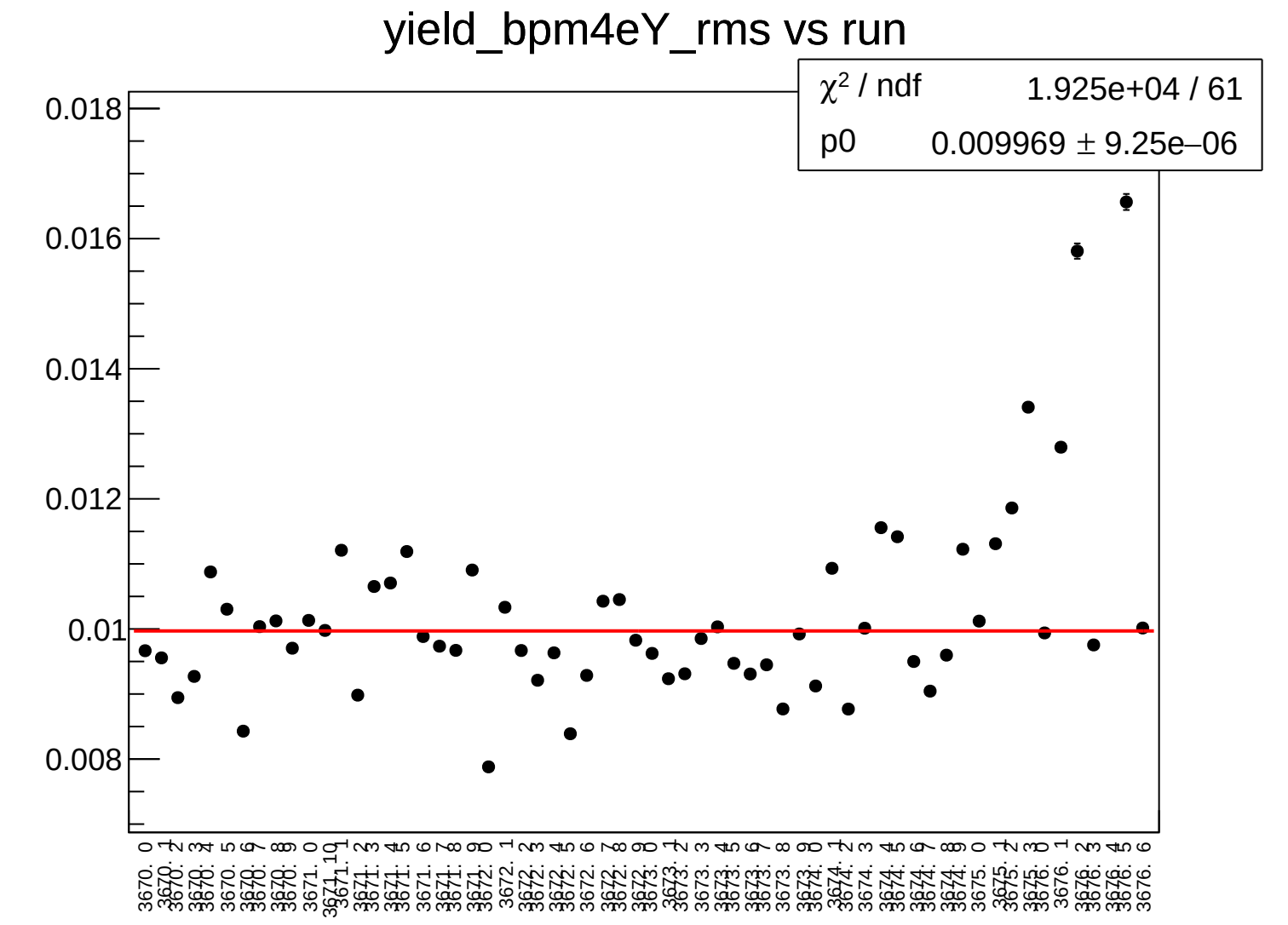

yield_bpm4eX_mean vs run
χ² / ndf 2.977e+04 / 61
p0 −0.4862 ± 1.985e−05
−0.475
−0.48
−0.485
−0.49
−0.495
−0.5
pull
Entries 62
Mean −113.5
Std Dev 151.3
40
20
0
−20
−40
−60
−80

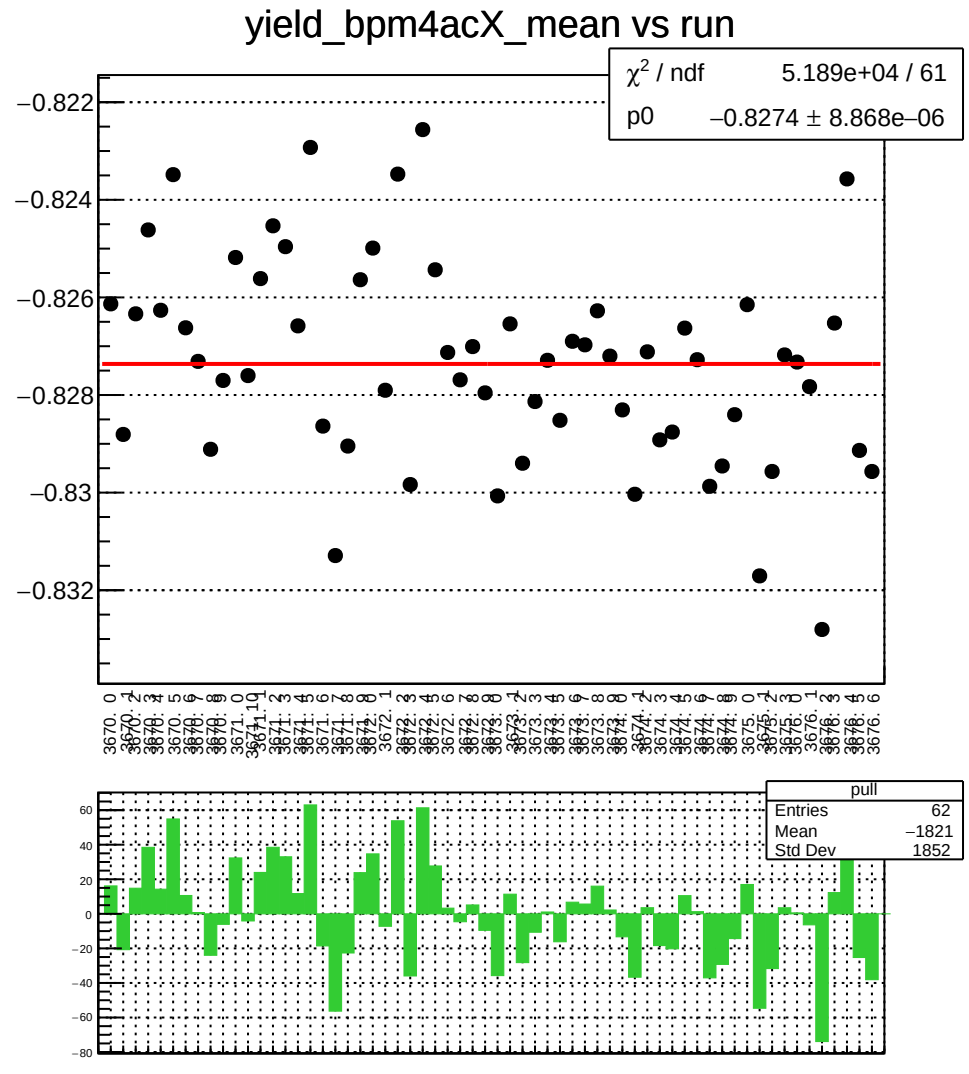

pull1D
Entries 62
Mean 0.1502
Std Dev 4.006
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

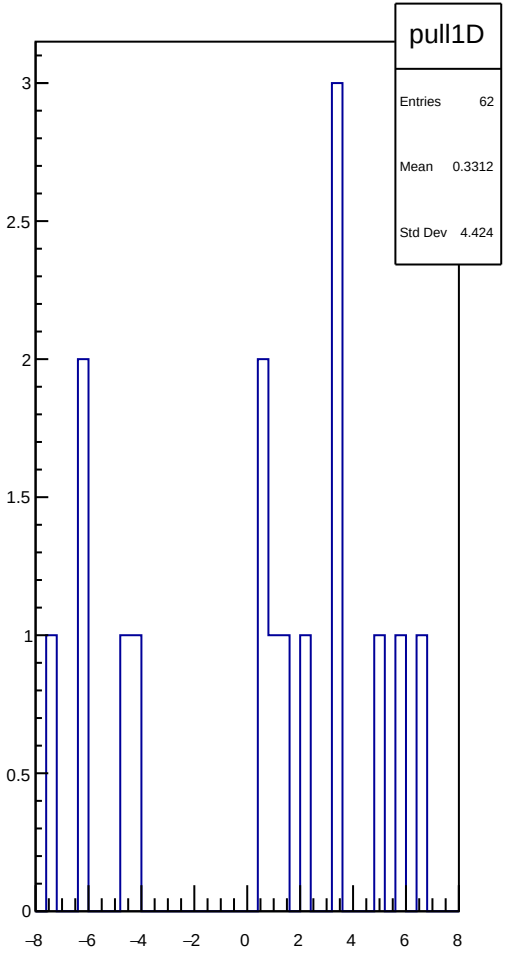

yield_bpm4eX_rms vs run
χ² / ndf 2.351e+04 / 61
p0 0.0151 ± 1.403e−05
0.03
0.025
0.02
0.015
0.01

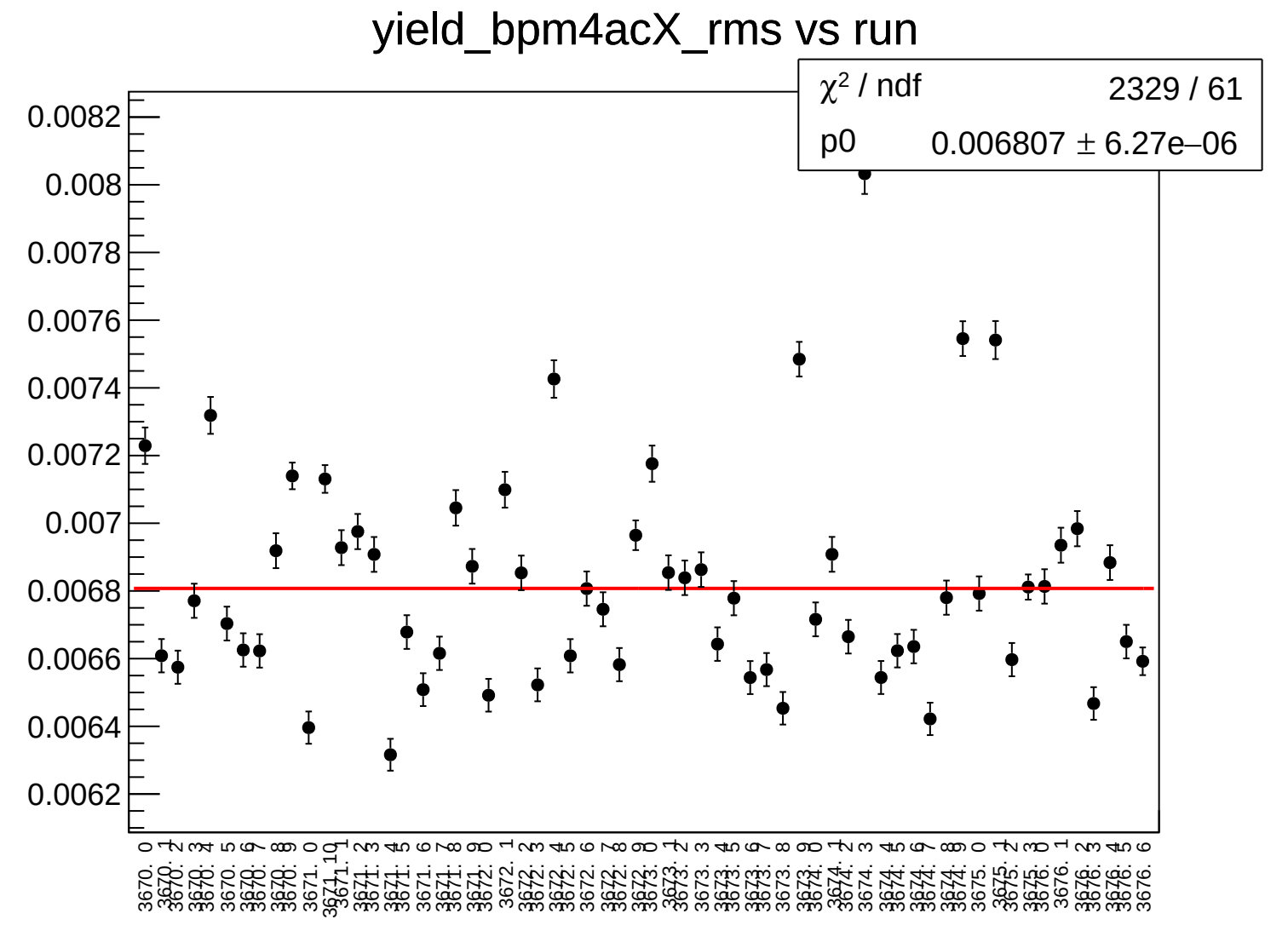

yield_bpm4eY_mean vs run
χ² / ndf 6.262e+04 / 61
p0 1.517 ± 1.308e−05
1.528
1.526
1.524
1.522
1.52
1.518
1.516
1.514
1.512
1.51
pull
Entries 62
Mean 149.6
Std Dev 118.1
80
60
40
20
0
−20
−40
−60

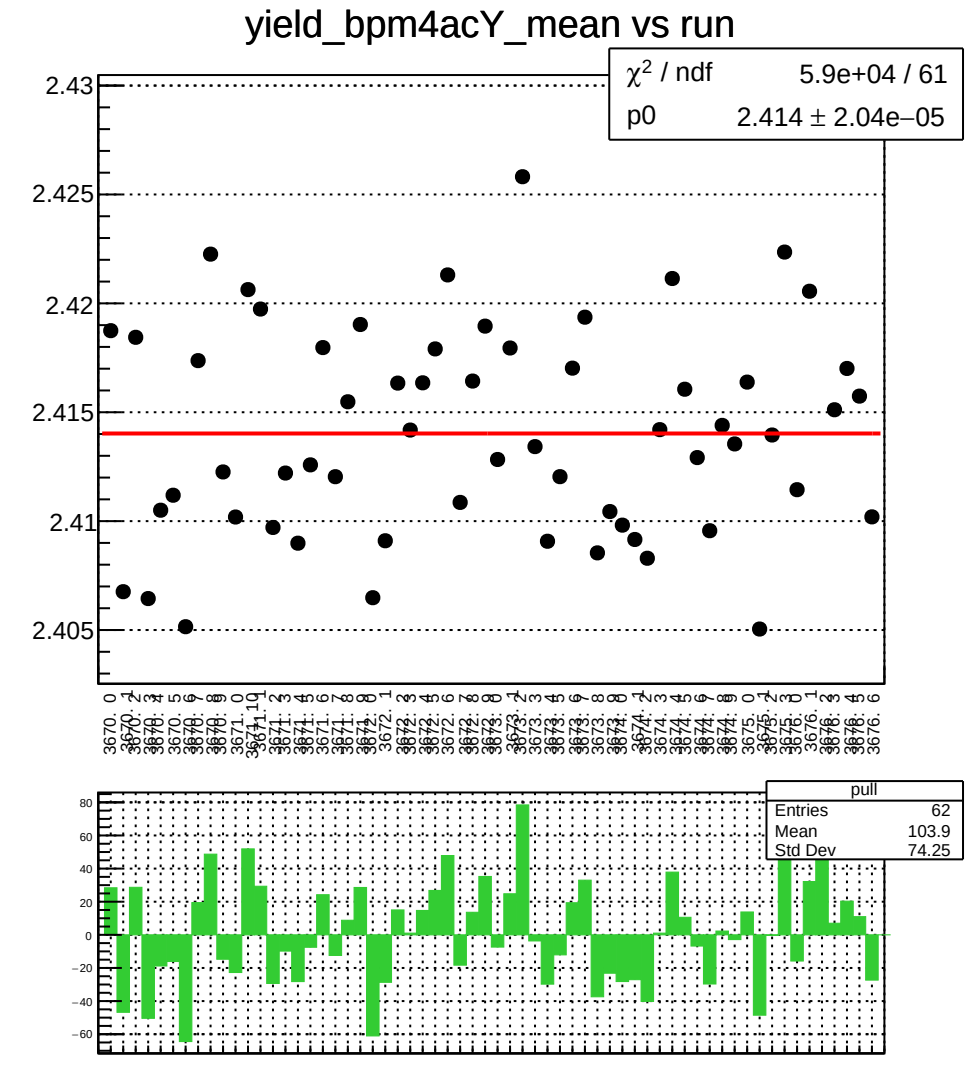

pull1D
Entries 62
Mean 2.546
Std Dev 3.976
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

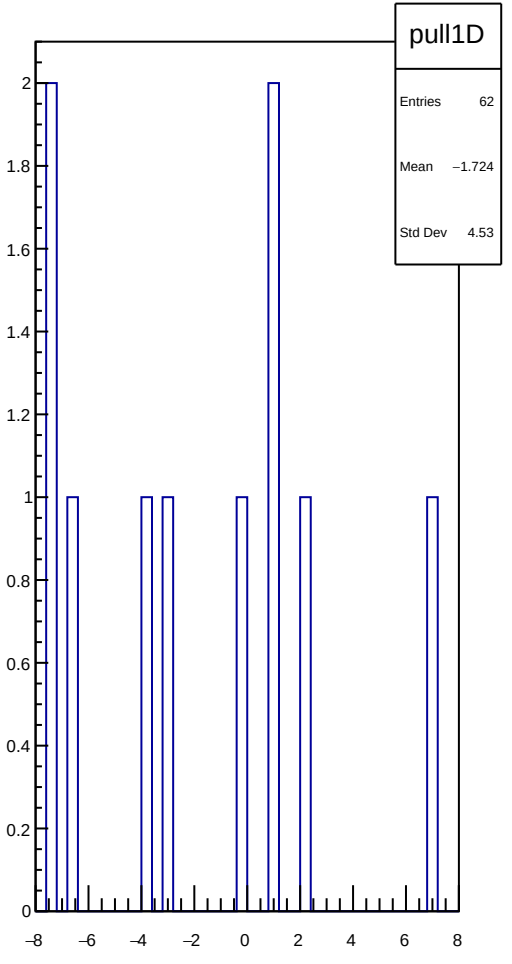

yield_bpm4eY_rms vs run
χ² / ndf 1.925e+04 / 61
p0 0.009969 ± 9.25e−06
0.018
0.016
0.014
0.012
0.01
0.008

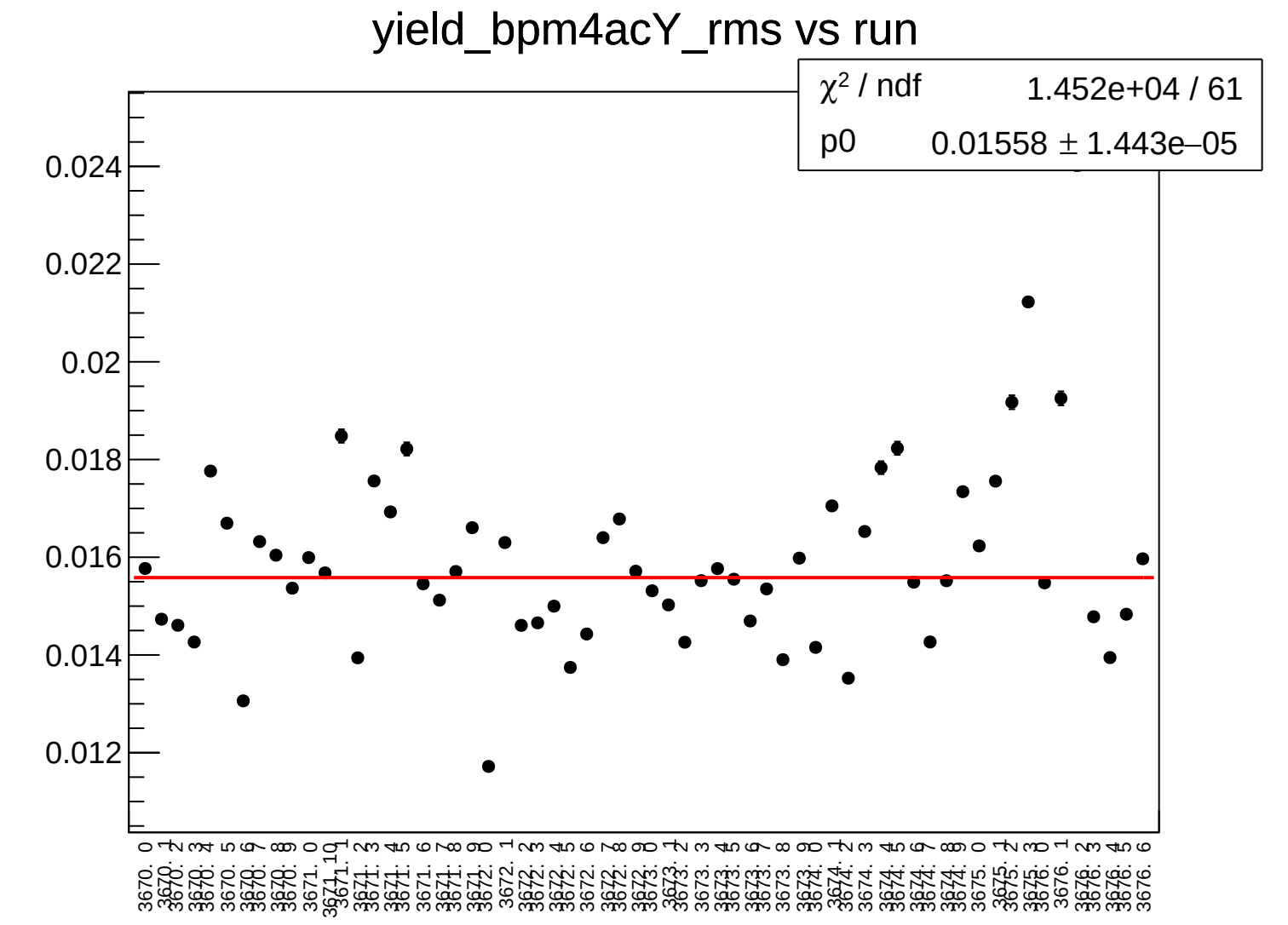

yield_bpm4acX_mean vs run
χ² / ndf 5.189e+04 / 61
p0 −0.8274 ± 8.868e−06
−0.822
−0.824
−0.826
−0.828
−0.83
−0.832
pull
Entries 62
Mean −1821
Std Dev 1852

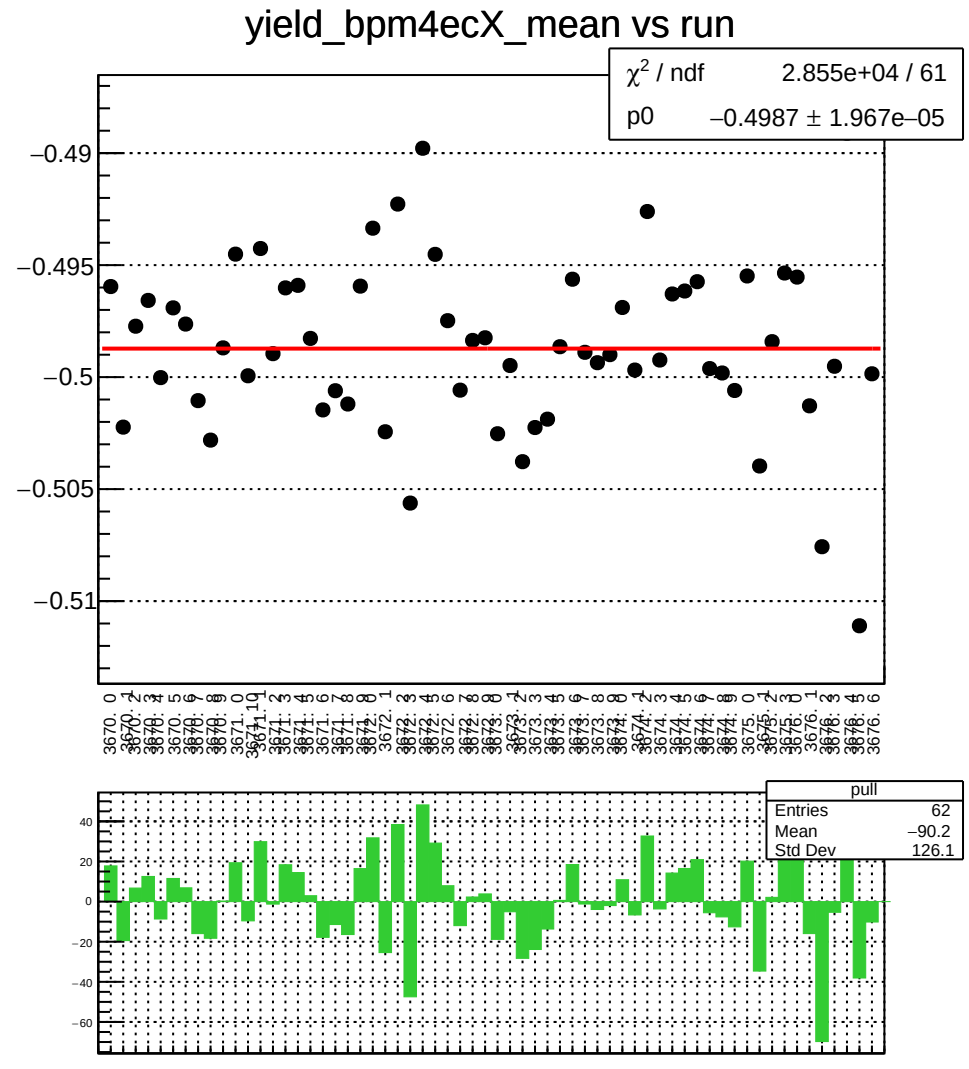

pull1D
Entries 62
Mean 0.3312
Std Dev 4.424

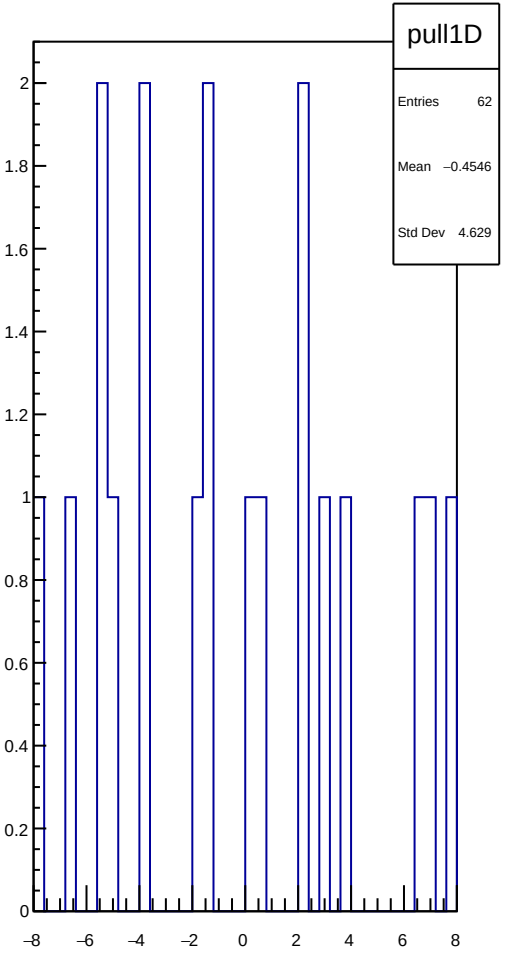

yield_bpm4acX_rms vs run
χ² / ndf 2329 / 61
p0 0.006807 ± 6.27e–06
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

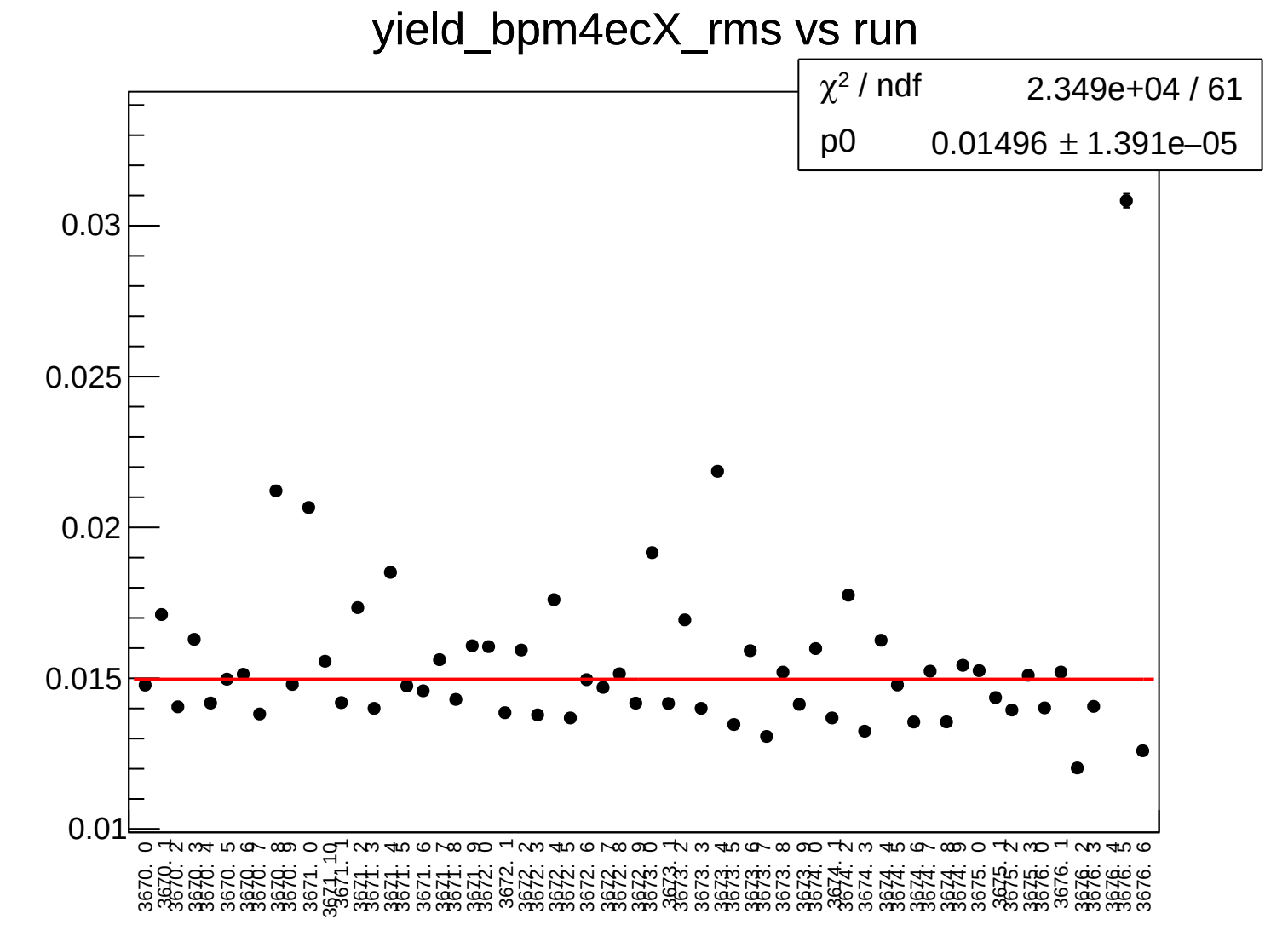

yield_bpm4acY_mean vs run
χ² / ndf 5.9e+04 / 61
p0 2.414 ± 2.04e−05
2.43
2.425
2.42
2.415
2.41
2.405
pull
Entries 62
Mean 103.9
Std Dev 74.25
80
60
40
20
0
−20
−40
−60

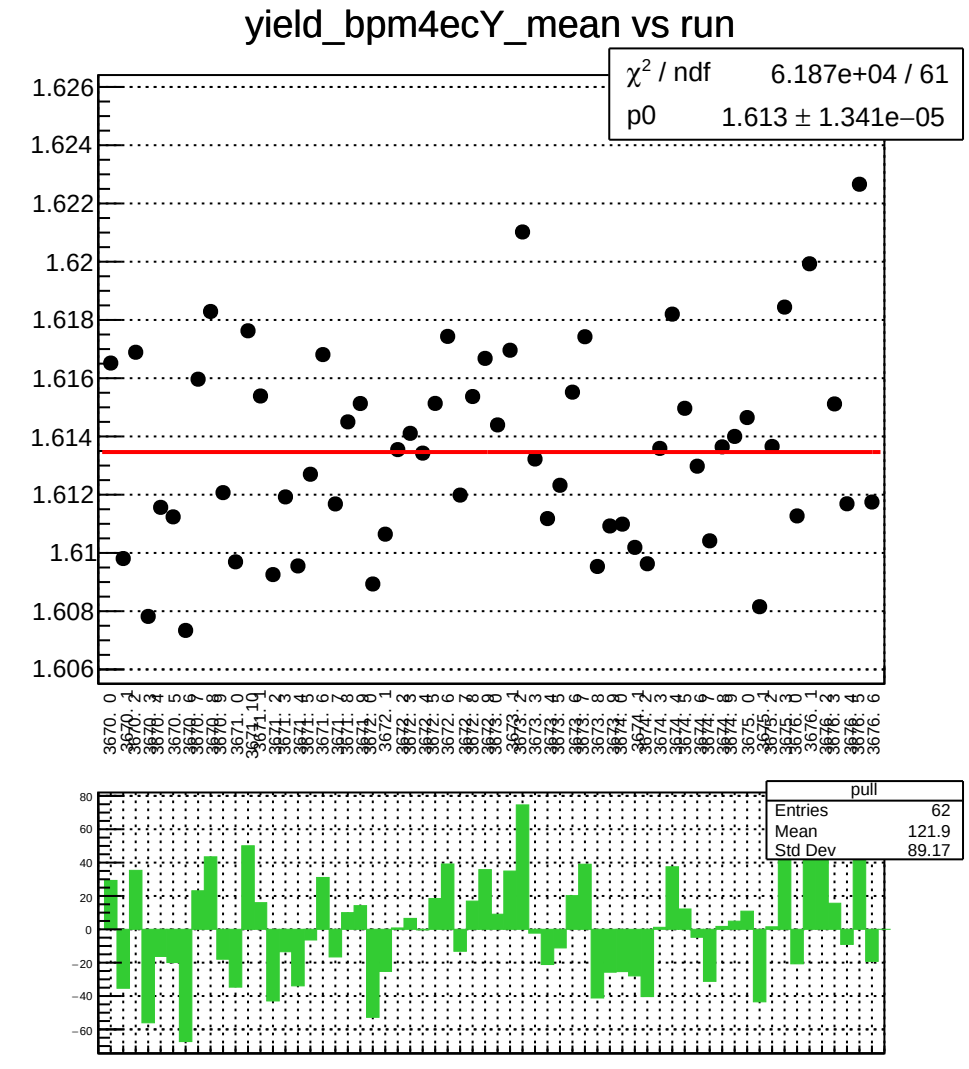

pull1D
Entries 62
Mean −1.724
Std Dev 4.53
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

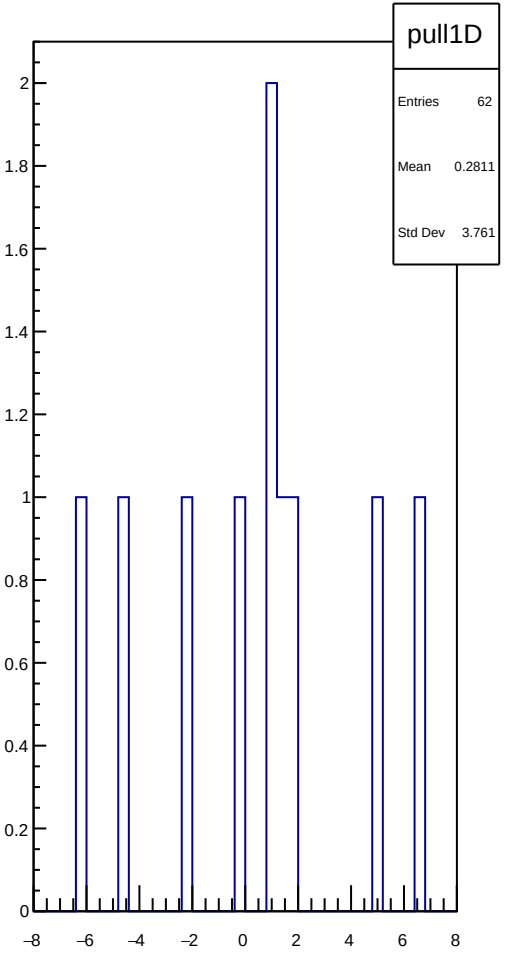

yield_bpm4acY_rms vs run
χ² / ndf 1.452e+04 / 61
p0 0.01558 ± 1.443e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

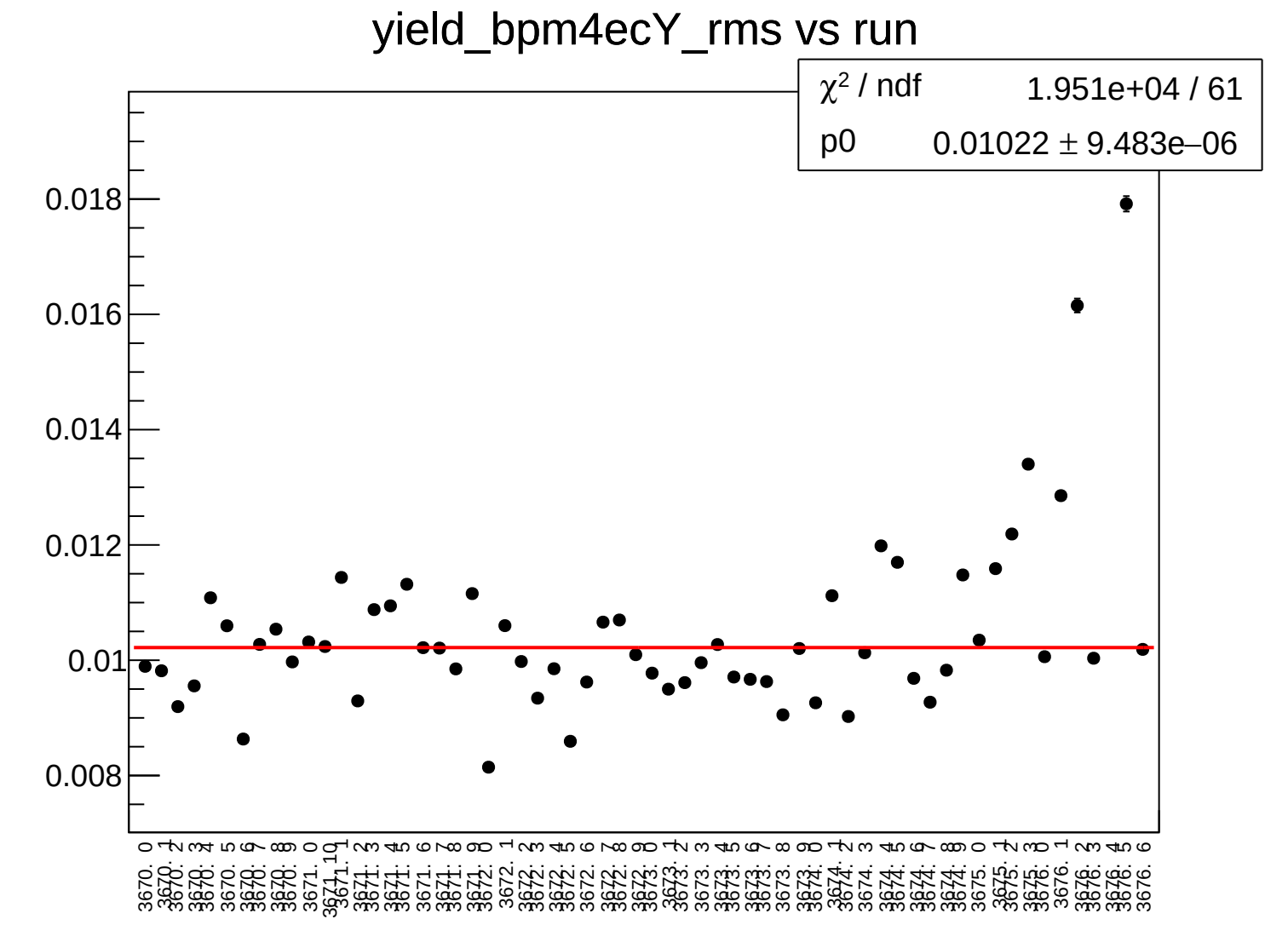

yield_bpm4ecX_mean vs run
χ² / ndf 2.855e+04 / 61
p0 −0.4987 ± 1.967e−05
−0.49
−0.495
−0.5
−0.505
−0.51
pull
Entries 62
Mean −90.2
Std Dev 126.1
40
20
0
−20
−40
−60

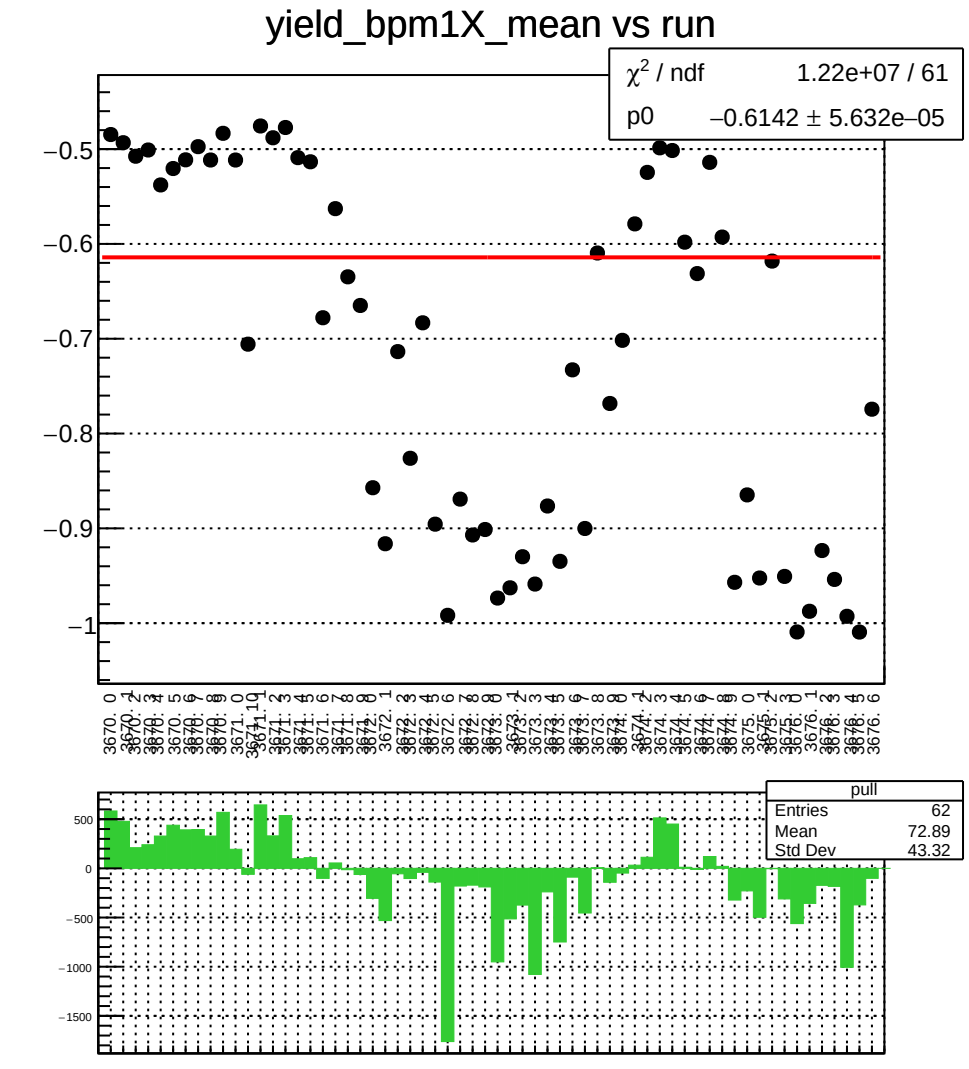

pull1D
Entries 62
Mean −0.4546
Std Dev 4.629
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

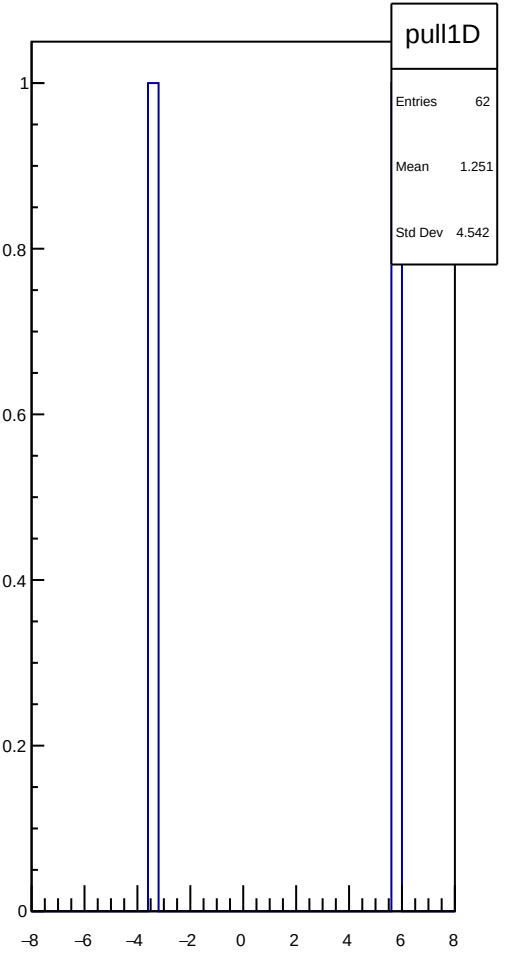

yield_bpm4ecX_rms vs run
χ² / ndf 2.349e+04 / 61
p0 0.01496 ± 1.391e−05
0.03
0.025
0.02
0.015
0.01
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

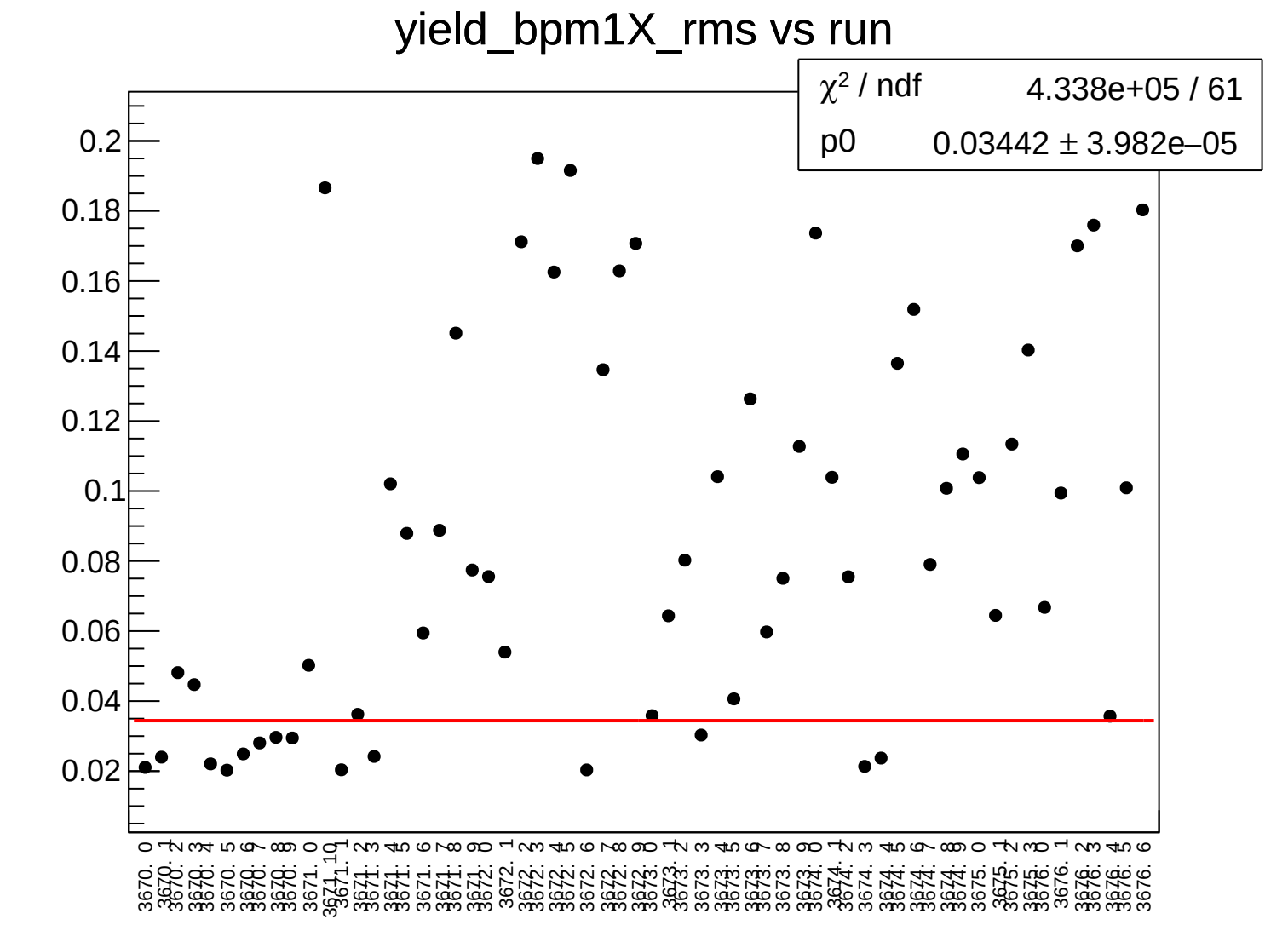

yield_bpm4ecY_mean vs run
χ² / ndf 6.187e+04 / 61
p0 1.613 ± 1.341e−05
pull
Entries 62
Mean 121.9
Std Dev 89.17

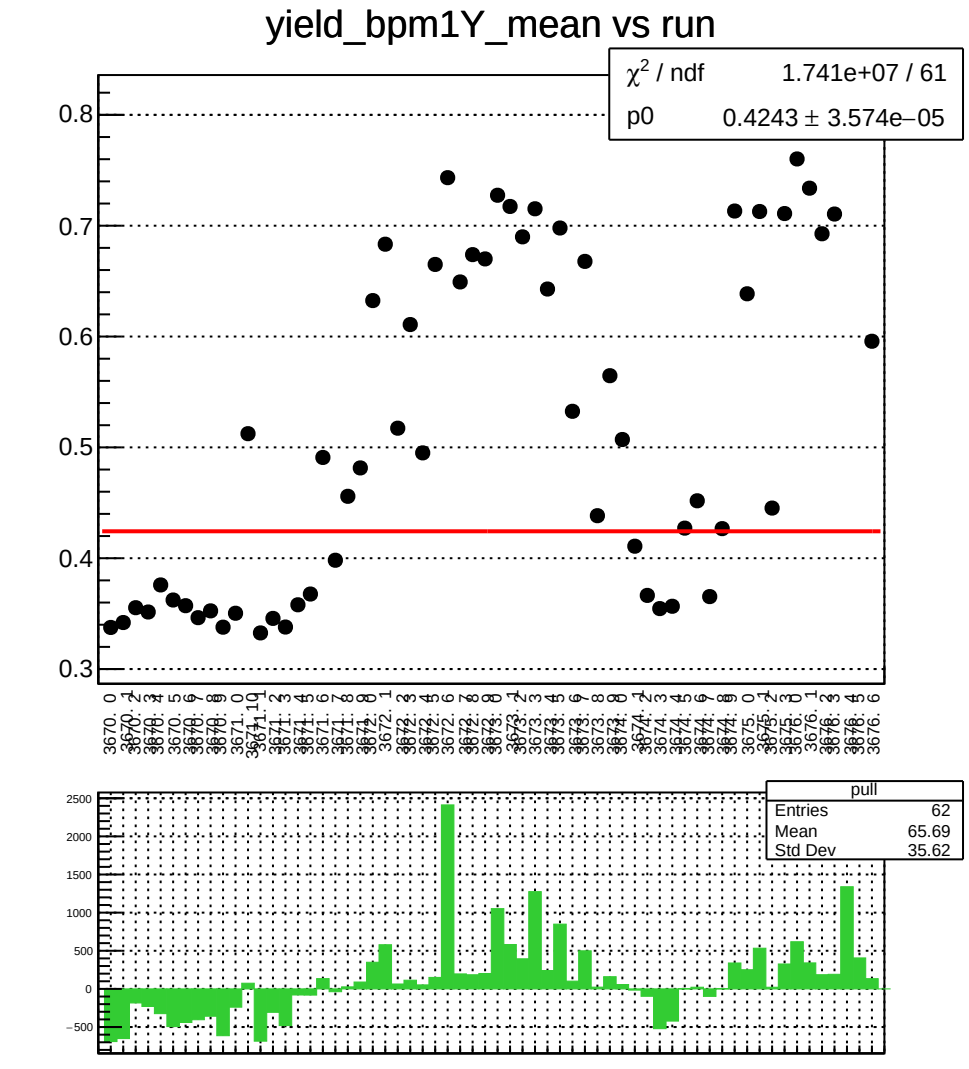

pull1D
Entries 62
Mean 0.2811
Std Dev 3.761

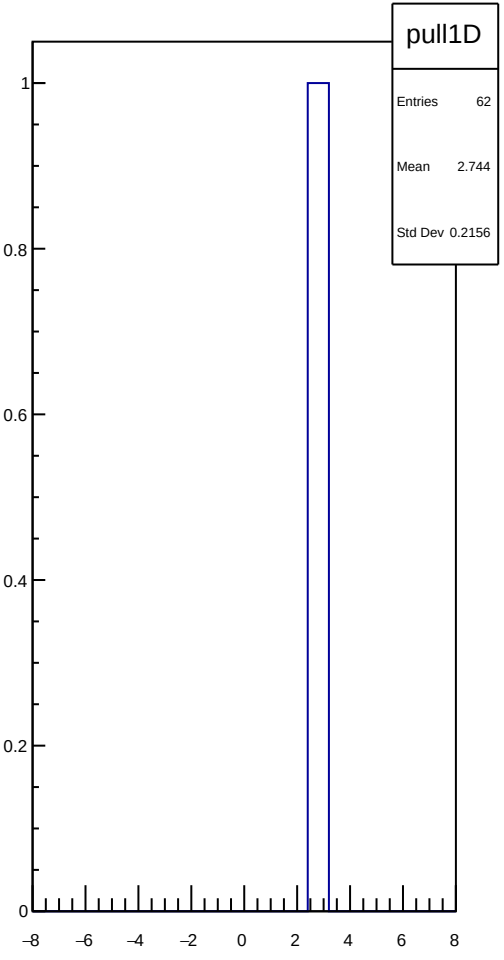

yield_bpm4ecY_rms vs run
χ² / ndf 1.951e+04 / 61
p0 0.01022 ± 9.483e–06
0.018
0.016
0.014
0.012
0.01
0.008

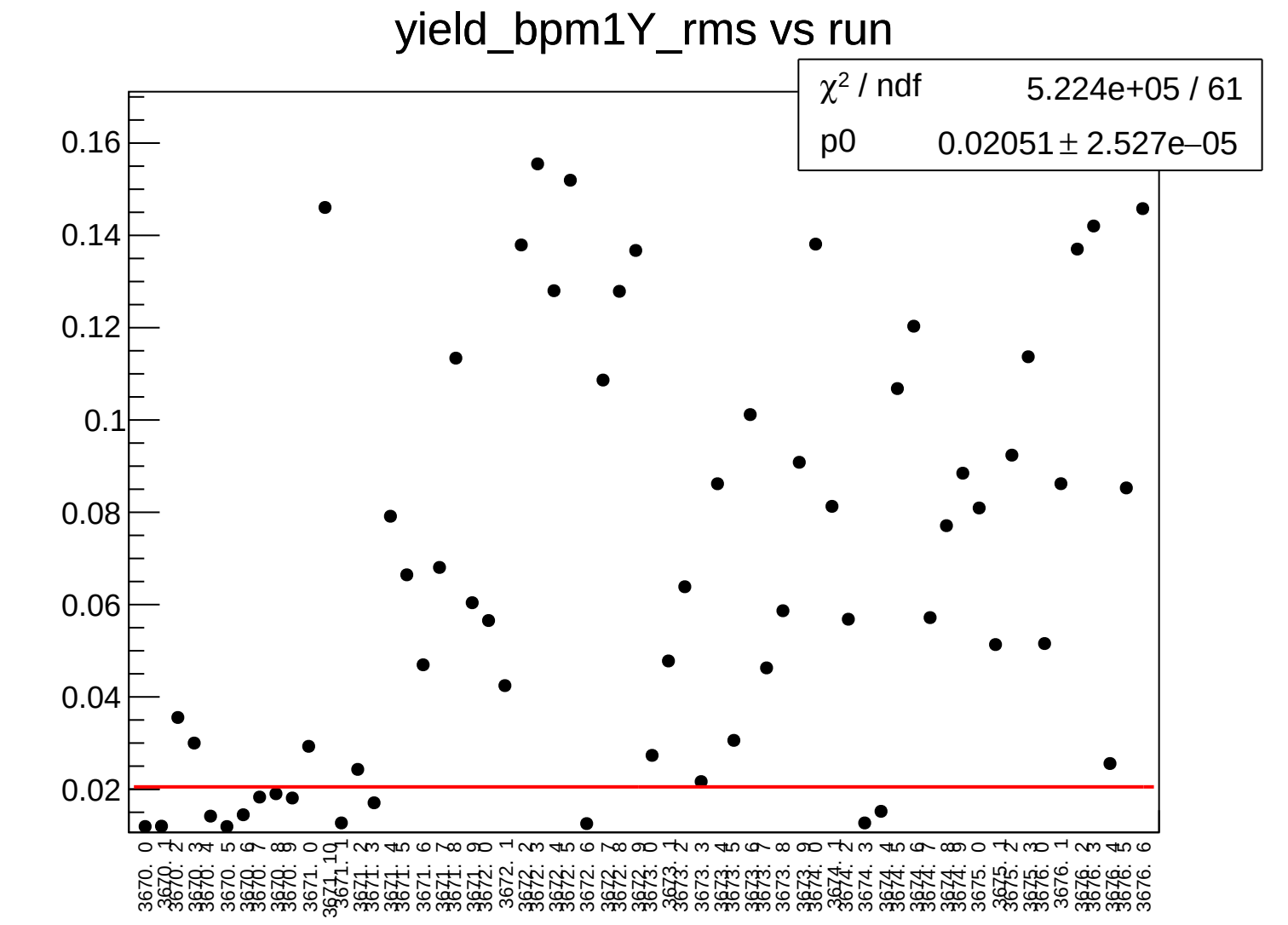

yield_bpm1X_mean vs run
χ² / ndf 1.22e+07 / 61
p0 −0.6142 ± 5.632e−05
pull
Entries 62
Mean 72.89
Std Dev 43.32

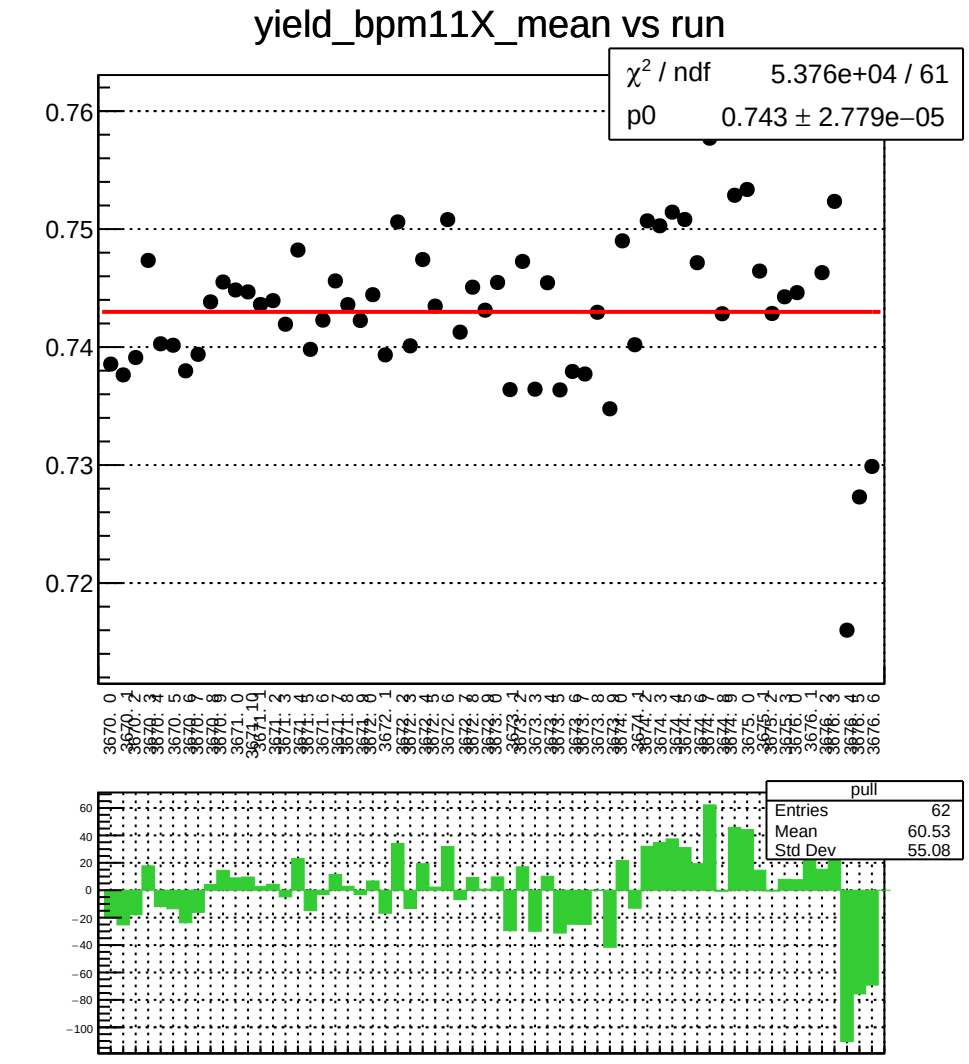

pull1D
Entries 62
Mean 1.251
Std Dev 4.542

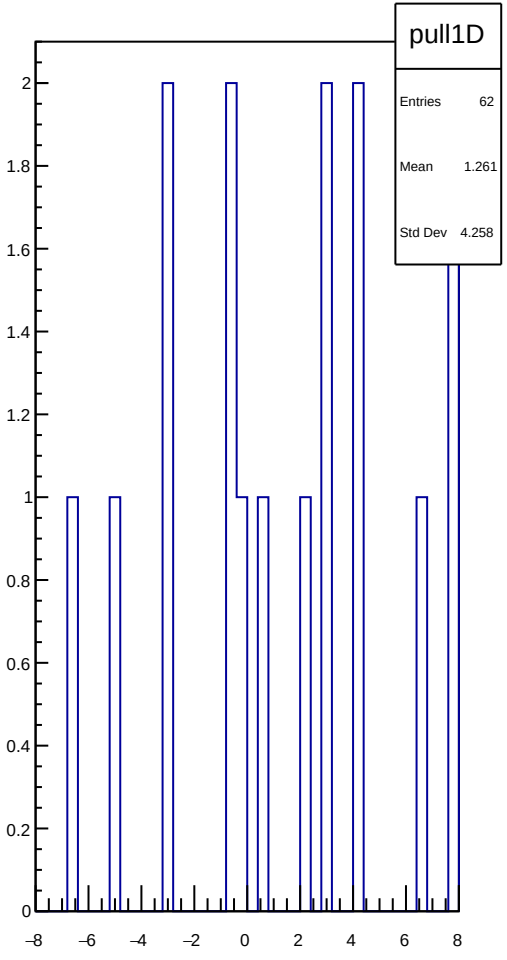

yield_bpm1X_rms vs run
χ² / ndf 4.338e+05 / 61
p0 0.03442 ± 3.982e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

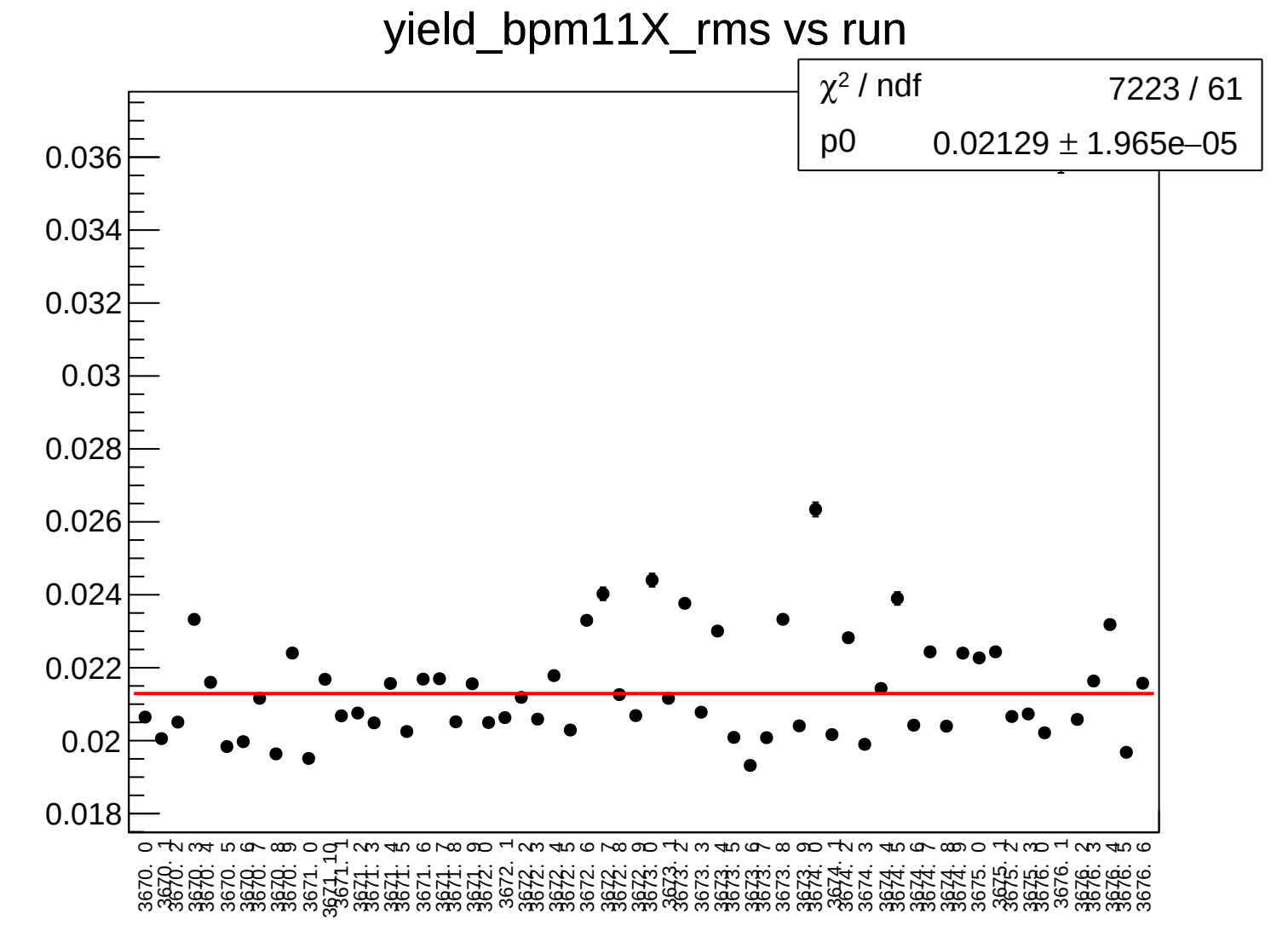

yield_bpm1Y_mean vs run
χ² / ndf 1.741e+07 / 61
p0 0.4243 ± 3.574e−05
pull
Entries 62
Mean 65.69
Std Dev 35.62

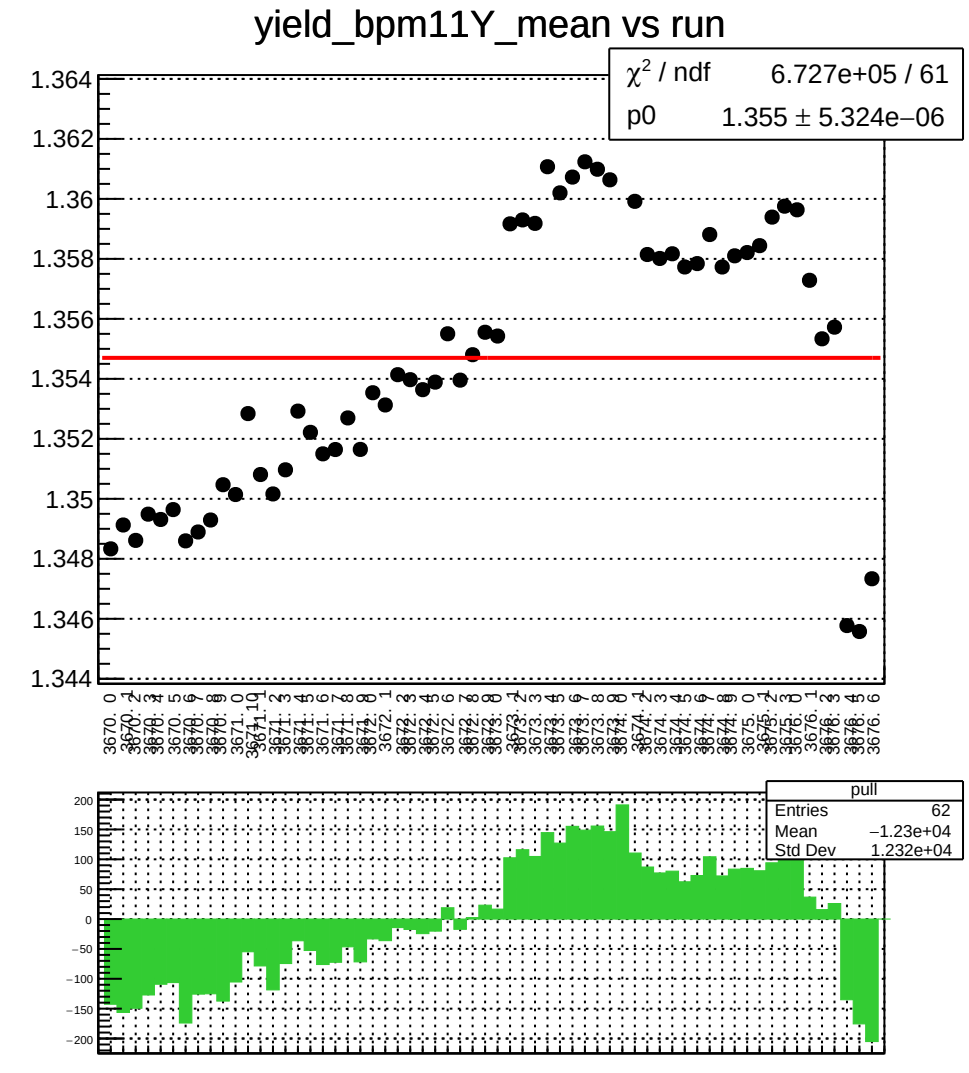

pull1D
Entries 62
Mean 2.744
Std Dev 0.2156

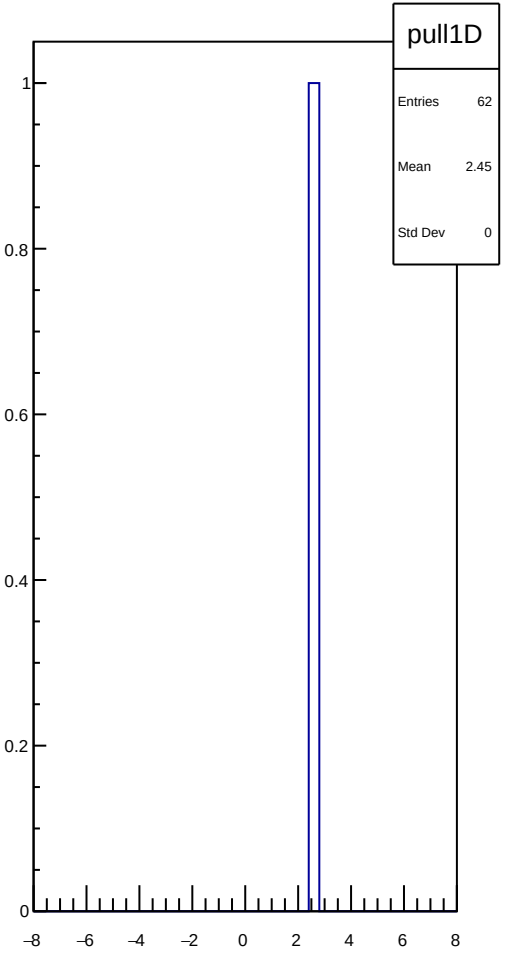

yield_bpm1Y_rms vs run
χ² / ndf 5.224e+05 / 61
p0 0.02051 ± 2.527e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

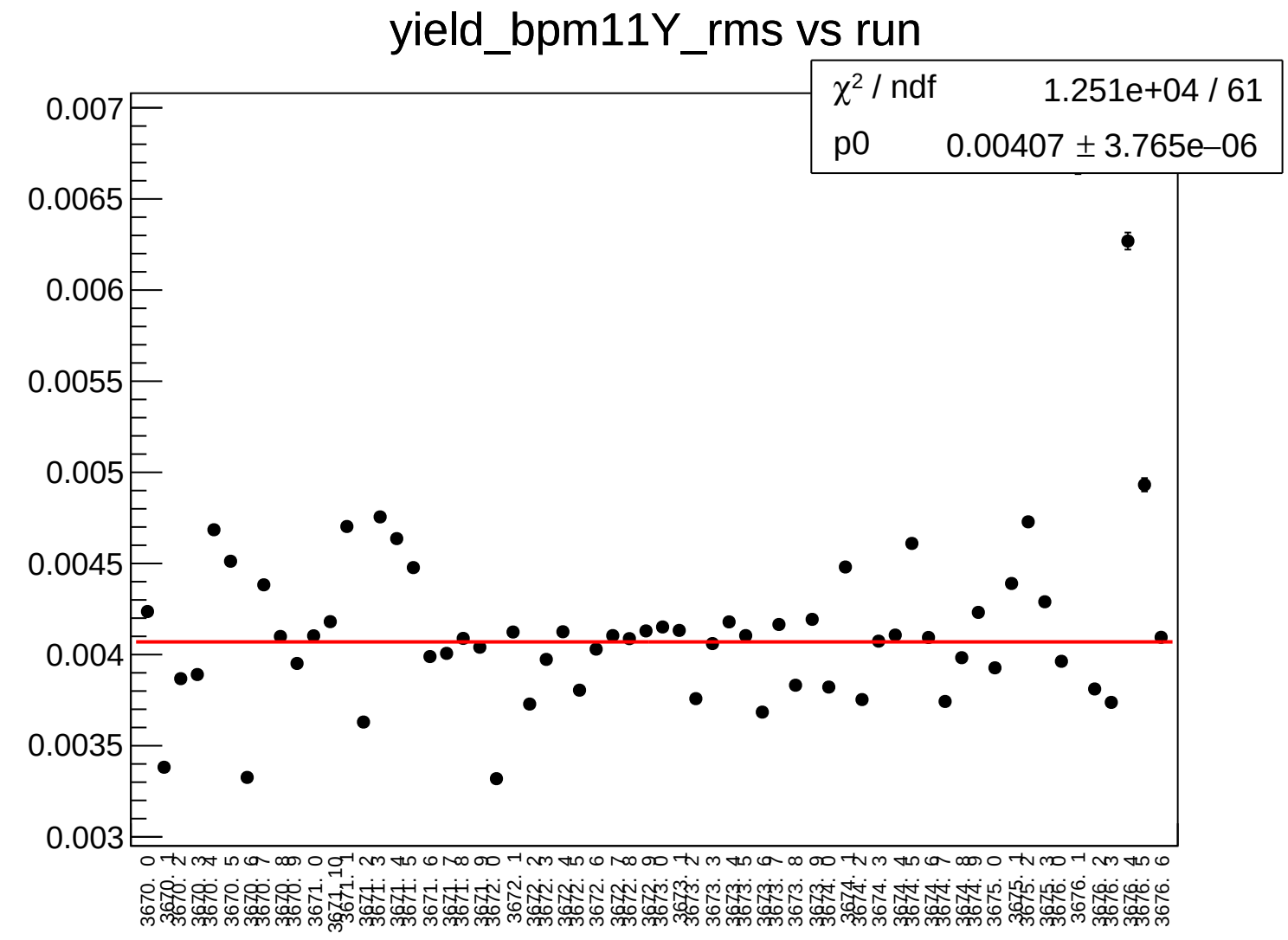

yield_bpm11X_mean vs run
χ² / ndf 5.376e+04 / 61
p0 0.743 ± 2.779e−05
0.76
0.75
0.74
0.73
0.72
pull
Entries 62
Mean 60.53
Std Dev 55.08
60
40
20
0
−20
−40
−60
−80
−100

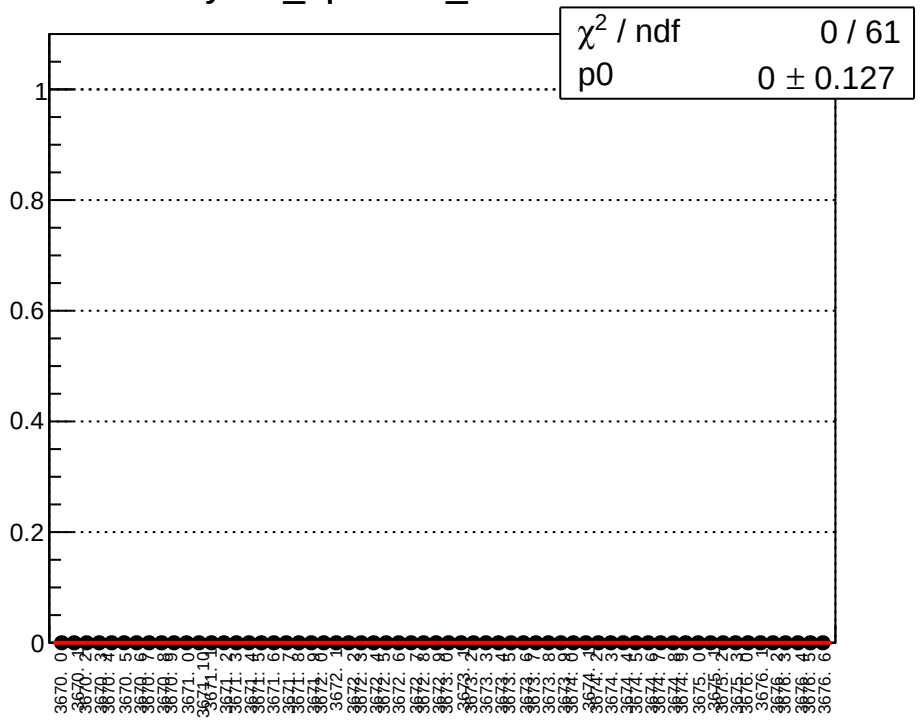

pull1D
Entries 62
Mean 1.261
Std Dev 4.258
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

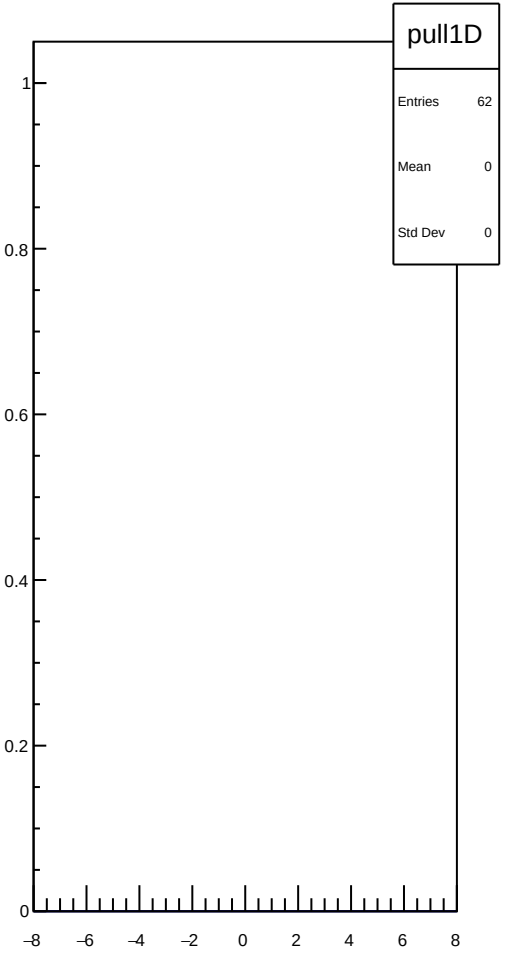

yield_bpm11X_rms vs run
χ² / ndf 7223 / 61
p0 0.02129 ± 1.965e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

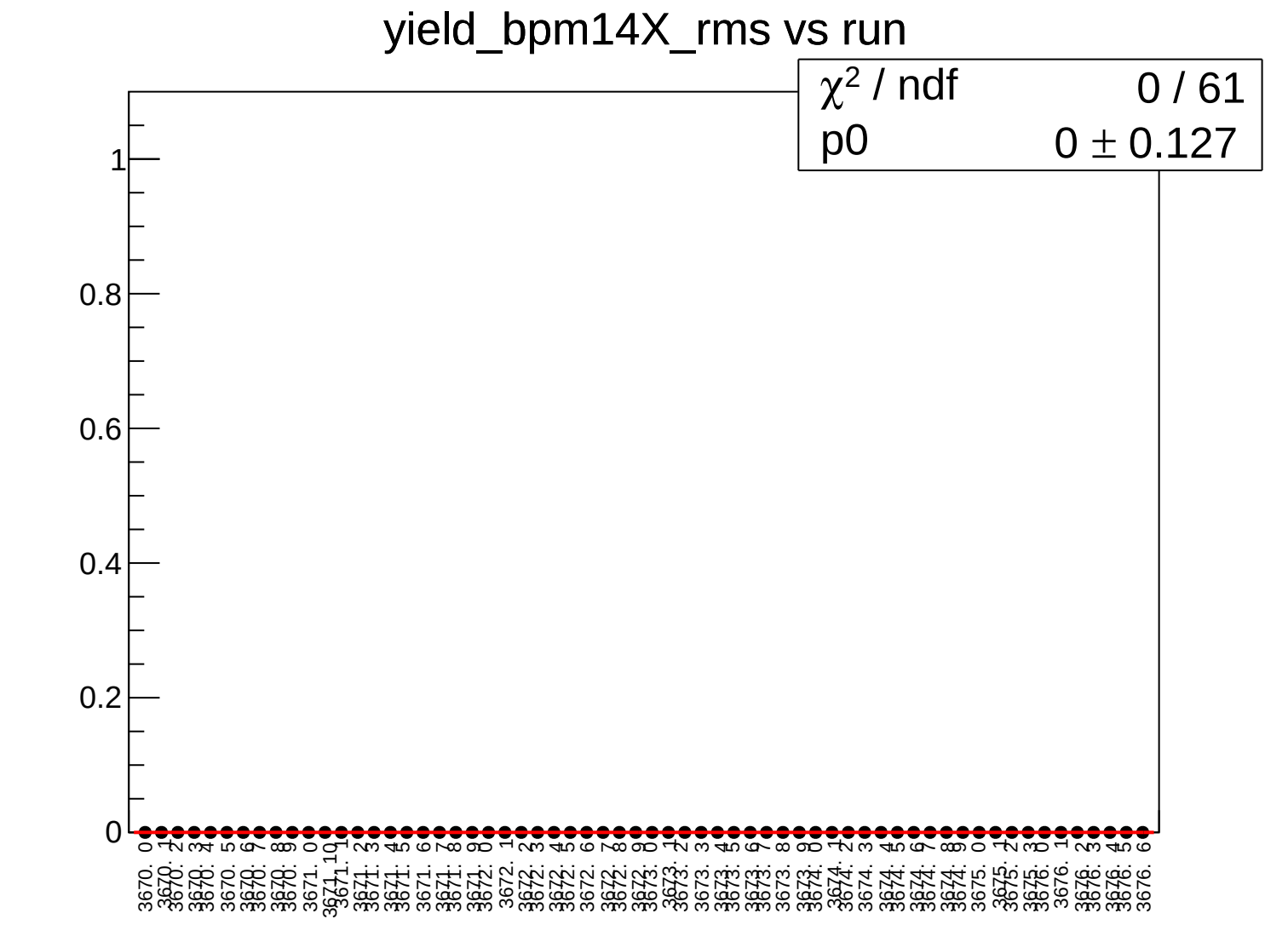

yield_bpm11Y_mean vs run
χ² / ndf 6.727e+05 / 61
p0 1.355 ± 5.324e−06
pull
Entries 62
Mean −1.23e+04
Std Dev 1.232e+04

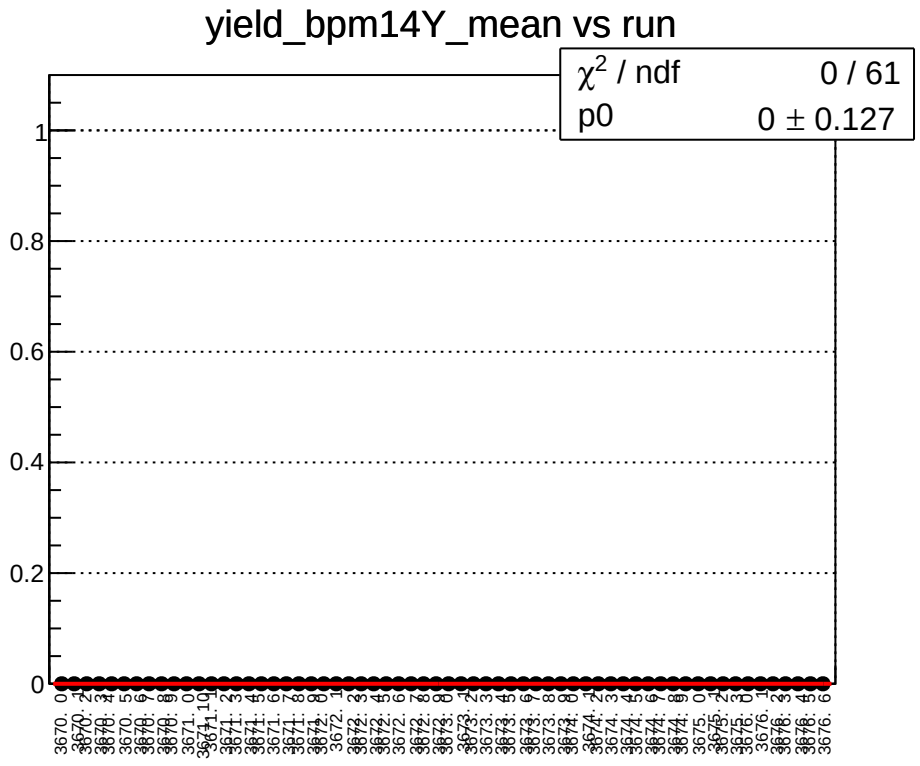

pull1D
Entries 62
Mean 2.45
Std Dev 0

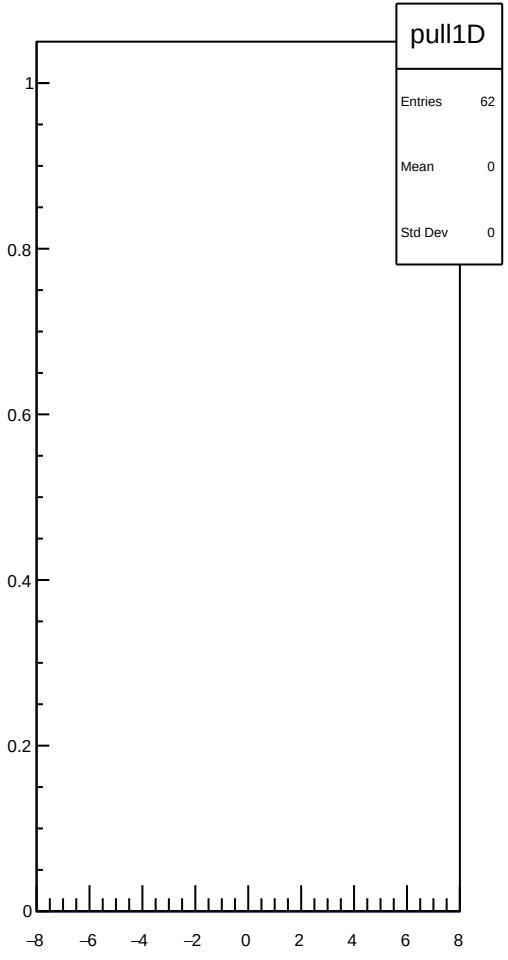

yield_bpm11Y_rms vs run
χ² / ndf 1.251e+04 / 61
p0 0.00407 ± 3.765e–06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

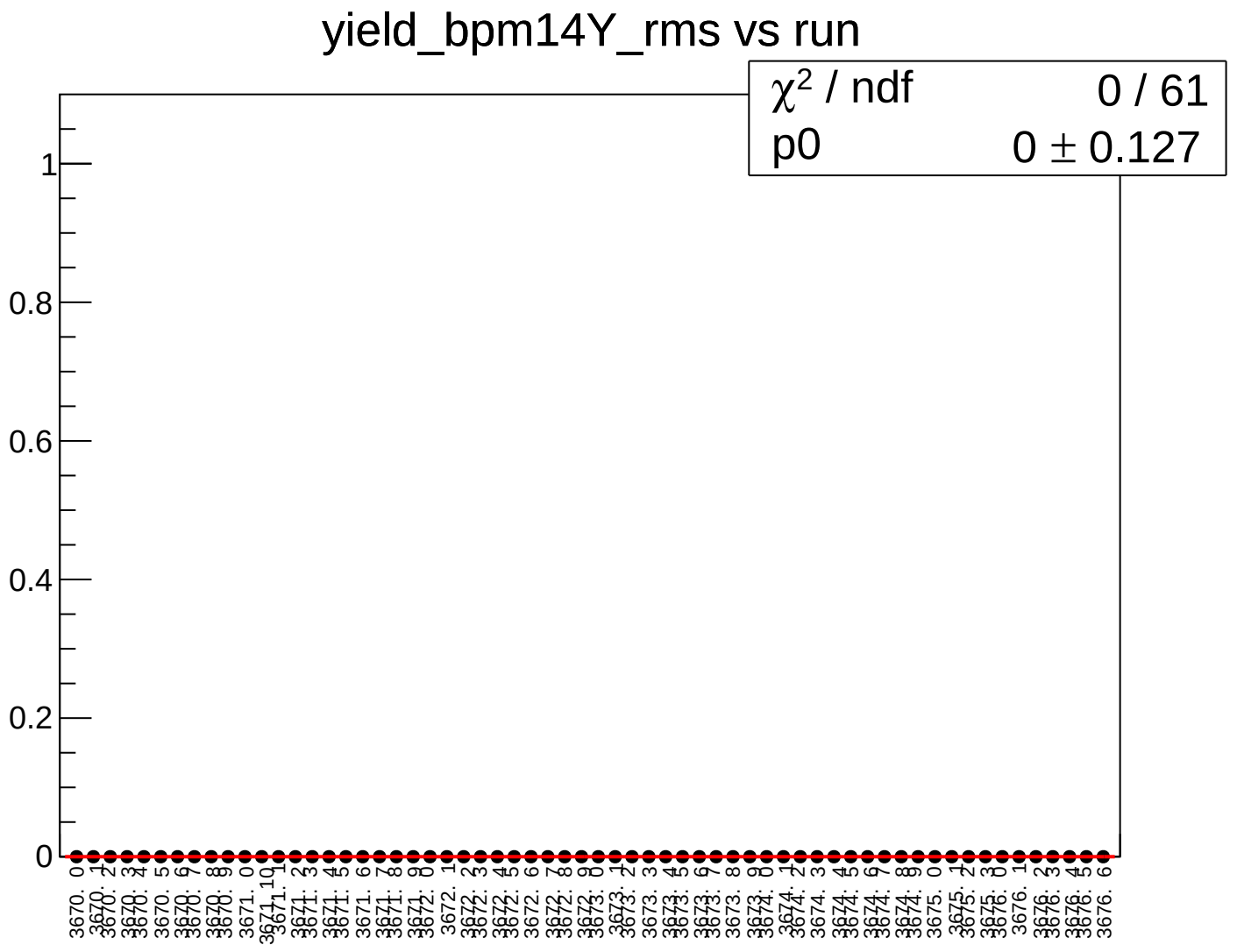

yield_bpm14X_mean vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

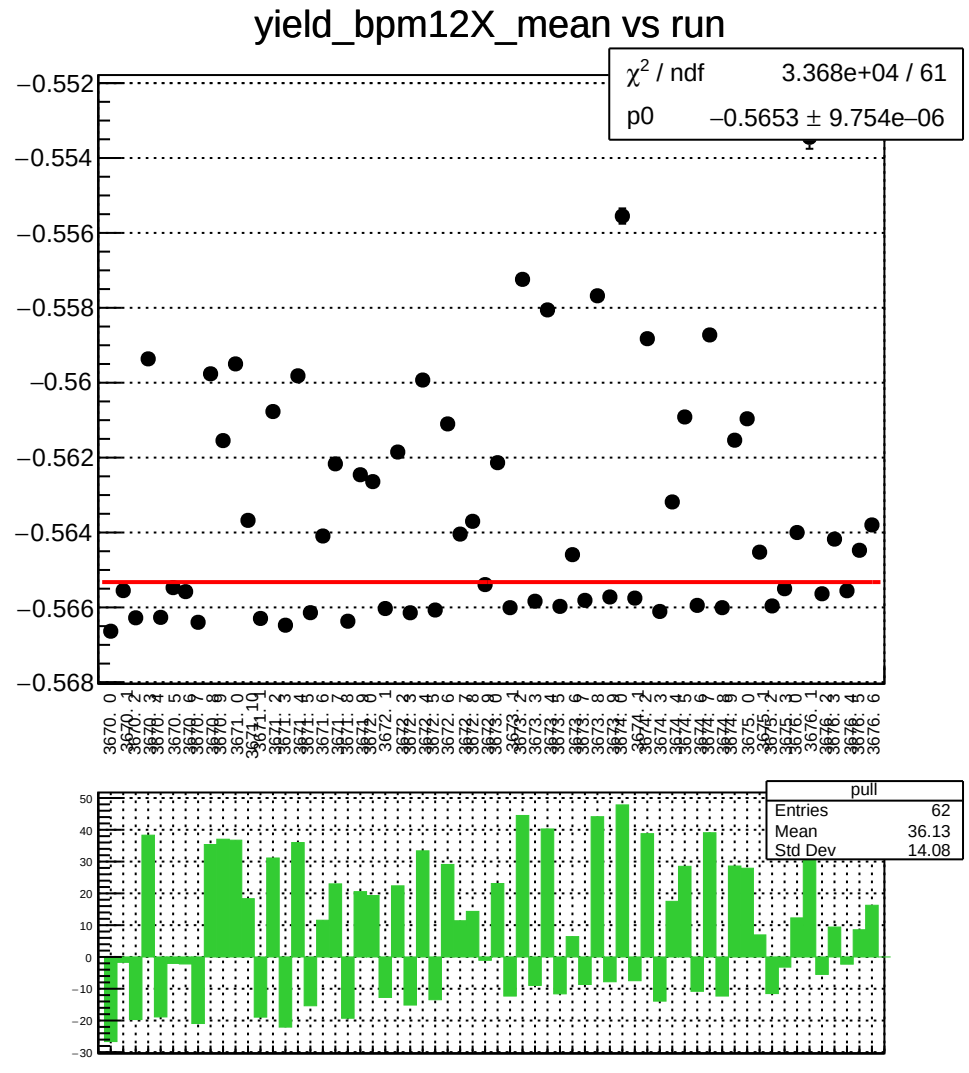

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

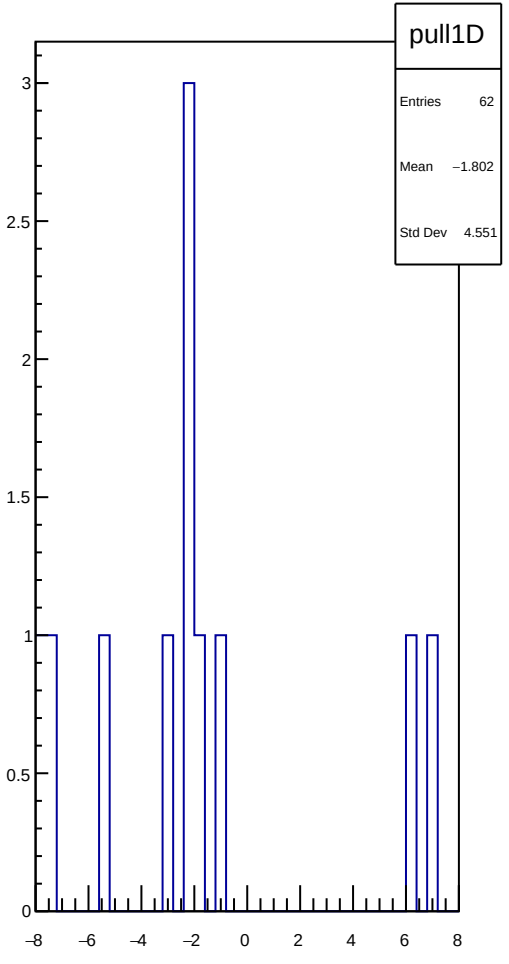

yield_bpm14X_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

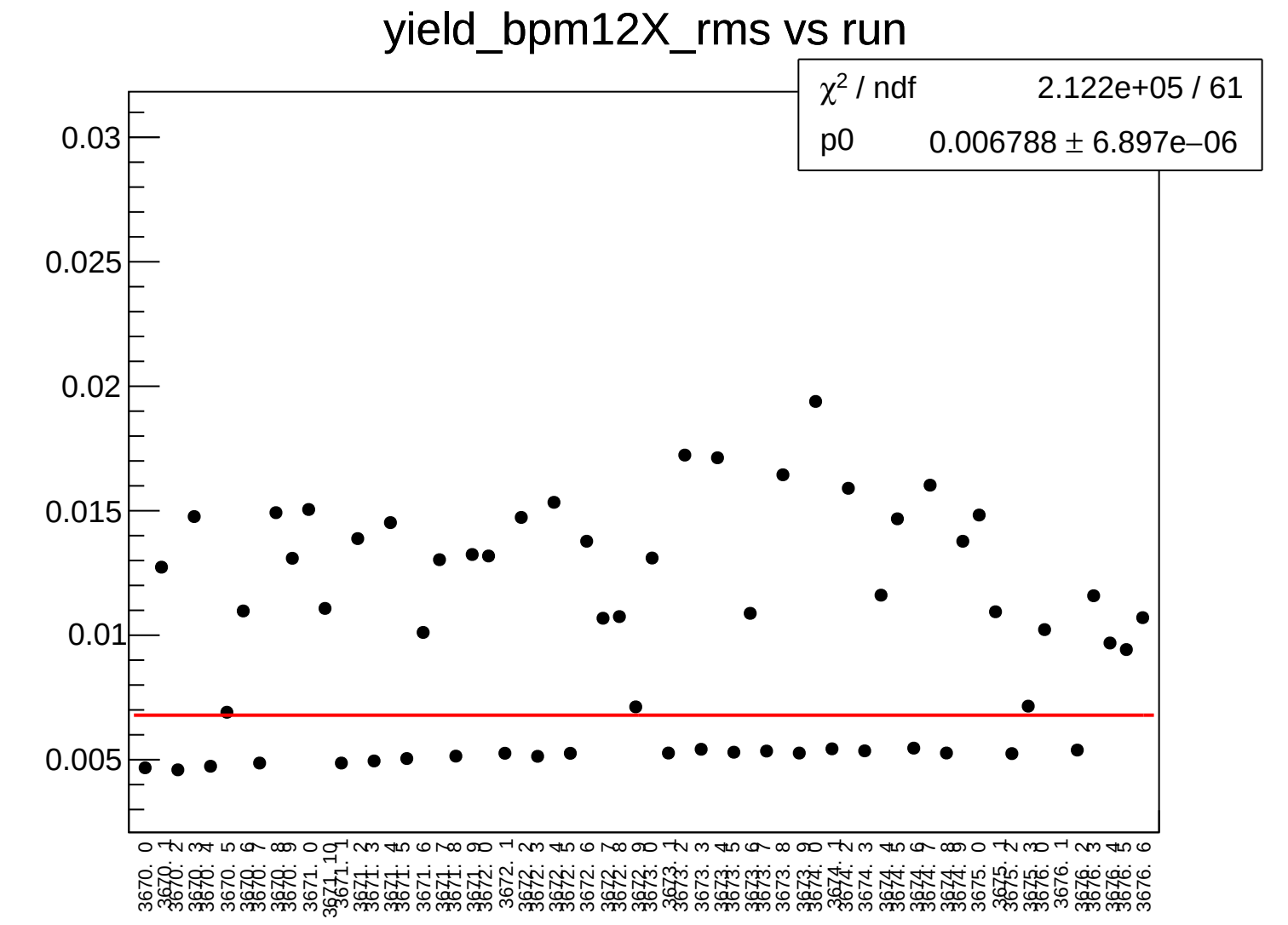

yield_bpm14Y_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

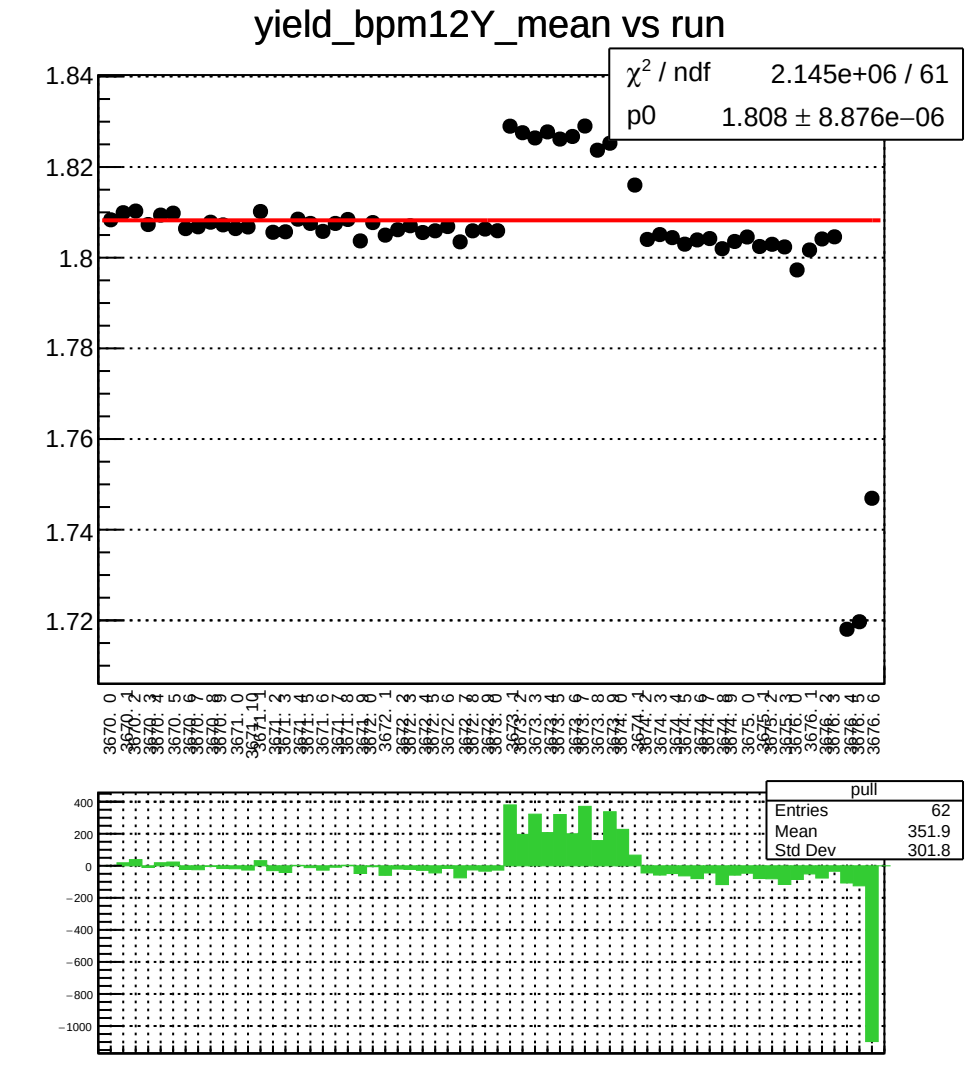

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

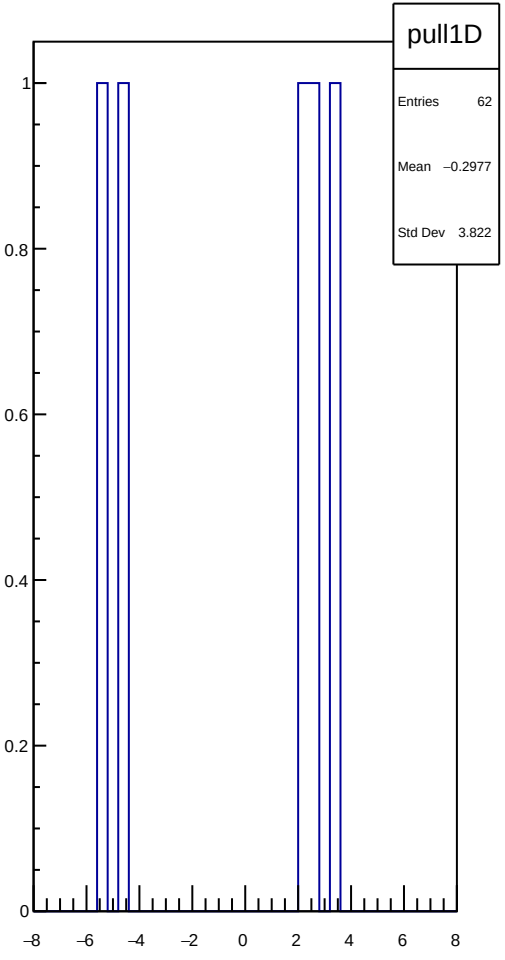

yield_bpm14Y_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

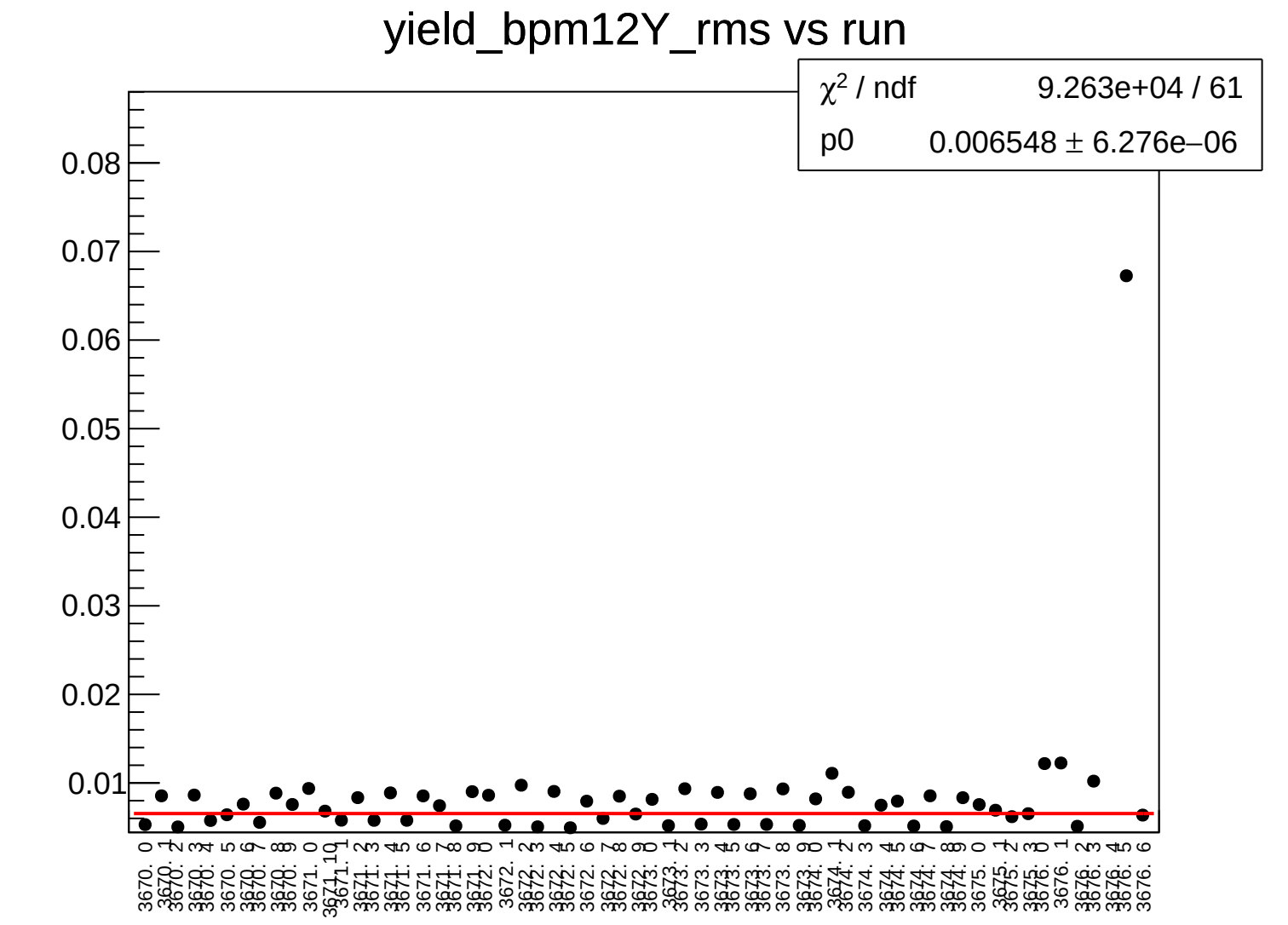

yield_bpm12X_mean vs run
χ² / ndf 3.368e+04 / 61
p0 −0.5653 ± 9.754e−06
pull
Entries 62
Mean 36.13
Std Dev 14.08

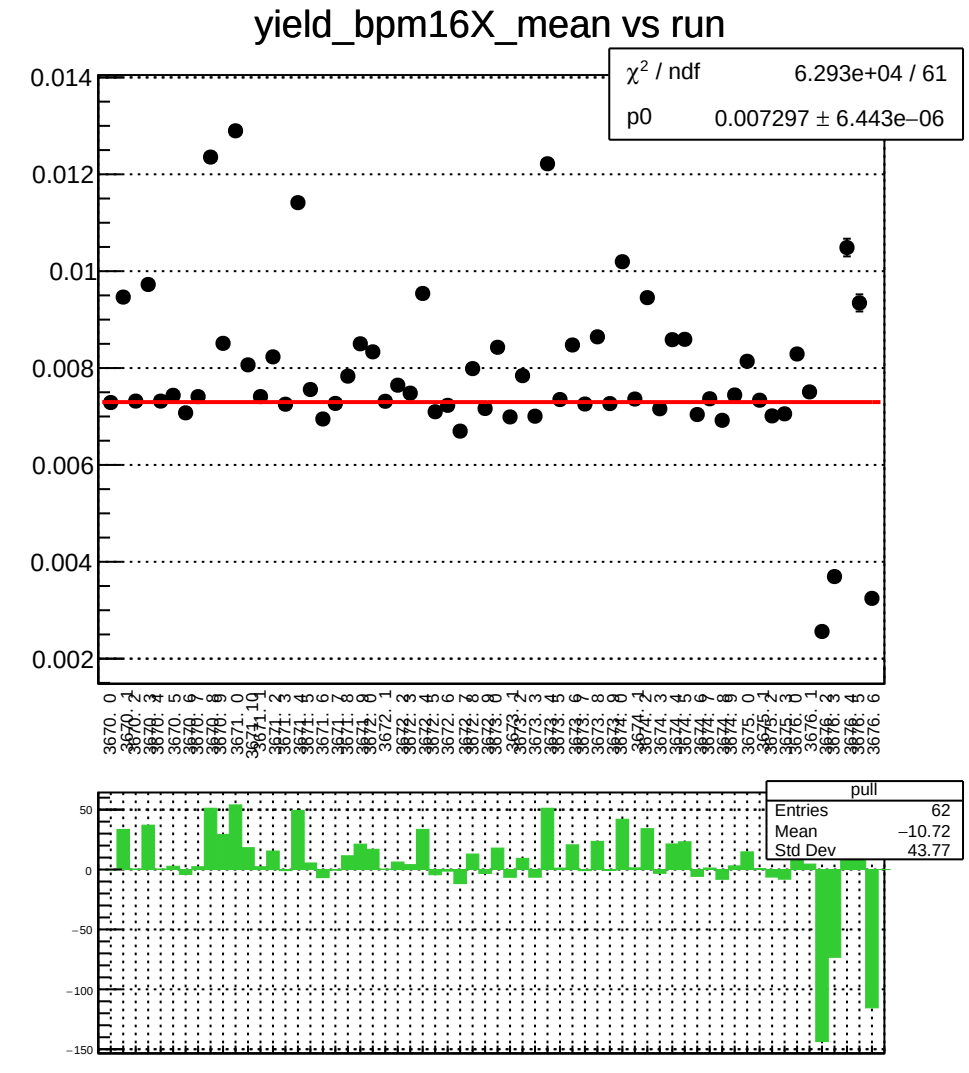

pull1D
Entries 62
Mean −1.802
Std Dev 4.551

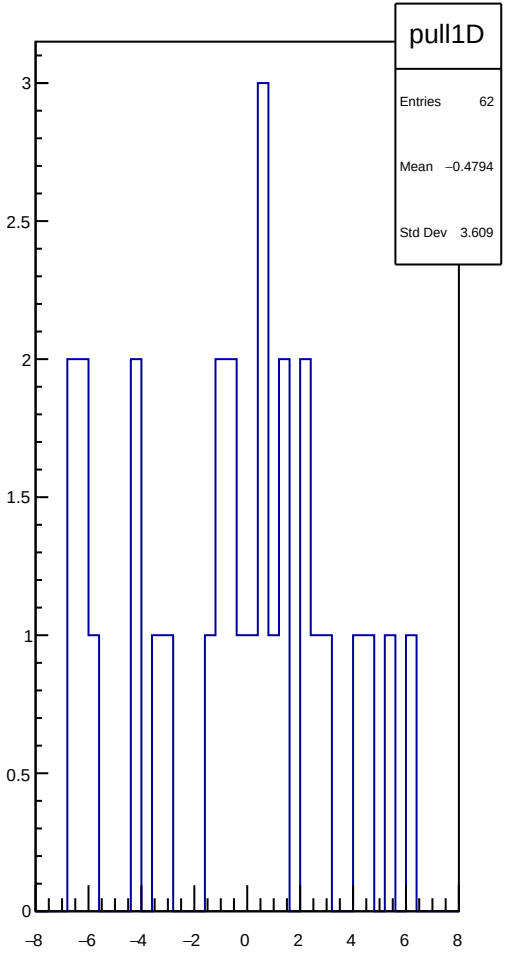

yield_bpm12X_rms vs run
χ² / ndf 2.122e+05 / 61
p0 0.006788 ± 6.897e−06
0.03
0.025
0.02
0.015
0.01
0.005

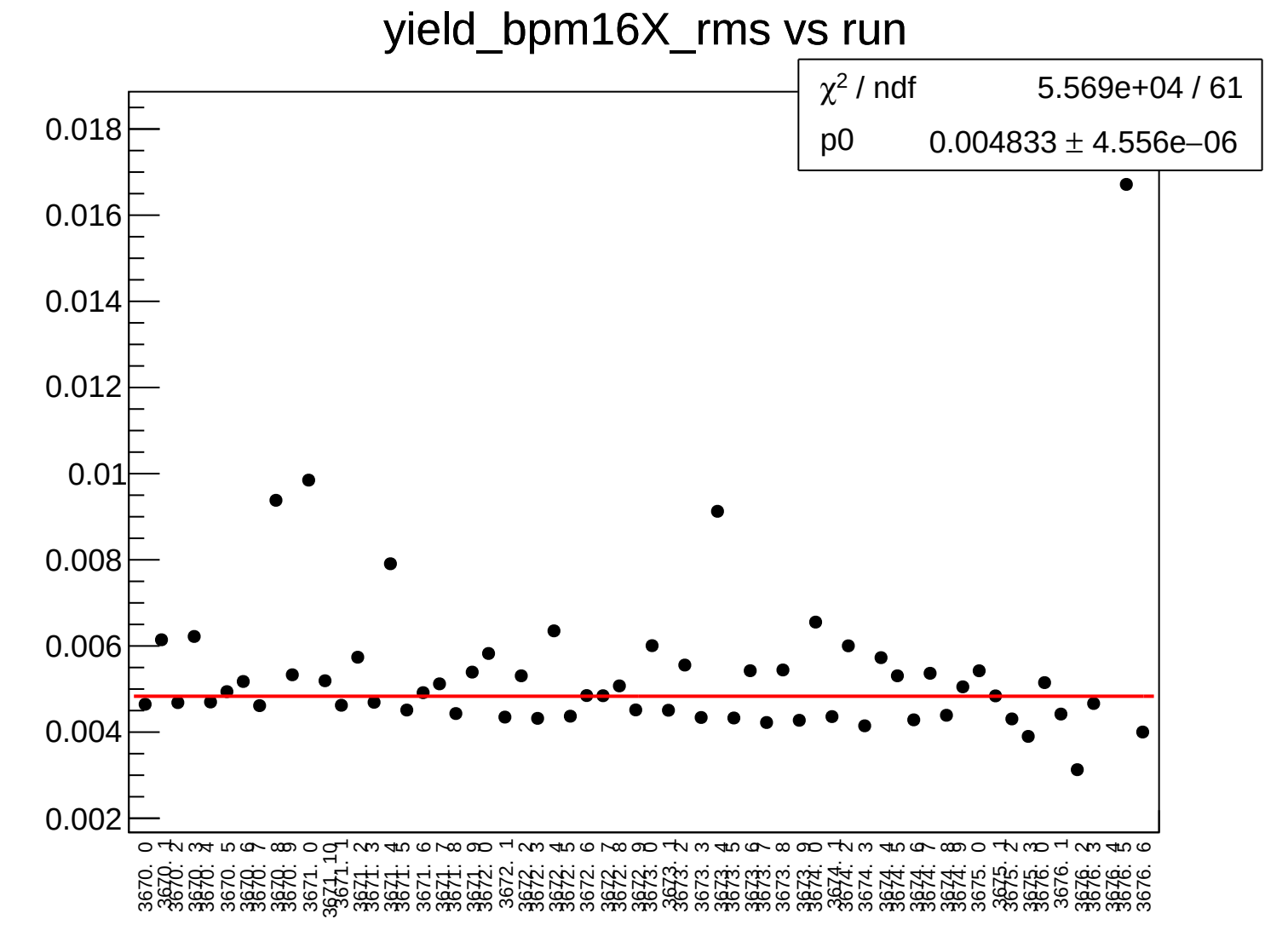

yield_bpm12Y_mean vs run
χ² / ndf 2.145e+06 / 61
p0 1.808 ± 8.876e−06
1.84
1.82
1.8
1.78
1.76
1.74
1.72
pull
Entries 62
Mean 351.9
Std Dev 301.8
400
200
0
−200
−400
−600
−800
−1000

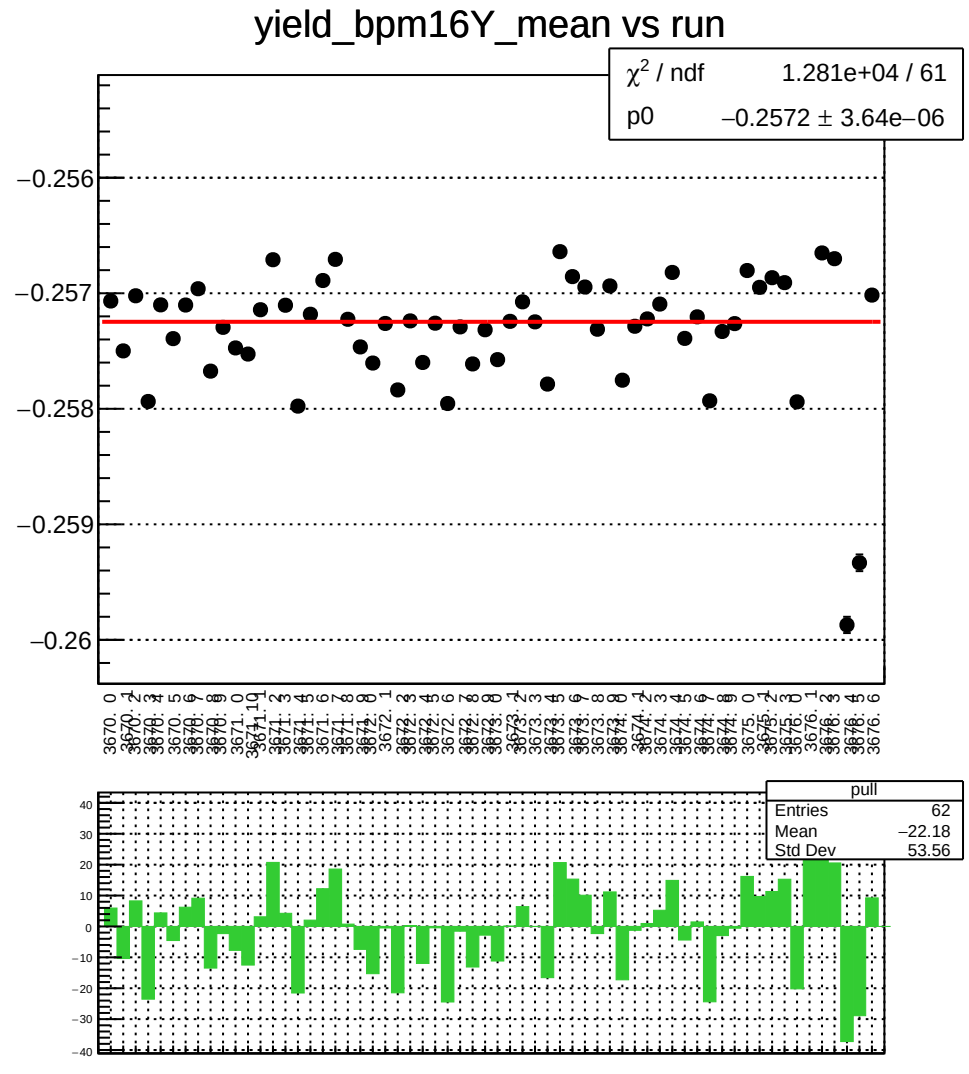

pull1D
Entries 62
Mean −0.2977
Std Dev 3.822
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

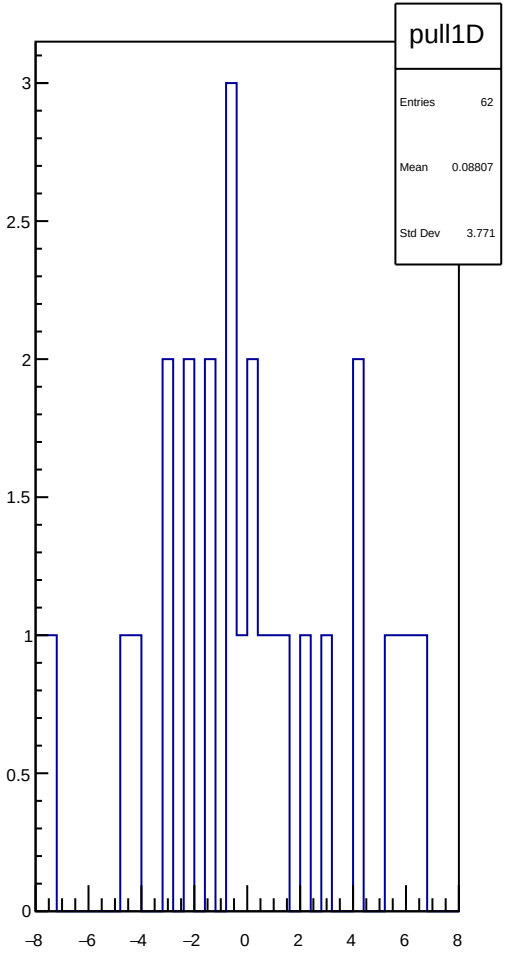

yield_bpm12Y_rms vs run
χ² / ndf 9.263e+04 / 61
p0 0.006548 ± 6.276e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

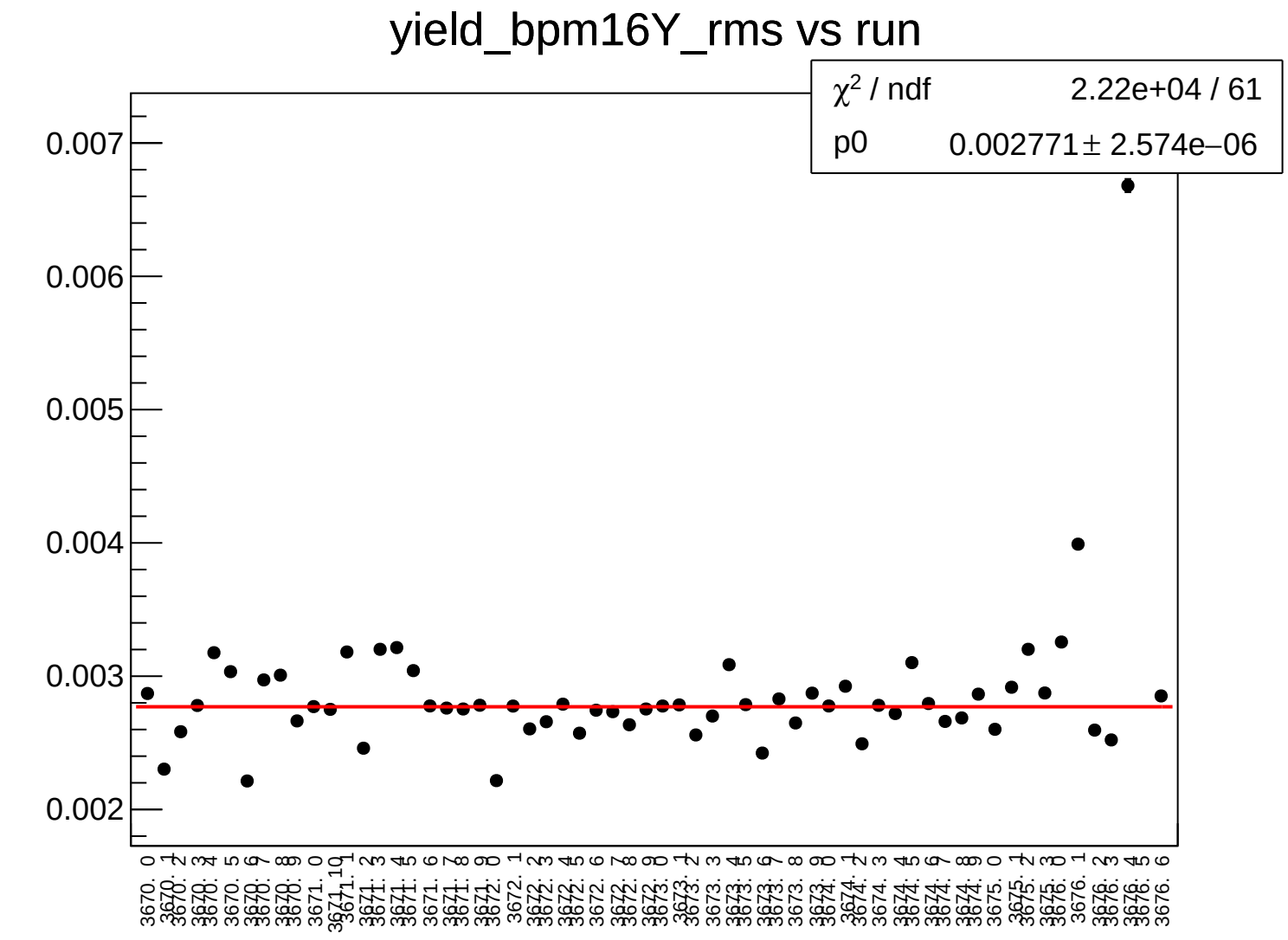

yield_bpm16X_mean vs run
χ² / ndf 6.293e+04 / 61
p0 0.007297 ± 6.443e−06
pull
Entries 62
Mean −10.72
Std Dev 43.77

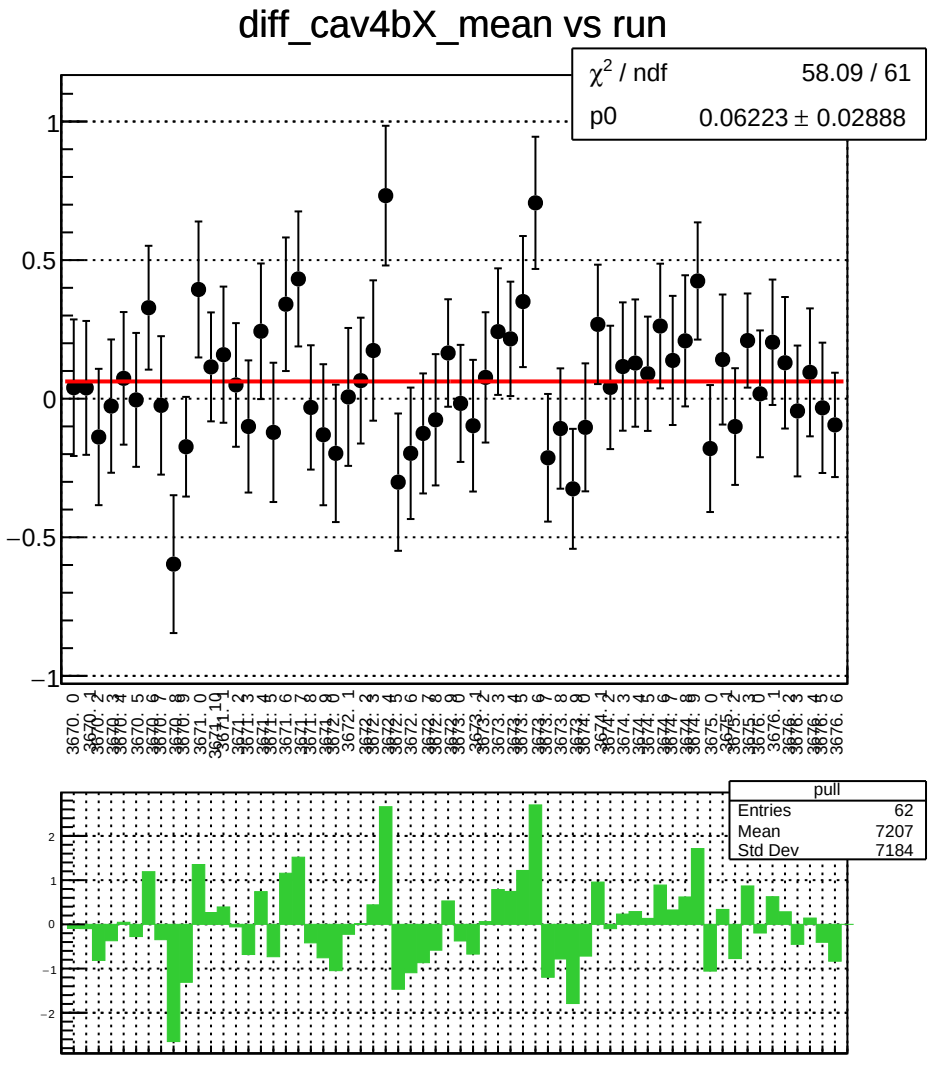

pull1D
Entries 62
Mean −0.4794
Std Dev 3.609

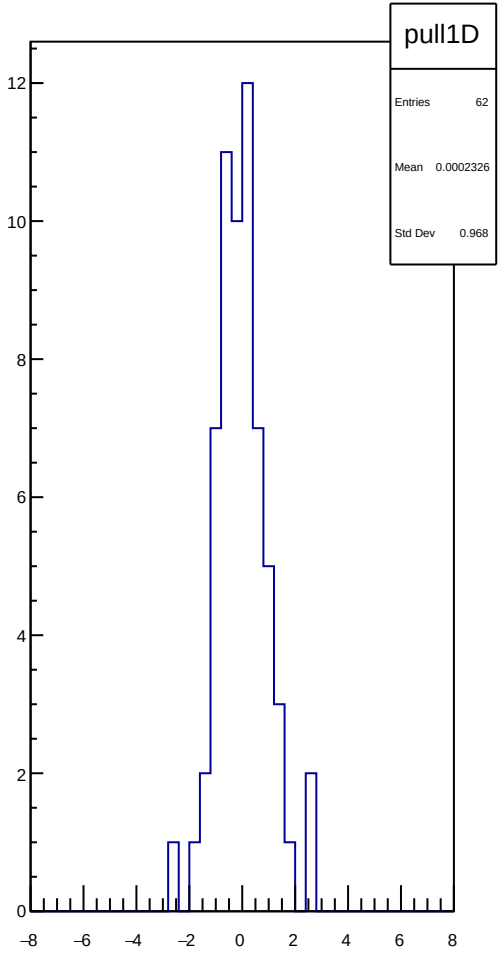

yield_bpm16X_rms vs run
χ² / ndf 5.569e+04 / 61
p0 0.004833 ± 4.556e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

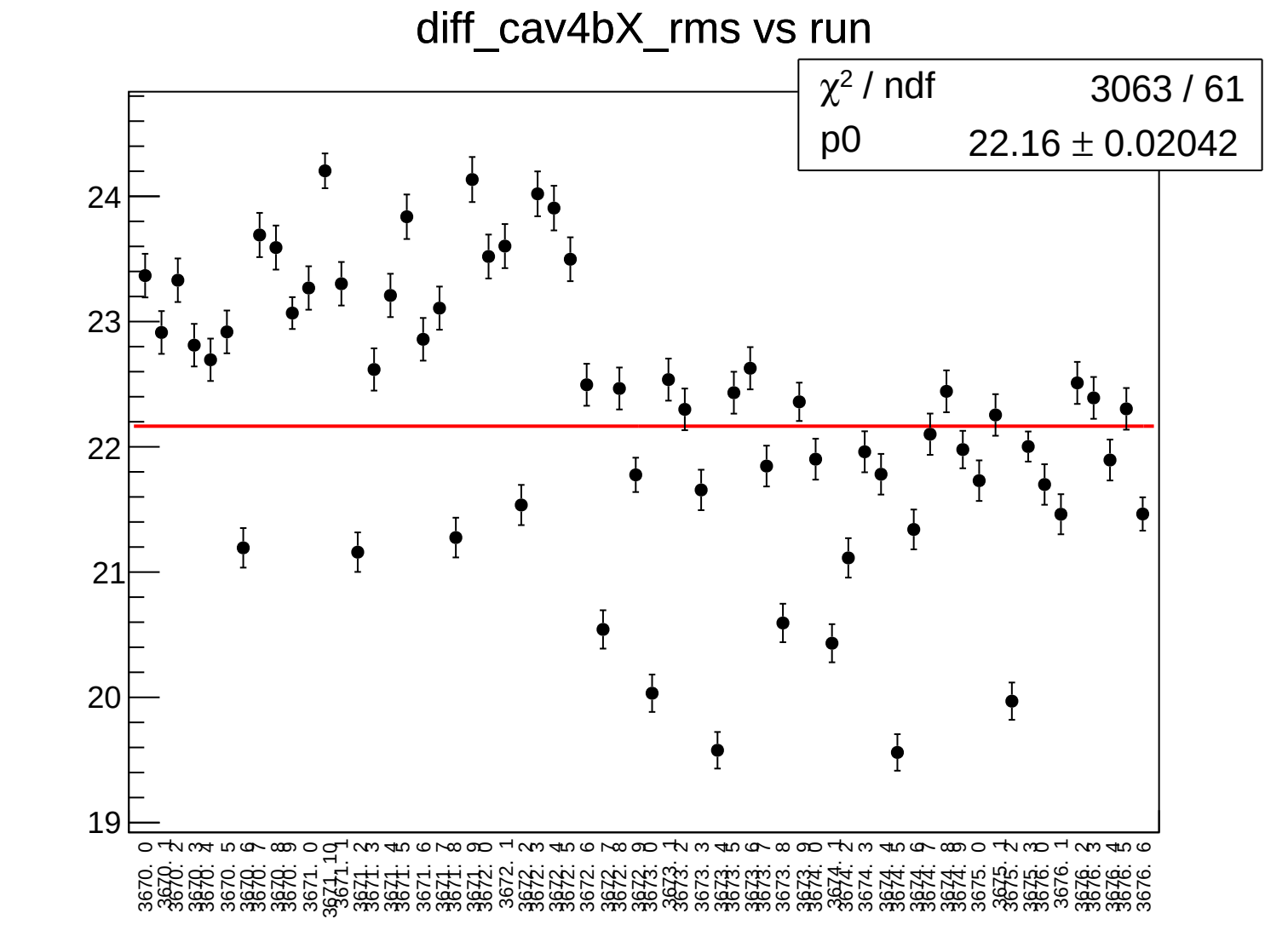

yield_bpm16Y_mean vs run
χ² / ndf 1.281e+04 / 61
p0 −0.2572 ± 3.64e−06
−0.256
−0.257
−0.258
−0.259
−0.26
pull
Entries 62
Mean −22.18
Std Dev 53.56

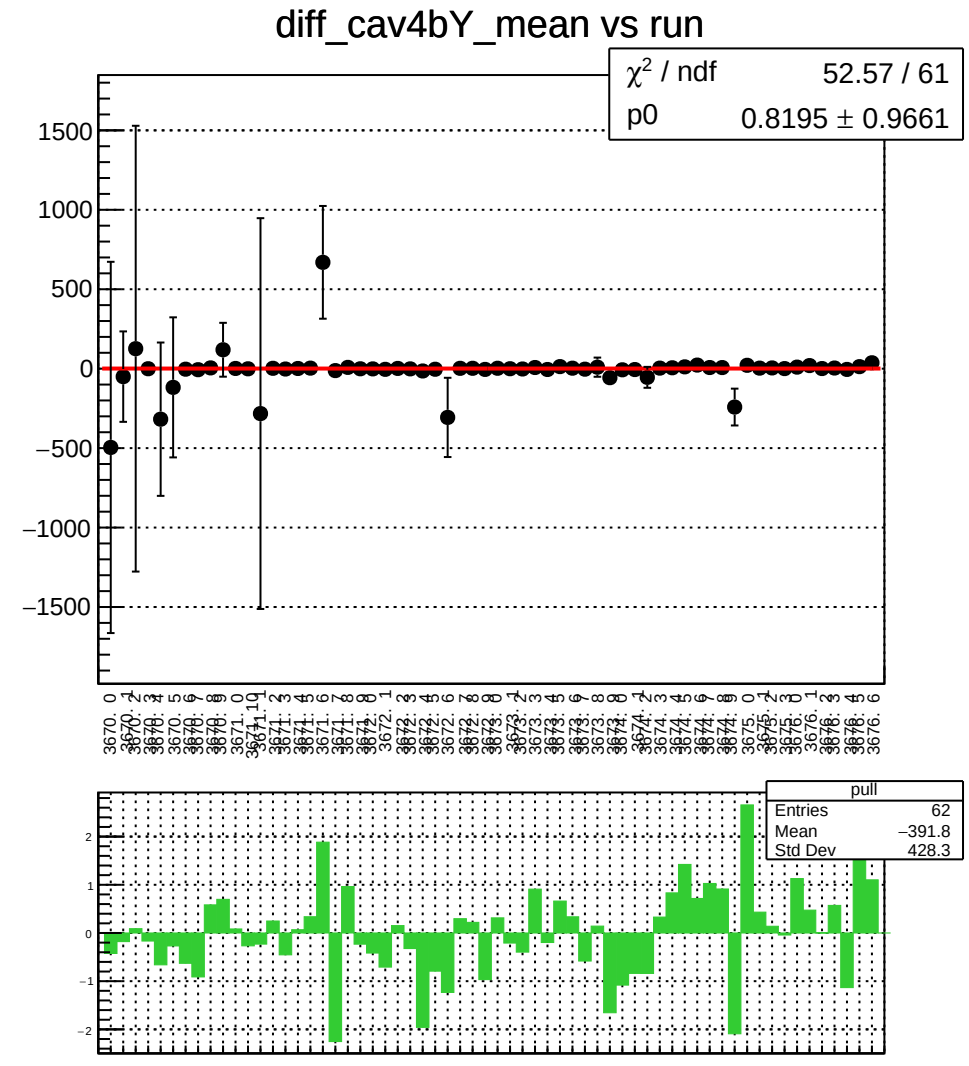

pull1D
Entries 62
Mean 0.08807
Std Dev 3.771

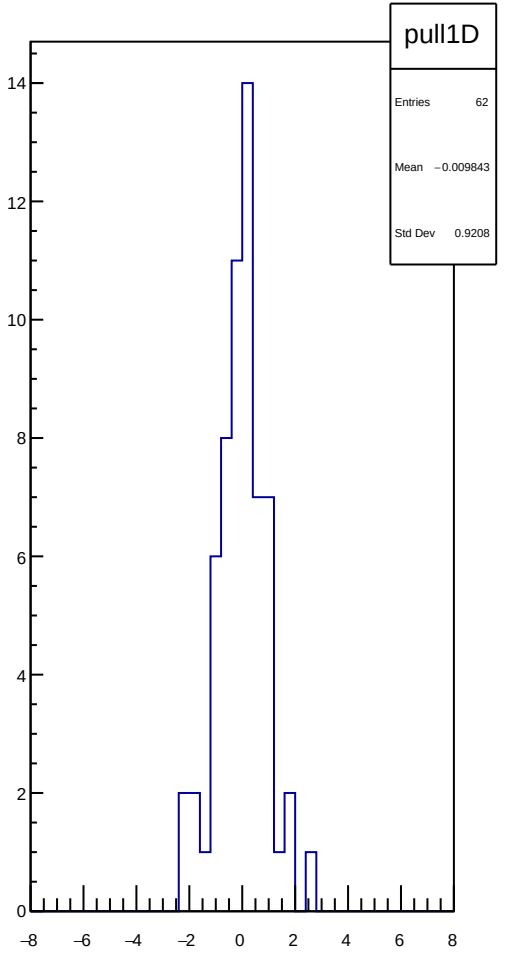

yield_bpm16Y_rms vs run
χ² / ndf 2.22e+04 / 61
p0 0.002771 ± 2.574e−06
0.007
0.006
0.005
0.004
0.003
0.002

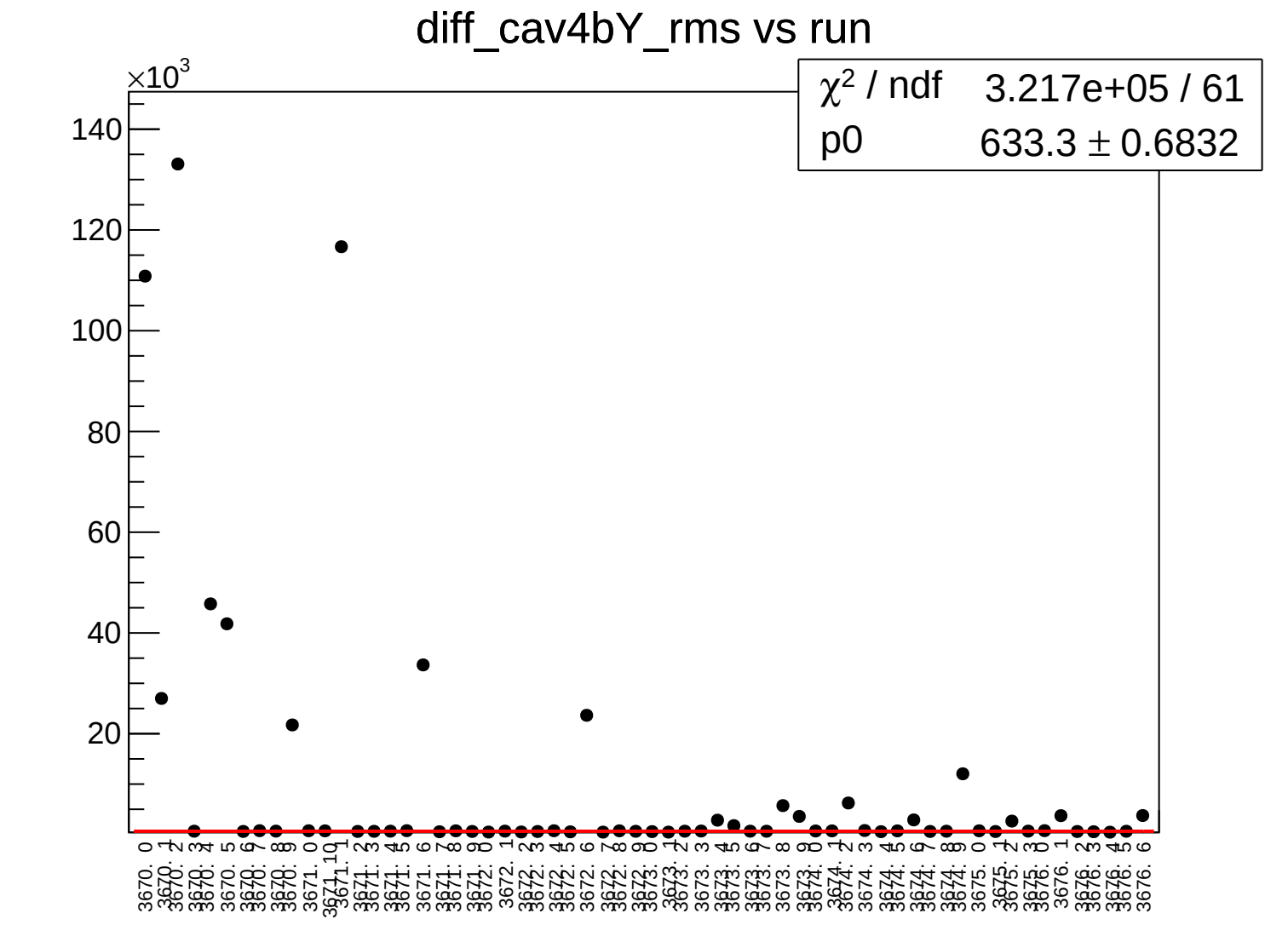

diff_cav4bX_mean vs run
χ^2 / ndf 58.09 / 61
p0 0.06223 ± 0.02888
pull
Entries 62
Mean 7207
Std Dev 7184

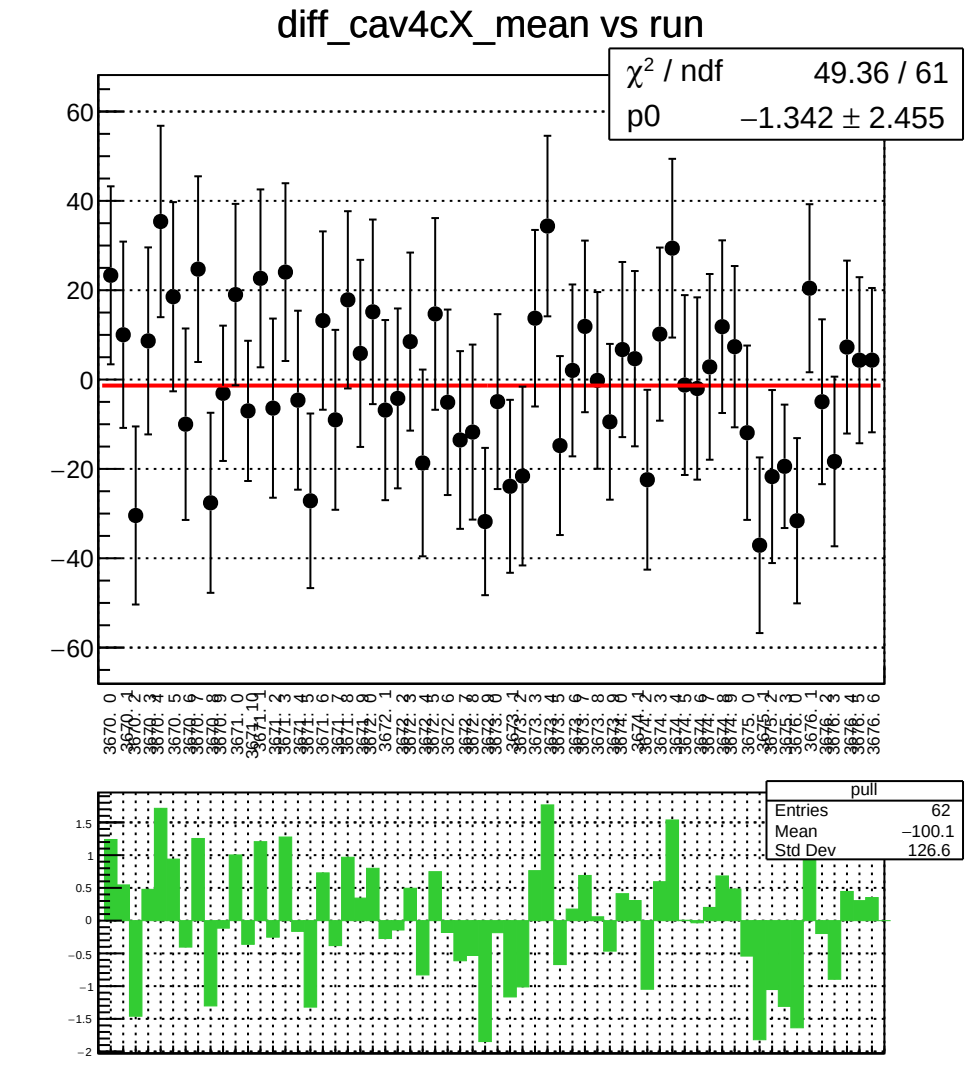

pull1D
Entries 62
Mean 0.0002326
Std Dev 0.968

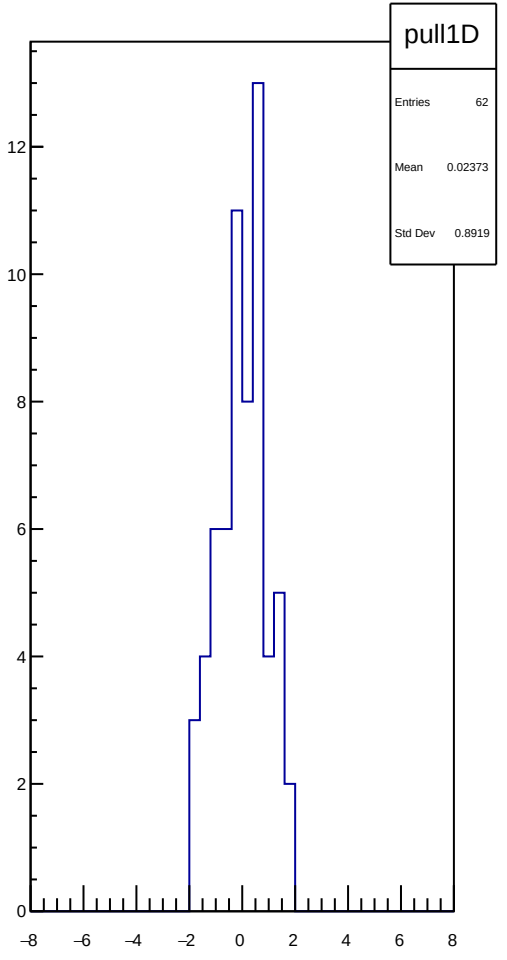

diff_cav4bX_rms vs run
χ² / ndf 3063 / 61
p0 22.16 ± 0.02042
24
23
22
21
20
19

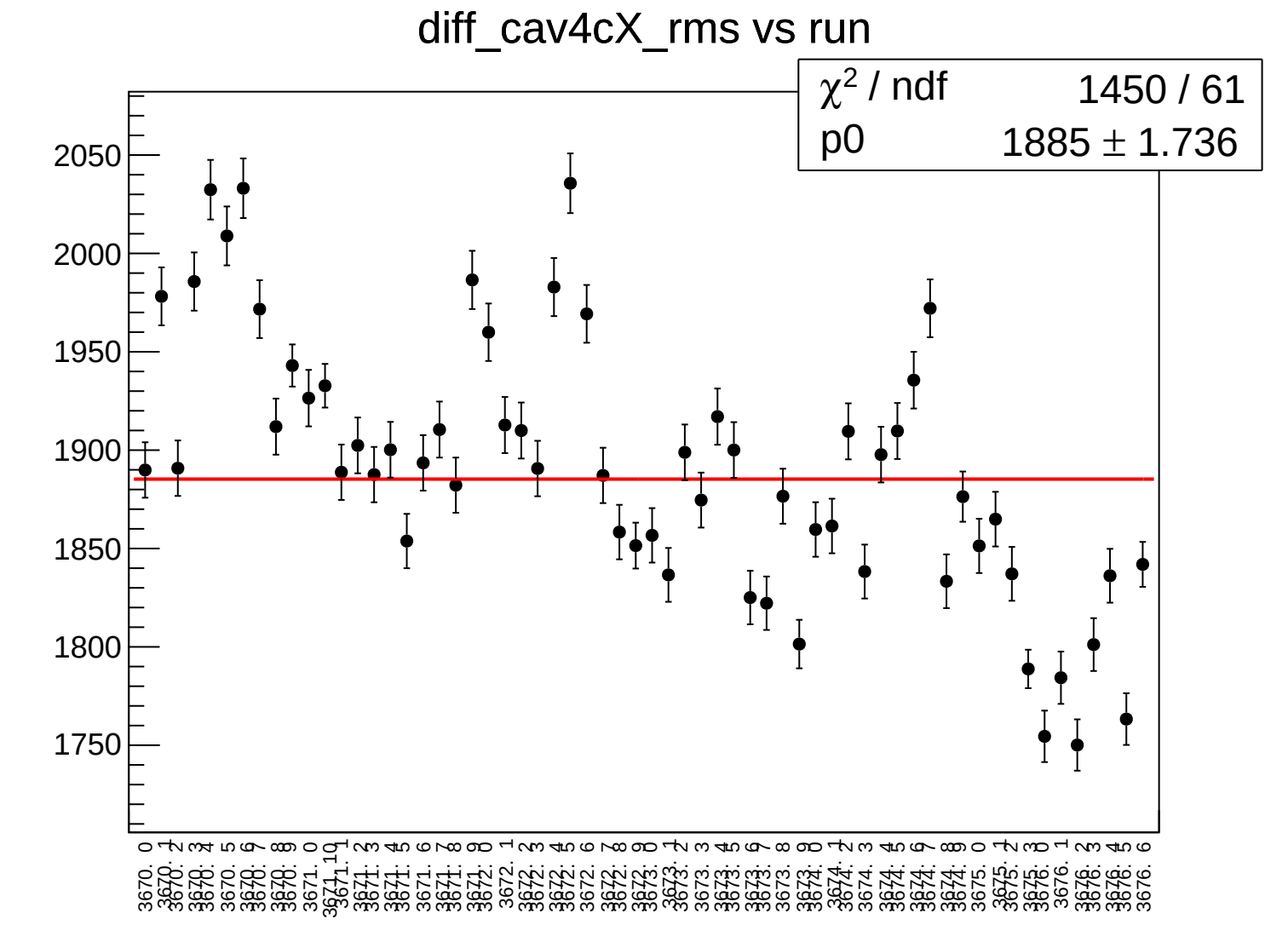

diff_cav4bY_mean vs run
χ² / ndf 52.57 / 61
p0 0.8195 ± 0.9661
pull
Entries 62
Mean −391.8
Std Dev 428.3

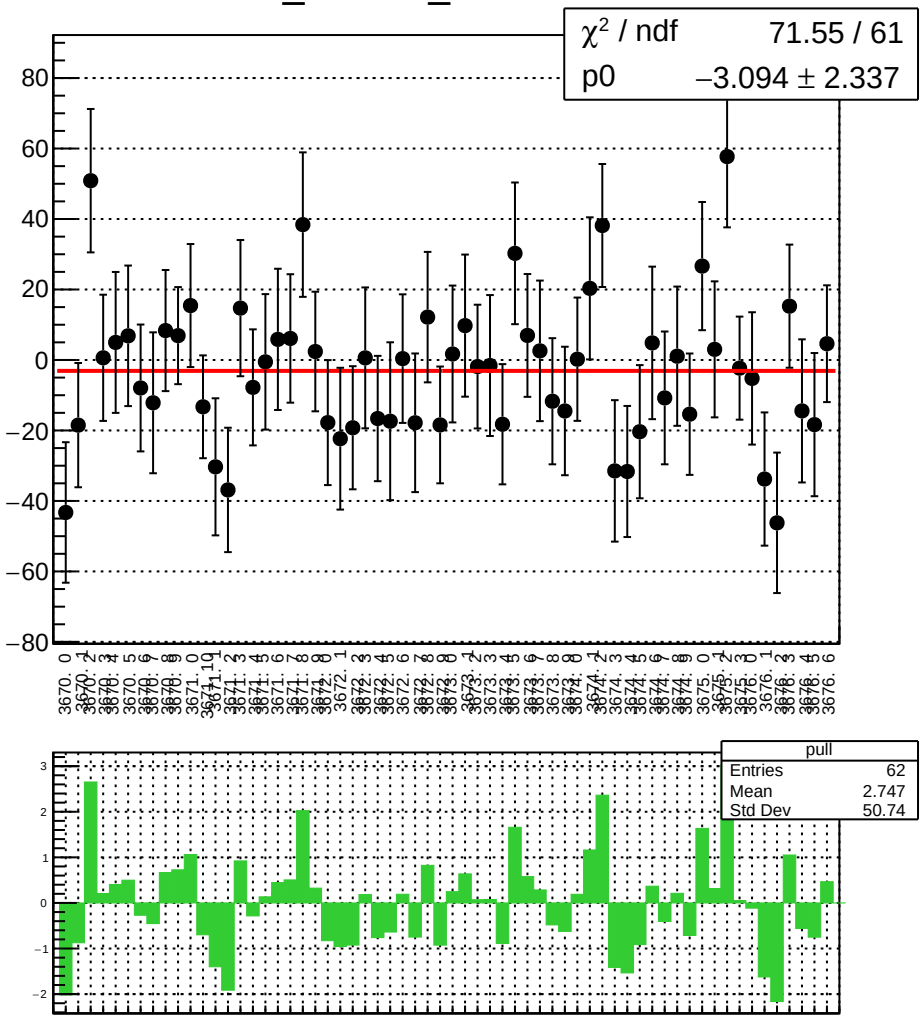

pull1D
Entries 62
Mean −0.009843
Std Dev 0.9208

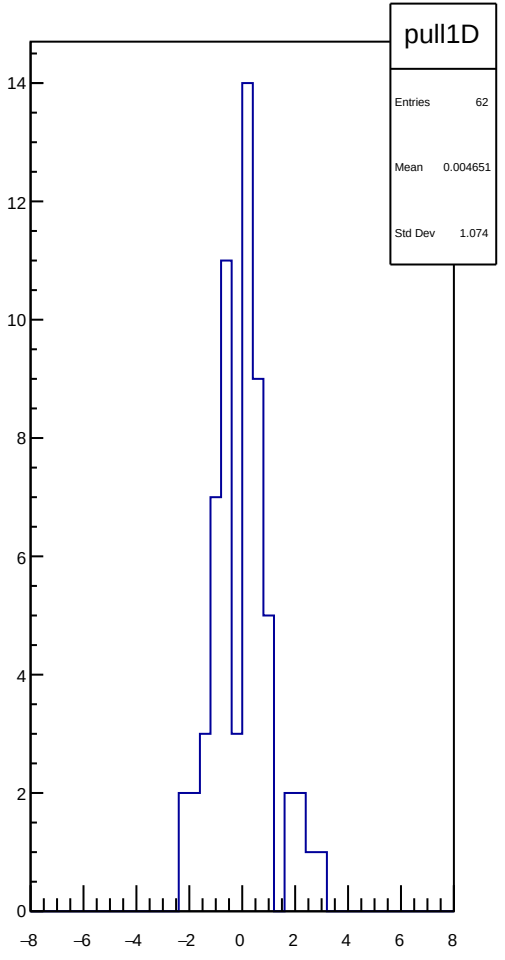

diff_cav4bY_rms vs run
×10^3
χ² / ndf 3.217e+05 / 61
p0 633.3 ± 0.6832
140
120
100
80
60
40
20

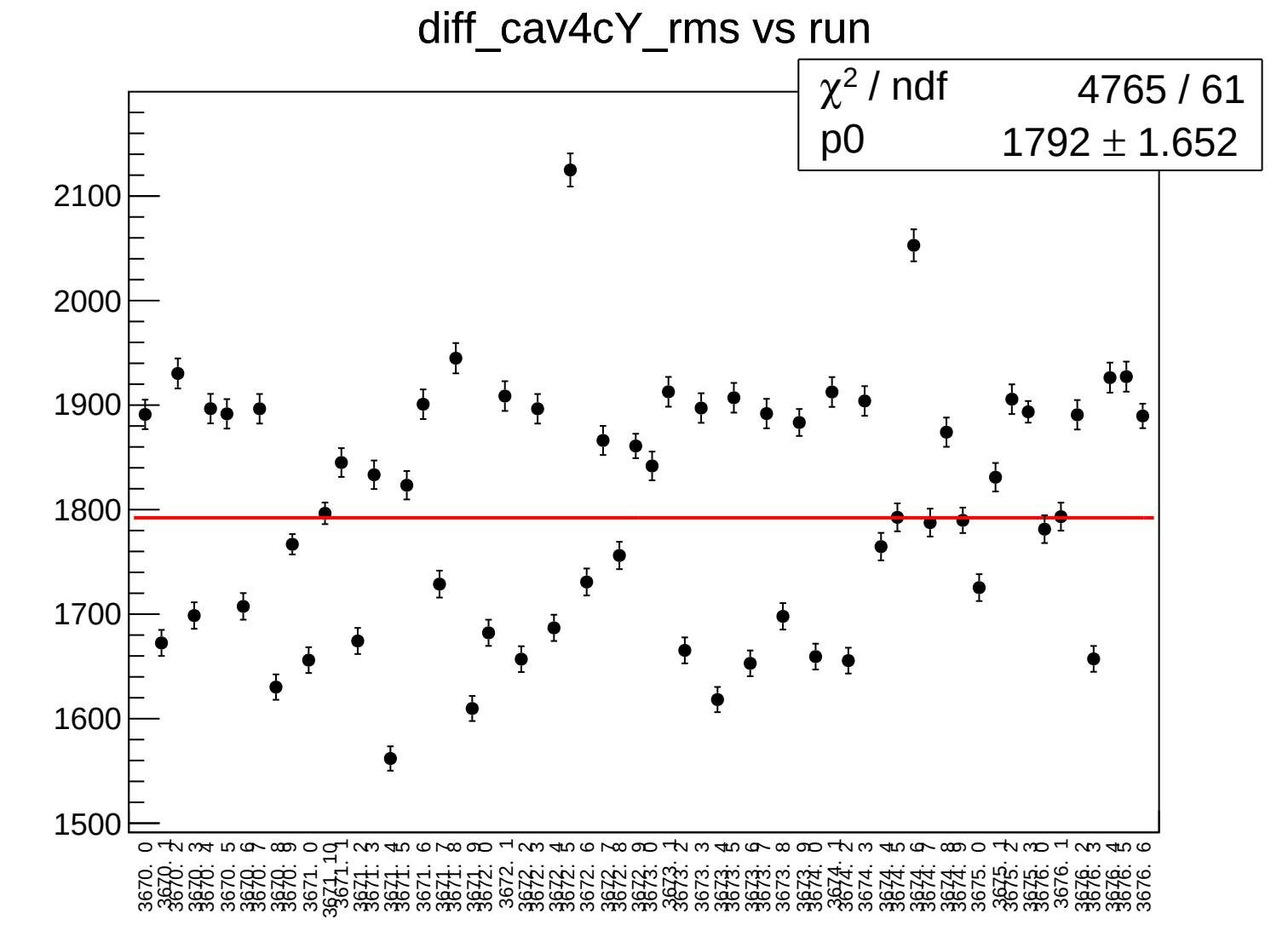

diff_cav4cX_mean vs run
χ² / ndf 49.36 / 61
p0 −1.342 ± 2.455
pull
Entries 62
Mean −100.1
Std Dev 126.6

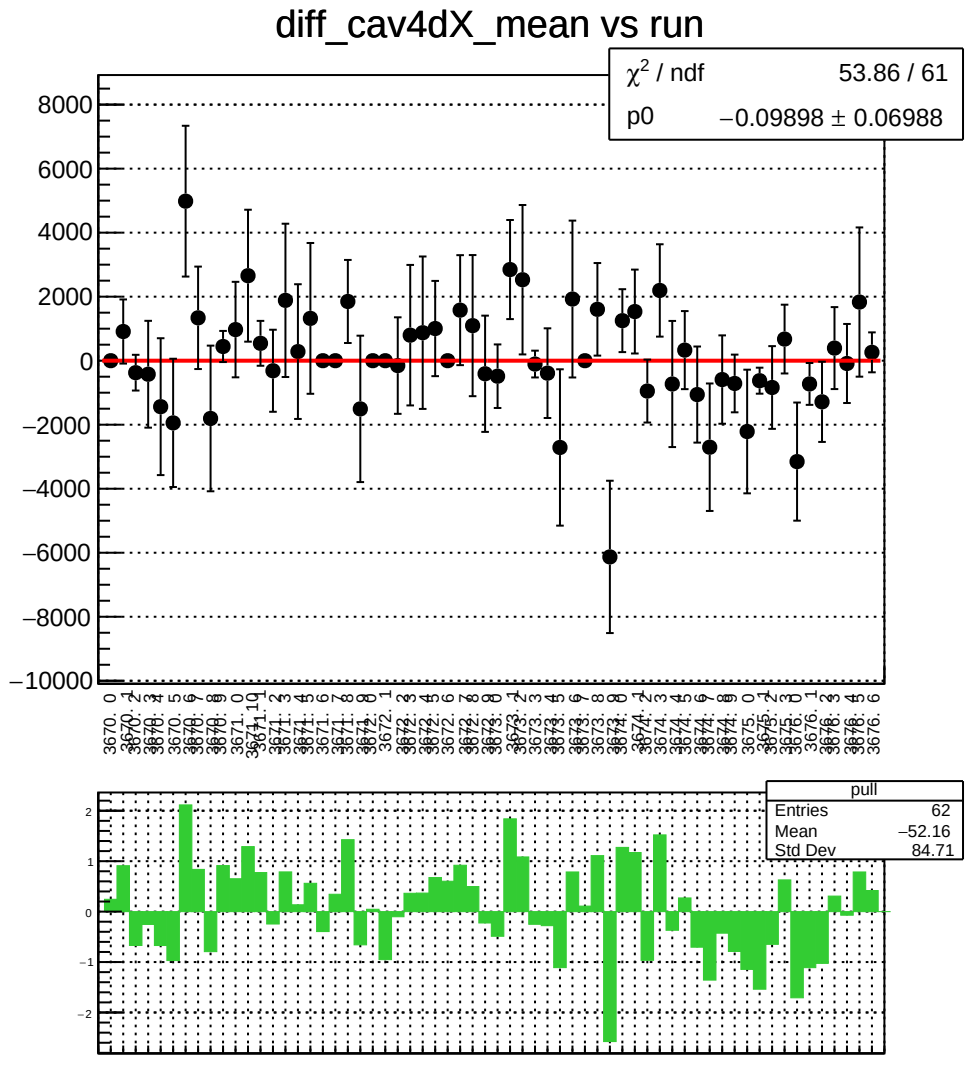

pull1D
Entries 62
Mean 0.02373
Std Dev 0.8919

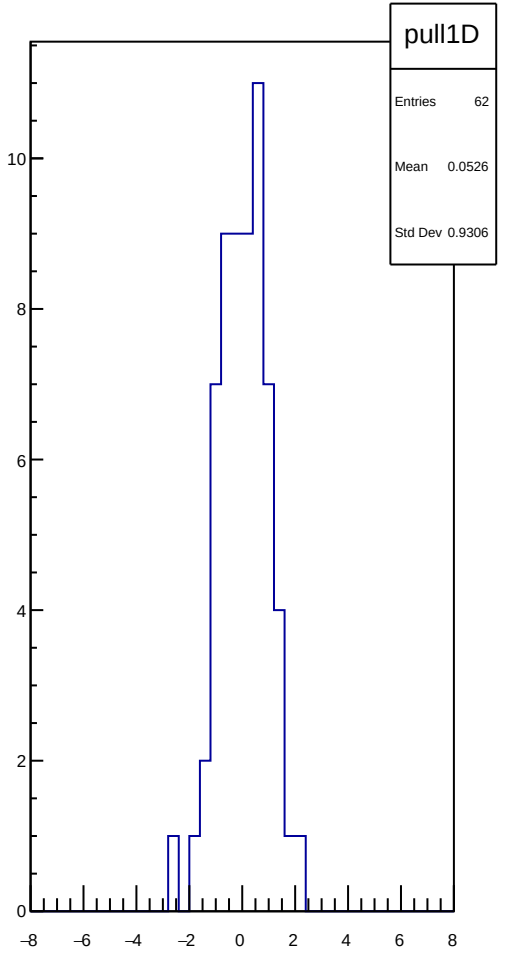

diff_cav4cX_rms vs run
χ² / ndf 1450 / 61
p0 1885 ± 1.736
2050
2000
1950
1900
1850
1800
1750

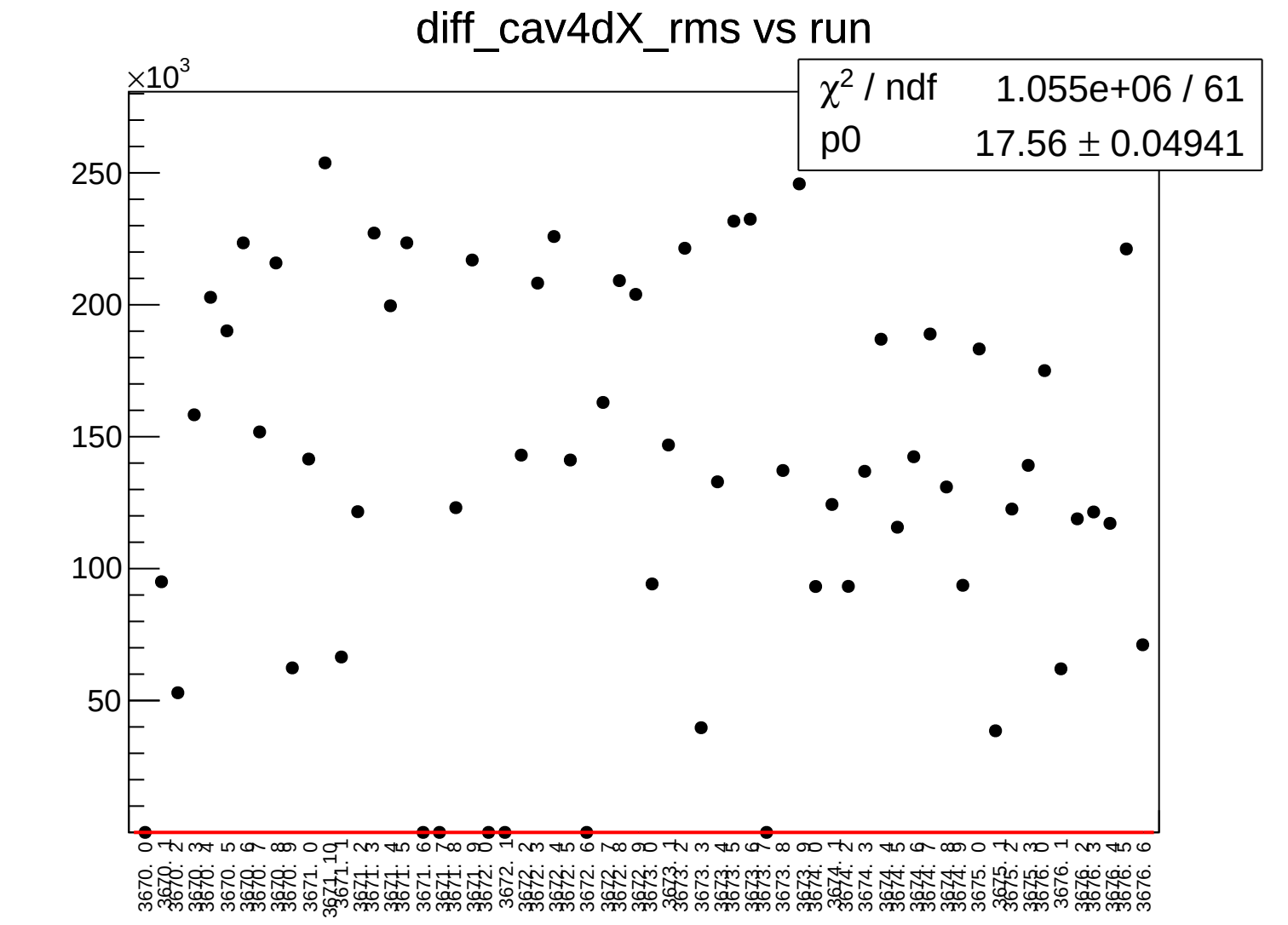

diff_cav4cY_mean vs run
χ² / ndf 71.55 / 61
p0 −3.094 ± 2.337
pull
Entries 62
Mean 2.747
Std Dev 50.74

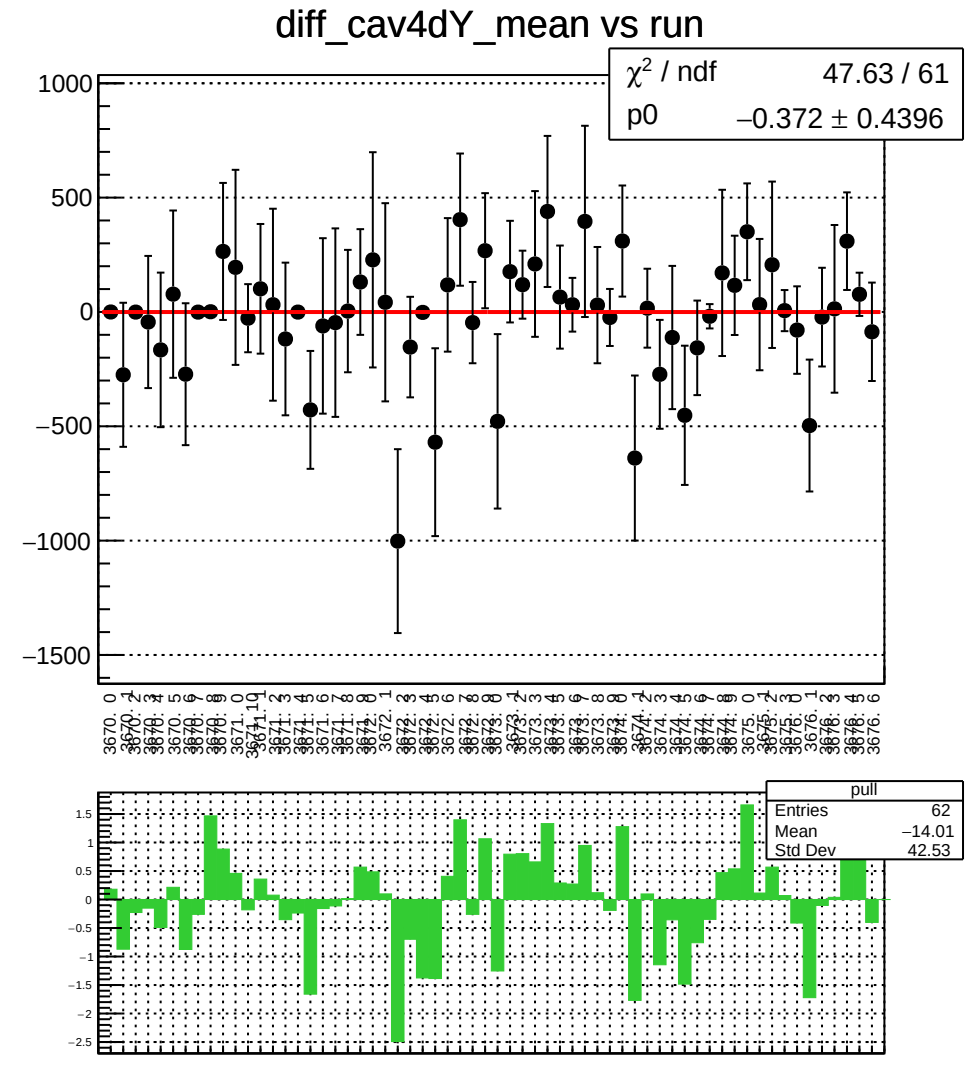

pull1D
Entries 62
Mean 0.004651
Std Dev 1.074

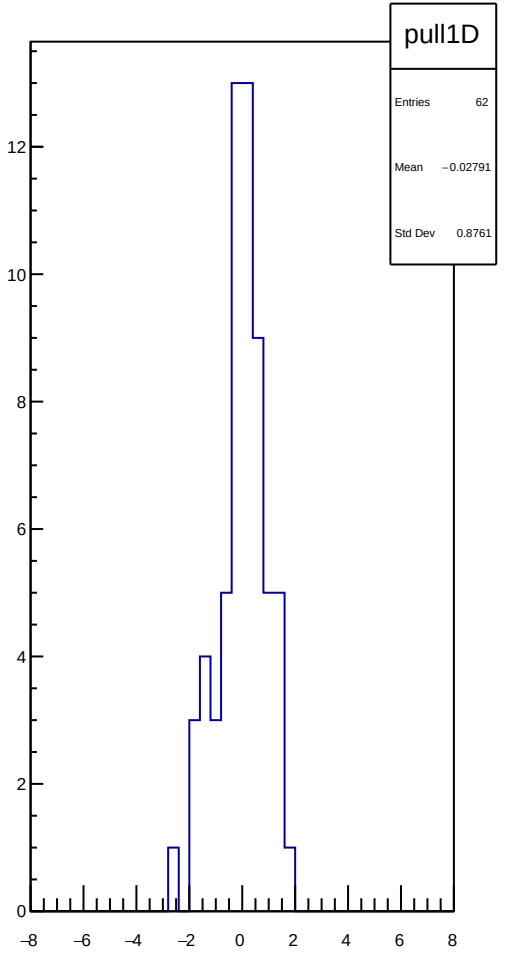

diff_cav4cY_rms vs run
χ² / ndf 4765 / 61
p0 1792 ± 1.652
2100
2000
1900
1800
1700
1600
1500
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

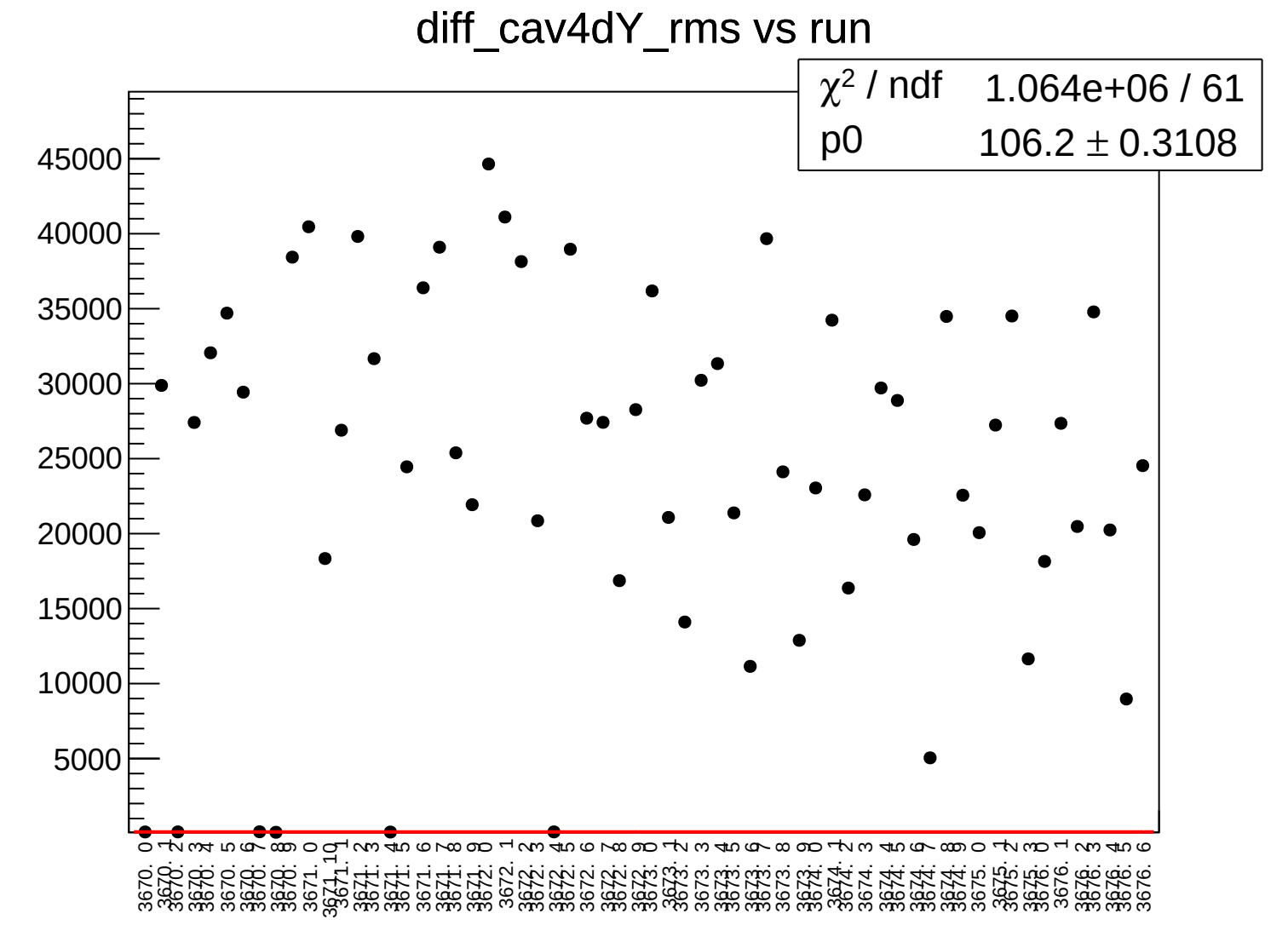

diff_cav4dX_mean vs run
χ² / ndf 53.86 / 61
p0 −0.09898 ± 0.06988
pull
Entries 62
Mean −52.16
Std Dev 84.71

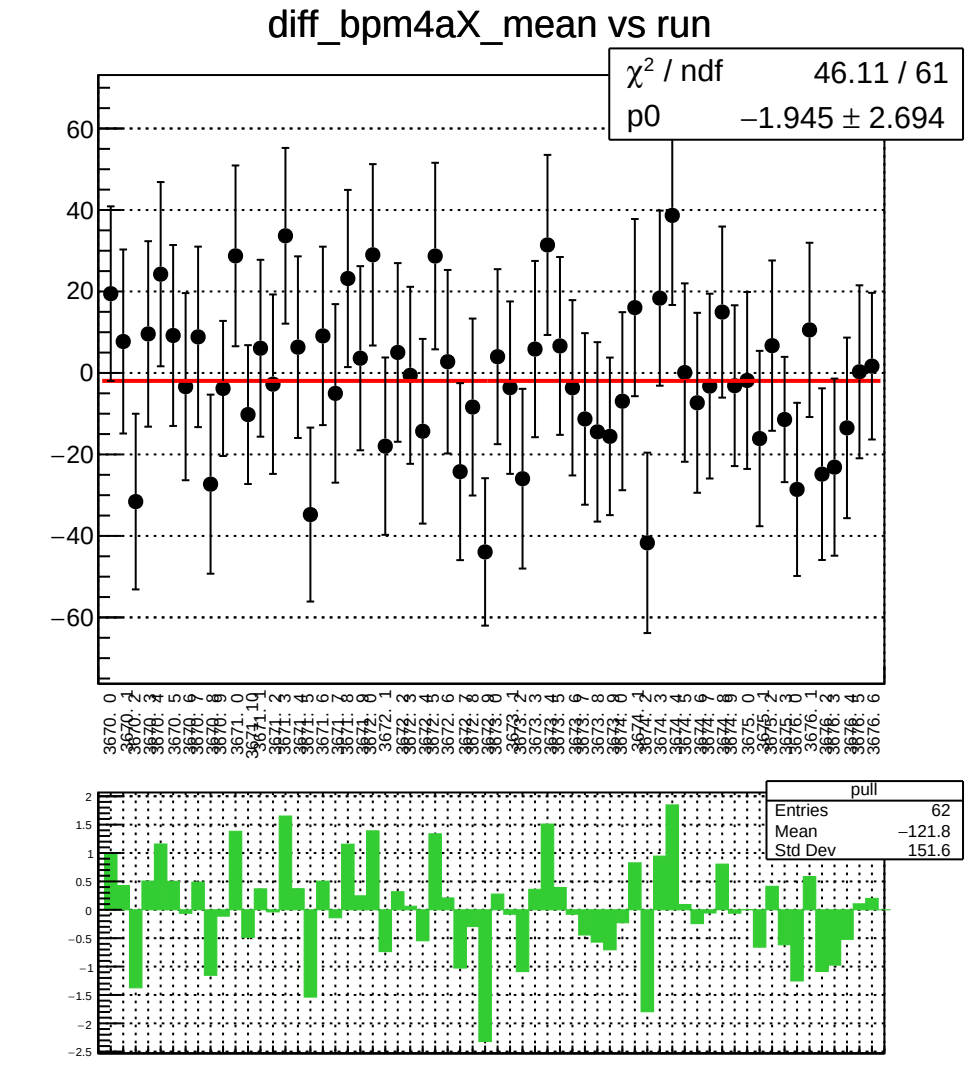

pull1D
Entries 62
Mean 0.0526
Std Dev 0.9306

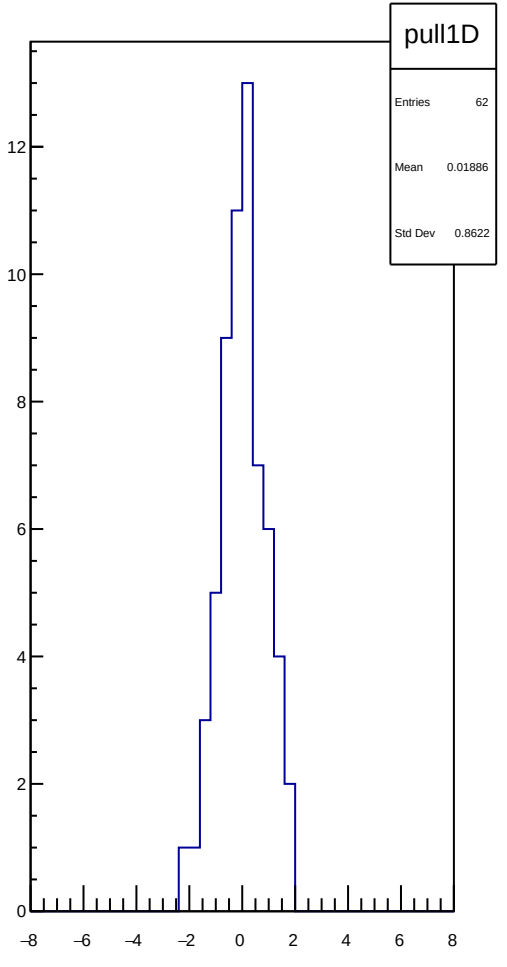

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 1.055e+06 / 61
p0 17.56 ± 0.04941
250
200
150
100
50

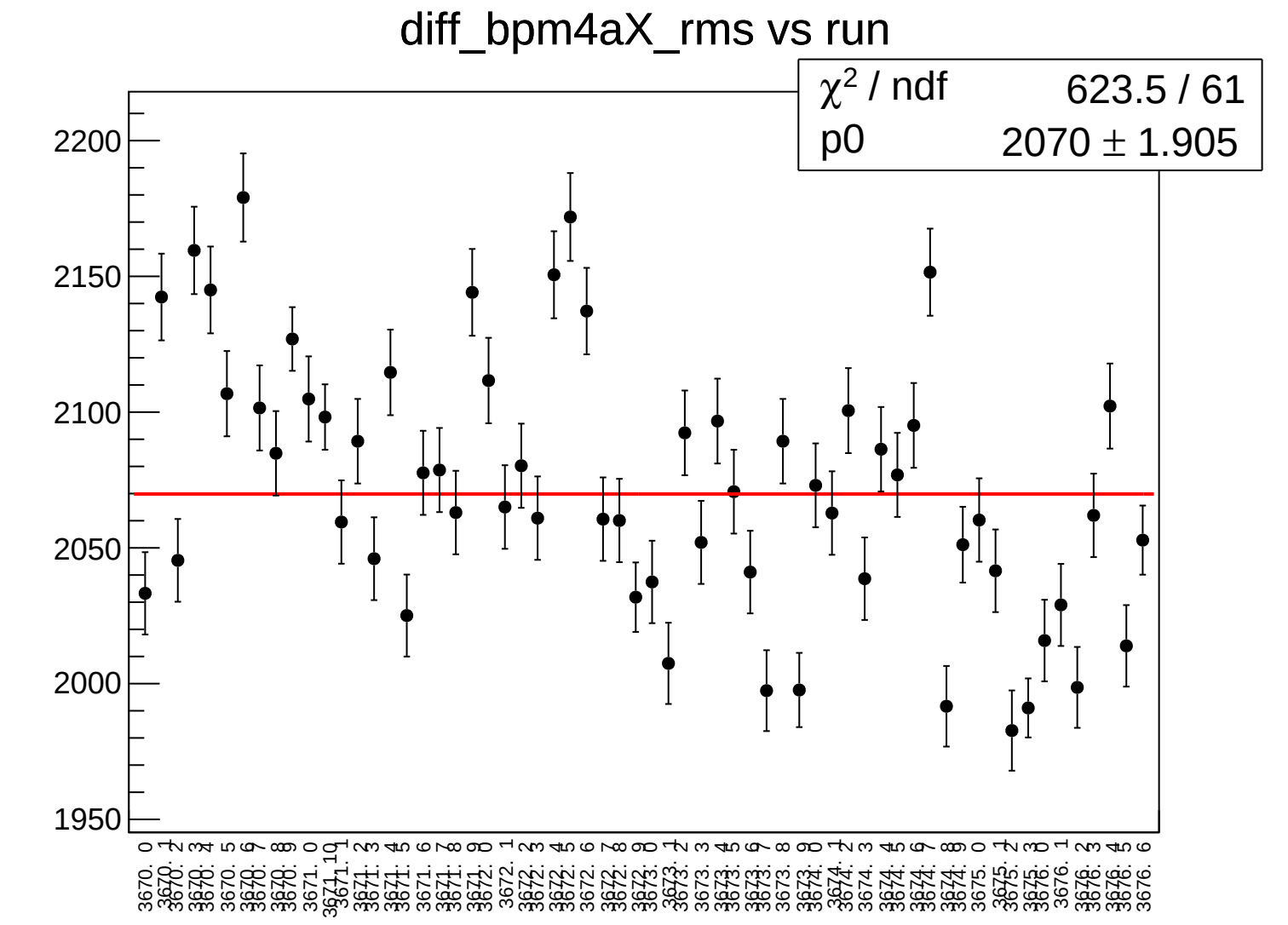

diff_cav4dY_mean vs run
χ² / ndf 47.63 / 61
p0 −0.372 ± 0.4396
pull
Entries 62
Mean −14.01
Std Dev 42.53

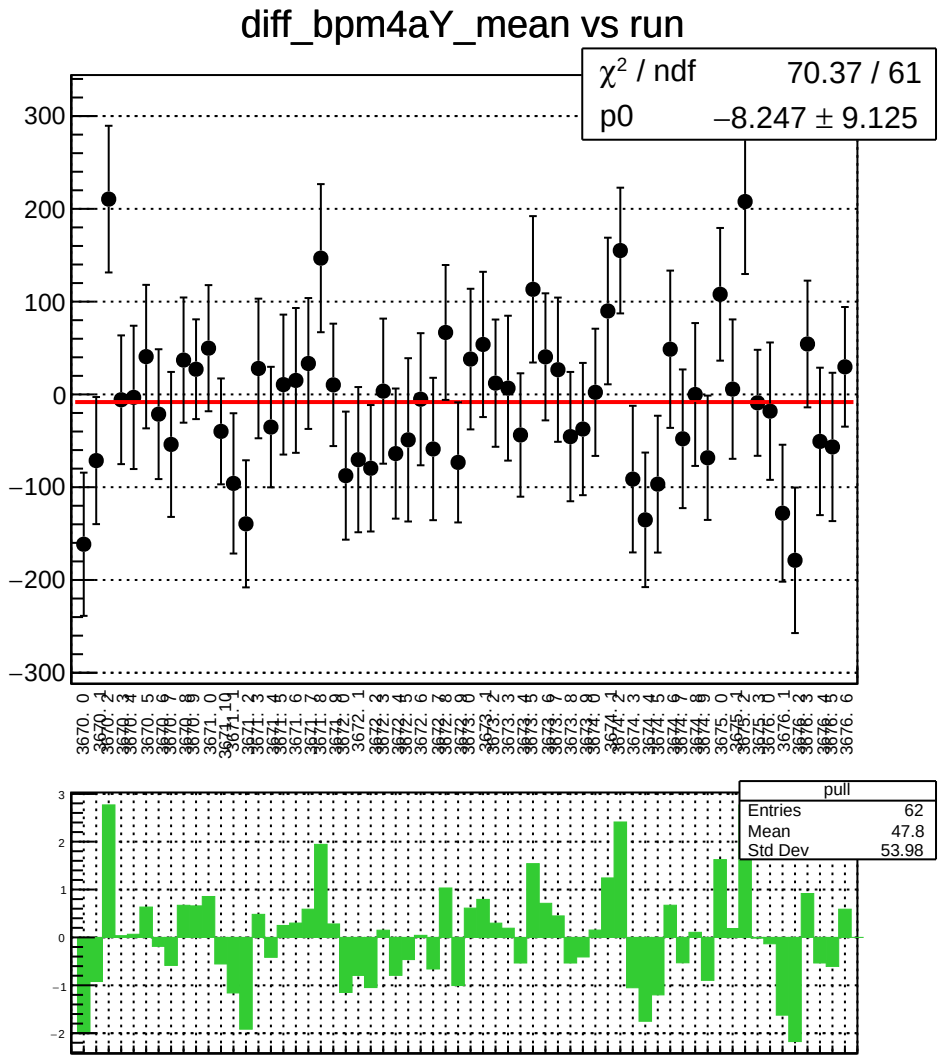

pull1D
Entries 62
Mean −0.02791
Std Dev 0.8761

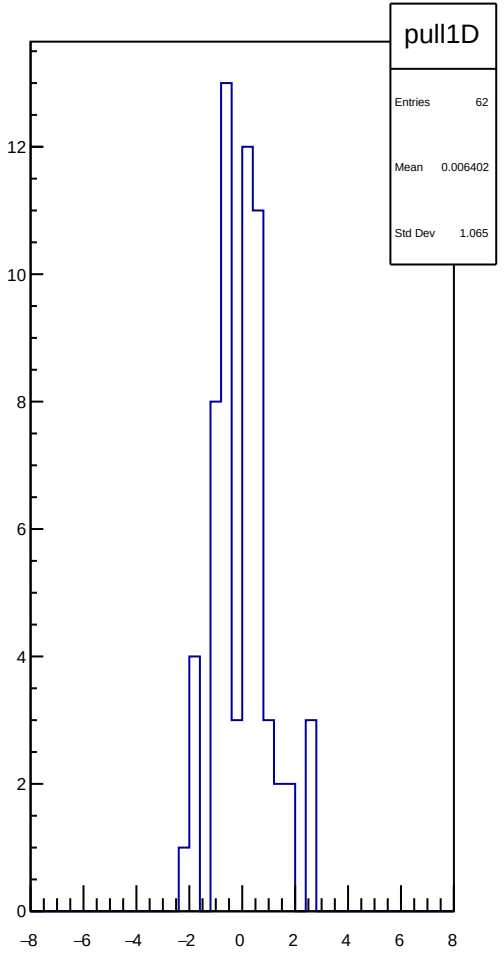

diff_cav4dY_rms vs run
χ² / ndf 1.064e+06 / 61
p0 106.2 ± 0.3108
45000
40000
35000
30000
25000
20000
15000
10000
5000
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3675. 4
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

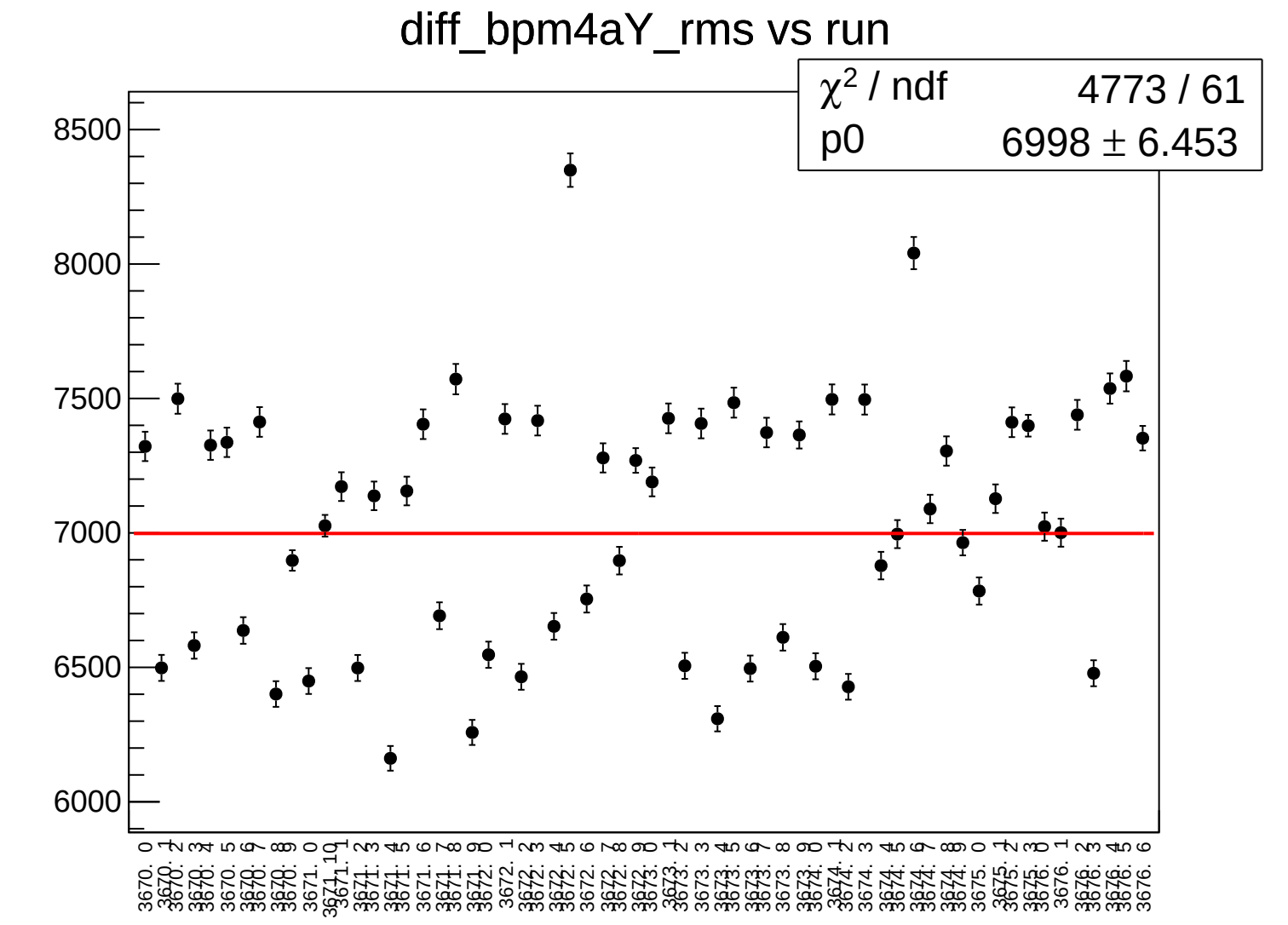

diff_bpm4aX_mean vs run
χ² / ndf 46.11 / 61
p0 −1.945 ± 2.694
pull
Entries 62
Mean −121.8
Std Dev 151.6

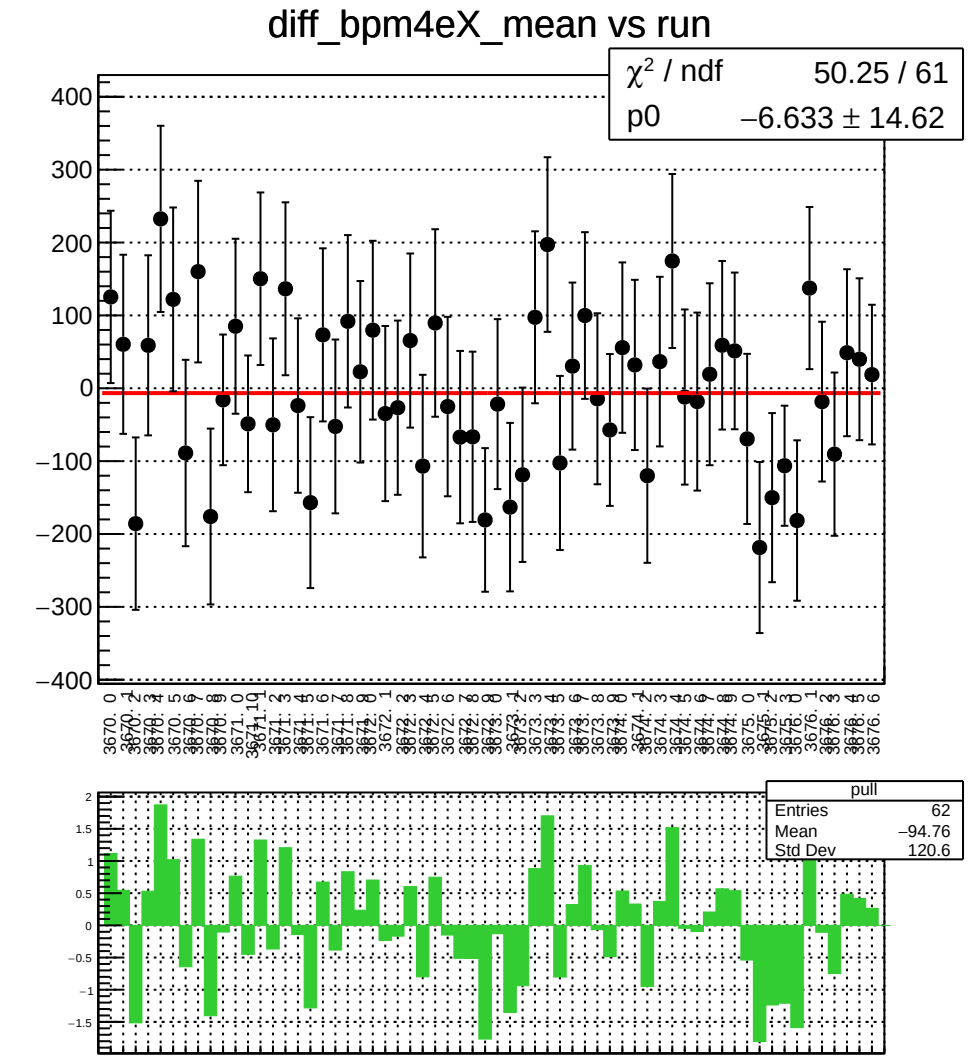

pull1D
Entries 62
Mean 0.01886
Std Dev 0.8622

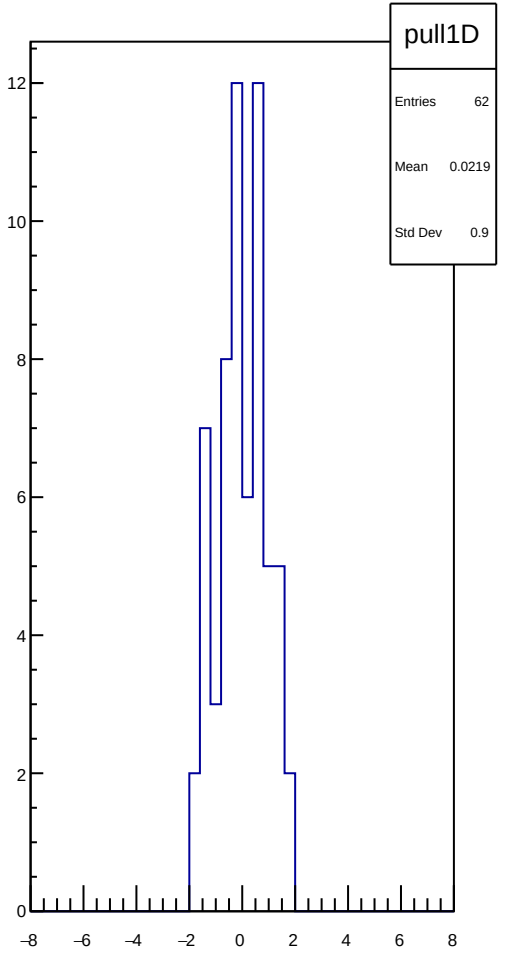

diff_bpm4aX_rms vs run
χ² / ndf 623.5 / 61
p0 2070 ± 1.905
2200
2150
2100
2050
2000
1950

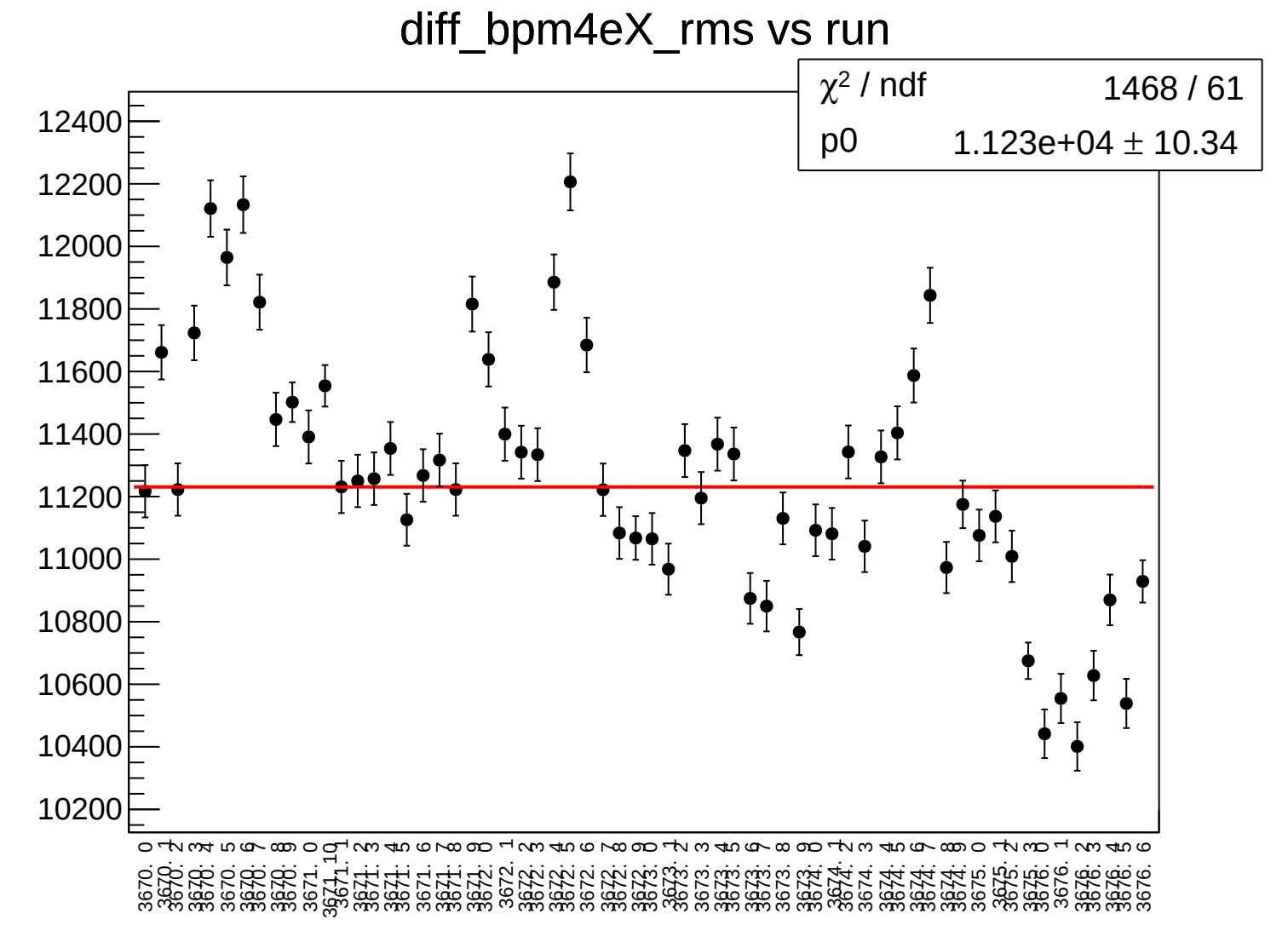

diff_bpm4aY_mean vs run
χ² / ndf 70.37 / 61
p0 −8.247 ± 9.125
pull
Entries 62
Mean 47.8
Std Dev 53.98

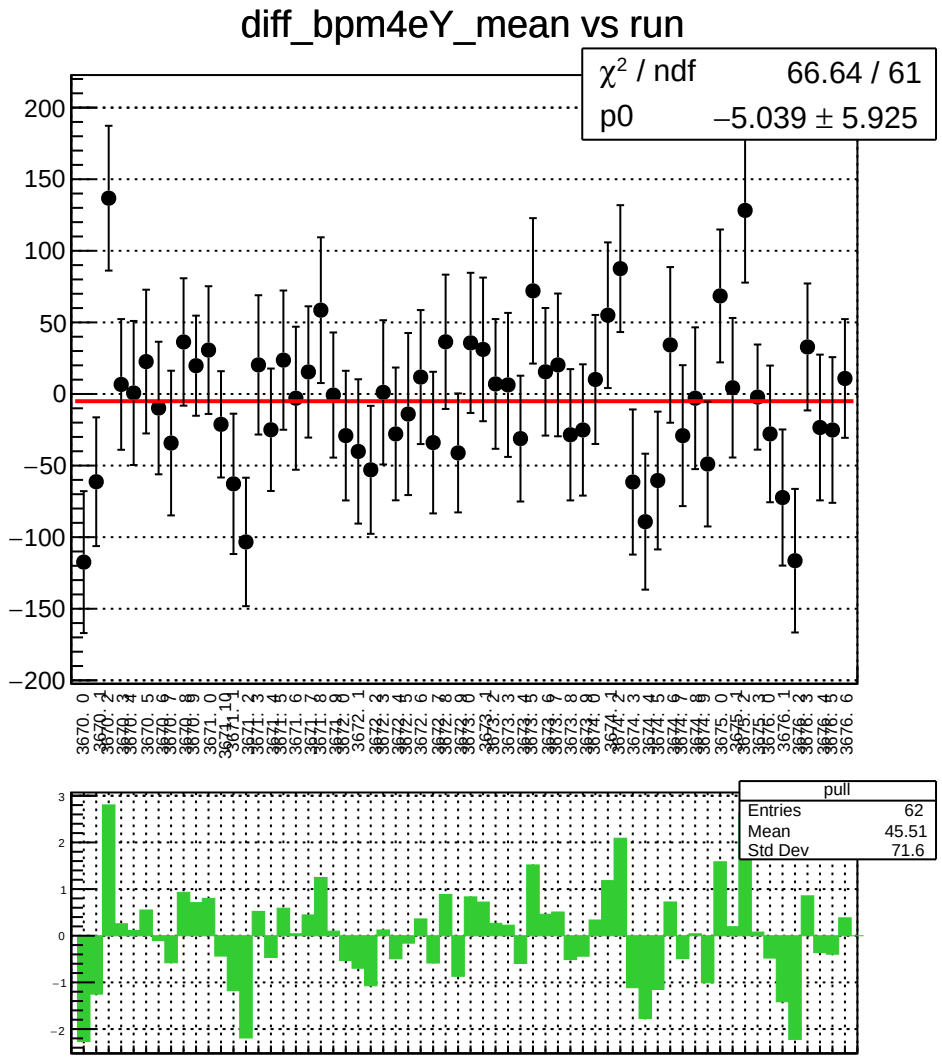

pull1D
Entries 62
Mean 0.006402
Std Dev 1.065

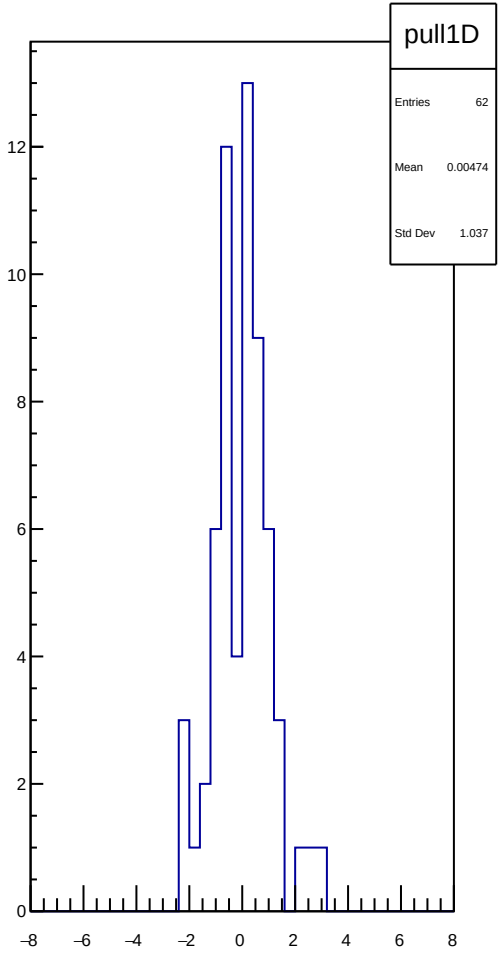

diff_bpm4aY_rms vs run
χ² / ndf 4773 / 61
p0 6998 ± 6.453
8500
8000
7500
7000
6500
6000
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

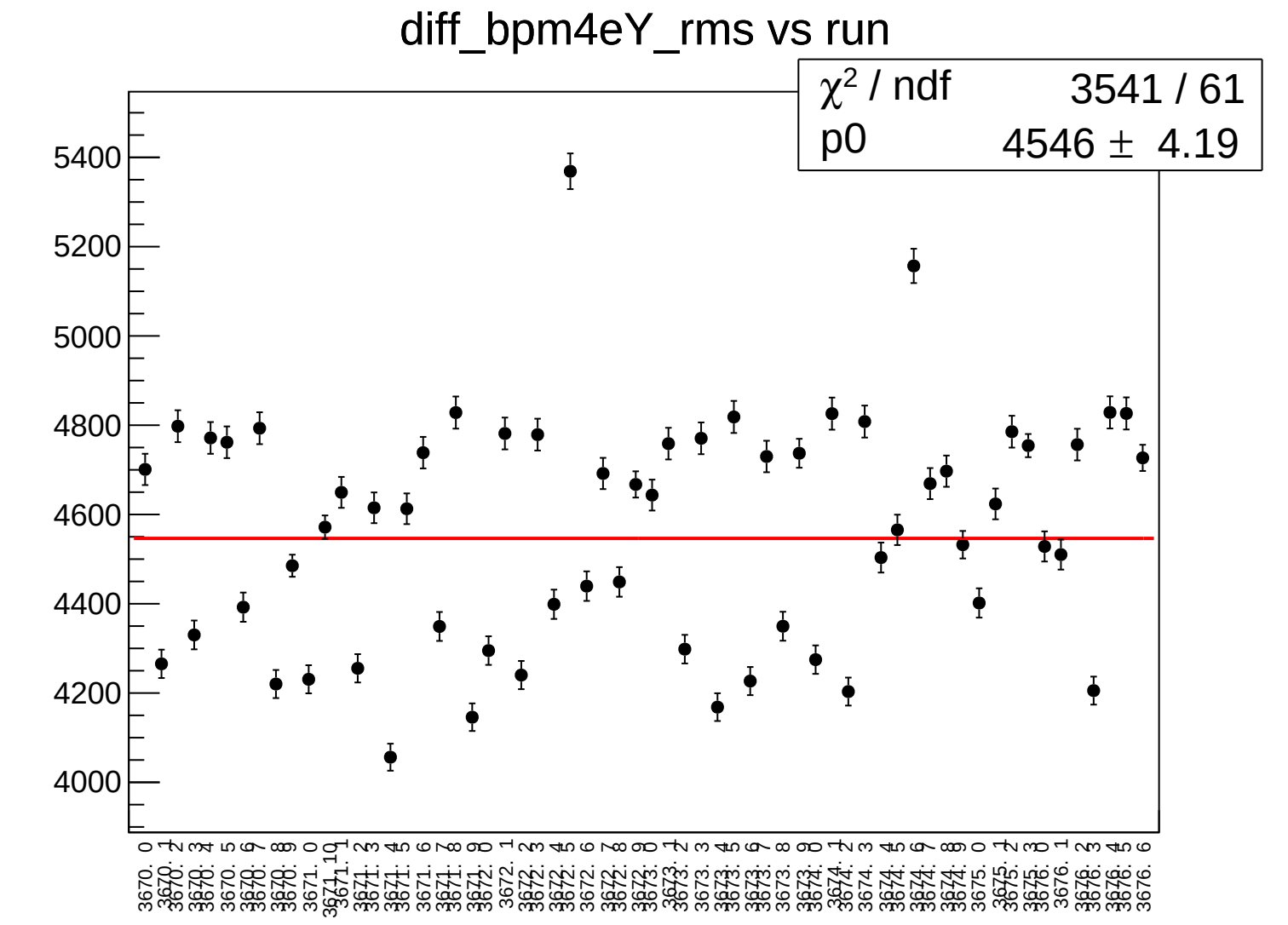

diff_bpm4eX_mean vs run
χ² / ndf 50.25 / 61
p0 −6.633 ± 14.62
pull
Entries 62
Mean −94.76
Std Dev 120.6

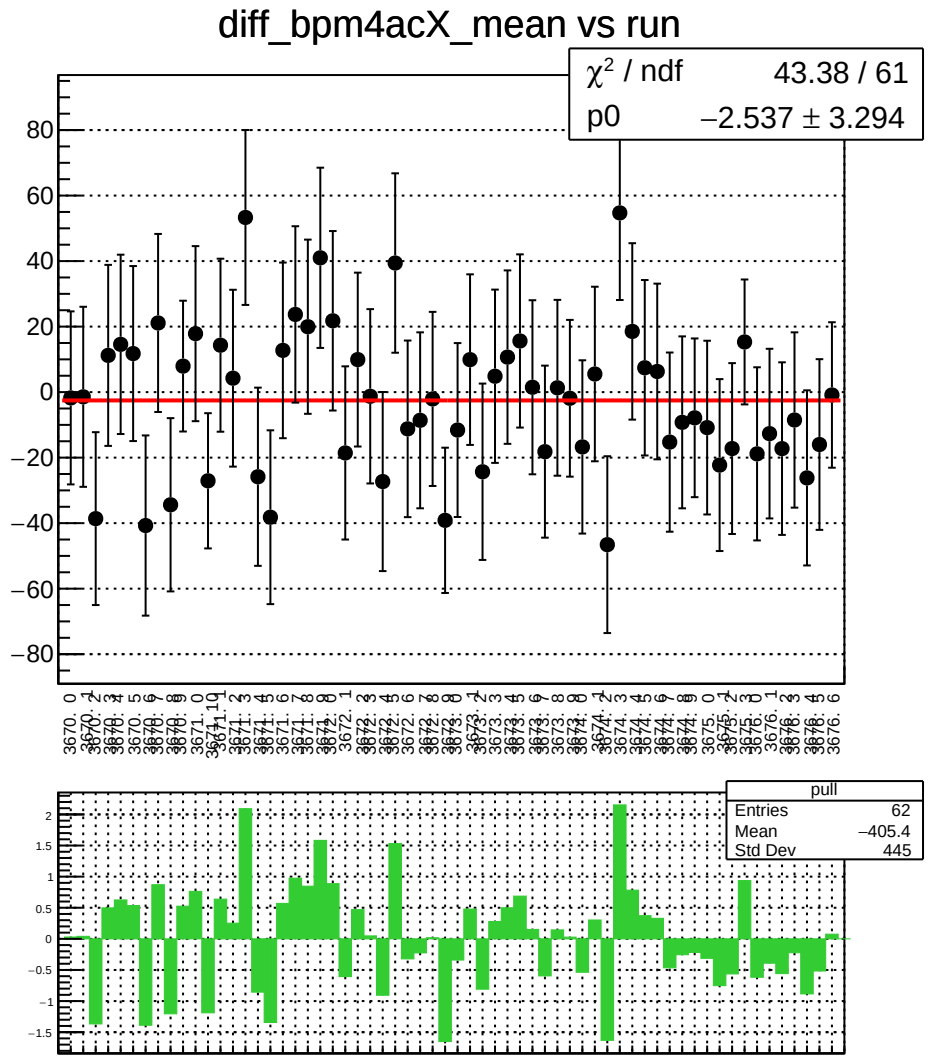

pull1D
Entries 62
Mean 0.0219
Std Dev 0.9

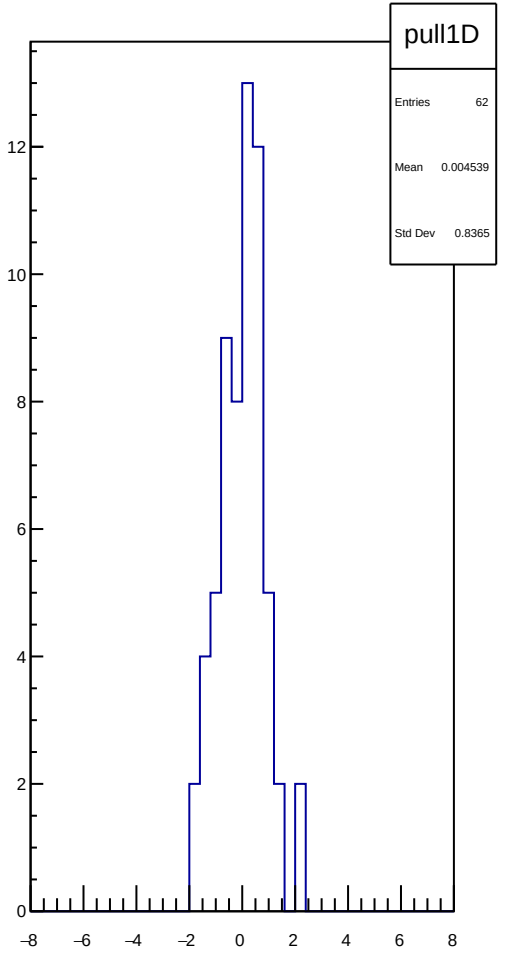

diff_bpm4eX_rms vs run
χ² / ndf 1468 / 61
p0 1.123e+04 ± 10.34
12400
12200
12000
11800
11600
11400
11200
11000
10800
10600
10400
10200

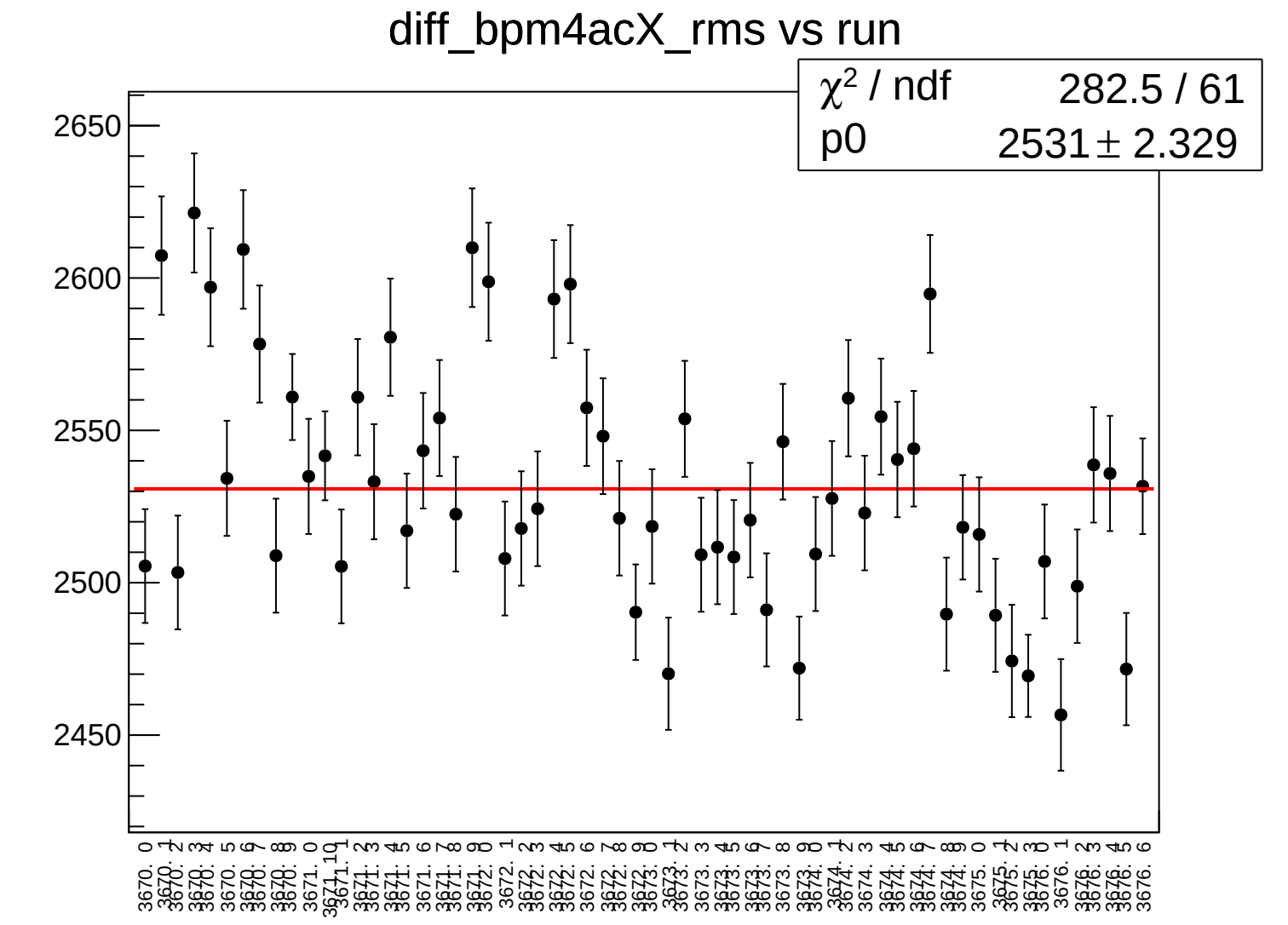

diff_bpm4eY_mean vs run
χ² / ndf 66.64 / 61
p0 −5.039 ± 5.925
pull
Entries 62
Mean 45.51
Std Dev 71.6

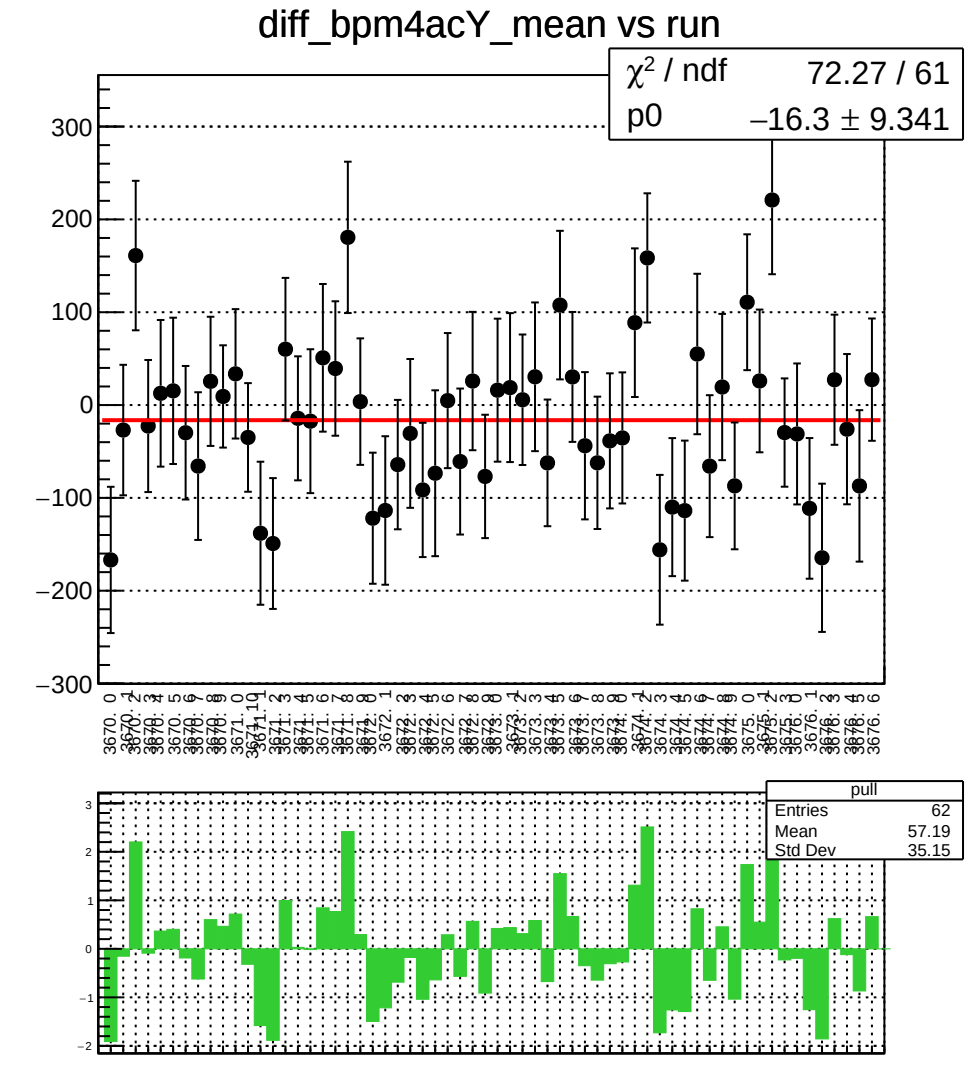

pull1D
Entries 62
Mean 0.00474
Std Dev 1.037

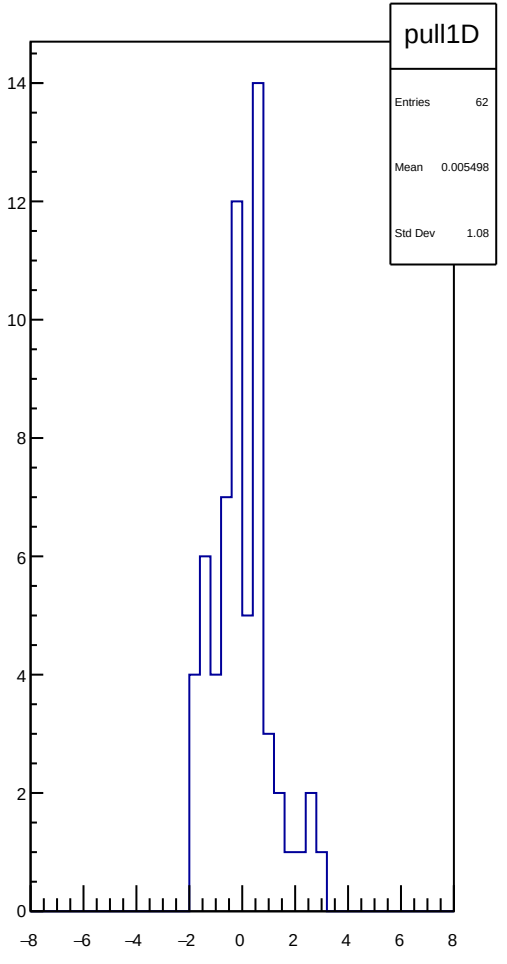

diff_bpm4eY_rms vs run
χ² / ndf 3541 / 61
p0 4546 ± 4.19
5400
5200
5000
4800
4600
4400
4200
4000

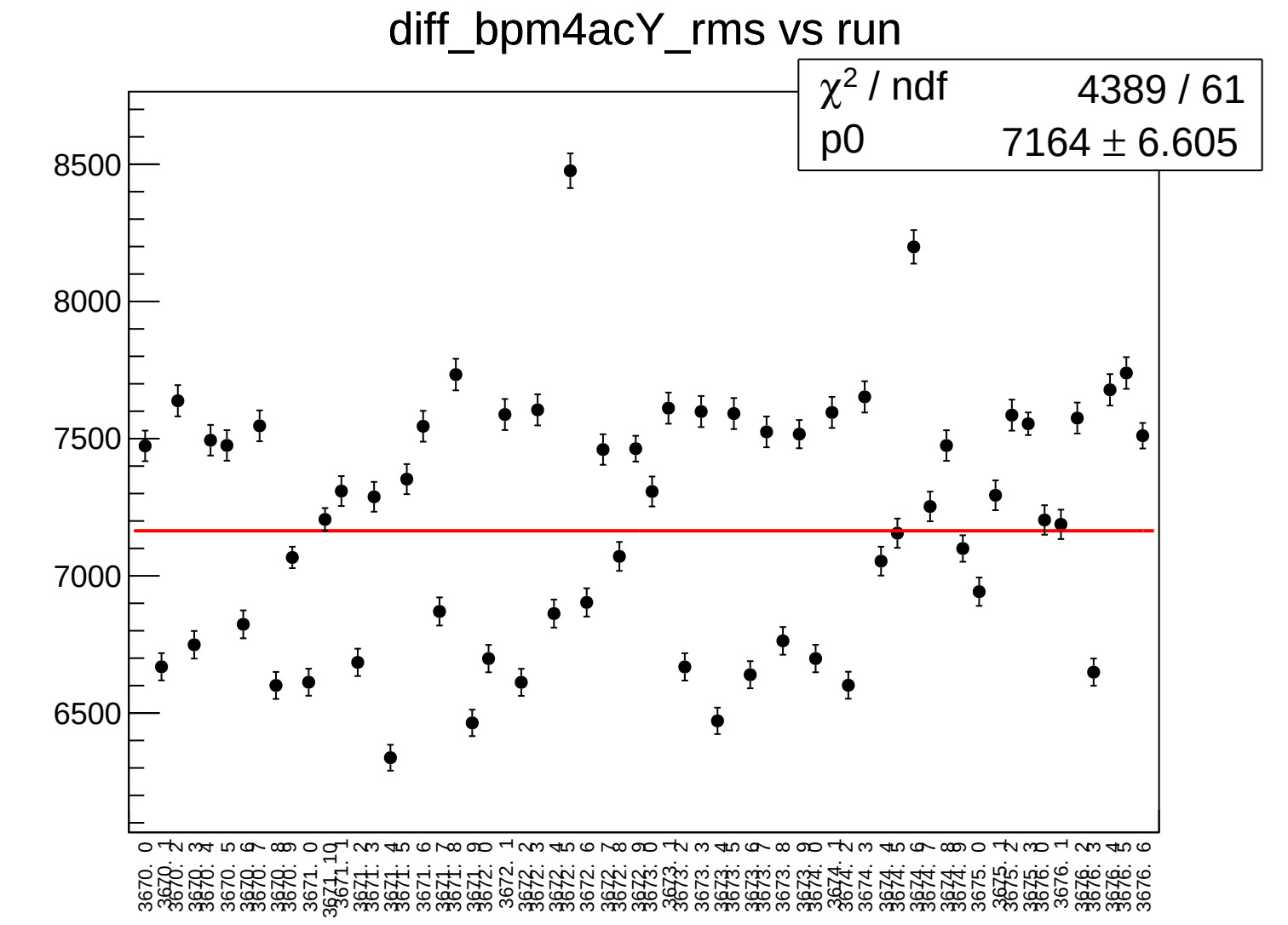

diff_bpm4acX_mean vs run
χ² / ndf 43.38 / 61
p0 −2.537 ± 3.294
pull
Entries 62
Mean −405.4
Std Dev 445

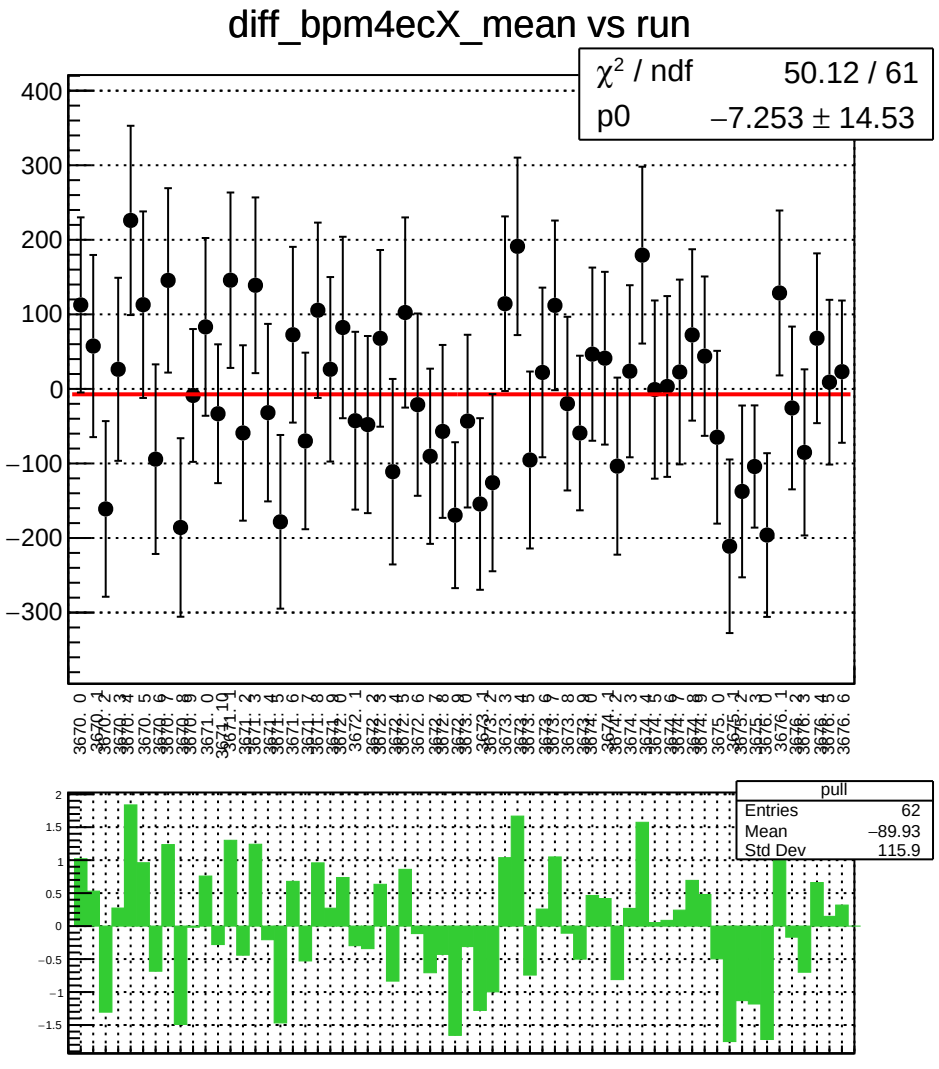

pull1D
Entries 62
Mean 0.004539
Std Dev 0.8365

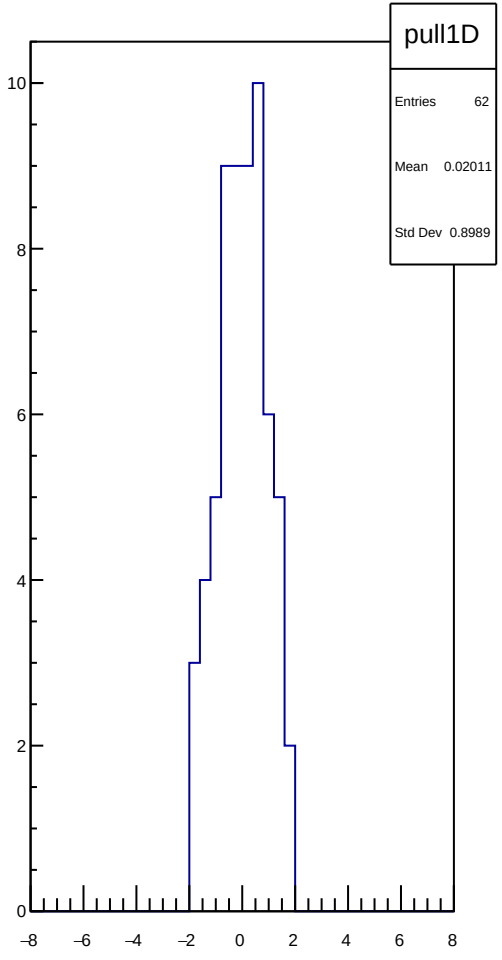

diff_bpm4acX_rms vs run
χ² / ndf 282.5 / 61
p0 2531 ± 2.329
2650
2600
2550
2500
2450
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 10
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

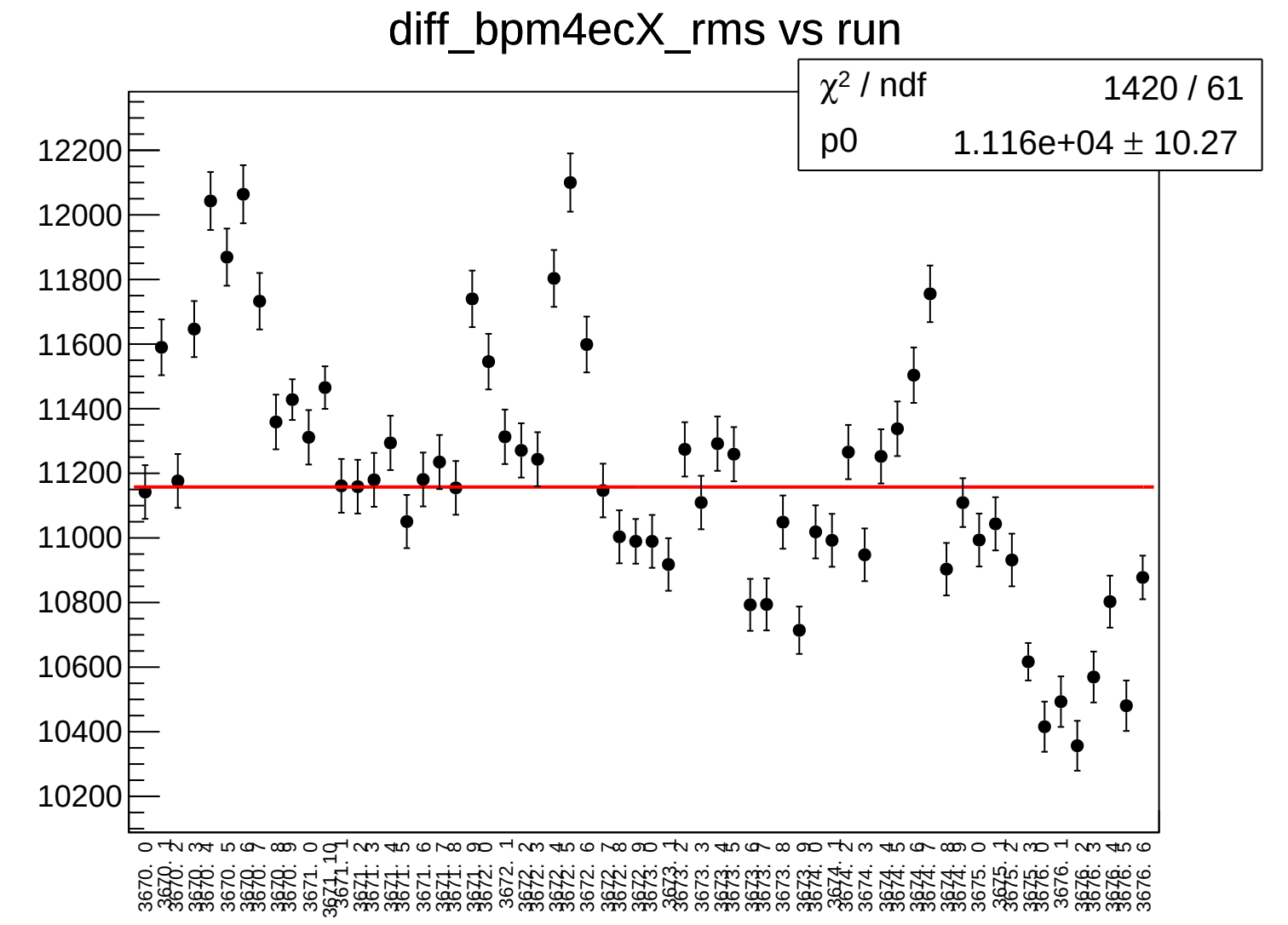

diff_bpm4acY_mean vs run
χ² / ndf 72.27 / 61
p0 −16.3 ± 9.341
pull
Entries 62
Mean 57.19
Std Dev 35.15

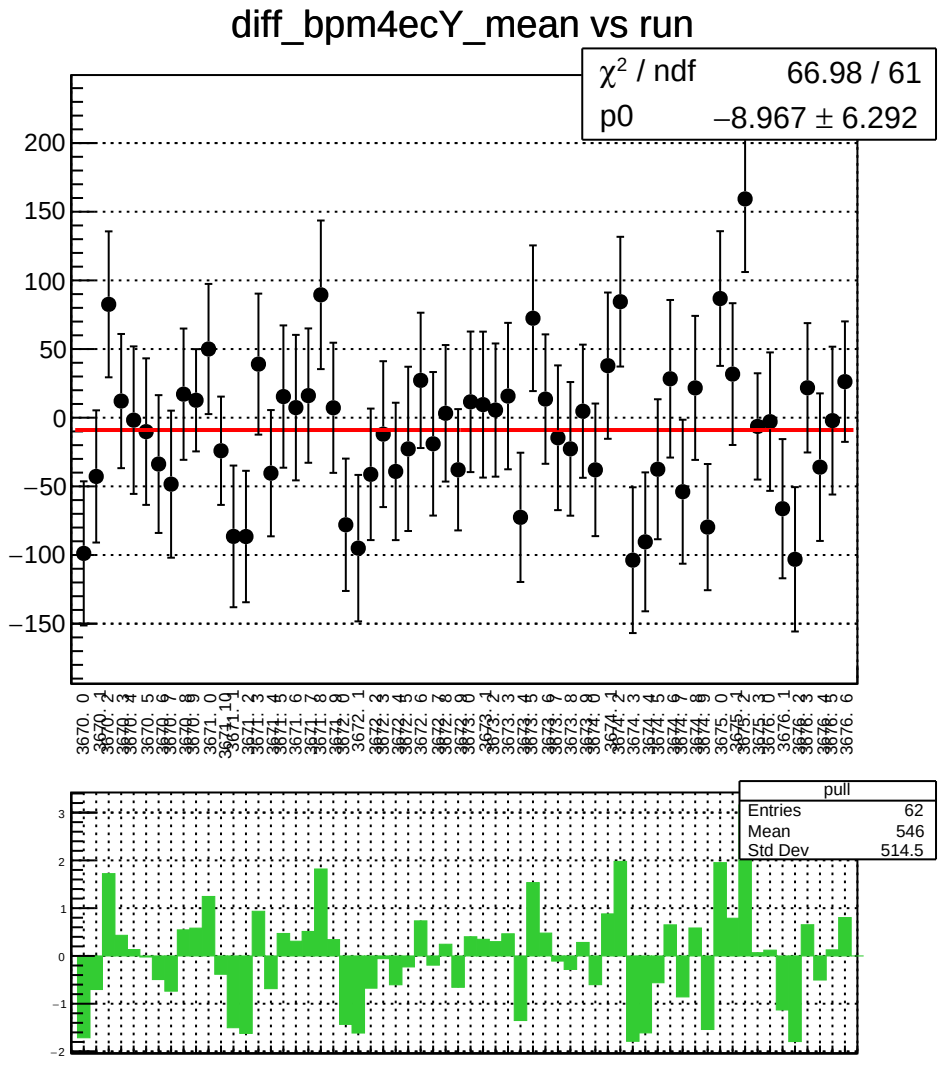

pull1D
Entries 62
Mean 0.005498
Std Dev 1.08

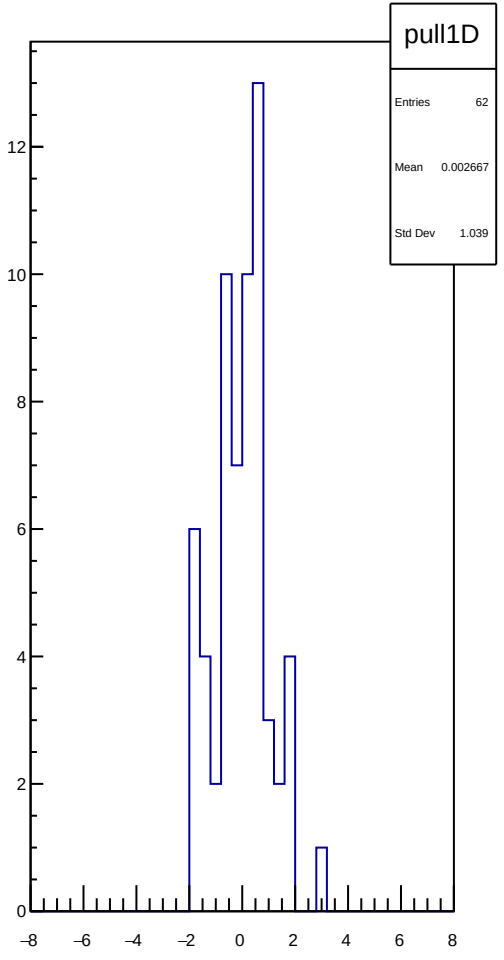

diff_bpm4acY_rms vs run
χ² / ndf 4389 / 61
p0 7164 ± 6.605
8500
8000
7500
7000
6500

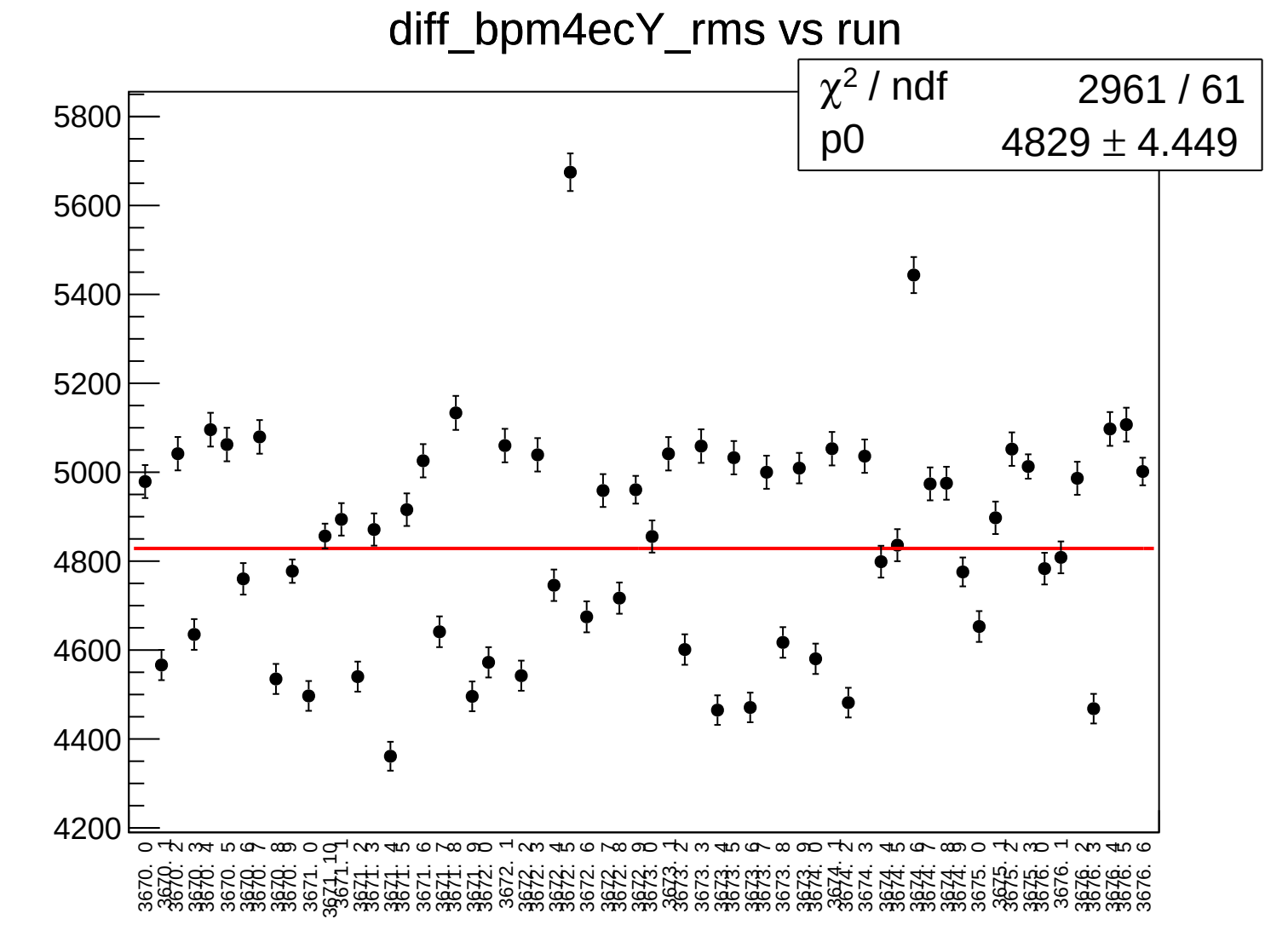

diff_bpm4ecX_mean vs run
χ² / ndf 50.12 / 61
p0 −7.253 ± 14.53
pull
Entries 62
Mean −89.93
Std Dev 115.9

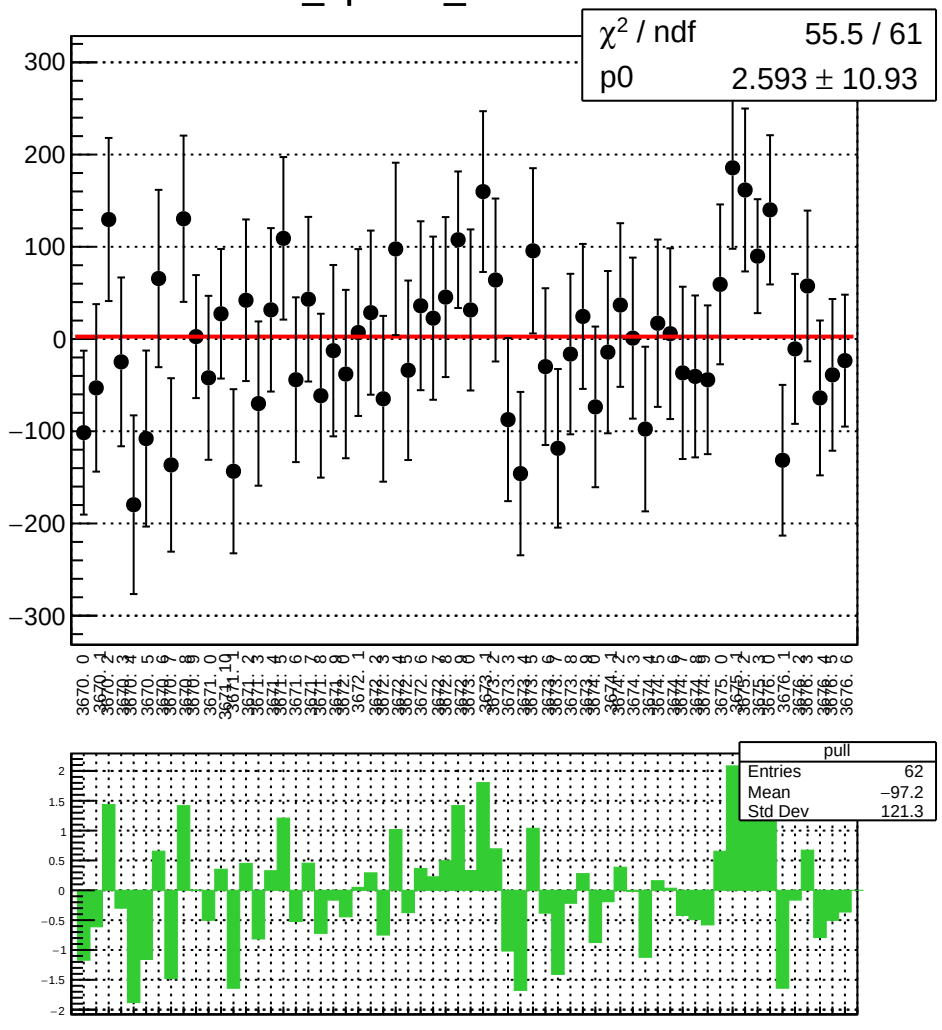

pull1D
Entries 62
Mean 0.02011
Std Dev 0.8989

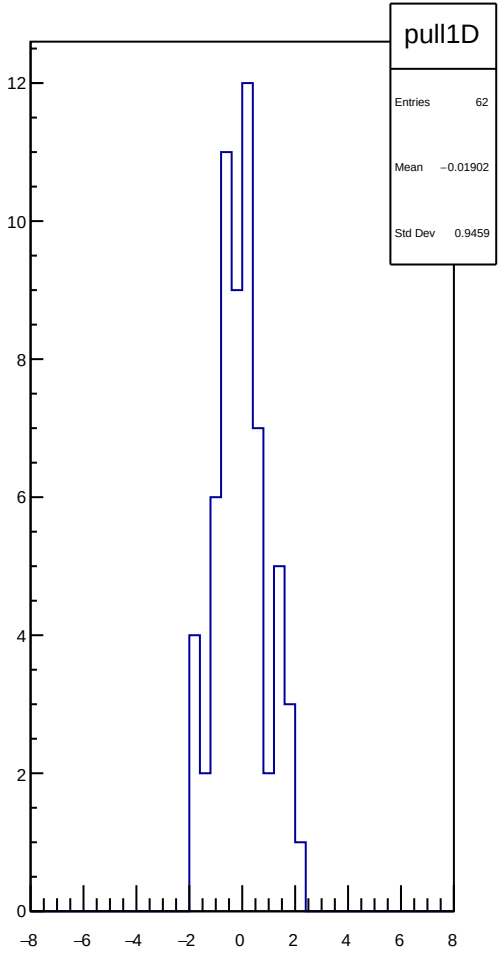

diff_bpm4ecX_rms vs run
χ² / ndf 1420 / 61
p0 1.116e+04 ± 10.27
12200
12000
11800
11600
11400
11200
11000
10800
10600
10400
10200

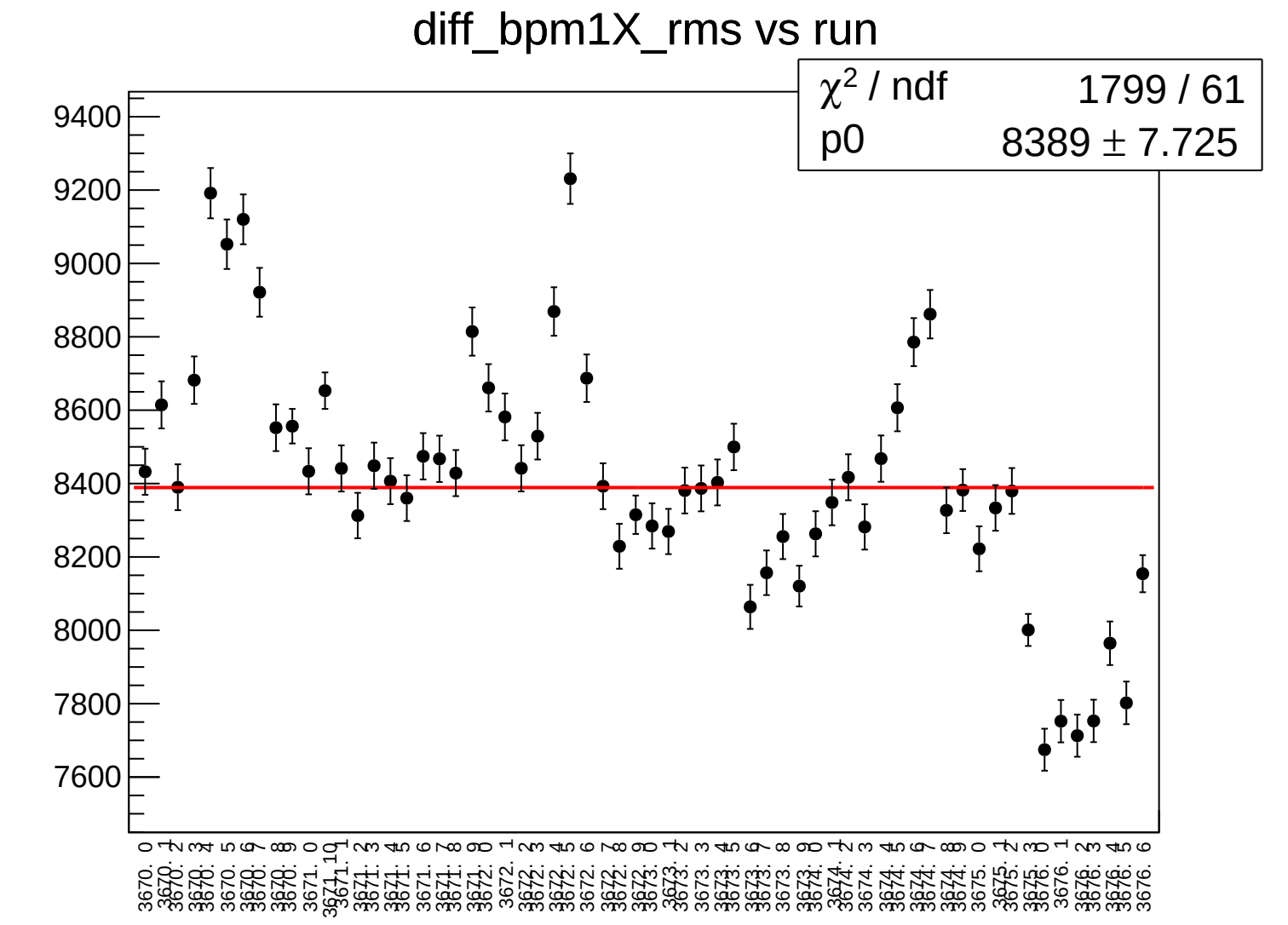

diff_bpm4ecY_mean vs run
χ² / ndf 66.98 / 61
p0 −8.967 ± 6.292
pull
Entries 62
Mean 546
Std Dev 514.5

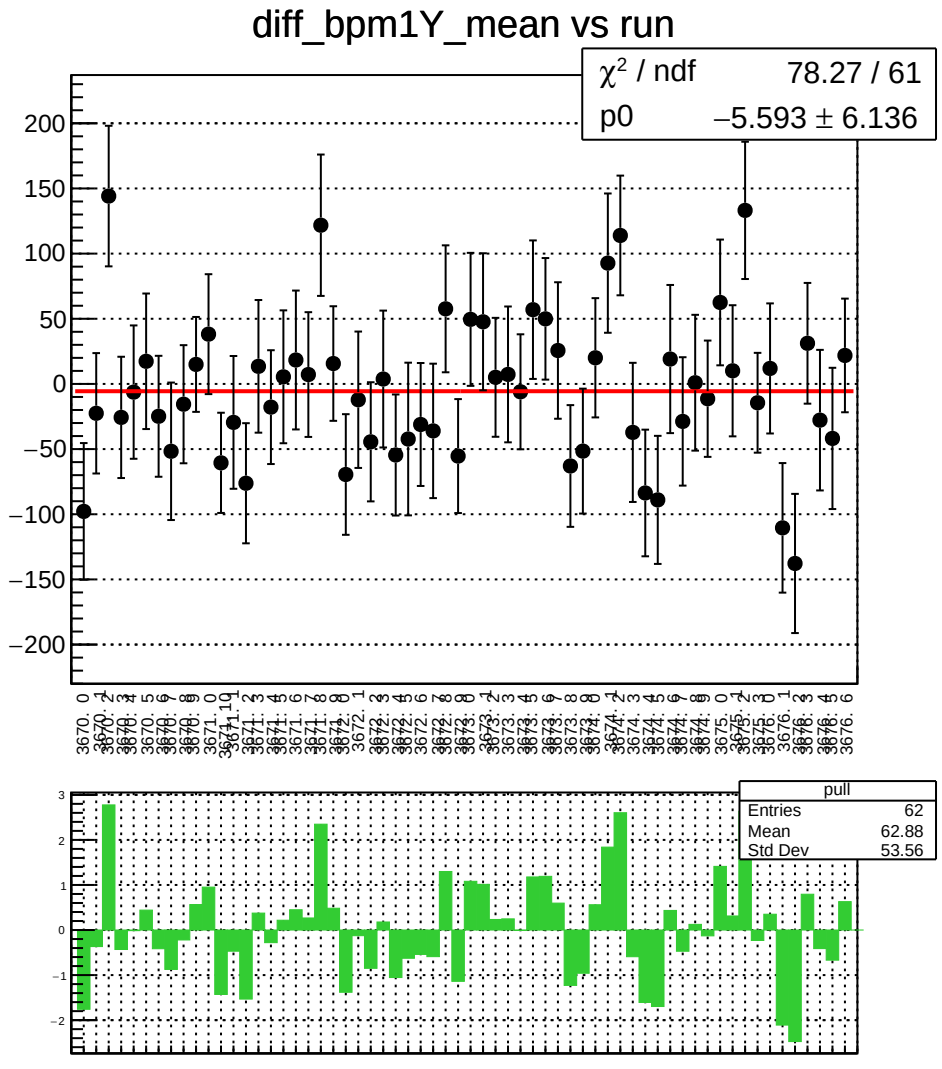

pull1D
Entries 62
Mean 0.002667
Std Dev 1.039

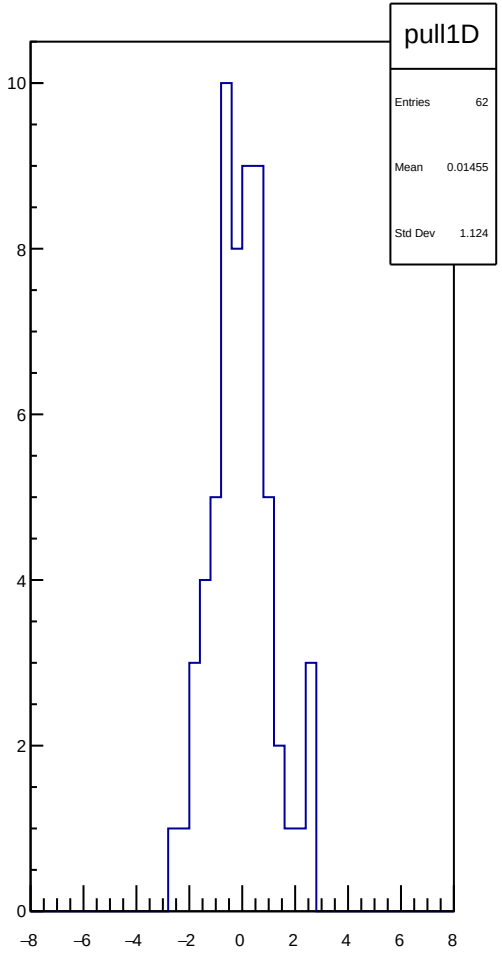

diff_bpm4ecY_rms vs run
χ² / ndf 2961 / 61
p0 4829 ± 4.449
5800
5600
5400
5200
5000
4800
4600
4400
4200

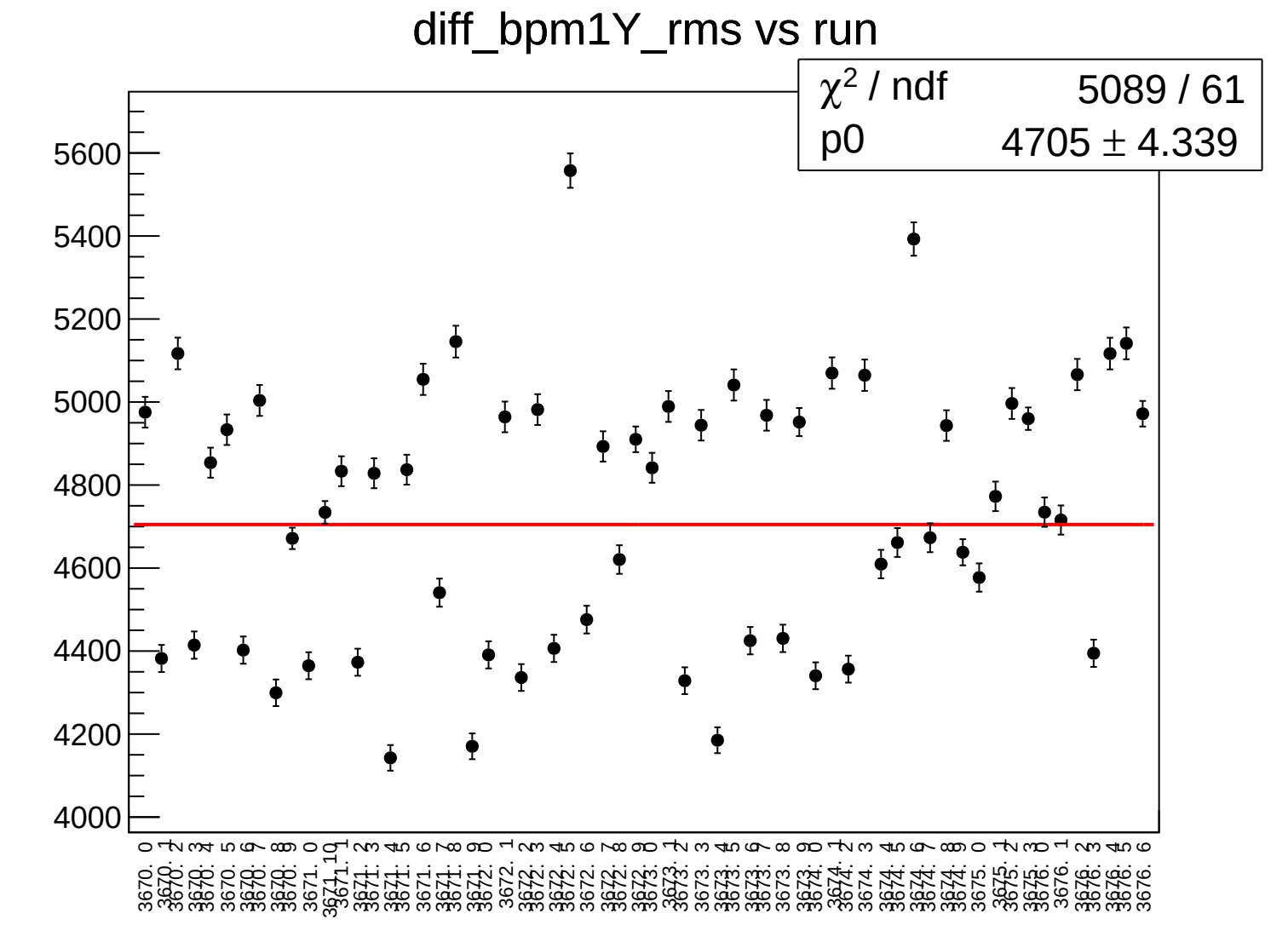

diff_bpm1X_mean vs run
χ² / ndf 55.5 / 61
p0 2.593 ± 10.93
pull
Entries 62
Mean −97.2
Std Dev 121.3

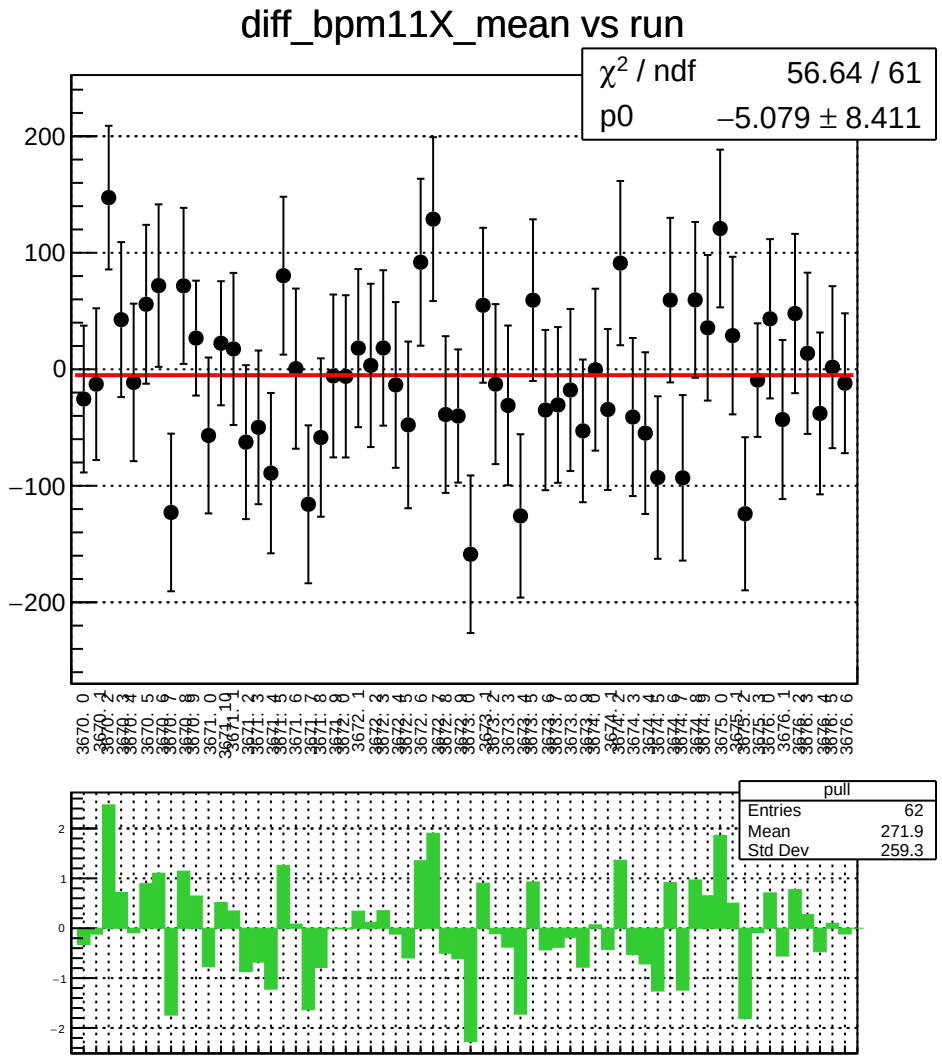

pull1D
Entries 62
Mean −0.01902
Std Dev 0.9459

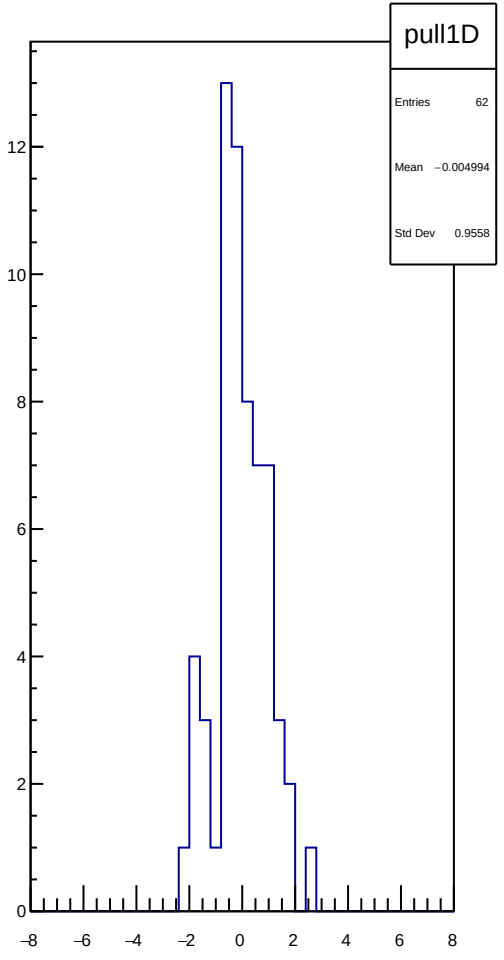

diff_bpm1X_rms vs run
χ^2 / ndf 1799 / 61
p0 8389 ± 7.725
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

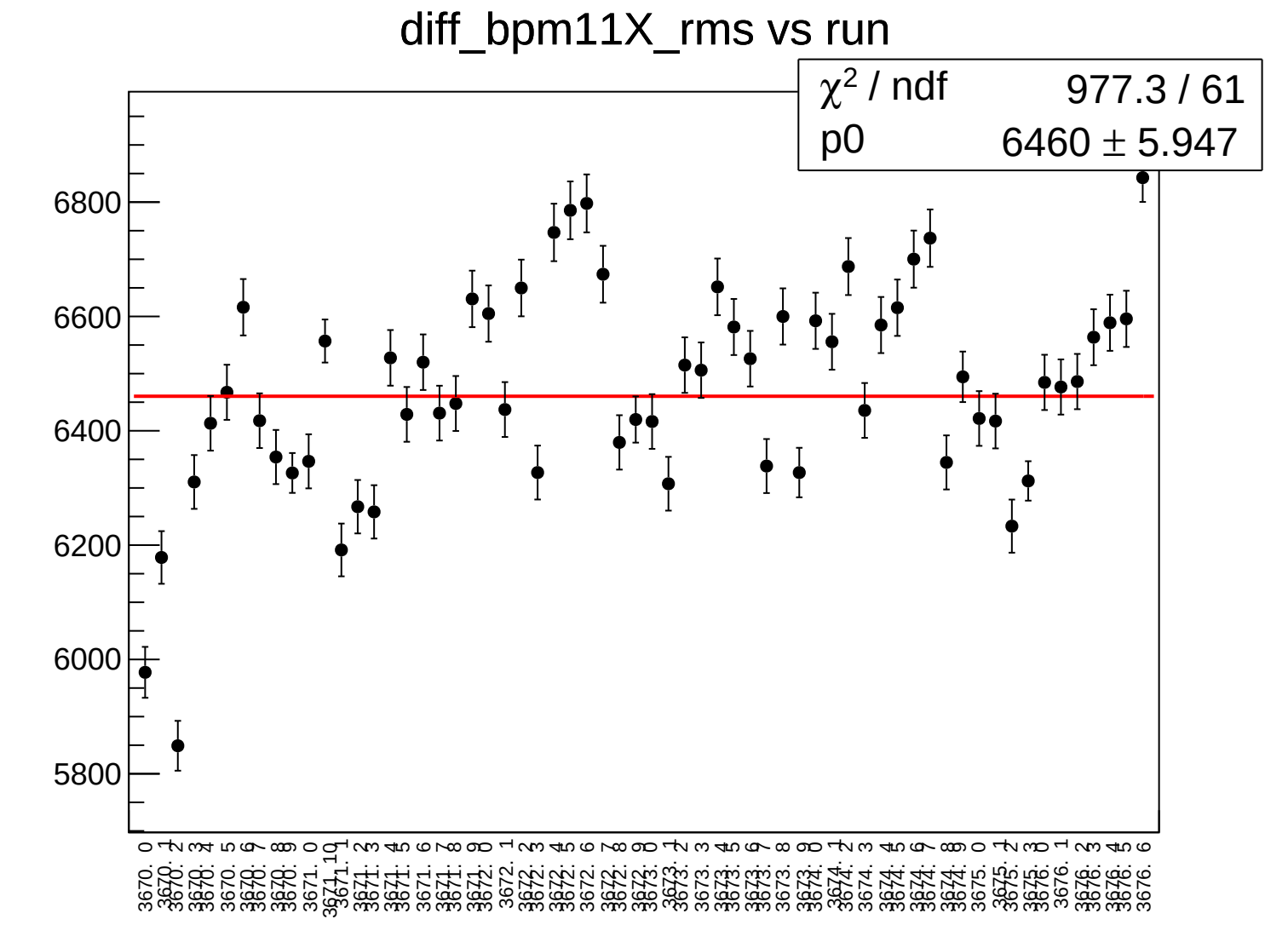

diff_bpm1Y_mean vs run
χ² / ndf 78.27 / 61
p0 −5.593 ± 6.136
pull
Entries 62
Mean 62.88
Std Dev 53.56


pull1D
Entries 62
Mean 0.01455
Std Dev 1.124


diff_bpm1Y_rms vs run
χ^2 / ndf 5089 / 61
p0 4705 ± 4.339
5600
5400
5200
5000
4800
4600
4400
4200
4000


diff_bpm11X_mean vs run
χ^2 / ndf 56.64 / 61
p0 −5.079 ± 8.411
200
100
0
−100
−200
pull
Entries 62
Mean 271.9
Std Dev 259.3
2
1
0
−1
−2


pull1D
Entries 62
Mean −0.004994
Std Dev 0.9558
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm11X_rms vs run
χ² / ndf 977.3 / 61
p0 6460 ± 5.947
6800
6600
6400
6200
6000
5800
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
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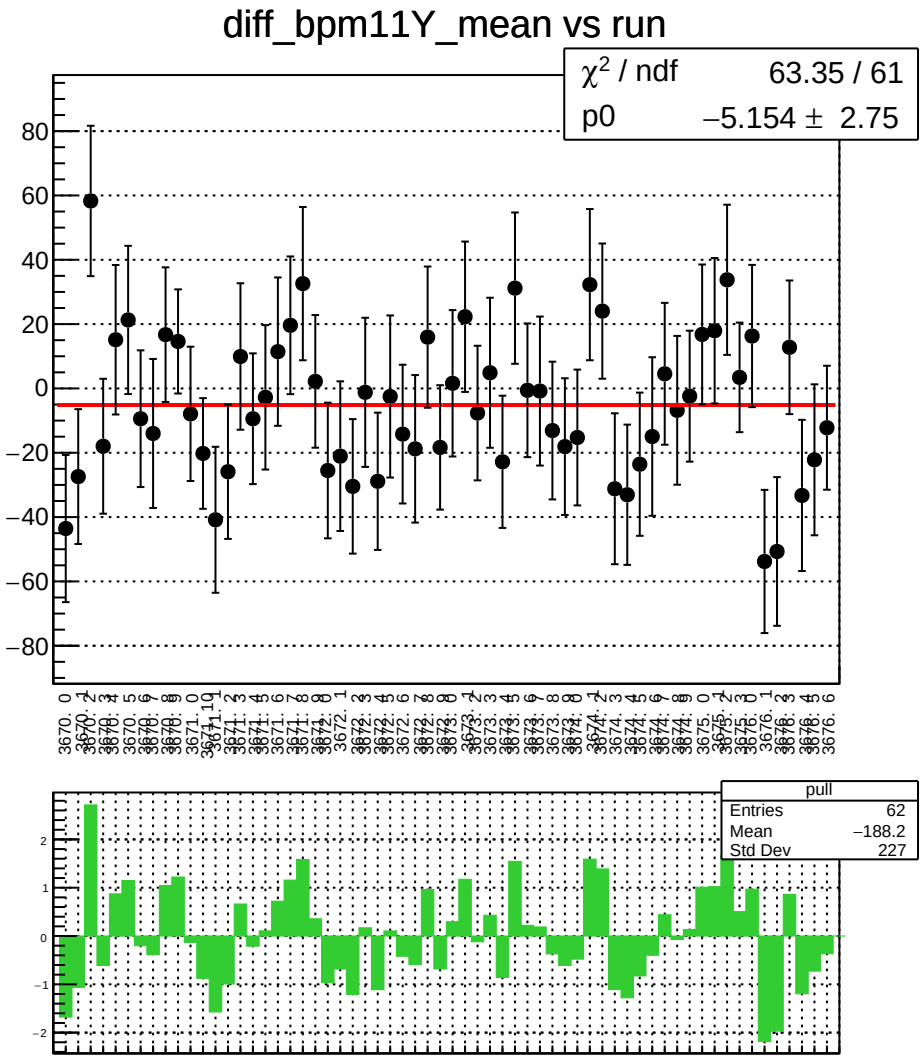
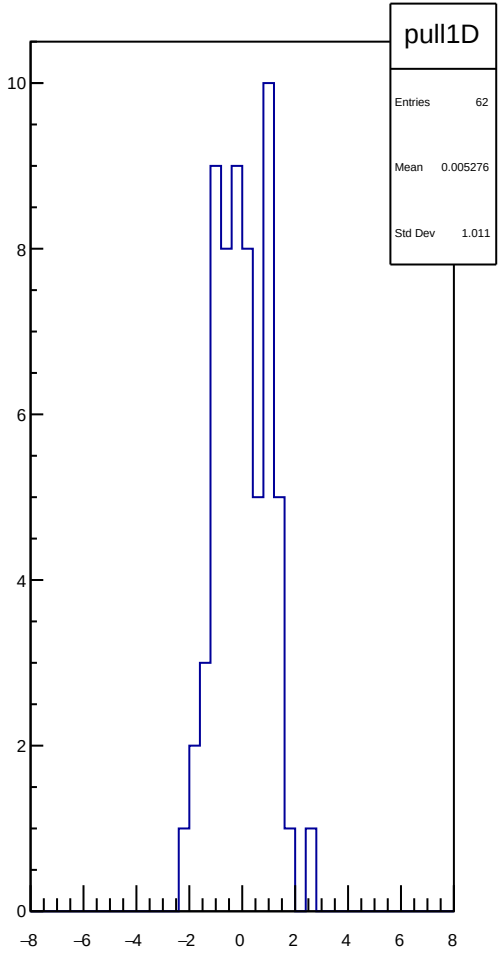
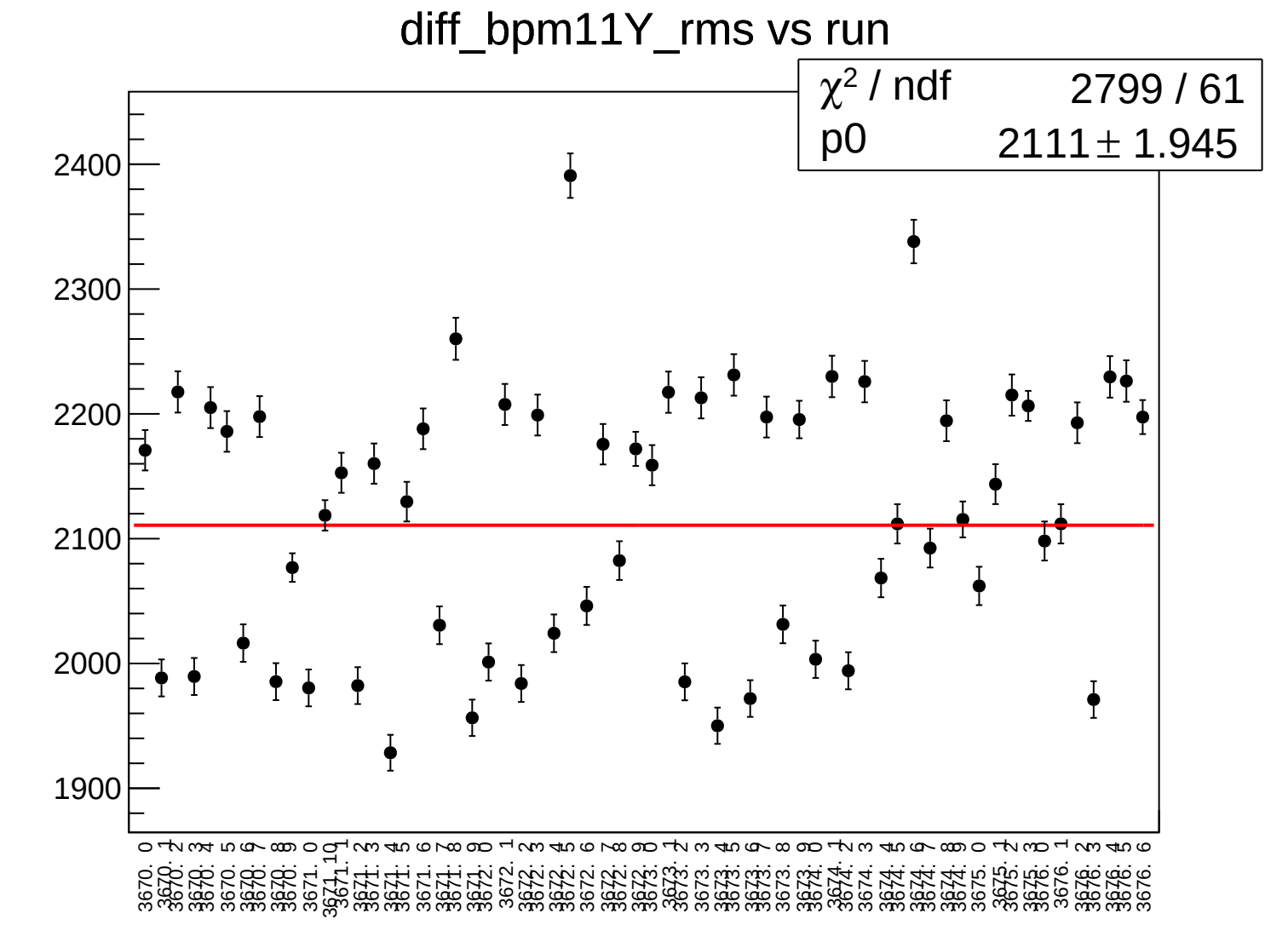
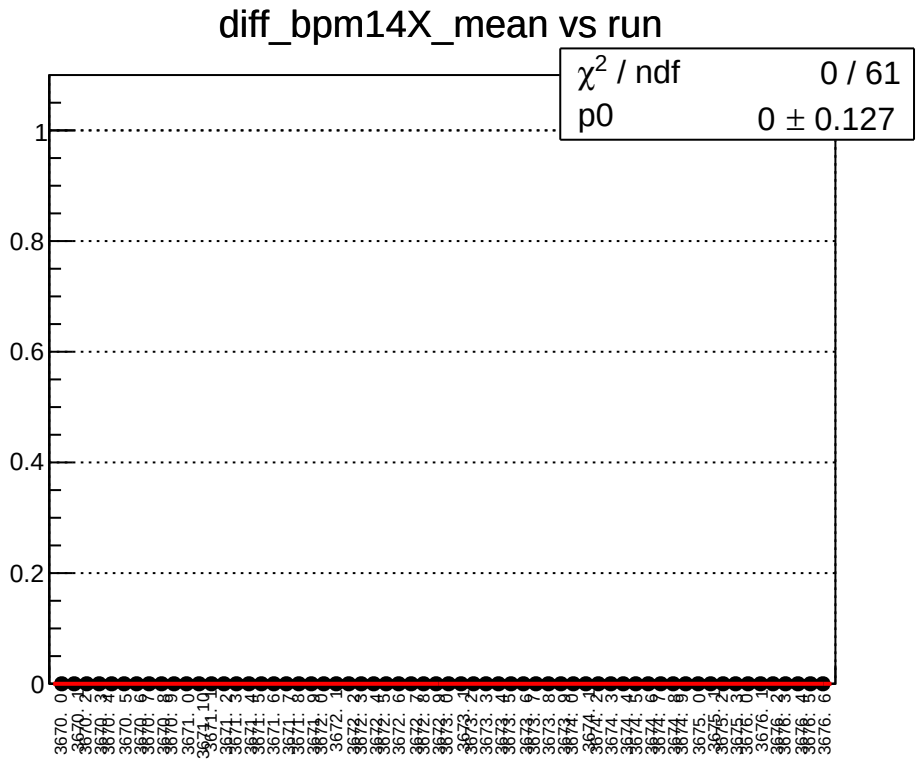
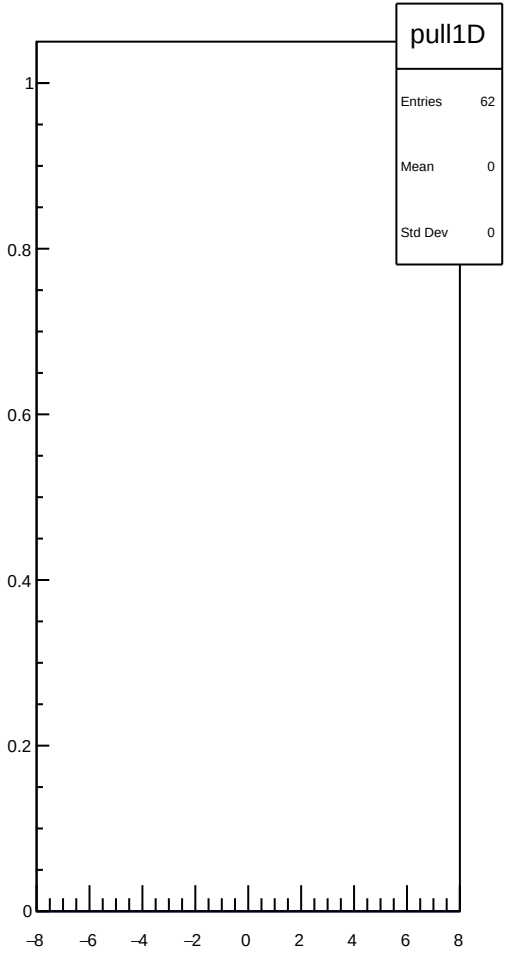
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

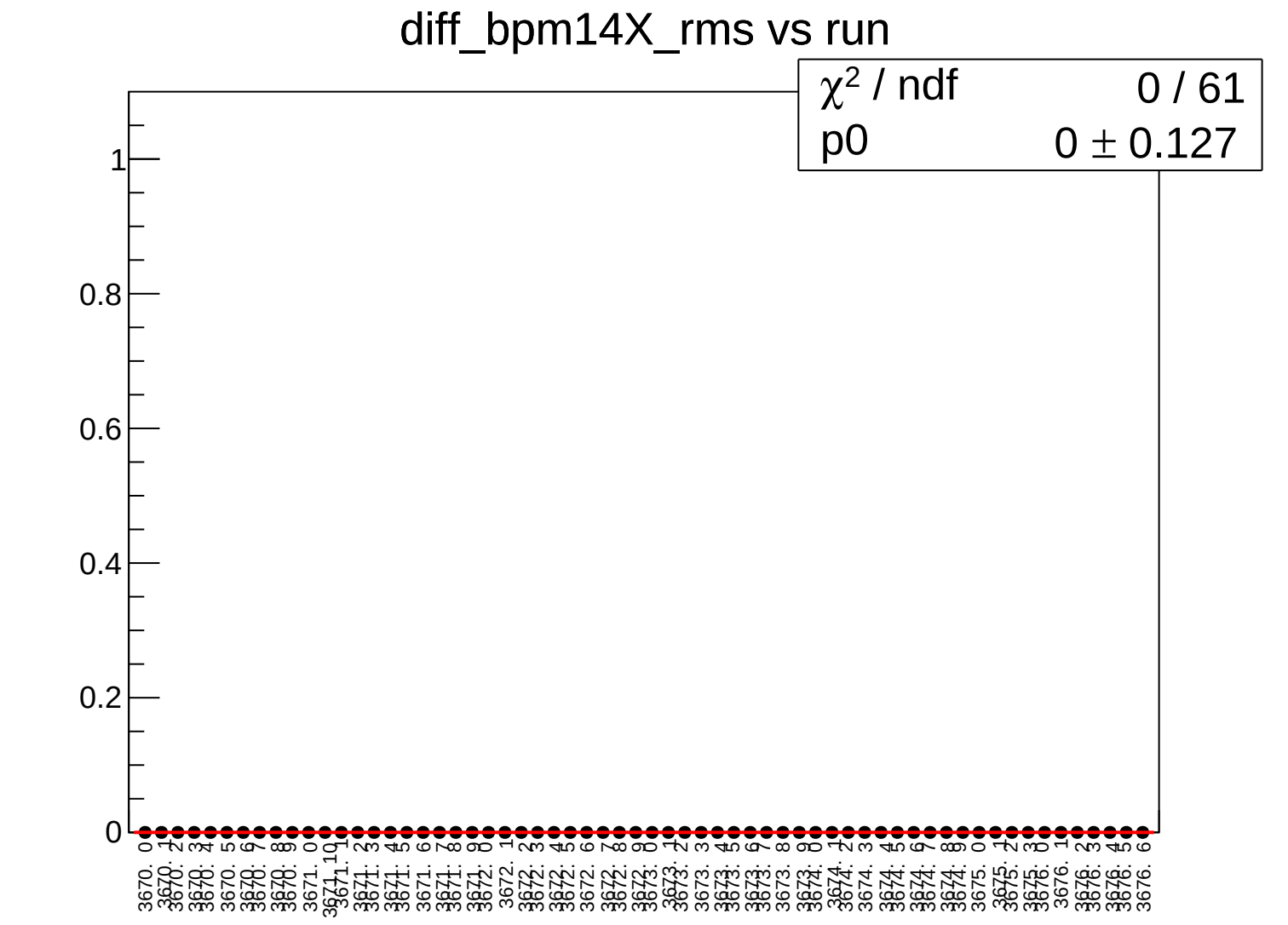

diff_bpm11Y_mean vs run
χ² / ndf 63.35 / 61
p0 −5.154 ± 2.75
pull
Entries 62
Mean −188.2
Std Dev 227

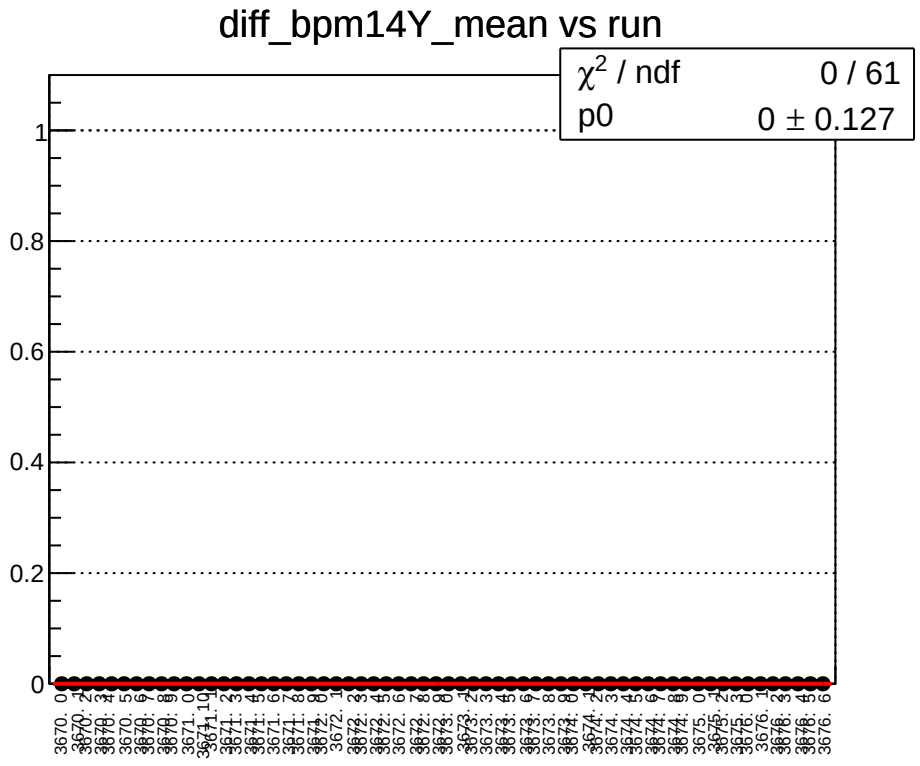

pull1D
Entries 62
Mean 0.005276
Std Dev 1.011

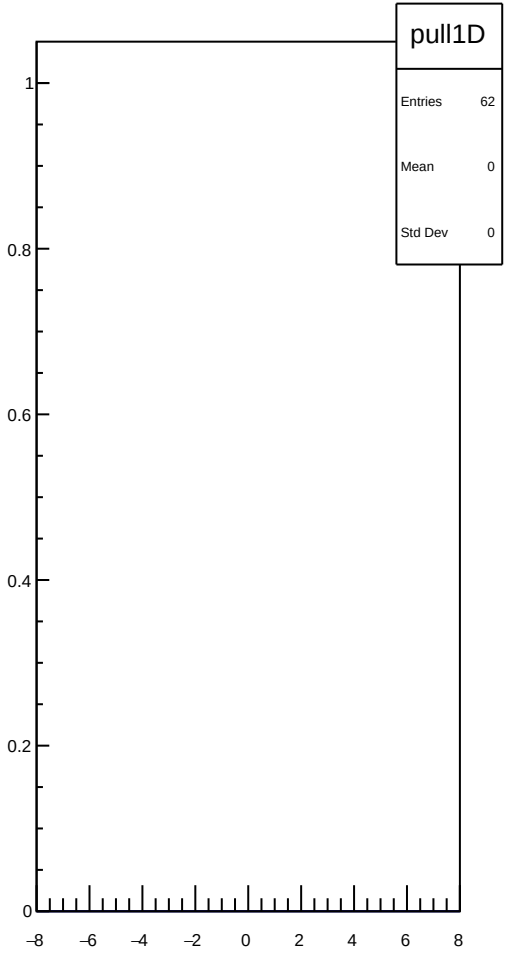

diff_bpm11Y_rms vs run
χ² / ndf 2799 / 61
p0 2111 ± 1.945
2400
2300
2200
2100
2000
1900

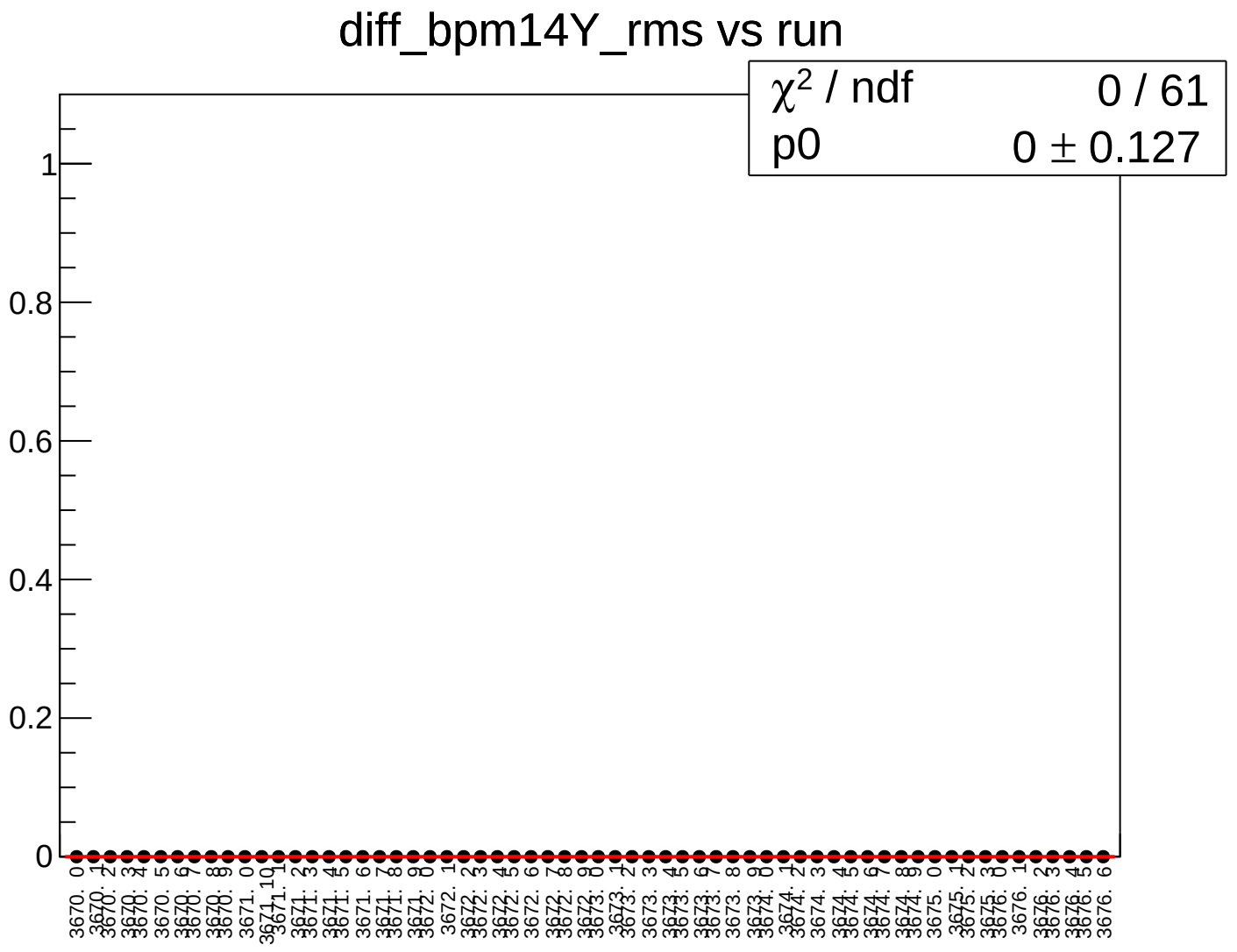

diff_bpm14X_mean vs run
χ^2 / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

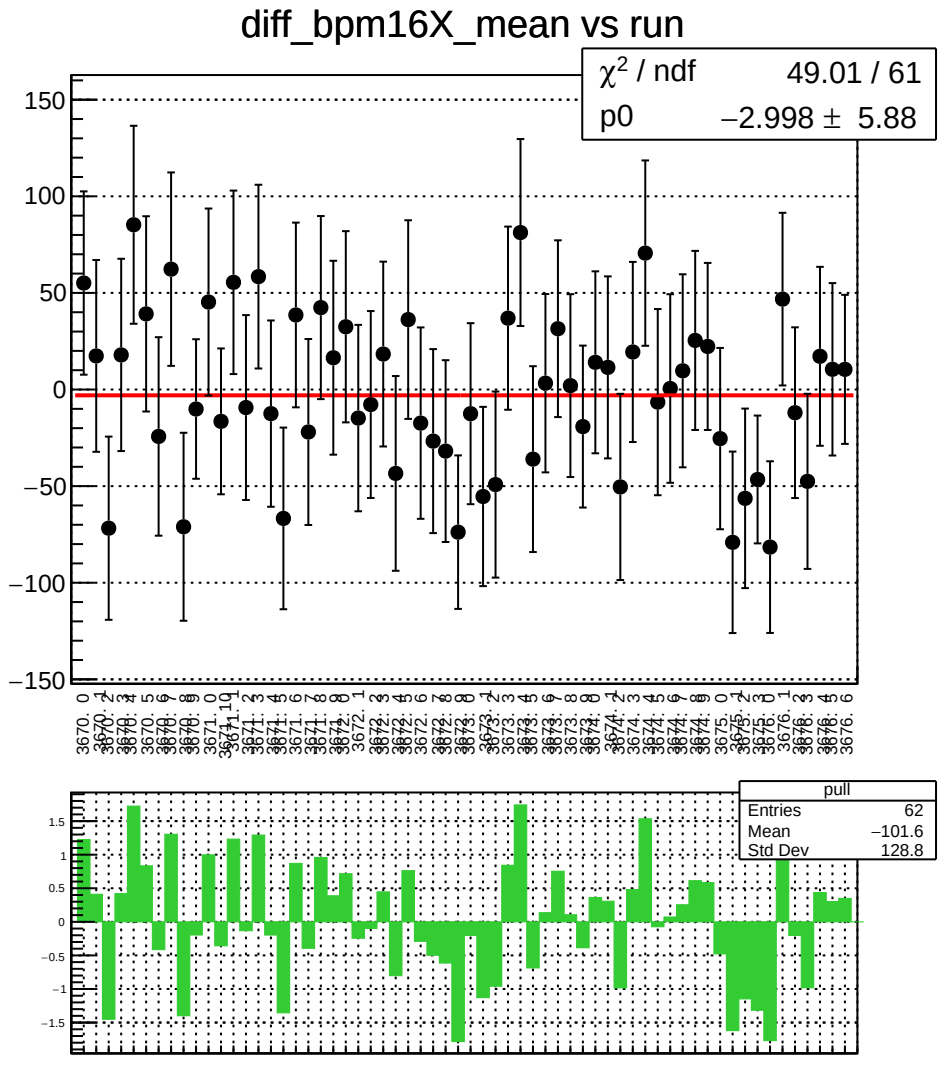

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

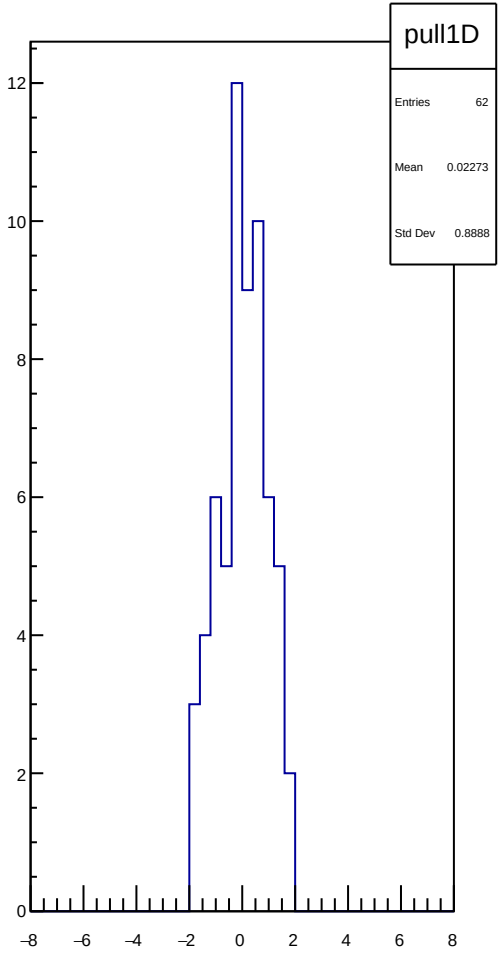

diff_bpm14X_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

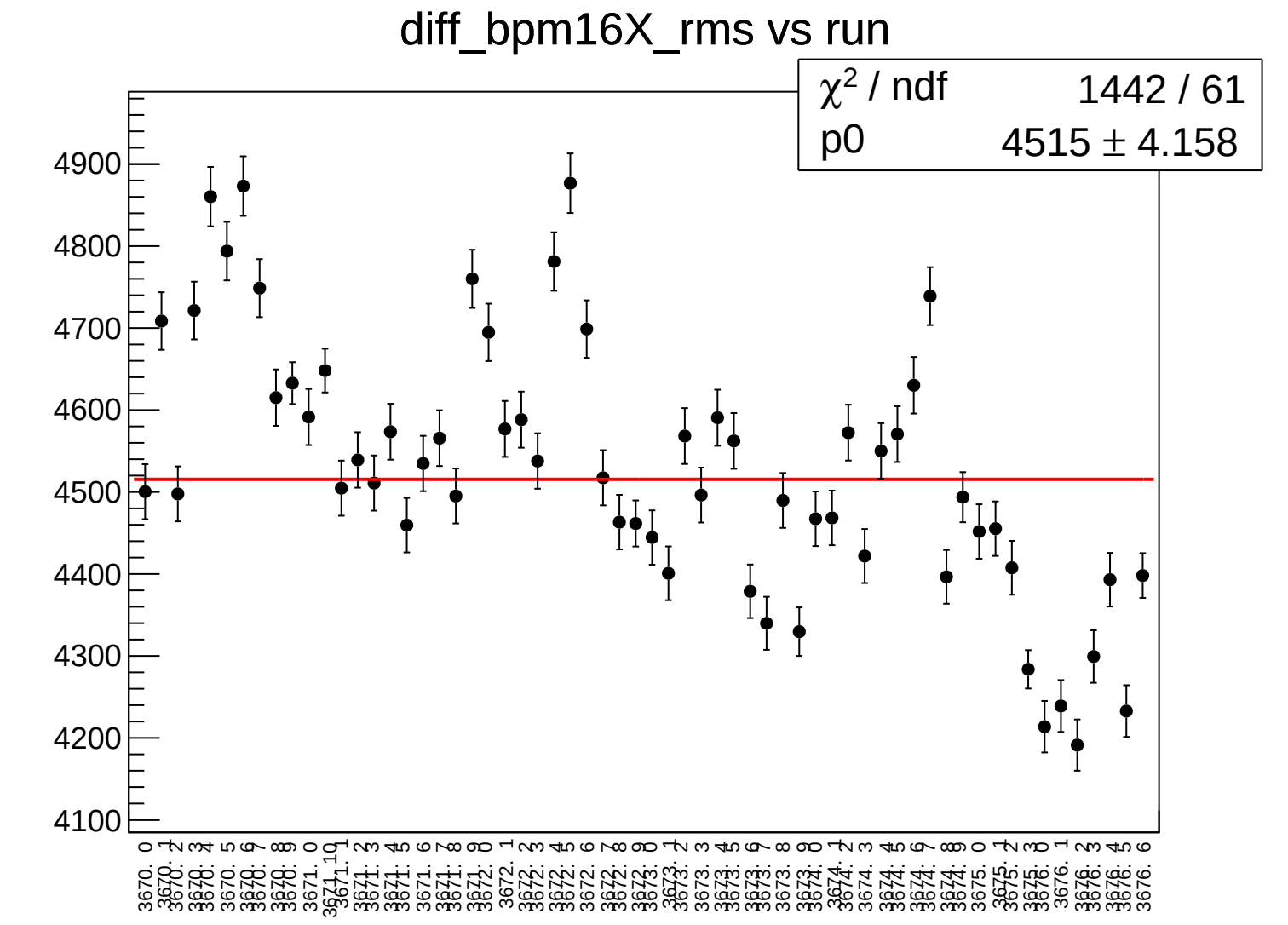

diff_bpm14Y_mean vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0

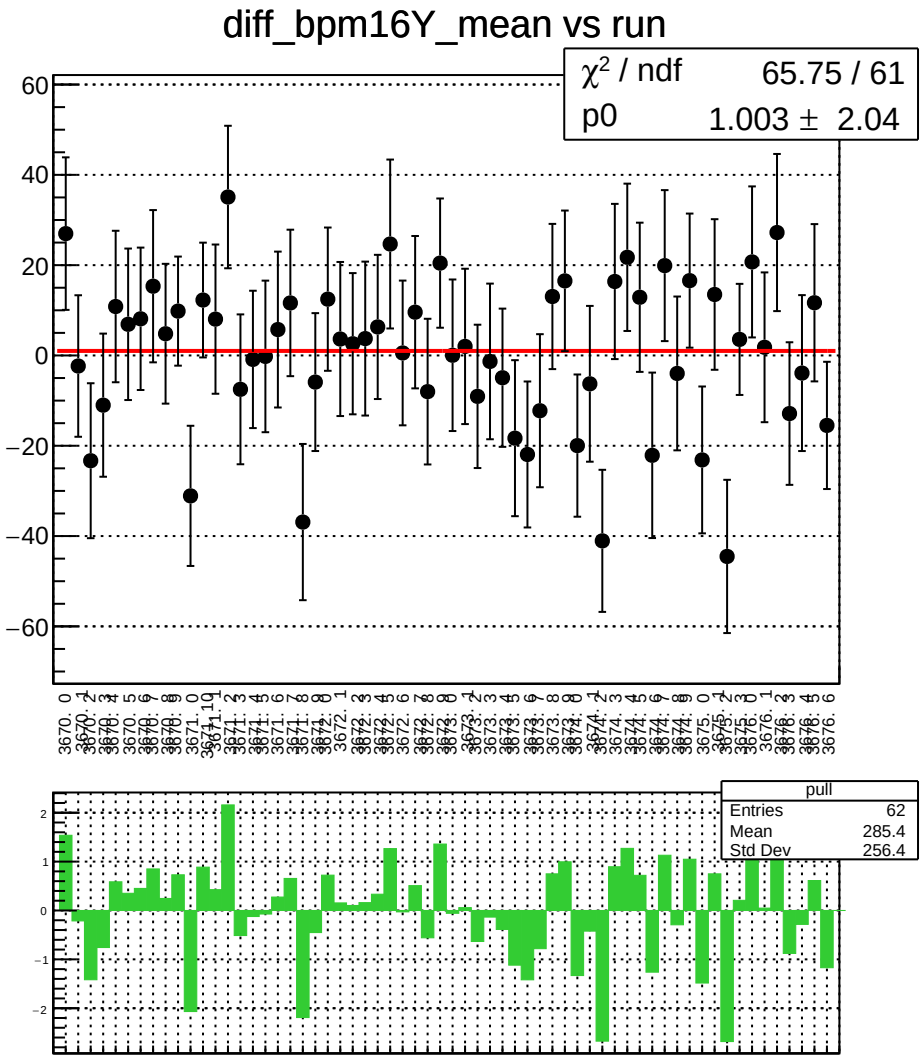

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

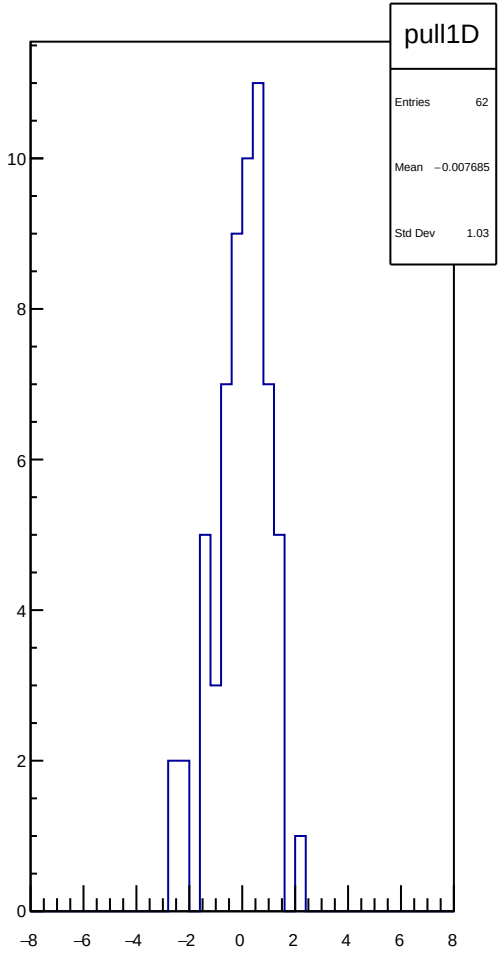

diff_bpm14Y_rms vs run
χ² / ndf 0 / 61
p0 0 ± 0.127
1
0.8
0.6
0.4
0.2
0
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

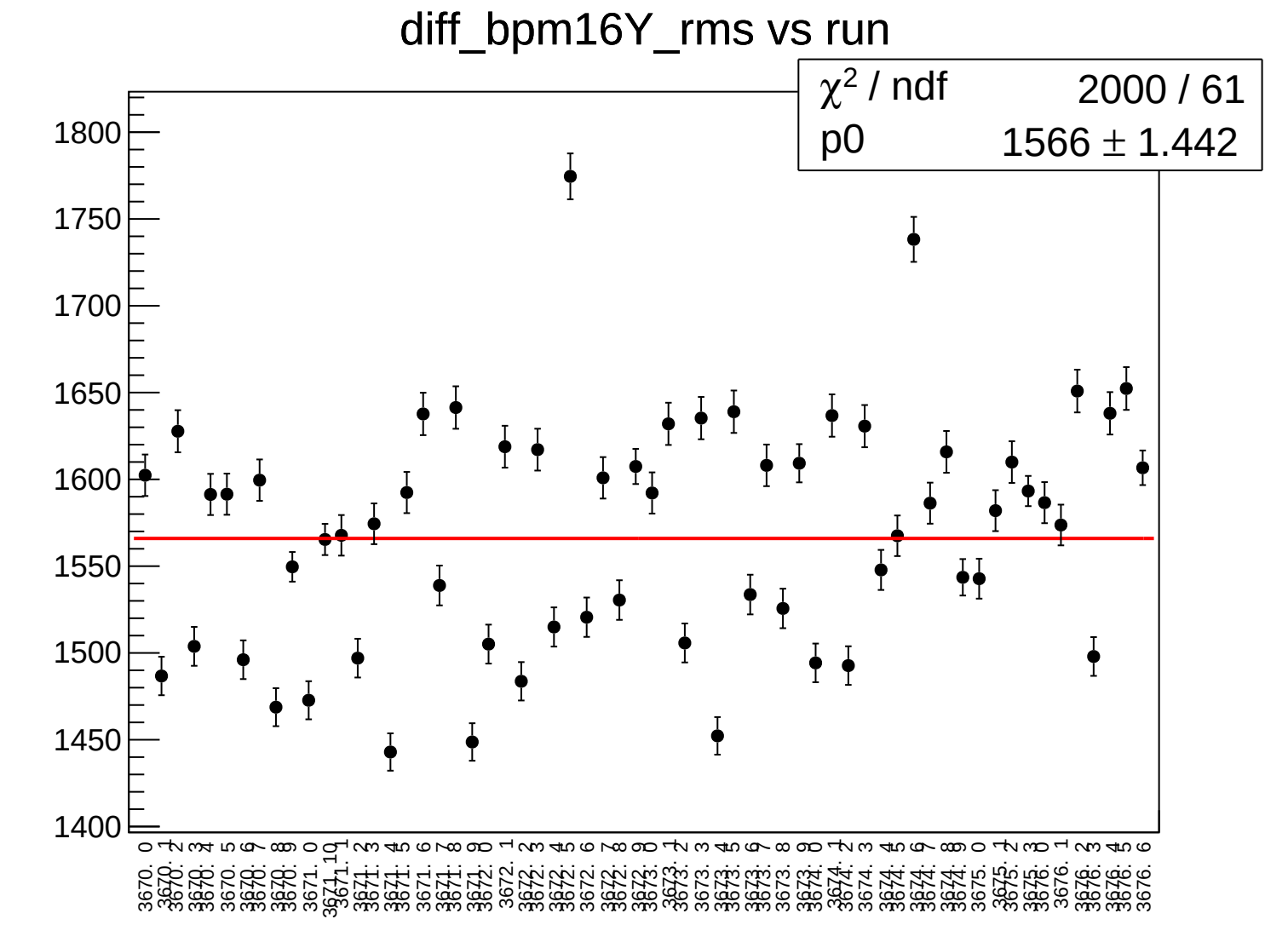

diff_bpm16X_mean vs run
χ² / ndf 49.01 / 61
p0 −2.998 ± 5.88
pull
Entries 62
Mean −101.6
Std Dev 128.8

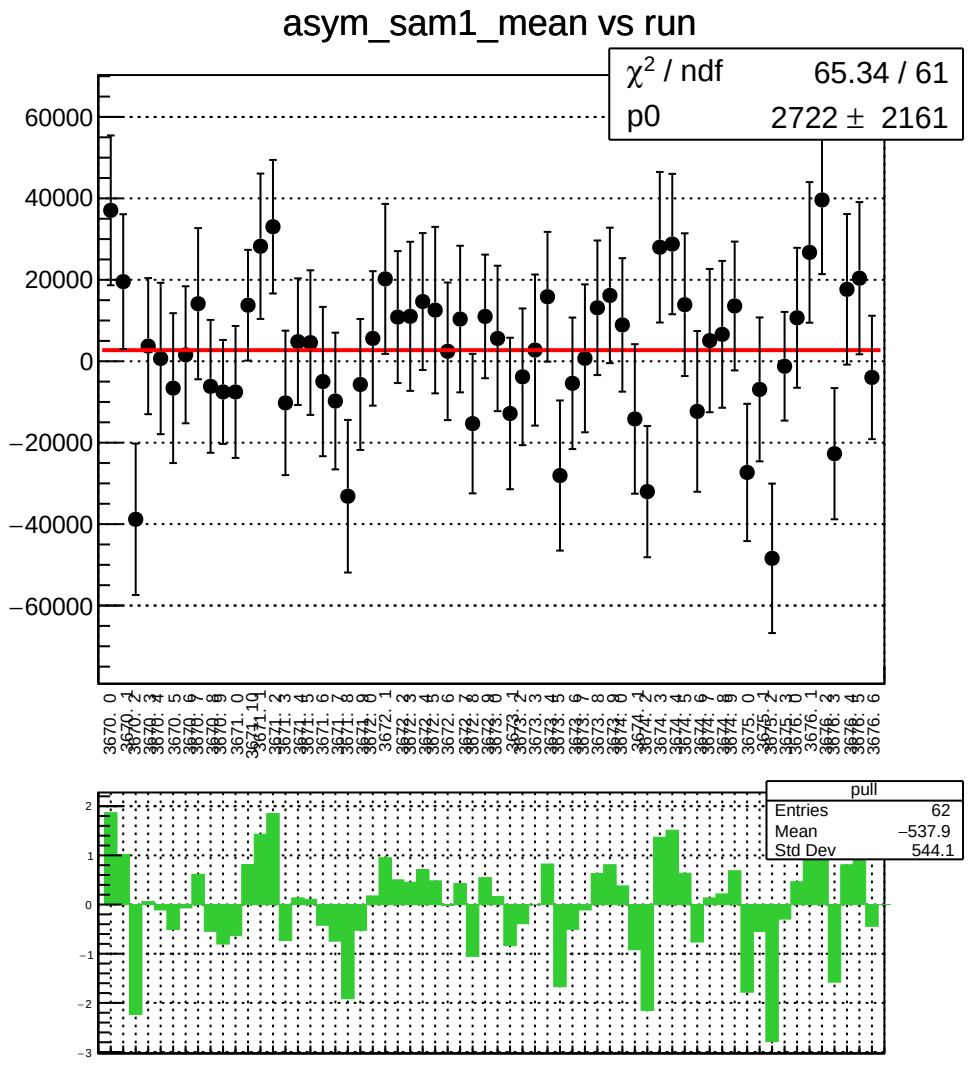

pull1D
Entries 62
Mean 0.02273
Std Dev 0.8888

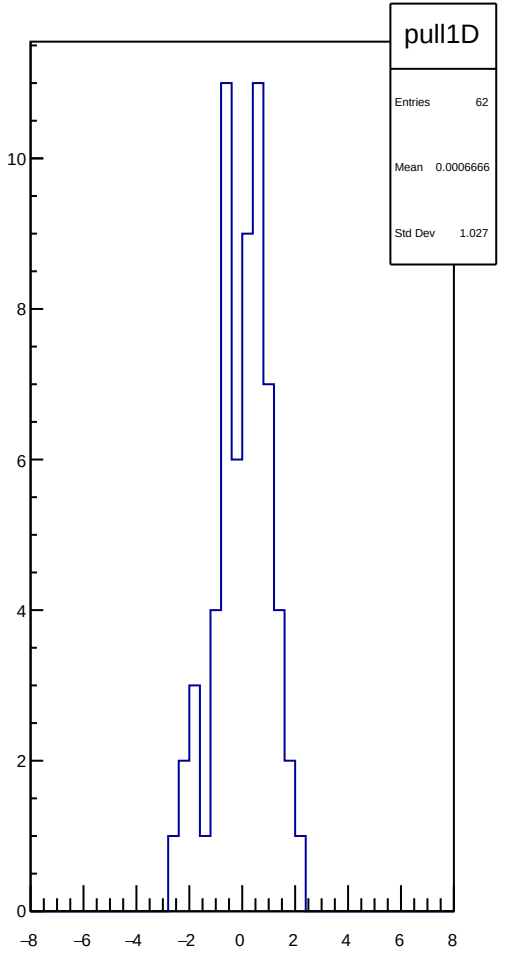

diff_bpm16X_rms vs run
χ² / ndf 1442 / 61
p0 4515 ± 4.158
4900
4800
4700
4600
4500
4400
4300
4200
4100

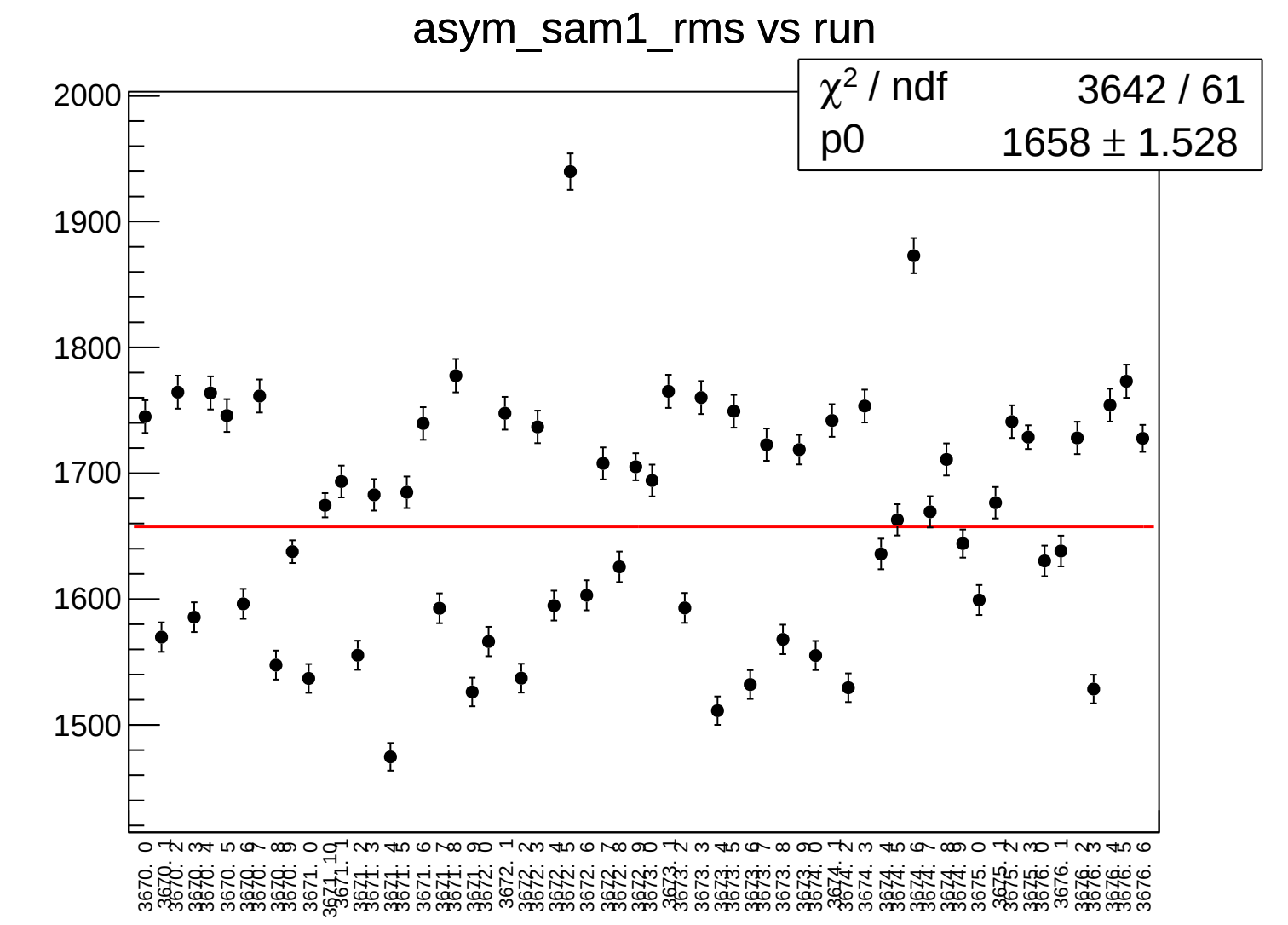

diff_bpm16Y_mean vs run
χ² / ndf 65.75 / 61
p0 1.003 ± 2.04
pull
Entries 62
Mean 285.4
Std Dev 256.4

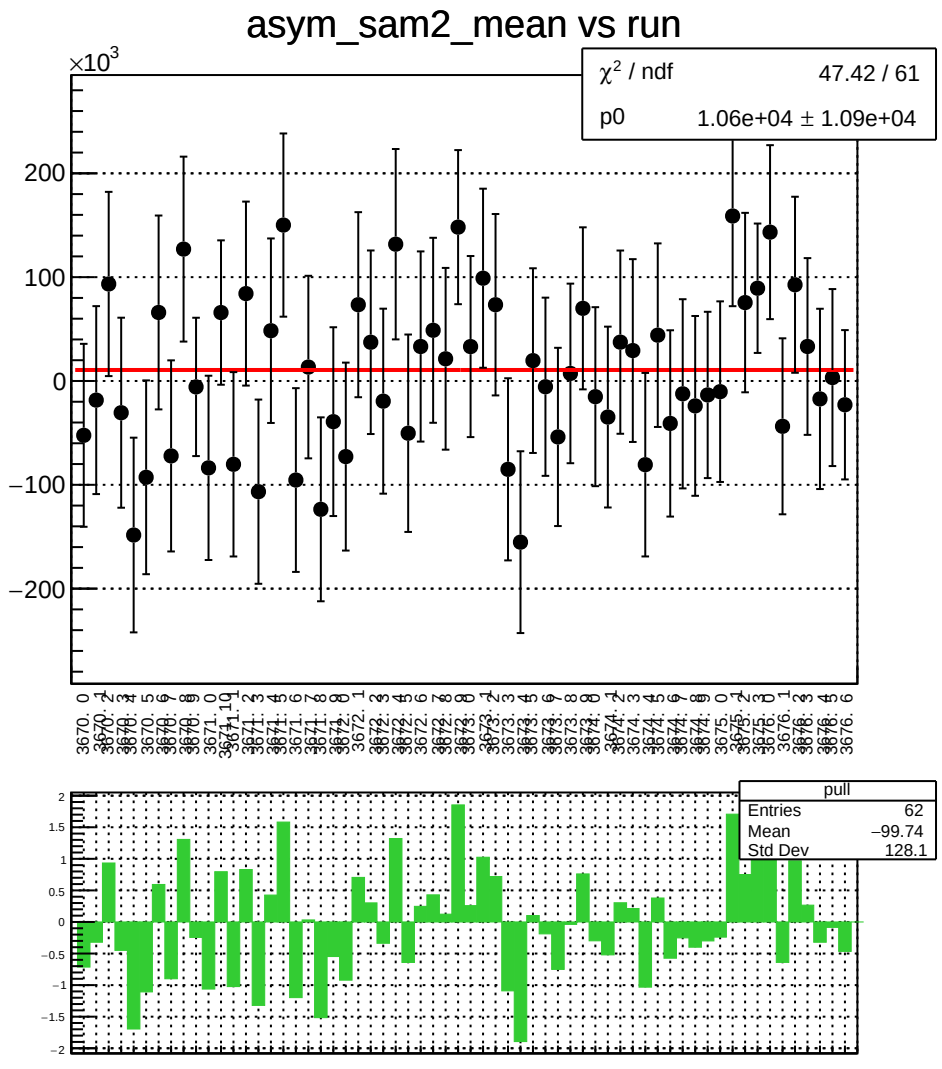

pull1D
Entries 62
Mean −0.007685
Std Dev 1.03

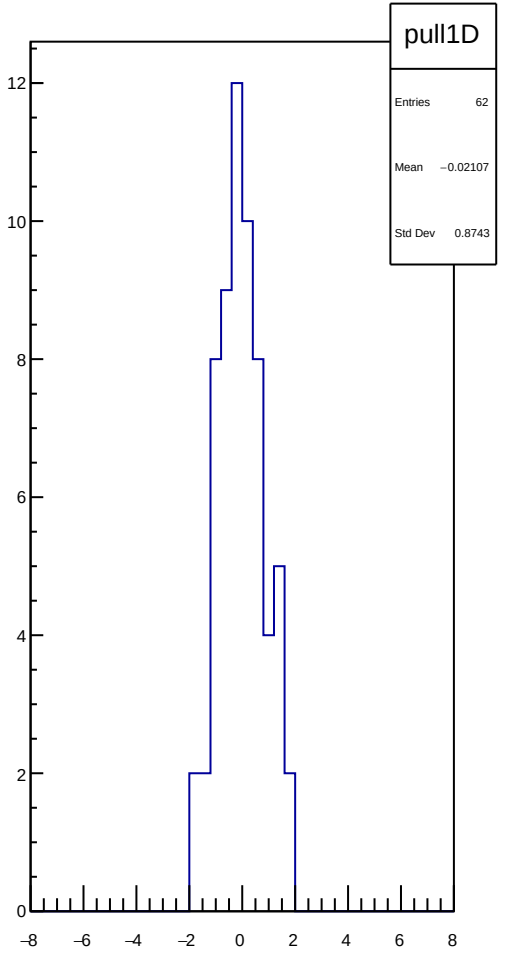

diff_bpm16Y_rms vs run
χ² / ndf 2000 / 61
p0 1566 ± 1.442
1800
1750
1700
1650
1600
1550
1500
1450
1400

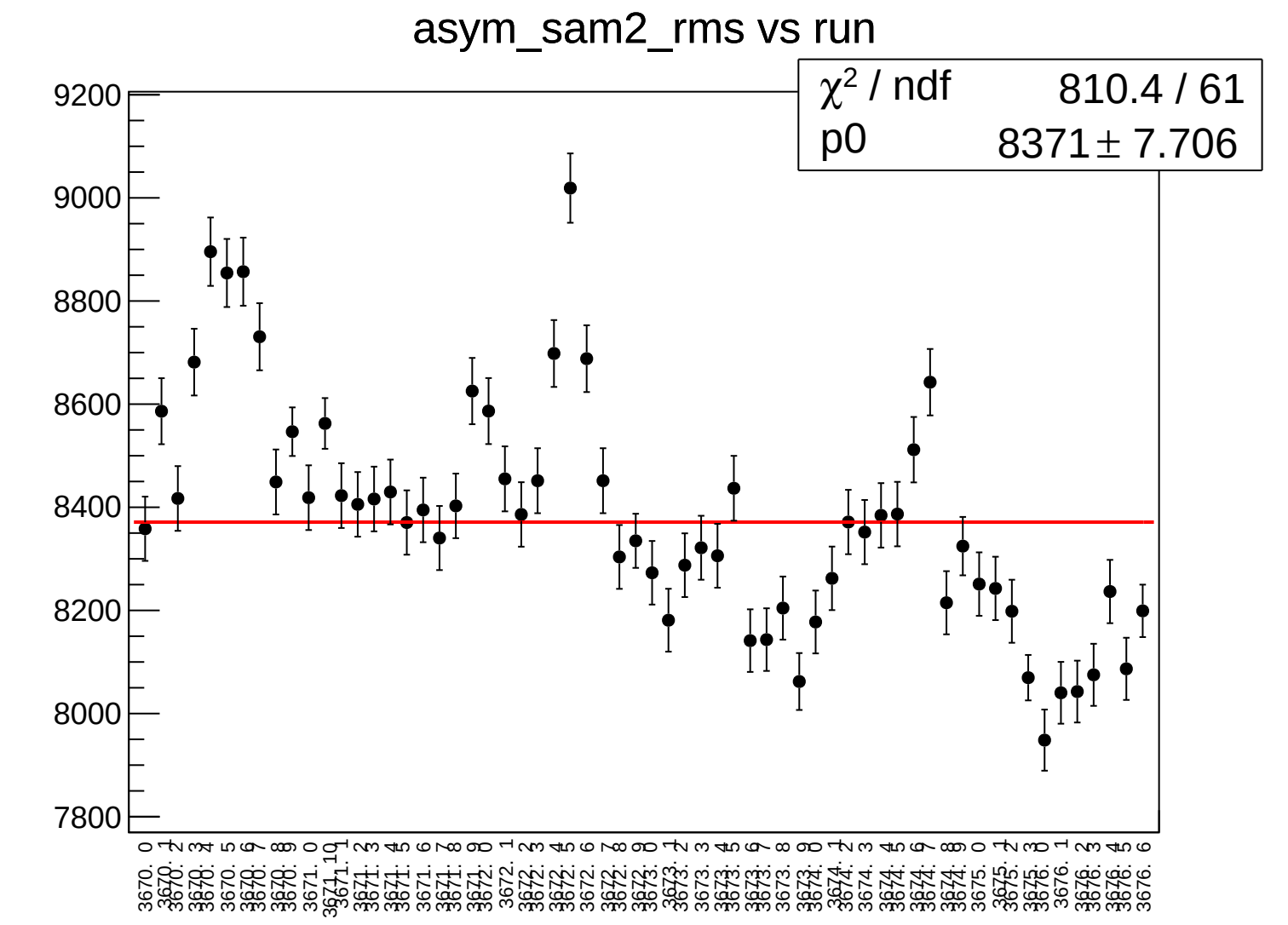

asym_sam1_mean vs run
χ² / ndf 65.34 / 61
p0 2722 ± 2161
pull
Entries 62
Mean −537.9
Std Dev 544.1

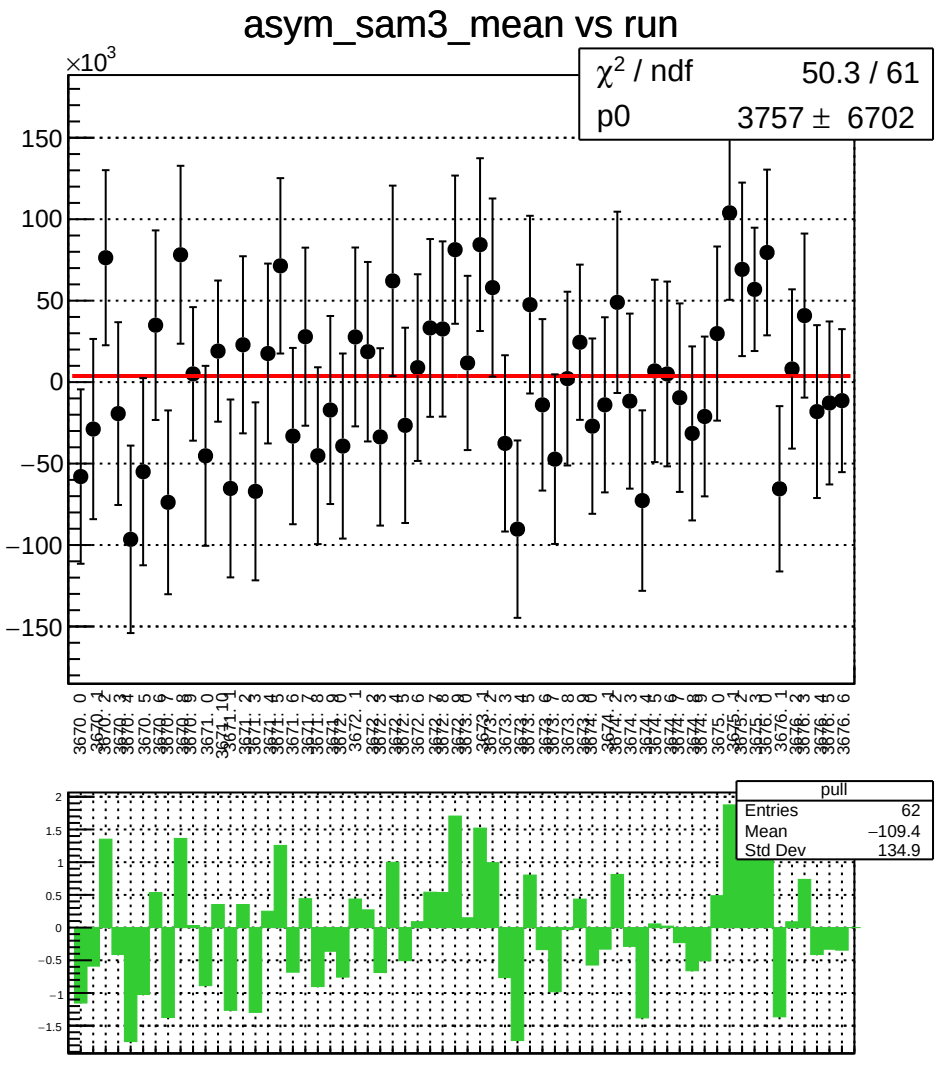

pull1D
Entries 62
Mean 0.0006666
Std Dev 1.027

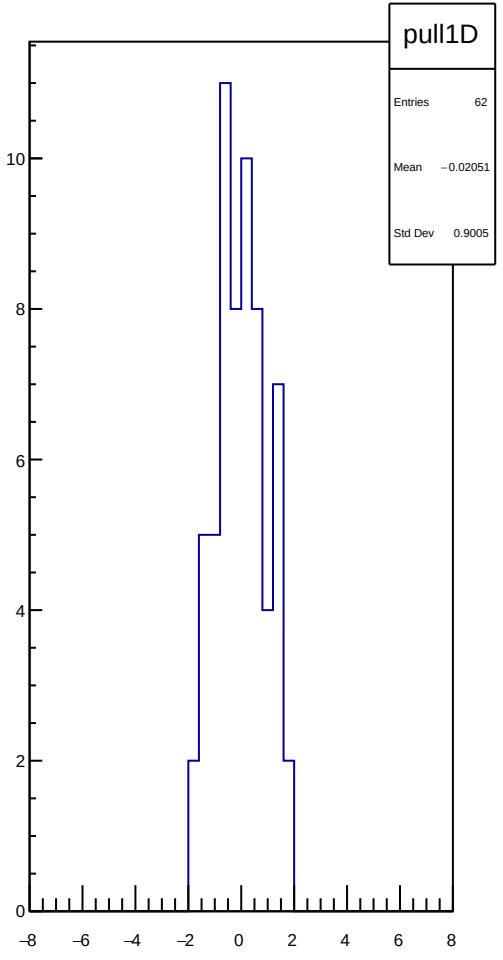

asym_sam1_rms vs run
χ² / ndf 3642 / 61
p0 1658 ± 1.528
2000
1900
1800
1700
1600
1500

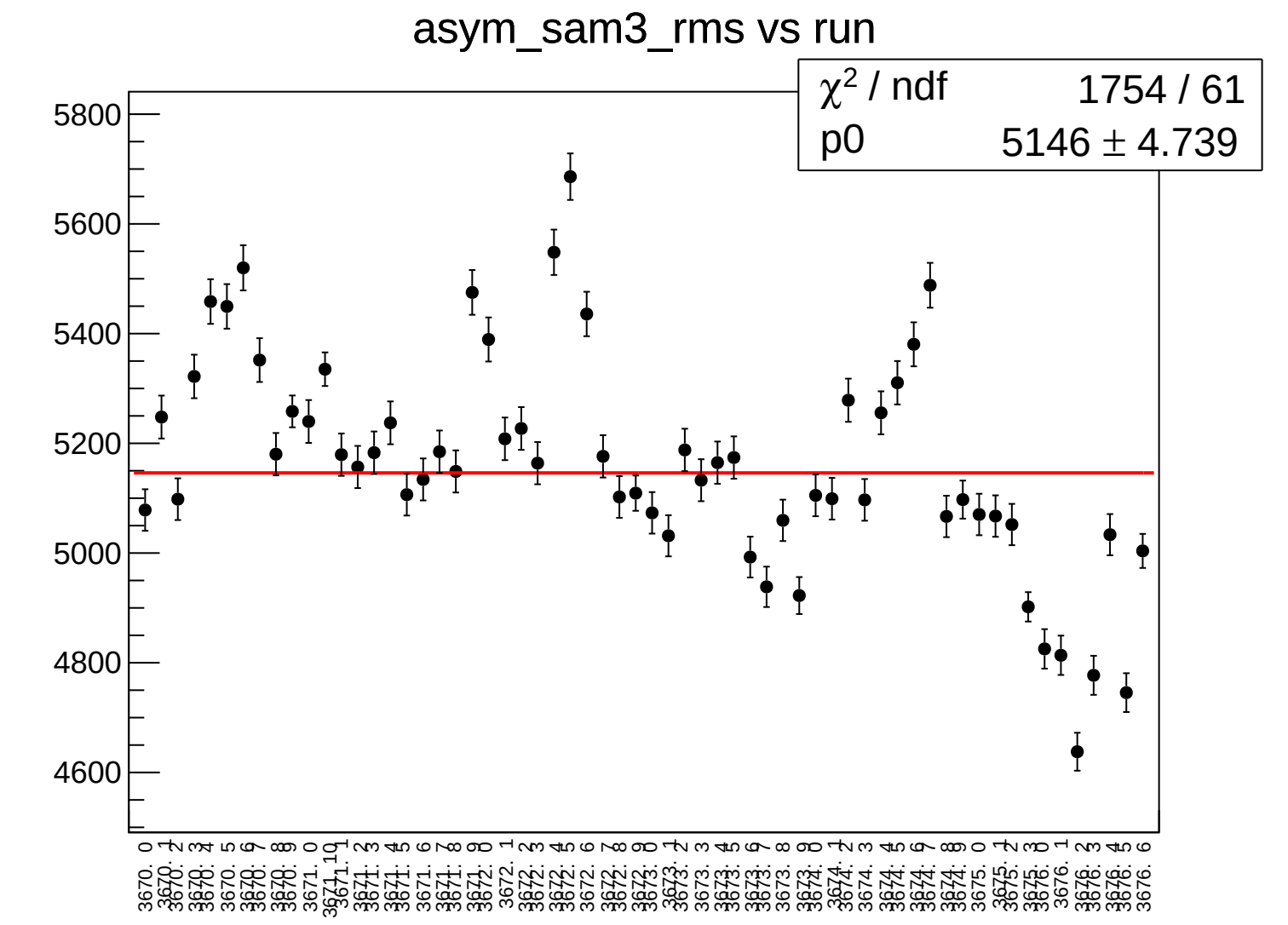

asym_sam2_mean vs run
×10^3
χ² / ndf 47.42 / 61
p0 1.06e+04 ± 1.09e+04
pull
Entries 62
Mean −99.74
Std Dev 128.1

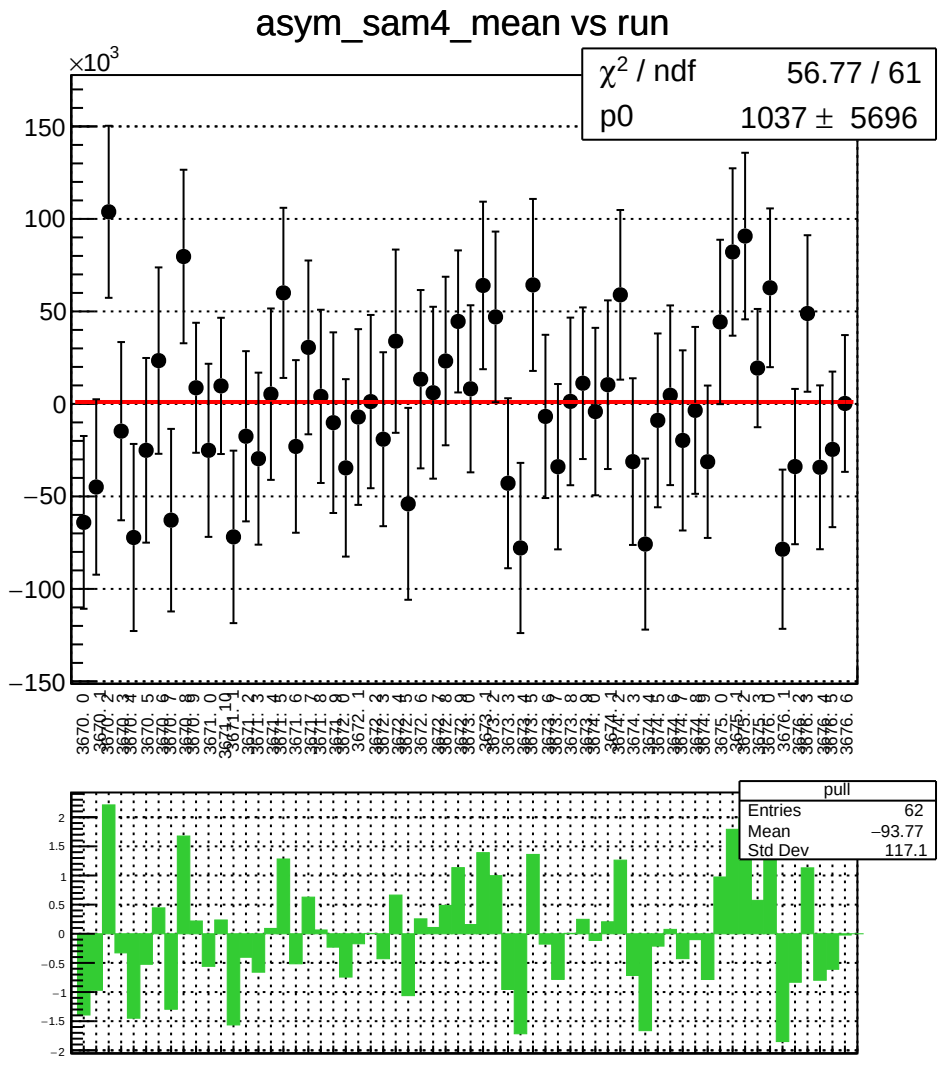

pull1D
Entries 62
Mean −0.02107
Std Dev 0.8743

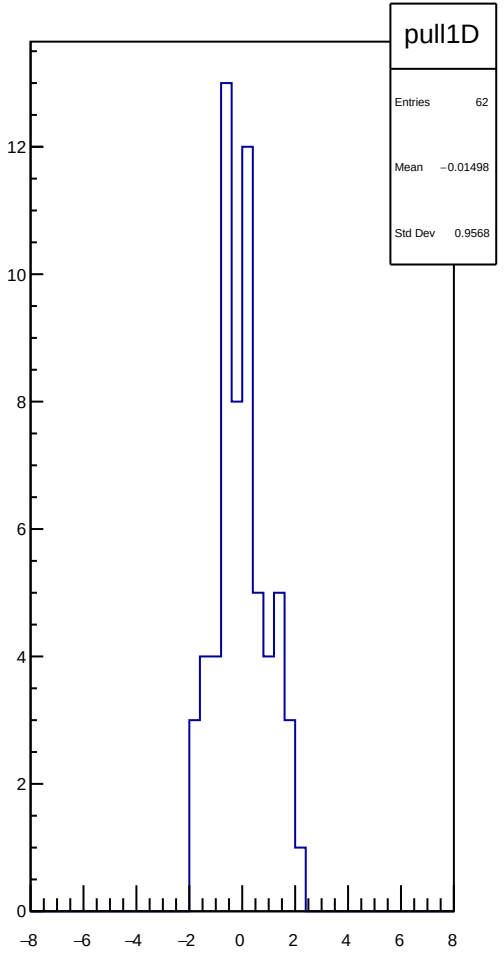

asym_sam2_rms vs run
χ² / ndf 810.4 / 61
p0 8371 ± 7.706
9200
9000
8800
8600
8400
8200
8000
7800
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

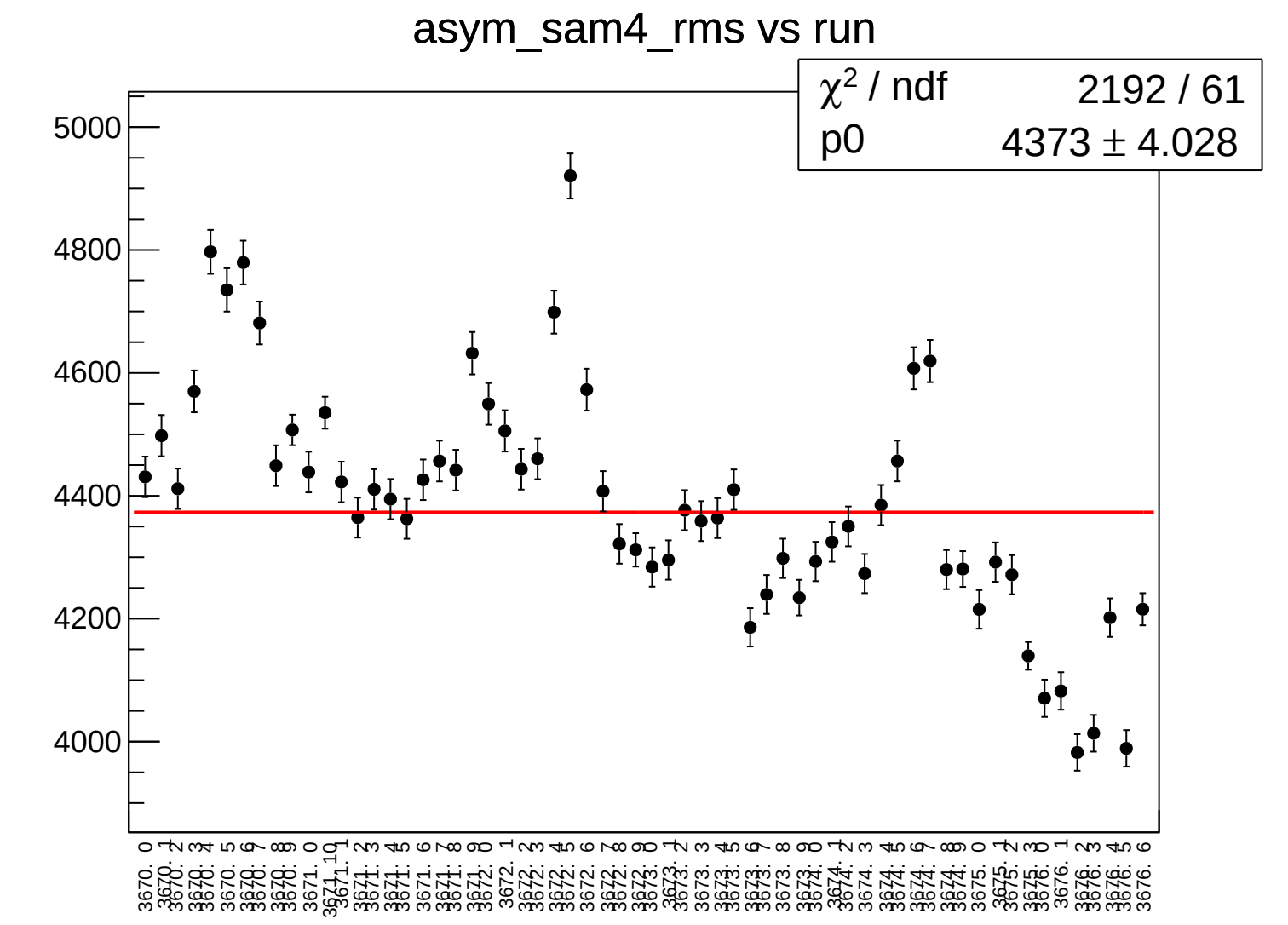

asym_sam3_mean vs run
×10^3
χ² / ndf 50.3 / 61
p0 3757 ± 6702
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −109.4
Std Dev 134.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

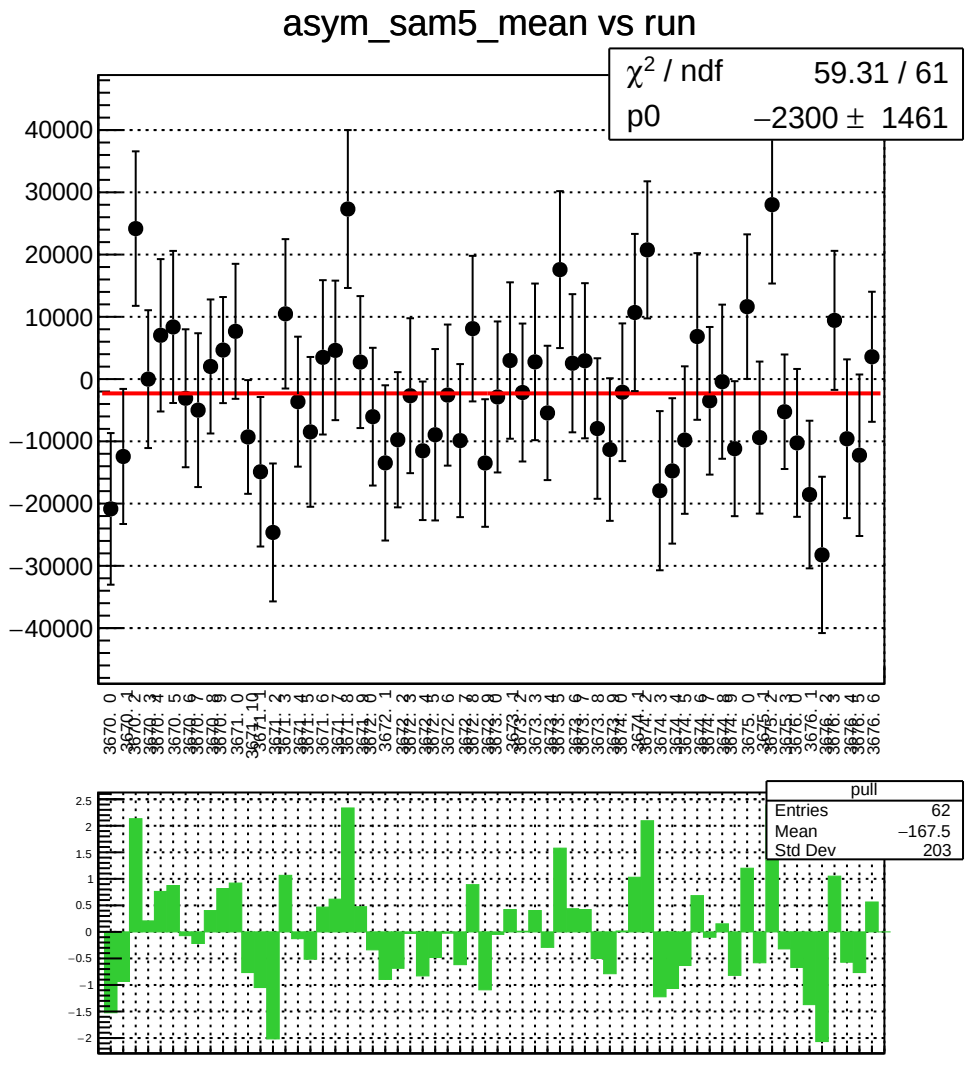

pull1D
Entries 62
Mean −0.02051
Std Dev 0.9005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

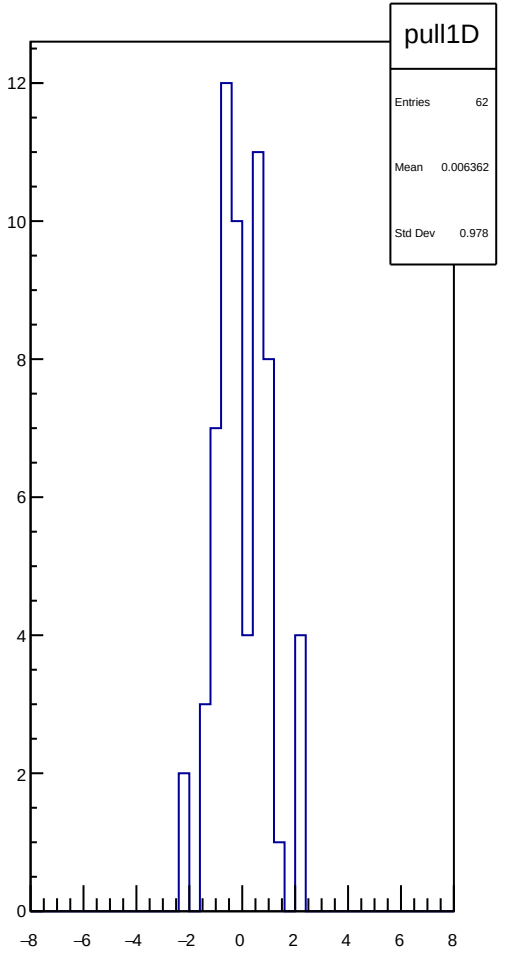

asym_sam3_rms vs run
χ² / ndf 1754 / 61
p0 5146 ± 4.739
5800
5600
5400
5200
5000
4800
4600
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

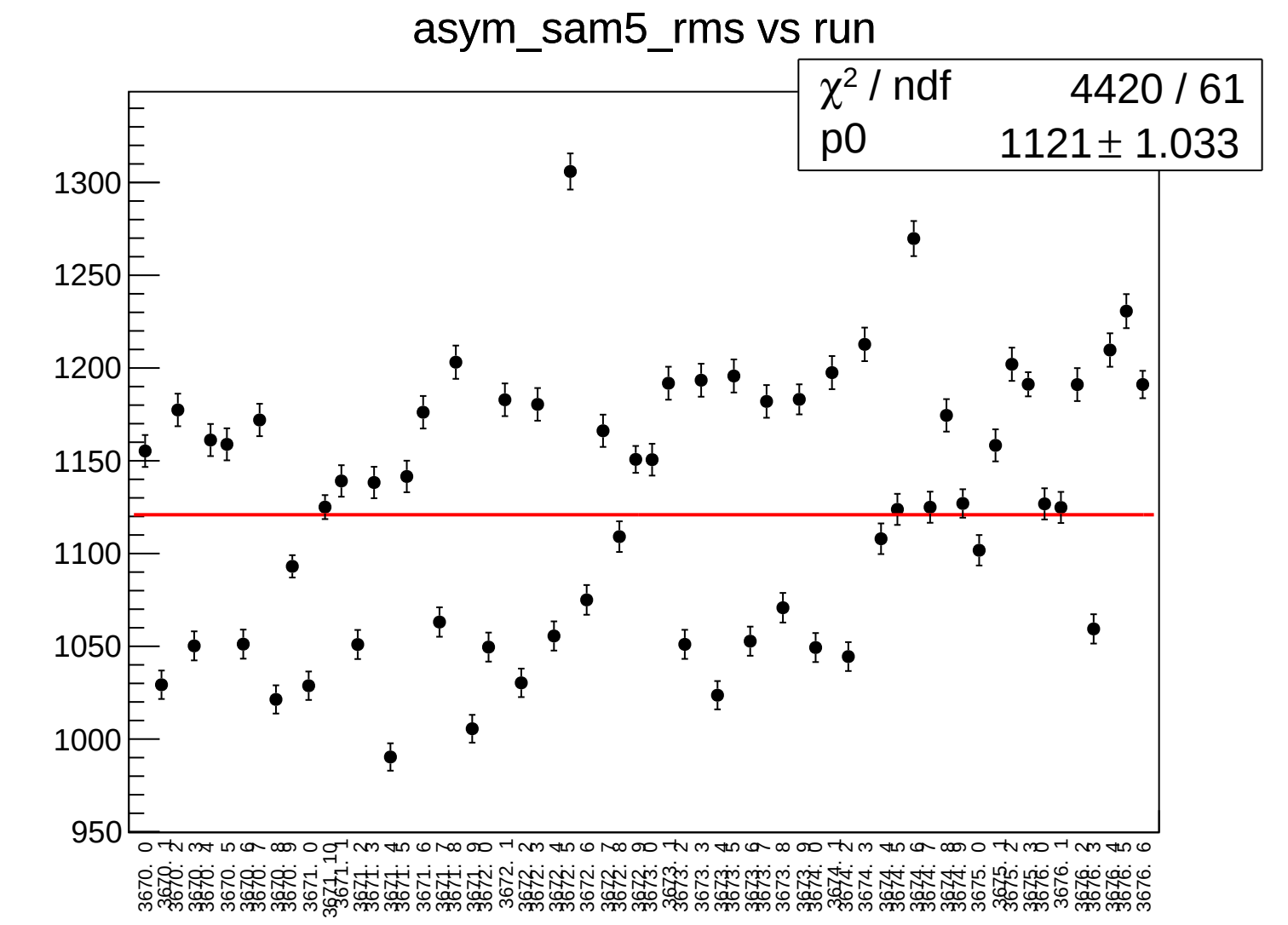

asym_sam4_mean vs run
×10^3
χ^2 / ndf 56.77 / 61
p0 1037 ± 5696
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −93.77
Std Dev 117.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

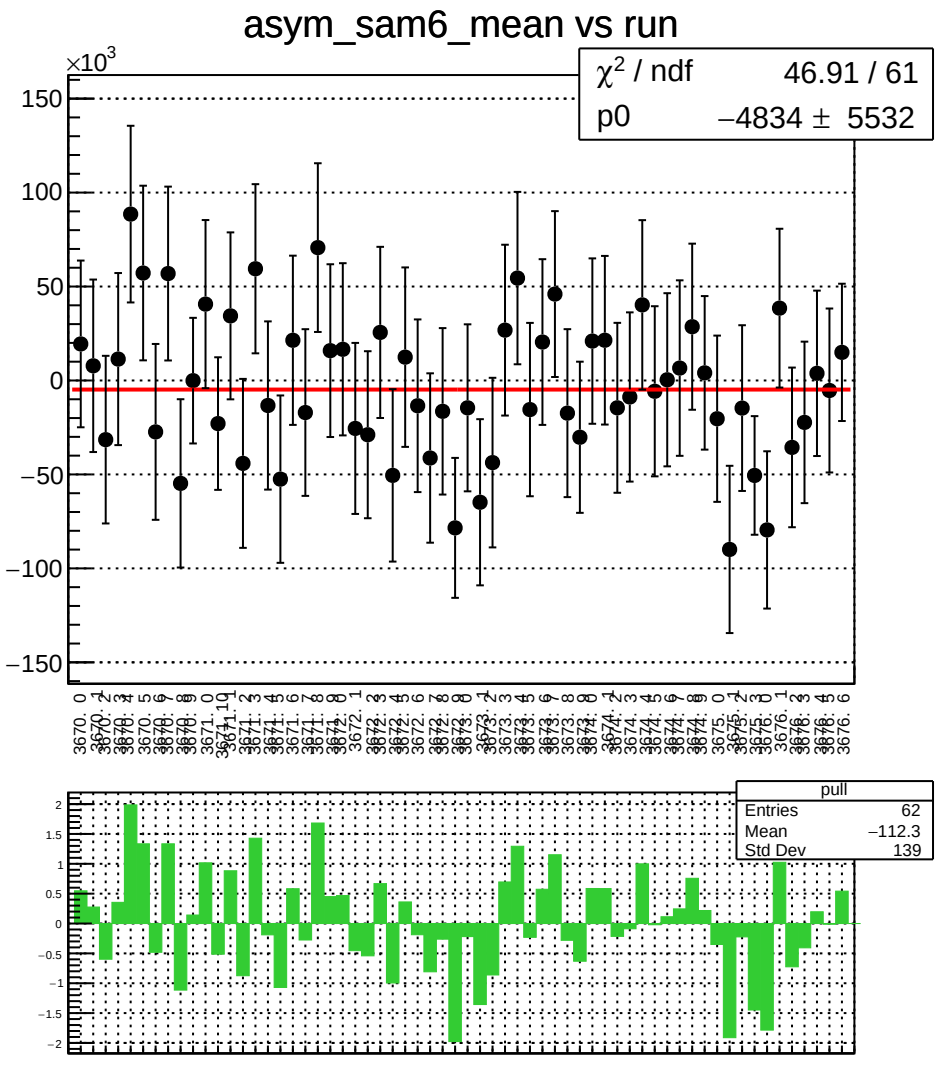

pull1D
Entries 62
Mean −0.01498
Std Dev 0.9568
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

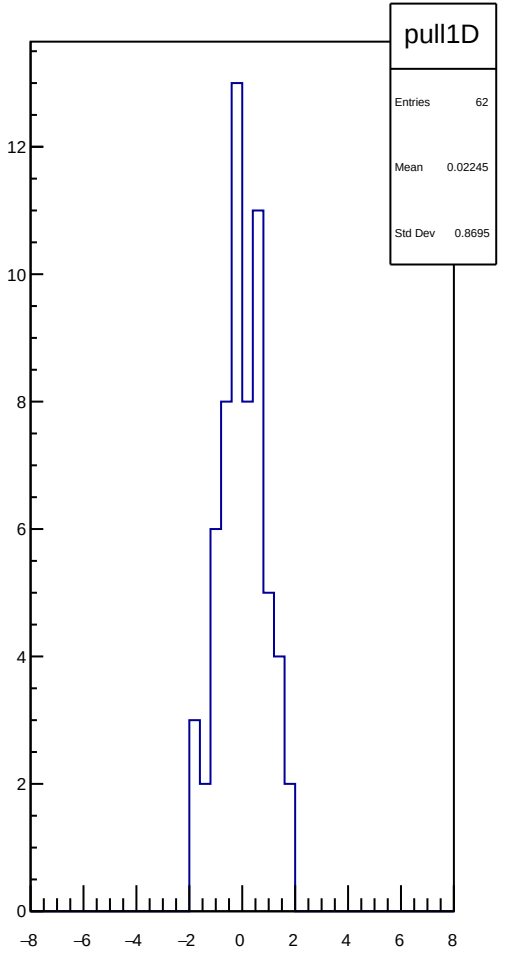

asym_sam4_rms vs run
χ² / ndf 2192 / 61
p0 4373 ± 4.028
5000
4800
4600
4400
4200
4000

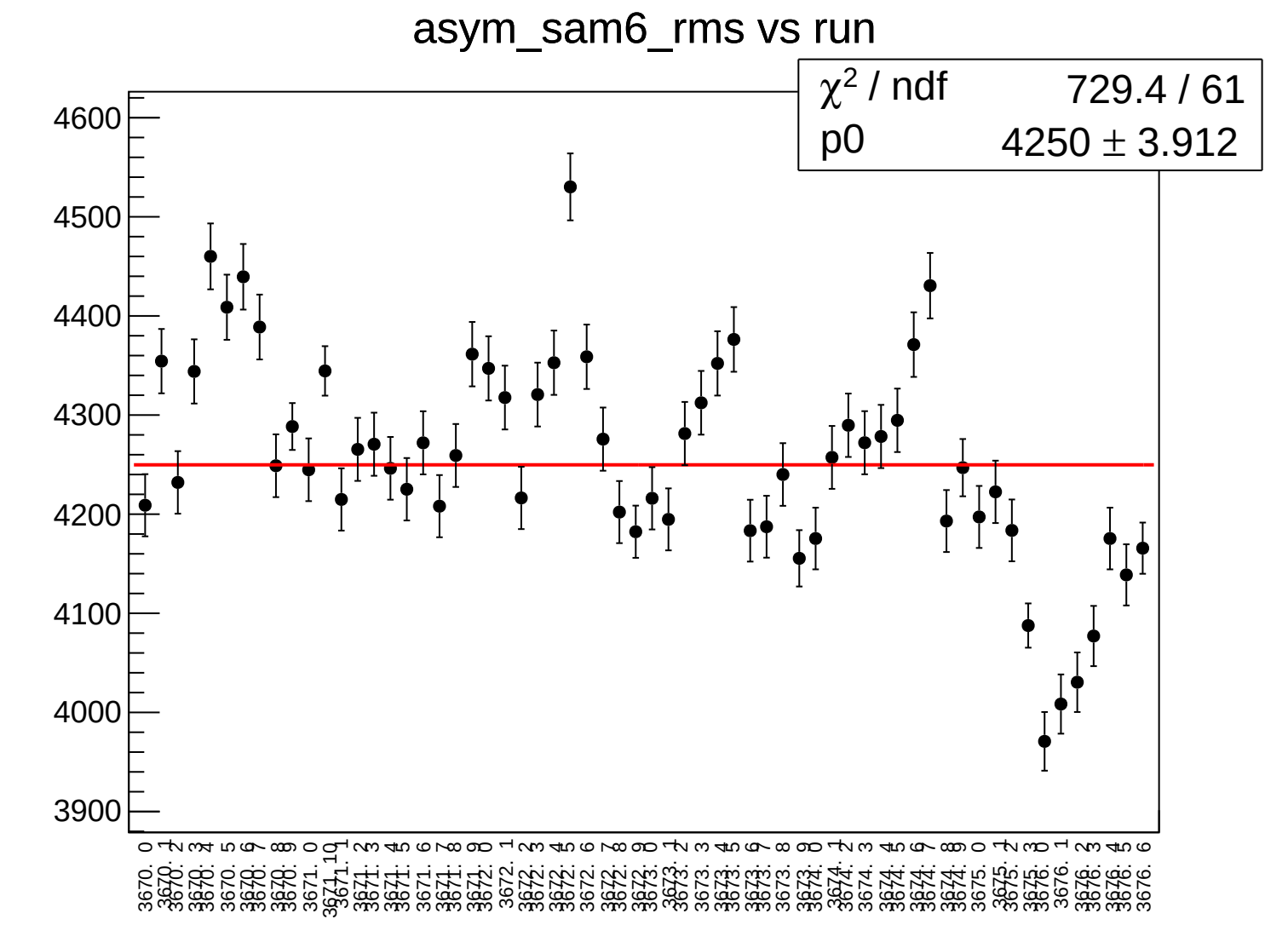

asym_sam5_mean vs run
χ² / ndf 59.31 / 61
p0 −2300 ± 1461
pull
Entries 62
Mean −167.5
Std Dev 203

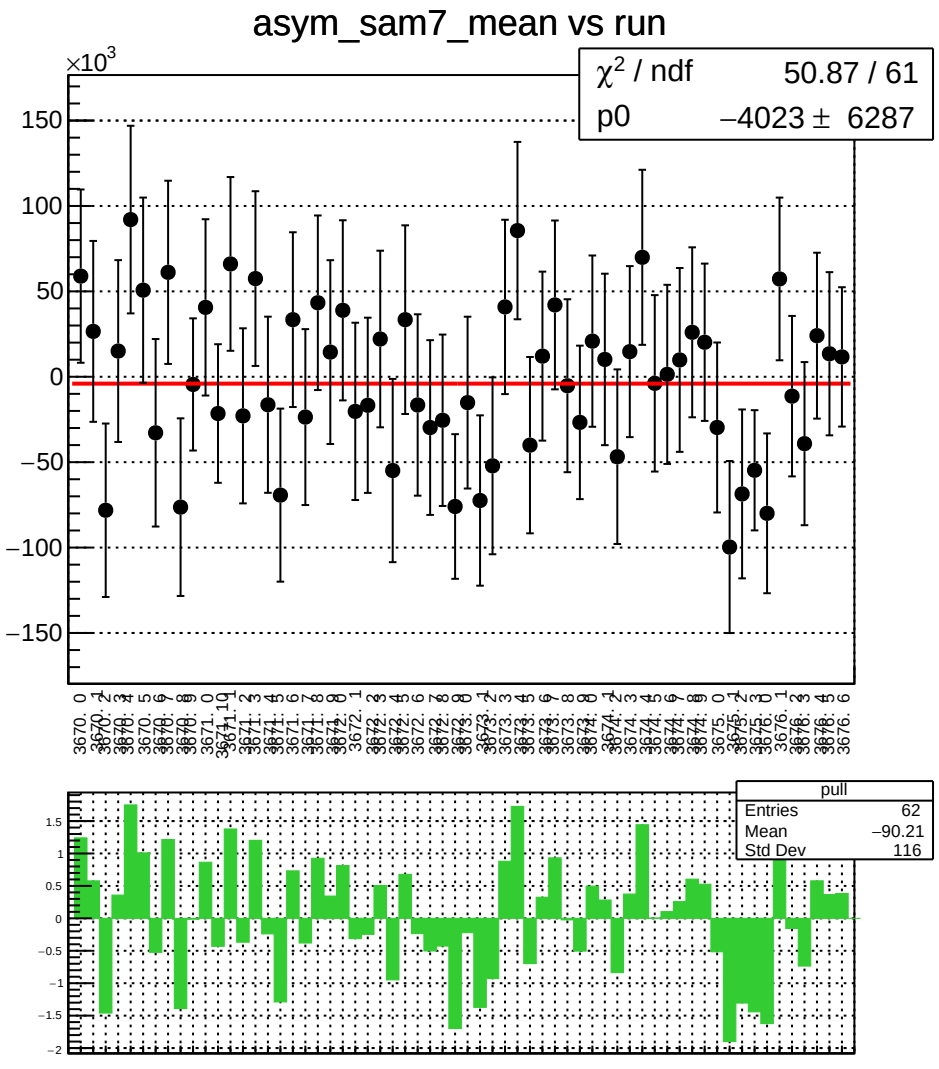

pull1D
Entries 62
Mean 0.006362
Std Dev 0.978

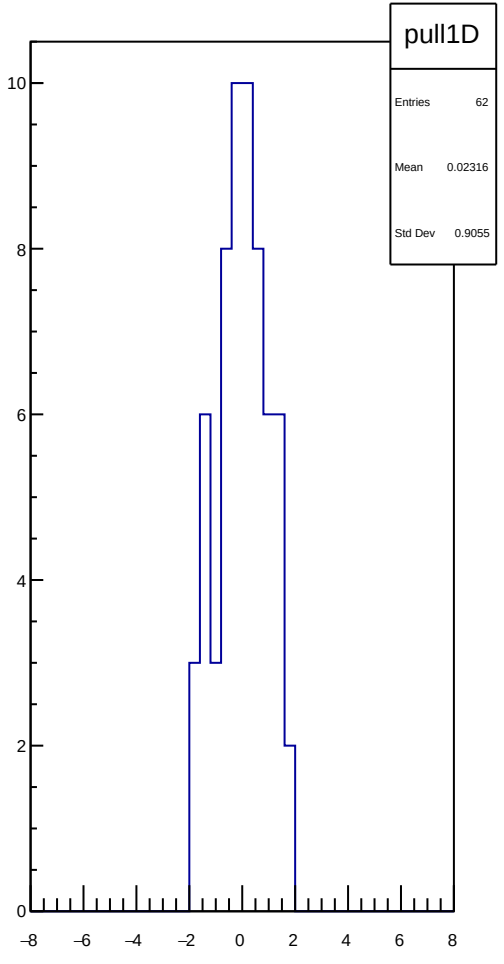

asym_sam5_rms vs run
χ² / ndf 4420 / 61
p0 1121 ± 1.033
1300
1250
1200
1150
1100
1050
1000
950

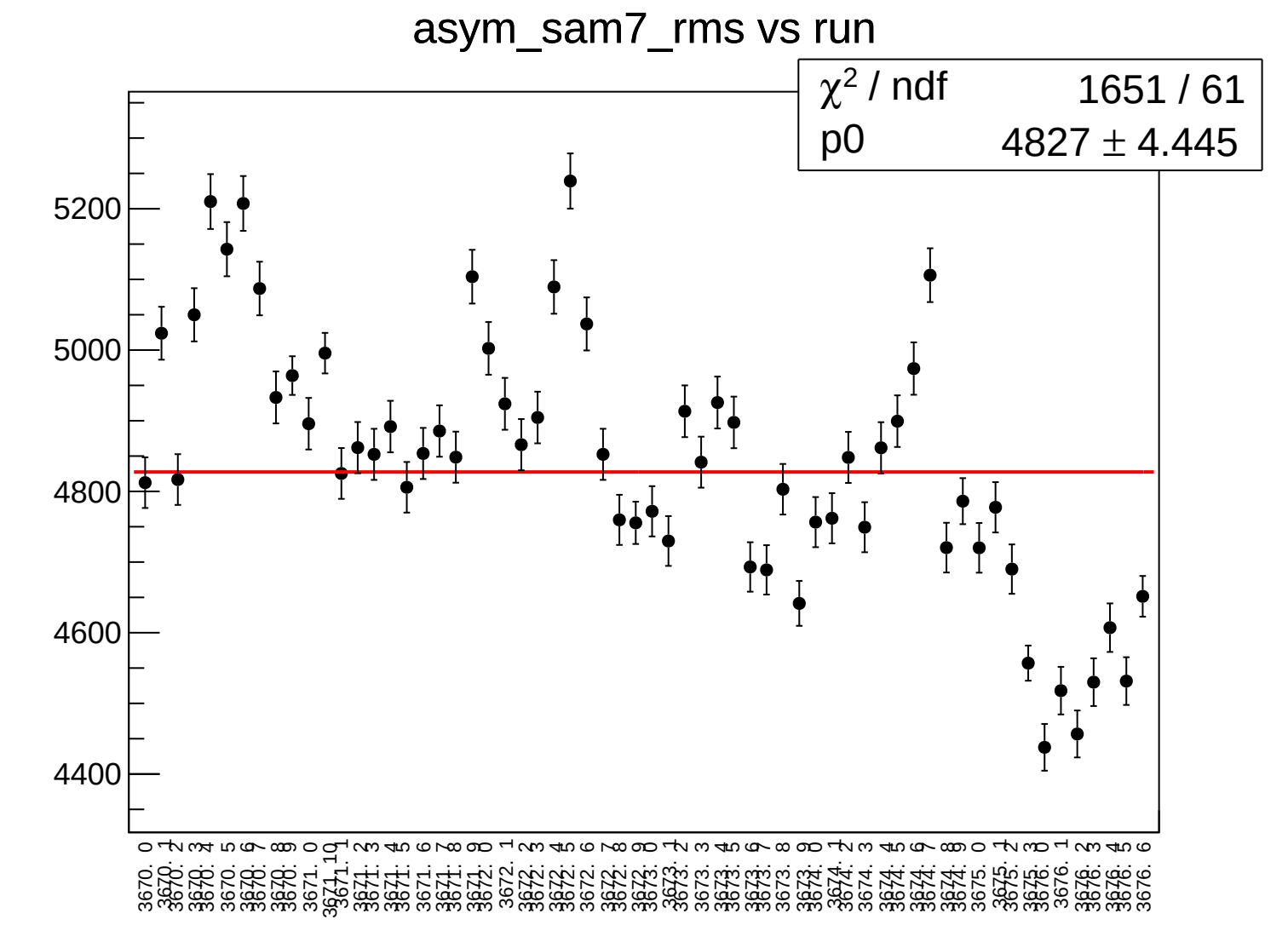

asym_sam6_mean vs run
×10^3
χ² / ndf 46.91 / 61
p0 −4834 ± 5532
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −112.3
Std Dev 139
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

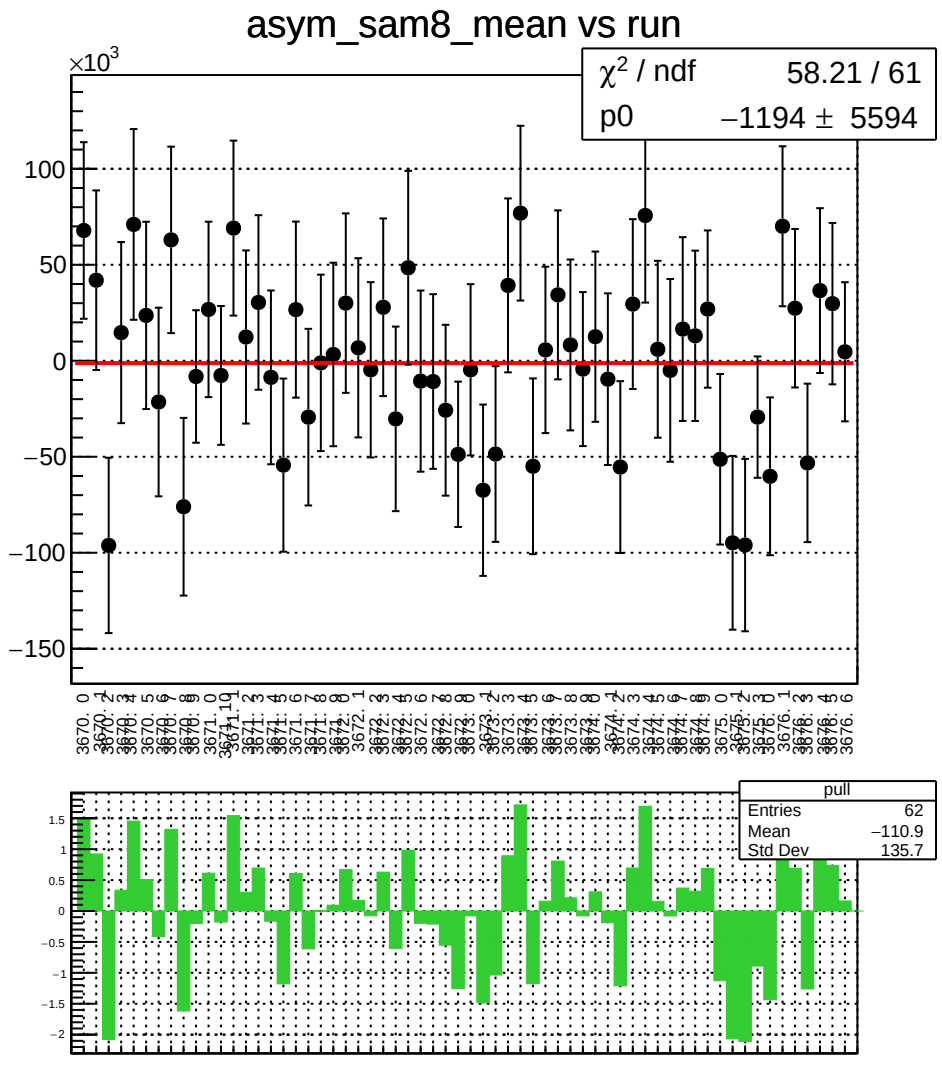

pull1D
Entries 62
Mean 0.02245
Std Dev 0.8695
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

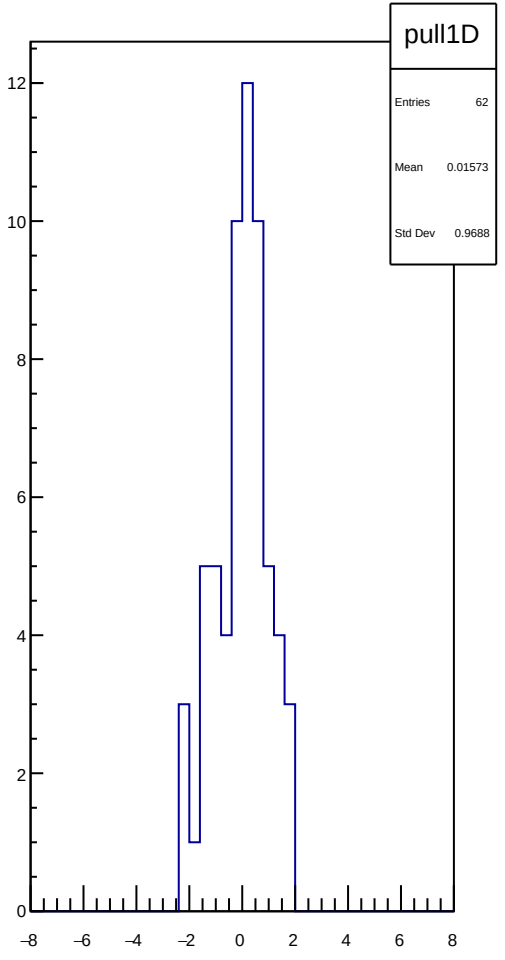

asym_sam6_rms vs run
χ² / ndf 729.4 / 61
p0 4250 ± 3.912
4600
4500
4400
4300
4200
4100
4000
3900
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

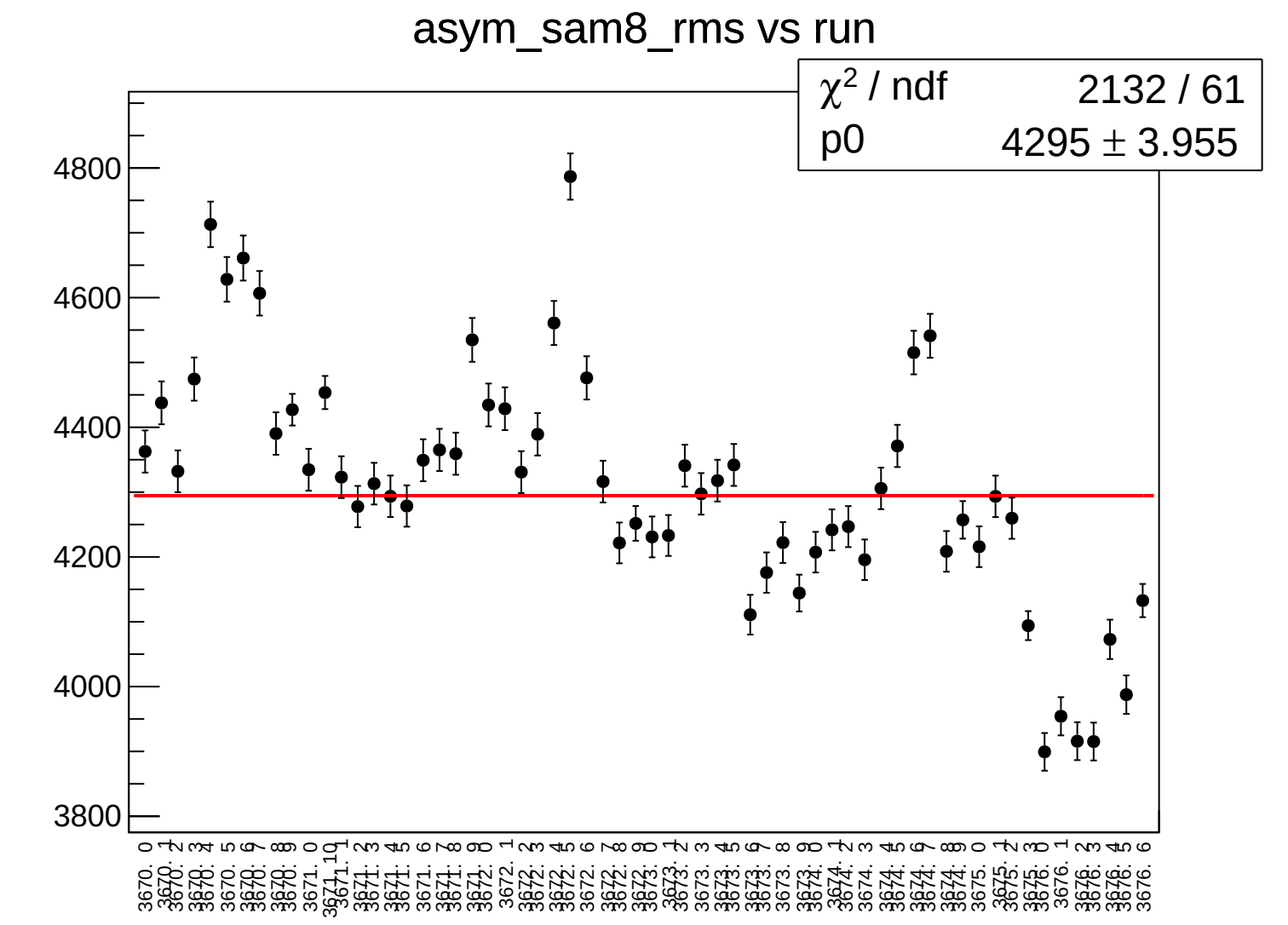

asym_sam7_mean vs run
×10^3
χ² / ndf 50.87 / 61
p0 −4023 ± 6287
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −90.21
Std Dev 116
1.5
1
0.5
0
−0.5
−1
−1.5
−2

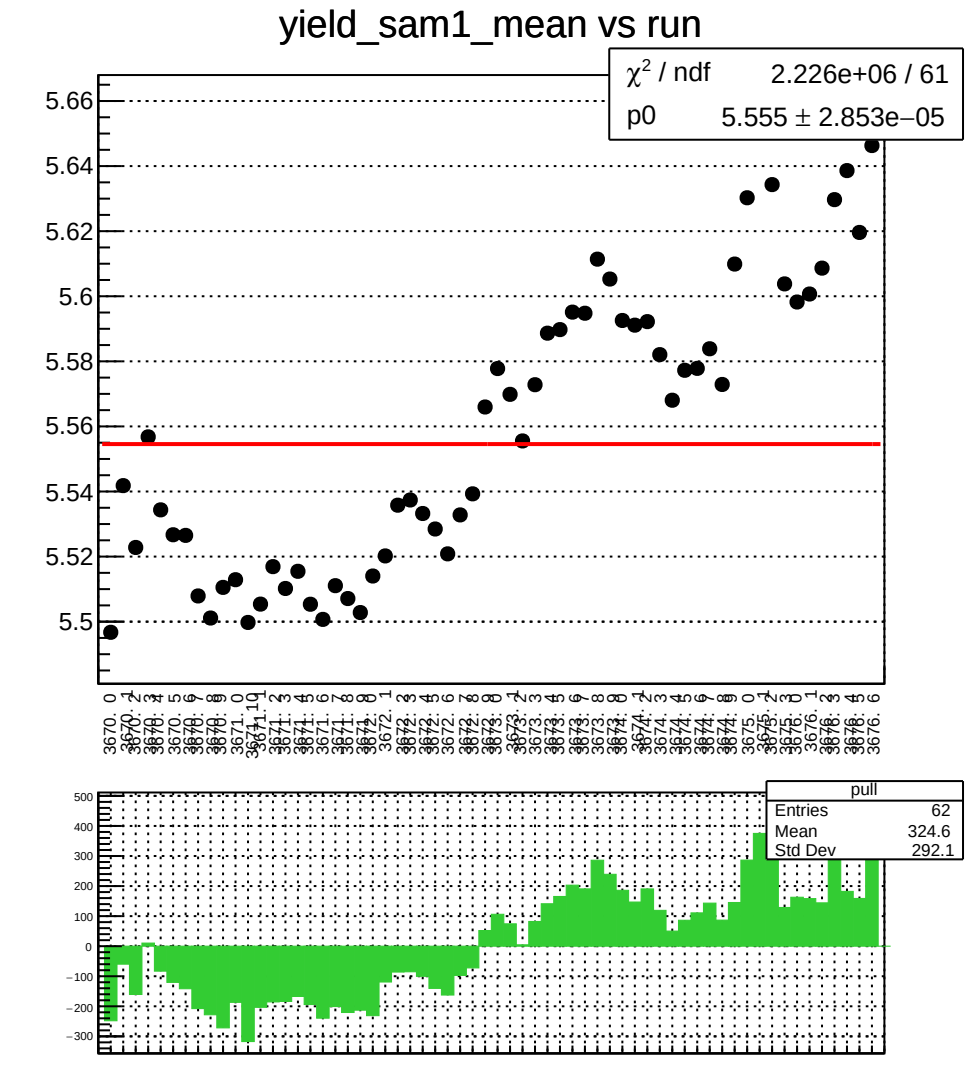

pull1D
Entries 62
Mean 0.02316
Std Dev 0.9055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

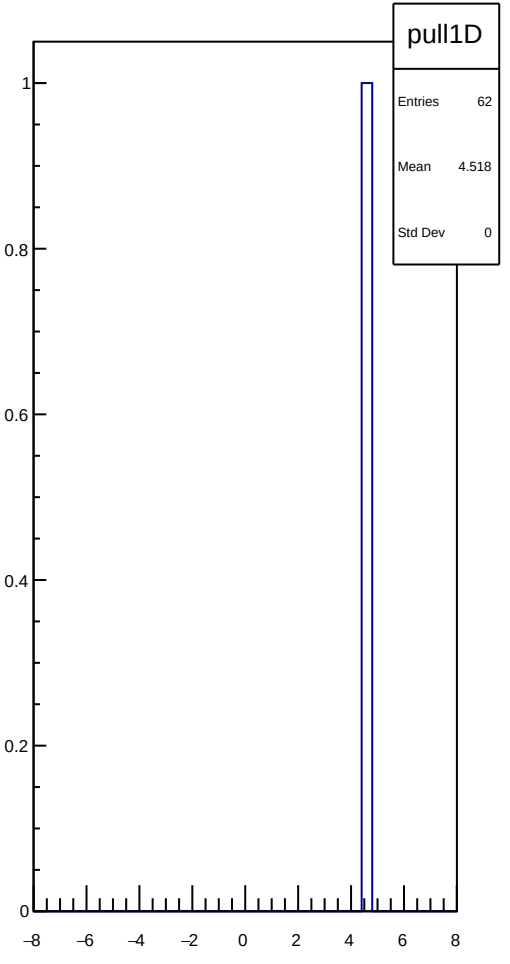

asym_sam7_rms vs run
χ² / ndf 1651 / 61
p0 4827 ± 4.445
5200
5000
4800
4600
4400

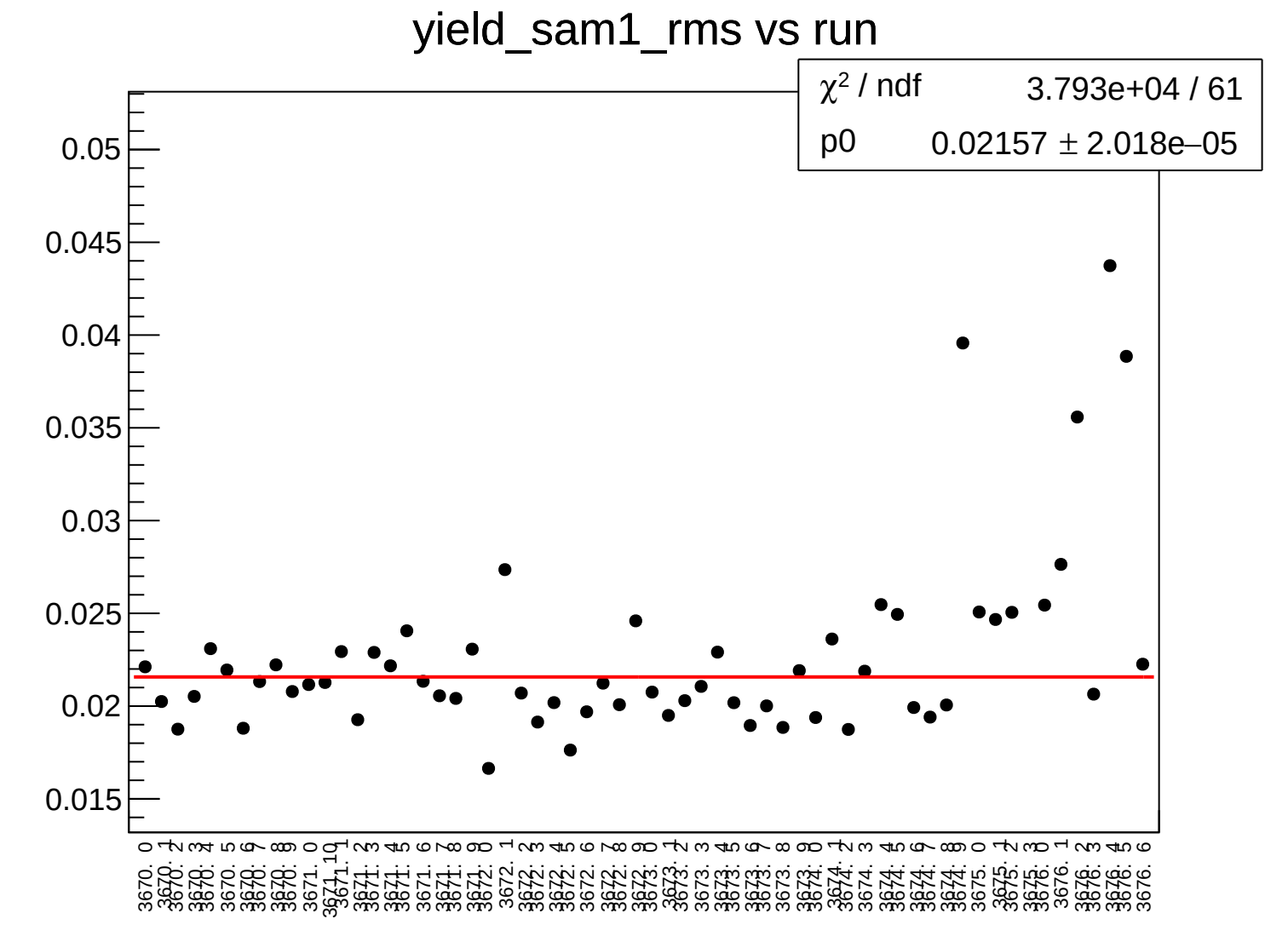

asym_sam8_mean vs run
×10^3
χ^2 / ndf 58.21 / 61
p0 −1194 ± 5594
100
50
0
−50
−100
−150
pull
Entries 62
Mean −110.9
Std Dev 135.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

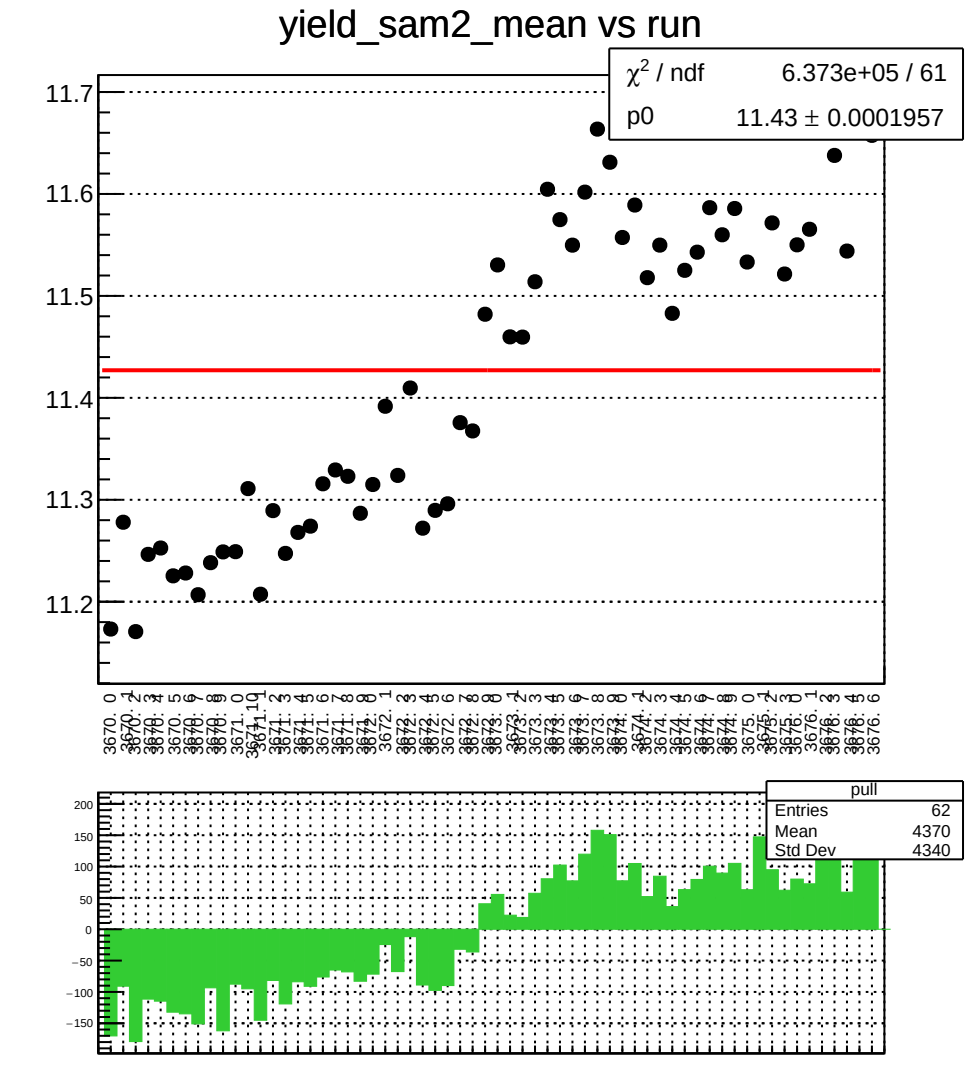

pull1D
Entries 62
Mean 0.01573
Std Dev 0.9688
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

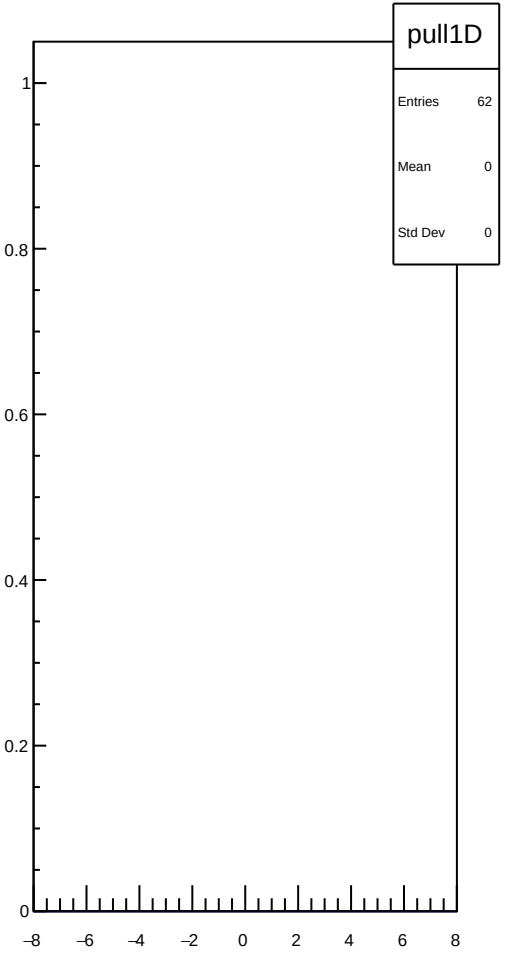

asym_sam8_rms vs run
χ² / ndf 2132 / 61
p0 4295 ± 3.955
4800
4600
4400
4200
4000
3800

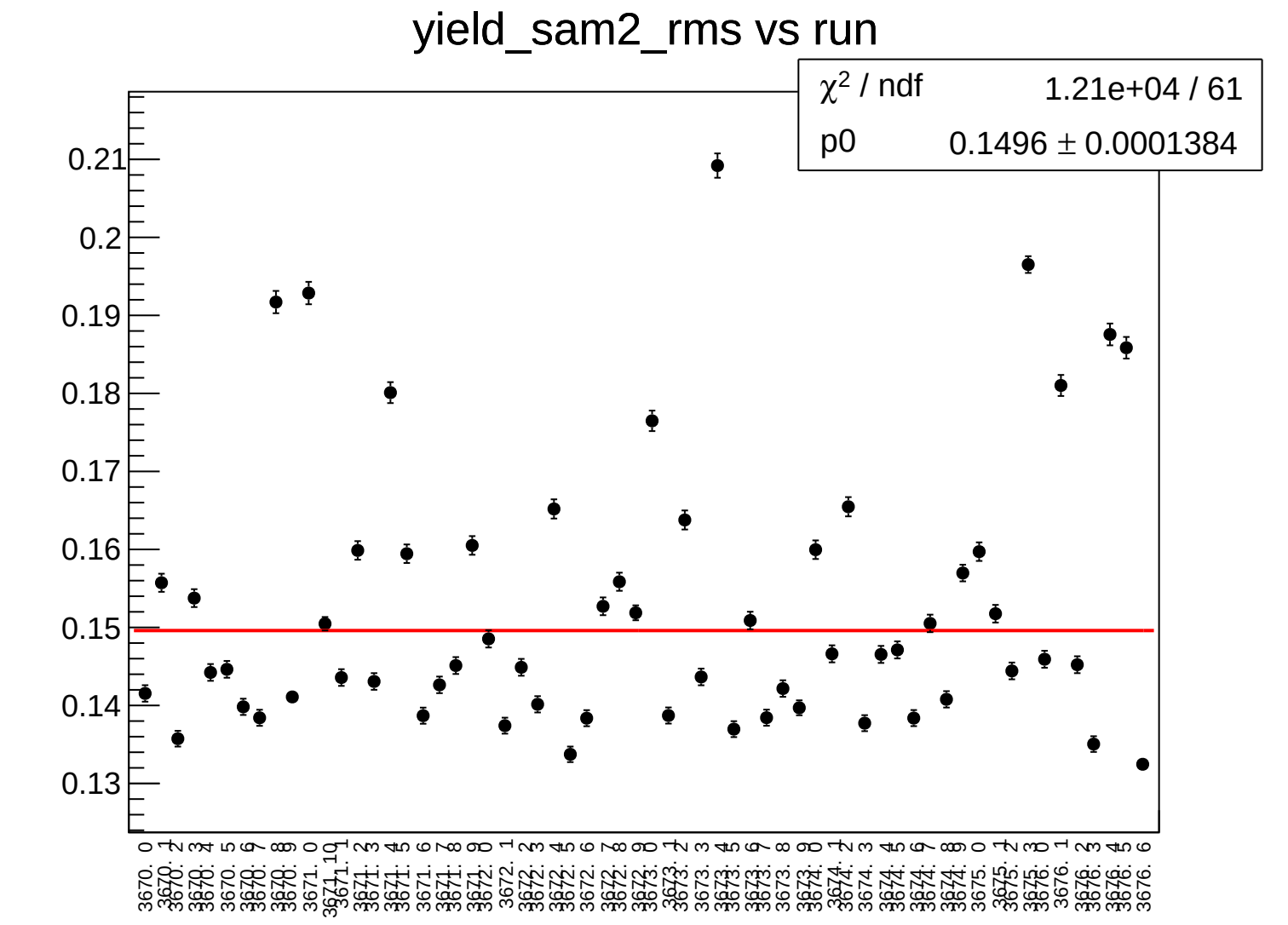

yield_sam1_mean vs run
χ² / ndf 2.226e+06 / 61
p0 5.555 ± 2.853e−05
pull
Entries 62
Mean 324.6
Std Dev 292.1

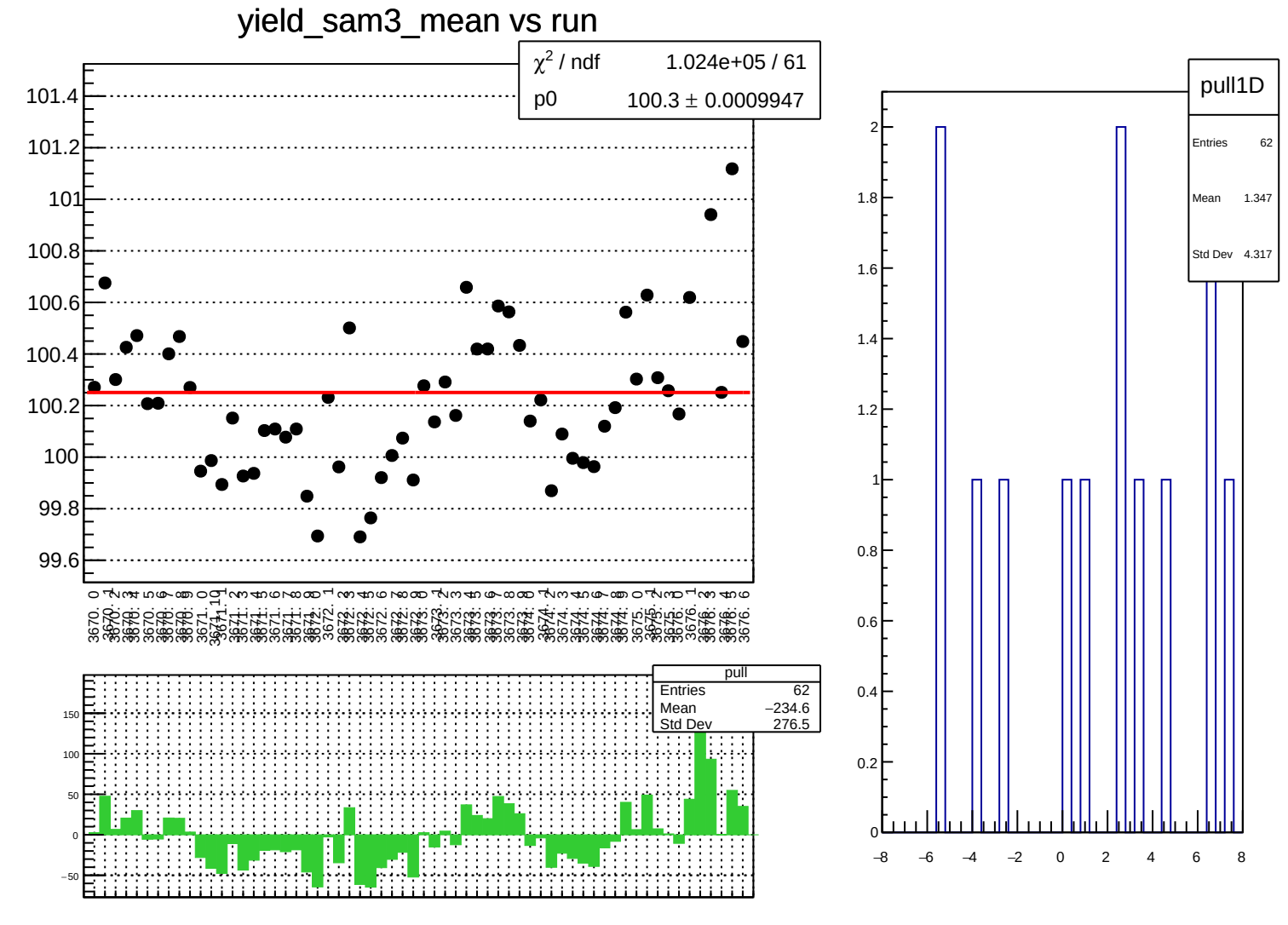

pull1D
Entries 62
Mean 4.518
Std Dev 0

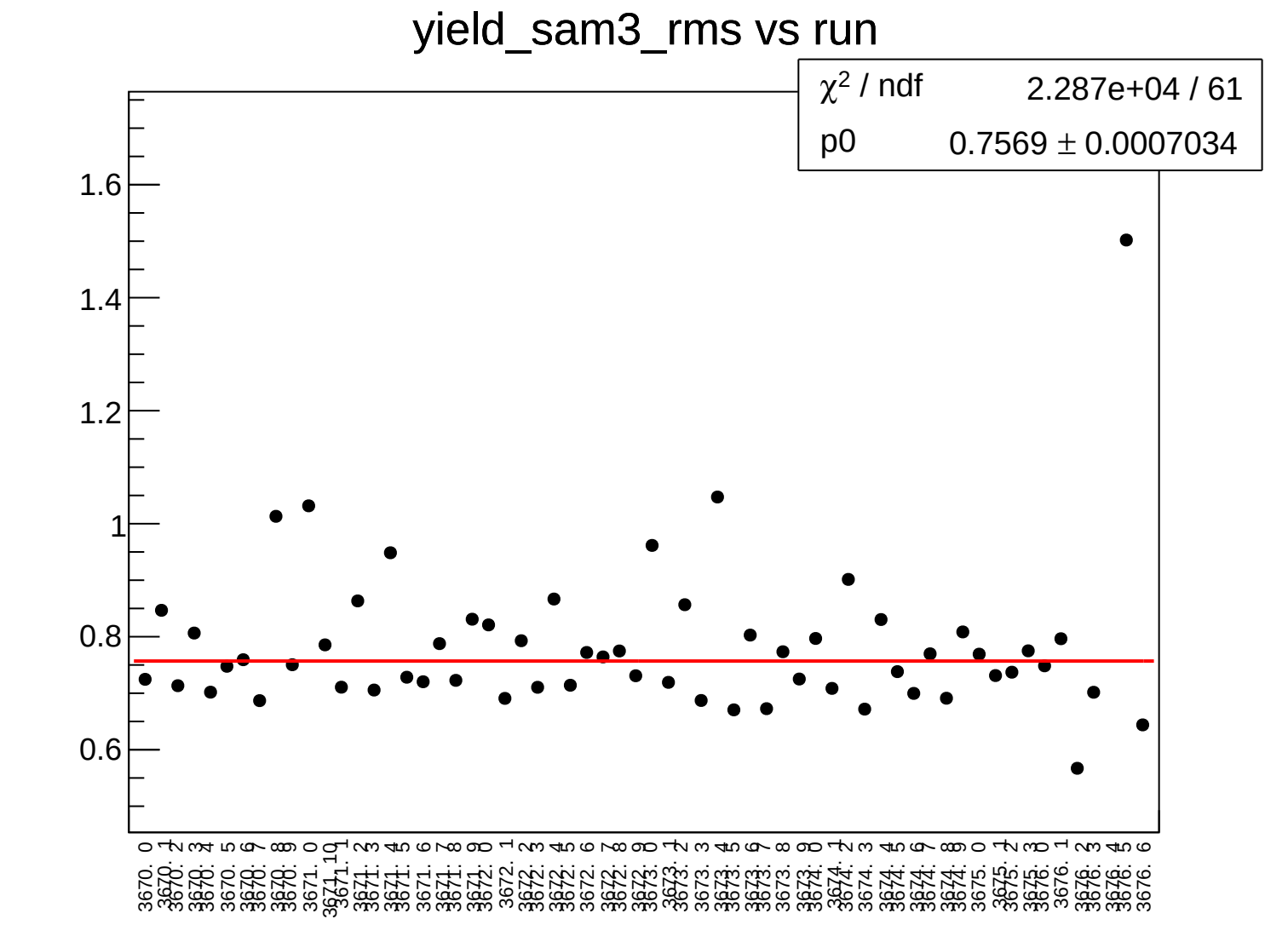

yield_sam1_rms vs run
χ² / ndf 3.793e+04 / 61
p0 0.02157 ± 2.018e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

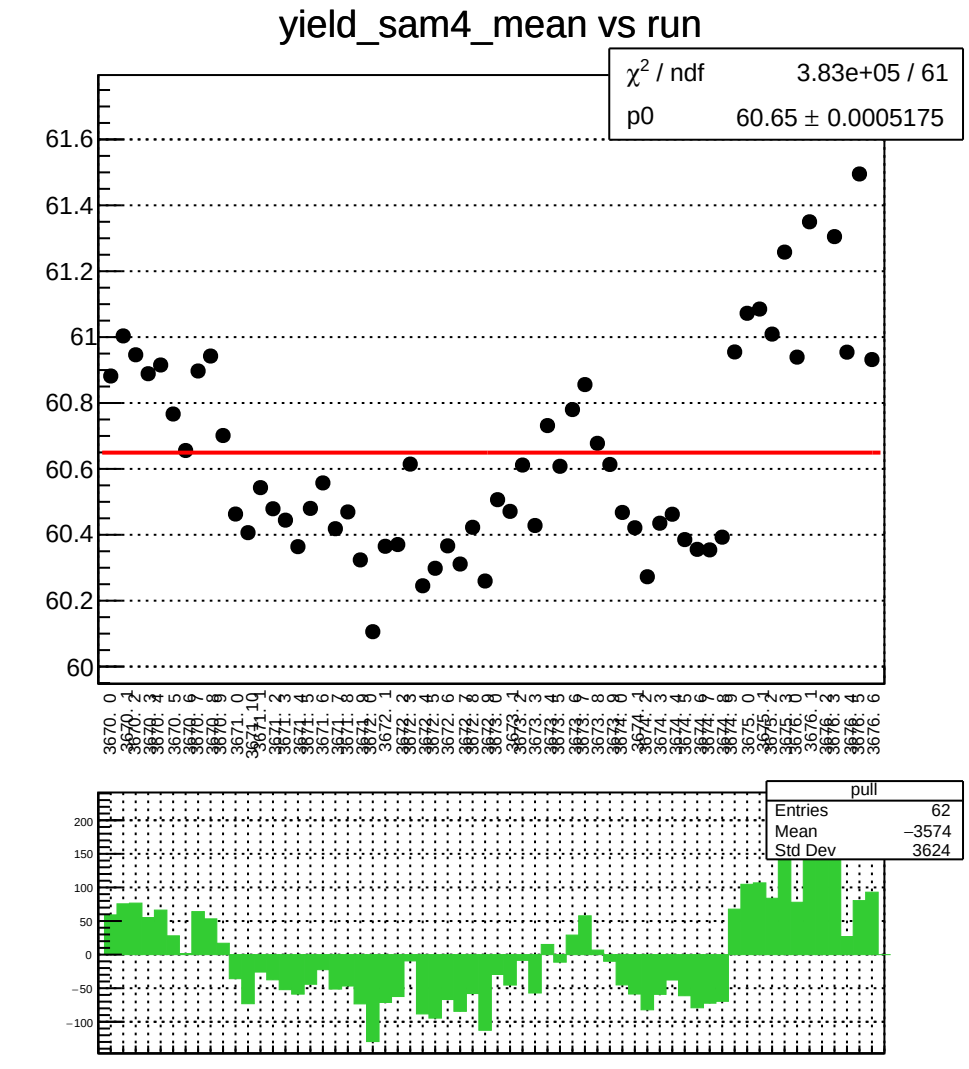

yield_sam2_mean vs run
χ² / ndf 6.373e+05 / 61
p0 11.43 ± 0.0001957
11.7
11.6
11.5
11.4
11.3
11.2
pull
Entries 62
Mean 4370
Std Dev 4340
200
150
100
50
0
−50
−100
−150

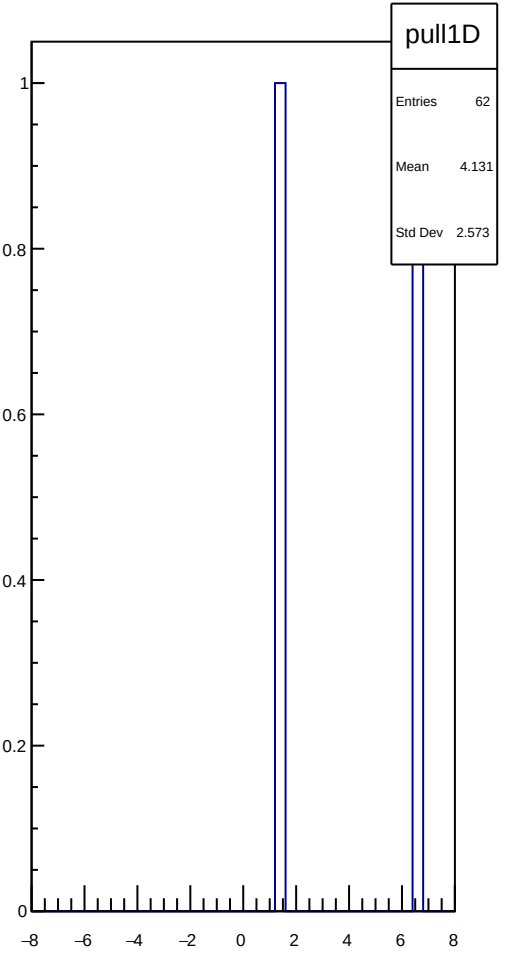

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

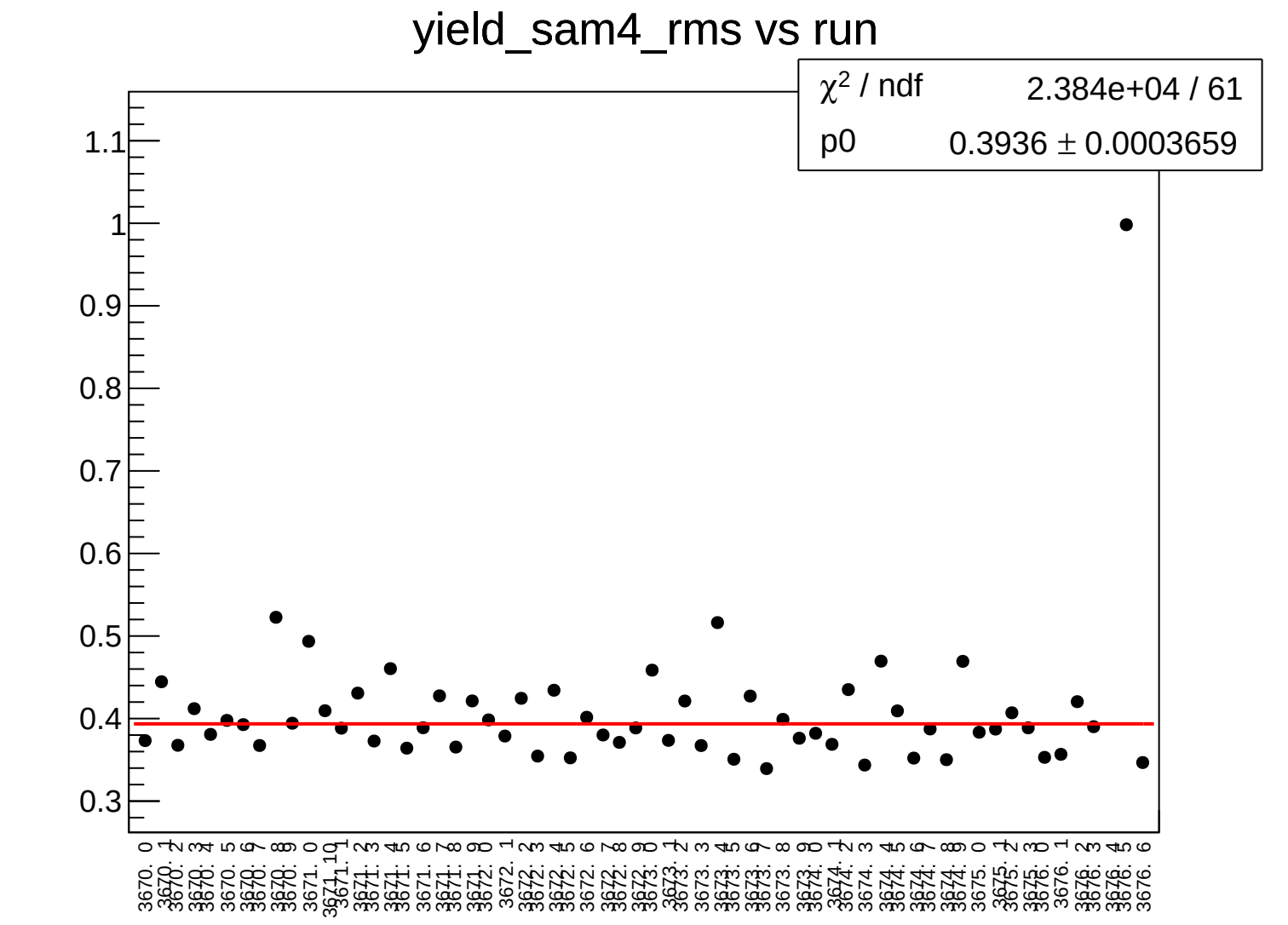

yield_sam2_rms vs run
χ² / ndf 1.21e+04 / 61
p0 0.1496 ± 0.0001384
0.21
0.2
0.19
0.18
0.17
0.16
0.15
0.14
0.13

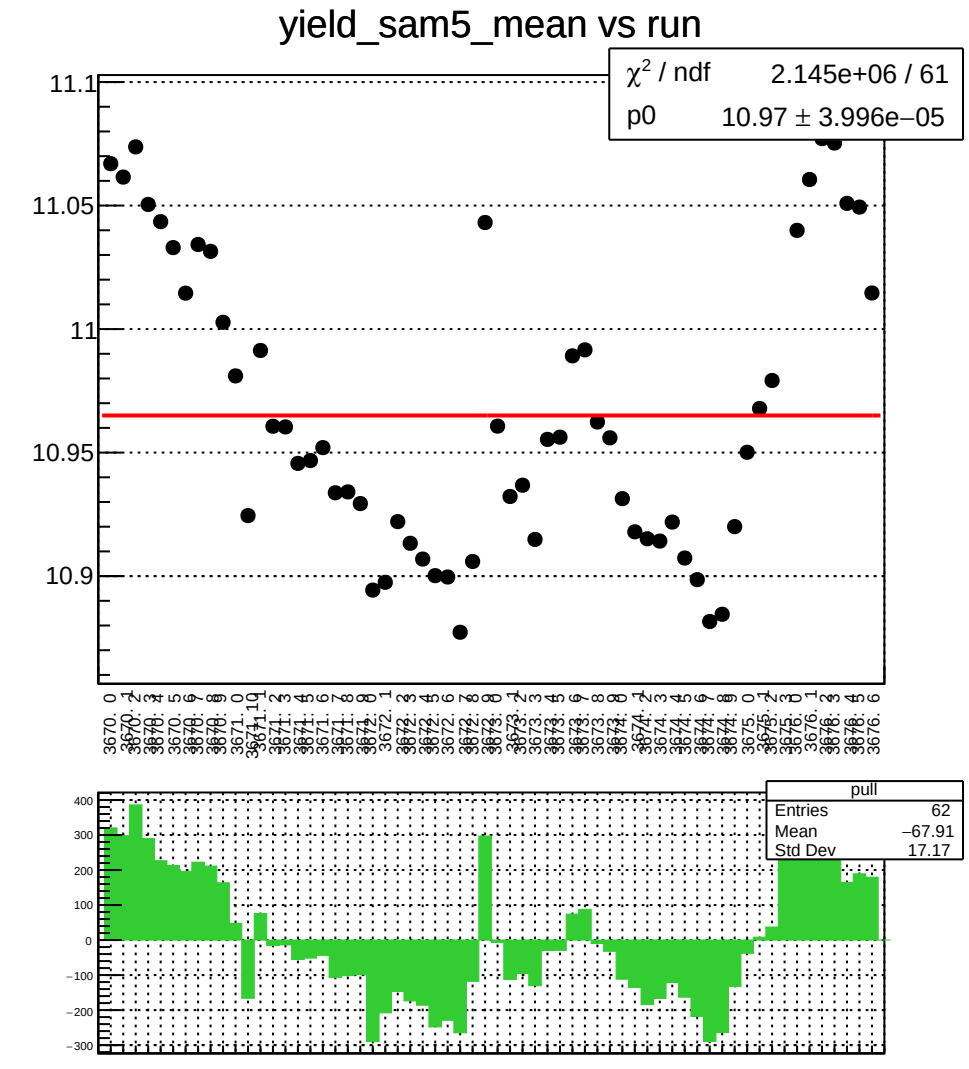

yield_sam3_mean vs run
χ² / ndf 1.024e+05 / 61
p0 100.3 ± 0.0009947
pull
Entries 62
Mean −234.6
Std Dev 276.5
pull1D
Entries 62
Mean 1.347
Std Dev 4.317

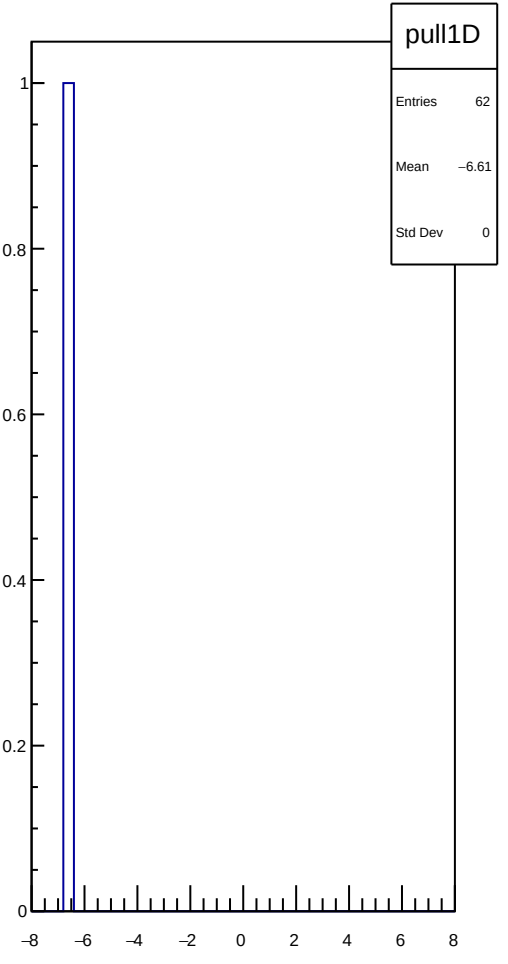

yield_sam3_rms vs run
χ² / ndf 2.287e+04 / 61
p0 0.7569 ± 0.0007034
1.6
1.4
1.2
1
0.8
0.6

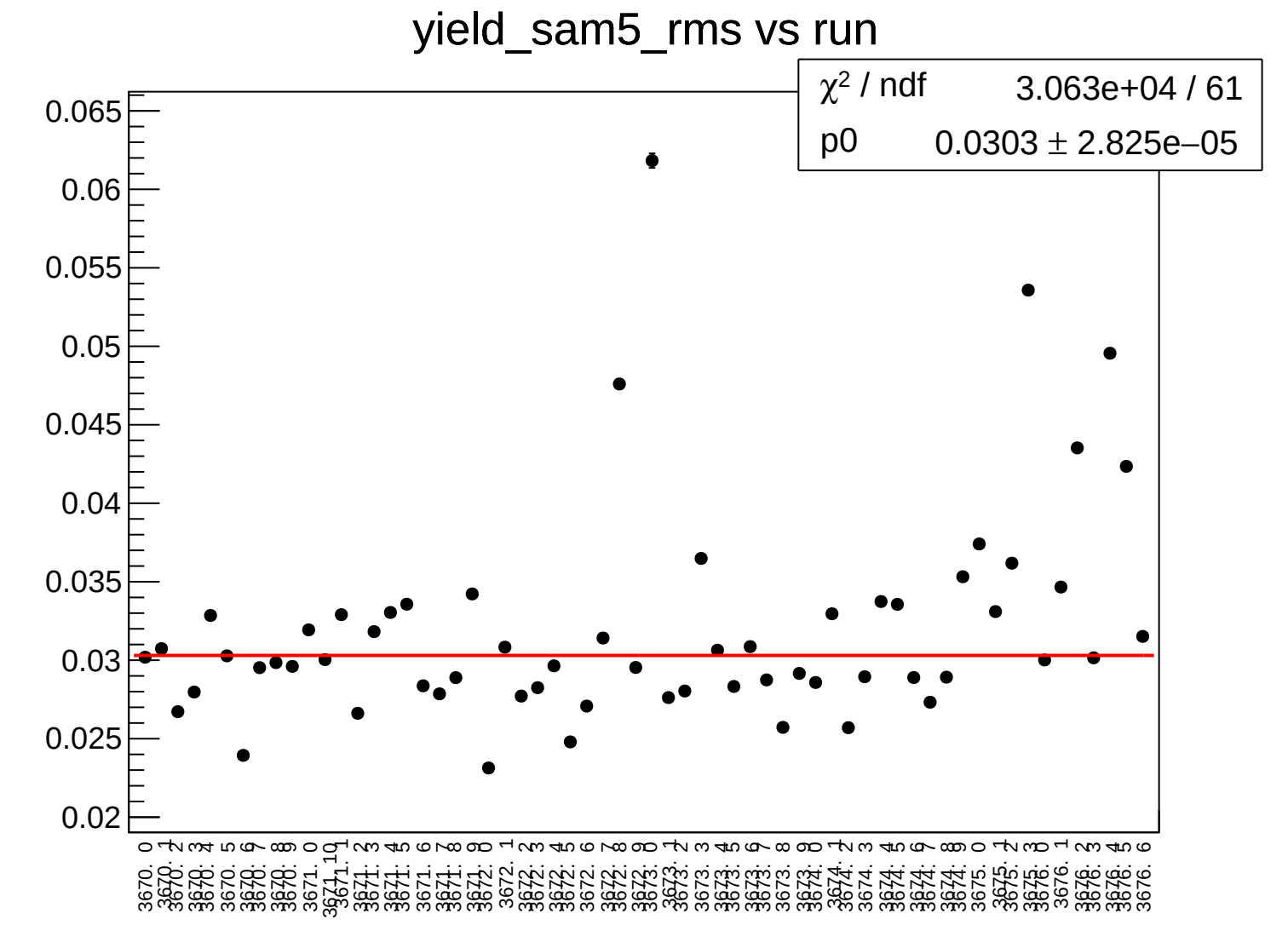

yield_sam4_mean vs run
χ² / ndf 3.83e+05 / 61
p0 60.65 ± 0.0005175
pull
Entries 62
Mean −3574
Std Dev 3624

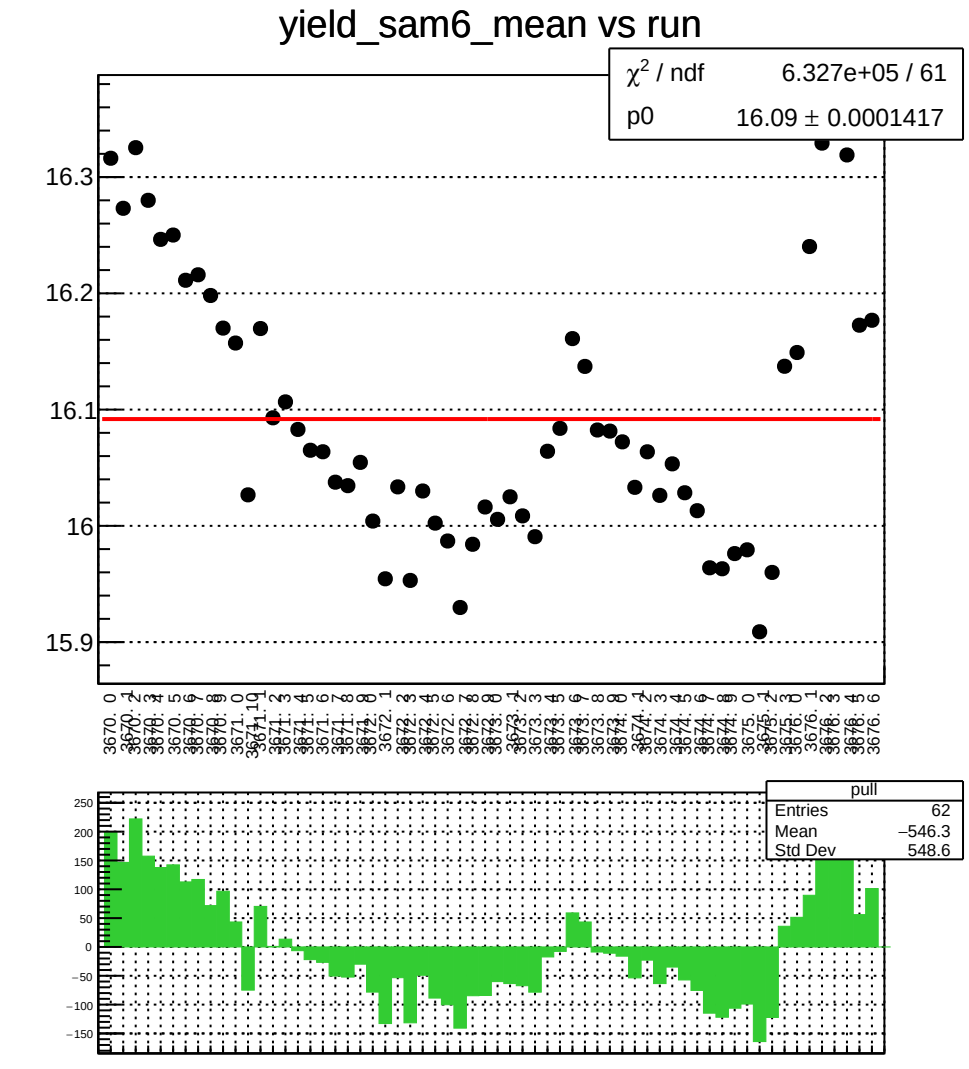

pull1D
Entries 62
Mean 4.131
Std Dev 2.573

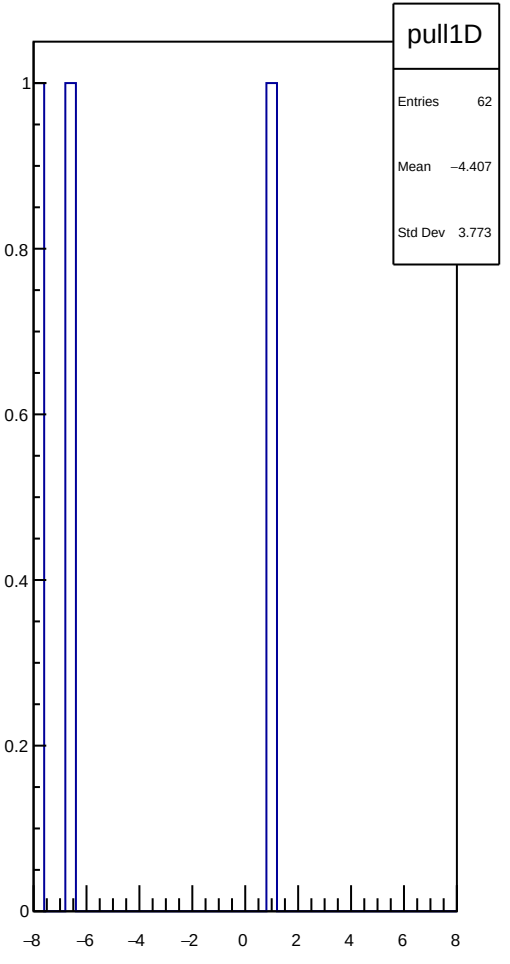

yield_sam4_rms vs run
χ² / ndf 2.384e+04 / 61
p0 0.3936 ± 0.0003659
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

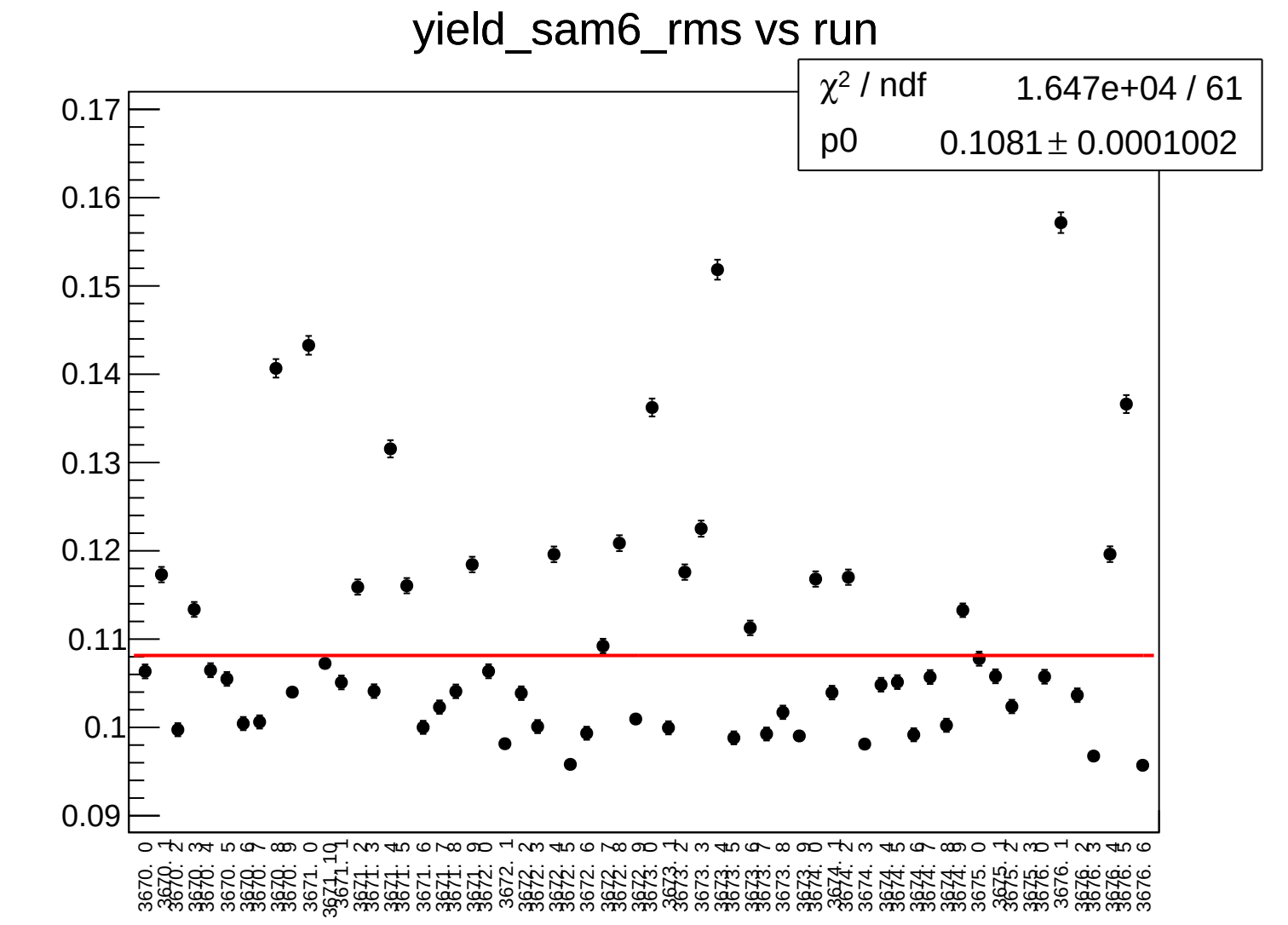

yield_sam5_mean vs run
χ² / ndf 2.145e+06 / 61
p0 10.97 ± 3.996e−05
11.1
11.05
11
10.95
10.9
pull
Entries 62
Mean −67.91
Std Dev 17.17
400
300
200
100
0
−100
−200
−300

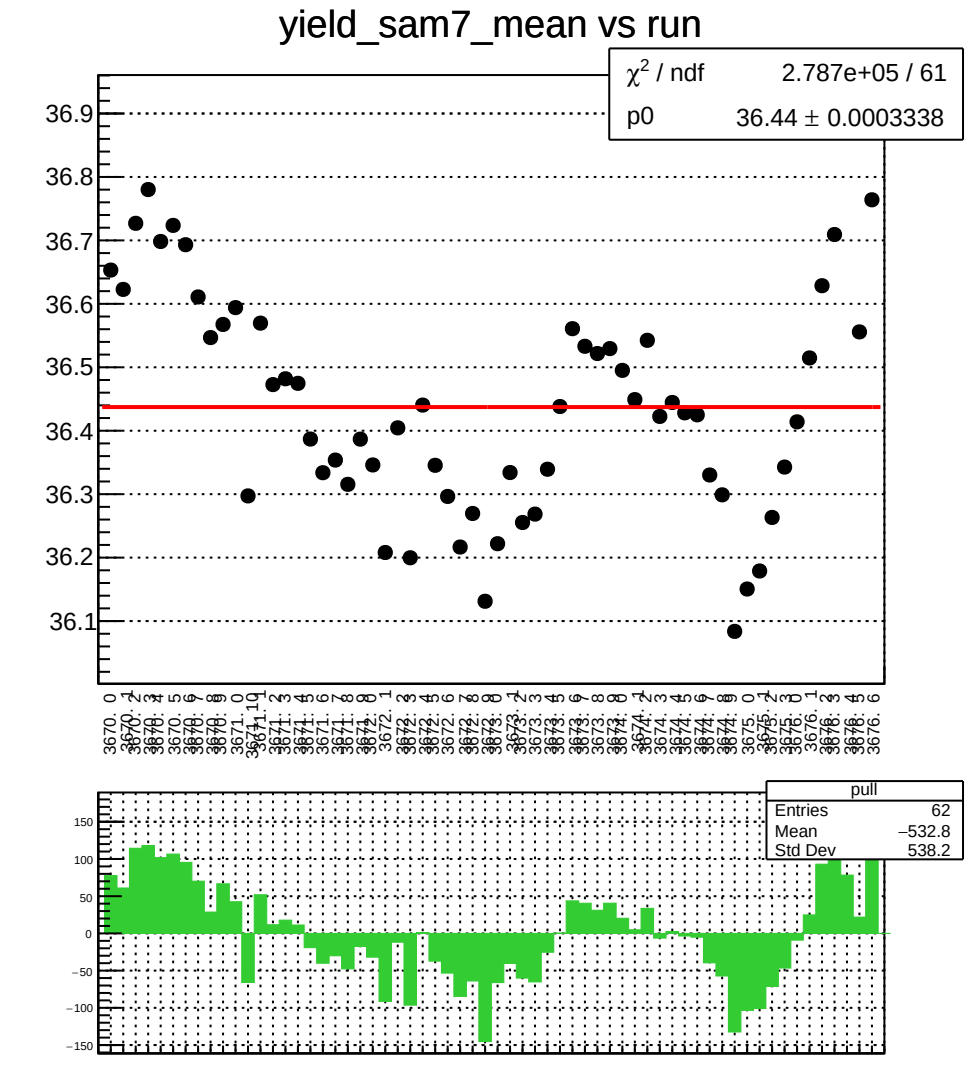

pull1D
Entries 62
Mean −6.61
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

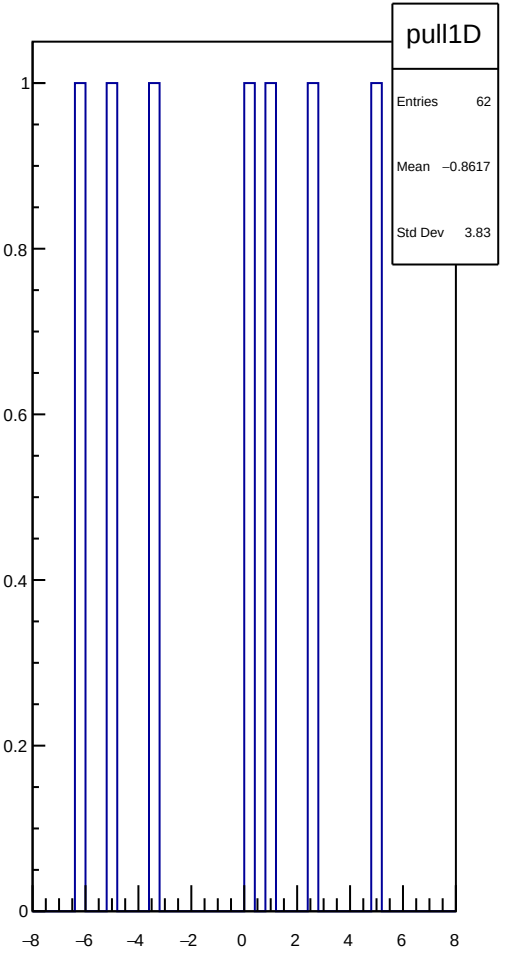

yield_sam5_rms vs run
χ² / ndf 3.063e+04 / 61
p0 0.0303 ± 2.825e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

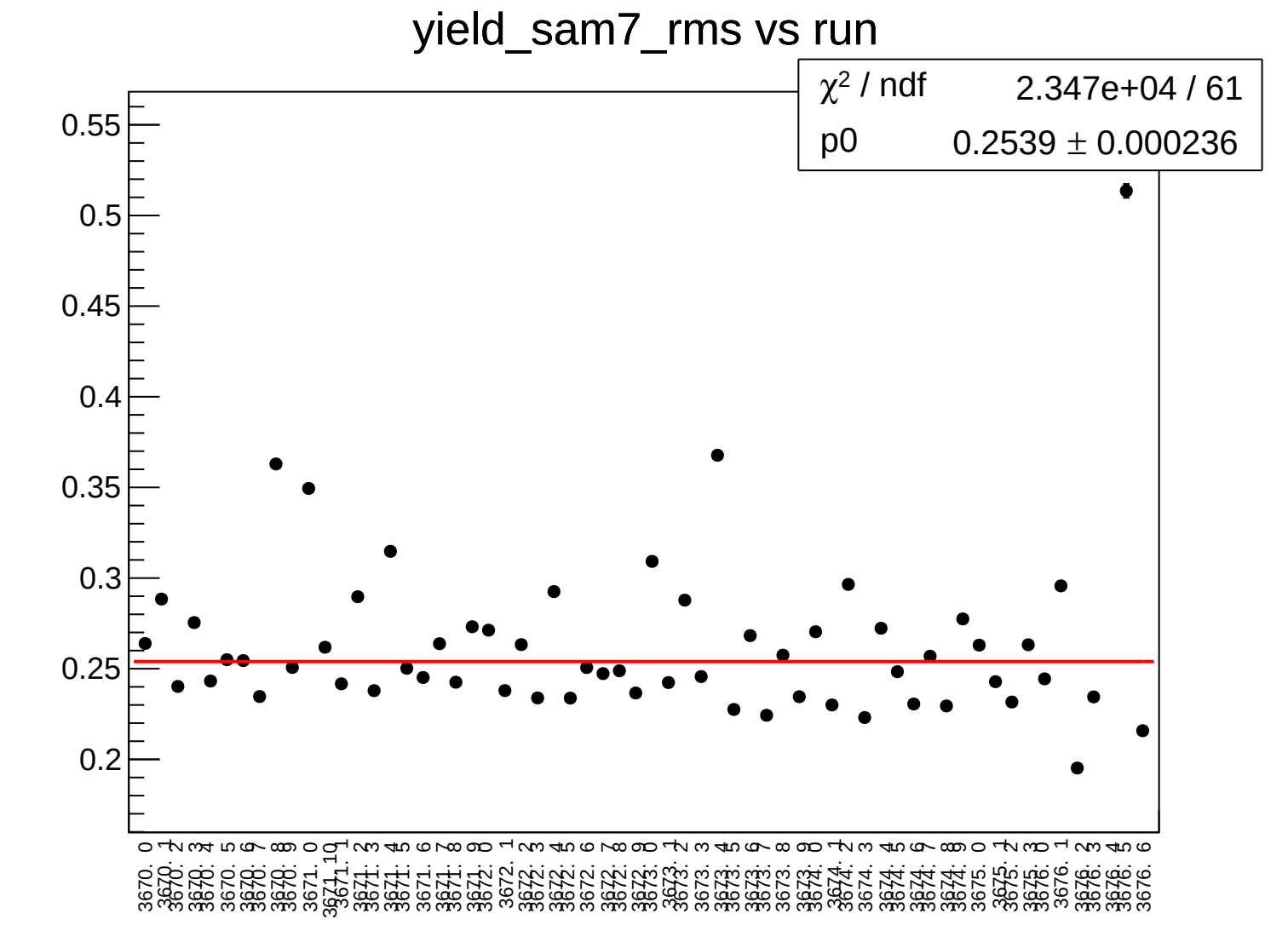

yield_sam6_mean vs run
χ² / ndf 6.327e+05 / 61
p0 16.09 ± 0.0001417
16.3
16.2
16.1
16
15.9
pull
Entries 62
Mean −546.3
Std Dev 548.6
250
200
150
100
50
0
−50
−100
−150

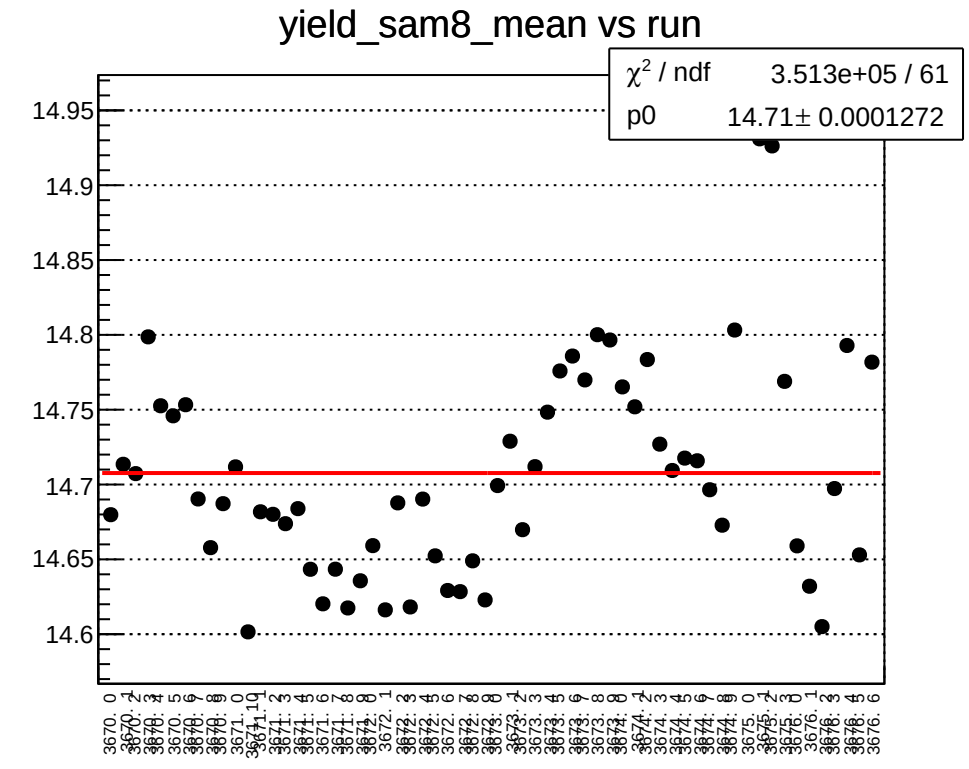

pull1D
Entries 62
Mean −4.407
Std Dev 3.773
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

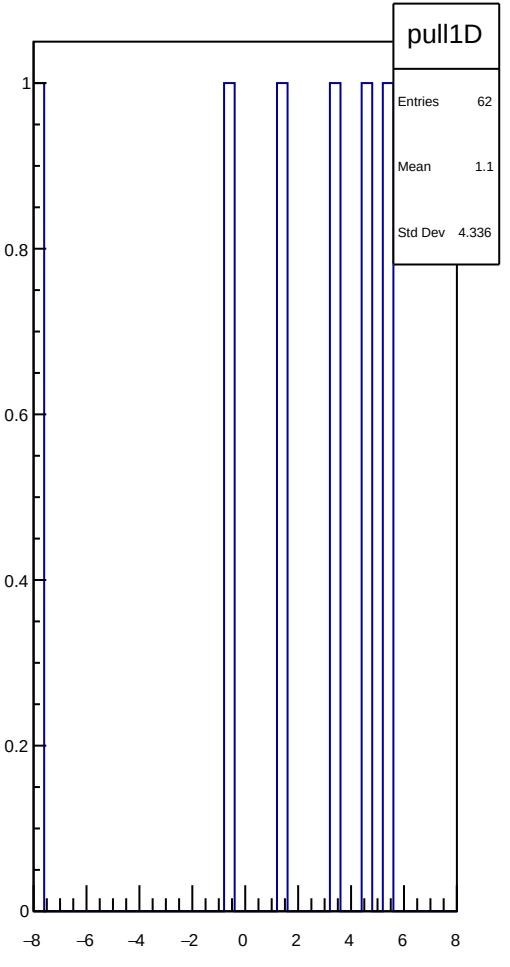

yield_sam6_rms vs run
χ² / ndf 1.647e+04 / 61
p0 0.1081 ± 0.0001002
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09

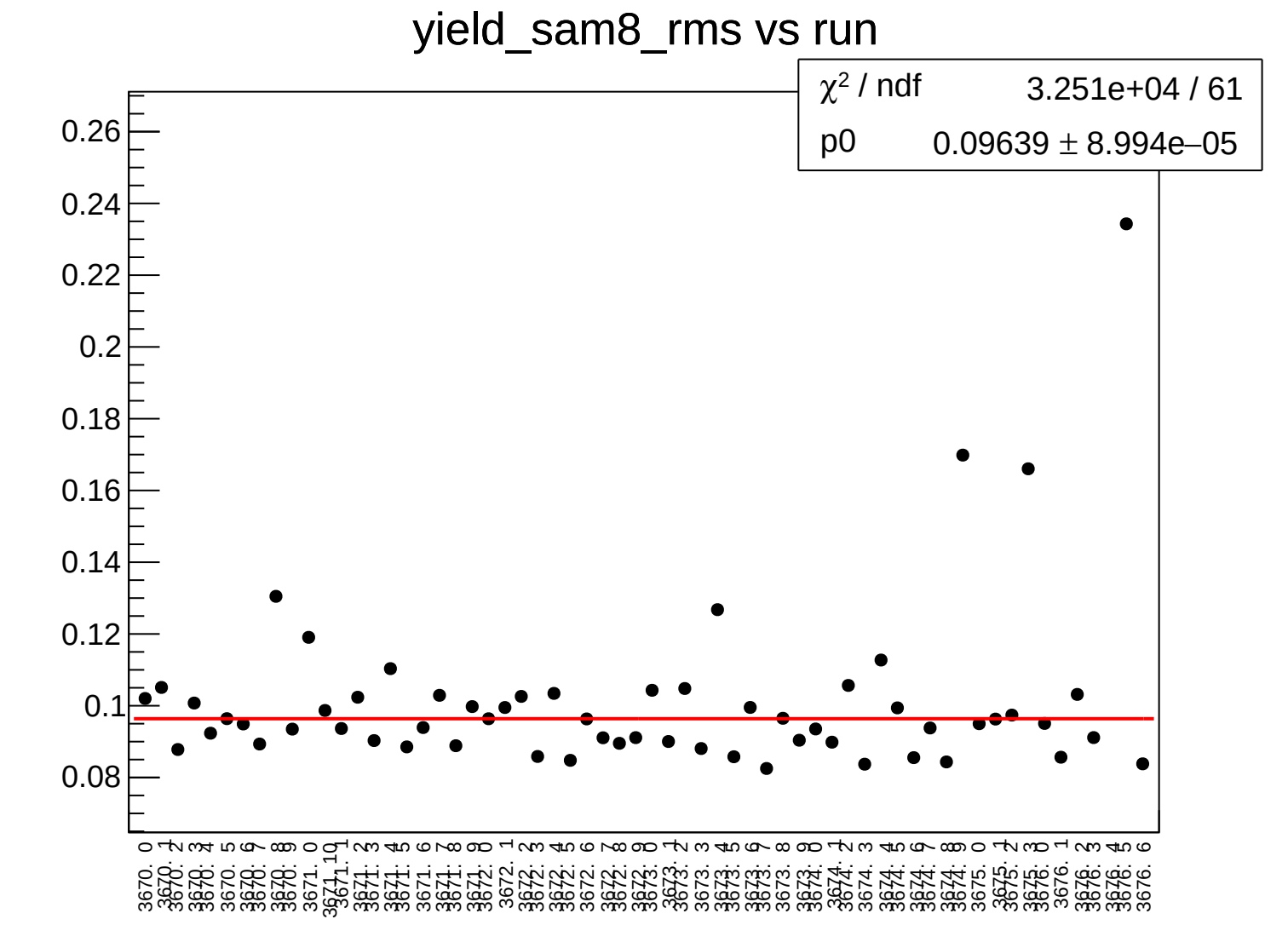

yield_sam7_mean vs run
χ² / ndf 2.787e+05 / 61
p0 36.44 ± 0.0003338
pull
Entries 62
Mean −532.8
Std Dev 538.2

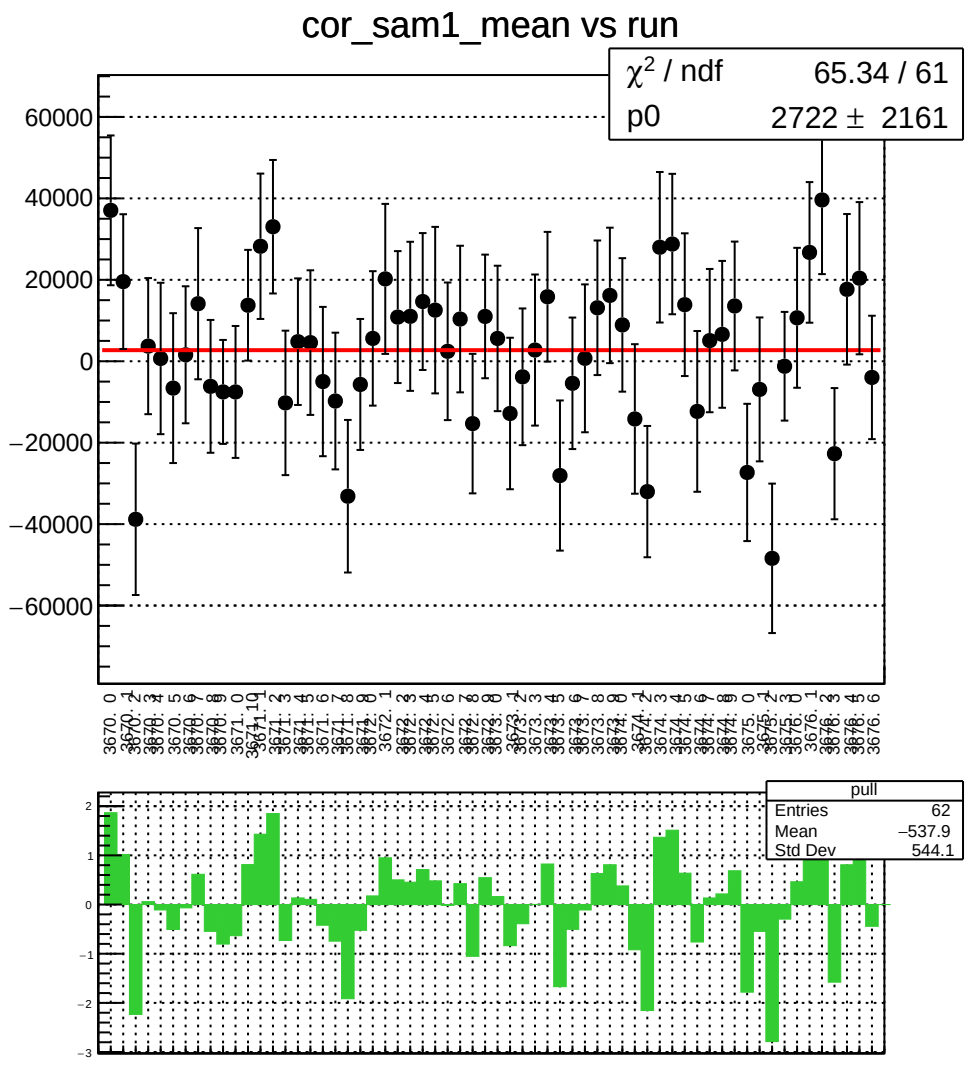

pull1D
Entries 62
Mean −0.8617
Std Dev 3.83

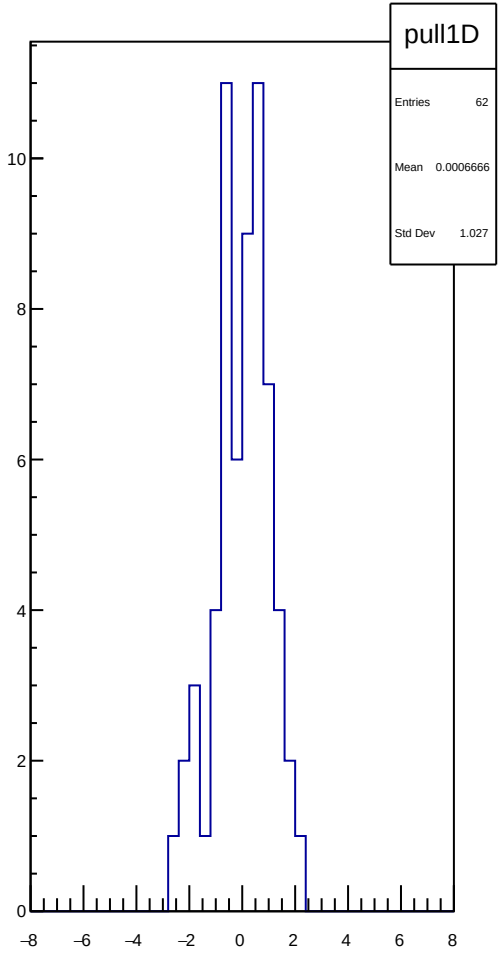

yield_sam7_rms vs run
χ² / ndf 2.347e+04 / 61
p0 0.2539 ± 0.000236
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 10
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

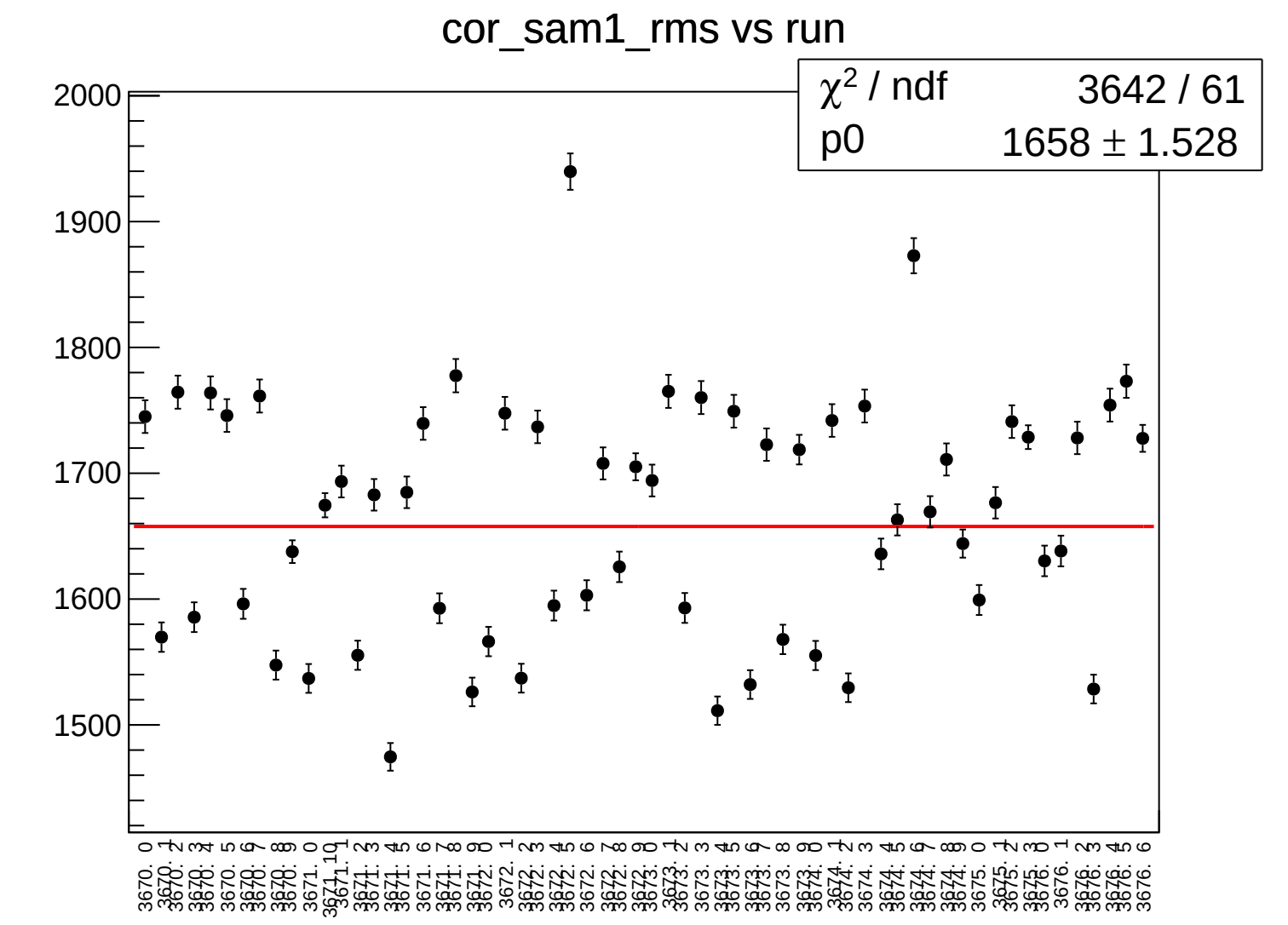

yield_sam8_mean vs run
χ² / ndf 3.513e+05 / 61
p0 14.71± 0.0001272
14.95
14.9
14.85
14.8
14.75
14.7
14.65
14.6
pull
Entries 62
Mean 402.4
Std Dev 366.6
200
150
100
50
0
−50
−100
−150

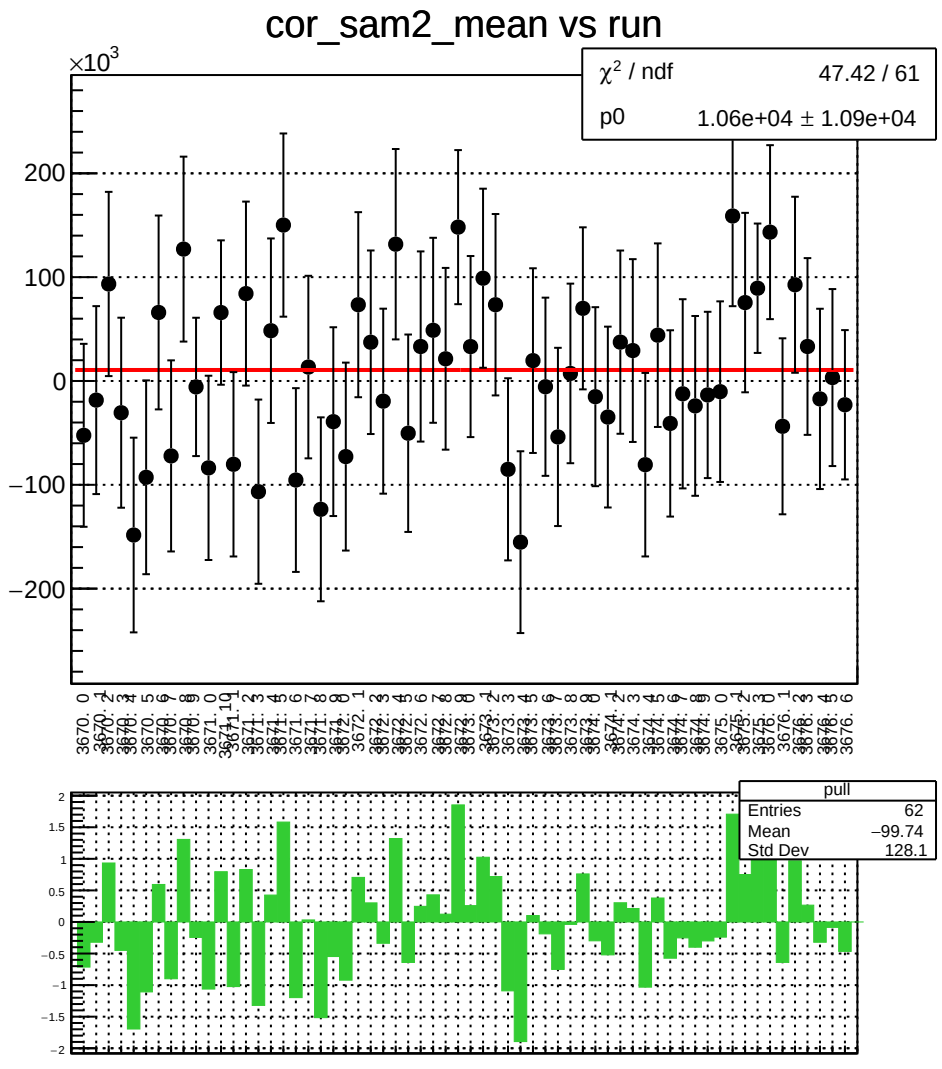

pull1D
Entries 62
Mean 1.1
Std Dev 4.336
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

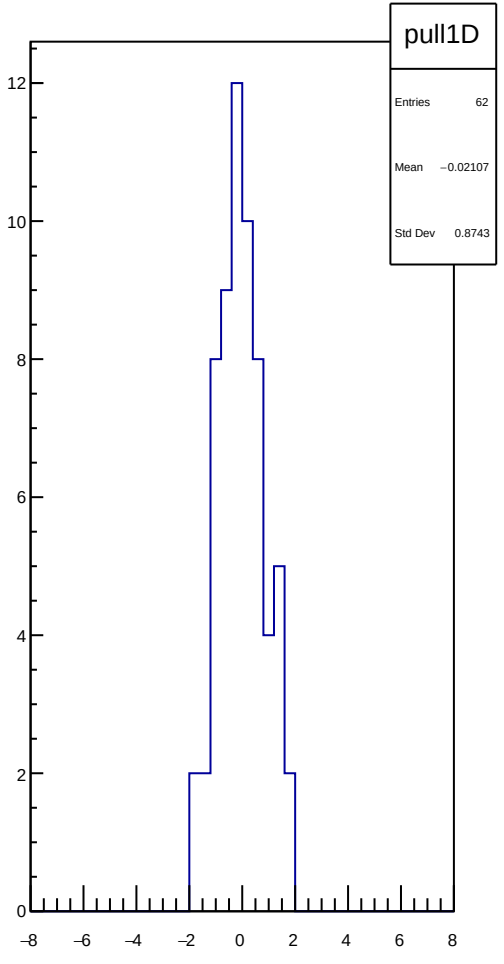

yield_sam8_rms vs run
χ² / ndf 3.251e+04 / 61
p0 0.09639 ± 8.994e–05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

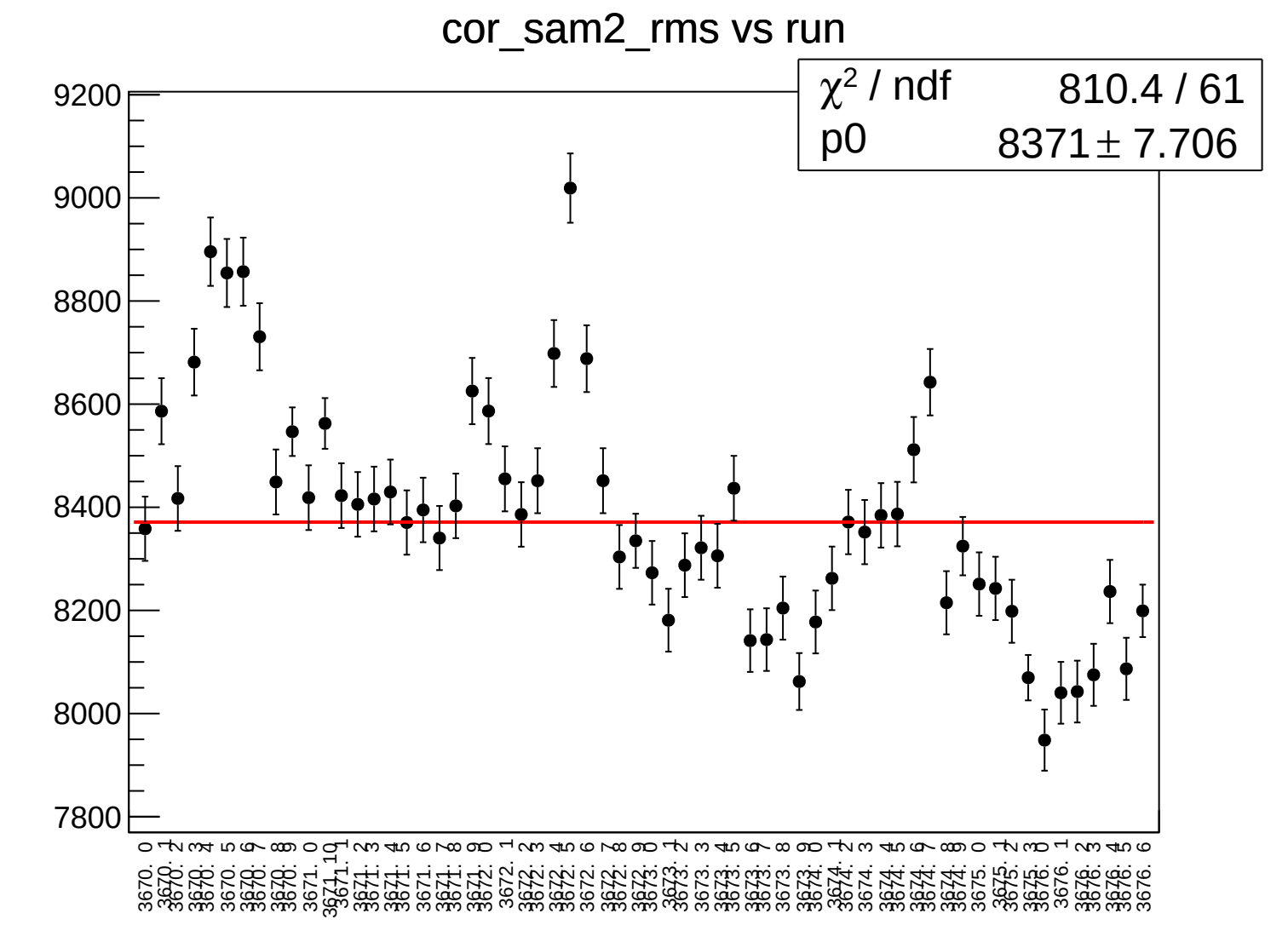

cor_sam1_mean vs run
χ² / ndf 65.34 / 61
p0 2722 ± 2161
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 62
Mean −537.9
Std Dev 544.1
2
1
0
−1
−2
−3

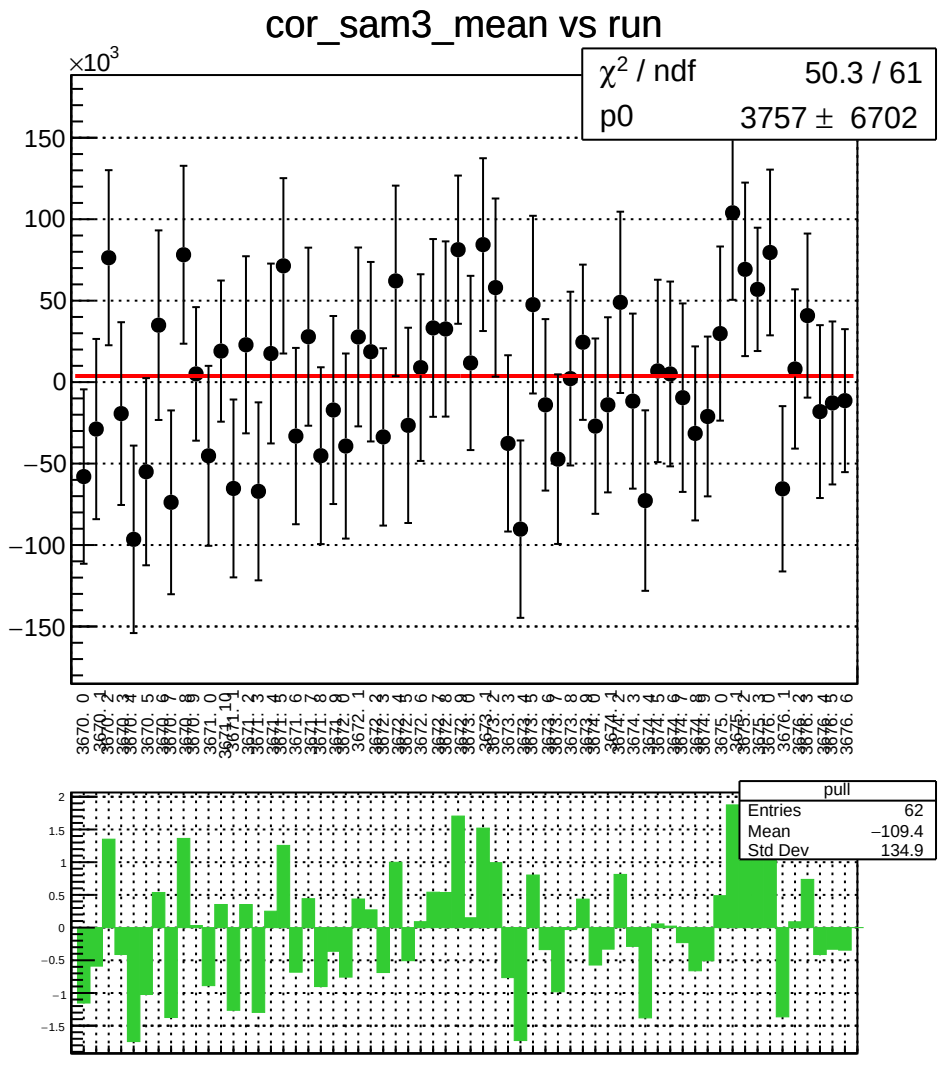

pull1D
Entries 62
Mean 0.0006666
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

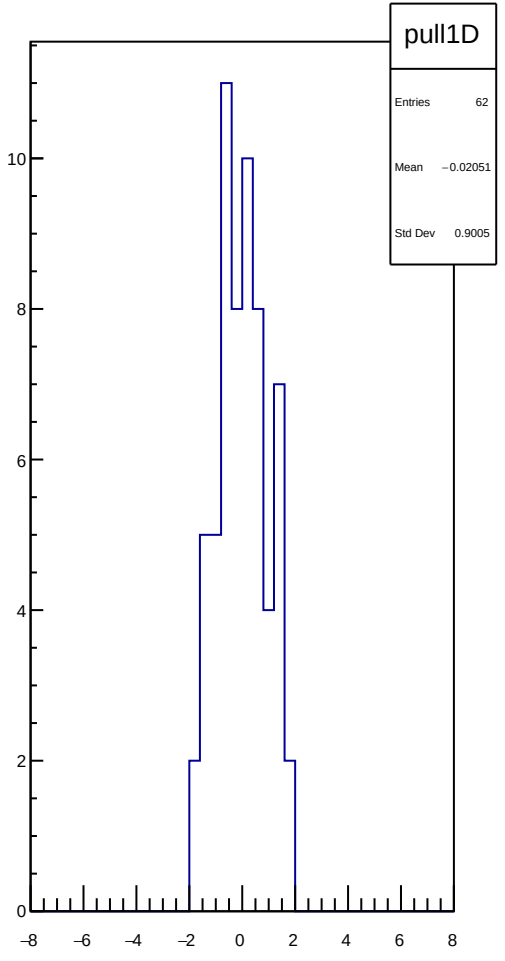

cor_sam1_rms vs run
χ^2 / ndf 3642 / 61
p0 1658 ± 1.528
2000
1900
1800
1700
1600
1500

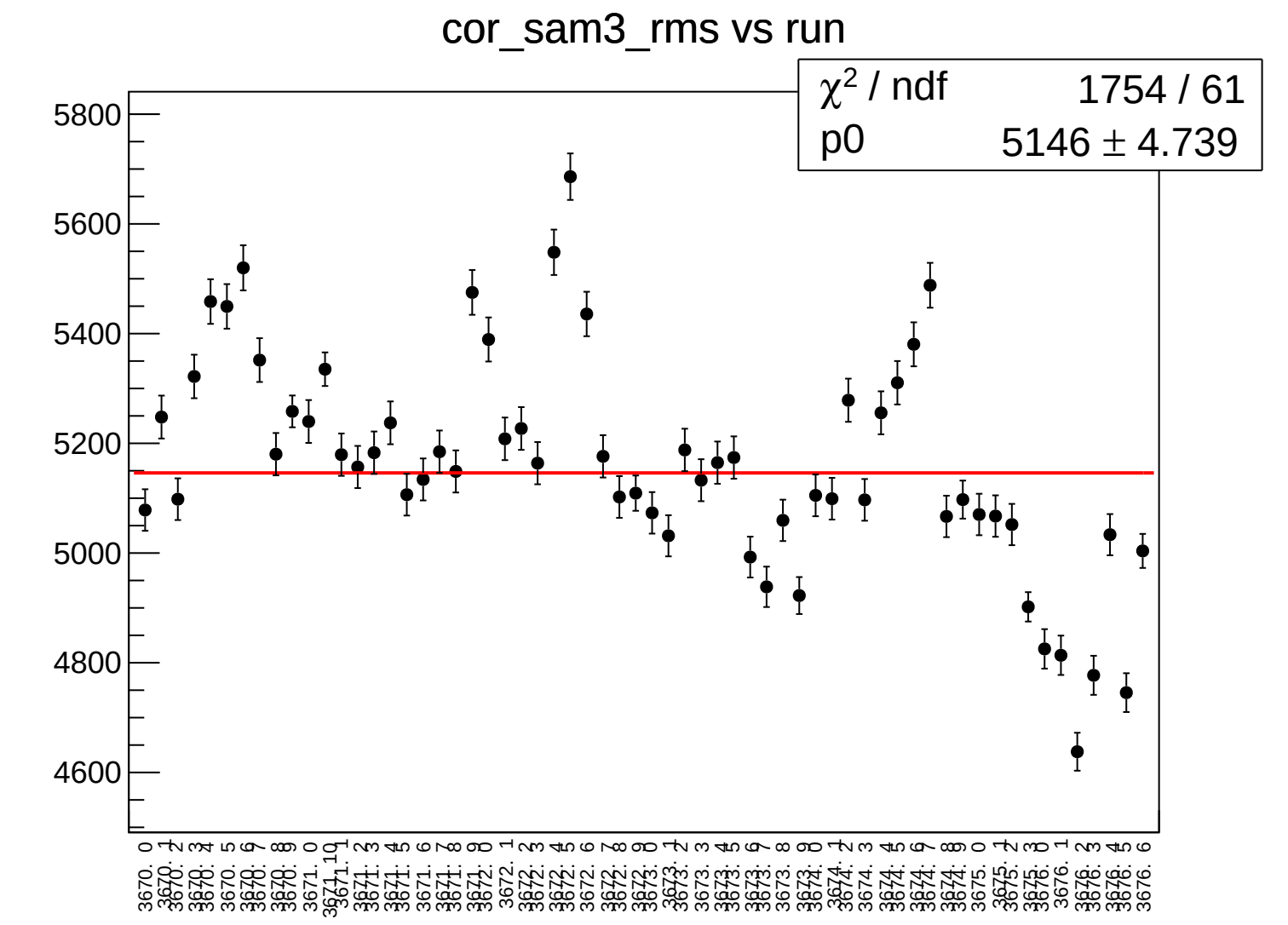

cor_sam2_mean vs run
×10^3
χ² / ndf 47.42 / 61
p0 1.06e+04 ± 1.09e+04
200
100
0
−100
−200
pull
Entries 62
Mean −99.74
Std Dev 128.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

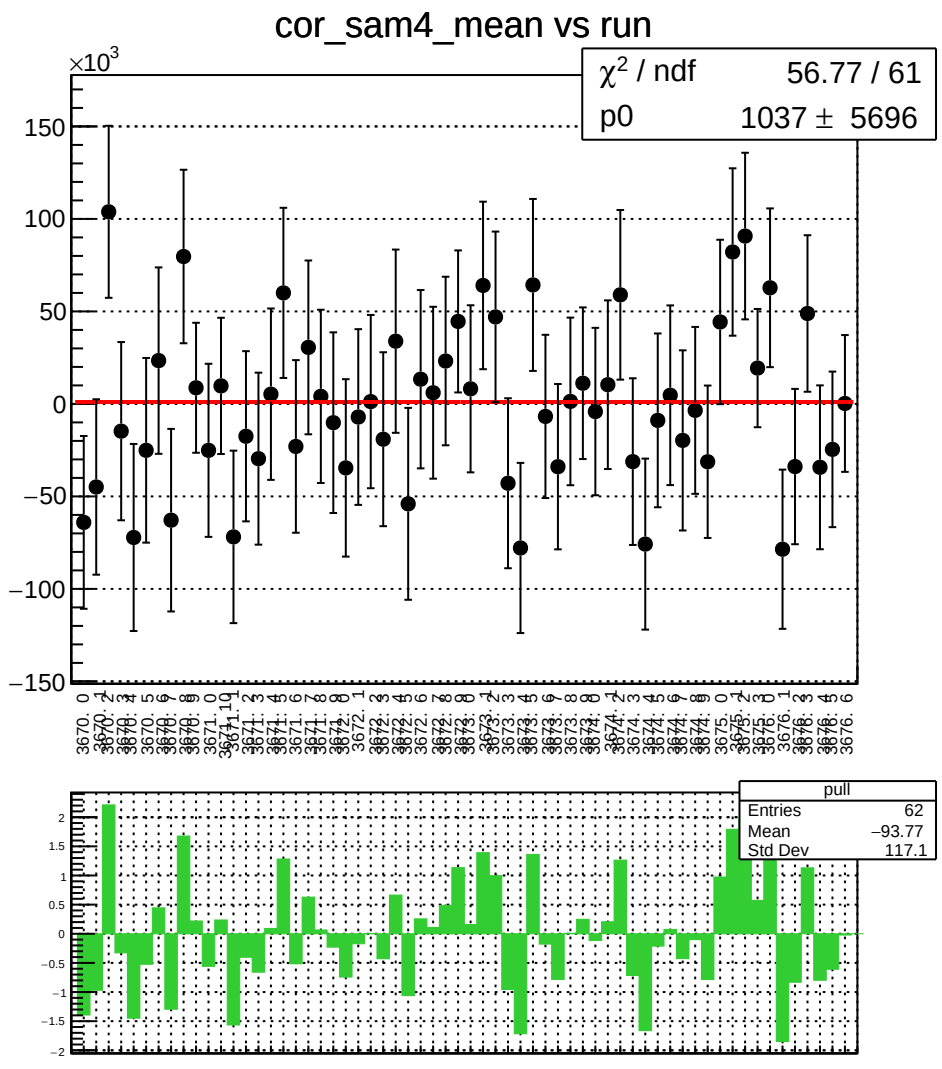

pull1D
Entries 62
Mean −0.02107
Std Dev 0.8743
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

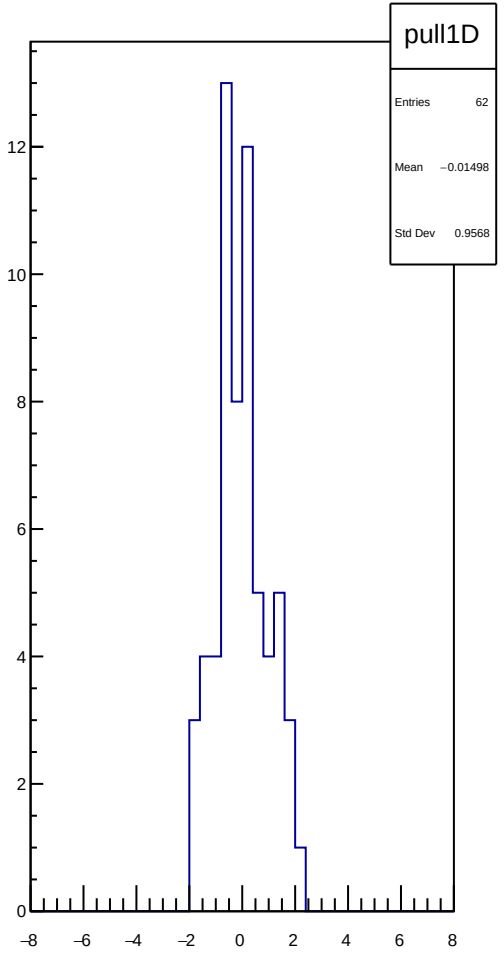

cor_sam2_rms vs run
χ² / ndf 810.4 / 61
p0 8371 ± 7.706
9200
9000
8800
8600
8400
8200
8000
7800

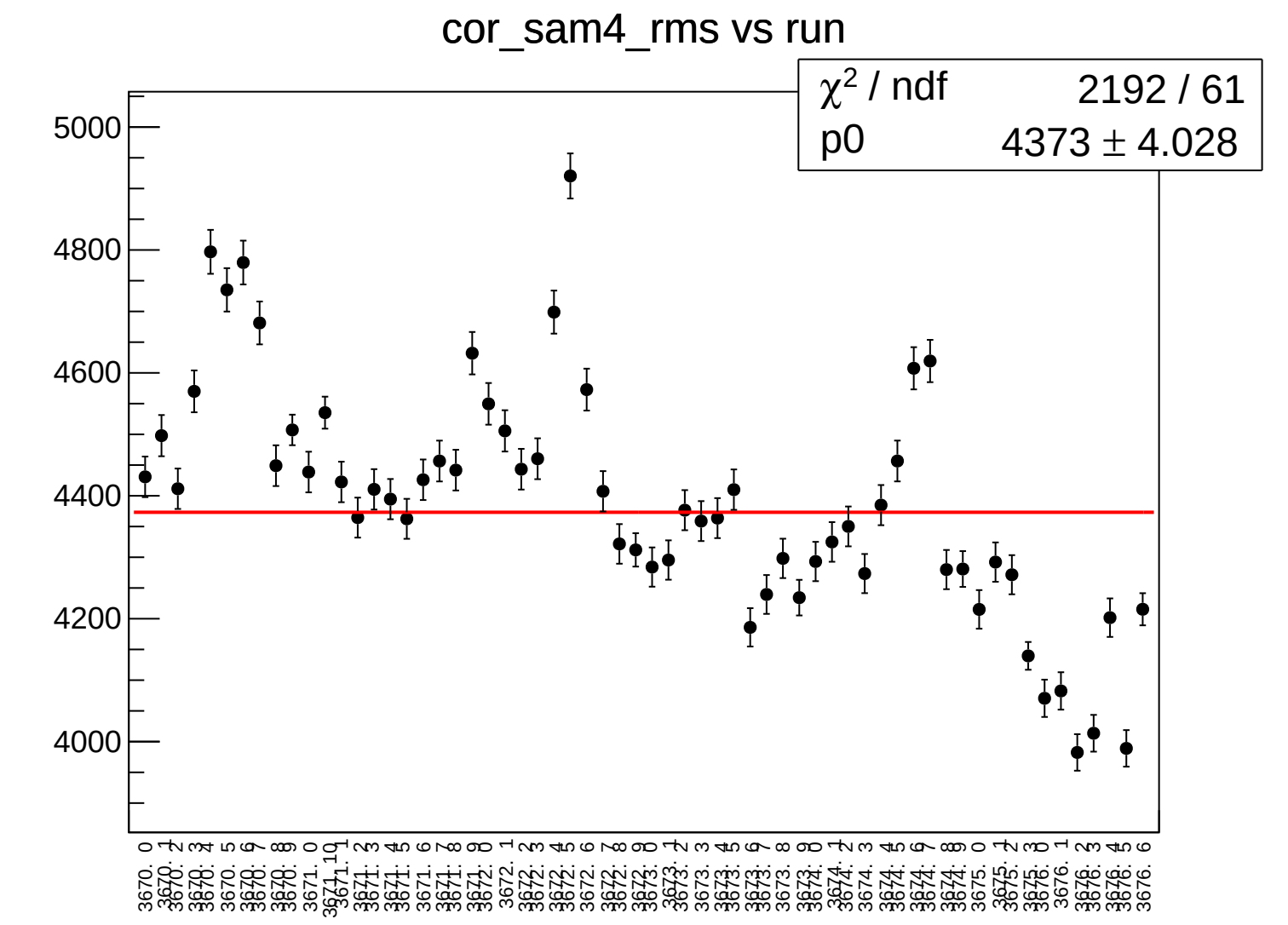

cor_sam3_mean vs run
×10^3
χ² / ndf 50.3 / 61
p0 3757 ± 6702
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −109.4
Std Dev 134.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

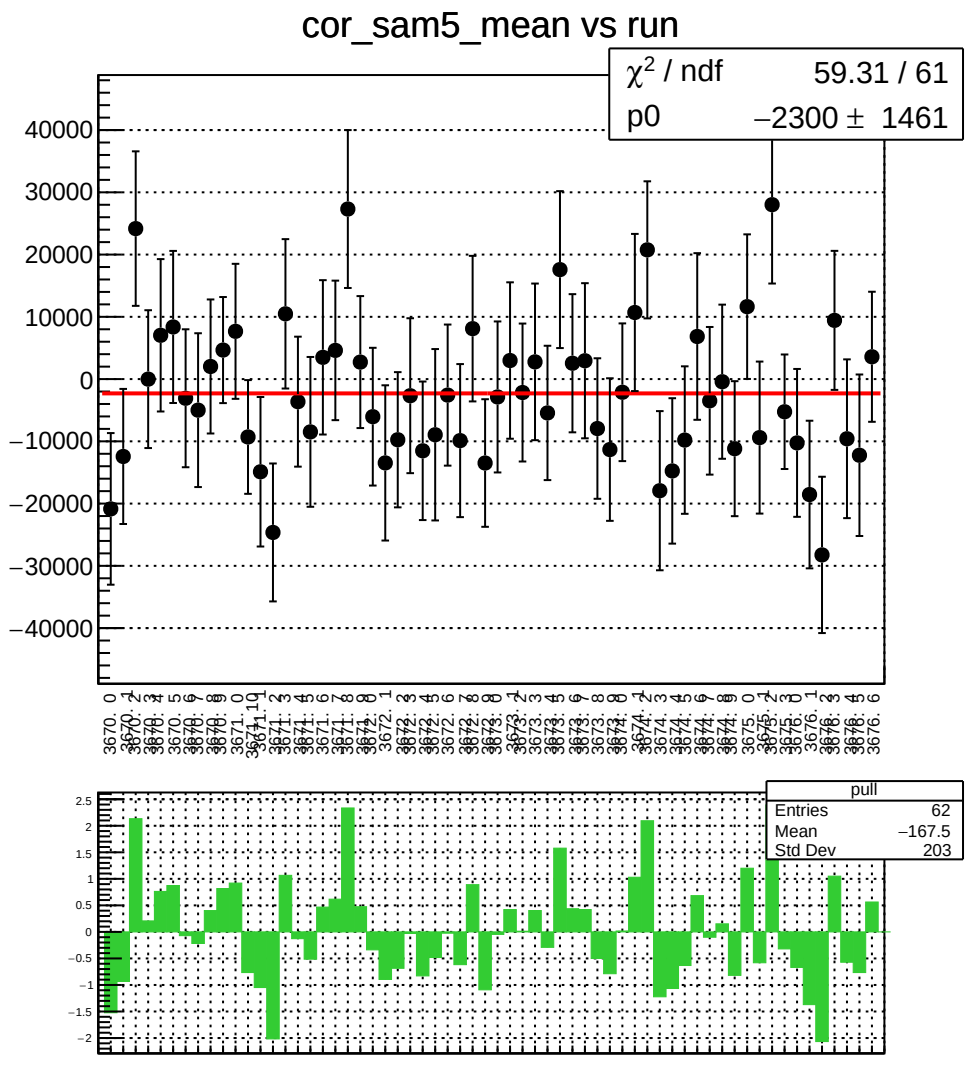

pull1D
Entries 62
Mean −0.02051
Std Dev 0.9005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

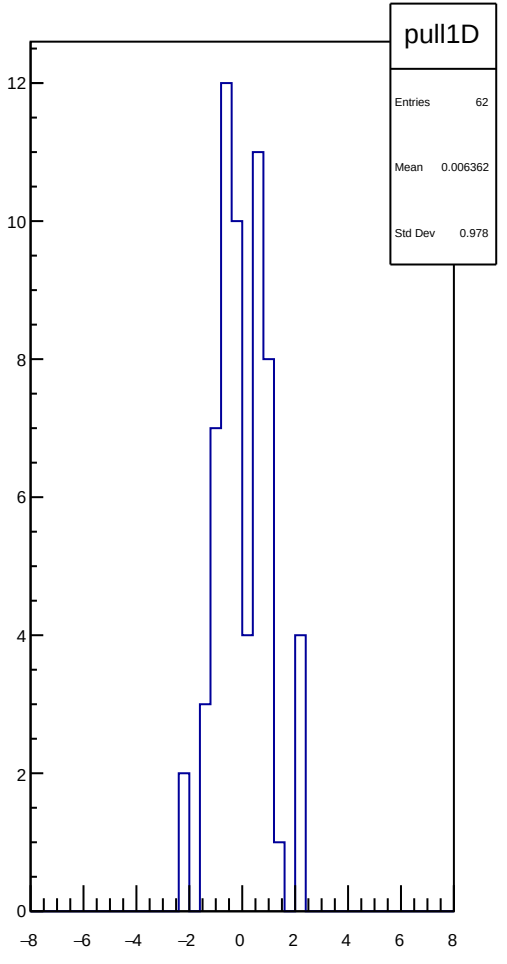

cor_sam3_rms vs run
χ² / ndf 1754 / 61
p0 5146 ± 4.739
5800
5600
5400
5200
5000
4800
4600
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

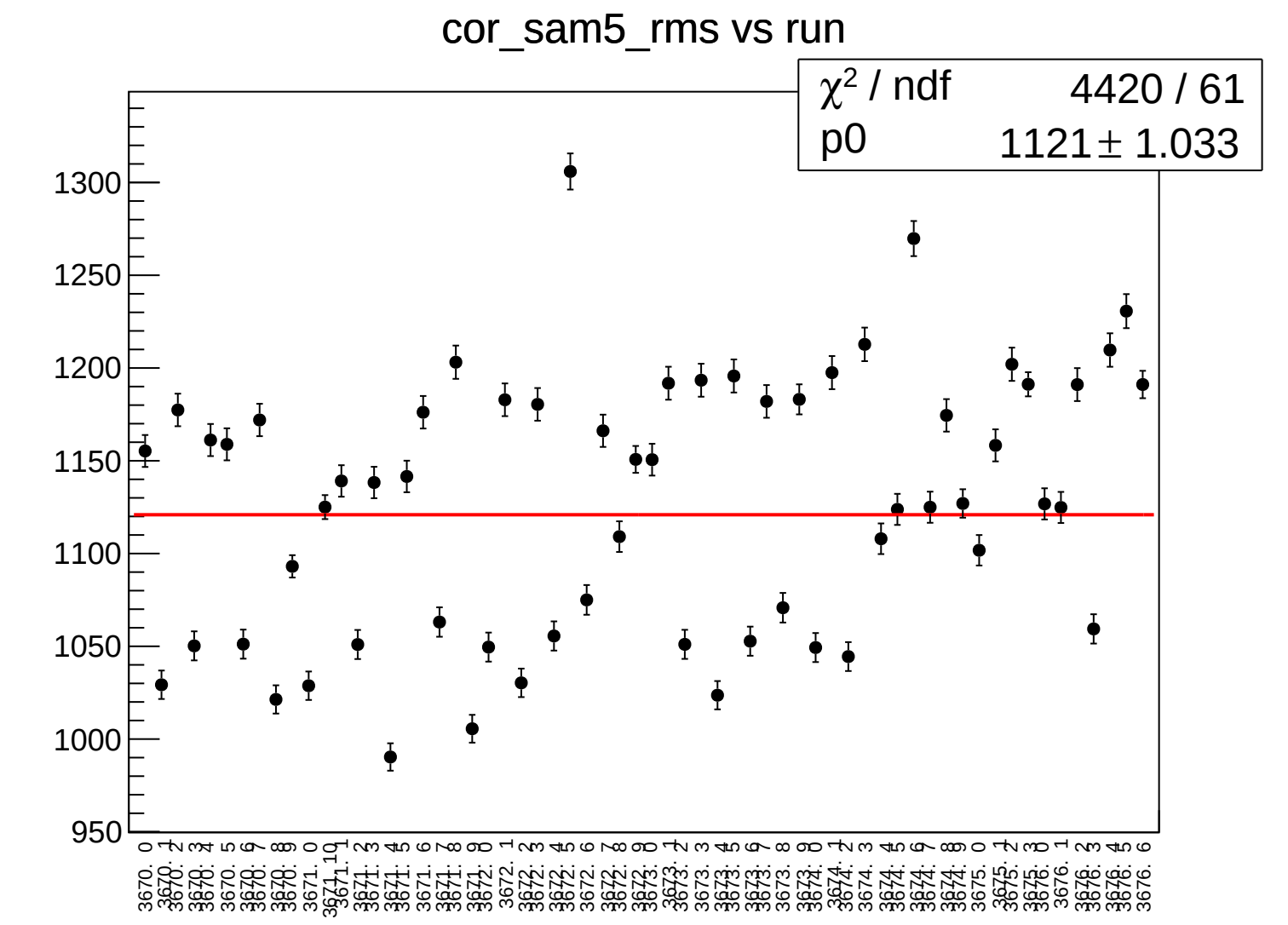

cor_sam4_mean vs run
×10^3
χ^2 / ndf 56.77 / 61
p0 1037 ± 5696
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −93.77
Std Dev 117.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

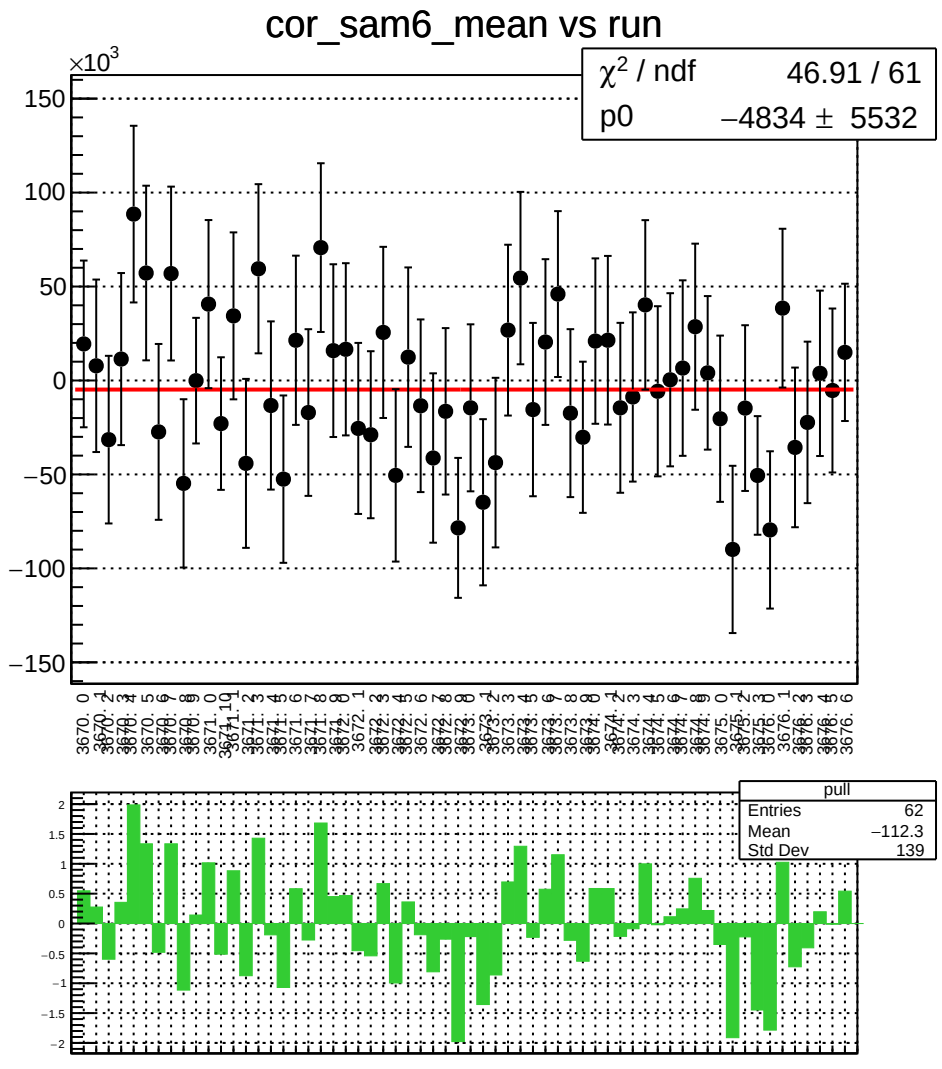

pull1D
Entries 62
Mean −0.01498
Std Dev 0.9568
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

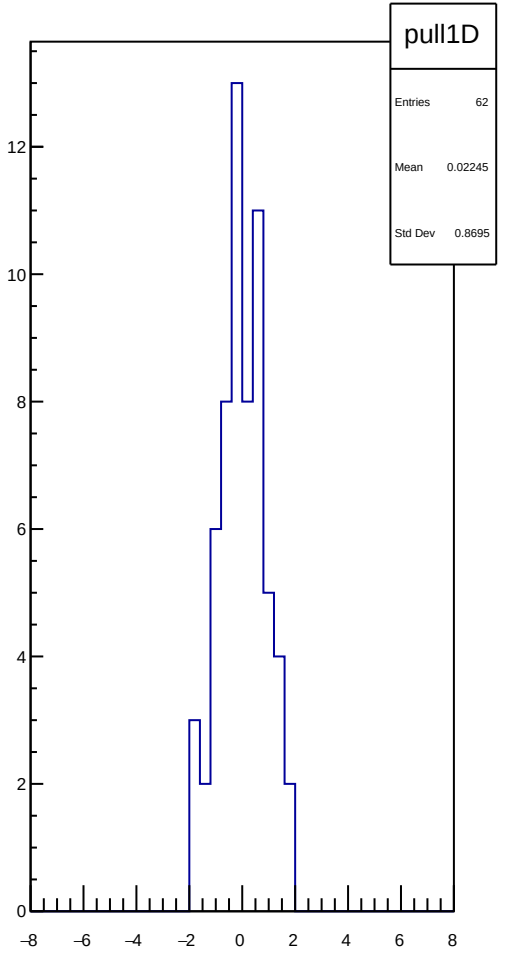

cor_sam4_rms vs run
χ² / ndf 2192 / 61
p0 4373 ± 4.028
5000
4800
4600
4400
4200
4000
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

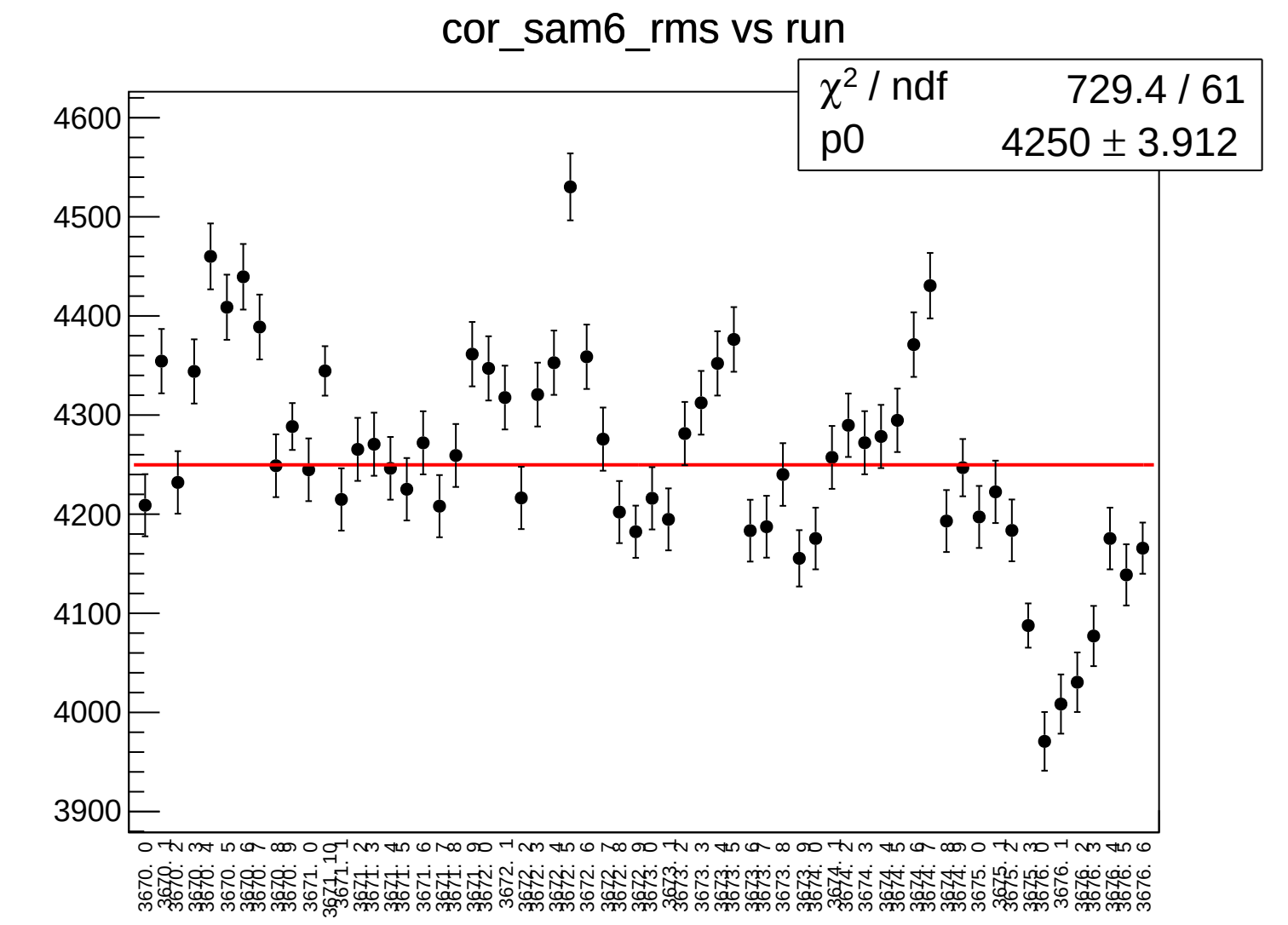

cor_sam5_mean vs run
χ² / ndf 59.31 / 61
p0 −2300 ± 1461
pull
Entries 62
Mean −167.5
Std Dev 203

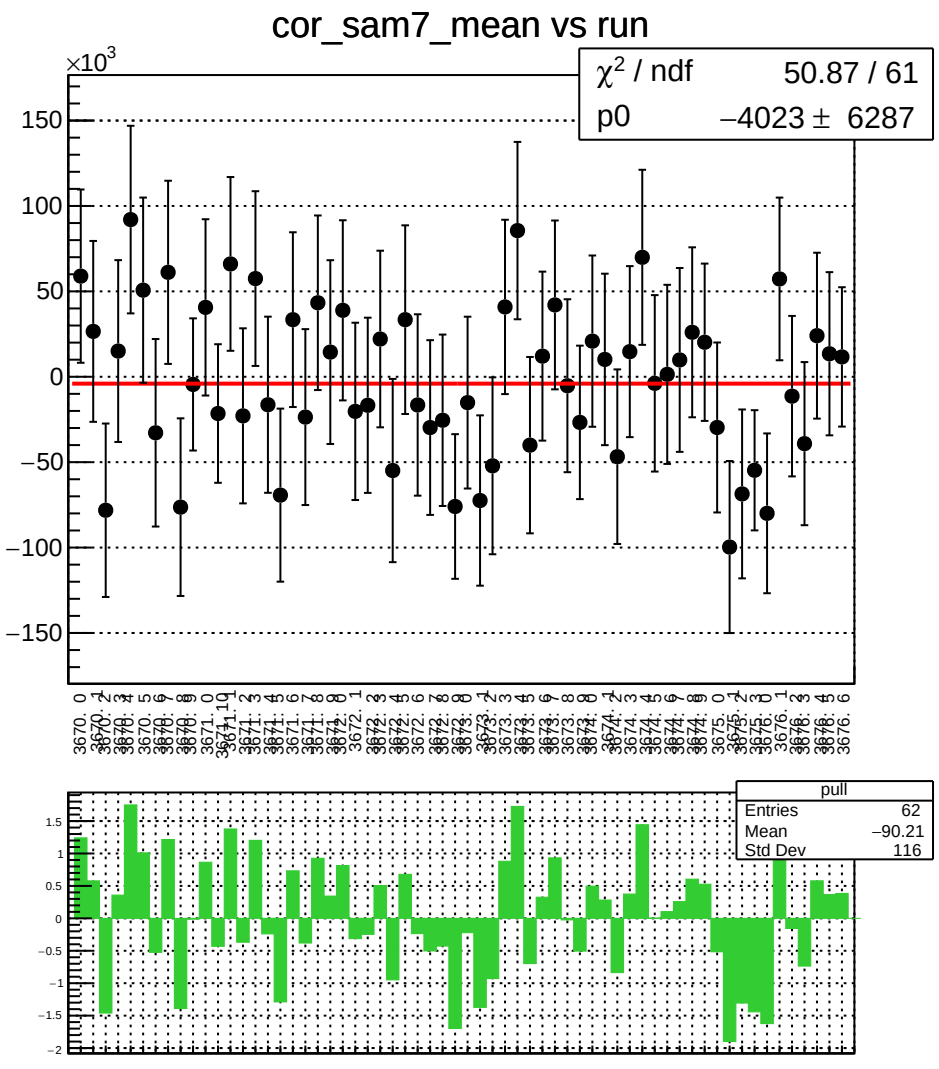

pull1D
Entries 62
Mean 0.006362
Std Dev 0.978

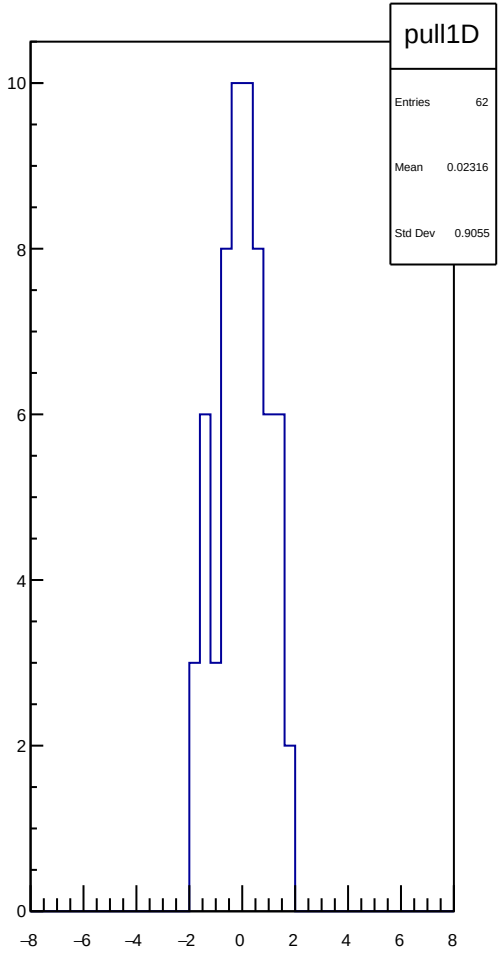

cor_sam5_rms vs run
χ² / ndf 4420 / 61
p0 1121 ± 1.033
1300
1250
1200
1150
1100
1050
1000
950

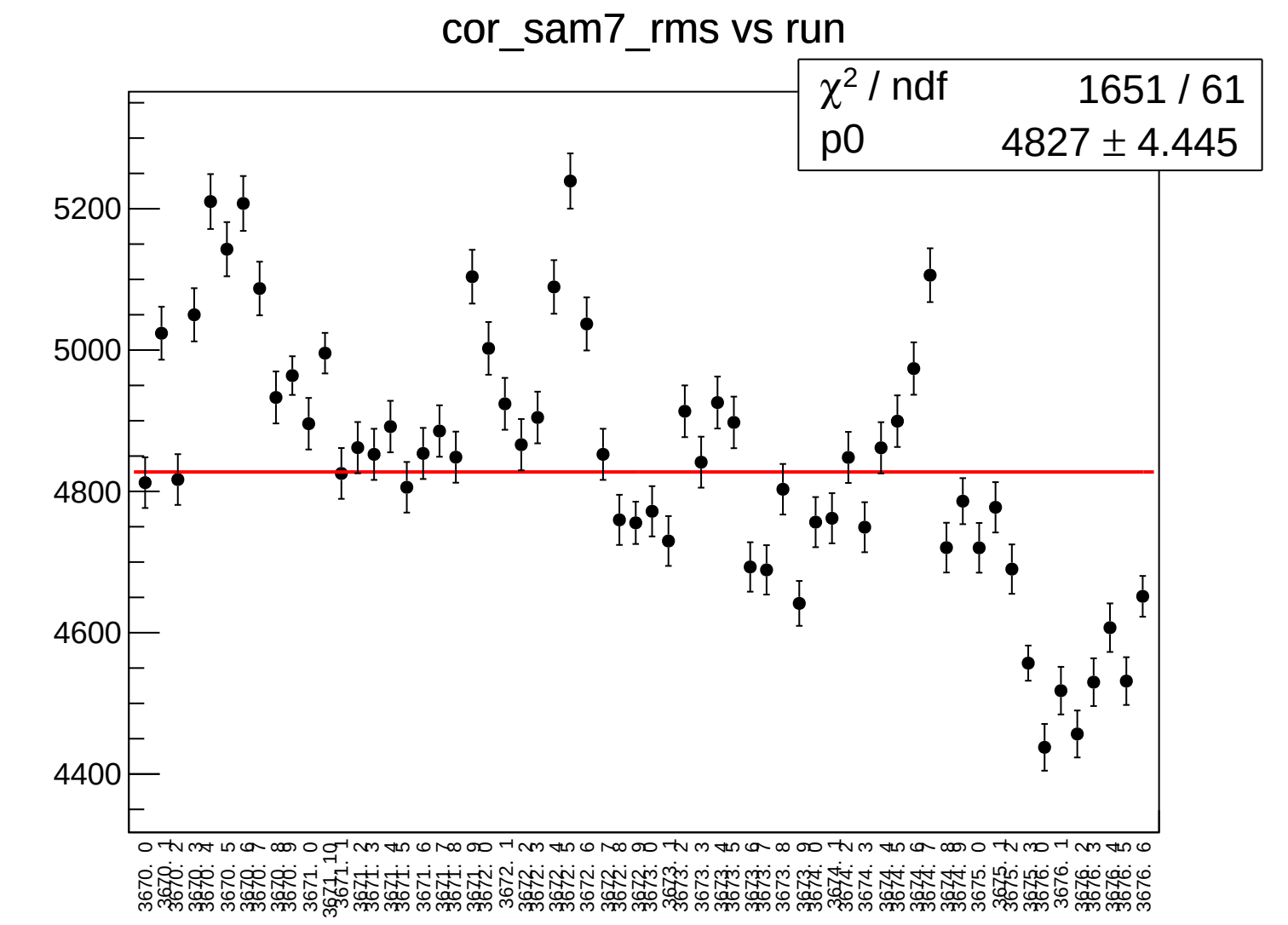

cor_sam6_mean vs run
×10^3
χ² / ndf 46.91 / 61
p0 −4834 ± 5532
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −112.3
Std Dev 139
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

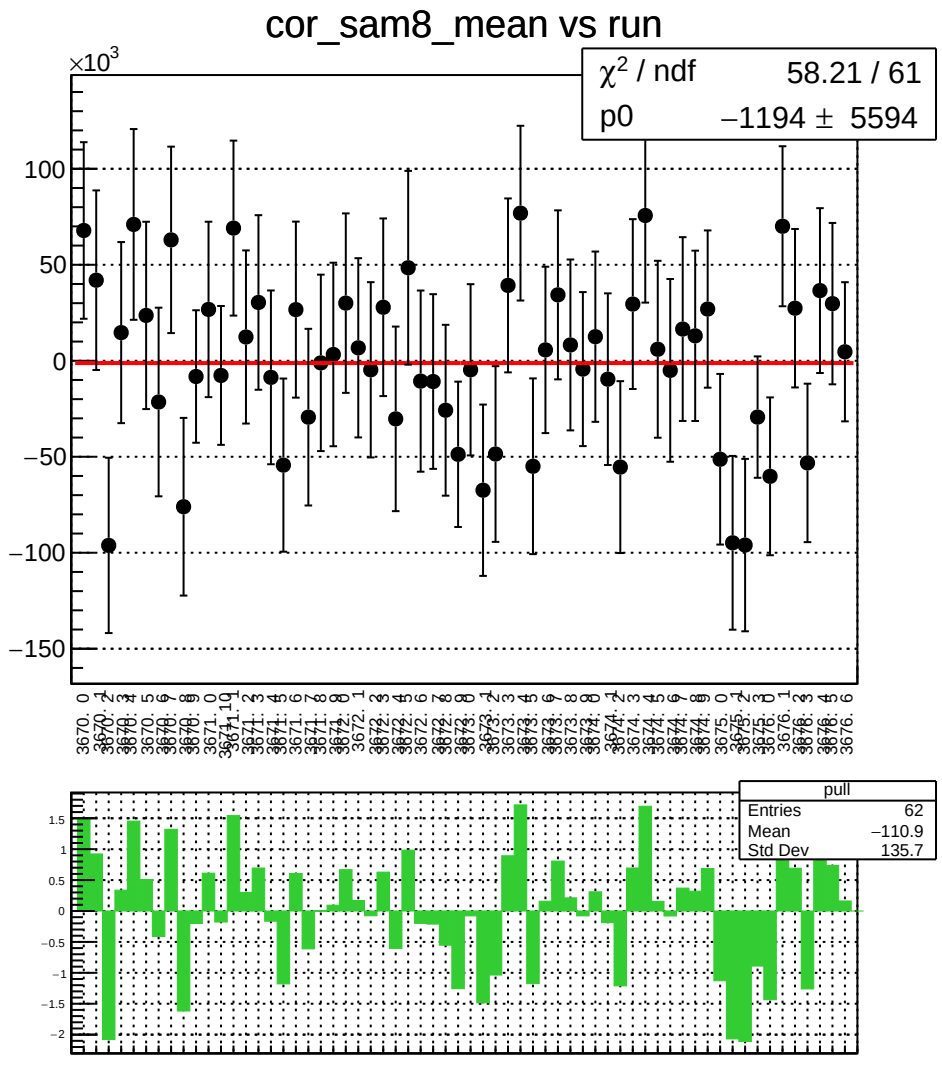

pull1D
Entries 62
Mean 0.02245
Std Dev 0.8695
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

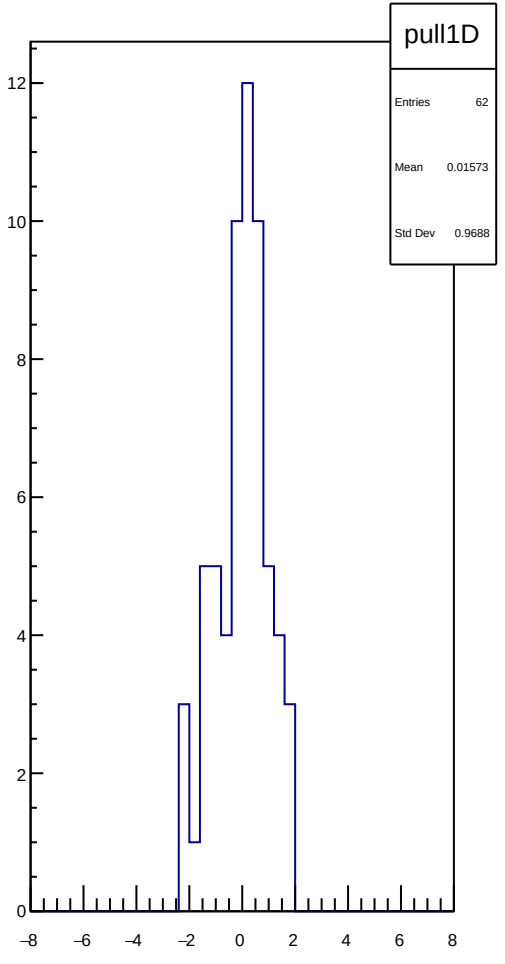

cor_sam6_rms vs run
χ² / ndf 729.4 / 61
p0 4250 ± 3.912
4600
4500
4400
4300
4200
4100
4000
3900
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

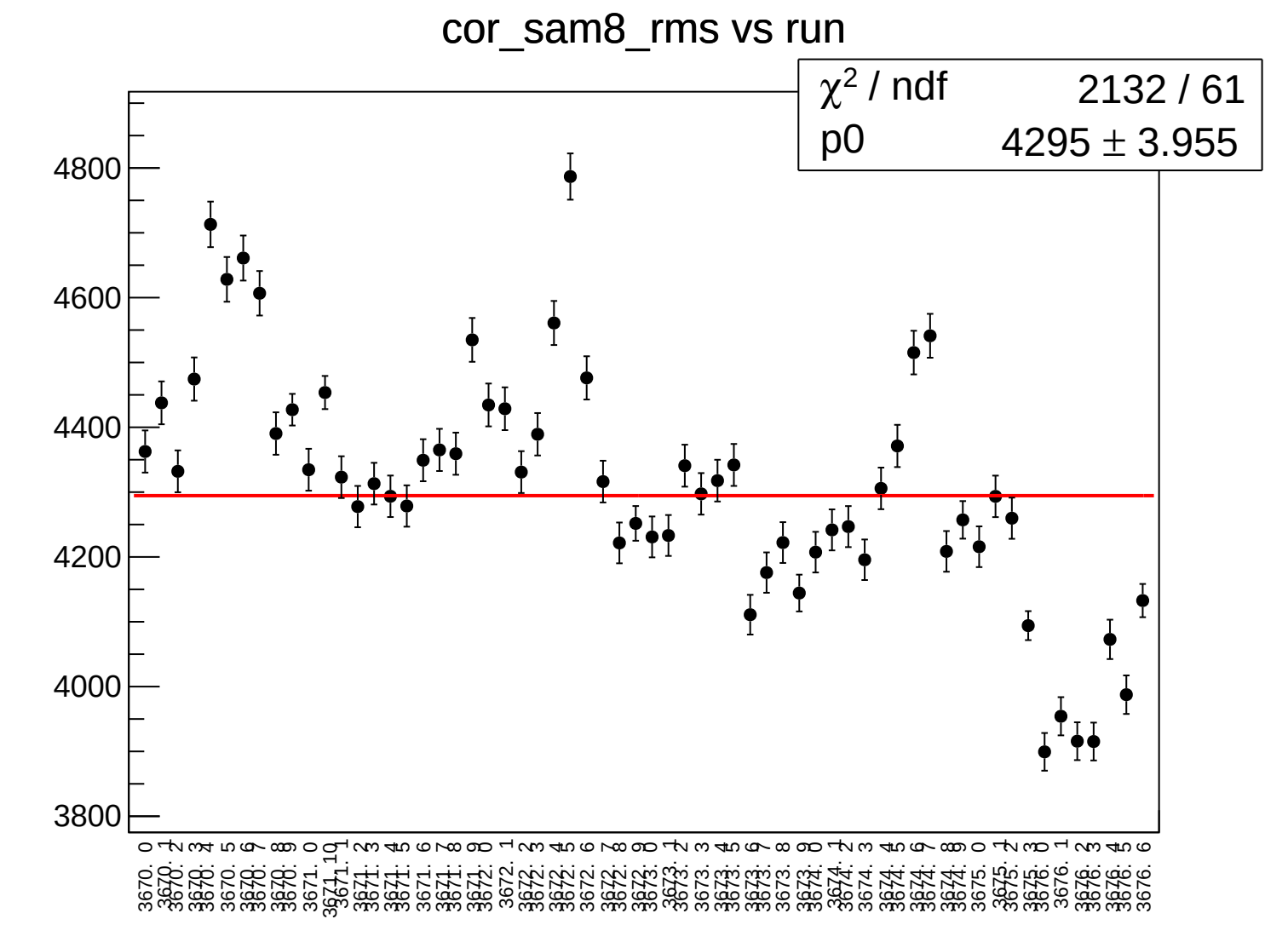

cor_sam7_mean vs run
χ² / ndf 50.87 / 61
p0 −4023 ± 6287
pull
Entries 62
Mean −90.21
Std Dev 116

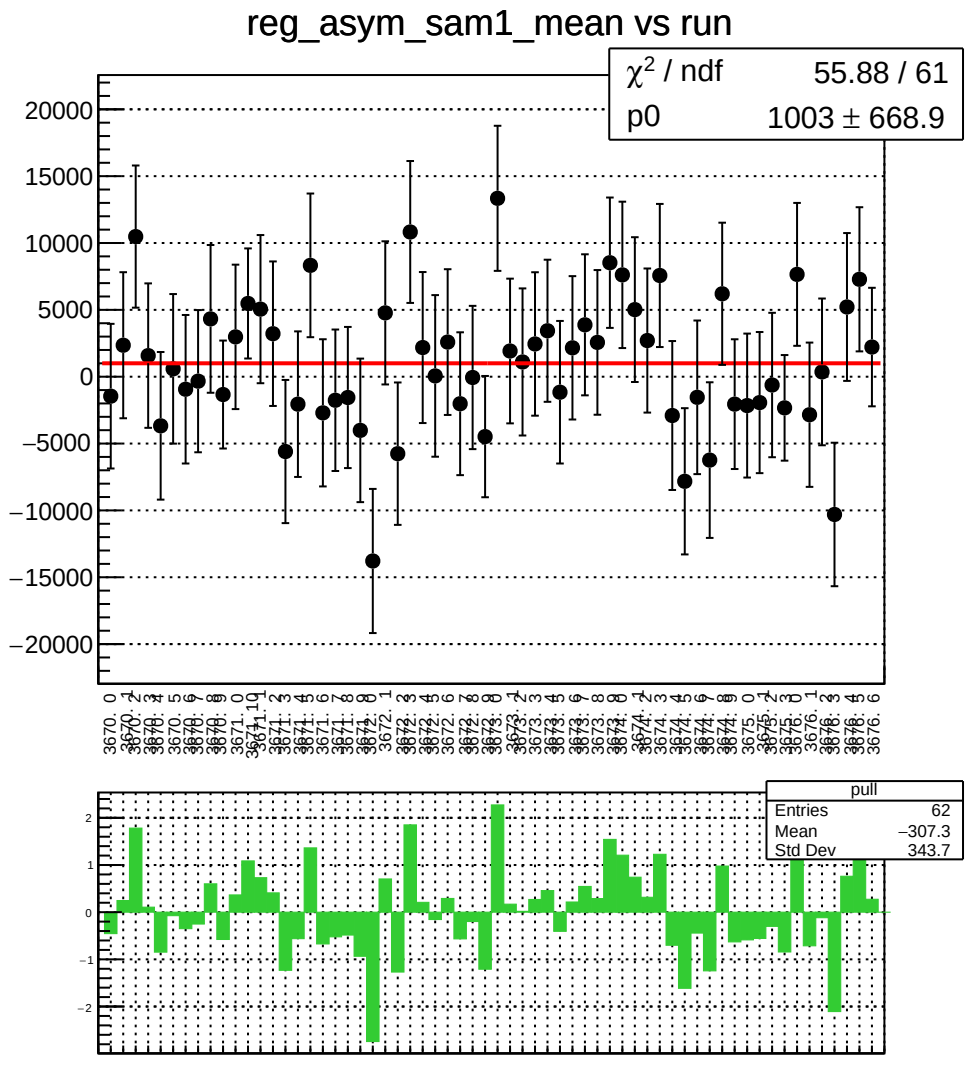

pull1D
Entries 62
Mean 0.02316
Std Dev 0.9055

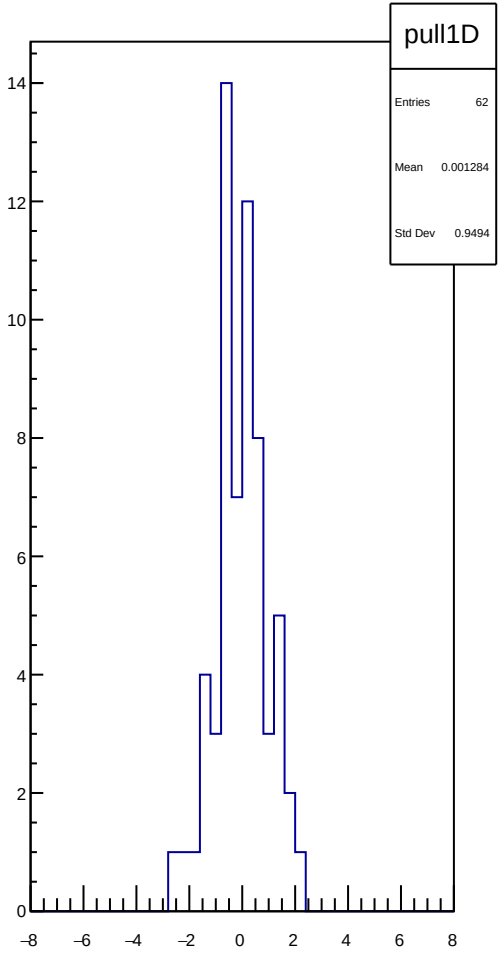

cor_sam7_rms vs run
χ^2 / ndf 1651 / 61
p0 4827 ± 4.445
5200
5000
4800
4600
4400

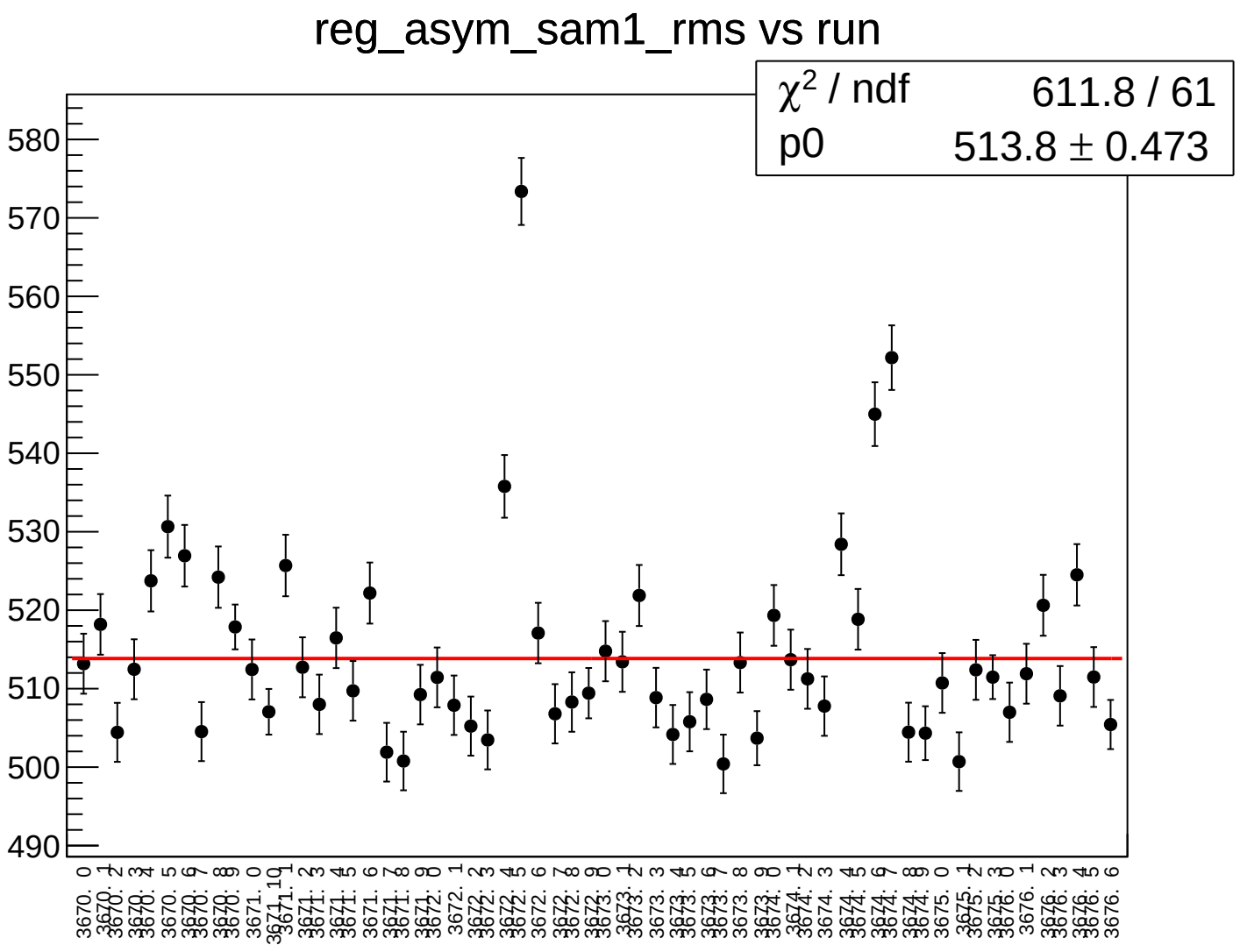

cor_sam8_mean vs run
×10^3
χ² / ndf 58.21 / 61
p0 −1194 ± 5594
100
50
0
−50
−100
−150
pull
Entries 62
Mean −110.9
Std Dev 135.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

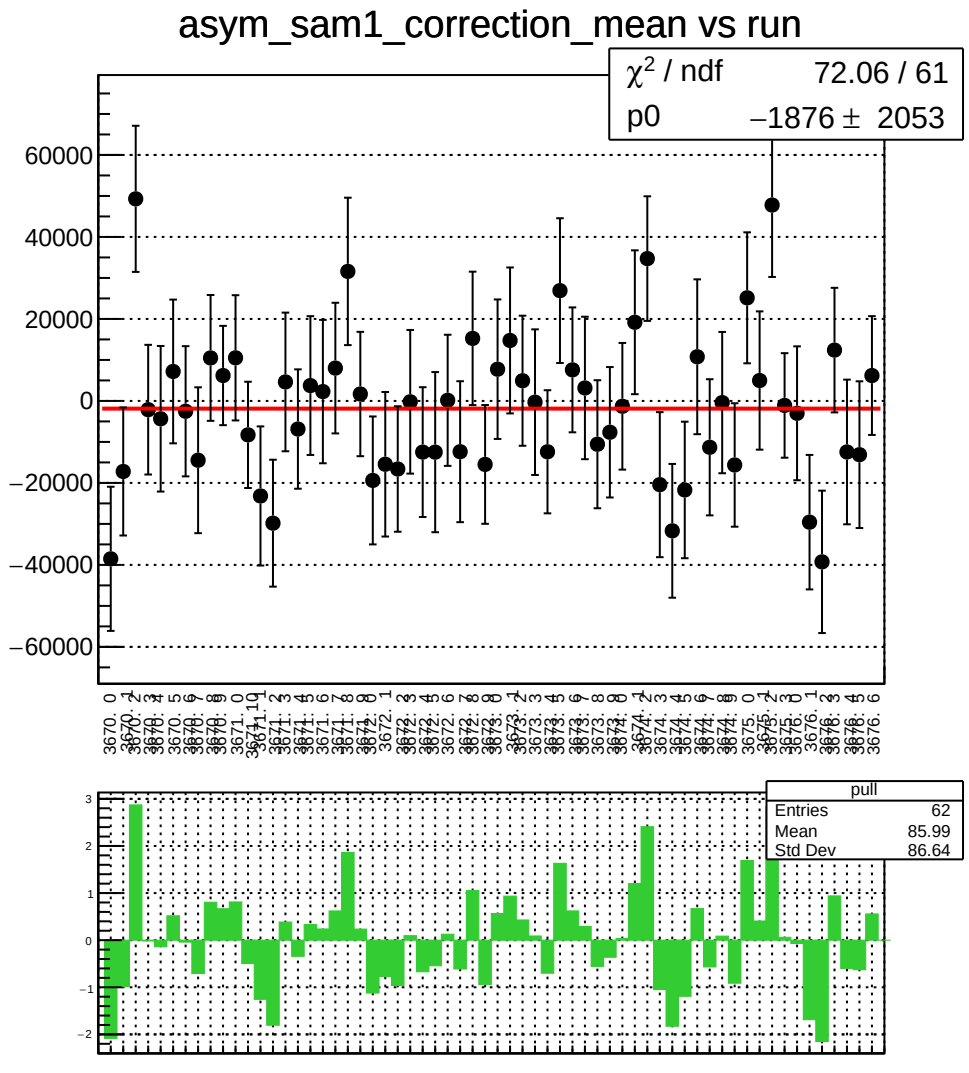

pull1D
Entries 62
Mean 0.01573
Std Dev 0.9688
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

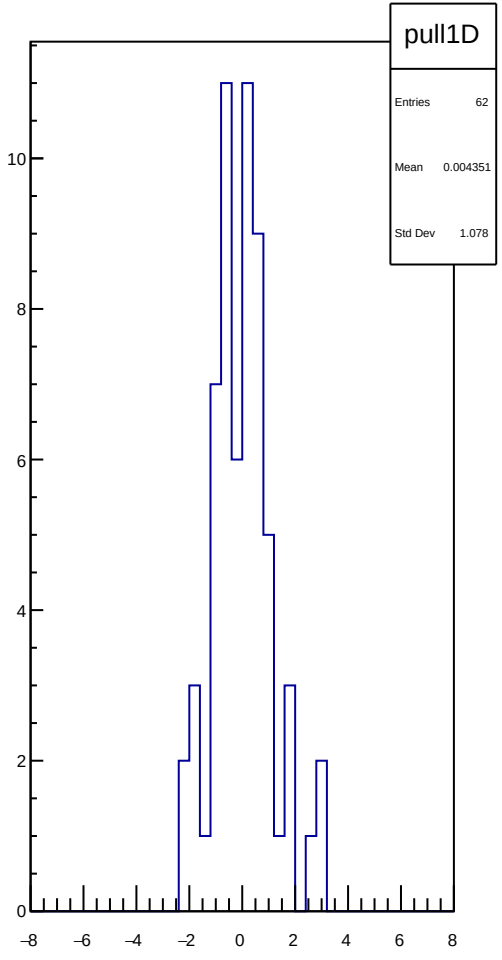

cor_sam8_rms vs run
χ² / ndf 2132 / 61
p0 4295 ± 3.955
4800
4600
4400
4200
4000
3800

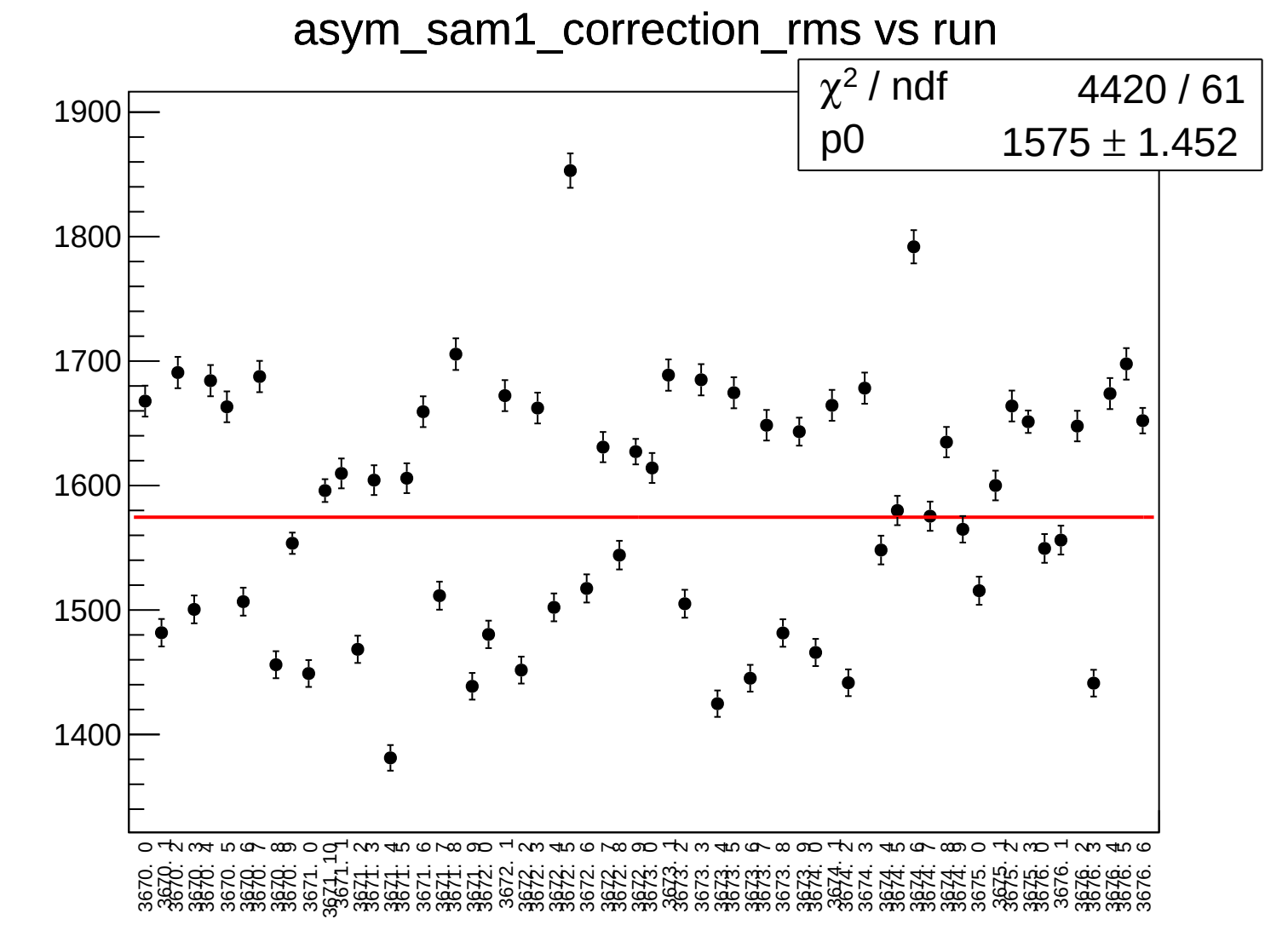

reg_asym_sam1_mean vs run
χ² / ndf 55.88 / 61
p0 1003 ± 668.9
pull
Entries 62
Mean −307.3
Std Dev 343.7

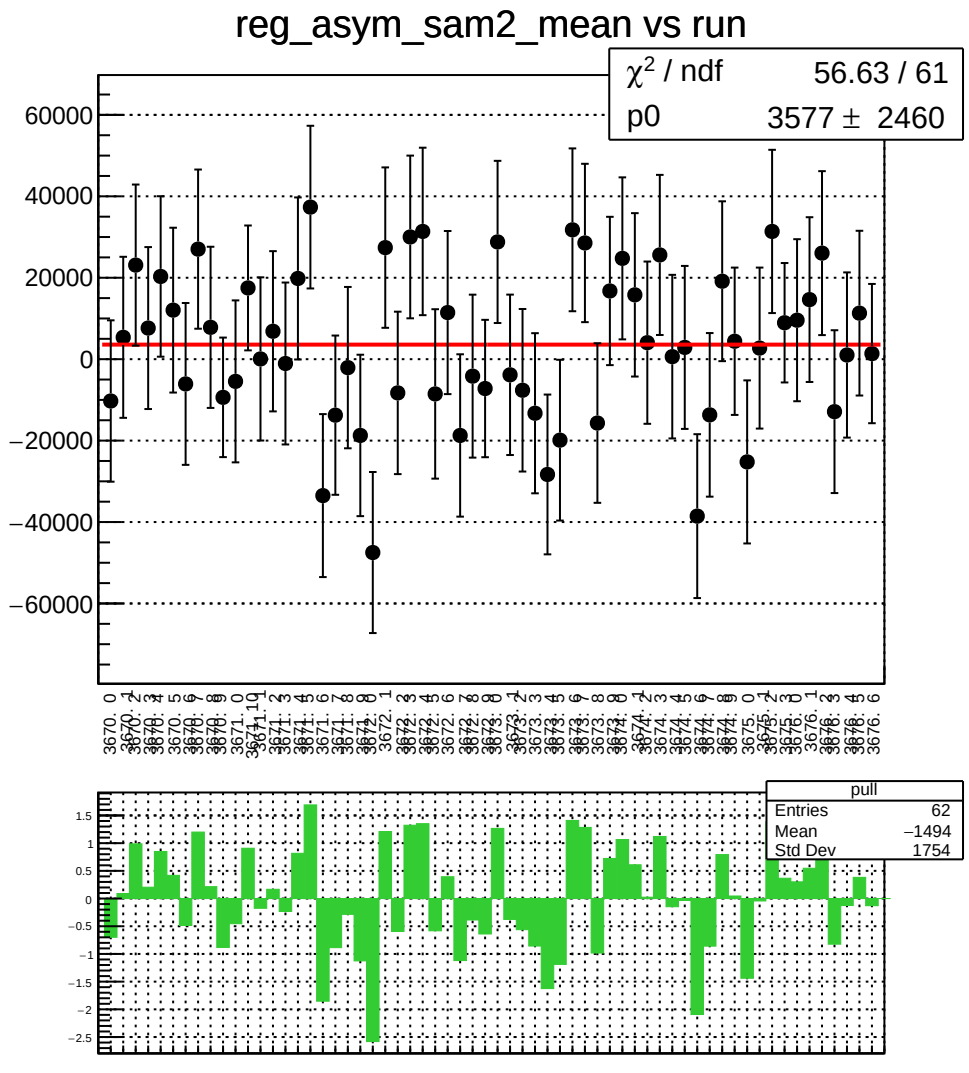

pull1D
Entries 62
Mean 0.001284
Std Dev 0.9494

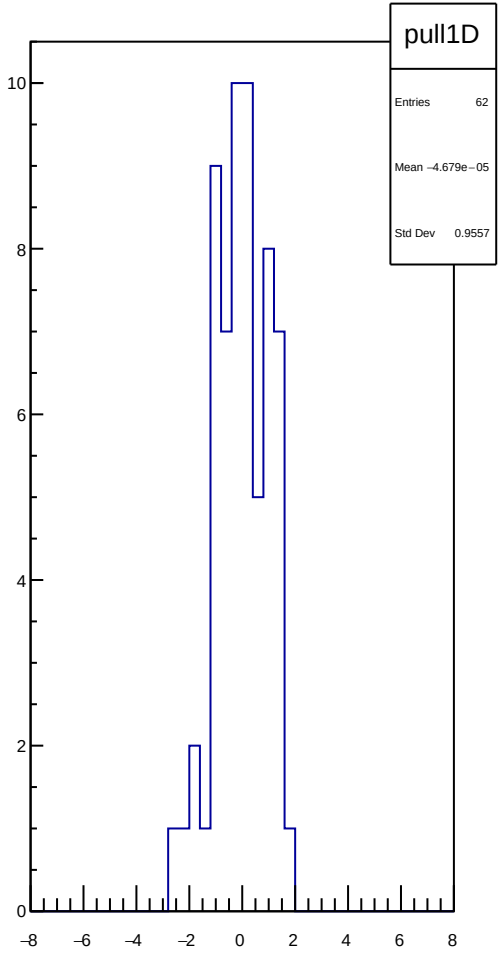

reg_asym_sam1_rms vs run
χ² / ndf 611.8 / 61
p0 513.8 ± 0.473
580
570
560
550
540
530
520
510
500
490

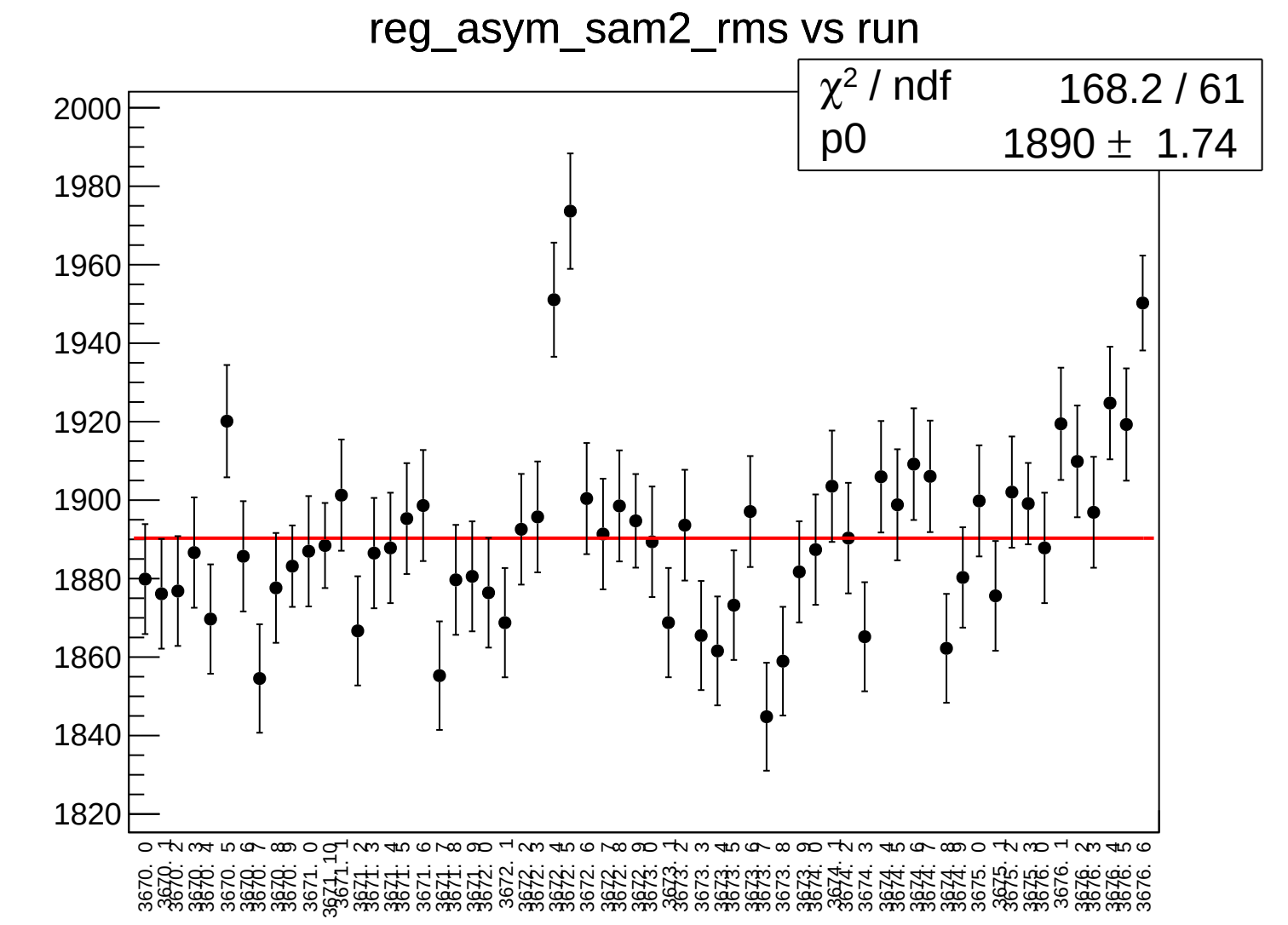

asym_sam1_correction_mean vs run
χ² / ndf 72.06 / 61
p0 −1876 ± 2053
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 62
Mean 85.99
Std Dev 86.64
3
2
1
0
−1
−2

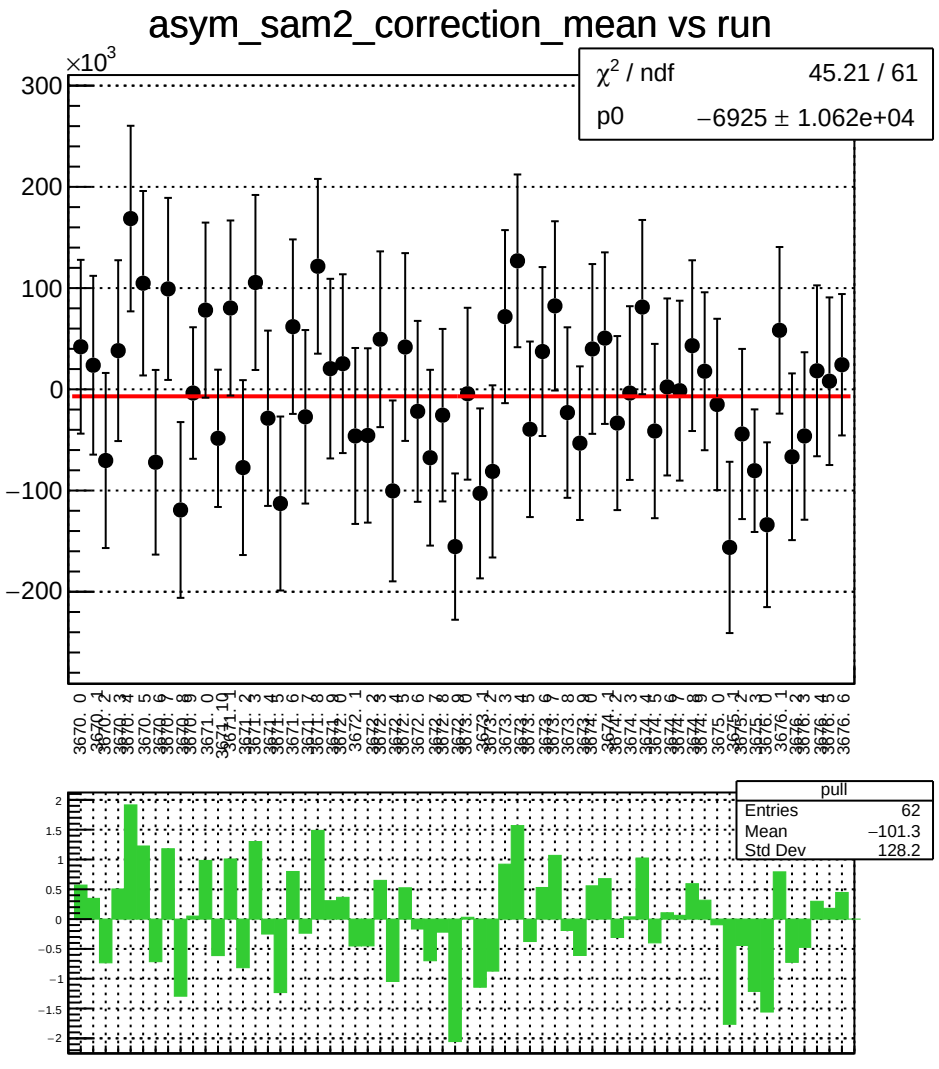

pull1D
Entries 62
Mean 0.004351
Std Dev 1.078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

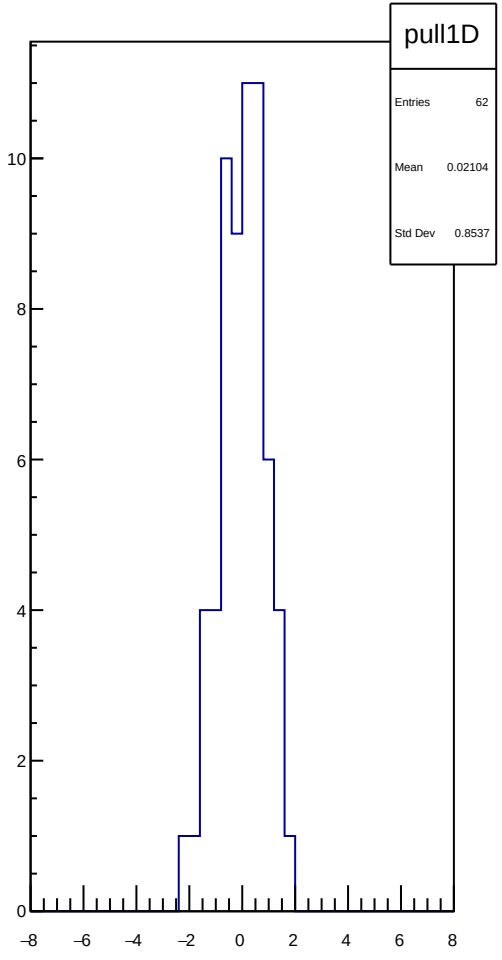

asym_sam1_correction_rms vs run
χ² / ndf 4420 / 61
p0 1575 ± 1.452
1900
1800
1700
1600
1500
1400

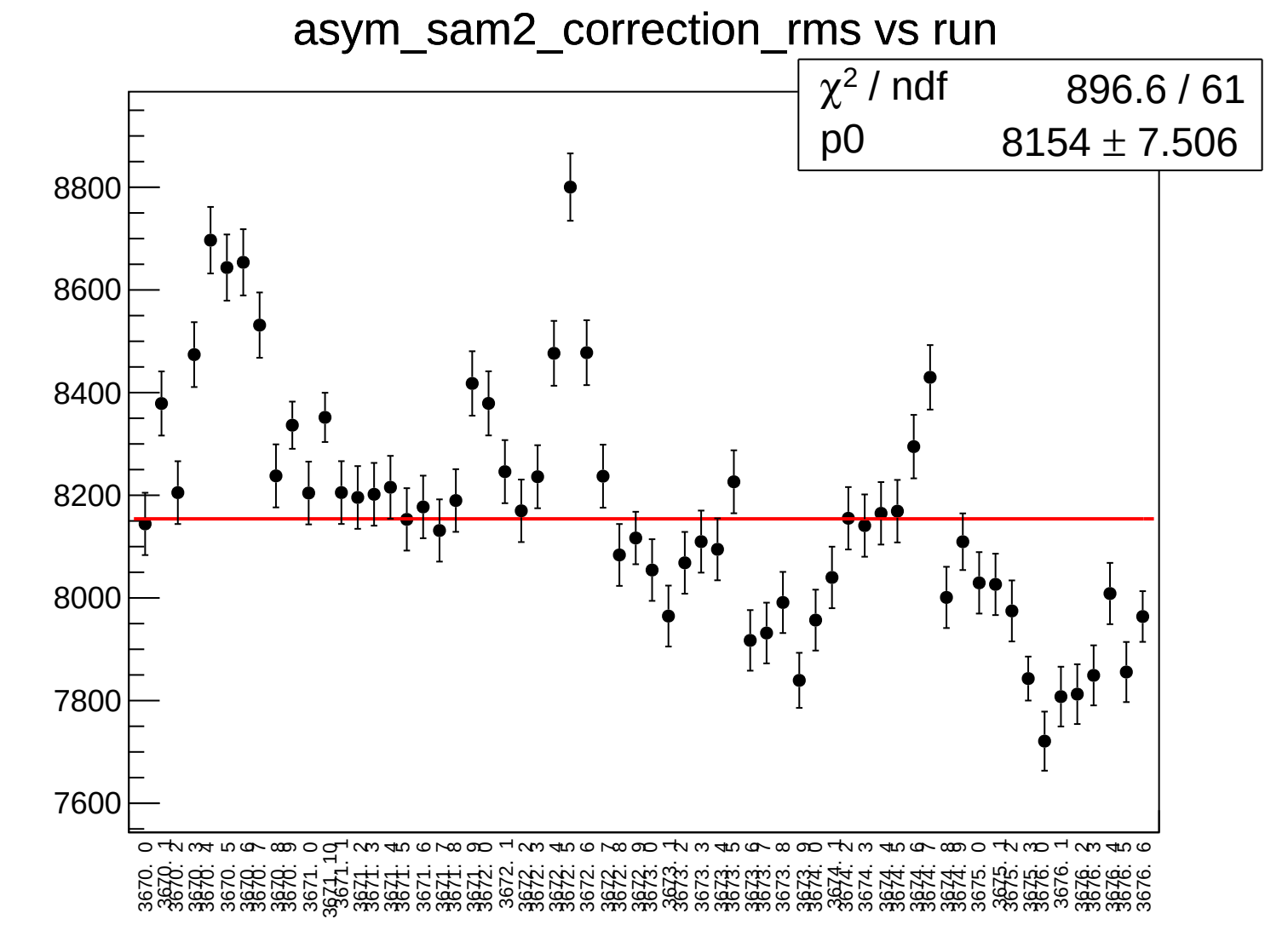

reg_asym_sam2_mean vs run
χ² / ndf 56.63 / 61
p0 3577 ± 2460
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 62
Mean −1494
Std Dev 1754
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

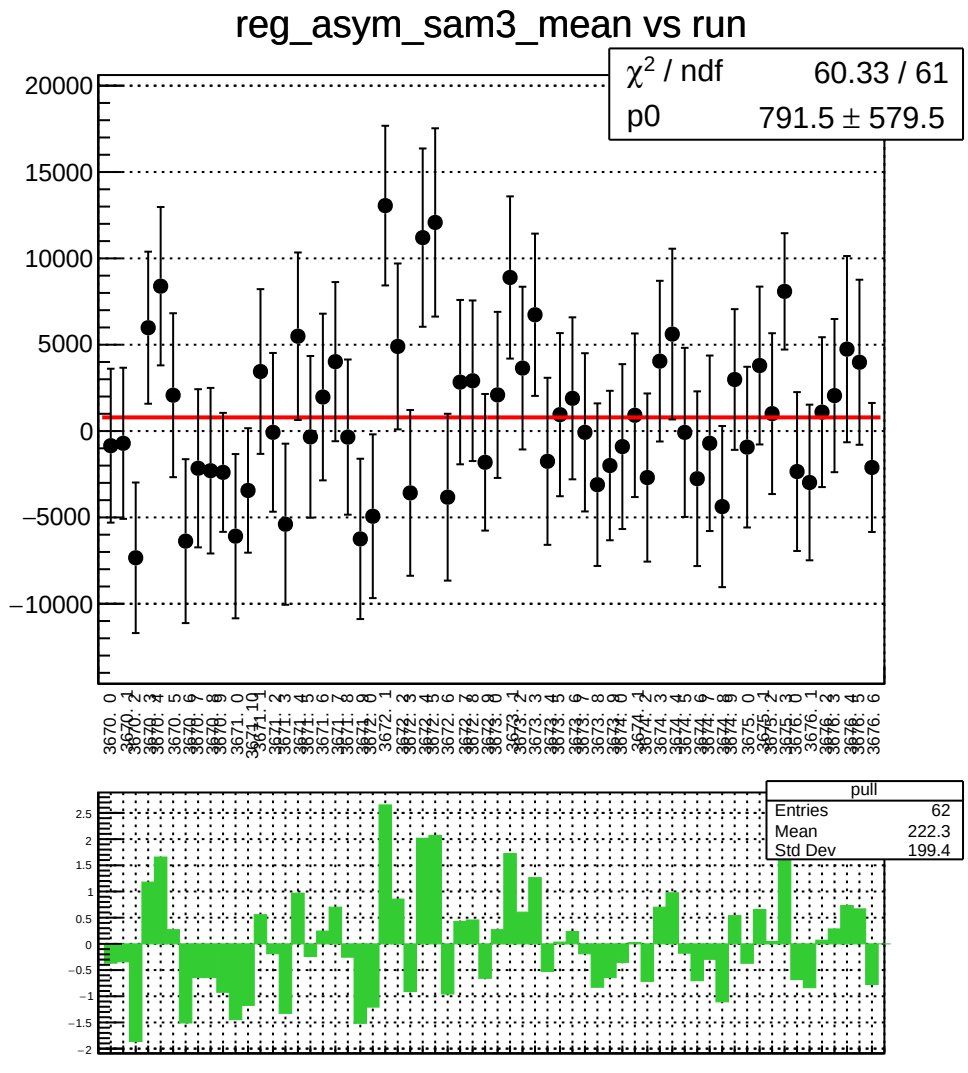

pull1D
Entries 62
Mean −4.679e−05
Std Dev 0.9557
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

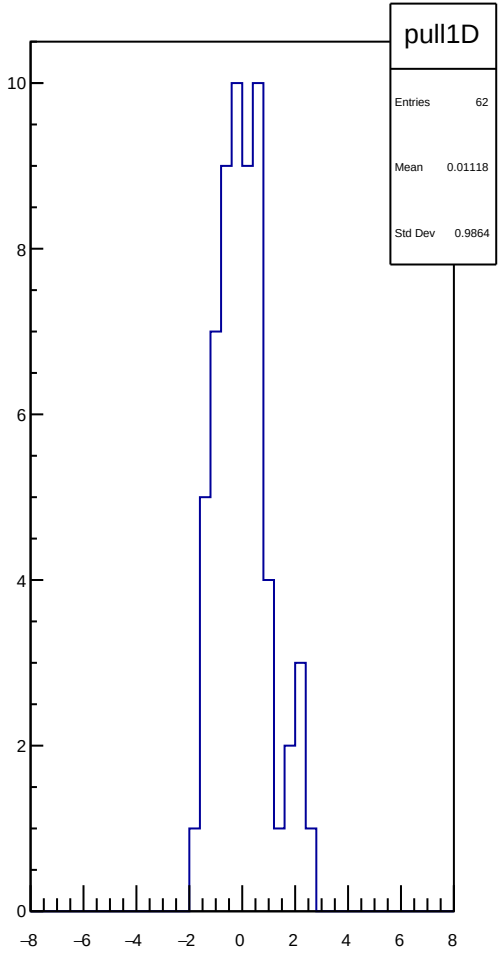

reg_asym_sam2_rms vs run
χ² / ndf 168.2 / 61
p0 1890 ± 1.74
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

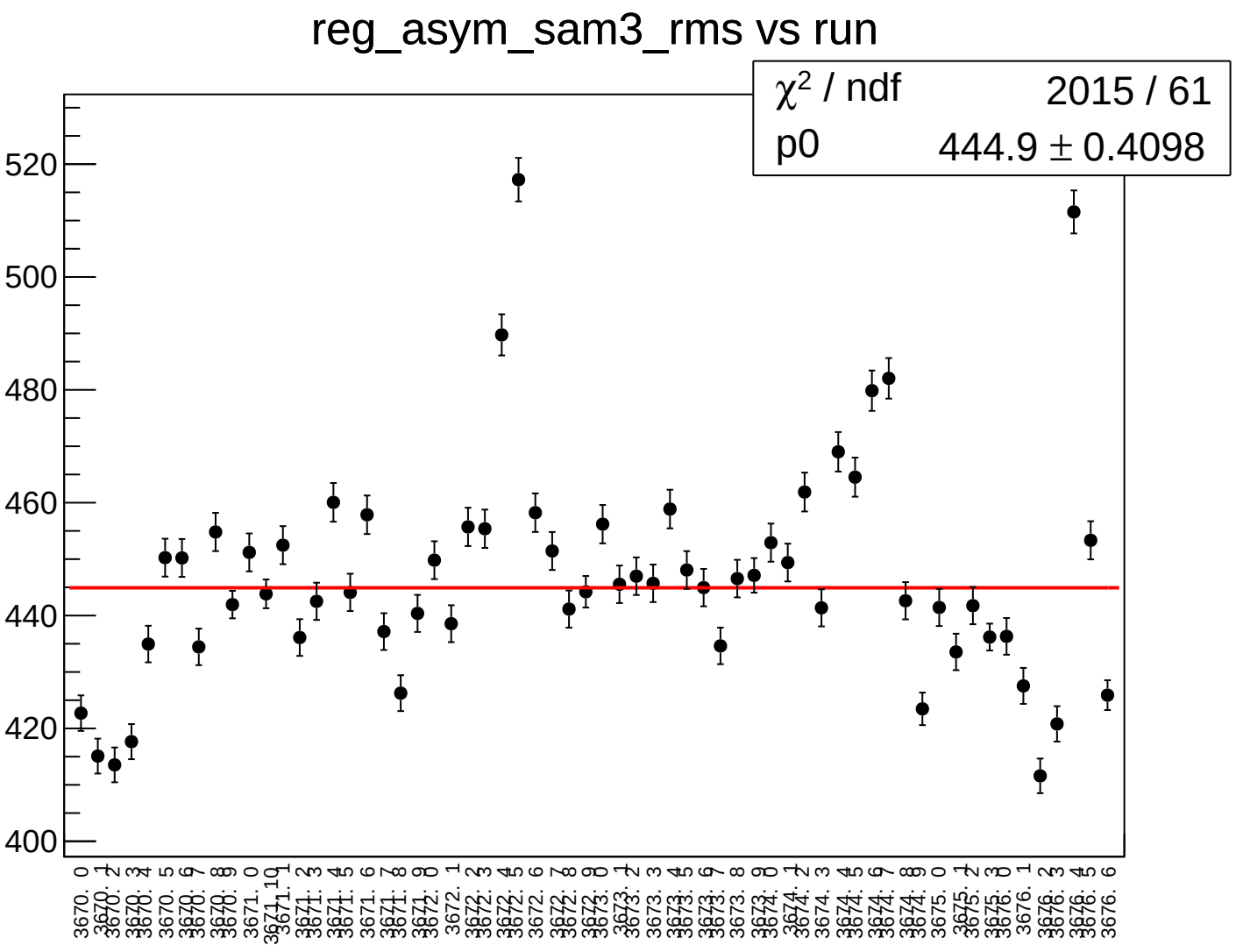

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 45.21 / 61
p0 −6925 ± 1.062e+04
pull
Entries 62
Mean −101.3
Std Dev 128.2

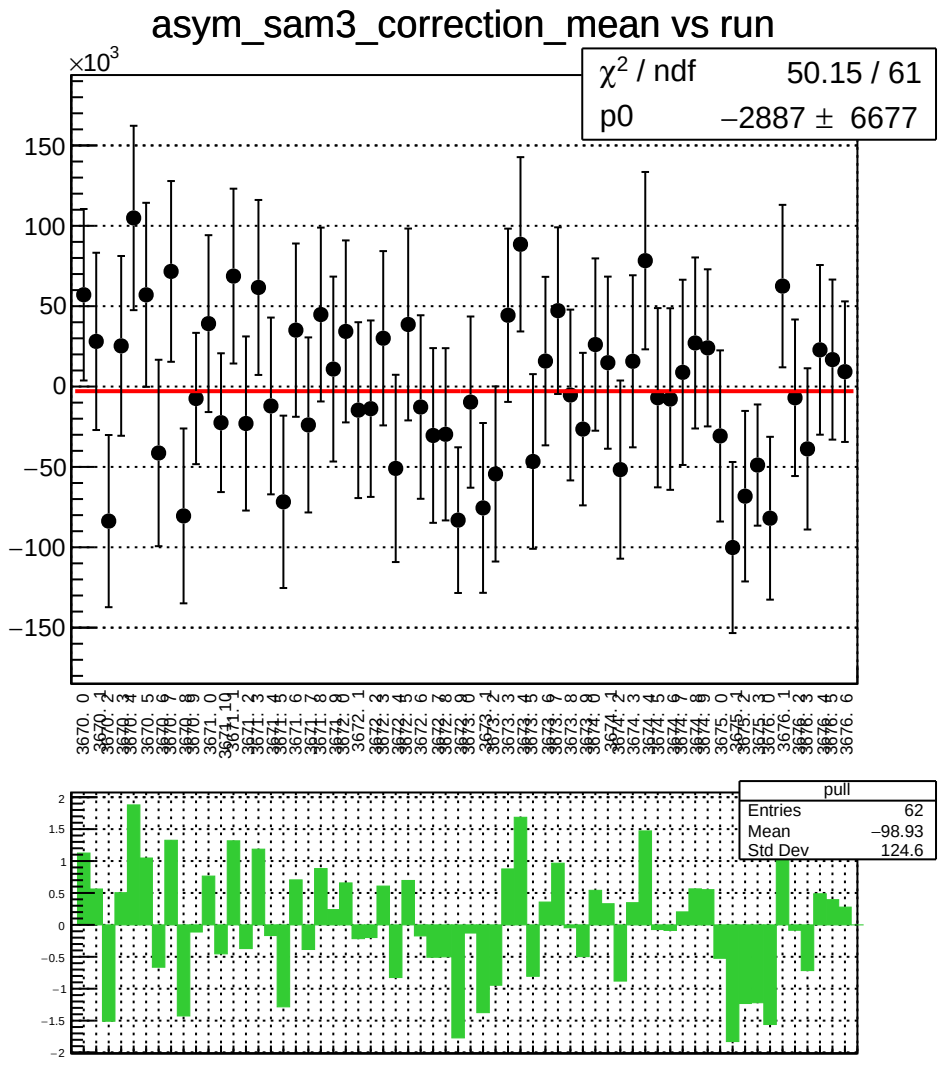

pull1D
Entries 62
Mean 0.02104
Std Dev 0.8537

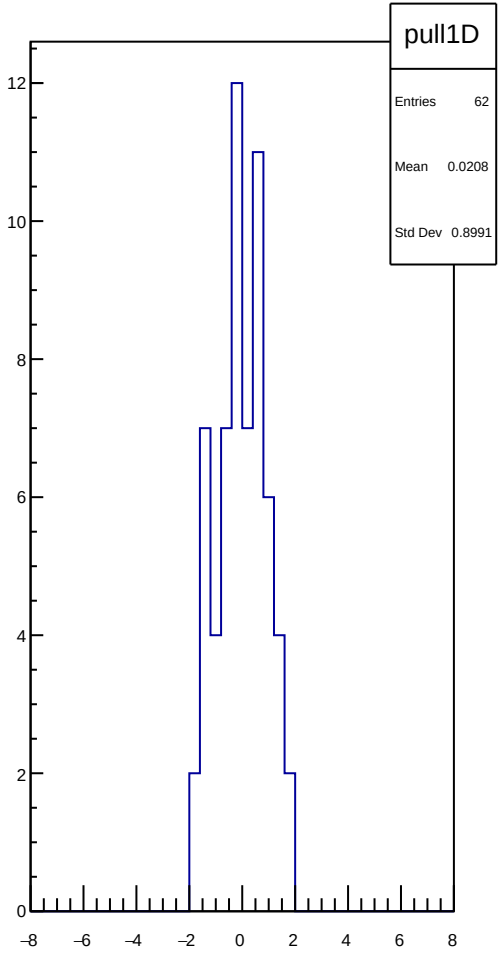

asym_sam2_correction_rms vs run
χ² / ndf 896.6 / 61
p0 8154 ± 7.506
8800
8600
8400
8200
8000
7800
7600
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

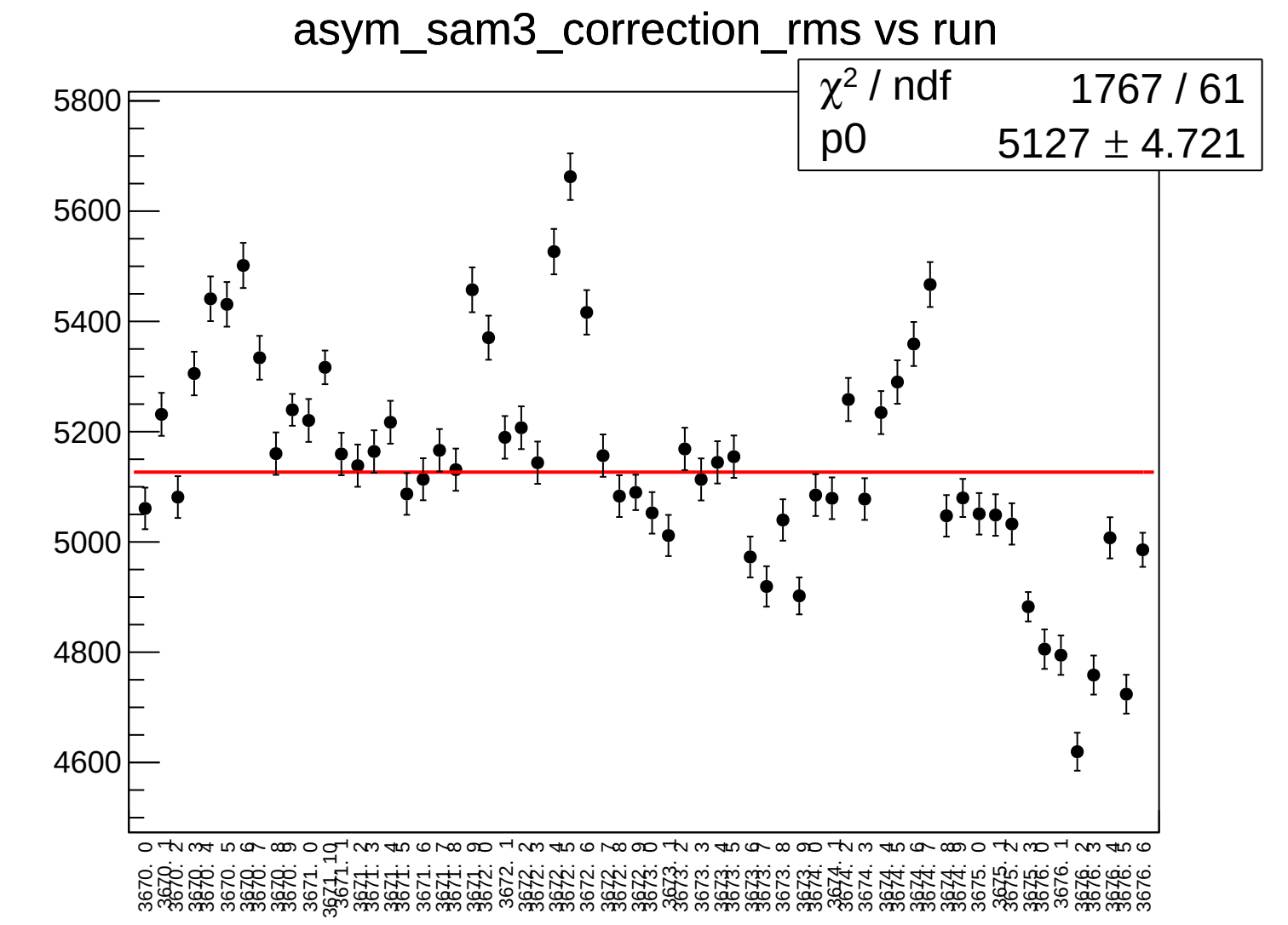

reg_asym_sam3_mean vs run
χ^2 / ndf 60.33 / 61
p0 791.5 ± 579.5
pull
Entries 62
Mean 222.3
Std Dev 199.4

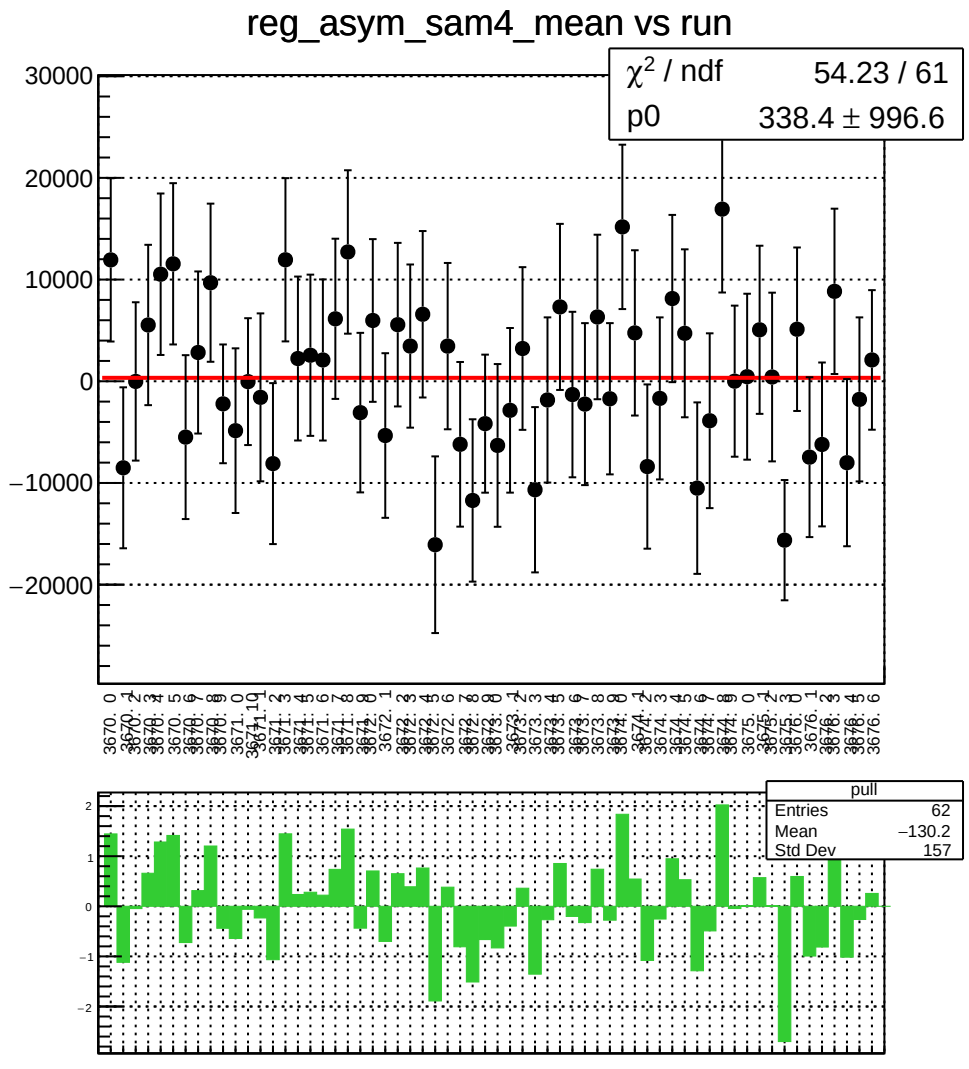

pull1D
Entries 62
Mean 0.01118
Std Dev 0.9864

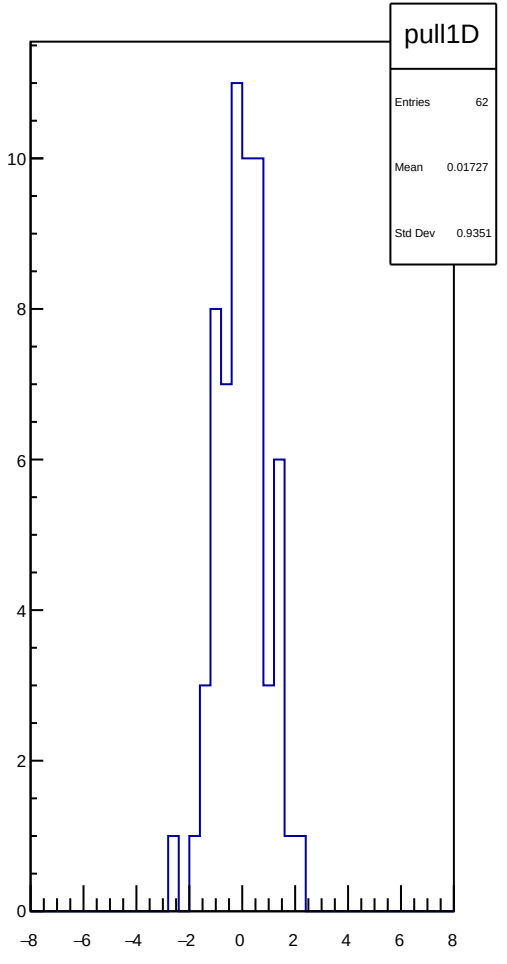

reg_asym_sam3_rms vs run
χ² / ndf 2015 / 61
p0 444.9 ± 0.4098
520
500
480
460
440
420
400
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

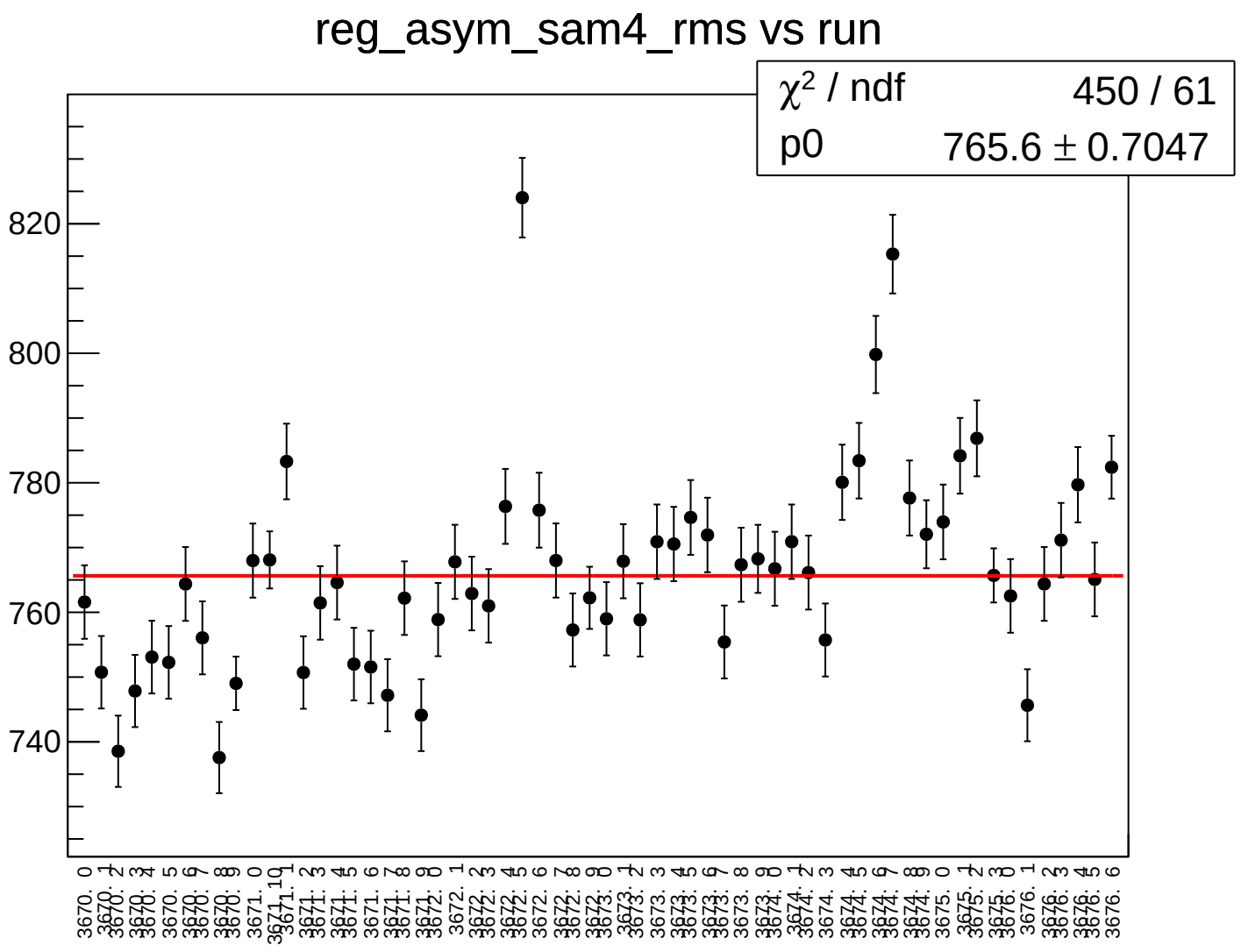

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 50.15 / 61
p0 −2887 ± 6677
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −98.93
Std Dev 124.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

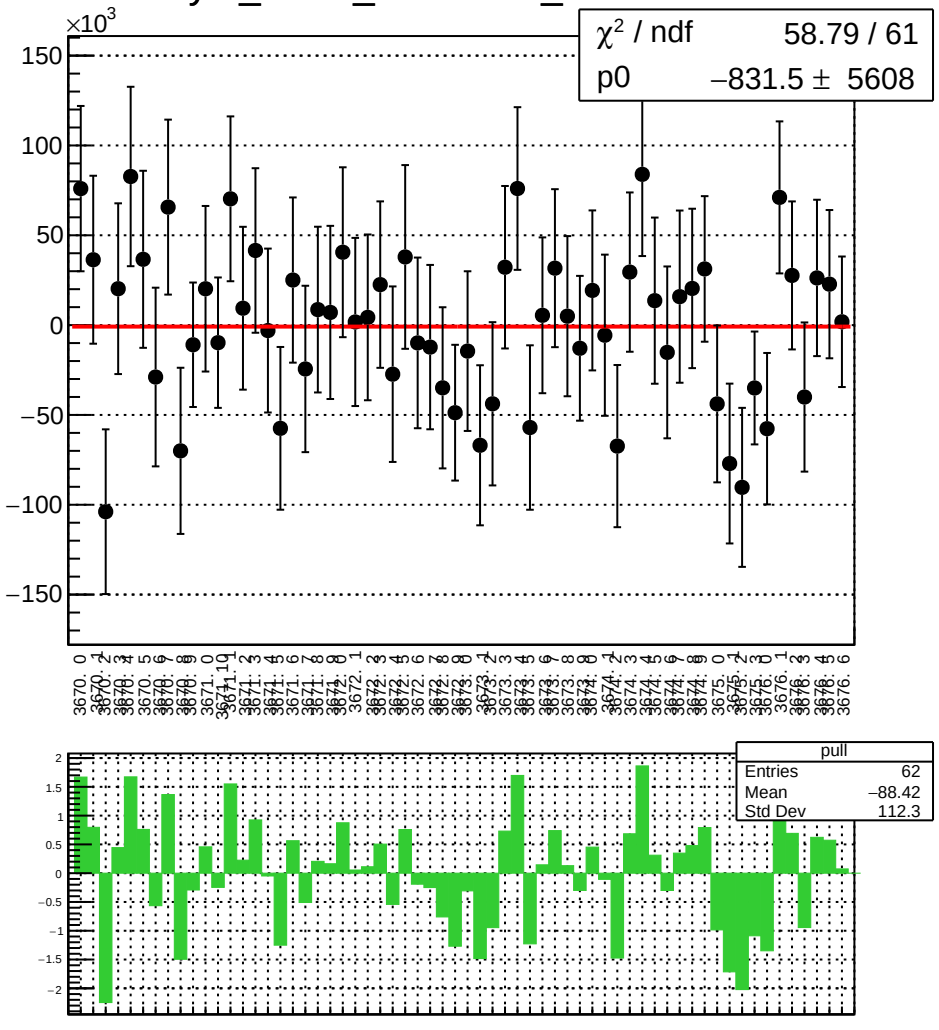

pull1D
Entries 62
Mean 0.0208
Std Dev 0.8991
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

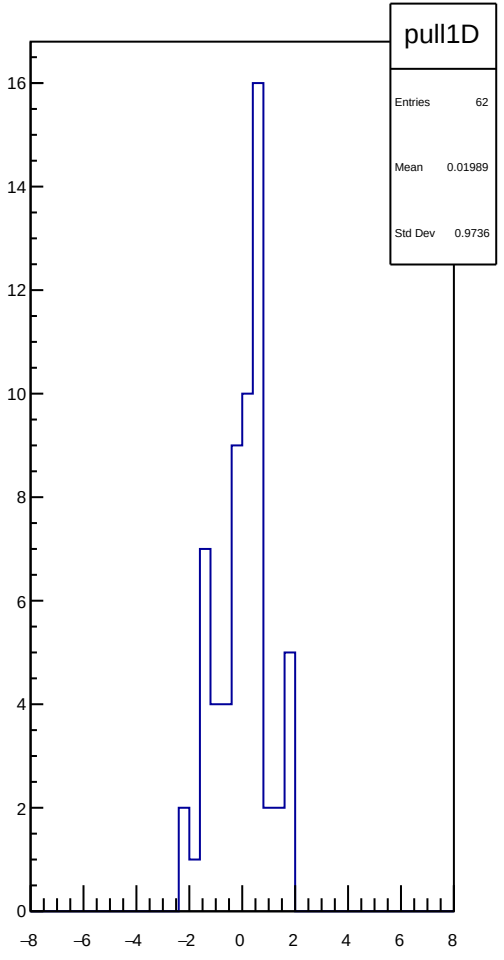

asym_sam3_correction_rms vs run
χ² / ndf 1767 / 61
p0 5127 ± 4.721
5800
5600
5400
5200
5000
4800
4600
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

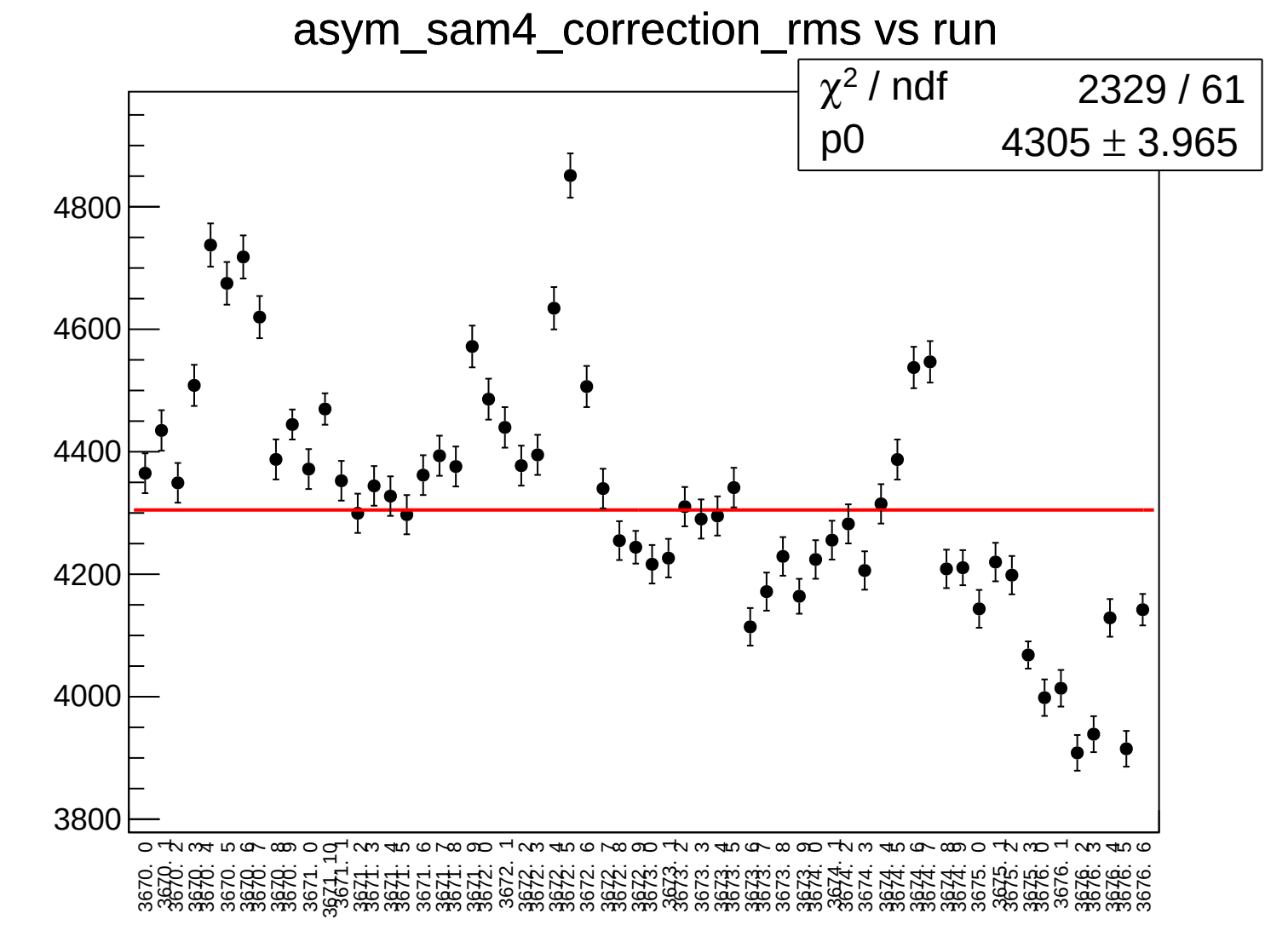

reg_asym_sam4_mean vs run
χ² / ndf 54.23 / 61
p0 338.4 ± 996.6
30000
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −130.2
Std Dev 157
2
1
0
−1
−2

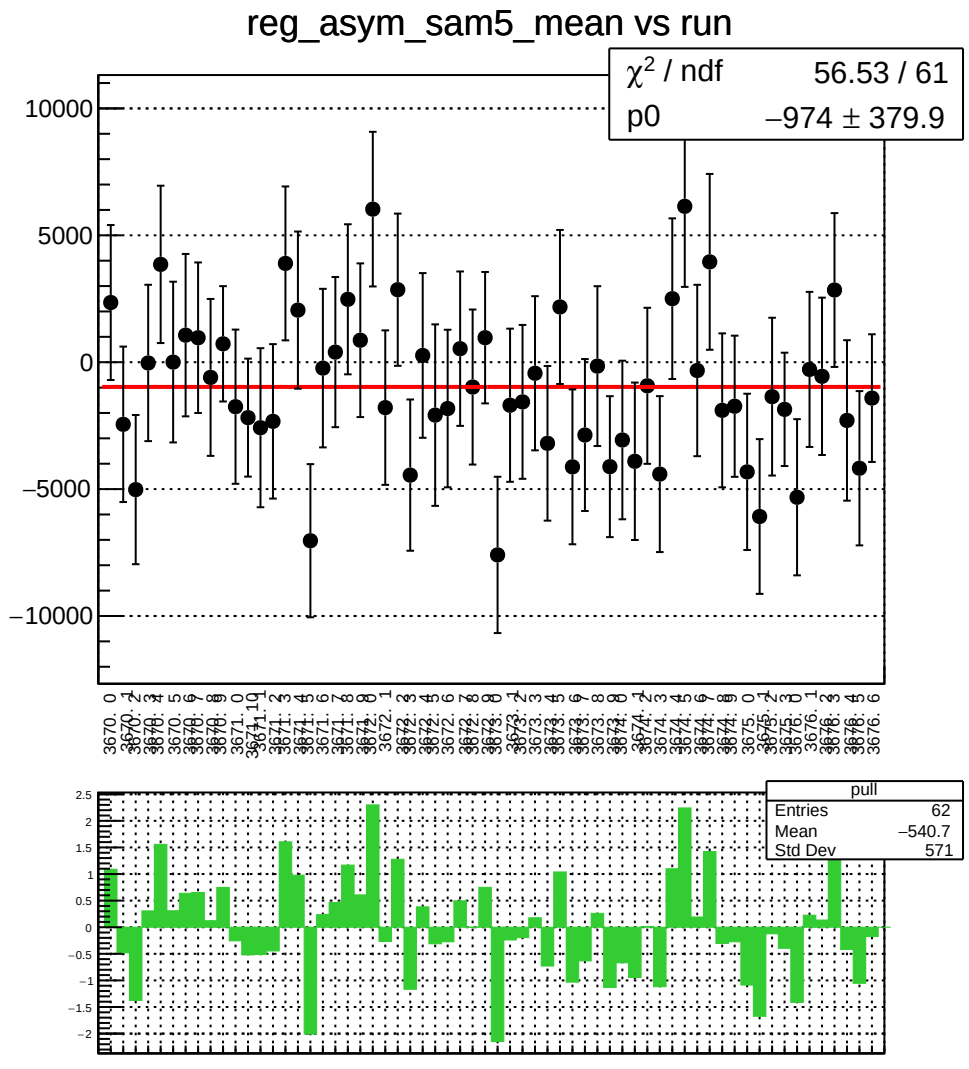

pull1D
Entries 62
Mean 0.01727
Std Dev 0.9351
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

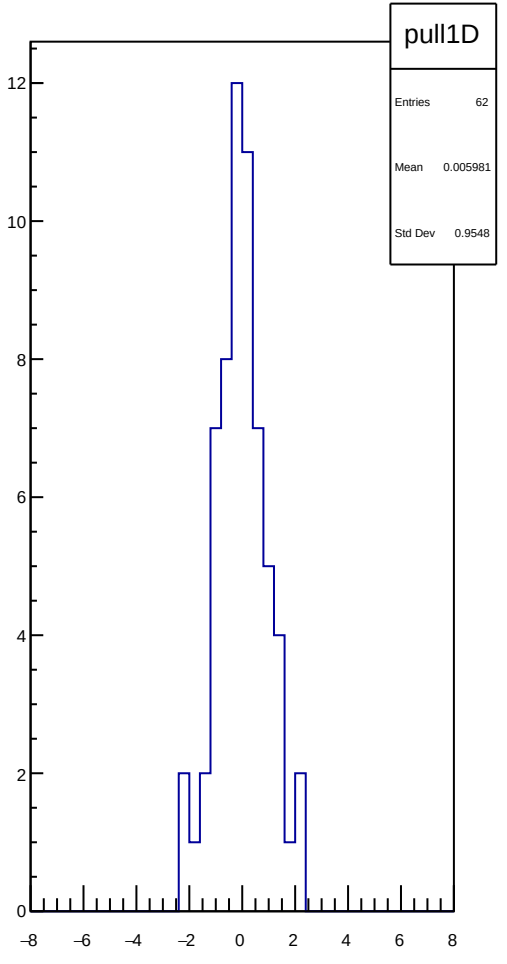

reg_asym_sam4_rms vs run
χ² / ndf 450 / 61
p0 765.6 ± 0.7047
820
800
780
760
740

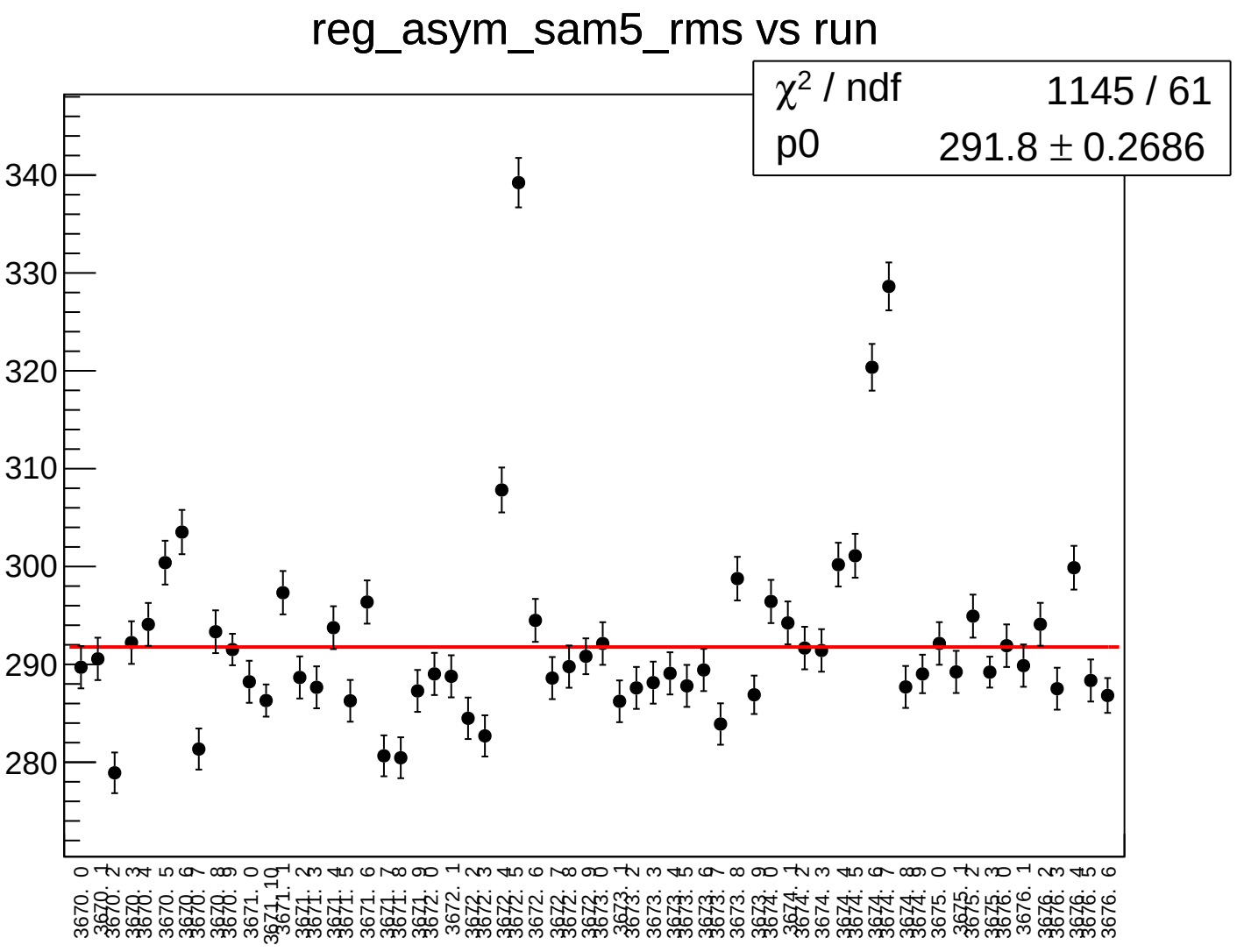

asym_sam4_correction_mean vs run
χ² / ndf 58.79 / 61
p0 −831.5 ± 5608
pull
Entries 62
Mean −88.42
Std Dev 112.3

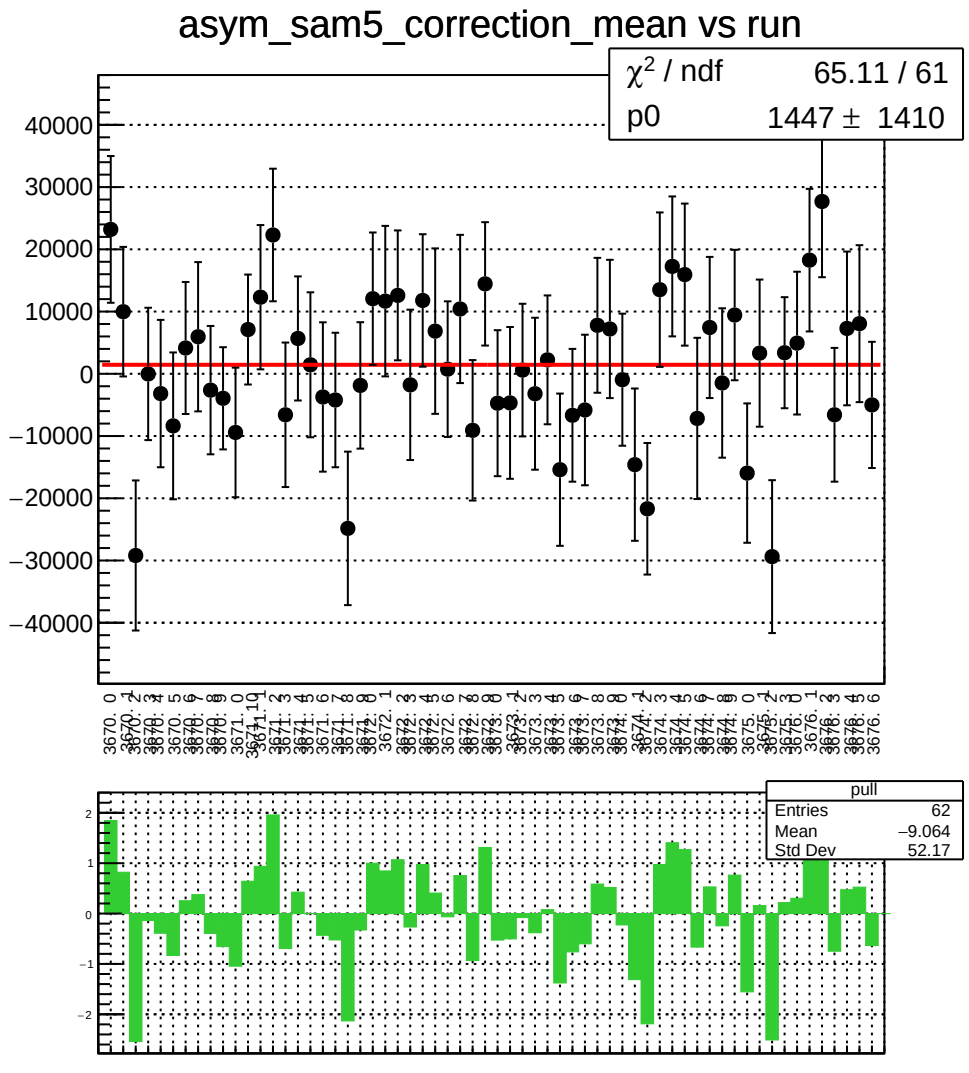

pull1D
Entries 62
Mean 0.01989
Std Dev 0.9736

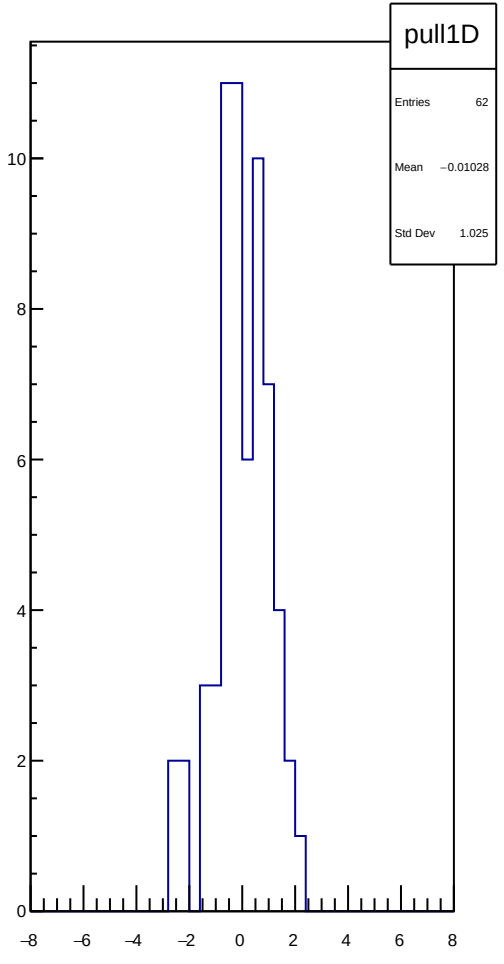

asym_sam4_correction_rms vs run
χ² / ndf 2329 / 61
p0 4305 ± 3.965
4800
4600
4400
4200
4000
3800
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

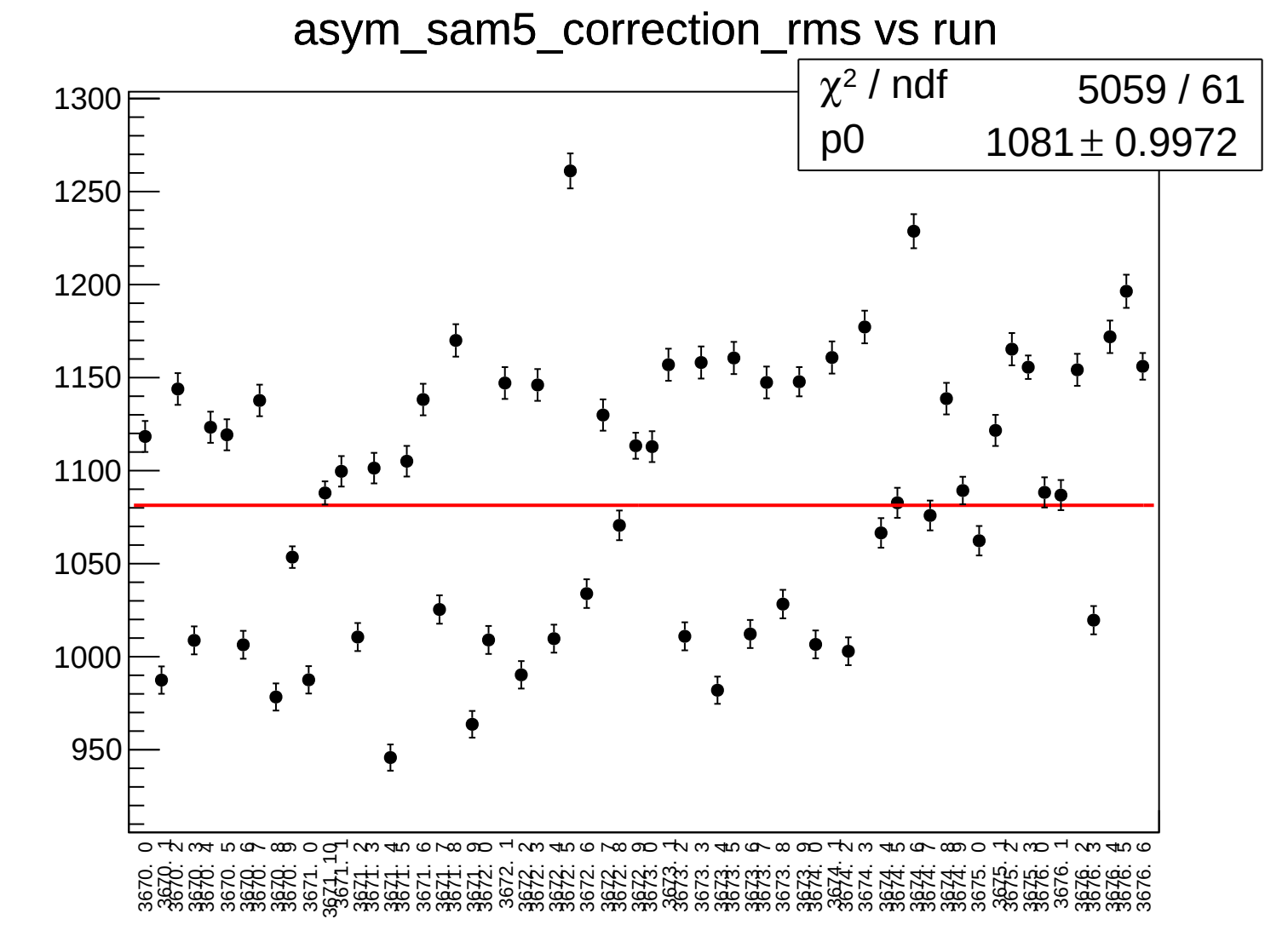

reg_asym_sam5_mean vs run
χ² / ndf 56.53 / 61
p0 −974 ± 379.9
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −540.7
Std Dev 571
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

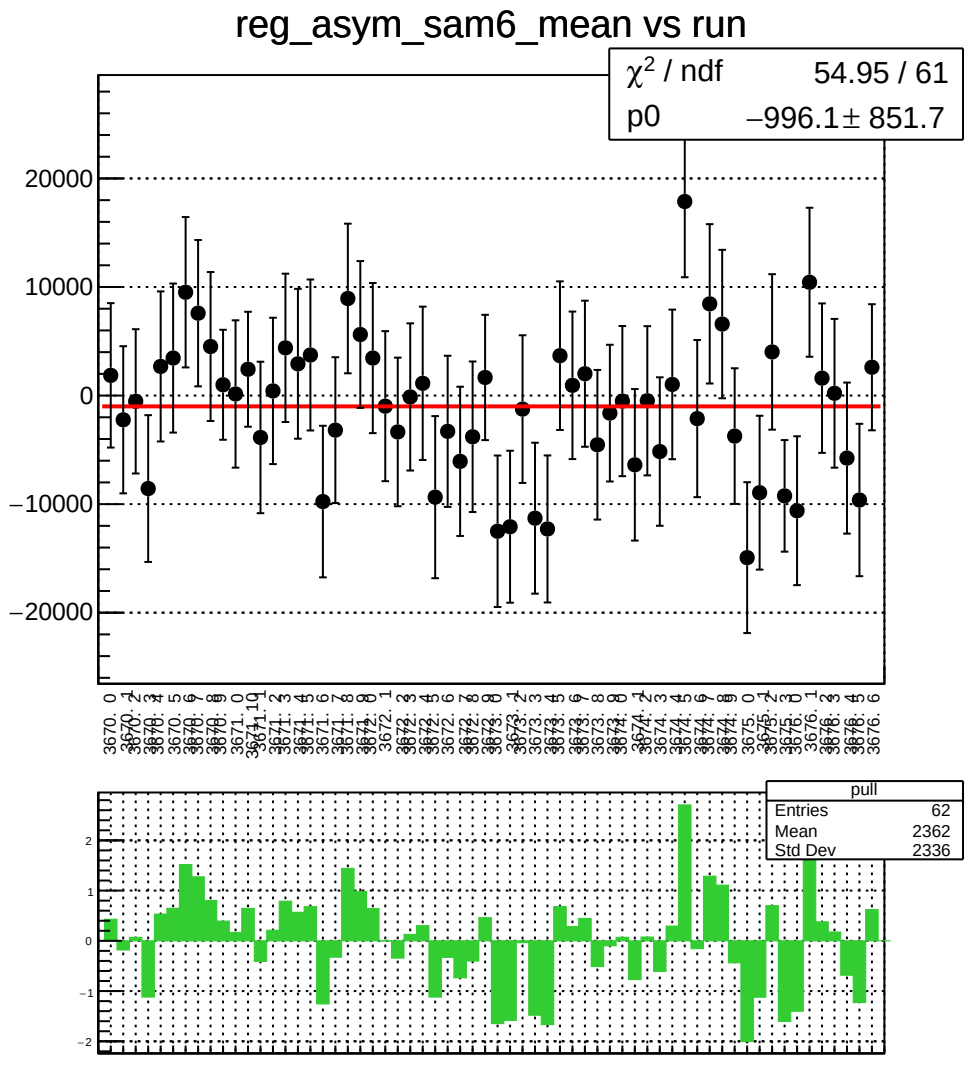

pull1D
Entries 62
Mean 0.005981
Std Dev 0.9548
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

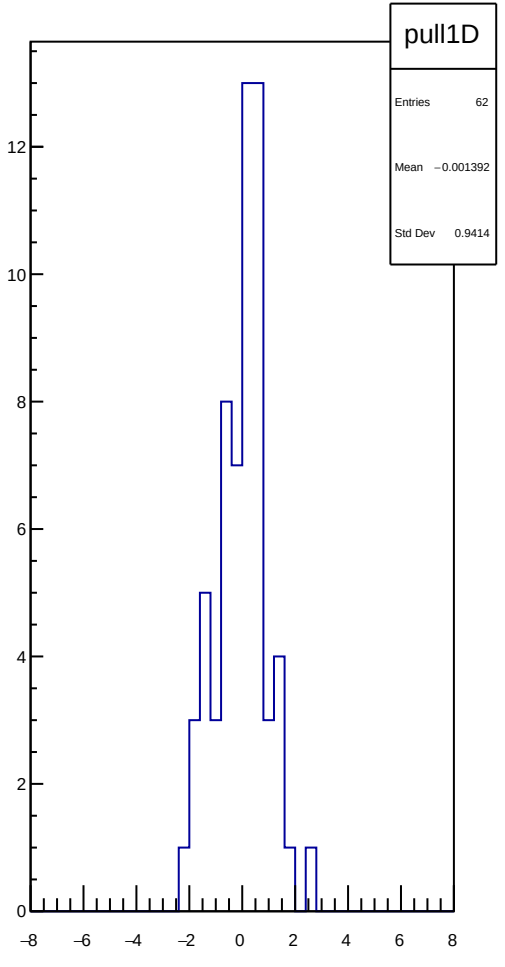

reg_asym_sam5_rms vs run
χ² / ndf 1145 / 61
p0 291.8 ± 0.2686
340
330
320
310
300
290
280
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

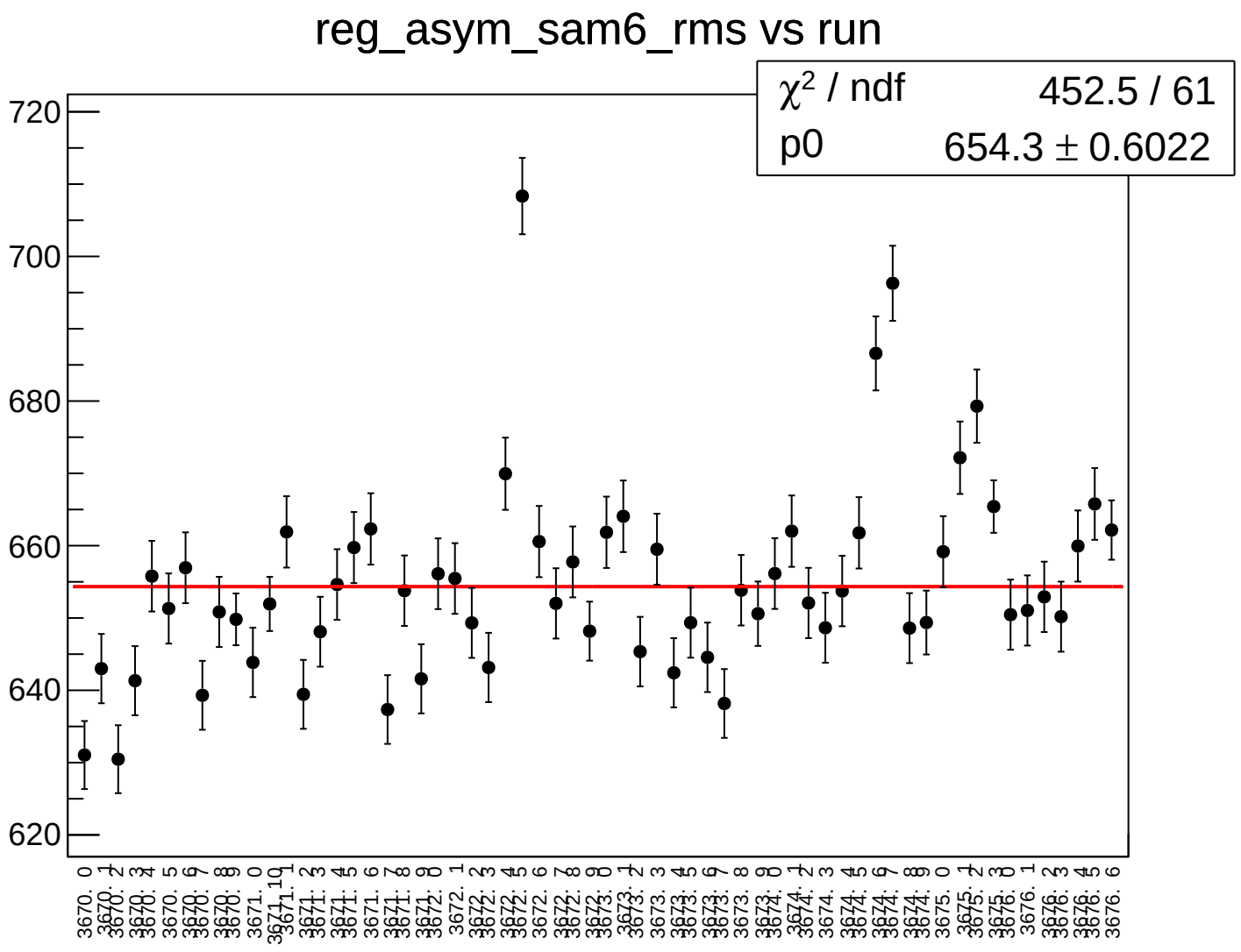

asym_sam5_correction_mean vs run
χ² / ndf 65.11 / 61
p0 1447 ± 1410
pull
Entries 62
Mean −9.064
Std Dev 52.17

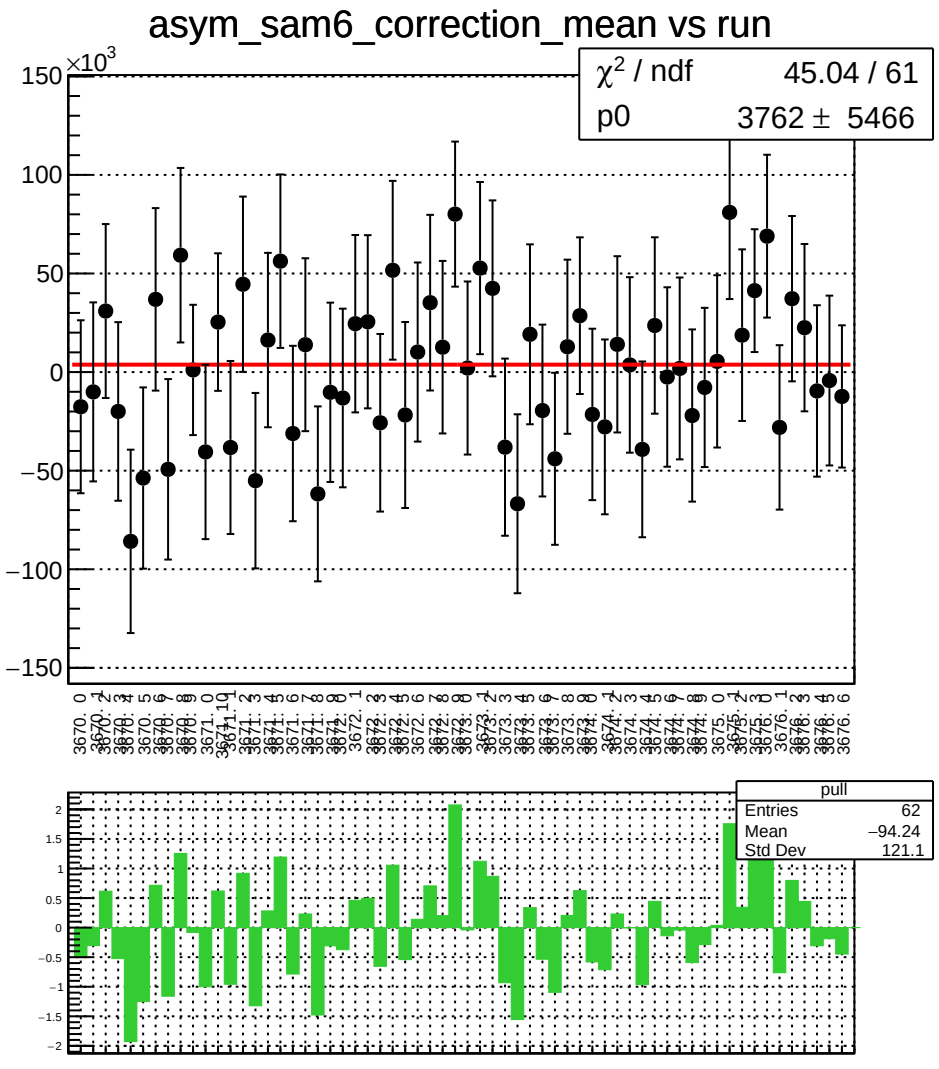

pull1D
Entries 62
Mean −0.01028
Std Dev 1.025

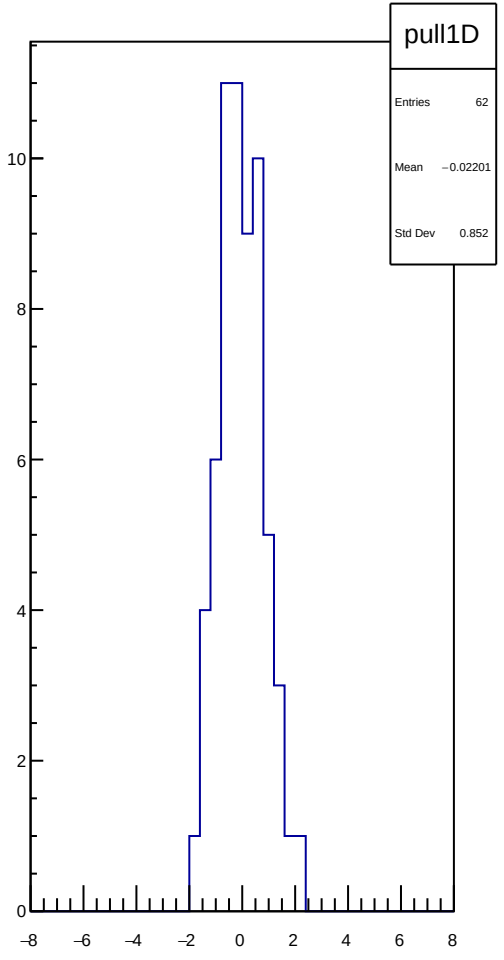

asym_sam5_correction_rms vs run
χ² / ndf 5059 / 61
p0 1081 ± 0.9972
1300
1250
1200
1150
1100
1050
1000
950

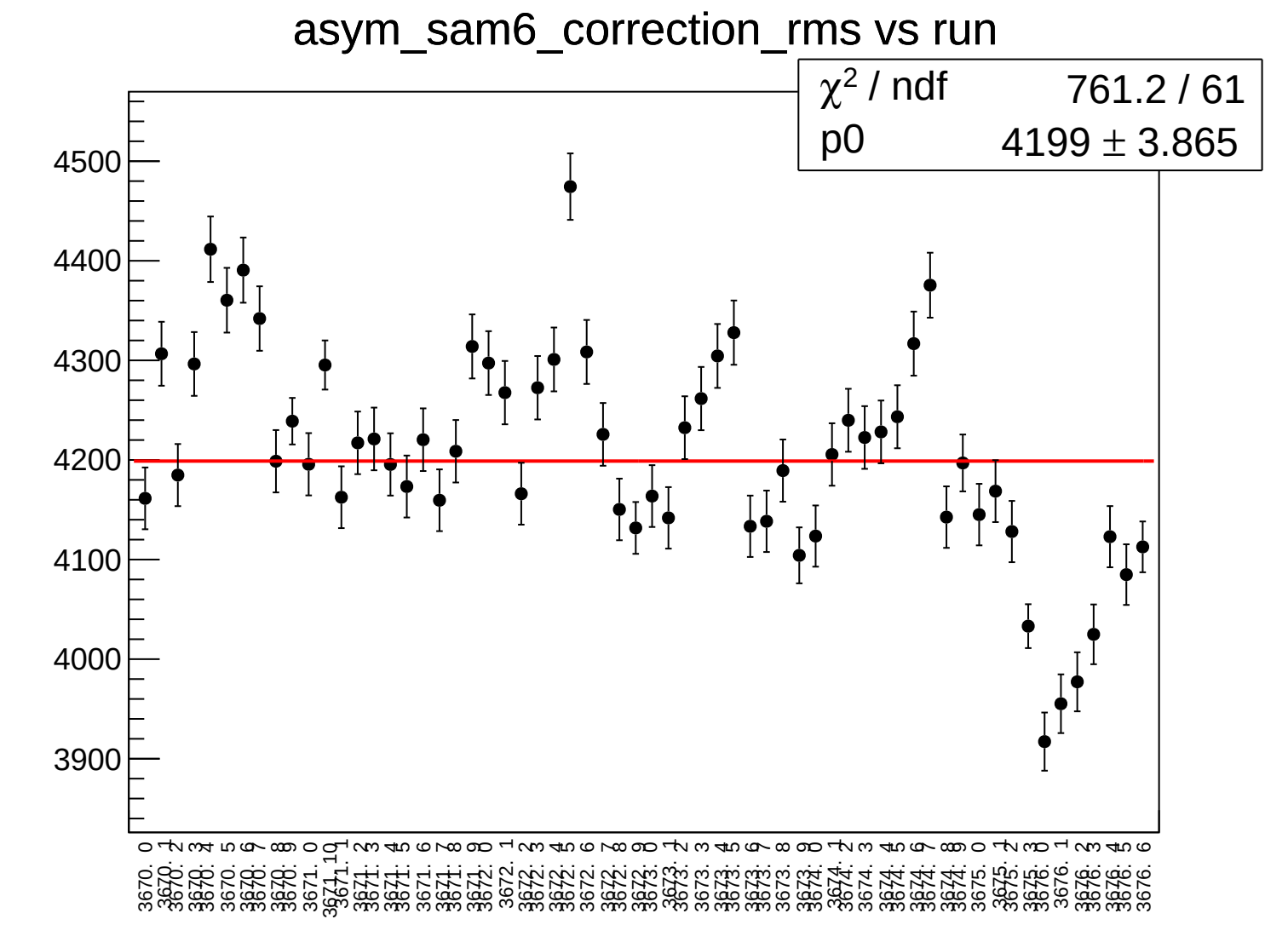

reg_asym_sam6_mean vs run
χ² / ndf 54.95 / 61
p0 −996.1 ± 851.7
pull
Entries 62
Mean 2362
Std Dev 2336

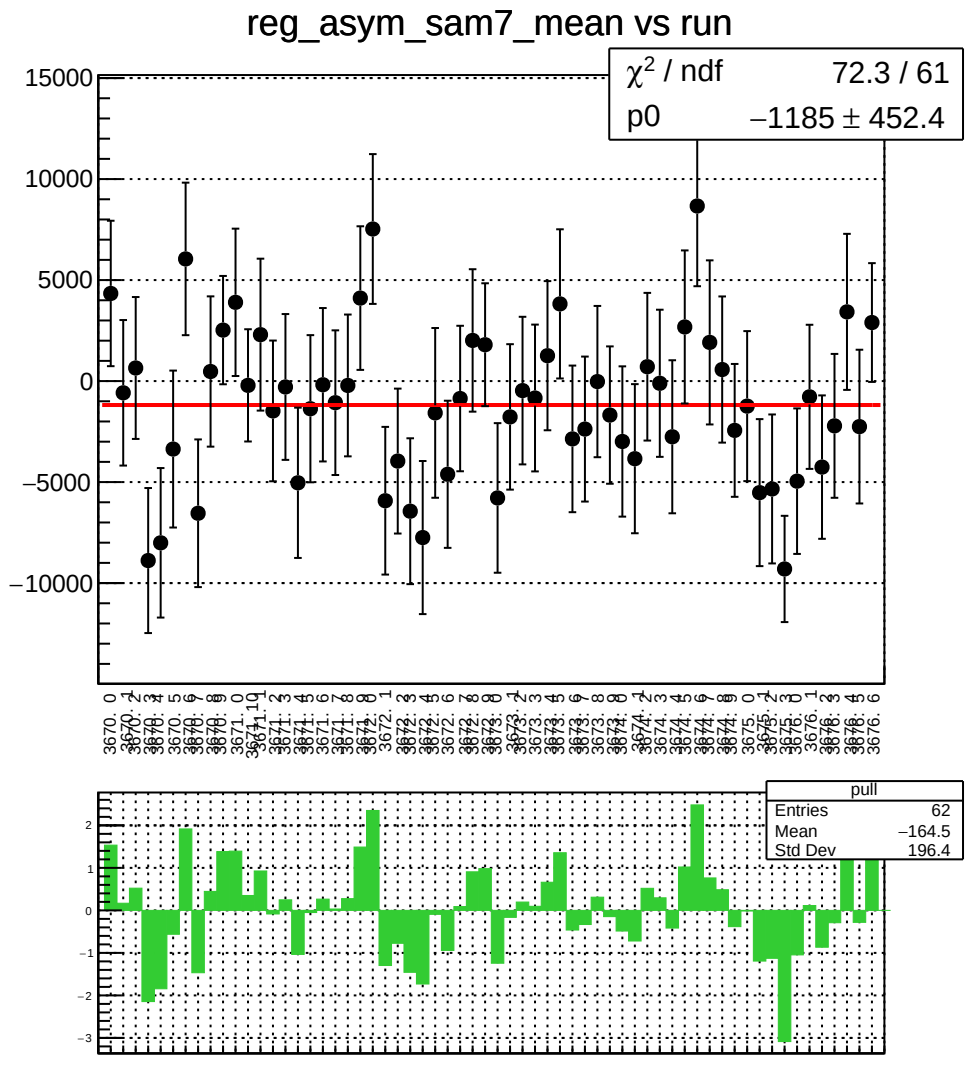

pull1D
Entries 62
Mean −0.001392
Std Dev 0.9414

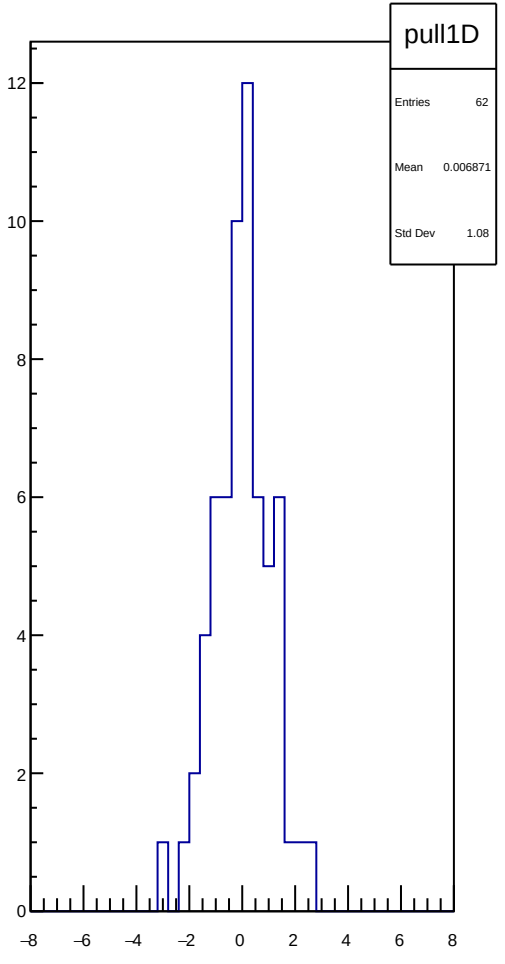

reg_asym_sam6_rms vs run
χ² / ndf 452.5 / 61
p0 654.3 ± 0.6022
720
700
680
660
640
620
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

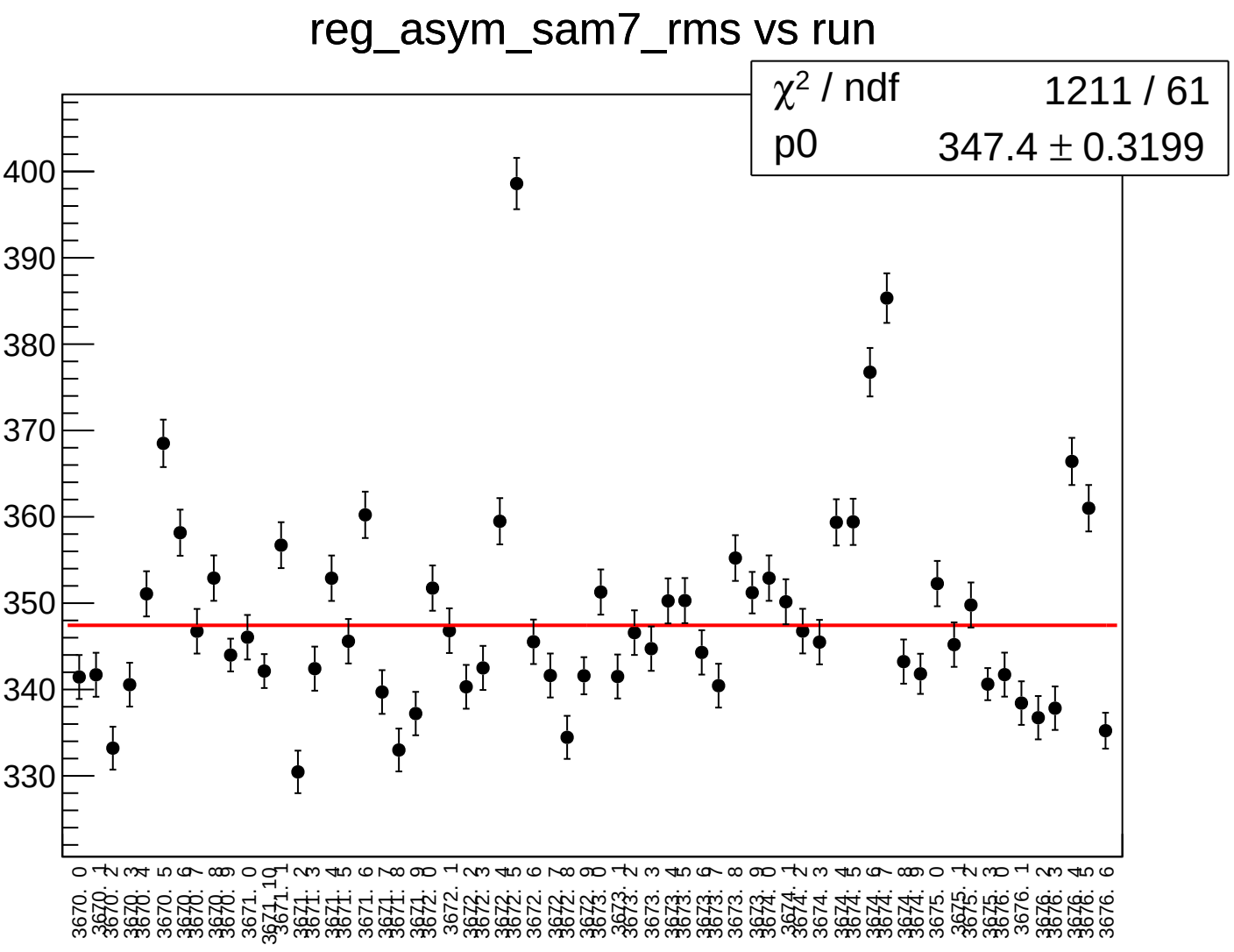

asym_sam6_correction_mean vs run
χ² / ndf 45.04 / 61
p0 3762 ± 5466
×10³
pull
Entries 62
Mean −94.24
Std Dev 121.1

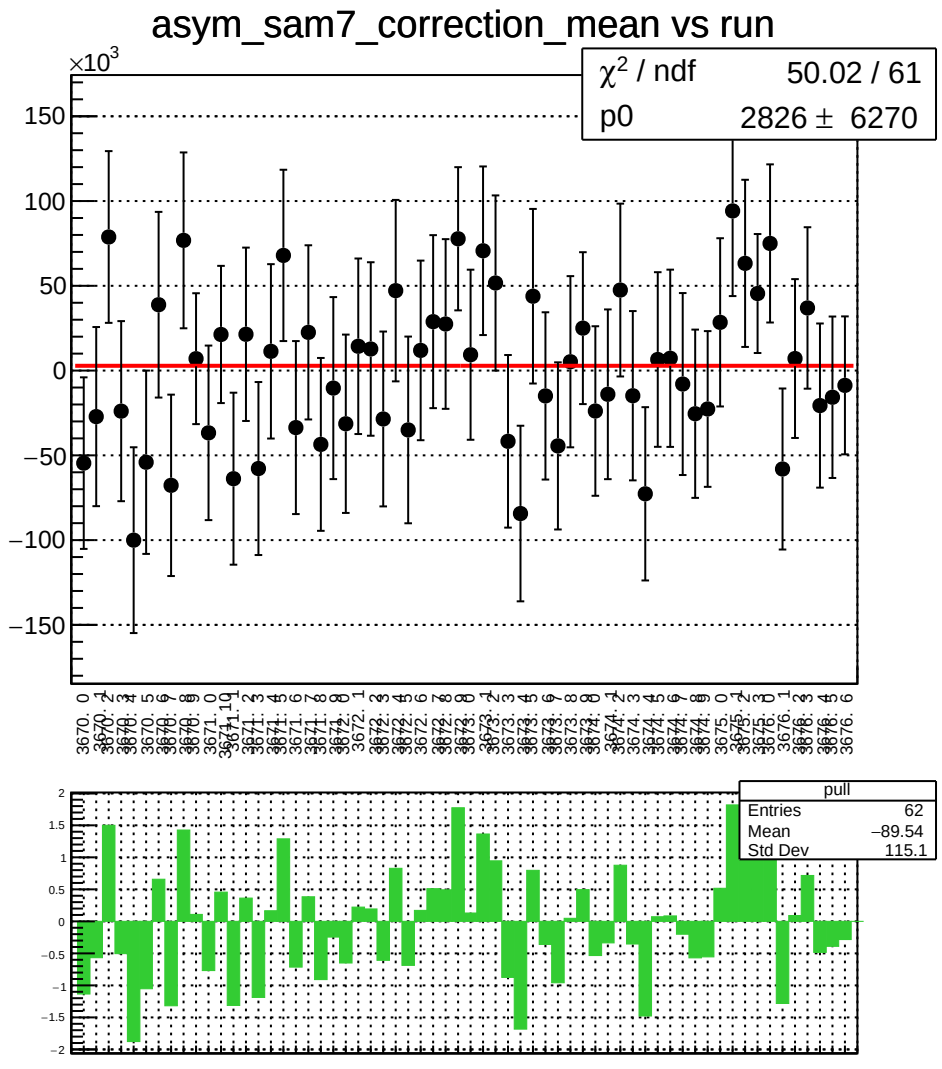

pull1D
Entries 62
Mean −0.02201
Std Dev 0.852

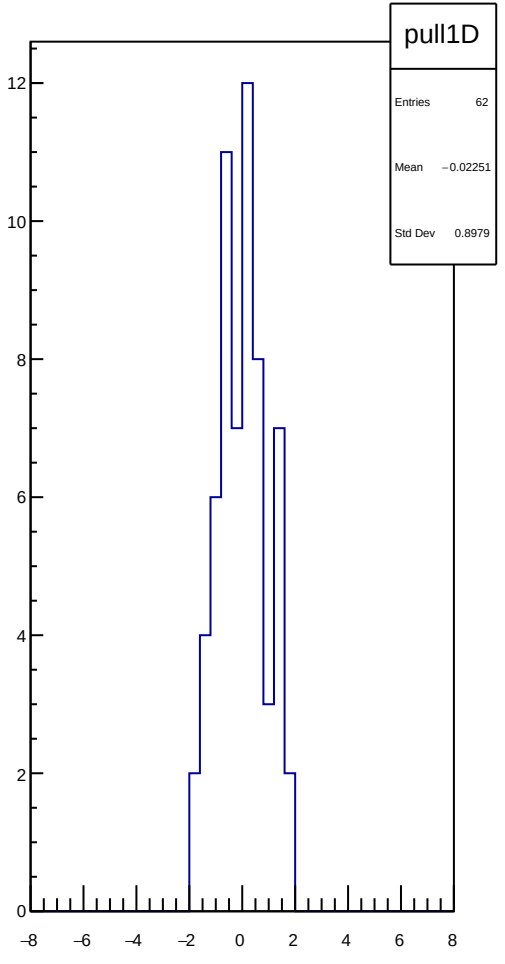

asym_sam6_correction_rms vs run
χ² / ndf 761.2 / 61
p0 4199 ± 3.865
4500
4400
4300
4200
4100
4000
3900
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

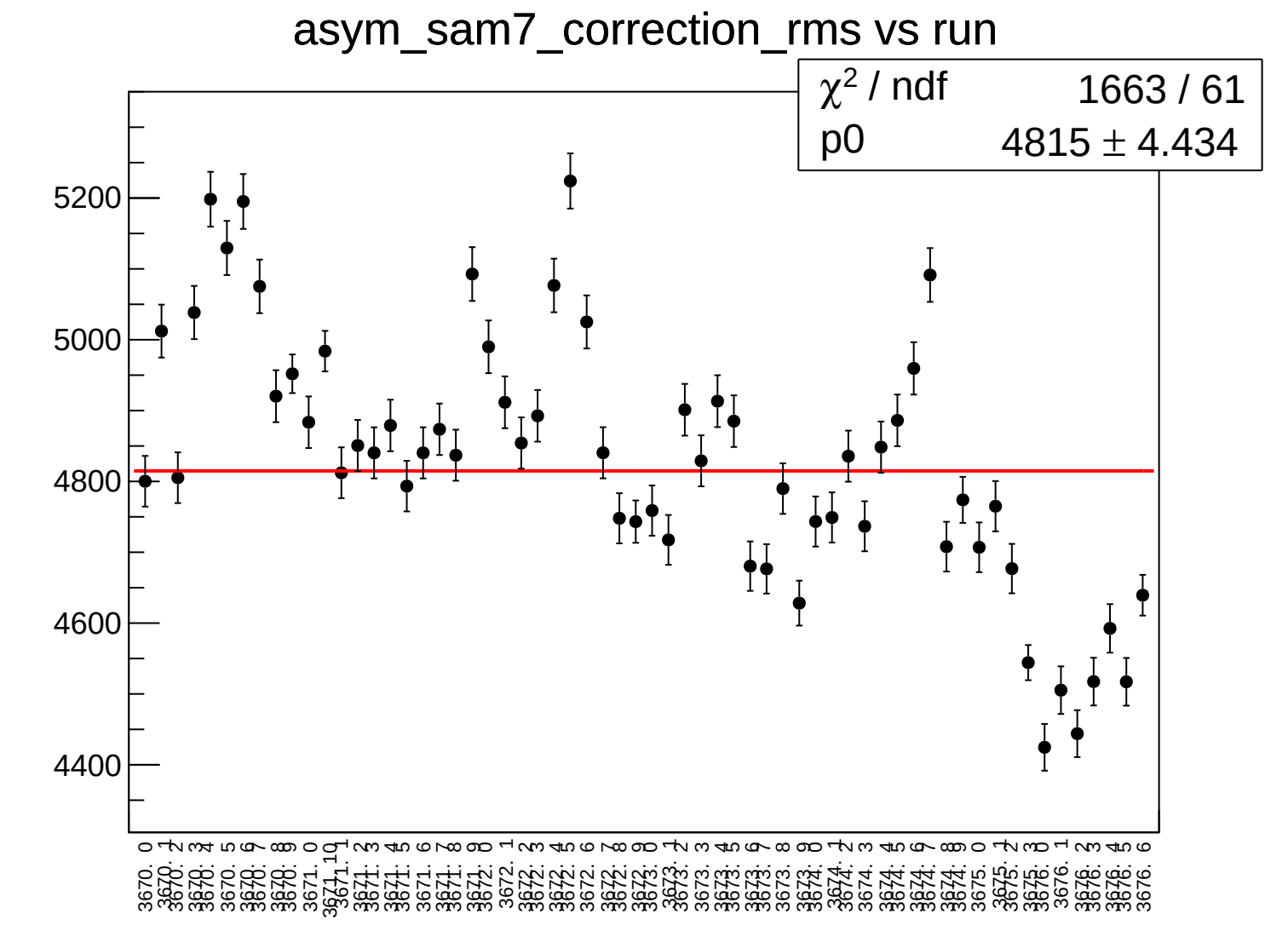

reg_asym_sam7_mean vs run
χ² / ndf 72.3 / 61
p0 −1185 ± 452.4
15000
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −164.5
Std Dev 196.4
2
1
0
−1
−2
−3

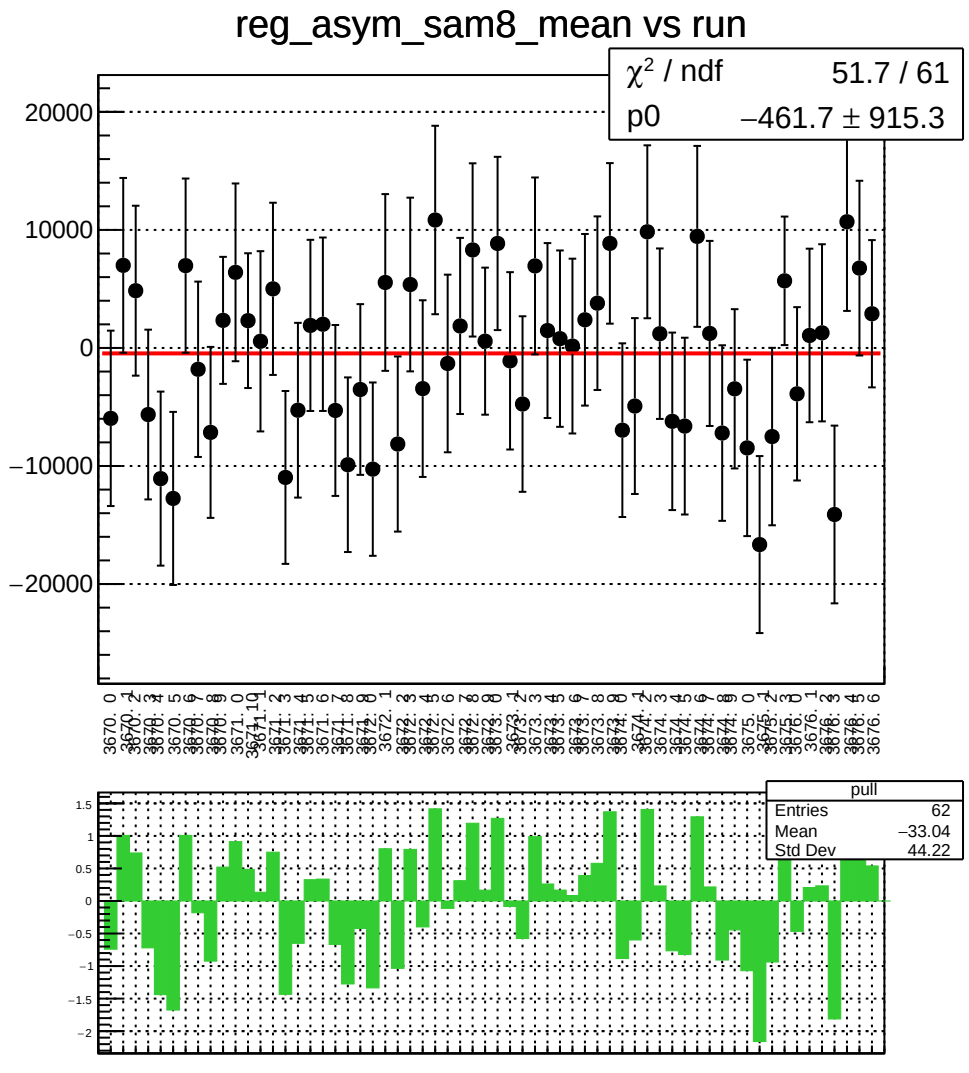

pull1D
Entries 62
Mean 0.006871
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

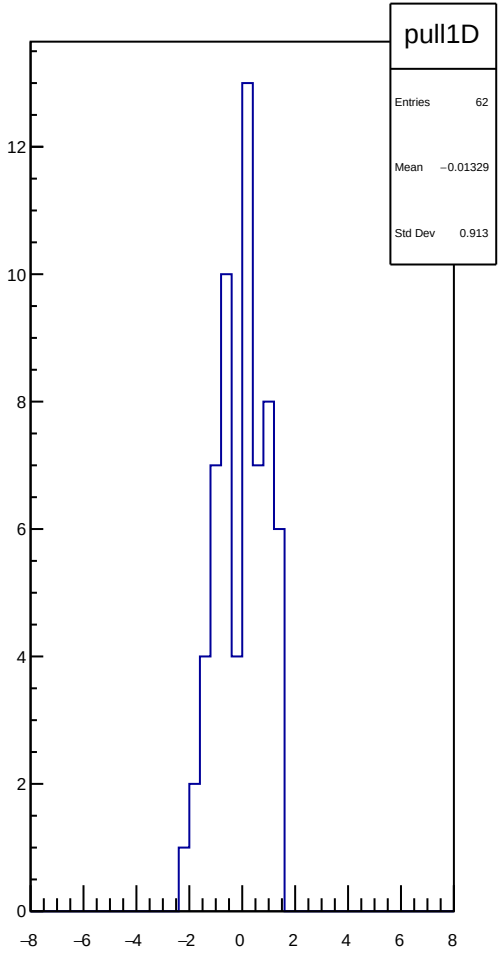

reg_asym_sam7_rms vs run
χ² / ndf 1211 / 61
p0 347.4 ± 0.3199
400
390
380
370
360
350
340
330
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6

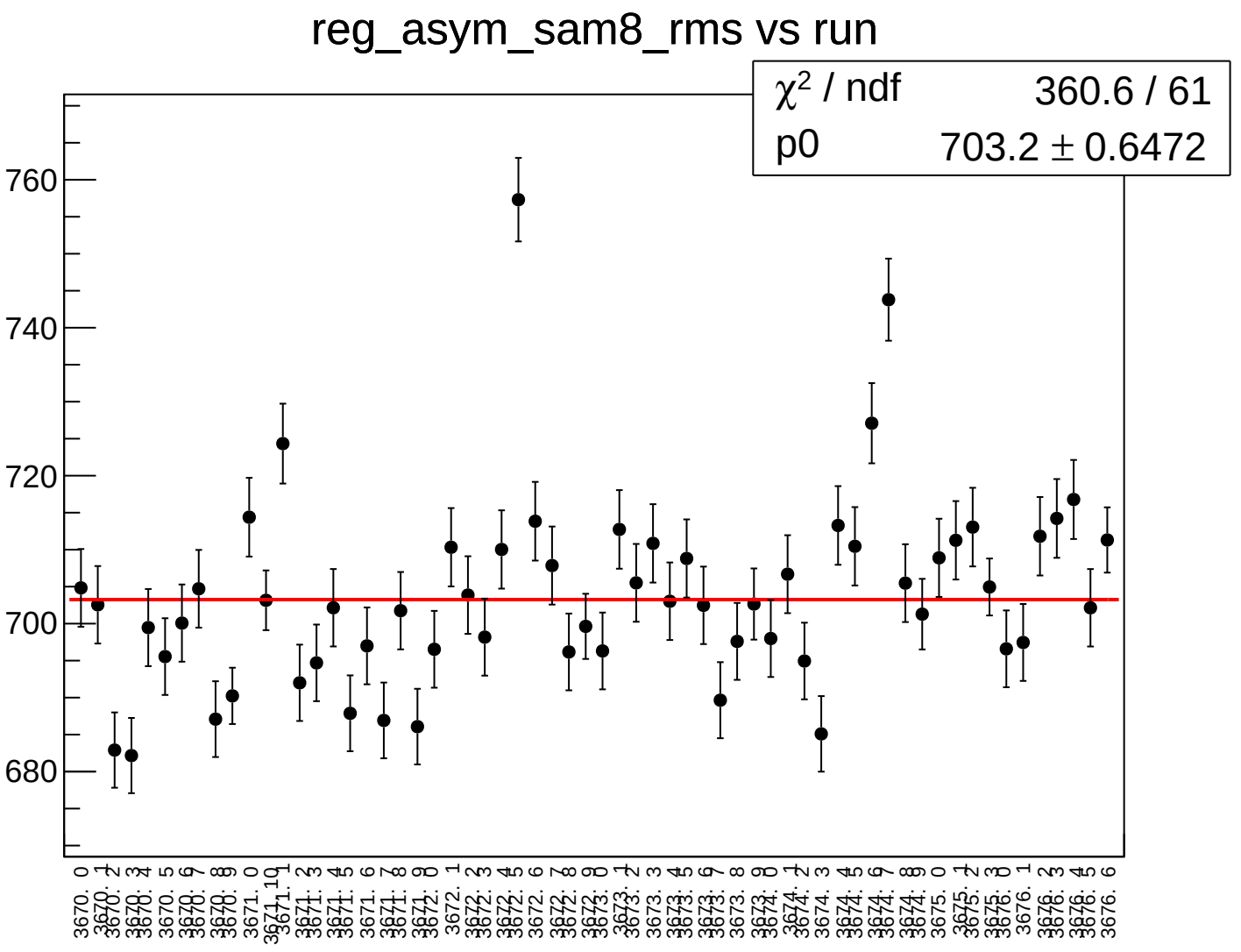

asym_sam7_correction_mean vs run
×10^3
χ² / ndf 50.02 / 61
p0 2826 ± 6270
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −89.54
Std Dev 115.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

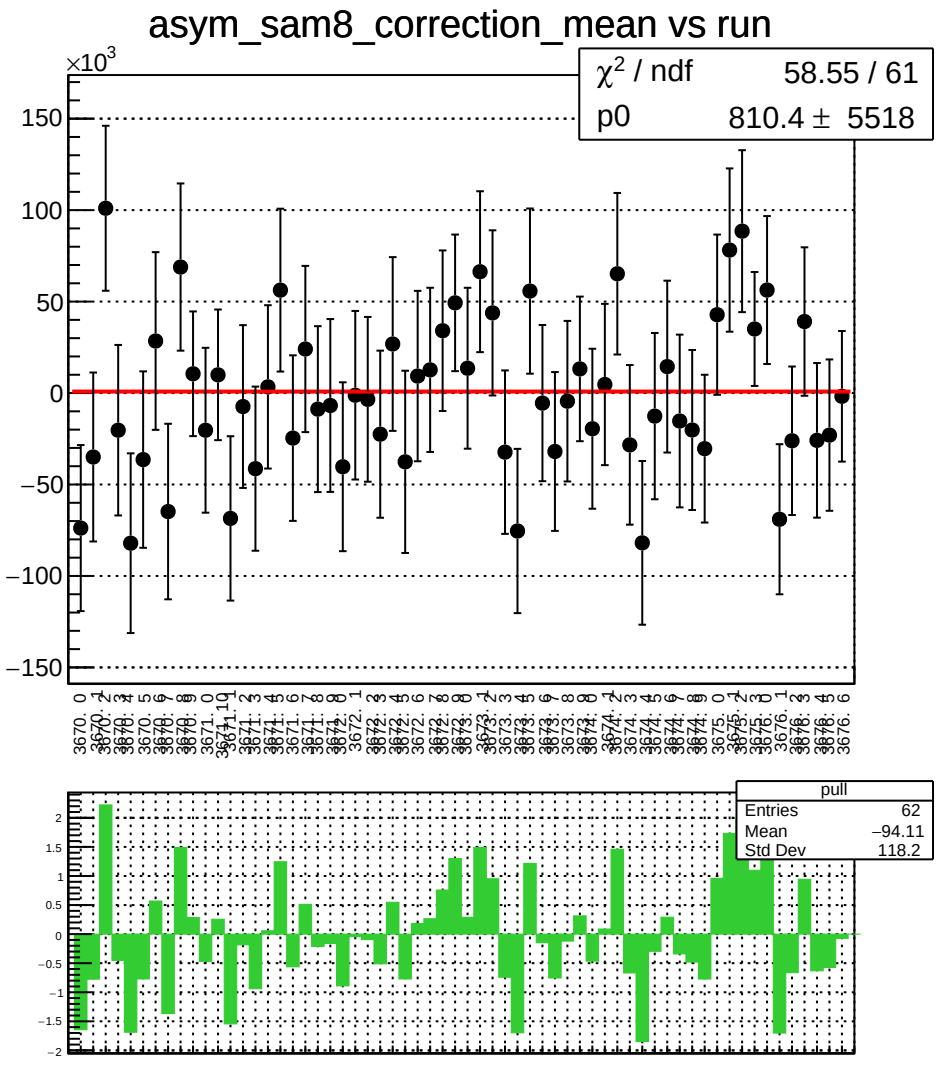

pull1D
Entries 62
Mean −0.02251
Std Dev 0.8979
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

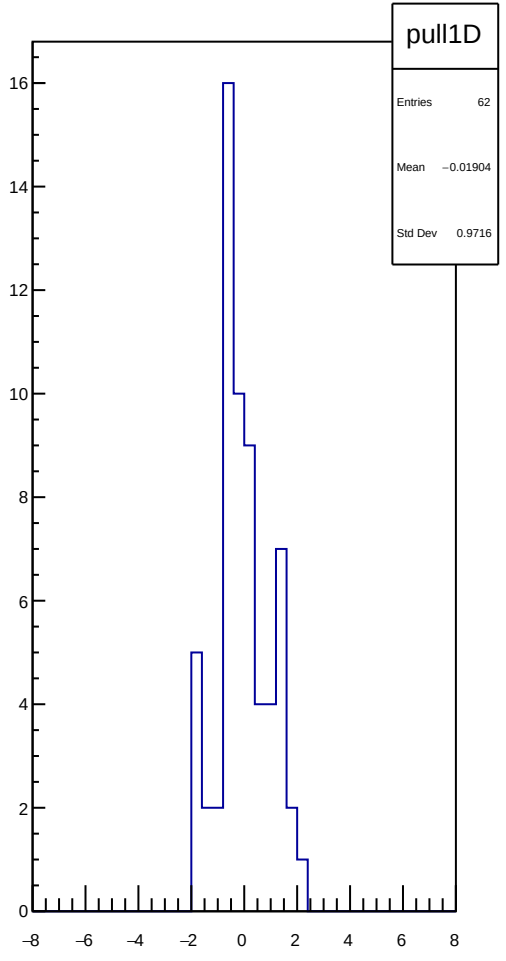

asym_sam7_correction_rms vs run
χ^2 / ndf 1663 / 61
p0 4815 ± 4.434
5200
5000
4800
4600
4400

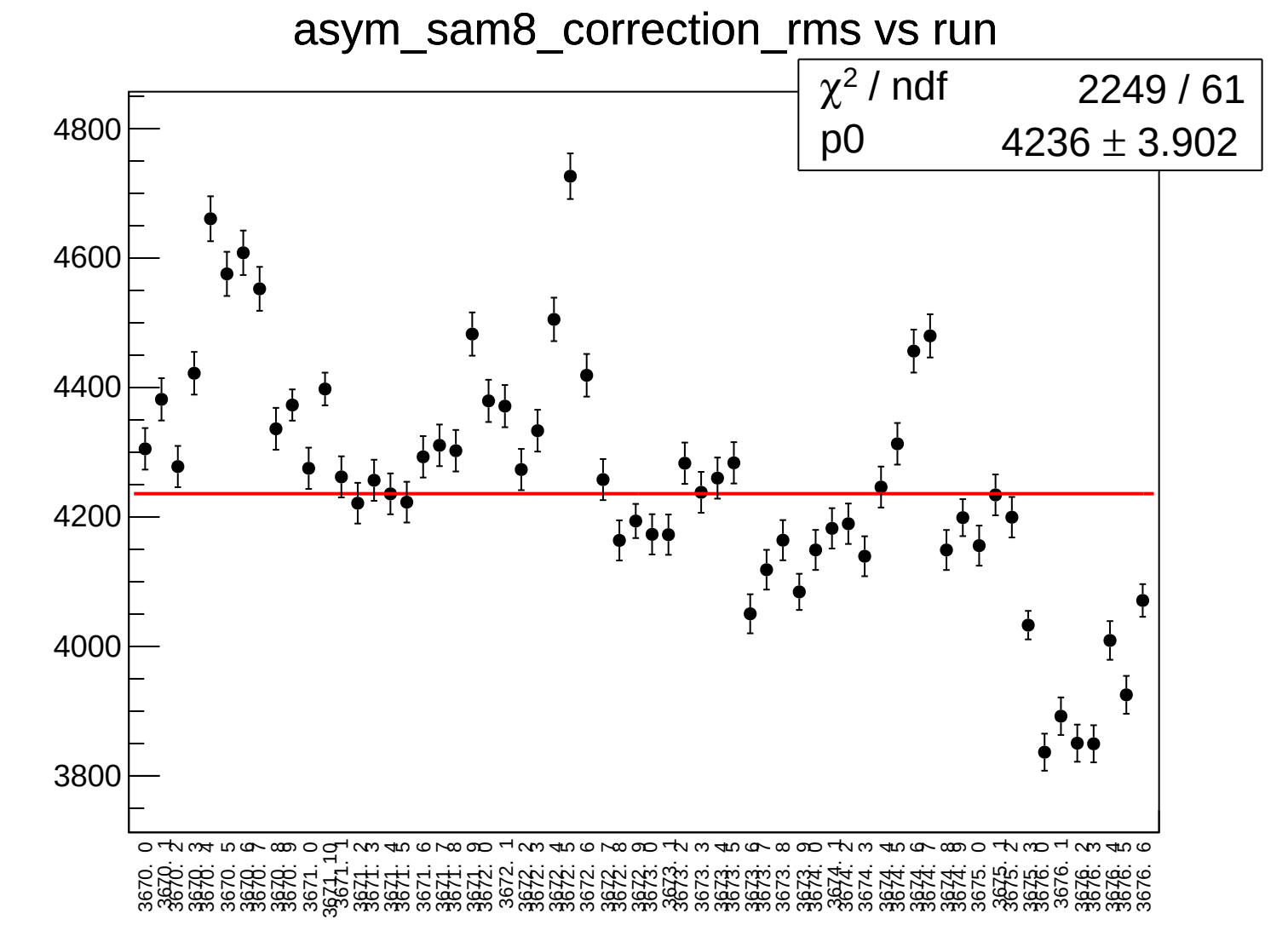

reg_asym_sam8_mean vs run
χ² / ndf 51.7 / 61
p0 −461.7 ± 915.3
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −33.04
Std Dev 44.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2

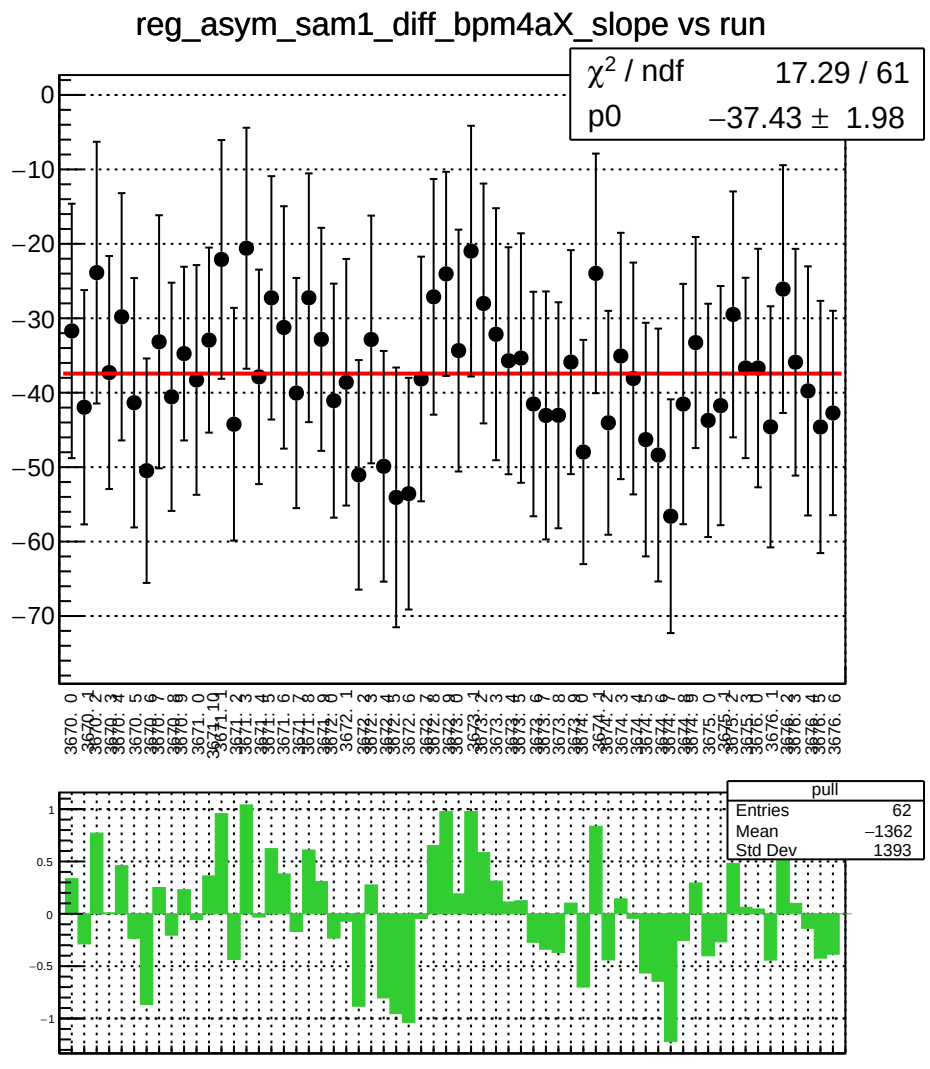

pull1D
Entries 62
Mean −0.01329
Std Dev 0.913
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

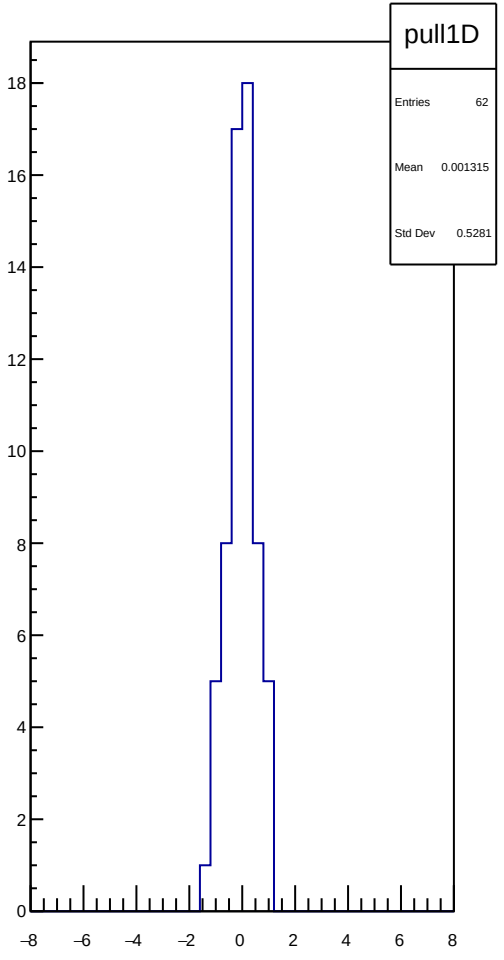

reg_asym_sam8_rms vs run
χ² / ndf 360.6 / 61
p0 703.2 ± 0.6472
760
740
720
700
680

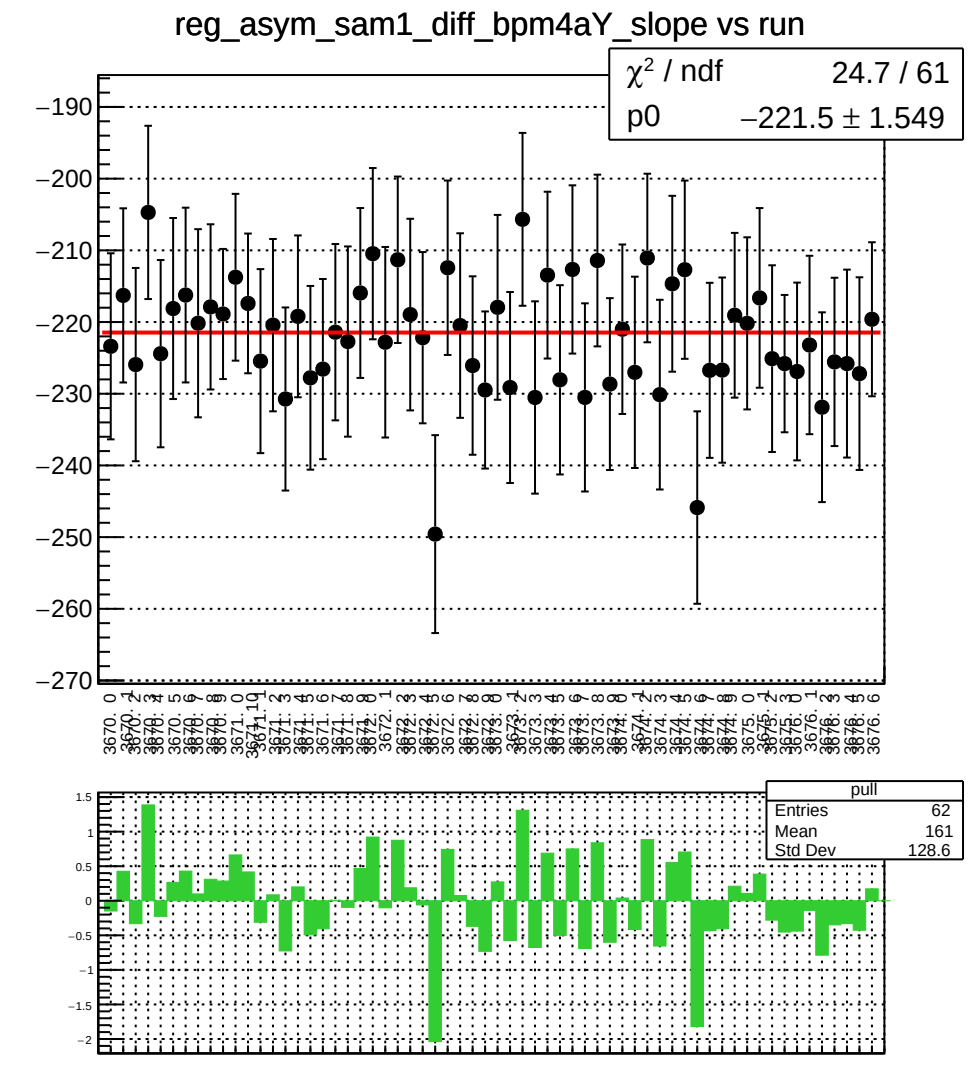

asym_sam8_correction_mean vs run
×10^3
χ² / ndf 58.55 / 61
p0 810.4 ± 5518
pull
Entries 62
Mean −94.11
Std Dev 118.2

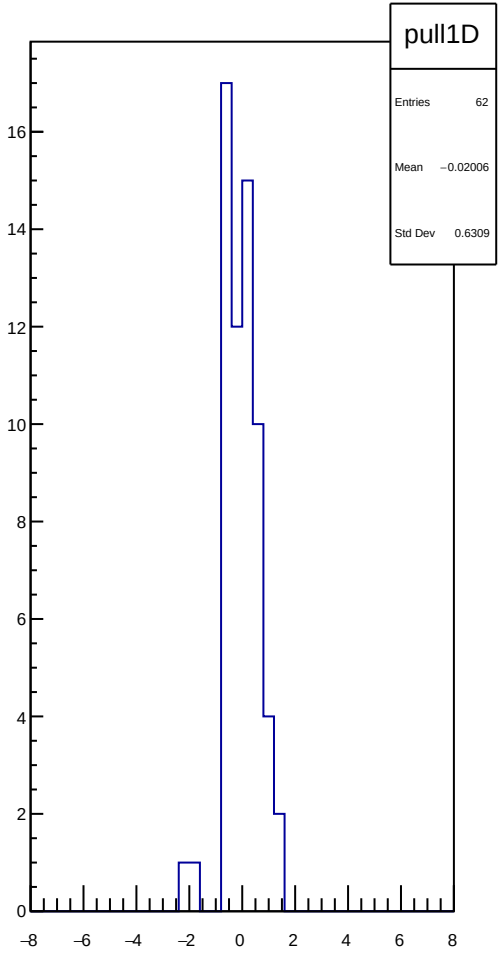

pull1D
Entries 62
Mean −0.01904
Std Dev 0.9716

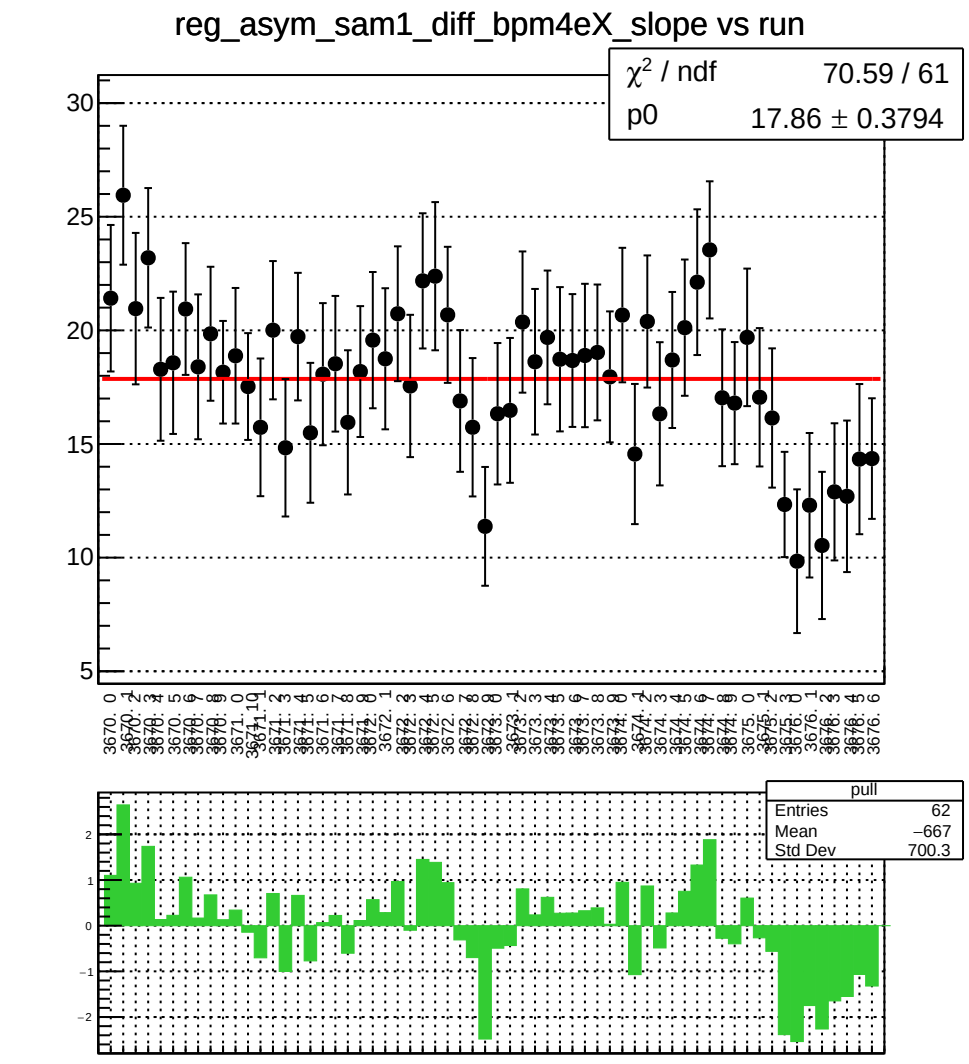

asym_sam8_correction_rms vs run
χ² / ndf 2249 / 61
p0 4236 ± 3.902
4800
4600
4400
4200
4000
3800

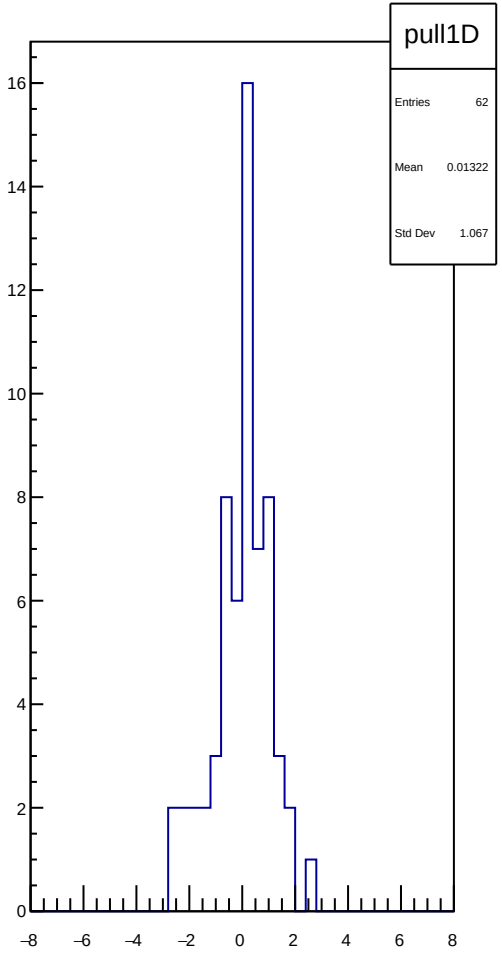

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 17.29 / 61
p0 −37.43 ± 1.98
pull
Entries 62
Mean −1362
Std Dev 1393

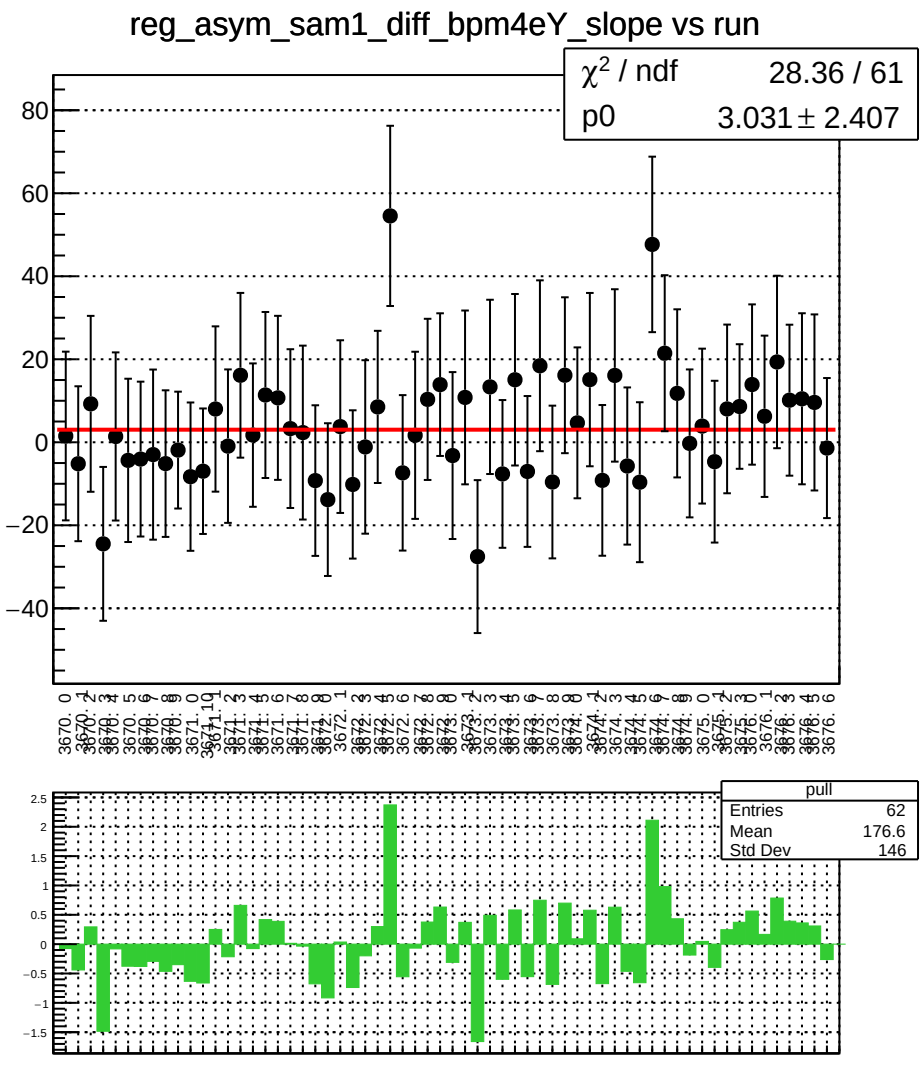

pull1D
Entries 62
Mean 0.001315
Std Dev 0.5281

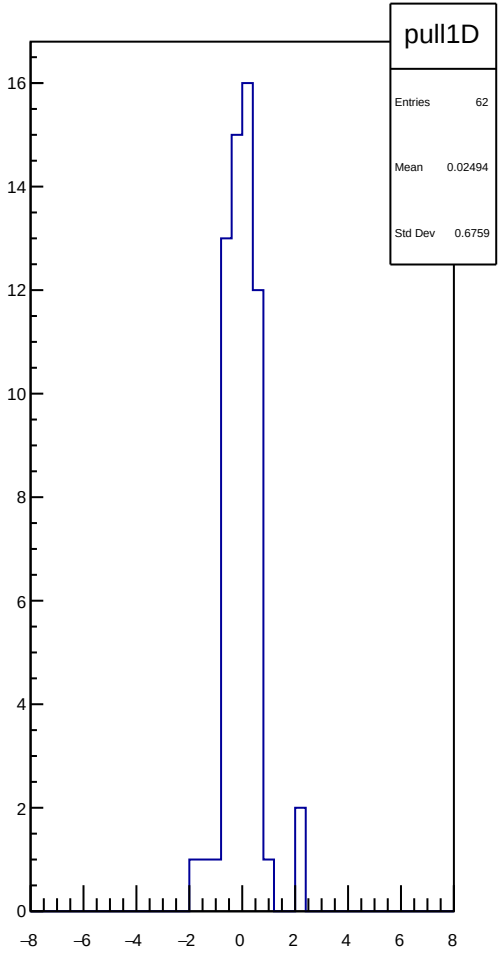

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 24.7 / 61
p0 −221.5 ± 1.549
pull
Entries 62
Mean 161
Std Dev 128.6

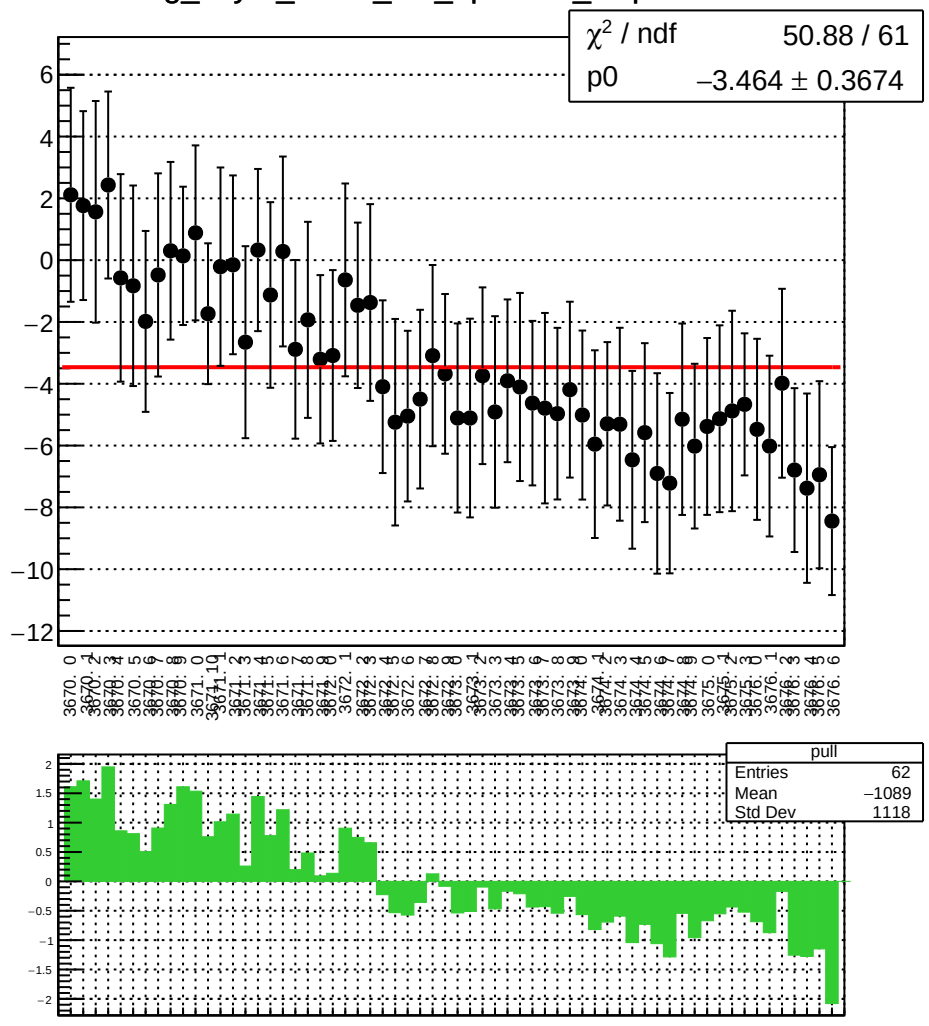

pull1D
Entries 62
Mean −0.02006
Std Dev 0.6309

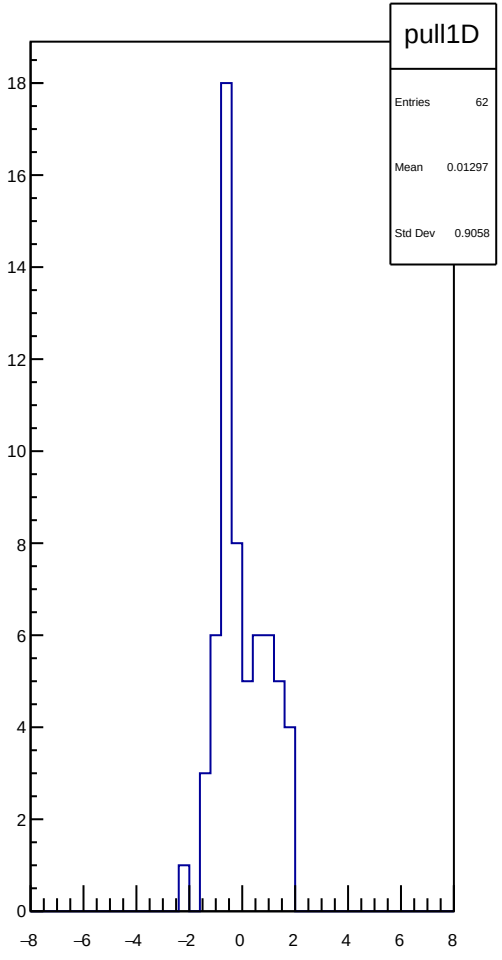

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 70.59 / 61
p0 17.86 ± 0.3794
pull
Entries 62
Mean −667
Std Dev 700.3

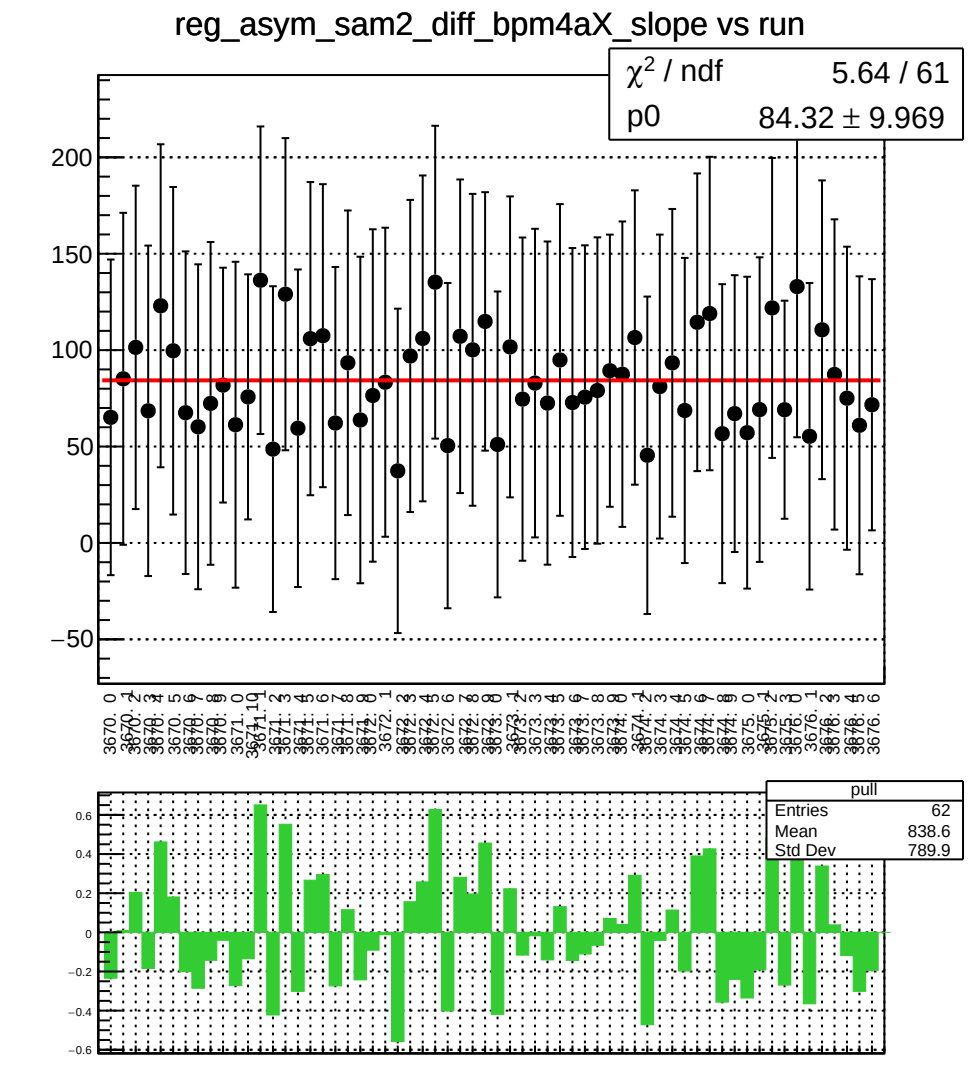

pull1D
Entries 62
Mean 0.01322
Std Dev 1.067

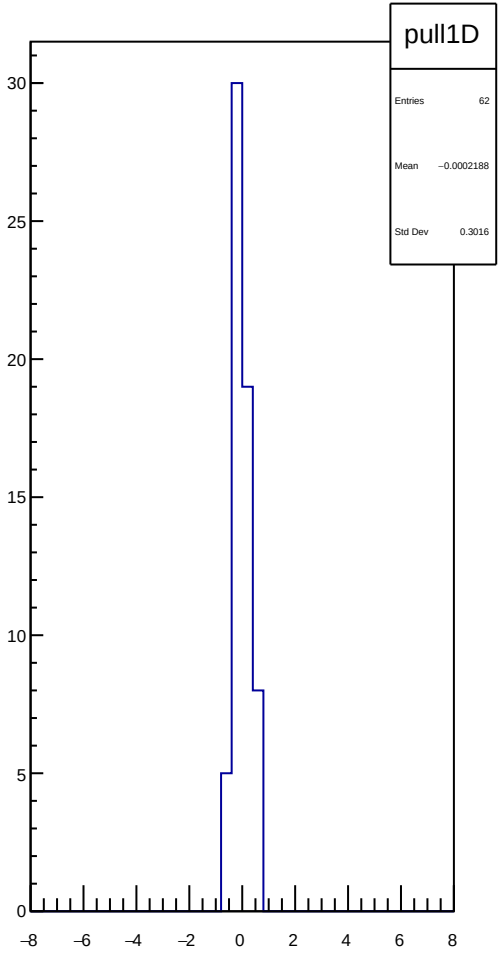

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 28.36 / 61
p0 3.031 ± 2.407
pull
Entries 62
Mean 176.6
Std Dev 146

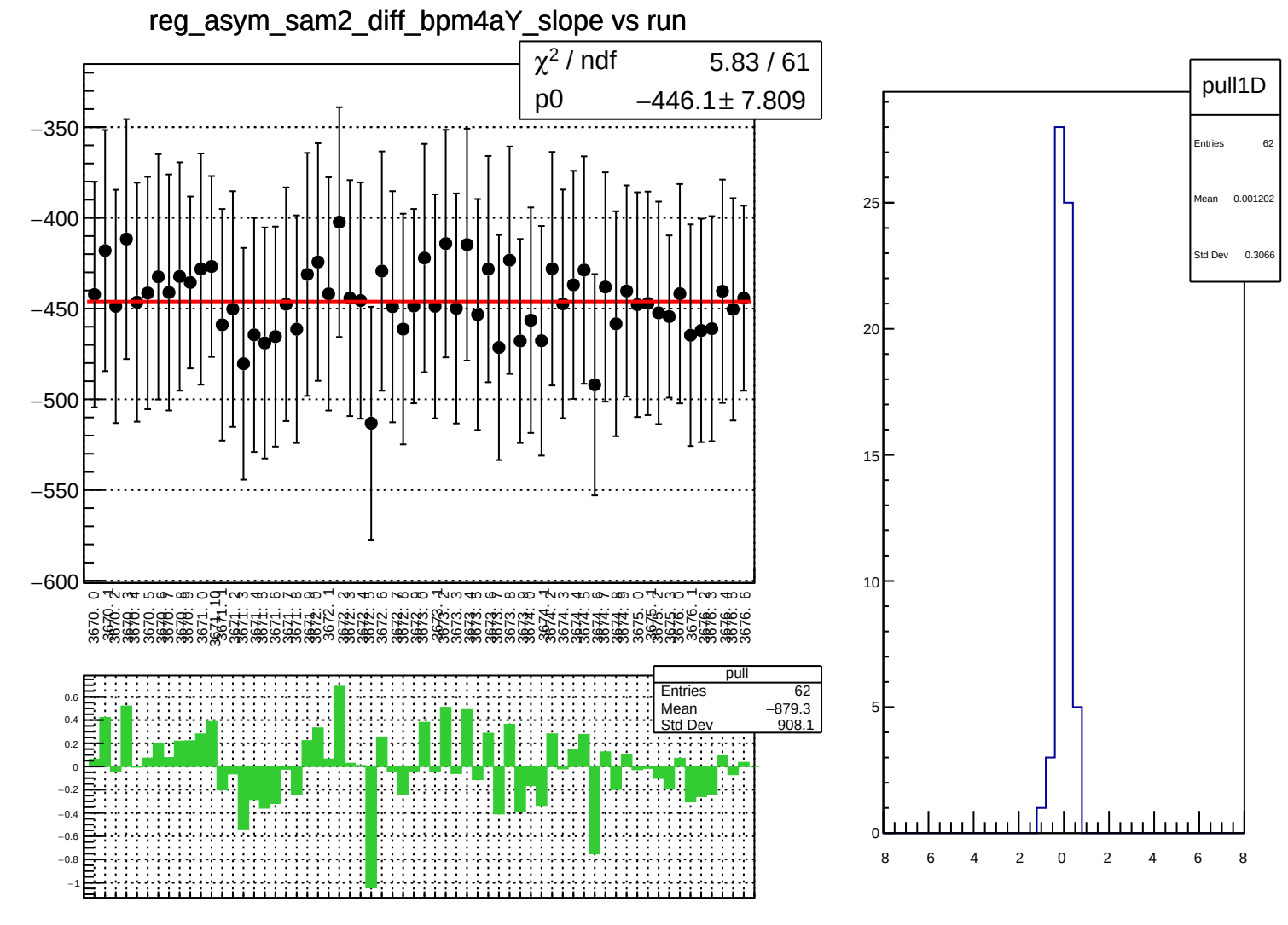

pull1D
Entries 62
Mean 0.02494
Std Dev 0.6759

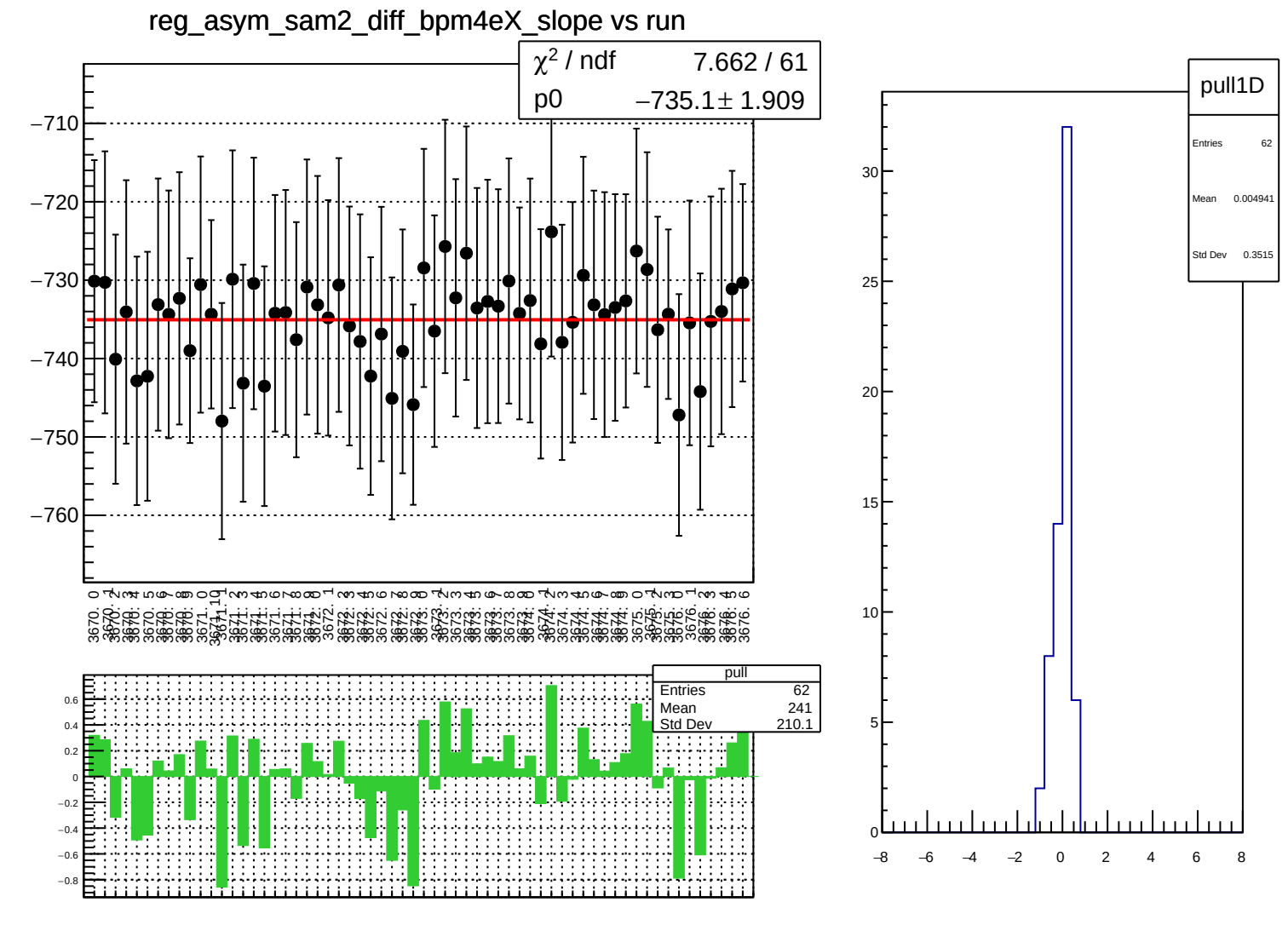

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 50.88 / 61
p0 −3.464 ± 0.3674
pull
Entries 62
Mean −1089
Std Dev 1118

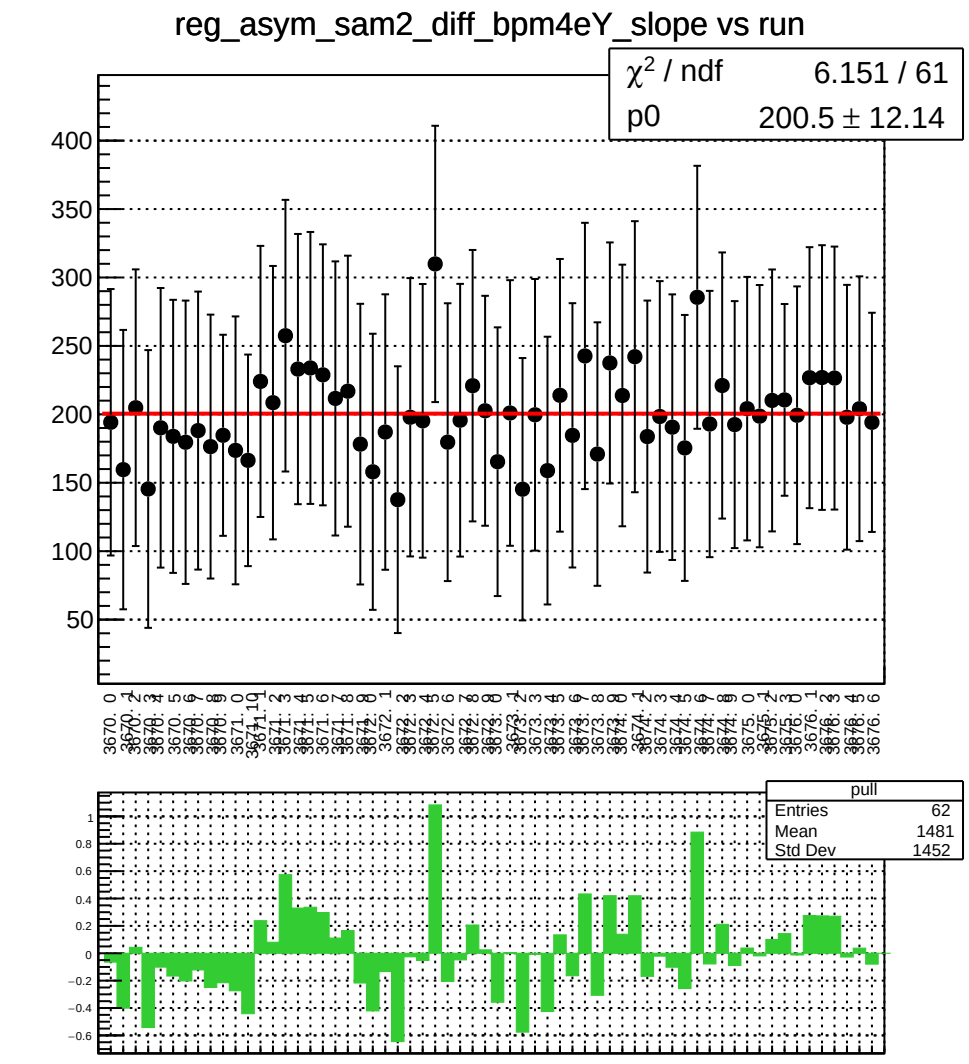

pull1D
Entries 62
Mean 0.01297
Std Dev 0.9058

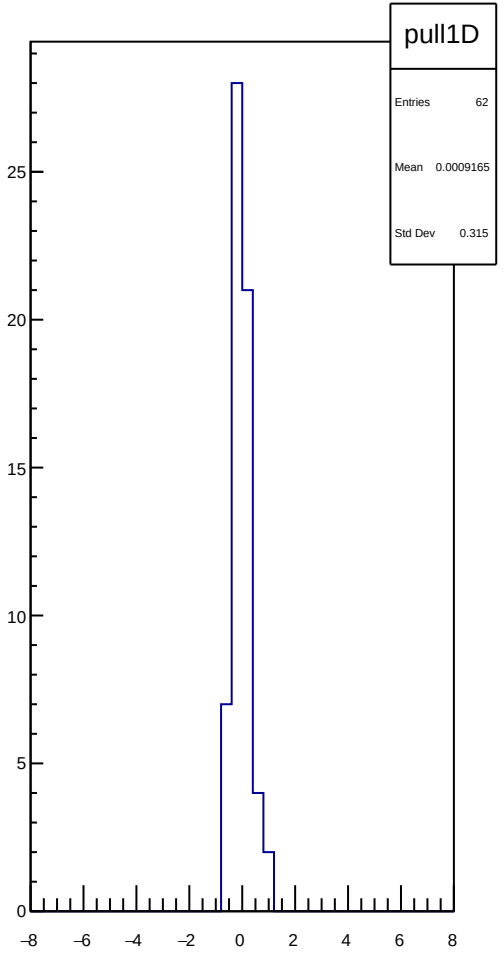

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 5.64 / 61
p0 84.32 ± 9.969
pull
Entries 62
Mean 838.6
Std Dev 789.9

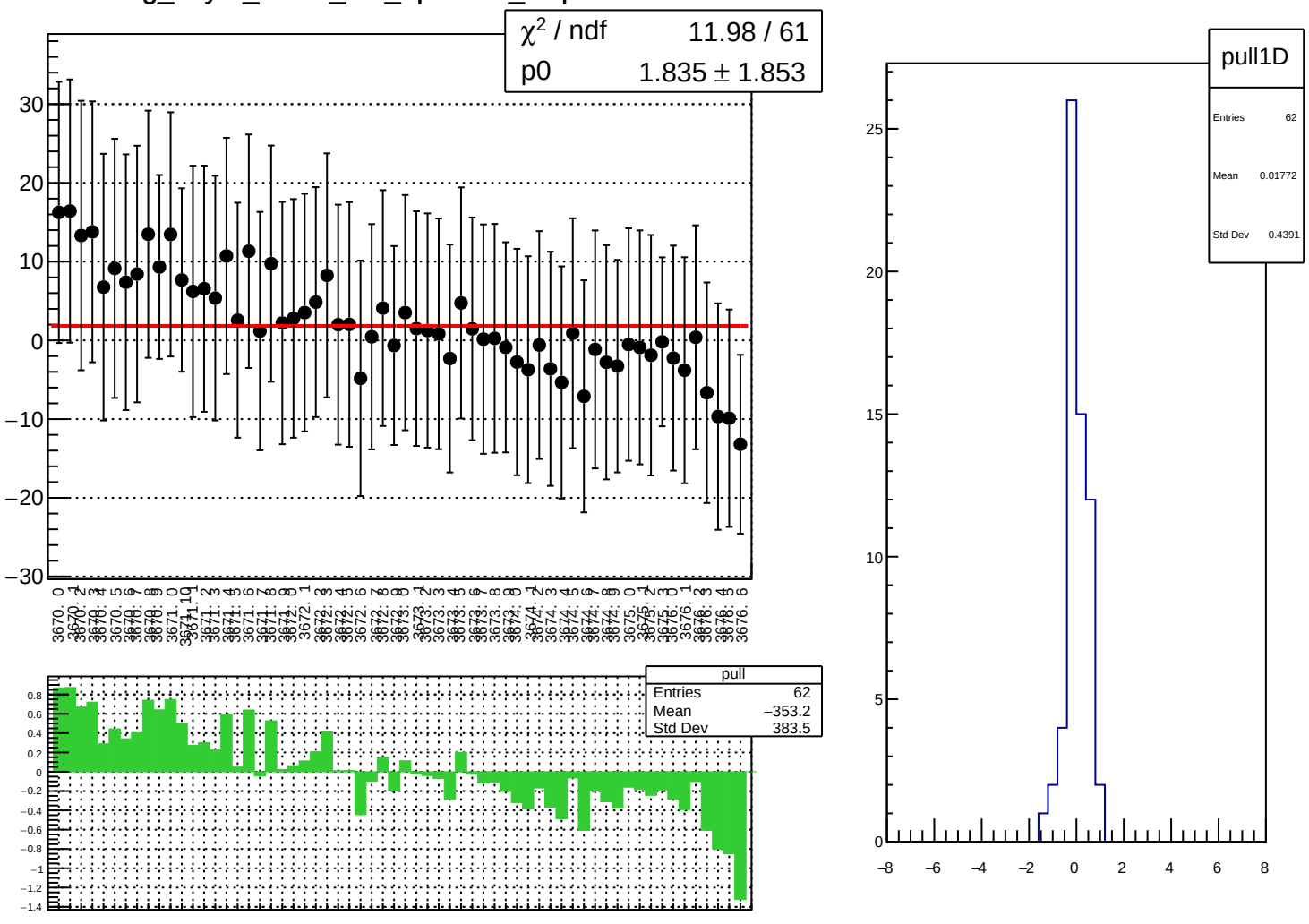

pull1D
Entries 62
Mean −0.0002188
Std Dev 0.3016

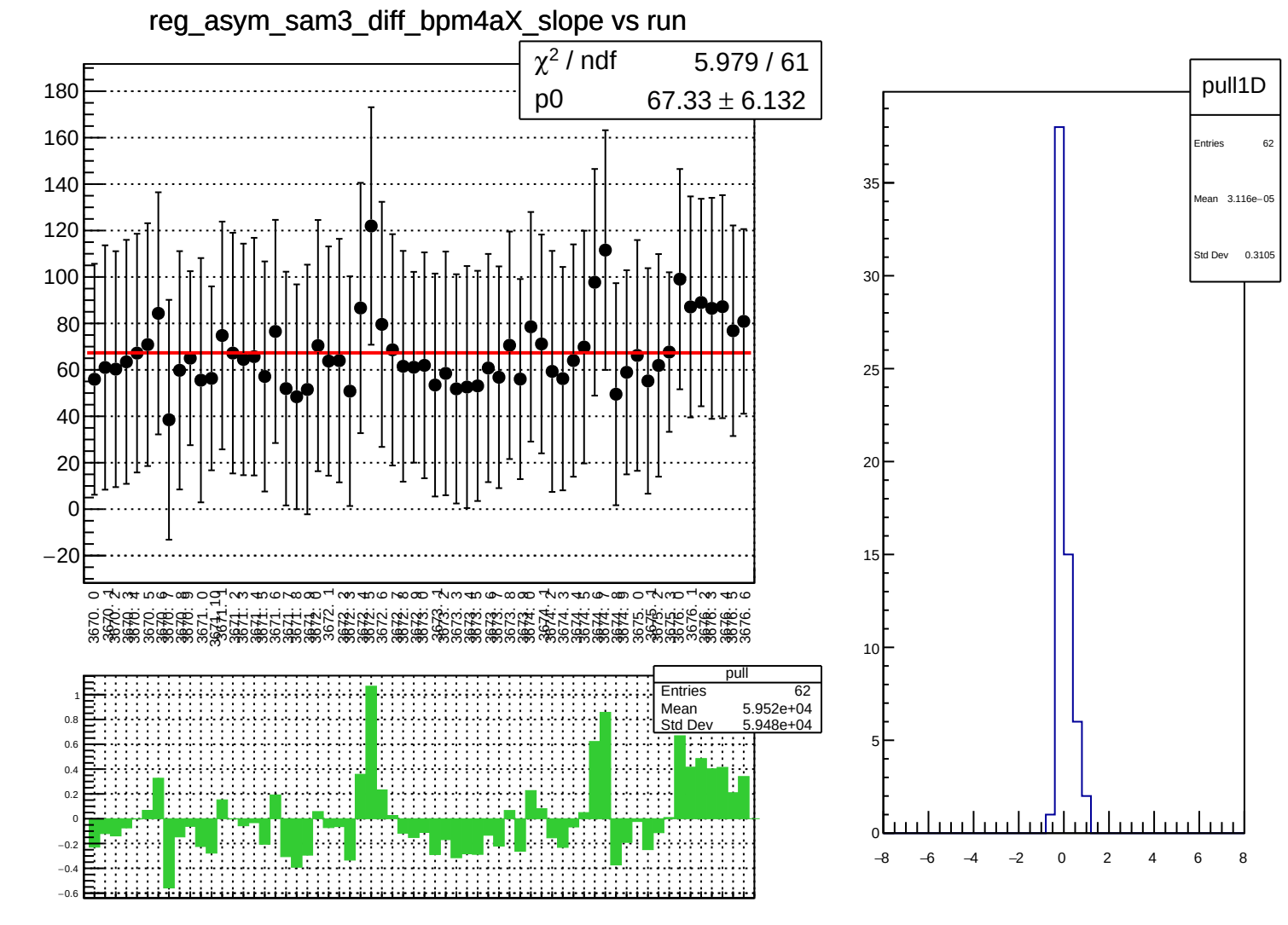

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 5.83 / 61
p0 −446.1± 7.809
pull
Entries 62
Mean −879.3
Std Dev 908.1
pull1D
Entries 62
Mean 0.001202
Std Dev 0.3066

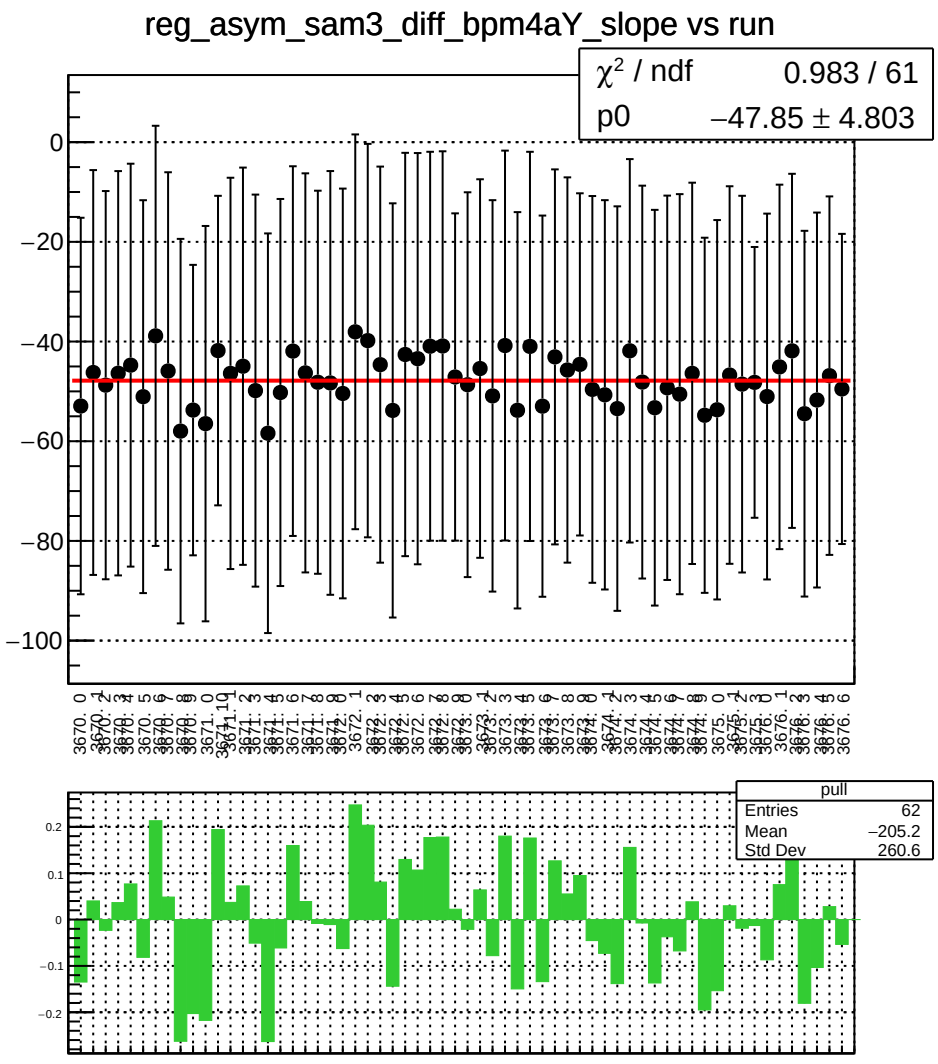

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 7.662 / 61
p0 −735.1± 1.909
−710
−720
−730
−740
−750
−760
pull
Entries 62
Mean 241
Std Dev 210.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 62
Mean 0.004941
Std Dev 0.3515
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

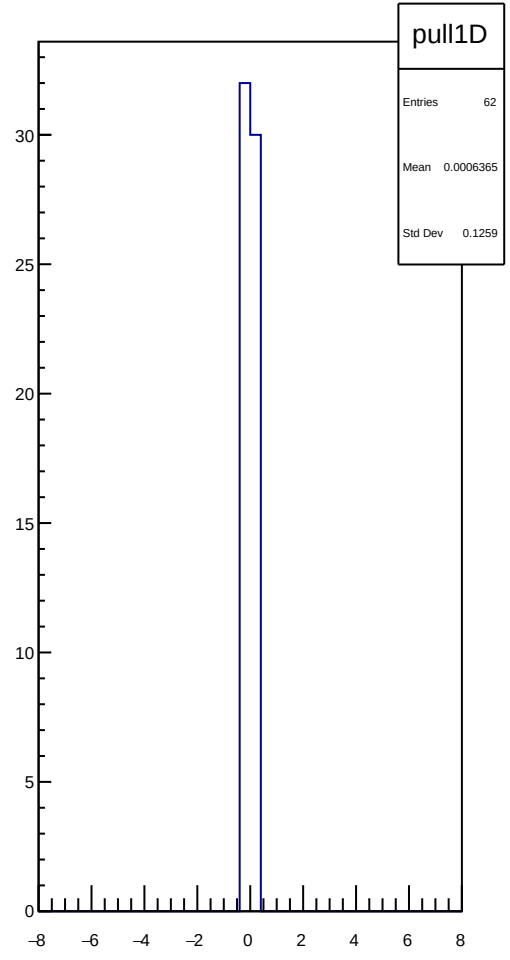

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 6.151 / 61
p0 200.5 ± 12.14
pull
Entries 62
Mean 1481
Std Dev 1452

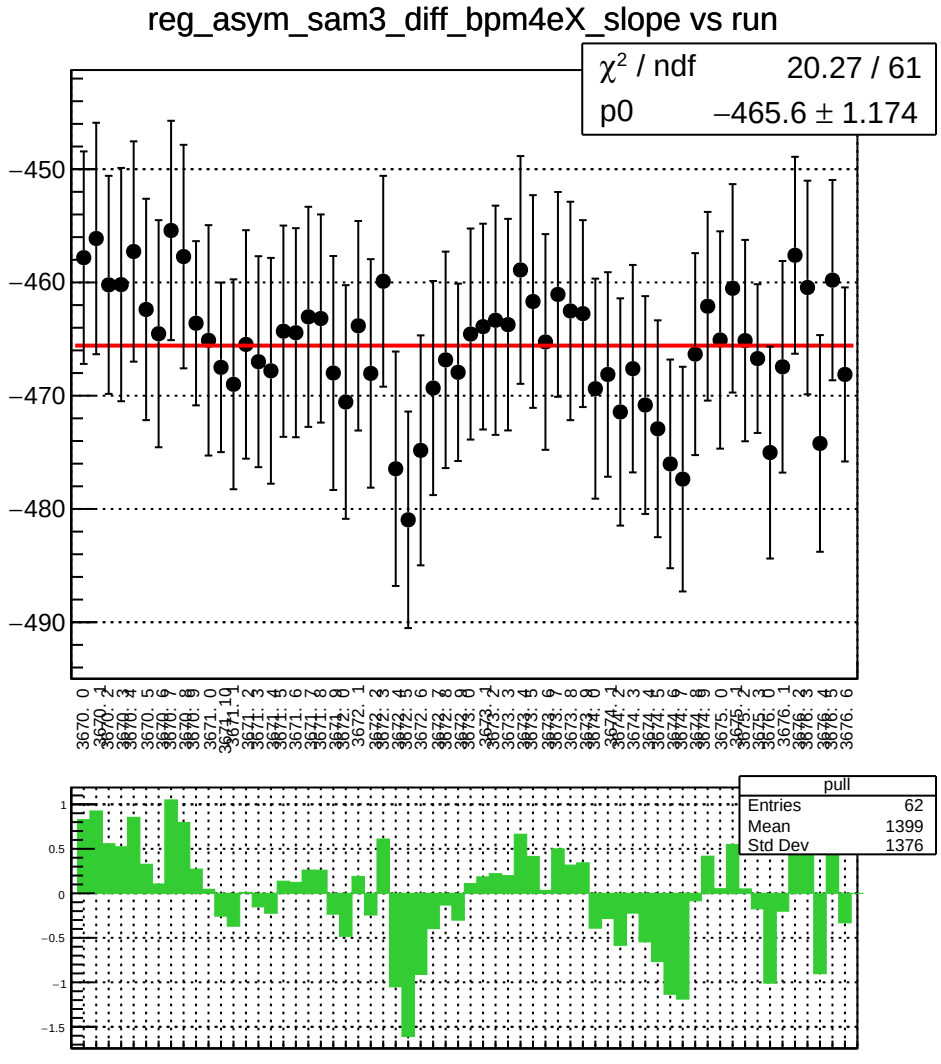

pull1D
Entries 62
Mean 0.0009165
Std Dev 0.315

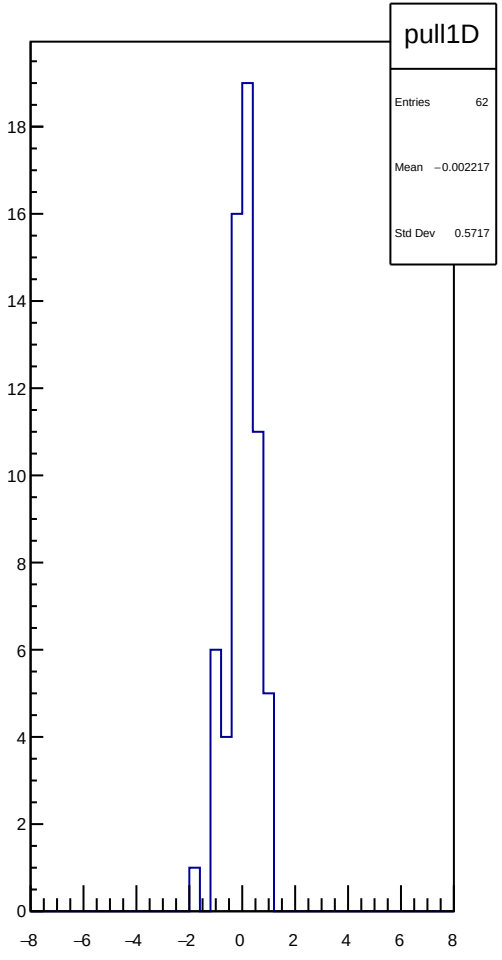

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 11.98 / 61
p0 1.835 ± 1.853
pull
Entries 62
Mean −353.2
Std Dev 383.5
pull1D
Entries 62
Mean 0.01772
Std Dev 0.4391

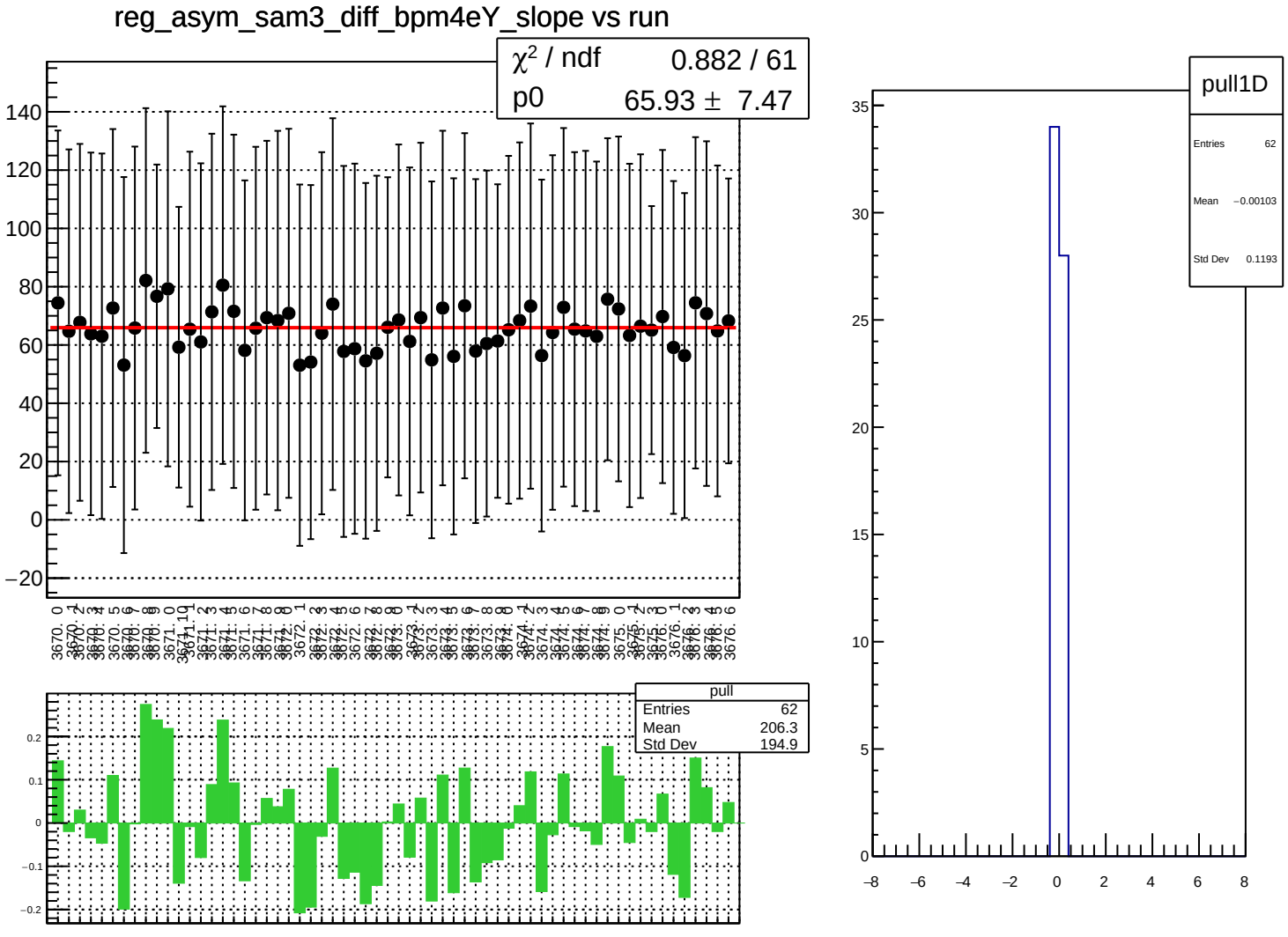

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 5.979 / 61
p0 67.33 ± 6.132
pull
Entries 62
Mean 5.952e+04
Std Dev 5.948e+04
pull1D
Entries 62
Mean 3.116e−05
Std Dev 0.3105

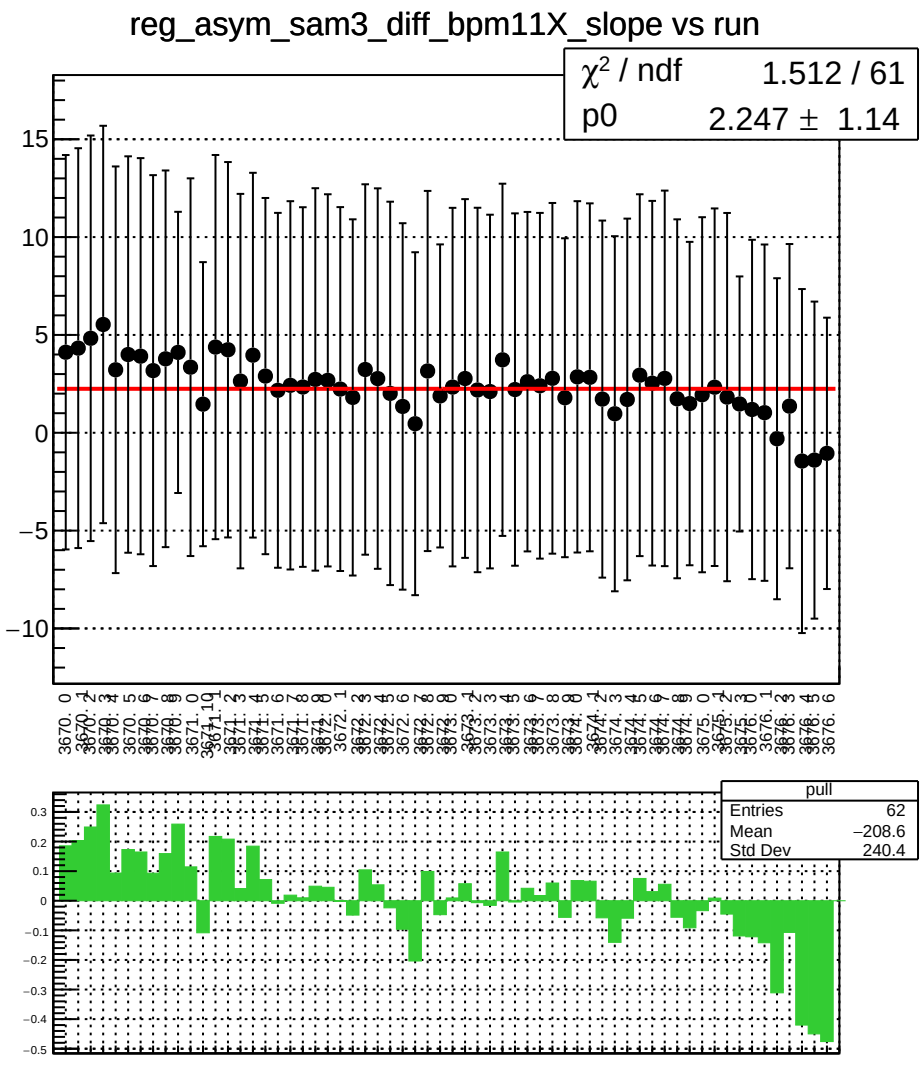

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.983 / 61
p0 −47.85 ± 4.803
pull
Entries 62
Mean −205.2
Std Dev 260.6

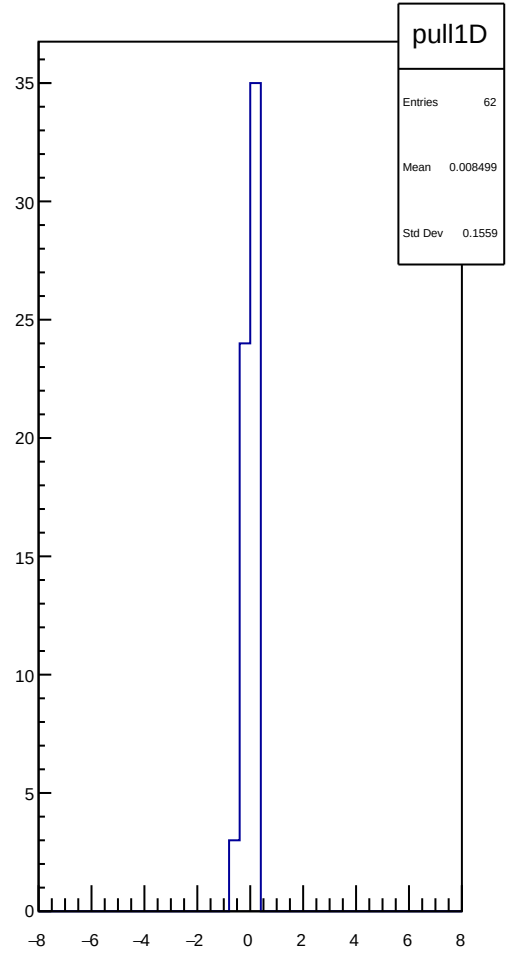

pull1D
Entries 62
Mean 0.0006365
Std Dev 0.1259

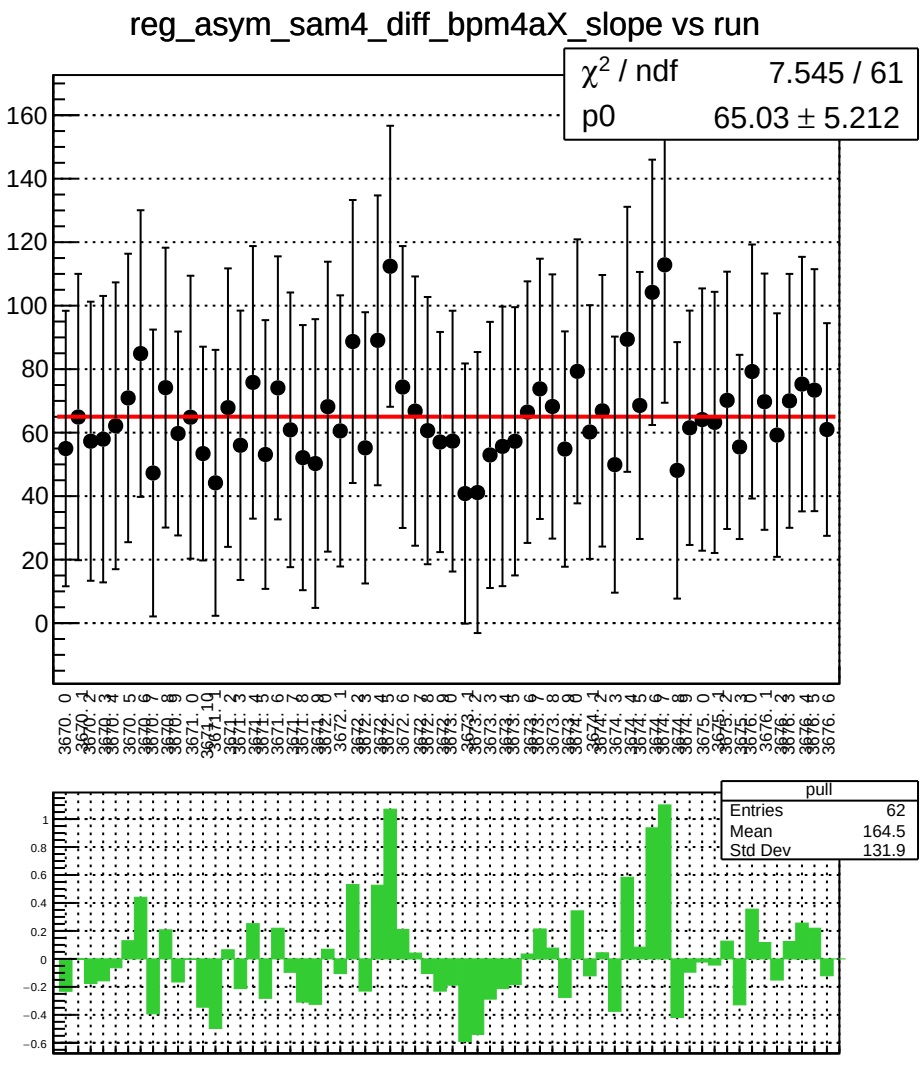

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 20.27 / 61
p0 −465.6 ± 1.174
pull
Entries 62
Mean 1399
Std Dev 1376

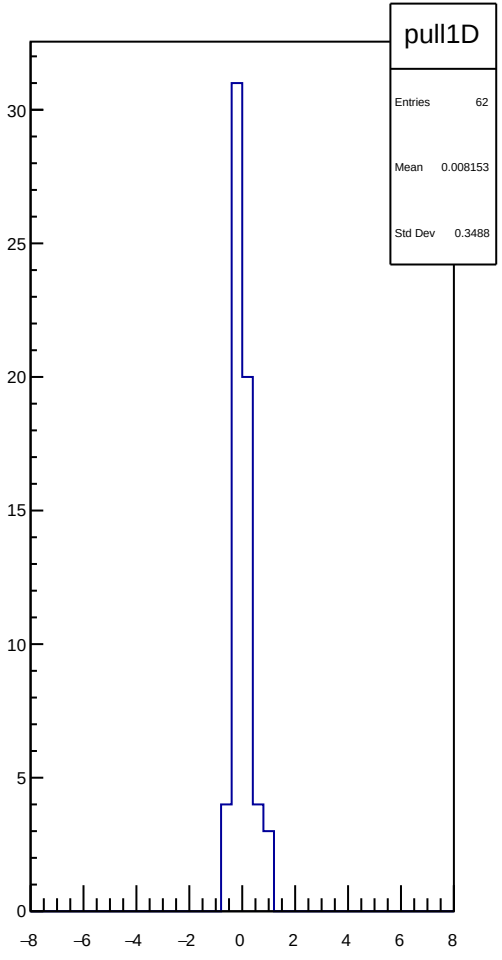

pull1D
Entries 62
Mean −0.002217
Std Dev 0.5717

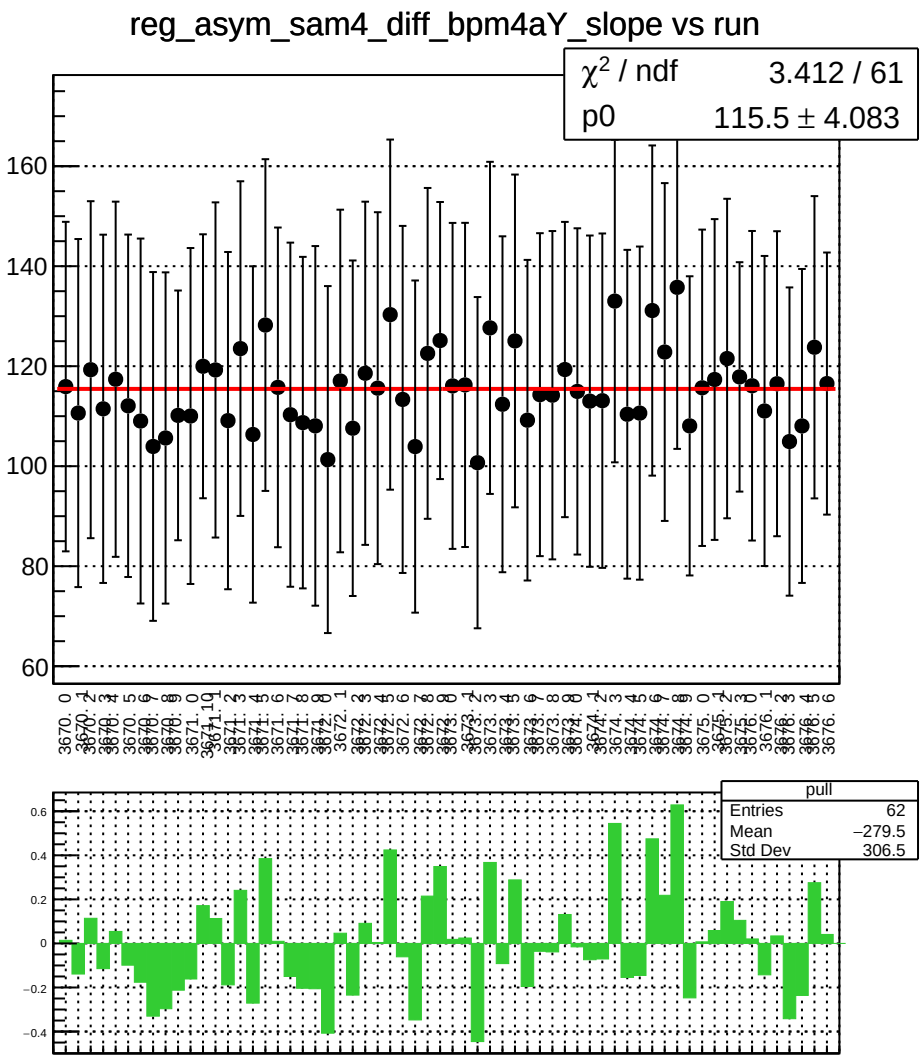

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.882 / 61
p0 65.93 ± 7.47
pull
Entries 62
Mean 206.3
Std Dev 194.9
pull1D
Entries 62
Mean −0.00103
Std Dev 0.1193

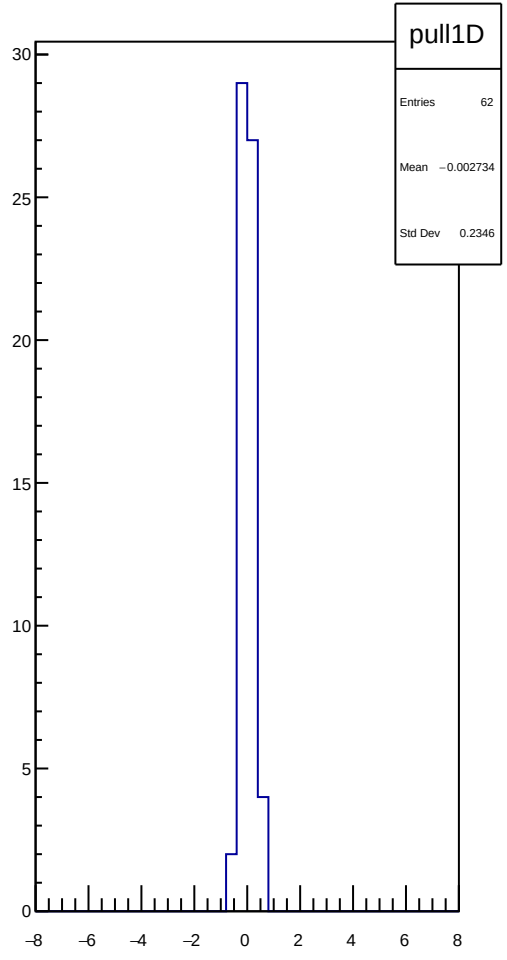

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 1.512 / 61
p0 2.247 ± 1.14
pull
Entries 62
Mean −208.6
Std Dev 240.4

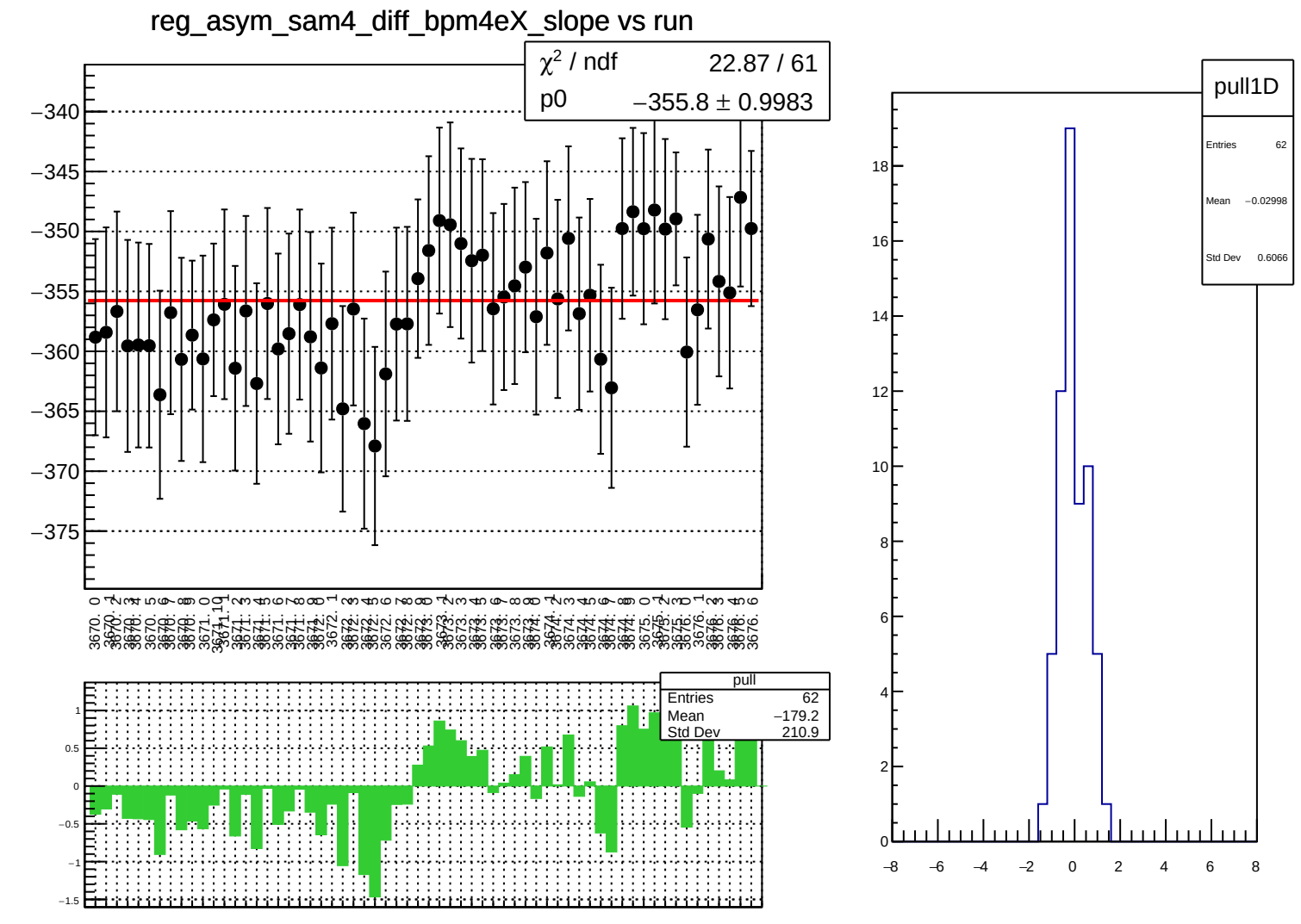

pull1D
Entries 62
Mean 0.008499
Std Dev 0.1559

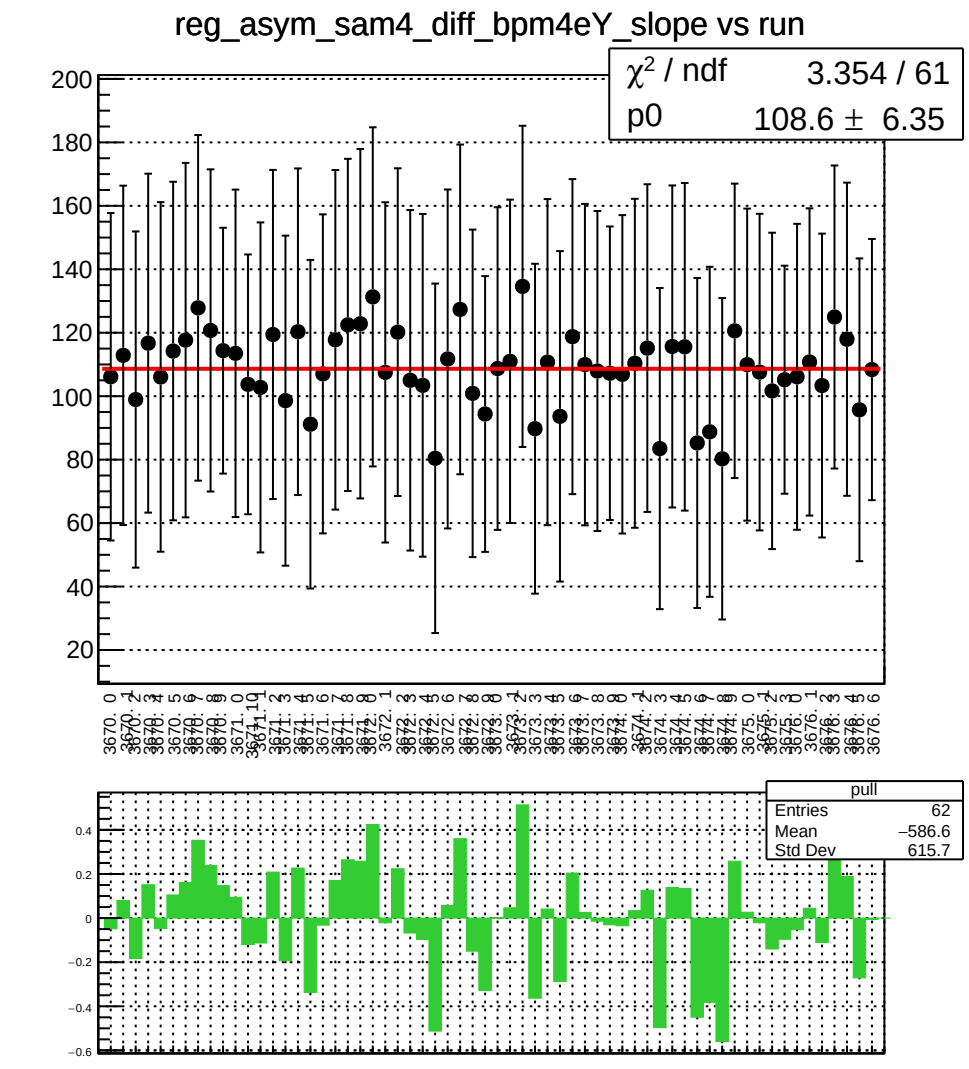

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 7.545 / 61
p0 65.03 ± 5.212
pull
Entries 62
Mean 164.5
Std Dev 131.9

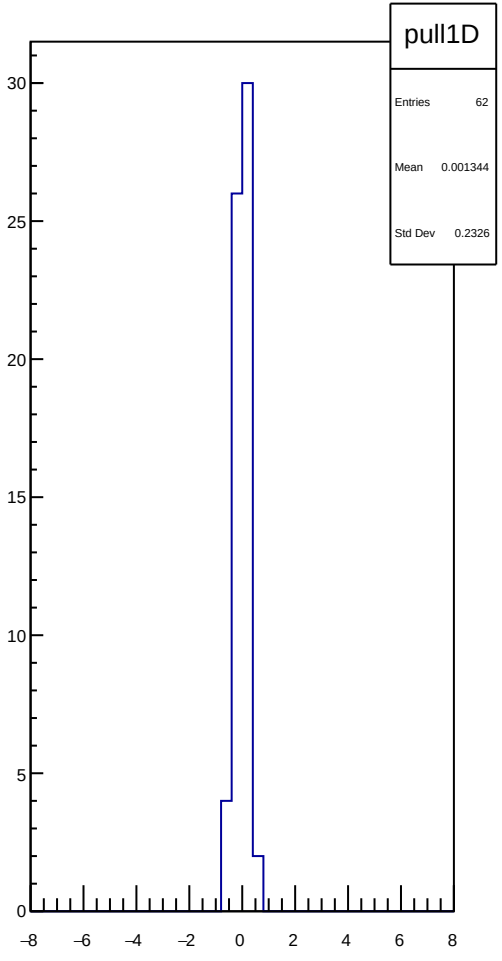

pull1D
Entries 62
Mean 0.008153
Std Dev 0.3488

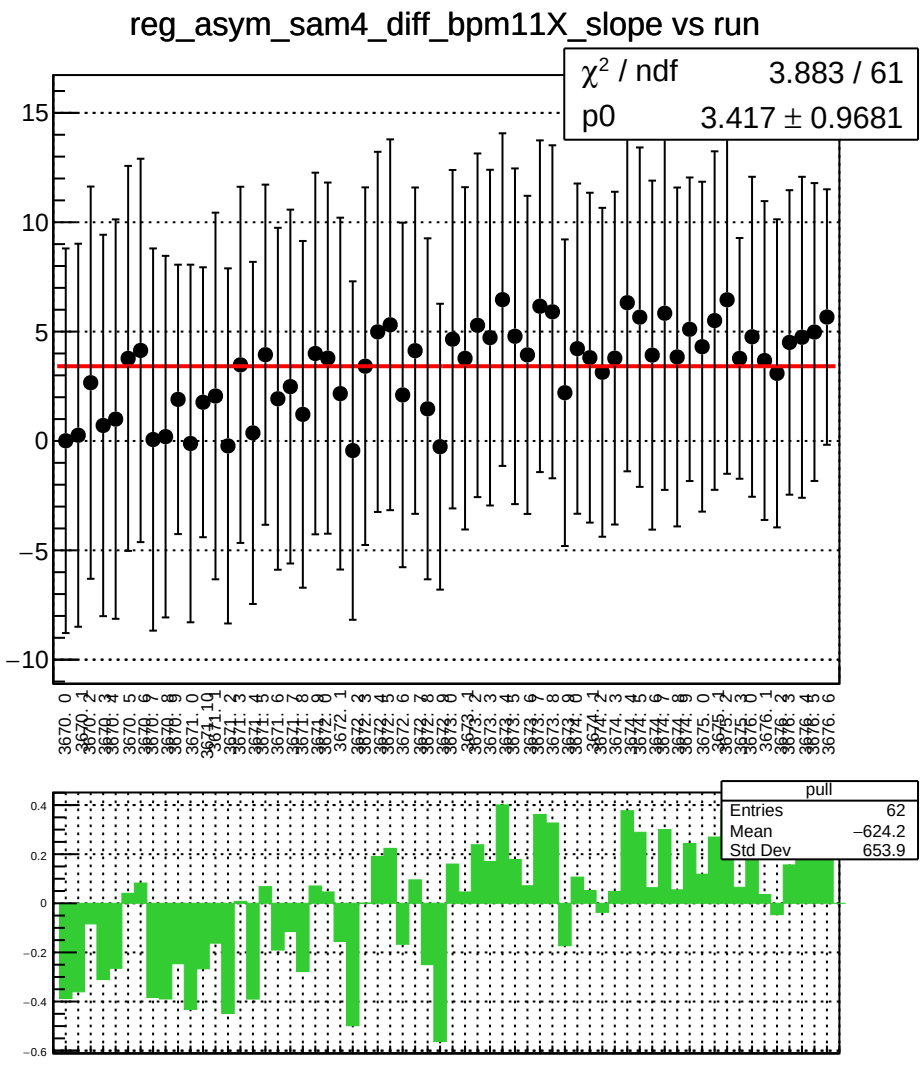

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 3.412 / 61
p0 115.5 ± 4.083
160
140
120
100
80
60
pull
Entries 62
Mean −279.5
Std Dev 306.5
0.6
0.4
0.2
0
−0.2
−0.4

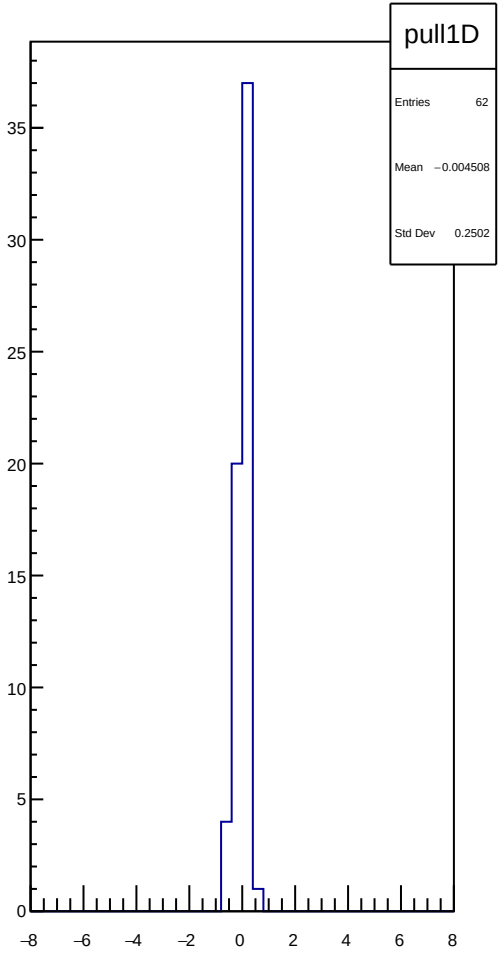

pull1D
Entries 62
Mean −0.002734
Std Dev 0.2346
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

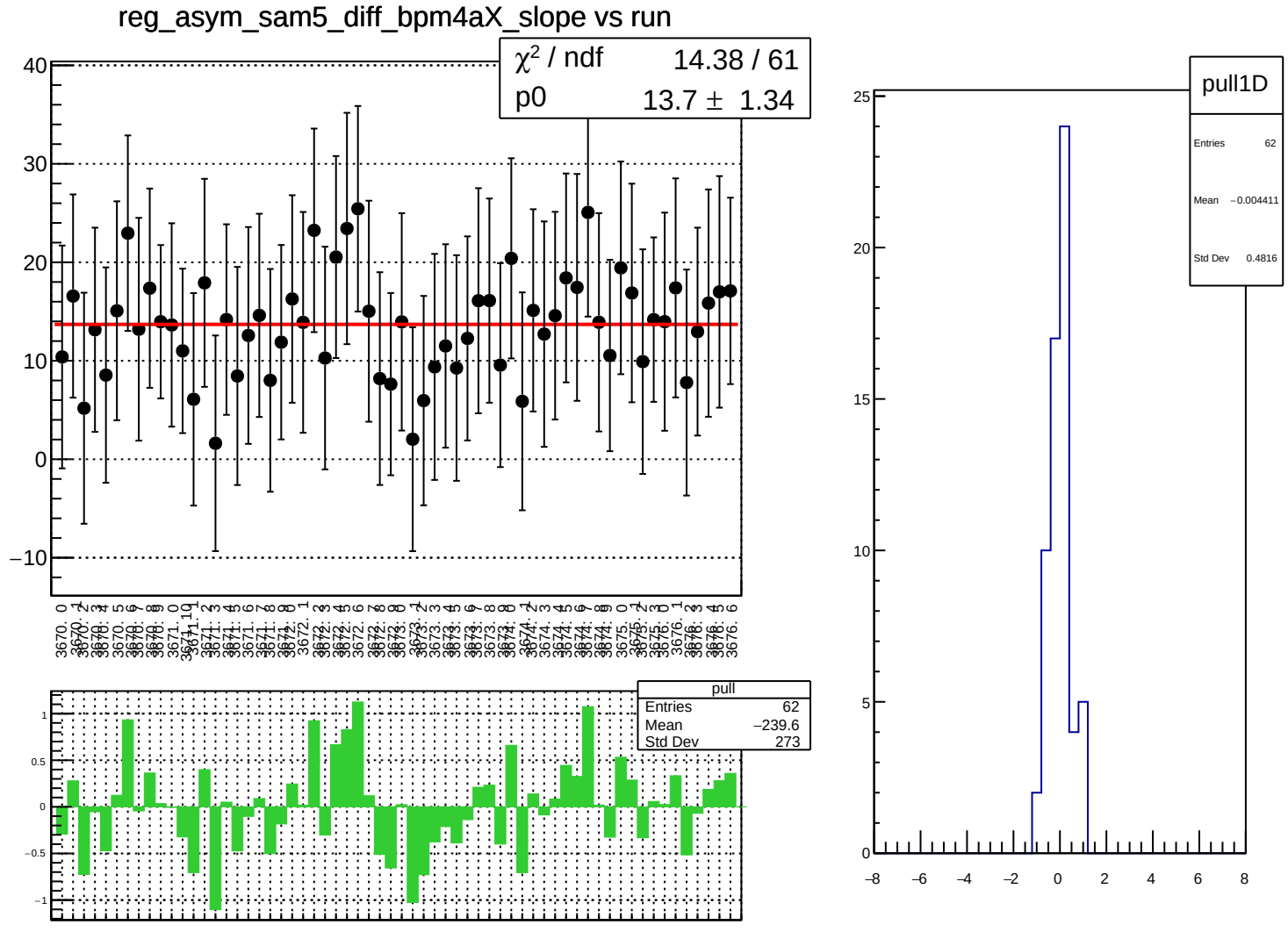

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 22.87 / 61
p0 −355.8 ± 0.9983
pull
Entries 62
Mean −179.2
Std Dev 210.9
pull1D
Entries 62
Mean −0.02998
Std Dev 0.6066

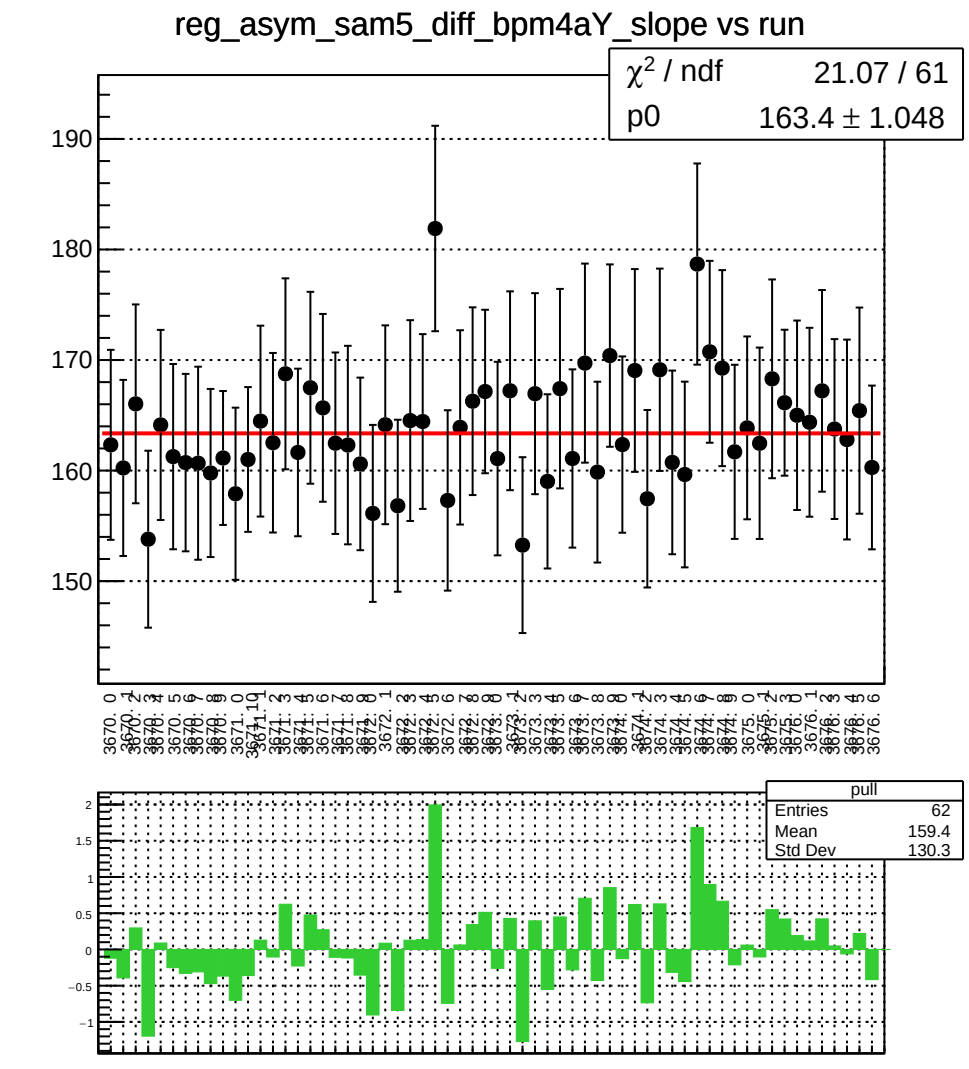

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.354 / 61
p0 108.6 ± 6.35
pull
Entries 62
Mean −586.6
Std Dev 615.7

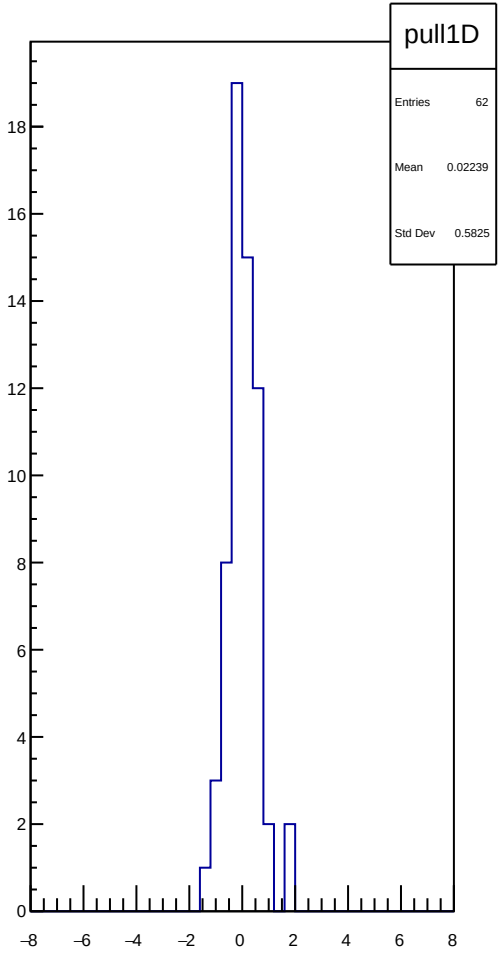

pull1D
Entries 62
Mean 0.001344
Std Dev 0.2326

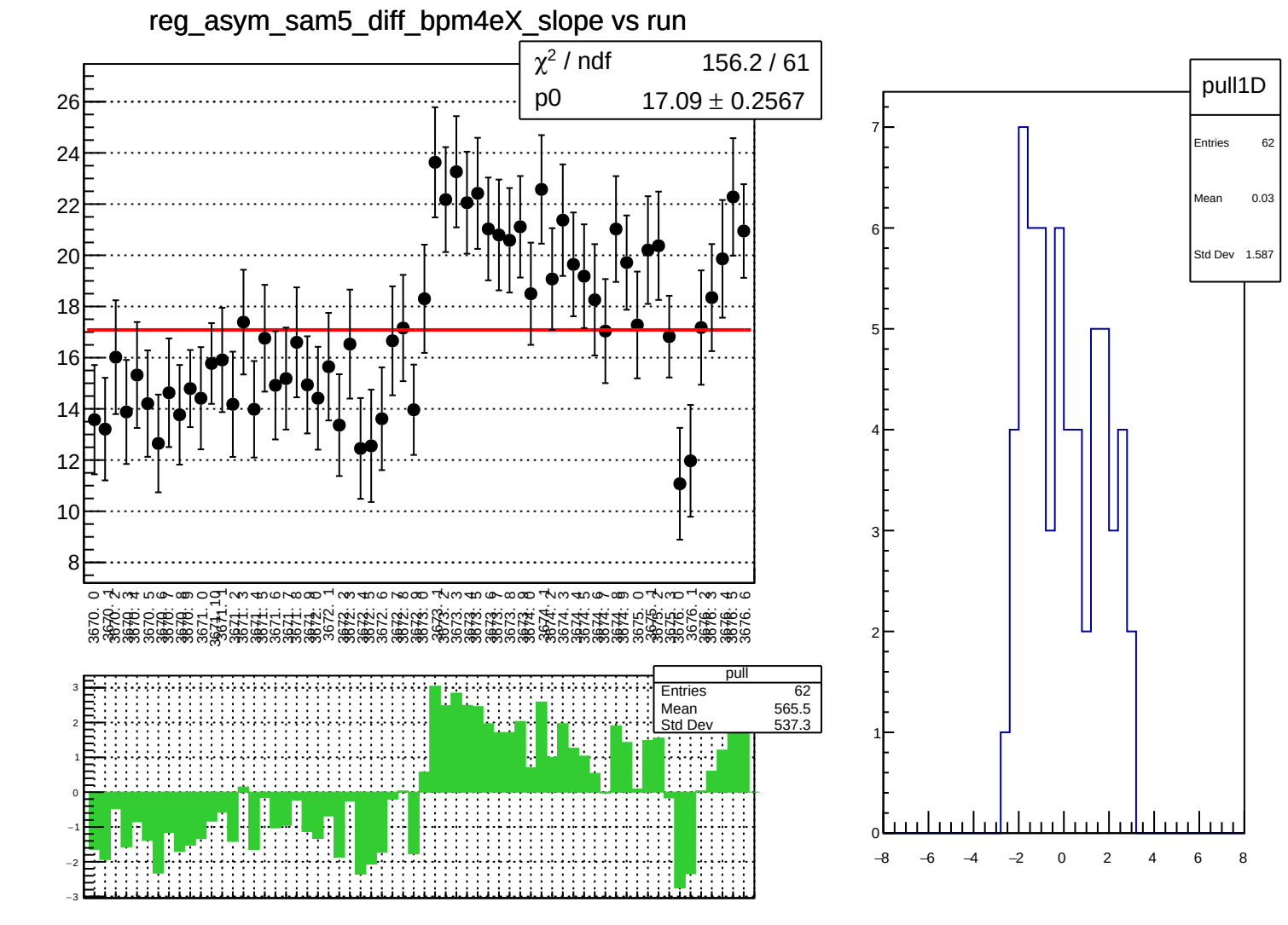

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 3.883 / 61
p0 3.417 ± 0.9681
pull
Entries 62
Mean −624.2
Std Dev 653.9

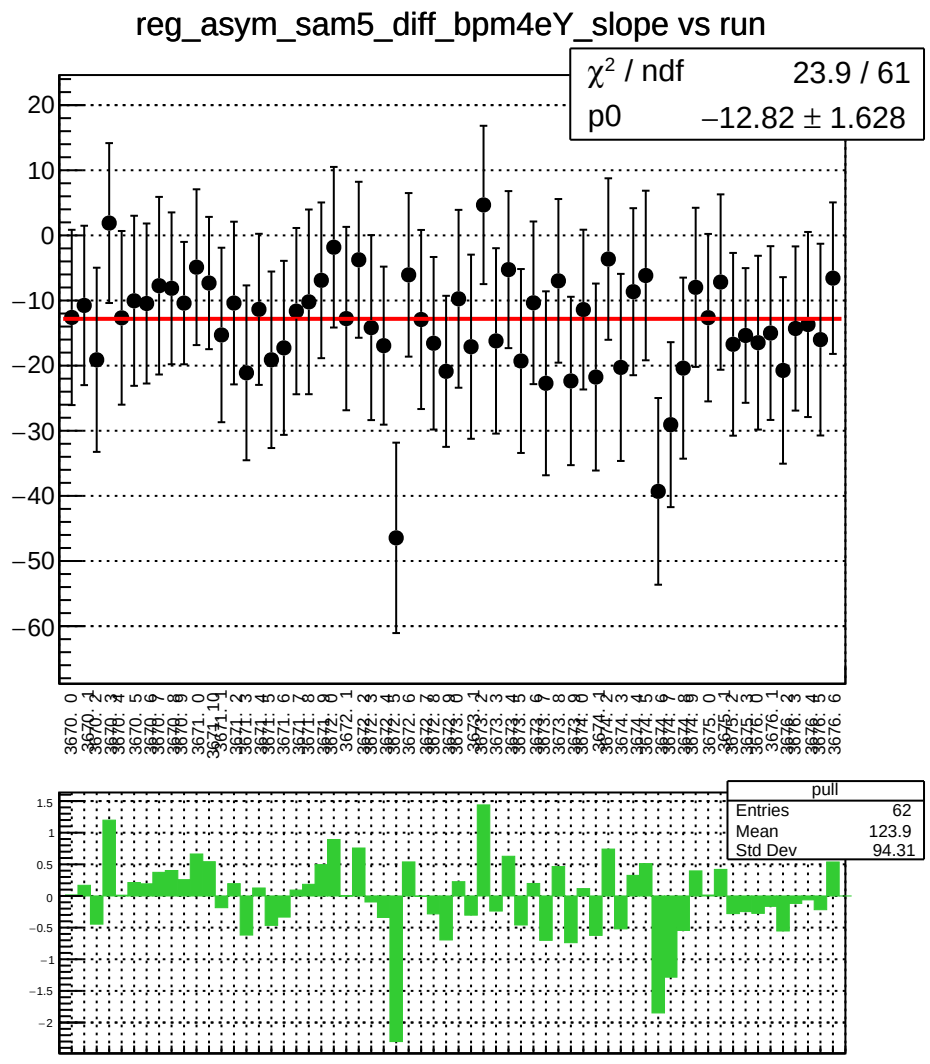

pull1D
Entries 62
Mean −0.004508
Std Dev 0.2502

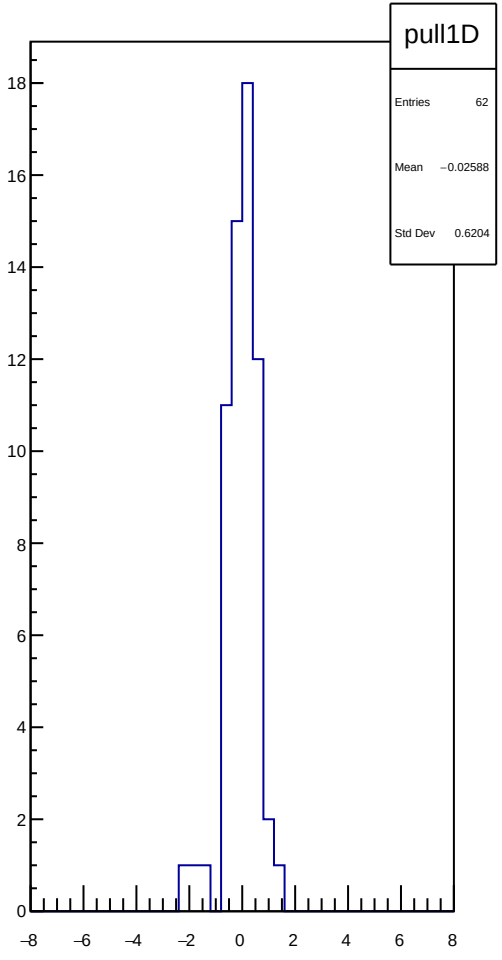

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 14.38 / 61
p0 13.7 ± 1.34
pull
Entries 62
Mean −239.6
Std Dev 273
pull1D
Entries 62
Mean −0.004411
Std Dev 0.4816

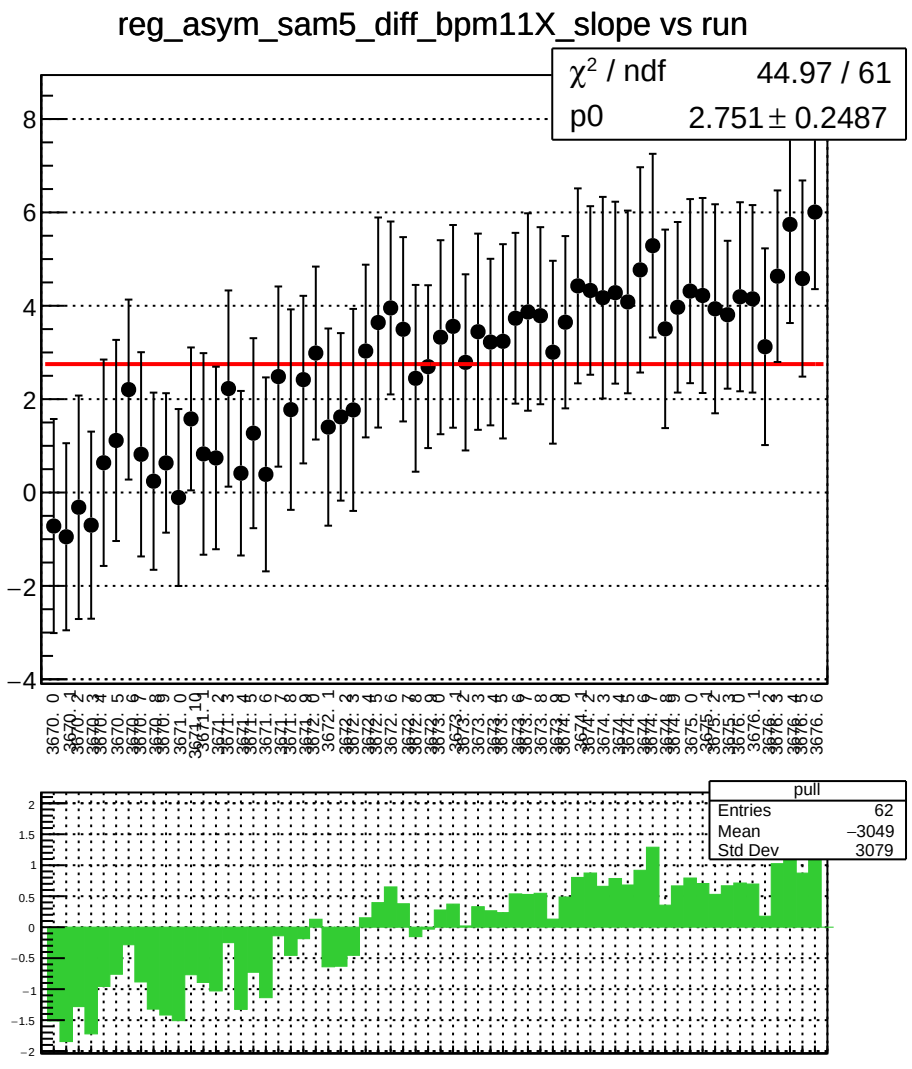

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 21.07 / 61
p0 163.4 ± 1.048
pull
Entries 62
Mean 159.4
Std Dev 130.3

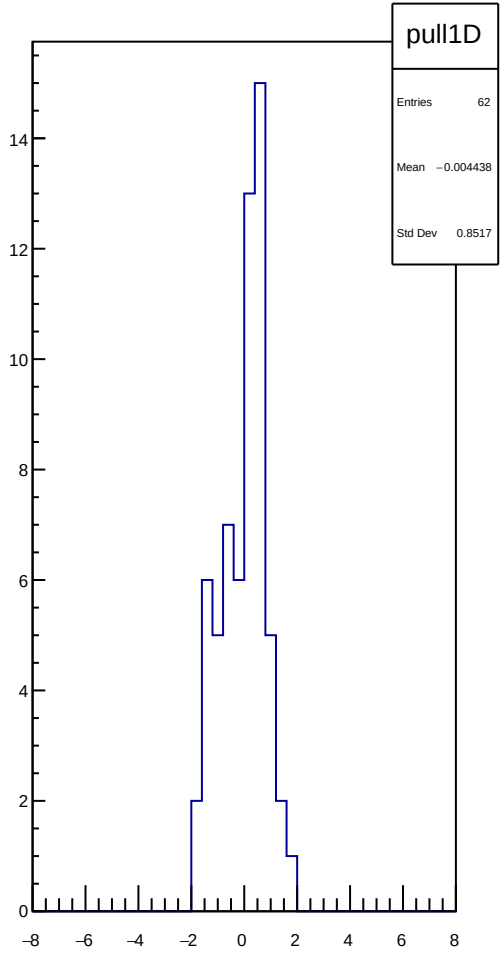

pull1D
Entries 62
Mean 0.02239
Std Dev 0.5825

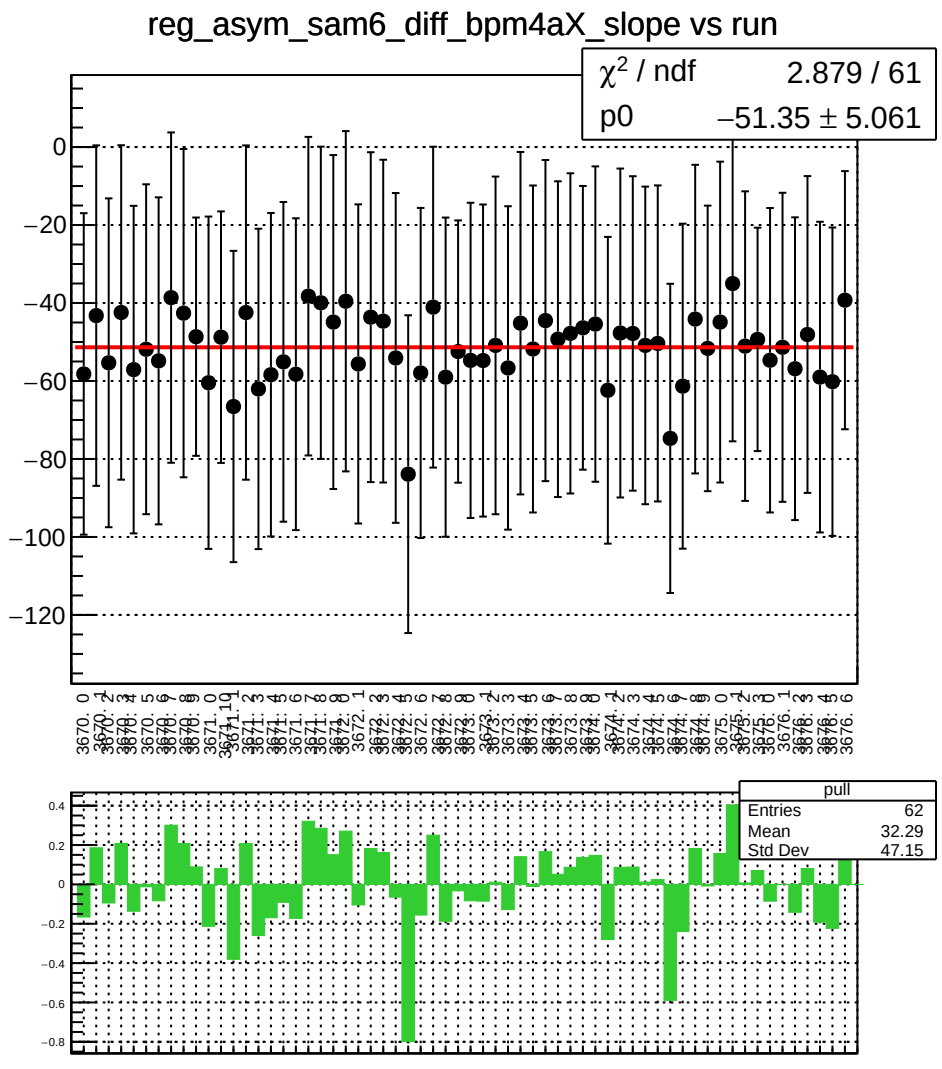

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 156.2 / 61
p0 17.09 ± 0.2567
pull
Entries 62
Mean 565.5
Std Dev 537.3
pull1D
Entries 62
Mean 0.03
Std Dev 1.587

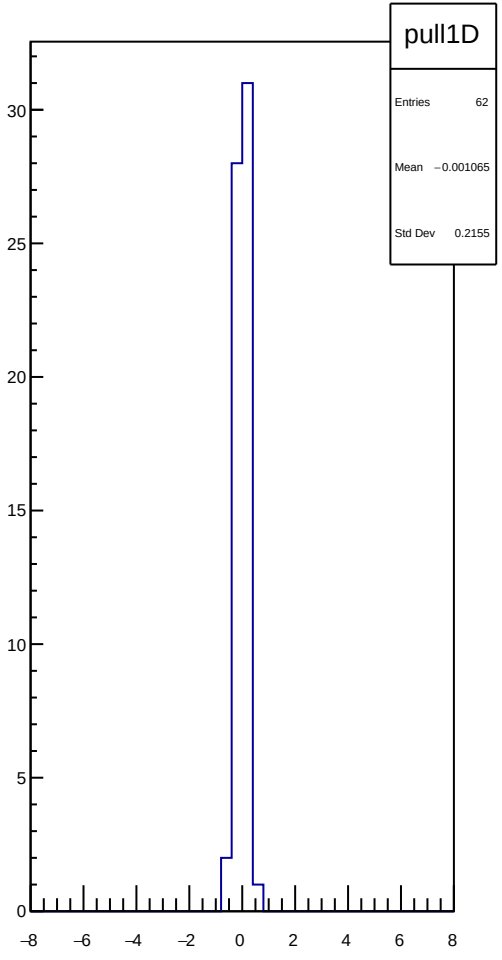

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 23.9 / 61
p0 −12.82 ± 1.628
pull
Entries 62
Mean 123.9
Std Dev 94.31

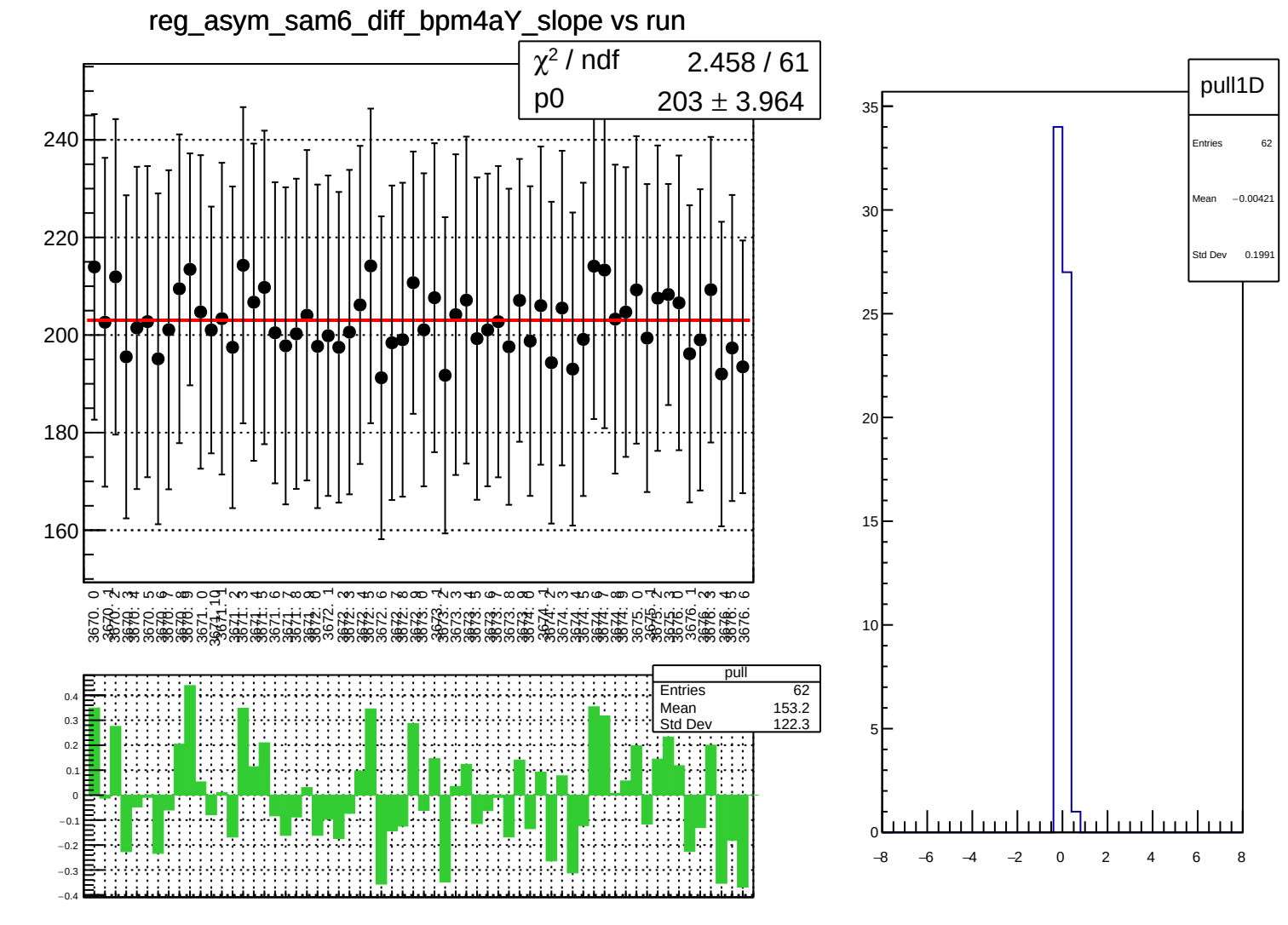

pull1D
Entries 62
Mean −0.02588
Std Dev 0.6204

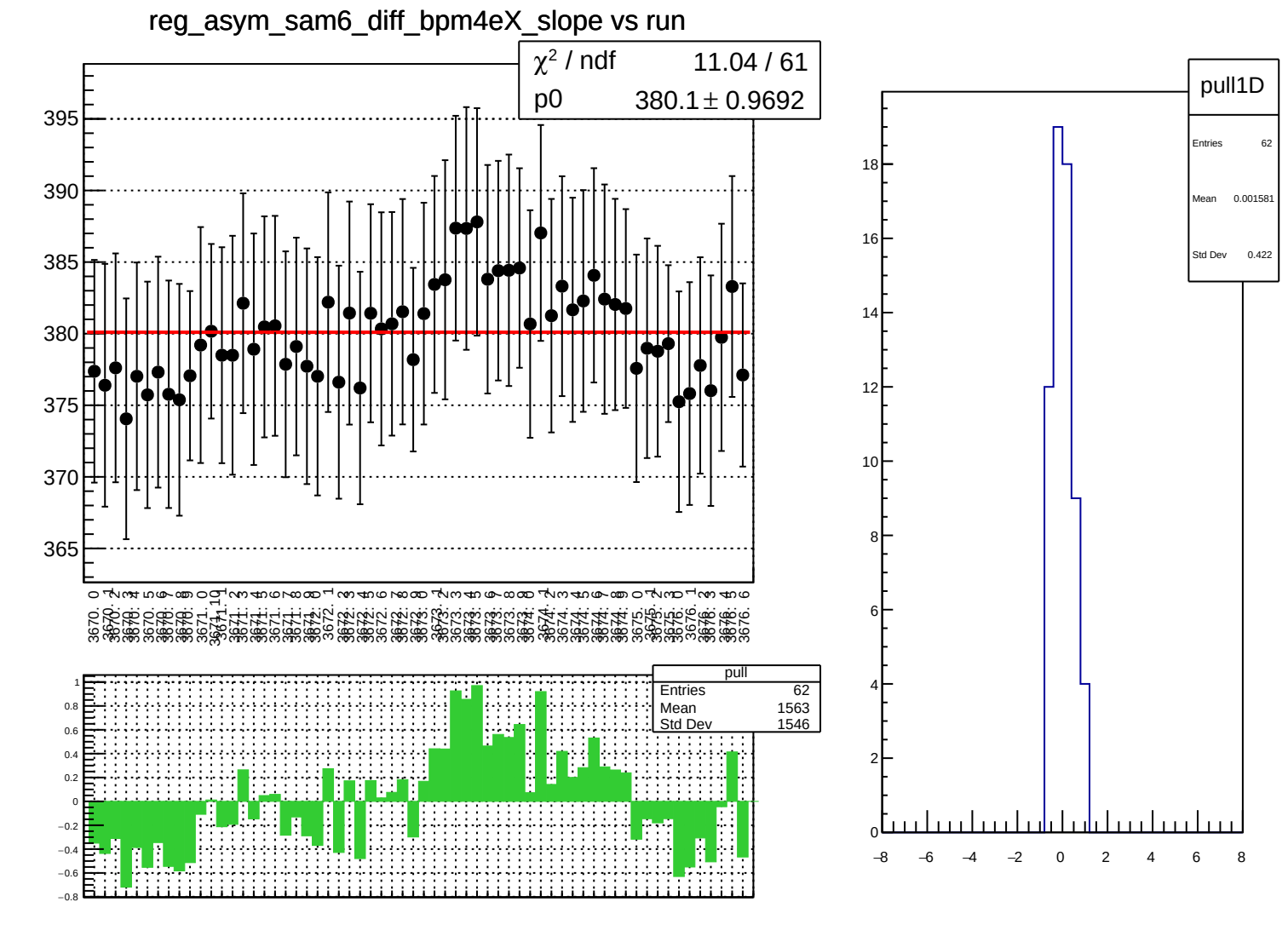

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 44.97 / 61
p0 2.751 ± 0.2487
pull
Entries 62
Mean −3049
Std Dev 3079

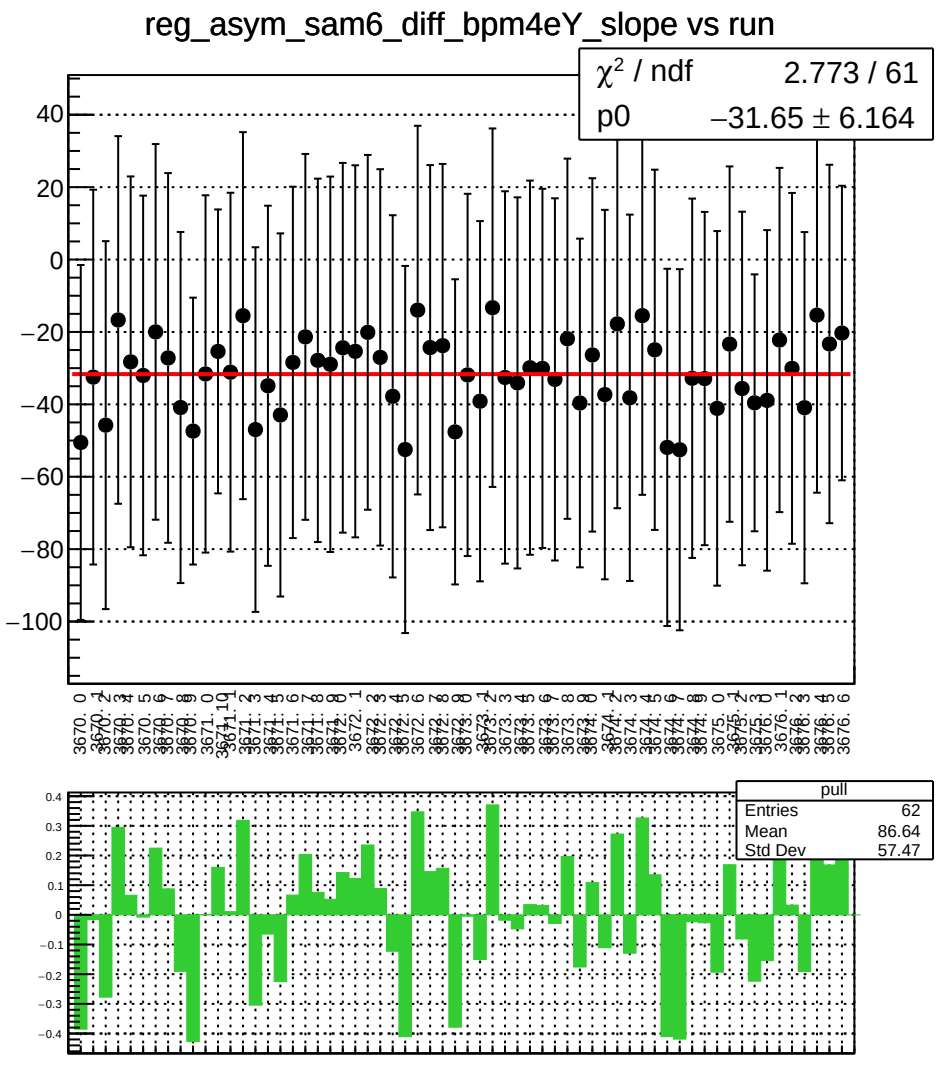

pull1D
Entries 62
Mean −0.004438
Std Dev 0.8517

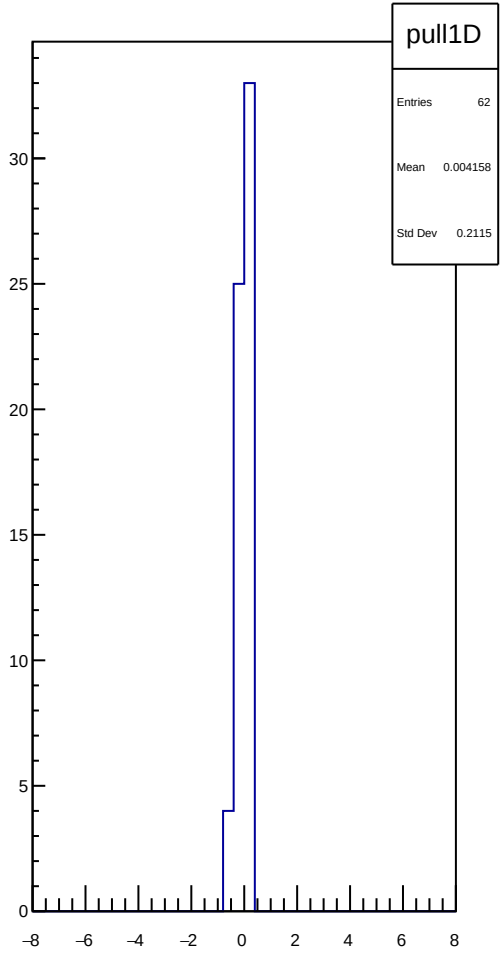

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 2.879 / 61
p0 −51.35 ± 5.061
pull
Entries 62
Mean 32.29
Std Dev 47.15

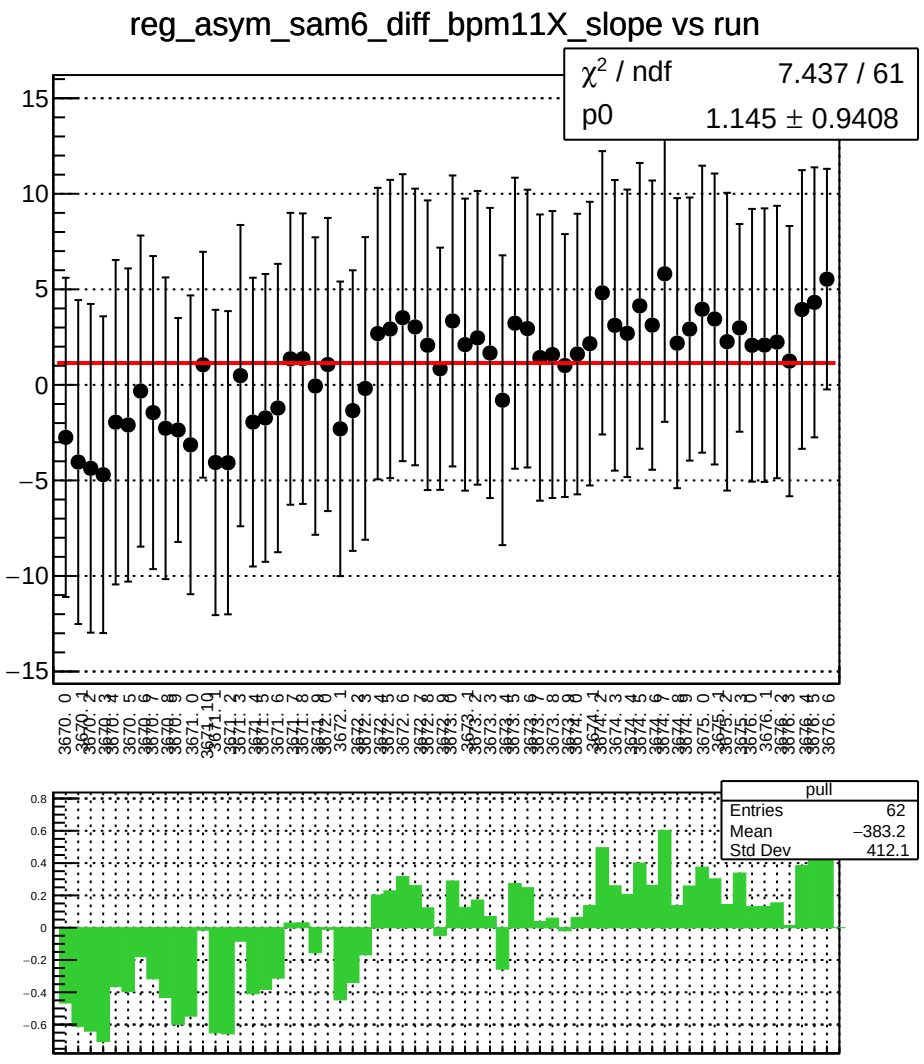

pull1D
Entries 62
Mean −0.001065
Std Dev 0.2155

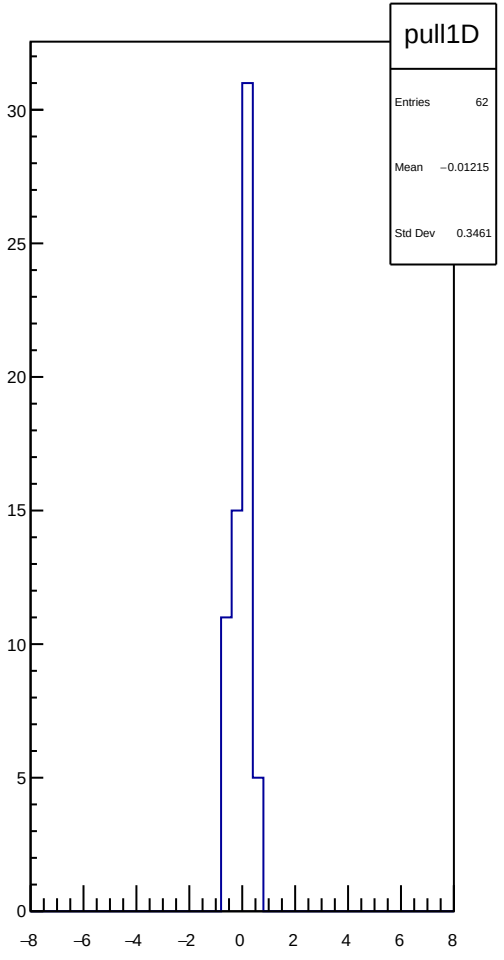

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 2.458 / 61
p0 203 ± 3.964
240
220
200
180
160
pull
Entries 62
Mean 153.2
Std Dev 122.3
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 62
Mean −0.00421
Std Dev 0.1991
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

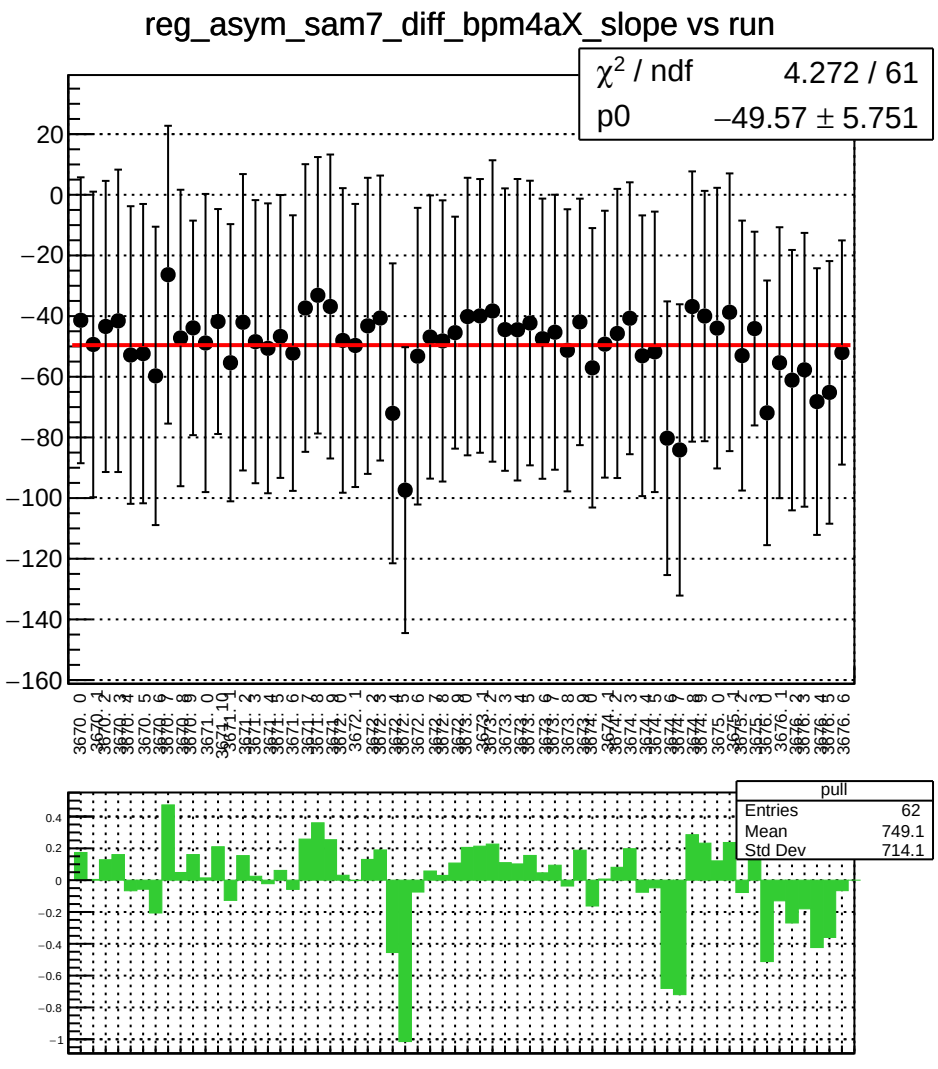

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 11.04 / 61
p0 380.1 ± 0.9692
pull
Entries 62
Mean 1563
Std Dev 1546
pull1D
Entries 62
Mean 0.001581
Std Dev 0.422

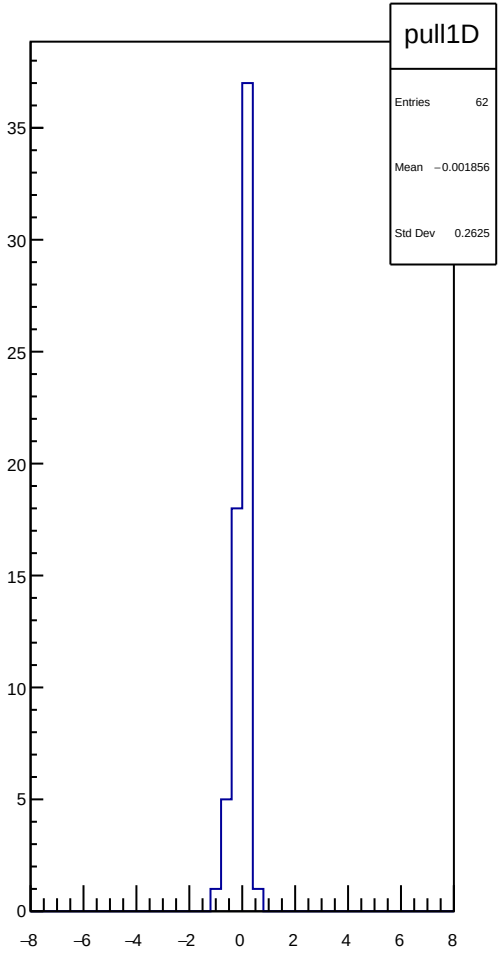

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 2.773 / 61
p0 −31.65 ± 6.164
pull
Entries 62
Mean 86.64
Std Dev 57.47

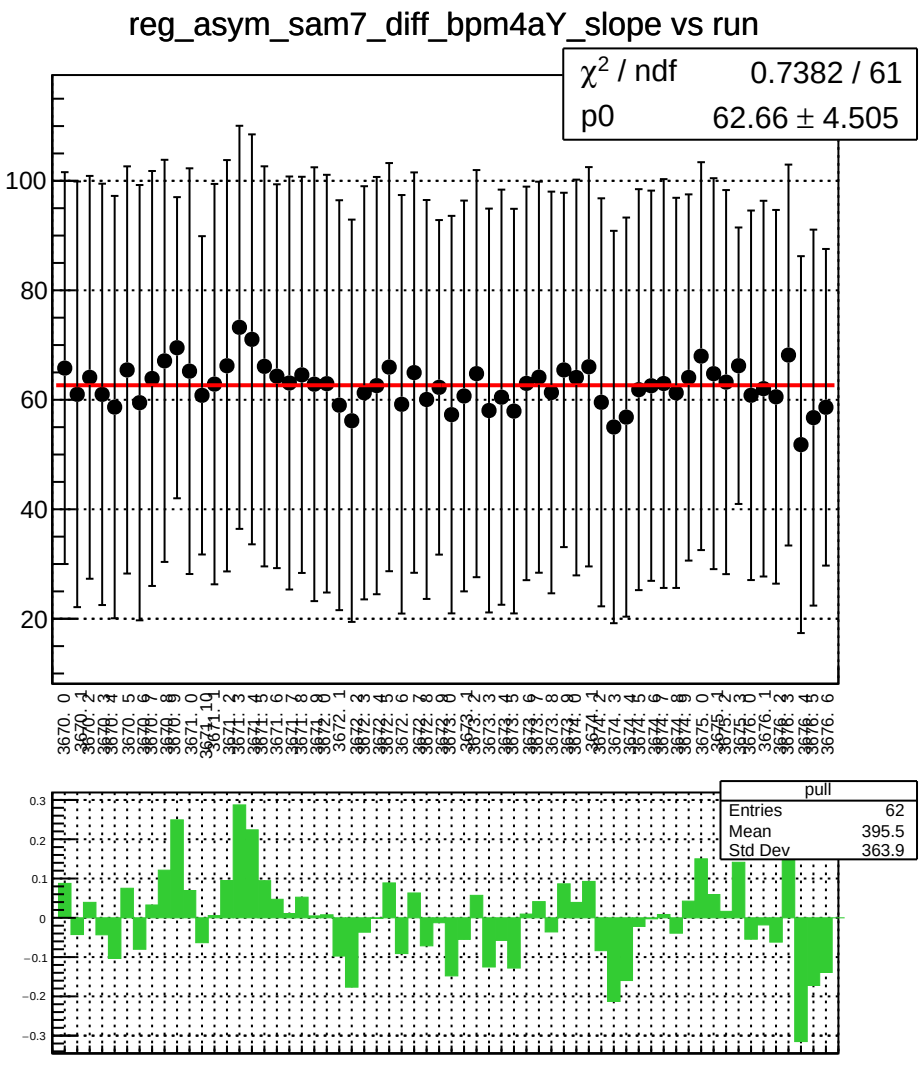

pull1D
Entries 62
Mean 0.004158
Std Dev 0.2115

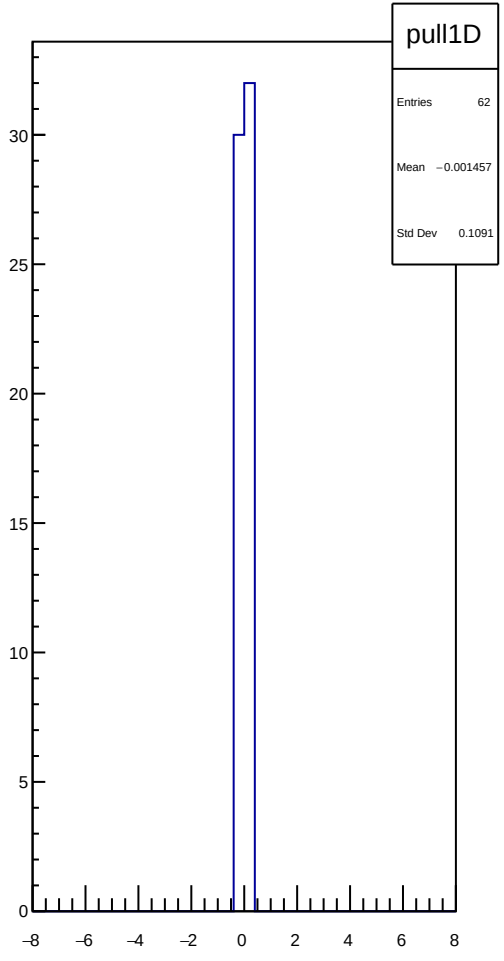

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 7.437 / 61
p0 1.145 ± 0.9408
pull
Entries 62
Mean −383.2
Std Dev 412.1

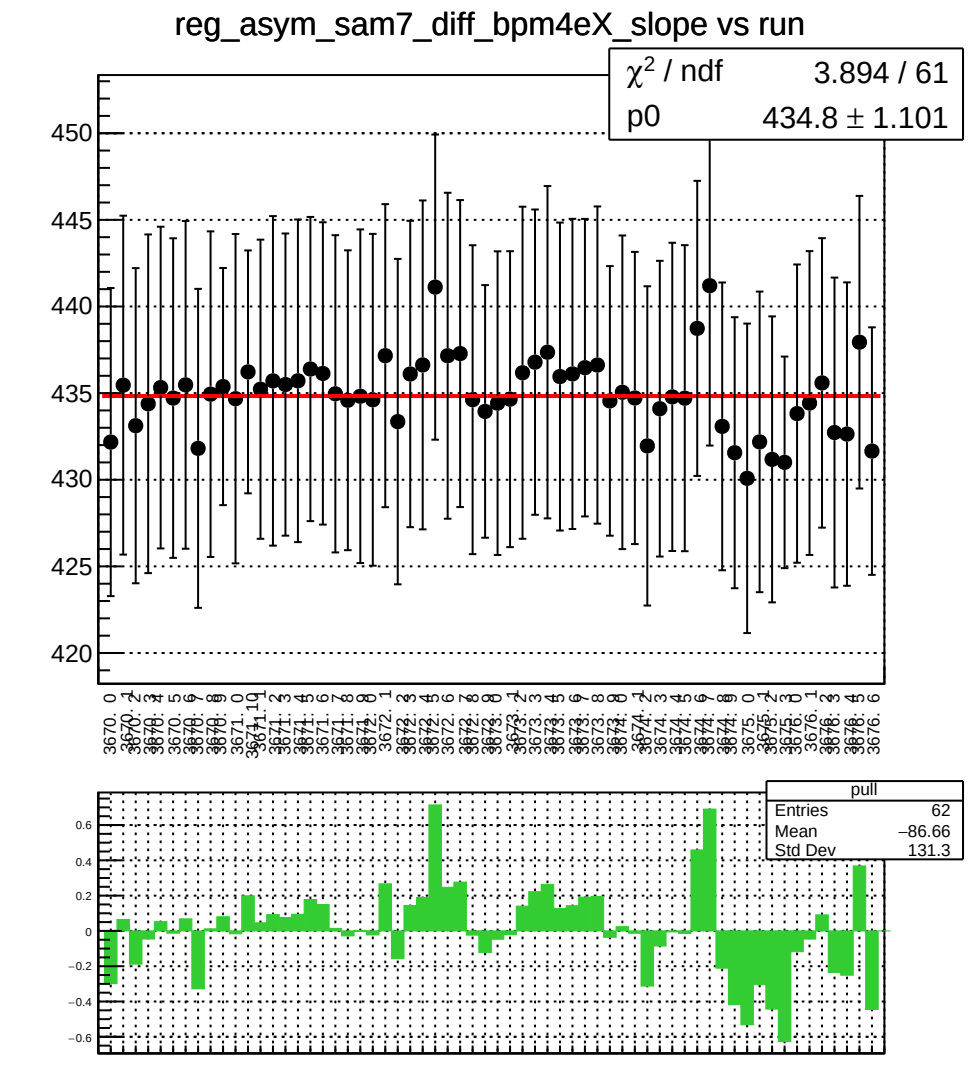

pull1D
Entries 62
Mean −0.01215
Std Dev 0.3461

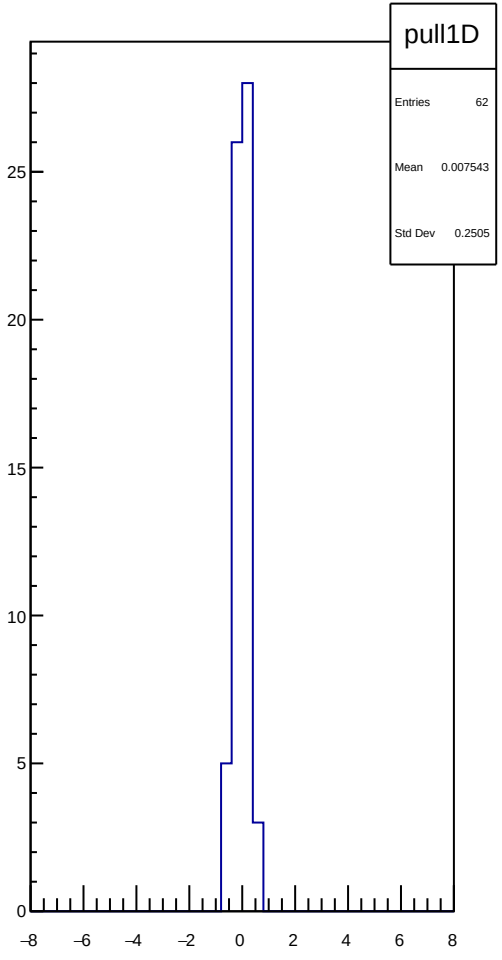

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 4.272 / 61
p0 −49.57 ± 5.751
pull
Entries 62
Mean 749.1
Std Dev 714.1

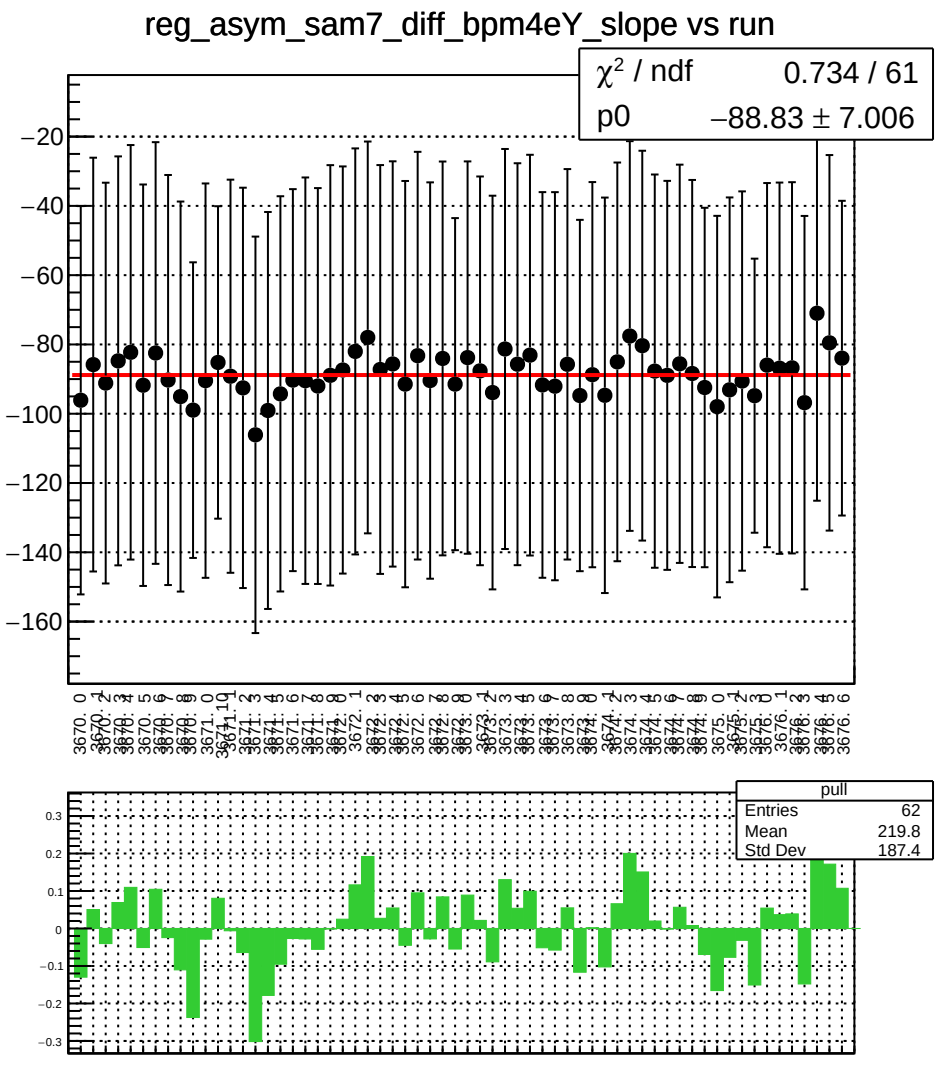

pull1D
Entries 62
Mean −0.001856
Std Dev 0.2625

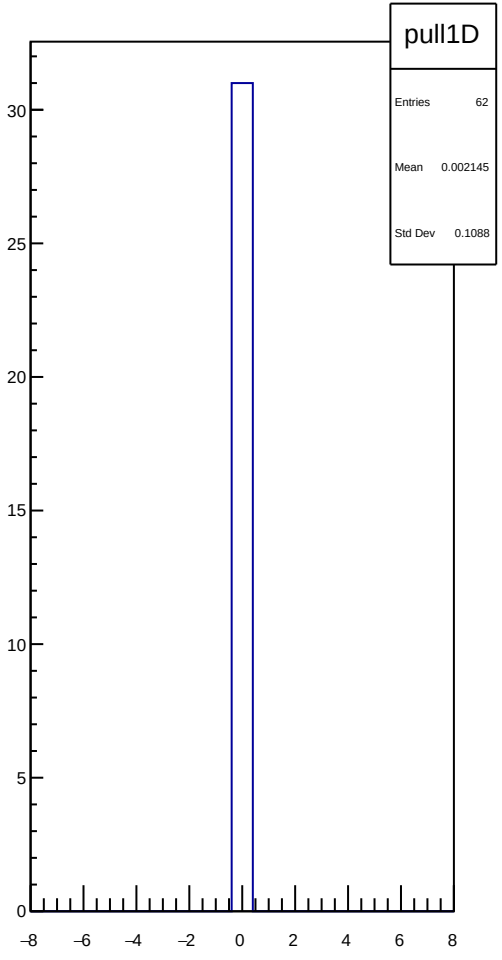

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.7382 / 61
p0 62.66 ± 4.505
pull
Entries 62
Mean 395.5
Std Dev 363.9

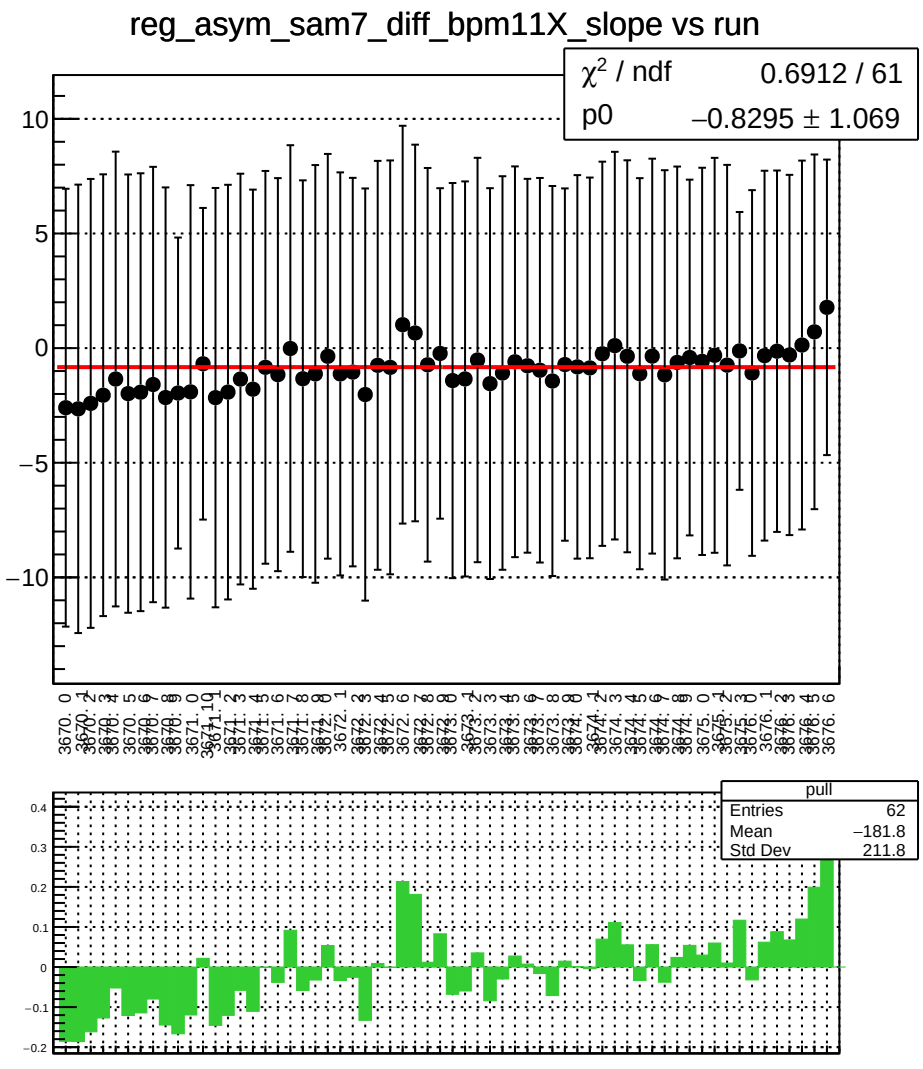

pull1D
Entries 62
Mean −0.001457
Std Dev 0.1091

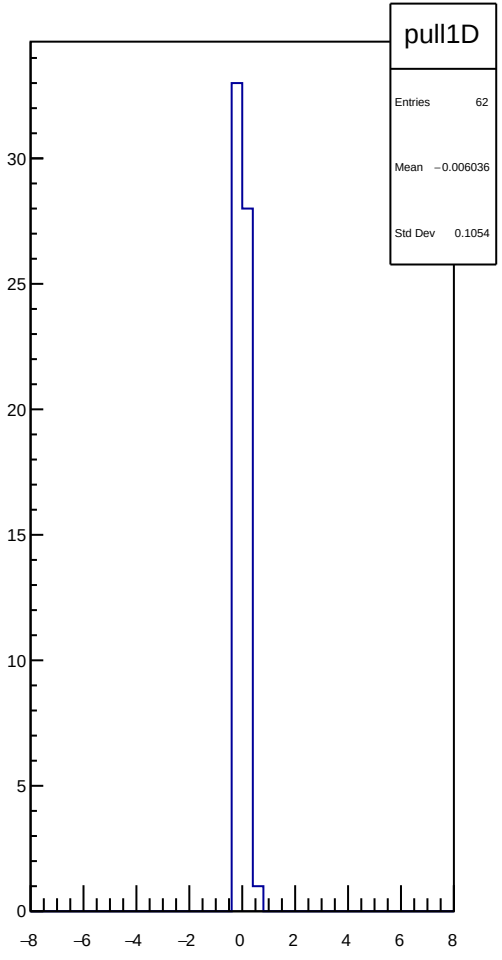

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 3.894 / 61
p0 434.8 ± 1.101
pull
Entries 62
Mean −86.66
Std Dev 131.3

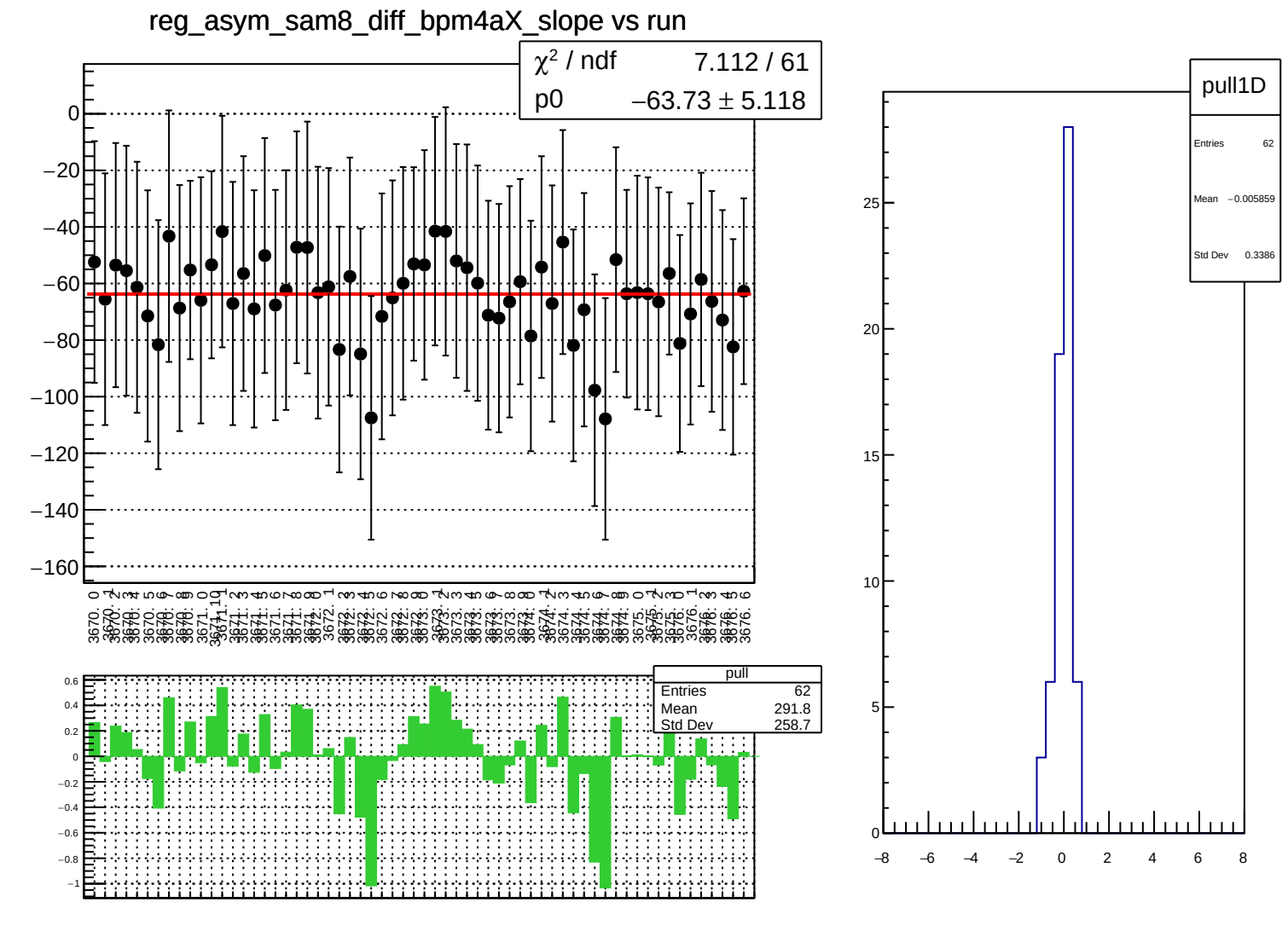

pull1D
Entries 62
Mean 0.007543
Std Dev 0.2505

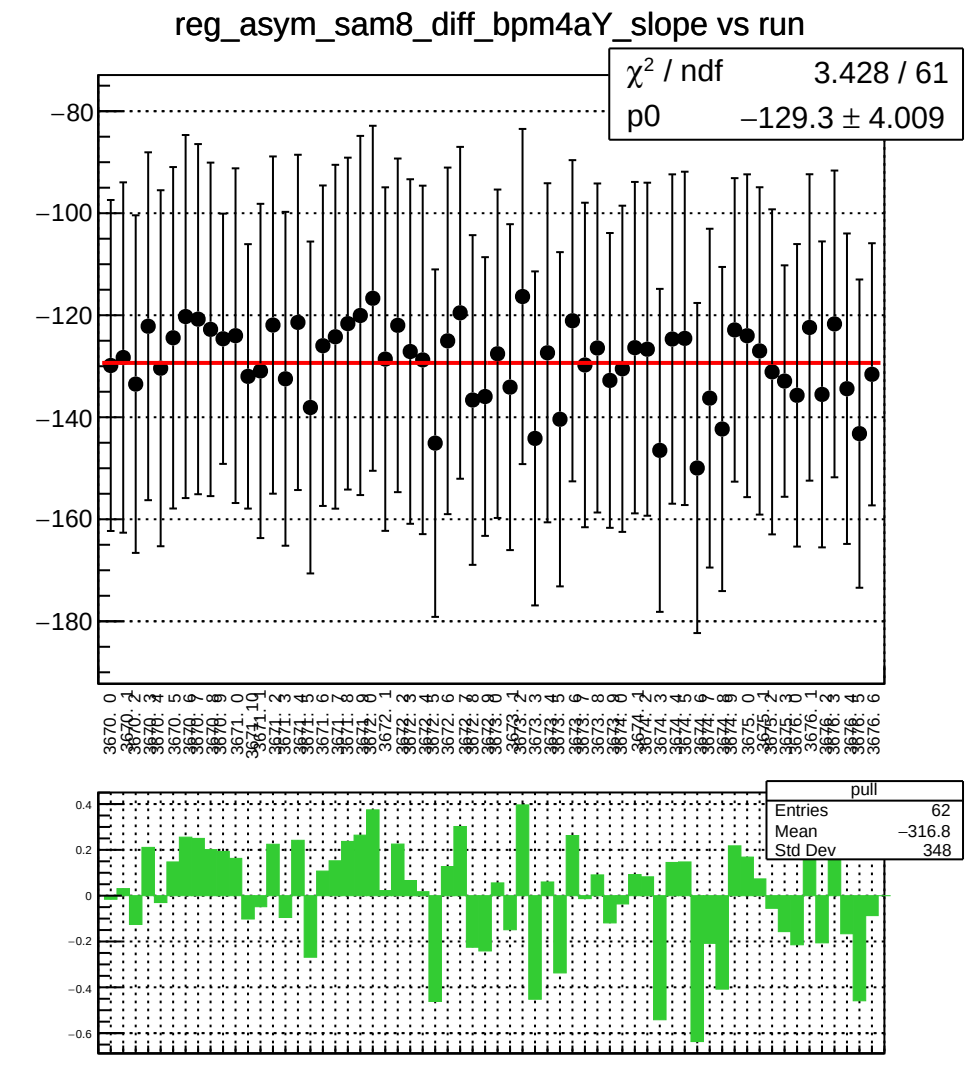

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.734 / 61
p0 −88.83 ± 7.006
pull
Entries 62
Mean 219.8
Std Dev 187.4

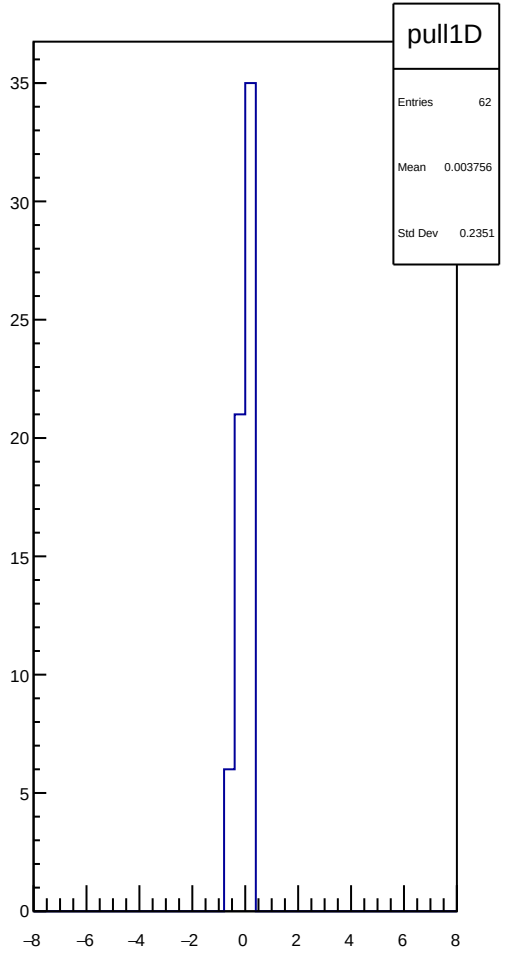

pull1D
Entries 62
Mean 0.002145
Std Dev 0.1088

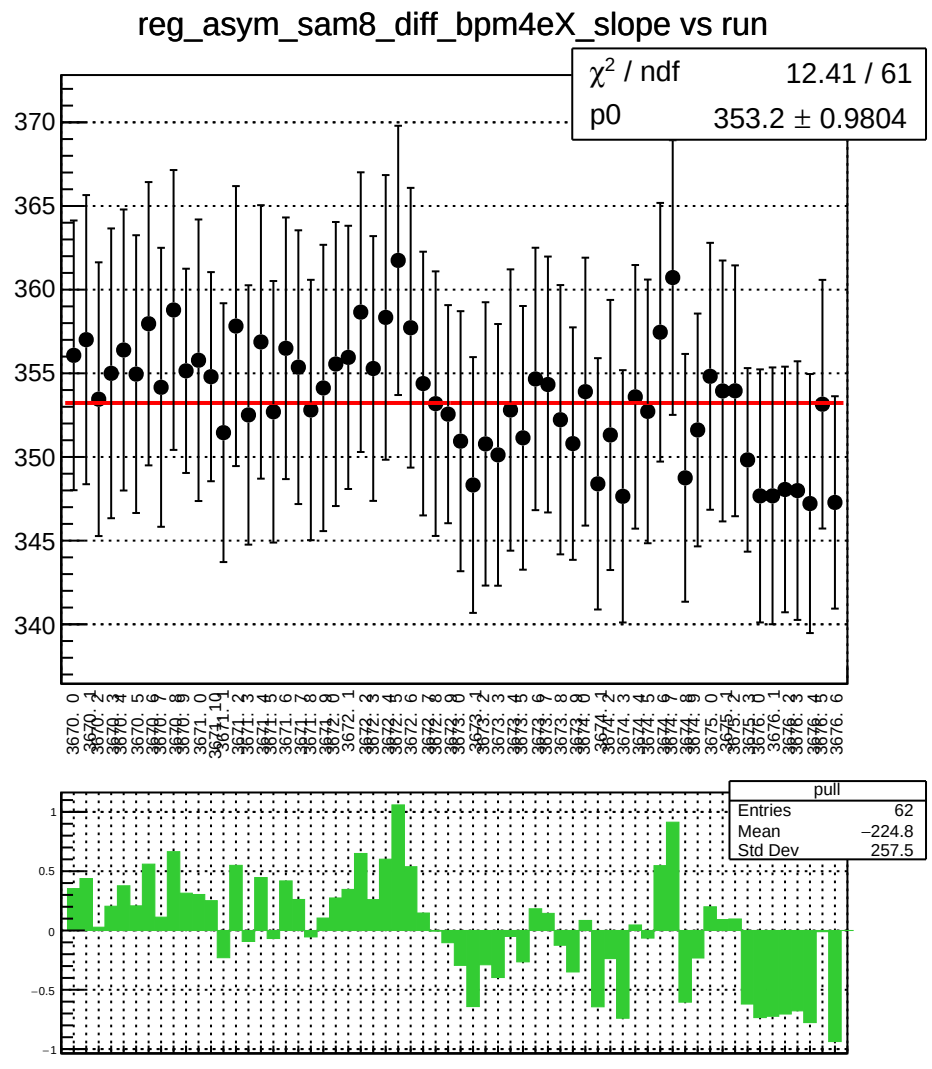

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 0.6912 / 61
p0 −0.8295 ± 1.069
pull
Entries 62
Mean −181.8
Std Dev 211.8

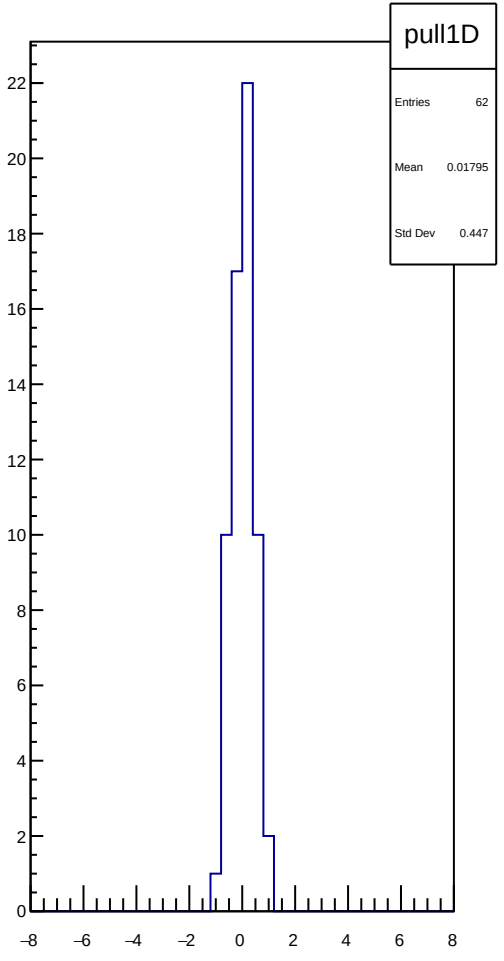

pull1D
Entries 62
Mean −0.006036
Std Dev 0.1054

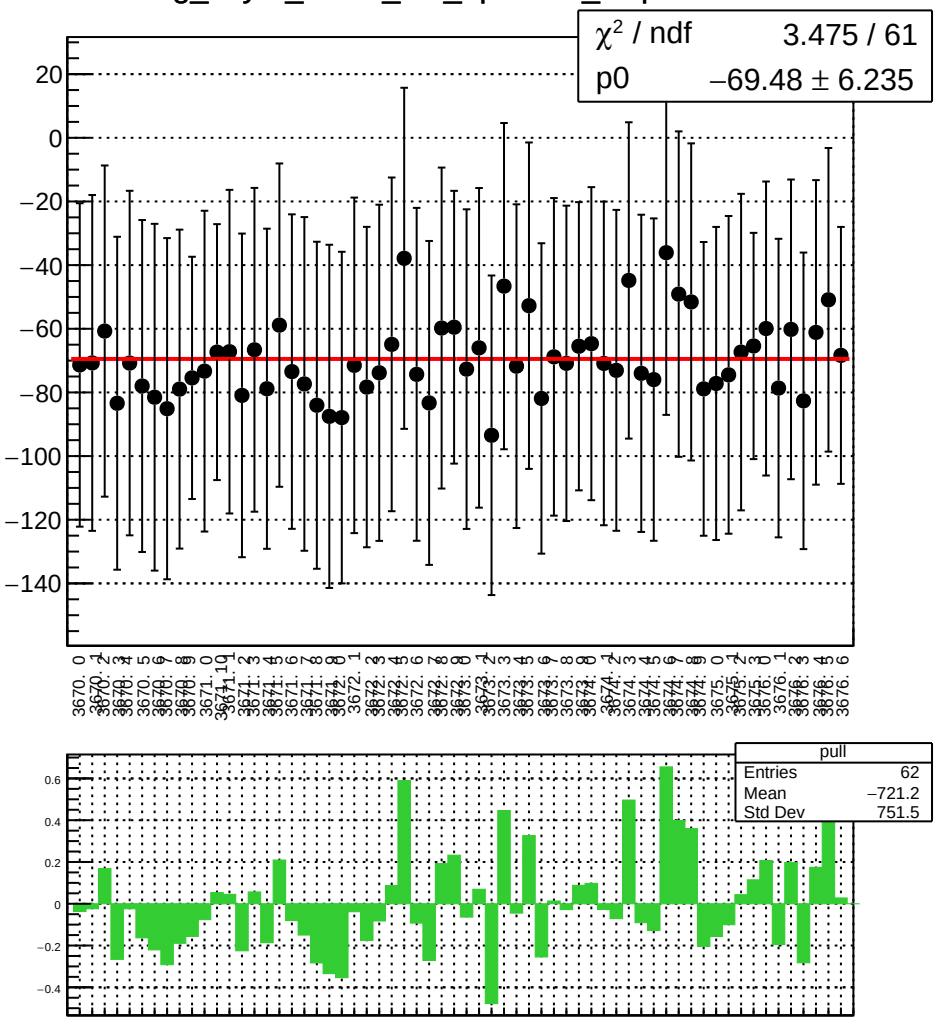

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 7.112 / 61
p0 −63.73 ± 5.118
pull
Entries 62
Mean 291.8
Std Dev 258.7
pull1D
Entries 62
Mean −0.005859
Std Dev 0.3386

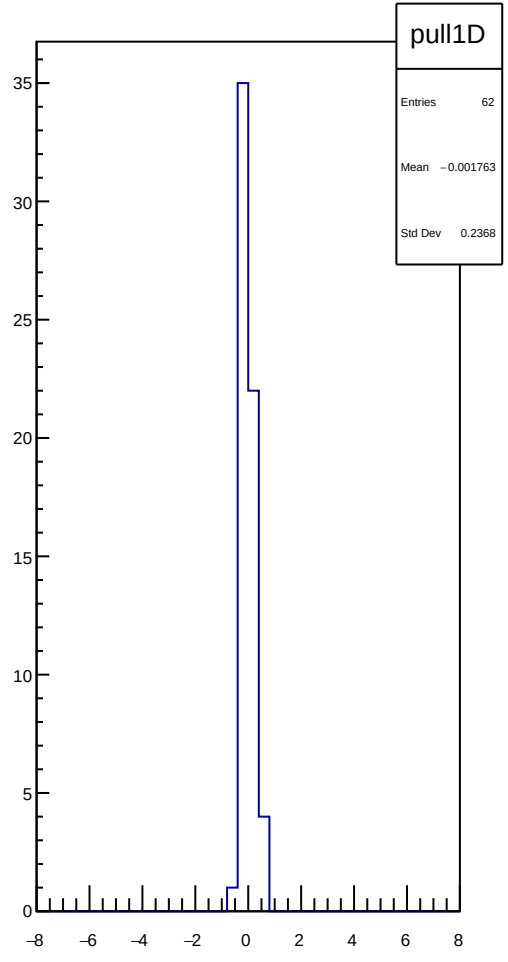

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 3.428 / 61
p0 −129.3 ± 4.009
pull
Entries 62
Mean −316.8
Std Dev 348

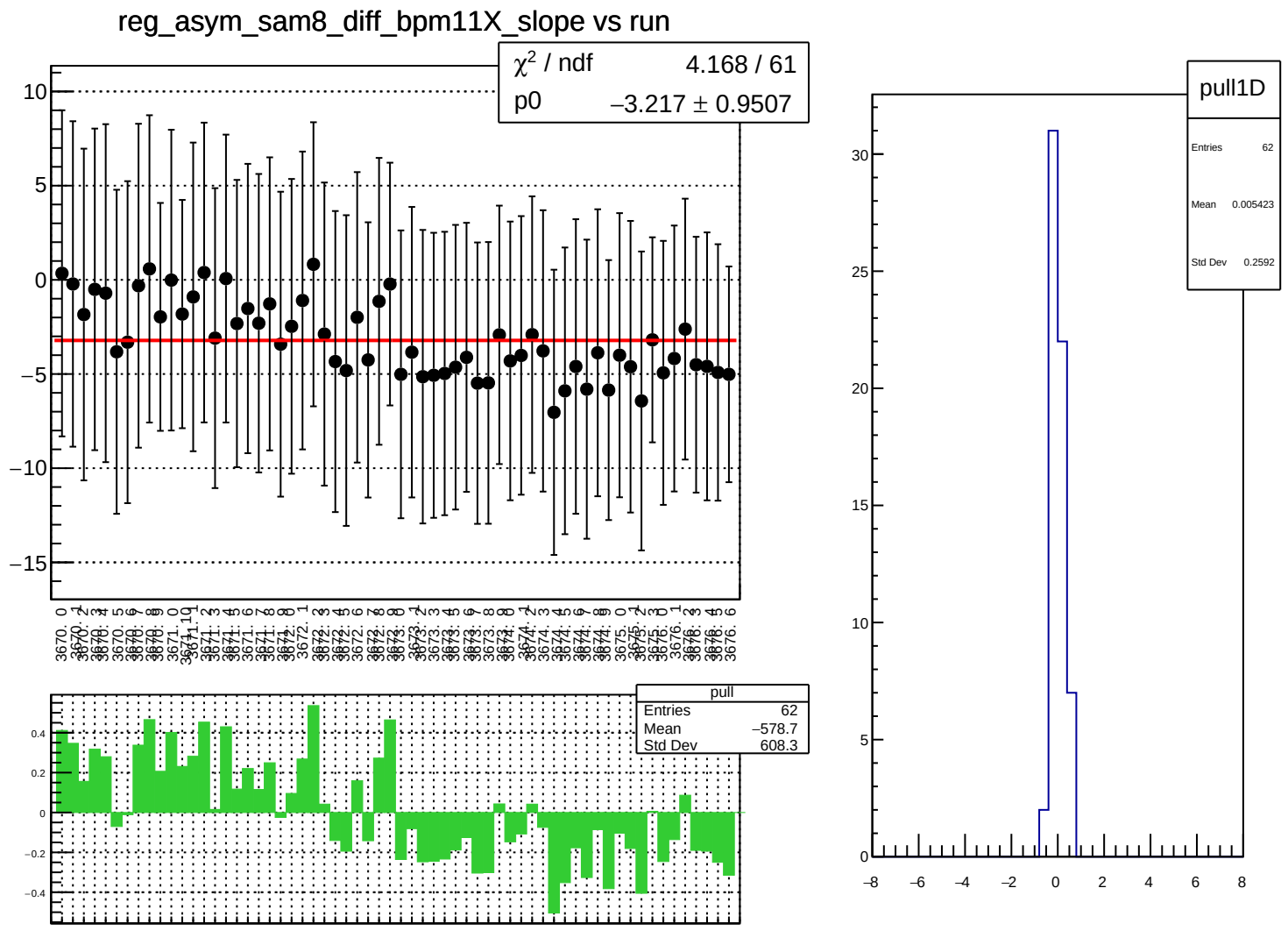

pull1D
Entries 62
Mean 0.003756
Std Dev 0.2351

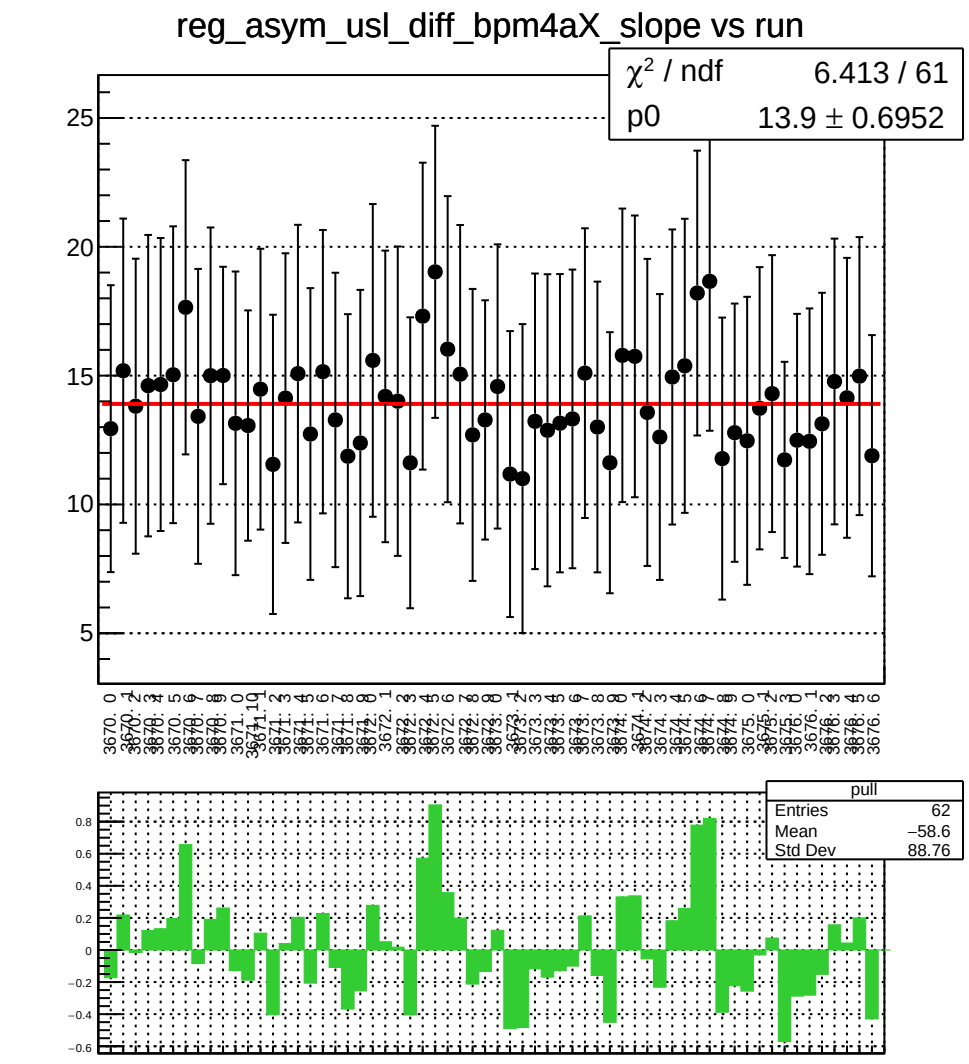

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 12.41 / 61
p0 353.2 ± 0.9804
pull
Entries 62
Mean −224.8
Std Dev 257.5

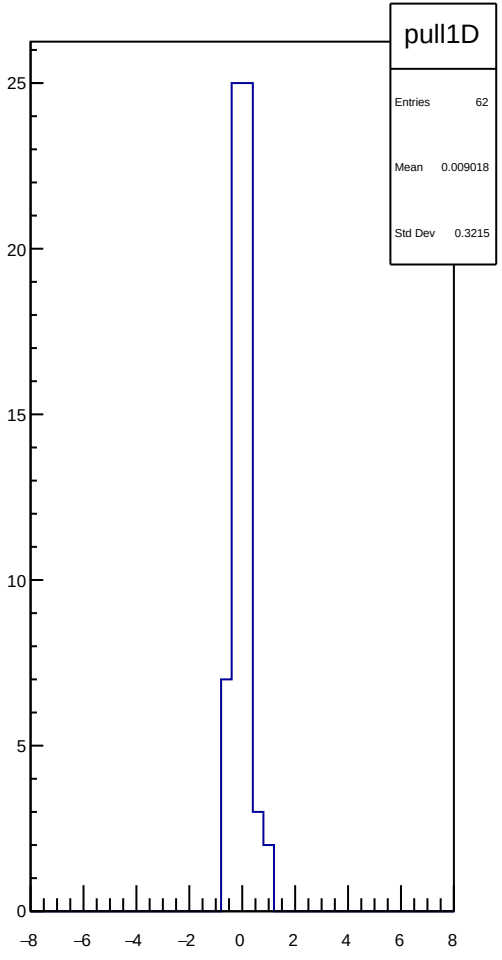

pull1D
Entries 62
Mean 0.01795
Std Dev 0.447

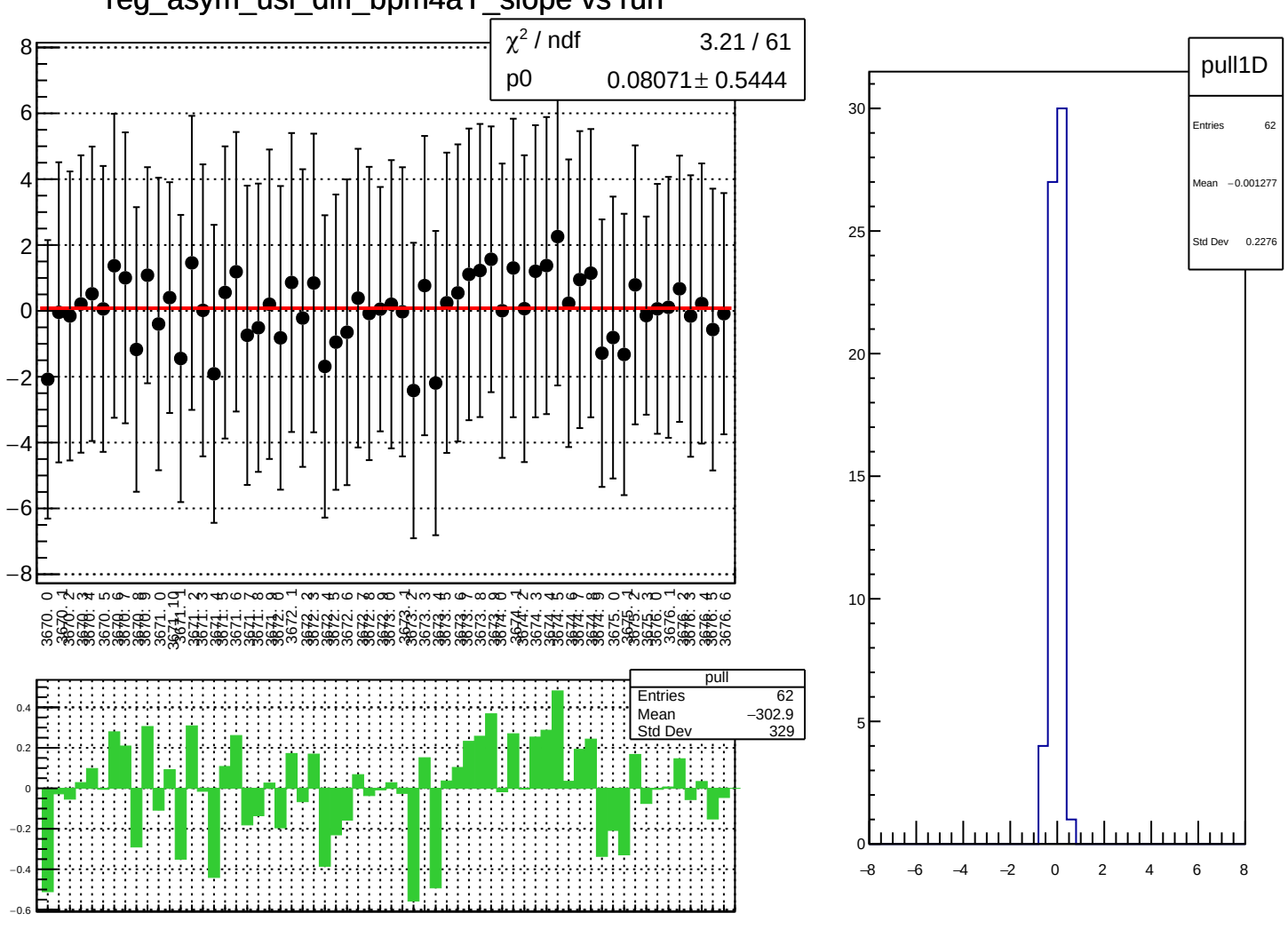

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 3.475 / 61
p0 −69.48 ± 6.235
pull
Entries 62
Mean −721.2
Std Dev 751.5

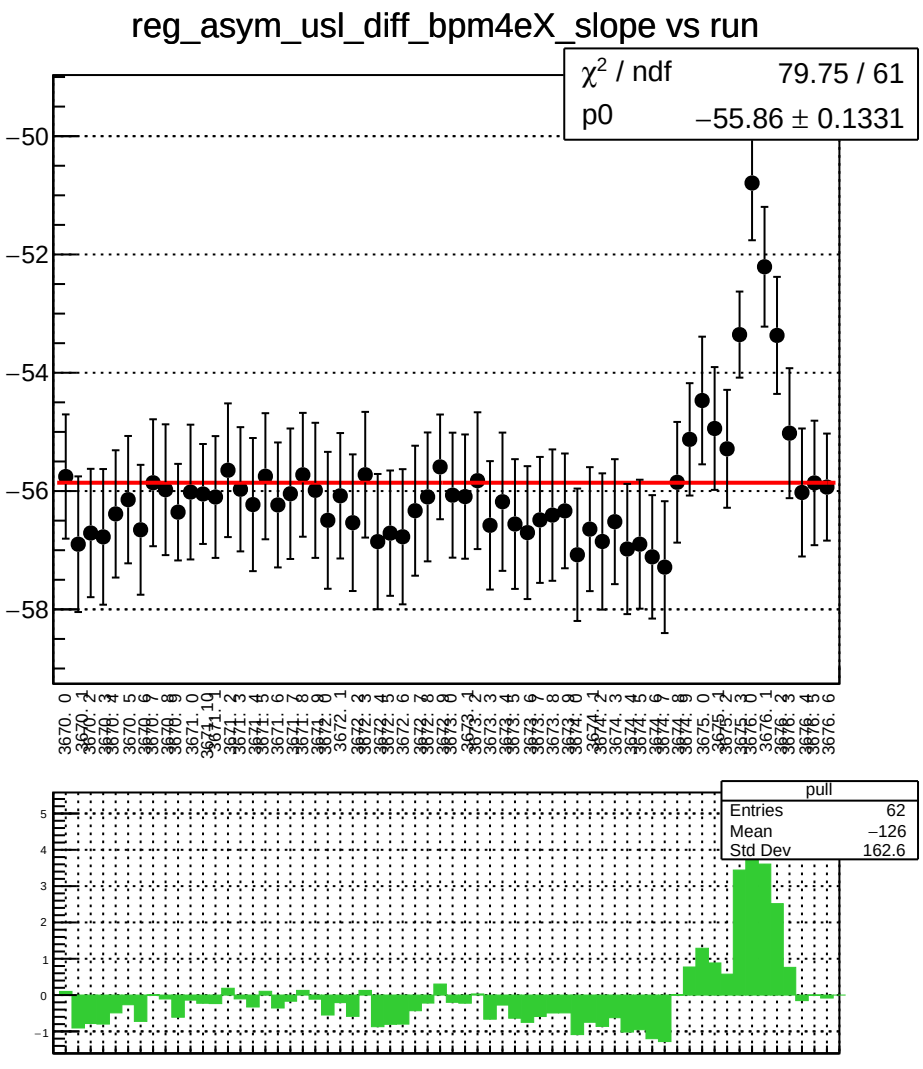

pull1D
Entries 62
Mean −0.001763
Std Dev 0.2368

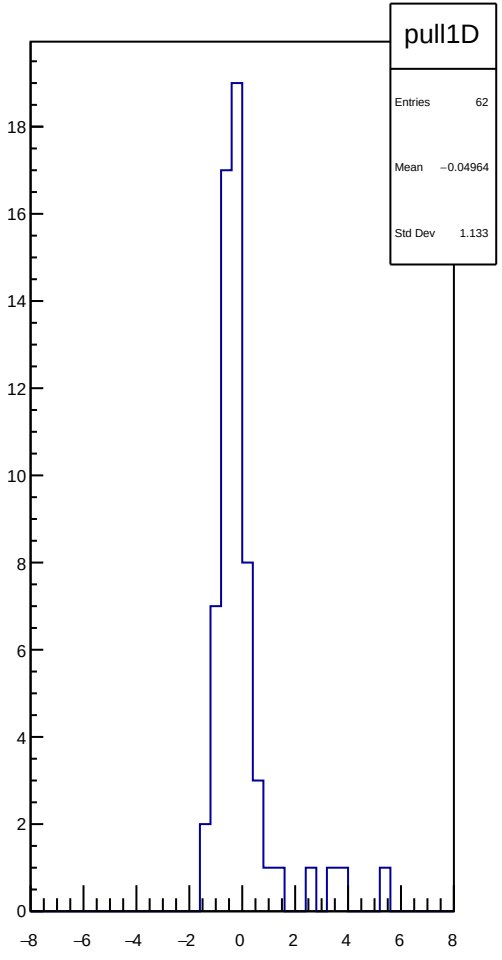

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 4.168 / 61
p0 −3.217 ± 0.9507
pull
Entries 62
Mean −578.7
Std Dev 608.3
pull1D
Entries 62
Mean 0.005423
Std Dev 0.2592

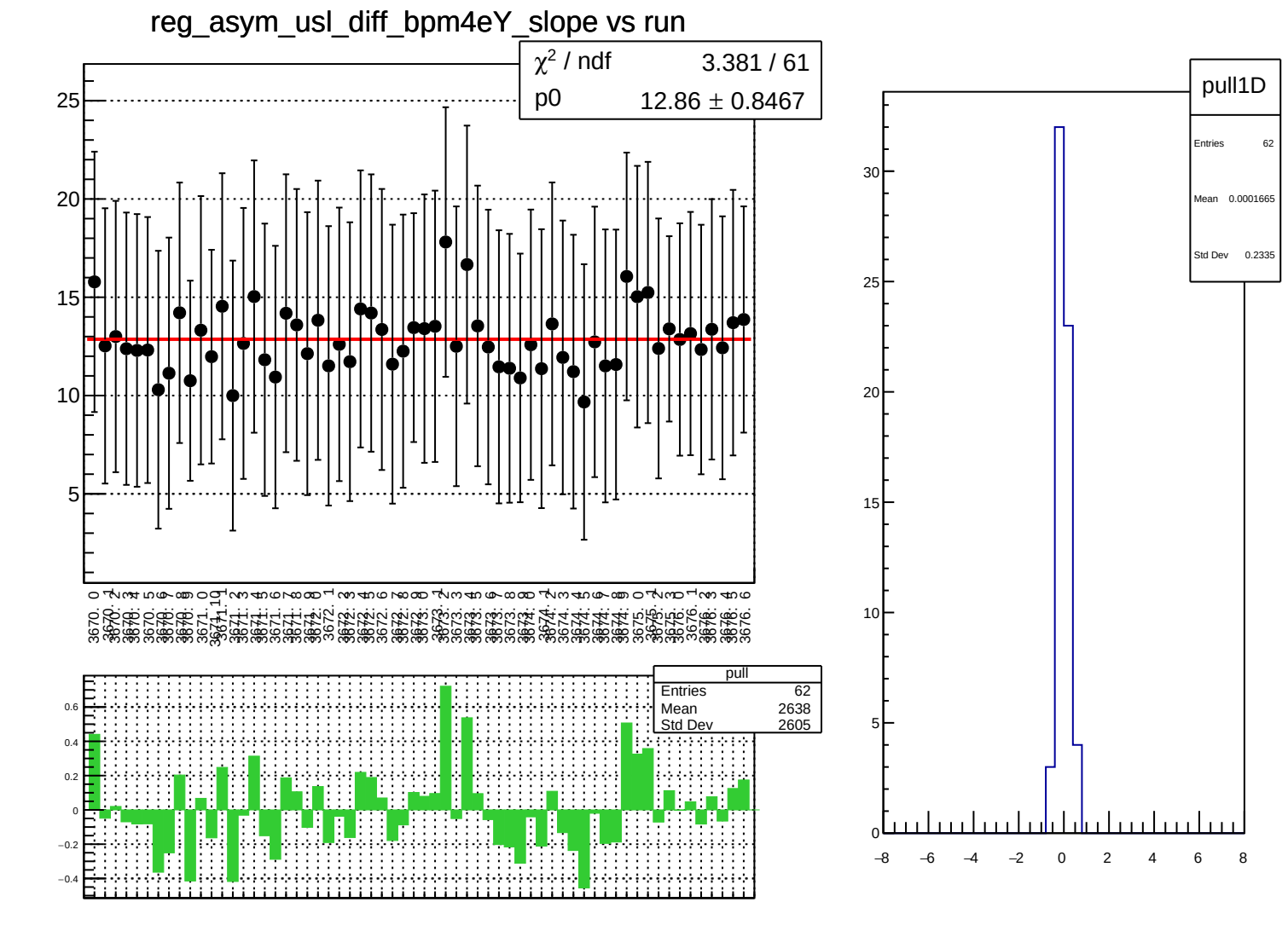

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 6.413 / 61
p0 13.9 ± 0.6952
pull
Entries 62
Mean −58.6
Std Dev 88.76

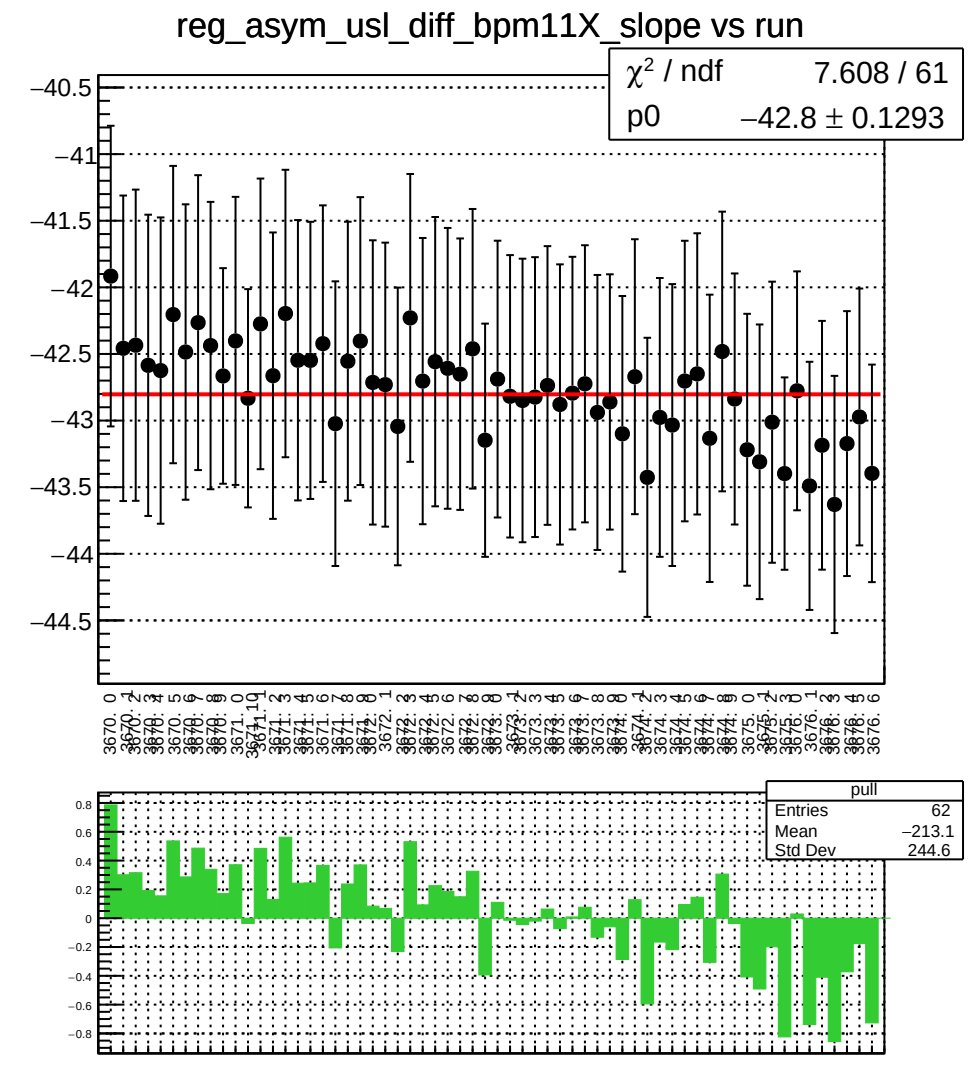

pull1D
Entries 62
Mean 0.009018
Std Dev 0.3215

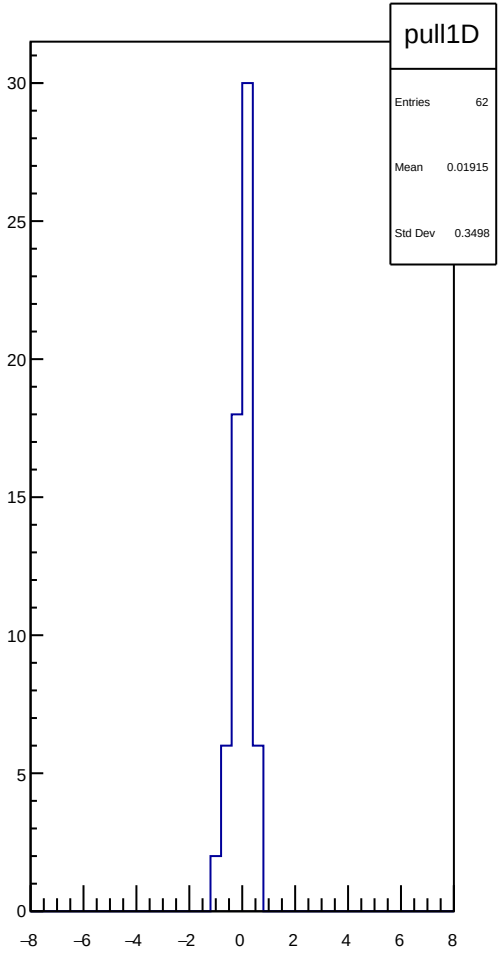

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 3.21 / 61
p0 0.08071 ± 0.5444
pull
Entries 62
Mean −302.9
Std Dev 329
pull1D
Entries 62
Mean −0.001277
Std Dev 0.2276

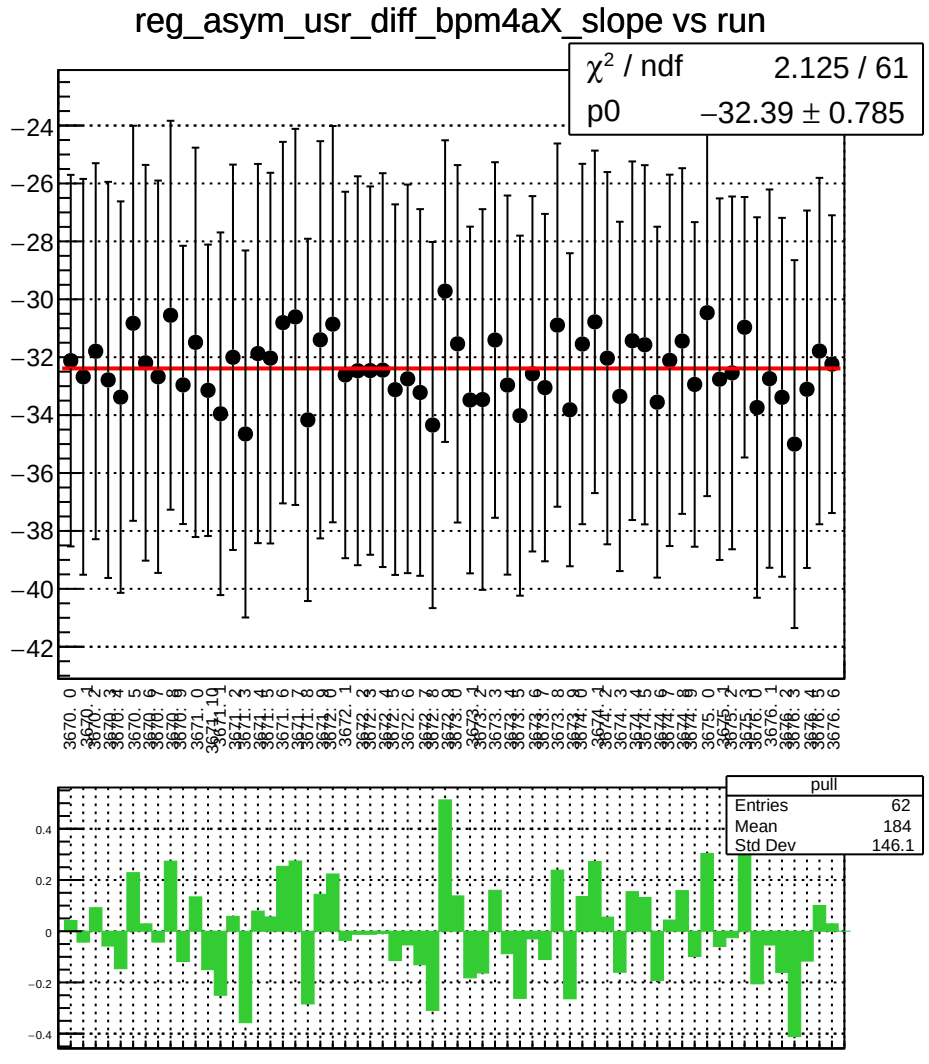

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 79.75 / 61
p0 −55.86 ± 0.1331
−50
−52
−54
−56
−58
pull
Entries 62
Mean −126
Std Dev 162.6
5
4
3
2
1
0
−1

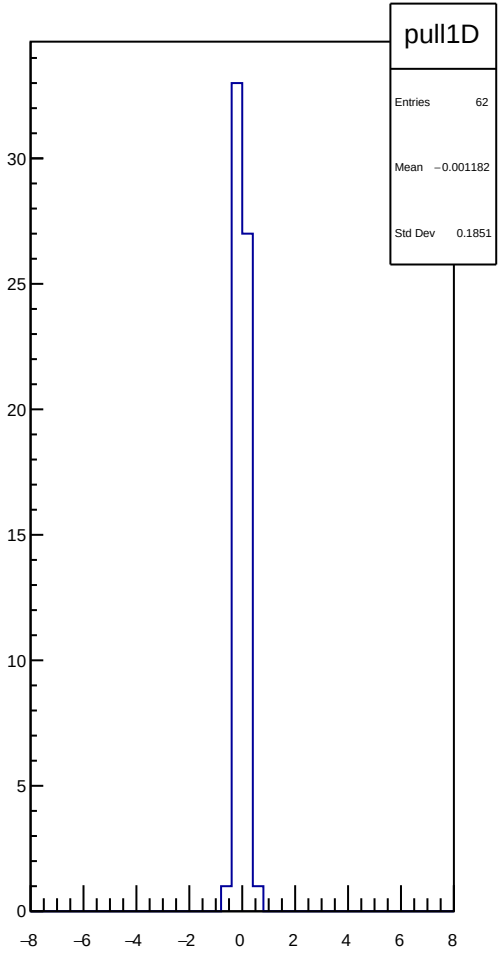

pull1D
Entries 62
Mean −0.04964
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

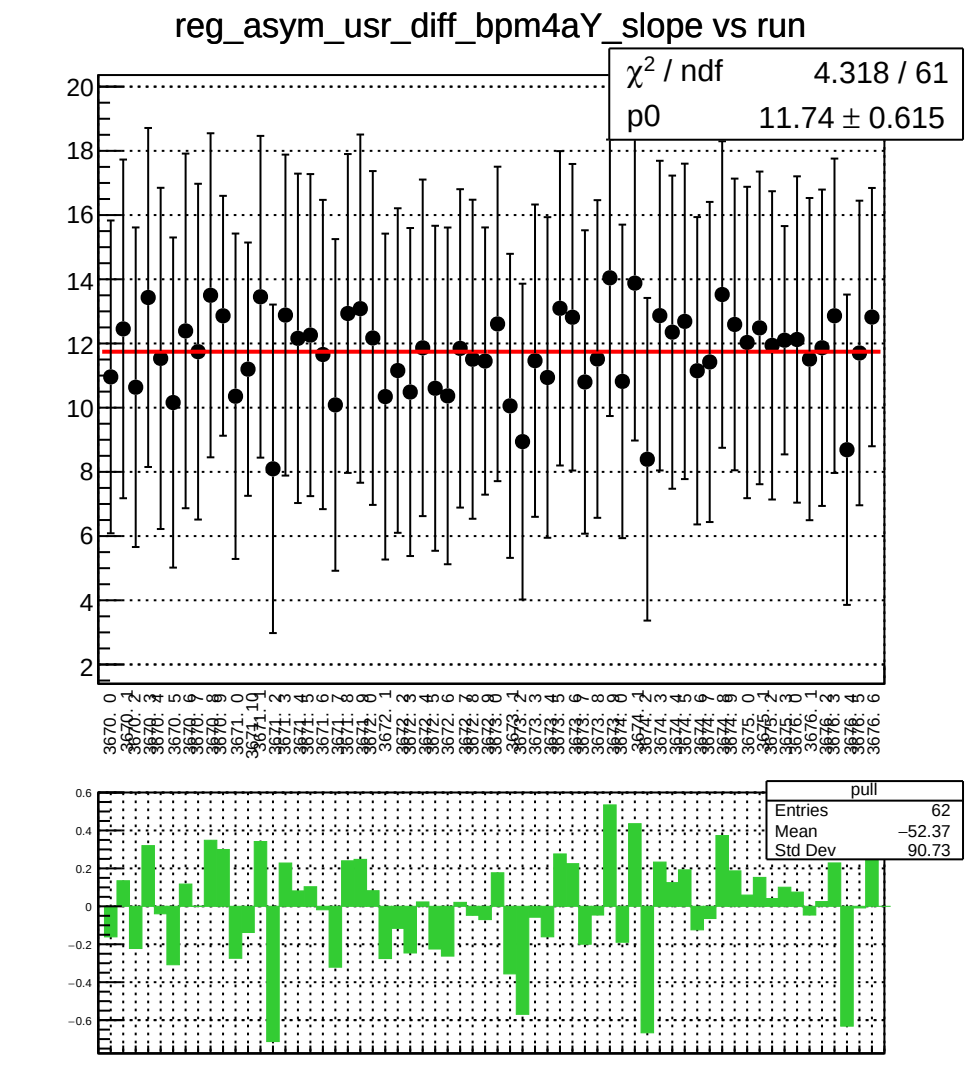

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.381 / 61
p0 12.86 ± 0.8467
pull
Entries 62
Mean 2638
Std Dev 2605
pull1D
Entries 62
Mean 0.0001665
Std Dev 0.2335

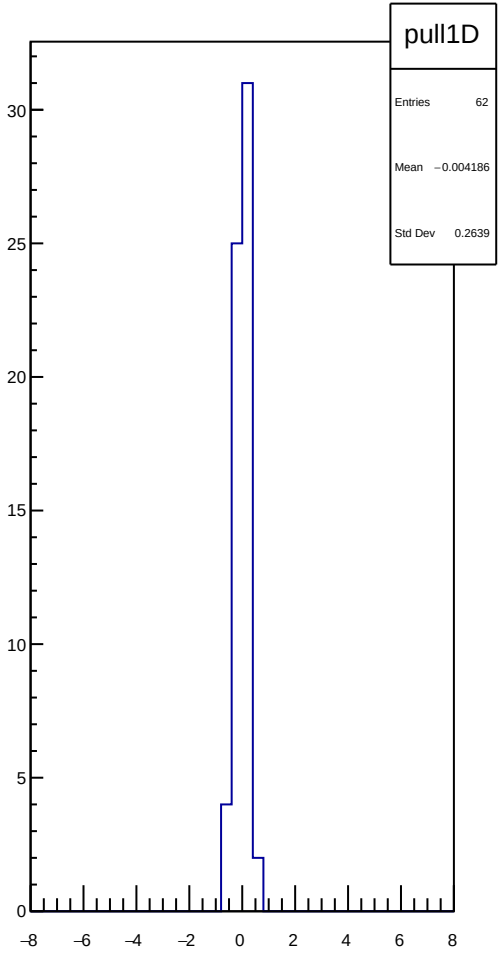

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 7.608 / 61
p0 −42.8 ± 0.1293
pull
Entries 62
Mean −213.1
Std Dev 244.6

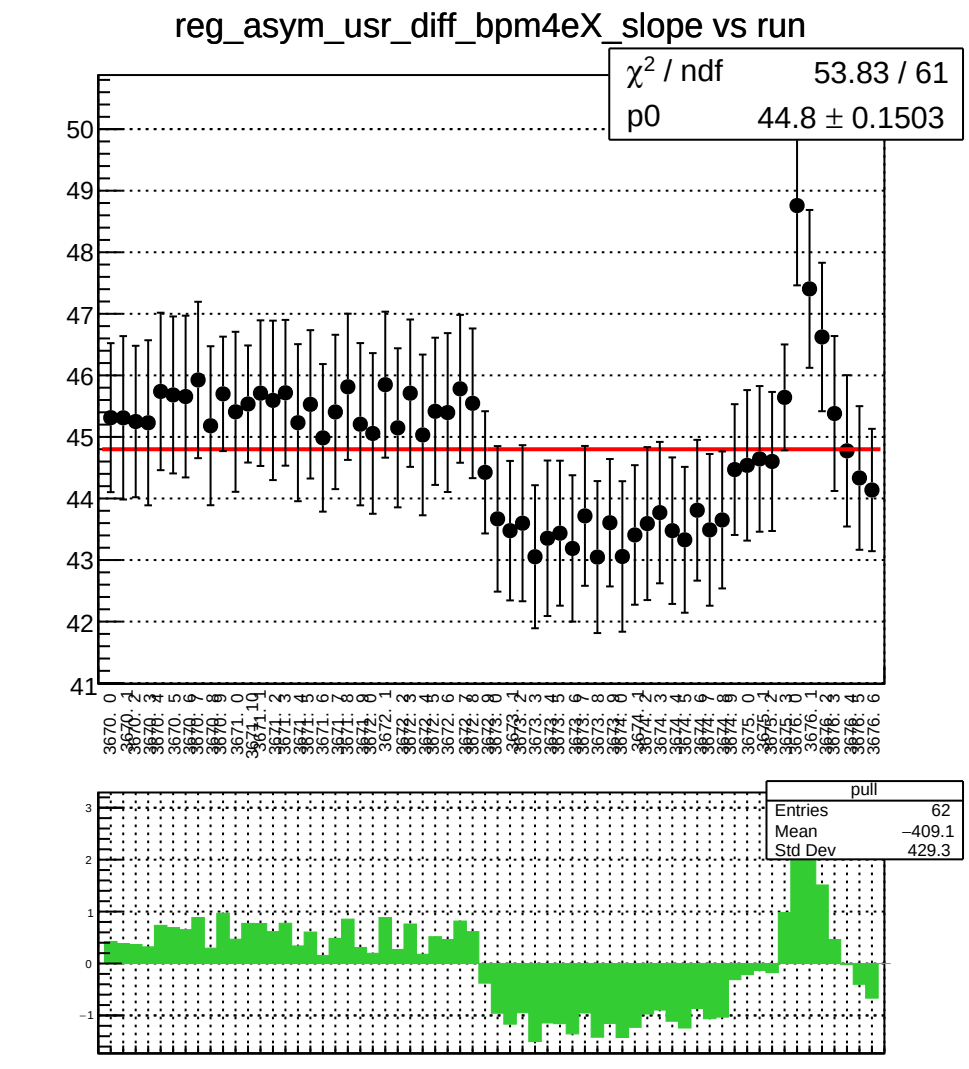

pull1D
Entries 62
Mean 0.01915
Std Dev 0.3498

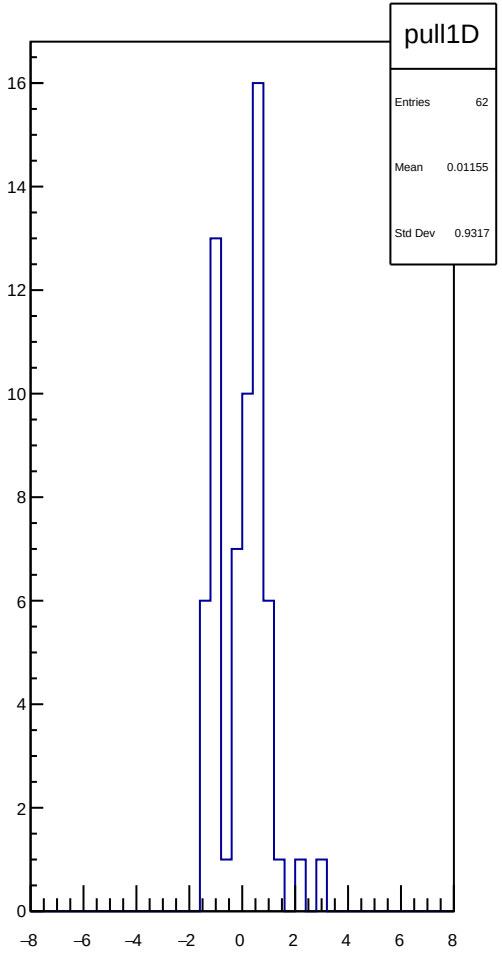

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 2.125 / 61
p0 −32.39 ± 0.785
pull
Entries 62
Mean 184
Std Dev 146.1

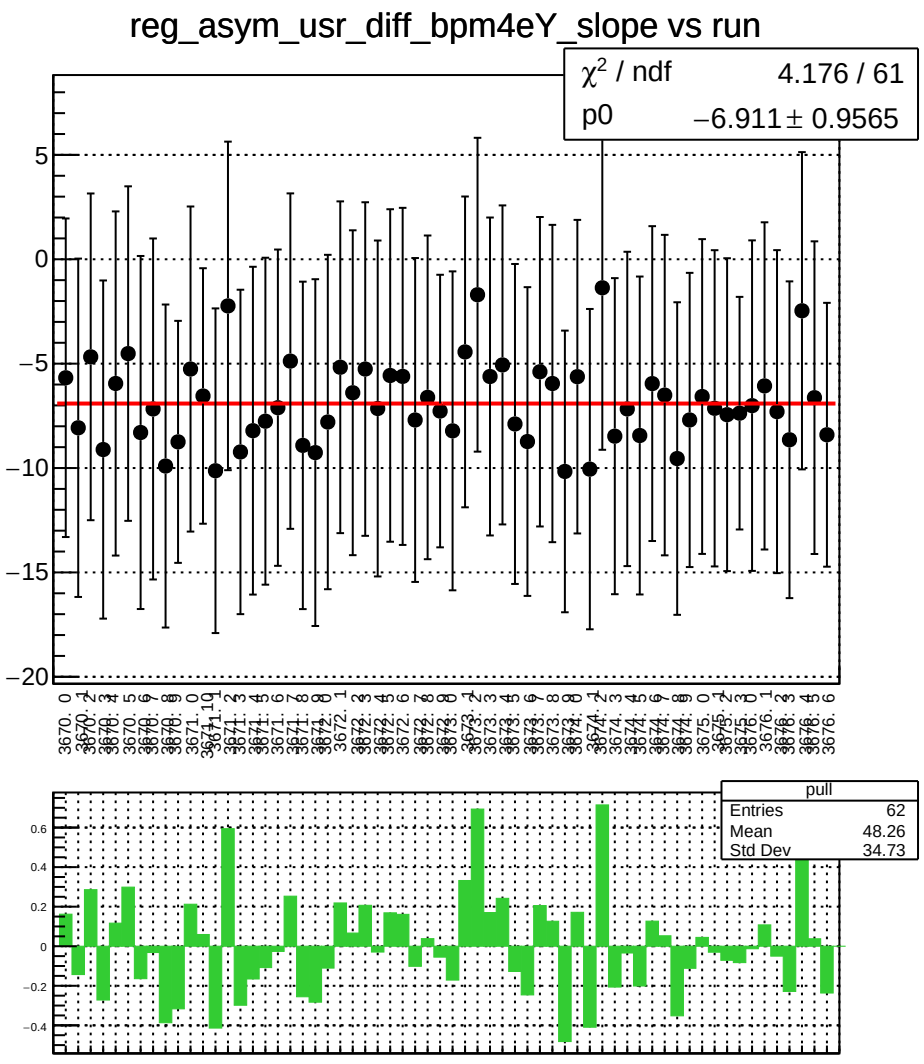

pull1D
Entries 62
Mean −0.001182
Std Dev 0.1851

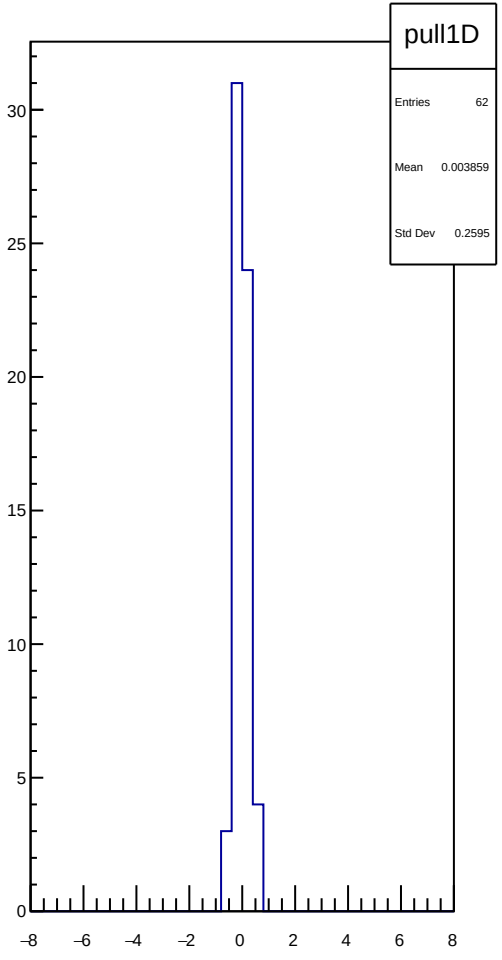

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 4.318 / 61
p0 11.74 ± 0.615
pull
Entries 62
Mean −52.37
Std Dev 90.73

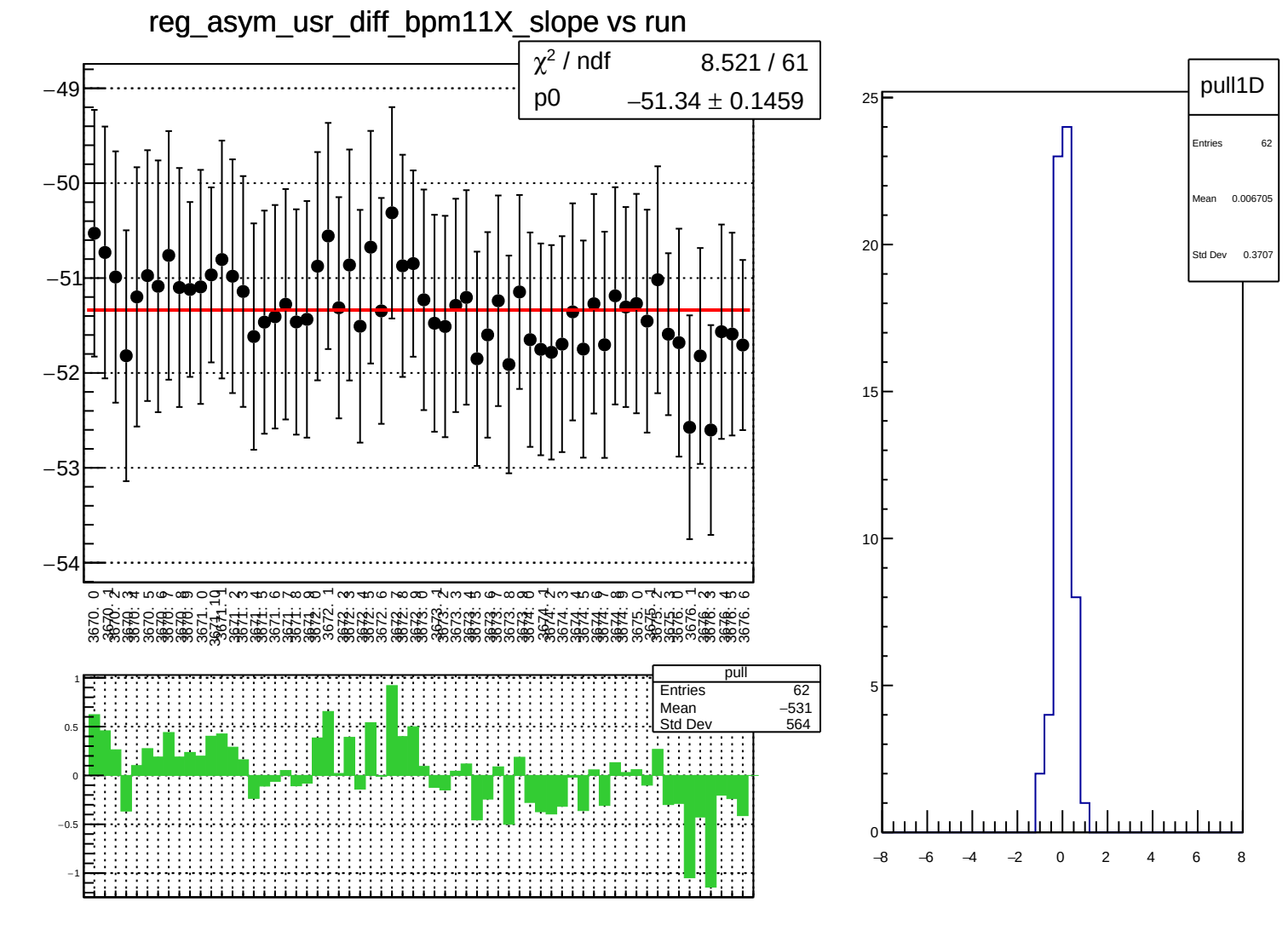

pull1D
Entries 62
Mean −0.004186
Std Dev 0.2639

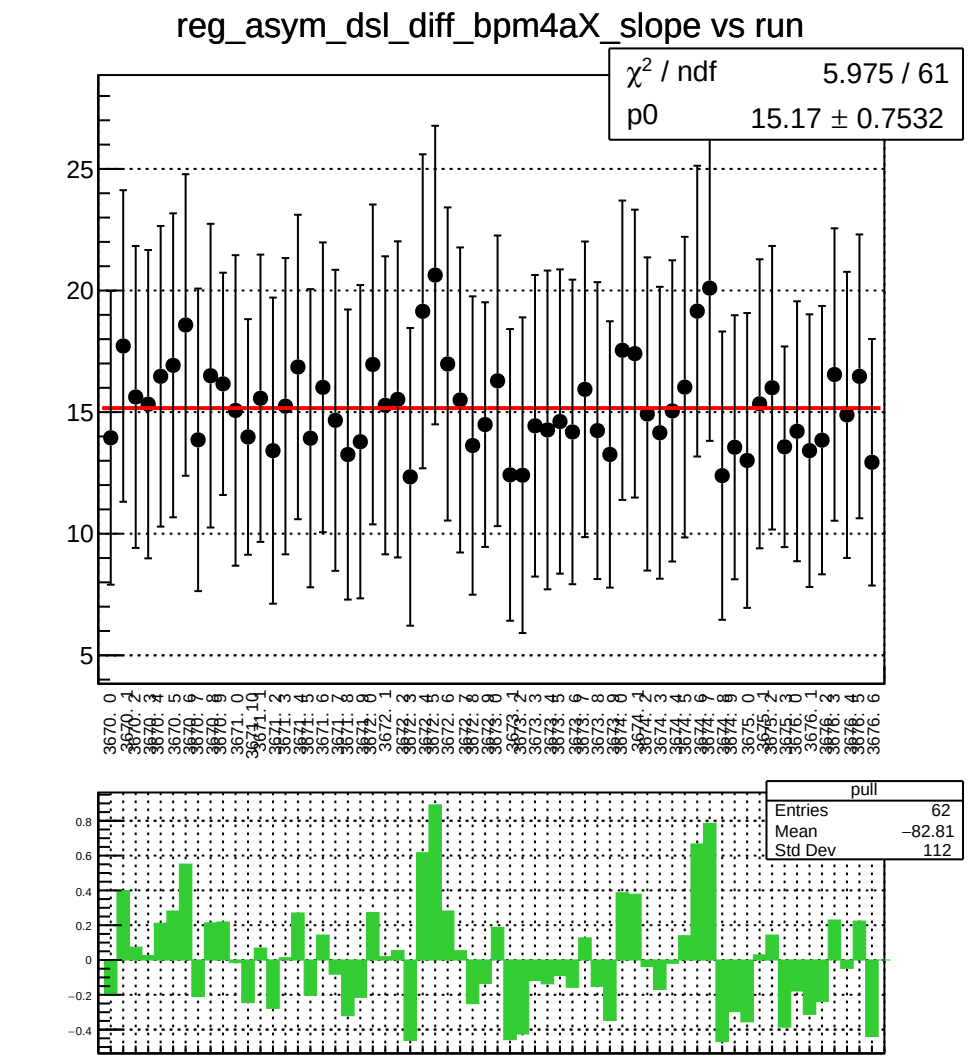

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 53.83 / 61
p0 44.8 ± 0.1503
pull
Entries 62
Mean −409.1
Std Dev 429.3

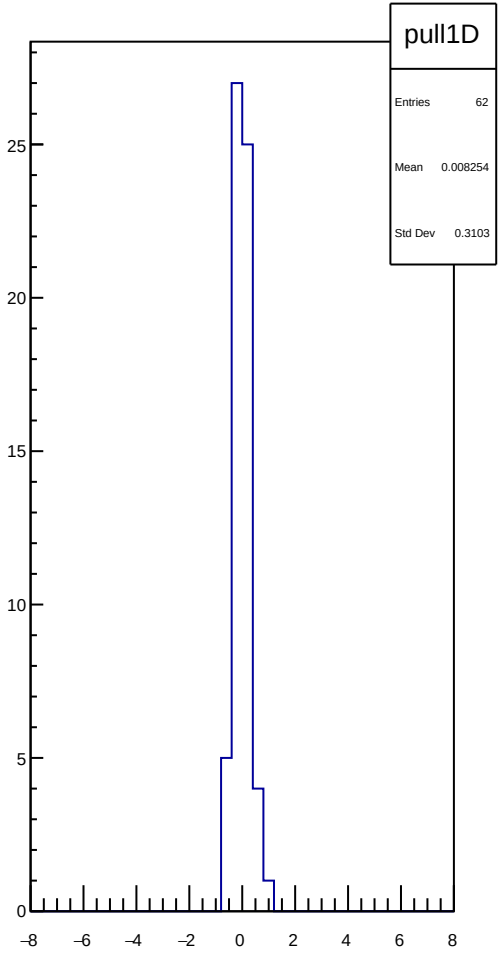

pull1D
Entries 62
Mean 0.01155
Std Dev 0.9317

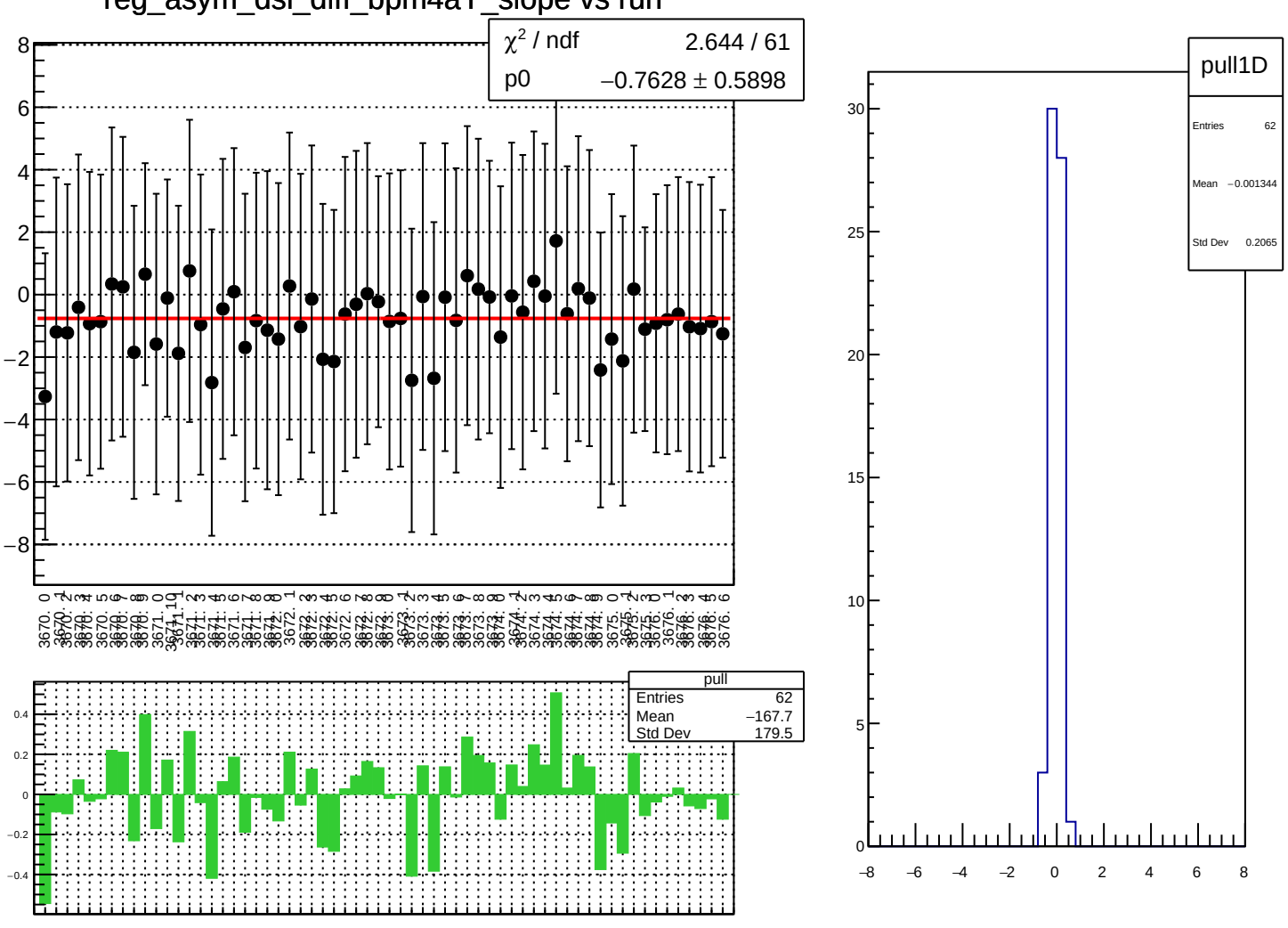

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 4.176 / 61
p0 −6.911 ± 0.9565
pull
Entries 62
Mean 48.26
Std Dev 34.73

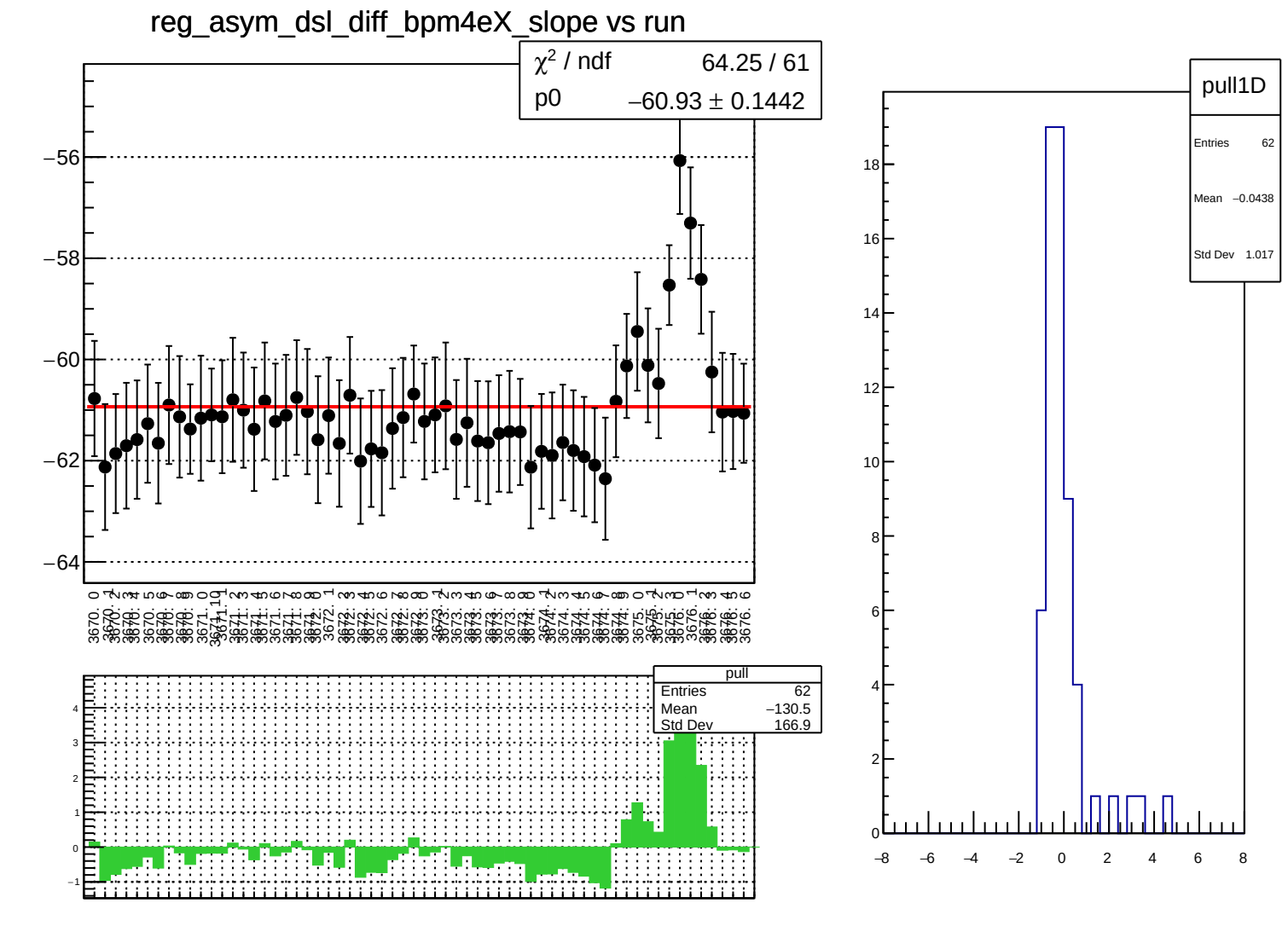

pull1D
Entries 62
Mean 0.003859
Std Dev 0.2595

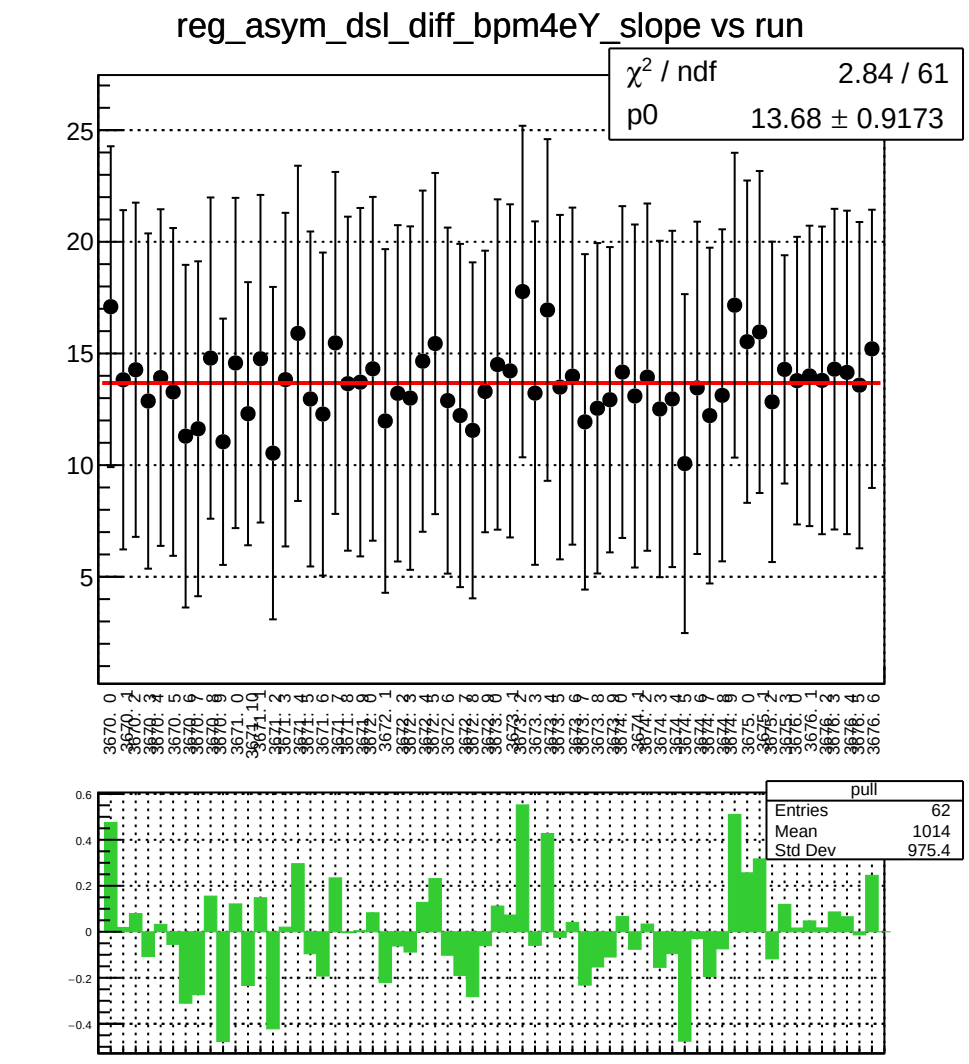

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 8.521 / 61
p0 −51.34 ± 0.1459
pull
Entries 62
Mean −531
Std Dev 564
pull1D
Entries 62
Mean 0.006705
Std Dev 0.3707

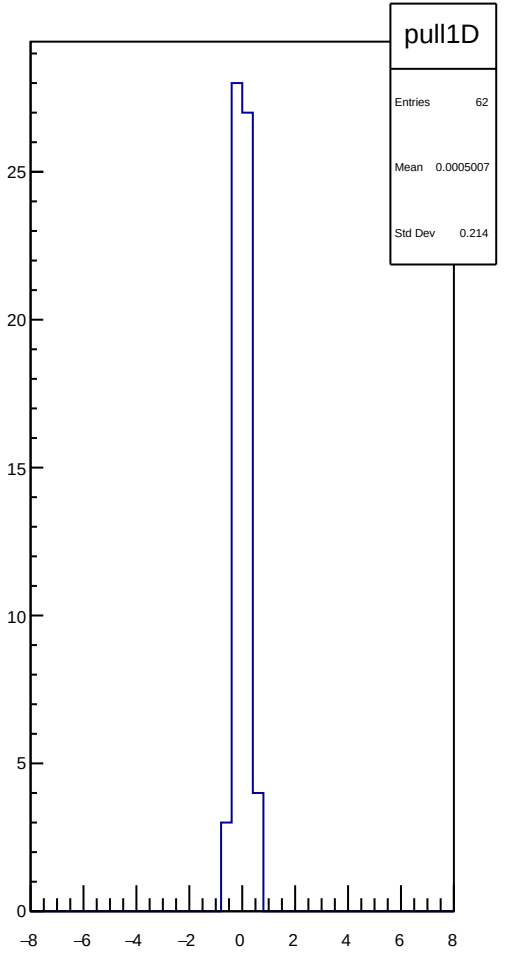

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 5.975 / 61
p0 15.17 ± 0.7532
pull
Entries 62
Mean −82.81
Std Dev 112

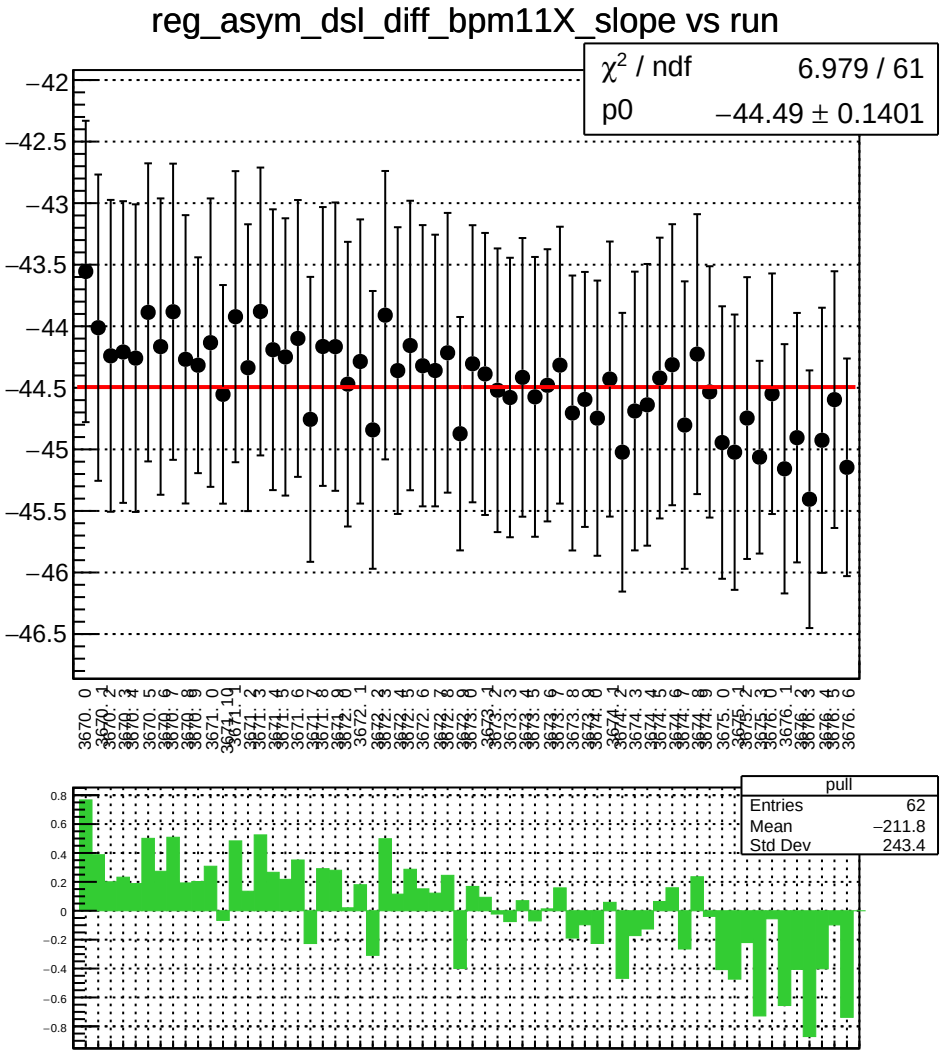

pull1D
Entries 62
Mean 0.008254
Std Dev 0.3103

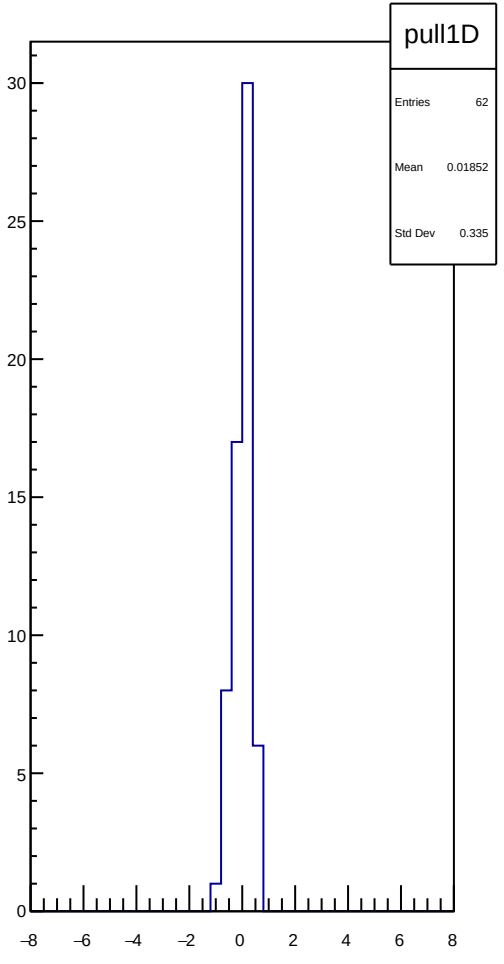

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 2.644 / 61
p0 −0.7628 ± 0.5898
pull
Entries 62
Mean −167.7
Std Dev 179.5
pull1D
Entries 62
Mean −0.001344
Std Dev 0.2065

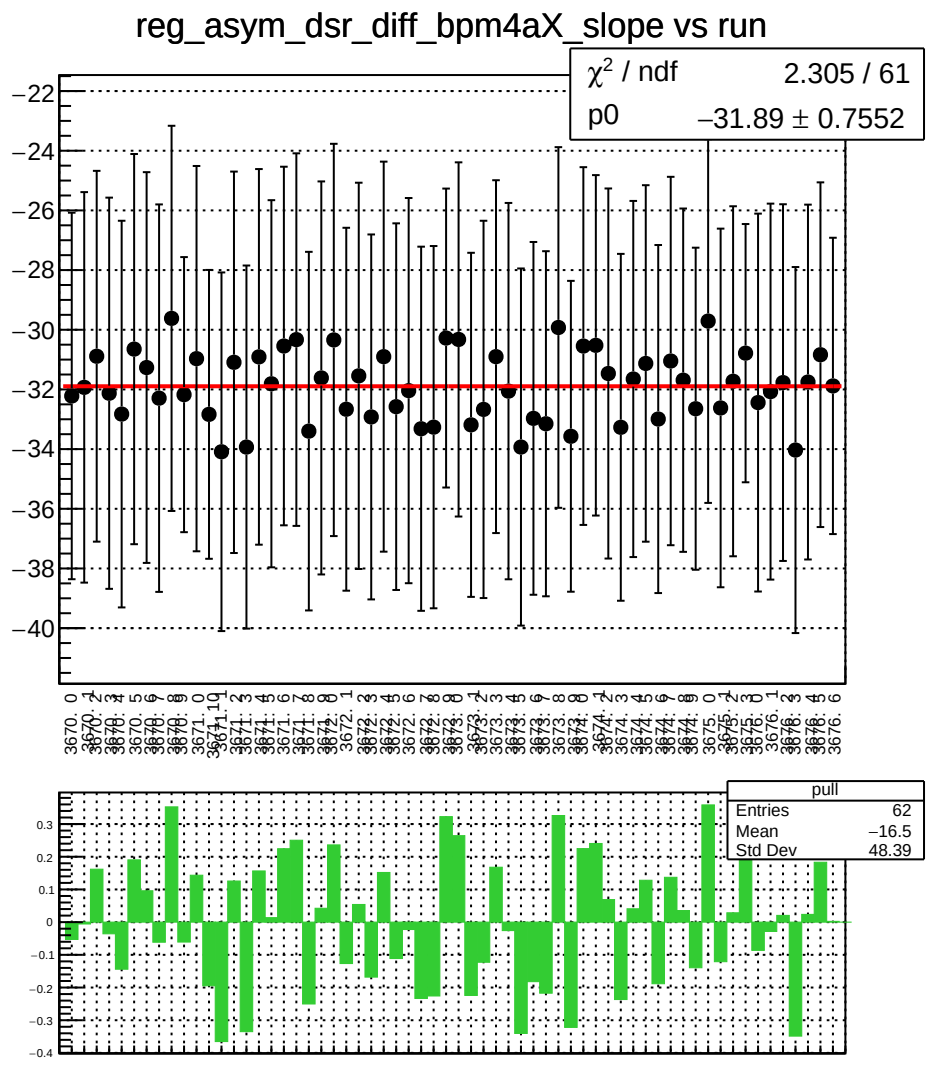

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 64.25 / 61
p0 −60.93 ± 0.1442
pull
Entries 62
Mean −130.5
Std Dev 166.9
pull1D
Entries 62
Mean −0.0438
Std Dev 1.017

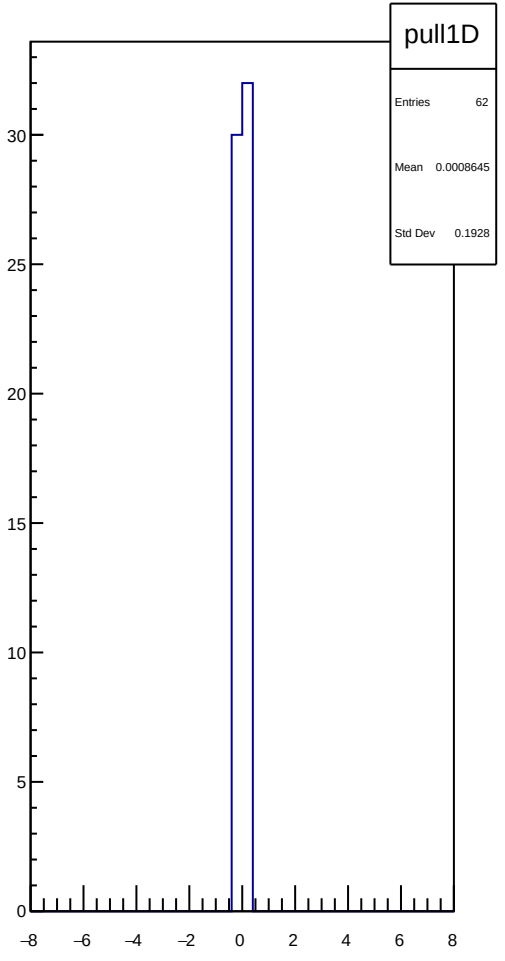

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 2.84 / 61
p0 13.68 ± 0.9173
pull
Entries 62
Mean 1014
Std Dev 975.4

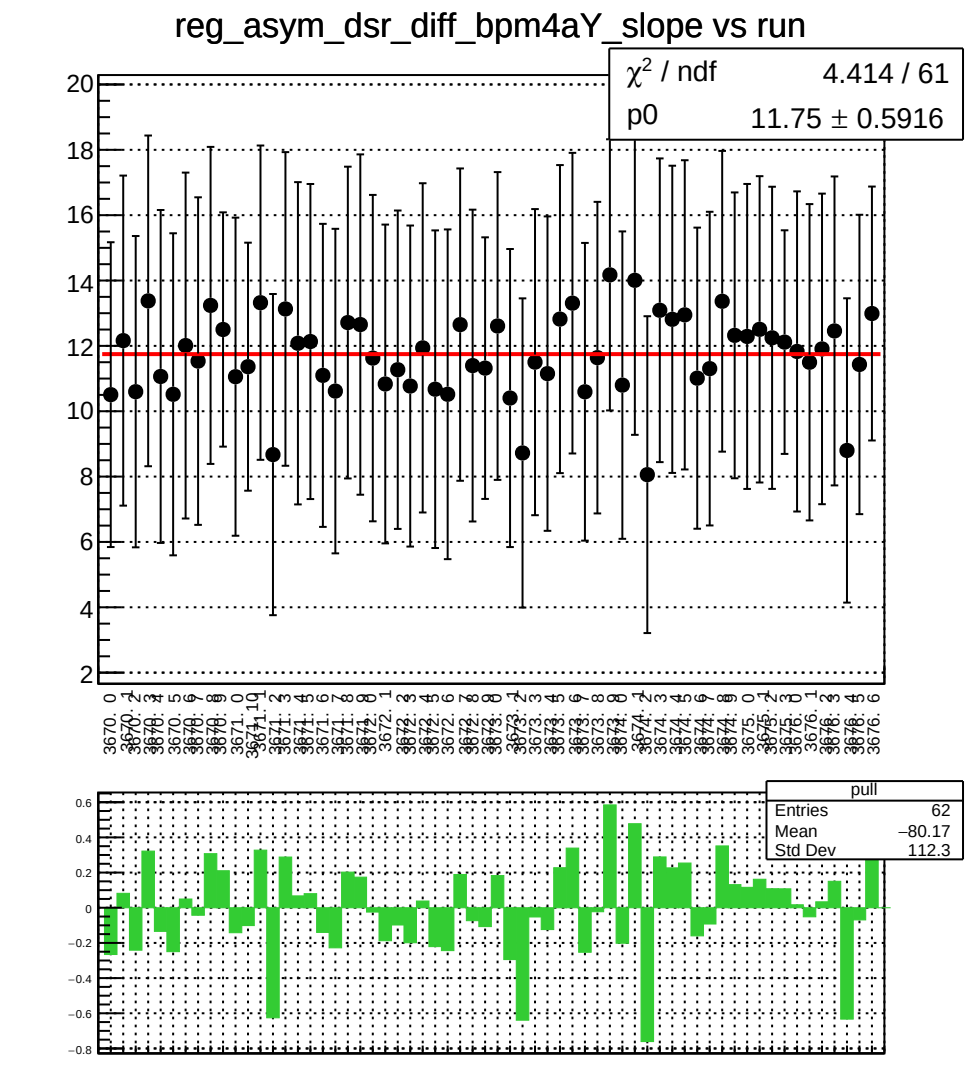

pull1D
Entries 62
Mean 0.0005007
Std Dev 0.214

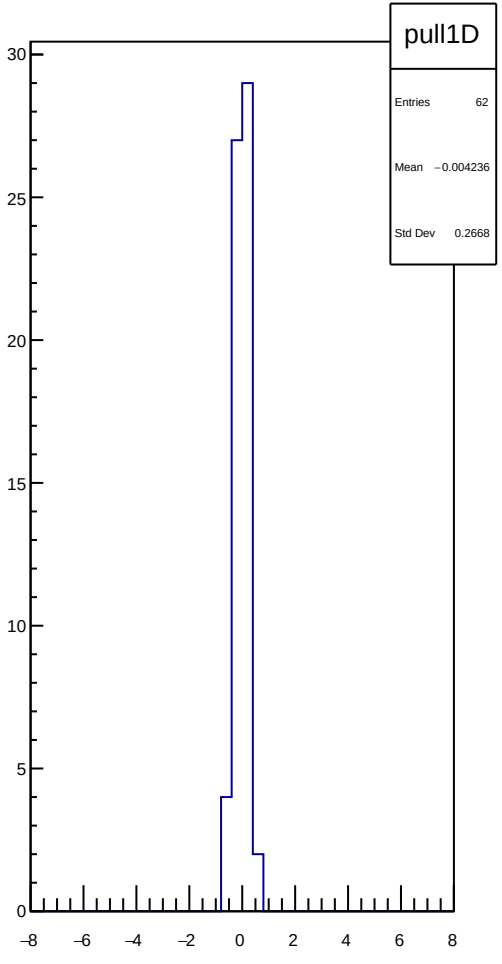

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 6.979 / 61
p0 −44.49 ± 0.1401
pull
Entries 62
Mean −211.8
Std Dev 243.4

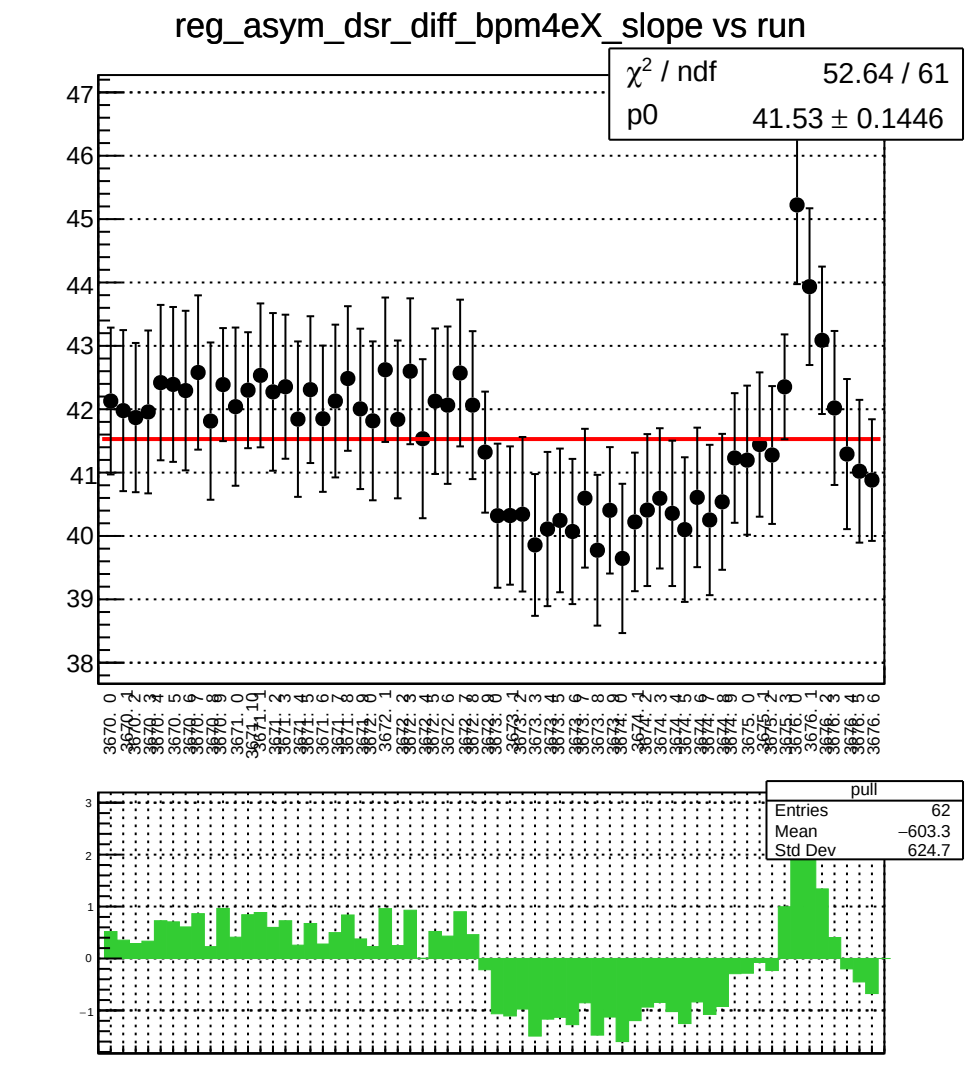

pull1D
Entries 62
Mean 0.01852
Std Dev 0.335

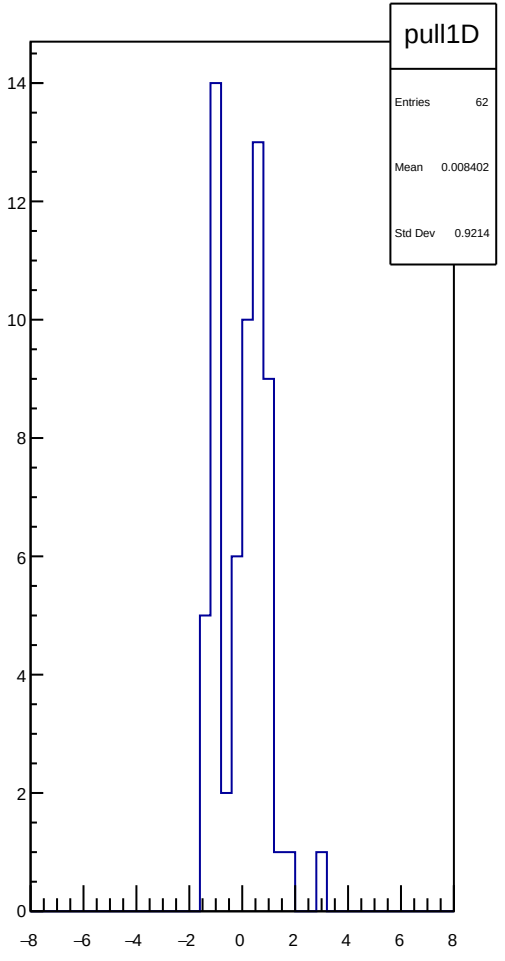

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 2.305 / 61
p0 −31.89 ± 0.7552
pull
Entries 62
Mean −16.5
Std Dev 48.39

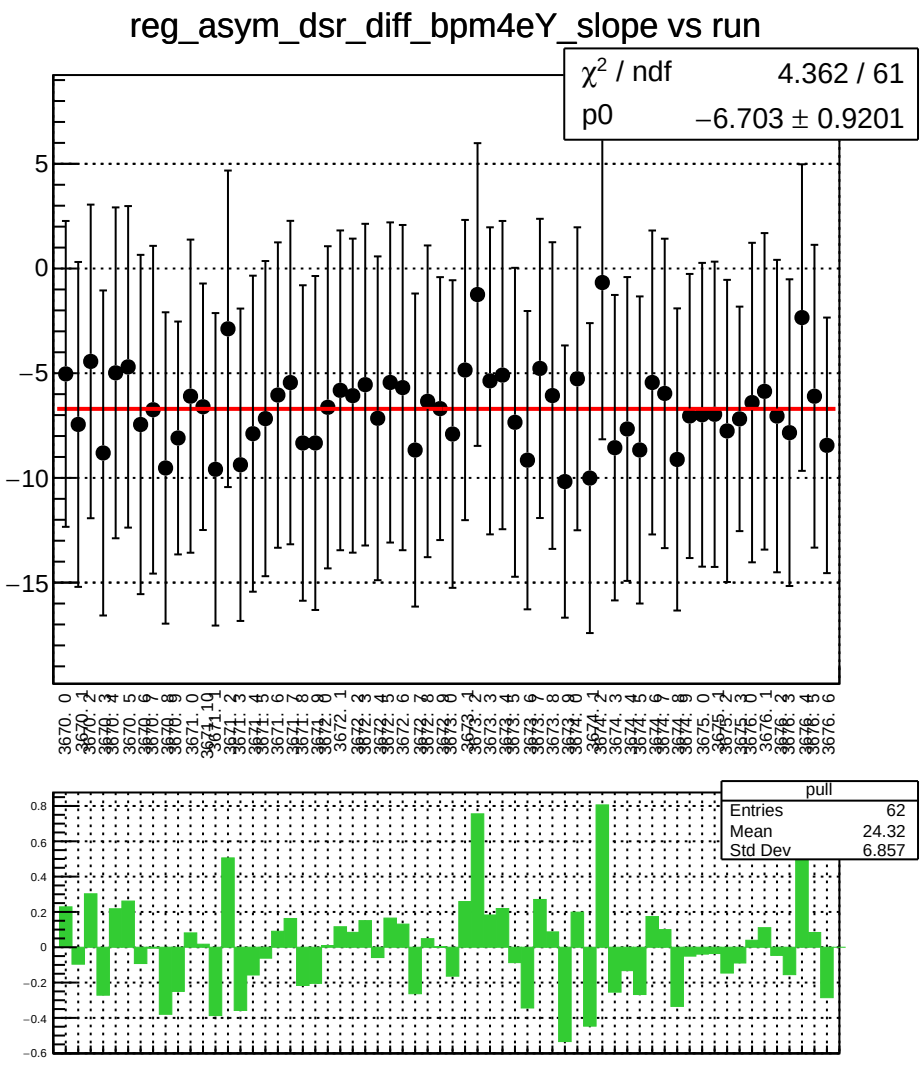

pull1D
Entries 62
Mean 0.0008645
Std Dev 0.1928

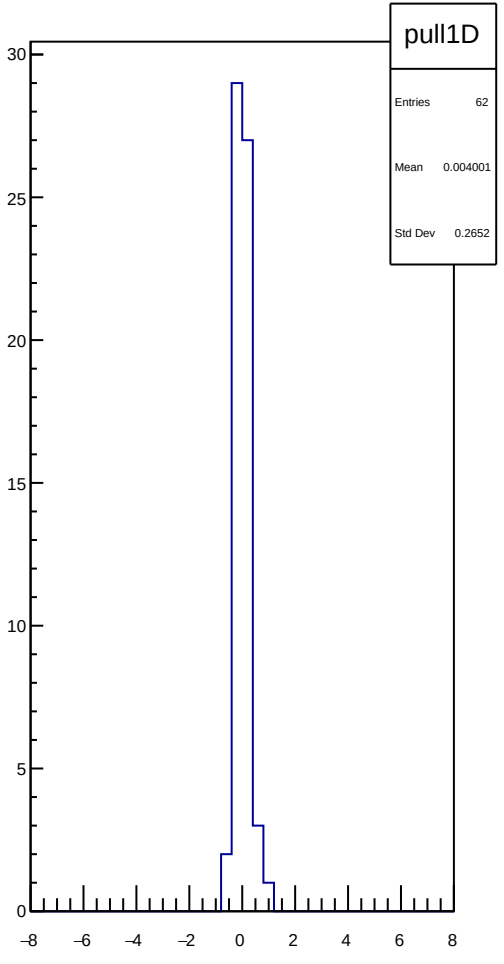

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 4.414 / 61
p0 11.75 ± 0.5916
pull
Entries 62
Mean −80.17
Std Dev 112.3

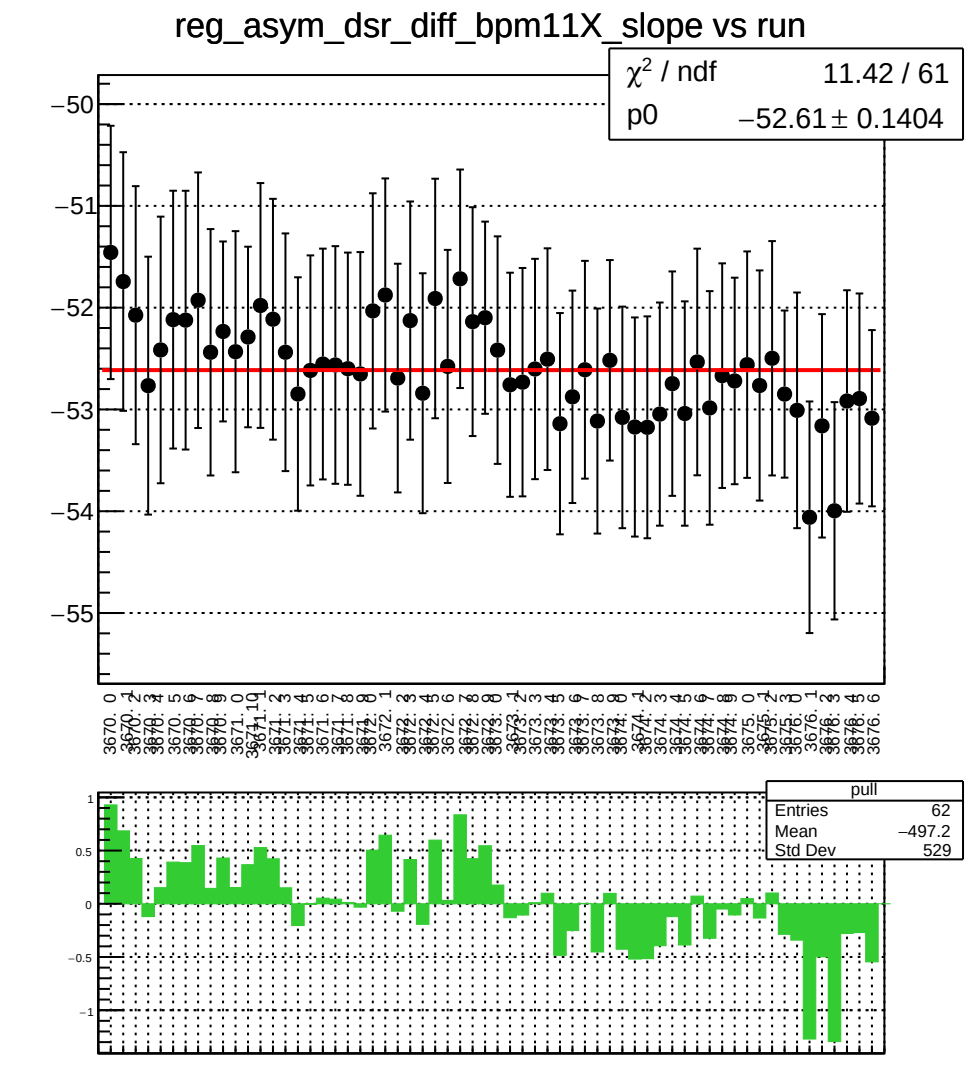

pull1D
Entries 62
Mean −0.004236
Std Dev 0.2668

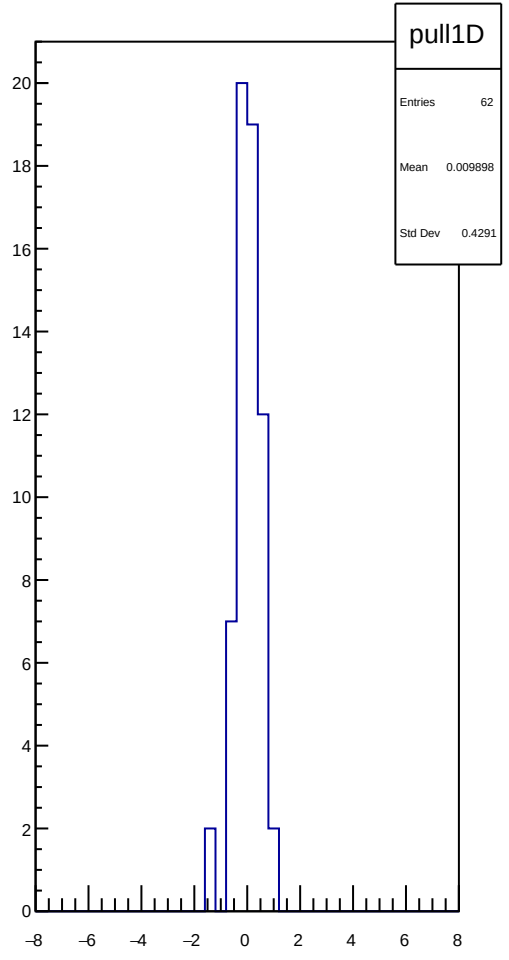

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 52.64 / 61
p0 41.53 ± 0.1446
pull
Entries 62
Mean −603.3
Std Dev 624.7

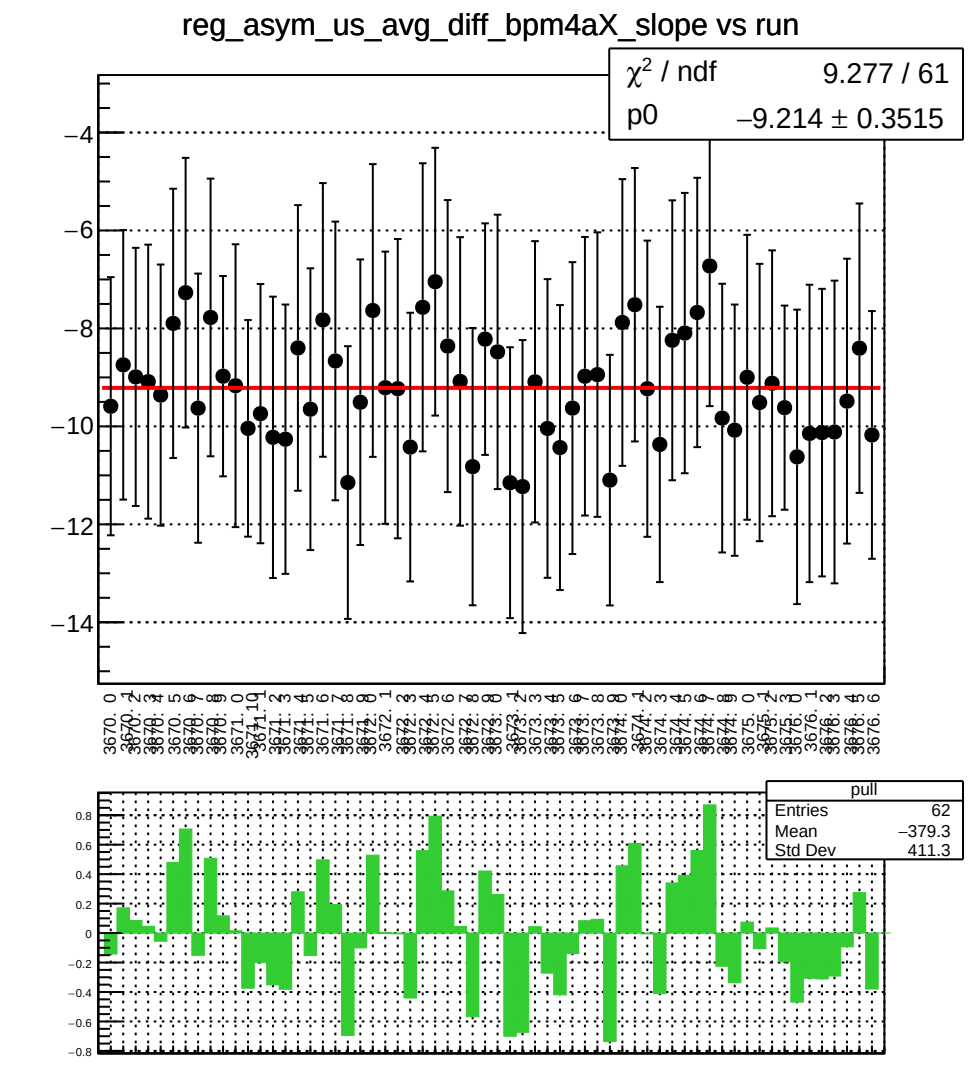

pull1D
Entries 62
Mean 0.008402
Std Dev 0.9214

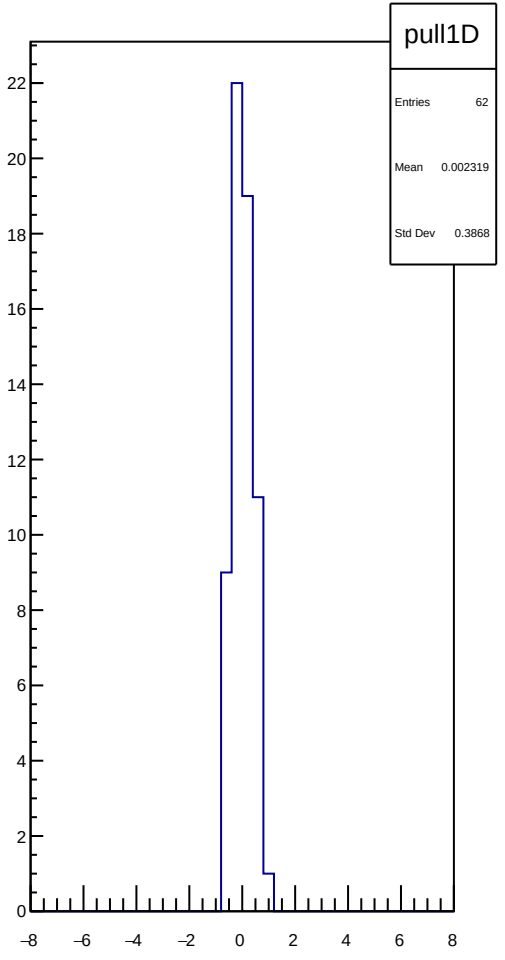

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 4.362 / 61
p0 −6.703 ± 0.9201
pull
Entries 62
Mean 24.32
Std Dev 6.857

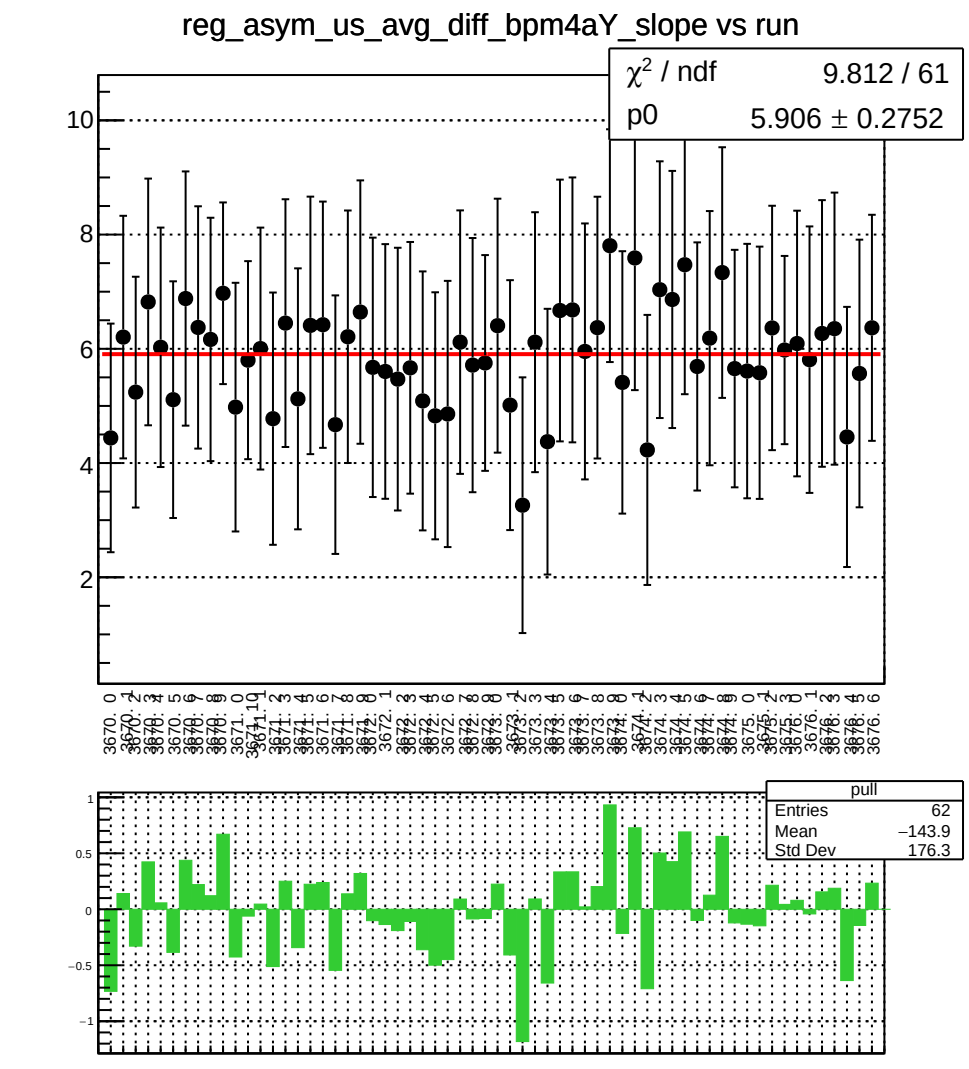

pull1D
Entries 62
Mean 0.004001
Std Dev 0.2652

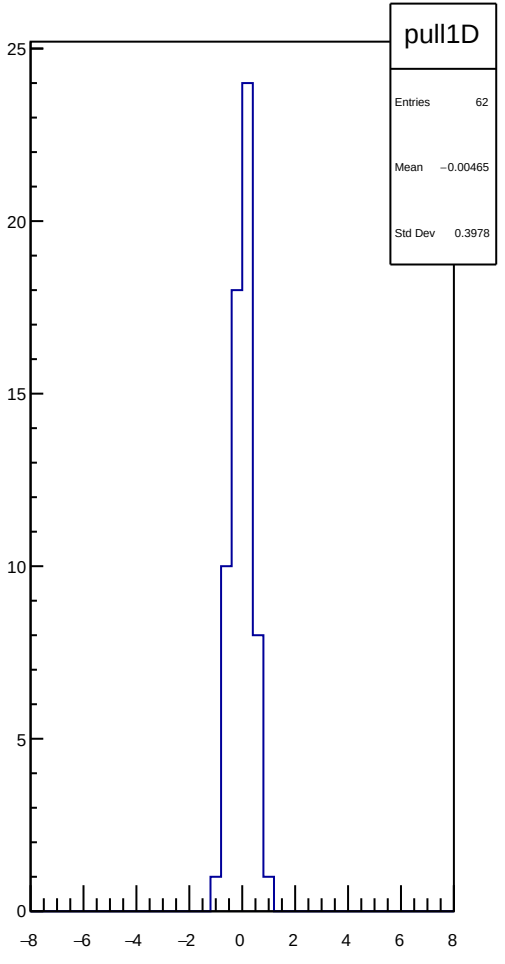

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 11.42 / 61
p0 −52.61 ± 0.1404
pull
Entries 62
Mean −497.2
Std Dev 529

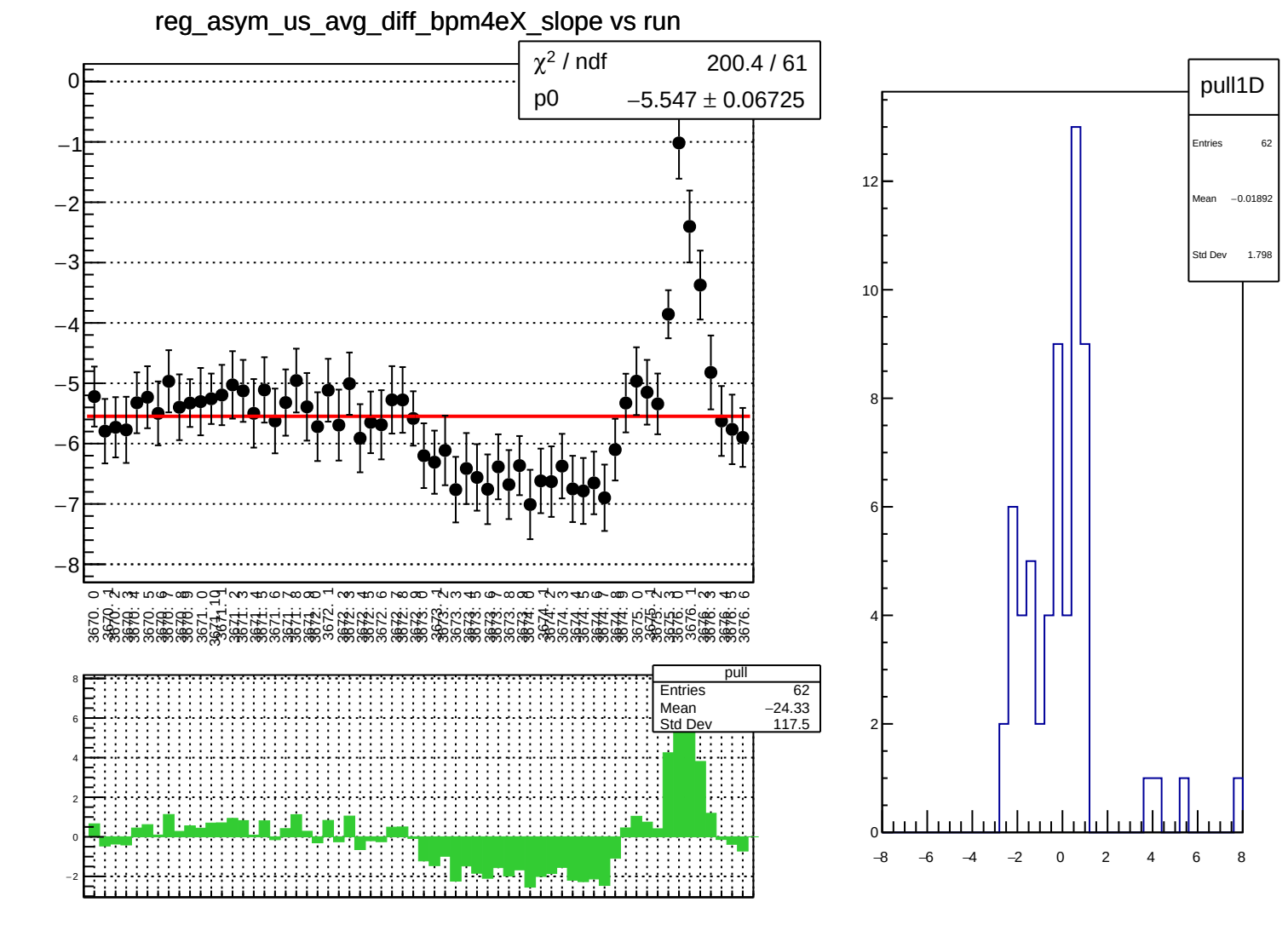

pull1D
Entries 62
Mean 0.009898
Std Dev 0.4291

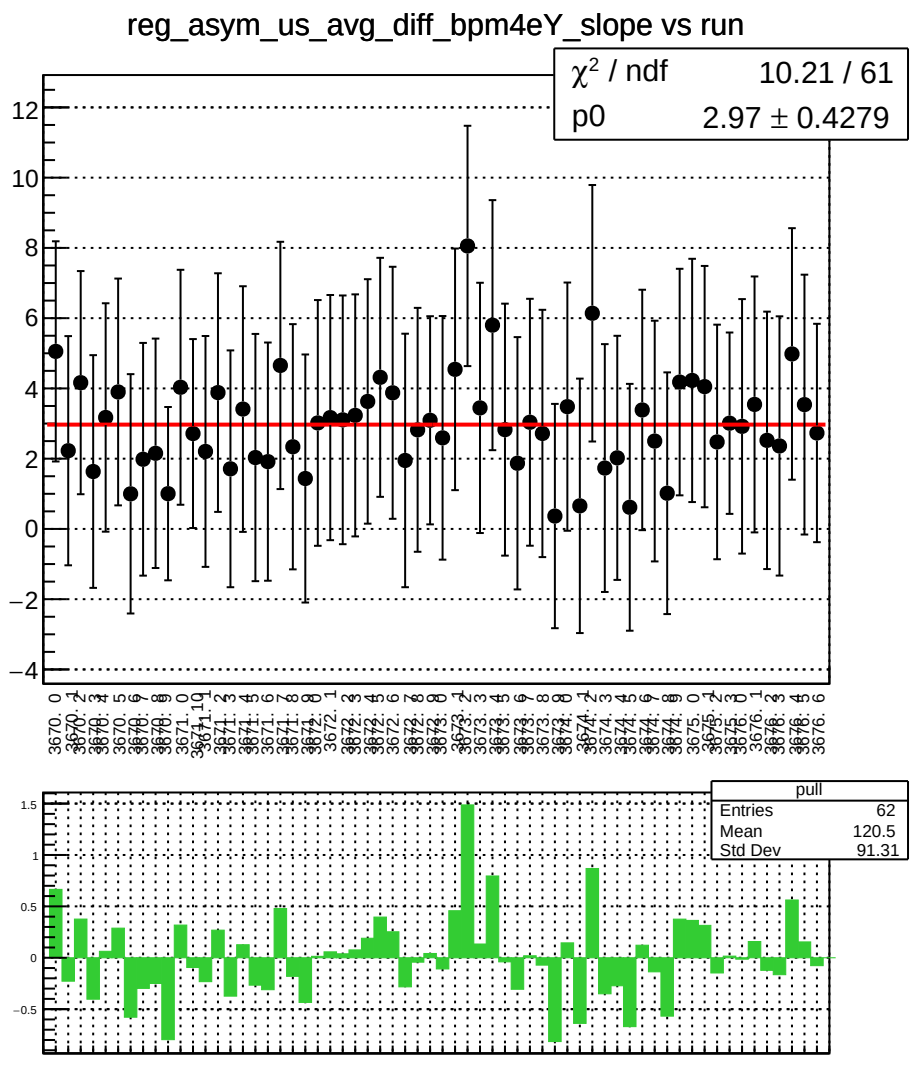

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.277 / 61
p0 −9.214 ± 0.3515
pull
Entries 62
Mean −379.3
Std Dev 411.3

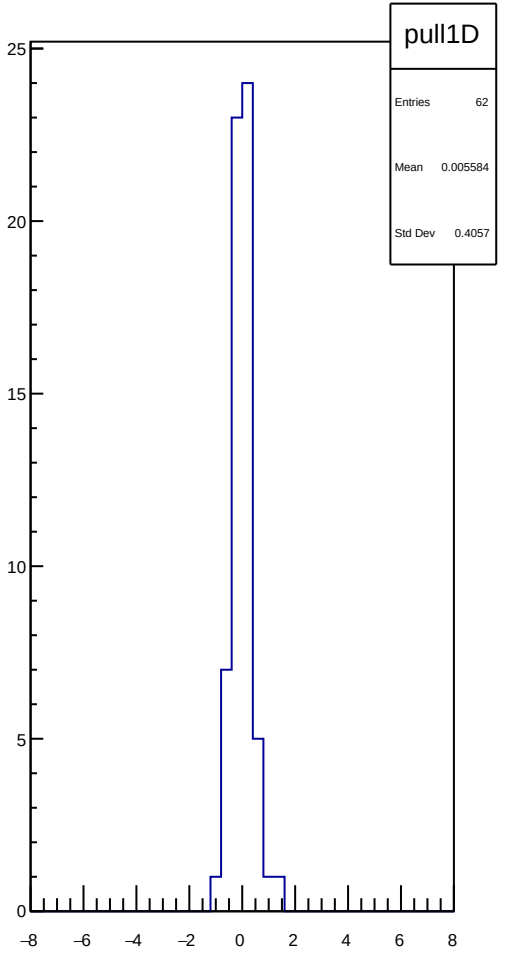

pull1D
Entries 62
Mean 0.002319
Std Dev 0.3868

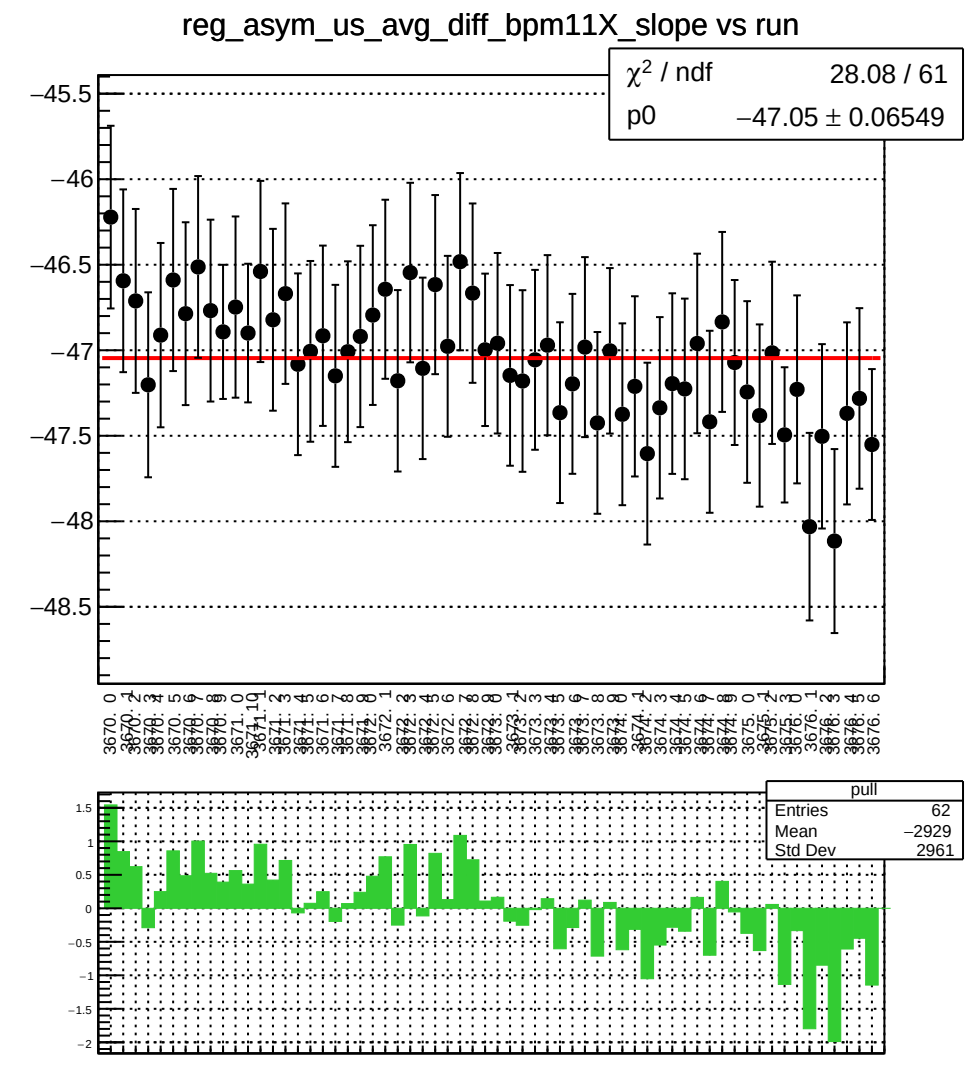

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.812 / 61
p0 5.906 ± 0.2752
pull
Entries 62
Mean −143.9
Std Dev 176.3

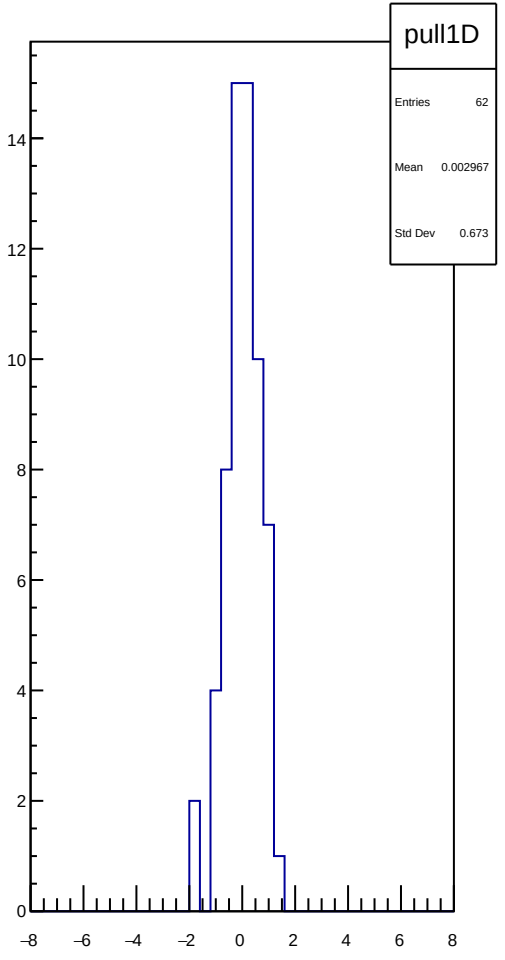

pull1D
Entries 62
Mean −0.00465
Std Dev 0.3978

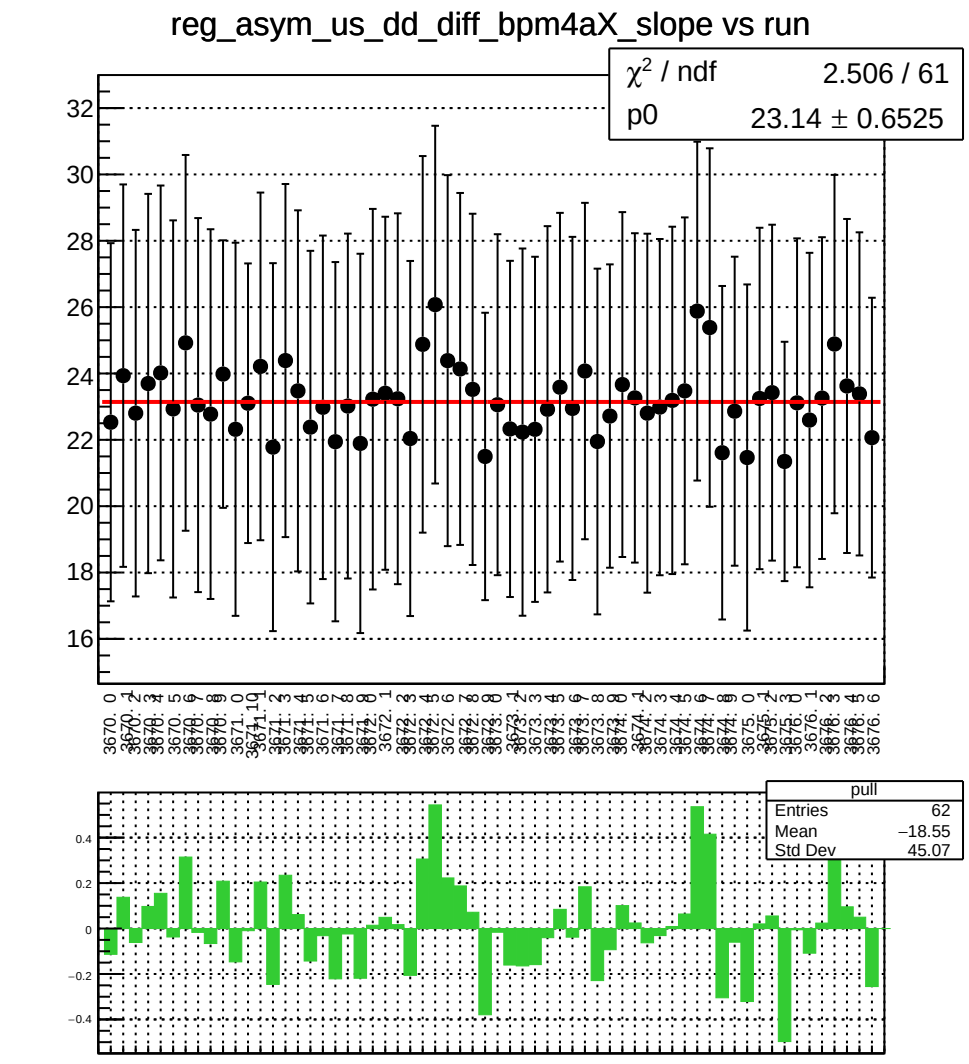

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 200.4 / 61
p0 −5.547 ± 0.06725
pull
Entries 62
Mean −24.33
Std Dev 117.5
pull1D
Entries 62
Mean −0.01892
Std Dev 1.798

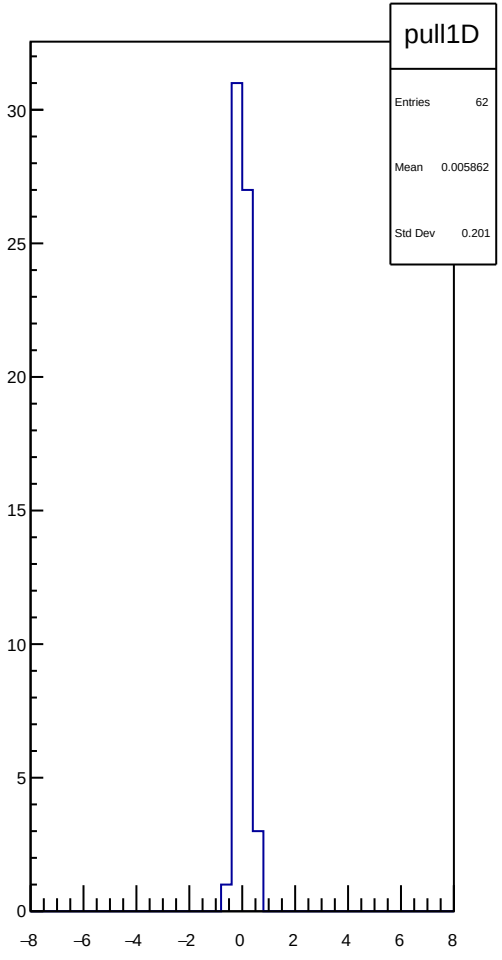

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.21 / 61
p0 2.97 ± 0.4279
pull
Entries 62
Mean 120.5
Std Dev 91.31

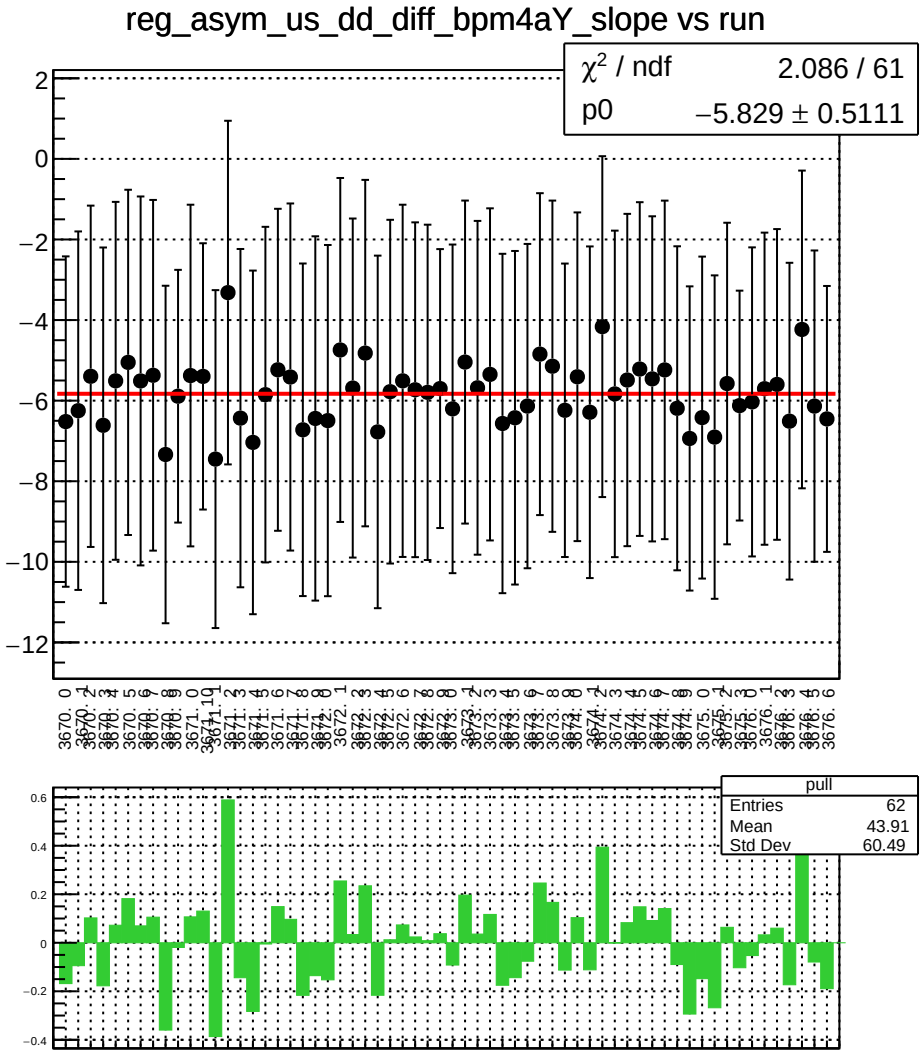

pull1D
Entries 62
Mean 0.005584
Std Dev 0.4057

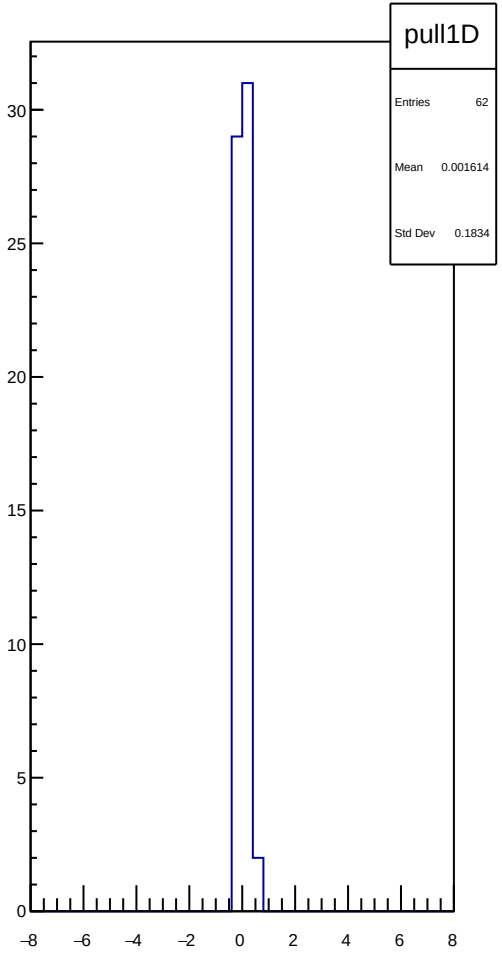

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 28.08 / 61
p0 −47.05 ± 0.06549
pull
Entries 62
Mean −2929
Std Dev 2961

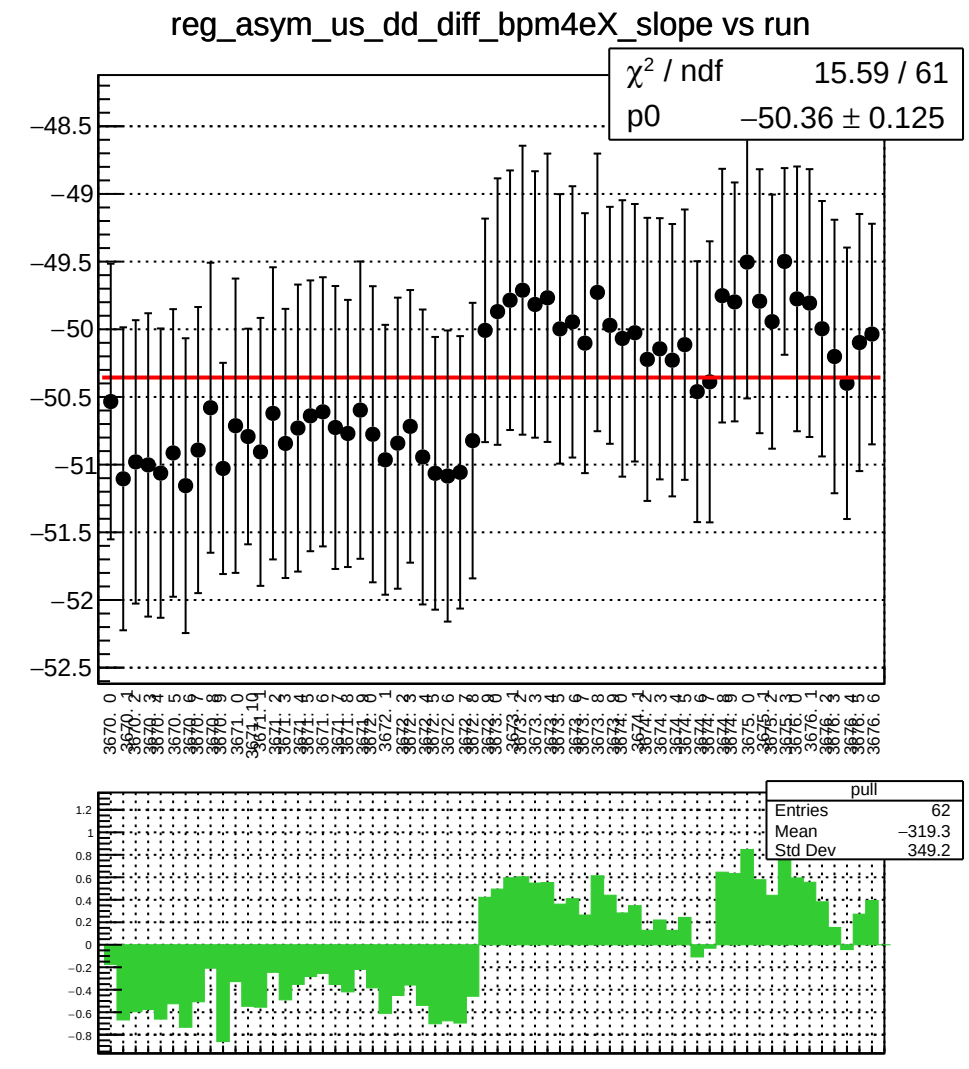

pull1D
Entries 62
Mean 0.002967
Std Dev 0.673

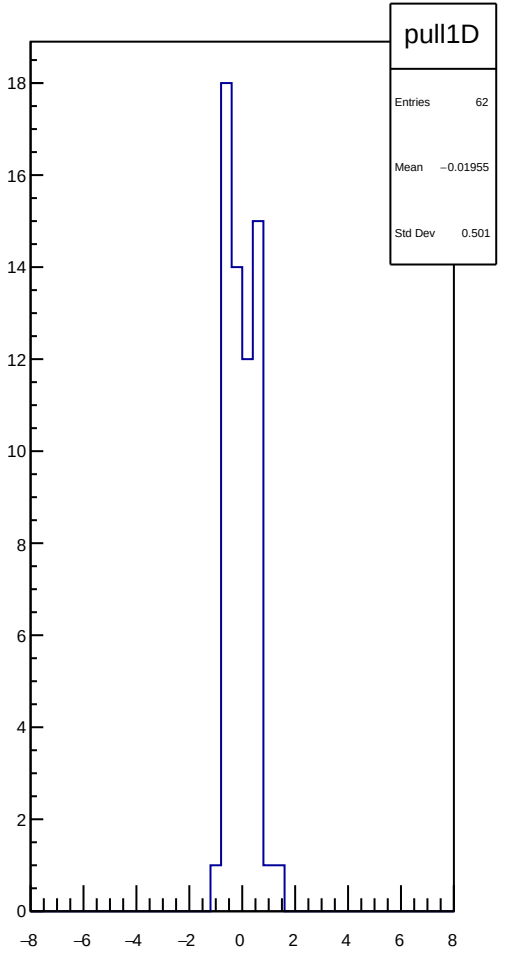

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.506 / 61
p0 23.14 ± 0.6525
pull
Entries 62
Mean −18.55
Std Dev 45.07

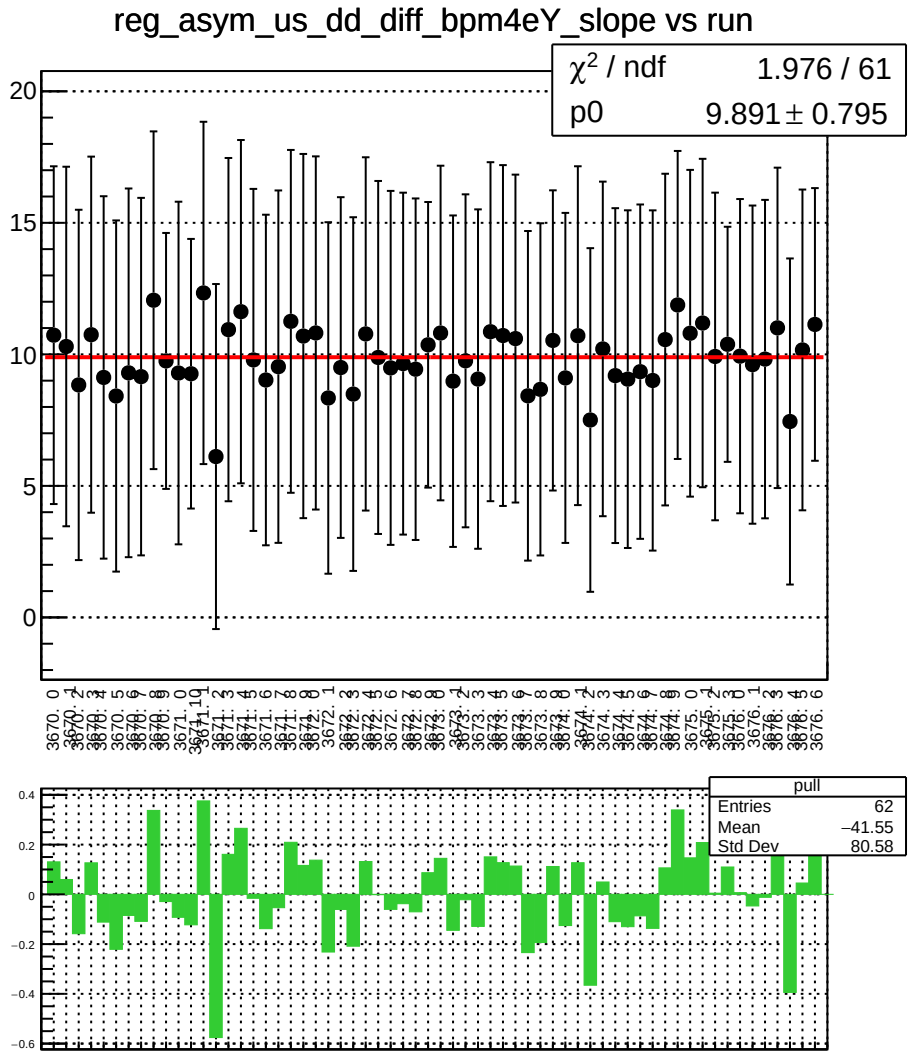

pull1D
Entries 62
Mean 0.005862
Std Dev 0.201

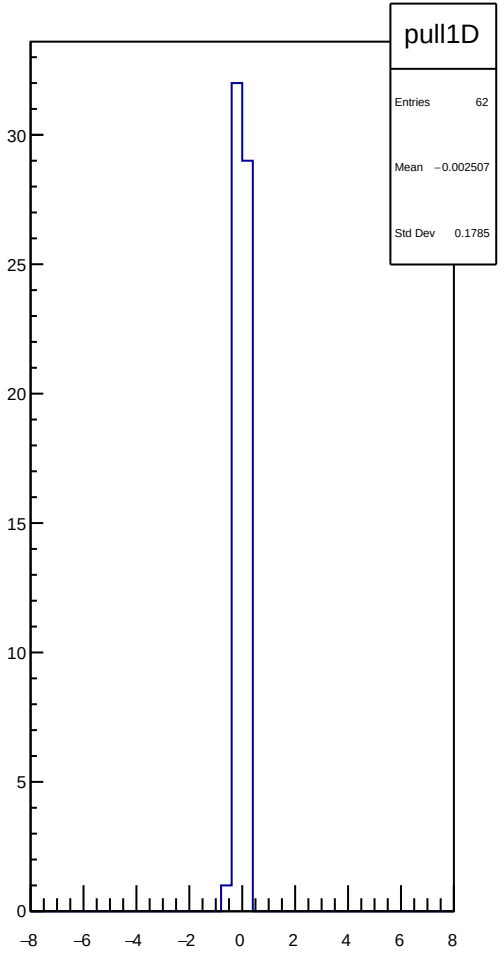

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.086 / 61
p0 −5.829 ± 0.5111
pull
Entries 62
Mean 43.91
Std Dev 60.49

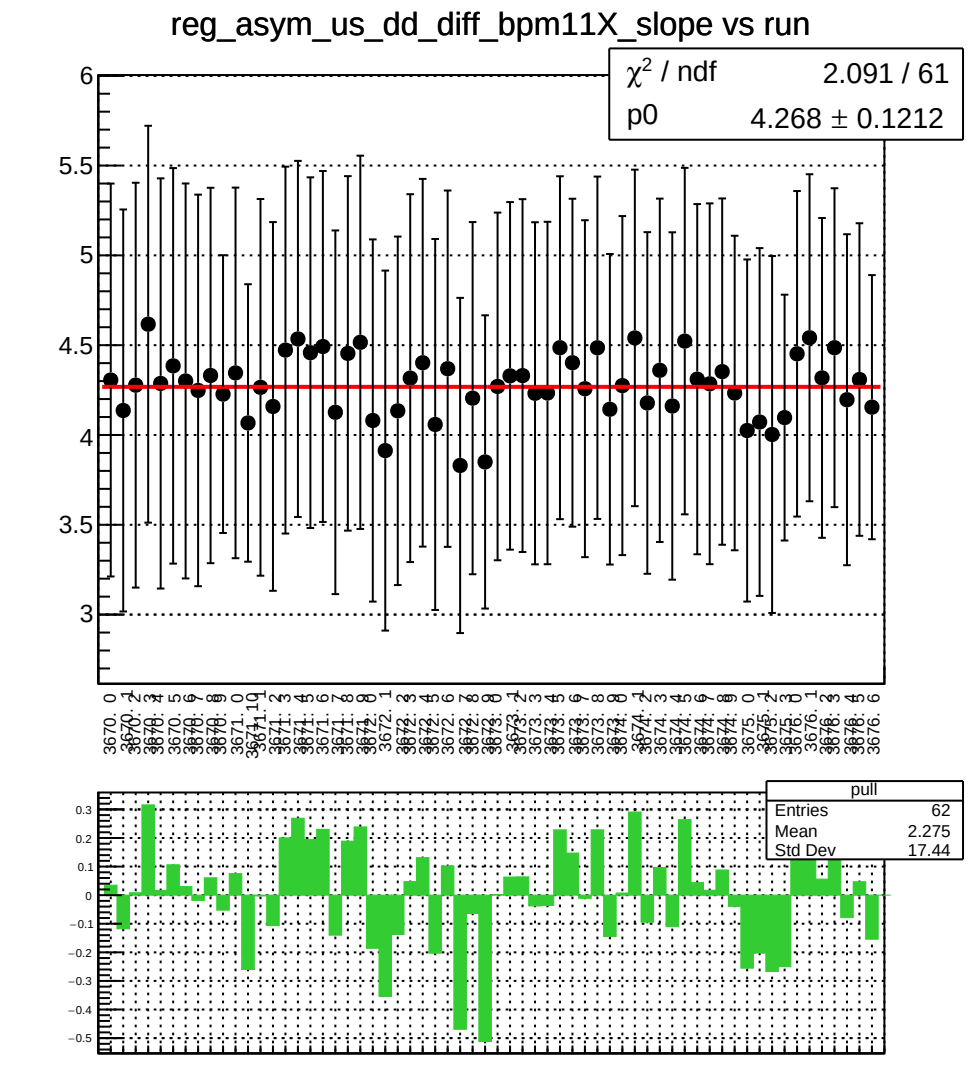

pull1D
Entries 62
Mean 0.001614
Std Dev 0.1834

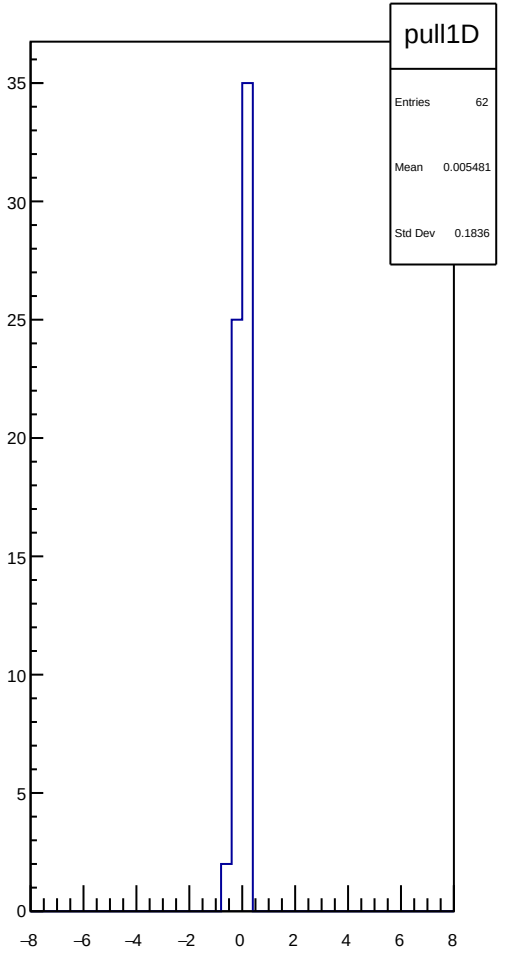

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.59 / 61
p0 −50.36 ± 0.125
pull
Entries 62
Mean −319.3
Std Dev 349.2

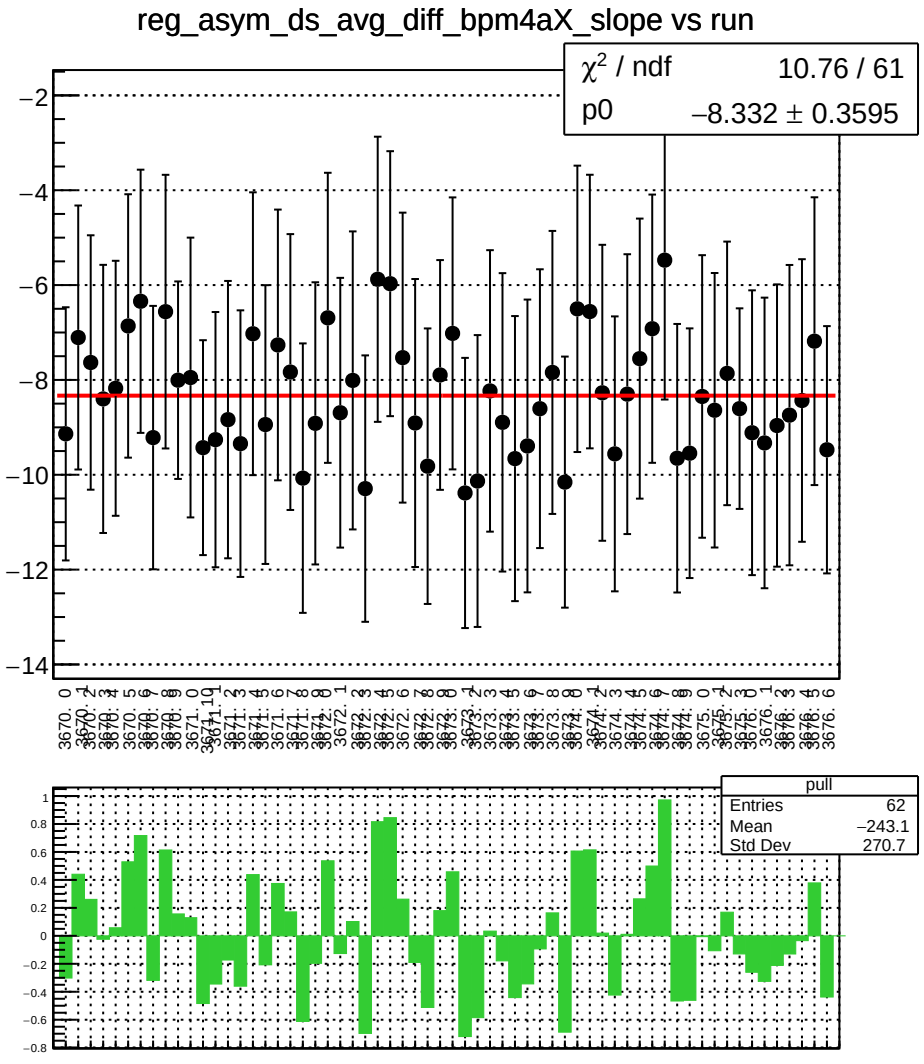

pull1D
Entries 62
Mean −0.01955
Std Dev 0.501

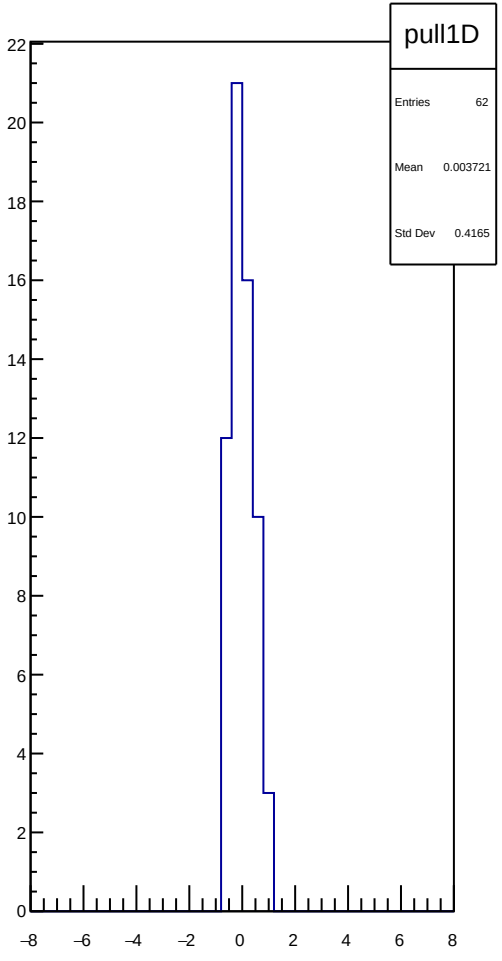

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.976 / 61
p0 9.891 ± 0.795
pull
Entries 62
Mean −41.55
Std Dev 80.58

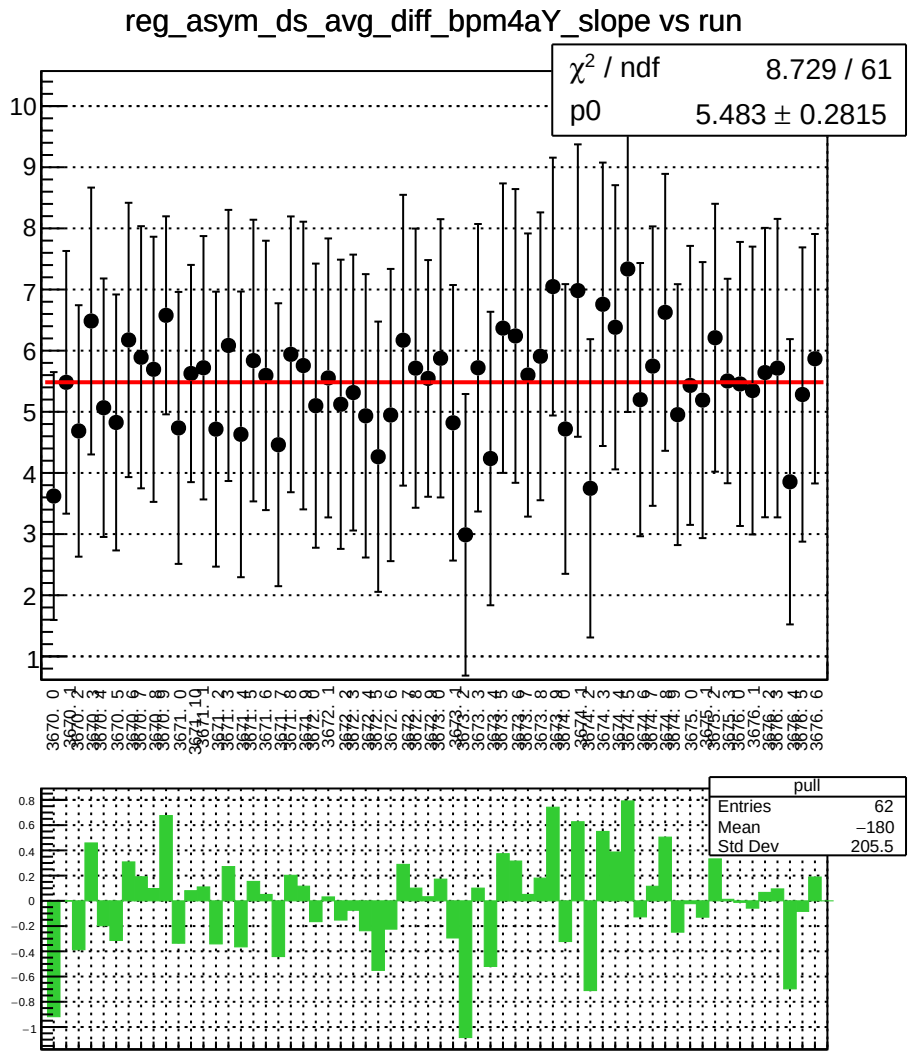

pull1D
Entries 62
Mean −0.002507
Std Dev 0.1785

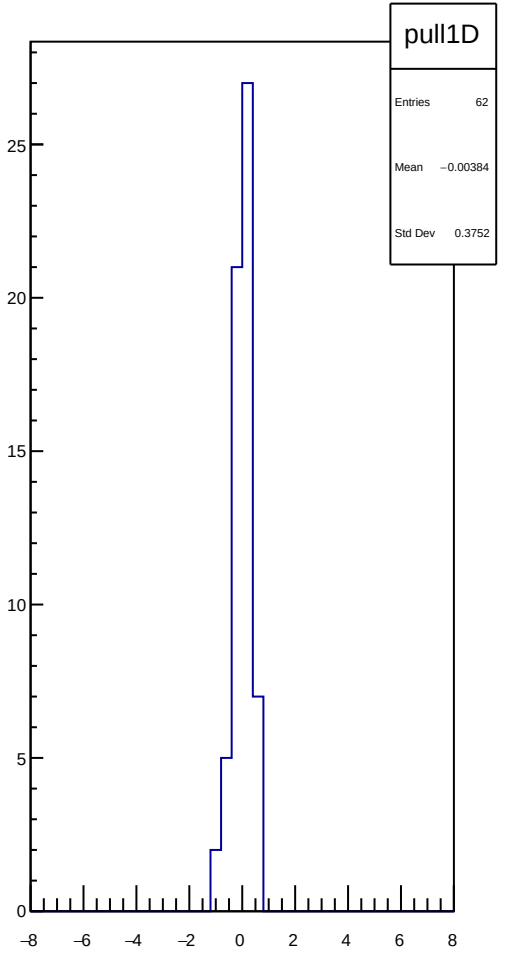

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 2.091 / 61
p0 4.268 ± 0.1212
pull
Entries 62
Mean 2.275
Std Dev 17.44

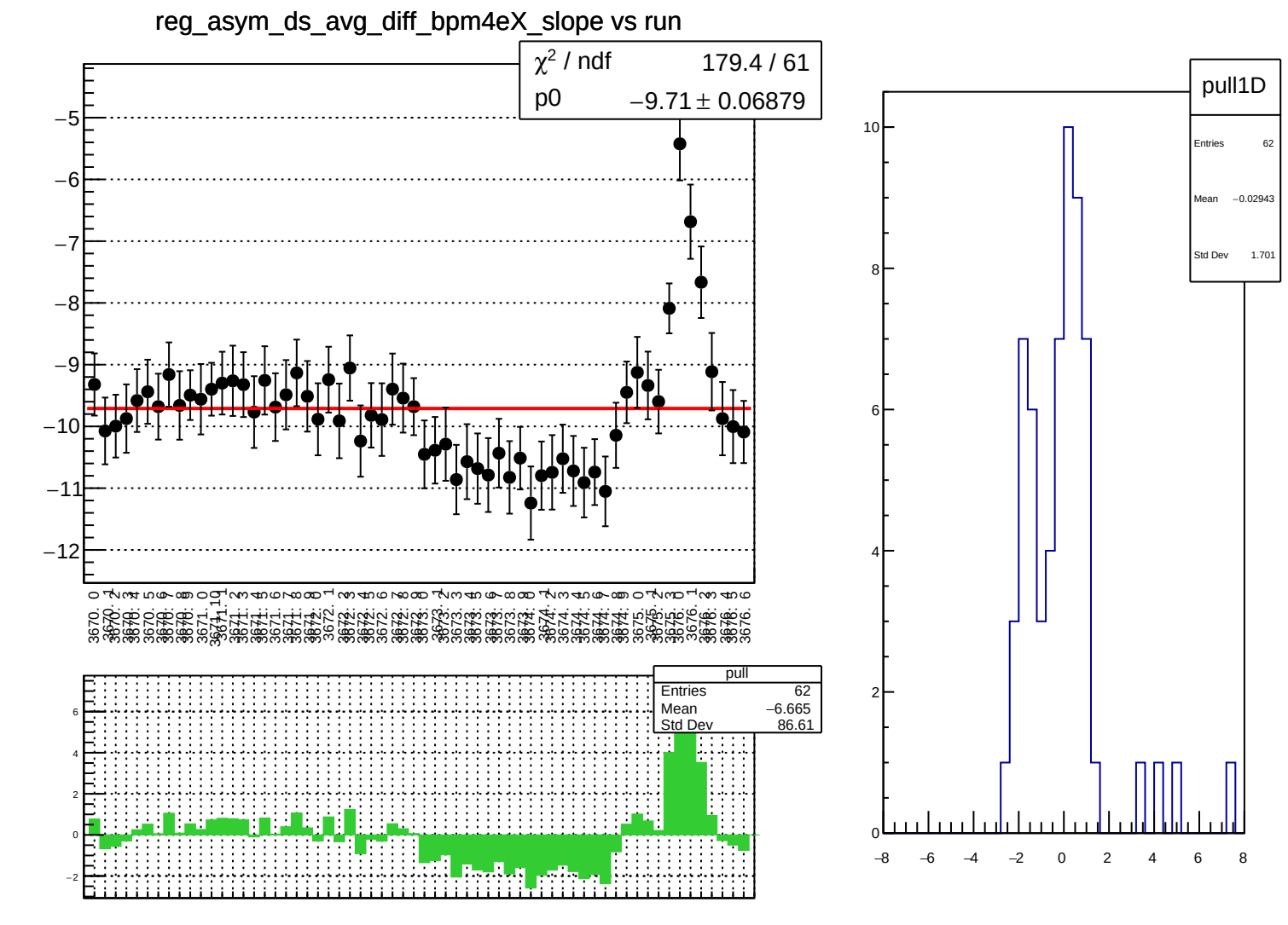

pull1D
Entries 62
Mean 0.005481
Std Dev 0.1836

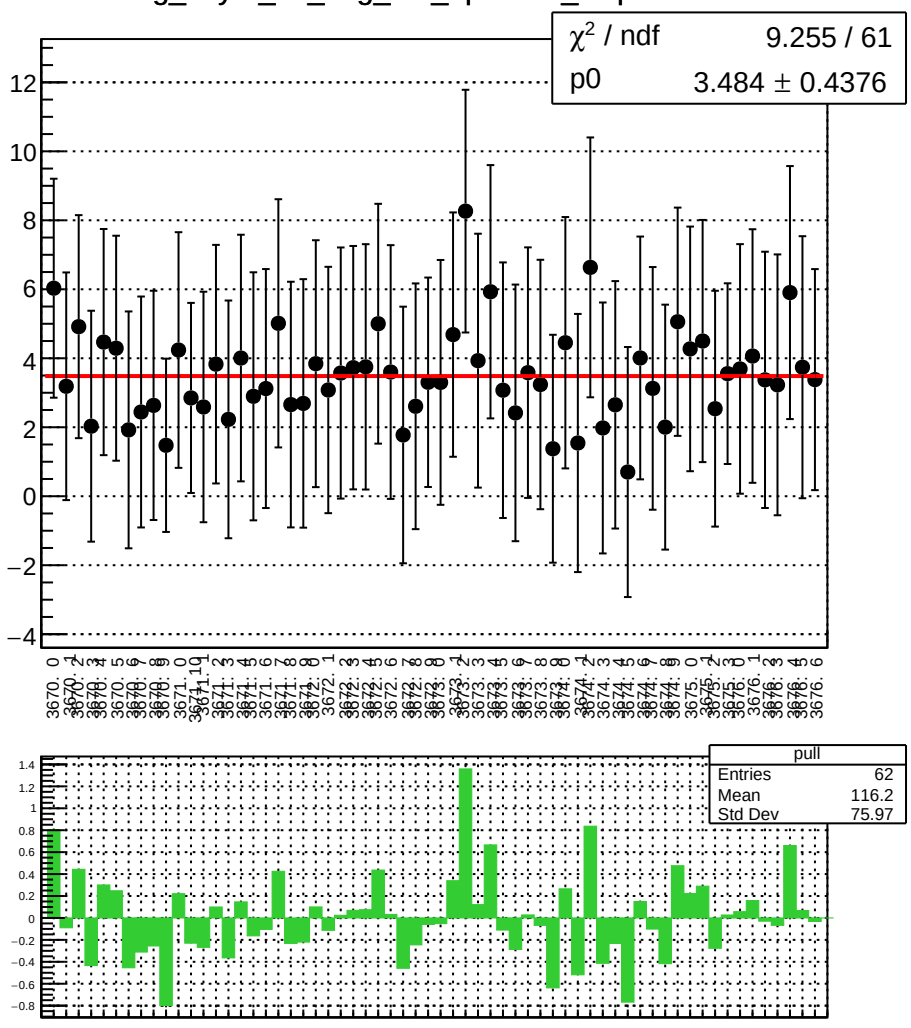

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.76 / 61
p0 −8.332 ± 0.3595
pull
Entries 62
Mean −243.1
Std Dev 270.7

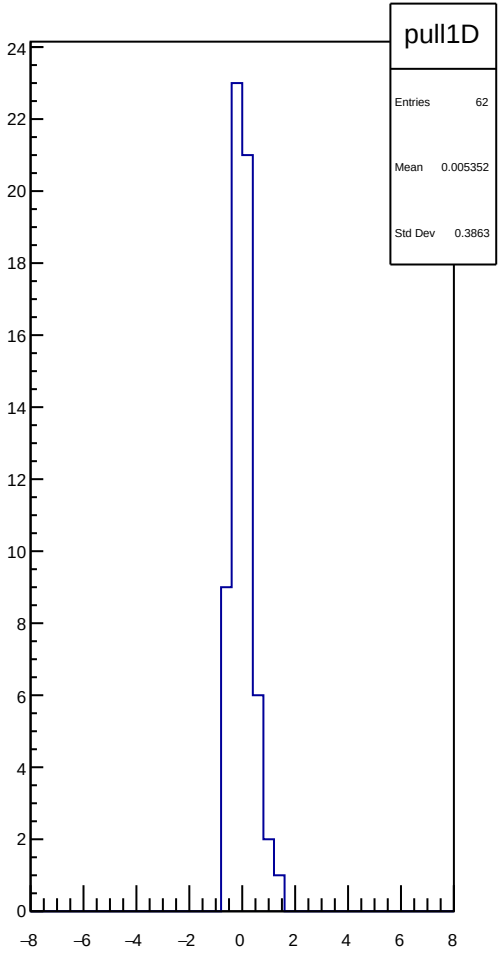

pull1D
Entries 62
Mean 0.003721
Std Dev 0.4165

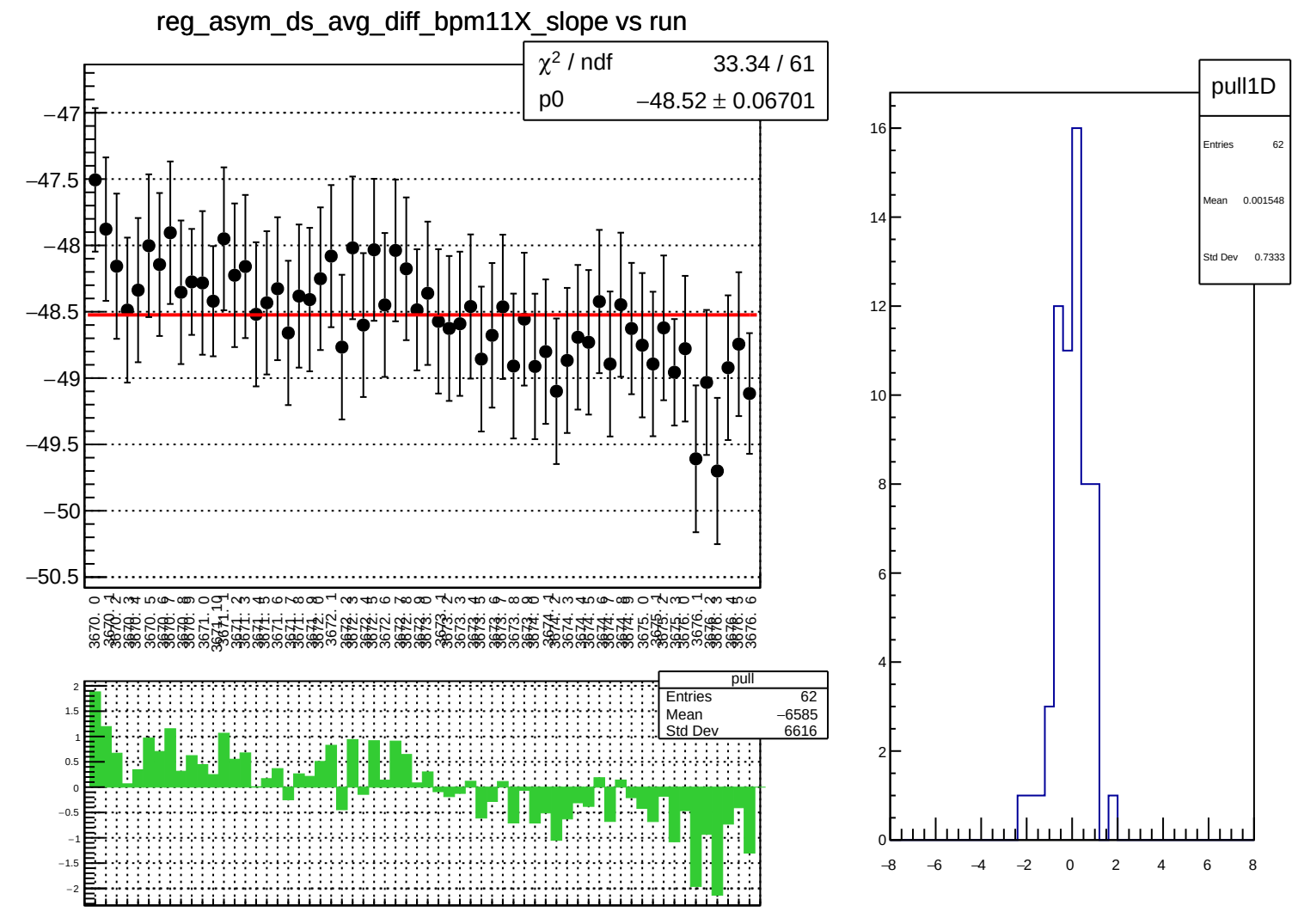

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.729 / 61
p0 5.483 ± 0.2815
pull
Entries 62
Mean −180
Std Dev 205.5

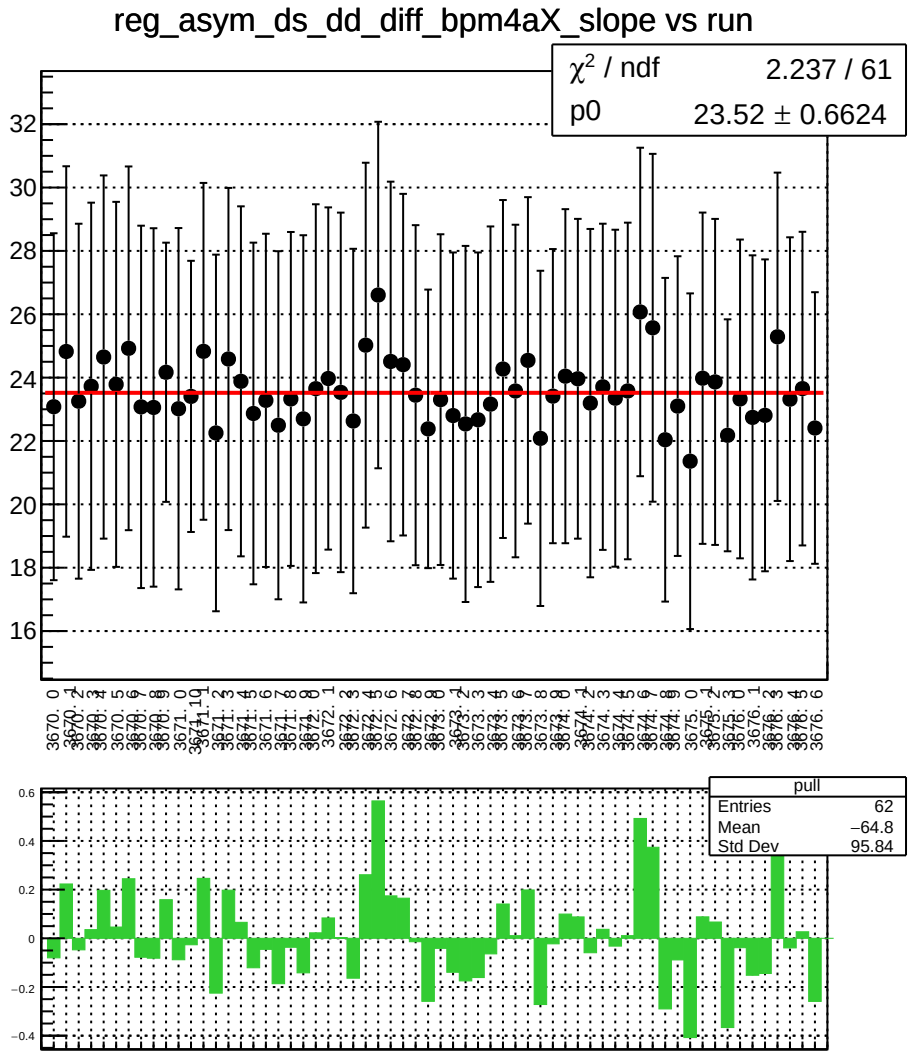

pull1D
Entries 62
Mean −0.00384
Std Dev 0.3752

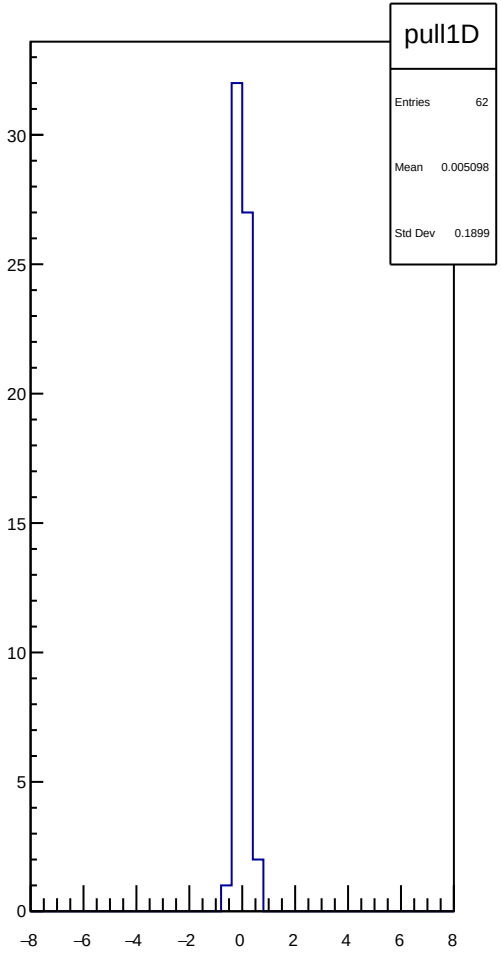

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 179.4 / 61
p0 −9.71 ± 0.06879
pull
Entries 62
Mean −6.665
Std Dev 86.61
pull1D
Entries 62
Mean −0.02943
Std Dev 1.701

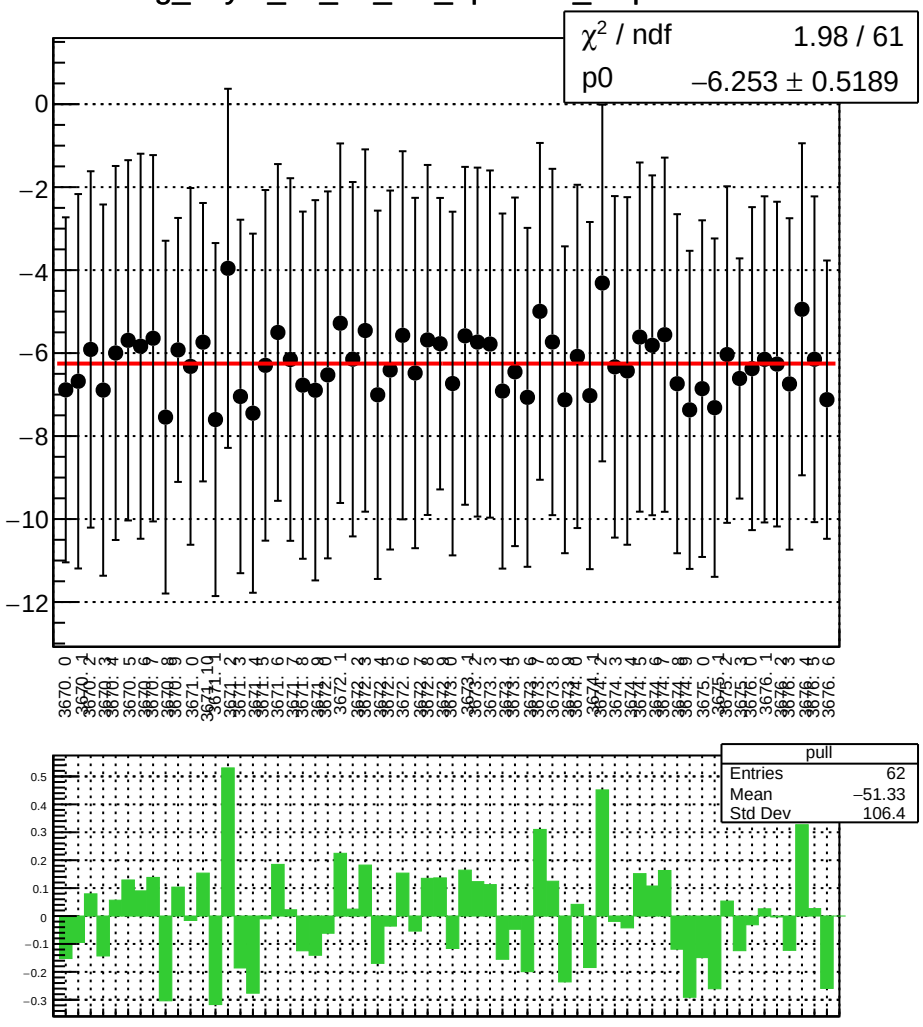

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.255 / 61
p0 3.484 ± 0.4376
pull
Entries 62
Mean 116.2
Std Dev 75.97

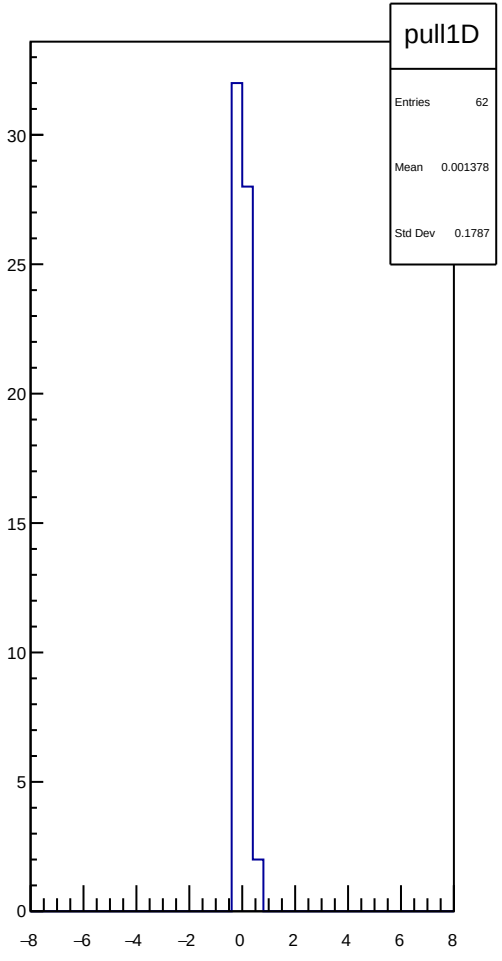

pull1D
Entries 62
Mean 0.005352
Std Dev 0.3863

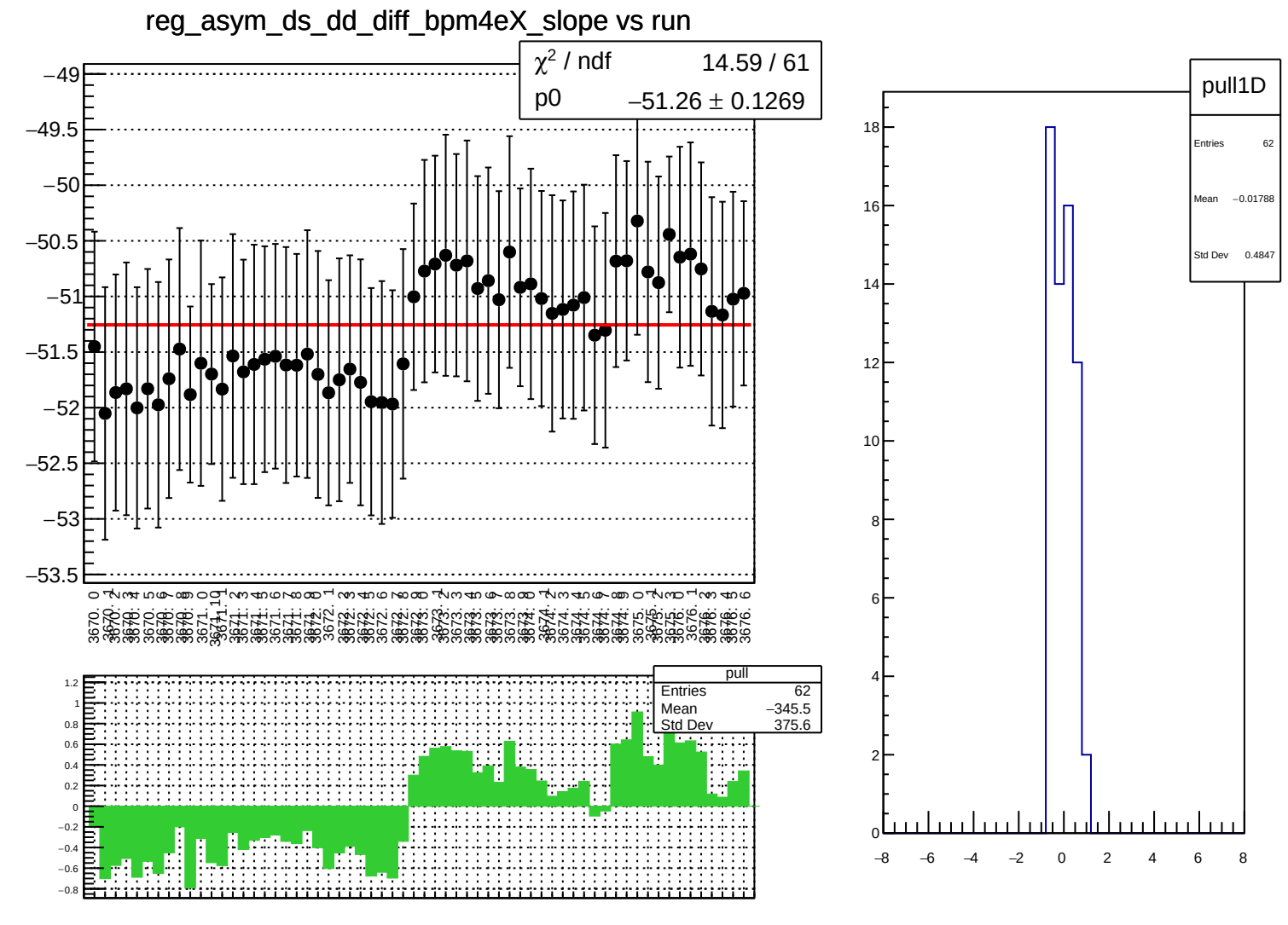

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 33.34 / 61
p0 −48.52 ± 0.06701
pull
Entries 62
Mean −6585
Std Dev 6616
pull1D
Entries 62
Mean 0.001548
Std Dev 0.7333

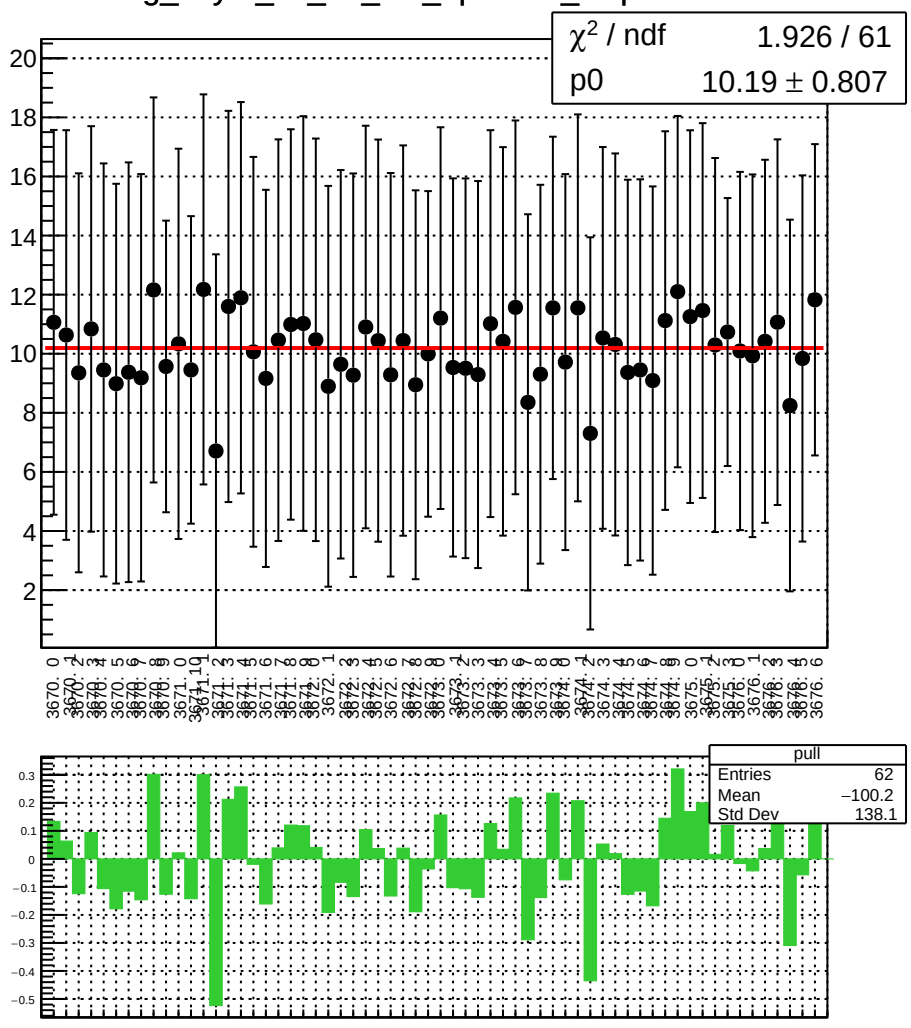

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.237 / 61
p0 23.52 ± 0.6624
pull
Entries 62
Mean −64.8
Std Dev 95.84

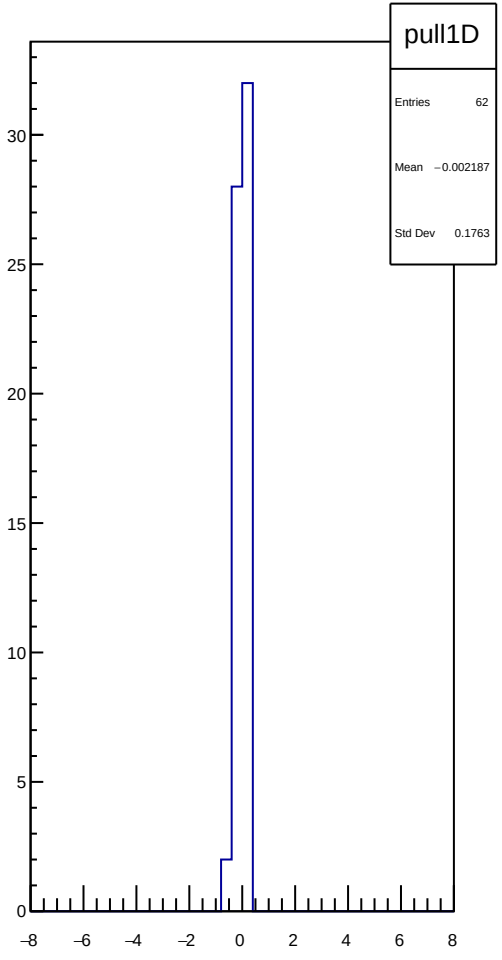

pull1D
Entries 62
Mean 0.005098
Std Dev 0.1899

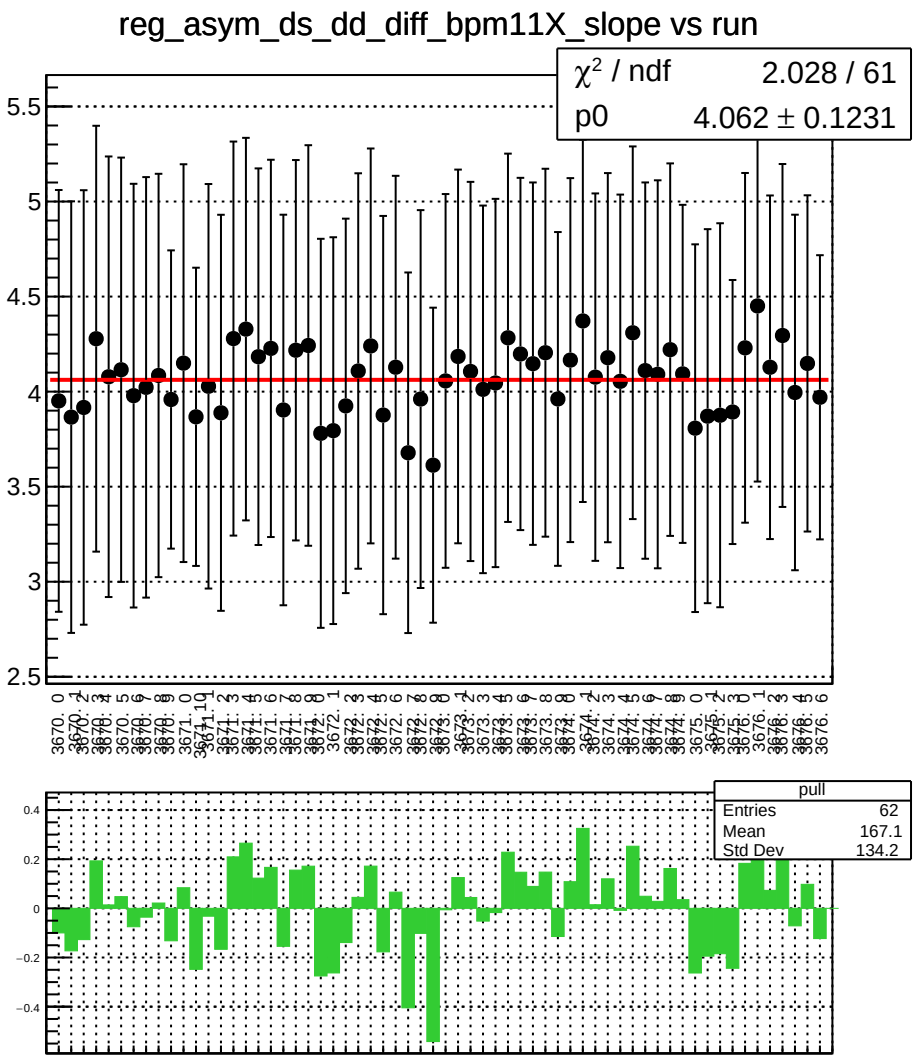

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.98 / 61
p0 −6.253 ± 0.5189
pull
Entries 62
Mean −51.33
Std Dev 106.4

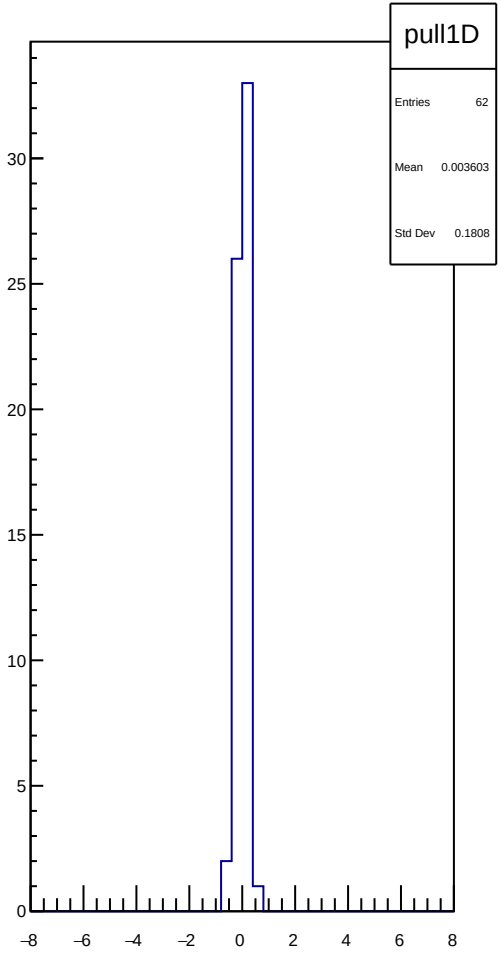

pull1D
Entries 62
Mean 0.001378
Std Dev 0.1787

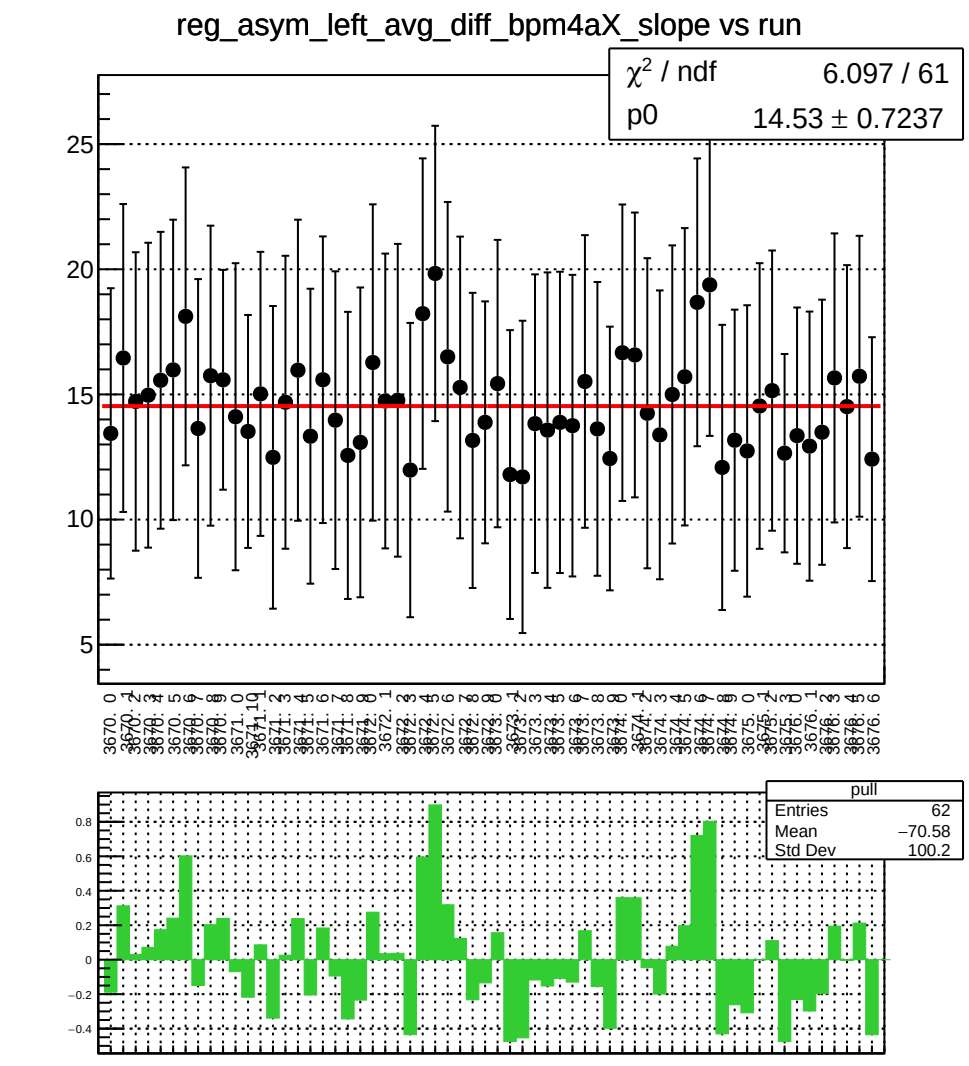

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.59 / 61
p0 −51.26 ± 0.1269
pull
Entries 62
Mean −345.5
Std Dev 375.6
pull1D
Entries 62
Mean −0.01788
Std Dev 0.4847

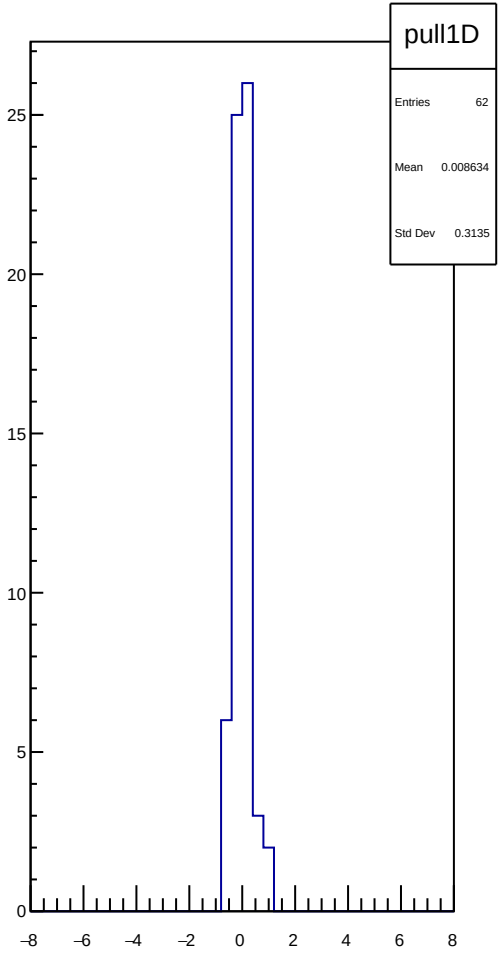

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.926 / 61
p0 10.19 ± 0.807
pull
Entries 62
Mean −100.2
Std Dev 138.1

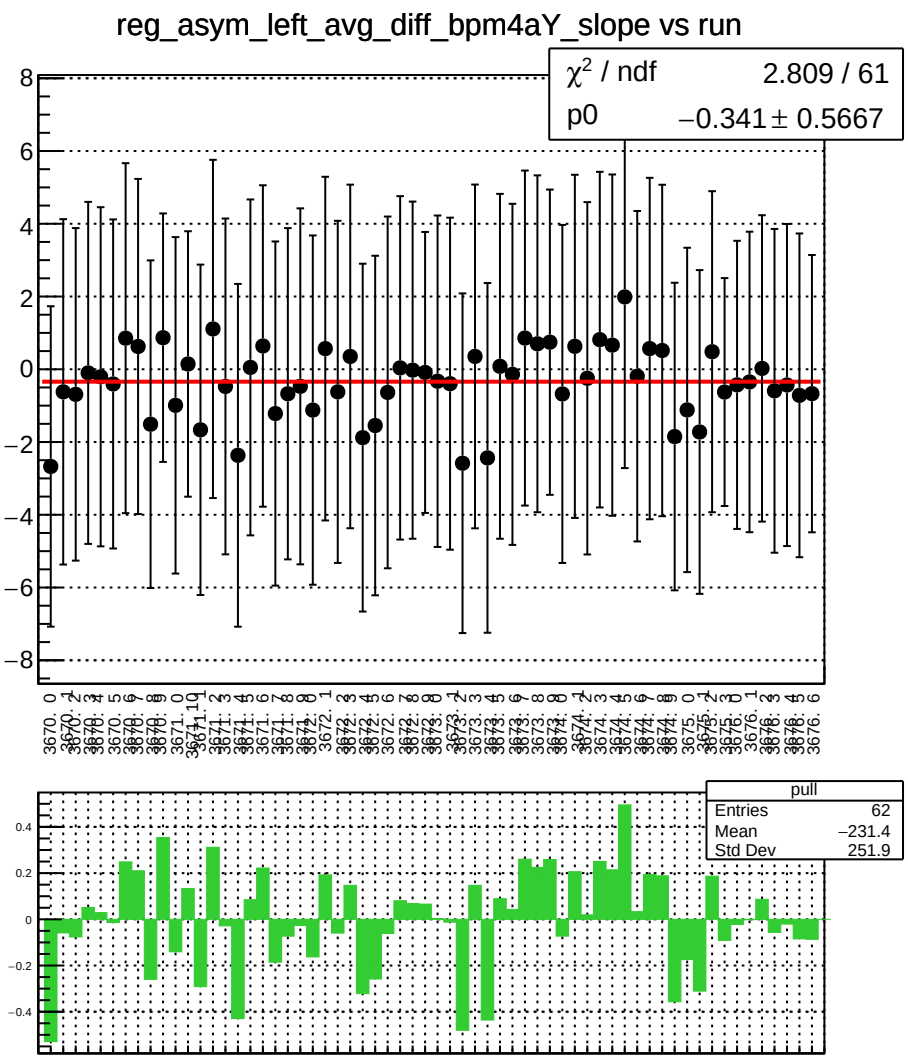

pull1D
Entries 62
Mean −0.002187
Std Dev 0.1763

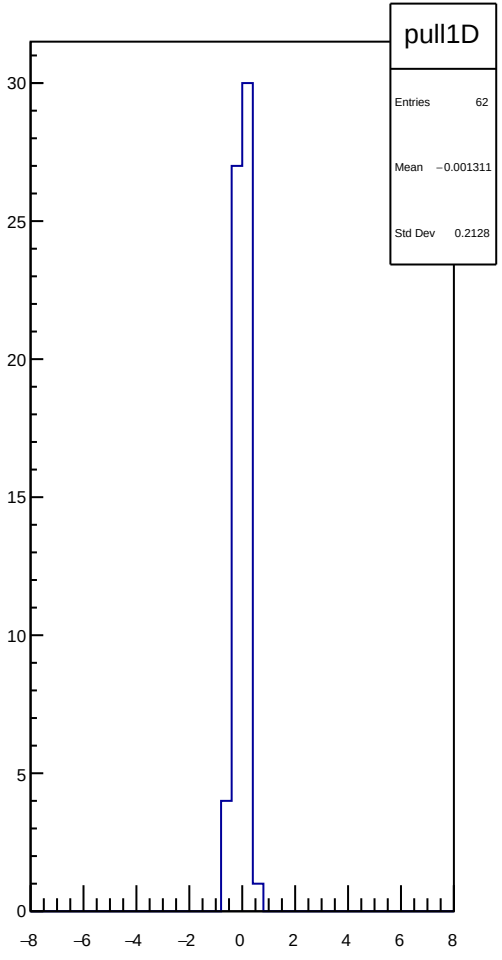

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 2.028 / 61
p0 4.062 ± 0.1231
pull
Entries 62
Mean 167.1
Std Dev 134.2

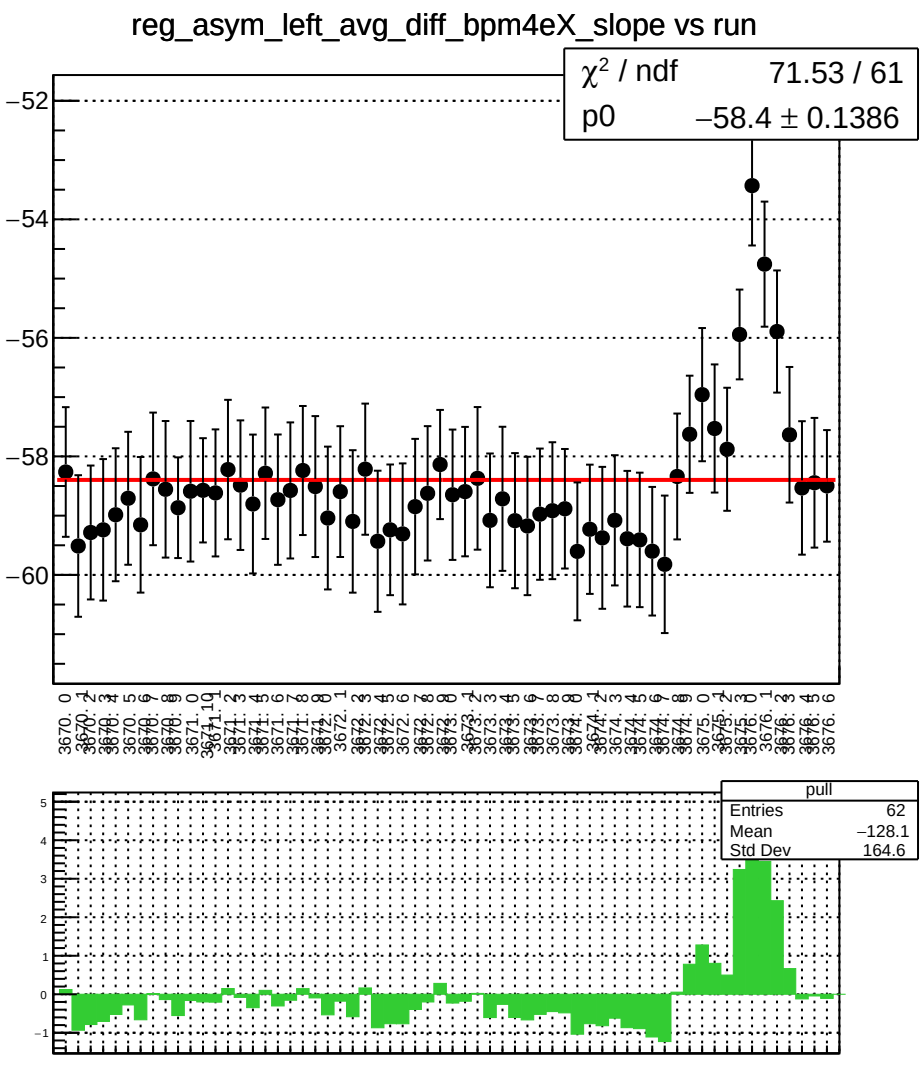

pull1D
Entries 62
Mean 0.003603
Std Dev 0.1808

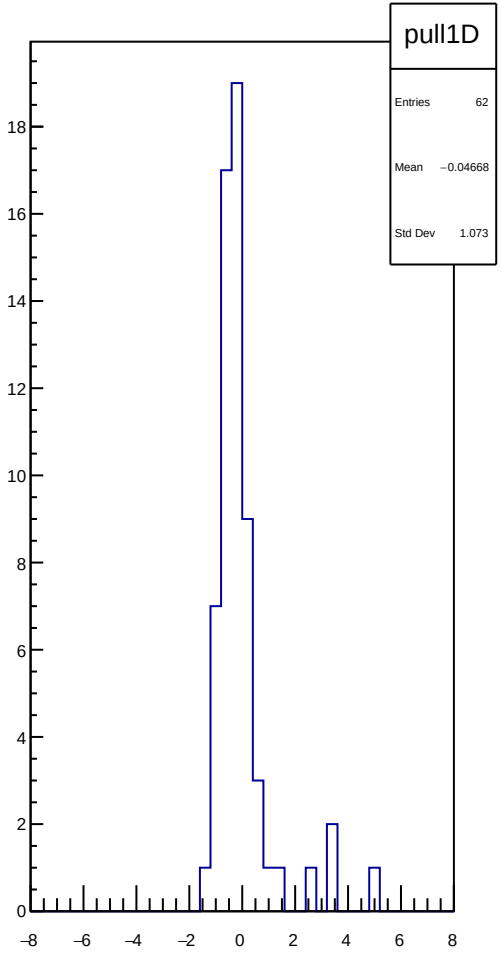

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.097 / 61
p0 14.53 ± 0.7237
pull
Entries 62
Mean −70.58
Std Dev 100.2

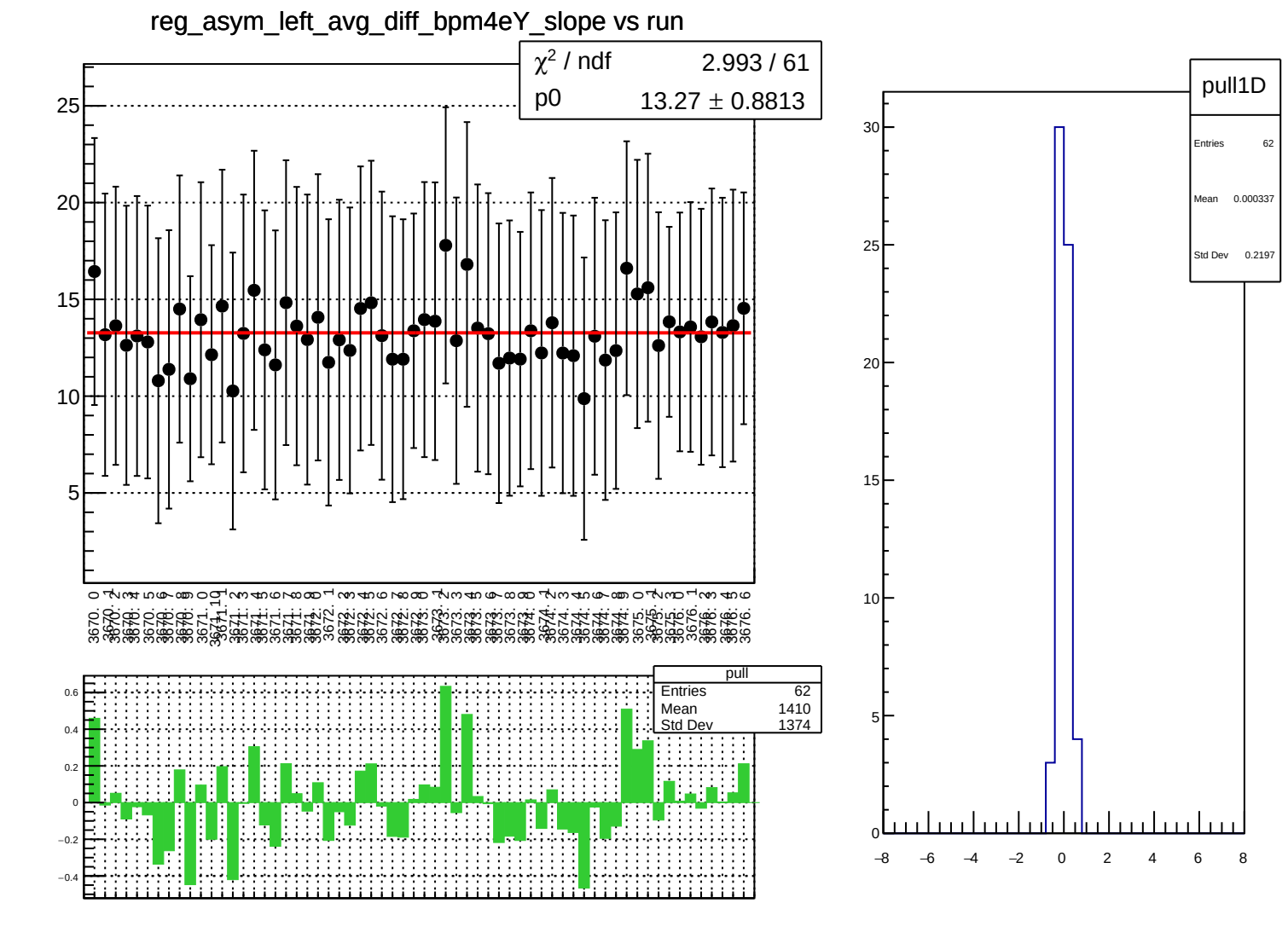

pull1D
Entries 62
Mean 0.008634
Std Dev 0.3135

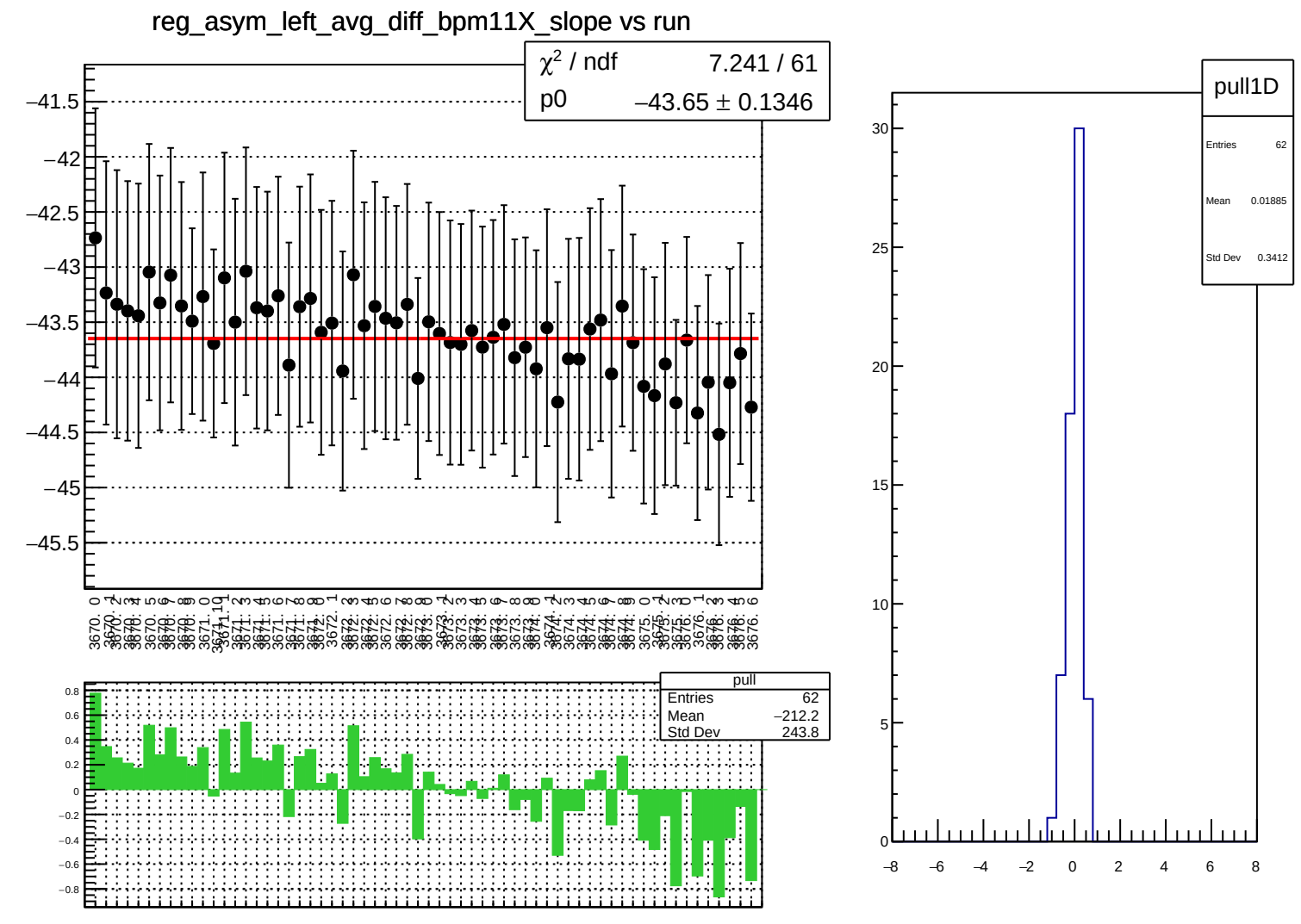

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.809 / 61
p0 −0.341 ± 0.5667
pull
Entries 62
Mean −231.4
Std Dev 251.9

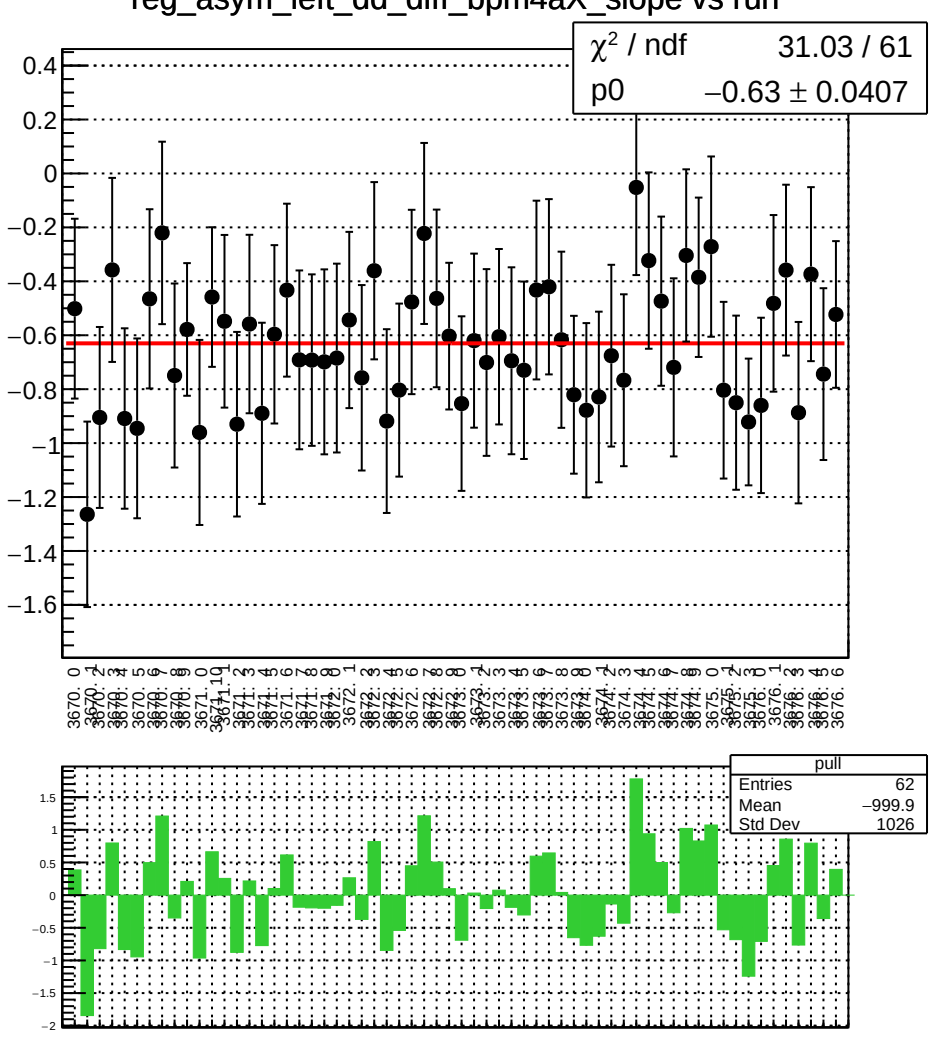

pull1D
Entries 62
Mean −0.001311
Std Dev 0.2128

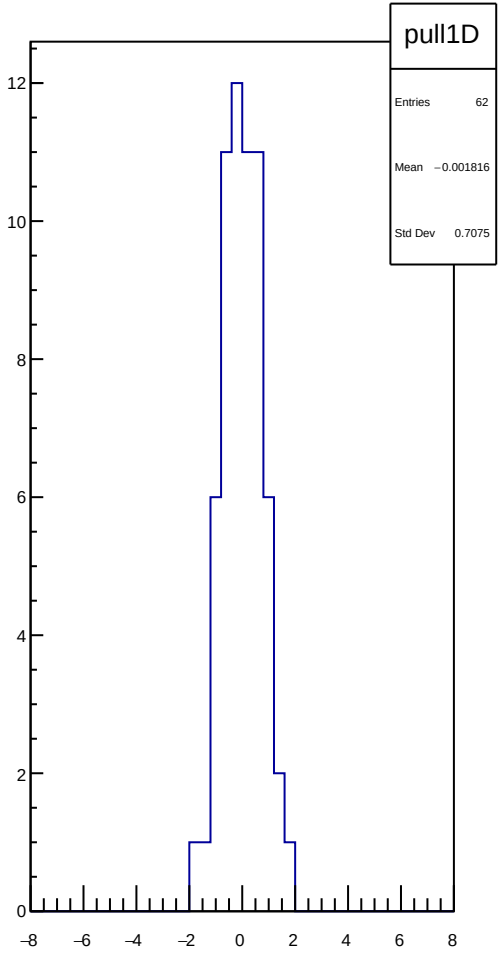

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.53 / 61
p0 −58.4 ± 0.1386
pull
Entries 62
Mean −128.1
Std Dev 164.6

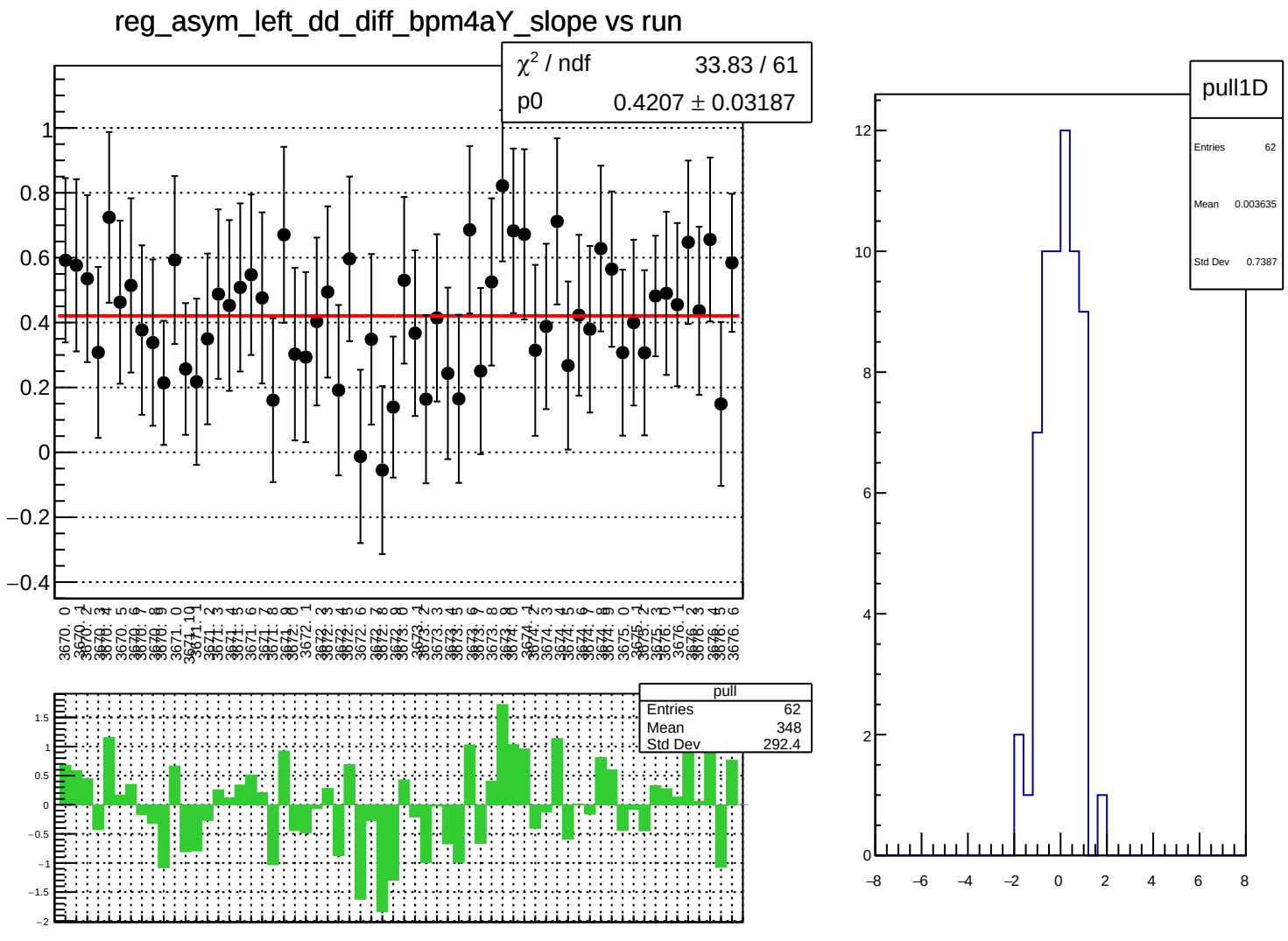

pull1D
Entries 62
Mean −0.04668
Std Dev 1.073

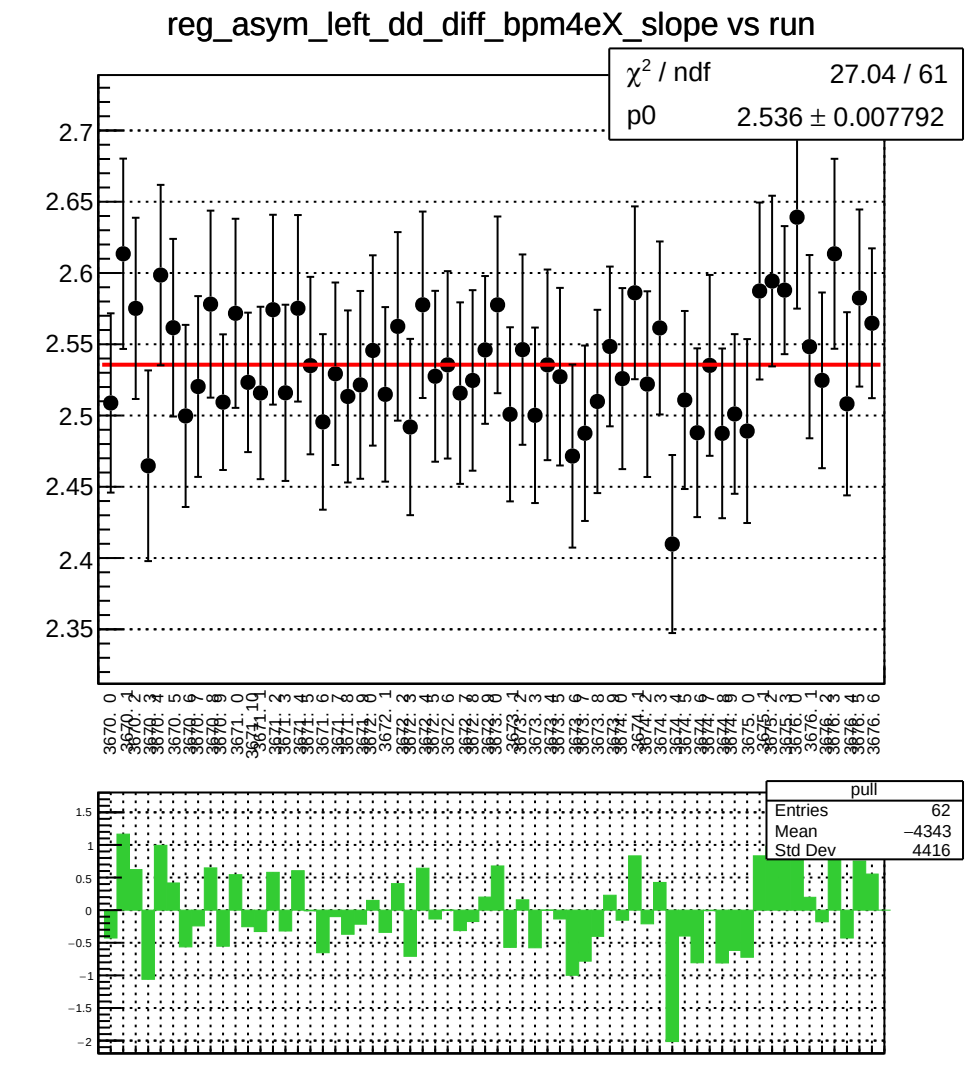

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.993 / 61
p0 13.27 ± 0.8813
pull
Entries 62
Mean 1410
Std Dev 1374
pull1D
Entries 62
Mean 0.000337
Std Dev 0.2197

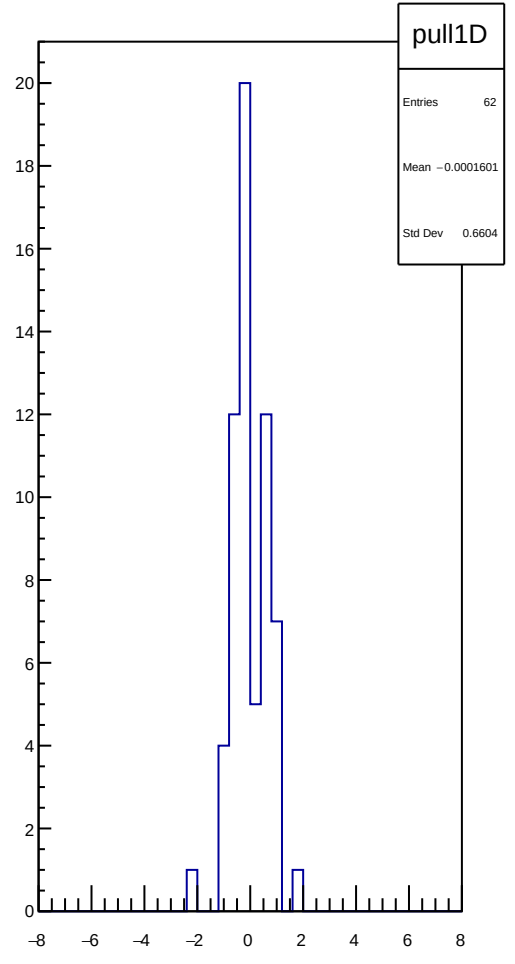

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 7.241 / 61
p0 −43.65 ± 0.1346
pull
Entries 62
Mean −212.2
Std Dev 243.8
pull1D
Entries 62
Mean 0.01885
Std Dev 0.3412

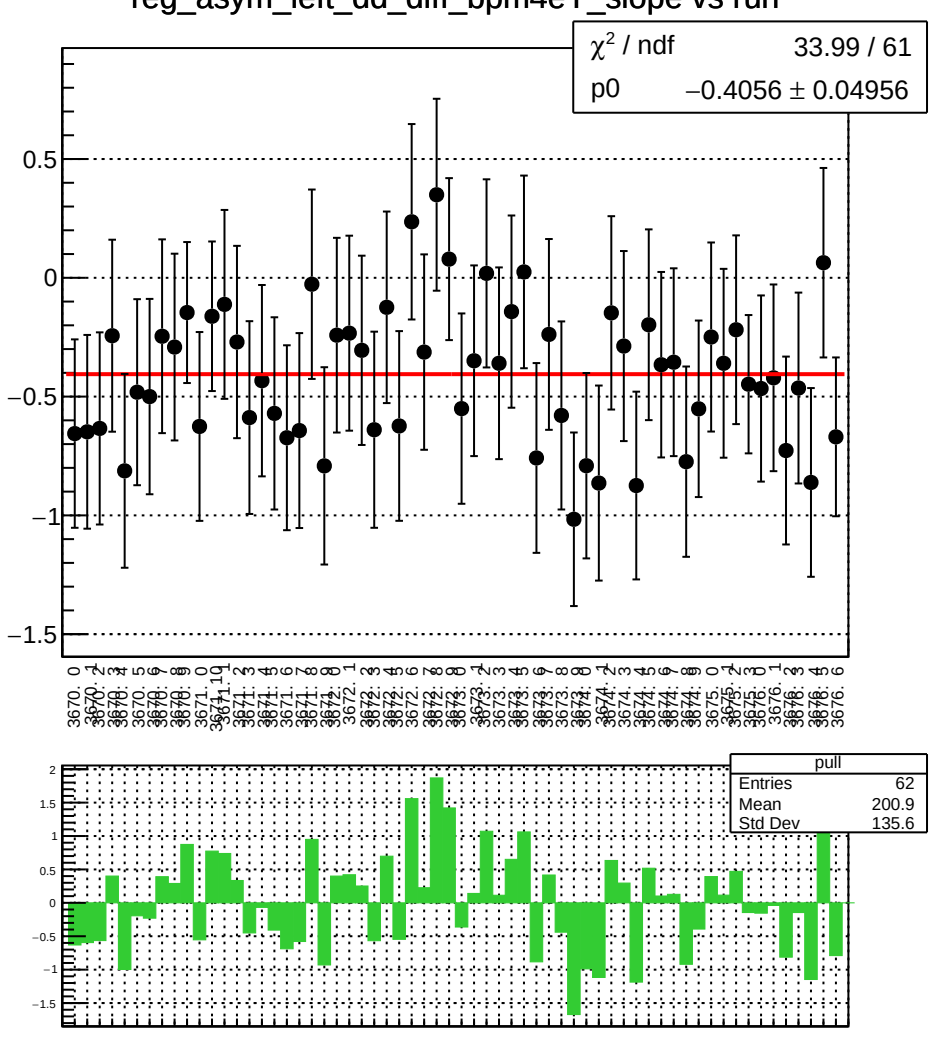

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.03 / 61
p0 −0.63 ± 0.0407
pull
Entries 62
Mean −999.9
Std Dev 1026

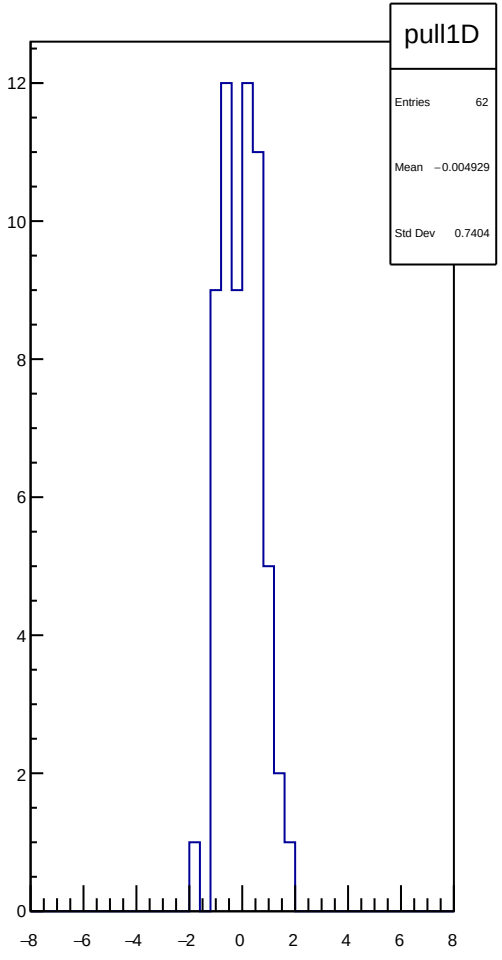

pull1D
Entries 62
Mean −0.001816
Std Dev 0.7075

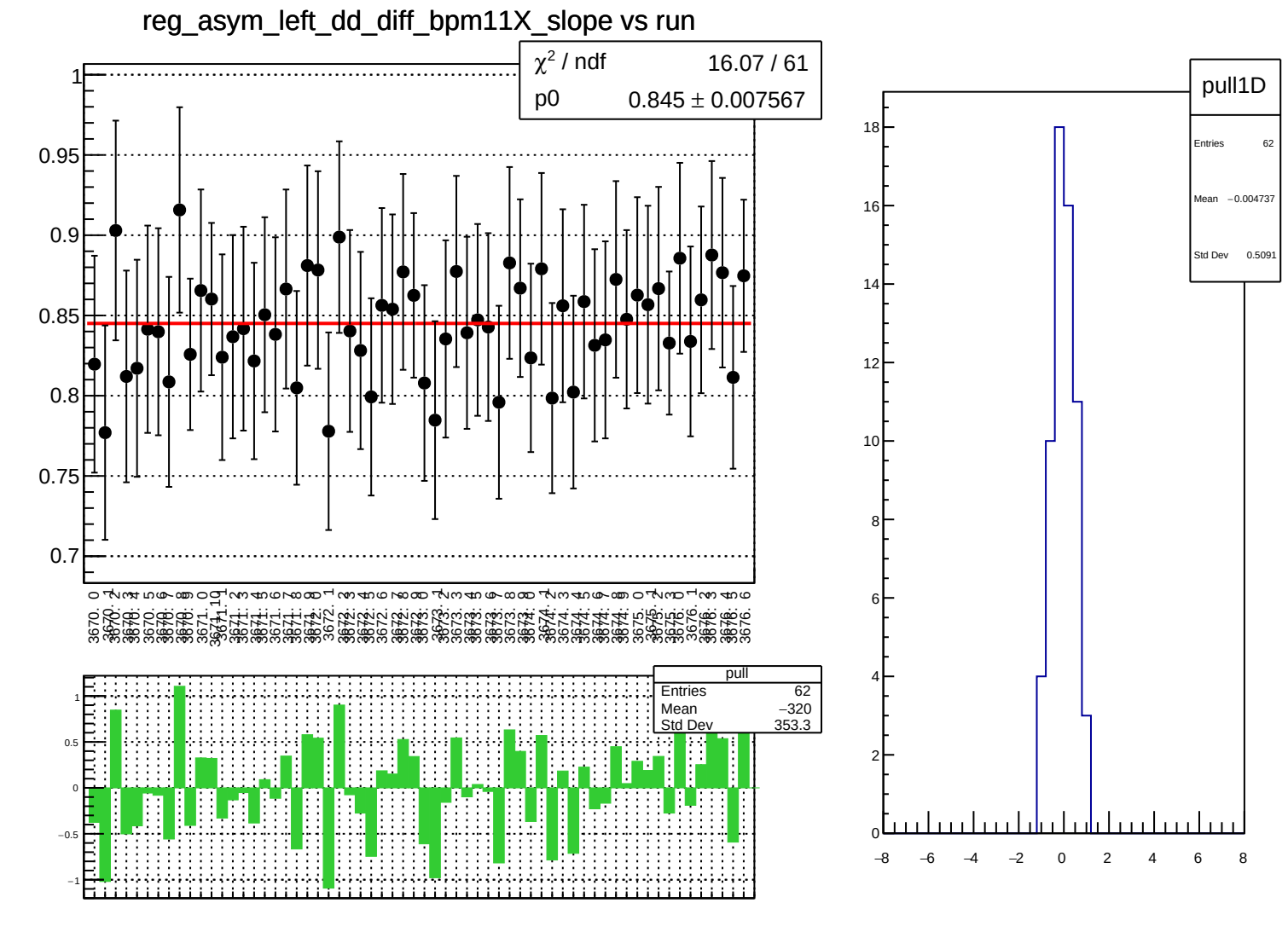

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 33.83 / 61
p0 0.4207 ± 0.03187
pull
Entries 62
Mean 348
Std Dev 292.4
pull1D
Entries 62
Mean 0.003635
Std Dev 0.7387

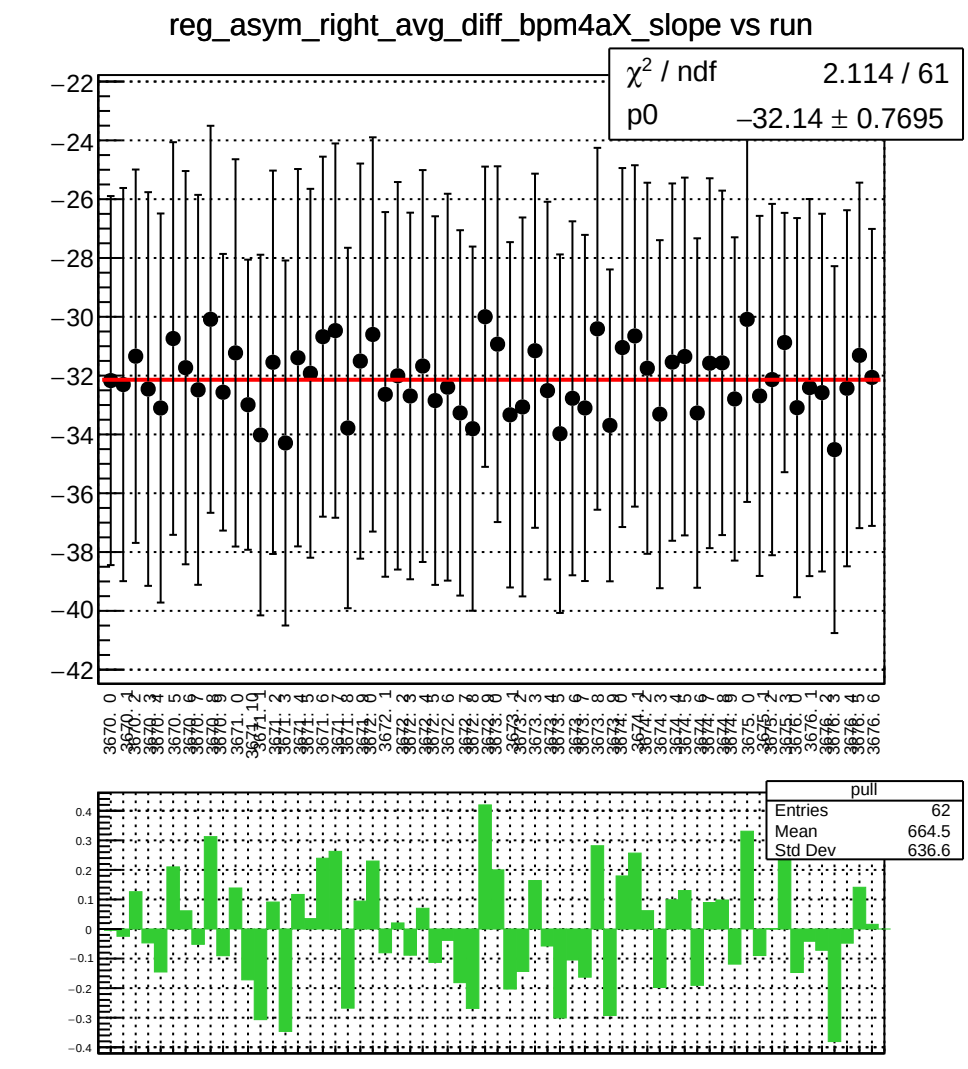

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.04 / 61
p0 2.536 ± 0.007792
pull
Entries 62
Mean −4343
Std Dev 4416

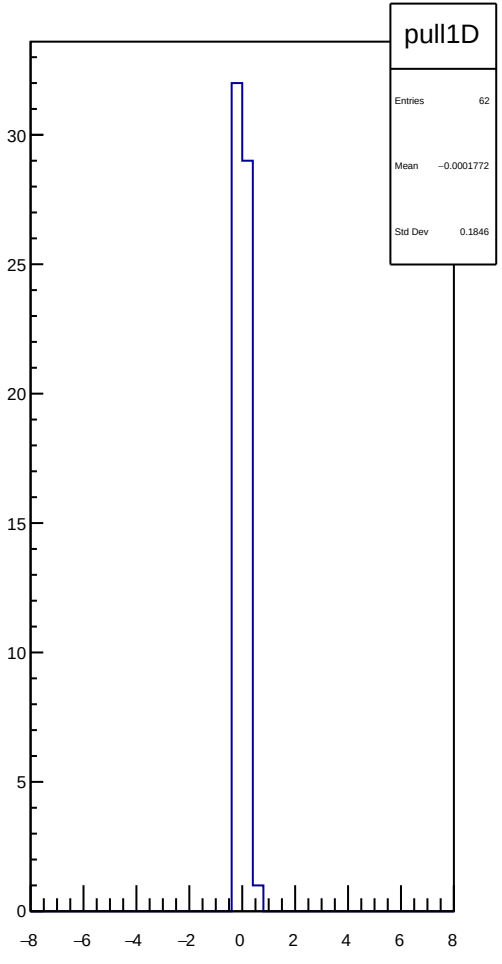

pull1D
Entries 62
Mean −0.0001601
Std Dev 0.6604

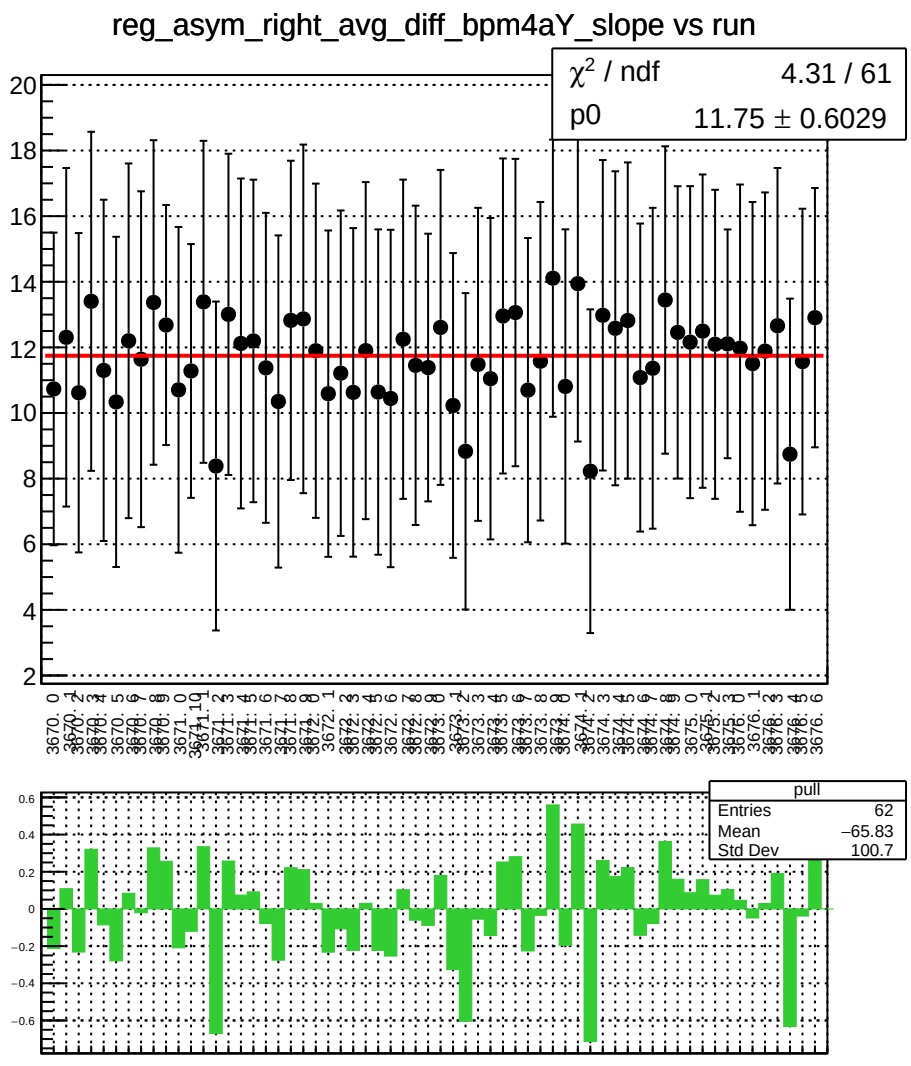

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.99 / 61
p0 −0.4056 ± 0.04956
pull
Entries 62
Mean 200.9
Std Dev 135.6

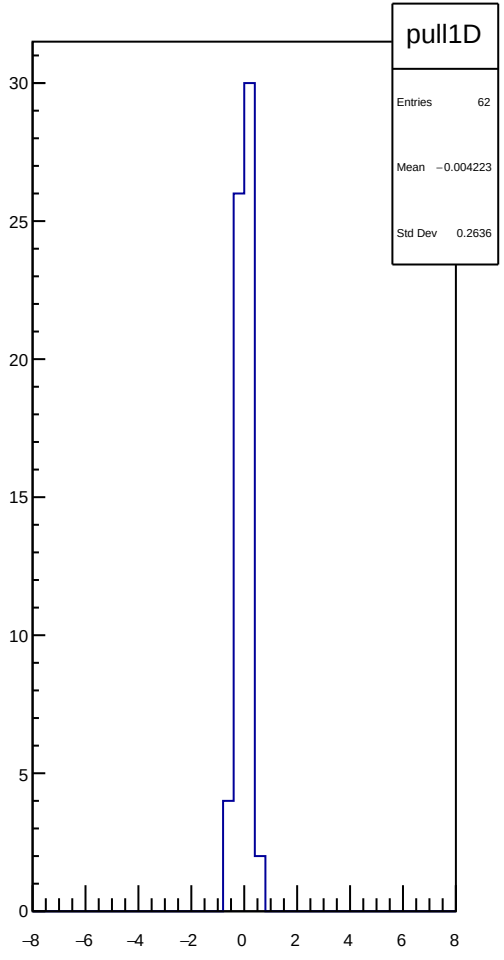

pull1D
Entries 62
Mean −0.004929
Std Dev 0.7404

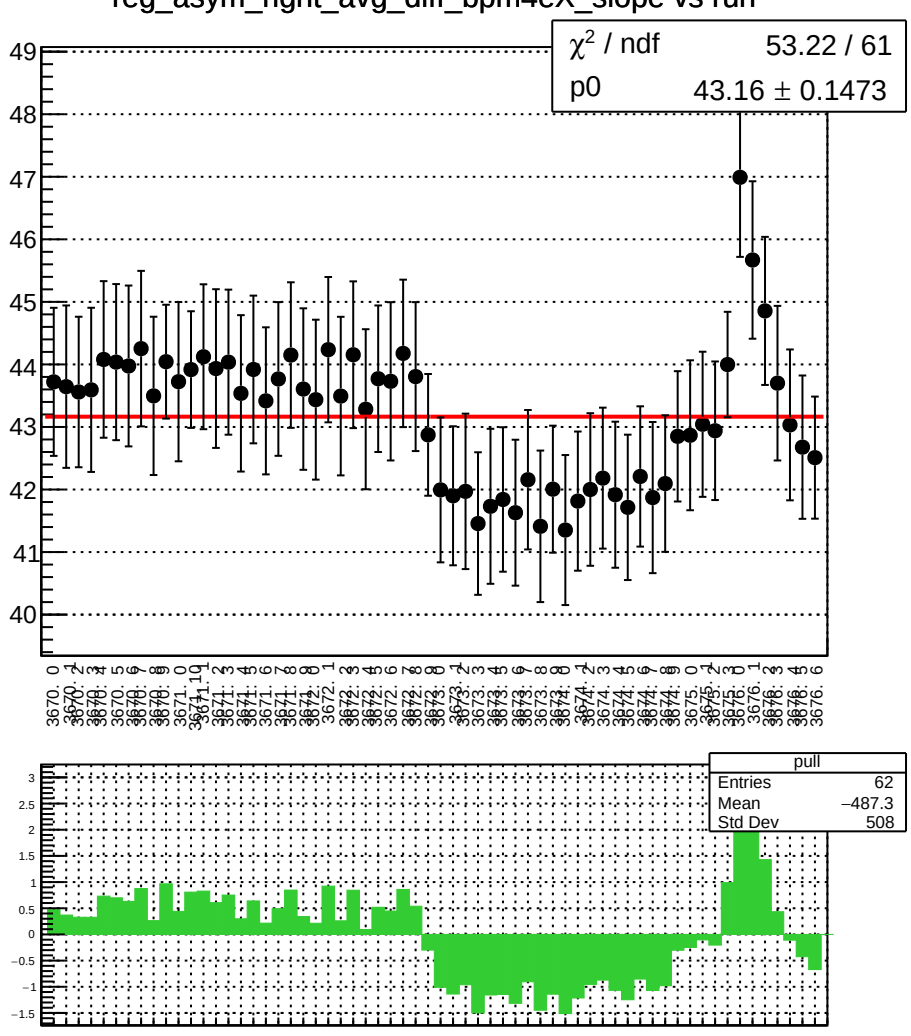

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 16.07 / 61
p0 0.845 ± 0.007567
pull
Entries 62
Mean −320
Std Dev 353.3
pull1D
Entries 62
Mean −0.004737
Std Dev 0.5091

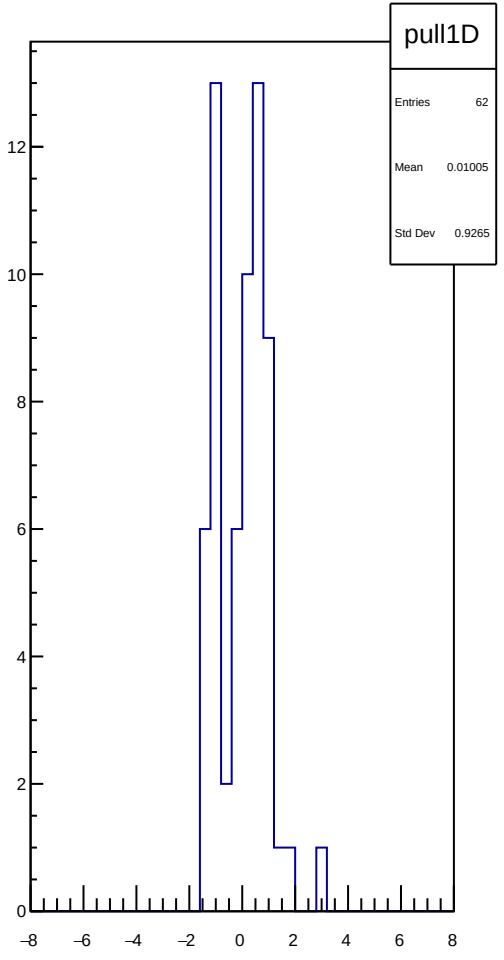

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.114 / 61
p0 −32.14 ± 0.7695
pull
Entries 62
Mean 664.5
Std Dev 636.6

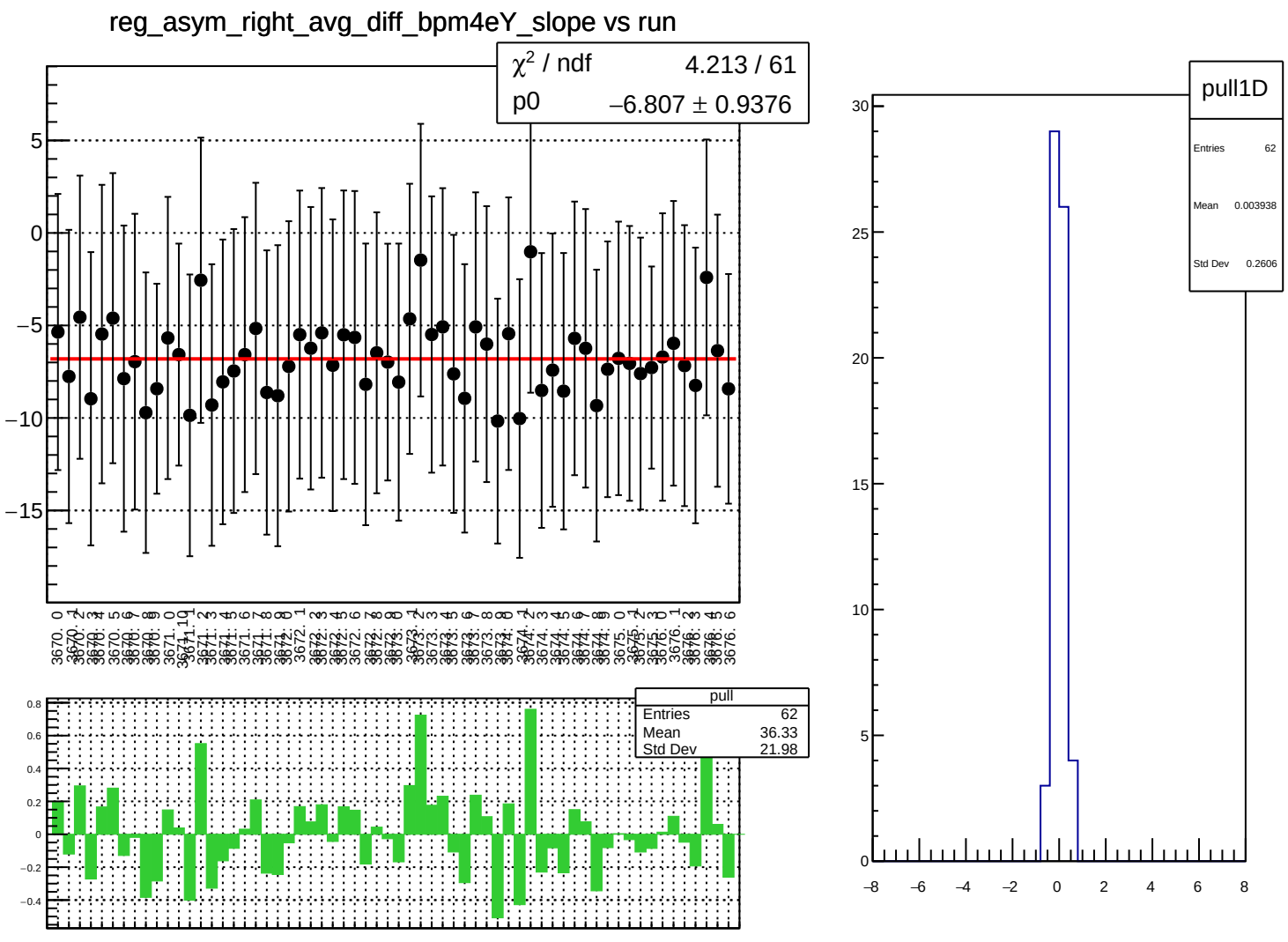

pull1D
Entries 62
Mean −0.0001772
Std Dev 0.1846

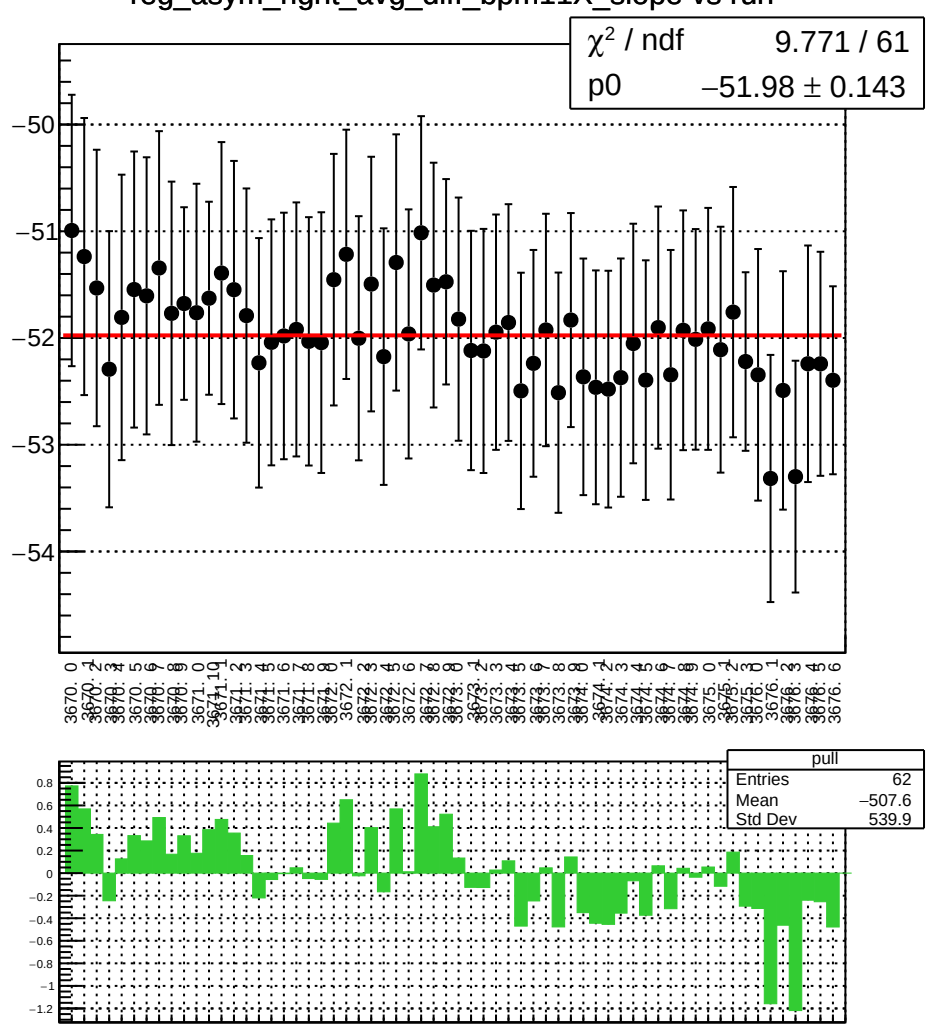

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.31 / 61
p0 11.75 ± 0.6029
pull
Entries 62
Mean −65.83
Std Dev 100.7

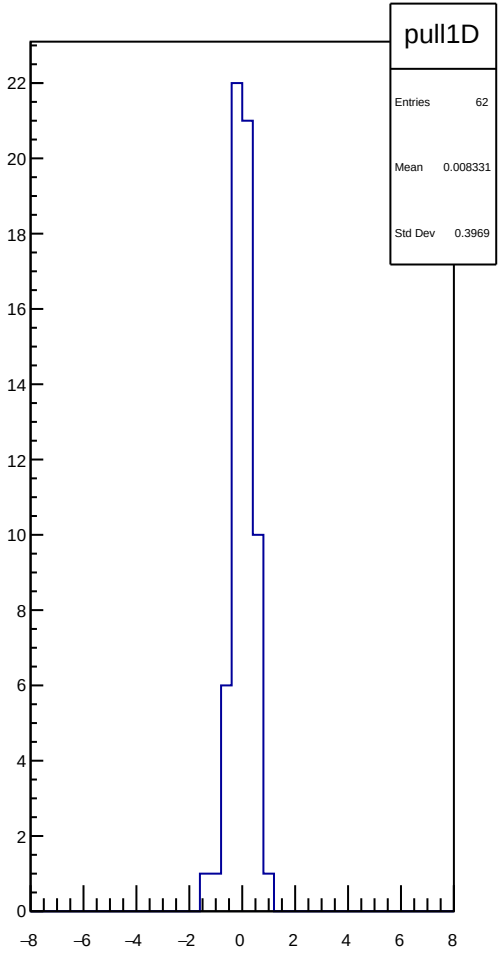

pull1D
Entries 62
Mean −0.004223
Std Dev 0.2636

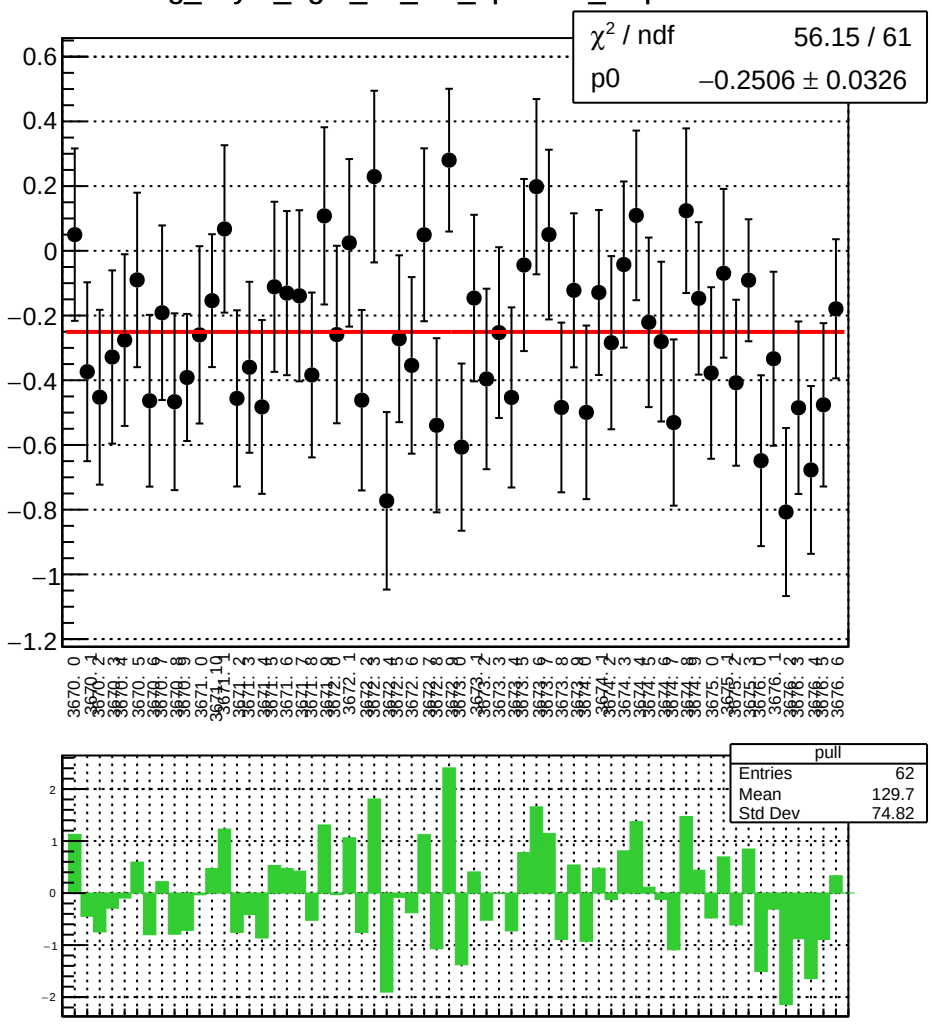

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.22 / 61
p0 43.16 ± 0.1473
pull
Entries 62
Mean −487.3
Std Dev 508

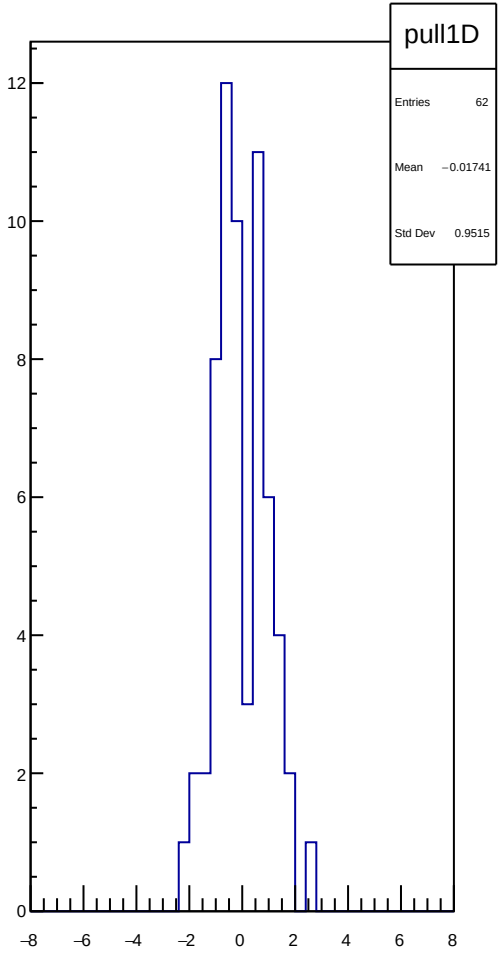

pull1D
Entries 62
Mean 0.01005
Std Dev 0.9265

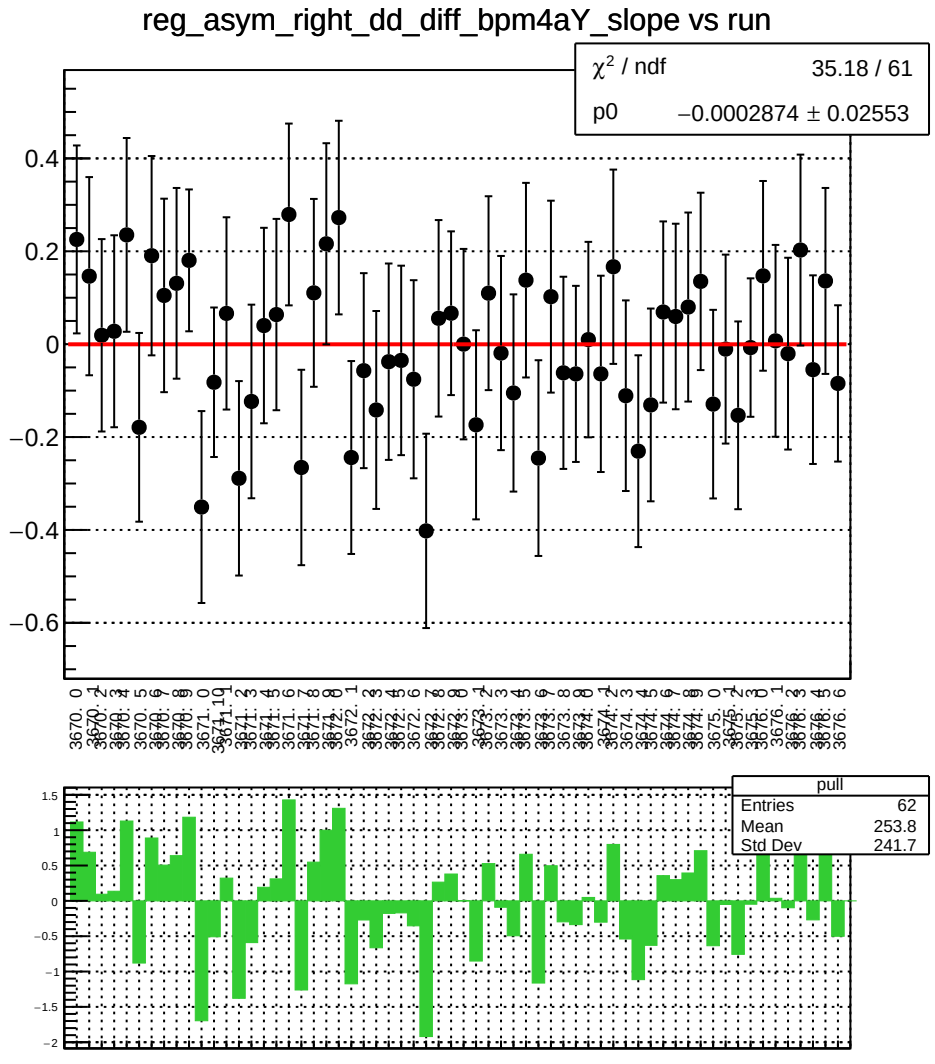

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.213 / 61
p0 −6.807 ± 0.9376
pull
Entries 62
Mean 36.33
Std Dev 21.98
pull1D
Entries 62
Mean 0.003938
Std Dev 0.2606

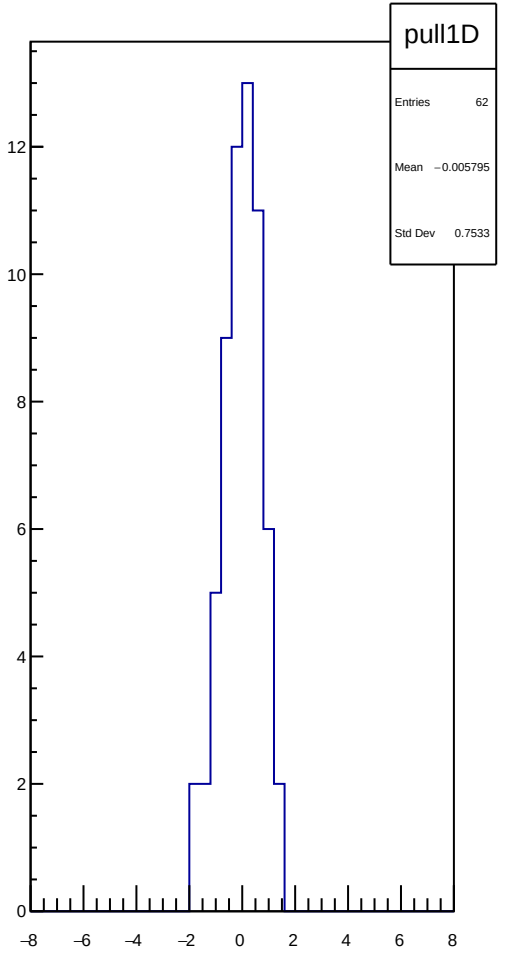

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 9.771 / 61
p0 −51.98 ± 0.143
pull
Entries 62
Mean −507.6
Std Dev 539.9

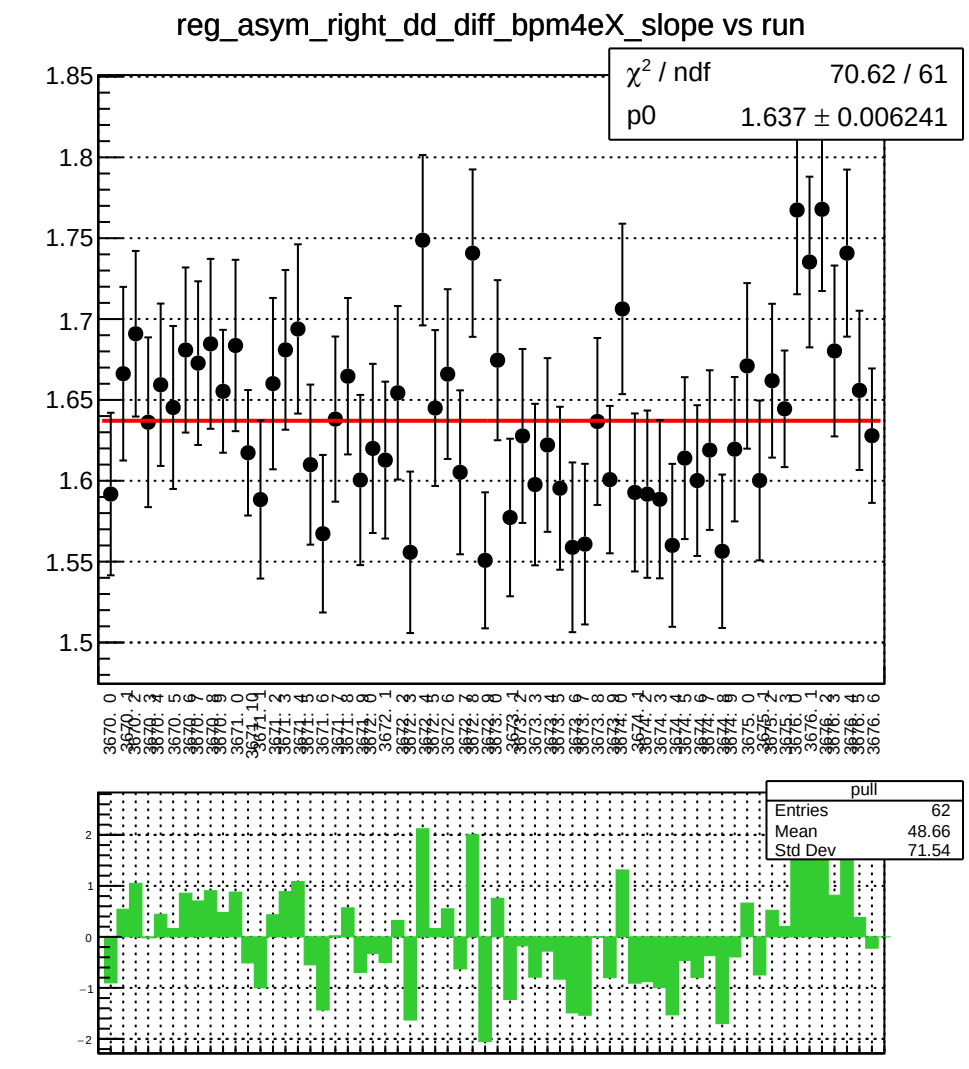

pull1D
Entries 62
Mean 0.008331
Std Dev 0.3969

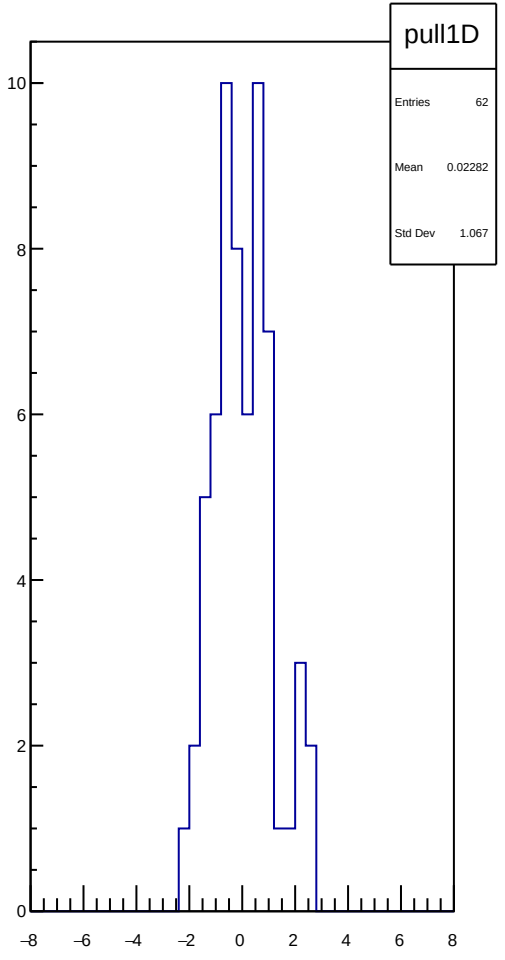

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 56.15 / 61
p0 −0.2506 ± 0.0326
pull
Entries 62
Mean 129.7
Std Dev 74.82

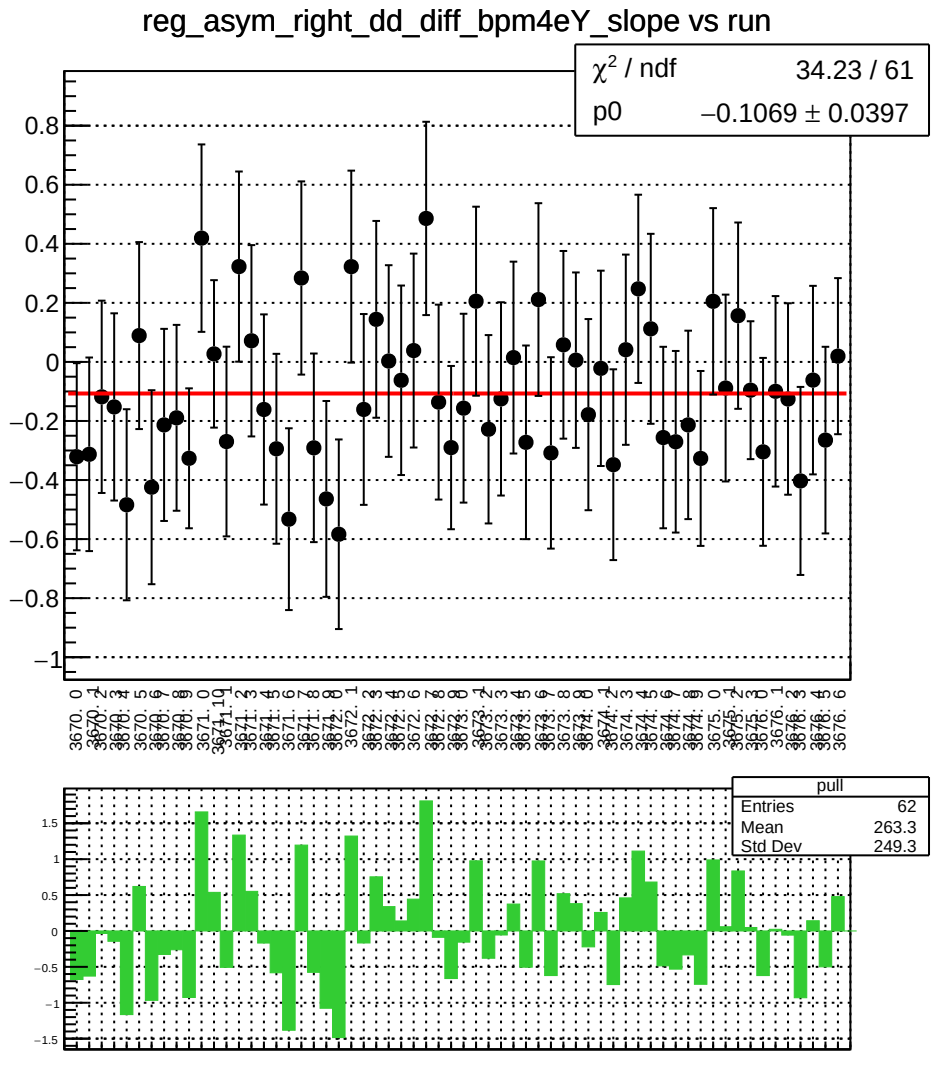

pull1D
Entries 62
Mean −0.01741
Std Dev 0.9515

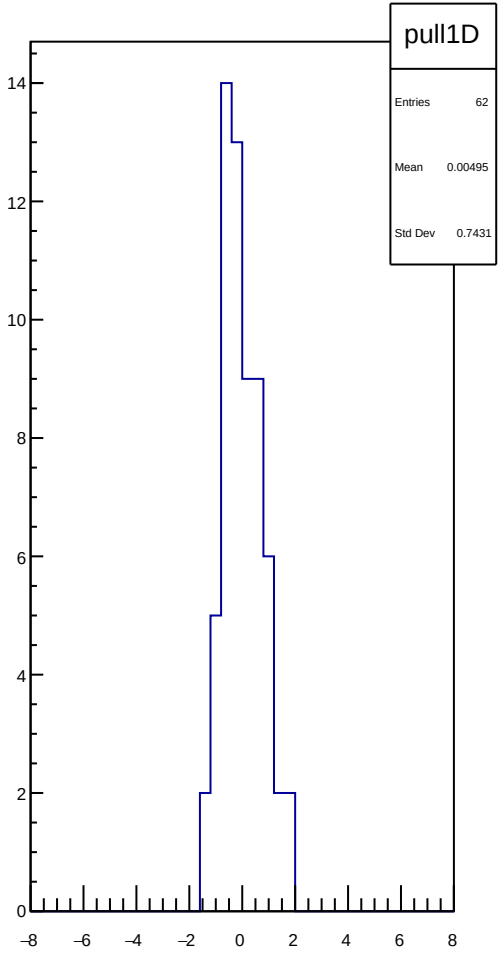

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.18 / 61
p0 −0.0002874 ± 0.02553
pull
Entries 62
Mean 253.8
Std Dev 241.7

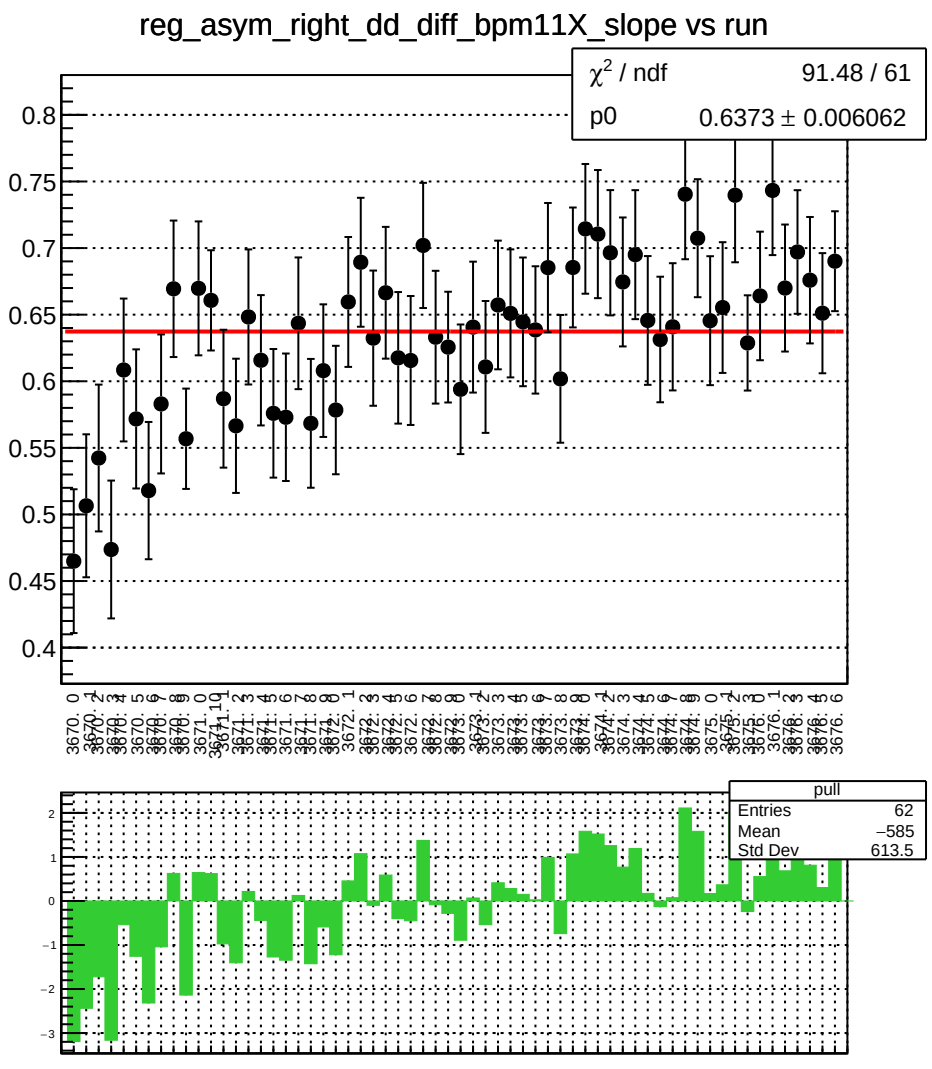

pull1D
Entries 62
Mean −0.005795
Std Dev 0.7533

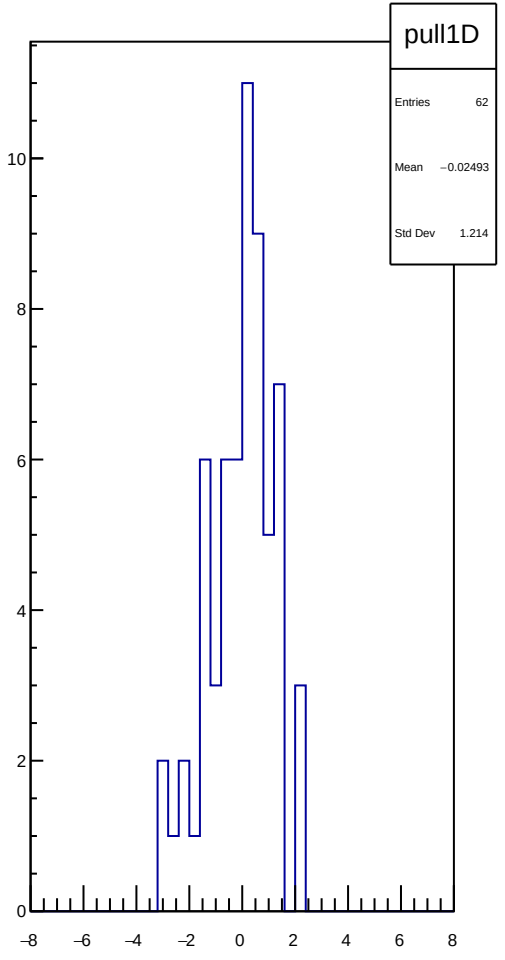

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.62 / 61
p0 1.637 ± 0.006241
pull
Entries 62
Mean 48.66
Std Dev 71.54

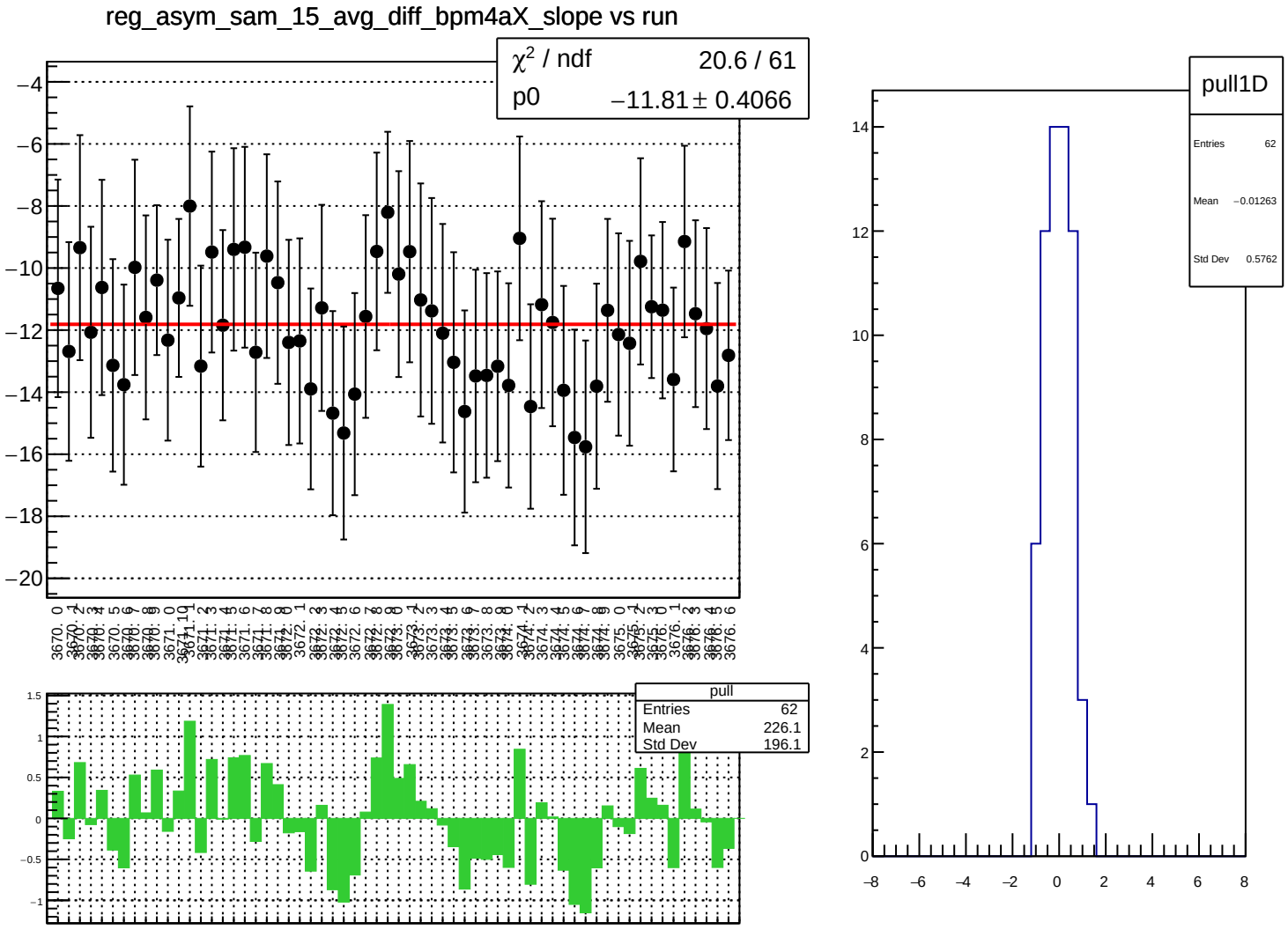

pull1D
Entries 62
Mean 0.02282
Std Dev 1.067

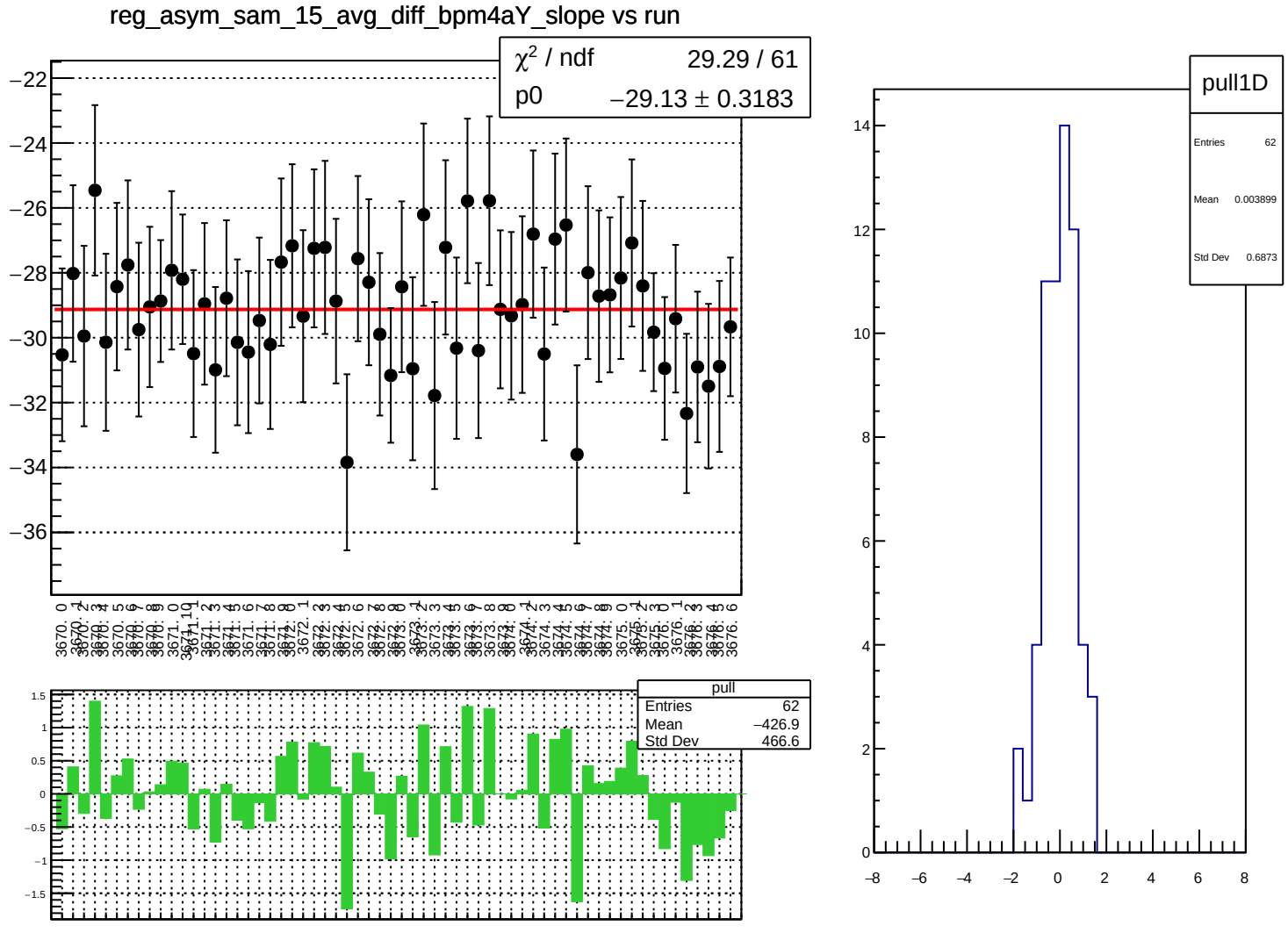

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.23 / 61
p0 −0.1069 ± 0.0397
pull
Entries 62
Mean 263.3
Std Dev 249.3

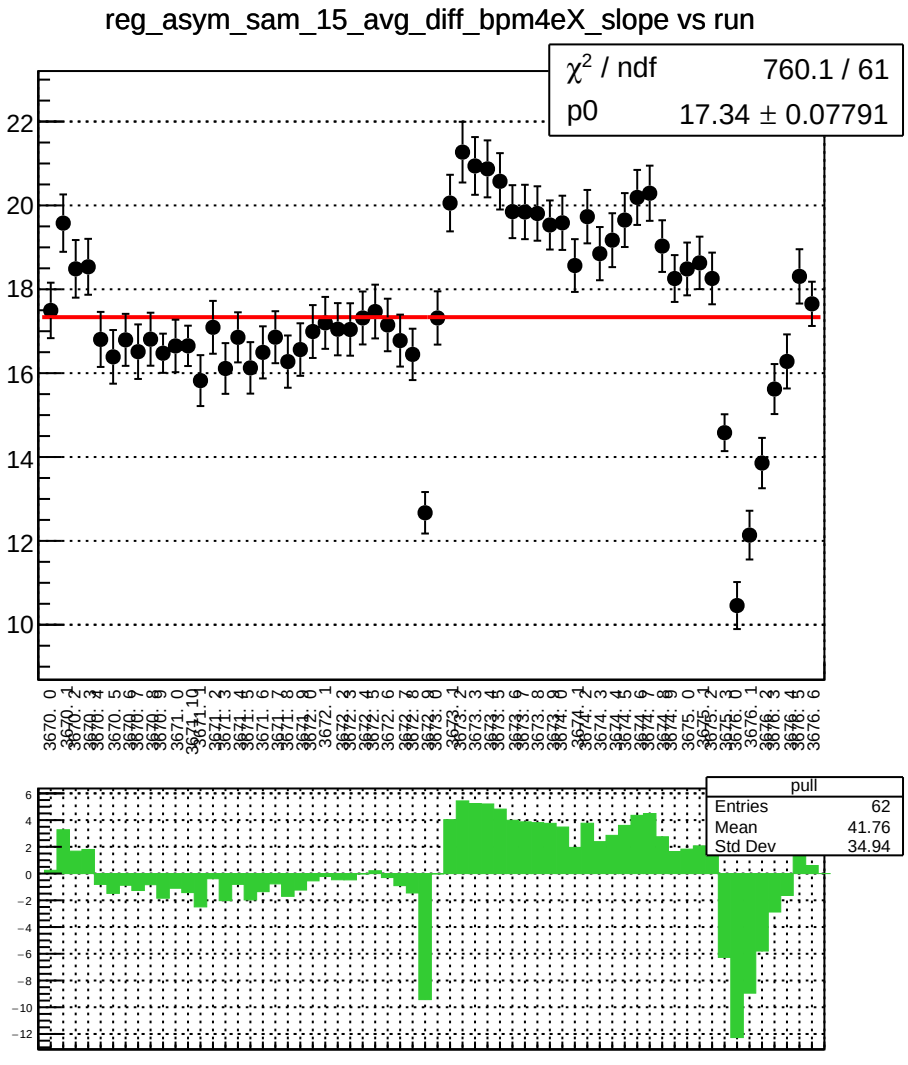

pull1D
Entries 62
Mean 0.00495
Std Dev 0.7431

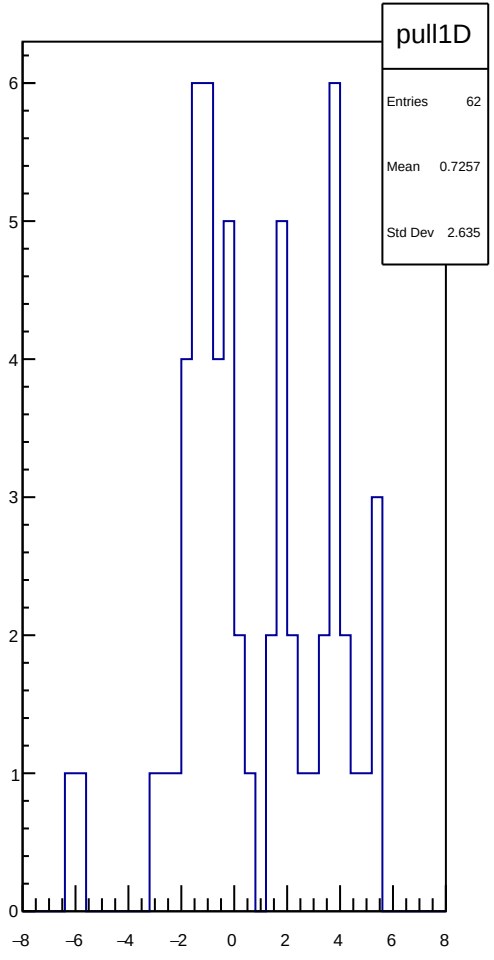

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 91.48 / 61
p0 0.6373 ± 0.006062
pull
Entries 62
Mean −585
Std Dev 613.5

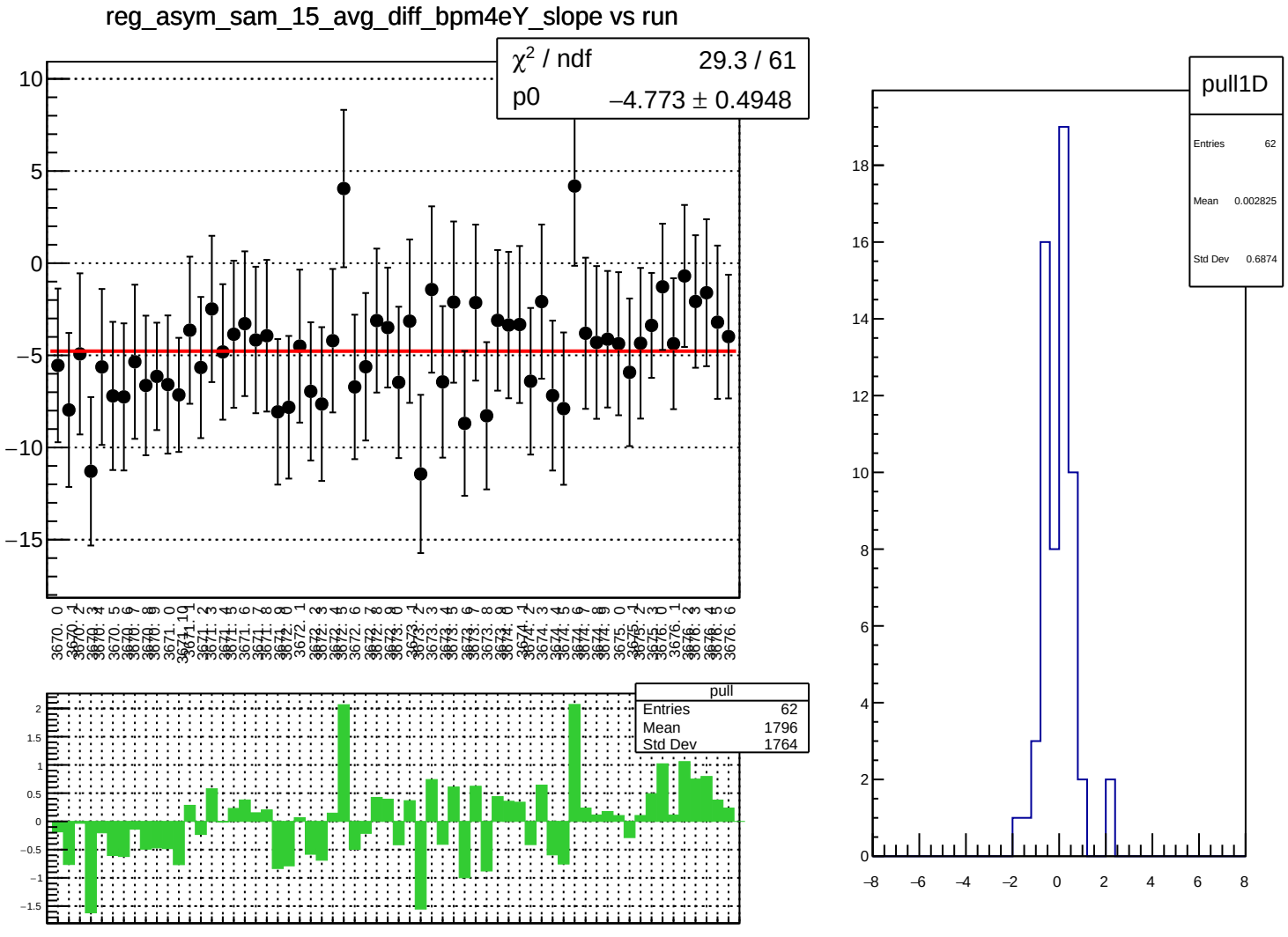

pull1D
Entries 62
Mean −0.02493
Std Dev 1.214

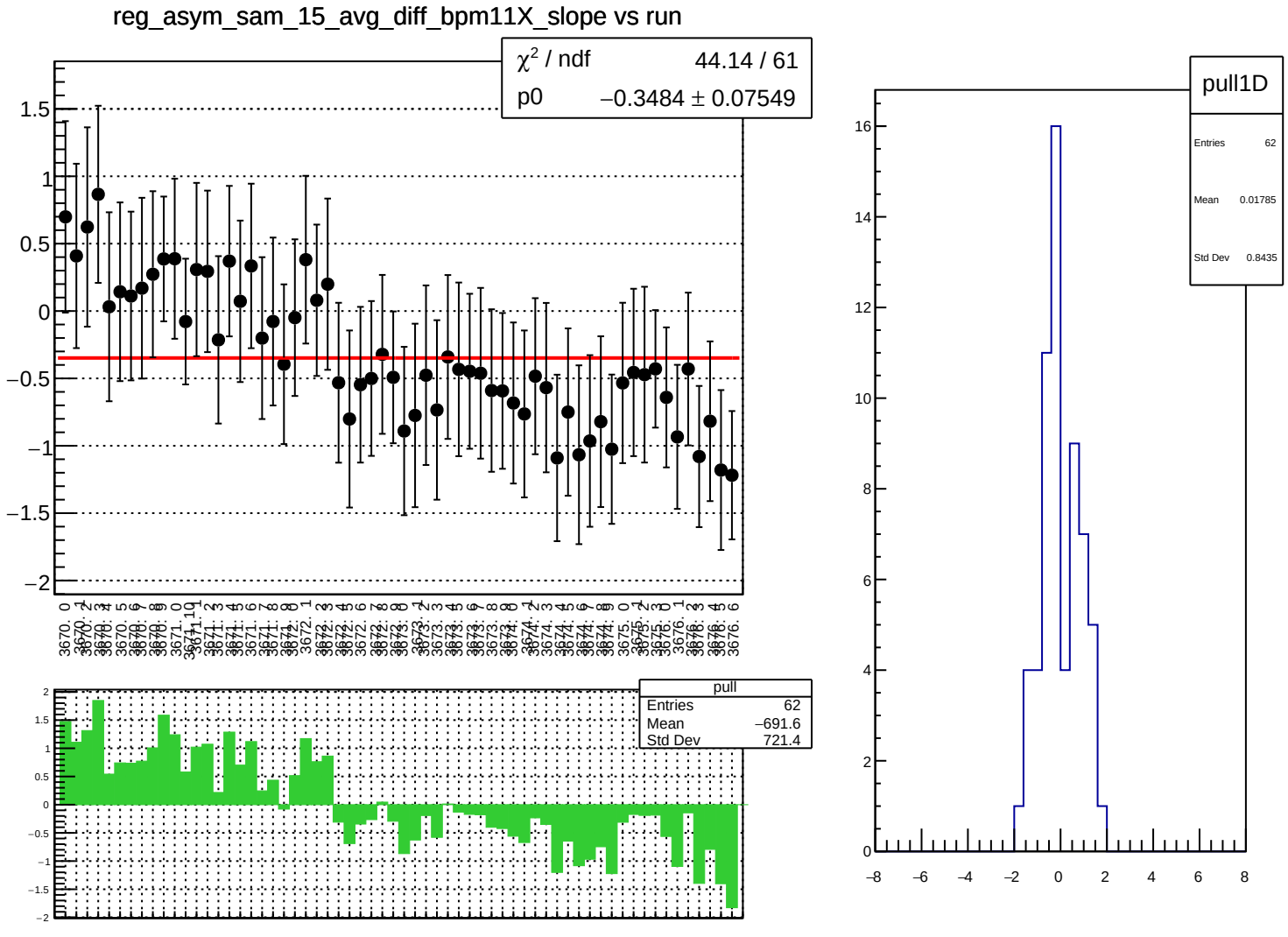

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.6 / 61
p0 −11.81 ± 0.4066
pull
Entries 62
Mean 226.1
Std Dev 196.1
pull1D
Entries 62
Mean −0.01263
Std Dev 0.5762

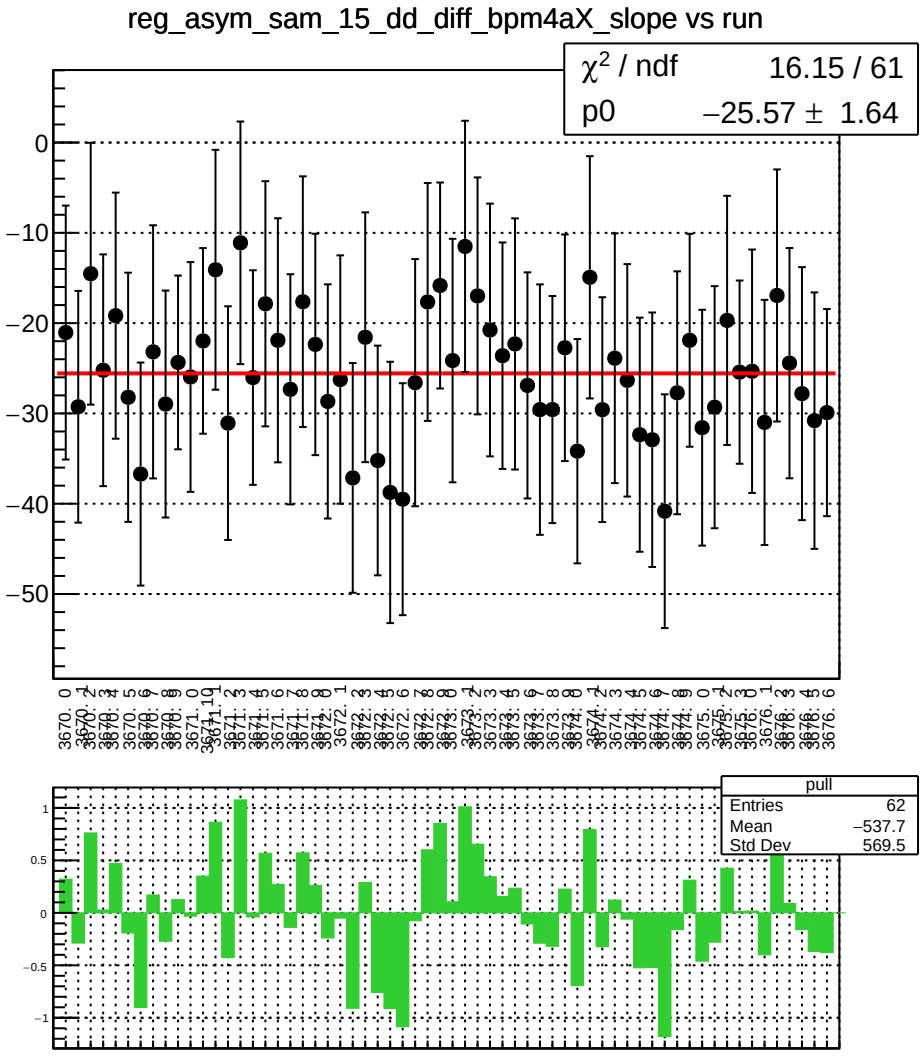

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.29 / 61
p0 −29.13 ± 0.3183
pull
Entries 62
Mean −426.9
Std Dev 466.6
pull1D
Entries 62
Mean 0.003899
Std Dev 0.6873

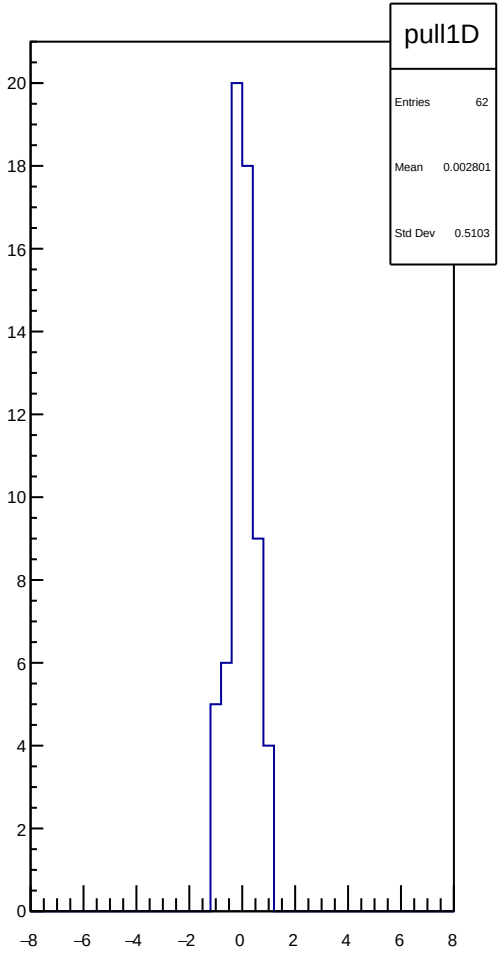

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 760.1 / 61
p0 17.34 ± 0.07791
pull
Entries 62
Mean 41.76
Std Dev 34.94

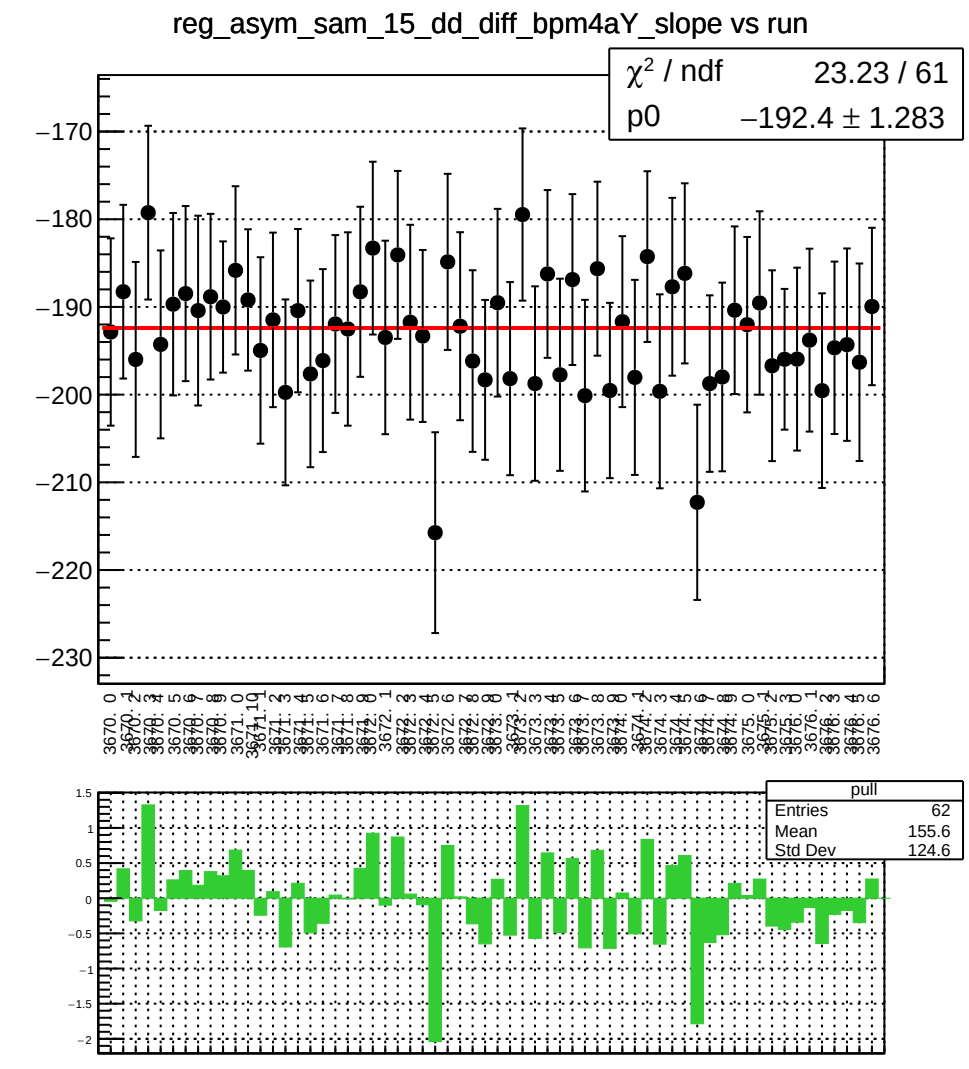

pull1D
Entries 62
Mean 0.7257
Std Dev 2.635

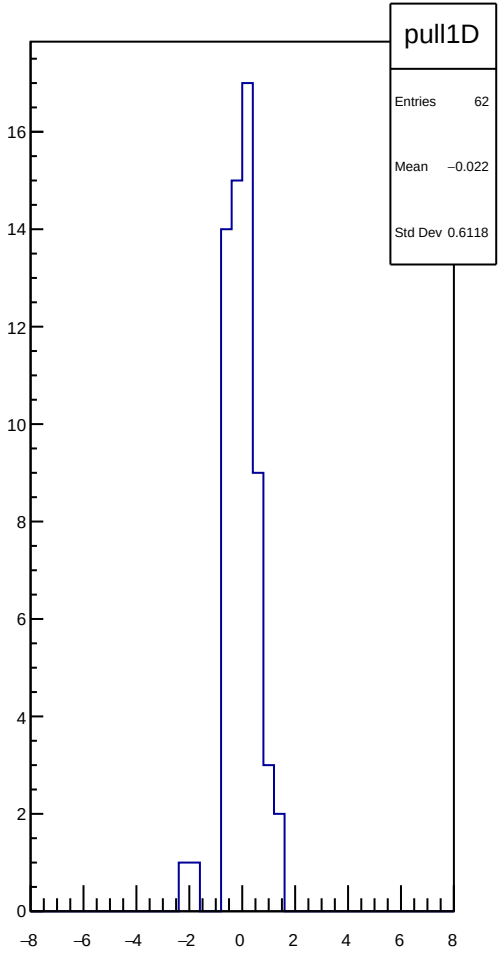

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.3 / 61
p0 −4.773 ± 0.4948
pull
Entries 62
Mean 1796
Std Dev 1764
pull1D
Entries 62
Mean 0.002825
Std Dev 0.6874

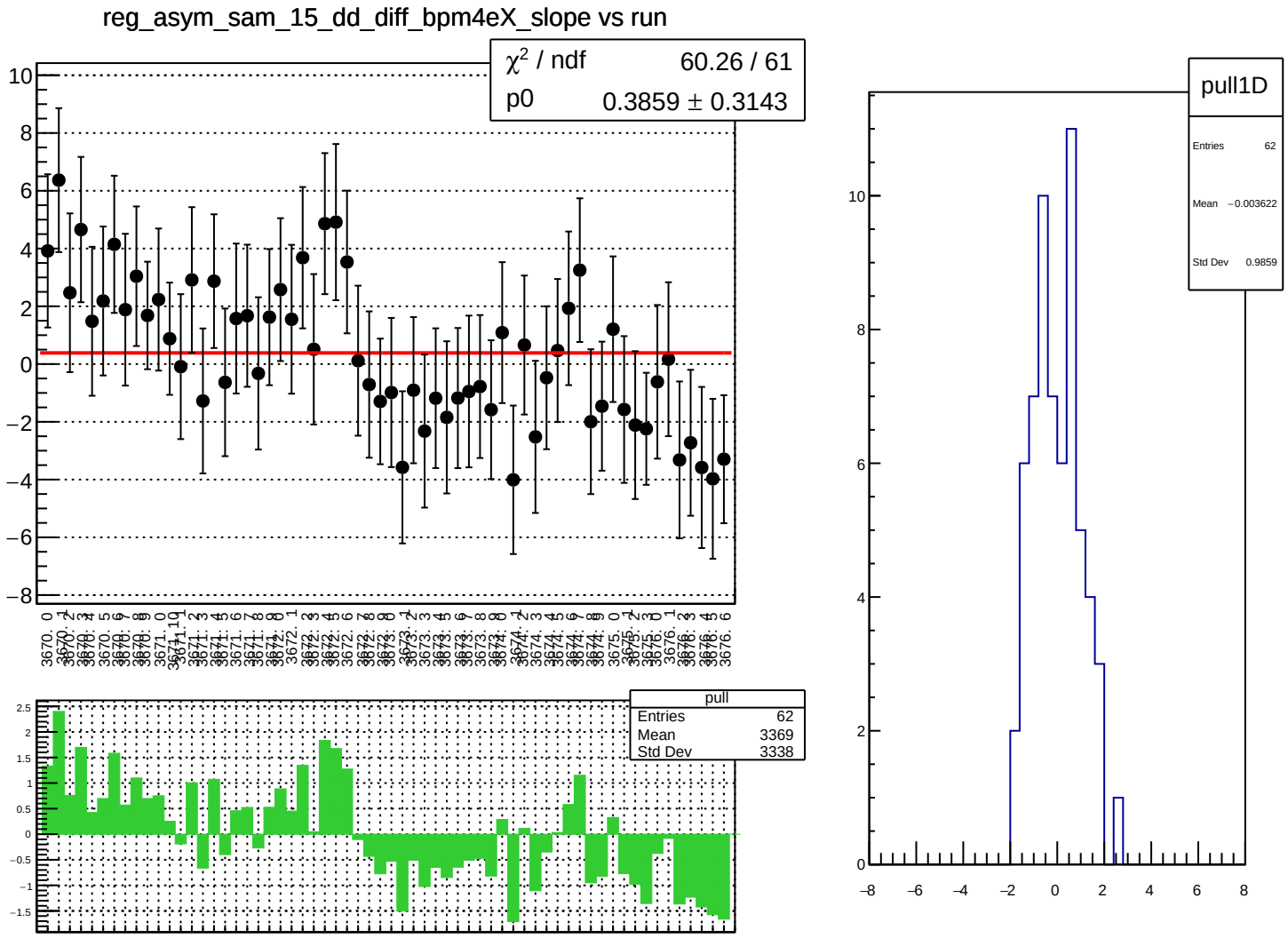

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 44.14 / 61
p0 −0.3484 ± 0.07549
pull
Entries 62
Mean −691.6
Std Dev 721.4
pull1D
Entries 62
Mean 0.01785
Std Dev 0.8435

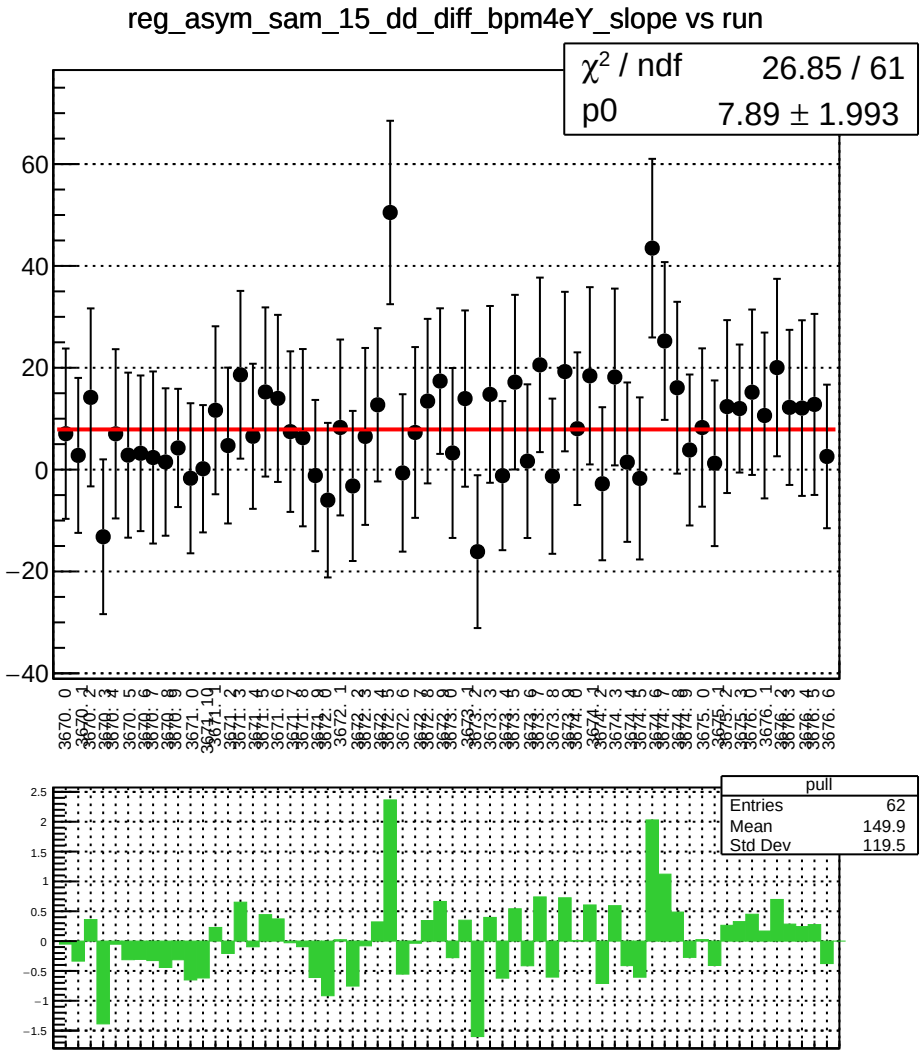

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 16.15 / 61
p0 −25.57 ± 1.64
pull
Entries 62
Mean −537.7
Std Dev 569.5

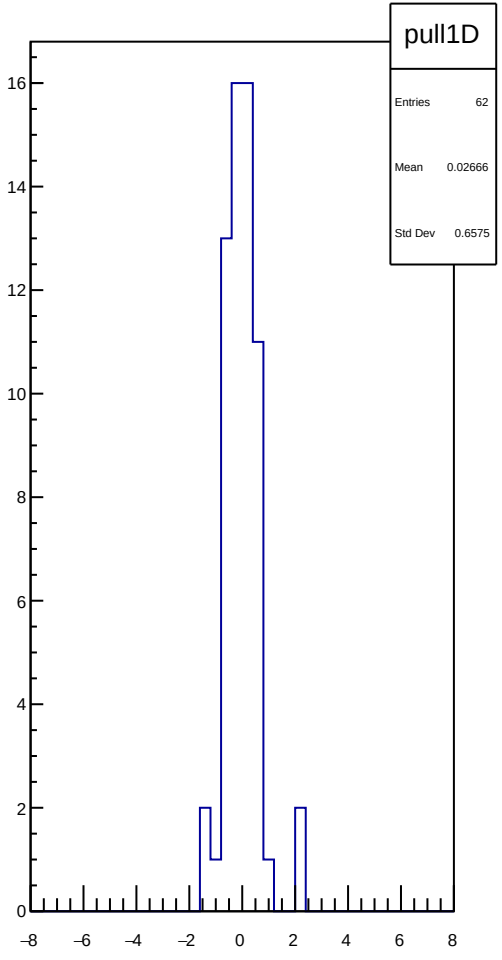

pull1D
Entries 62
Mean 0.002801
Std Dev 0.5103

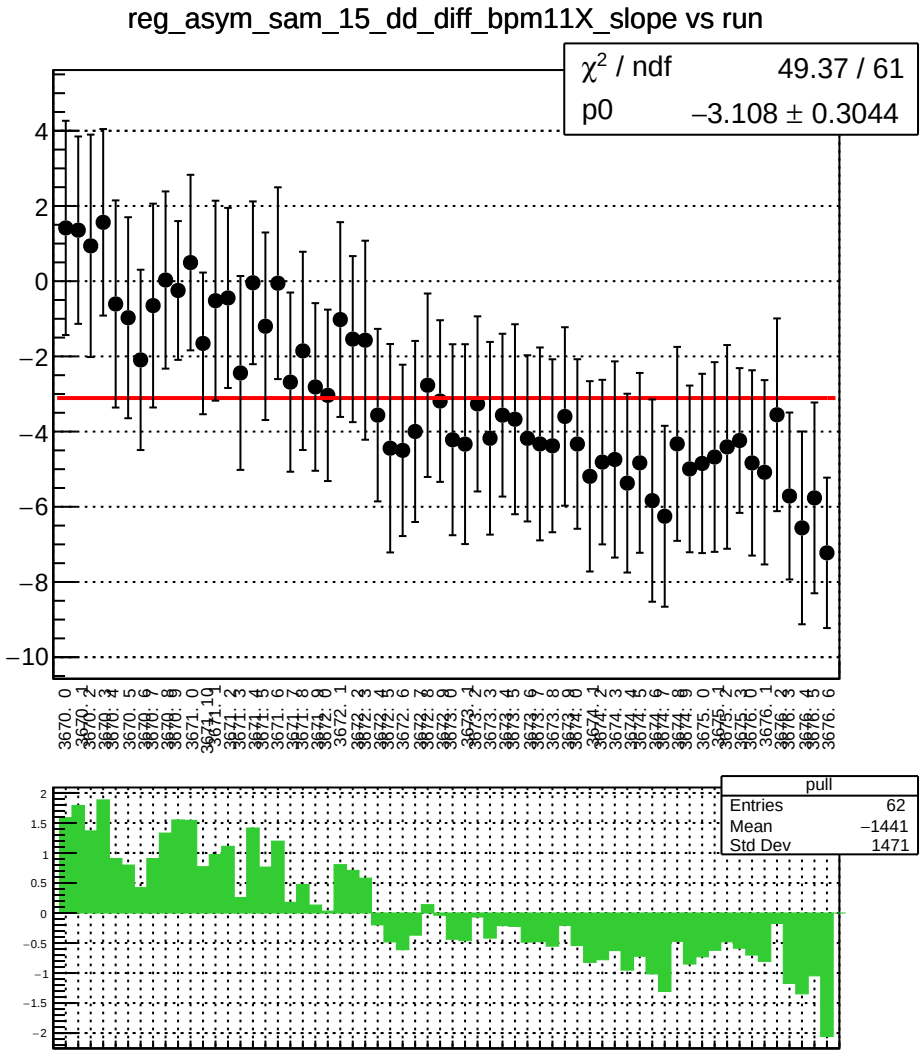

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.23 / 61
p0 −192.4 ± 1.283
pull
Entries 62
Mean 155.6
Std Dev 124.6

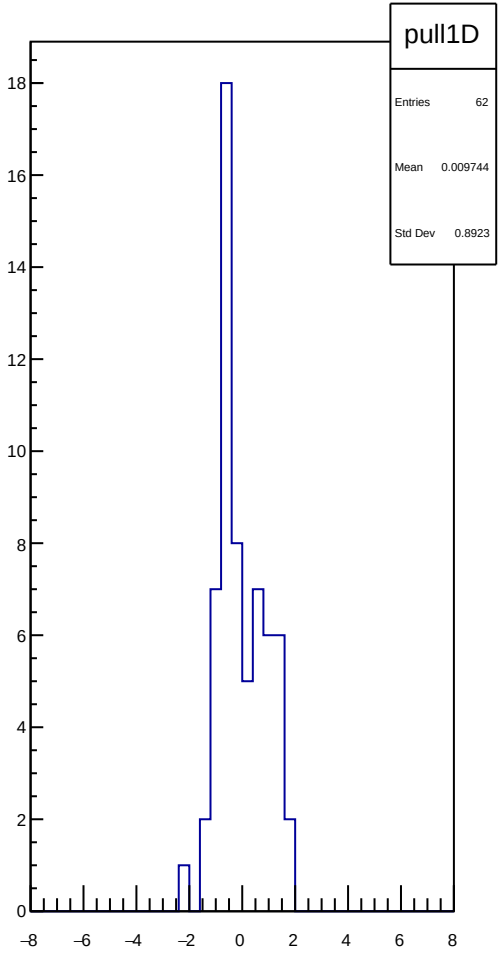

pull1D
Entries 62
Mean −0.022
Std Dev 0.6118

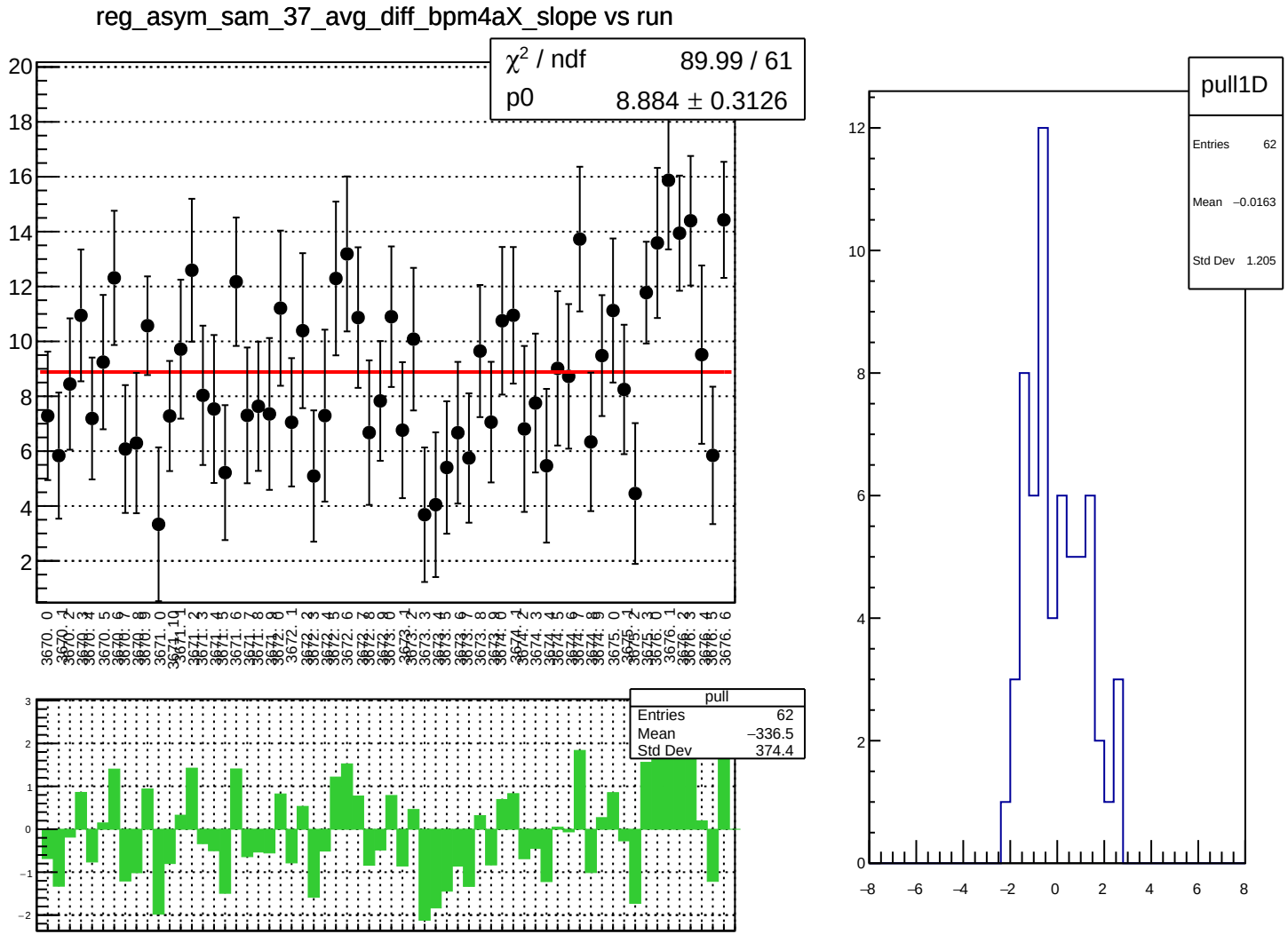

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.26 / 61
p0 0.3859 ± 0.3143
pull
Entries 62
Mean 3369
Std Dev 3338
pull1D
Entries 62
Mean −0.003622
Std Dev 0.9859

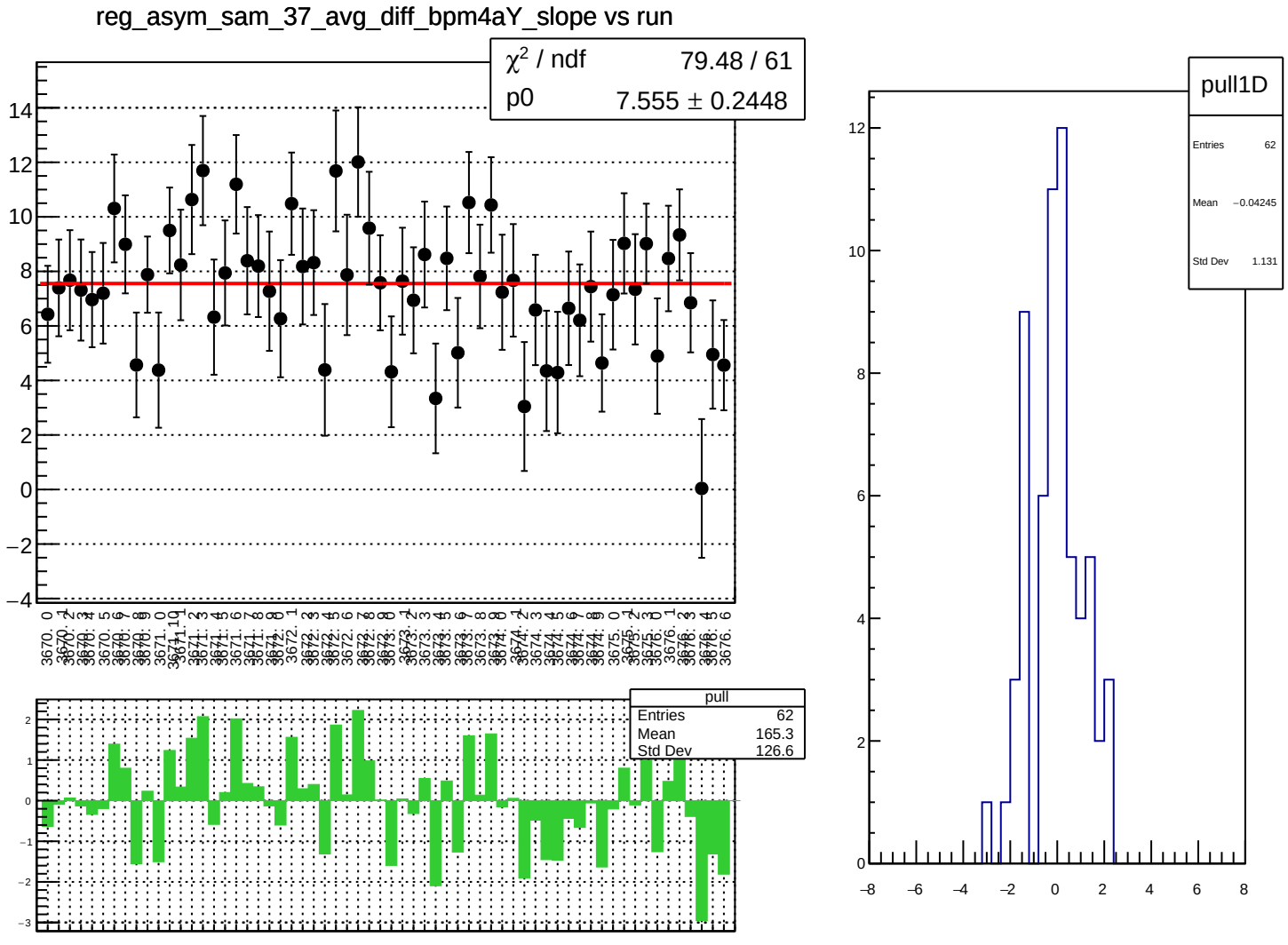

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.85 / 61
p0 7.89 ± 1.993
pull
Entries 62
Mean 149.9
Std Dev 119.5

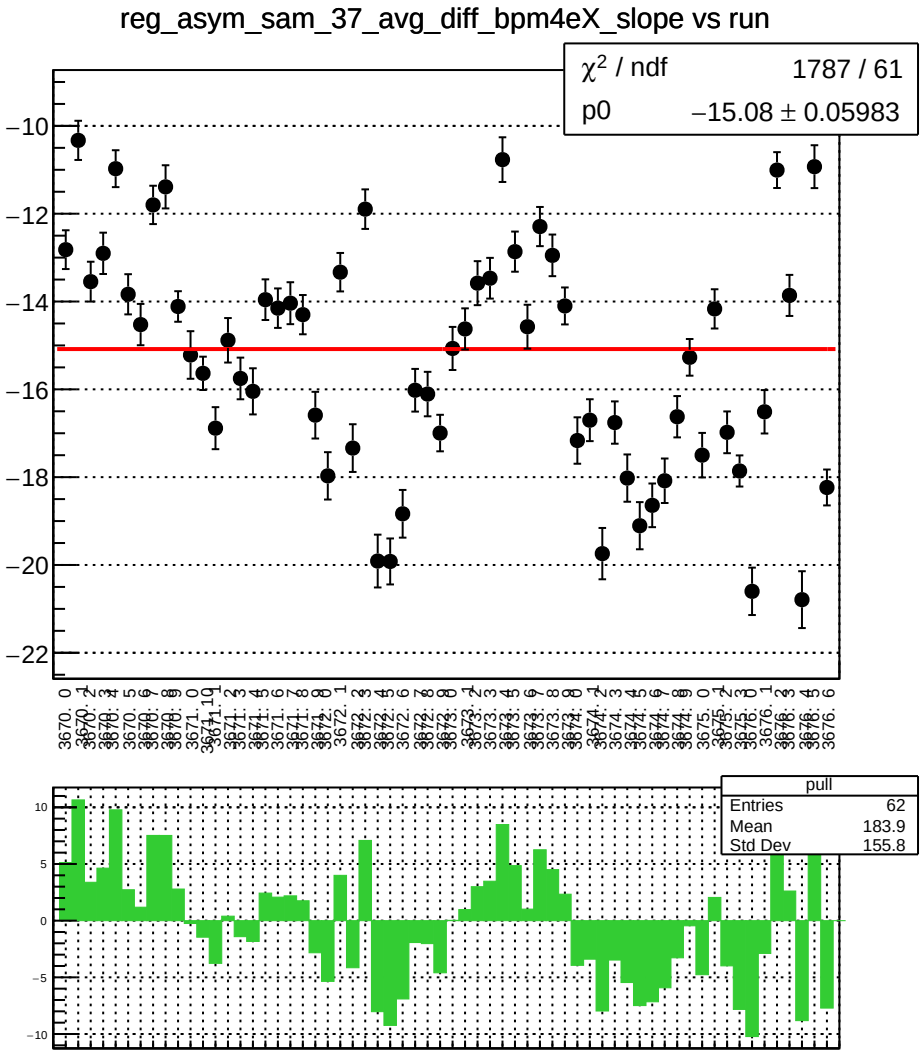

pull1D
Entries 62
Mean 0.02666
Std Dev 0.6575

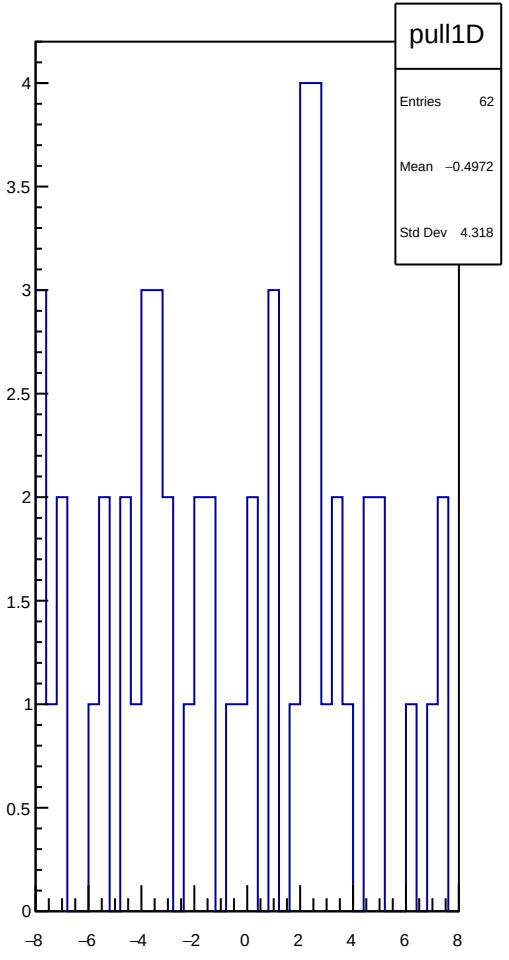

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 49.37 / 61
p0 −3.108 ± 0.3044
pull
Entries 62
Mean −1441
Std Dev 1471

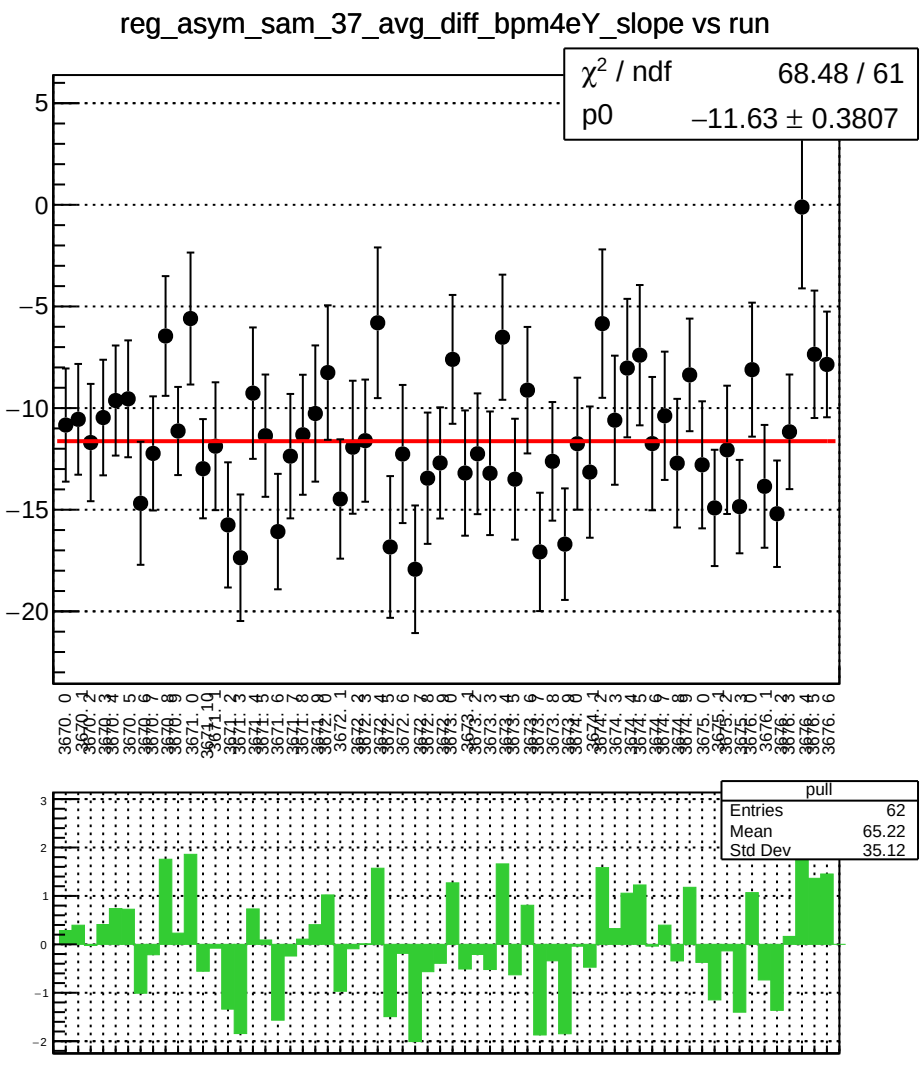

pull1D
Entries 62
Mean 0.009744
Std Dev 0.8923

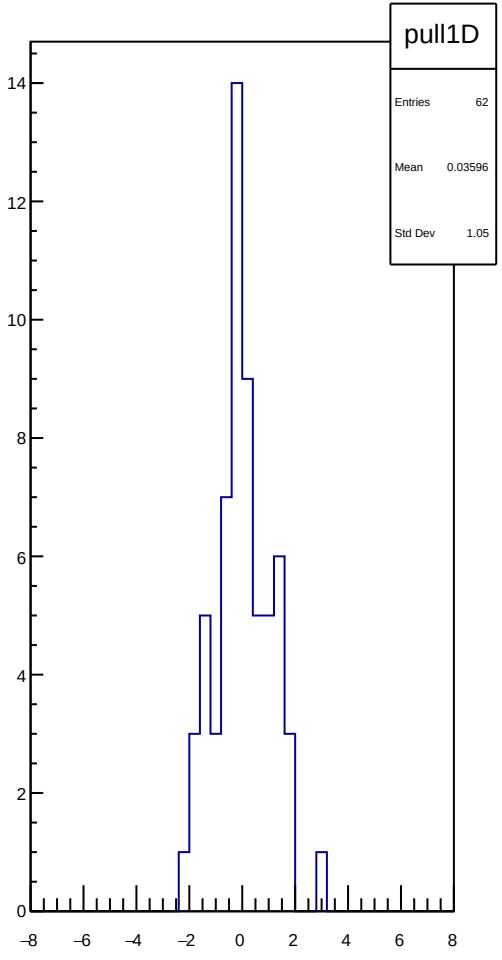

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 89.99 / 61
p0 8.884 ± 0.3126
pull
Entries 62
Mean −336.5
Std Dev 374.4
pull1D
Entries 62
Mean −0.0163
Std Dev 1.205

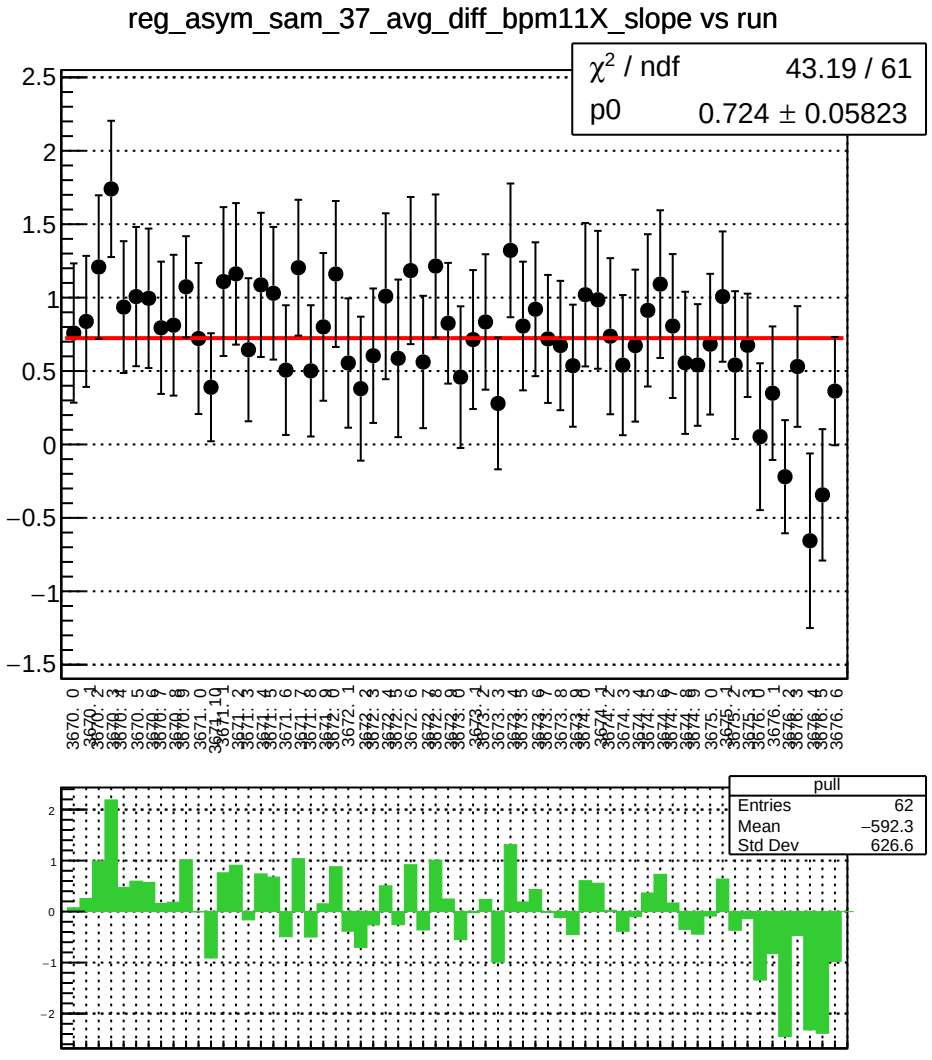

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.48 / 61
p0 7.555 ± 0.2448
pull
Entries 62
Mean 165.3
Std Dev 126.6
pull1D
Entries 62
Mean −0.04245
Std Dev 1.131

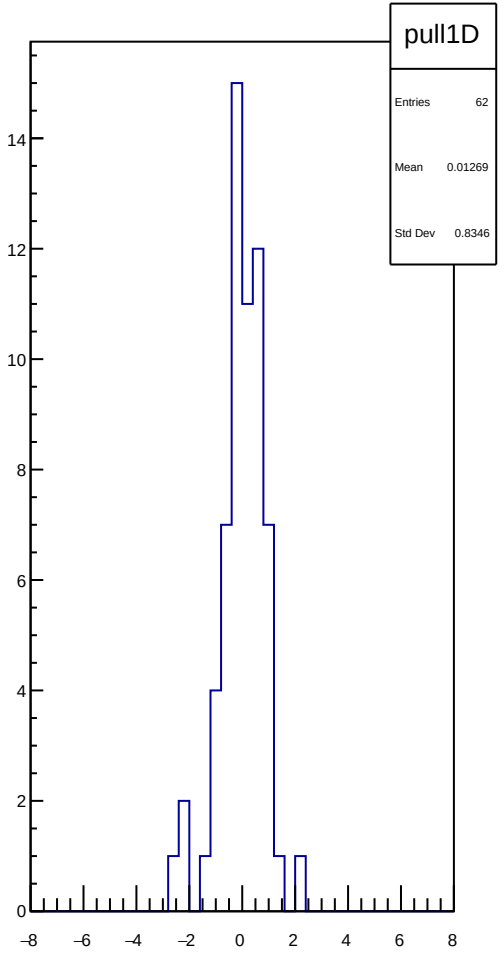

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1787 / 61
p0 −15.08 ± 0.05983
pull
Entries 62
Mean 183.9
Std Dev 155.8

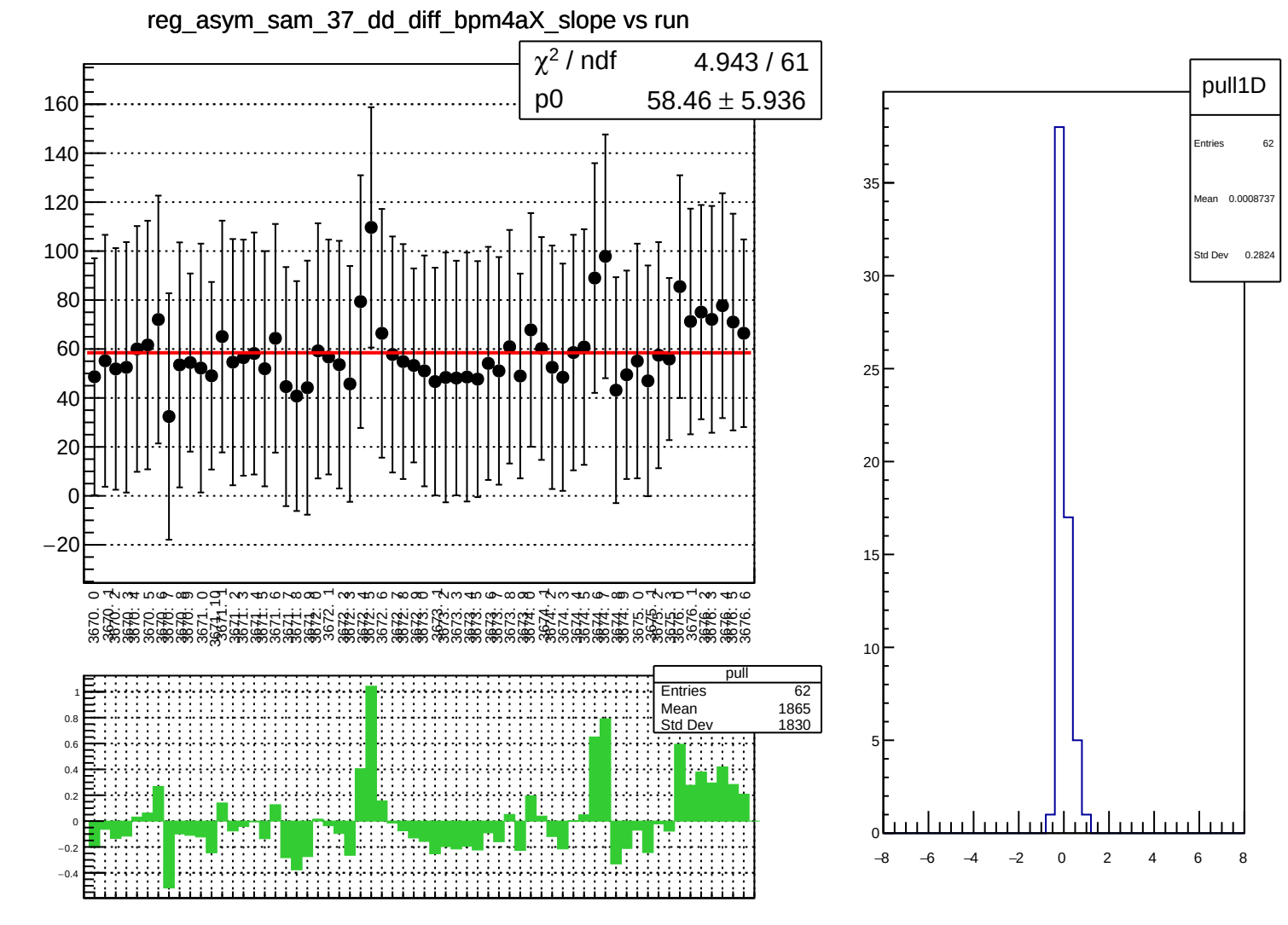

pull1D
Entries 62
Mean −0.4972
Std Dev 4.318

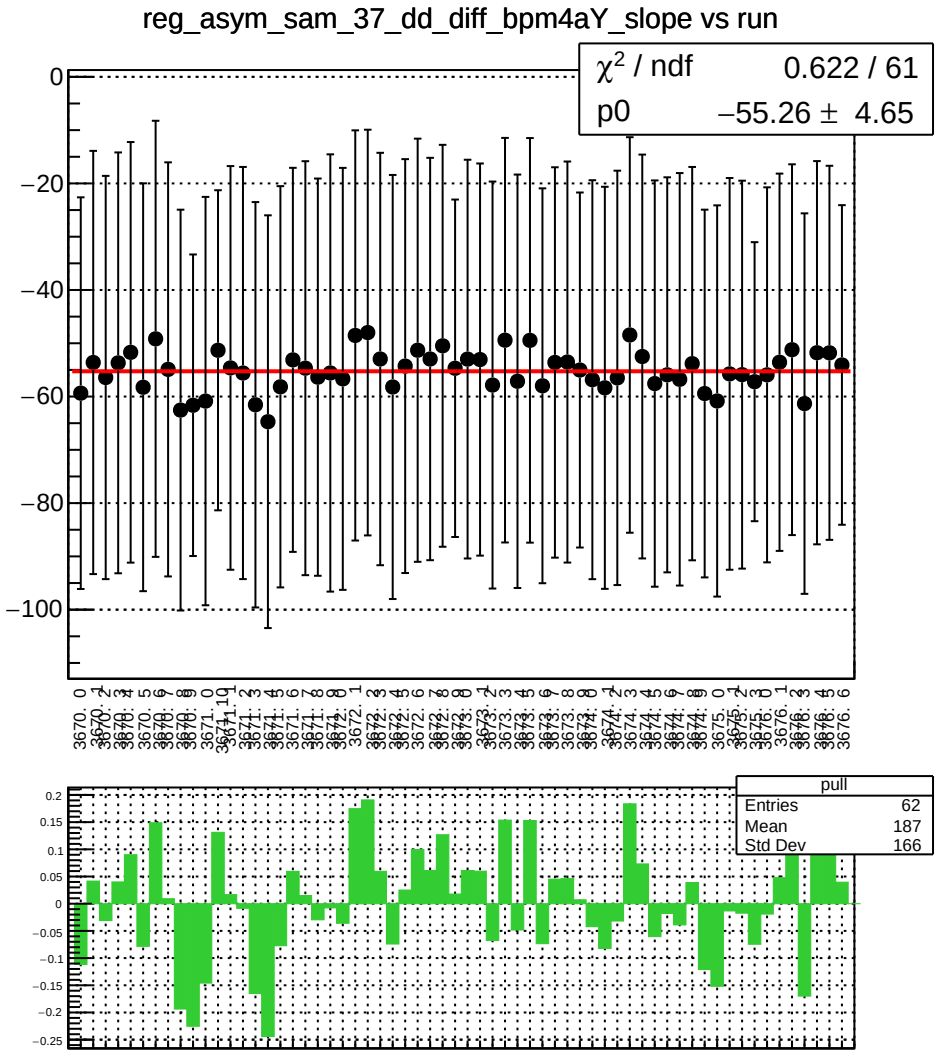

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.48 / 61
p0 −11.63 ± 0.3807
pull
Entries 62
Mean 65.22
Std Dev 35.12

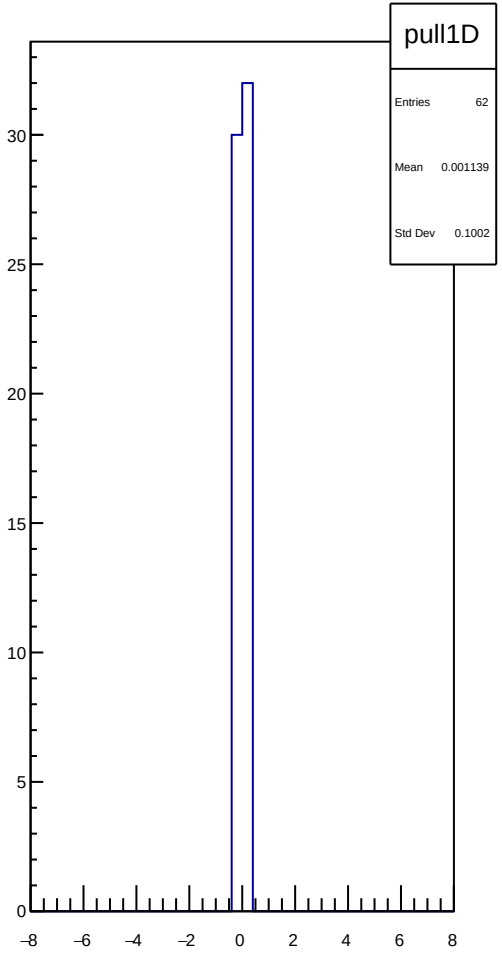

pull1D
Entries 62
Mean 0.03596
Std Dev 1.05

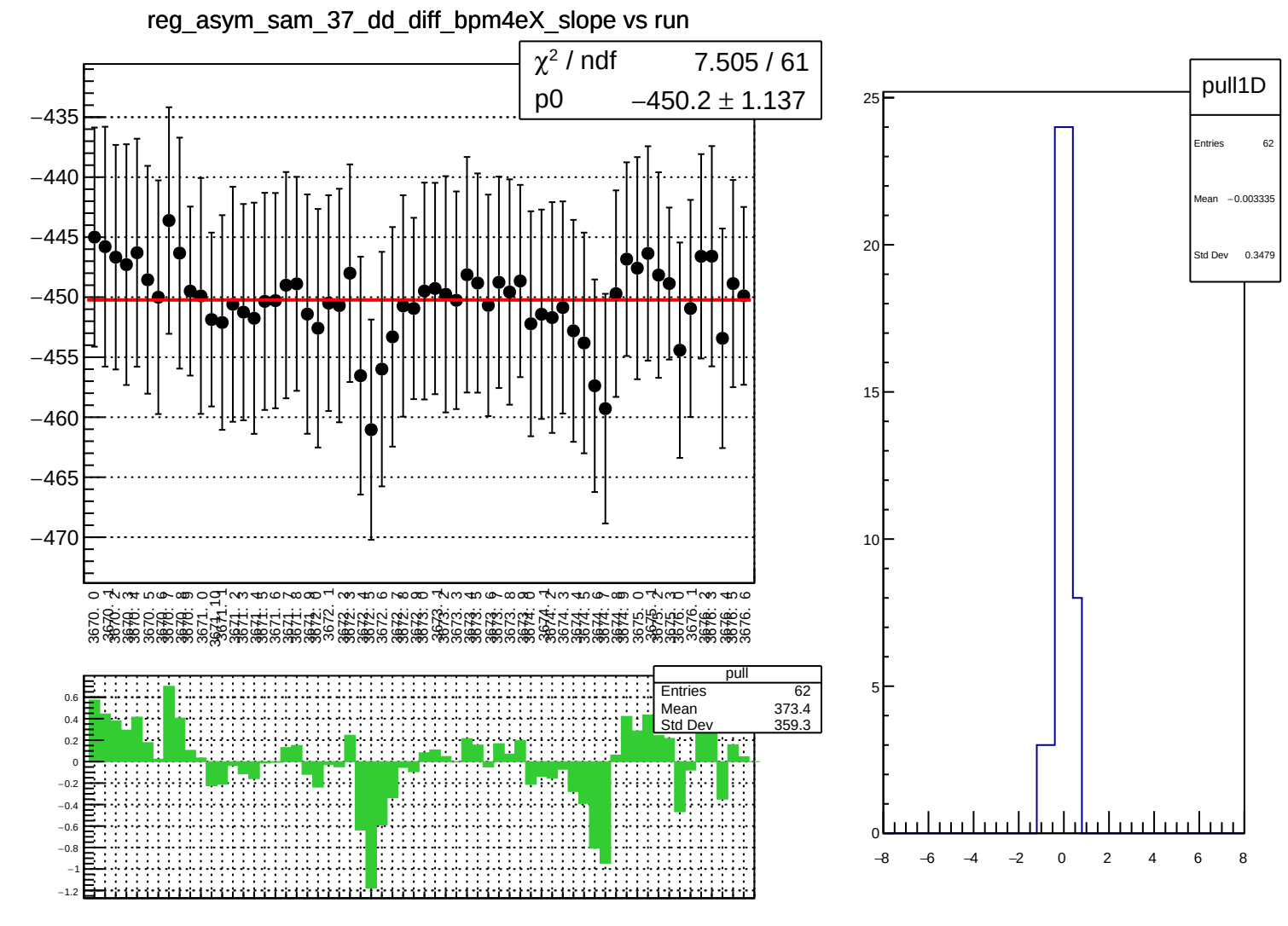

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 43.19 / 61
p0 0.724 ± 0.05823
pull
Entries 62
Mean −592.3
Std Dev 626.6

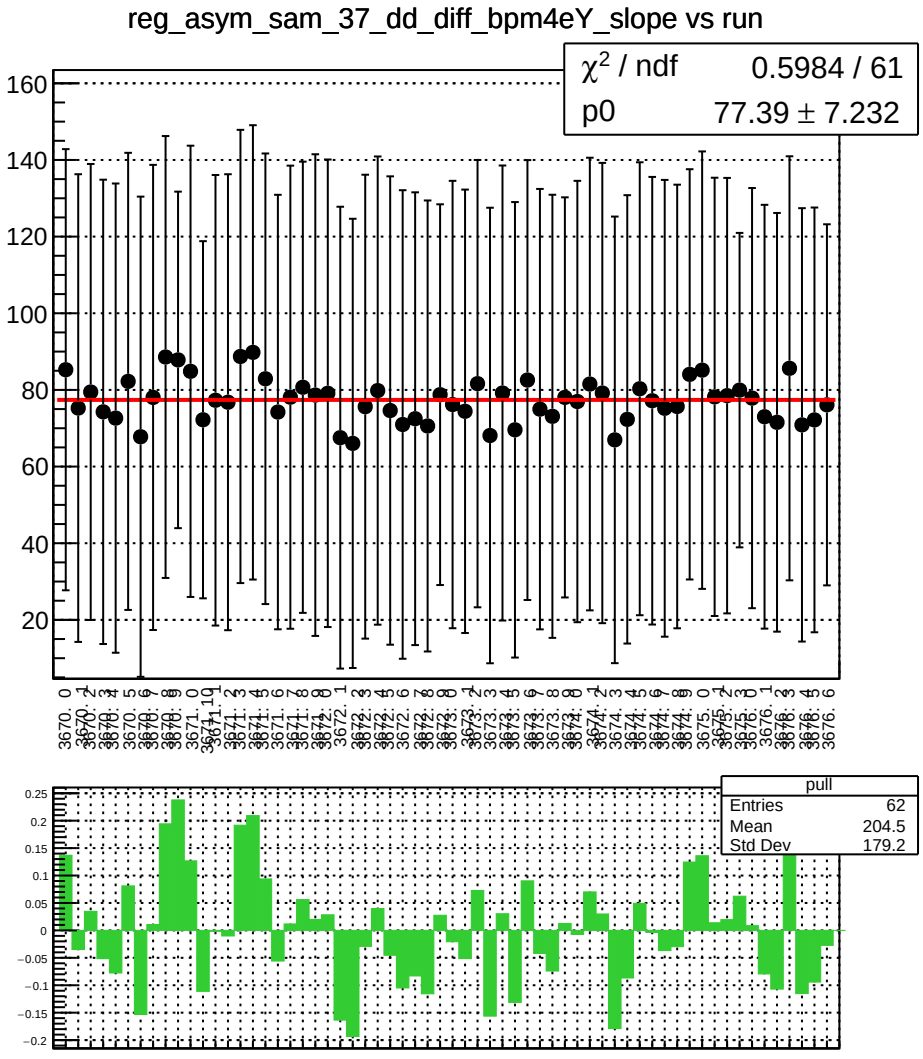

pull1D
Entries 62
Mean 0.01269
Std Dev 0.8346

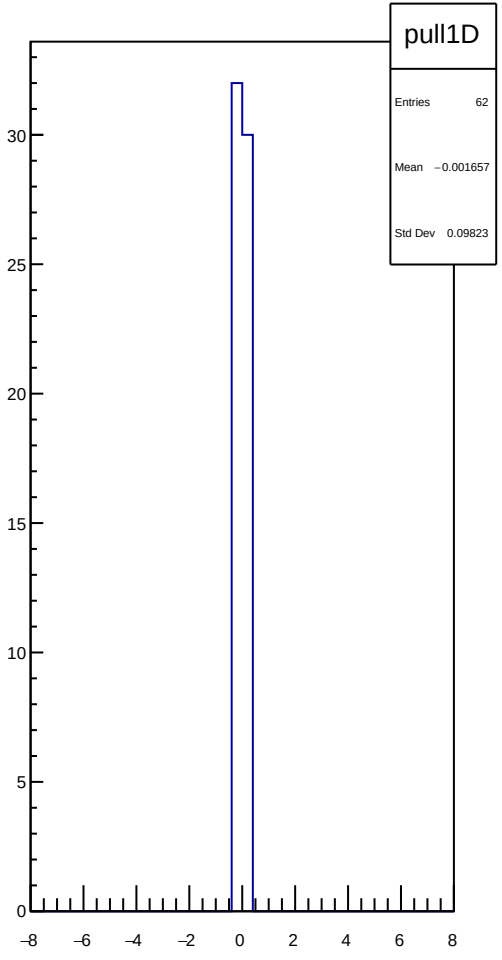

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.943 / 61
p0 58.46 ± 5.936
pull
Entries 62
Mean 1865
Std Dev 1830
pull1D
Entries 62
Mean 0.0008737
Std Dev 0.2824

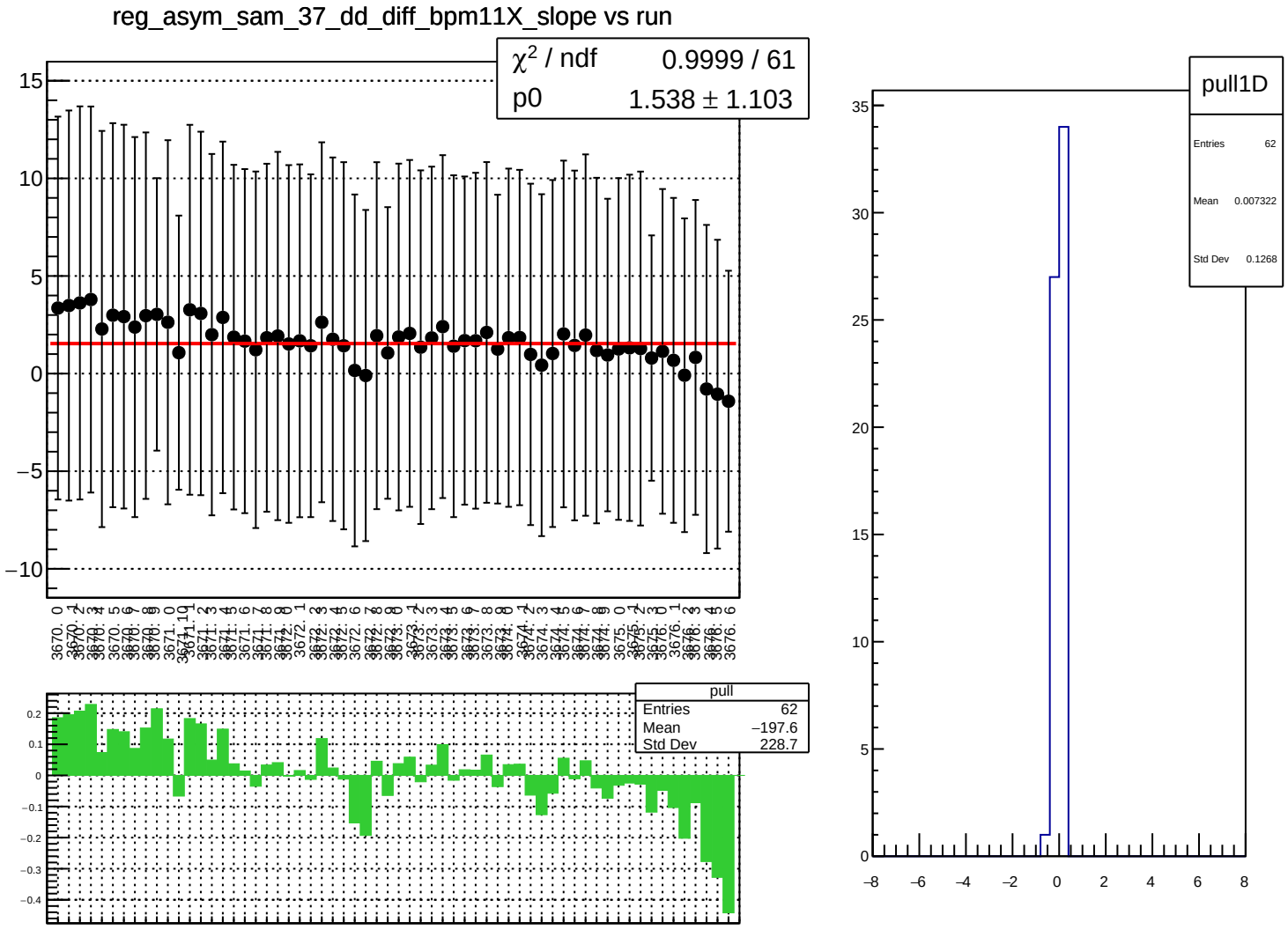

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.622 / 61
p0 −55.26 ± 4.65
pull
Entries 62
Mean 187
Std Dev 166

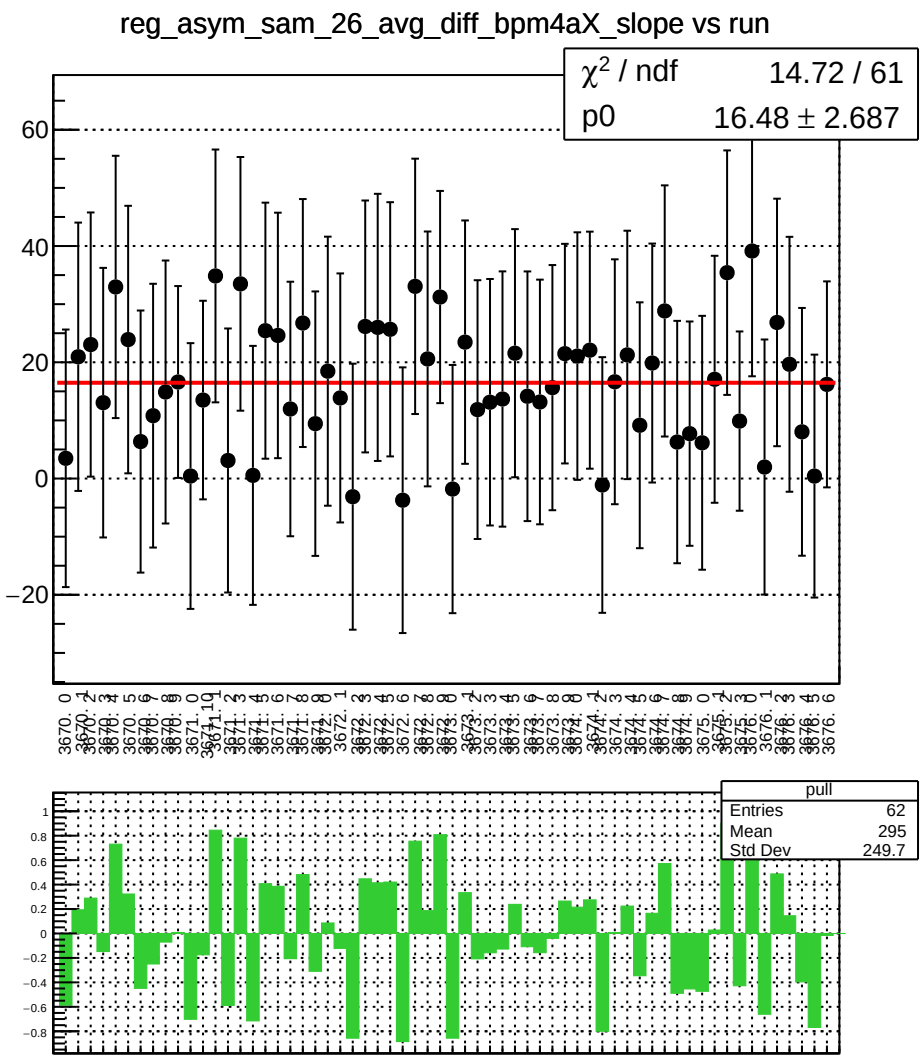

pull1D
Entries 62
Mean 0.001139
Std Dev 0.1002

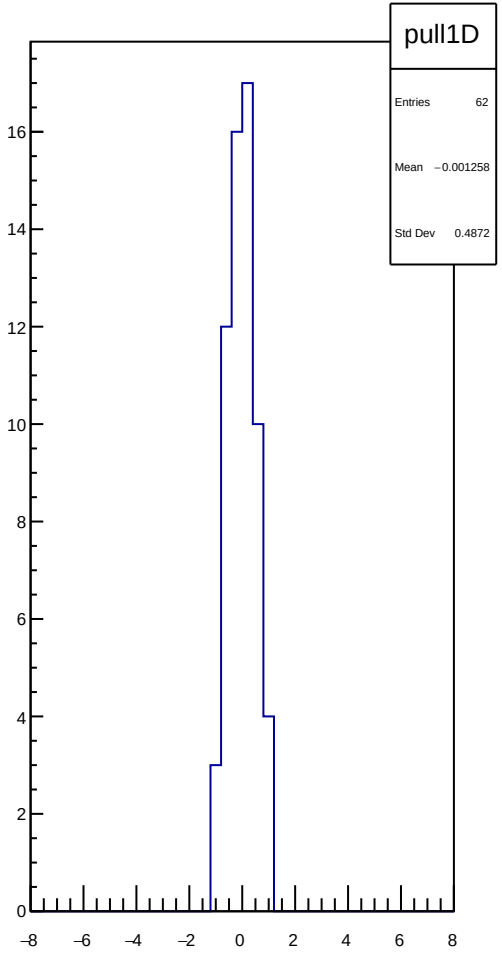

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.505 / 61
p0 −450.2 ± 1.137
pull
Entries 62
Mean 373.4
Std Dev 359.3
pull1D
Entries 62
Mean −0.003335
Std Dev 0.3479

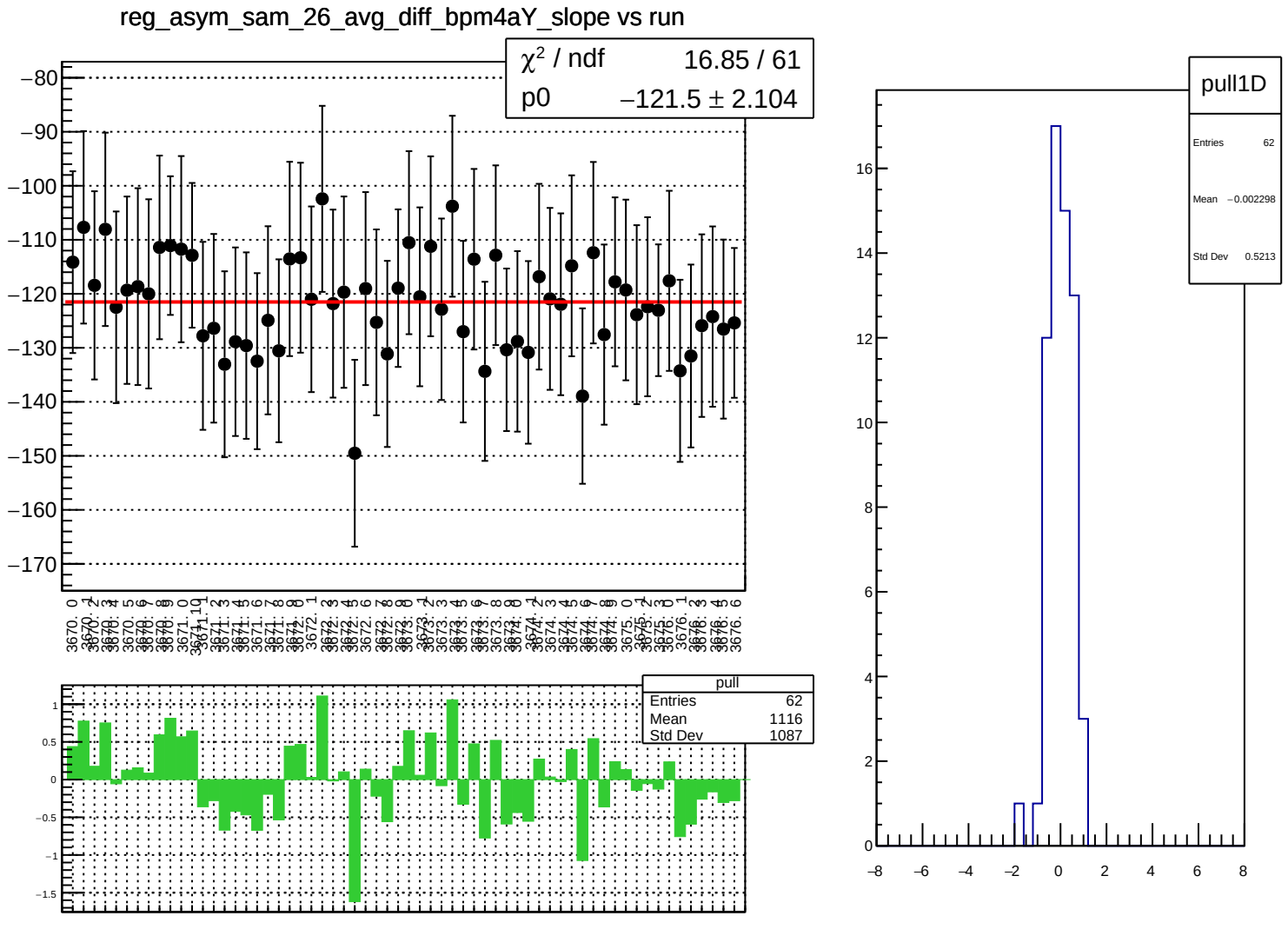

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5984 / 61
p0 77.39 ± 7.232
pull
Entries 62
Mean 204.5
Std Dev 179.2

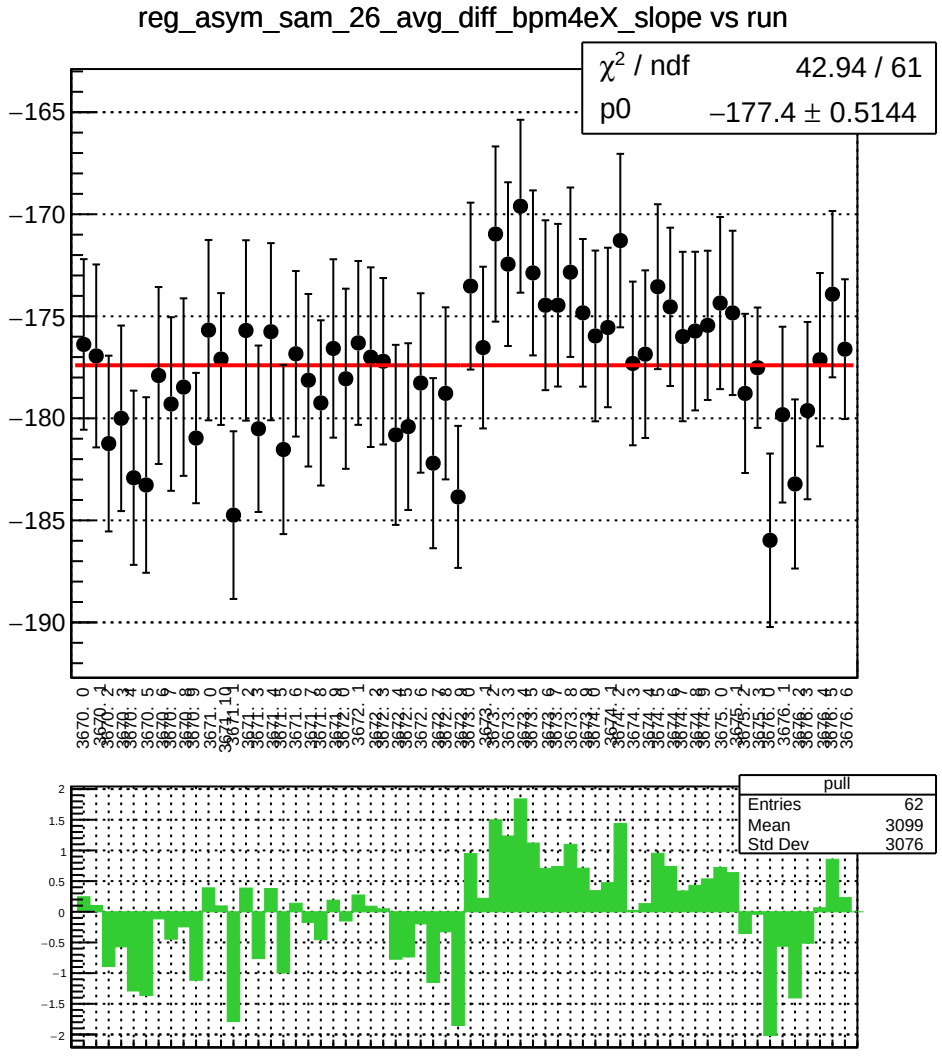

pull1D
Entries 62
Mean −0.001657
Std Dev 0.09823

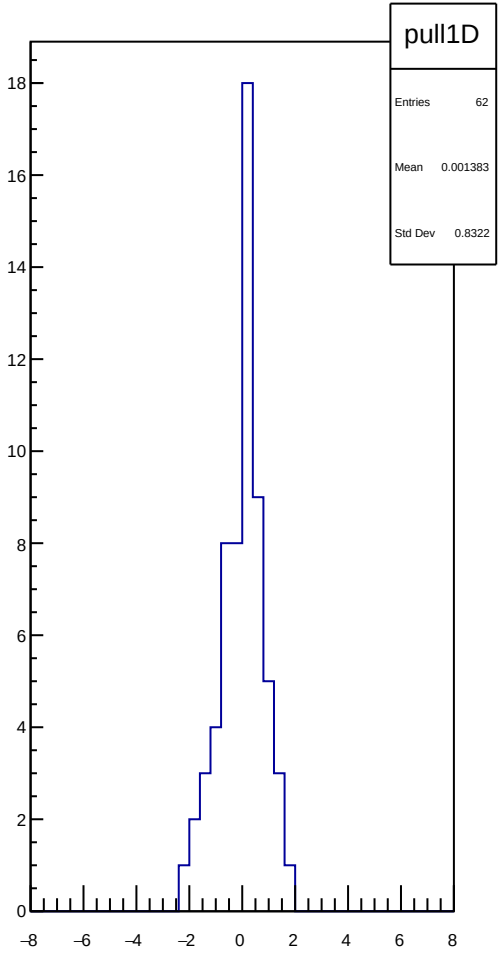

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 0.9999 / 61
p0 1.538 ± 1.103
pull
Entries 62
Mean −197.6
Std Dev 228.7
pull1D
Entries 62
Mean 0.007322
Std Dev 0.1268

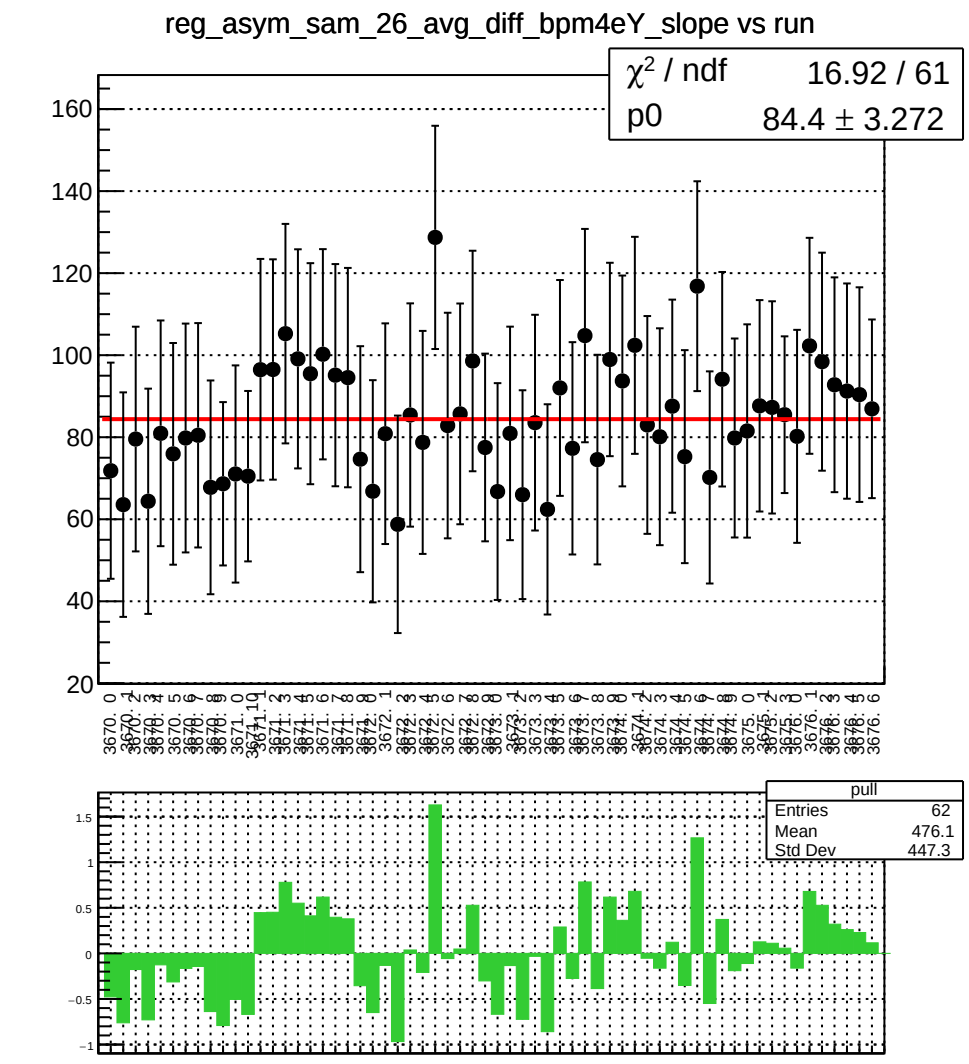

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.72 / 61
p0 16.48 ± 2.687
pull
Entries 62
Mean 295
Std Dev 249.7

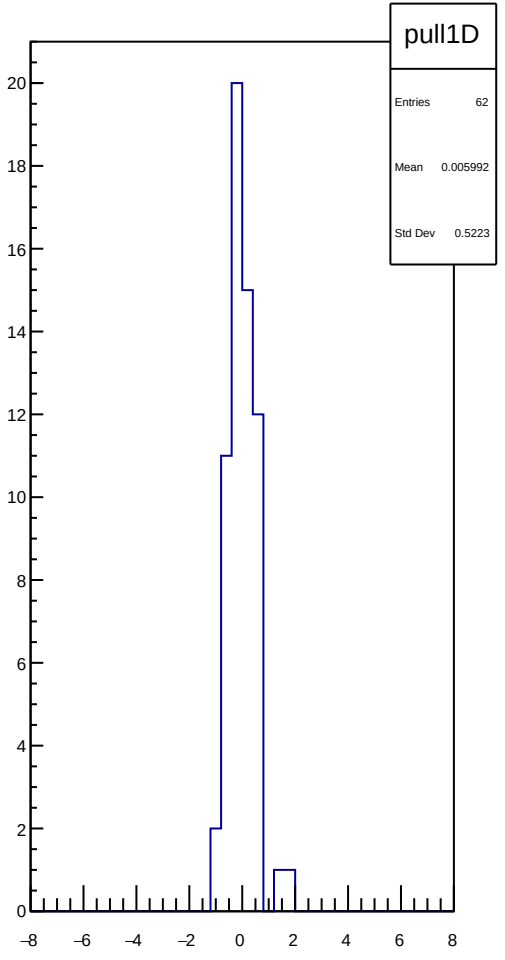

pull1D
Entries 62
Mean −0.001258
Std Dev 0.4872

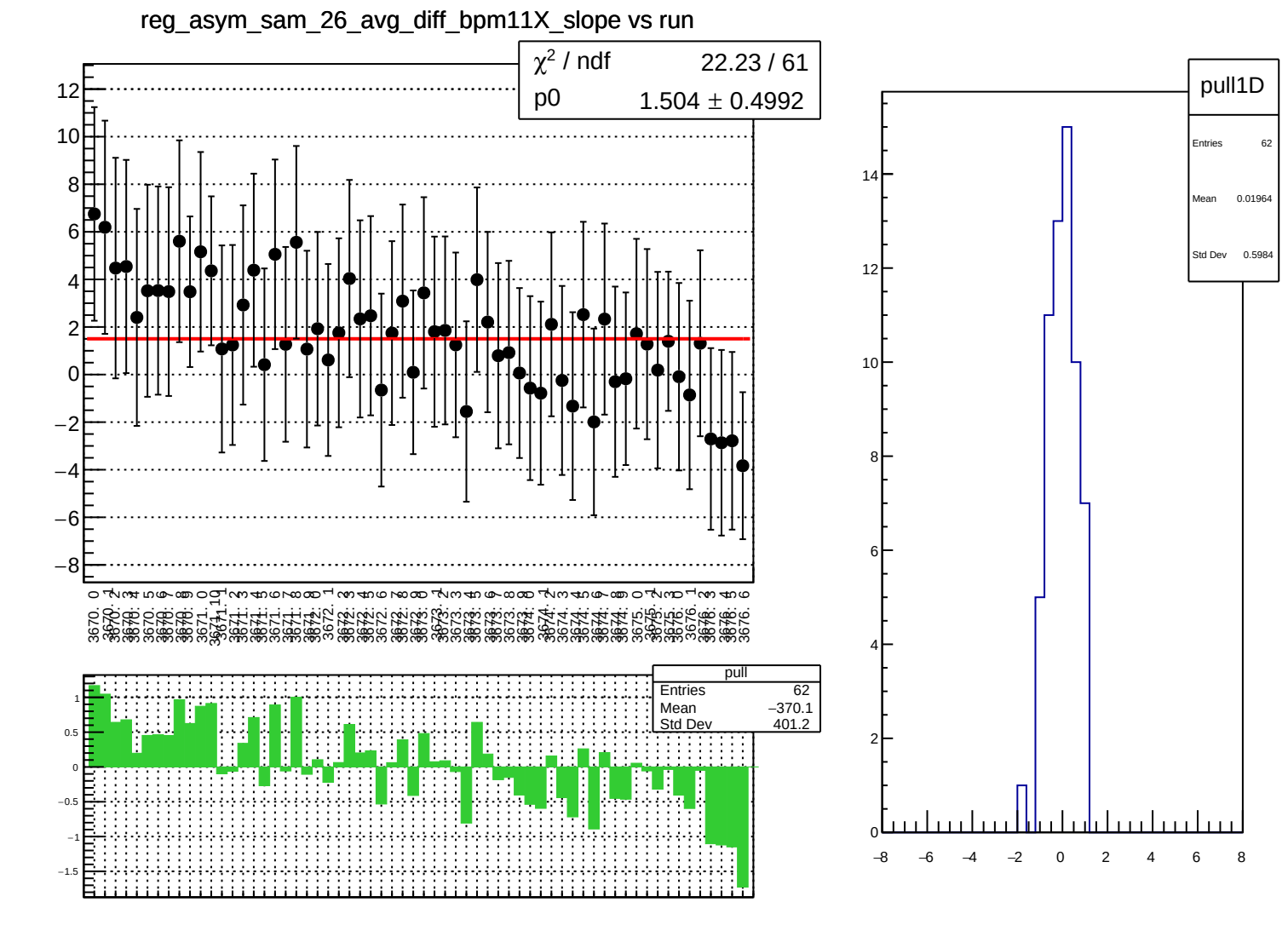

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.85 / 61
p0 −121.5 ± 2.104
pull
Entries 62
Mean 1116
Std Dev 1087
pull1D
Entries 62
Mean −0.002298
Std Dev 0.5213

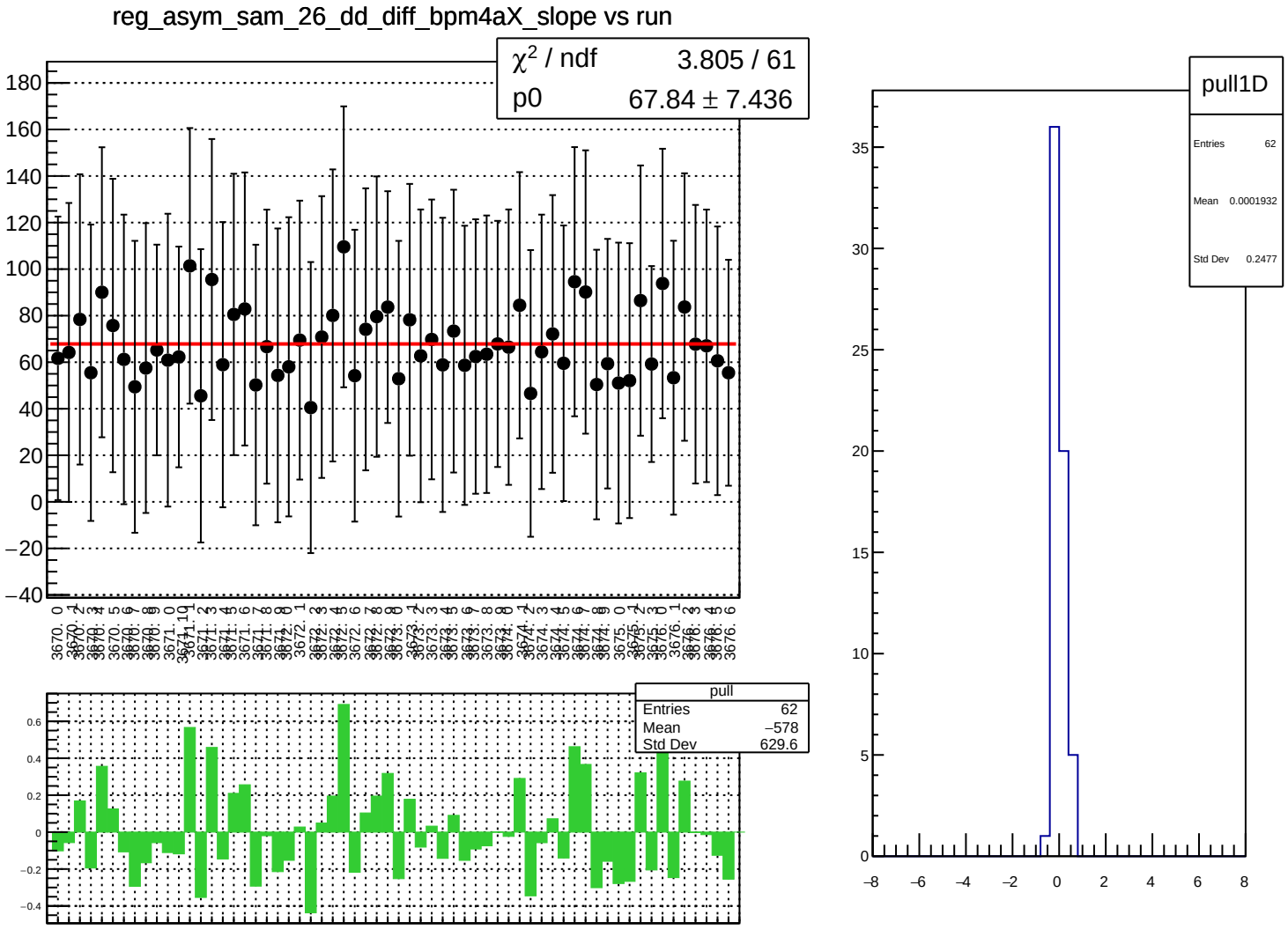

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.94 / 61
p0 −177.4 ± 0.5144
pull
Entries 62
Mean 3099
Std Dev 3076

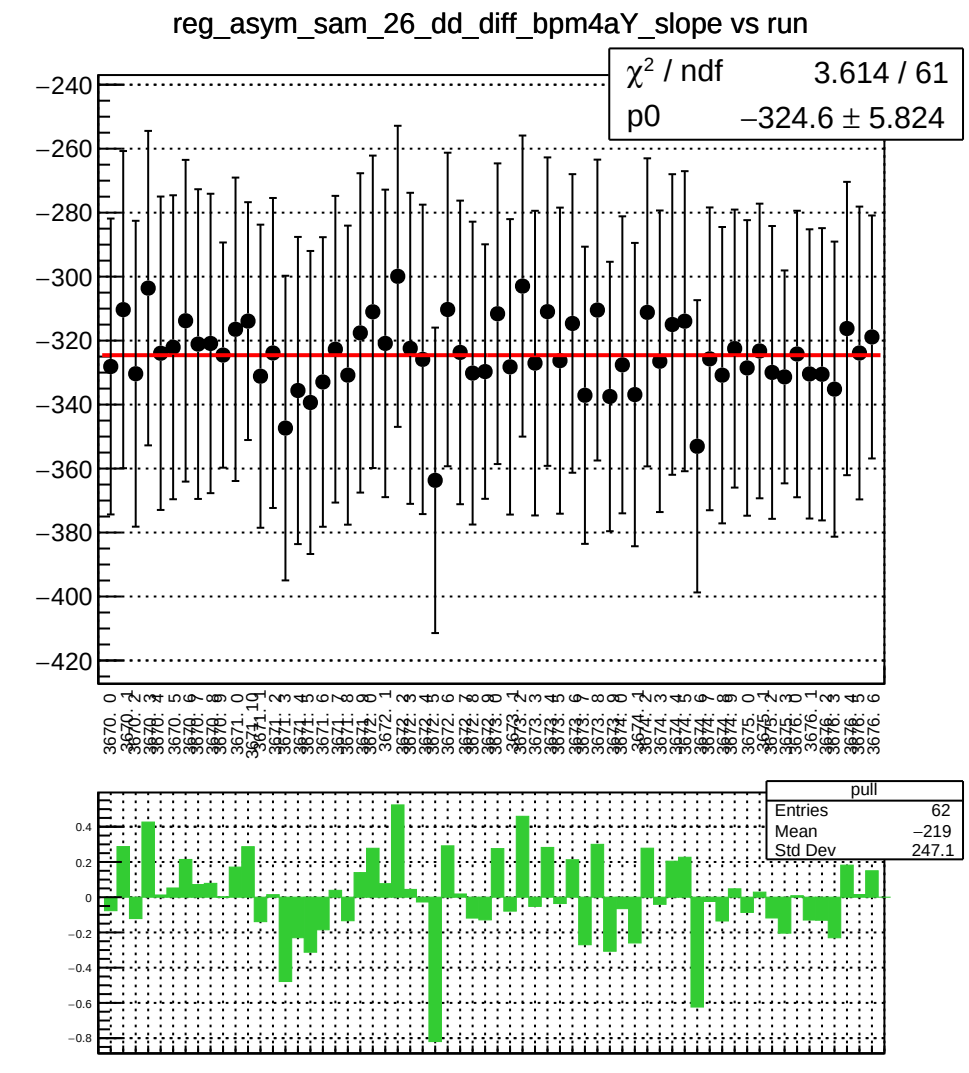

pull1D
Entries 62
Mean 0.001383
Std Dev 0.8322

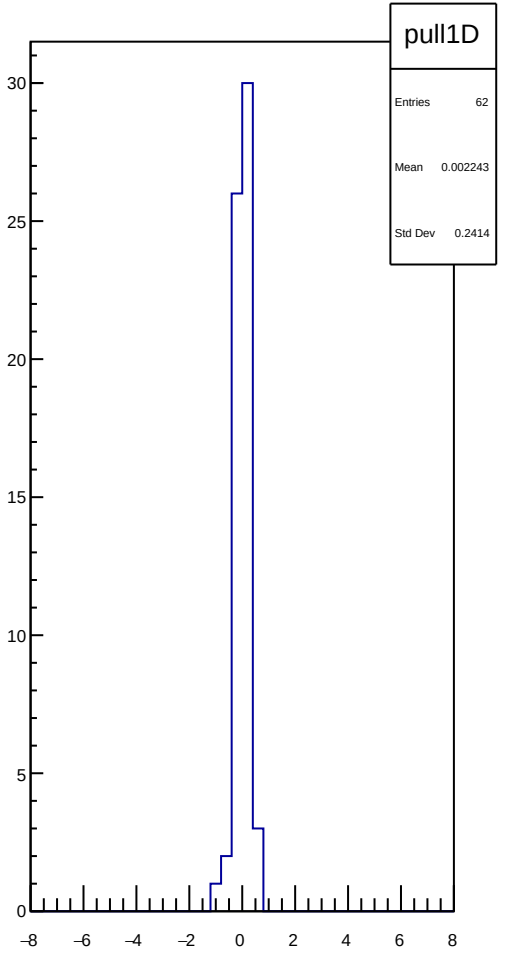

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.92 / 61
p0 84.4 ± 3.272
pull
Entries 62
Mean 476.1
Std Dev 447.3

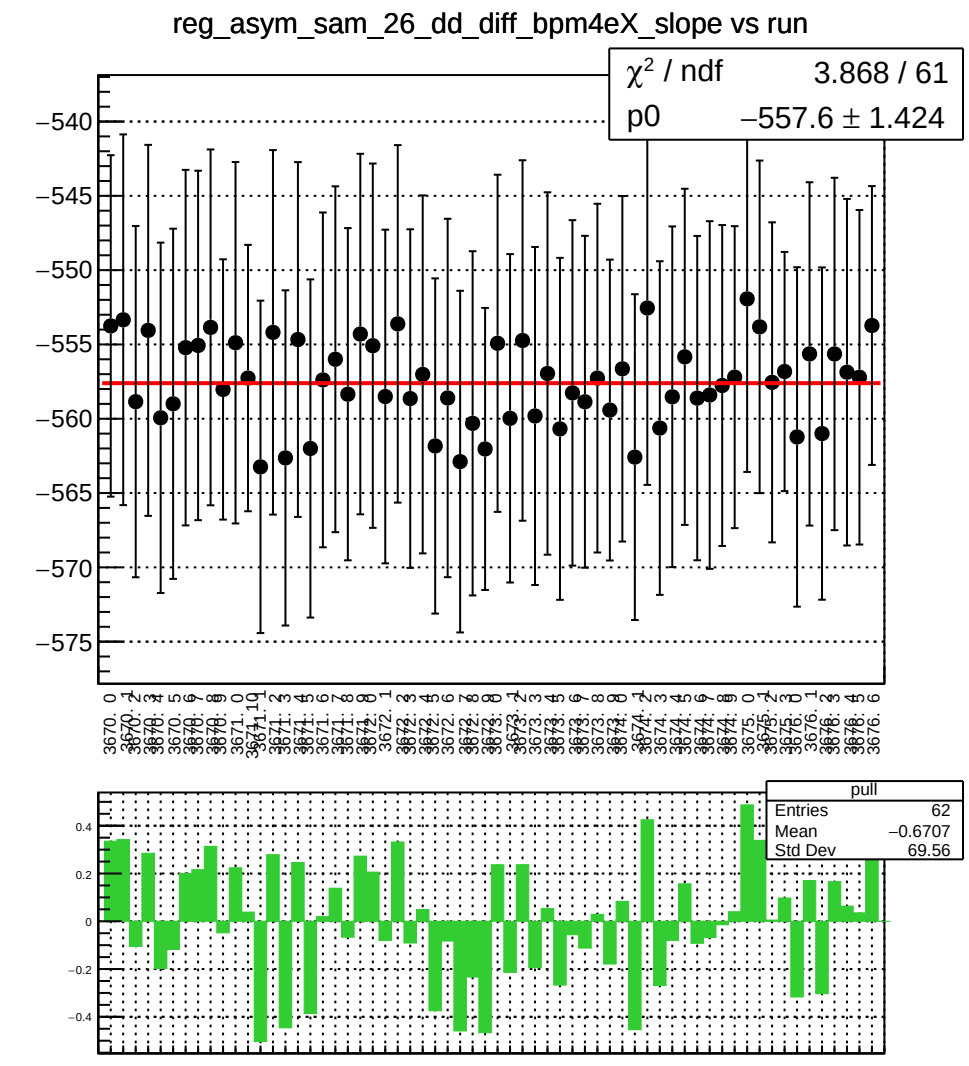

pull1D
Entries 62
Mean 0.005992
Std Dev 0.5223

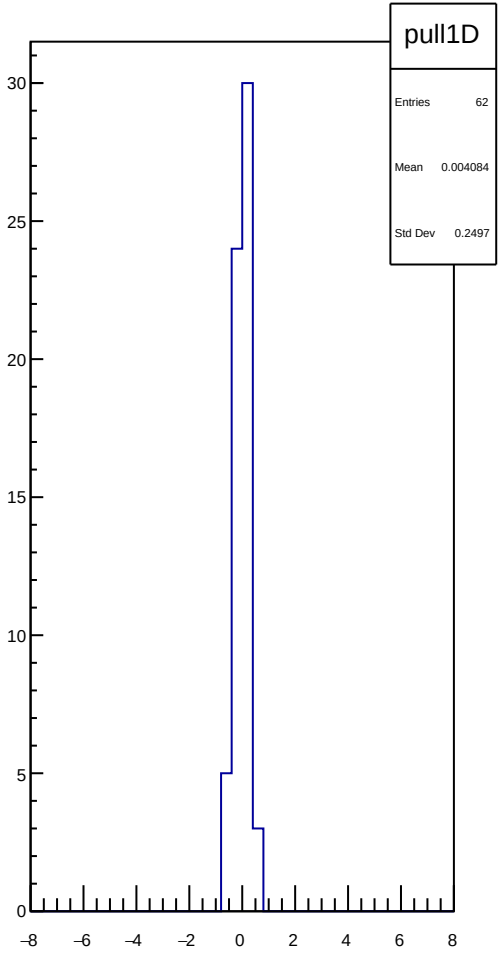

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 22.23 / 61
p0 1.504 ± 0.4992
pull
Entries 62
Mean −370.1
Std Dev 401.2
pull1D
Entries 62
Mean 0.01964
Std Dev 0.5984

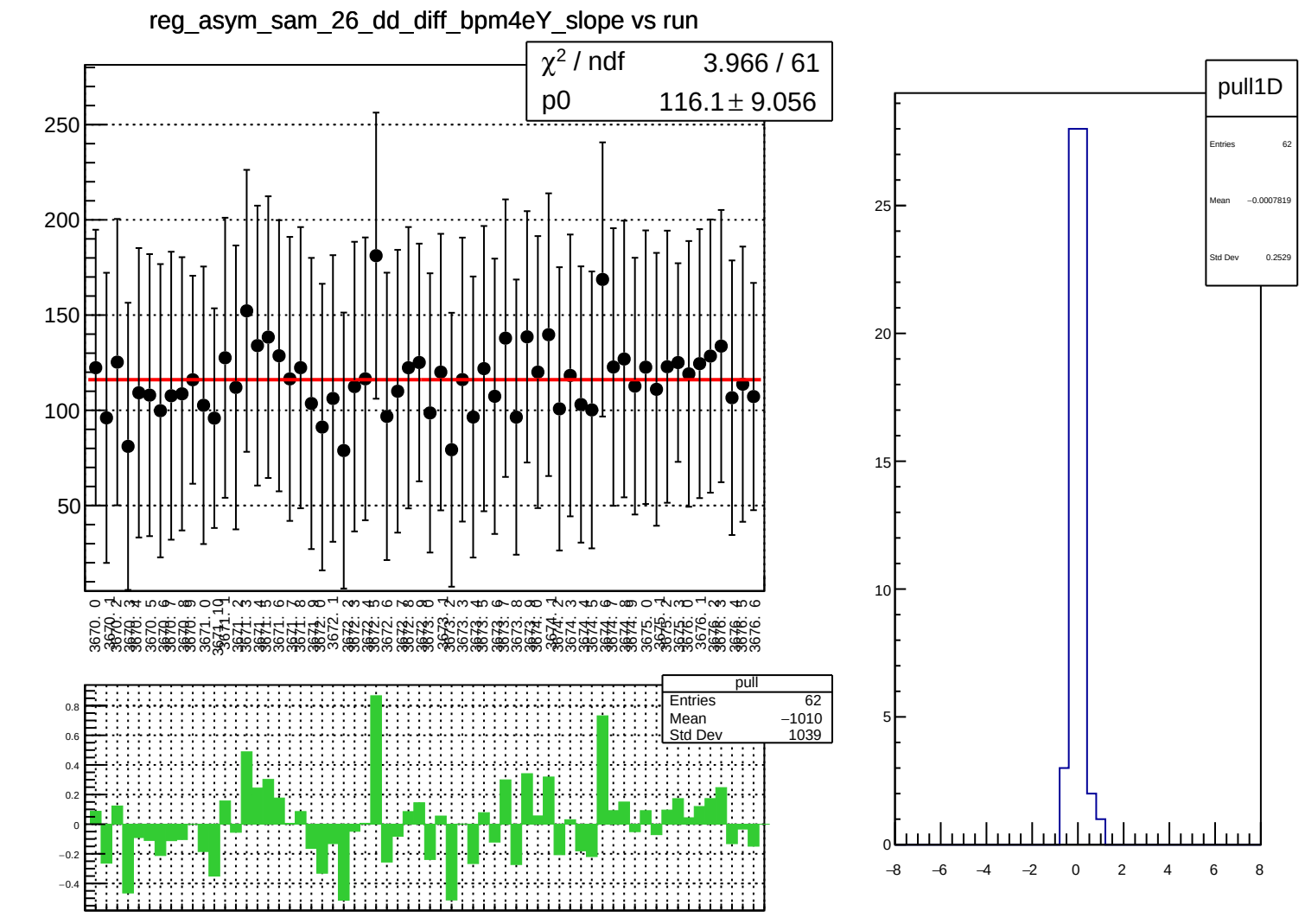

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.805 / 61
p0 67.84 ± 7.436
pull
Entries 62
Mean −578
Std Dev 629.6
pull1D
Entries 62
Mean 0.0001932
Std Dev 0.2477

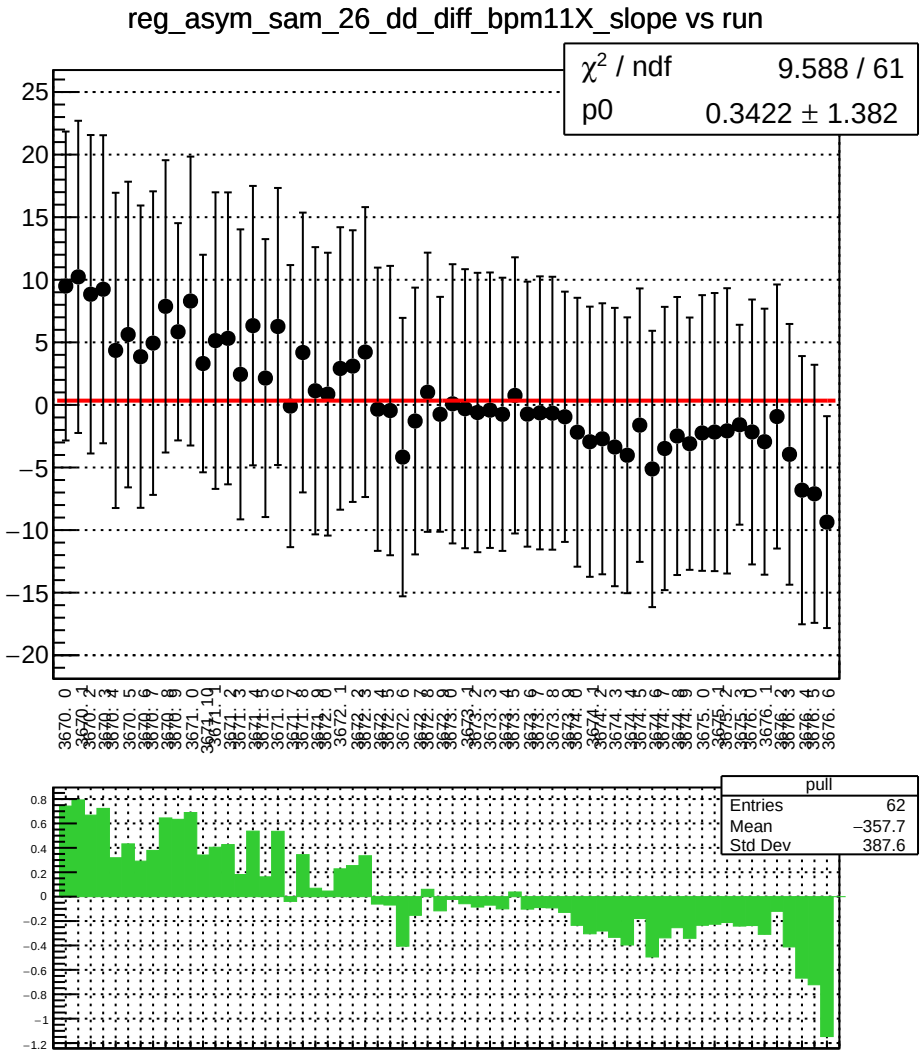

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.614 / 61
p0 −324.6 ± 5.824
pull
Entries 62
Mean −219
Std Dev 247.1

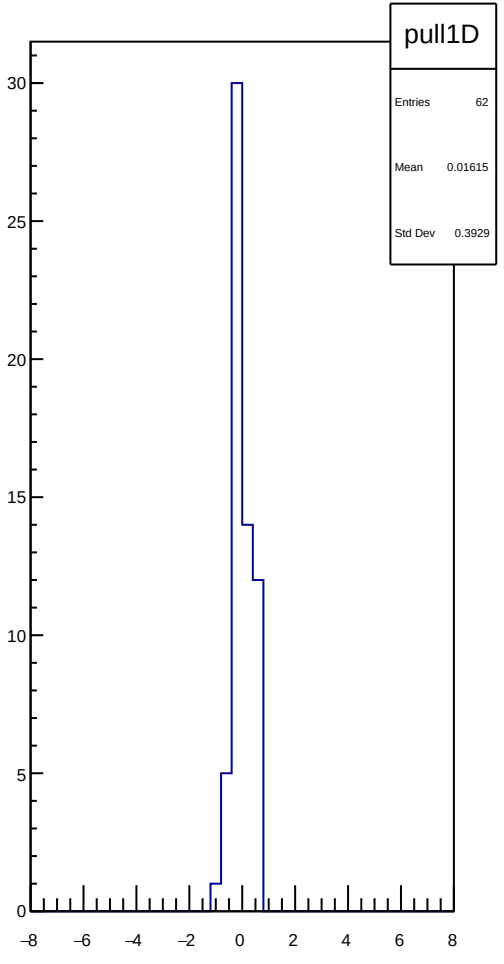

pull1D
Entries 62
Mean 0.002243
Std Dev 0.2414

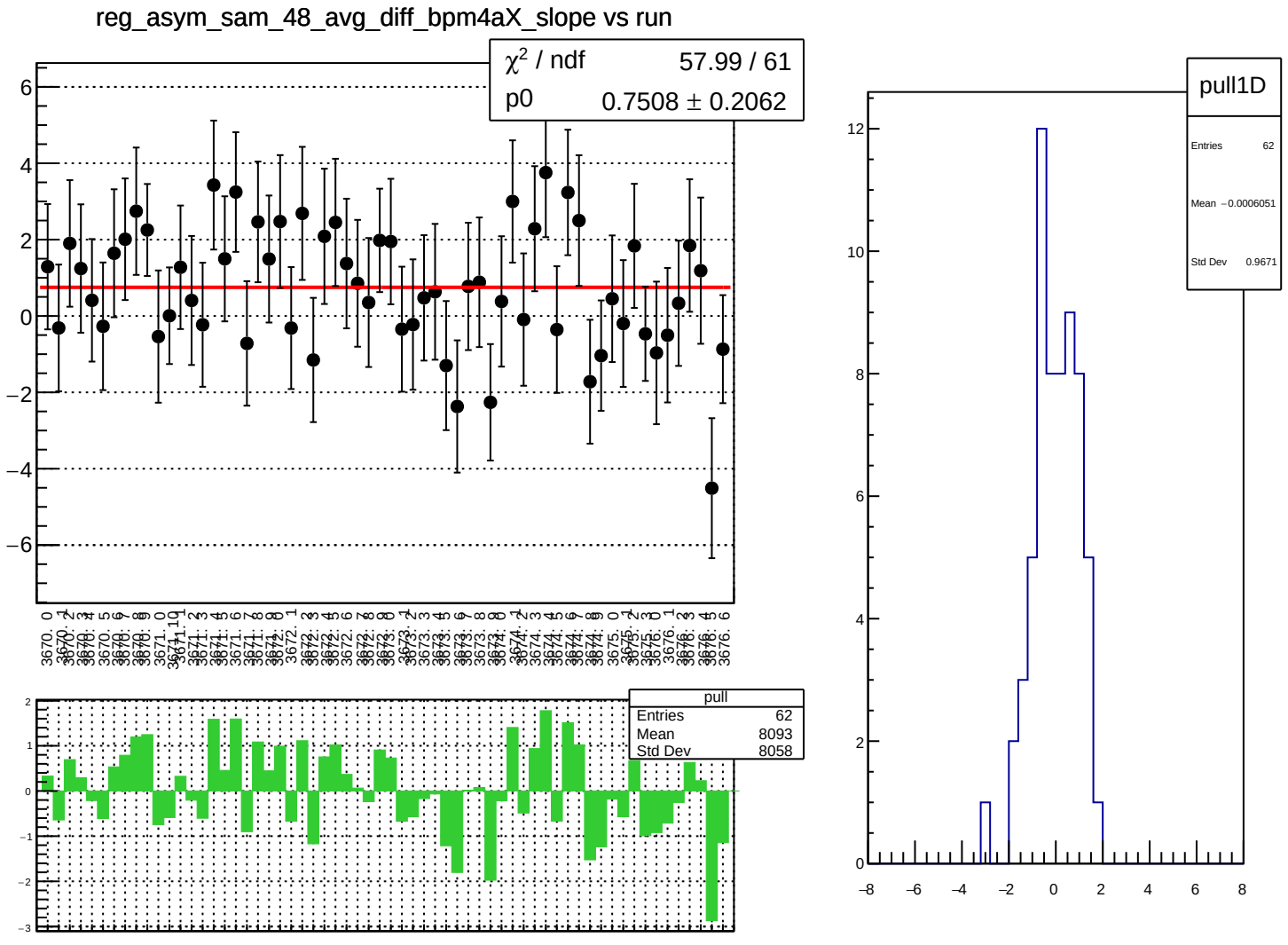

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.868 / 61
p0 −557.6 ± 1.424
pull
Entries 62
Mean −0.6707
Std Dev 69.56

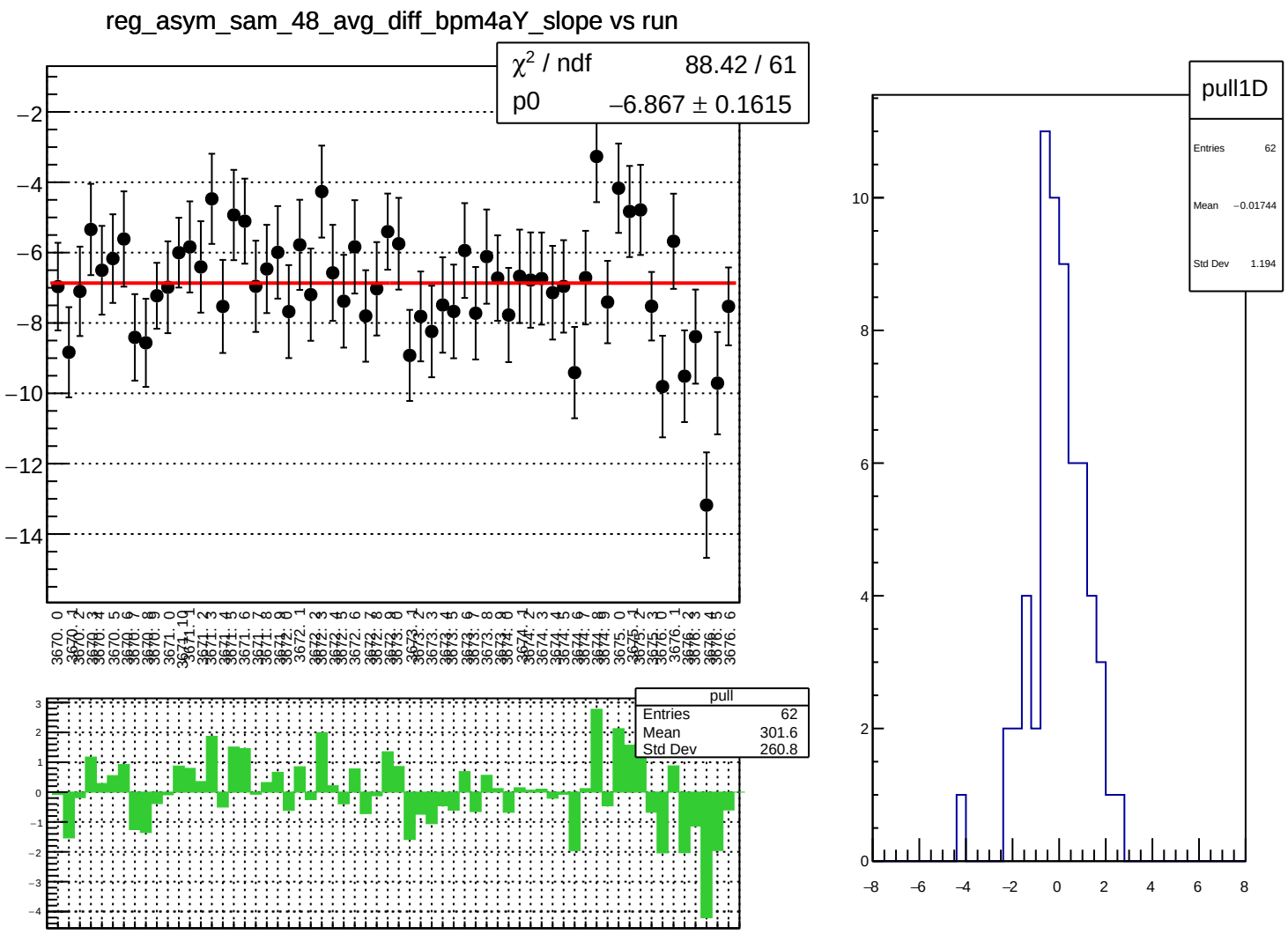

pull1D
Entries 62
Mean 0.004084
Std Dev 0.2497

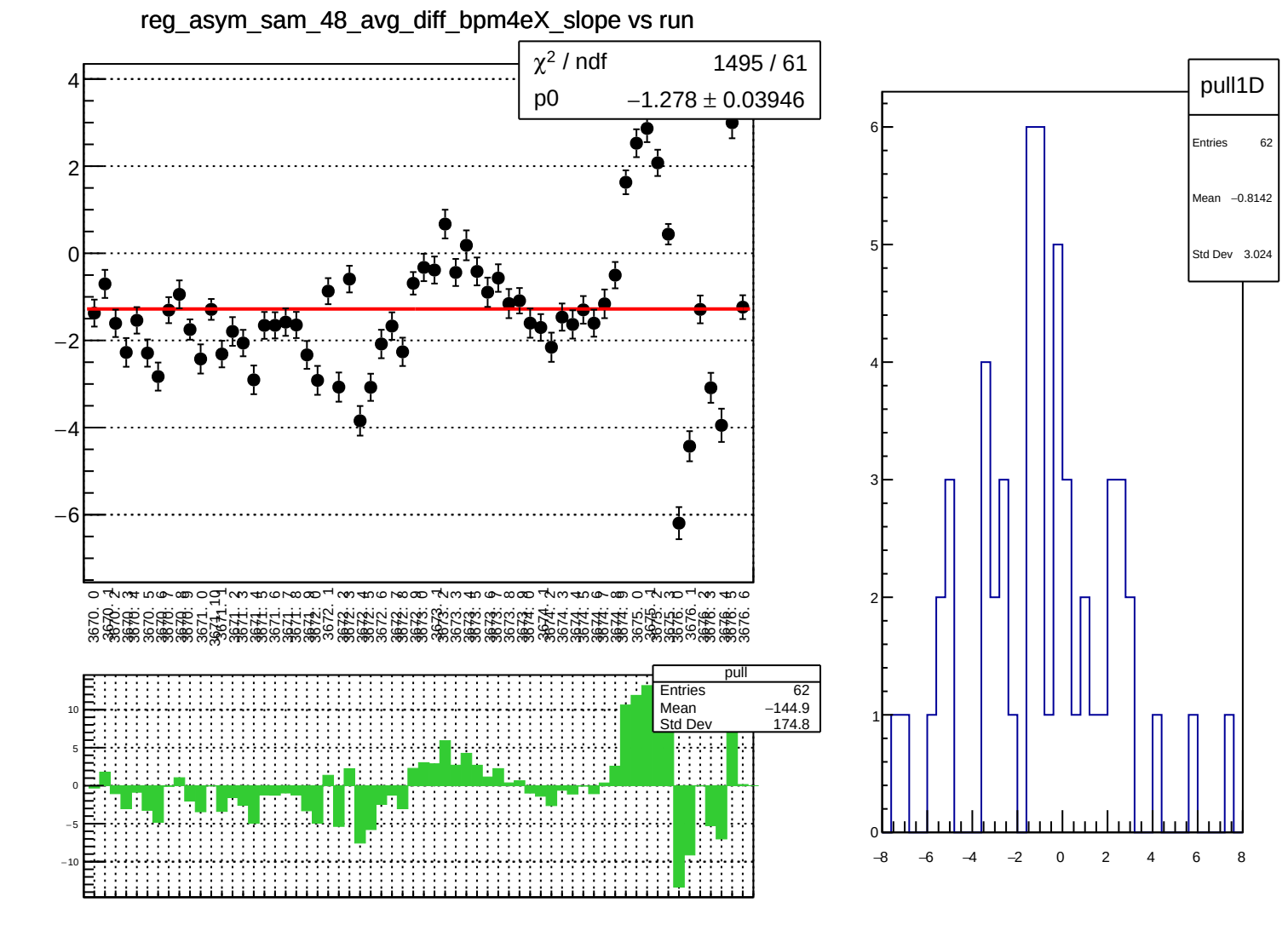

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.966 / 61
p0 116.1 ± 9.056
pull
Entries 62
Mean −1010
Std Dev 1039
pull1D
Entries 62
Mean −0.0007819
Std Dev 0.2529

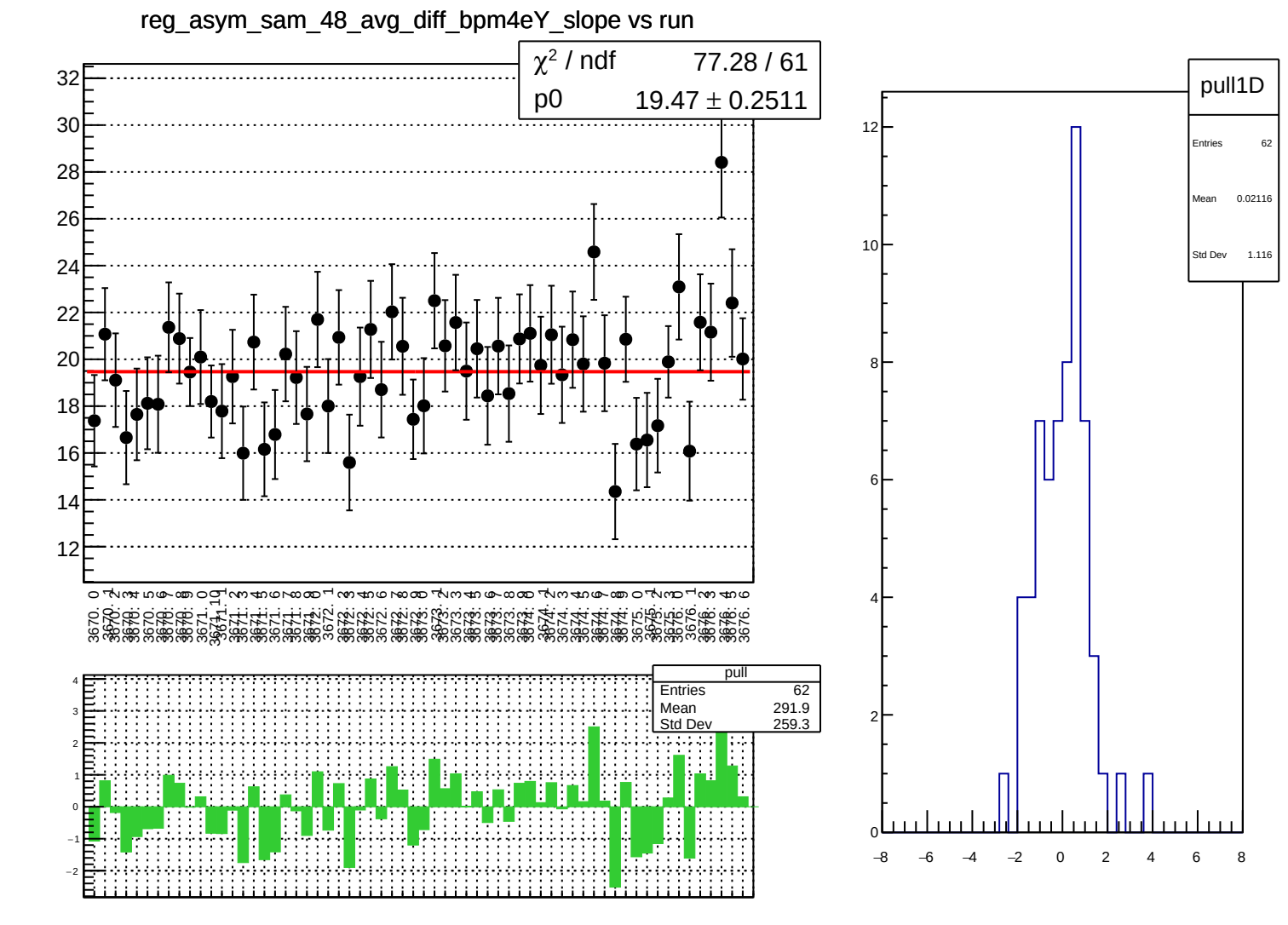

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 9.588 / 61
p0 0.3422 ± 1.382
pull
Entries 62
Mean −357.7
Std Dev 387.6

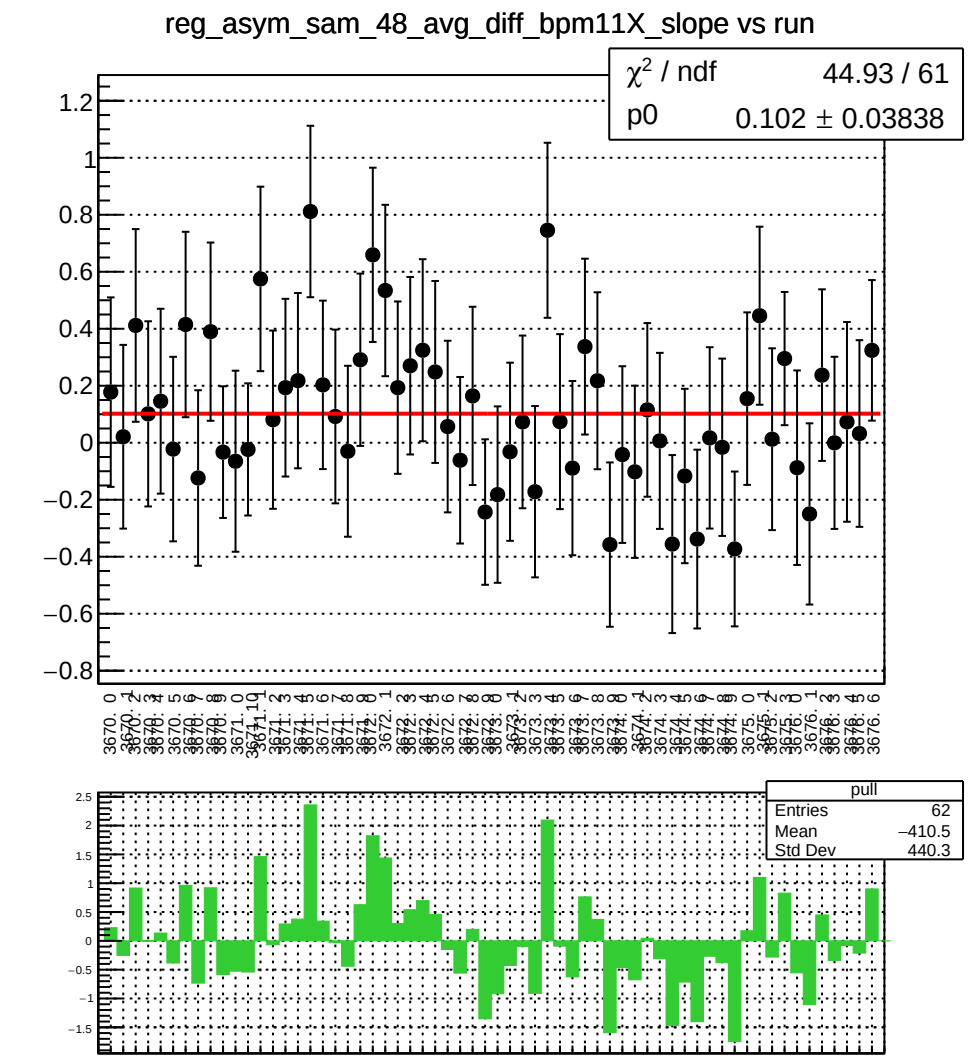

pull1D
Entries 62
Mean 0.01615
Std Dev 0.3929

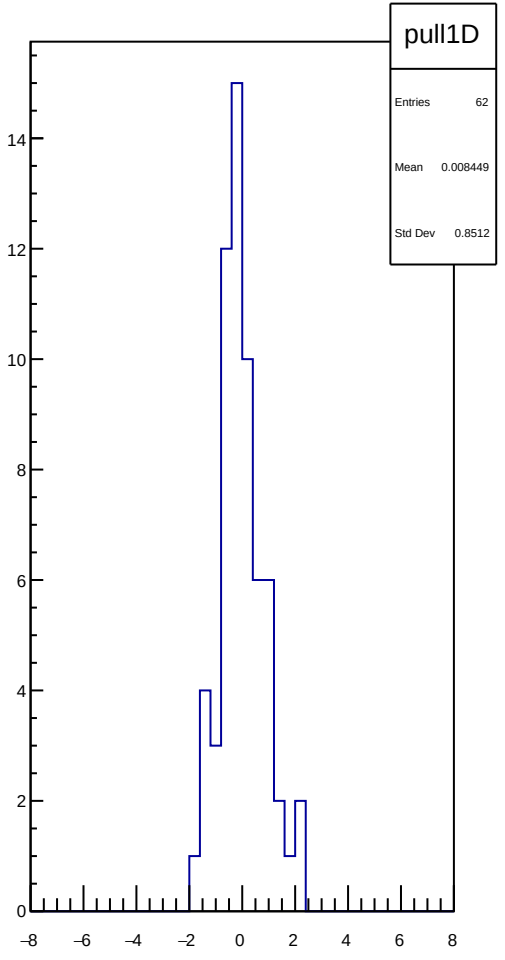

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 57.99 / 61
p0 0.7508 ± 0.2062
pull
Entries 62
Mean 8093
Std Dev 8058
pull1D
Entries 62
Mean −0.0006051
Std Dev 0.9671

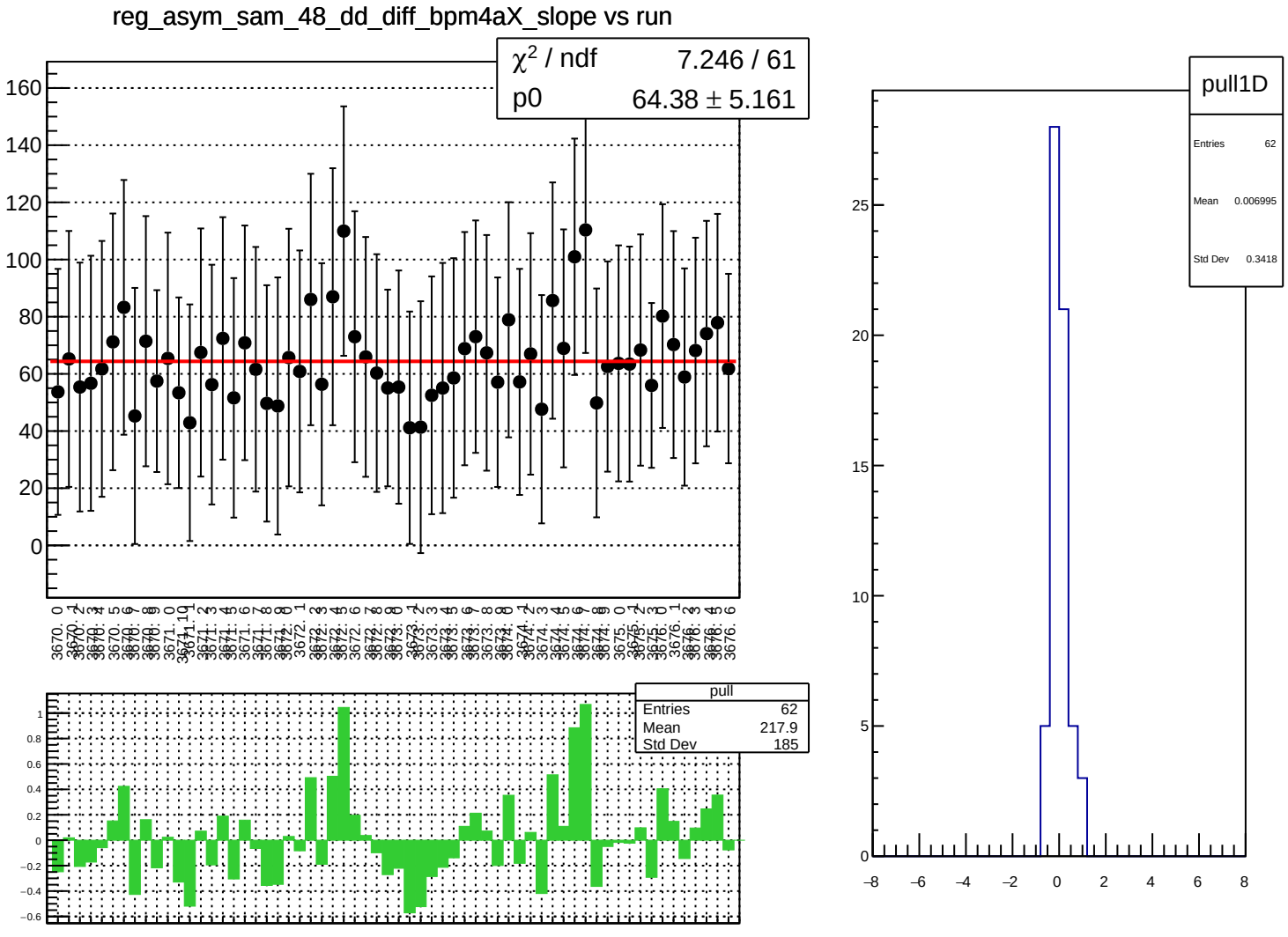

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.42 / 61
p0 −6.867 ± 0.1615
pull
Entries 62
Mean 301.6
Std Dev 260.8
pull1D
Entries 62
Mean −0.01744
Std Dev 1.194

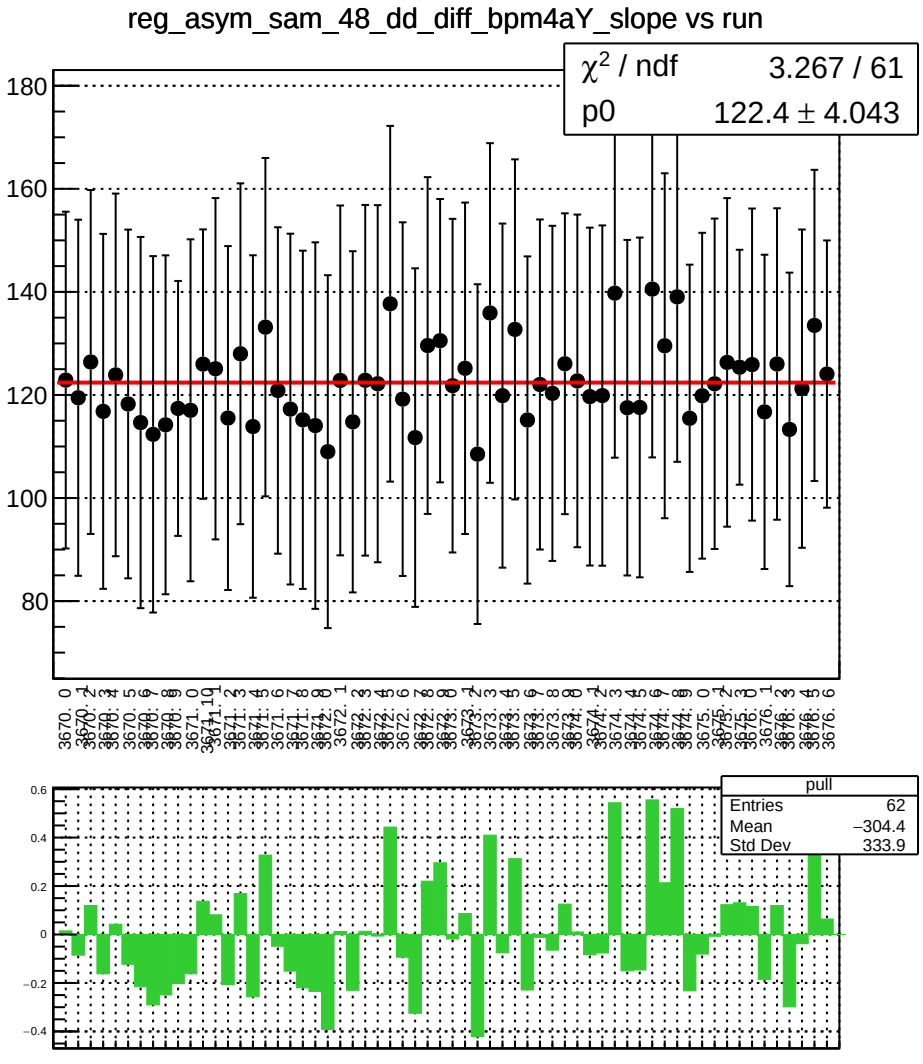

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1495 / 61
p0 −1.278 ± 0.03946
pull
Entries 62
Mean −144.9
Std Dev 174.8
pull1D
Entries 62
Mean −0.8142
Std Dev 3.024

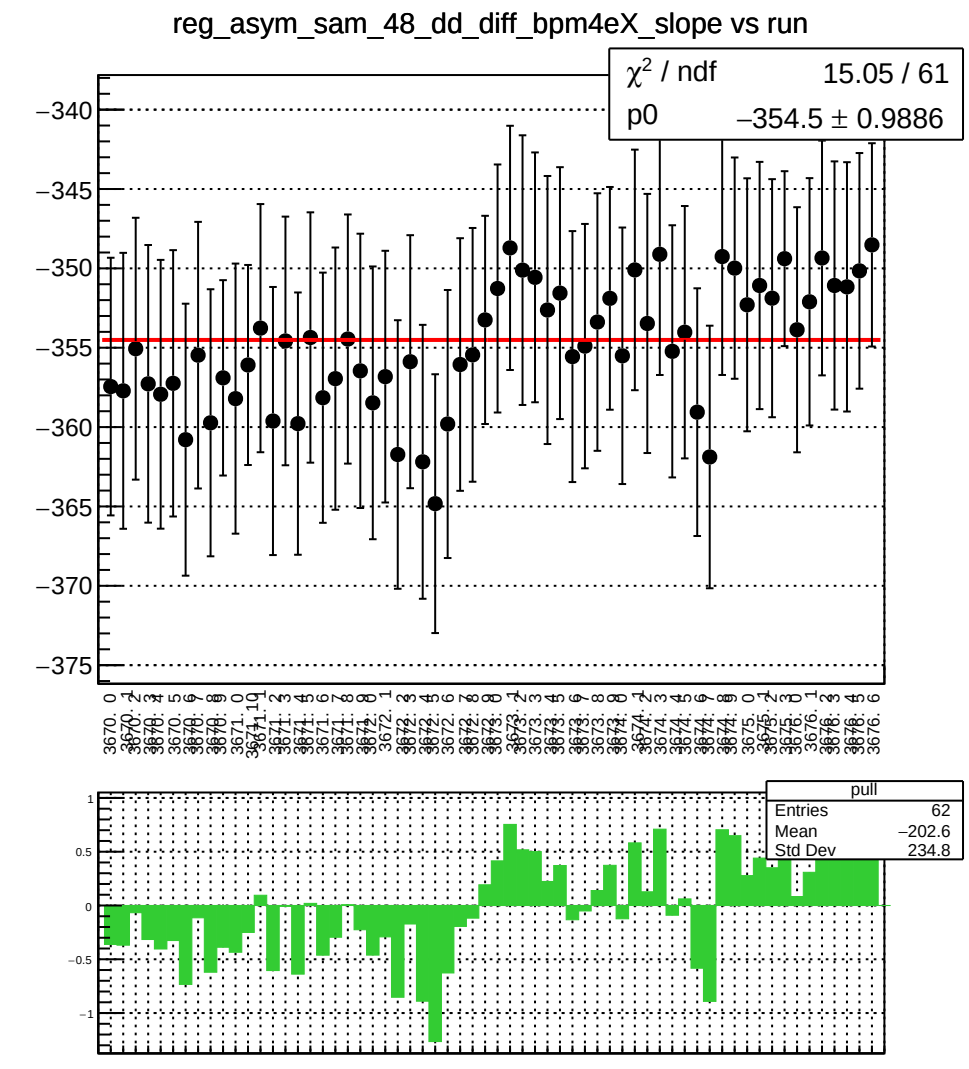

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.28 / 61
p0 19.47 ± 0.2511
pull
Entries 62
Mean 291.9
Std Dev 259.3
pull1D
Entries 62
Mean 0.02116
Std Dev 1.116

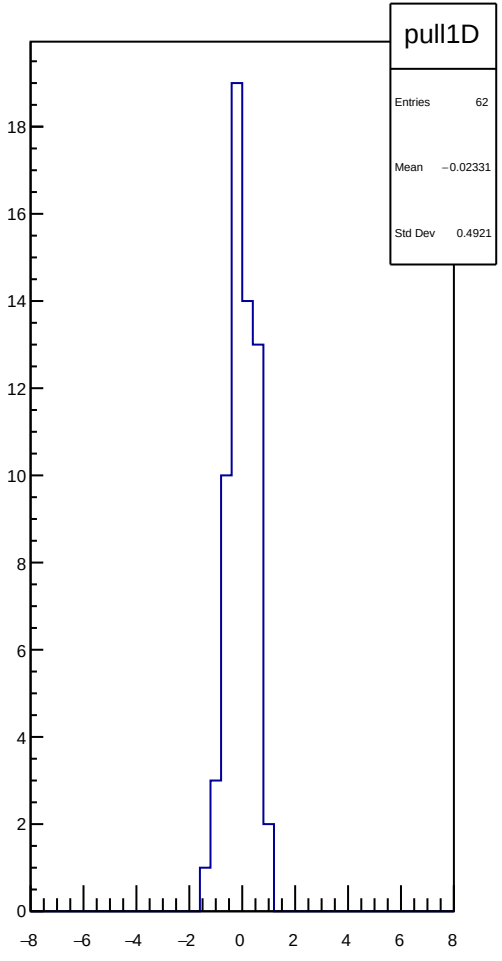

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 44.93 / 61
p0 0.102 ± 0.03838
pull
Entries 62
Mean −410.5
Std Dev 440.3

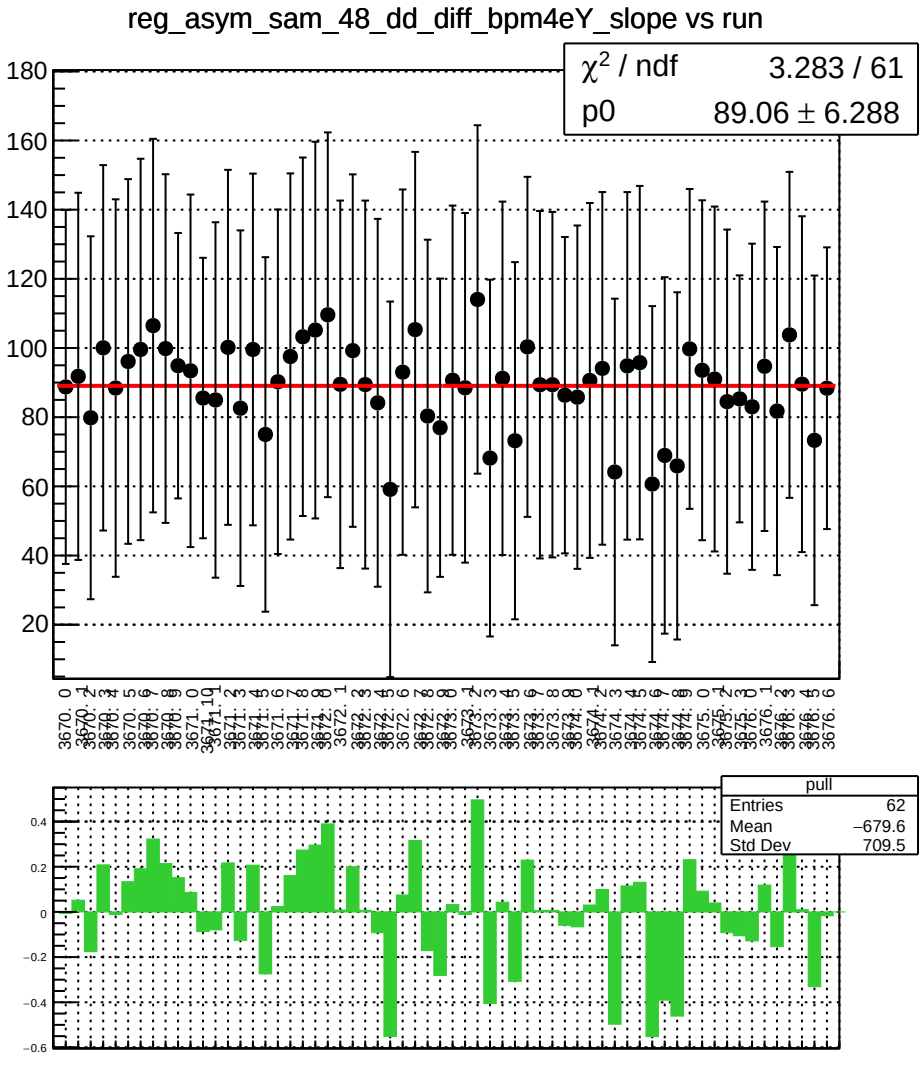

pull1D
Entries 62
Mean 0.008449
Std Dev 0.8512

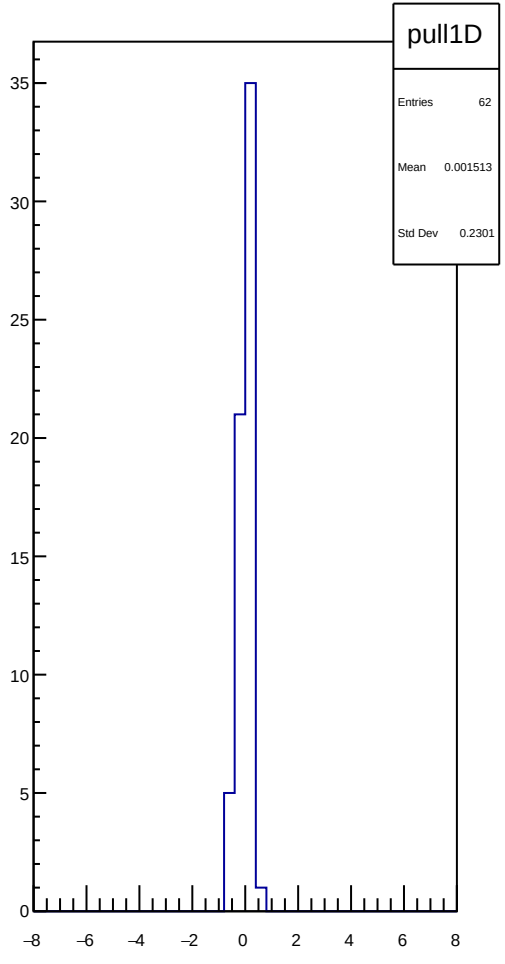

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.246 / 61
p0 64.38 ± 5.161
pull
Entries 62
Mean 217.9
Std Dev 185
pull1D
Entries 62
Mean 0.006995
Std Dev 0.3418

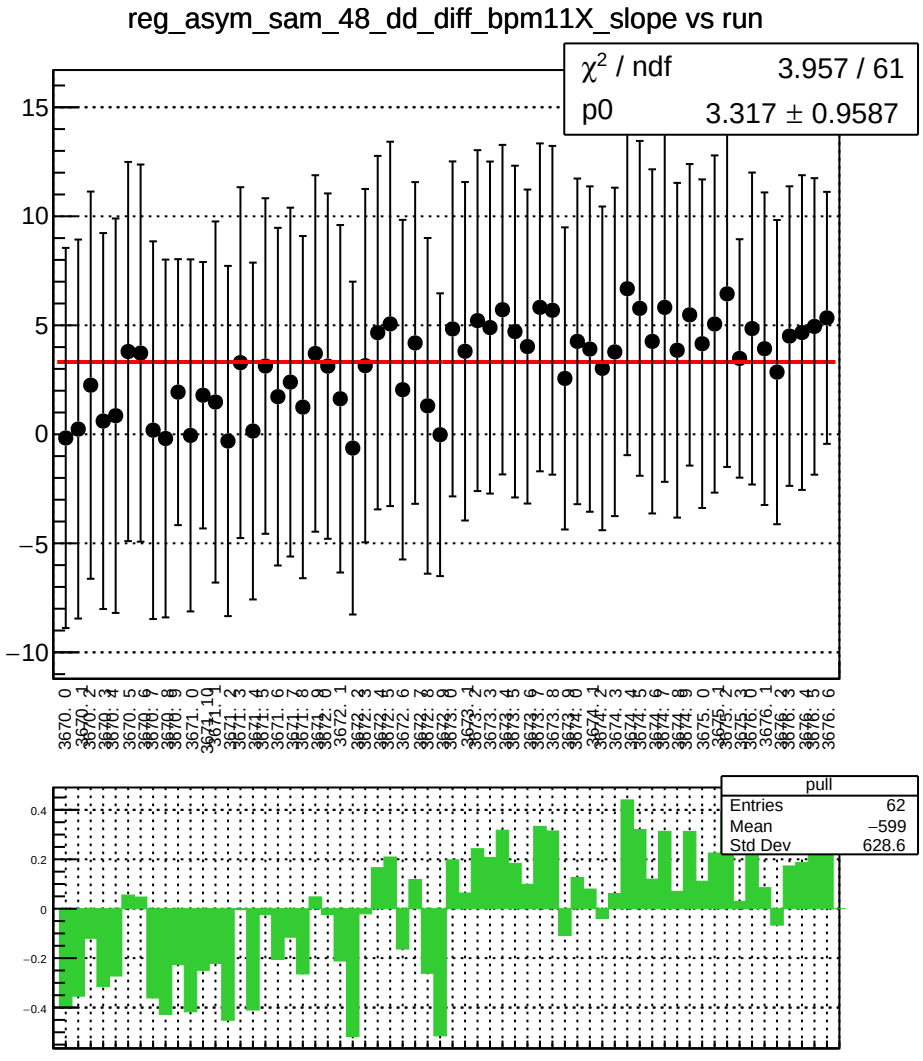

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.267 / 61
p0 122.4 ± 4.043
pull
Entries 62
Mean −304.4
Std Dev 333.9
pull1D
Entries 62
Mean −0.003205
Std Dev 0.2295

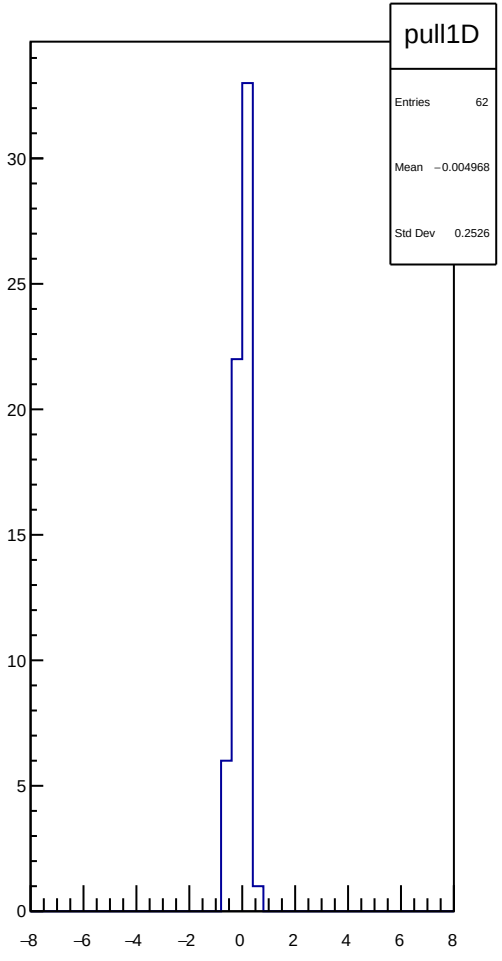

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.05 / 61
p0 −354.5 ± 0.9886
pull
Entries 62
Mean −202.6
Std Dev 234.8

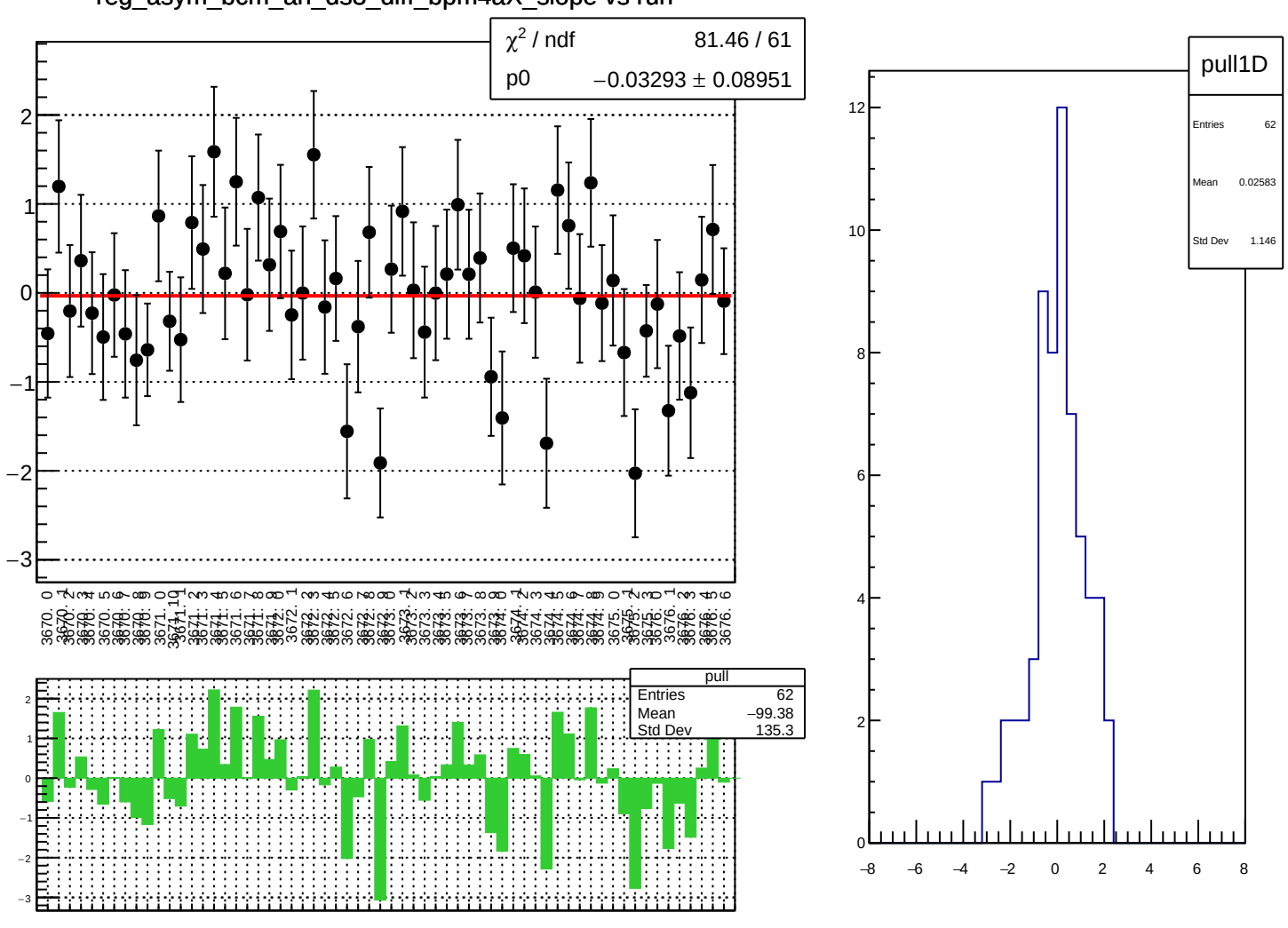

pull1D
Entries 62
Mean −0.02331
Std Dev 0.4921

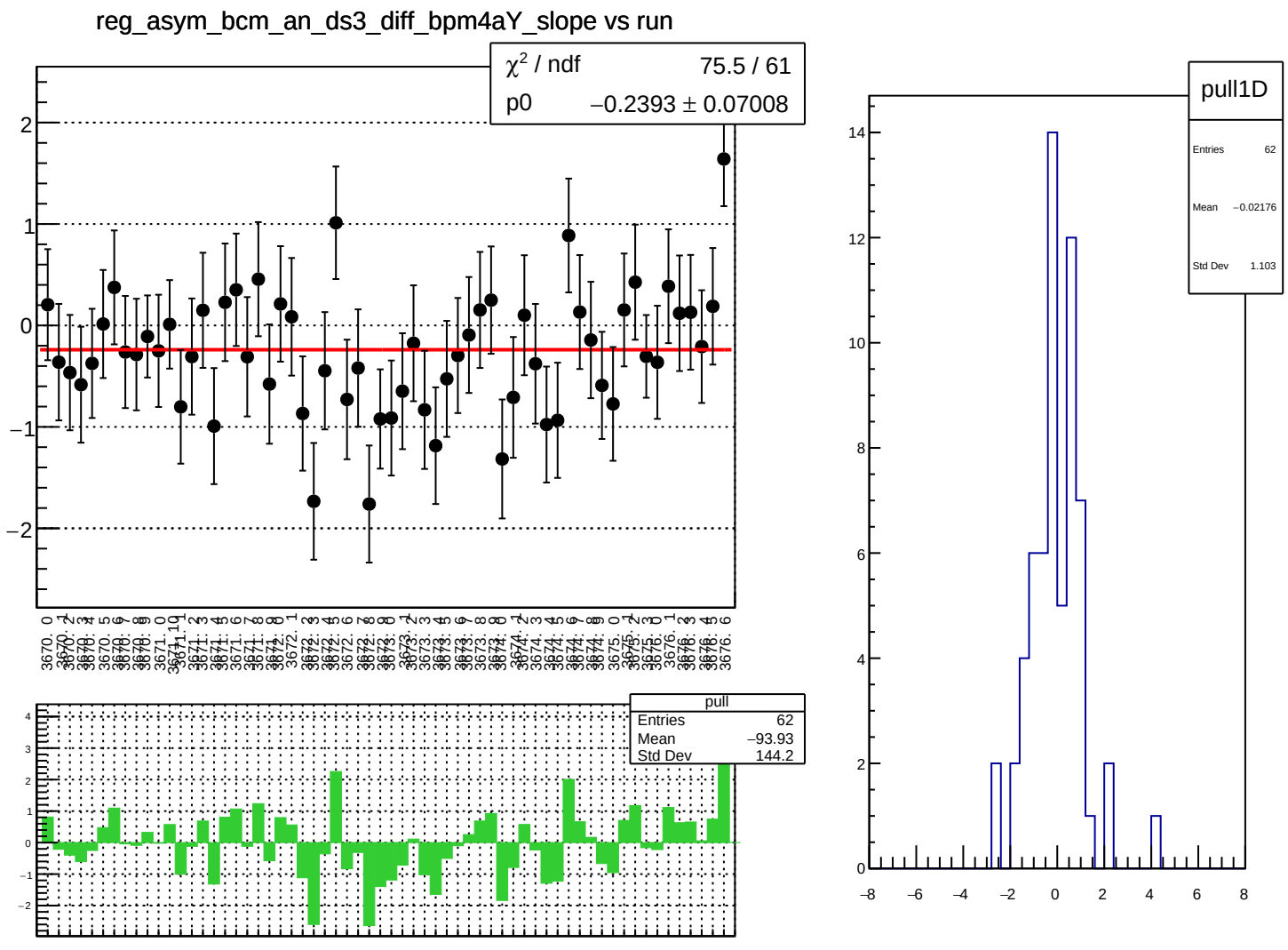

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.283 / 61
p0 89.06 ± 6.288
pull
Entries 62
Mean −679.6
Std Dev 709.5

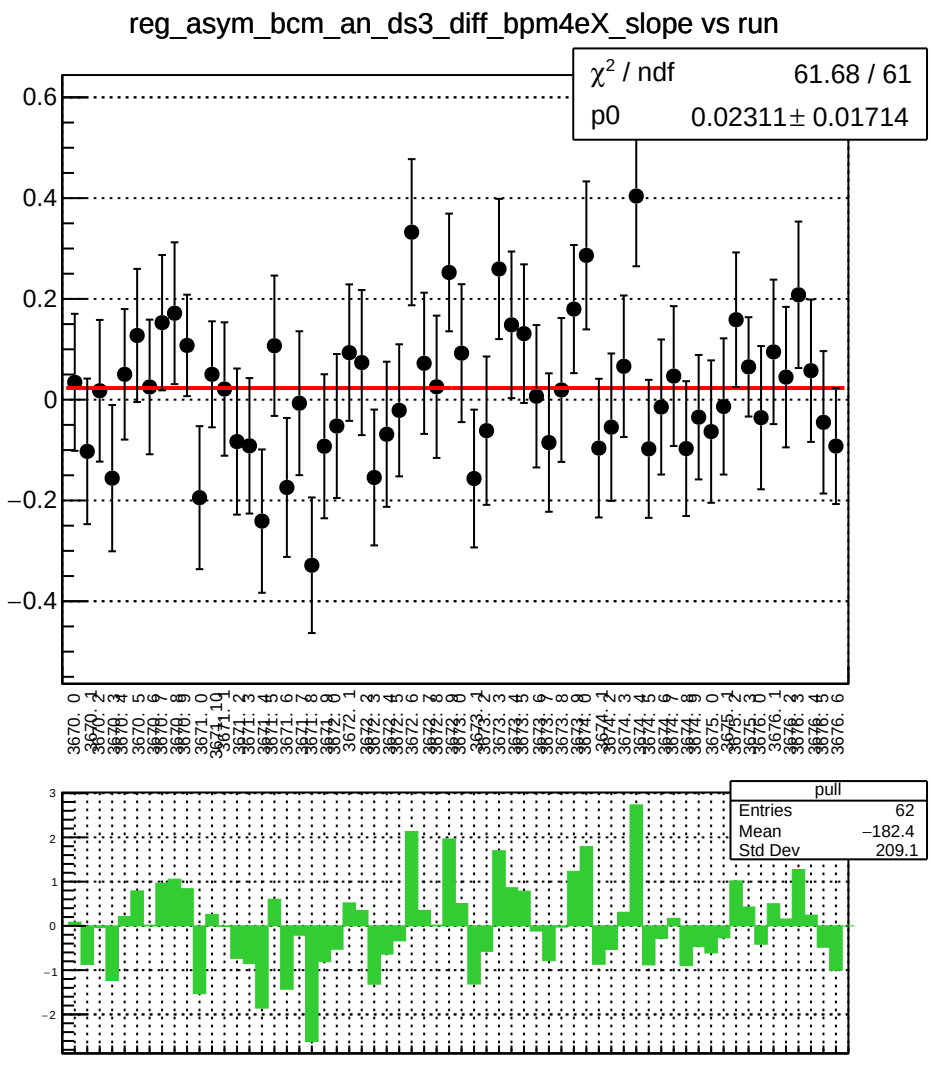

pull1D
Entries 62
Mean 0.001513
Std Dev 0.2301

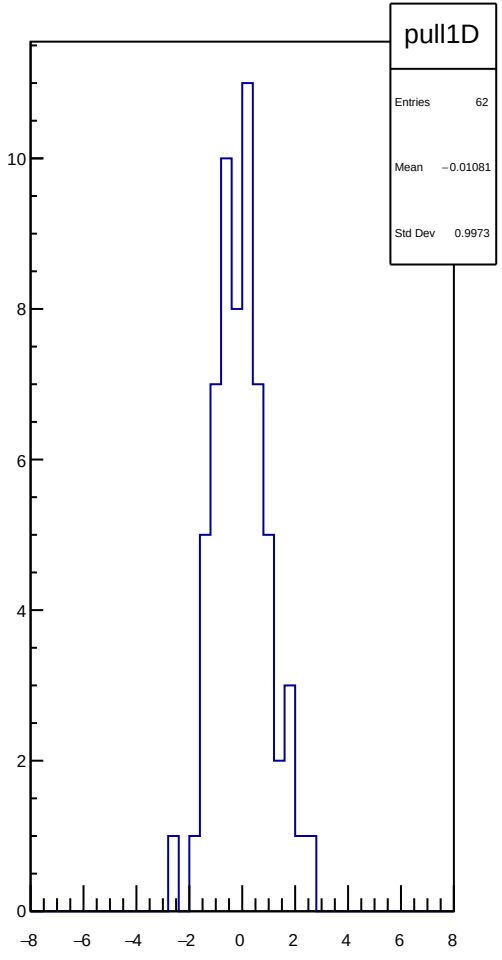

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 3.957 / 61
p0 3.317 ± 0.9587
pull
Entries 62
Mean −599
Std Dev 628.6

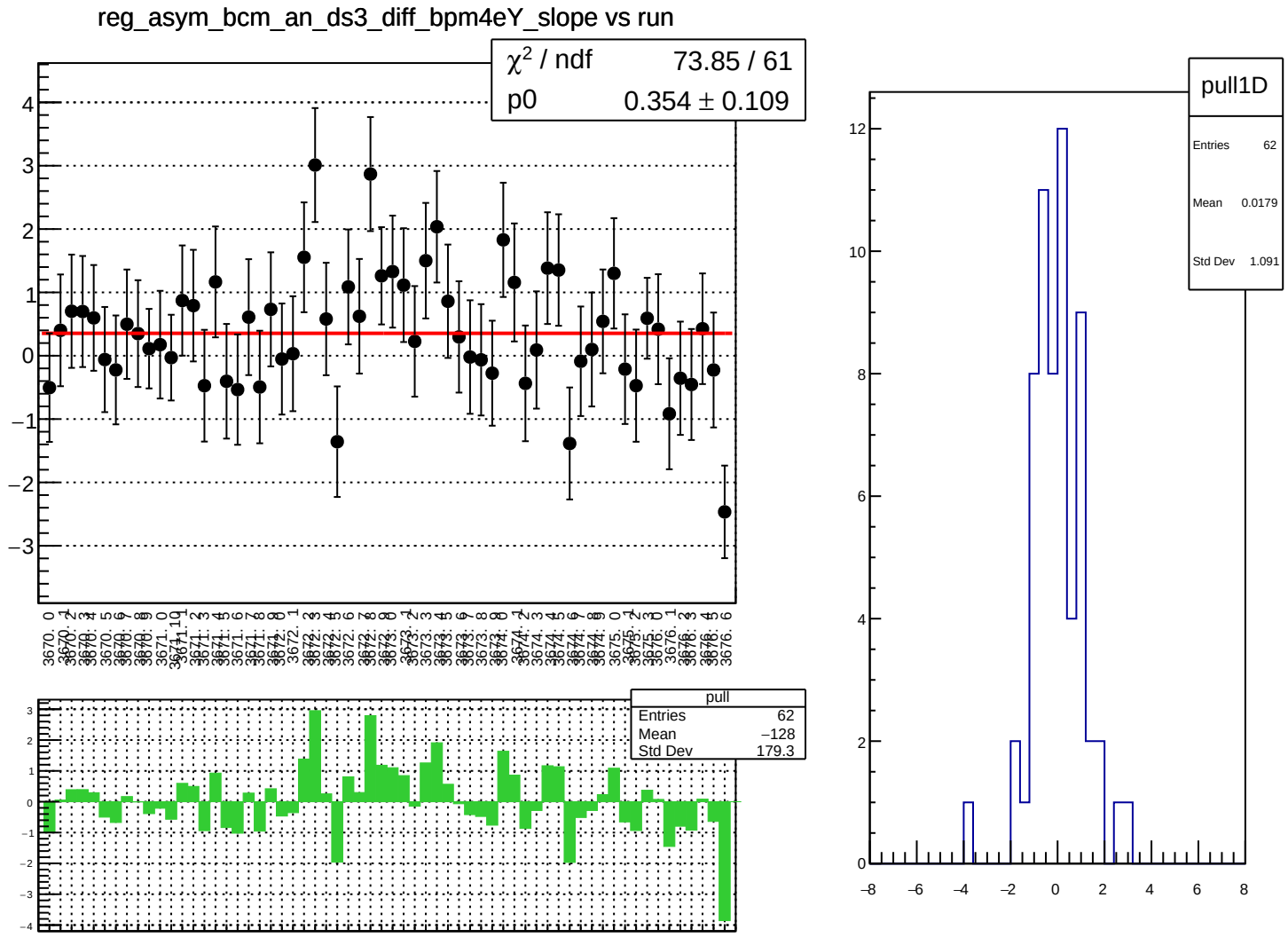

pull1D
Entries 62
Mean −0.004968
Std Dev 0.2526

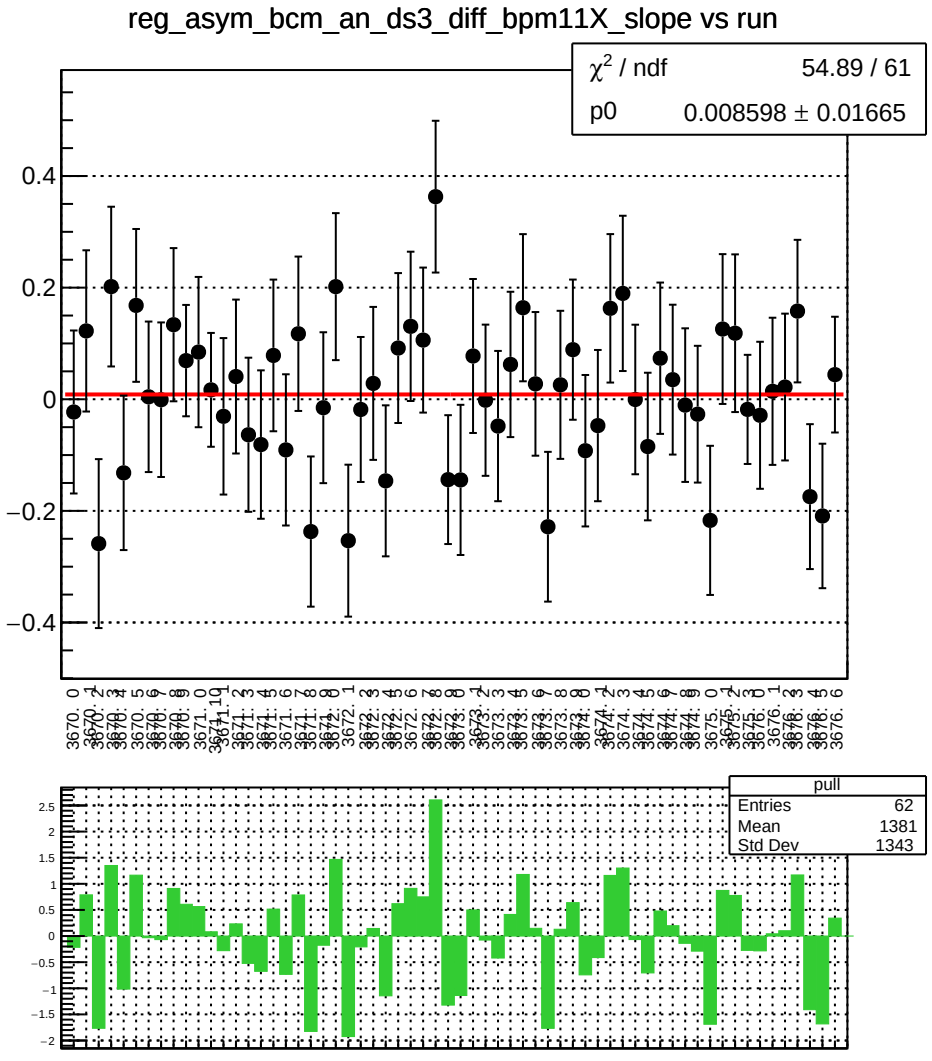

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 81.46 / 61
p0 −0.03293 ± 0.08951
pull
Entries 62
Mean −99.38
Std Dev 135.3
pull1D
Entries 62
Mean 0.02583
Std Dev 1.146

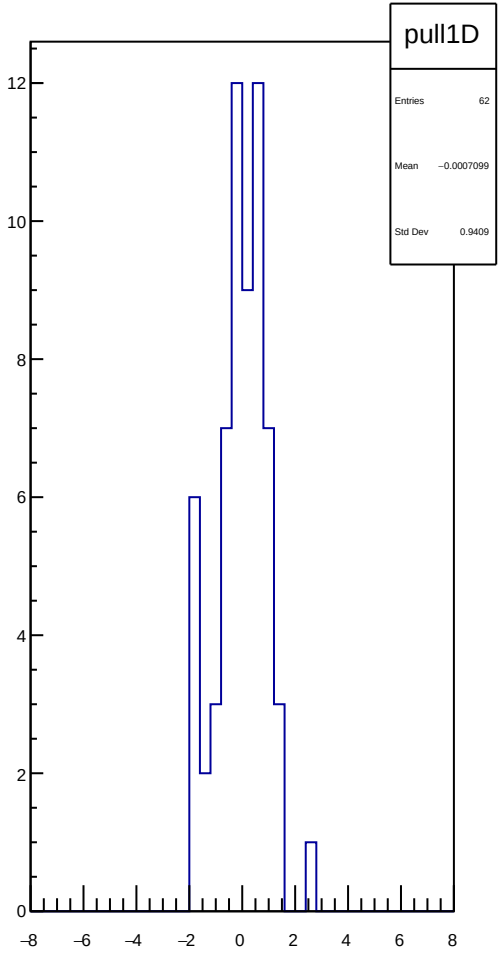

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 75.5 / 61
p0 −0.2393 ± 0.07008
pull
Entries 62
Mean −93.93
Std Dev 144.2
pull1D
Entries 62
Mean −0.02176
Std Dev 1.103

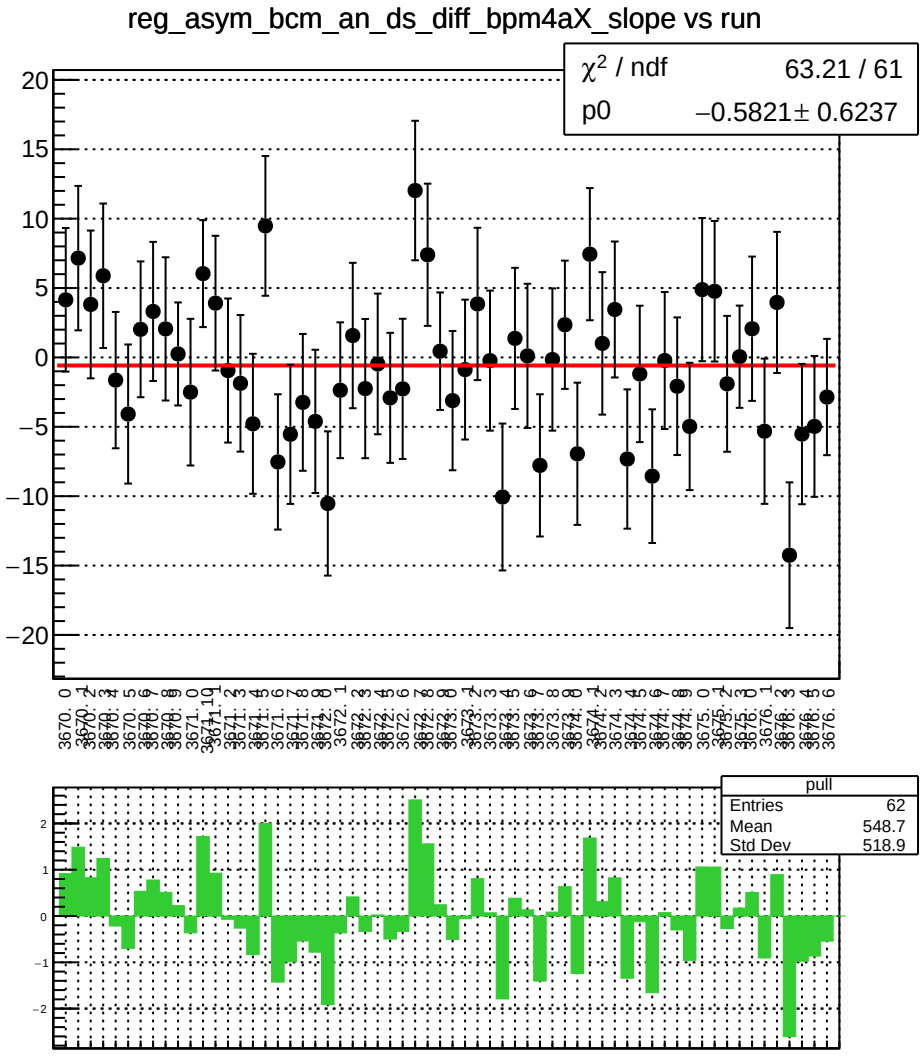

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 61.68 / 61
p0 0.02311 ± 0.01714
pull
Entries 62
Mean −182.4
Std Dev 209.1

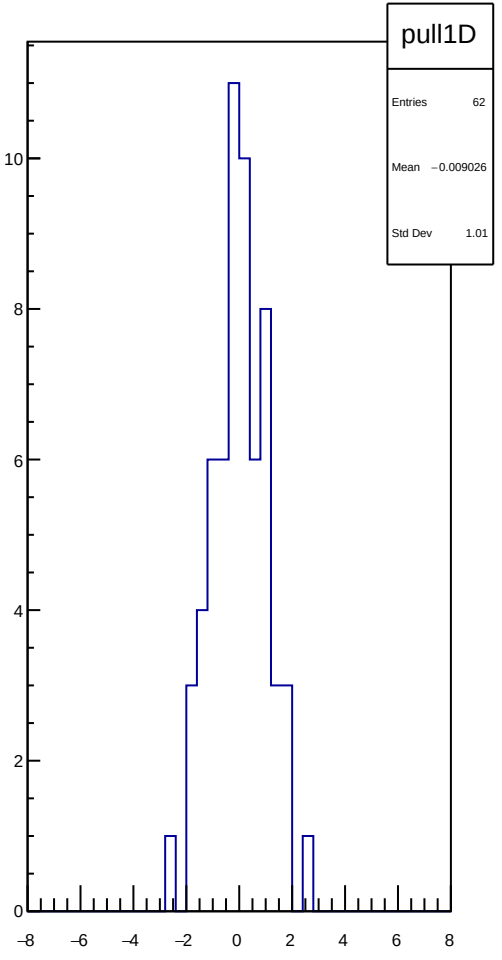

pull1D
Entries 62
Mean −0.01081
Std Dev 0.9973

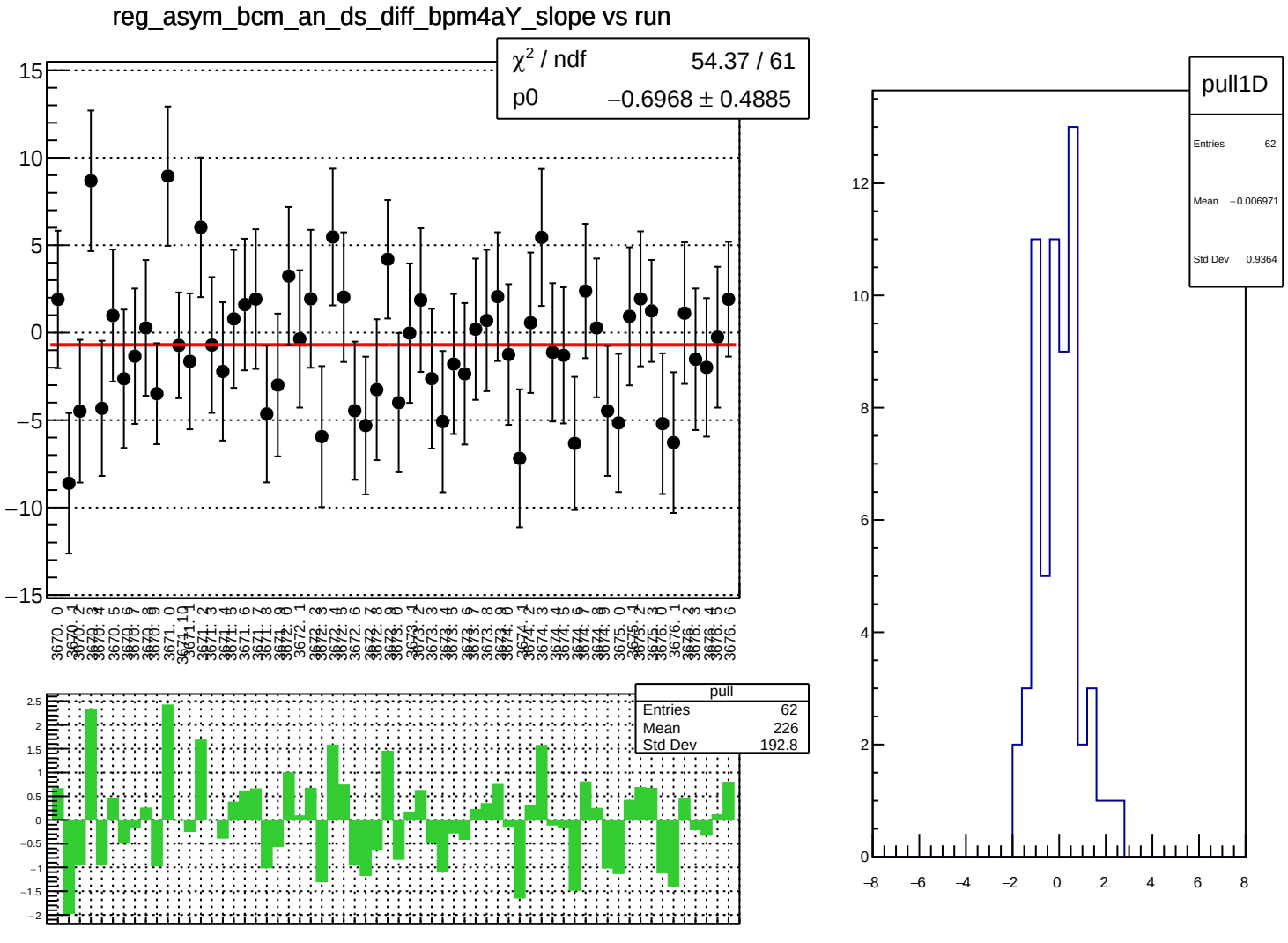

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 73.85 / 61
p0 0.354 ± 0.109
pull
Entries 62
Mean −128
Std Dev 179.3
pull1D
Entries 62
Mean 0.0179
Std Dev 1.091

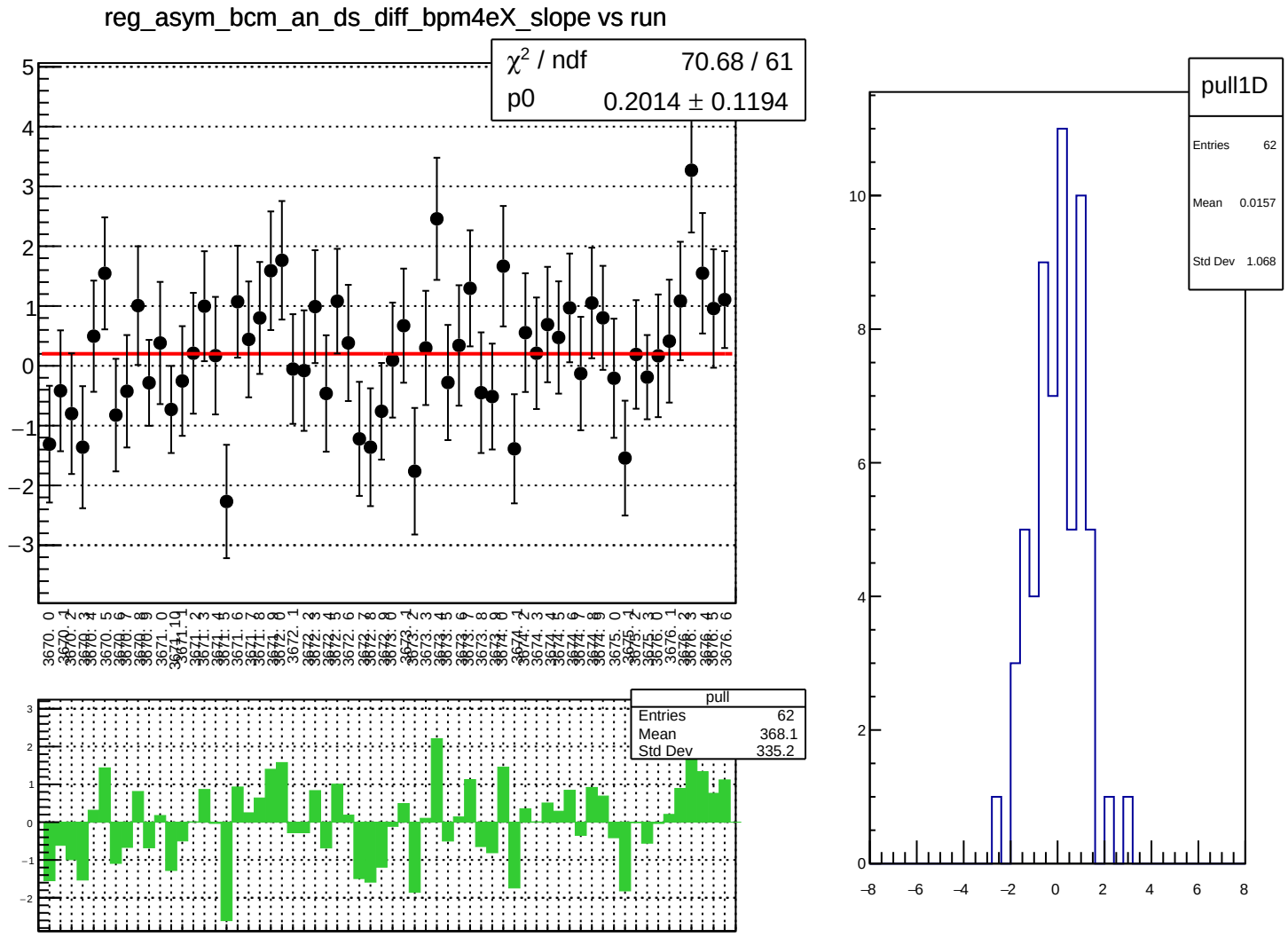

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 54.89 / 61
p0 0.008598 ± 0.01665
pull
Entries 62
Mean 1381
Std Dev 1343

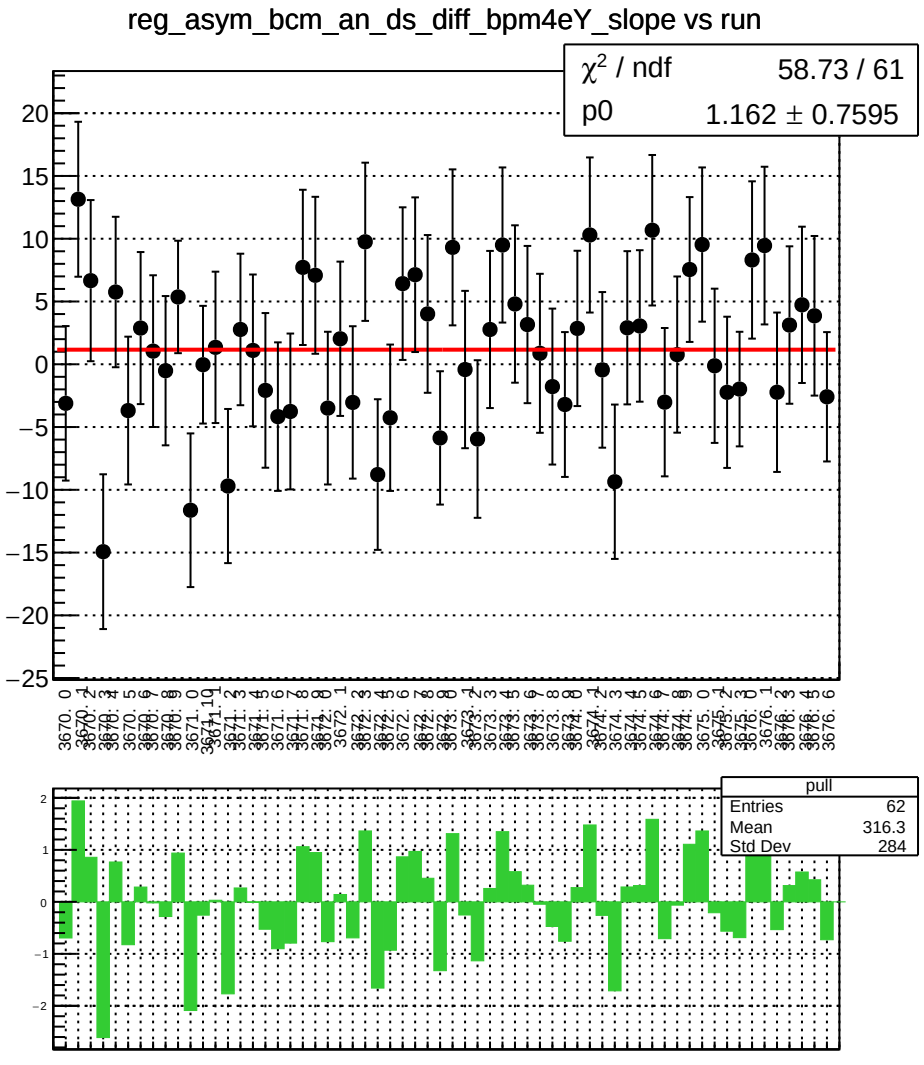

pull1D
Entries 62
Mean −0.0007099
Std Dev 0.9409

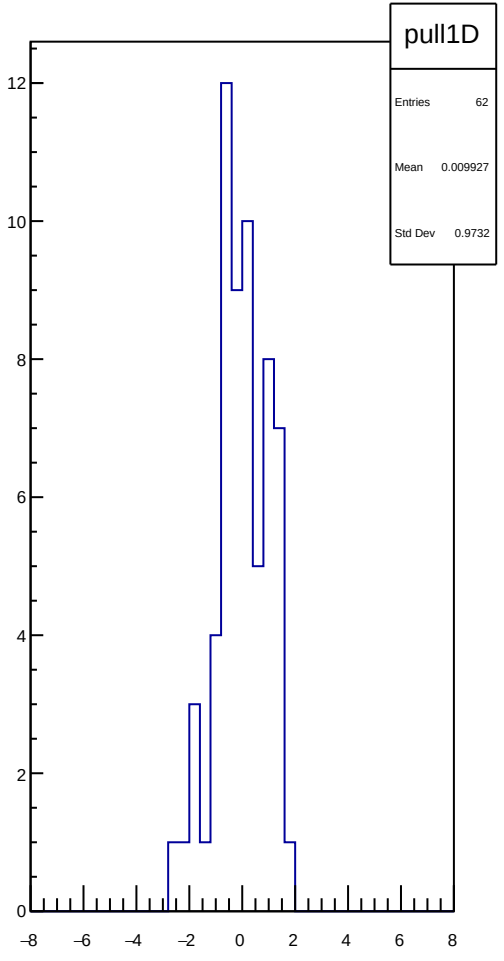

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 63.21 / 61
p0 −0.5821± 0.6237
pull
Entries 62
Mean 548.7
Std Dev 518.9

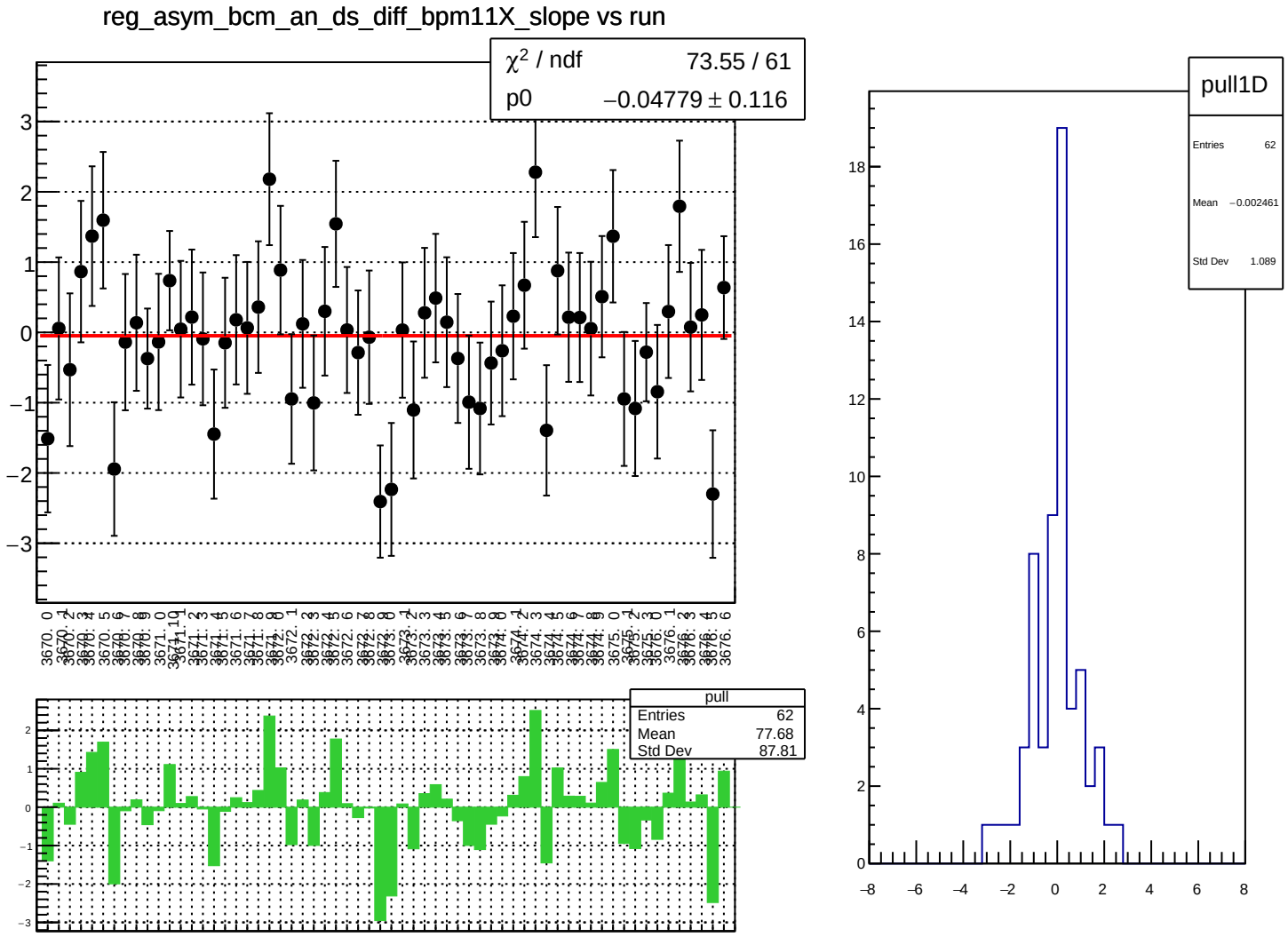

pull1D
Entries 62
Mean −0.009026
Std Dev 1.01

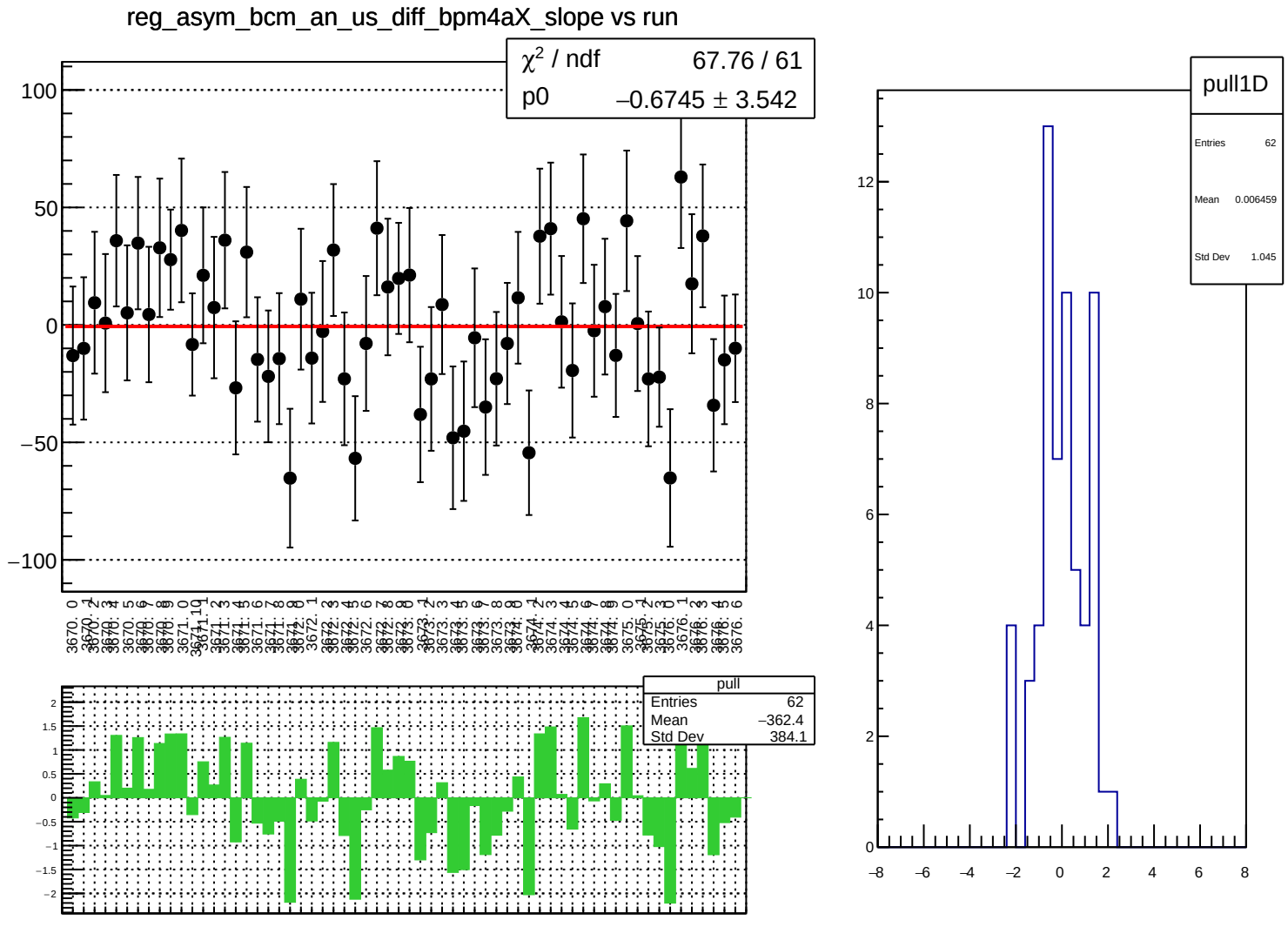

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 54.37 / 61
p0 −0.6968 ± 0.4885
pull
Entries 62
Mean 226
Std Dev 192.8
pull1D
Entries 62
Mean −0.006971
Std Dev 0.9364

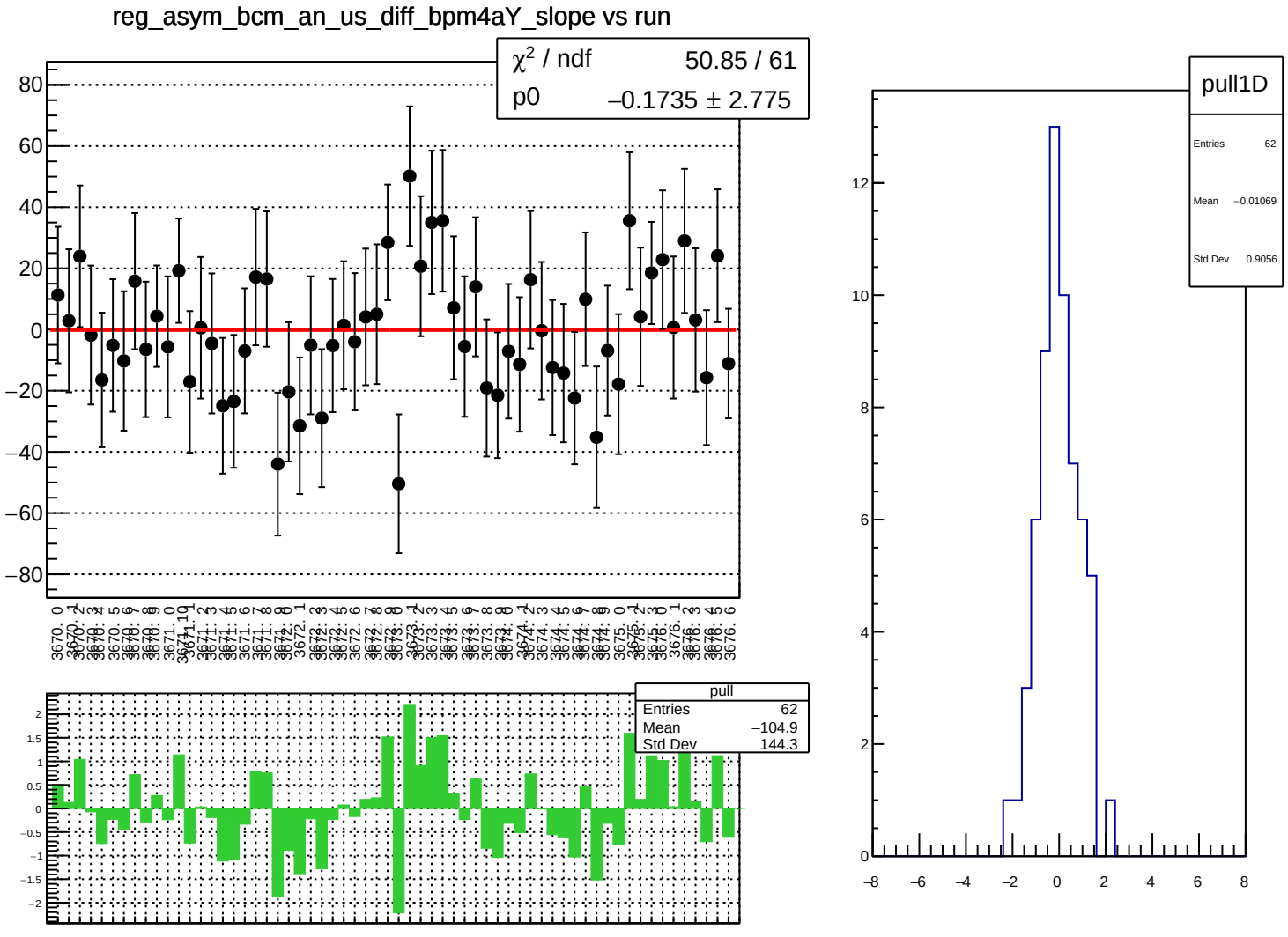

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 70.68 / 61
p0 0.2014 ± 0.1194
pull
Entries 62
Mean 368.1
Std Dev 335.2
pull1D
Entries 62
Mean 0.0157
Std Dev 1.068

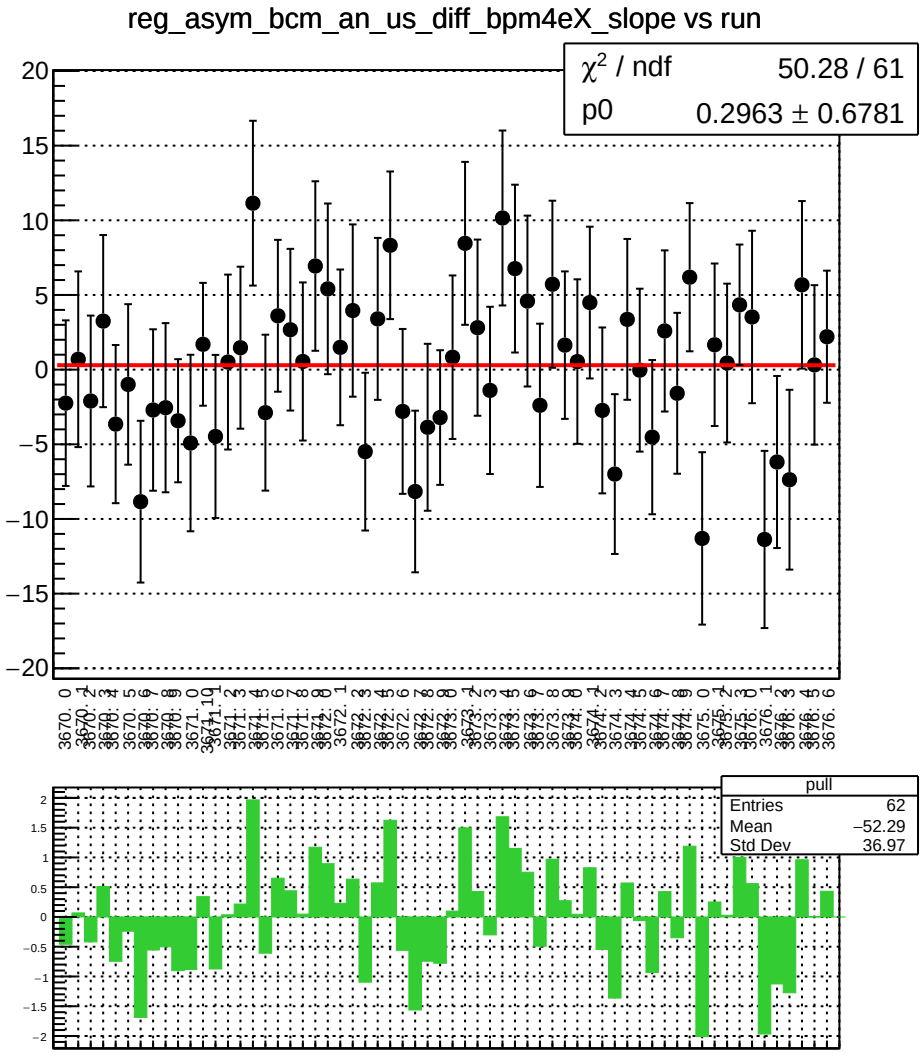

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 58.73 / 61
p0 1.162 ± 0.7595
pull
Entries 62
Mean 316.3
Std Dev 284

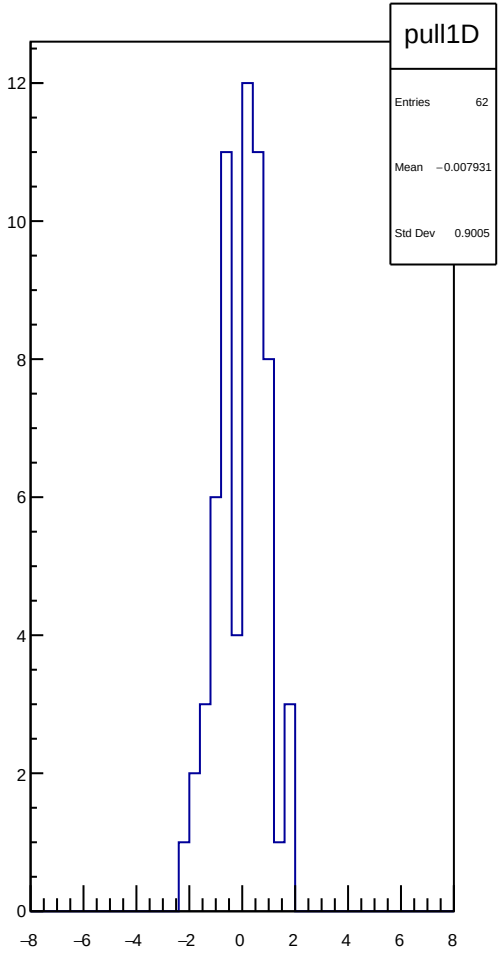

pull1D
Entries 62
Mean 0.009927
Std Dev 0.9732

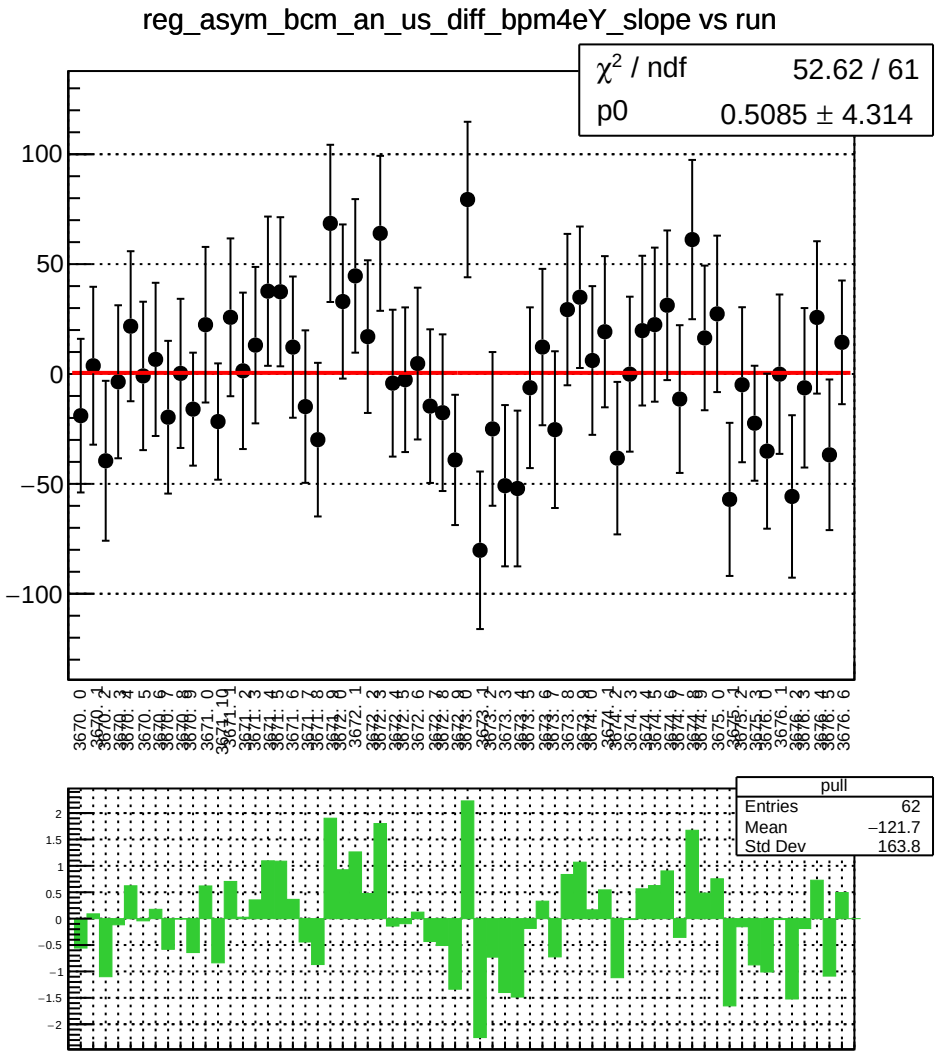

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 73.55 / 61
p0 −0.04779 ± 0.116
pull
Entries 62
Mean 77.68
Std Dev 87.81
pull1D
Entries 62
Mean −0.002461
Std Dev 1.089

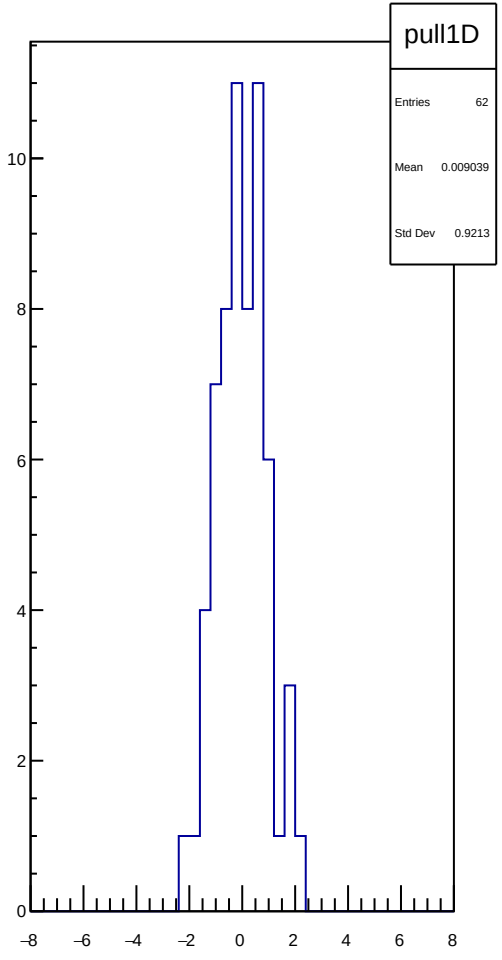

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 67.76 / 61
p0 −0.6745 ± 3.542
100
50
0
−50
−100
pull
Entries 62
Mean −362.4
Std Dev 384.1
pull1D
Entries 62
Mean 0.006459
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

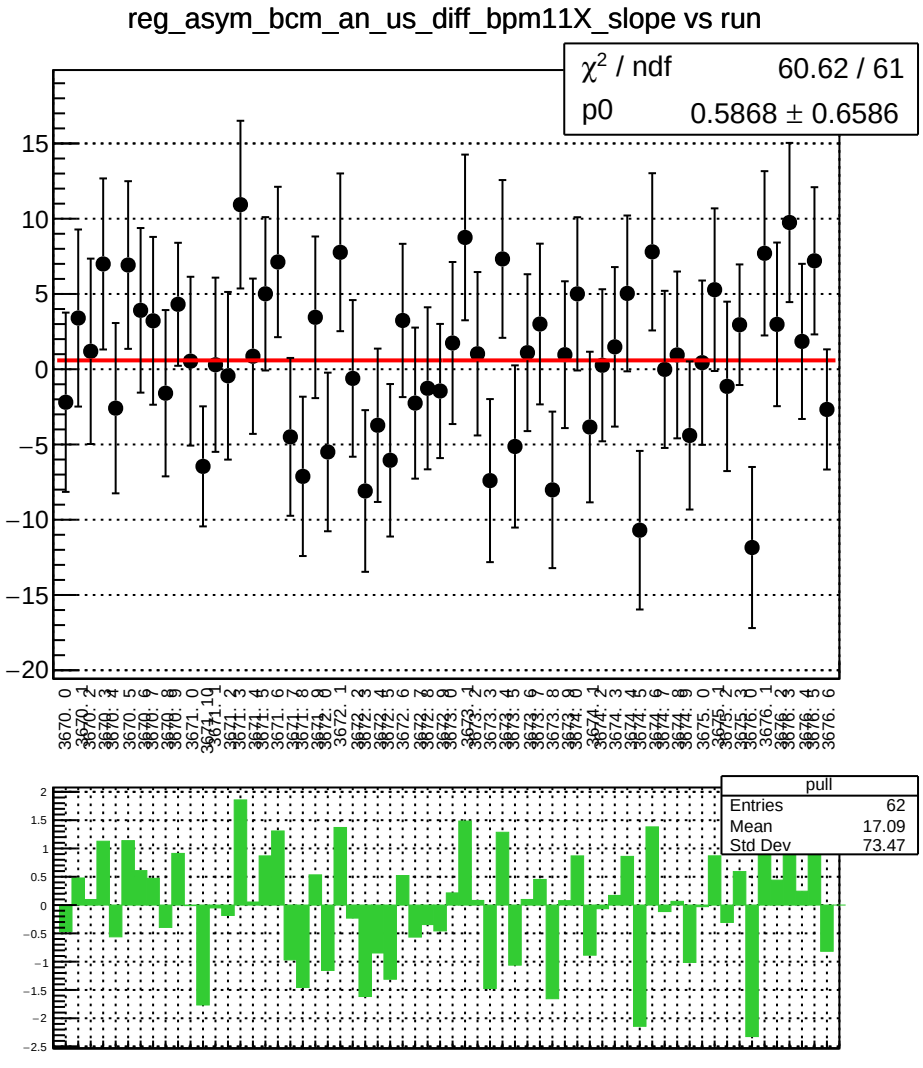

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 50.85 / 61
p0 −0.1735 ± 2.775
pull
Entries 62
Mean −104.9
Std Dev 144.3
pull1D
Entries 62
Mean −0.01069
Std Dev 0.9056

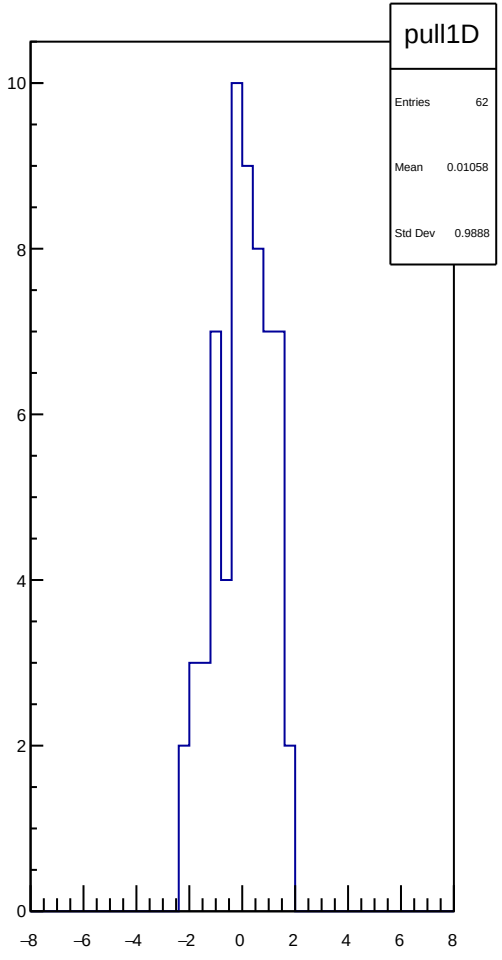

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 50.28 / 61
p0 0.2963 ± 0.6781
pull
Entries 62
Mean −52.29
Std Dev 36.97

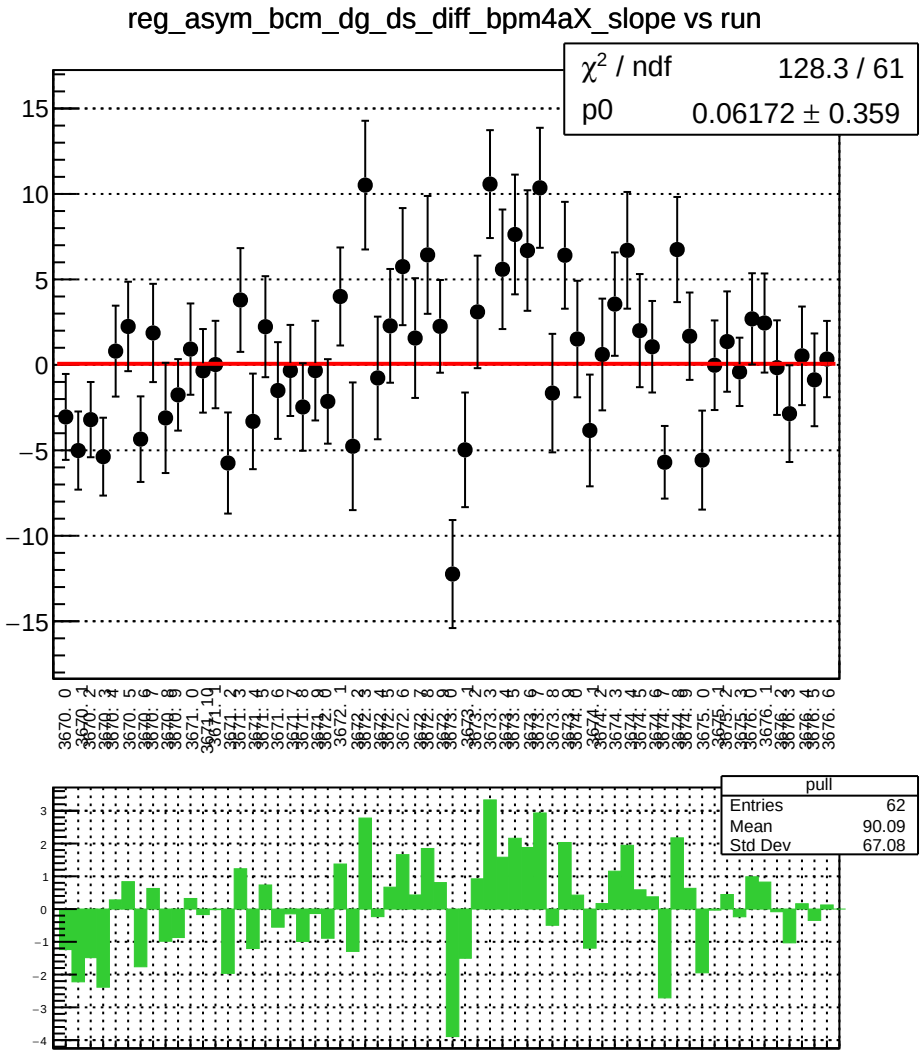

pull1D
Entries 62
Mean −0.007931
Std Dev 0.9005

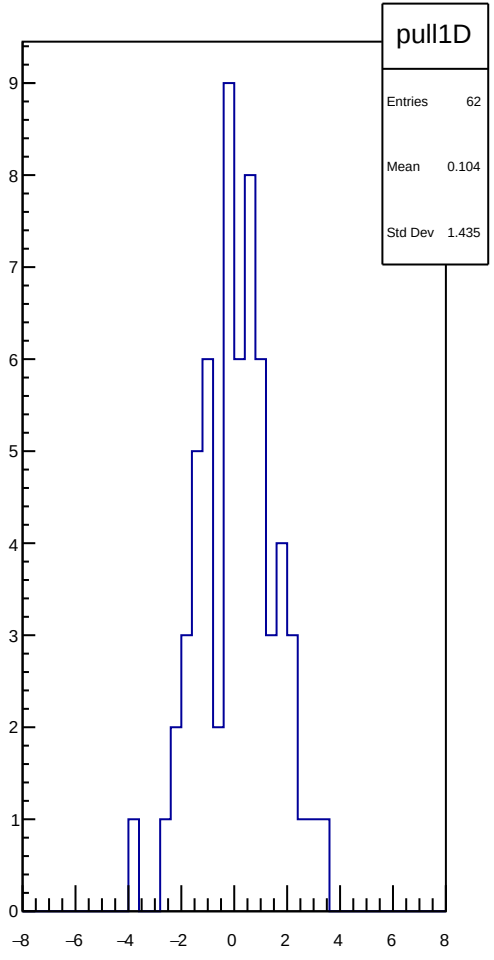

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 52.62 / 61
p0 0.5085 ± 4.314
100
50
0
−50
−100
pull
Entries 62
Mean −121.7
Std Dev 163.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

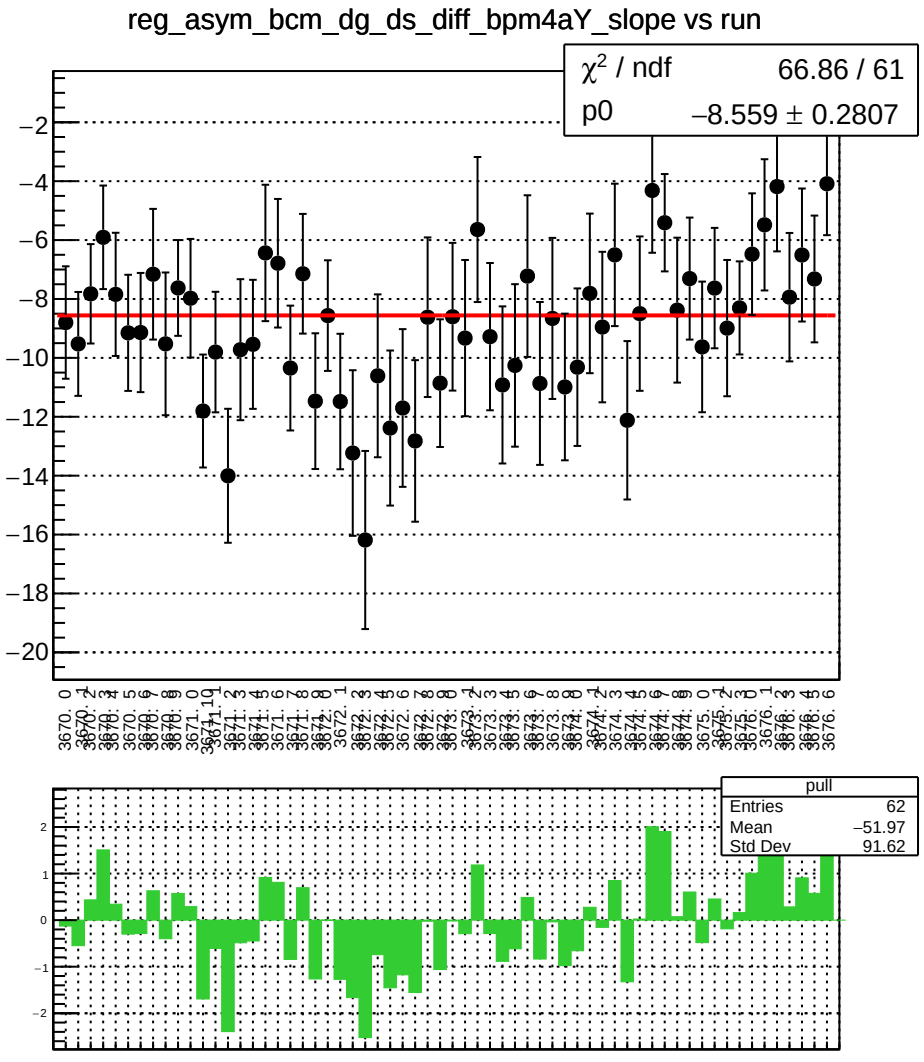

pull1D
Entries 62
Mean 0.009039
Std Dev 0.9213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

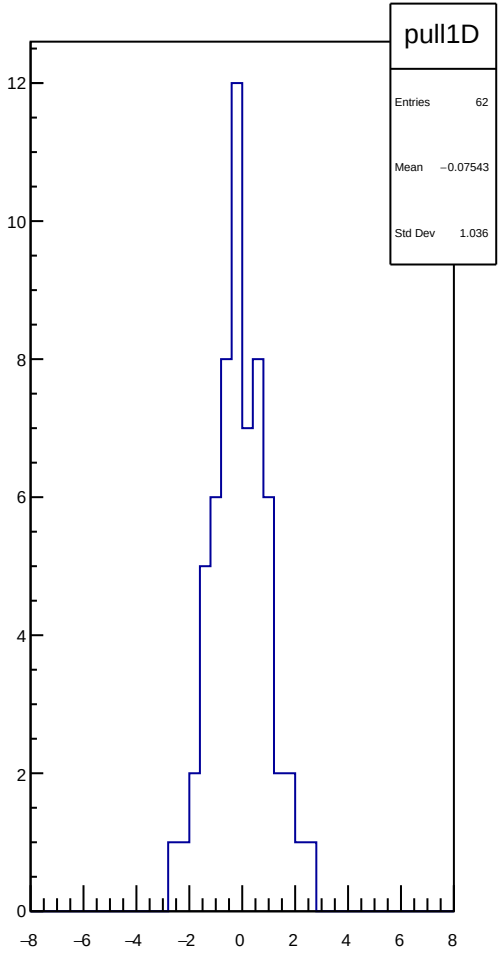

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 60.62 / 61
p0 0.5868 ± 0.6586
pull
Entries 62
Mean 17.09
Std Dev 73.47

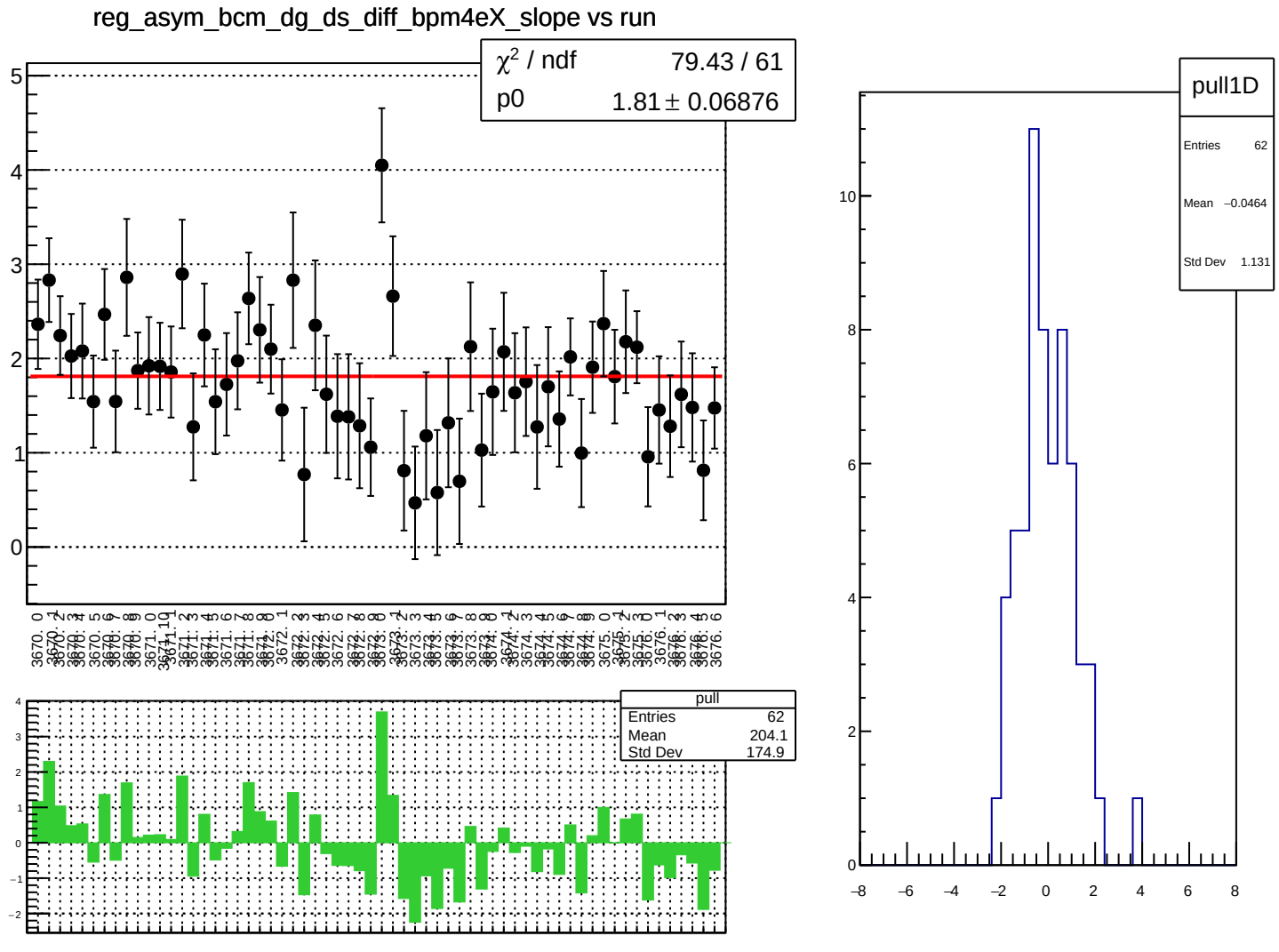

pull1D
Entries 62
Mean 0.01058
Std Dev 0.9888

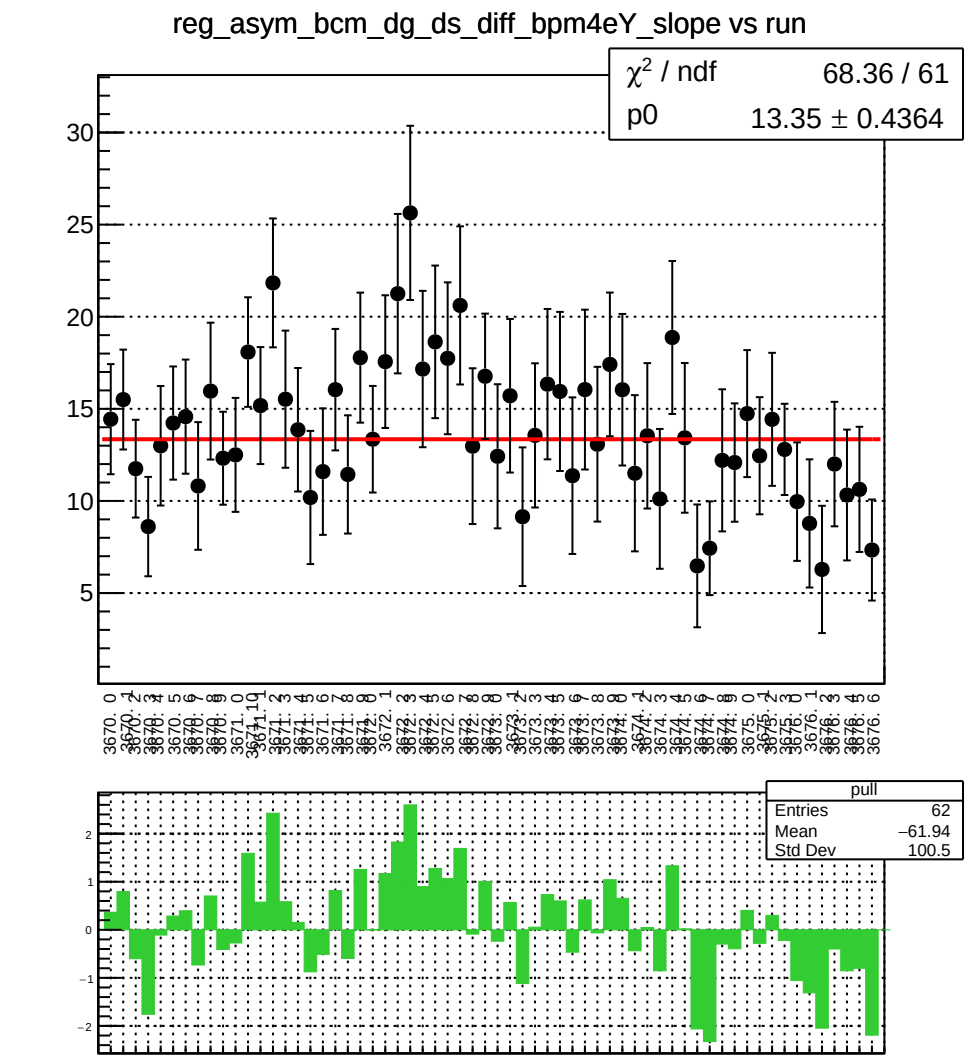

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 128.3 / 61
p0 0.06172 ± 0.359
pull
Entries 62
Mean 90.09
Std Dev 67.08

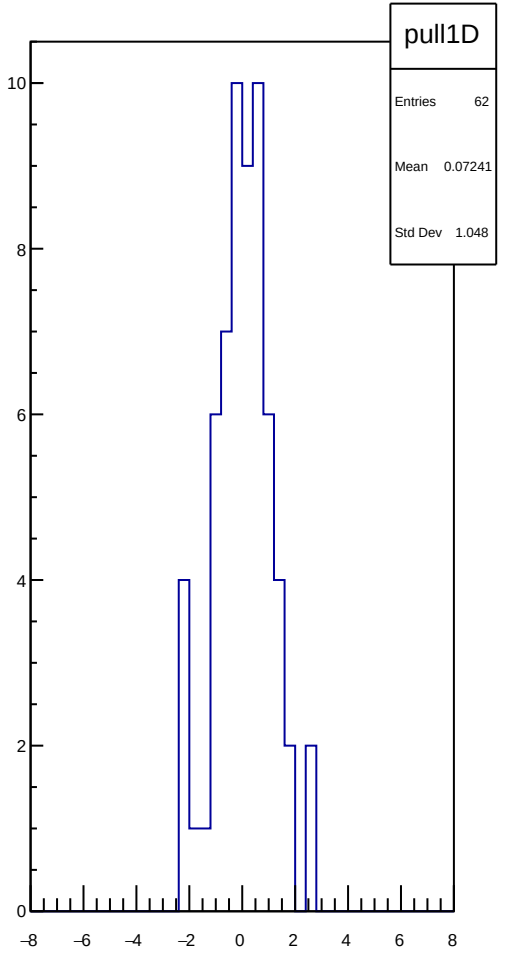

pull1D
Entries 62
Mean 0.104
Std Dev 1.435

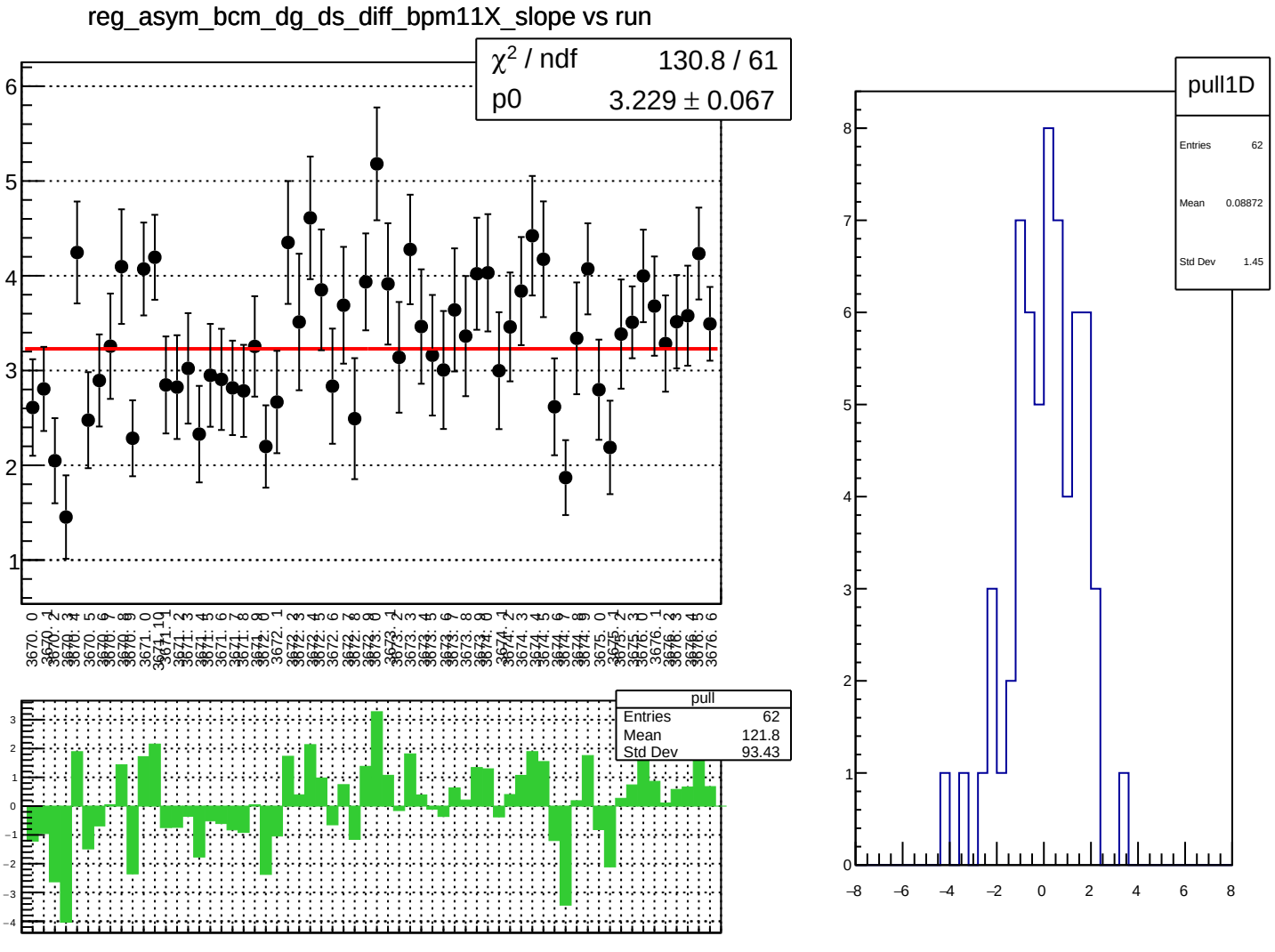

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 66.86 / 61
p0 −8.559 ± 0.2807
pull
Entries 62
Mean −51.97
Std Dev 91.62

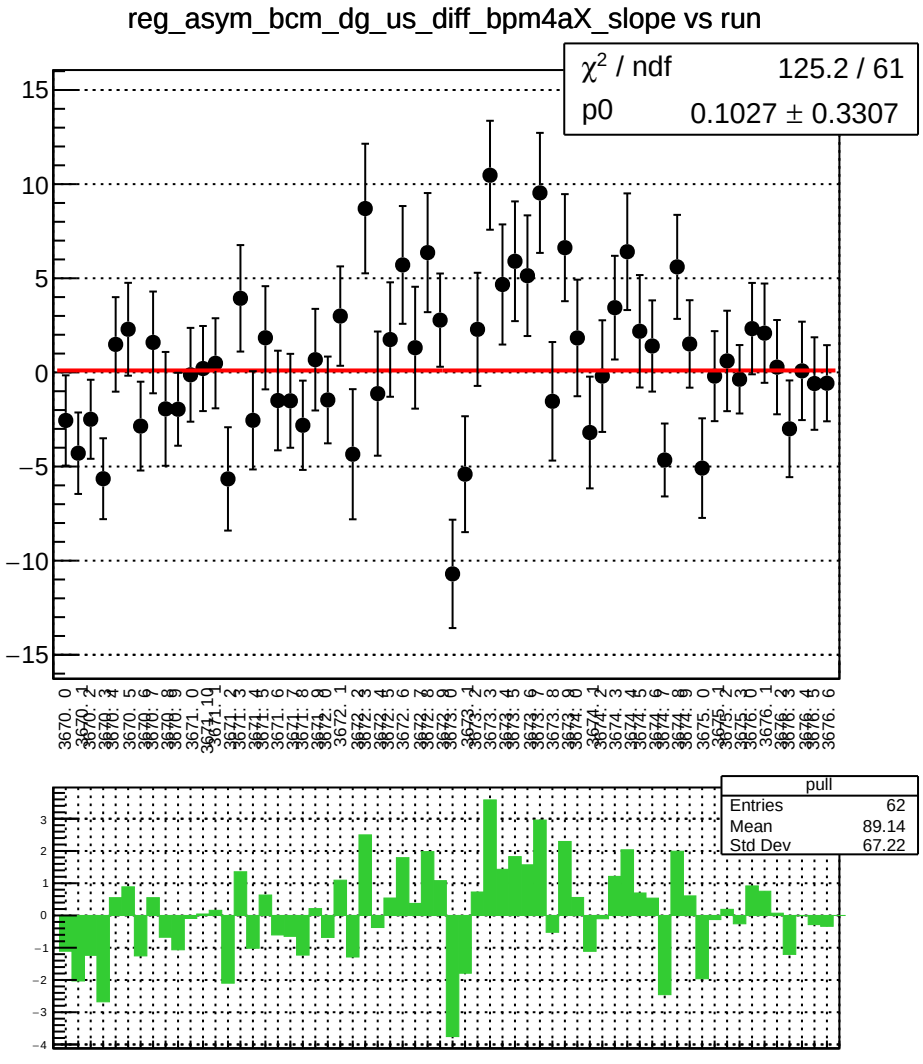

pull1D
Entries 62
Mean −0.07543
Std Dev 1.036

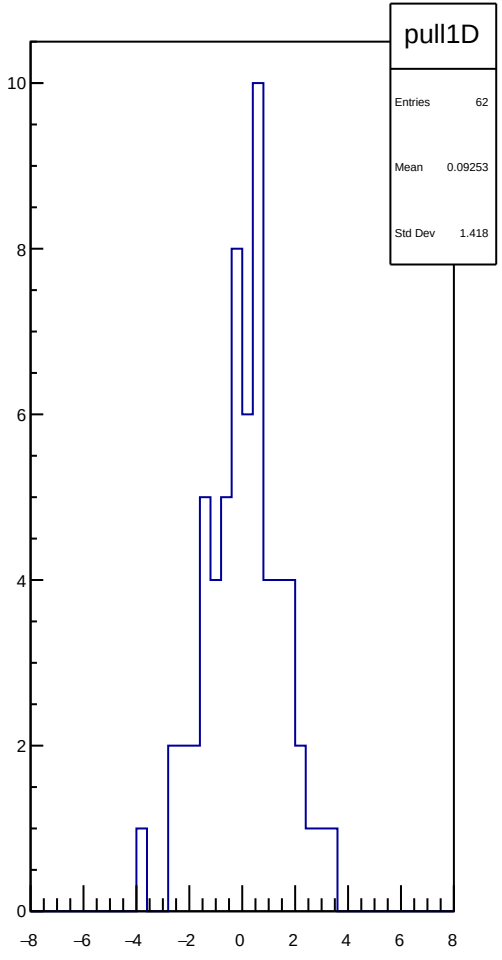

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 79.43 / 61
p0 1.81 ± 0.06876
pull
Entries 62
Mean 204.1
Std Dev 174.9
pull1D
Entries 62
Mean −0.0464
Std Dev 1.131

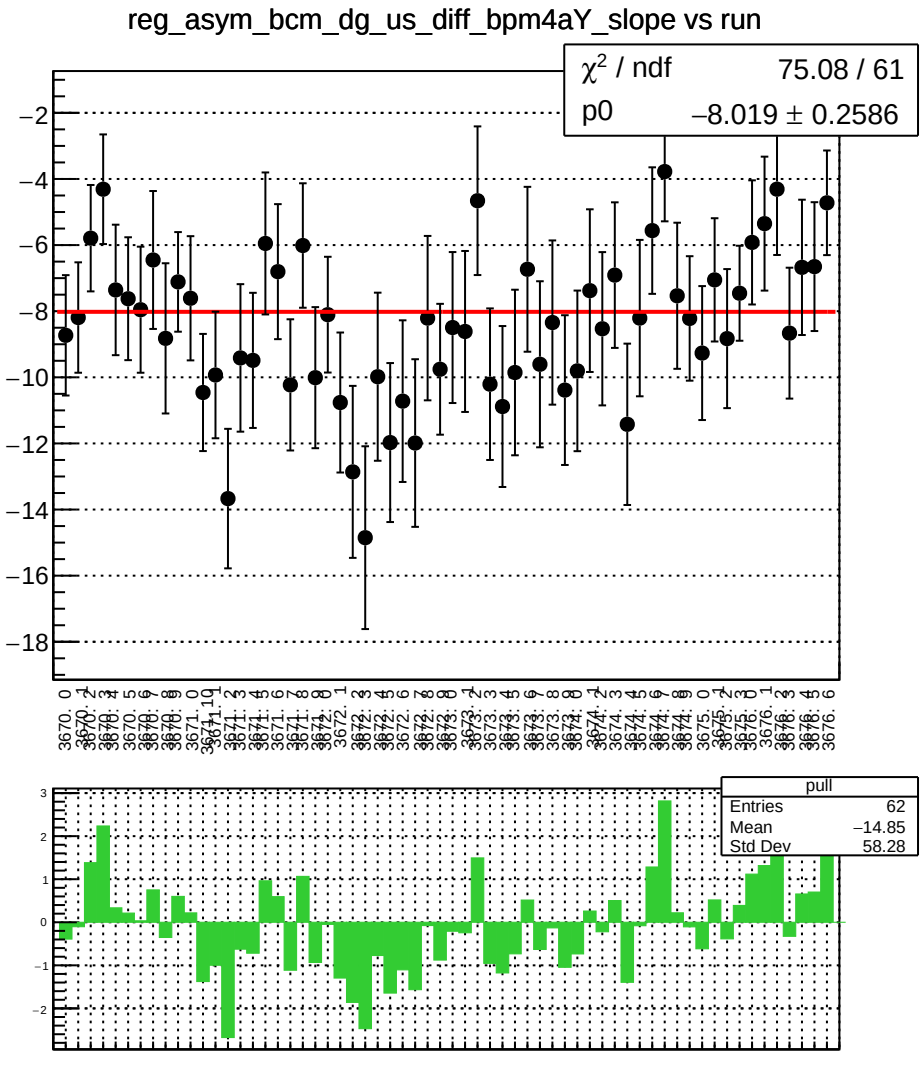

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 68.36 / 61
p0 13.35 ± 0.4364
pull
Entries 62
Mean −61.94
Std Dev 100.5

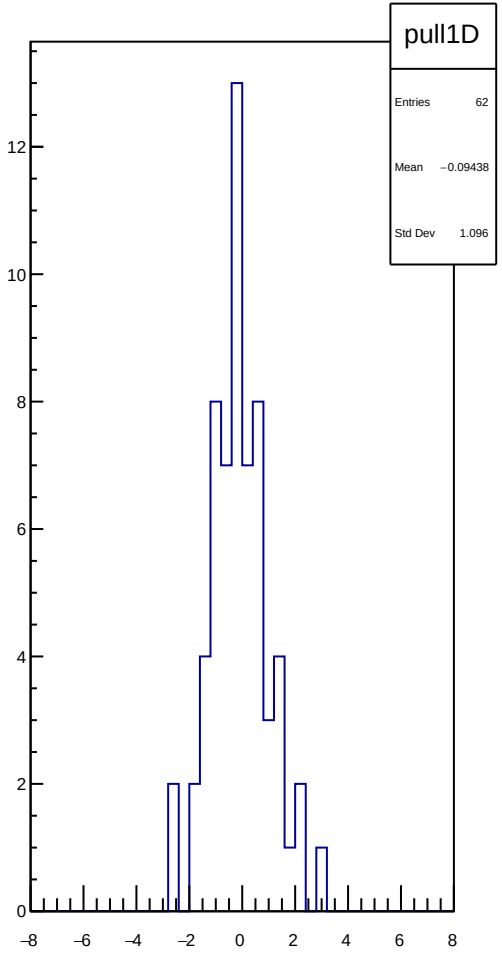

pull1D
Entries 62
Mean 0.07241
Std Dev 1.048

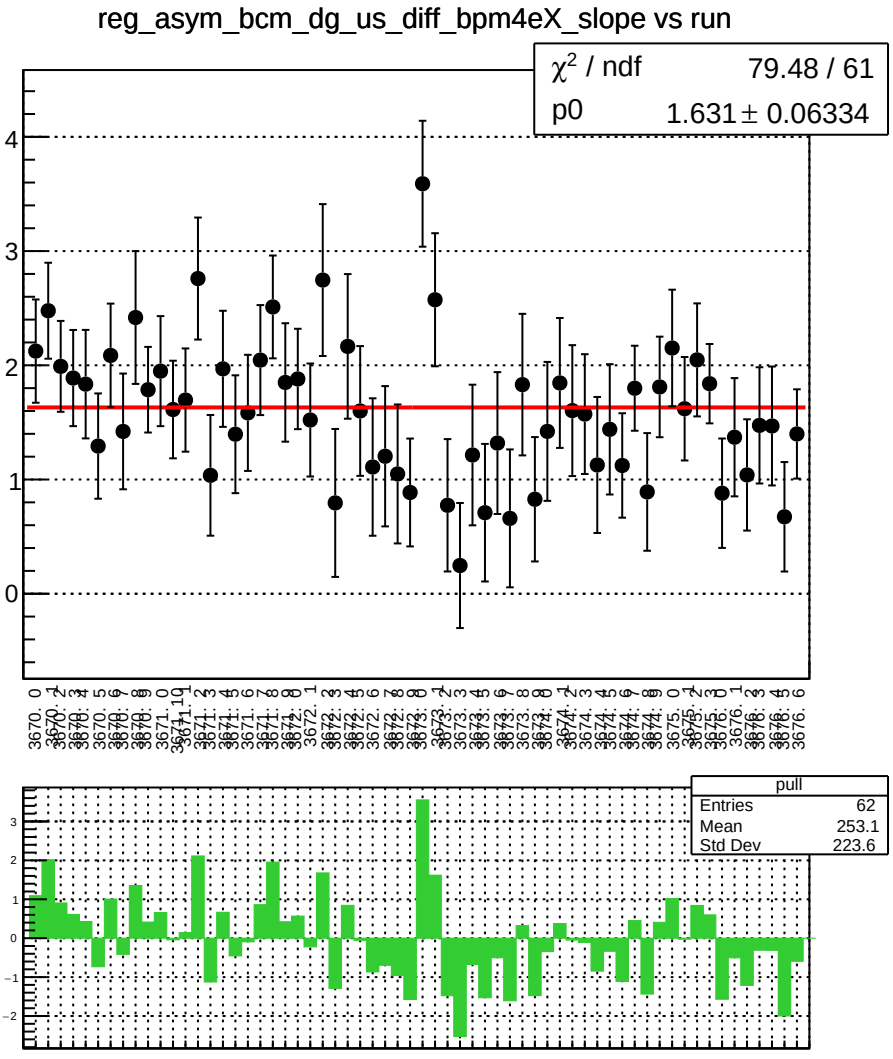

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 130.8 / 61
p0 3.229 ± 0.067
pull
Entries 62
Mean 121.8
Std Dev 93.43
pull1D
Entries 62
Mean 0.08872
Std Dev 1.45

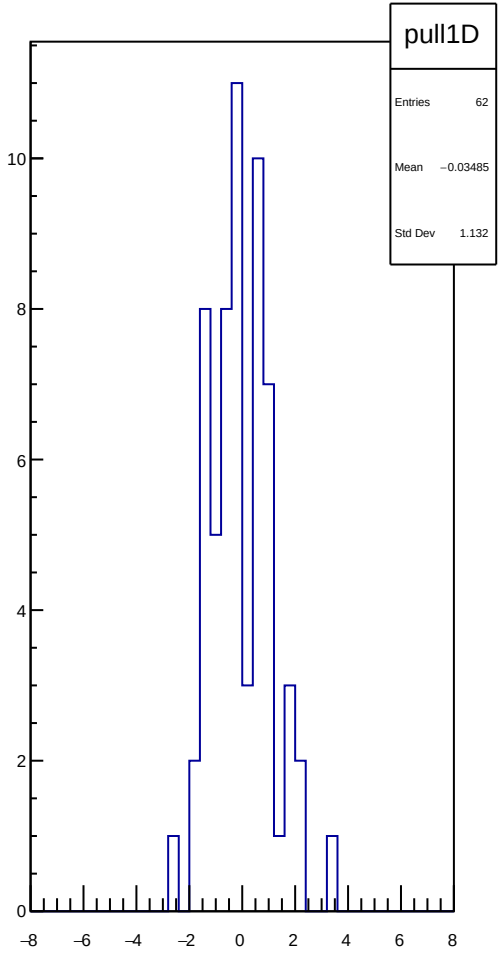

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 125.2 / 61
p0 0.1027 ± 0.3307
pull
Entries 62
Mean 89.14
Std Dev 67.22

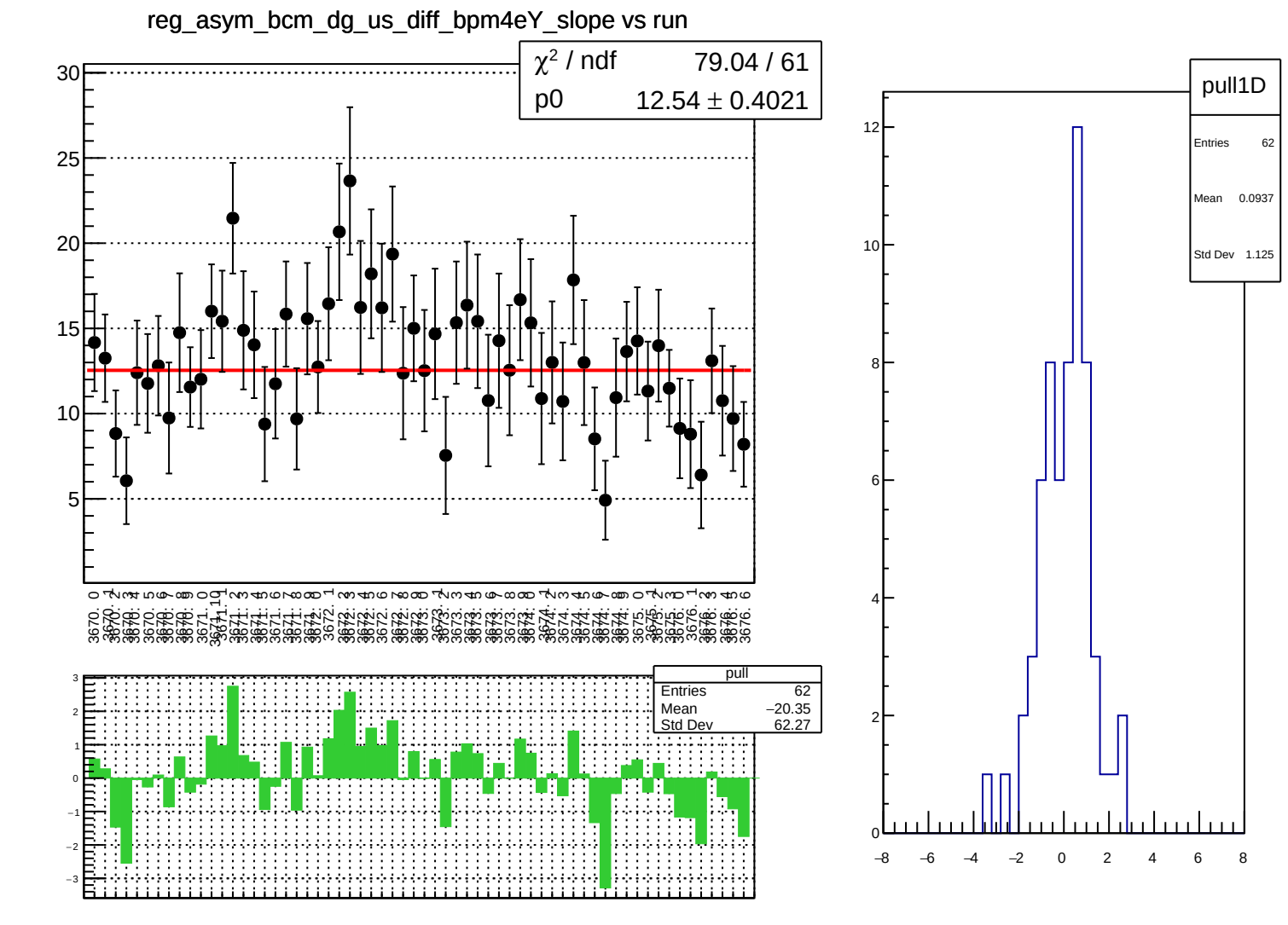

pull1D
Entries 62
Mean 0.09253
Std Dev 1.418

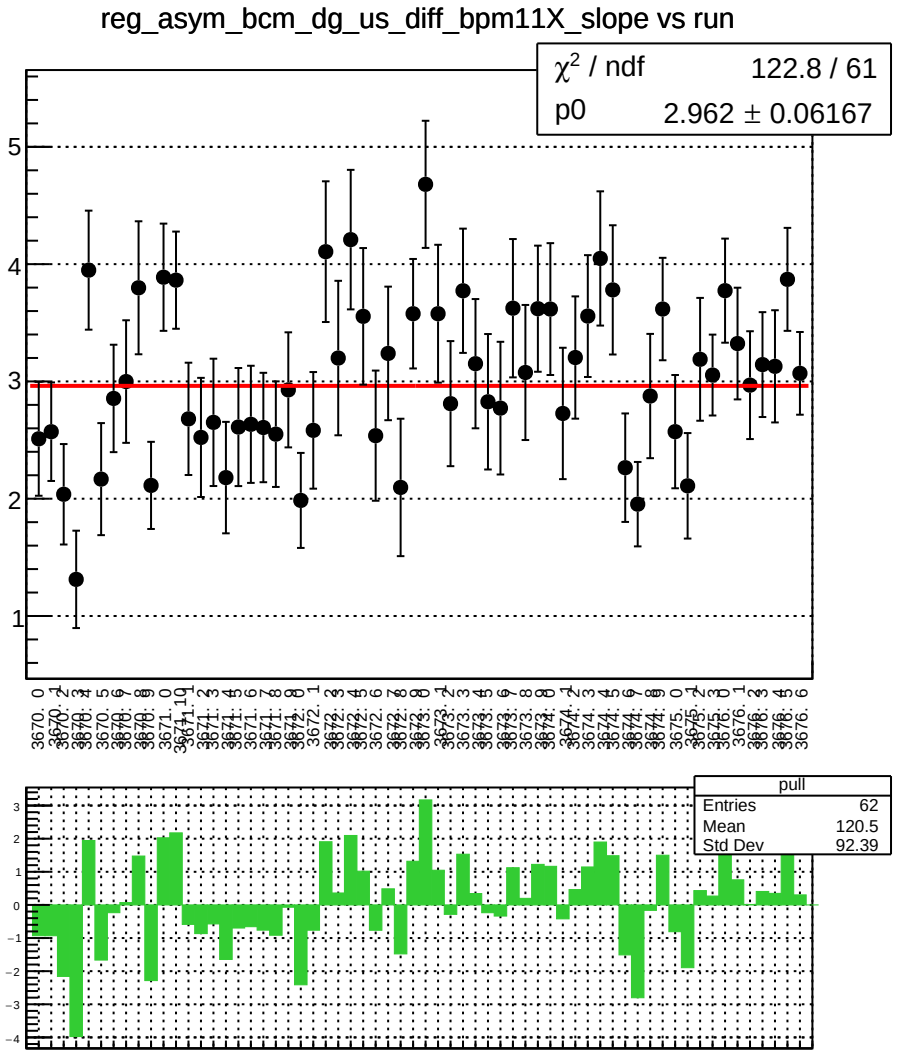

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 75.08 / 61
p0 −8.019 ± 0.2586
pull
Entries 62
Mean −14.85
Std Dev 58.28

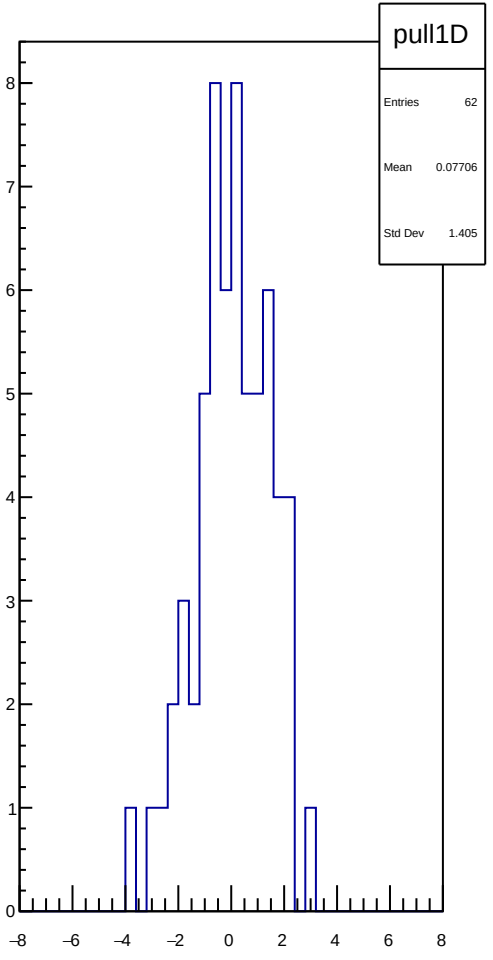

pull1D
Entries 62
Mean −0.09438
Std Dev 1.096

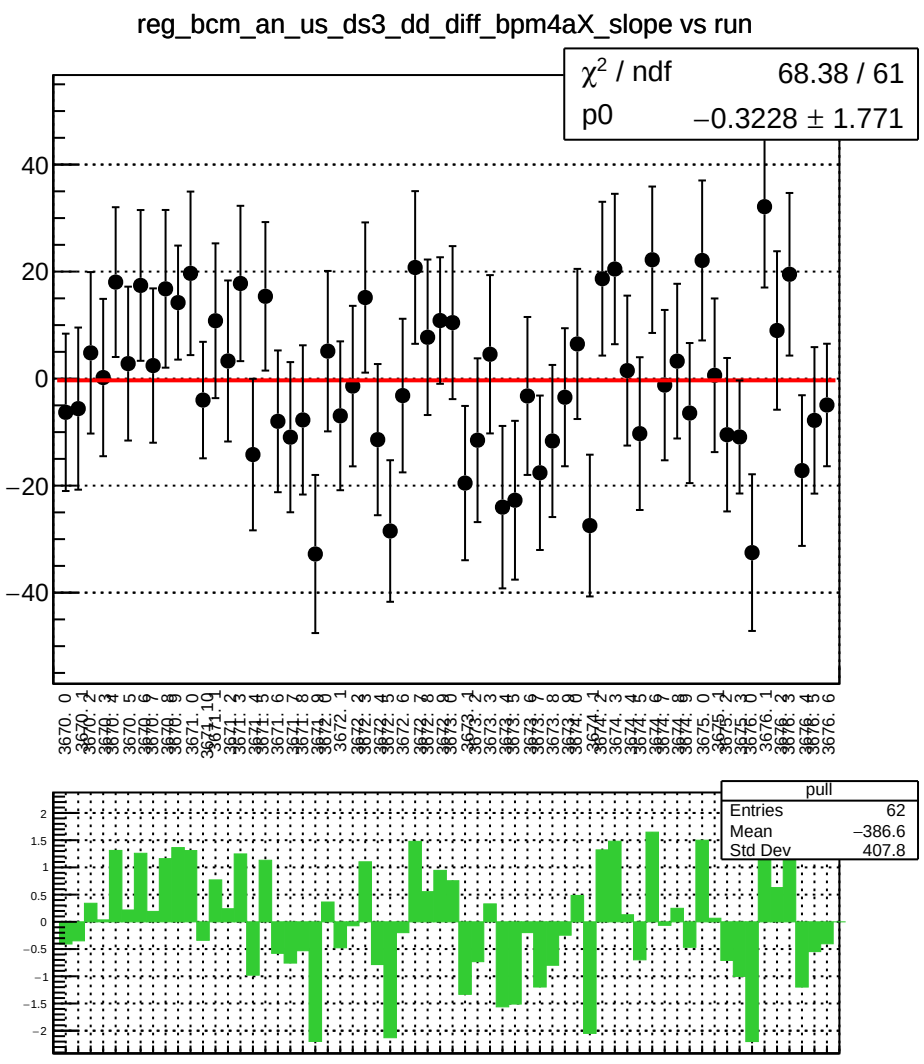

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 79.48 / 61
p0 1.631 ± 0.06334
pull
Entries 62
Mean 253.1
Std Dev 223.6

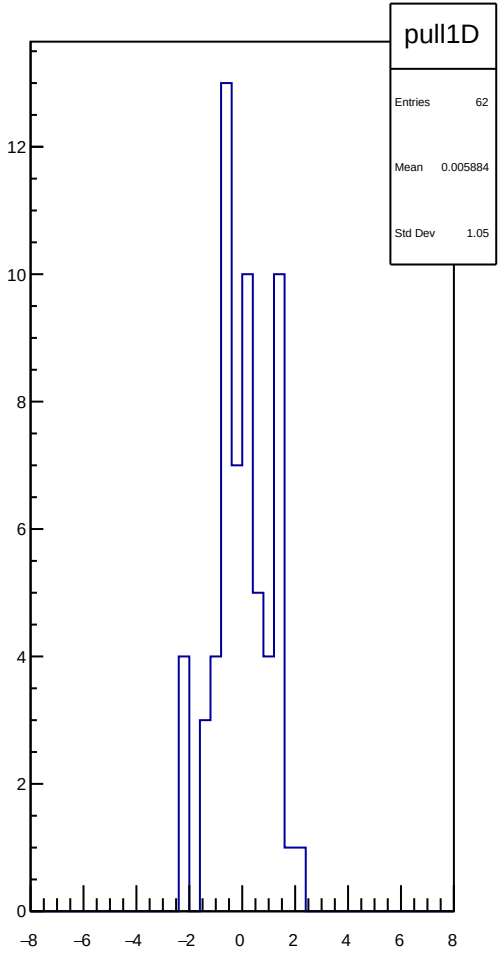

pull1D
Entries 62
Mean −0.03485
Std Dev 1.132

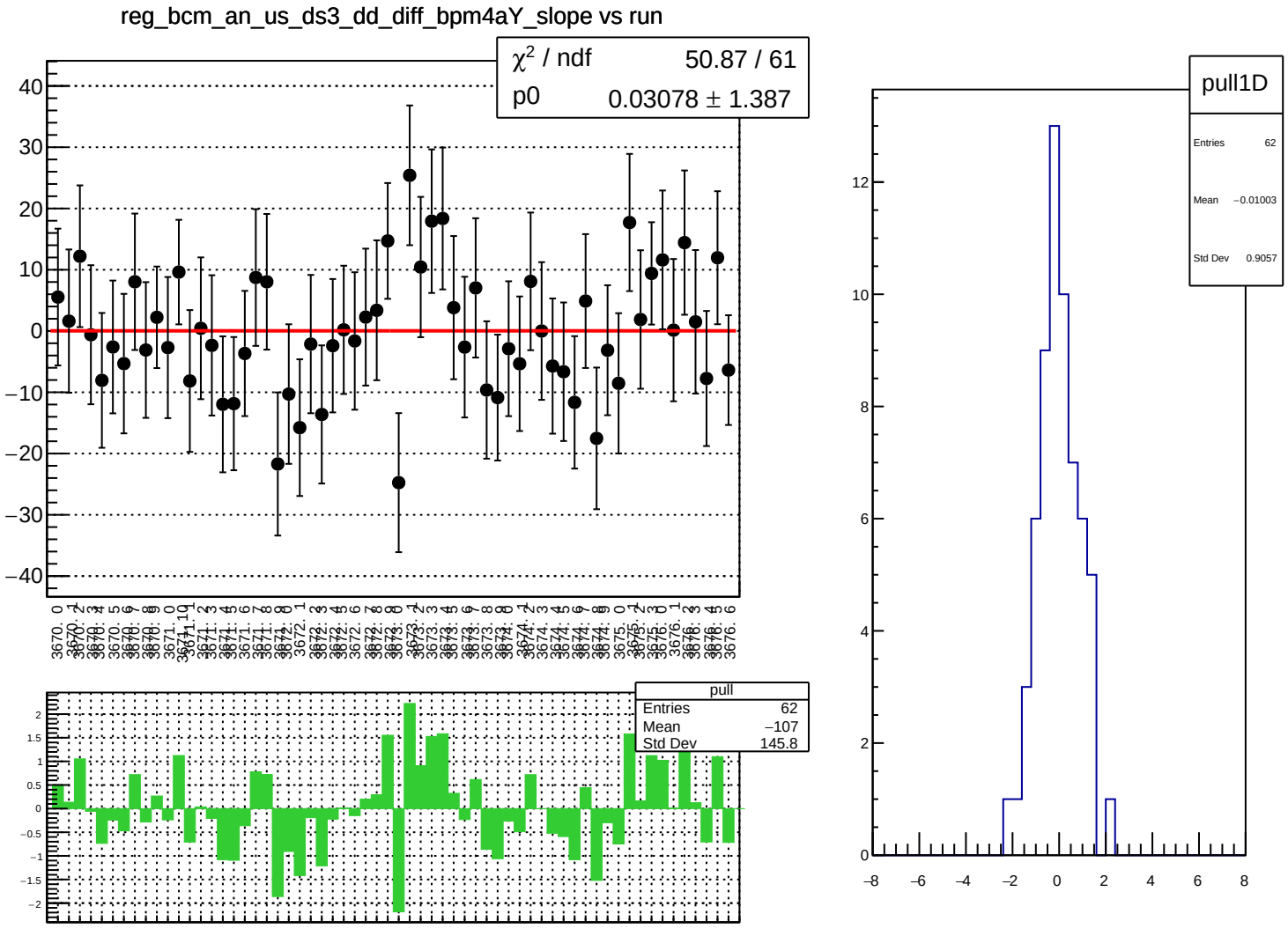

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 79.04 / 61
p0 12.54 ± 0.4021
pull
Entries 62
Mean −20.35
Std Dev 62.27
pull1D
Entries 62
Mean 0.0937
Std Dev 1.125

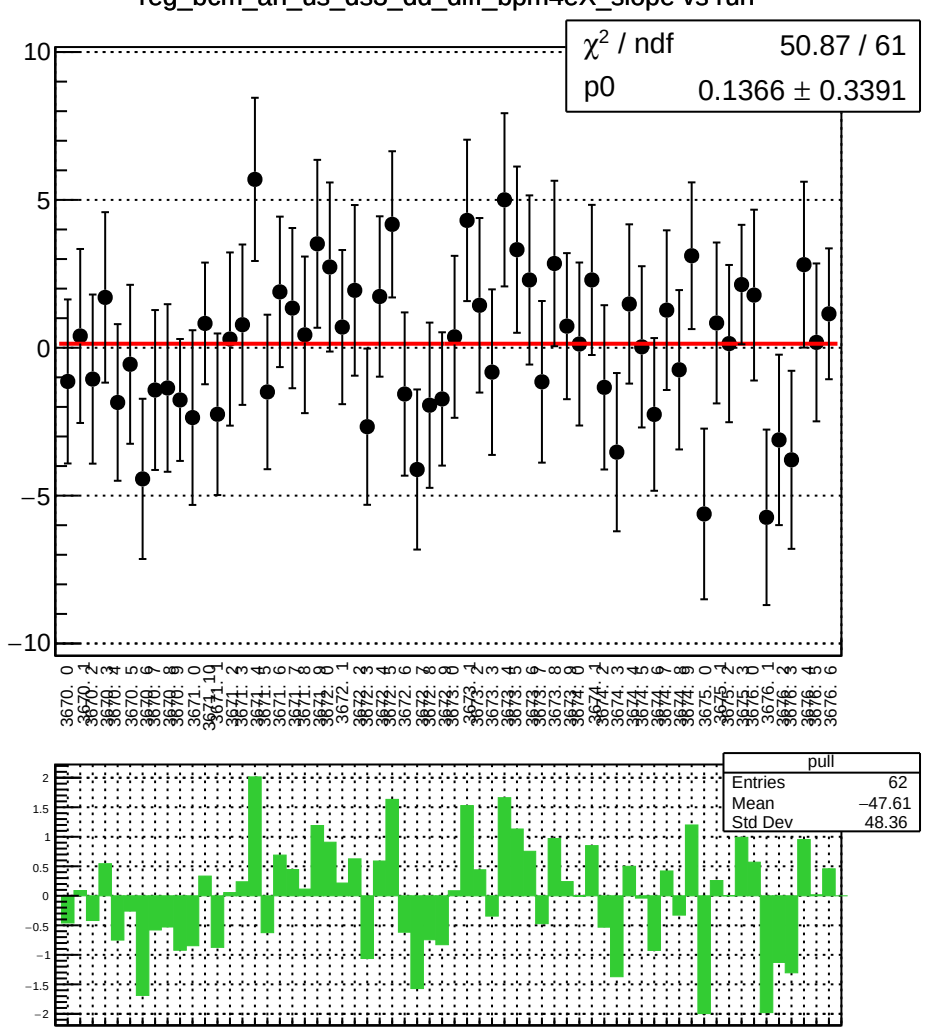

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 122.8 / 61
p0 2.962 ± 0.06167
pull
Entries 62
Mean 120.5
Std Dev 92.39

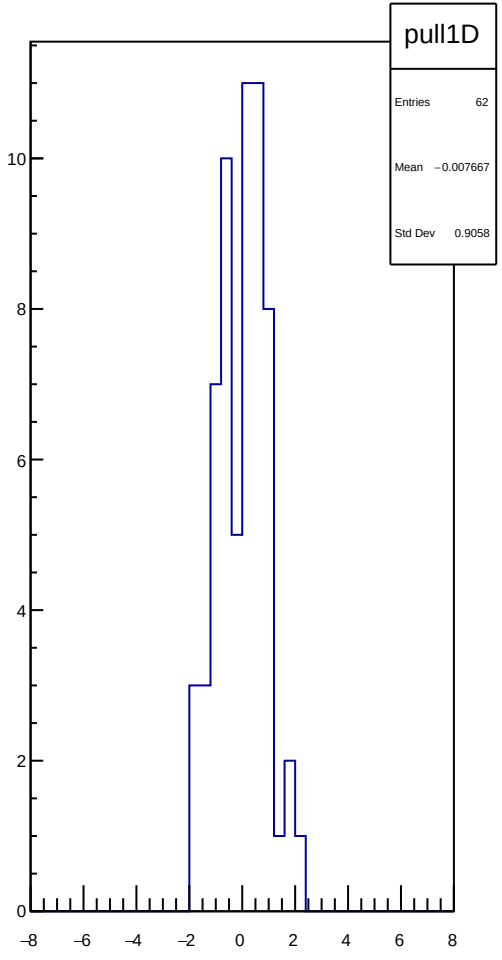

pull1D
Entries 62
Mean 0.07706
Std Dev 1.405

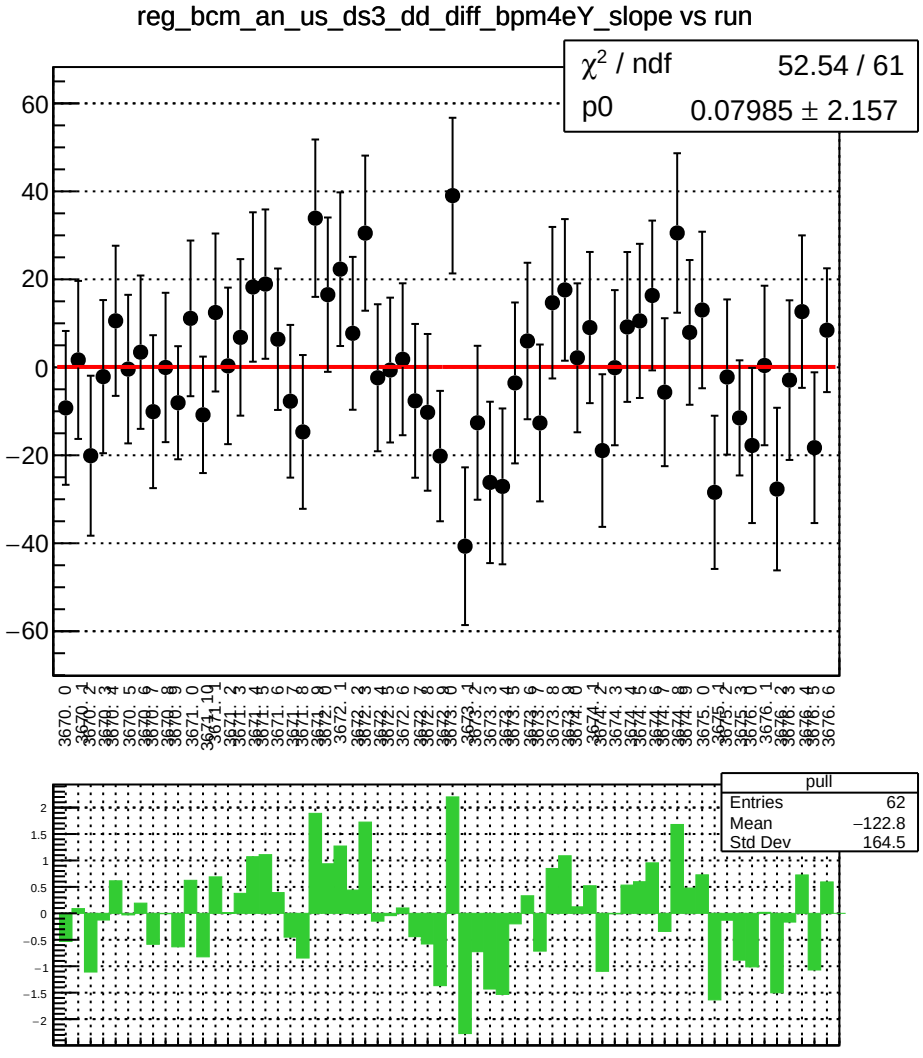

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 68.38 / 61
p0 −0.3228 ± 1.771
pull
Entries 62
Mean −386.6
Std Dev 407.8

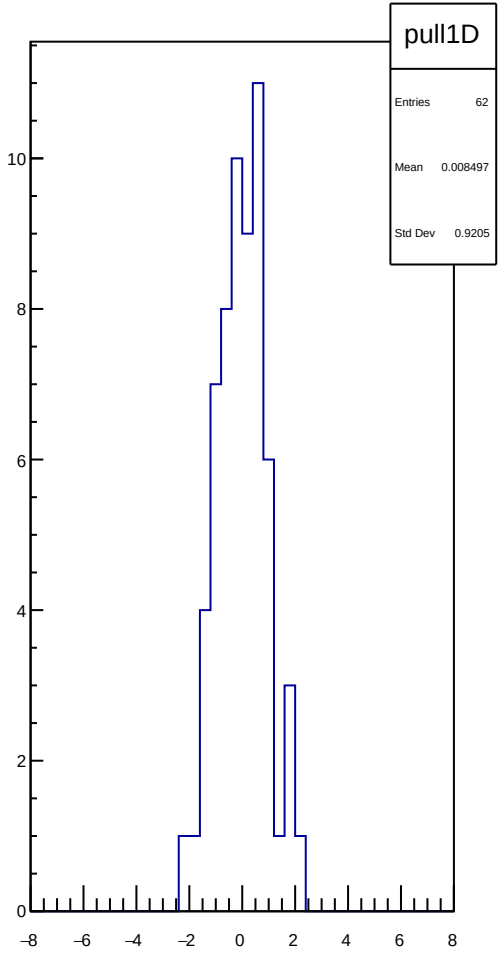

pull1D
Entries 62
Mean 0.005884
Std Dev 1.05

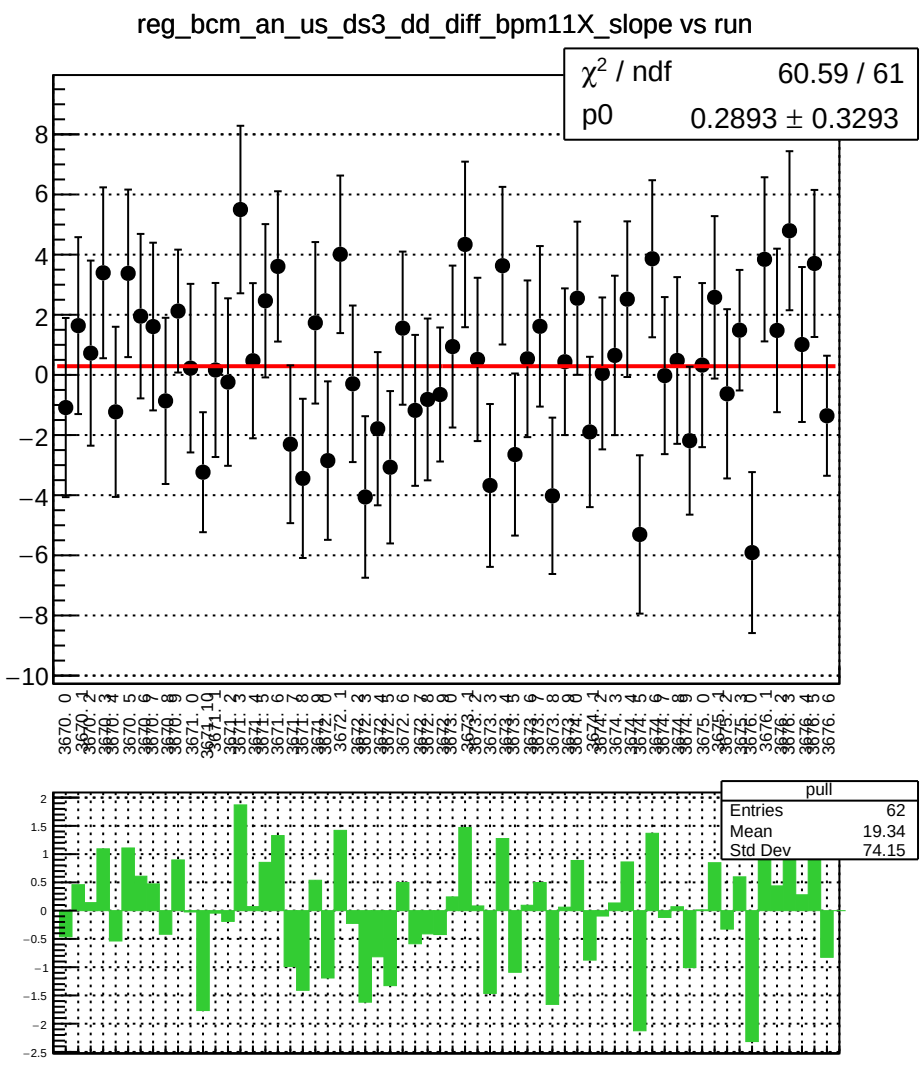

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.87 / 61
p0 0.03078 ± 1.387
pull
Entries 62
Mean −107
Std Dev 145.8
pull1D
Entries 62
Mean −0.01003
Std Dev 0.9057

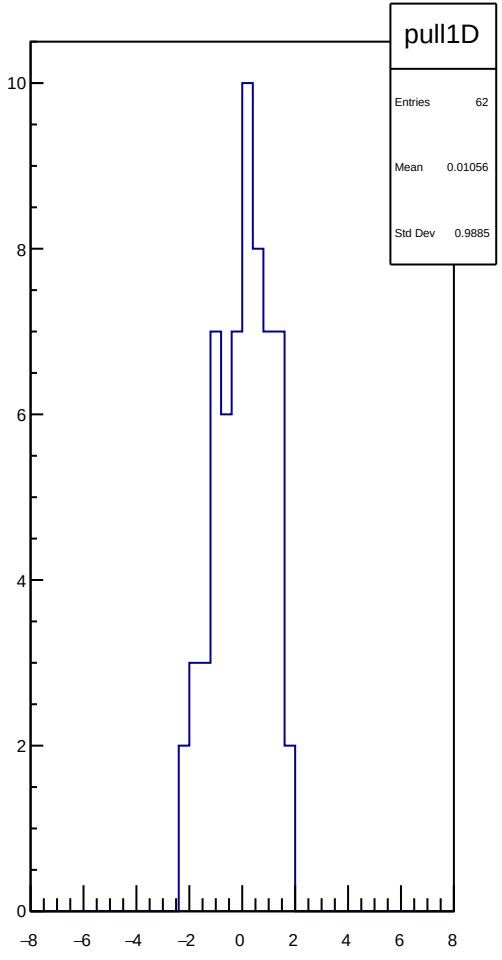

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.87 / 61
p0 0.1366 ± 0.3391
pull
Entries 62
Mean −47.61
Std Dev 48.36

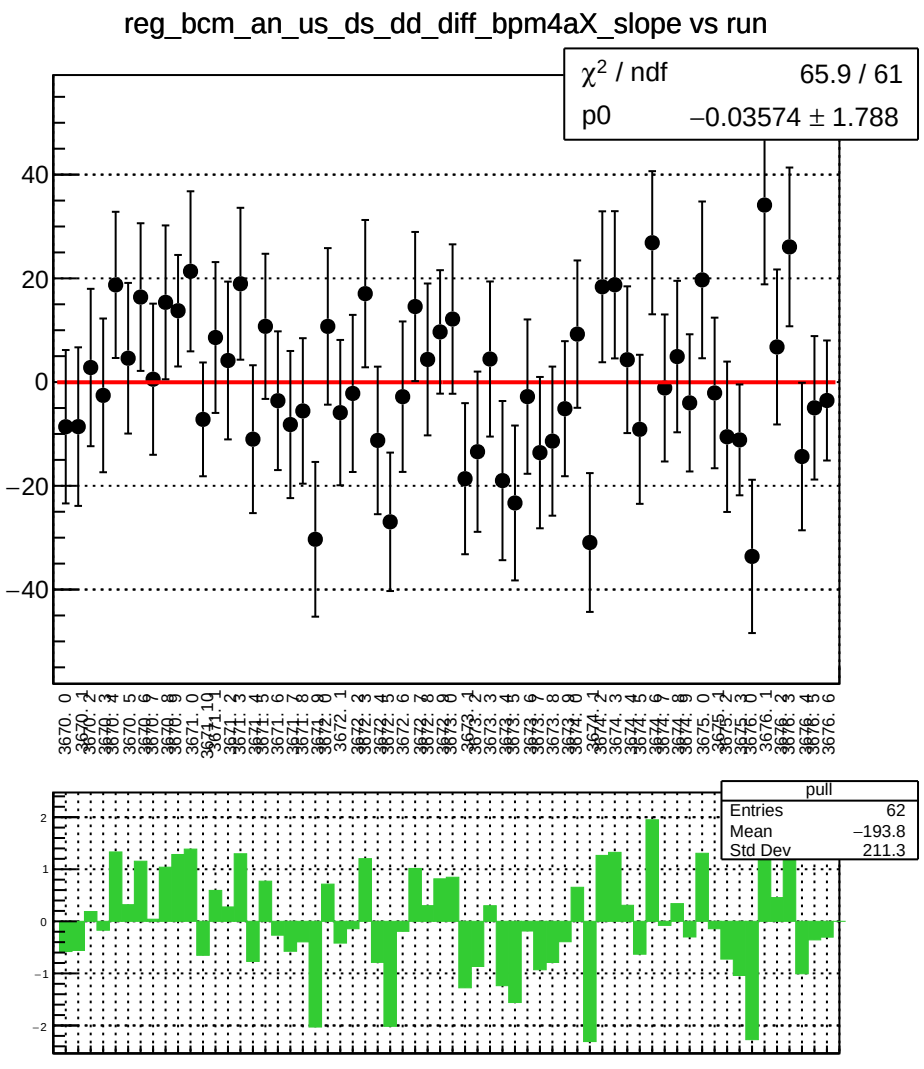

pull1D
Entries 62
Mean −0.007667
Std Dev 0.9058

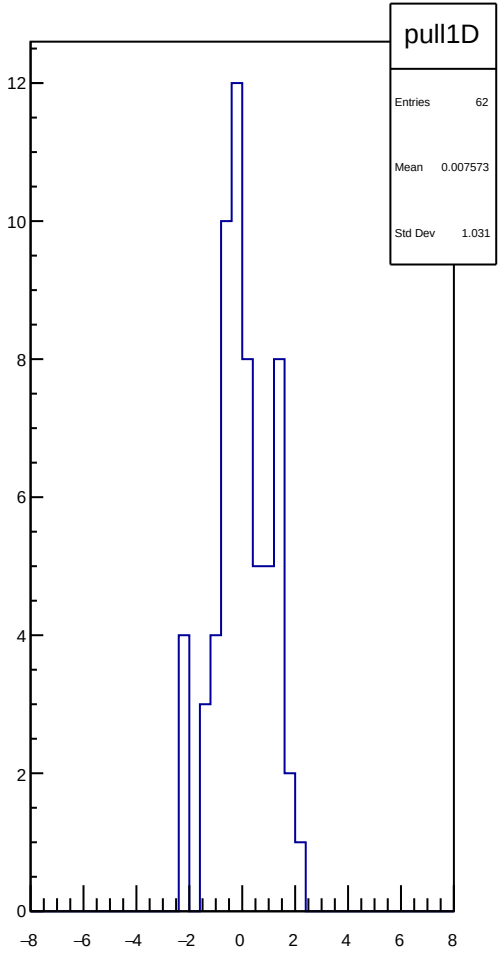

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.54 / 61
p0 0.07985 ± 2.157
pull
Entries 62
Mean −122.8
Std Dev 164.5

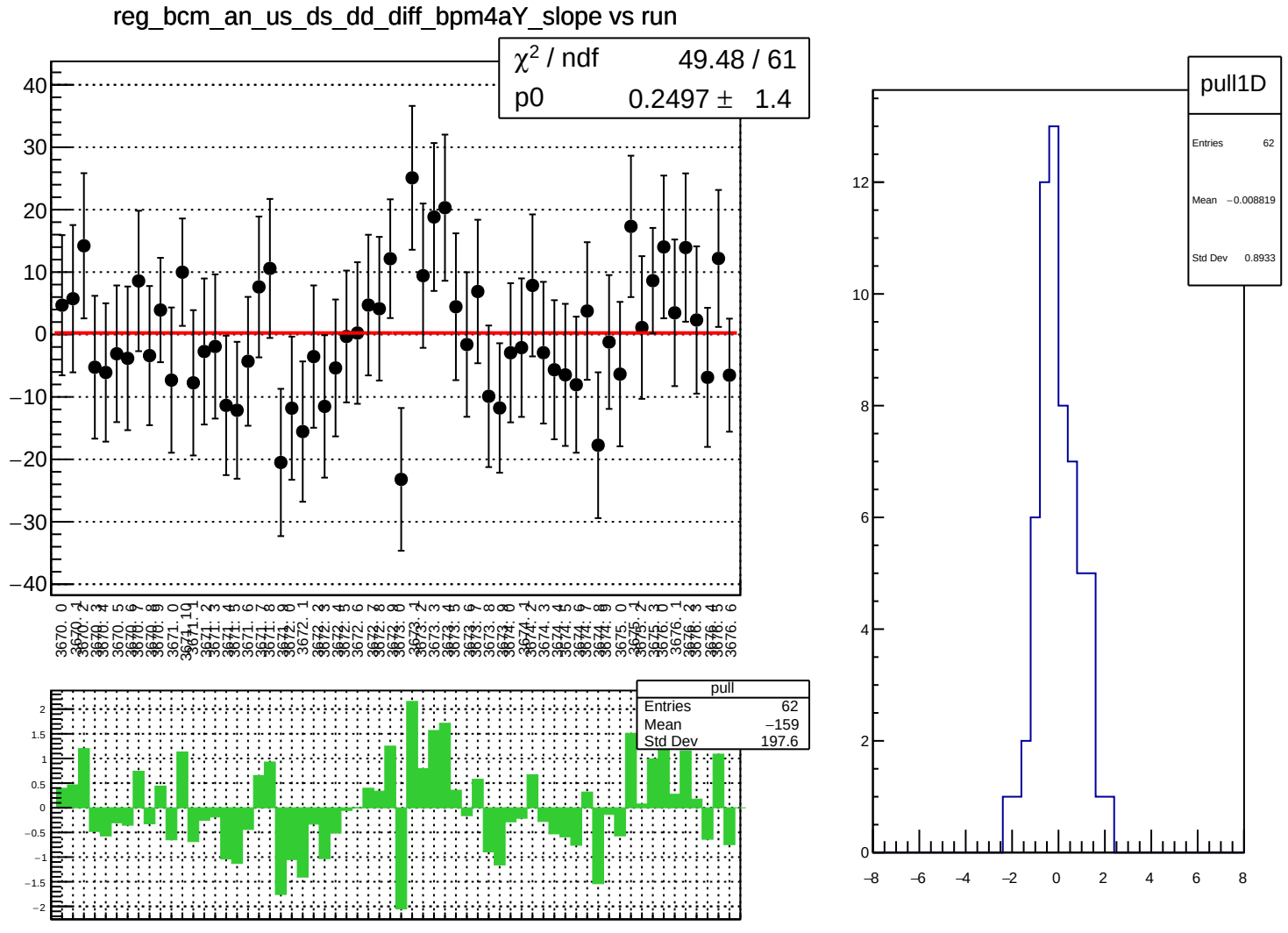

pull1D
Entries 62
Mean 0.008497
Std Dev 0.9205

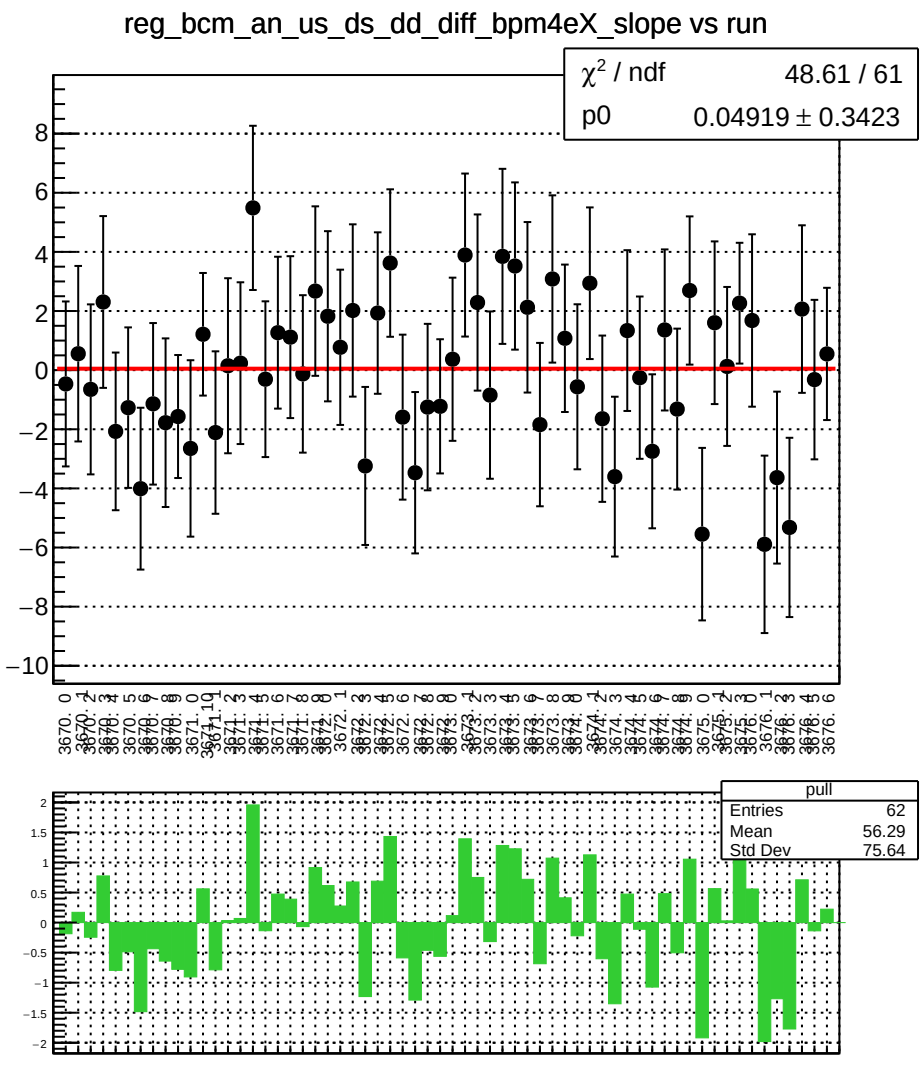

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 60.59 / 61
p0 0.2893 ± 0.3293
pull
Entries 62
Mean 19.34
Std Dev 74.15

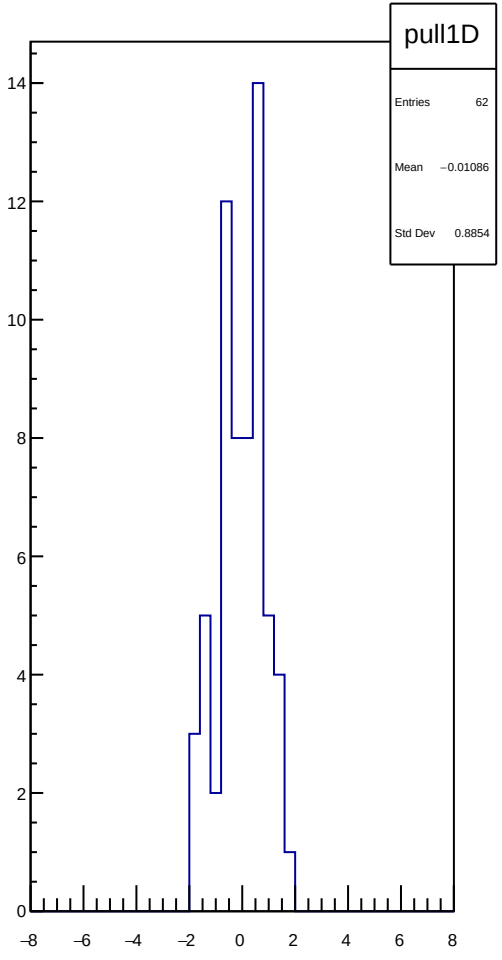

pull1D
Entries 62
Mean 0.01056
Std Dev 0.9885

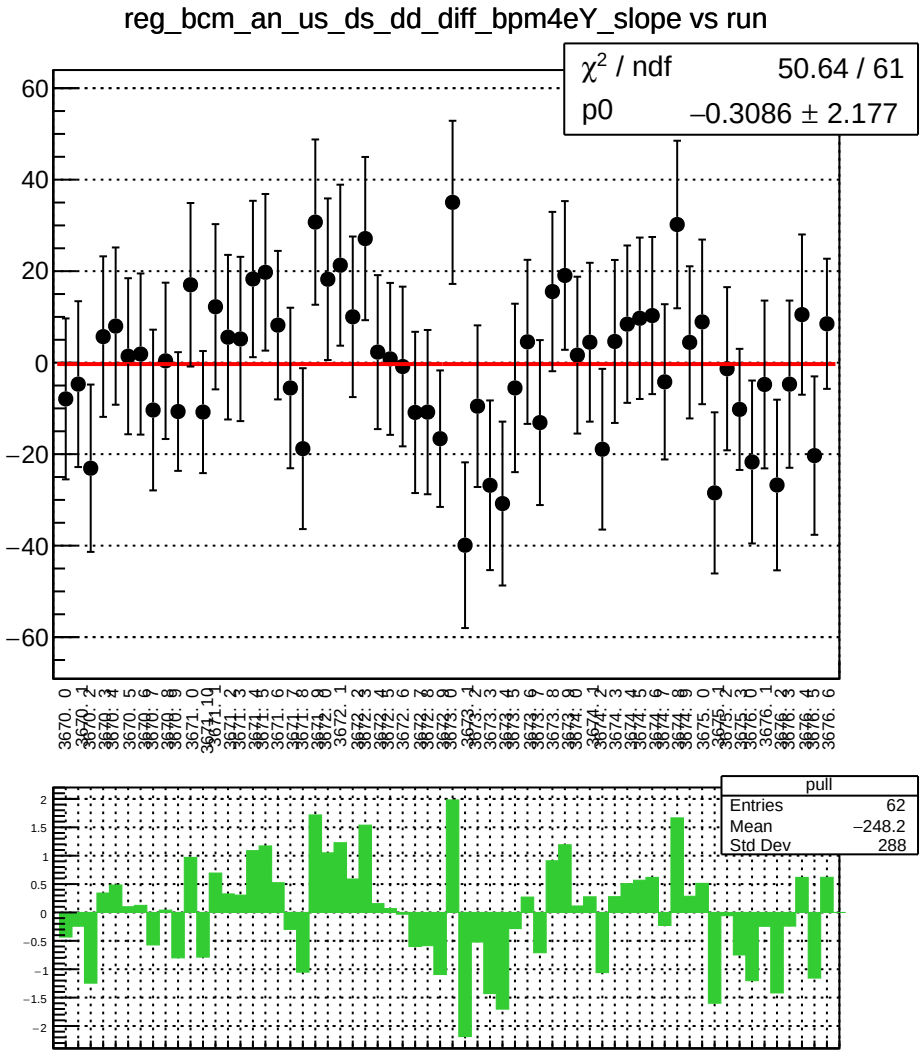

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 65.9 / 61
p0 −0.03574 ± 1.788
pull
Entries 62
Mean −193.8
Std Dev 211.3

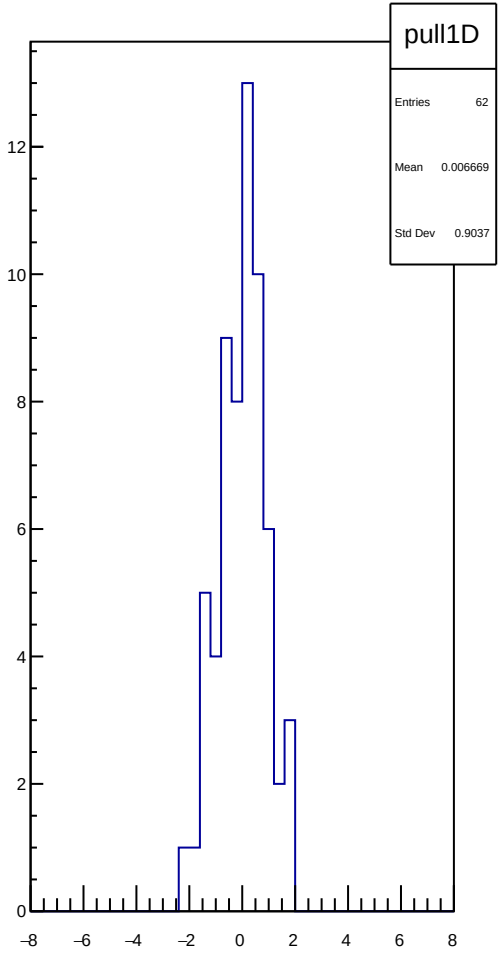

pull1D
Entries 62
Mean 0.007573
Std Dev 1.031

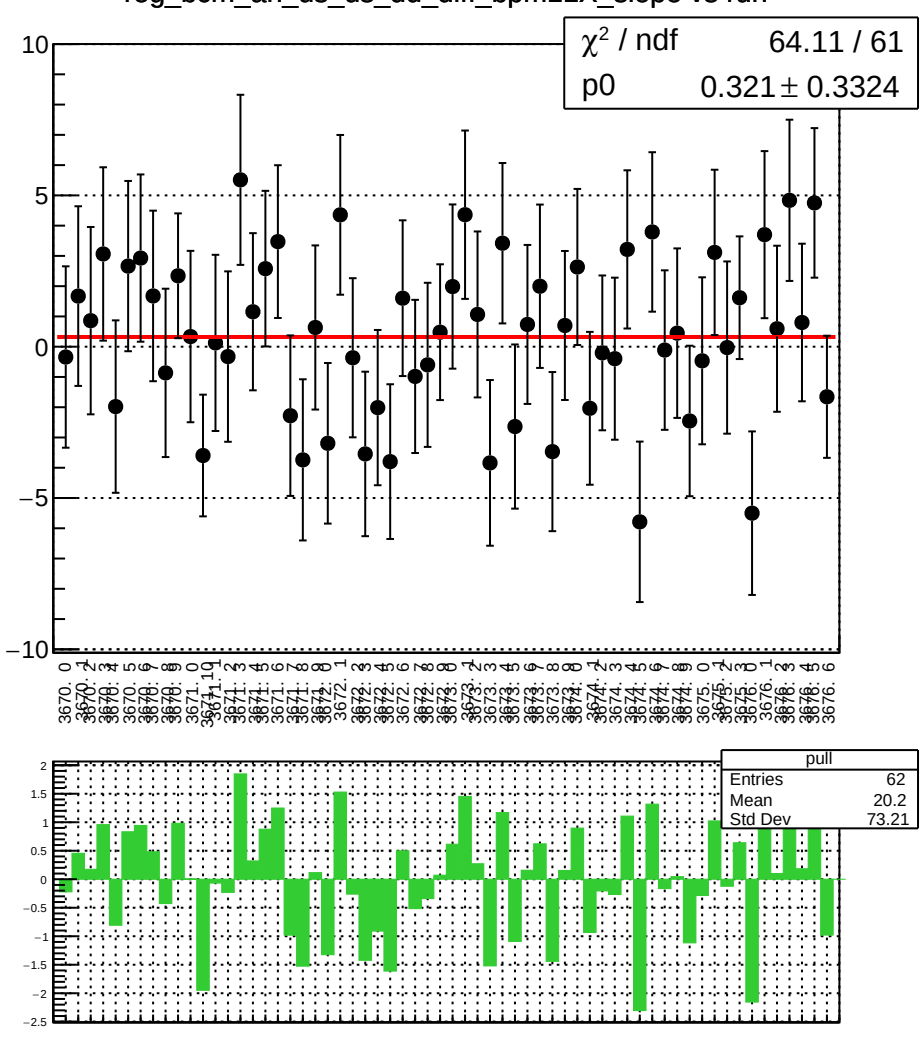

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.48 / 61
p0 0.2497 ± 1.4
pull
Entries 62
Mean −159
Std Dev 197.6
pull1D
Entries 62
Mean −0.008819
Std Dev 0.8933

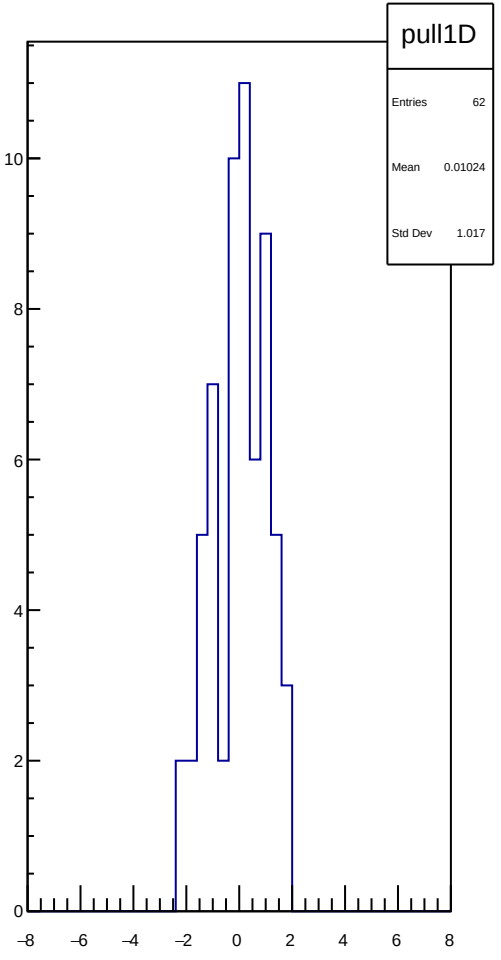

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.61 / 61
p0 0.04919 ± 0.3423
pull
Entries 62
Mean 56.29
Std Dev 75.64

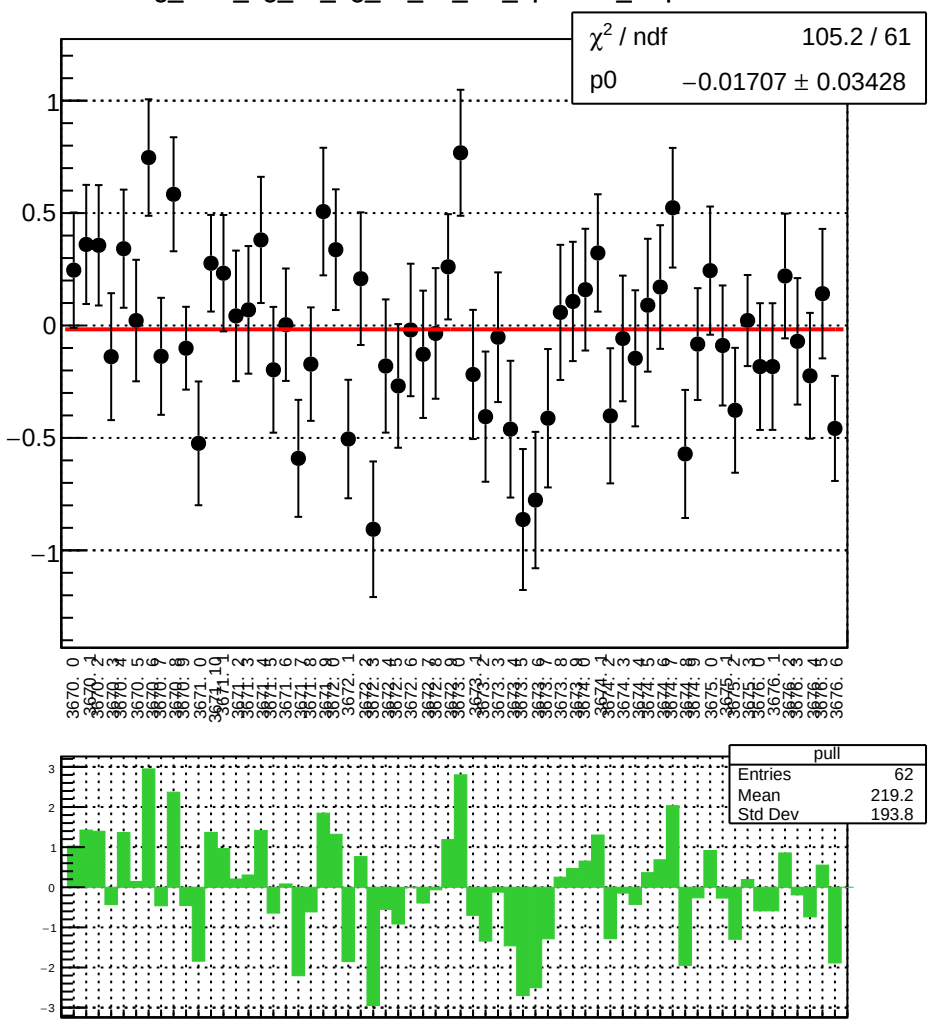

pull1D
Entries 62
Mean −0.01086
Std Dev 0.8854

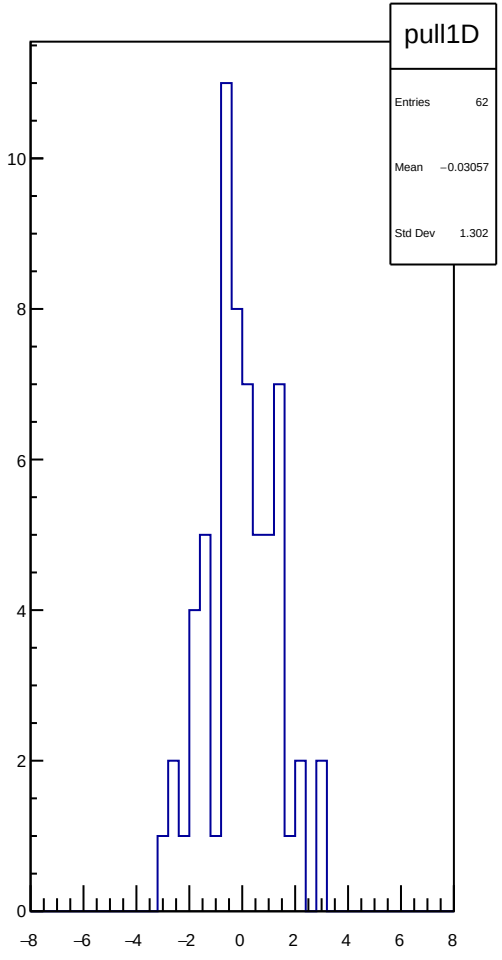

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.64 / 61
p0 −0.3086 ± 2.177
pull
Entries 62
Mean −248.2
Std Dev 288

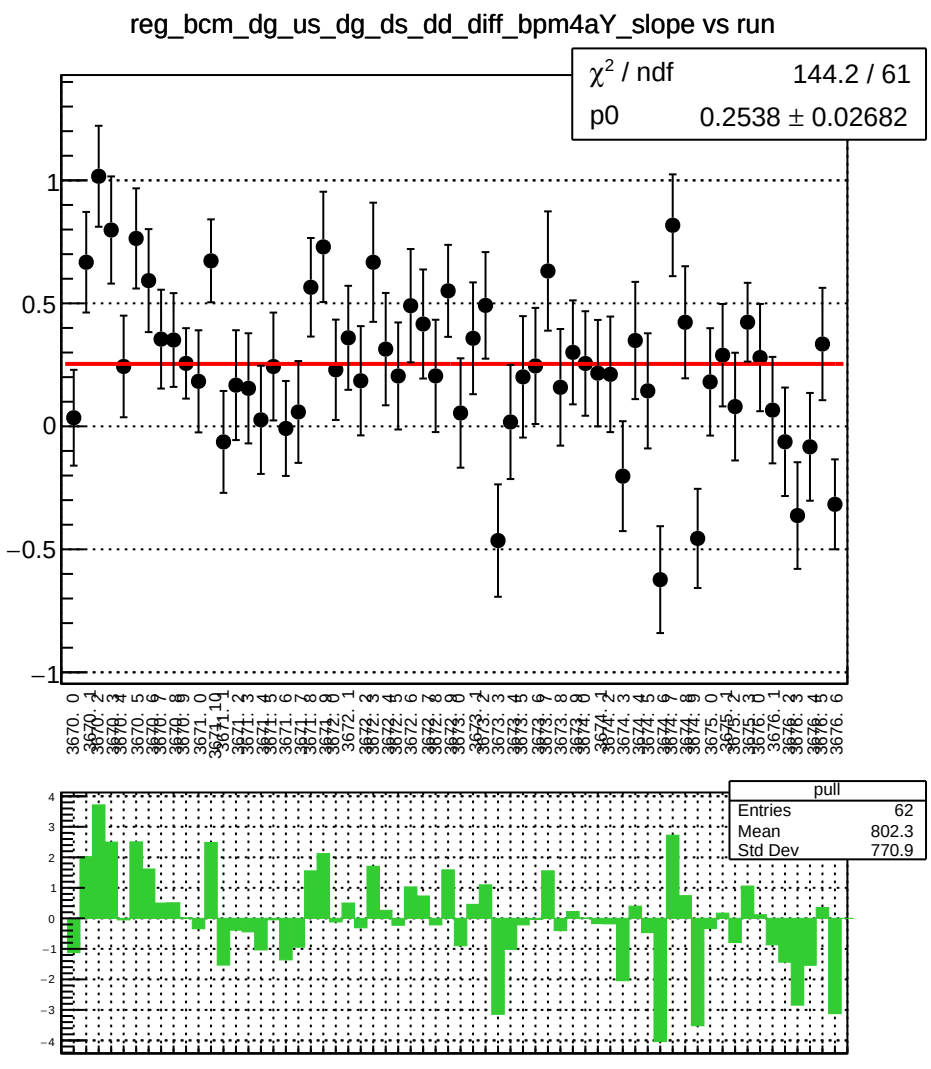

pull1D
Entries 62
Mean 0.006669
Std Dev 0.9037

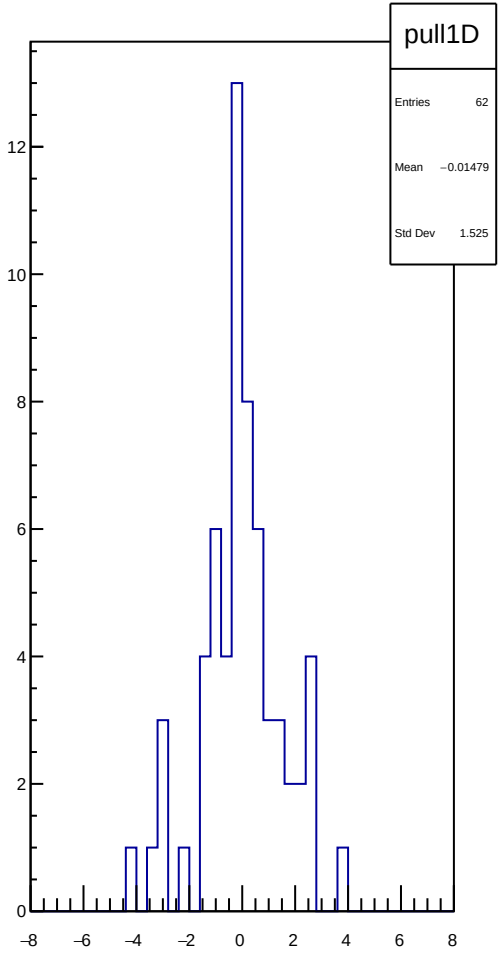

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 64.11 / 61
p0 0.321 ± 0.3324
pull
Entries 62
Mean 20.2
Std Dev 73.21

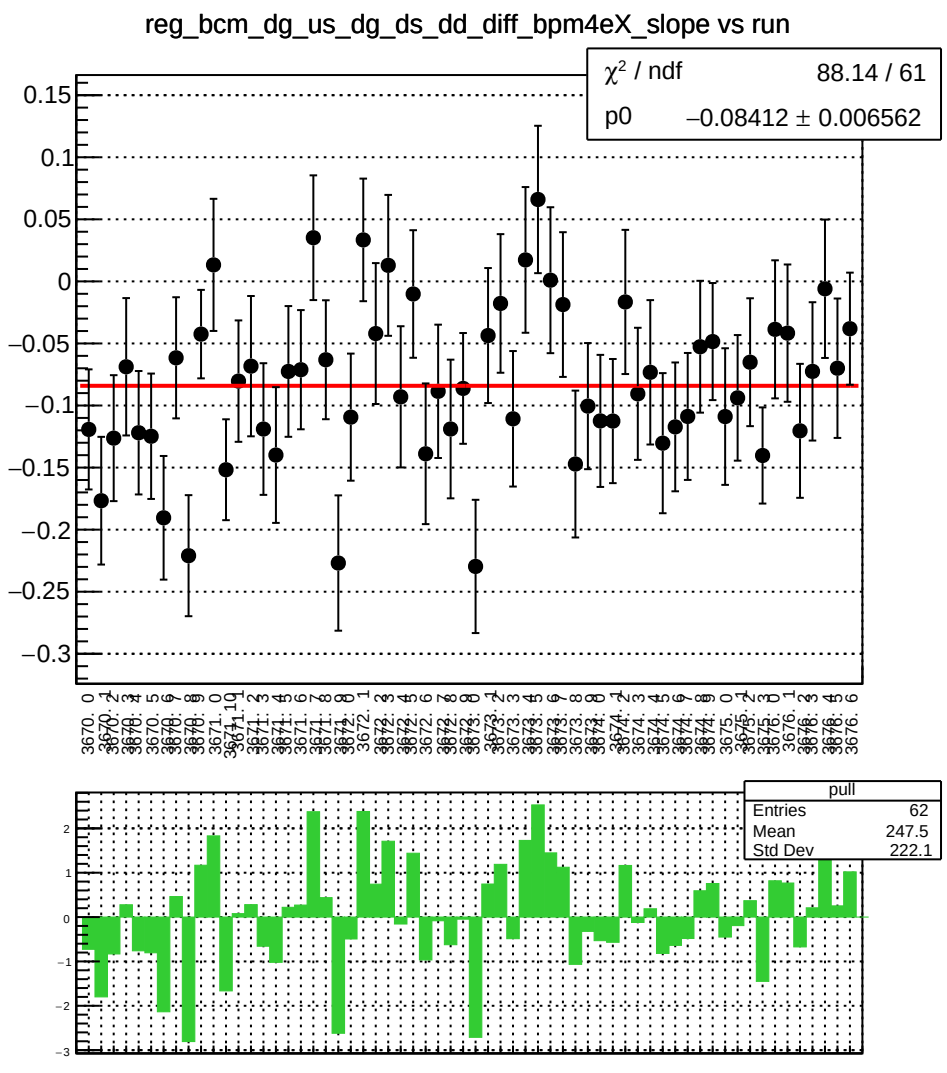

pull1D
Entries 62
Mean 0.01024
Std Dev 1.017

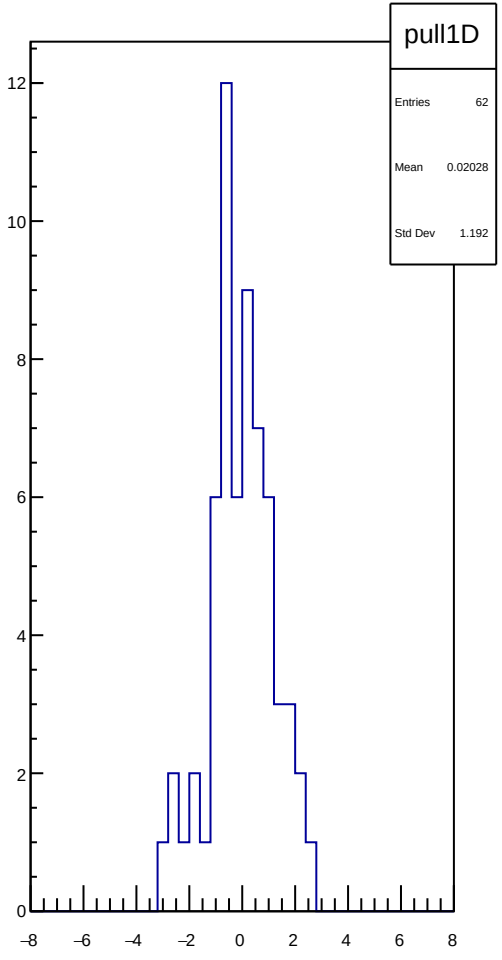

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 105.2 / 61
p0 −0.01707 ± 0.03428
pull
Entries 62
Mean 219.2
Std Dev 193.8

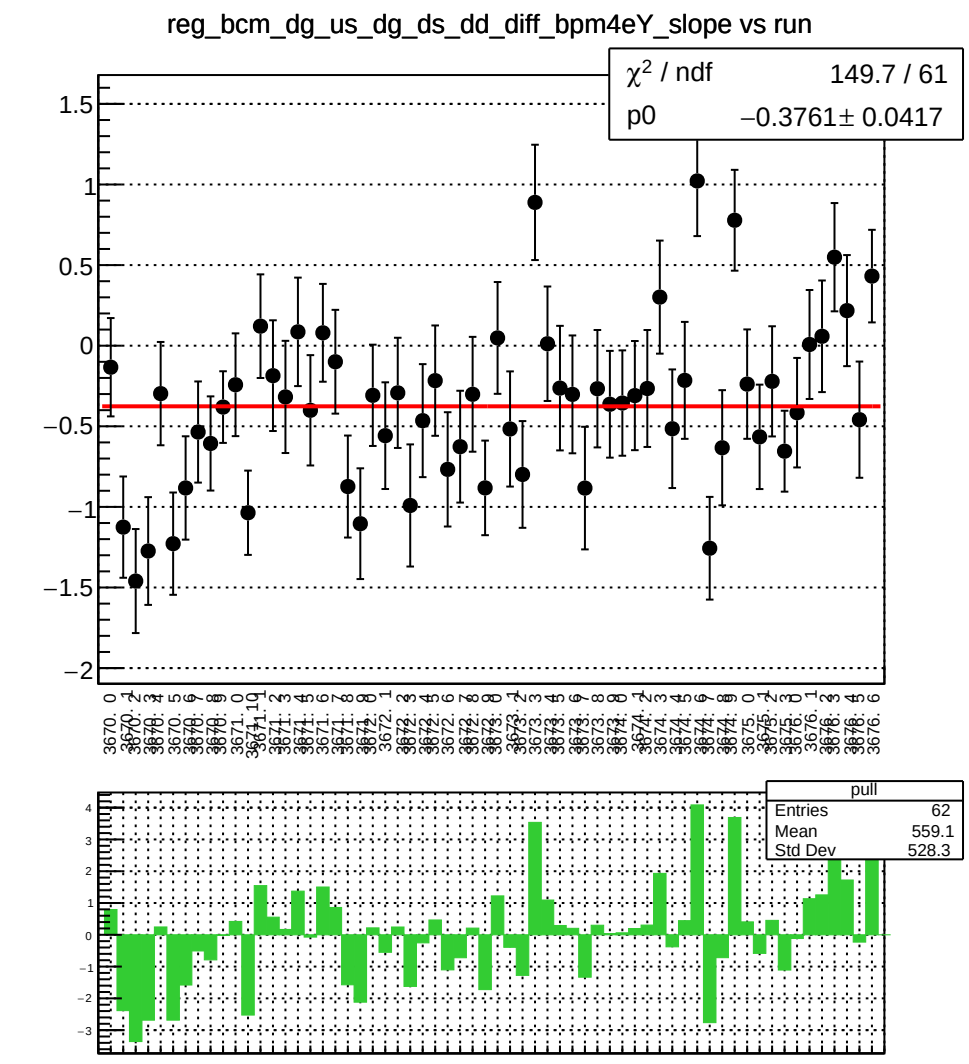

pull1D
Entries 62
Mean −0.03057
Std Dev 1.302

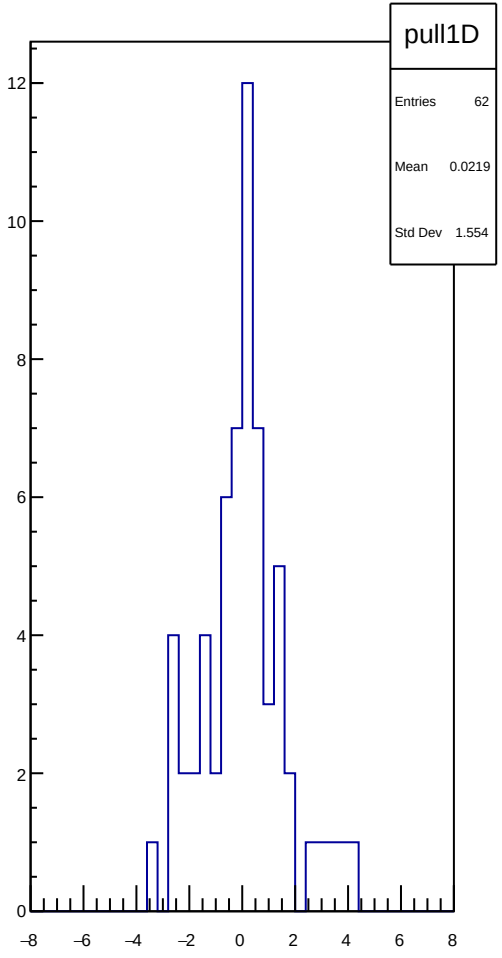

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 144.2 / 61
p0 0.2538 ± 0.02682
pull
Entries 62
Mean 802.3
Std Dev 770.9

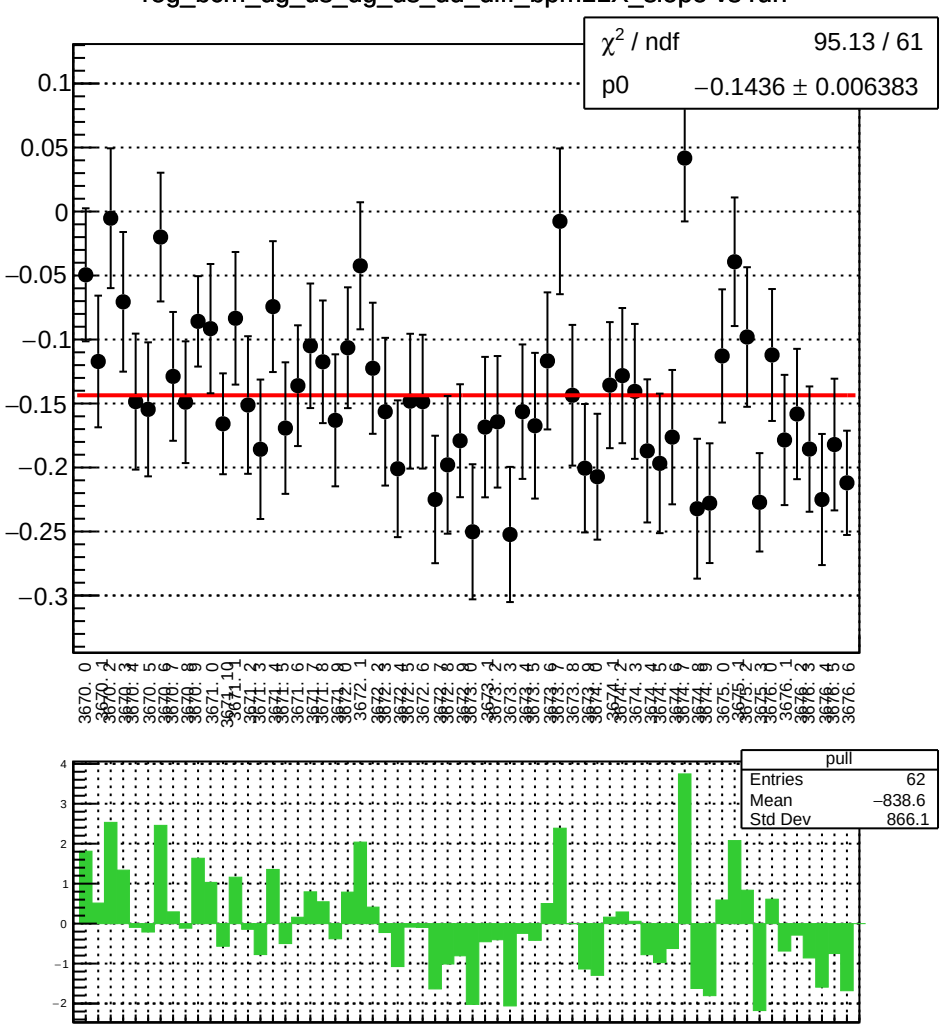

pull1D
Entries 62
Mean −0.01479
Std Dev 1.525

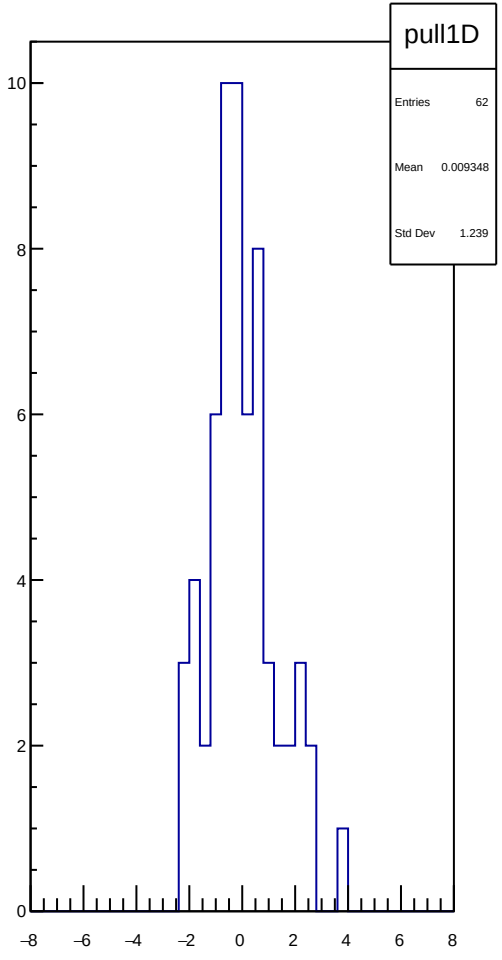

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.14 / 61
p0 −0.08412 ± 0.006562
pull
Entries 62
Mean 247.5
Std Dev 222.1

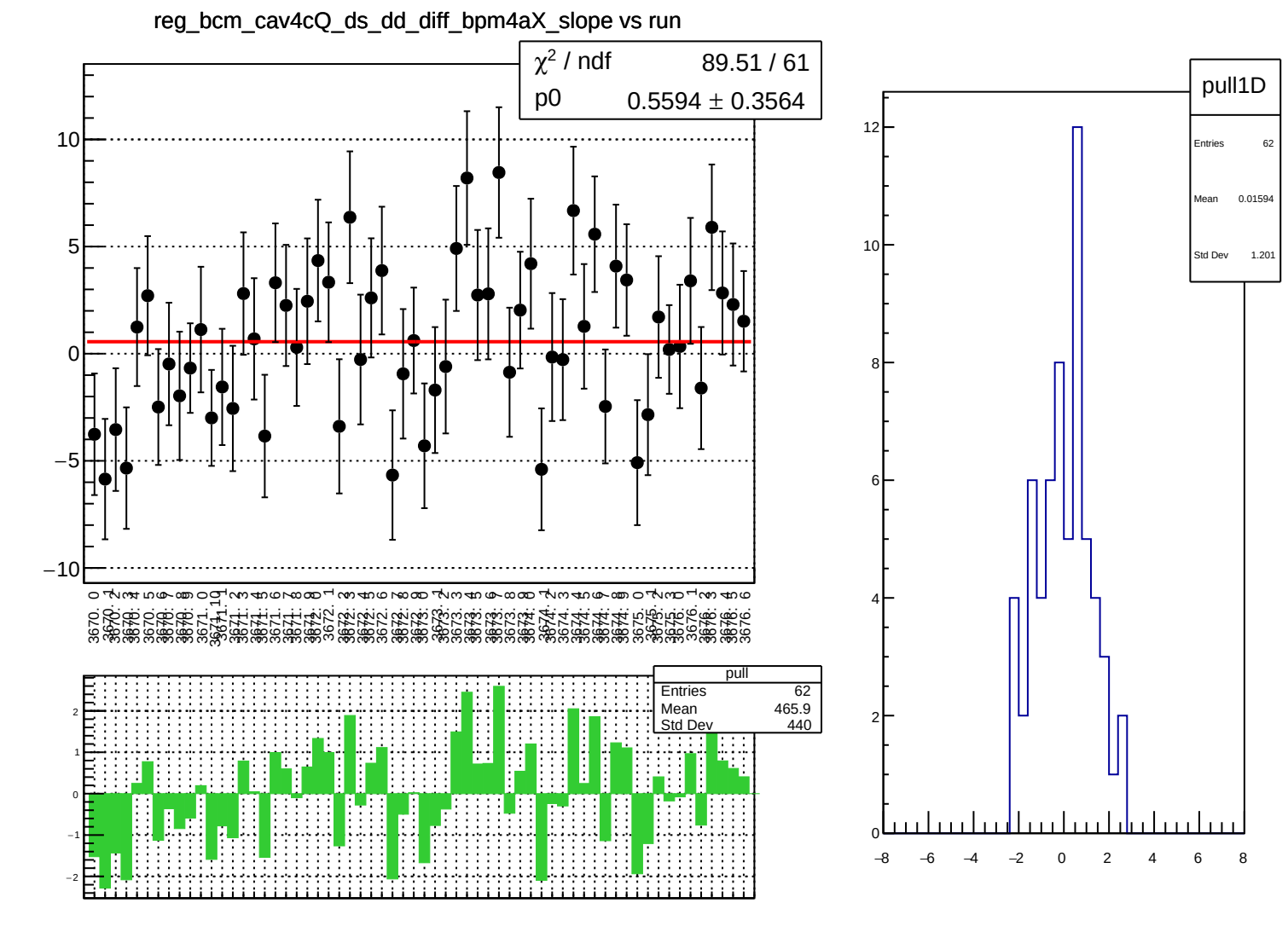

pull1D
Entries 62
Mean 0.02028
Std Dev 1.192

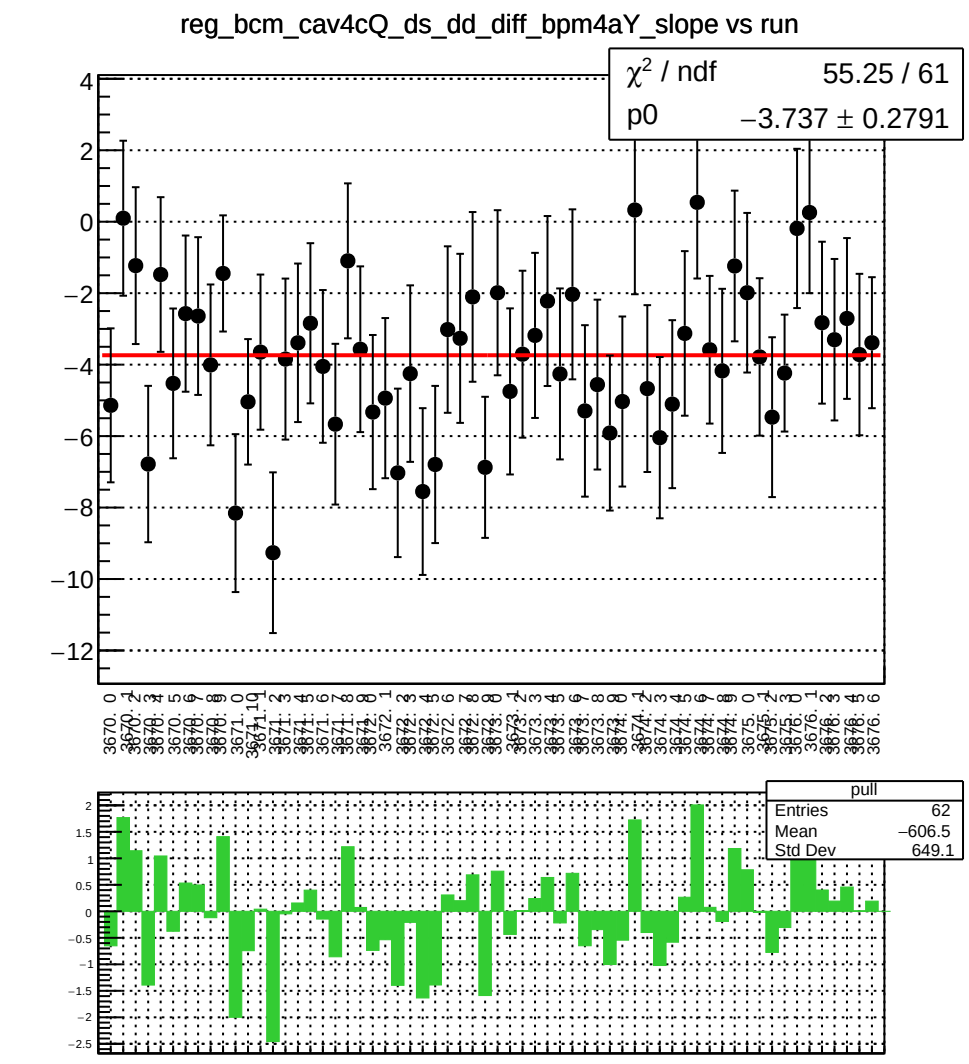

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 149.7 / 61
p0 −0.3761± 0.0417
pull
Entries 62
Mean 559.1
Std Dev 528.3

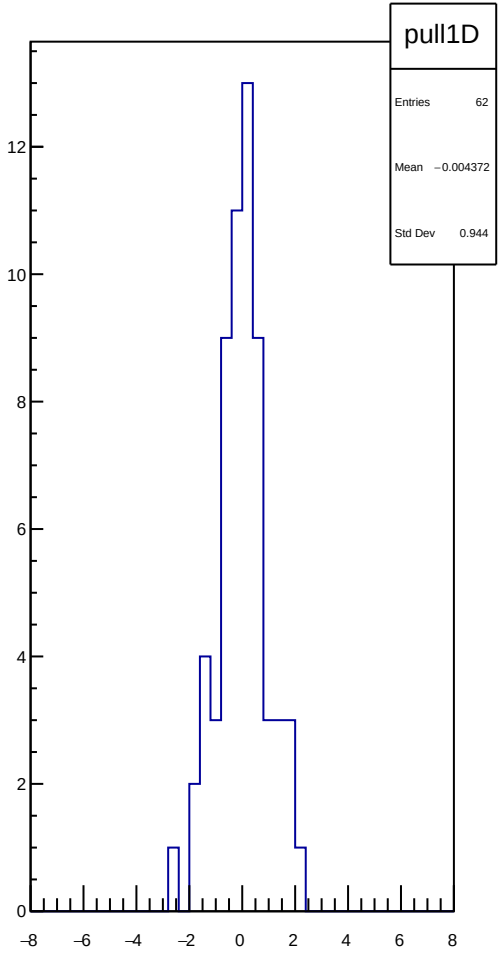

pull1D
Entries 62
Mean 0.0219
Std Dev 1.554

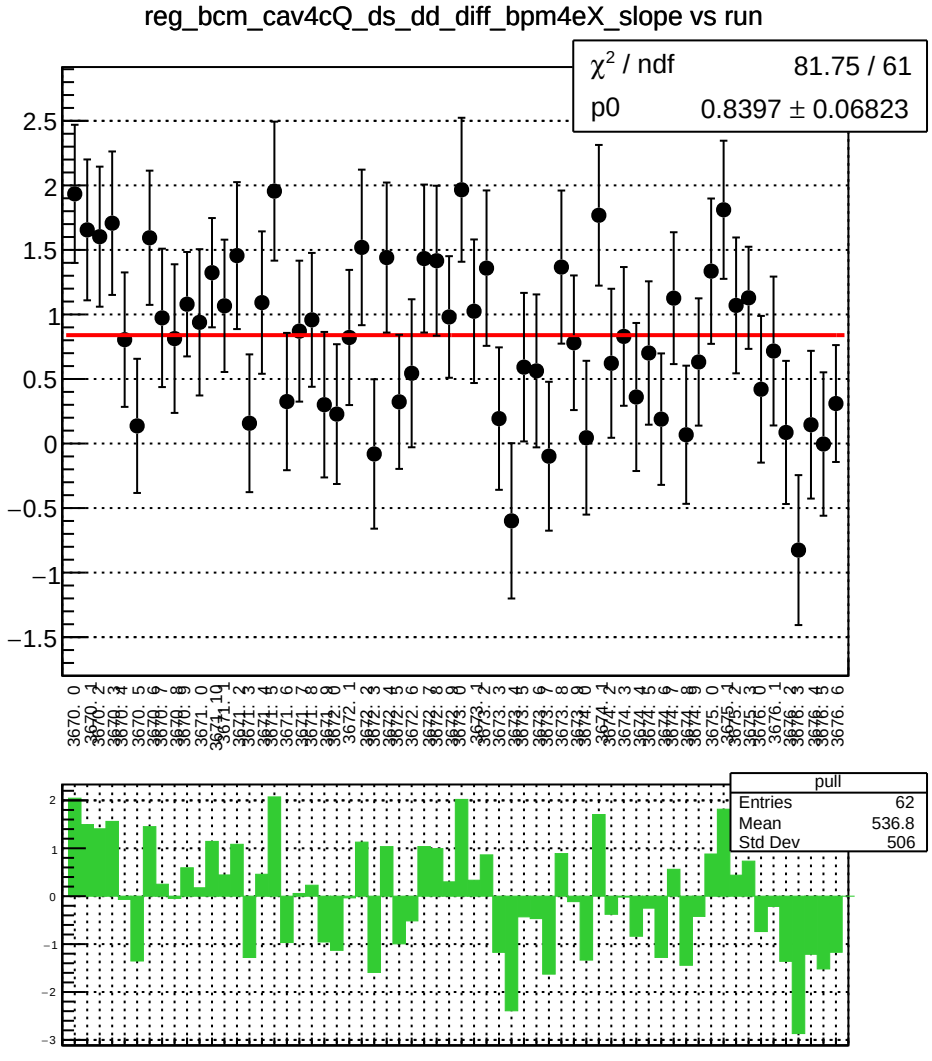

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 95.13 / 61
p0 −0.1436 ± 0.006383
pull
Entries 62
Mean −838.6
Std Dev 866.1

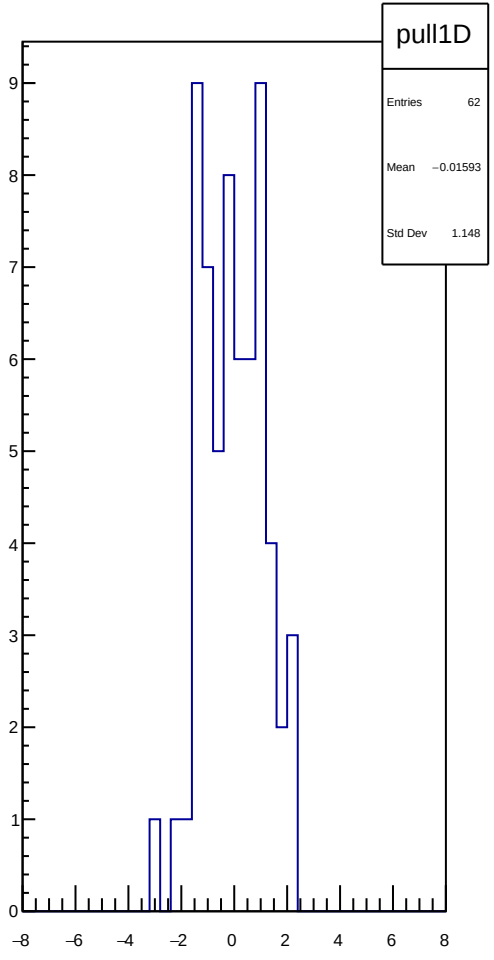

pull1D
Entries 62
Mean 0.009348
Std Dev 1.239

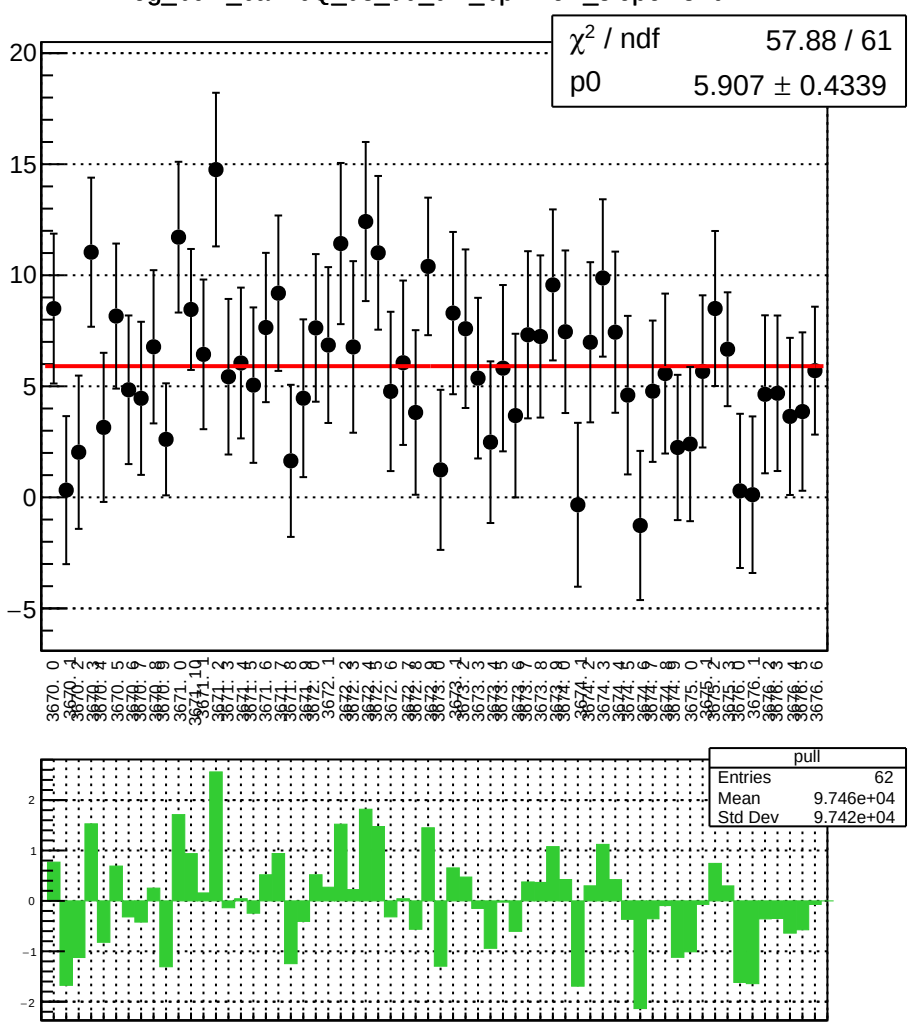

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 89.51 / 61
p0 0.5594 ± 0.3564
pull
Entries 62
Mean 465.9
Std Dev 440
pull1D
Entries 62
Mean 0.01594
Std Dev 1.201

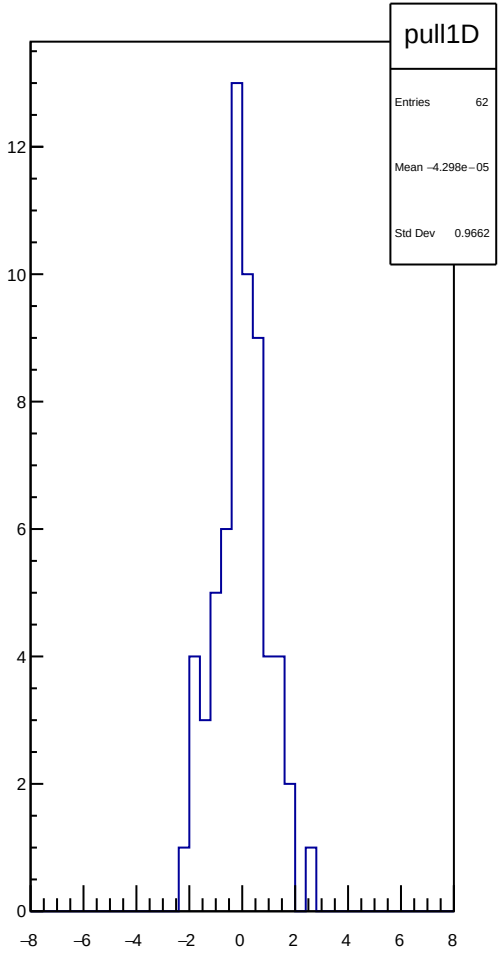

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.25 / 61
p0 −3.737 ± 0.2791
pull
Entries 62
Mean −606.5
Std Dev 649.1

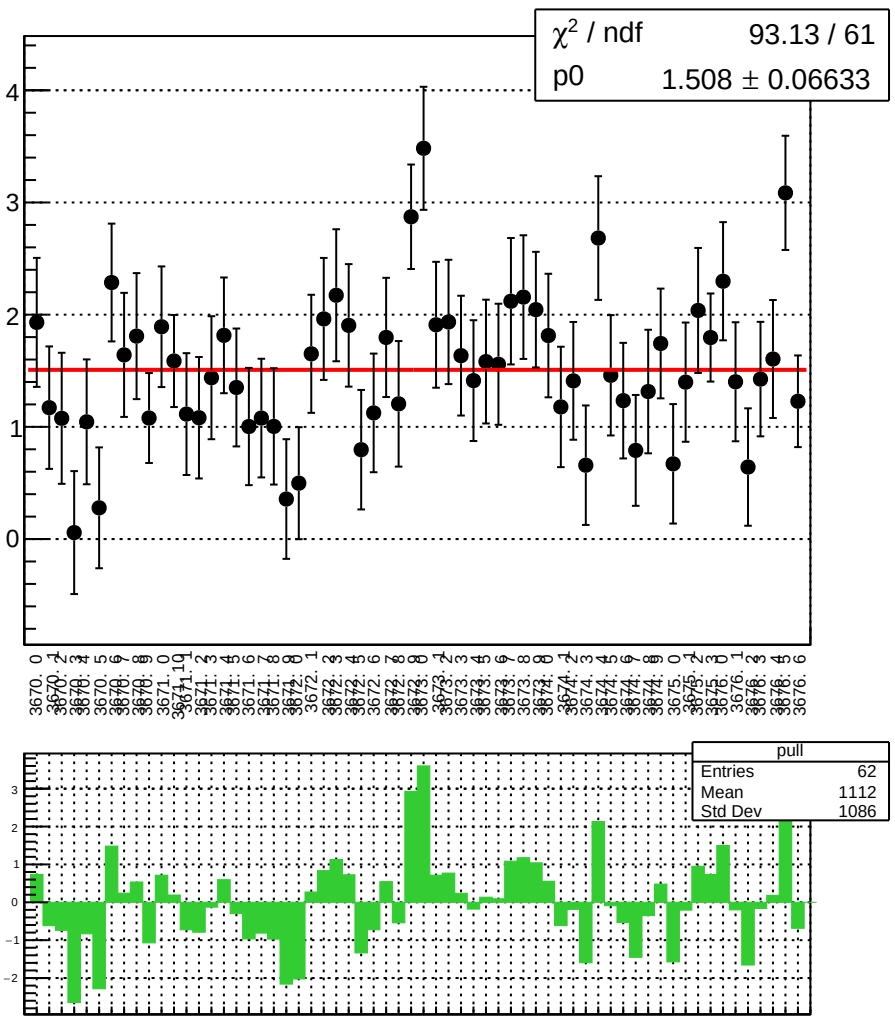

pull1D
Entries 62
Mean −0.004372
Std Dev 0.944

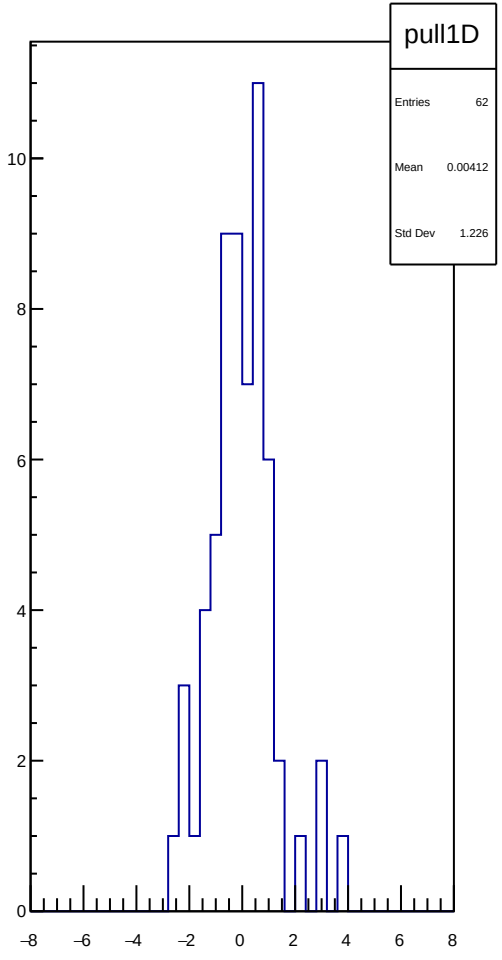

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.75 / 61
p0 0.8397 ± 0.06823
pull
Entries 62
Mean 536.8
Std Dev 506

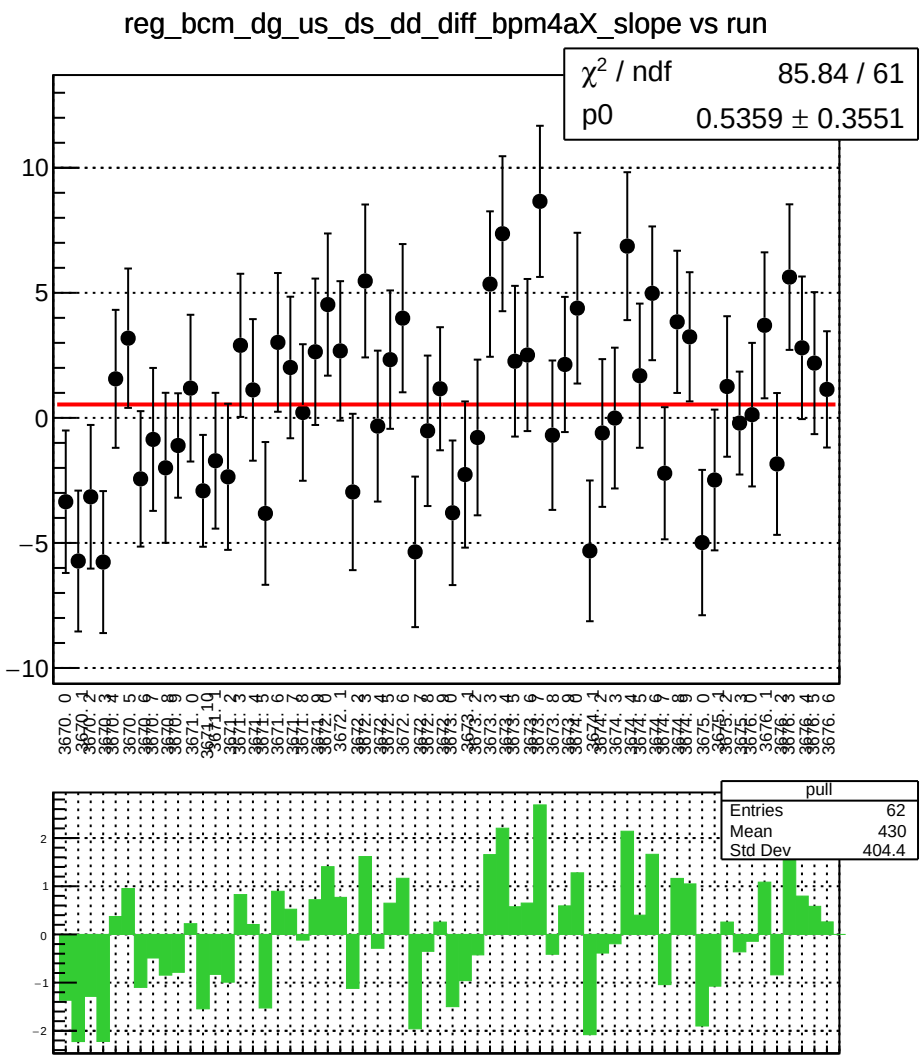

pull1D
Entries 62
Mean −0.01593
Std Dev 1.148

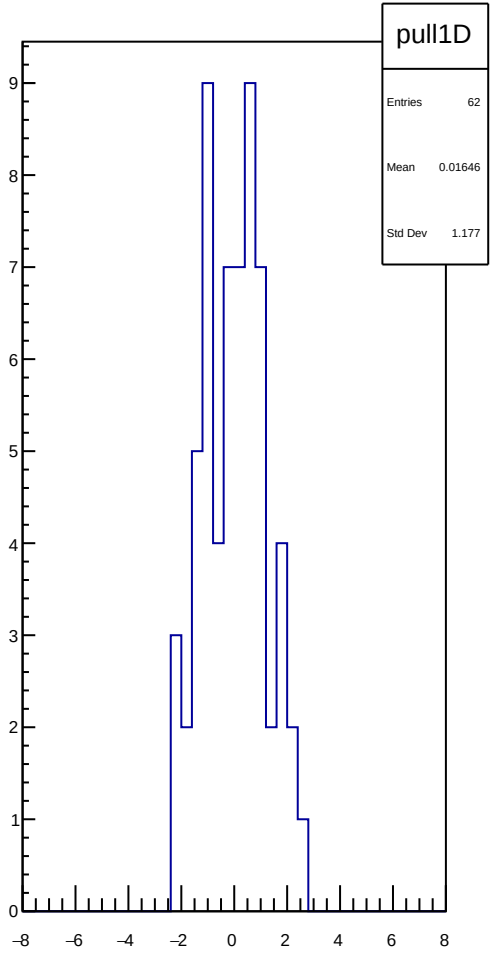

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.88 / 61
p0 5.907 ± 0.4339
pull
Entries 62
Mean 9.746e+04
Std Dev 9.742e+04

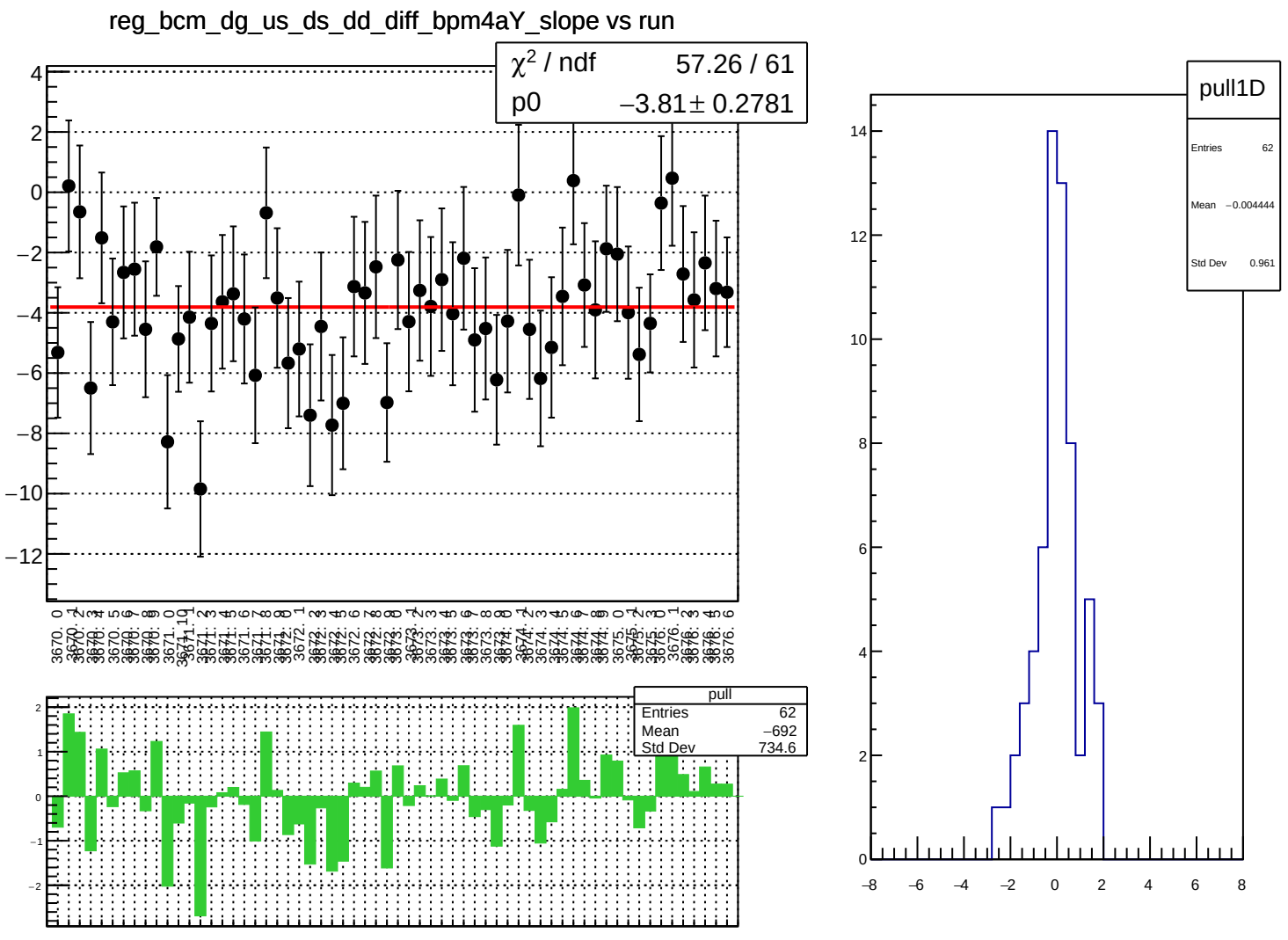

pull1D
Entries 62
Mean −4.298e−05
Std Dev 0.9662

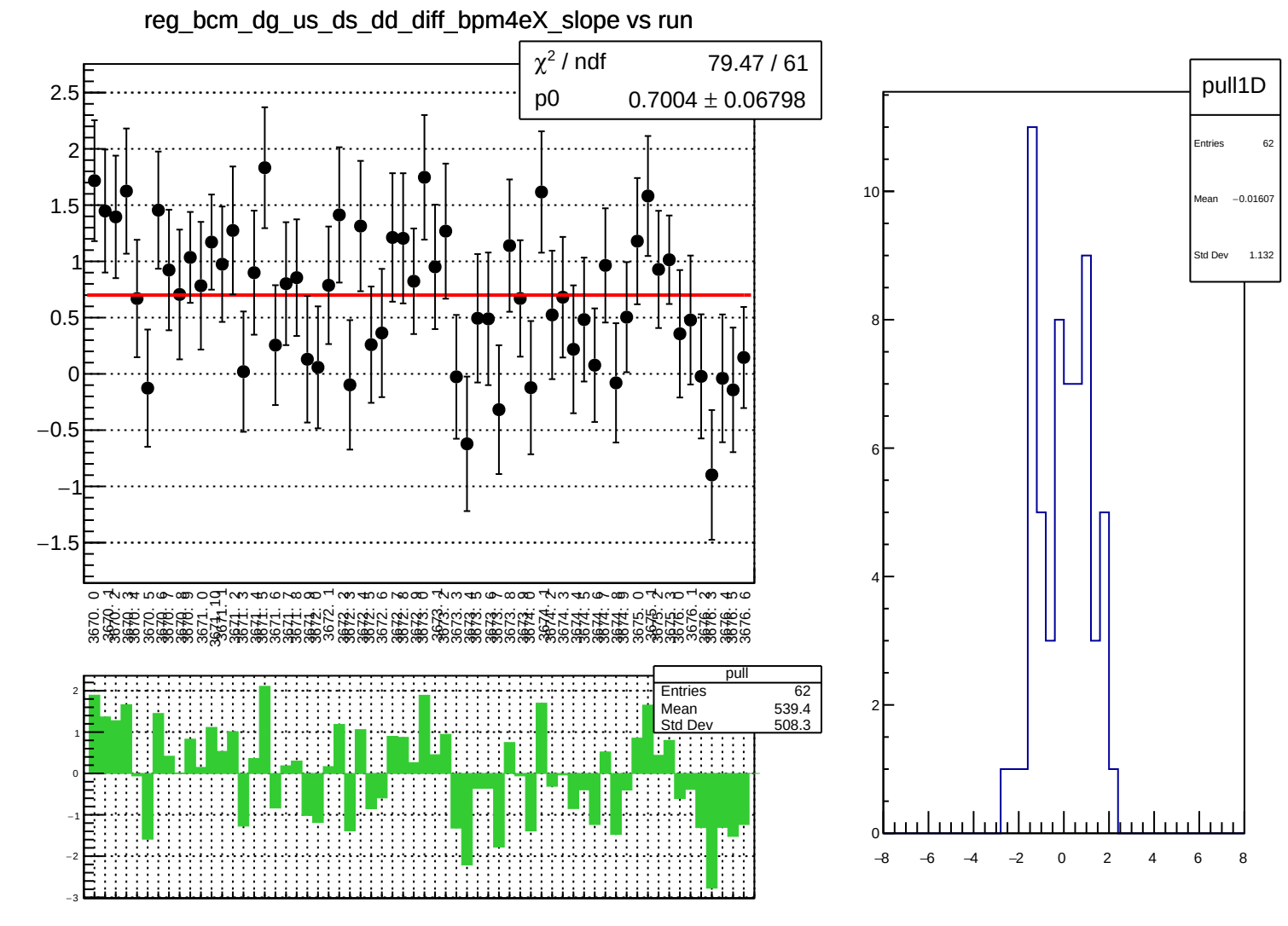

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 93.13 / 61
p0 1.508 ± 0.06633
pull
Entries 62
Mean 1112
Std Dev 1086

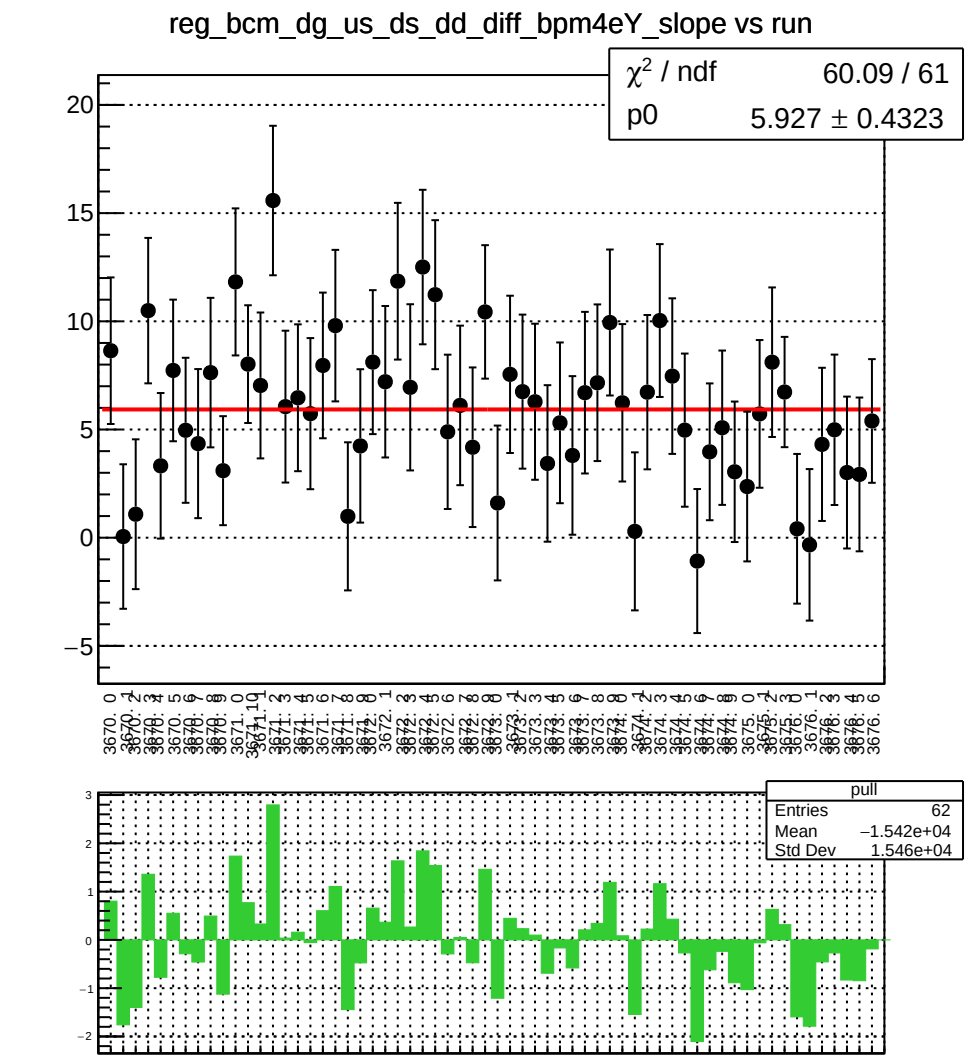

pull1D
Entries 62
Mean 0.00412
Std Dev 1.226

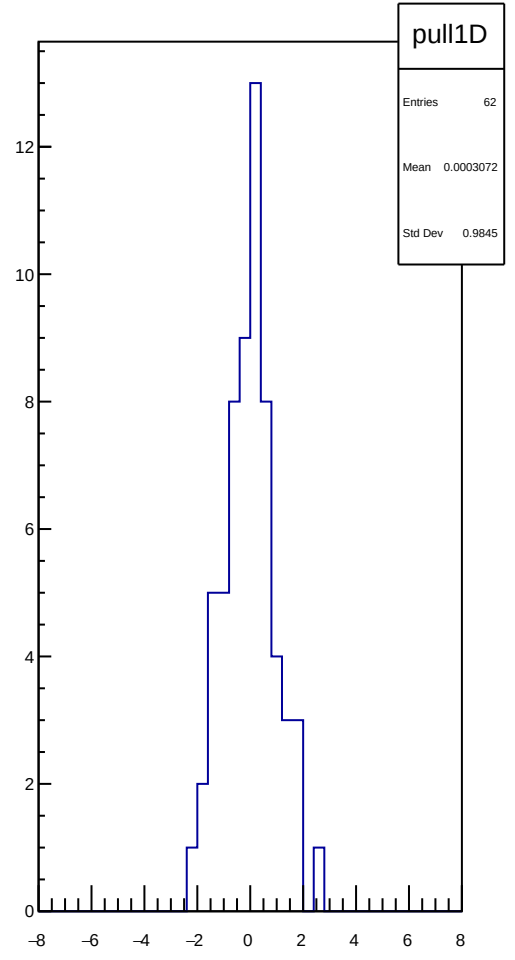

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 85.84 / 61
p0 0.5359 ± 0.3551
pull
Entries 62
Mean 430
Std Dev 404.4

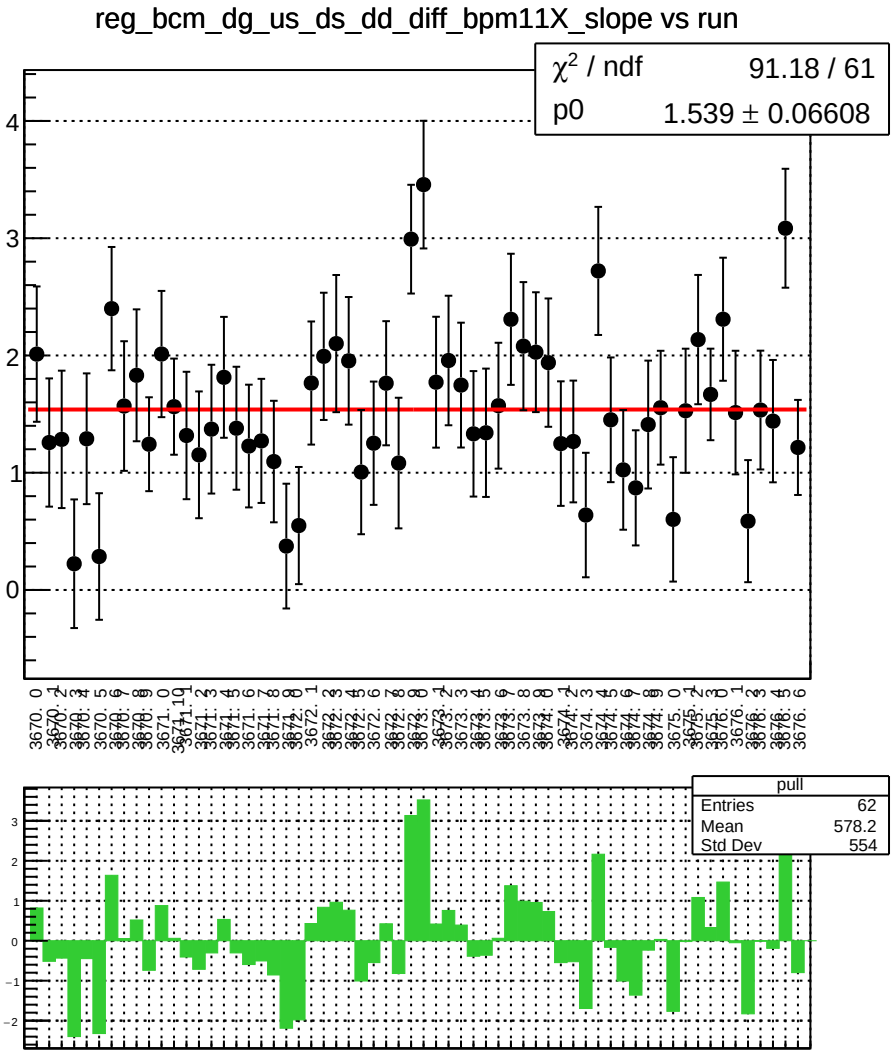

pull1D
Entries 62
Mean 0.01646
Std Dev 1.177

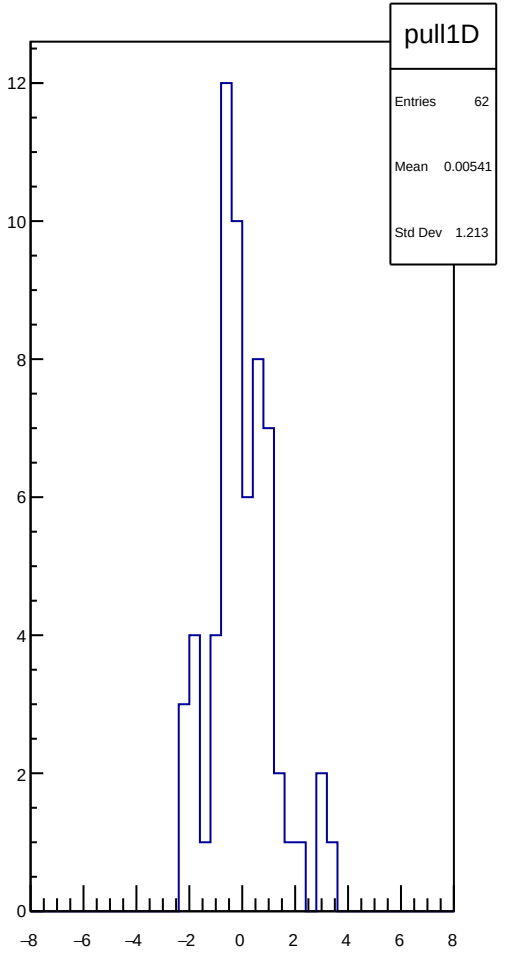

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.26 / 61
p0 −3.81 ± 0.2781
pull
Entries 62
Mean −692
Std Dev 734.6
pull1D
Entries 62
Mean −0.004444
Std Dev 0.961

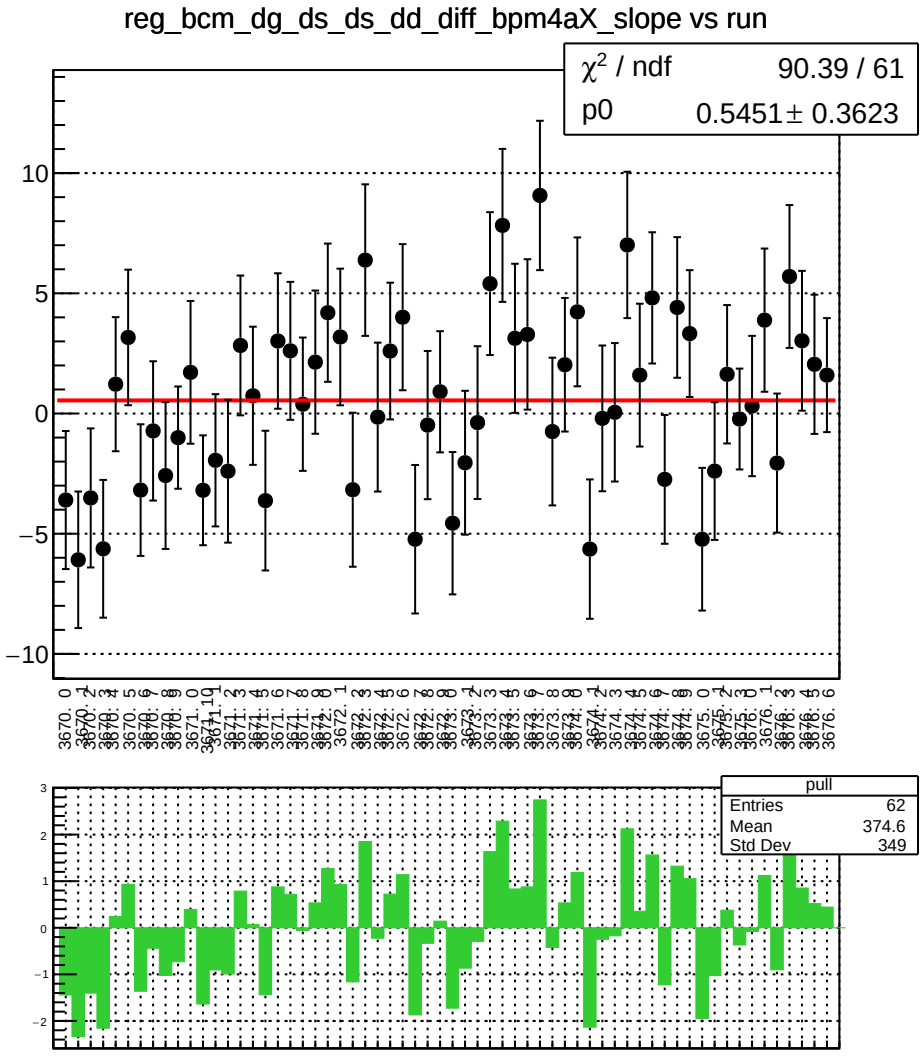

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.47 / 61
p0 0.7004 ± 0.06798
pull
Entries 62
Mean 539.4
Std Dev 508.3
pull1D
Entries 62
Mean −0.01607
Std Dev 1.132

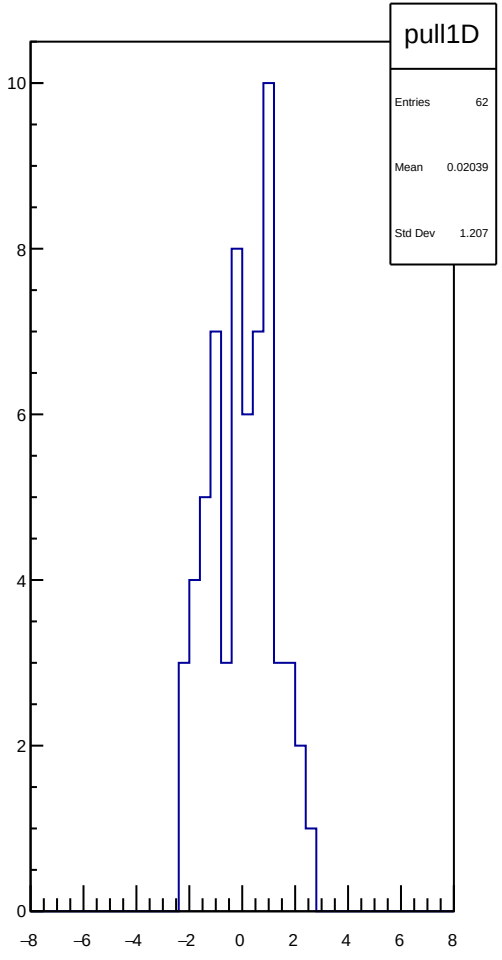

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.09 / 61
p0 5.927 ± 0.4323
pull
Entries 62
Mean −1.542e+04
Std Dev 1.546e+04

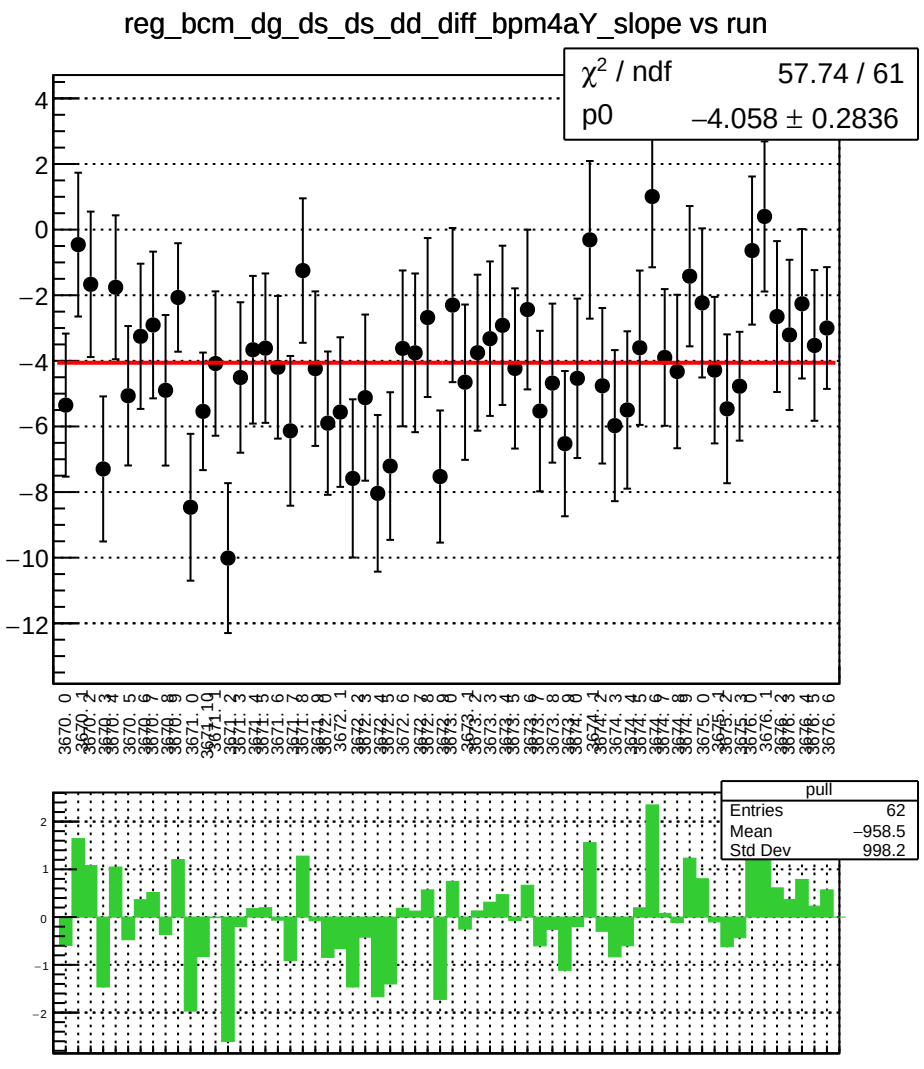

pull1D
Entries 62
Mean 0.0003072
Std Dev 0.9845

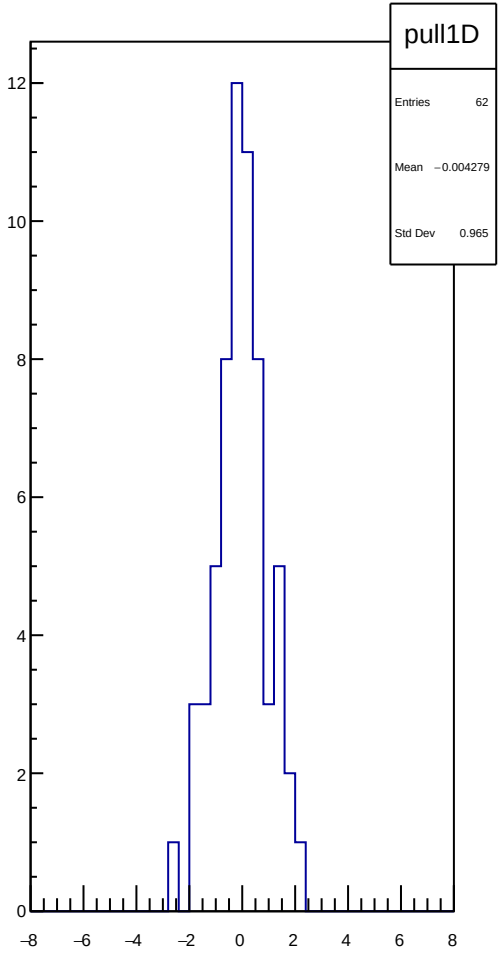

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 91.18 / 61
p0 1.539 ± 0.06608
pull
Entries 62
Mean 578.2
Std Dev 554

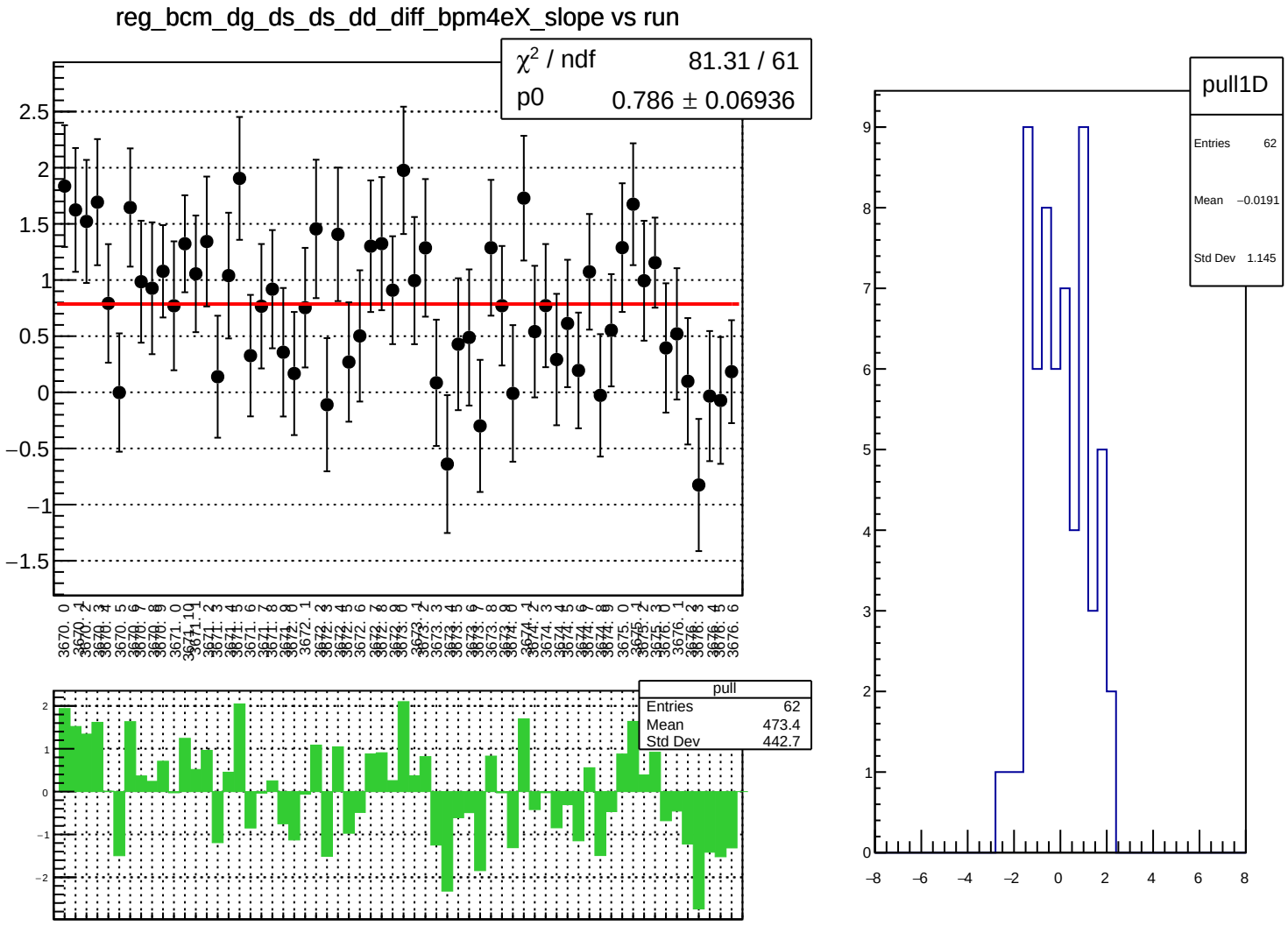

pull1D
Entries 62
Mean 0.00541
Std Dev 1.213

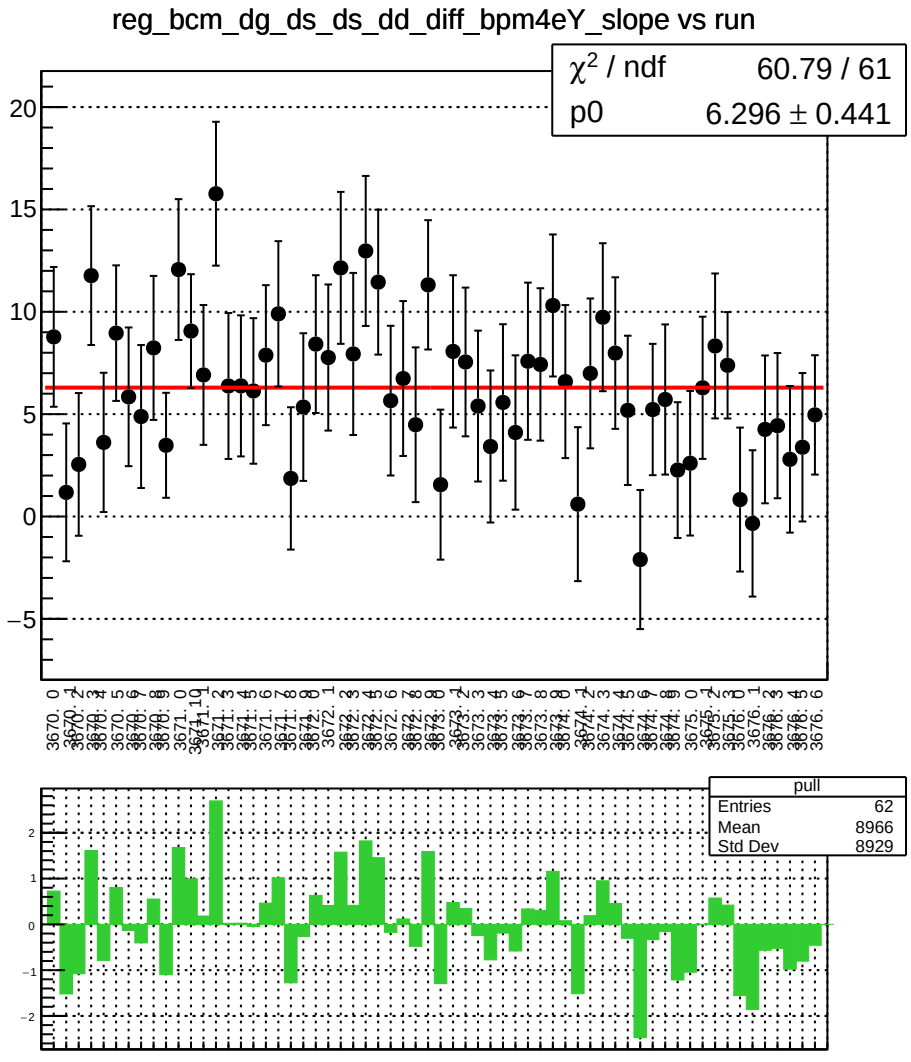

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 90.39 / 61
p0 0.5451± 0.3623
pull
Entries 62
Mean 374.6
Std Dev 349

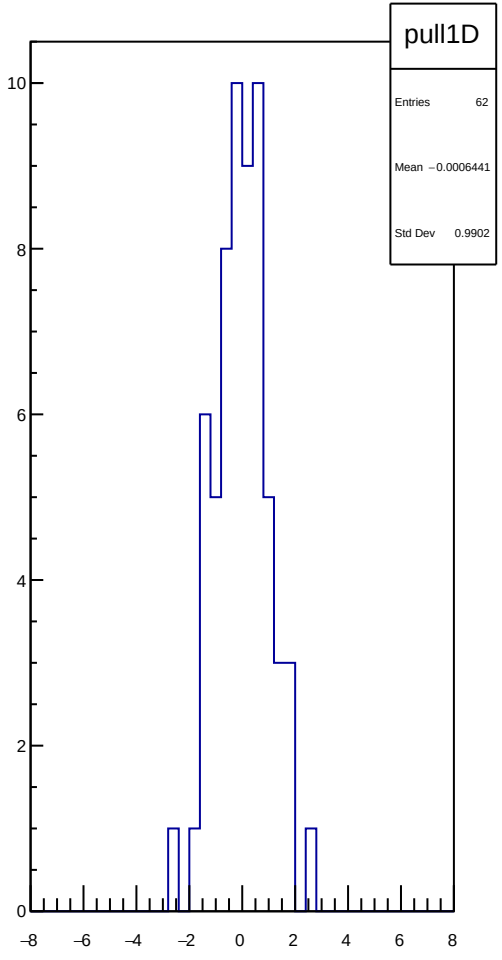

pull1D
Entries 62
Mean 0.02039
Std Dev 1.207

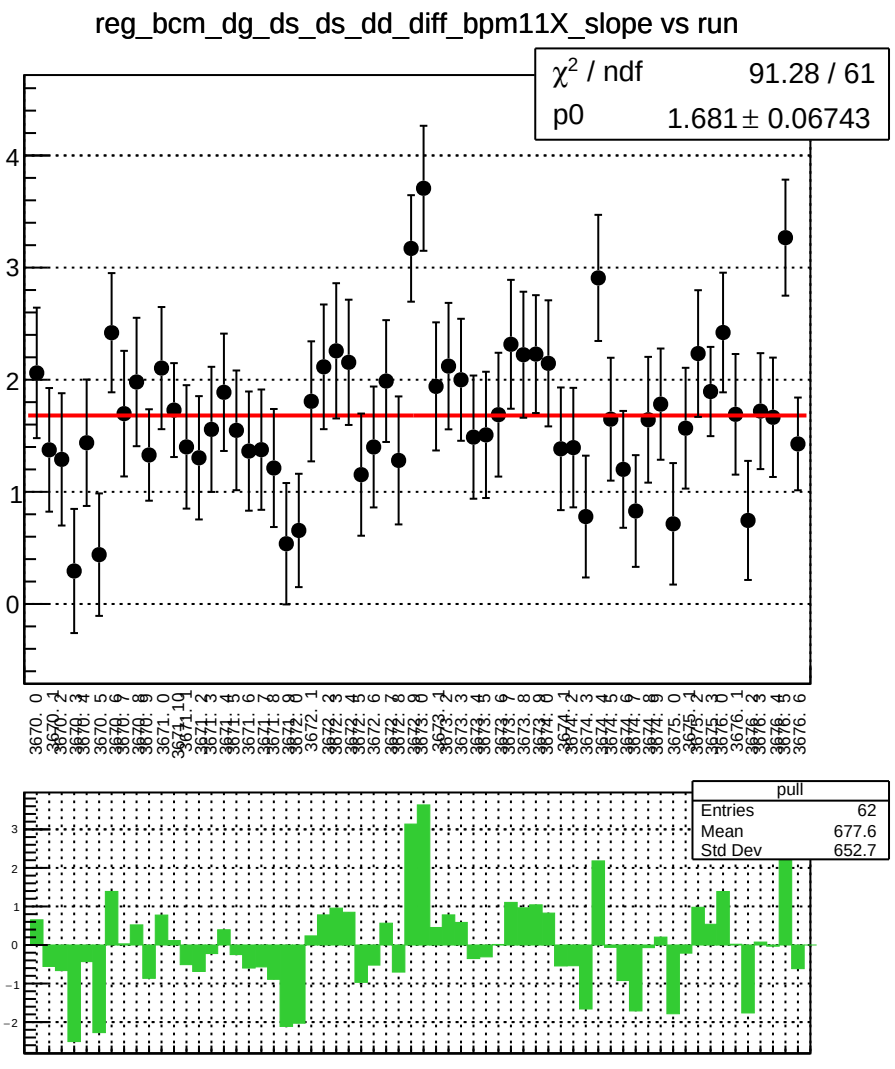

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.74 / 61
p0 −4.058 ± 0.2836
pull
Entries 62
Mean −958.5
Std Dev 998.2

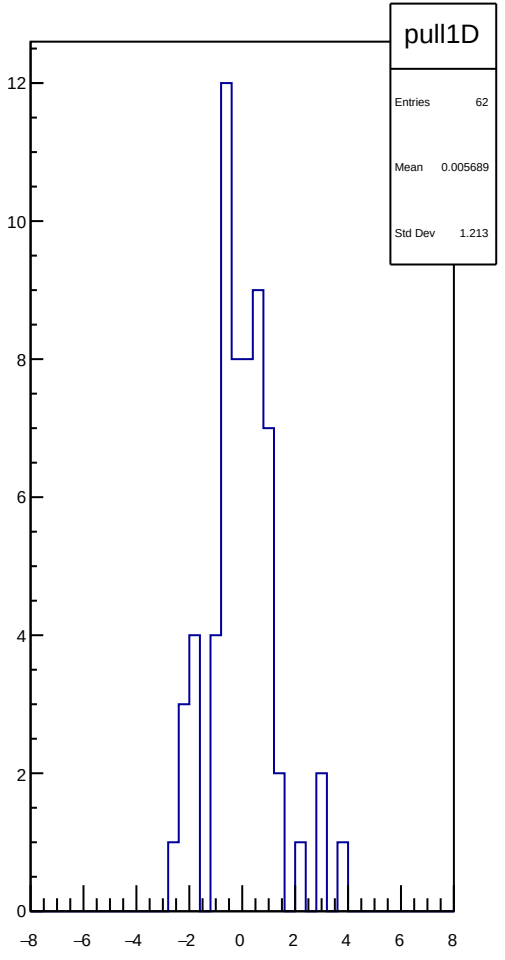

pull1D
Entries 62
Mean −0.004279
Std Dev 0.965

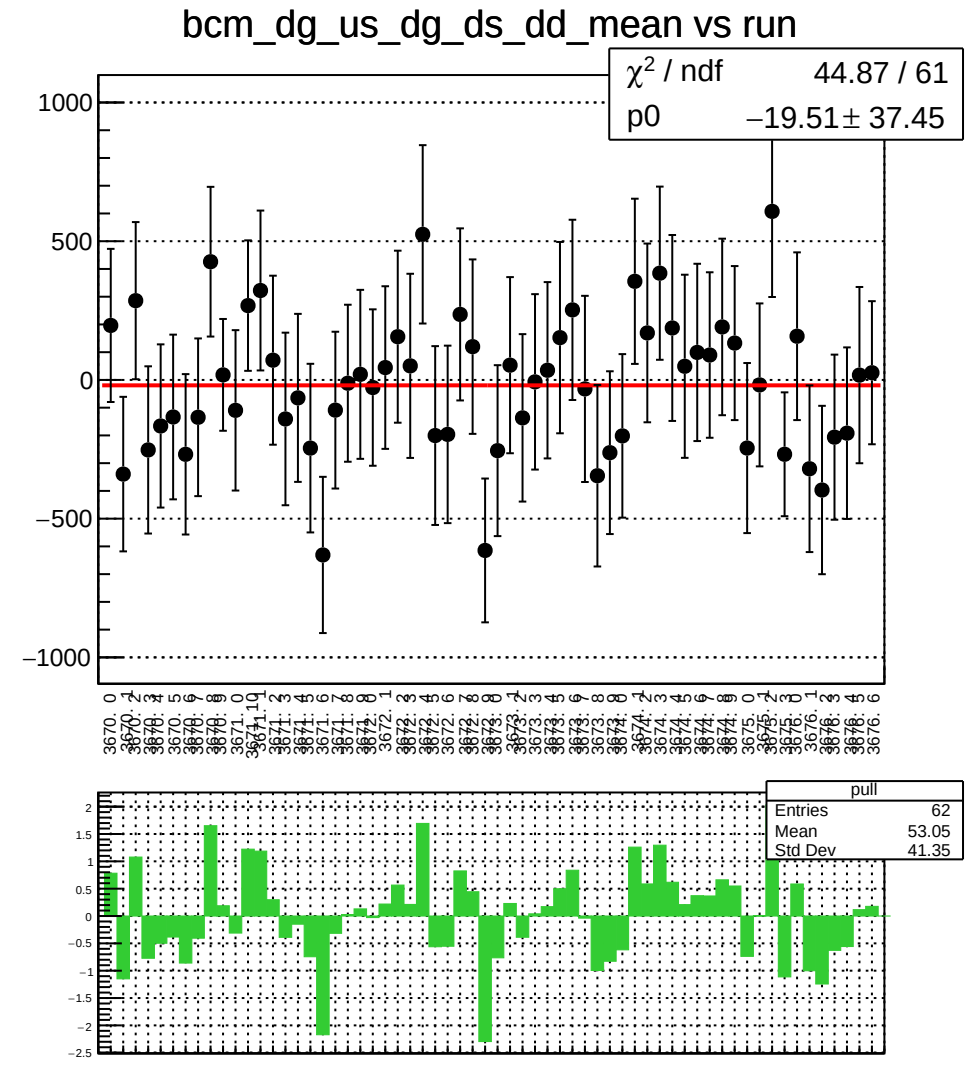

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.31 / 61
p0 0.786 ± 0.06936
pull
Entries 62
Mean 473.4
Std Dev 442.7
pull1D
Entries 62
Mean −0.0191
Std Dev 1.145

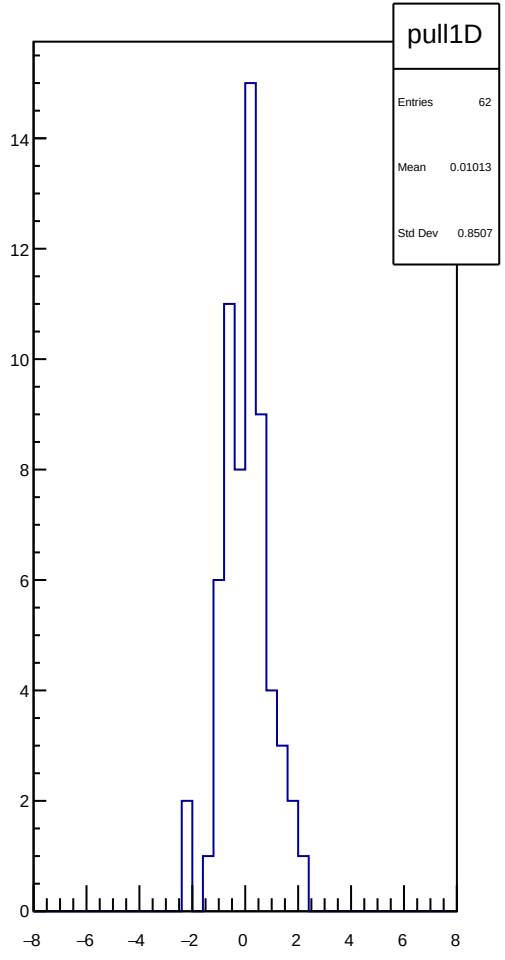

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.79 / 61
p0 6.296 ± 0.441
pull
Entries 62
Mean 8966
Std Dev 8929

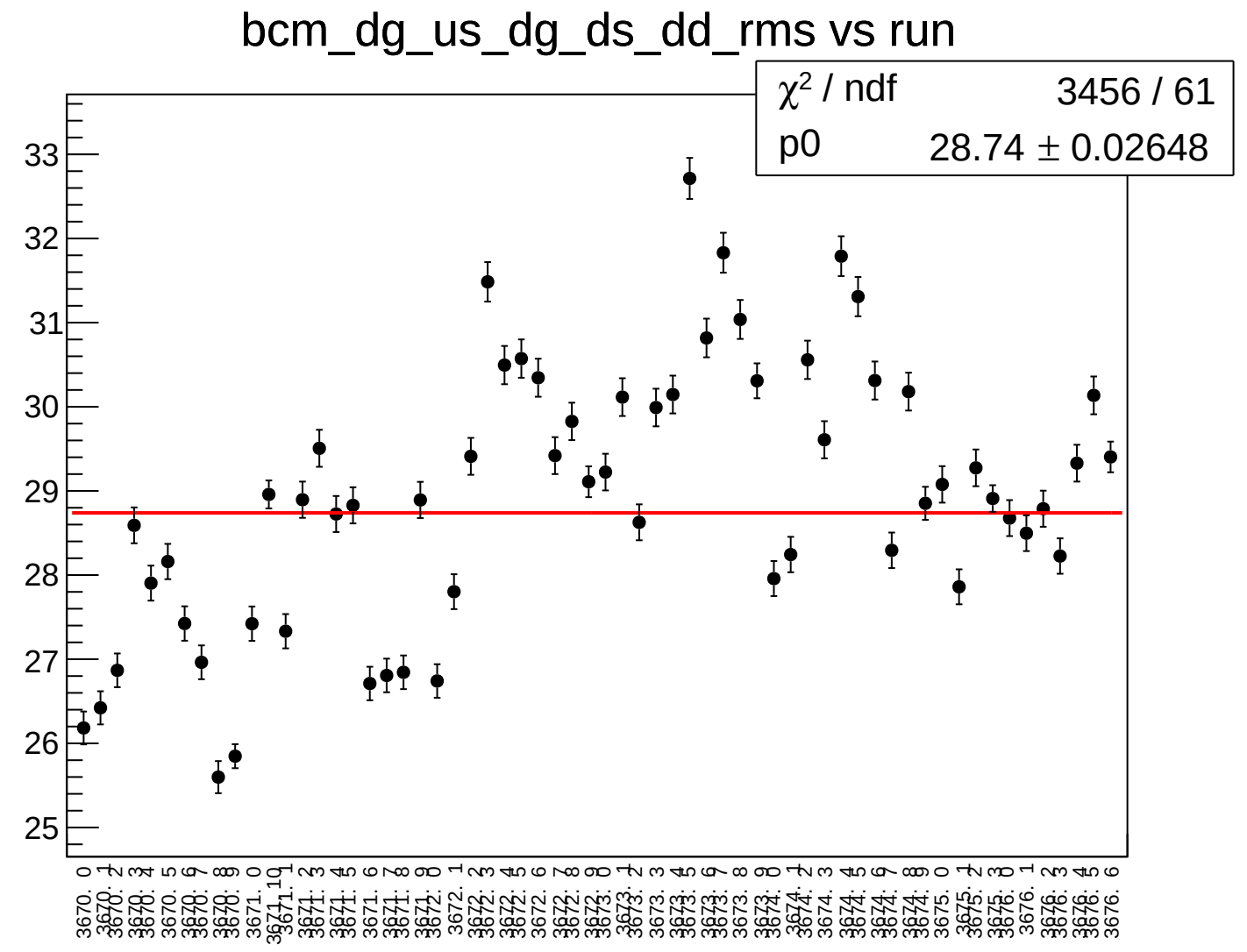

pull1D
Entries 62
Mean −0.0006441
Std Dev 0.9902


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 91.28 / 61
p0 1.681 ± 0.06743
pull
Entries 62
Mean 677.6
Std Dev 652.7


pull1D
Entries 62
Mean 0.005689
Std Dev 1.213


bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 44.87 / 61
p0 −19.51 ± 37.45
1000
500
0
−500
−1000
pull
Entries 62
Mean 53.05
Std Dev 41.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 62
Mean 0.01013
Std Dev 0.8507
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3456 / 61
p0 28.74 ± 0.02648
33
32
31
30
29
28
27
26
25
3670. 0
3670. 1
3670. 2
3670. 3
3670. 4
3670. 5
3670. 6
3670. 7
3670. 8
3670. 9
3671. 0
3671. 1
3671. 2
3671. 3
3671. 4
3671. 5
3671. 6
3671. 7
3671. 8
3671. 9
3672. 0
3672. 1
3672. 2
3672. 3
3672. 4
3672. 5
3672. 6
3672. 7
3672. 8
3672. 9
3673. 0
3673. 1
3673. 2
3673. 3
3673. 4
3673. 5
3673. 6
3673. 7
3673. 8
3673. 9
3674. 0
3674. 1
3674. 2
3674. 3
3674. 4
3674. 5
3674. 6
3674. 7
3674. 8
3674. 9
3675. 0
3675. 1
3675. 2
3675. 3
3676. 0
3676. 1
3676. 2
3676. 3
3676. 4
3676. 5
3676. 6