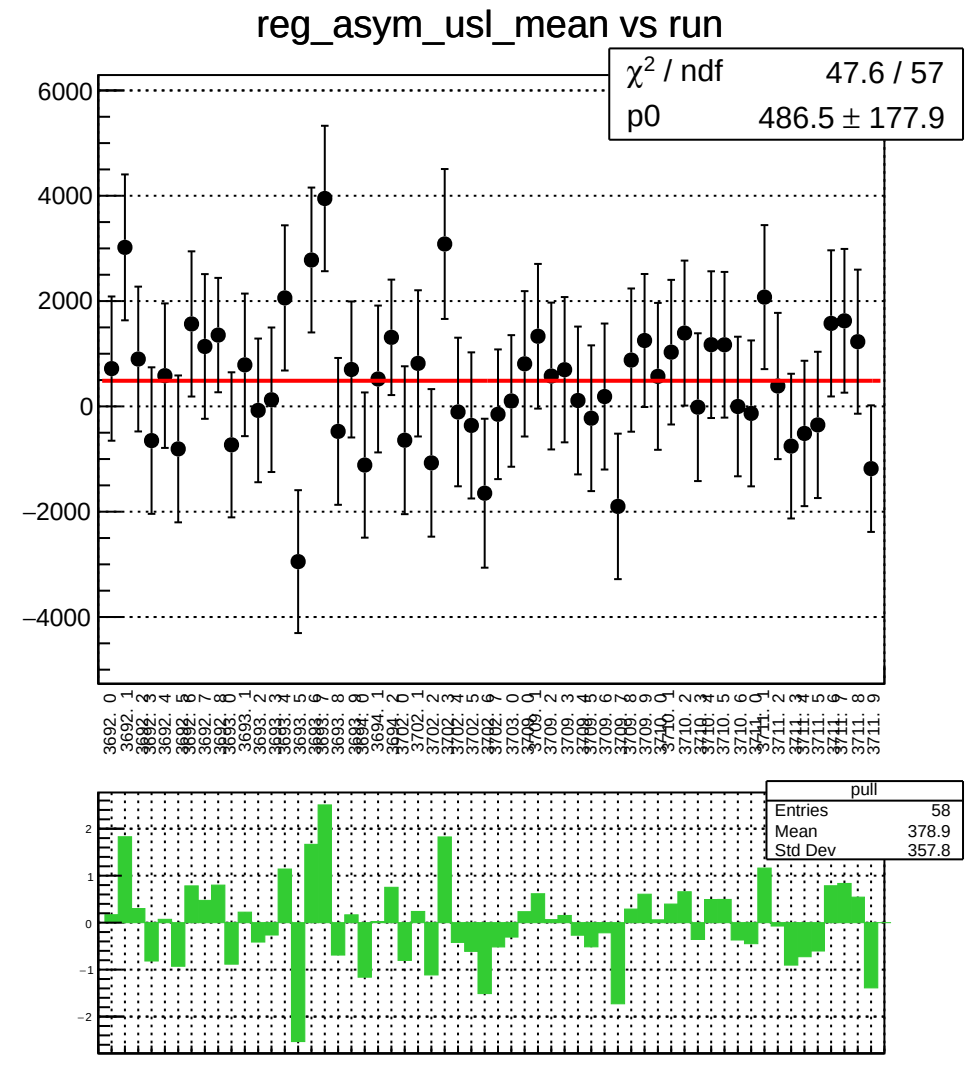
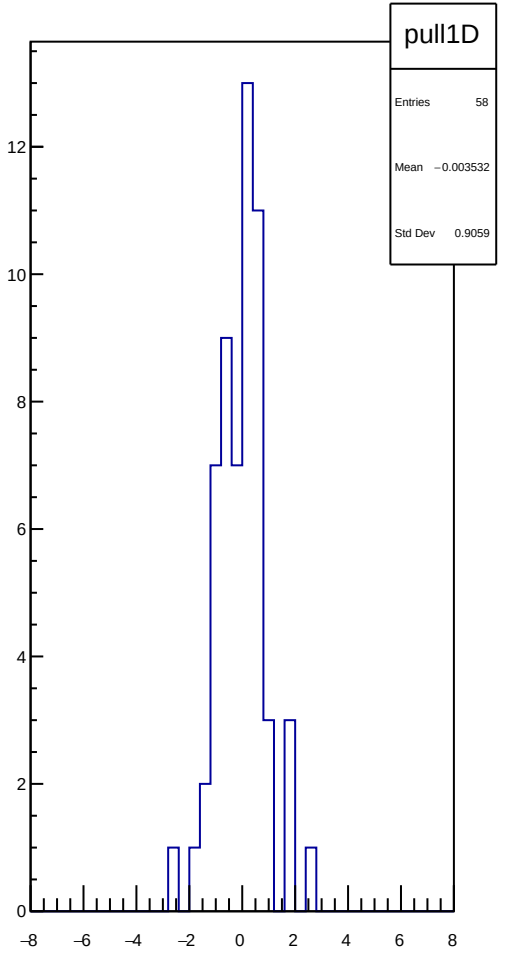
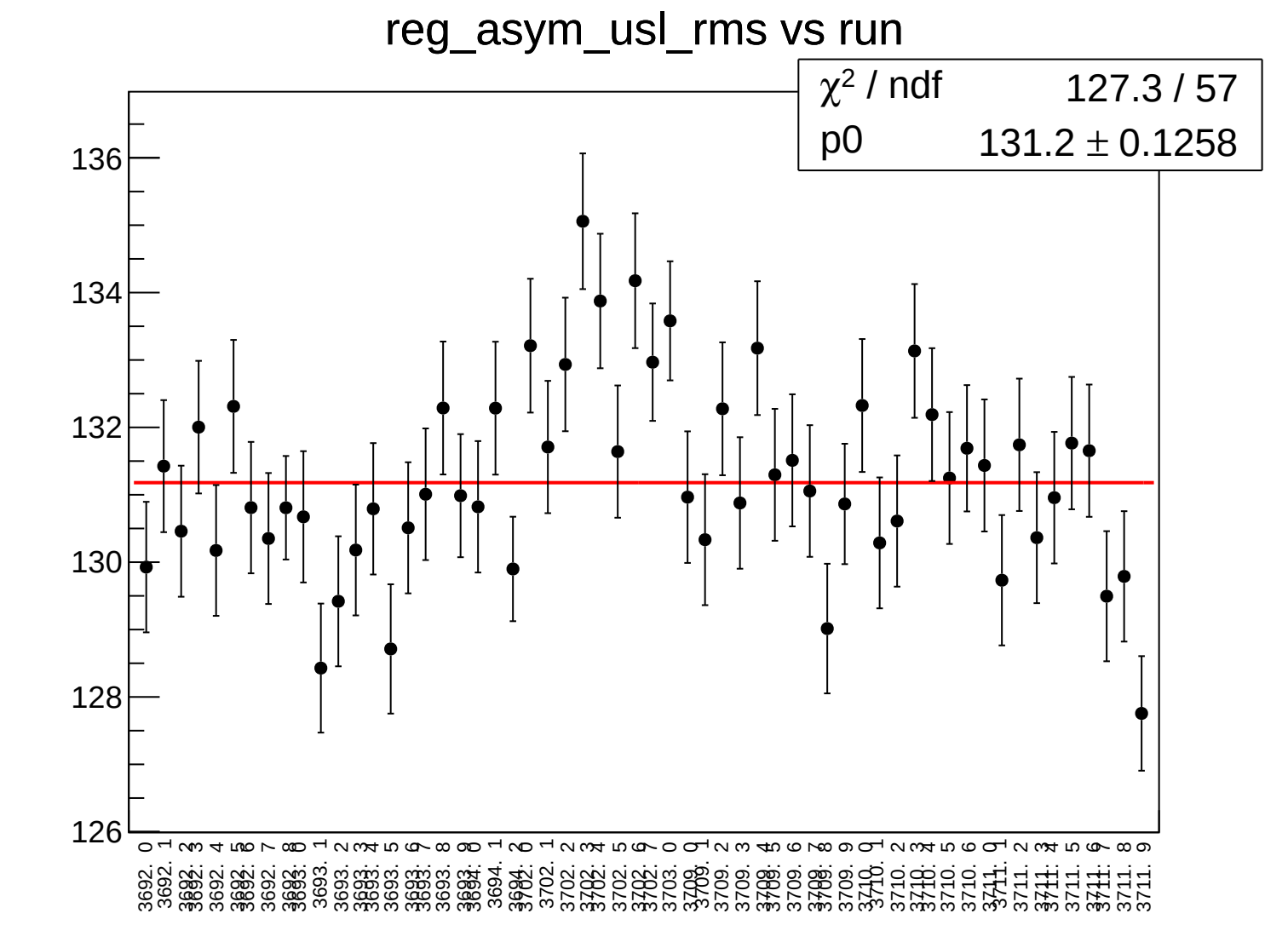
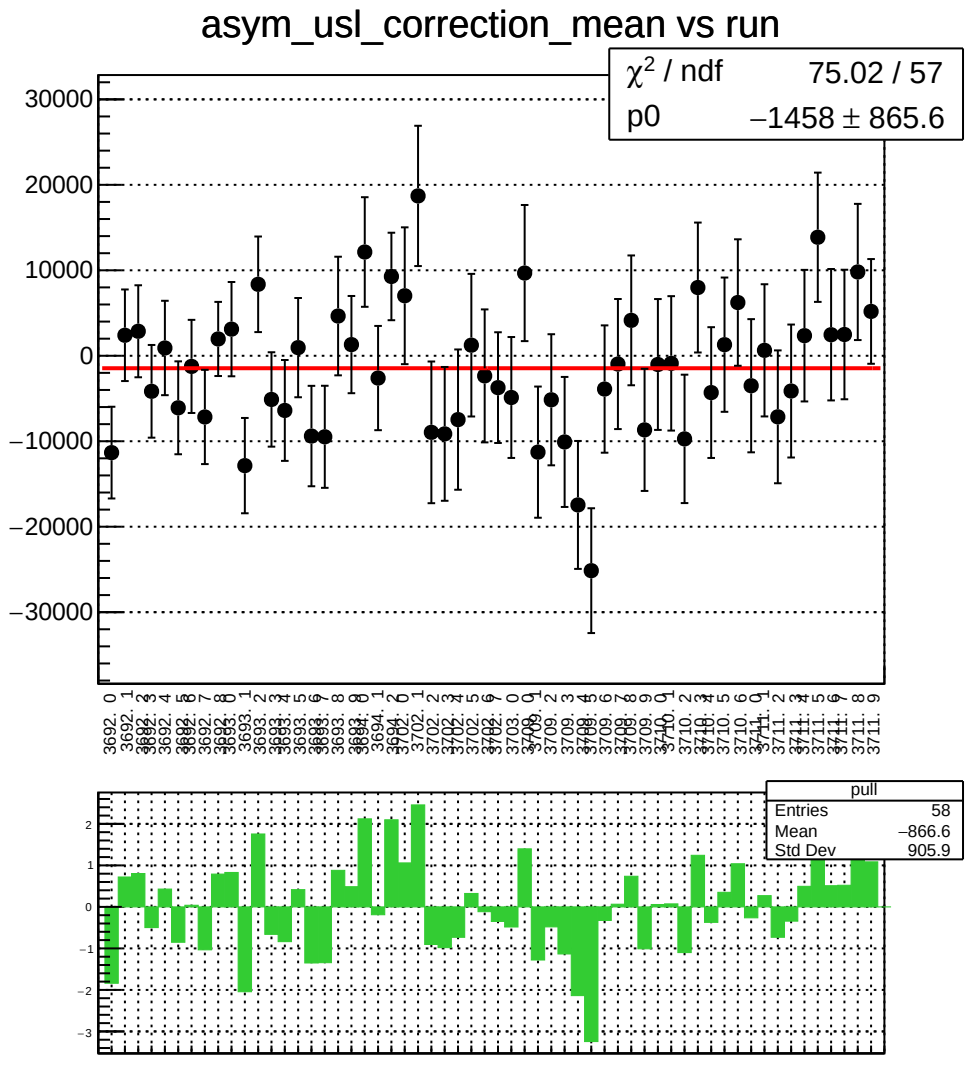
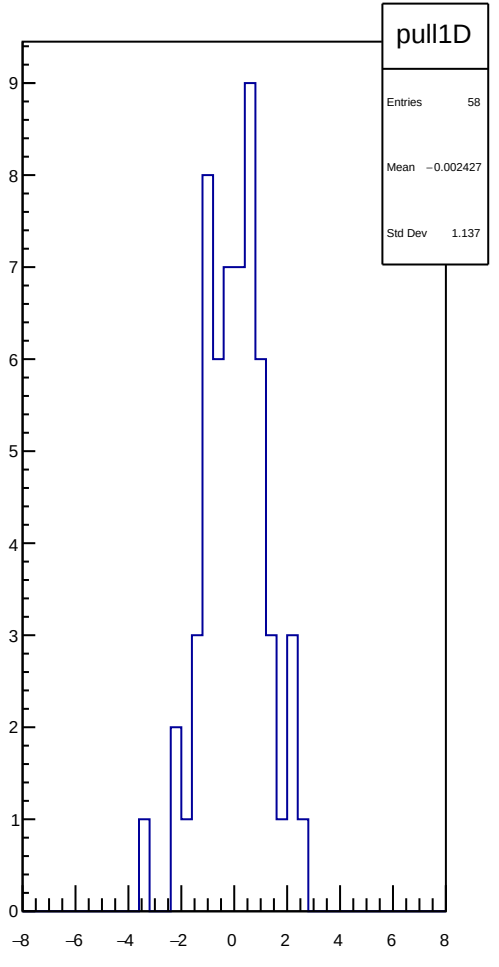
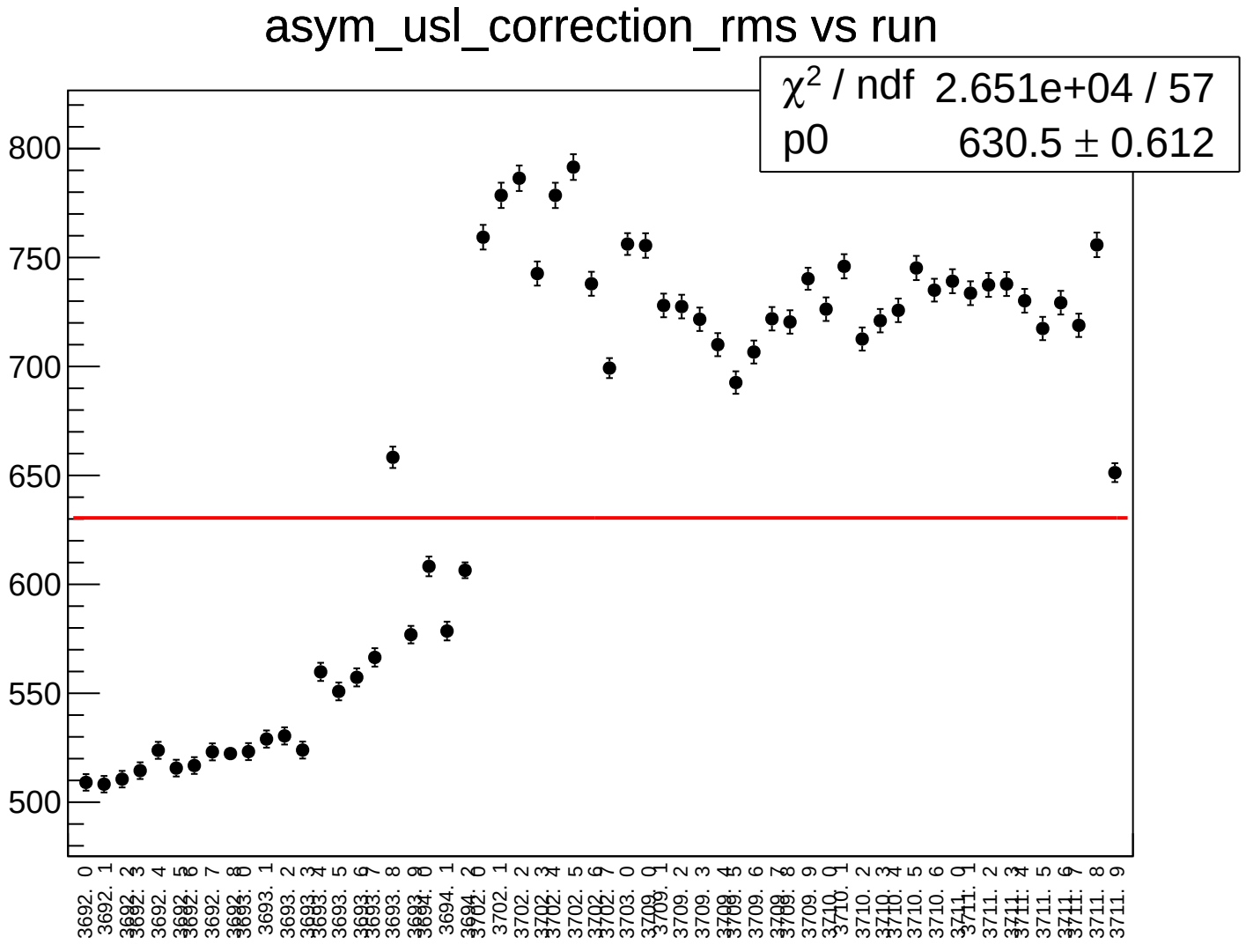

reg_asym_usl_mean vs run
χ² / ndf 47.6 / 57
p0 486.5 ± 177.9
6000
4000
2000
0
−2000
−4000
pull
Entries 58
Mean 378.9
Std Dev 357.8
2
1
0
−1
−2

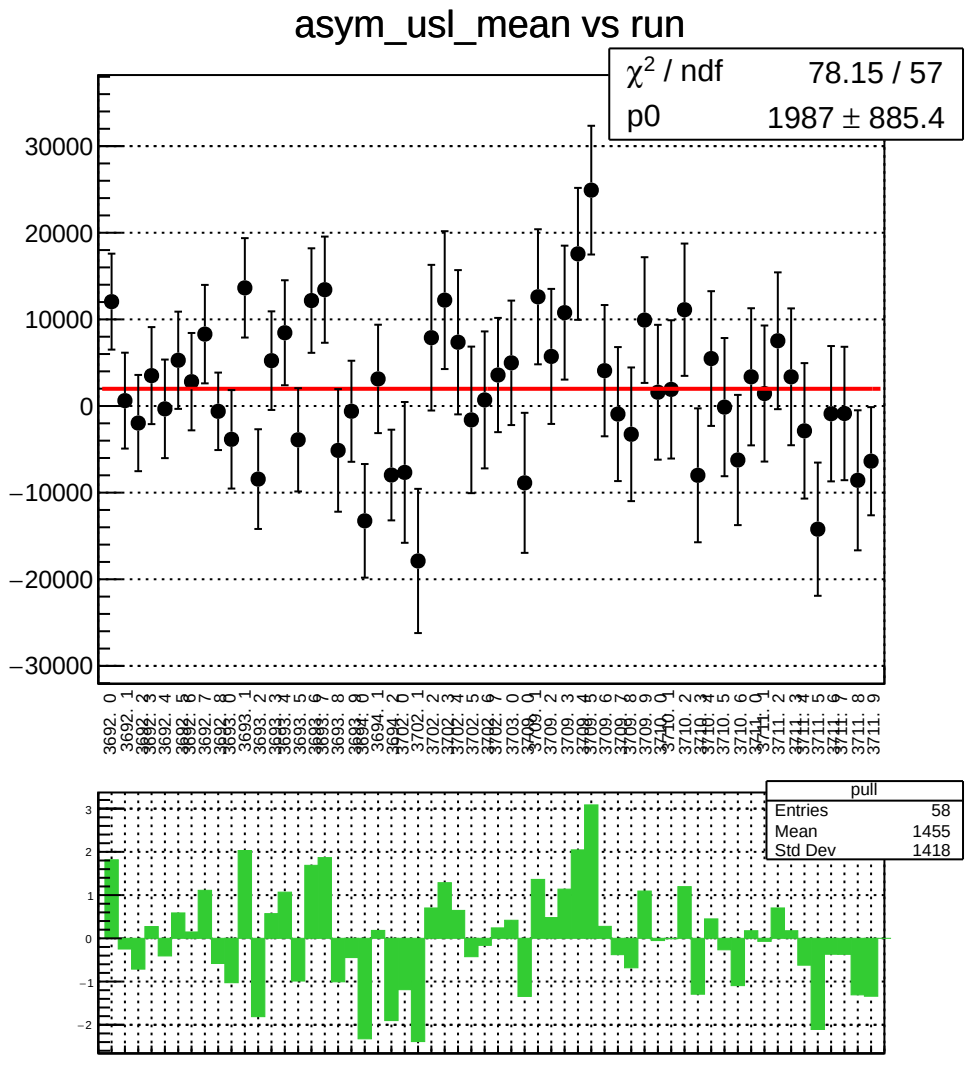

pull1D
Entries 58
Mean −0.003532
Std Dev 0.9059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

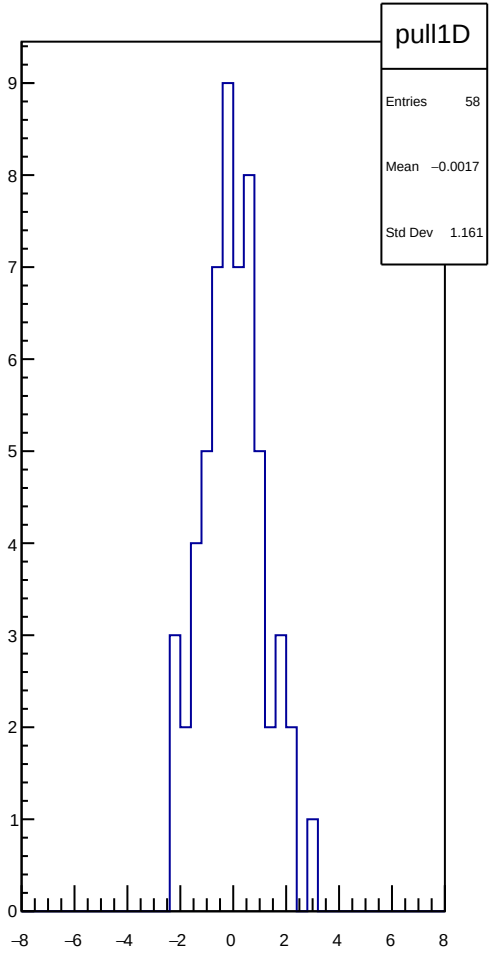

reg_asym_usl_rms vs run
χ² / ndf 127.3 / 57
p0 131.2 ± 0.1258
136
134
132
130
128
126

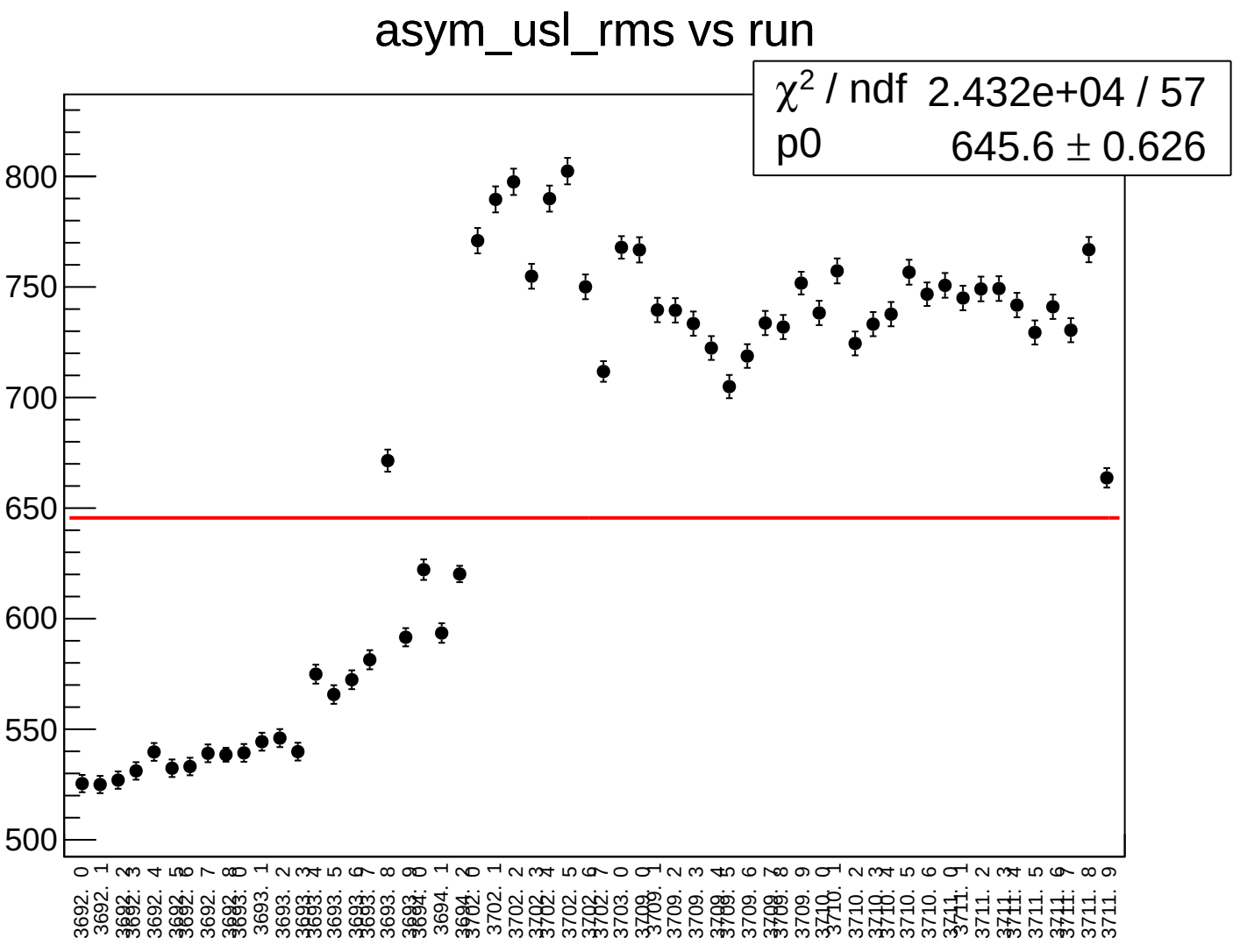

asym_usl_correction_mean vs run
χ² / ndf 75.02 / 57
p0 −1458 ± 865.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean −866.6
Std Dev 905.9
2
1
0
−1
−2
−3

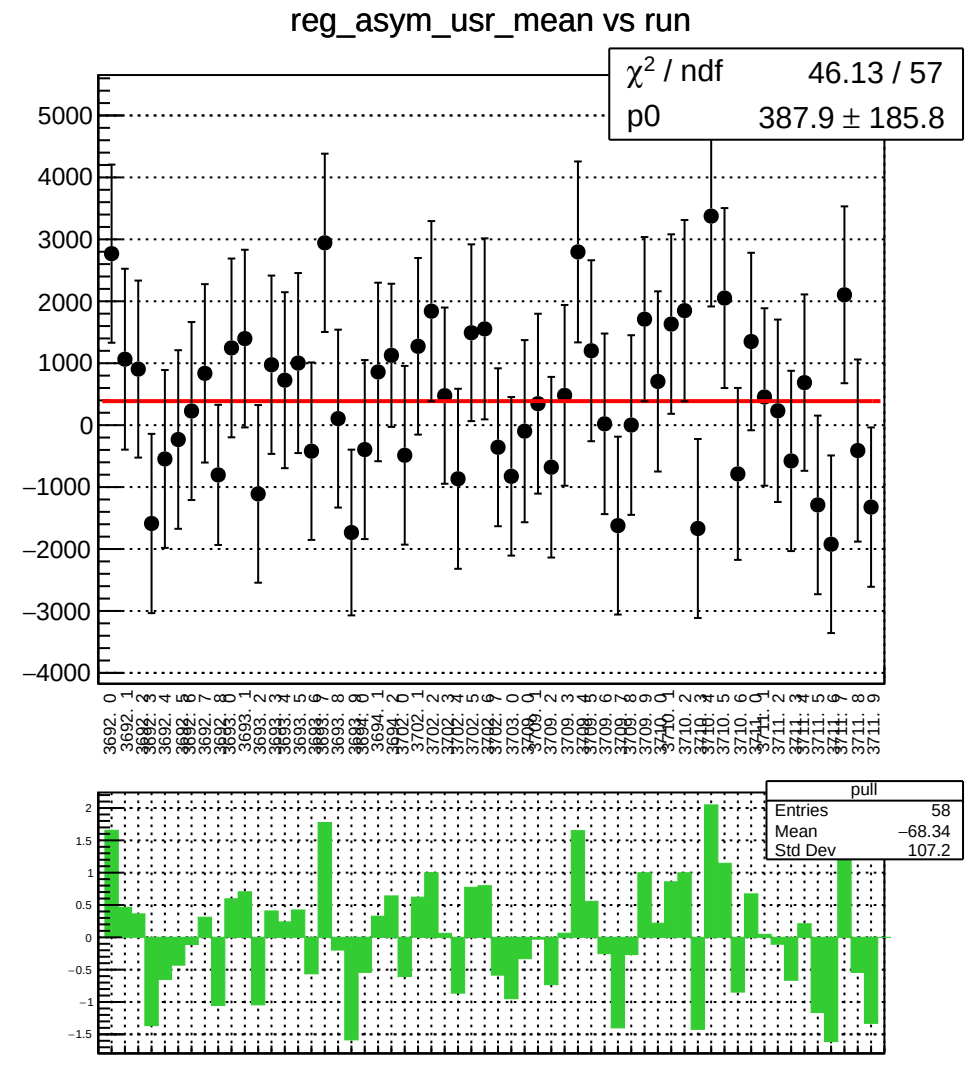

pull1D
Entries 58
Mean −0.002427
Std Dev 1.137
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

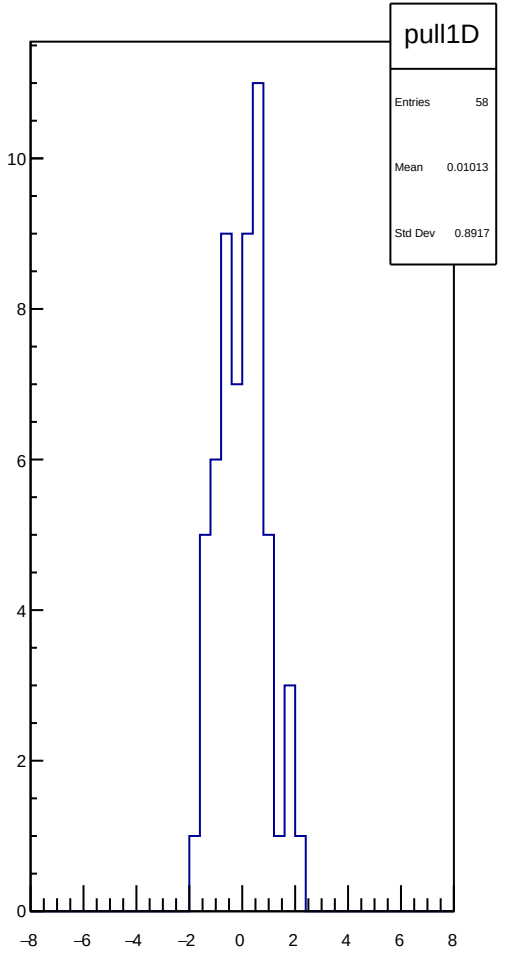

asym_usl_correction_rms vs run
χ² / ndf 2.651e+04 / 57
p0 630.5 ± 0.612
800
750
700
650
600
550
500

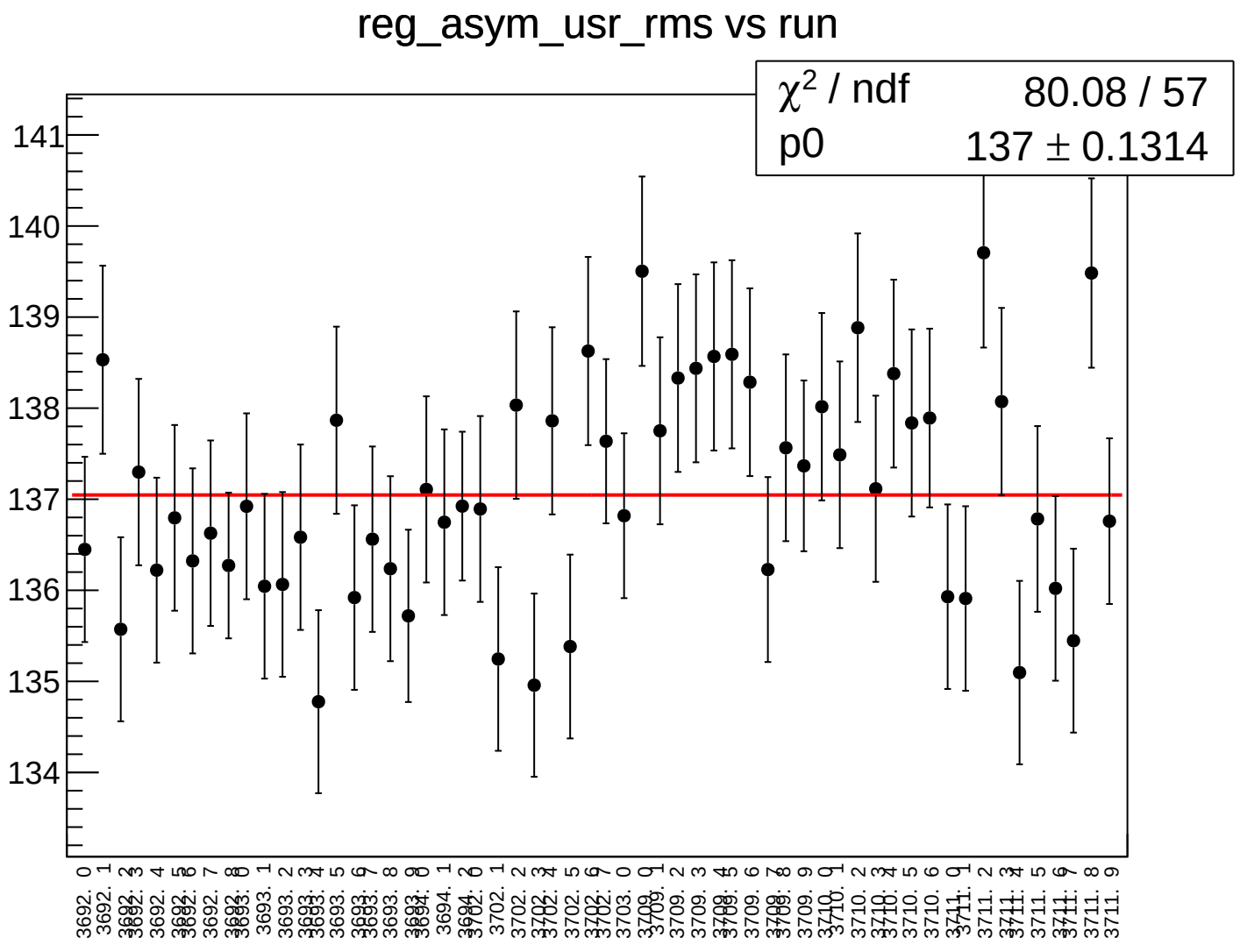

asym_usl_mean vs run
χ² / ndf 78.15 / 57
p0 1987 ± 885.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean 1455
Std Dev 1418
3
2
1
0
−1
−2

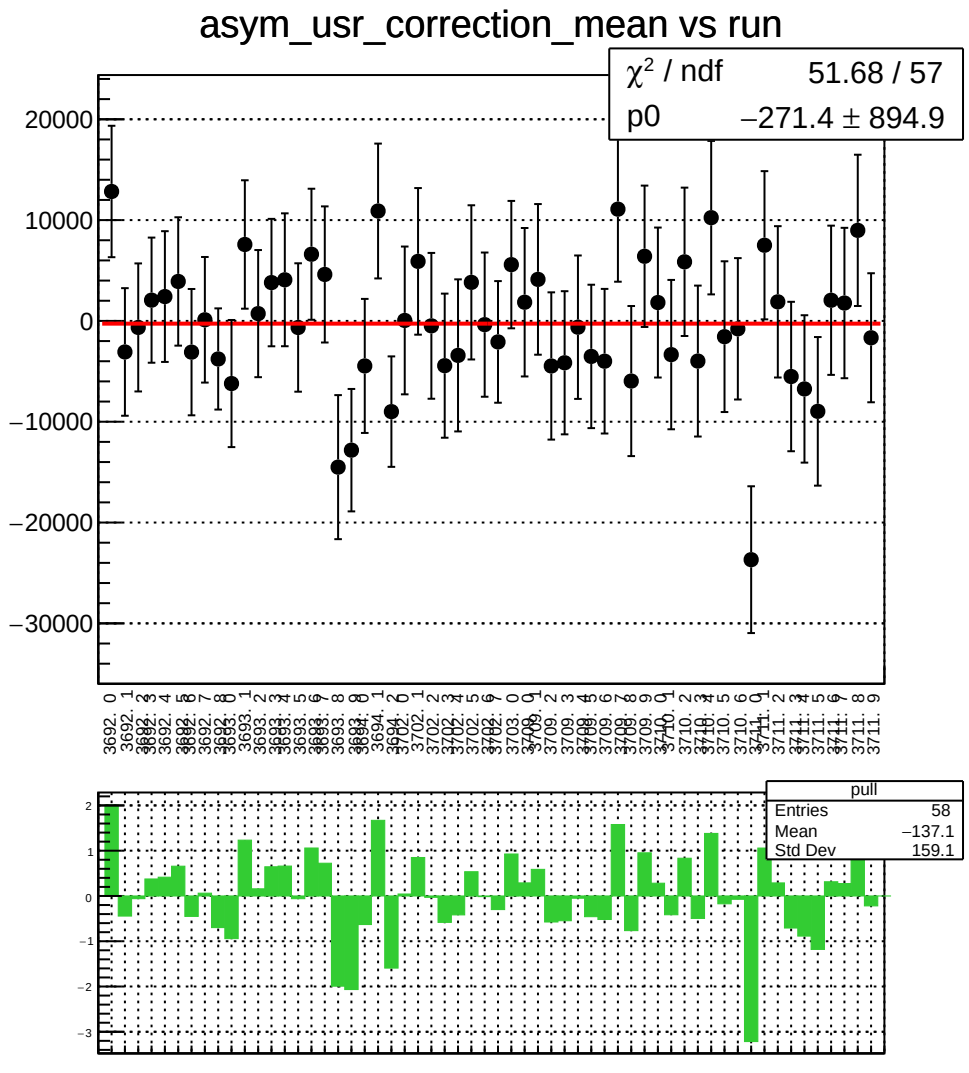

pull1D
Entries 58
Mean −0.0017
Std Dev 1.161
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

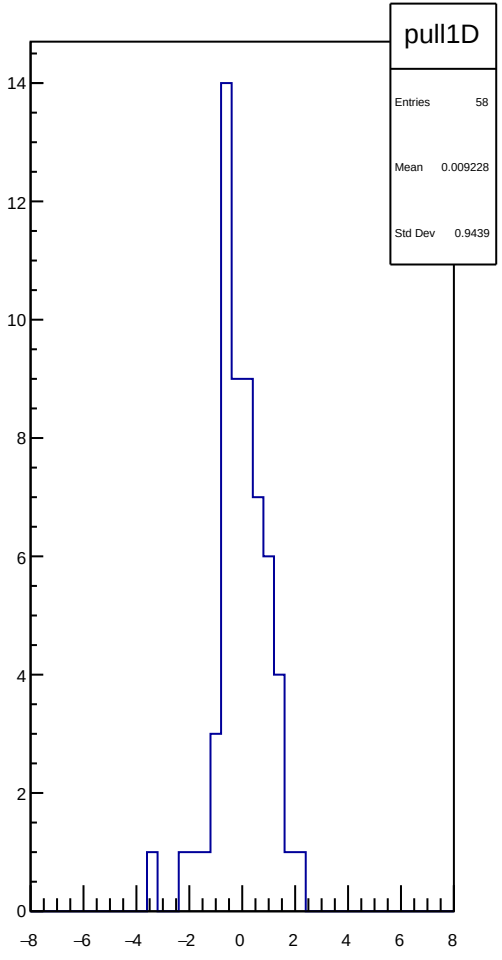

asym_usl_rms vs run
χ² / ndf 2.432e+04 / 57
p0 645.6 ± 0.626
800
750
700
650
600
550
500

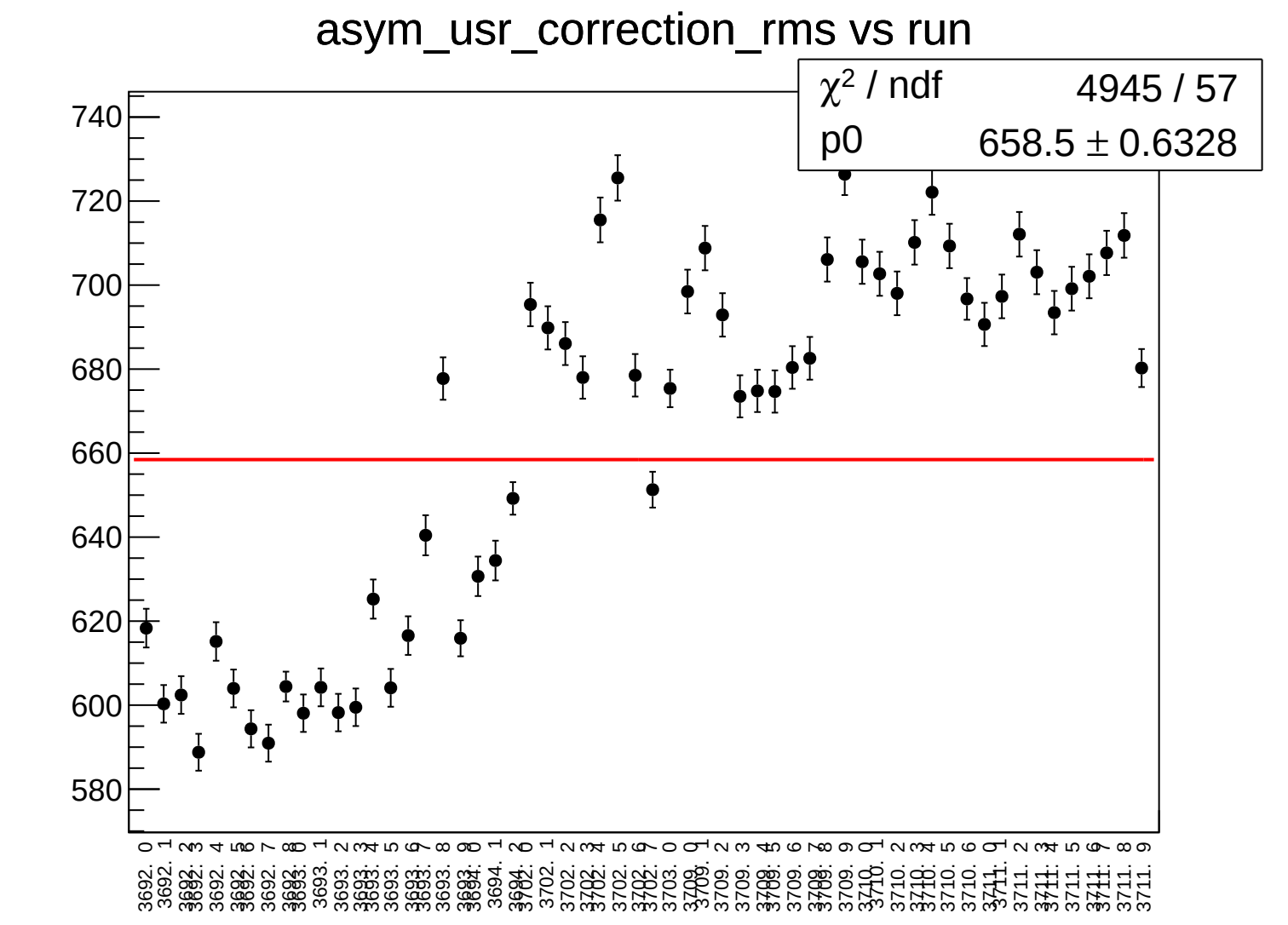

reg_asym_usr_mean vs run
χ^2 / ndf 46.13 / 57
p0 387.9 ± 185.8
pull
Entries 58
Mean −68.34
Std Dev 107.2

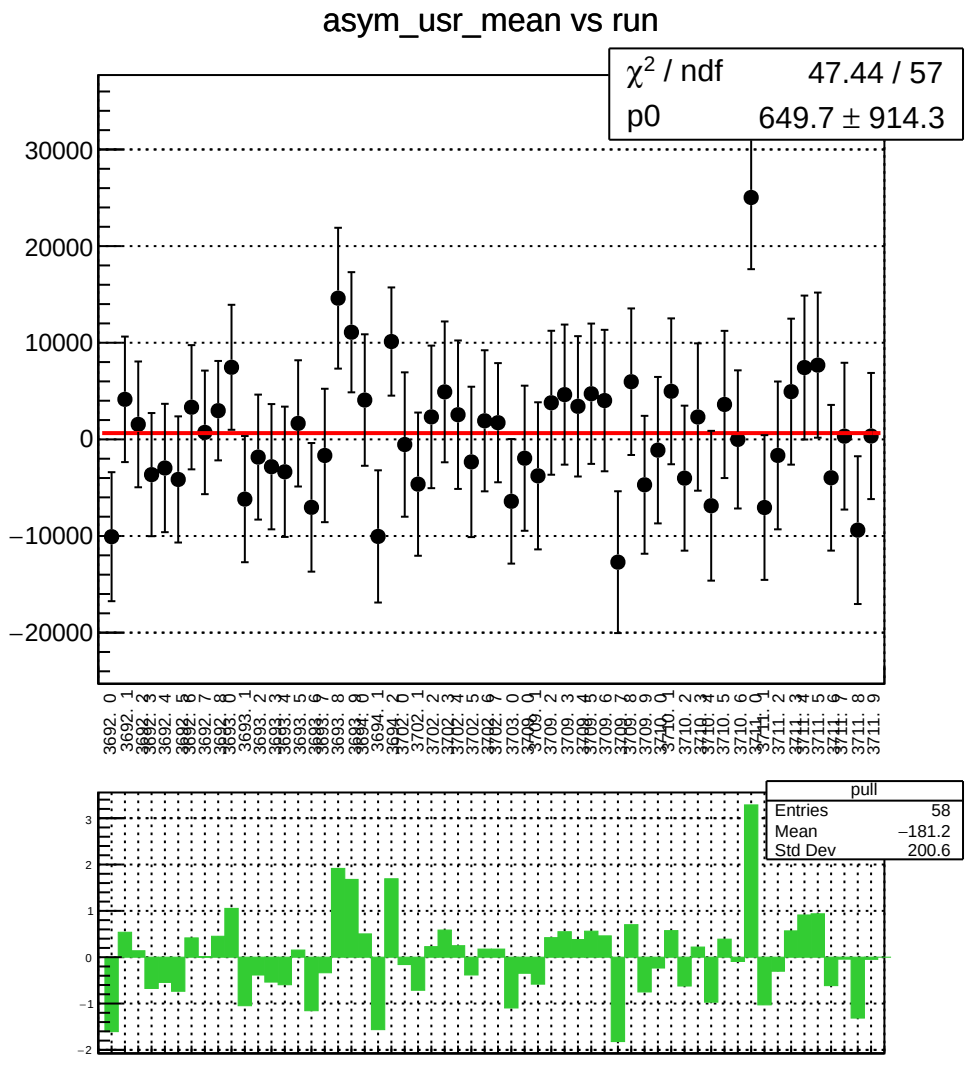

pull1D
Entries 58
Mean 0.01013
Std Dev 0.8917

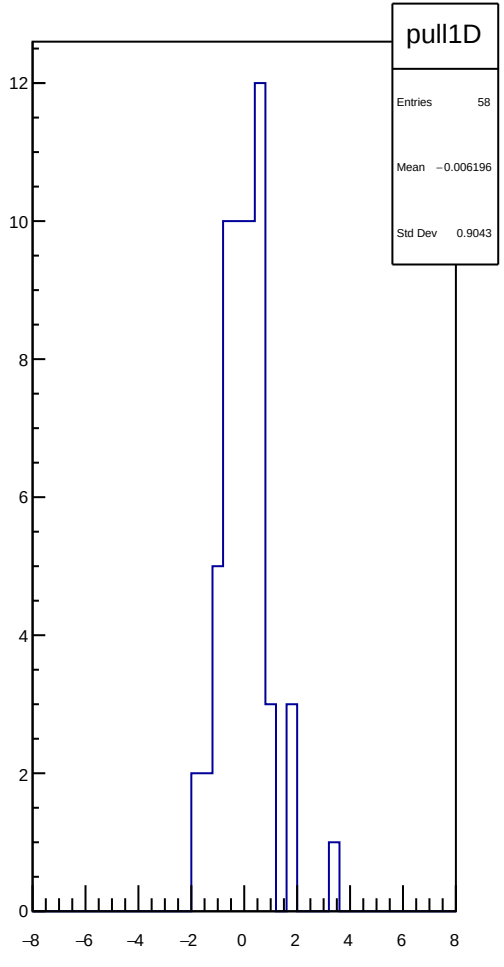

reg_asym_usr_rms vs run
χ² / ndf 80.08 / 57
p0 137 ± 0.1314
141
140
139
138
137
136
135
134

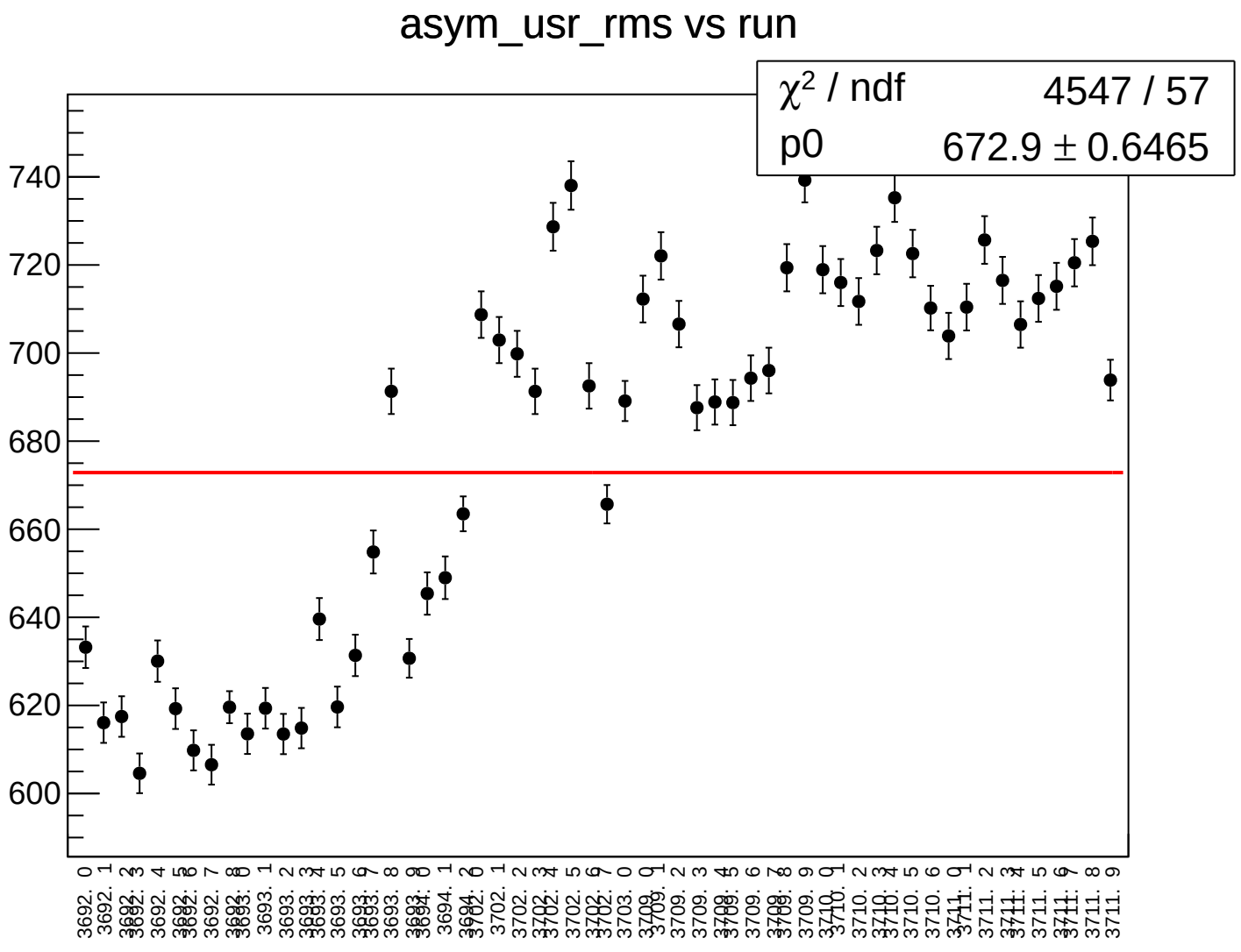

asym_usr_correction_mean vs run
χ² / ndf 51.68 / 57
p0 −271.4 ± 894.9
pull
Entries 58
Mean −137.1
Std Dev 159.1

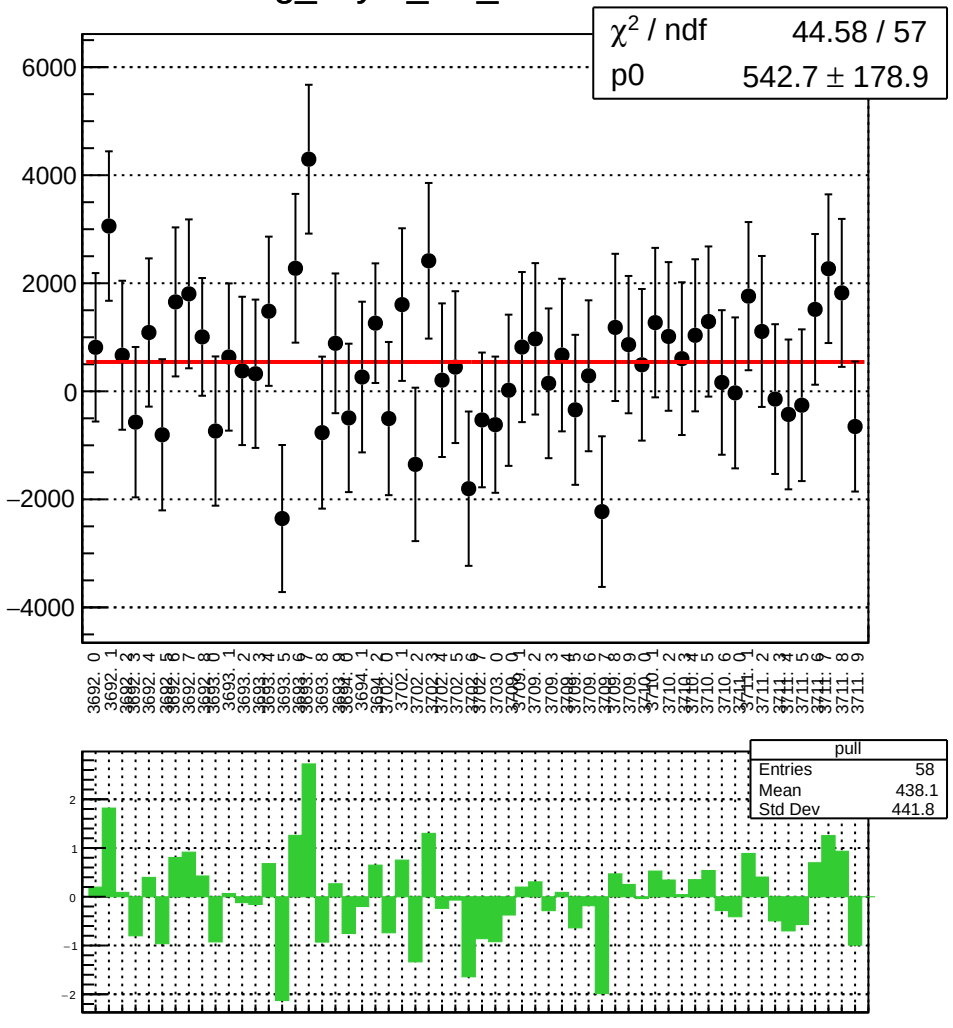

pull1D
Entries 58
Mean 0.009228
Std Dev 0.9439

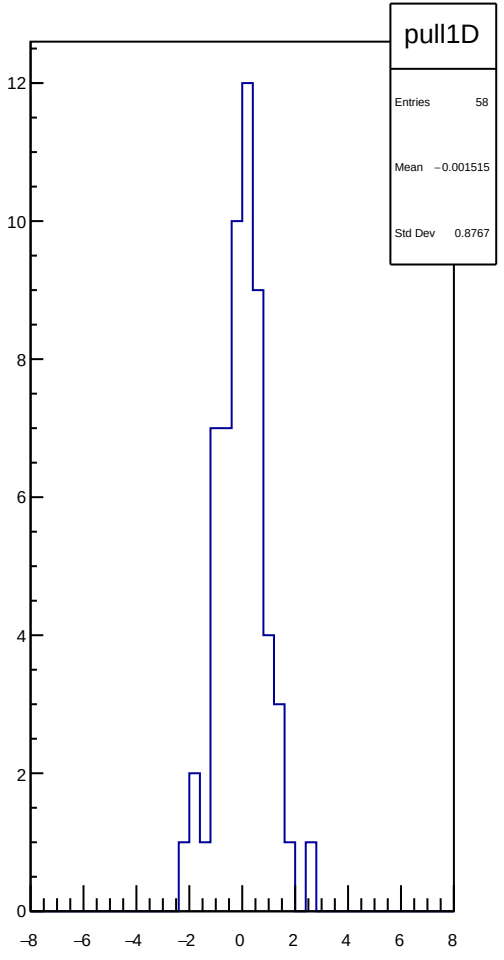

asym_usr_correction_rms vs run
χ² / ndf 4945 / 57
p0 658.5 ± 0.6328
740
720
700
680
660
640
620
600
580

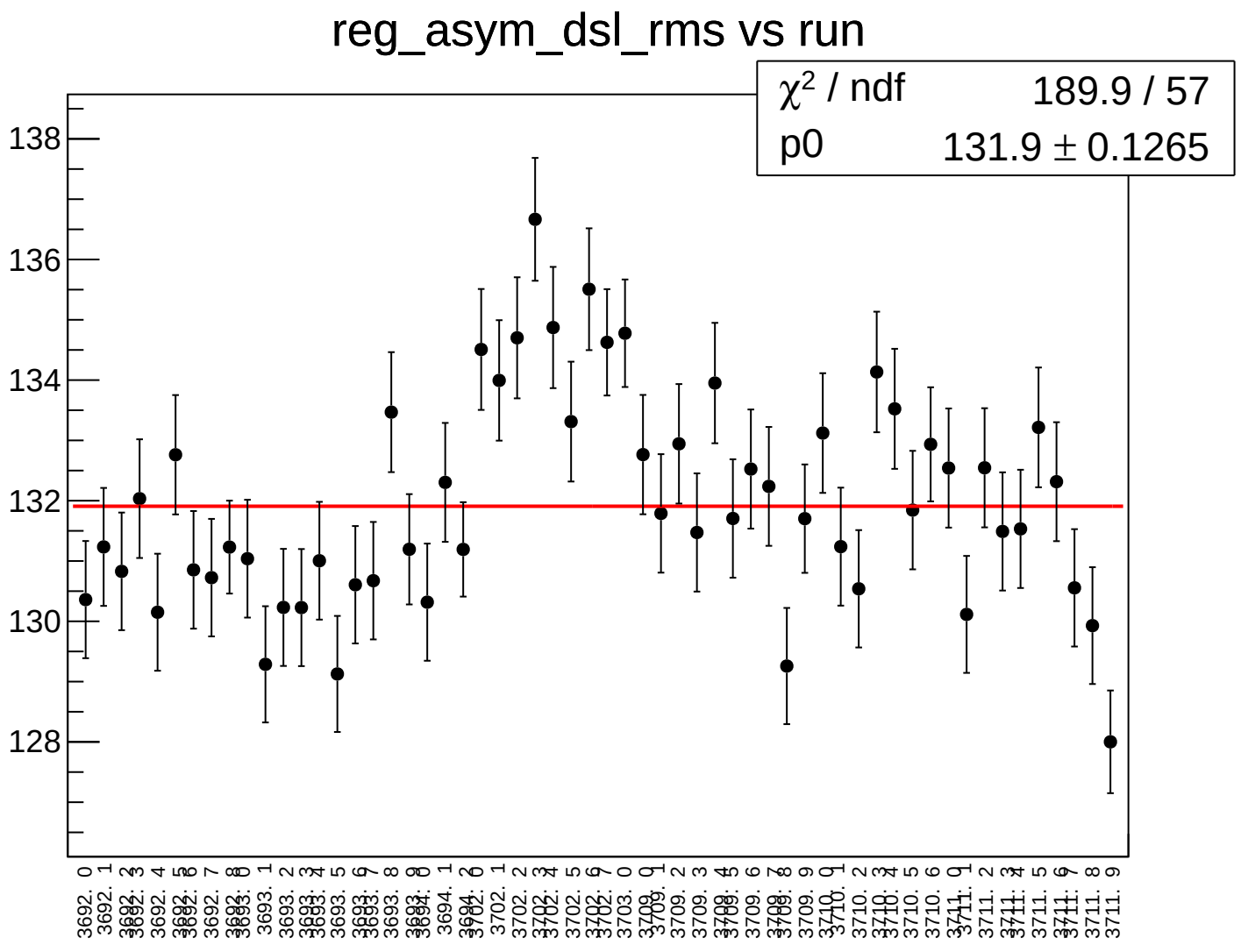

asym_usr_mean vs run
χ² / ndf 47.44 / 57
p0 649.7 ± 914.3
30000
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −181.2
Std Dev 200.6
3
2
1
0
−1
−2

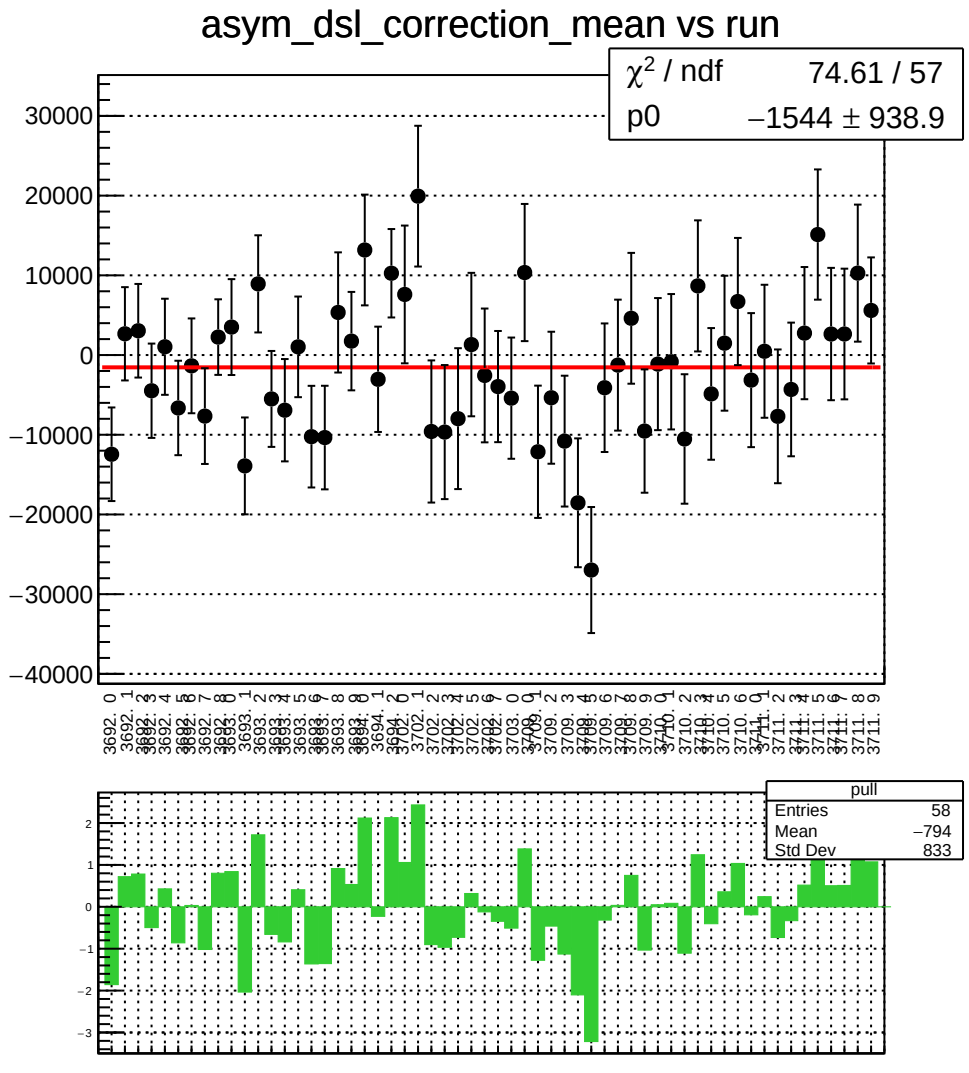

pull1D
Entries 58
Mean −0.006196
Std Dev 0.9043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

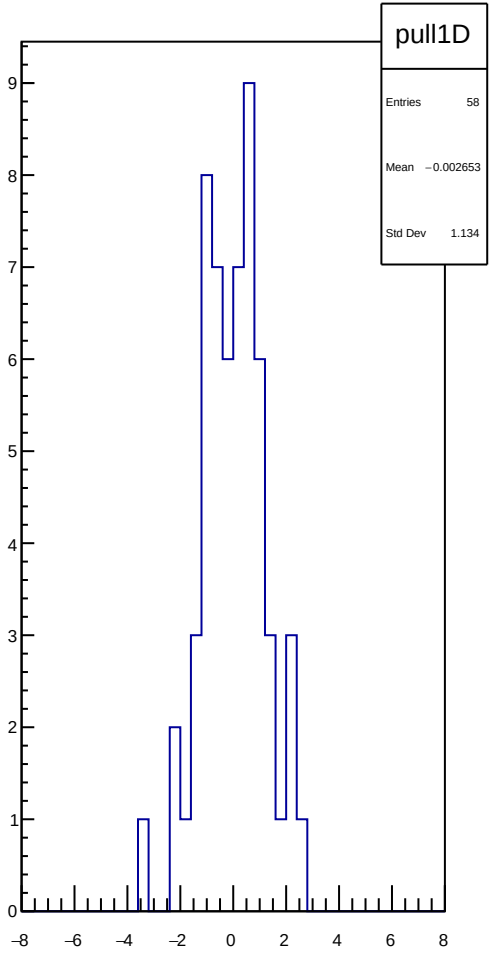

asym_usr_rms vs run
χ² / ndf 4547 / 57
p0 672.9 ± 0.6465
740
720
700
680
660
640
620
600
3692. 0
3692. 1
3692. 2
3692. 3
3692. 4
3692. 5
3692. 6
3692. 7
3692. 8
3693. 0
3693. 1
3693. 2
3693. 3
3693. 4
3693. 5
3693. 6
3693. 7
3693. 8
3693. 9
3694. 0
3694. 1
3694. 2
3702. 0
3702. 1
3702. 2
3702. 3
3702. 4
3702. 5
3702. 6
3702. 7
3703. 0
3709. 0
3709. 1
3709. 2
3709. 3
3709. 4
3709. 5
3709. 6
3709. 7
3709. 8
3709. 9
3710. 0
3710. 1
3710. 2
3710. 3
3710. 4
3710. 5
3710. 6
3711. 0
3711. 1
3711. 2
3711. 3
3711. 4
3711. 5
3711. 6
3711. 7
3711. 8
3711. 9

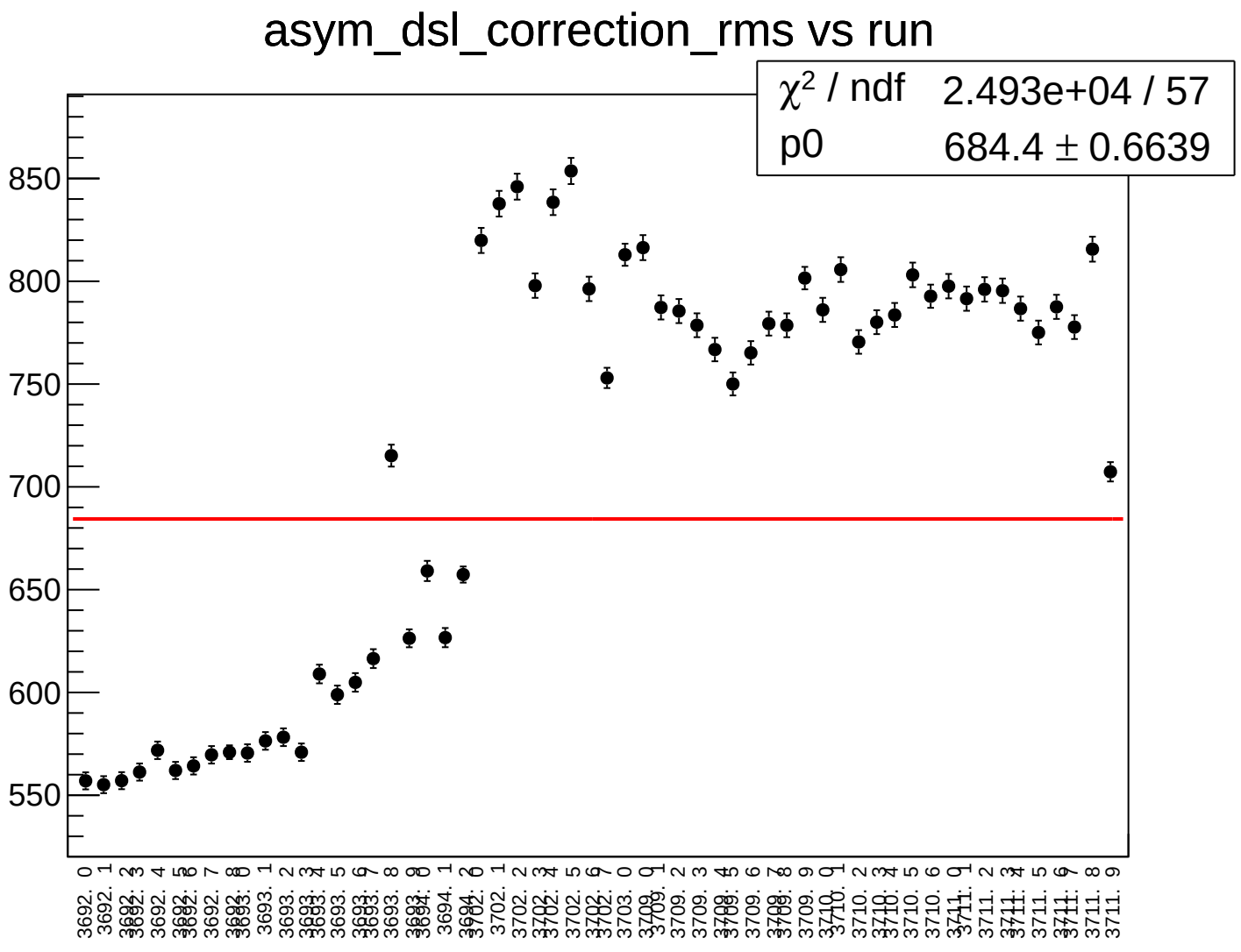

reg_asym_dsl_mean vs run
χ² / ndf 44.58 / 57
p0 542.7 ± 178.9
pull
Entries 58
Mean 438.1
Std Dev 441.8

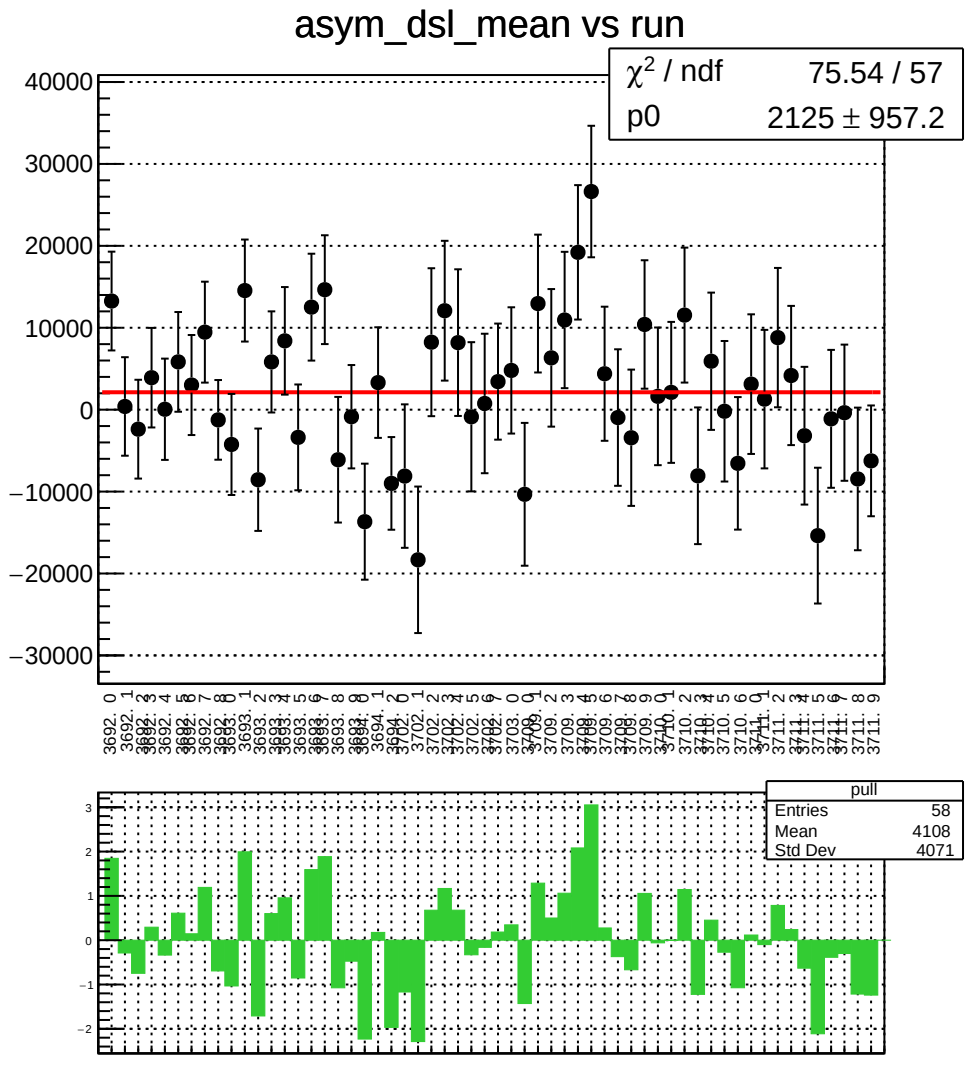

pull1D
Entries 58
Mean −0.001515
Std Dev 0.8767

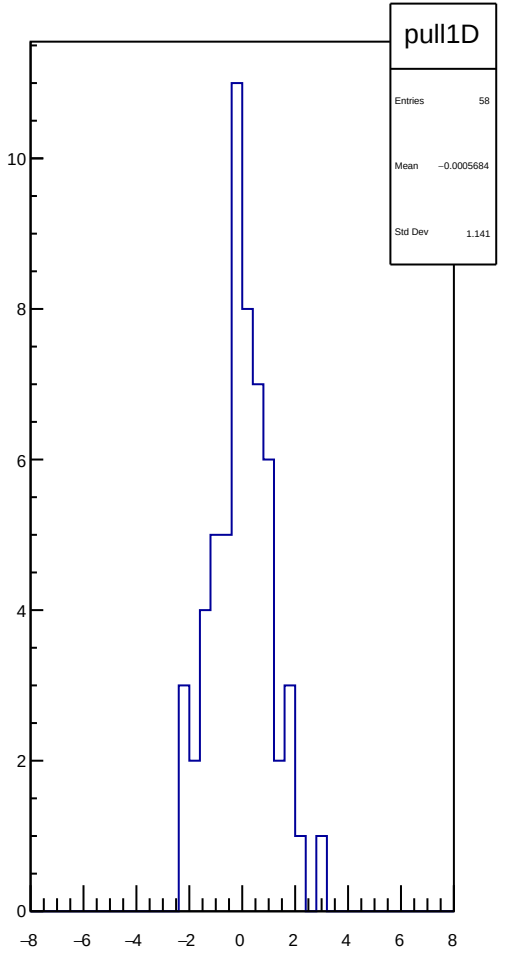

reg_asym_dsl_rms vs run
χ² / ndf 189.9 / 57
p0 131.9 ± 0.1265
138
136
134
132
130
128

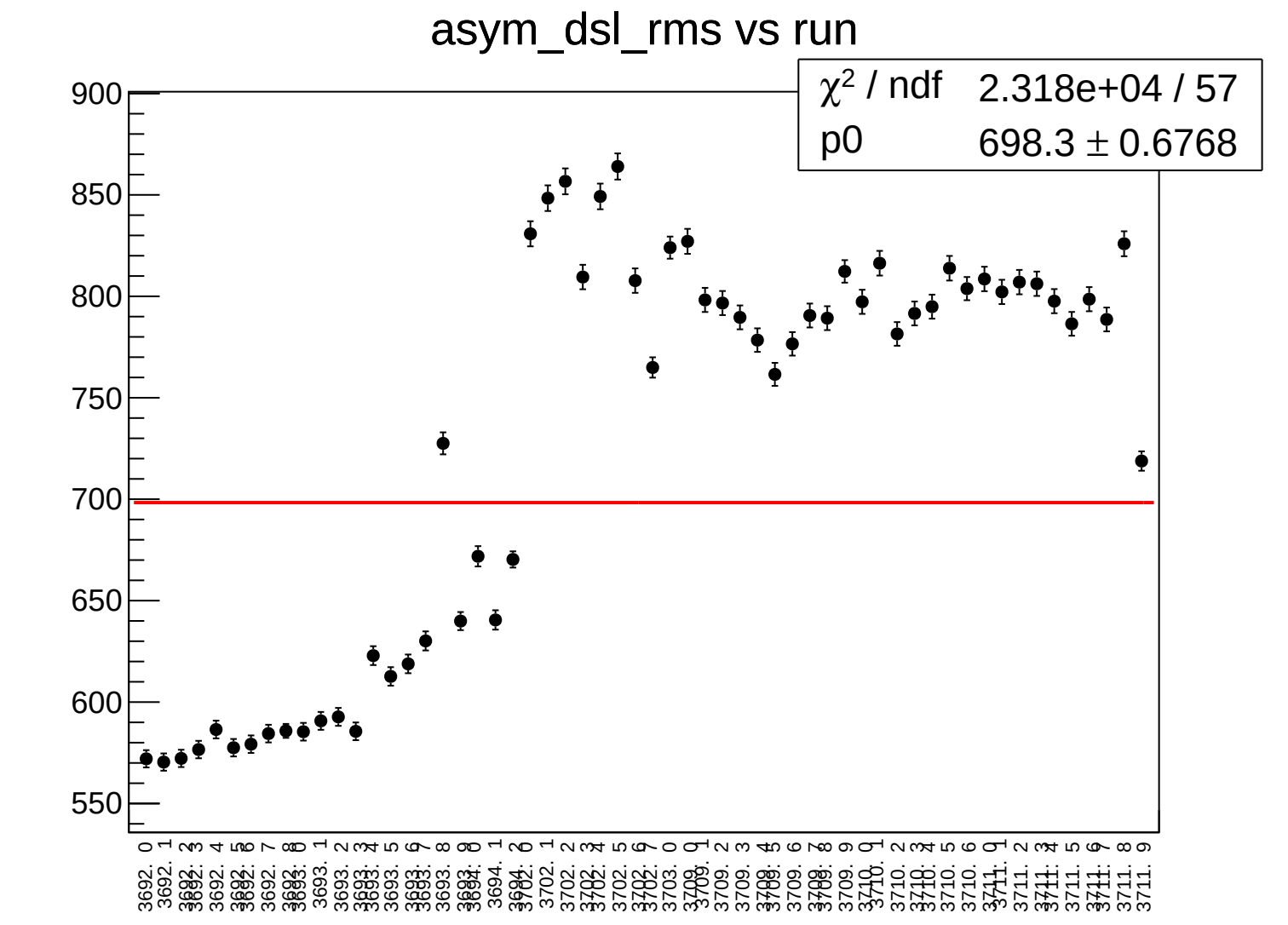

asym_dsl_correction_mean vs run
χ² / ndf 74.61 / 57
p0 −1544 ± 938.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 58
Mean −794
Std Dev 833
2
1
0
−1
−2
−3

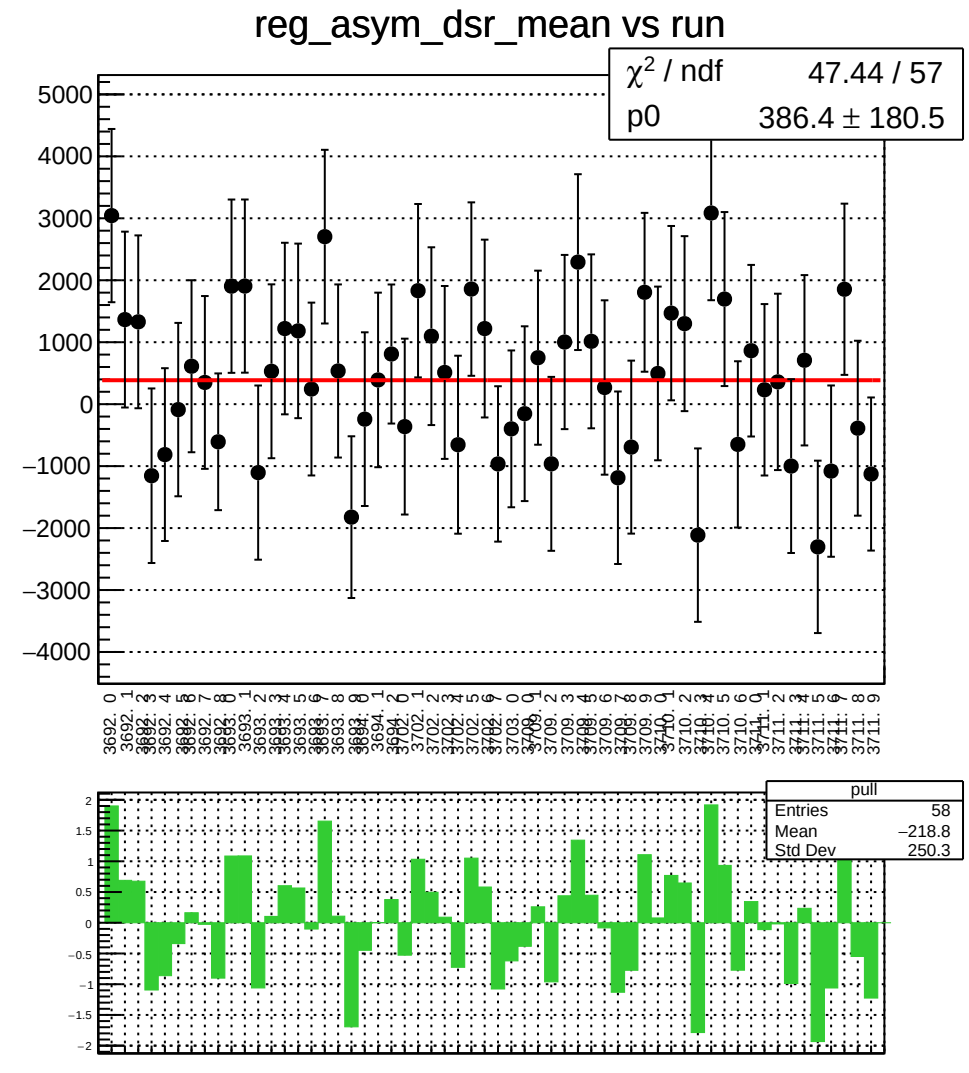

pull1D
Entries 58
Mean −0.002653
Std Dev 1.134
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

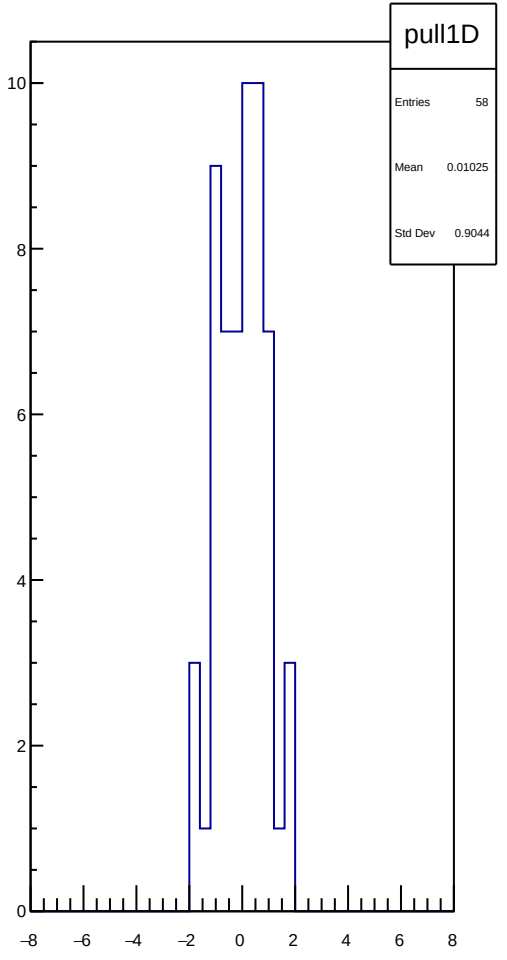

asym_dsl_correction_rms vs run
χ² / ndf 2.493e+04 / 57
p0 684.4 ± 0.6639
850
800
750
700
650
600
550

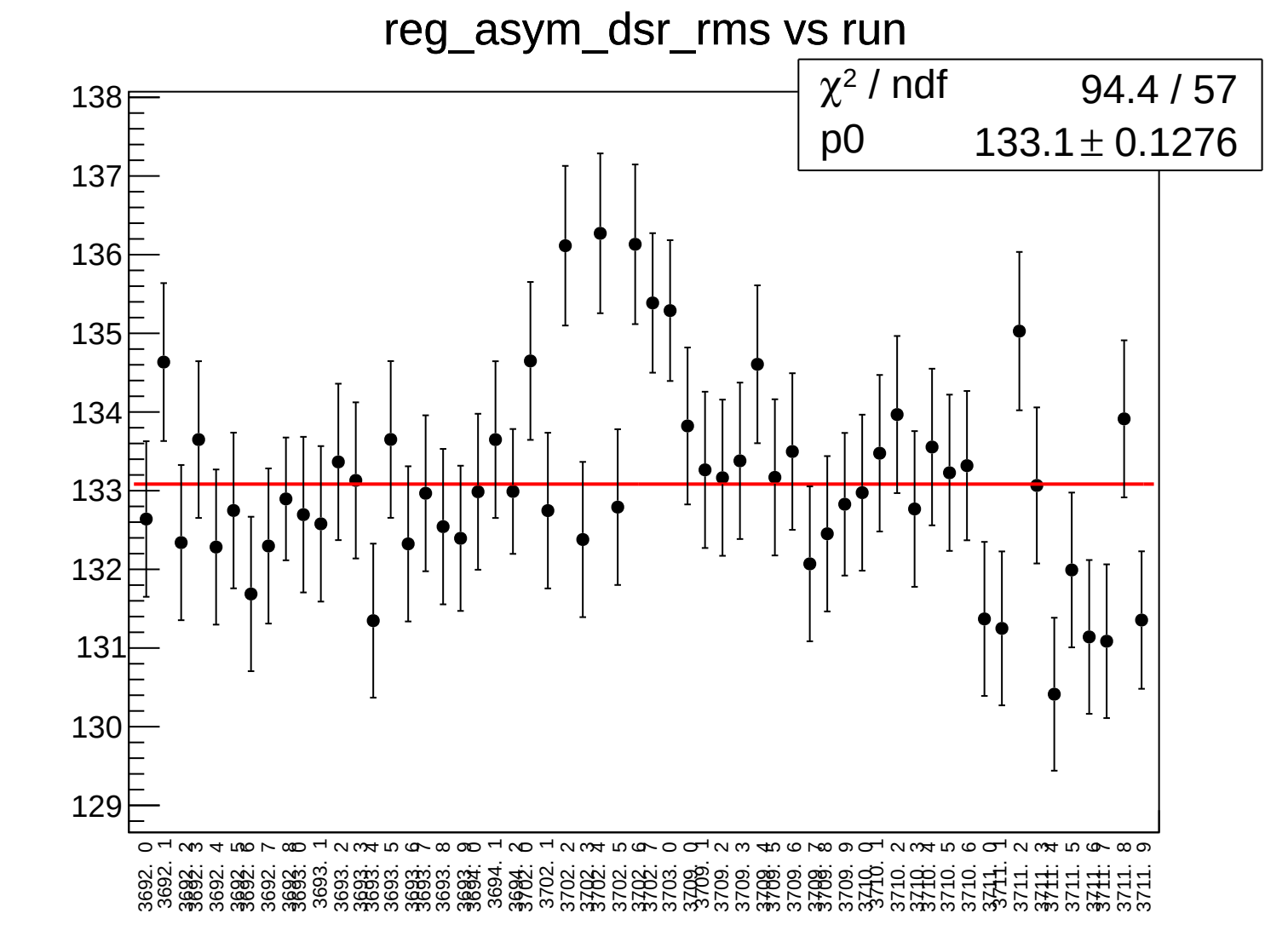

asym_dsl_mean vs run
χ² / ndf 75.54 / 57
p0 2125 ± 957.2
pull
Entries 58
Mean 4108
Std Dev 4071

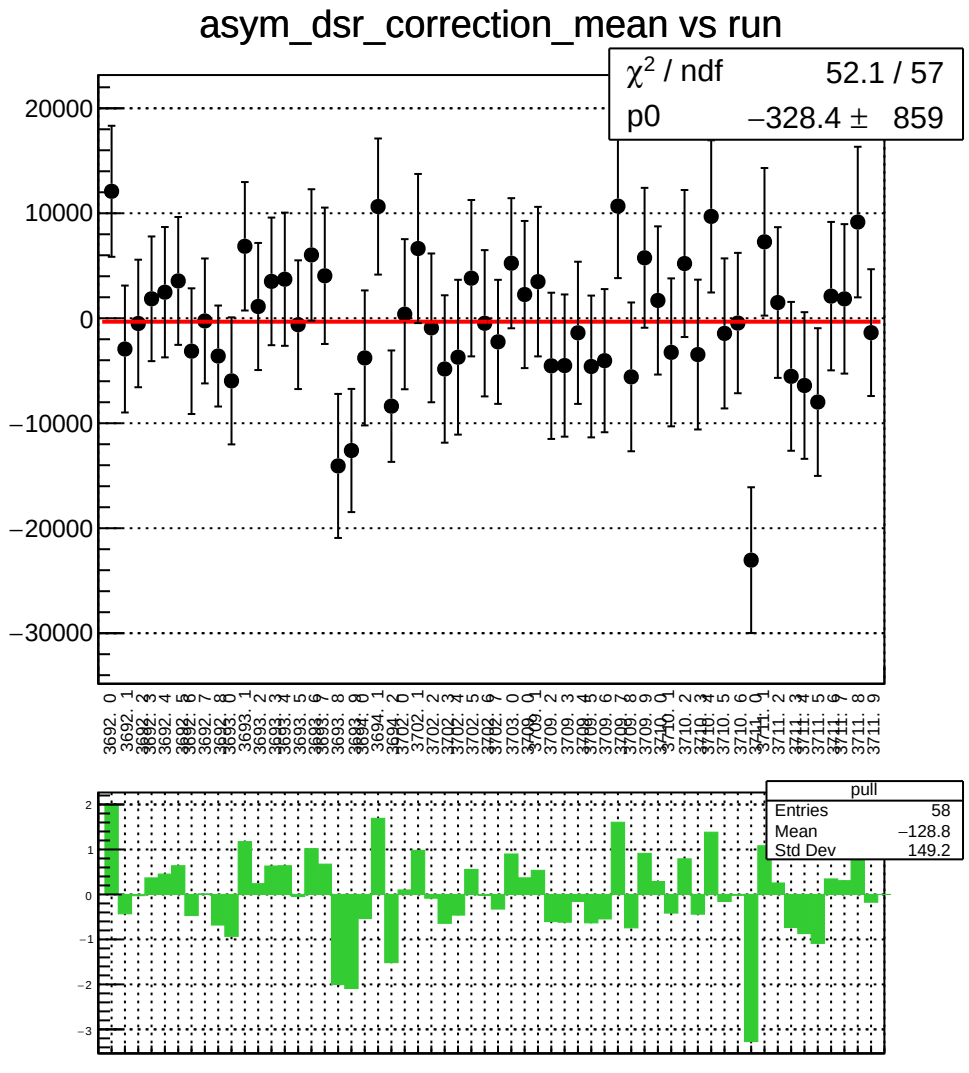

pull1D
Entries 58
Mean −0.0005684
Std Dev 1.141

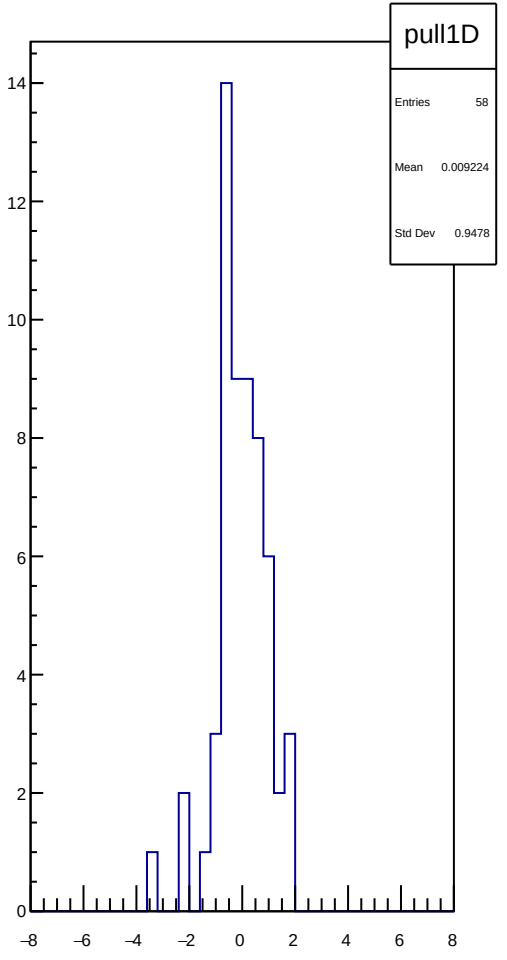

asym_dsl_rms vs run
χ² / ndf 2.318e+04 / 57
p0 698.3 ± 0.6768
900
850
800
750
700
650
600
550

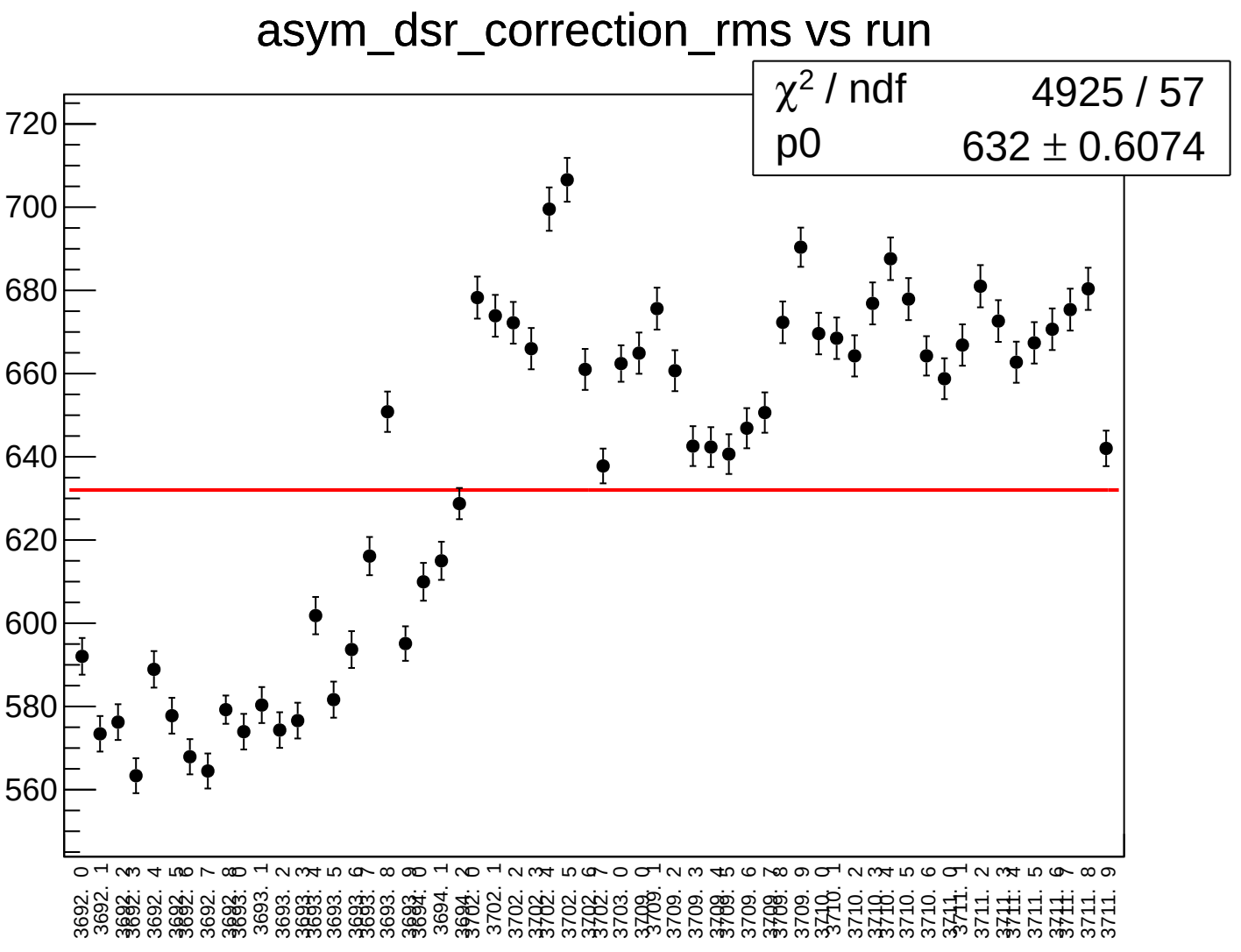

reg_asym_dsr_mean vs run
χ² / ndf 47.44 / 57
p0 386.4 ± 180.5
pull
Entries 58
Mean −218.8
Std Dev 250.3

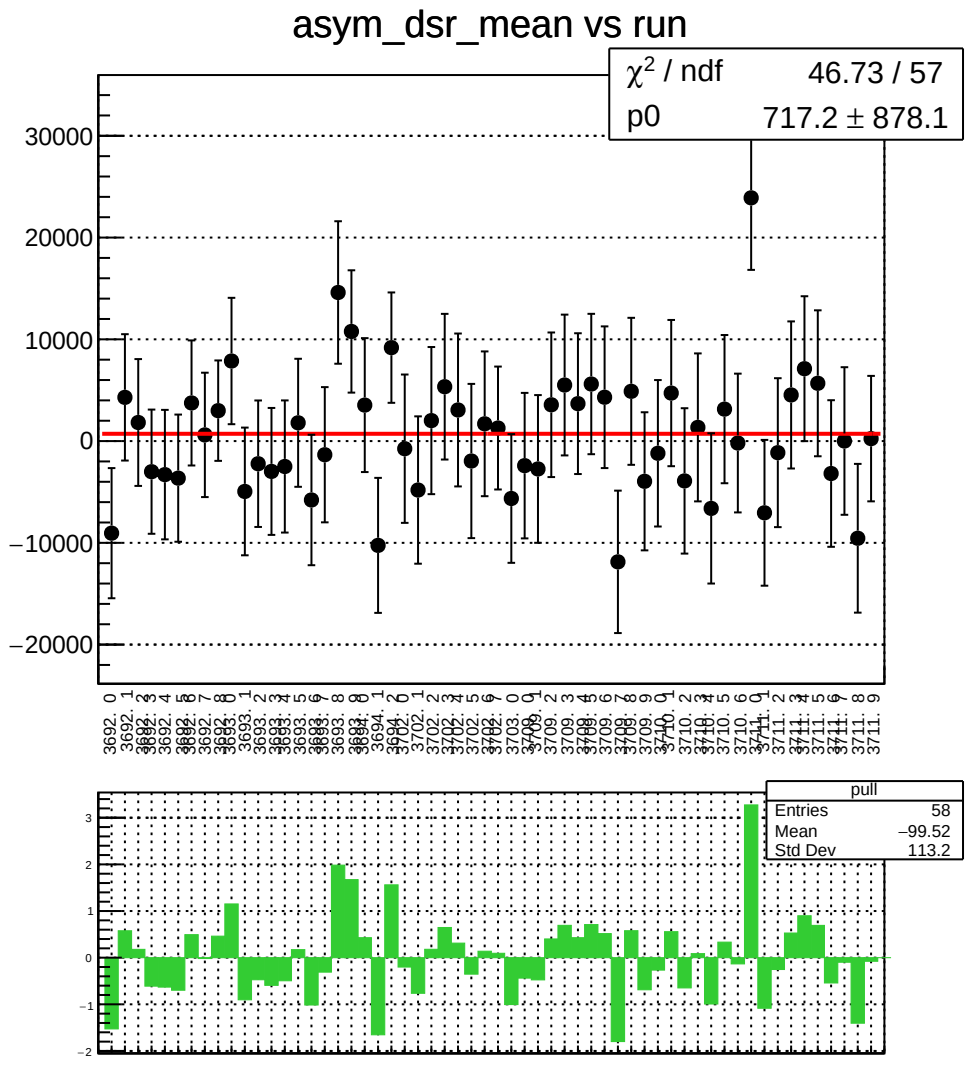

pull1D
Entries 58
Mean 0.01025
Std Dev 0.9044

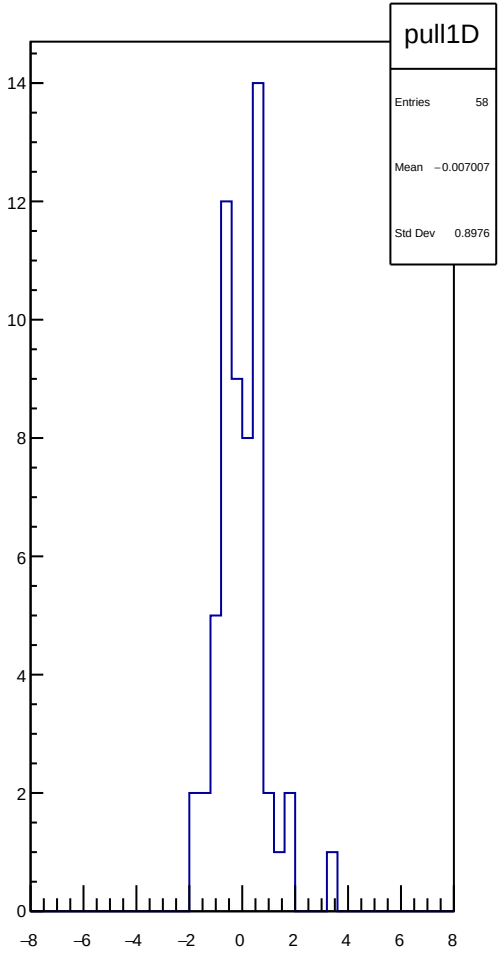

reg_asym_dsr_rms vs run
χ² / ndf 94.4 / 57
p0 133.1 ± 0.1276
138
137
136
135
134
133
132
131
130
129

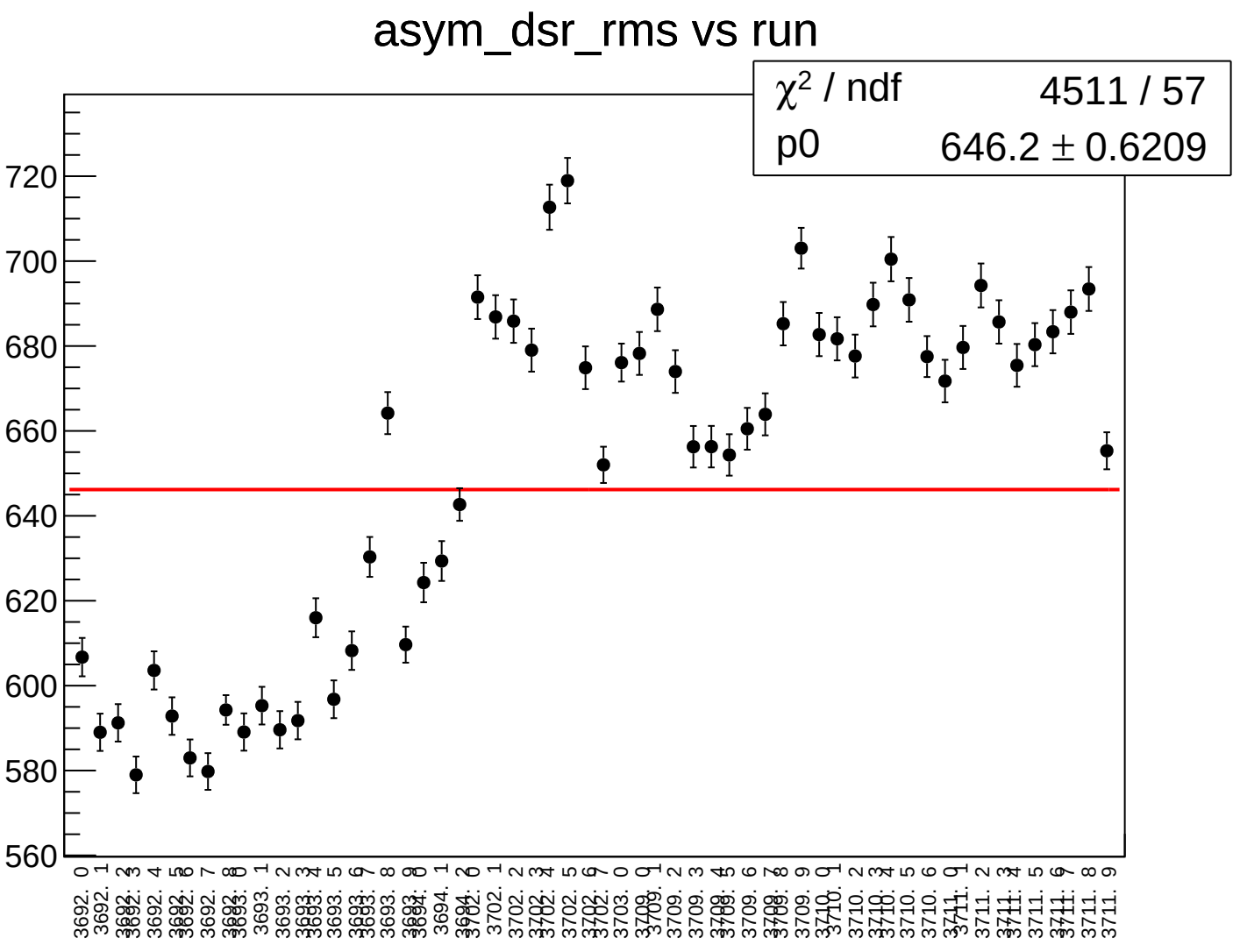

asym_dsr_correction_mean vs run
χ² / ndf 52.1 / 57
p0 −328.4 ± 859
pull
Entries 58
Mean −128.8
Std Dev 149.2

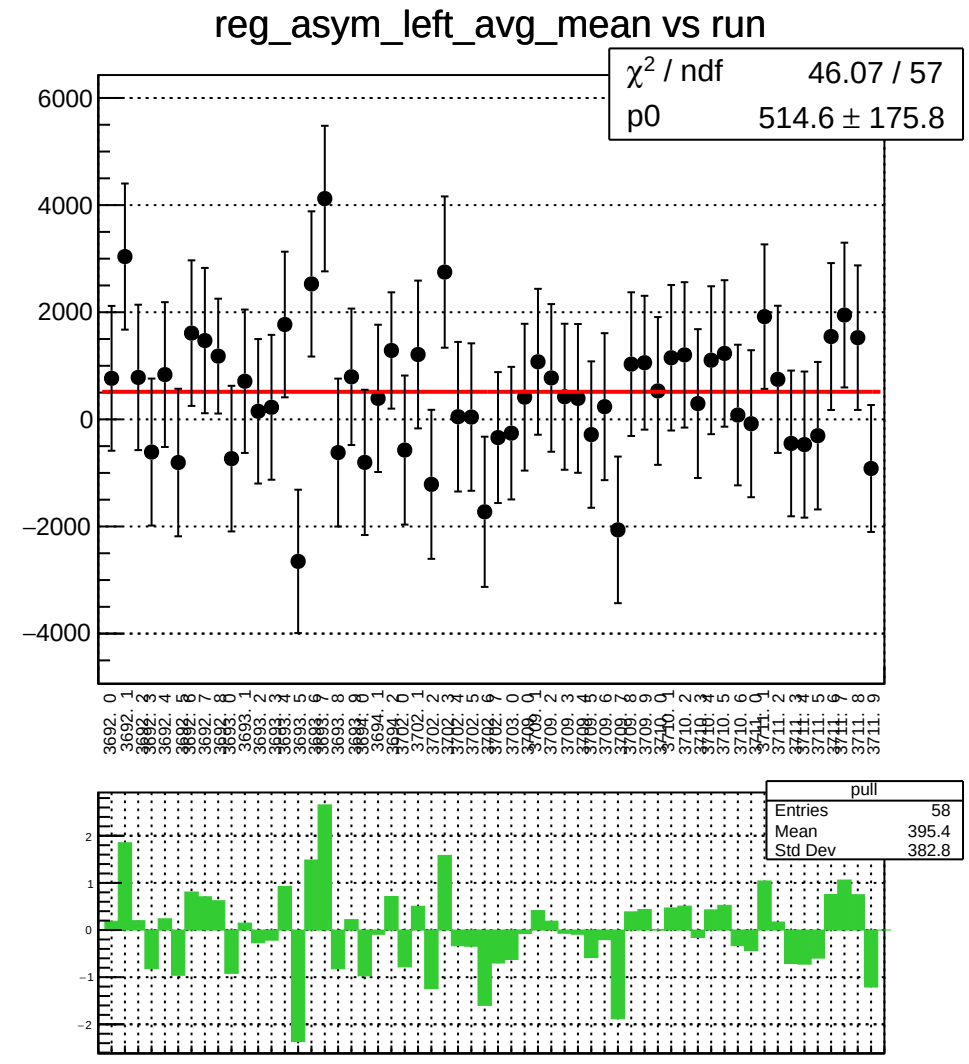

pull1D
Entries 58
Mean 0.009224
Std Dev 0.9478

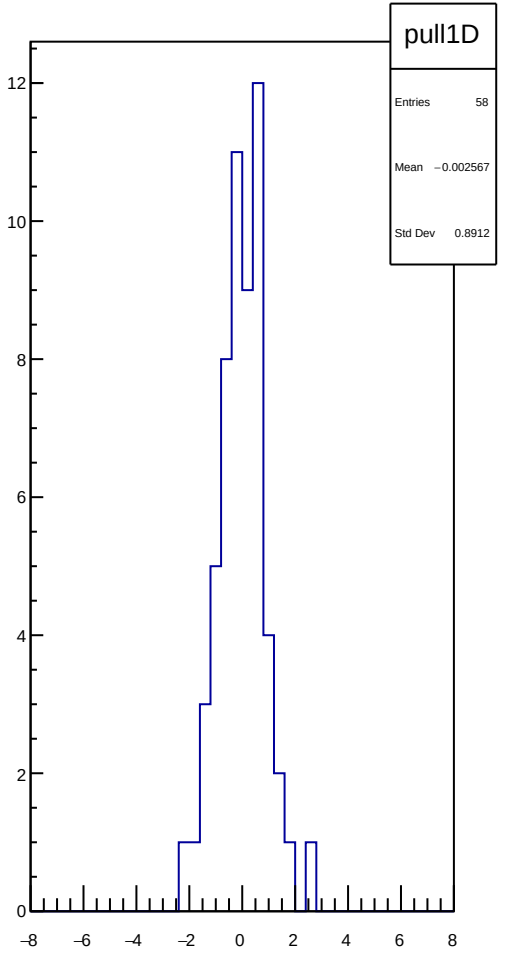

asym_dsr_correction_rms vs run
χ² / ndf 4925 / 57
p0 632 ± 0.6074
720
700
680
660
640
620
600
580
560

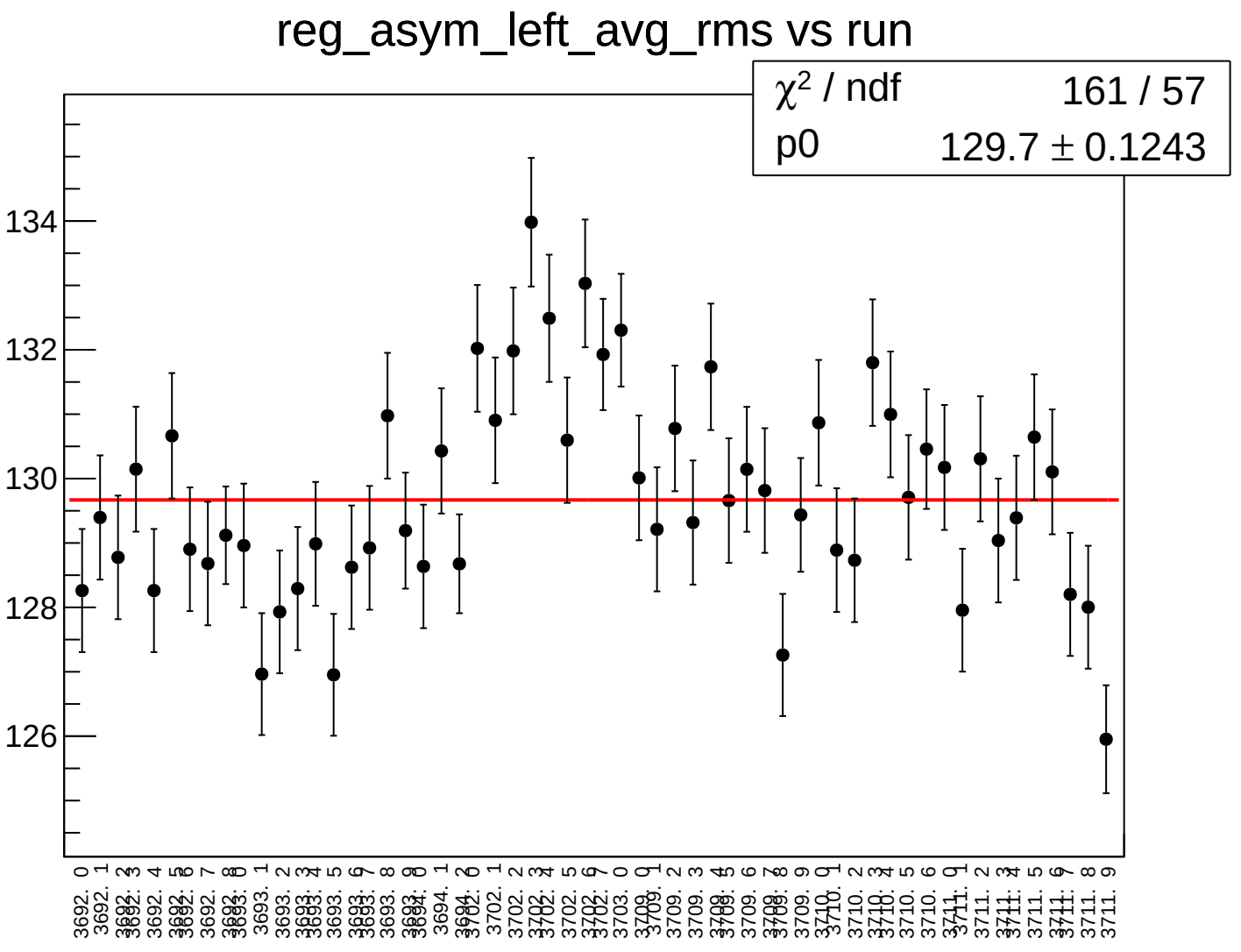

asym_dsr_mean vs run
χ^2 / ndf 46.73 / 57
p0 717.2 ± 878.1
30000
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −99.52
Std Dev 113.2
3
2
1
0
−1
−2

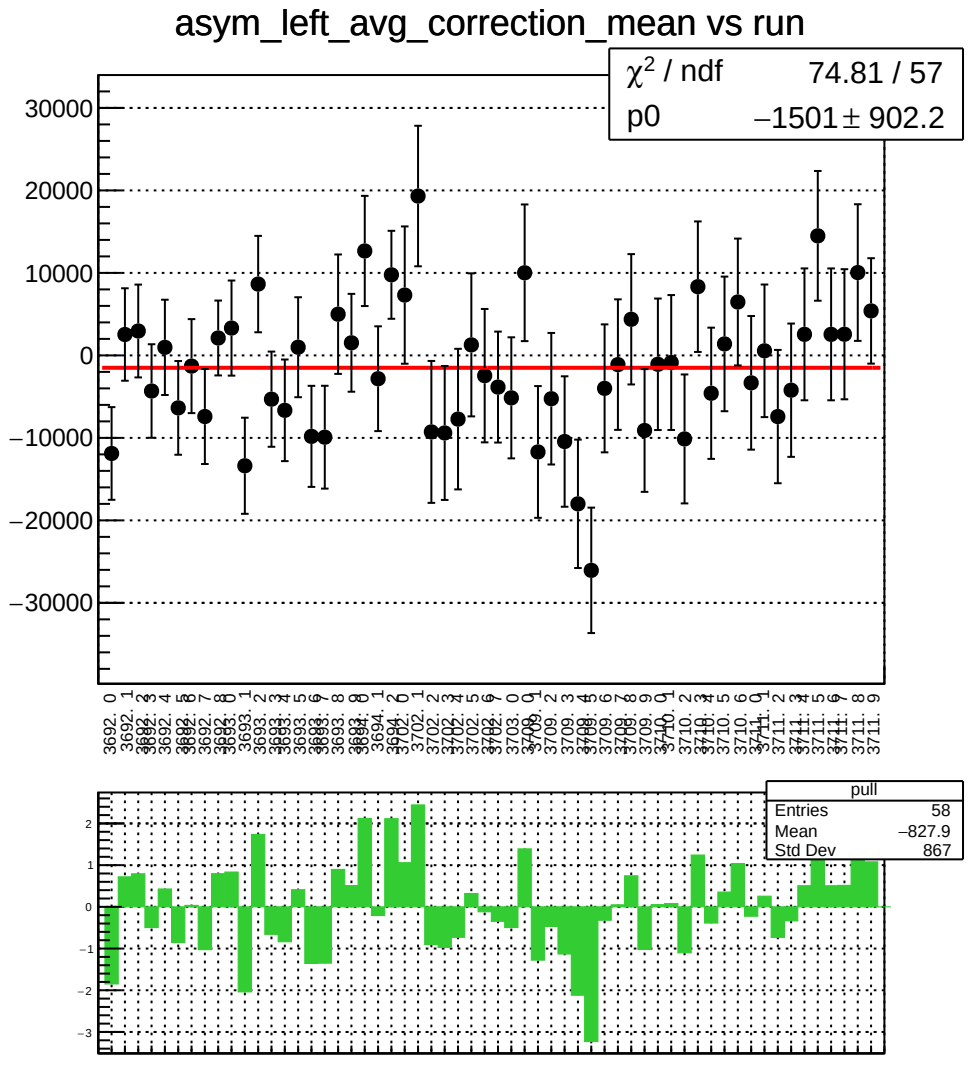

pull1D
Entries 58
Mean −0.007007
Std Dev 0.8976
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

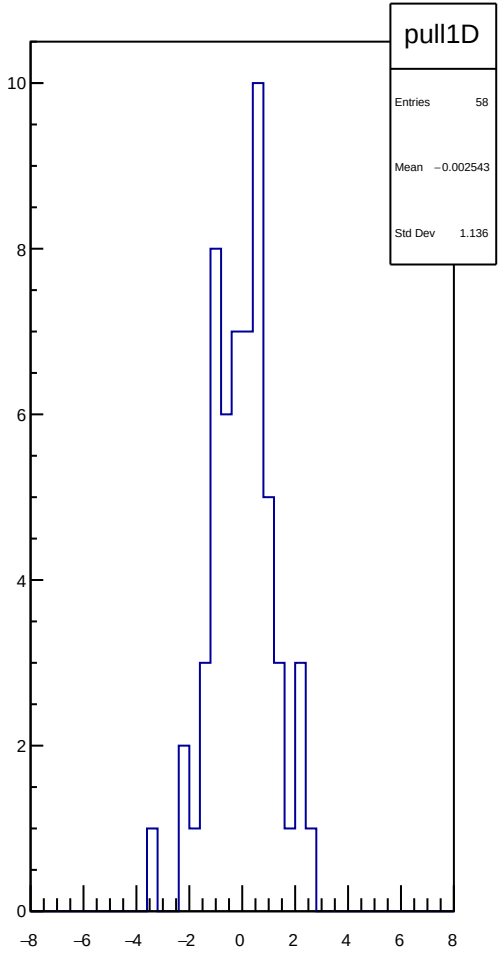

asym_dsr_rms vs run
χ² / ndf 4511 / 57
p0 646.2 ± 0.6209
720
700
680
660
640
620
600
580
560

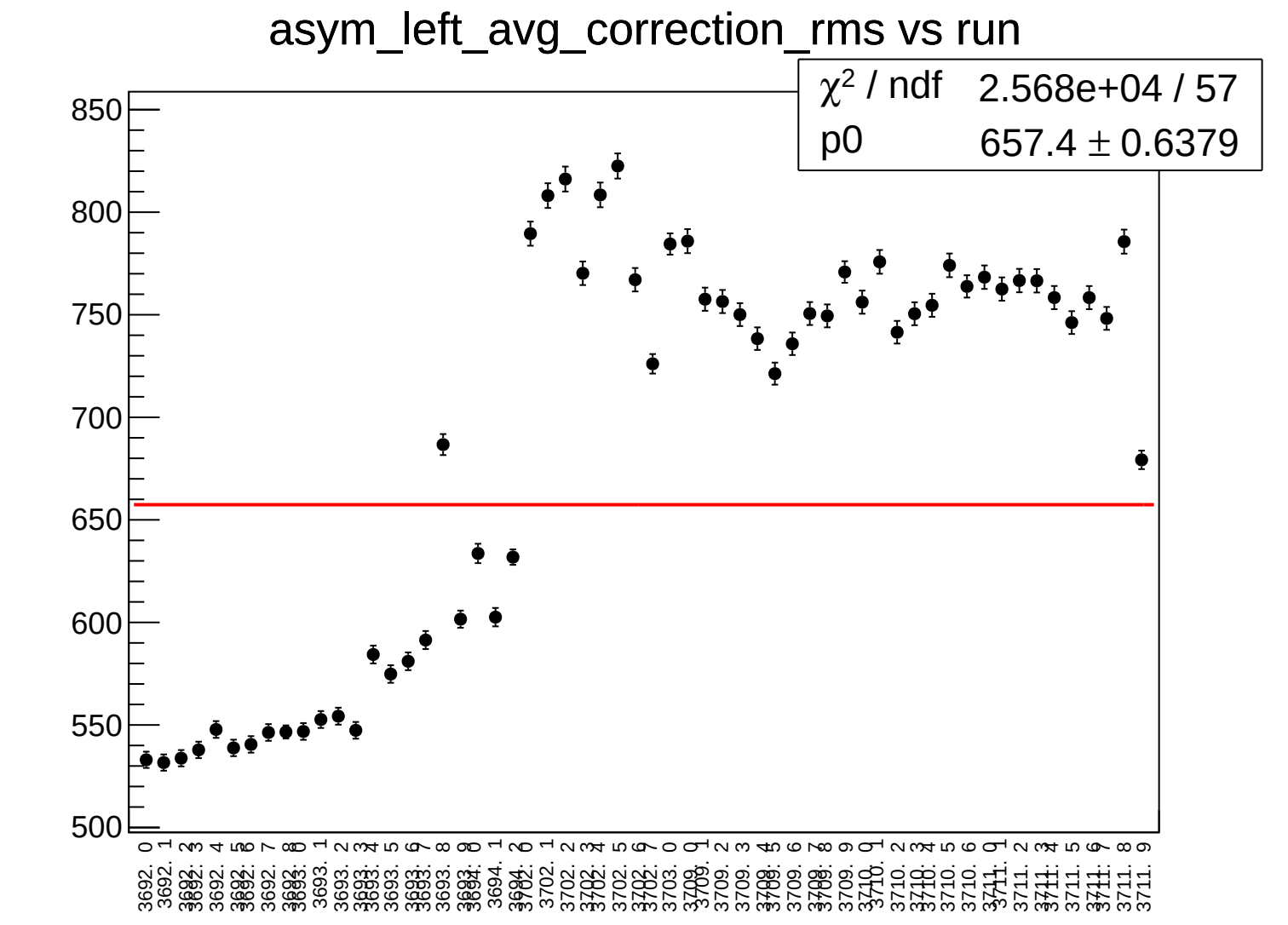

reg_asym_left_avg_mean vs run
χ² / ndf 46.07 / 57
p0 514.6 ± 175.8
pull
Entries 58
Mean 395.4
Std Dev 382.8

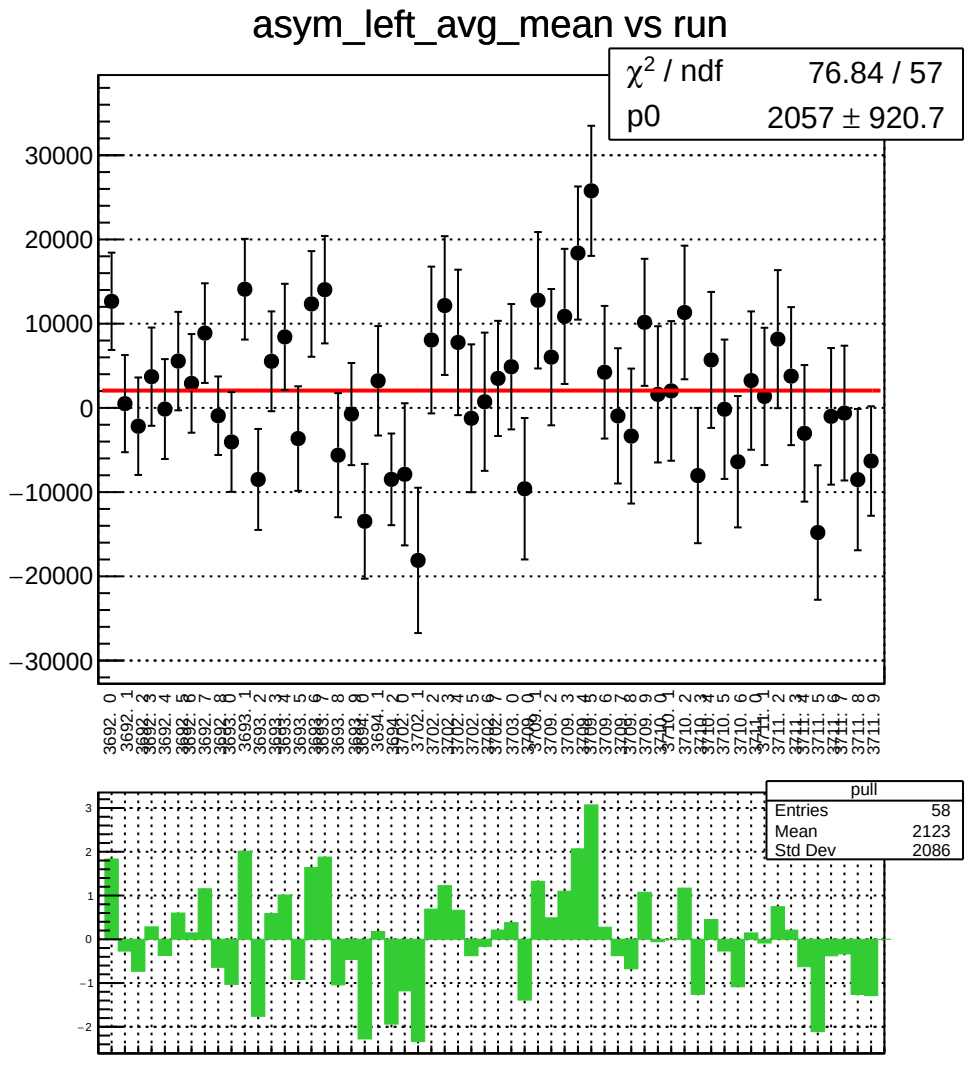

pull1D
Entries 58
Mean −0.002567
Std Dev 0.8912

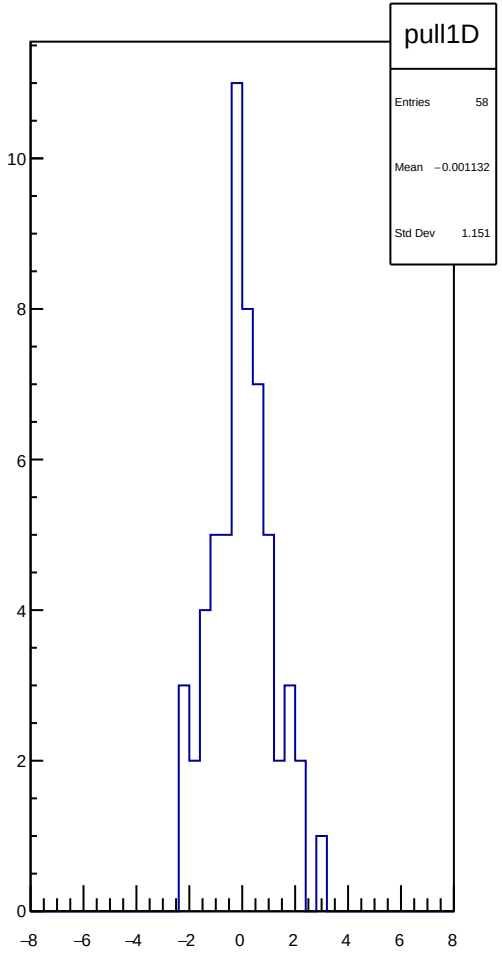

reg_asym_left_avg_rms vs run
χ² / ndf 161 / 57
p0 129.7 ± 0.1243
134
132
130
128
126

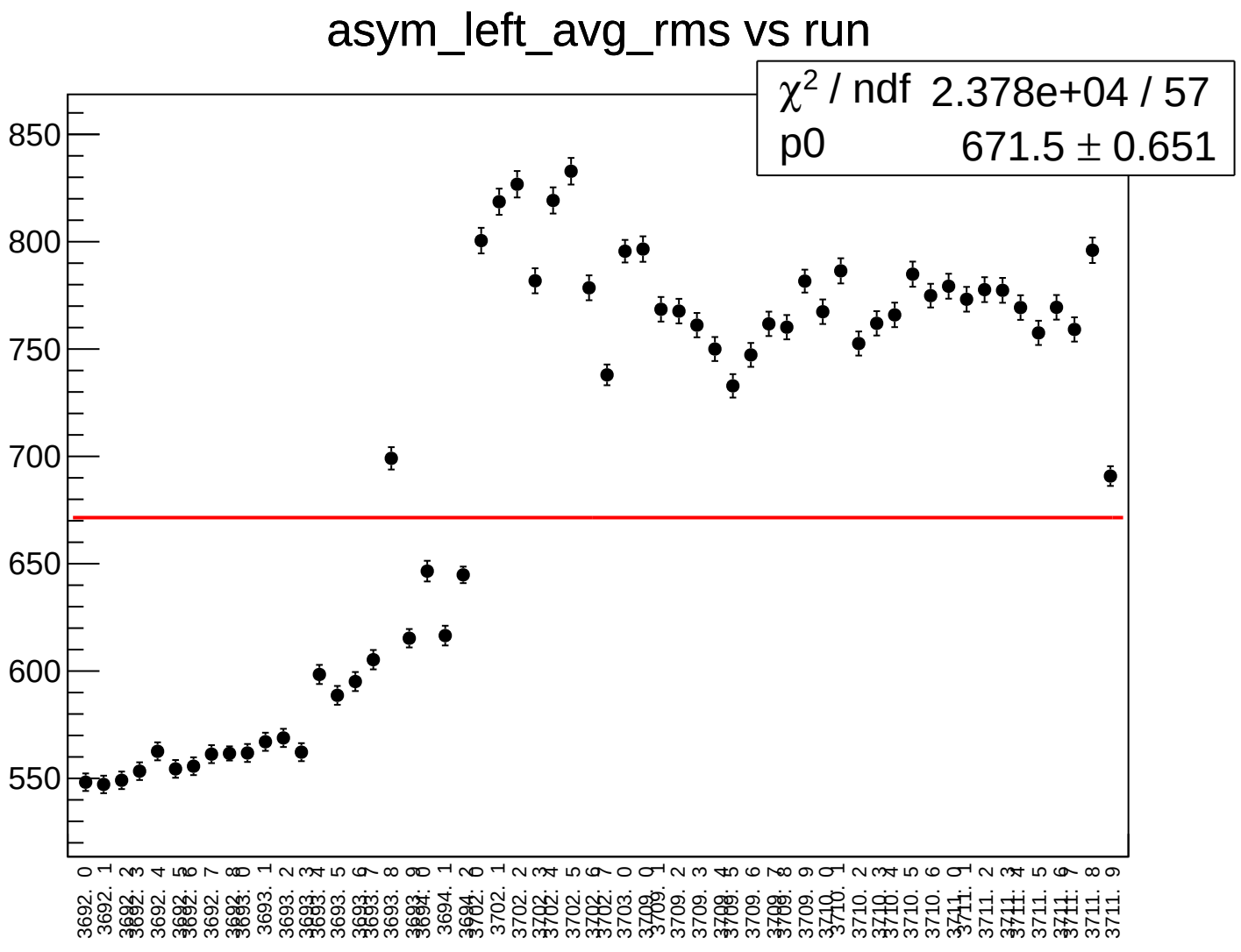

asym_left_avg_correction_mean vs run
χ² / ndf 74.81 / 57
p0 −1501 ± 902.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean −827.9
Std Dev 867
2
1
0
−1
−2
−3

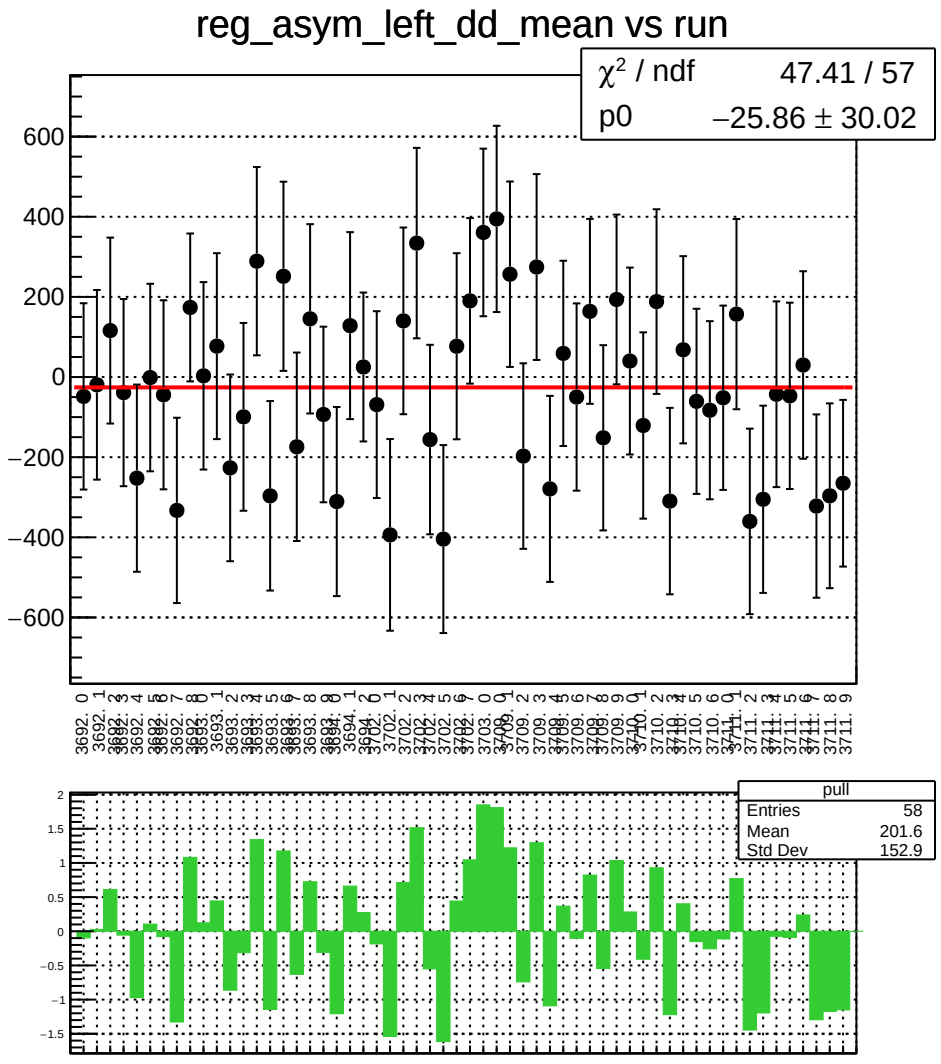

pull1D
Entries 58
Mean −0.002543
Std Dev 1.136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

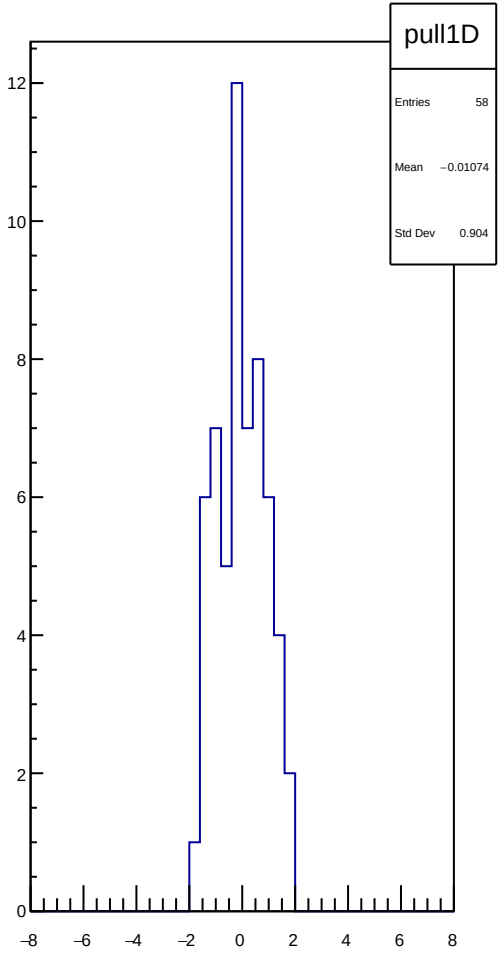

asym_left_avg_correction_rms vs run
χ² / ndf 2.568e+04 / 57
p0 657.4 ± 0.6379
850
800
750
700
650
600
550
500

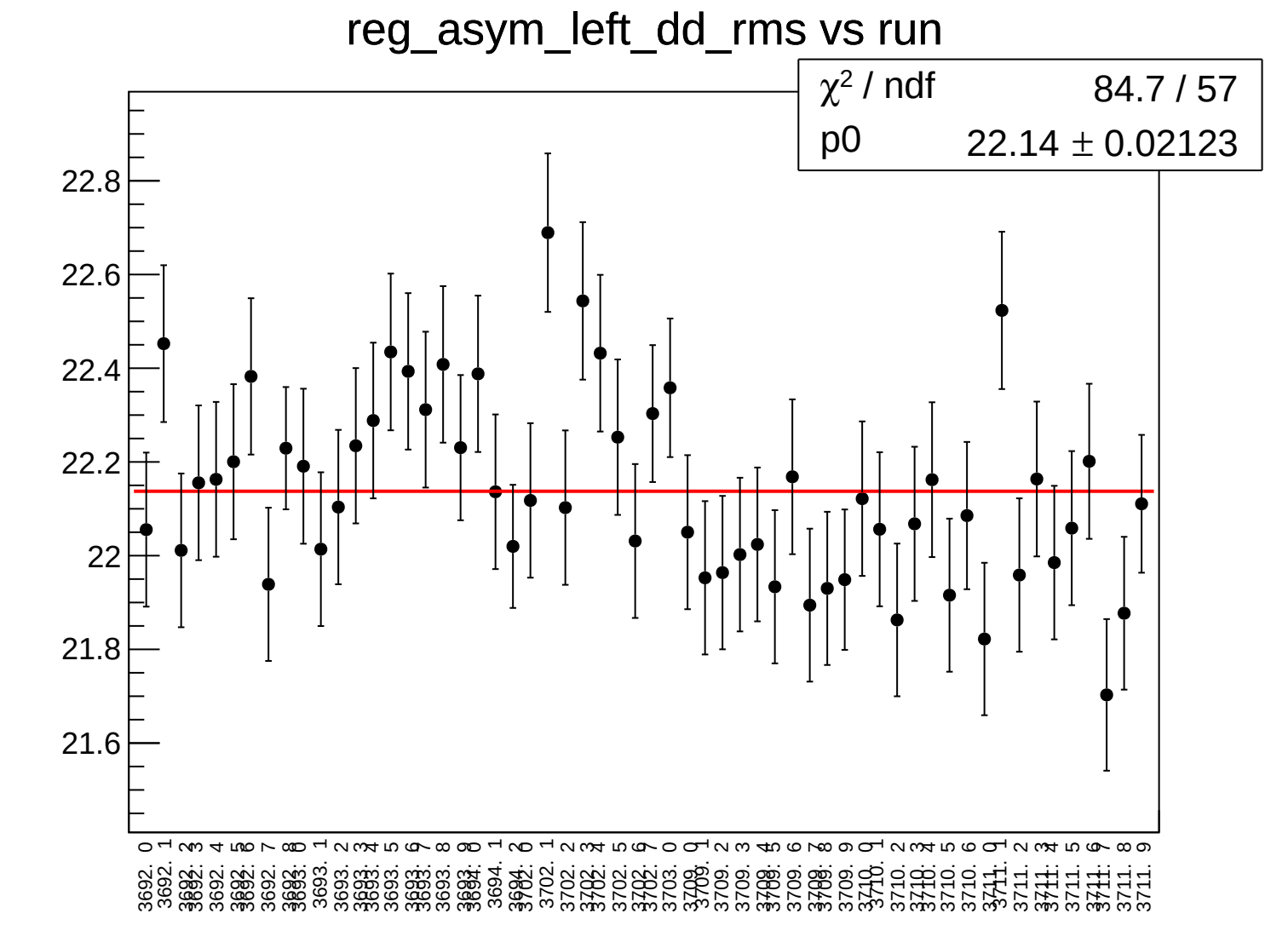

asym_left_avg_mean vs run
χ² / ndf 76.84 / 57
p0 2057 ± 920.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean 2123
Std Dev 2086
3
2
1
0
−1
−2

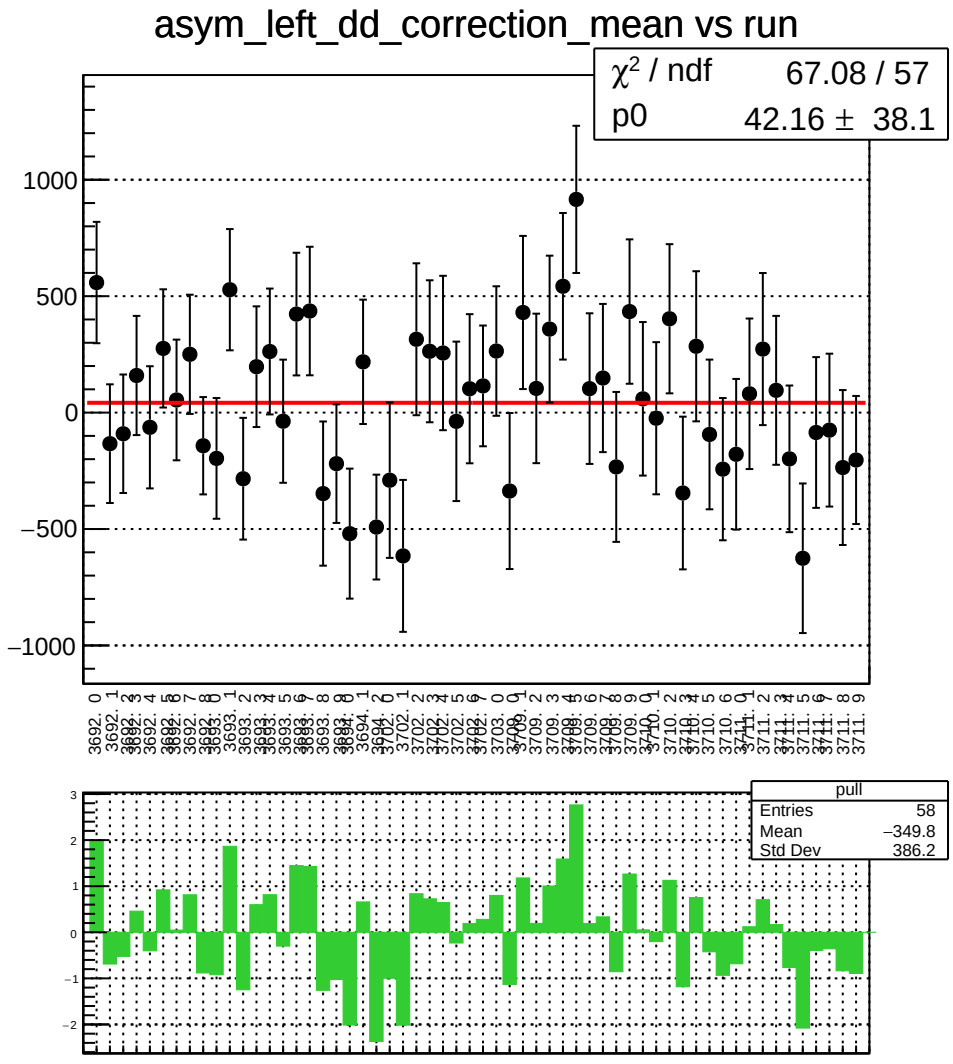

pull1D
Entries 58
Mean −0.001132
Std Dev 1.151
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

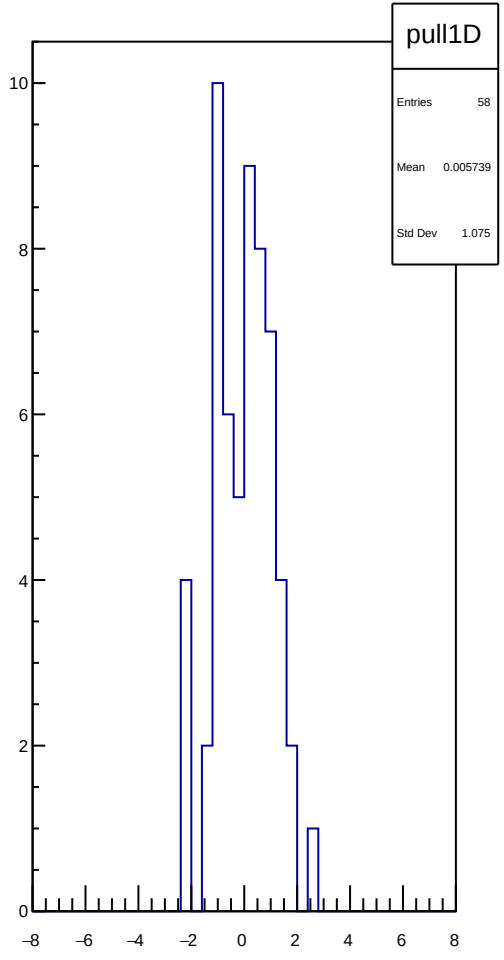

asym_left_avg_rms vs run
χ² / ndf 2.378e+04 / 57
p0 671.5 ± 0.651
850
800
750
700
650
600
550

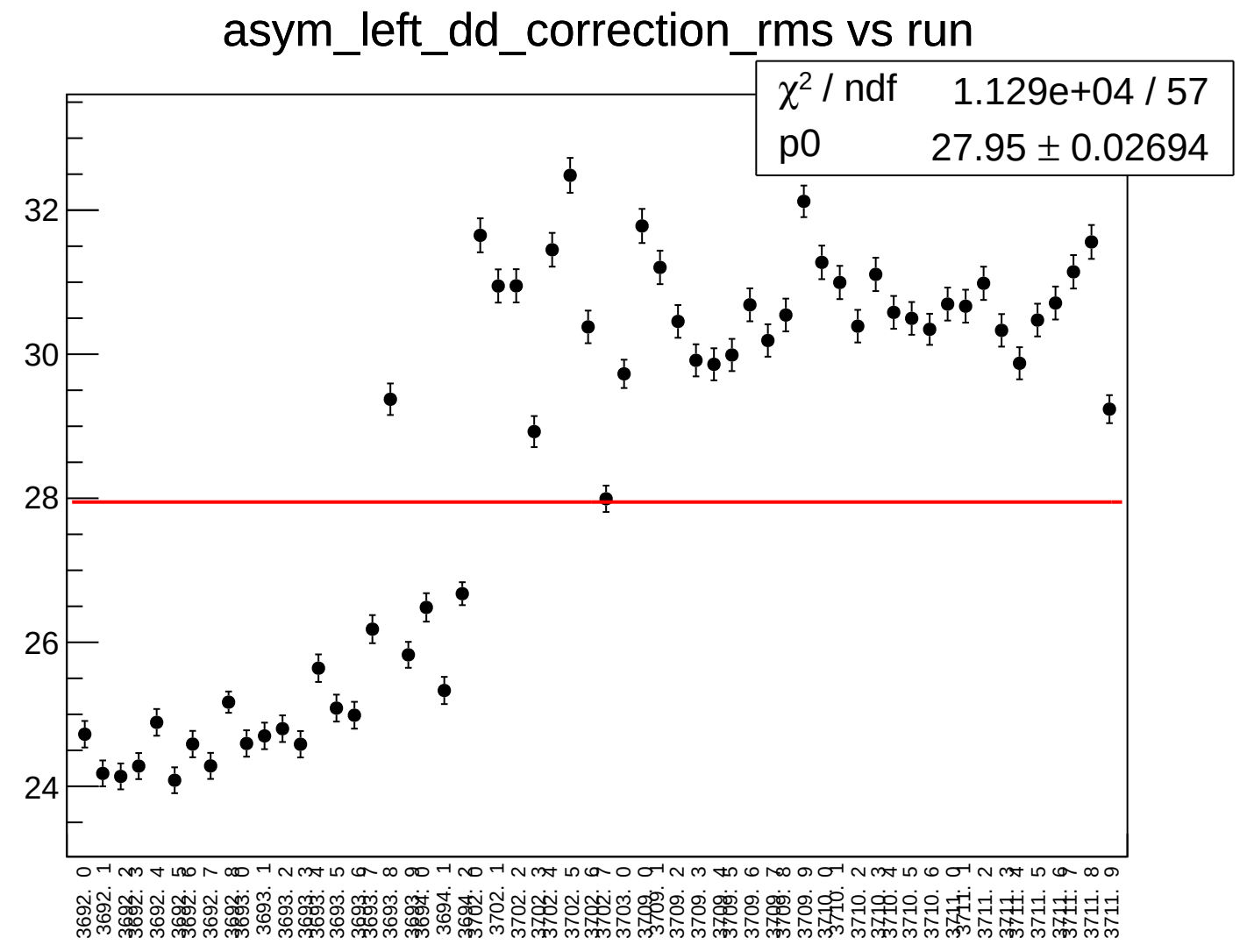

reg_asym_left_dd_mean vs run
χ^2 / ndf 47.41 / 57
p0 −25.86 ± 30.02
pull
Entries 58
Mean 201.6
Std Dev 152.9

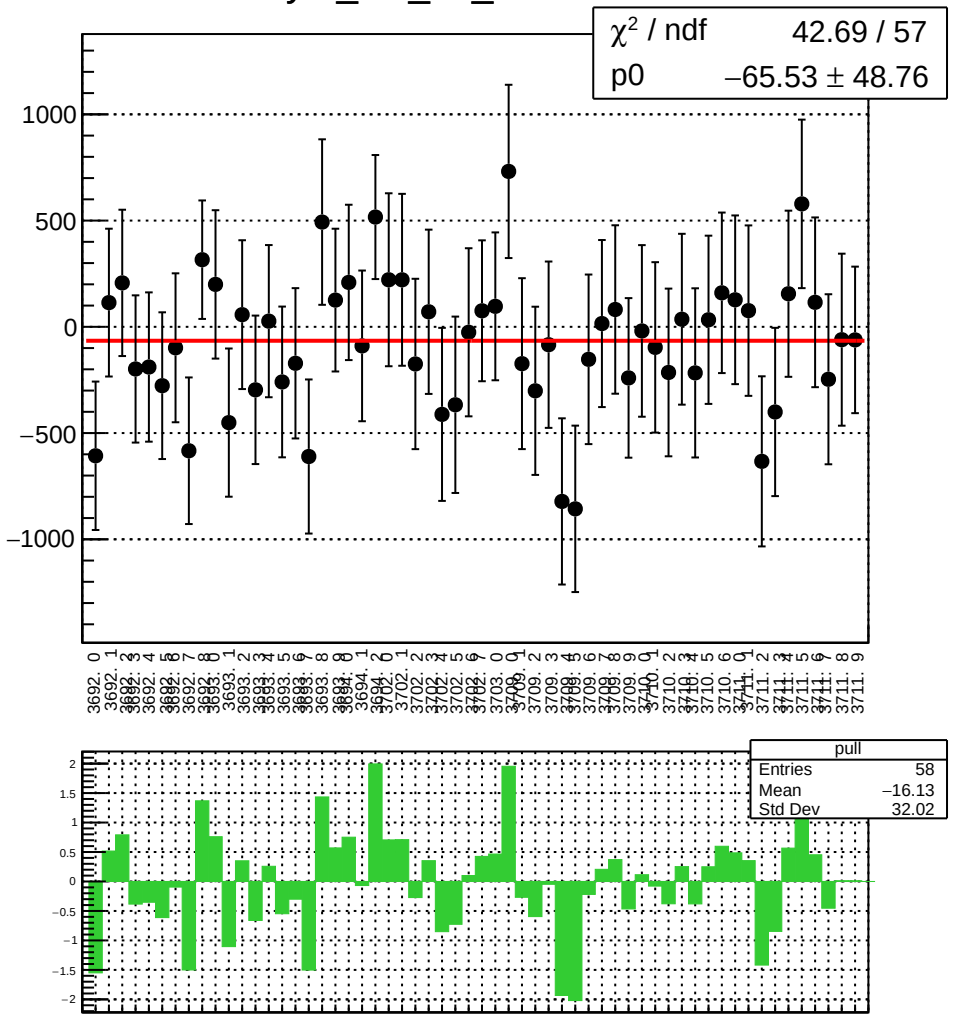

pull1D
Entries 58
Mean −0.01074
Std Dev 0.904

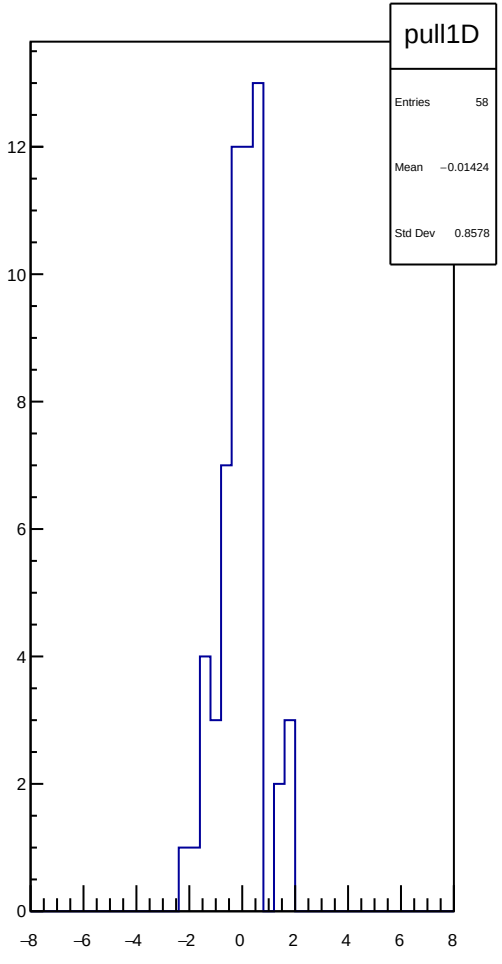

reg_asym_left_dd_rms vs run
χ² / ndf 84.7 / 57
p0 22.14 ± 0.02123
22.8
22.6
22.4
22.2
22
21.8
21.6

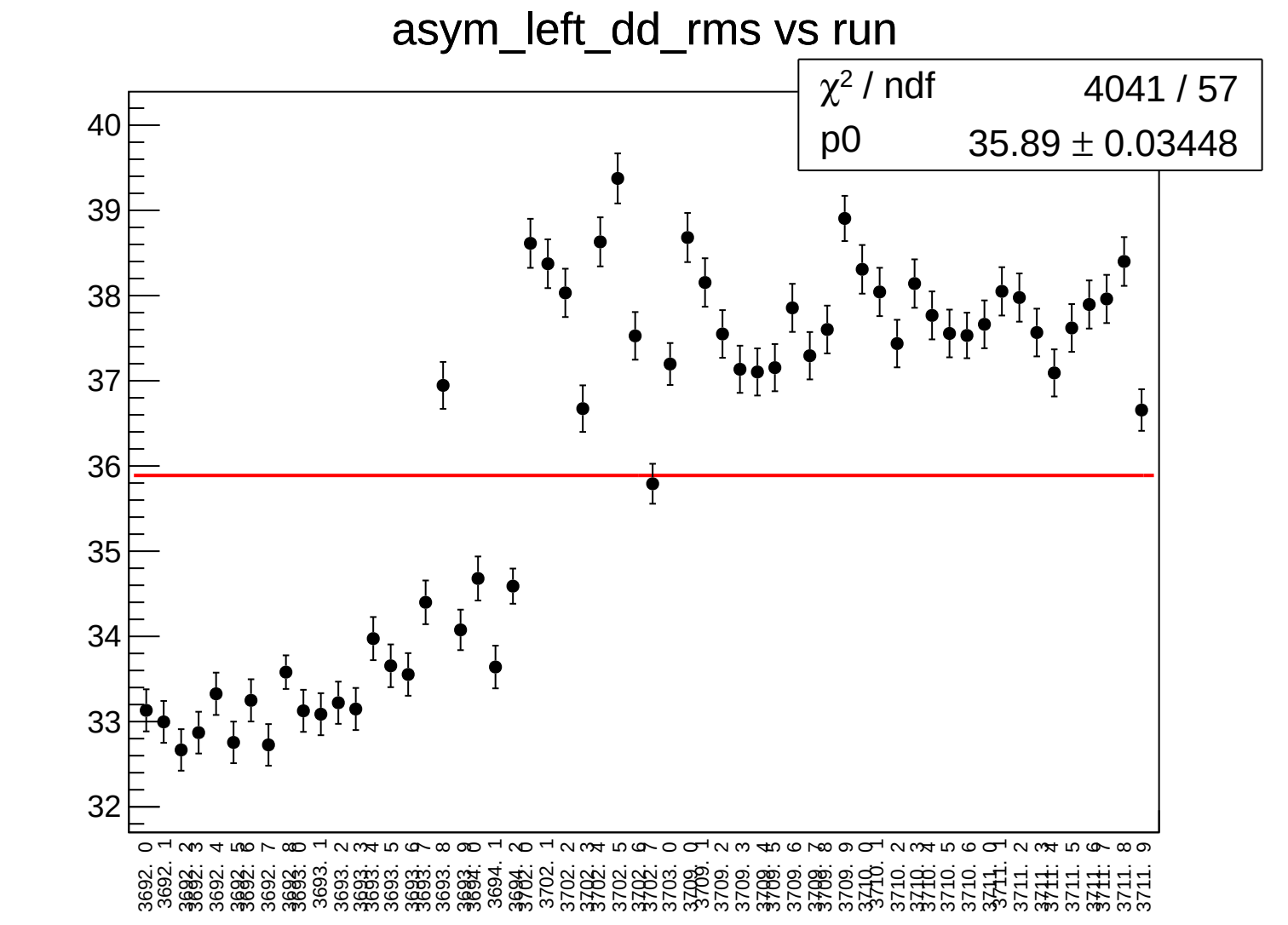

asym_left_dd_correction_mean vs run
χ² / ndf 67.08 / 57
p0 42.16 ± 38.1
1000
500
0
−500
−1000
pull
Entries 58
Mean −349.8
Std Dev 386.2
3
2
1
0
−1
−2

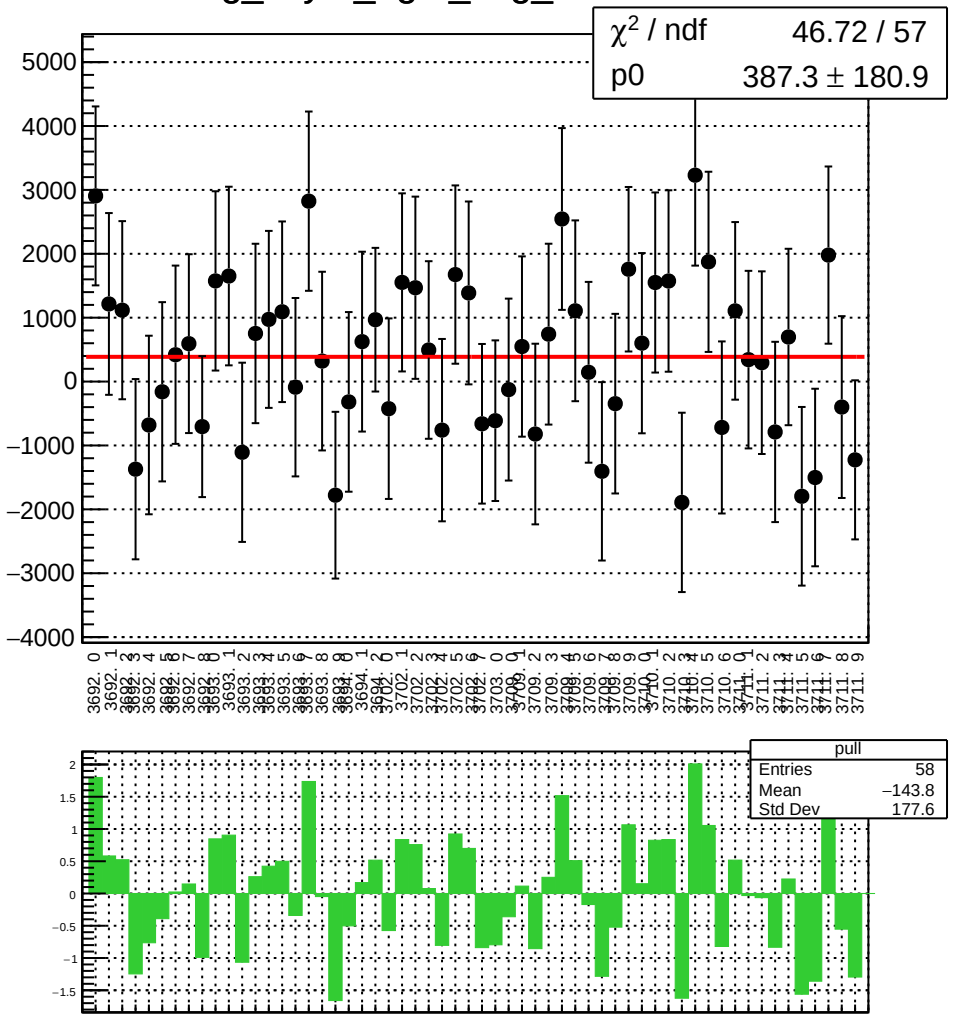

pull1D
Entries 58
Mean 0.005739
Std Dev 1.075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

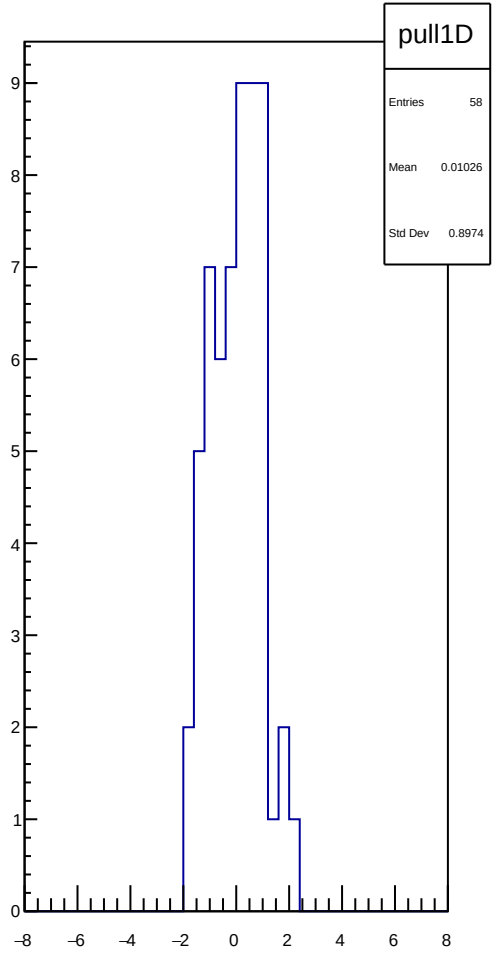

asym_left_dd_correction_rms vs run
χ² / ndf 1.129e+04 / 57
p0 27.95 ± 0.02694
32
30
28
26
24

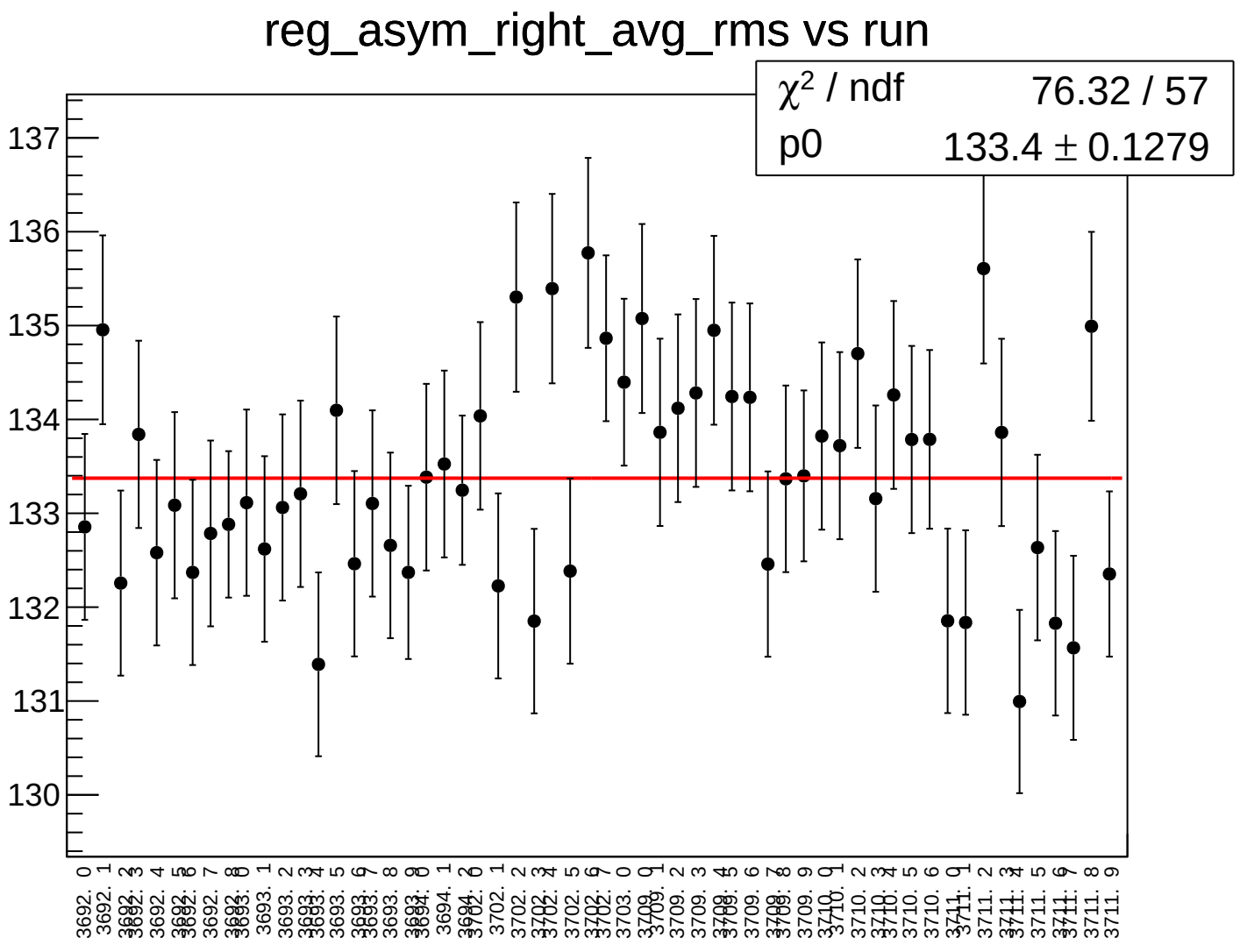

asym_left_dd_mean vs run
χ² / ndf 42.69 / 57
p0 −65.53 ± 48.76
1000
500
0
−500
−1000
pull
Entries 58
Mean −16.13
Std Dev 32.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

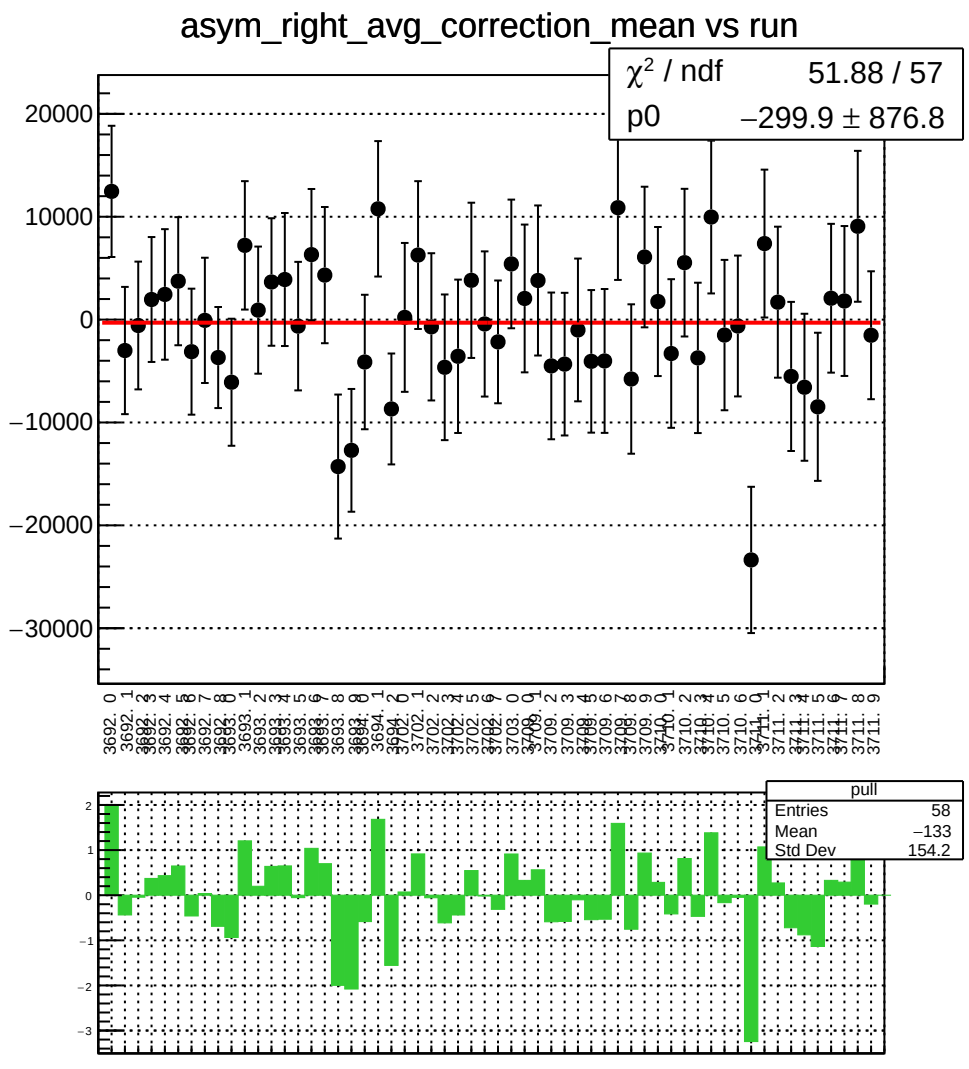

pull1D
Entries 58
Mean −0.01424
Std Dev 0.8578
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

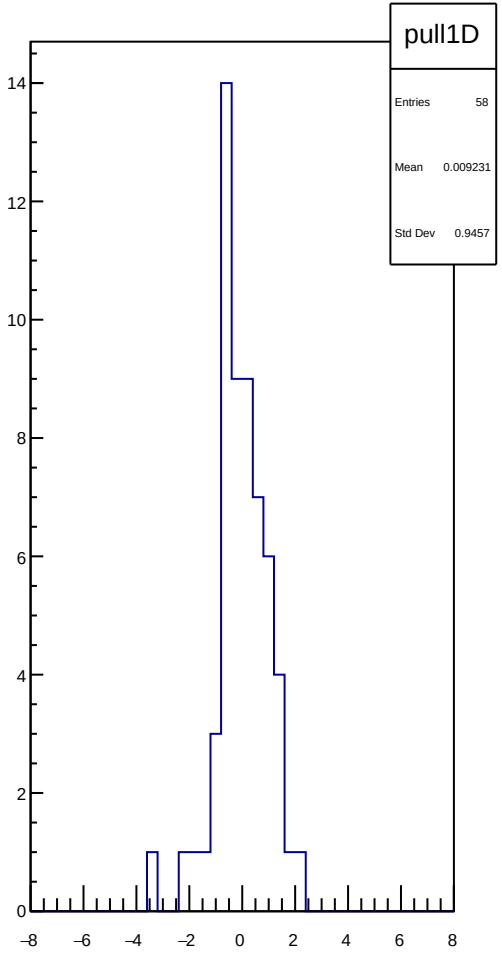

asym_left_dd_rms vs run
χ² / ndf 4041 / 57
p0 35.89 ± 0.03448
40
39
38
37
36
35
34
33
32

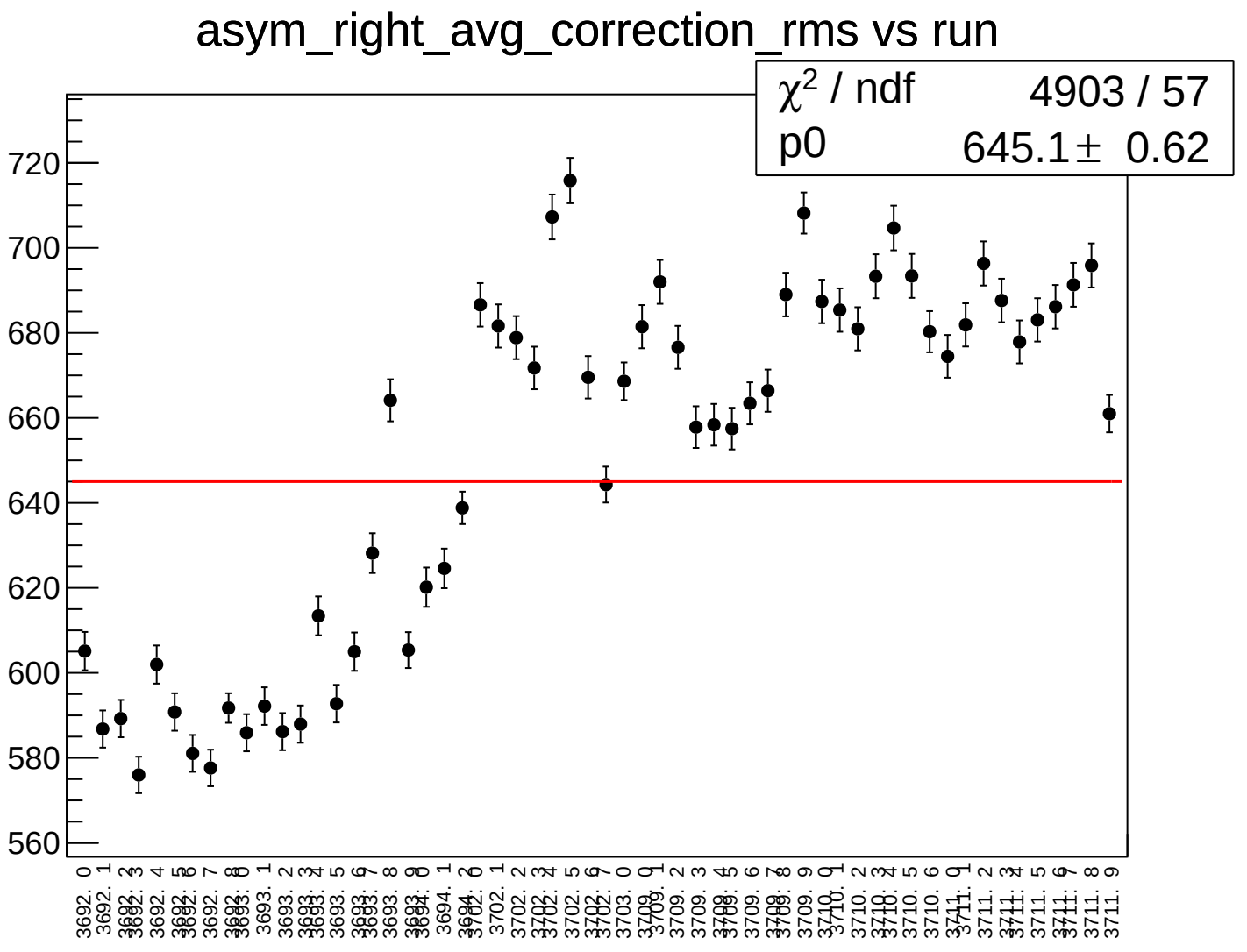

reg_asym_right_avg_mean vs run
χ² / ndf 46.72 / 57
p0 387.3 ± 180.9
pull
Entries 58
Mean −143.8
Std Dev 177.6

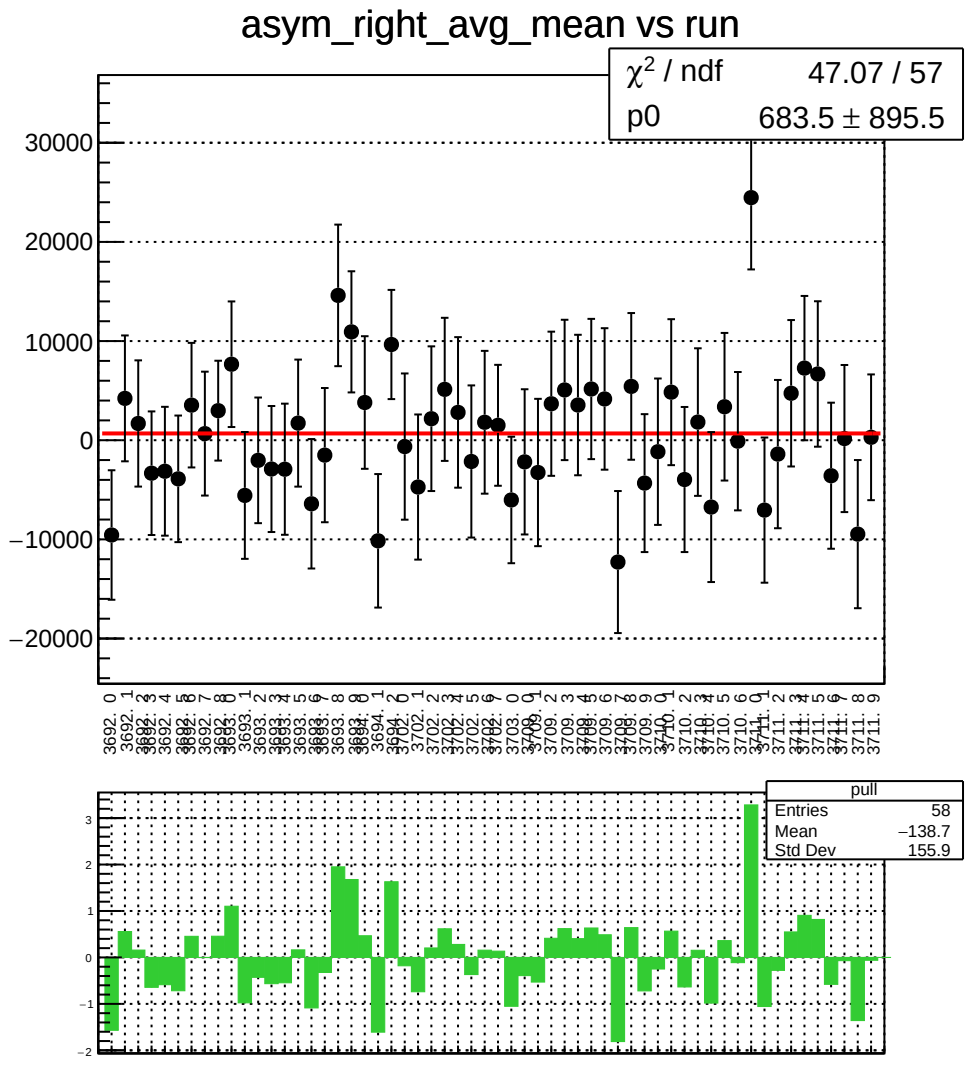

pull1D
Entries 58
Mean 0.01026
Std Dev 0.8974

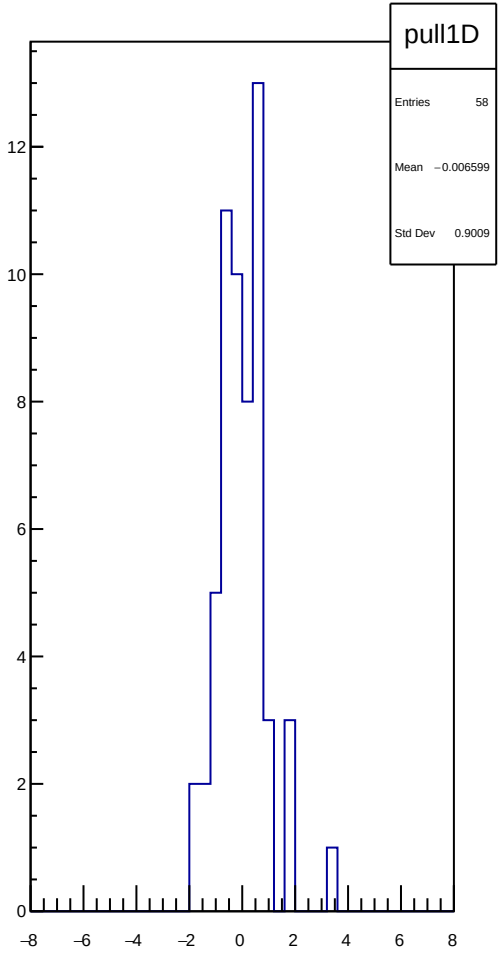

reg_asym_right_avg_rms vs run
χ² / ndf 76.32 / 57
p0 133.4 ± 0.1279
137
136
135
134
133
132
131
130

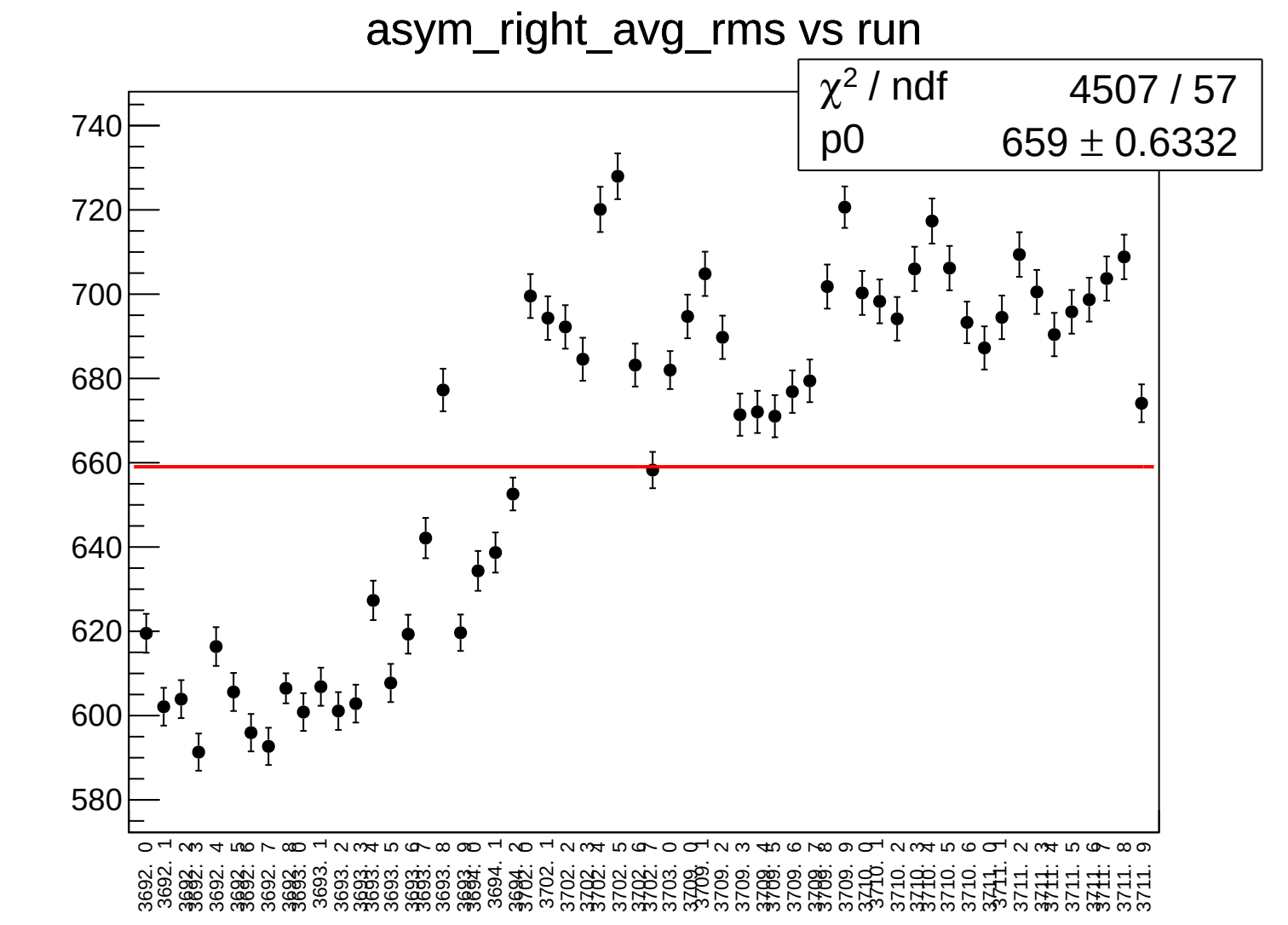

asym_right_avg_correction_mean vs run
χ² / ndf 51.88 / 57
p0 −299.9 ± 876.8
pull
Entries 58
Mean −133
Std Dev 154.2

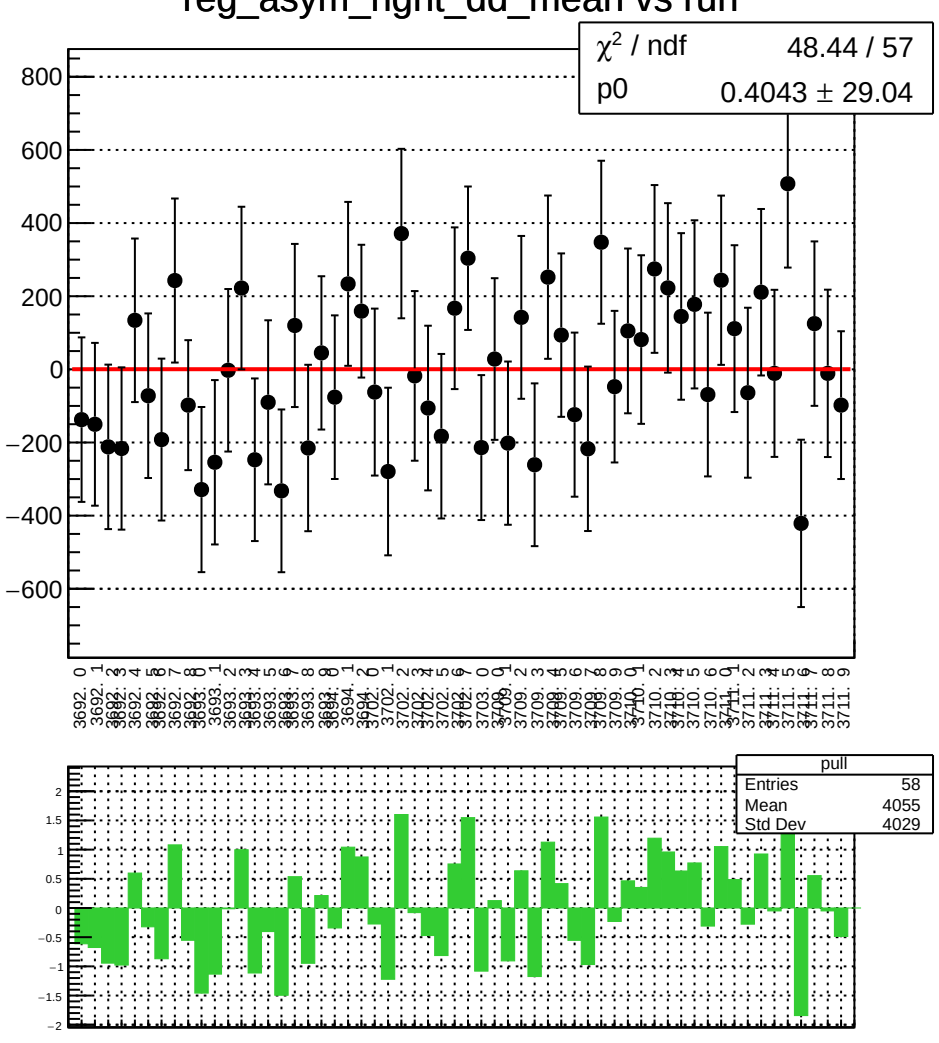

pull1D
Entries 58
Mean 0.009231
Std Dev 0.9457

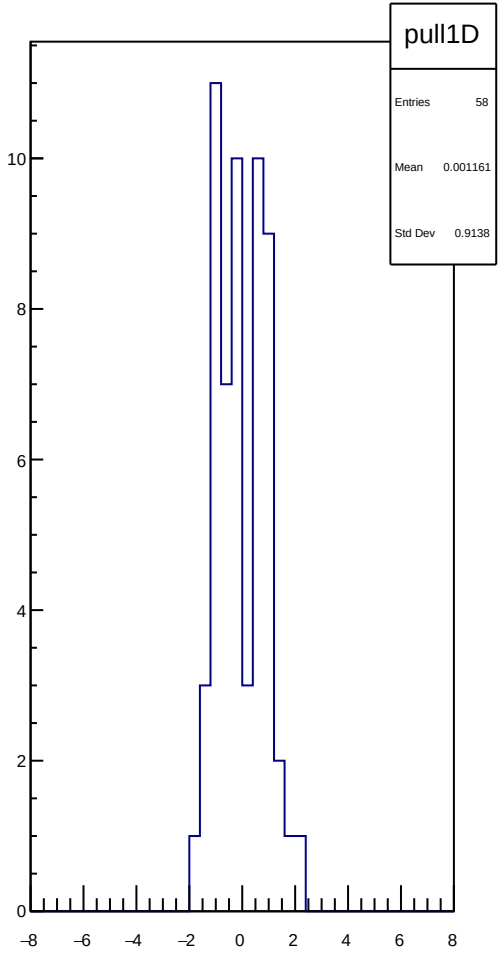

asym_right_avg_correction_rms vs run
χ² / ndf 4903 / 57
p0 645.1 ± 0.62
720
700
680
660
640
620
600
580
560

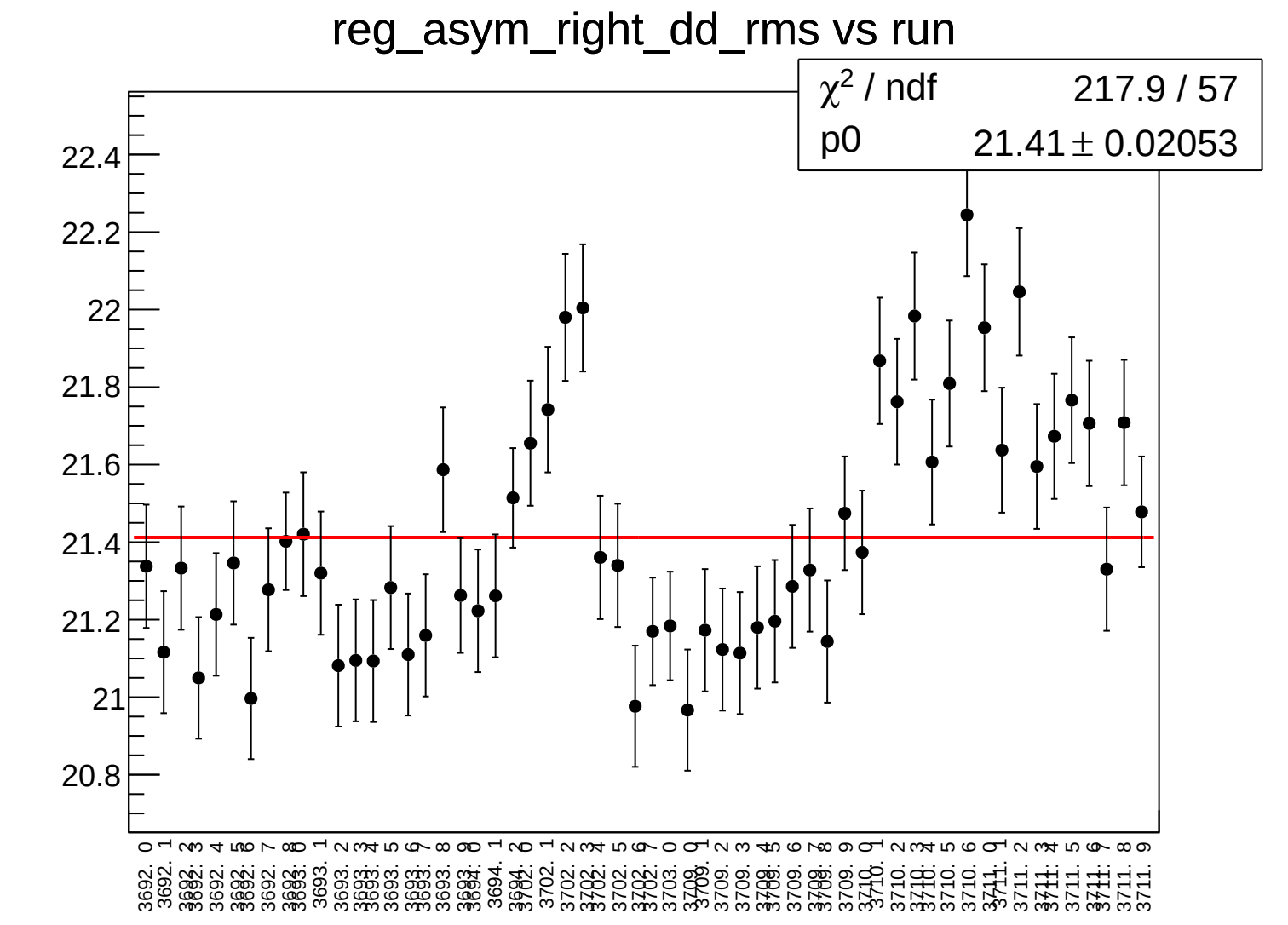

asym_right_avg_mean vs run
χ² / ndf 47.07 / 57
p0 683.5 ± 895.5
30000
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −138.7
Std Dev 155.9
3
2
1
0
−1
−2

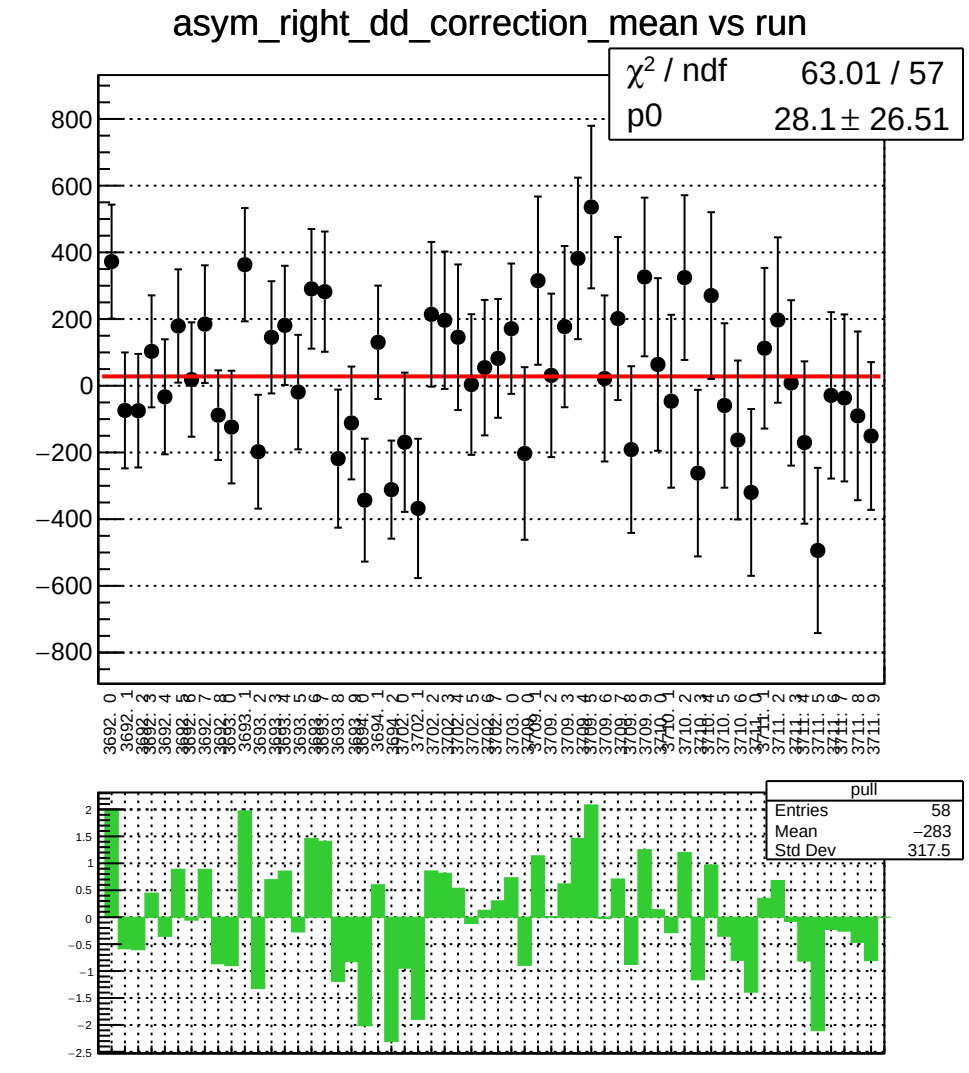

pull1D
Entries 58
Mean −0.006599
Std Dev 0.9009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

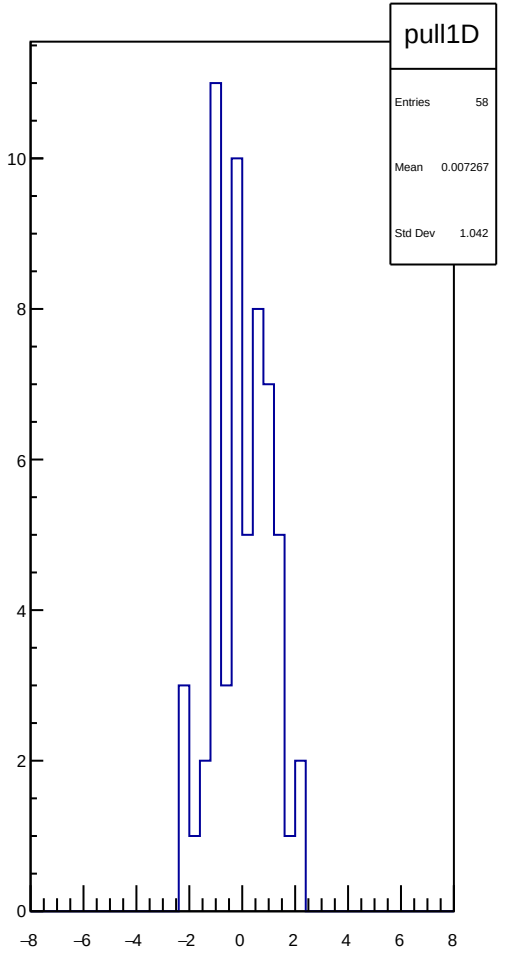

asym_right_avg_rms vs run
χ^2 / ndf 4507 / 57
p0 659 ± 0.6332
740
720
700
680
660
640
620
600
580

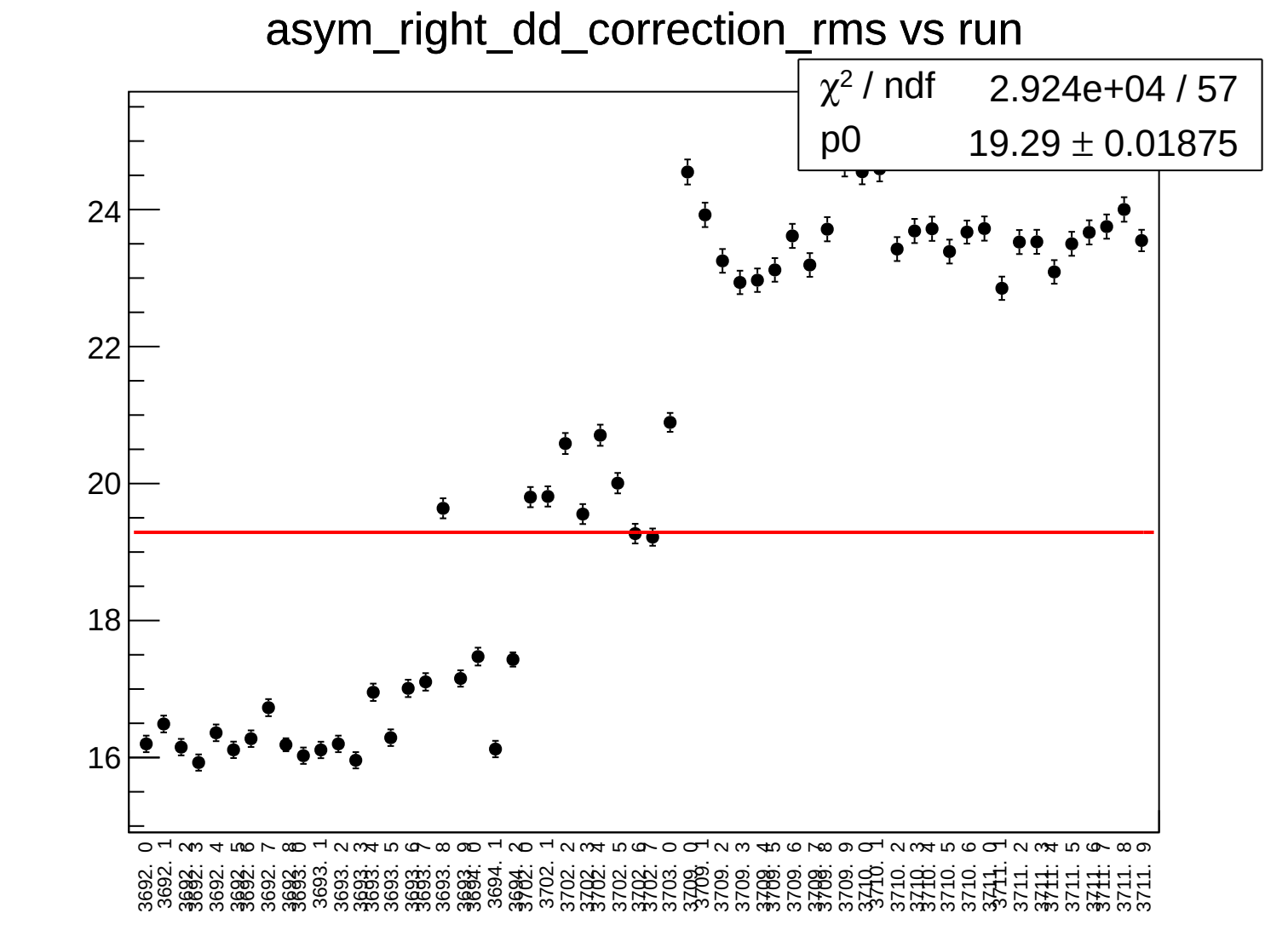

reg_asym_right_dd_mean vs run
χ² / ndf 48.44 / 57
p0 0.4043 ± 29.04
pull
Entries 58
Mean 4055
Std Dev 4029

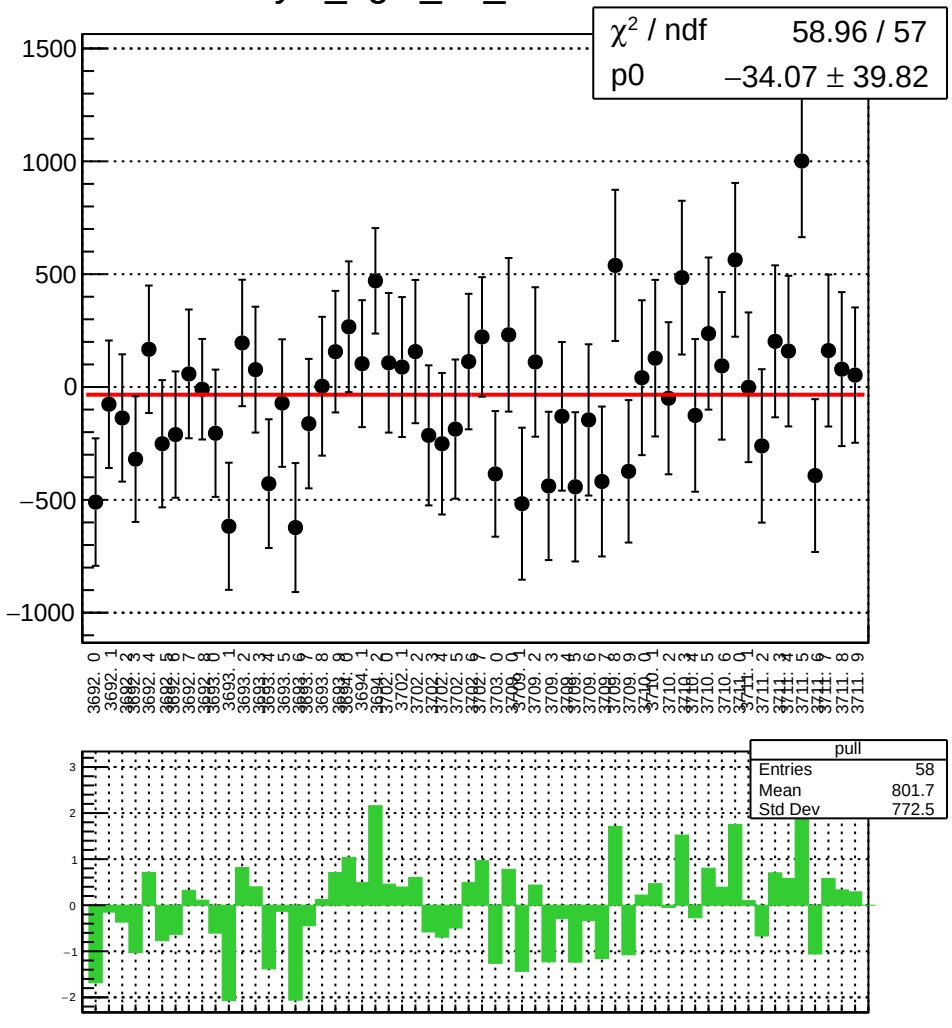

pull1D
Entries 58
Mean 0.001161
Std Dev 0.9138

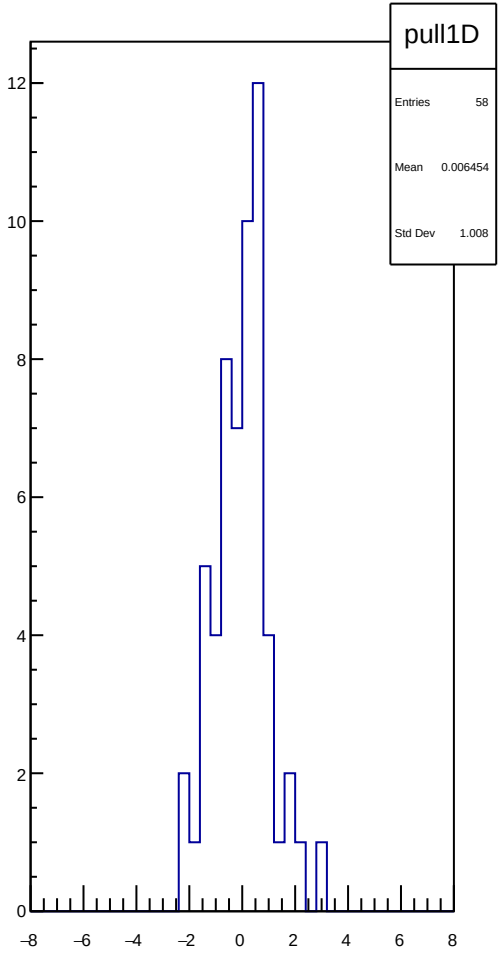

reg_asym_right_dd_rms vs run
χ^2 / ndf 217.9 / 57
p0 21.41 ± 0.02053
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8

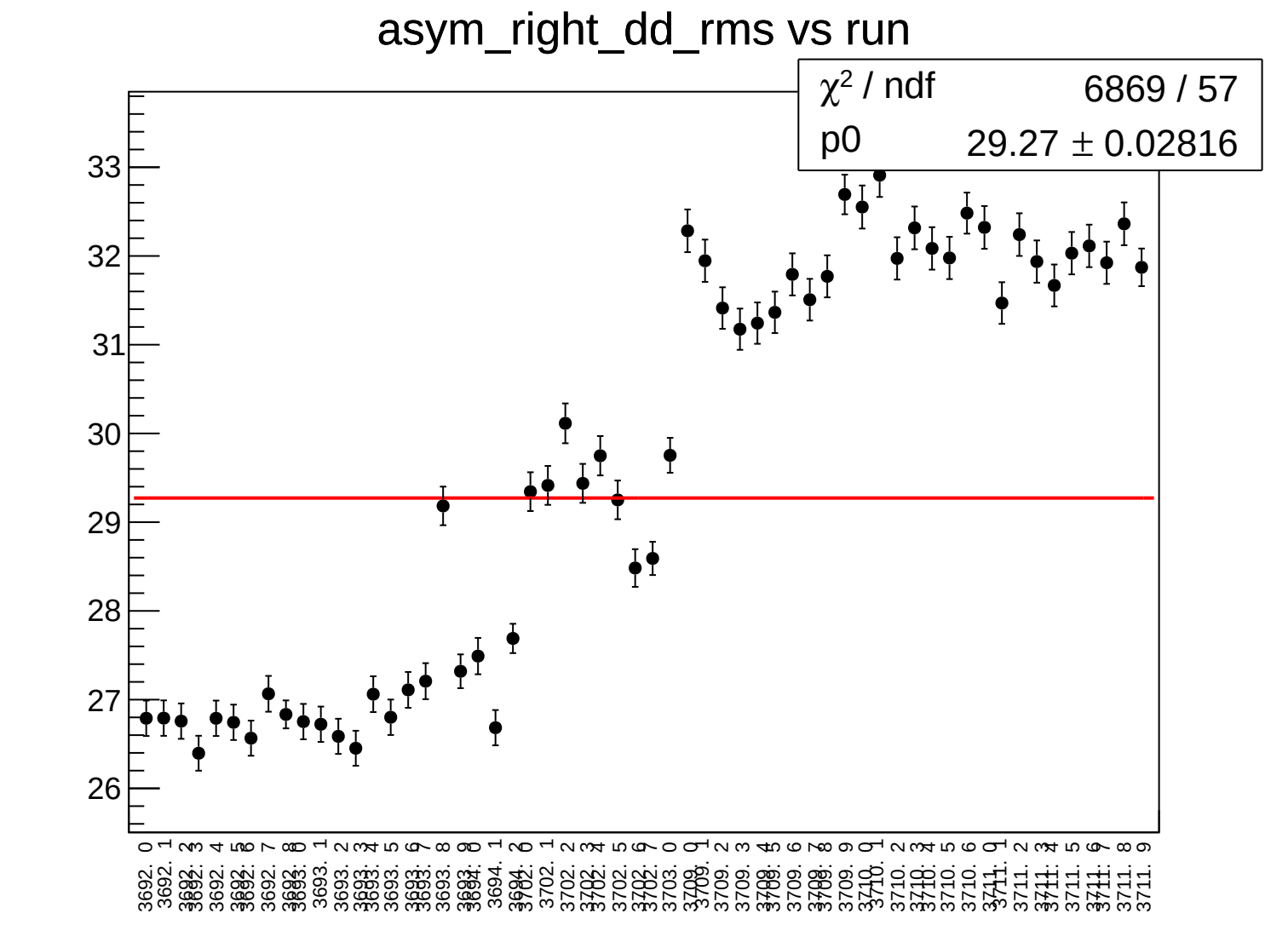

asym_right_dd_correction_mean vs run
χ² / ndf 63.01 / 57
p0 28.1 ± 26.51
pull
Entries 58
Mean −283
Std Dev 317.5

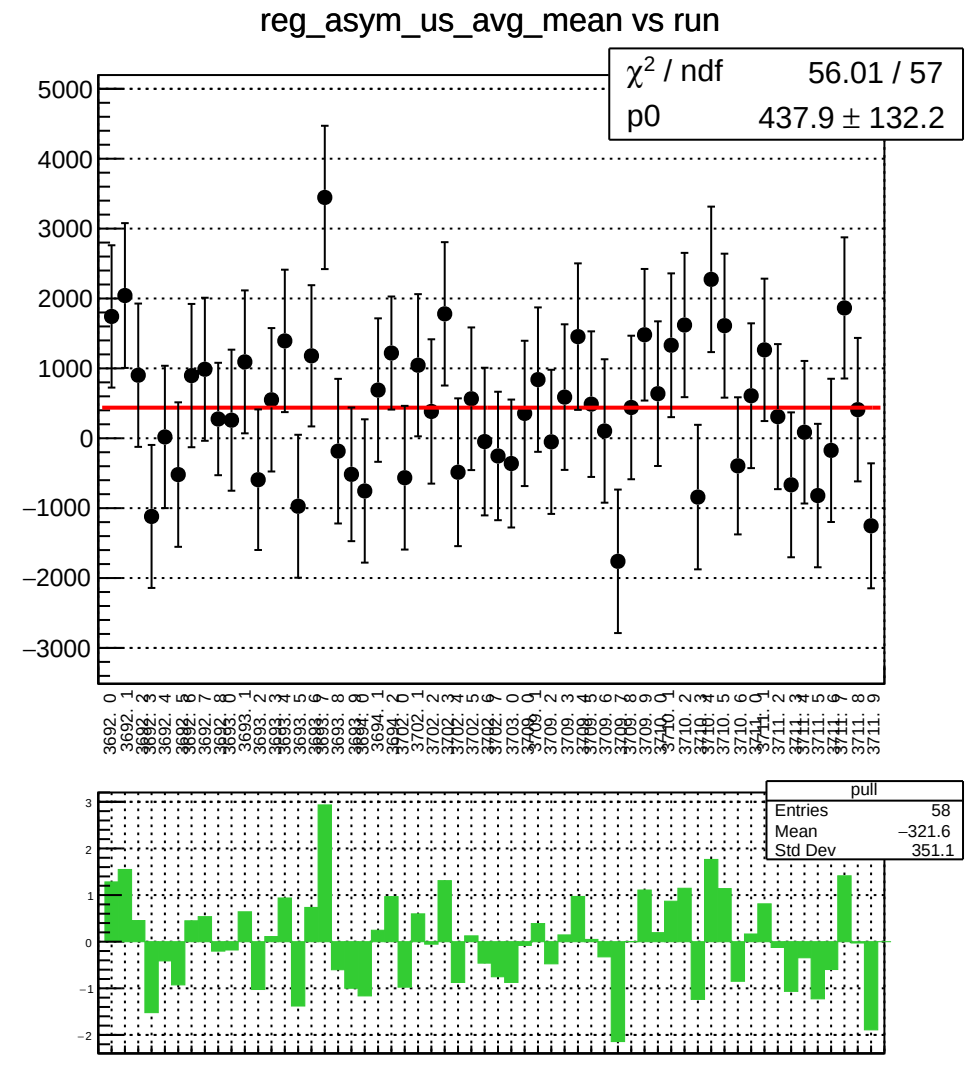

pull1D
Entries 58
Mean 0.007267
Std Dev 1.042

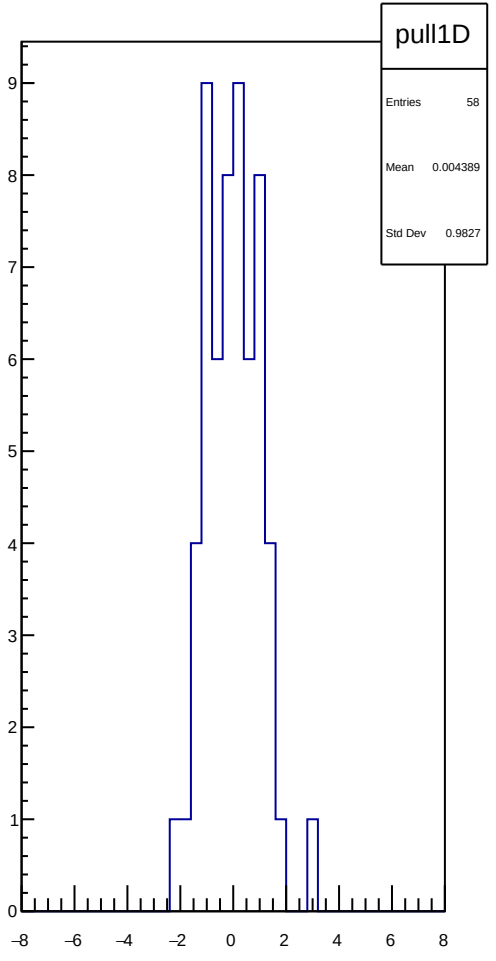

asym_right_dd_correction_rms vs run
χ² / ndf 2.924e+04 / 57
p0 19.29 ± 0.01875
24
22
20
18
16

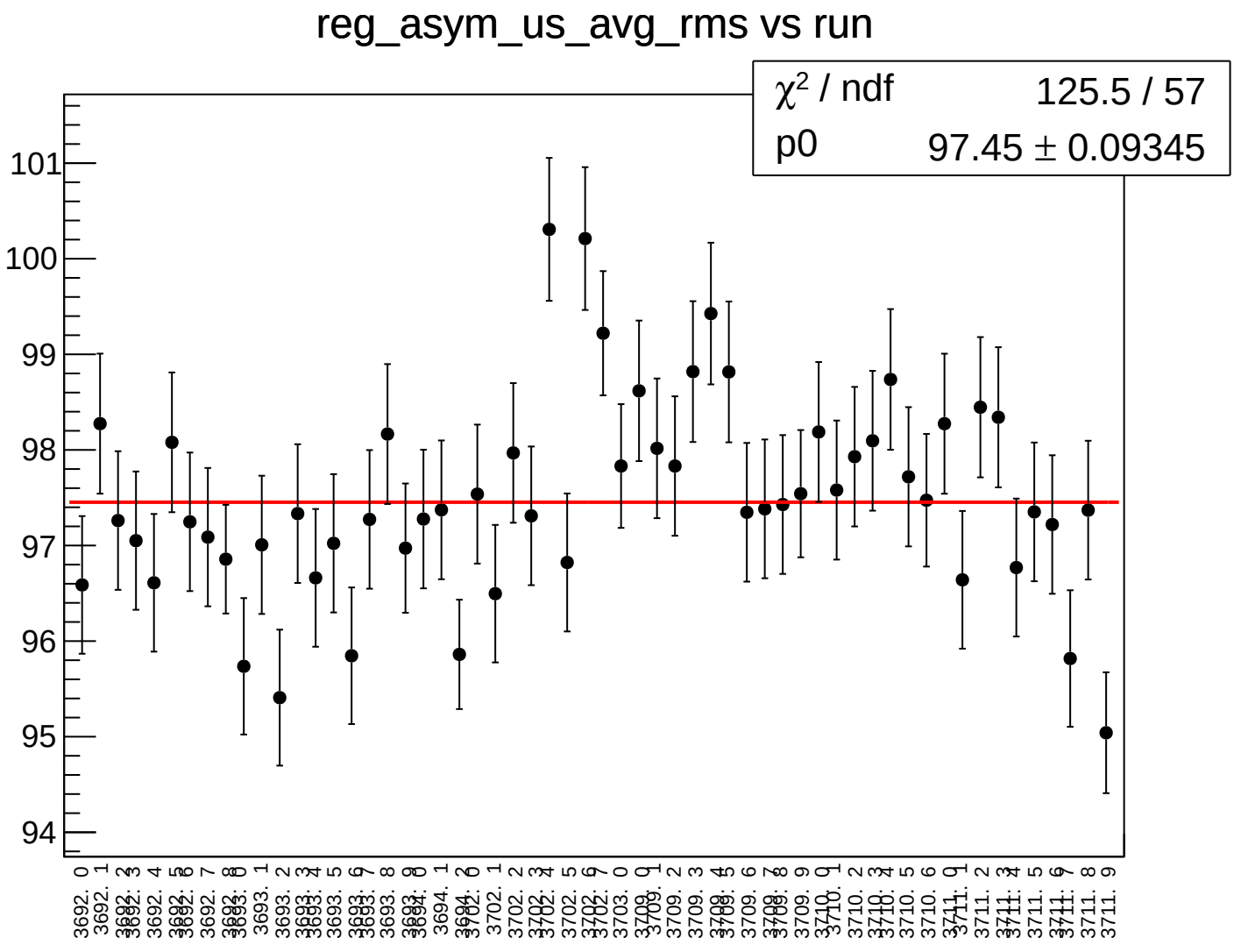

asym_right_dd_mean vs run
χ² / ndf 58.96 / 57
p0 −34.07 ± 39.82
pull
Entries 58
Mean 801.7
Std Dev 772.5

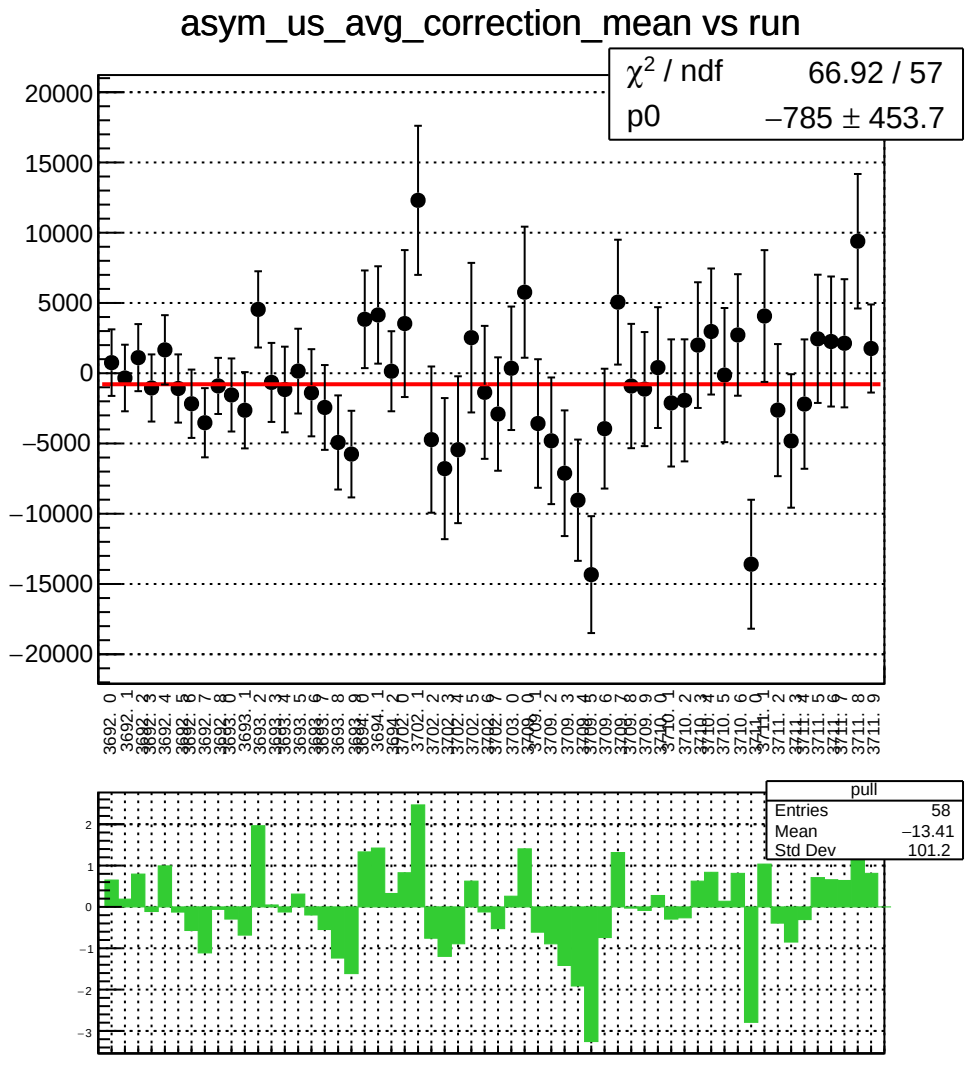

pull1D
Entries 58
Mean 0.006454
Std Dev 1.008

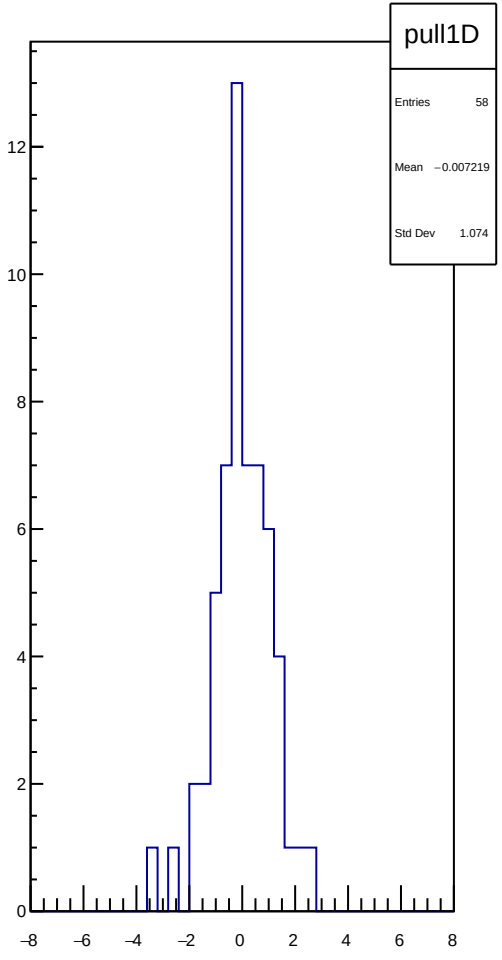

asym_right_dd_rms vs run
χ² / ndf 6869 / 57
p0 29.27 ± 0.02816
33
32
31
30
29
28
27
26

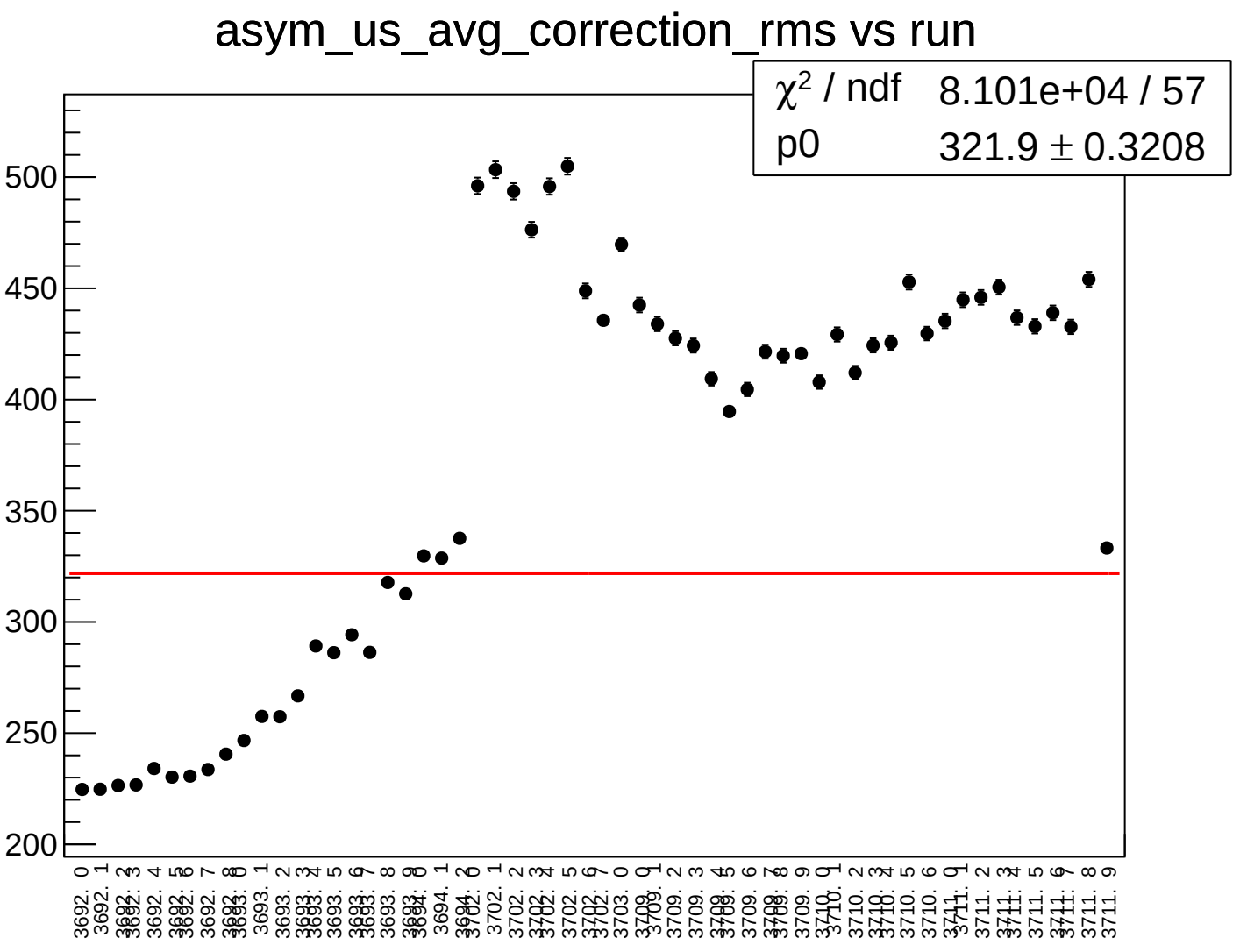

reg_asym_us_avg_mean vs run
χ² / ndf 56.01 / 57
p0 437.9 ± 132.2
pull
Entries 58
Mean −321.6
Std Dev 351.1

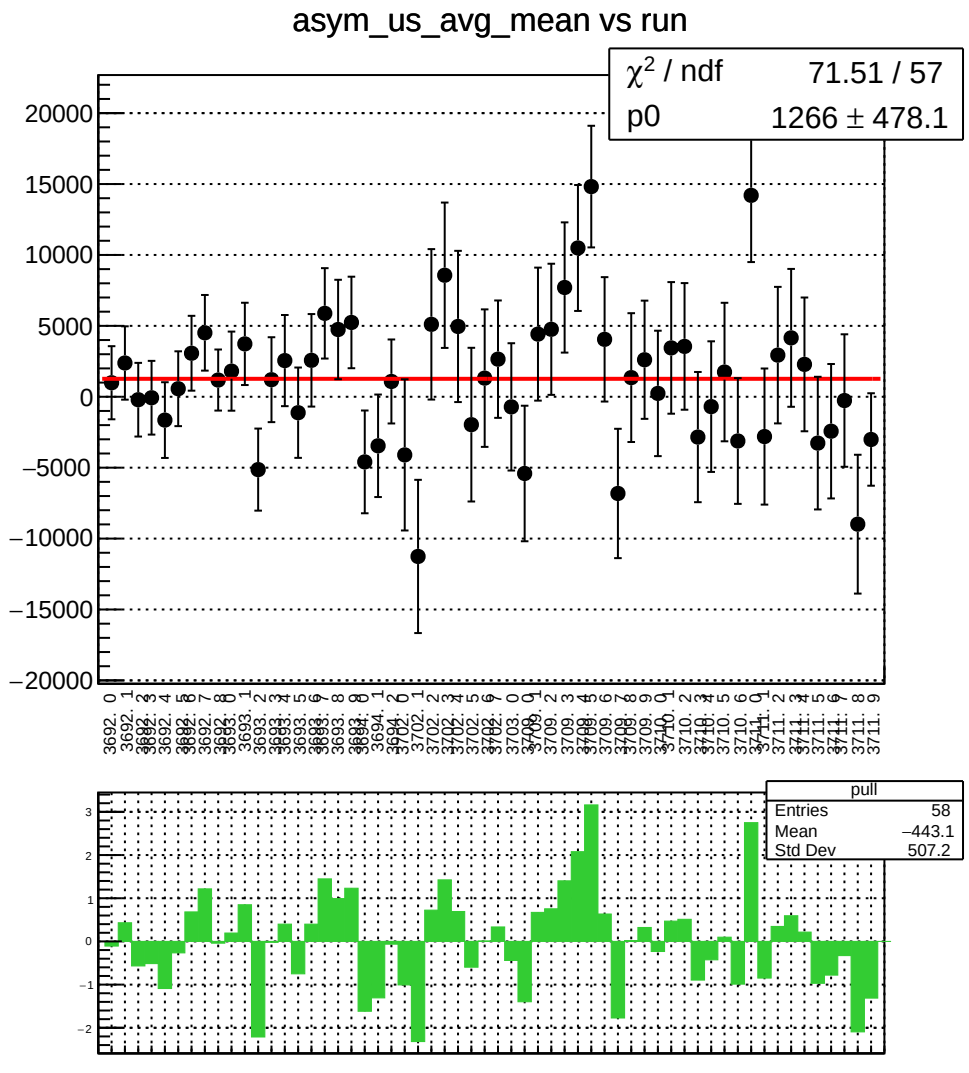

pull1D
Entries 58
Mean 0.004389
Std Dev 0.9827

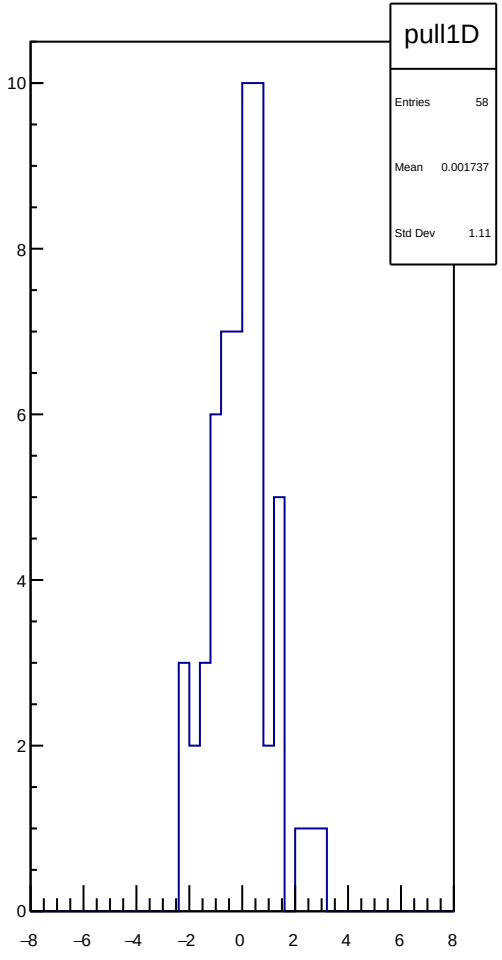

reg_asym_us_avg_rms vs run
χ^2 / ndf 125.5 / 57
p0 97.45 ± 0.09345
101
100
99
98
97
96
95
94

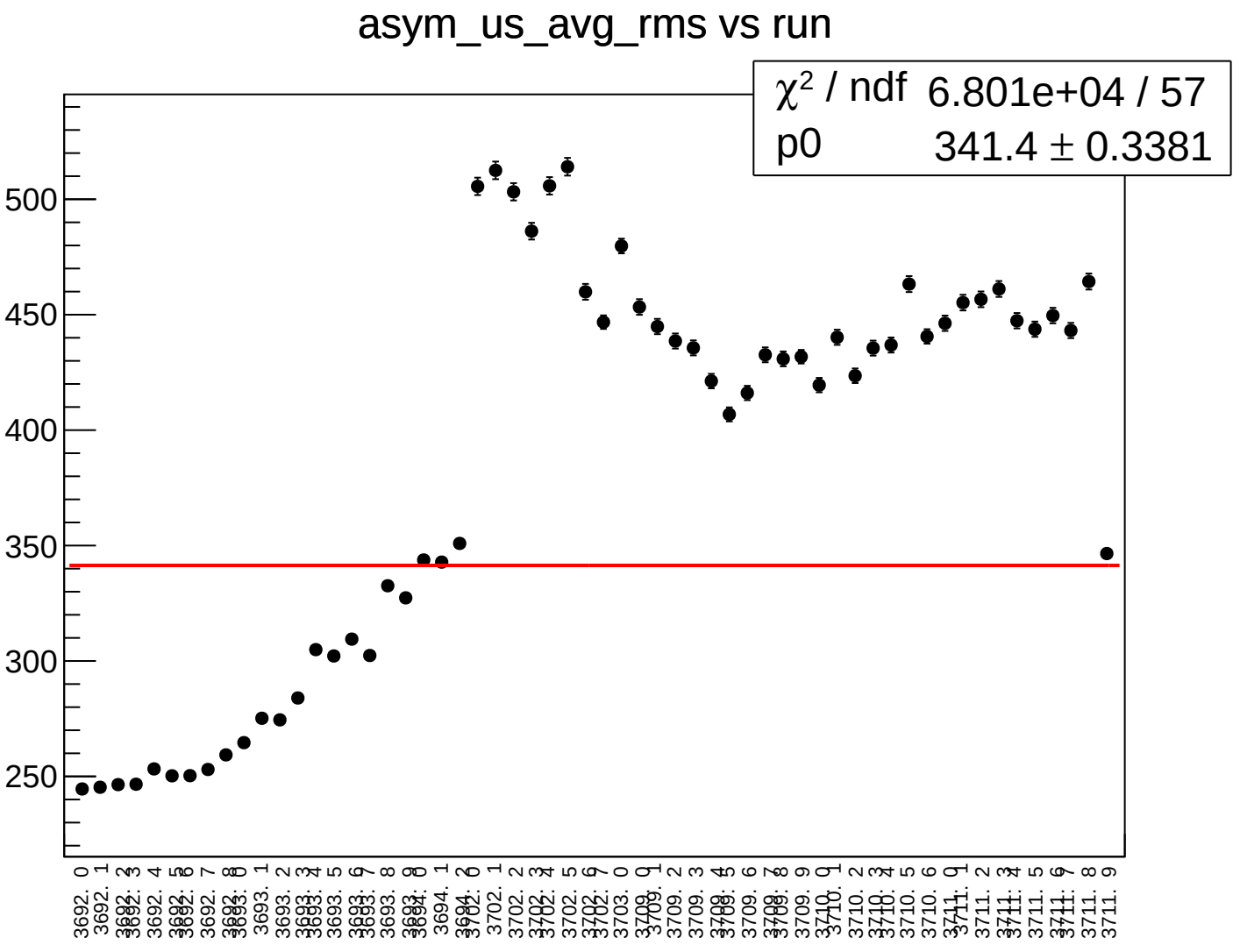

asym_us_avg_correction_mean vs run
χ² / ndf 66.92 / 57
p0 −785 ± 453.7
pull
Entries 58
Mean −13.41
Std Dev 101.2

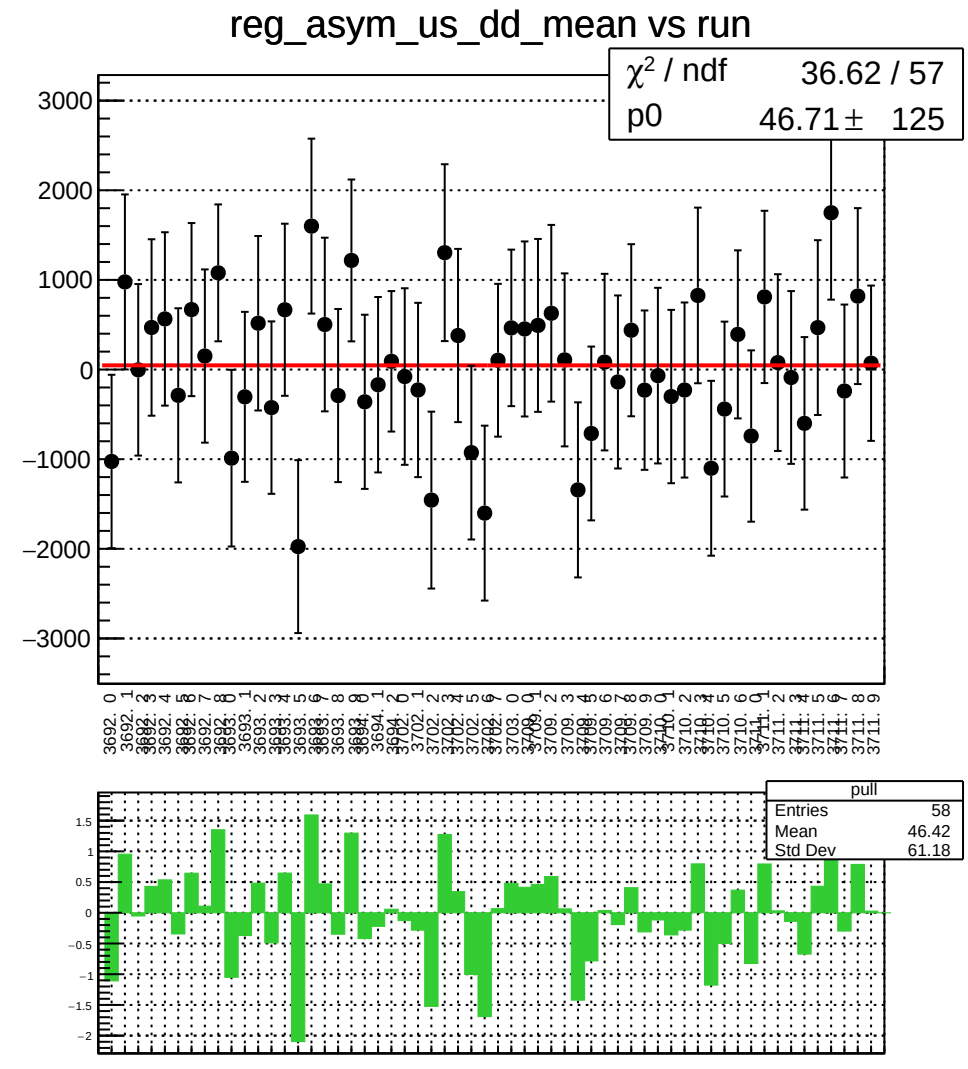

pull1D
Entries 58
Mean −0.007219
Std Dev 1.074

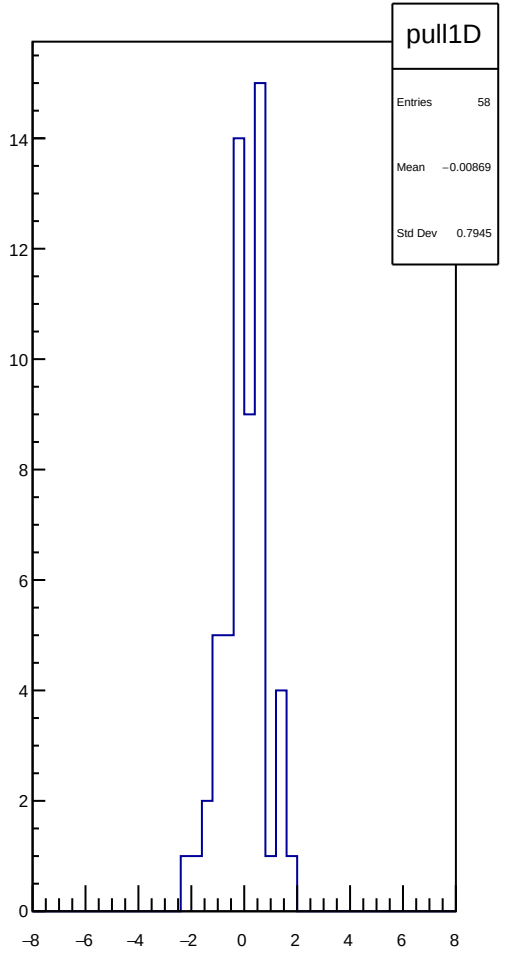

asym_us_avg_correction_rms vs run
χ^2 / ndf 8.101e+04 / 57
p0 321.9 ± 0.3208
500
450
400
350
300
250
200

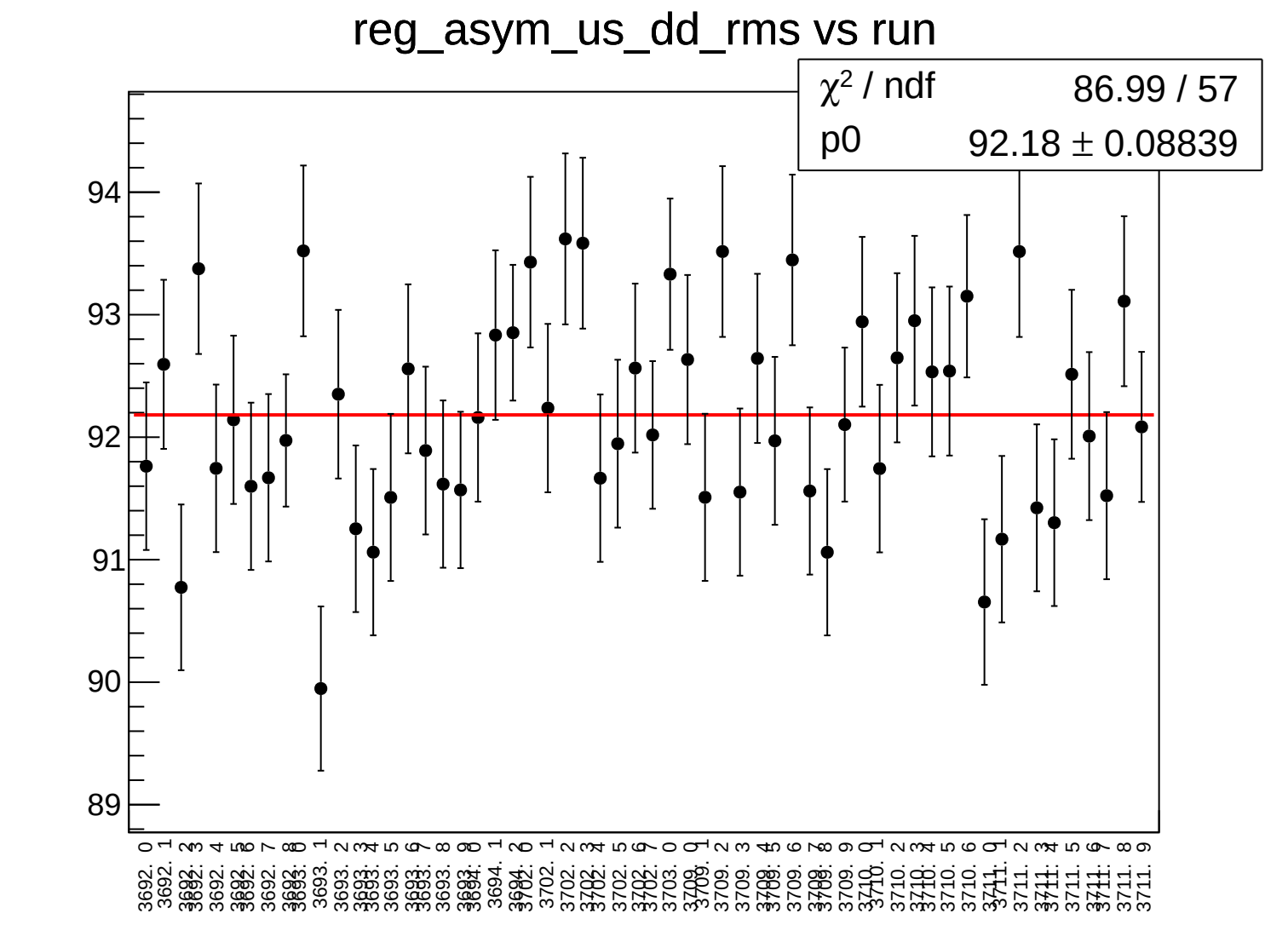

asym_us_avg_mean vs run
χ² / ndf 71.51 / 57
p0 1266 ± 478.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 58
Mean −443.1
Std Dev 507.2
3
2
1
0
−1
−2

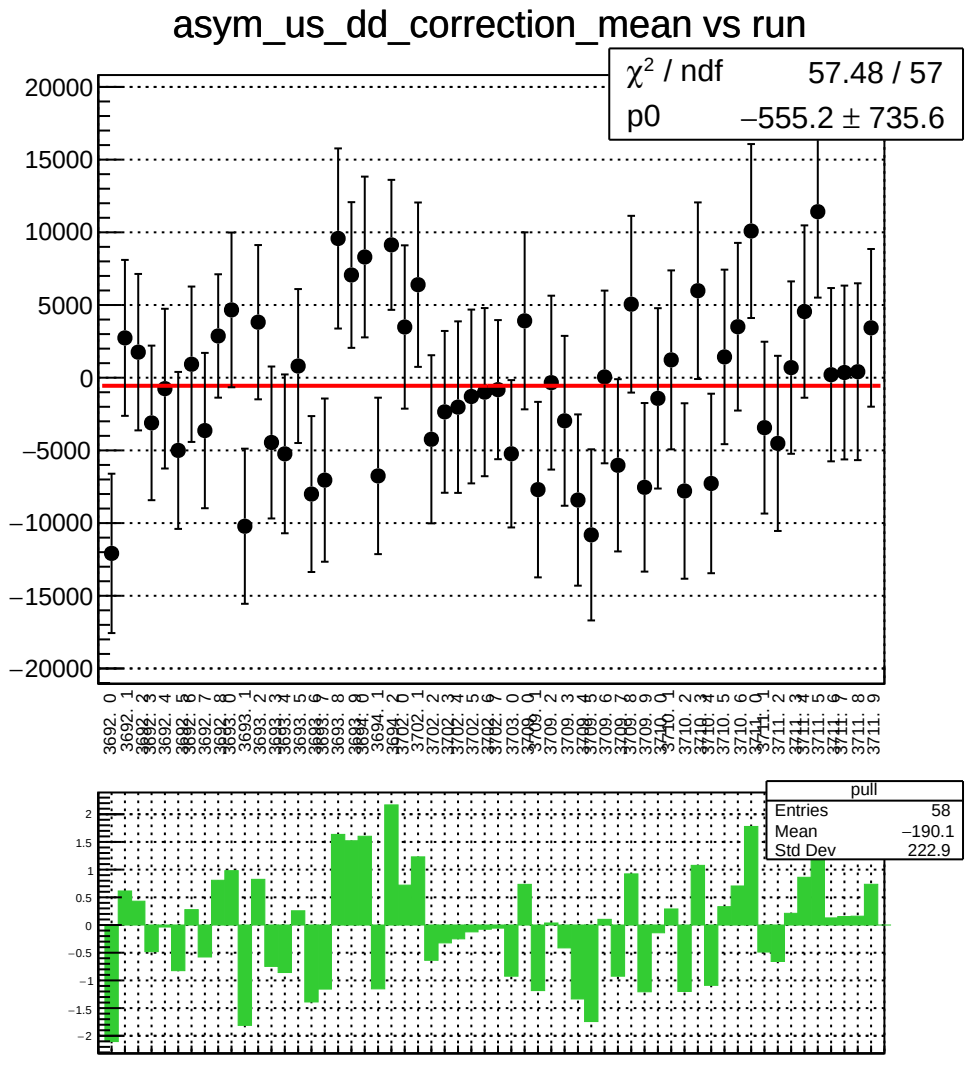

pull1D
Entries 58
Mean 0.001737
Std Dev 1.11
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

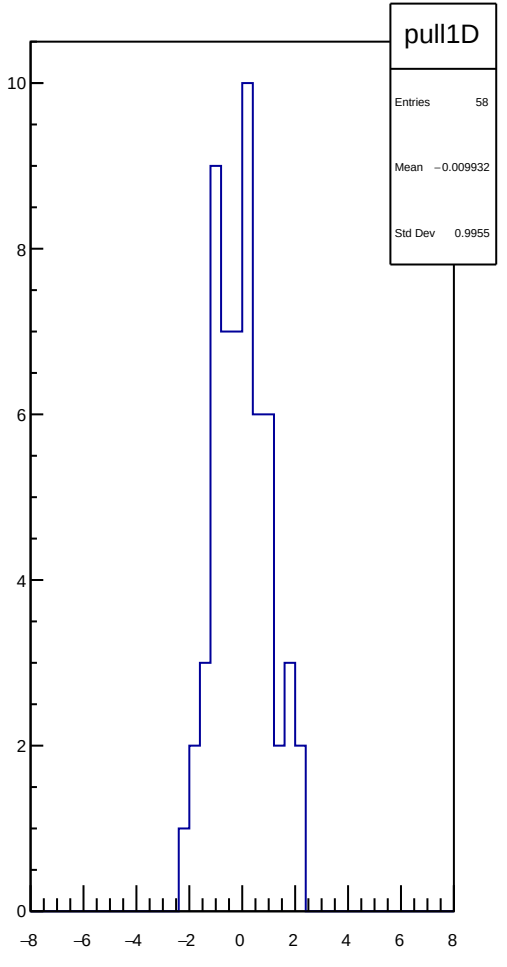

asym_us_avg_rms vs run
χ² / ndf 6.801e+04 / 57
p0 341.4 ± 0.3381
500
450
400
350
300
250

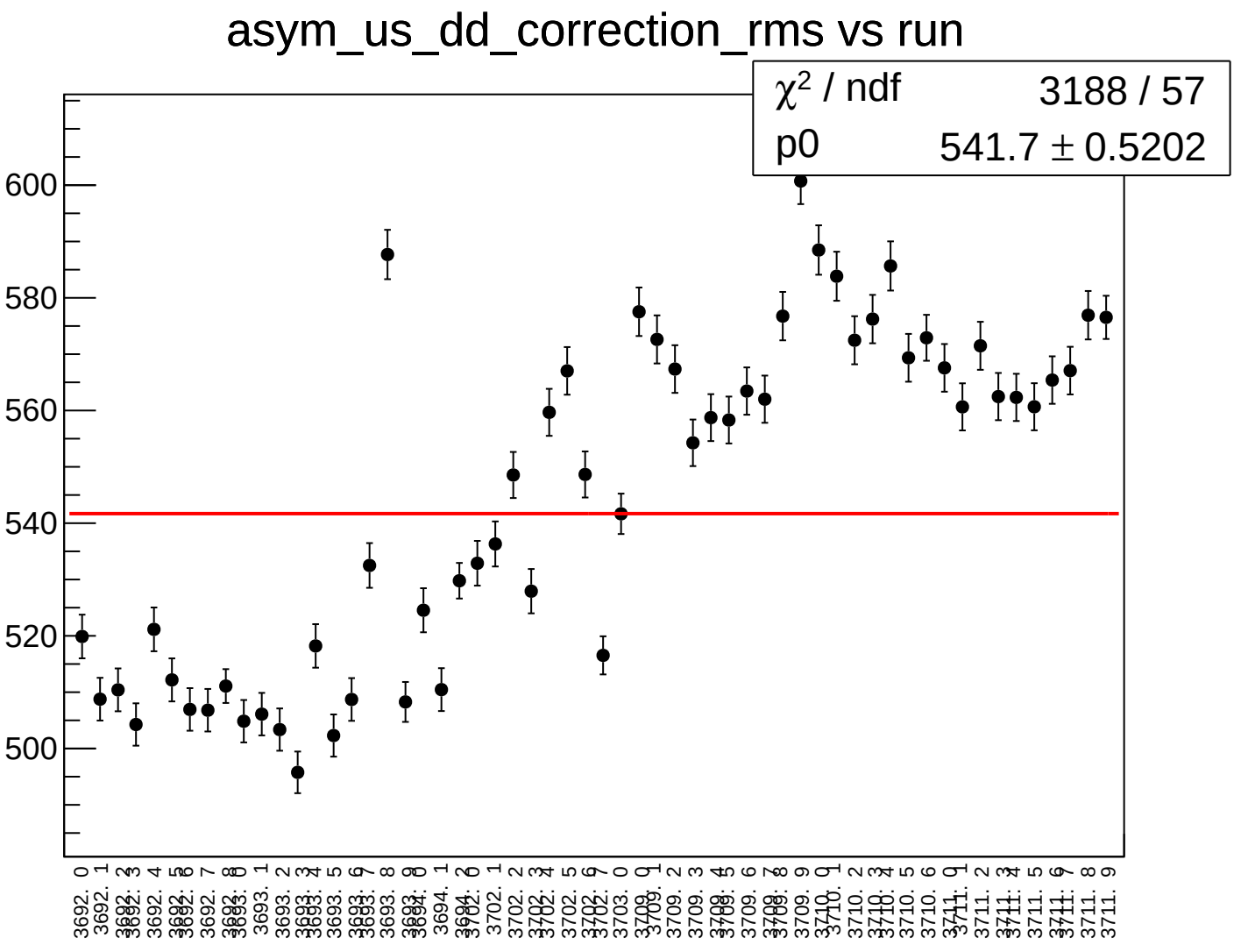

reg_asym_us_dd_mean vs run
χ² / ndf 36.62 / 57
p0 46.71 ± 125
pull
Entries 58
Mean 46.42
Std Dev 61.18

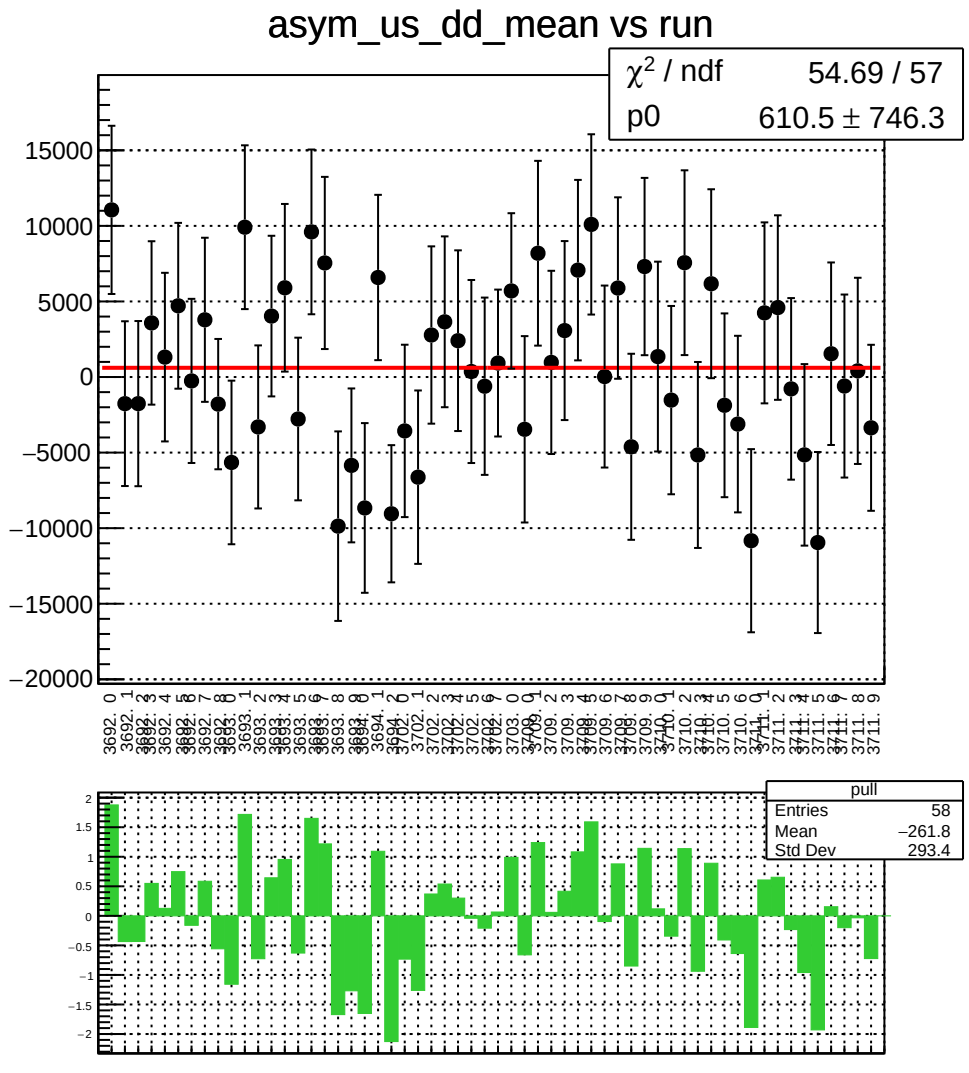

pull1D
Entries 58
Mean −0.00869
Std Dev 0.7945

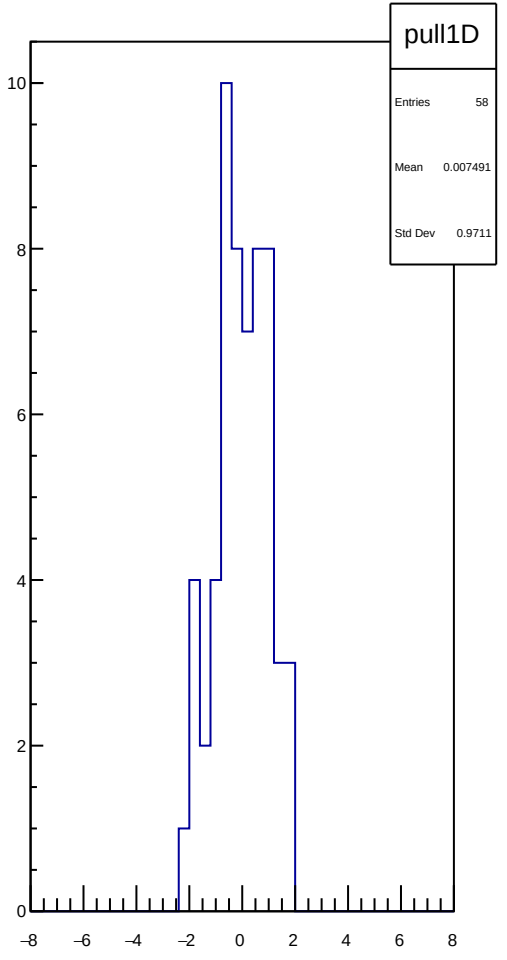

reg_asym_us_dd_rms vs run
χ^2 / ndf 86.99 / 57
p0 92.18 ± 0.08839
94
93
92
91
90
89

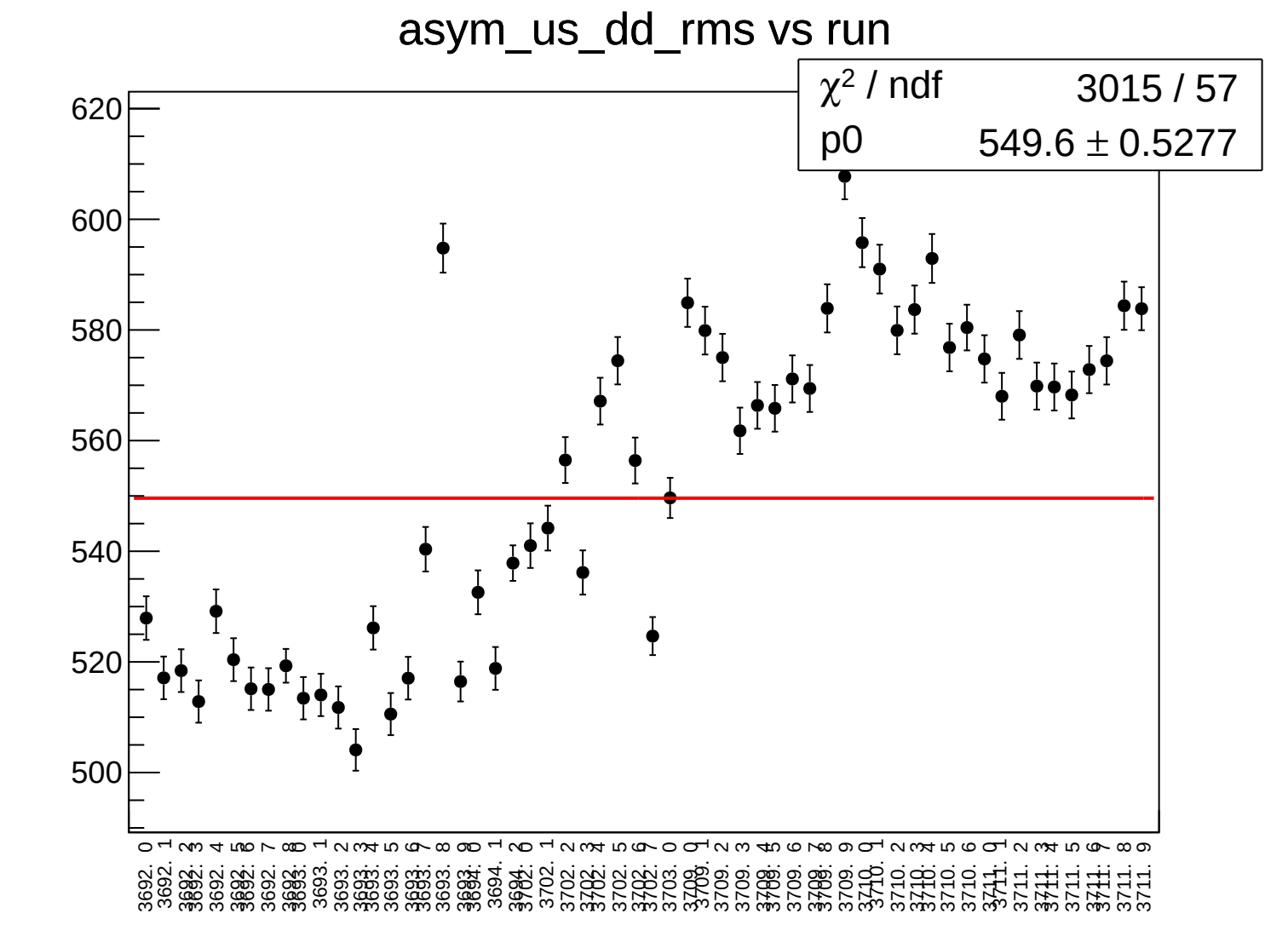

asym_us_dd_correction_mean vs run
χ² / ndf 57.48 / 57
p0 −555.2 ± 735.6
pull
Entries 58
Mean −190.1
Std Dev 222.9

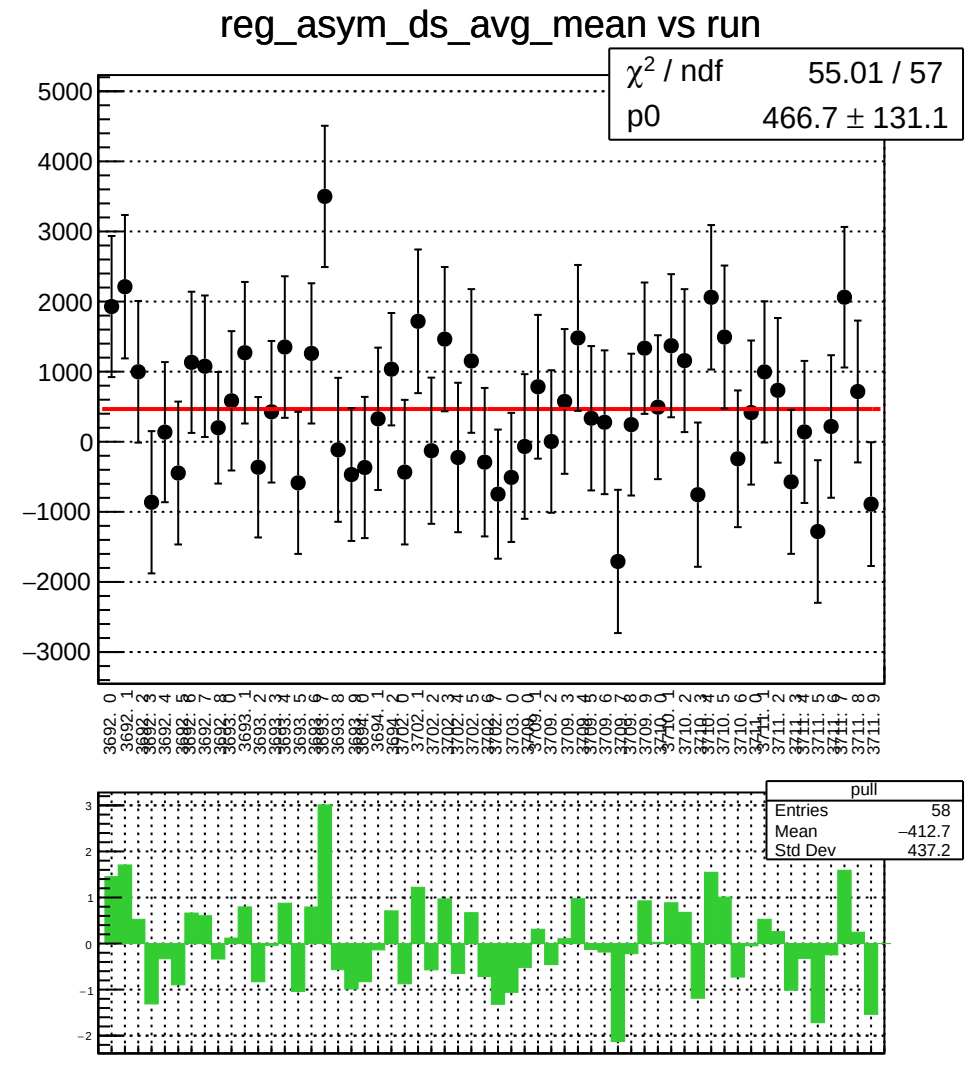

pull1D
Entries 58
Mean −0.009932
Std Dev 0.9955

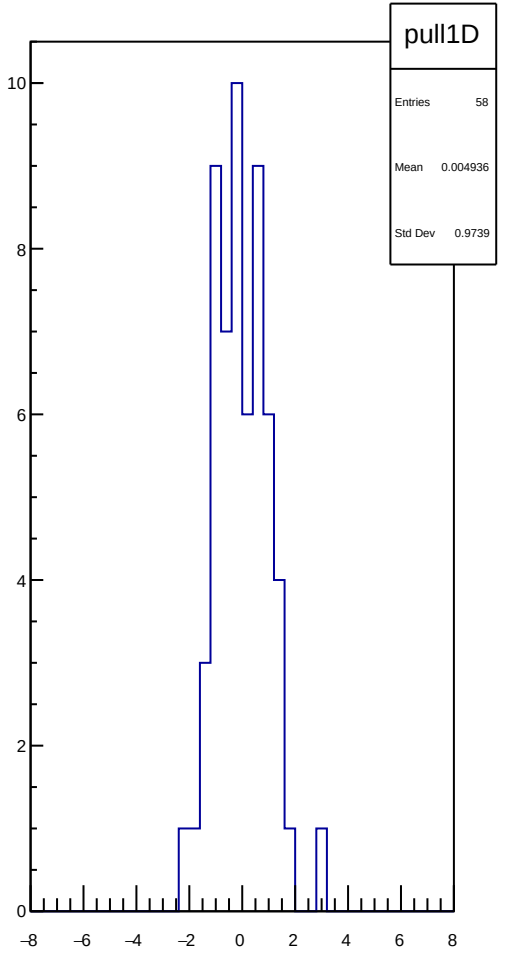

asym_us_dd_correction_rms vs run
χ² / ndf 3188 / 57
p0 541.7 ± 0.5202
600
580
560
540
520
500

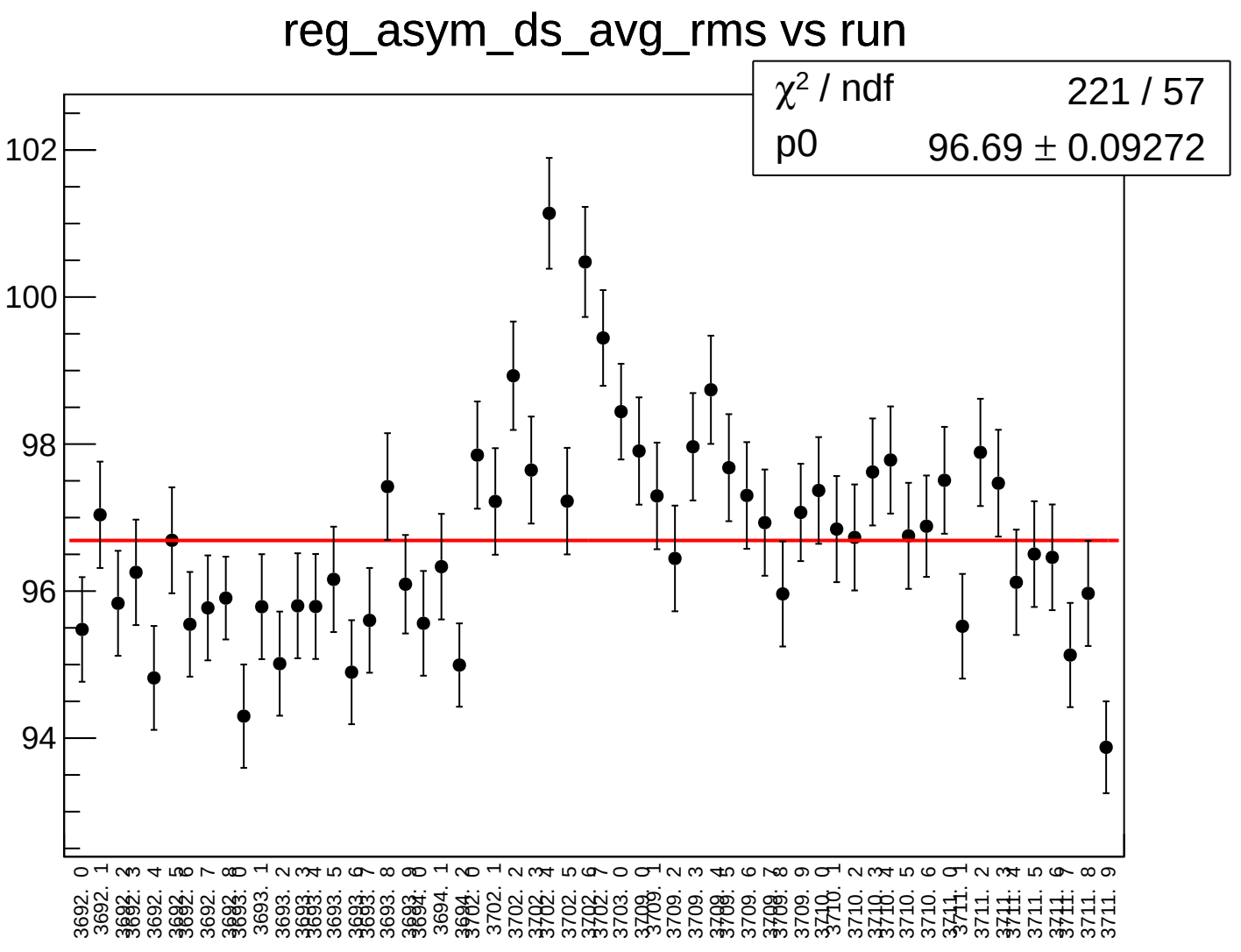

asym_us_dd_mean vs run
χ² / ndf 54.69 / 57
p0 610.5 ± 746.3
pull
Entries 58
Mean −261.8
Std Dev 293.4

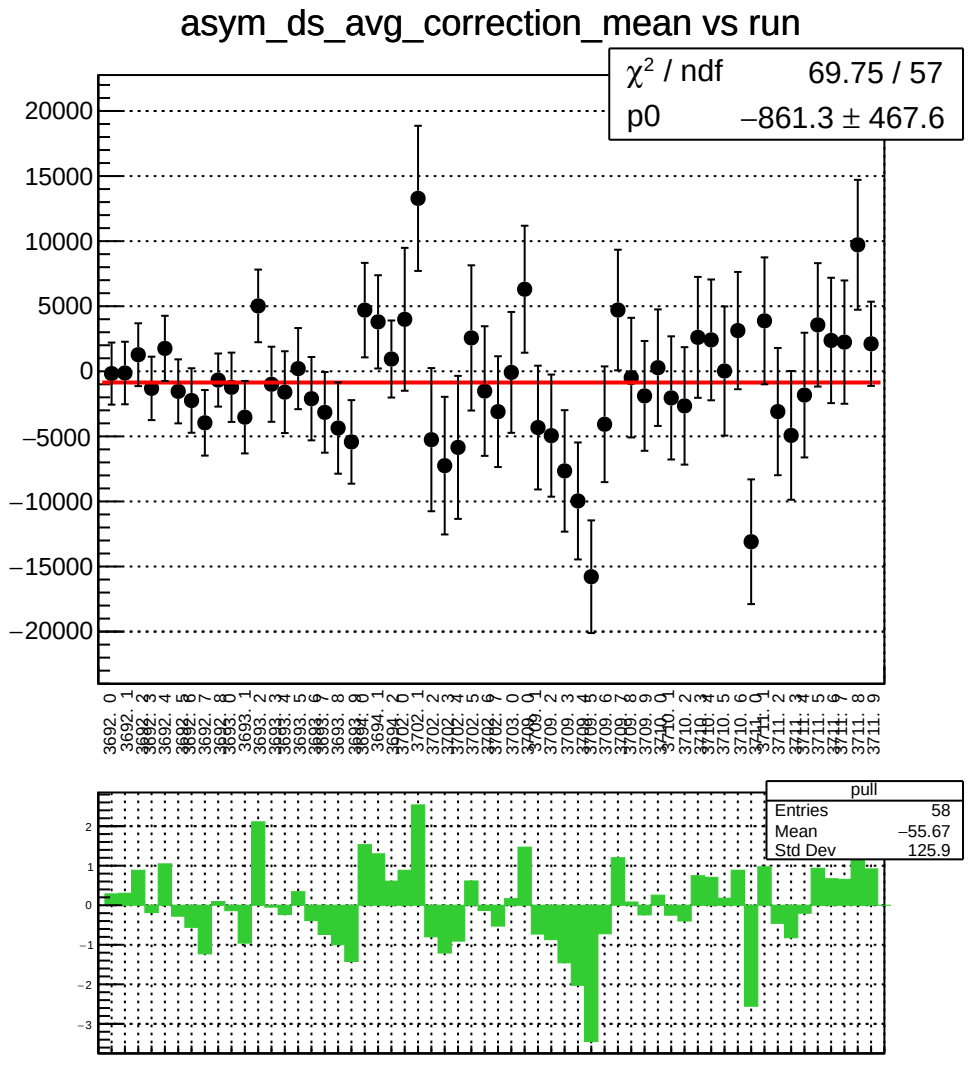

pull1D
Entries 58
Mean 0.007491
Std Dev 0.9711

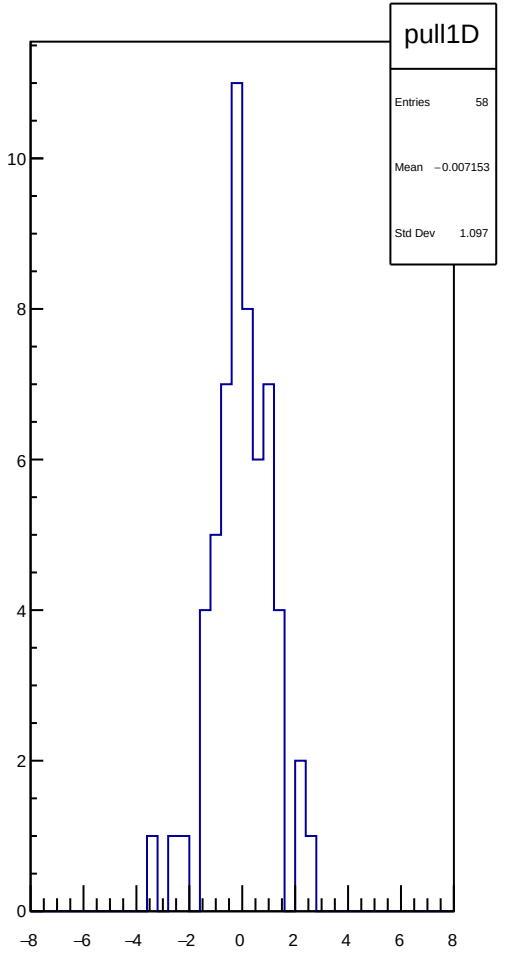

asym_us_dd_rms vs run
χ² / ndf 3015 / 57
p0 549.6 ± 0.5277
620
600
580
560
540
520
500

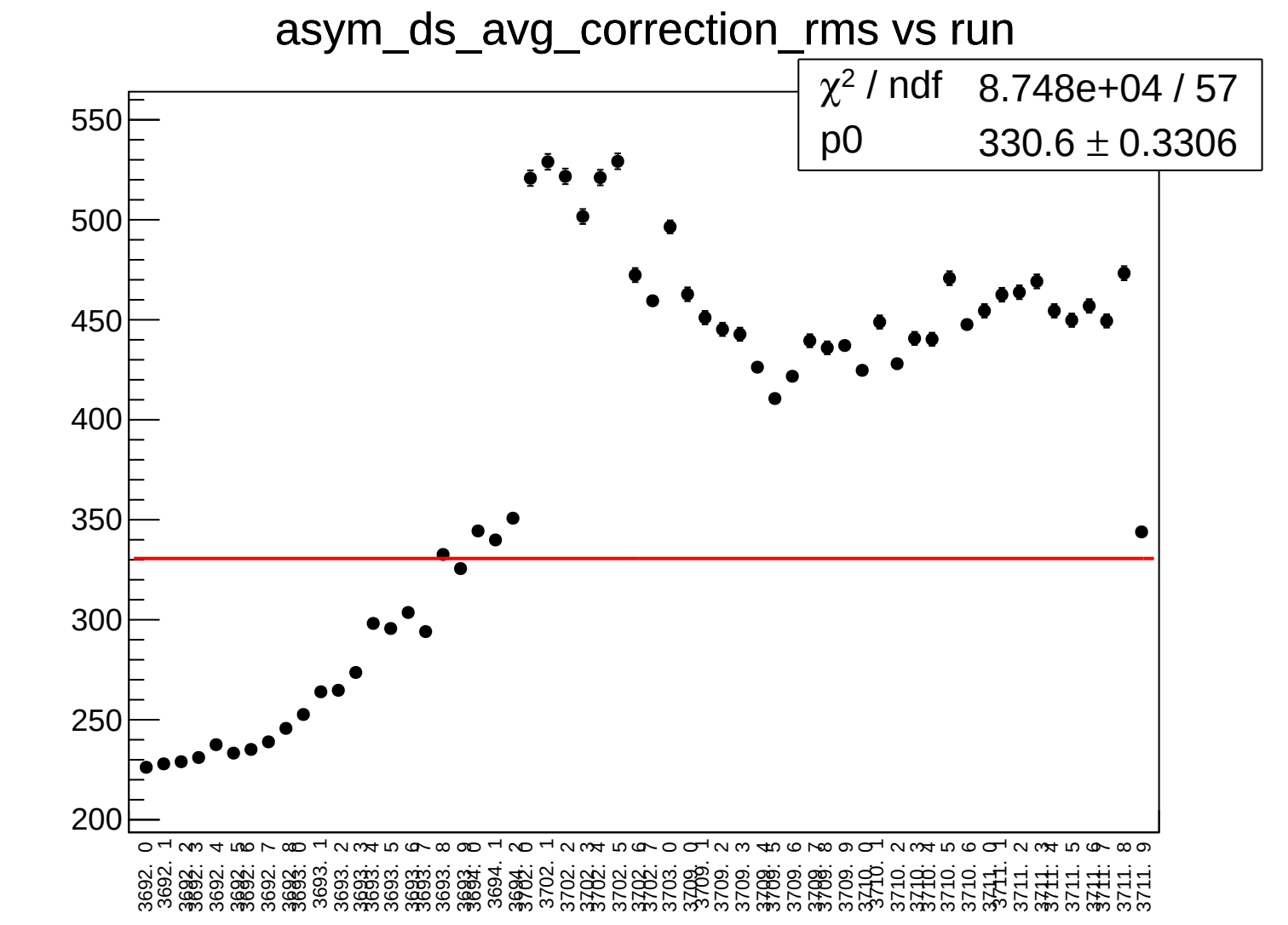

reg_asym_ds_avg_mean vs run
χ^2 / ndf 55.01 / 57
p0 466.7 ± 131.1
pull
Entries 58
Mean −412.7
Std Dev 437.2

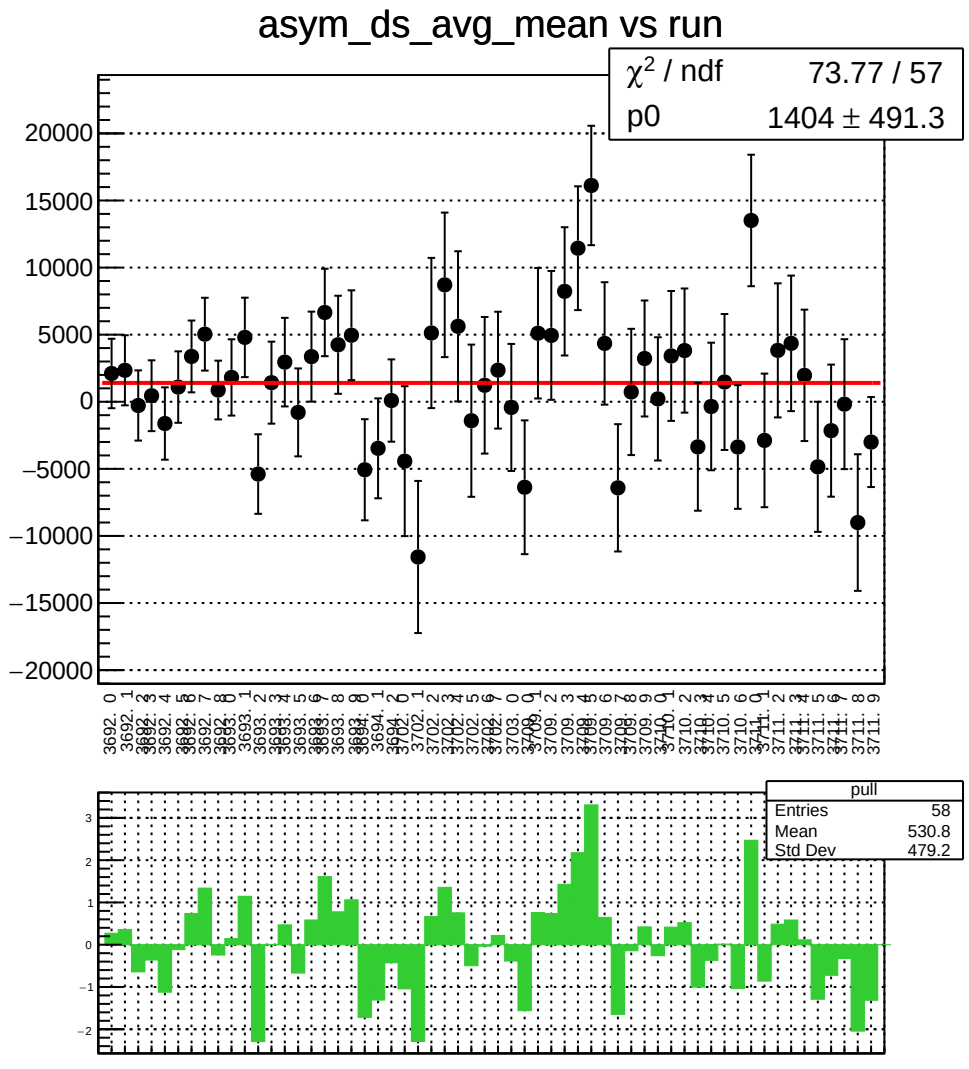

pull1D
Entries 58
Mean 0.004936
Std Dev 0.9739

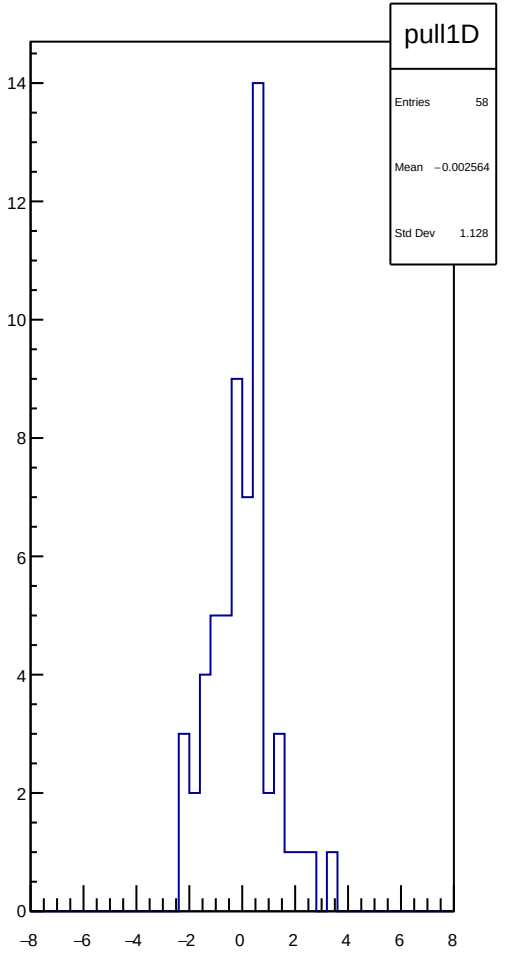

reg_asym_ds_avg_rms vs run
χ^2 / ndf 221 / 57
p0 96.69 ± 0.09272
102
100
98
96
94

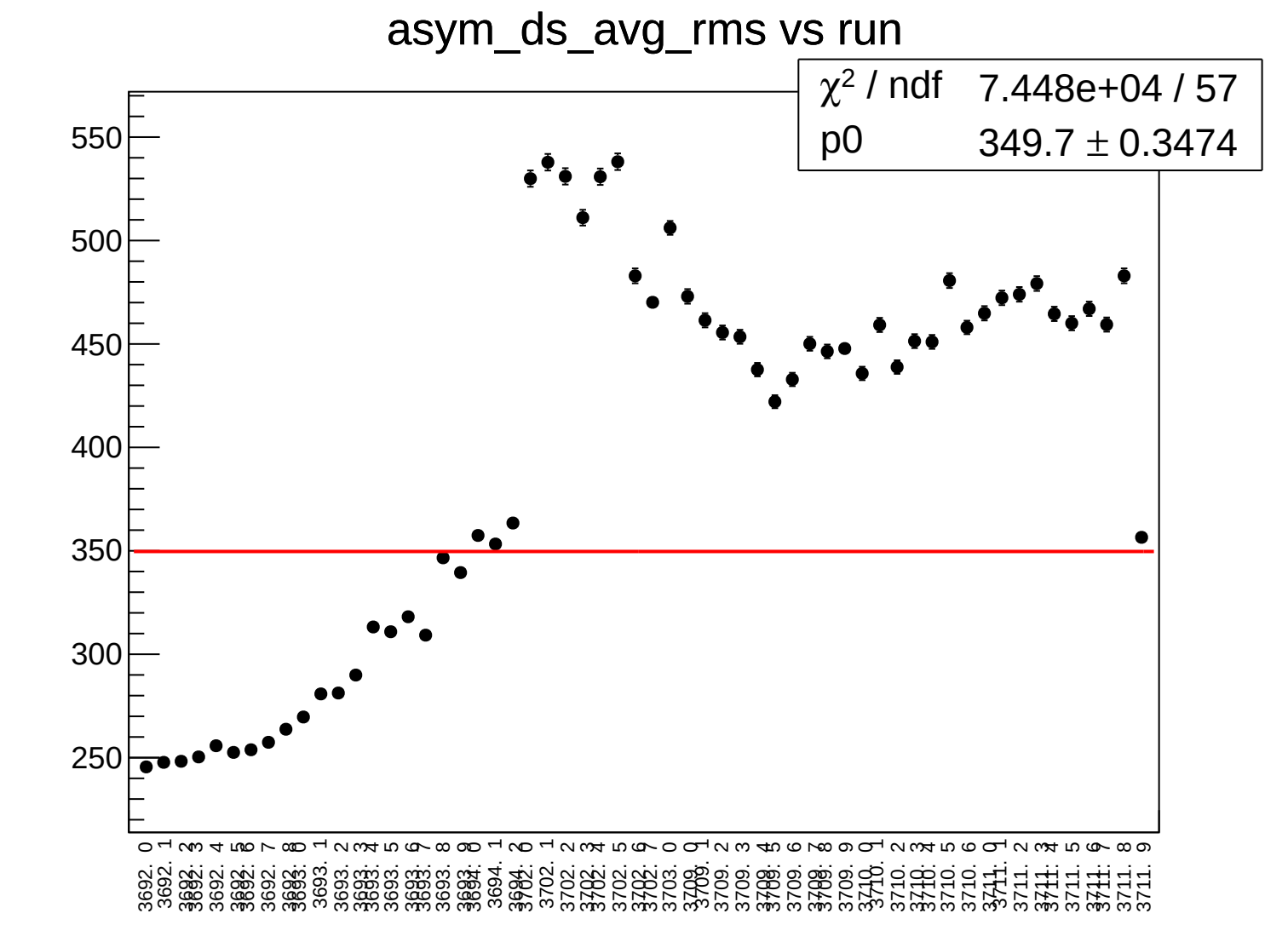

asym_ds_avg_correction_mean vs run
χ² / ndf 69.75 / 57
p0 −861.3 ± 467.6
pull
Entries 58
Mean −55.67
Std Dev 125.9

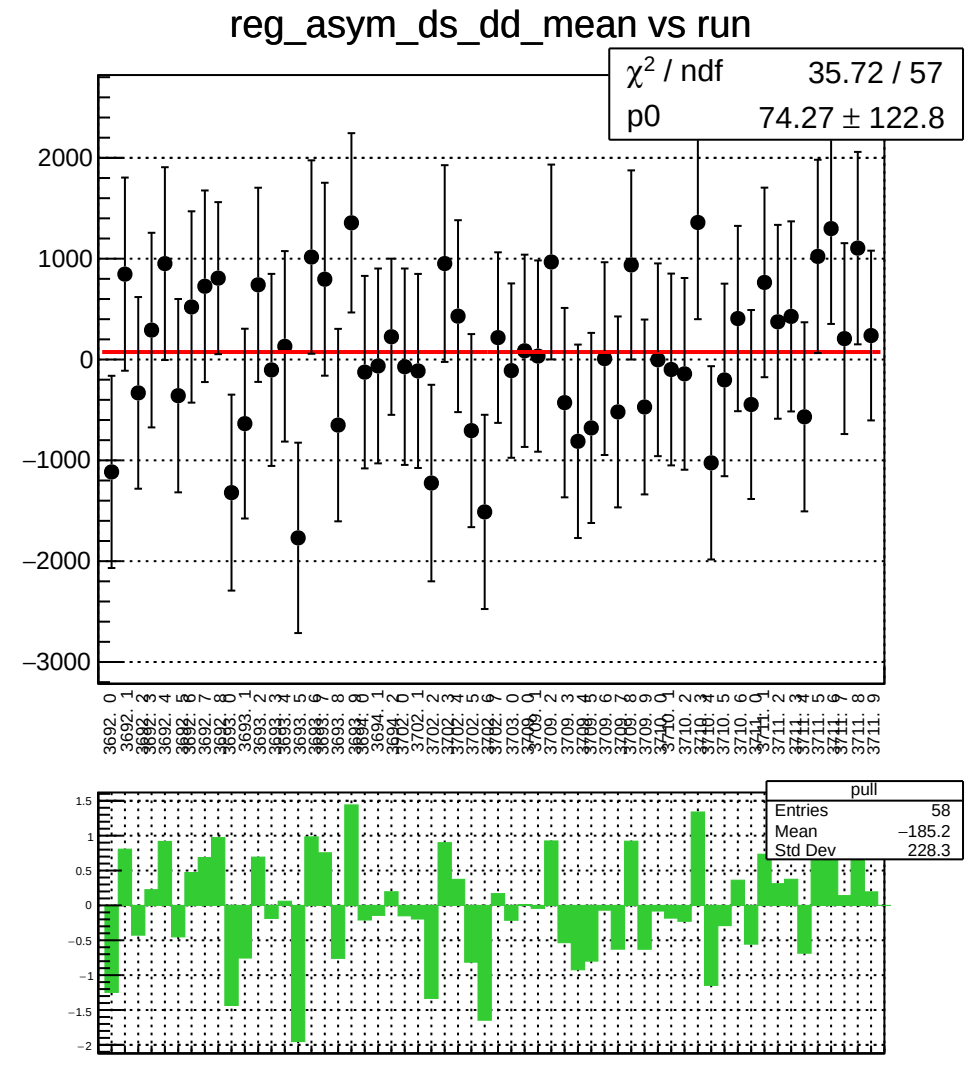

pull1D
Entries 58
Mean −0.007153
Std Dev 1.097

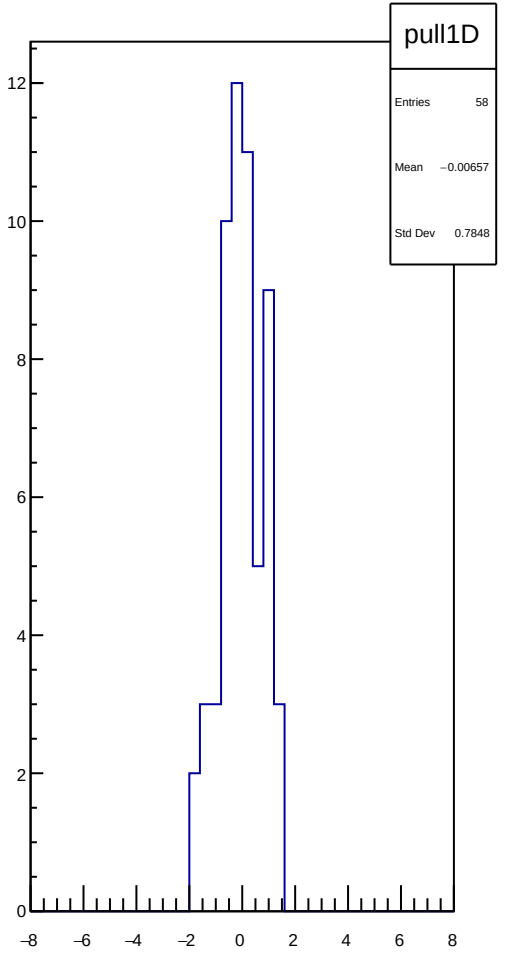

asym_ds_avg_correction_rms vs run
χ² / ndf 8.748e+04 / 57
p0 330.6 ± 0.3306
550
500
450
400
350
300
250
200
3692. 0
3692. 1
3692. 2
3692. 3
3692. 4
3692. 5
3692. 6
3692. 7
3692. 8
3693. 0
3693. 1
3693. 2
3693. 3
3693. 4
3693. 5
3693. 6
3693. 7
3693. 8
3693. 9
3694. 0
3694. 1
3694. 2
3694. 6
3702. 1
3702. 2
3702. 3
3702. 4
3702. 5
3702. 6
3702. 7
3703. 0
3709. 0
3709. 1
3709. 2
3709. 3
3709. 4
3709. 5
3709. 6
3709. 7
3709. 8
3709. 9
3710. 0
3710. 1
3710. 2
3710. 3
3710. 4
3710. 5
3710. 6
3711. 0
3711. 1
3711. 2
3711. 3
3711. 4
3711. 5
3711. 6
3711. 7
3711. 8
3711. 9

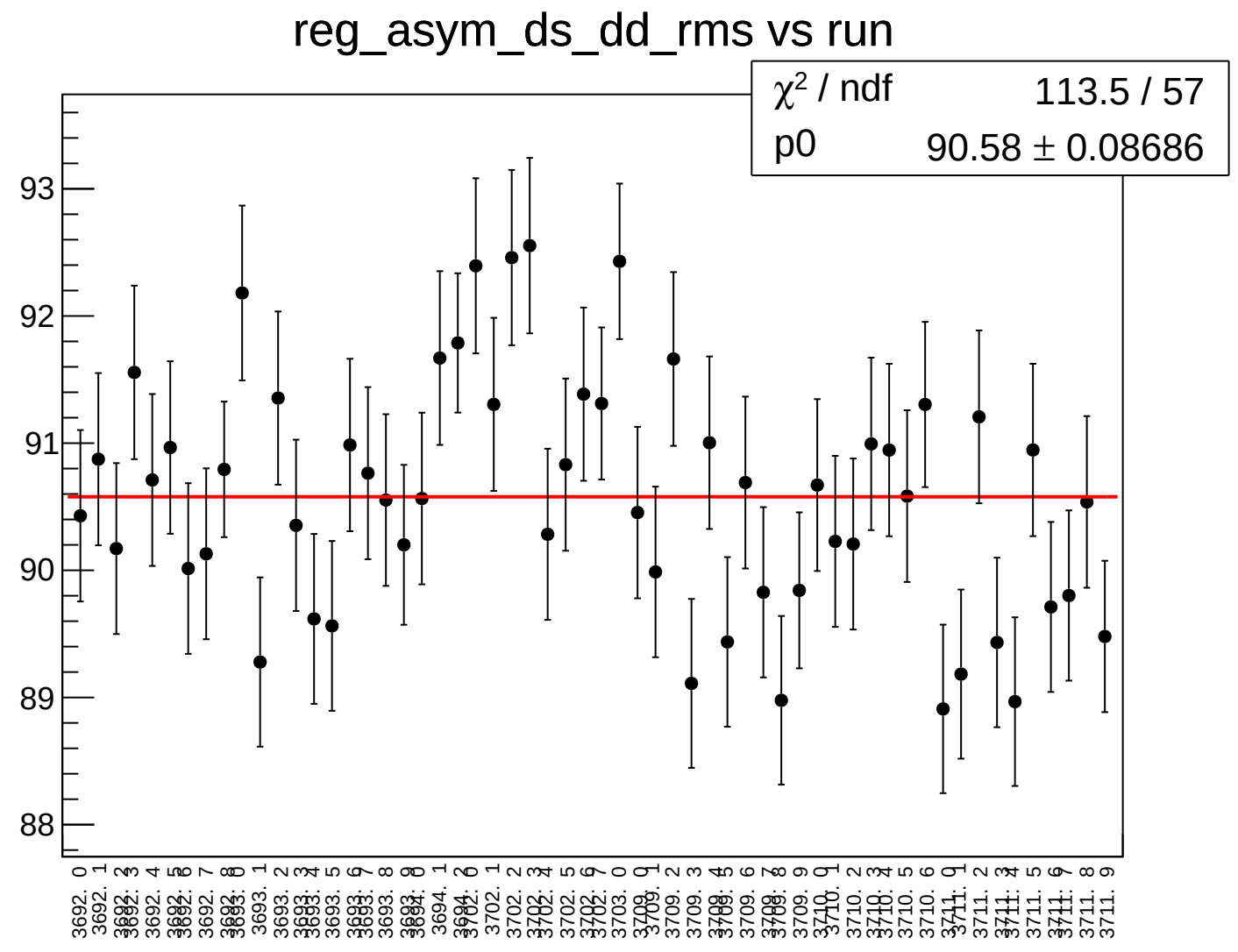

asym_ds_avg_mean vs run
χ² / ndf 73.77 / 57
p0 1404 ± 491.3
pull
Entries 58
Mean 530.8
Std Dev 479.2

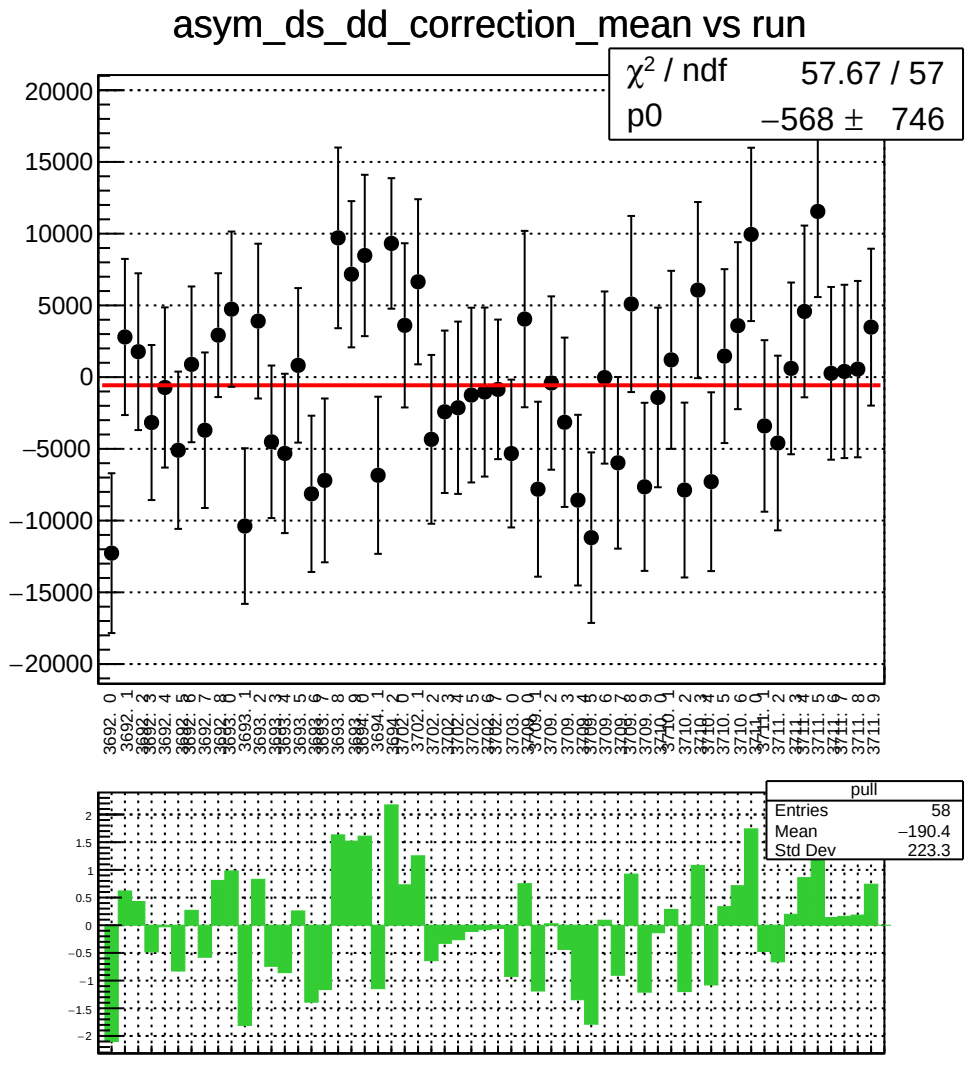

pull1D
Entries 58
Mean −0.002564
Std Dev 1.128

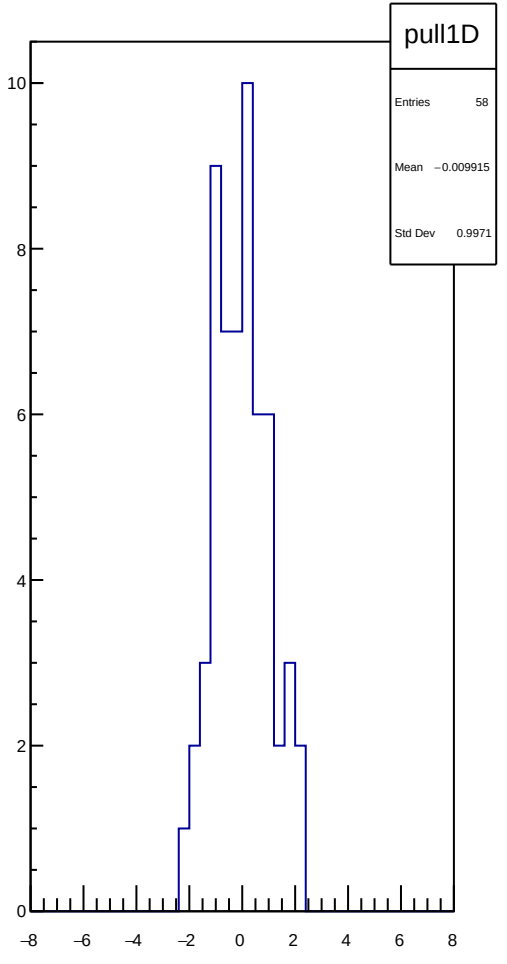

asym_ds_avg_rms vs run
χ² / ndf 7.448e+04 / 57
p0 349.7 ± 0.3474
550
500
450
400
350
300
250

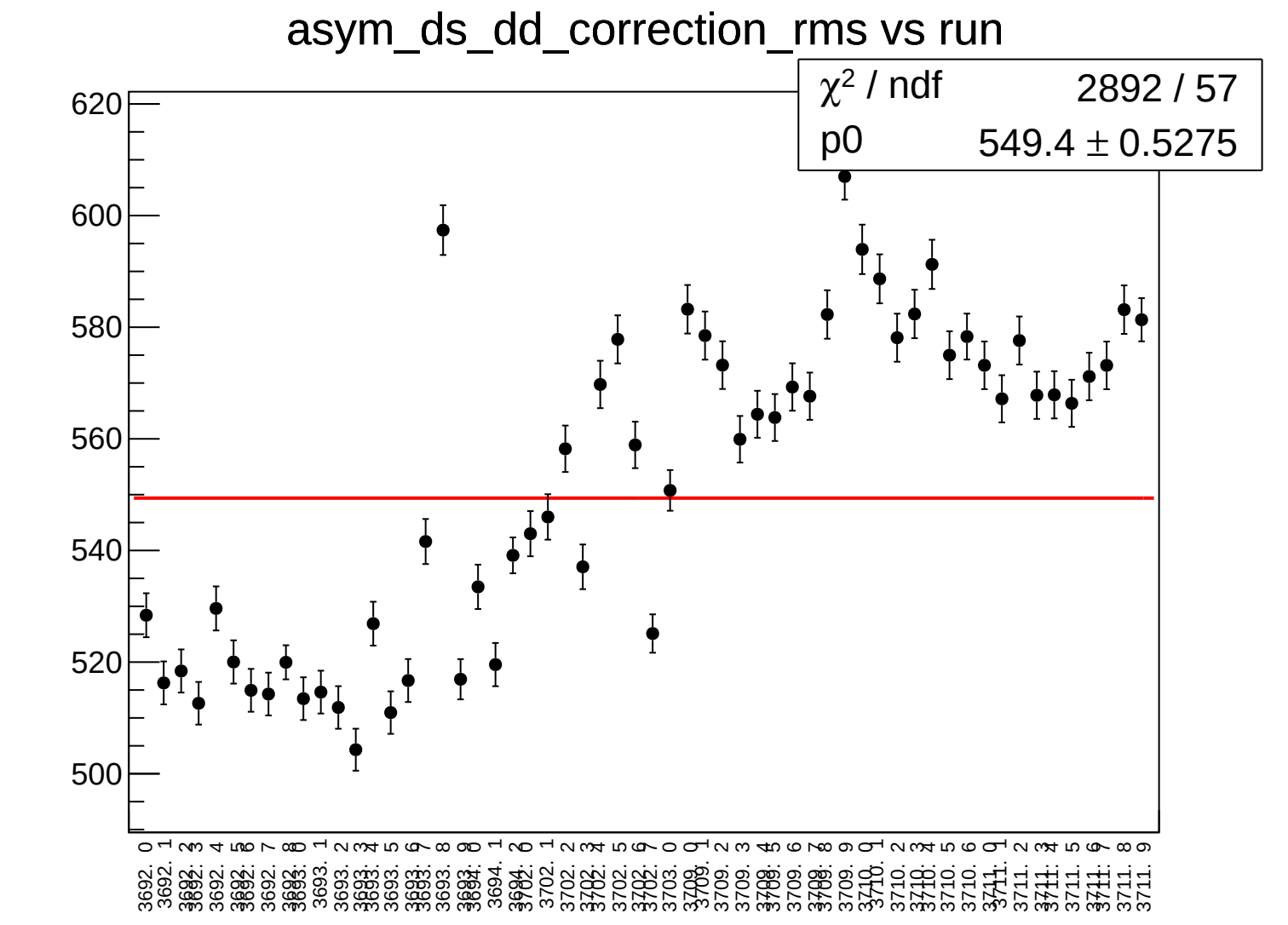

reg_asym_ds_dd_mean vs run
χ² / ndf 35.72 / 57
p0 74.27 ± 122.8
pull
Entries 58
Mean −185.2
Std Dev 228.3

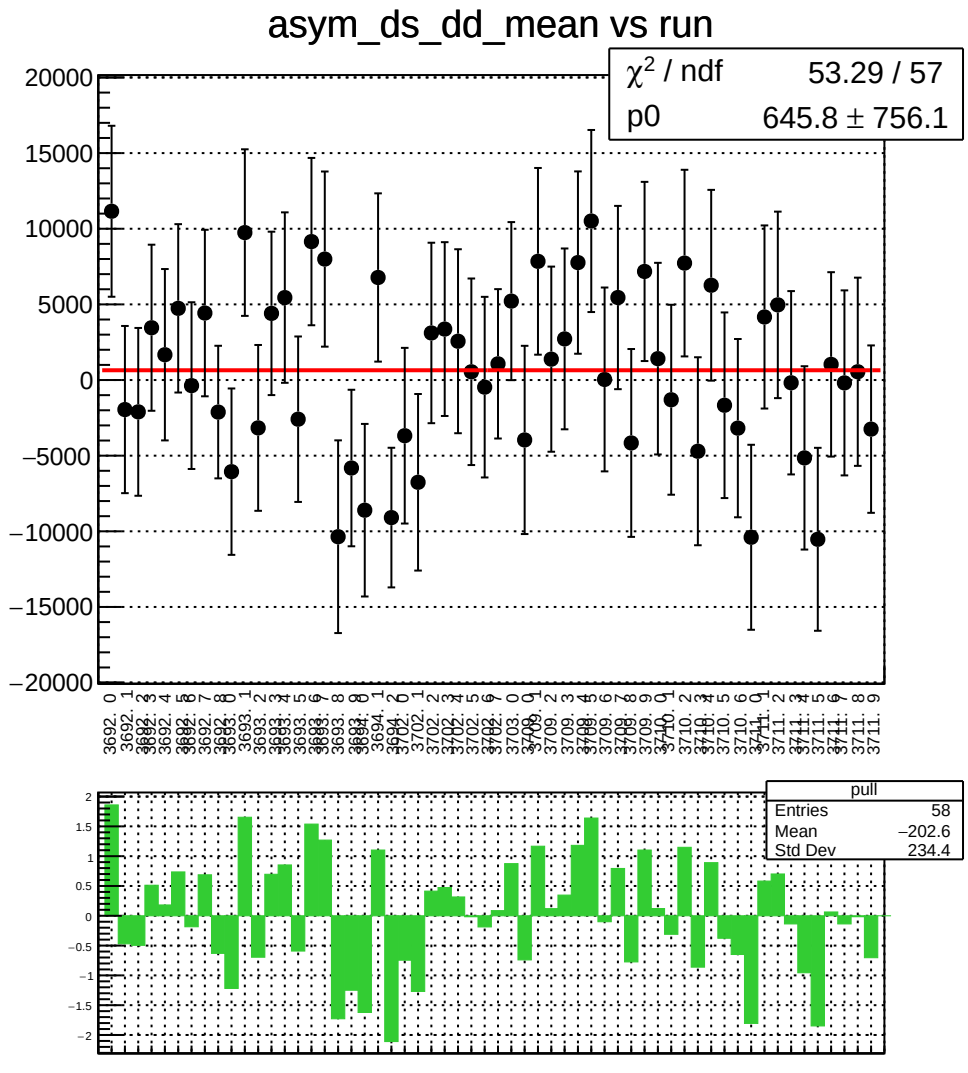

pull1D
Entries 58
Mean −0.00657
Std Dev 0.7848

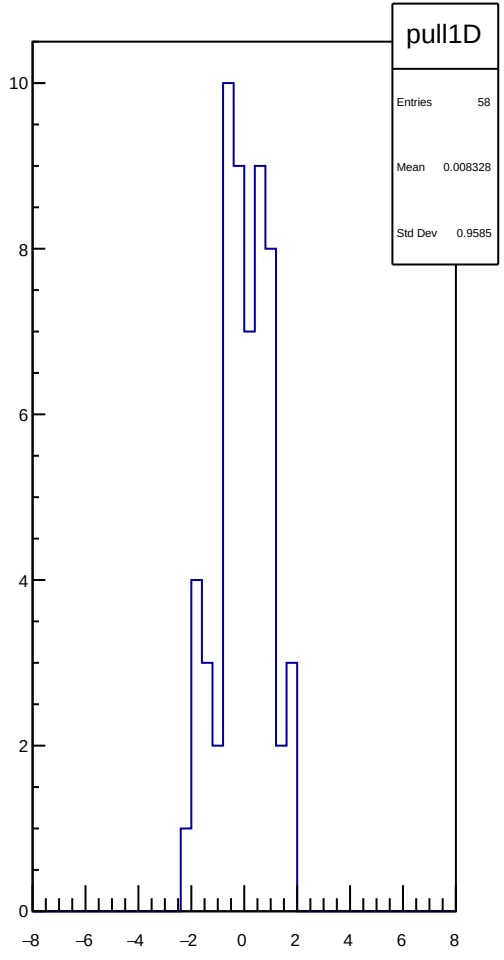

reg_asym_ds_dd_rms vs run
χ² / ndf 113.5 / 57
p0 90.58 ± 0.08686
93
92
91
90
89
88

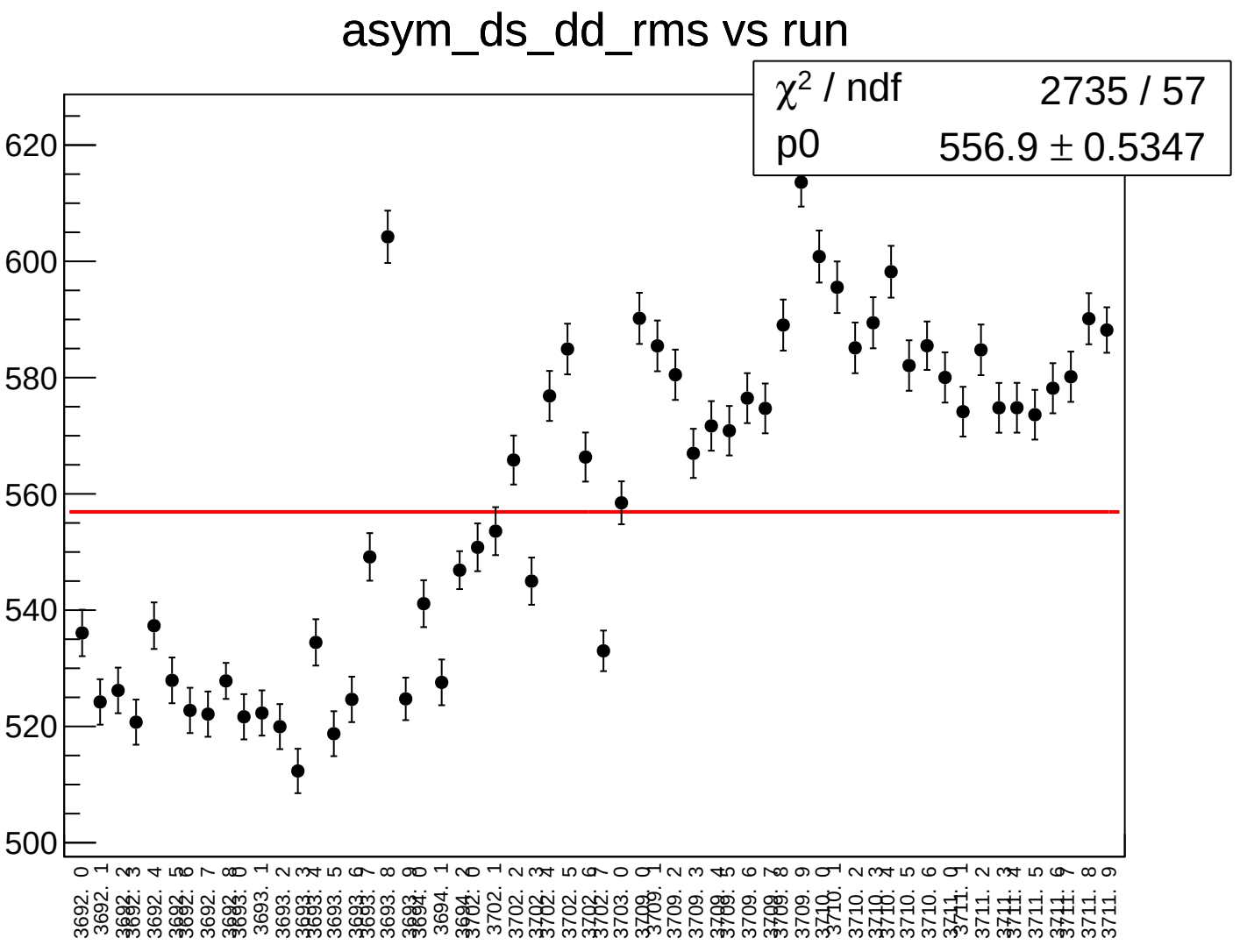

asym_ds_dd_correction_mean vs run
χ² / ndf 57.67 / 57
p0 −568 ± 746
pull
Entries 58
Mean −190.4
Std Dev 223.3

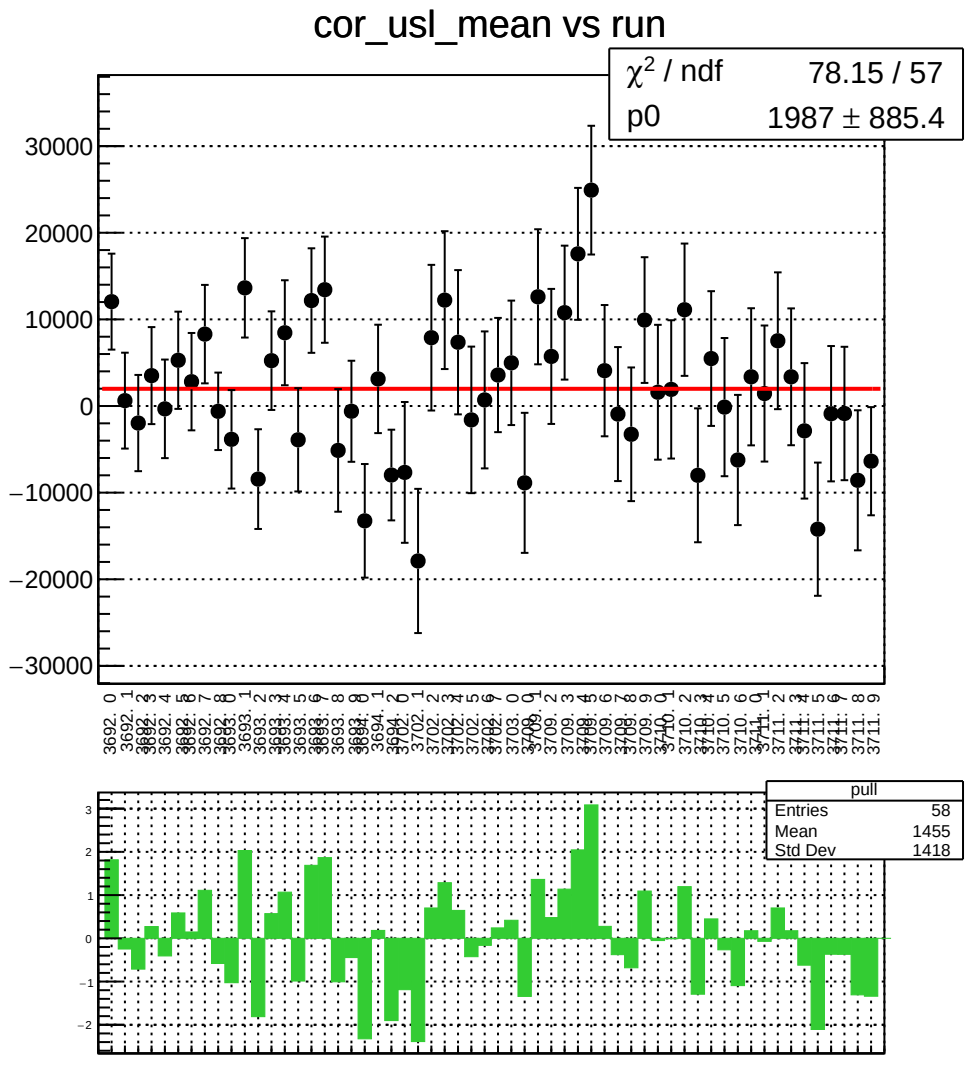

pull1D
Entries 58
Mean −0.009915
Std Dev 0.9971

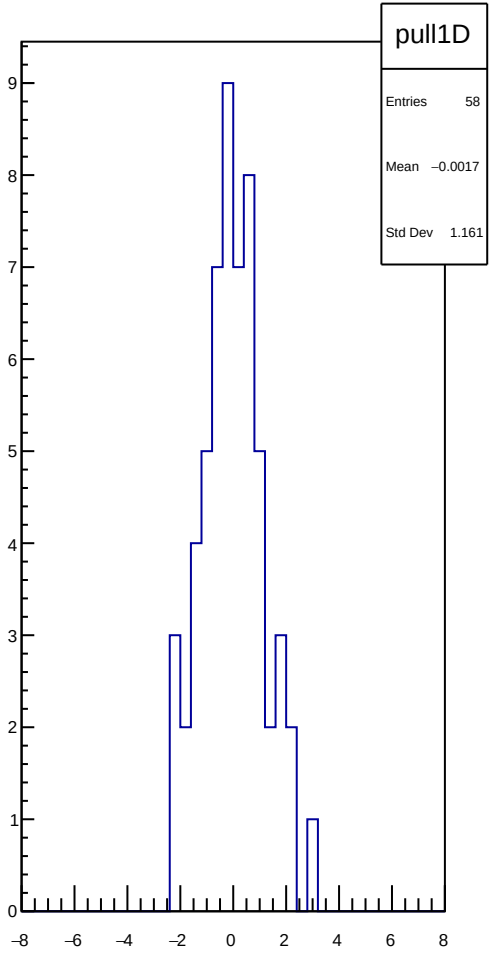

asym_ds_dd_correction_rms vs run
χ² / ndf 2892 / 57
p0 549.4 ± 0.5275
620
600
580
560
540
520
500

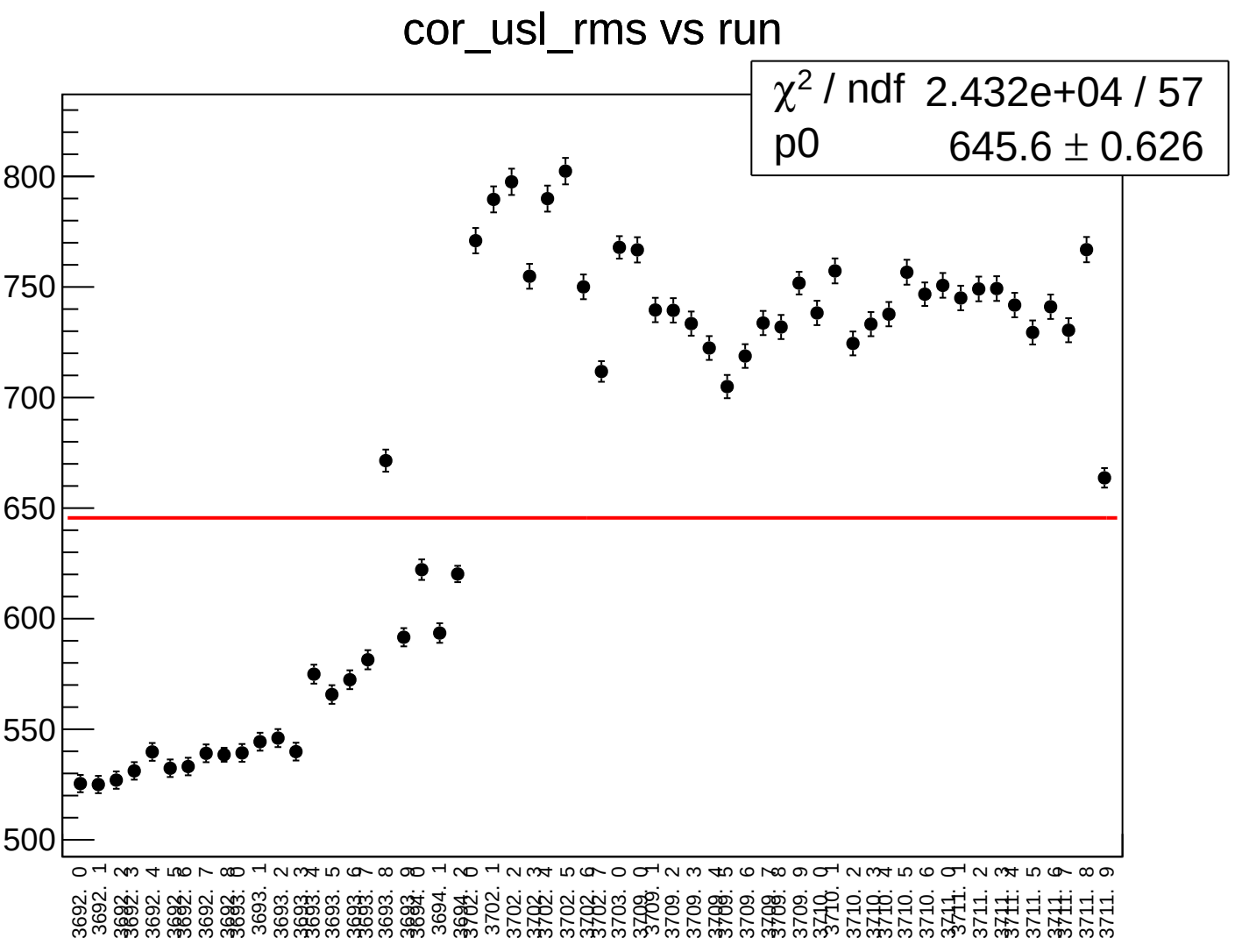

asym_ds_dd_mean vs run
χ² / ndf 53.29 / 57
p0 645.8 ± 756.1
pull
Entries 58
Mean −202.6
Std Dev 234.4

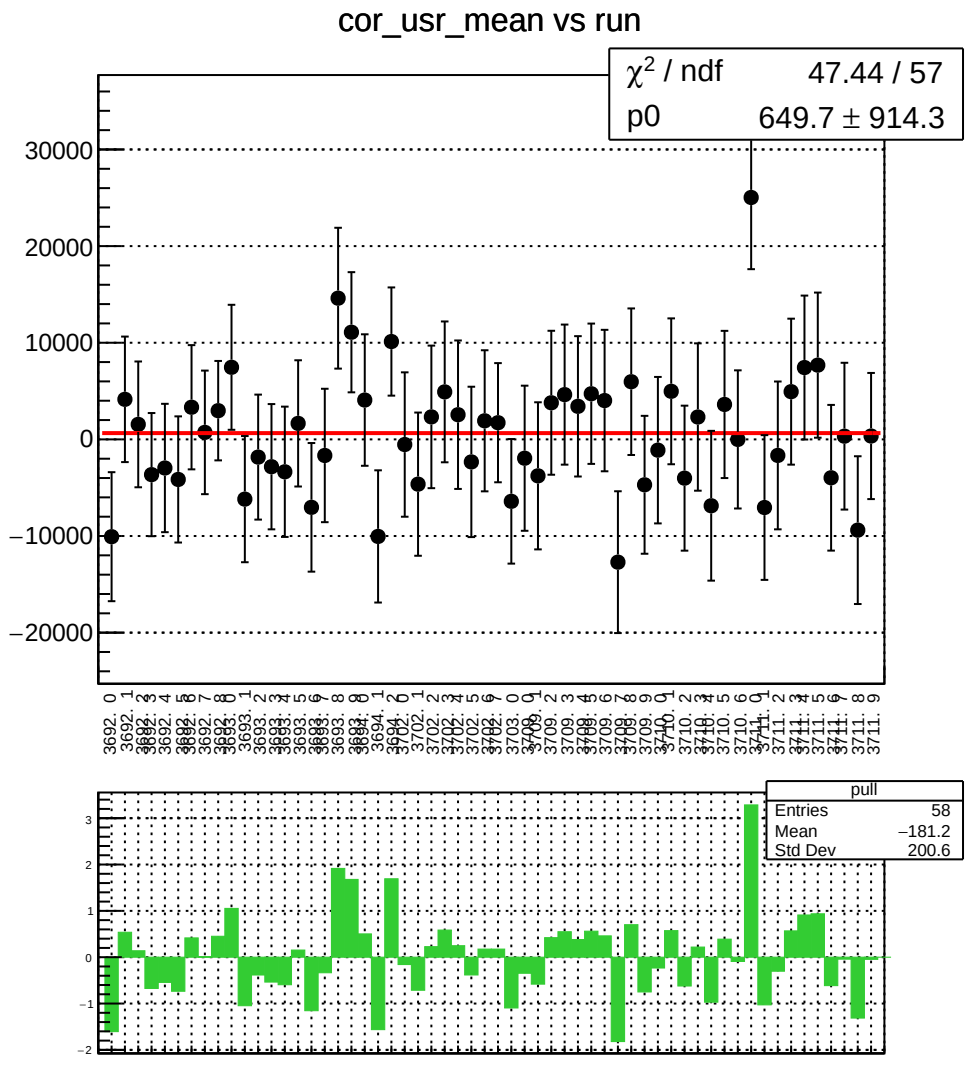

pull1D
Entries 58
Mean 0.008328
Std Dev 0.9585

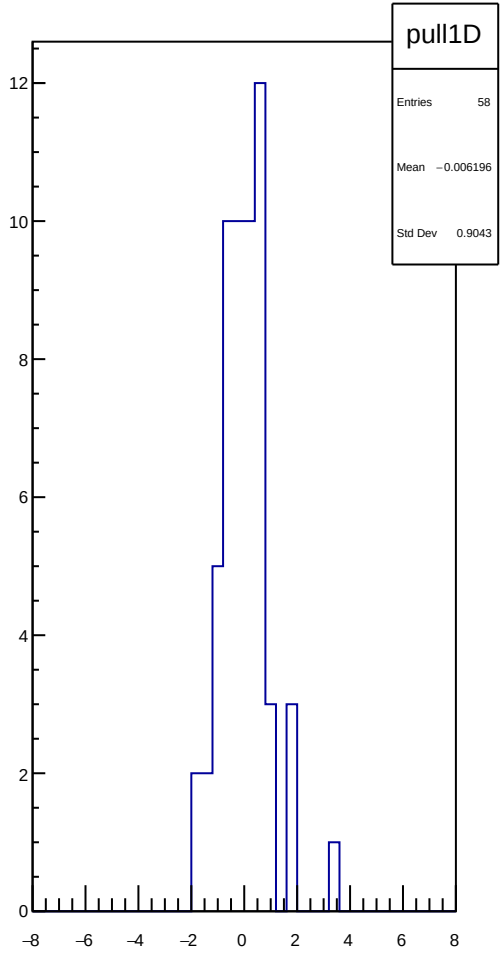

asym_ds_dd_rms vs run
χ² / ndf 2735 / 57
p0 556.9 ± 0.5347
620
600
580
560
540
520
500

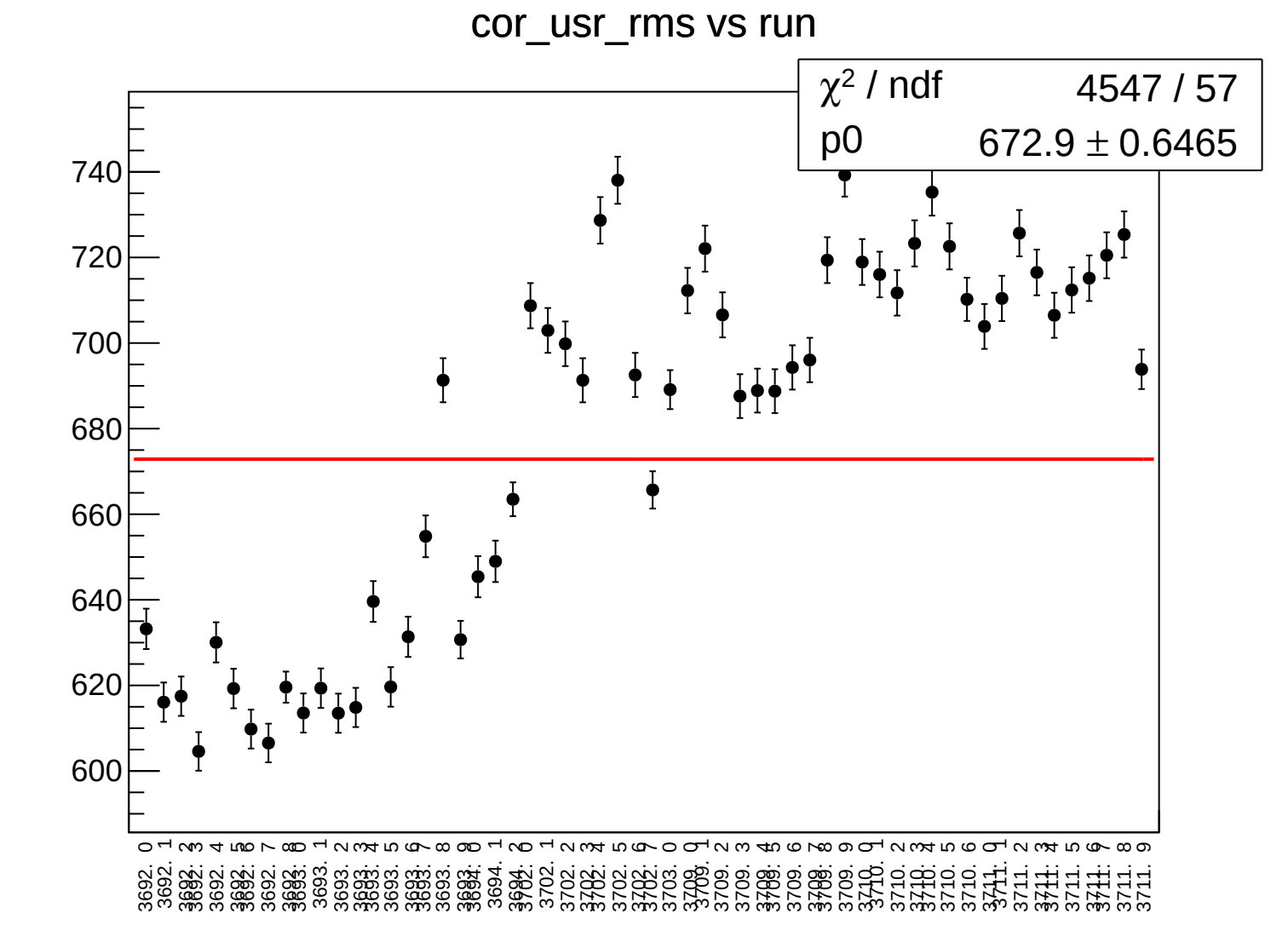

cor_usl_mean vs run
χ² / ndf 78.15 / 57
p0 1987 ± 885.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 58
Mean 1455
Std Dev 1418
3
2
1
0
−1
−2

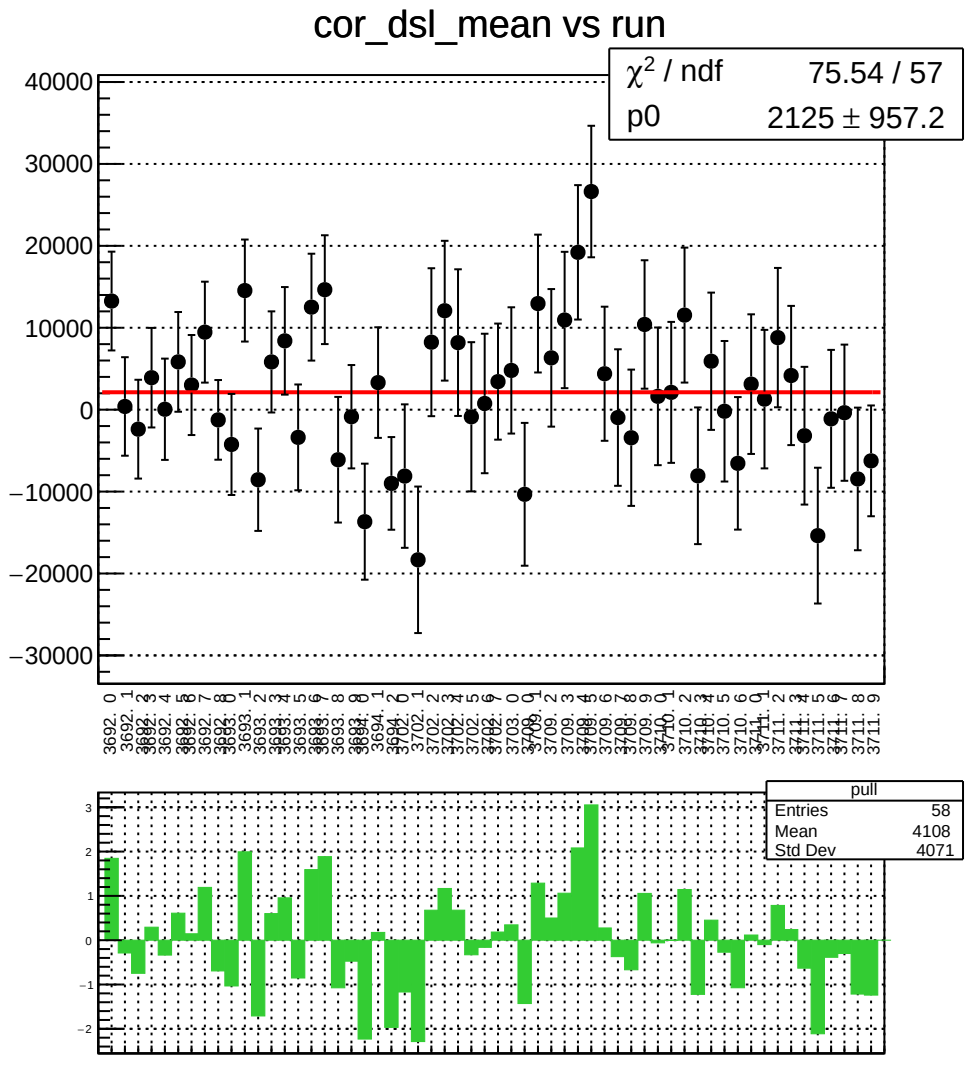

pull1D
Entries 58
Mean −0.0017
Std Dev 1.161
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

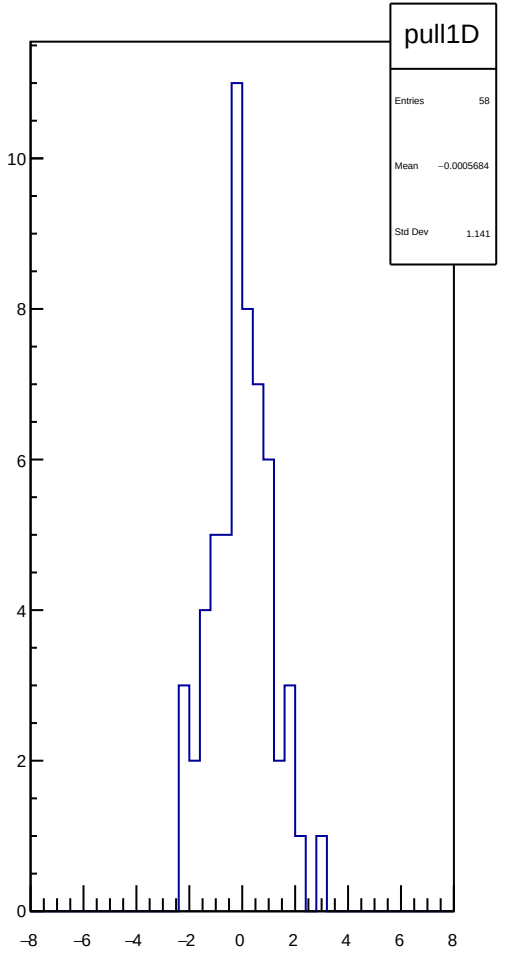

cor_usl_rms vs run
χ² / ndf 2.432e+04 / 57
p0 645.6 ± 0.626
800
750
700
650
600
550
500

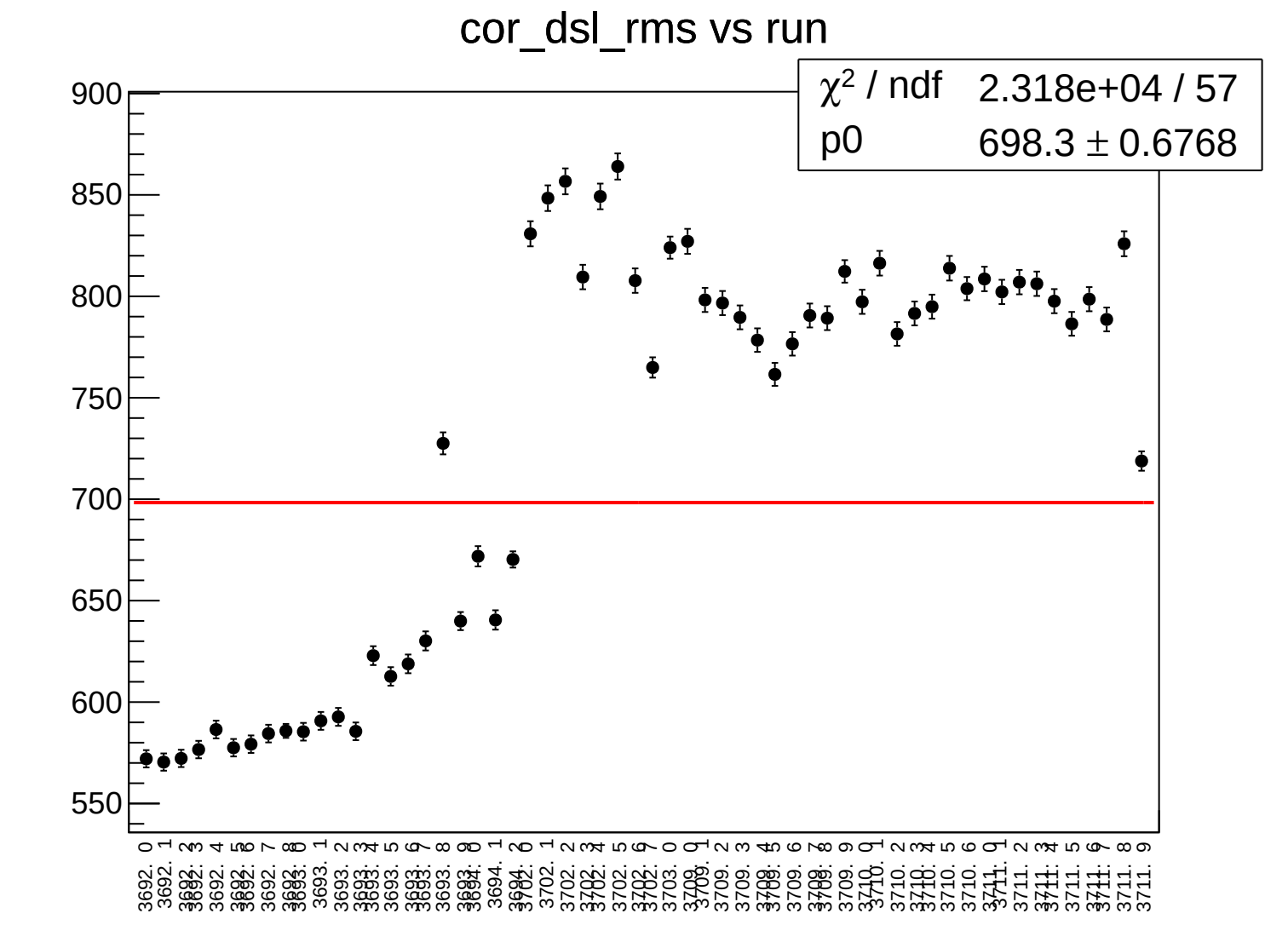

cor_usr_mean vs run
χ² / ndf 47.44 / 57
p0 649.7 ± 914.3
30000
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −181.2
Std Dev 200.6
3
2
1
0
−1
−2

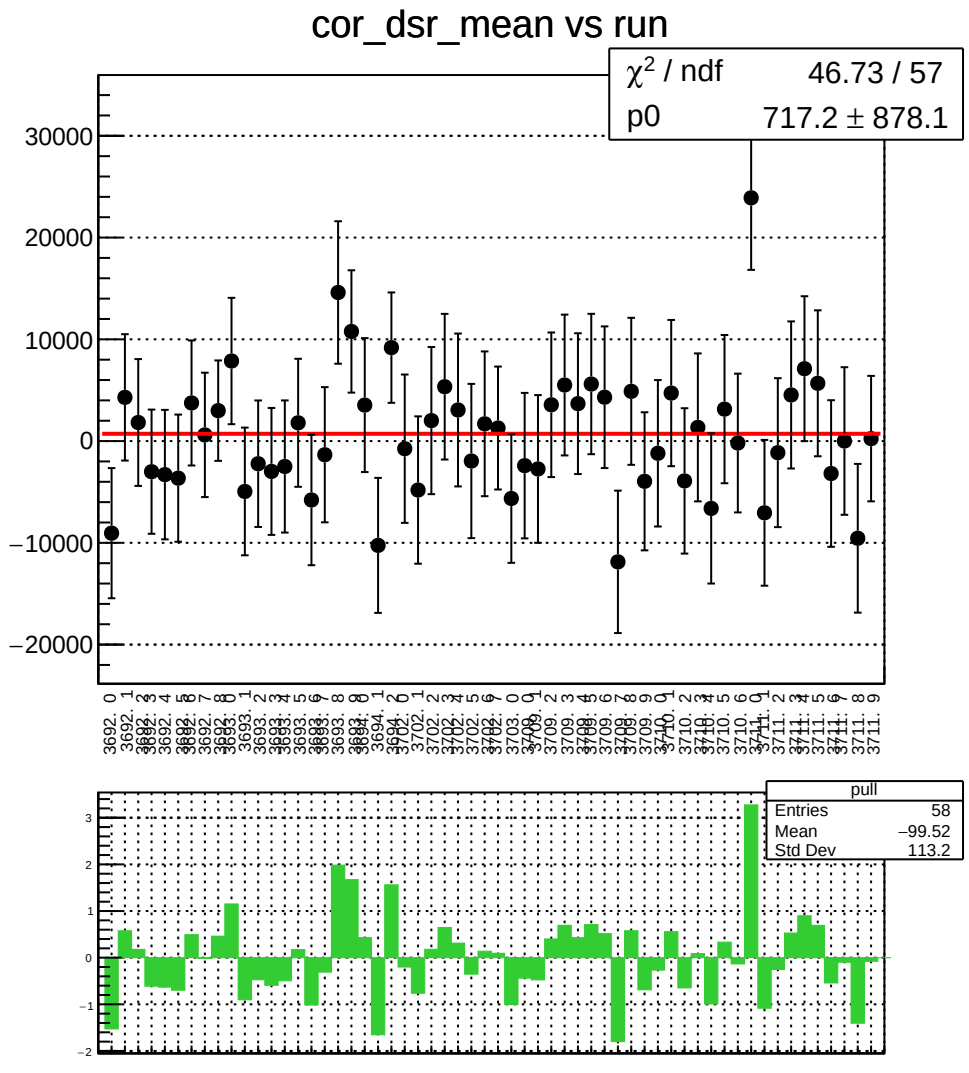

pull1D
Entries 58
Mean −0.006196
Std Dev 0.9043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

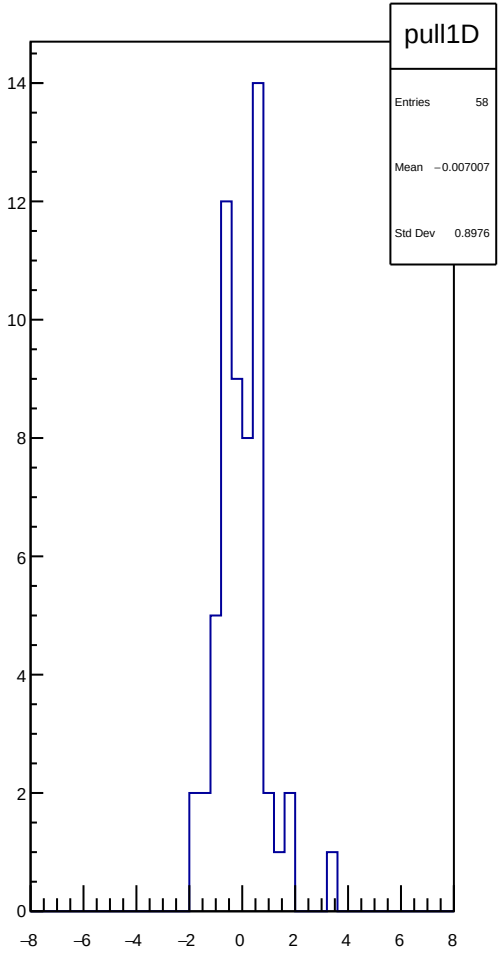

cor_usr_rms vs run
χ² / ndf 4547 / 57
p0 672.9 ± 0.6465
740
720
700
680
660
640
620
600

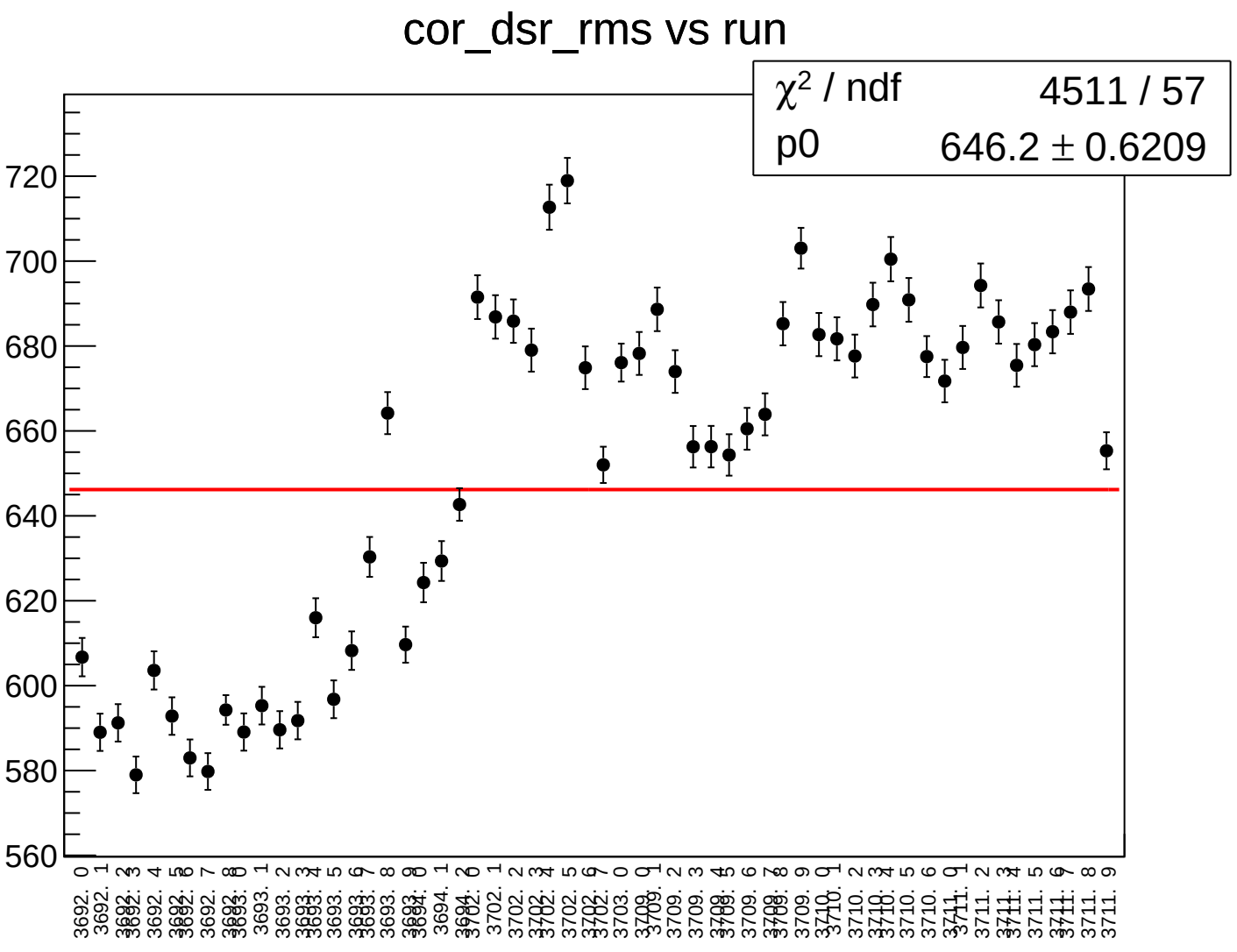

cor_dsl_mean vs run
χ² / ndf 75.54 / 57
p0 2125 ± 957.2
pull
Entries 58
Mean 4108
Std Dev 4071

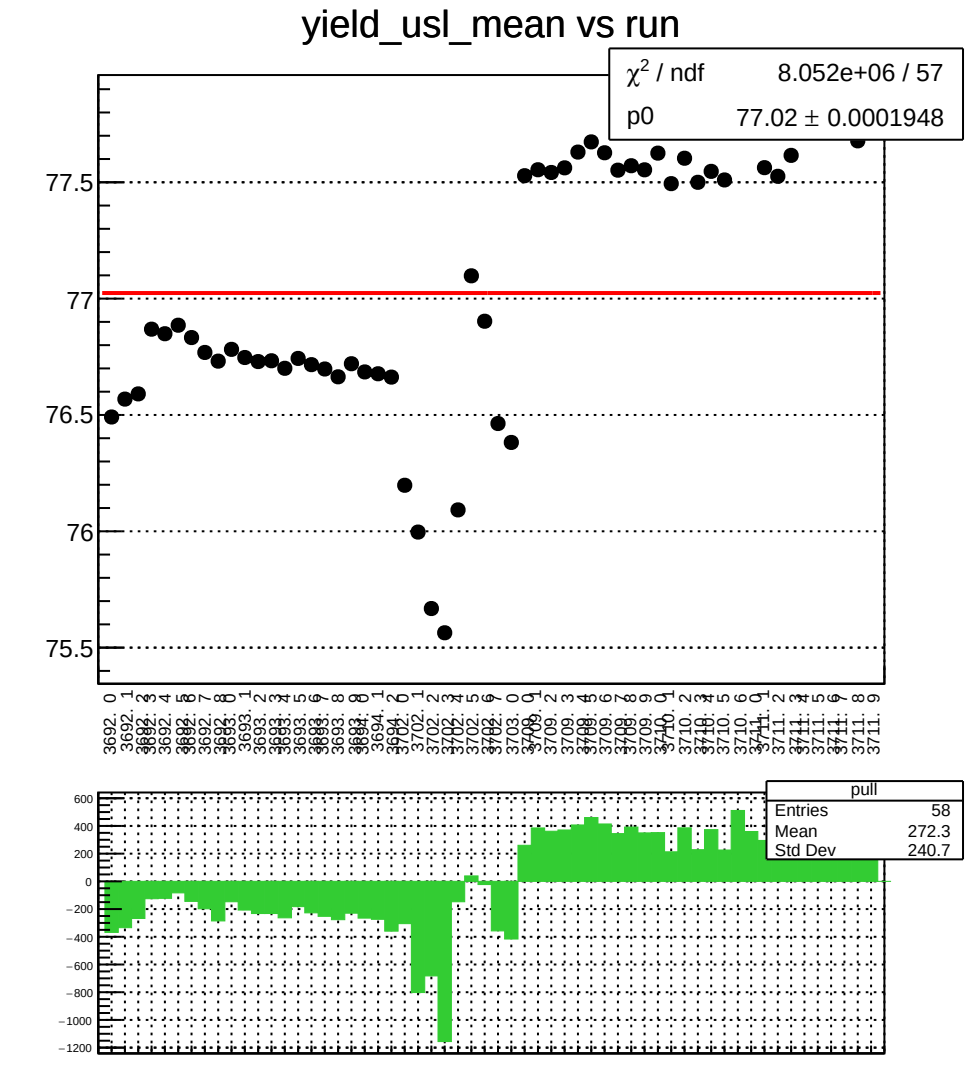

pull1D
Entries 58
Mean −0.0005684
Std Dev 1.141

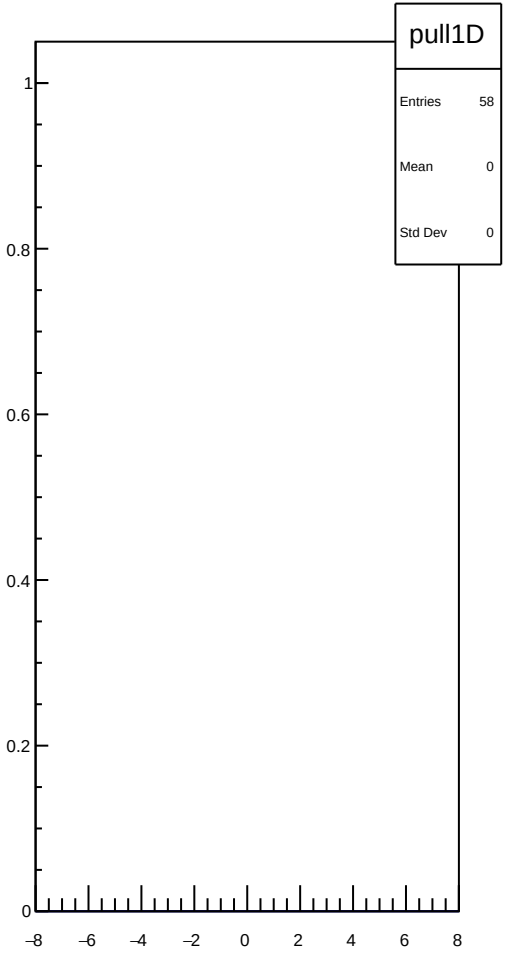

cor_dsl_rms vs run
χ² / ndf 2.318e+04 / 57
p0 698.3 ± 0.6768
900
850
800
750
700
650
600
550

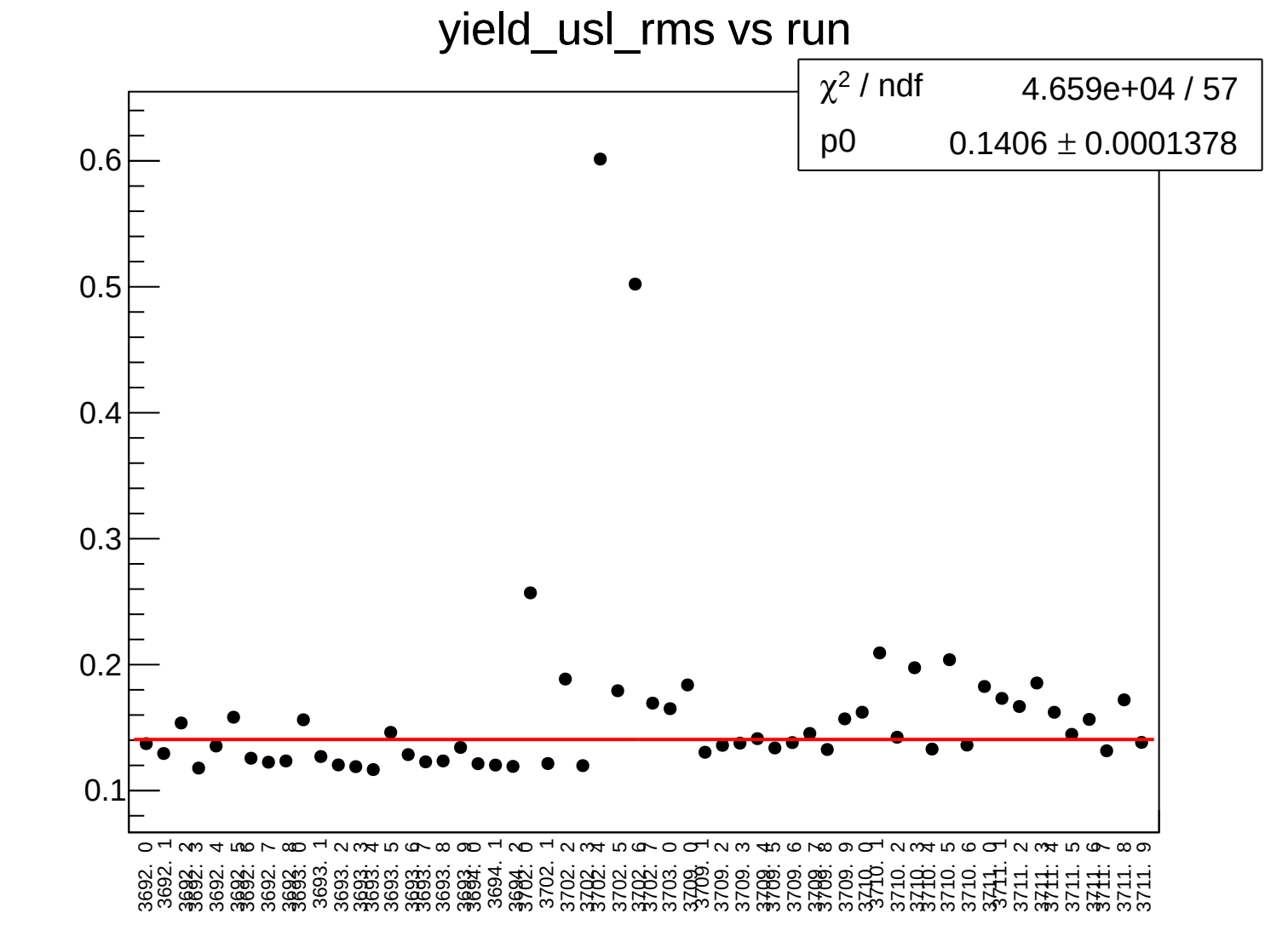

cor_dsr_mean vs run
χ^2 / ndf 46.73 / 57
p0 717.2 ± 878.1
30000
20000
10000
0
−10000
−20000
pull
Entries 58
Mean −99.52
Std Dev 113.2
3
2
1
0
−1
−2

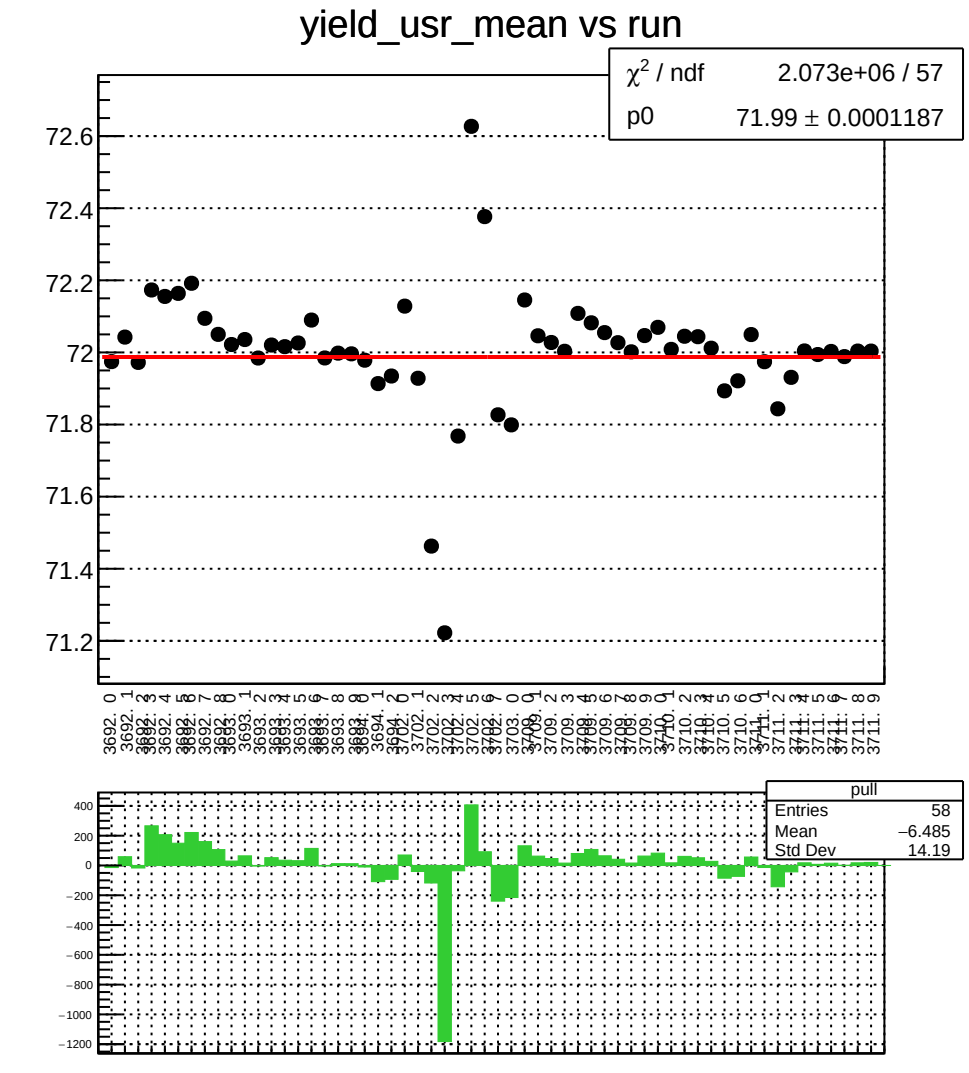

pull1D
Entries 58
Mean −0.007007
Std Dev 0.8976
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

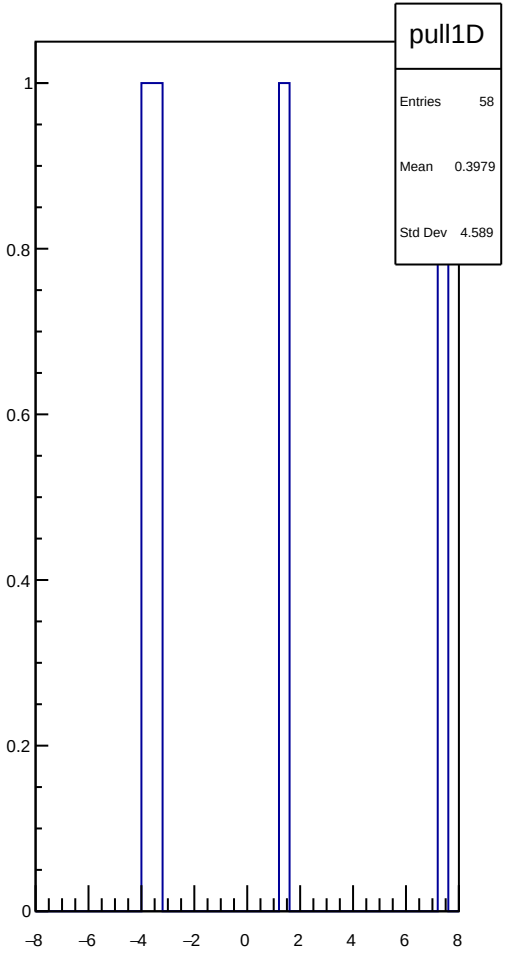

cor_dsr_rms vs run
χ² / ndf 4511 / 57
p0 646.2 ± 0.6209
720
700
680
660
640
620
600
580
560
3692. 0
3692. 1
3692. 2
3692. 3
3692. 4
3692. 5
3692. 6
3692. 7
3693. 0
3693. 1
3693. 2
3693. 3
3693. 4
3693. 5
3693. 6
3693. 7
3693. 8
3693. 9
3694. 0
3694. 1
3694. 2
3702. 0
3702. 1
3702. 2
3702. 3
3702. 4
3702. 5
3702. 6
3702. 7
3703. 0
3709. 0
3709. 1
3709. 2
3709. 3
3709. 4
3709. 5
3709. 6
3709. 7
3709. 8
3709. 9
3710. 0
3710. 1
3710. 2
3710. 3
3710. 4
3710. 5
3710. 6
3711. 0
3711. 1
3711. 2
3711. 3
3711. 4
3711. 5
3711. 6
3711. 7
3711. 8
3711. 9

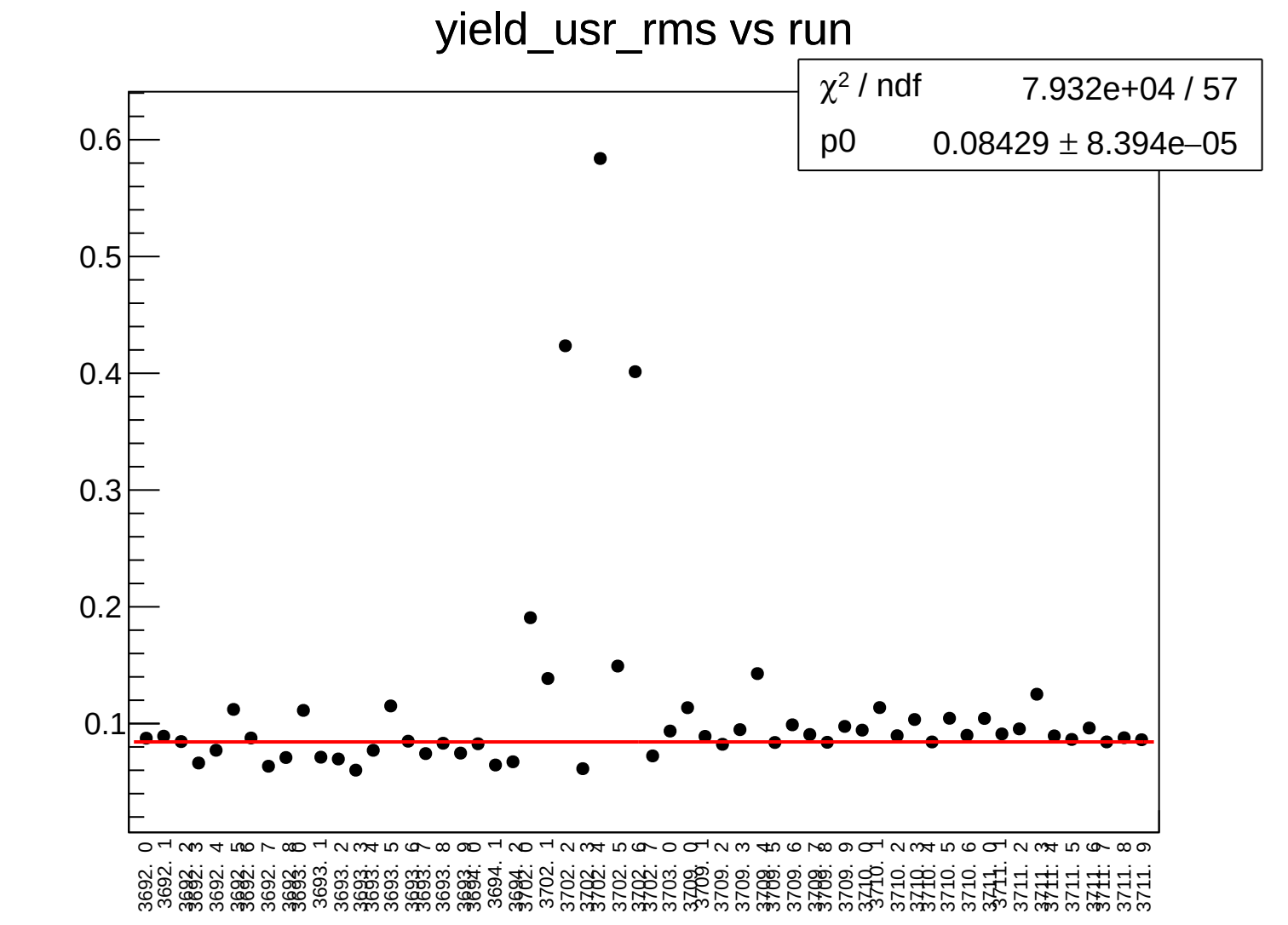

yield_usl_mean vs run
χ² / ndf 8.052e+06 / 57
p0 77.02 ± 0.0001948
77.5
77
76.5
76
75.5
pull
Entries 58
Mean 272.3
Std Dev 240.7
600
400
200
0
−200
−400
−600
−800
−1000
−1200

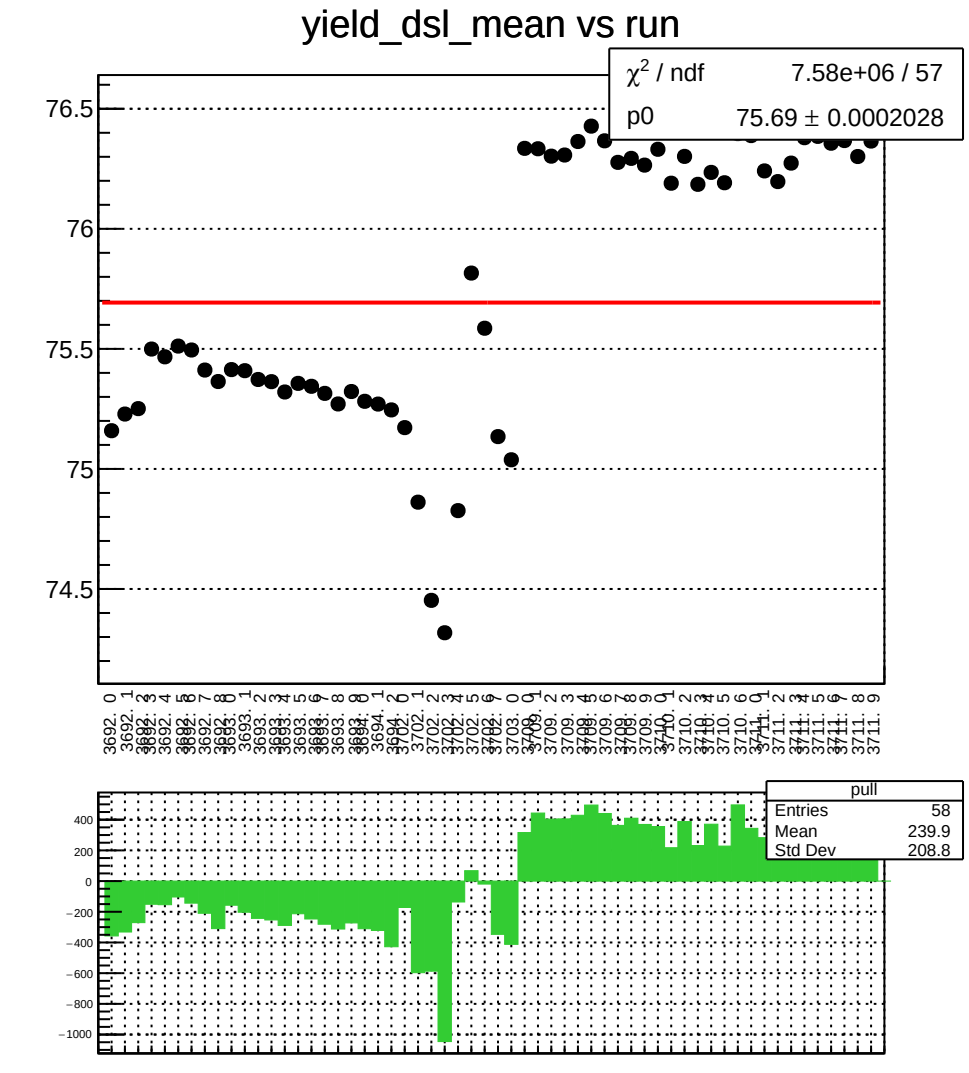

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

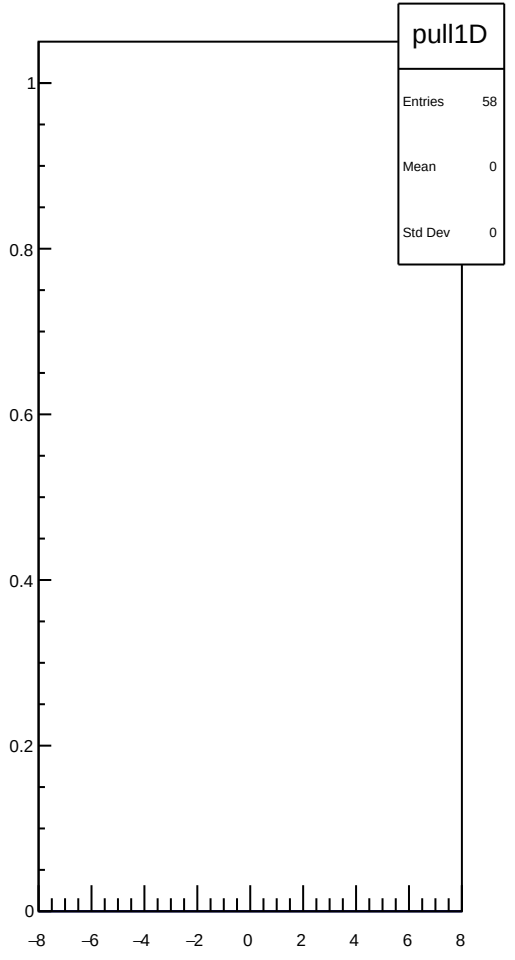

yield_usl_rms vs run
χ² / ndf 4.659e+04 / 57
p0 0.1406 ± 0.0001378
0.6
0.5
0.4
0.3
0.2
0.1

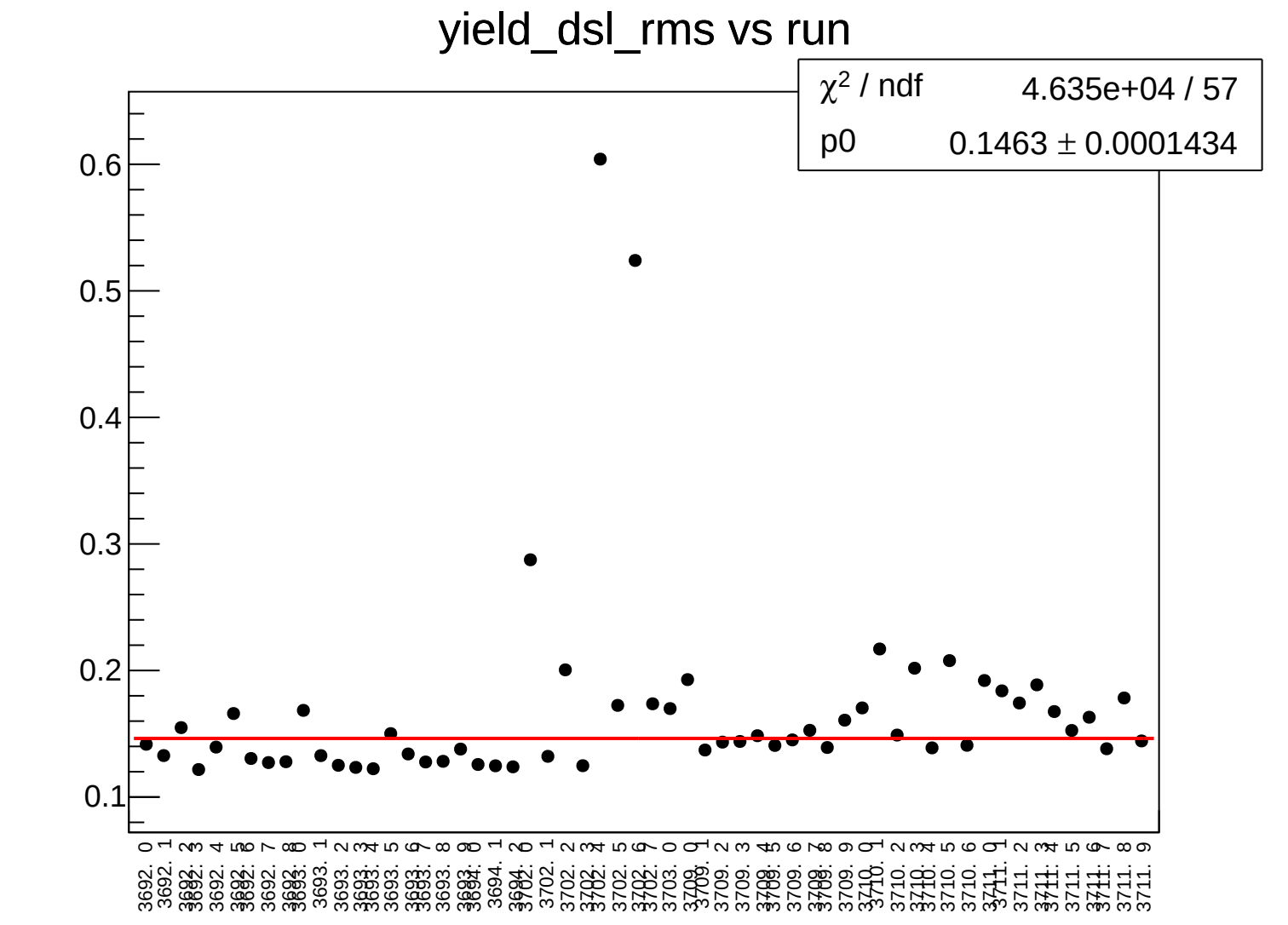

yield_usr_mean vs run
χ² / ndf 2.073e+06 / 57
p0 71.99 ± 0.0001187
72.6
72.4
72.2
72
71.8
71.6
71.4
71.2
pull
Entries 58
Mean −6.485
Std Dev 14.19
400
200
0
−200
−400
−600
−800
−1000
−1200

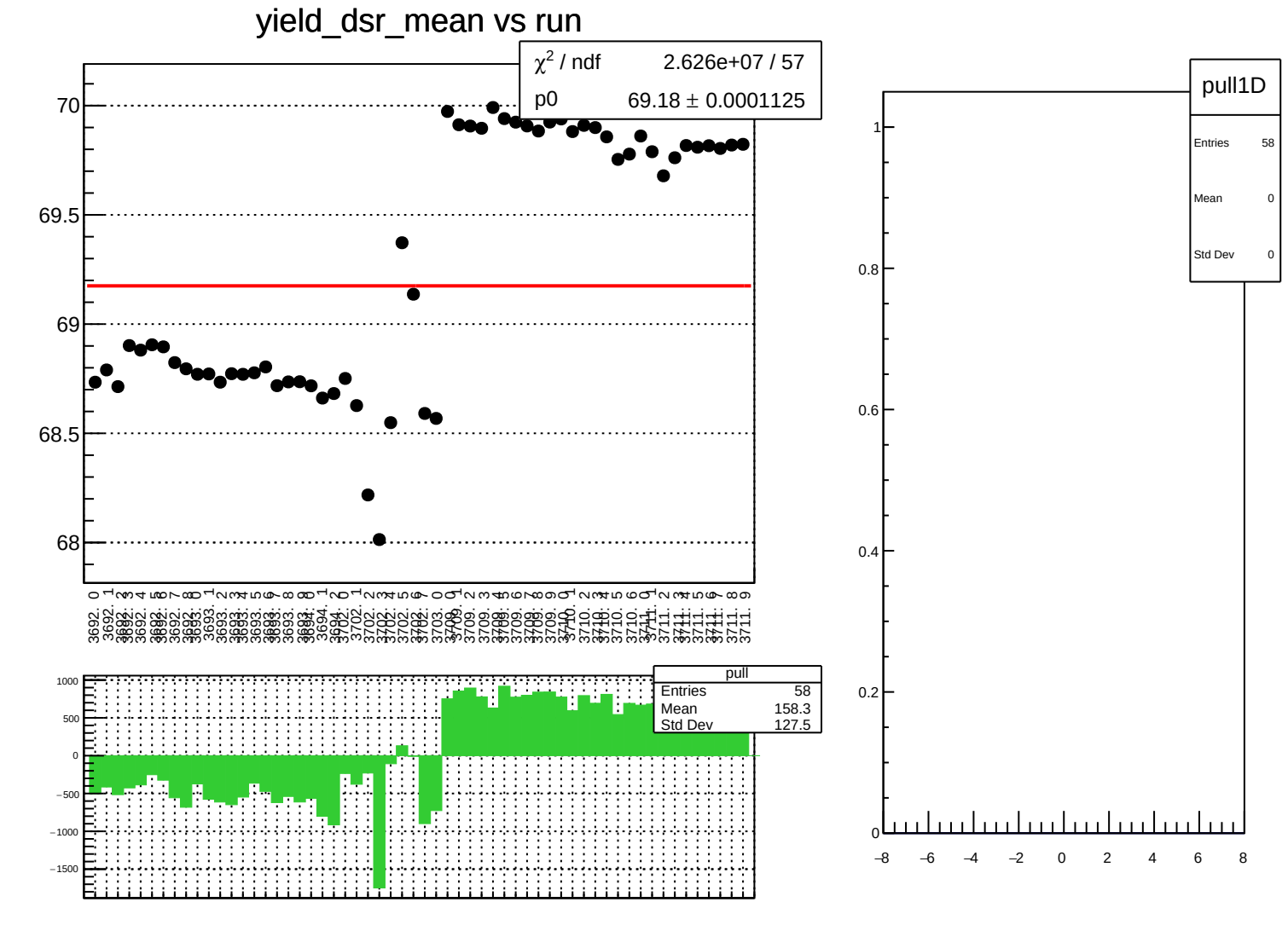

pull1D
Entries 58
Mean 0.3979
Std Dev 4.589
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

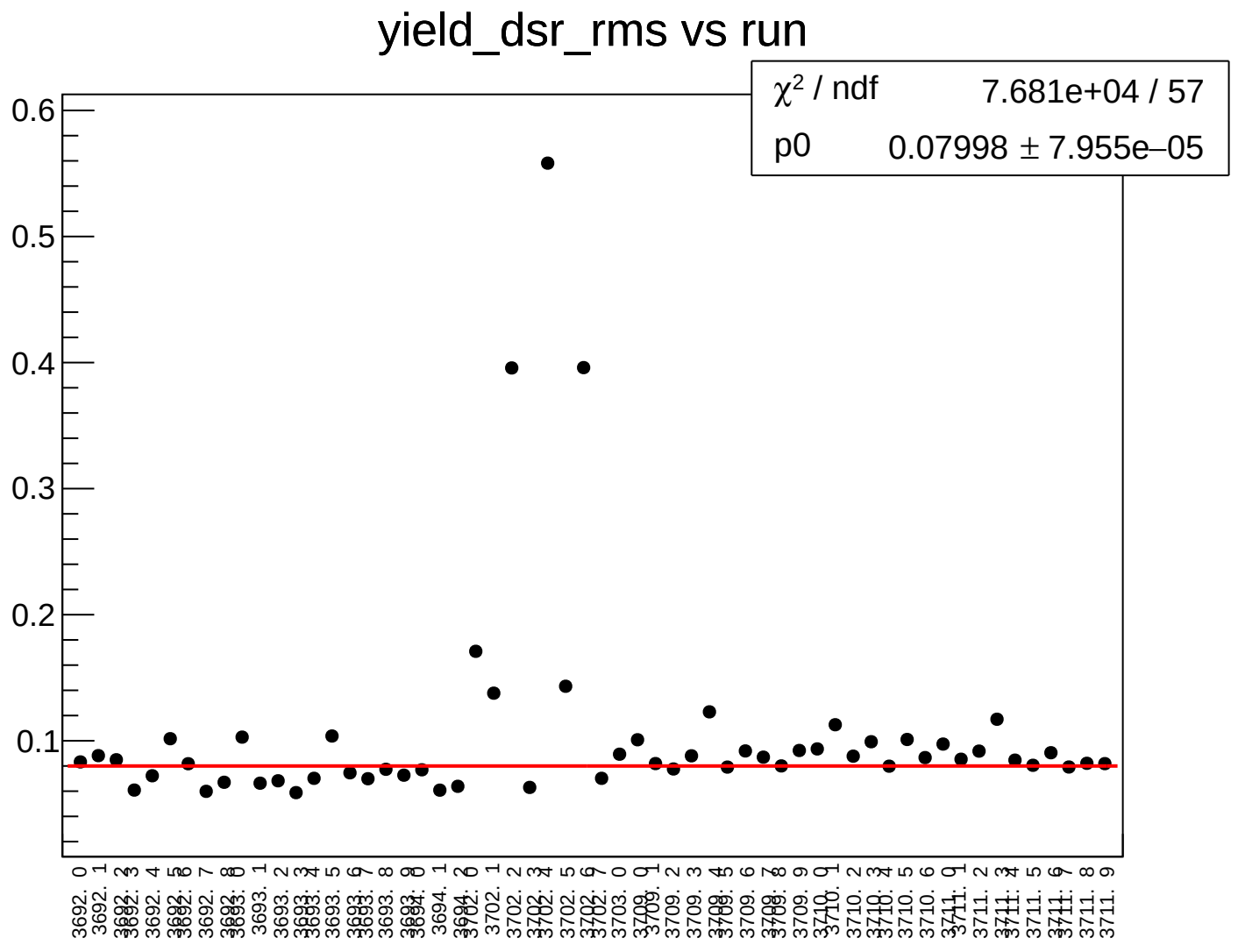

yield_usr_rms vs run
χ² / ndf 7.932e+04 / 57
p0 0.08429 ± 8.394e–05
0.6
0.5
0.4
0.3
0.2
0.1

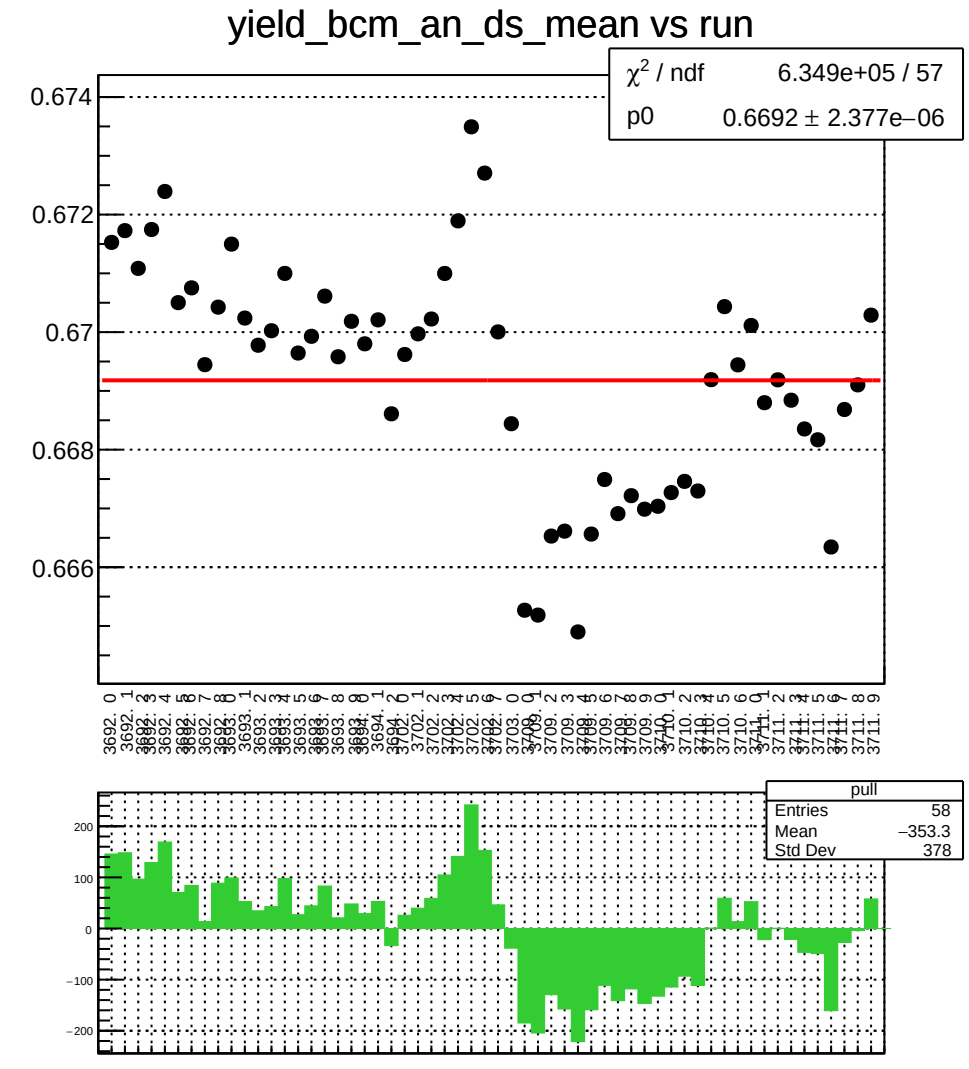

yield_dsl_mean vs run
χ² / ndf 7.58e+06 / 57
p0 75.69 ± 0.0002028
76.5
76
75.5
75
74.5
pull
Entries 58
Mean 239.9
Std Dev 208.8
400
200
0
−200
−400
−600
−800
−1000

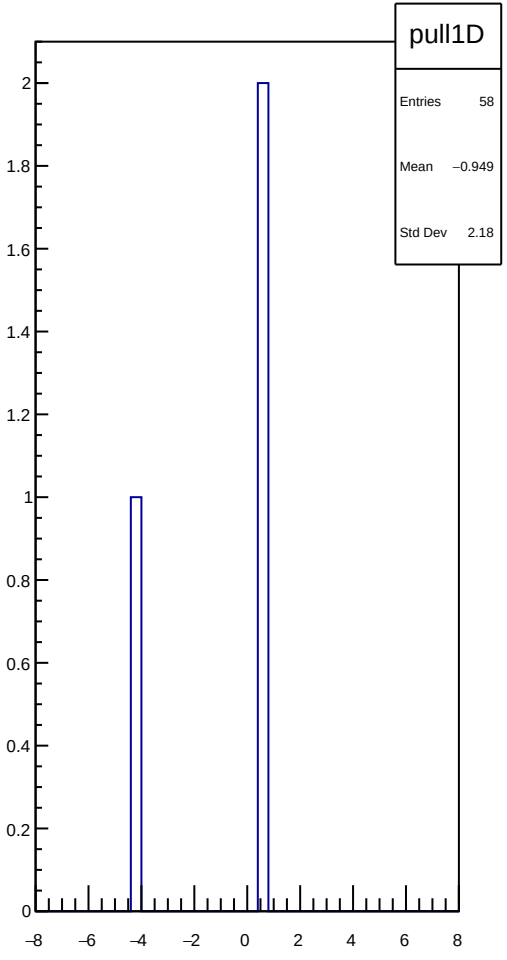

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

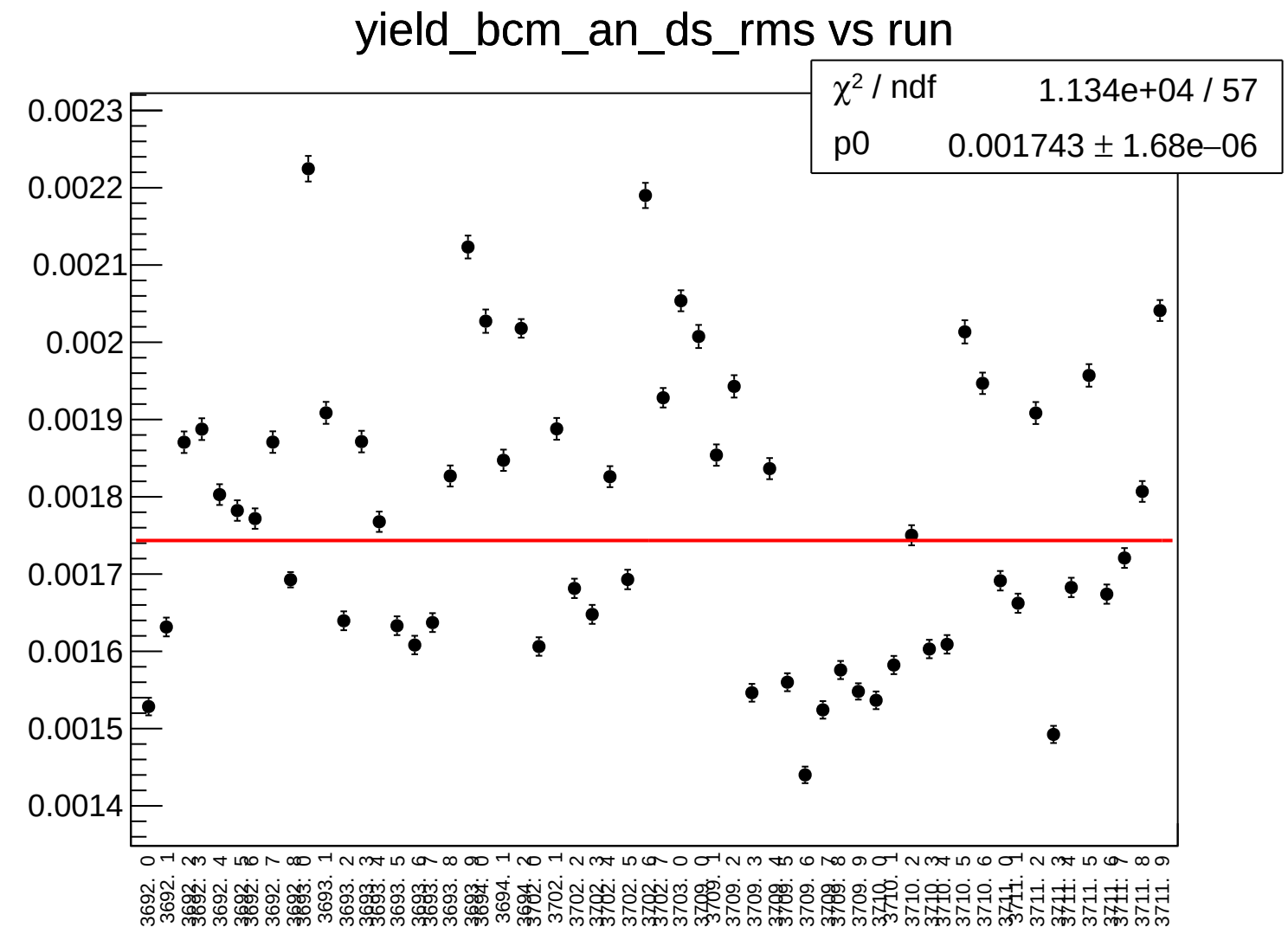

yield_dsl_rms vs run
χ² / ndf 4.635e+04 / 57
p0 0.1463 ± 0.0001434
0.6
0.5
0.4
0.3
0.2
0.1

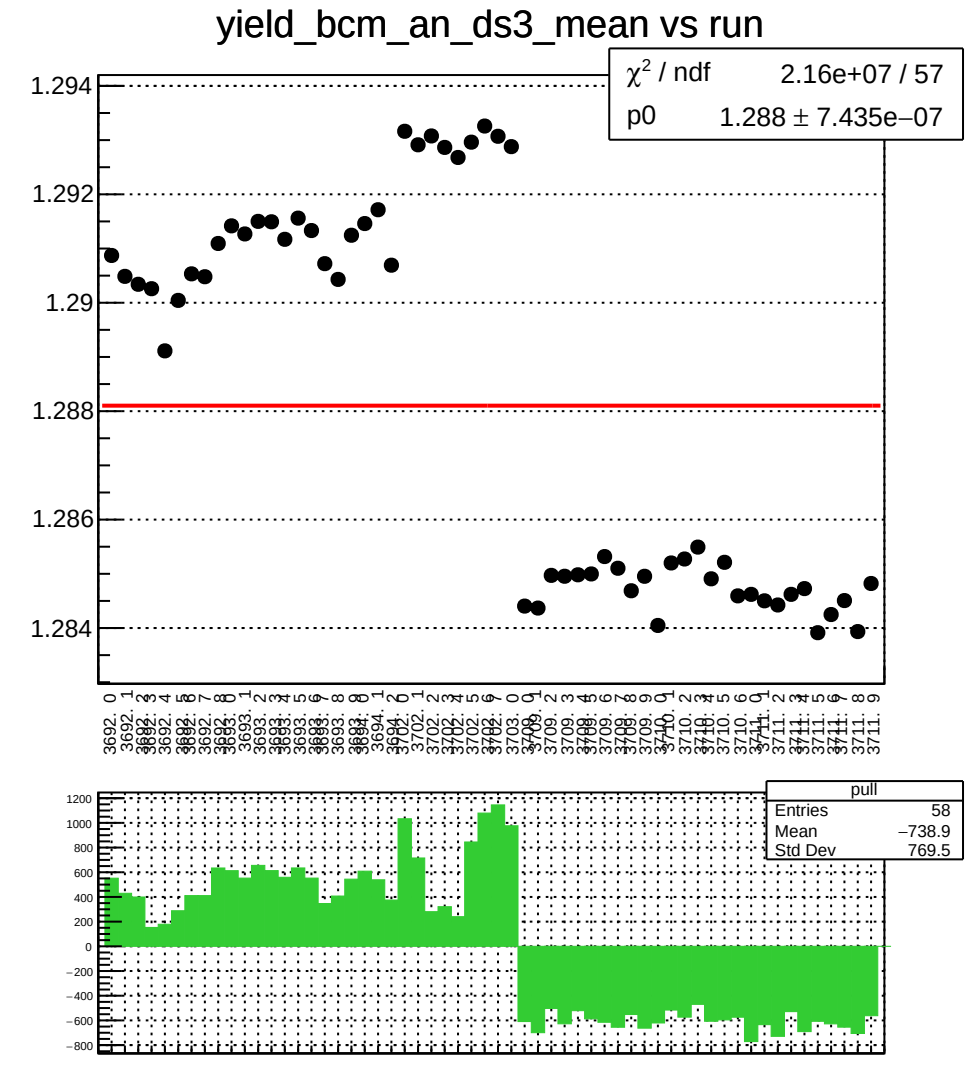

yield_dsr_mean vs run
χ² / ndf 2.626e+07 / 57
p0 69.18 ± 0.0001125
70
69.5
69
68.5
68
pull
Entries 58
Mean 158.3
Std Dev 127.5
1000
500
0
−500
−1000
−1500
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

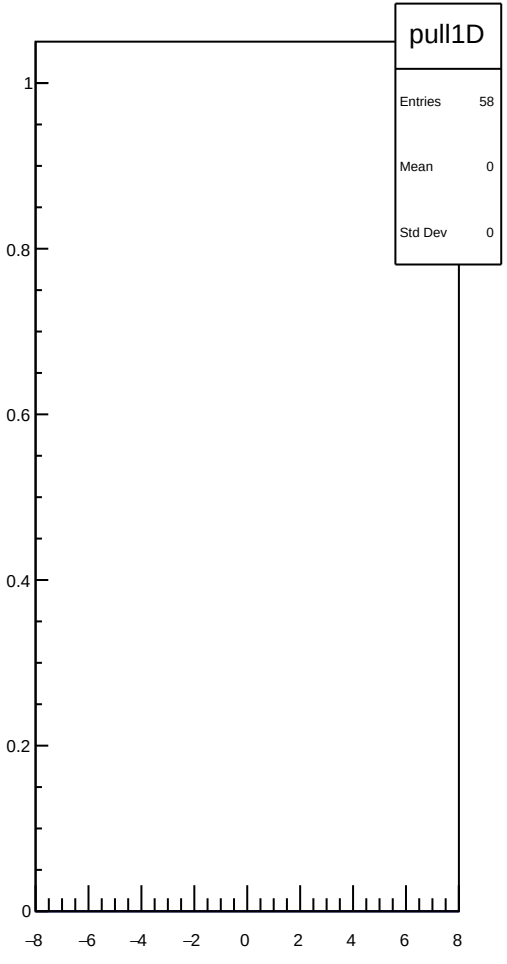

yield_dsr_rms vs run
χ² / ndf 7.681e+04 / 57
p0 0.07998 ± 7.955e−05
0.6
0.5
0.4
0.3
0.2
0.1

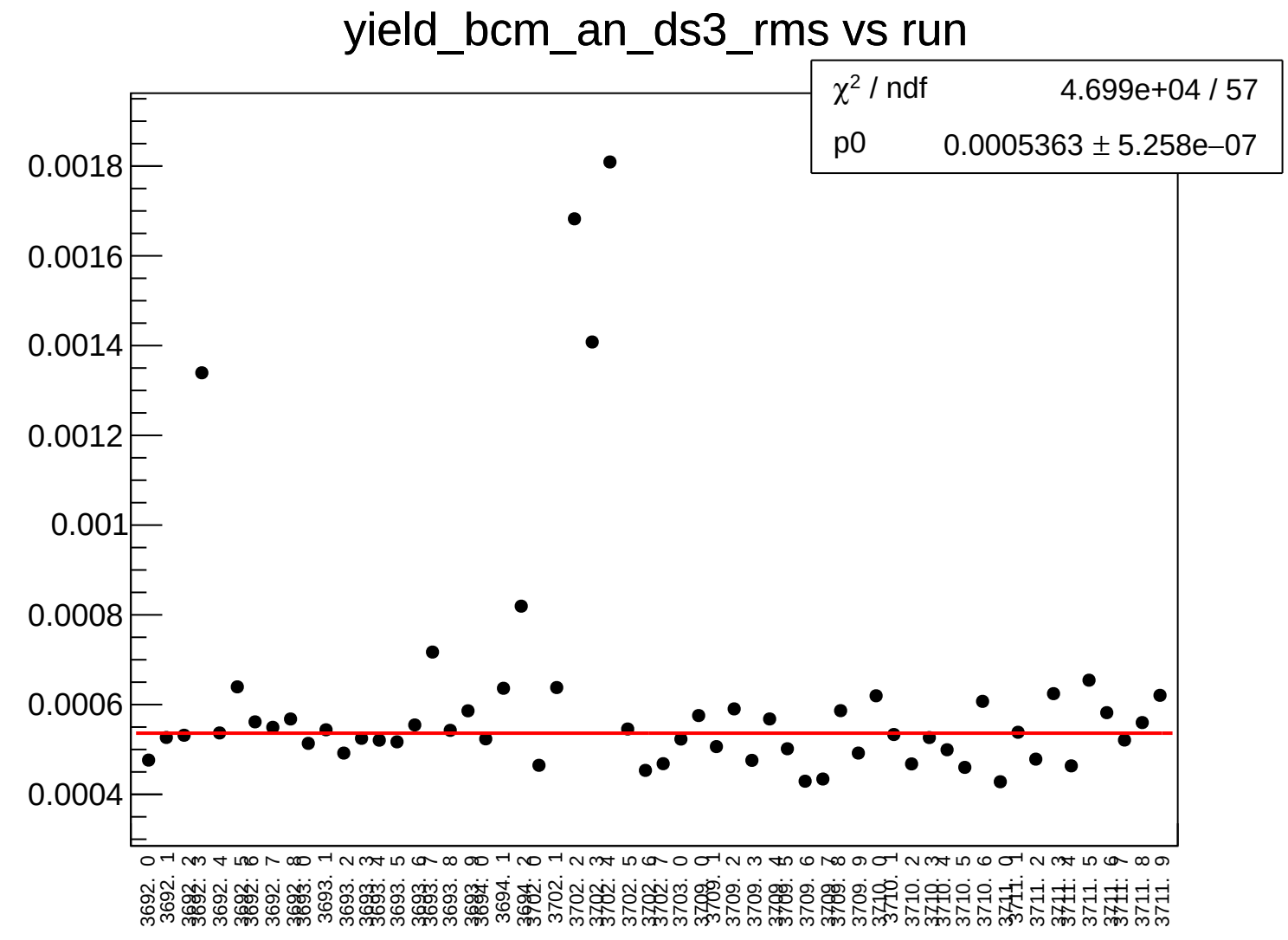

yield_bcm_an_ds_mean vs run
χ² / ndf 6.349e+05 / 57
p0 0.6692 ± 2.377e−06
0.674
0.672
0.67
0.668
0.666
pull
Entries 58
Mean −353.3
Std Dev 378
200
100
0
−100
−200

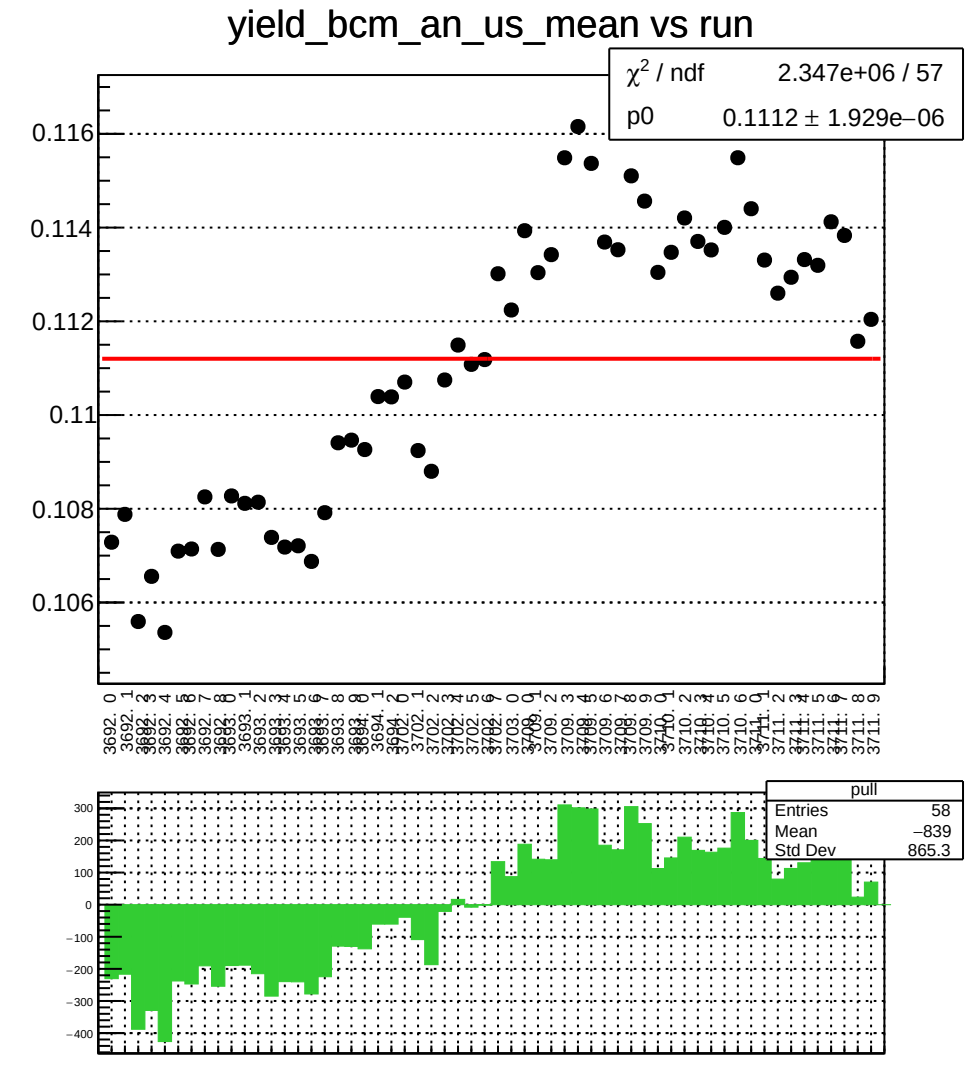

pull1D
Entries 58
Mean −0.949
Std Dev 2.18
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

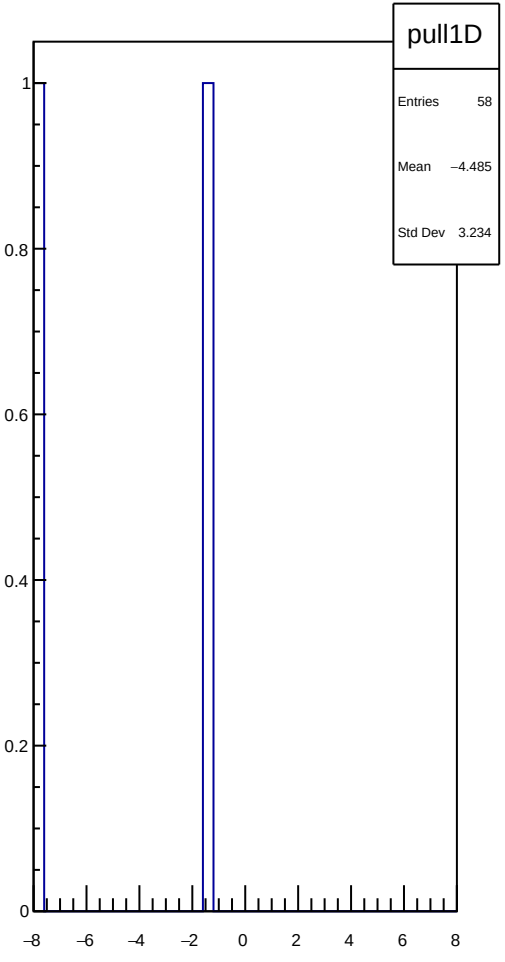

yield_bcm_an_ds_rms vs run
χ² / ndf 1.134e+04 / 57
p0 0.001743 ± 1.68e–06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

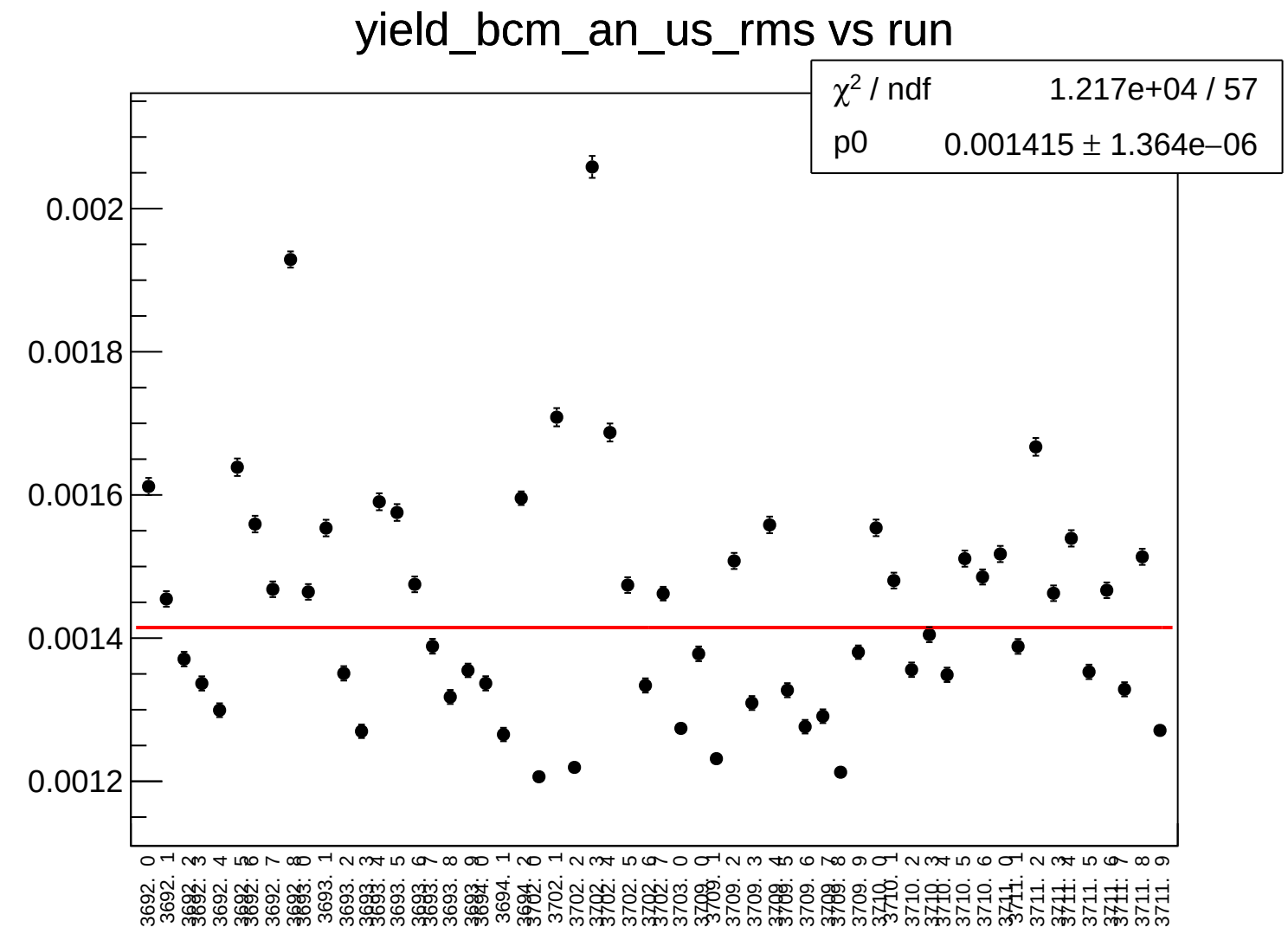

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.16e+07 / 57
p0 1.288 ± 7.435e−07
1.294
1.292
1.29
1.288
1.286
1.284
pull
Entries 58
Mean −738.9
Std Dev 769.5
1200
1000
800
600
400
200
0
−200
−400
−600
−800

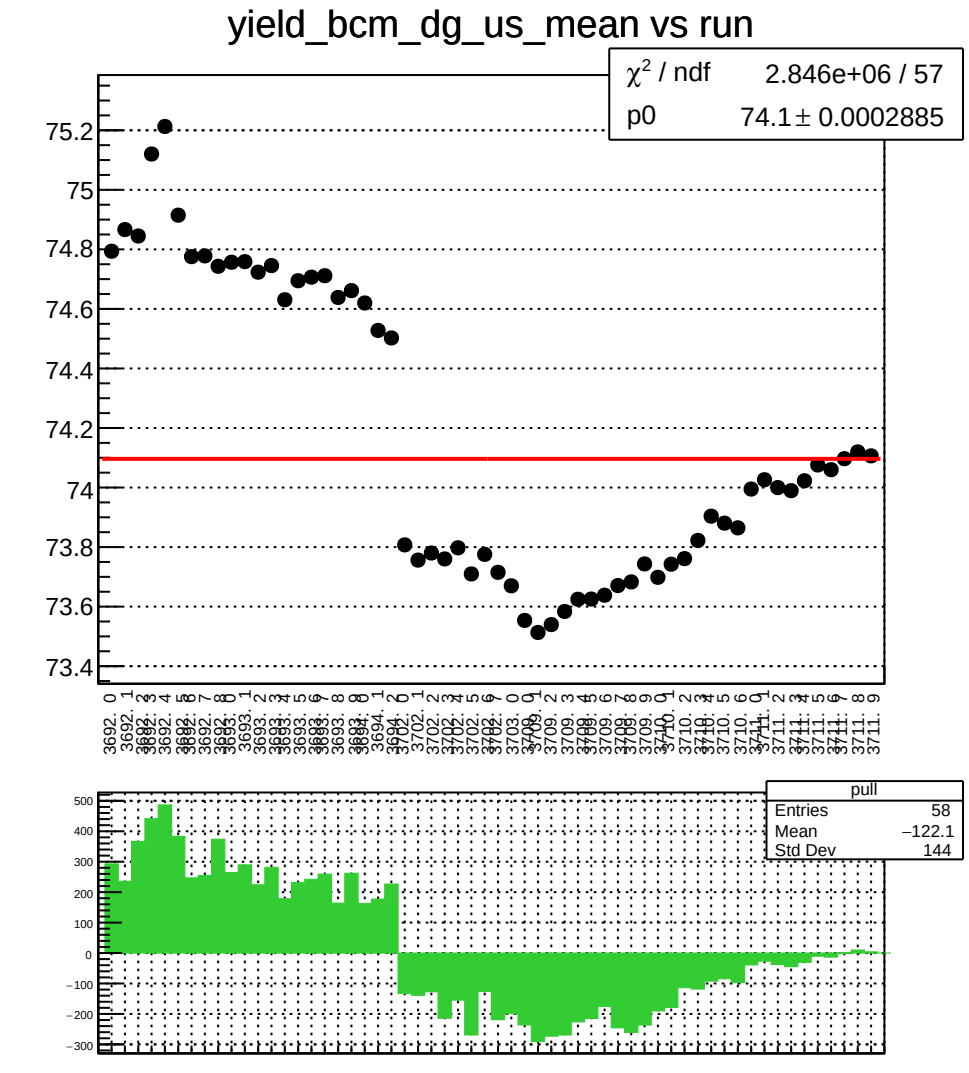

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

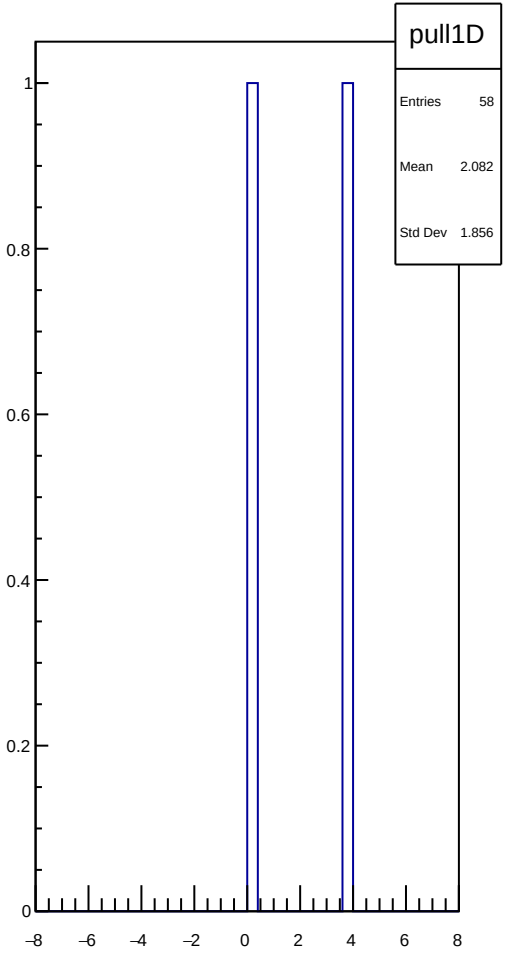

yield_bcm_an_ds3_rms vs run
χ² / ndf 4.699e+04 / 57
p0 0.0005363 ± 5.258e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

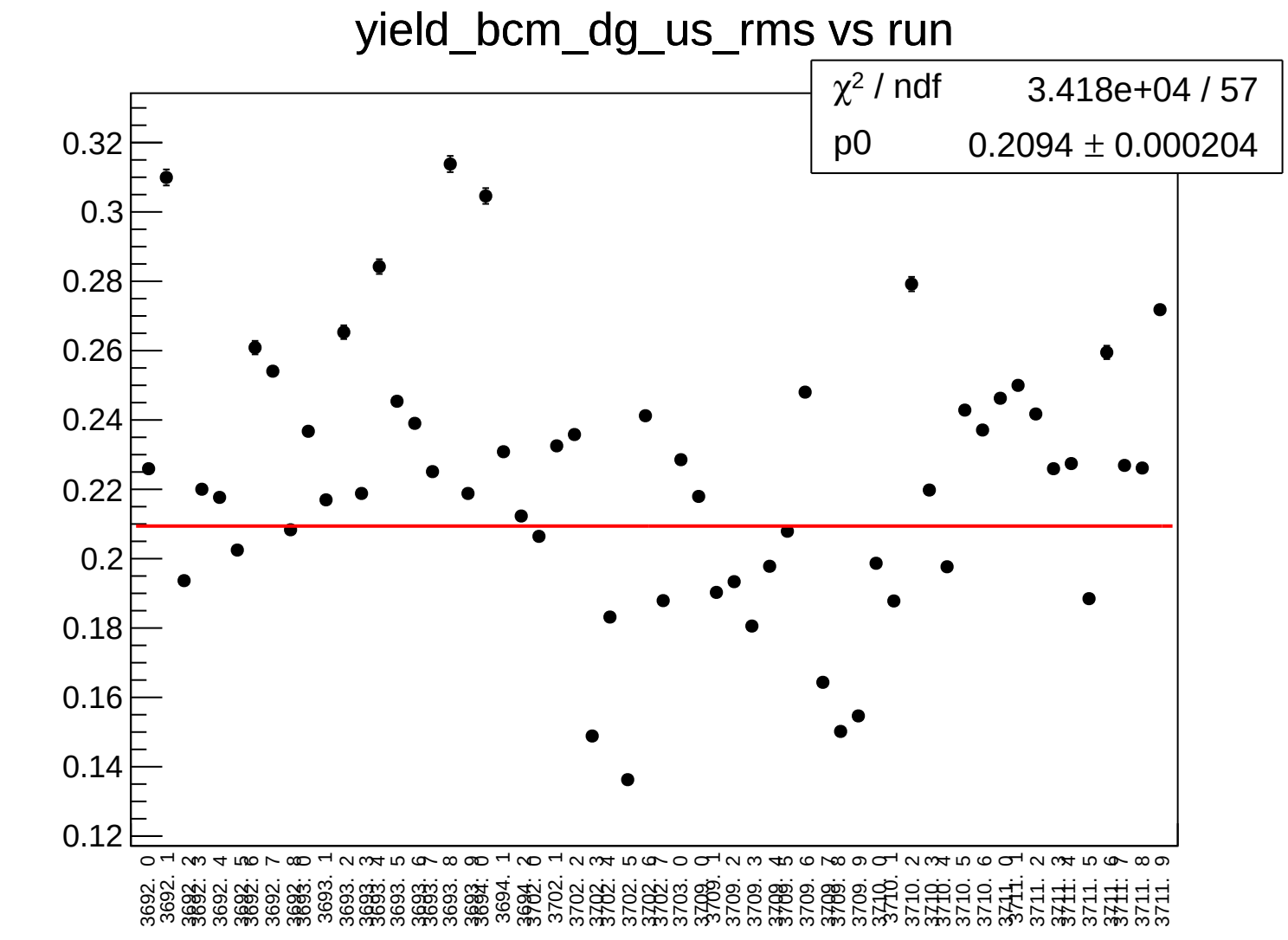

yield_bcm_an_us_mean vs run
χ² / ndf 2.347e+06 / 57
p0 0.1112 ± 1.929e−06
0.116
0.114
0.112
0.11
0.108
0.106
pull
Entries 58
Mean −839
Std Dev 865.3
300
200
100
0
−100
−200
−300
−400

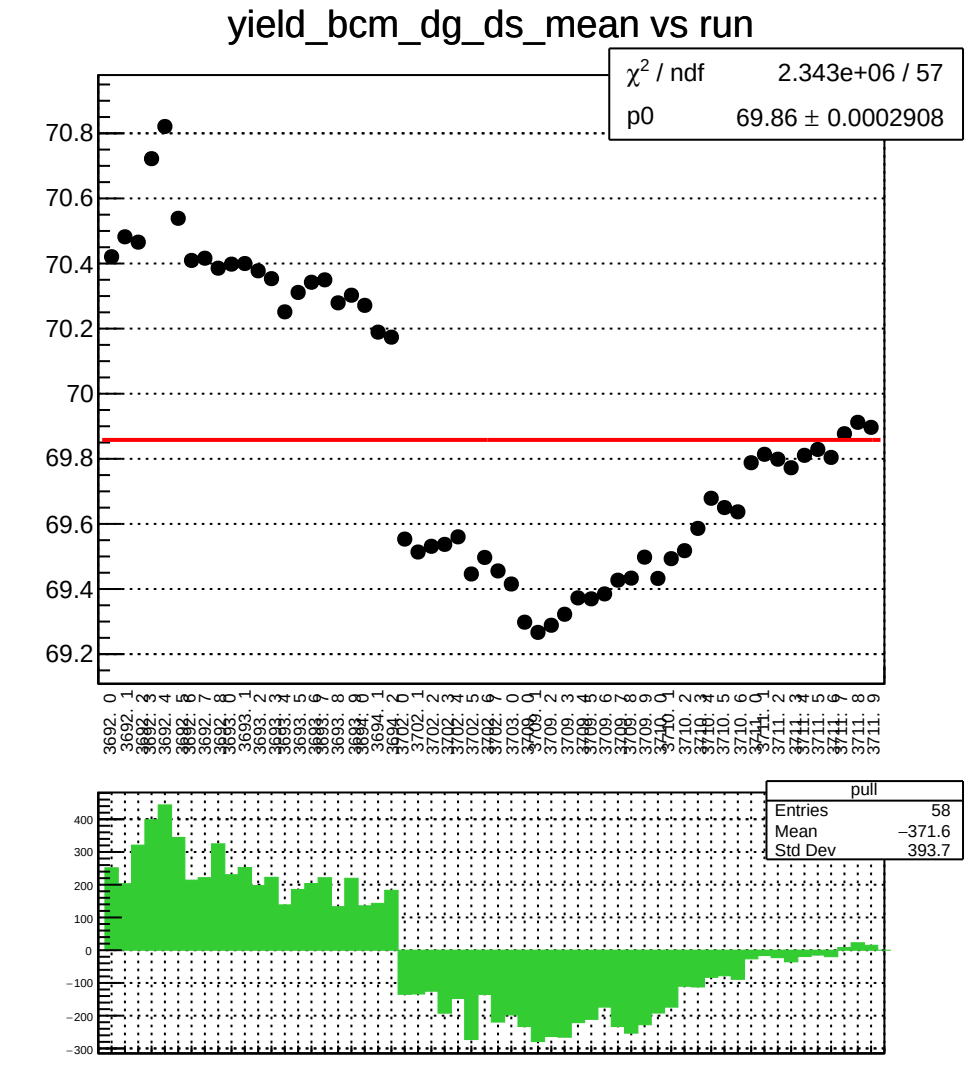

pull1D
Entries 58
Mean −4.485
Std Dev 3.234
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

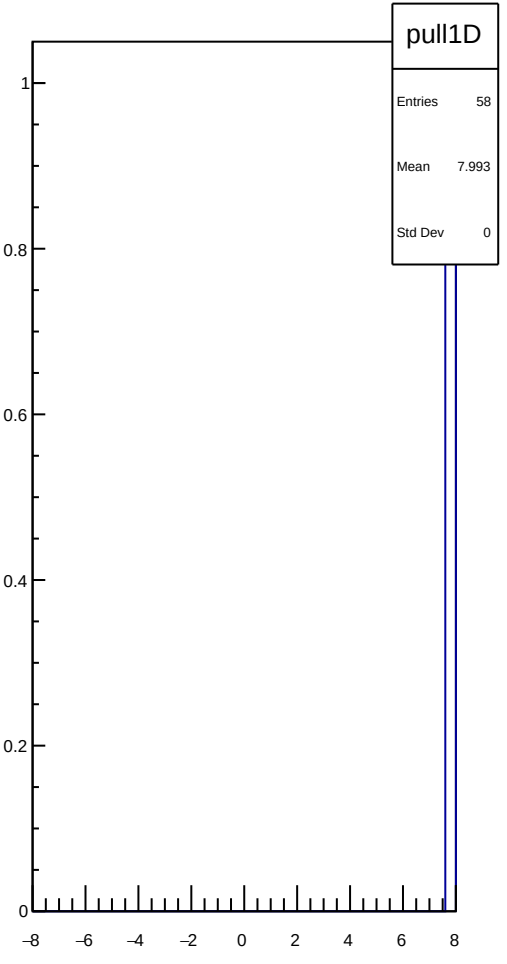

yield_bcm_an_us_rms vs run
χ² / ndf 1.217e+04 / 57
p0 0.001415 ± 1.364e−06
0.002
0.0018
0.0016
0.0014
0.0012

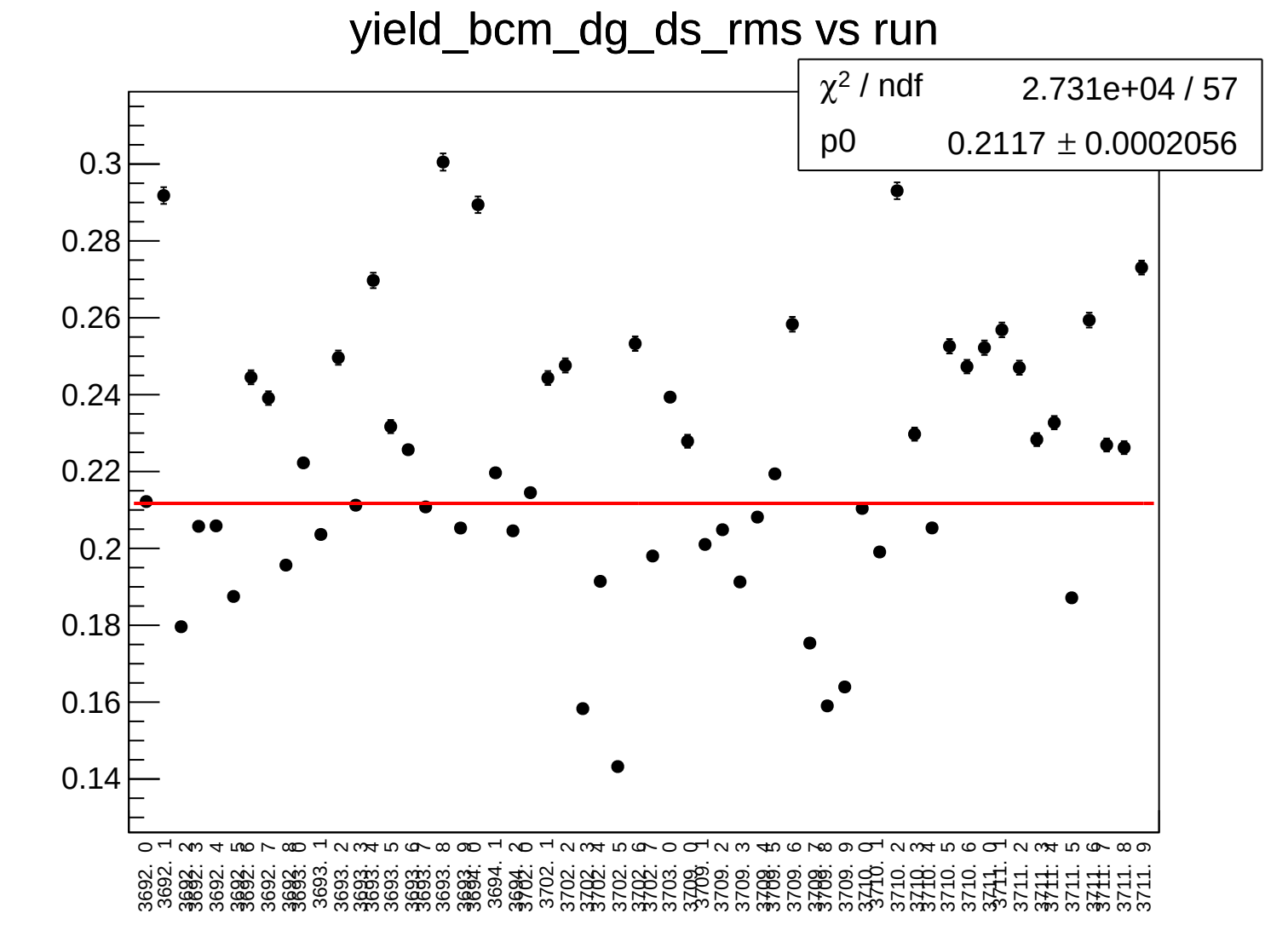

yield_bcm_dg_us_mean vs run
χ² / ndf 2.846e+06 / 57
p0 74.1 ± 0.0002885
75.2
75
74.8
74.6
74.4
74.2
74
73.8
73.6
73.4
pull
Entries 58
Mean −122.1
Std Dev 144
500
400
300
200
100
0
−100
−200
−300

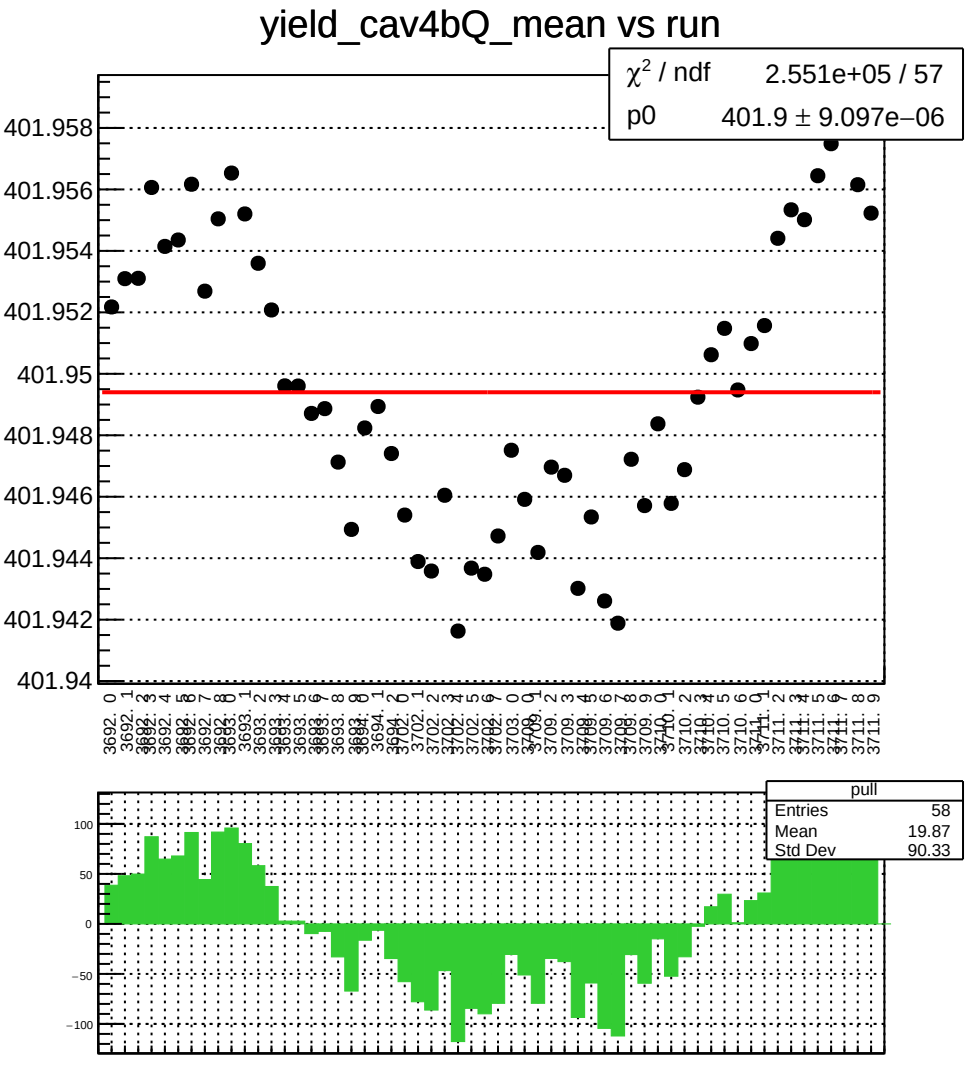

pull1D
Entries 58
Mean 2.082
Std Dev 1.856
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

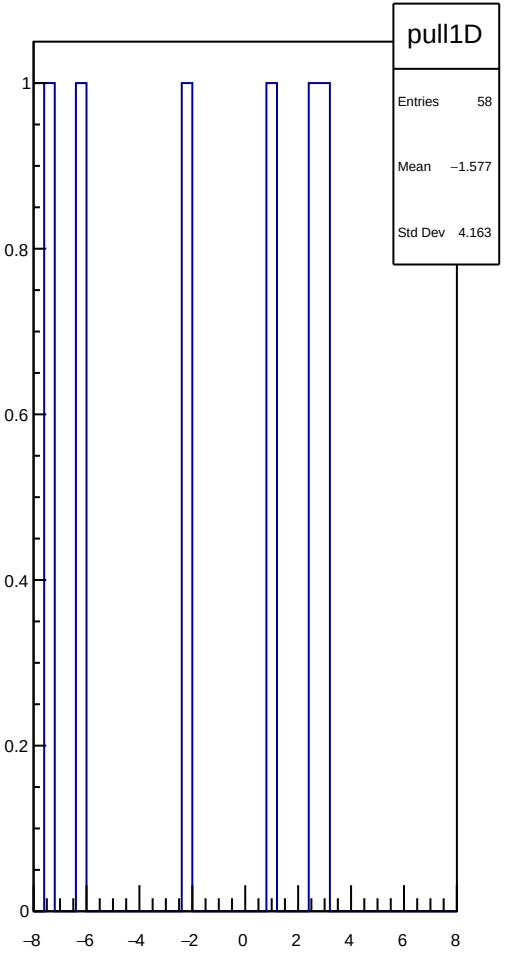

yield_bcm_dg_us_rms vs run
χ² / ndf 3.418e+04 / 57
p0 0.2094 ± 0.000204
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12

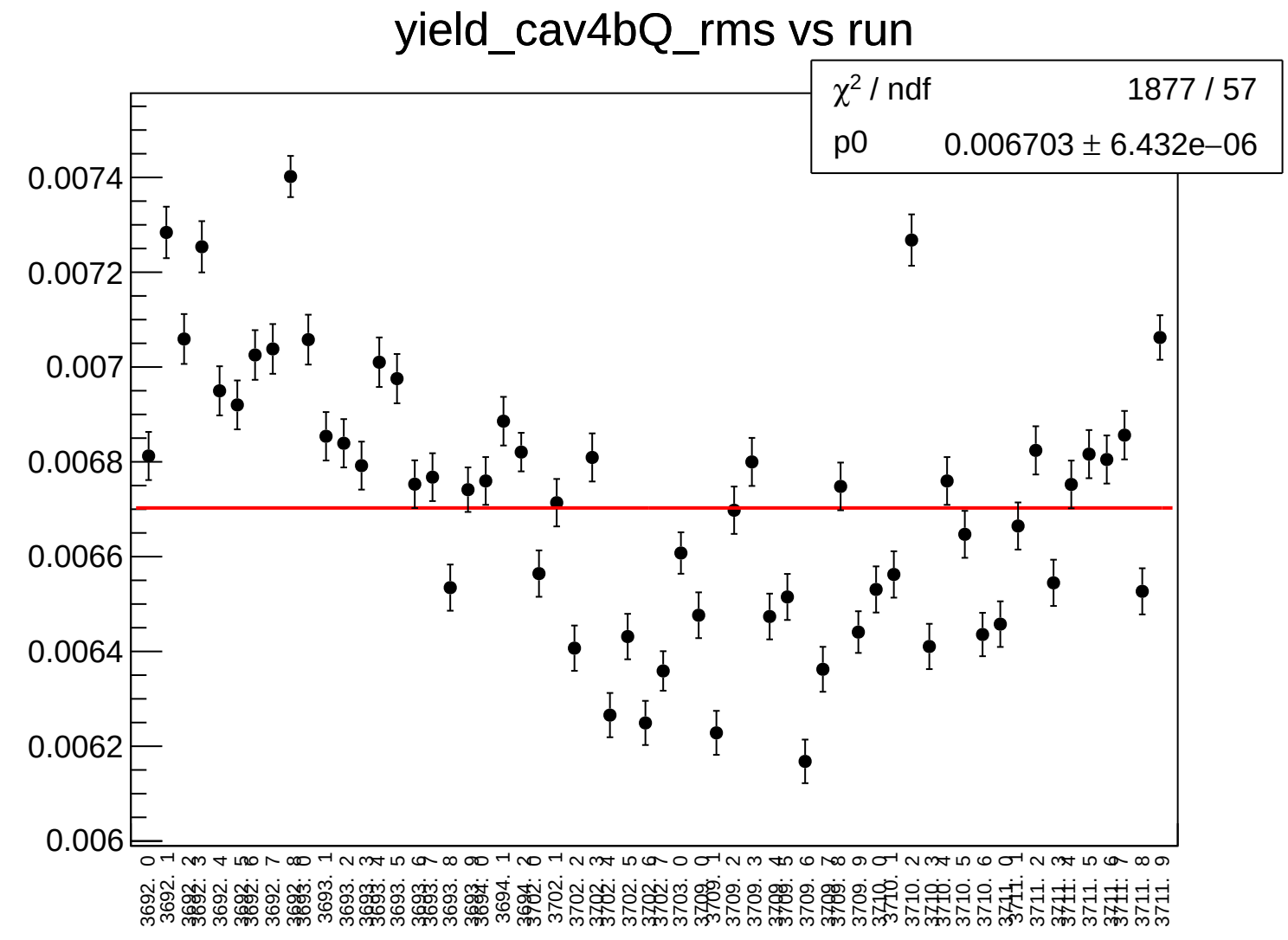

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.343e+06 / 57
p0 69.86 ± 0.0002908
70.8
70.6
70.4
70.2
70
69.8
69.6
69.4
69.2
pull
Entries 58
Mean −371.6
Std Dev 393.7
400
300
200
100
0
−100
−200
−300

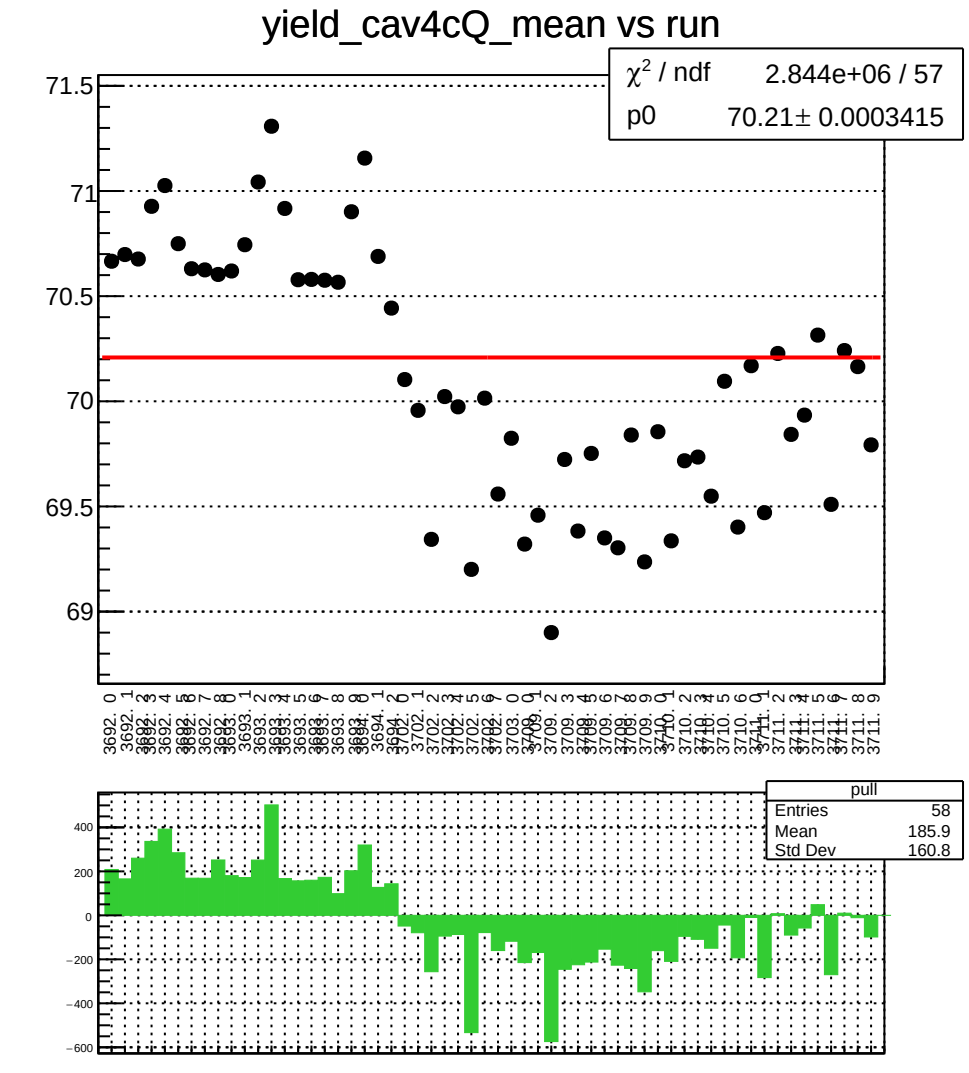

pull1D
Entries 58
Mean 7.993
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

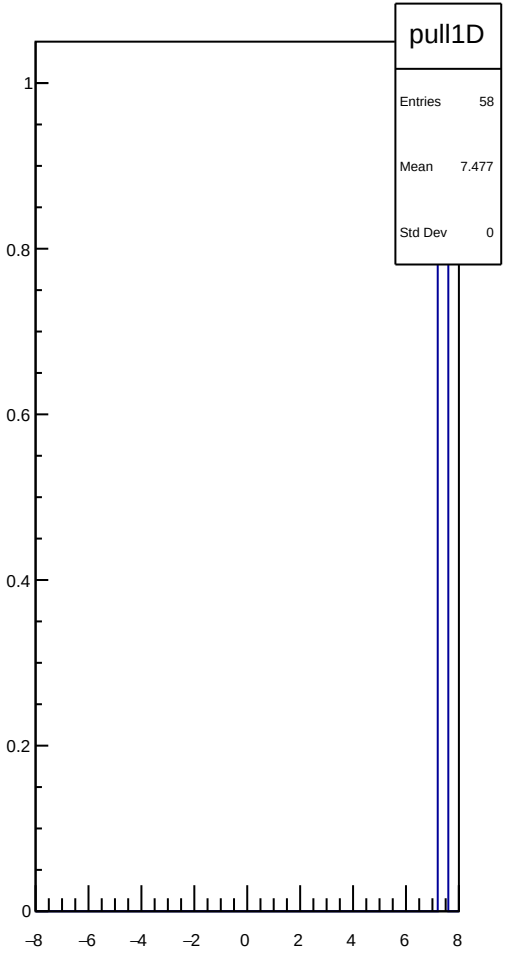

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.731e+04 / 57
p0 0.2117 ± 0.0002056
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14

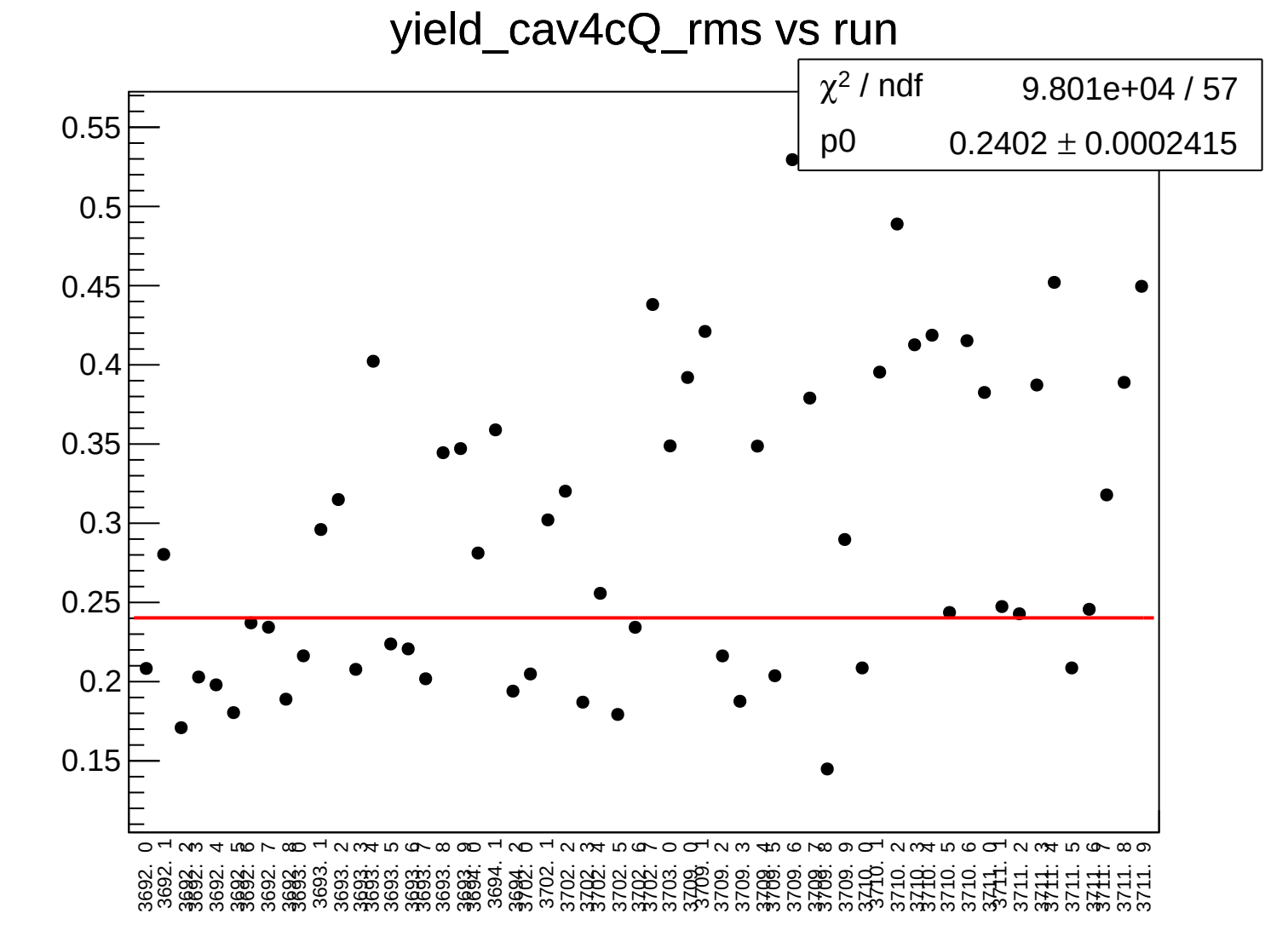

yield_cav4bQ_mean vs run
χ² / ndf 2.551e+05 / 57
p0 401.9 ± 9.097e−06
401.958
401.956
401.954
401.952
401.95
401.948
401.946
401.944
401.942
401.94
pull
Entries 58
Mean 19.87
Std Dev 90.33
100
50
0
−50
−100

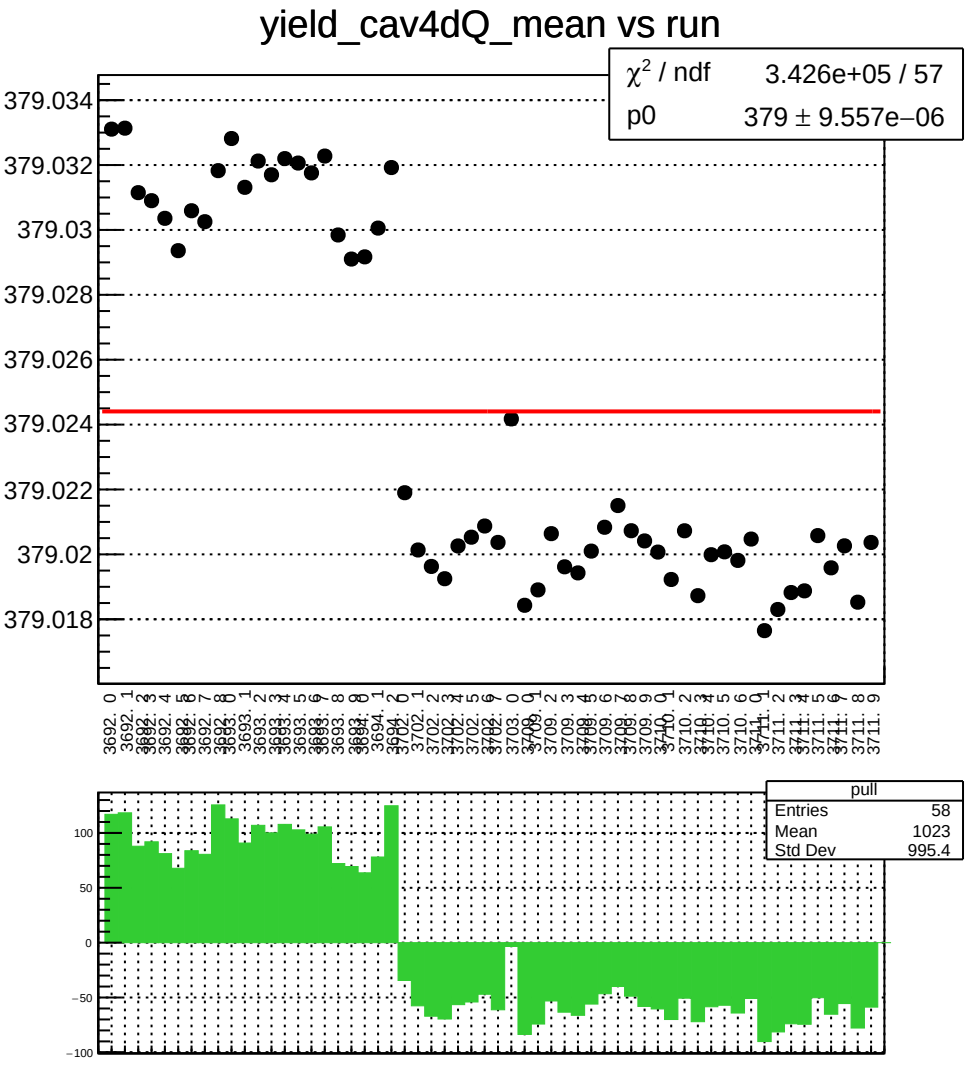

pull1D
Entries 58
Mean −1.577
Std Dev 4.163
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

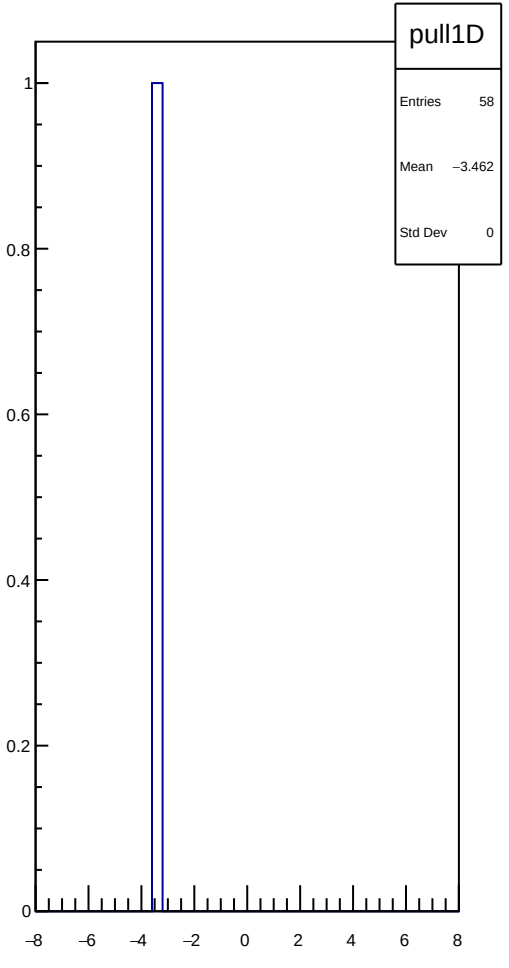

yield_cav4bQ_rms vs run
χ² / ndf 1877 / 57
p0 0.006703 ± 6.432e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

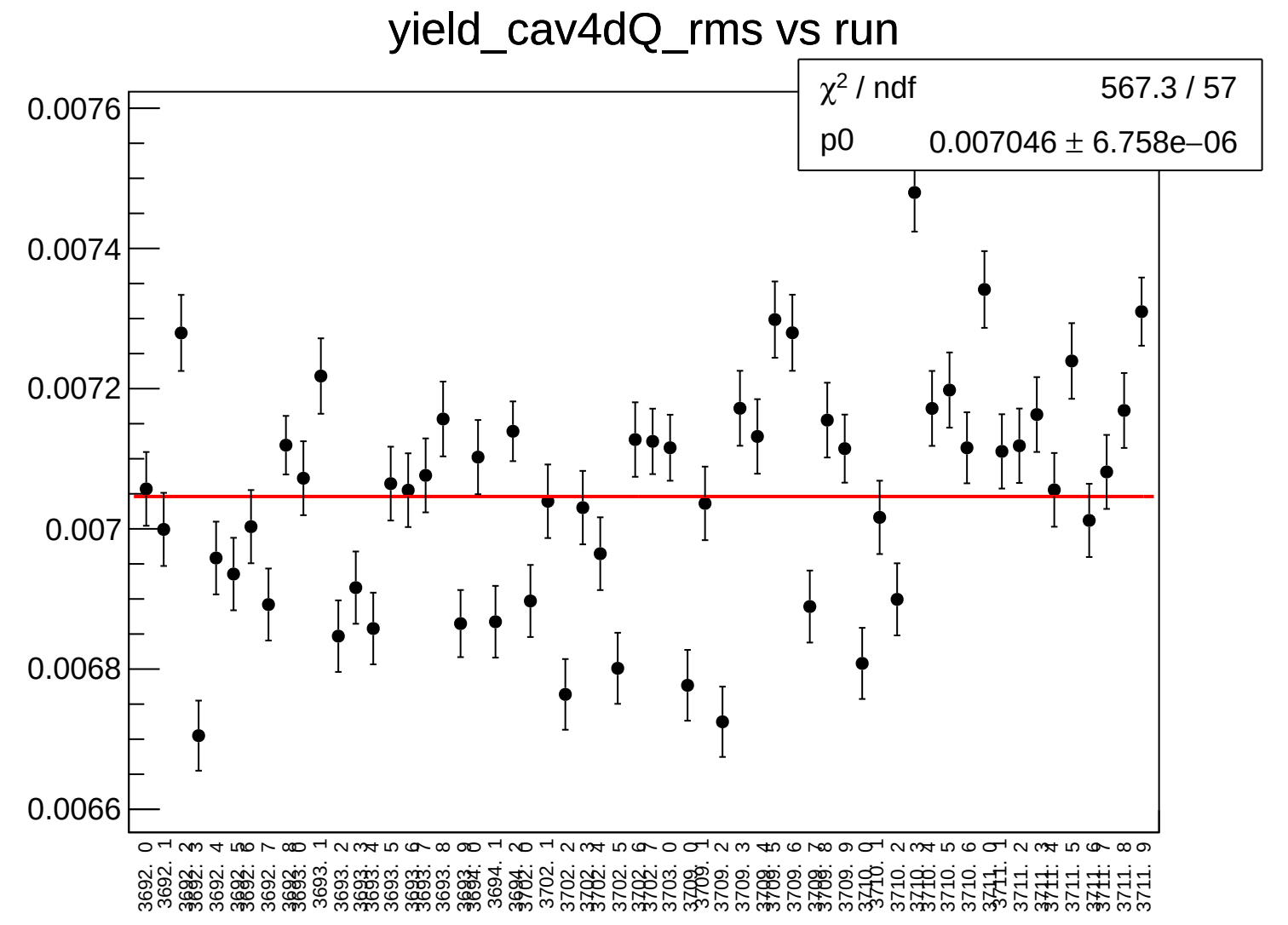

yield_cav4cQ_mean vs run
χ² / ndf 2.844e+06 / 57
p0 70.21± 0.0003415
71.5
71
70.5
70
69.5
69
pull
Entries 58
Mean 185.9
Std Dev 160.8
400
200
0
−200
−400
−600

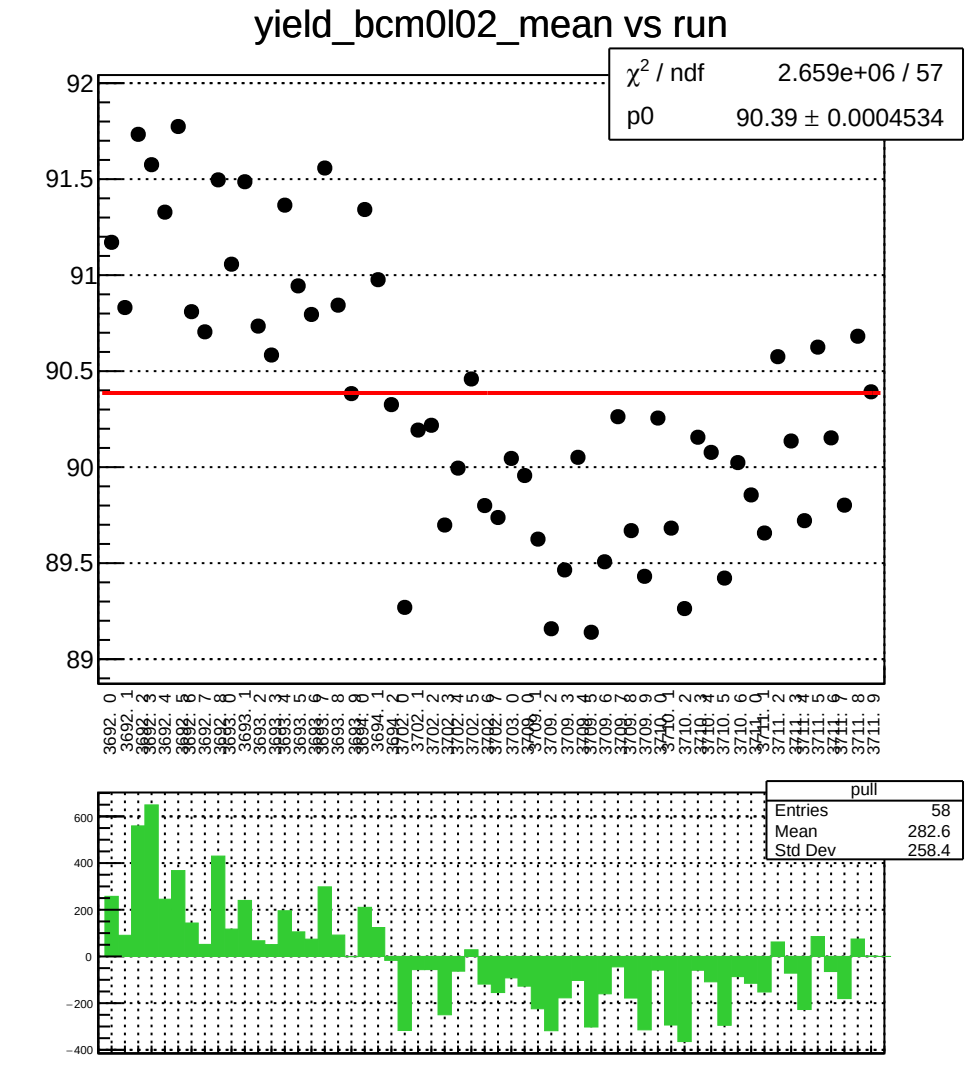

pull1D
Entries 58
Mean 7.477
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

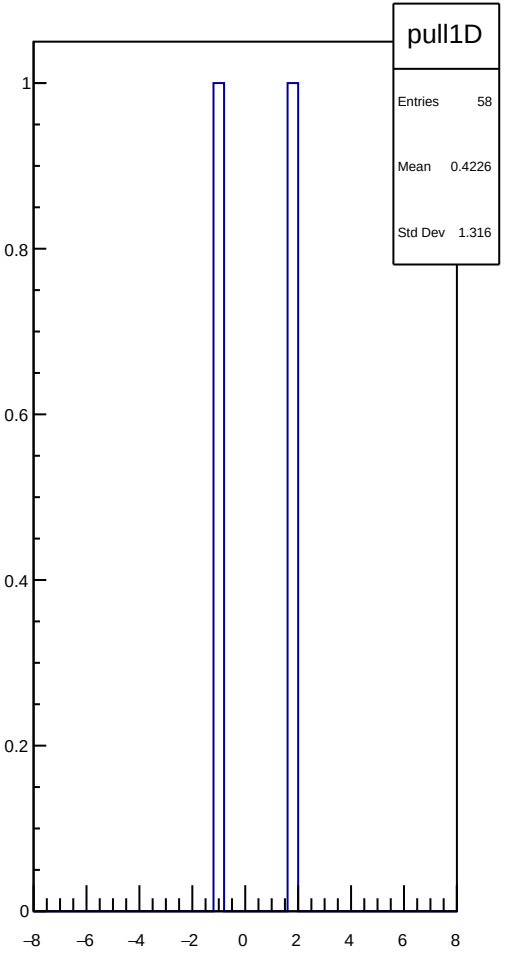

yield_cav4cQ_rms vs run
χ² / ndf 9.801e+04 / 57
p0 0.2402 ± 0.0002415
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

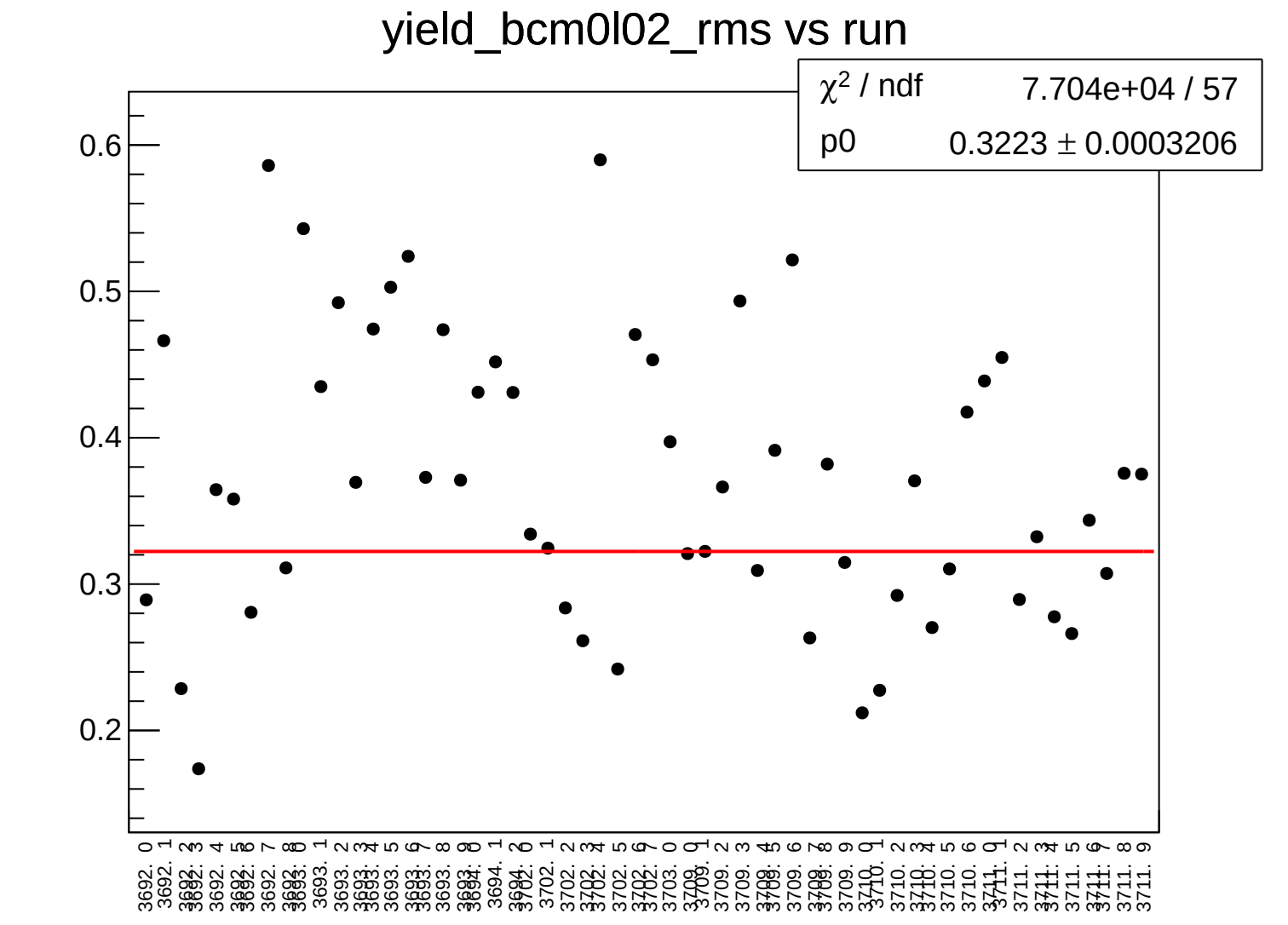

yield_cav4dQ_mean vs run
χ² / ndf 3.426e+05 / 57
p0 379 ± 9.557e−06
379.034
379.032
379.03
379.028
379.026
379.024
379.022
379.02
379.018
pull
Entries 58
Mean 1023
Std Dev 995.4
100
50
0
−50
−100

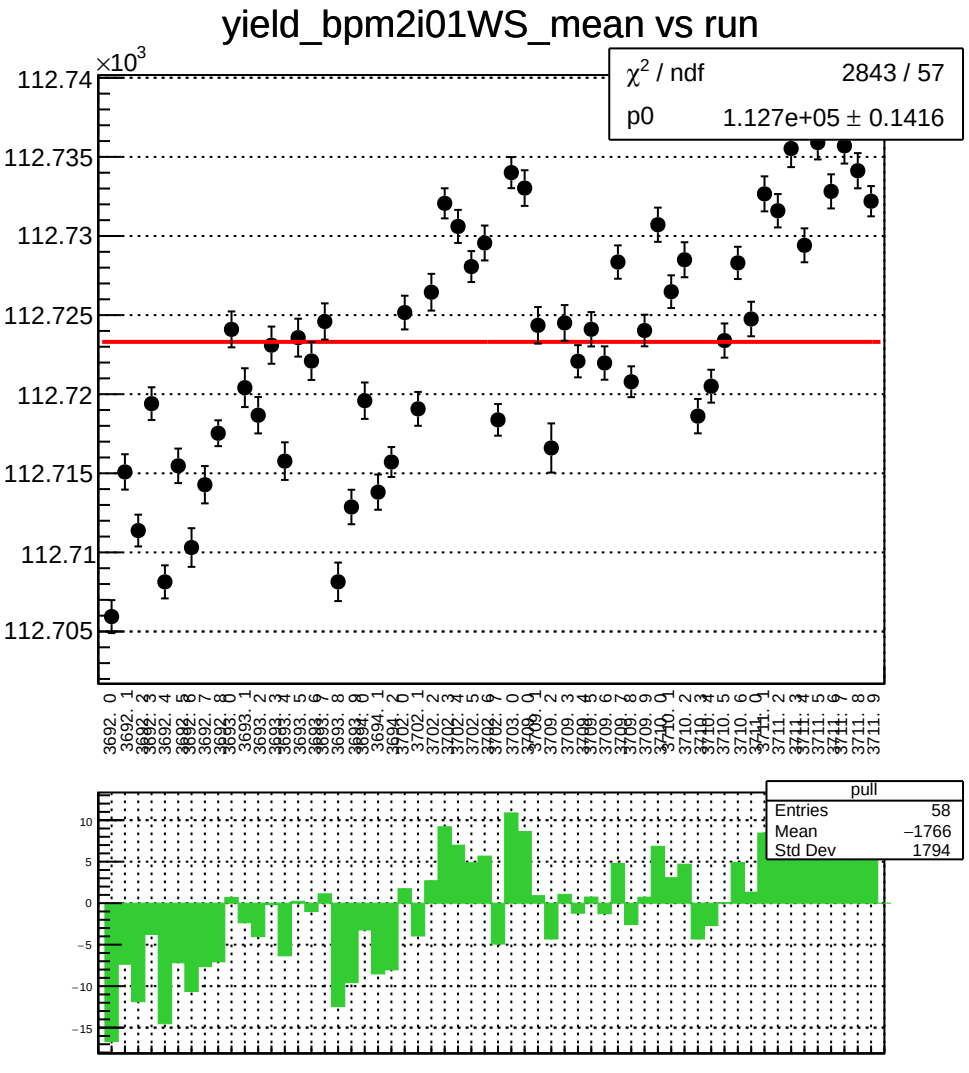

pull1D
Entries 58
Mean −3.462
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

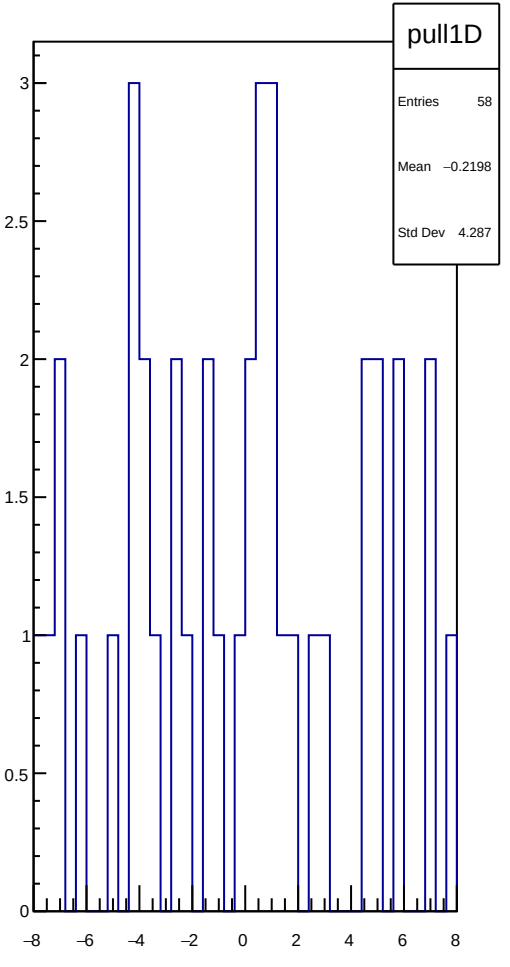

yield_cav4dQ_rms vs run
χ² / ndf 567.3 / 57
p0 0.007046 ± 6.758e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066

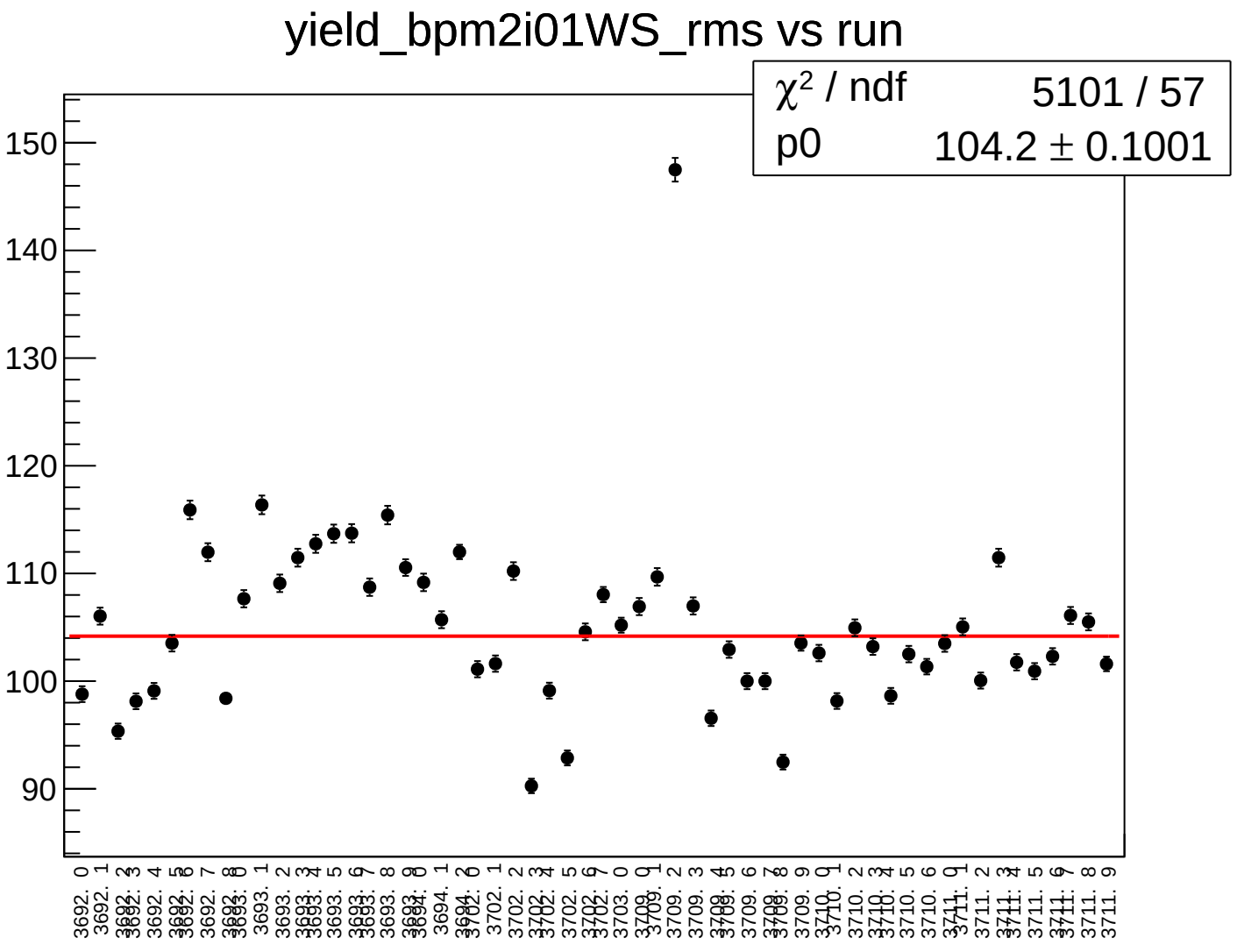

yield_bcm0l02_mean vs run
χ² / ndf 2.659e+06 / 57
p0 90.39 ± 0.0004534
pull
Entries 58
Mean 282.6
Std Dev 258.4

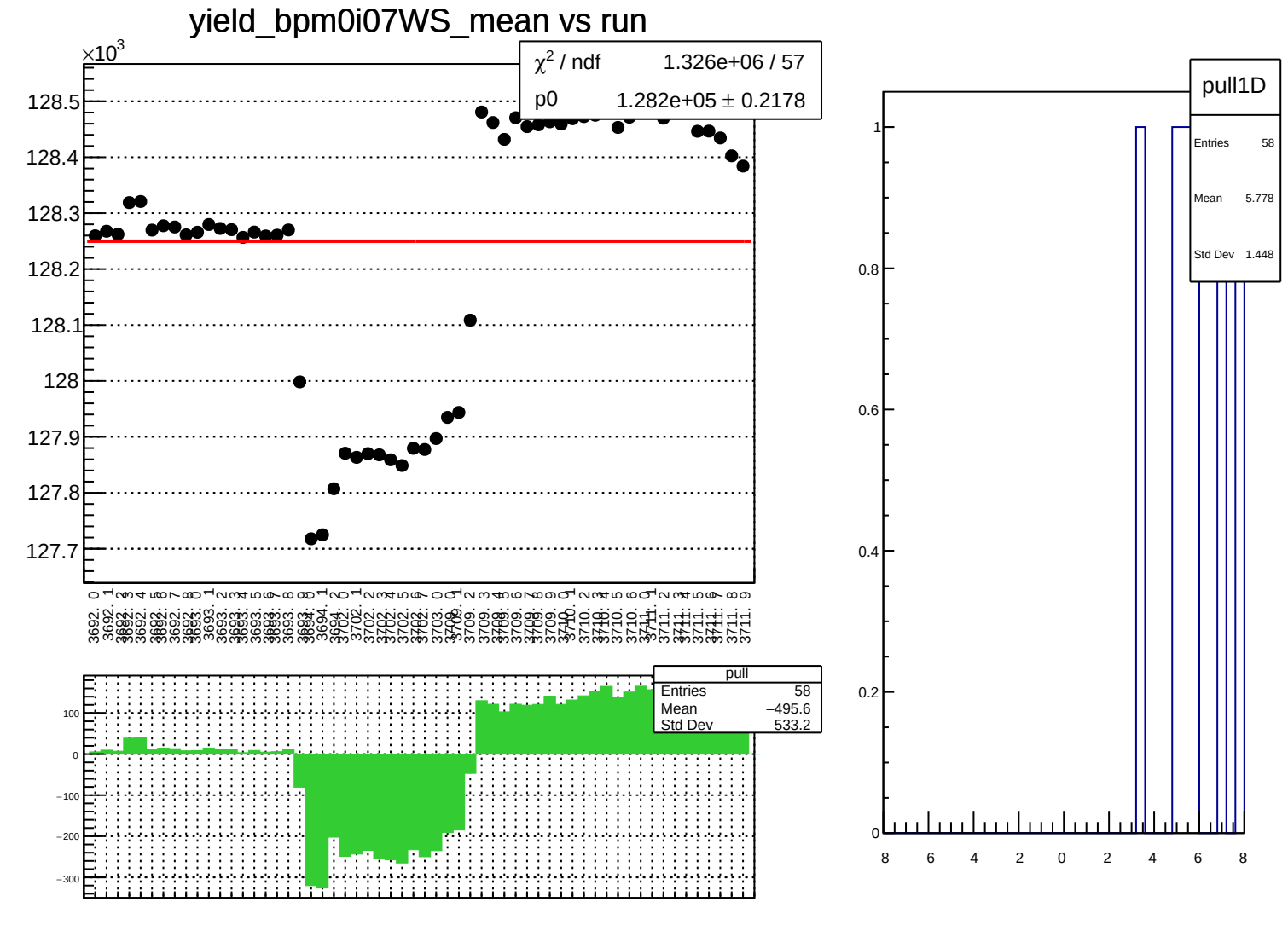

pull1D
Entries 58
Mean 0.4226
Std Dev 1.316

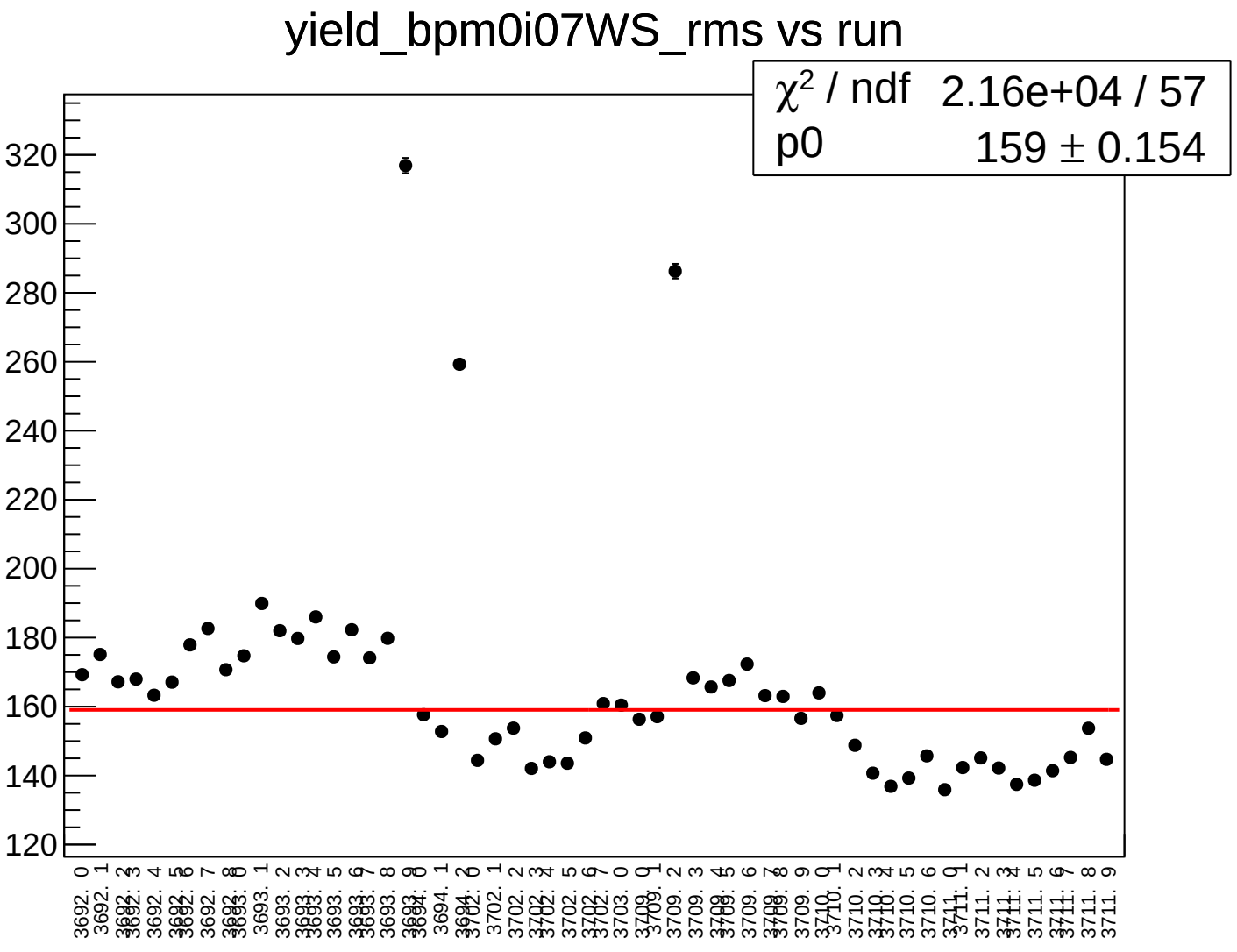

yield_bcm0l02_rms vs run
χ² / ndf 7.704e+04 / 57
p0 0.3223 ± 0.0003206
0.6
0.5
0.4
0.3
0.2

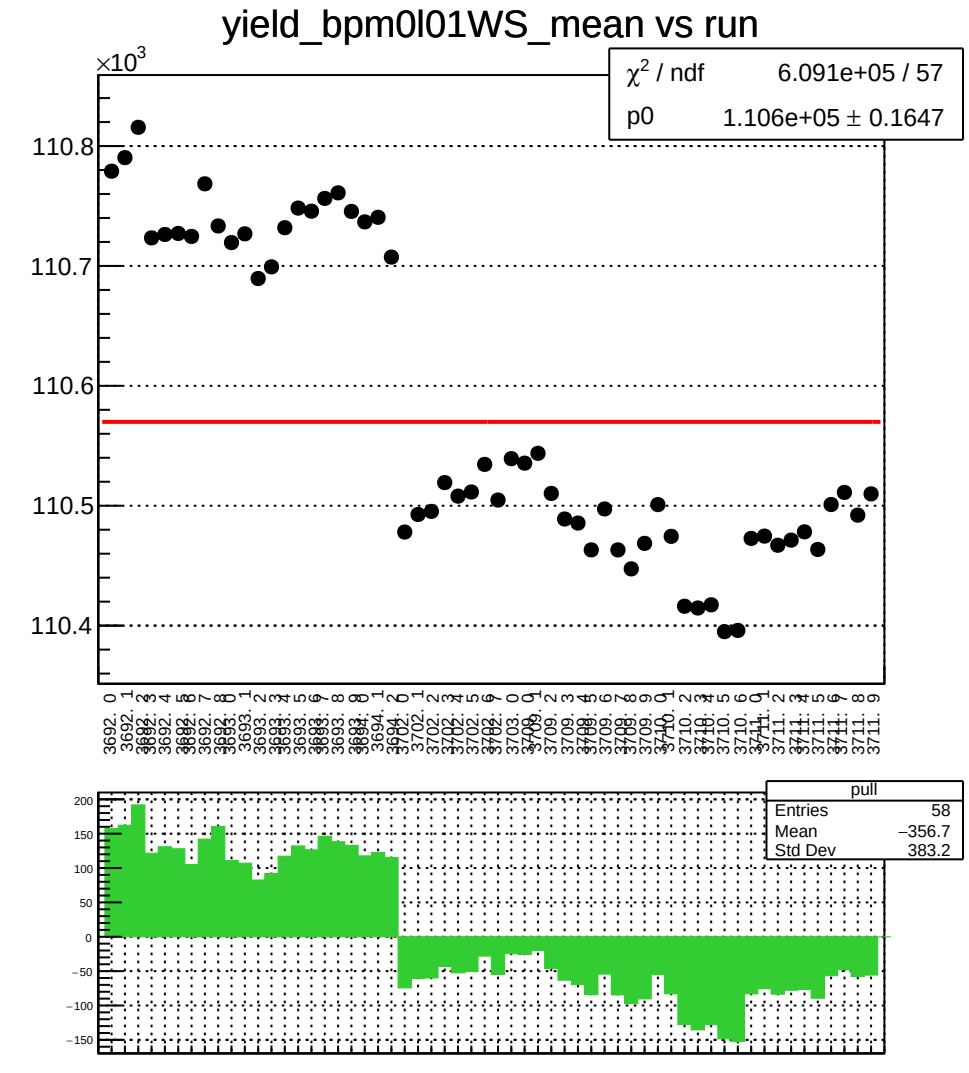

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2843 / 57
p0 1.127e+05 ± 0.1416
112.74
112.735
112.73
112.725
112.72
112.715
112.71
112.705
pull
Entries 58
Mean −1766
Std Dev 1794
10
5
0
−5
−10
−15

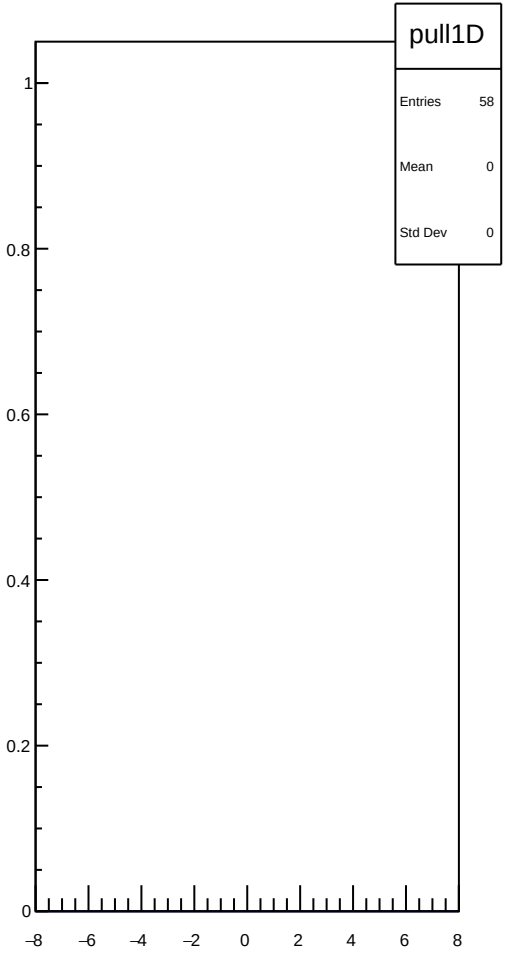

pull1D
Entries 58
Mean −0.2198
Std Dev 4.287
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

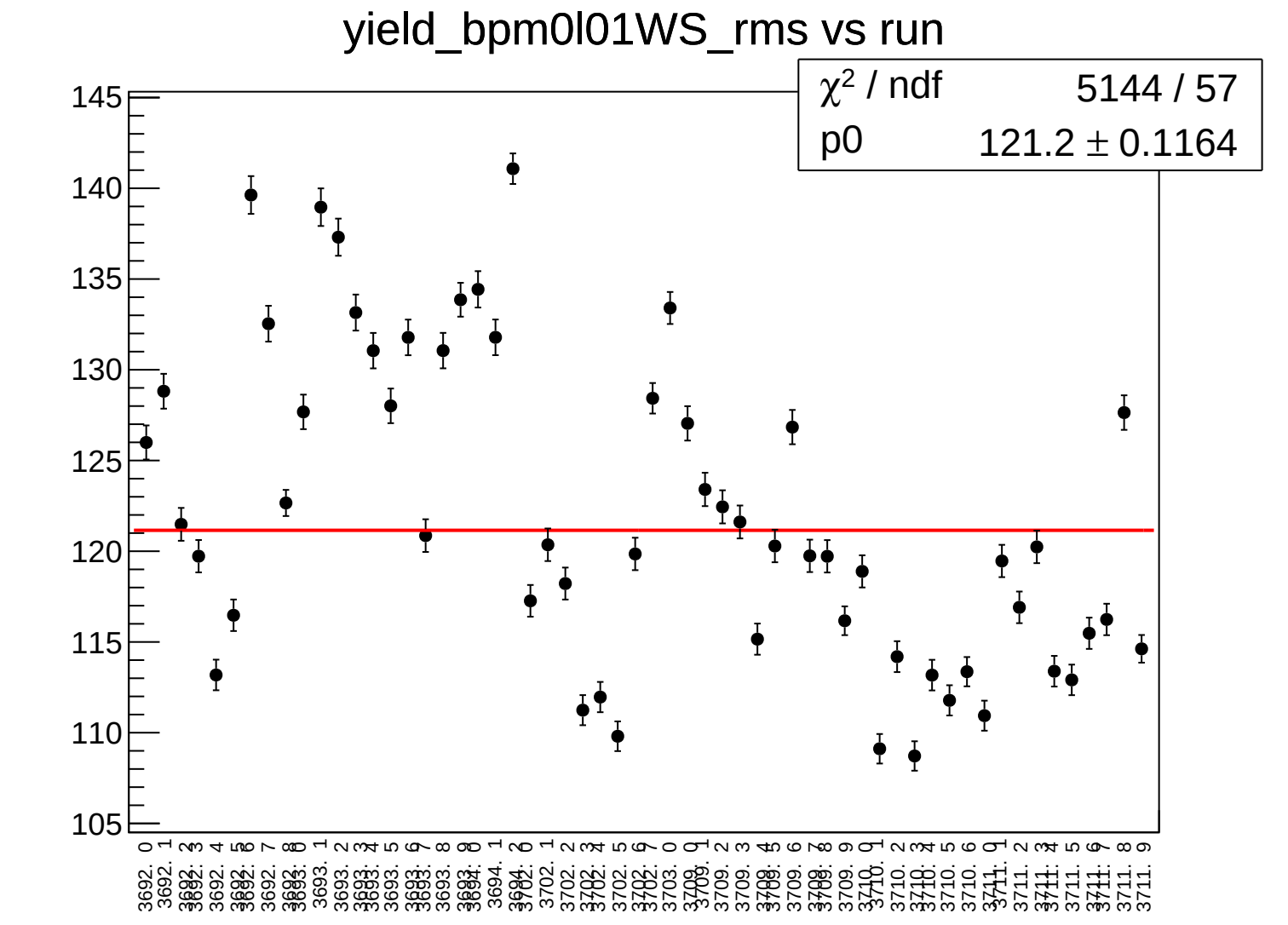

yield_bpm2i01WS_rms vs run
χ² / ndf 5101 / 57
p0 104.2 ± 0.1001
150
140
130
120
110
100
90

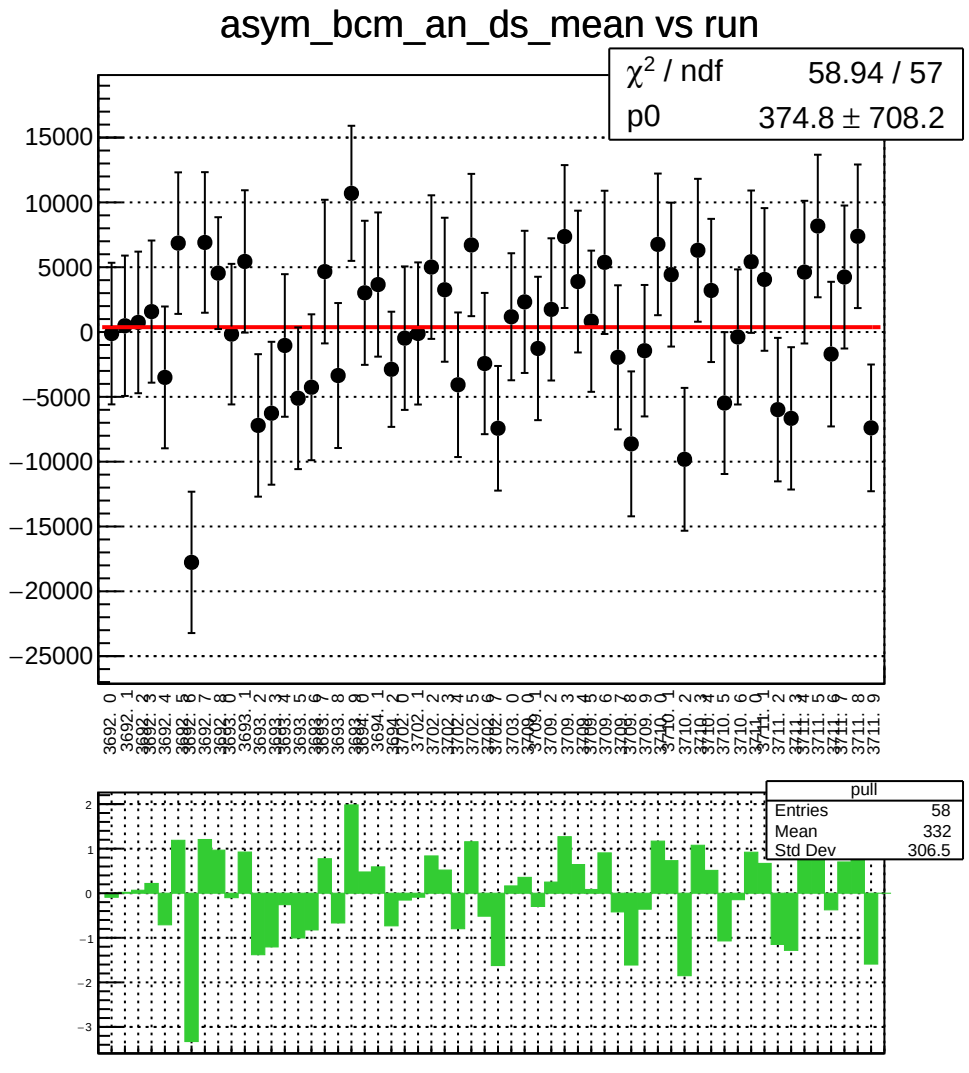

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.326e+06 / 57
p0 1.282e+05 ± 0.2178
128.5
128.4
128.3
128.2
128.1
128
127.9
127.8
127.7
pull
Entries 58
Mean −495.6
Std Dev 533.2
100
0
−100
−200
−300
pull1D
Entries 58
Mean 5.778
Std Dev 1.448
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

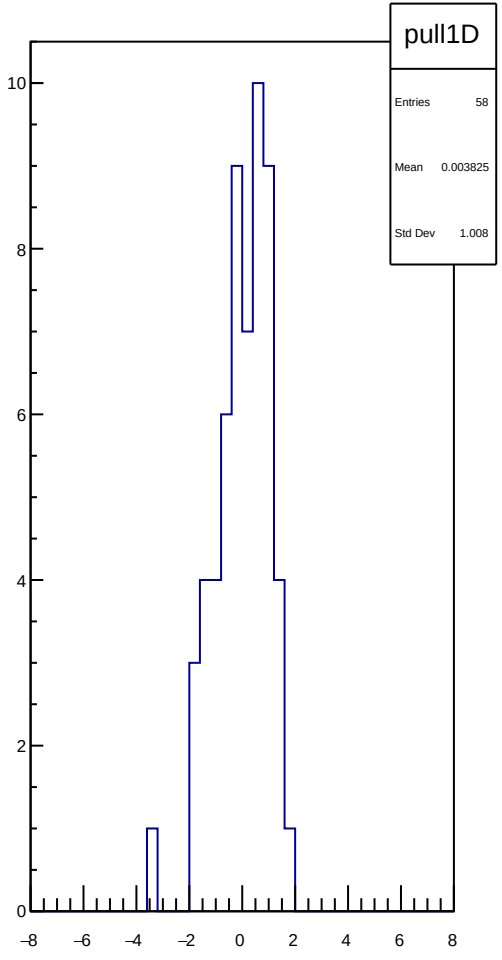

yield_bpm0i07WS_rms vs run
χ² / ndf 2.16e+04 / 57
p0 159 ± 0.154
320
300
280
260
240
220
200
180
160
140
120

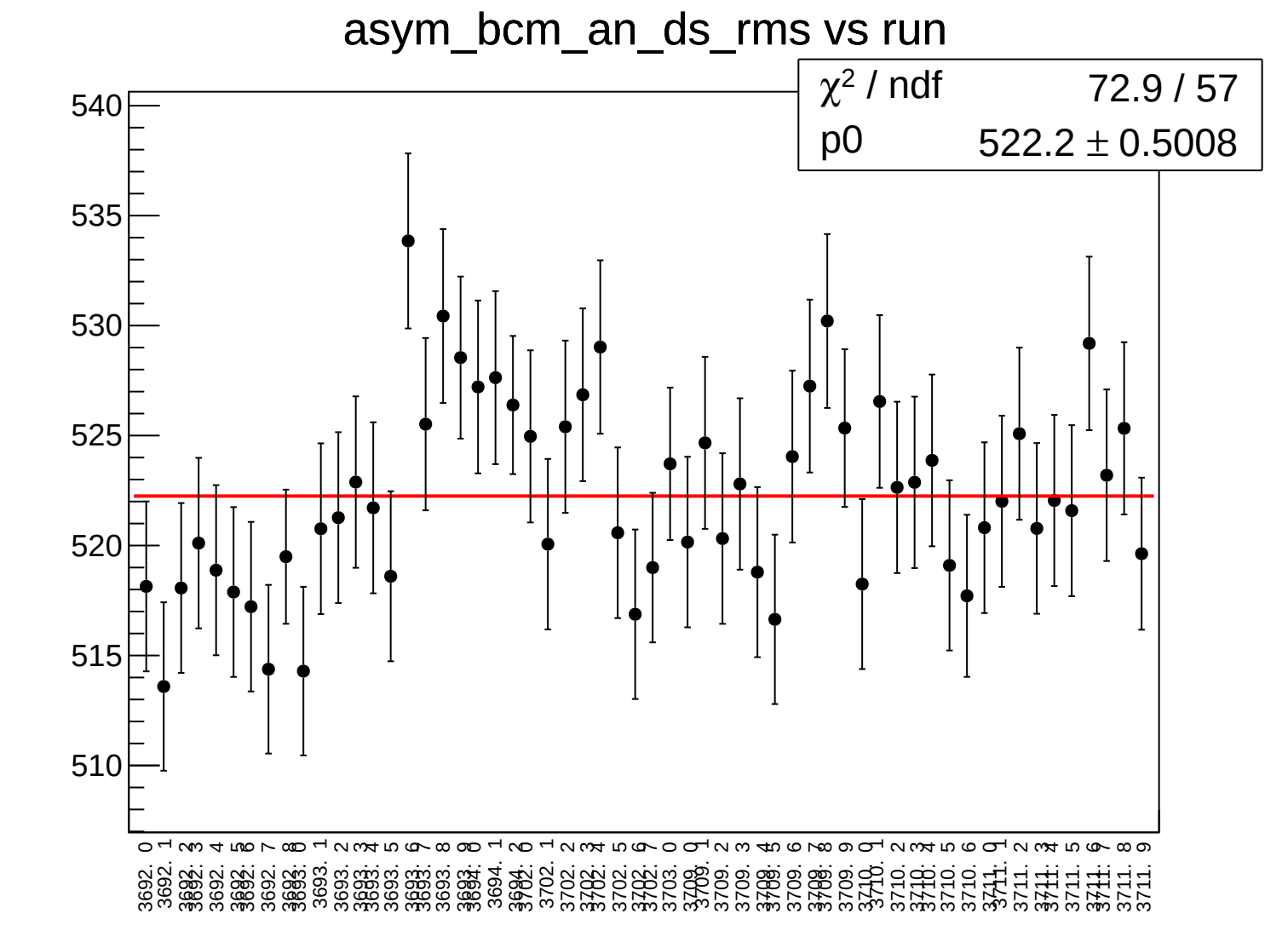

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.091e+05 / 57
p0 1.106e+05 ± 0.1647
110.8
110.7
110.6
110.5
110.4
pull
Entries 58
Mean −356.7
Std Dev 383.2
200
150
100
50
0
−50
−100
−150

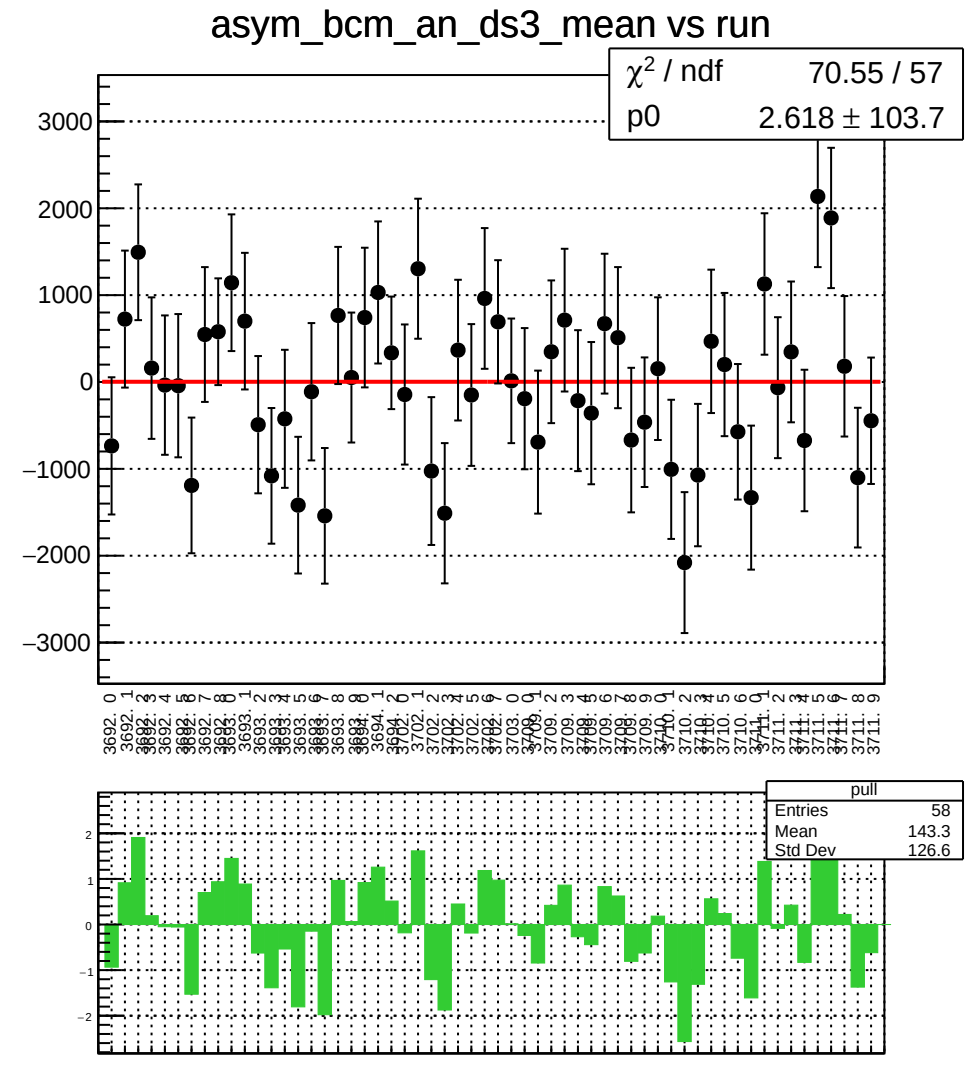

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

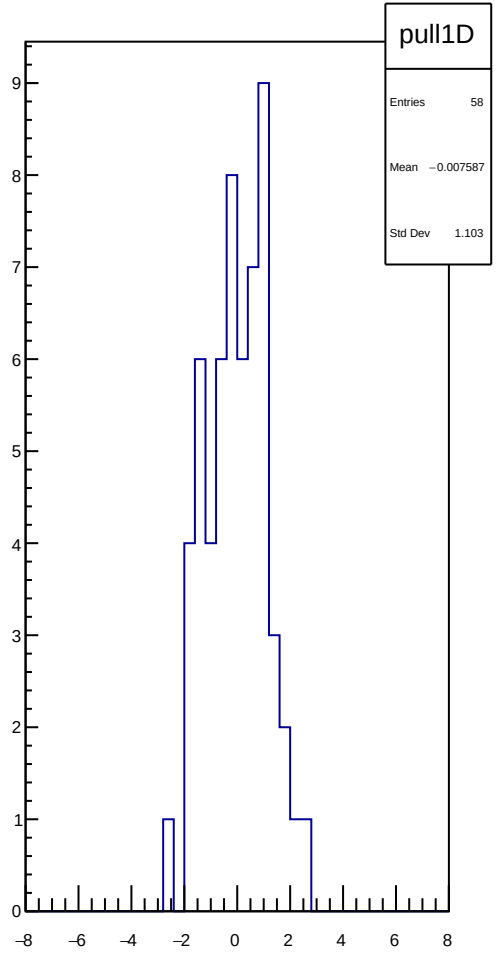

yield_bpm0l01WS_rms vs run
χ² / ndf 5144 / 57
p0 121.2 ± 0.1164
145
140
135
130
125
120
115
110
105

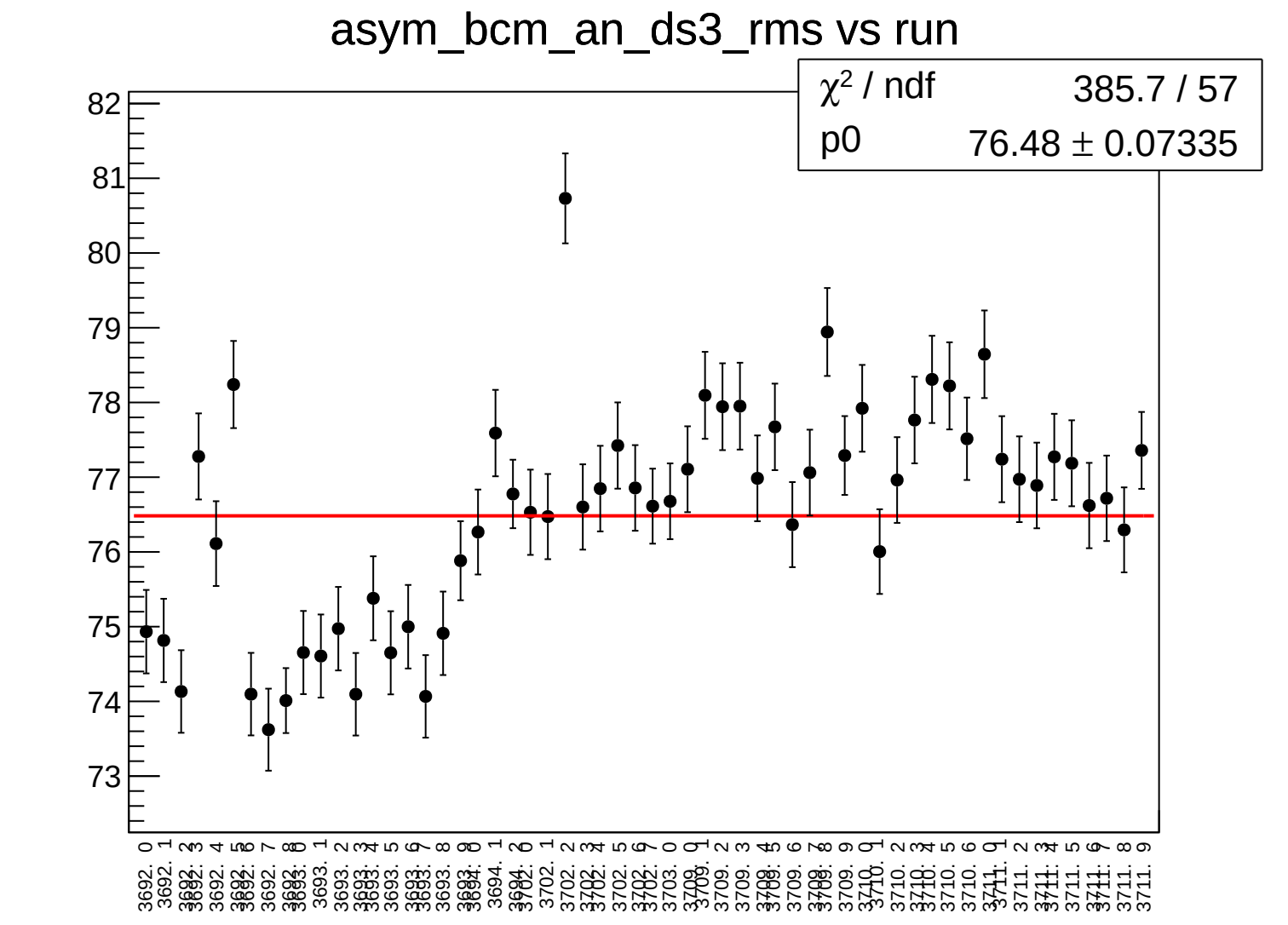

asym_bcm_an_ds_mean vs run
χ² / ndf 58.94 / 57
p0 374.8 ± 708.2
pull
Entries 58
Mean 332
Std Dev 306.5

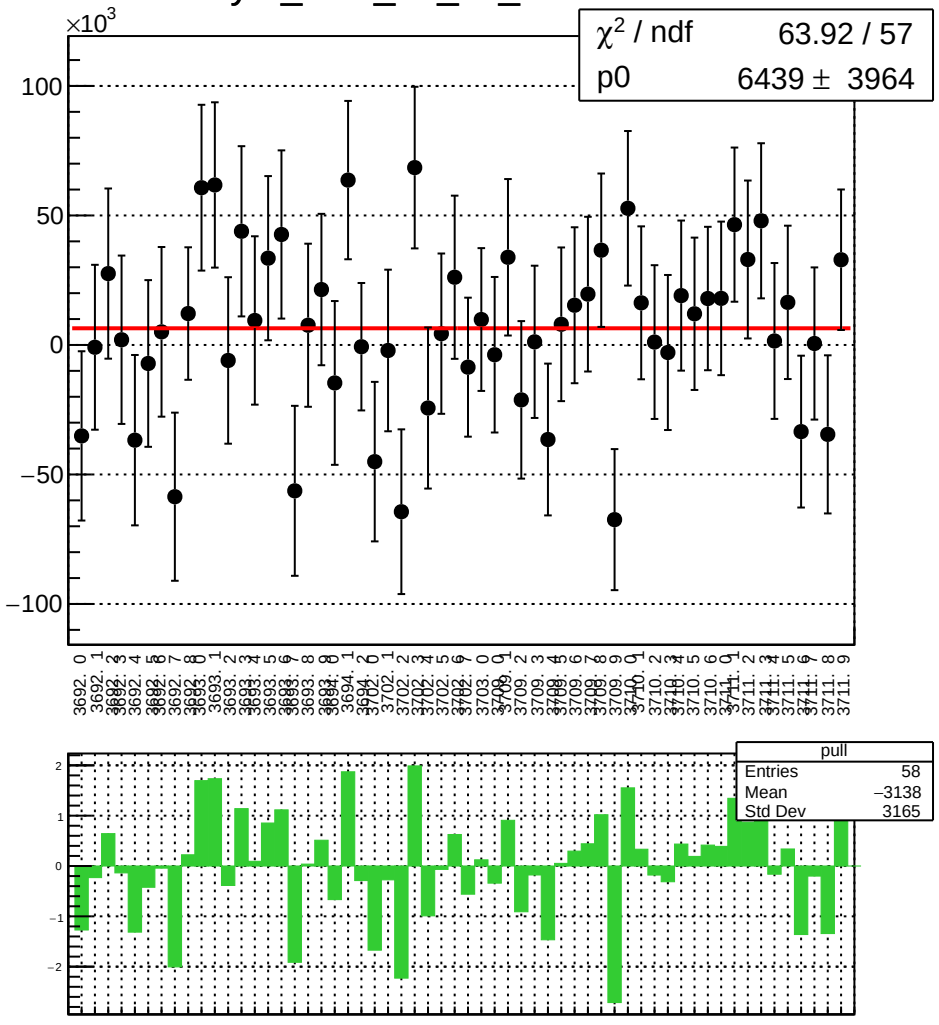

pull1D
Entries 58
Mean 0.003825
Std Dev 1.008

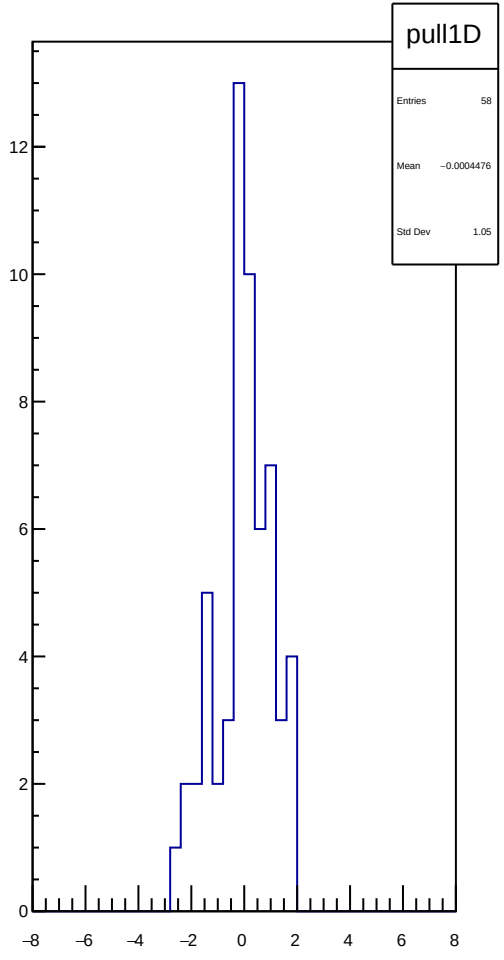

asym_bcm_an_ds_rms vs run
χ² / ndf 72.9 / 57
p0 522.2 ± 0.5008
540
535
530
525
520
515
510

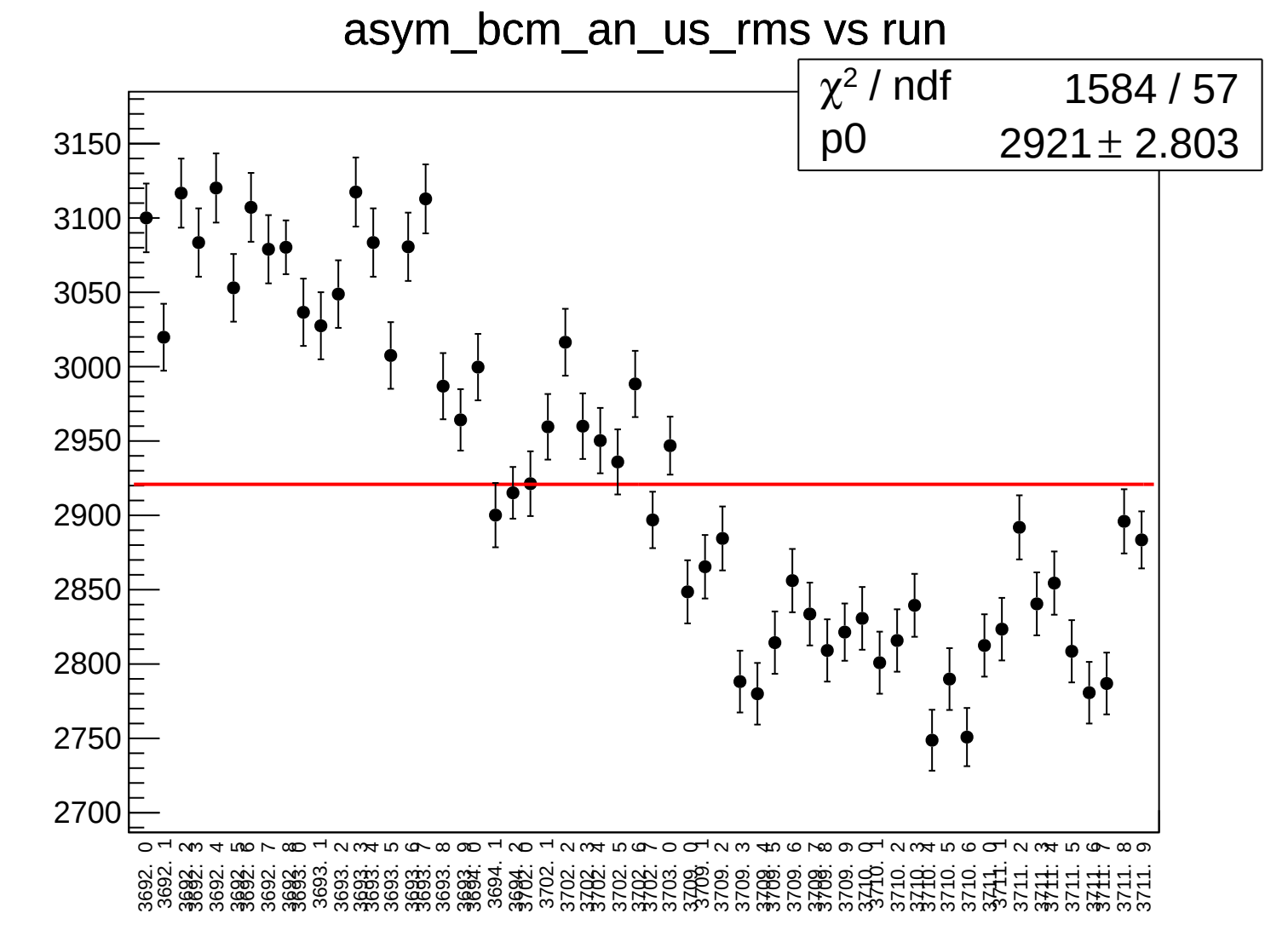

asym_bcm_an_ds3_mean vs run
χ^2 / ndf 70.55 / 57
p0 2.618 ± 103.7
pull
Entries 58
Mean 143.3
Std Dev 126.6

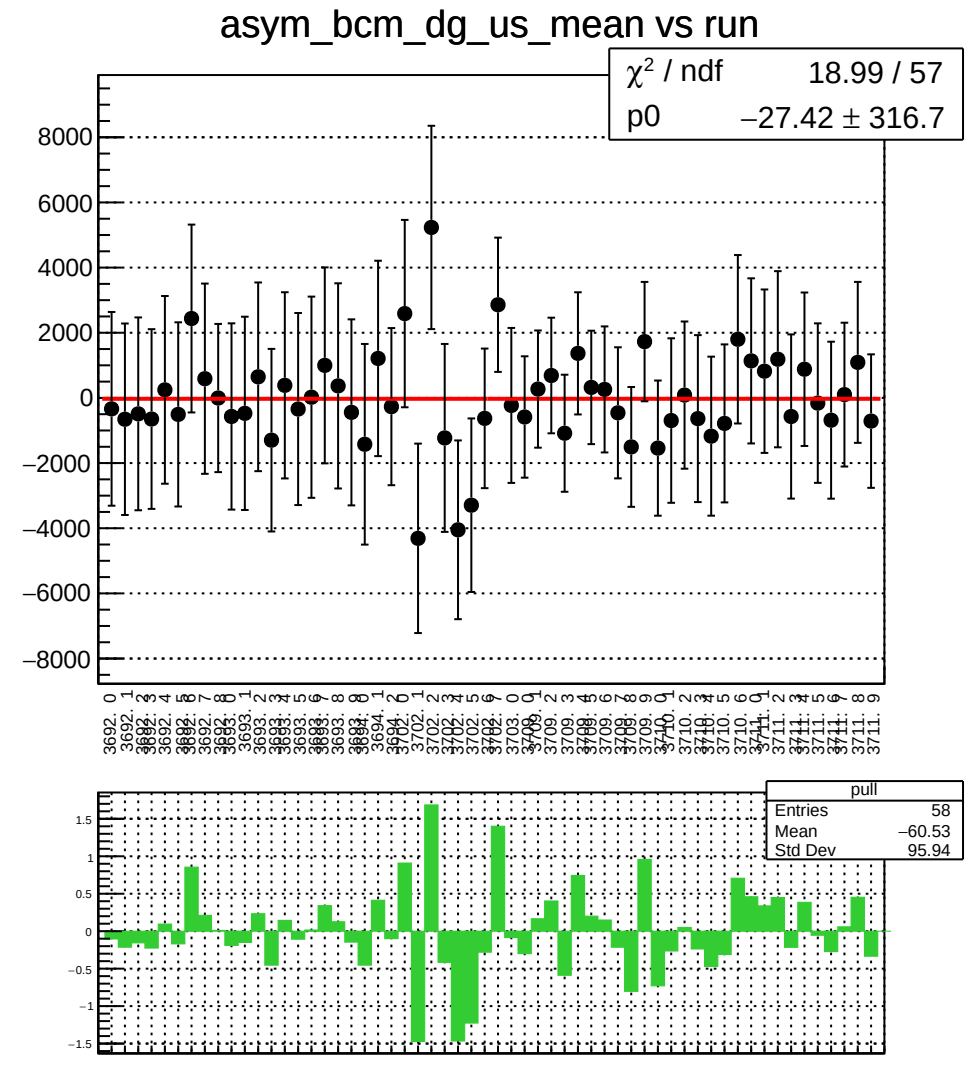

pull1D
Entries 58
Mean −0.007587
Std Dev 1.103

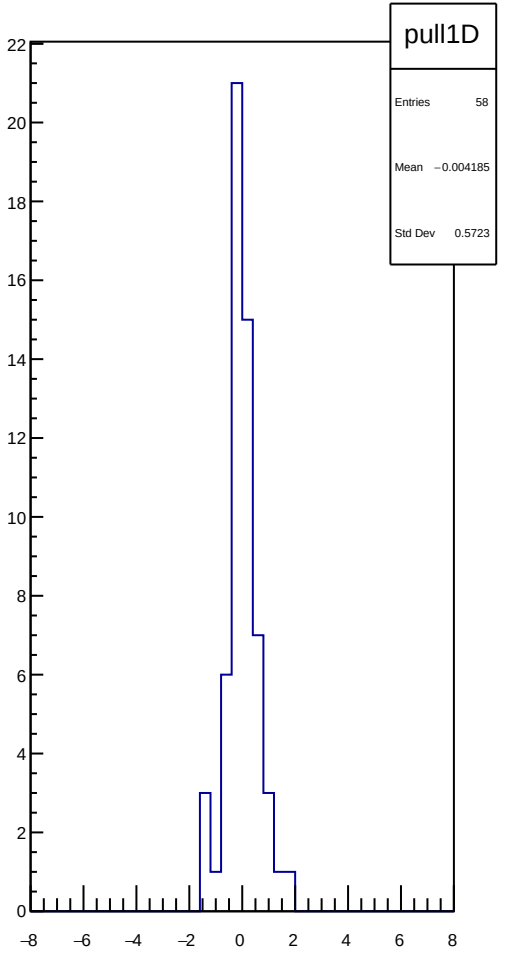

asym_bcm_an_ds3_rms vs run
χ² / ndf 385.7 / 57
p0 76.48 ± 0.07335
82
81
80
79
78
77
76
75
74
73

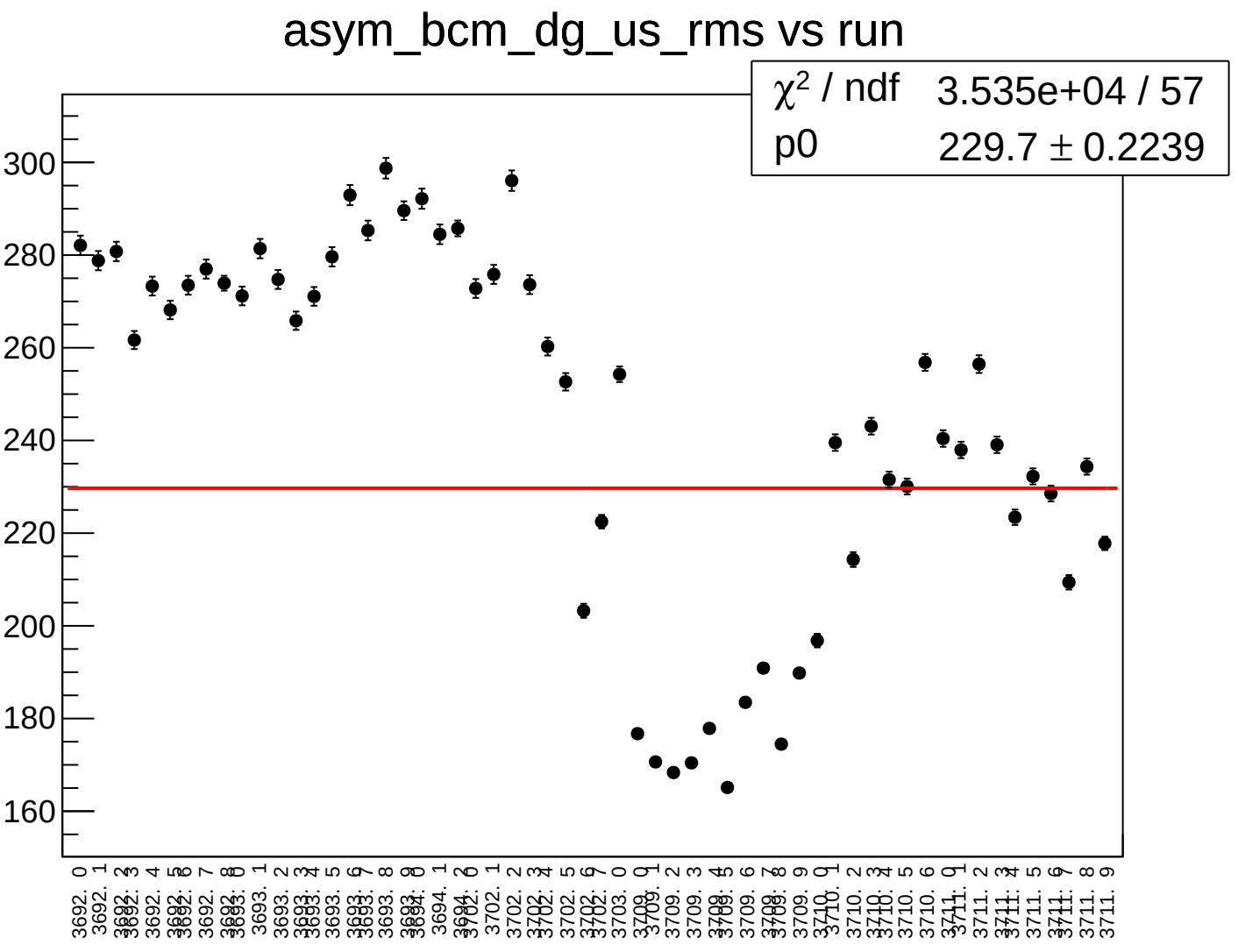

asym_bcm_an_us_mean vs run
×10^3
χ² / ndf 63.92 / 57
p0 6439 ± 3964
100
50
0
−50
−100
pull
Entries 58
Mean −3138
Std Dev 3165
2
1
0
−1
−2

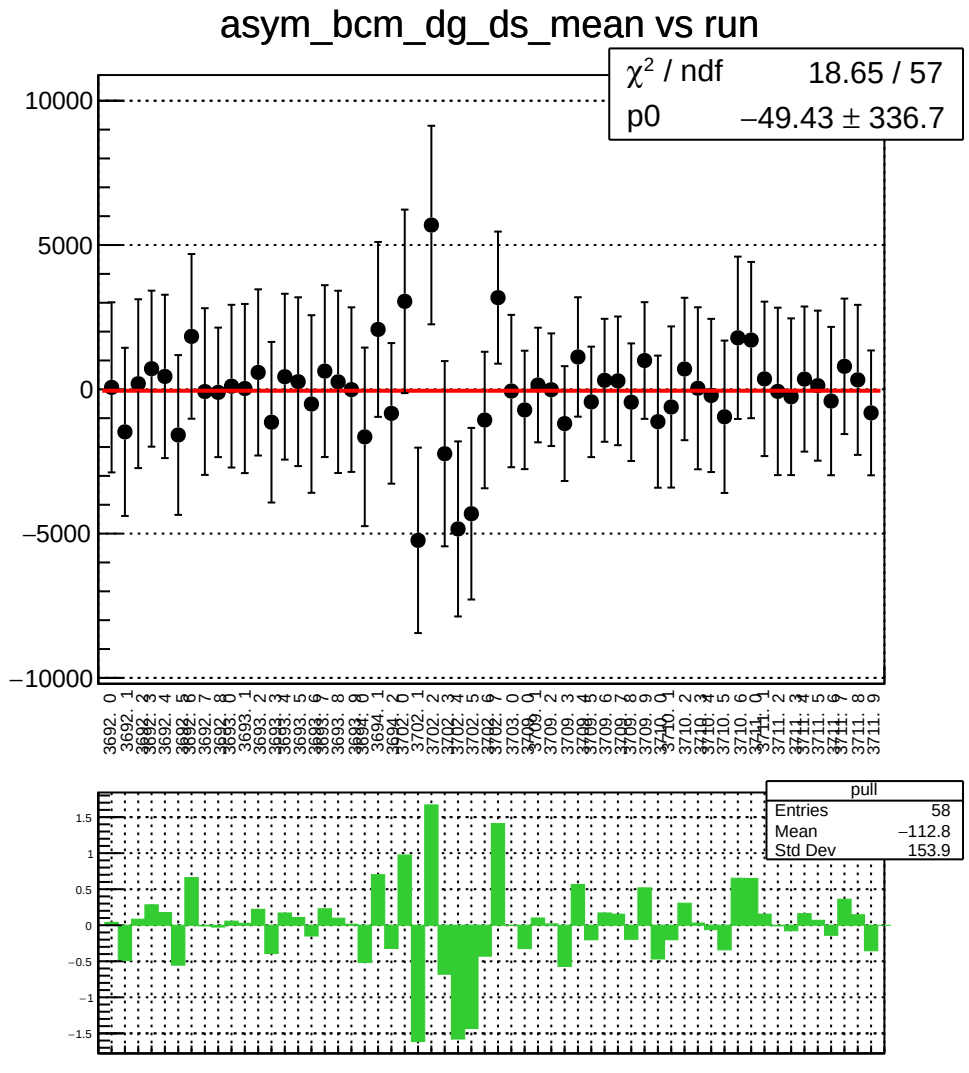

pull1D
Entries 58
Mean −0.0004476
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

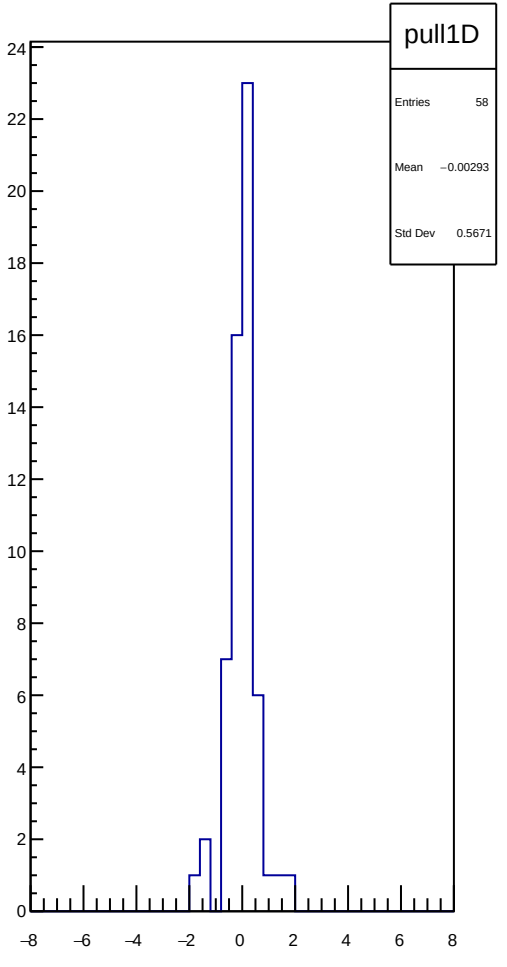

asym_bcm_an_us_rms vs run
χ² / ndf 1584 / 57
p0 2921 ± 2.803
3150
3100
3050
3000
2950
2900
2850
2800
2750
2700

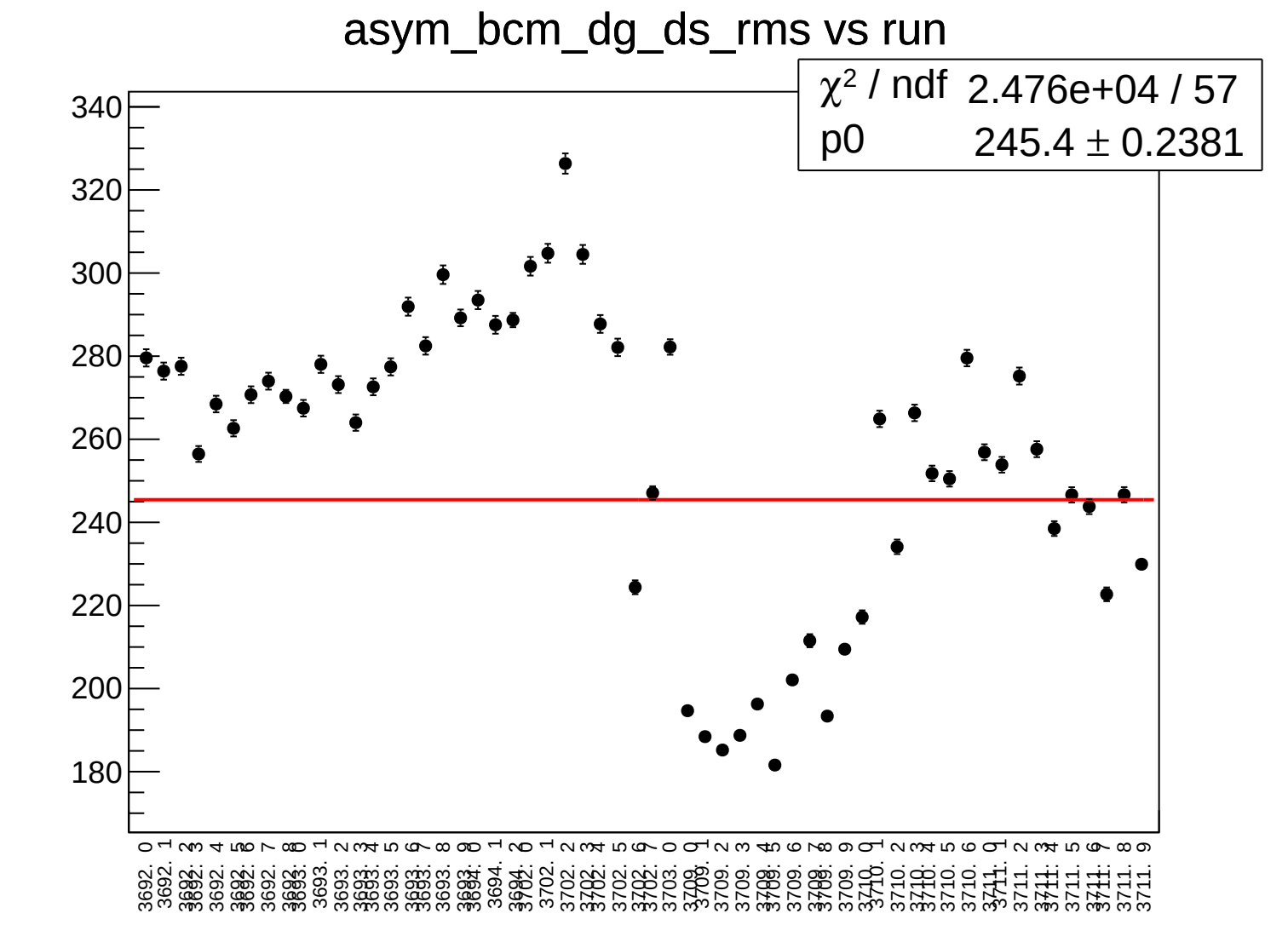

asym_bcm_dg_us_mean vs run
χ² / ndf 18.99 / 57
p0 −27.42 ± 316.7
pull
Entries 58
Mean −60.53
Std Dev 95.94

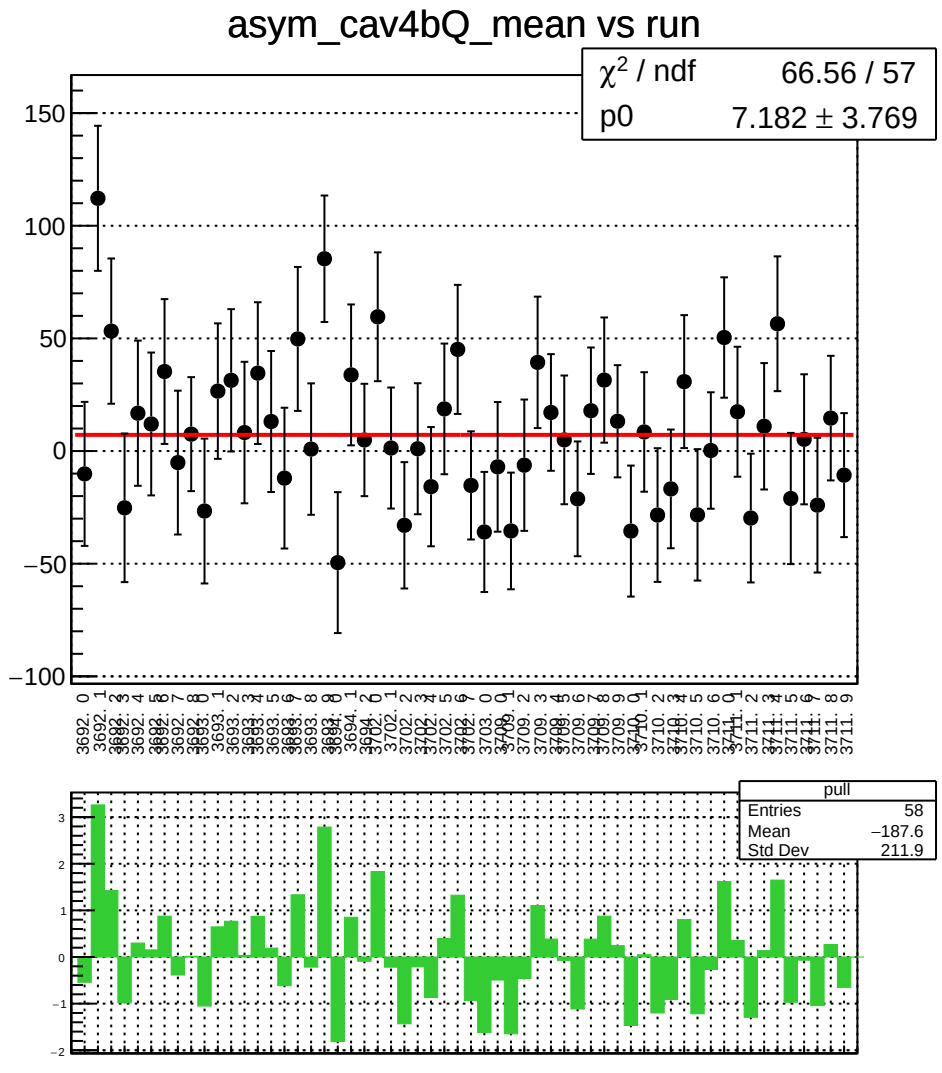

pull1D
Entries 58
Mean −0.004185
Std Dev 0.5723

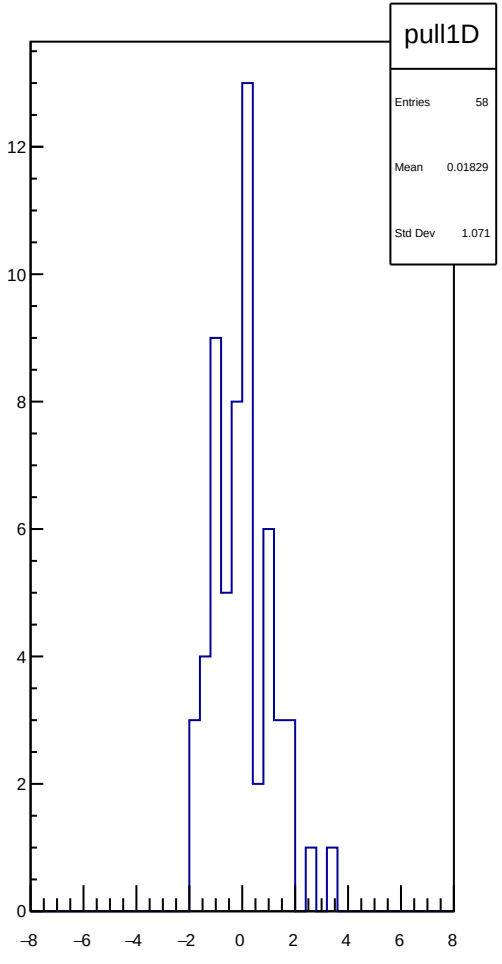

asym_bcm_dg_us_rms vs run
χ² / ndf 3.535e+04 / 57
p0 229.7 ± 0.2239
300
280
260
240
220
200
180
160

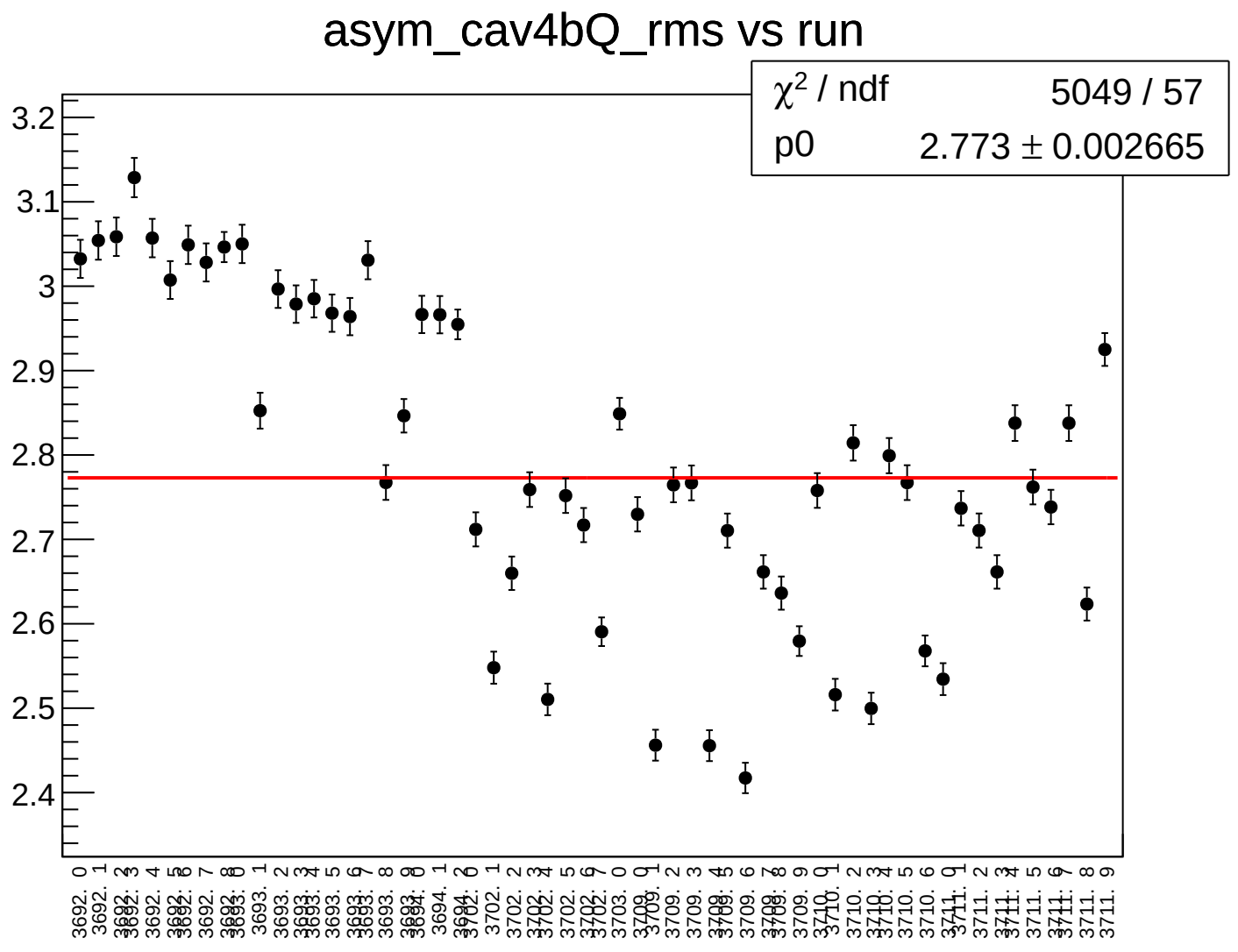

asym_bcm_dg_ds_mean vs run
χ² / ndf 18.65 / 57
p0 −49.43 ± 336.7
10000
5000
0
−5000
−10000
pull
Entries 58
Mean −112.8
Std Dev 153.9
1.5
1
0.5
0
−0.5
−1
−1.5

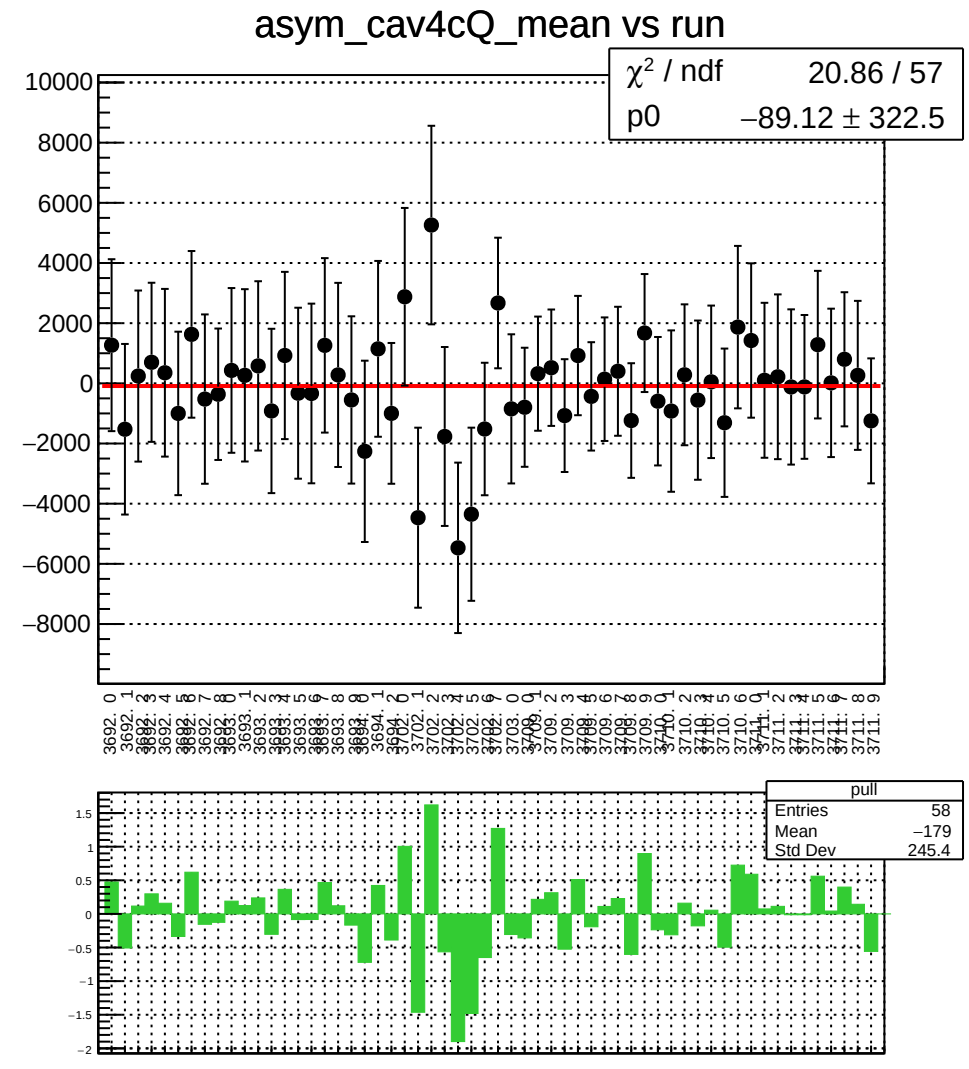

pull1D
Entries 58
Mean −0.00293
Std Dev 0.5671
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

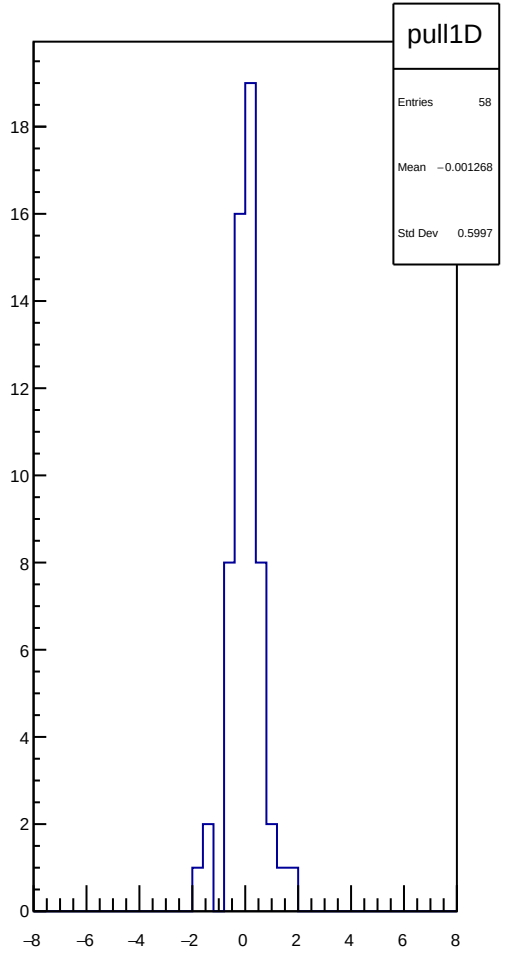

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.476e+04 / 57
p0 245.4 ± 0.2381
340
320
300
280
260
240
220
200
180

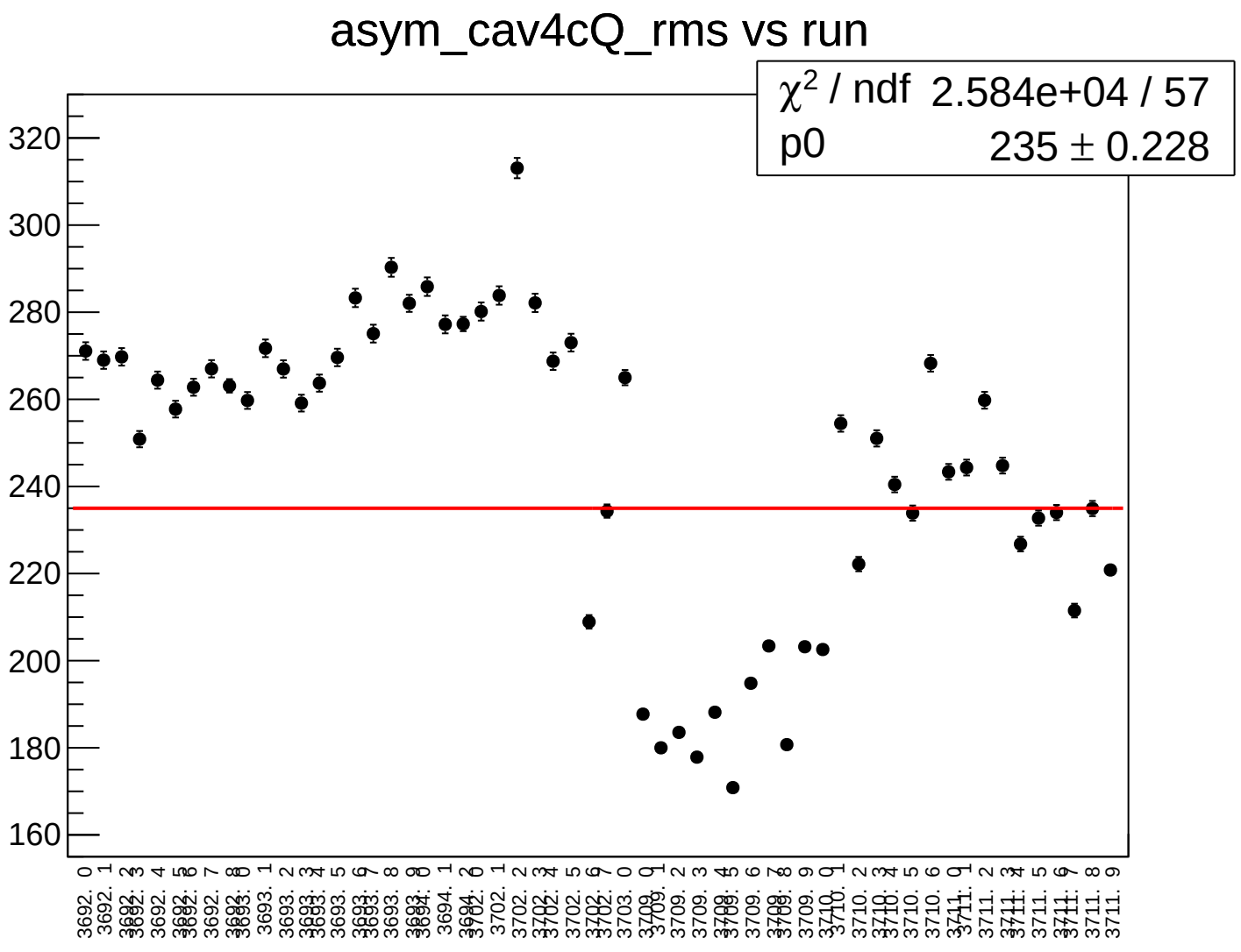

asym_cav4bQ_mean vs run
χ² / ndf 66.56 / 57
p0 7.182 ± 3.769
150
100
50
0
−50
−100
pull
Entries 58
Mean −187.6
Std Dev 211.9
3
2
1
0
−1
−2

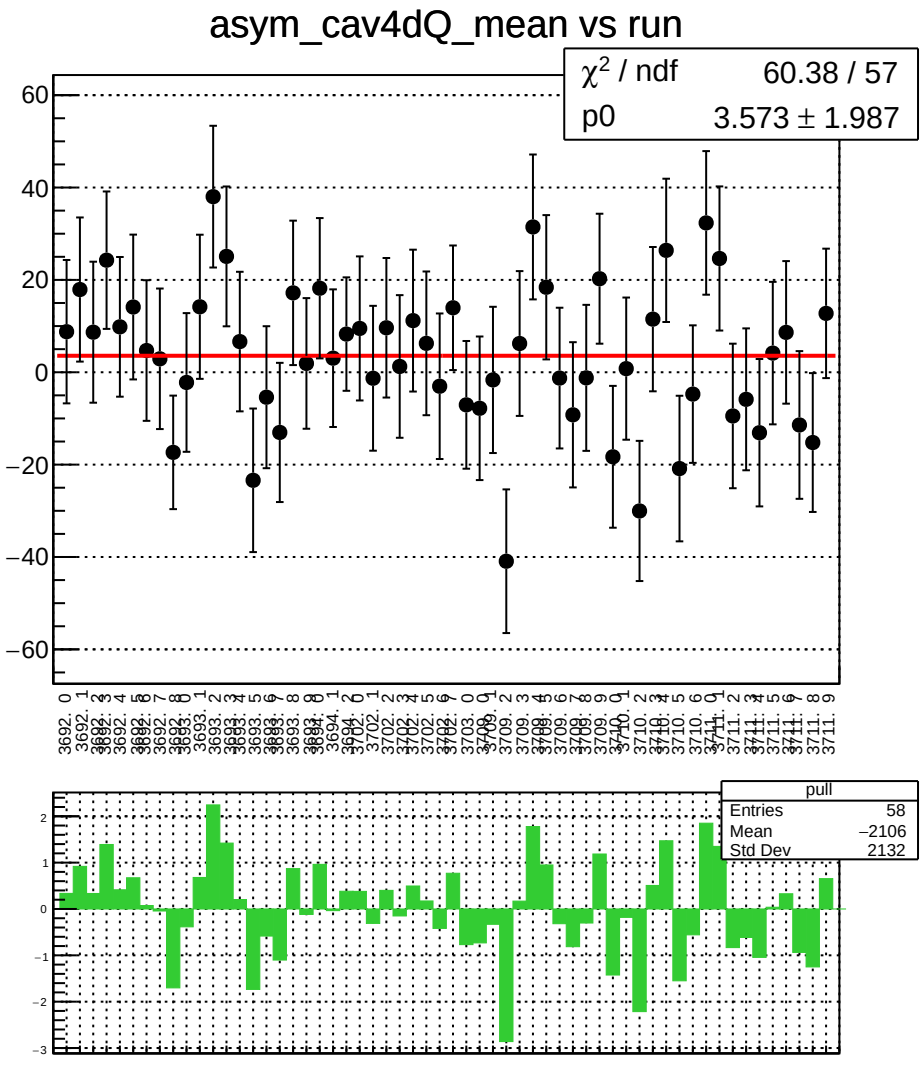

pull1D
Entries 58
Mean 0.01829
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

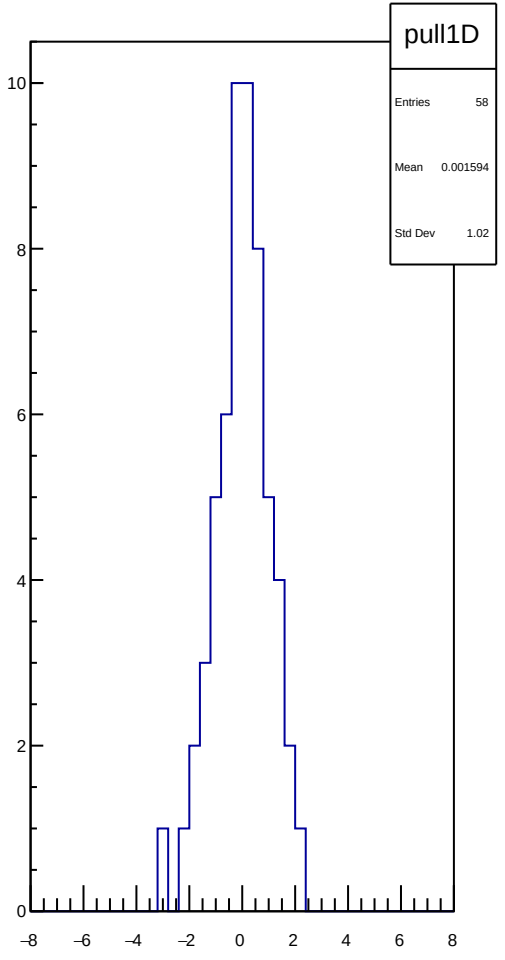

asym_cav4bQ_rms vs run
χ^2 / ndf 5049 / 57
p0 2.773 ± 0.002665
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4

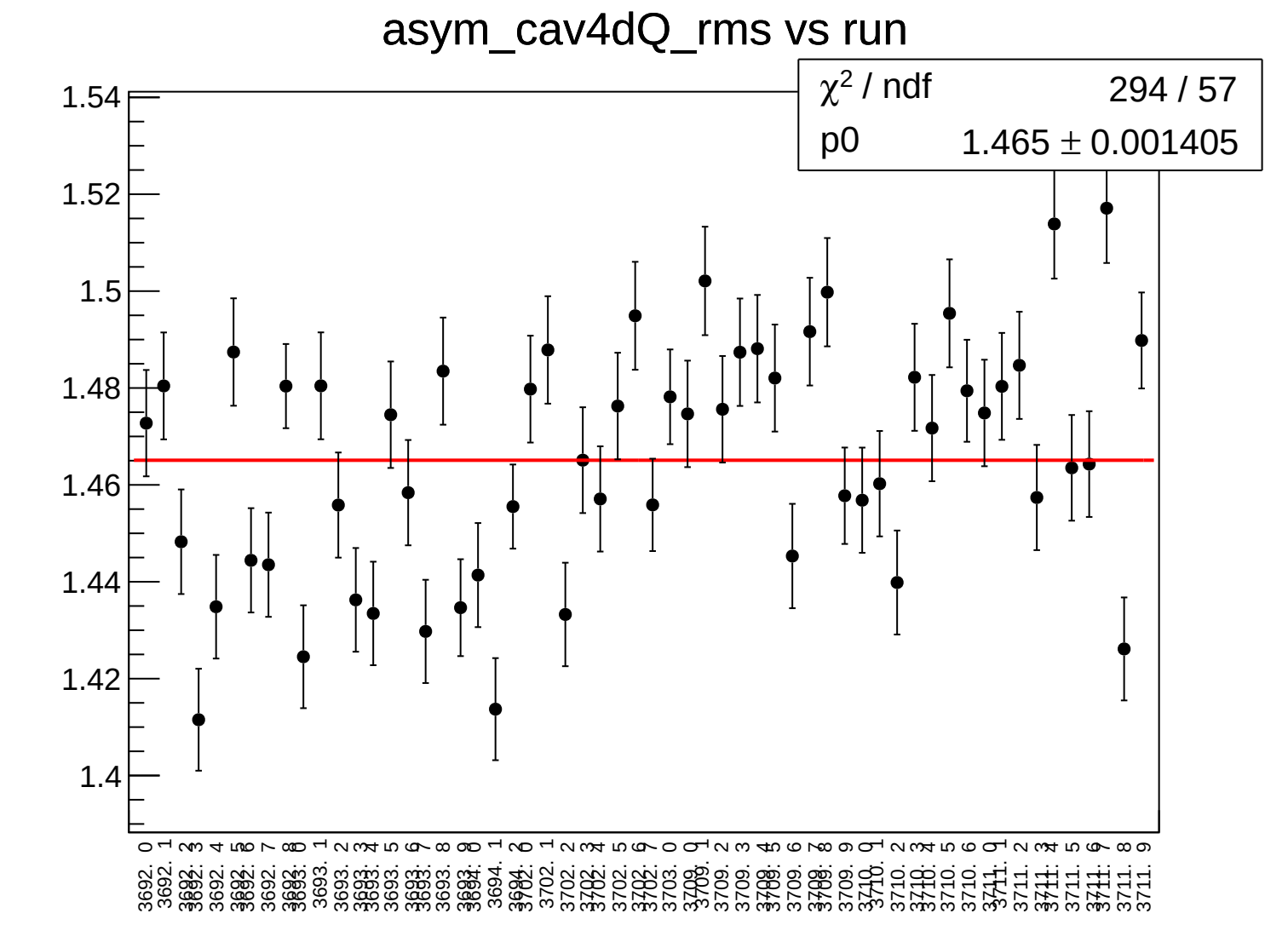

asym_cav4cQ_mean vs run
χ² / ndf 20.86 / 57
p0 −89.12 ± 322.5
pull
Entries 58
Mean −179
Std Dev 245.4

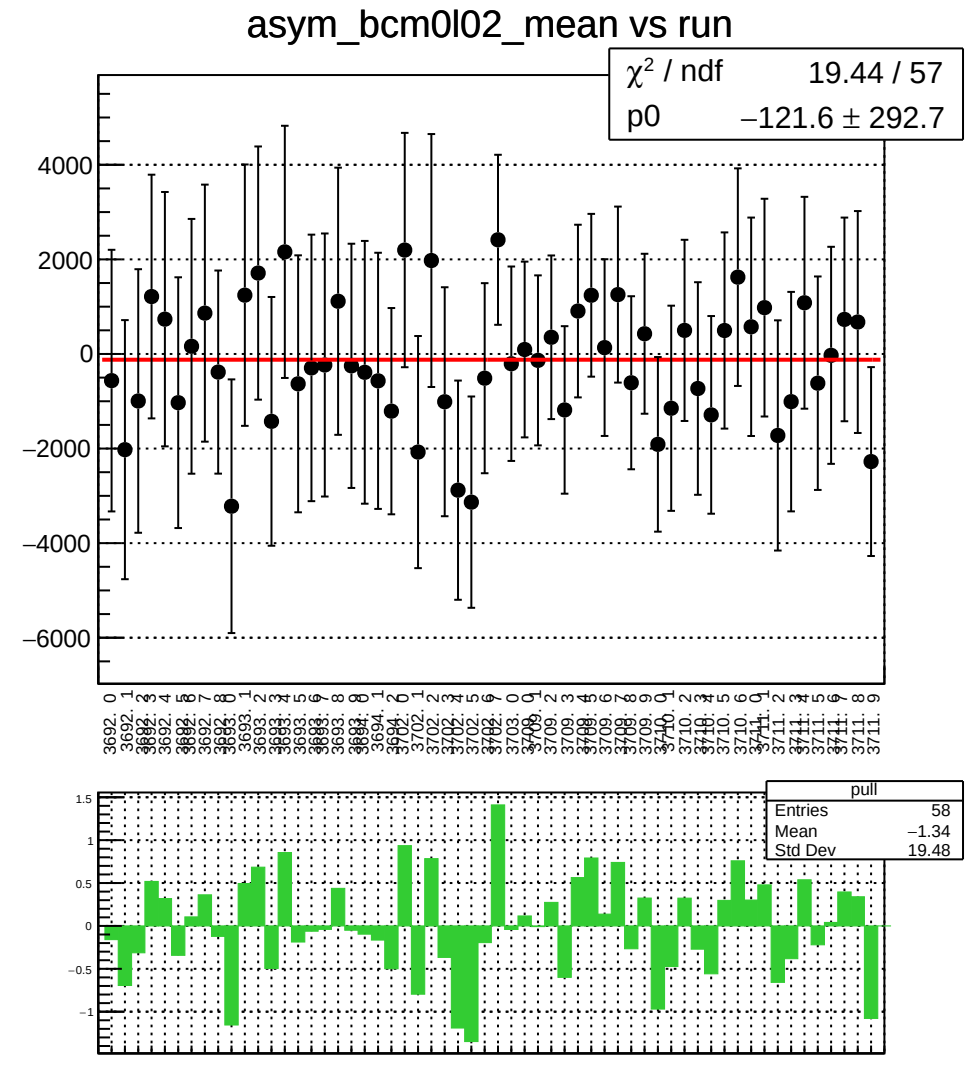

pull1D
Entries 58
Mean −0.001268
Std Dev 0.5997

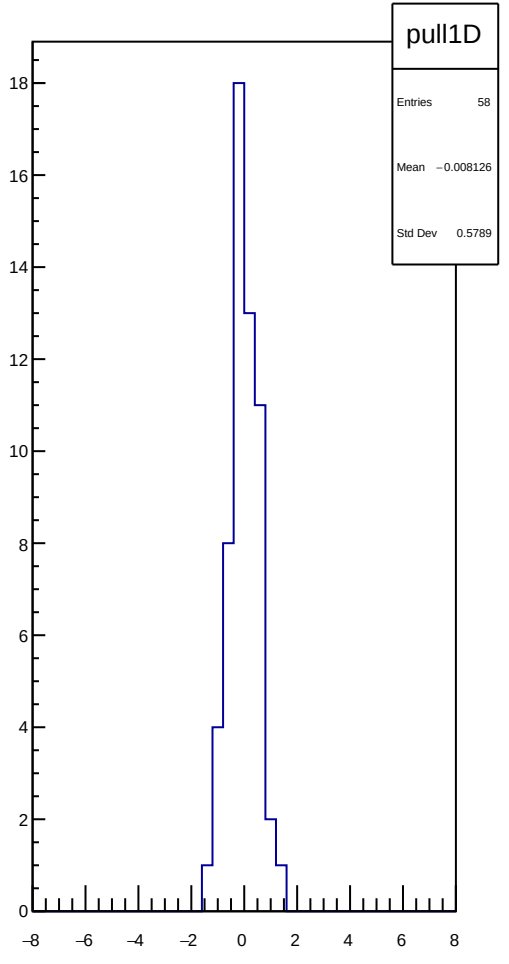

asym_cav4cQ_rms vs run
χ² / ndf 2.584e+04 / 57
p0 235 ± 0.228
320
300
280
260
240
220
200
180
160

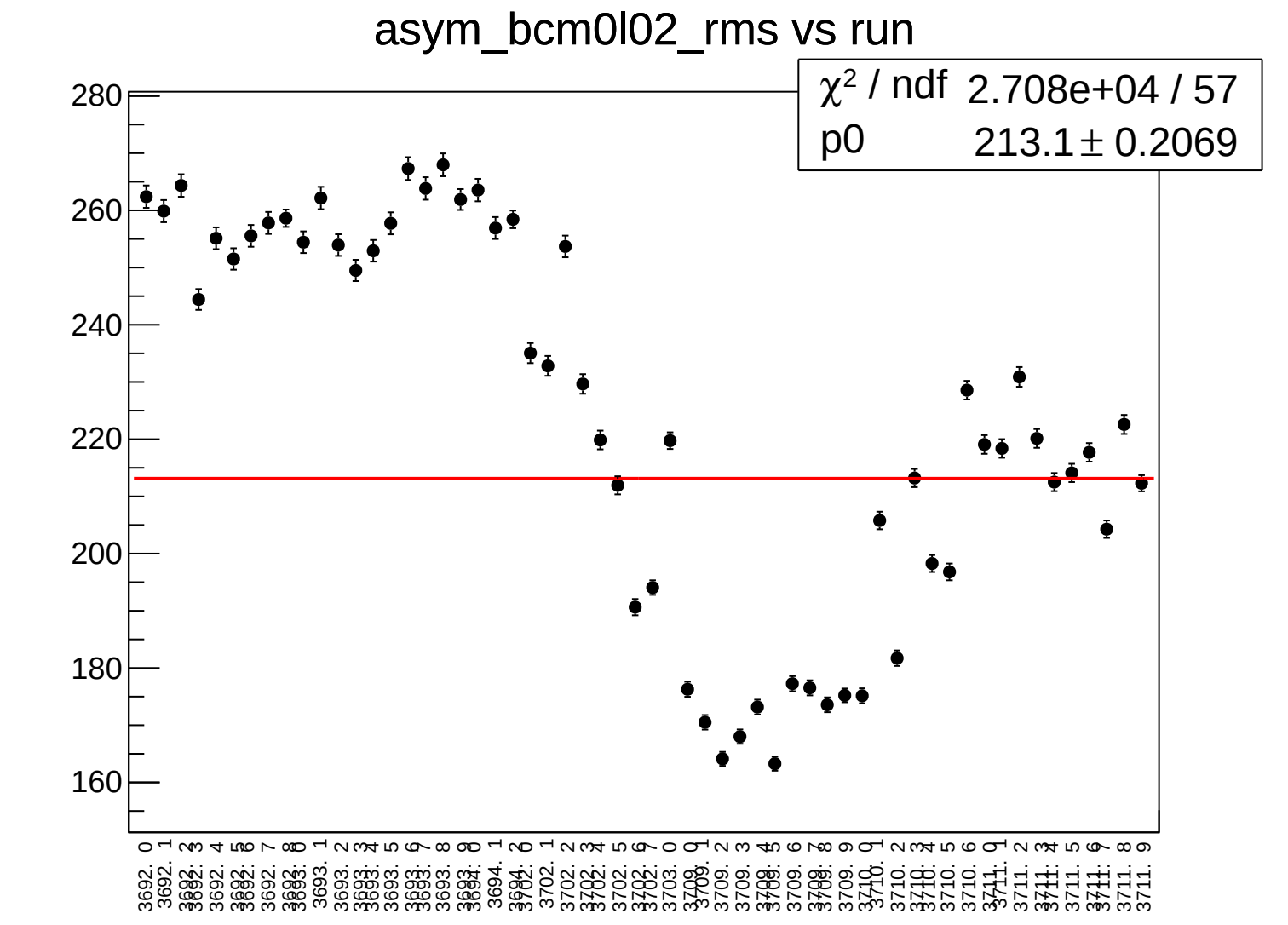

asym_cav4dQ_mean vs run
χ² / ndf 60.38 / 57
p0 3.573 ± 1.987
pull
Entries 58
Mean −2106
Std Dev 2132

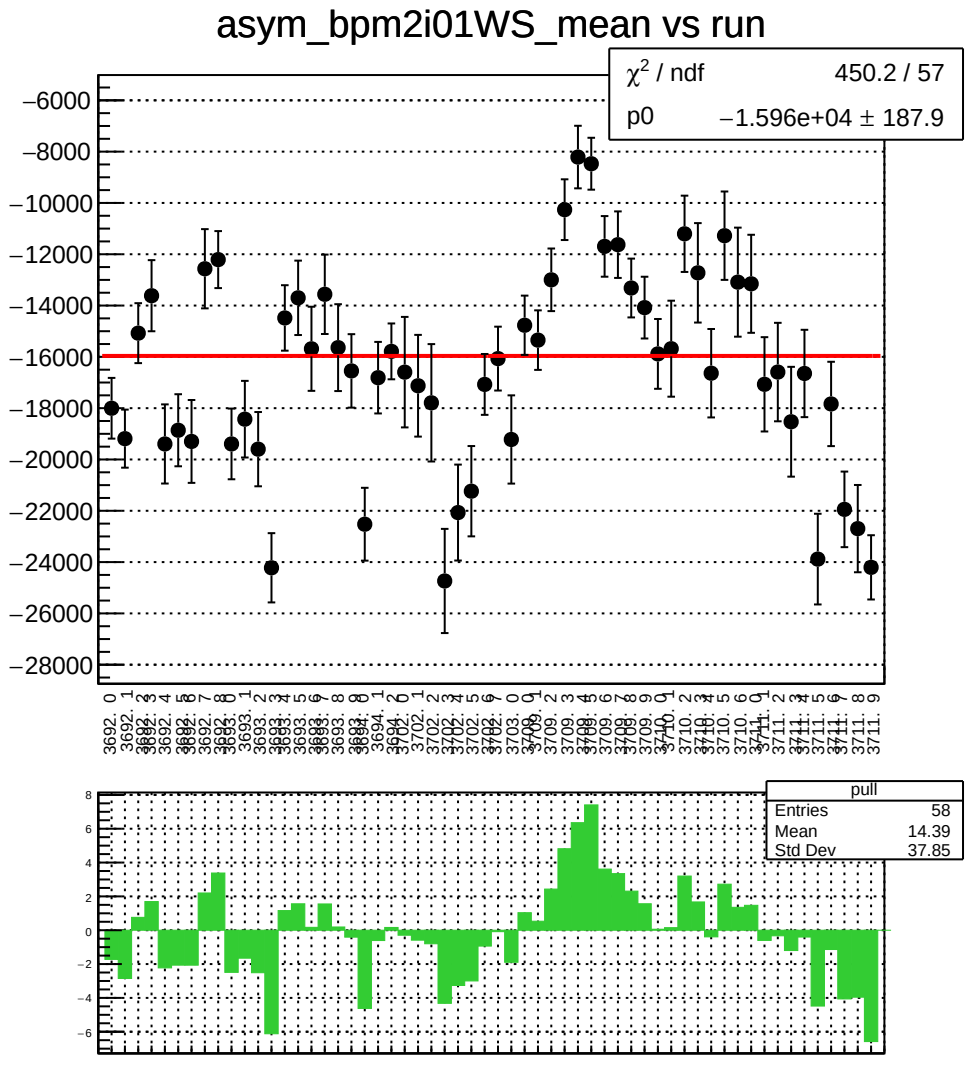

pull1D
Entries 58
Mean 0.001594
Std Dev 1.02

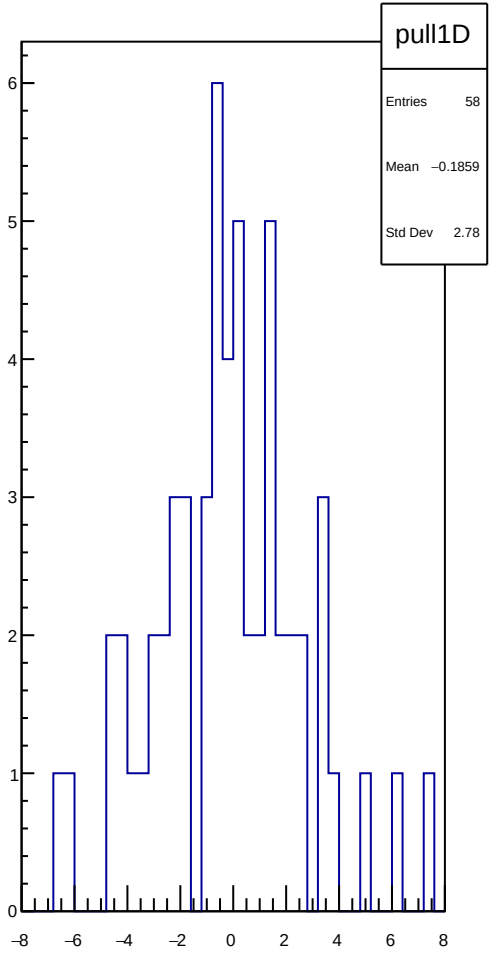

asym_cav4dQ_rms vs run
χ² / ndf 294 / 57
p0 1.465 ± 0.001405
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4

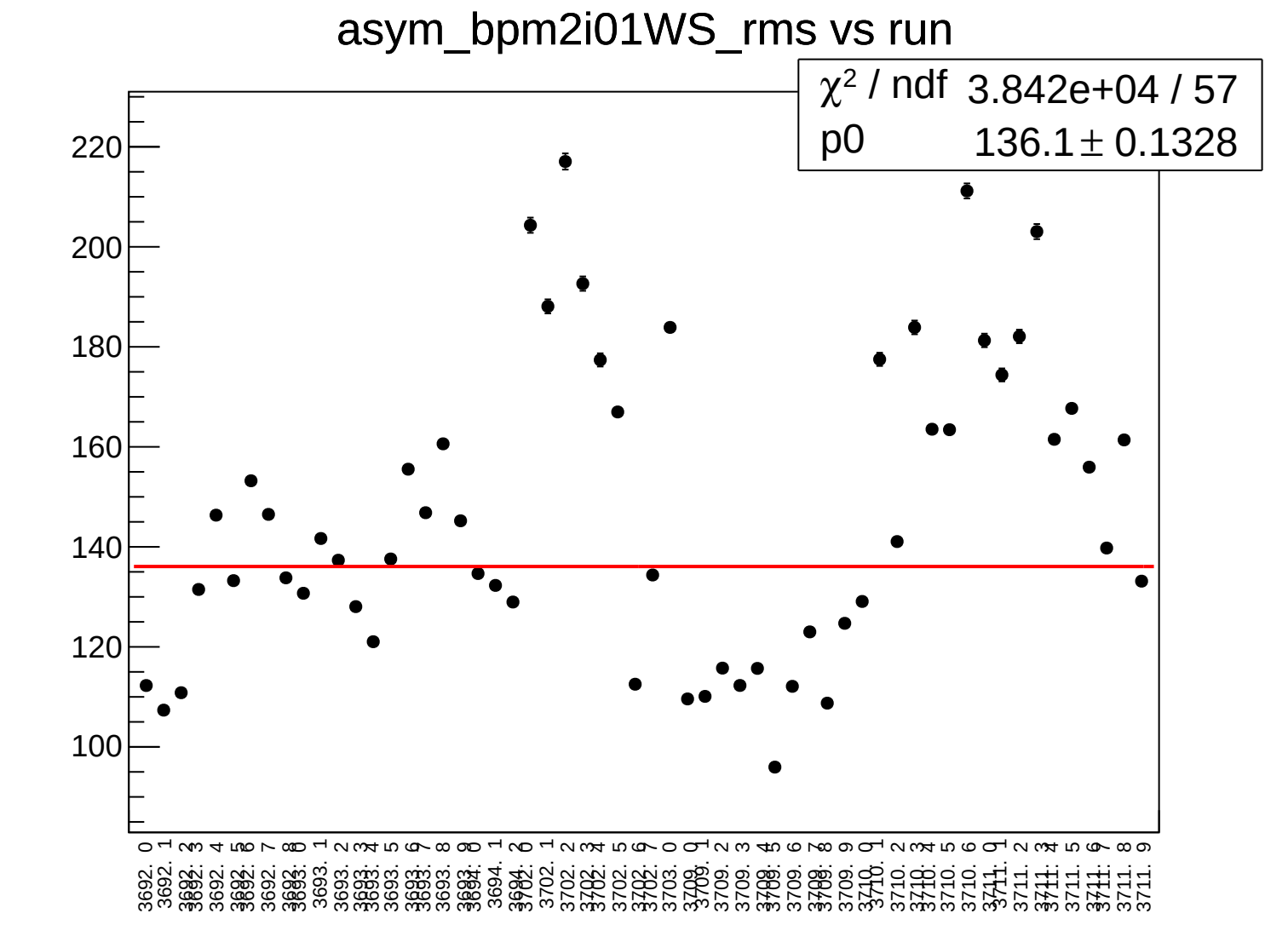

asym_bcm0l02_mean vs run
χ^2 / ndf 19.44 / 57
p0 −121.6 ± 292.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 58
Mean −1.34
Std Dev 19.48
1.5
1
0.5
0
−0.5
−1

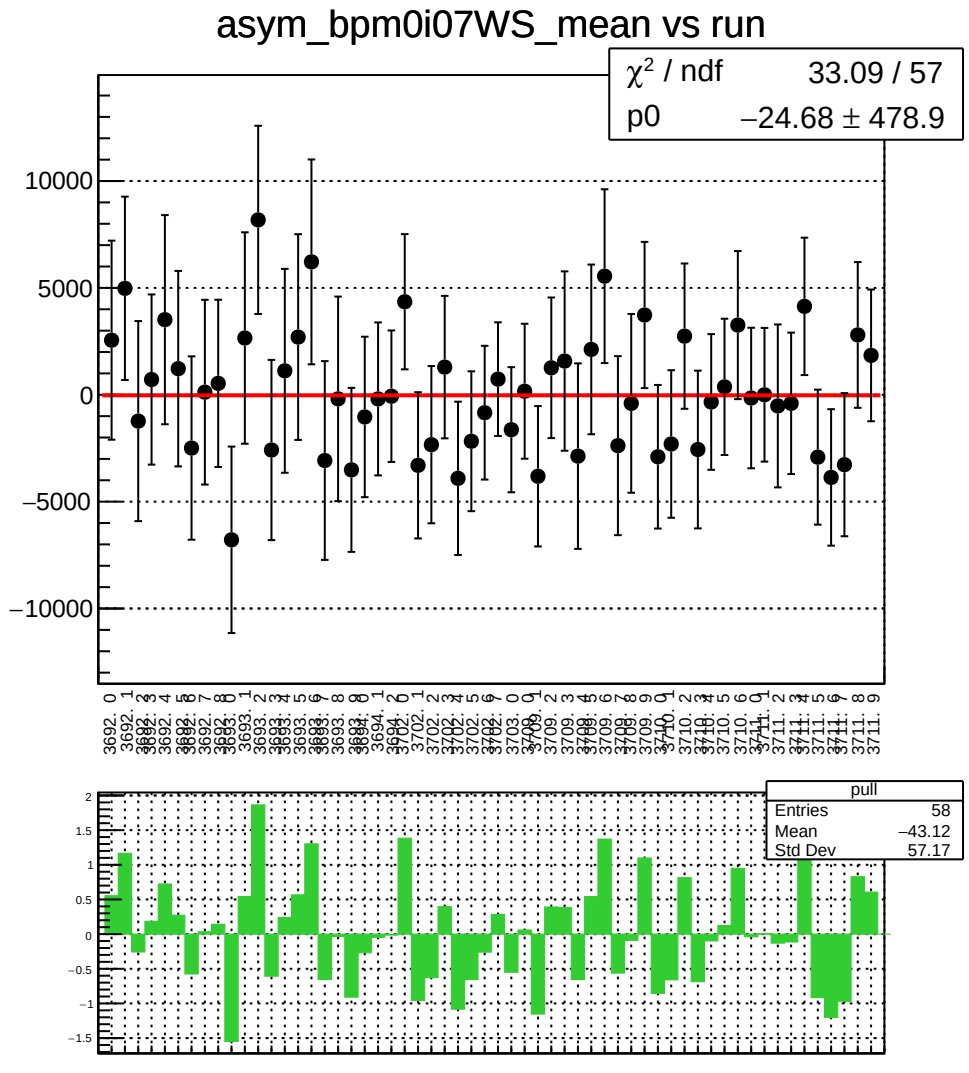

pull1D
Entries 58
Mean −0.008126
Std Dev 0.5789
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

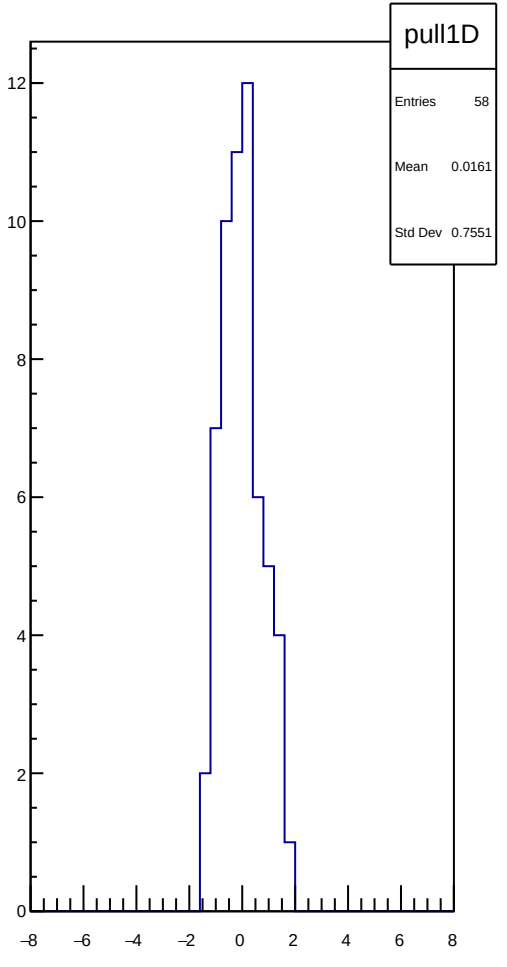

asym_bcm0l02_rms vs run
χ² / ndf 2.708e+04 / 57
p0 213.1 ± 0.2069
280
260
240
220
200
180
160

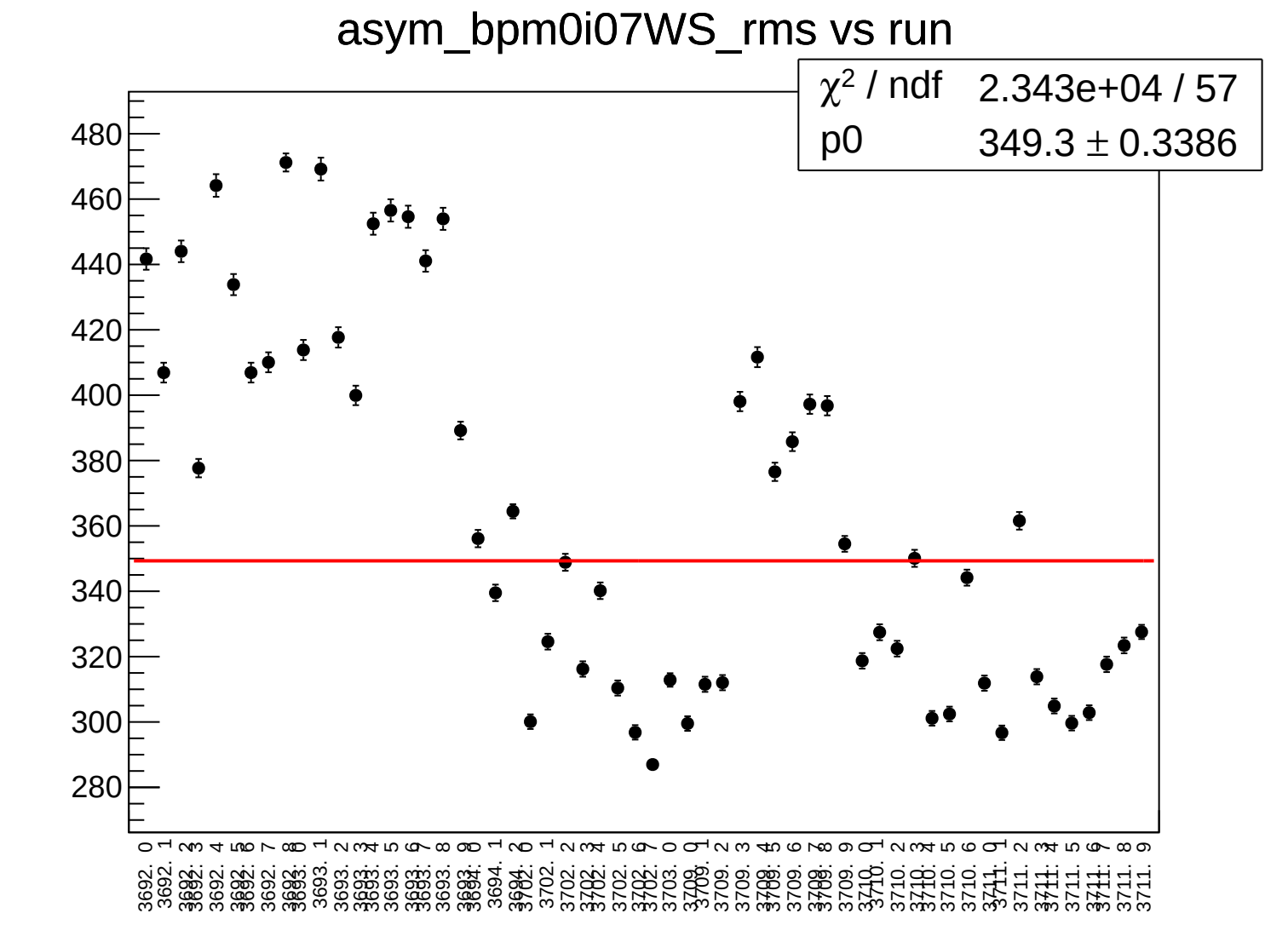

asym_bpm2i01WS_mean vs run
χ² / ndf 450.2 / 57
p0 −1.596e+04 ± 187.9
pull
Entries 58
Mean 14.39
Std Dev 37.85

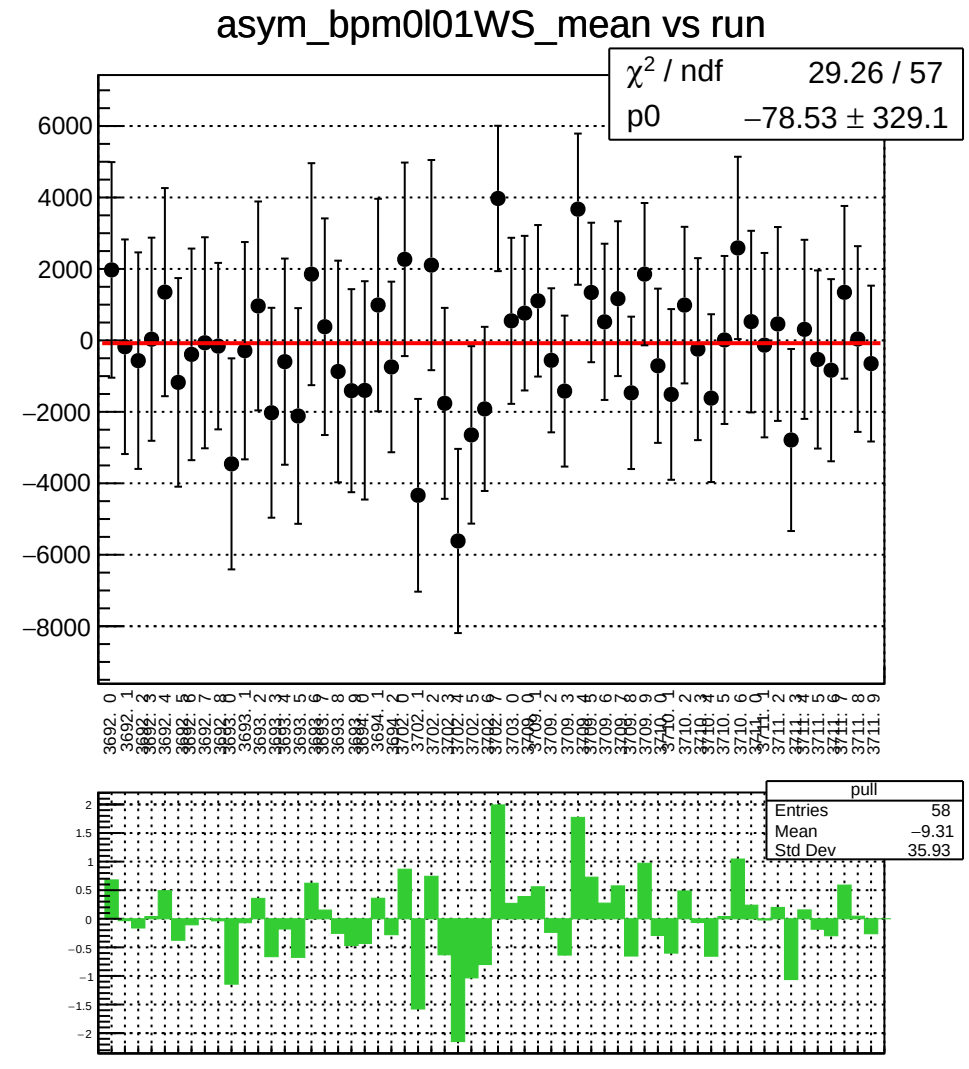

pull1D
Entries 58
Mean −0.1859
Std Dev 2.78

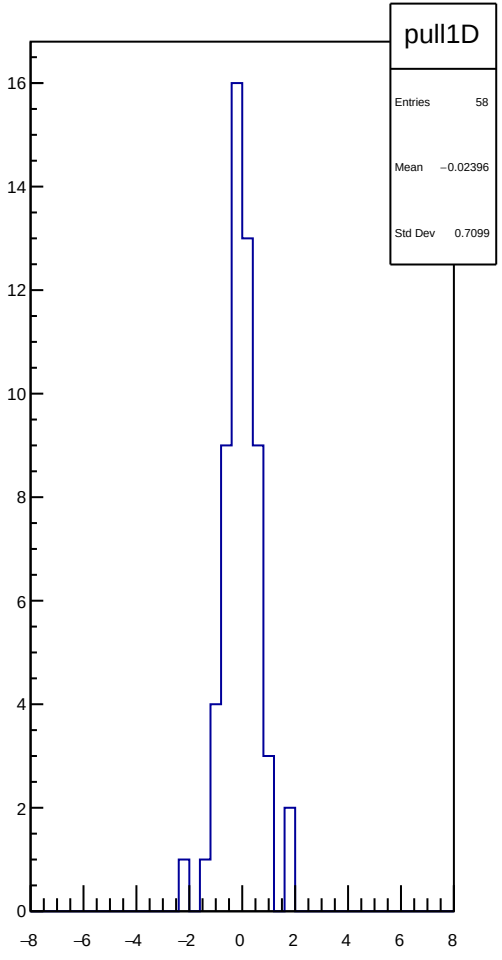

asym_bpm2i01WS_rms vs run
χ² / ndf 3.842e+04 / 57
p0 136.1 ± 0.1328
220
200
180
160
140
120
100

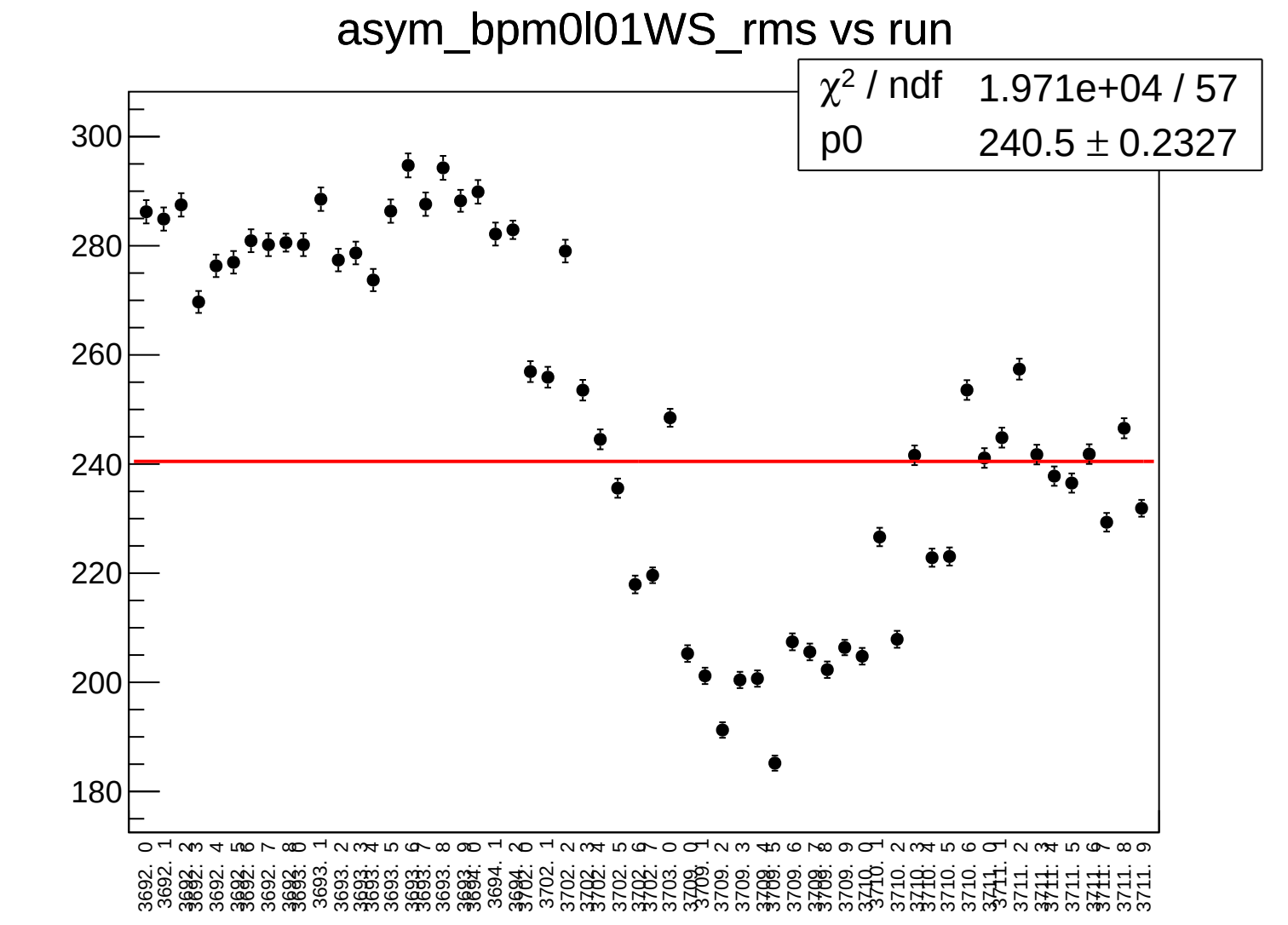

asym_bpm0i07WS_mean vs run
χ² / ndf 33.09 / 57
p0 −24.68 ± 478.9
10000
5000
0
−5000
−10000
pull
Entries 58
Mean −43.12
Std Dev 57.17
2
1.5
1
0.5
0
−0.5
−1
−1.5

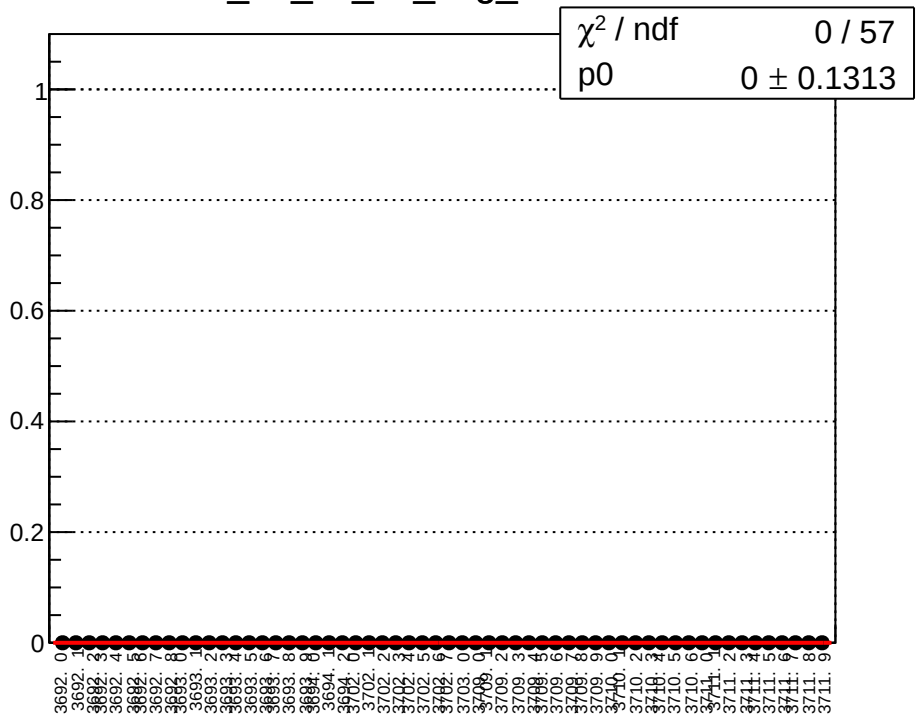

pull1D
Entries 58
Mean 0.0161
Std Dev 0.7551
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

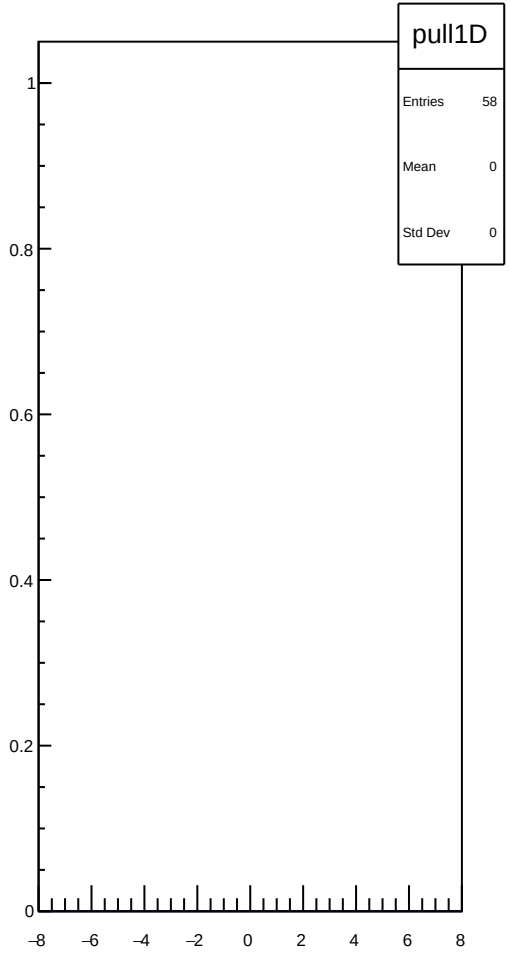

asym_bpm0i07WS_rms vs run
χ² / ndf 2.343e+04 / 57
p0 349.3 ± 0.3386
480
460
440
420
400
380
360
340
320
300
280

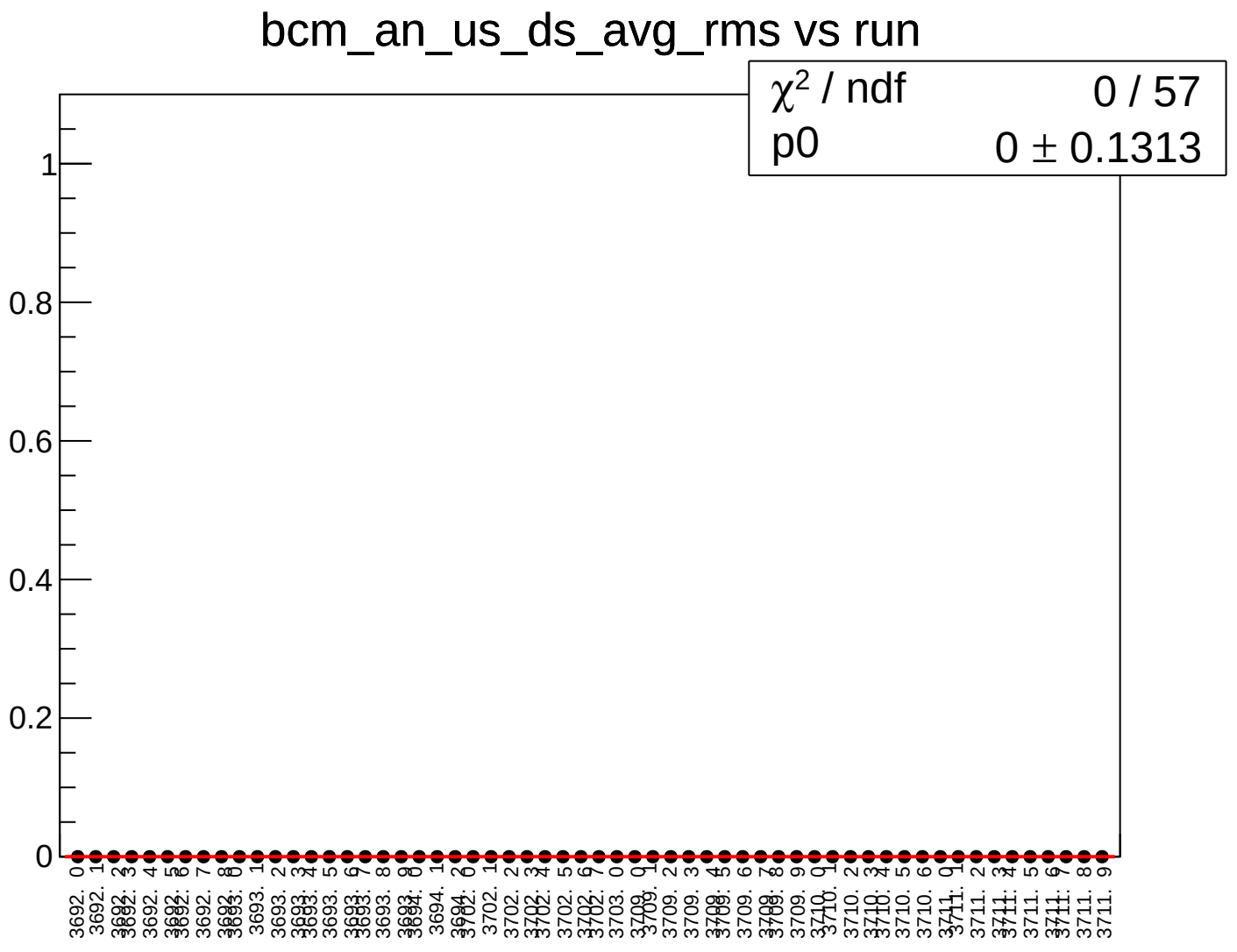

asym_bpm0l01WS_mean vs run
χ² / ndf 29.26 / 57
p0 −78.53 ± 329.1
pull
Entries 58
Mean −9.31
Std Dev 35.93

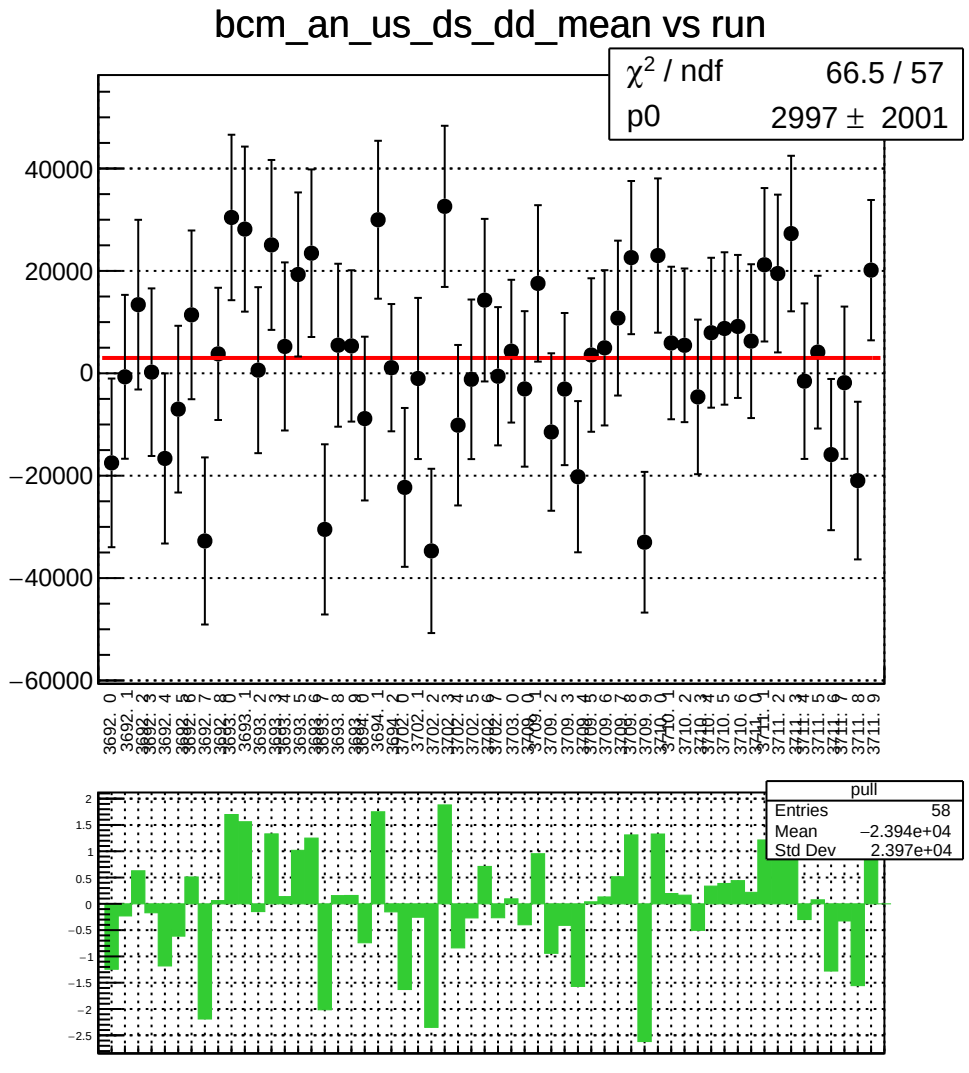

pull1D
Entries 58
Mean −0.02396
Std Dev 0.7099

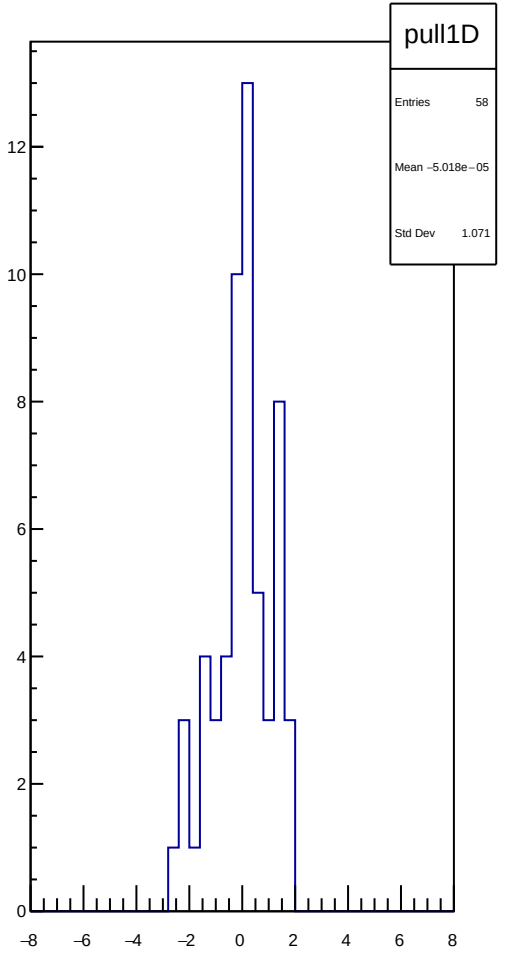

asym_bpm0l01WS_rms vs run
χ² / ndf 1.971e+04 / 57
p0 240.5 ± 0.2327
300
280
260
240
220
200
180

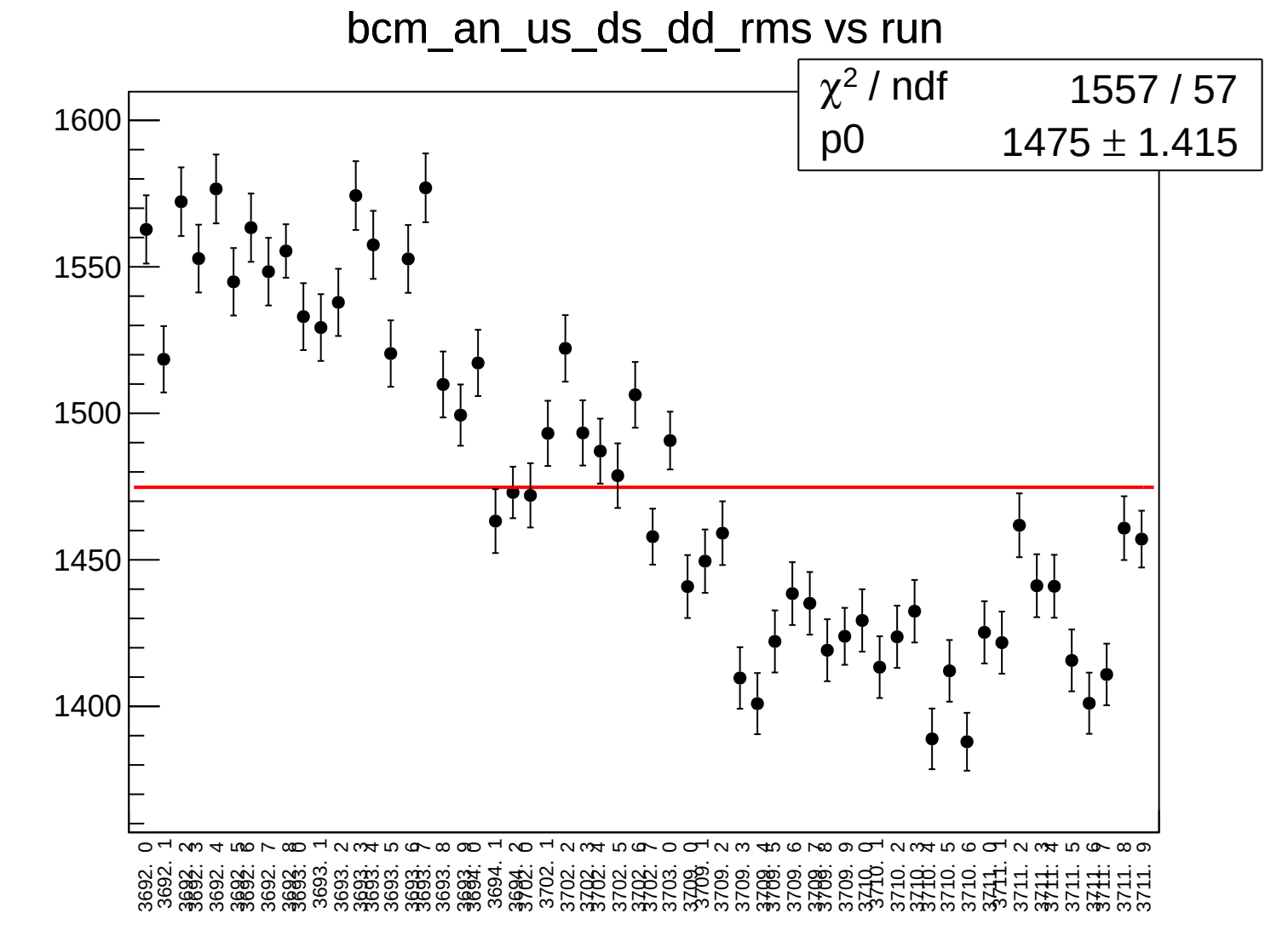

bcm_an_us_ds_avg_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

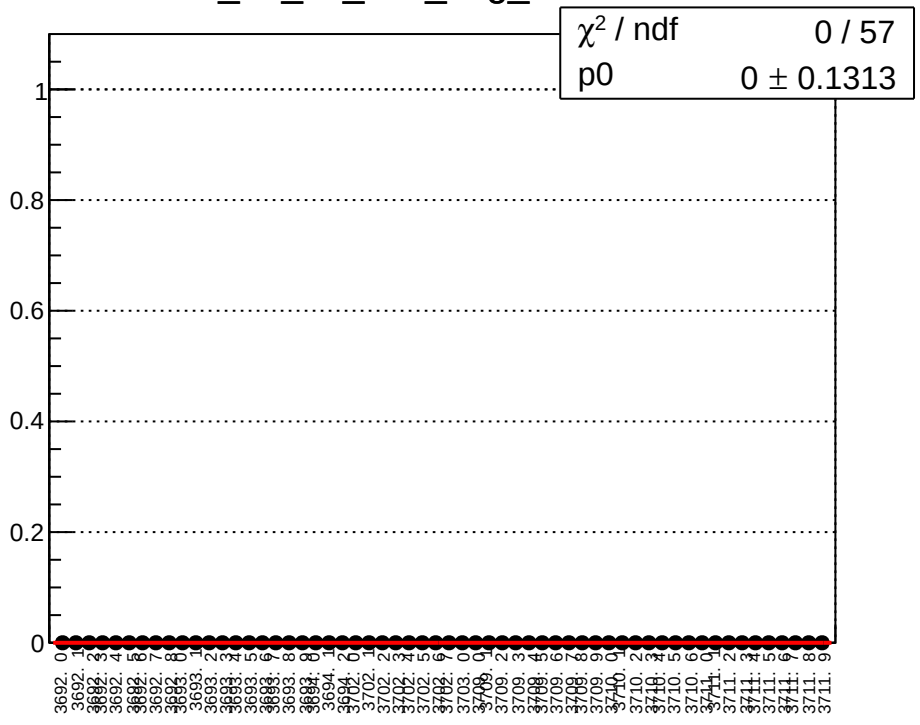

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

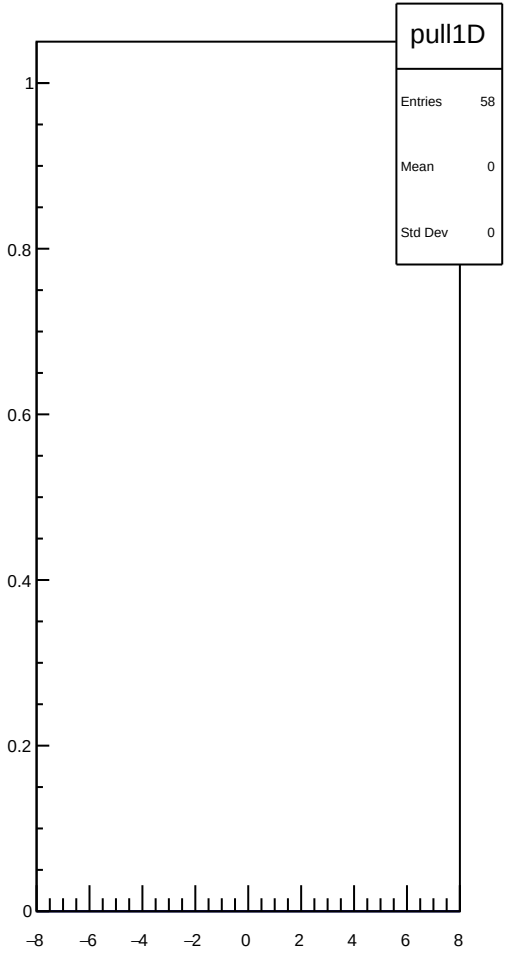

bcm_an_us_ds_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

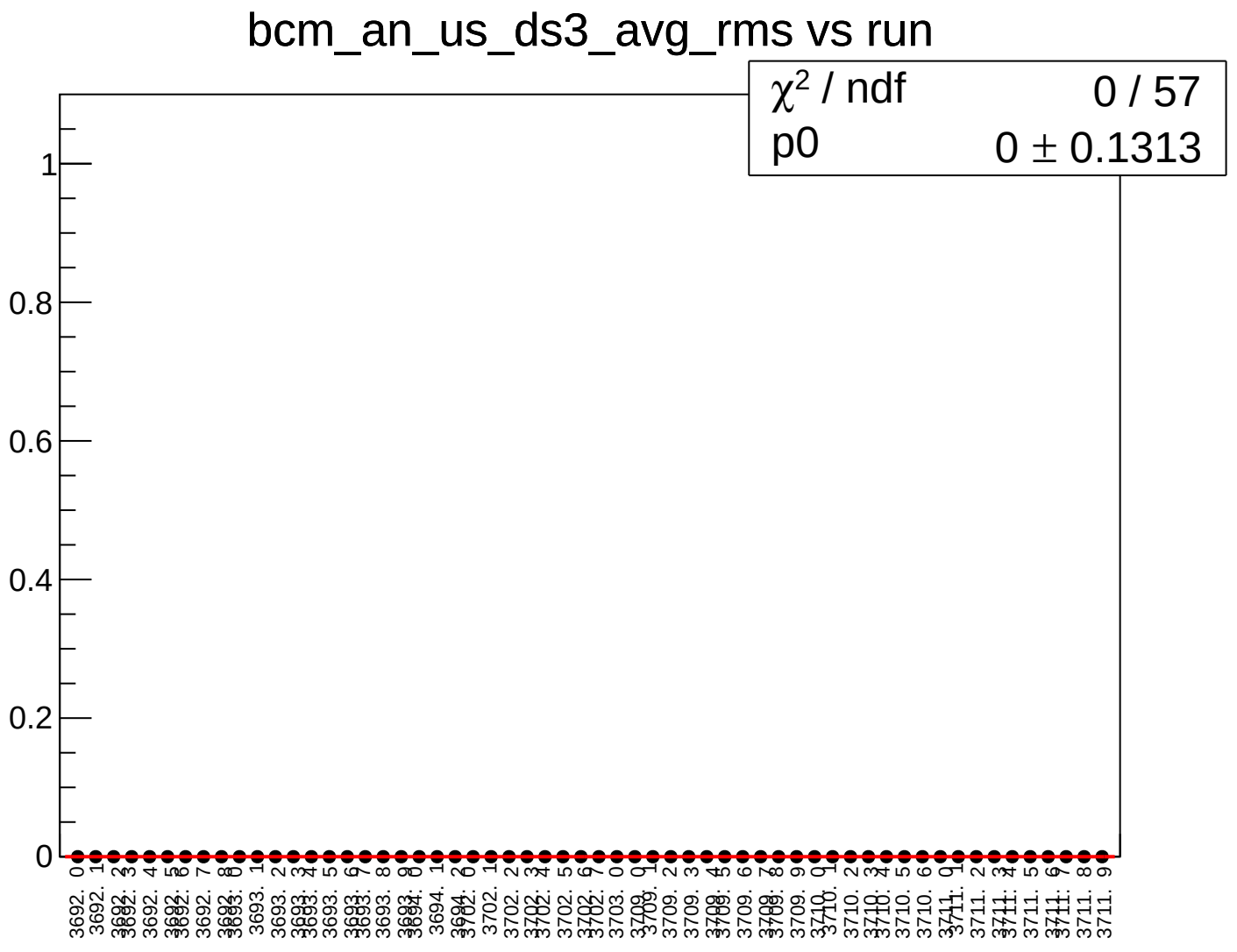

bcm_an_us_ds_dd_mean vs run
χ² / ndf 66.5 / 57
p0 2997 ± 2001
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean −2.394e+04
Std Dev 2.397e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

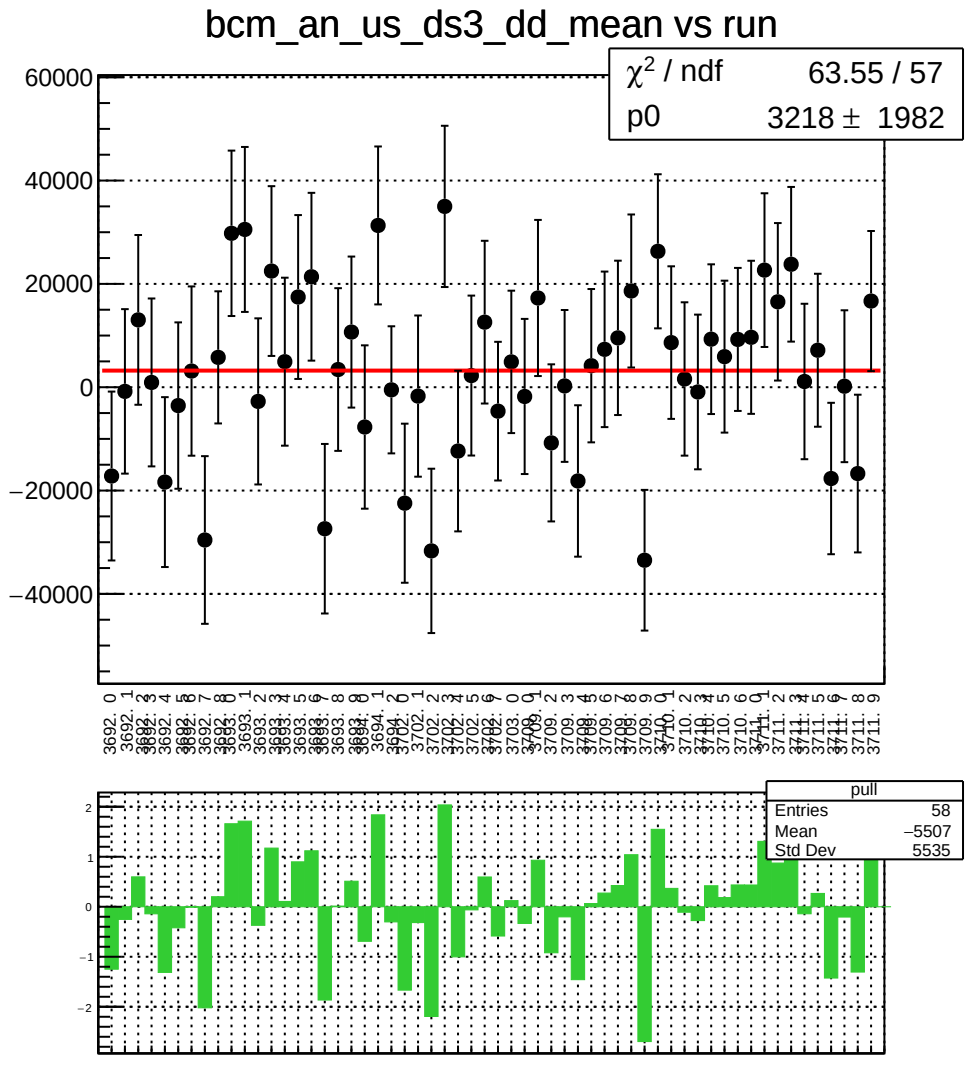

pull1D
Entries 58
Mean −5.018e−05
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

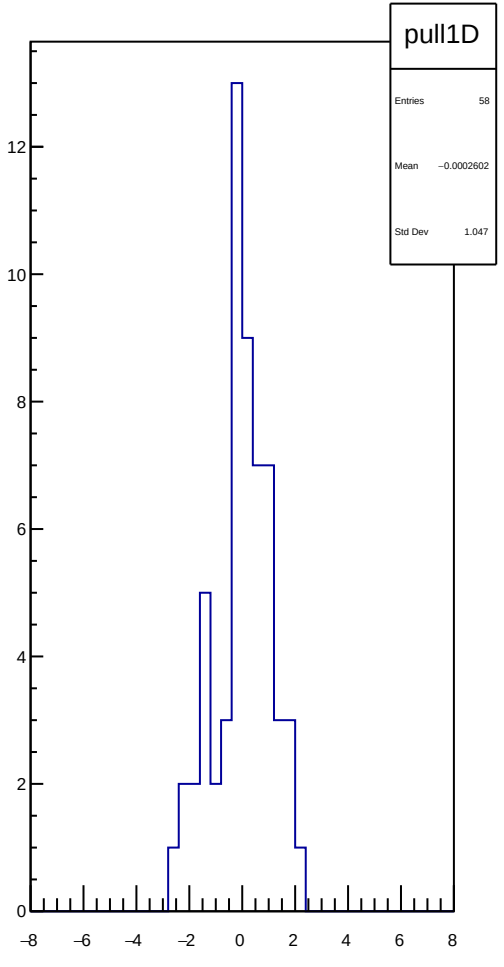

bcm_an_us_ds_dd_rms vs run
χ² / ndf 1557 / 57
p0 1475 ± 1.415
1600
1550
1500
1450
1400

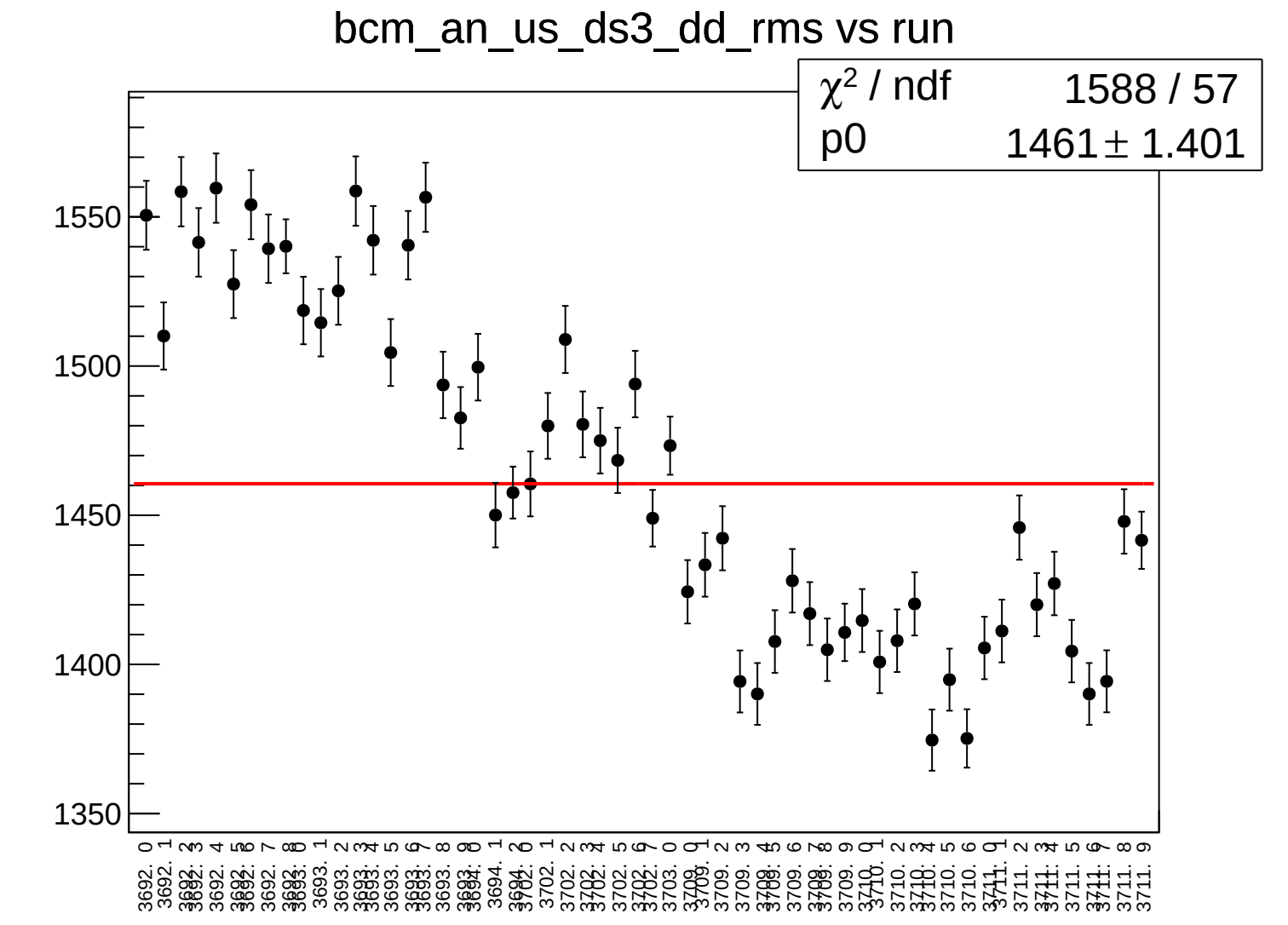

bcm_an_us_ds3_avg_mean vs run
χ^2 / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

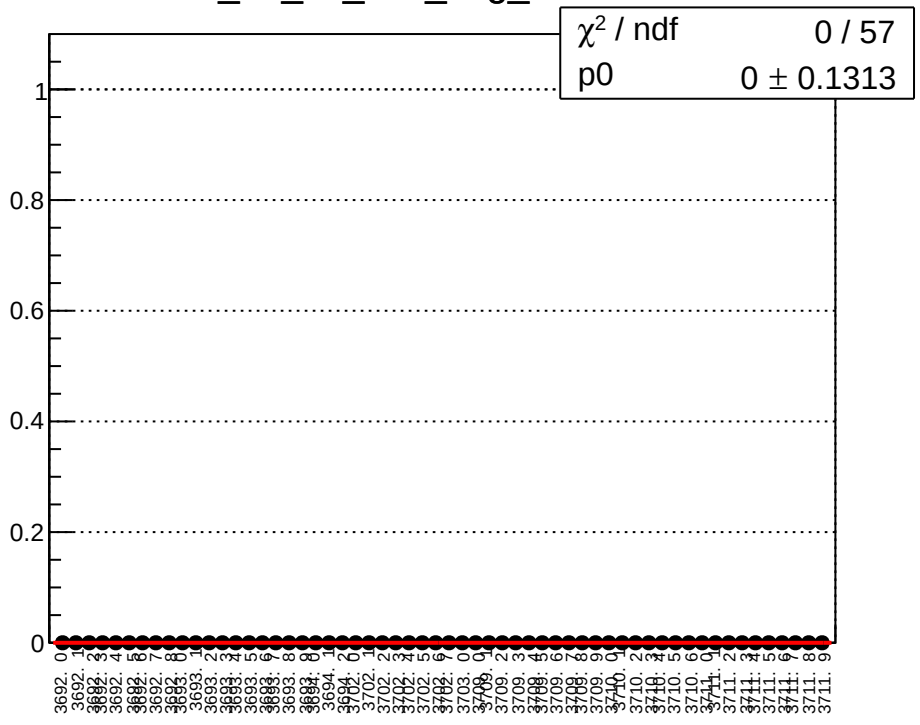

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

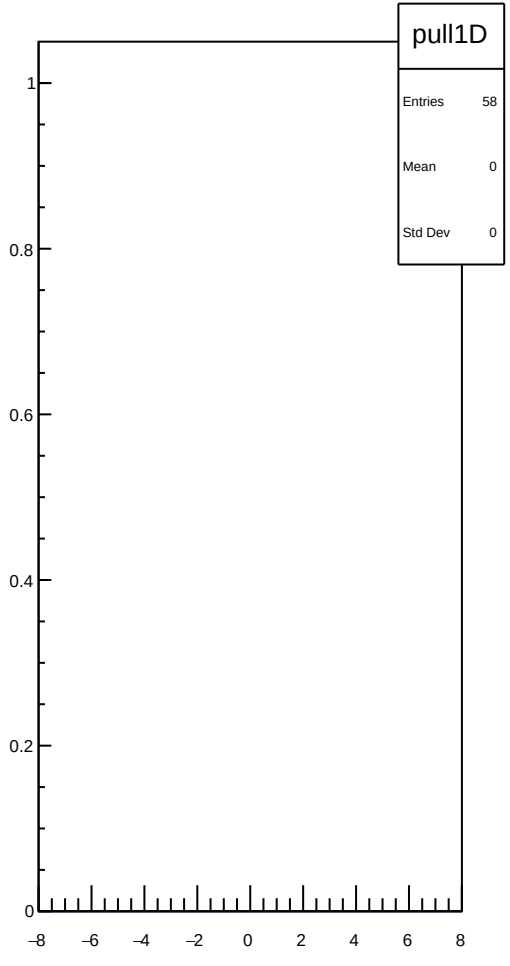

bcm_an_us_ds3_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

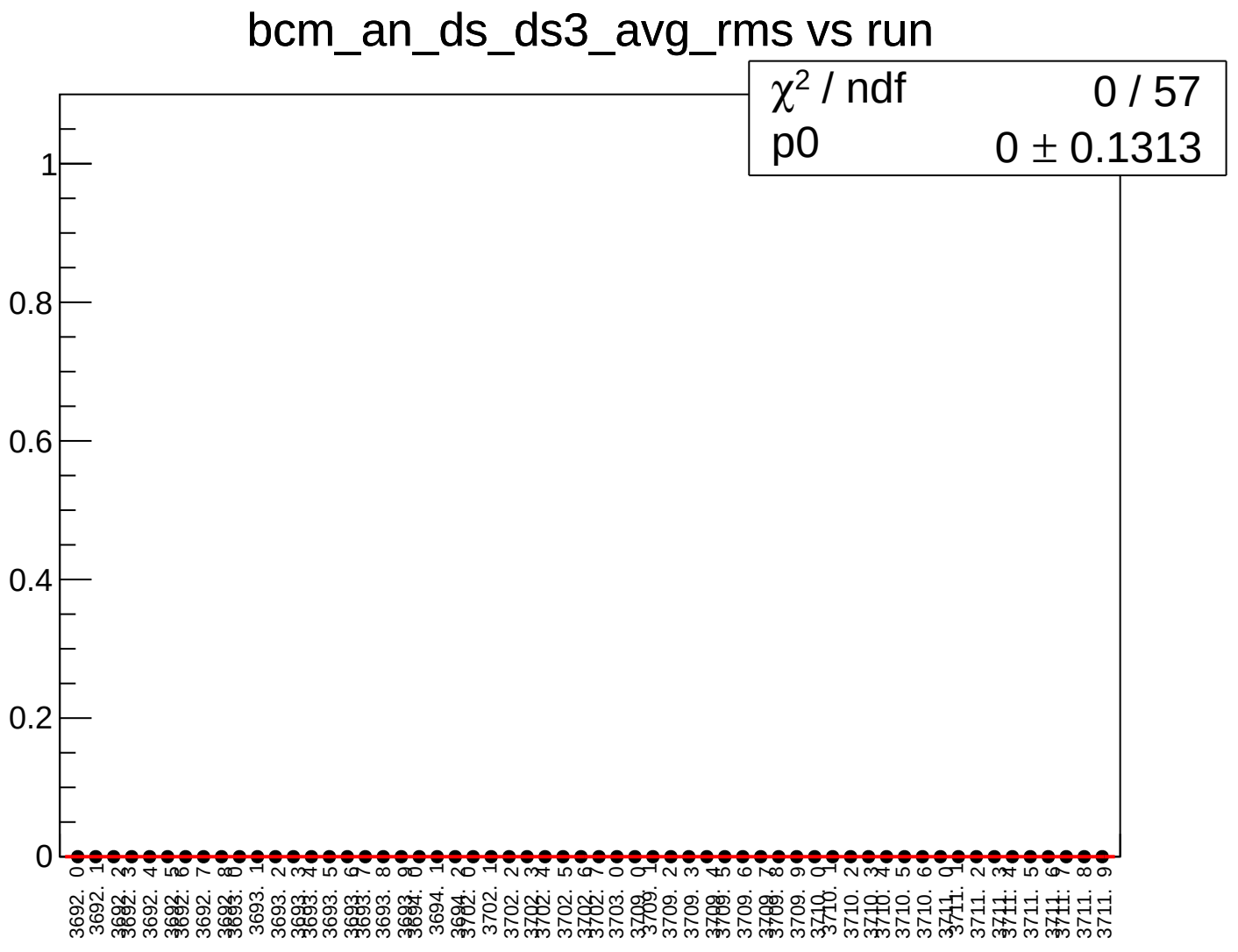

bcm_an_us_ds3_dd_mean vs run
χ² / ndf 63.55 / 57
p0 3218 ± 1982
pull
Entries 58
Mean −5507
Std Dev 5535

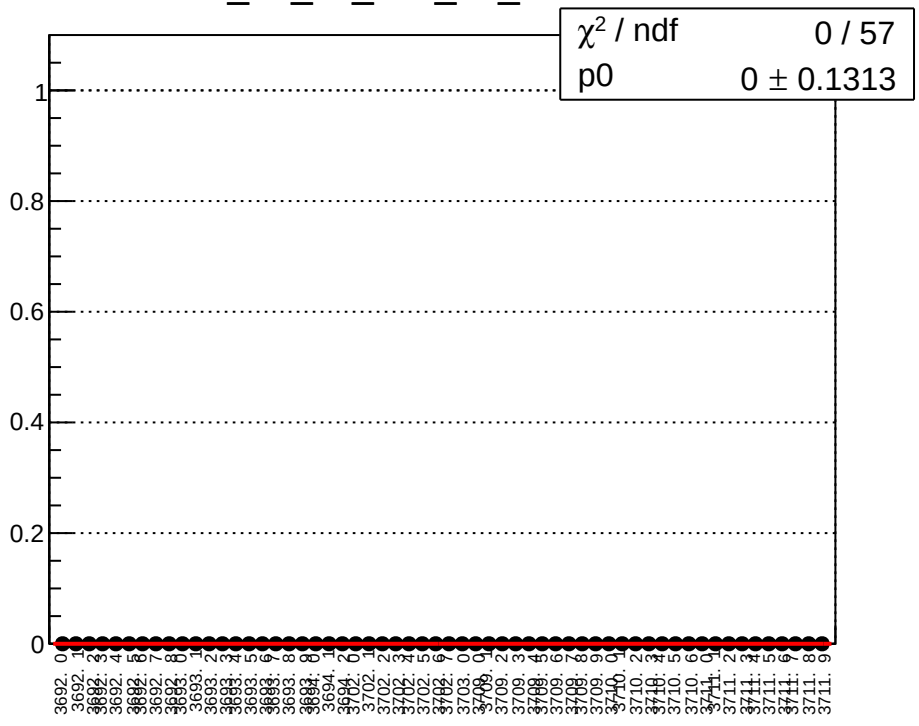

pull1D
Entries 58
Mean −0.0002602
Std Dev 1.047

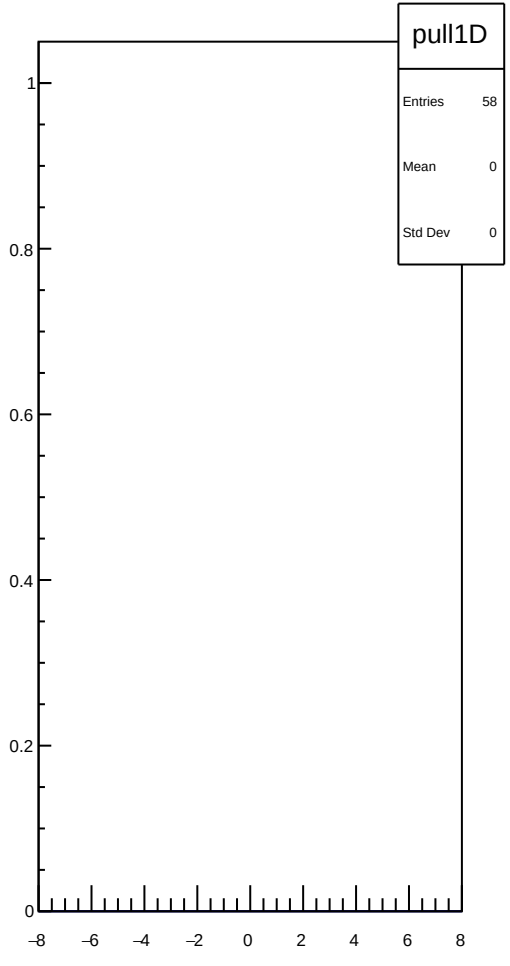

bcm_an_us_ds3_dd_rms vs run
χ² / ndf 1588 / 57
p0 1461 ± 1.401
1550
1500
1450
1400
1350

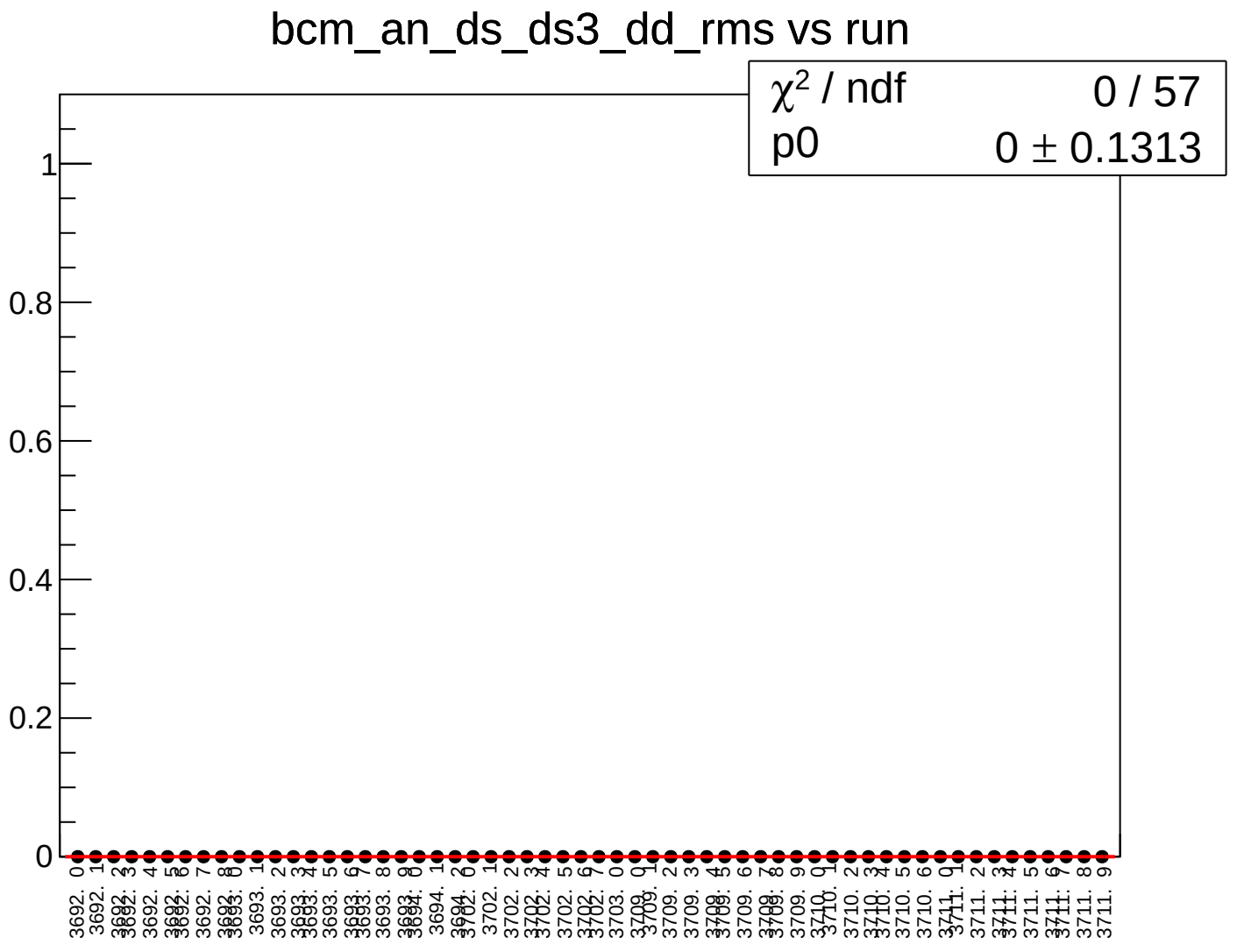

bcm_an_ds_ds3_avg_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

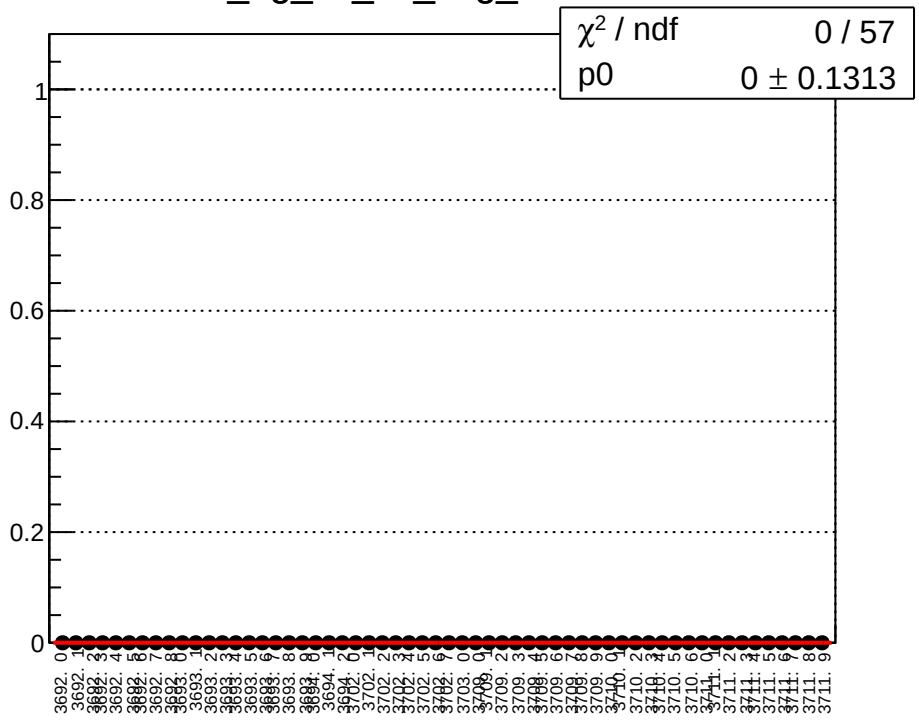

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

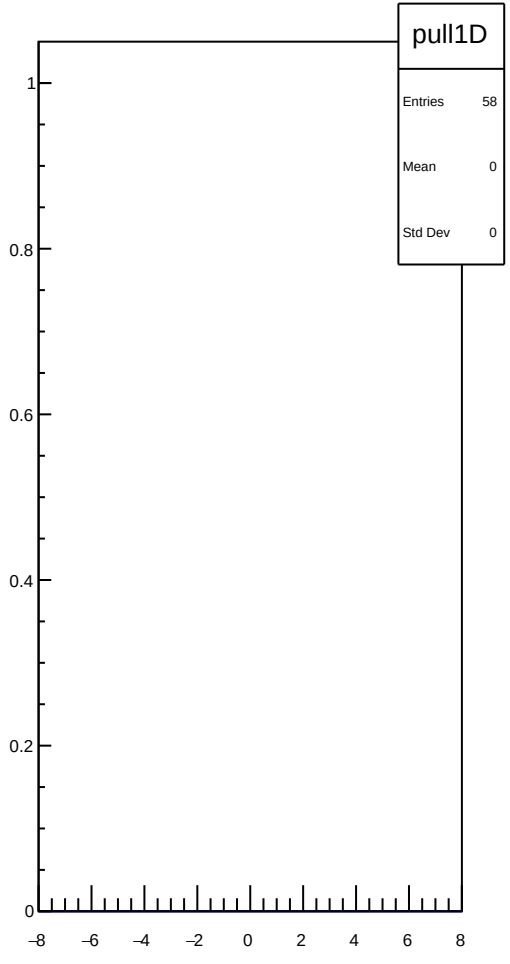

bcm_an_ds_ds3_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

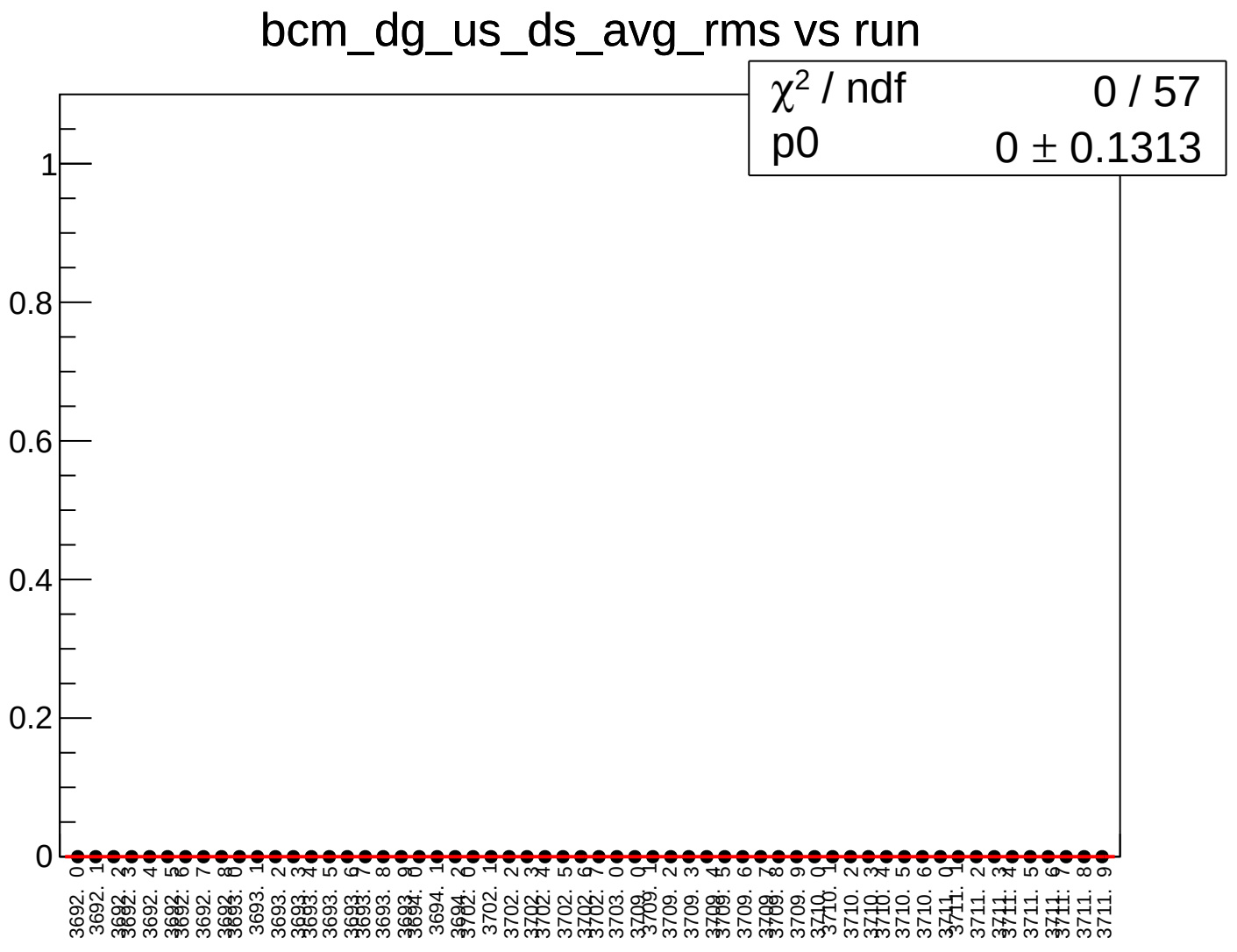

bcm_an_ds_ds3_dd_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

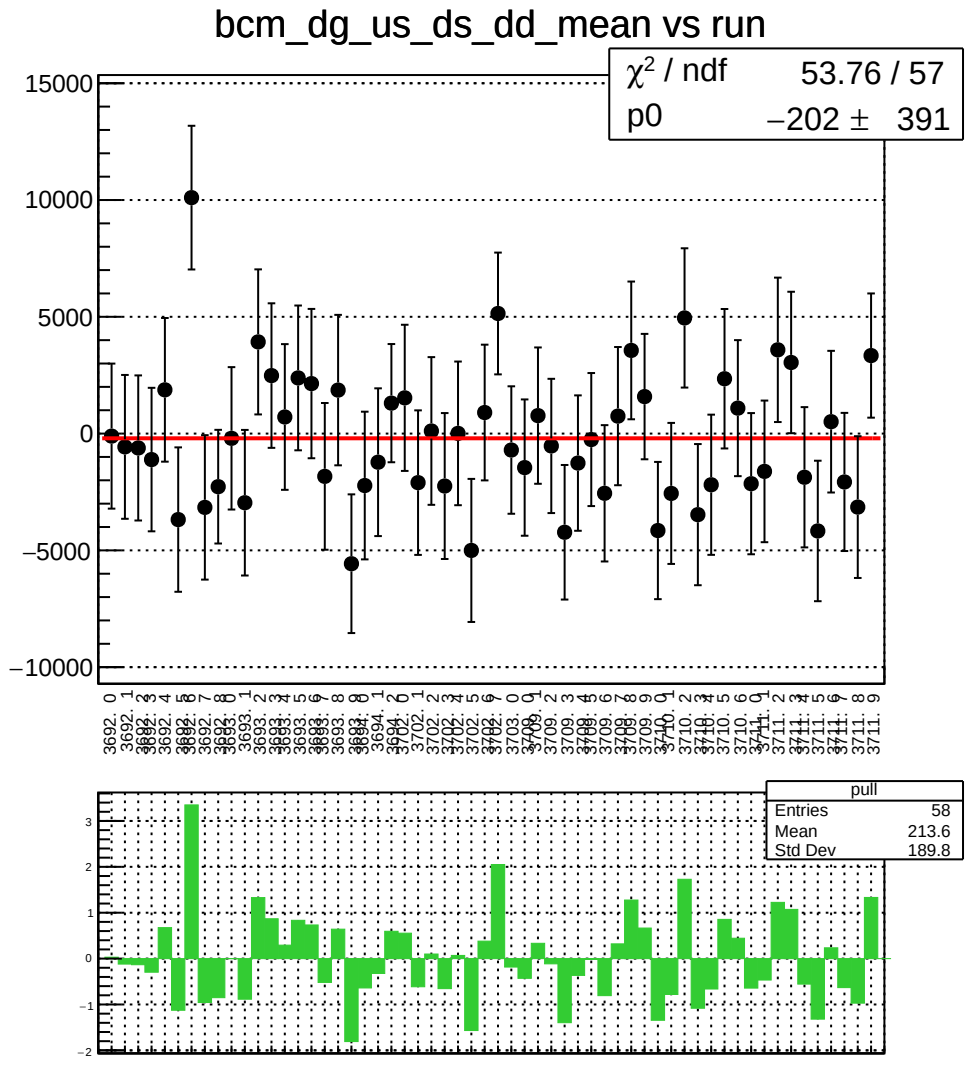

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

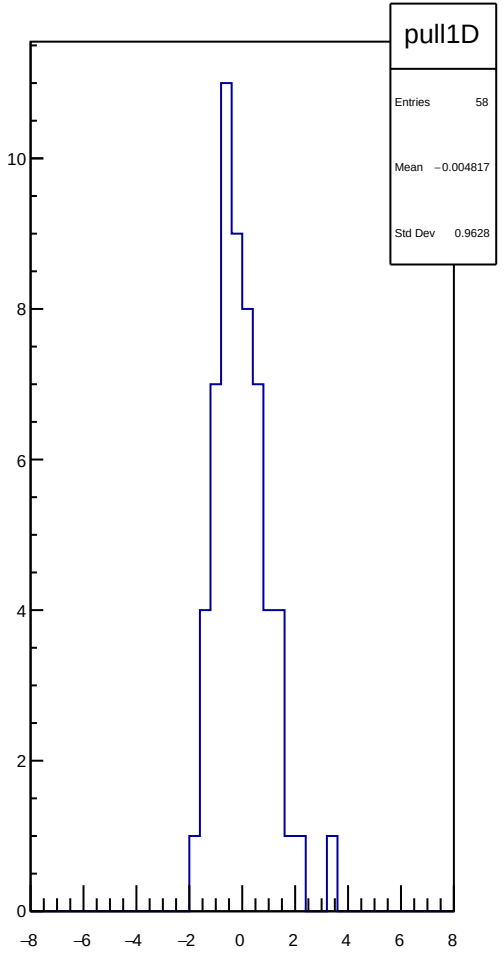

bcm_an_ds_ds3_dd_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

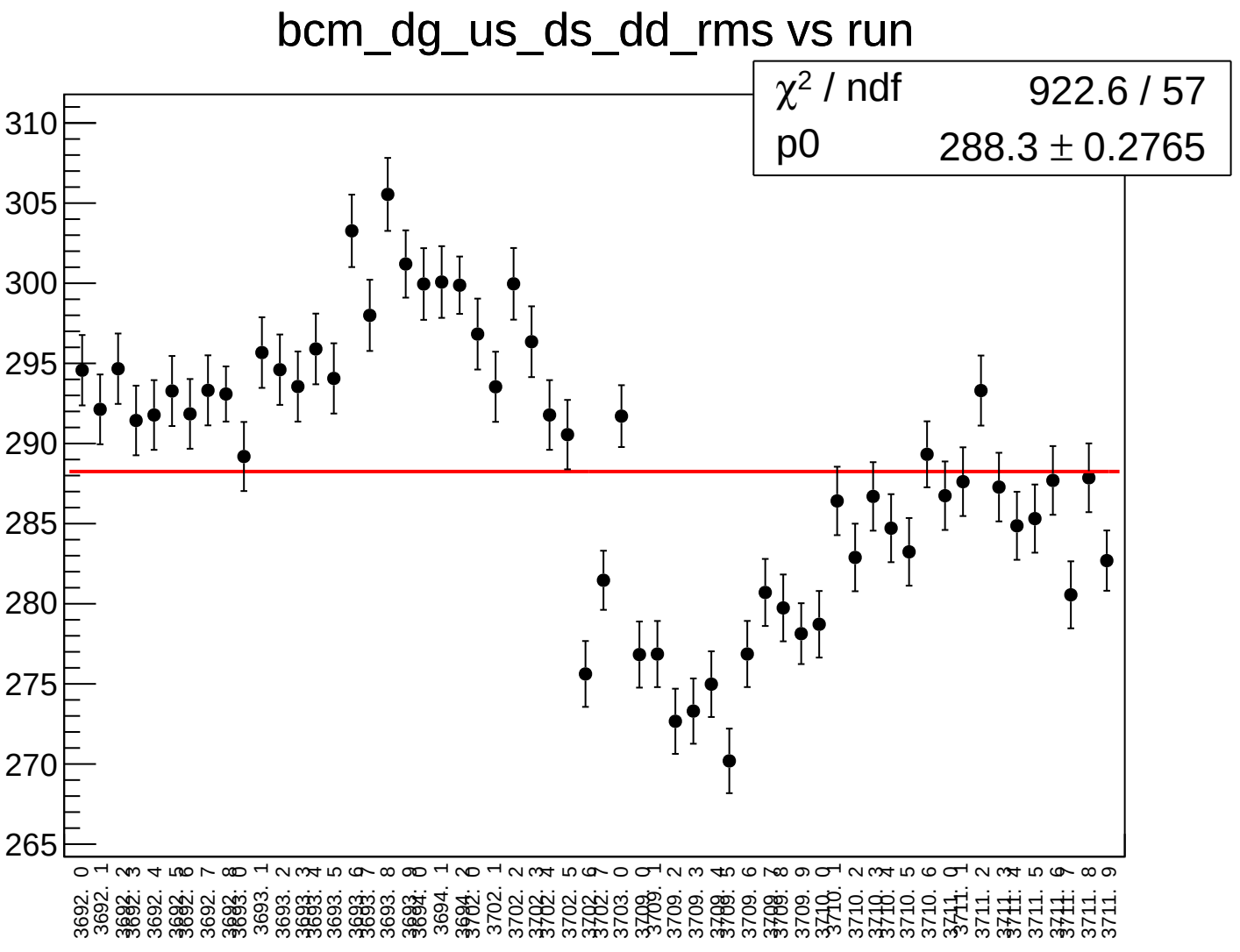

bcm_dg_us_ds_avg_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

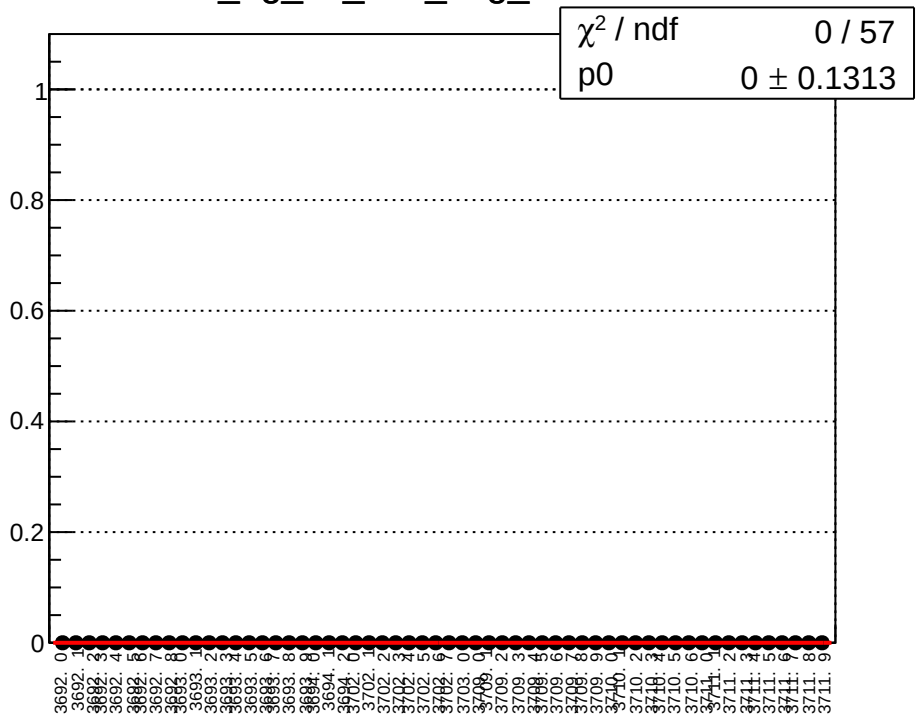

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

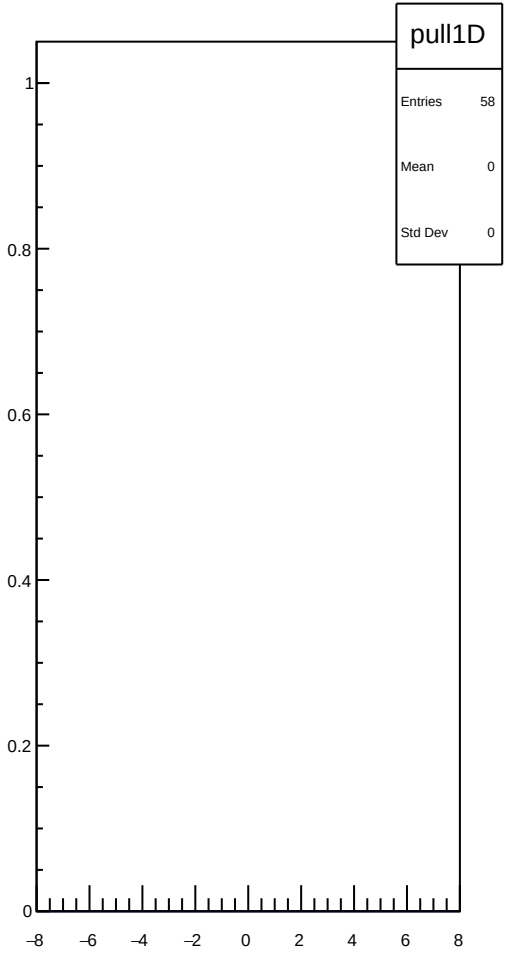

bcm_dg_us_ds_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

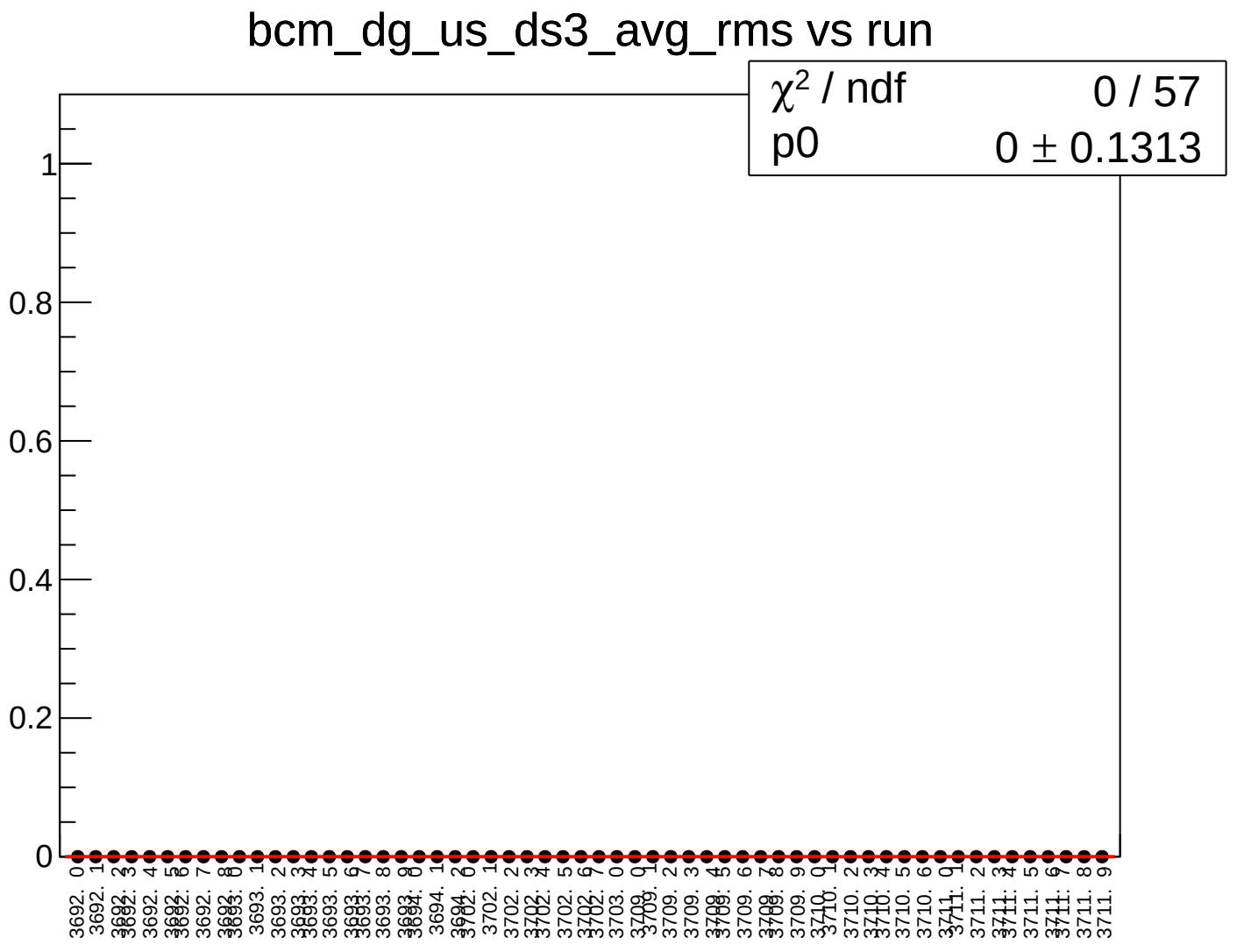

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 53.76 / 57
p0 −202 ± 391
pull
Entries 58
Mean 213.6
Std Dev 189.8

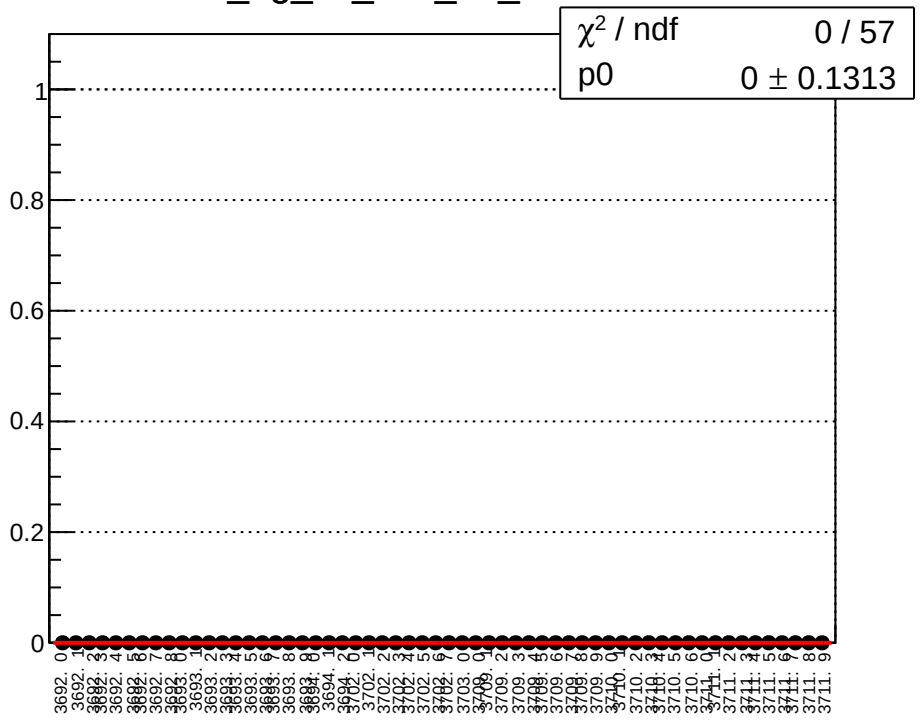

pull1D
Entries 58
Mean −0.004817
Std Dev 0.9628

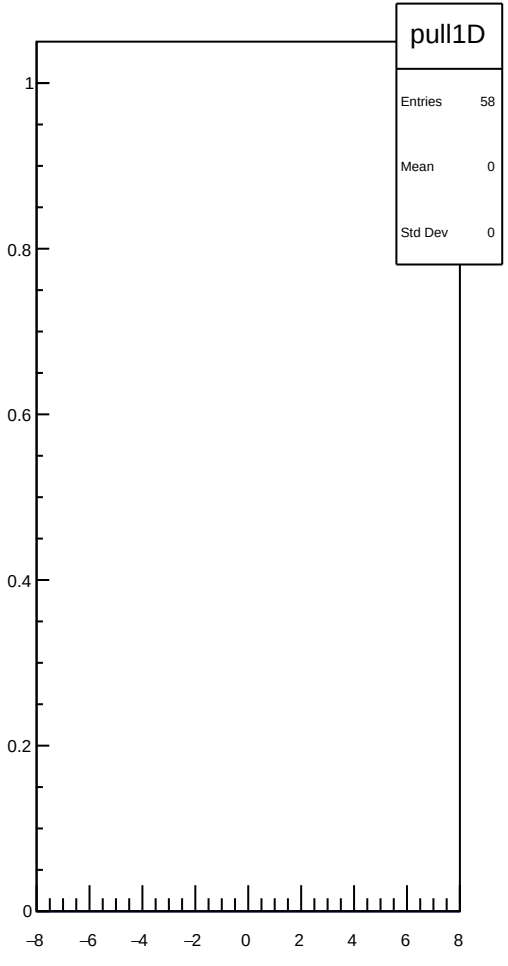

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 922.6 / 57
p0 288.3 ± 0.2765
310
305
300
295
290
285
280
275
270
265
3692. 0
3692. 1
3692. 2
3692. 3
3692. 4
3692. 5
3692. 6
3692. 7
3692. 8
3693. 0
3693. 1
3693. 2
3693. 3
3693. 4
3693. 5
3693. 6
3693. 7
3693. 8
3693. 9
3694. 0
3694. 1
3694. 2
3694. 6
3702. 1
3702. 2
3702. 3
3702. 4
3702. 5
3702. 6
3702. 7
3703. 0
3709. 0
3709. 1
3709. 2
3709. 3
3709. 4
3709. 5
3709. 6
3709. 7
3709. 8
3709. 9
3710. 0
3710. 1
3710. 2
3710. 3
3710. 4
3710. 5
3710. 6
3711. 0
3711. 1
3711. 2
3711. 3
3711. 4
3711. 5
3711. 6
3711. 7
3711. 8
3711. 9

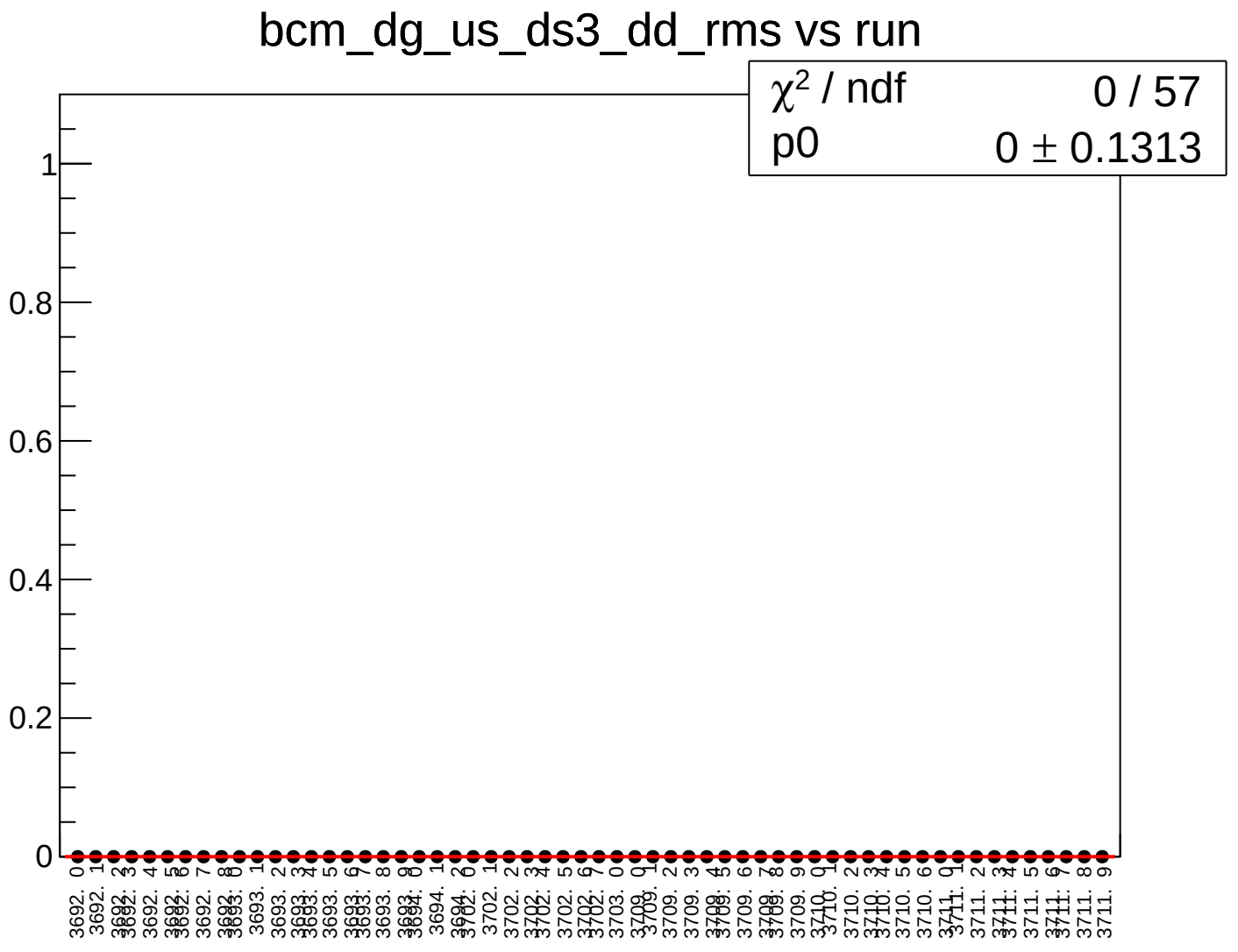

bcm_dg_us_ds3_avg_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

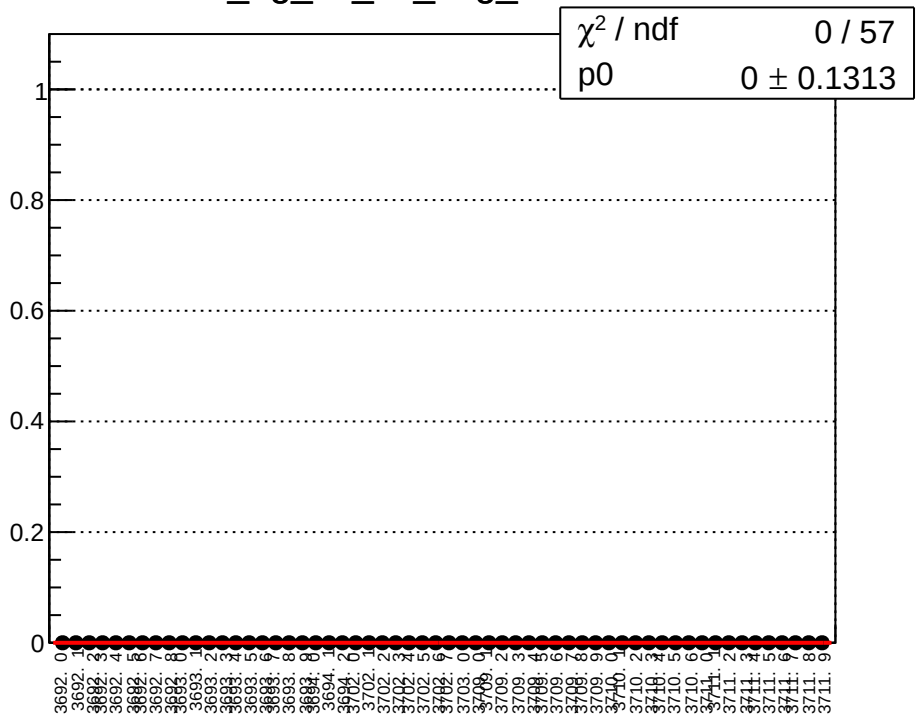

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

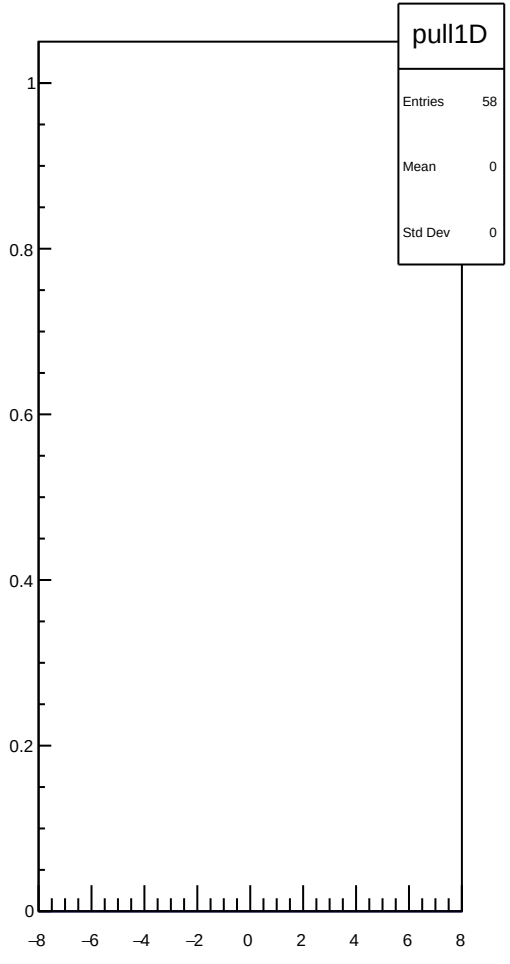

bcm_dg_us_ds3_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

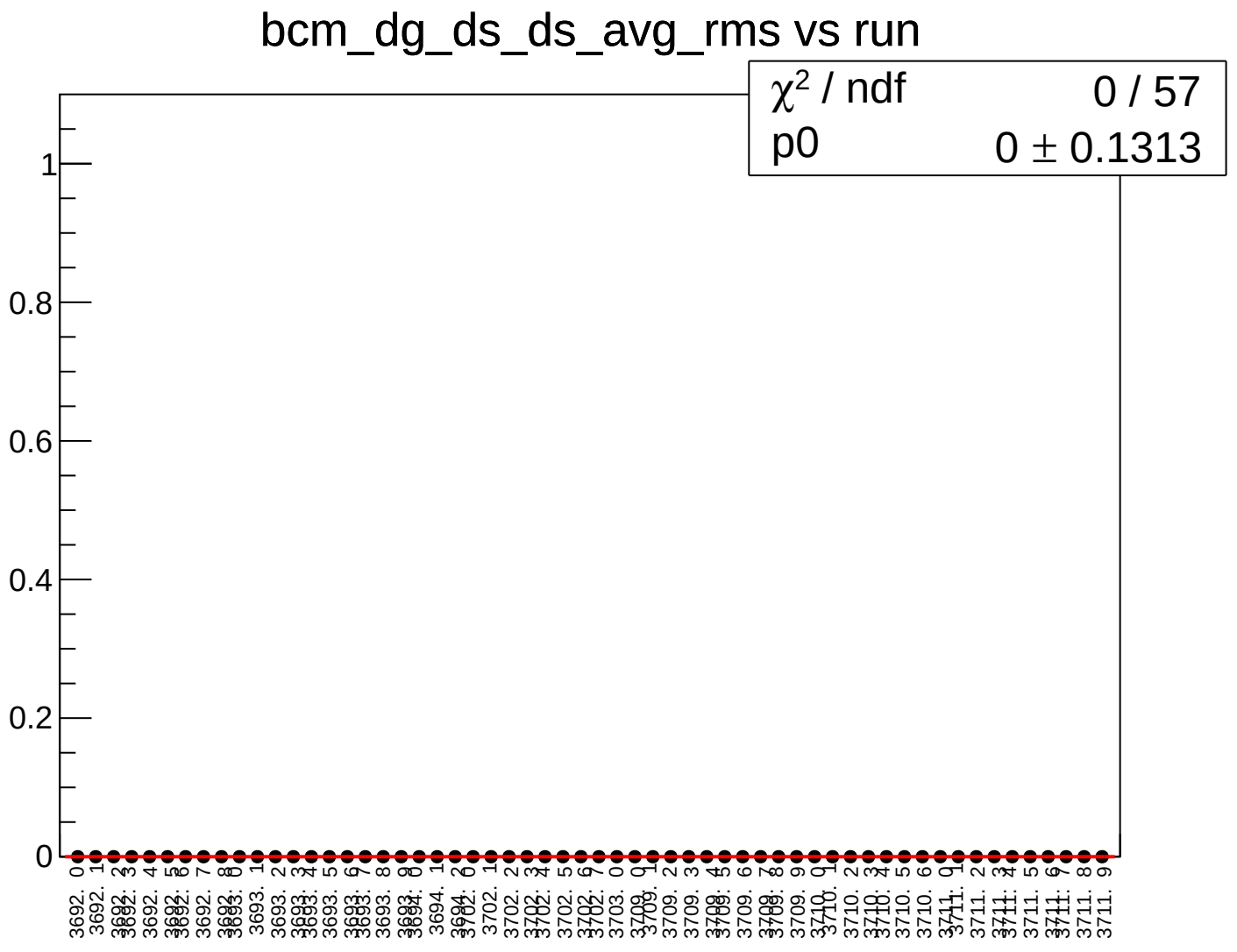

bcm_dg_us_ds3_dd_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

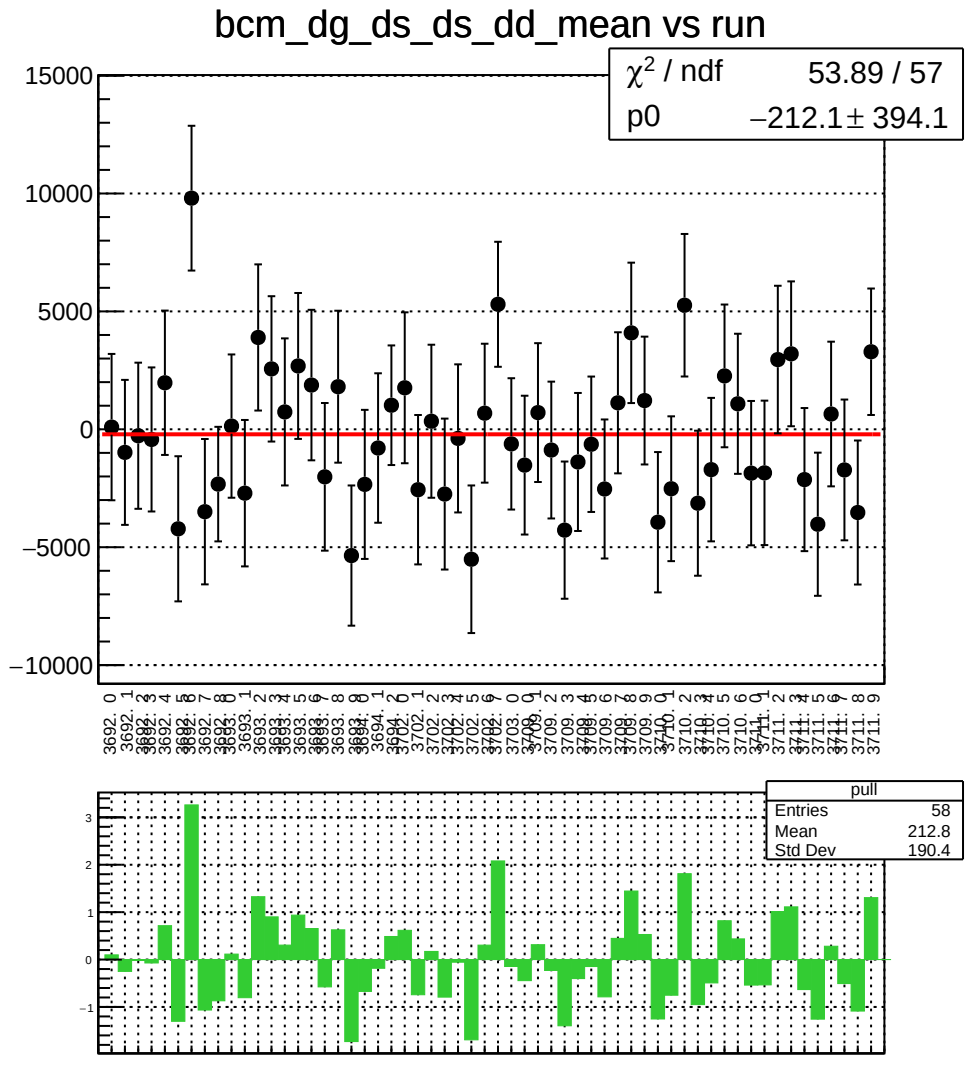

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

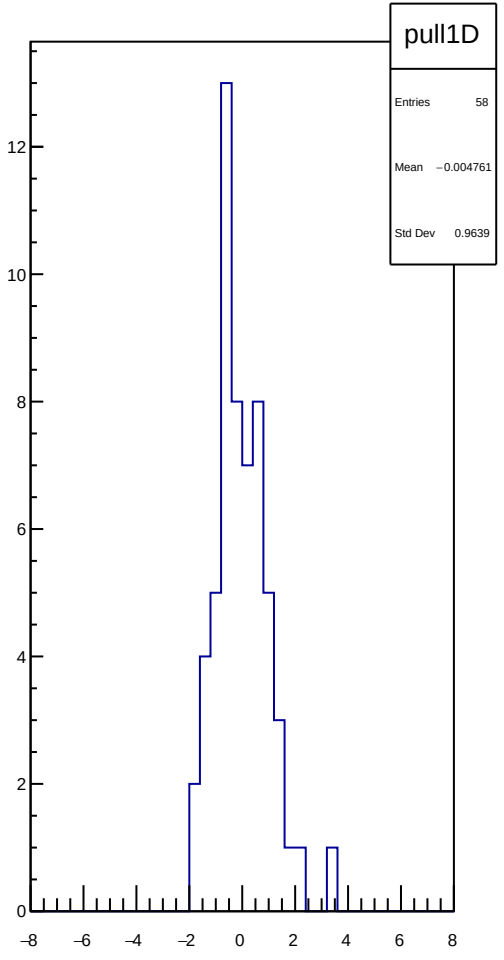

bcm_dg_us_ds3_dd_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

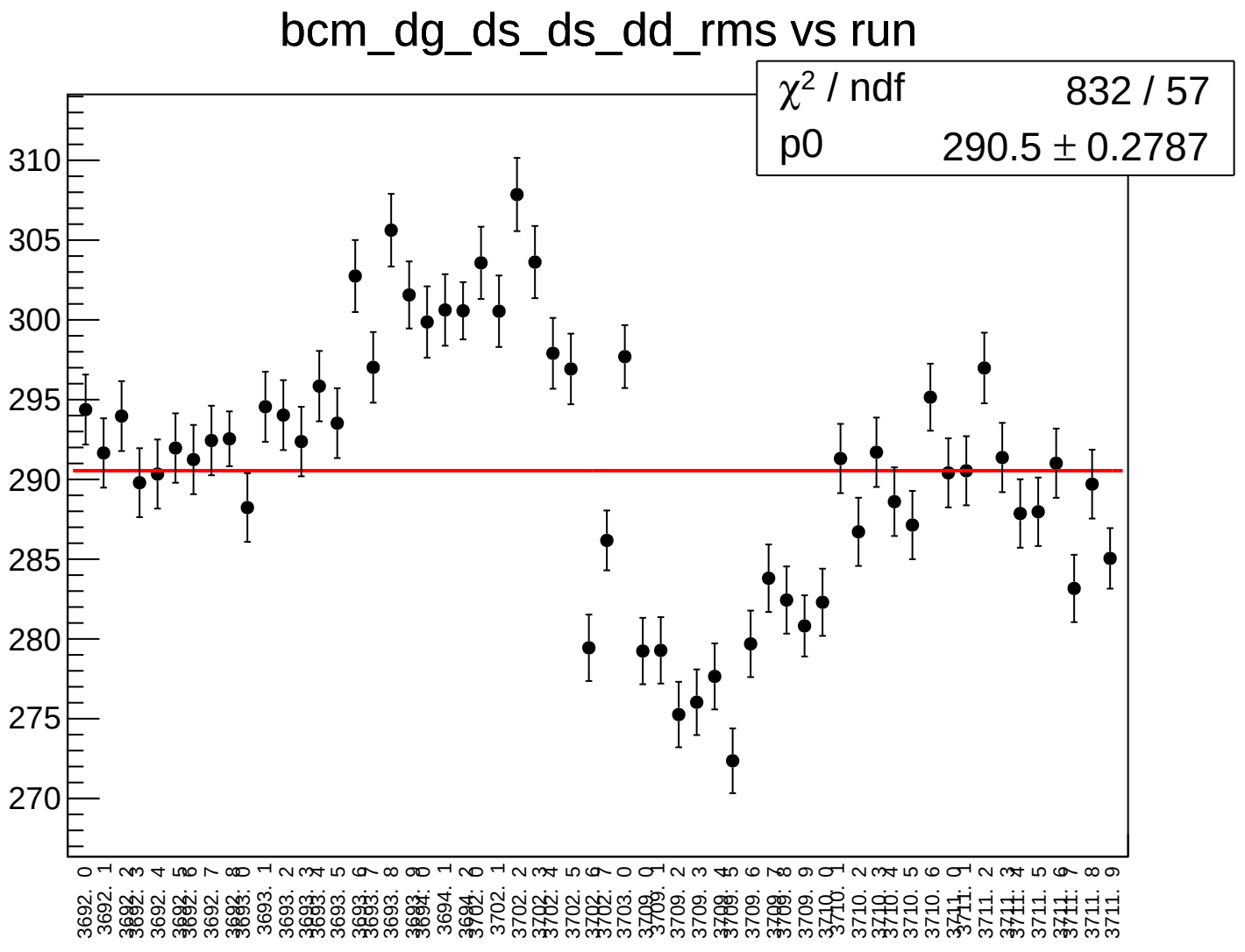

bcm_dg_ds_ds_avg_mean vs run
χ^2 / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

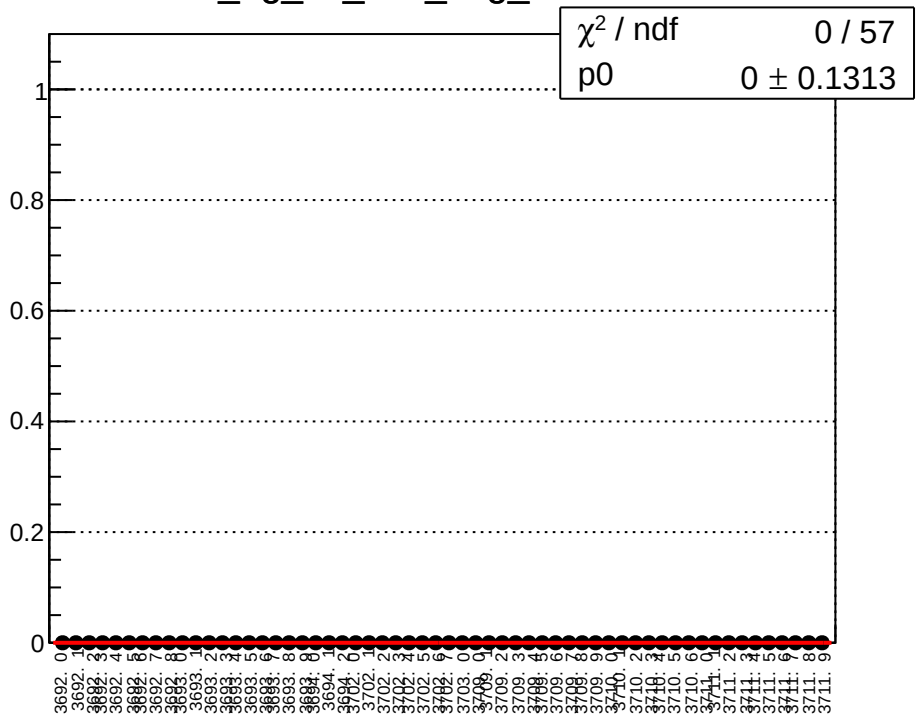

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

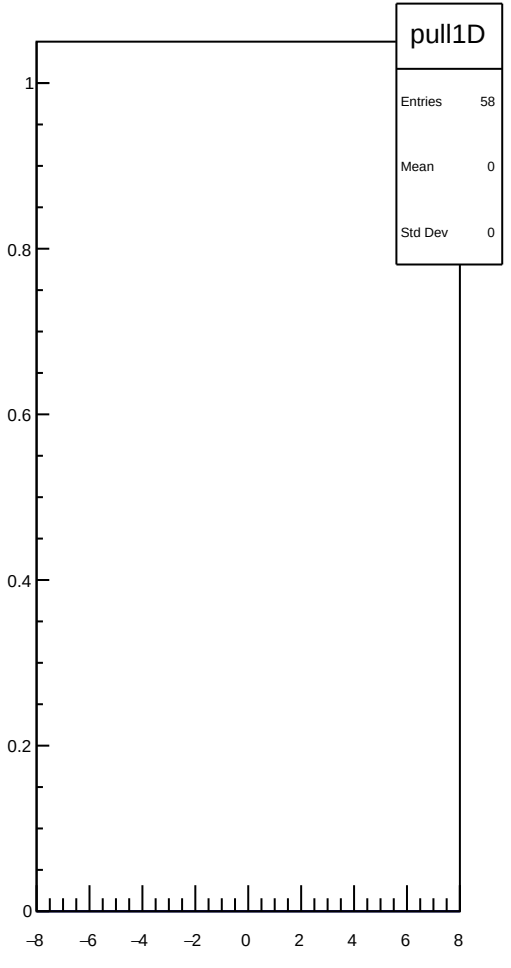

bcm_dg_ds_ds_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

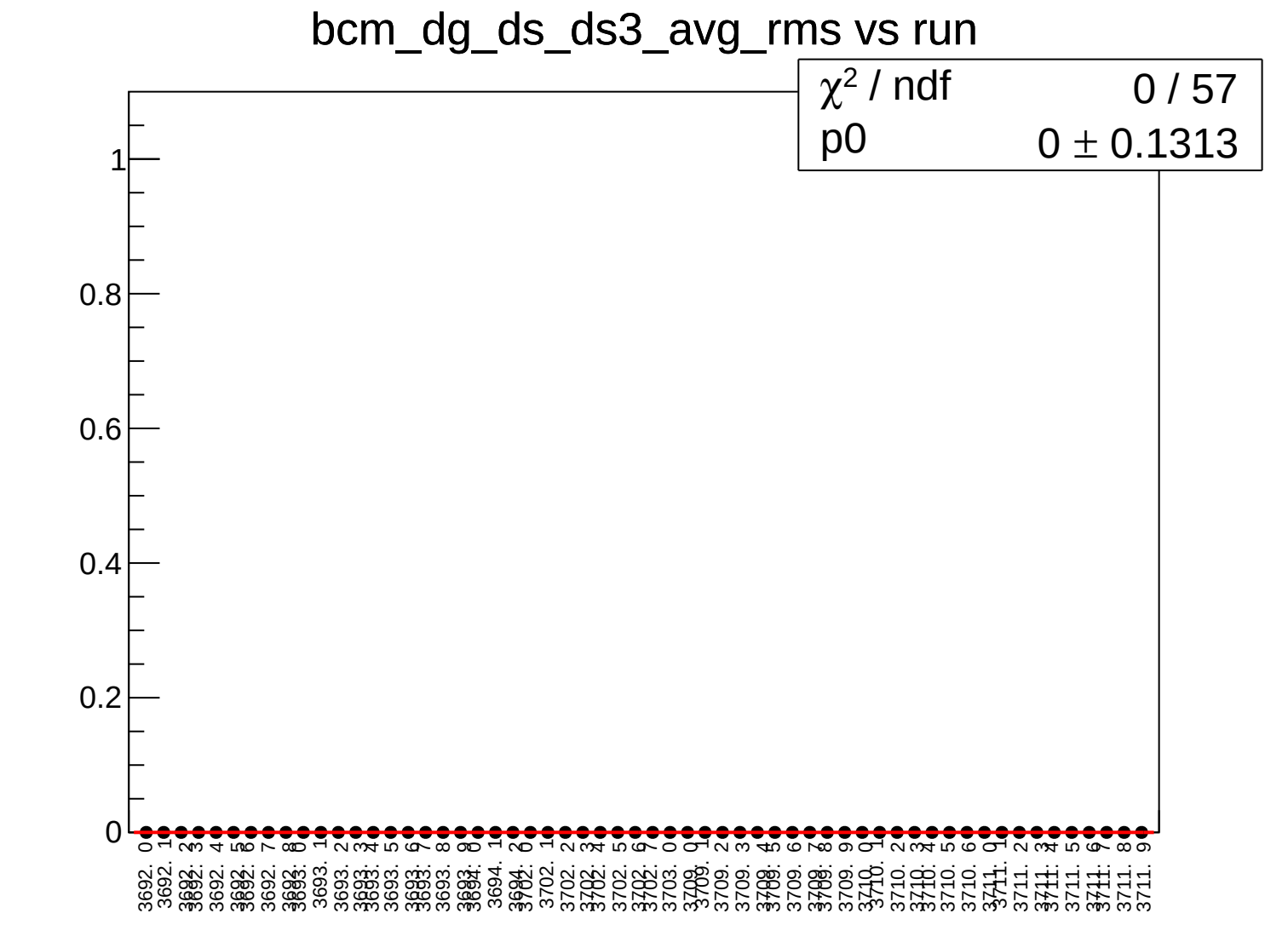

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 53.89 / 57
p0 −212.1 ± 394.1
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 212.8
Std Dev 190.4
3
2
1
0
−1

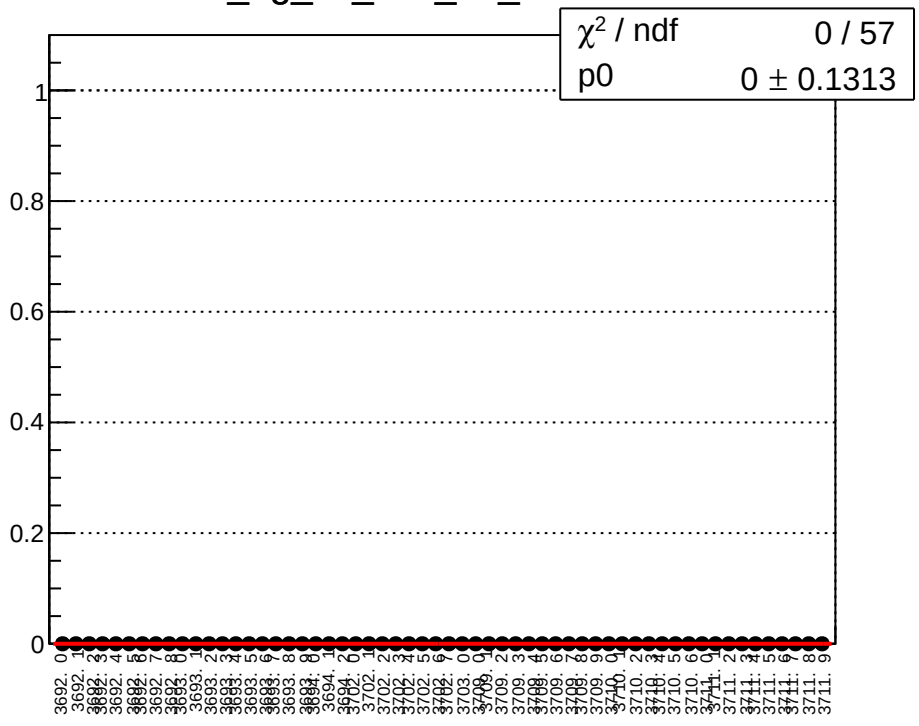

pull1D
Entries 58
Mean −0.004761
Std Dev 0.9639
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

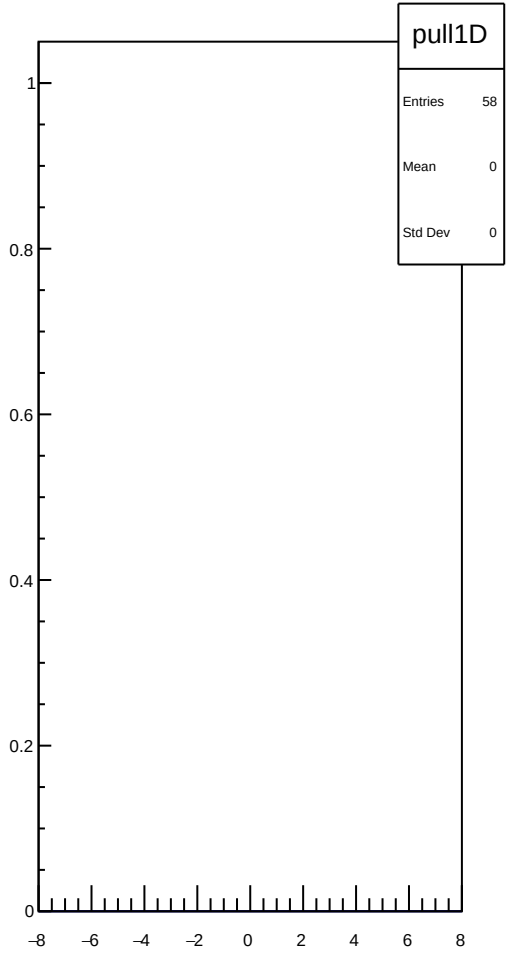

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 832 / 57
p0 290.5 ± 0.2787
310
305
300
295
290
285
280
275
270

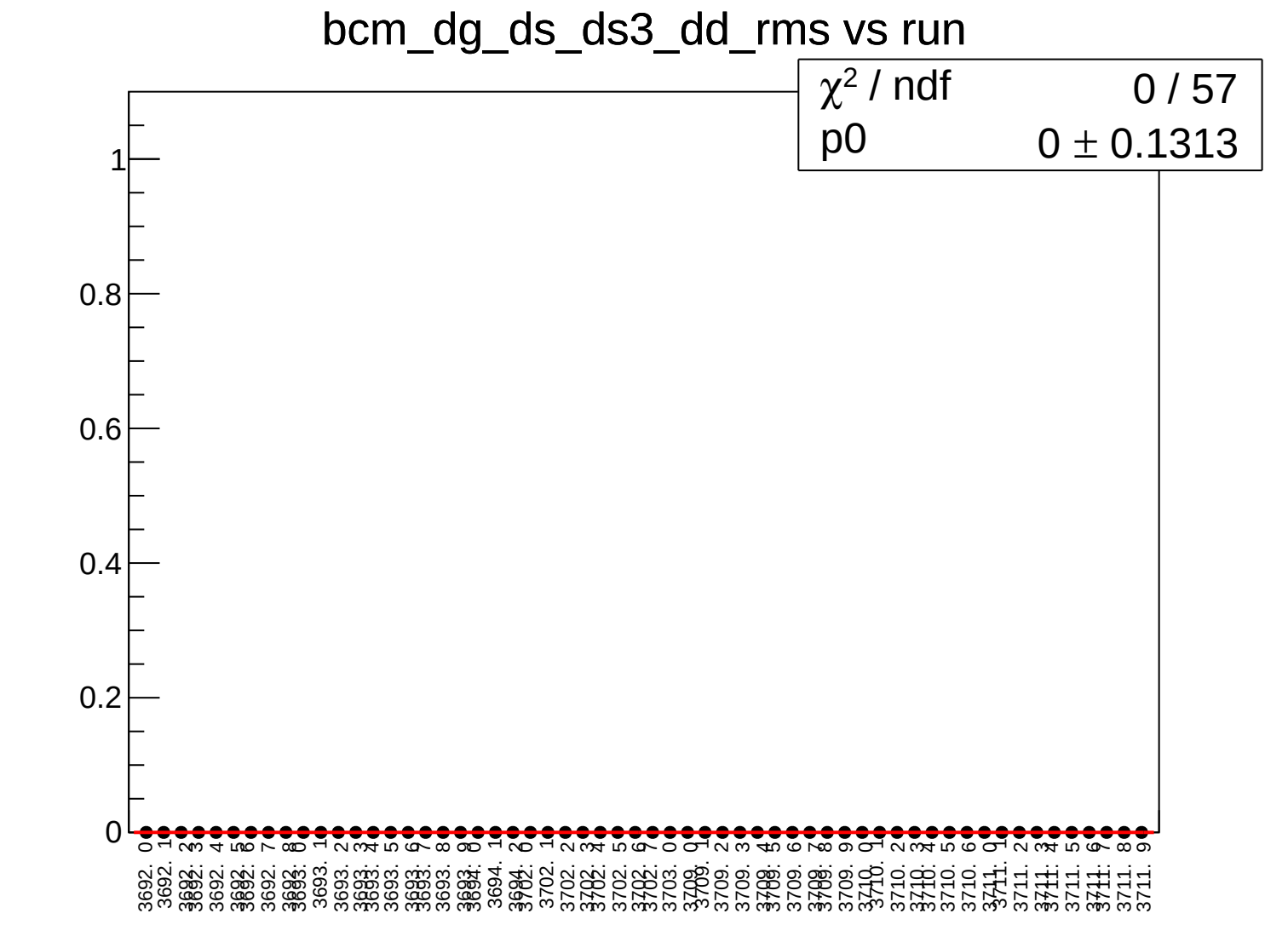

bcm_dg_ds_ds3_avg_mean vs run
χ^2 / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

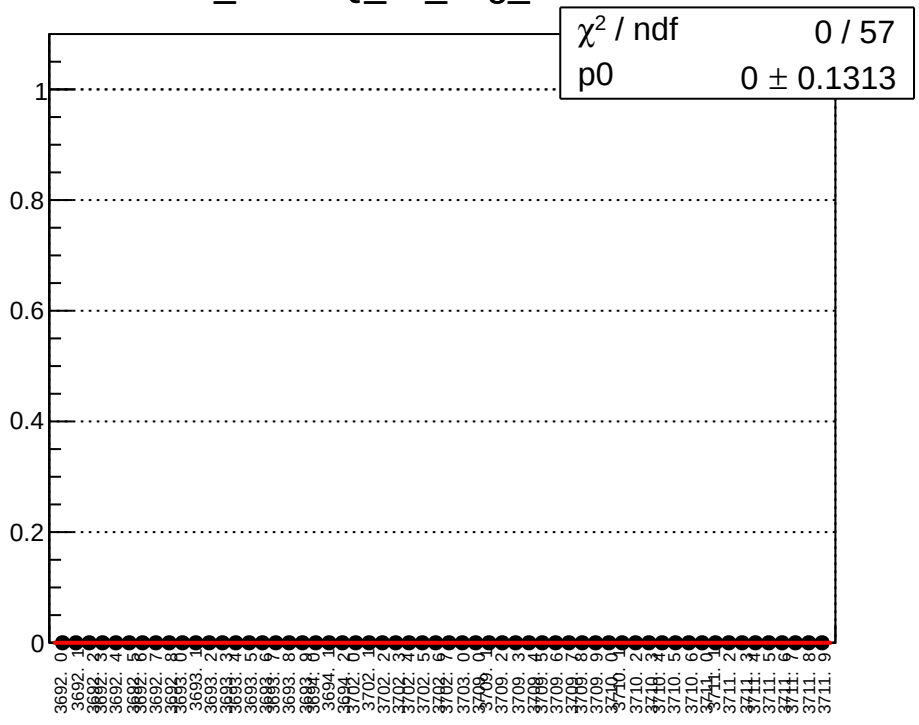

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

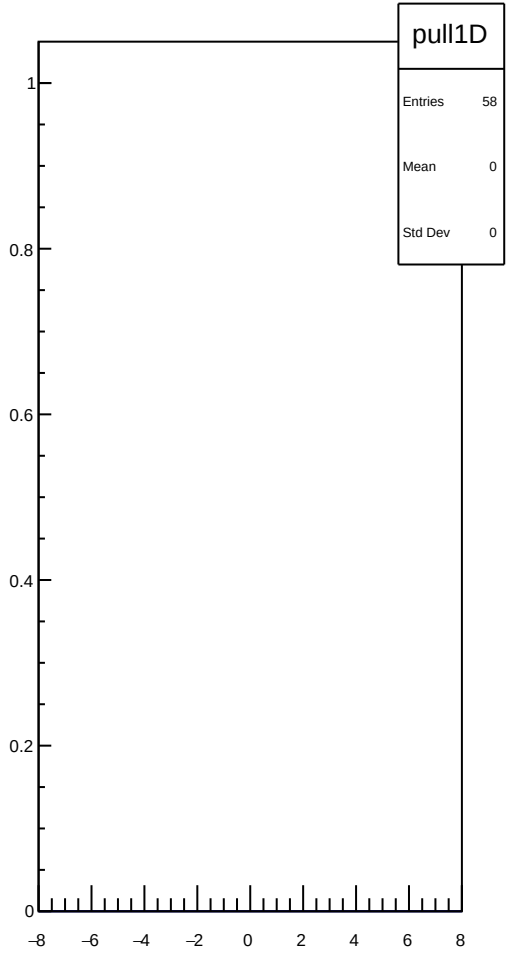

bcm_dg_ds_ds3_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

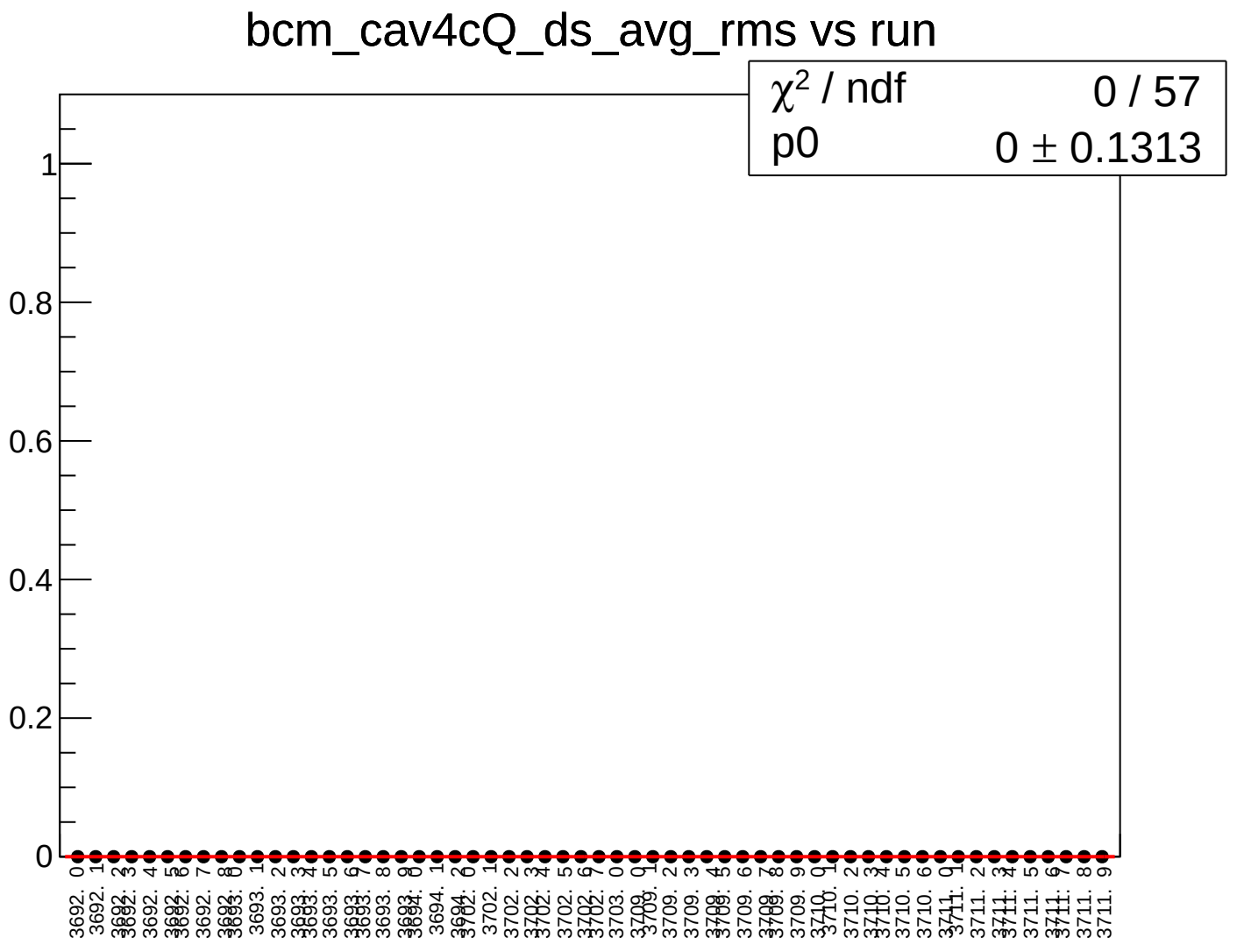

bcm_dg_ds_ds3_dd_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

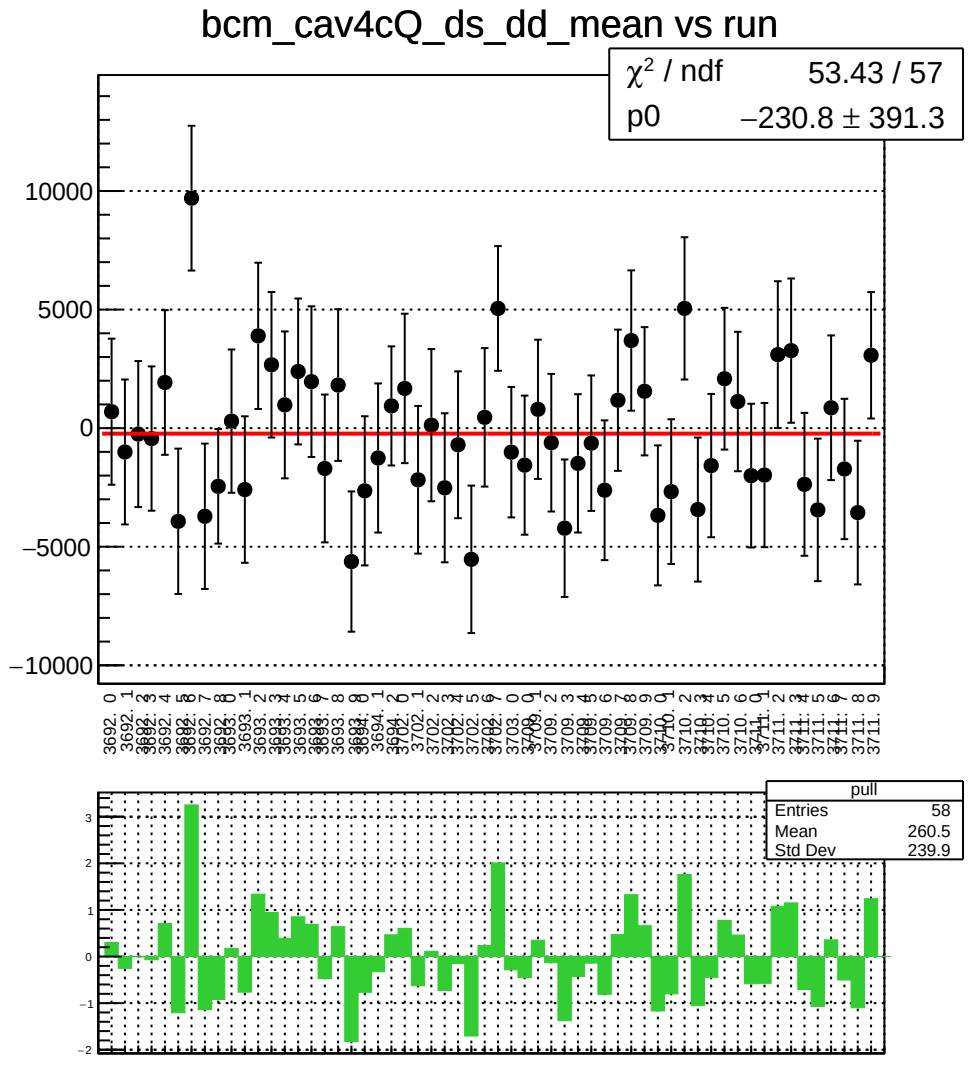

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

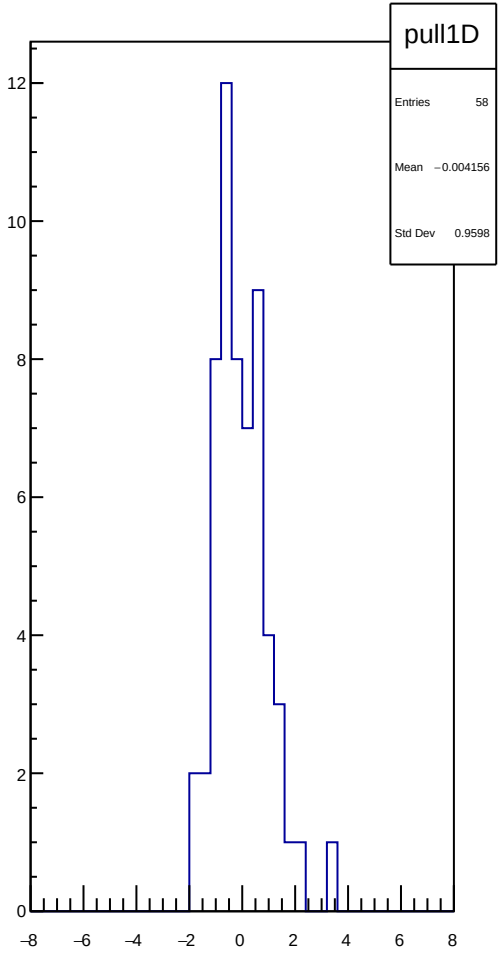

bcm_dg_ds_ds3_dd_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

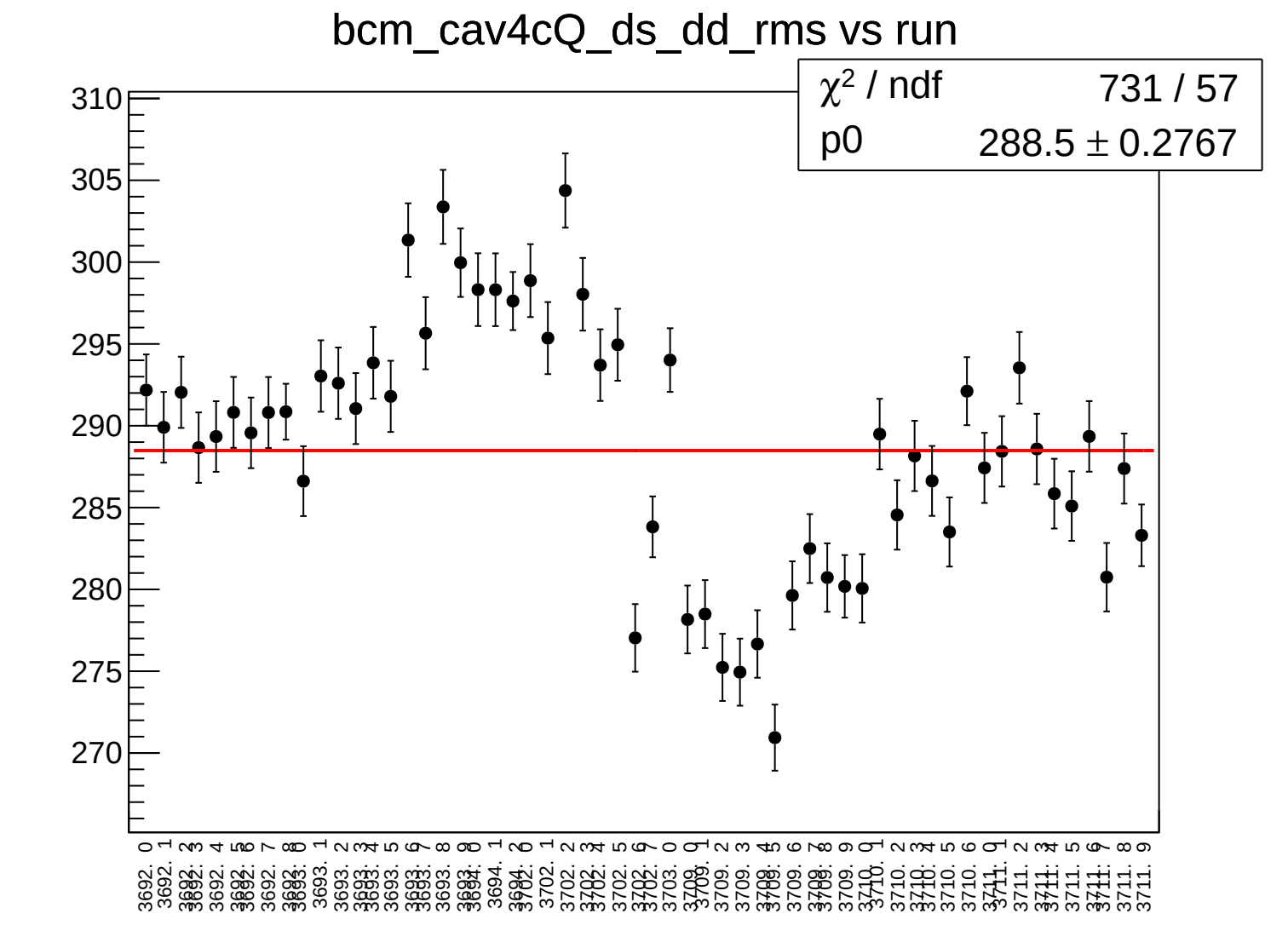

bcm_cav4cQ_ds_avg_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

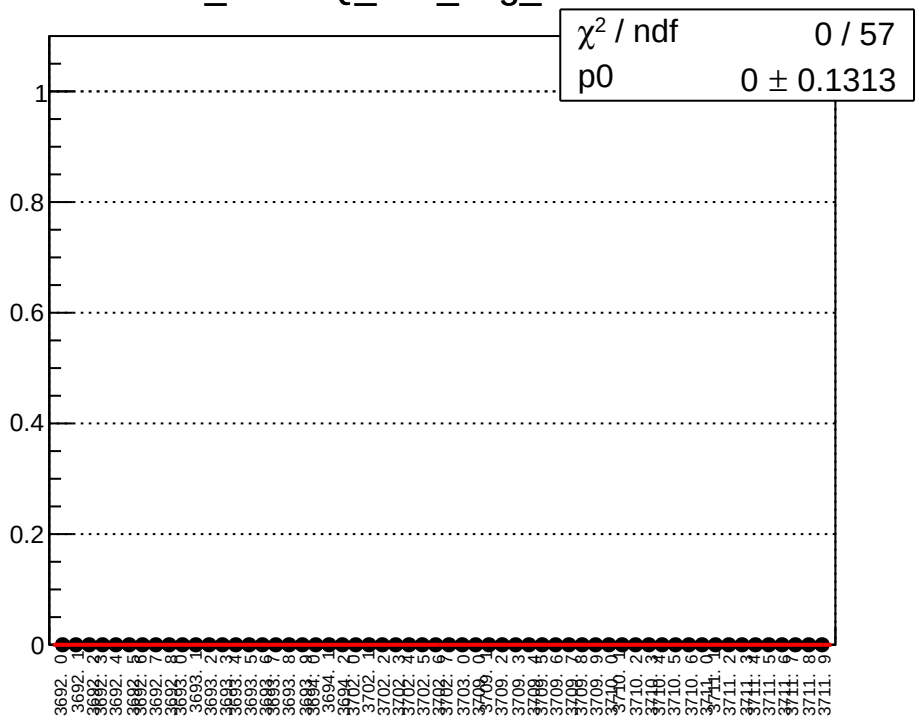

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

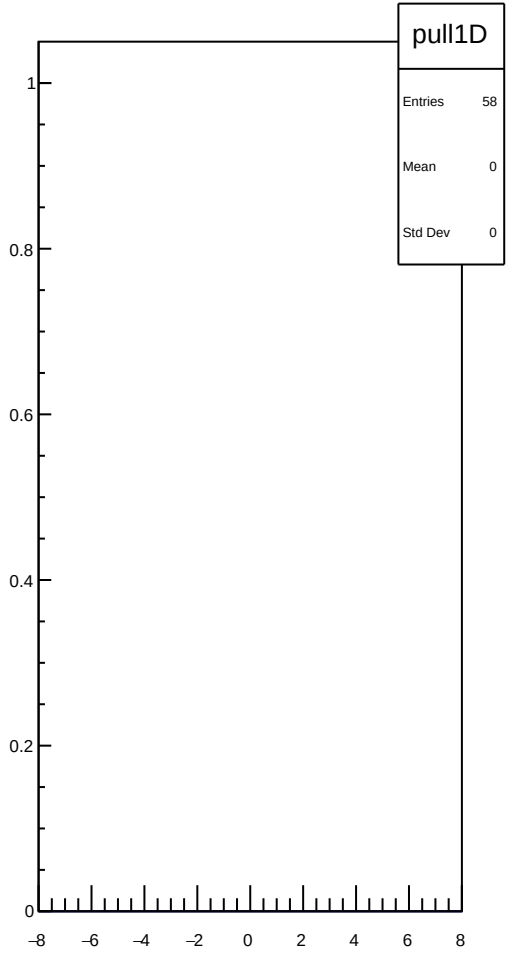

bcm_cav4cQ_ds_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

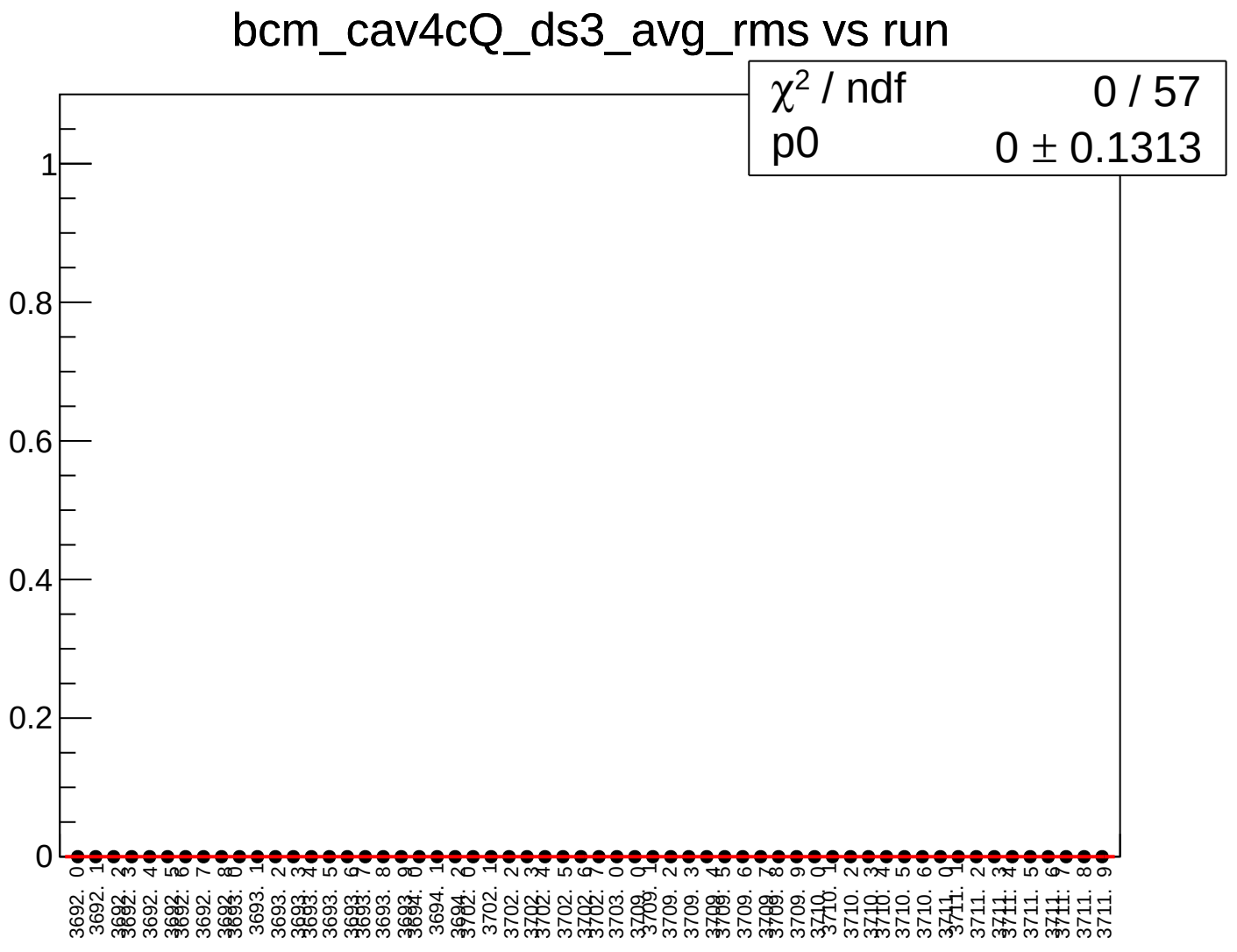

bcm_cav4cQ_ds_dd_mean vs run
χ² / ndf 53.43 / 57
p0 −230.8 ± 391.3
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 260.5
Std Dev 239.9
3
2
1
0
−1
−2

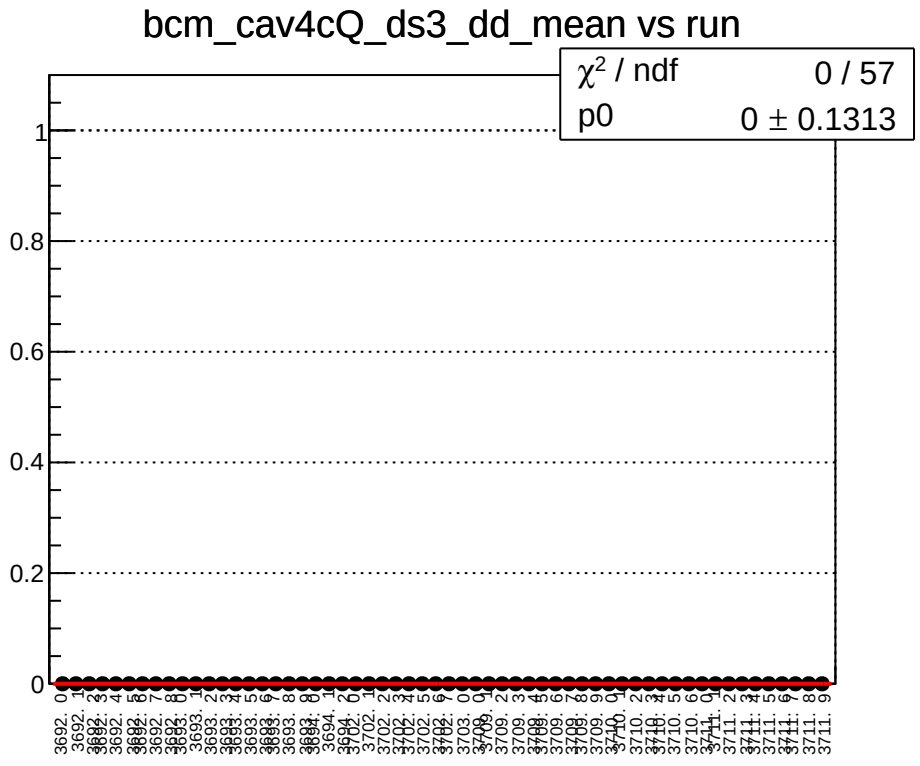

pull1D
Entries 58
Mean −0.004156
Std Dev 0.9598
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

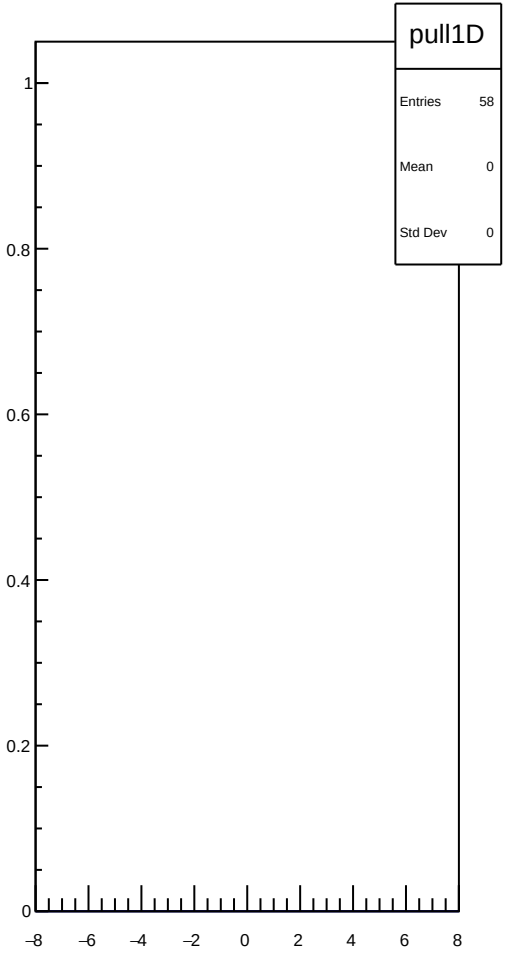

bcm_cav4cQ_ds_dd_rms vs run
χ² / ndf 731 / 57
p0 288.5 ± 0.2767
310
305
300
295
290
285
280
275
270

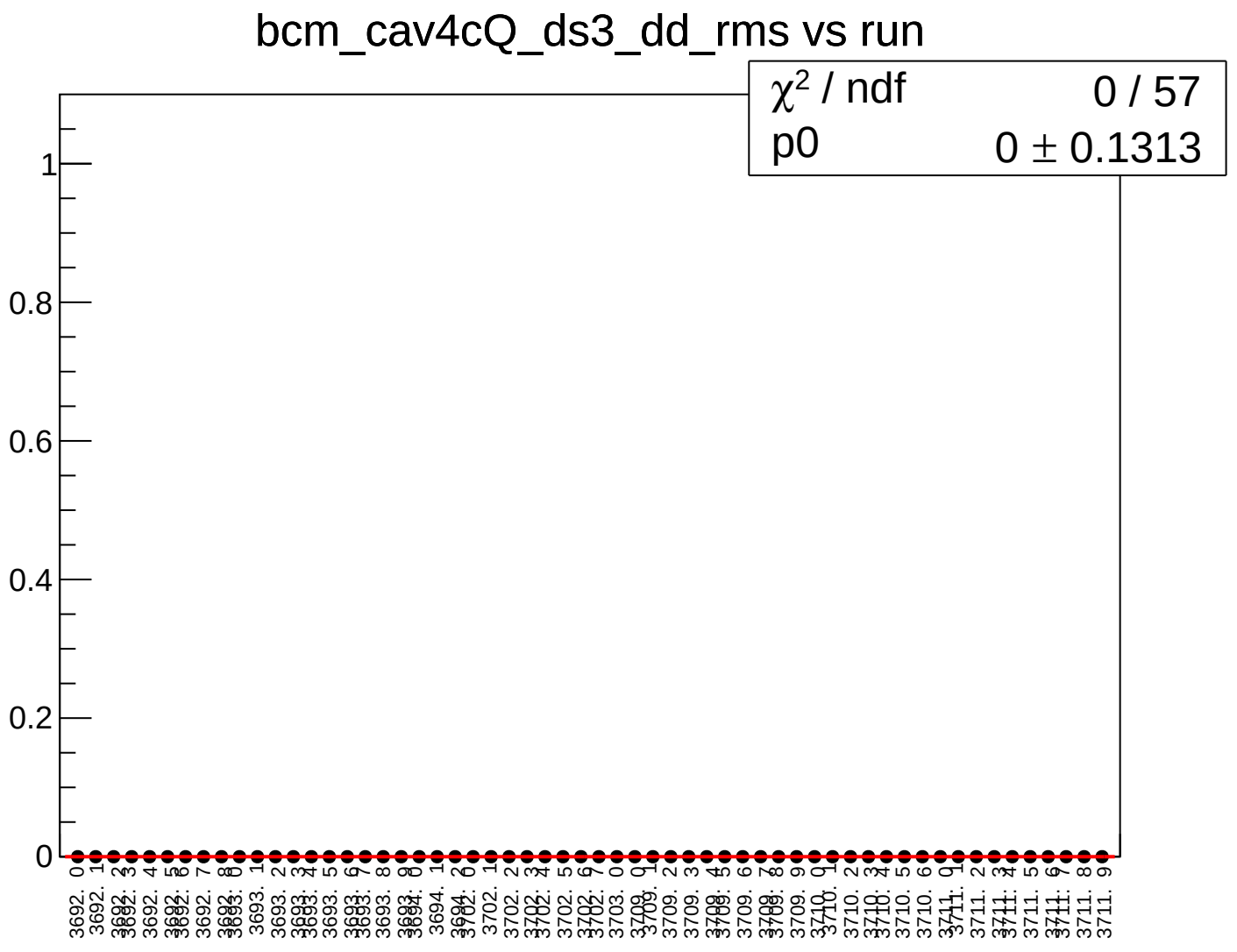

bcm_cav4cQ_ds3_avg_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

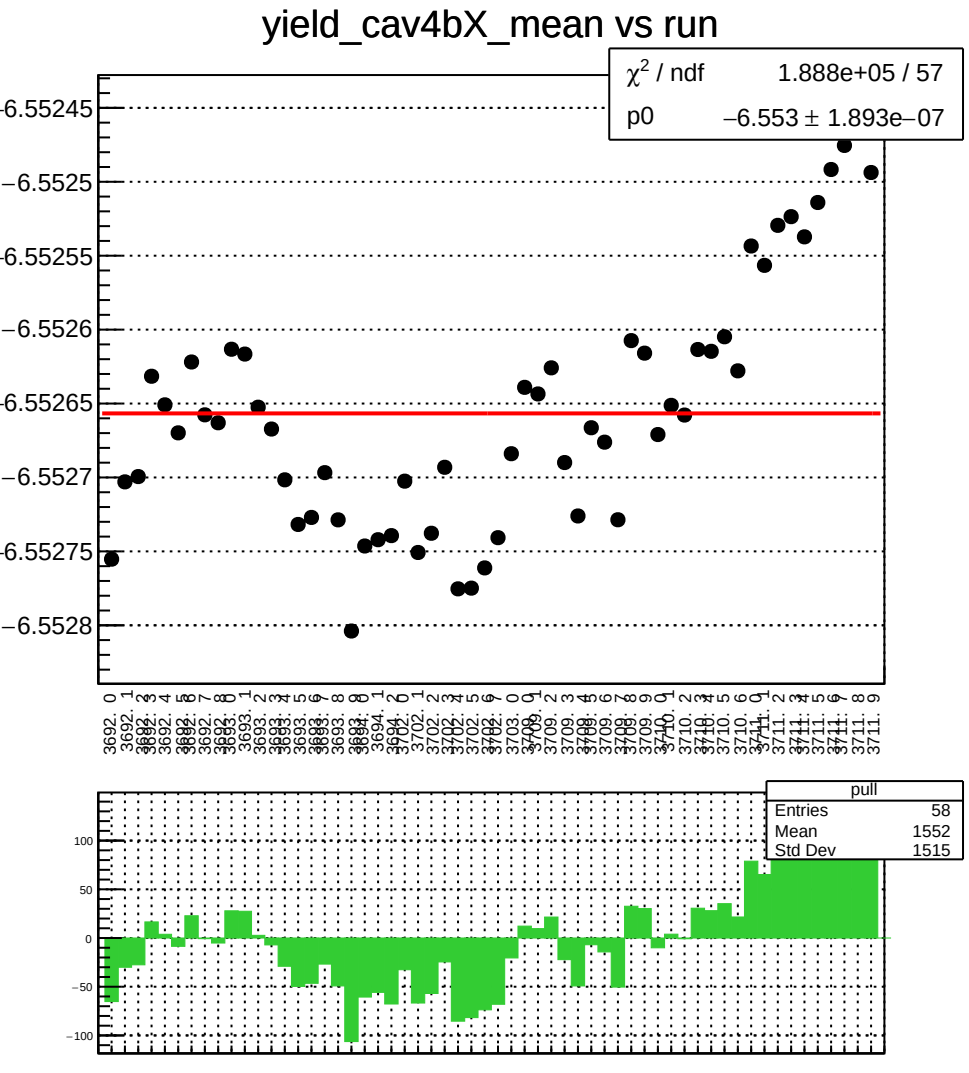

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

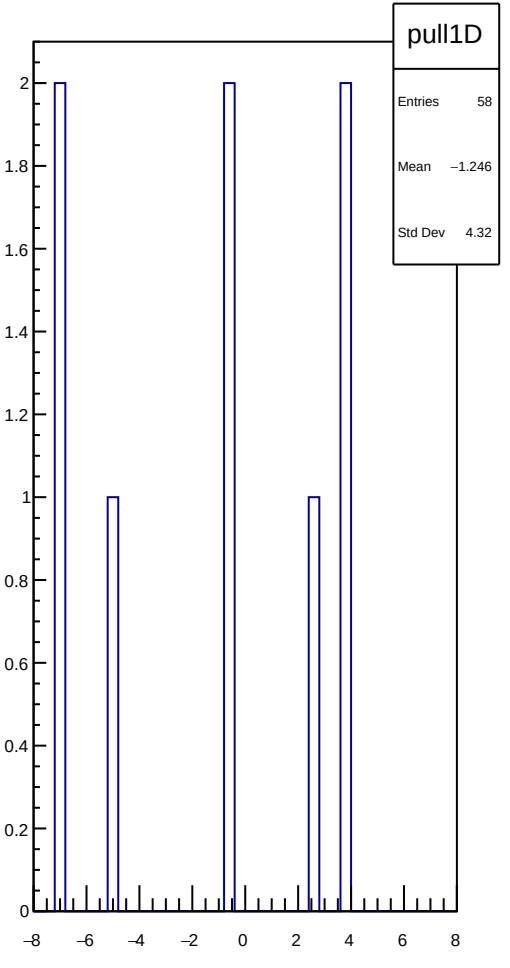

bcm_cav4cQ_ds3_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

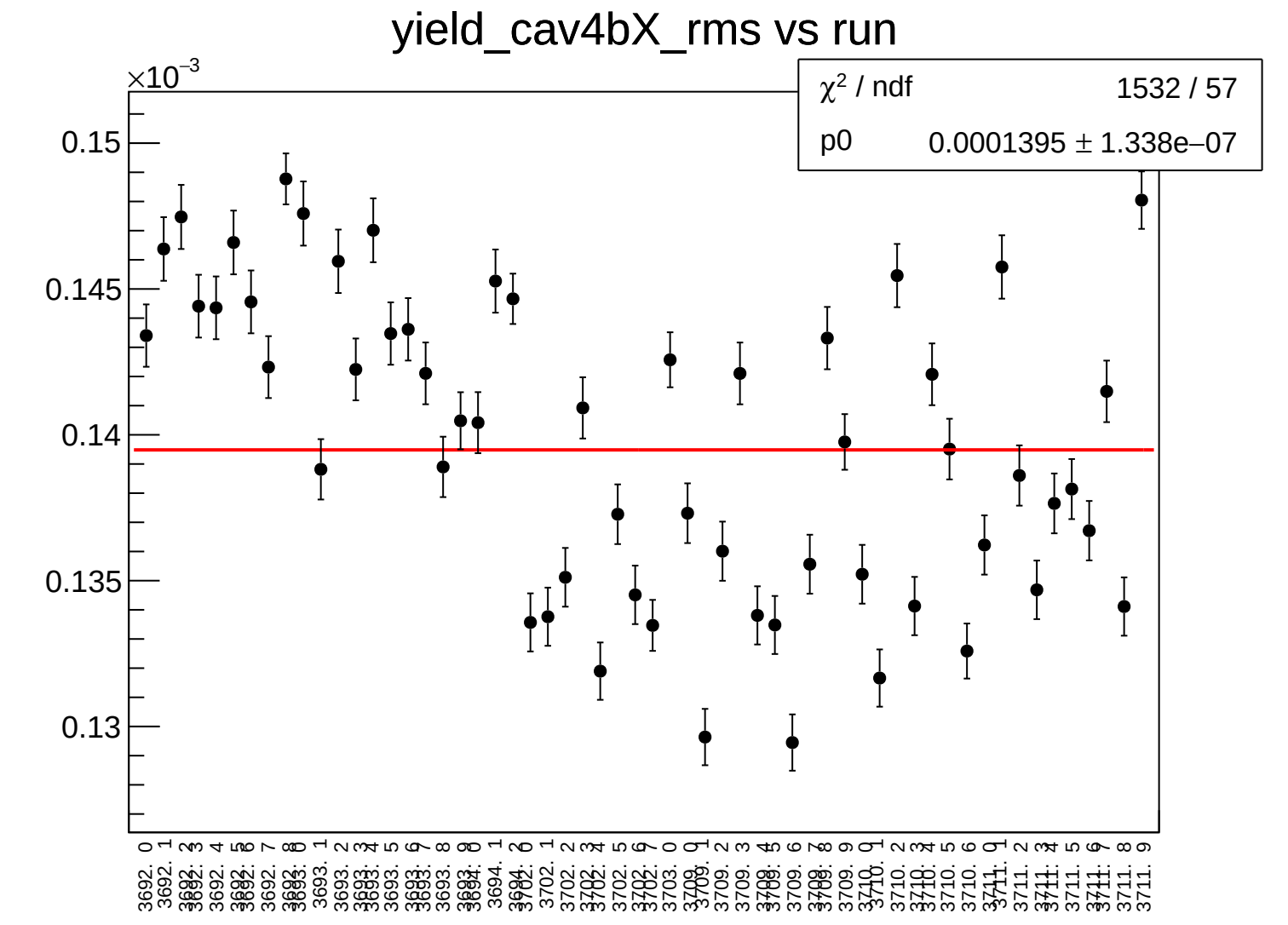

bcm_cav4cQ_ds3_dd_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

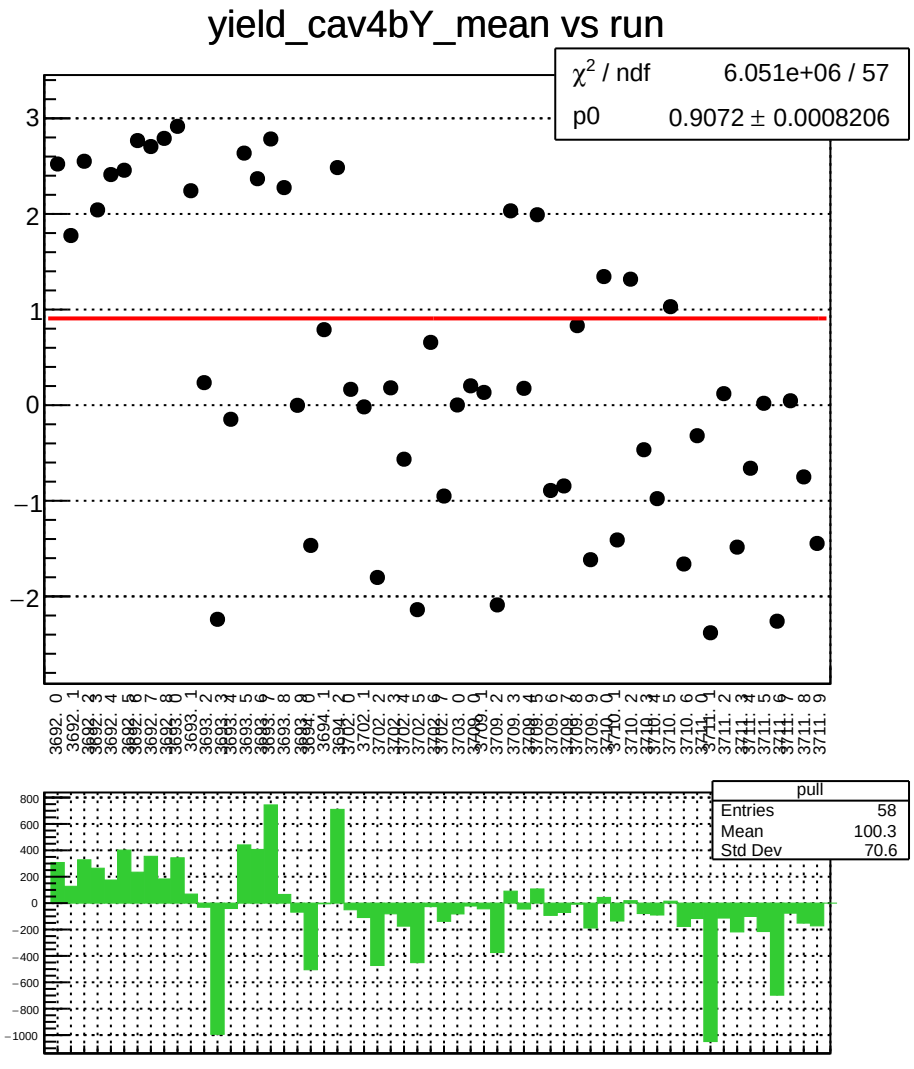

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

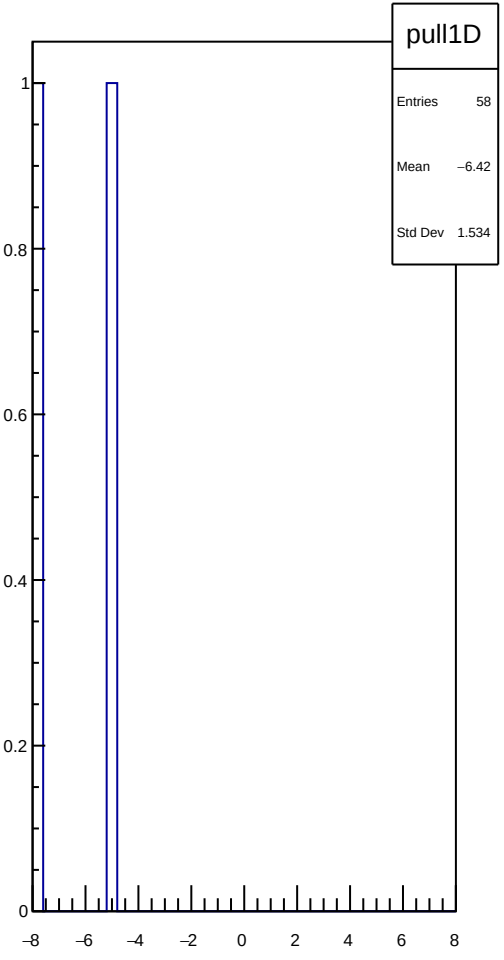

bcm_cav4cQ_ds3_dd_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

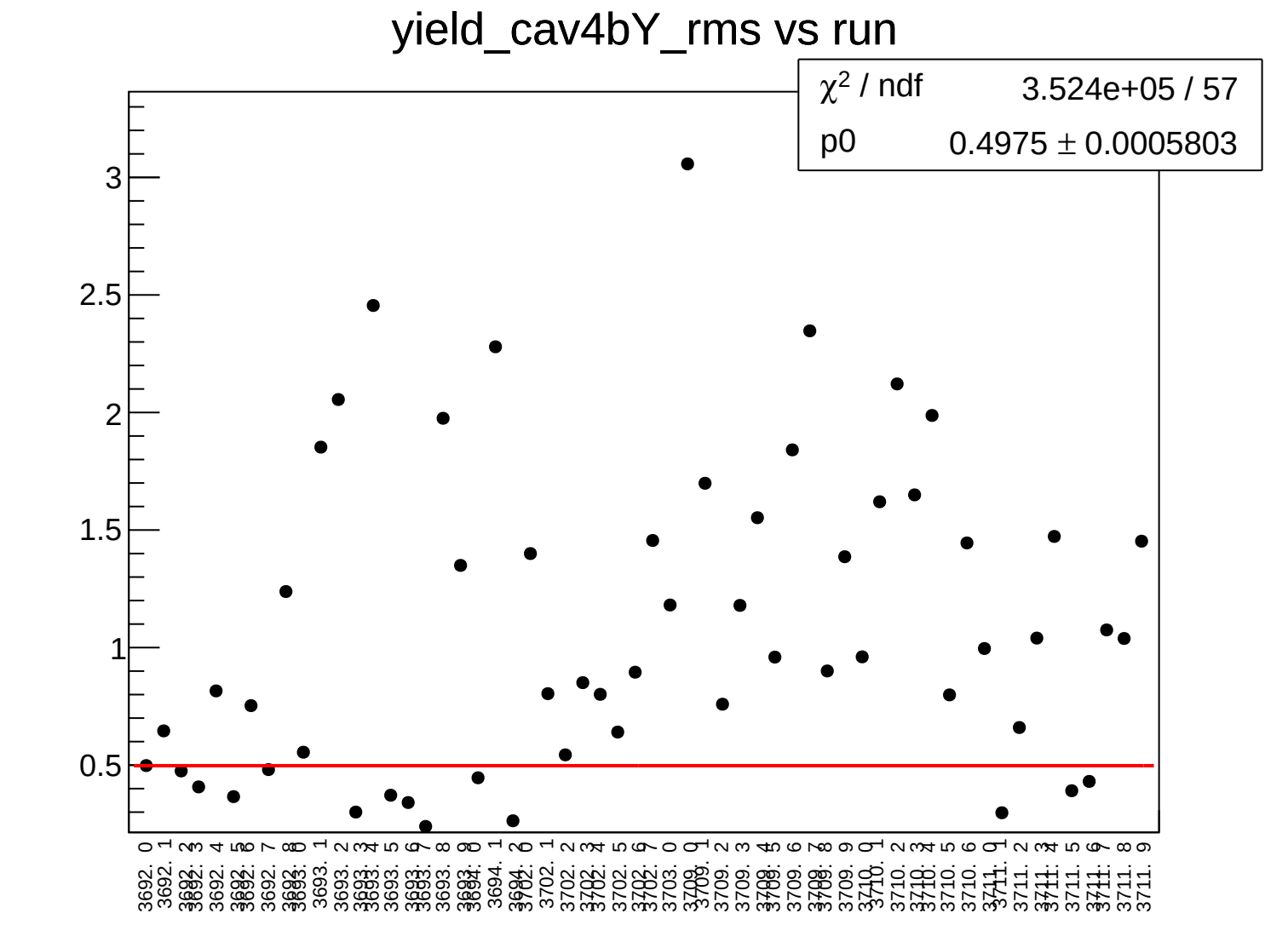

yield_cav4bX_mean vs run
χ² / ndf 1.888e+05 / 57
p0 −6.553 ± 1.893e−07
−6.55245
−6.5525
−6.55255
−6.5526
−6.55265
−6.5527
−6.55275
−6.5528
pull
Entries 58
Mean 1552
Std Dev 1515
100
50
0
−50
−100

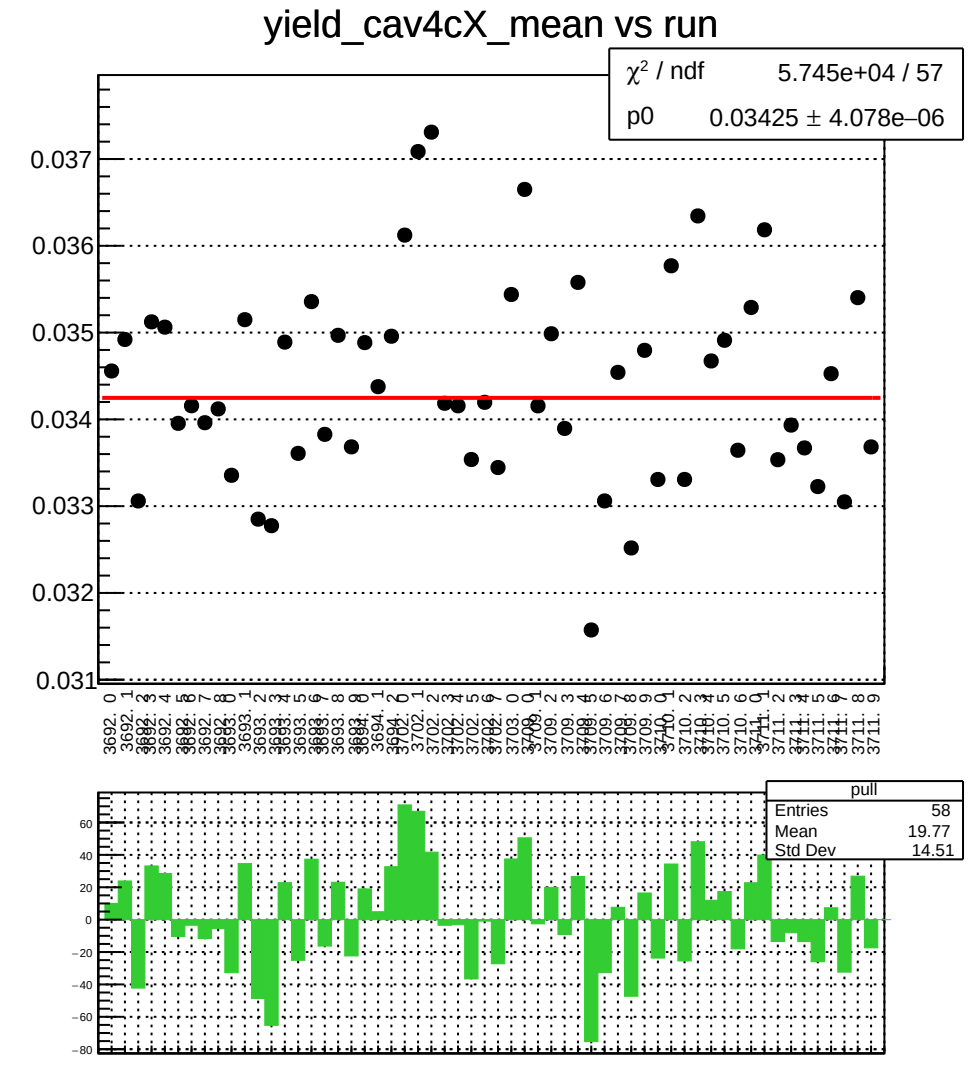

pull1D
Entries 58
Mean −1.246
Std Dev 4.32
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

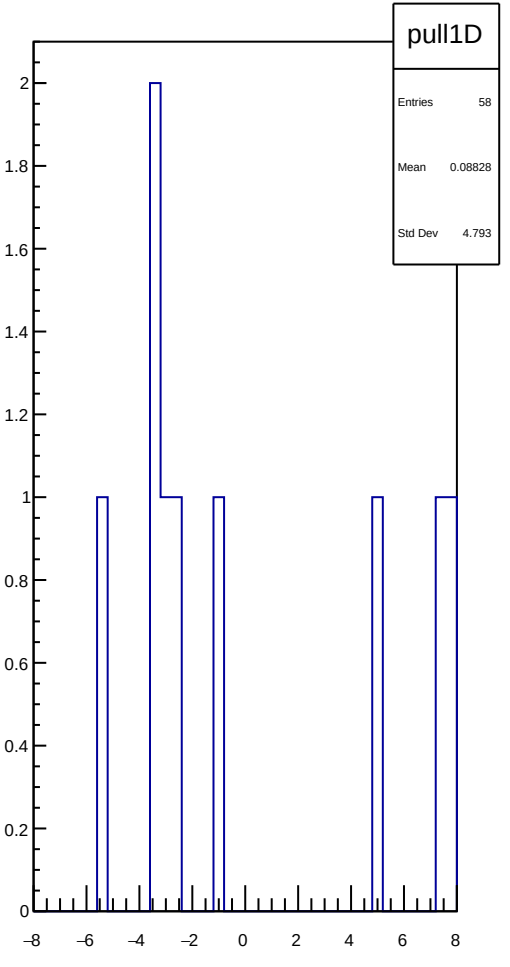

yield_cav4bX_rms vs run
×10⁻³
χ² / ndf 1532 / 57
p0 0.0001395 ± 1.338e−07
0.15
0.145
0.14
0.135
0.13

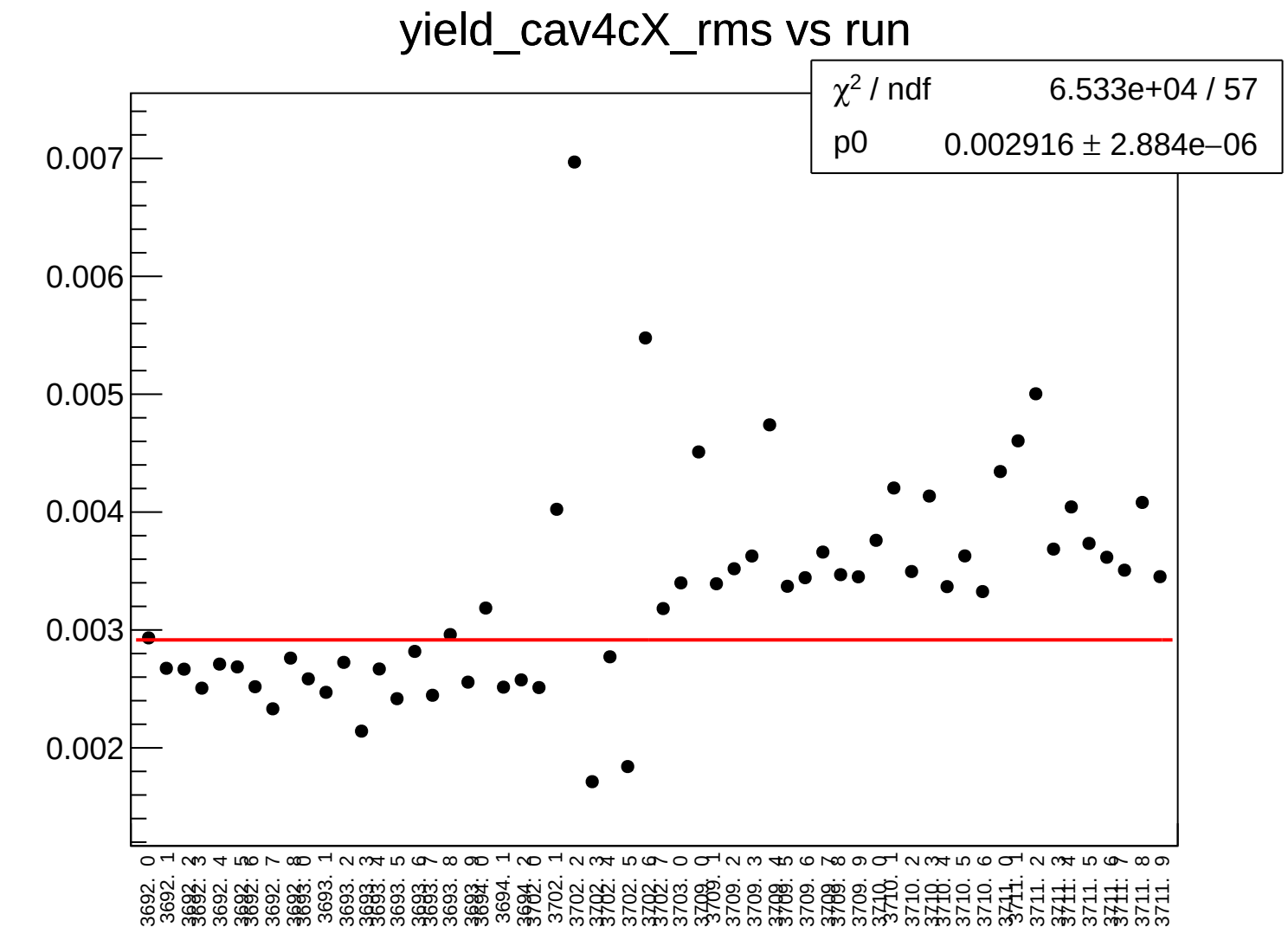

yield_cav4bY_mean vs run
χ² / ndf 6.051e+06 / 57
p0 0.9072 ± 0.0008206
pull
Entries 58
Mean 100.3
Std Dev 70.6

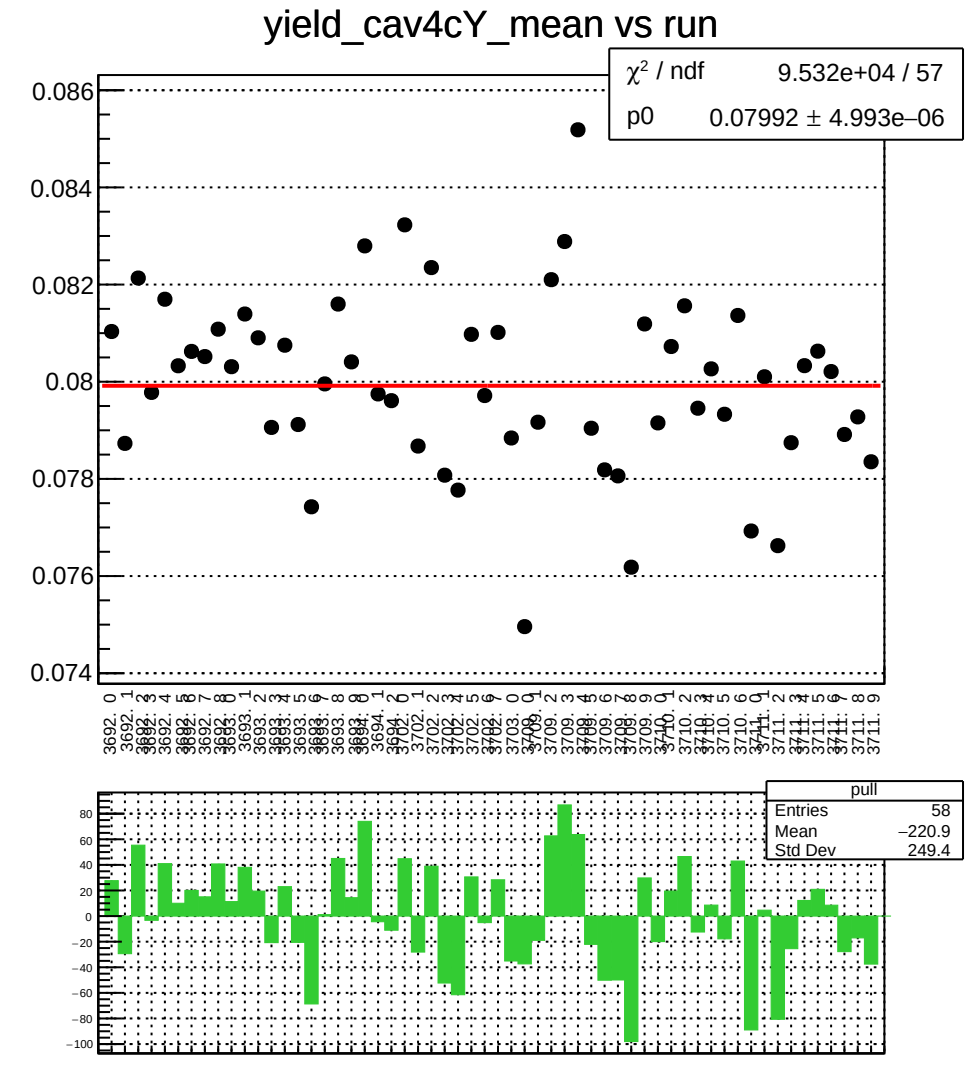

pull1D
Entries 58
Mean −6.42
Std Dev 1.534

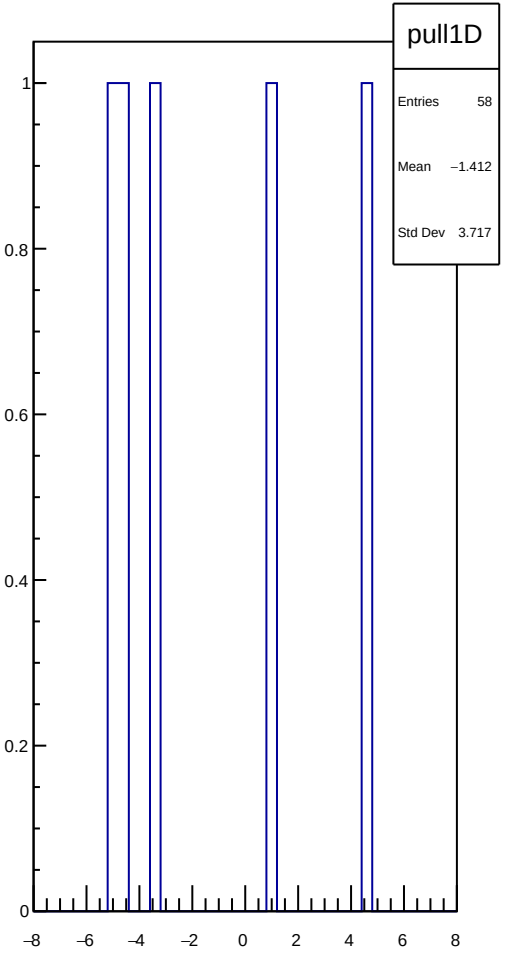

yield_cav4bY_rms vs run
χ² / ndf 3.524e+05 / 57
p0 0.4975 ± 0.0005803
3
2.5
2
1.5
1
0.5

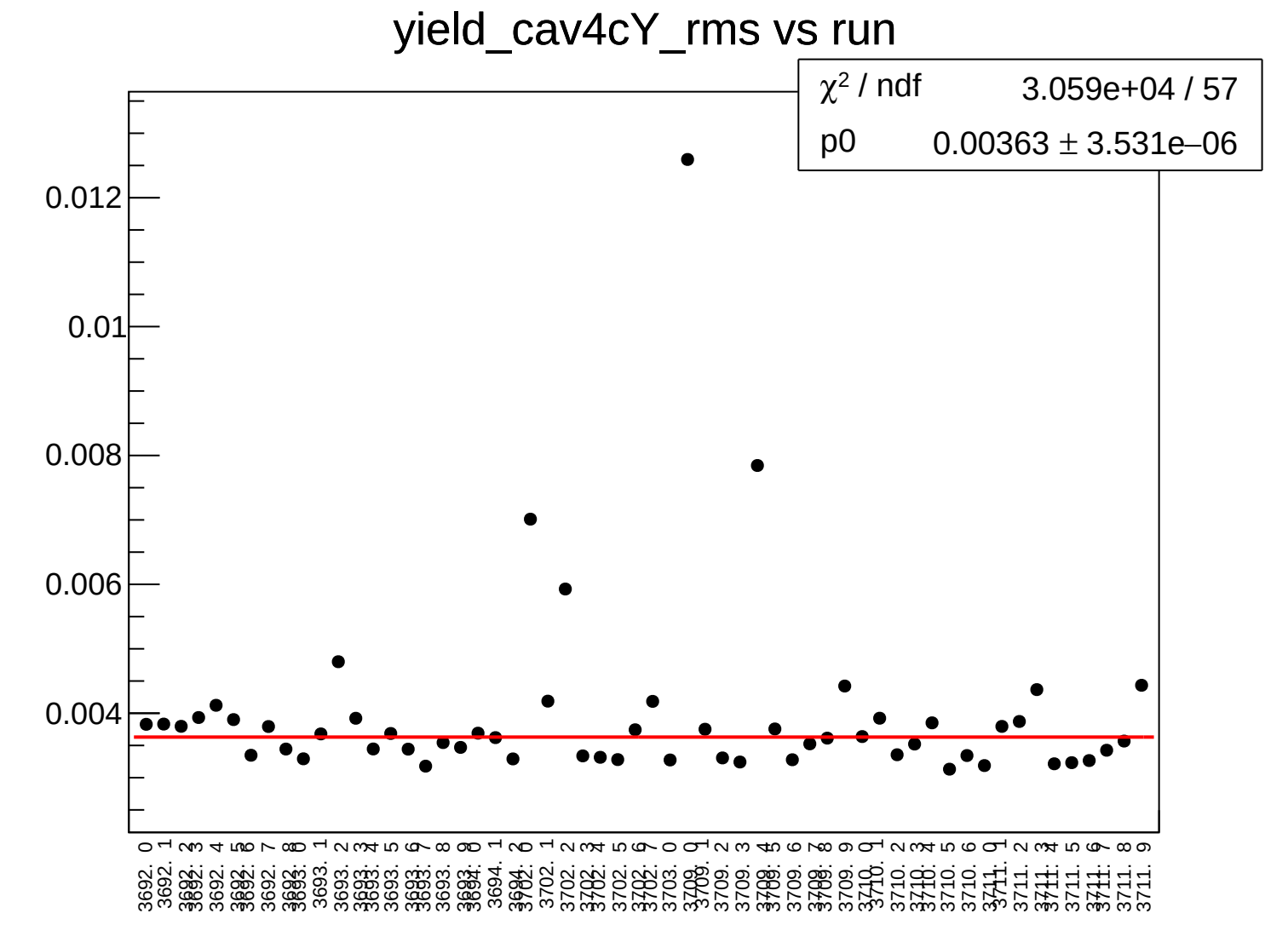

yield_cav4cX_mean vs run
χ² / ndf 5.745e+04 / 57
p0 0.03425 ± 4.078e−06
0.037
0.036
0.035
0.034
0.033
0.032
0.031
pull
Entries 58
Mean 19.77
Std Dev 14.51
60
40
20
0
−20
−40
−60
−80

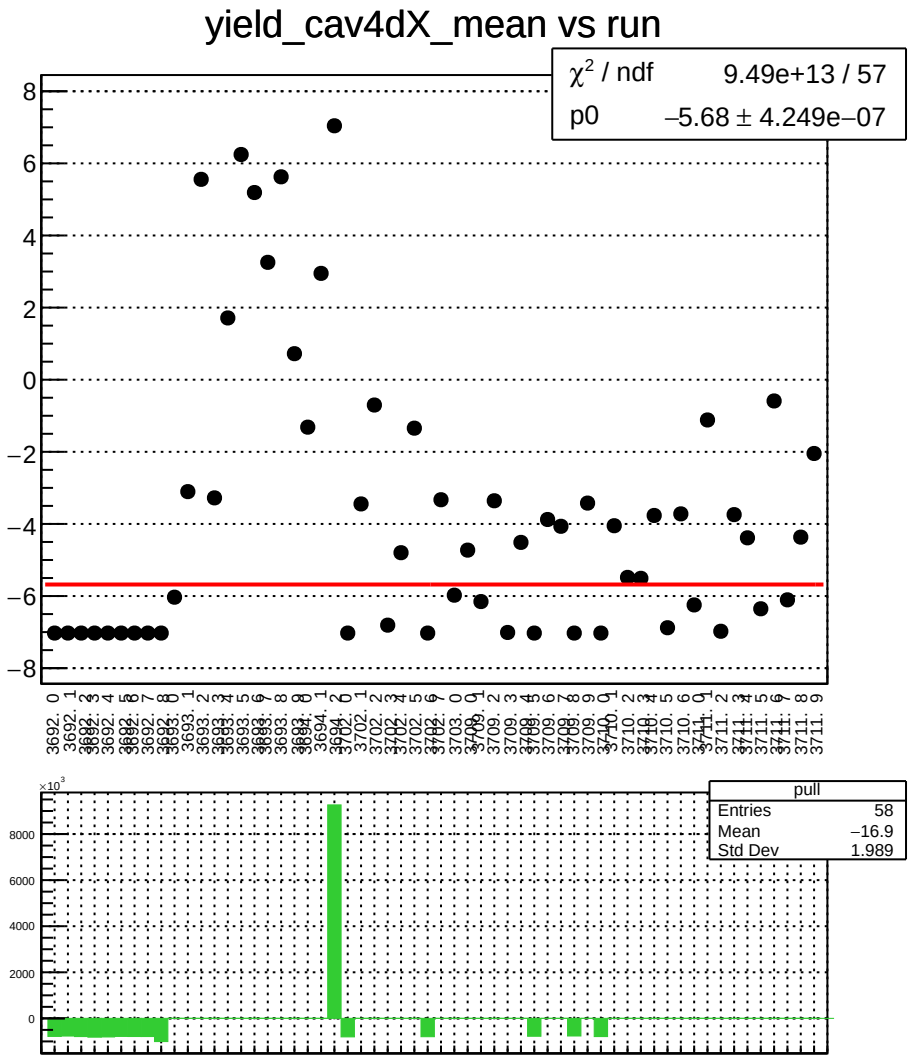

pull1D
Entries 58
Mean 0.08828
Std Dev 4.793
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

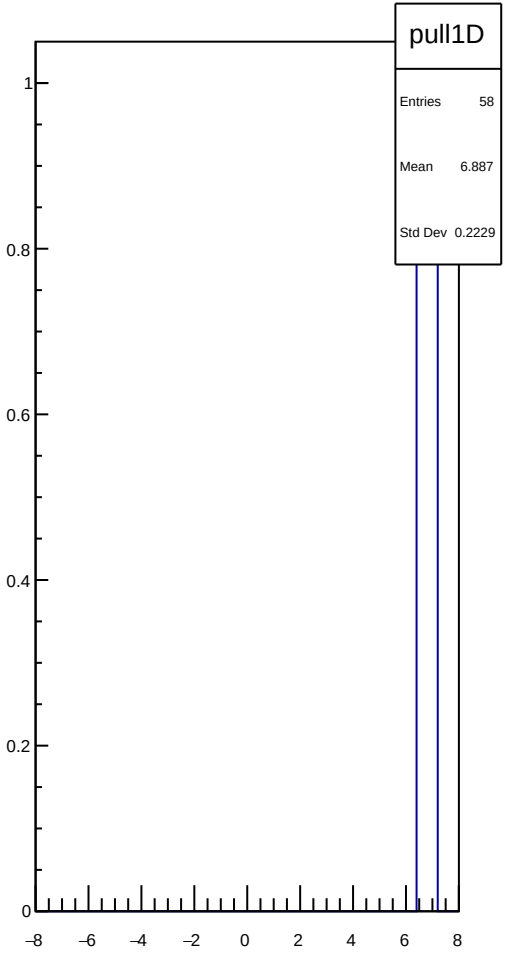

yield_cav4cX_rms vs run
χ² / ndf 6.533e+04 / 57
p0 0.002916 ± 2.884e−06
0.007
0.006
0.005
0.004
0.003
0.002

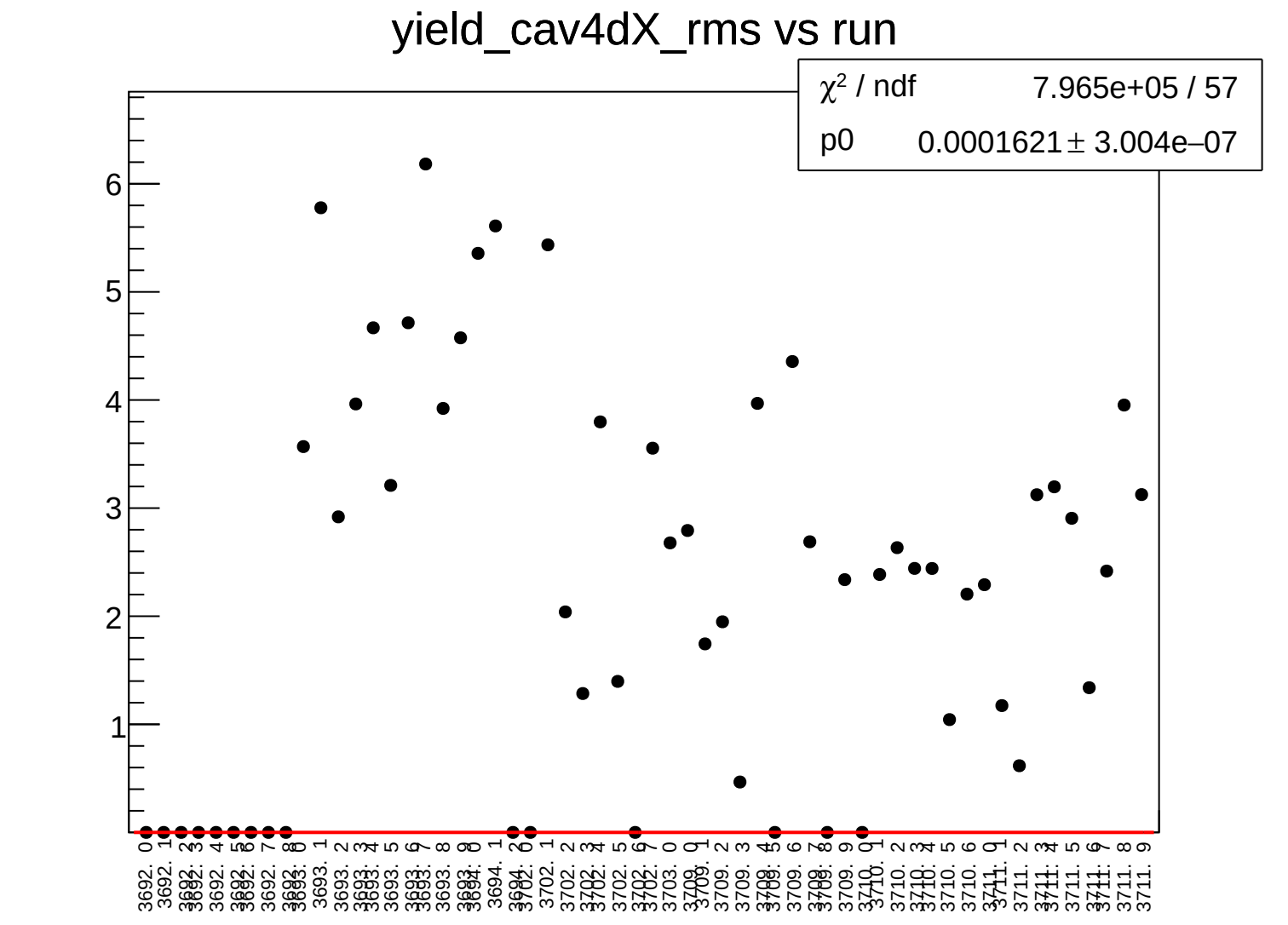

yield_cav4cY_mean vs run
χ² / ndf 9.532e+04 / 57
p0 0.07992 ± 4.993e−06
0.086
0.084
0.082
0.08
0.078
0.076
0.074
pull
Entries 58
Mean −220.9
Std Dev 249.4
80
60
40
20
0
−20
−40
−60
−80
−100

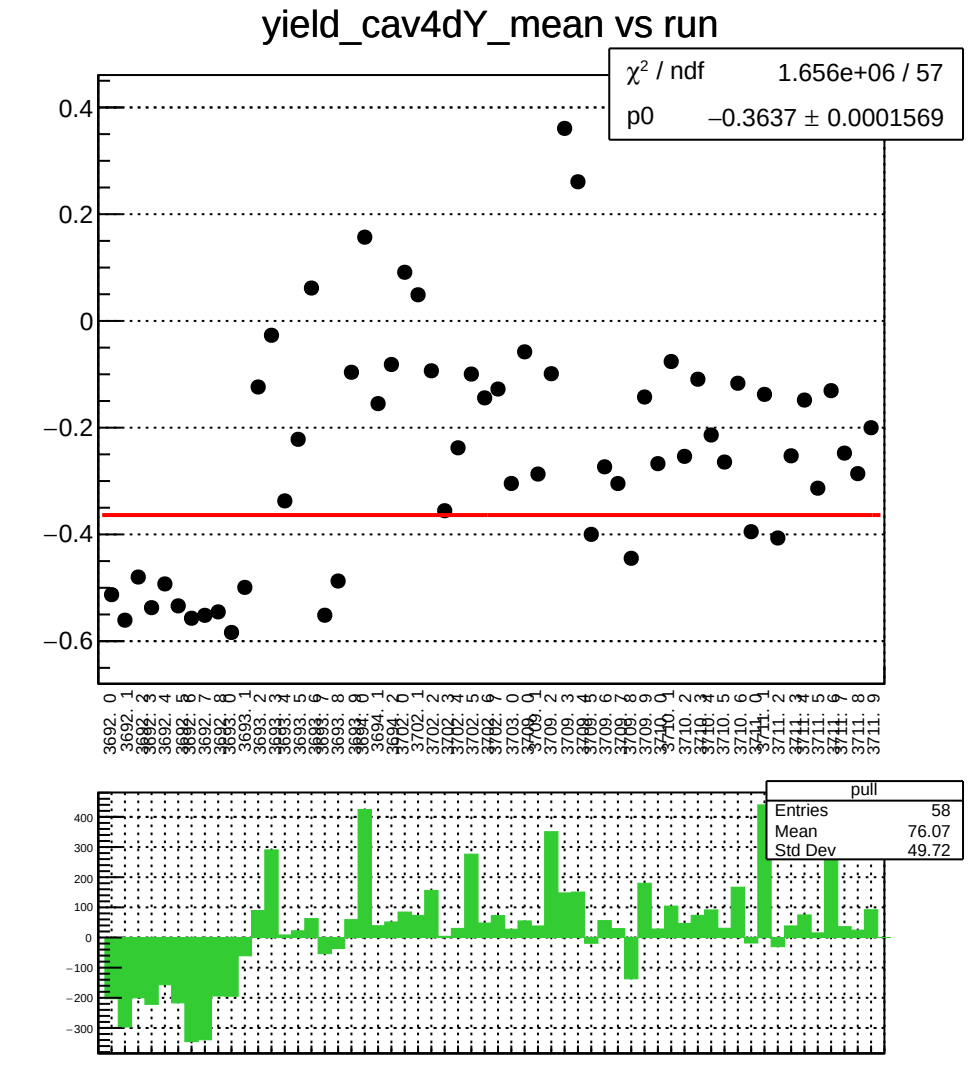

pull1D
Entries 58
Mean −1.412
Std Dev 3.717
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

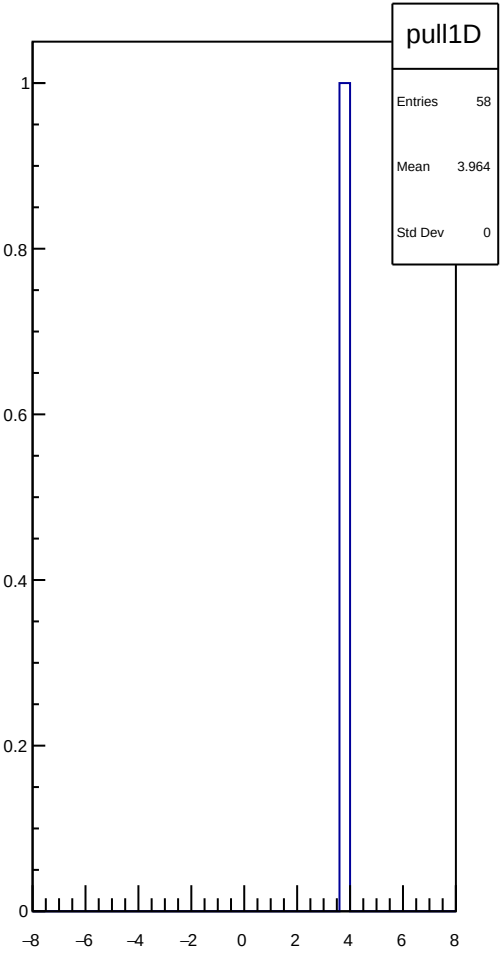

yield_cav4cY_rms vs run
χ² / ndf 3.059e+04 / 57
p0 0.00363 ± 3.531e–06
0.012
0.01
0.008
0.006
0.004

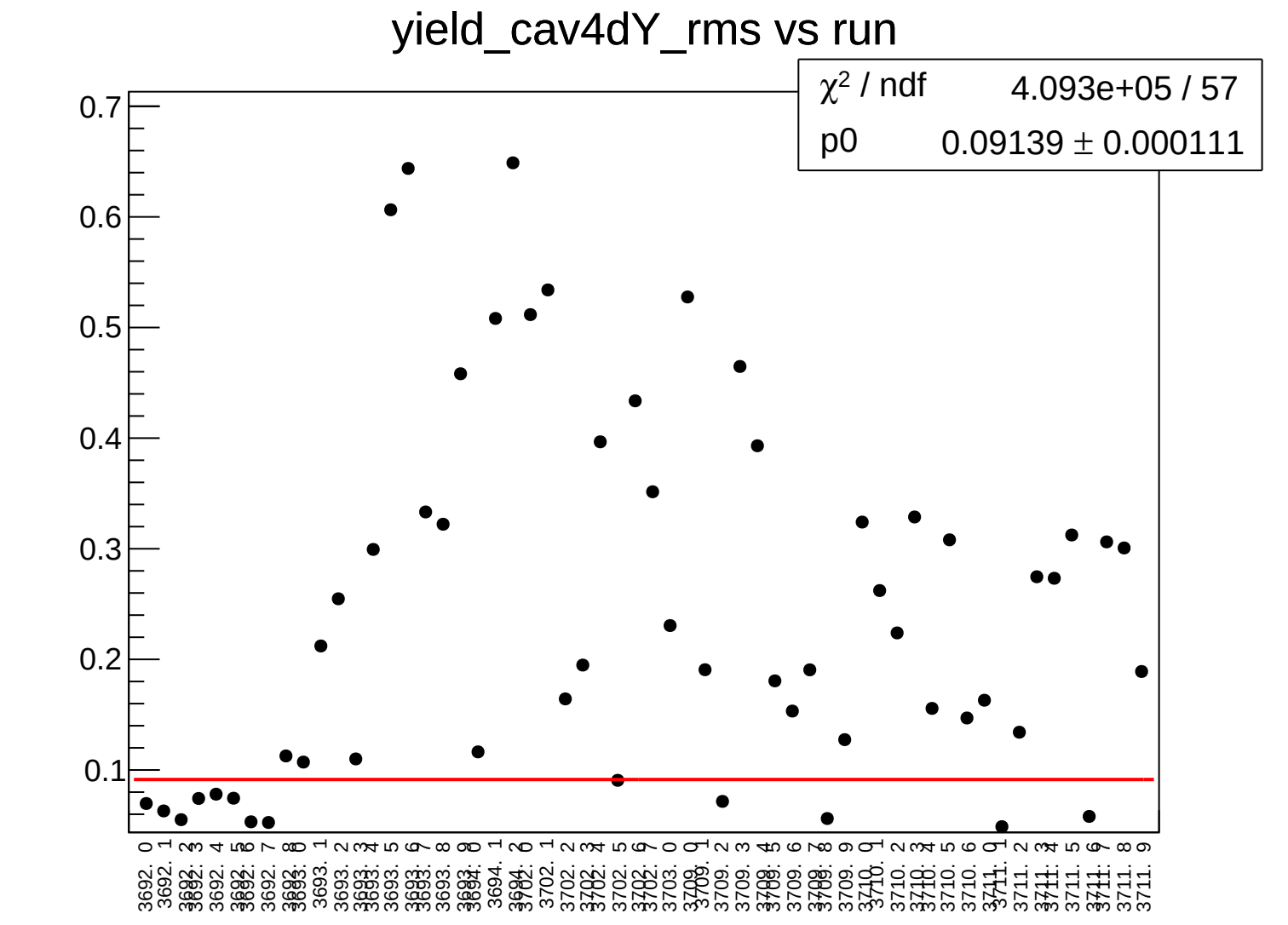

yield_cav4dX_mean vs run
χ² / ndf 9.49e+13 / 57
p0 −5.68 ± 4.249e−07
pull
Entries 58
Mean −16.9
Std Dev 1.989

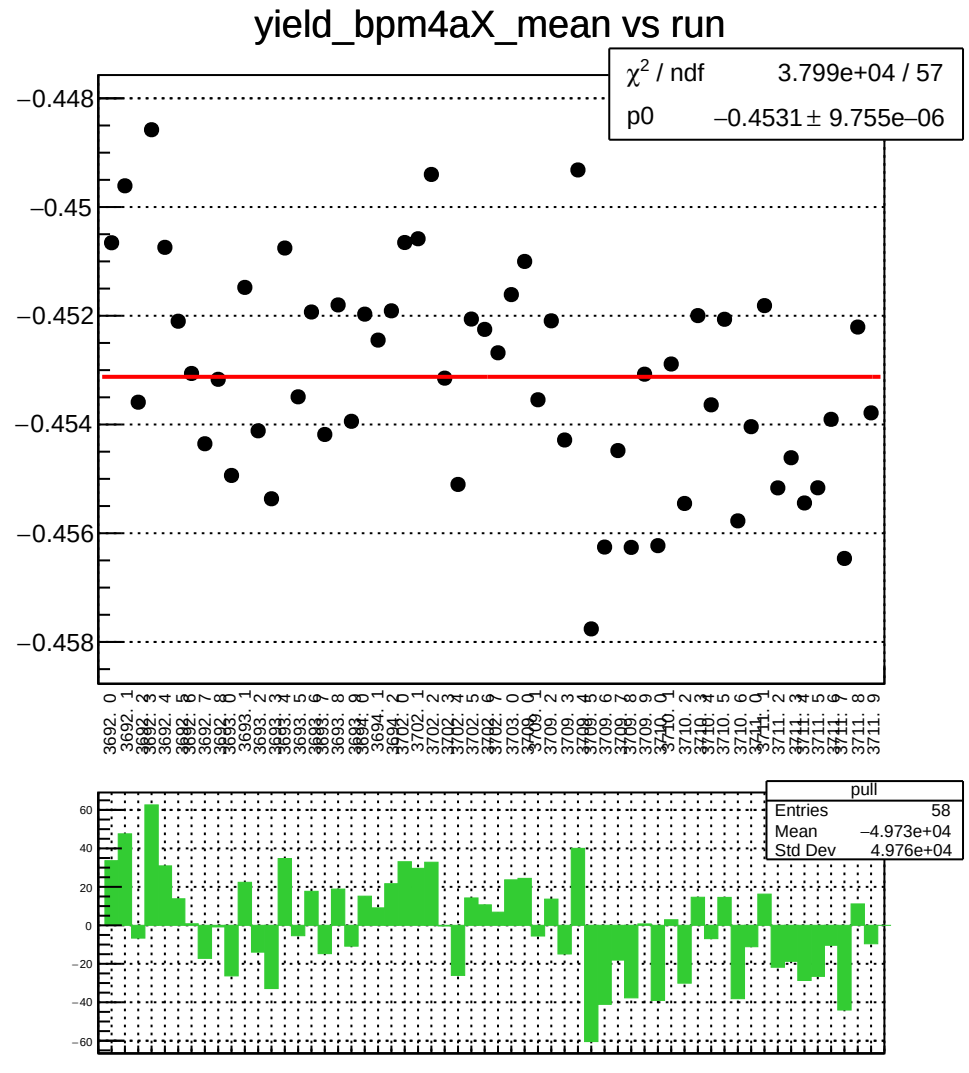

pull1D
Entries 58
Mean 6.887
Std Dev 0.2229

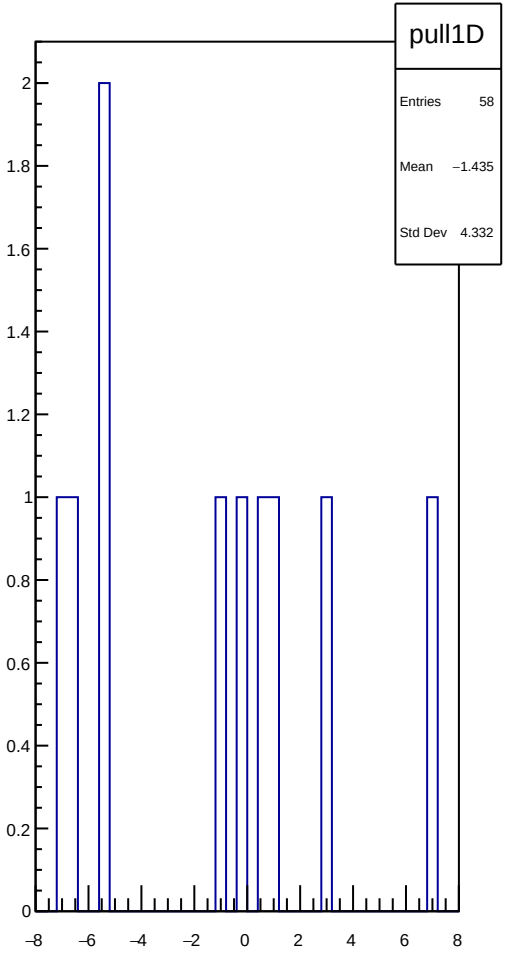

yield_cav4dX_rms vs run
χ² / ndf 7.965e+05 / 57
p0 0.0001621 ± 3.004e–07
6
5
4
3
2
1
3692. 0
3692. 1
3692. 2
3692. 3
3692. 4
3692. 5
3692. 6
3692. 7
3692. 8
3693. 0
3693. 1
3693. 2
3693. 3
3693. 4
3693. 5
3693. 6
3693. 7
3693. 8
3693. 9
3694. 0
3694. 1
3694. 2
3694. 3
3702. 0
3702. 1
3702. 2
3702. 3
3702. 4
3702. 5
3702. 6
3702. 7
3703. 0
3709. 0
3709. 1
3709. 2
3709. 3
3709. 4
3709. 5
3709. 6
3709. 7
3709. 8
3709. 9
3710. 0
3710. 1
3710. 2
3710. 3
3710. 4
3710. 5
3710. 6
3711. 0
3711. 1
3711. 2
3711. 3
3711. 4
3711. 5
3711. 6
3711. 7
3711. 8
3711. 9

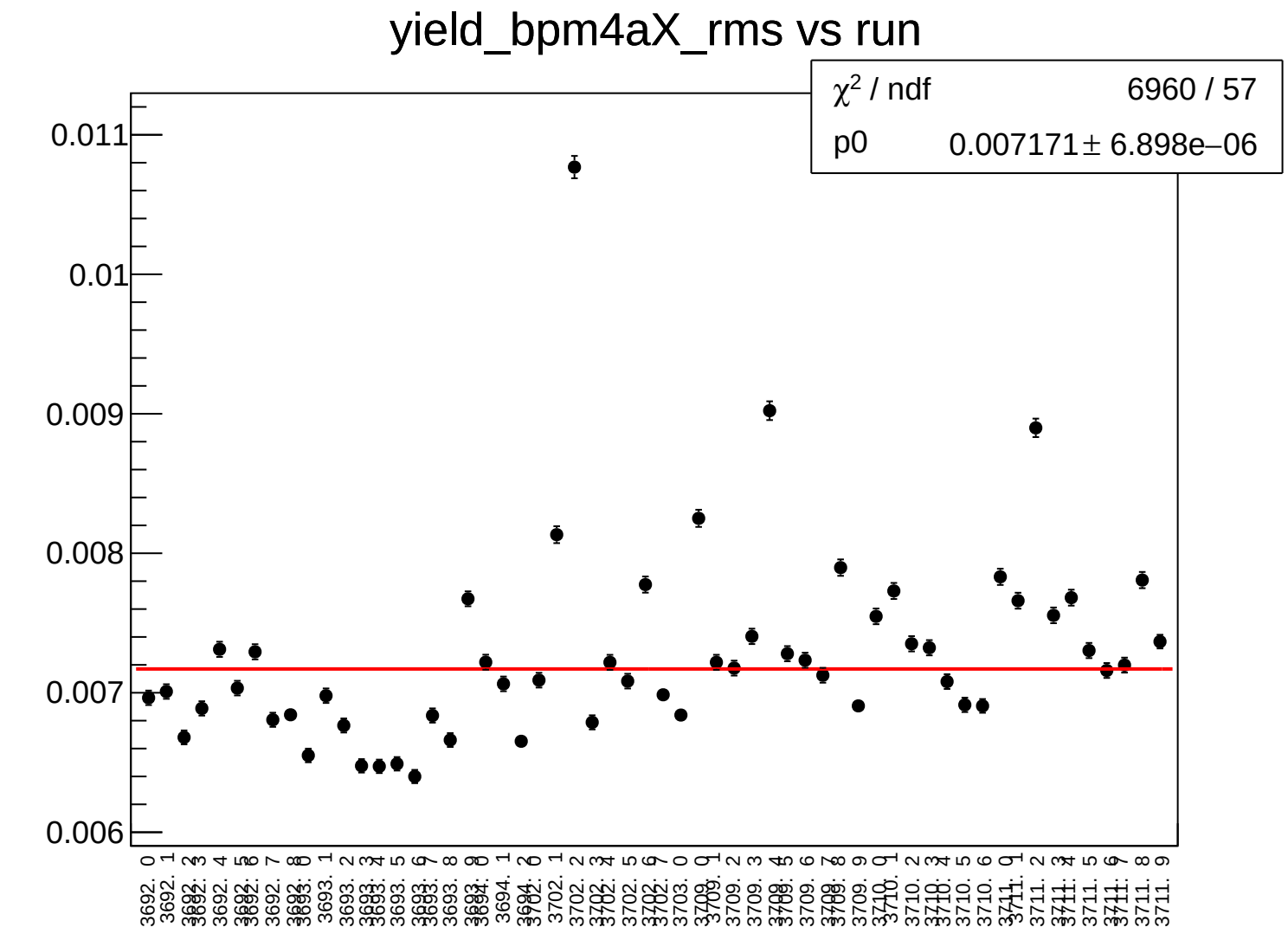

yield_cav4dY_mean vs run
χ² / ndf 1.656e+06 / 57
p0 −0.3637 ± 0.0001569
pull
Entries 58
Mean 76.07
Std Dev 49.72

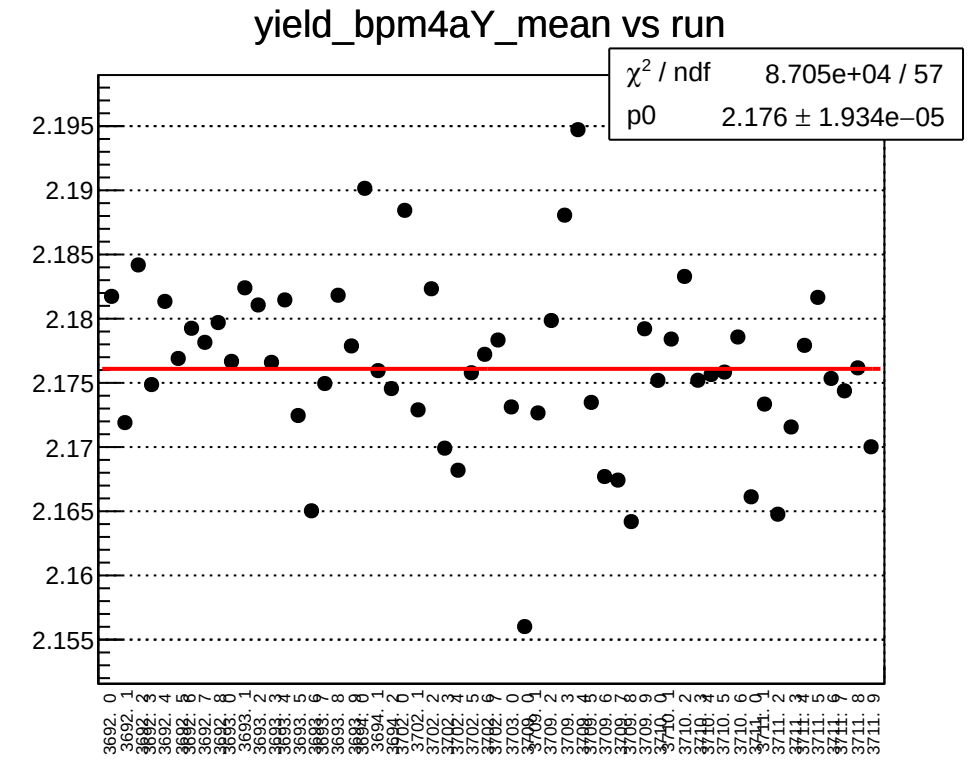

pull1D
Entries 58
Mean 3.964
Std Dev 0

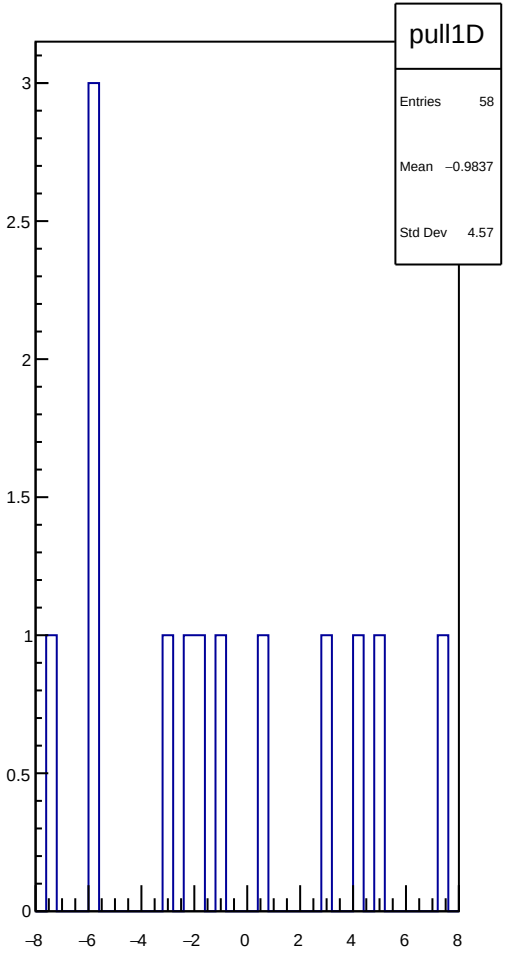

yield_cav4dY_rms vs run
χ² / ndf 4.093e+05 / 57
p0 0.09139 ± 0.000111
0.7
0.6
0.5
0.4
0.3
0.2
0.1

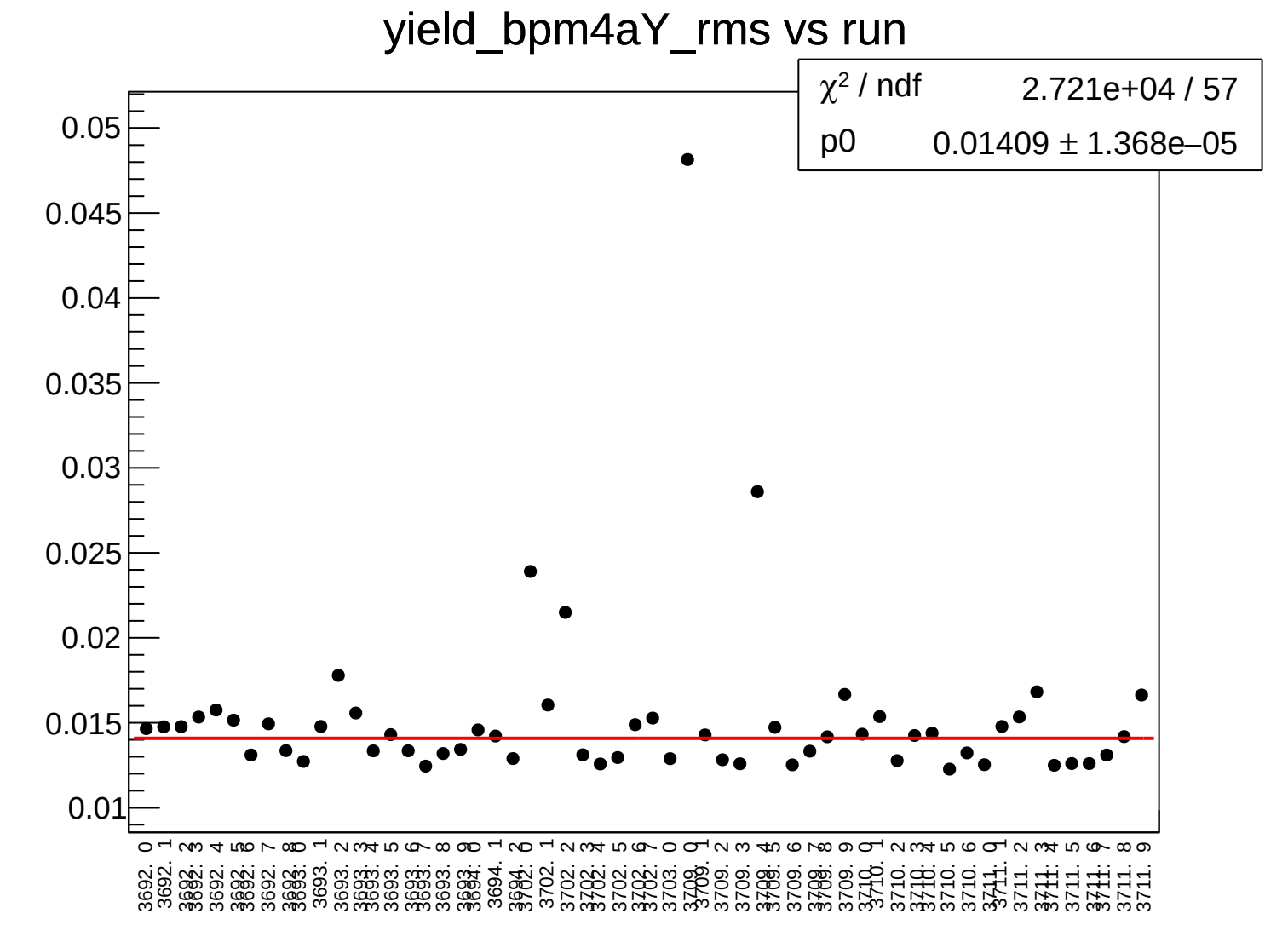

yield_bpm4aX_mean vs run
χ² / ndf 3.799e+04 / 57
p0 −0.4531 ± 9.755e−06
−0.448
−0.45
−0.452
−0.454
−0.456
−0.458
pull
Entries 58
Mean −4.973e+04
Std Dev 4.976e+04
60
40
20
0
−20
−40
−60

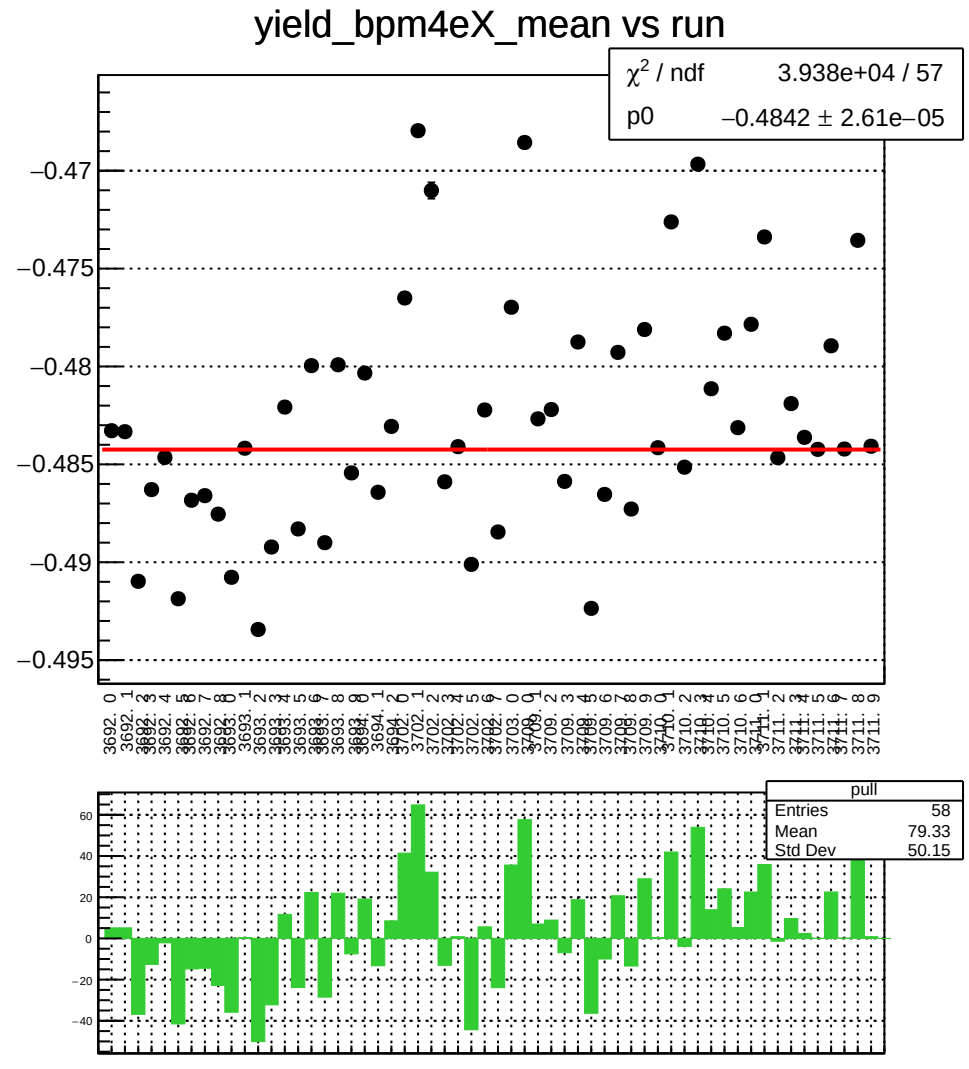

pull1D
Entries 58
Mean −1.435
Std Dev 4.332
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

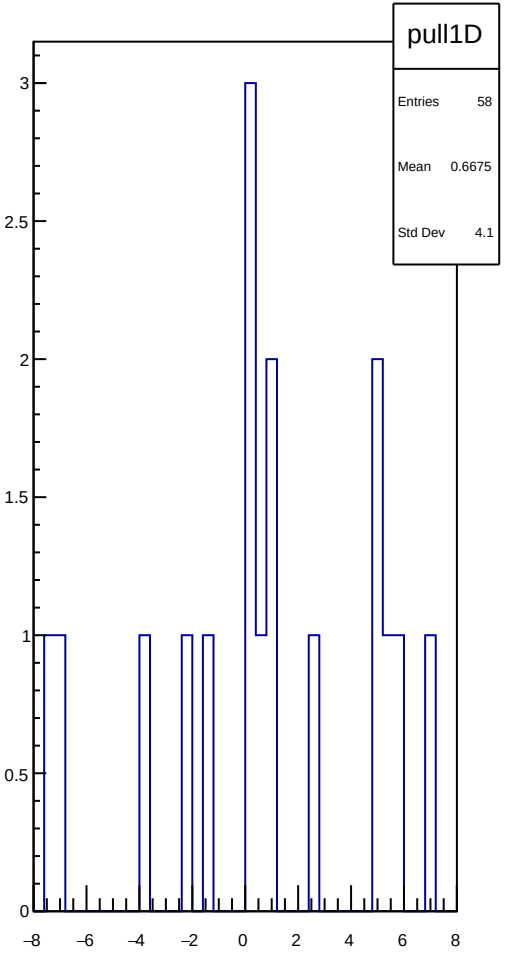

yield_bpm4aX_rms vs run
χ² / ndf 6960 / 57
p0 0.007171 ± 6.898e−06
0.011
0.01
0.009
0.008
0.007
0.006

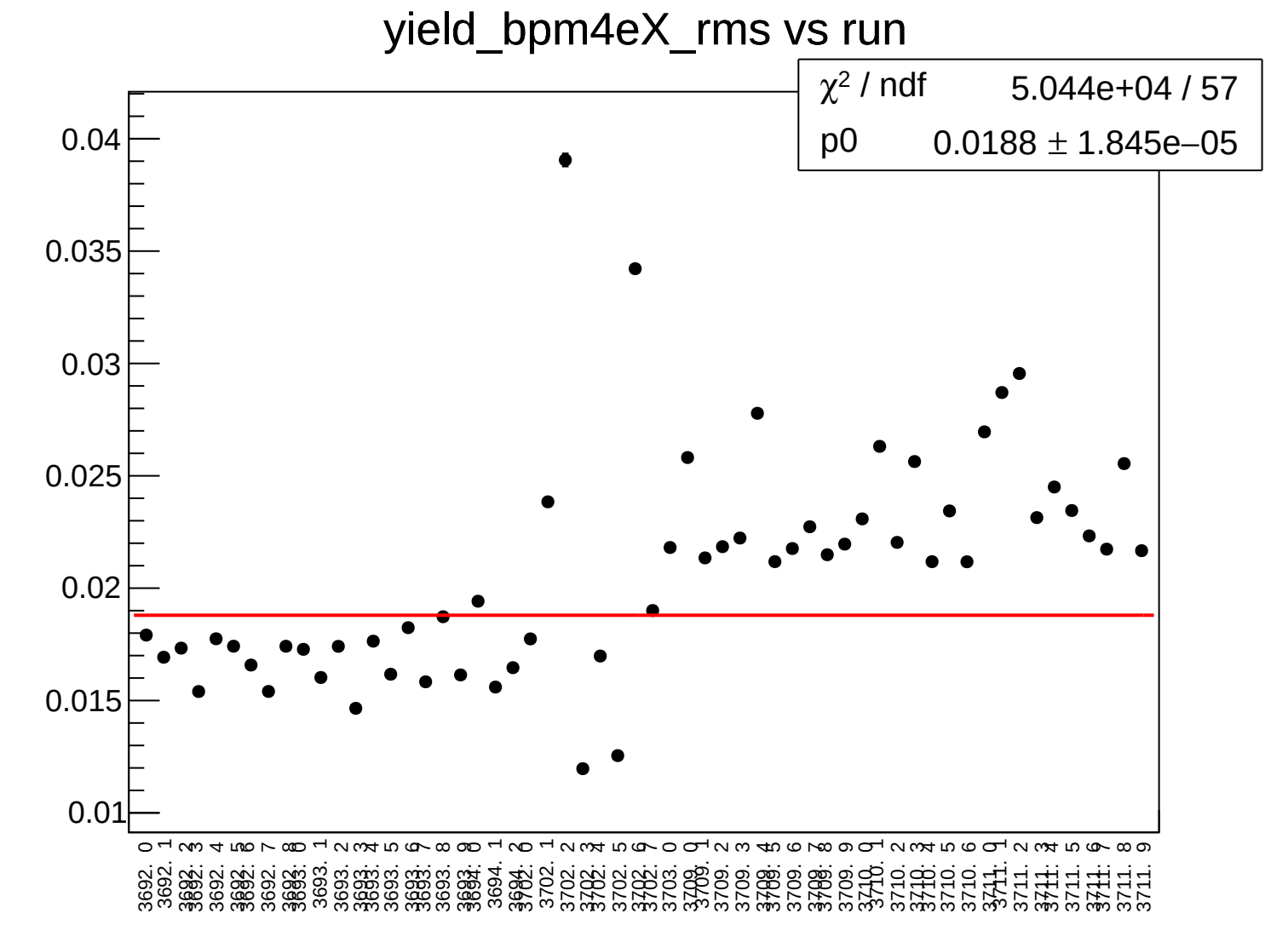

yield_bpm4aY_mean vs run
χ² / ndf 8.705e+04 / 57
p0 2.176 ± 1.934e−05
2.195
2.19
2.185
2.18
2.175
2.17
2.165
2.16
2.155
pull
Entries 58
Mean −232.2
Std Dev 259.5
100
80
60
40
20
0
−20
−40
−60
−80

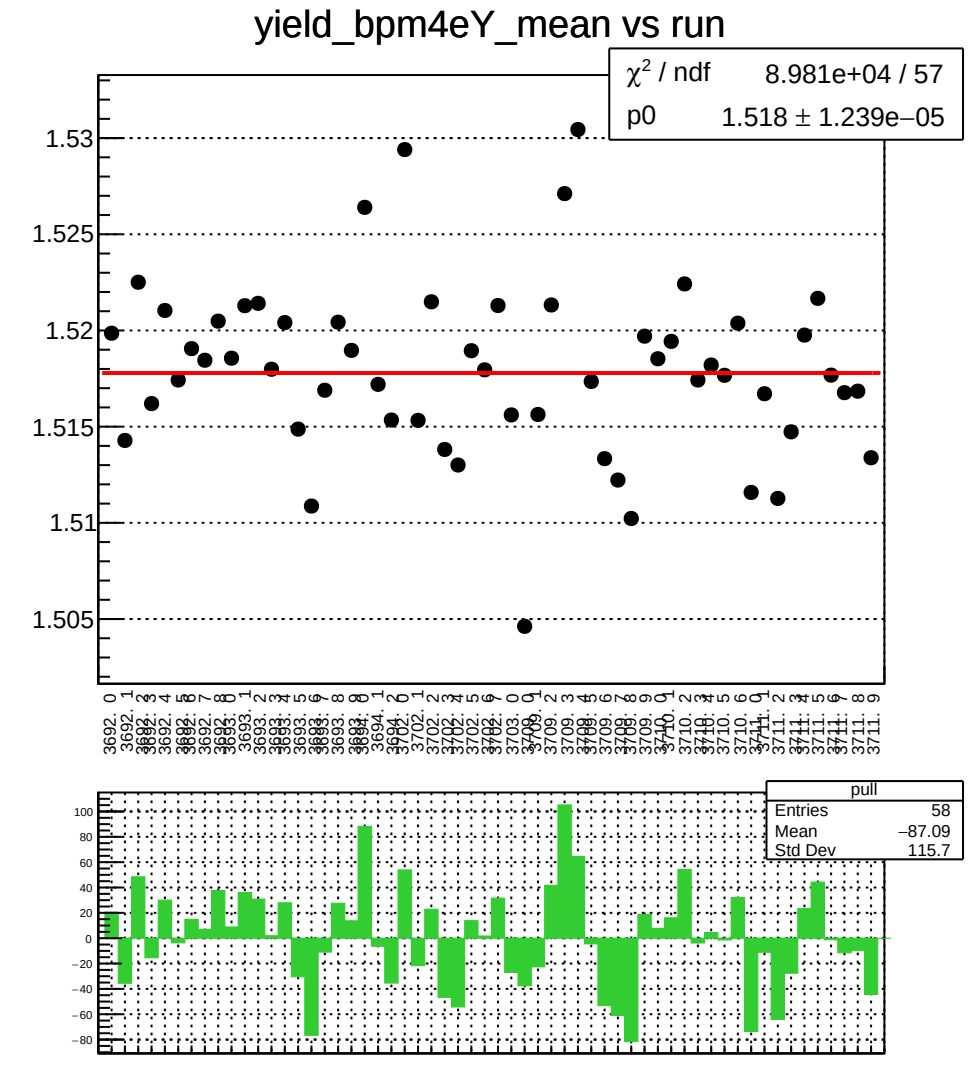

pull1D
Entries 58
Mean −0.9837
Std Dev 4.57
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

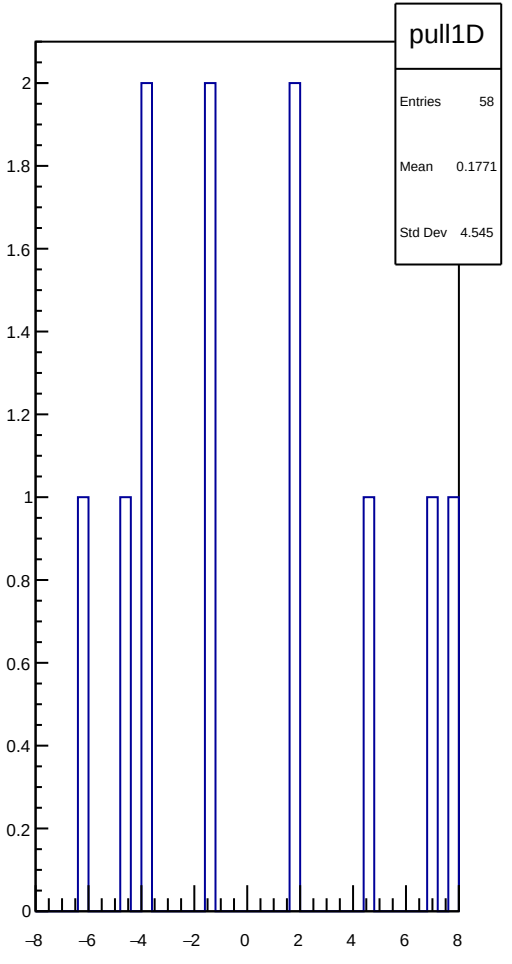

yield_bpm4aY_rms vs run
χ² / ndf 2.721e+04 / 57
p0 0.01409 ± 1.368e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

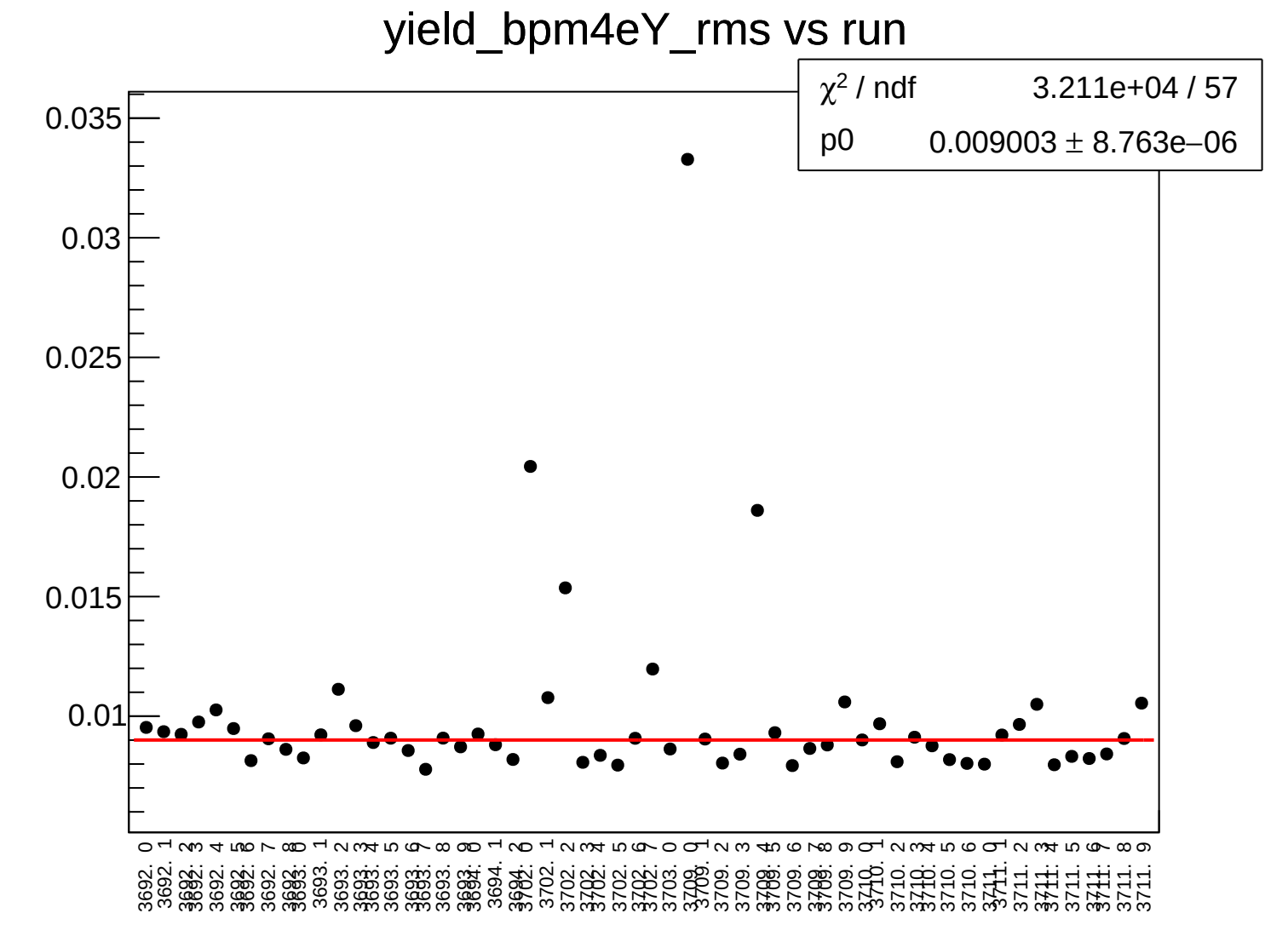

yield_bpm4eX_mean vs run
χ² / ndf 3.938e+04 / 57
p0 −0.4842 ± 2.61e−05
−0.47
−0.475
−0.48
−0.485
−0.49
−0.495
pull
Entries 58
Mean 79.33
Std Dev 50.15
60
40
20
0
−20
−40

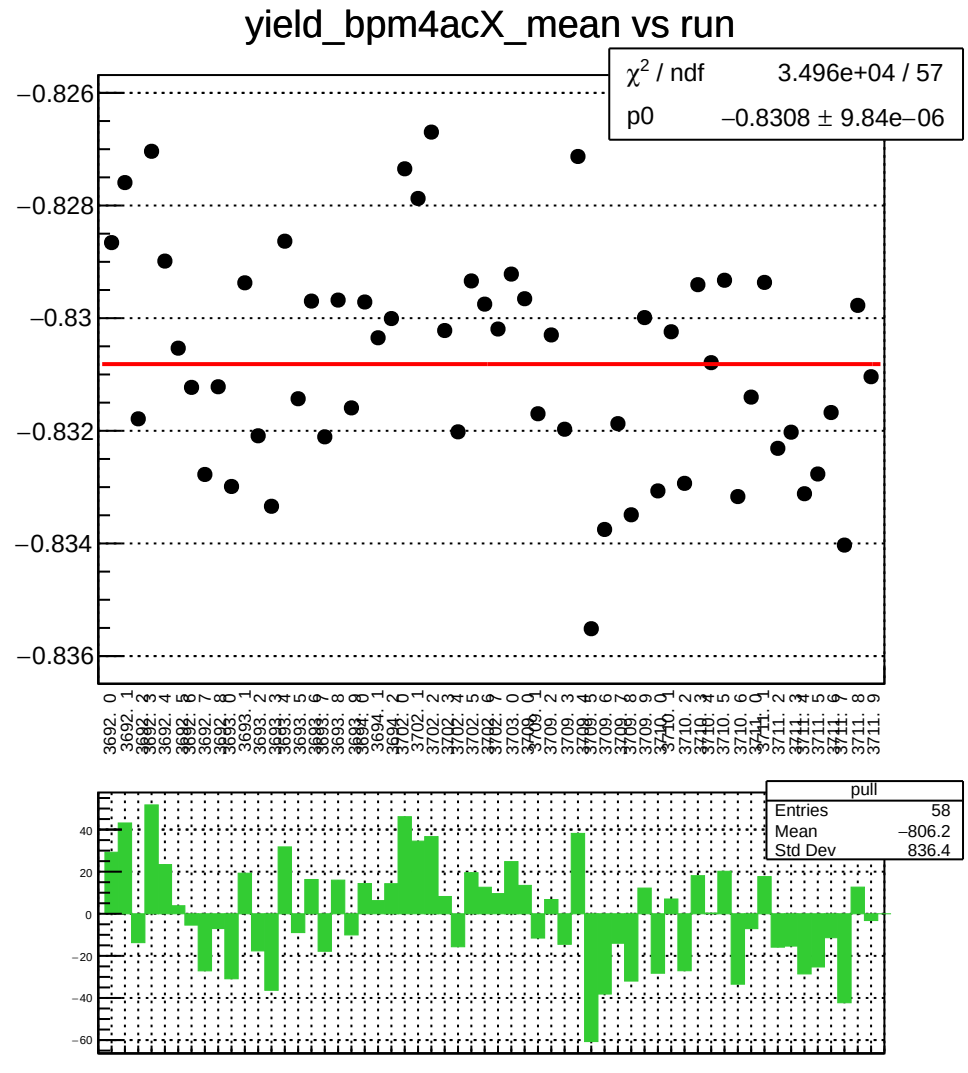

pull1D
Entries 58
Mean 0.6675
Std Dev 4.1
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

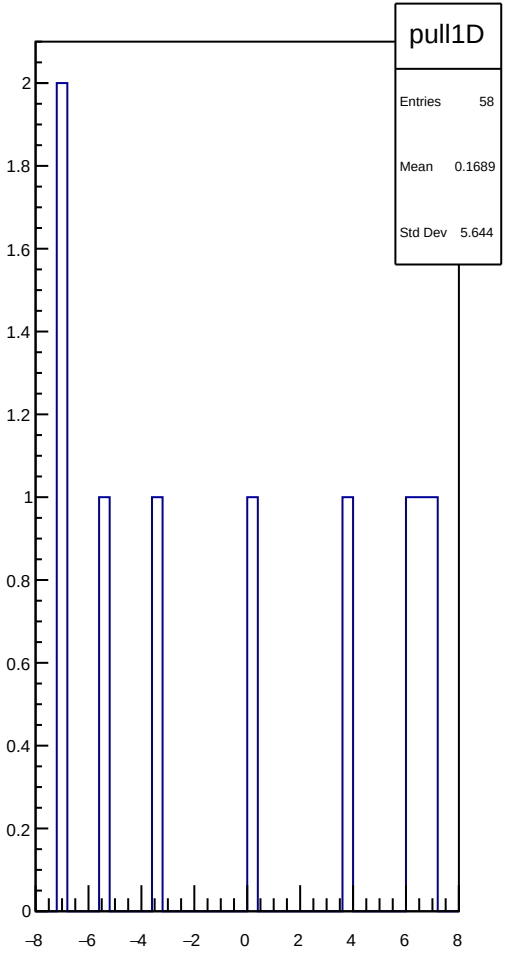

yield_bpm4eX_rms vs run
χ² / ndf 5.044e+04 / 57
p0 0.0188 ± 1.845e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

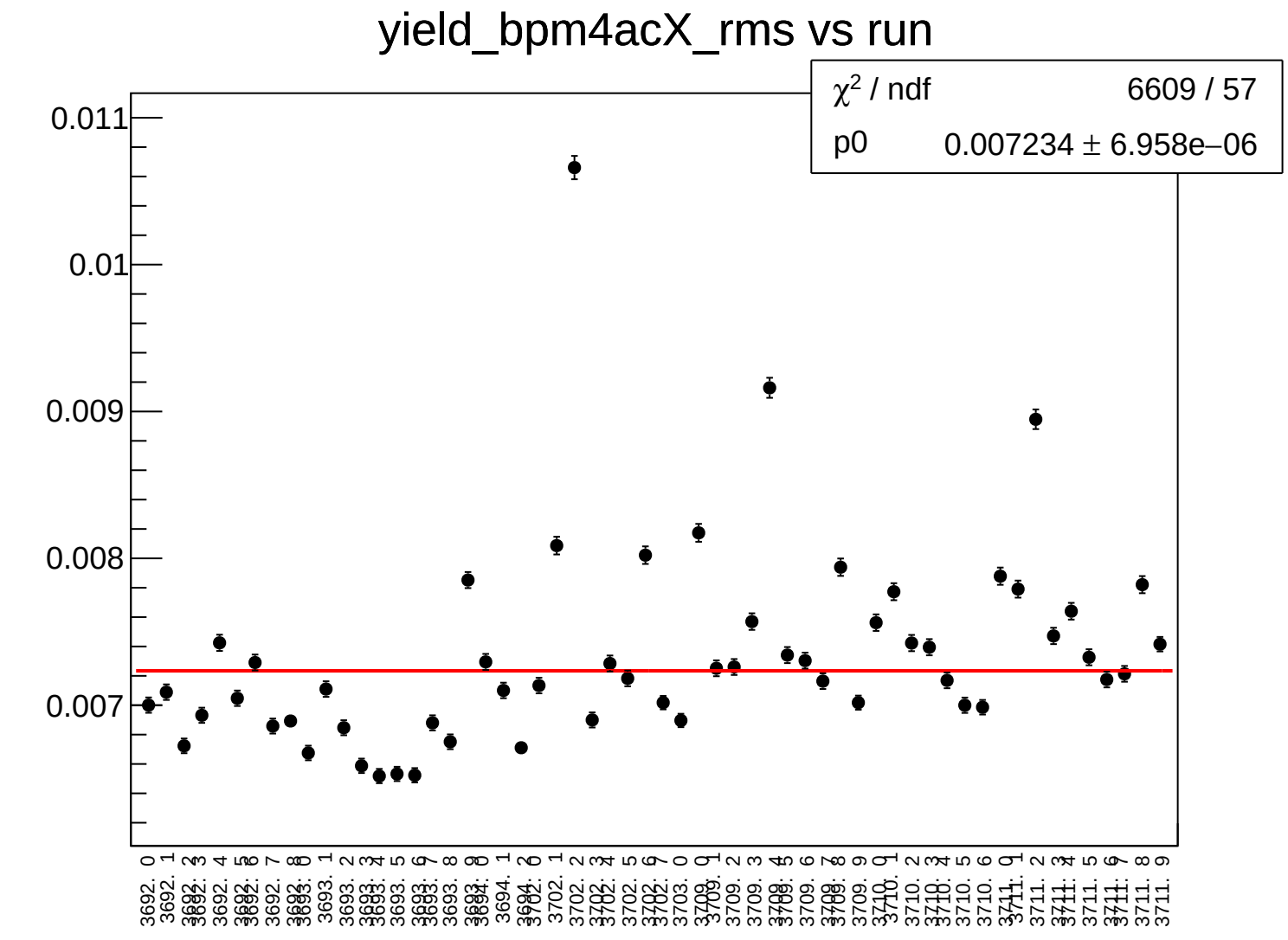

yield_bpm4eY_mean vs run
χ² / ndf 8.981e+04 / 57
p0 1.518 ± 1.239e−05
1.53
1.525
1.52
1.515
1.51
1.505
pull
Entries 58
Mean −87.09
Std Dev 115.7
100
80
60
40
20
0
−20
−40
−60
−80

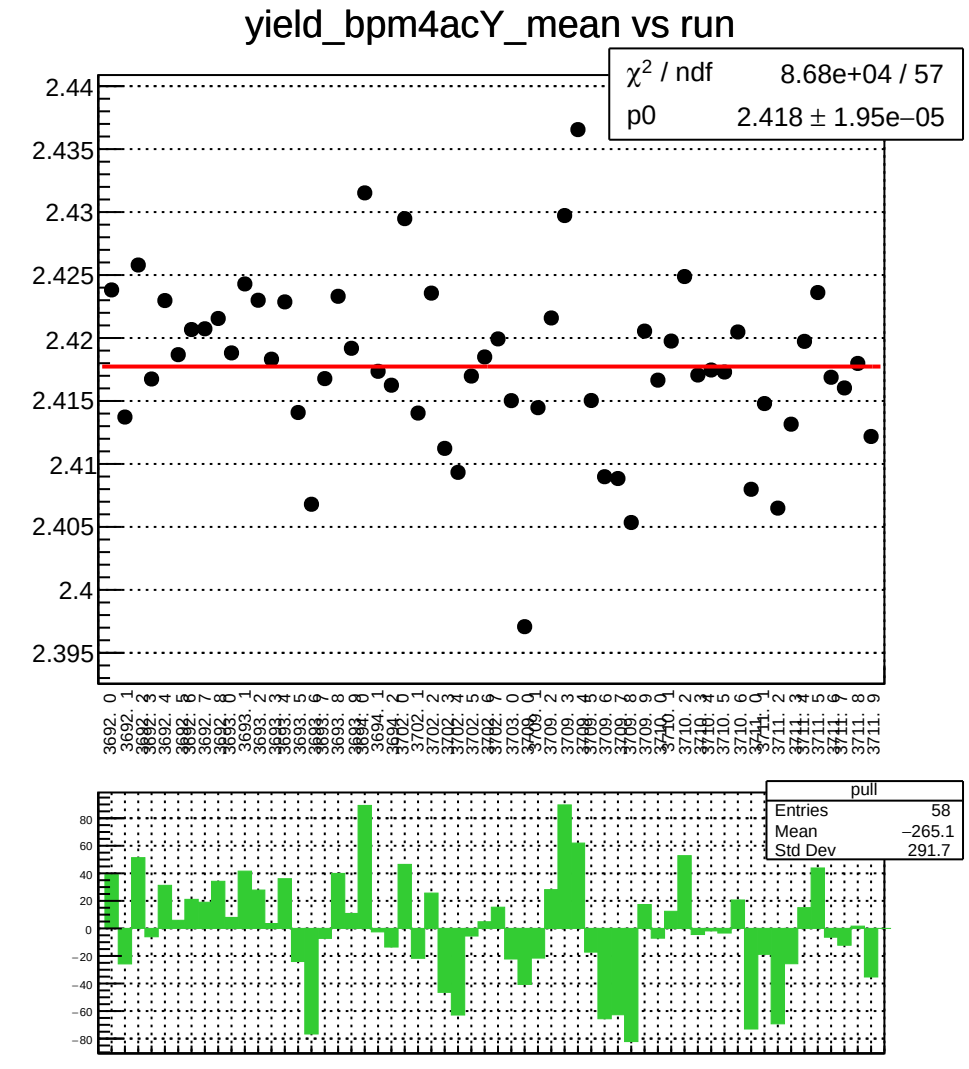

pull1D
Entries 58
Mean 0.1771
Std Dev 4.545
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

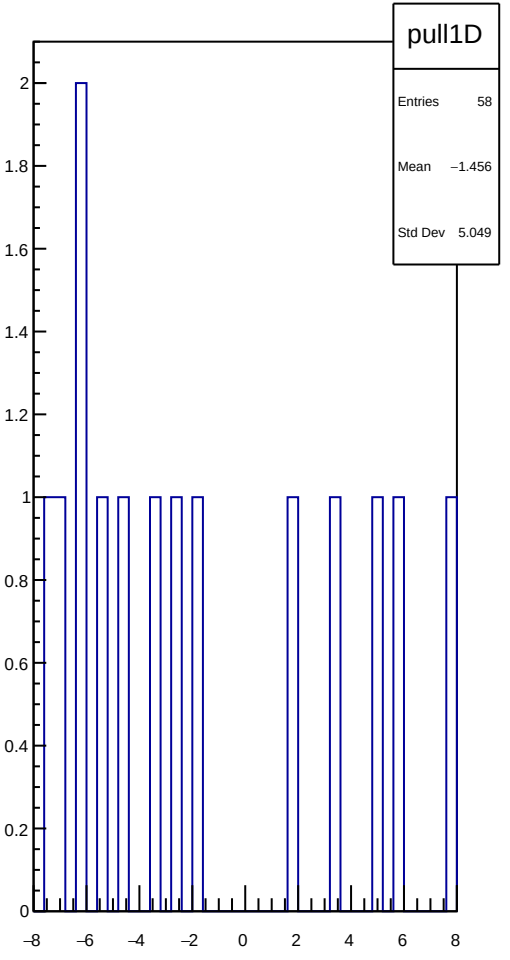

yield_bpm4eY_rms vs run
χ² / ndf 3.211e+04 / 57
p0 0.009003 ± 8.763e−06
0.035
0.03
0.025
0.02
0.015
0.01

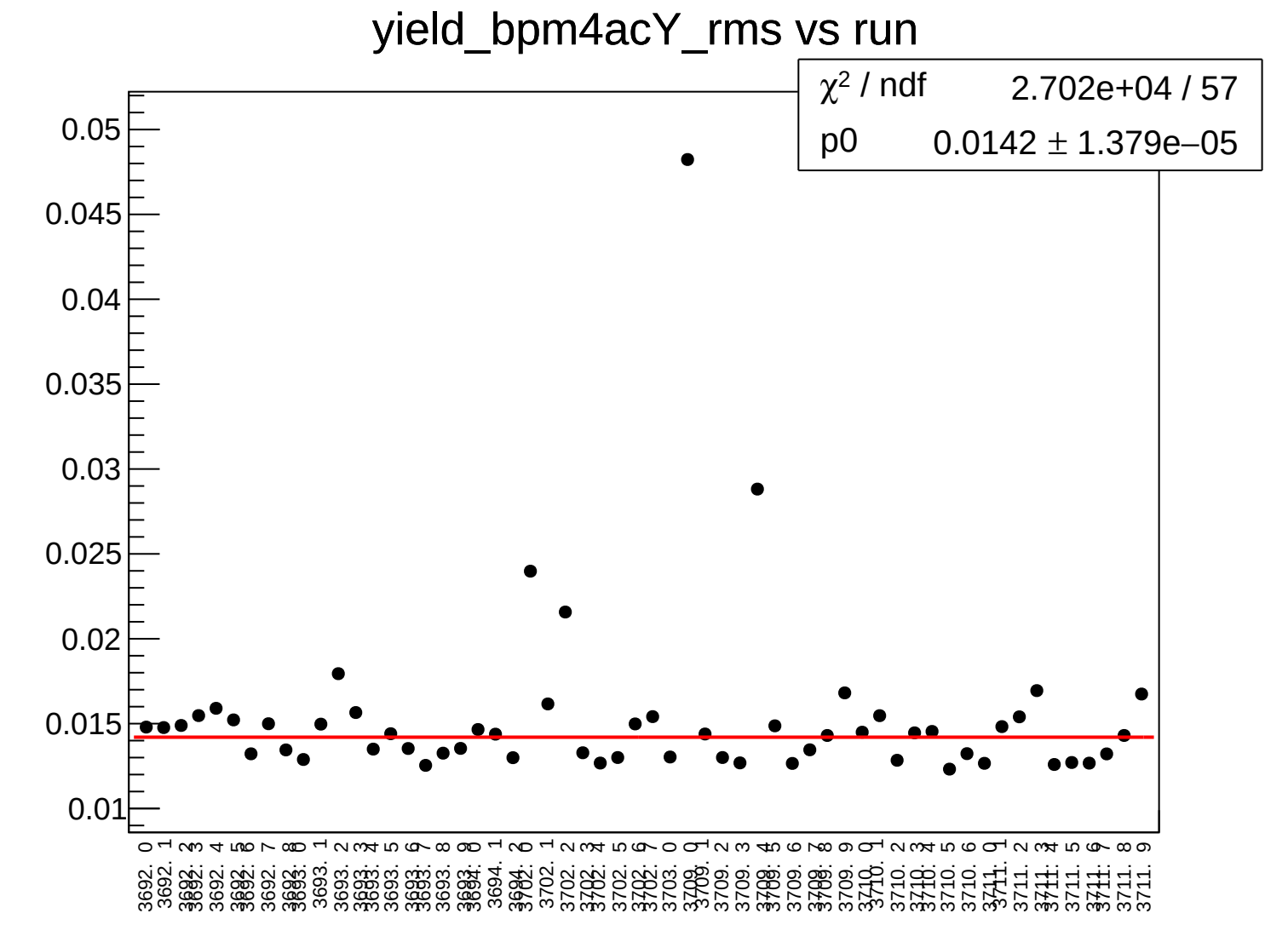

yield_bpm4acX_mean vs run
χ² / ndf 3.496e+04 / 57
p0 −0.8308 ± 9.84e−06
−0.826
−0.828
−0.83
−0.832
−0.834
−0.836
pull
Entries 58
Mean −806.2
Std Dev 836.4
40
20
0
−20
−40
−60

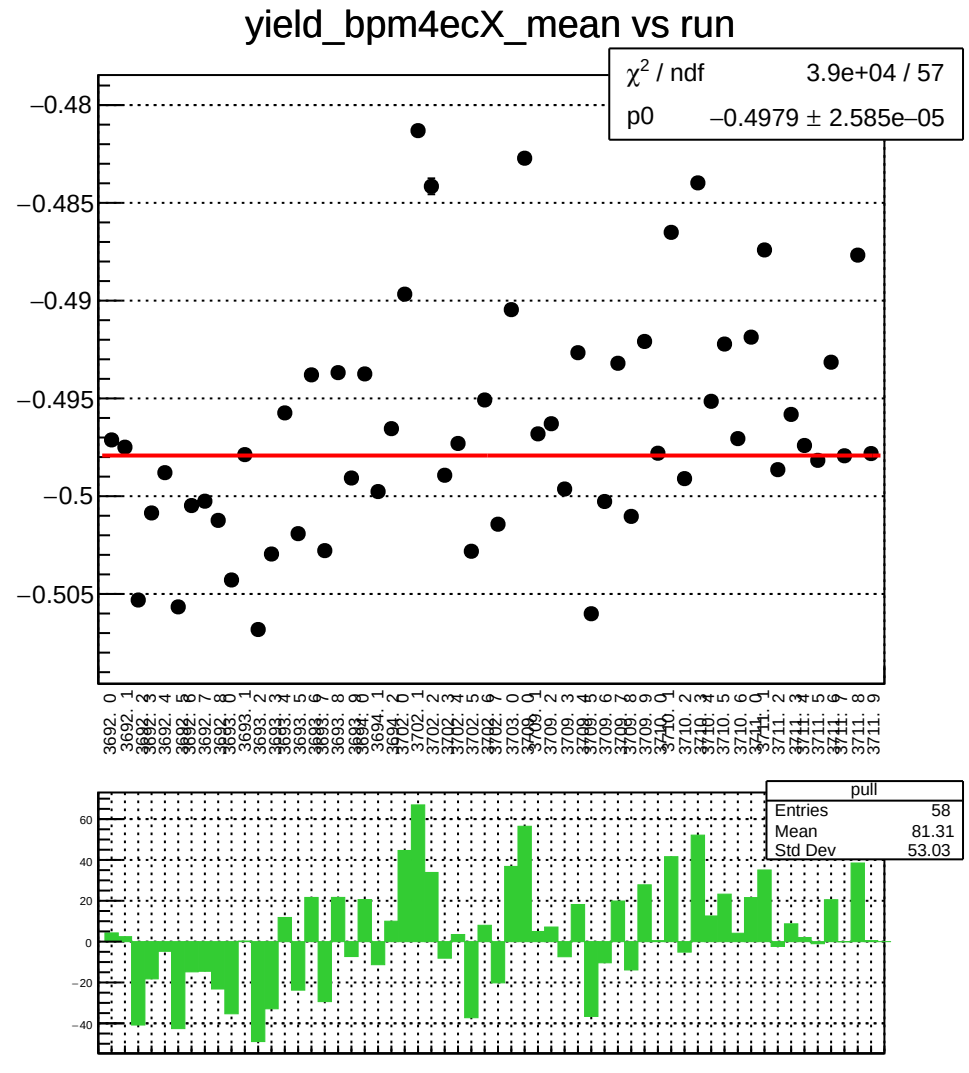

pull1D
Entries 58
Mean 0.1689
Std Dev 5.644
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

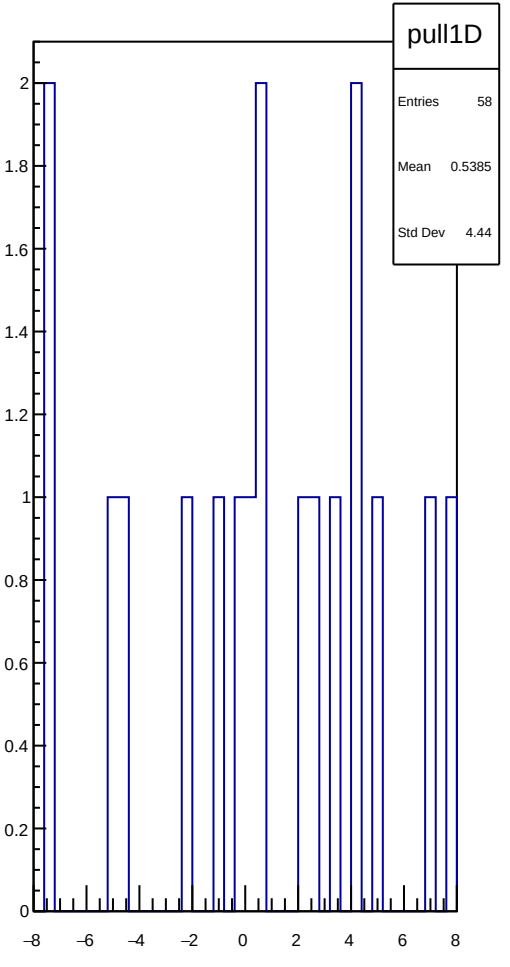

yield_bpm4acX_rms vs run
χ² / ndf 6609 / 57
p0 0.007234 ± 6.958e−06
0.011
0.01
0.009
0.008
0.007

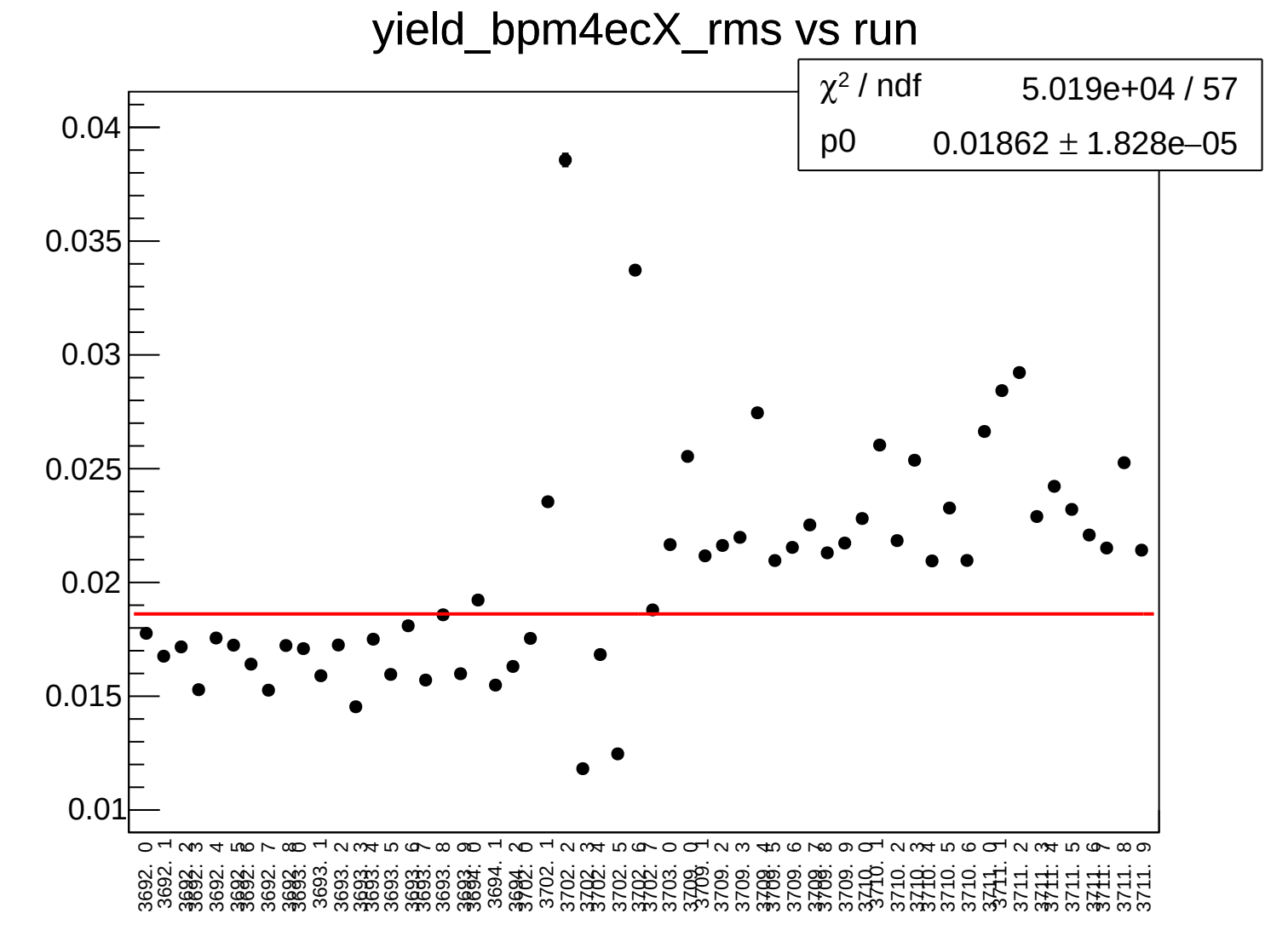

yield_bpm4acY_mean vs run
χ² / ndf 8.68e+04 / 57
p0 2.418 ± 1.95e−05
pull
Entries 58
Mean −265.1
Std Dev 291.7

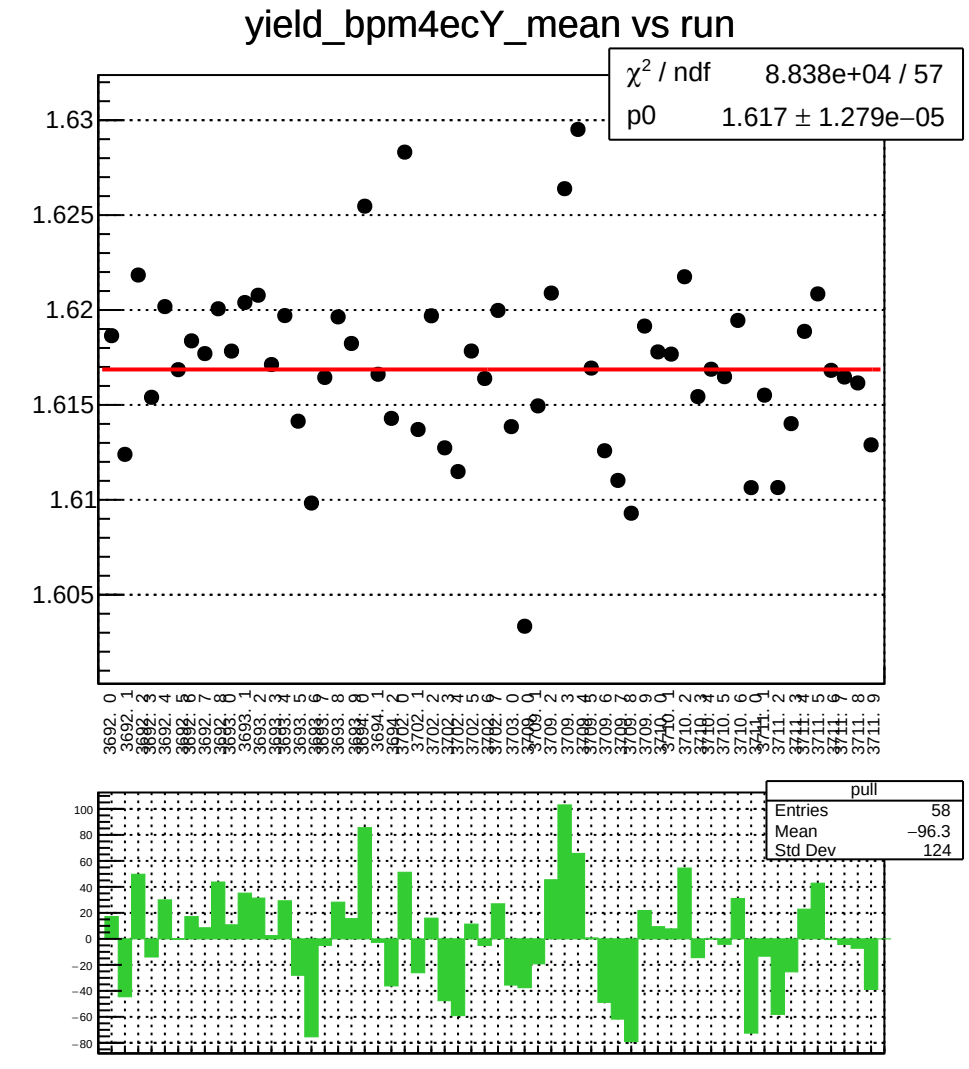

pull1D
Entries 58
Mean −1.456
Std Dev 5.049

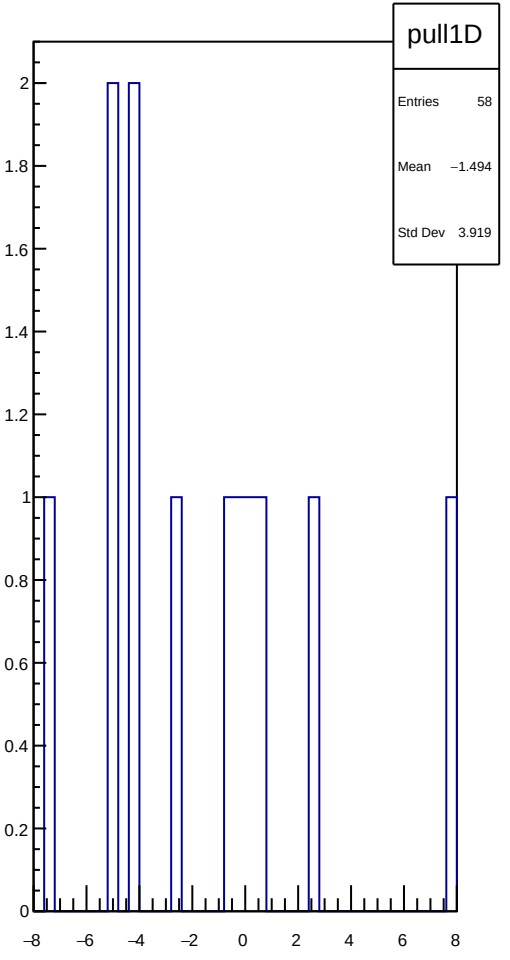

yield_bpm4acY_rms vs run
χ² / ndf 2.702e+04 / 57
p0 0.0142 ± 1.379e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

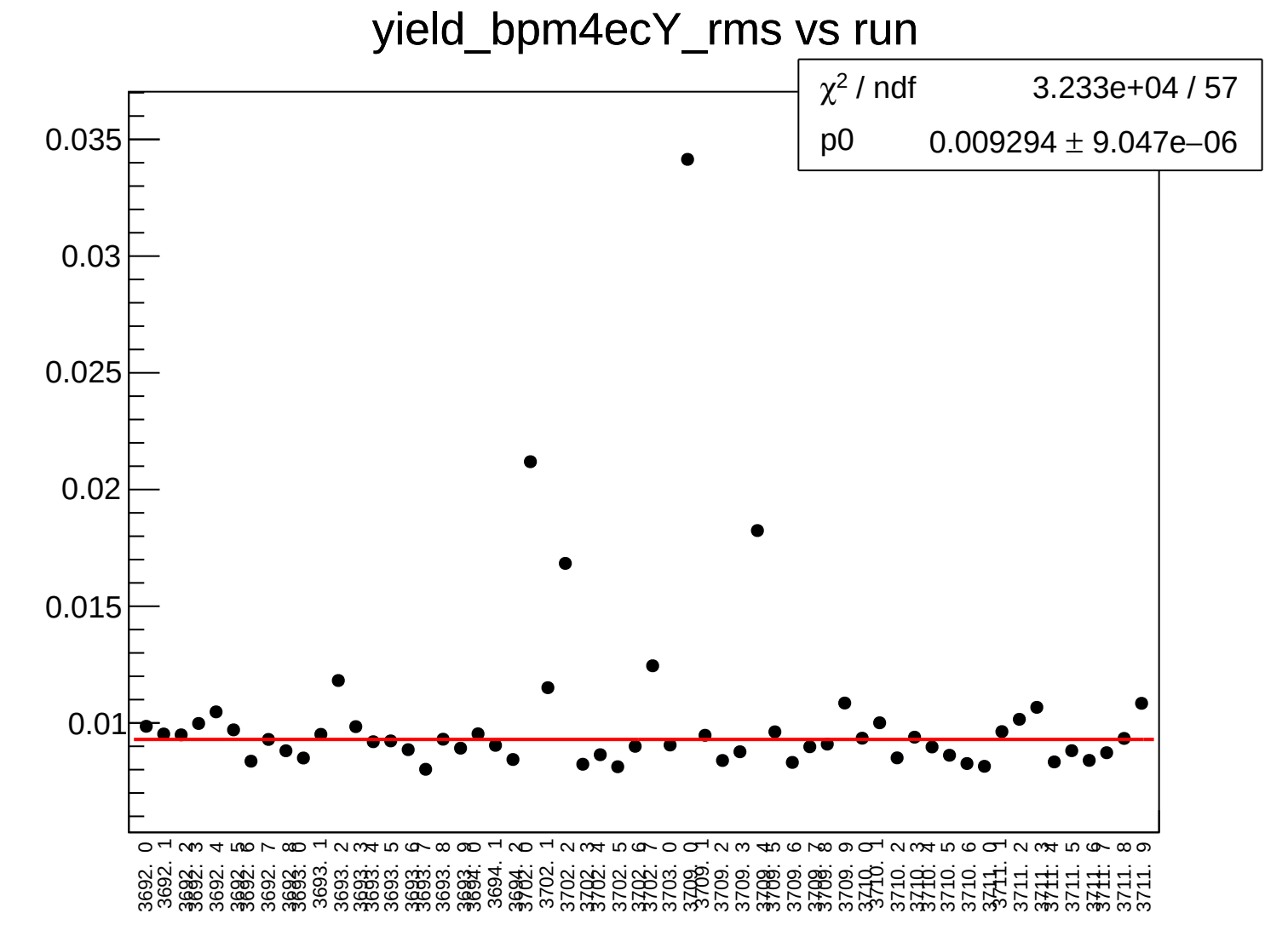

yield_bpm4ecX_mean vs run
χ² / ndf 3.9e+04 / 57
p0 −0.4979 ± 2.585e−05
−0.48
−0.485
−0.49
−0.495
−0.5
−0.505
pull
Entries 58
Mean 81.31
Std Dev 53.03
60
40
20
0
−20
−40

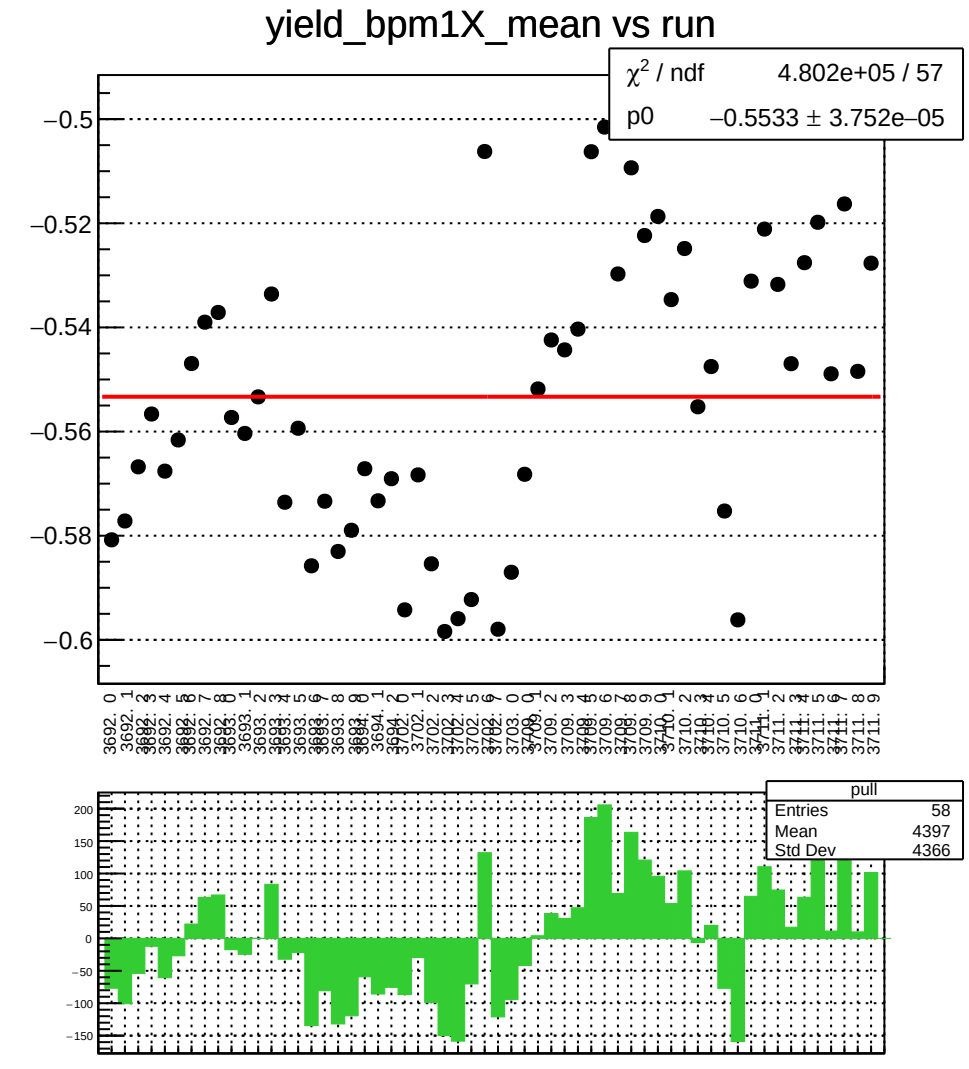

pull1D
Entries 58
Mean 0.5385
Std Dev 4.44
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

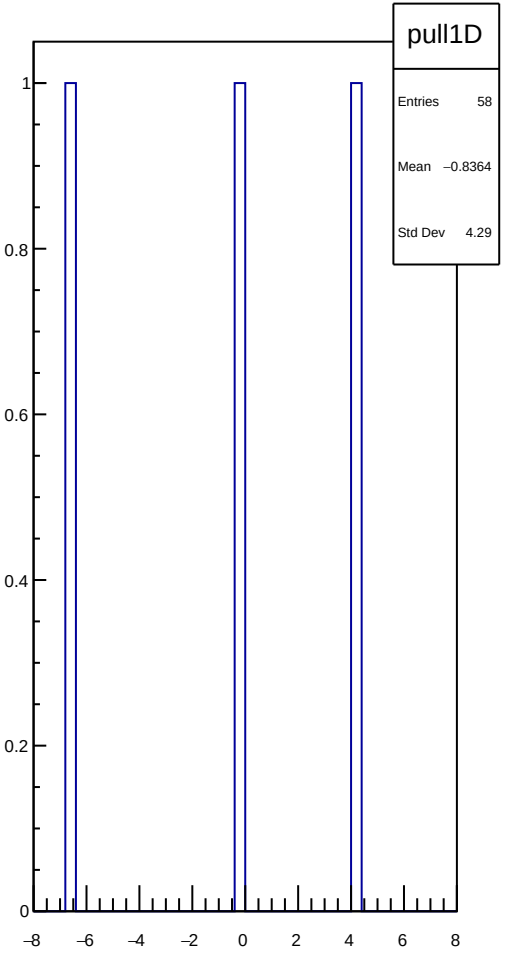

yield_bpm4ecX_rms vs run
χ² / ndf 5.019e+04 / 57
p0 0.01862 ± 1.828e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

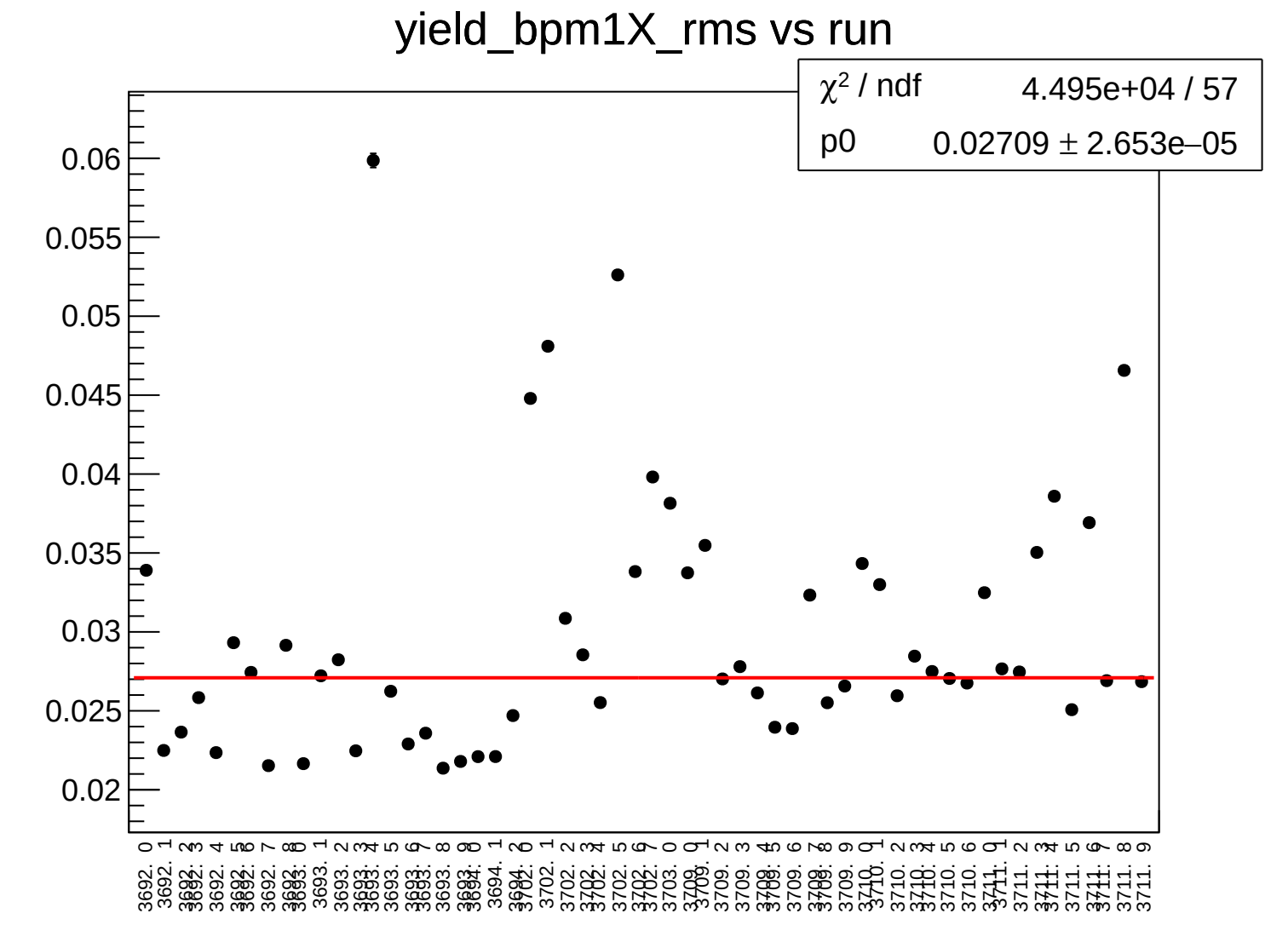

yield_bpm4ecY_mean vs run
χ² / ndf 8.838e+04 / 57
p0 1.617 ± 1.279e−05
1.63
1.625
1.62
1.615
1.61
1.605
pull
Entries 58
Mean −96.3
Std Dev 124
100
80
60
40
20
0
−20
−40
−60
−80

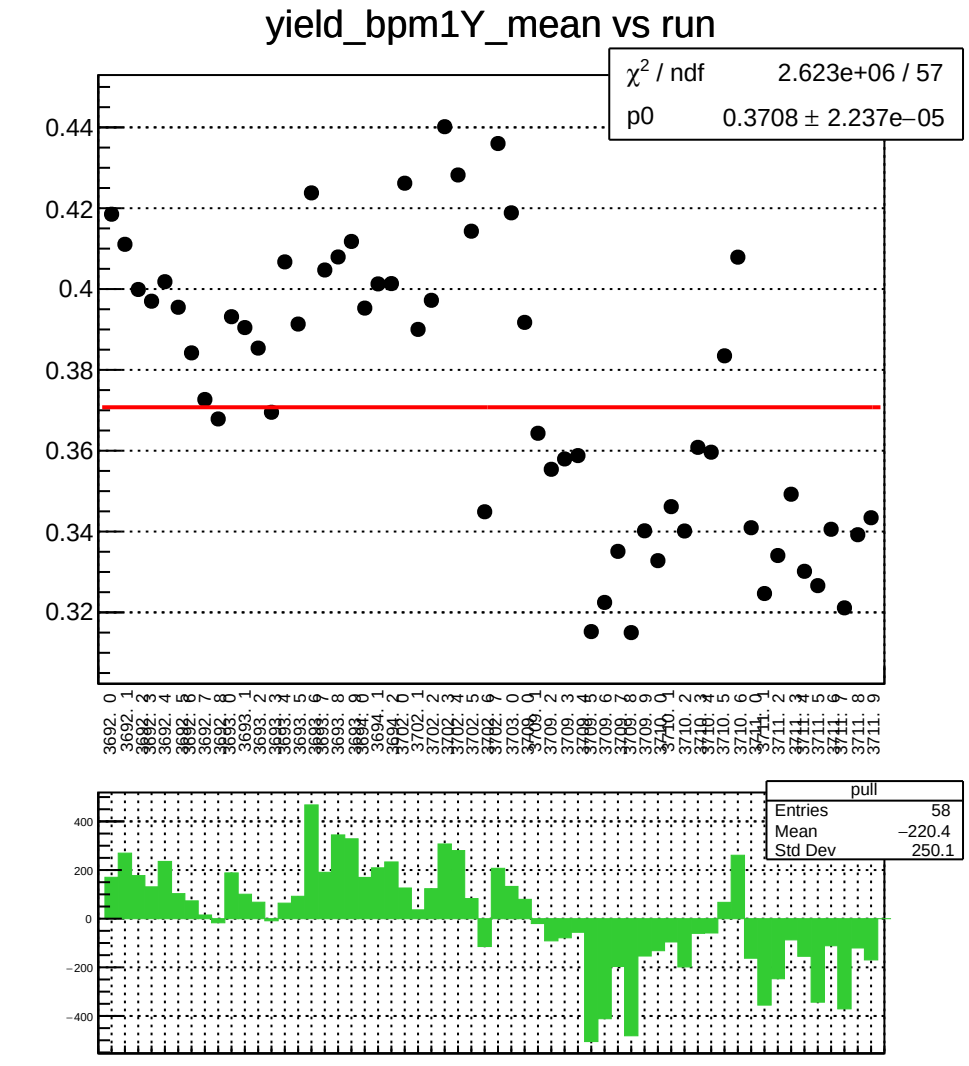

pull1D
Entries 58
Mean −1.494
Std Dev 3.919
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

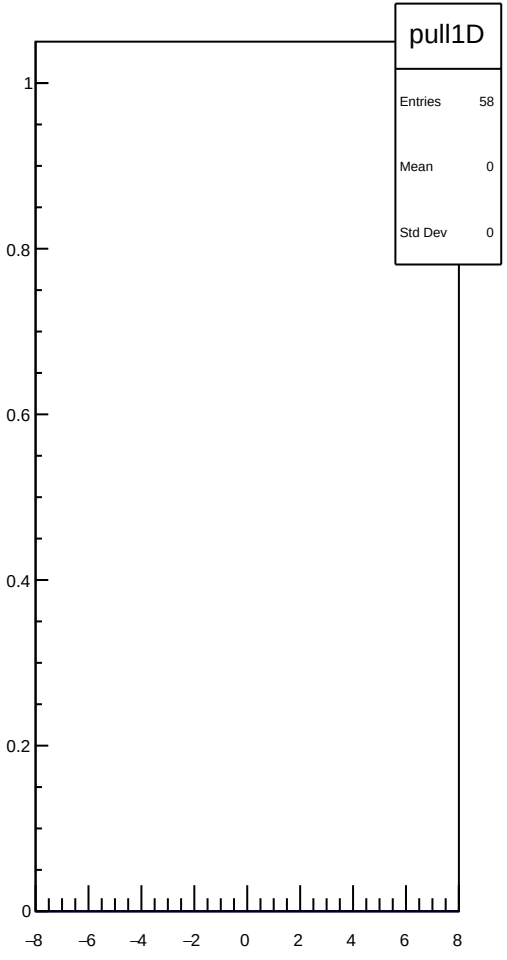

yield_bpm4ecY_rms vs run
χ² / ndf 3.233e+04 / 57
p0 0.009294 ± 9.047e−06
0.035
0.03
0.025
0.02
0.015
0.01

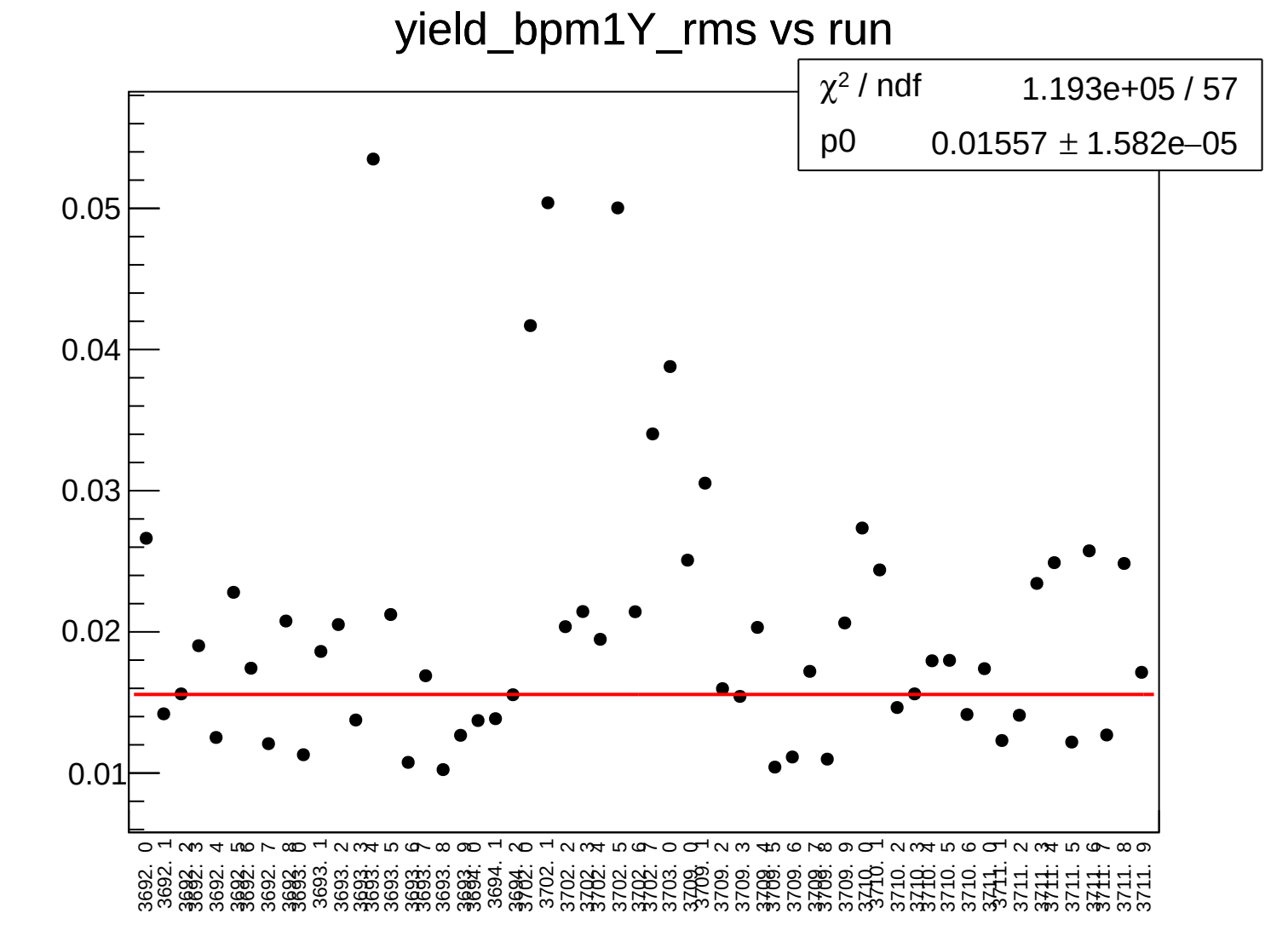

yield_bpm1X_mean vs run
χ² / ndf 4.802e+05 / 57
p0 −0.5533 ± 3.752e−05
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
pull
Entries 58
Mean 4397
Std Dev 4366
200
150
100
50
0
−50
−100
−150

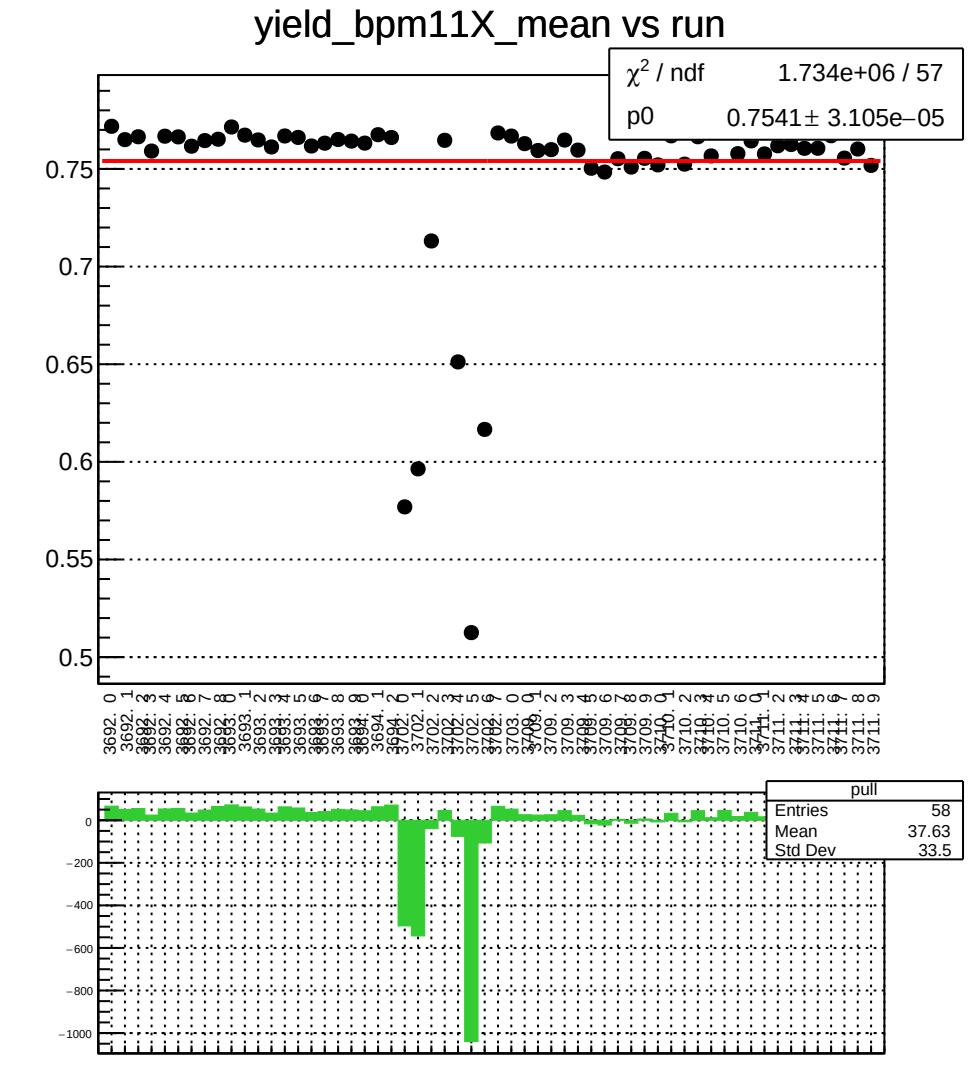

pull1D
Entries 58
Mean −0.8364
Std Dev 4.29
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

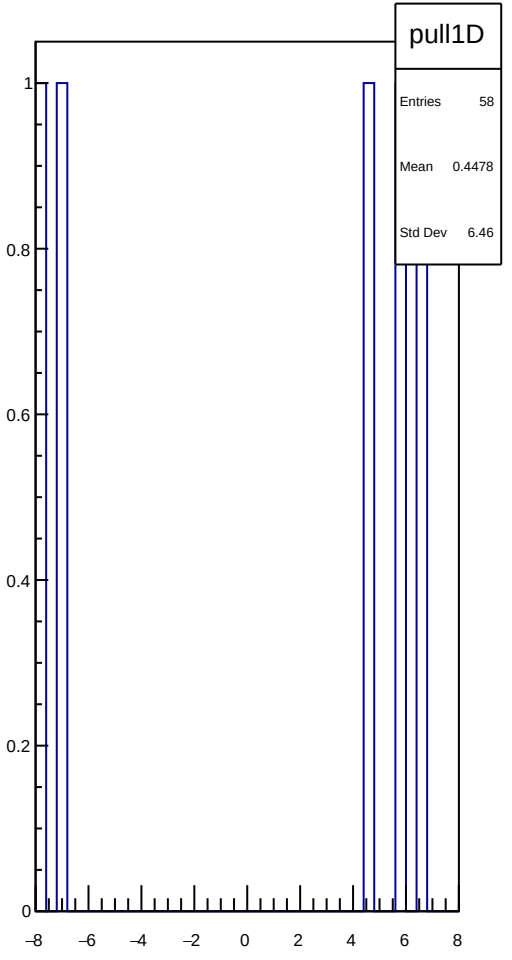

yield_bpm1X_rms vs run
χ² / ndf 4.495e+04 / 57
p0 0.02709 ± 2.653e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

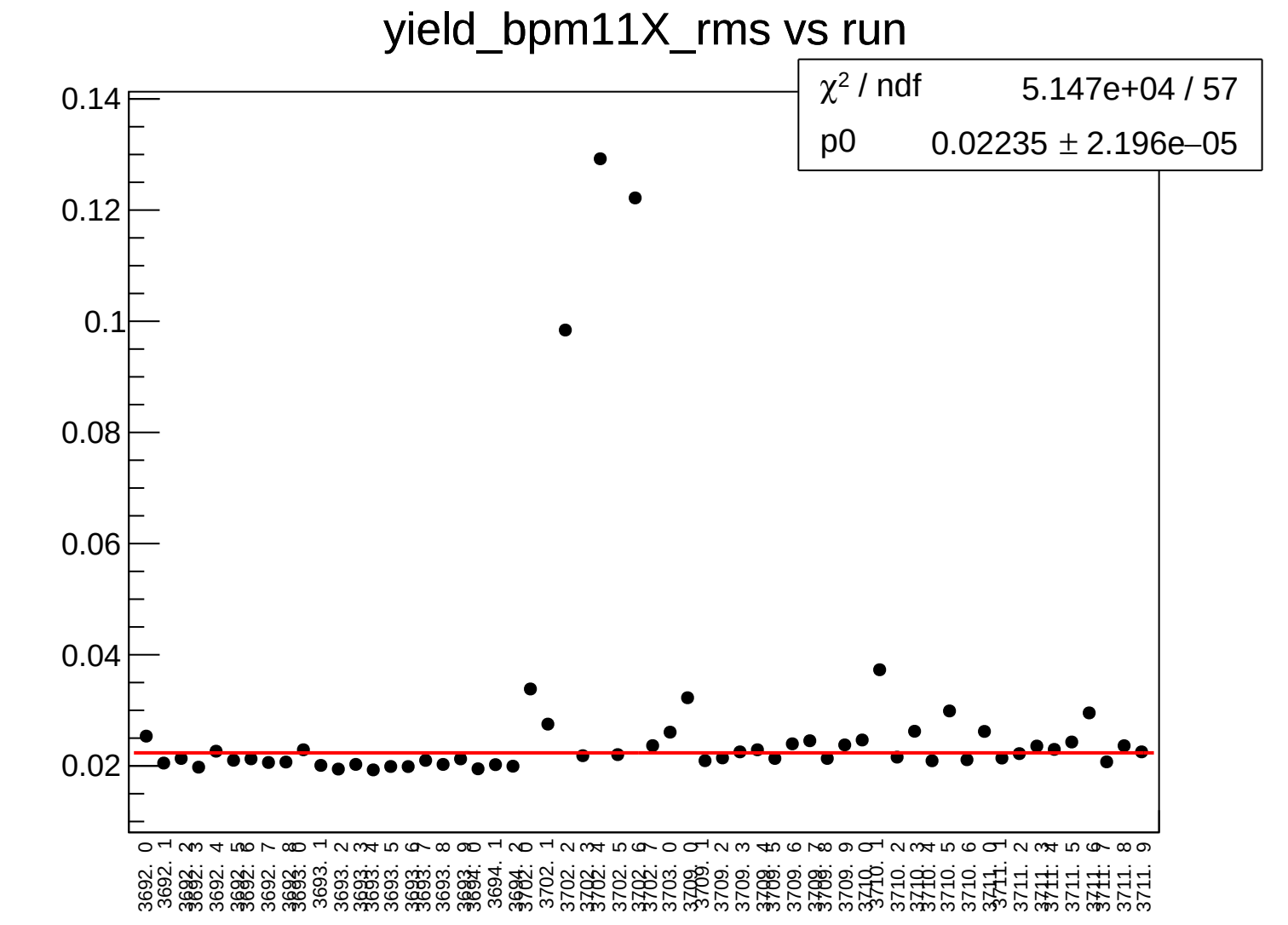

yield_bpm1Y_mean vs run
χ² / ndf 2.623e+06 / 57
p0 0.3708 ± 2.237e−05
0.44
0.42
0.4
0.38
0.36
0.34
0.32
pull
Entries 58
Mean −220.4
Std Dev 250.1
400
200
0
−200
−400

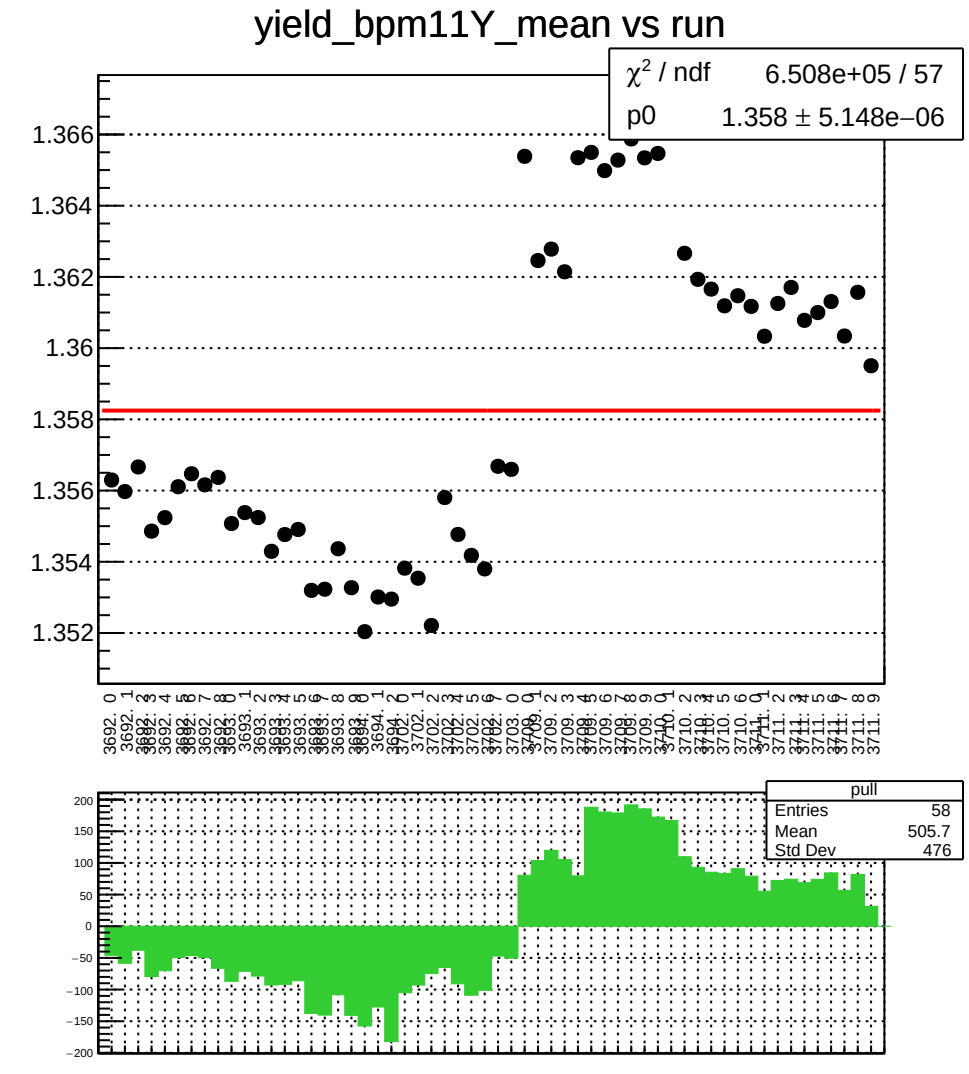

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

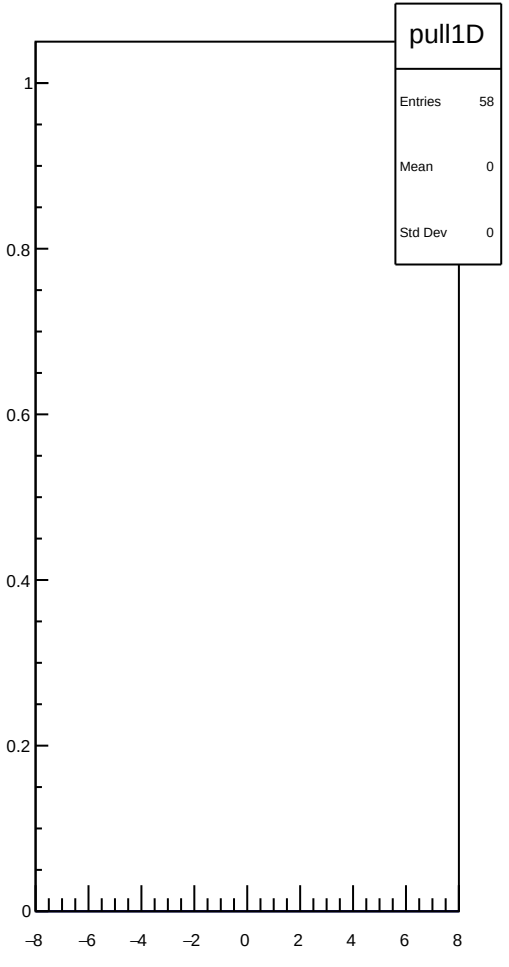

yield_bpm1Y_rms vs run
χ² / ndf 1.193e+05 / 57
p0 0.01557 ± 1.582e−05
0.05
0.04
0.03
0.02
0.01

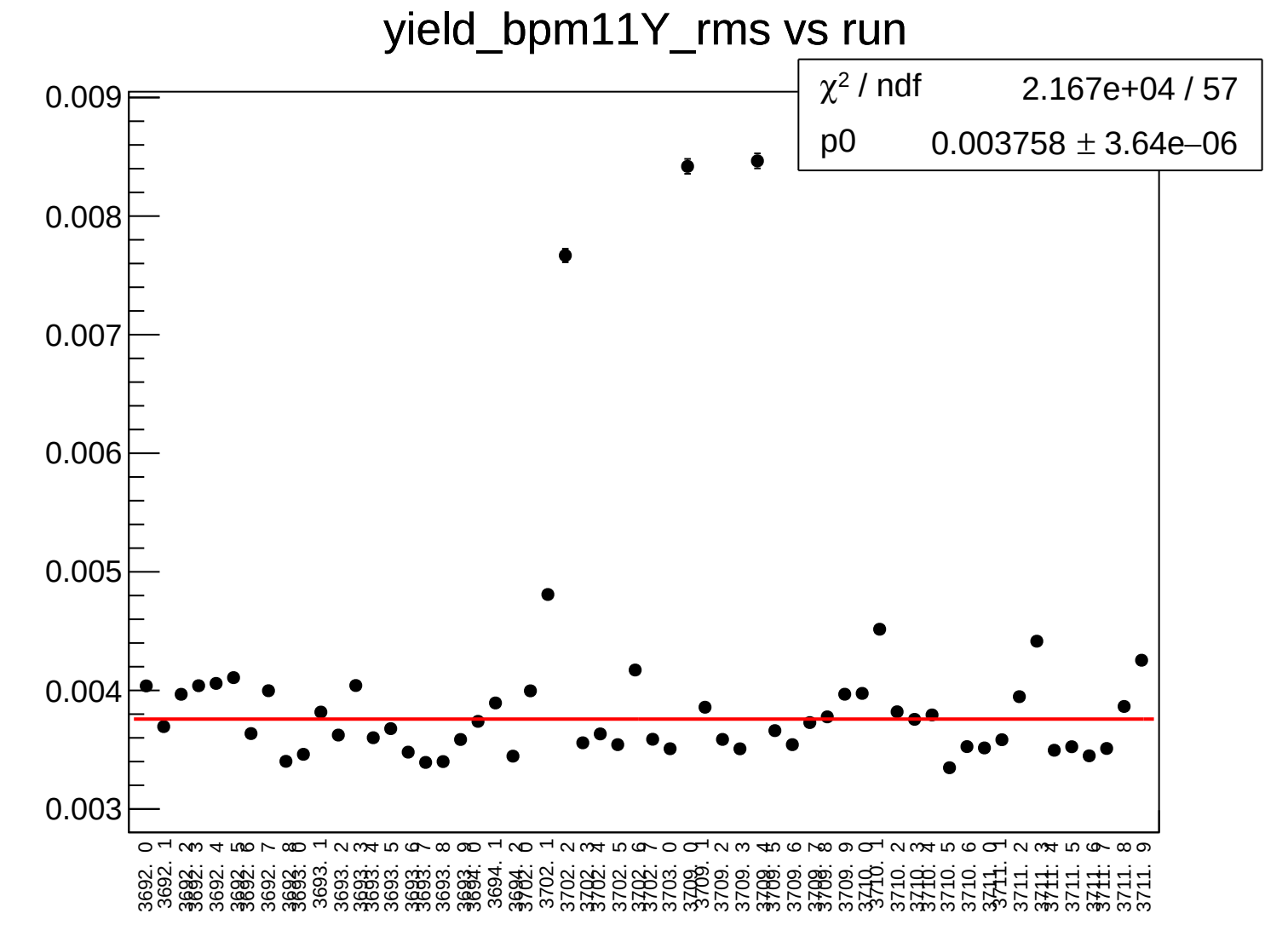

yield_bpm11X_mean vs run
χ² / ndf 1.734e+06 / 57
p0 0.7541 ± 3.105e−05
0.75
0.7
0.65
0.6
0.55
0.5
pull
Entries 58
Mean 37.63
Std Dev 33.5
0
−200
−400
−600
−800
−1000

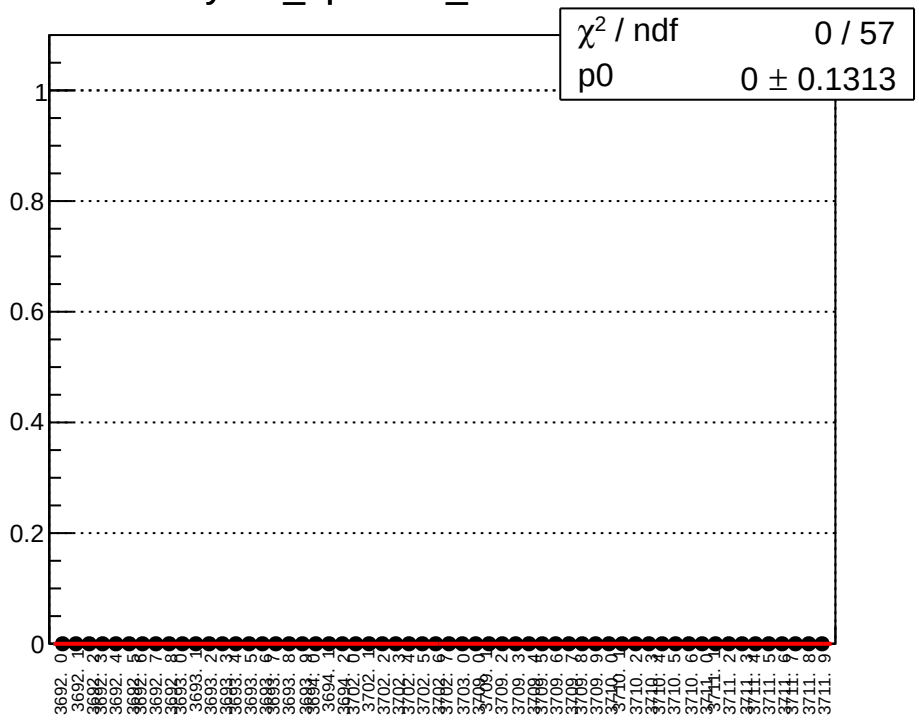

pull1D
Entries 58
Mean 0.4478
Std Dev 6.46
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

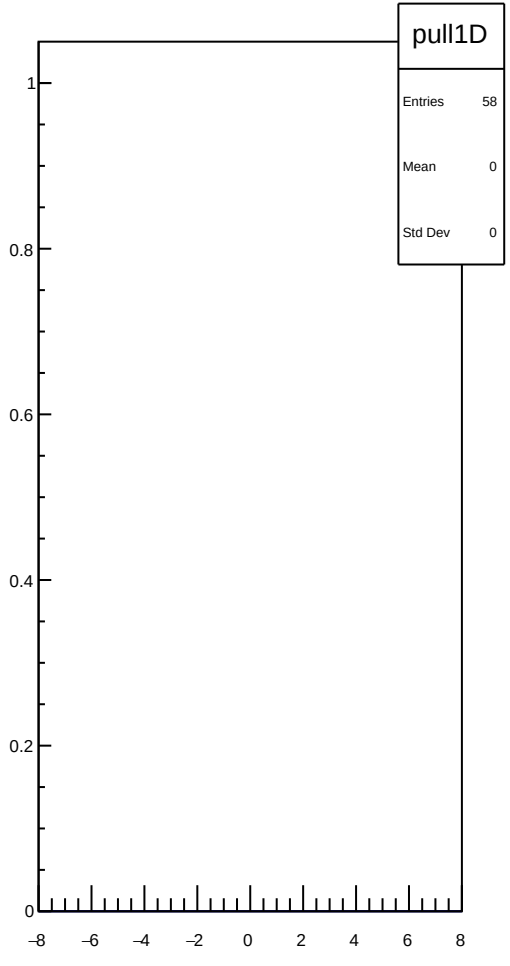

yield_bpm11X_rms vs run
χ² / ndf 5.147e+04 / 57
p0 0.02235 ± 2.196e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

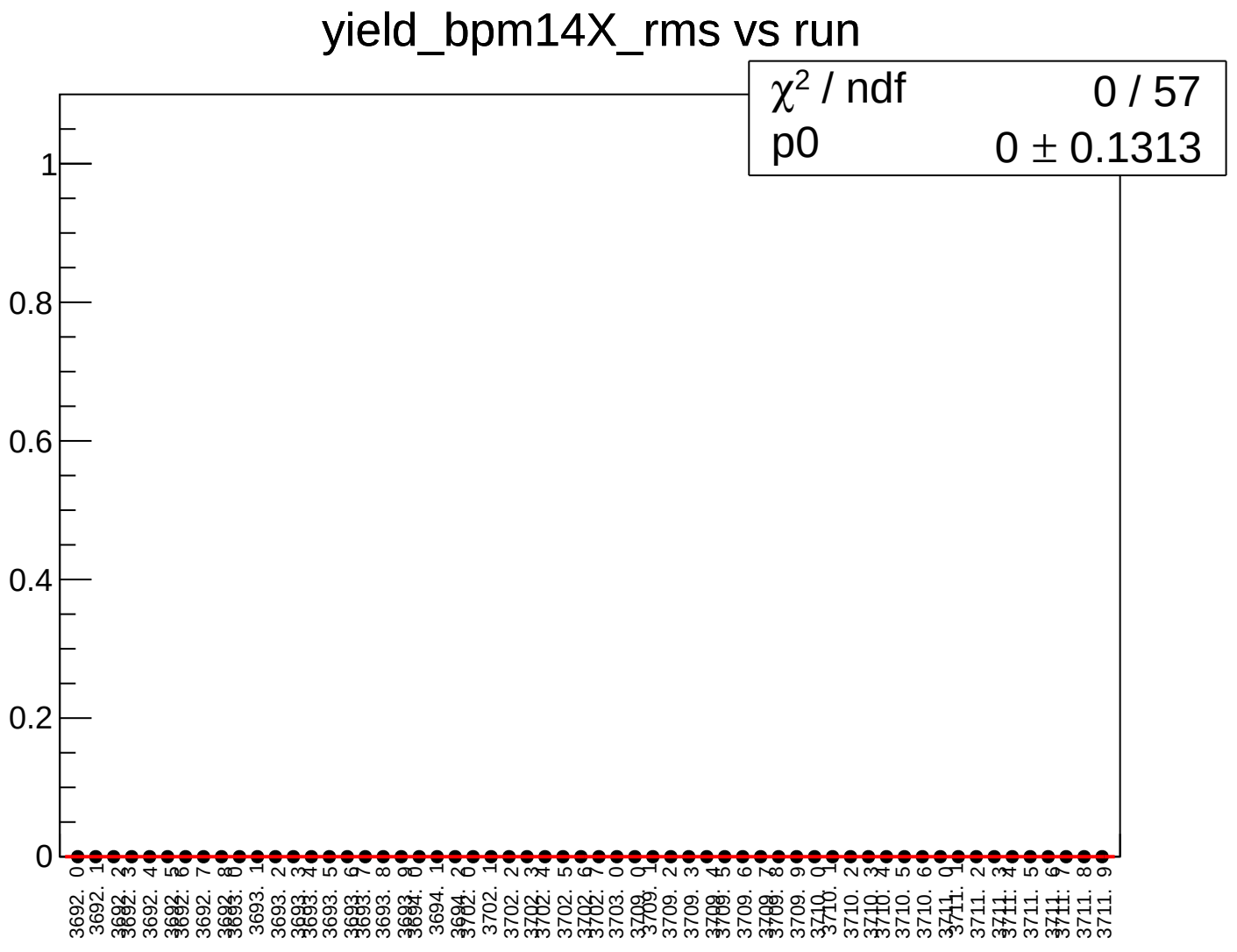

yield_bpm11Y_mean vs run
χ² / ndf 6.508e+05 / 57
p0 1.358 ± 5.148e−06
1.366
1.364
1.362
1.36
1.358
1.356
1.354
1.352
pull
Entries 58
Mean 505.7
Std Dev 476
200
150
100
50
0
−50
−100
−150
−200

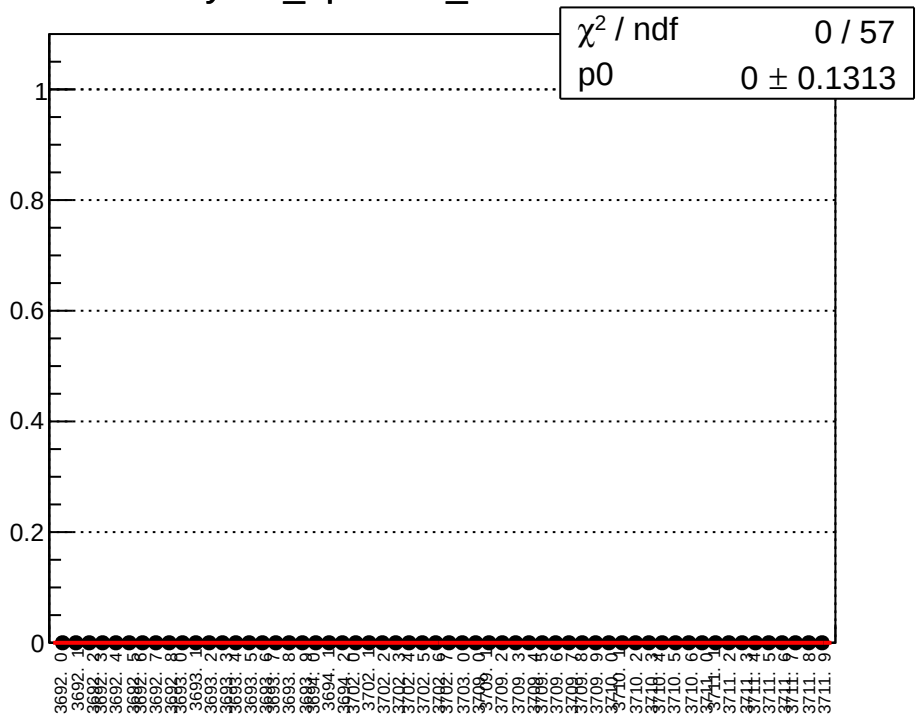

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

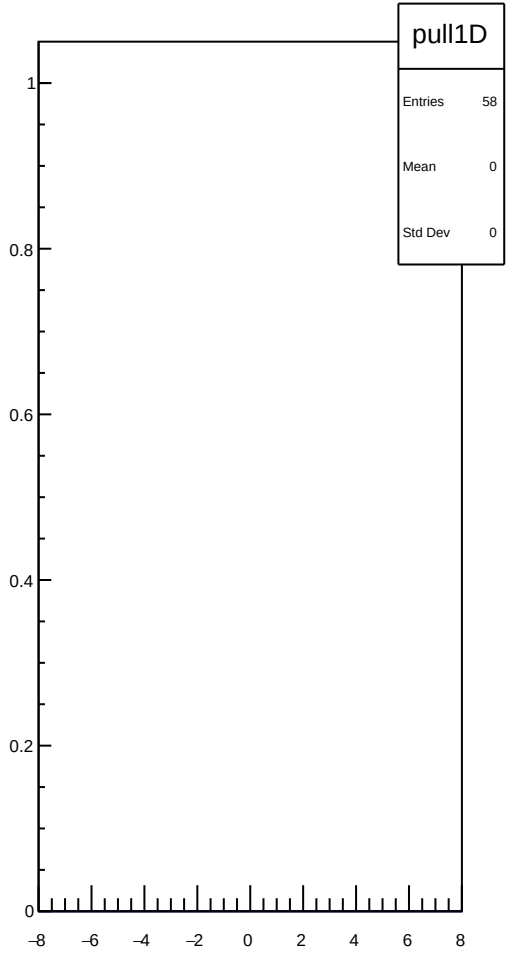

yield_bpm11Y_rms vs run
χ² / ndf 2.167e+04 / 57
p0 0.003758 ± 3.64e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

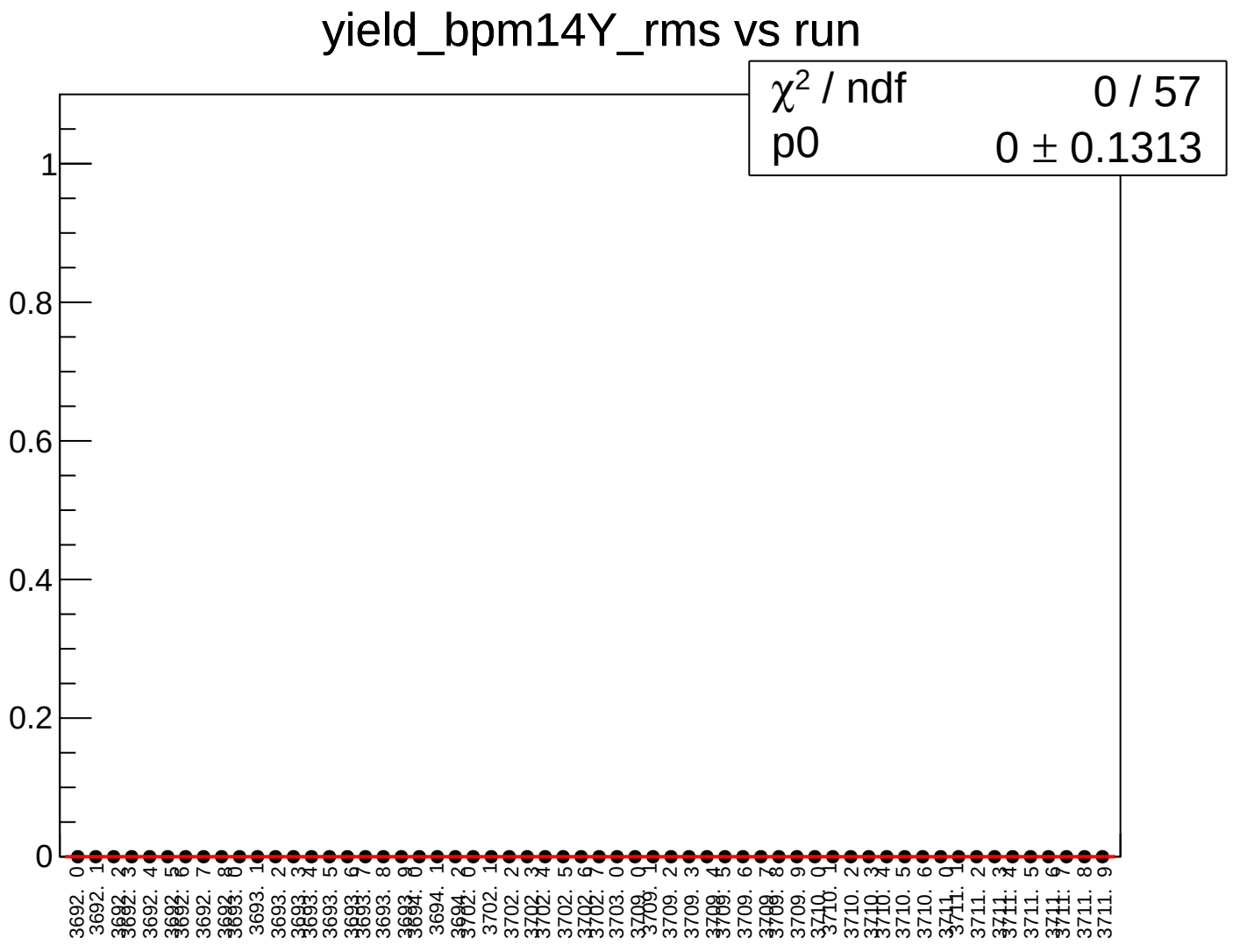

yield_bpm14X_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

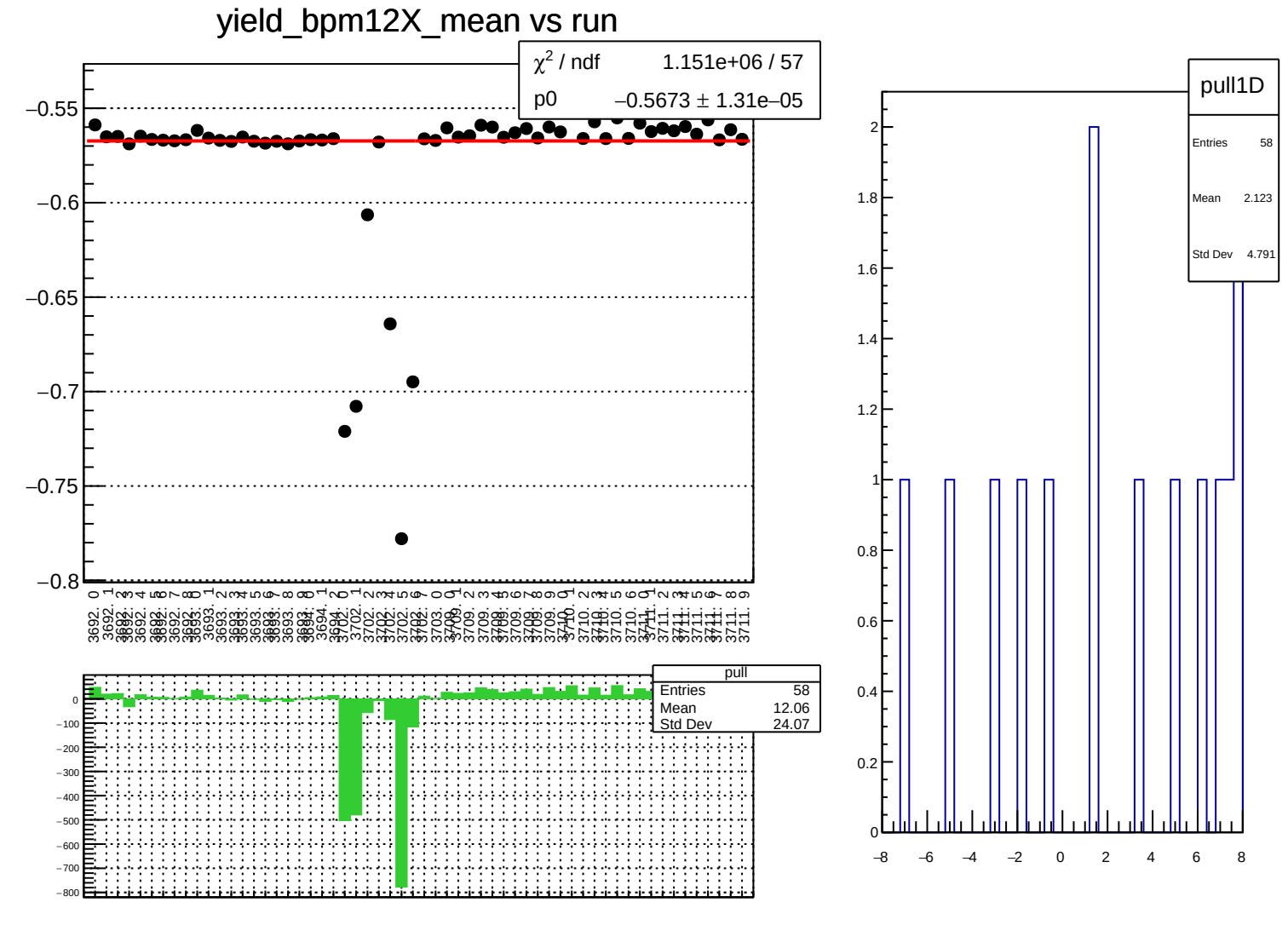

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

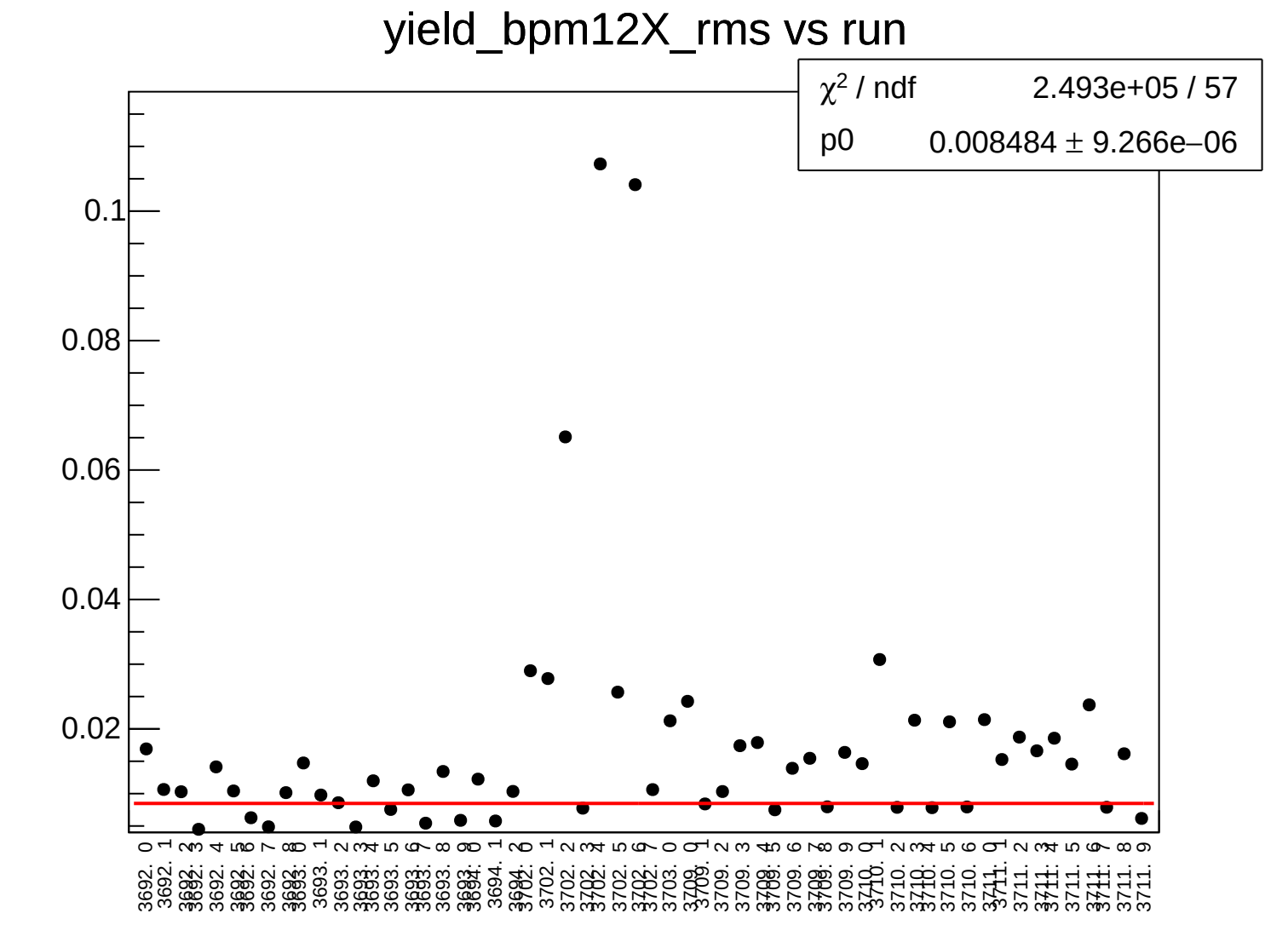

yield_bpm14X_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

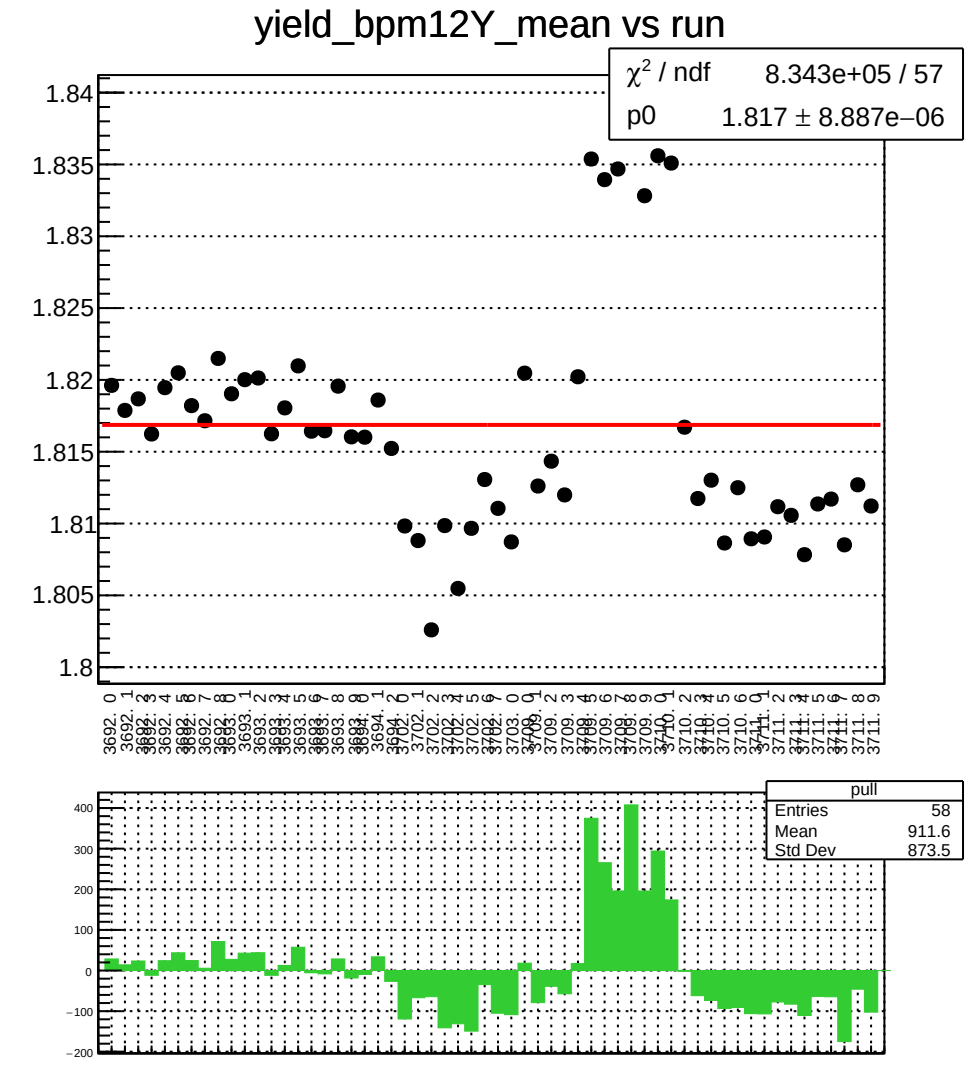

yield_bpm14Y_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

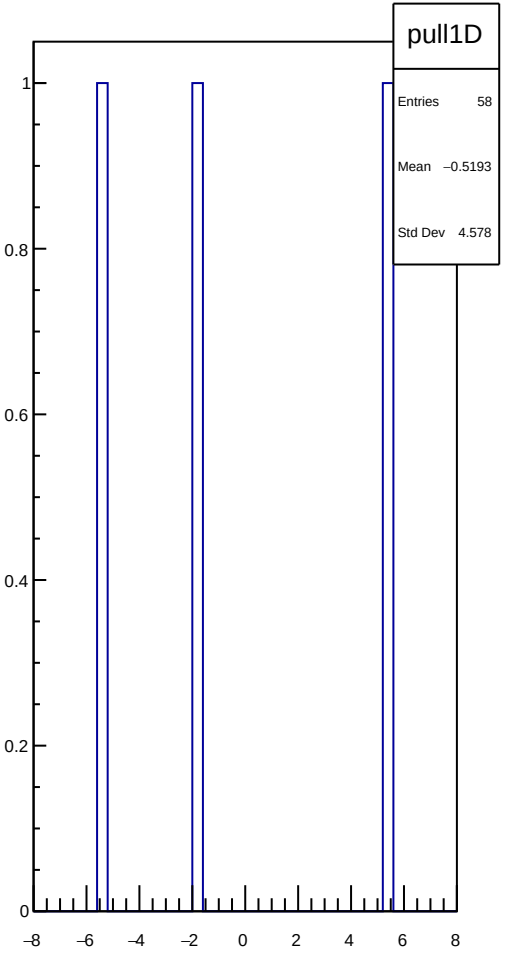

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

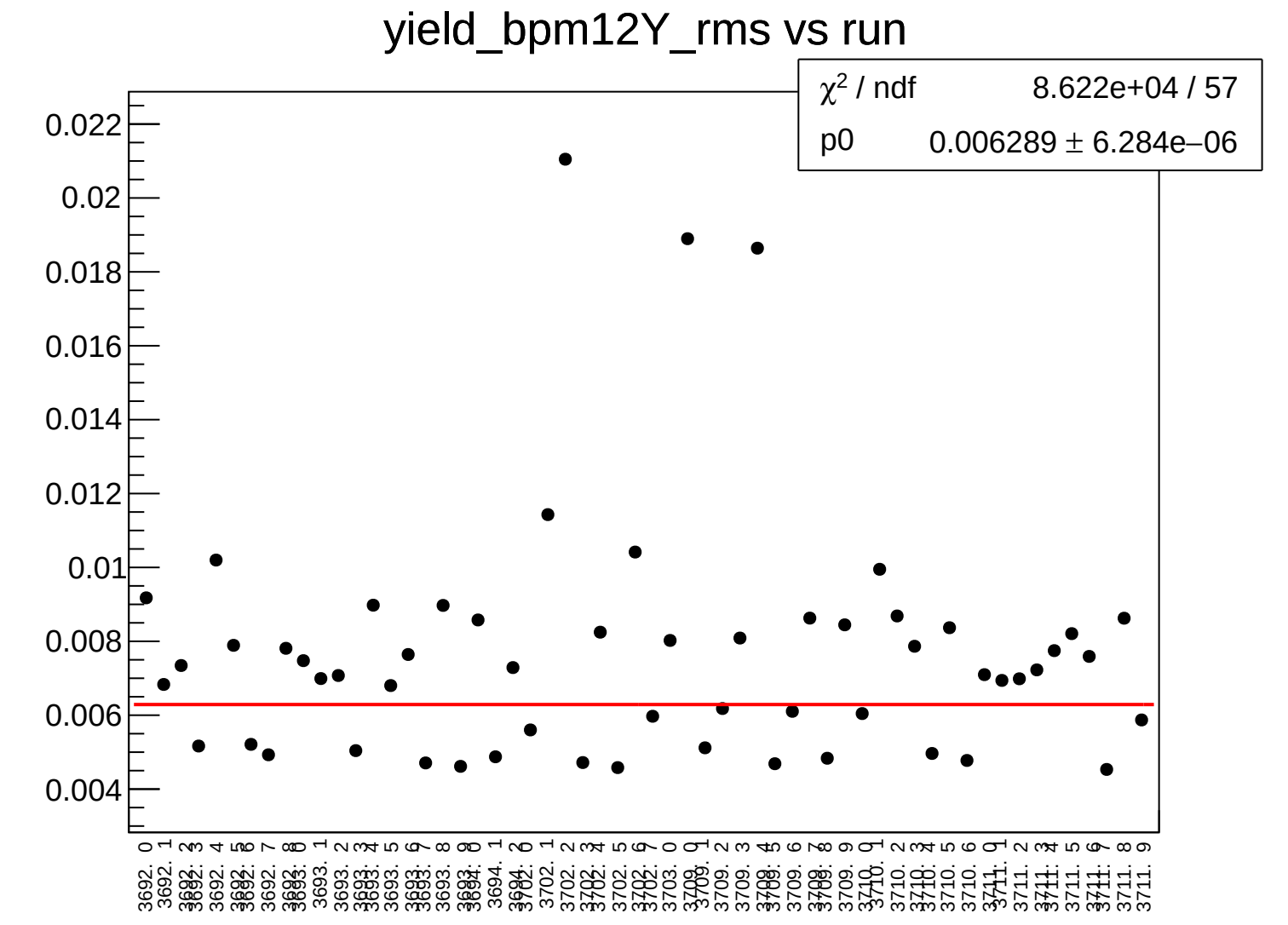

yield_bpm14Y_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

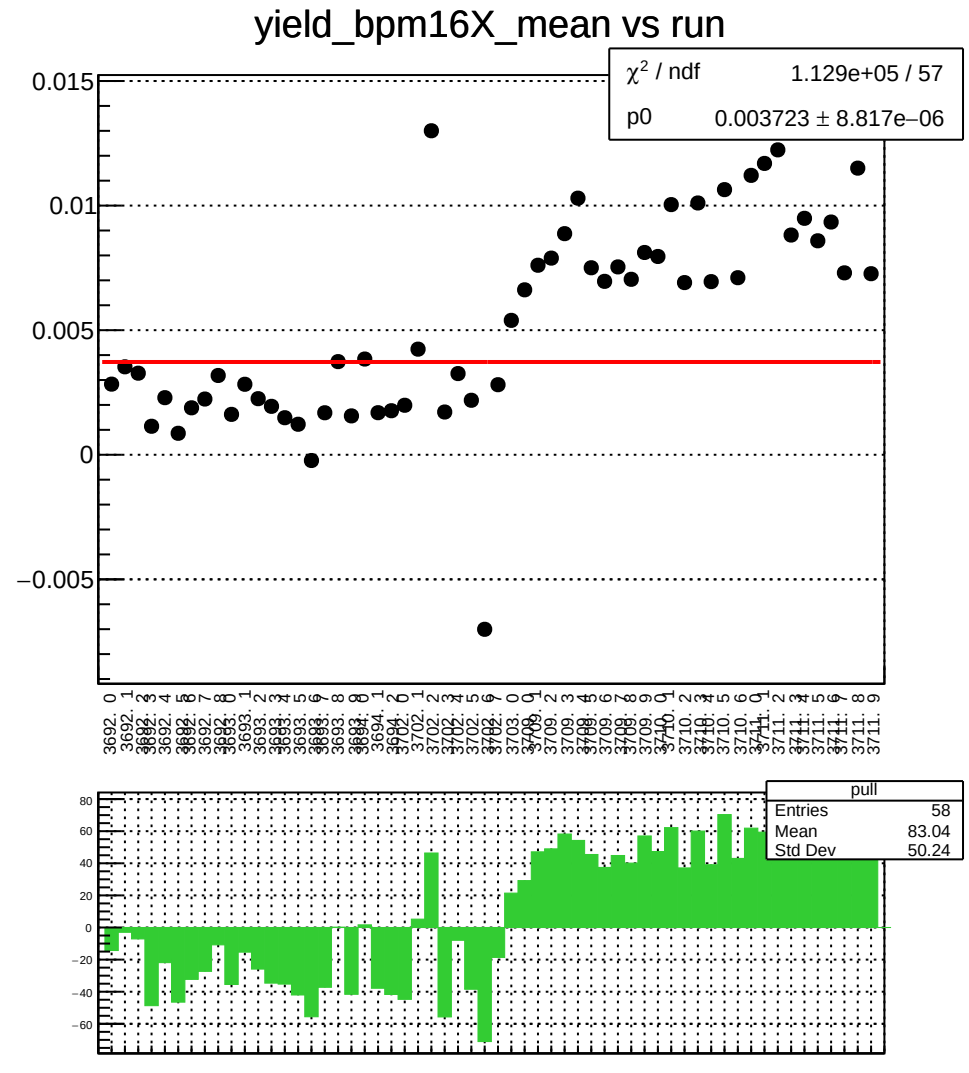

yield_bpm12X_mean vs run
χ² / ndf 1.151e+06 / 57
p0 −0.5673 ± 1.31e−05
pull
Entries 58
Mean 12.06
Std Dev 24.07
pull1D
Entries 58
Mean 2.123
Std Dev 4.791

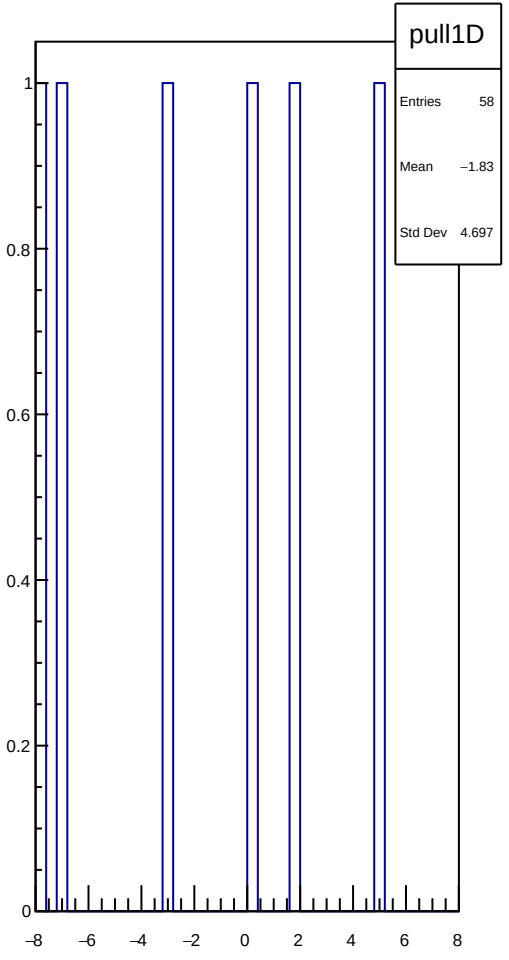

yield_bpm12X_rms vs run
χ² / ndf 2.493e+05 / 57
p0 0.008484 ± 9.266e−06
0.1
0.08
0.06
0.04
0.02

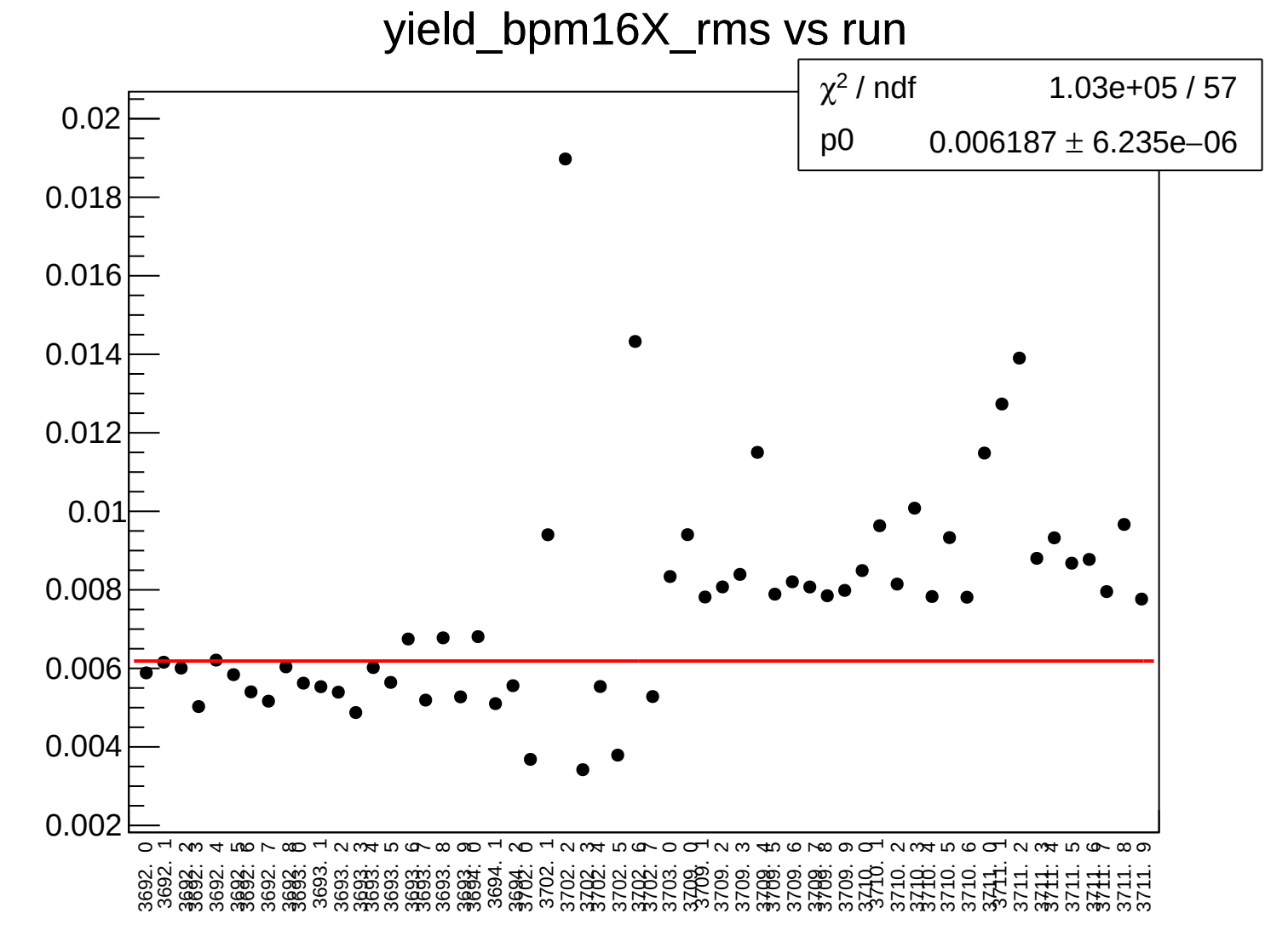

yield_bpm12Y_mean vs run
χ² / ndf 8.343e+05 / 57
p0 1.817 ± 8.887e−06
1.84
1.835
1.83
1.825
1.82
1.815
1.81
1.805
1.8
pull
Entries 58
Mean 911.6
Std Dev 873.5
400
300
200
100
0
−100
−200

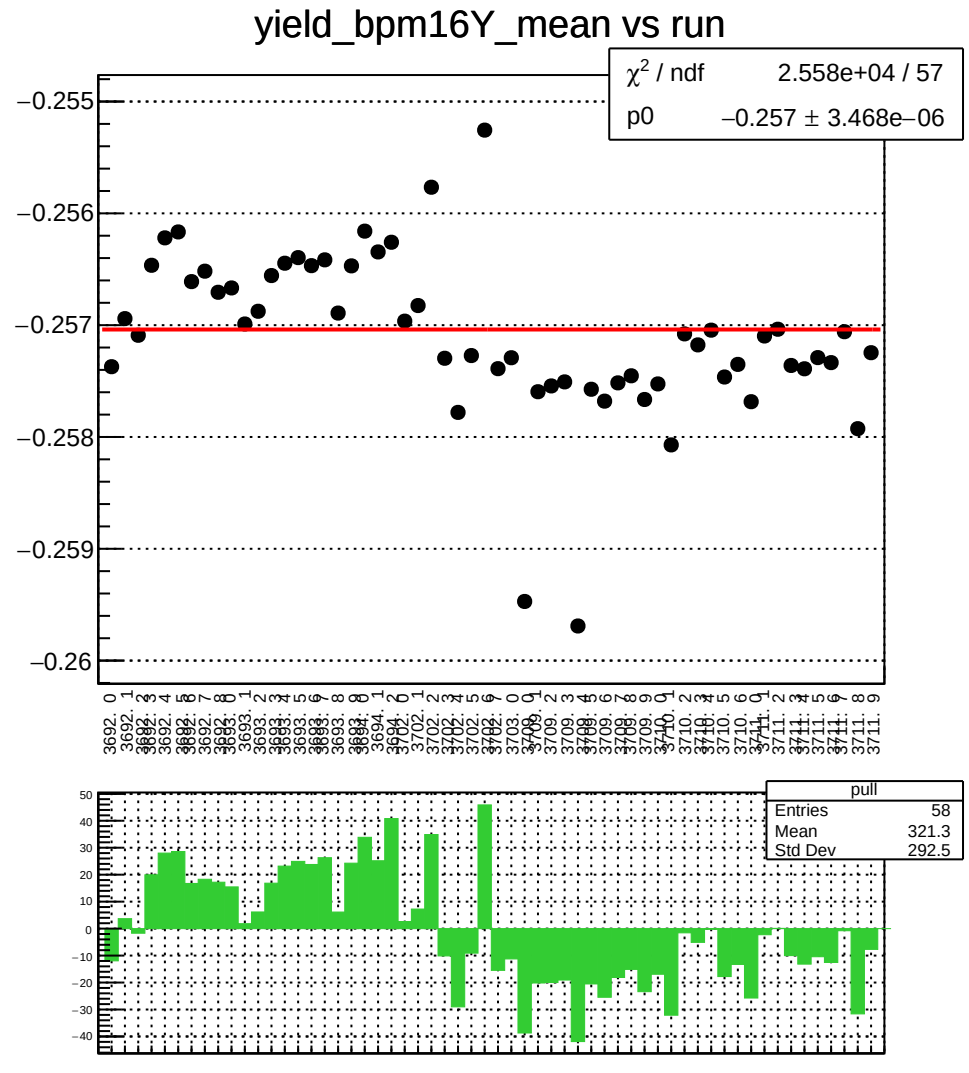

pull1D
Entries 58
Mean −0.5193
Std Dev 4.578
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

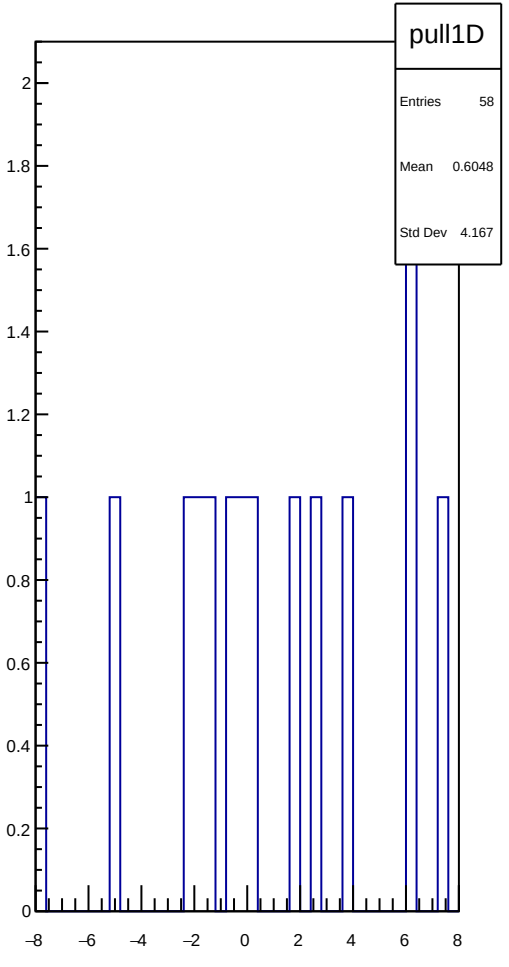

yield_bpm12Y_rms vs run
χ² / ndf 8.622e+04 / 57
p0 0.006289 ± 6.284e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

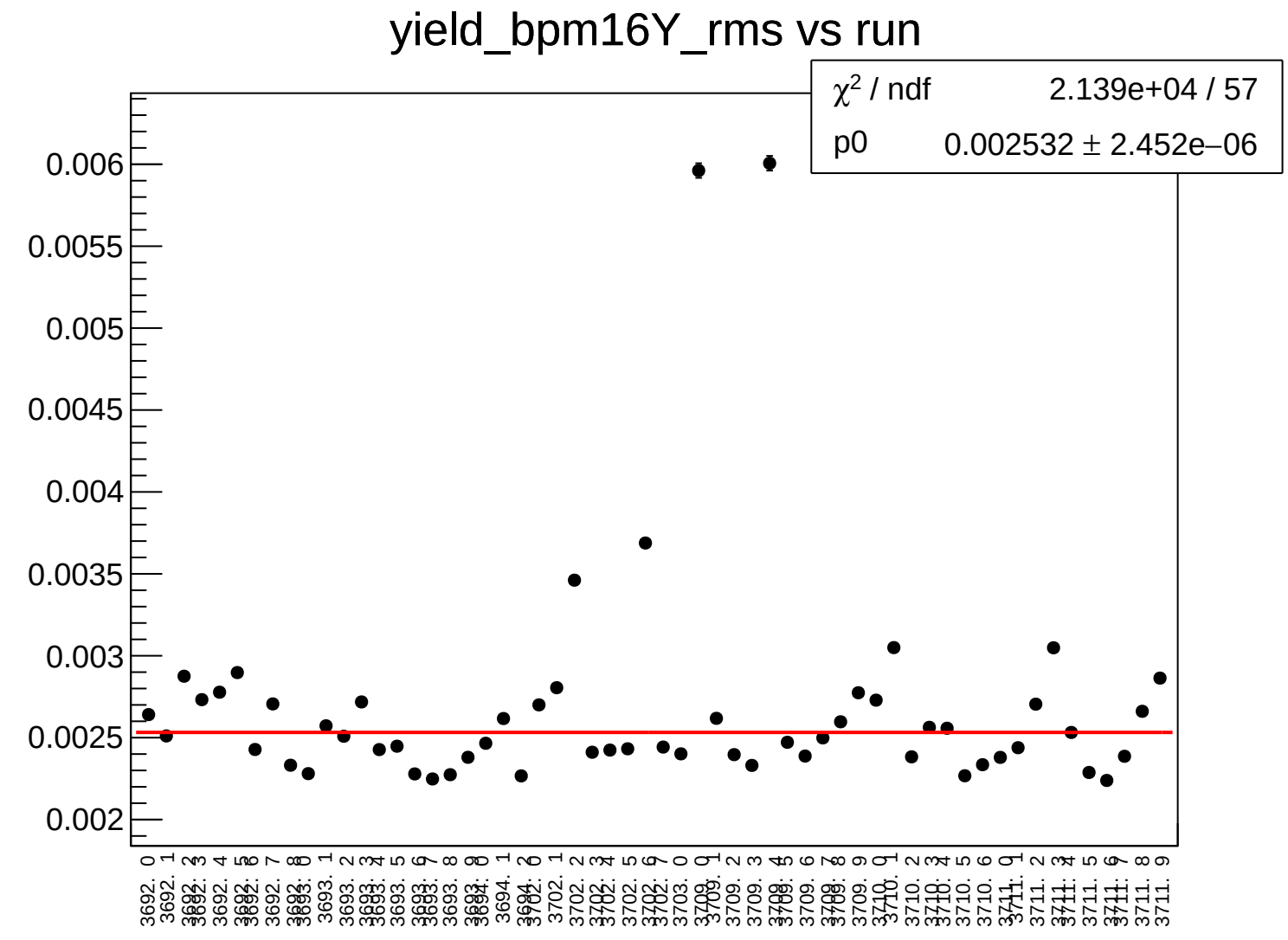

yield_bpm16X_mean vs run
χ² / ndf 1.129e+05 / 57
p0 0.003723 ± 8.817e−06
pull
Entries 58
Mean 83.04
Std Dev 50.24

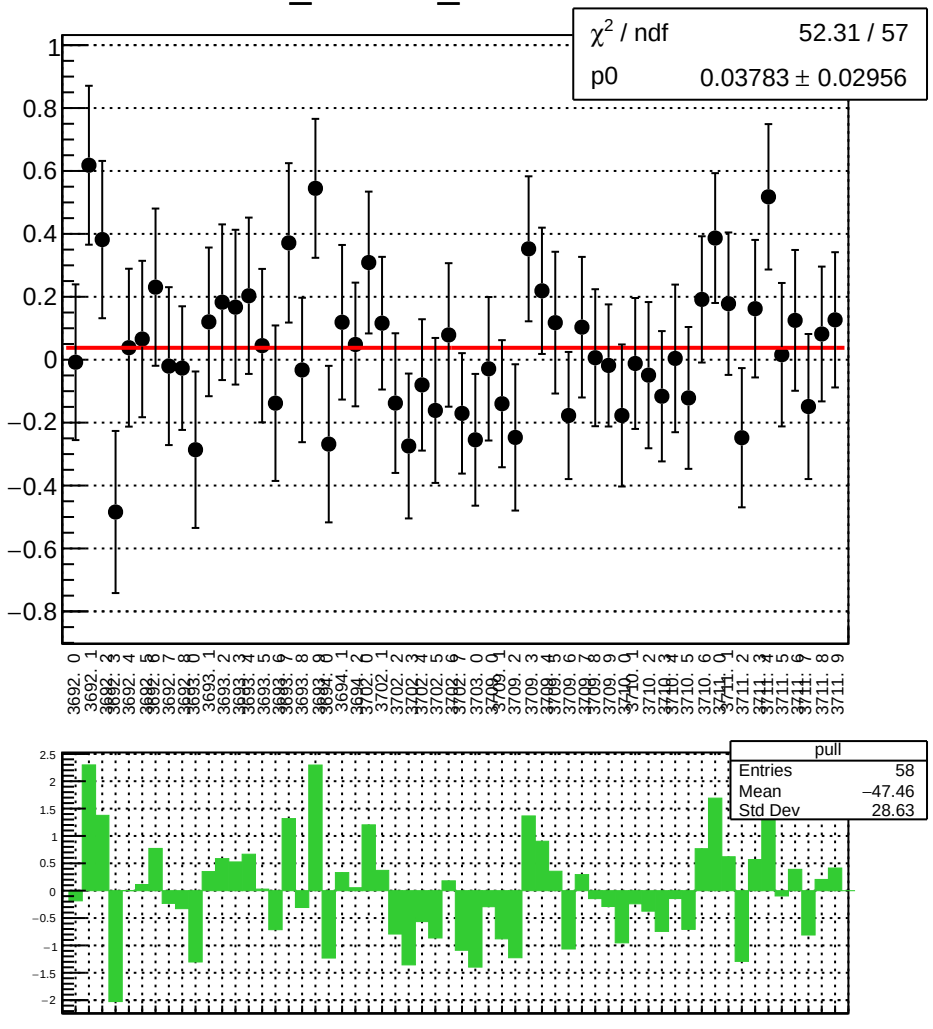

pull1D
Entries 58
Mean −1.83
Std Dev 4.697

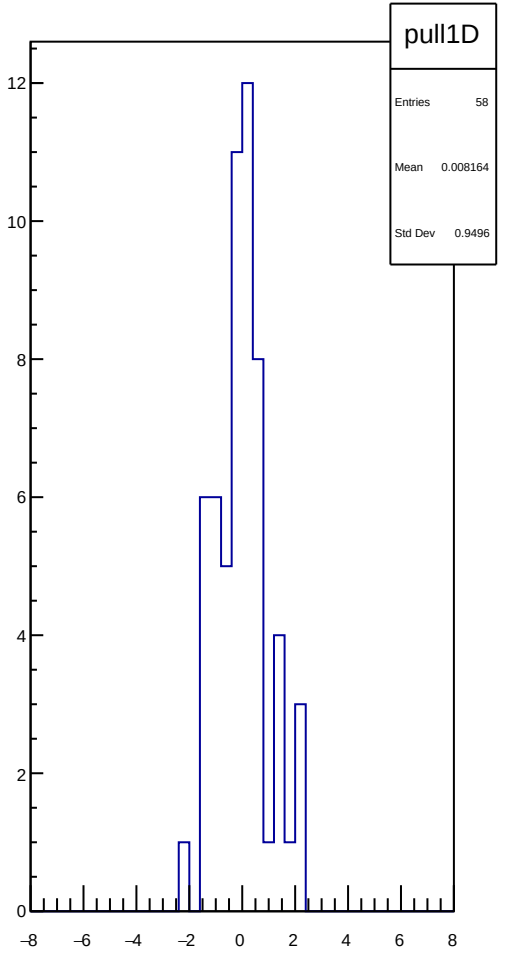

yield_bpm16X_rms vs run
χ² / ndf 1.03e+05 / 57
p0 0.006187 ± 6.235e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

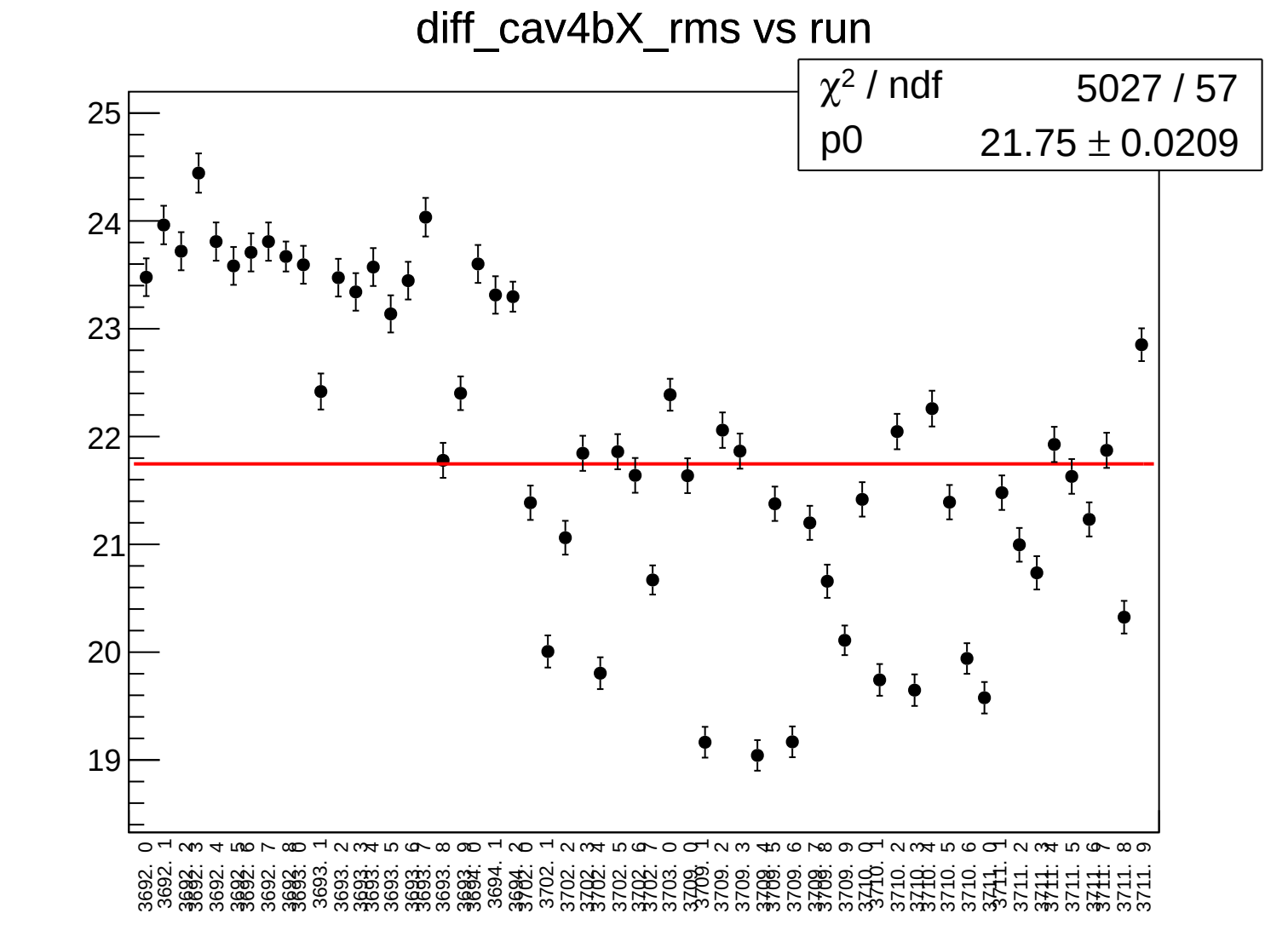

yield_bpm16Y_mean vs run
χ² / ndf 2.558e+04 / 57
p0 −0.257 ± 3.468e−06
−0.255
−0.256
−0.257
−0.258
−0.259
−0.26
pull
Entries 58
Mean 321.3
Std Dev 292.5
50
40
30
20
10
0
−10
−20
−30
−40

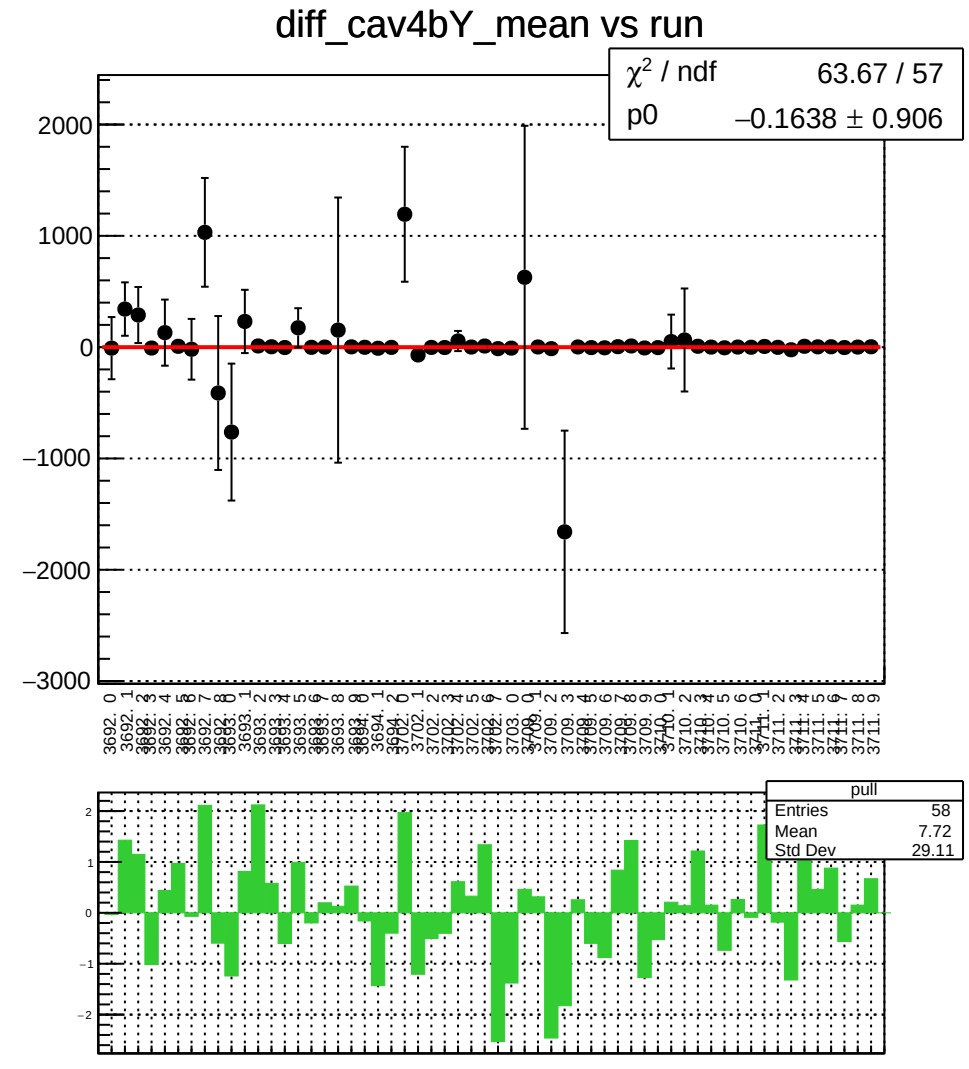

pull1D
Entries 58
Mean 0.6048
Std Dev 4.167
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

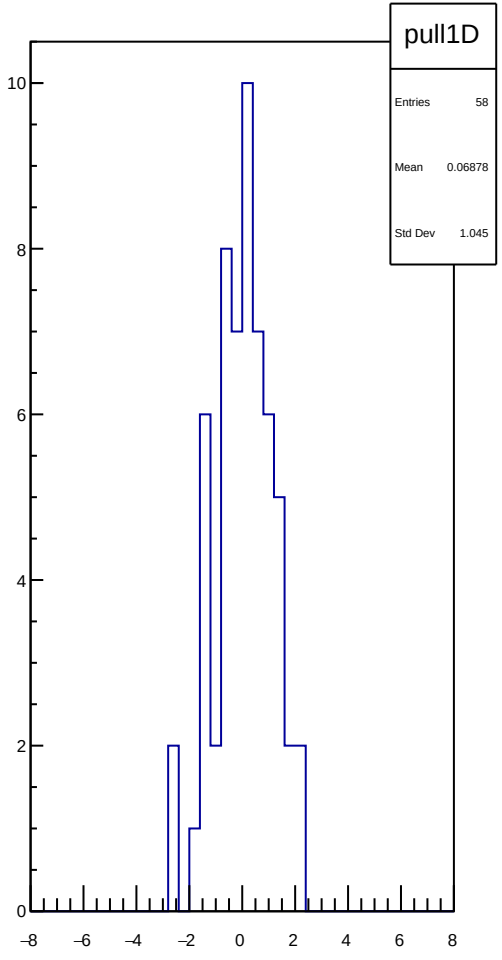

yield_bpm16Y_rms vs run
χ² / ndf 2.139e+04 / 57
p0 0.002532 ± 2.452e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

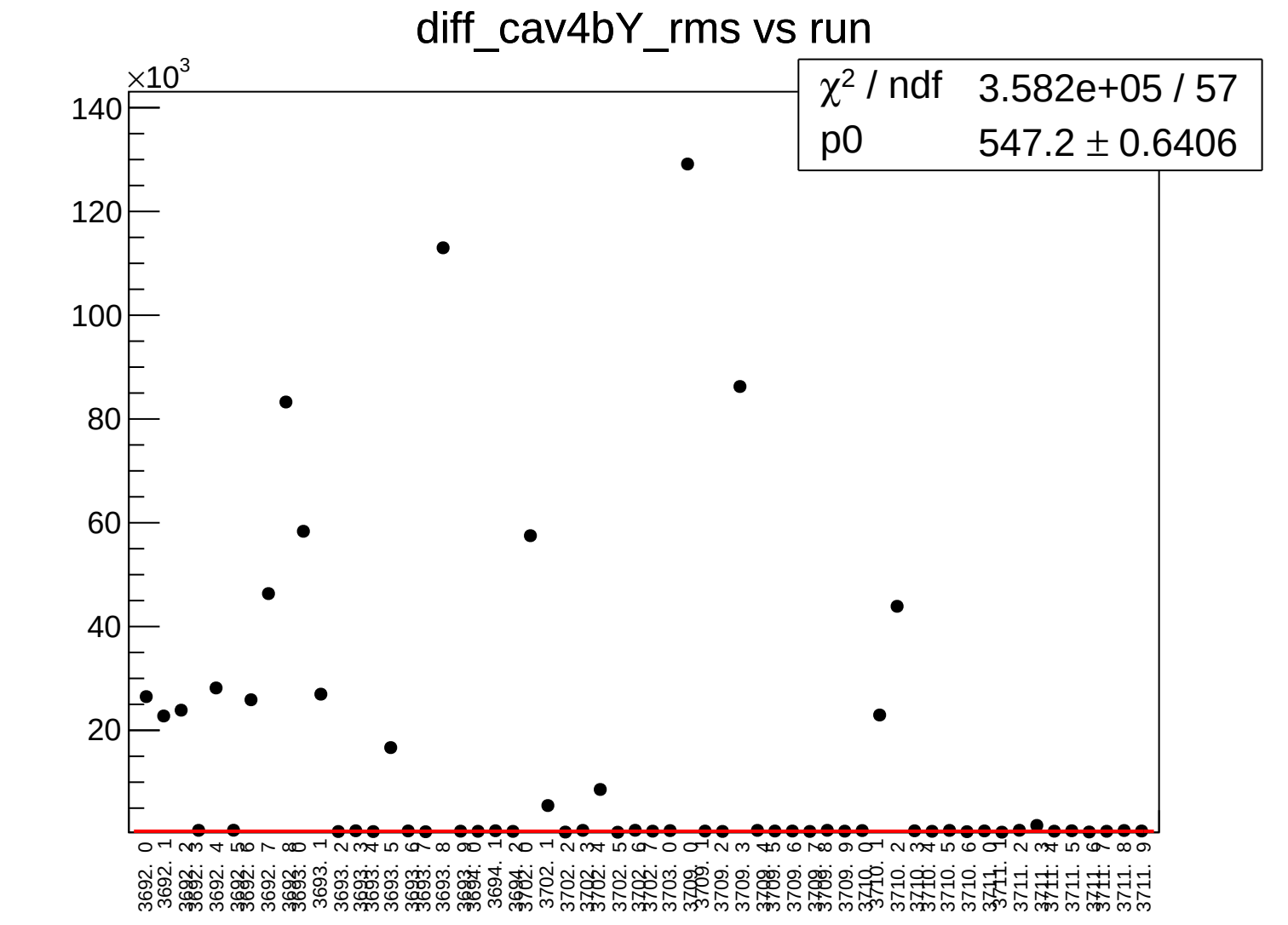

diff_cav4bX_mean vs run
χ^2 / ndf 52.31 / 57
p0 0.03783 ± 0.02956
pull
Entries 58
Mean −47.46
Std Dev 28.63

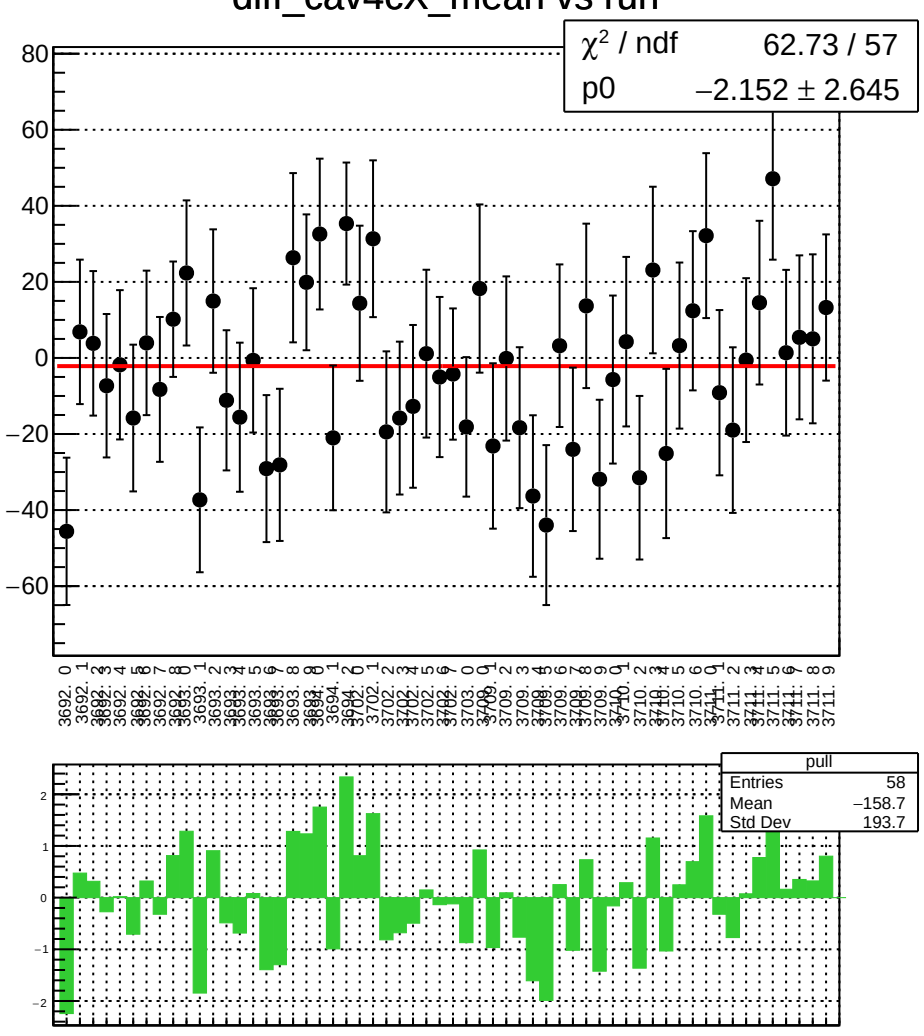

pull1D
Entries 58
Mean 0.008164
Std Dev 0.9496

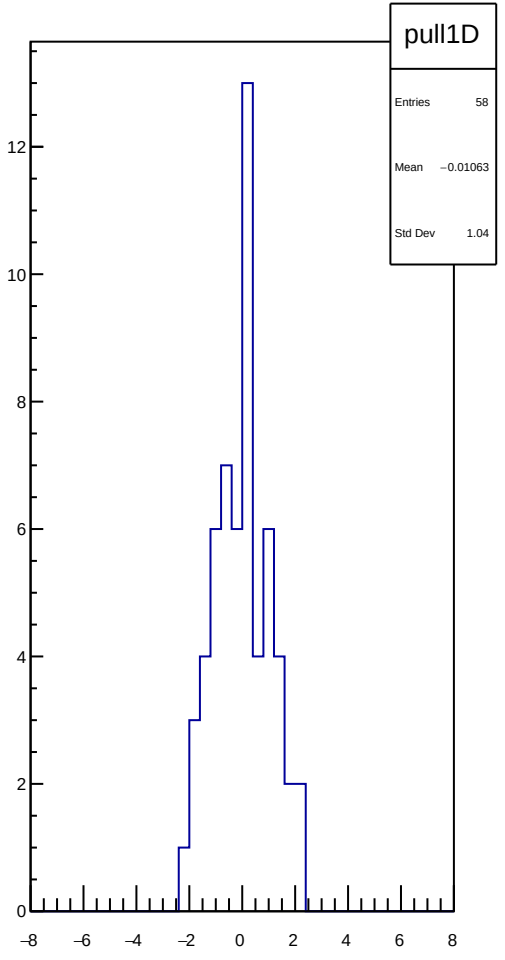

diff_cav4bX_rms vs run
χ² / ndf 5027 / 57
p0 21.75 ± 0.0209
25
24
23
22
21
20
19

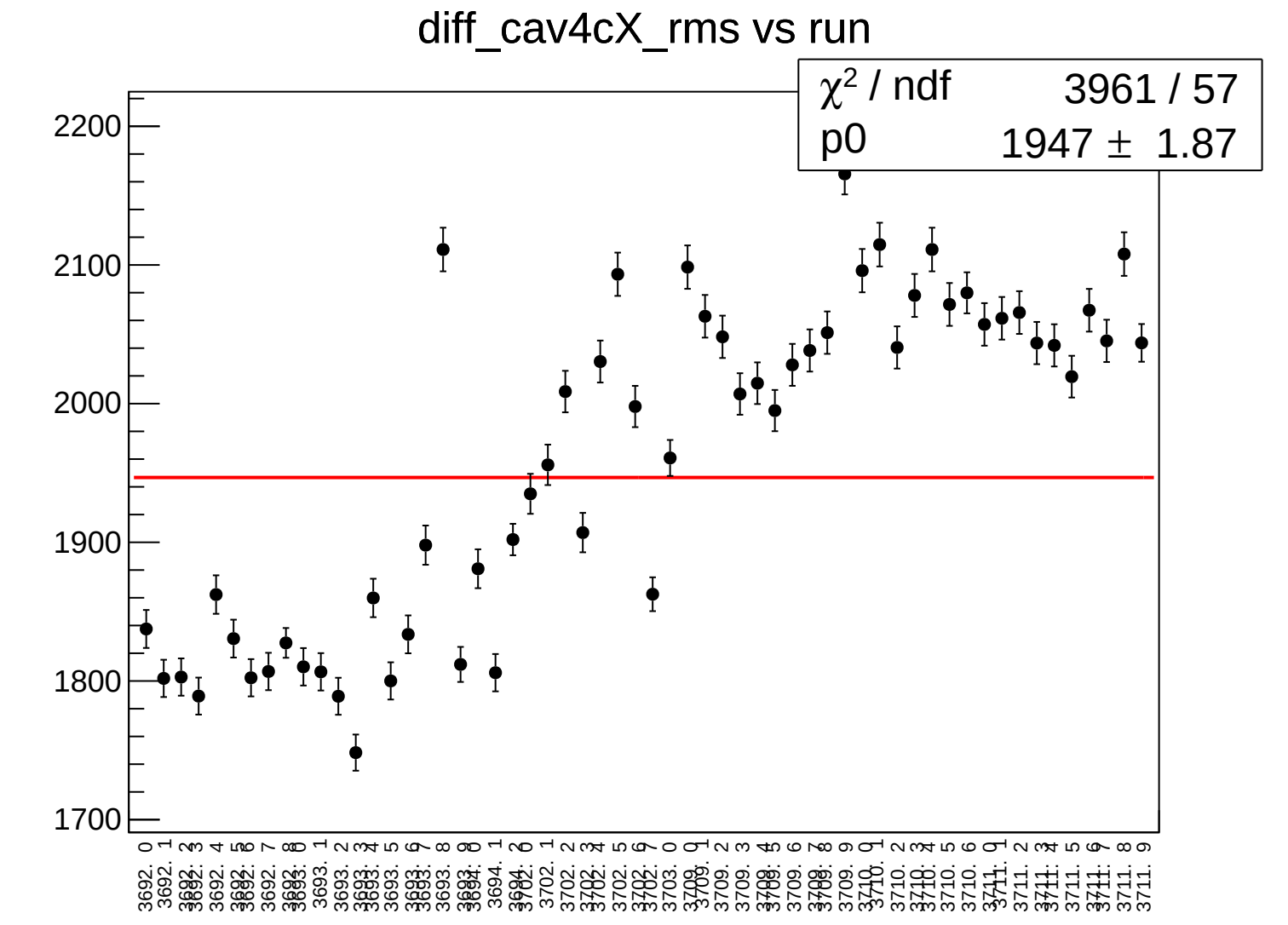

diff_cav4bY_mean vs run
χ² / ndf 63.67 / 57
p0 −0.1638 ± 0.906
pull
Entries 58
Mean 7.72
Std Dev 29.11

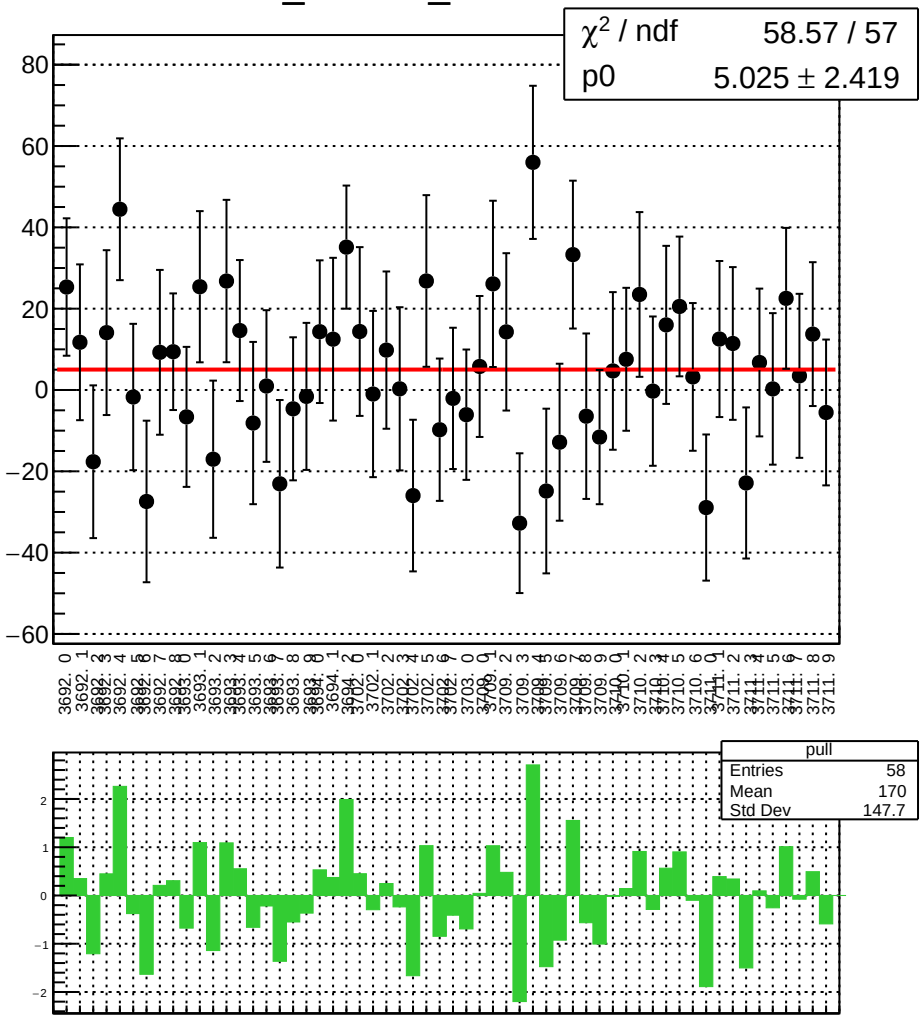

pull1D
Entries 58
Mean 0.06878
Std Dev 1.045

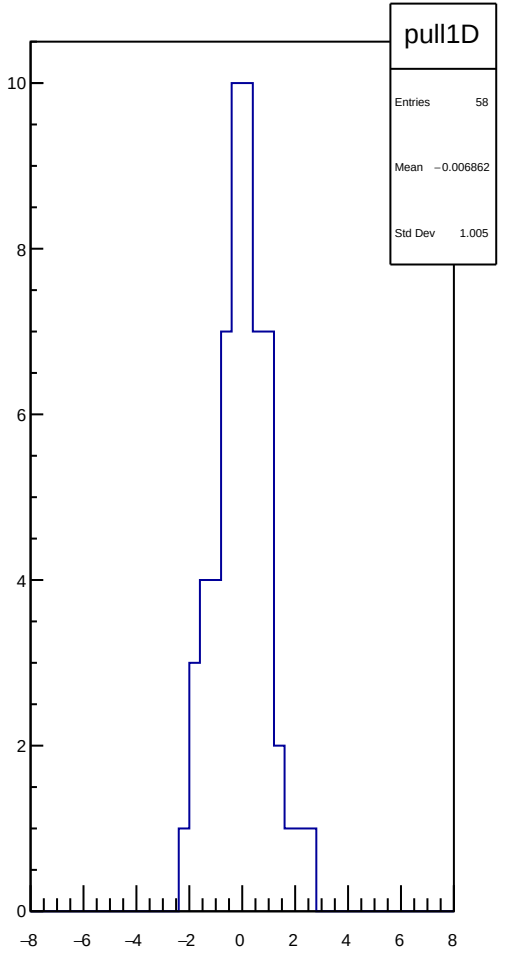

diff_cav4bY_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 3.582e+05 / 57
p0 547.2 ± 0.6406

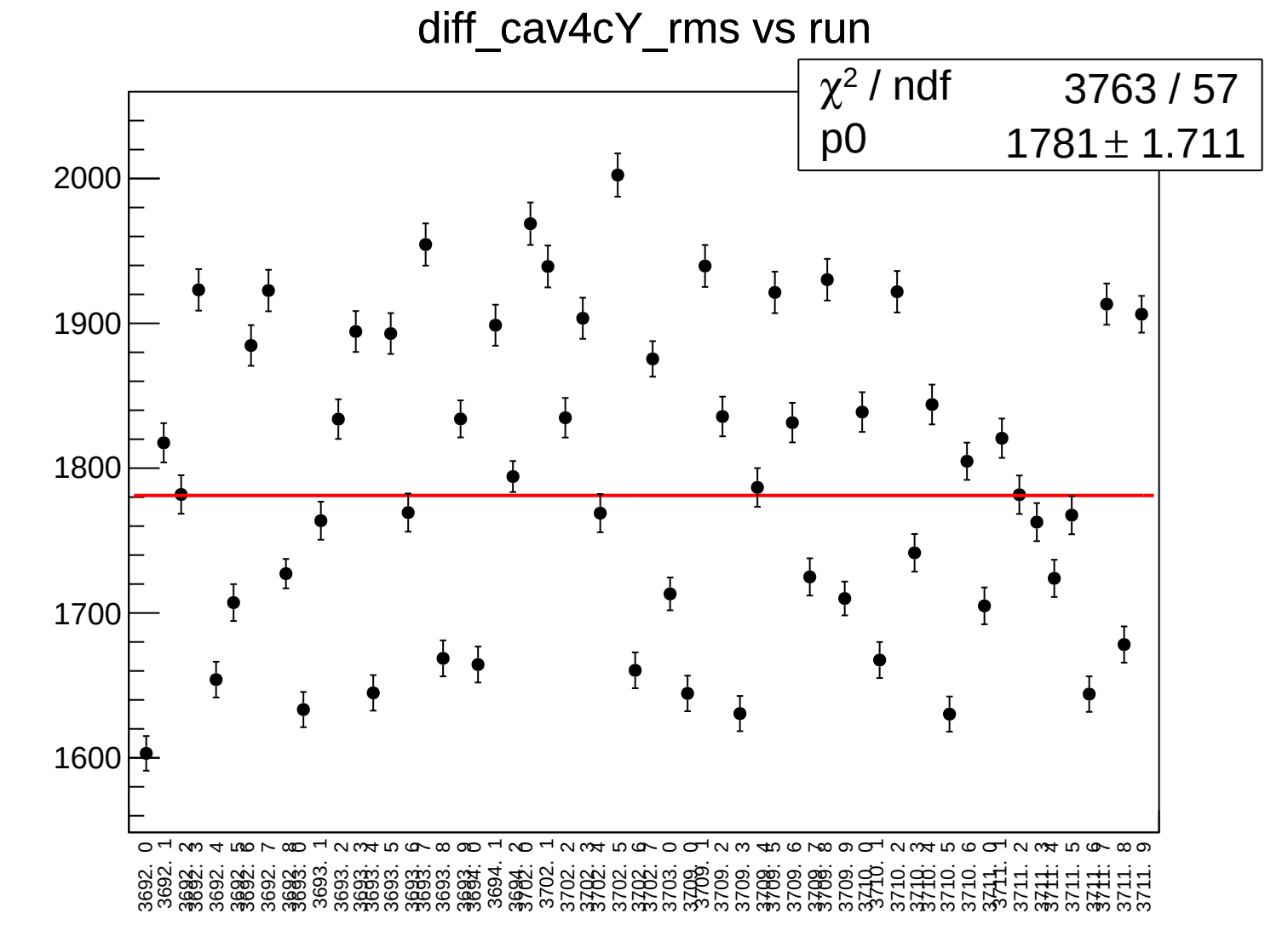

diff_cav4cX_mean vs run
χ^2 / ndf 62.73 / 57
p0 −2.152 ± 2.645
pull
Entries 58
Mean −158.7
Std Dev 193.7

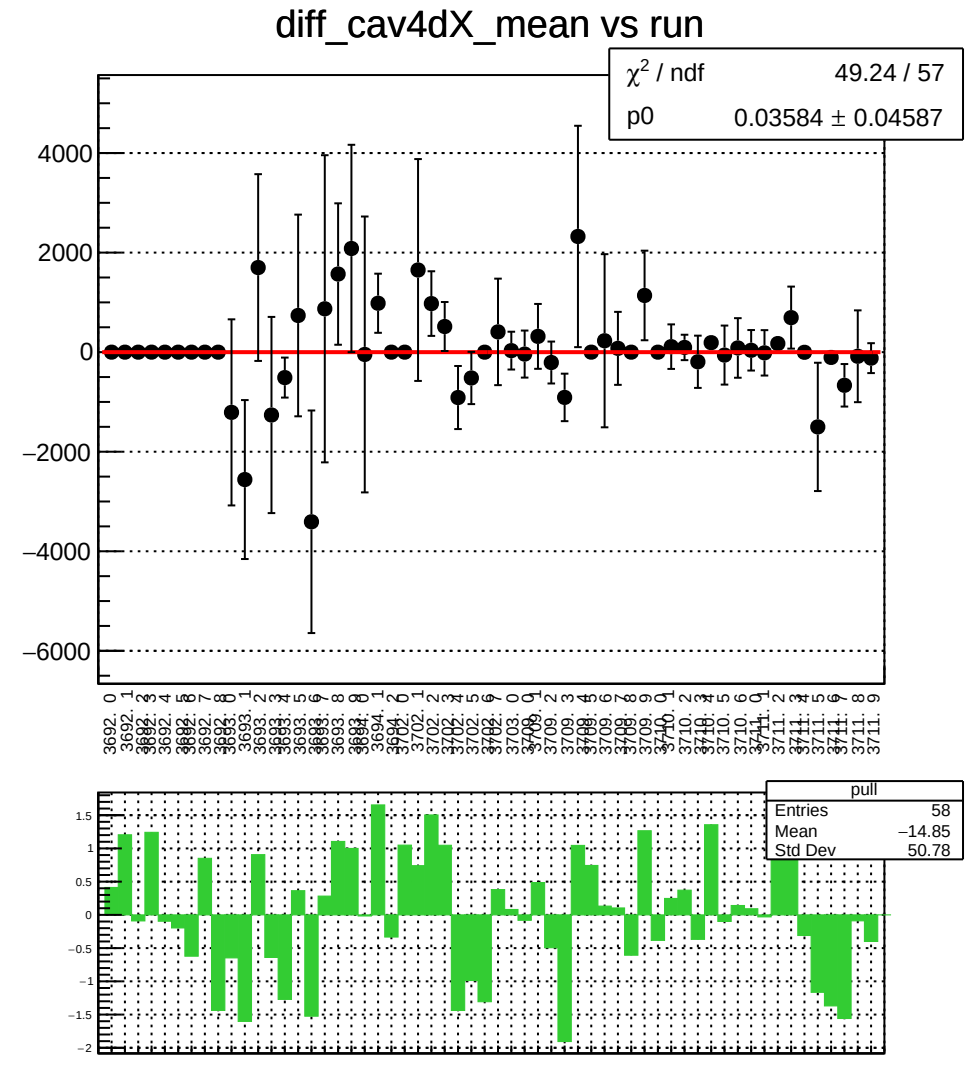

pull1D
Entries 58
Mean −0.01063
Std Dev 1.04

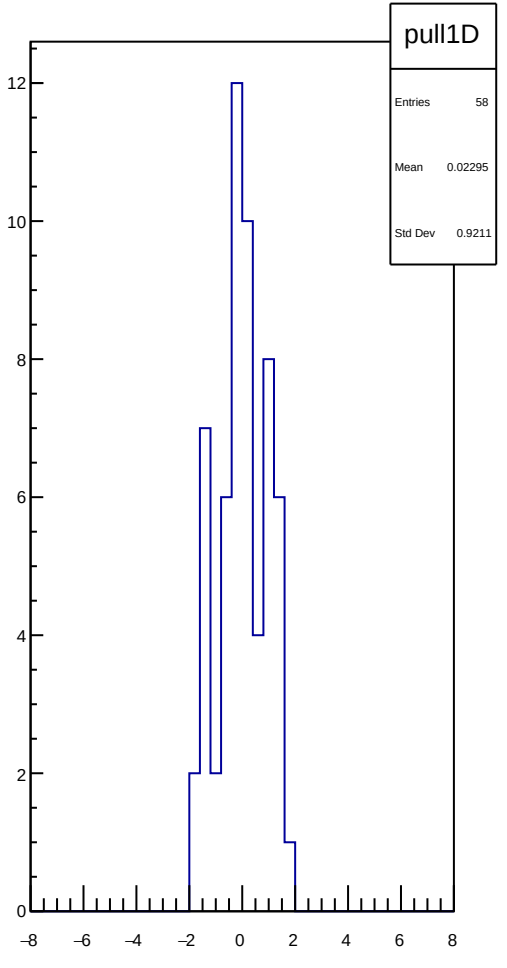

diff_cav4cX_rms vs run
χ² / ndf 3961 / 57
p0 1947 ± 1.87
2200
2100
2000
1900
1800
1700

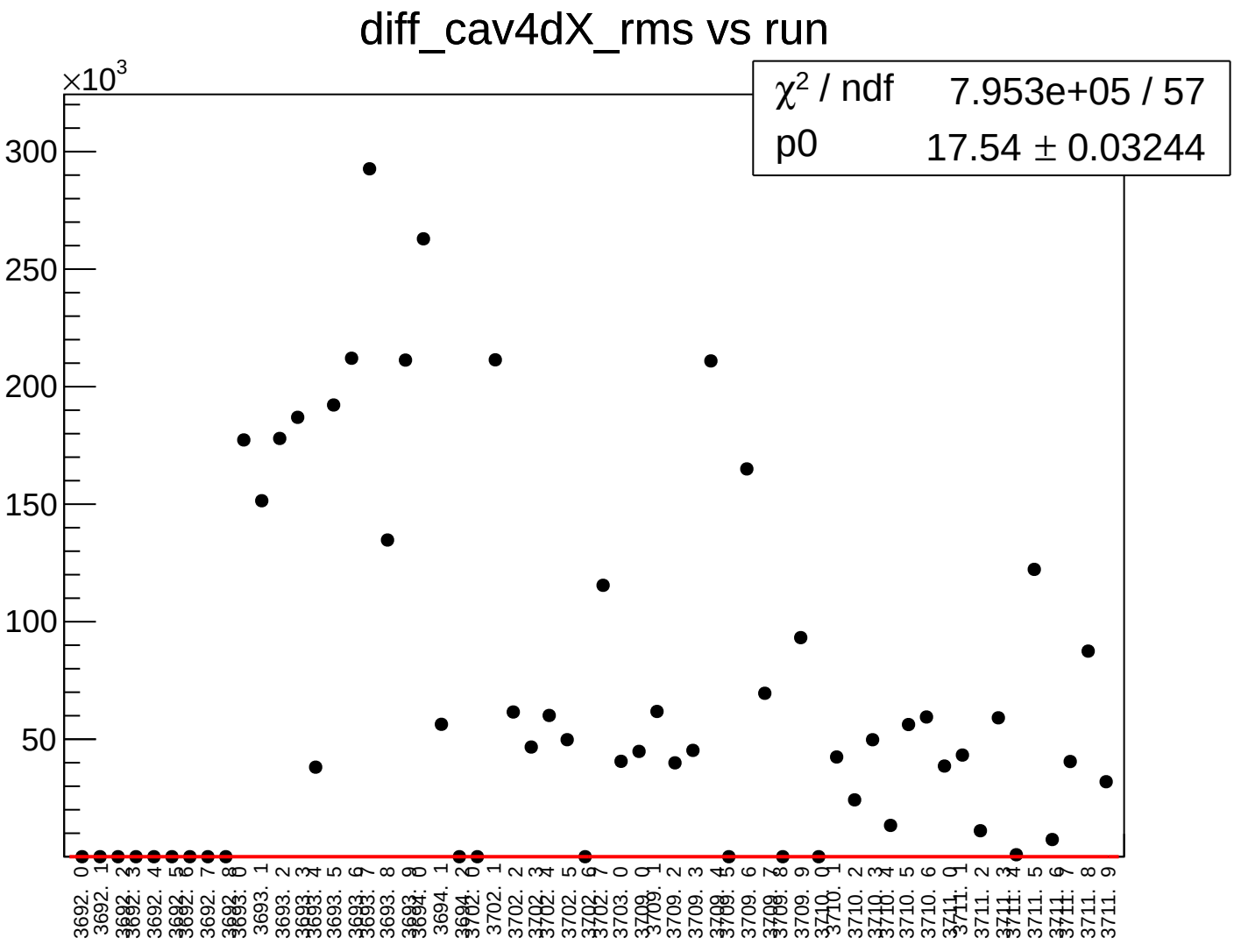

diff_cav4cY_mean vs run
χ² / ndf 58.57 / 57
p0 5.025 ± 2.419
pull
Entries 58
Mean 170
Std Dev 147.7

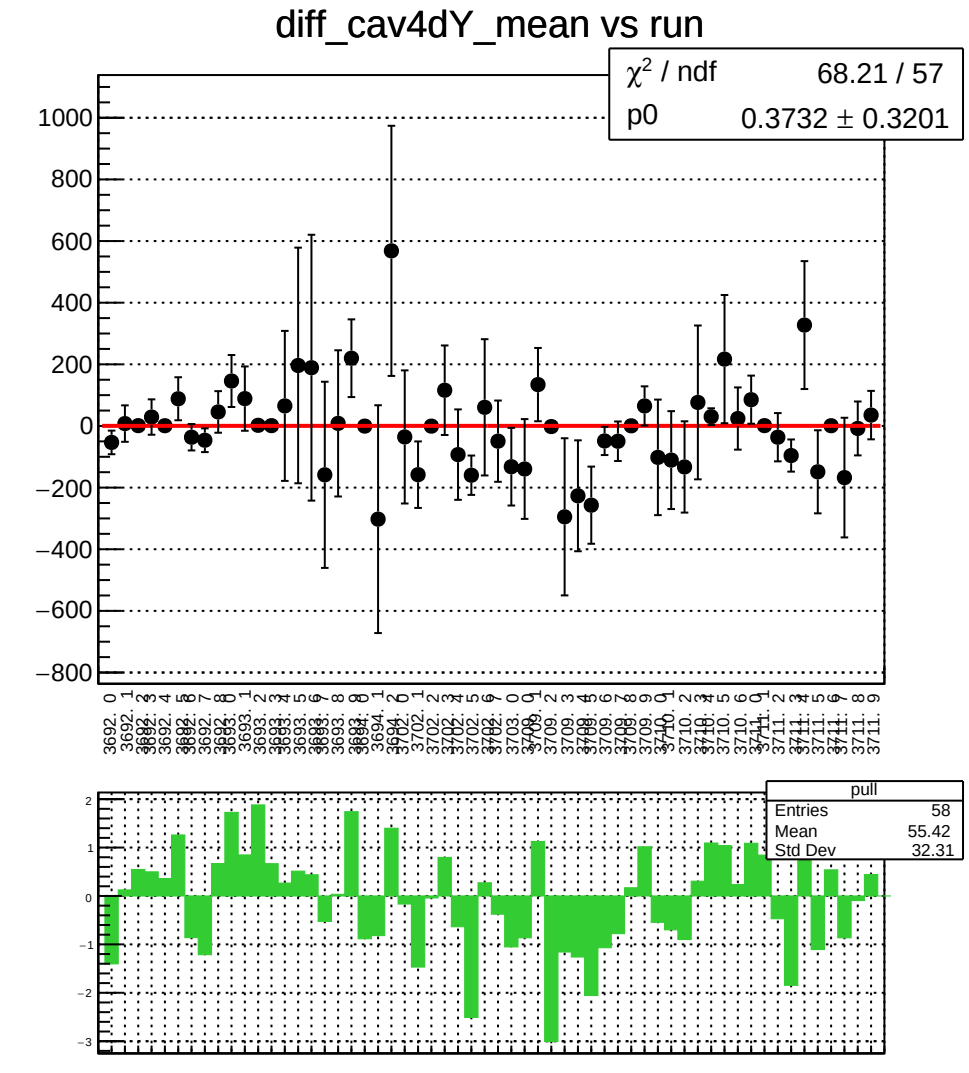

pull1D
Entries 58
Mean −0.006862
Std Dev 1.005

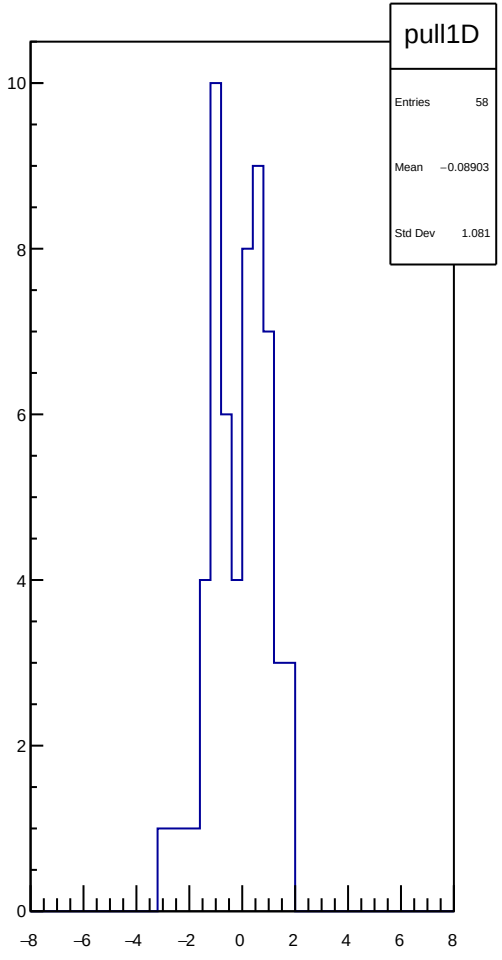

diff_cav4cY_rms vs run
χ² / ndf 3763 / 57
p0 1781 ± 1.711
2000
1900
1800
1700
1600

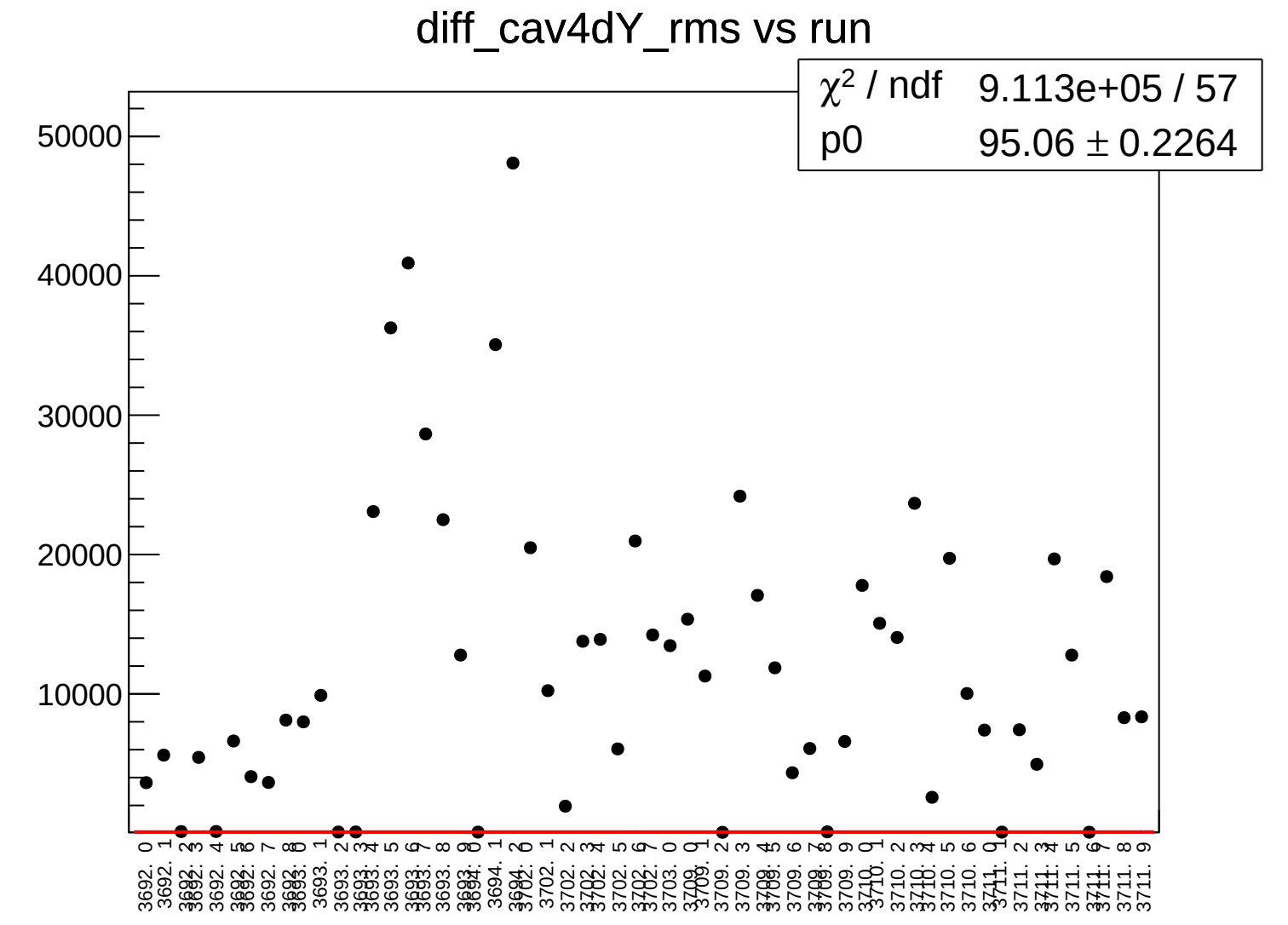

diff_cav4dX_mean vs run
χ² / ndf 49.24 / 57
p0 0.03584 ± 0.04587
pull
Entries 58
Mean −14.85
Std Dev 50.78

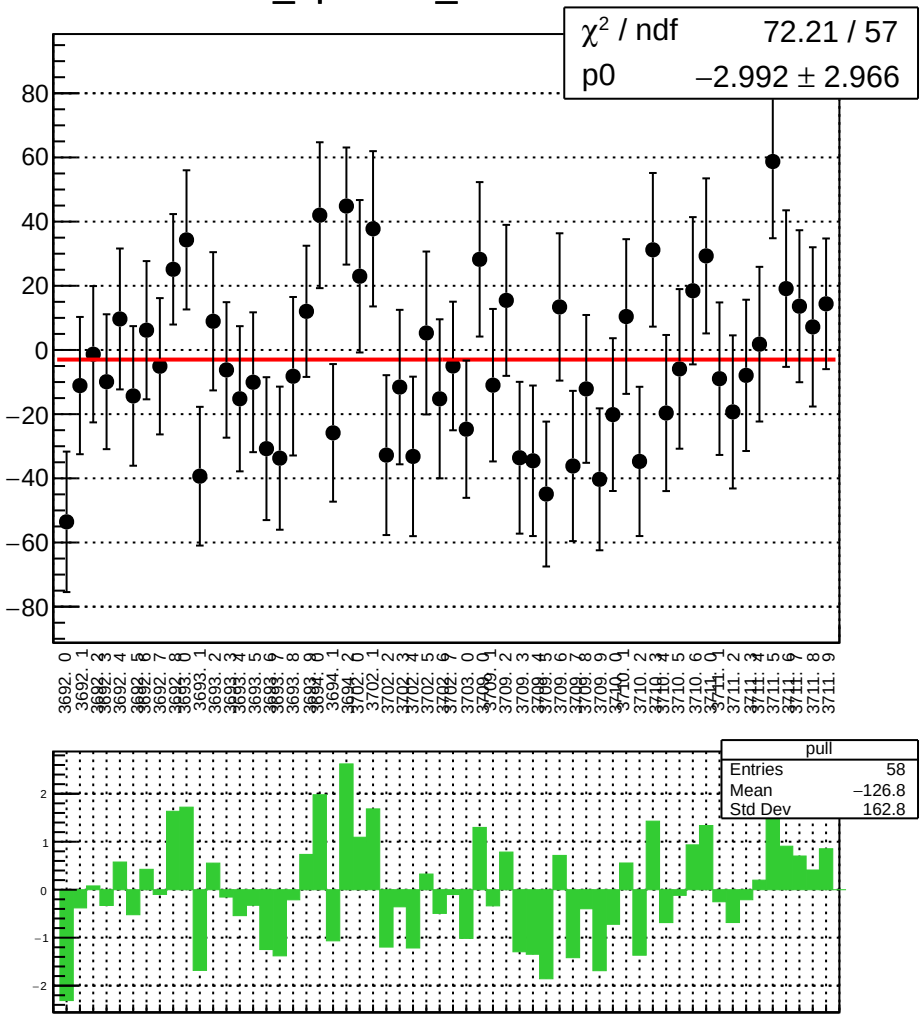

pull1D
Entries 58
Mean 0.02295
Std Dev 0.9211

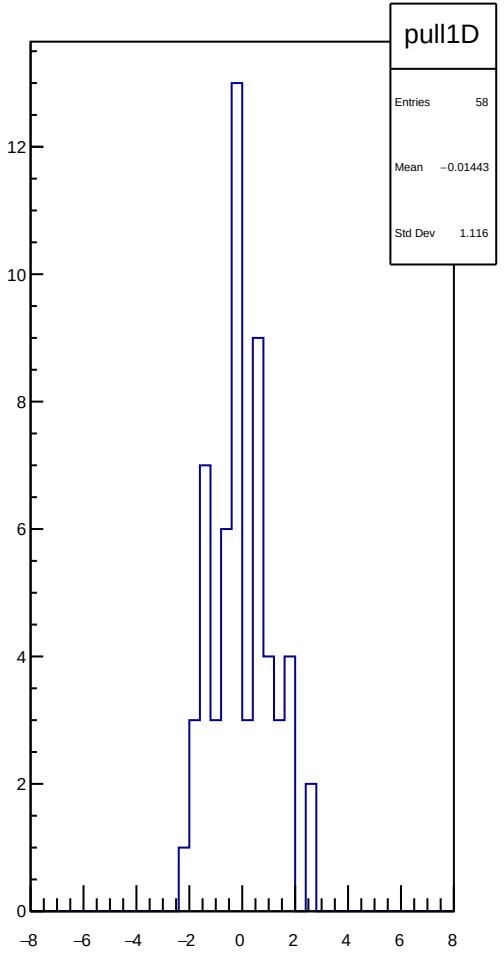

diff_cav4dX_rms vs run
×10^3
χ² / ndf 7.953e+05 / 57
p0 17.54 ± 0.03244
300
250
200
150
100
50

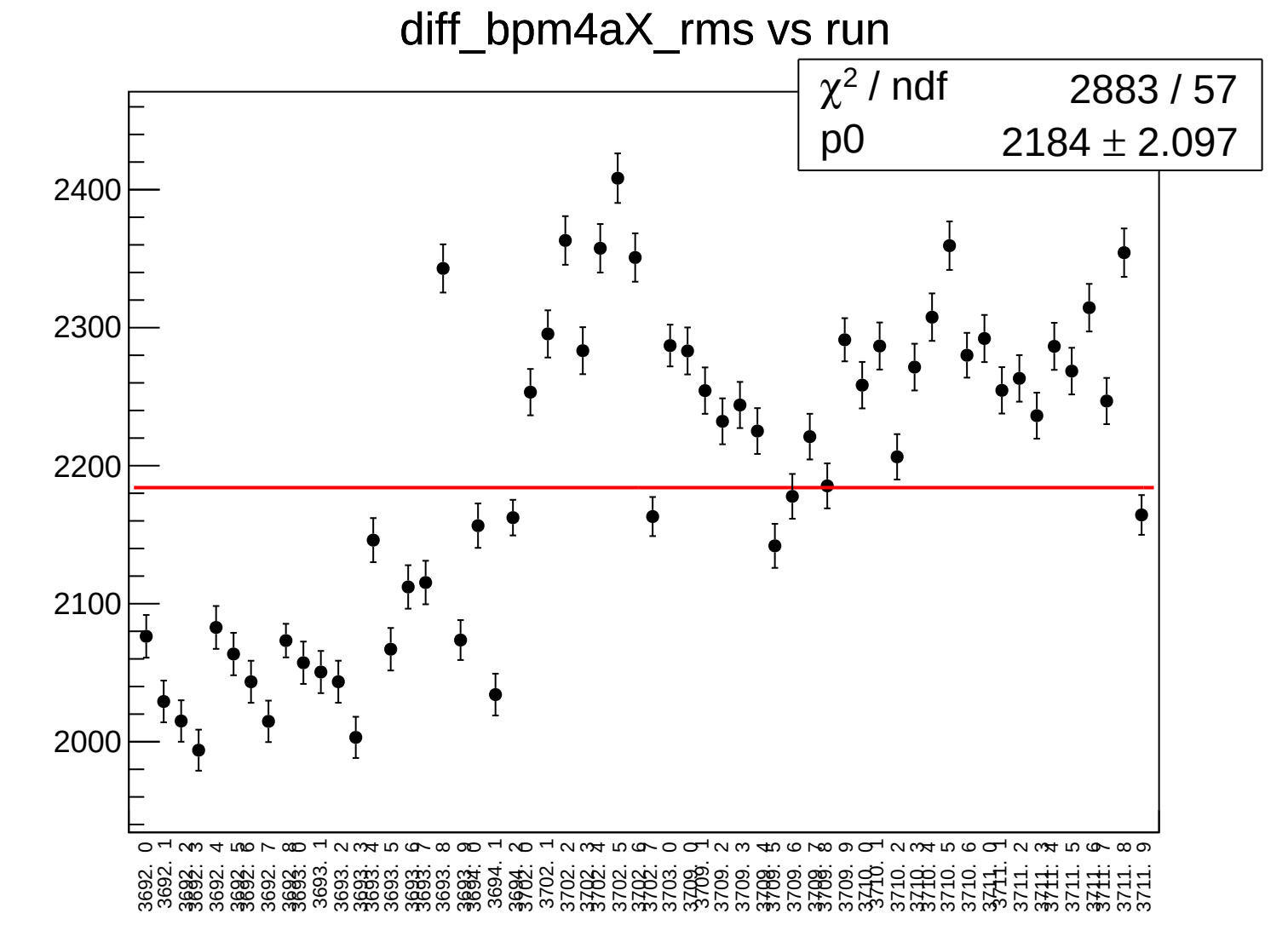

diff_cav4dY_mean vs run
χ^2 / ndf 68.21 / 57
p0 0.3732 ± 0.3201
pull
Entries 58
Mean 55.42
Std Dev 32.31

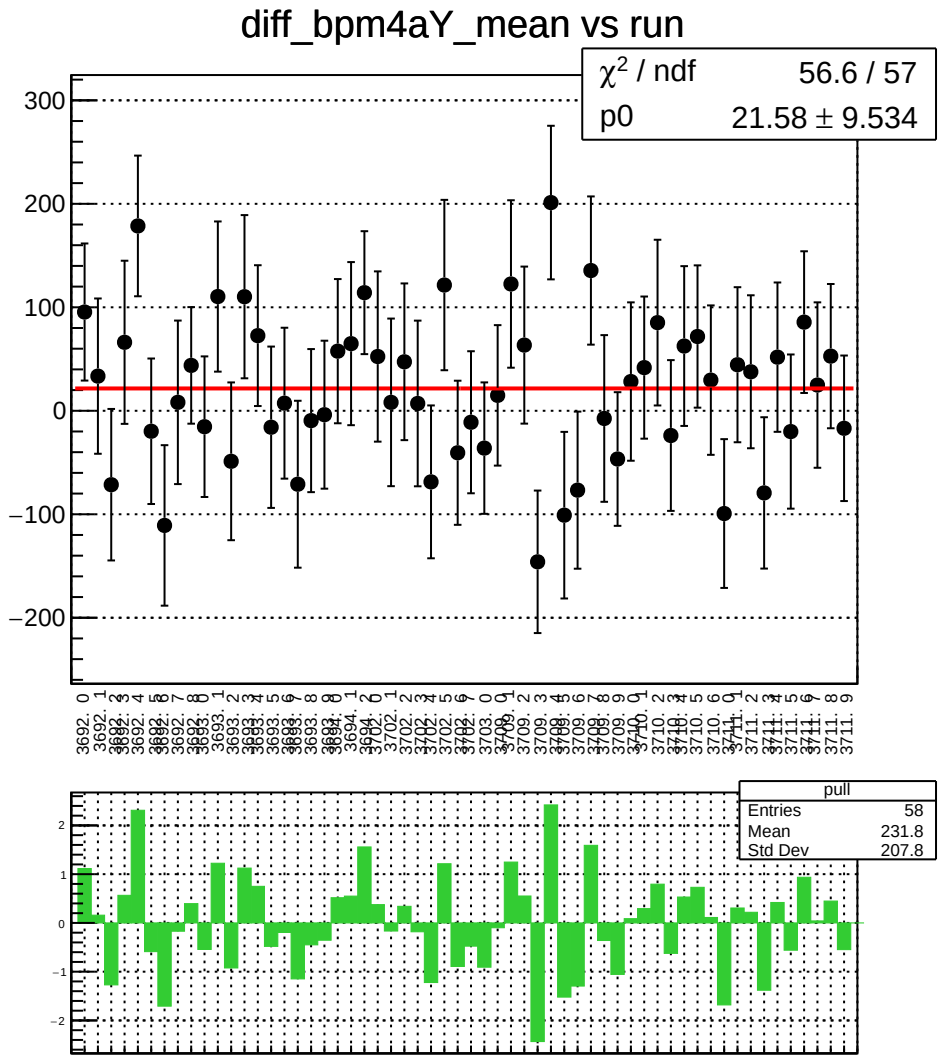

pull1D
Entries 58
Mean −0.08903
Std Dev 1.081

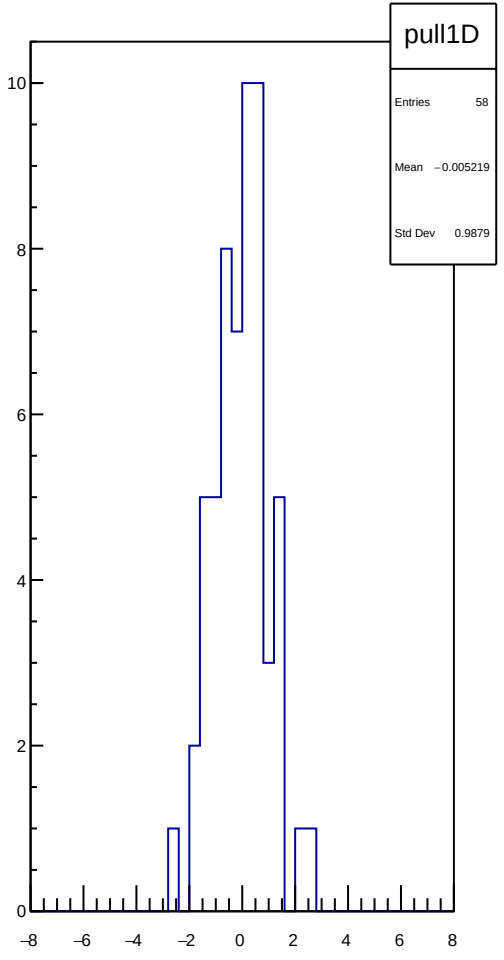

diff_cav4dY_rms vs run
χ² / ndf 9.113e+05 / 57
p0 95.06 ± 0.2264
50000
40000
30000
20000
10000

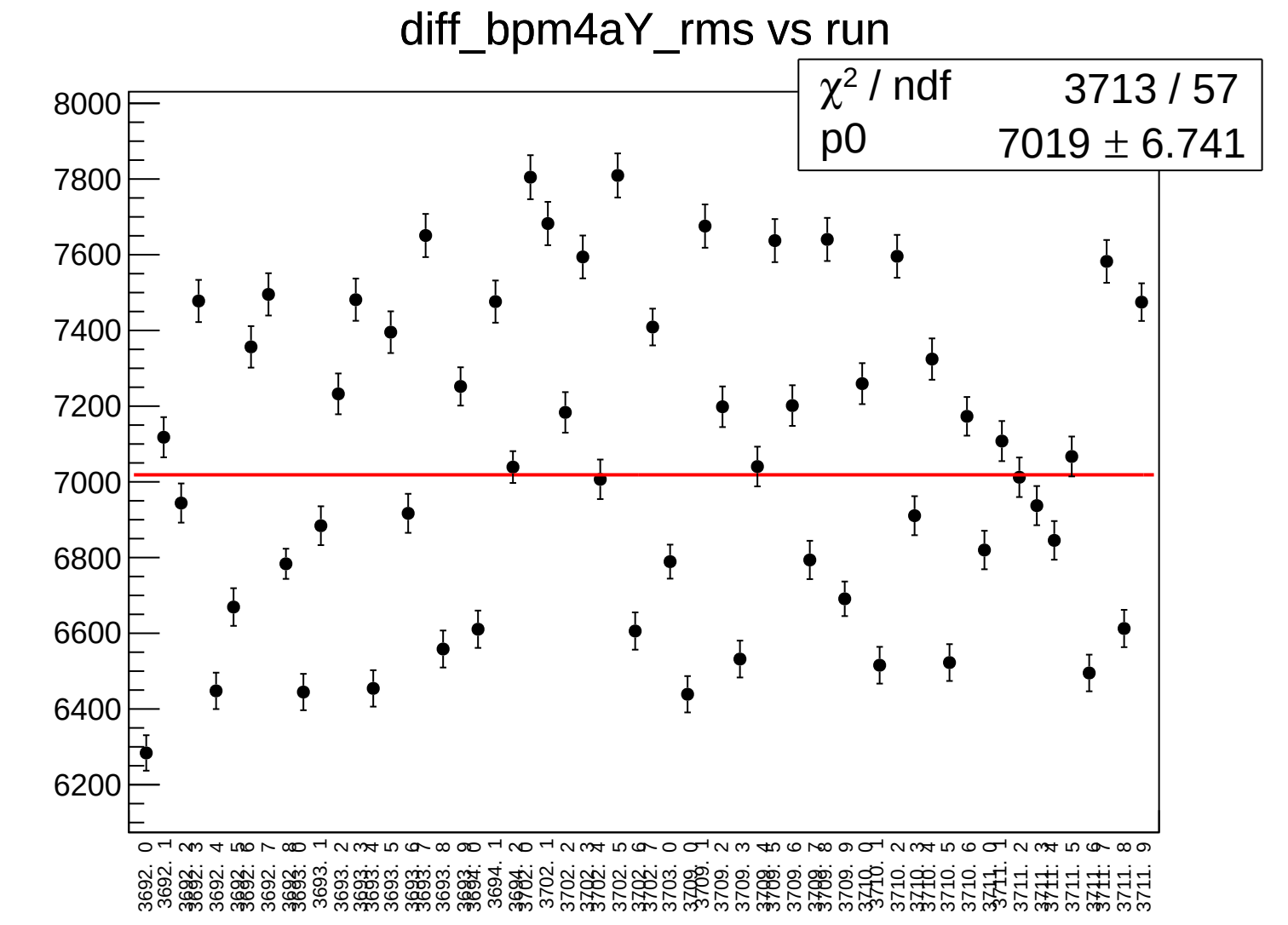

diff_bpm4aX_mean vs run
χ² / ndf 72.21 / 57
p0 −2.992 ± 2.966
pull
Entries 58
Mean −126.8
Std Dev 162.8

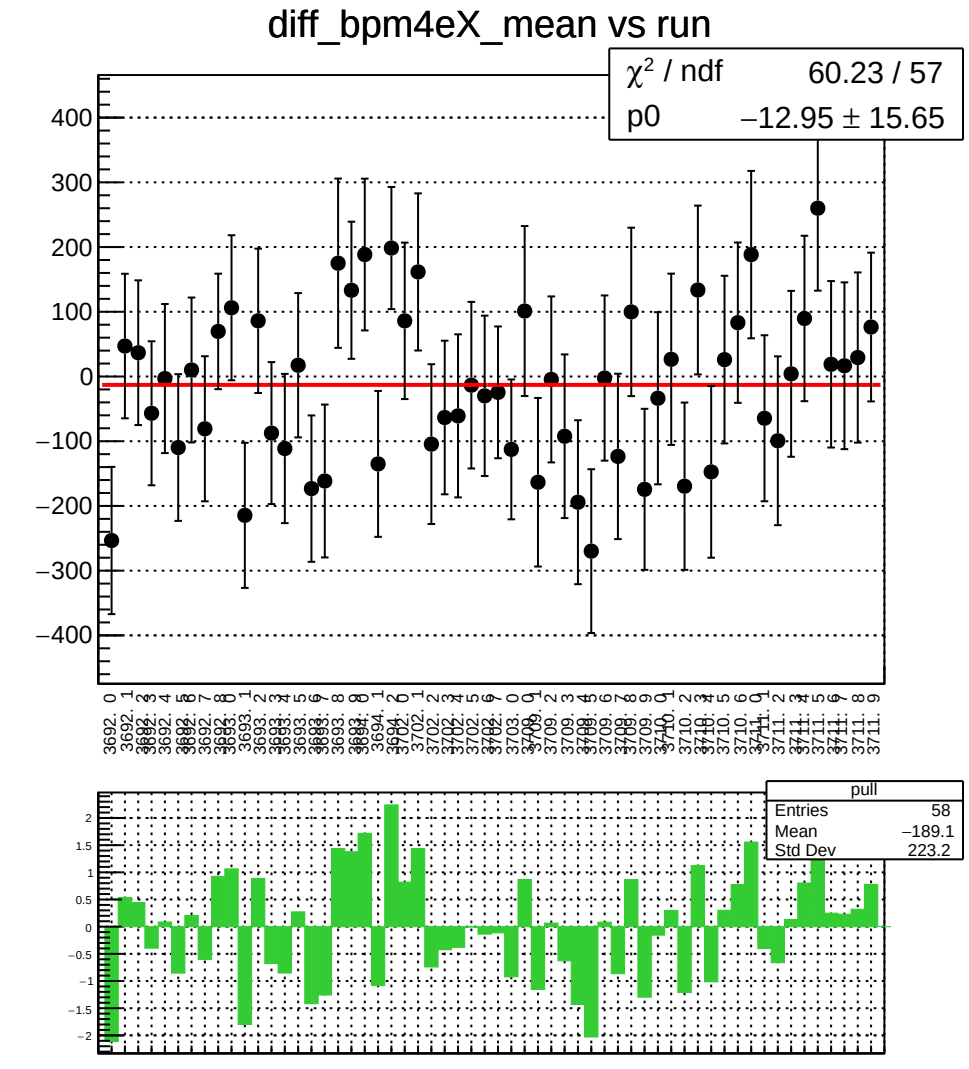

pull1D
Entries 58
Mean −0.01443
Std Dev 1.116

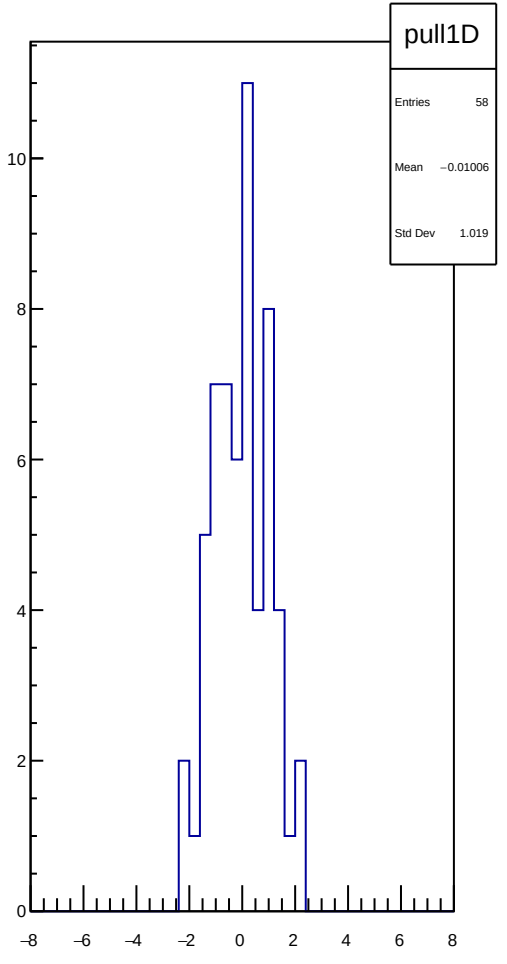

diff_bpm4aX_rms vs run
χ^2 / ndf 2883 / 57
p0 2184 ± 2.097
2400
2300
2200
2100
2000

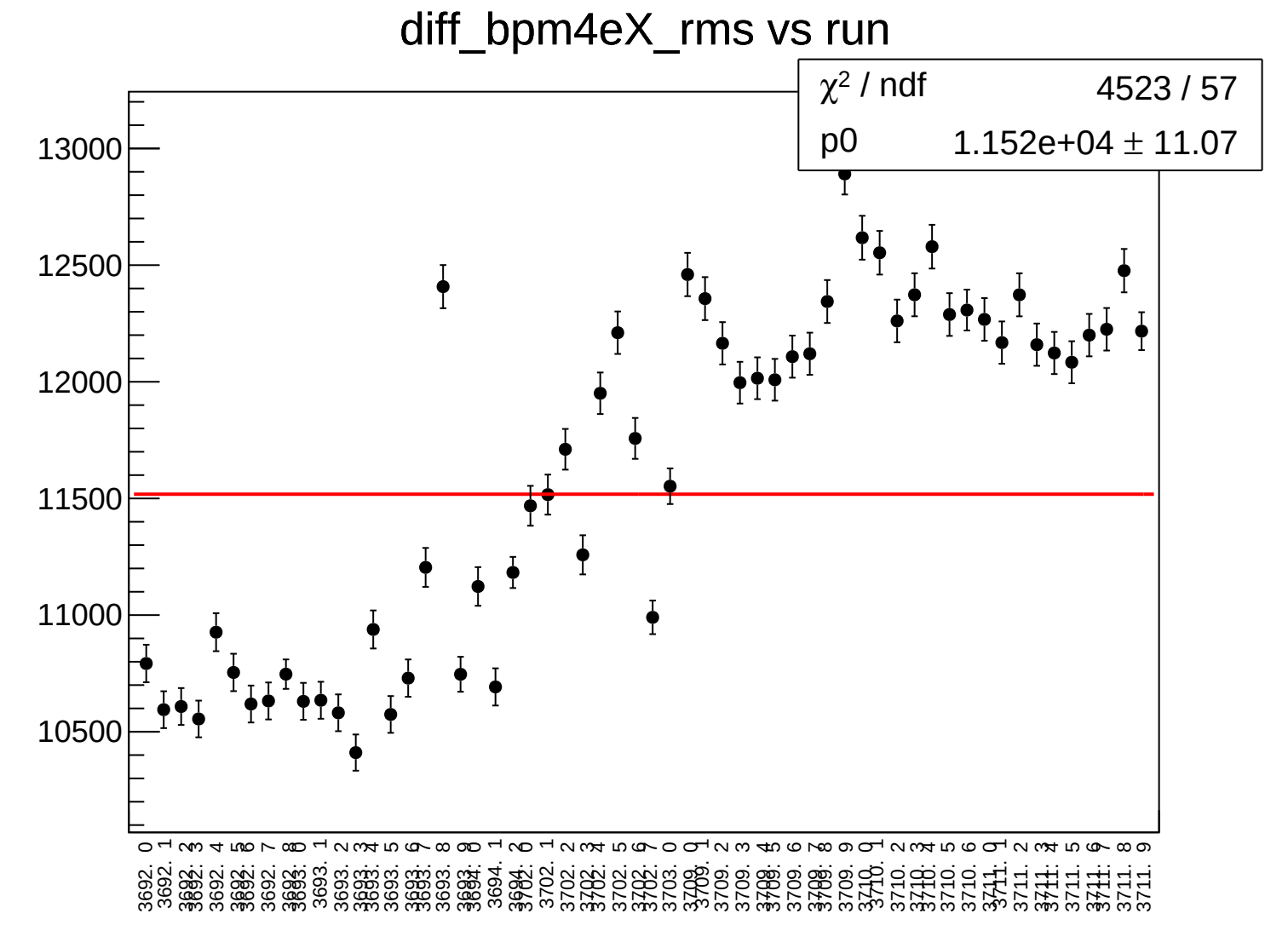

diff_bpm4aY_mean vs run
χ² / ndf 56.6 / 57
p0 21.58 ± 9.534
300
200
100
0
−100
−200
pull
Entries 58
Mean 231.8
Std Dev 207.8
2
1
0
−1
−2

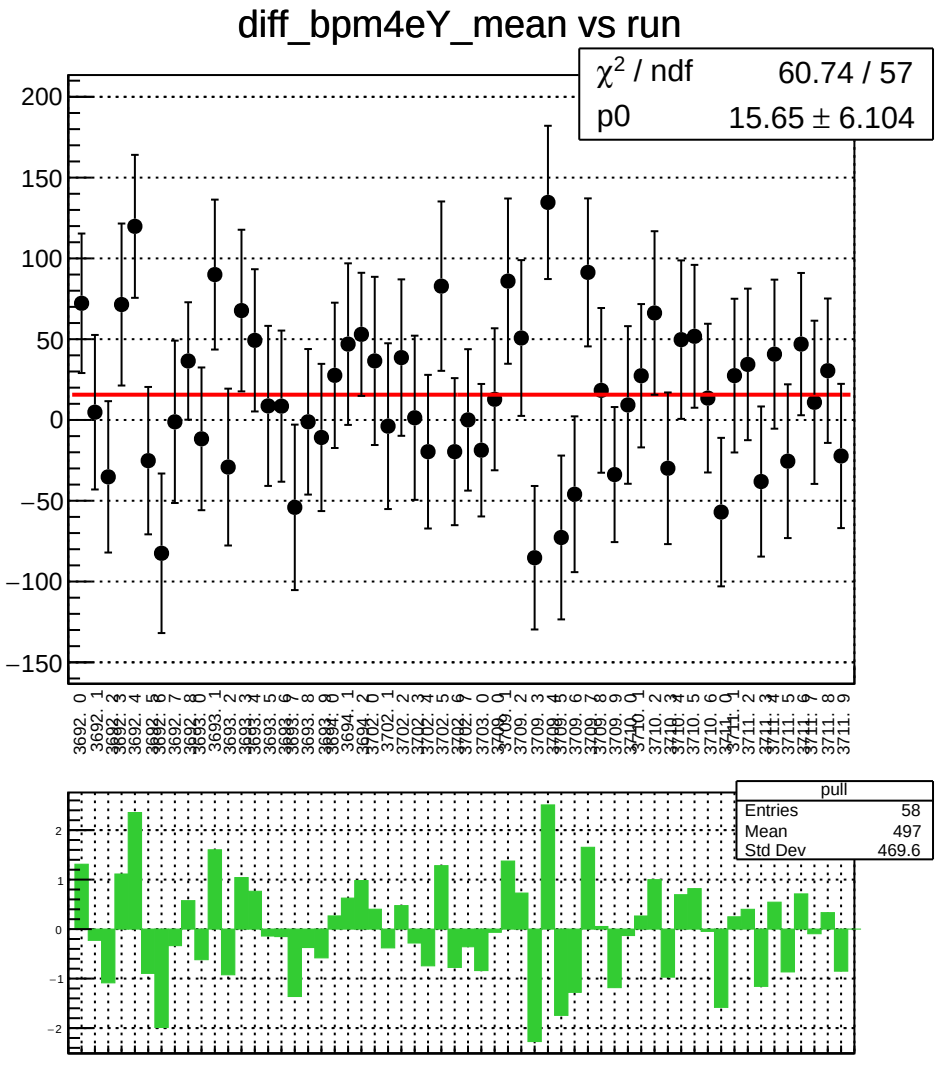

pull1D
Entries 58
Mean −0.005219
Std Dev 0.9879
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

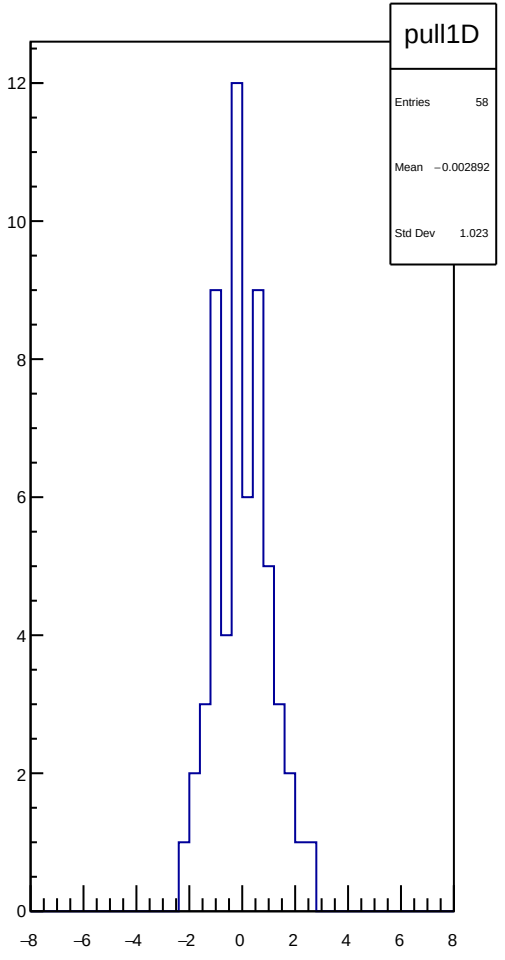

diff_bpm4aY_rms vs run
χ² / ndf 3713 / 57
p0 7019 ± 6.741
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

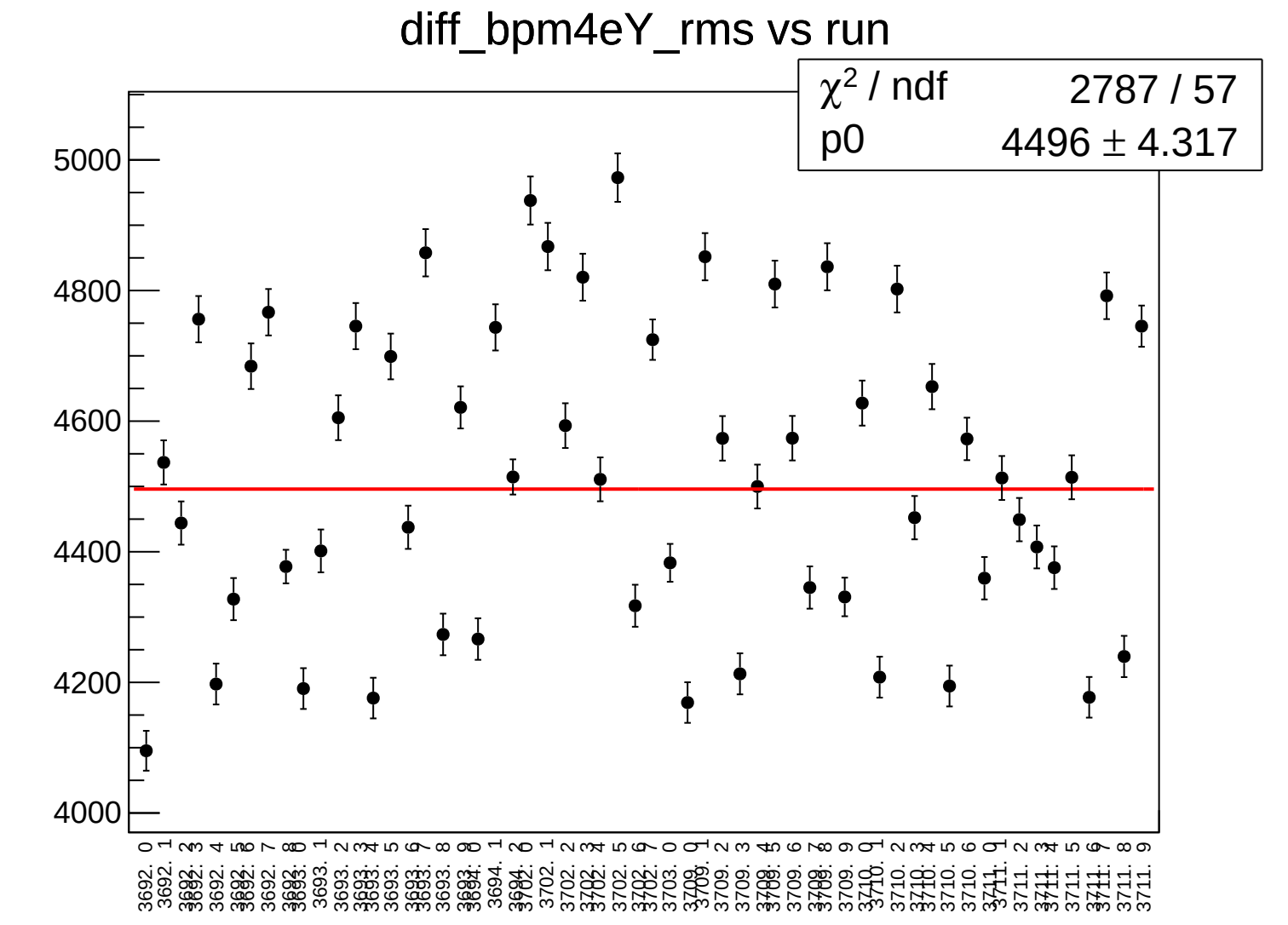

diff_bpm4eX_mean vs run
χ² / ndf 60.23 / 57
p0 −12.95 ± 15.65
pull
Entries 58
Mean −189.1
Std Dev 223.2

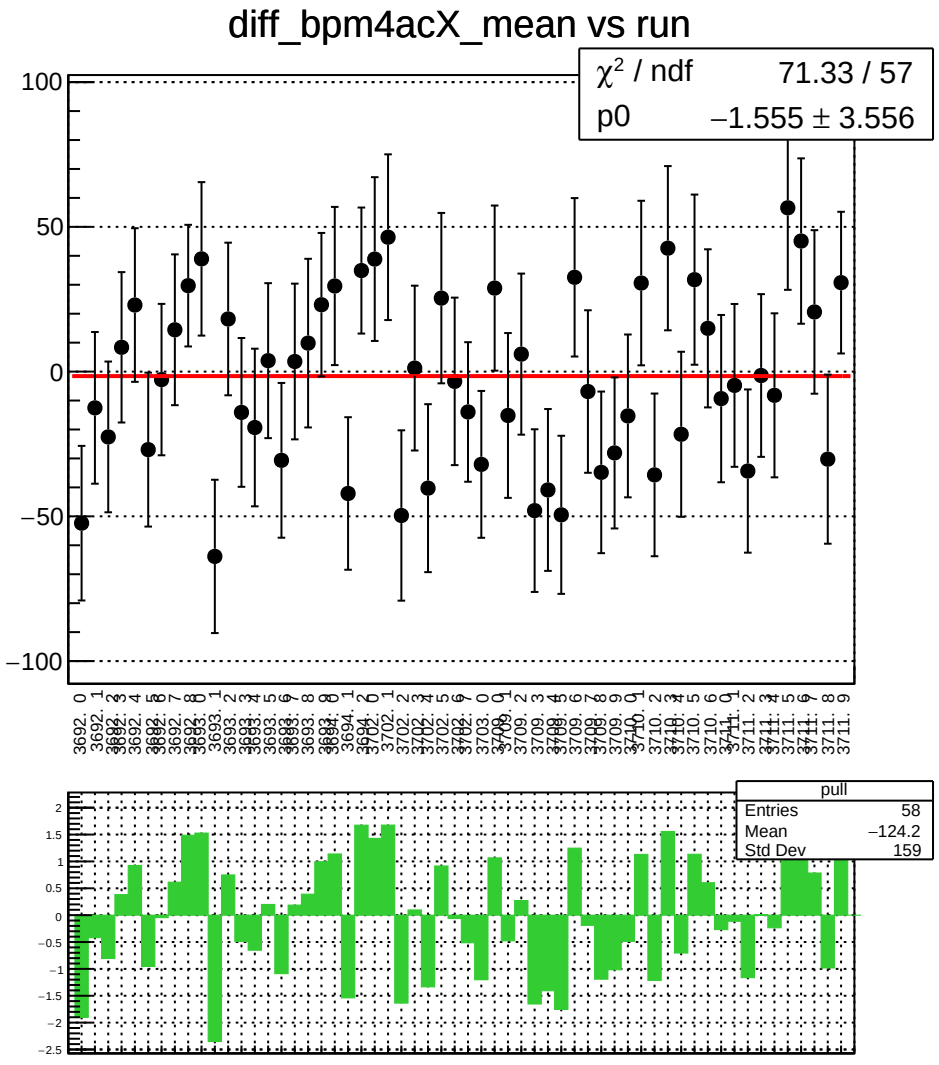

pull1D
Entries 58
Mean −0.01006
Std Dev 1.019

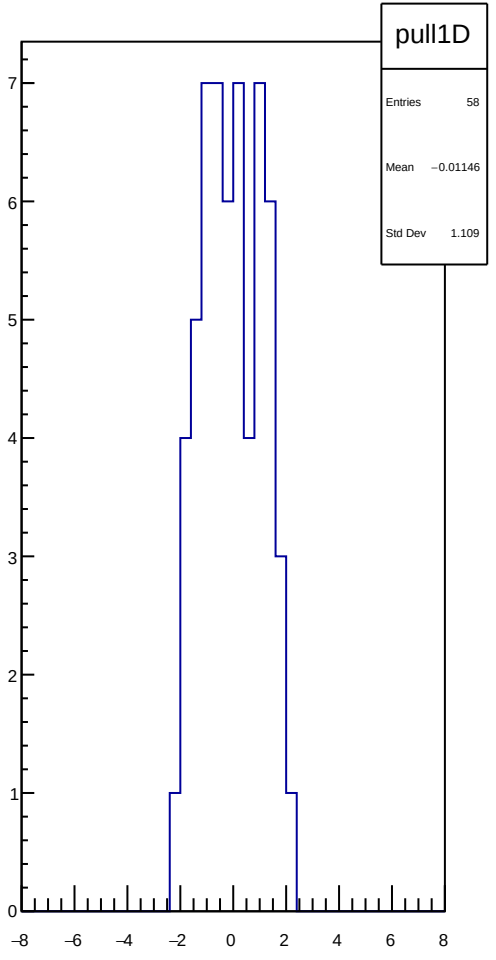

diff_bpm4eX_rms vs run
χ² / ndf 4523 / 57
p0 1.152e+04 ± 11.07
13000
12500
12000
11500
11000
10500

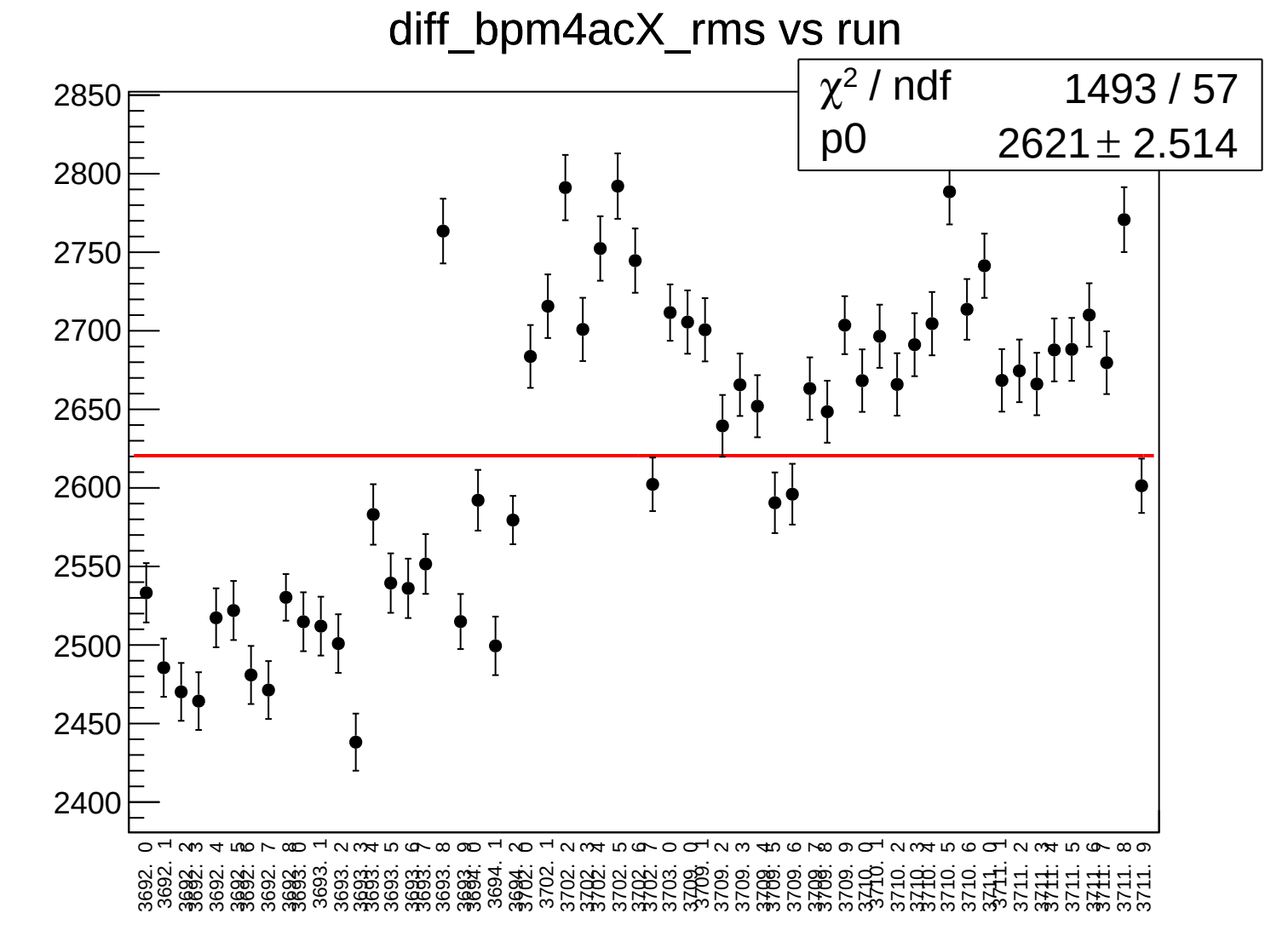

diff_bpm4eY_mean vs run
χ² / ndf 60.74 / 57
p0 15.65 ± 6.104
pull
Entries 58
Mean 497
Std Dev 469.6

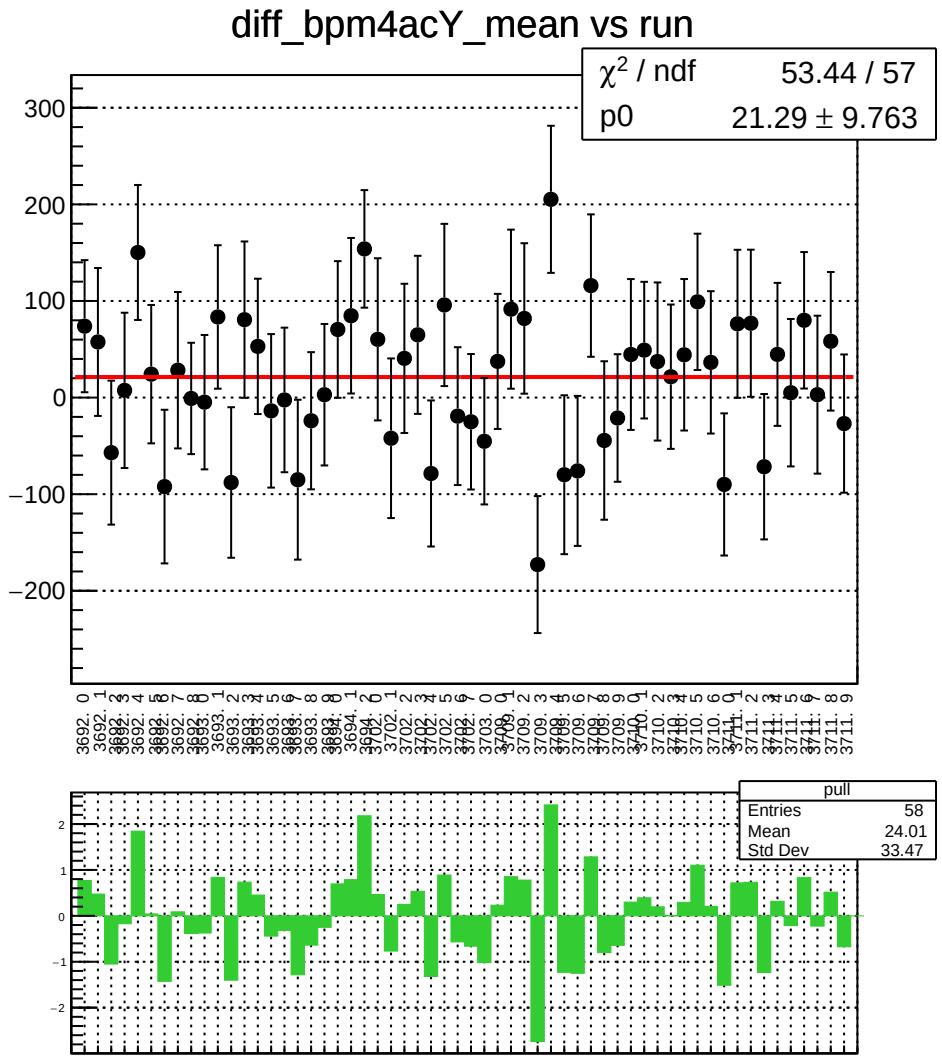

pull1D
Entries 58
Mean −0.002892
Std Dev 1.023

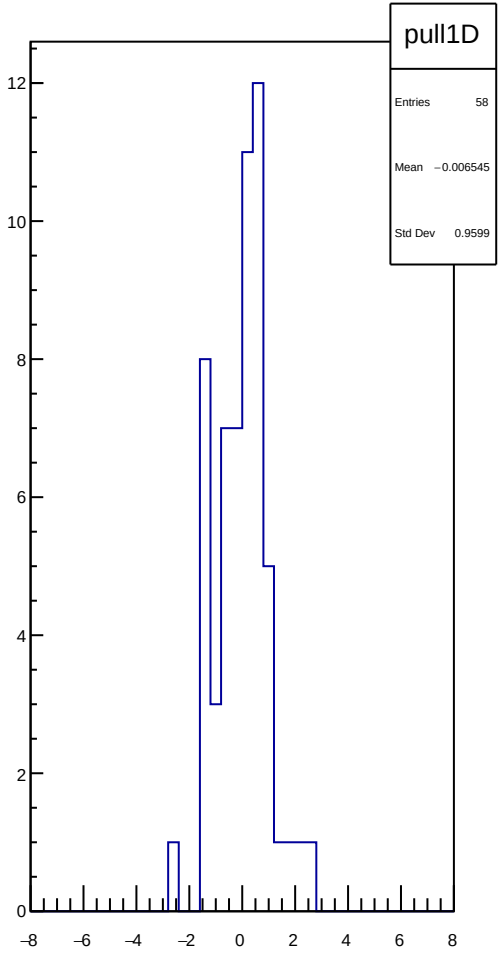

diff_bpm4eY_rms vs run
χ² / ndf 2787 / 57
p0 4496 ± 4.317
5000
4800
4600
4400
4200
4000

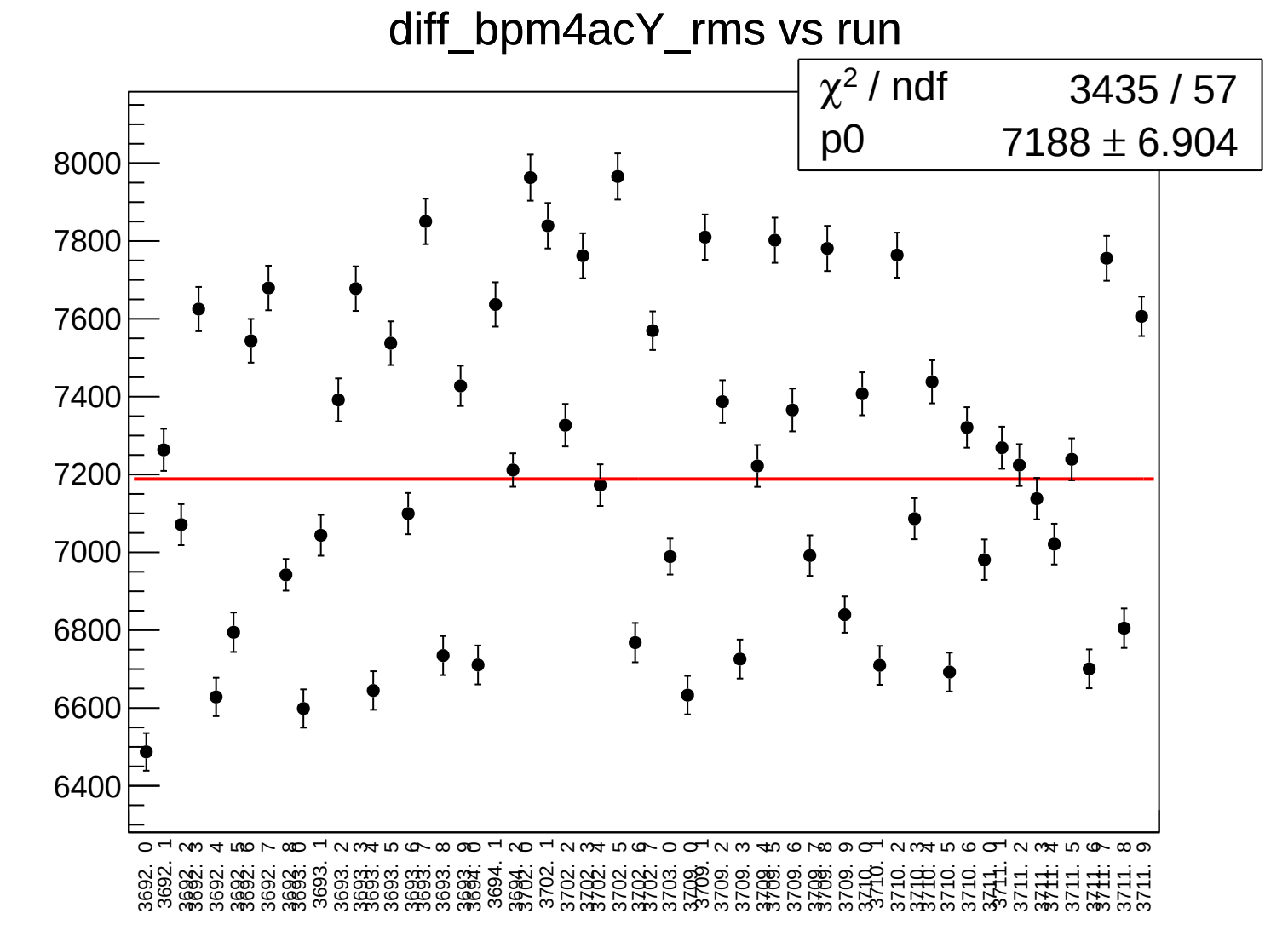

diff_bpm4acX_mean vs run
χ² / ndf 71.33 / 57
p0 −1.555 ± 3.556
pull
Entries 58
Mean −124.2
Std Dev 159

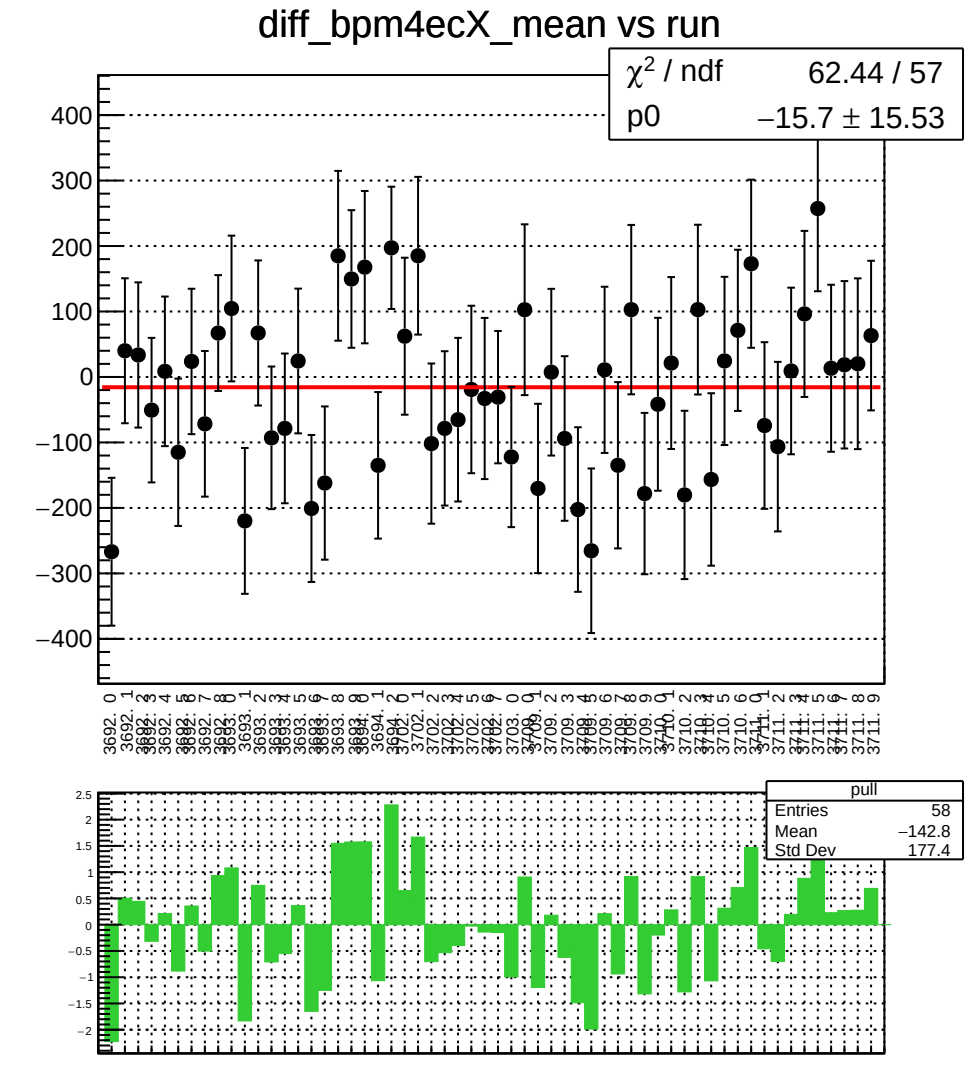

pull1D
Entries 58
Mean −0.01146
Std Dev 1.109

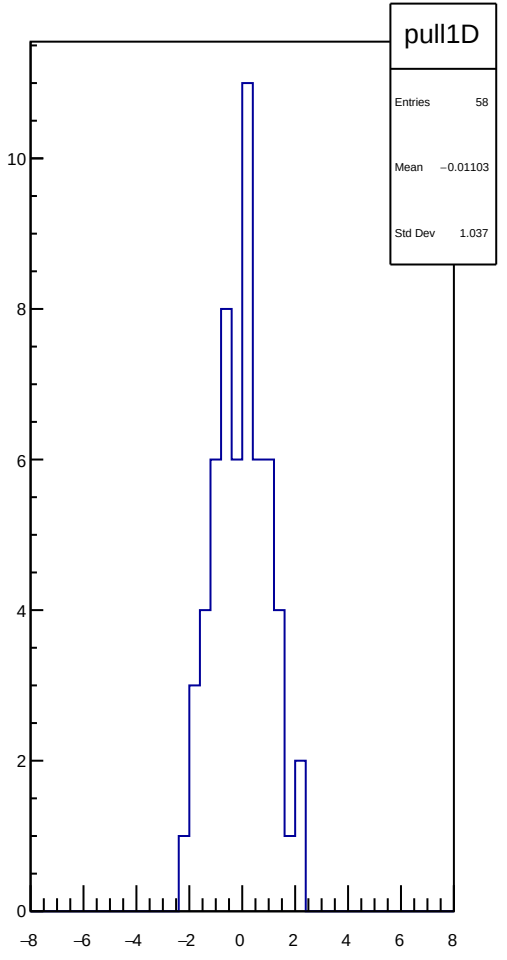

diff_bpm4acX_rms vs run
χ² / ndf 1493 / 57
p0 2621 ± 2.514
2850
2800
2750
2700
2650
2600
2550
2500
2450
2400
3692. 0
3692. 1
3692. 4
3692. 5
3692. 7
3693. 1
3693. 2
3693. 5
3693. 8
3694. 1
3702. 1
3702. 2
3702. 5
3703. 0
3709. 2
3709. 3
3709. 6
3709. 9
3710. 1
3710. 2
3710. 5
3710. 6
3711. 1
3711. 2
3711. 5
3711. 8
3711. 9

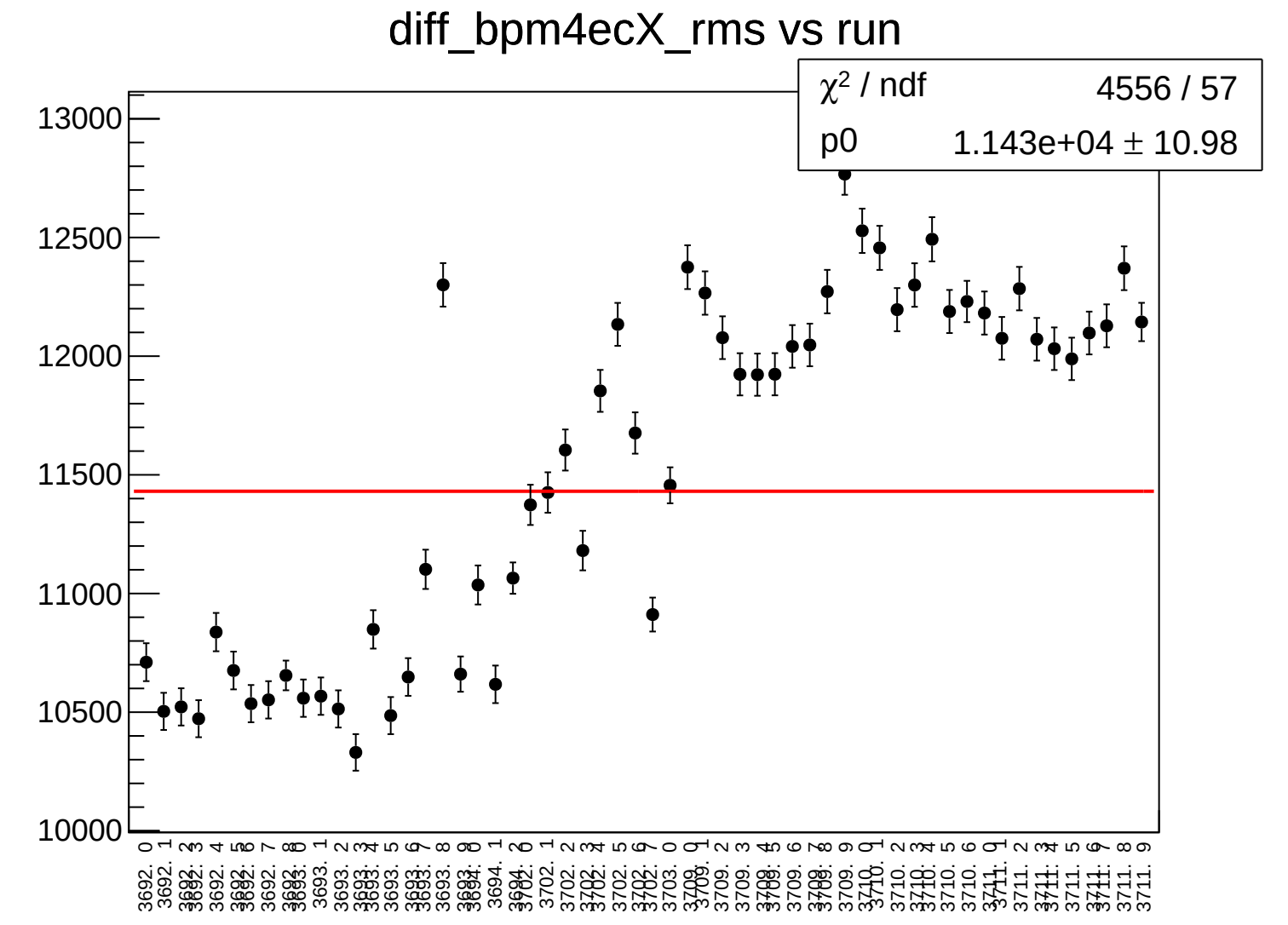

diff_bpm4acY_mean vs run
χ² / ndf 53.44 / 57
p0 21.29 ± 9.763
pull
Entries 58
Mean 24.01
Std Dev 33.47

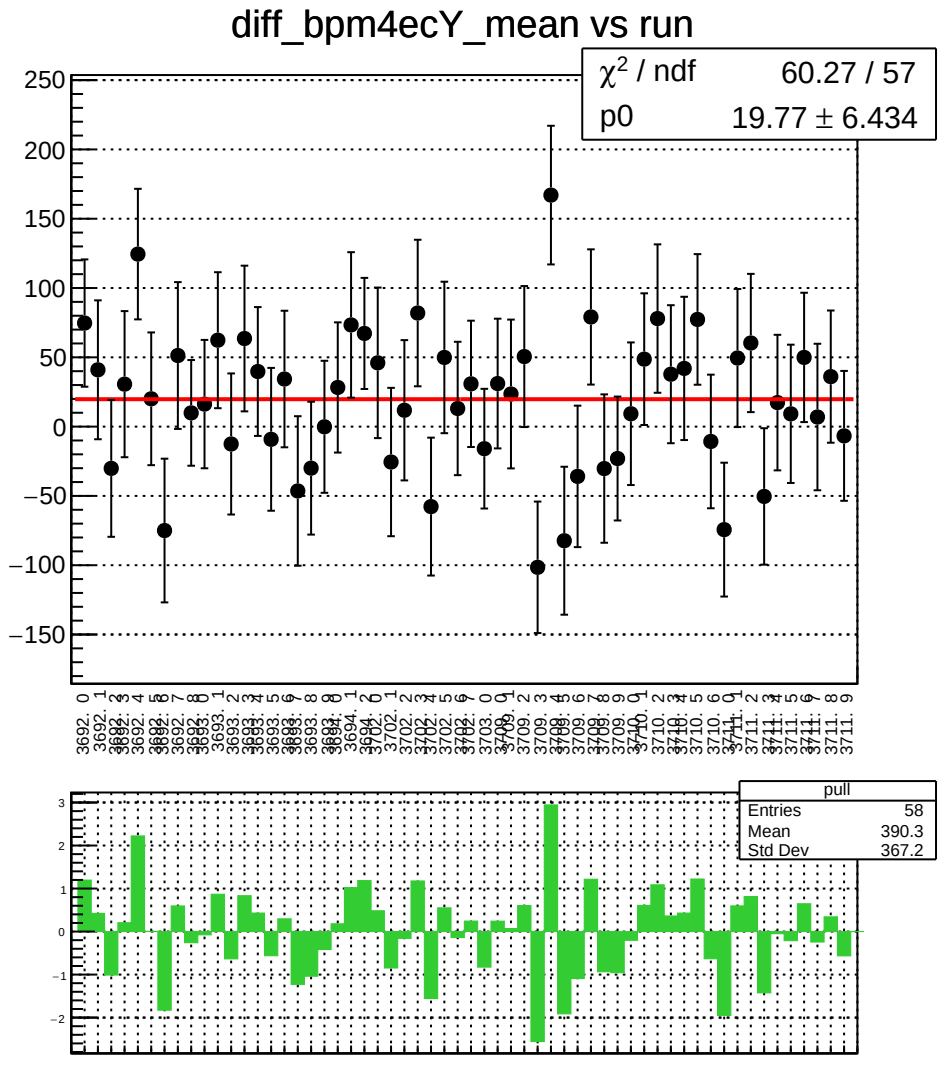

pull1D
Entries 58
Mean −0.006545
Std Dev 0.9599

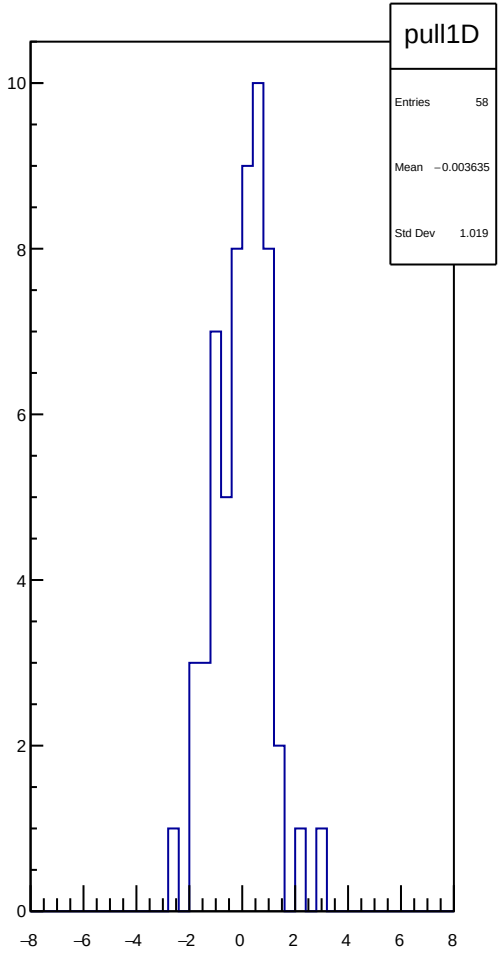

diff_bpm4acY_rms vs run
χ² / ndf 3435 / 57
p0 7188 ± 6.904
8000
7800
7600
7400
7200
7000
6800
6600
6400

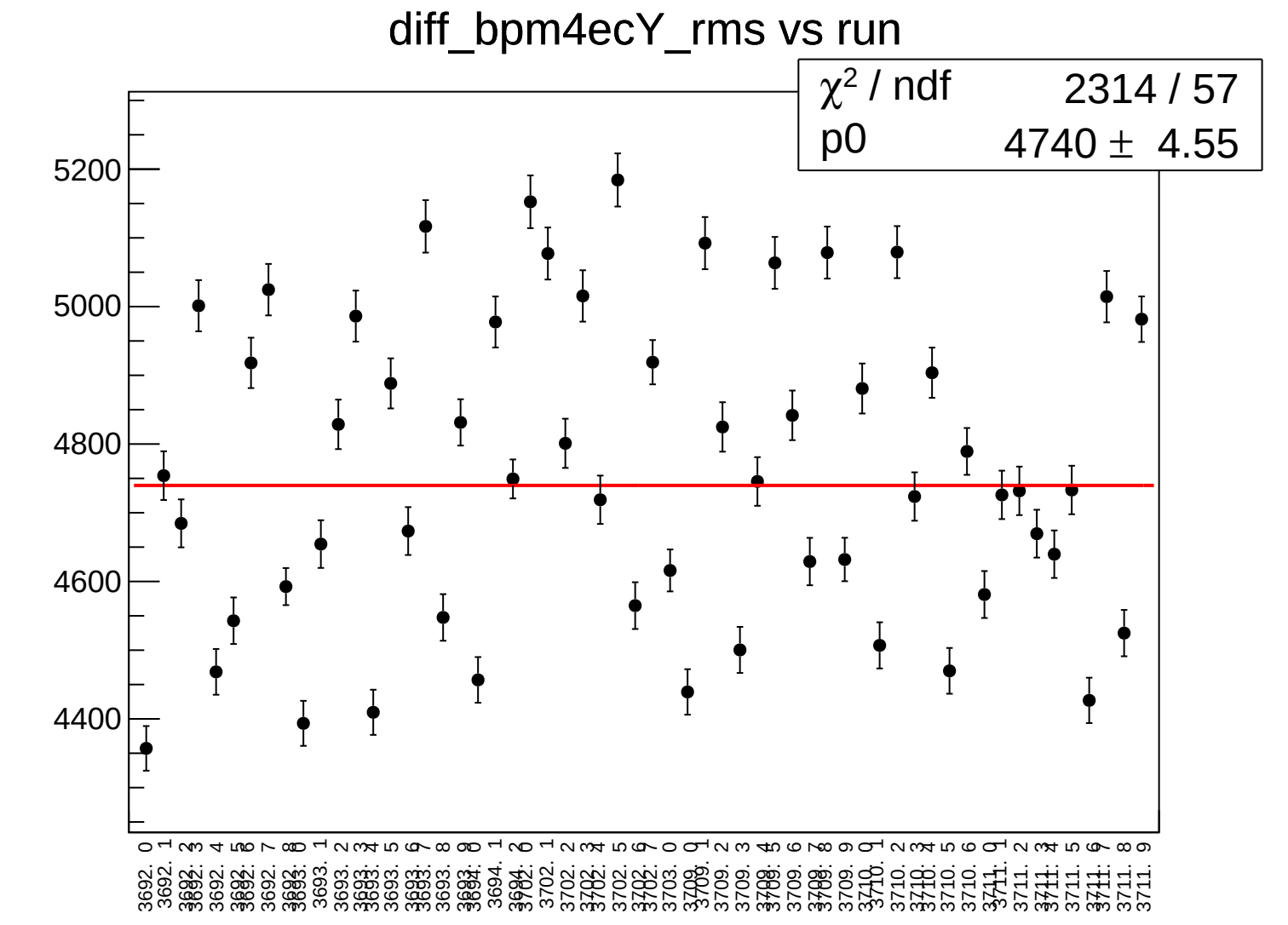

diff_bpm4ecX_mean vs run
χ² / ndf 62.44 / 57
p0 −15.7 ± 15.53
pull
Entries 58
Mean −142.8
Std Dev 177.4

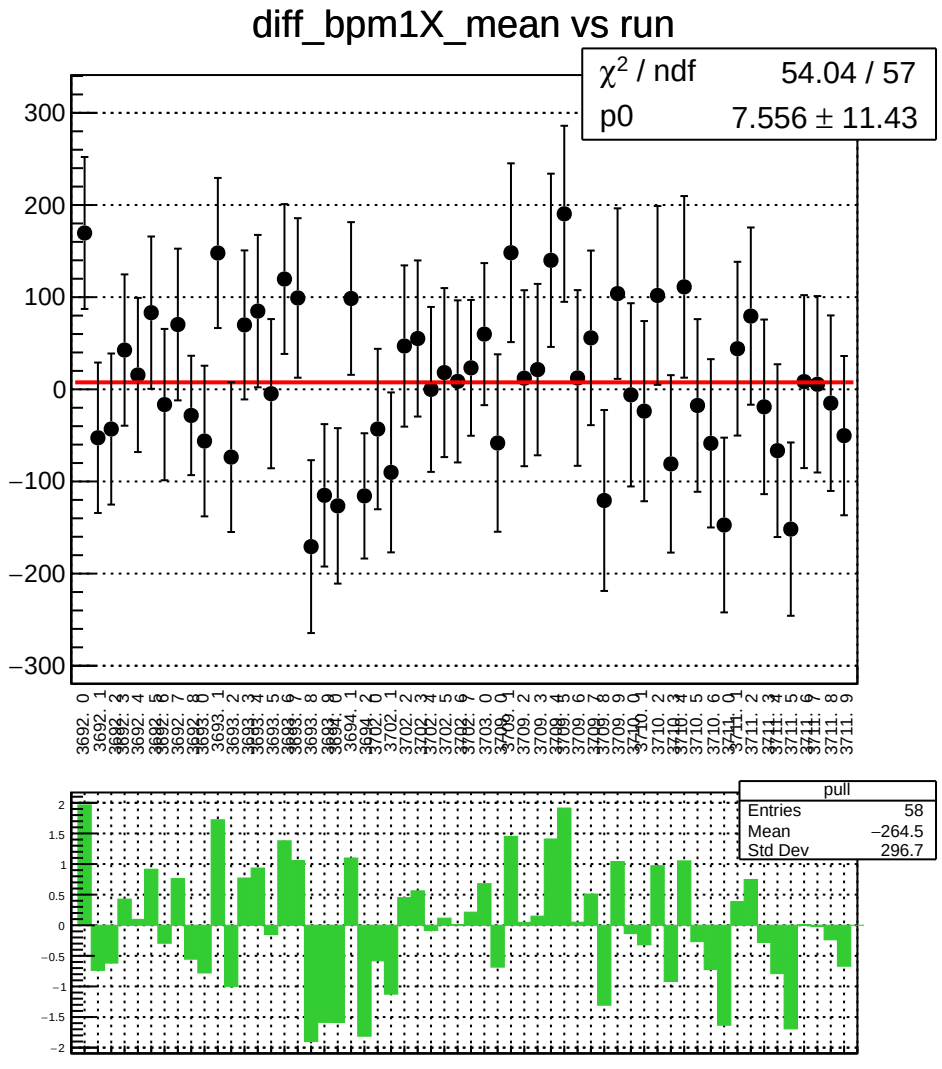

pull1D
Entries 58
Mean −0.01103
Std Dev 1.037

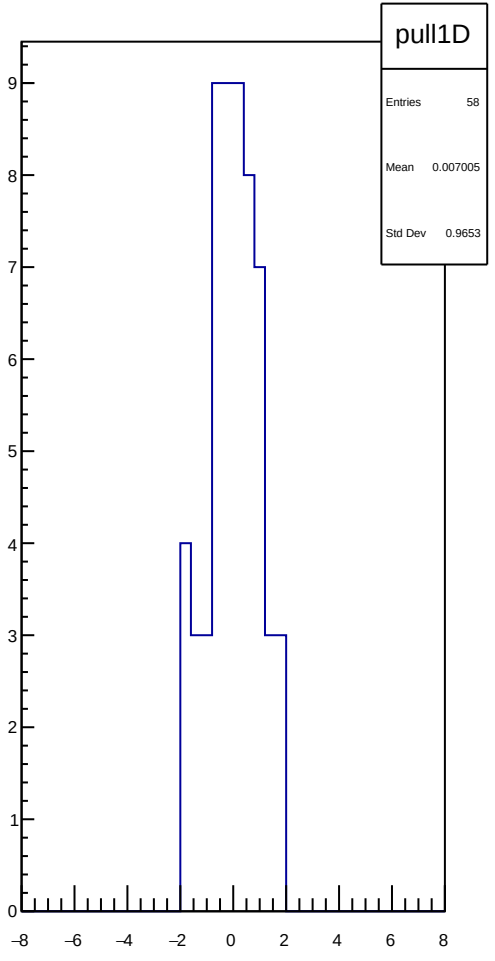

diff_bpm4ecX_rms vs run
χ² / ndf 4556 / 57
p0 1.143e+04 ± 10.98
13000
12500
12000
11500
11000
10500
10000

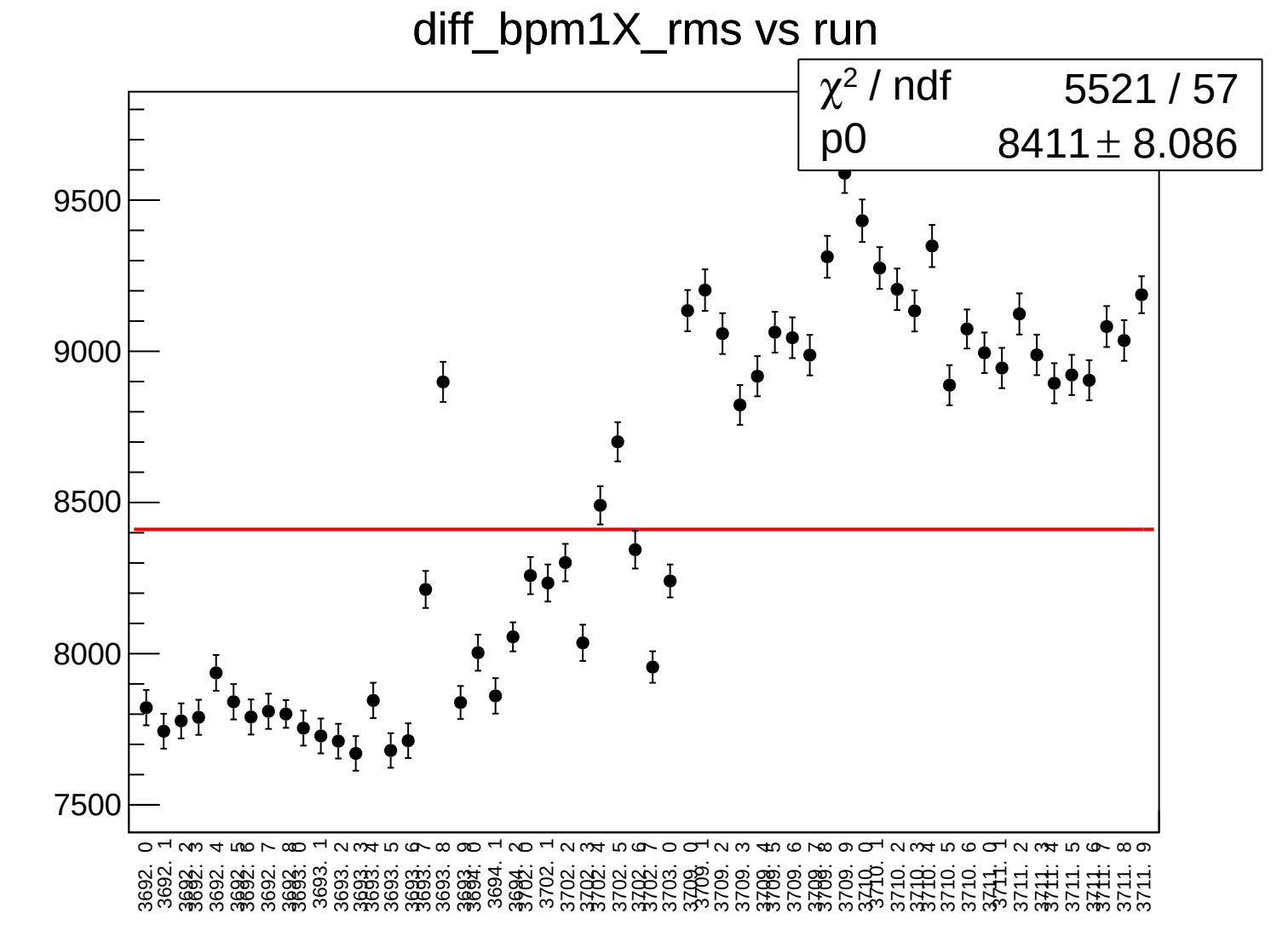

diff_bpm4ecY_mean vs run
χ² / ndf 60.27 / 57
p0 19.77 ± 6.434
pull
Entries 58
Mean 390.3
Std Dev 367.2

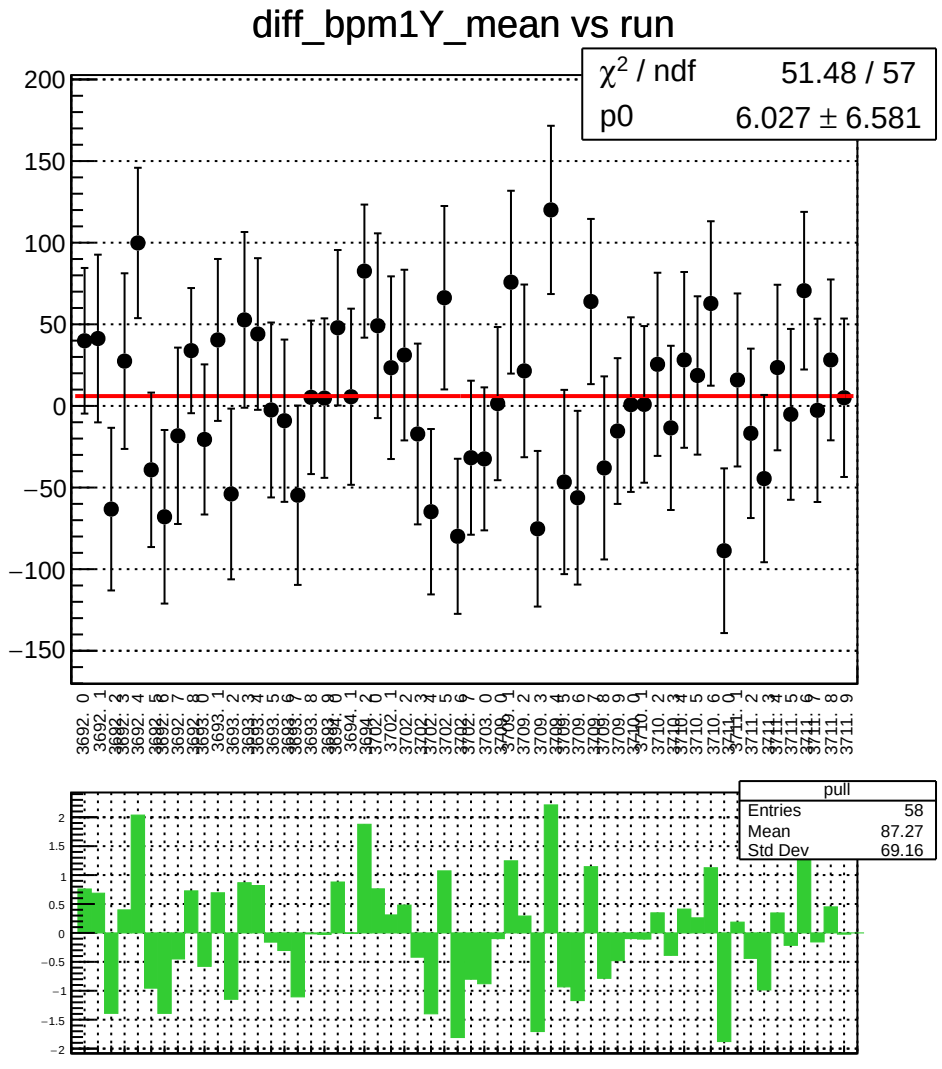

pull1D
Entries 58
Mean −0.003635
Std Dev 1.019

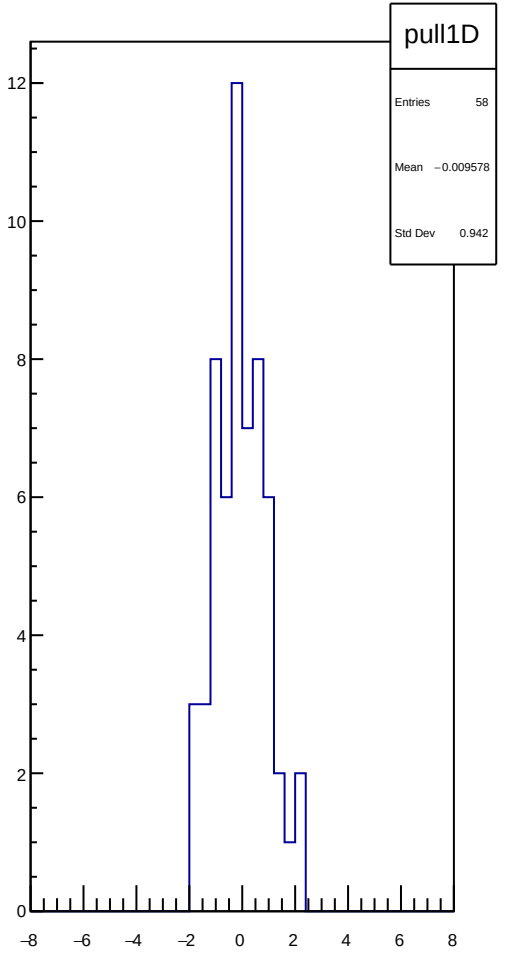

diff_bpm4ecY_rms vs run
χ² / ndf 2314 / 57
p0 4740 ± 4.55
5200
5000
4800
4600
4400

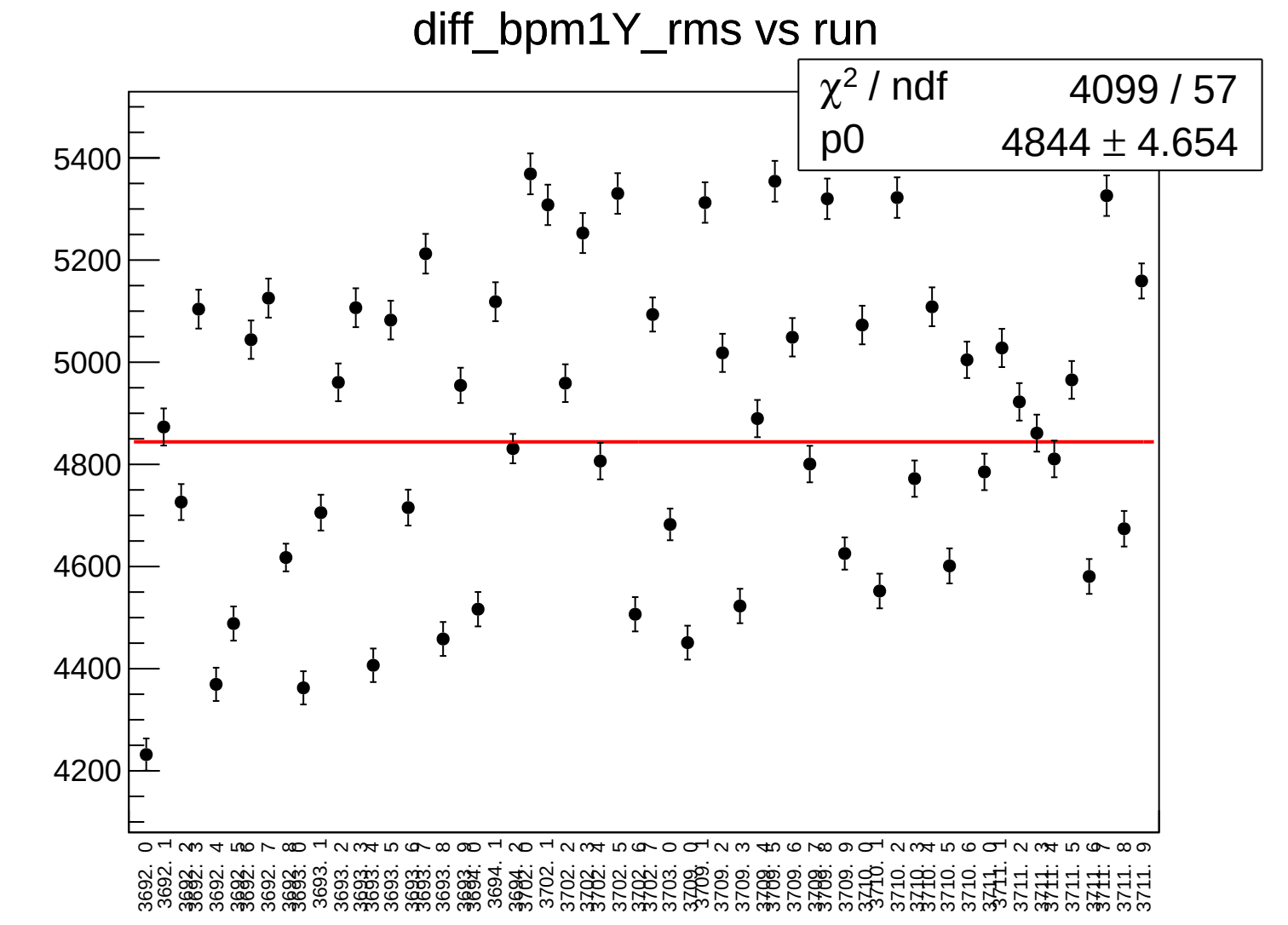

diff_bpm1X_mean vs run
χ² / ndf 54.04 / 57
p0 7.556 ± 11.43
pull
Entries 58
Mean −264.5
Std Dev 296.7

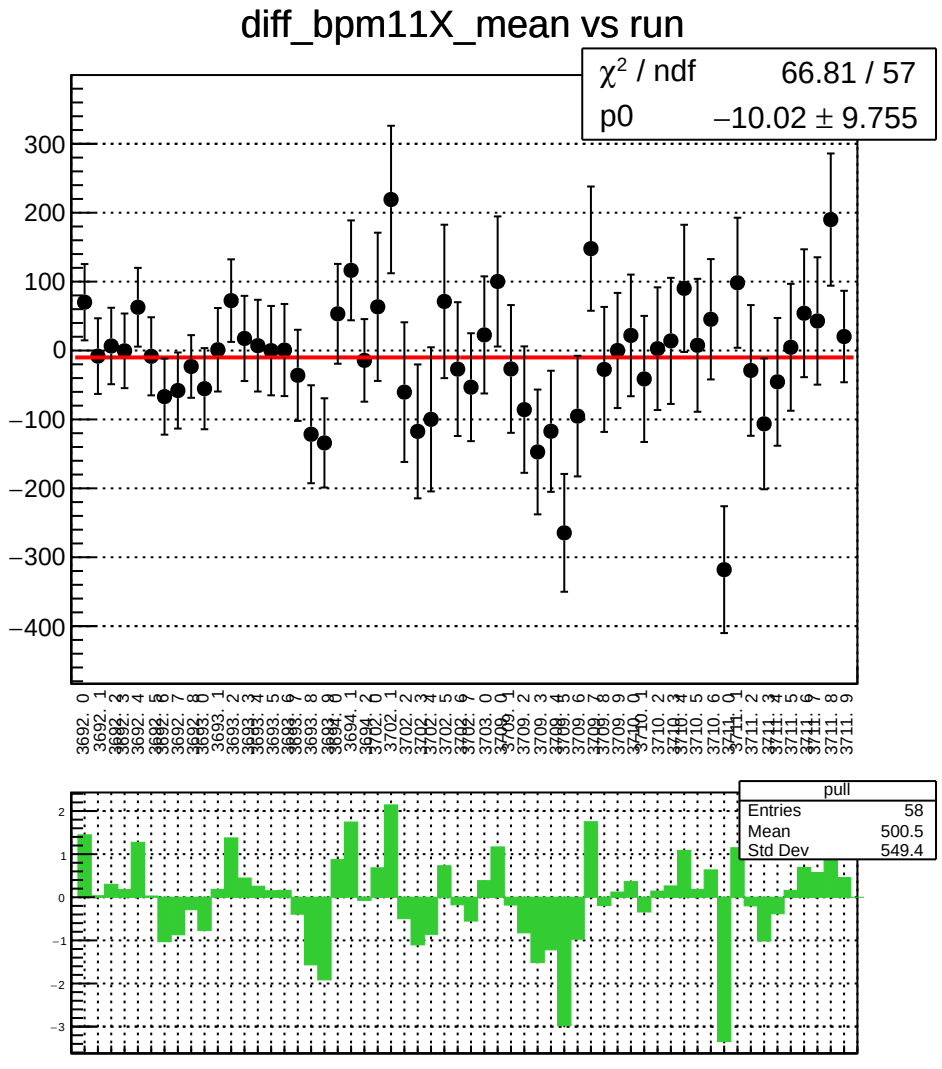

pull1D
Entries 58
Mean 0.007005
Std Dev 0.9653

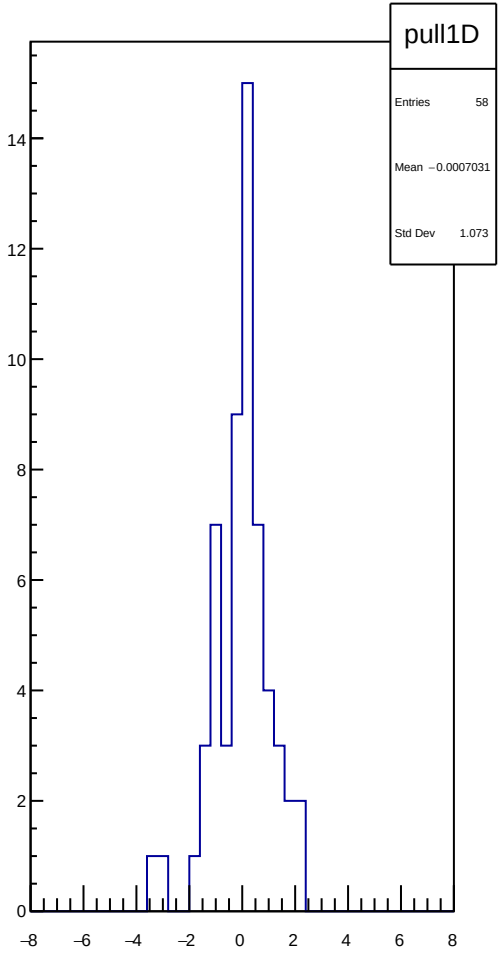

diff_bpm1X_rms vs run
χ² / ndf 5521 / 57
p0 8411 ± 8.086
9500
9000
8500
8000
7500

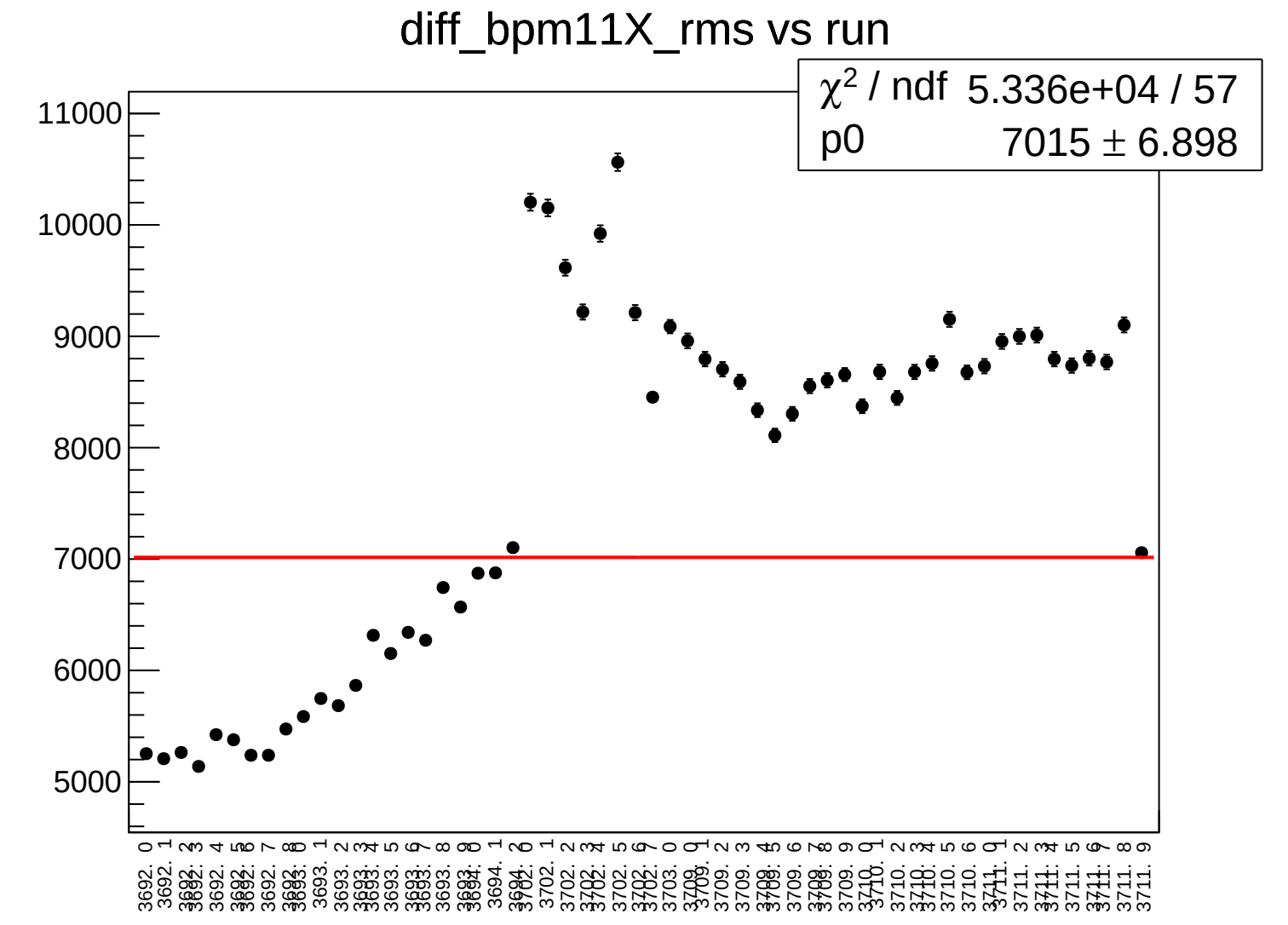

diff_bpm1Y_mean vs run
χ² / ndf 51.48 / 57
p0 6.027 ± 6.581
pull
Entries 58
Mean 87.27
Std Dev 69.16

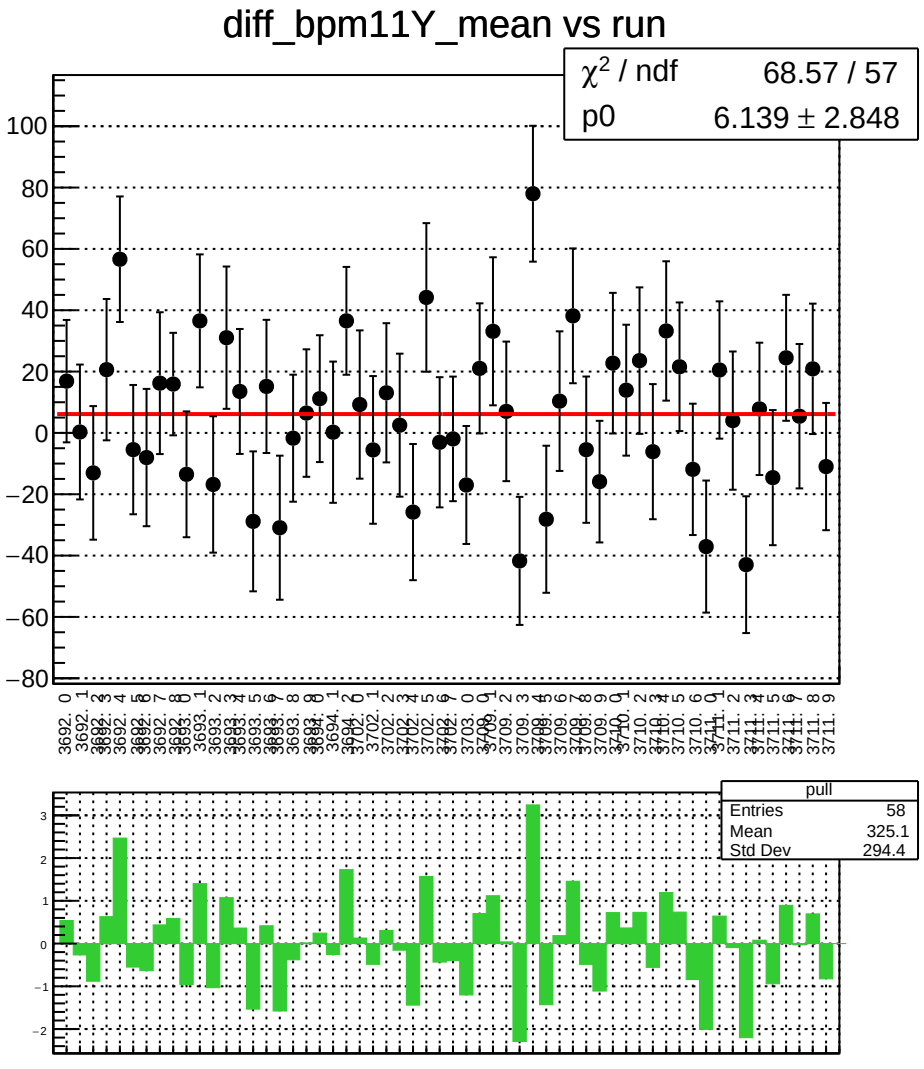

pull1D
Entries 58
Mean −0.009578
Std Dev 0.942

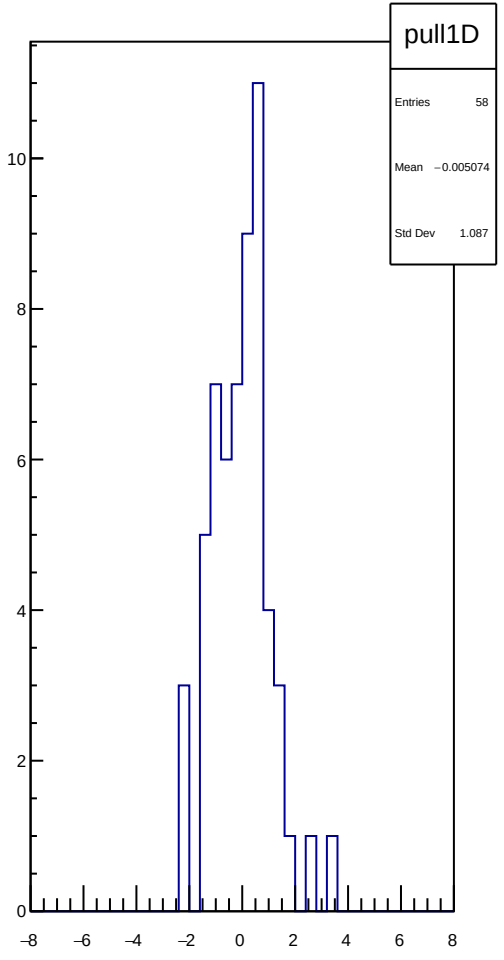

diff_bpm1Y_rms vs run
χ² / ndf 4099 / 57
p0 4844 ± 4.654
5400
5200
5000
4800
4600
4400
4200

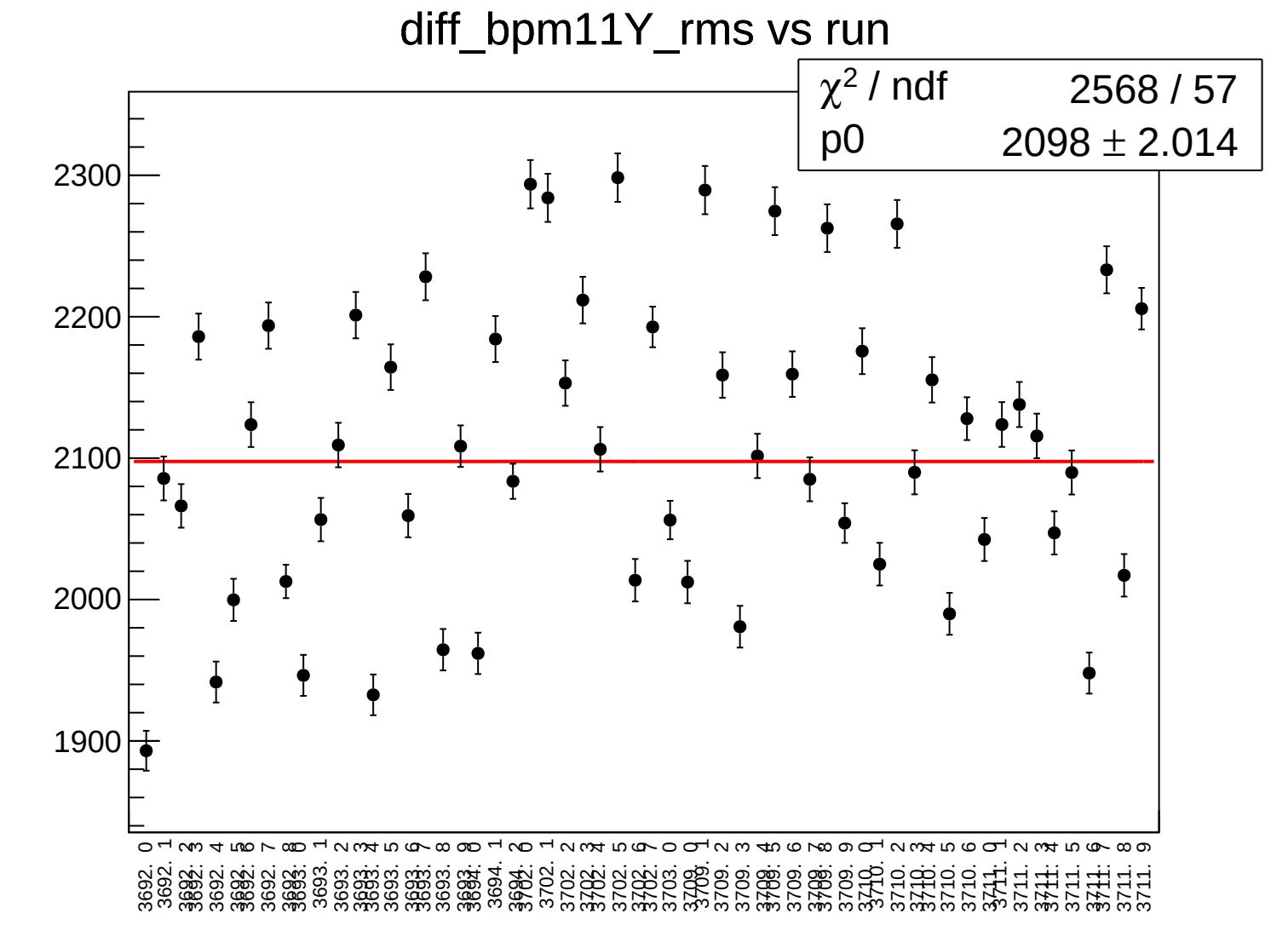

diff_bpm11X_mean vs run
χ² / ndf 66.81 / 57
p0 −10.02 ± 9.755
pull
Entries 58
Mean 500.5
Std Dev 549.4

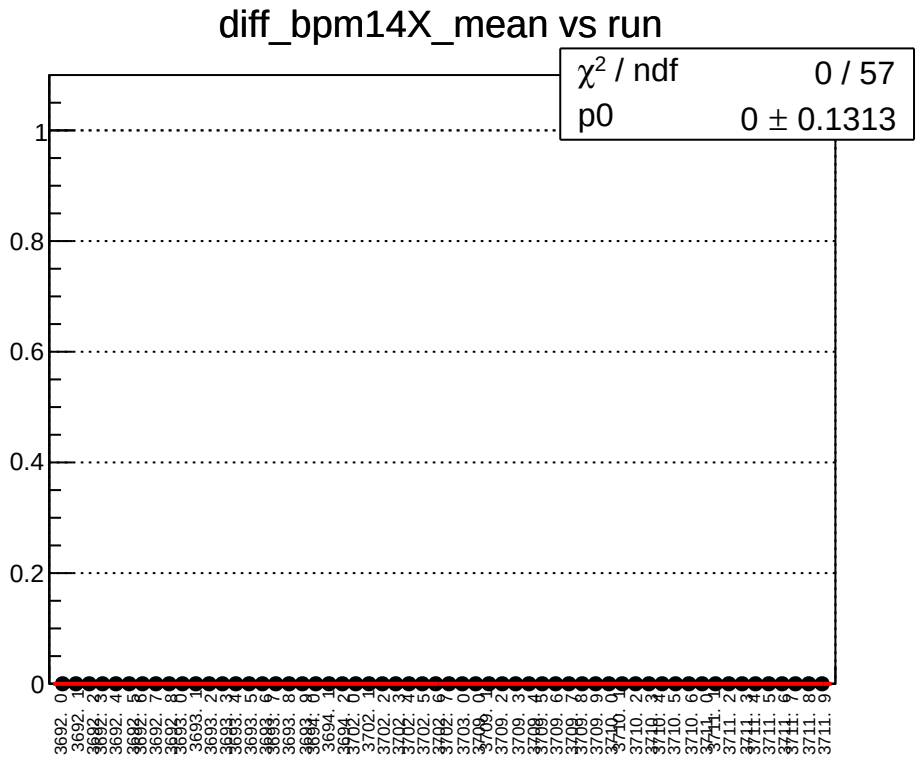

pull1D
Entries 58
Mean −0.0007031
Std Dev 1.073

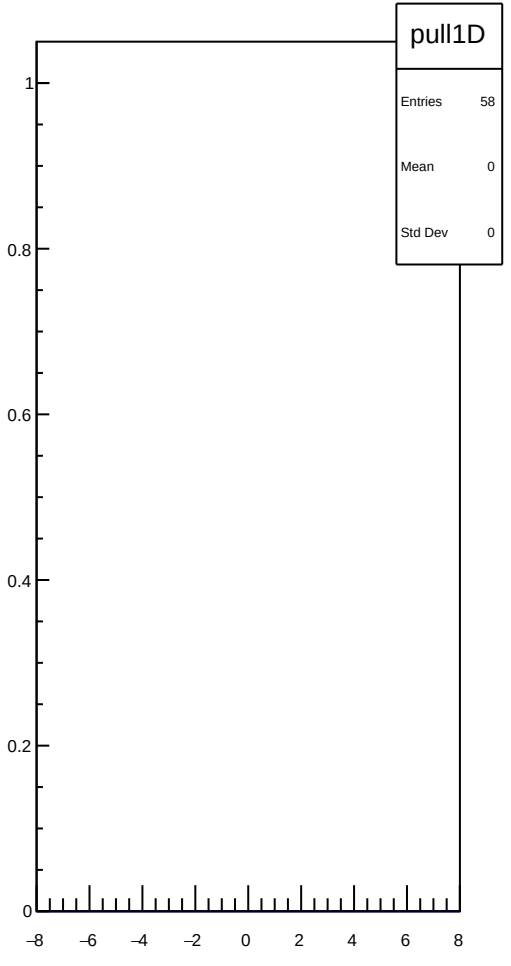

diff_bpm11X_rms vs run
χ^2 / ndf 5.336e+04 / 57
p0 7015 ± 6.898
11000
10000
9000
8000
7000
6000
5000

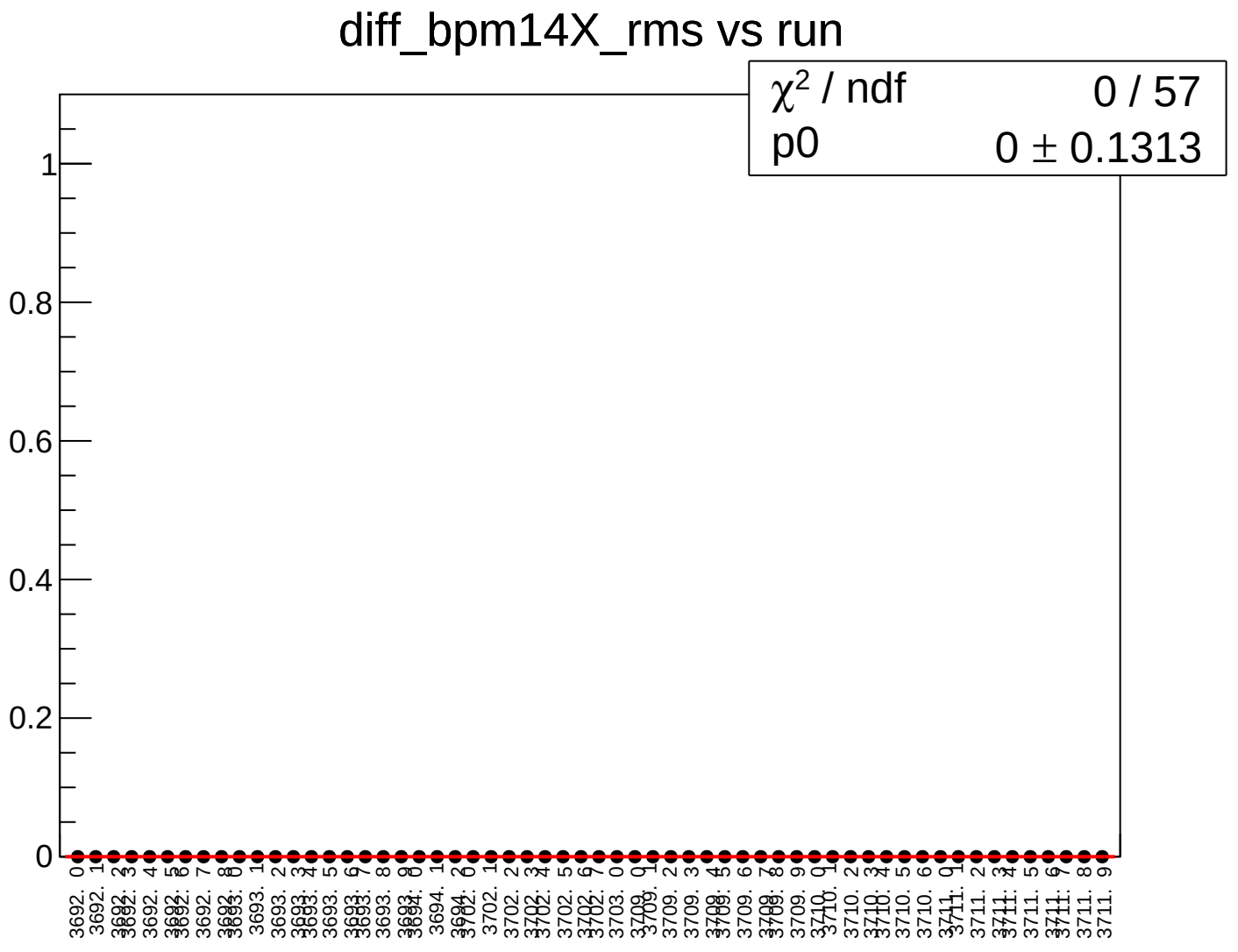

diff_bpm11Y_mean vs run
χ² / ndf 68.57 / 57
p0 6.139 ± 2.848
pull
Entries 58
Mean 325.1
Std Dev 294.4

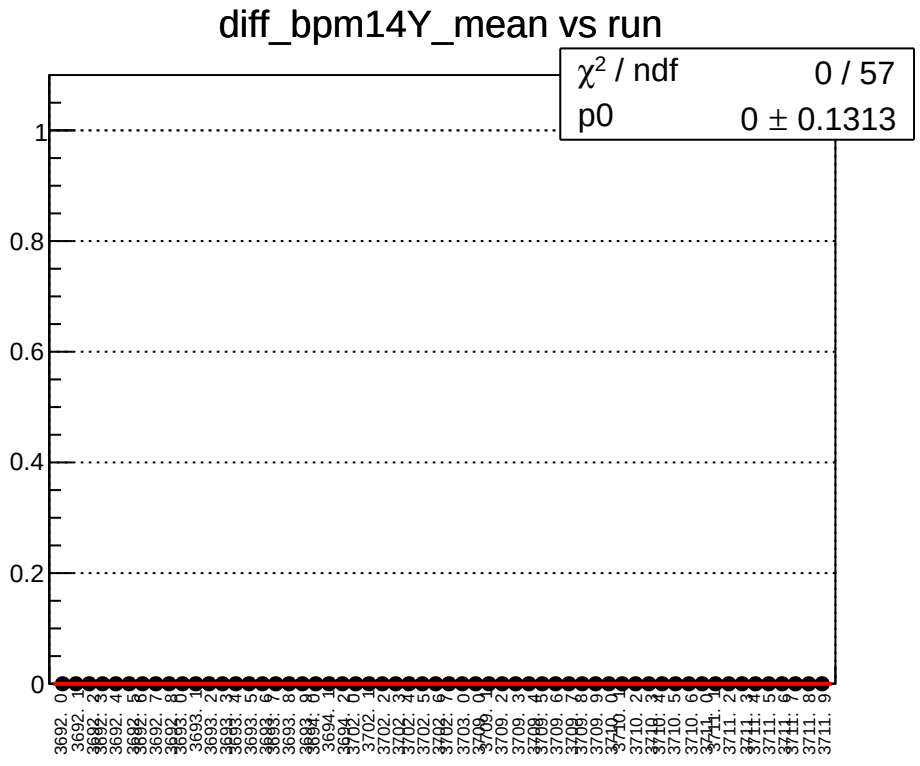

pull1D
Entries 58
Mean −0.005074
Std Dev 1.087

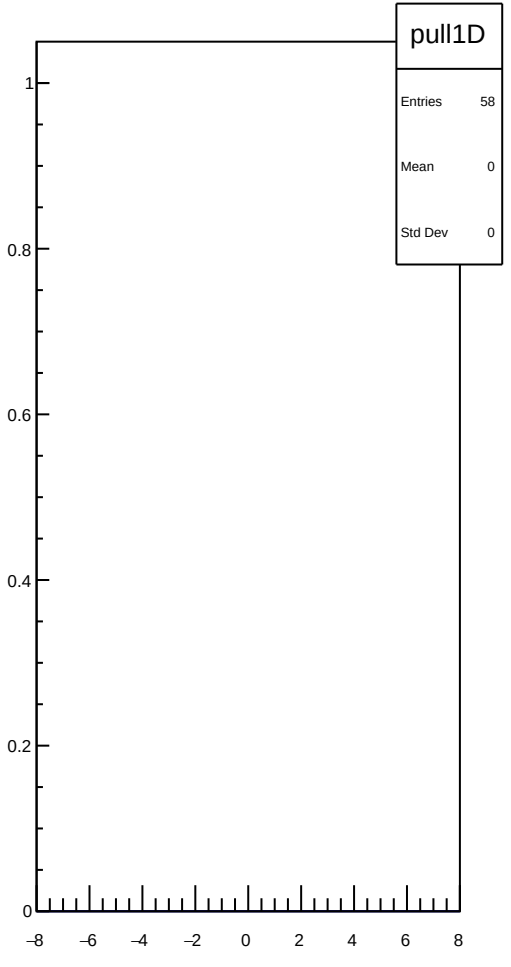

diff_bpm11Y_rms vs run
χ² / ndf 2568 / 57
p0 2098 ± 2.014
2300
2200
2100
2000
1900
3692. 0
3692. 1
3692. 2
3692. 3
3692. 4
3692. 5
3692. 6
3692. 7
3693. 1
3693. 2
3693. 3
3693. 4
3693. 5
3693. 6
3693. 7
3693. 8
3694. 1
3702. 1
3702. 2
3702. 5
3703. 0
3709. 1
3709. 2
3709. 3
3709. 6
3709. 9
3710. 1
3710. 2
3710. 5
3710. 6
3711. 1
3711. 2
3711. 5
3711. 8
3711. 9

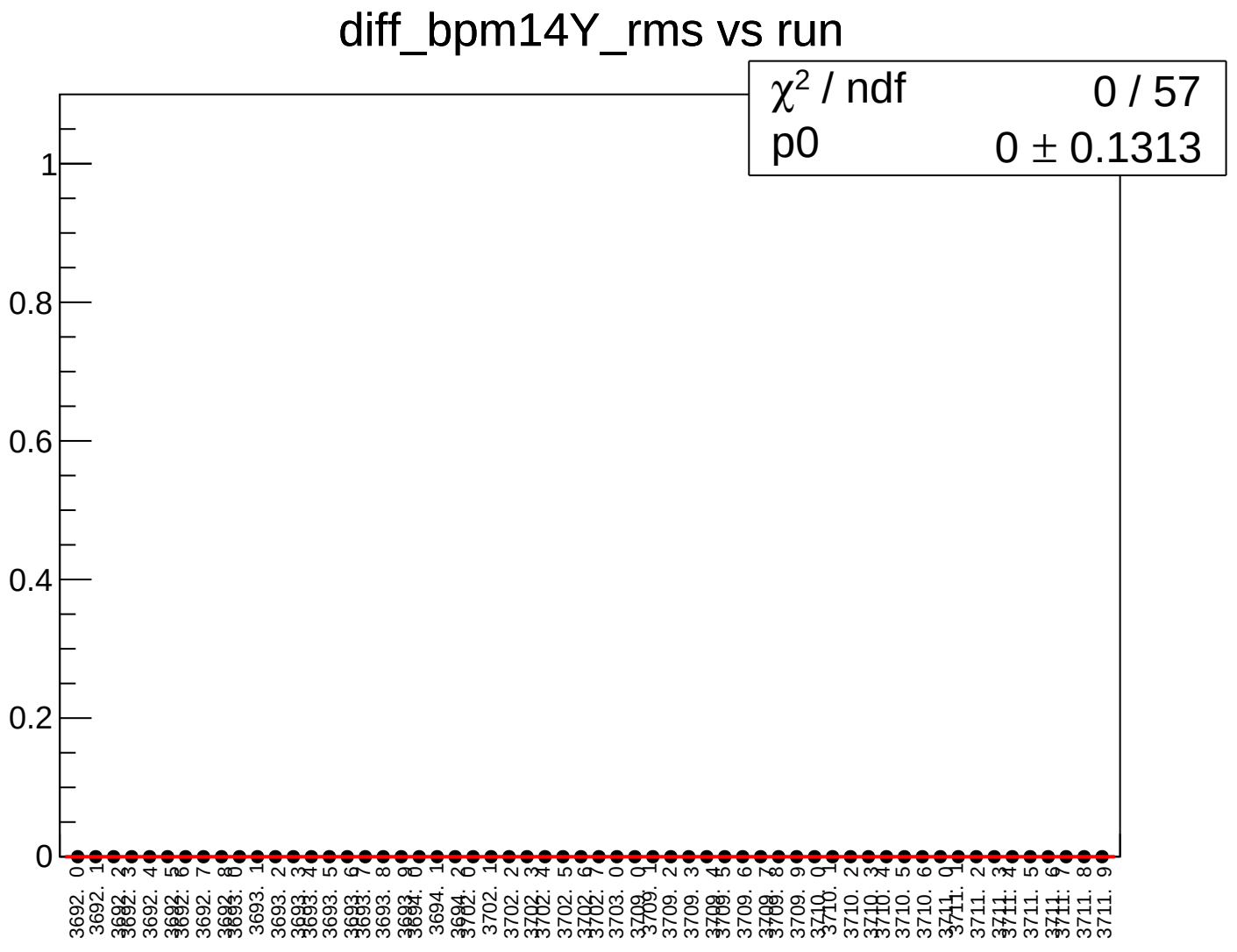

diff_bpm14X_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

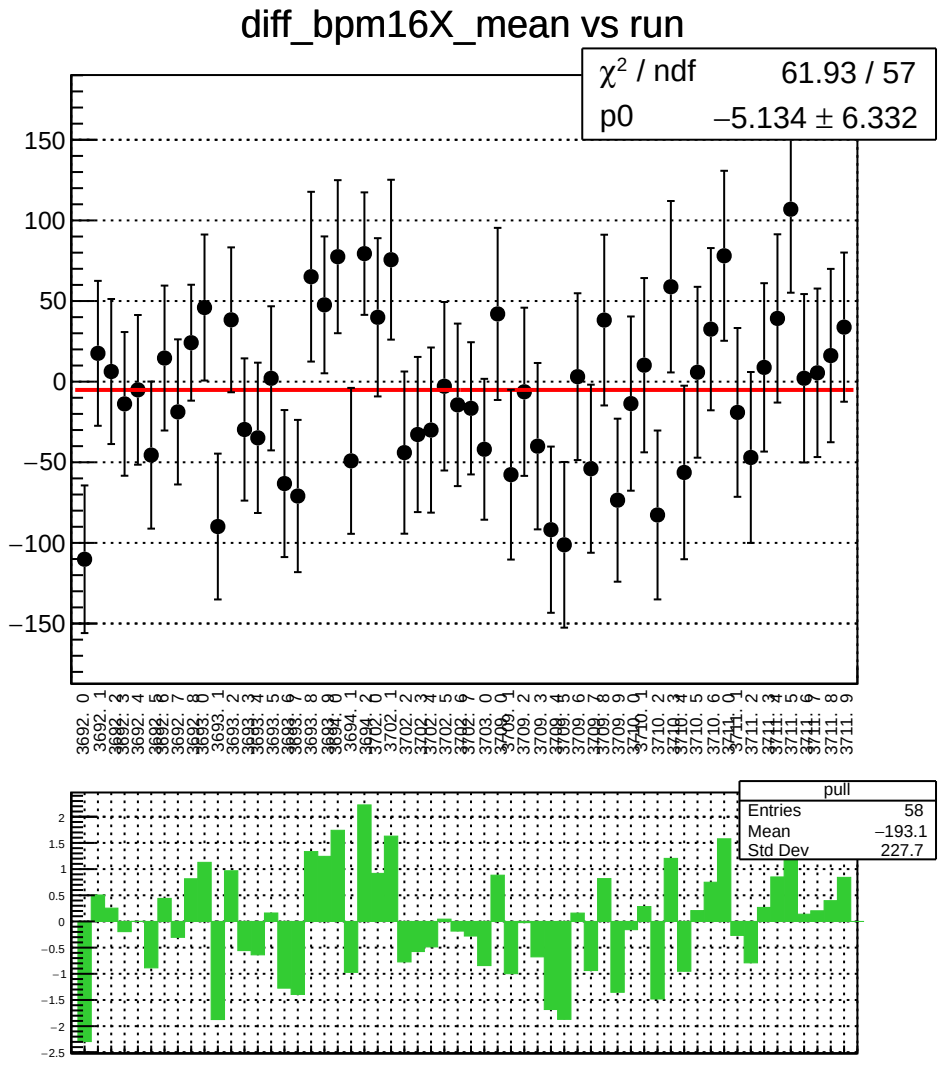

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

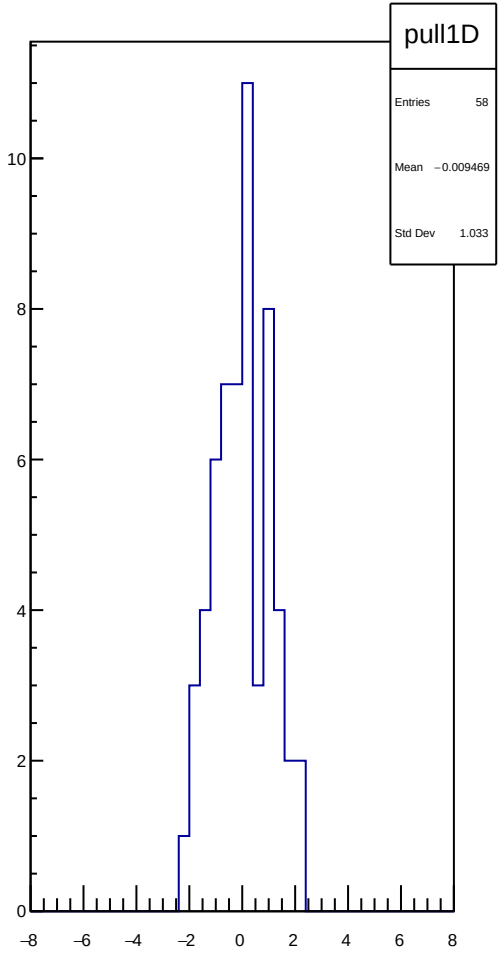

diff_bpm14X_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

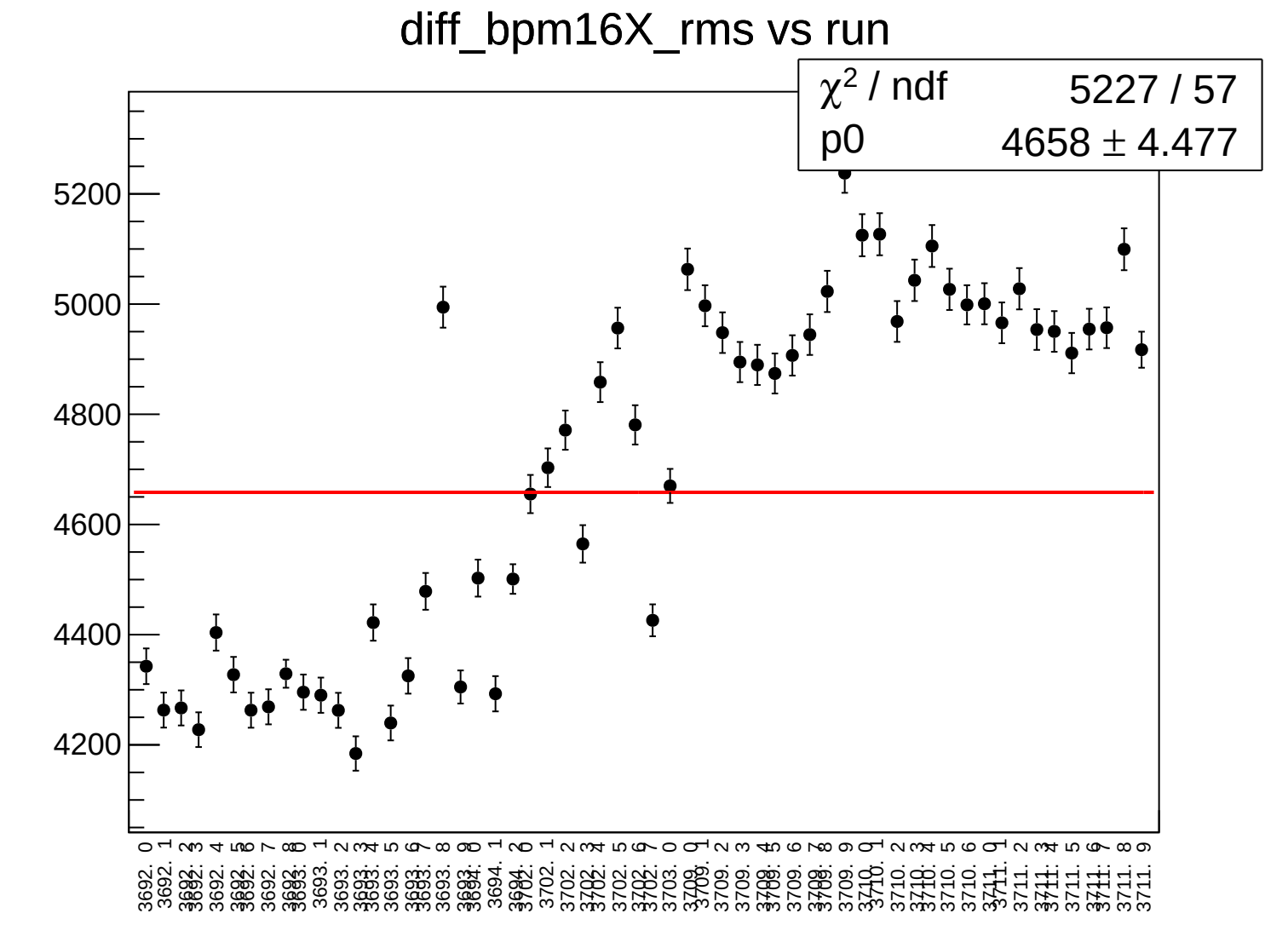

diff_bpm14Y_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

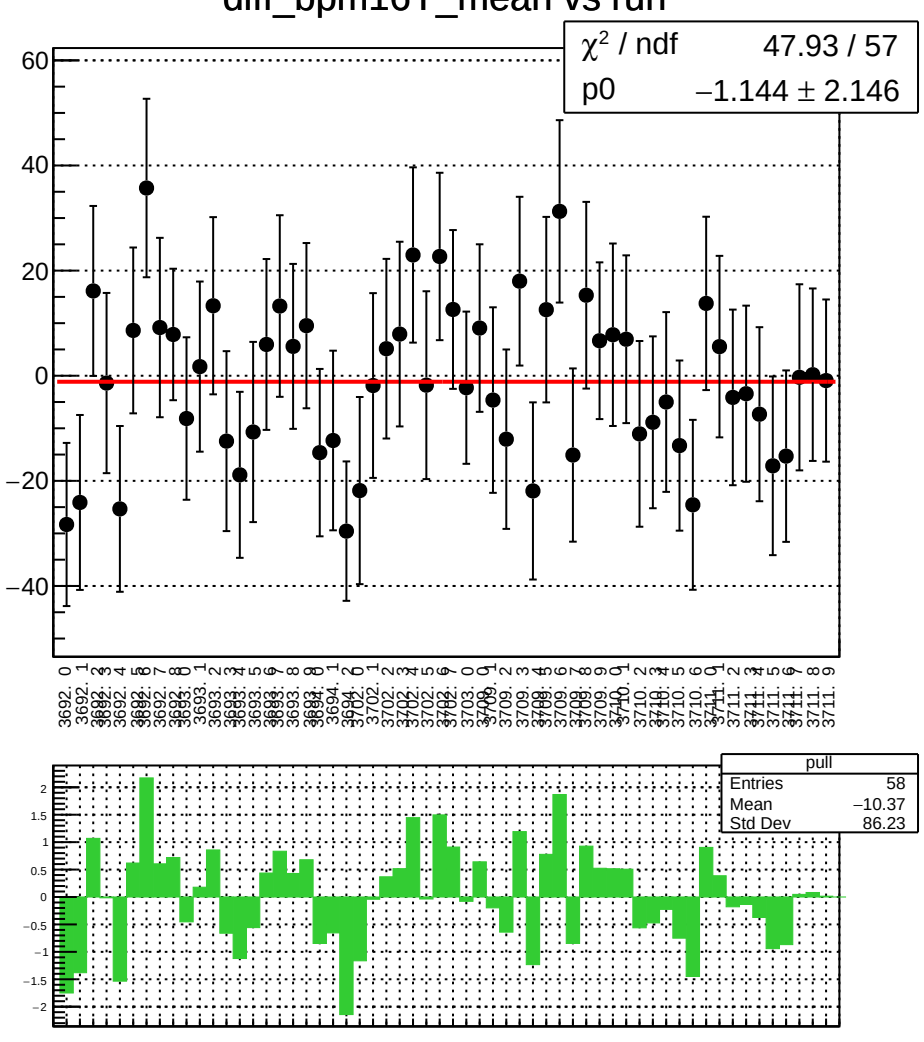

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

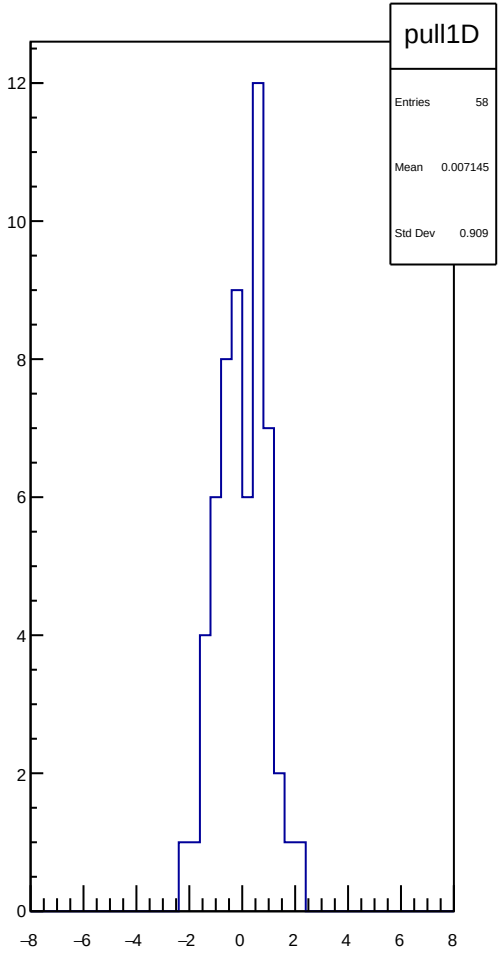

diff_bpm14Y_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0

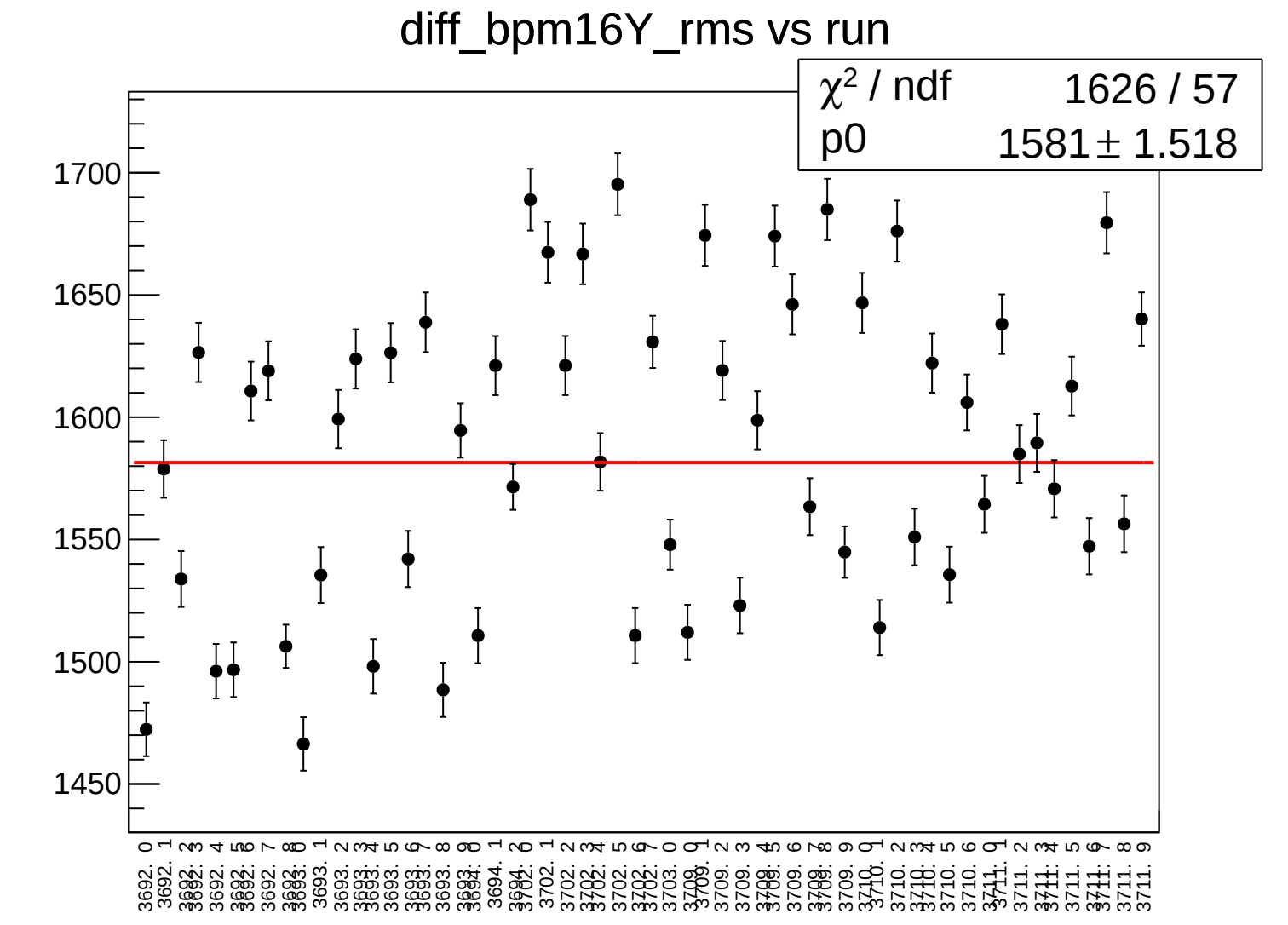

diff_bpm16X_mean vs run
χ² / ndf 61.93 / 57
p0 −5.134 ± 6.332
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −193.1
Std Dev 227.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

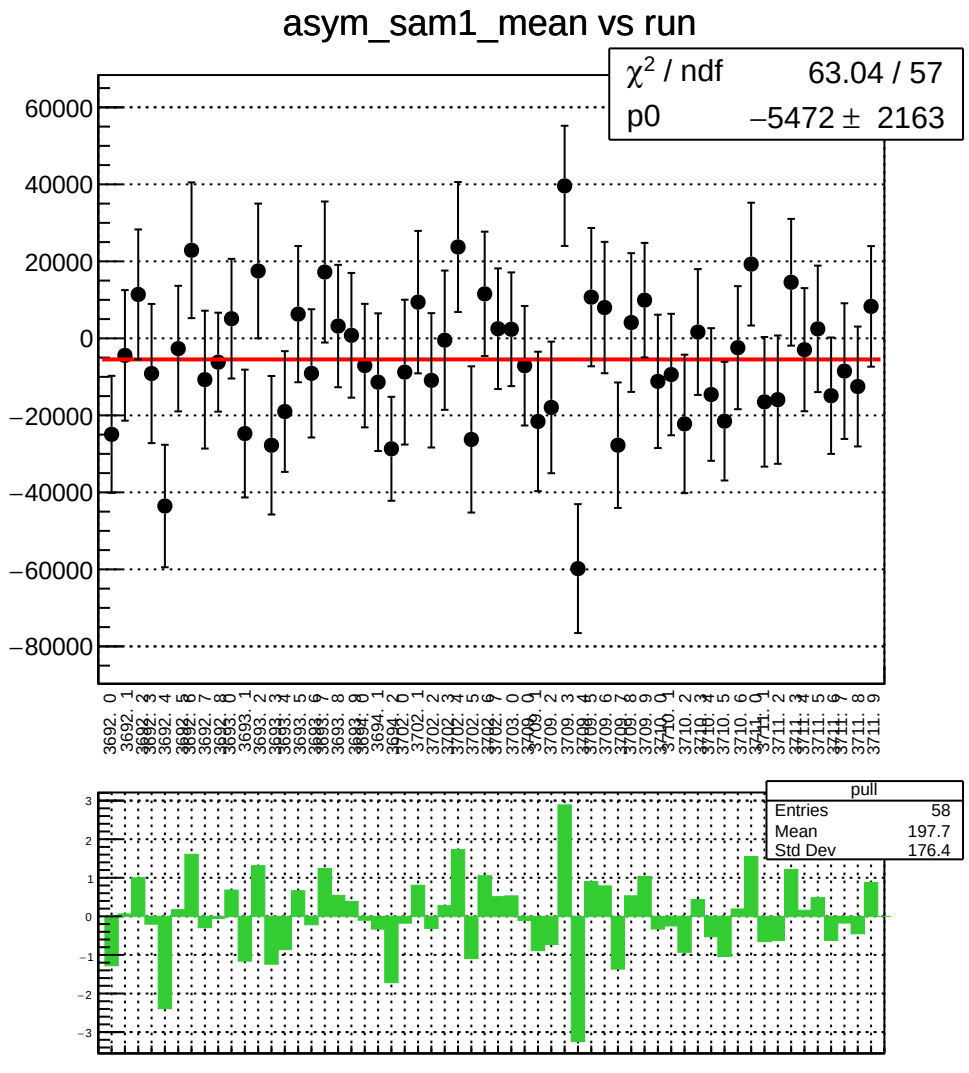

pull1D
Entries 58
Mean −0.009469
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

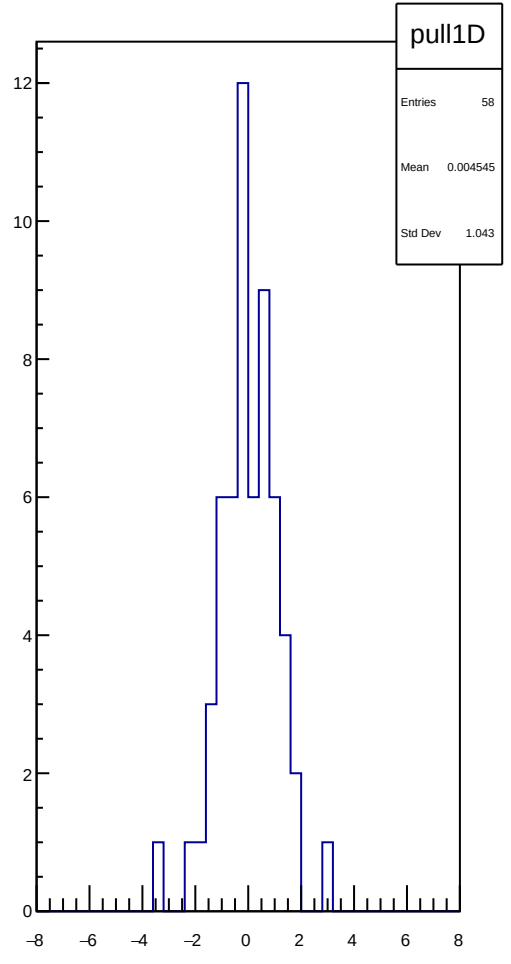

diff_bpm16X_rms vs run
χ² / ndf 5227 / 57
p0 4658 ± 4.477
5200
5000
4800
4600
4400
4200

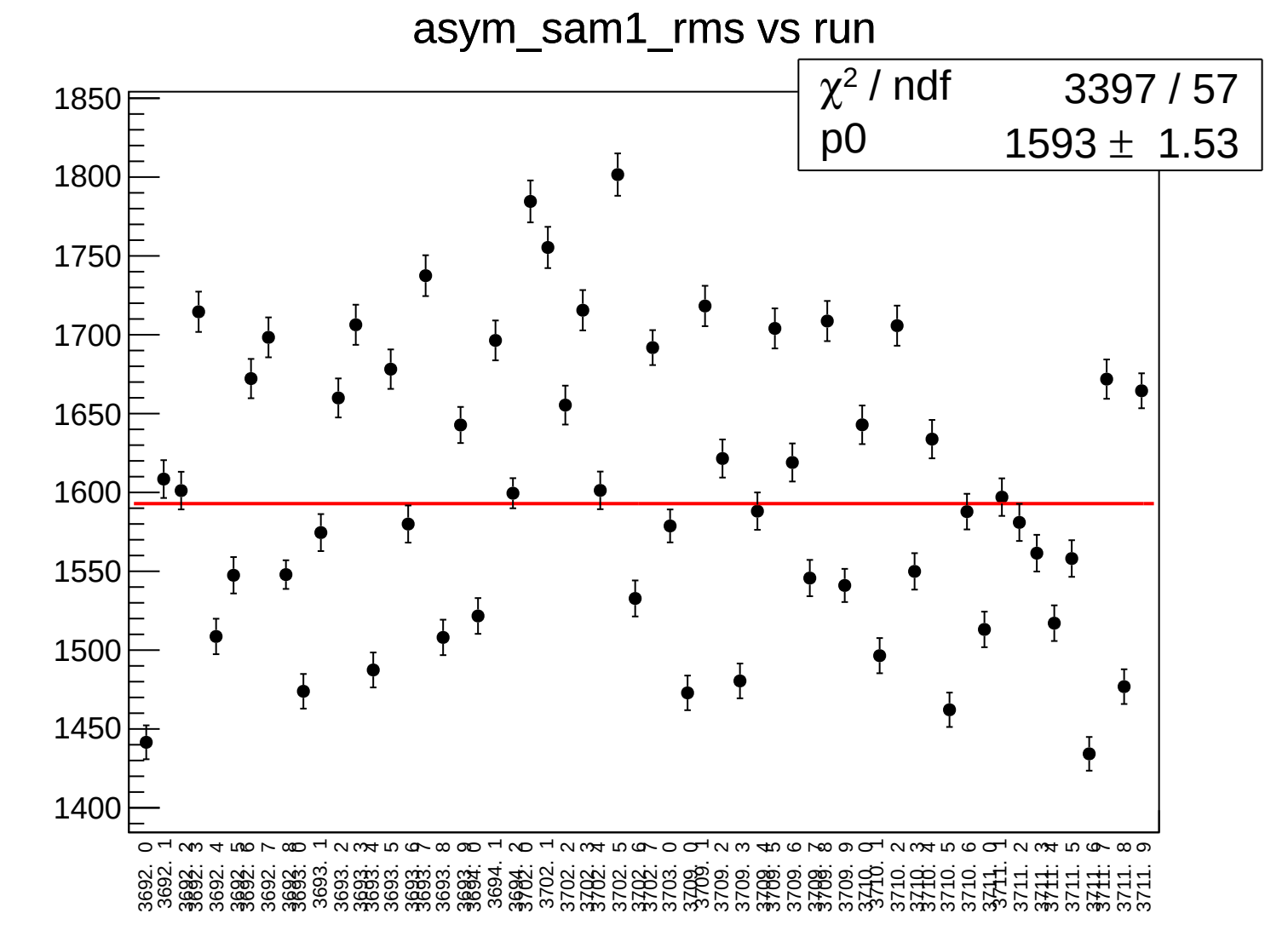

diff_bpm16Y_mean vs run
χ² / ndf 47.93 / 57
p0 −1.144 ± 2.146
pull
Entries 58
Mean −10.37
Std Dev 86.23

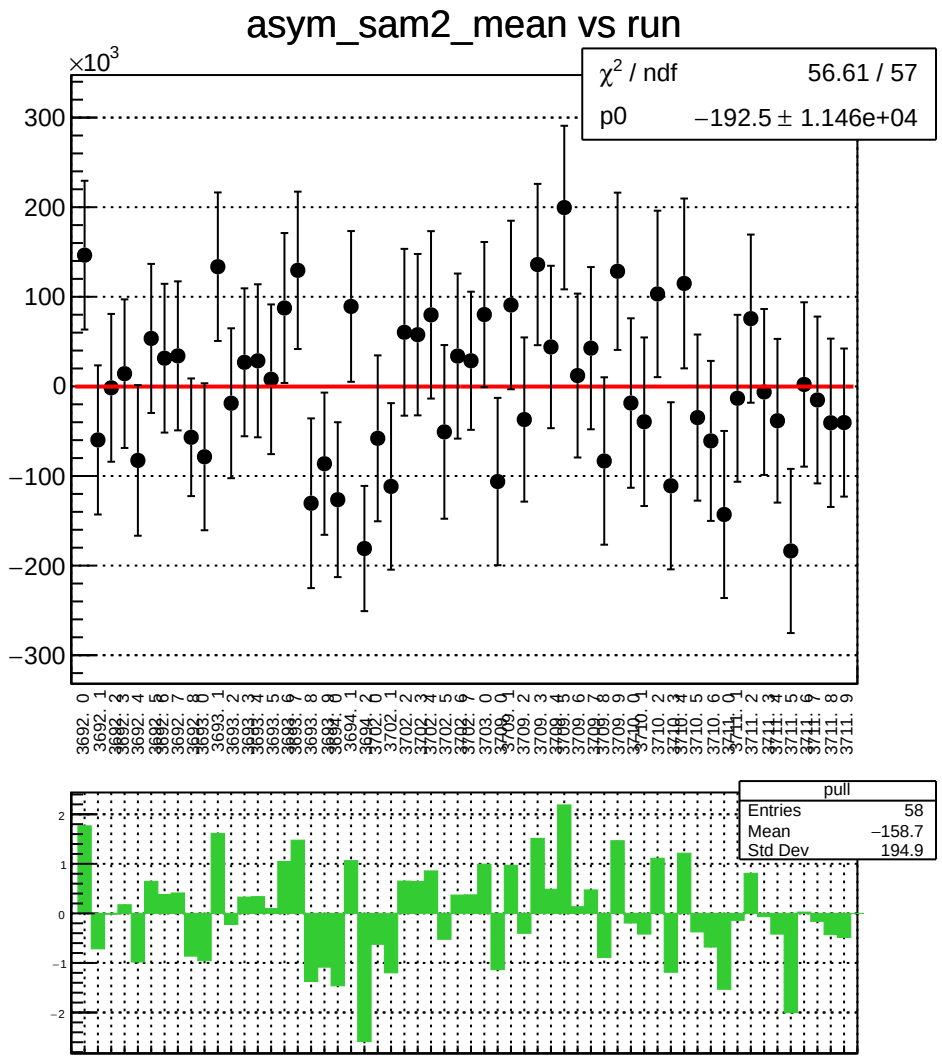

pull1D
Entries 58
Mean 0.007145
Std Dev 0.909

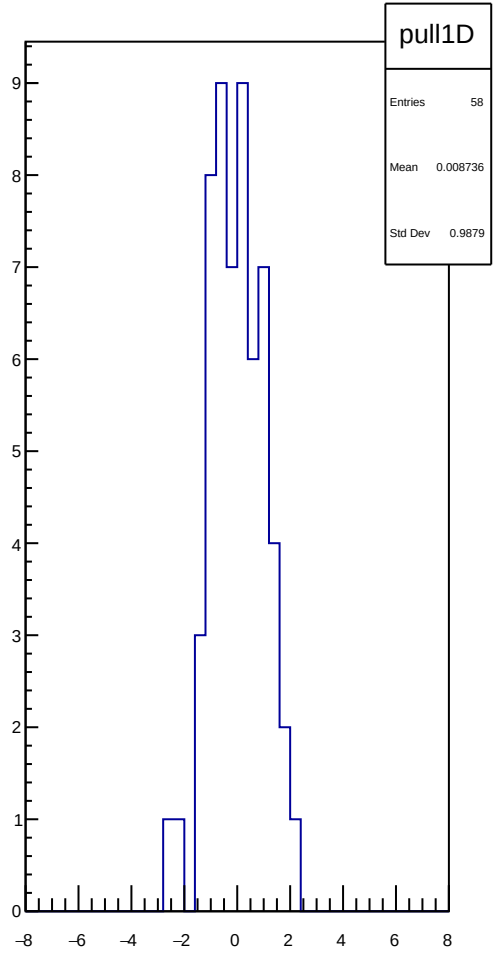

diff_bpm16Y_rms vs run
χ² / ndf 1626 / 57
p0 1581 ± 1.518
1700
1650
1600
1550
1500
1450

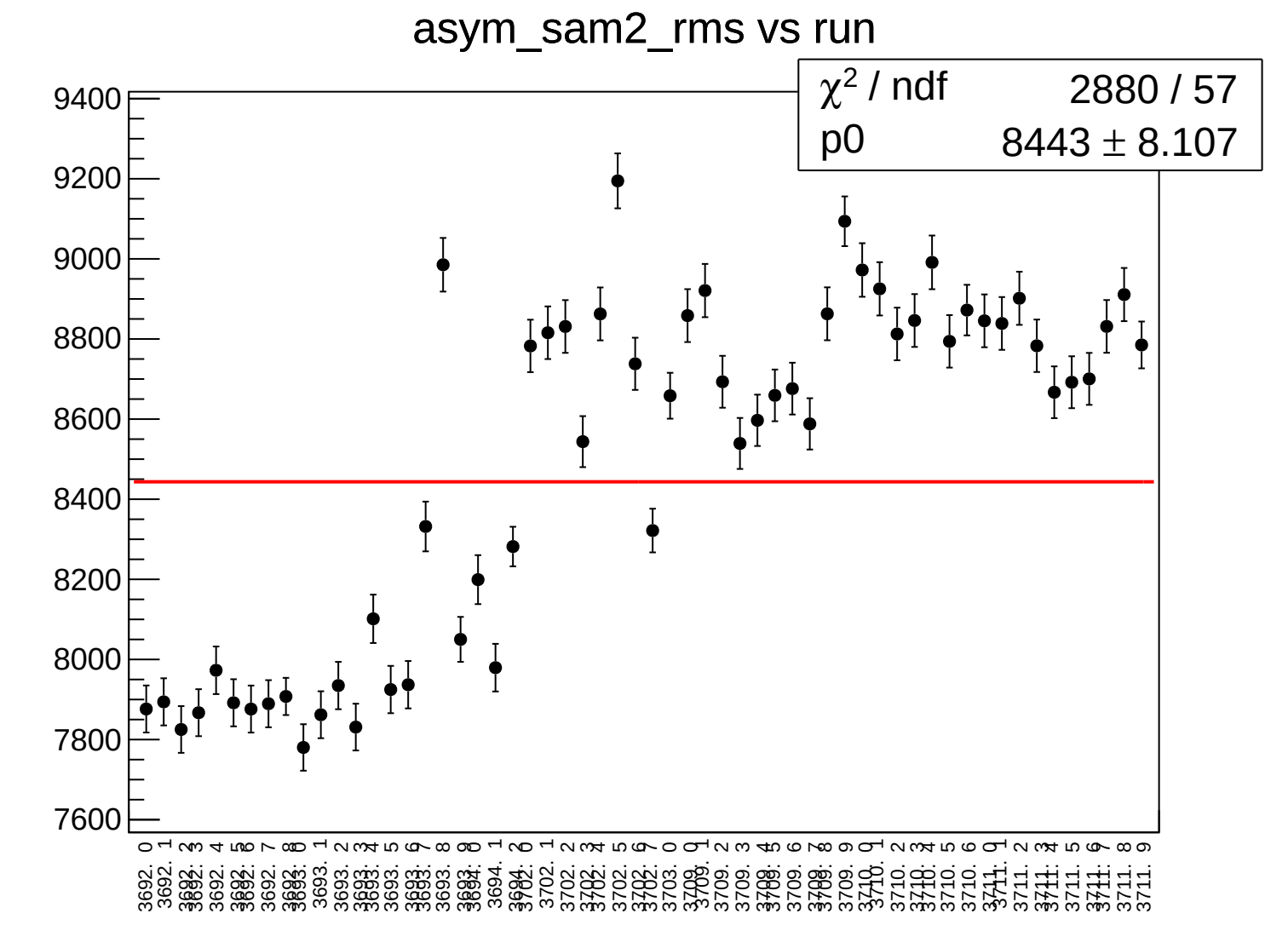

asym_sam1_mean vs run
χ² / ndf 63.04 / 57
p0 −5472 ± 2163
pull
Entries 58
Mean 197.7
Std Dev 176.4

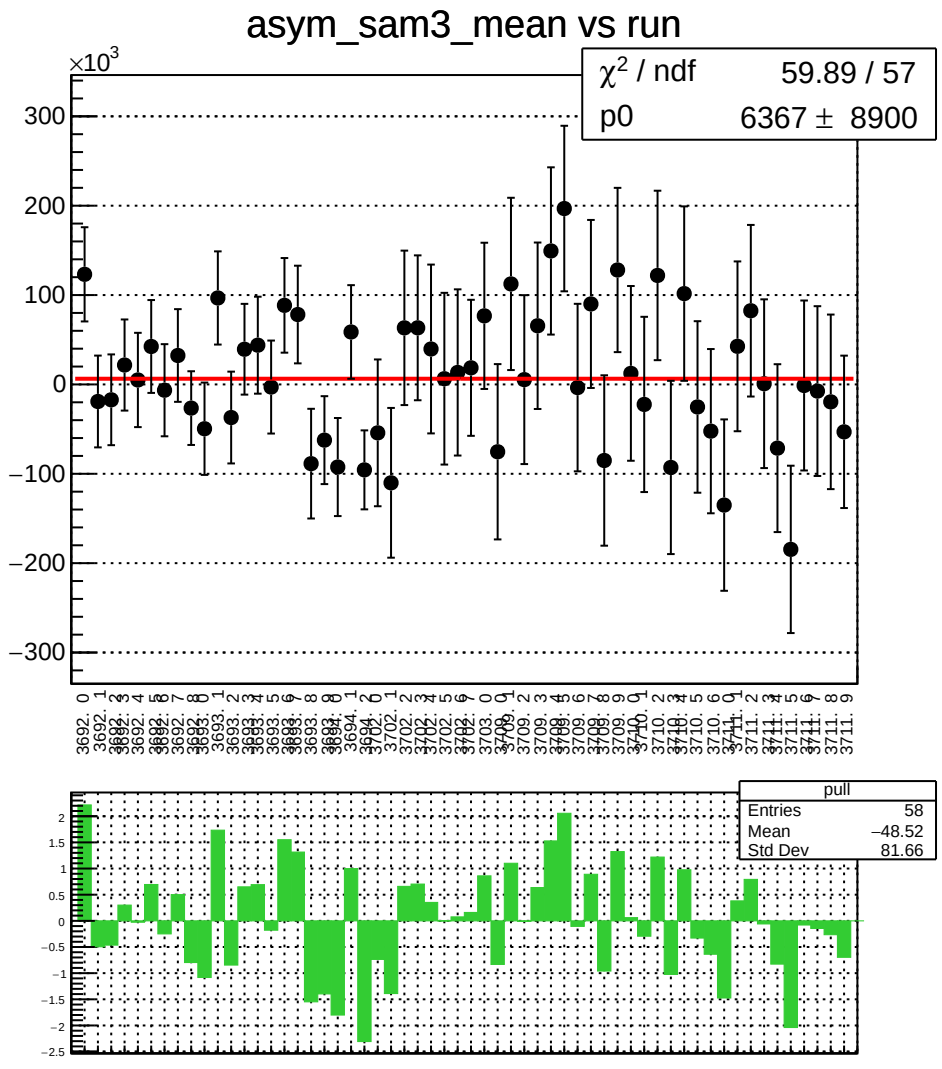

pull1D
Entries 58
Mean 0.004545
Std Dev 1.043

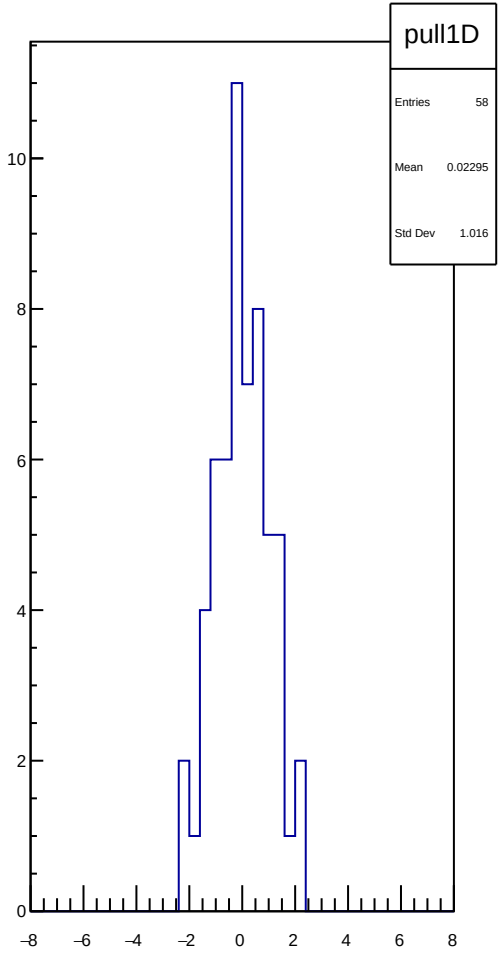

asym_sam1_rms vs run
χ² / ndf 3397 / 57
p0 1593 ± 1.53
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

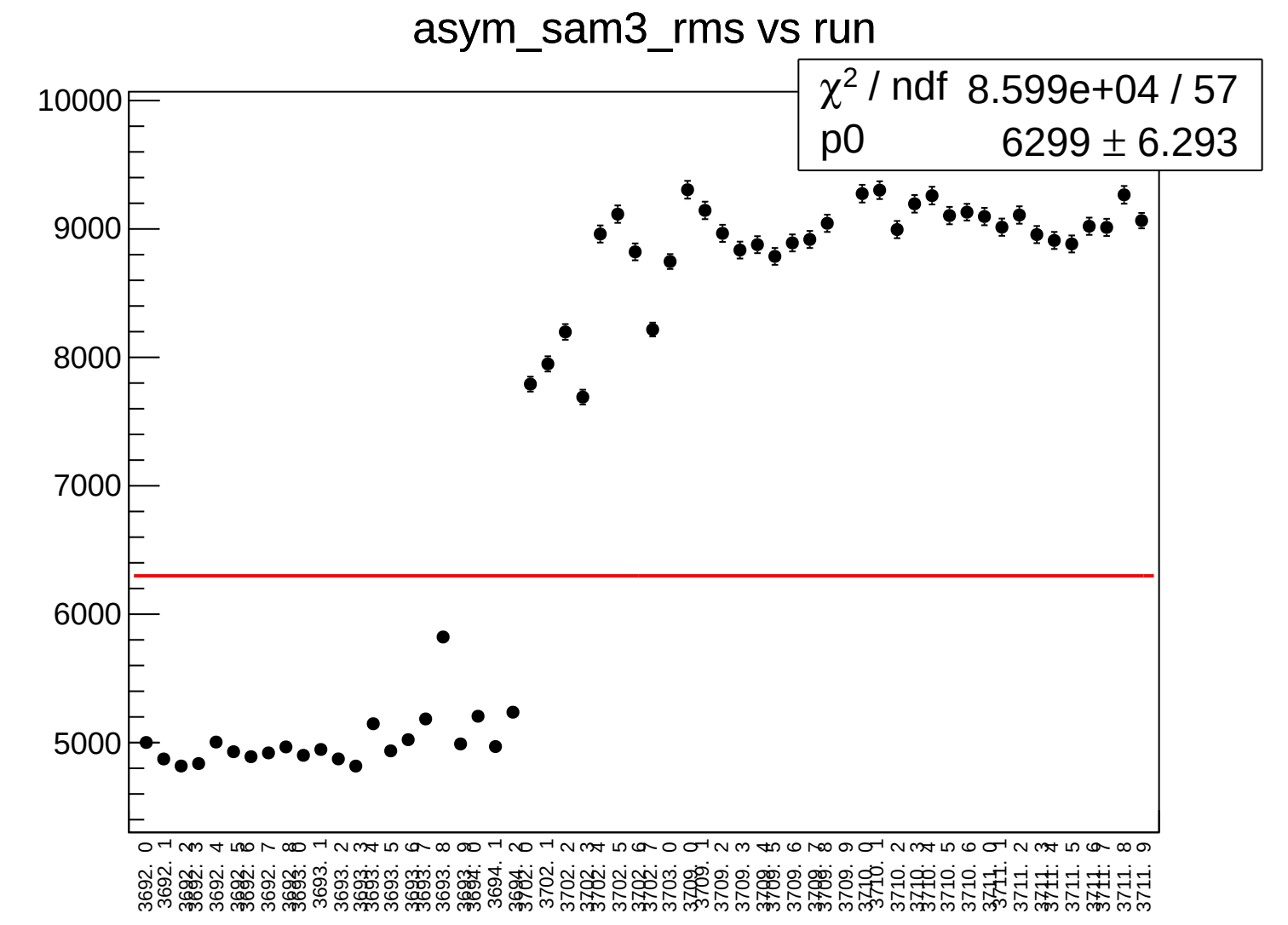

asym_sam2_mean vs run
×10^3
χ² / ndf 56.61 / 57
p0 −192.5 ± 1.146e+04
300
200
100
0
−100
−200
−300
pull
Entries 58
Mean −158.7
Std Dev 194.9
2
1
0
−1
−2

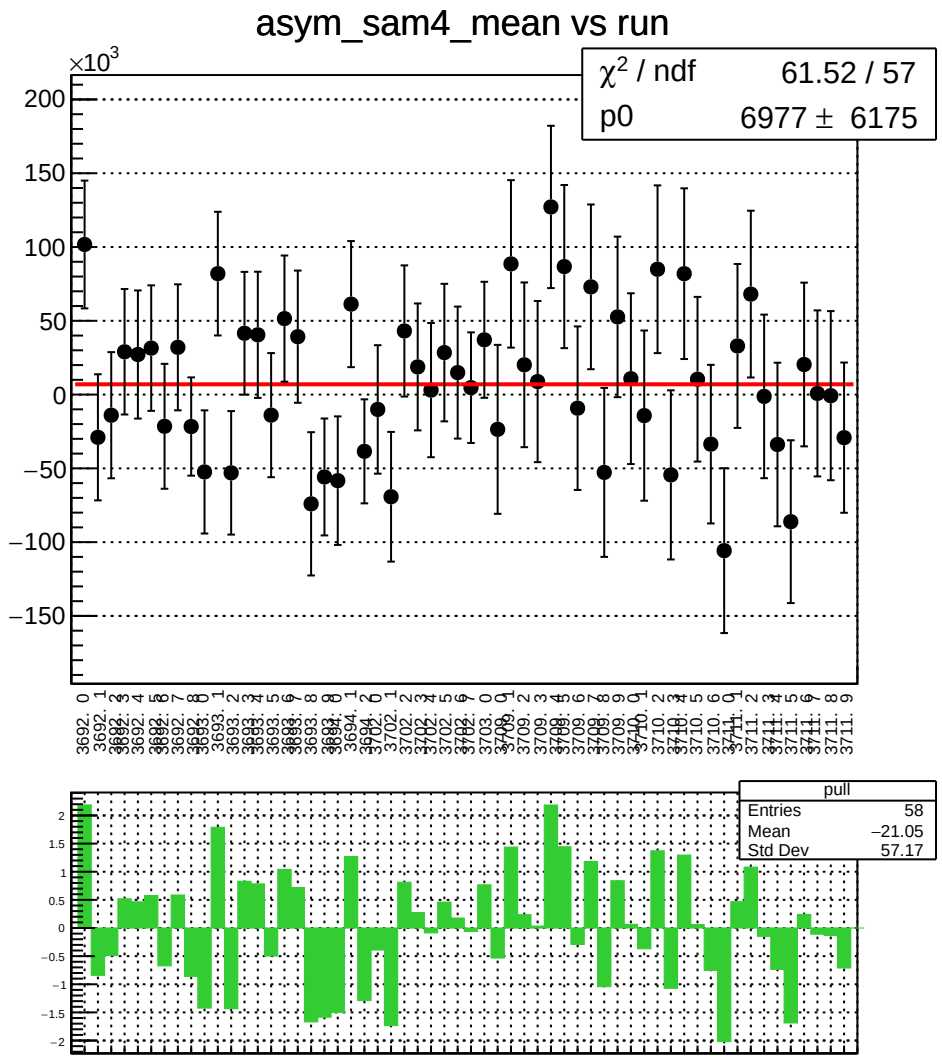

pull1D
Entries 58
Mean 0.008736
Std Dev 0.9879
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

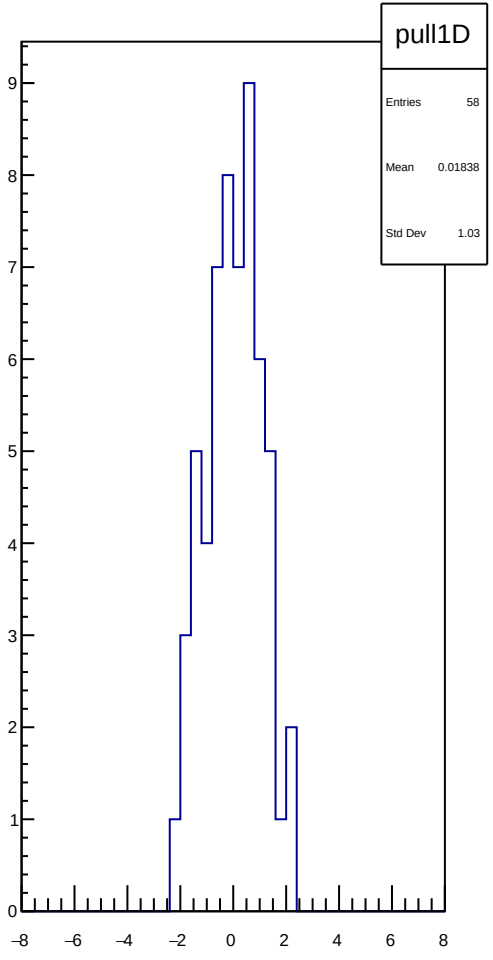

asym_sam2_rms vs run
χ² / ndf 2880 / 57
p0 8443 ± 8.107
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

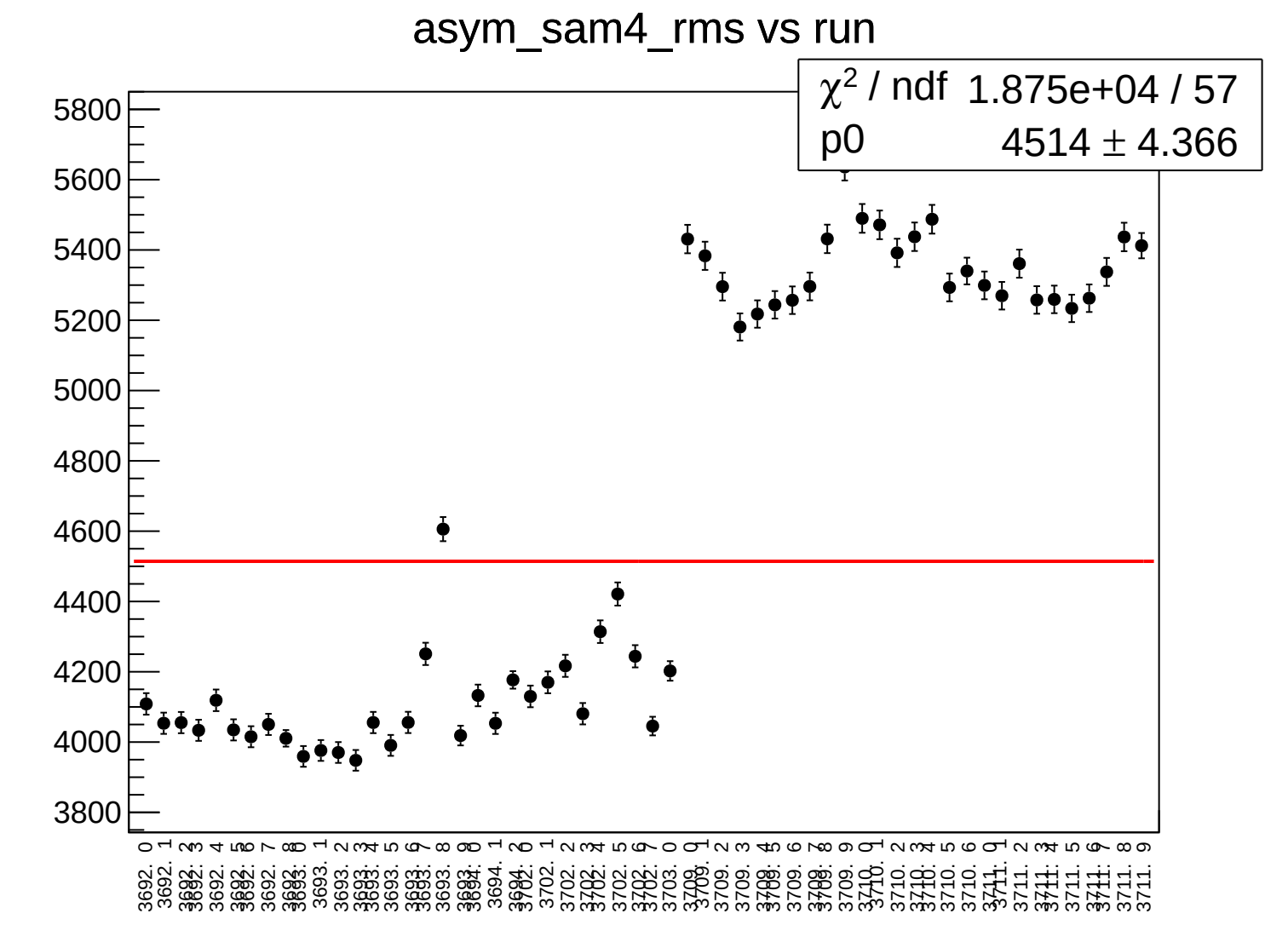

asym_sam3_mean vs run
×10^3
χ^2 / ndf 59.89 / 57
p0 6367 ± 8900
pull
Entries 58
Mean −48.52
Std Dev 81.66

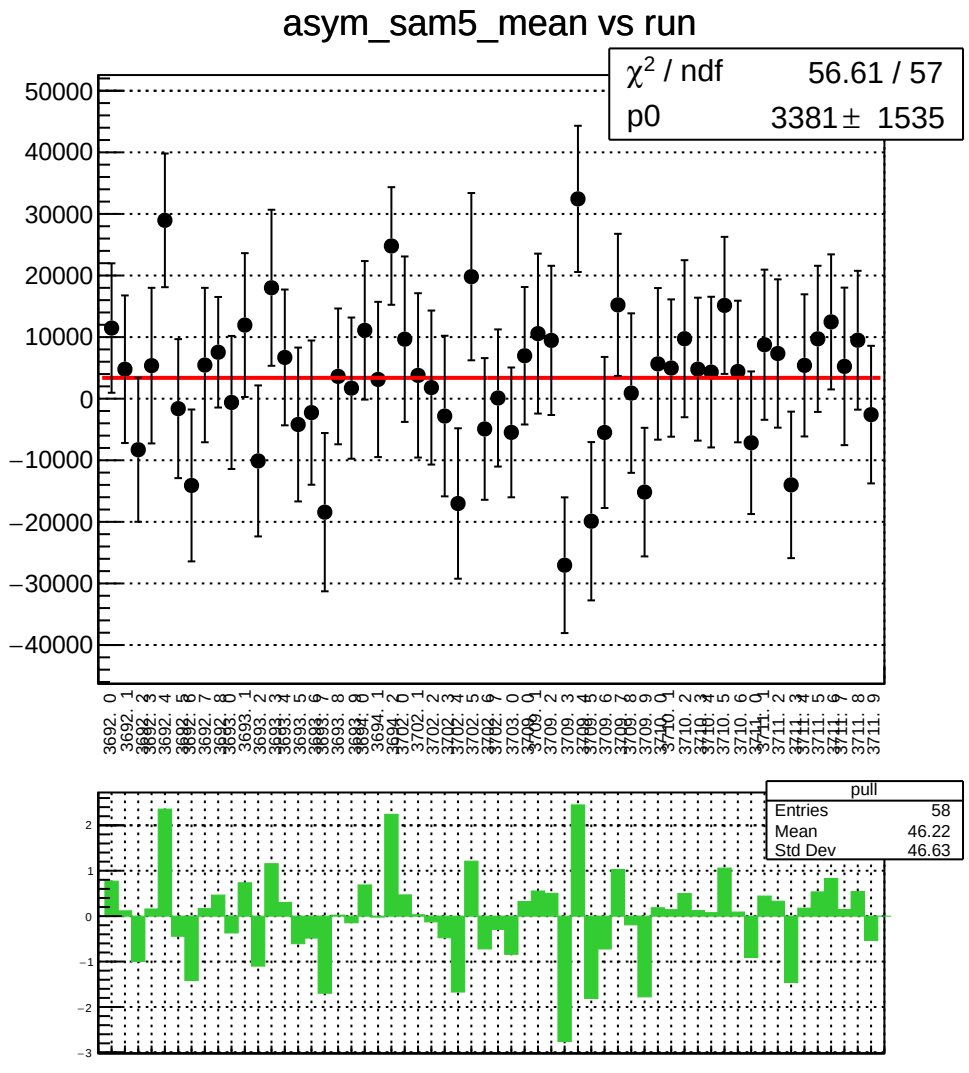

pull1D
Entries 58
Mean 0.02295
Std Dev 1.016

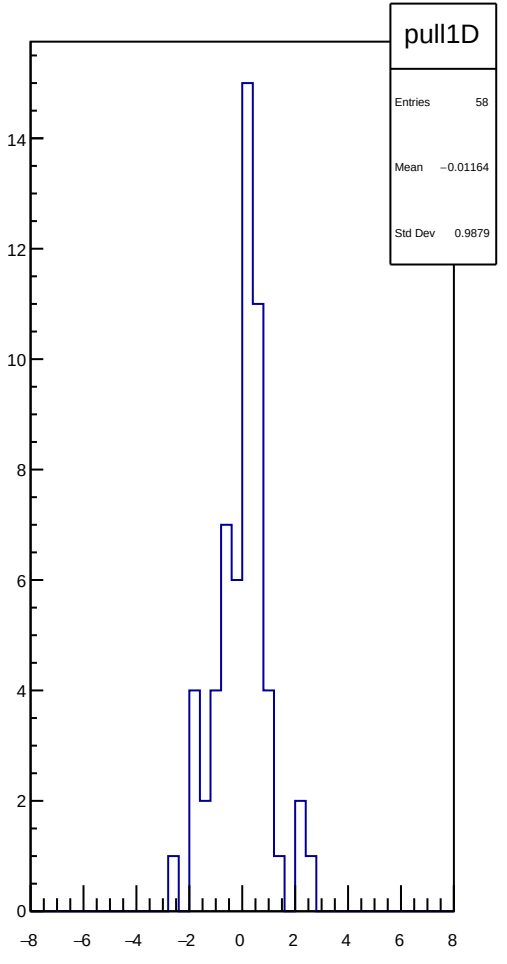

asym_sam3_rms vs run
χ² / ndf 8.599e+04 / 57
p0 6299 ± 6.293
10000
9000
8000
7000
6000
5000

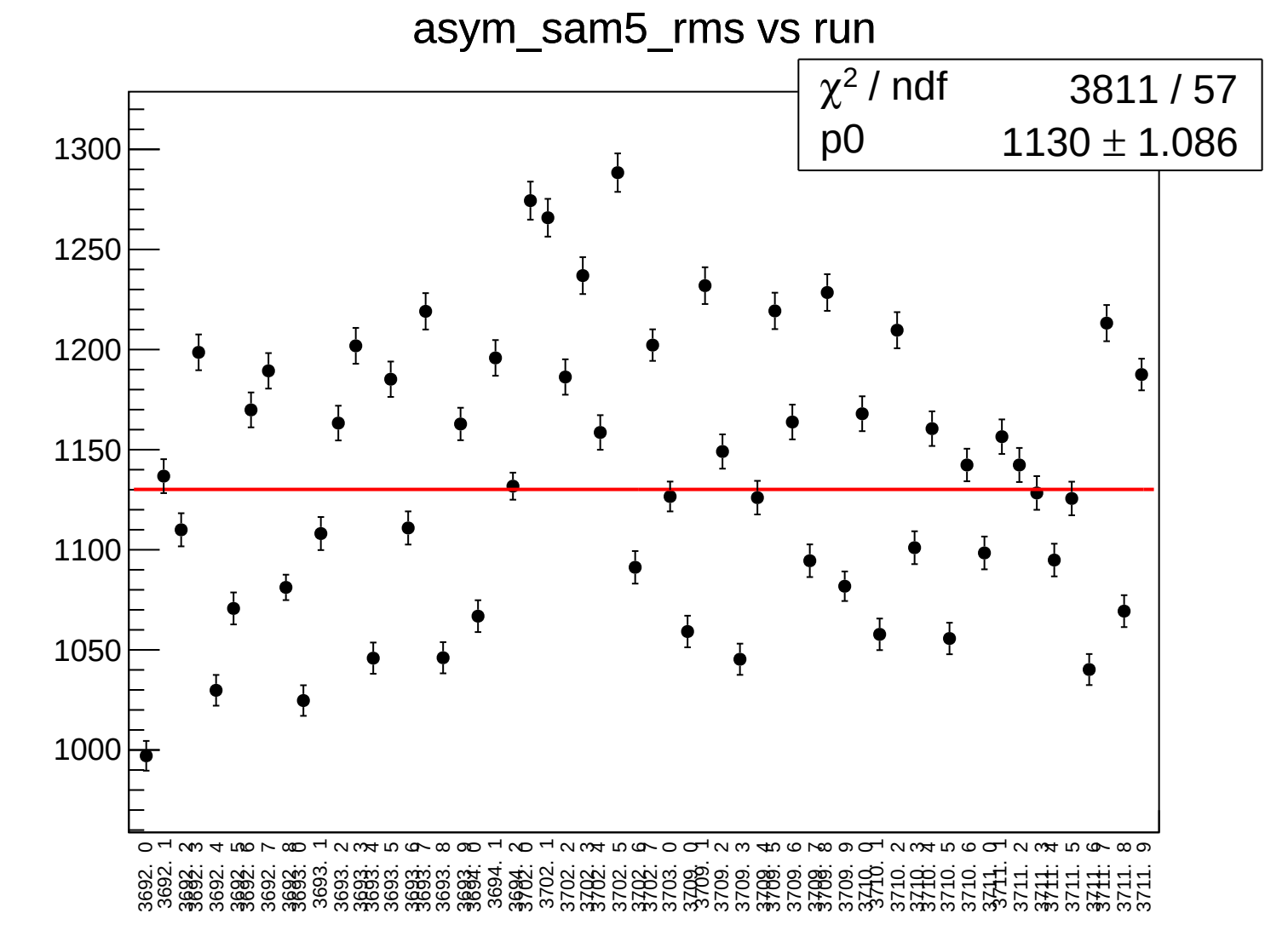

asym_sam4_mean vs run
×10^3
χ² / ndf 61.52 / 57
p0 6977 ± 6175
pull
Entries 58
Mean −21.05
Std Dev 57.17

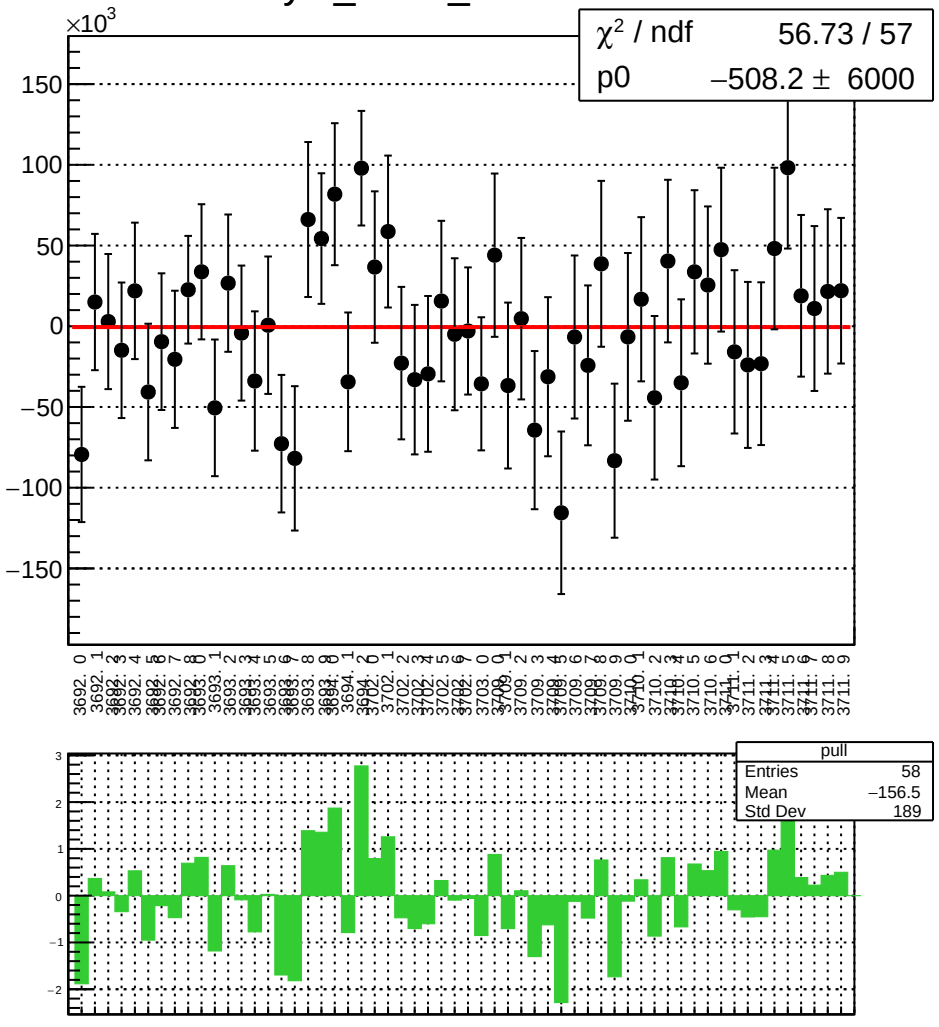

pull1D
Entries 58
Mean 0.01838
Std Dev 1.03

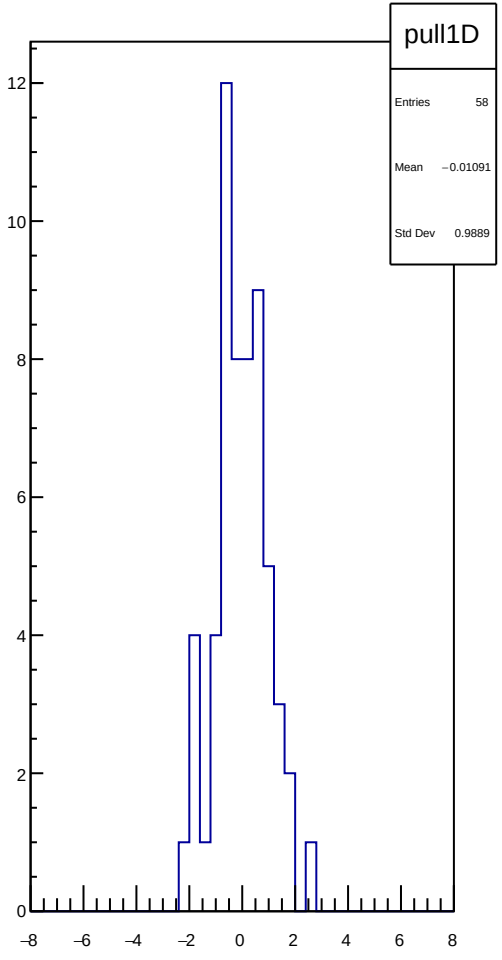

asym_sam4_rms vs run
χ² / ndf 1.875e+04 / 57
p0 4514 ± 4.366
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

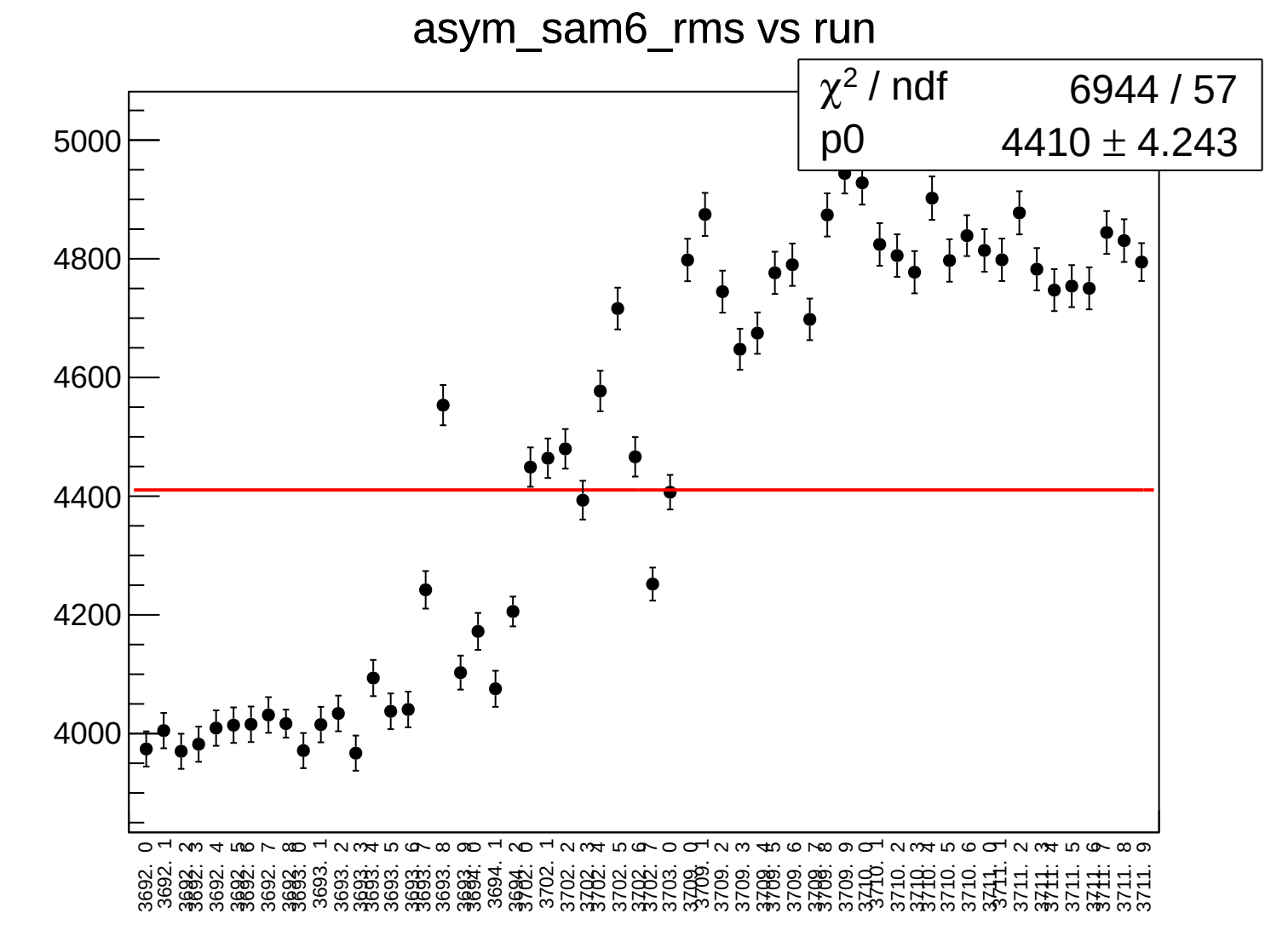

asym_sam5_mean vs run
χ² / ndf 56.61 / 57
p0 3381 ± 1535
pull
Entries 58
Mean 46.22
Std Dev 46.63

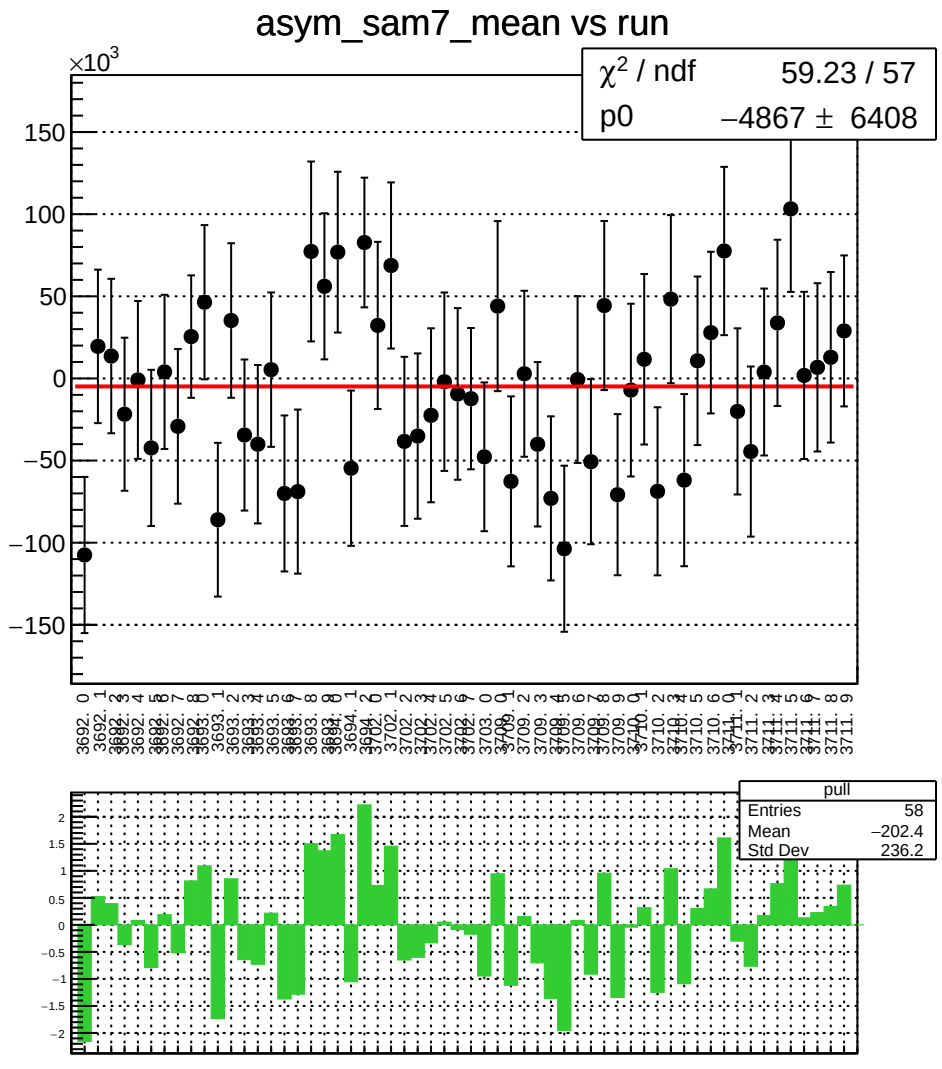

pull1D
Entries 58
Mean −0.01164
Std Dev 0.9879

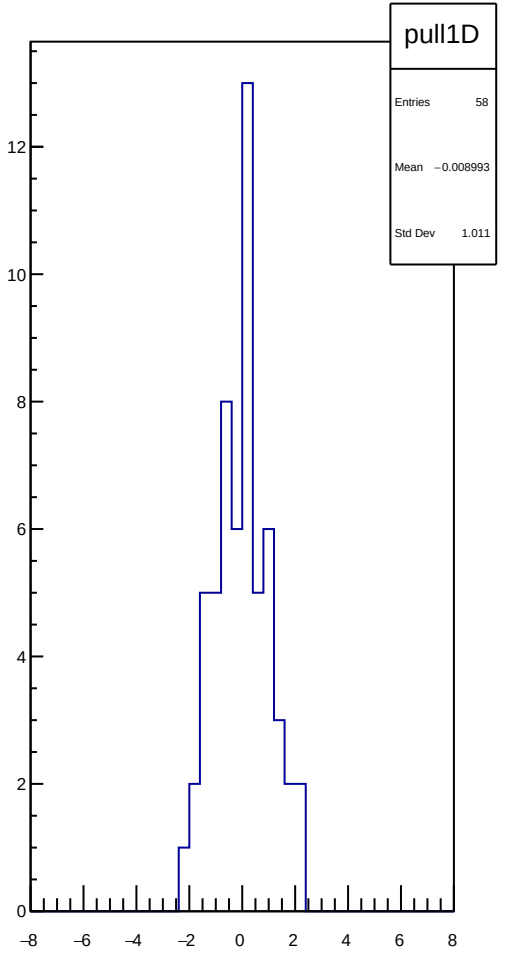

asym_sam5_rms vs run
χ² / ndf 3811 / 57
p0 1130 ± 1.086
1300
1250
1200
1150
1100
1050
1000

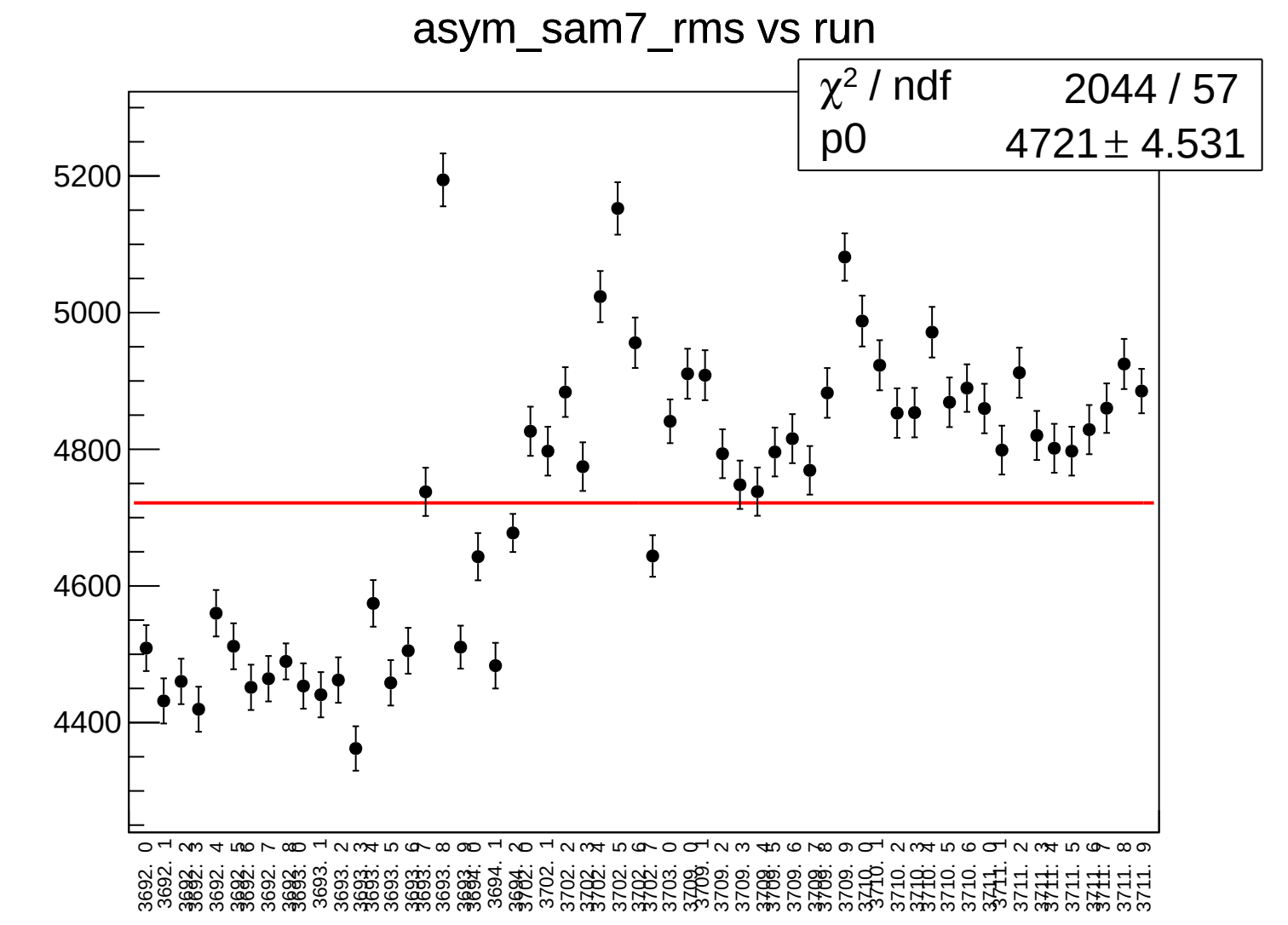

asym_sam6_mean vs run
×10^3
χ² / ndf 56.73 / 57
p0 −508.2 ± 6000
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −156.5
Std Dev 189
3
2
1
0
−1
−2

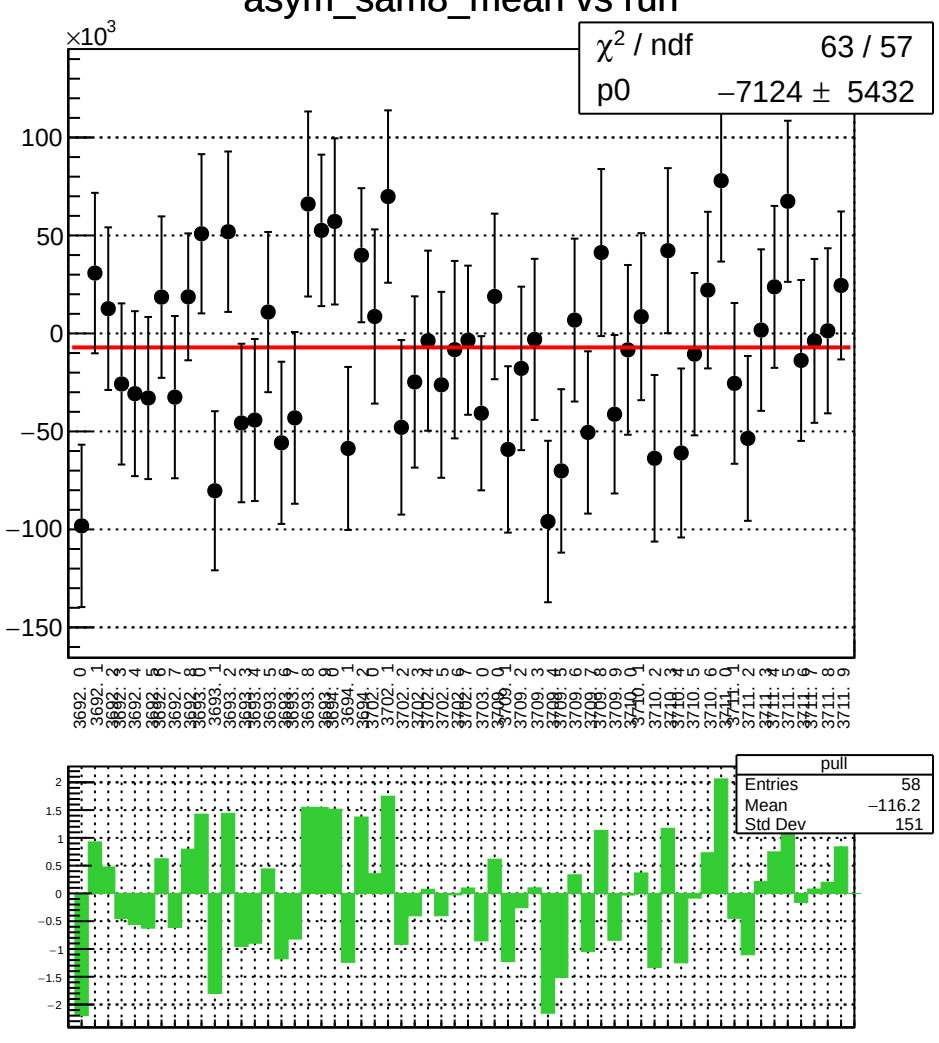

pull1D
Entries 58
Mean −0.01091
Std Dev 0.9889
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

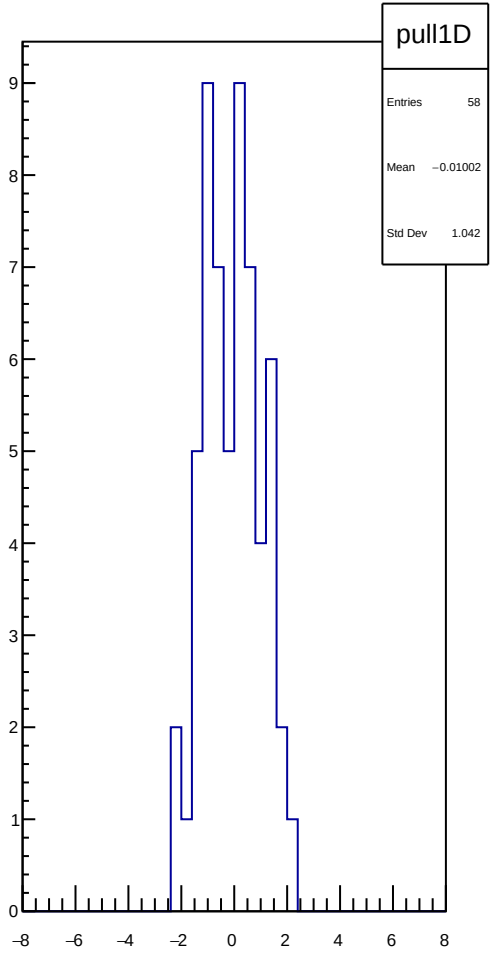

asym_sam6_rms vs run
χ^2 / ndf 6944 / 57
p0 4410 ± 4.243
5000
4800
4600
4400
4200
4000

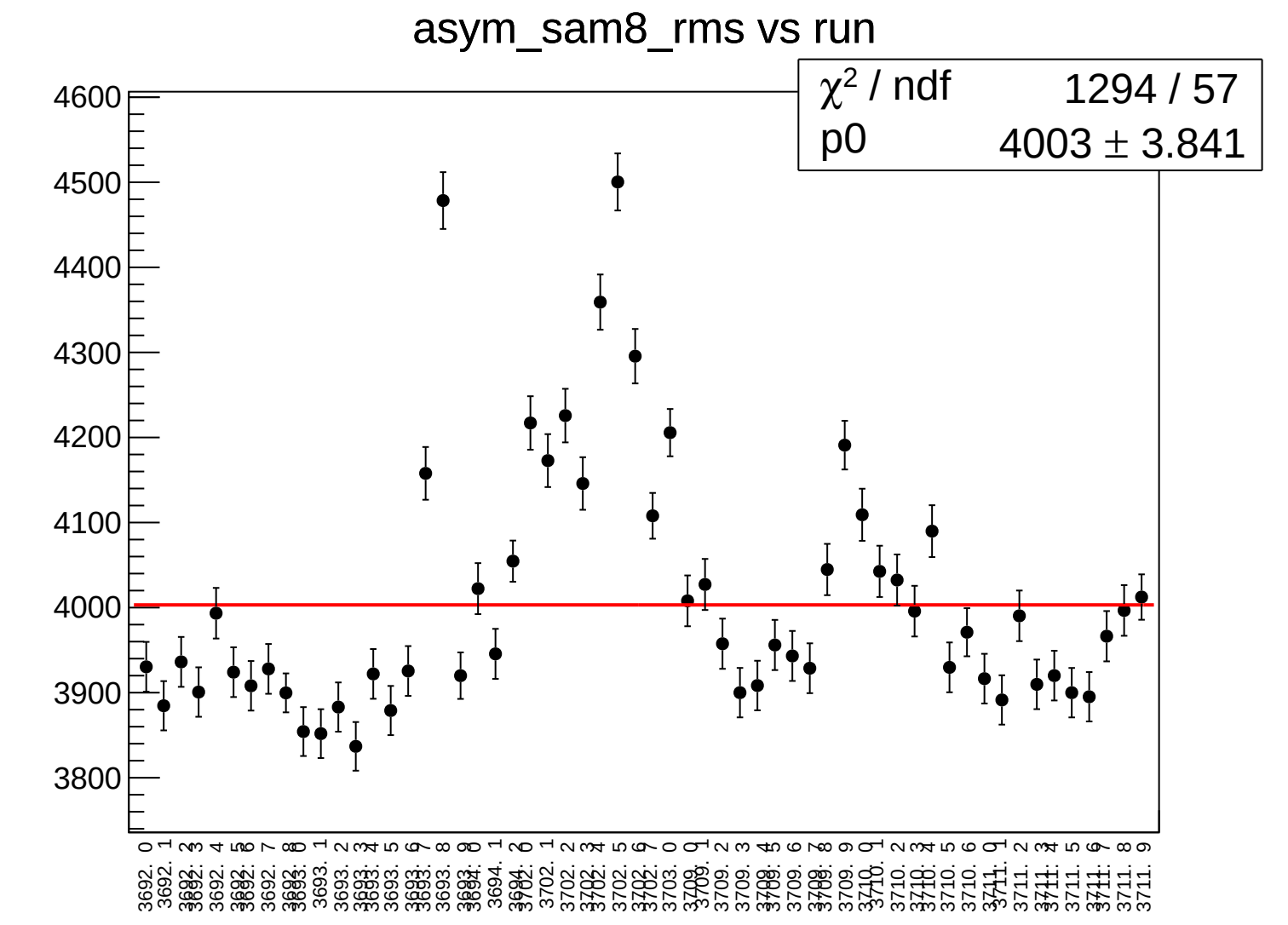

asym_sam7_mean vs run
χ^2 / ndf 59.23 / 57
p0 −4867 ± 6408
×10^3
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −202.4
Std Dev 236.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

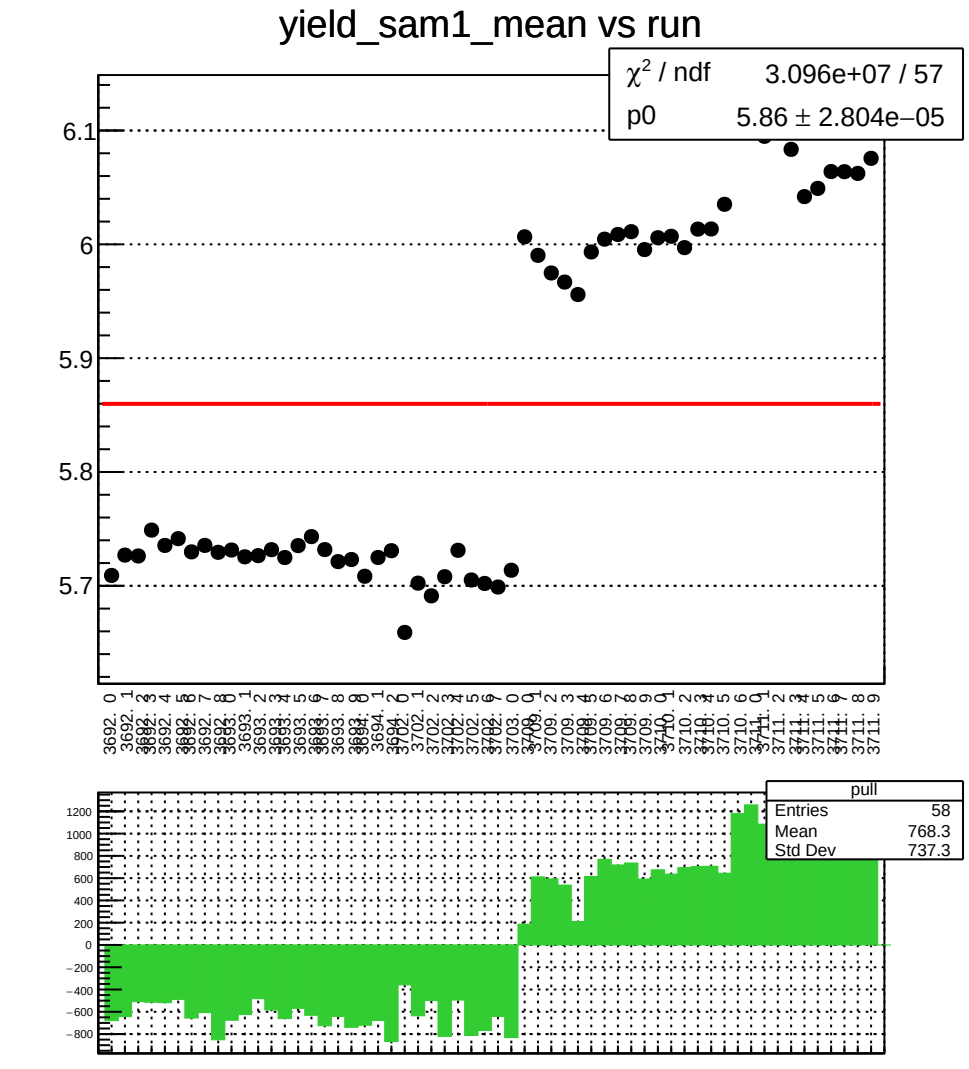

pull1D
Entries 58
Mean −0.008993
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

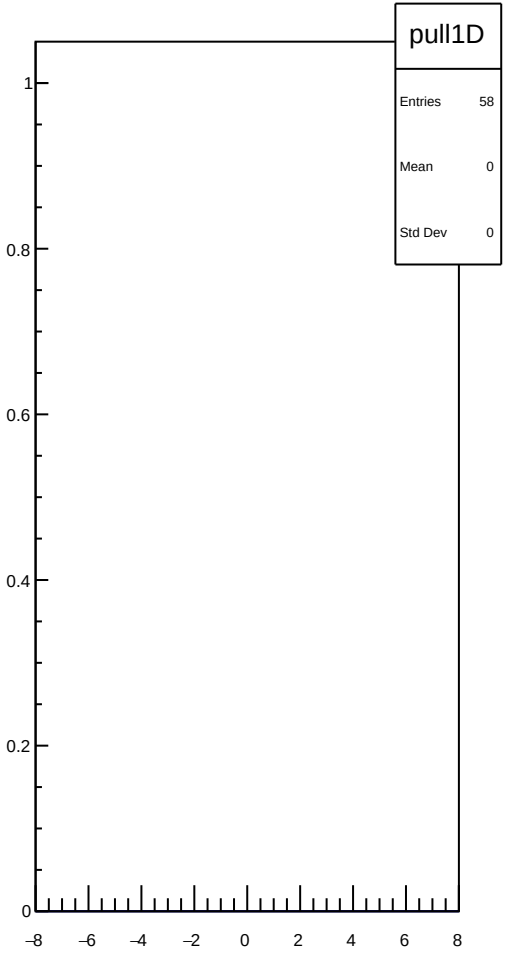

asym_sam7_rms vs run
χ² / ndf 2044 / 57
p0 4721 ± 4.531
5200
5000
4800
4600
4400

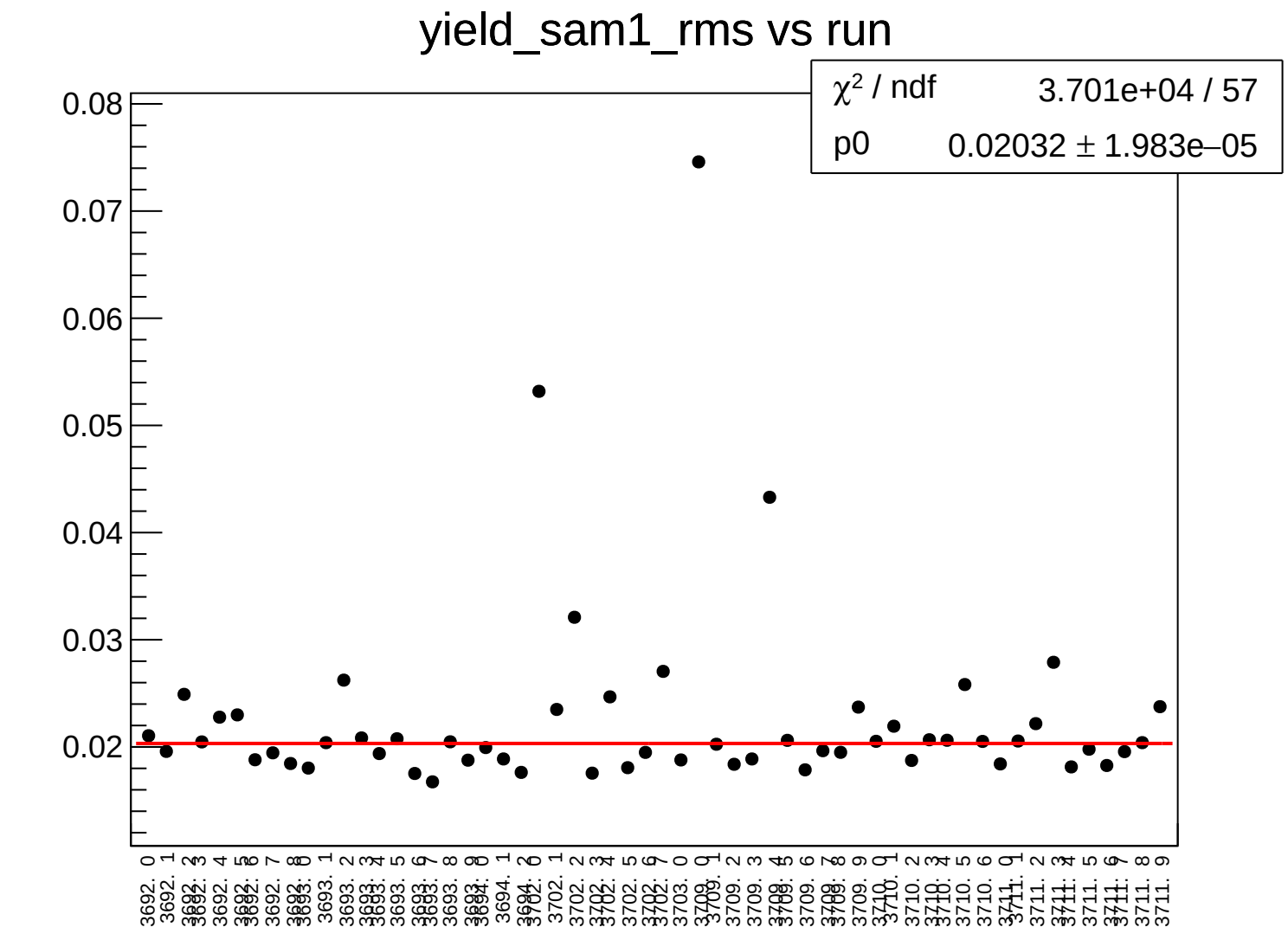

asym_sam8_mean vs run
×10^3
χ² / ndf 63 / 57
p0 −7124 ± 5432
100
50
0
−50
−100
−150
pull
Entries 58
Mean −116.2
Std Dev 151
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

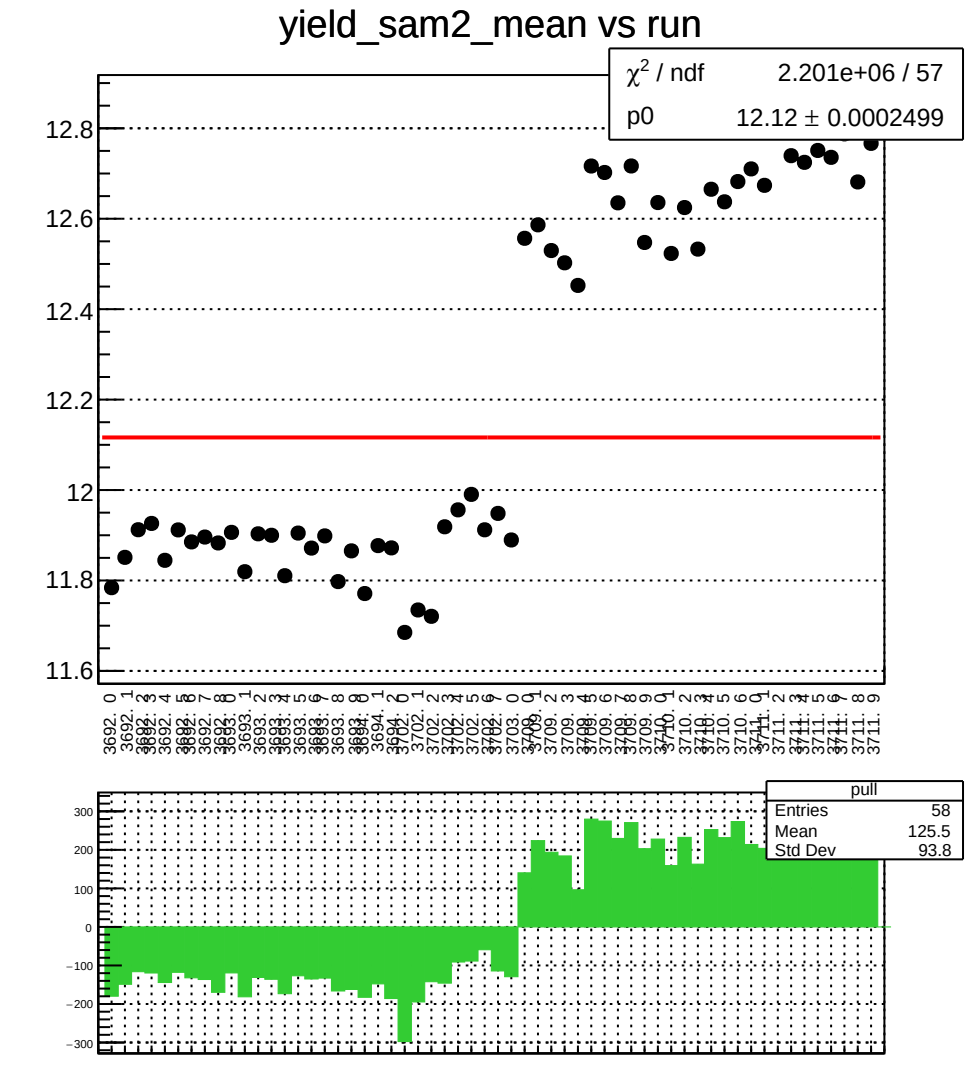

pull1D
Entries 58
Mean −0.01002
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

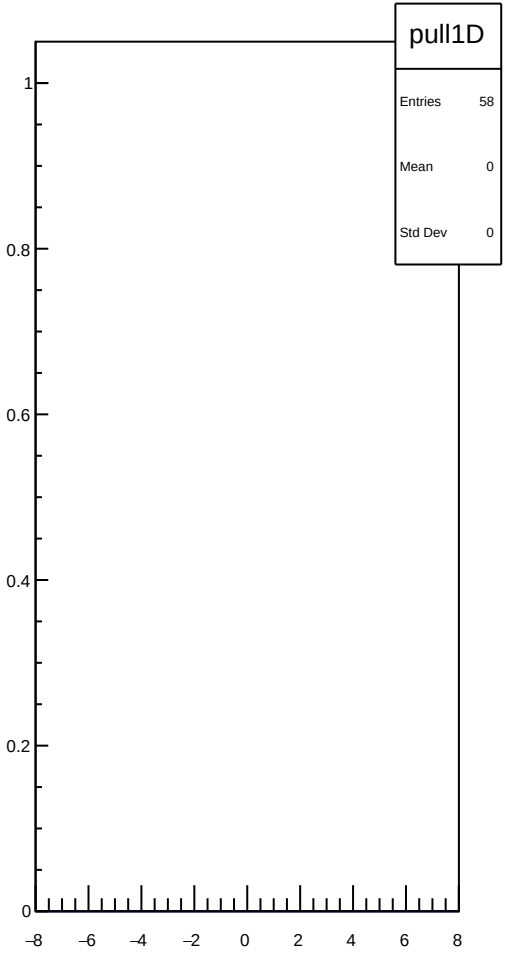

asym_sam8_rms vs run
χ² / ndf 1294 / 57
p0 4003 ± 3.841
4600
4500
4400
4300
4200
4100
4000
3900
3800

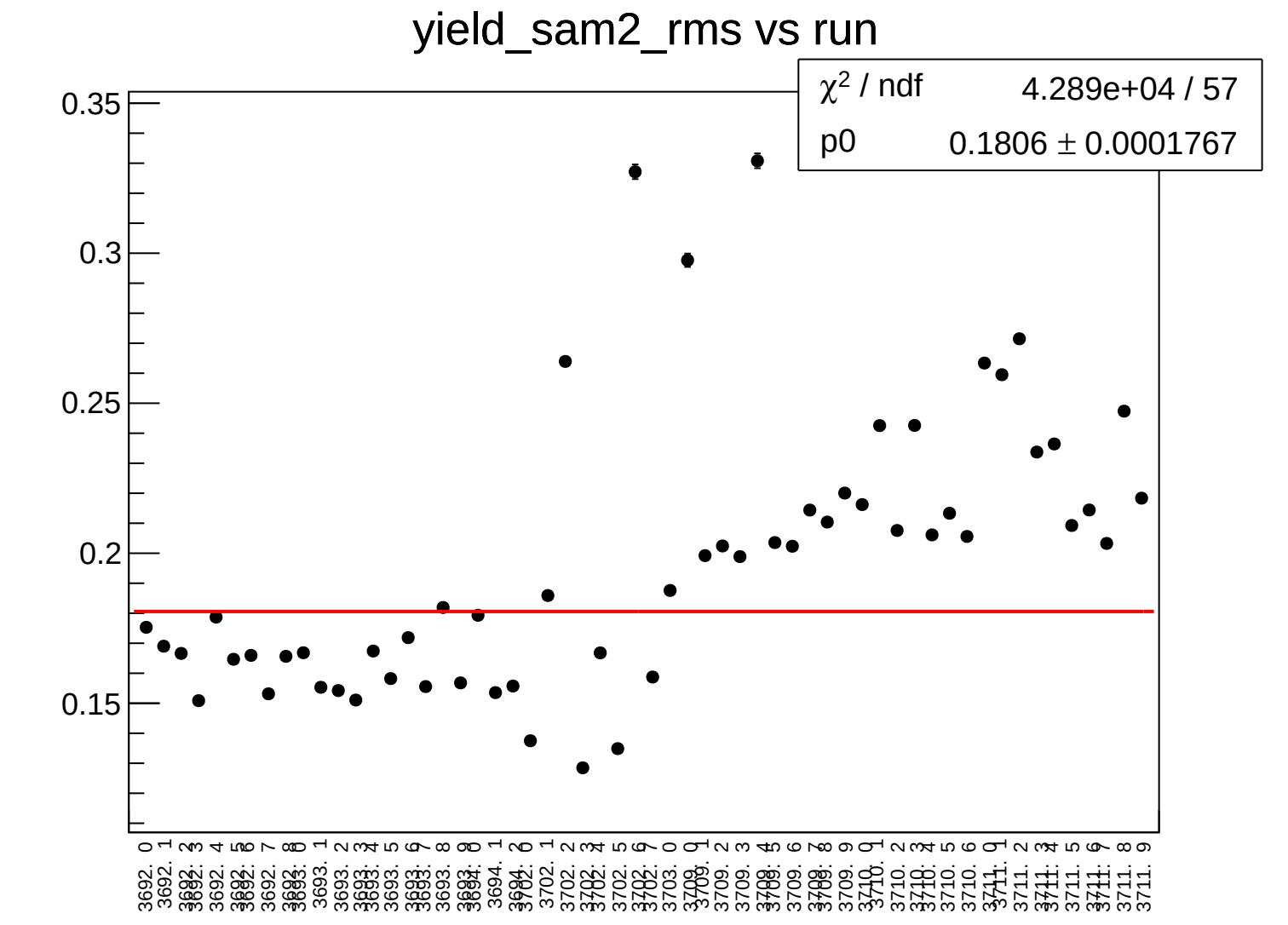

yield_sam1_mean vs run
χ² / ndf 3.096e+07 / 57
p0 5.86 ± 2.804e−05
6.1
6
5.9
5.8
5.7
pull
Entries 58
Mean 768.3
Std Dev 737.3
1200
1000
800
600
400
200
0
−200
−400
−600
−800

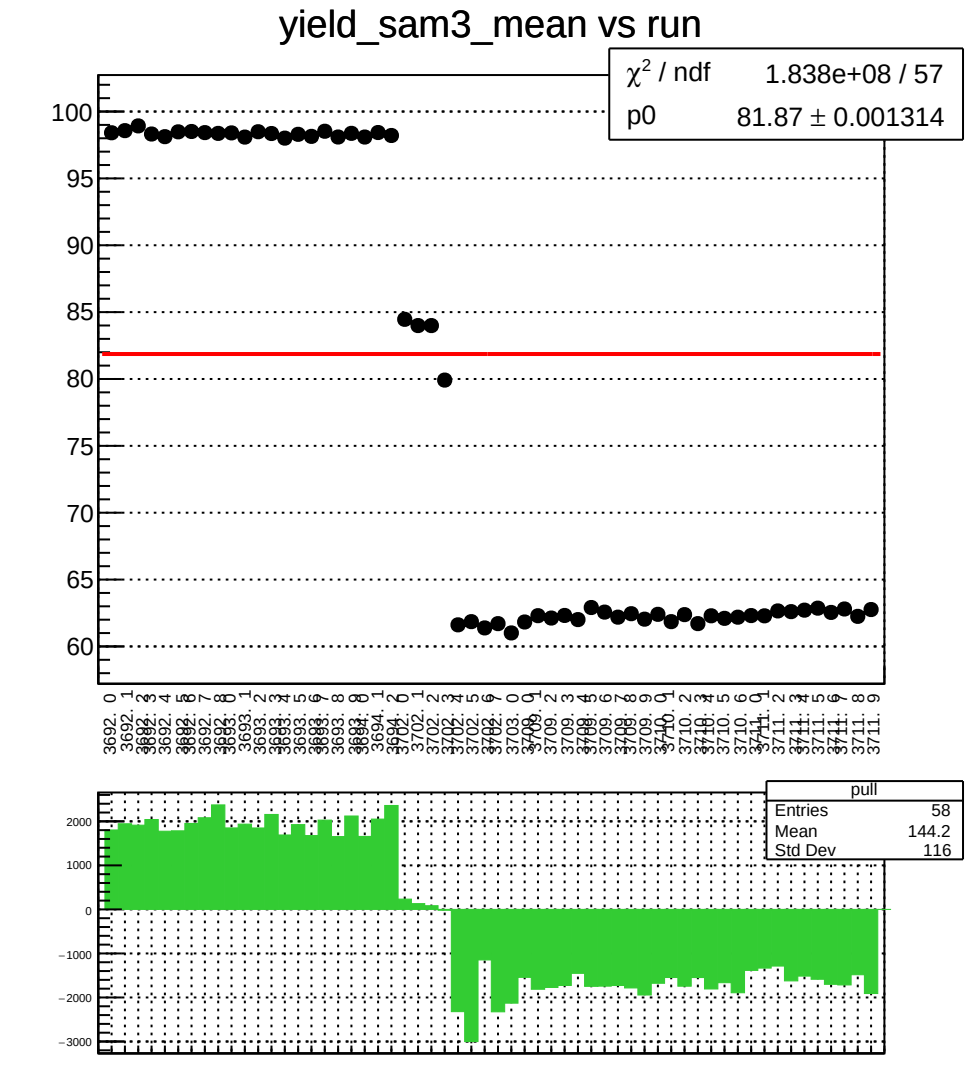

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

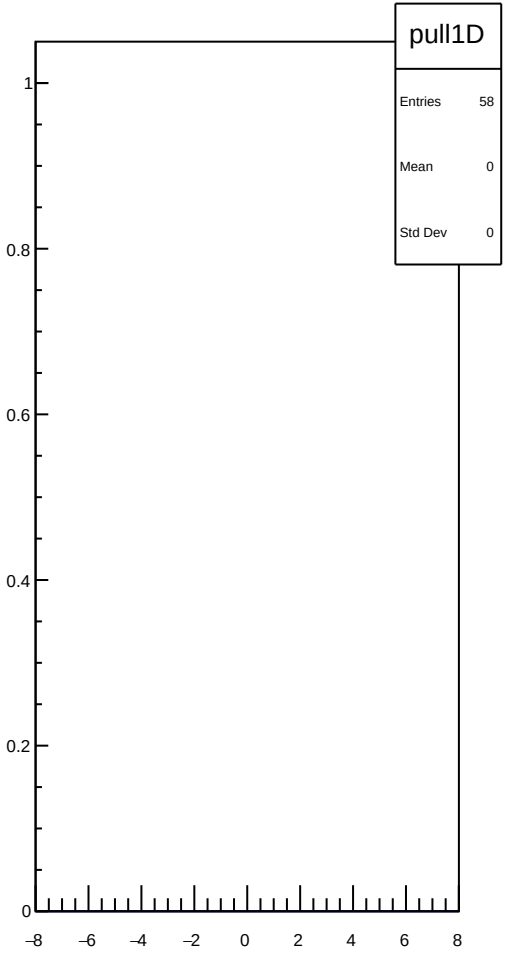

yield_sam1_rms vs run
χ² / ndf 3.701e+04 / 57
p0 0.02032 ± 1.983e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02

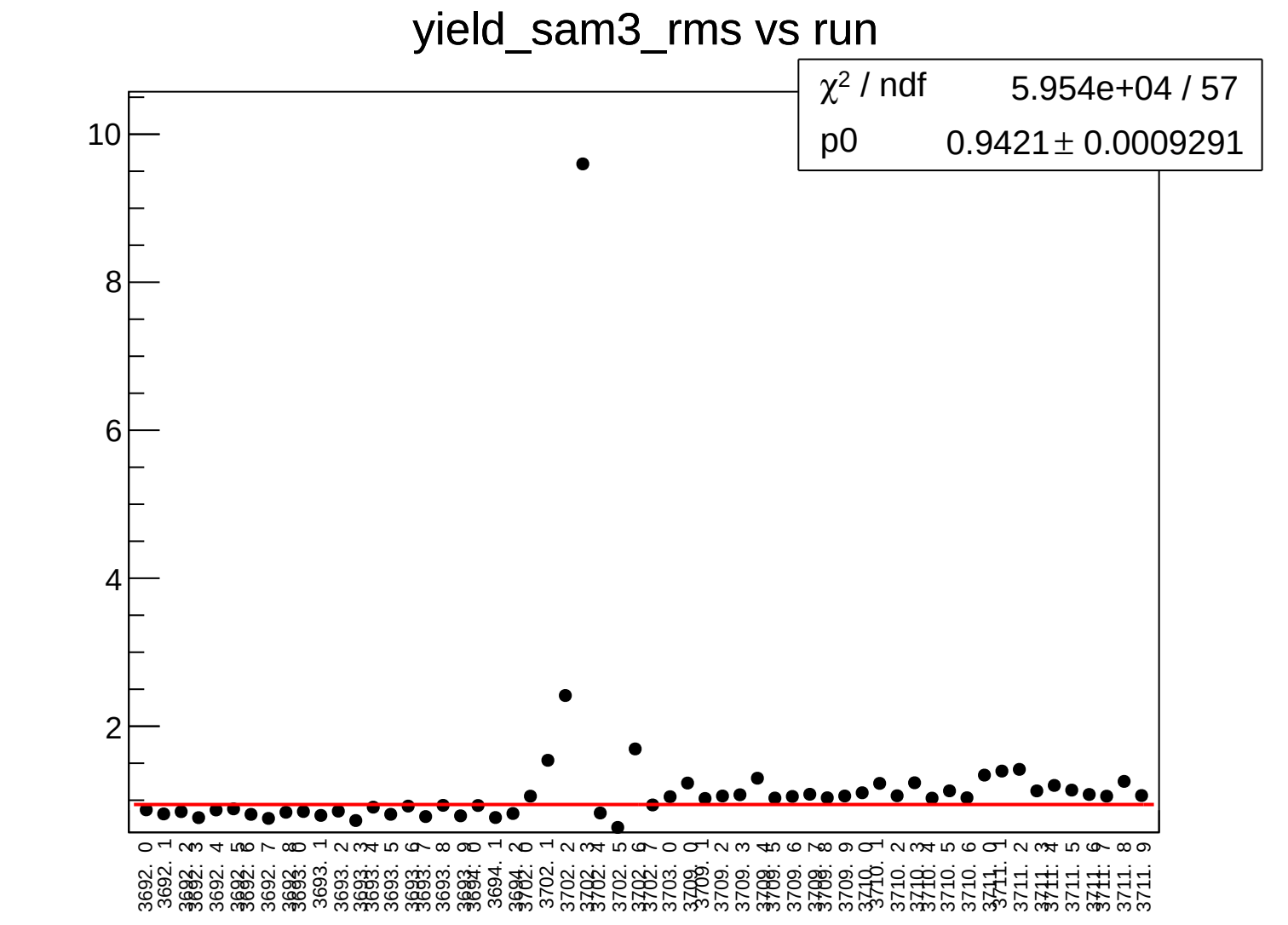

yield_sam2_mean vs run
χ² / ndf 2.201e+06 / 57
p0 12.12 ± 0.0002499
12.8
12.6
12.4
12.2
12
11.8
11.6
pull
Entries 58
Mean 125.5
Std Dev 93.8
300
200
100
0
−100
−200
−300

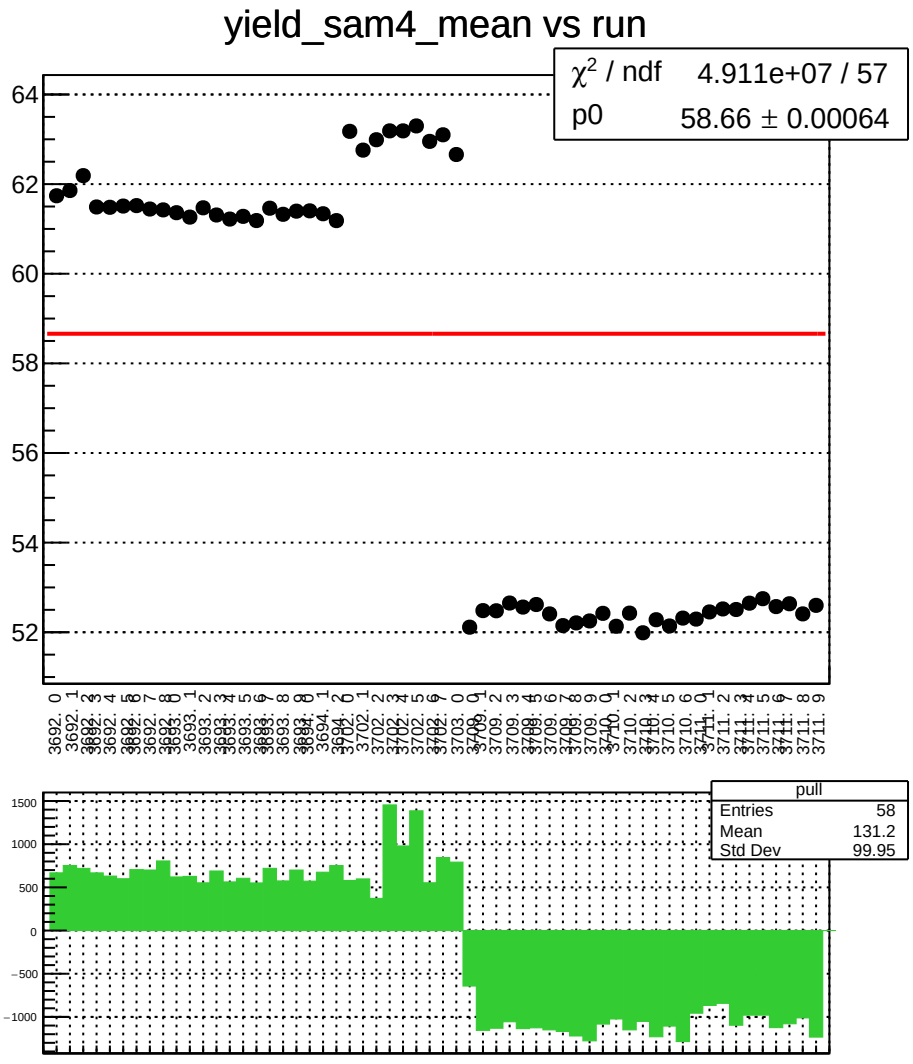

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

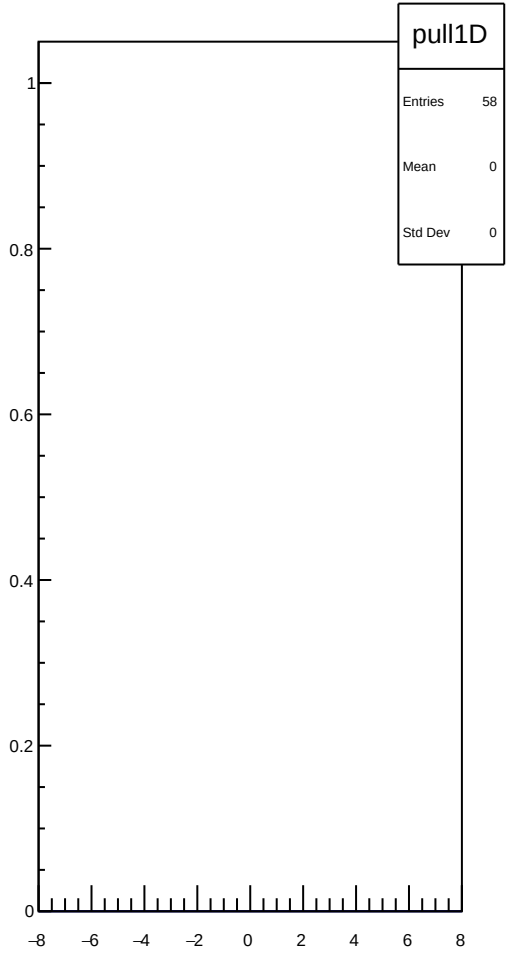

yield_sam2_rms vs run
χ² / ndf 4.289e+04 / 57
p0 0.1806 ± 0.0001767
0.35
0.3
0.25
0.2
0.15

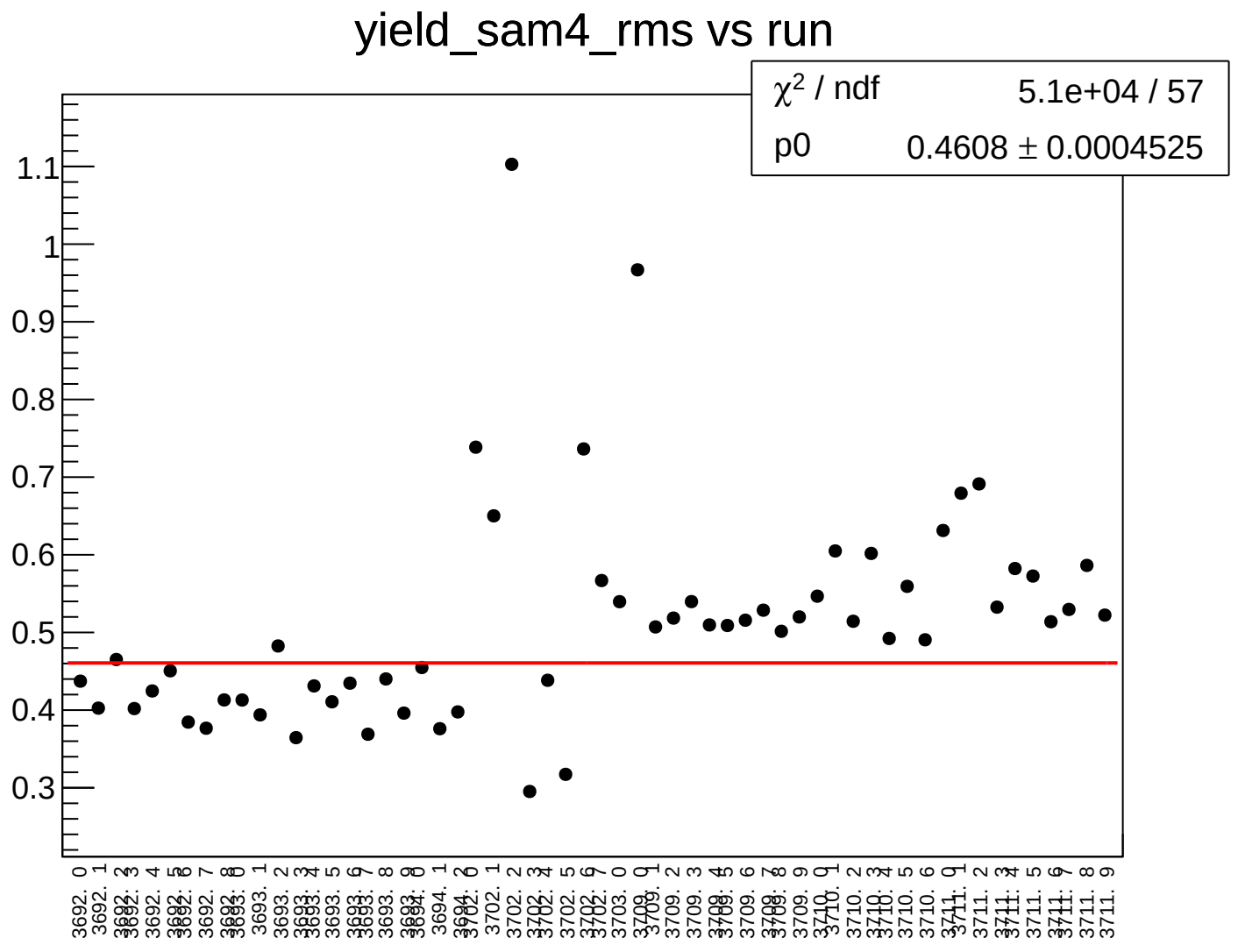

yield_sam3_mean vs run
χ² / ndf 1.838e+08 / 57
p0 81.87 ± 0.001314
pull
Entries 58
Mean 144.2
Std Dev 116

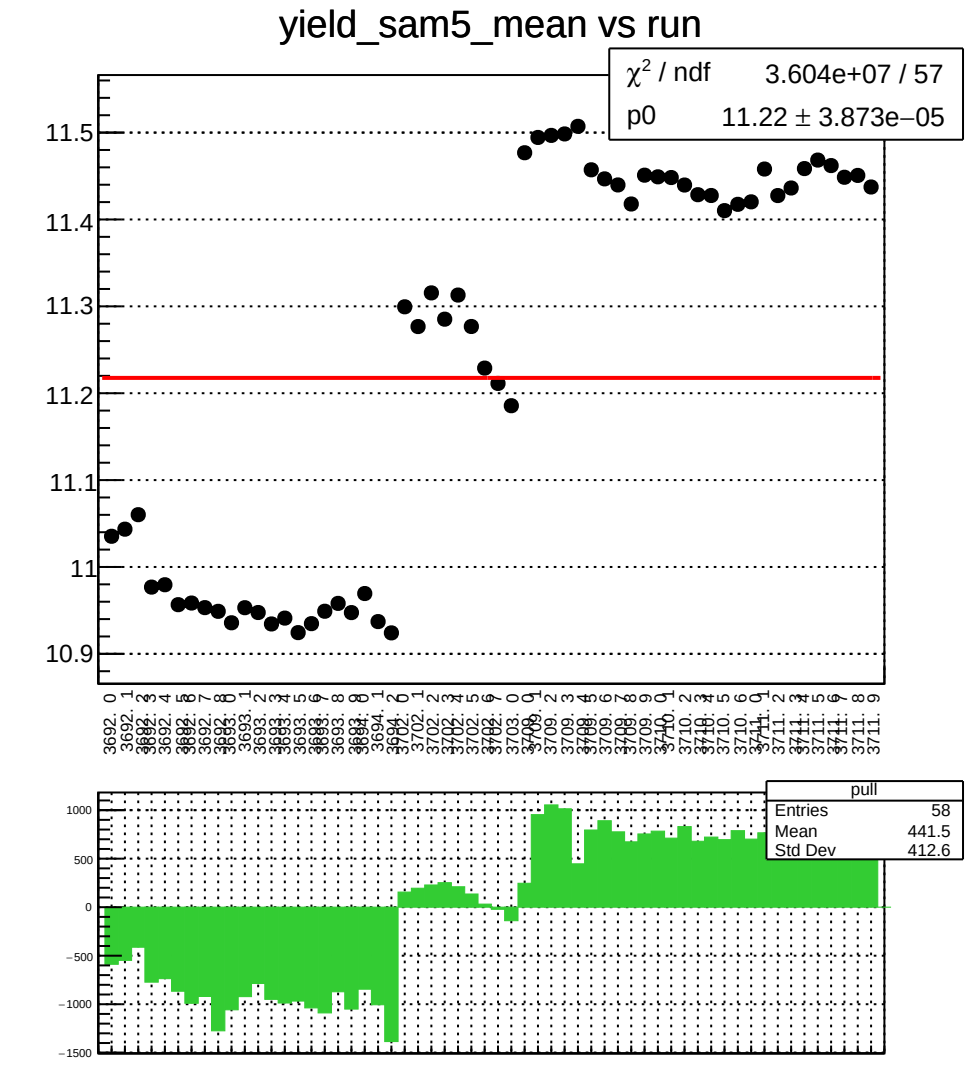

pull1D
Entries 58
Mean 0
Std Dev 0

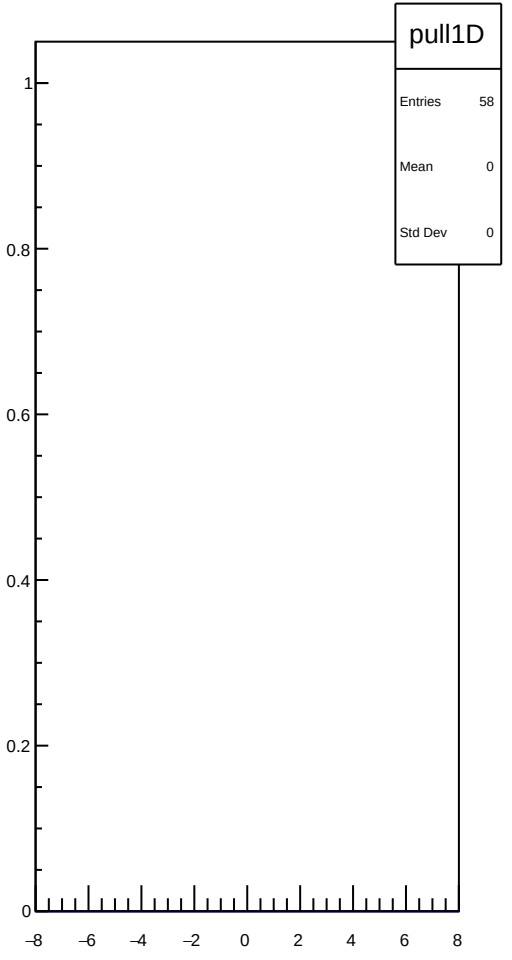

yield_sam3_rms vs run
χ² / ndf 5.954e+04 / 57
p0 0.9421 ± 0.0009291
10
8
6
4
2
3692. 0
3692. 1
3692. 2
3692. 3
3692. 4
3692. 5
3692. 6
3692. 7
3693. 0
3693. 1
3693. 2
3693. 3
3693. 4
3693. 5
3693. 6
3693. 7
3693. 8
3693. 9
3694. 0
3694. 1
3694. 2
3694. 6
3702. 1
3702. 2
3702. 3
3702. 4
3702. 5
3702. 6
3702. 7
3703. 0
3709. 0
3709. 1
3709. 2
3709. 3
3709. 4
3709. 5
3709. 6
3709. 7
3709. 8
3709. 9
3710. 0
3710. 1
3710. 2
3710. 3
3710. 4
3710. 5
3710. 6
3711. 0
3711. 1
3711. 2
3711. 3
3711. 4
3711. 5
3711. 6
3711. 7
3711. 8
3711. 9

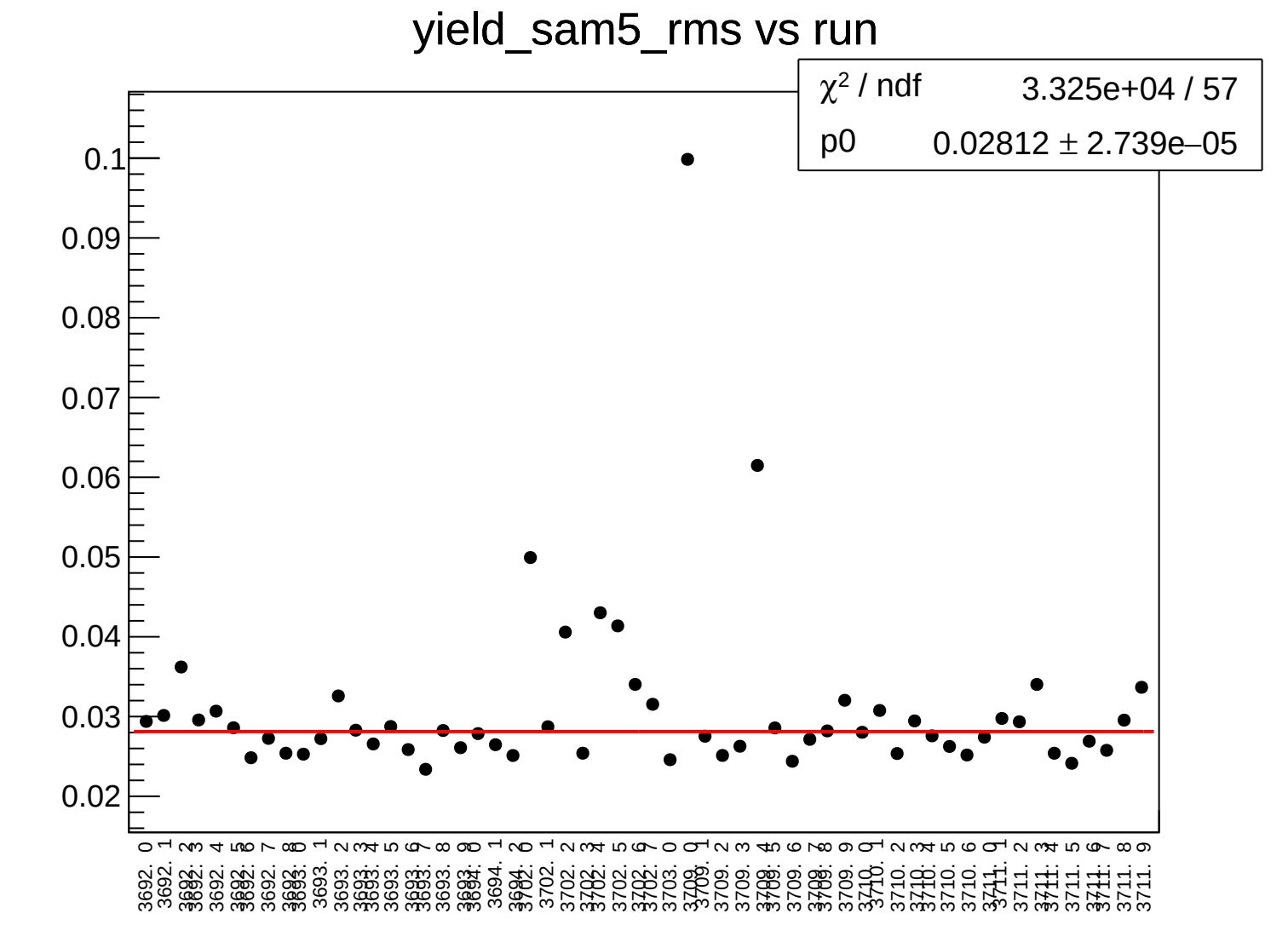

yield_sam4_mean vs run
χ² / ndf 4.911e+07 / 57
p0 58.66 ± 0.00064
pull
Entries 58
Mean 131.2
Std Dev 99.95

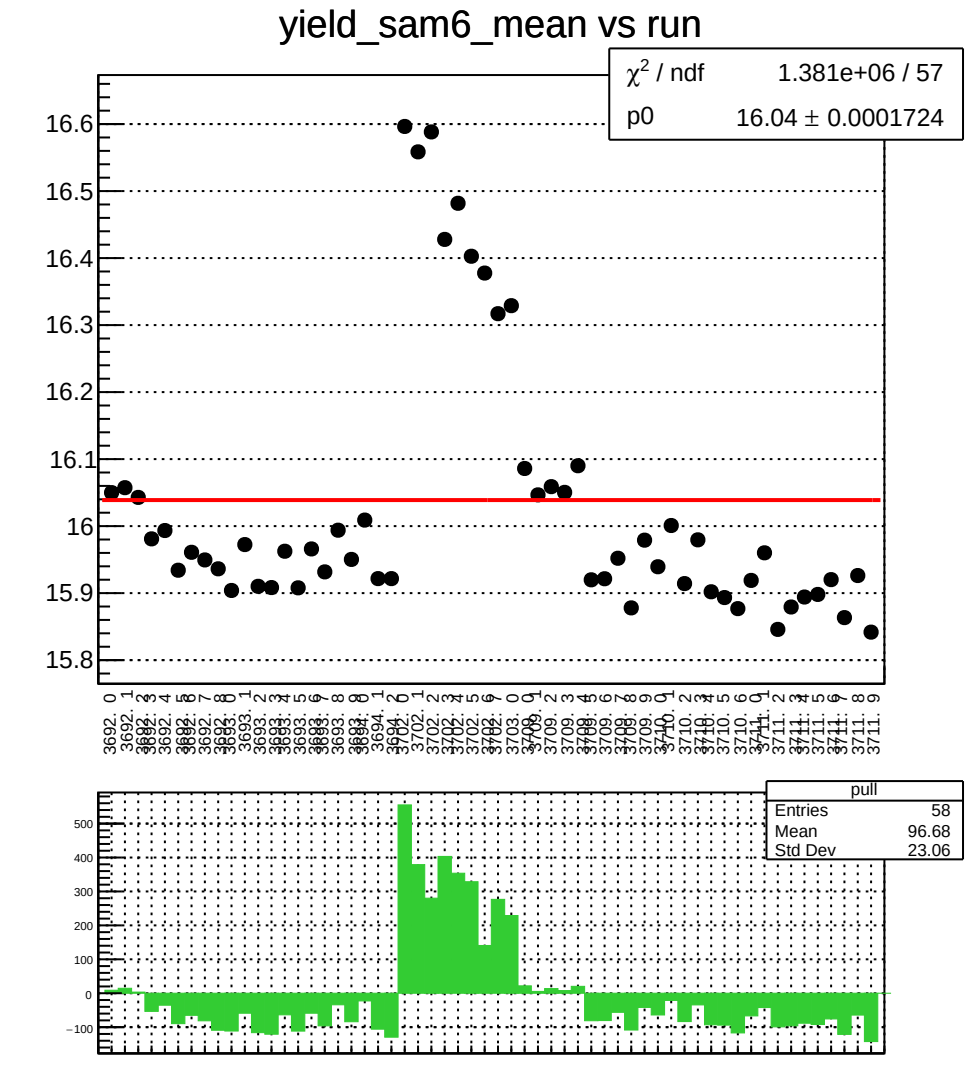

pull1D
Entries 58
Mean 0
Std Dev 0

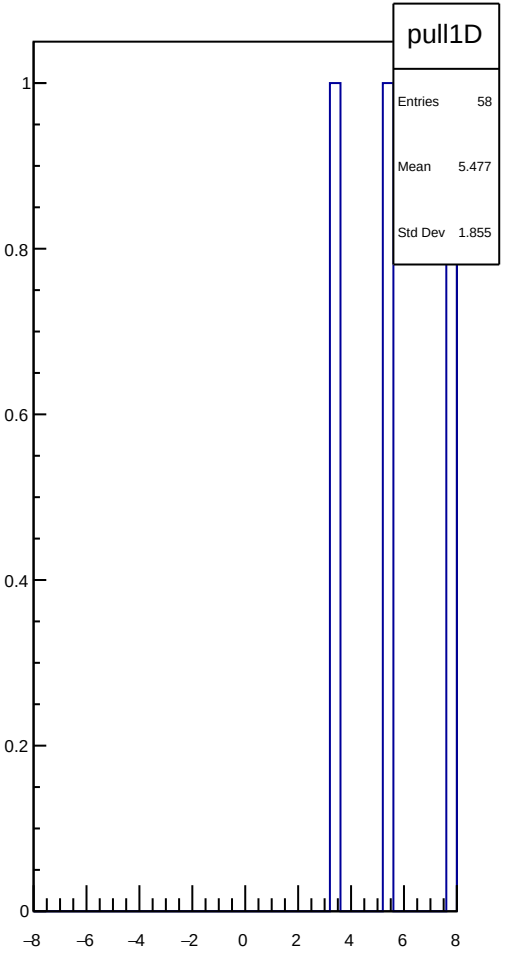

yield_sam4_rms vs run
χ² / ndf 5.1e+04 / 57
p0 0.4608 ± 0.0004525
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

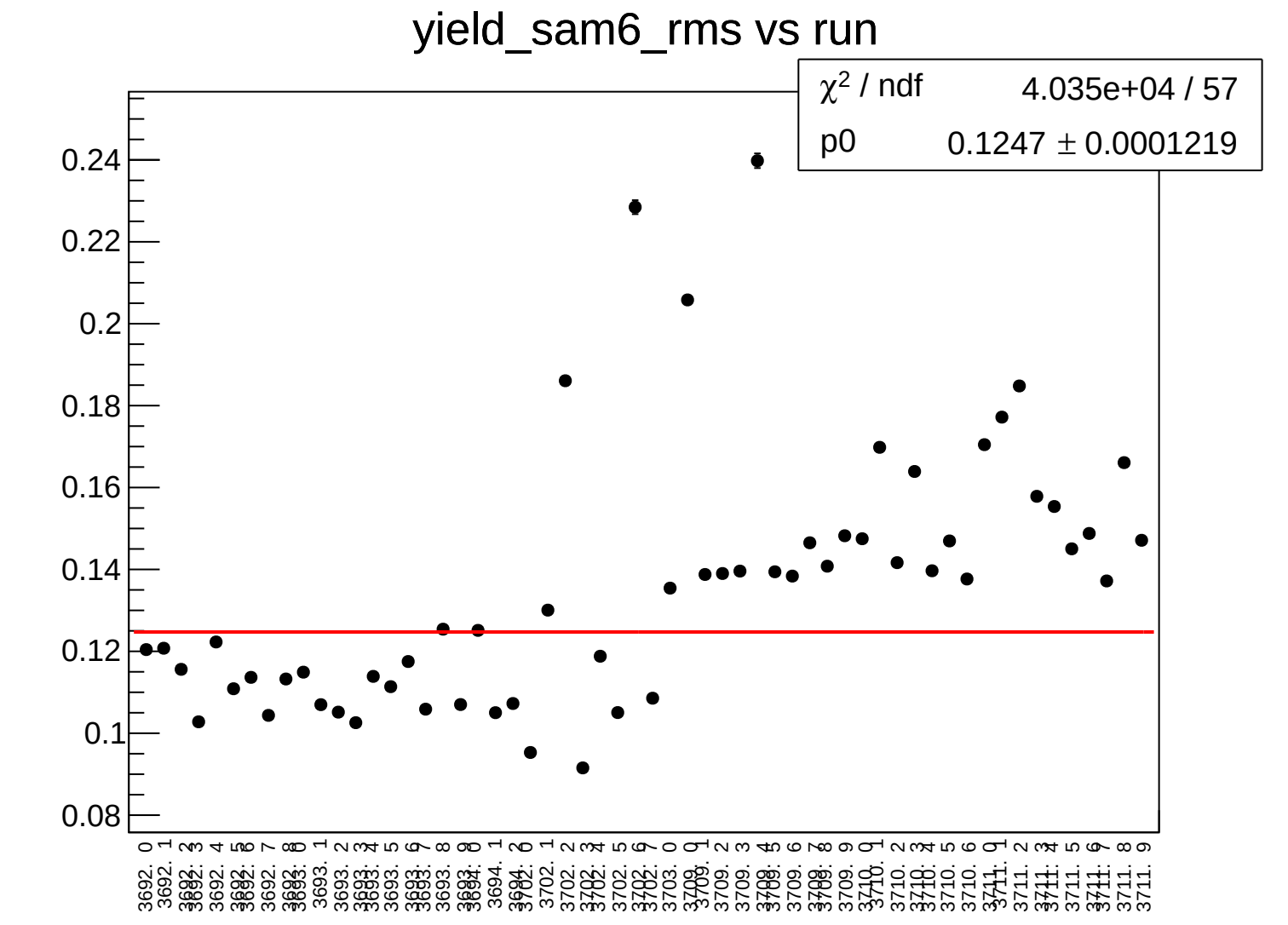

yield_sam5_mean vs run
χ² / ndf 3.604e+07 / 57
p0 11.22 ± 3.873e−05
11.5
11.4
11.3
11.2
11.1
11
10.9
pull
Entries 58
Mean 441.5
Std Dev 412.6
1000
500
0
−500
−1000
−1500

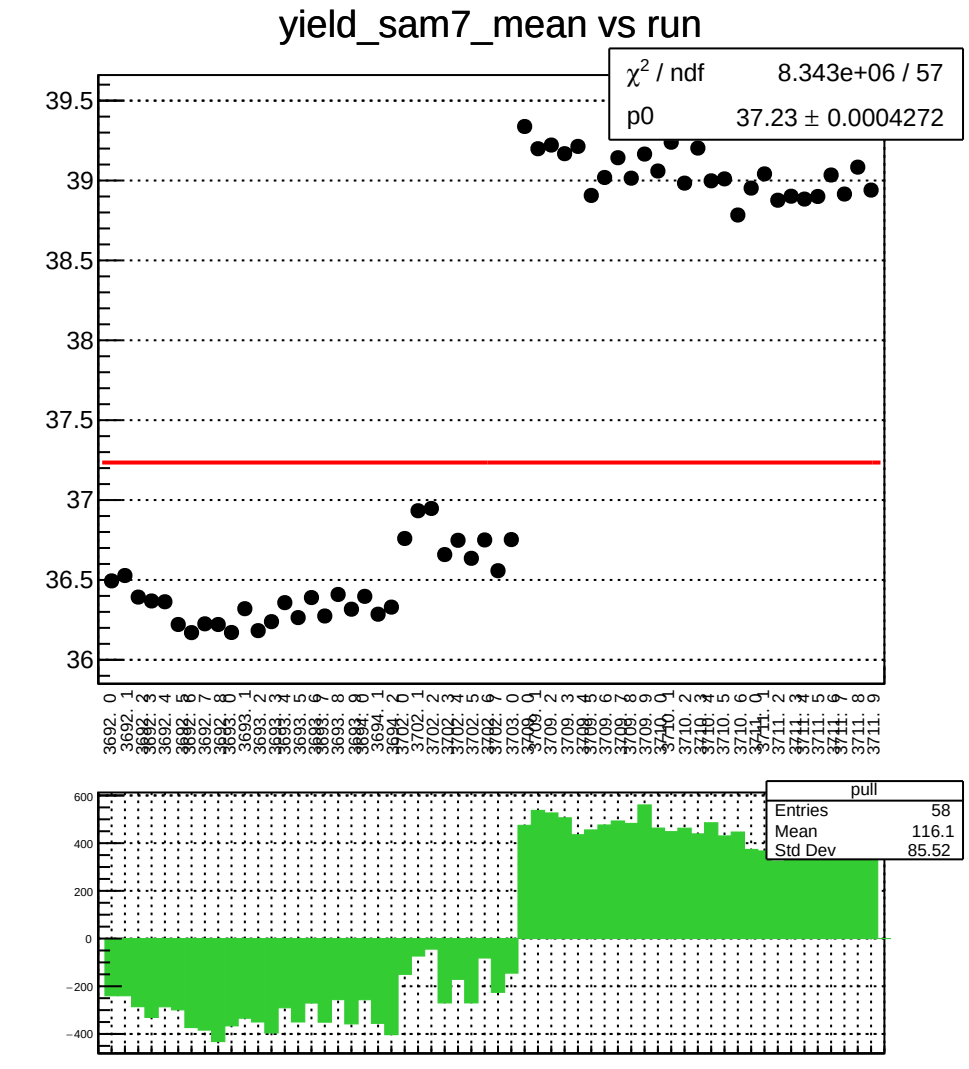

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

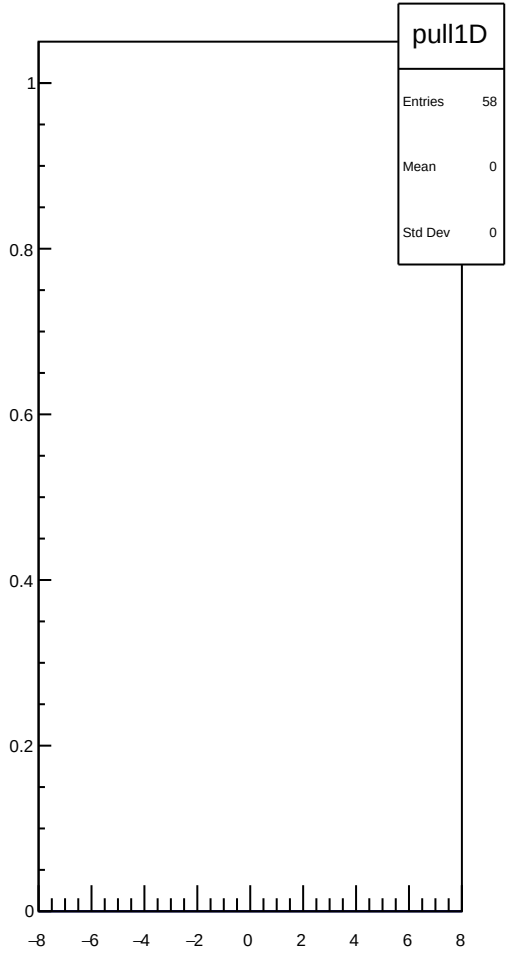

yield_sam5_rms vs run
χ² / ndf 3.325e+04 / 57
p0 0.02812 ± 2.739e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

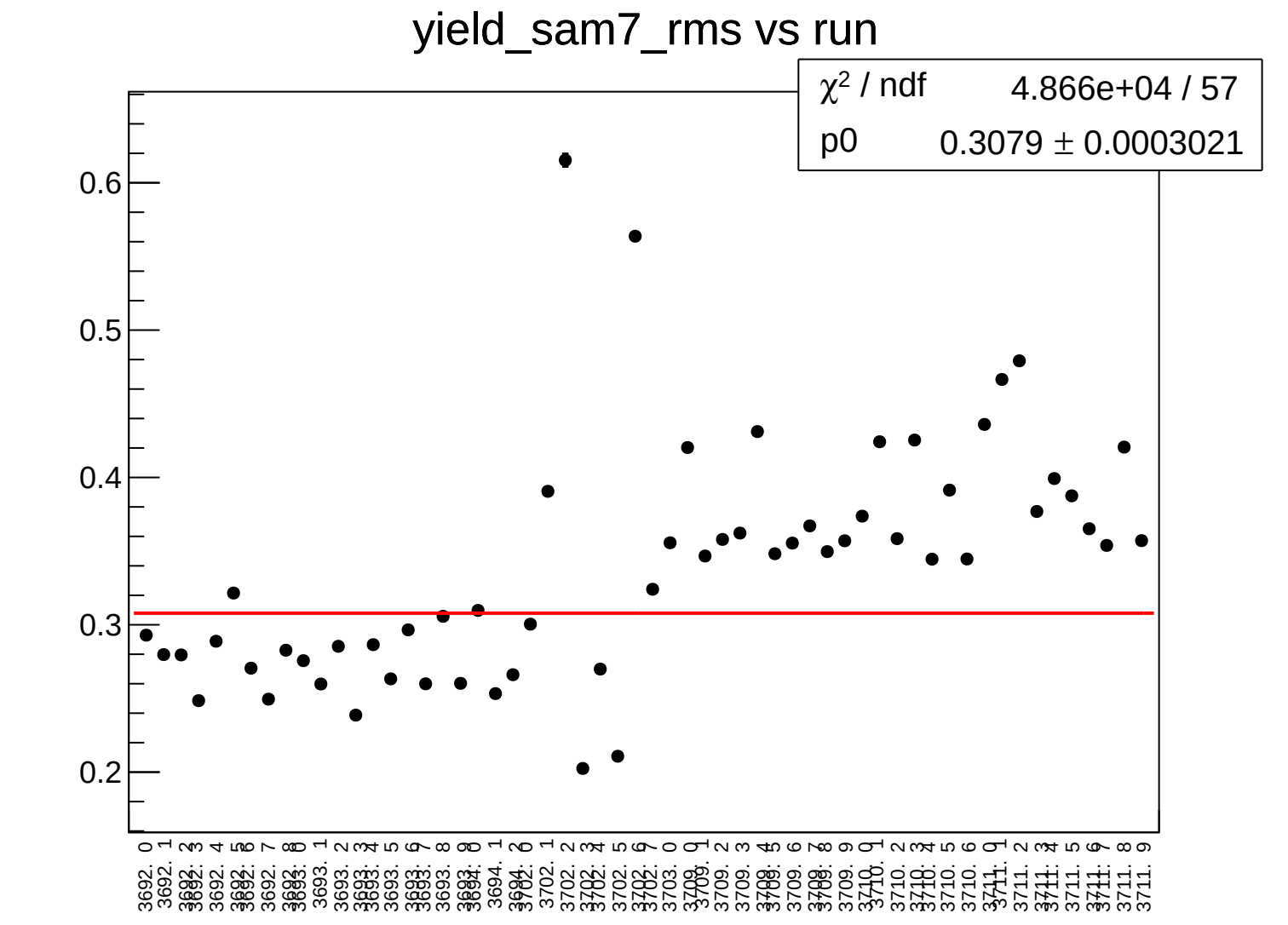

yield_sam6_mean vs run
χ² / ndf 1.381e+06 / 57
p0 16.04 ± 0.0001724
16.6
16.5
16.4
16.3
16.2
16.1
16
15.9
15.8
pull
Entries 58
Mean 96.68
Std Dev 23.06
500
400
300
200
100
0
−100

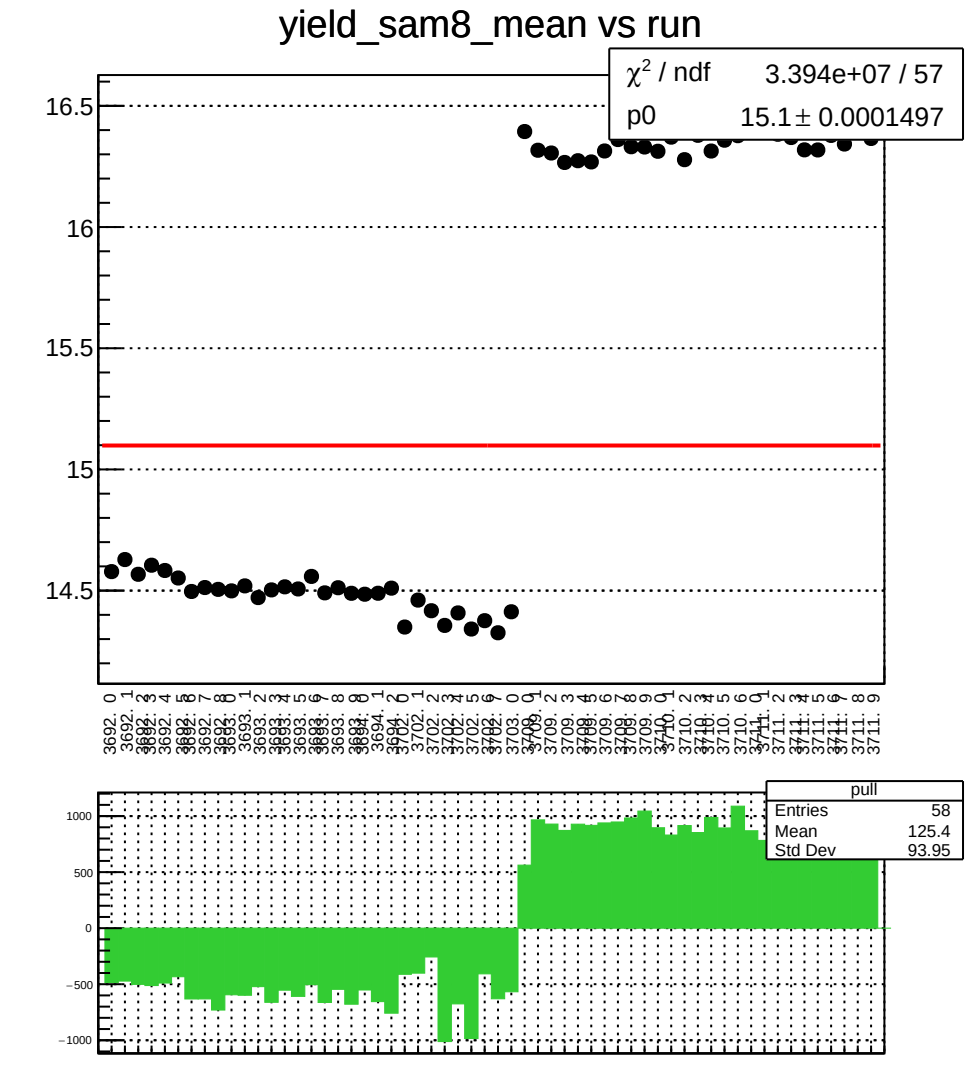

pull1D
Entries 58
Mean 5.477
Std Dev 1.855
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

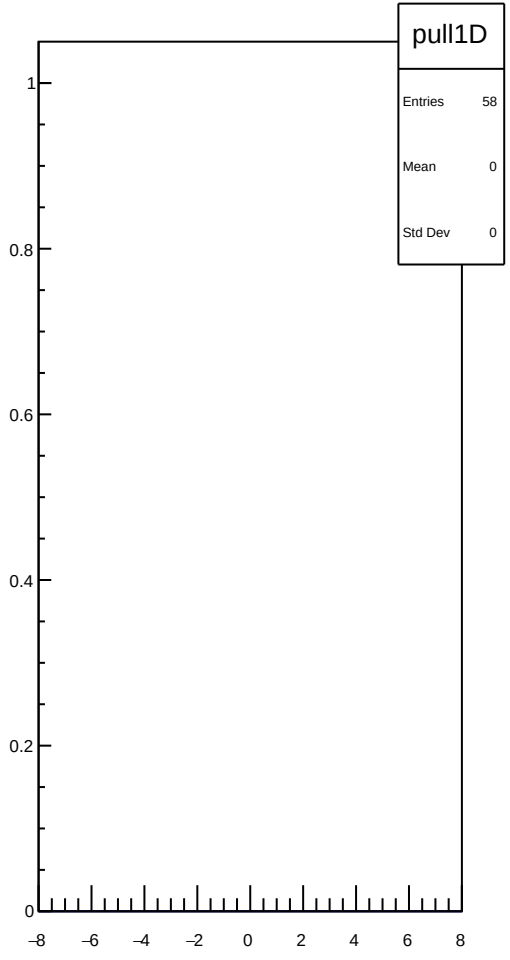

yield_sam6_rms vs run
χ² / ndf 4.035e+04 / 57
p0 0.1247 ± 0.0001219
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

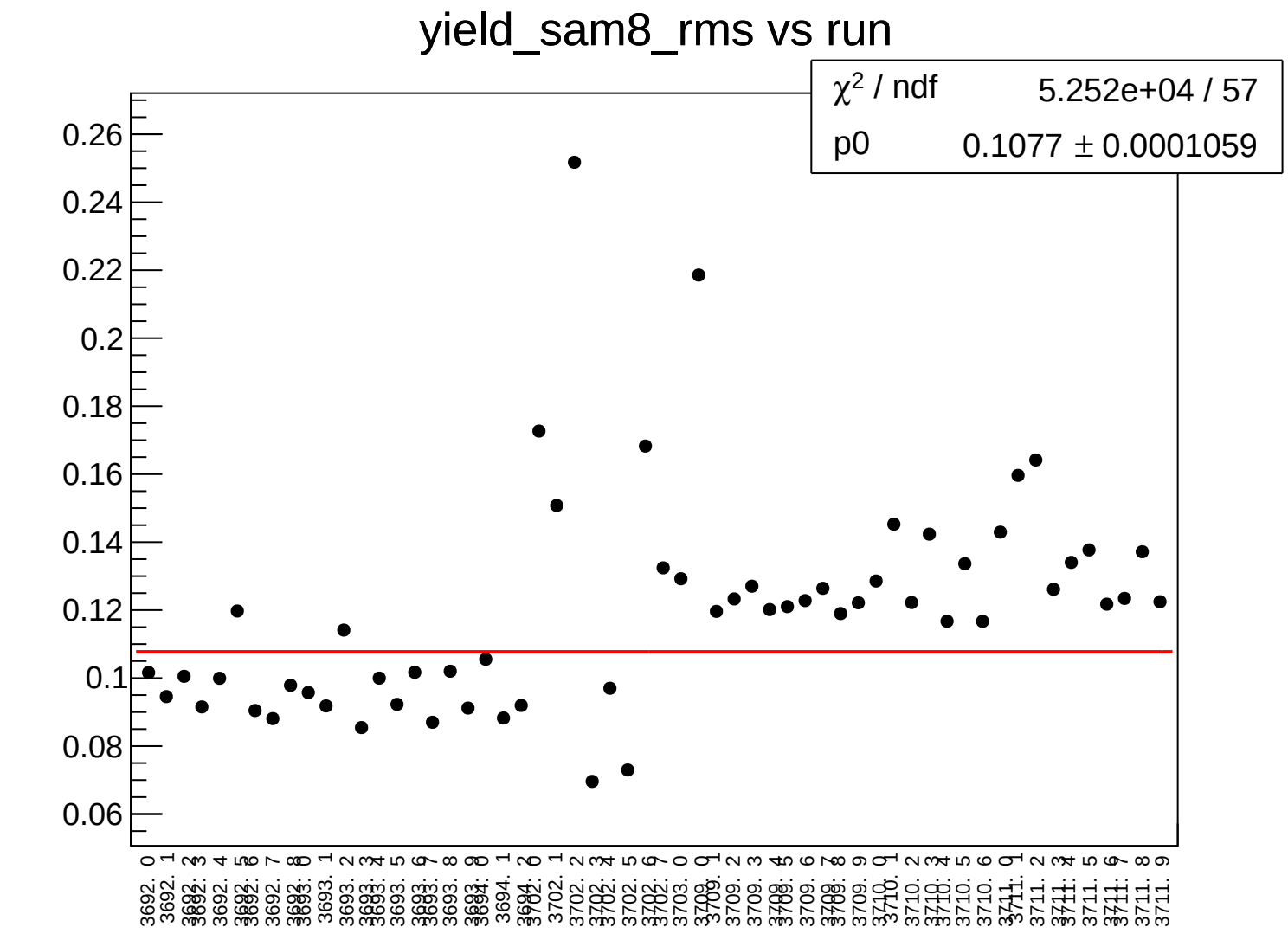

yield_sam7_mean vs run
χ² / ndf 8.343e+06 / 57
p0 37.23 ± 0.0004272
39.5
39
38.5
38
37.5
37
36.5
36
pull
Entries 58
Mean 116.1
Std Dev 85.52
600
400
200
0
−200
−400

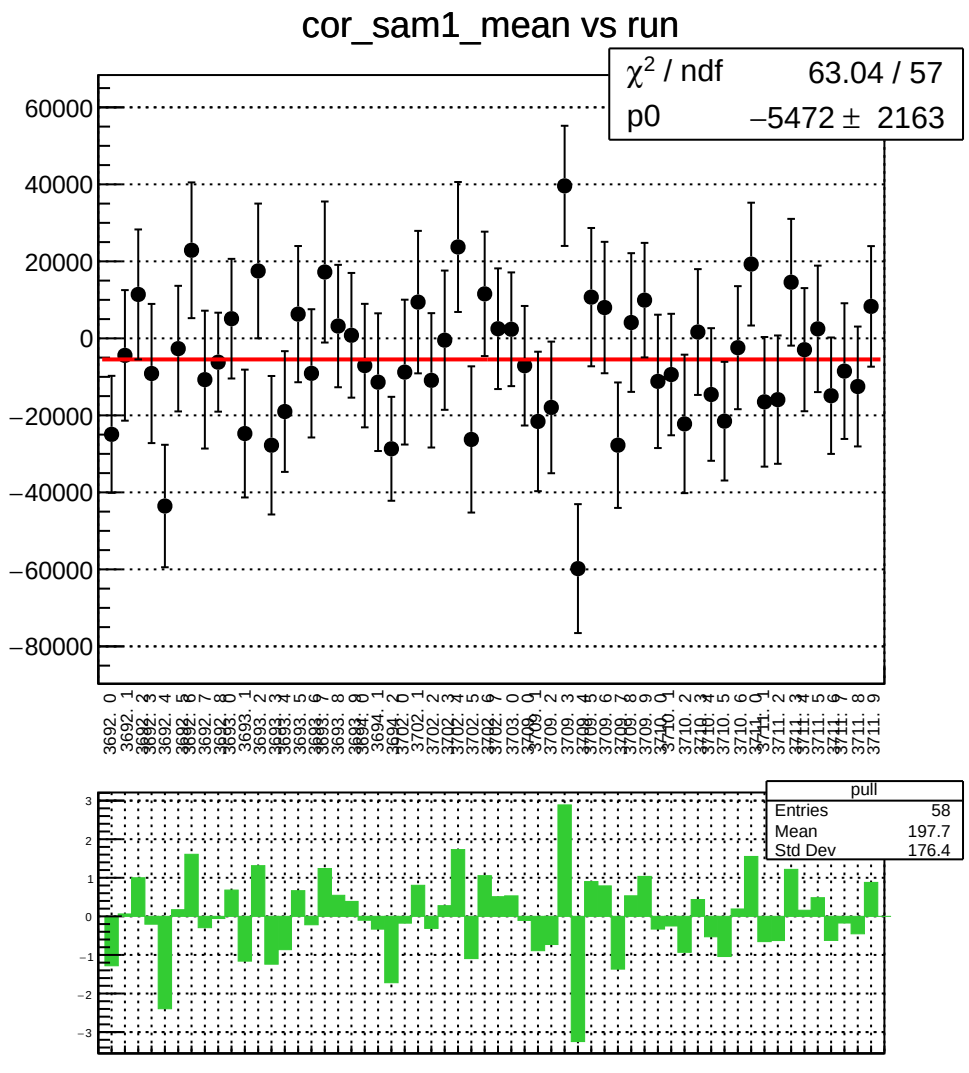

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

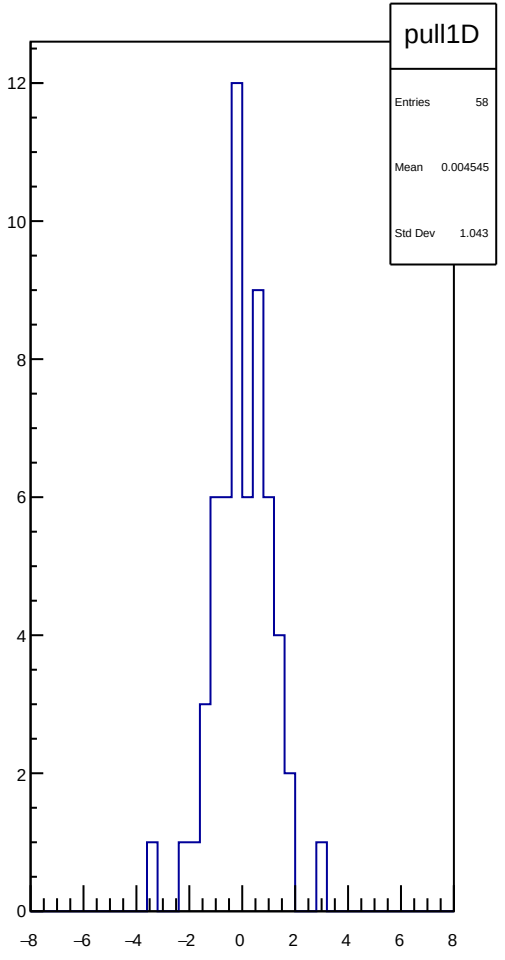

yield_sam7_rms vs run
χ² / ndf 4.866e+04 / 57
p0 0.3079 ± 0.0003021
0.6
0.5
0.4
0.3
0.2

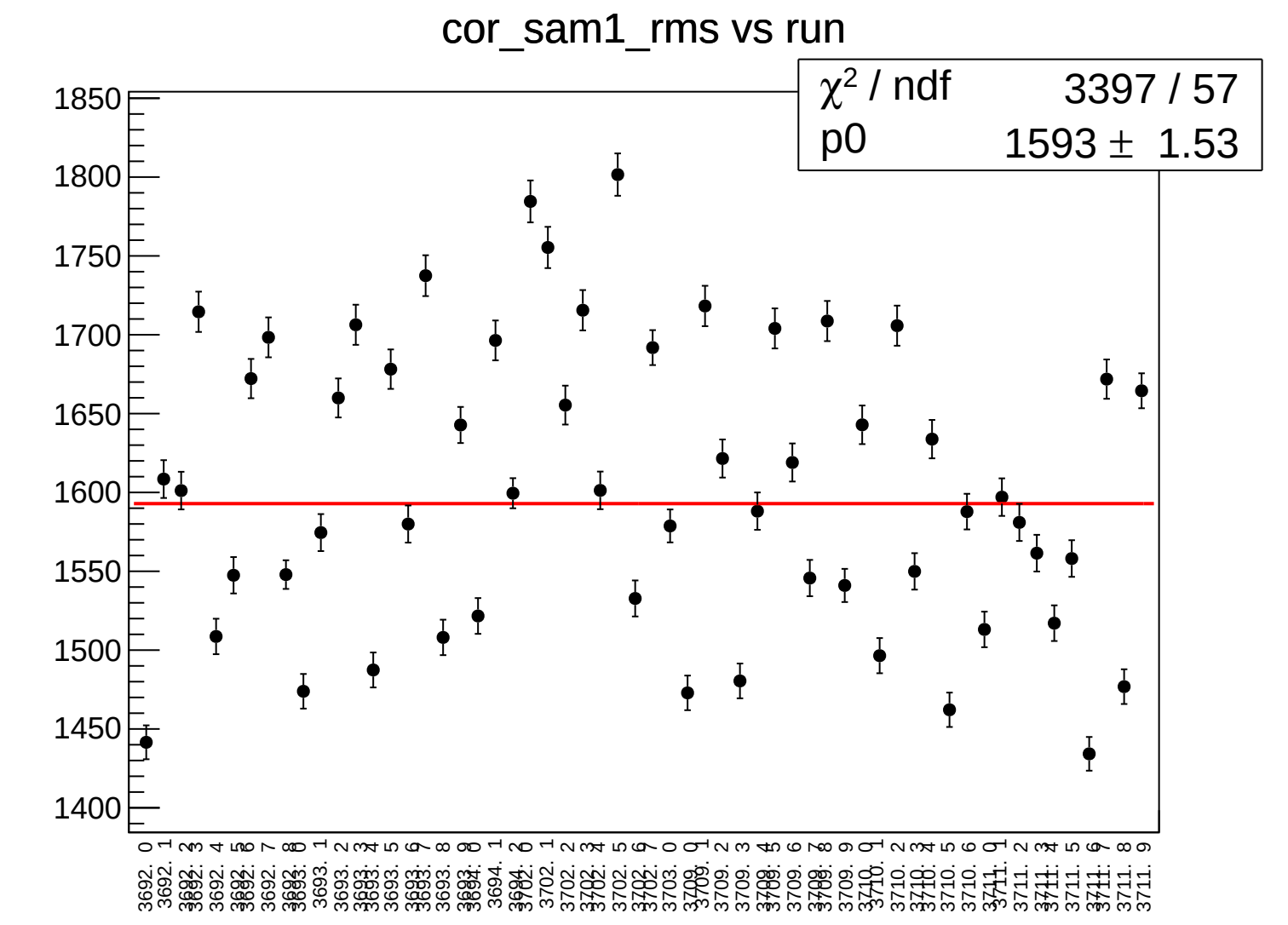

yield_sam8_mean vs run
χ² / ndf 3.394e+07 / 57
p0 15.1 ± 0.0001497
16.5
16
15.5
15
14.5
pull
Entries 58
Mean 125.4
Std Dev 93.95
1000
500
0
−500
−1000

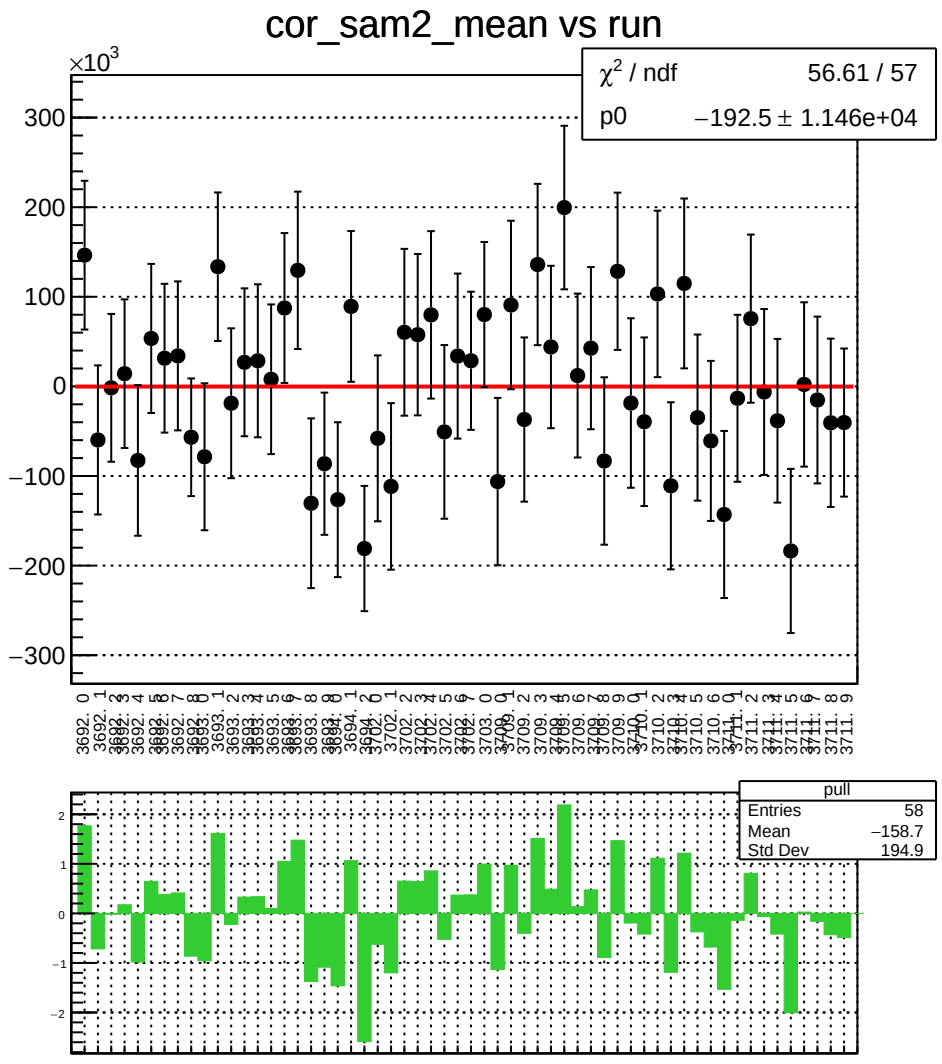

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

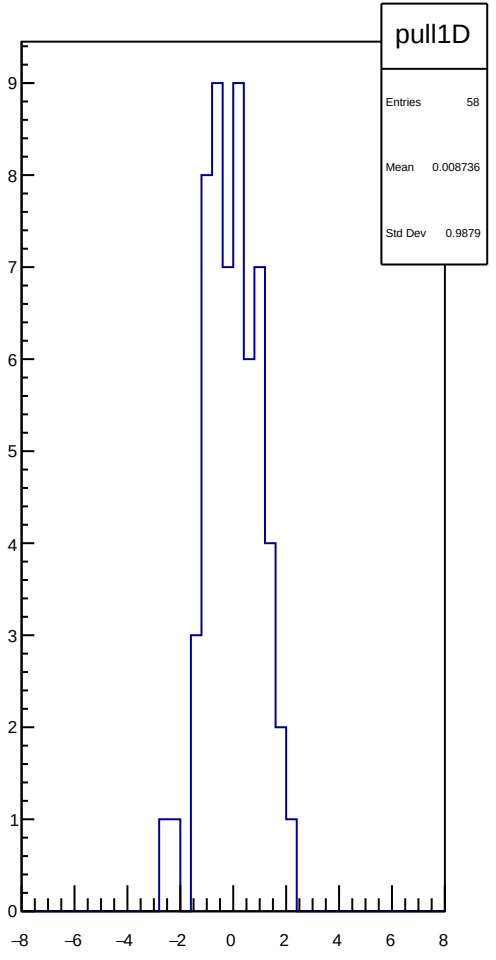

yield_sam8_rms vs run
χ² / ndf 5.252e+04 / 57
p0 0.1077 ± 0.0001059
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

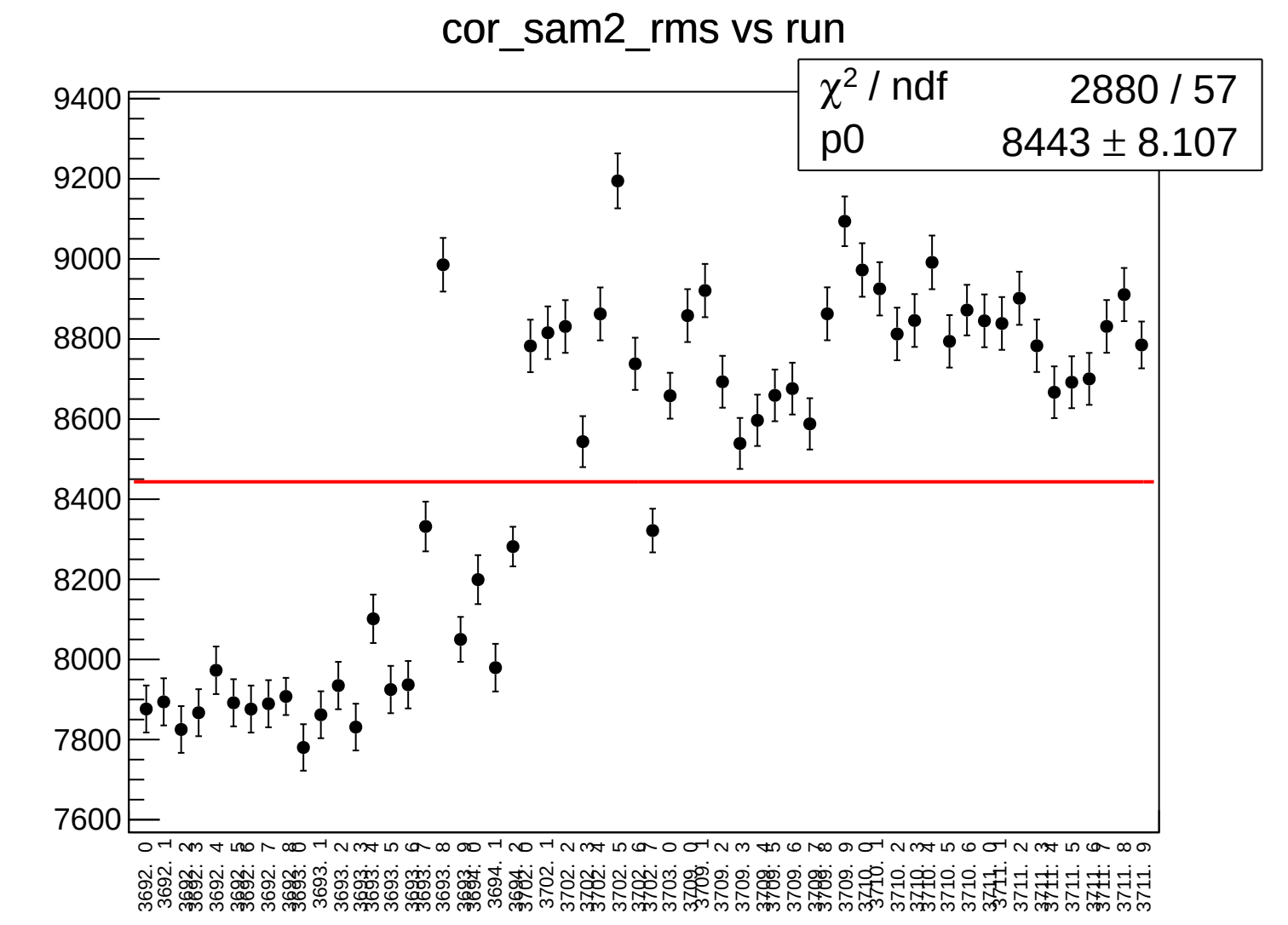

cor_sam1_mean vs run
χ² / ndf 63.04 / 57
p0 −5472 ± 2163
pull
Entries 58
Mean 197.7
Std Dev 176.4

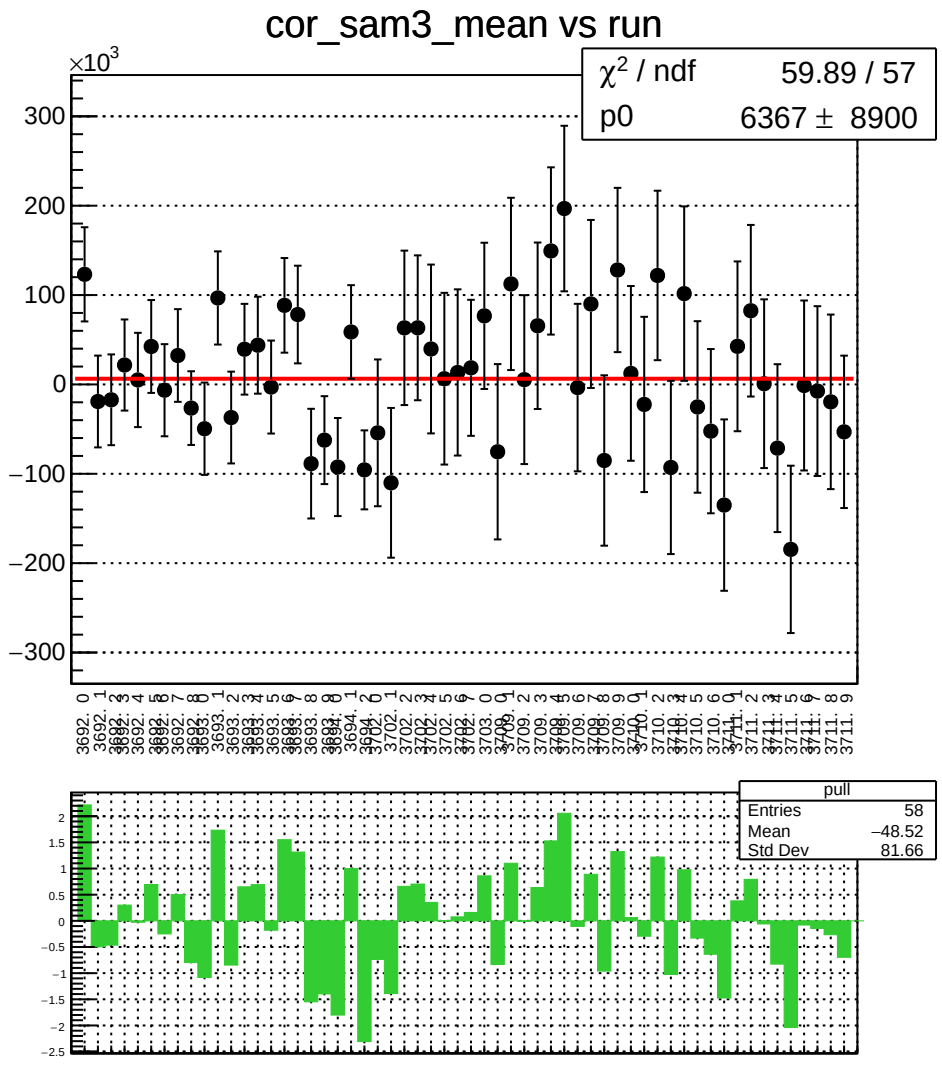

pull1D
Entries 58
Mean 0.004545
Std Dev 1.043

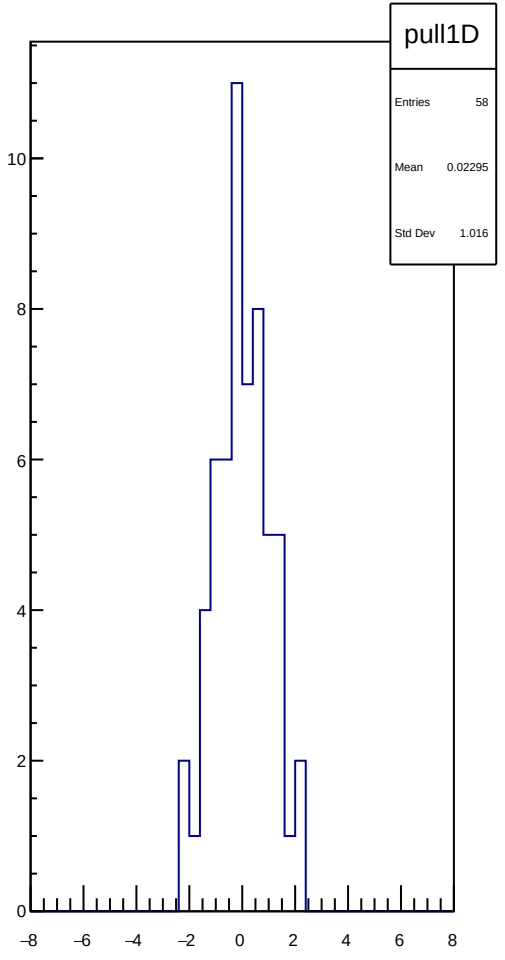

cor_sam1_rms vs run
χ² / ndf 3397 / 57
p0 1593 ± 1.53
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

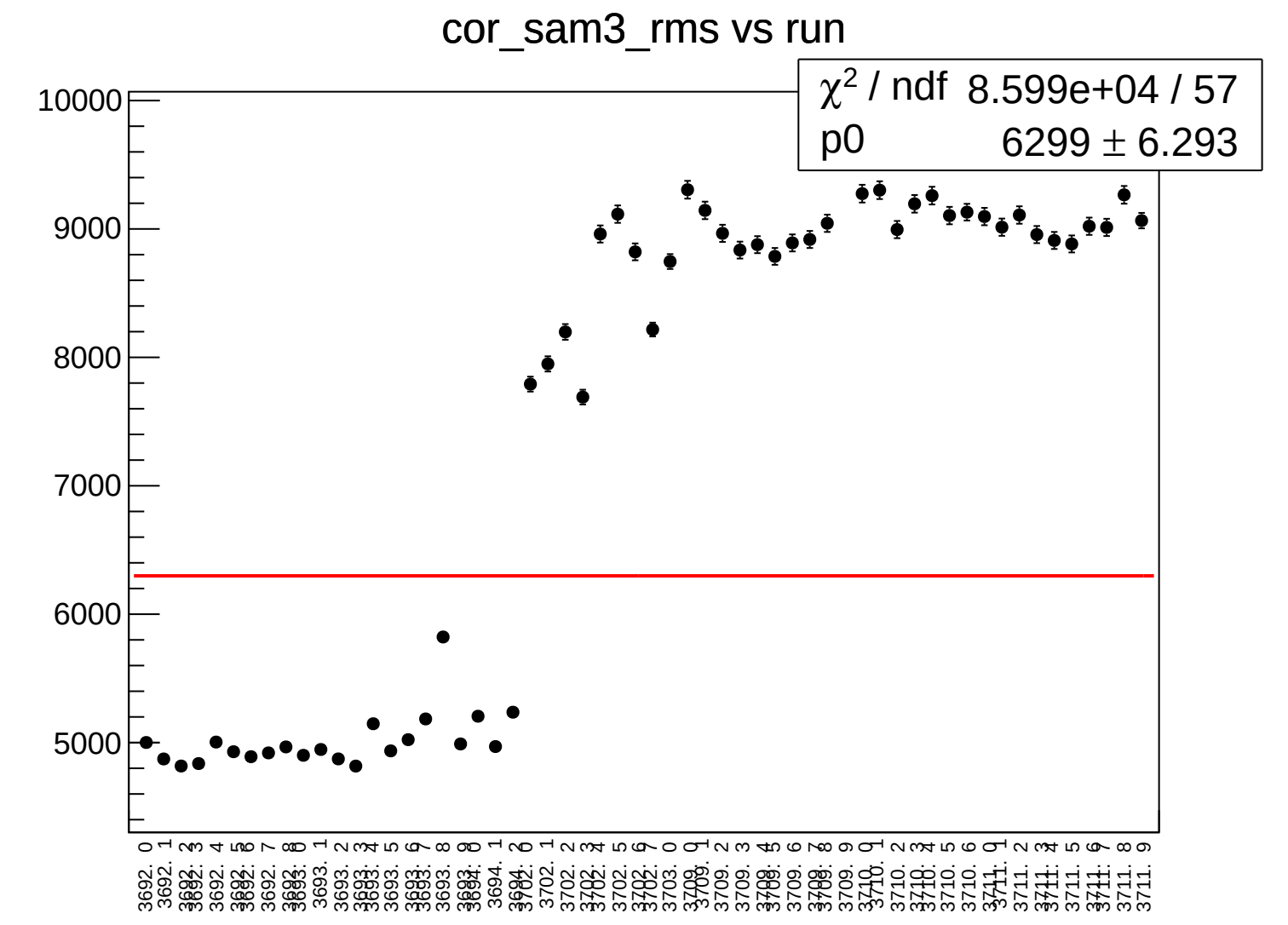

cor_sam2_mean vs run
×10^3
χ² / ndf 56.61 / 57
p0 −192.5 ± 1.146e+04
pull
Entries 58
Mean −158.7
Std Dev 194.9

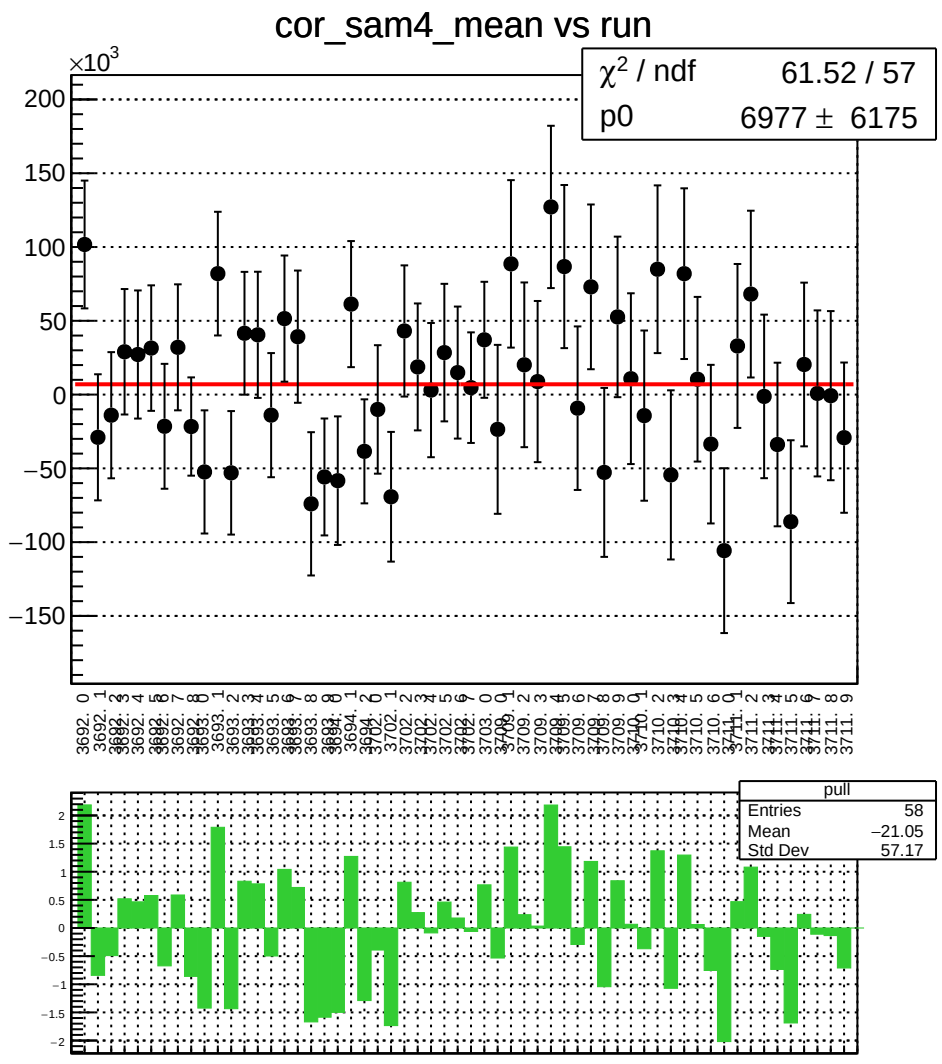

pull1D
Entries 58
Mean 0.008736
Std Dev 0.9879

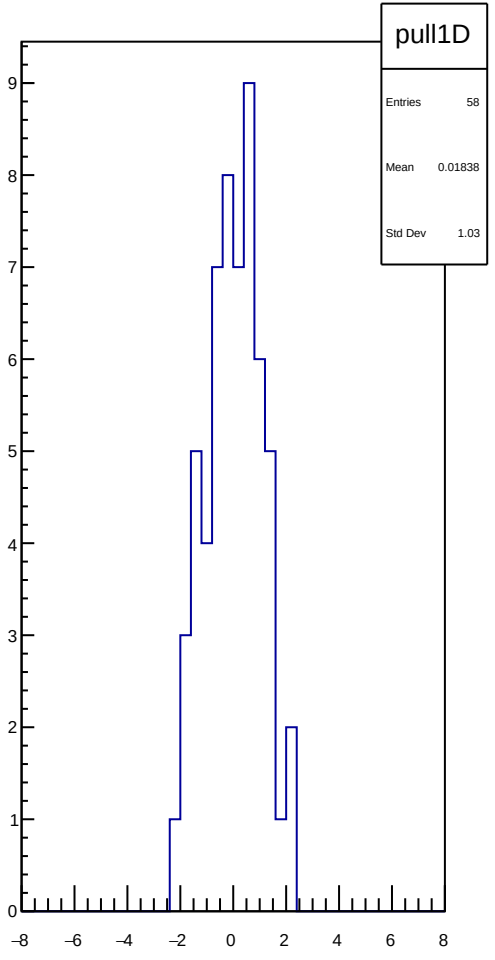

cor_sam2_rms vs run
χ² / ndf 2880 / 57
p0 8443 ± 8.107
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

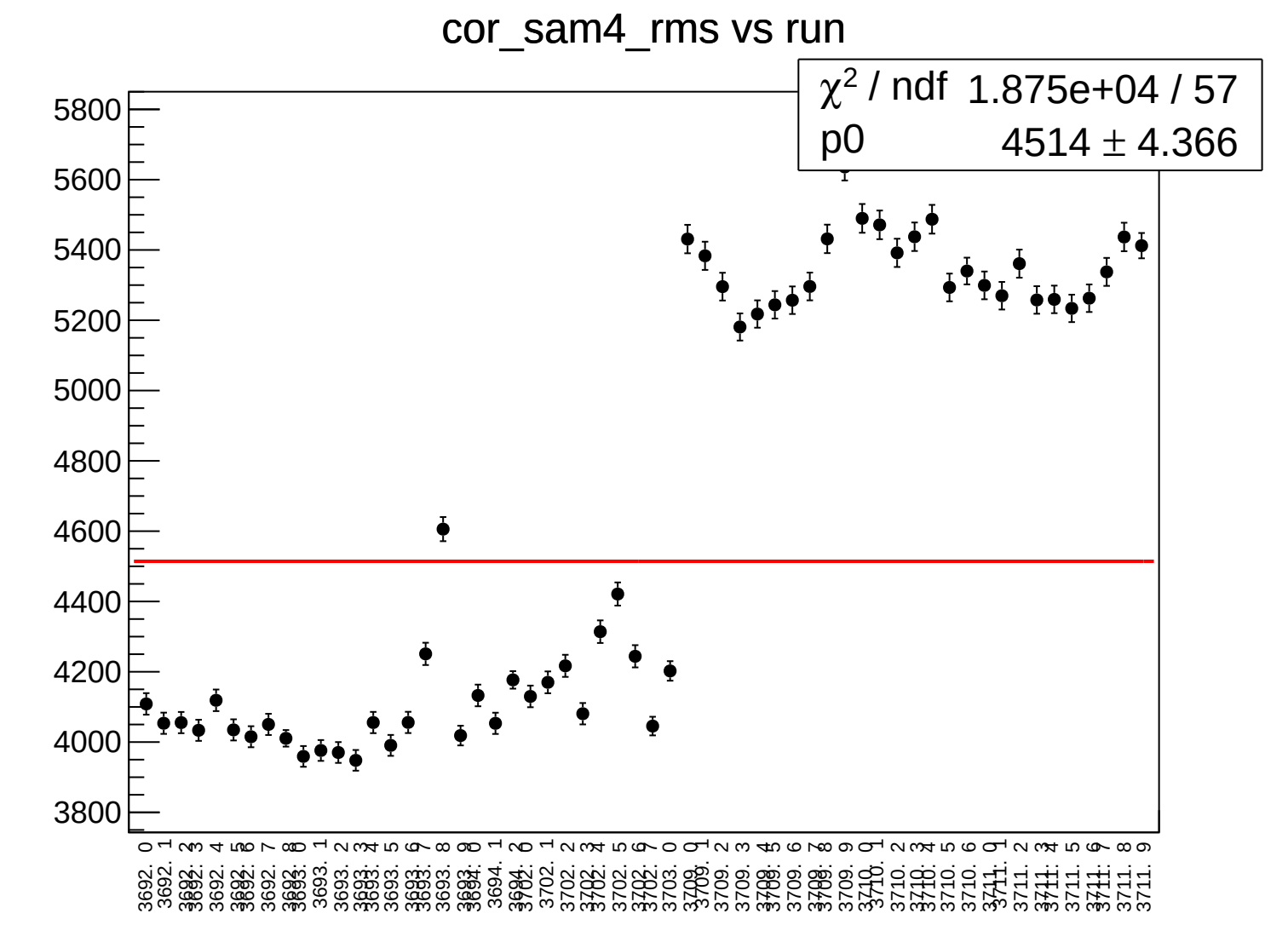

cor_sam3_mean vs run
×10^3
χ^2 / ndf 59.89 / 57
p0 6367 ± 8900
pull
Entries 58
Mean −48.52
Std Dev 81.66

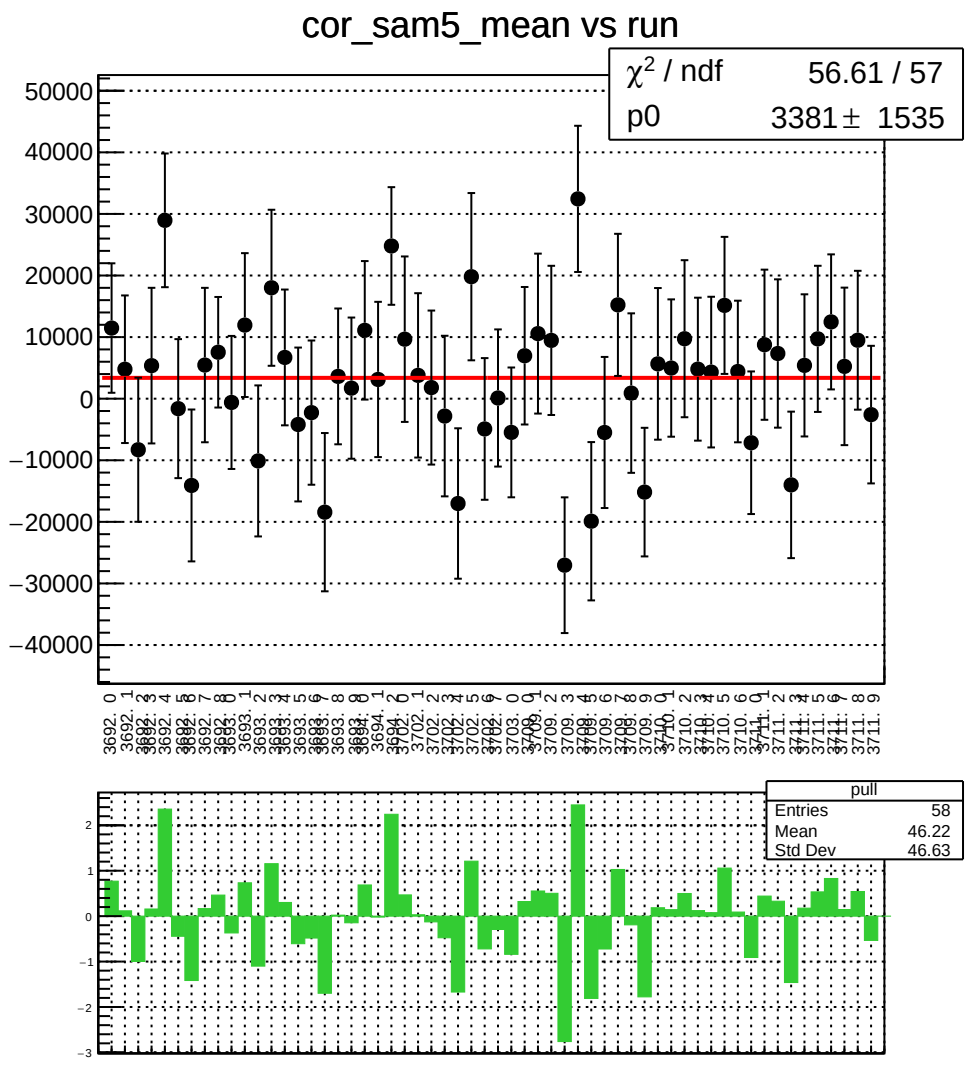

pull1D
Entries 58
Mean 0.02295
Std Dev 1.016

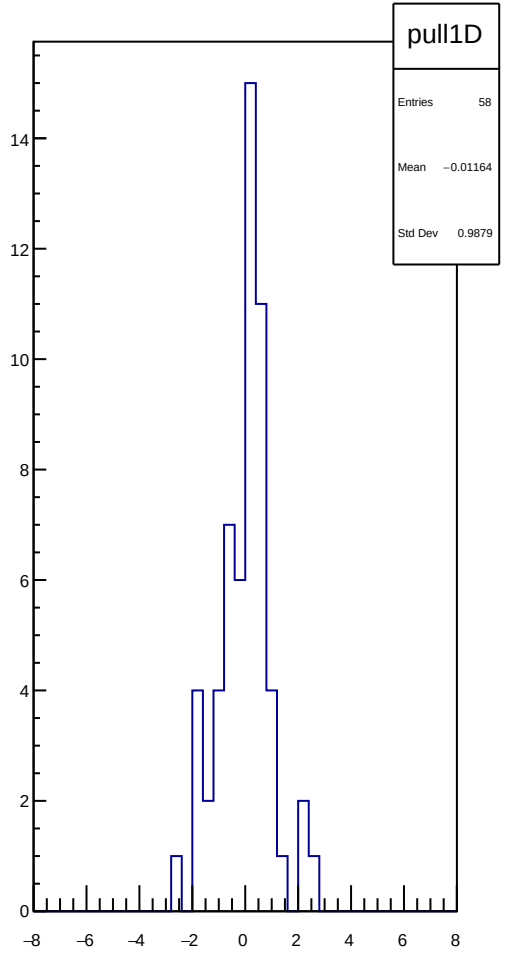

cor_sam3_rms vs run
χ² / ndf 8.599e+04 / 57
p0 6299 ± 6.293
10000
9000
8000
7000
6000
5000

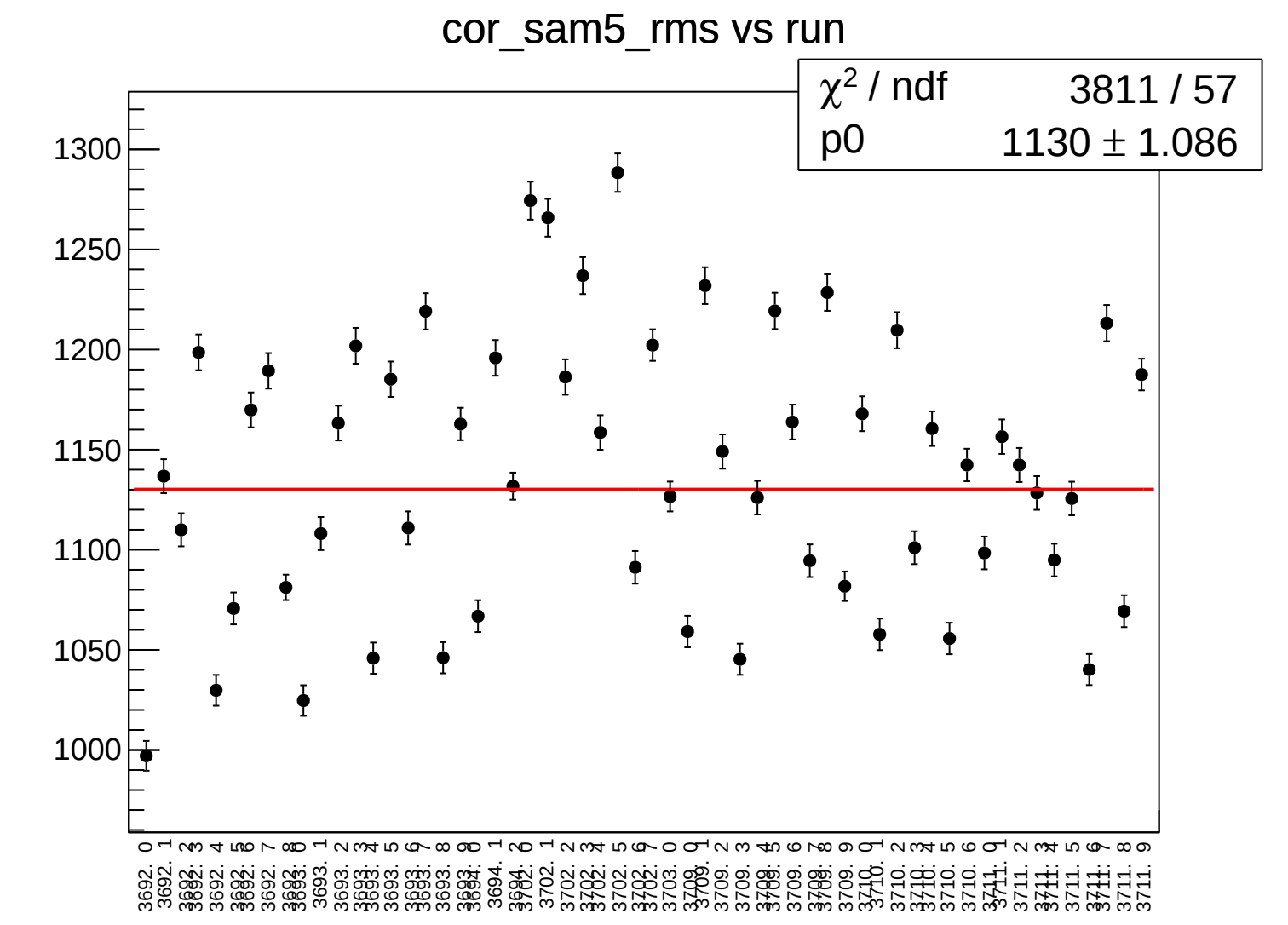

cor_sam4_mean vs run
×10^3
χ² / ndf 61.52 / 57
p0 6977 ± 6175
pull
Entries 58
Mean −21.05
Std Dev 57.17

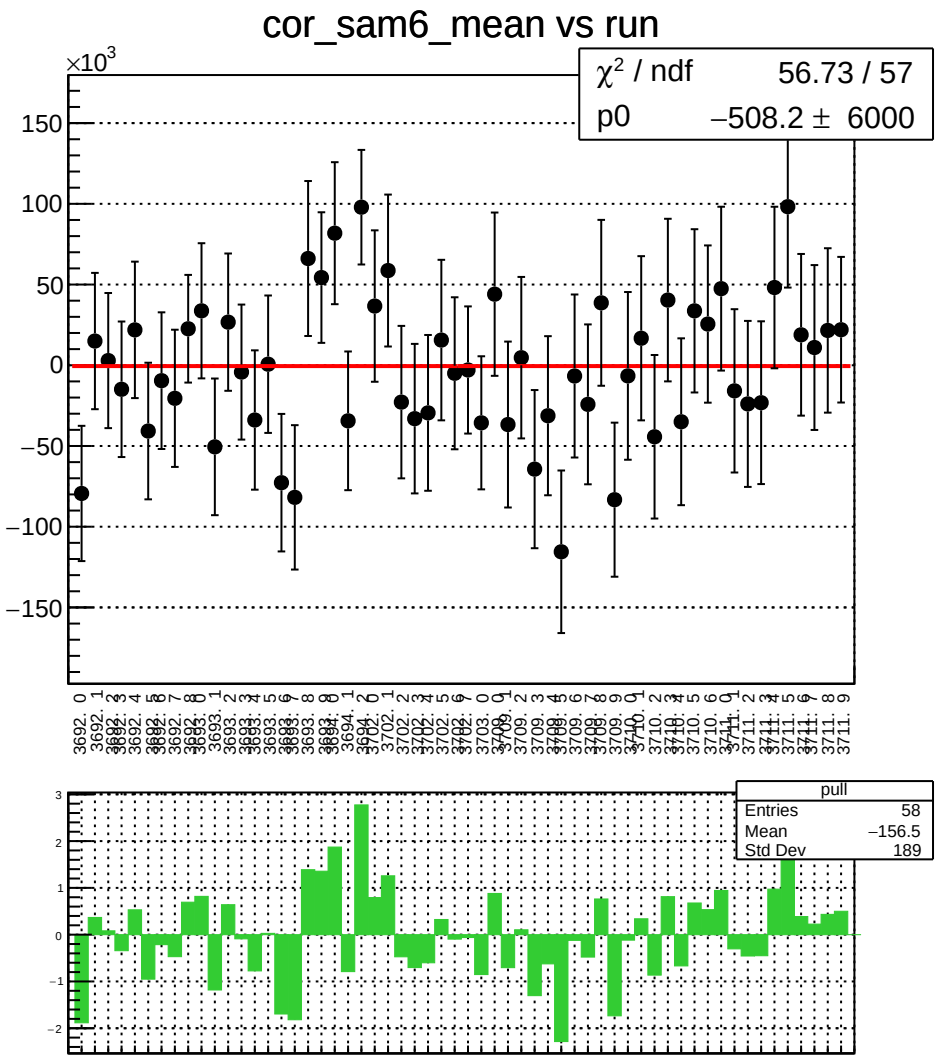

pull1D
Entries 58
Mean 0.01838
Std Dev 1.03

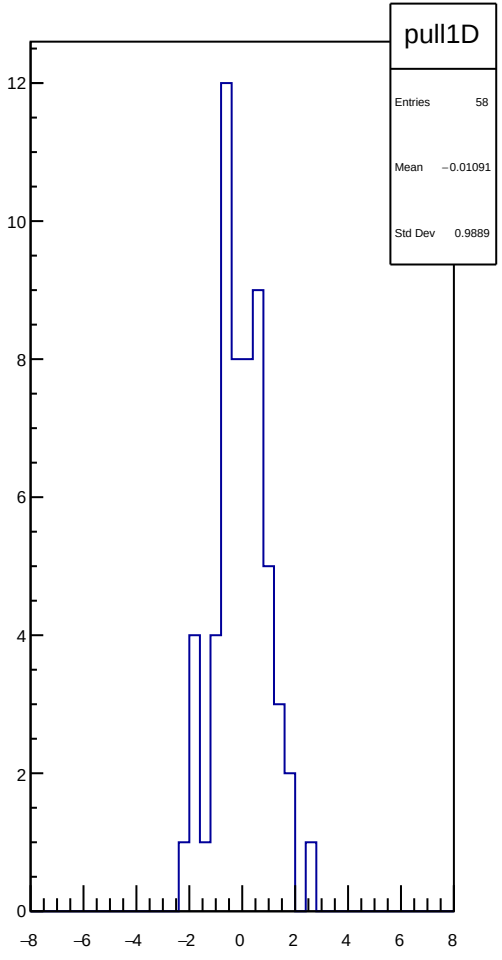

cor_sam4_rms vs run
χ² / ndf 1.875e+04 / 57
p0 4514 ± 4.366
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

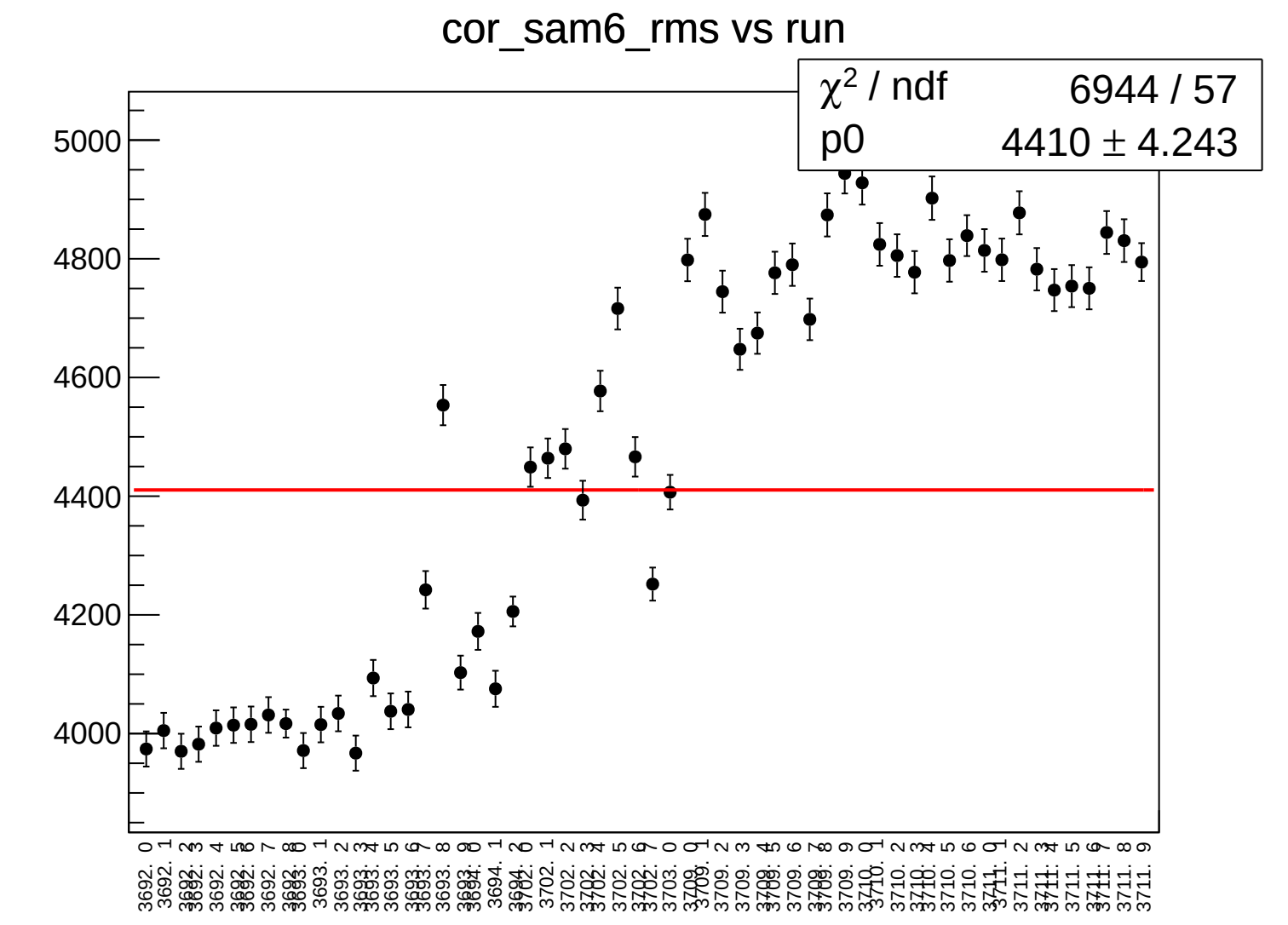

cor_sam5_mean vs run
χ^2 / ndf 56.61 / 57
p0 3381 ± 1535
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 58
Mean 46.22
Std Dev 46.63
2
1
0
−1
−2
−3

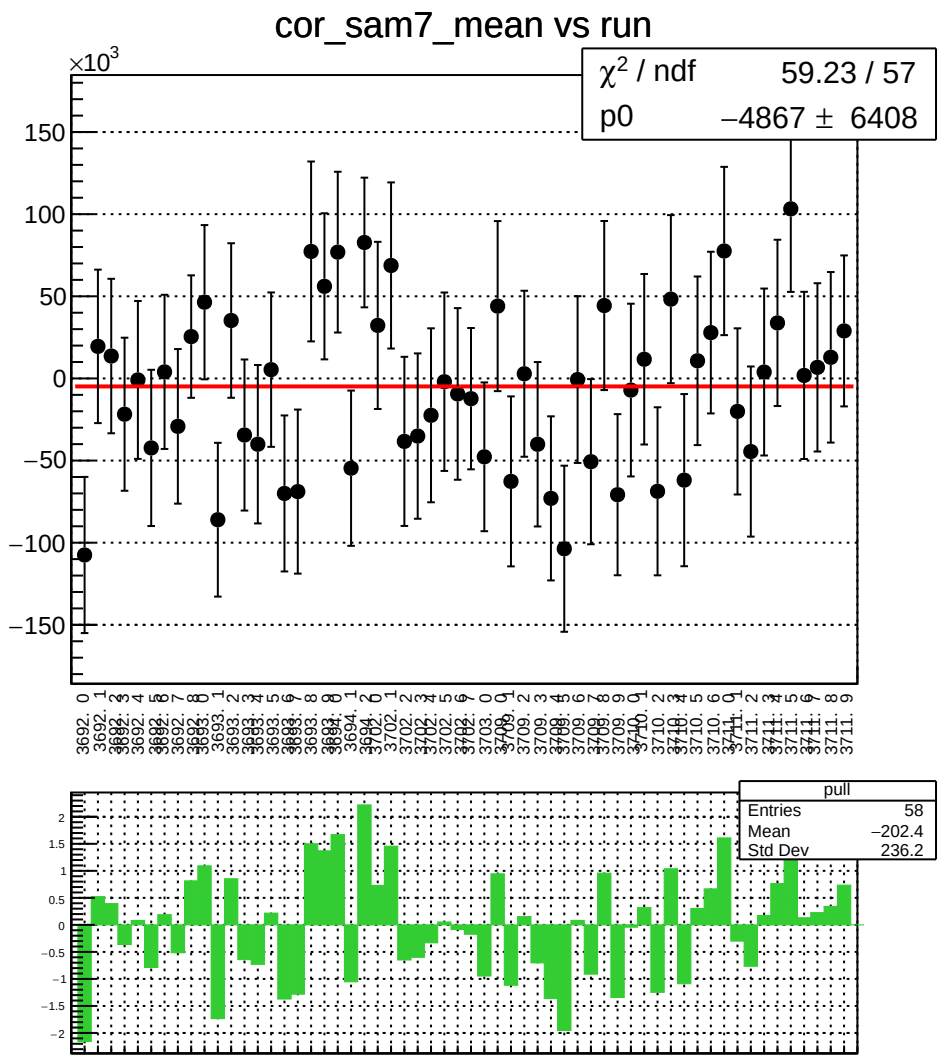

pull1D
Entries 58
Mean −0.01164
Std Dev 0.9879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

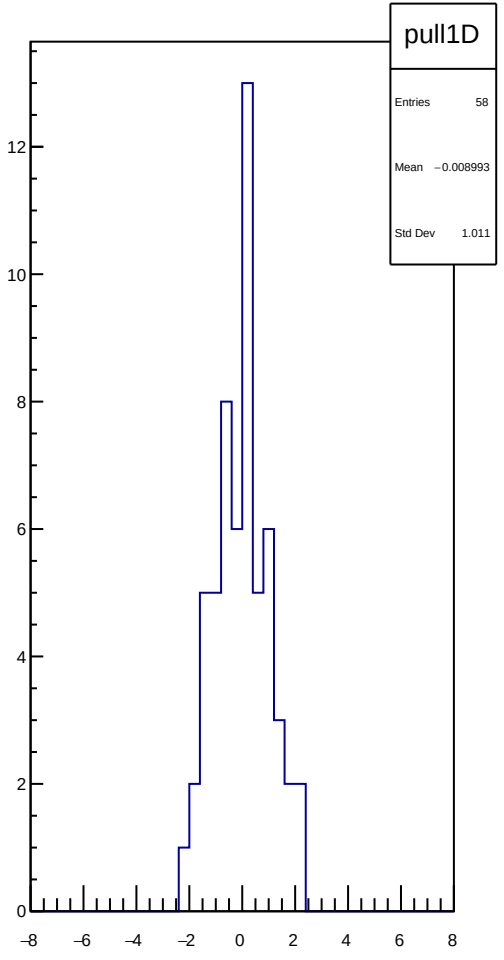

cor_sam5_rms vs run
χ² / ndf 3811 / 57
p0 1130 ± 1.086
1300
1250
1200
1150
1100
1050
1000

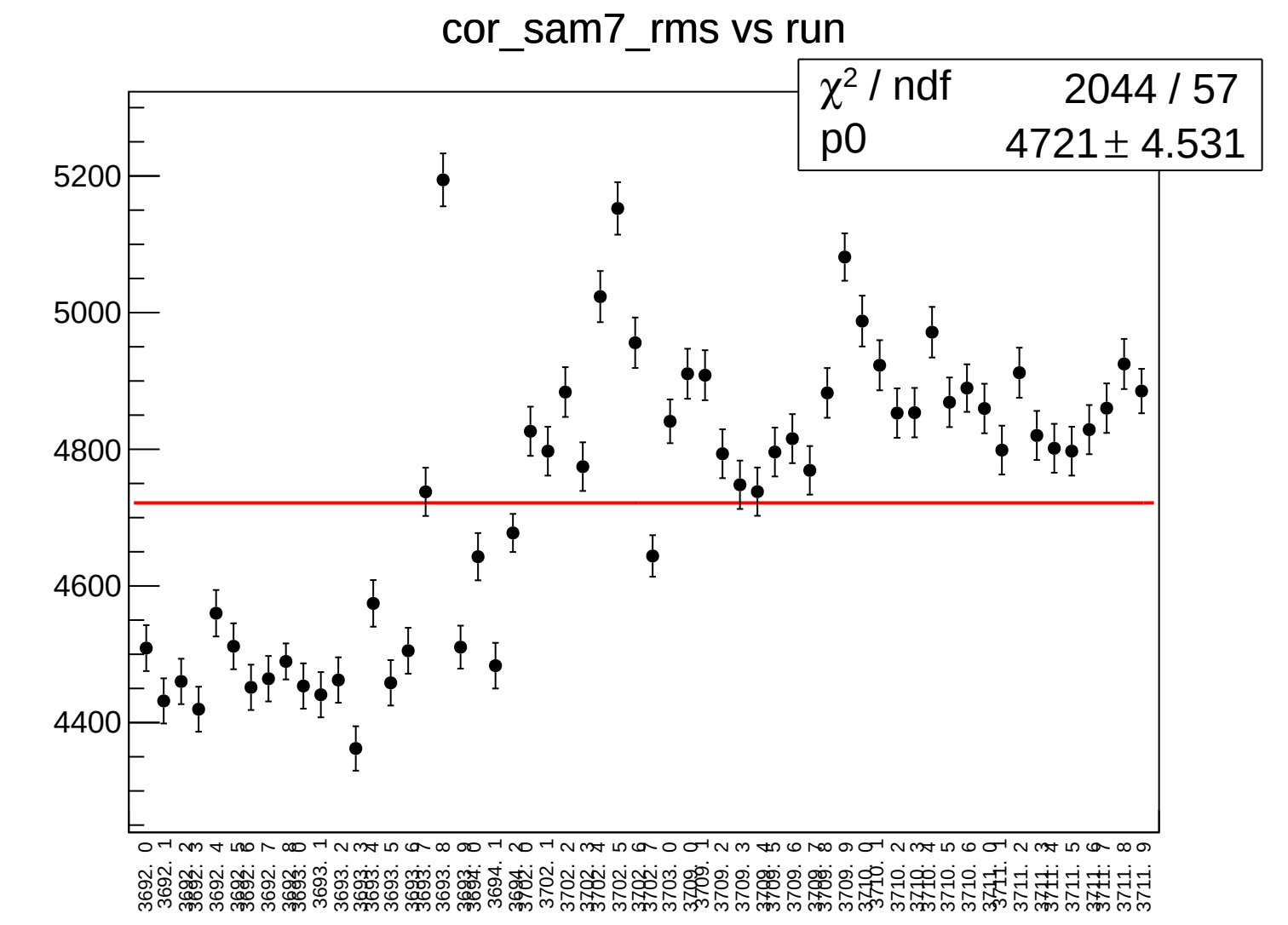

cor_sam6_mean vs run
×10^3
χ² / ndf 56.73 / 57
p0 −508.2 ± 6000
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −156.5
Std Dev 189
3
2
1
0
−1
−2

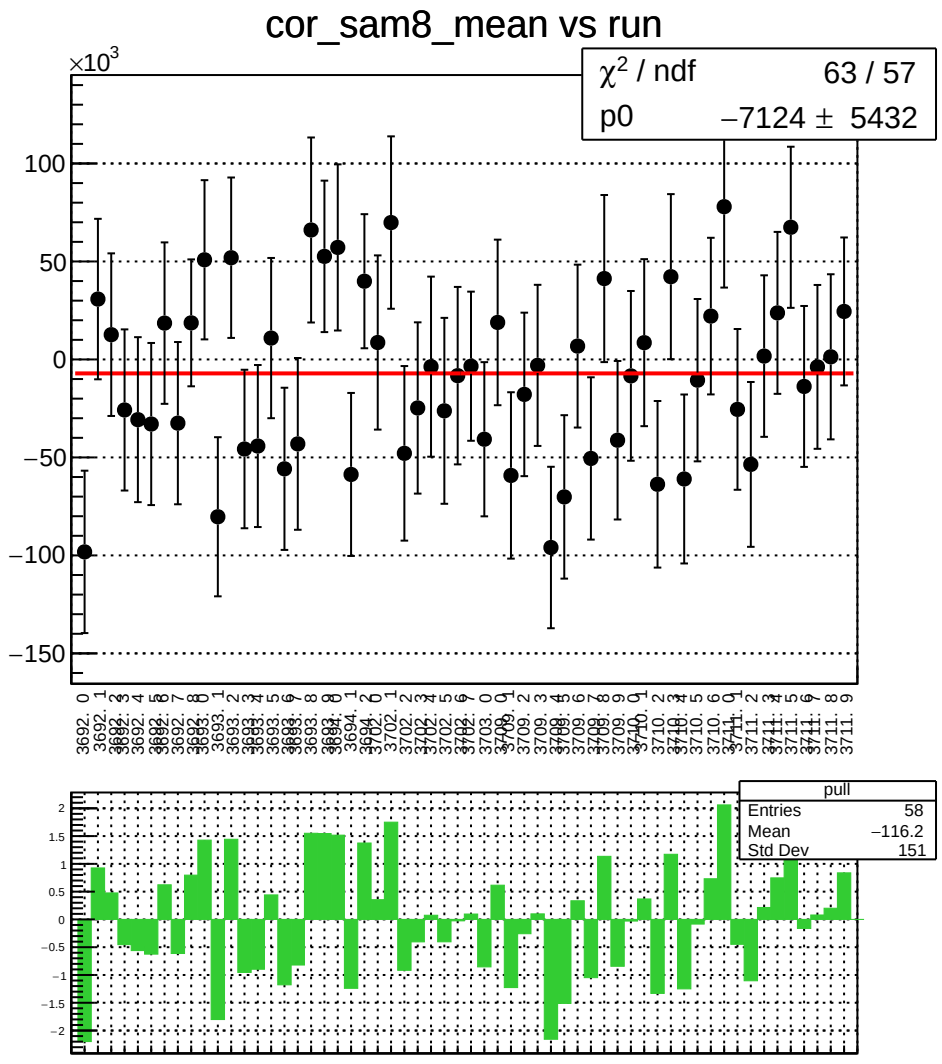

pull1D
Entries 58
Mean −0.01091
Std Dev 0.9889
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

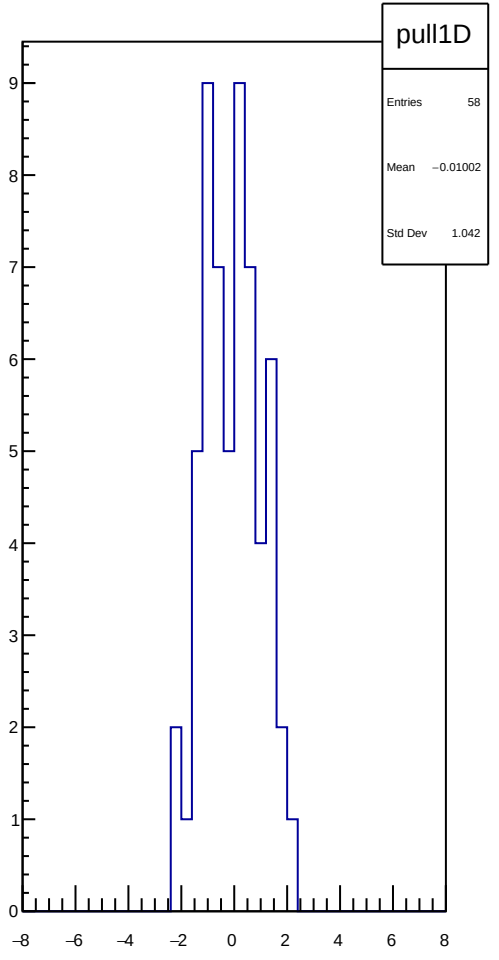

cor_sam6_rms vs run
χ² / ndf 6944 / 57
p0 4410 ± 4.243
5000
4800
4600
4400
4200
4000

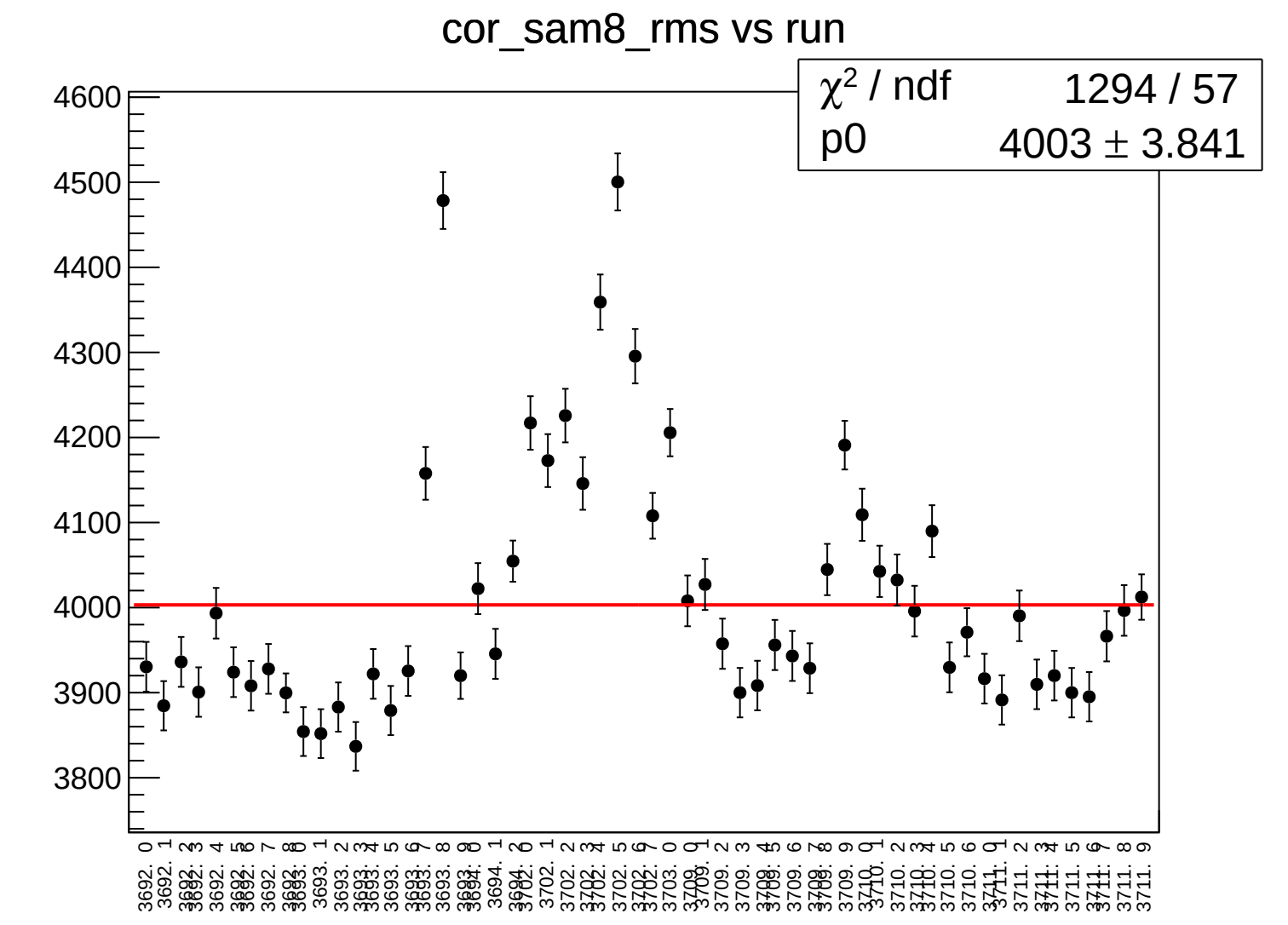

cor_sam7_mean vs run
×10^3
χ² / ndf 59.23 / 57
p0 −4867 ± 6408
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −202.4
Std Dev 236.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

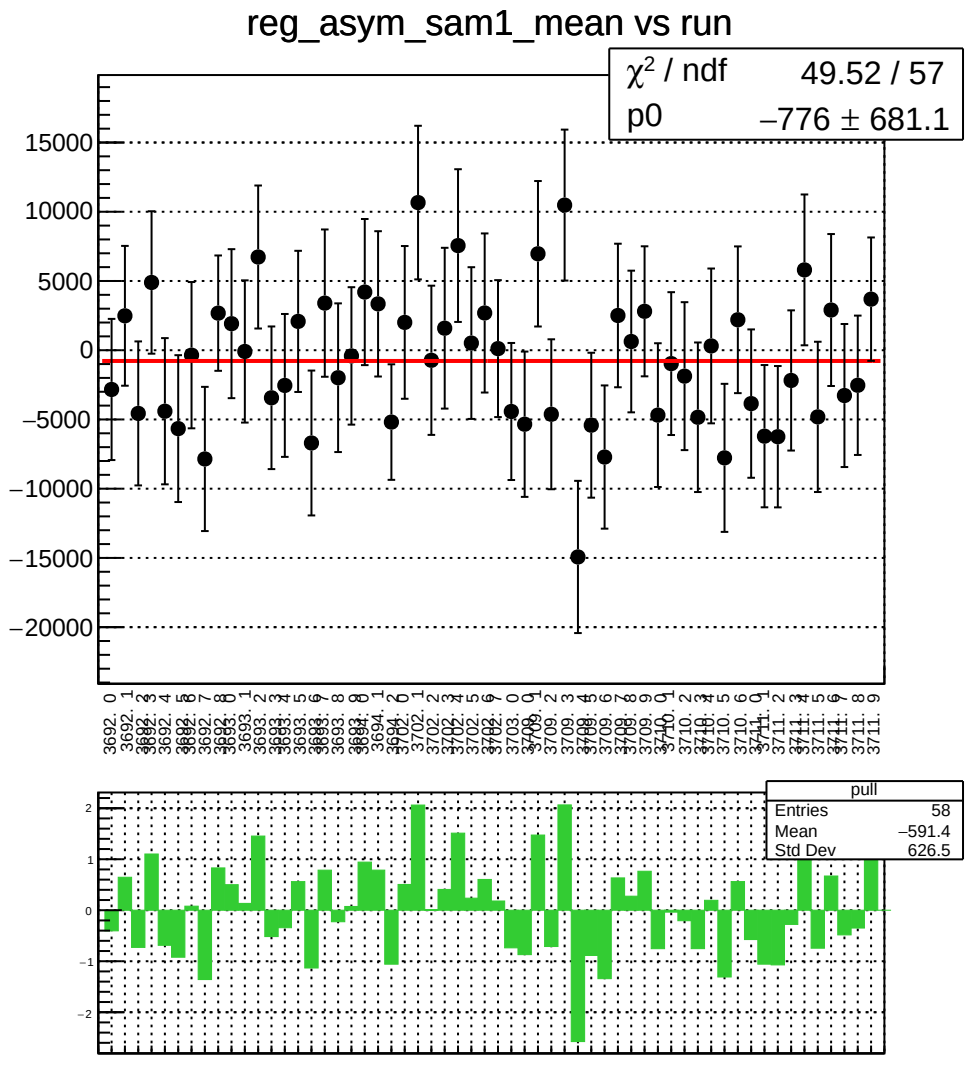

pull1D
Entries 58
Mean −0.008993
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

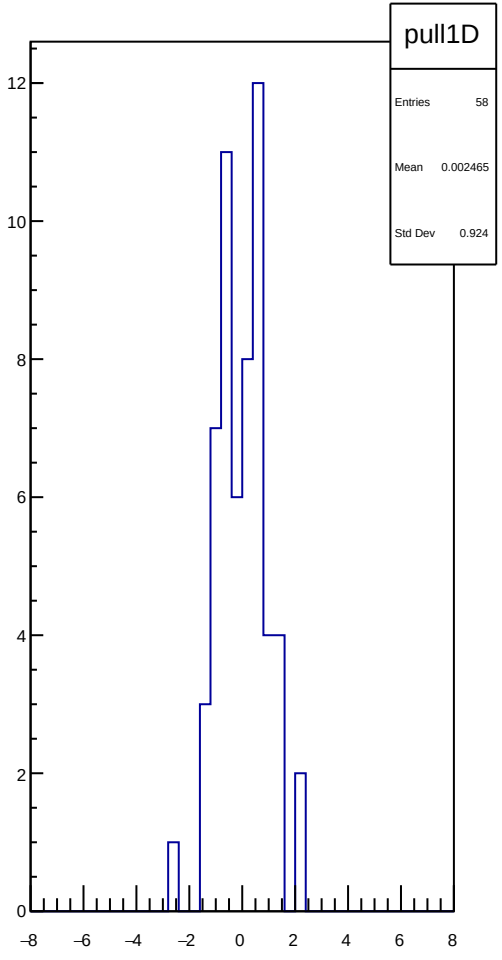

cor_sam7_rms vs run
χ² / ndf 2044 / 57
p0 4721 ± 4.531
5200
5000
4800
4600
4400

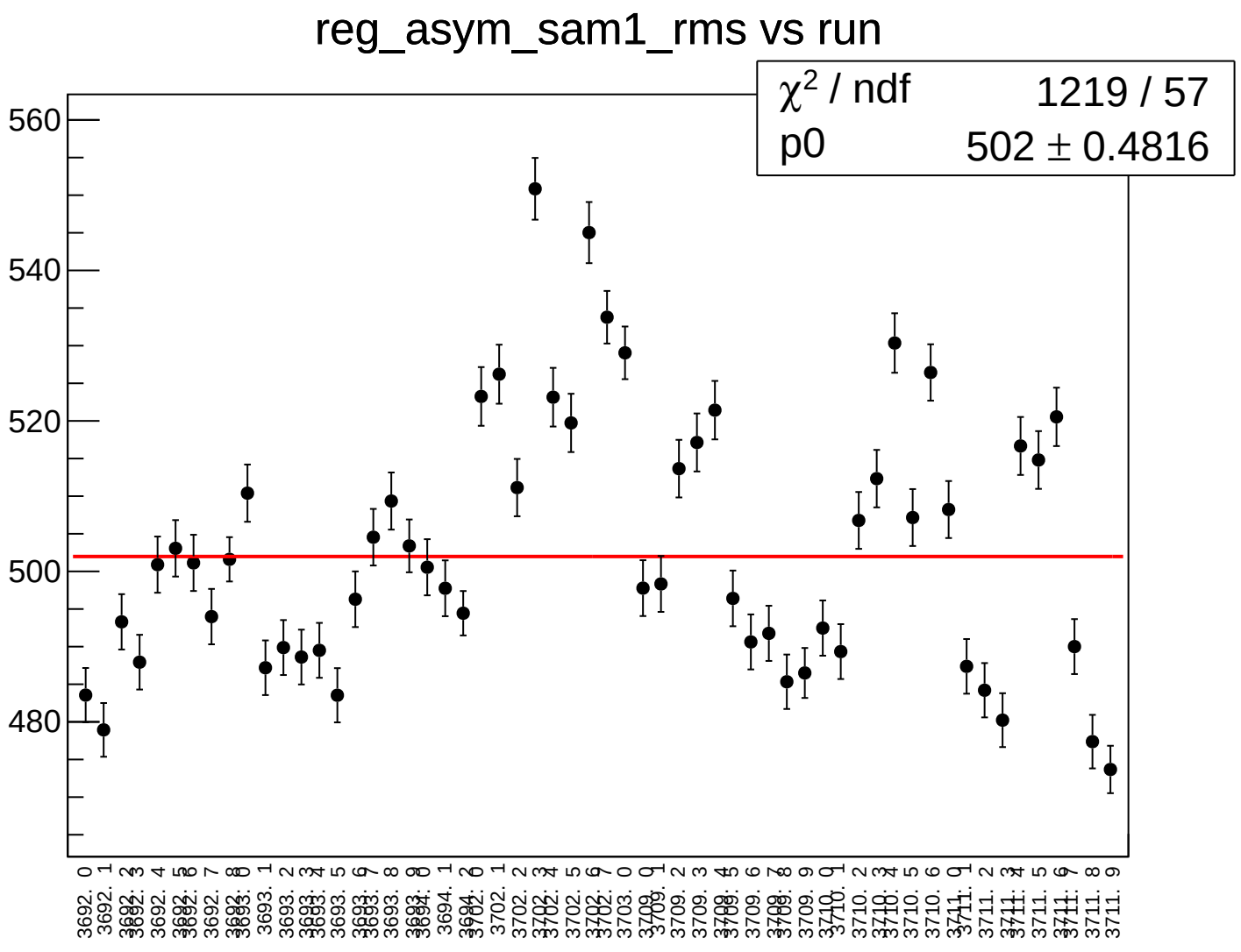

cor_sam8_mean vs run
×10^3
χ² / ndf 63 / 57
p0 −7124 ± 5432
100
50
0
−50
−100
−150
pull
Entries 58
Mean −116.2
Std Dev 151
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

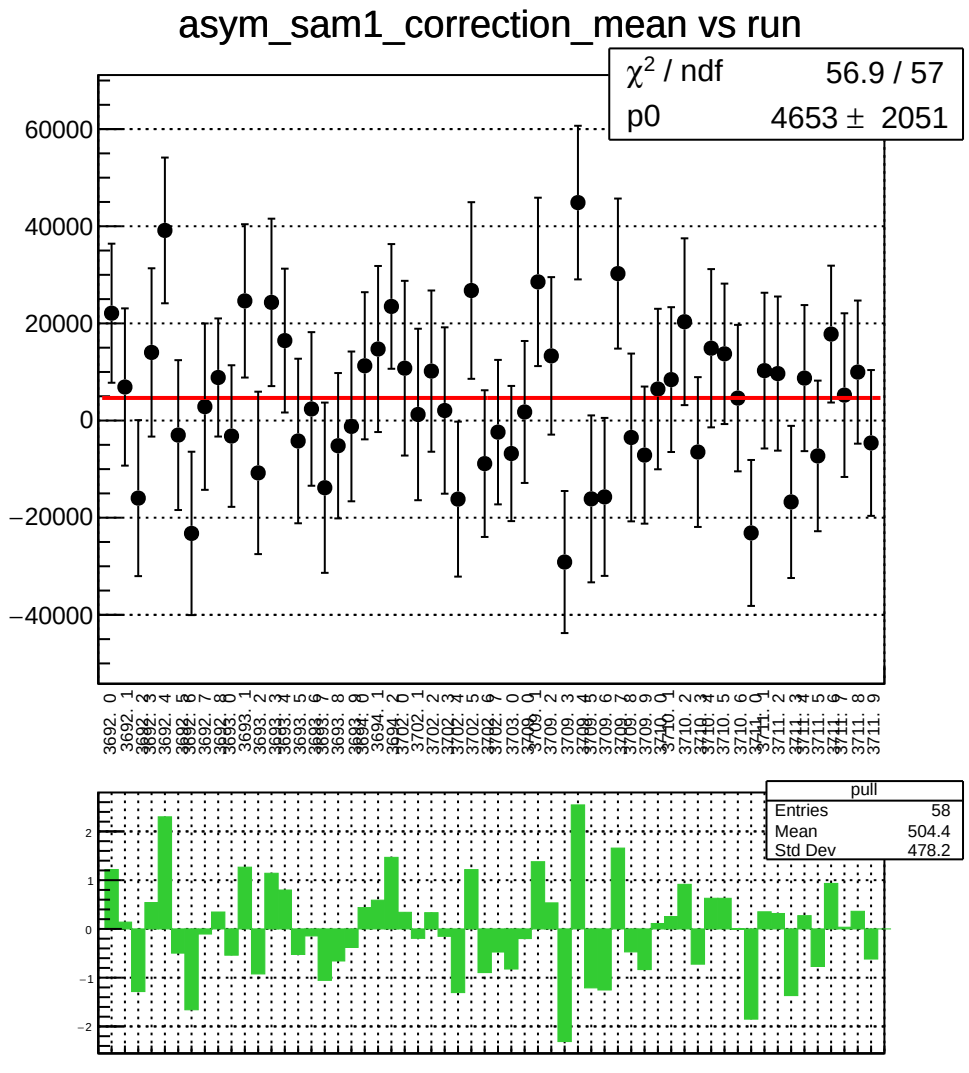

pull1D
Entries 58
Mean −0.01002
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

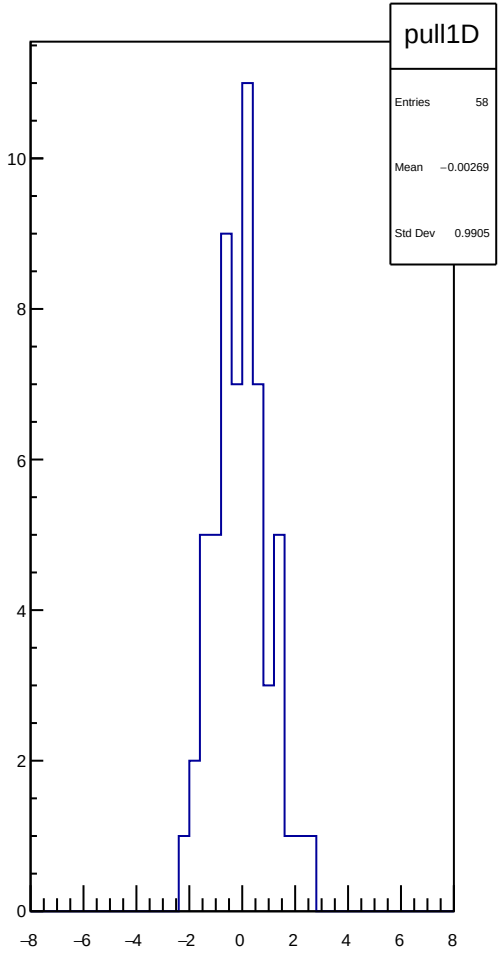

cor_sam8_rms vs run
χ² / ndf 1294 / 57
p0 4003 ± 3.841
4600
4500
4400
4300
4200
4100
4000
3900
3800
3692. 0
3692. 1
3692. 4
3692. 7
3693. 1
3693. 2
3693. 5
3693. 8
3694. 1
3702. 1
3702. 2
3702. 5
3703. 0
3709. 2
3709. 3
3709. 6
3709. 9
3710. 1
3710. 2
3710. 5
3710. 6
3711. 2
3711. 5
3711. 8
3711. 9

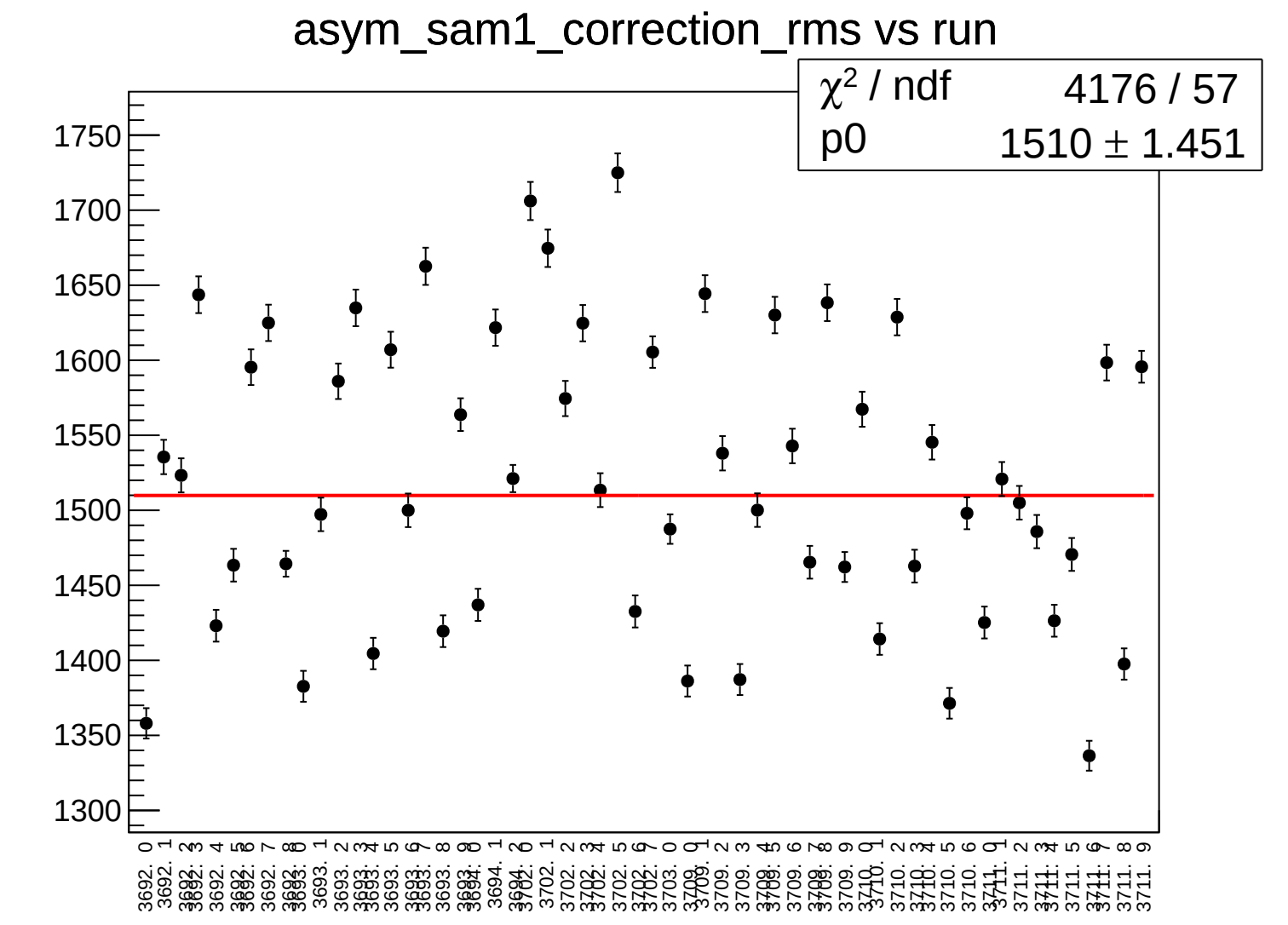

reg_asym_sam1_mean vs run
χ² / ndf 49.52 / 57
p0 −776 ± 681.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 58
Mean −591.4
Std Dev 626.5
2
1
0
−1
−2

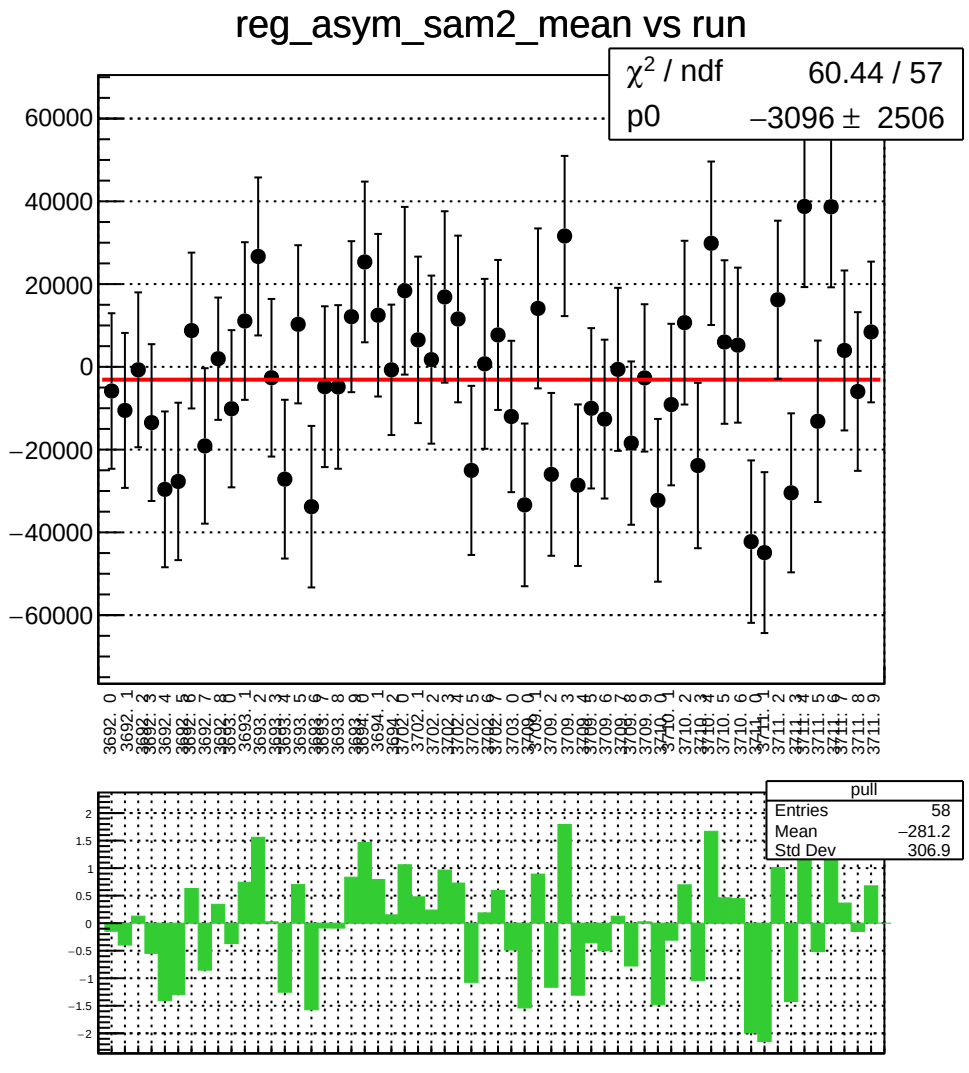

pull1D
Entries 58
Mean 0.002465
Std Dev 0.924
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

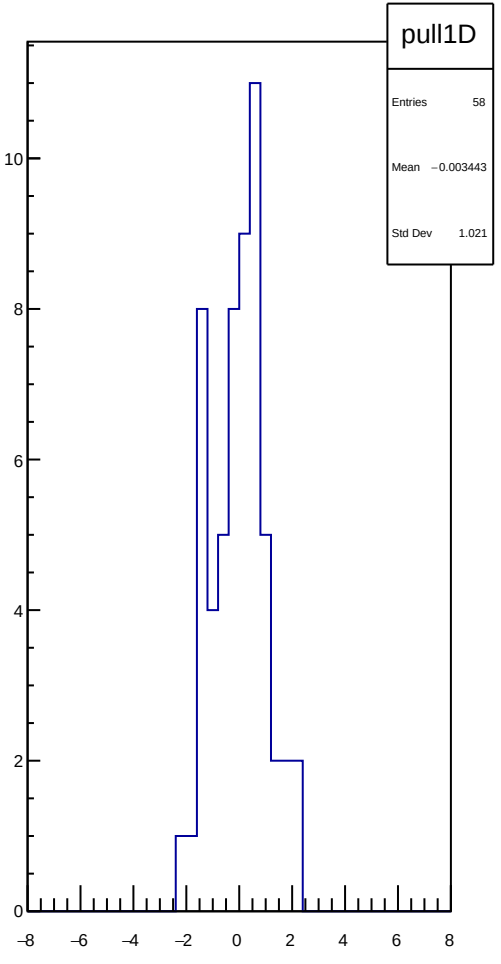

reg_asym_sam1_rms vs run
χ² / ndf 1219 / 57
p0 502 ± 0.4816
560
540
520
500
480

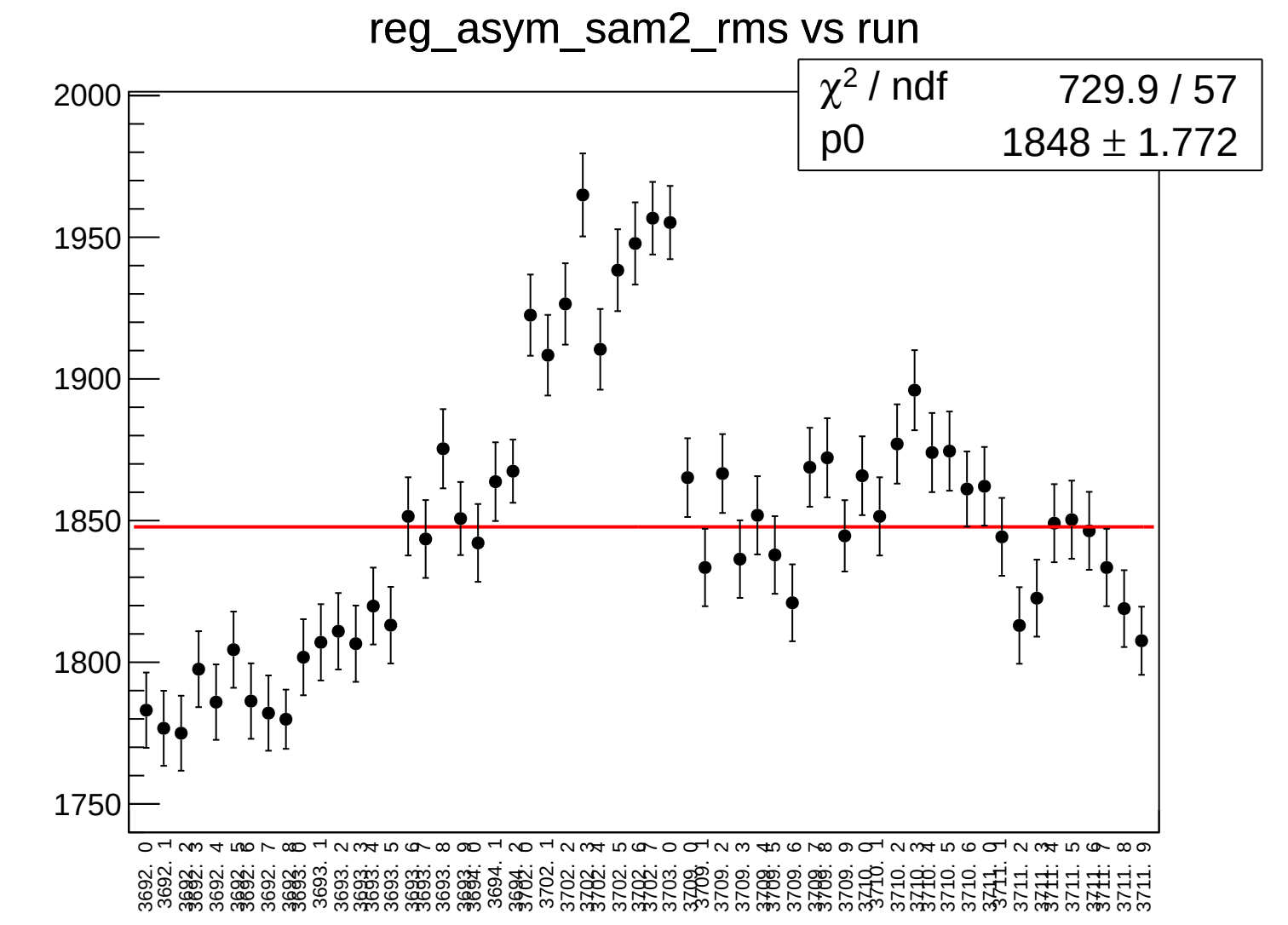

asym_sam1_correction_mean vs run
χ² / ndf 56.9 / 57
p0 4653 ± 2051
60000
40000
20000
0
−20000
−40000
pull
Entries 58
Mean 504.4
Std Dev 478.2
2
1
0
−1
−2

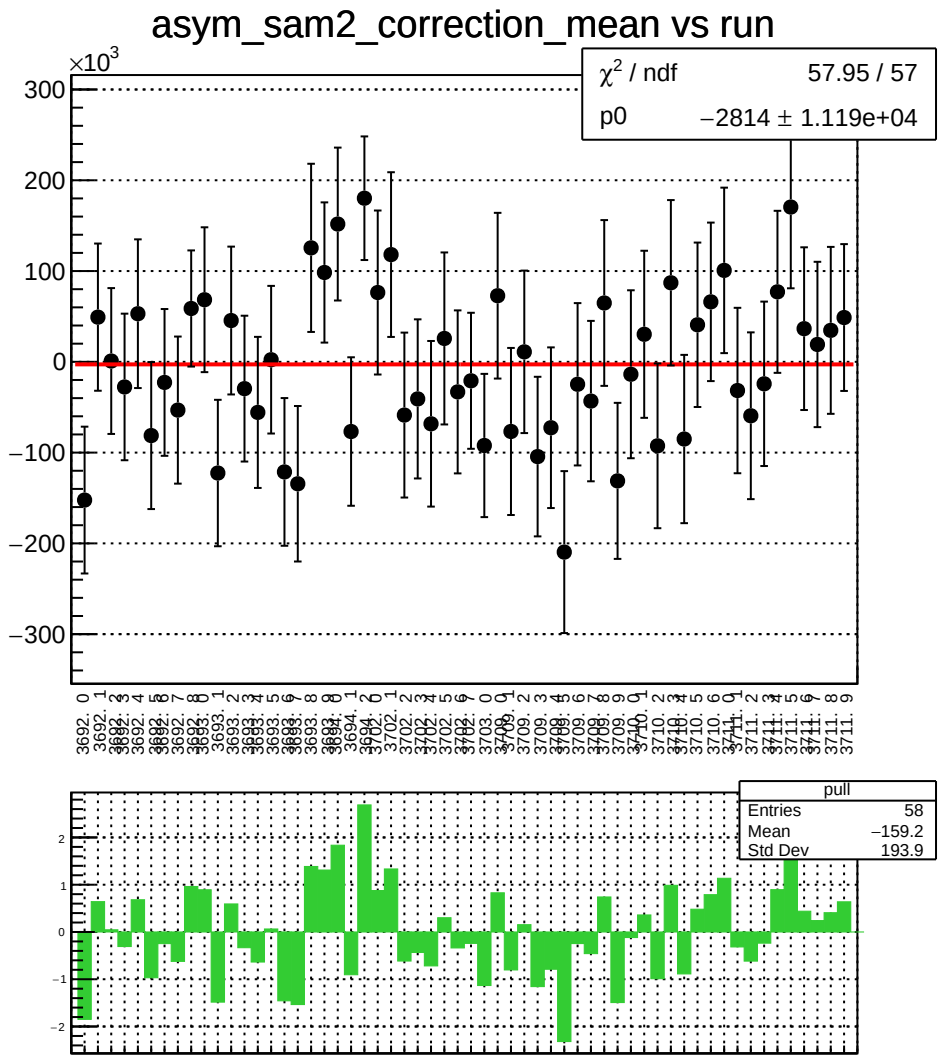

pull1D
Entries 58
Mean −0.00269
Std Dev 0.9905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

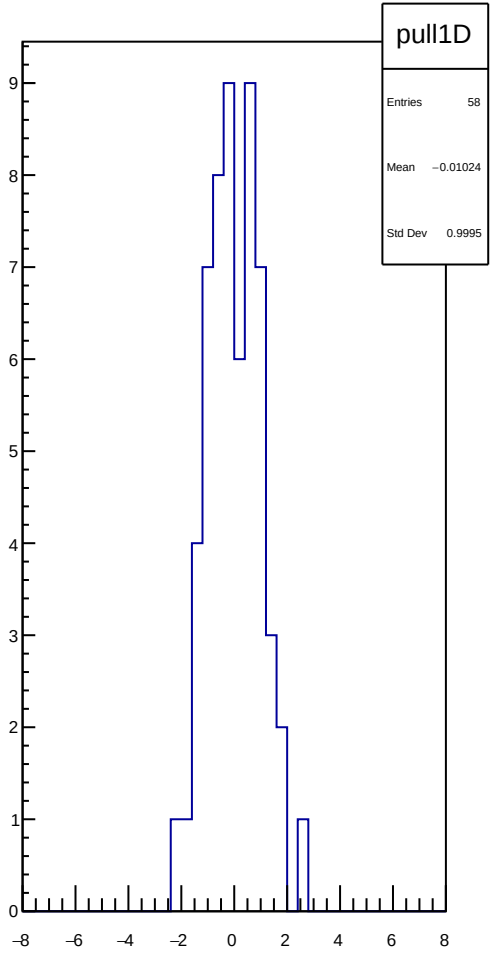

asym_sam1_correction_rms vs run
χ² / ndf 4176 / 57
p0 1510 ± 1.451
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

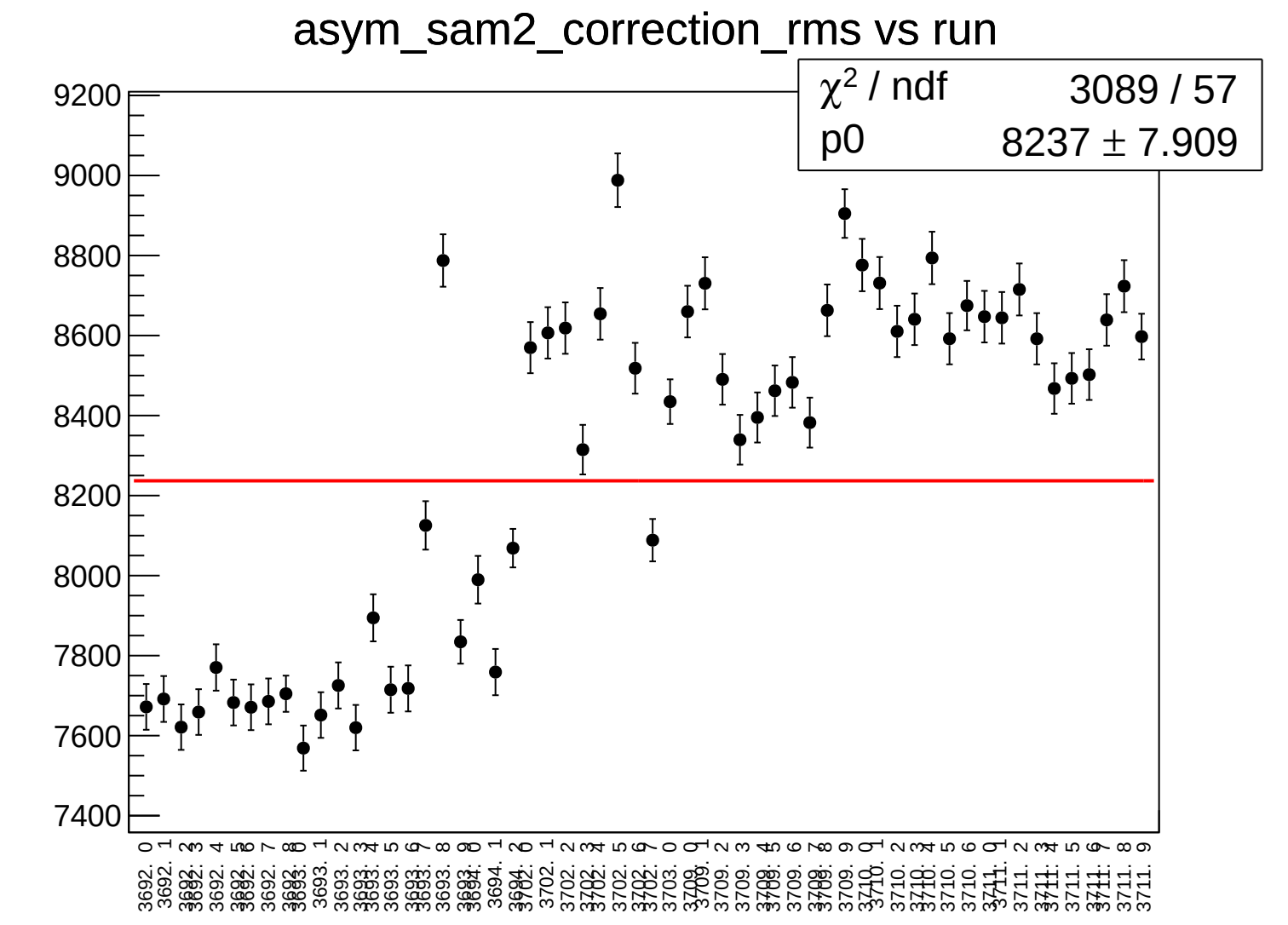

reg_asym_sam2_mean vs run
χ² / ndf 60.44 / 57
p0 −3096 ± 2506
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 58
Mean −281.2
Std Dev 306.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

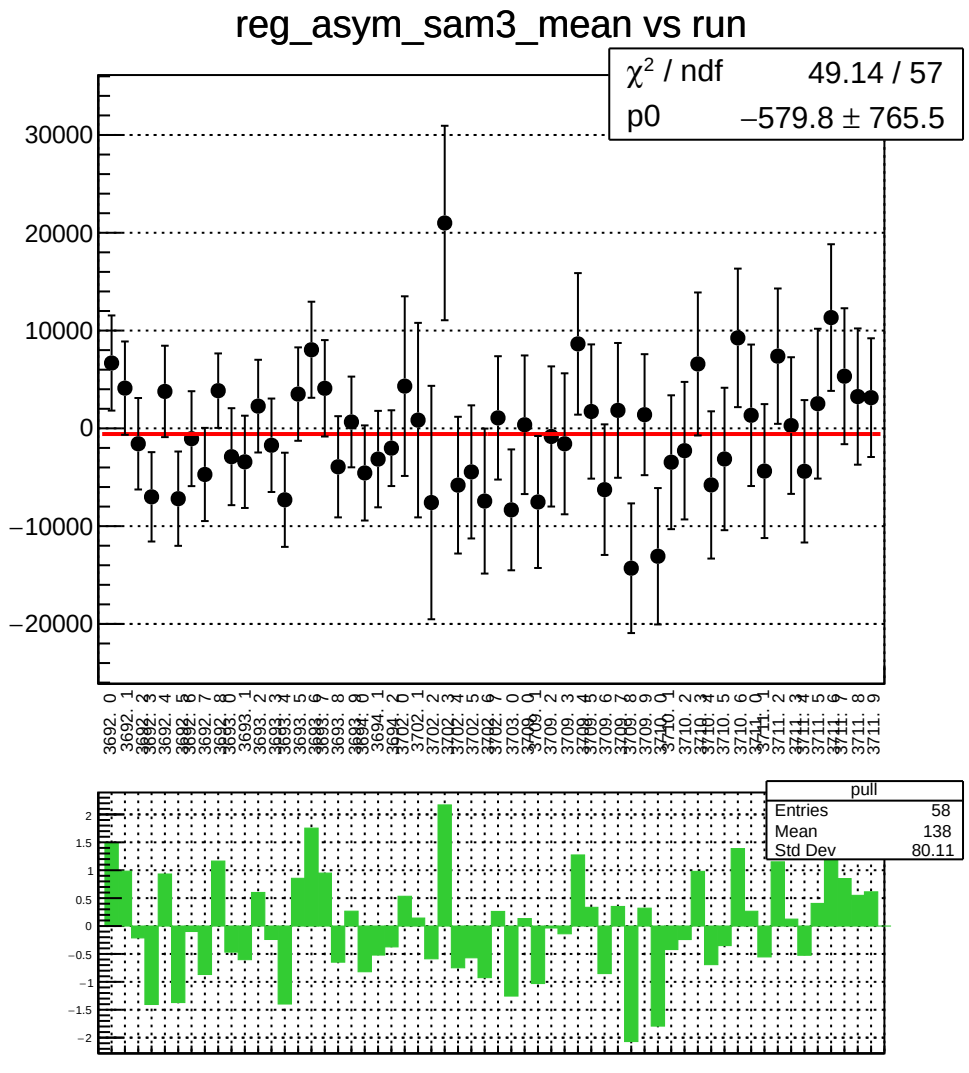

pull1D
Entries 58
Mean −0.003443
Std Dev 1.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

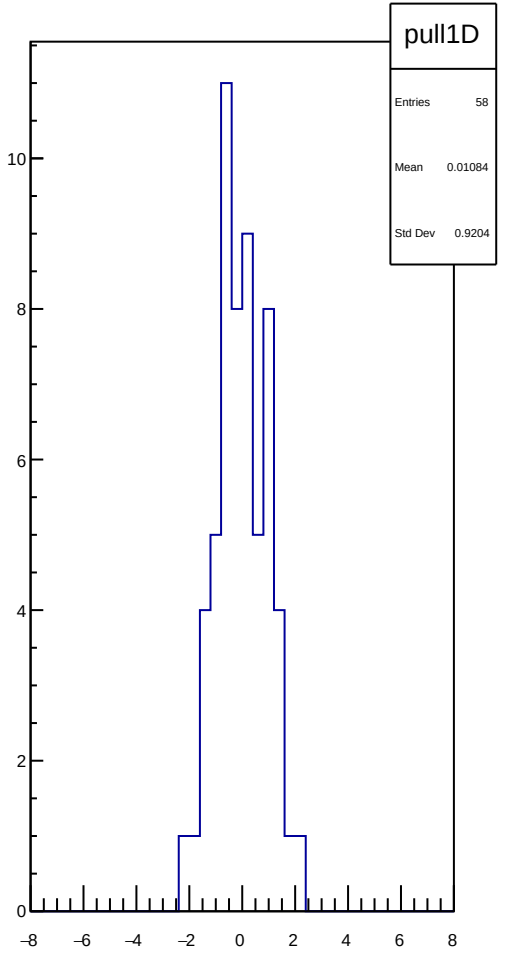

reg_asym_sam2_rms vs run
χ² / ndf 729.9 / 57
p0 1848 ± 1.772
2000
1950
1900
1850
1800
1750

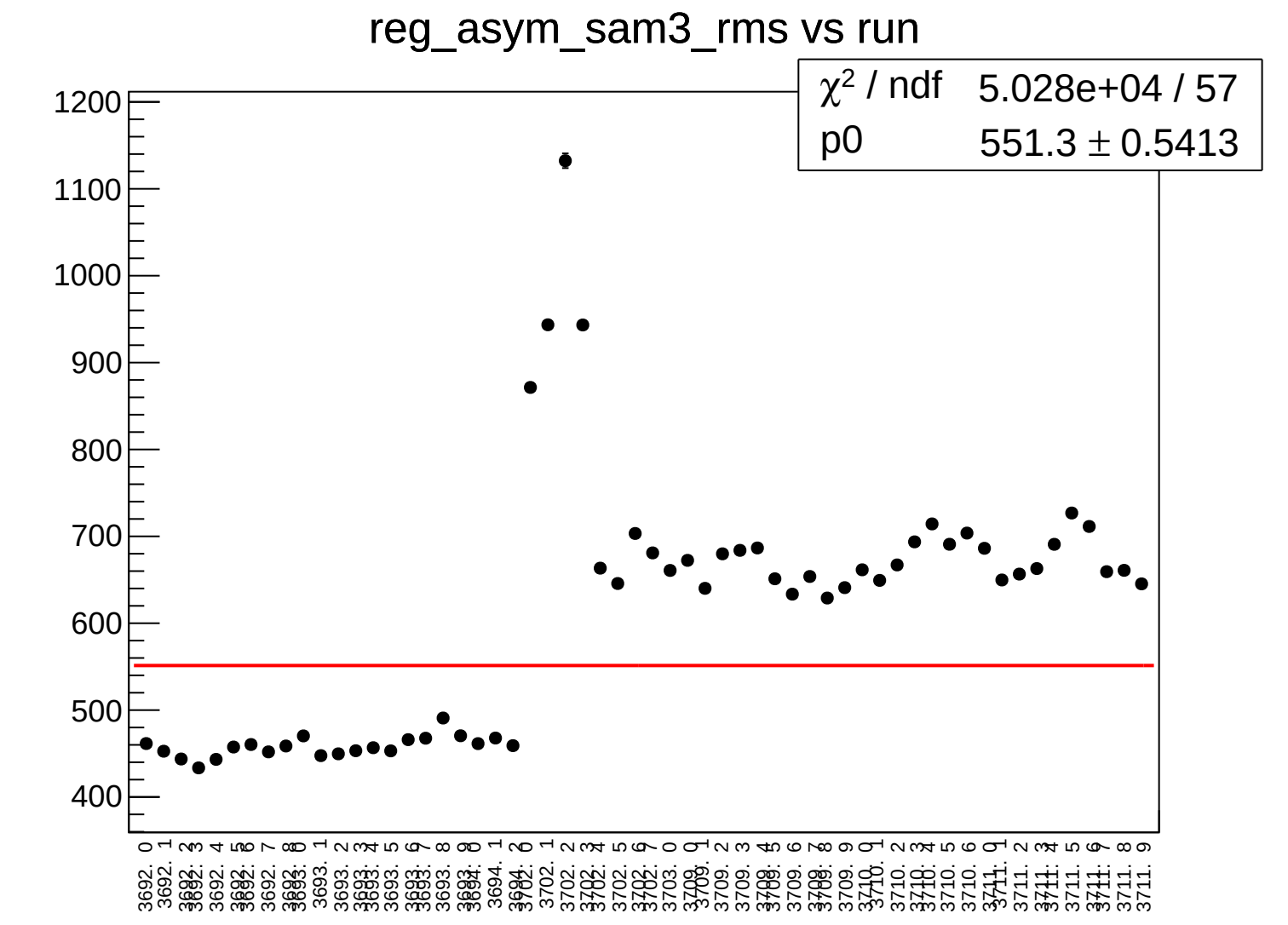

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 57.95 / 57
p0 −2814 ± 1.119e+04
pull
Entries 58
Mean −159.2
Std Dev 193.9

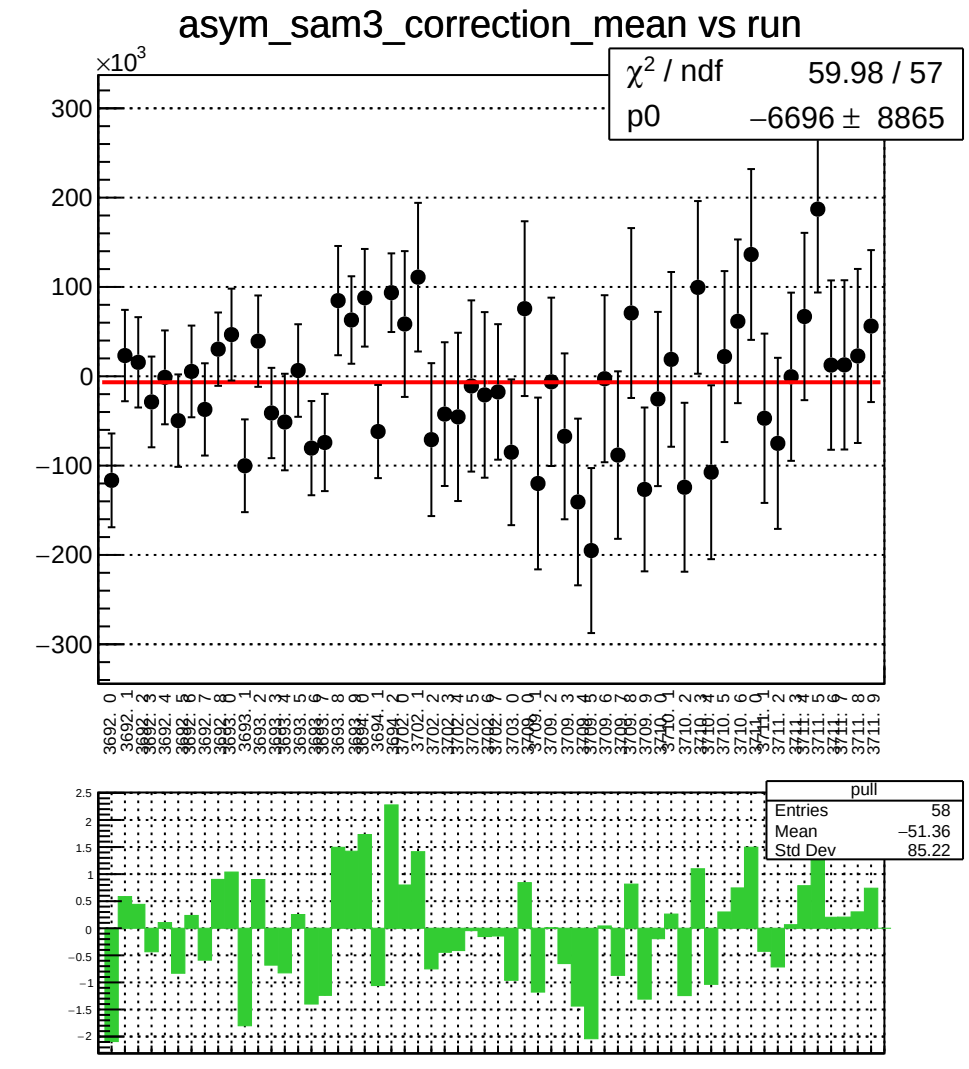

pull1D
Entries 58
Mean −0.01024
Std Dev 0.9995

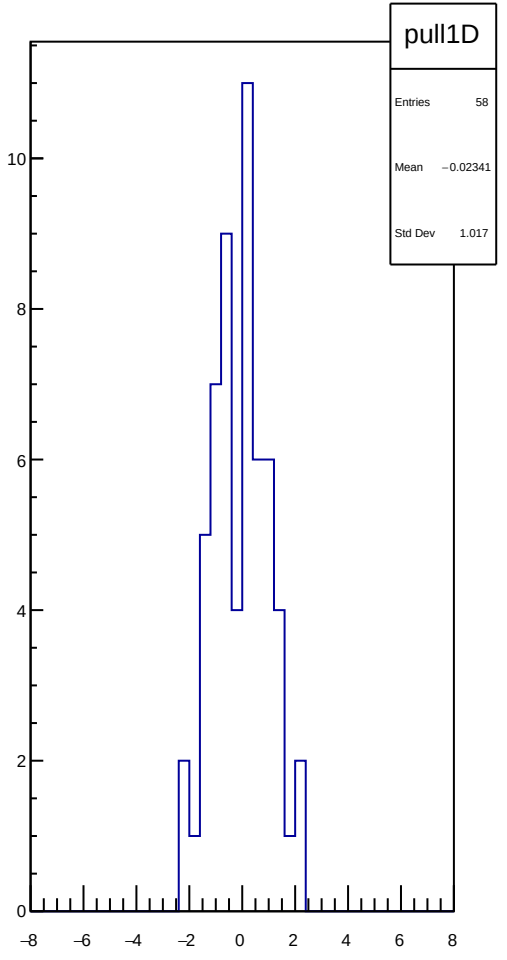

asym_sam2_correction_rms vs run
χ² / ndf 3089 / 57
p0 8237 ± 7.909
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

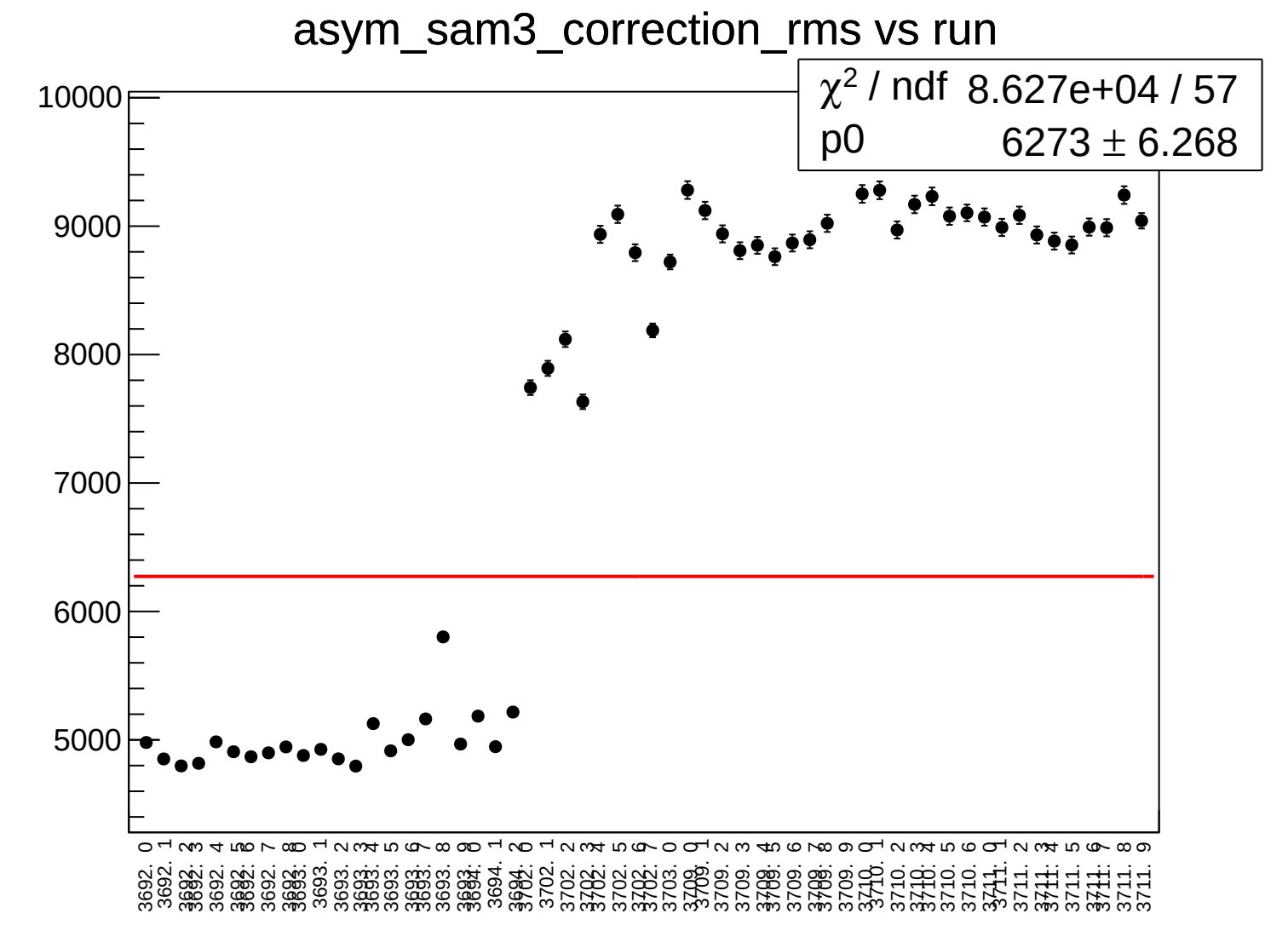

reg_asym_sam3_mean vs run
χ² / ndf 49.14 / 57
p0 −579.8 ± 765.5
pull
Entries 58
Mean 138
Std Dev 80.11

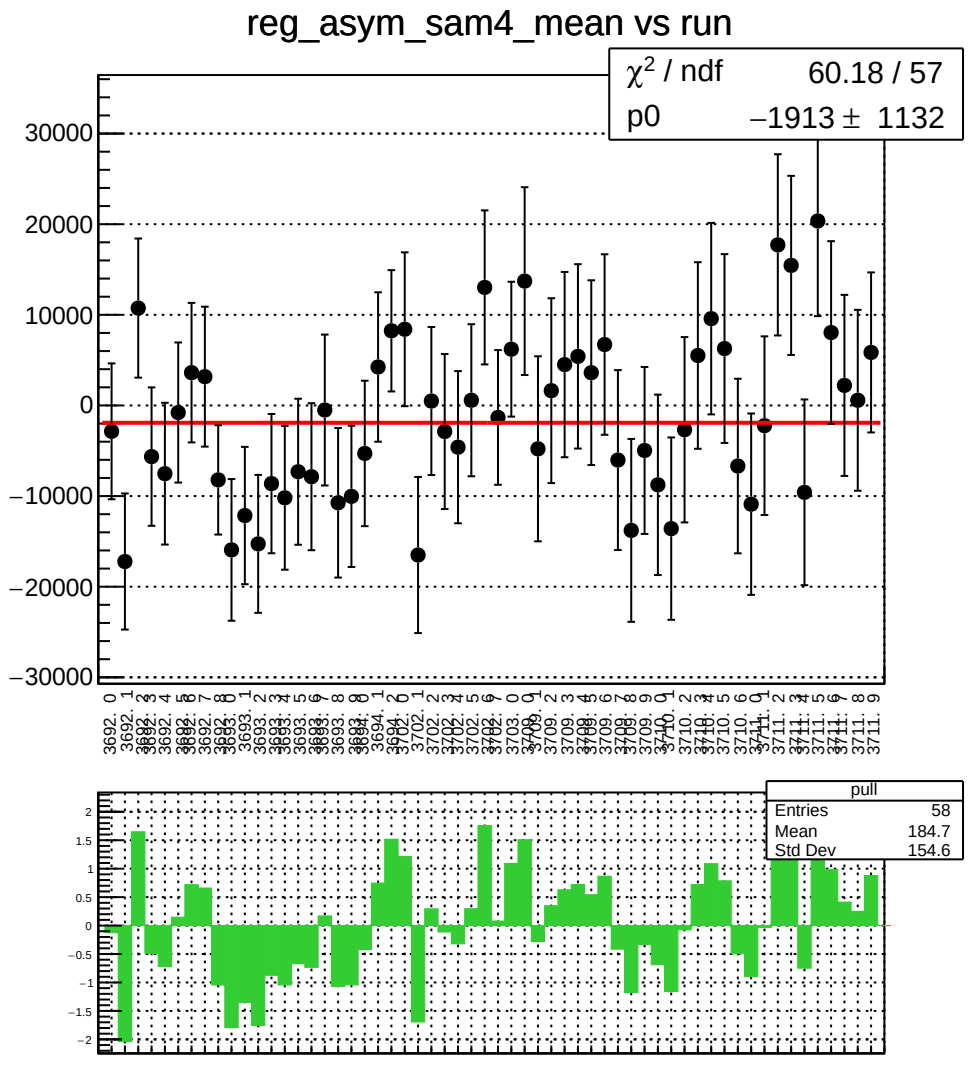

pull1D
Entries 58
Mean 0.01084
Std Dev 0.9204

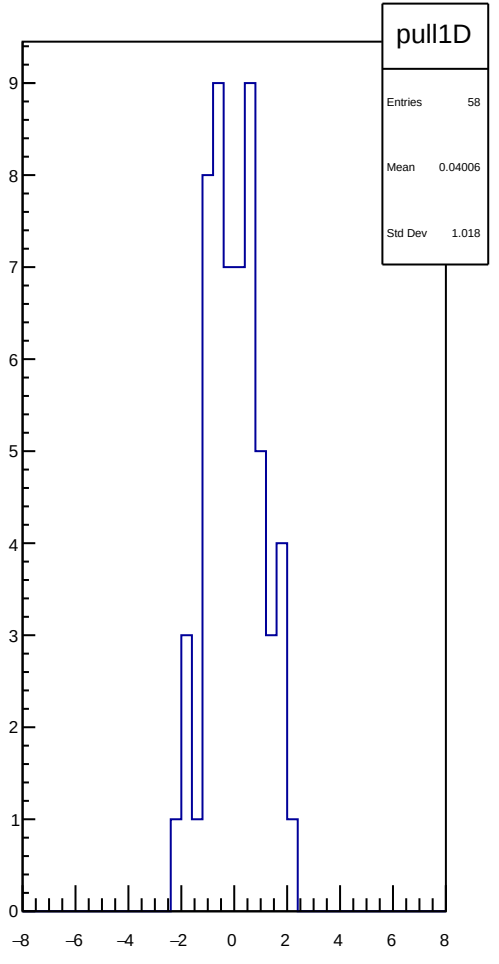

reg_asym_sam3_rms vs run
χ² / ndf 5.028e+04 / 57
p0 551.3 ± 0.5413
1200
1100
1000
900
800
700
600
500
400
3692. 0
3692. 1
3692. 2
3692. 3
3692. 4
3692. 5
3692. 6
3692. 7
3693. 1
3693. 2
3693. 3
3693. 4
3693. 5
3693. 6
3693. 7
3693. 8
3694. 1
3702. 1
3702. 2
3702. 3
3702. 4
3702. 5
3702. 6
3702. 7
3703. 0
3709. 1
3709. 2
3709. 3
3709. 4
3709. 5
3709. 6
3709. 7
3709. 8
3709. 9
3710. 1
3710. 2
3710. 3
3710. 4
3710. 5
3710. 6
3711. 1
3711. 2
3711. 3
3711. 4
3711. 5
3711. 6
3711. 7
3711. 8
3711. 9

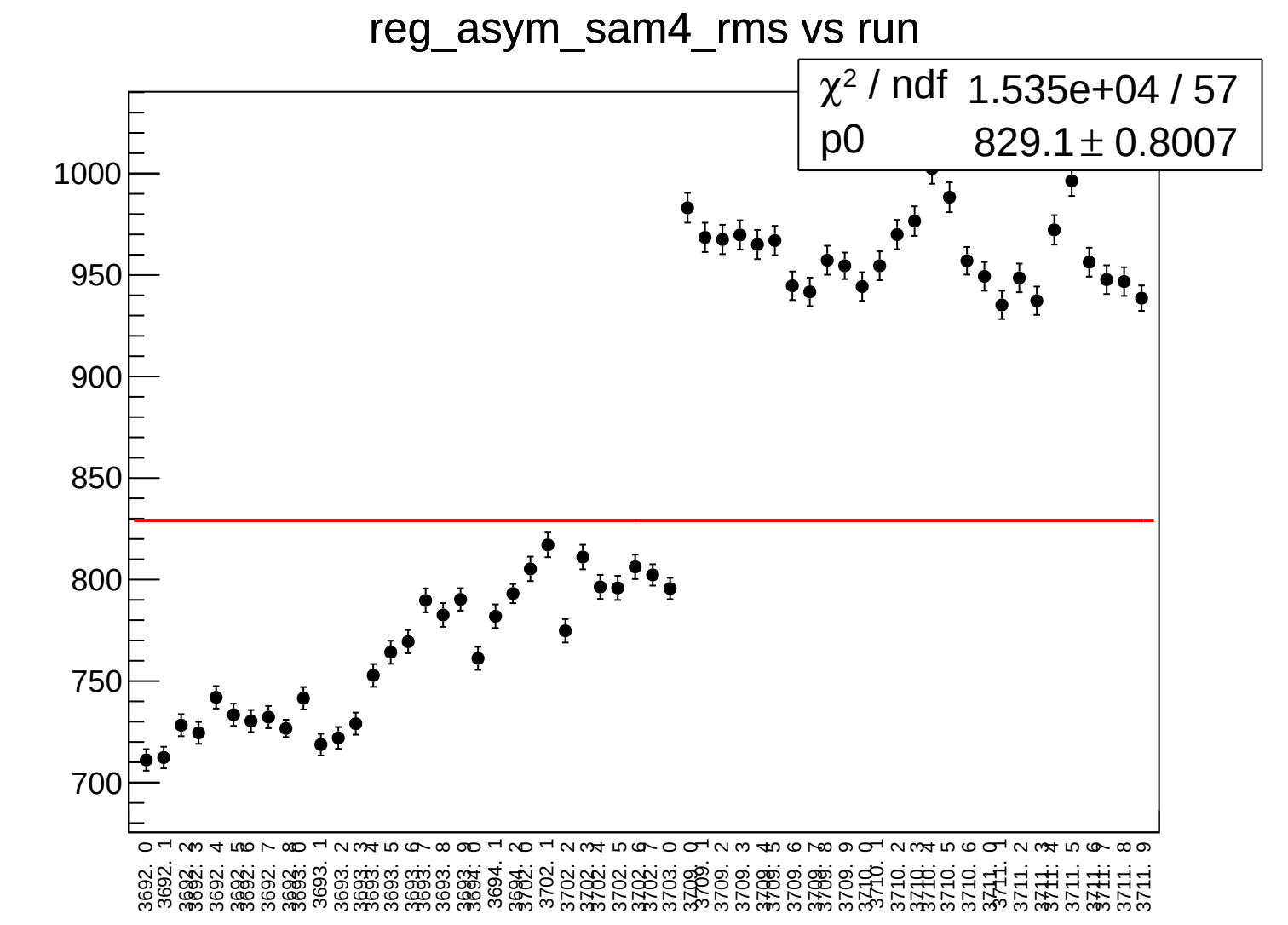

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 59.98 / 57
p0 −6696 ± 8865
300
200
100
0
−100
−200
−300
pull
Entries 58
Mean −51.36
Std Dev 85.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

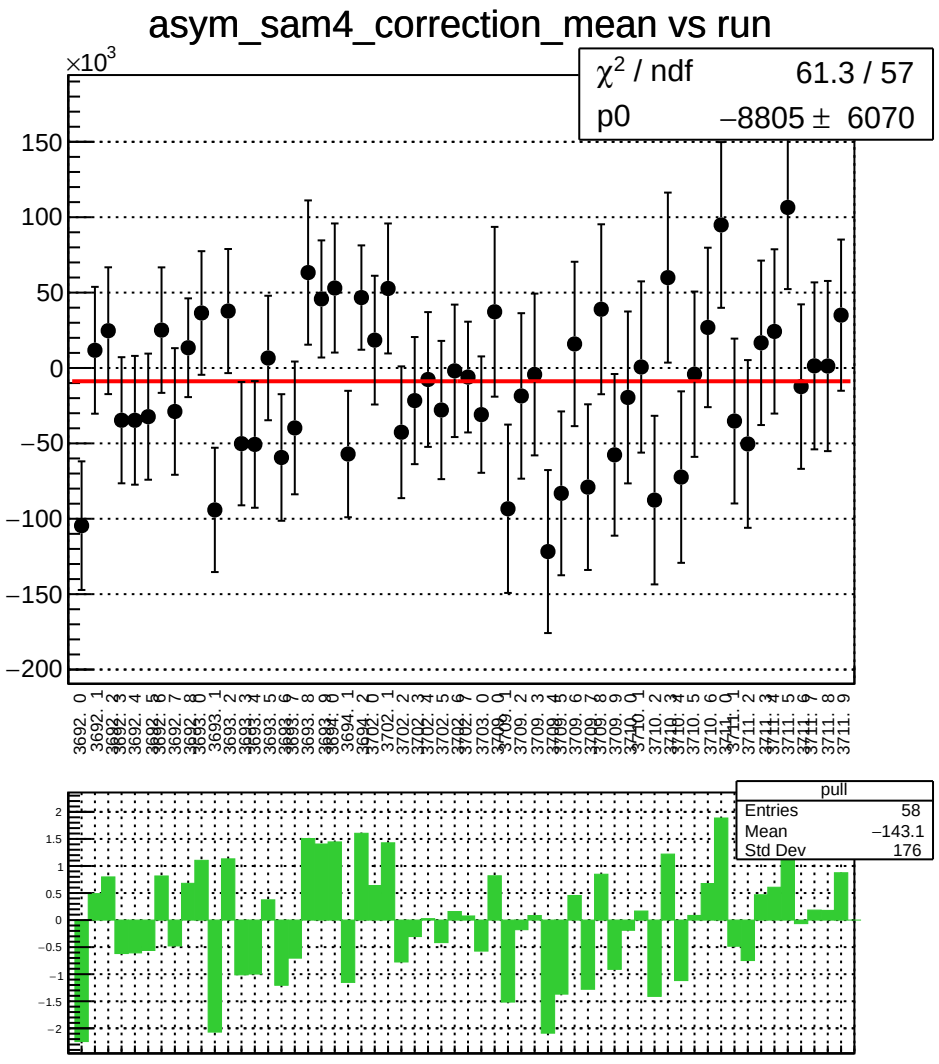

pull1D
Entries 58
Mean −0.02341
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

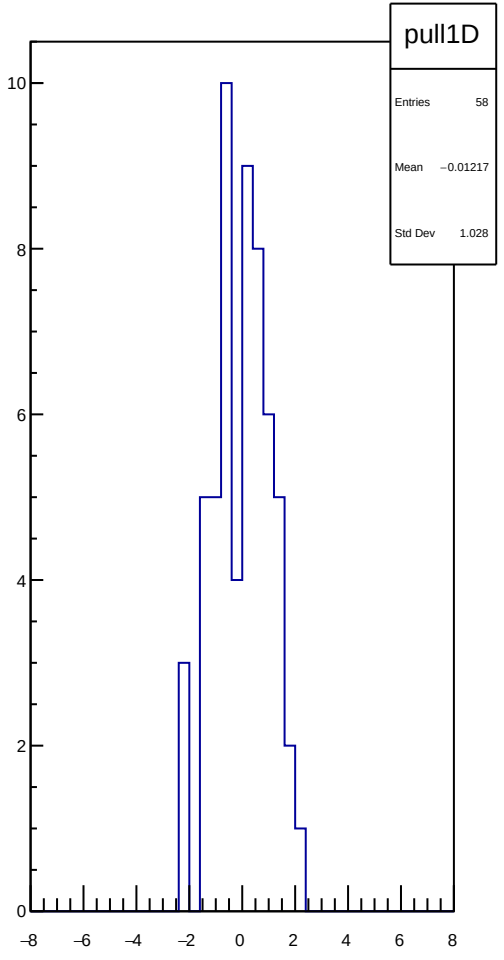

asym_sam3_correction_rms vs run
χ² / ndf 8.627e+04 / 57
p0 6273 ± 6.268
10000
9000
8000
7000
6000
5000

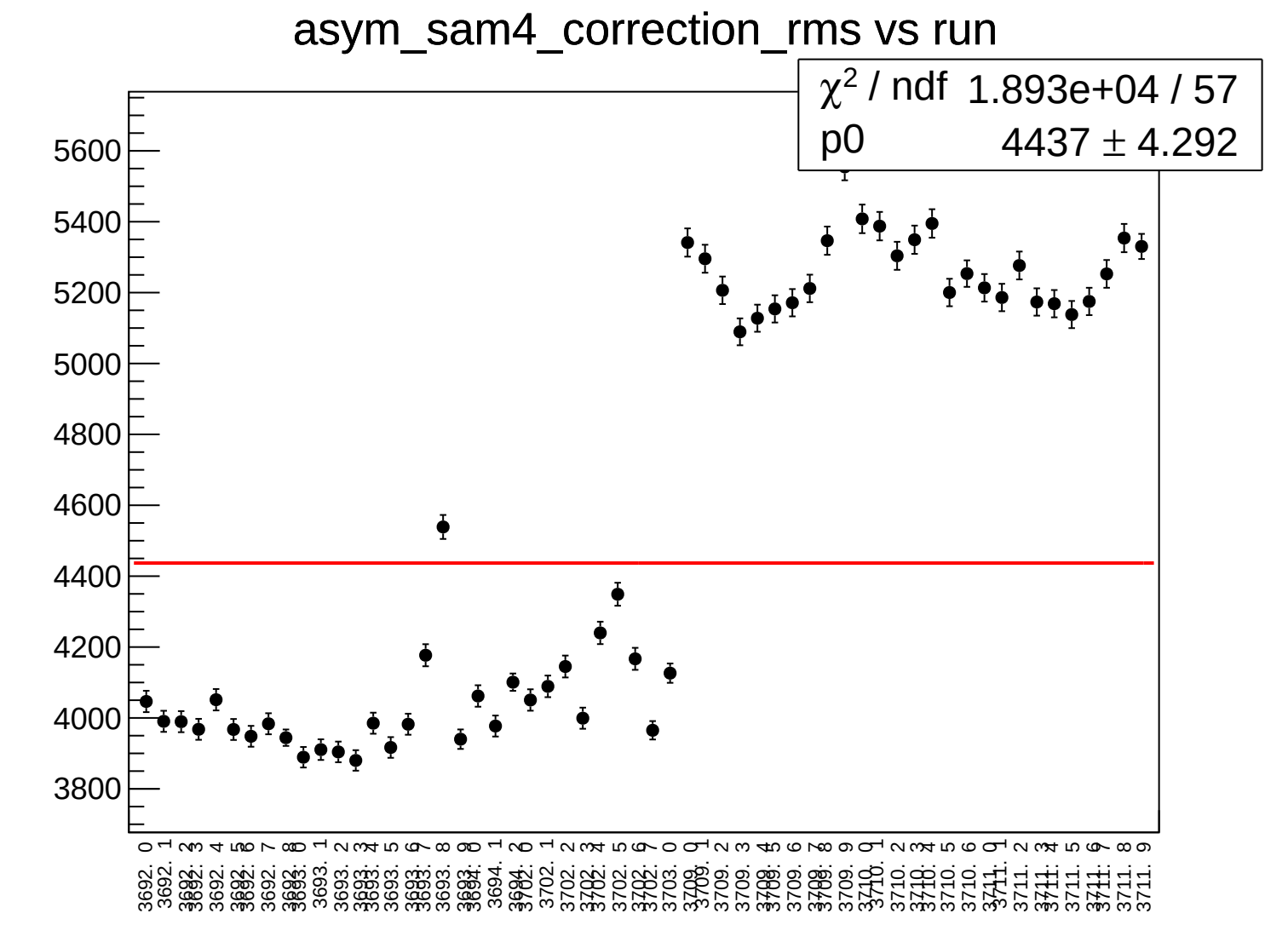

reg_asym_sam4_mean vs run
χ² / ndf 60.18 / 57
p0 −1913 ± 1132
pull
Entries 58
Mean 184.7
Std Dev 154.6

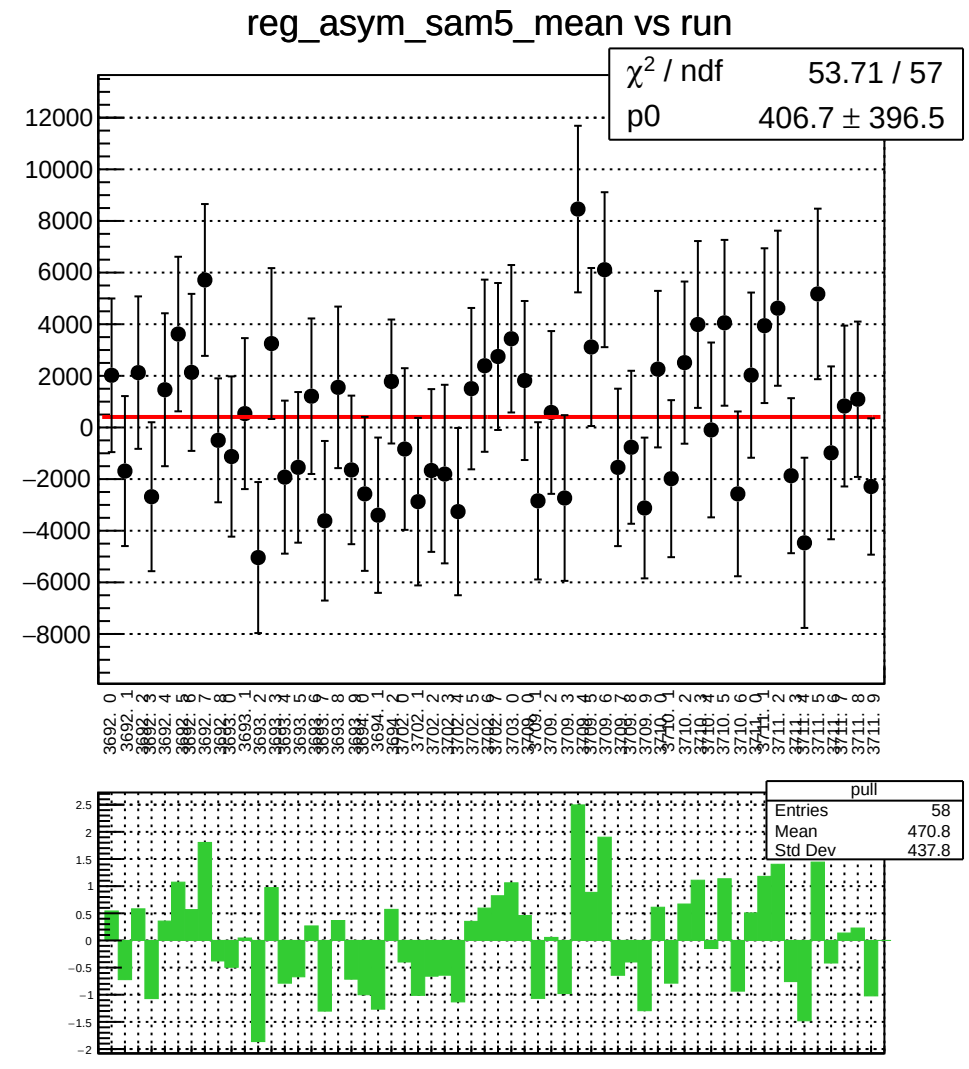

pull1D
Entries 58
Mean 0.04006
Std Dev 1.018

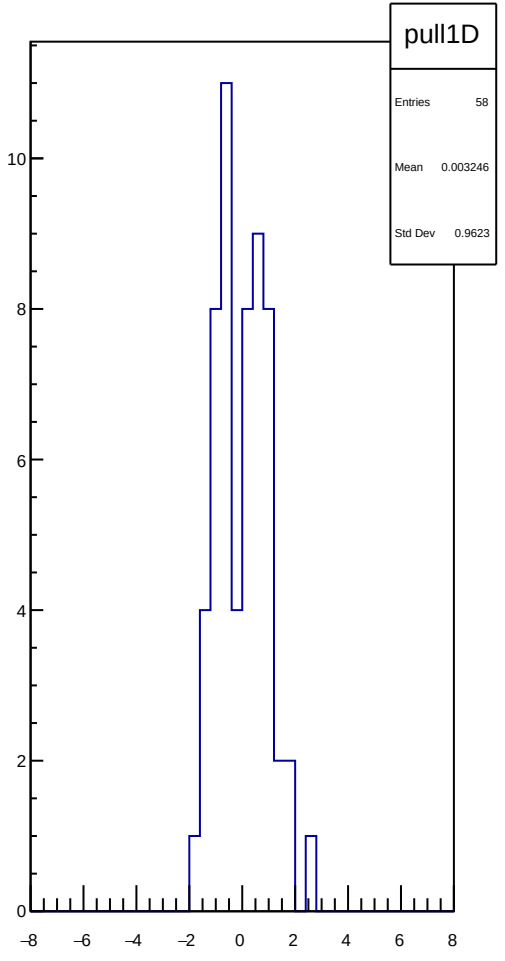

reg_asym_sam4_rms vs run
χ² / ndf 1.535e+04 / 57
p0 829.1 ± 0.8007
1000
950
900
850
800
750
700

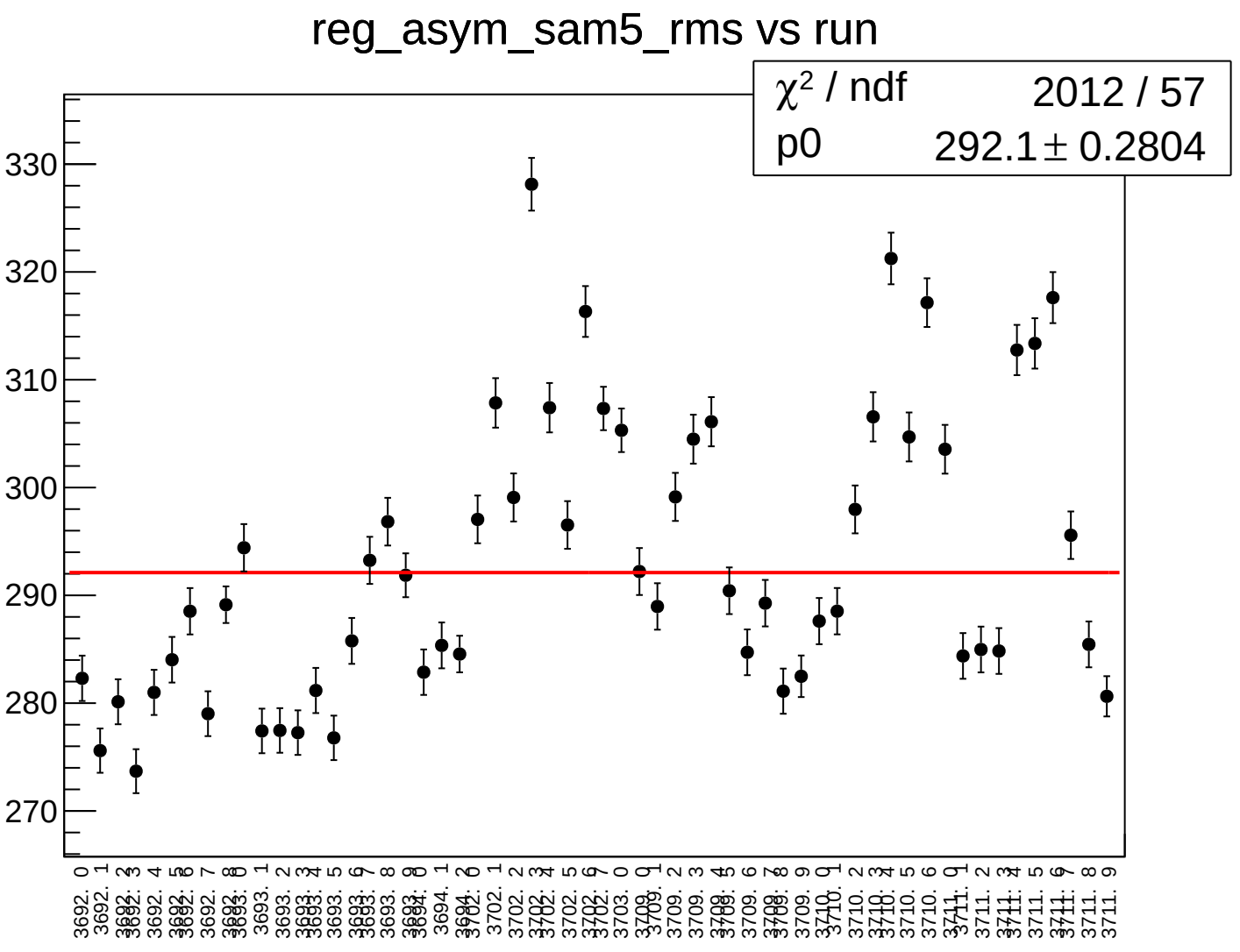

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 61.3 / 57
p0 −8805 ± 6070
150
100
50
0
−50
−100
−150
−200
pull
Entries 58
Mean −143.1
Std Dev 176
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

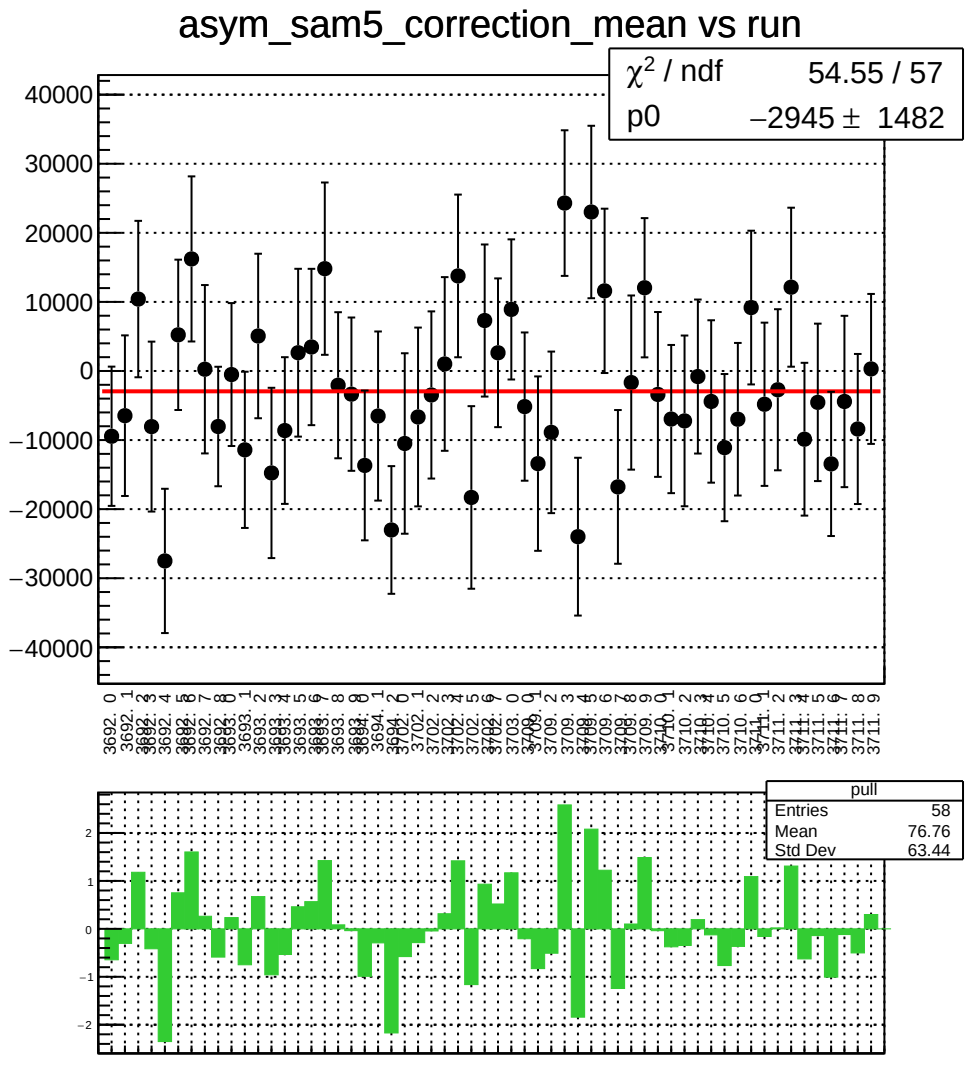

pull1D
Entries 58
Mean −0.01217
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

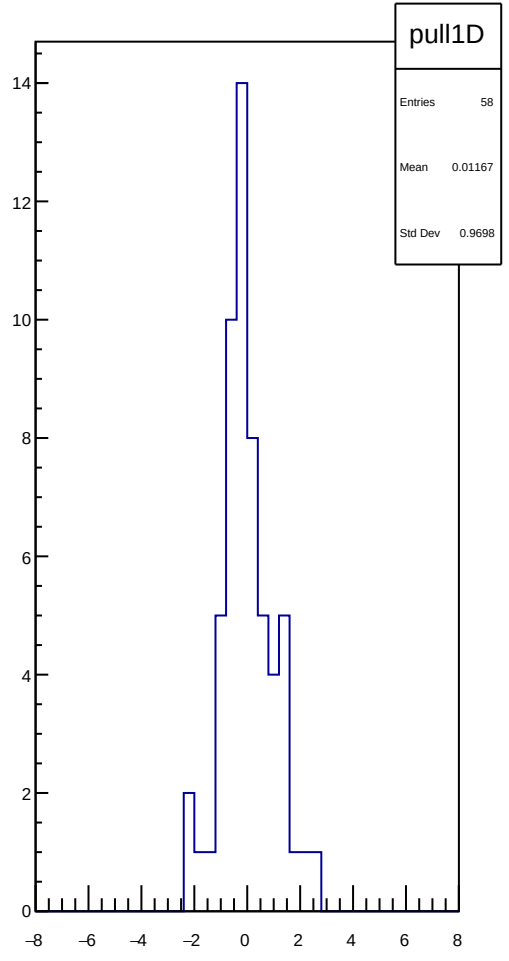

asym_sam4_correction_rms vs run
χ² / ndf 1.893e+04 / 57
p0 4437 ± 4.292
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

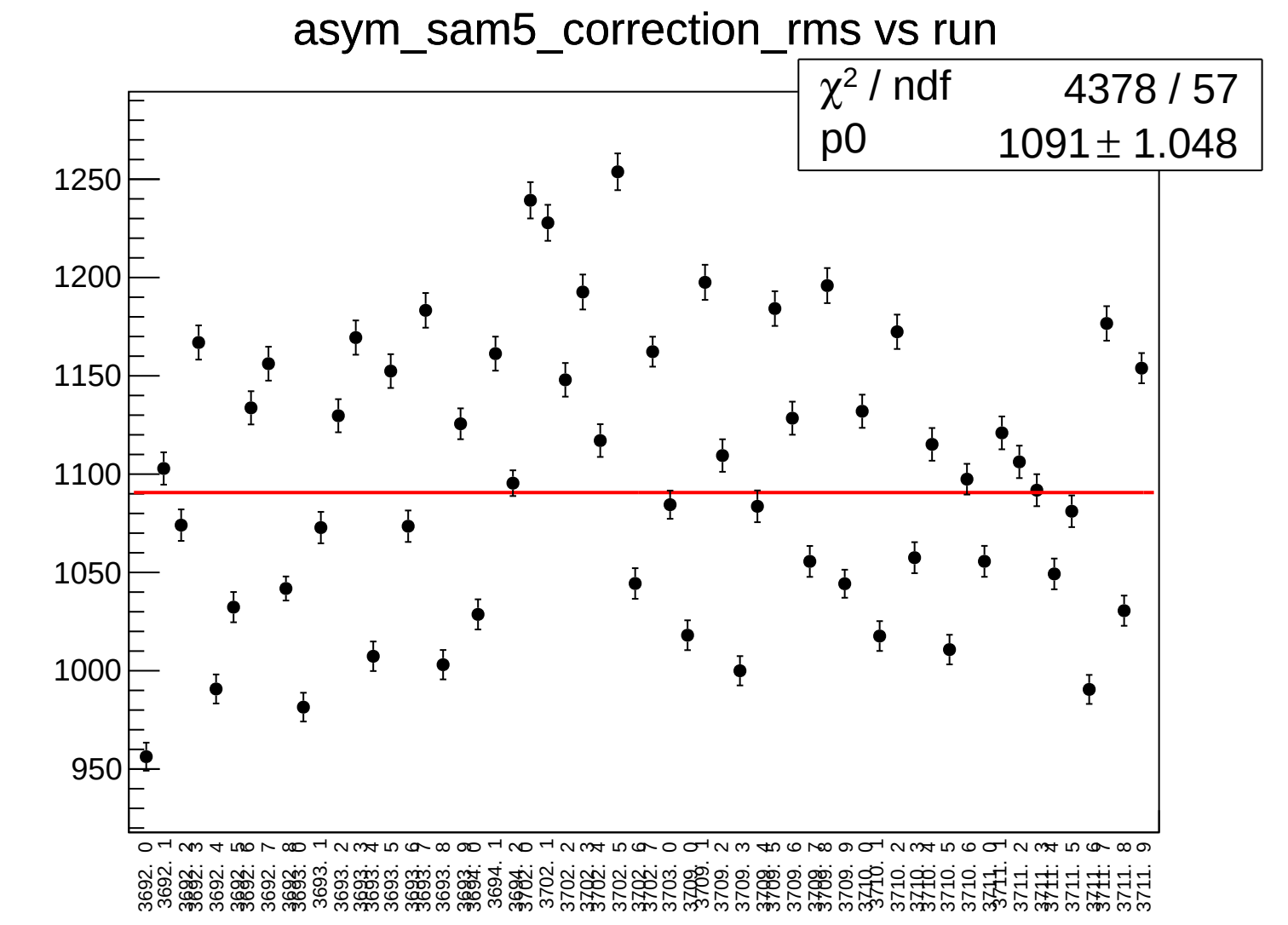

reg_asym_sam5_mean vs run
χ² / ndf 53.71 / 57
p0 406.7 ± 396.5
pull
Entries 58
Mean 470.8
Std Dev 437.8

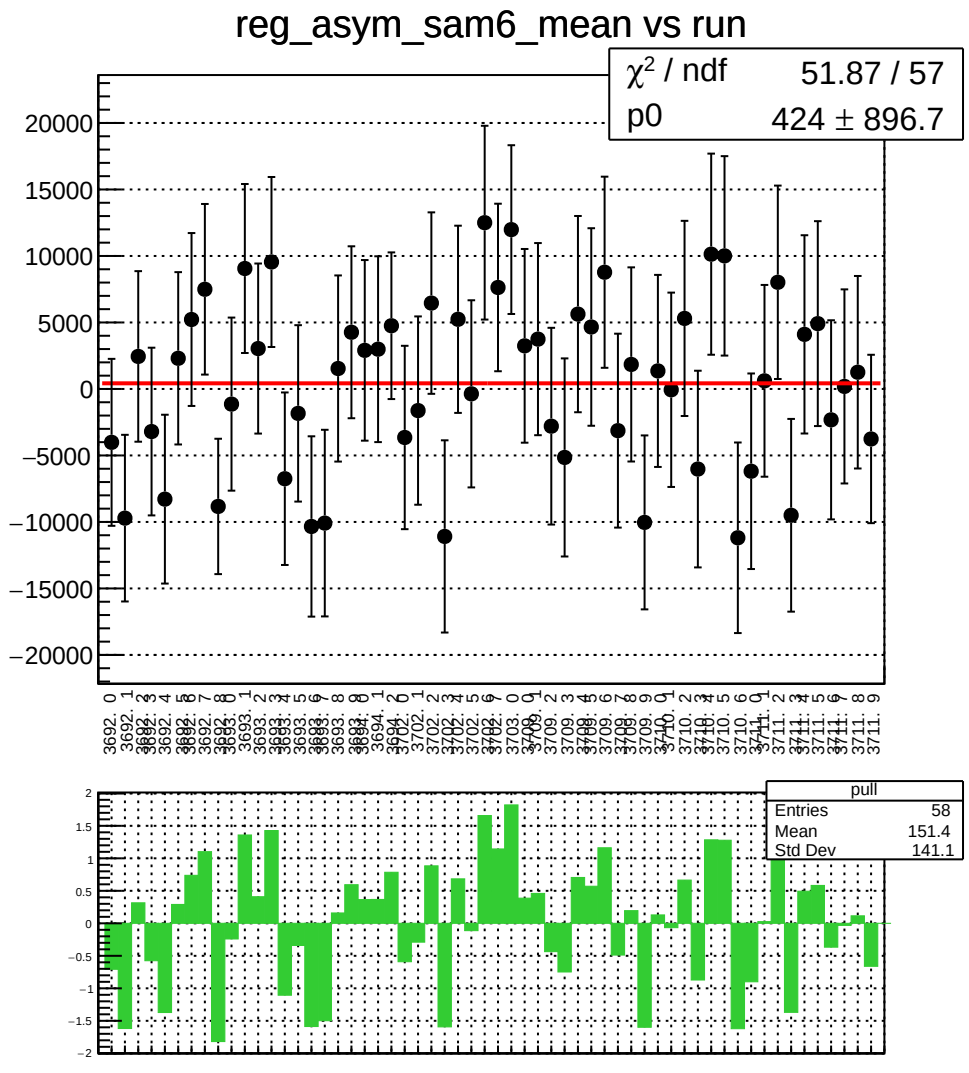

pull1D
Entries 58
Mean 0.003246
Std Dev 0.9623

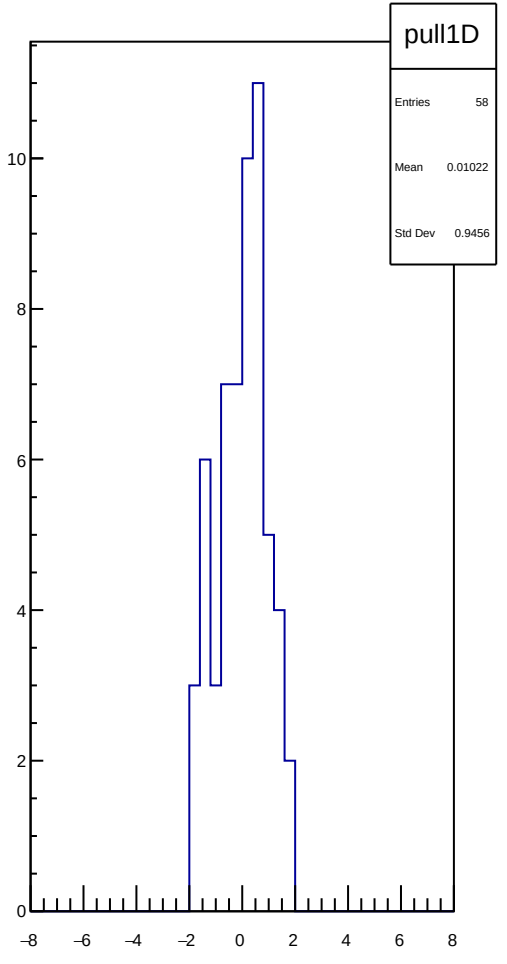

reg_asym_sam5_rms vs run
χ² / ndf 2012 / 57
p0 292.1 ± 0.2804
330
320
310
300
290
280
270

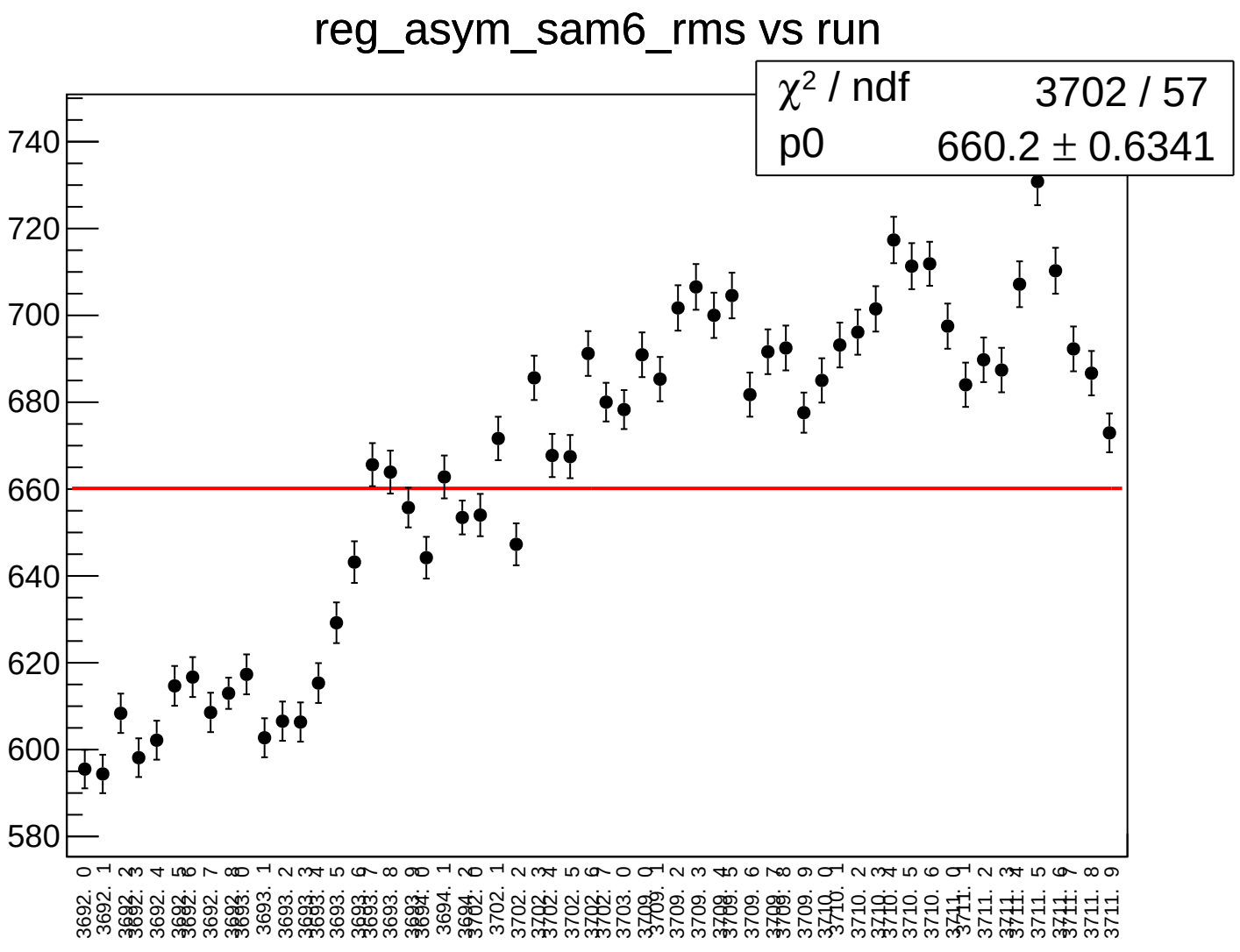

asym_sam5_correction_mean vs run
χ² / ndf 54.55 / 57
p0 −2945 ± 1482
pull
Entries 58
Mean 76.76
Std Dev 63.44

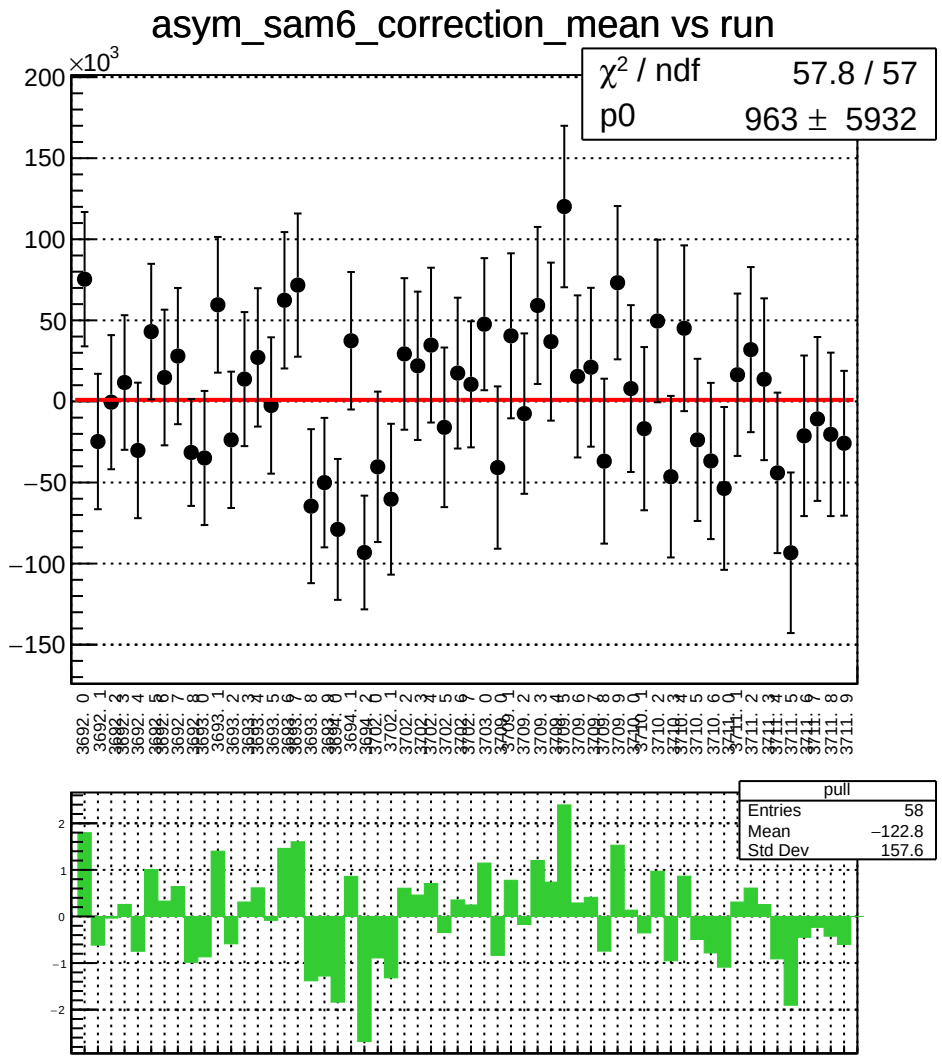

pull1D
Entries 58
Mean 0.01167
Std Dev 0.9698

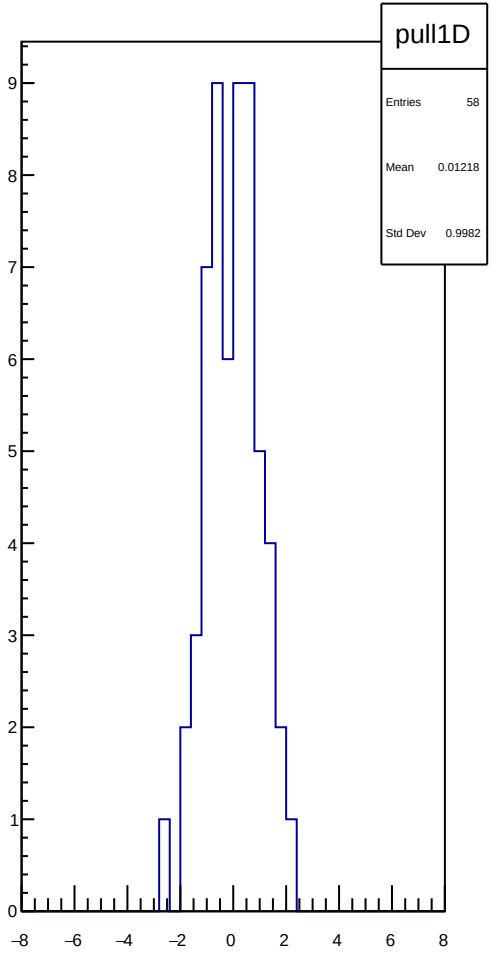

asym_sam5_correction_rms vs run
χ² / ndf 4378 / 57
p0 1091 ± 1.048
1250
1200
1150
1100
1050
1000
950

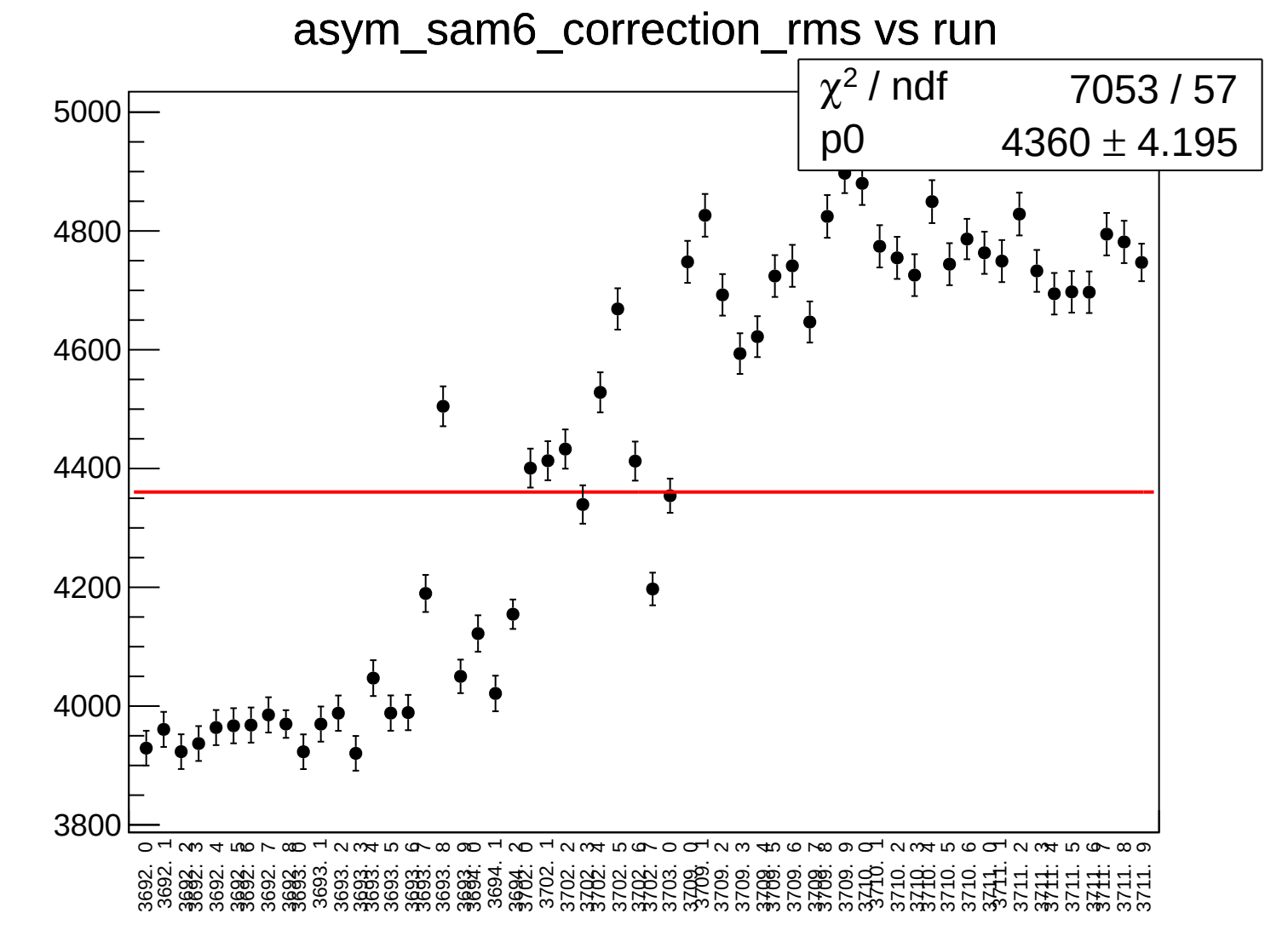

reg_asym_sam6_mean vs run
χ² / ndf 51.87 / 57
p0 424 ± 896.7
pull
Entries 58
Mean 151.4
Std Dev 141.1

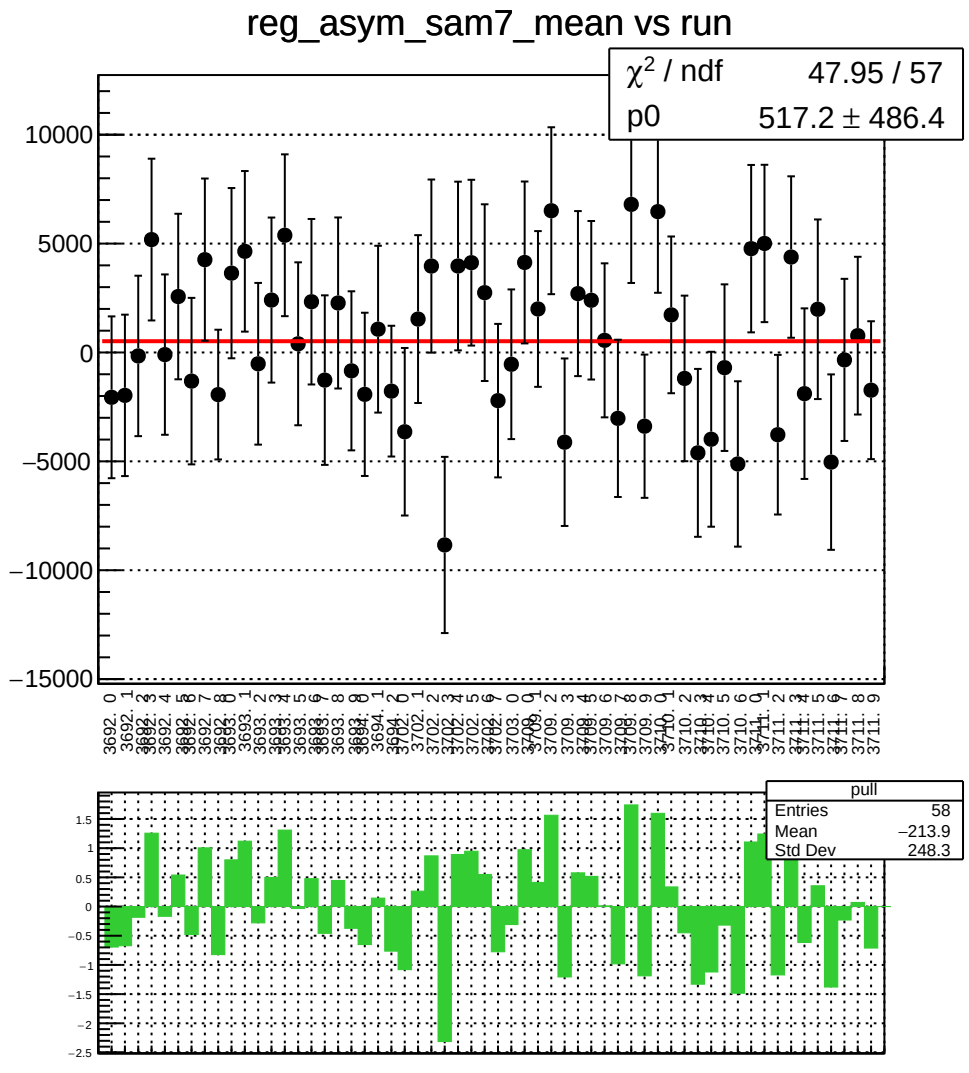

pull1D
Entries 58
Mean 0.01022
Std Dev 0.9456

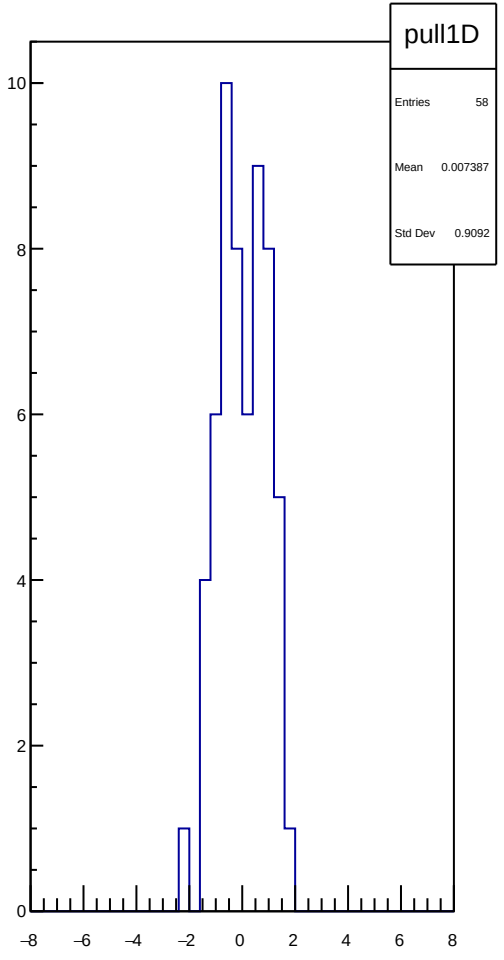

reg_asym_sam6_rms vs run
χ² / ndf 3702 / 57
p0 660.2 ± 0.6341
740
720
700
680
660
640
620
600
580

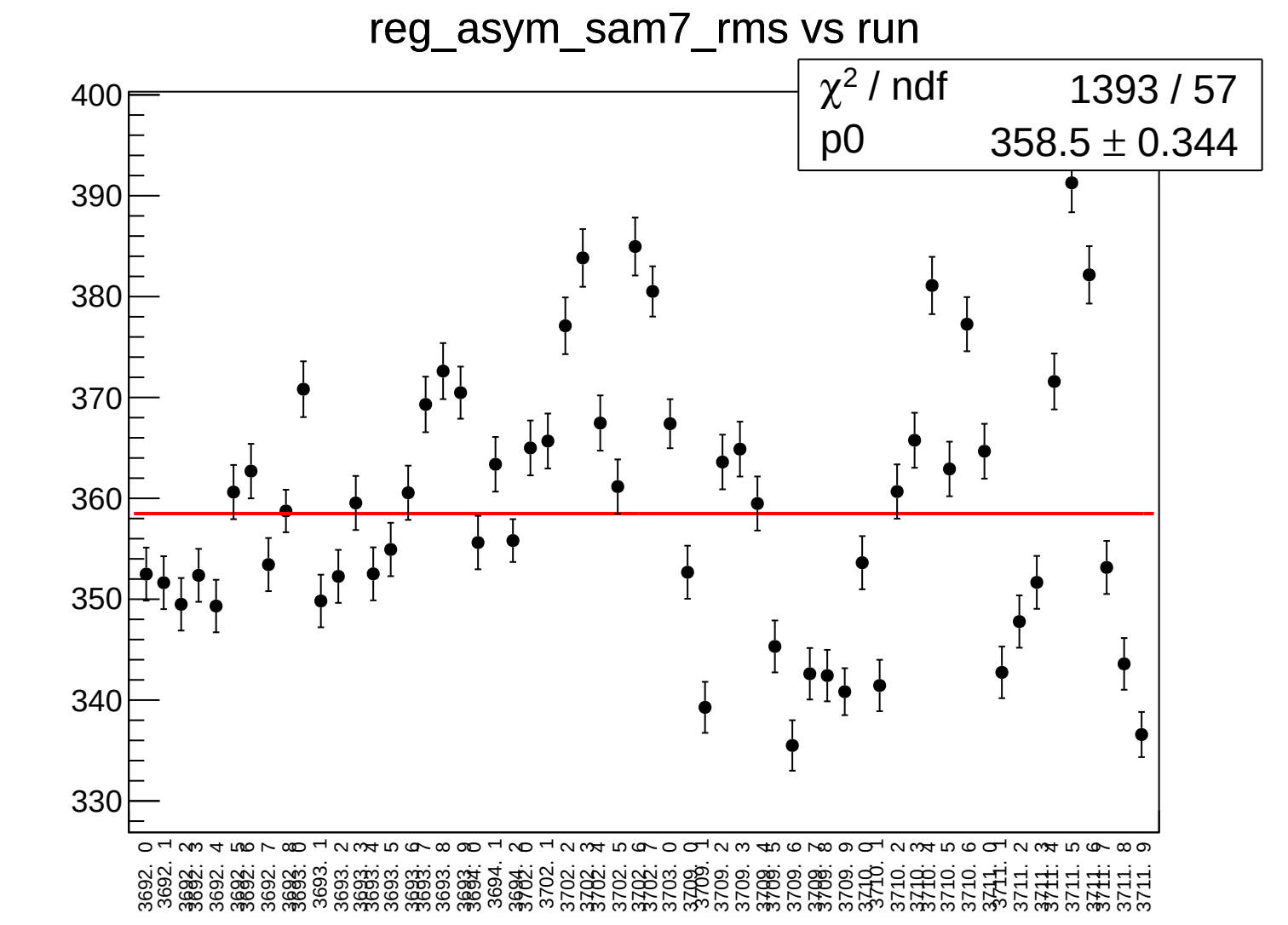

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 57.8 / 57
p0 963 ± 5932
pull
Entries 58
Mean −122.8
Std Dev 157.6

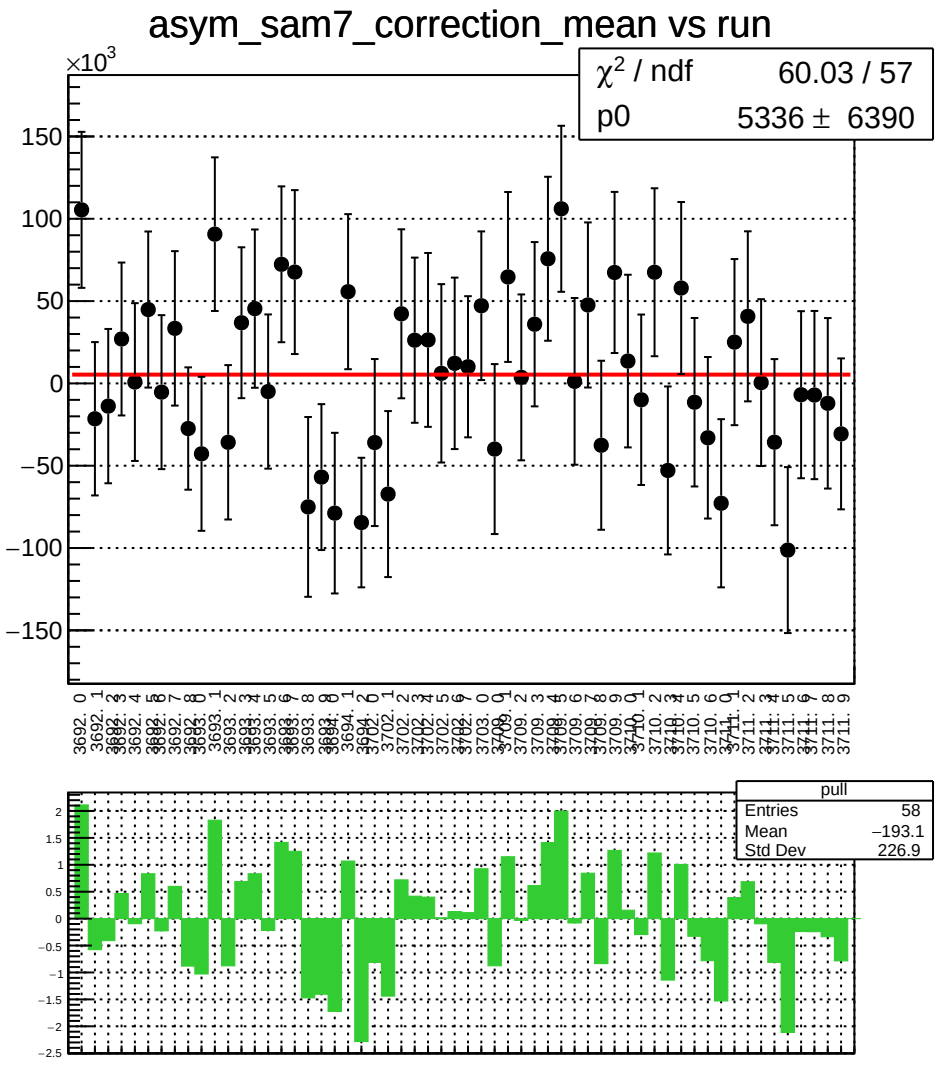

pull1D
Entries 58
Mean 0.01218
Std Dev 0.9982

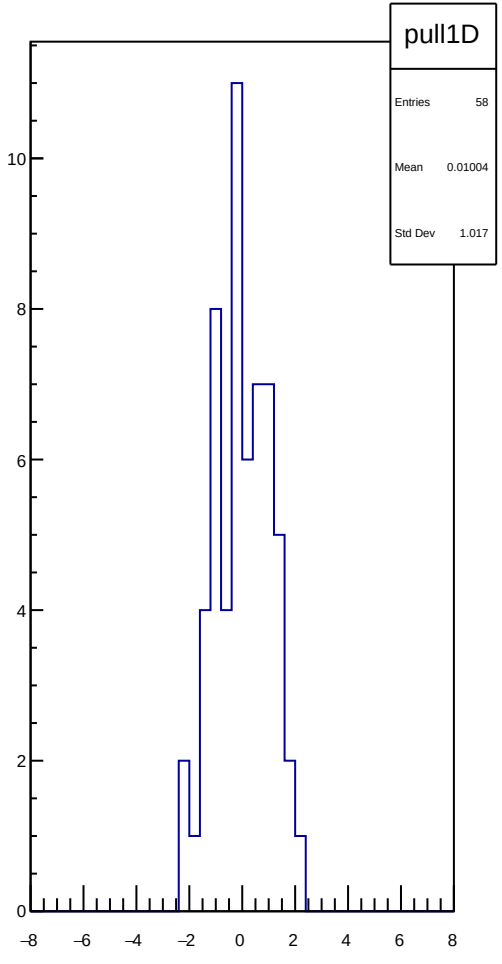

asym_sam6_correction_rms vs run
χ² / ndf 7053 / 57
p0 4360 ± 4.195
5000
4800
4600
4400
4200
4000
3800

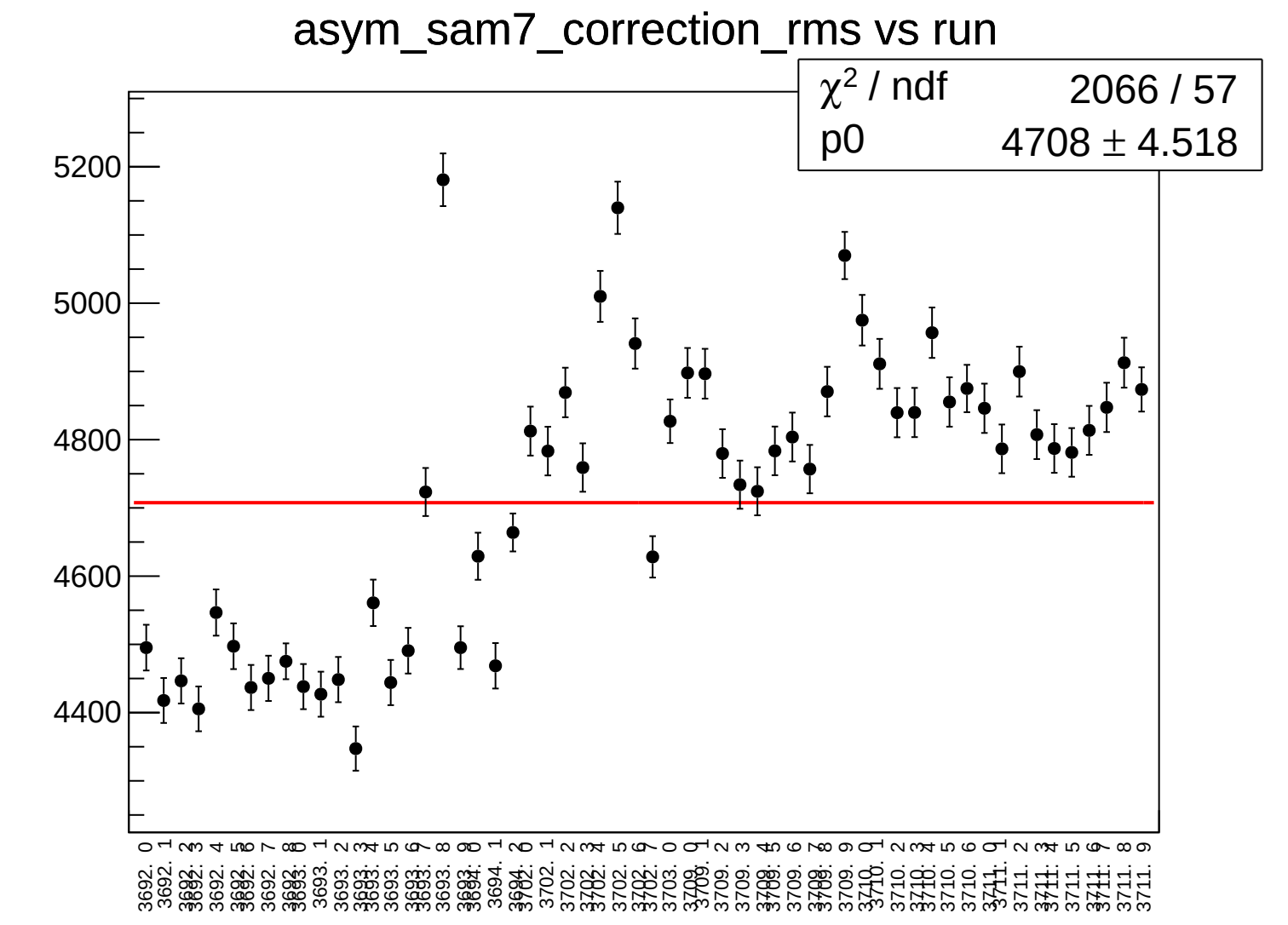

reg_asym_sam7_mean vs run
χ² / ndf 47.95 / 57
p0 517.2 ± 486.4
pull
Entries 58
Mean −213.9
Std Dev 248.3

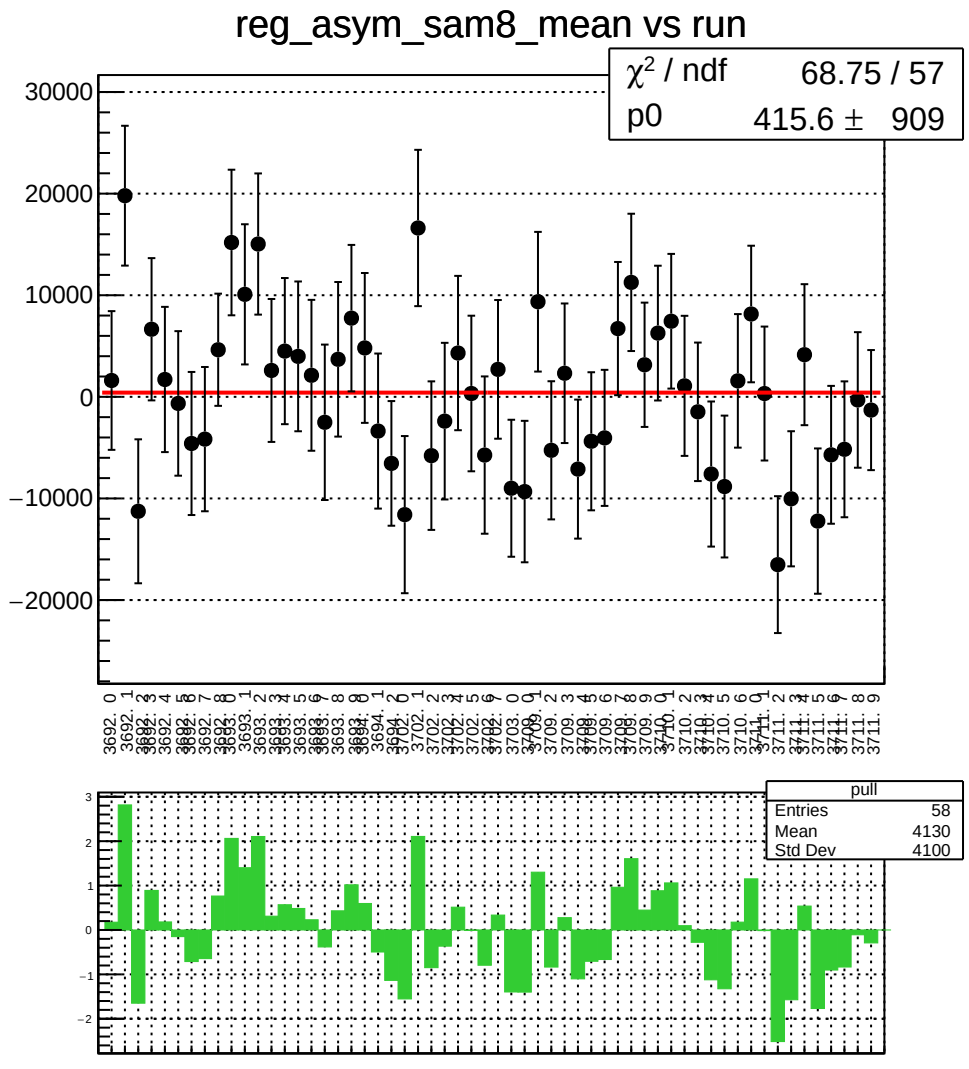

pull1D
Entries 58
Mean 0.007387
Std Dev 0.9092

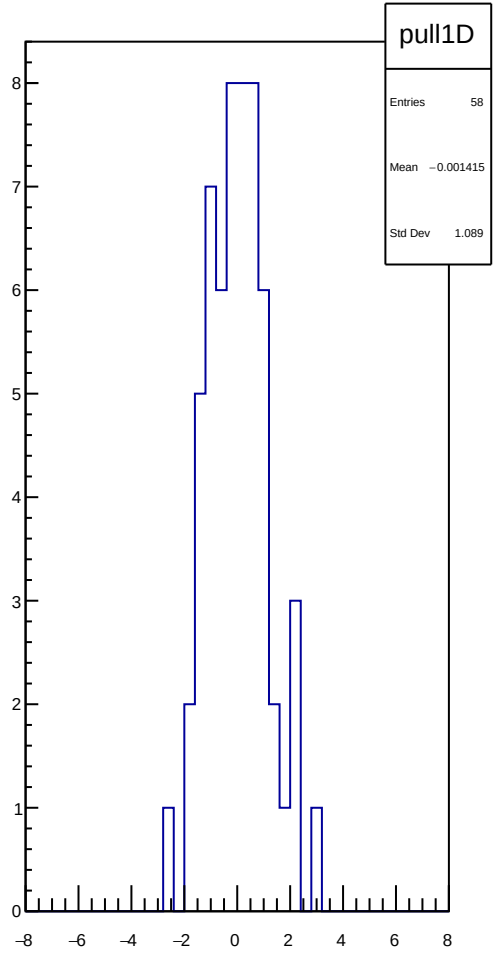

reg_asym_sam7_rms vs run
χ² / ndf 1393 / 57
p0 358.5 ± 0.344
400
390
380
370
360
350
340
330

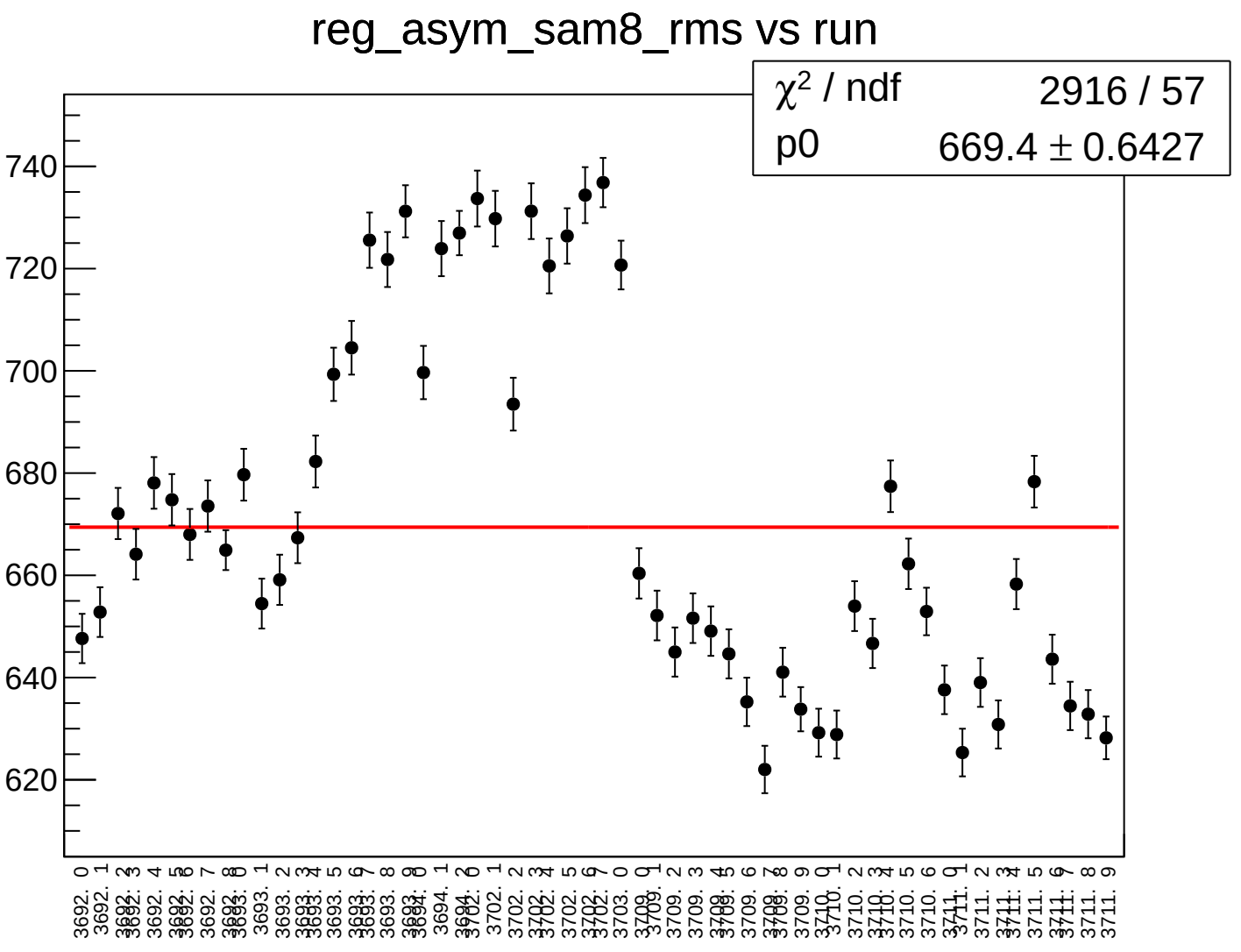

asym_sam7_correction_mean vs run
×10^3
χ^2 / ndf 60.03 / 57
p0 5336 ± 6390
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −193.1
Std Dev 226.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

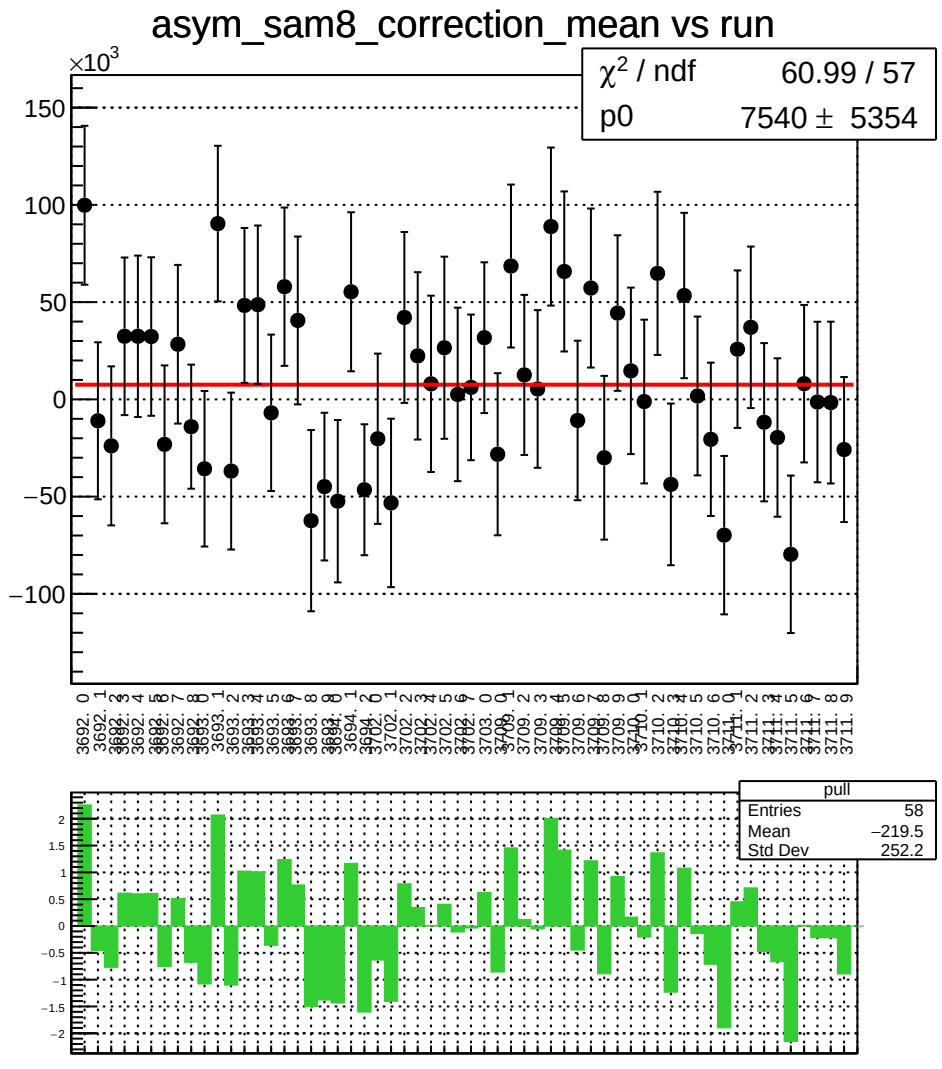

pull1D
Entries 58
Mean 0.01004
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

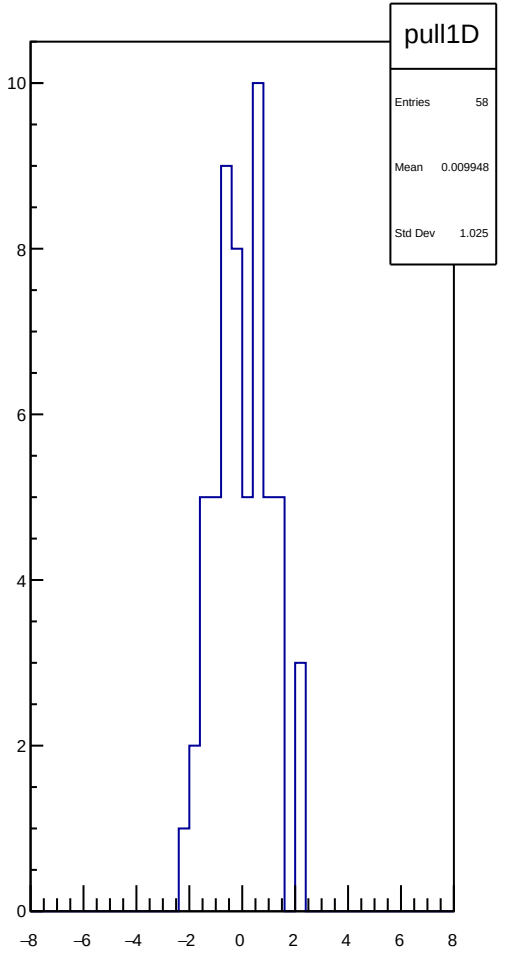

asym_sam7_correction_rms vs run
χ² / ndf 2066 / 57
p0 4708 ± 4.518
5200
5000
4800
4600
4400

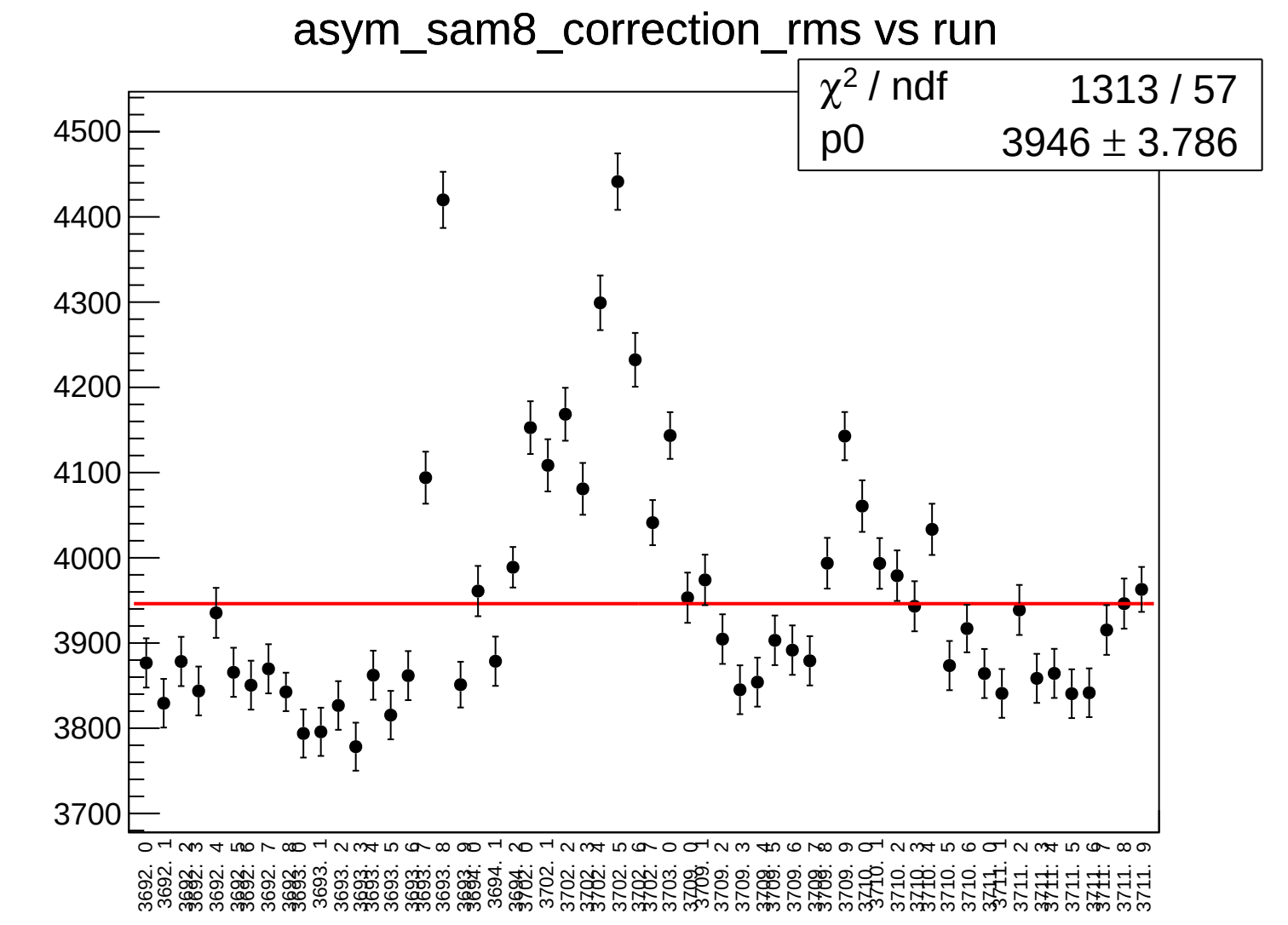

reg_asym_sam8_mean vs run
χ² / ndf 68.75 / 57
p0 415.6 ± 909
30000
20000
10000
0
−10000
−20000
pull
Entries 58
Mean 4130
Std Dev 4100
3
2
1
0
−1
−2

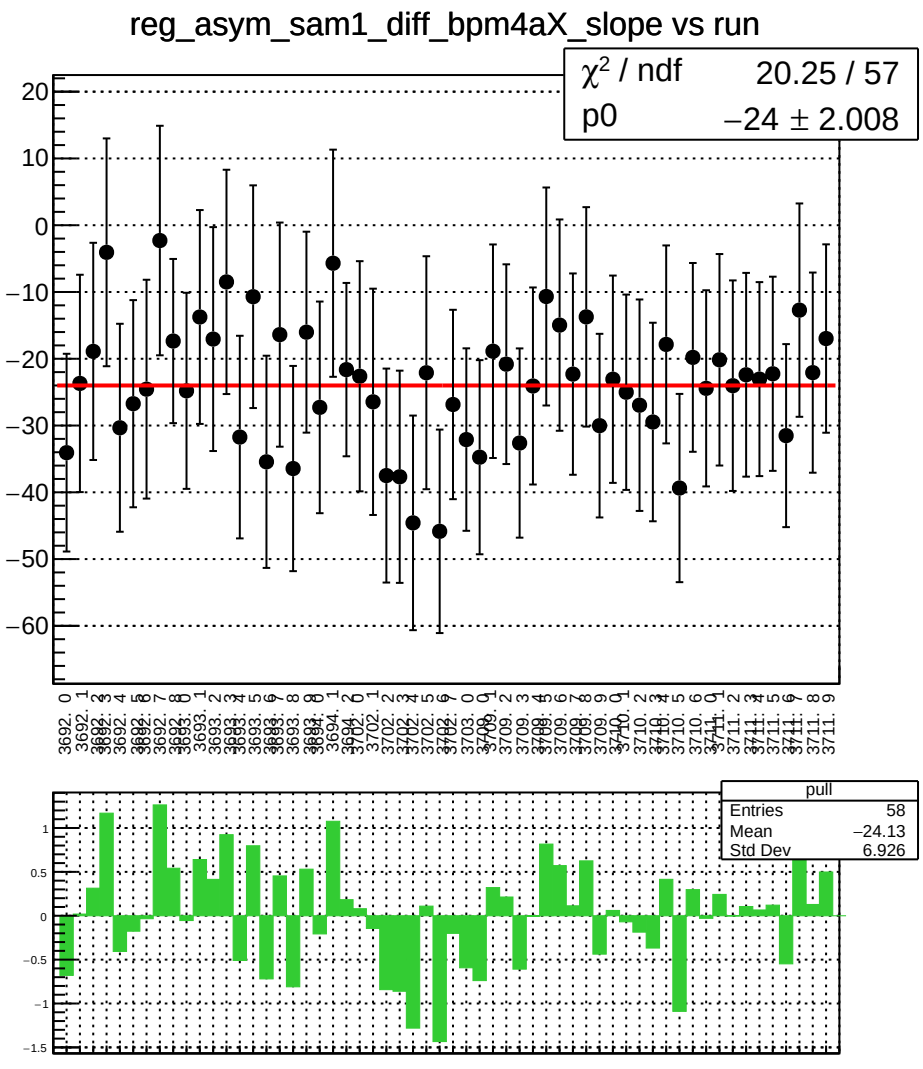

pull1D
Entries 58
Mean −0.001415
Std Dev 1.089
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

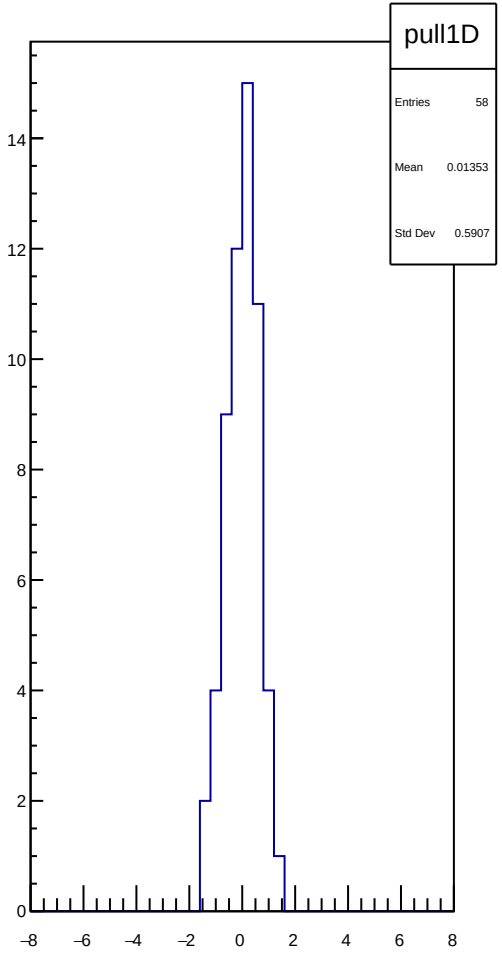

reg_asym_sam8_rms vs run
χ² / ndf 2916 / 57
p0 669.4 ± 0.6427
740
720
700
680
660
640
620

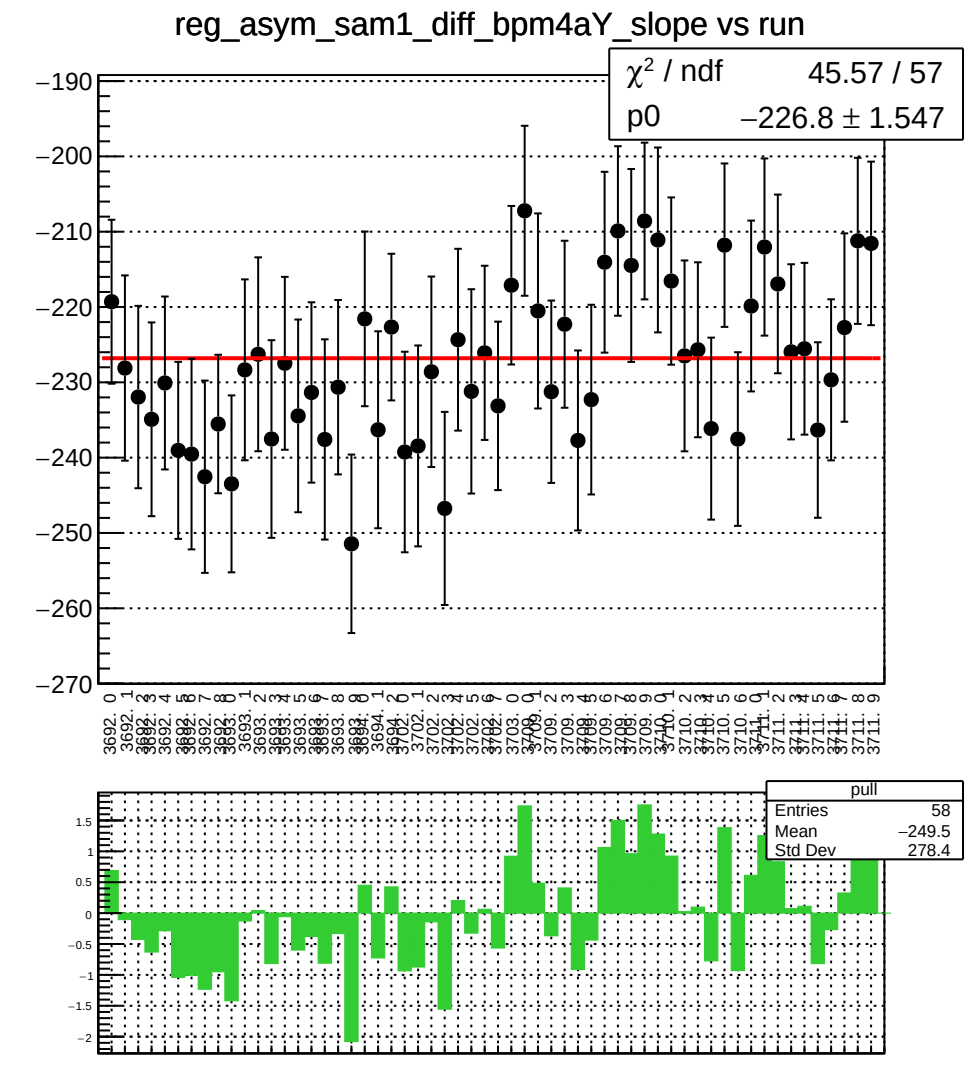

asym_sam8_correction_mean vs run
×10^3
χ² / ndf 60.99 / 57
p0 7540 ± 5354
150
100
50
0
−50
−100
pull
Entries 58
Mean −219.5
Std Dev 252.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

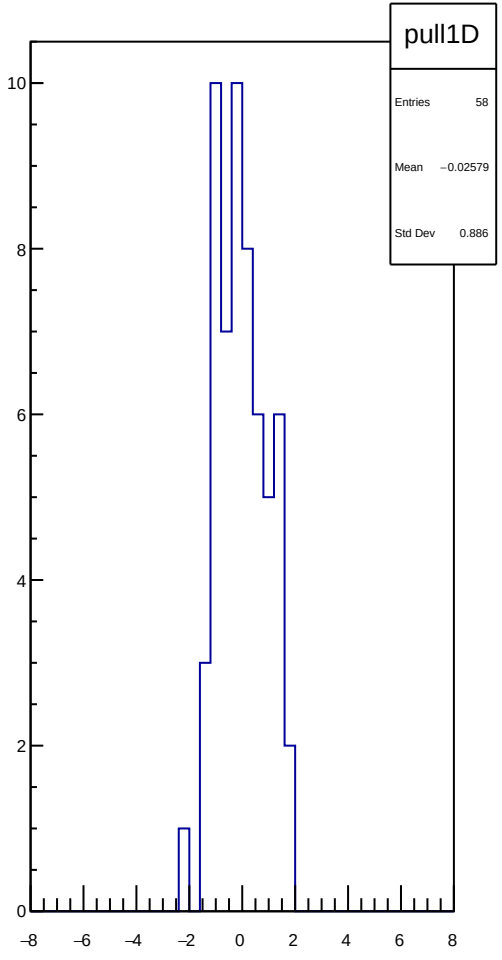

pull1D
Entries 58
Mean 0.009948
Std Dev 1.025
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

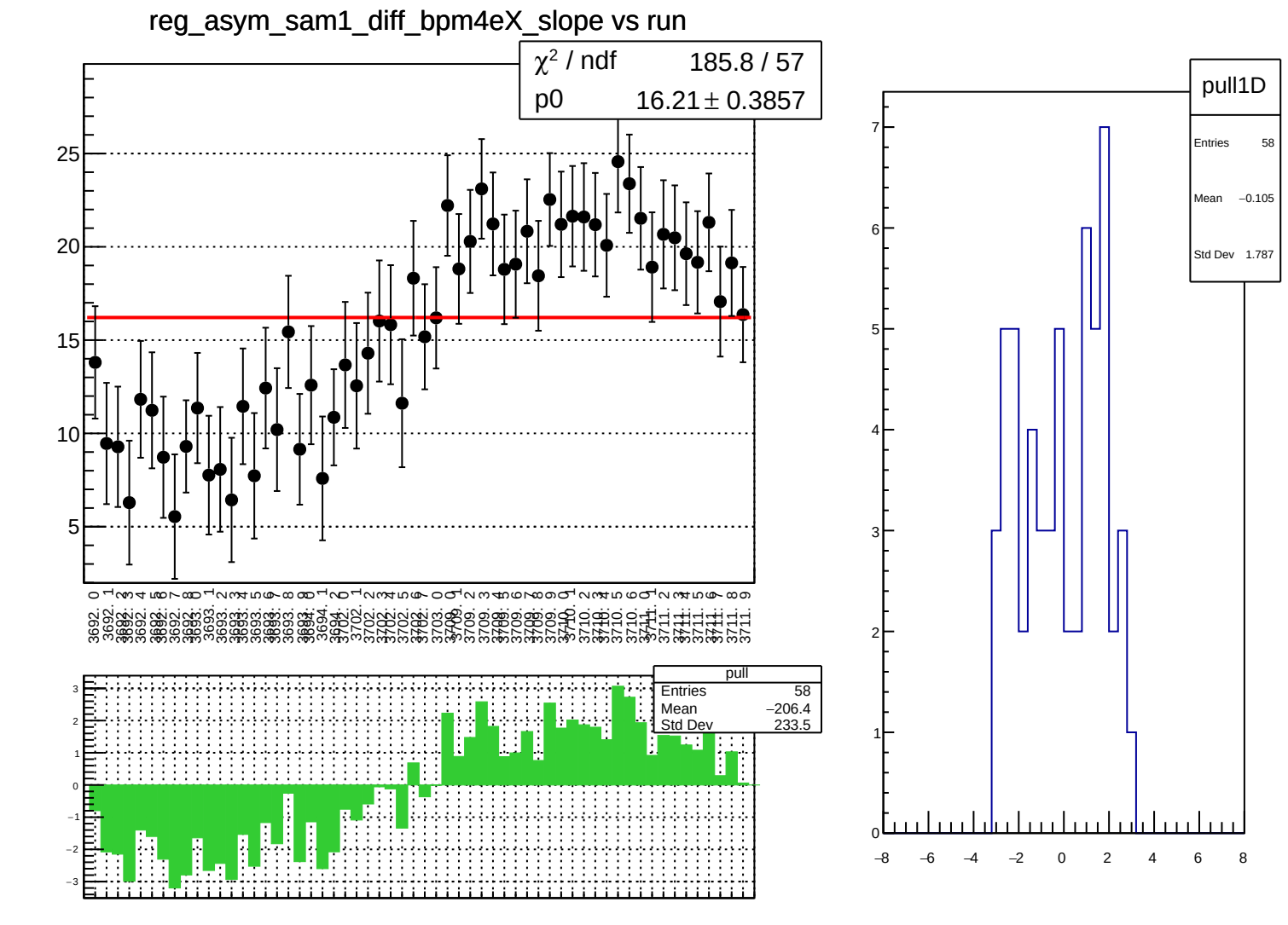

asym_sam8_correction_rms vs run
χ² / ndf 1313 / 57
p0 3946 ± 3.786
4500
4400
4300
4200
4100
4000
3900
3800
3700

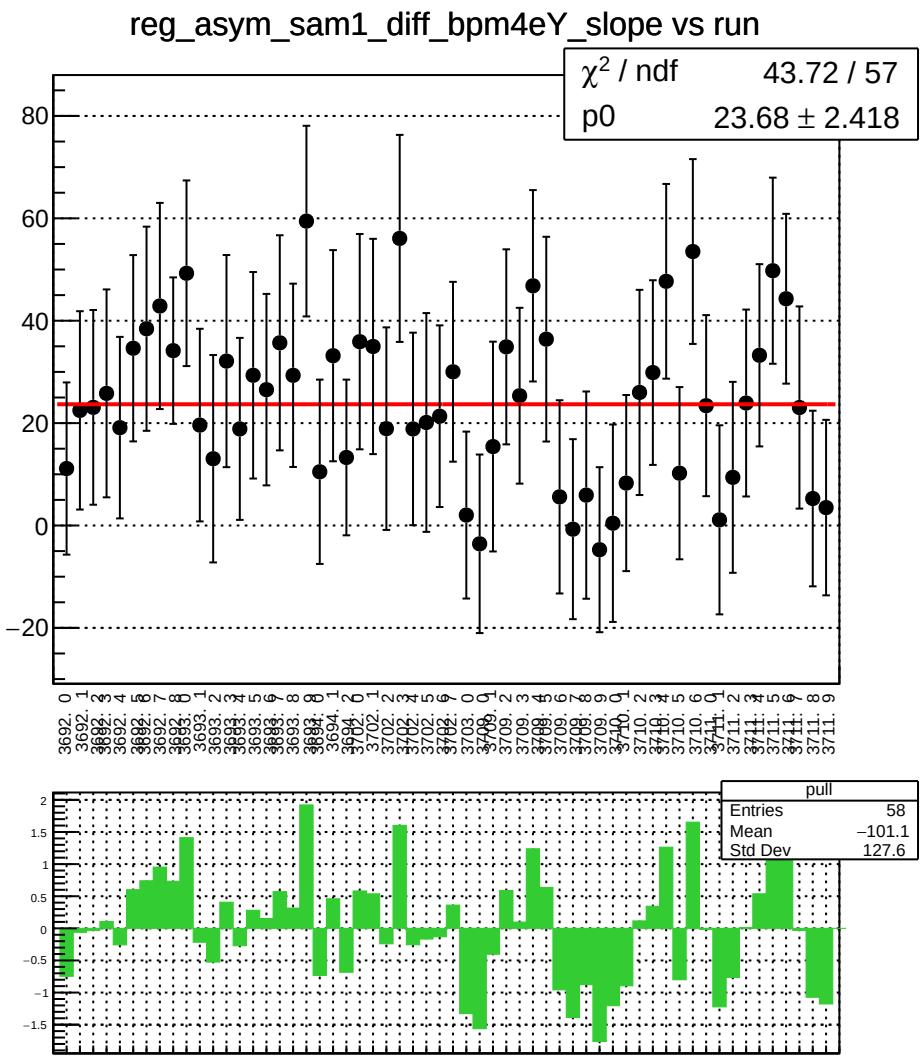

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 20.25 / 57
p0 −24 ± 2.008
pull
Entries 58
Mean −24.13
Std Dev 6.926

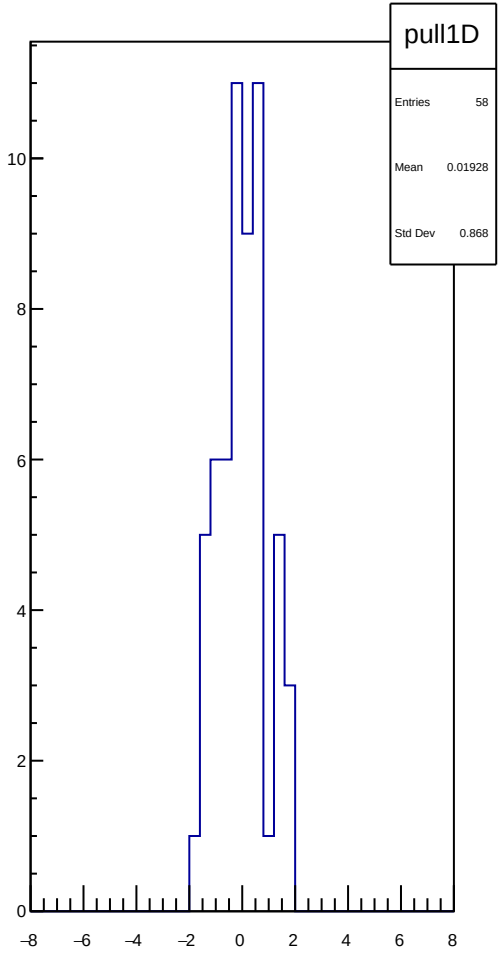

pull1D
Entries 58
Mean 0.01353
Std Dev 0.5907

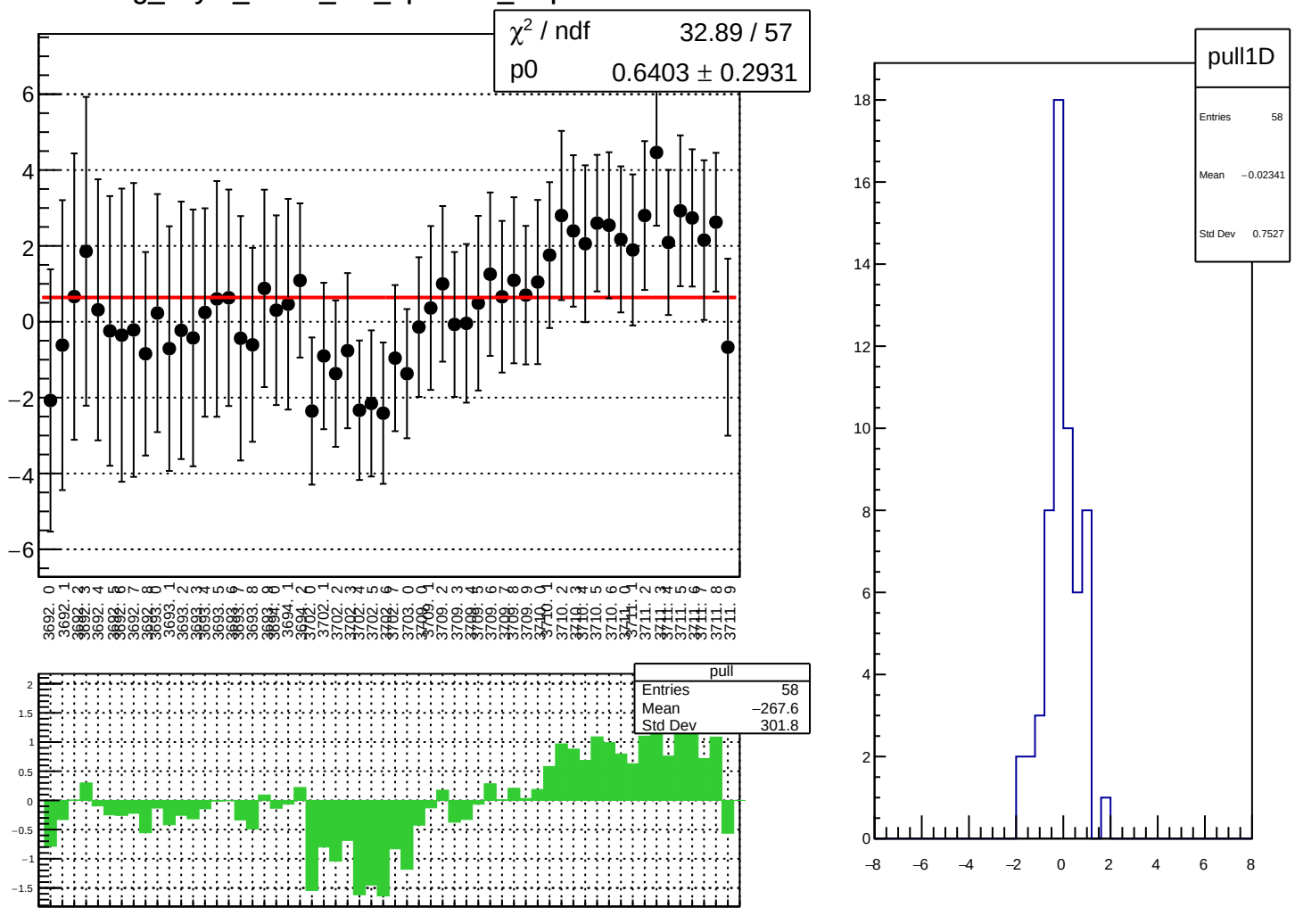

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 45.57 / 57
p0 −226.8 ± 1.547
pull
Entries 58
Mean −249.5
Std Dev 278.4

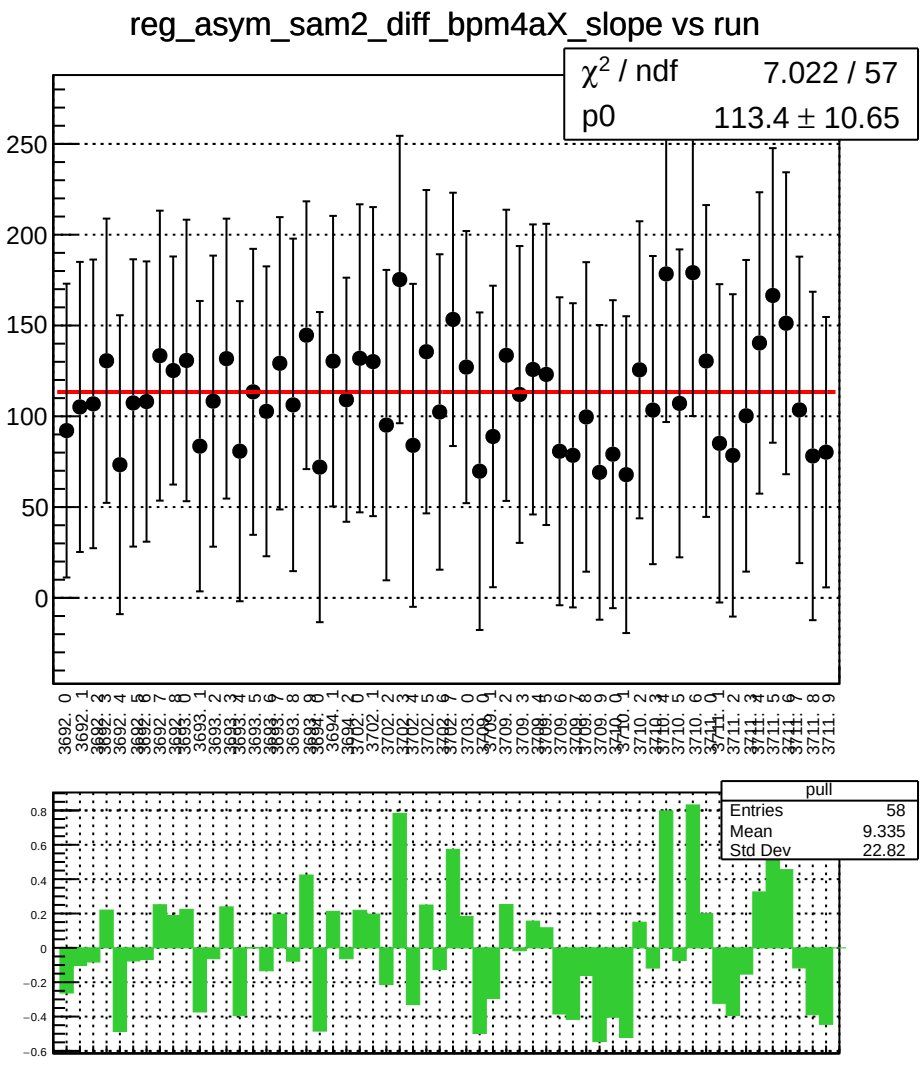

pull1D
Entries 58
Mean −0.02579
Std Dev 0.886

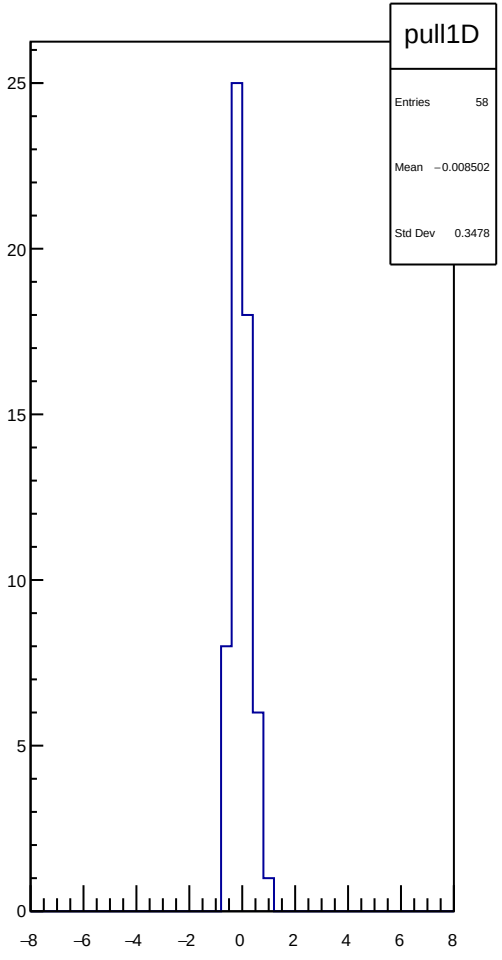

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 185.8 / 57
p0 16.21 ± 0.3857
pull
Entries 58
Mean −206.4
Std Dev 233.5
pull1D
Entries 58
Mean −0.105
Std Dev 1.787

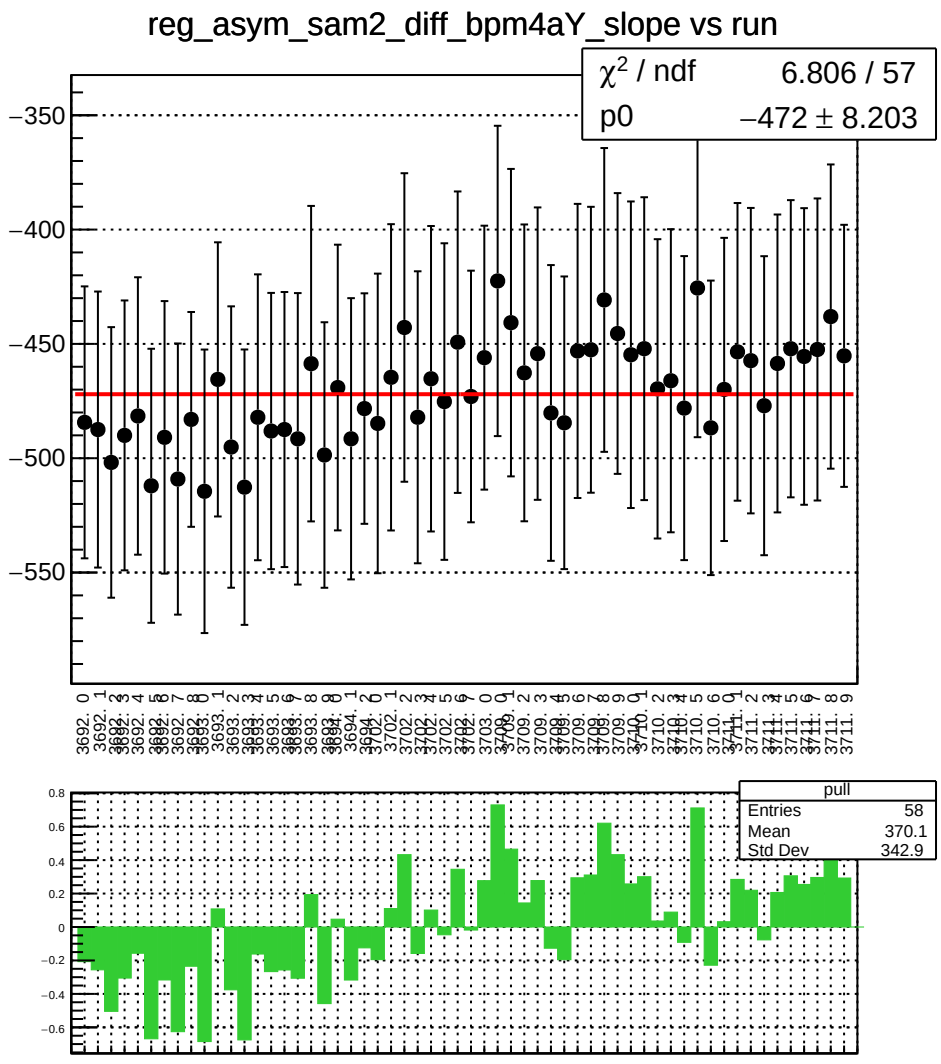

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 43.72 / 57
p0 23.68 ± 2.418
pull
Entries 58
Mean −101.1
Std Dev 127.6

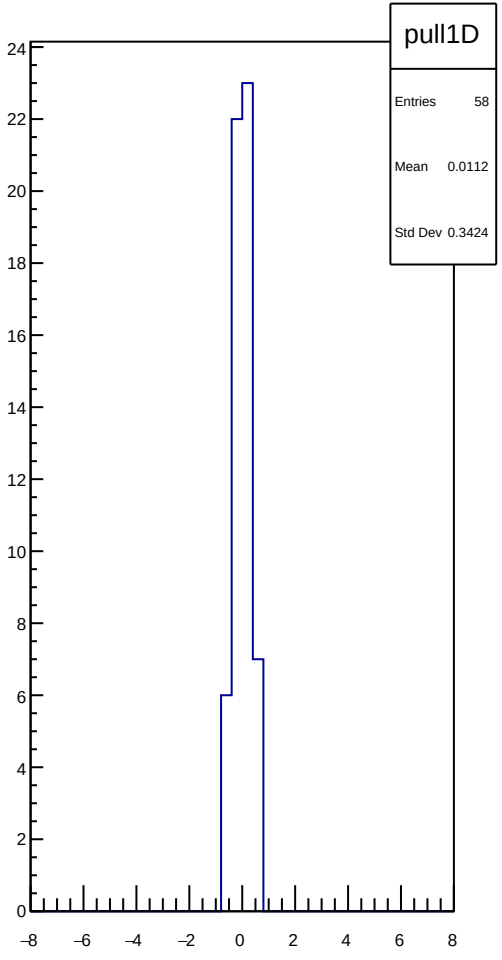

pull1D
Entries 58
Mean 0.01928
Std Dev 0.868

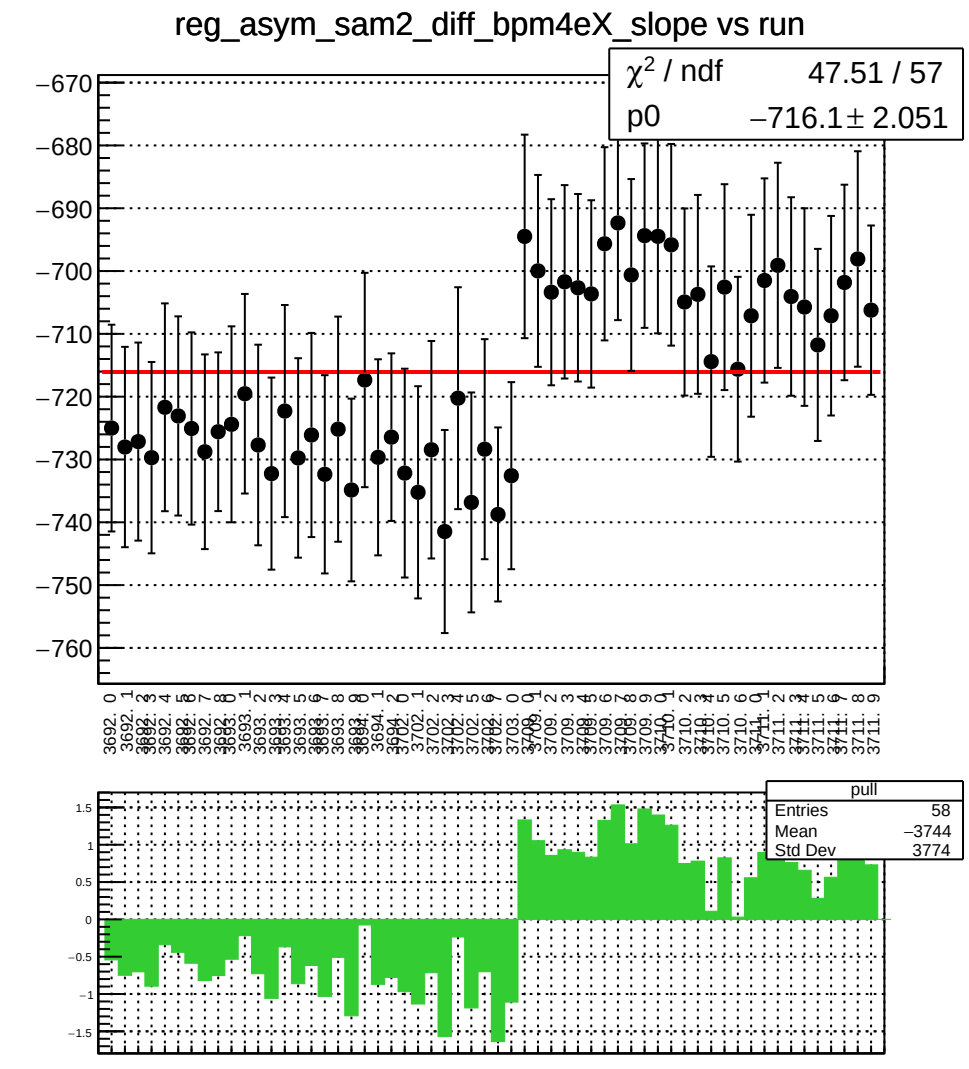

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 32.89 / 57
p0 0.6403 ± 0.2931
pull
Entries 58
Mean −267.6
Std Dev 301.8
pull1D
Entries 58
Mean −0.02341
Std Dev 0.7527

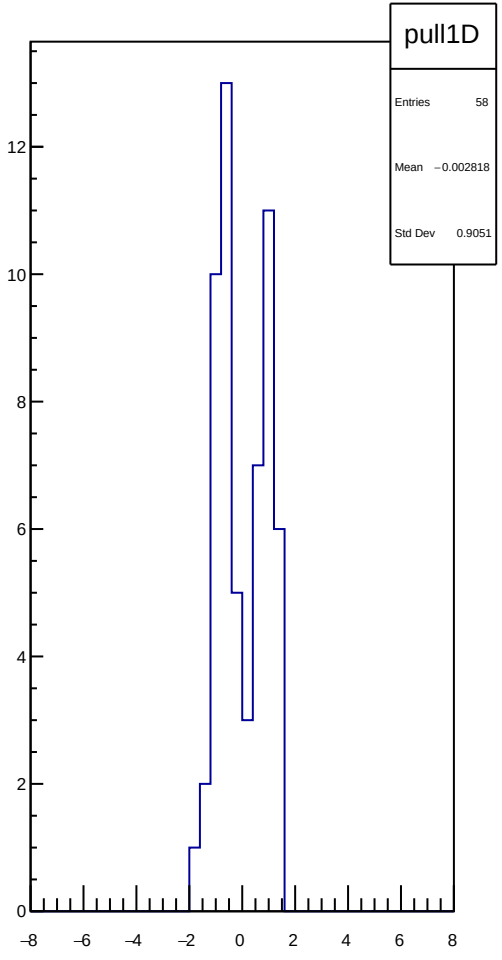

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 7.022 / 57
p0 113.4 ± 10.65
pull
Entries 58
Mean 9.335
Std Dev 22.82

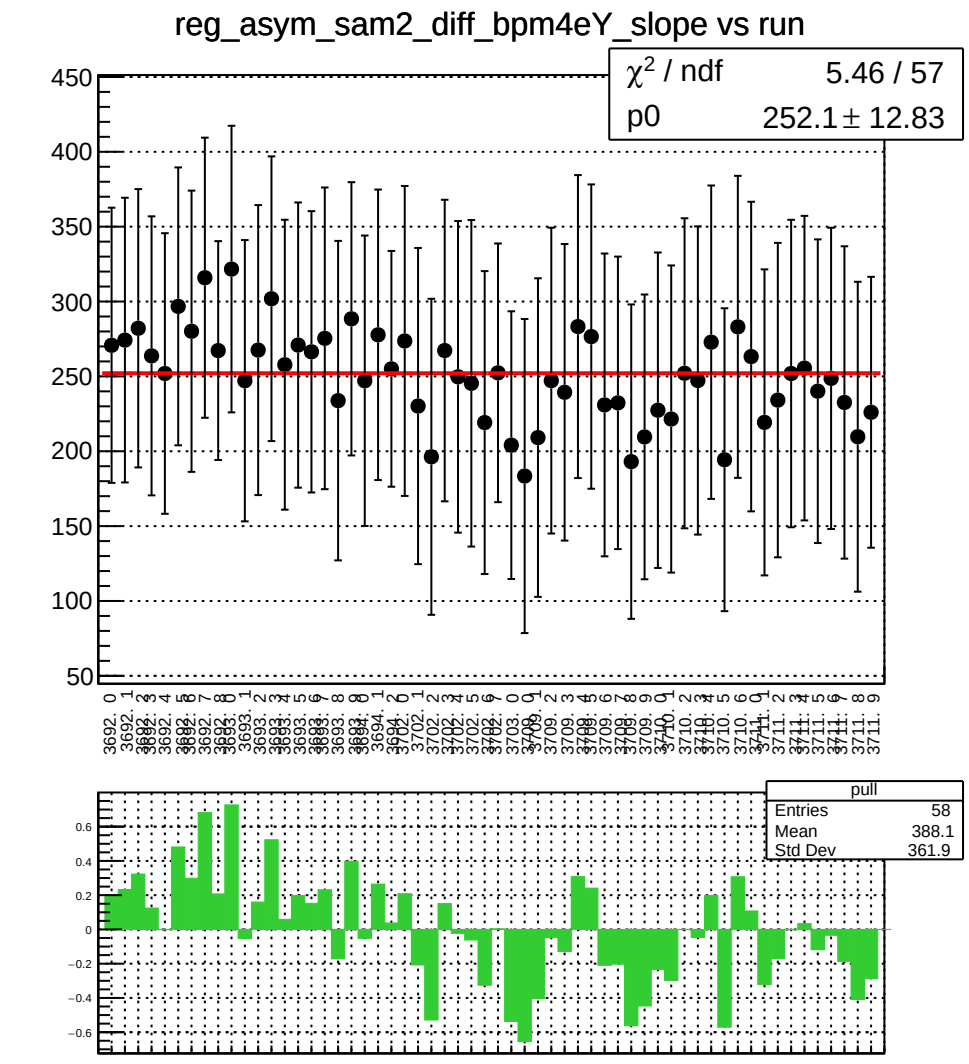

pull1D
Entries 58
Mean −0.008502
Std Dev 0.3478

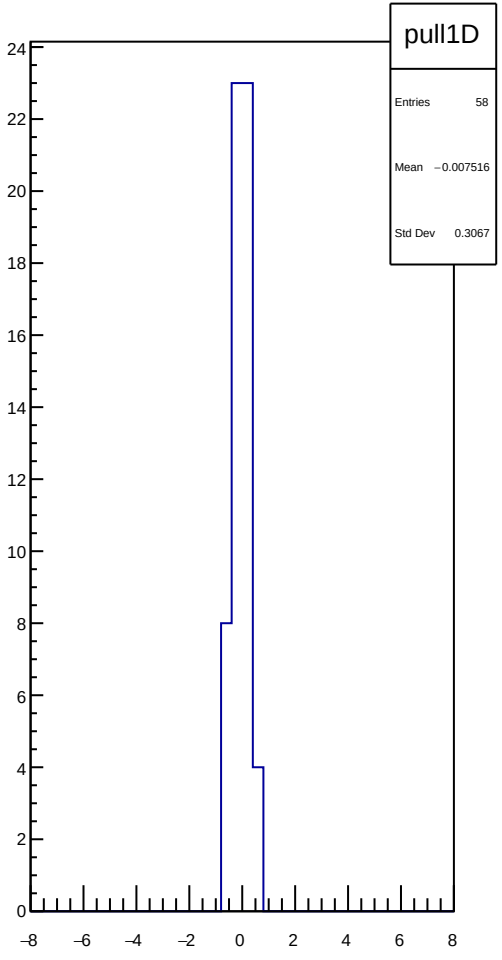

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 6.806 / 57
p0 −472 ± 8.203
pull
Entries 58
Mean 370.1
Std Dev 342.9

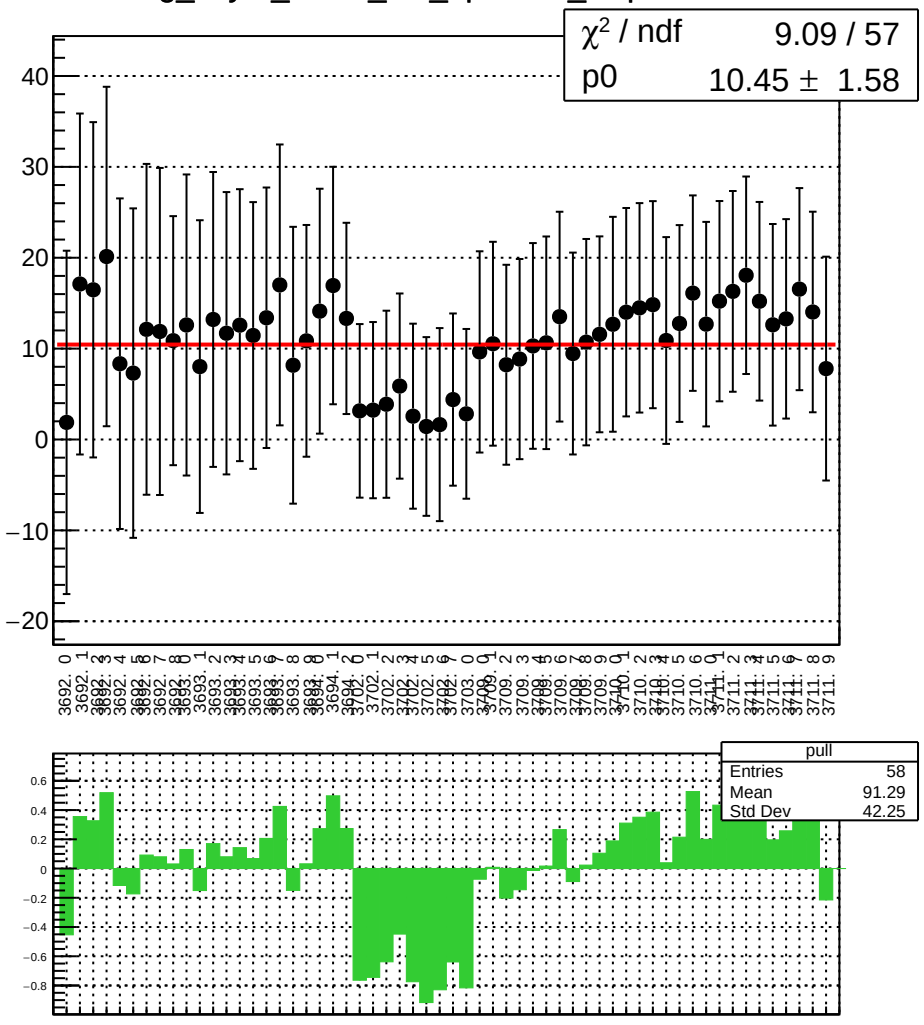

pull1D
Entries 58
Mean 0.0112
Std Dev 0.3424

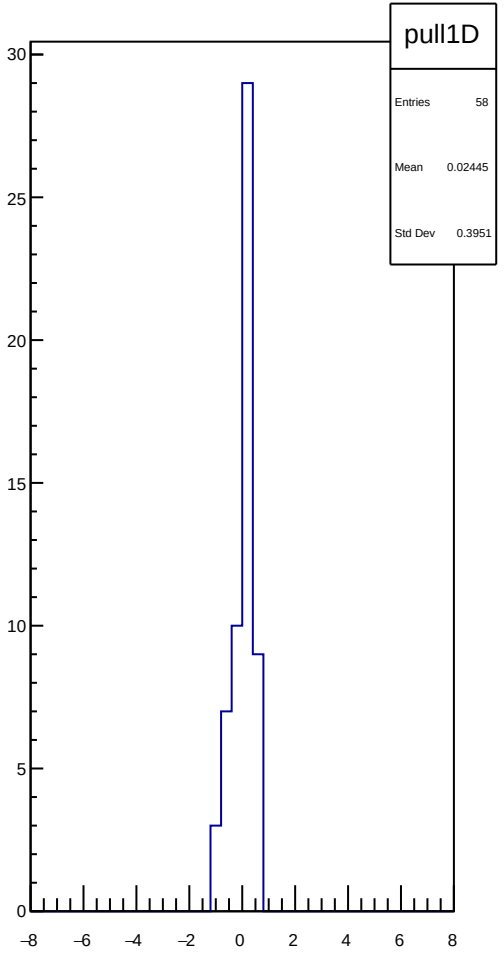

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 47.51 / 57
p0 −716.1 ± 2.051
pull
Entries 58
Mean −3744
Std Dev 3774

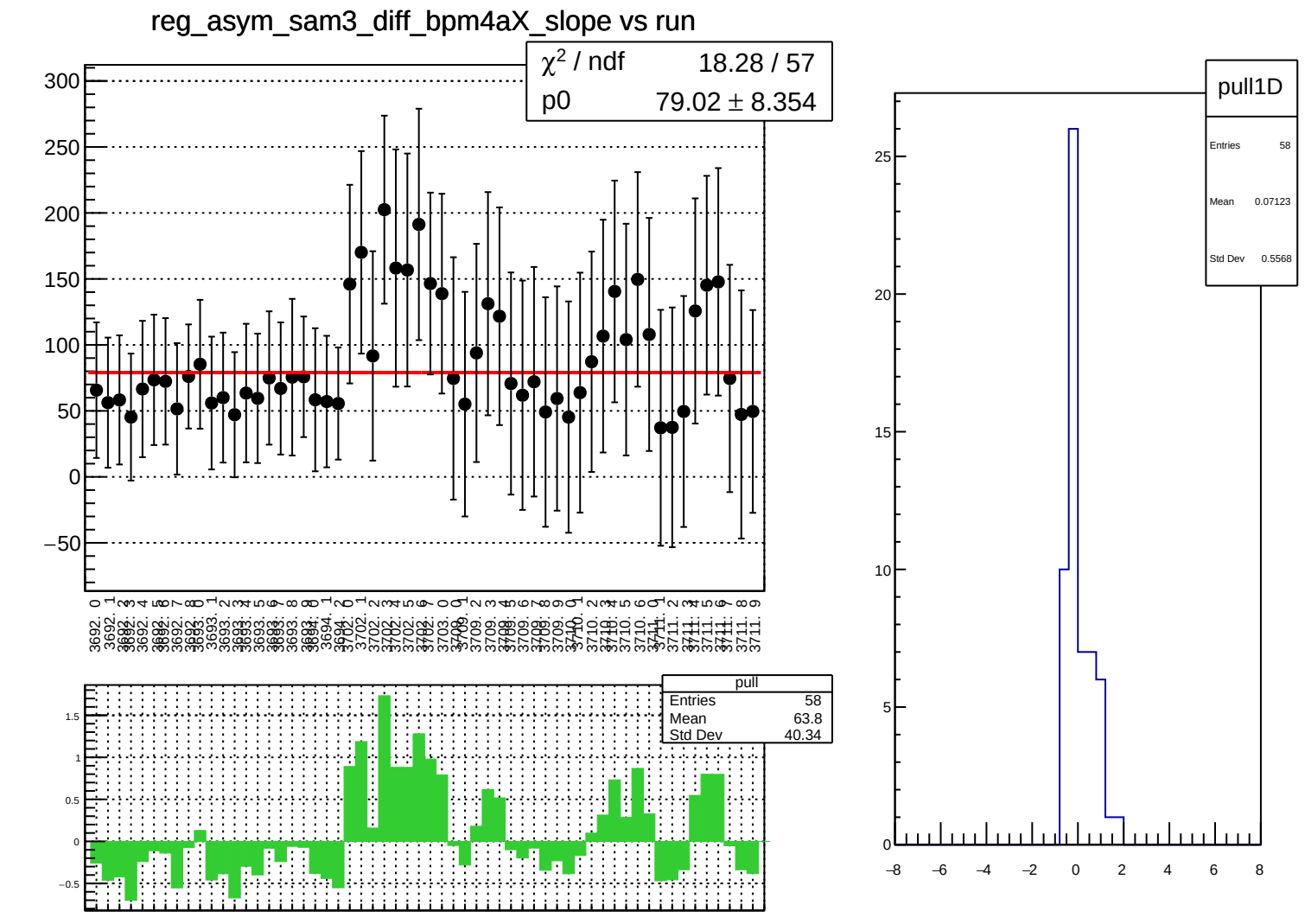

pull1D
Entries 58
Mean −0.002818
Std Dev 0.9051

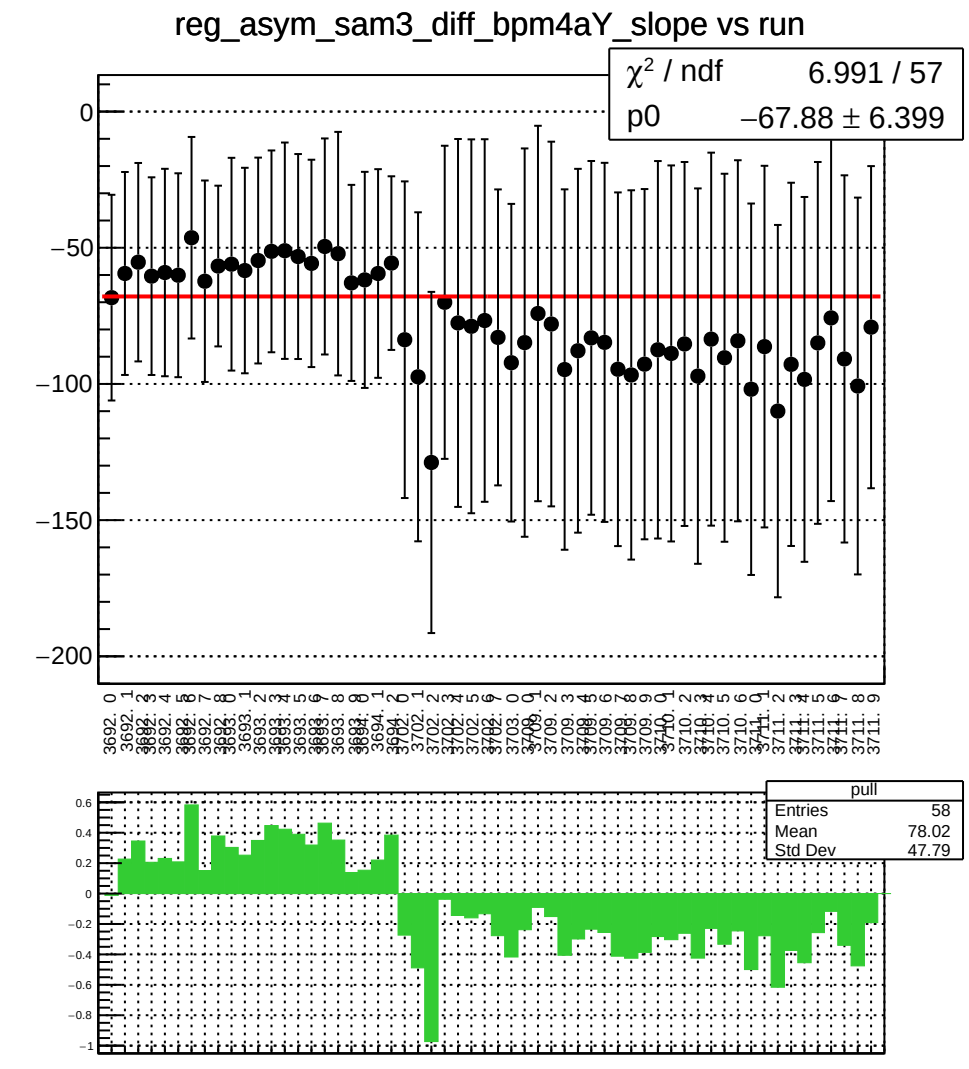

reg_asym_sam2_diff_bpm4eY_slope vs run
χ^2 / ndf 5.46 / 57
p0 252.1 ± 12.83
pull
Entries 58
Mean 388.1
Std Dev 361.9

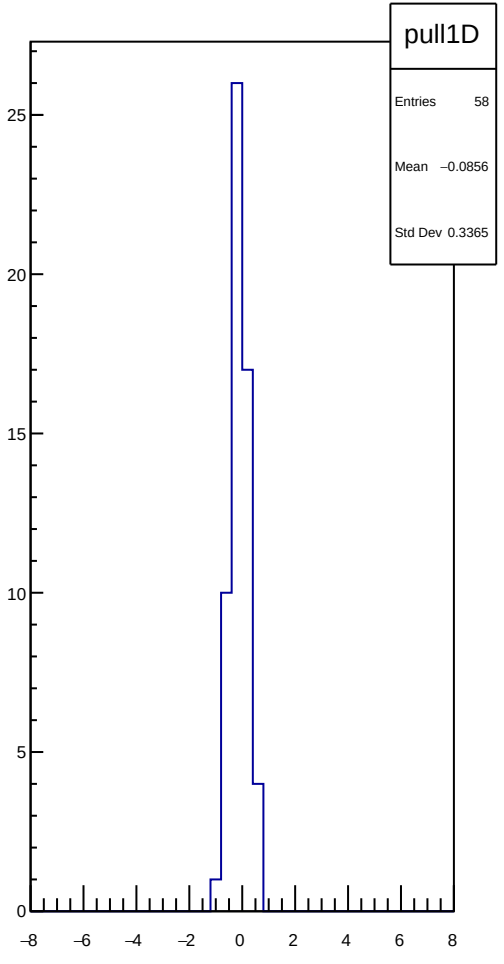

pull1D
Entries 58
Mean −0.007516
Std Dev 0.3067

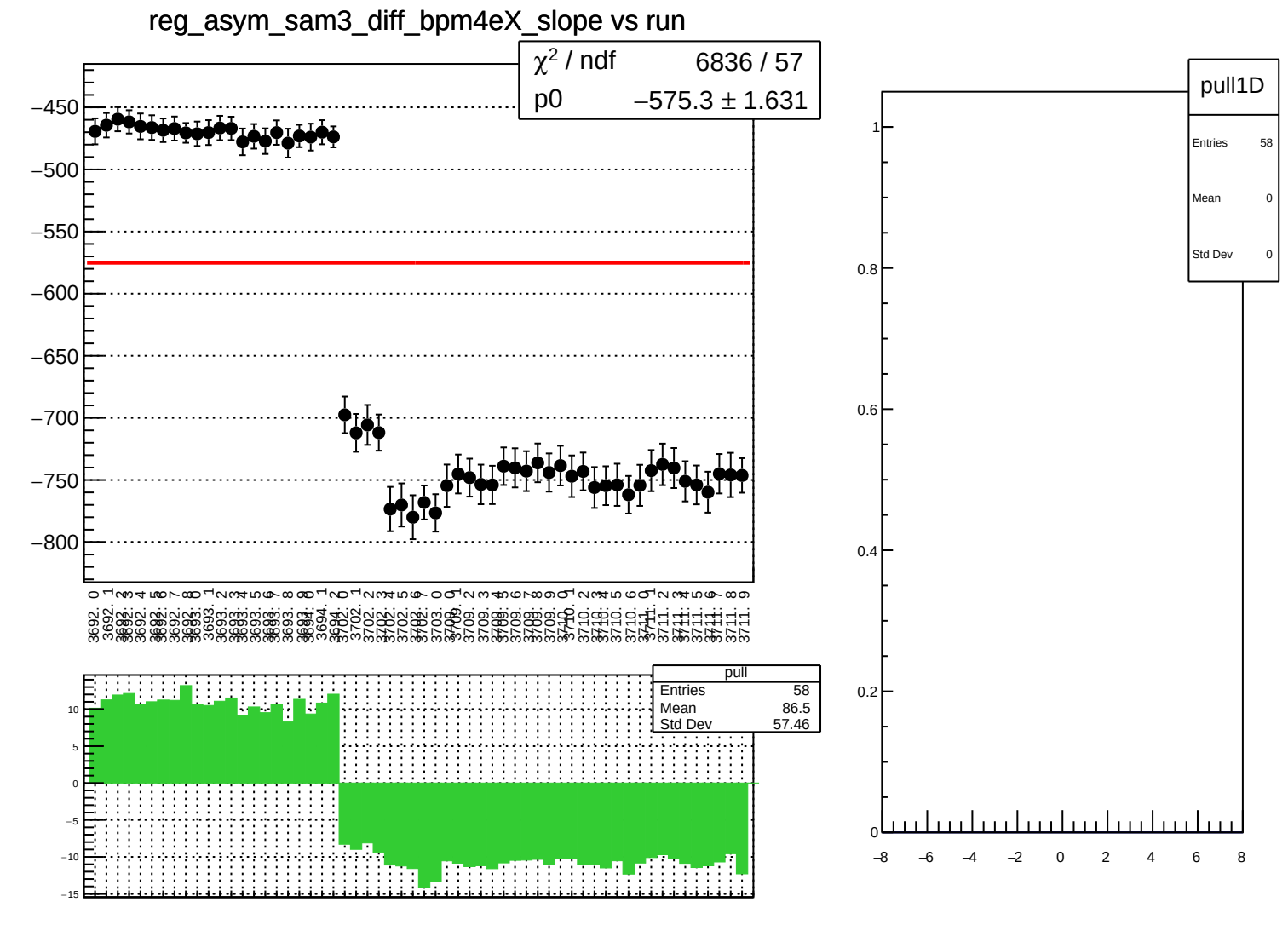

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 9.09 / 57
p0 10.45 ± 1.58
pull
Entries 58
Mean 91.29
Std Dev 42.25

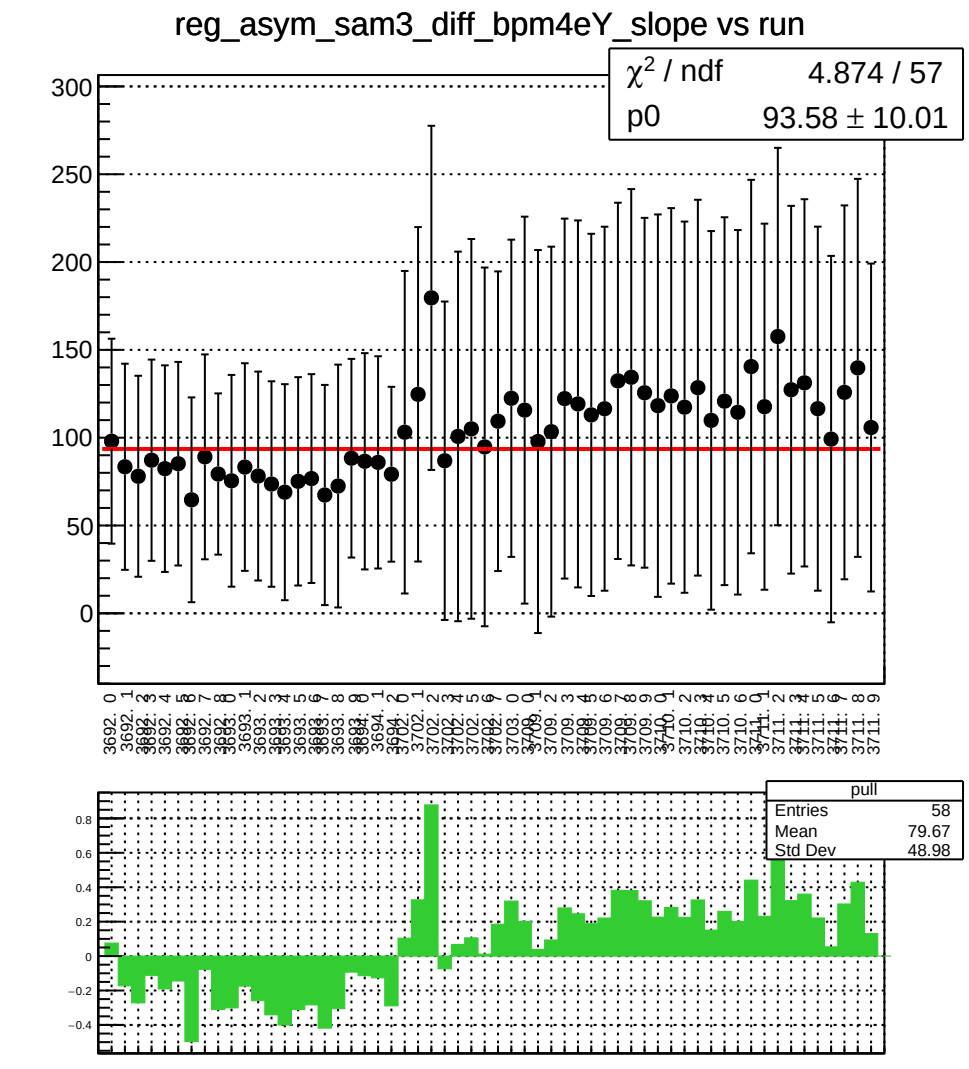

pull1D
Entries 58
Mean 0.02445
Std Dev 0.3951

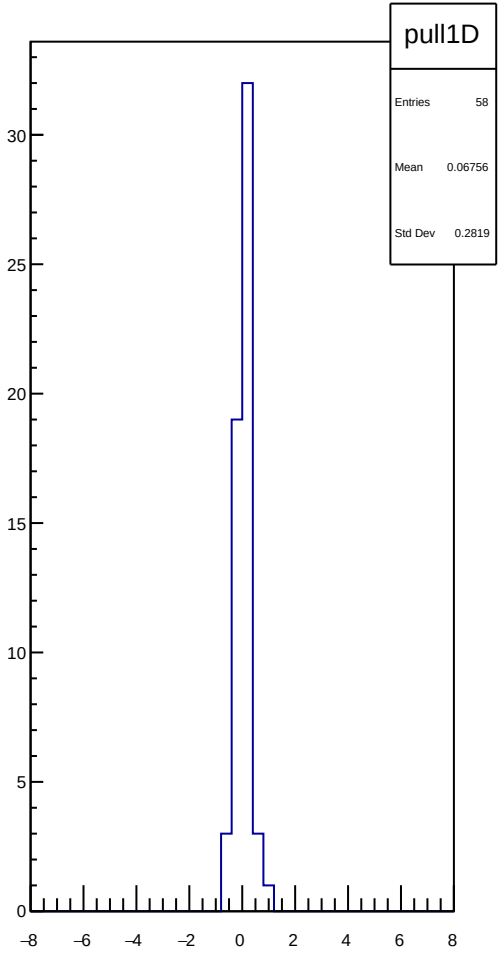

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 18.28 / 57
p0 79.02 ± 8.354
pull
Entries 58
Mean 63.8
Std Dev 40.34
pull1D
Entries 58
Mean 0.07123
Std Dev 0.5568

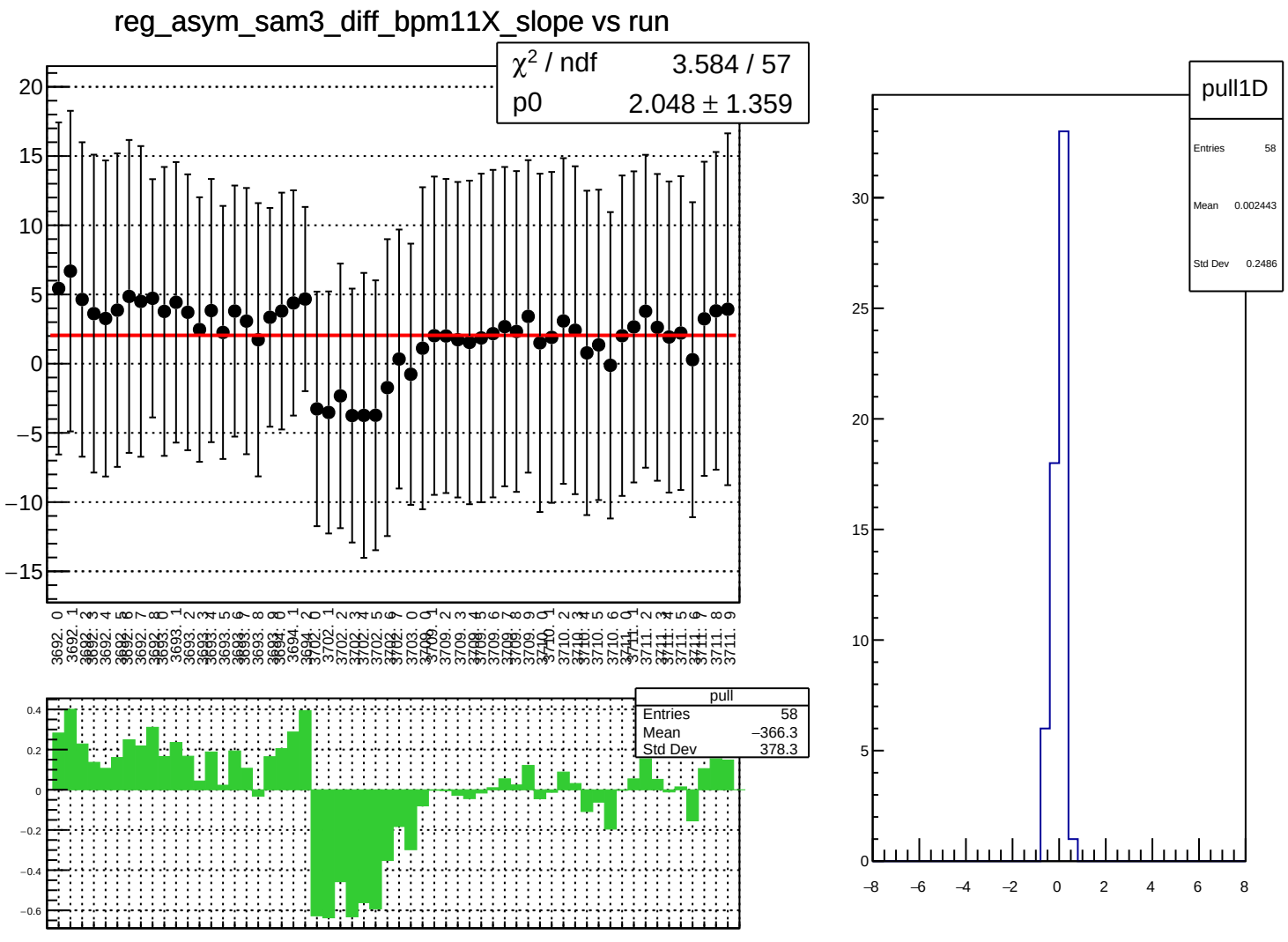

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 6.991 / 57
p0 −67.88 ± 6.399
pull
Entries 58
Mean 78.02
Std Dev 47.79

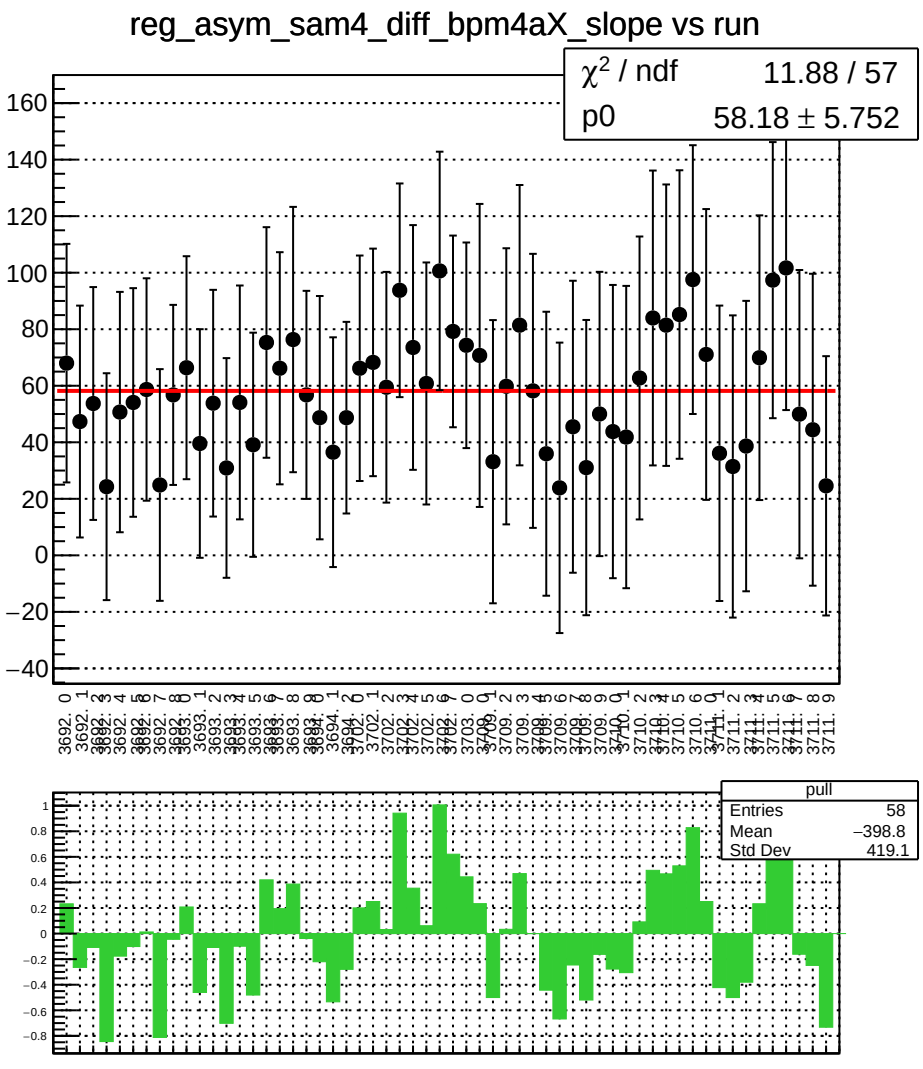

pull1D
Entries 58
Mean −0.0856
Std Dev 0.3365

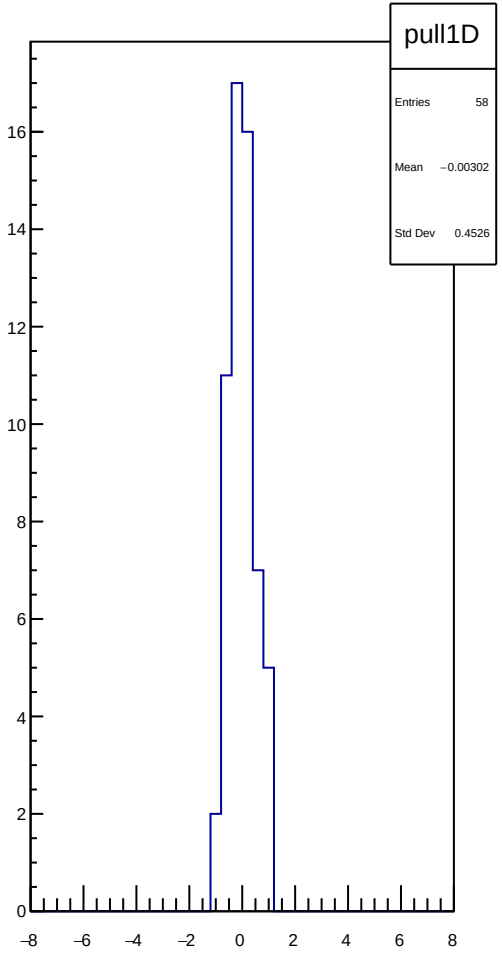

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 6836 / 57
p0 −575.3 ± 1.631
pull
Entries 58
Mean 86.5
Std Dev 57.46
pull1D
Entries 58
Mean 0
Std Dev 0

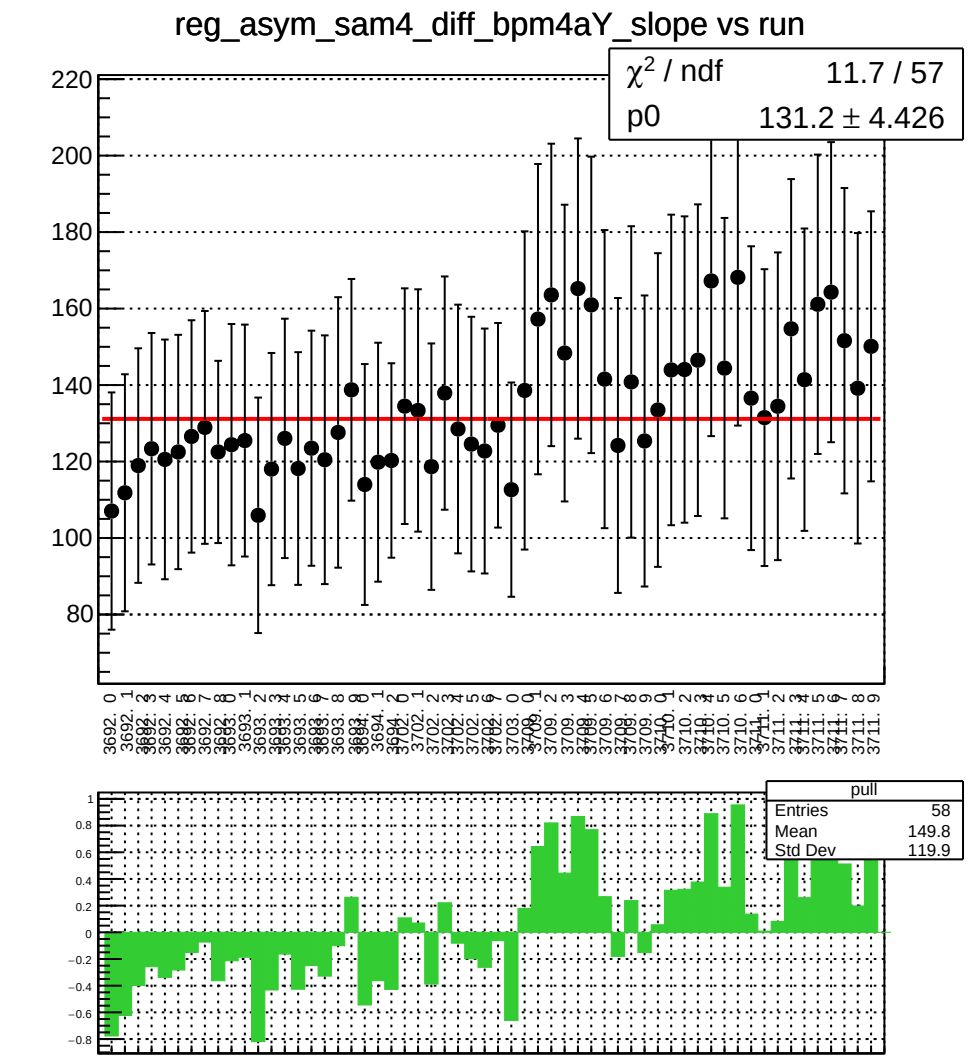

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.874 / 57
p0 93.58 ± 10.01
pull
Entries 58
Mean 79.67
Std Dev 48.98

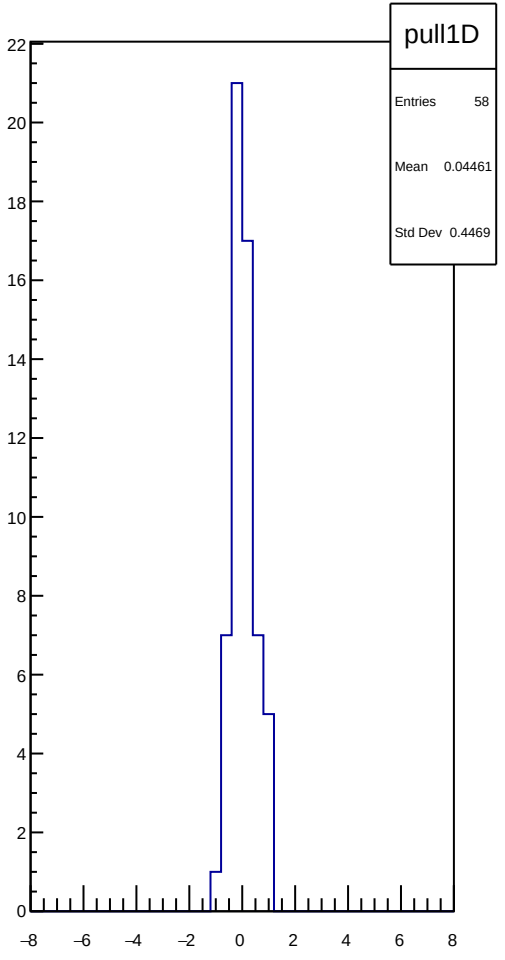

pull1D
Entries 58
Mean 0.06756
Std Dev 0.2819

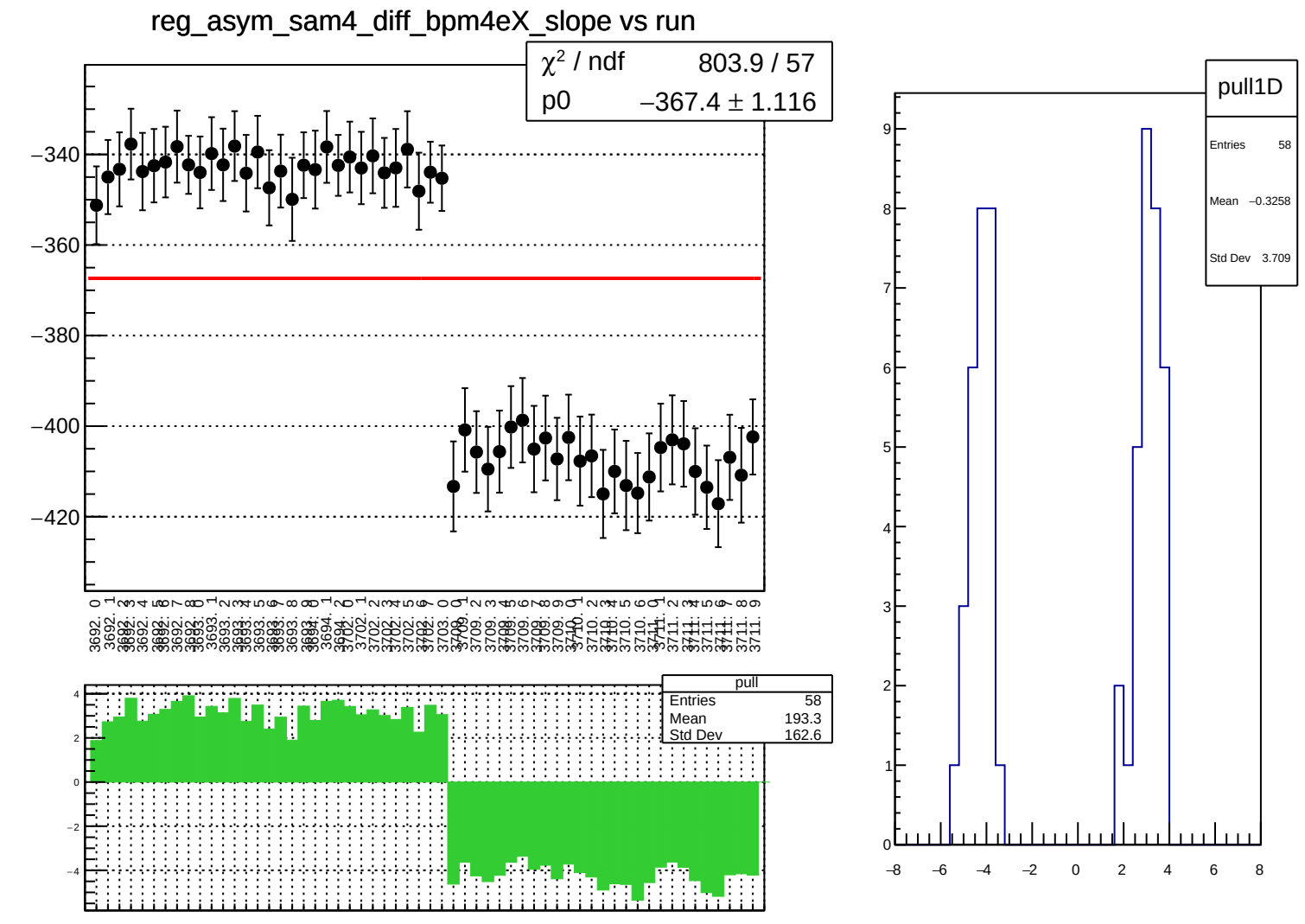

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 3.584 / 57
p0 2.048 ± 1.359
pull
Entries 58
Mean −366.3
Std Dev 378.3
pull1D
Entries 58
Mean 0.002443
Std Dev 0.2486

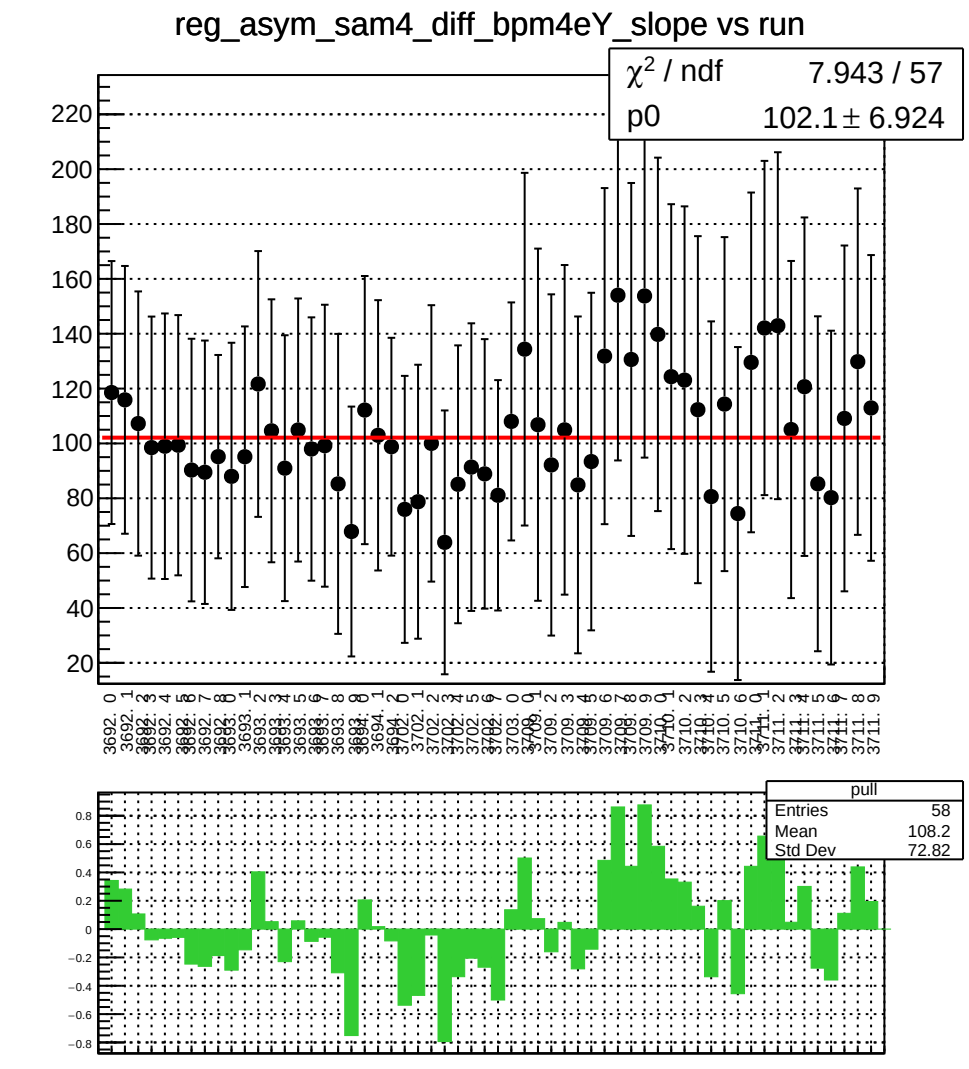

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 11.88 / 57
p0 58.18 ± 5.752
pull
Entries 58
Mean −398.8
Std Dev 419.1

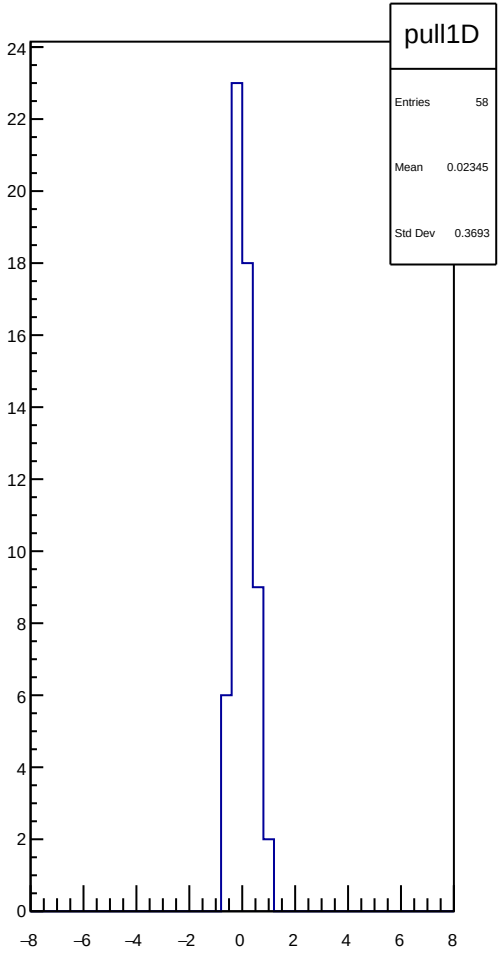

pull1D
Entries 58
Mean −0.00302
Std Dev 0.4526

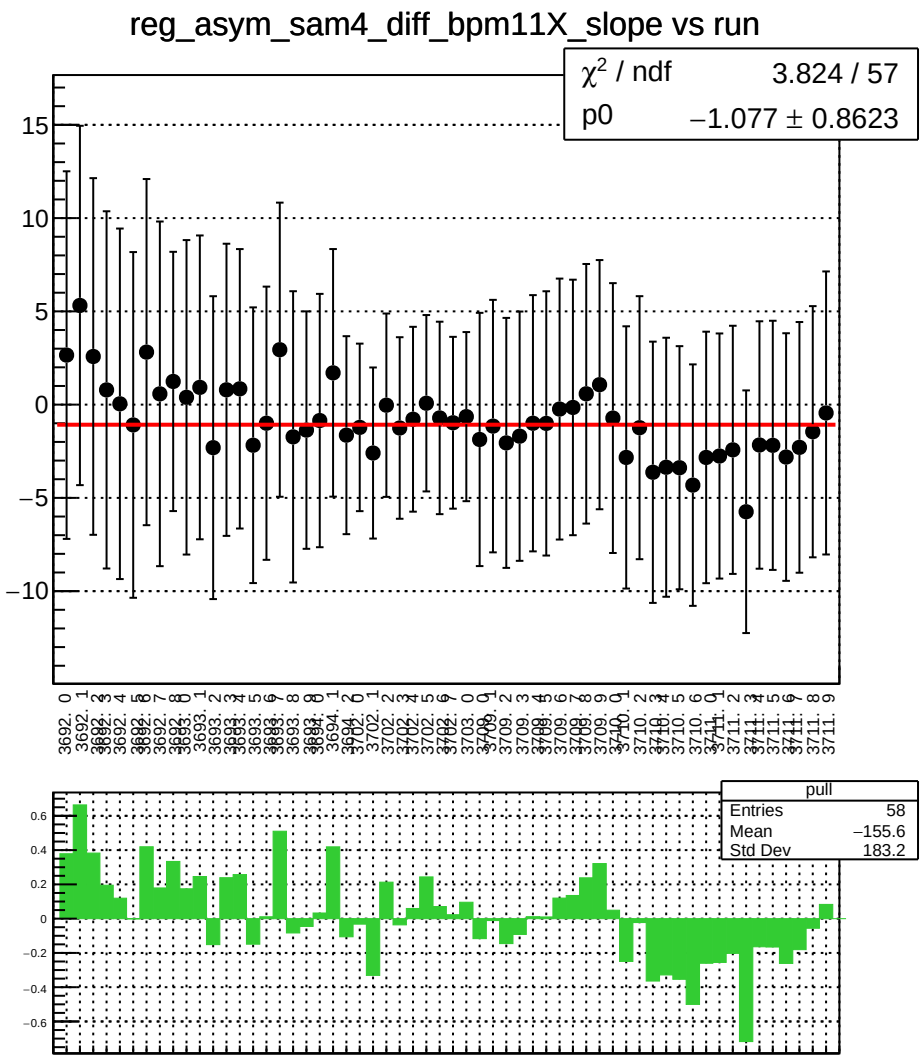

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 11.7 / 57
p0 131.2 ± 4.426
pull
Entries 58
Mean 149.8
Std Dev 119.9

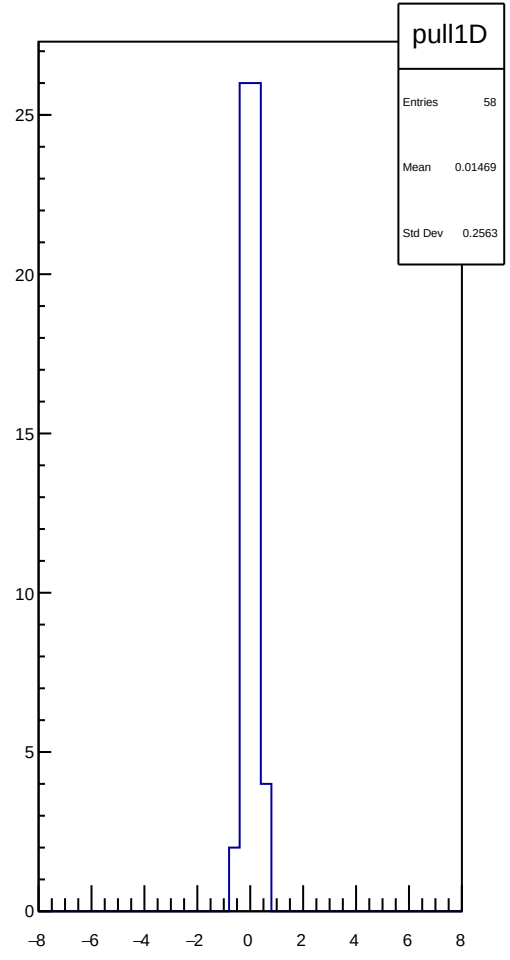

pull1D
Entries 58
Mean 0.04461
Std Dev 0.4469

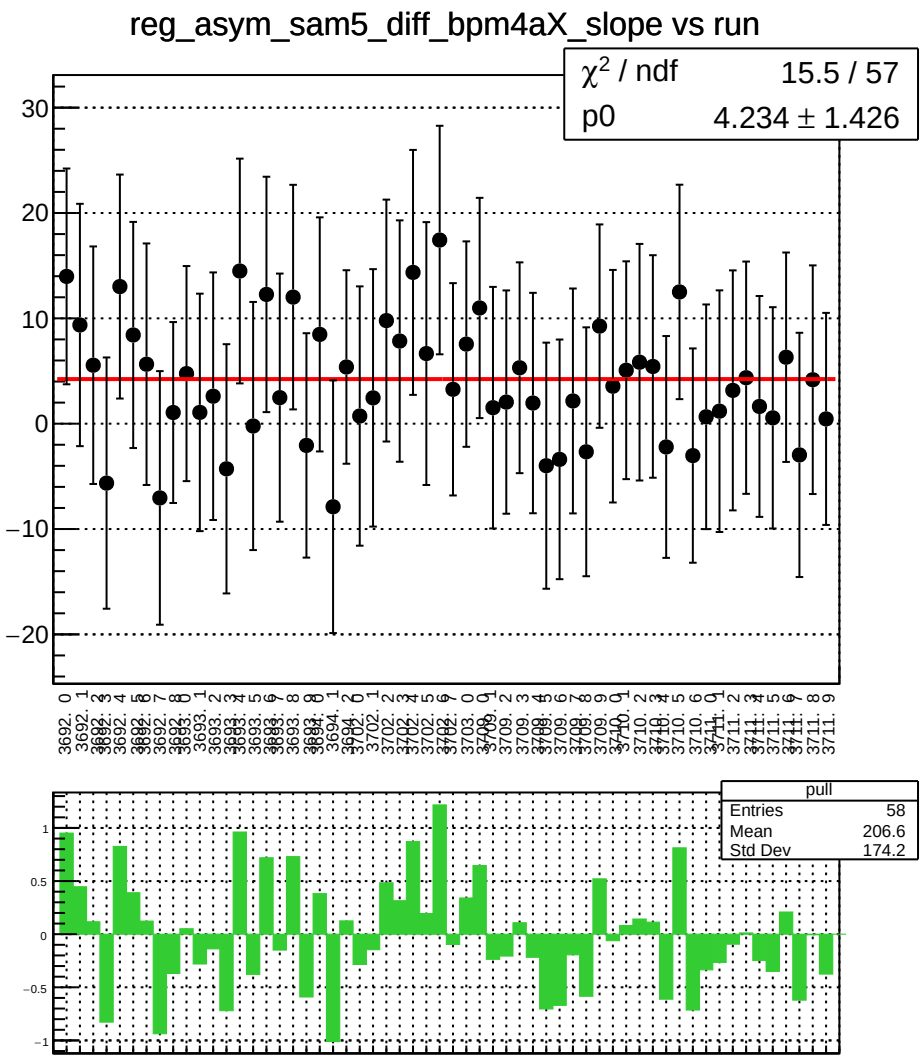

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 803.9 / 57
p0 −367.4 ± 1.116
−340
−360
−380
−400
−420
pull
Entries 58
Mean 193.3
Std Dev 162.6
pull1D
Entries 58
Mean −0.3258
Std Dev 3.709

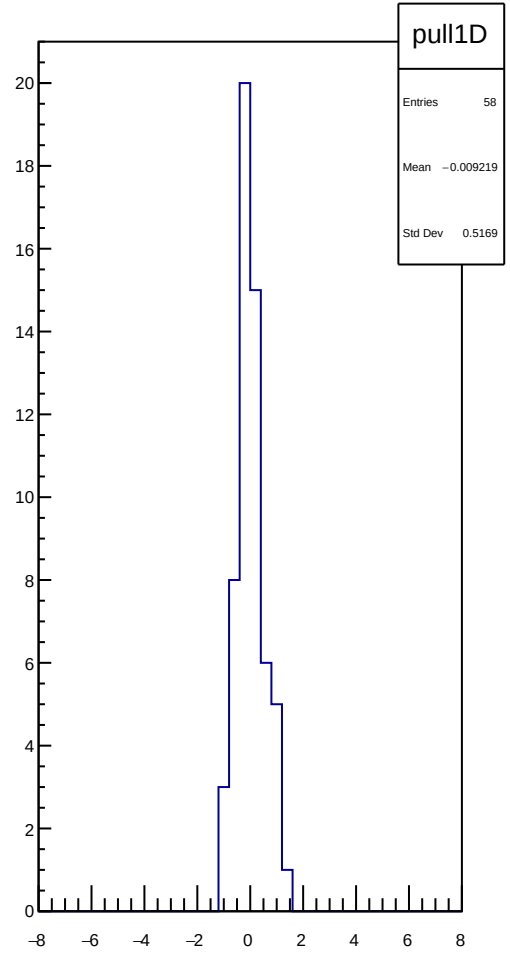

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 7.943 / 57
p0 102.1 ± 6.924
pull
Entries 58
Mean 108.2
Std Dev 72.82

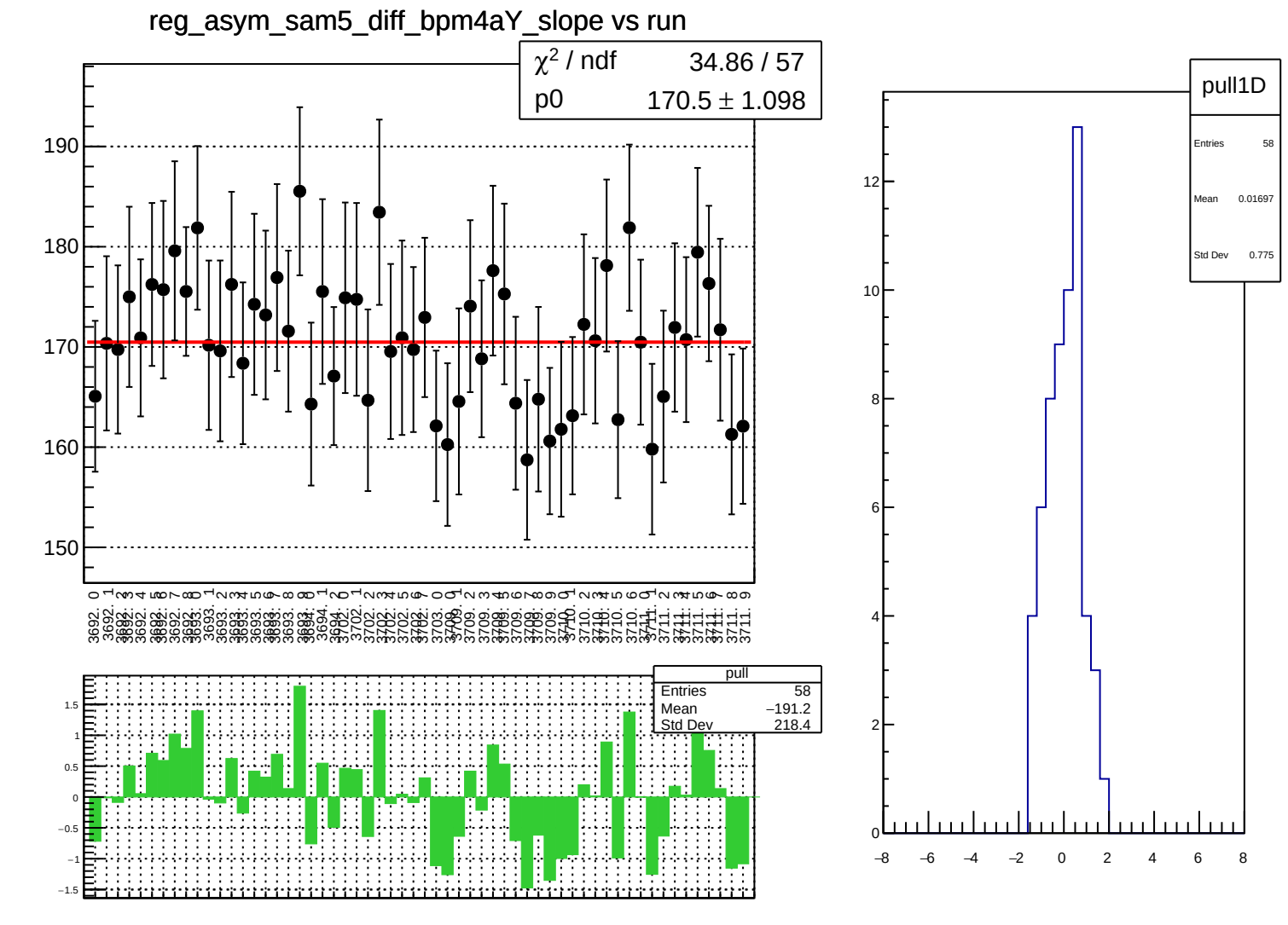

pull1D
Entries 58
Mean 0.02345
Std Dev 0.3693

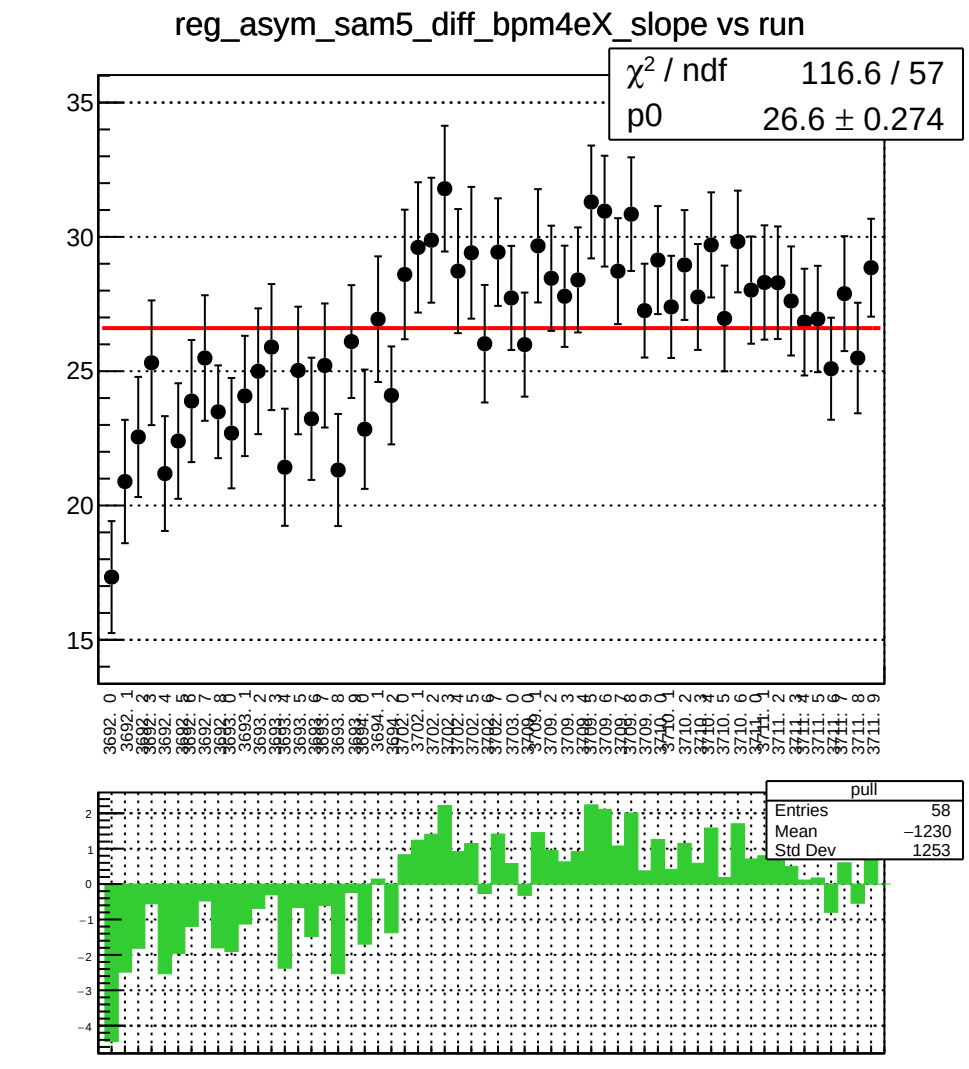

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 3.824 / 57
p0 −1.077 ± 0.8623
pull
Entries 58
Mean −155.6
Std Dev 183.2

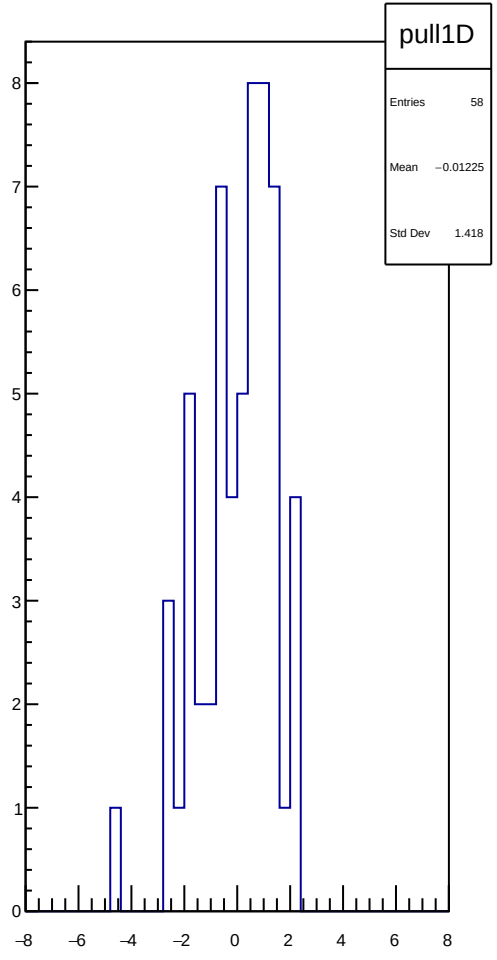

pull1D
Entries 58
Mean 0.01469
Std Dev 0.2563

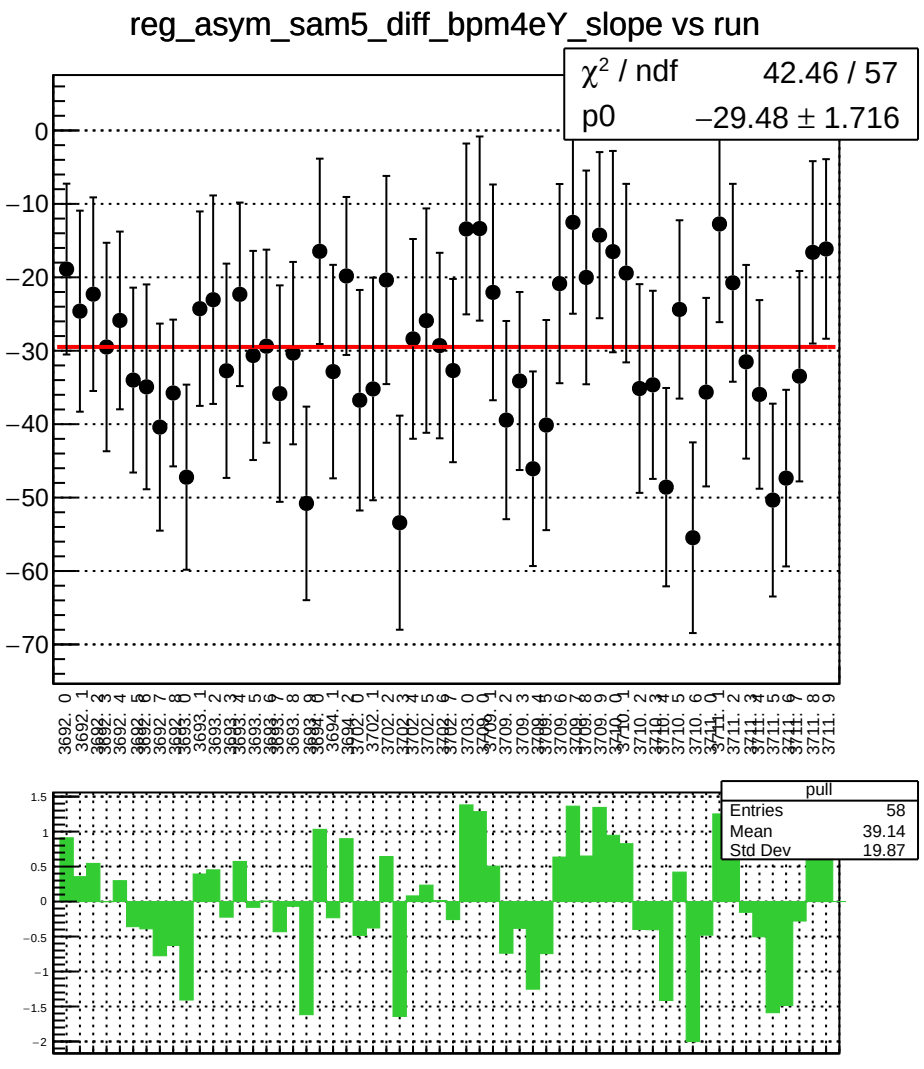

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 15.5 / 57
p0 4.234 ± 1.426
pull
Entries 58
Mean 206.6
Std Dev 174.2

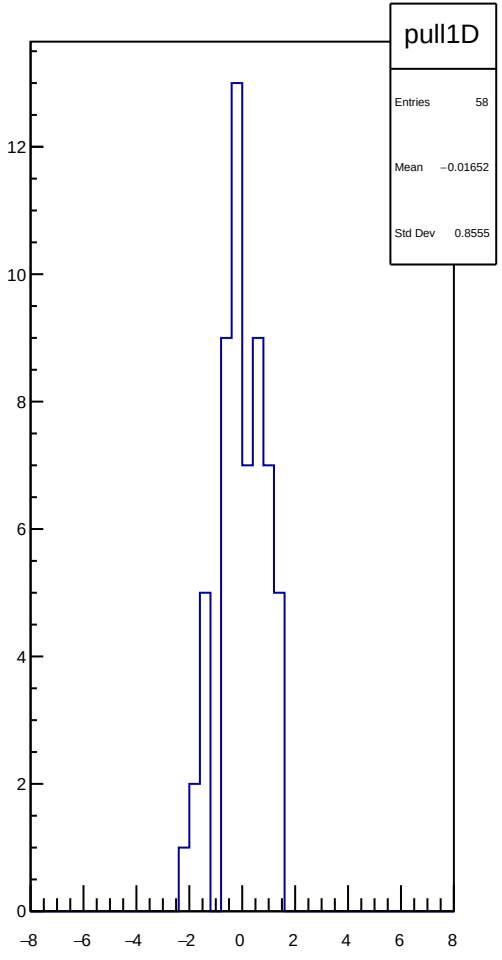

pull1D
Entries 58
Mean −0.009219
Std Dev 0.5169

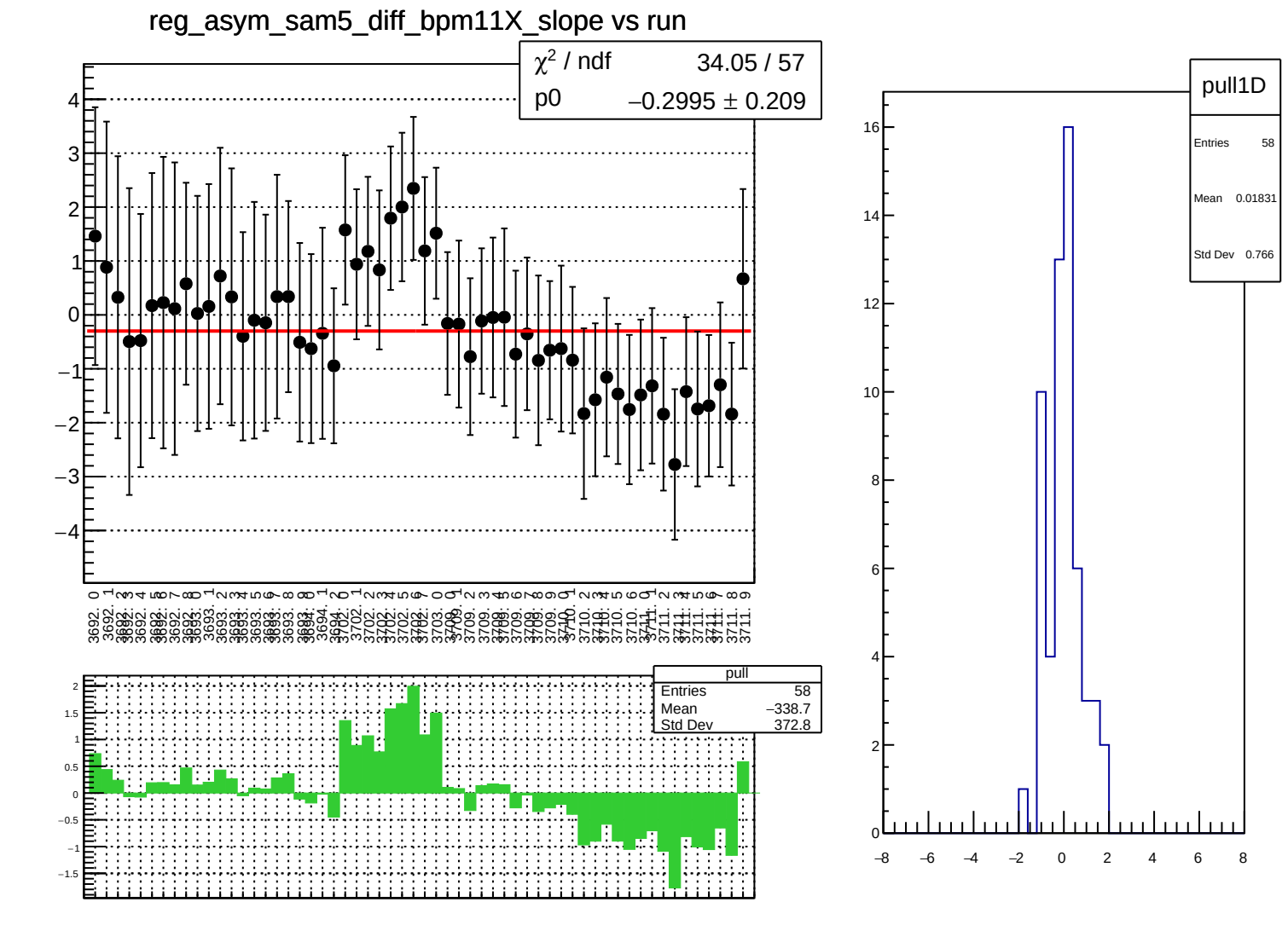

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 34.86 / 57
p0 170.5 ± 1.098
190
180
170
160
150
pull
Entries 58
Mean −191.2
Std Dev 218.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 58
Mean 0.01697
Std Dev 0.775
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

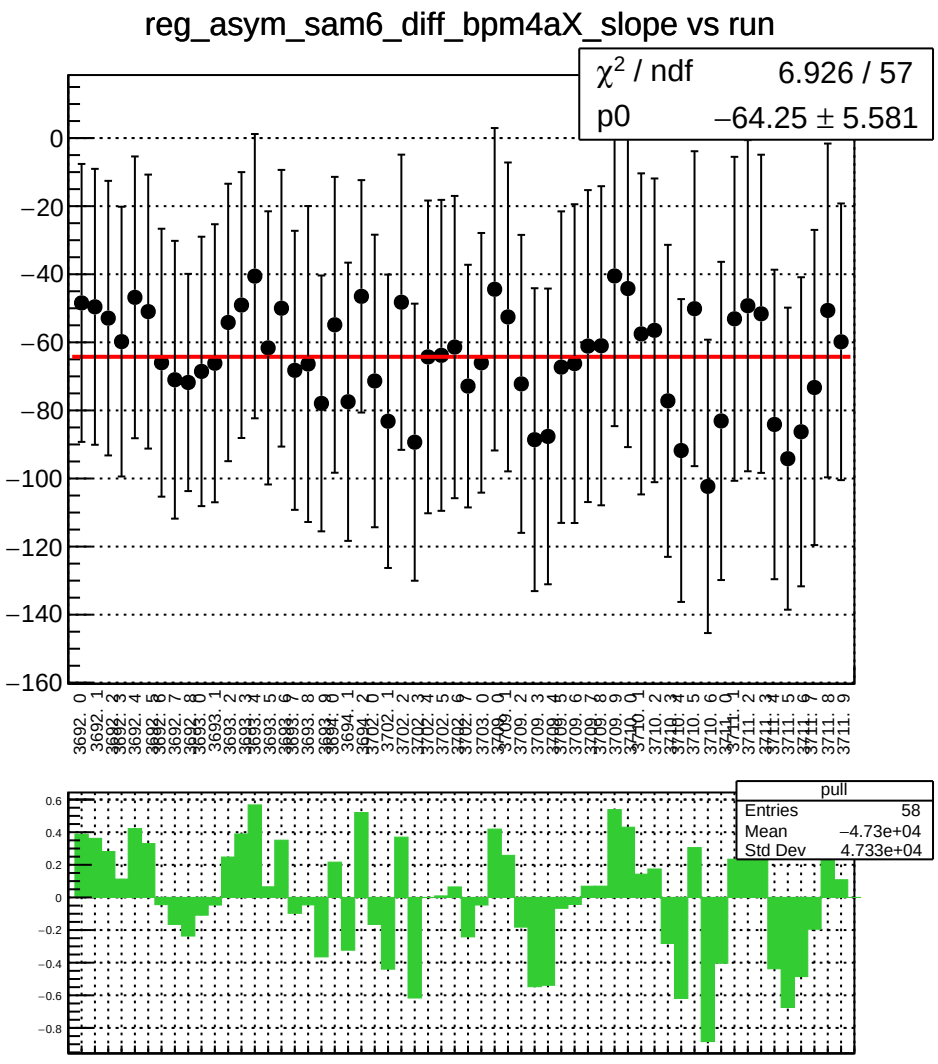

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 116.6 / 57
p0 26.6 ± 0.274
pull
Entries 58
Mean −1230
Std Dev 1253

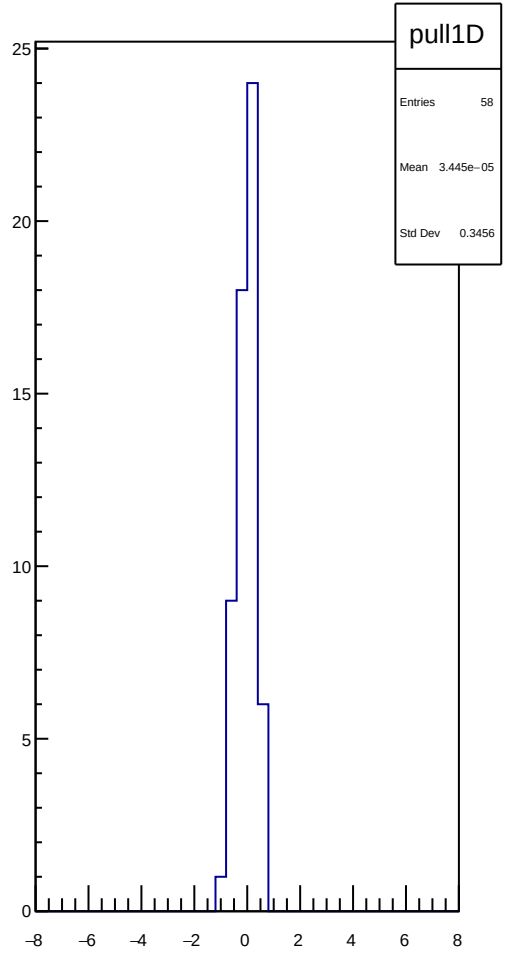

pull1D
Entries 58
Mean −0.01225
Std Dev 1.418

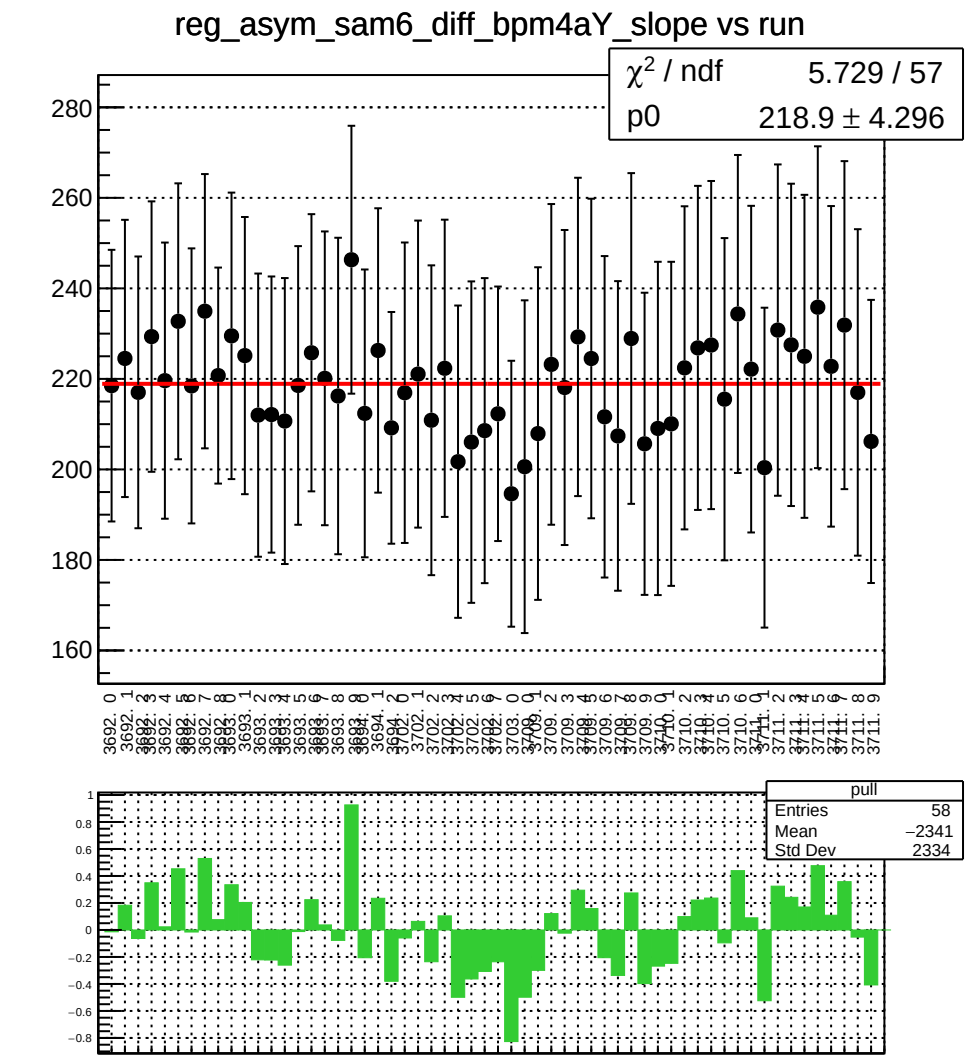

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 42.46 / 57
p0 −29.48 ± 1.716
pull
Entries 58
Mean 39.14
Std Dev 19.87

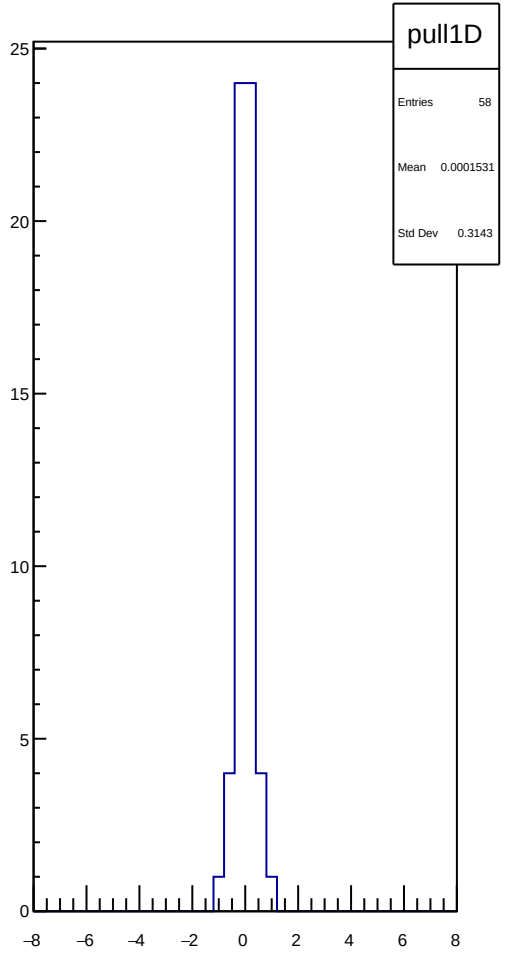

pull1D
Entries 58
Mean −0.01652
Std Dev 0.8555

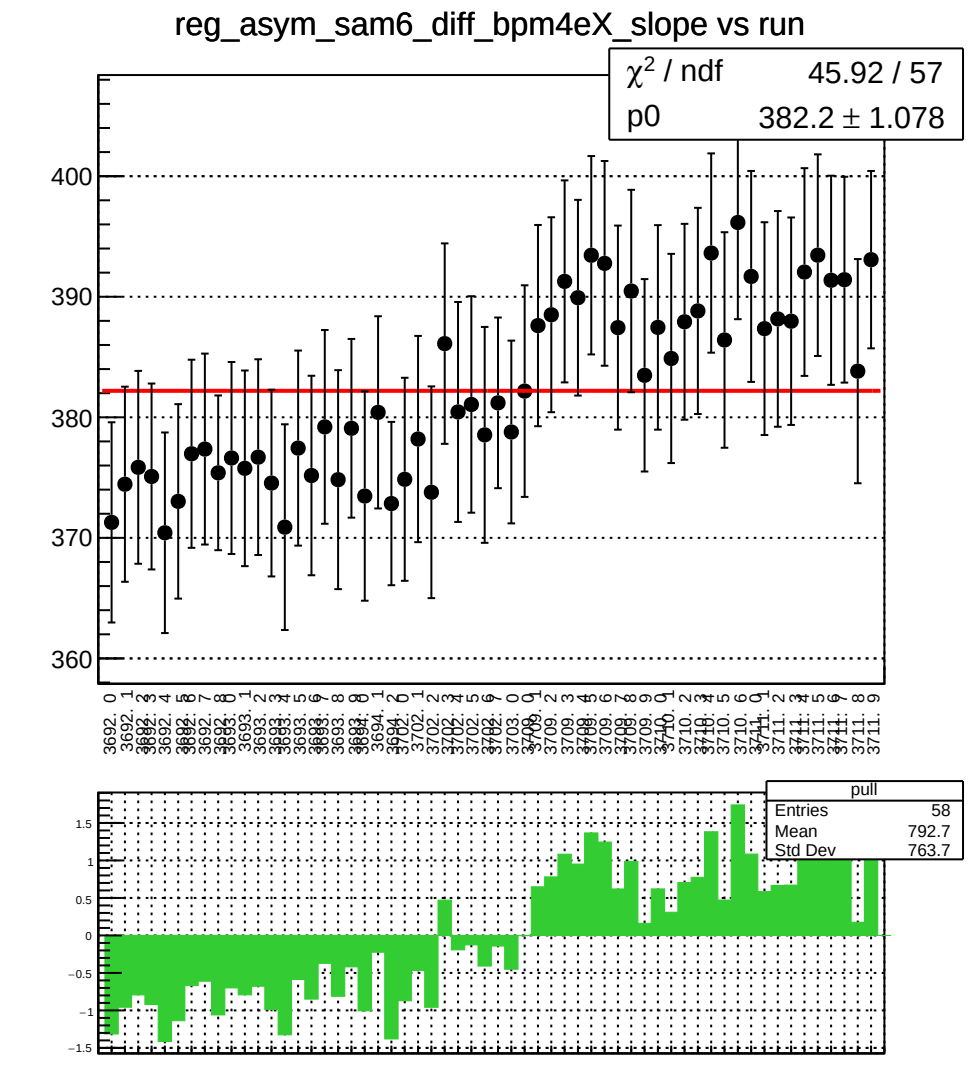

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 34.05 / 57
p0 −0.2995 ± 0.209
pull
Entries 58
Mean −338.7
Std Dev 372.8
pull1D
Entries 58
Mean 0.01831
Std Dev 0.766

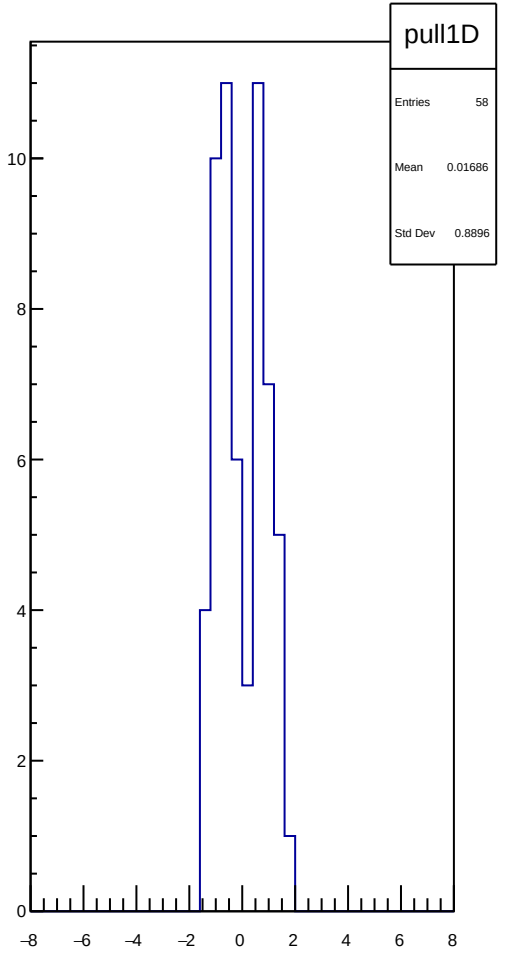

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 6.926 / 57
p0 −64.25 ± 5.581
pull
Entries 58
Mean −4.73e+04
Std Dev 4.733e+04

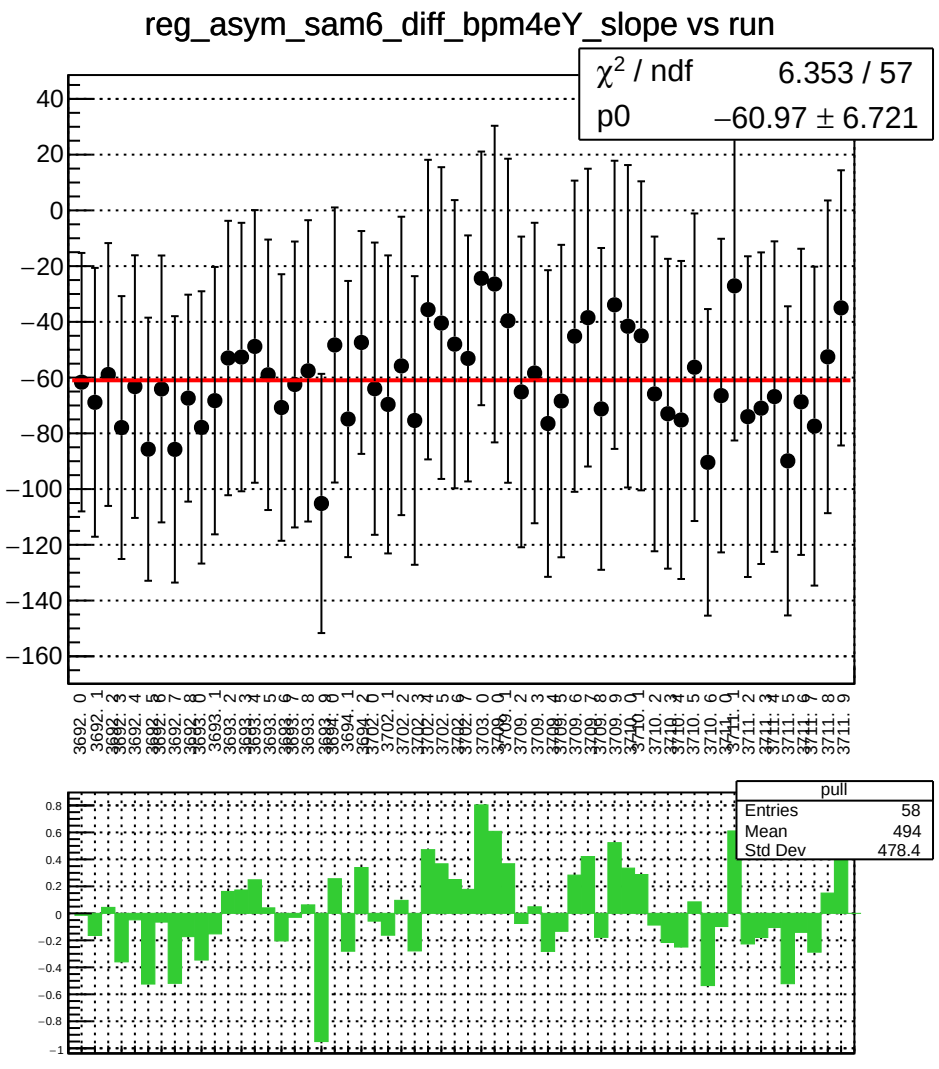

pull1D
Entries 58
Mean 3.445e−05
Std Dev 0.3456

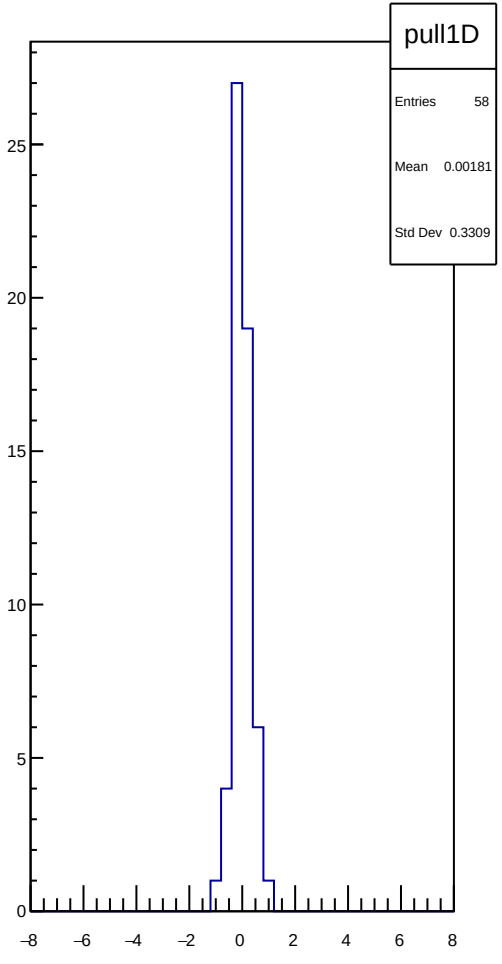

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 5.729 / 57
p0 218.9 ± 4.296
pull
Entries 58
Mean −2341
Std Dev 2334

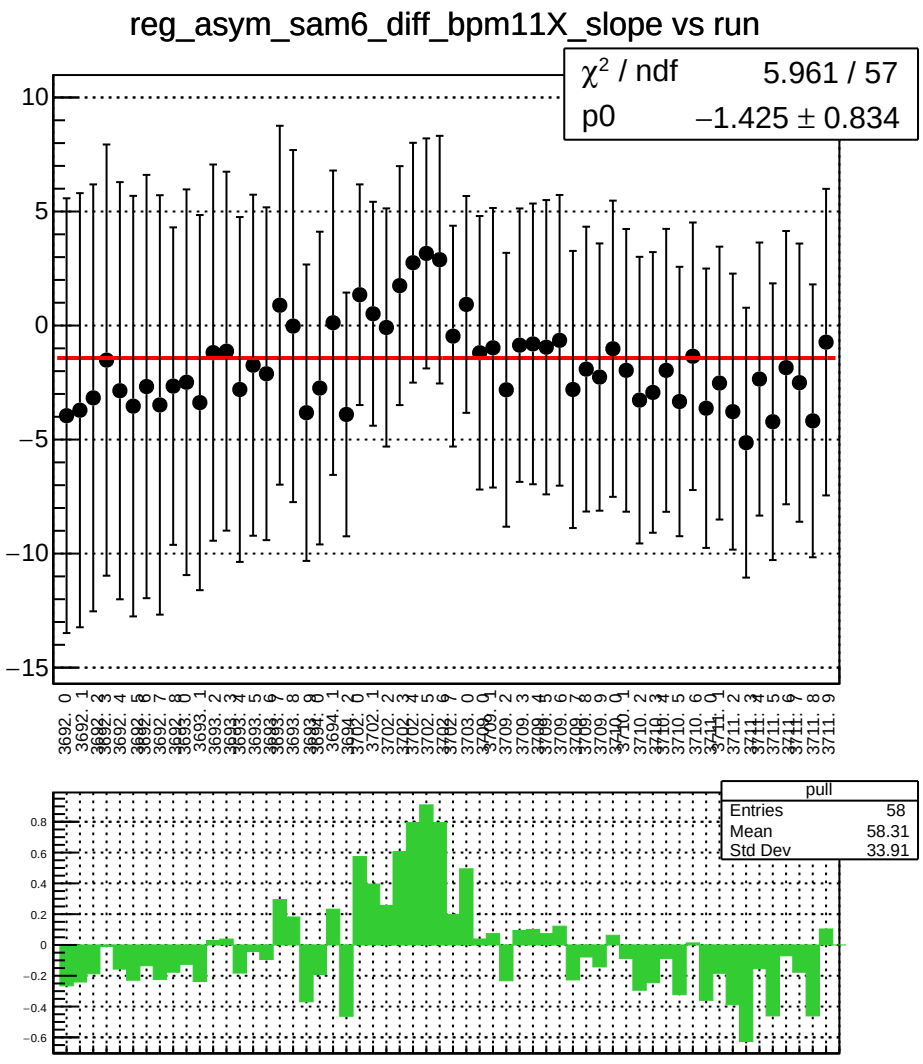

pull1D
Entries 58
Mean 0.0001531
Std Dev 0.3143

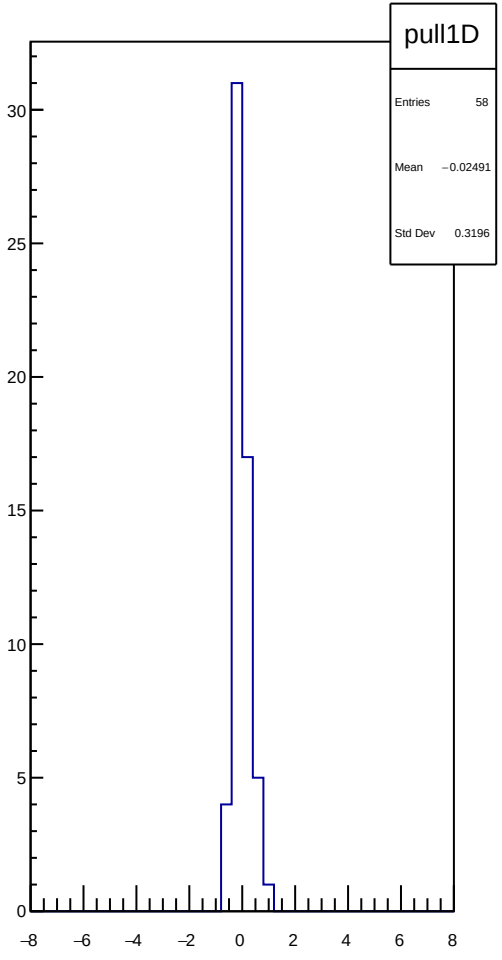

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 45.92 / 57
p0 382.2 ± 1.078
400
390
380
370
360
pull
Entries 58
Mean 792.7
Std Dev 763.7
1.5
1
0.5
0
−0.5
−1
−1.5

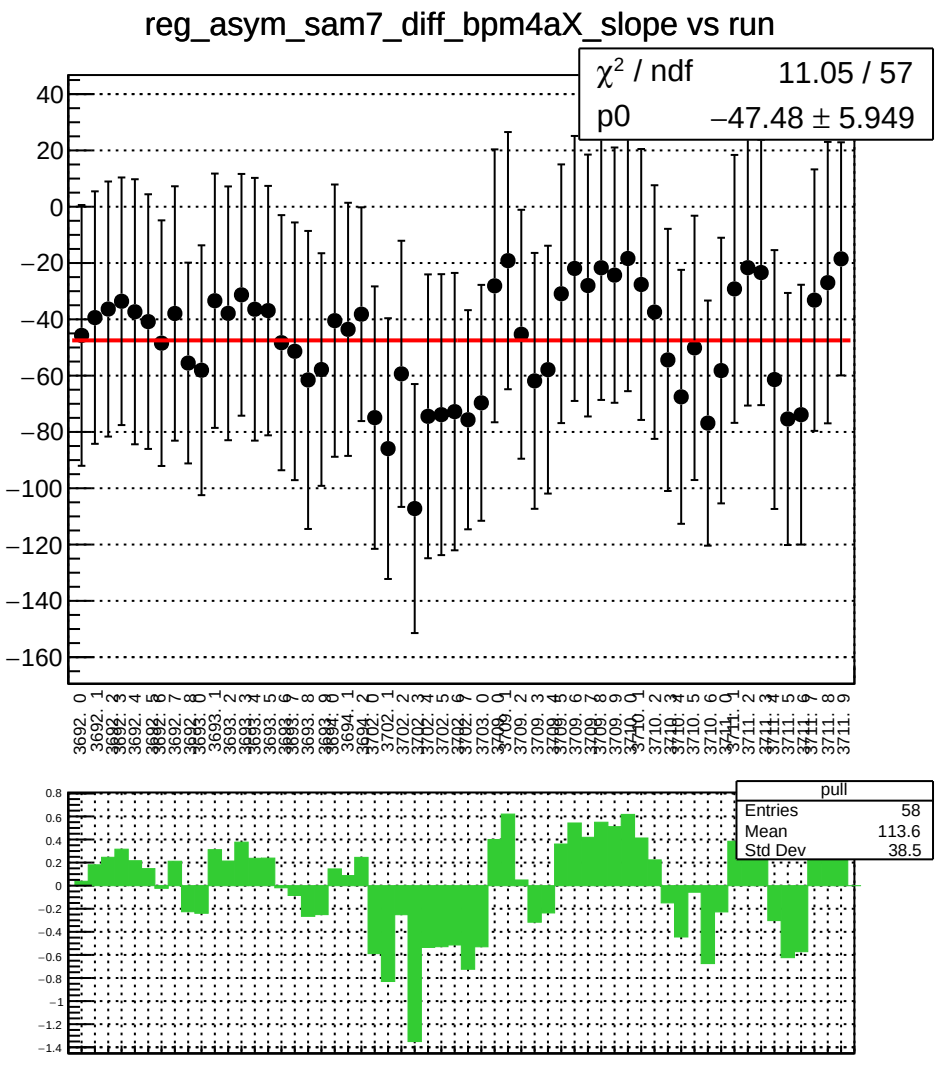

pull1D
Entries 58
Mean 0.01686
Std Dev 0.8896
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

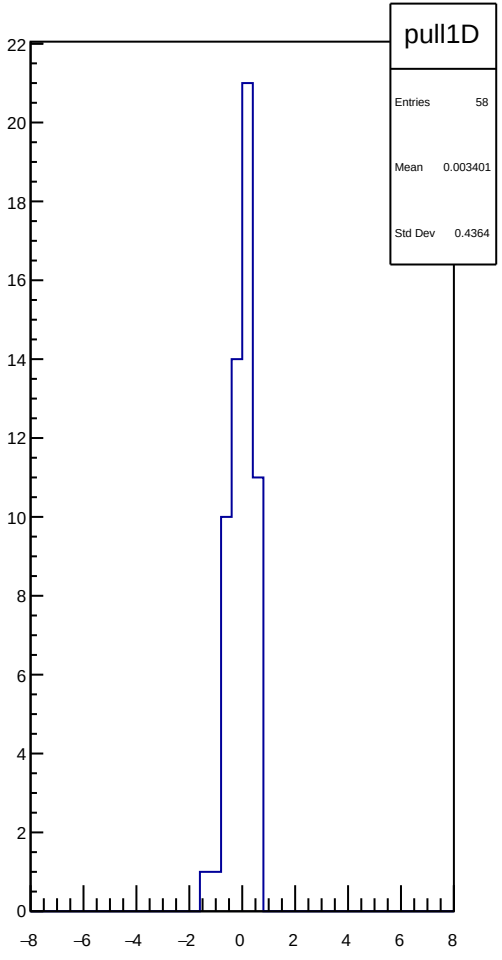

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 6.353 / 57
p0 −60.97 ± 6.721
pull
Entries 58
Mean 494
Std Dev 478.4

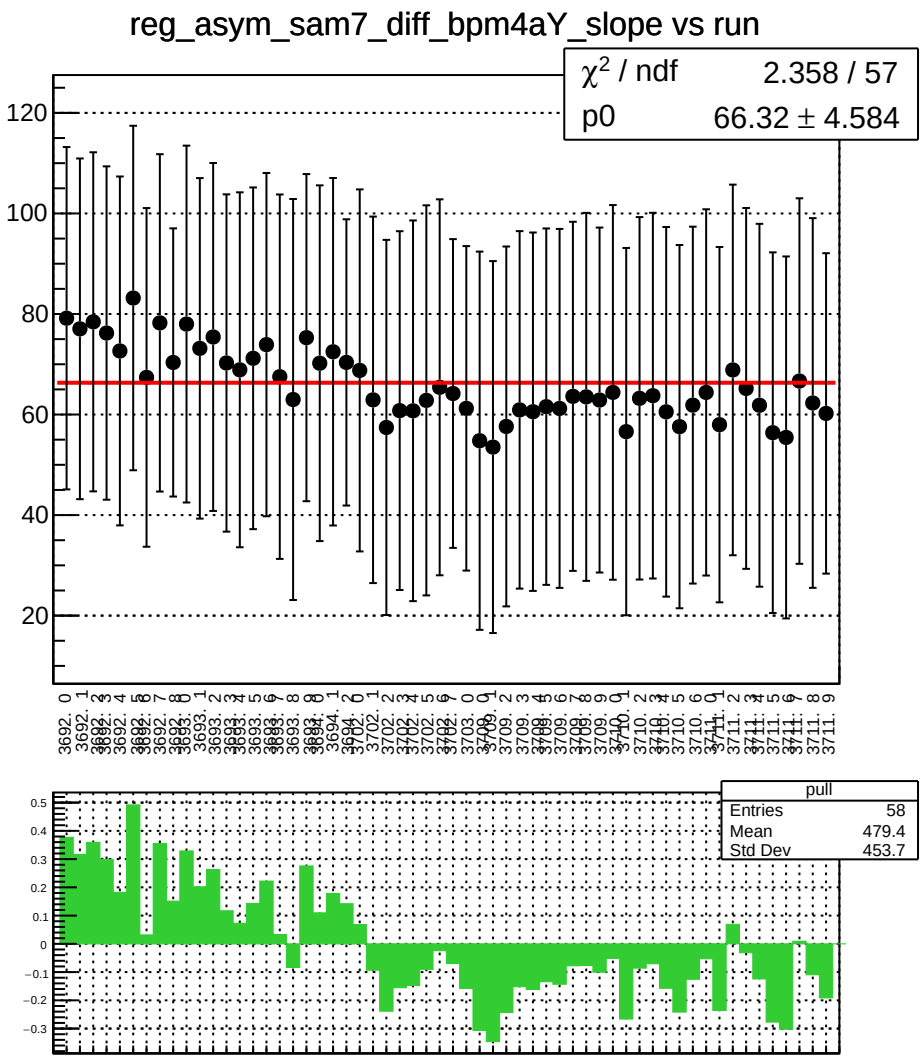

pull1D
Entries 58
Mean 0.00181
Std Dev 0.3309

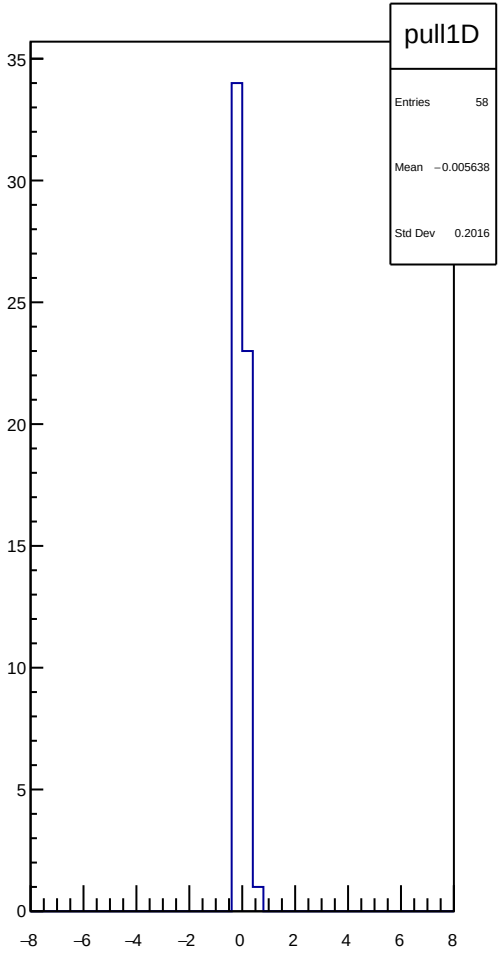

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 5.961 / 57
p0 −1.425 ± 0.834
pull
Entries 58
Mean 58.31
Std Dev 33.91

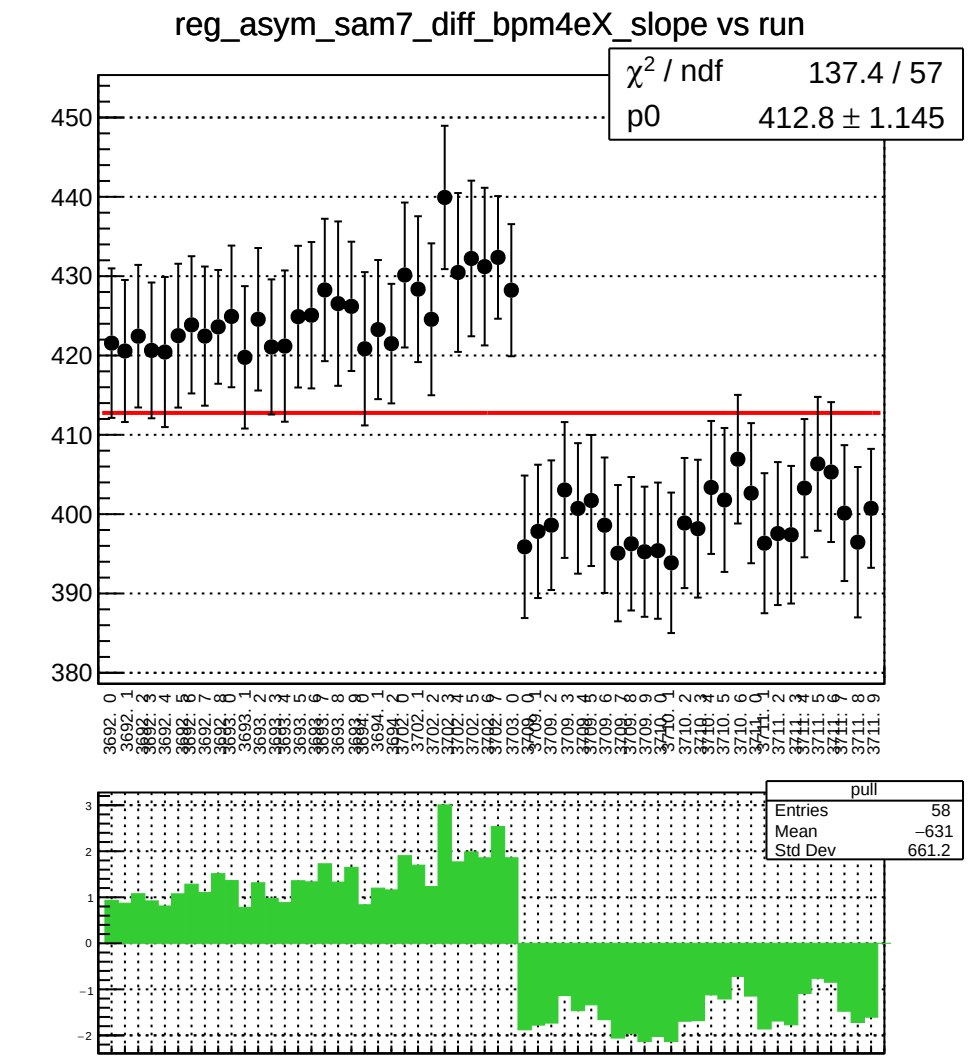

pull1D
Entries 58
Mean −0.02491
Std Dev 0.3196

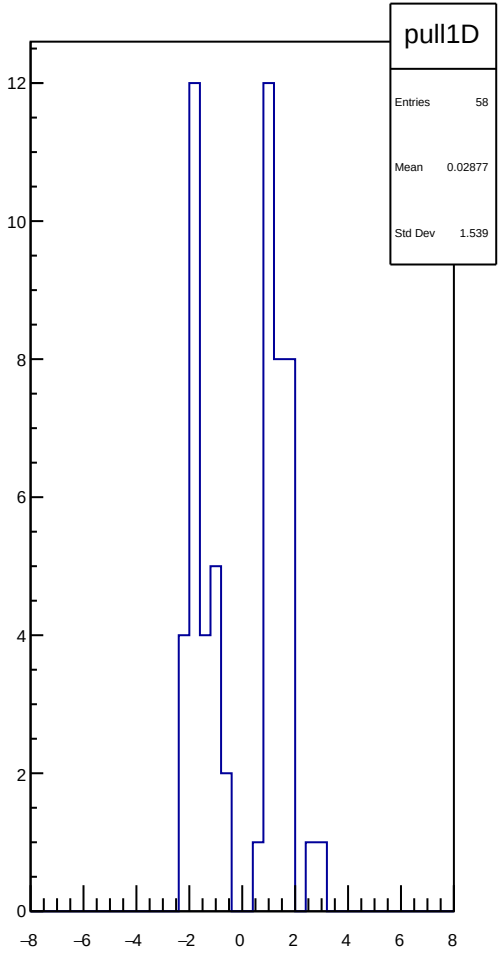

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 11.05 / 57
p0 −47.48 ± 5.949
pull
Entries 58
Mean 113.6
Std Dev 38.5

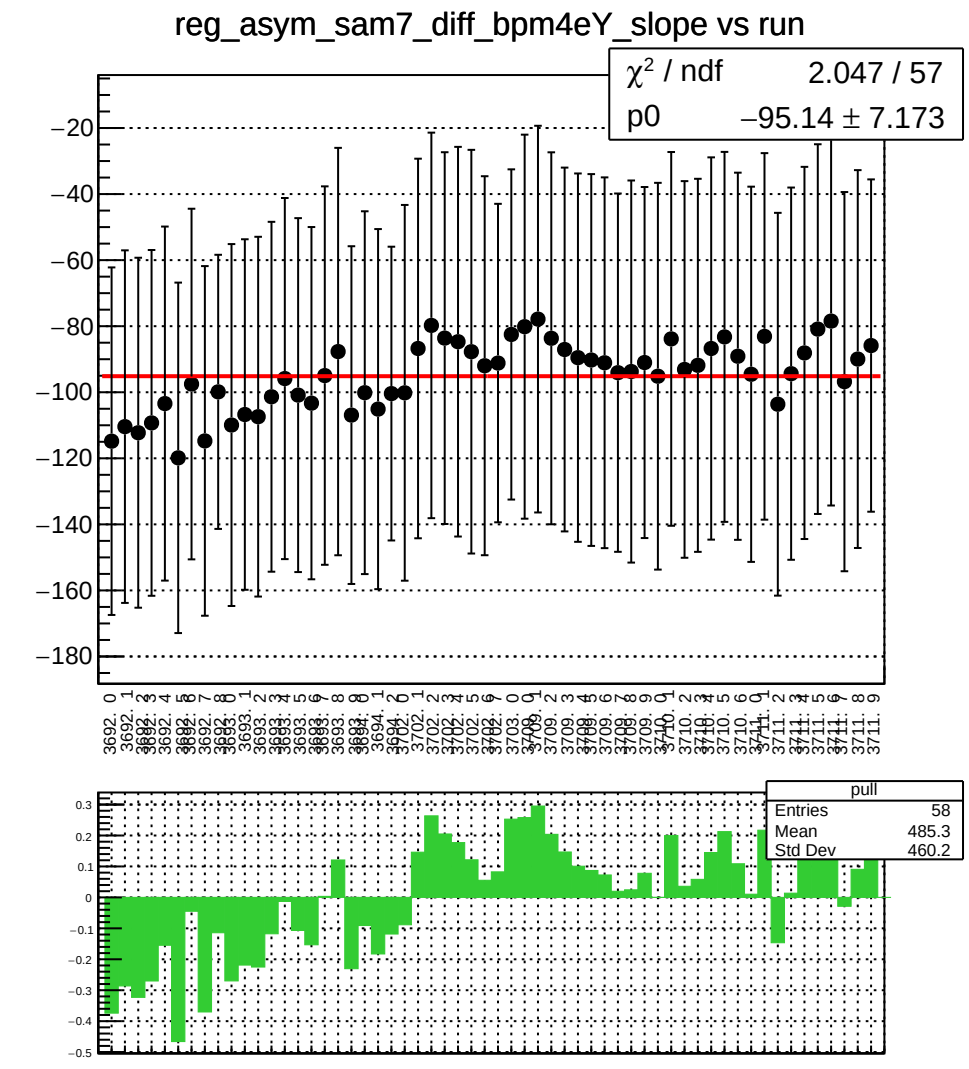

pull1D
Entries 58
Mean 0.003401
Std Dev 0.4364

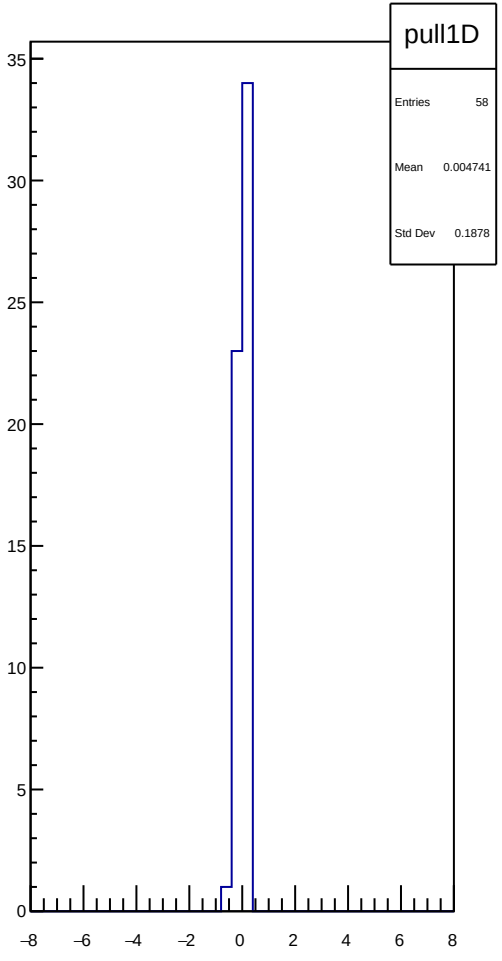

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.358 / 57
p0 66.32 ± 4.584
pull
Entries 58
Mean 479.4
Std Dev 453.7

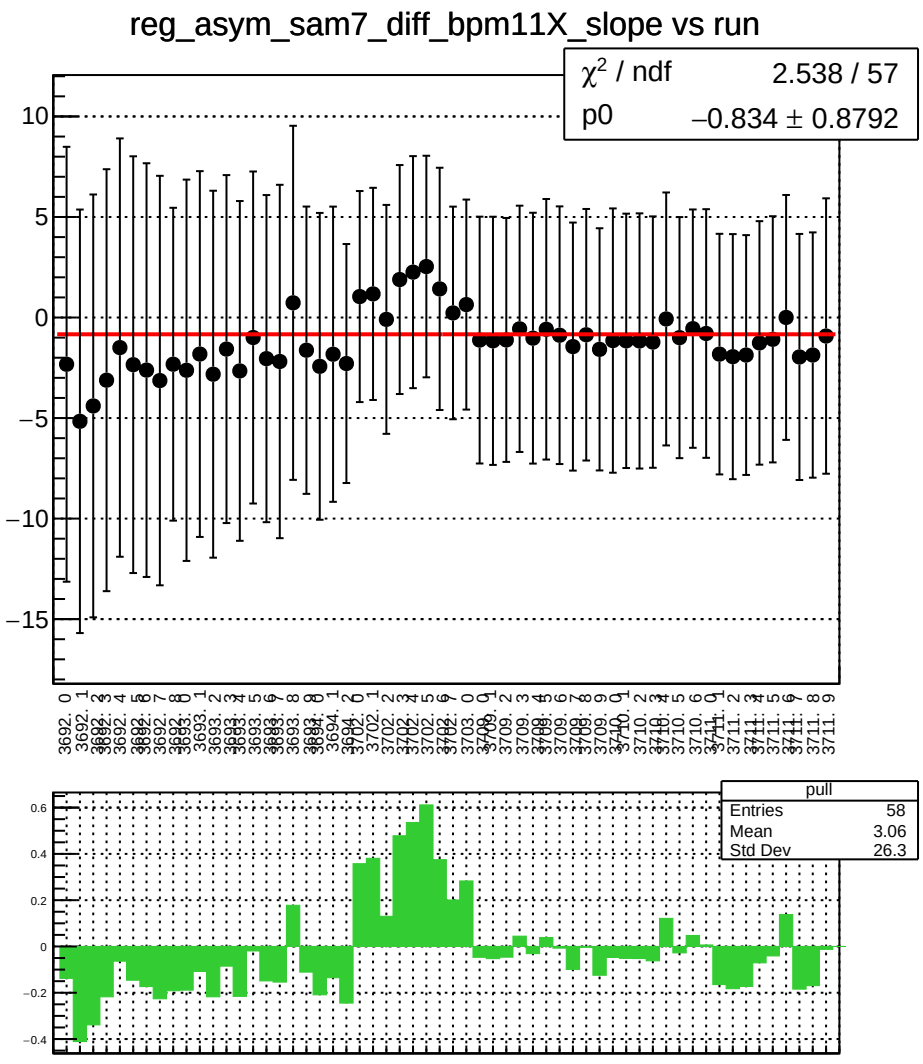

pull1D
Entries 58
Mean −0.005638
Std Dev 0.2016

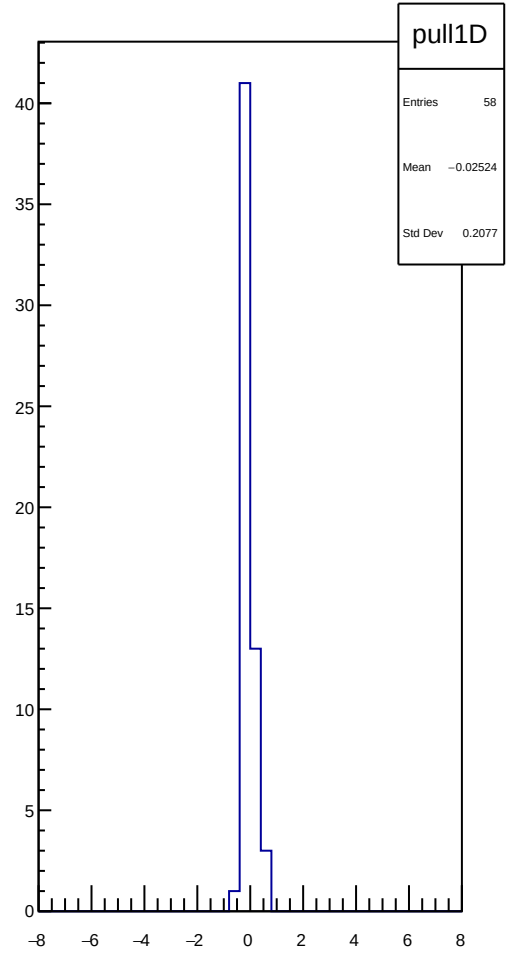

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 137.4 / 57
p0 412.8 ± 1.145
pull
Entries 58
Mean −631
Std Dev 661.2

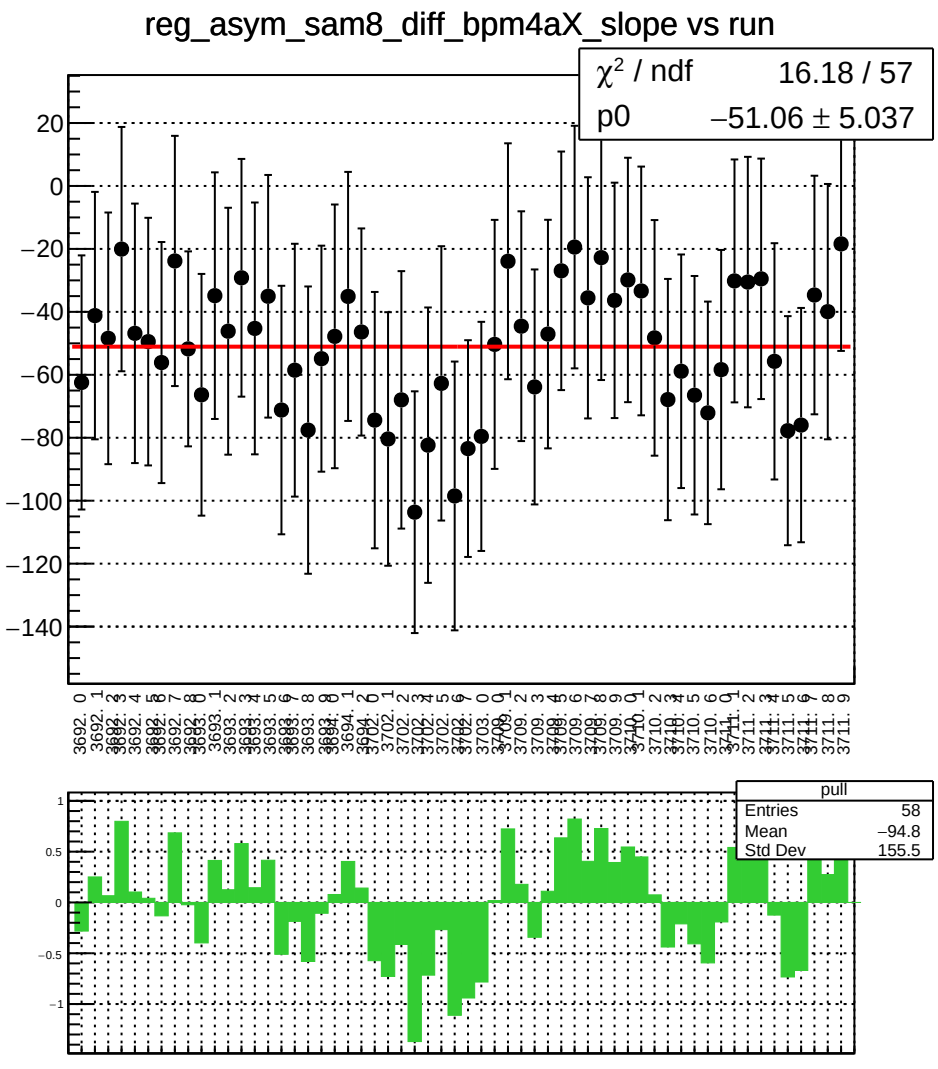

pull1D
Entries 58
Mean 0.02877
Std Dev 1.539

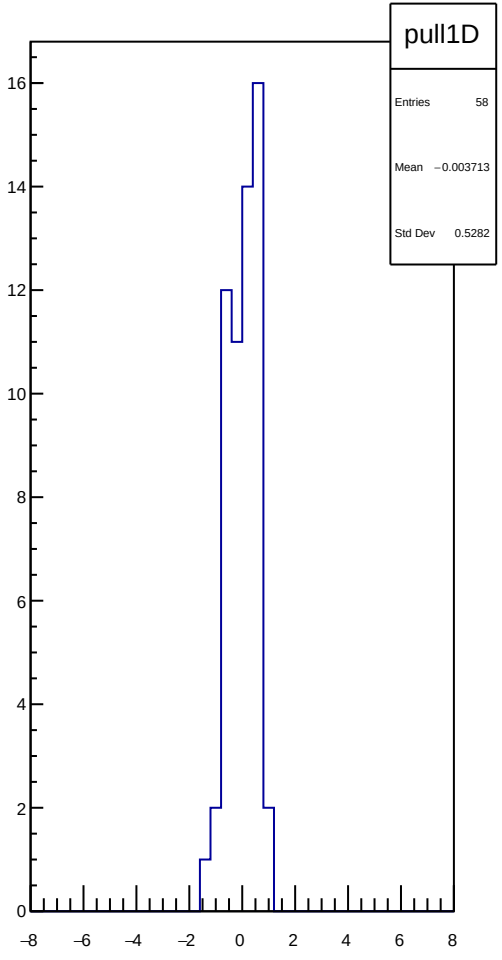

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.047 / 57
p0 −95.14 ± 7.173
pull
Entries 58
Mean 485.3
Std Dev 460.2

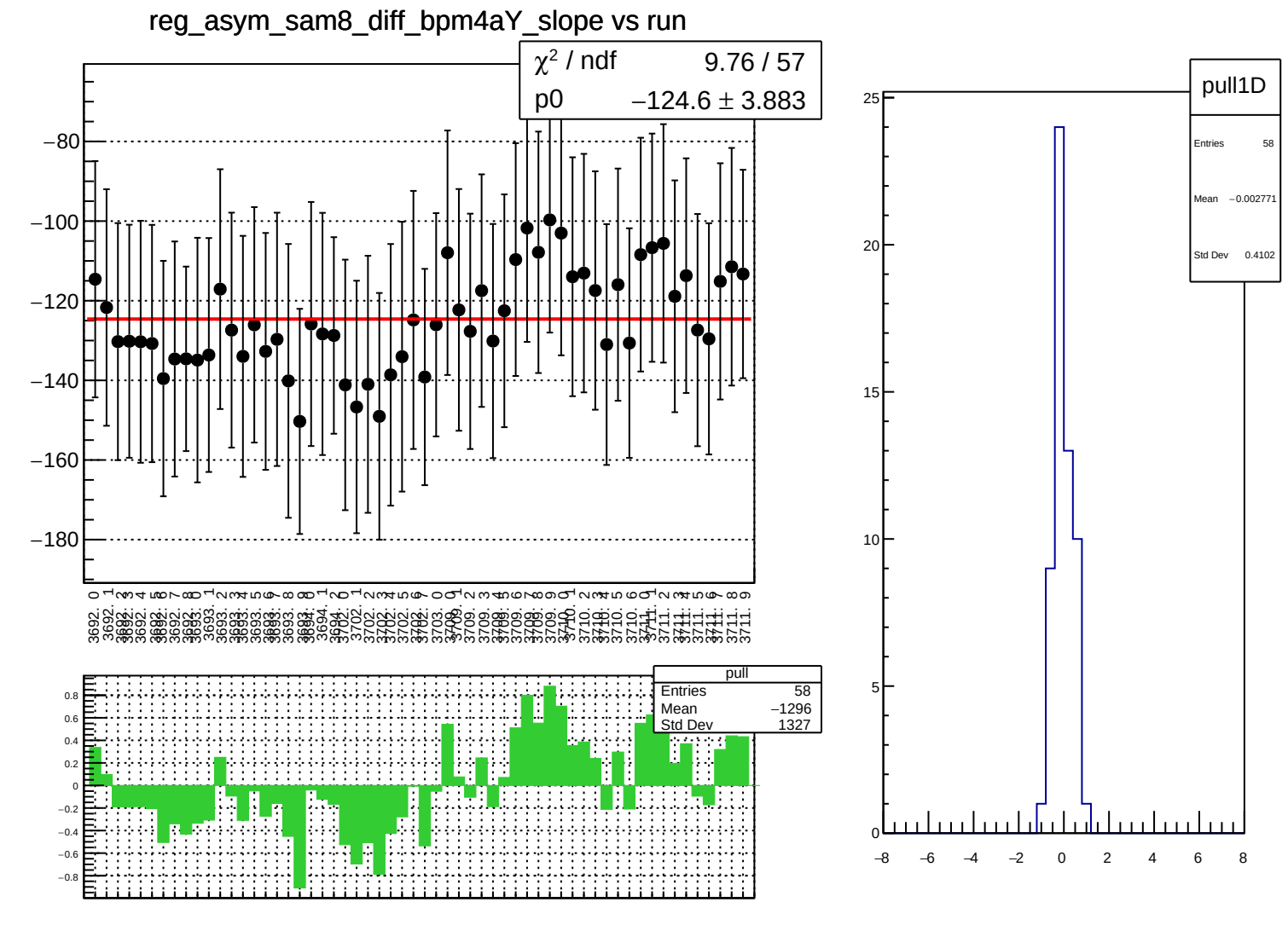

pull1D
Entries 58
Mean 0.004741
Std Dev 0.1878

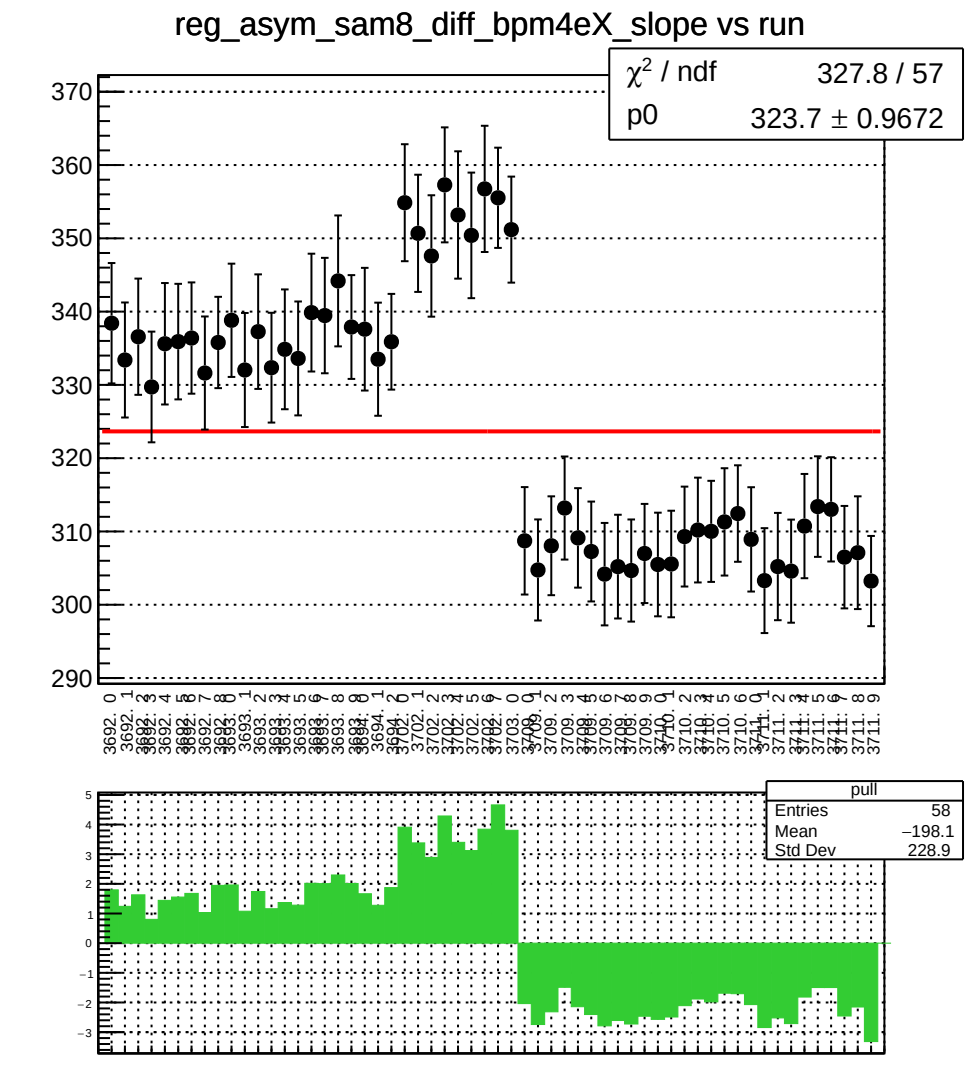

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 2.538 / 57
p0 −0.834 ± 0.8792
pull
Entries 58
Mean 3.06
Std Dev 26.3

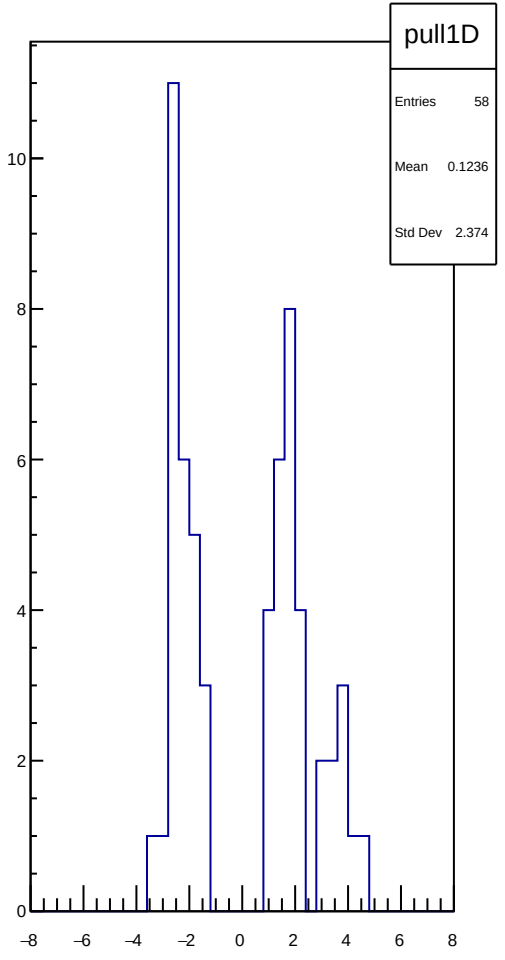

pull1D
Entries 58
Mean −0.02524
Std Dev 0.2077

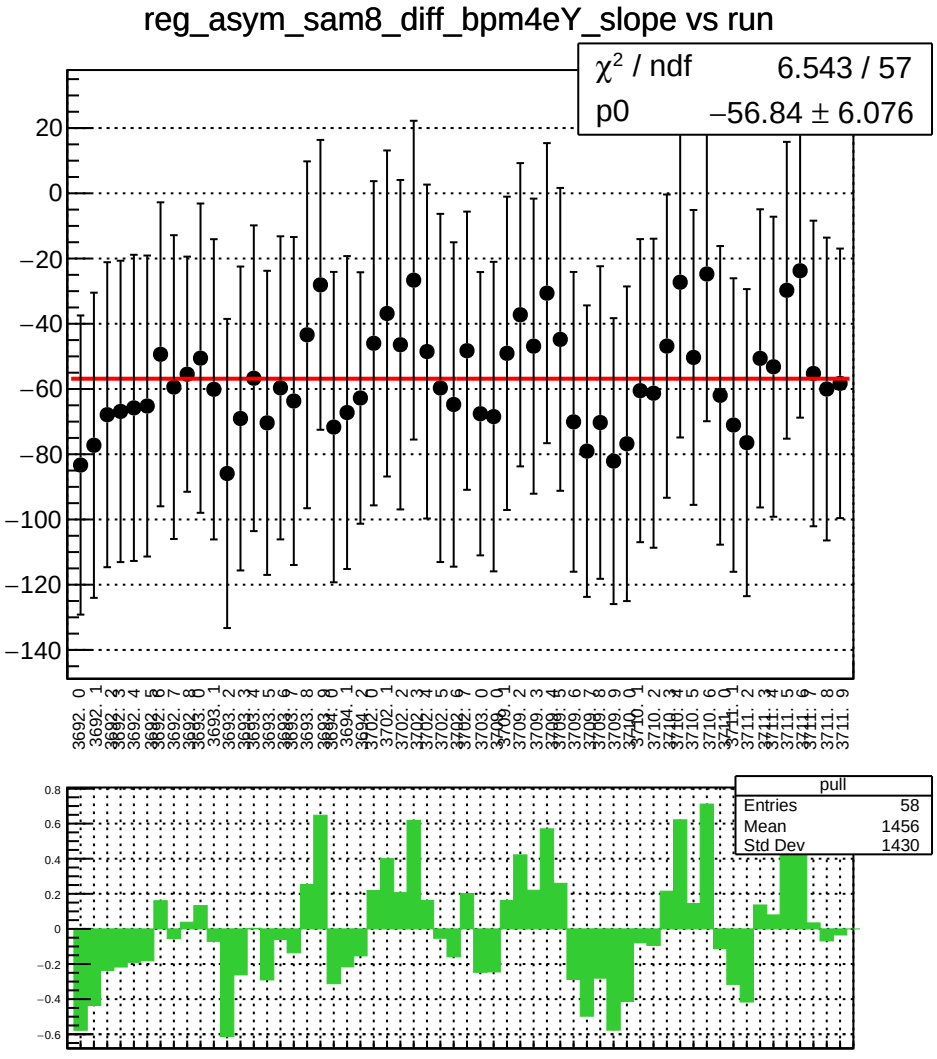

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 16.18 / 57
p0 −51.06 ± 5.037
pull
Entries 58
Mean −94.8
Std Dev 155.5

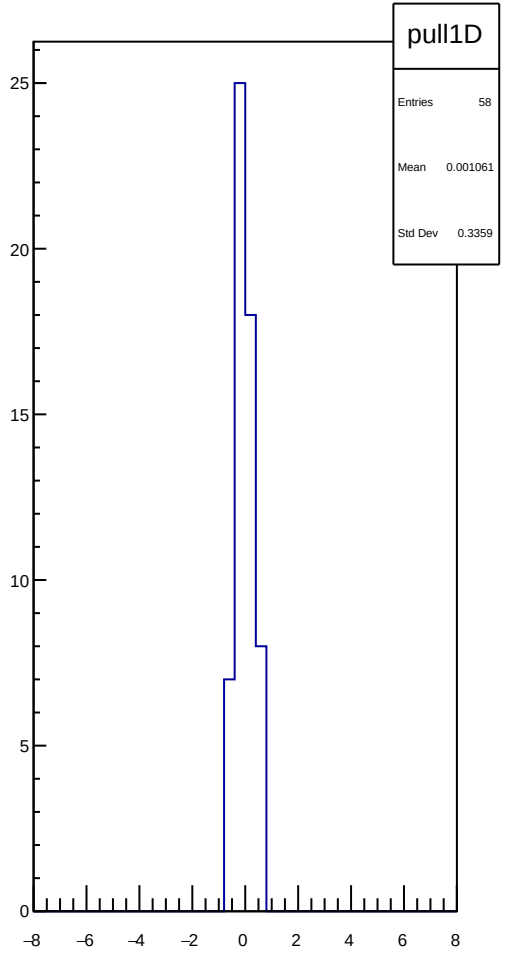

pull1D
Entries 58
Mean −0.003713
Std Dev 0.5282

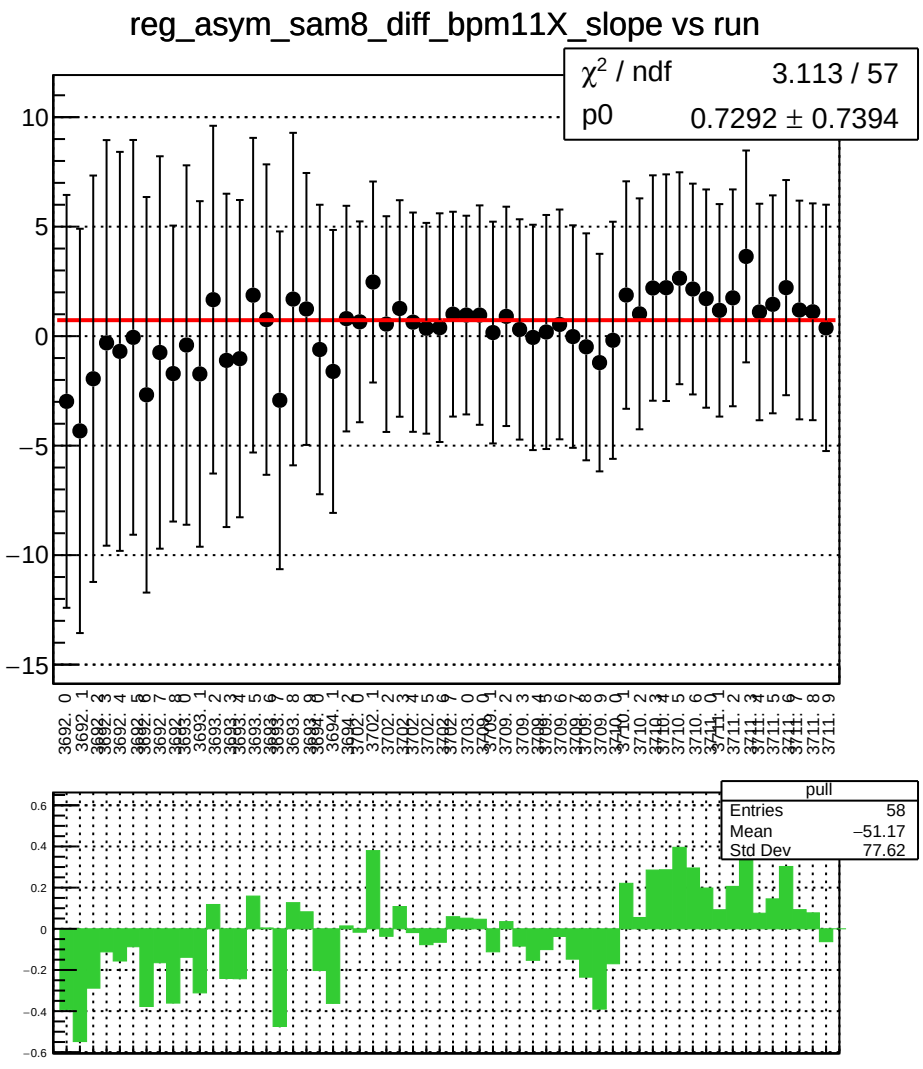

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 9.76 / 57
p0 −124.6 ± 3.883
pull
Entries 58
Mean −1296
Std Dev 1327
pull1D
Entries 58
Mean −0.002771
Std Dev 0.4102

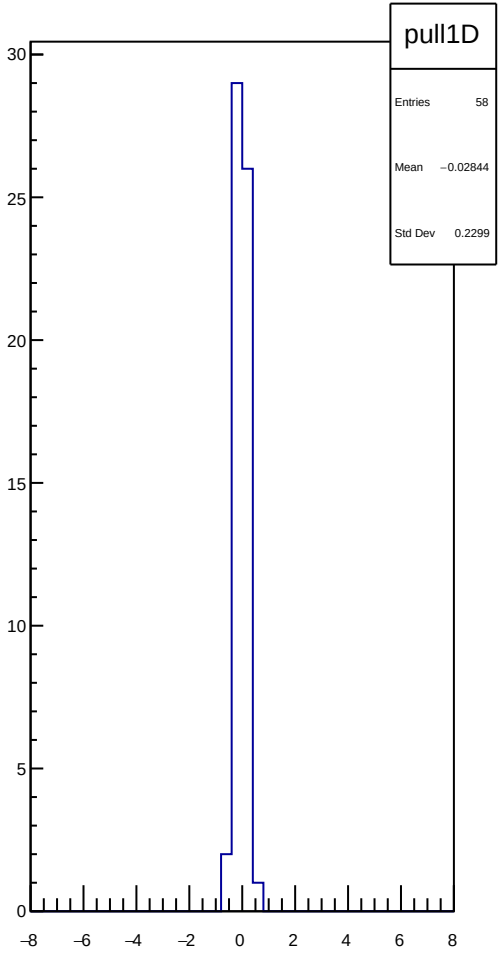

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 327.8 / 57
p0 323.7 ± 0.9672
pull
Entries 58
Mean −198.1
Std Dev 228.9

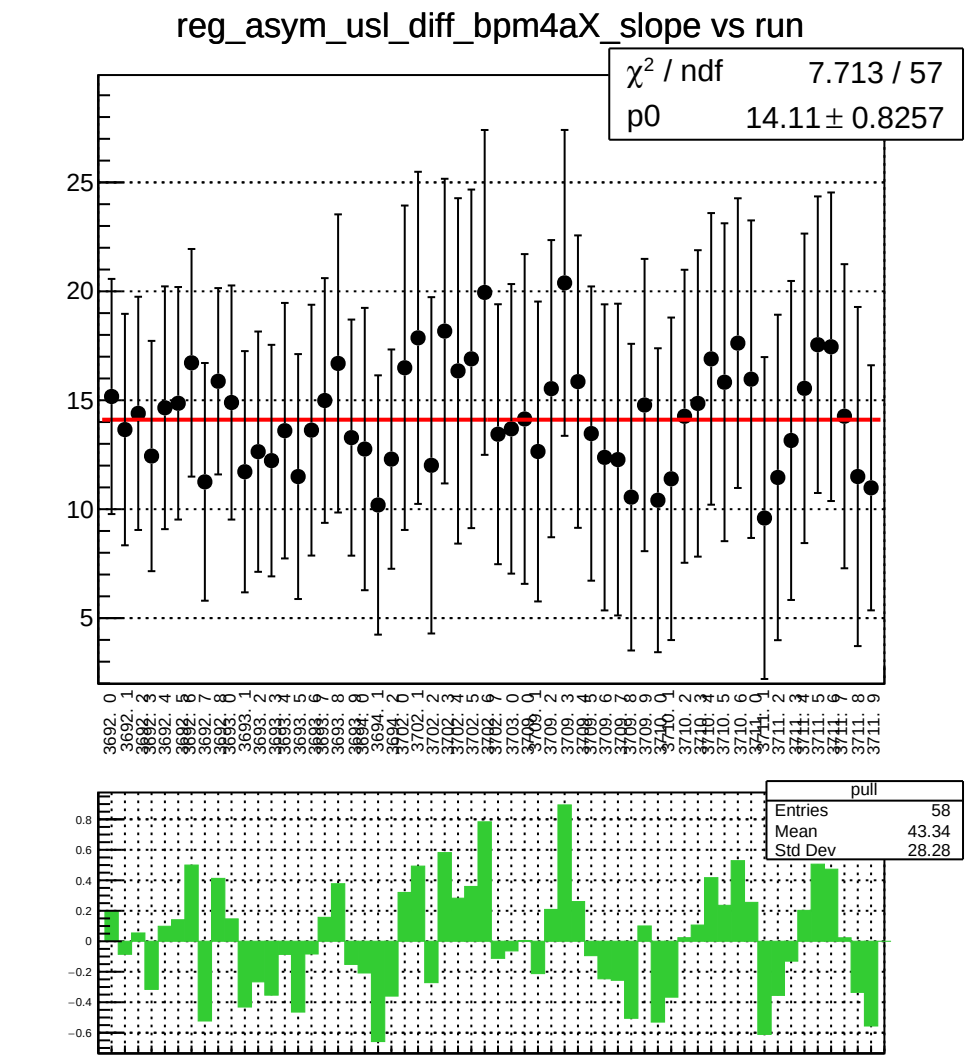

pull1D
Entries 58
Mean 0.1236
Std Dev 2.374

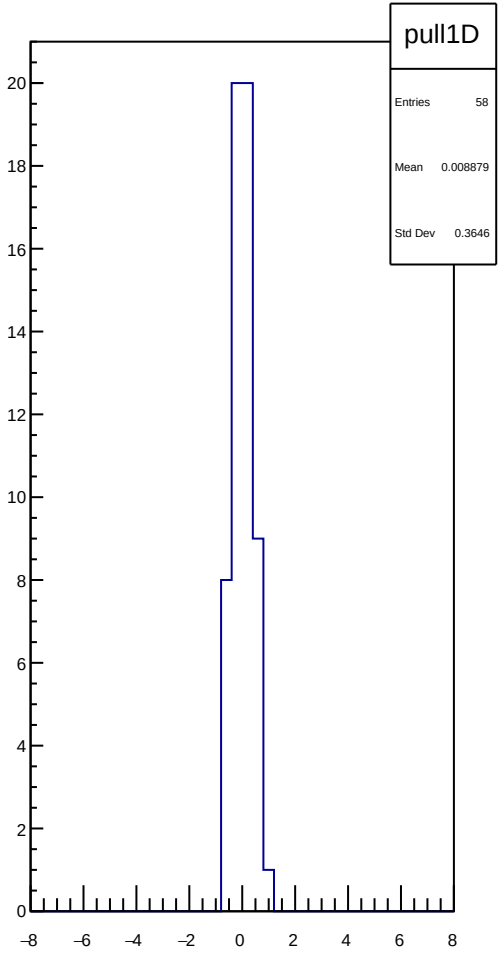

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 6.543 / 57
p0 −56.84 ± 6.076
pull
Entries 58
Mean 1456
Std Dev 1430

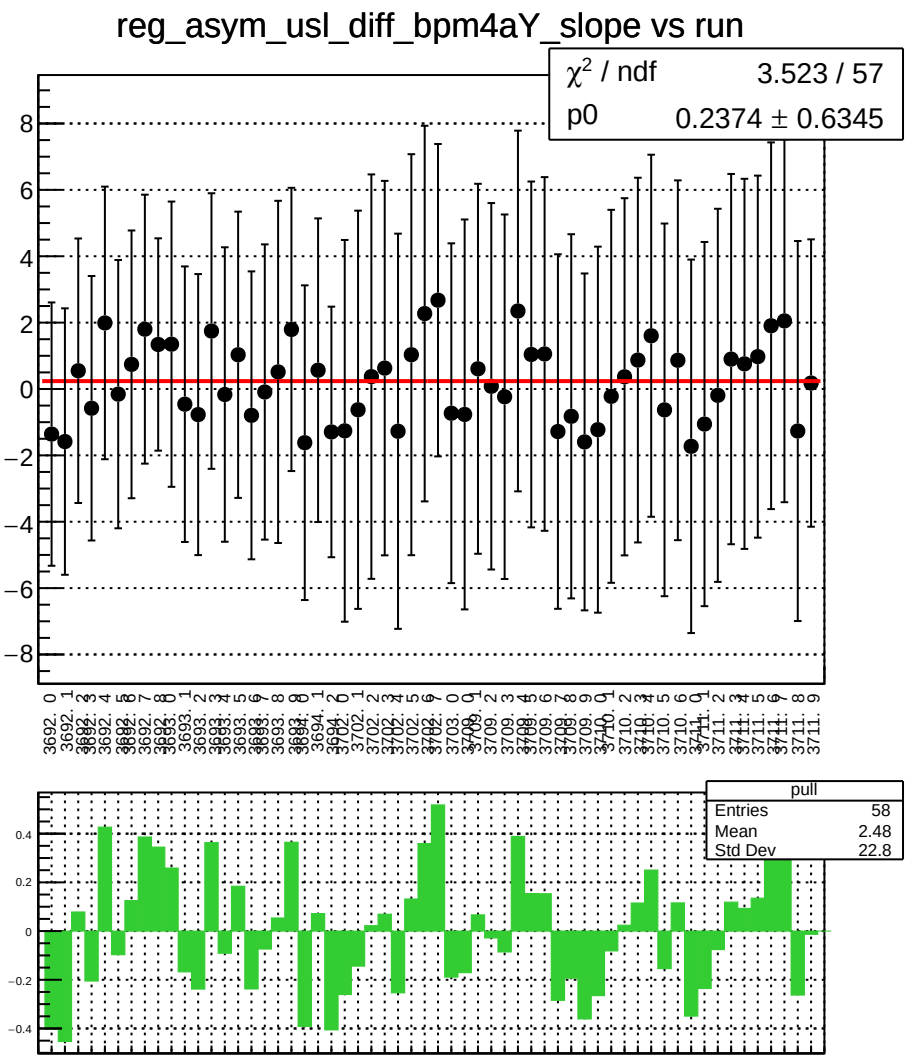

pull1D
Entries 58
Mean 0.001061
Std Dev 0.3359

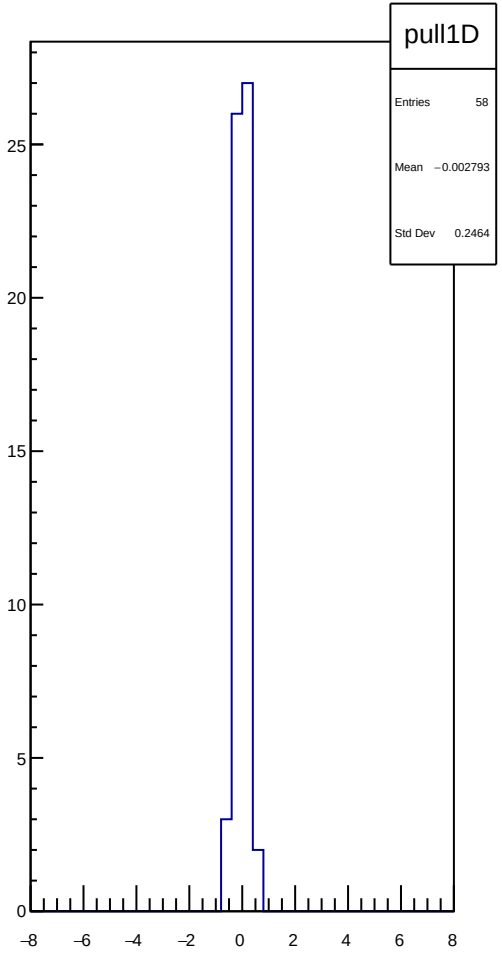

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 3.113 / 57
p0 0.7292 ± 0.7394
pull
Entries 58
Mean −51.17
Std Dev 77.62

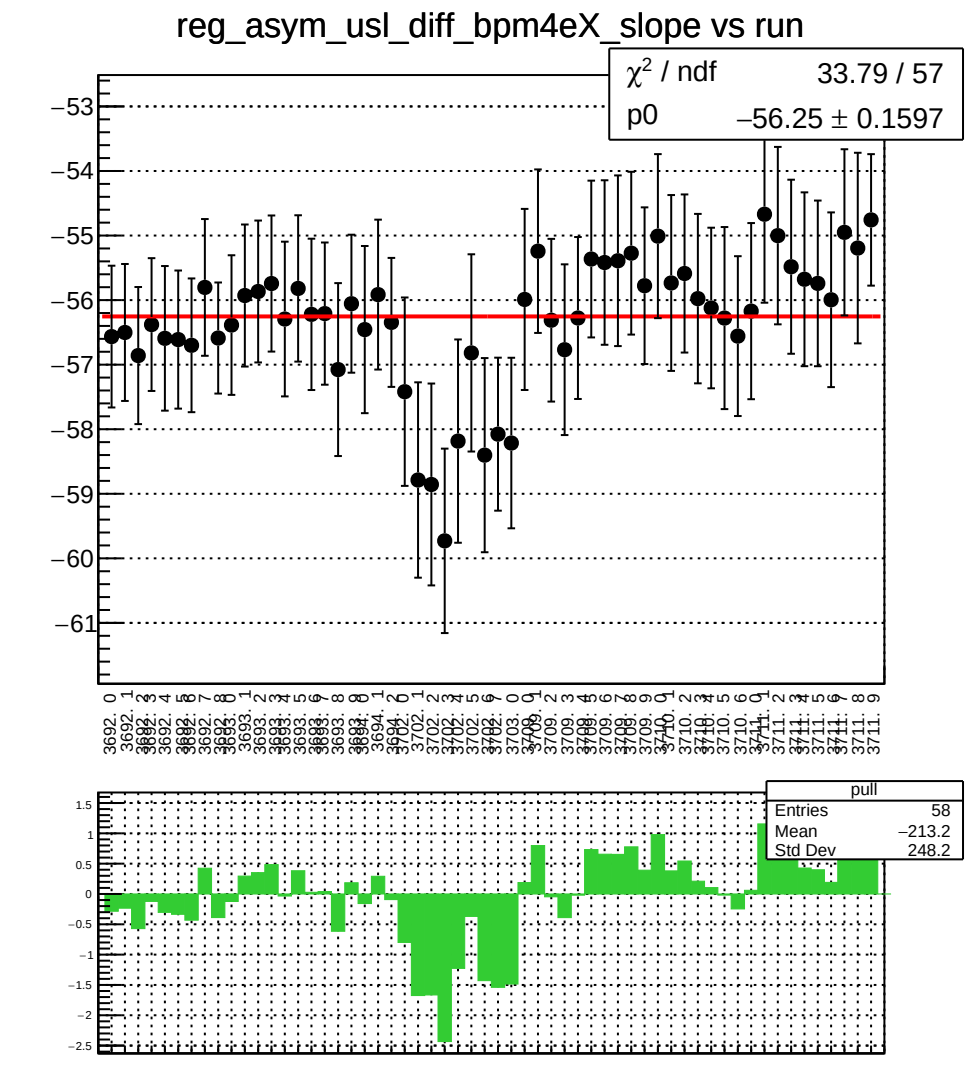

pull1D
Entries 58
Mean −0.02844
Std Dev 0.2299

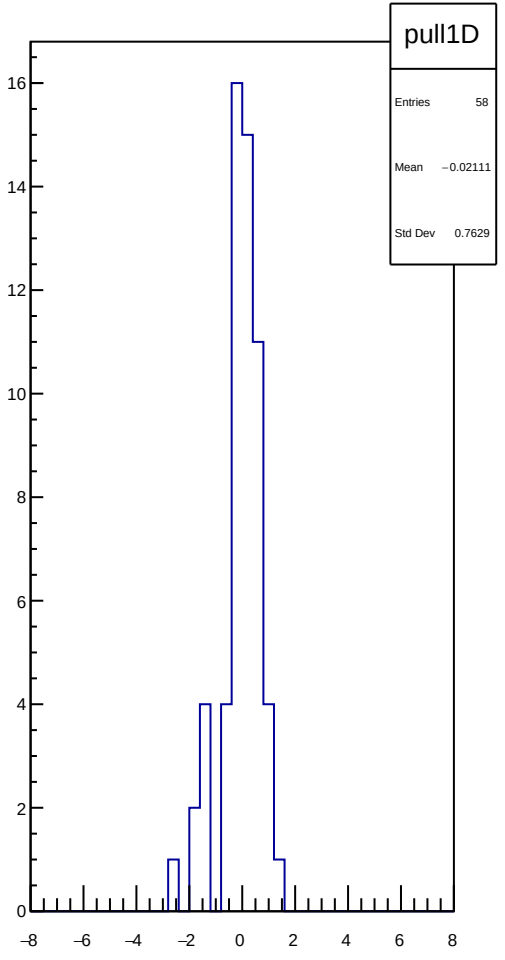

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 7.713 / 57
p0 14.11 ± 0.8257
pull
Entries 58
Mean 43.34
Std Dev 28.28

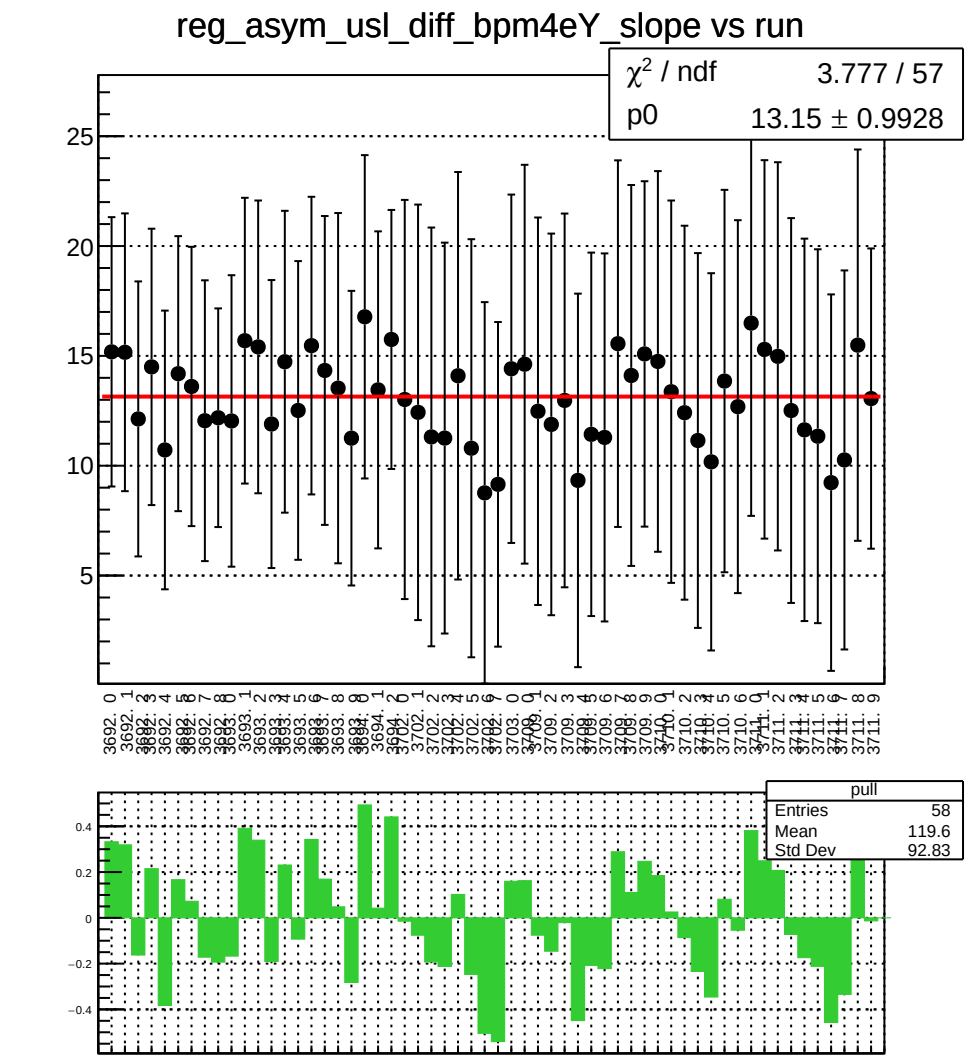

pull1D
Entries 58
Mean 0.008879
Std Dev 0.3646

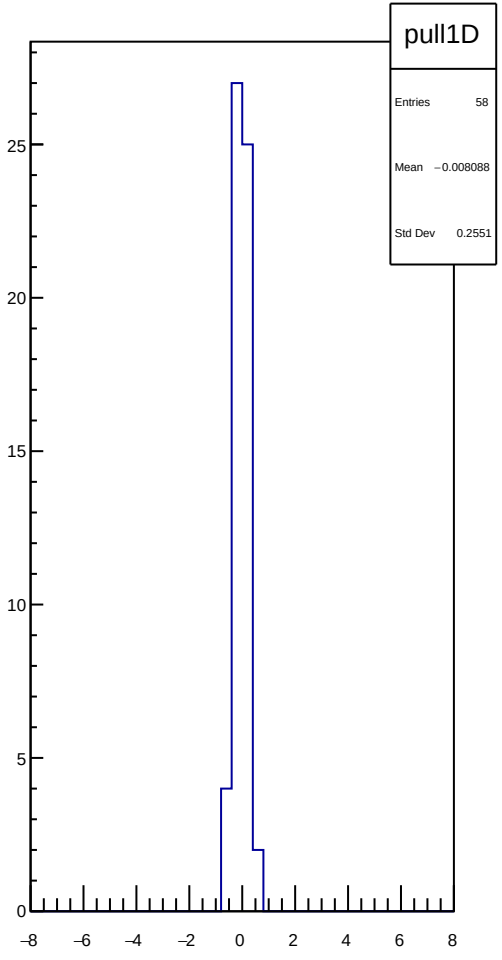

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 3.523 / 57
p0 0.2374 ± 0.6345
pull
Entries 58
Mean 2.48
Std Dev 22.8

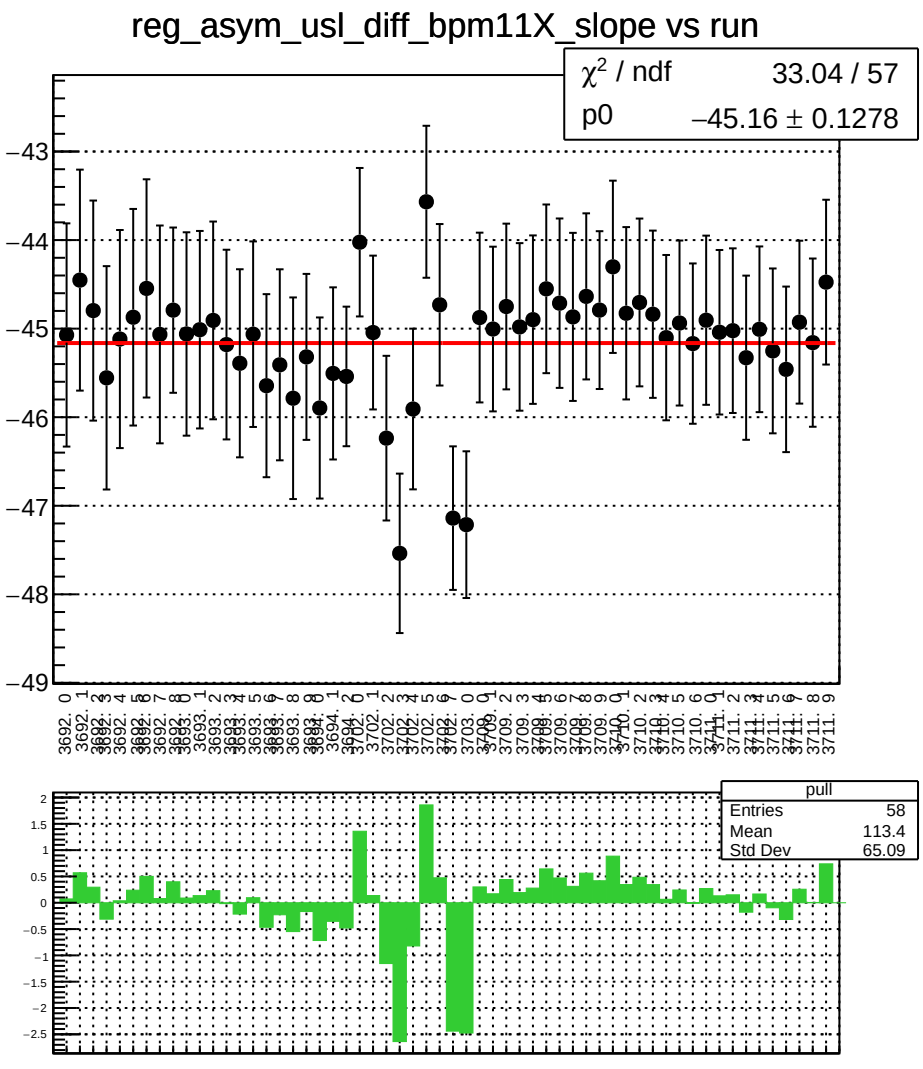

pull1D
Entries 58
Mean −0.002793
Std Dev 0.2464

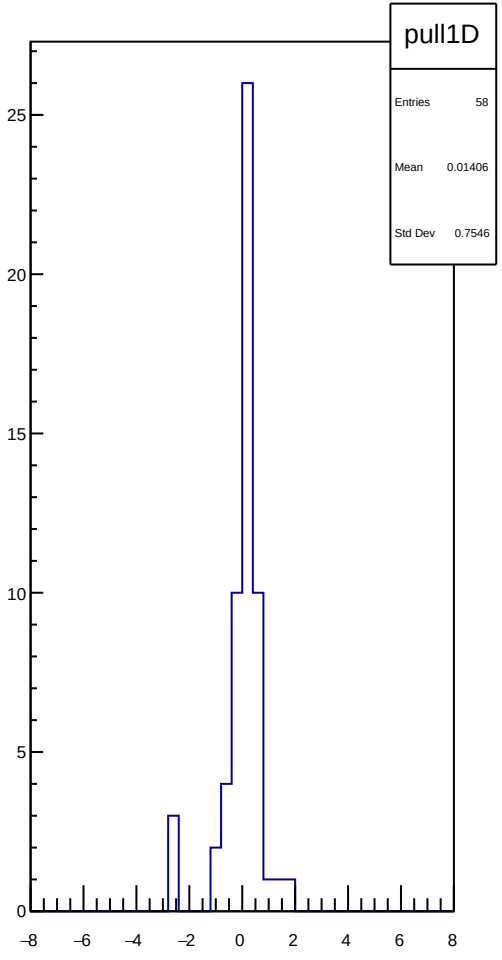

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 33.79 / 57
p0 −56.25 ± 0.1597
pull
Entries 58
Mean −213.2
Std Dev 248.2

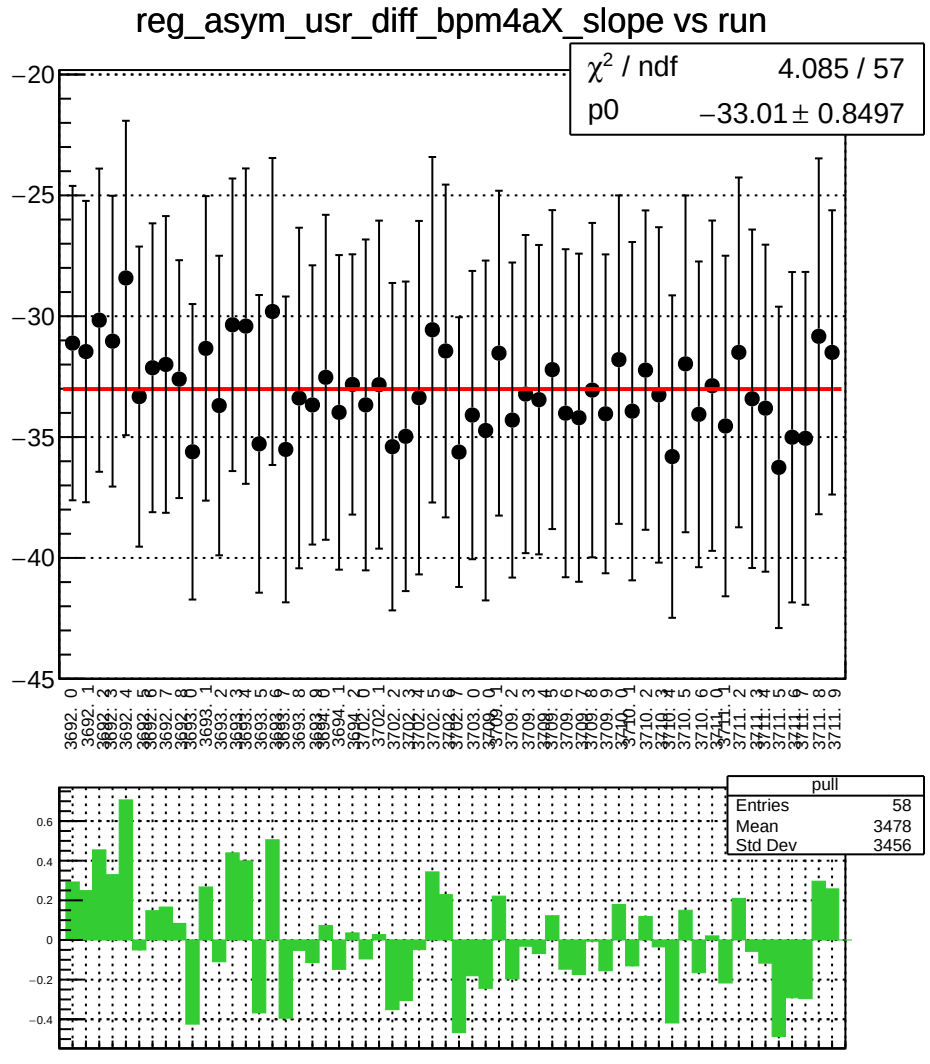

pull1D
Entries 58
Mean −0.02111
Std Dev 0.7629

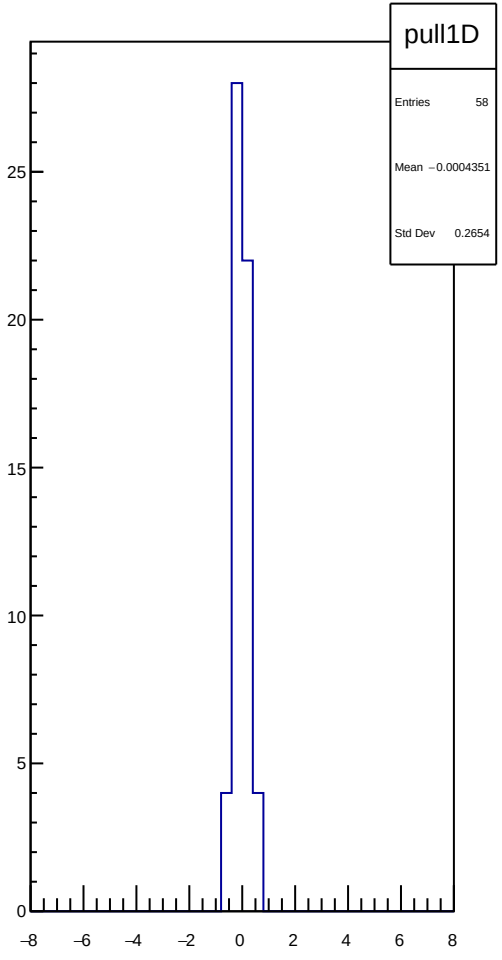

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.777 / 57
p0 13.15 ± 0.9928
pull
Entries 58
Mean 119.6
Std Dev 92.83

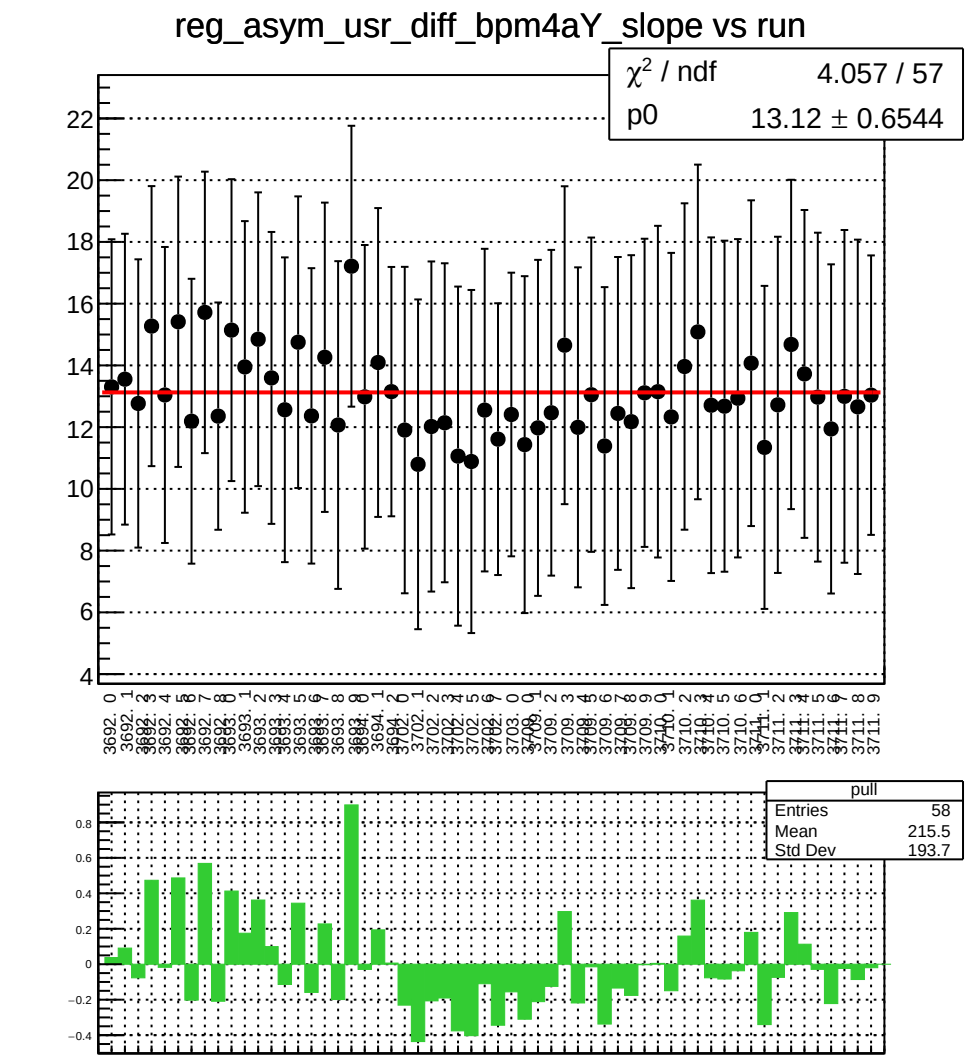

pull1D
Entries 58
Mean −0.008088
Std Dev 0.2551

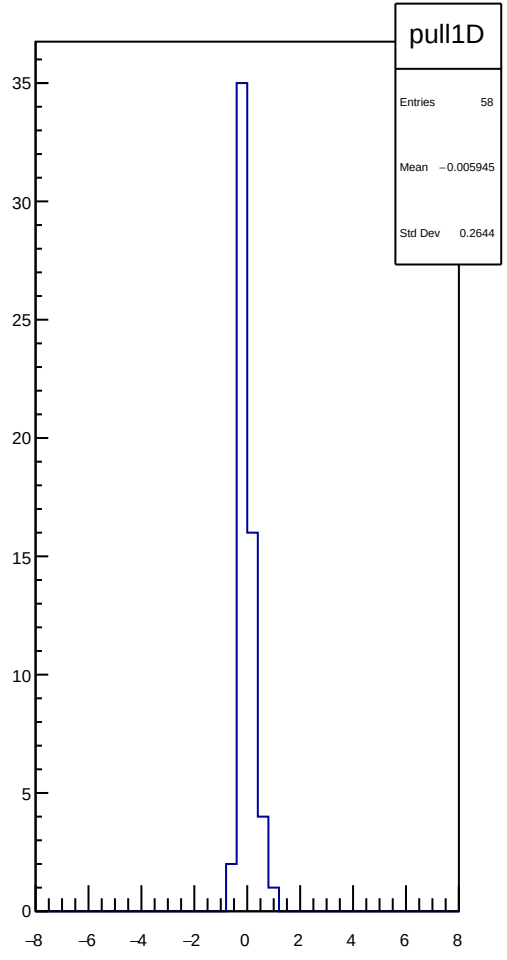

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 33.04 / 57
p0 −45.16 ± 0.1278
pull
Entries 58
Mean 113.4
Std Dev 65.09

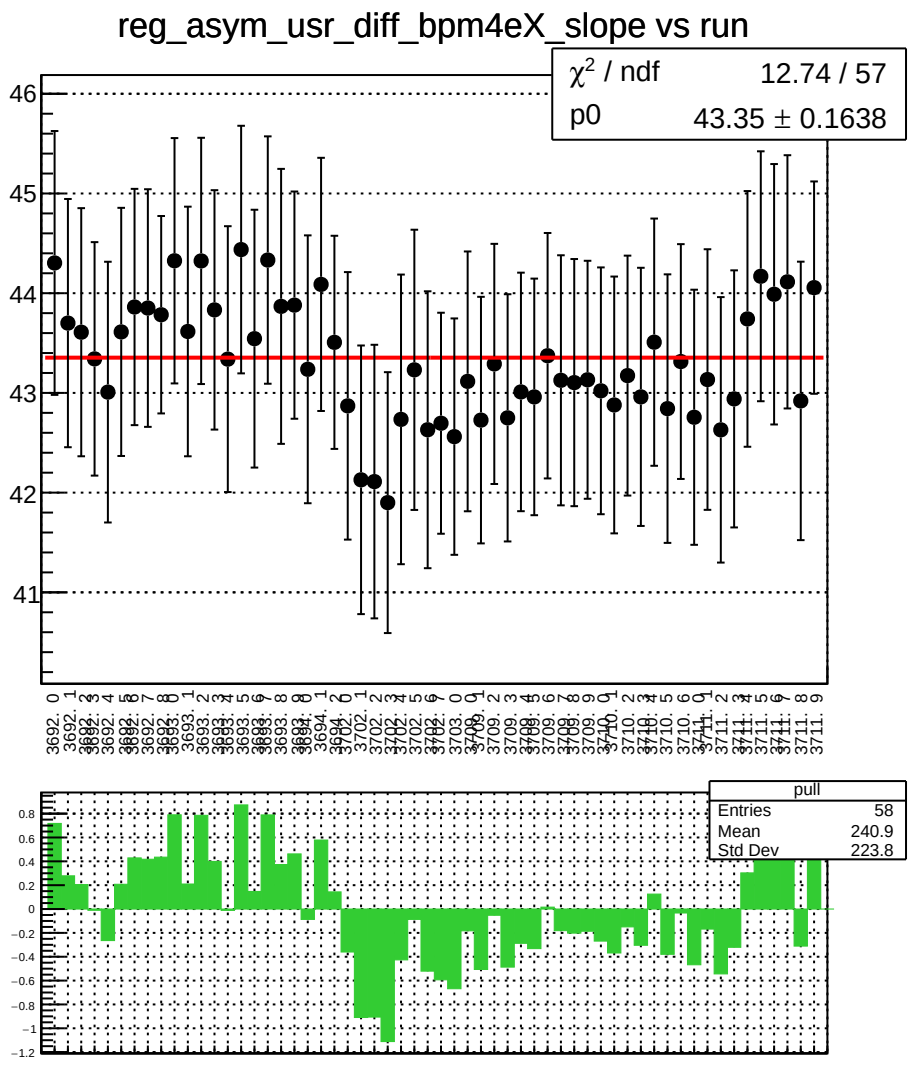

pull1D
Entries 58
Mean 0.01406
Std Dev 0.7546

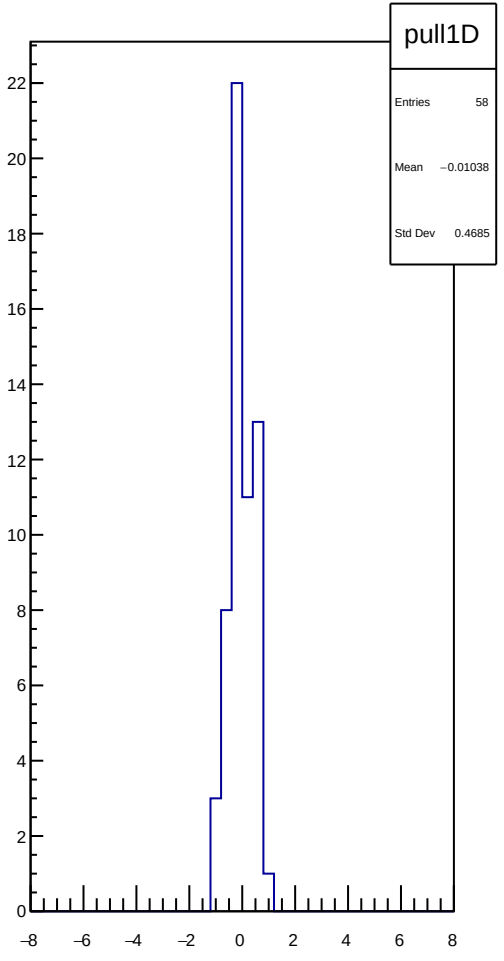

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 4.085 / 57
p0 −33.01 ± 0.8497
pull
Entries 58
Mean 3478
Std Dev 3456

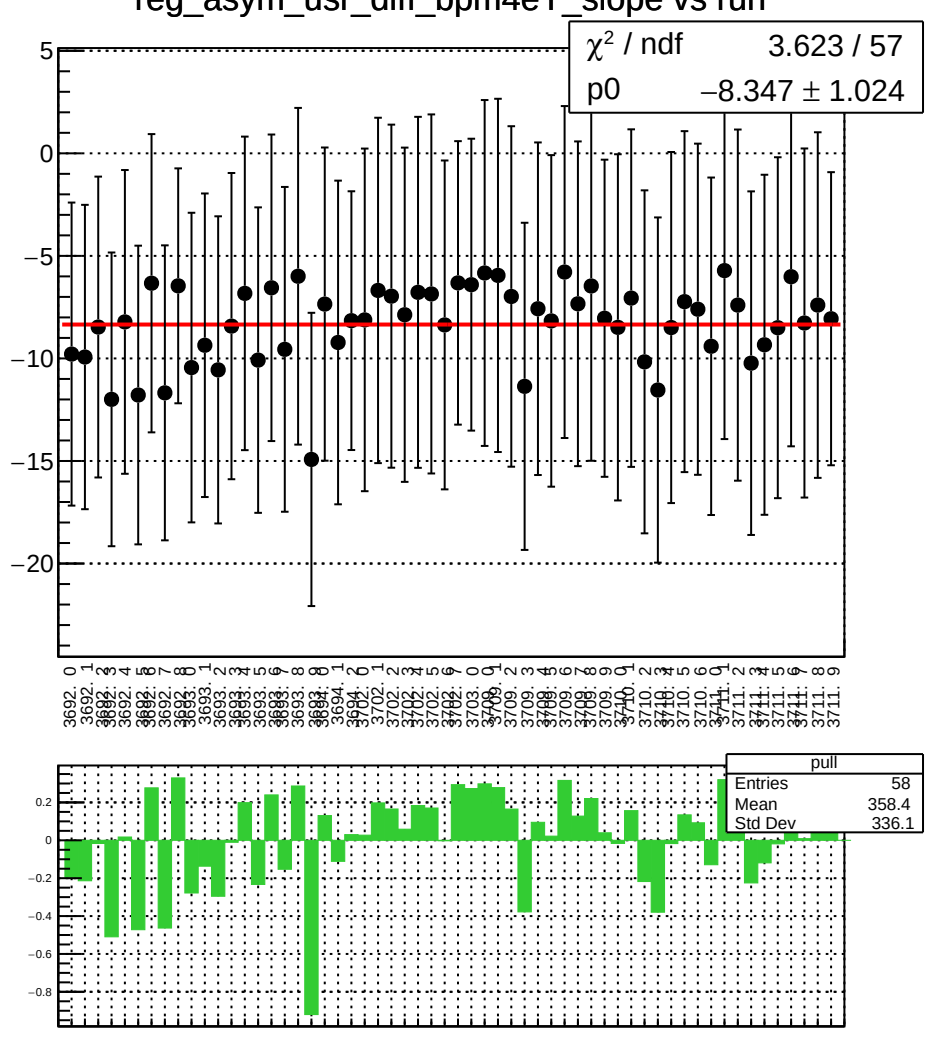

pull1D
Entries 58
Mean −0.0004351
Std Dev 0.2654

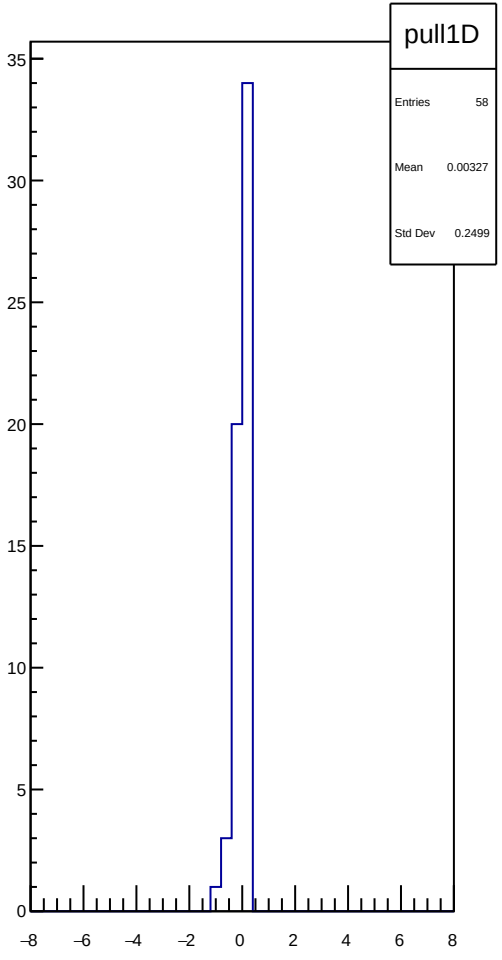

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 4.057 / 57
p0 13.12 ± 0.6544
pull
Entries 58
Mean 215.5
Std Dev 193.7

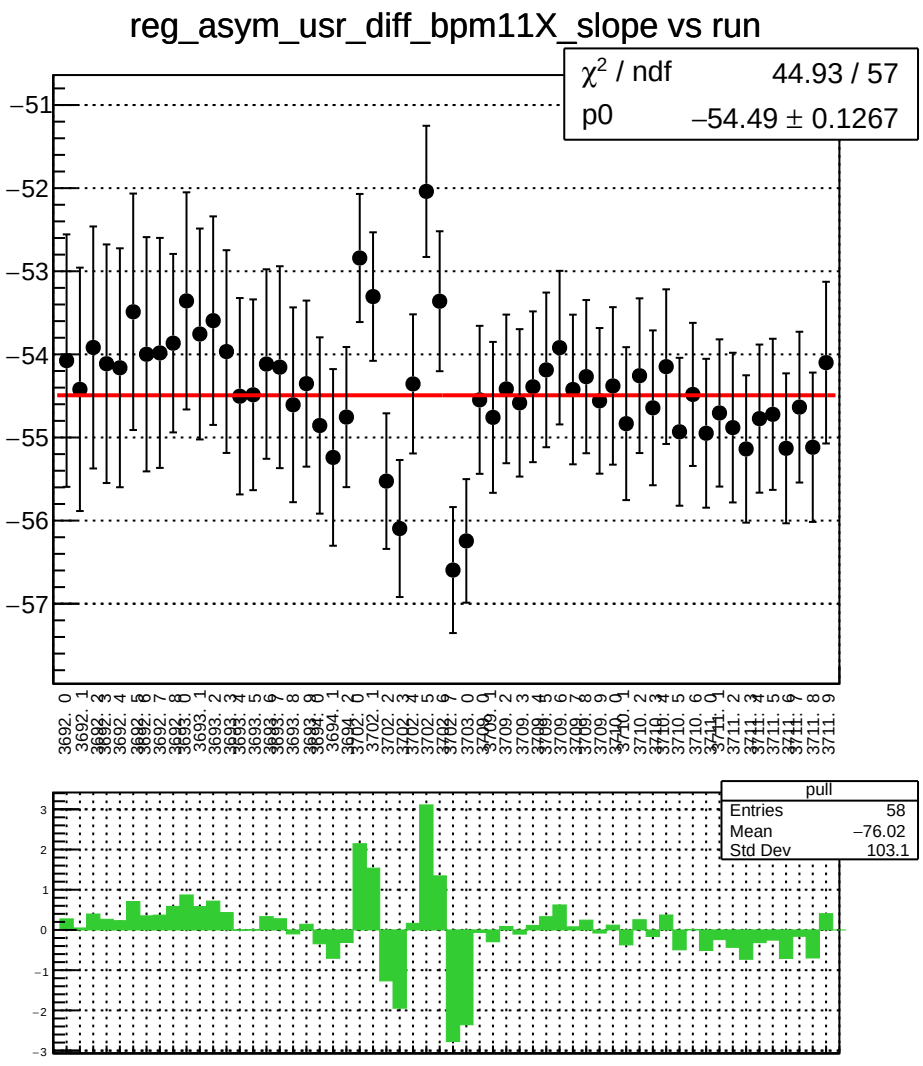

pull1D
Entries 58
Mean −0.005945
Std Dev 0.2644

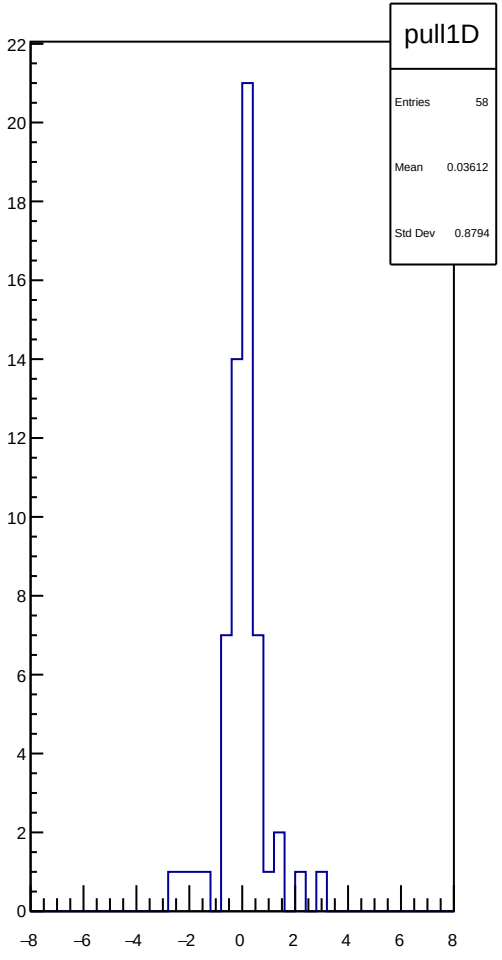

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 12.74 / 57
p0 43.35 ± 0.1638
pull
Entries 58
Mean 240.9
Std Dev 223.8

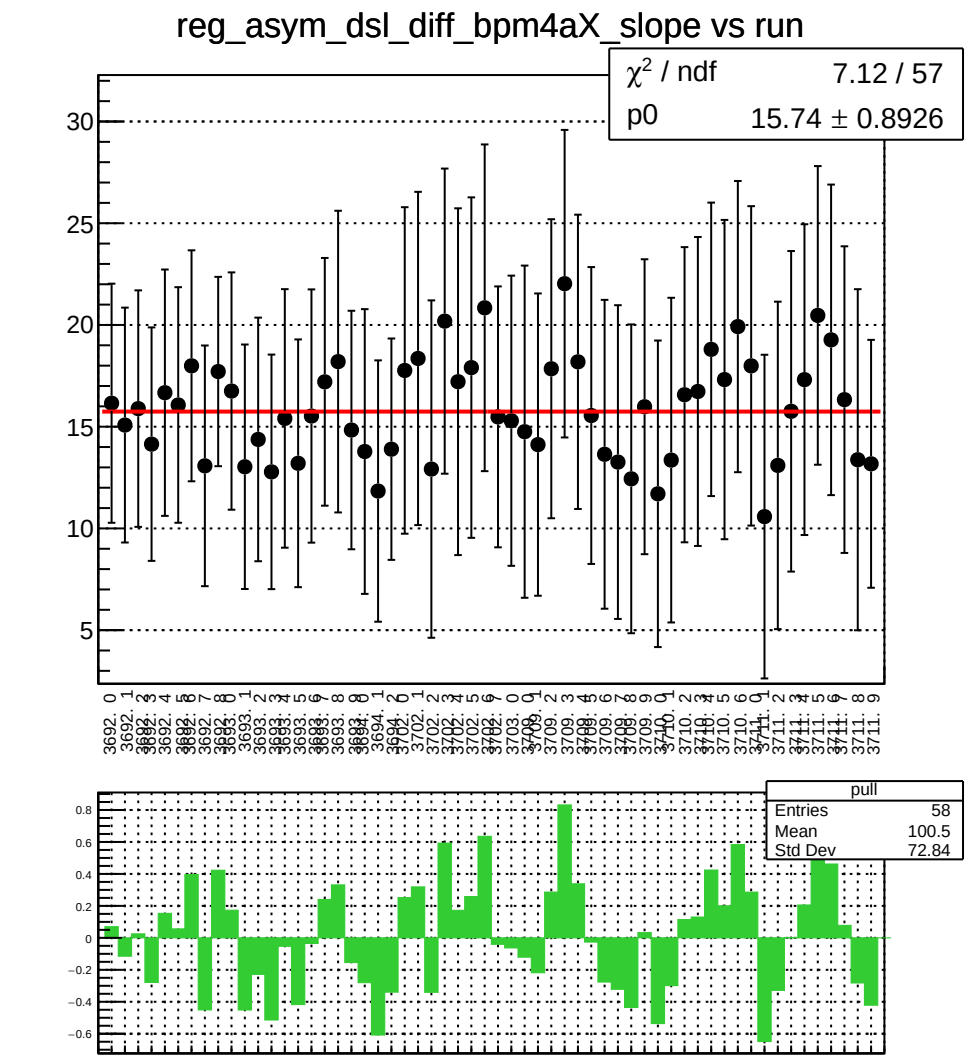

pull1D
Entries 58
Mean −0.01038
Std Dev 0.4685

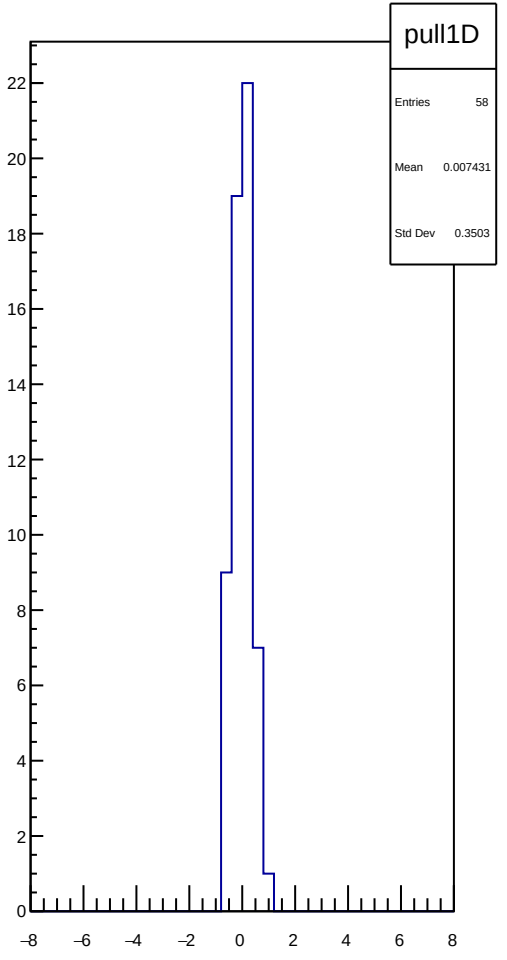

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 3.623 / 57
p0 −8.347 ± 1.024
pull
Entries 58
Mean 358.4
Std Dev 336.1

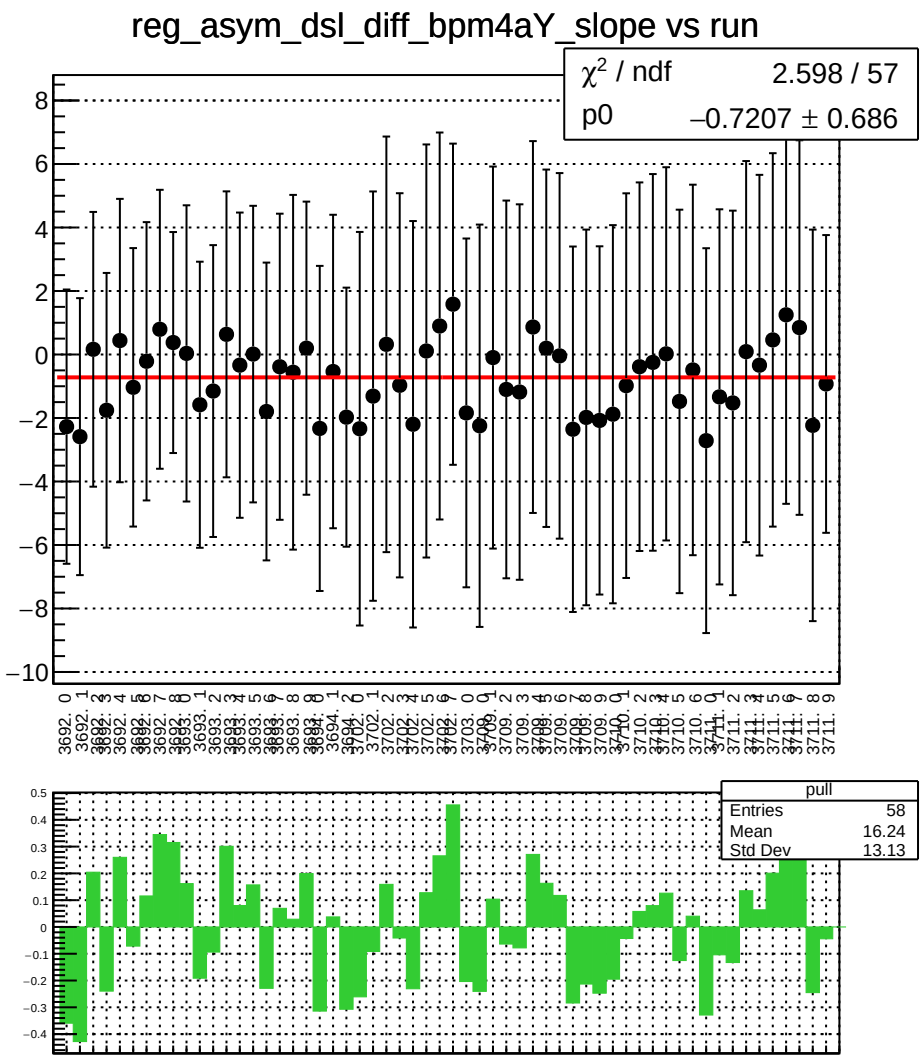

pull1D
Entries 58
Mean 0.00327
Std Dev 0.2499

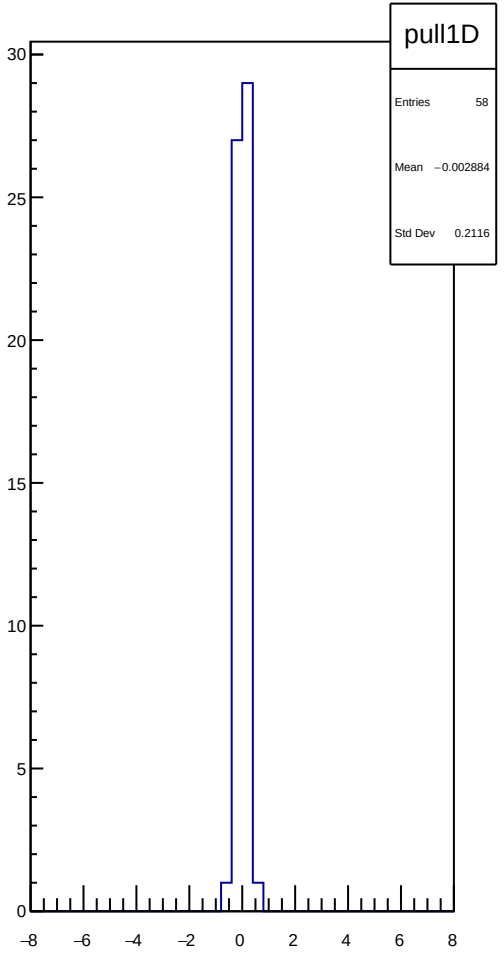

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 44.93 / 57
p0 −54.49 ± 0.1267
pull
Entries 58
Mean −76.02
Std Dev 103.1

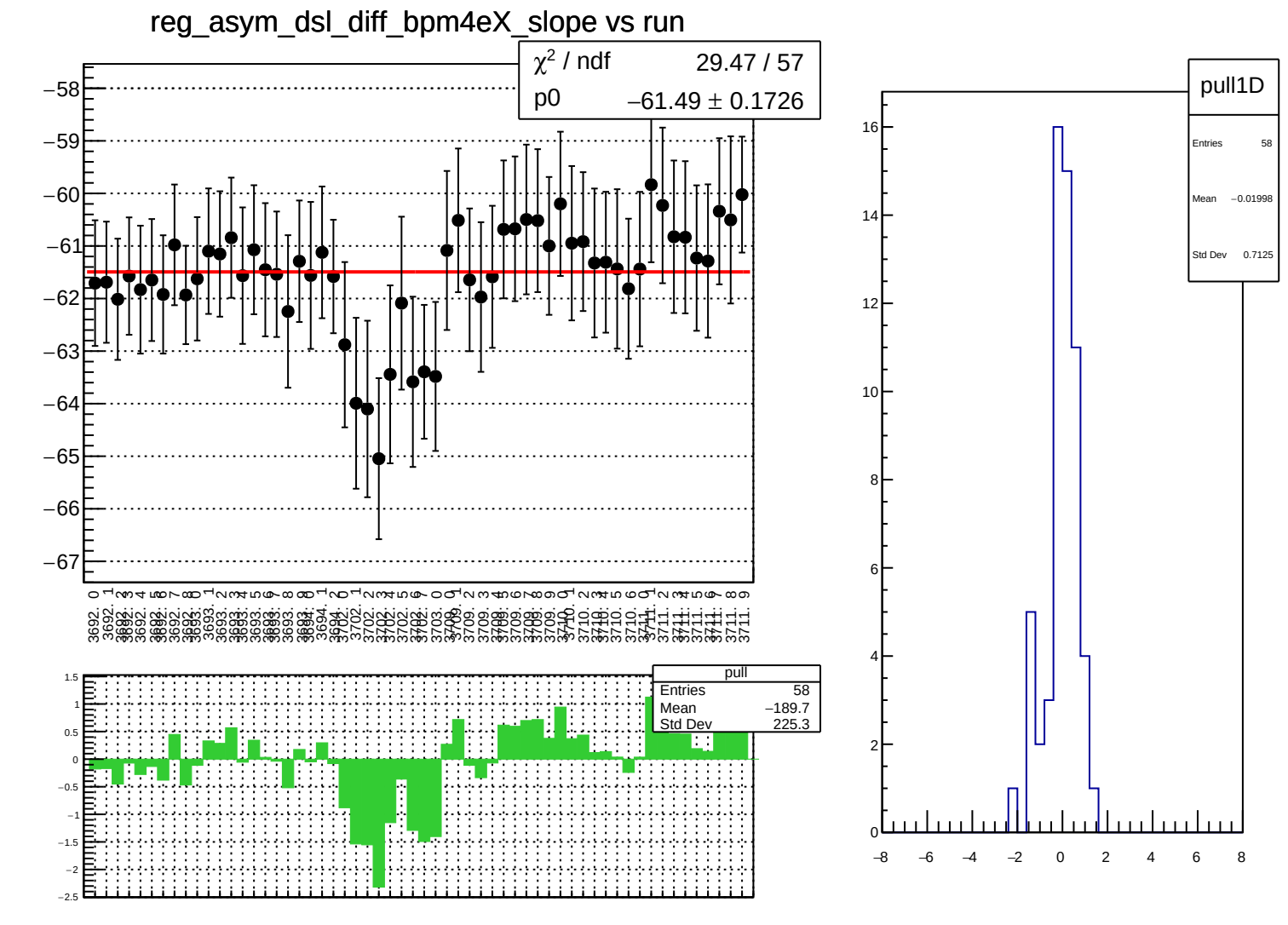

pull1D
Entries 58
Mean 0.03612
Std Dev 0.8794

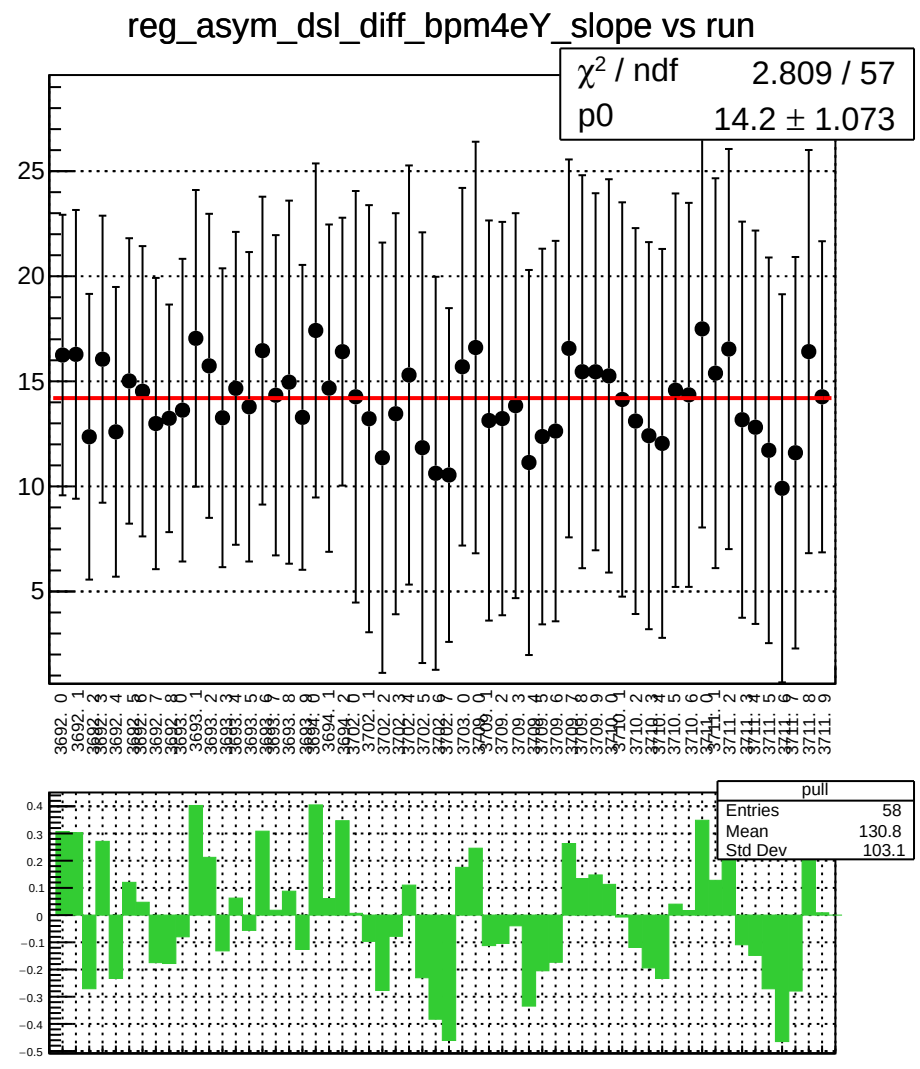

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 7.12 / 57
p0 15.74 ± 0.8926
pull
Entries 58
Mean 100.5
Std Dev 72.84

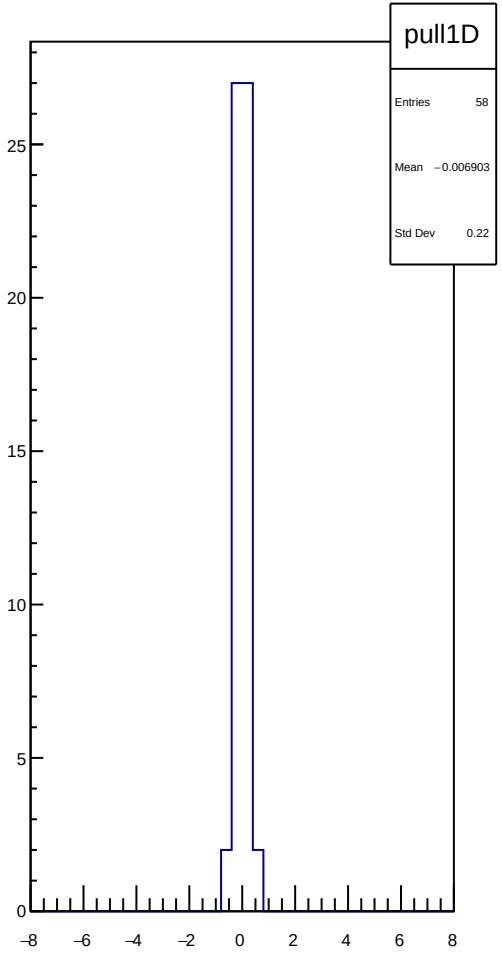

pull1D
Entries 58
Mean 0.007431
Std Dev 0.3503

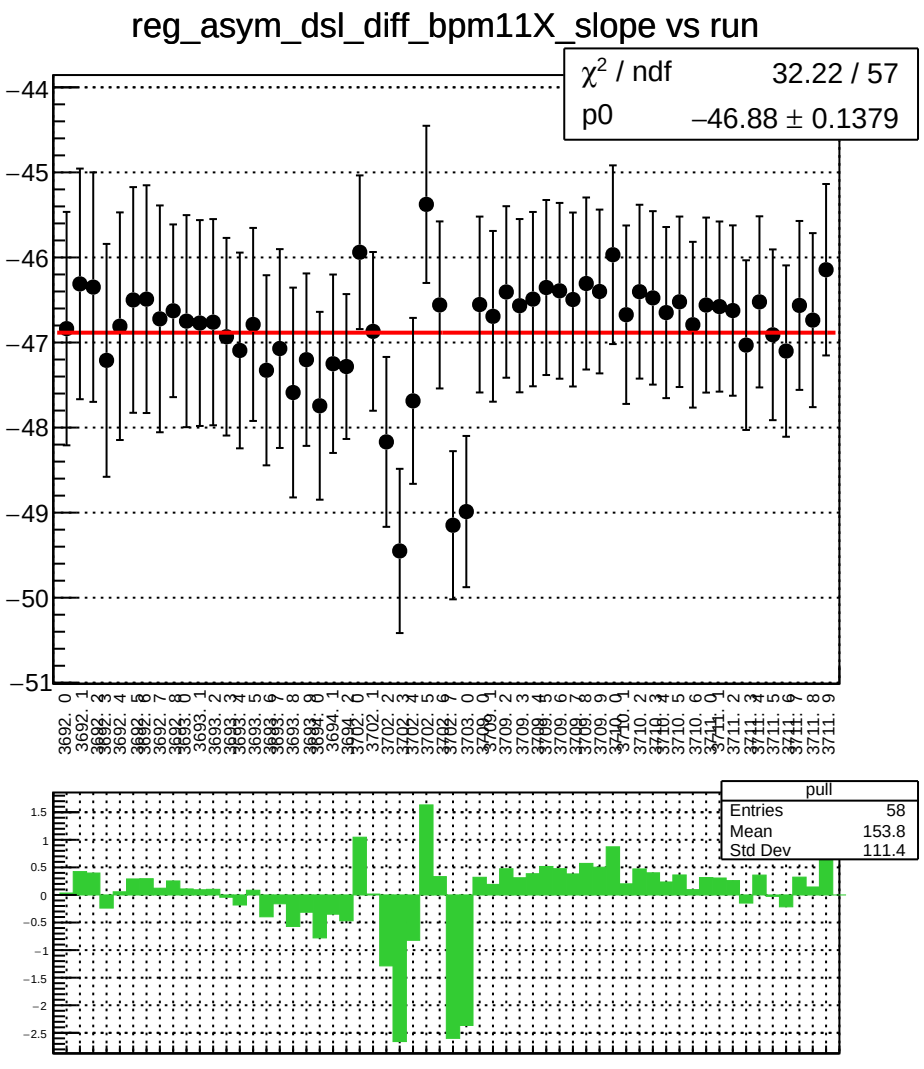

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 2.598 / 57
p0 −0.7207 ± 0.686
pull
Entries 58
Mean 16.24
Std Dev 13.13

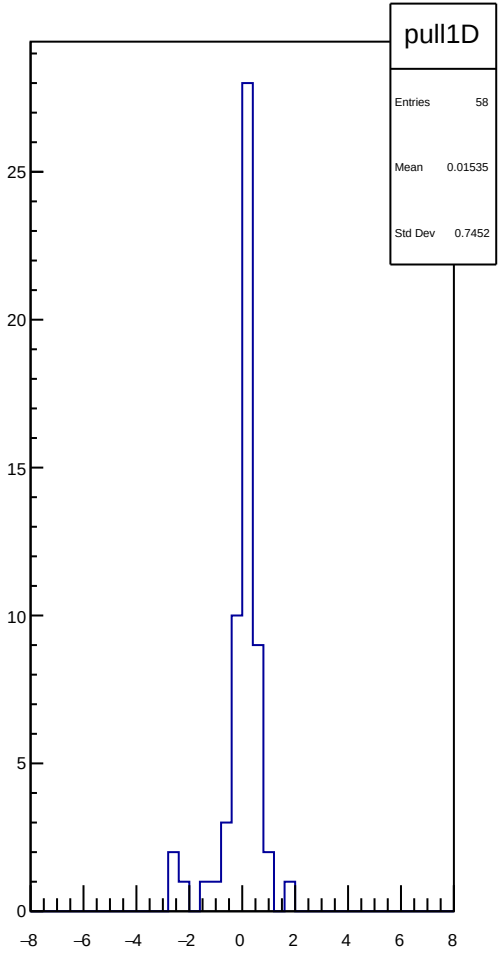

pull1D
Entries 58
Mean −0.002884
Std Dev 0.2116

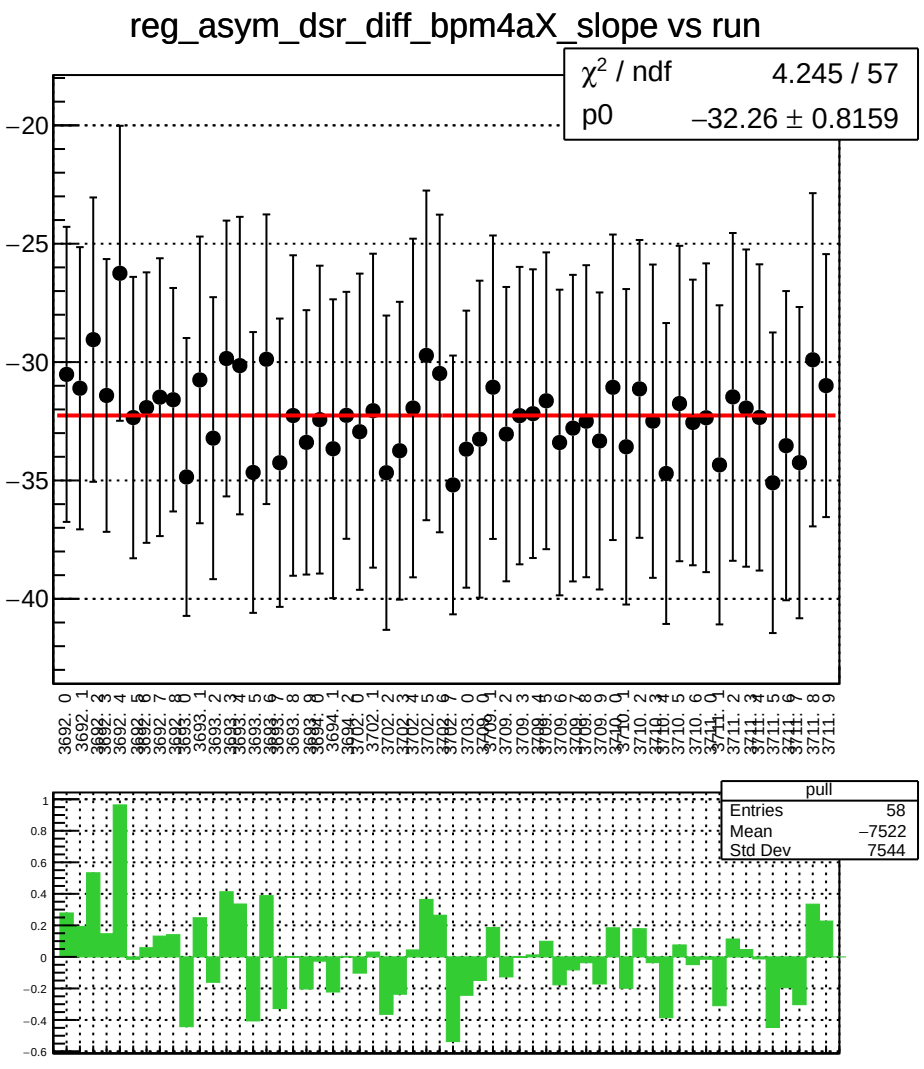

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 29.47 / 57
p0 −61.49 ± 0.1726
pull
Entries 58
Mean −189.7
Std Dev 225.3
pull1D
Entries 58
Mean −0.01998
Std Dev 0.7125

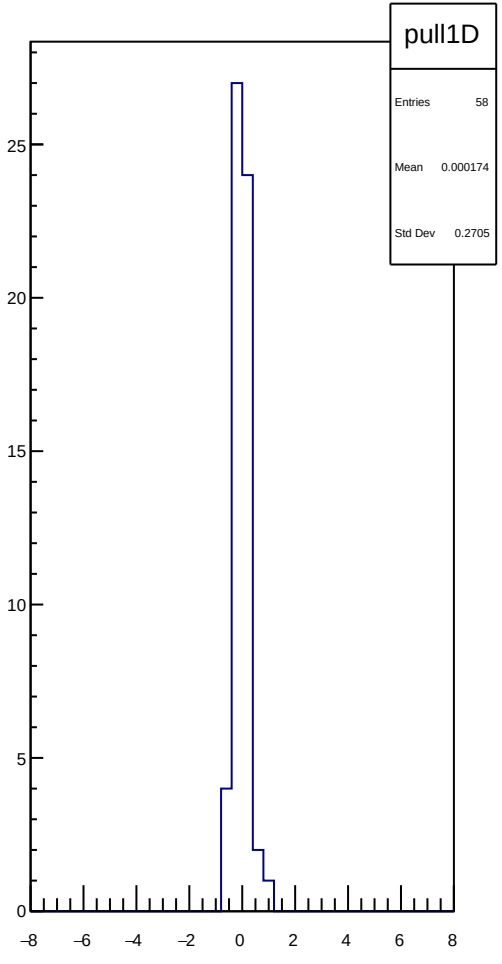

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 2.809 / 57
p0 14.2 ± 1.073
pull
Entries 58
Mean 130.8
Std Dev 103.1

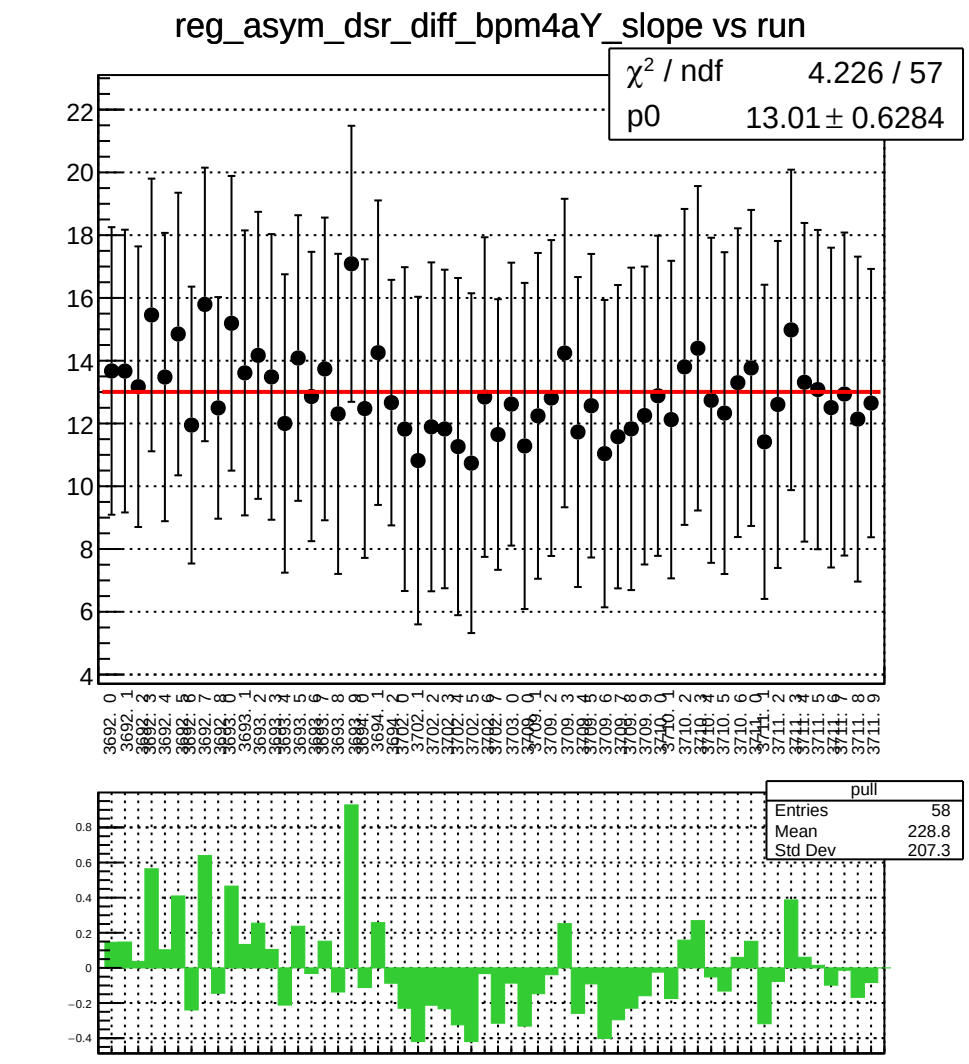

pull1D
Entries 58
Mean −0.006903
Std Dev 0.22

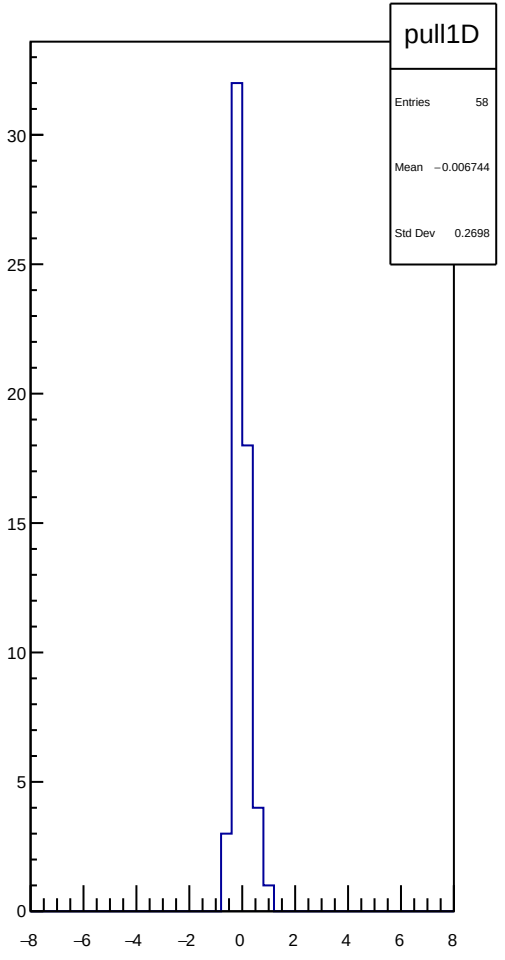

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 32.22 / 57
p0 −46.88 ± 0.1379
pull
Entries 58
Mean 153.8
Std Dev 111.4

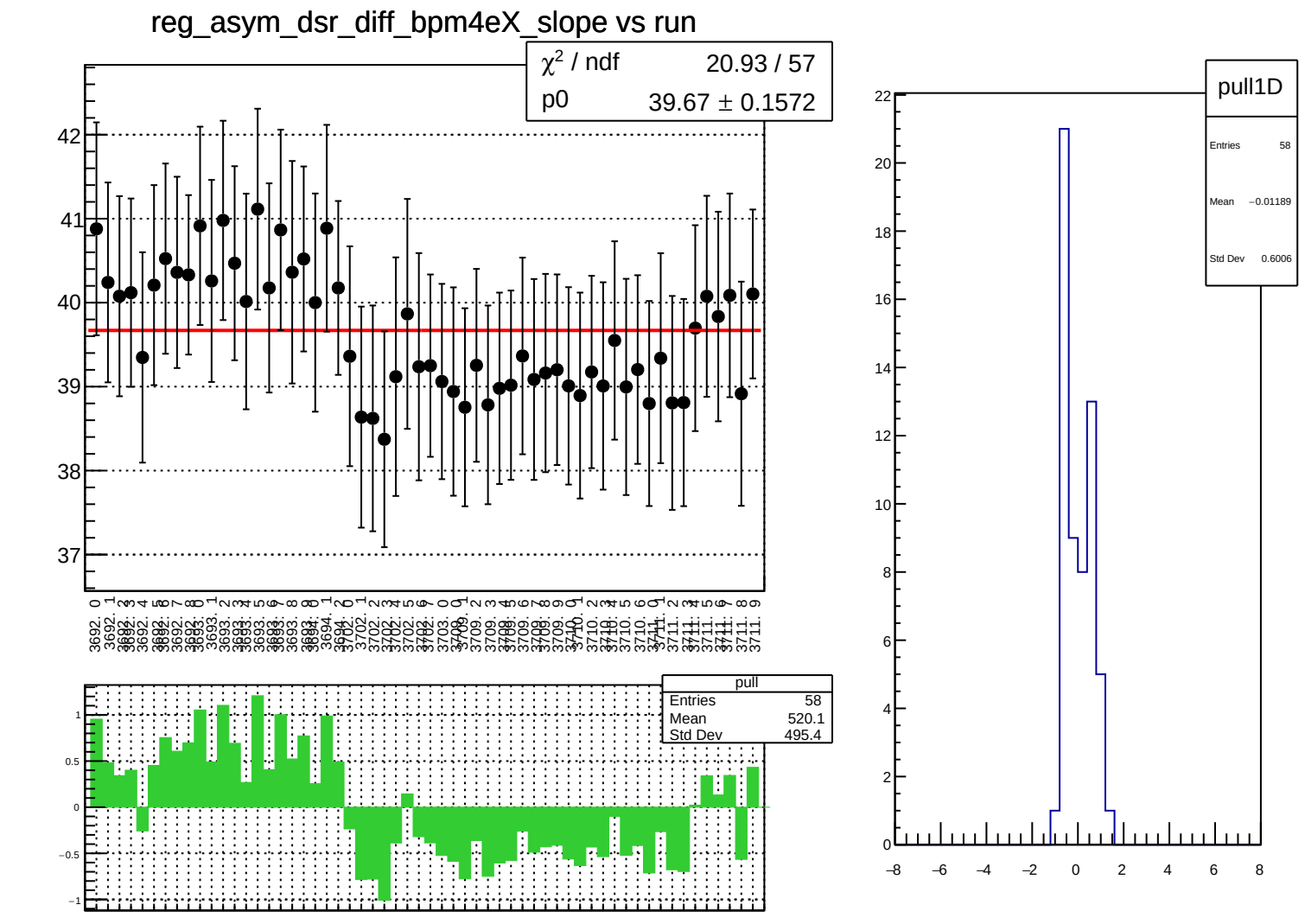

pull1D
Entries 58
Mean 0.01535
Std Dev 0.7452

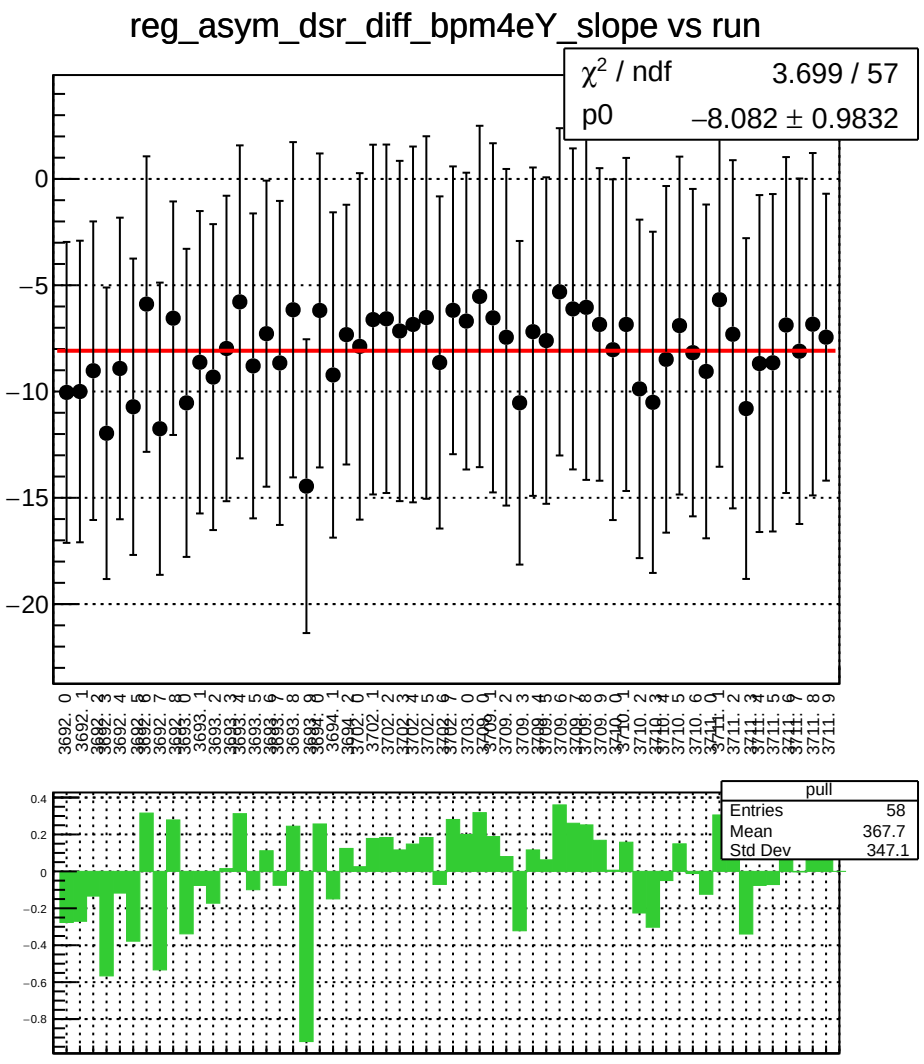

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 4.245 / 57
p0 −32.26 ± 0.8159
pull
Entries 58
Mean −7522
Std Dev 7544

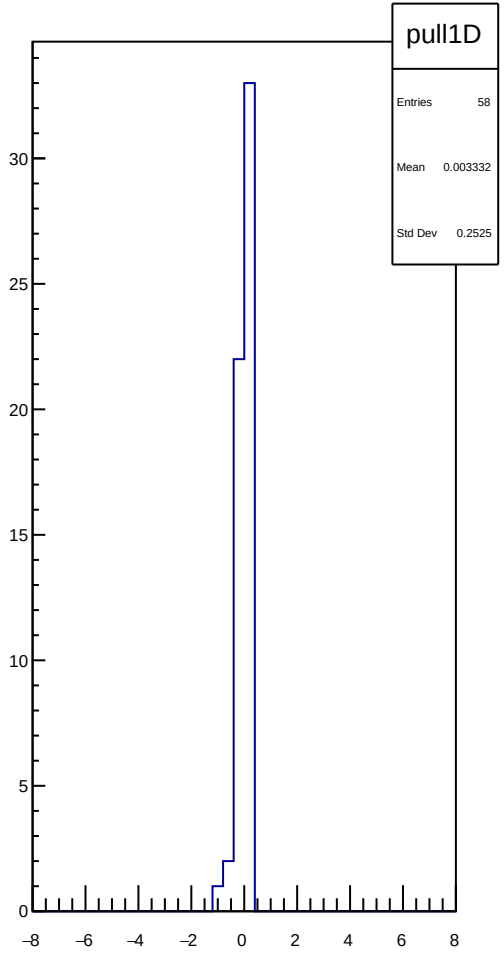

pull1D
Entries 58
Mean 0.000174
Std Dev 0.2705

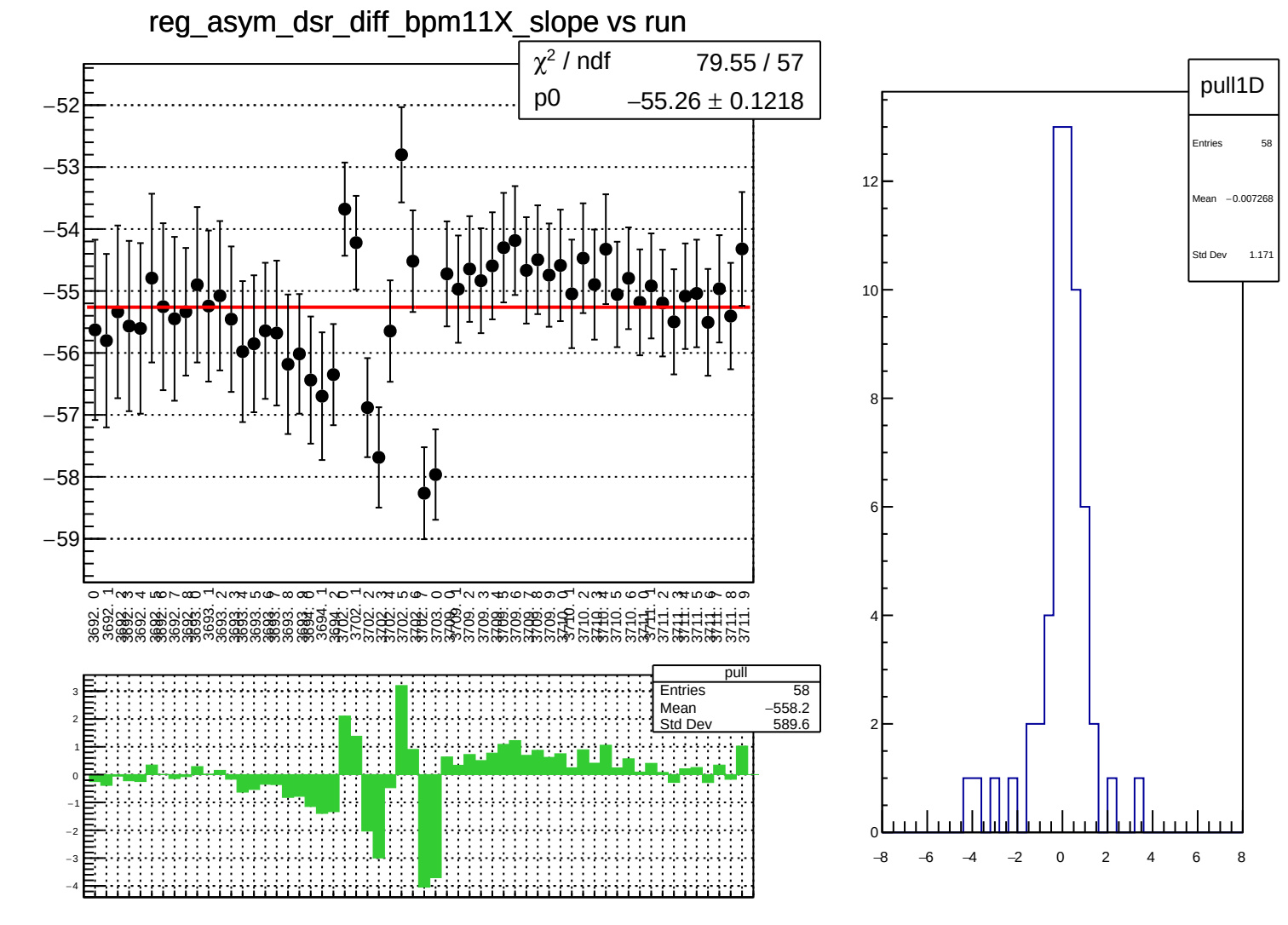

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 4.226 / 57
p0 13.01 ± 0.6284
pull
Entries 58
Mean 228.8
Std Dev 207.3

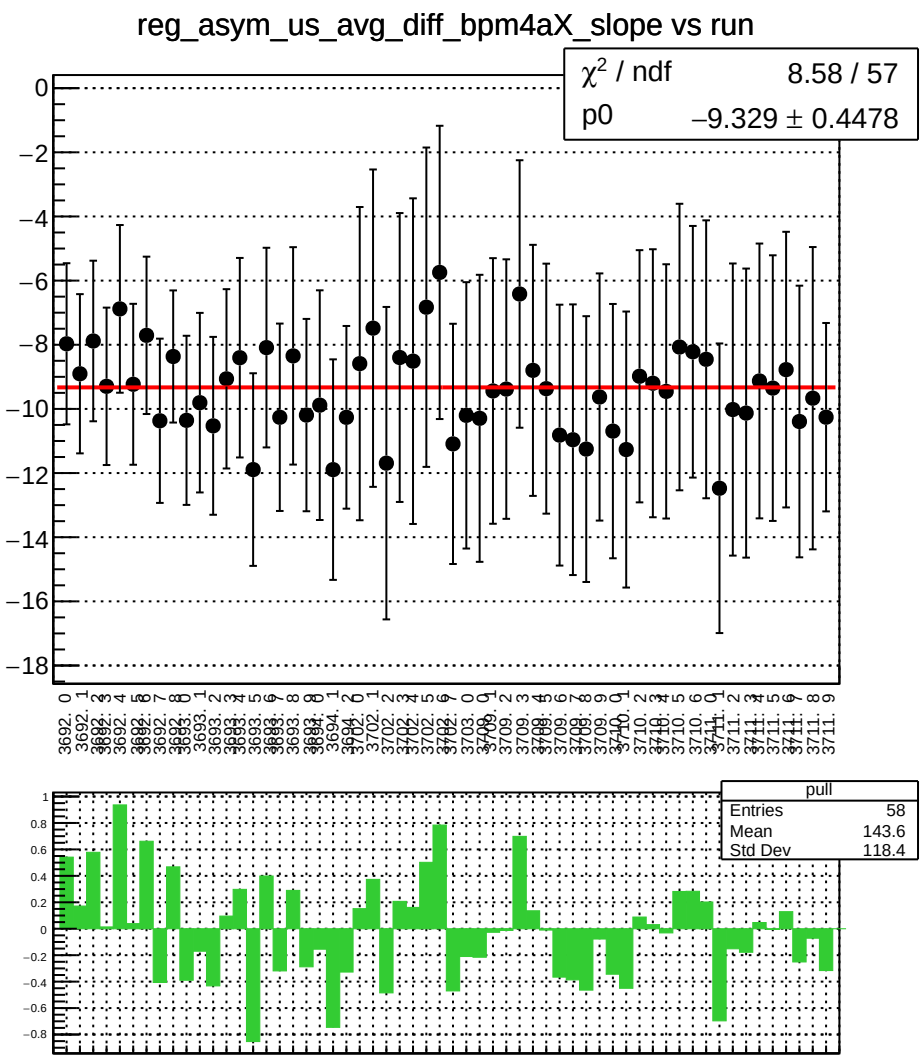

pull1D
Entries 58
Mean −0.006744
Std Dev 0.2698

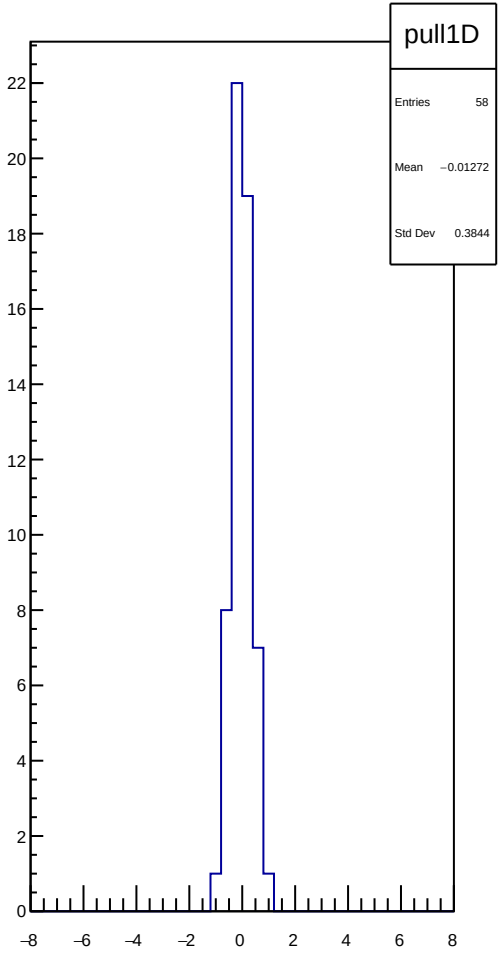

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 20.93 / 57
p0 39.67 ± 0.1572
pull
Entries 58
Mean 520.1
Std Dev 495.4
pull1D
Entries 58
Mean −0.01189
Std Dev 0.6006

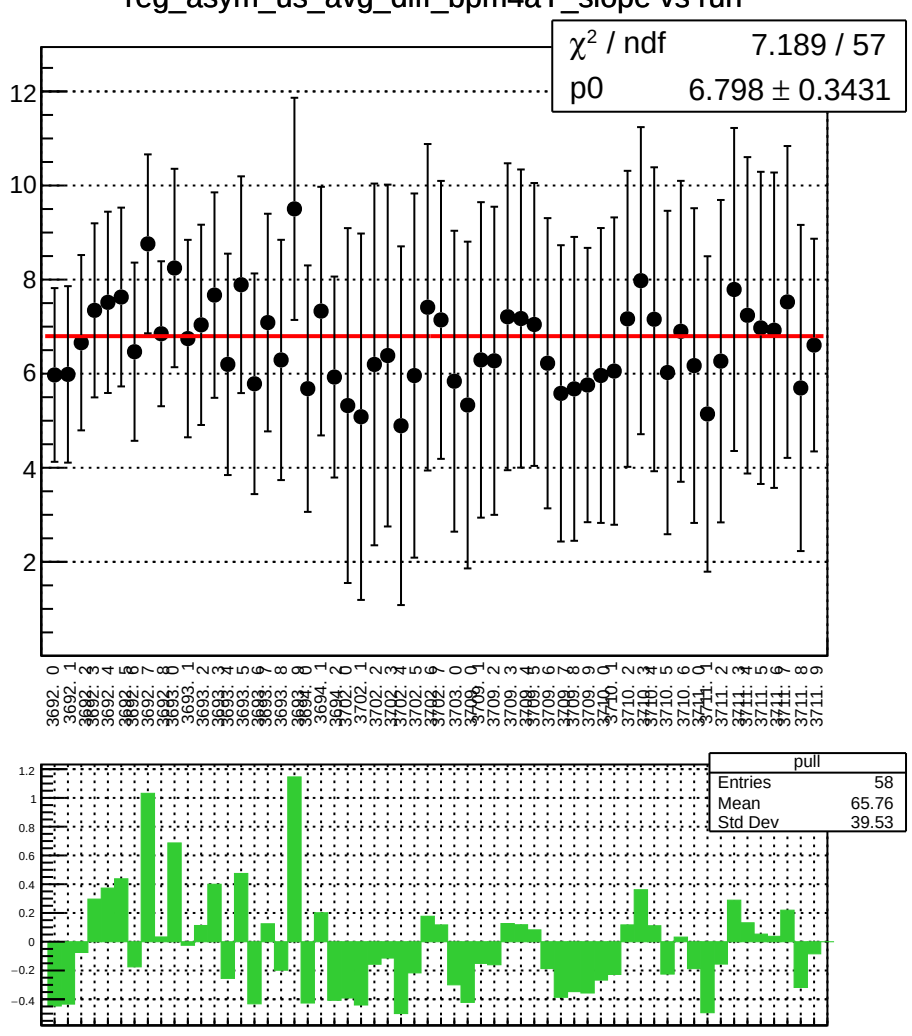

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 3.699 / 57
p0 −8.082 ± 0.9832
pull
Entries 58
Mean 367.7
Std Dev 347.1

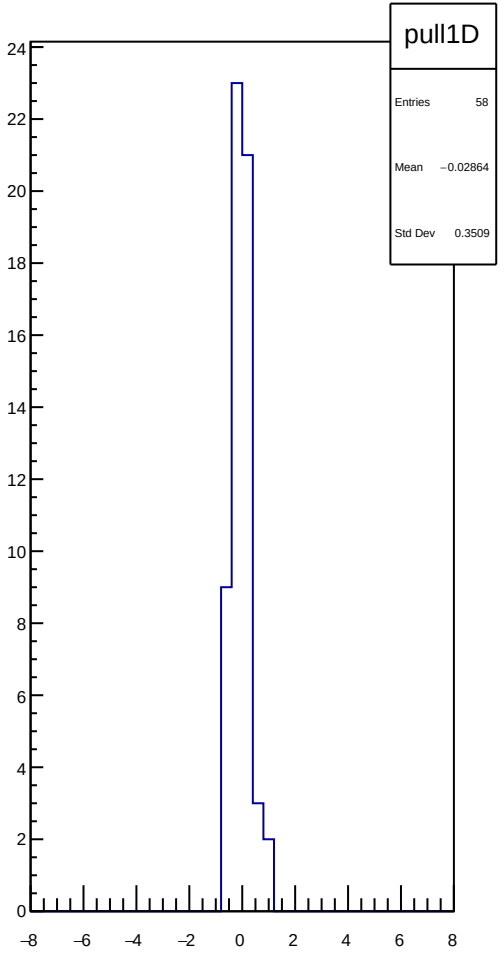

pull1D
Entries 58
Mean 0.003332
Std Dev 0.2525

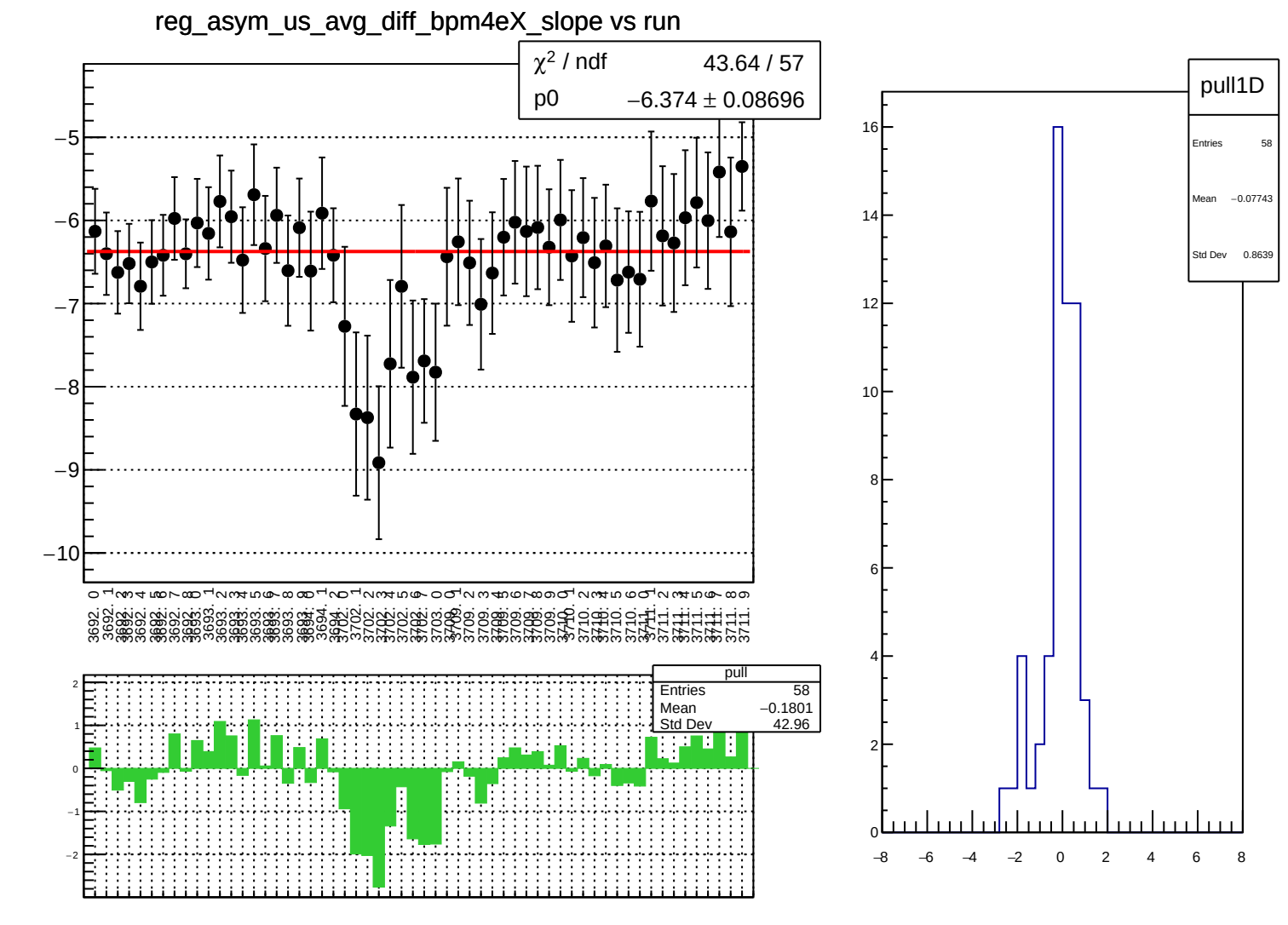

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 79.55 / 57
p0 −55.26 ± 0.1218
pull
Entries 58
Mean −558.2
Std Dev 589.6
pull1D
Entries 58
Mean −0.007268
Std Dev 1.171

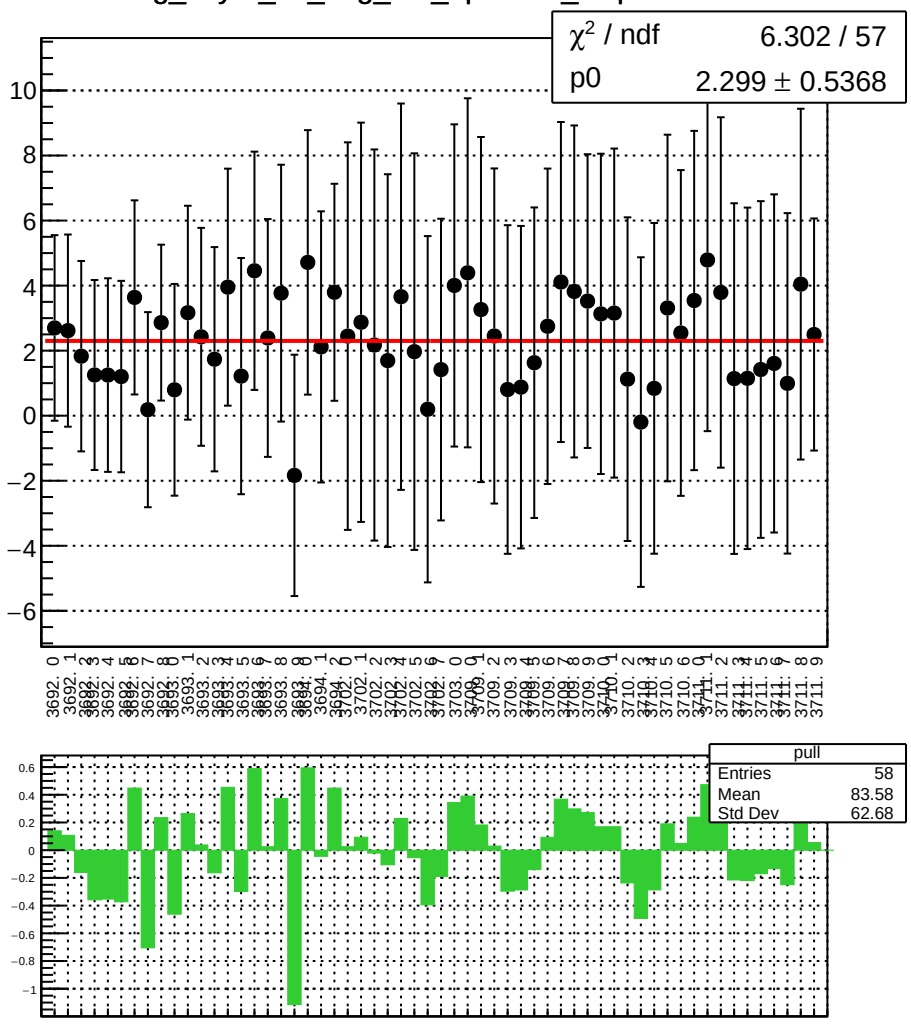

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.58 / 57
p0 −9.329 ± 0.4478
pull
Entries 58
Mean 143.6
Std Dev 118.4

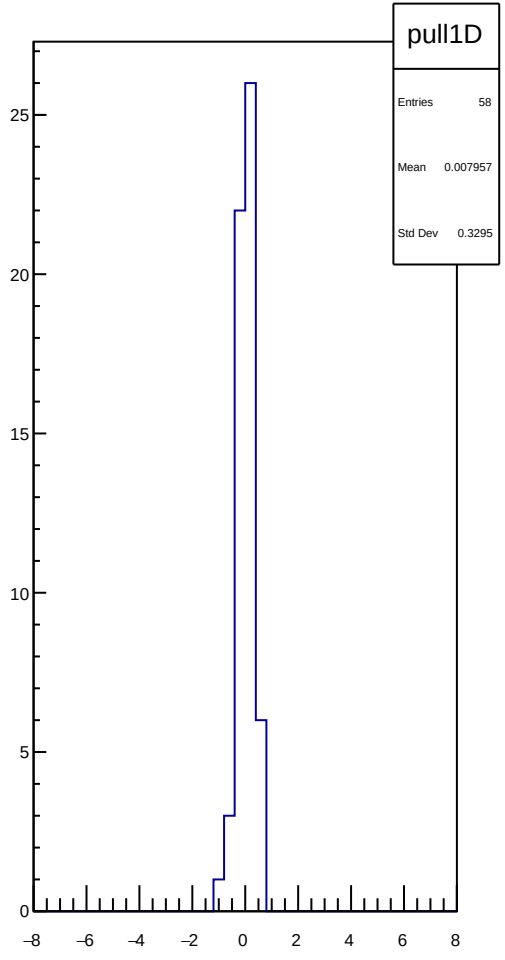

pull1D
Entries 58
Mean −0.01272
Std Dev 0.3844

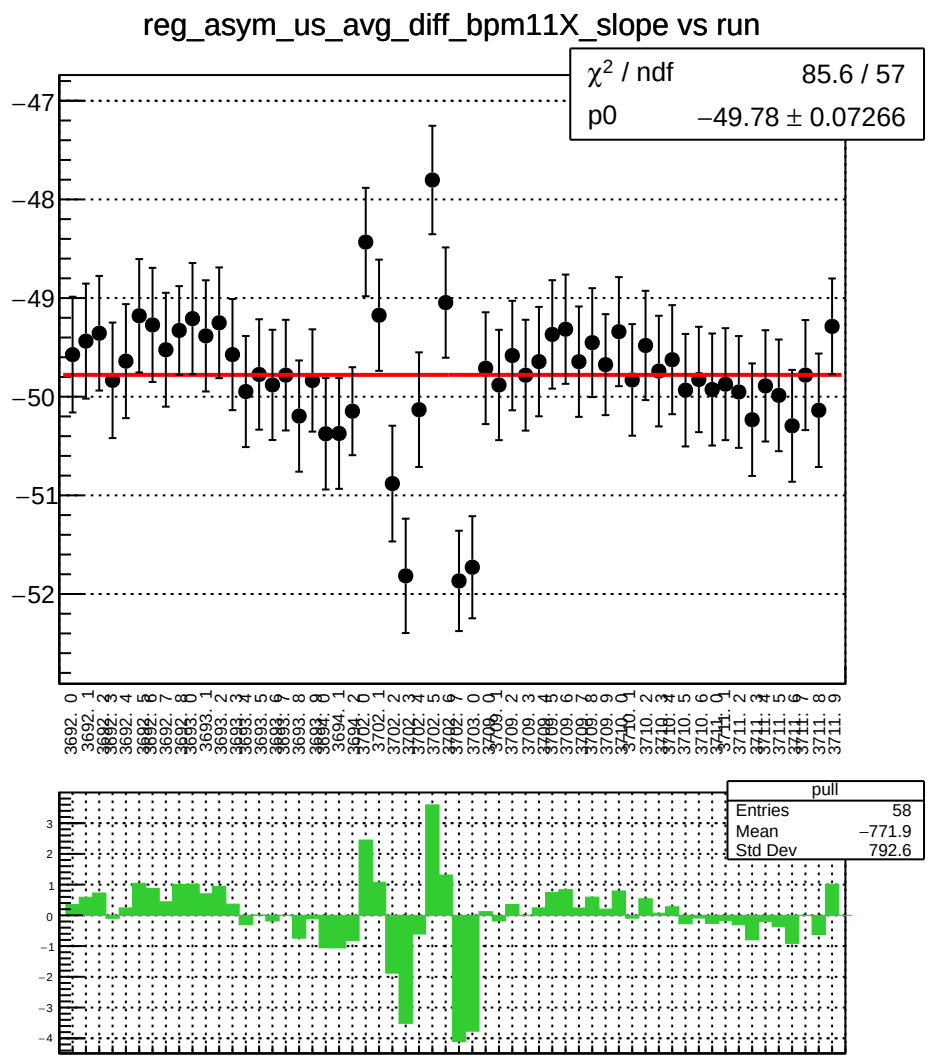

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.189 / 57
p0 6.798 ± 0.3431
pull
Entries 58
Mean 65.76
Std Dev 39.53

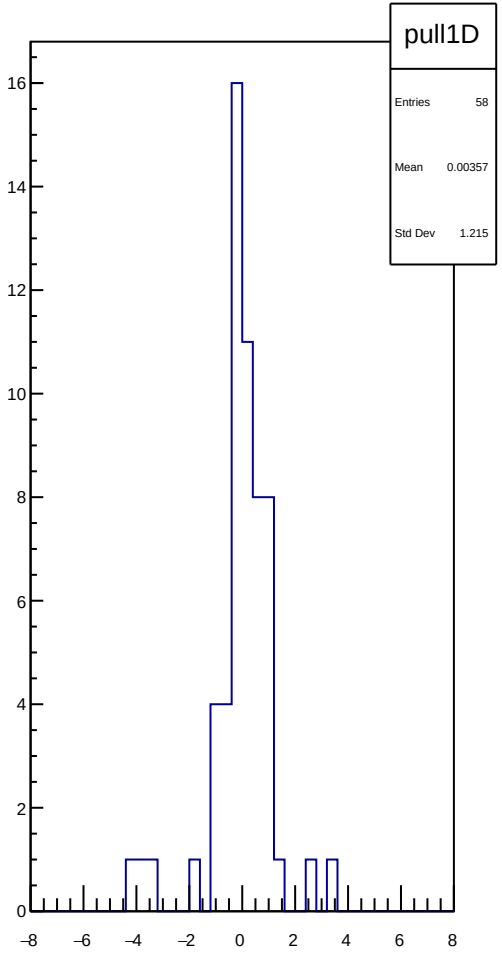

pull1D
Entries 58
Mean −0.02864
Std Dev 0.3509

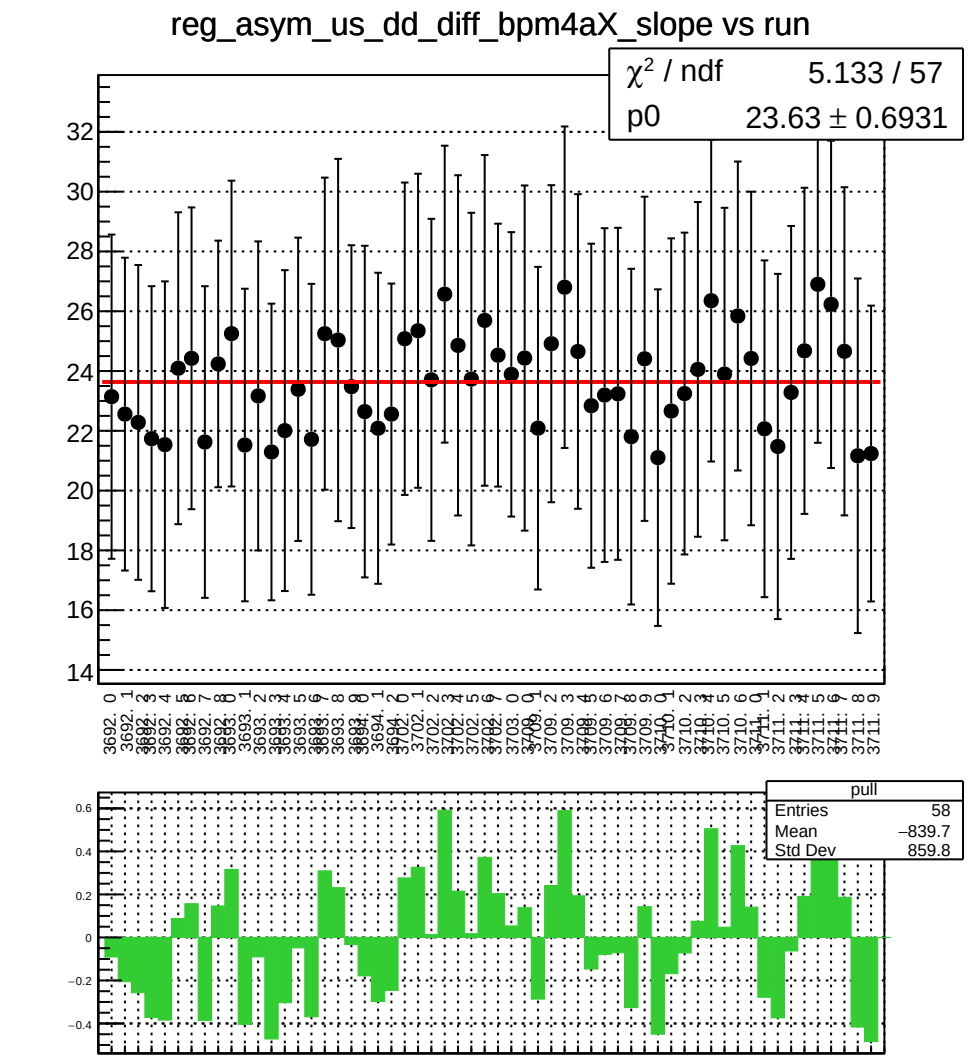

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.64 / 57
p0 −6.374 ± 0.08696
pull
Entries 58
Mean −0.1801
Std Dev 42.96
pull1D
Entries 58
Mean −0.07743
Std Dev 0.8639

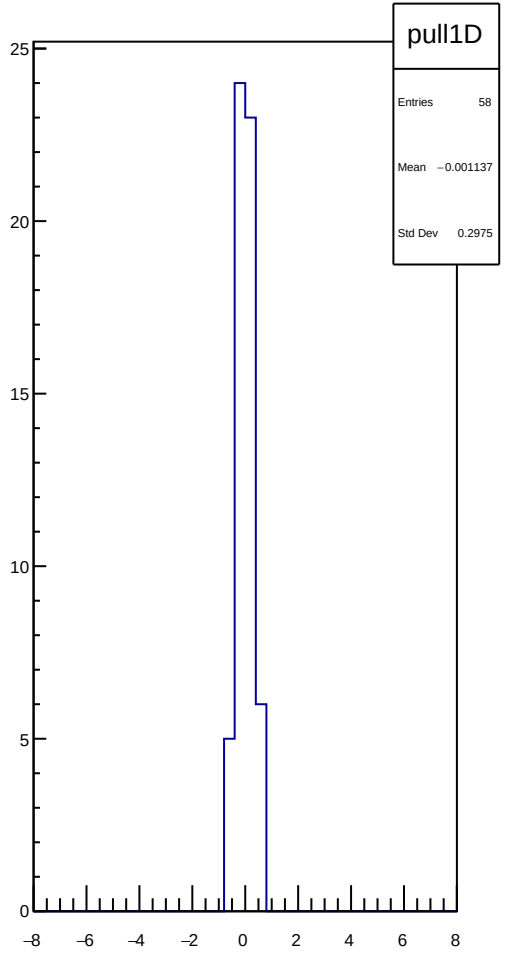

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.302 / 57
p0 2.299 ± 0.5368
pull
Entries 58
Mean 83.58
Std Dev 62.68

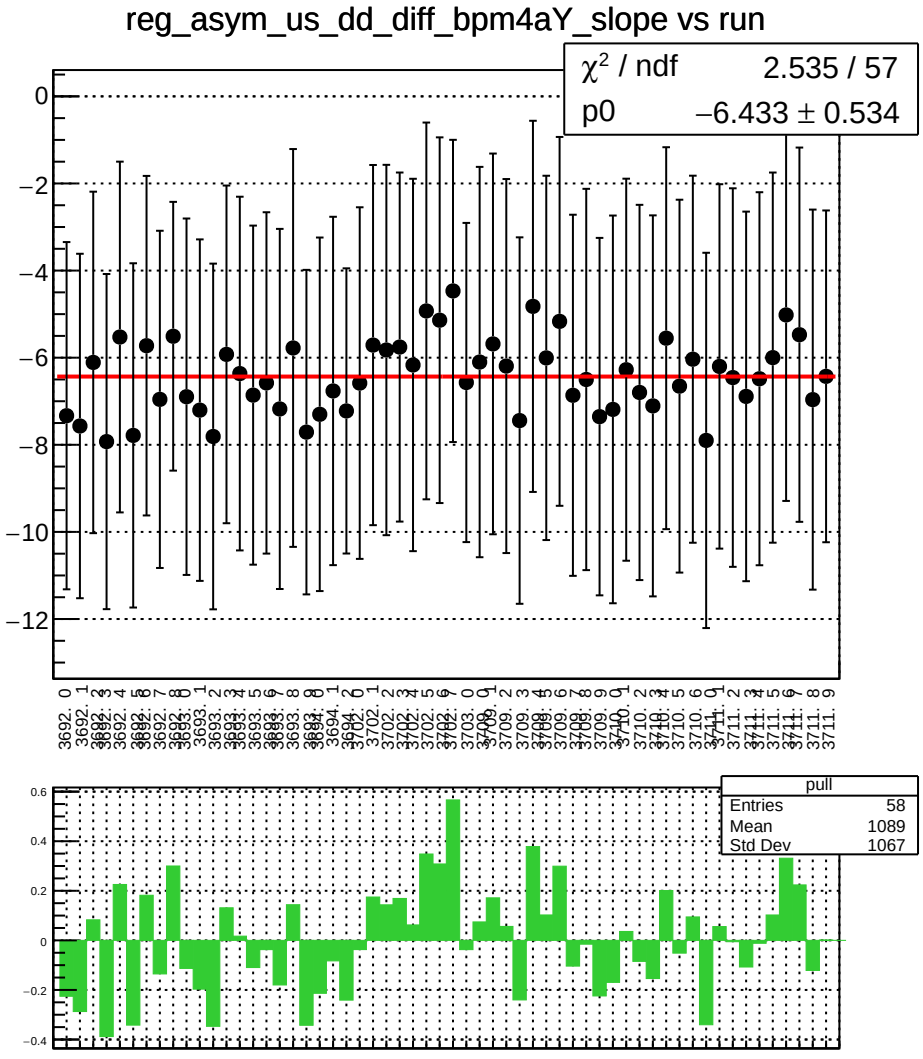

pull1D
Entries 58
Mean 0.007957
Std Dev 0.3295

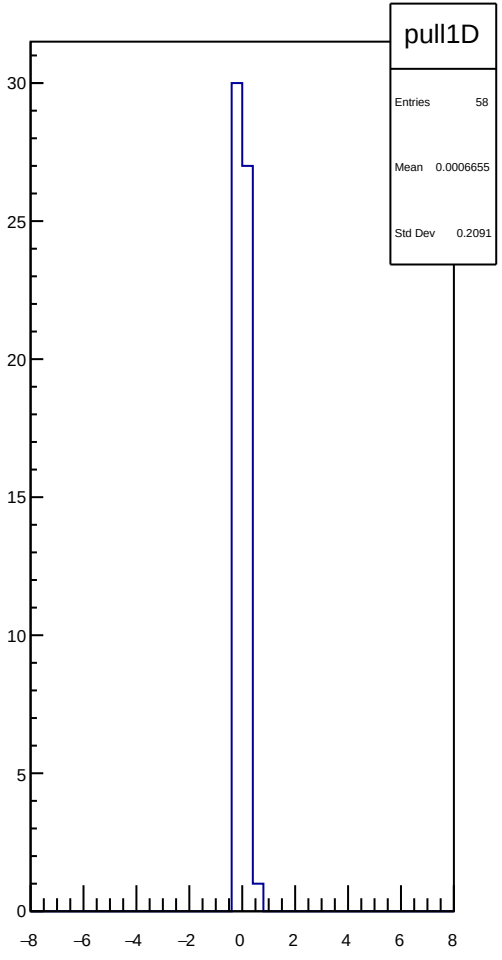

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 85.6 / 57
p0 −49.78 ± 0.07266
pull
Entries 58
Mean −771.9
Std Dev 792.6

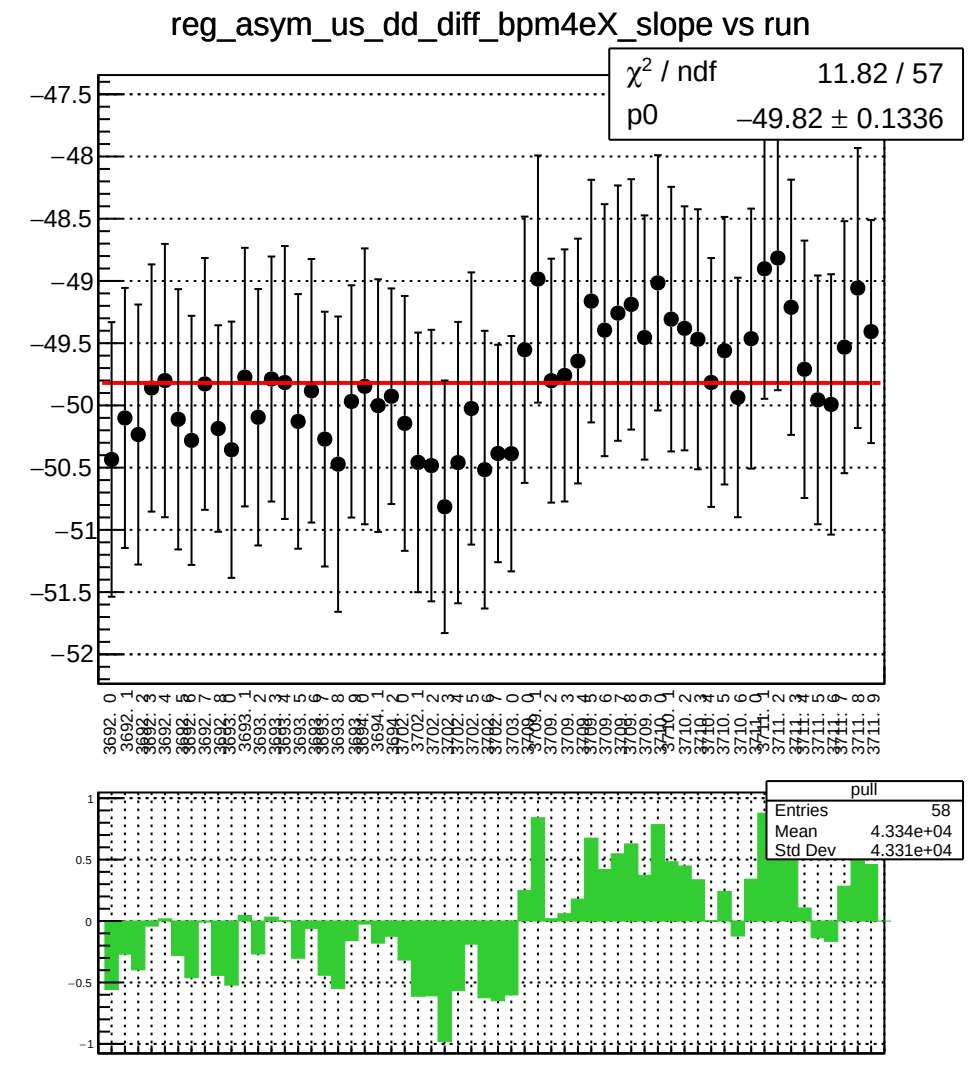

pull1D
Entries 58
Mean 0.00357
Std Dev 1.215

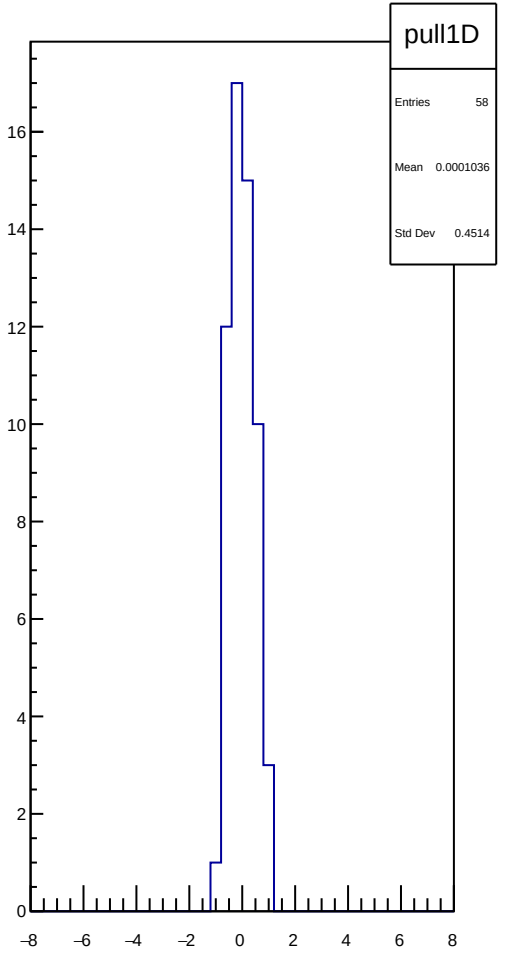

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.133 / 57
p0 23.63 ± 0.6931
pull
Entries 58
Mean −839.7
Std Dev 859.8

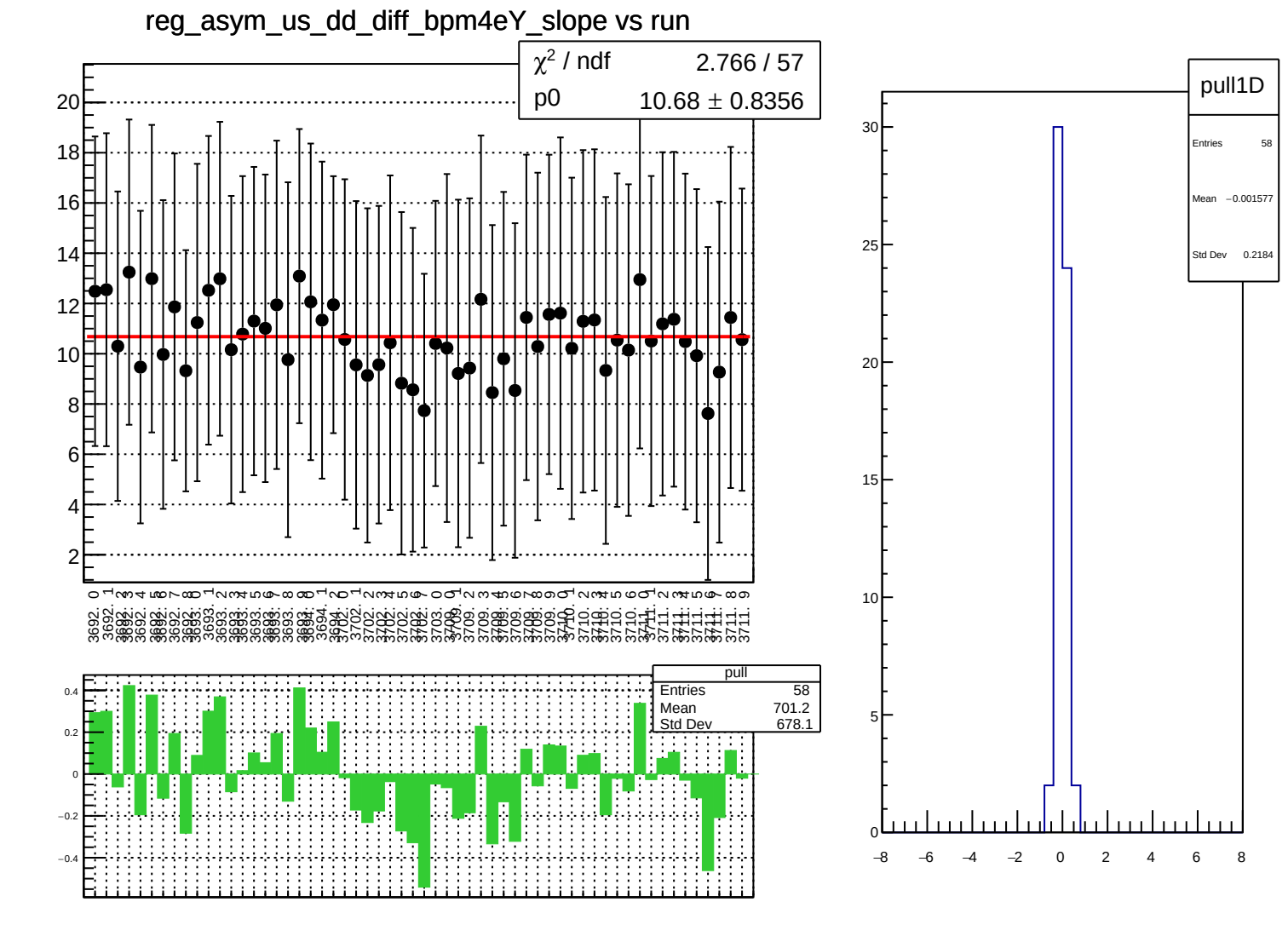

pull1D
Entries 58
Mean −0.001137
Std Dev 0.2975

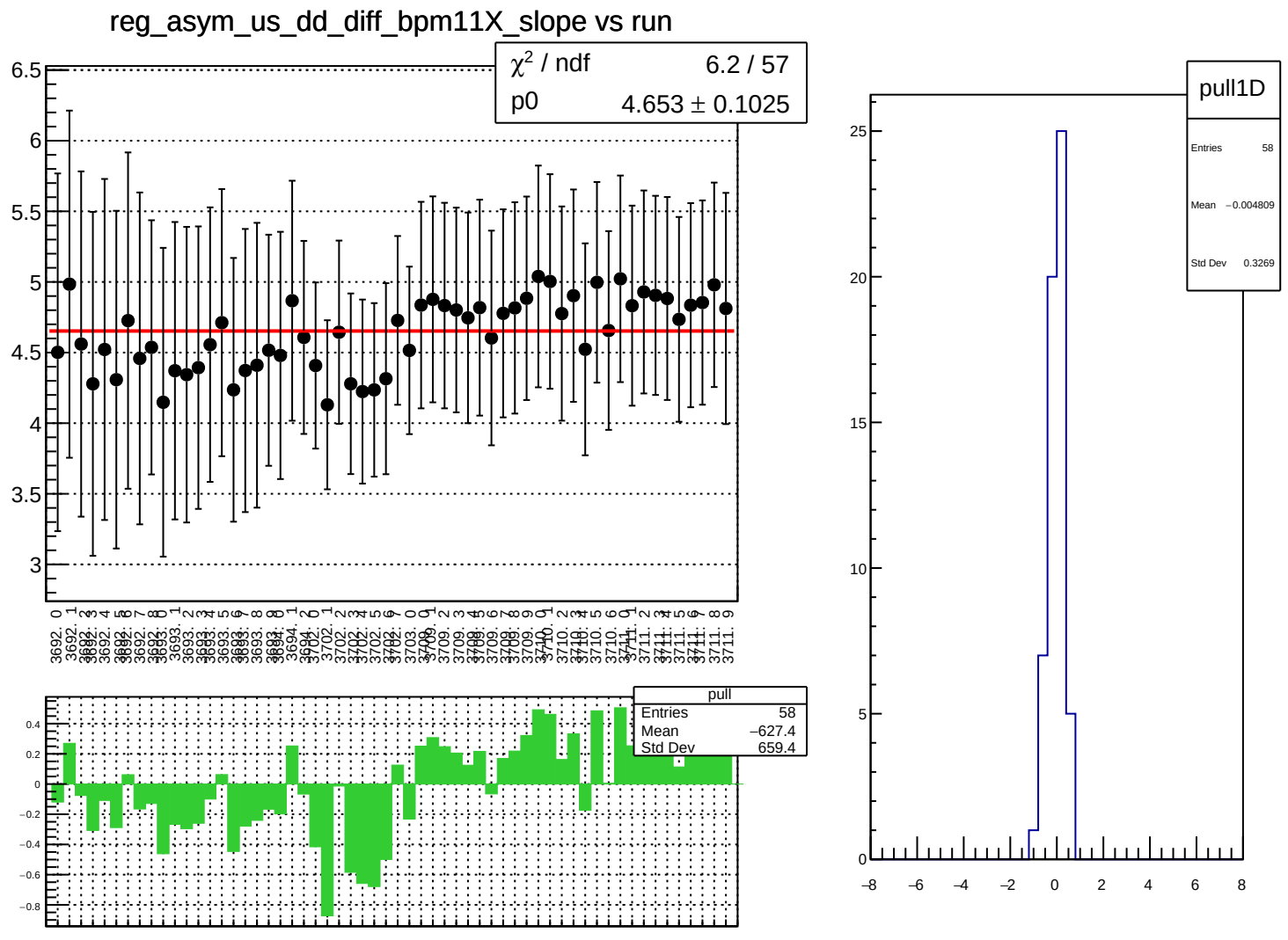

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.535 / 57
p0 −6.433 ± 0.534
pull
Entries 58
Mean 1089
Std Dev 1067

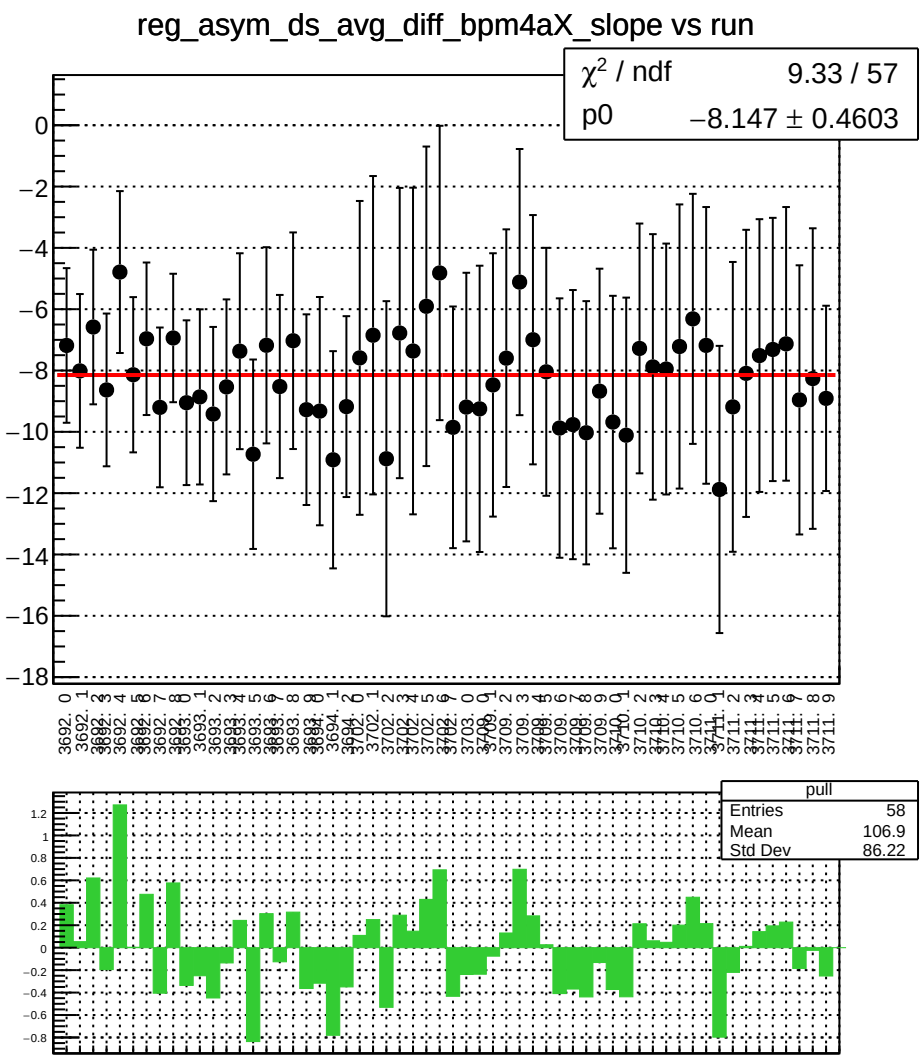

pull1D
Entries 58
Mean 0.0006655
Std Dev 0.2091

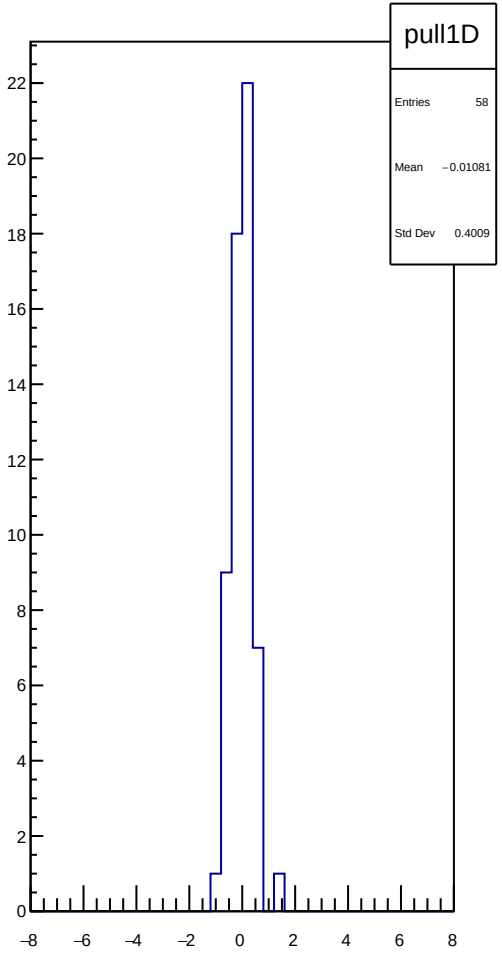

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 11.82 / 57
p0 −49.82 ± 0.1336
pull
Entries 58
Mean 4.334e+04
Std Dev 4.331e+04

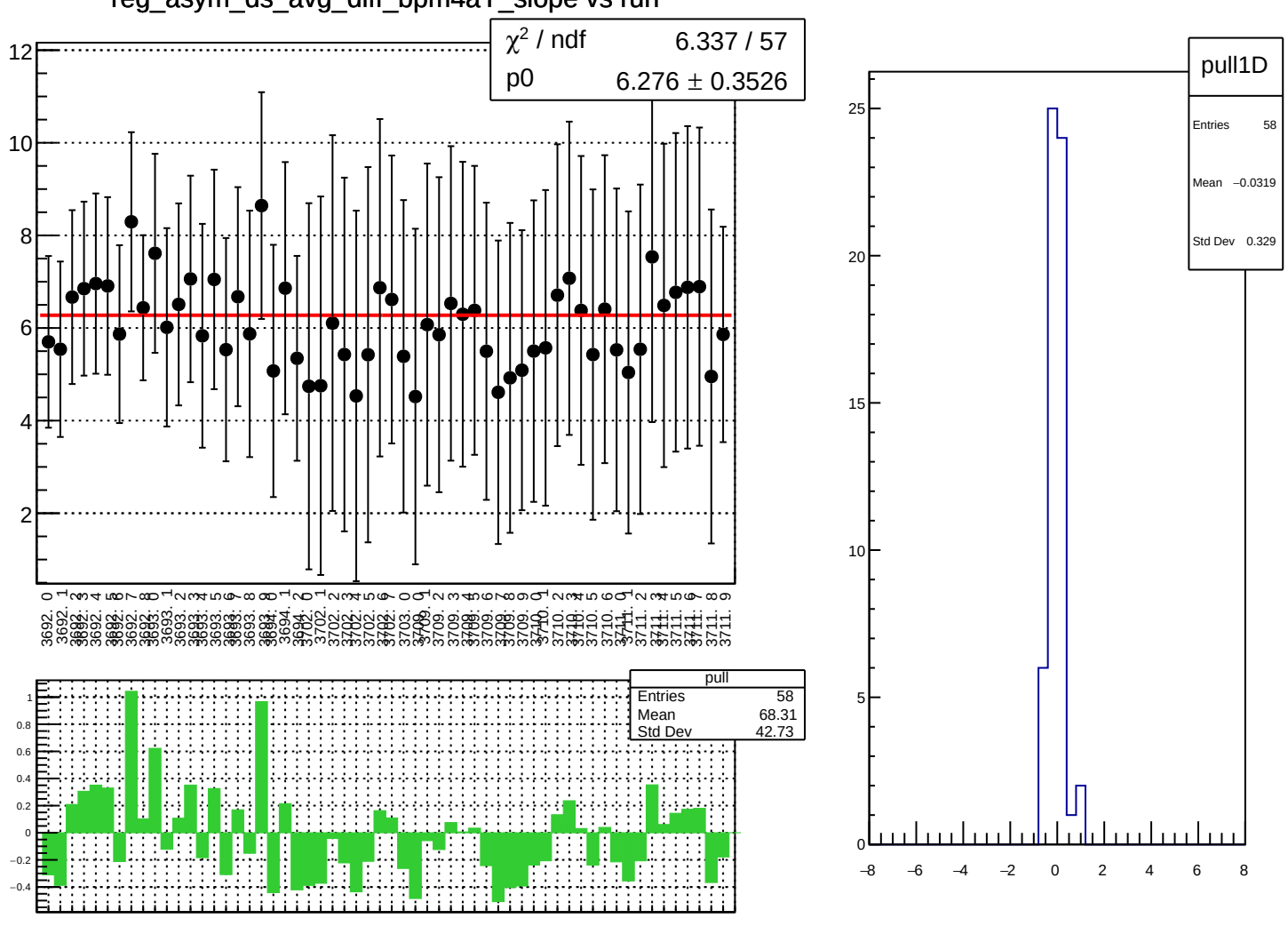

pull1D
Entries 58
Mean 0.0001036
Std Dev 0.4514

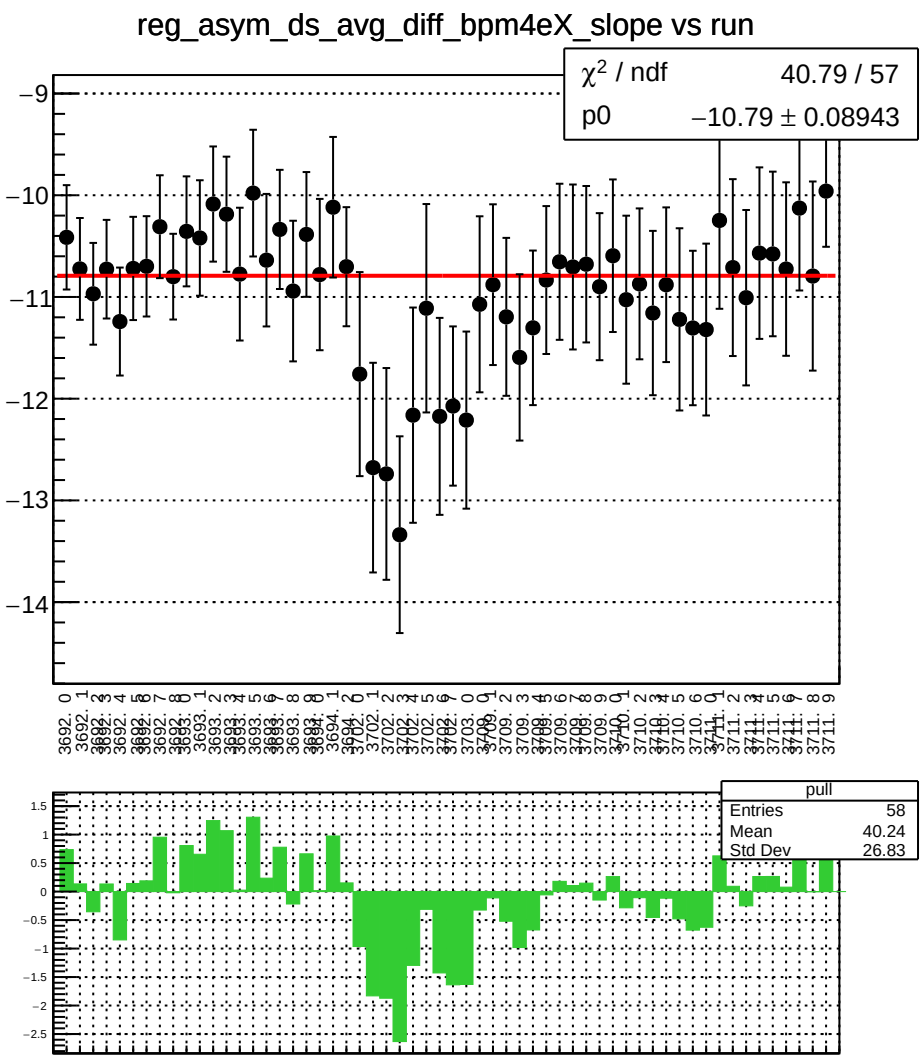

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.766 / 57
p0 10.68 ± 0.8356
pull
Entries 58
Mean 701.2
Std Dev 678.1
pull1D
Entries 58
Mean −0.001577
Std Dev 0.2184

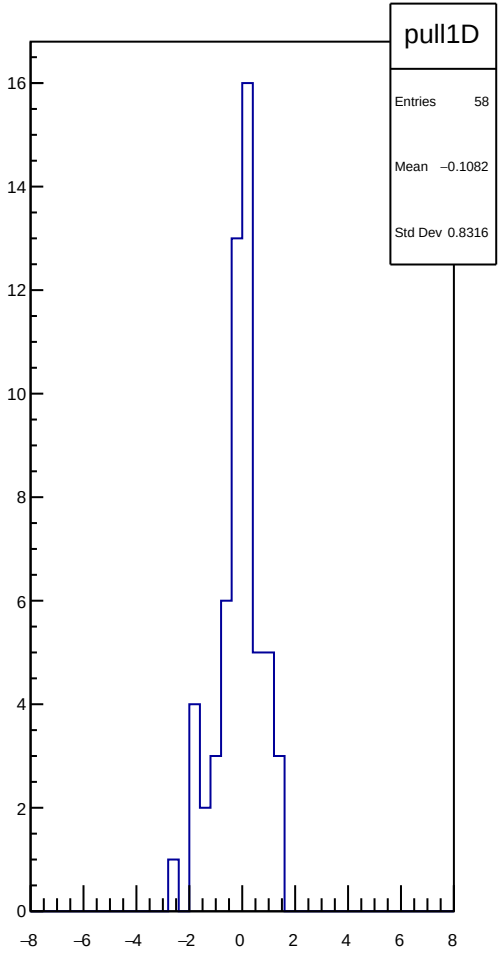

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 6.2 / 57
p0 4.653 ± 0.1025
pull
Entries 58
Mean −627.4
Std Dev 659.4
pull1D
Entries 58
Mean −0.004809
Std Dev 0.3269

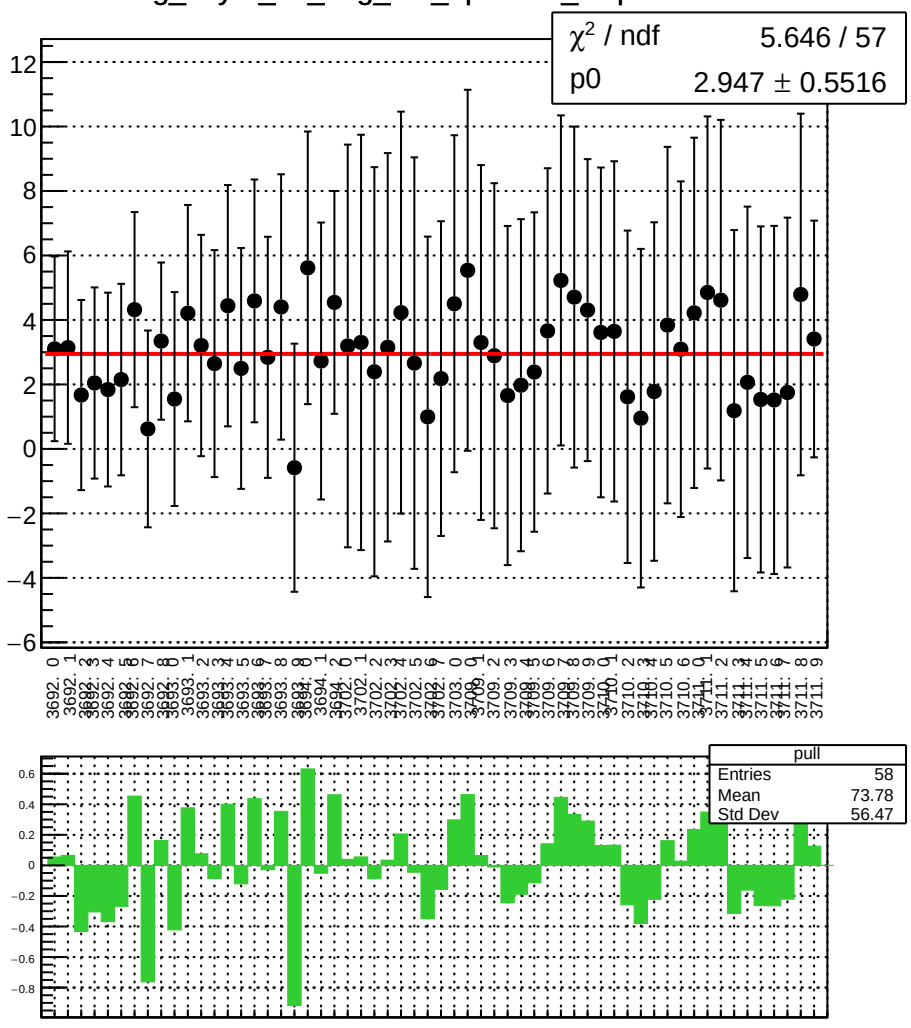

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.33 / 57
p0 −8.147 ± 0.4603
pull
Entries 58
Mean 106.9
Std Dev 86.22

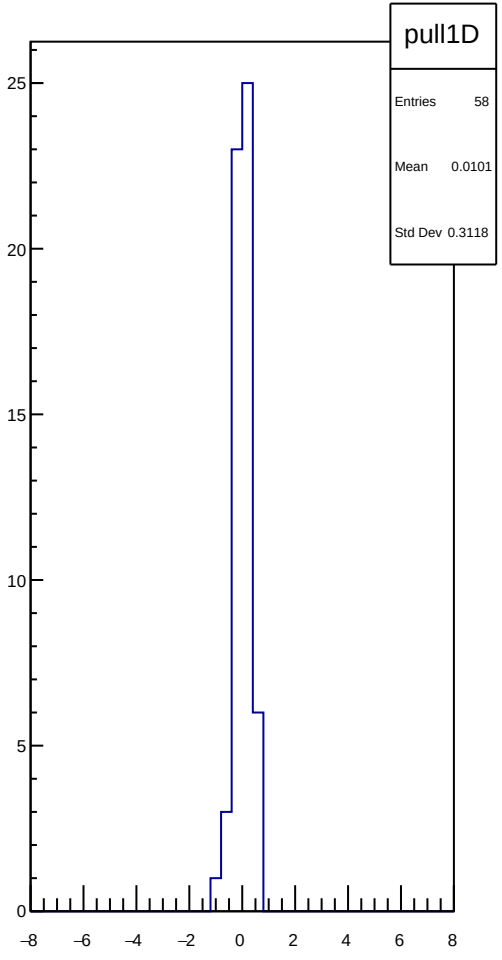

pull1D
Entries 58
Mean −0.01081
Std Dev 0.4009

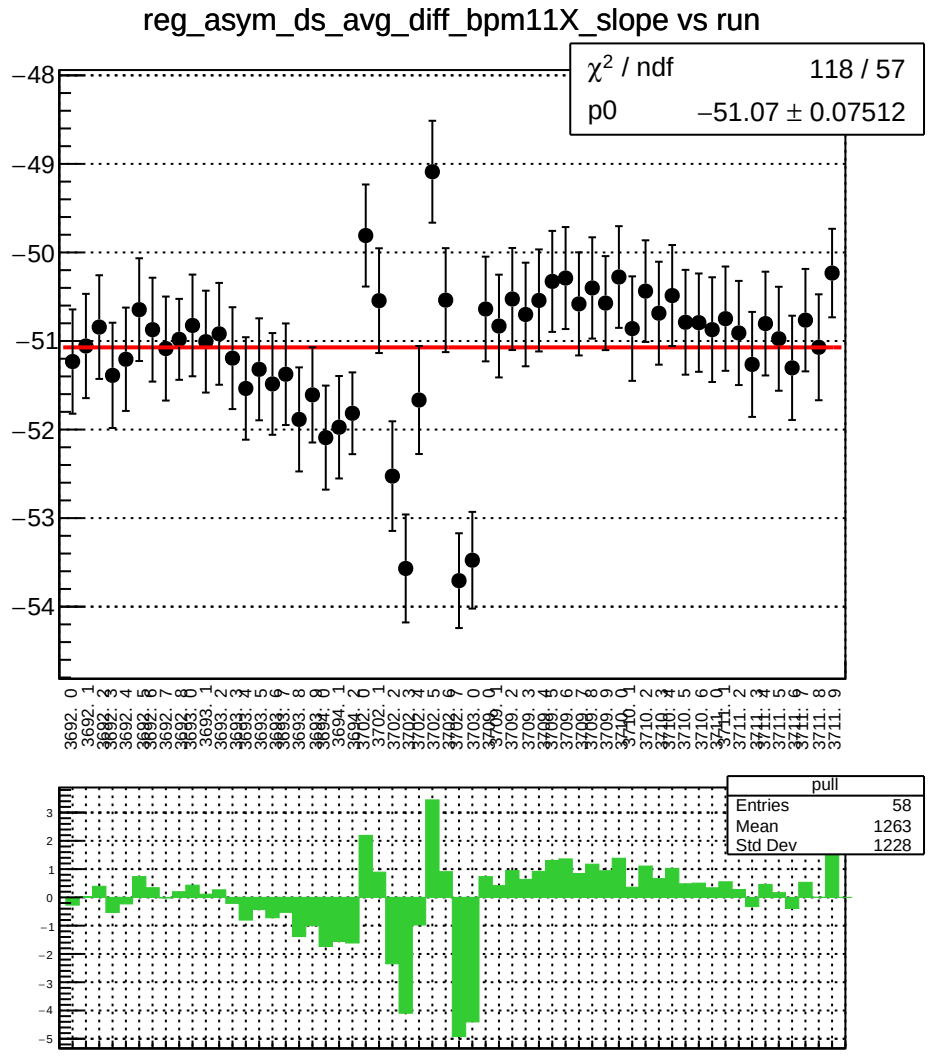

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.337 / 57
p0 6.276 ± 0.3526
pull
Entries 58
Mean 68.31
Std Dev 42.73
pull1D
Entries 58
Mean −0.0319
Std Dev 0.329

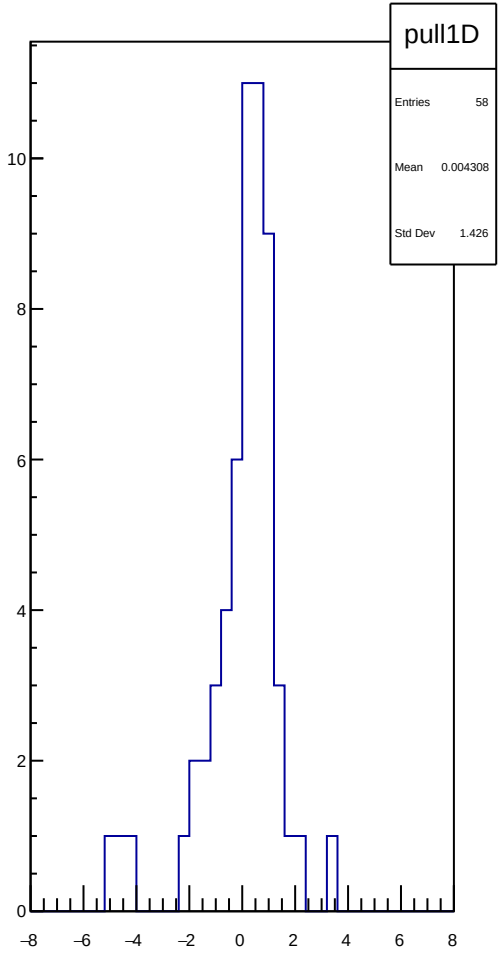

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.79 / 57
p0 −10.79 ± 0.08943
pull
Entries 58
Mean 40.24
Std Dev 26.83

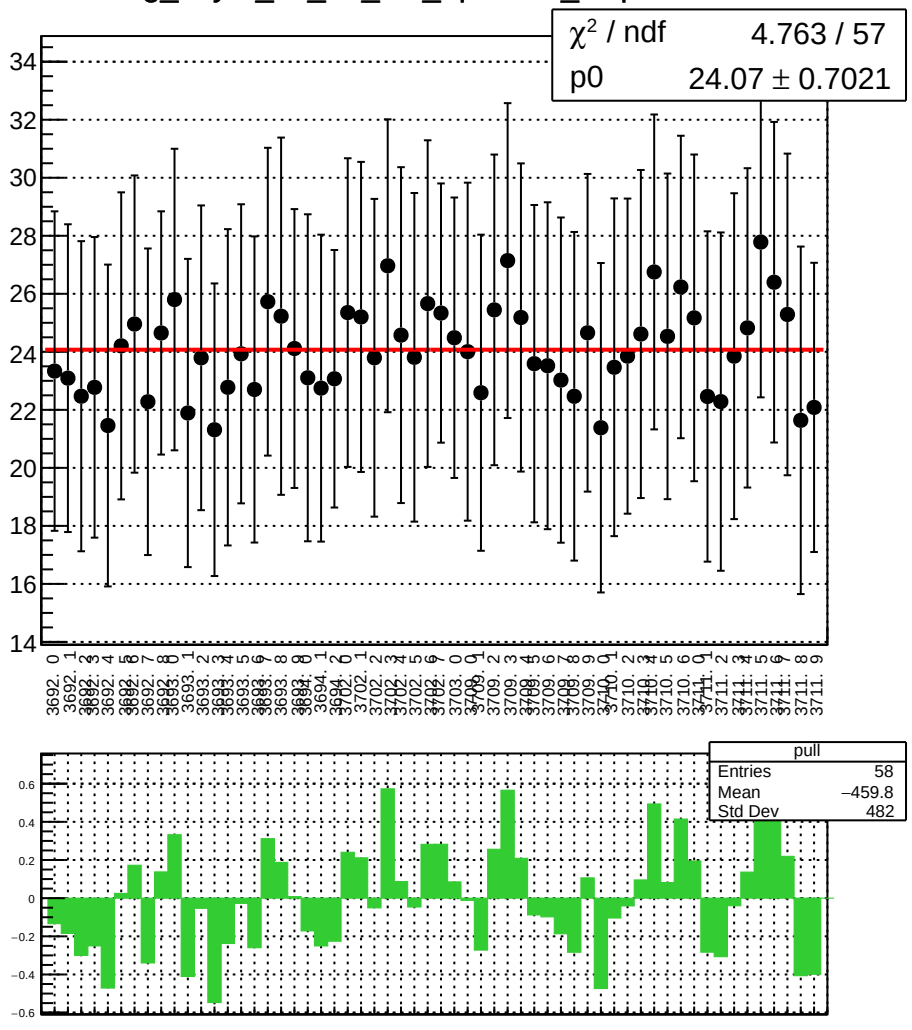

pull1D
Entries 58
Mean −0.1082
Std Dev 0.8316

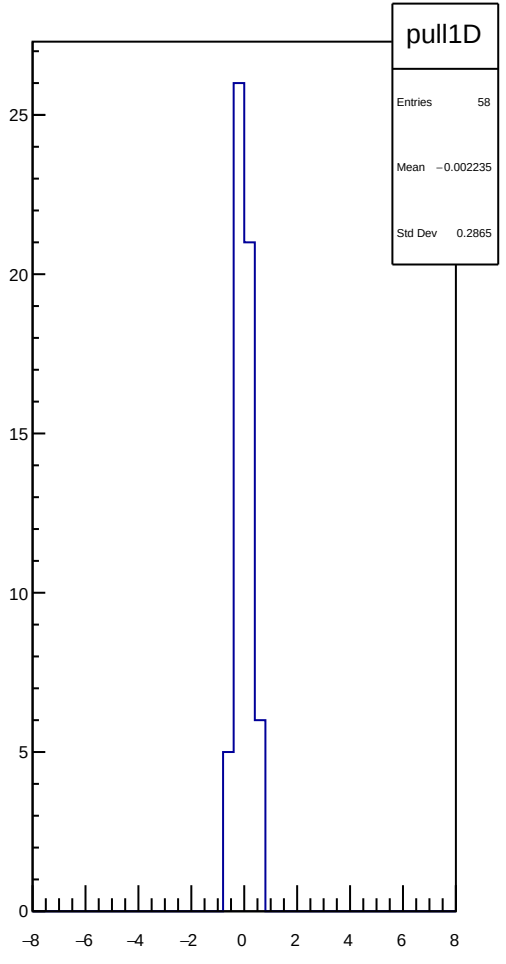

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.646 / 57
p0 2.947 ± 0.5516
pull
Entries 58
Mean 73.78
Std Dev 56.47

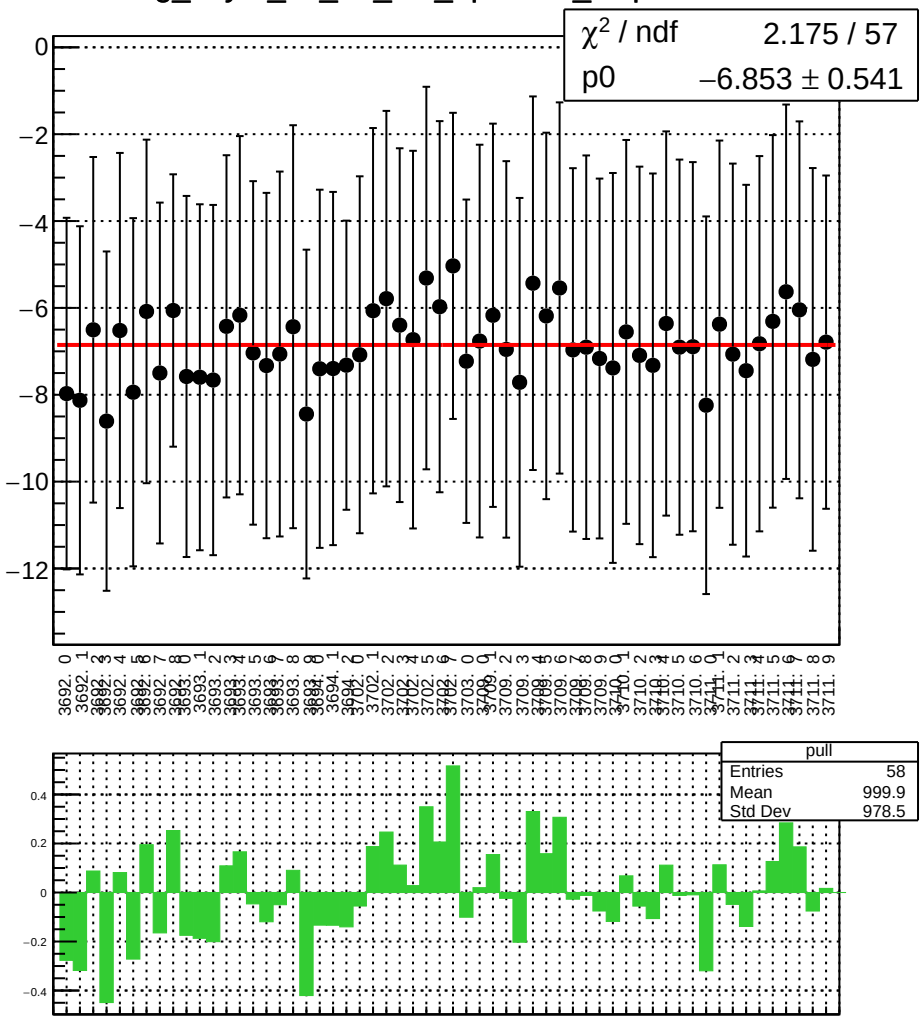

pull1D
Entries 58
Mean 0.0101
Std Dev 0.3118

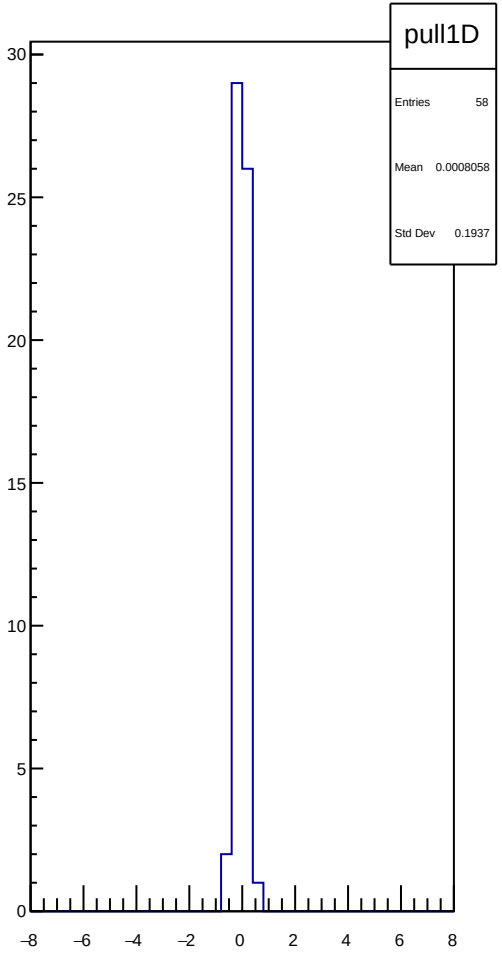

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 118 / 57
p0 −51.07 ± 0.07512
pull
Entries 58
Mean 1263
Std Dev 1228

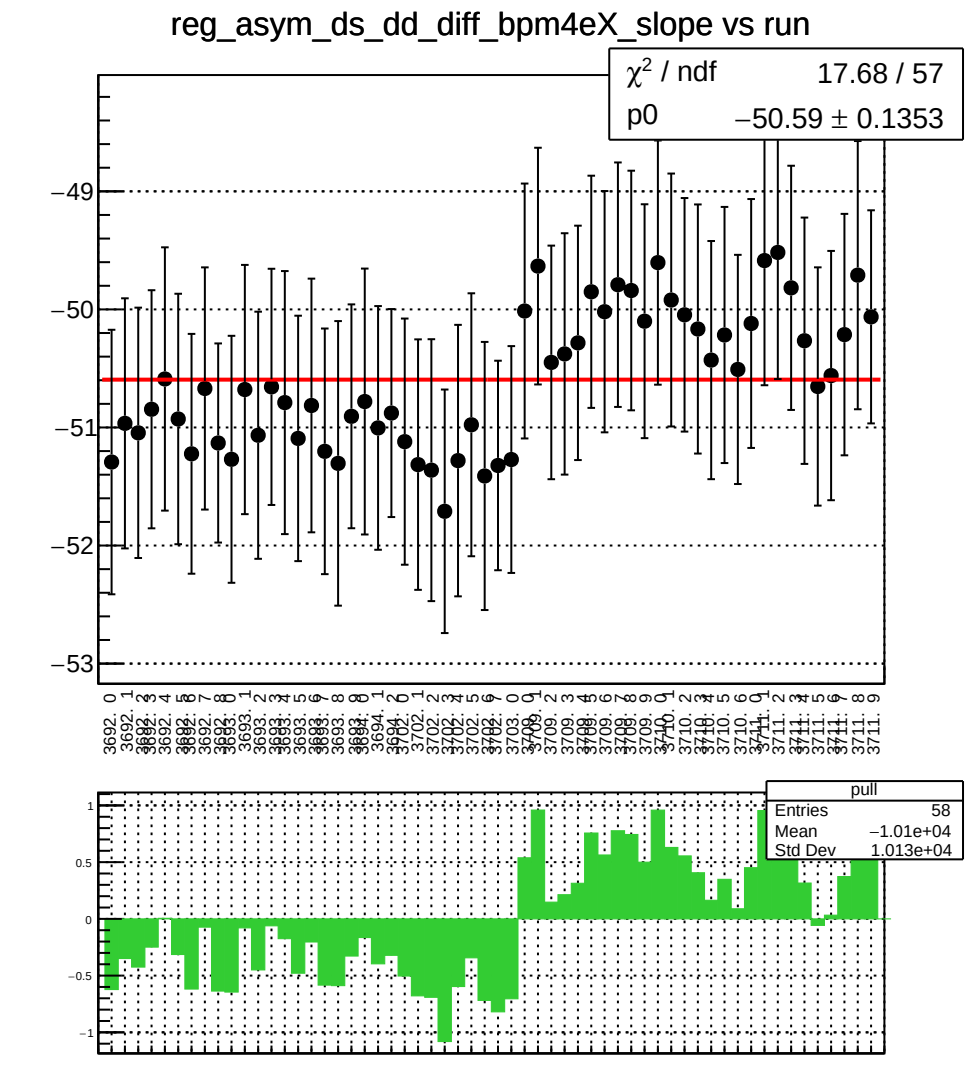

pull1D
Entries 58
Mean 0.004308
Std Dev 1.426

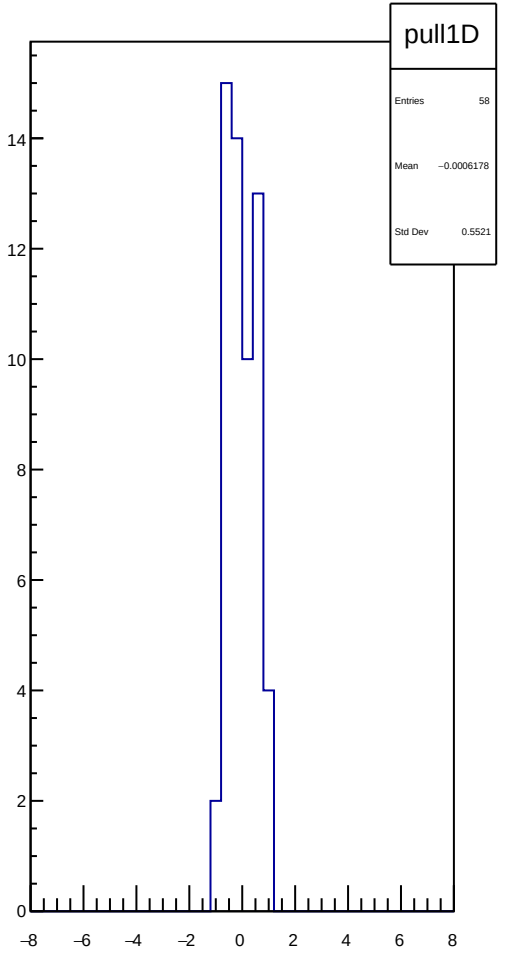

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.763 / 57
p0 24.07 ± 0.7021
pull
Entries 58
Mean −459.8
Std Dev 482

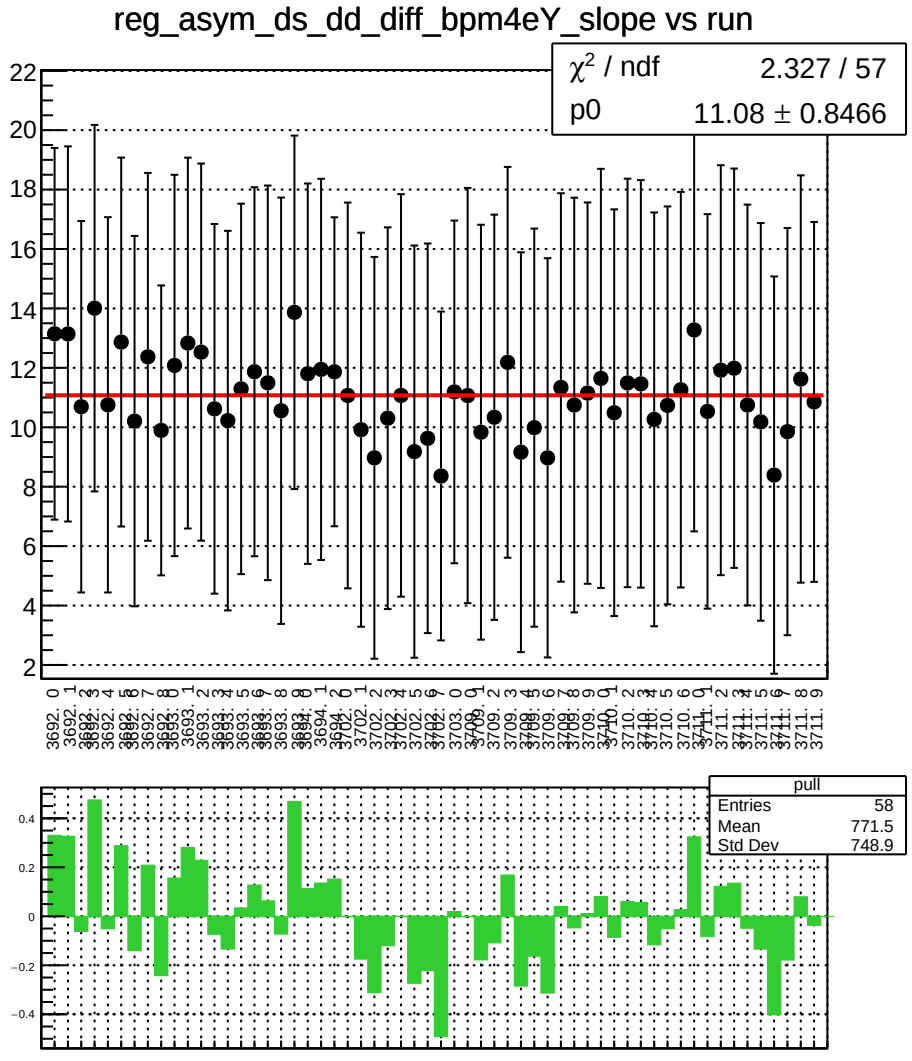

pull1D
Entries 58
Mean −0.002235
Std Dev 0.2865

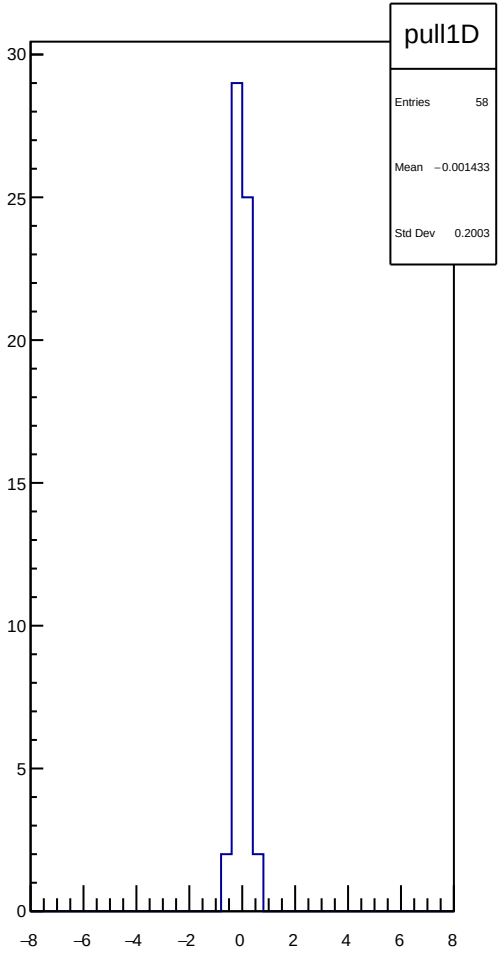

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.175 / 57
p0 −6.853 ± 0.541
pull
Entries 58
Mean 999.9
Std Dev 978.5

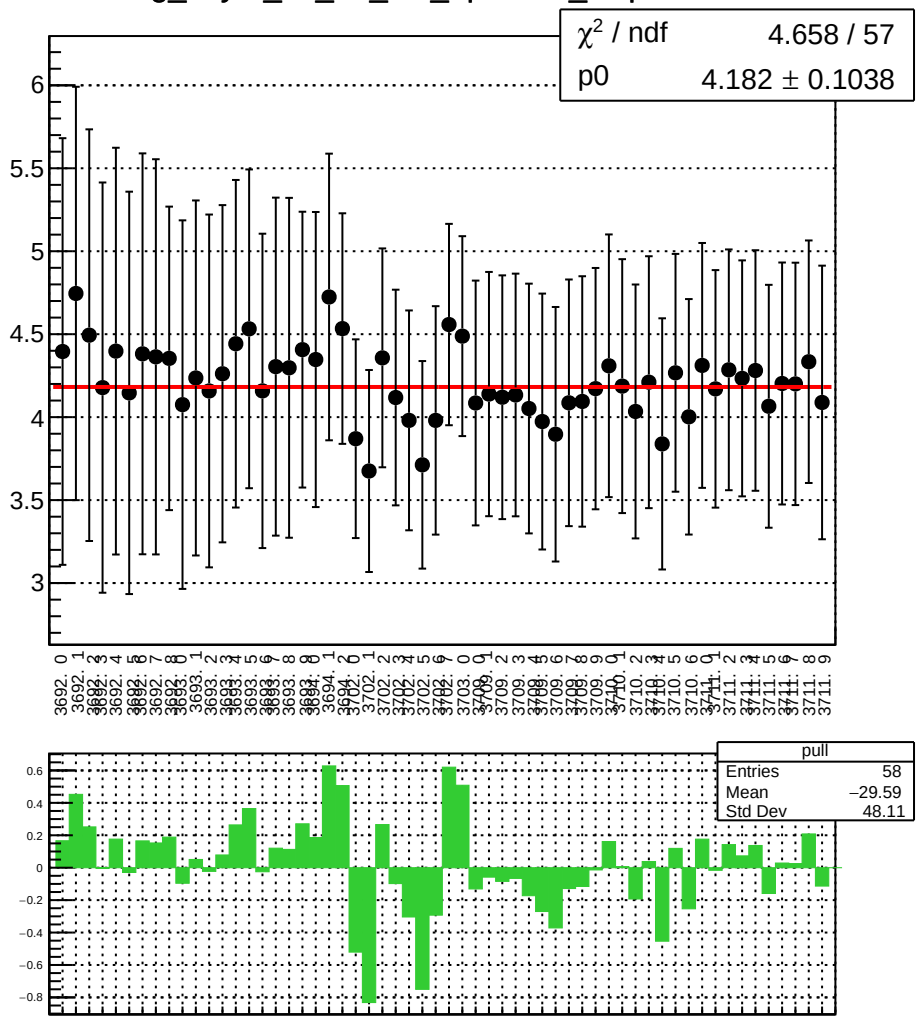

pull1D
Entries 58
Mean 0.0008058
Std Dev 0.1937

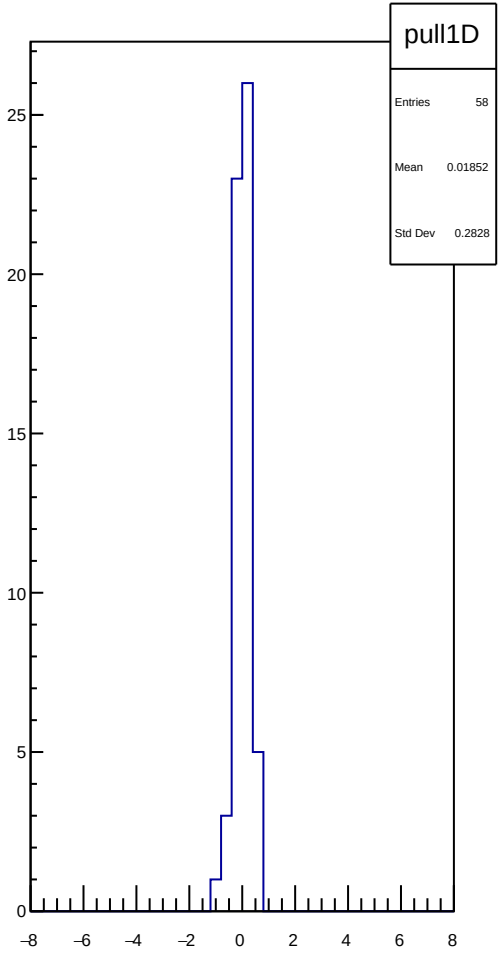

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.68 / 57
p0 −50.59 ± 0.1353
pull
Entries 58
Mean −1.01e+04
Std Dev 1.013e+04

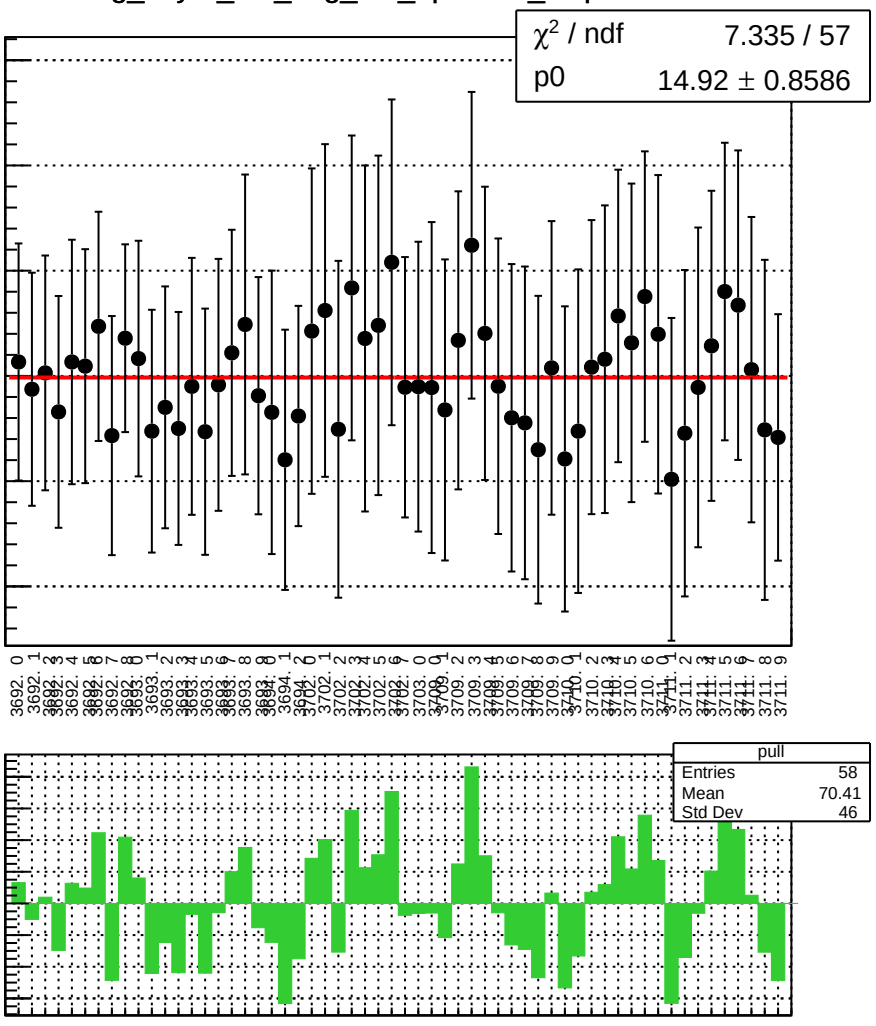

pull1D
Entries 58
Mean −0.0006178
Std Dev 0.5521

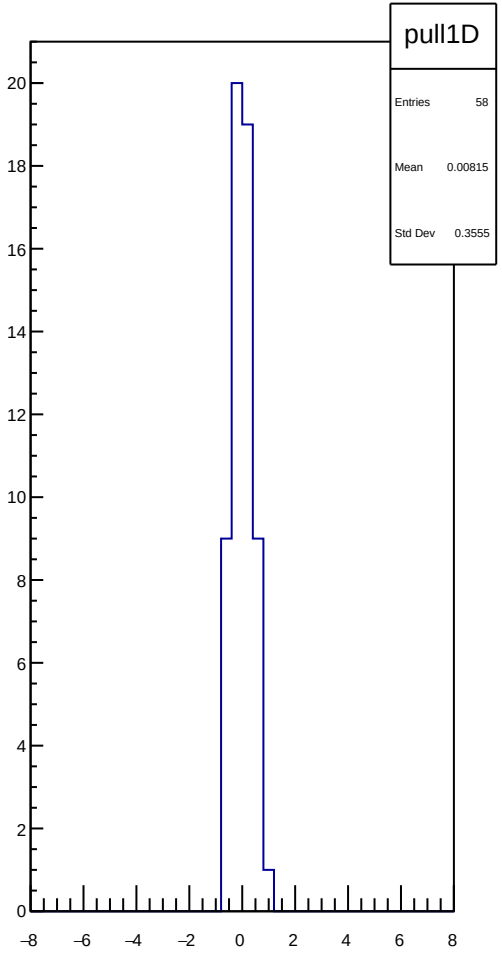

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.327 / 57
p0 11.08 ± 0.8466
pull
Entries 58
Mean 771.5
Std Dev 748.9

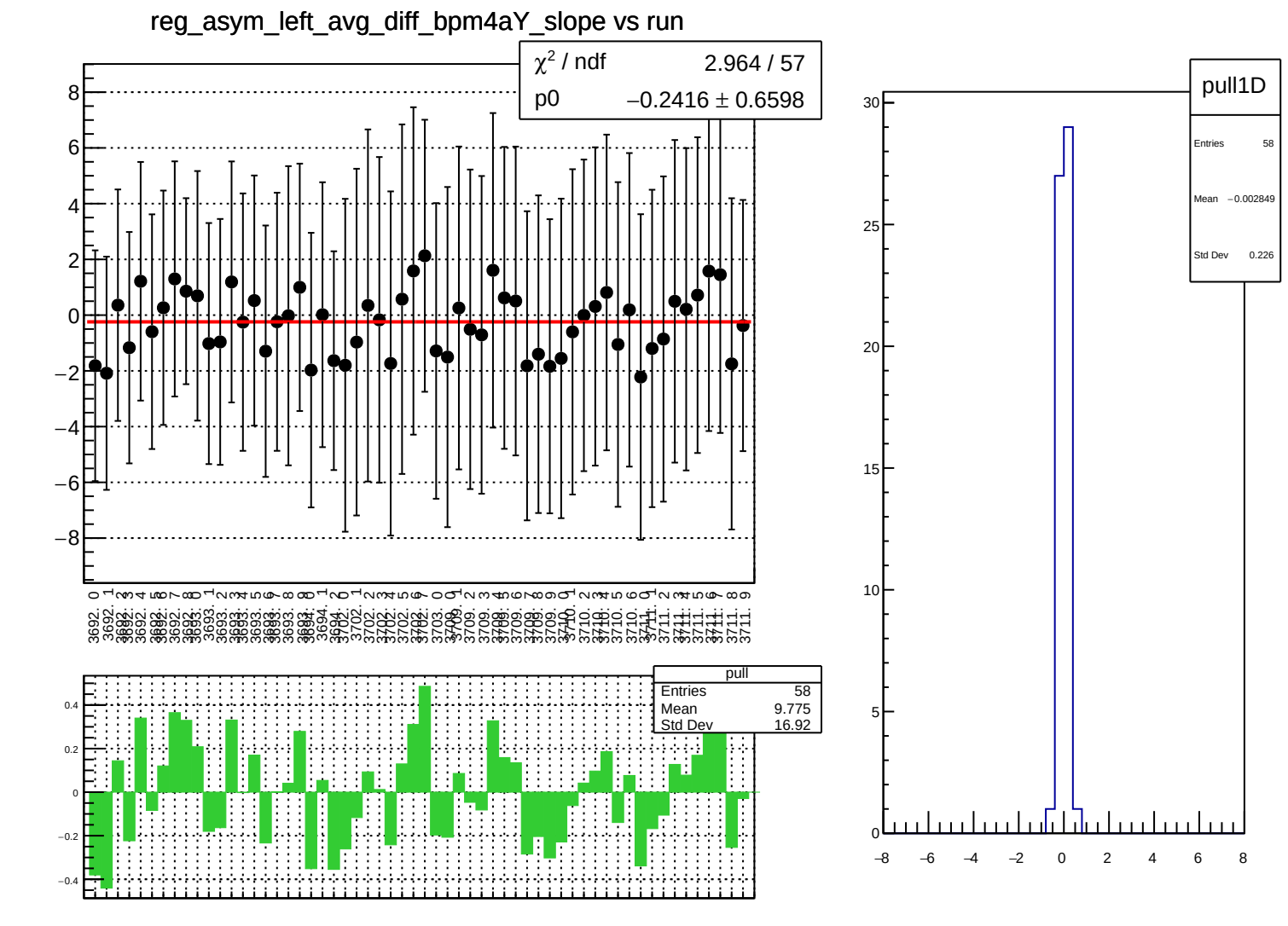

pull1D
Entries 58
Mean −0.001433
Std Dev 0.2003

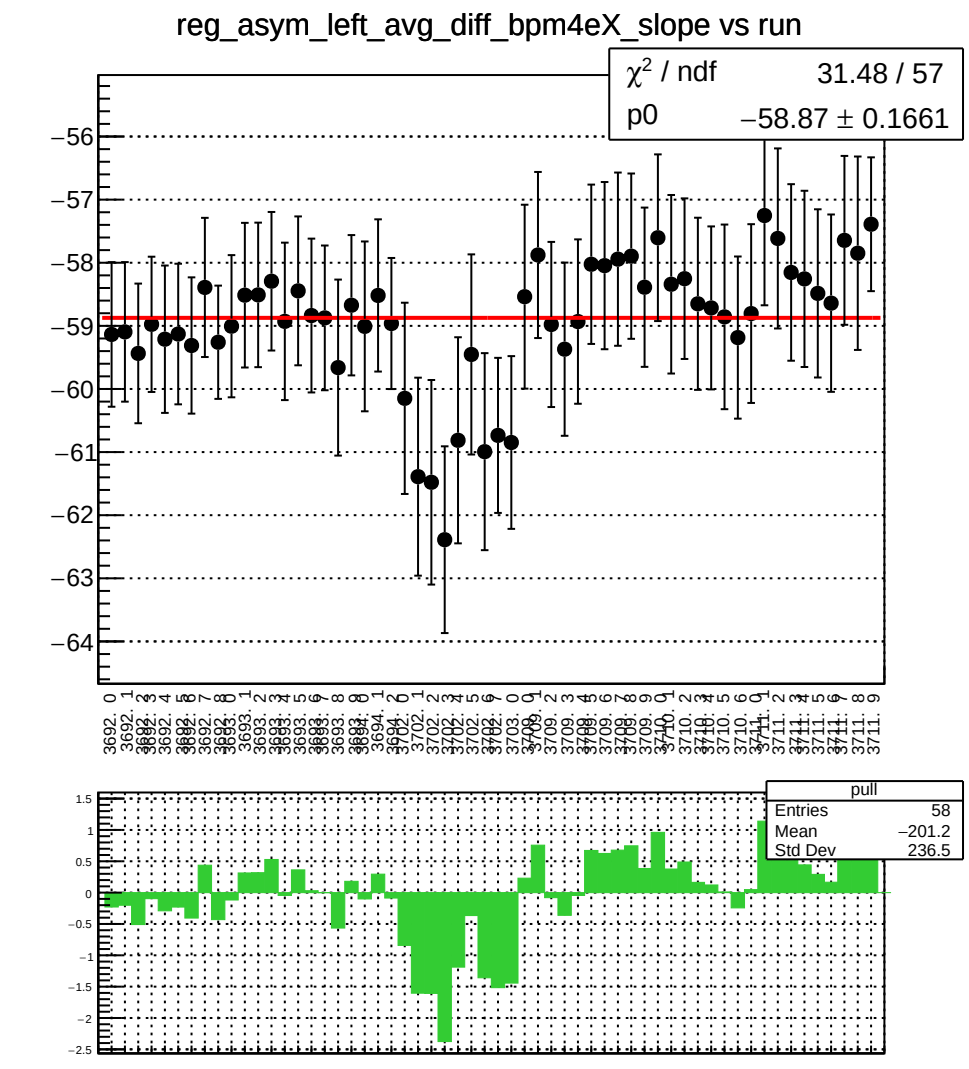

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 4.658 / 57
p0 4.182 ± 0.1038
pull
Entries 58
Mean −29.59
Std Dev 48.11

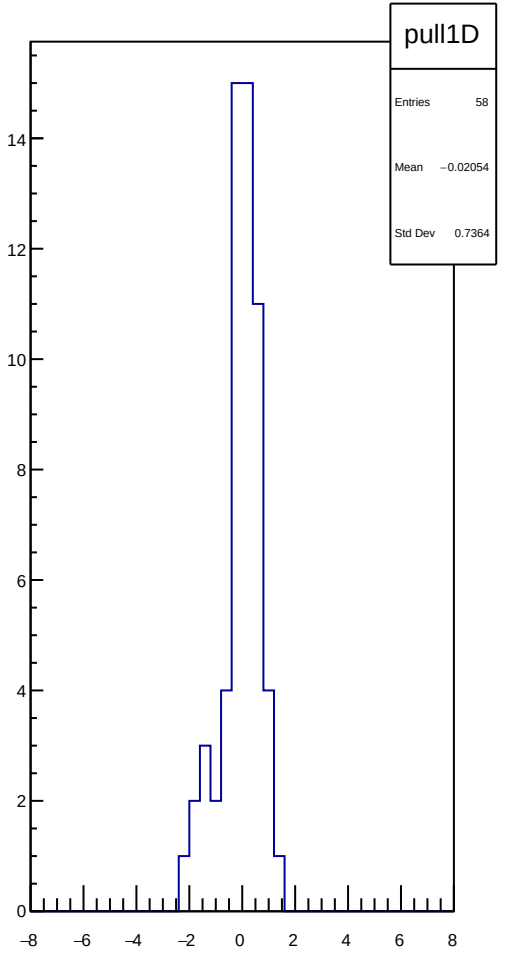

pull1D
Entries 58
Mean 0.01852
Std Dev 0.2828

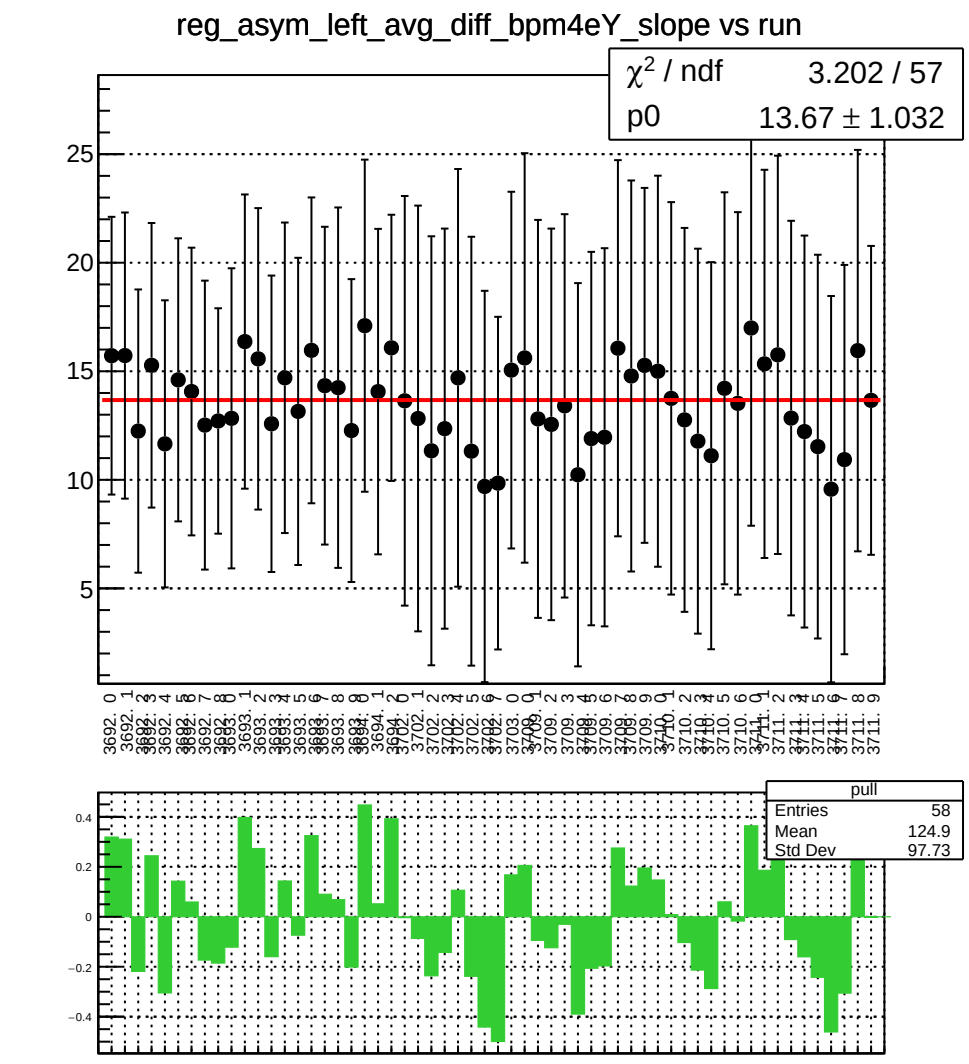

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.335 / 57
p0 14.92 ± 0.8586
pull
Entries 58
Mean 70.41
Std Dev 46

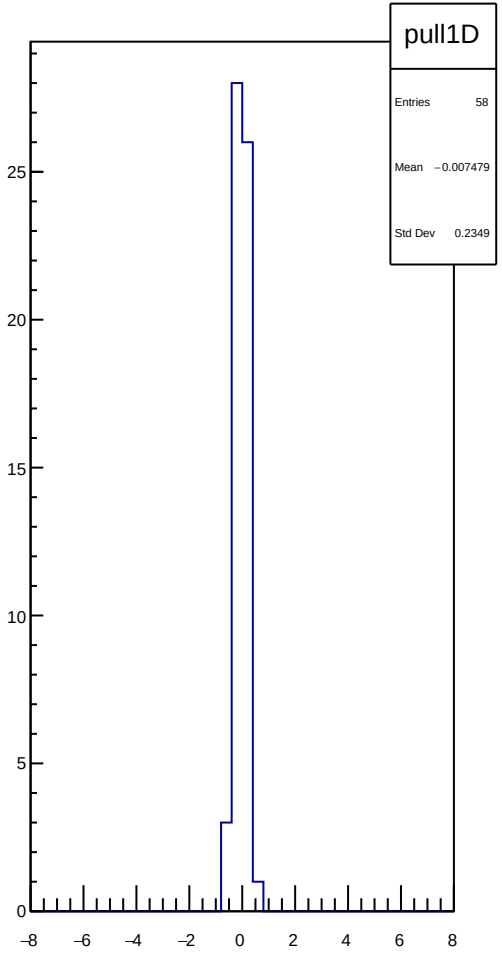

pull1D
Entries 58
Mean 0.00815
Std Dev 0.3555

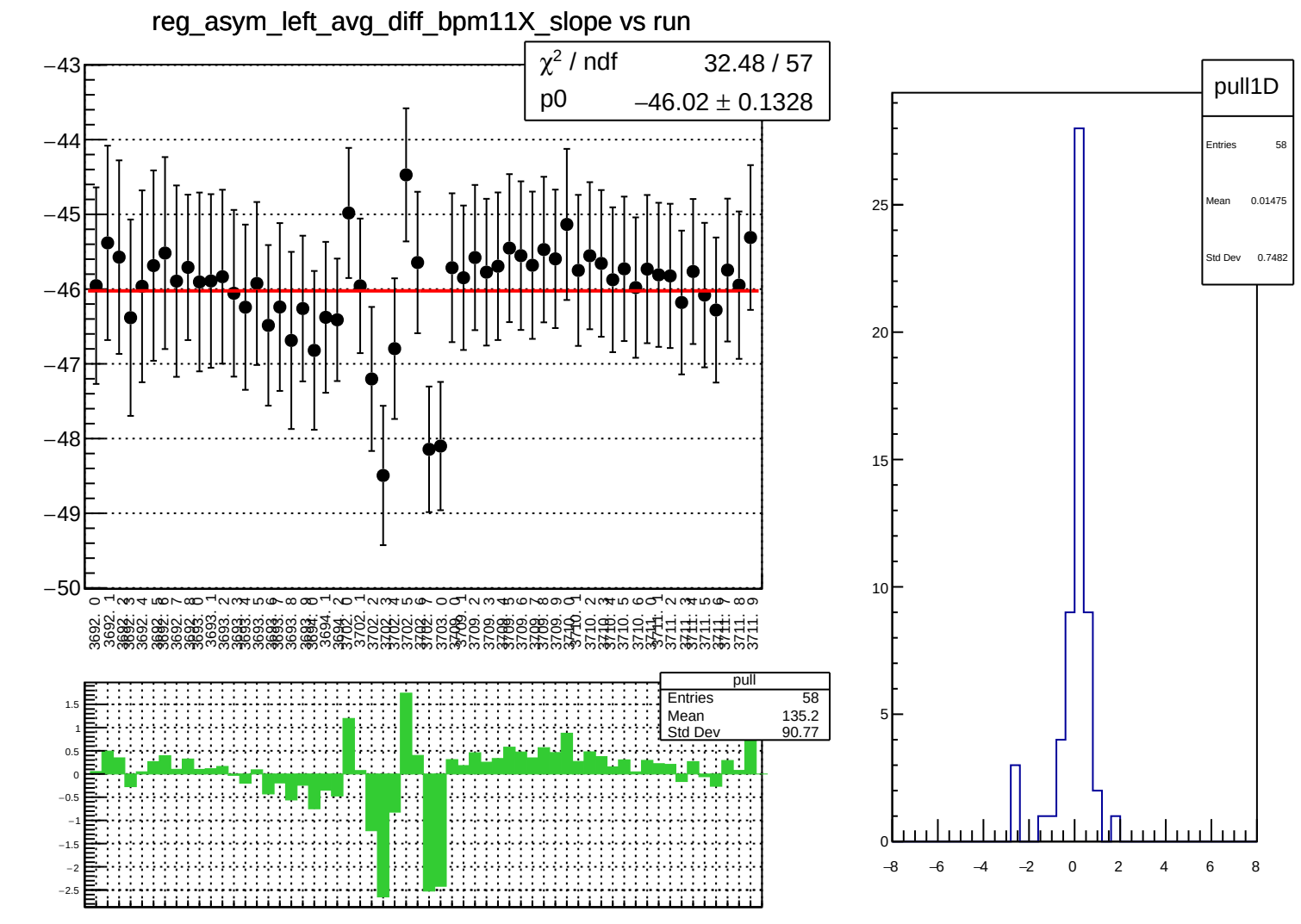

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.964 / 57
p0 −0.2416 ± 0.6598
pull
Entries 58
Mean 9.775
Std Dev 16.92
pull1D
Entries 58
Mean −0.002849
Std Dev 0.226

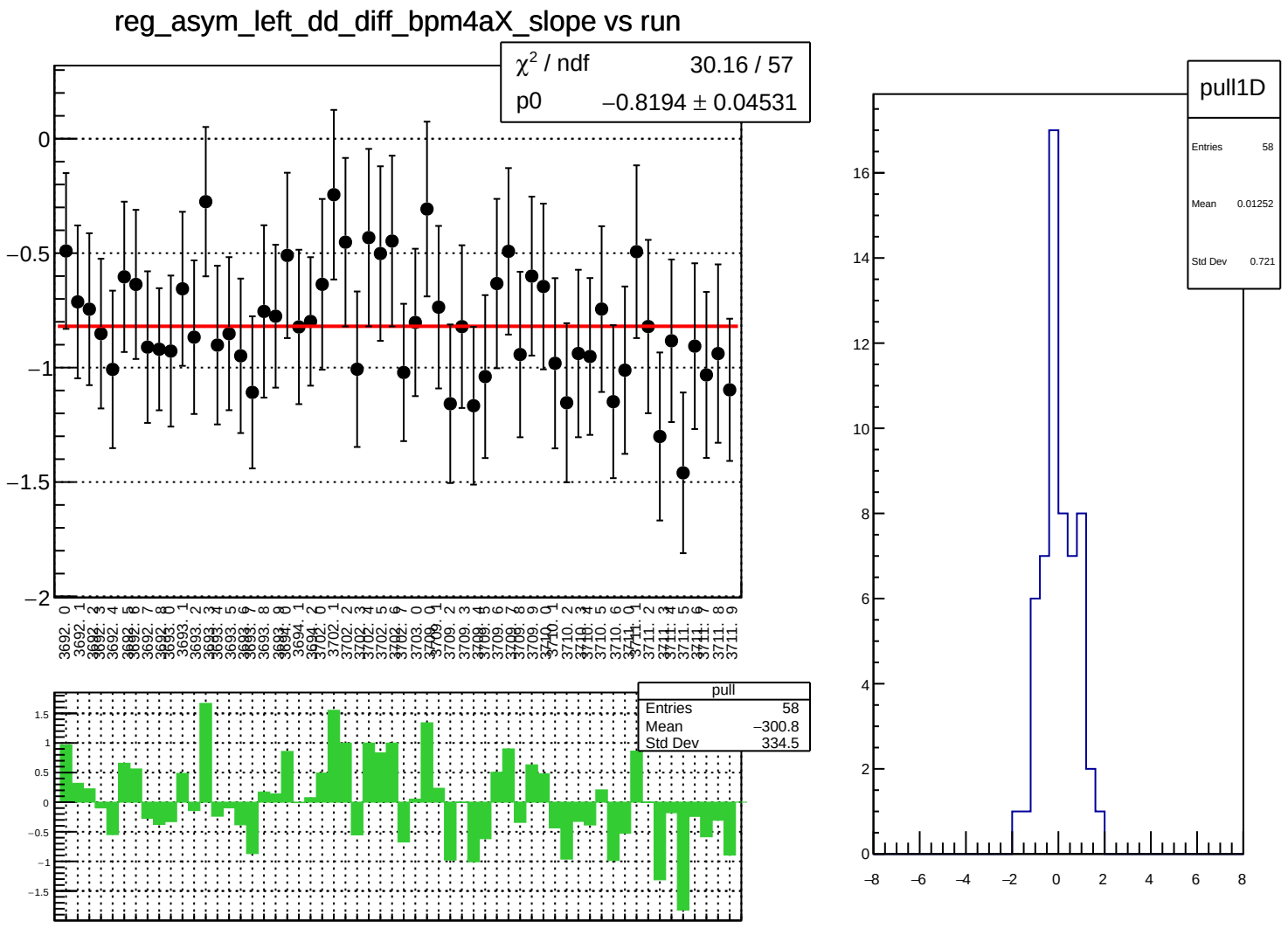

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.48 / 57
p0 −58.87 ± 0.1661
pull
Entries 58
Mean −201.2
Std Dev 236.5

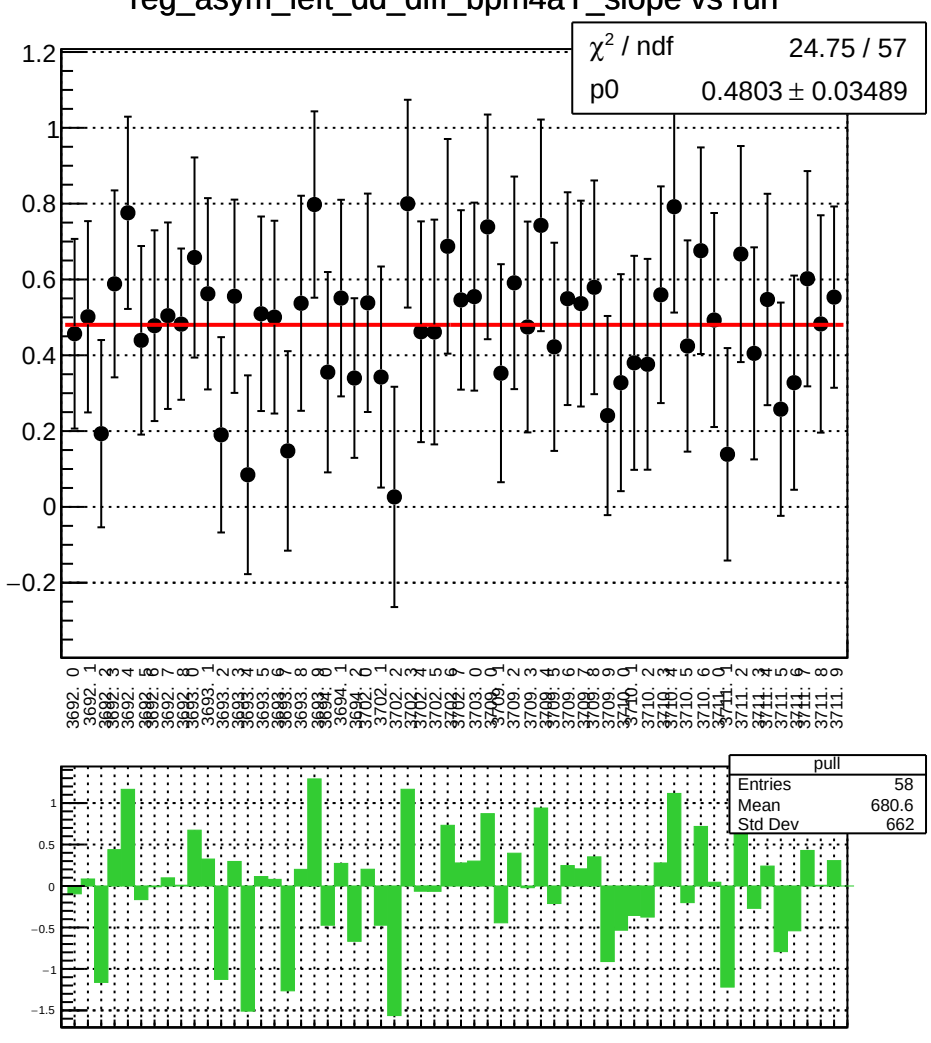

pull1D
Entries 58
Mean −0.02054
Std Dev 0.7364

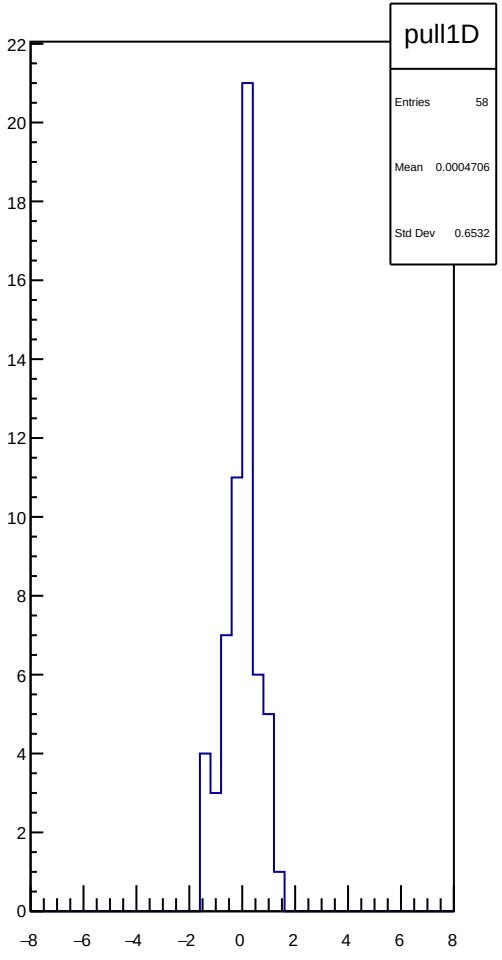

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.202 / 57
p0 13.67 ± 1.032
pull
Entries 58
Mean 124.9
Std Dev 97.73

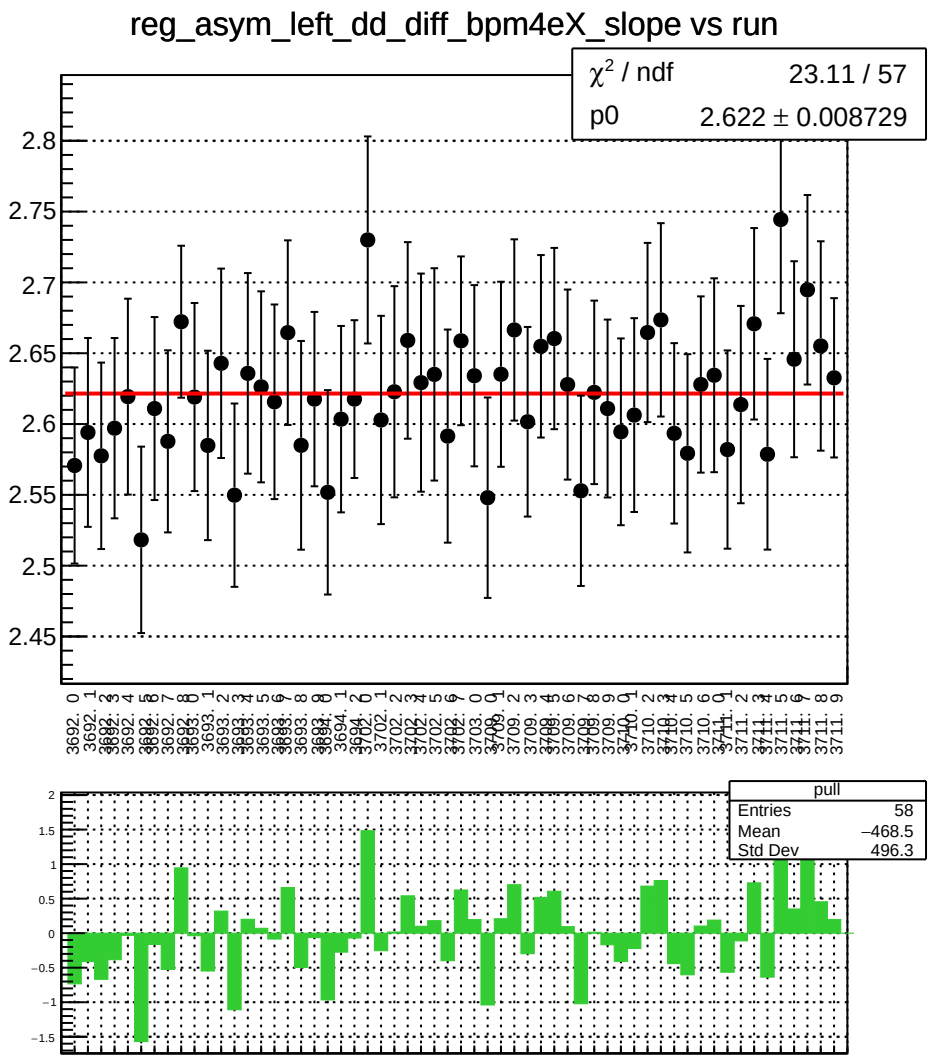

pull1D
Entries 58
Mean −0.007479
Std Dev 0.2349

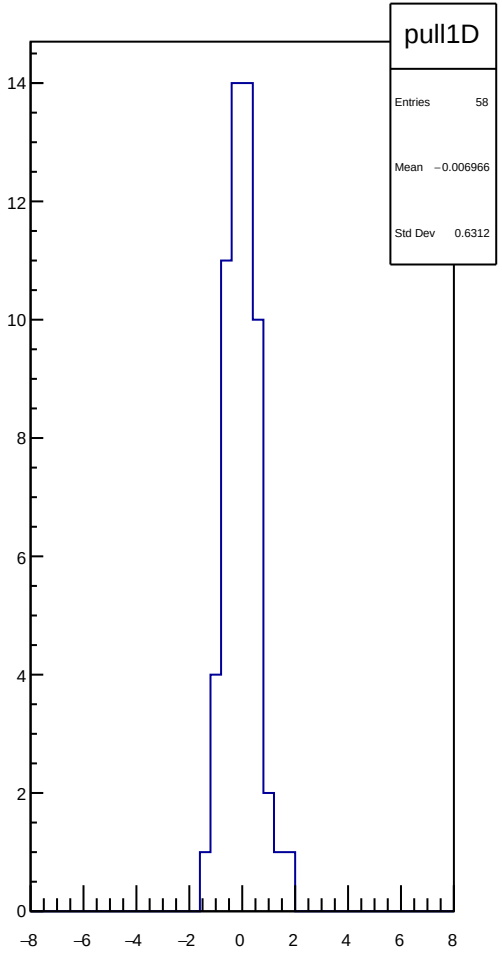

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 32.48 / 57
p0 −46.02 ± 0.1328
pull
Entries 58
Mean 135.2
Std Dev 90.77
pull1D
Entries 58
Mean 0.01475
Std Dev 0.7482

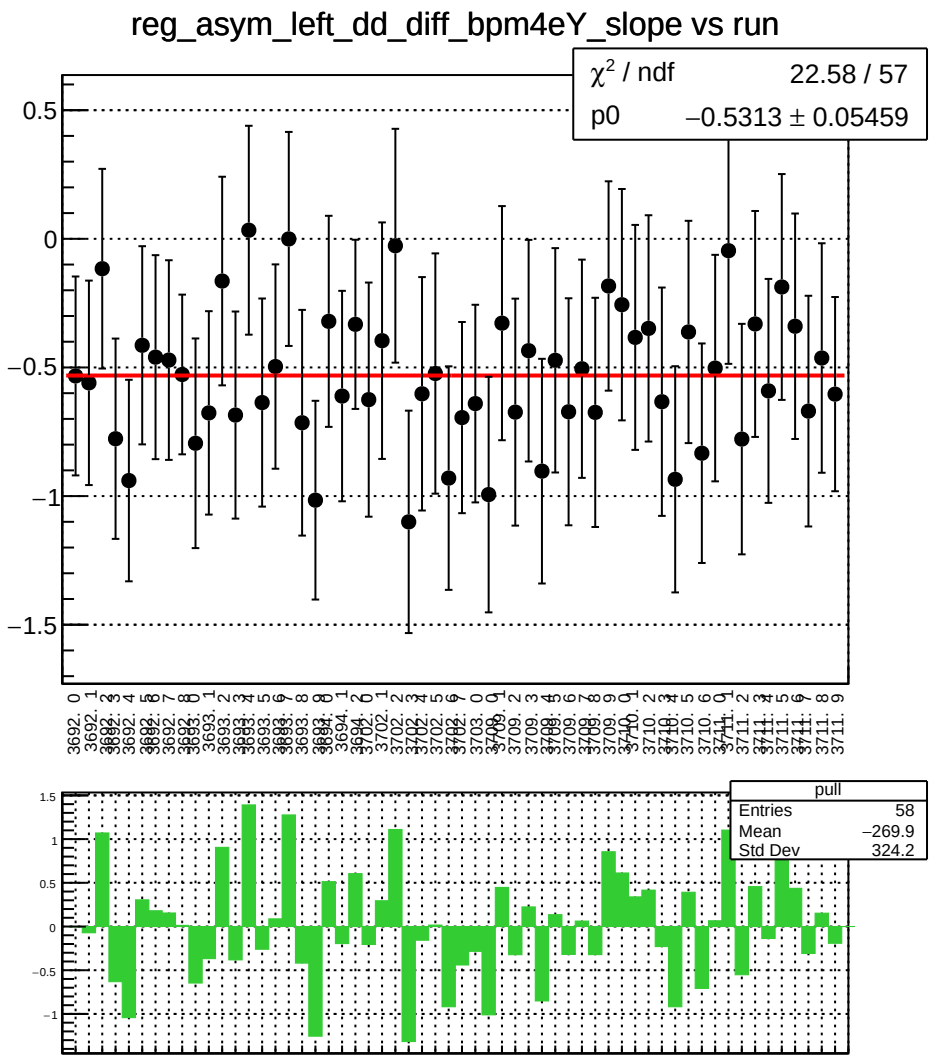

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 30.16 / 57
p0 −0.8194 ± 0.04531
pull
Entries 58
Mean −300.8
Std Dev 334.5
pull1D
Entries 58
Mean 0.01252
Std Dev 0.721

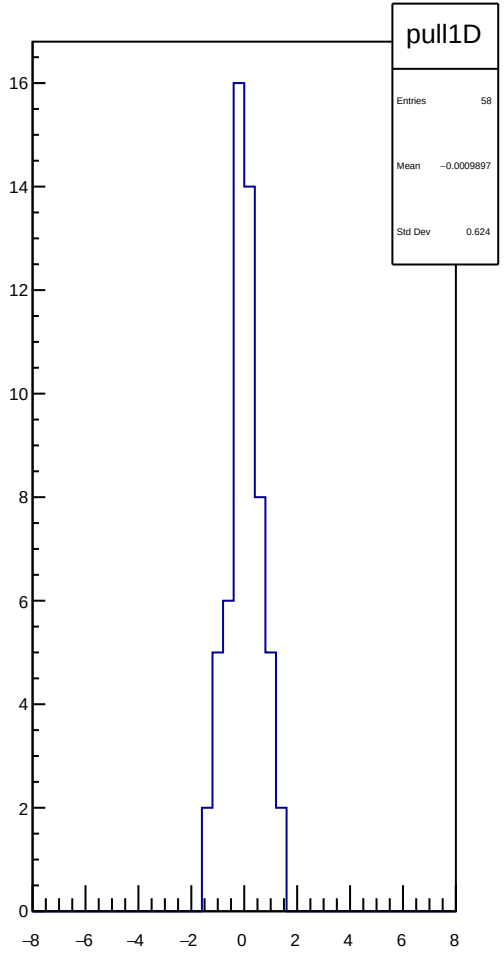

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.75 / 57
p0 0.4803 ± 0.03489
pull
Entries 58
Mean 680.6
Std Dev 662

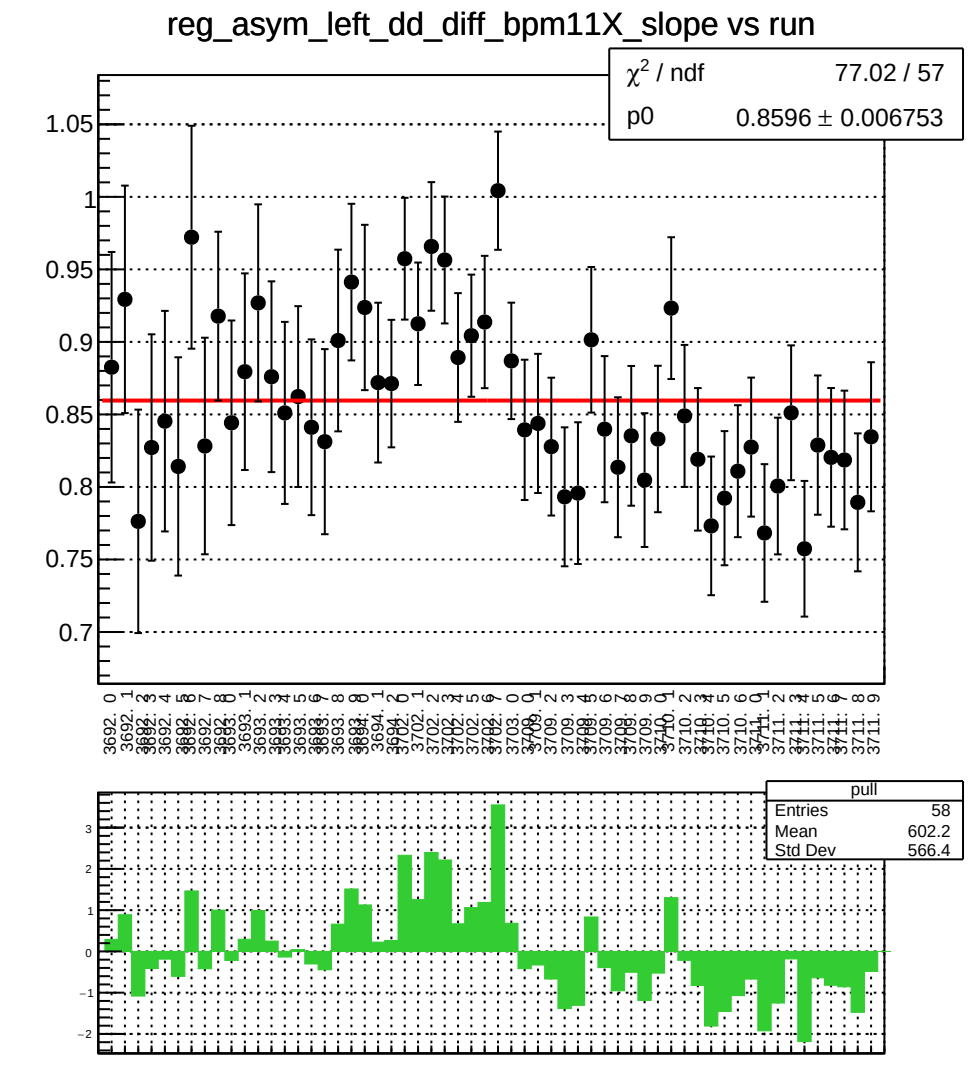

pull1D
Entries 58
Mean 0.0004706
Std Dev 0.6532

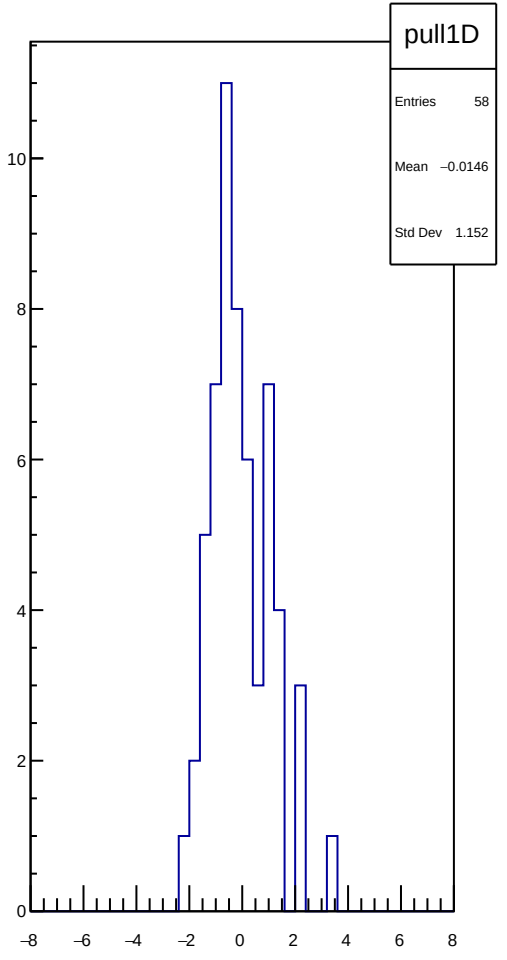

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.11 / 57
p0 2.622 ± 0.008729
pull
Entries 58
Mean −468.5
Std Dev 496.3

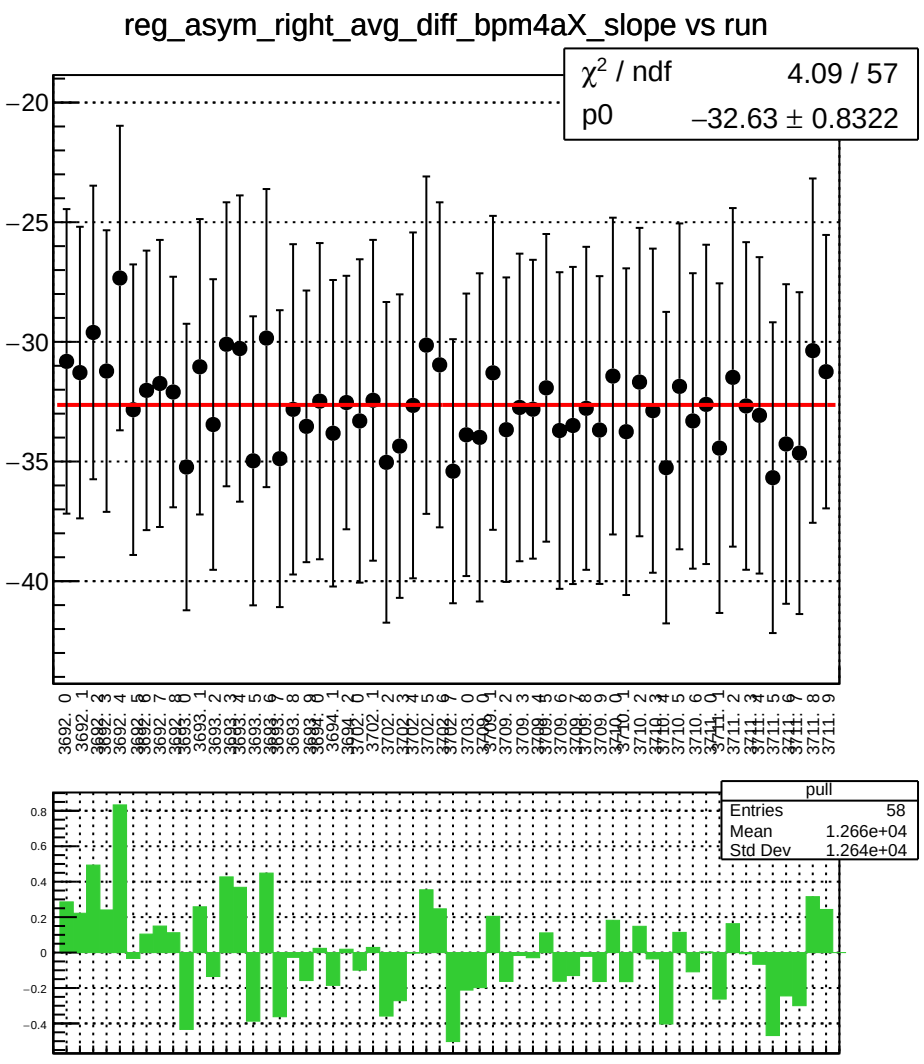

pull1D
Entries 58
Mean −0.006966
Std Dev 0.6312

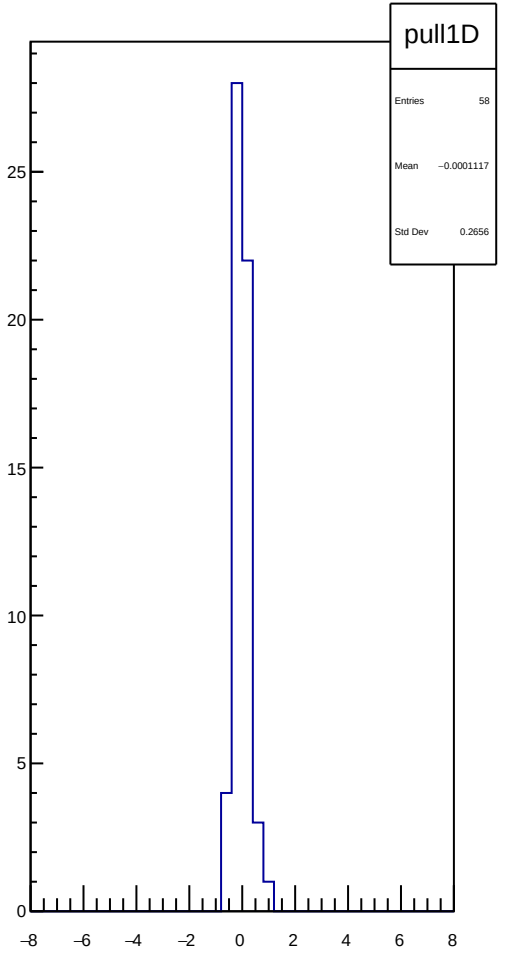

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.58 / 57
p0 −0.5313 ± 0.05459
pull
Entries 58
Mean −269.9
Std Dev 324.2

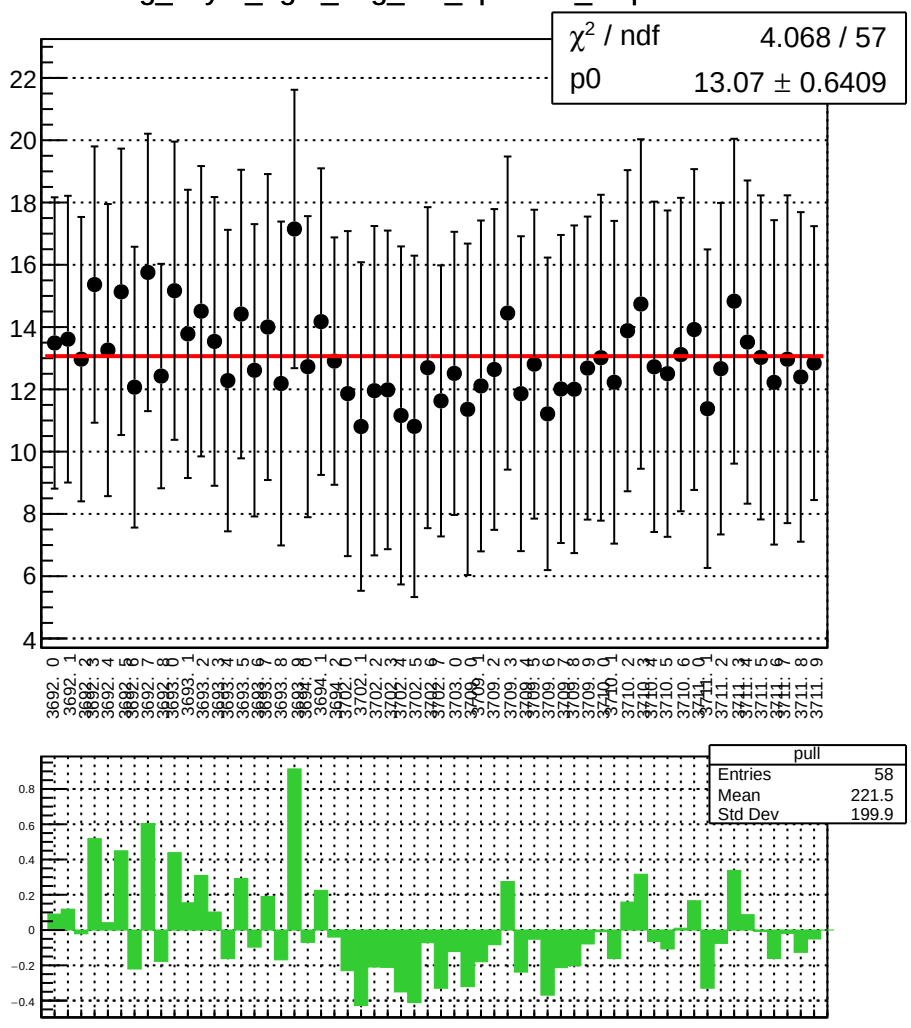

pull1D
Entries 58
Mean −0.0009897
Std Dev 0.624

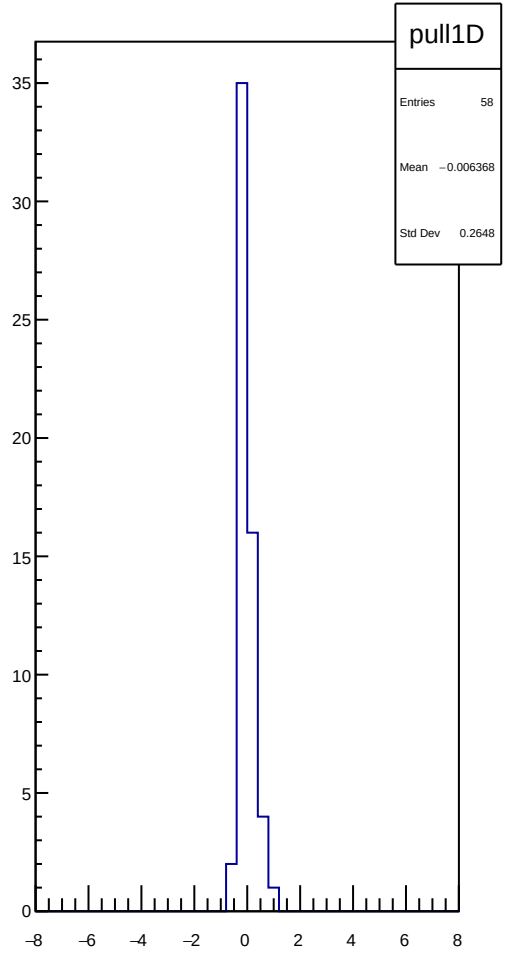

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 77.02 / 57
p0 0.8596 ± 0.006753
pull
Entries 58
Mean 602.2
Std Dev 566.4

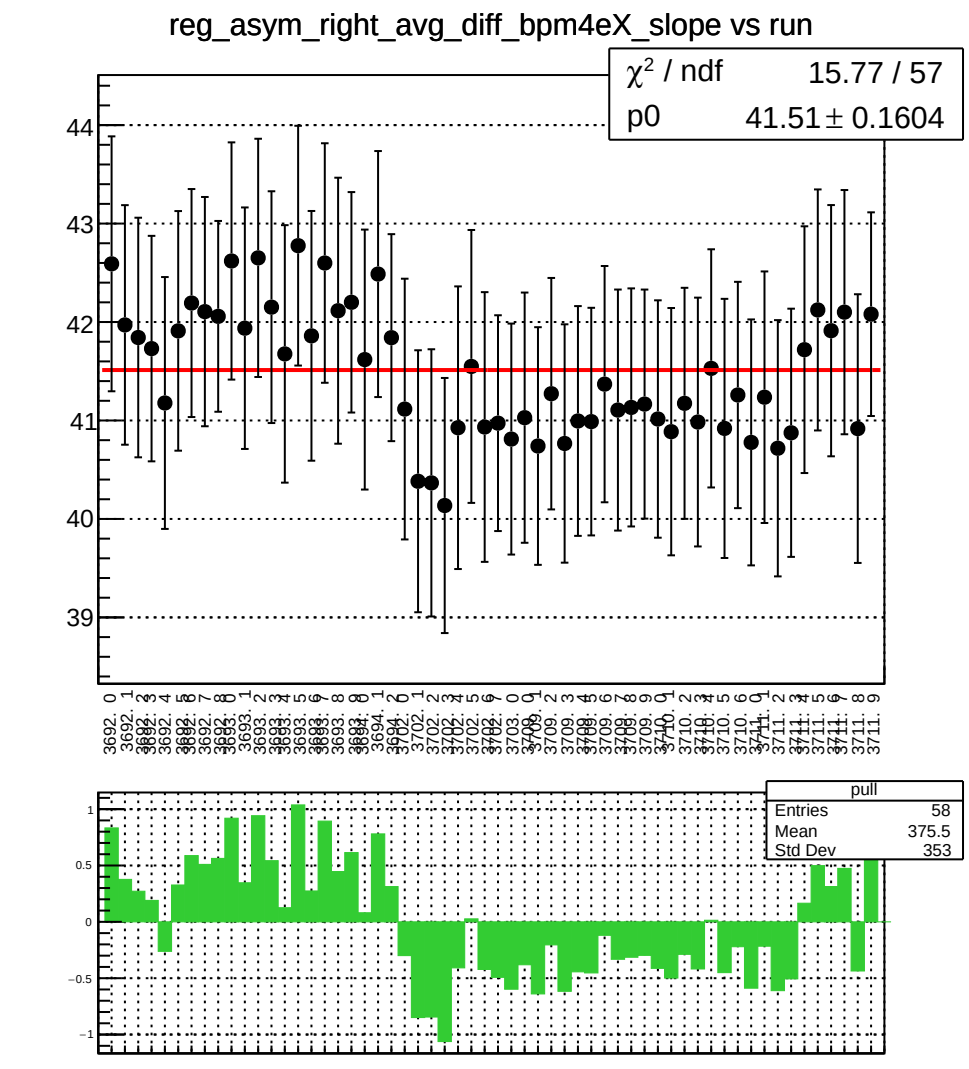

pull1D
Entries 58
Mean −0.0146
Std Dev 1.152

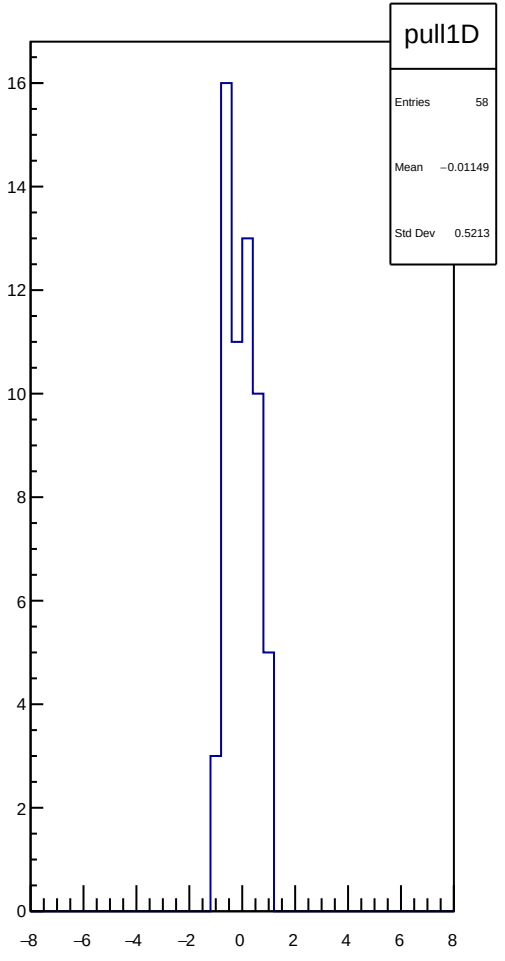

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.09 / 57
p0 −32.63 ± 0.8322
pull
Entries 58
Mean 1.266e+04
Std Dev 1.264e+04

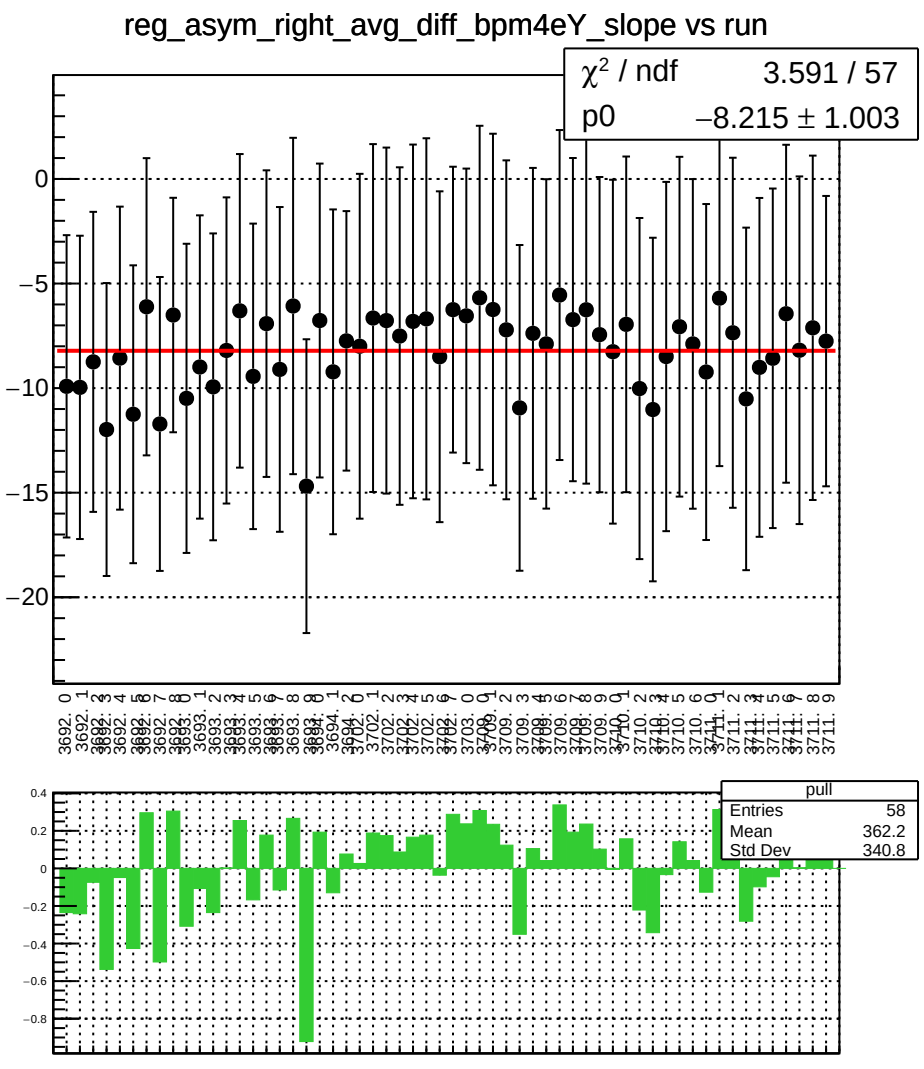

pull1D
Entries 58
Mean −0.0001117
Std Dev 0.2656

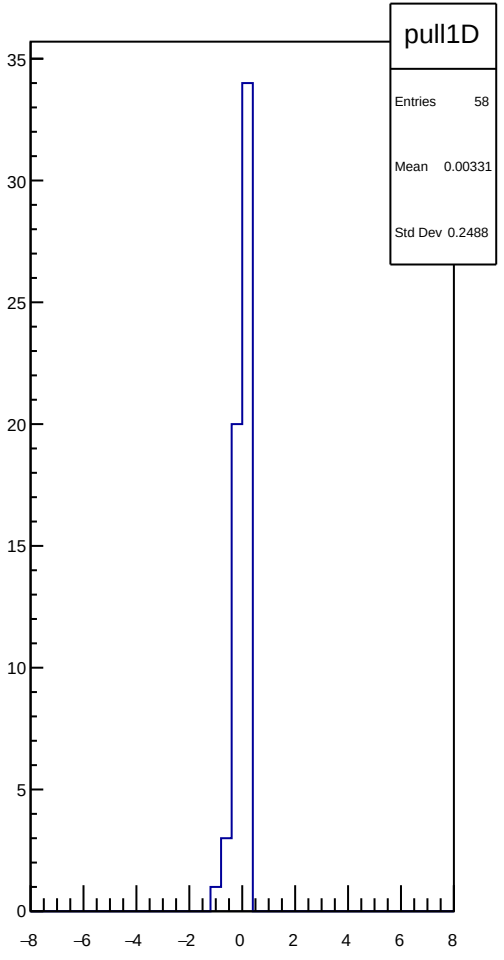

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.068 / 57
p0 13.07 ± 0.6409
pull
Entries 58
Mean 221.5
Std Dev 199.9

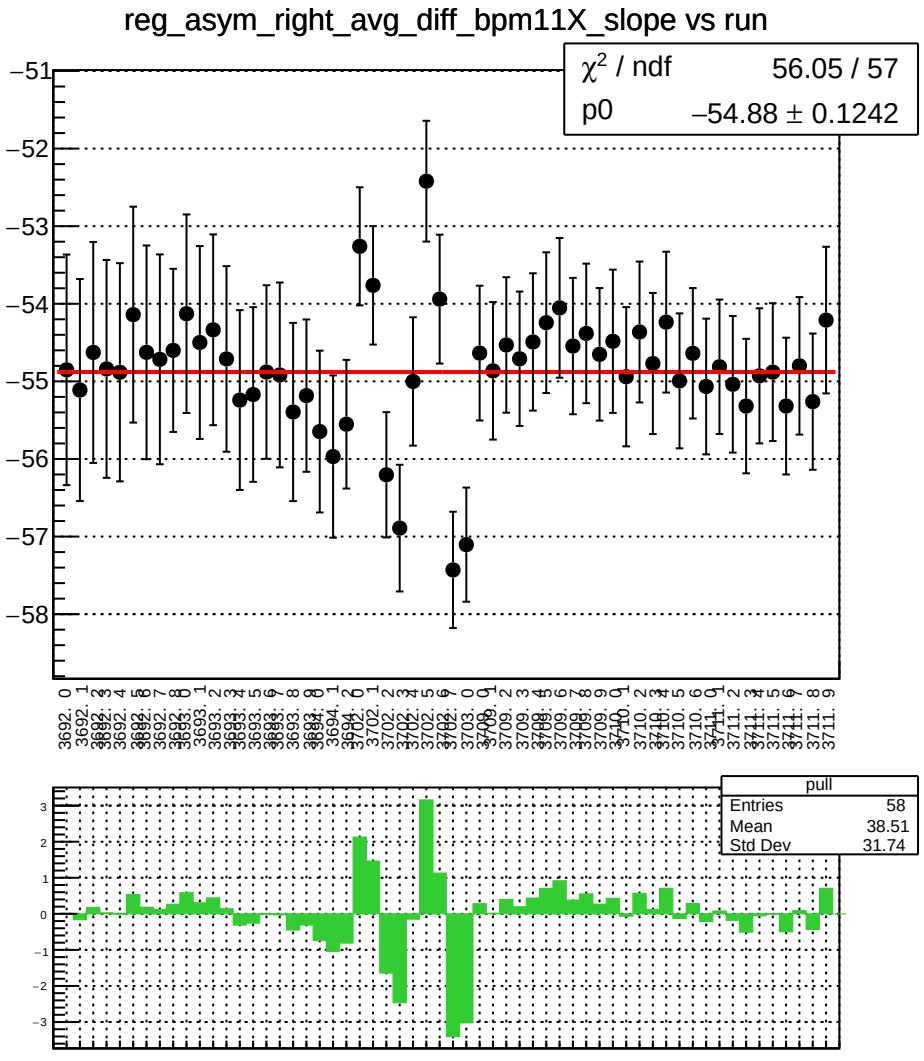

pull1D
Entries 58
Mean −0.006368
Std Dev 0.2648

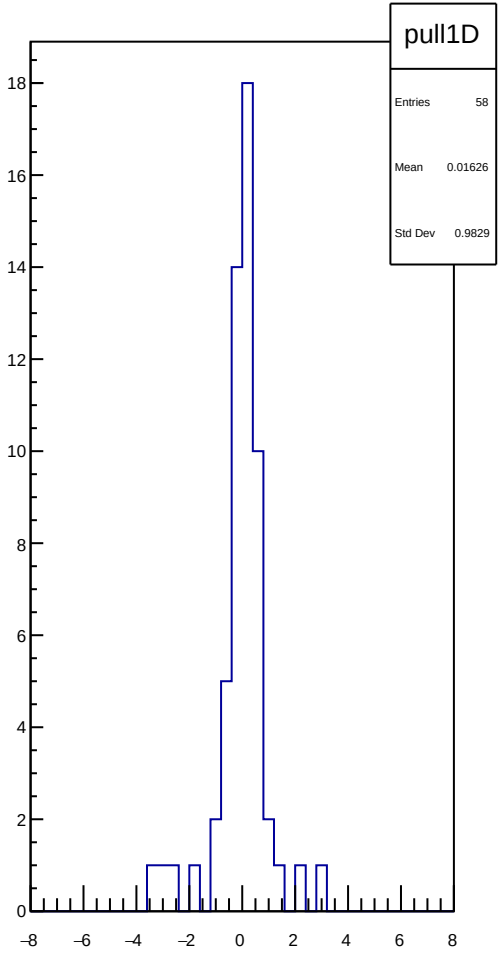

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.77 / 57
p0 41.51 ± 0.1604
pull
Entries 58
Mean 375.5
Std Dev 353

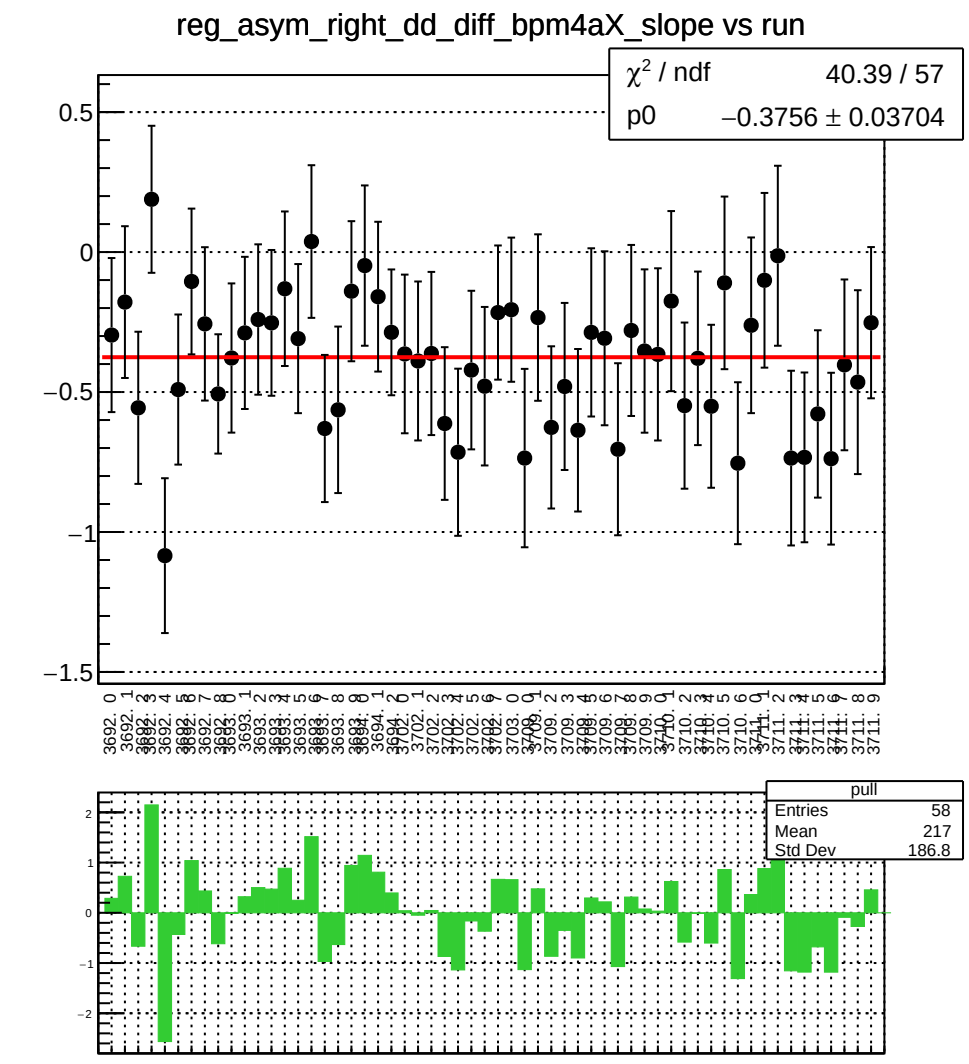

pull1D
Entries 58
Mean −0.01149
Std Dev 0.5213

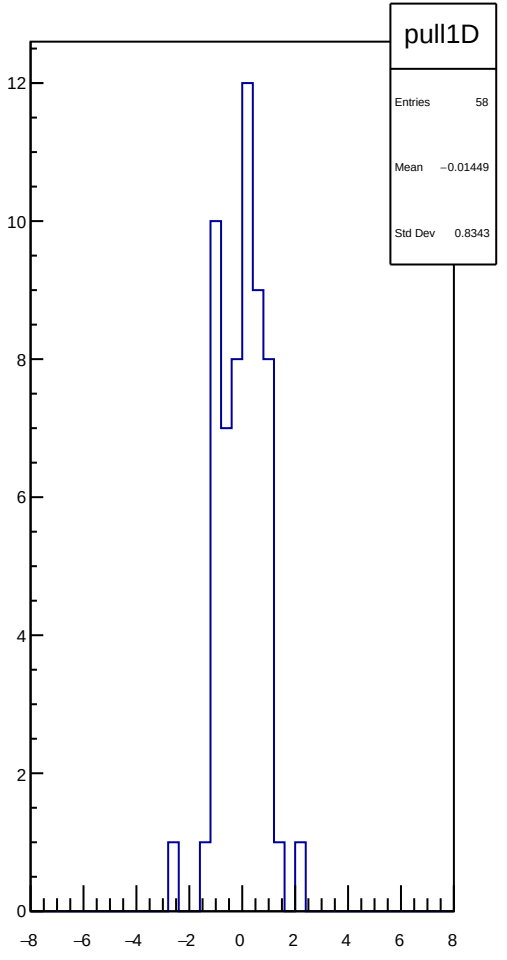

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.591 / 57
p0 −8.215 ± 1.003
pull
Entries 58
Mean 362.2
Std Dev 340.8

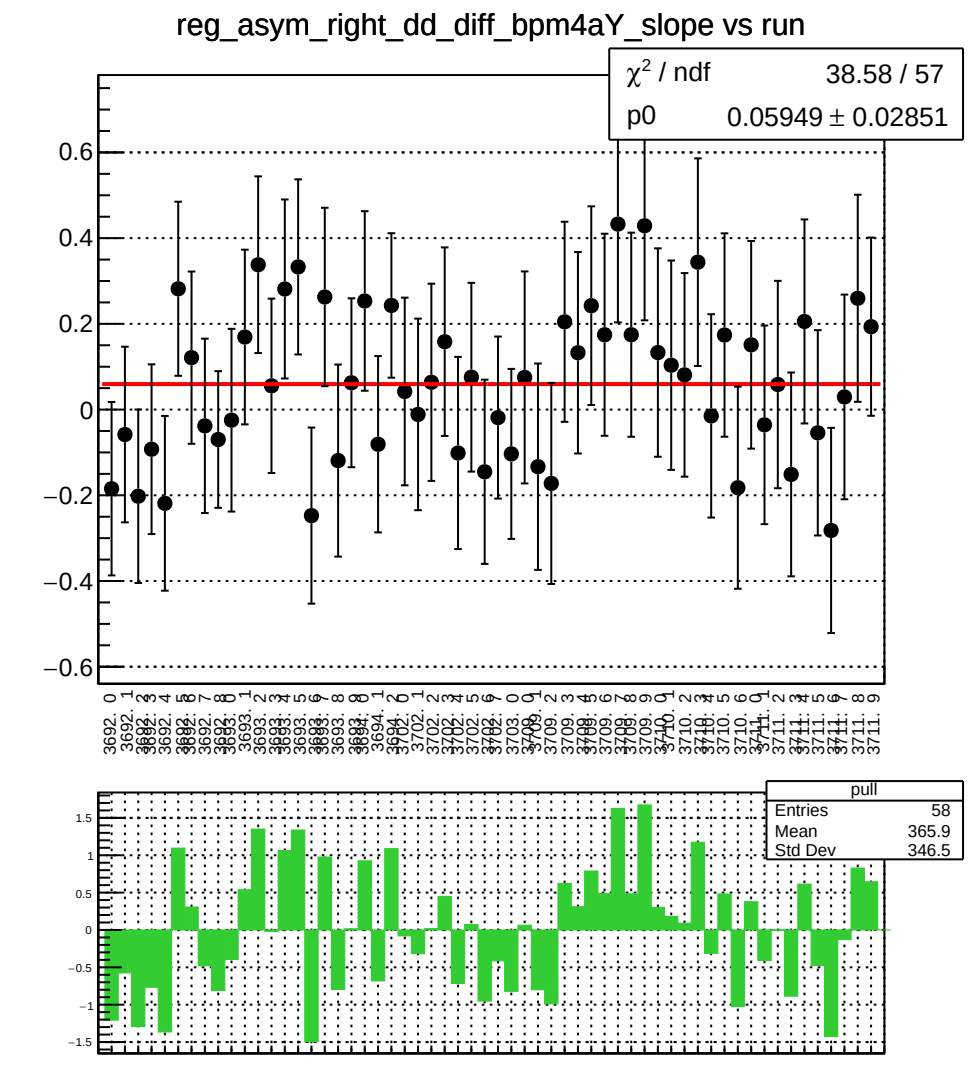

pull1D
Entries 58
Mean 0.00331
Std Dev 0.2488

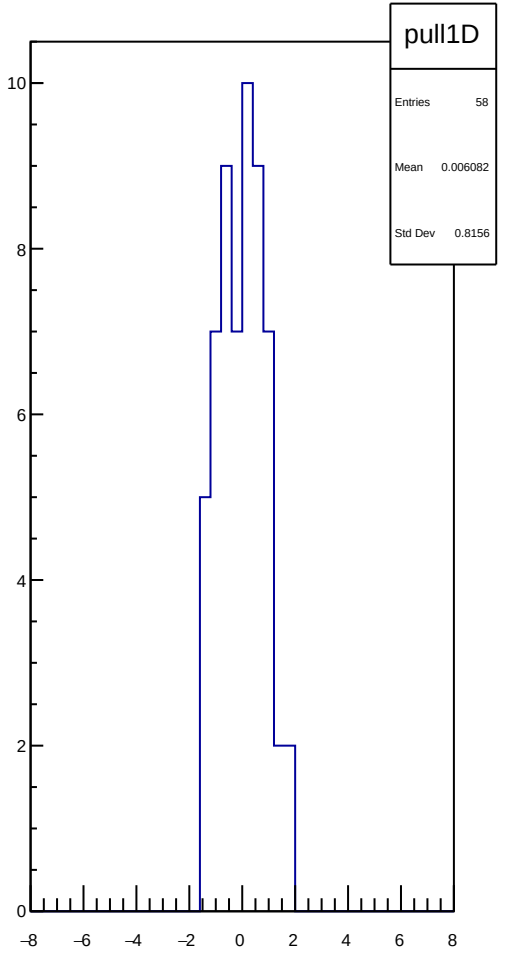

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 56.05 / 57
p0 −54.88 ± 0.1242
pull
Entries 58
Mean 38.51
Std Dev 31.74

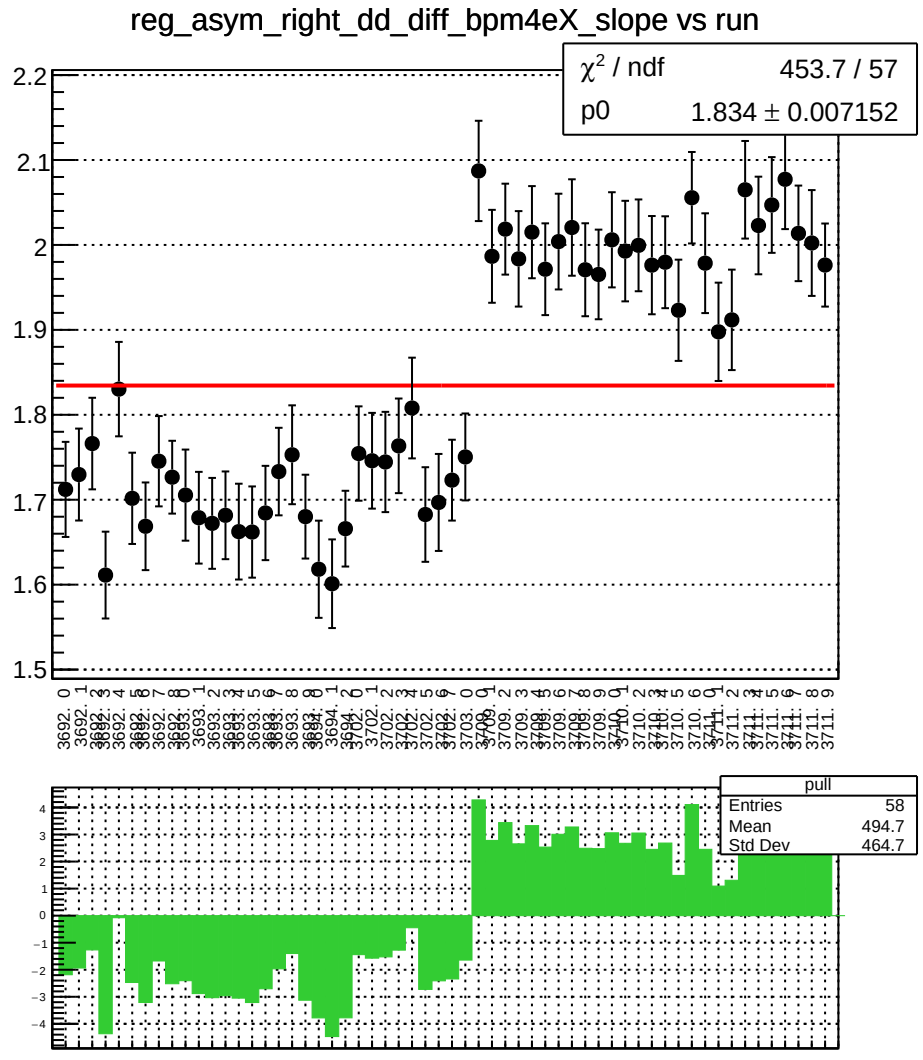

pull1D
Entries 58
Mean 0.01626
Std Dev 0.9829

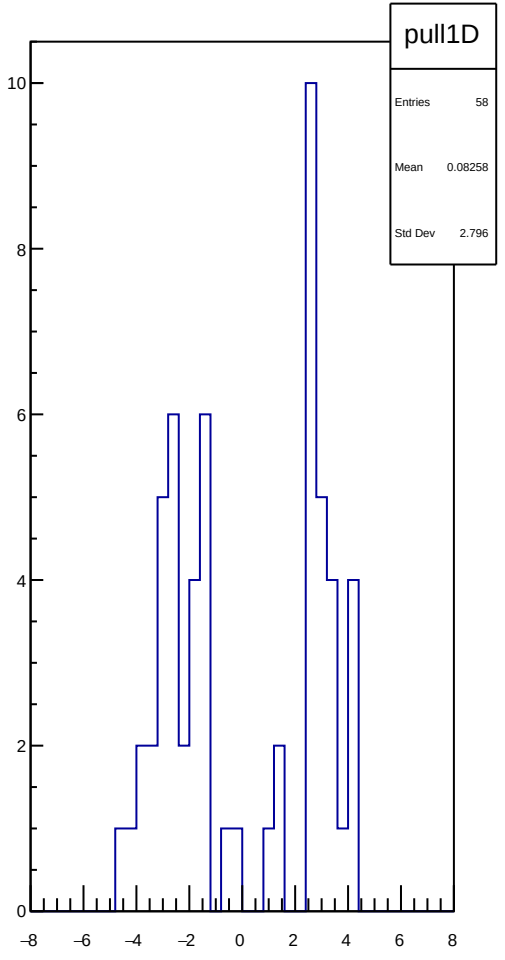

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.39 / 57
p0 −0.3756 ± 0.03704
0.5
0
−0.5
−1
−1.5
pull
Entries 58
Mean 217
Std Dev 186.8
2
1
0
−1
−2

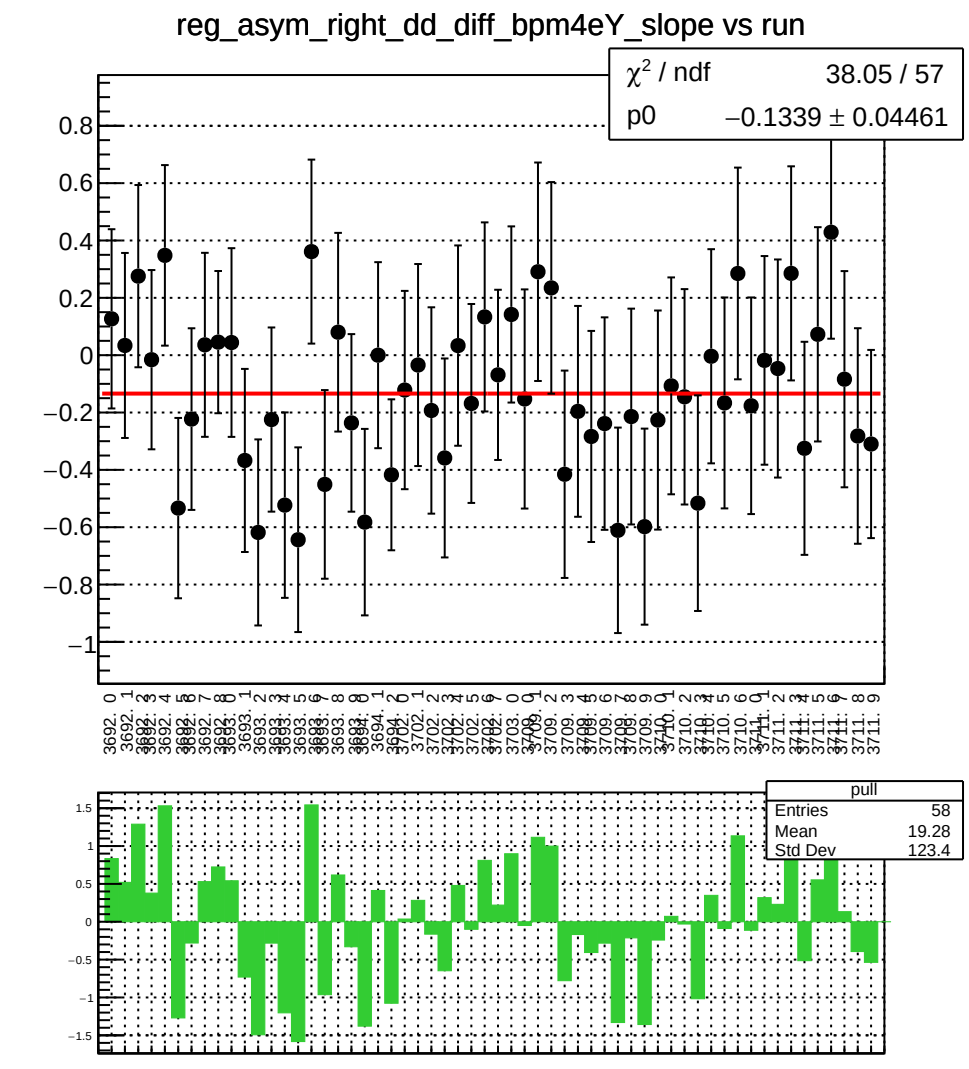

pull1D
Entries 58
Mean −0.01449
Std Dev 0.8343
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

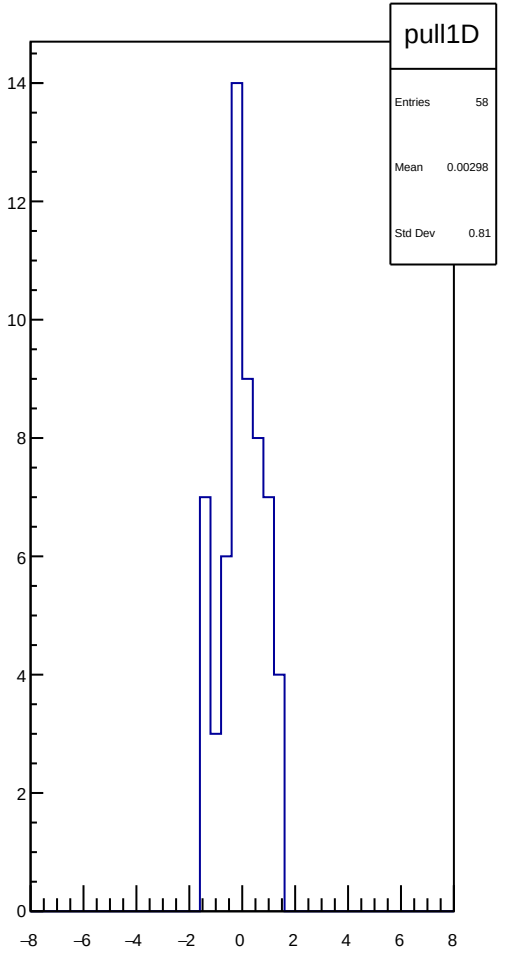

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.58 / 57
p0 0.05949 ± 0.02851
pull
Entries 58
Mean 365.9
Std Dev 346.5

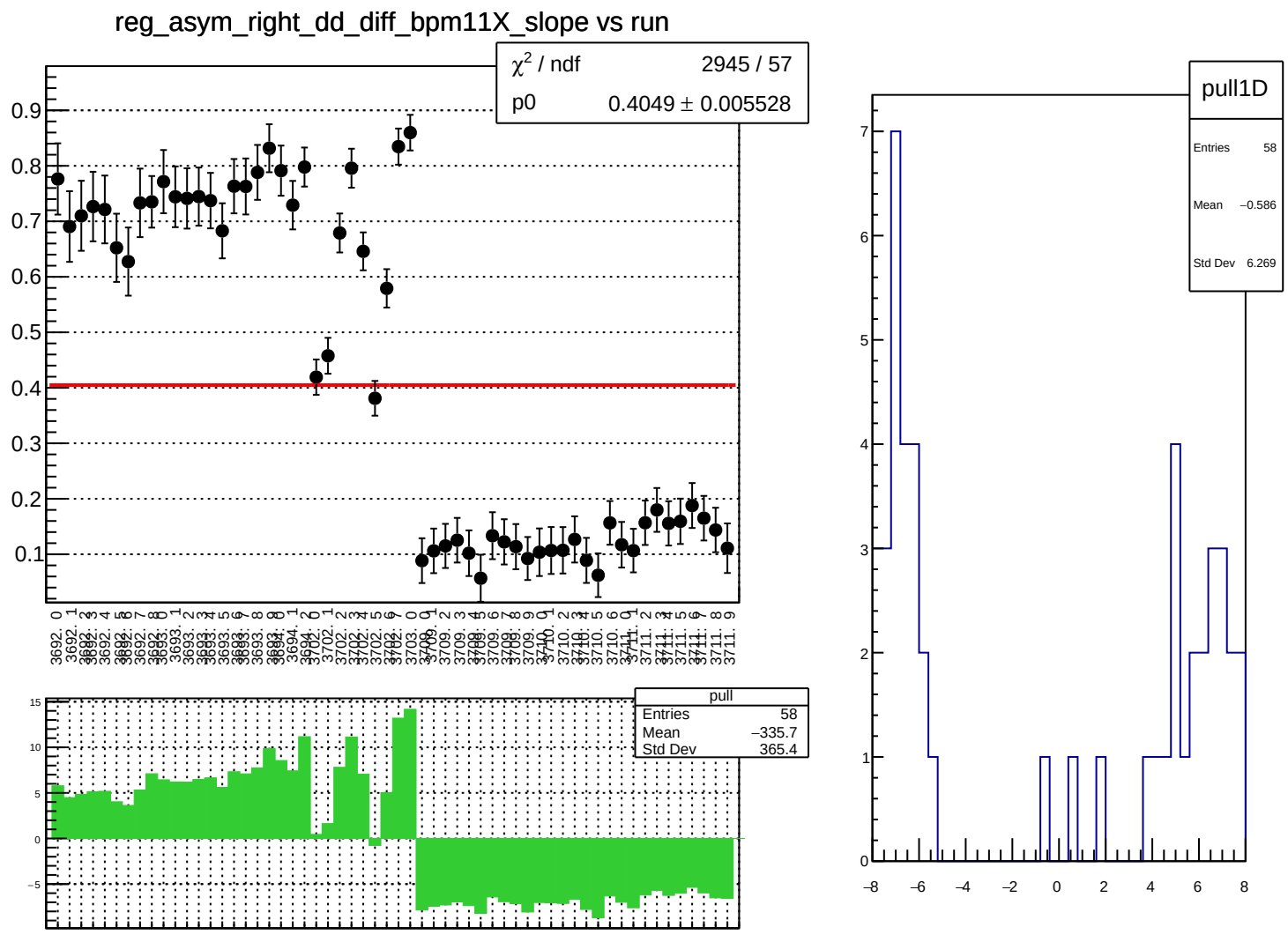

pull1D
Entries 58
Mean 0.006082
Std Dev 0.8156

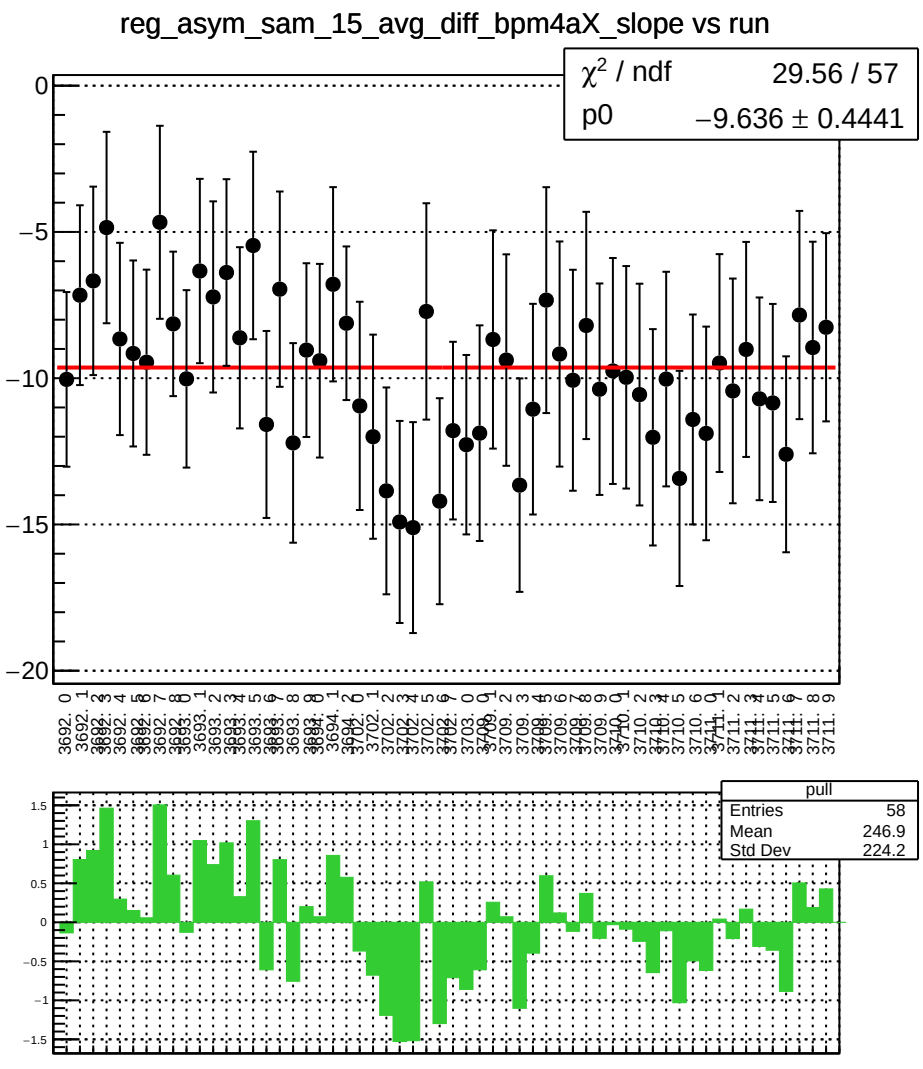

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 453.7 / 57
p0 1.834 ± 0.007152
pull
Entries 58
Mean 494.7
Std Dev 464.7

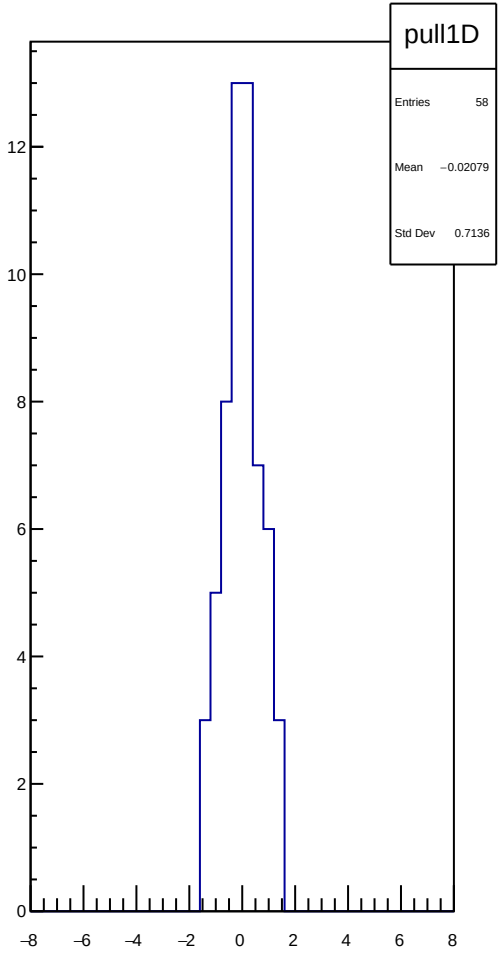

pull1D
Entries 58
Mean 0.08258
Std Dev 2.796

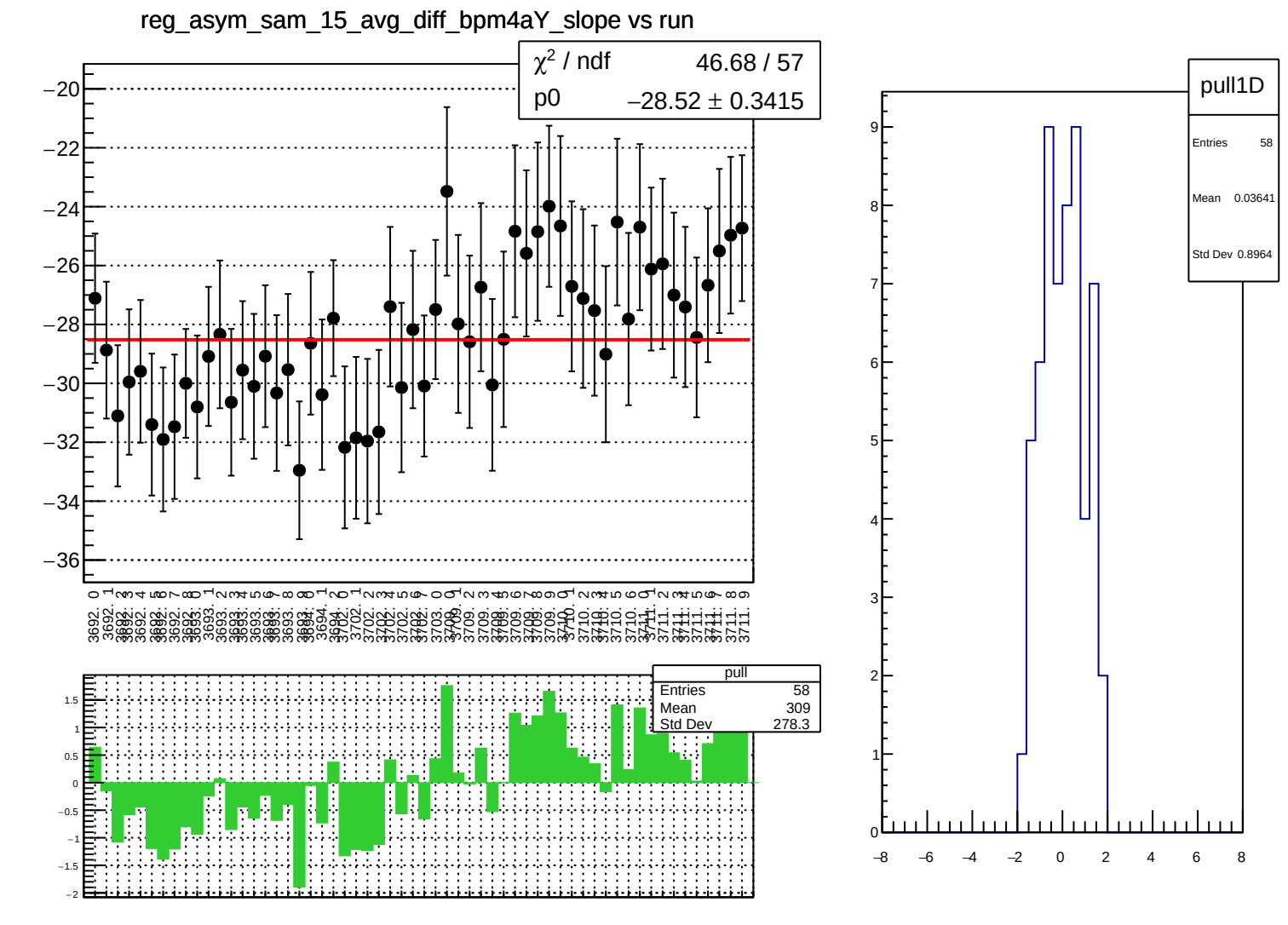

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.05 / 57
p0 −0.1339 ± 0.04461
pull
Entries 58
Mean 19.28
Std Dev 123.4

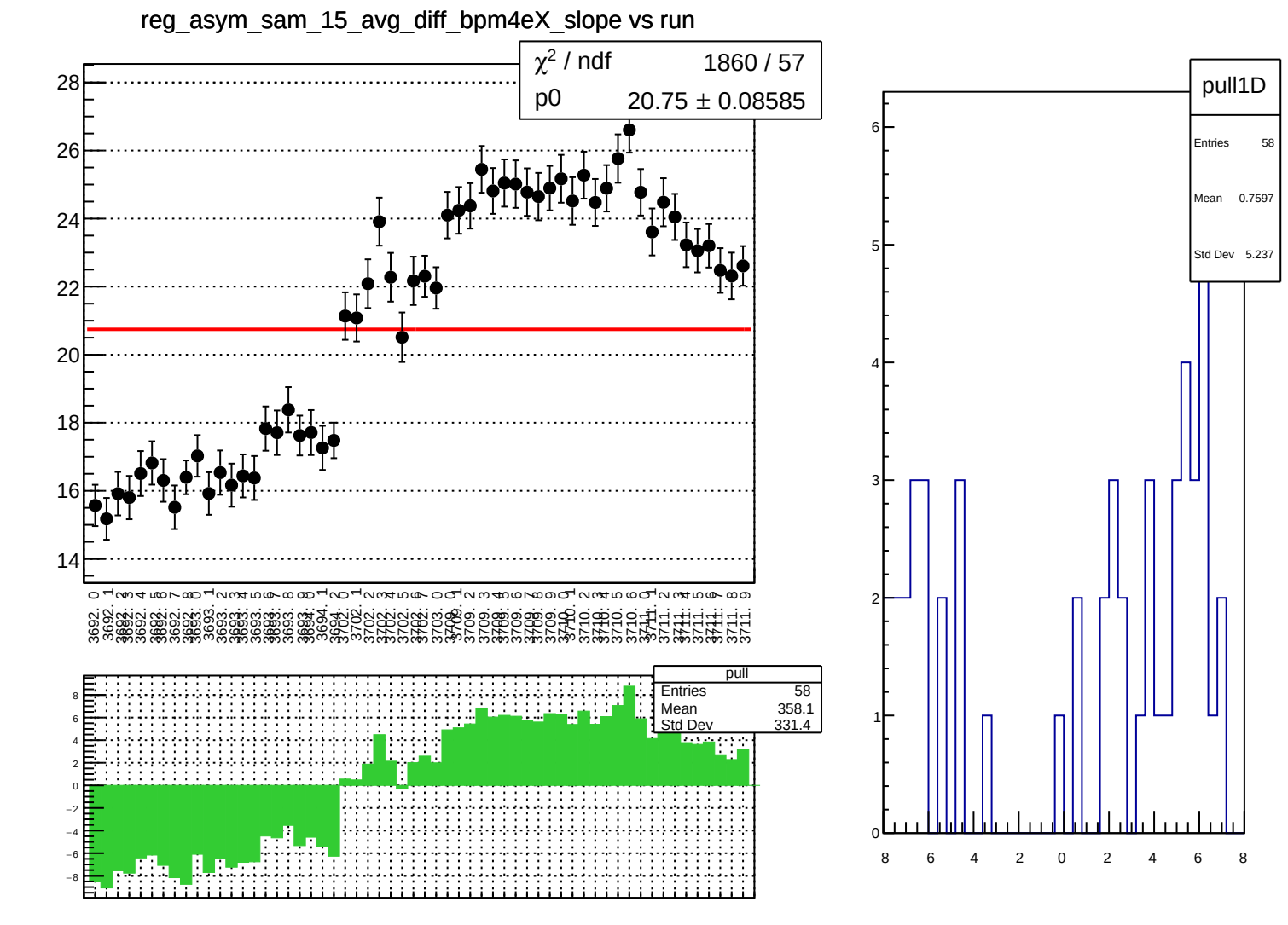

pull1D
Entries 58
Mean 0.00298
Std Dev 0.81

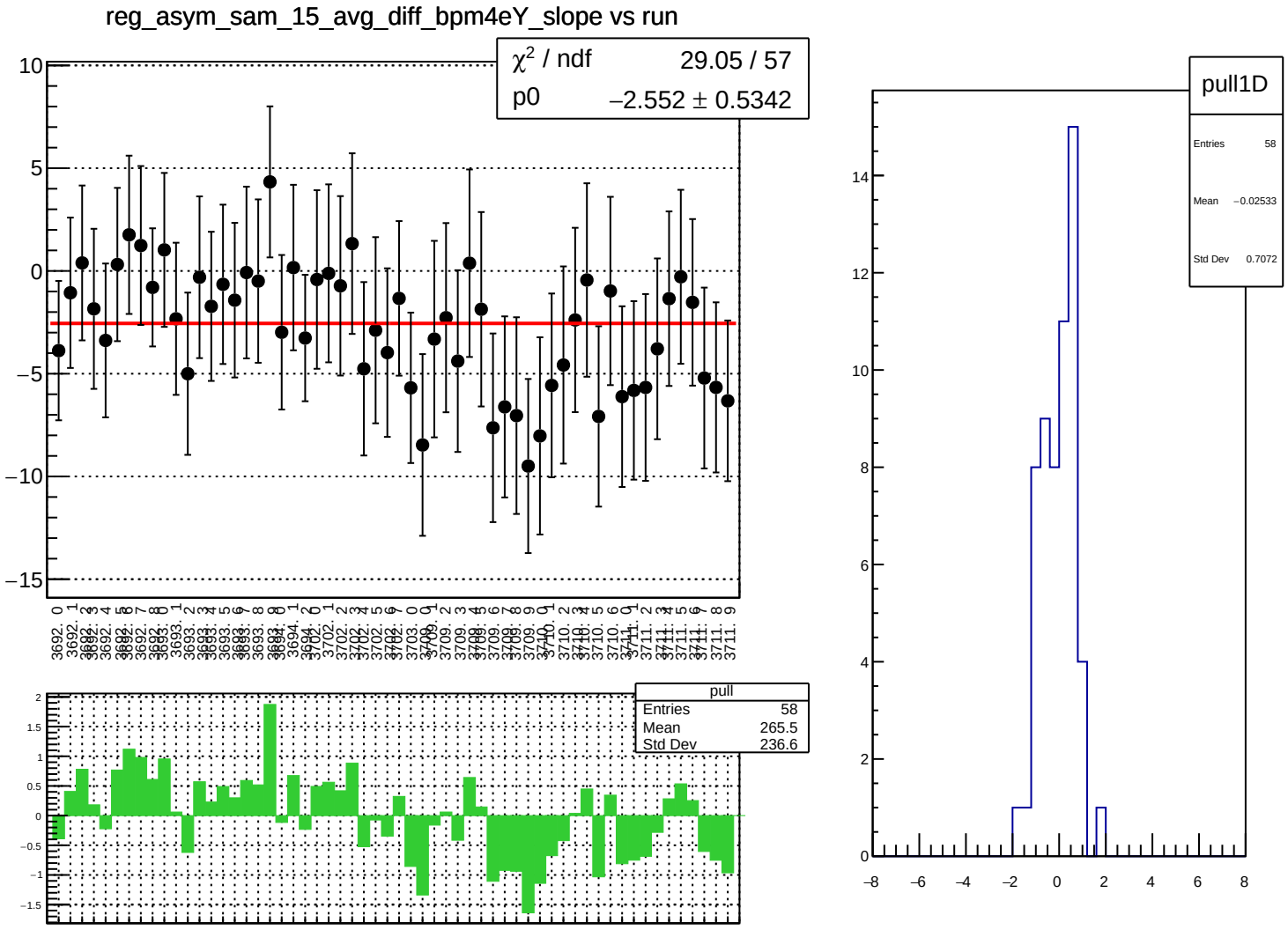

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 2945 / 57
p0 0.4049 ± 0.005528
pull
Entries 58
Mean −335.7
Std Dev 365.4
pull1D
Entries 58
Mean −0.586
Std Dev 6.269

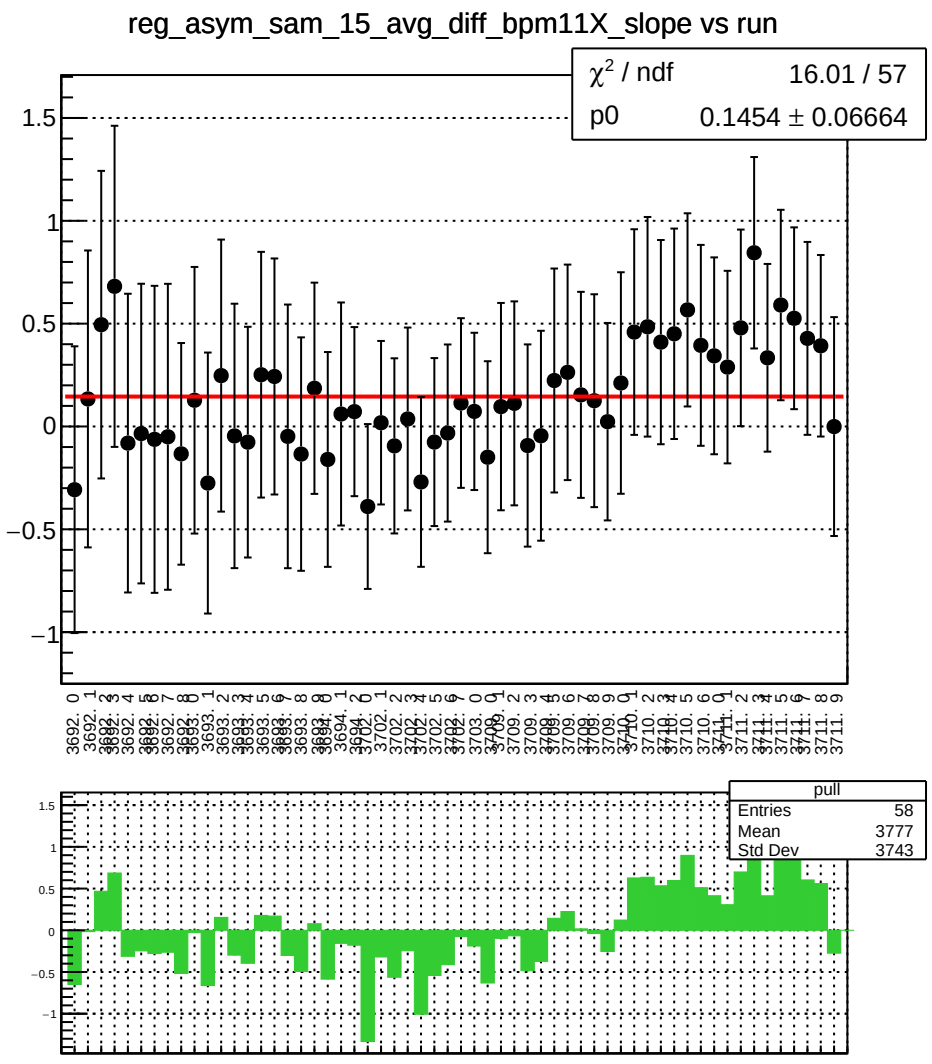

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 29.56 / 57
p0 −9.636 ± 0.4441
pull
Entries 58
Mean 246.9
Std Dev 224.2

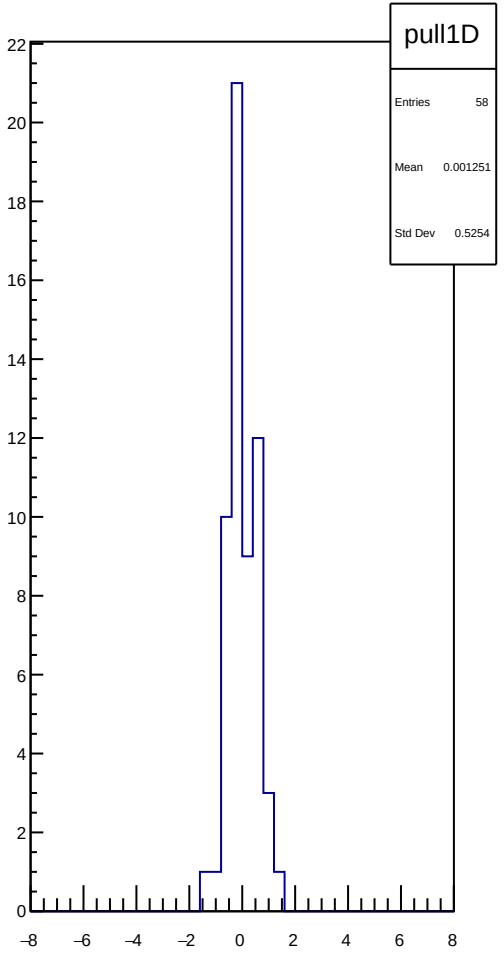

pull1D
Entries 58
Mean −0.02079
Std Dev 0.7136

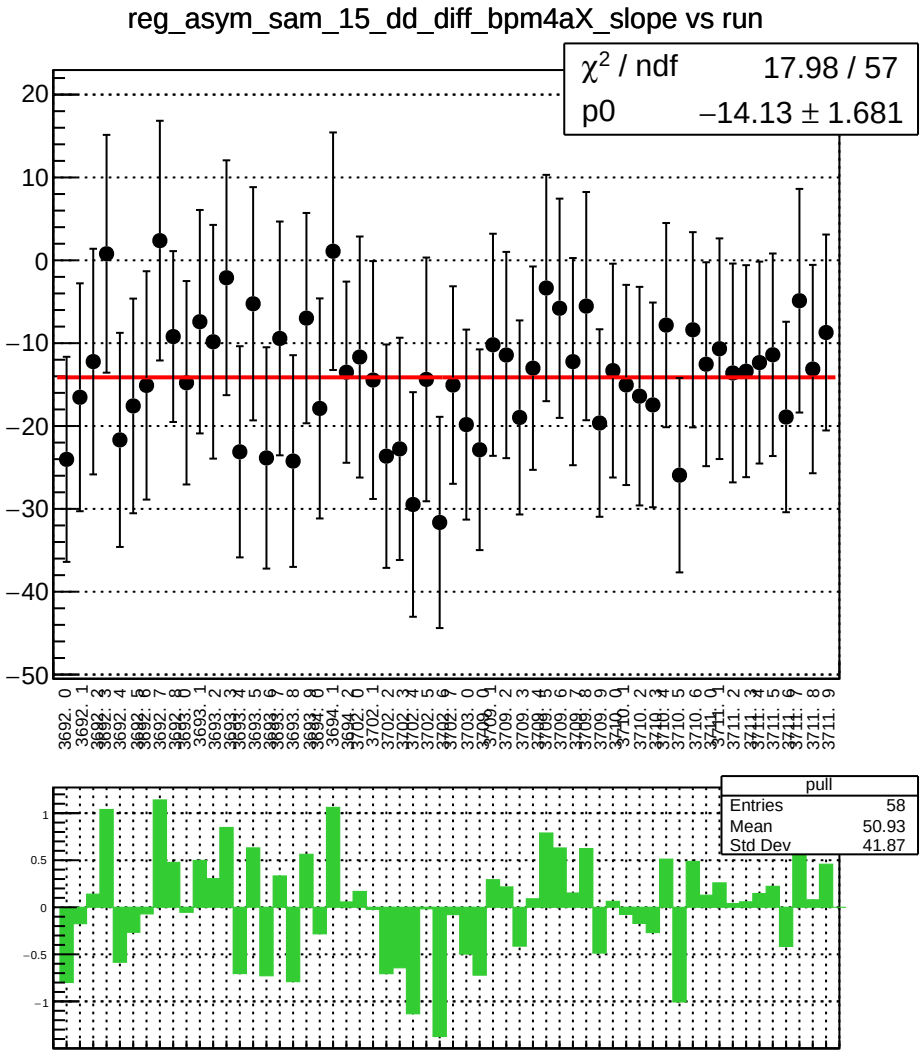

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.68 / 57
p0 −28.52 ± 0.3415
pull
Entries 58
Mean 309
Std Dev 278.3
pull1D
Entries 58
Mean 0.03641
Std Dev 0.8964

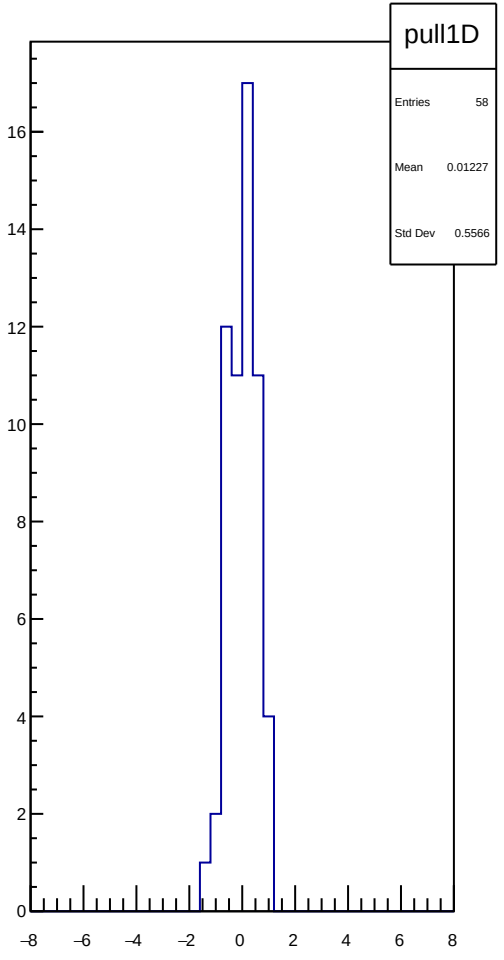

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1860 / 57
p0 20.75 ± 0.08585
pull
Entries 58
Mean 358.1
Std Dev 331.4
pull1D
Entries 58
Mean 0.7597
Std Dev 5.237

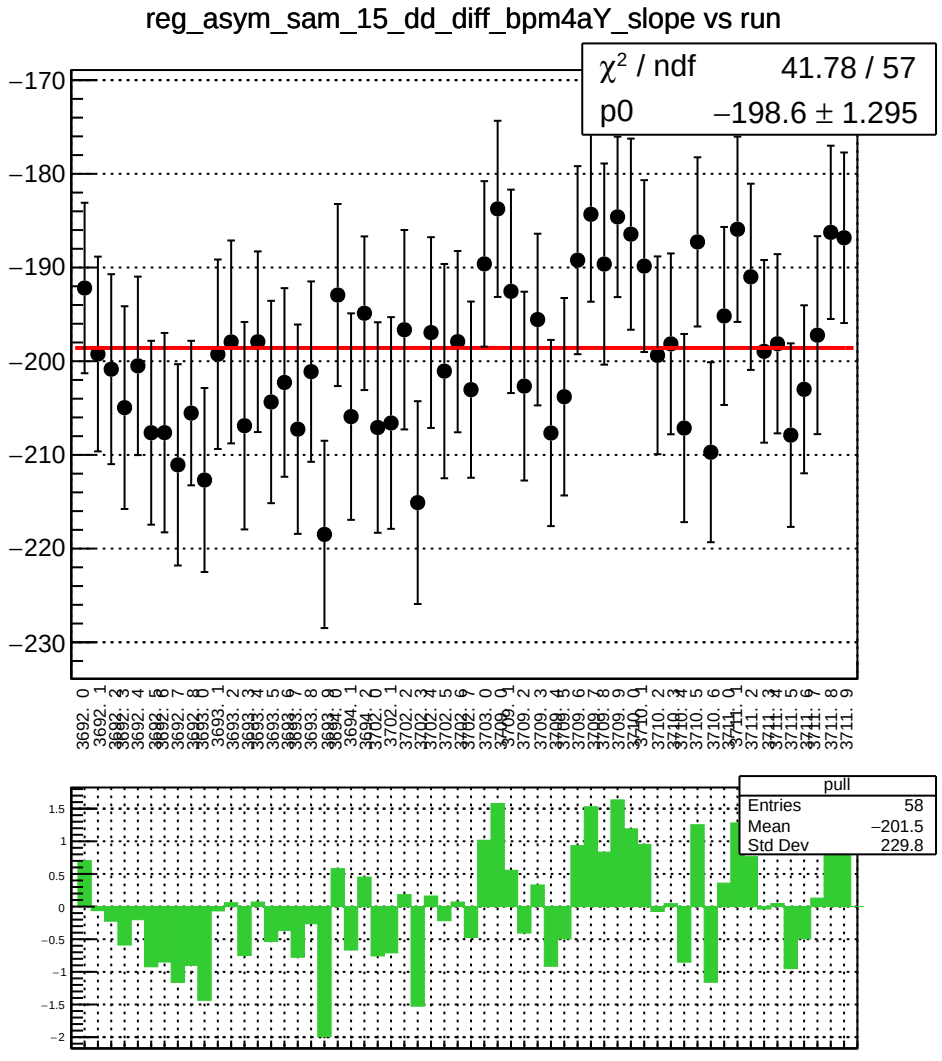

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.05 / 57
p0 −2.552 ± 0.5342
pull
Entries 58
Mean 265.5
Std Dev 236.6
pull1D
Entries 58
Mean −0.02533
Std Dev 0.7072

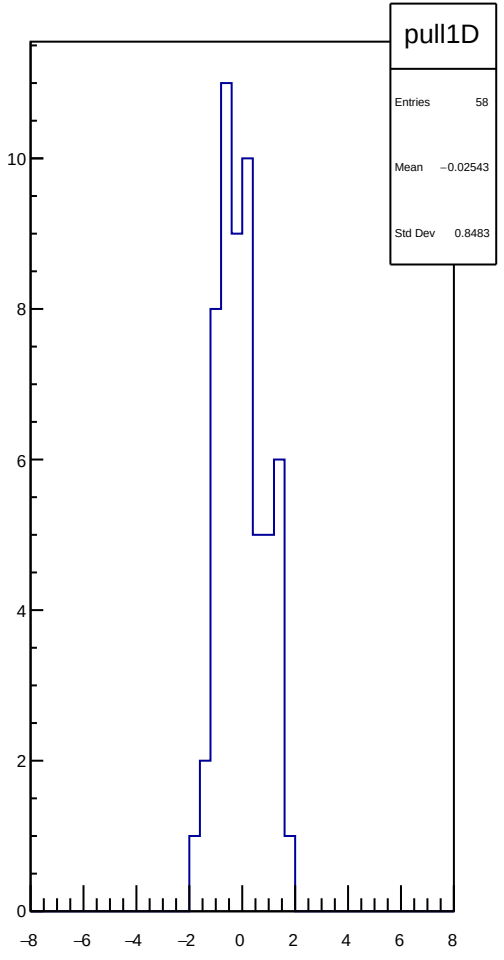

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 16.01 / 57
p0 0.1454 ± 0.06664
pull
Entries 58
Mean 3777
Std Dev 3743

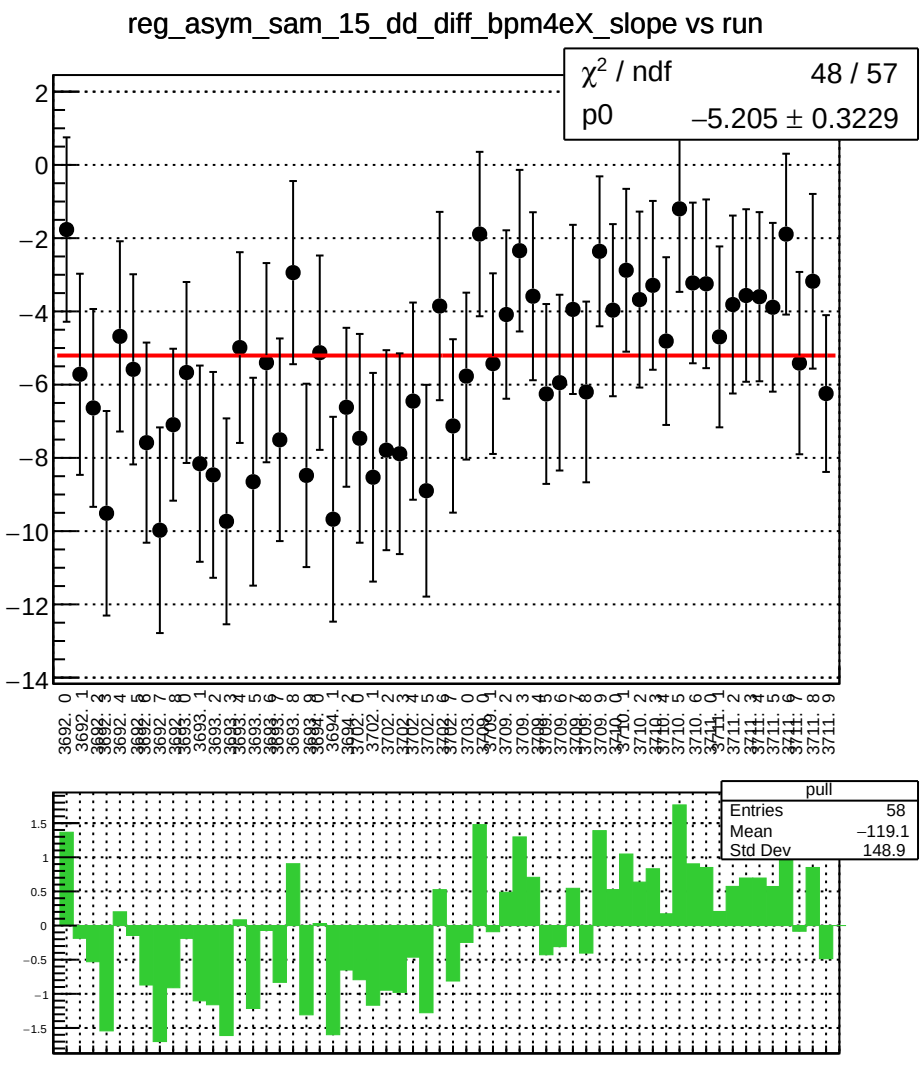

pull1D
Entries 58
Mean 0.001251
Std Dev 0.5254

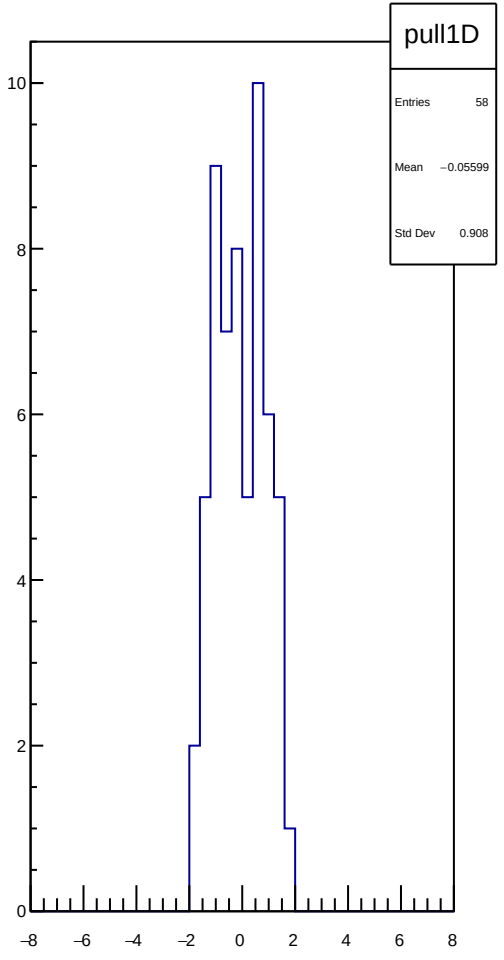

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.98 / 57
p0 −14.13 ± 1.681
pull
Entries 58
Mean 50.93
Std Dev 41.87

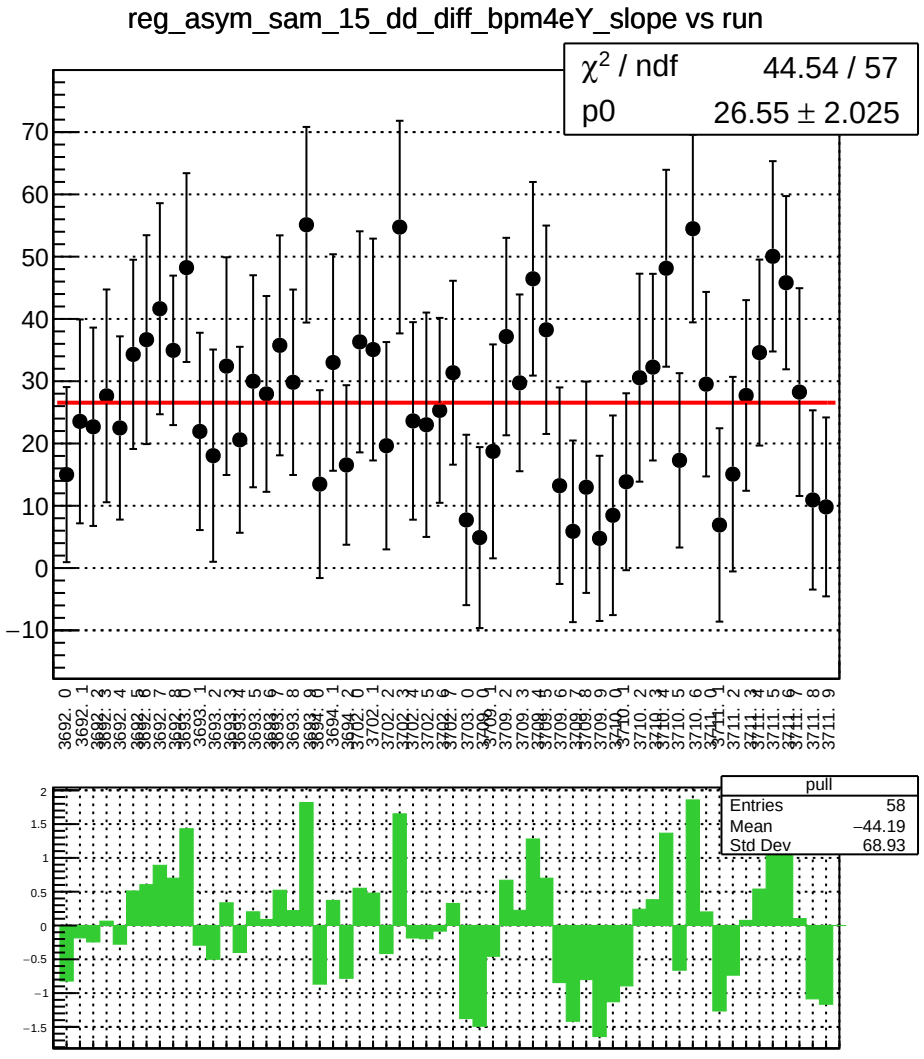

pull1D
Entries 58
Mean 0.01227
Std Dev 0.5566

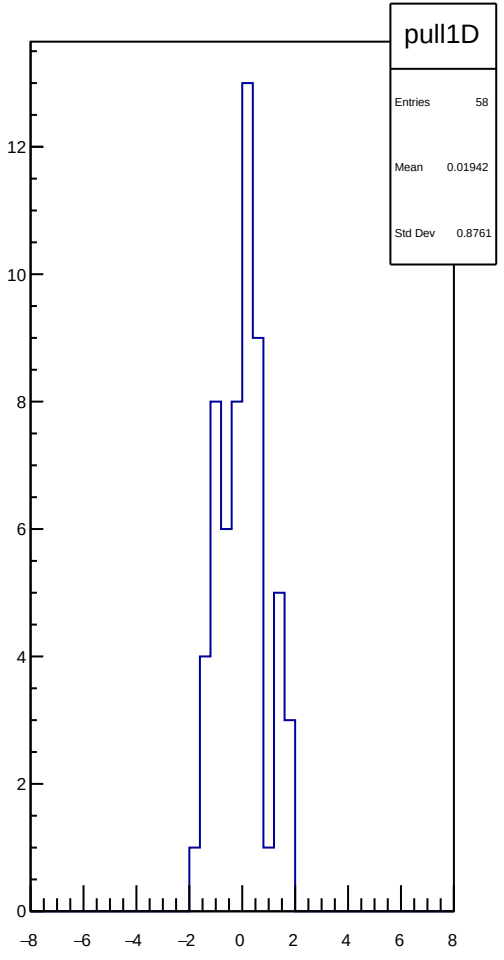

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.78 / 57
p0 −198.6 ± 1.295
pull
Entries 58
Mean −201.5
Std Dev 229.8

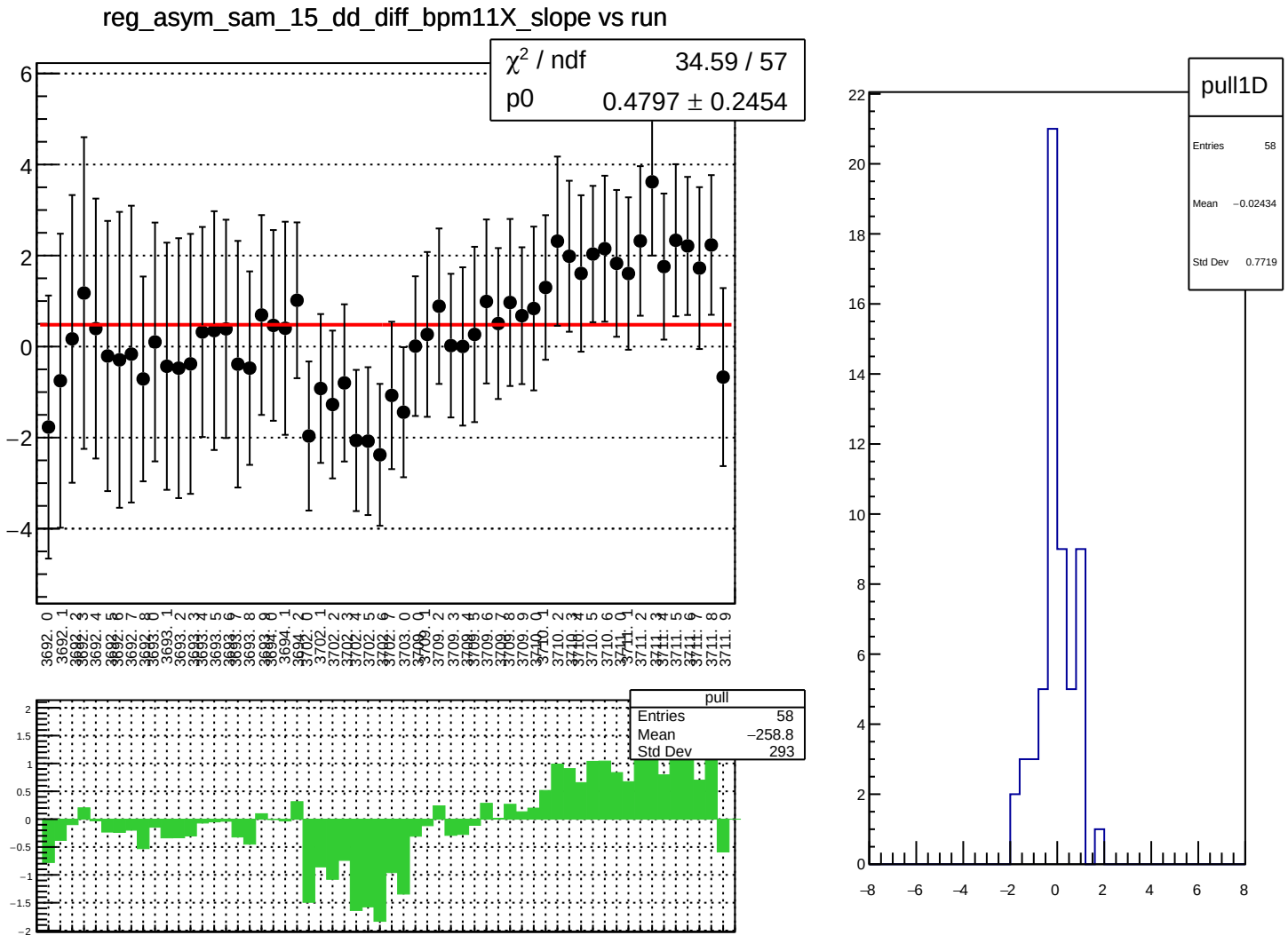

pull1D
Entries 58
Mean −0.02543
Std Dev 0.8483

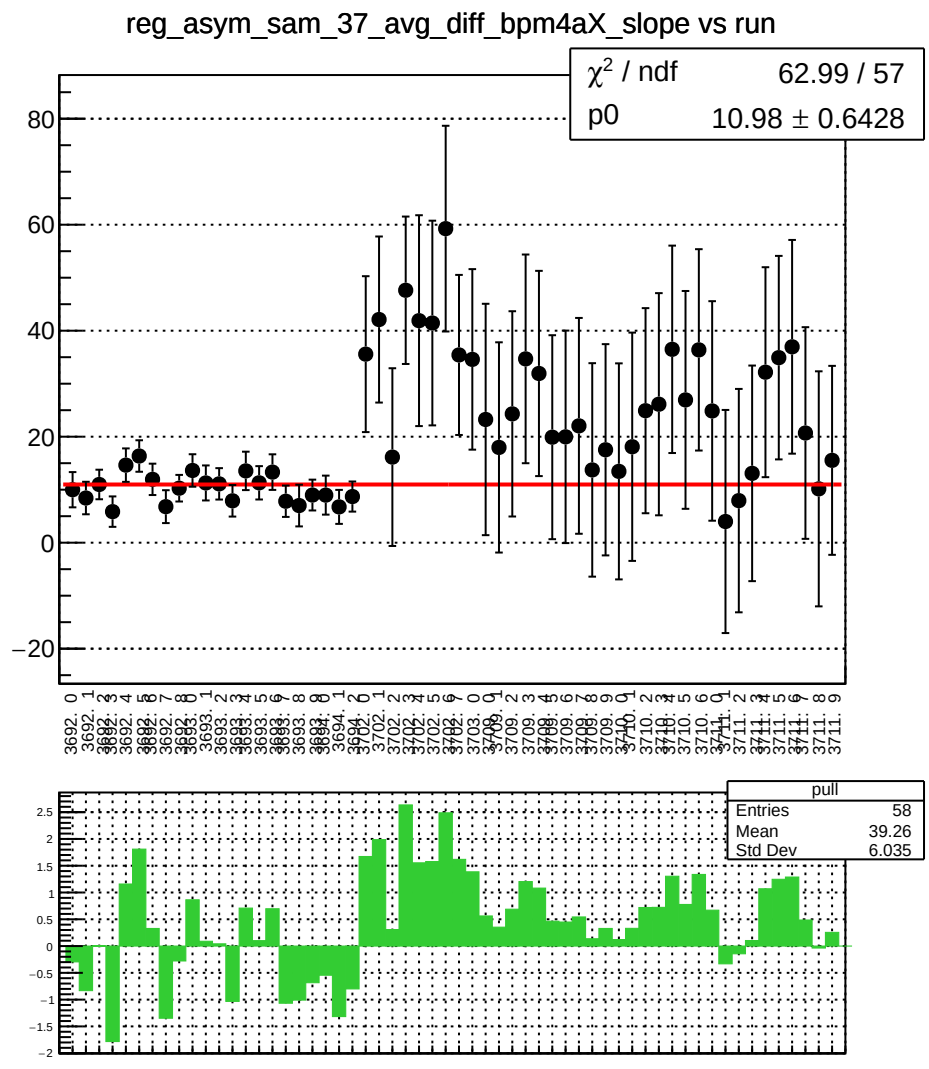

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 48 / 57
p0 −5.205 ± 0.3229
pull
Entries 58
Mean −119.1
Std Dev 148.9

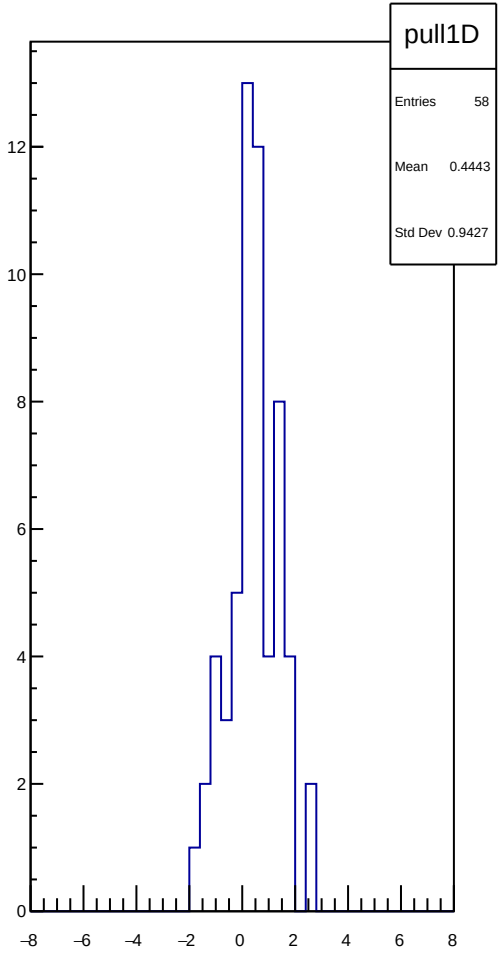

pull1D
Entries 58
Mean −0.05599
Std Dev 0.908

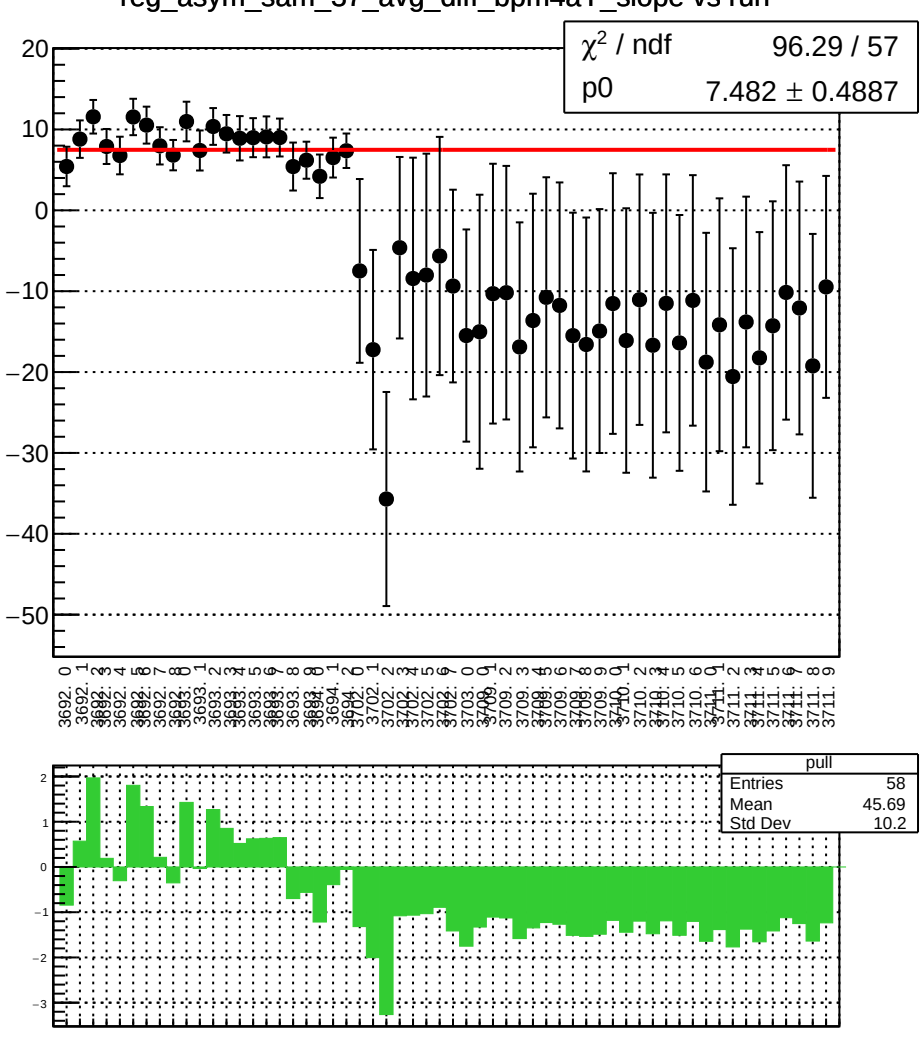

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.54 / 57
p0 26.55 ± 2.025
pull
Entries 58
Mean −44.19
Std Dev 68.93

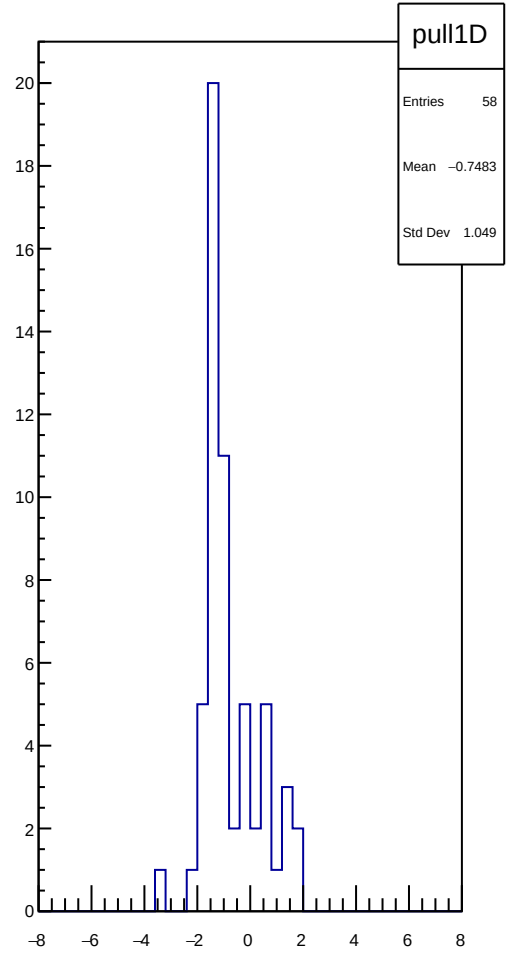

pull1D
Entries 58
Mean 0.01942
Std Dev 0.8761

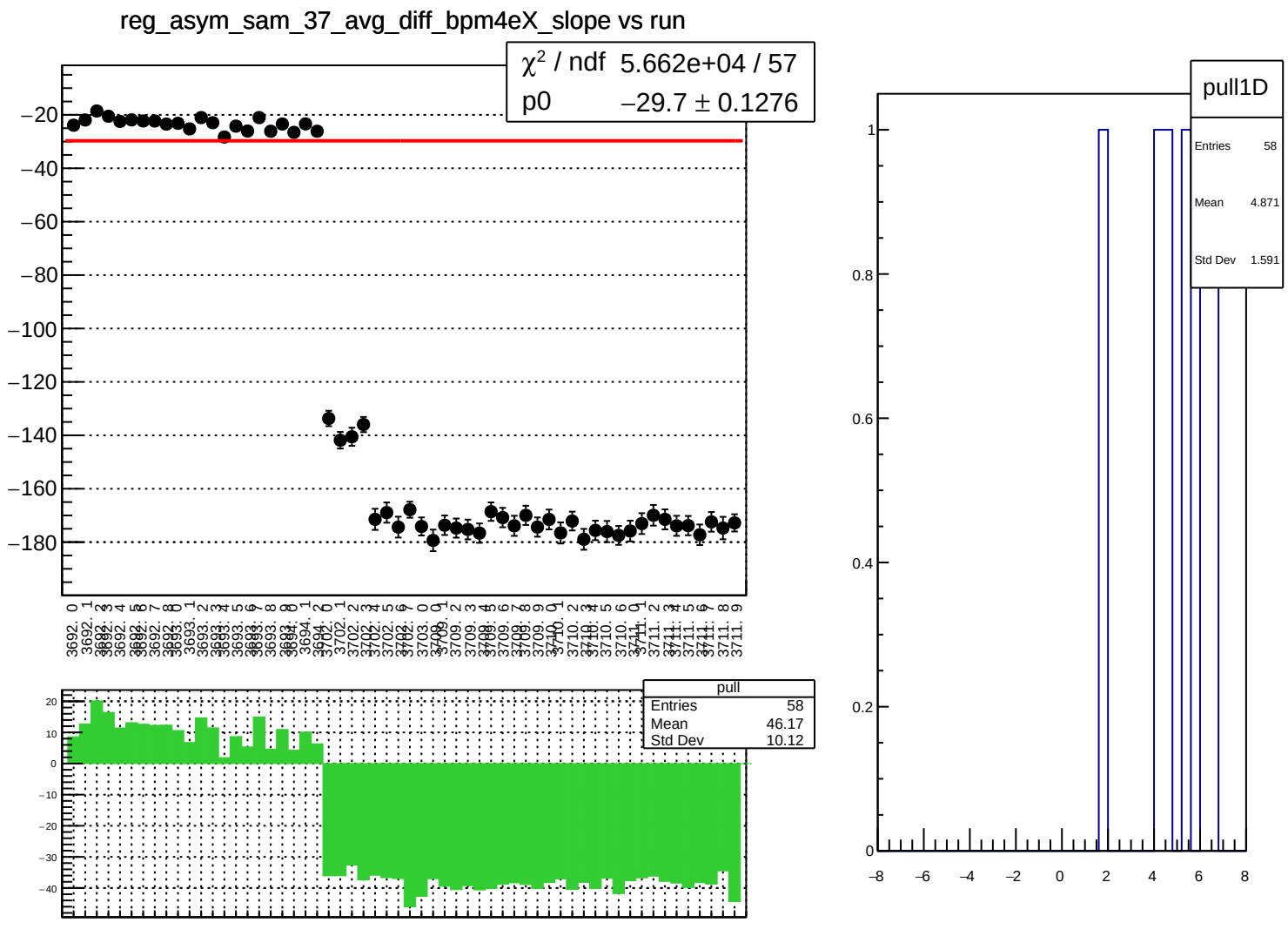

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 34.59 / 57
p0 0.4797 ± 0.2454
pull
Entries 58
Mean −258.8
Std Dev 293
pull1D
Entries 58
Mean −0.02434
Std Dev 0.7719

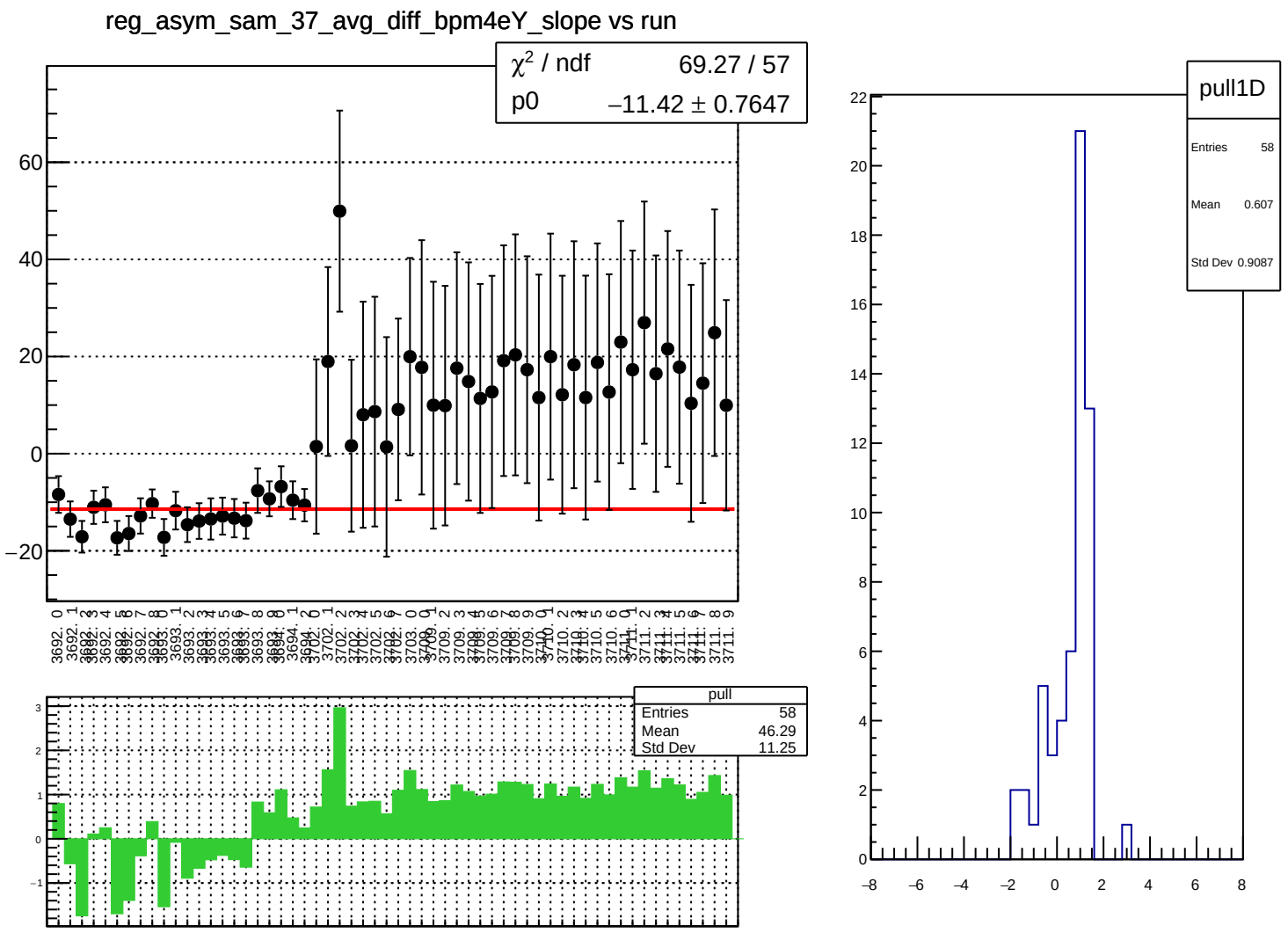

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 62.99 / 57
p0 10.98 ± 0.6428
pull
Entries 58
Mean 39.26
Std Dev 6.035

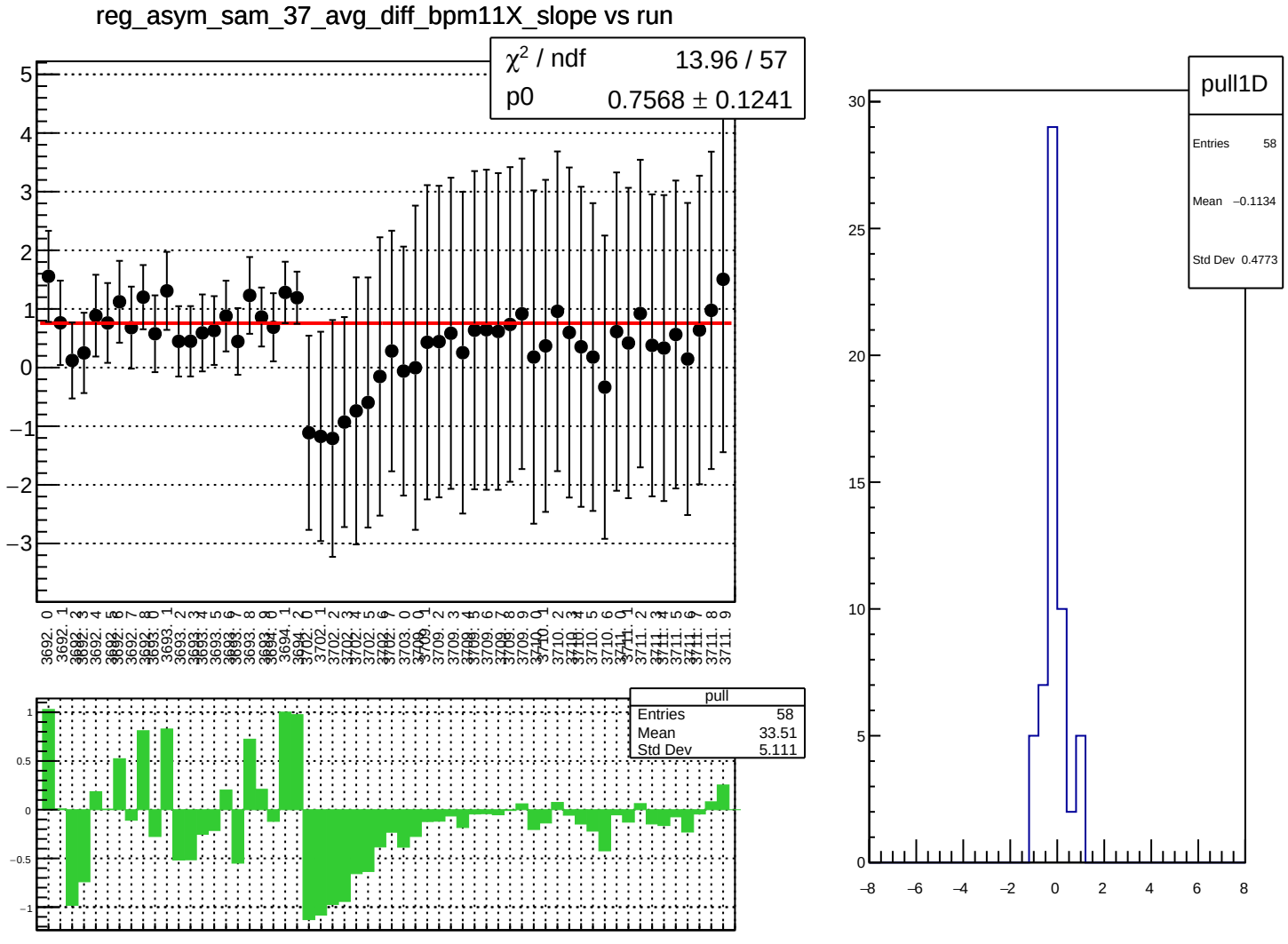

pull1D
Entries 58
Mean 0.4443
Std Dev 0.9427

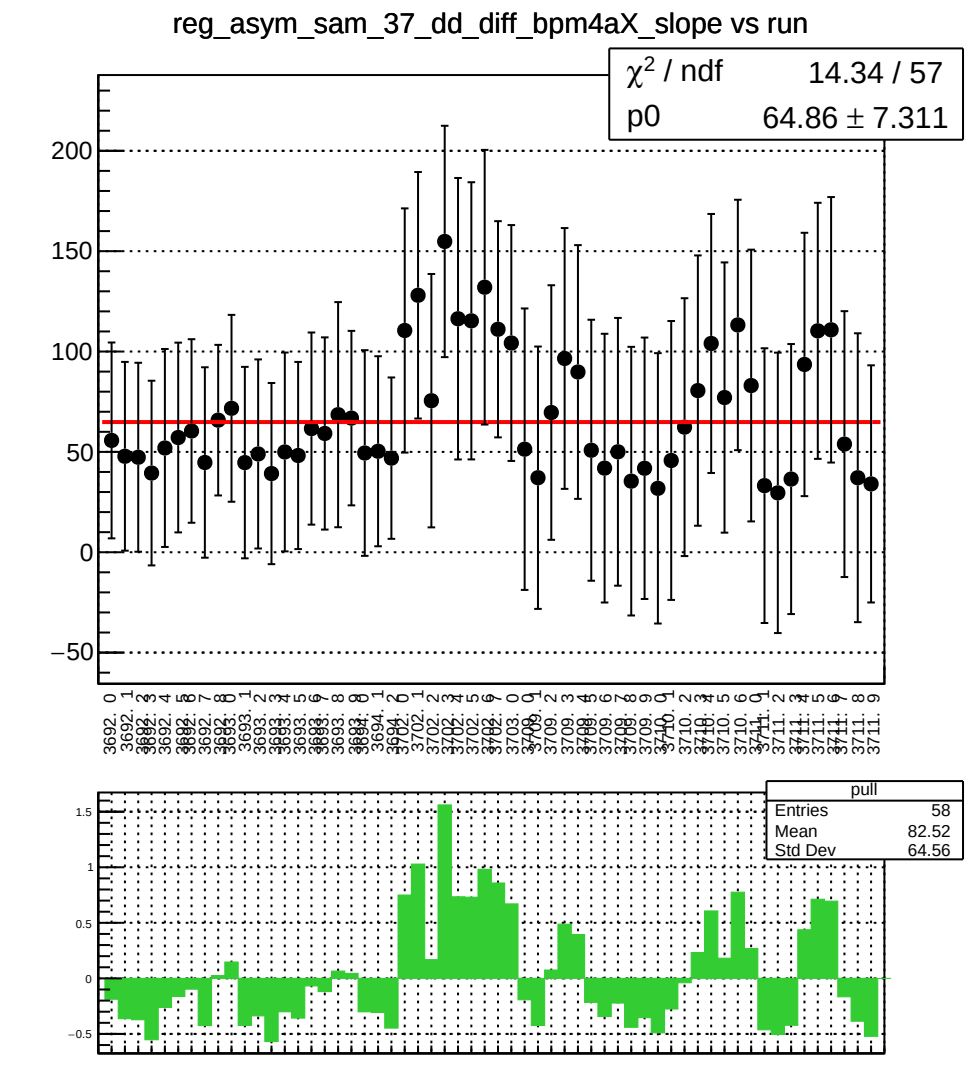

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 96.29 / 57
p0 7.482 ± 0.4887
pull
Entries 58
Mean 45.69
Std Dev 10.2

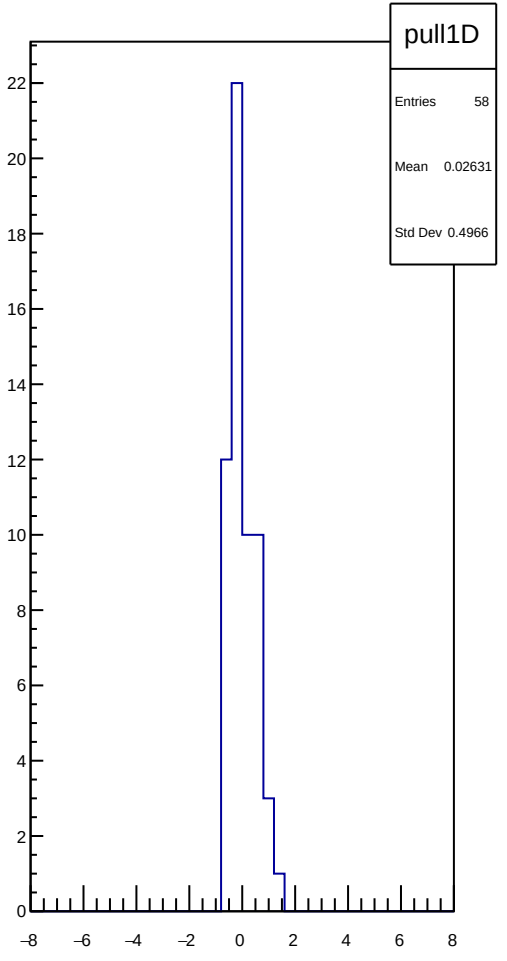

pull1D
Entries 58
Mean −0.7483
Std Dev 1.049

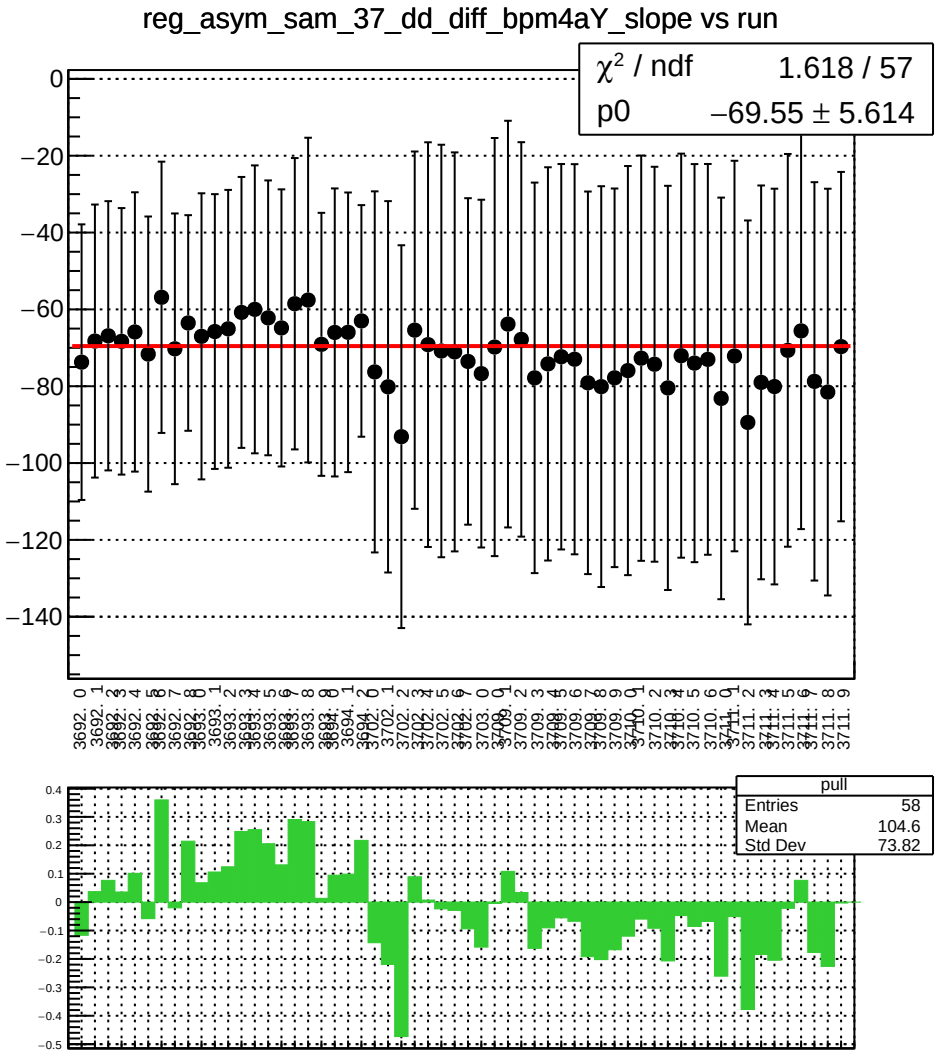

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.662e+04 / 57
p0 −29.7 ± 0.1276
pull
Entries 58
Mean 46.17
Std Dev 10.12
pull1D
Entries 58
Mean 4.871
Std Dev 1.591

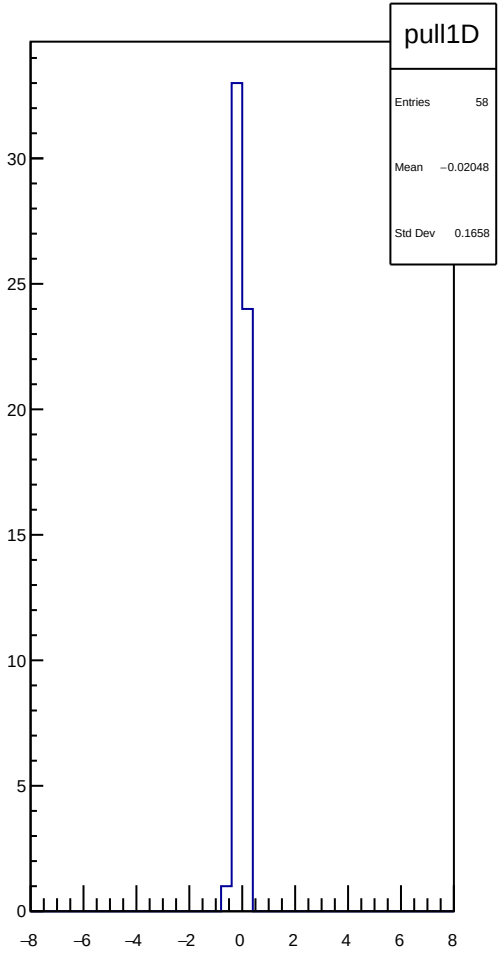

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.27 / 57
p0 −11.42 ± 0.7647
pull
Entries 58
Mean 46.29
Std Dev 11.25
pull1D
Entries 58
Mean 0.607
Std Dev 0.9087

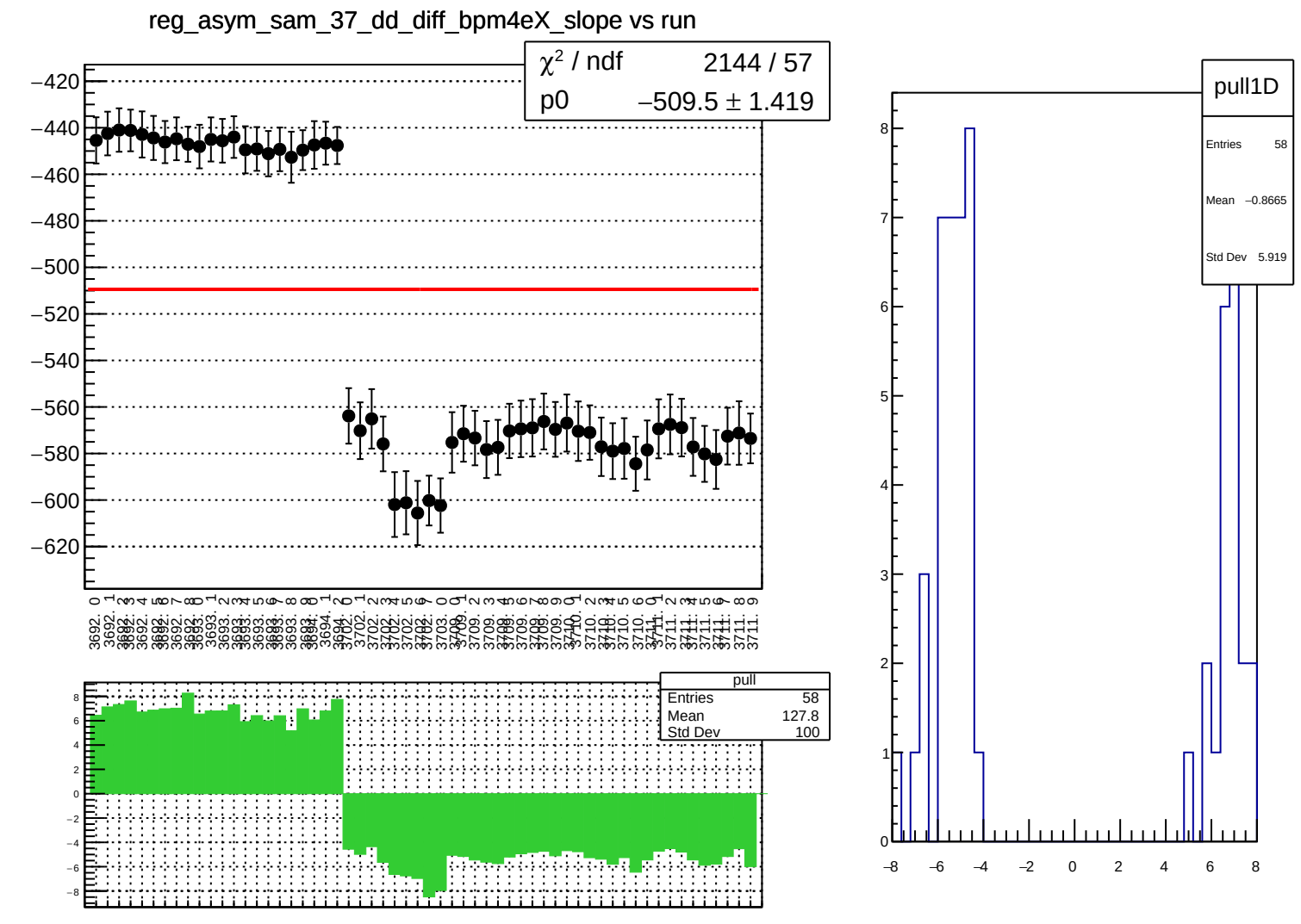

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 13.96 / 57
p0 0.7568 ± 0.1241
pull
Entries 58
Mean 33.51
Std Dev 5.111
pull1D
Entries 58
Mean −0.1134
Std Dev 0.4773

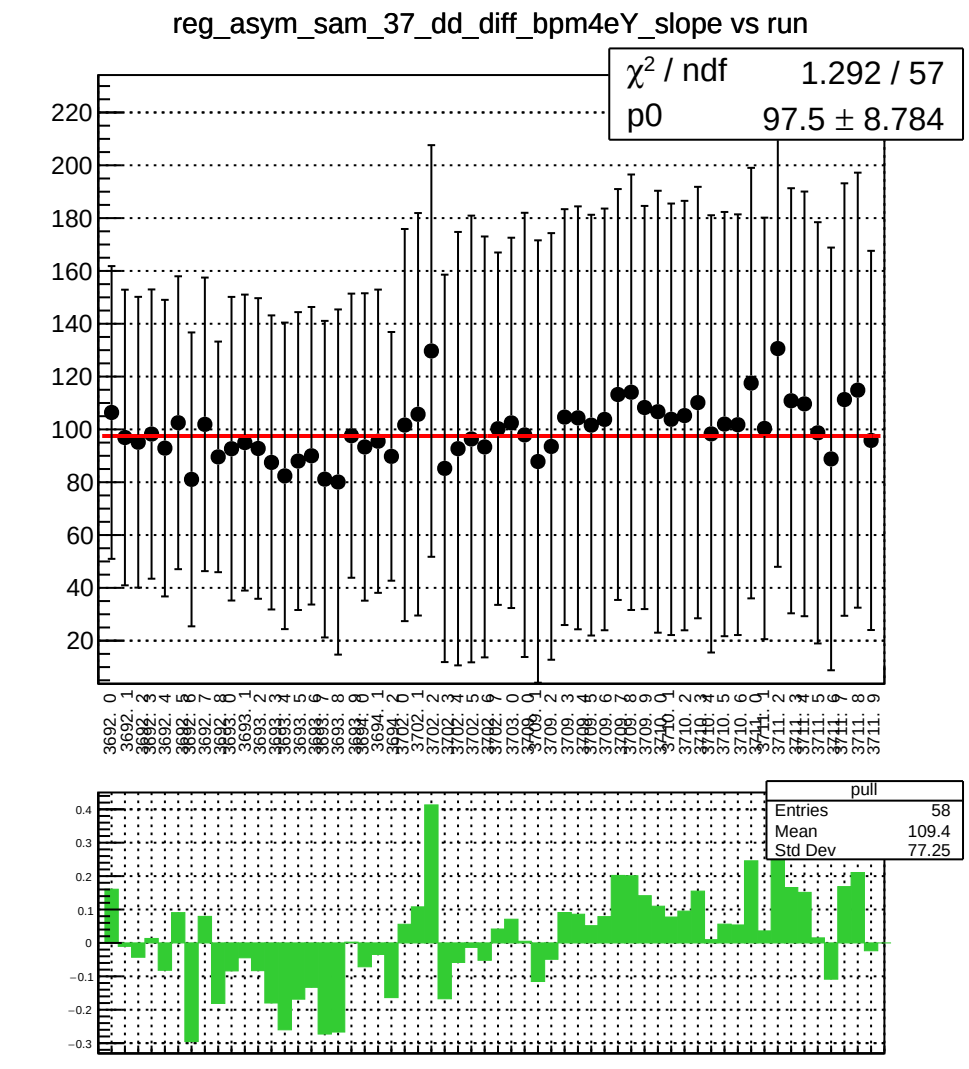

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.34 / 57
p0 64.86 ± 7.311
pull
Entries 58
Mean 82.52
Std Dev 64.56

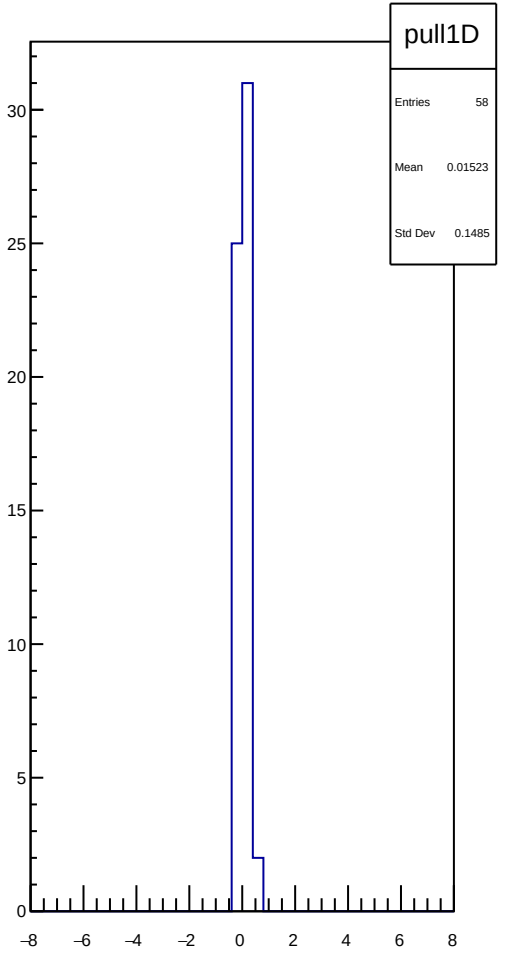

pull1D
Entries 58
Mean 0.02631
Std Dev 0.4966

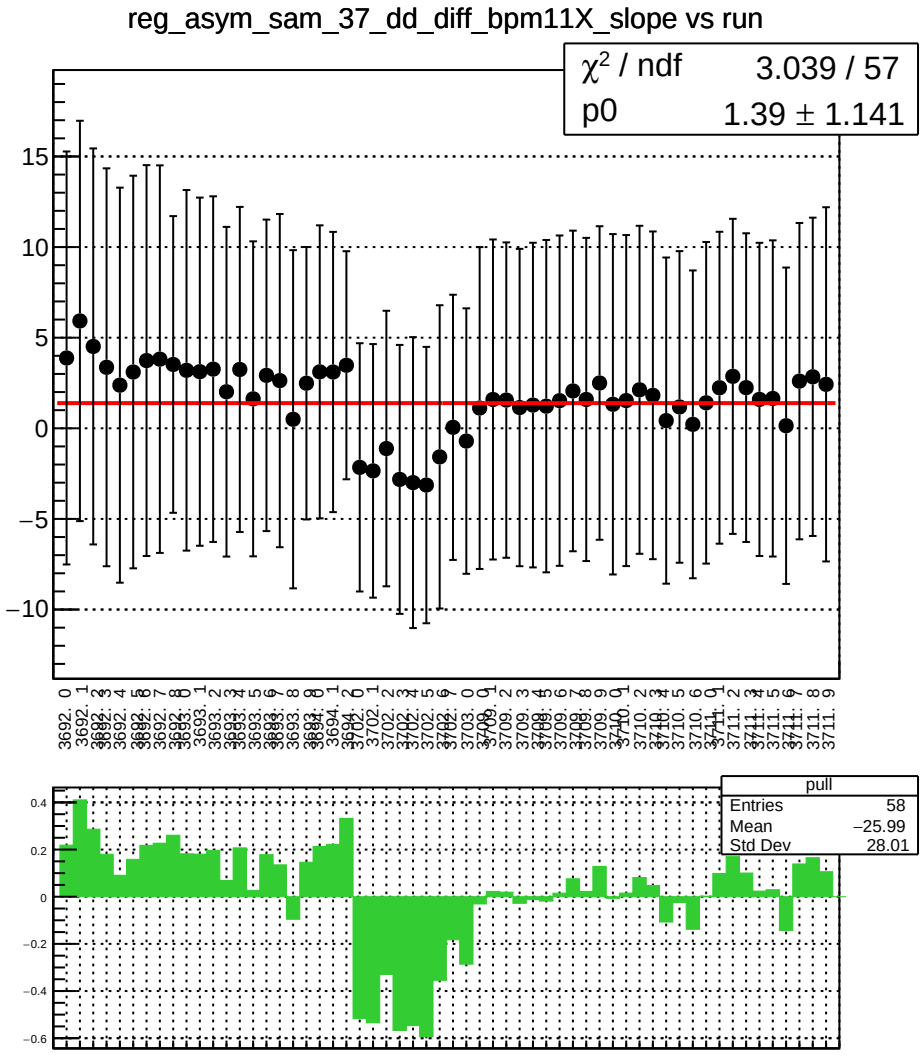

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.618 / 57
p0 −69.55 ± 5.614
pull
Entries 58
Mean 104.6
Std Dev 73.82

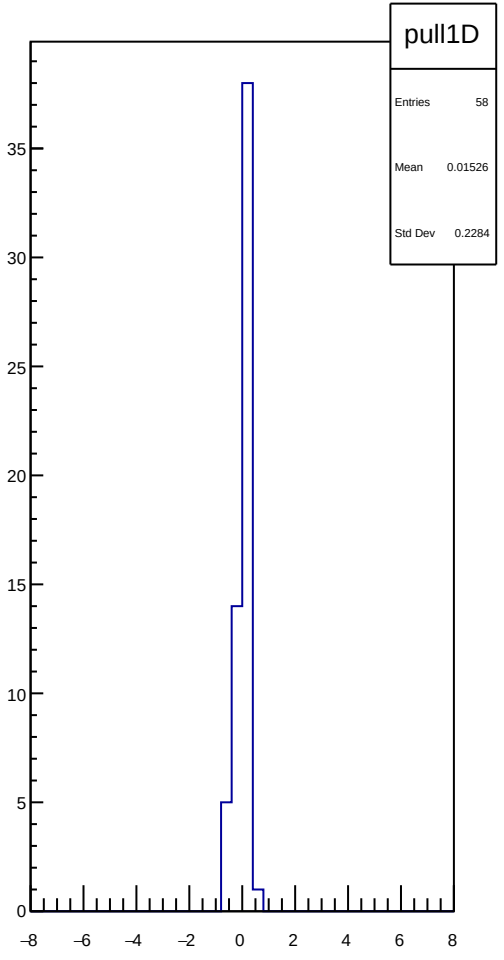

pull1D
Entries 58
Mean −0.02048
Std Dev 0.1658

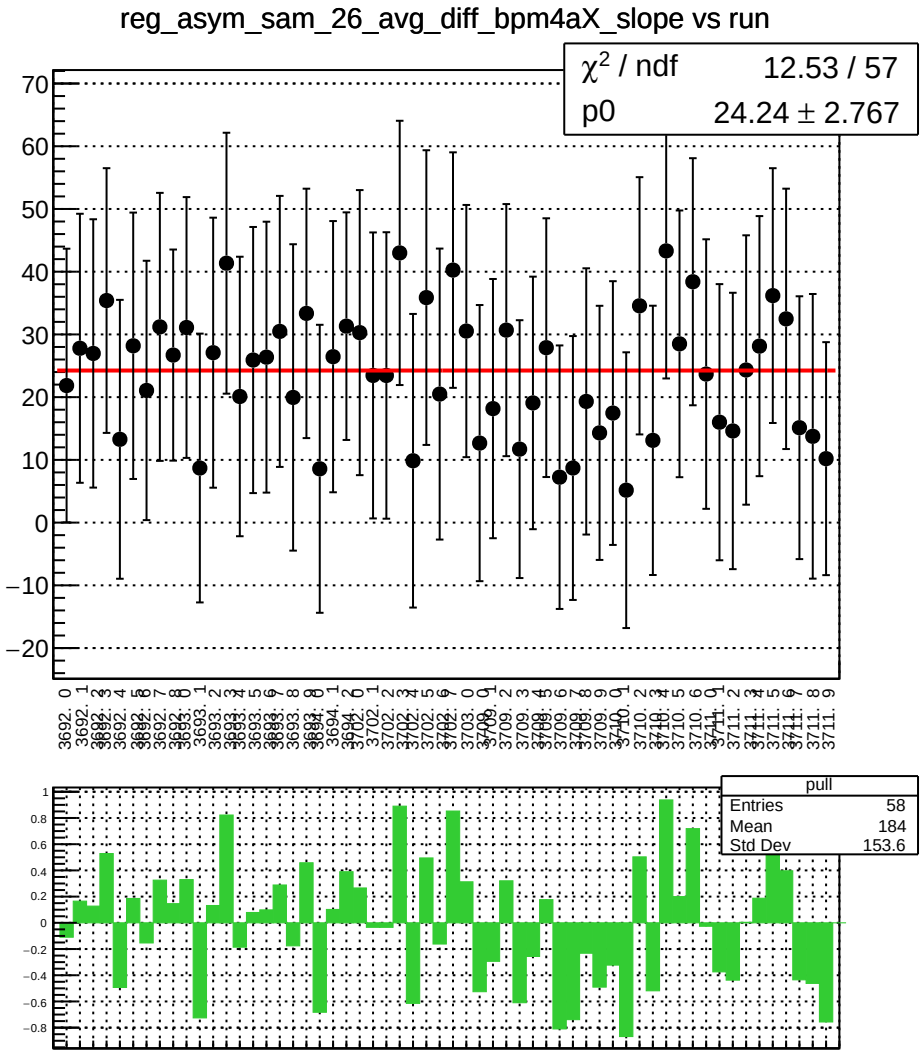

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2144 / 57
p0 −509.5 ± 1.419
pull
Entries 58
Mean 127.8
Std Dev 100
pull1D
Entries 58
Mean −0.8665
Std Dev 5.919

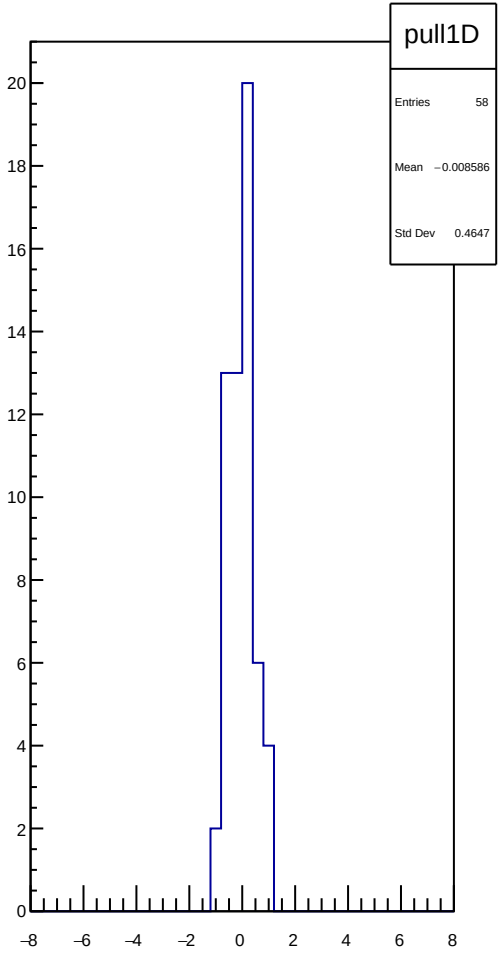

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.292 / 57
p0 97.5 ± 8.784
pull
Entries 58
Mean 109.4
Std Dev 77.25

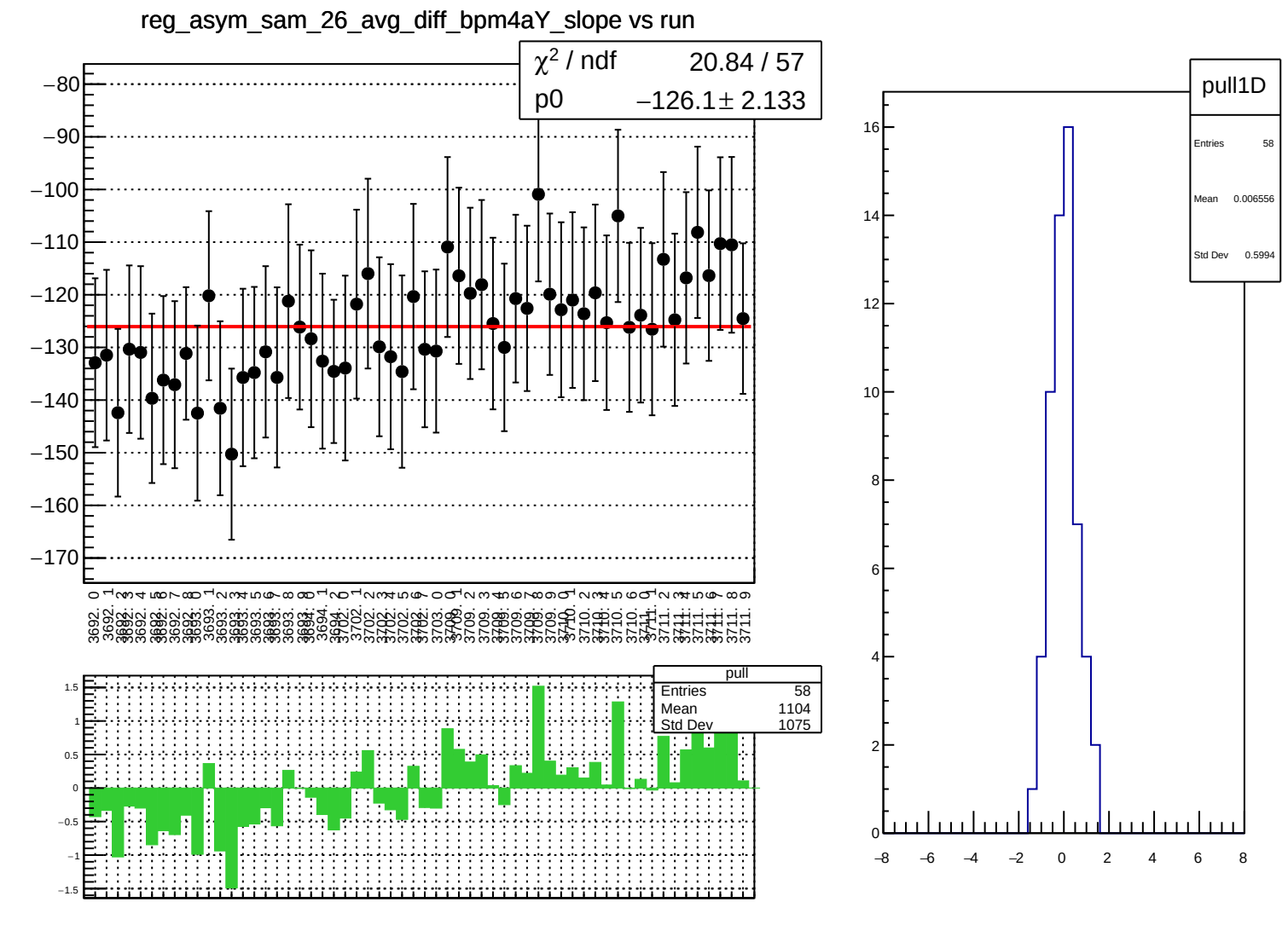

pull1D
Entries 58
Mean 0.01523
Std Dev 0.1485

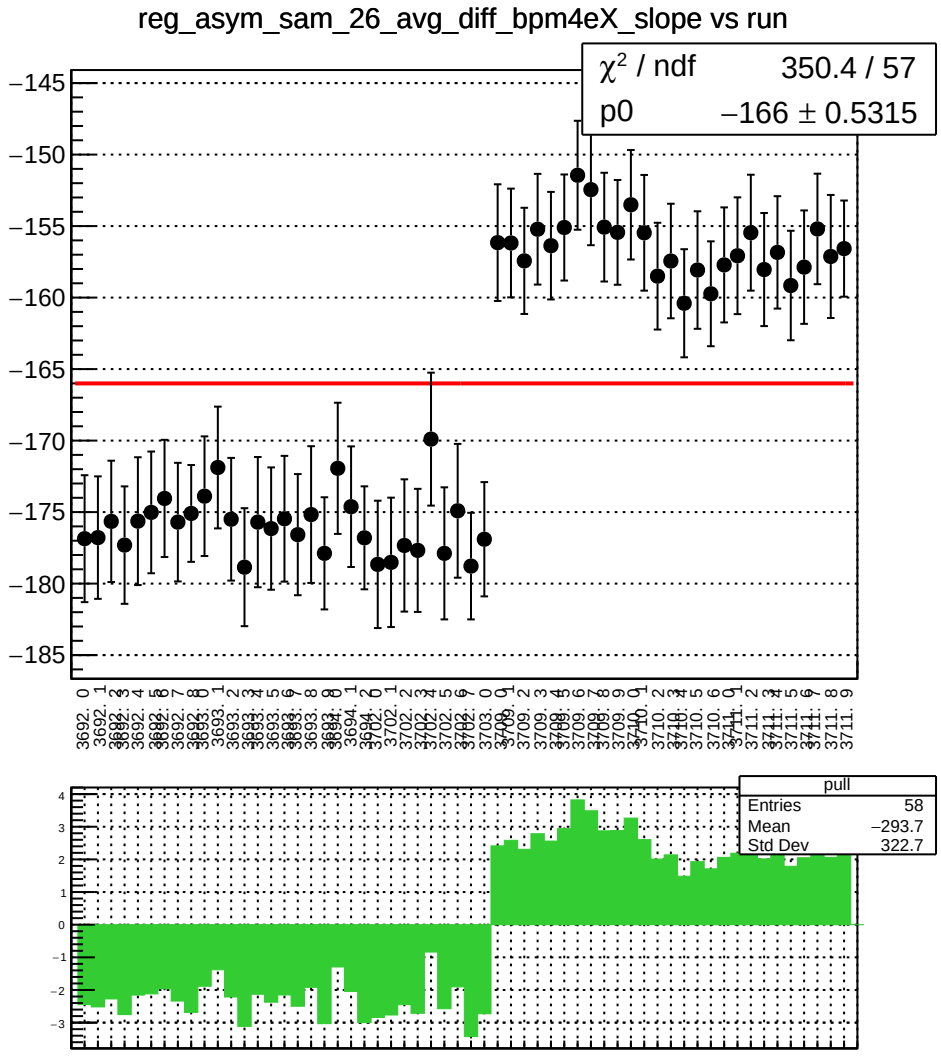

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 3.039 / 57
p0 1.39 ± 1.141
pull
Entries 58
Mean −25.99
Std Dev 28.01

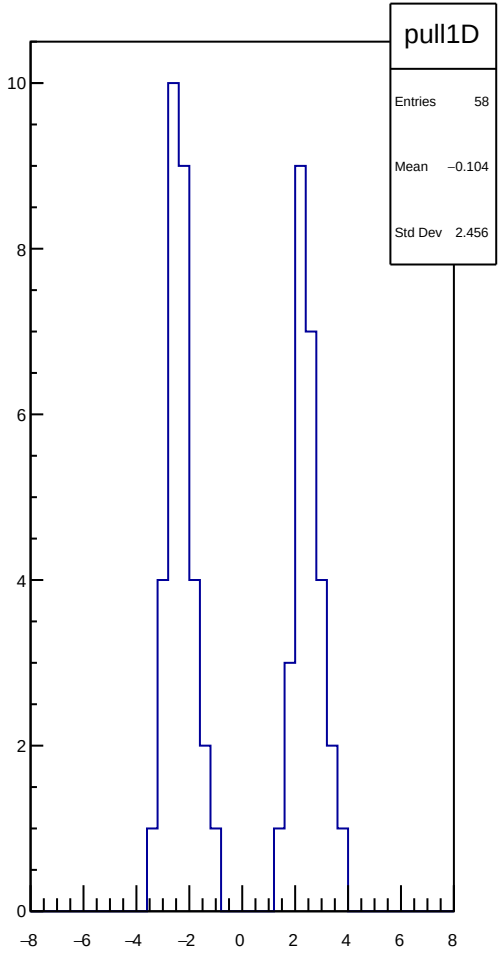

pull1D
Entries 58
Mean 0.01526
Std Dev 0.2284

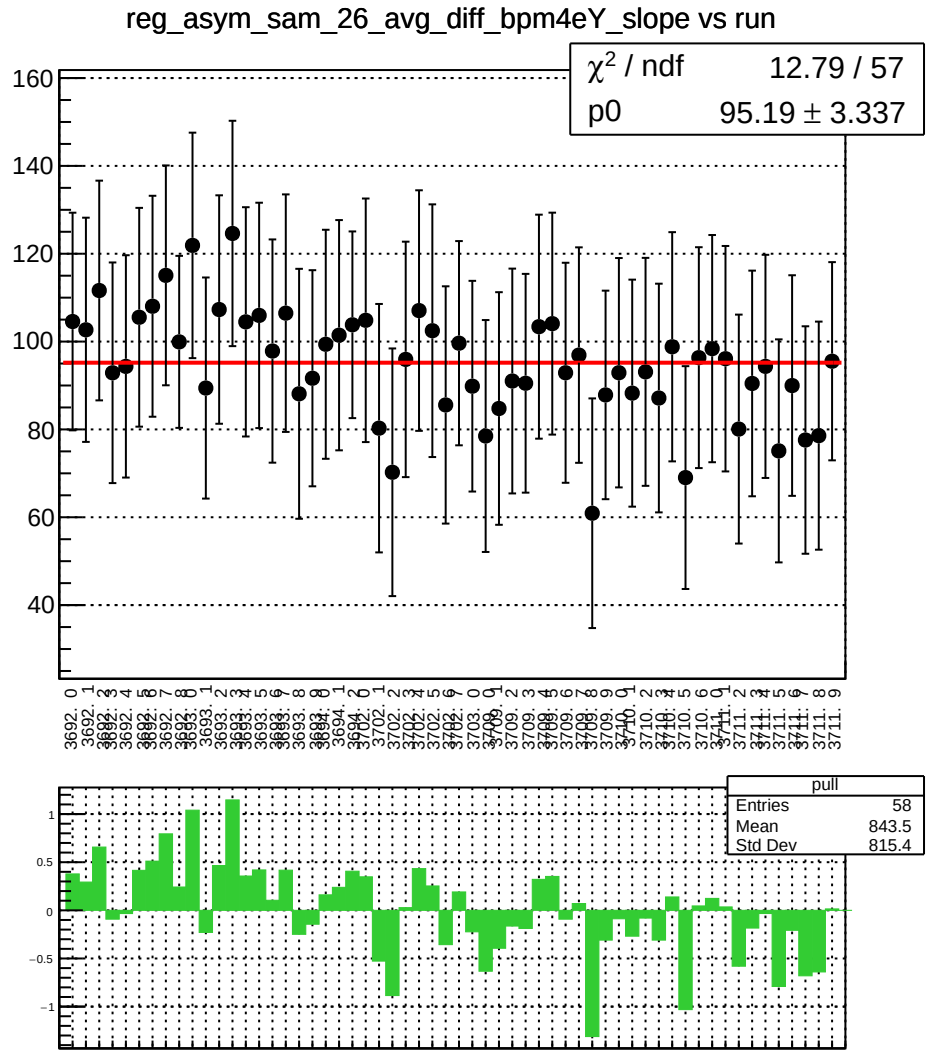

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.53 / 57
p0 24.24 ± 2.767
pull
Entries 58
Mean 184
Std Dev 153.6

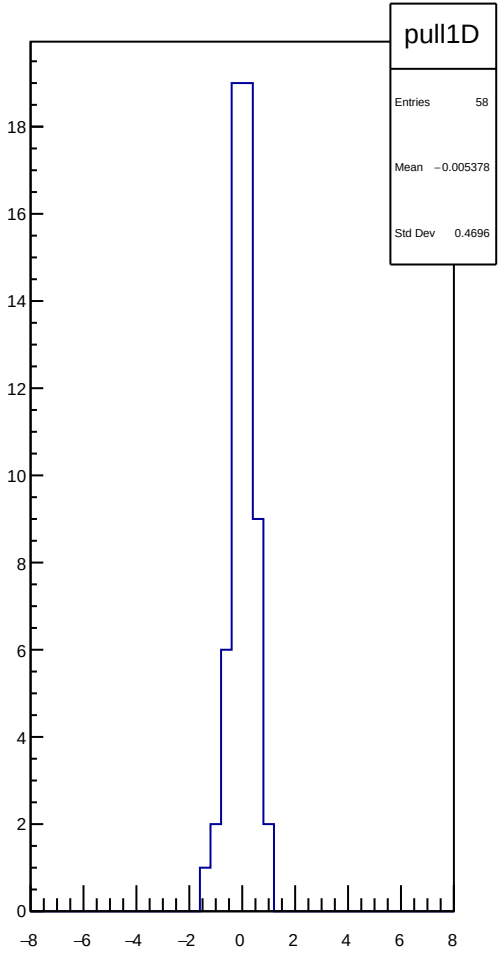

pull1D
Entries 58
Mean −0.008586
Std Dev 0.4647

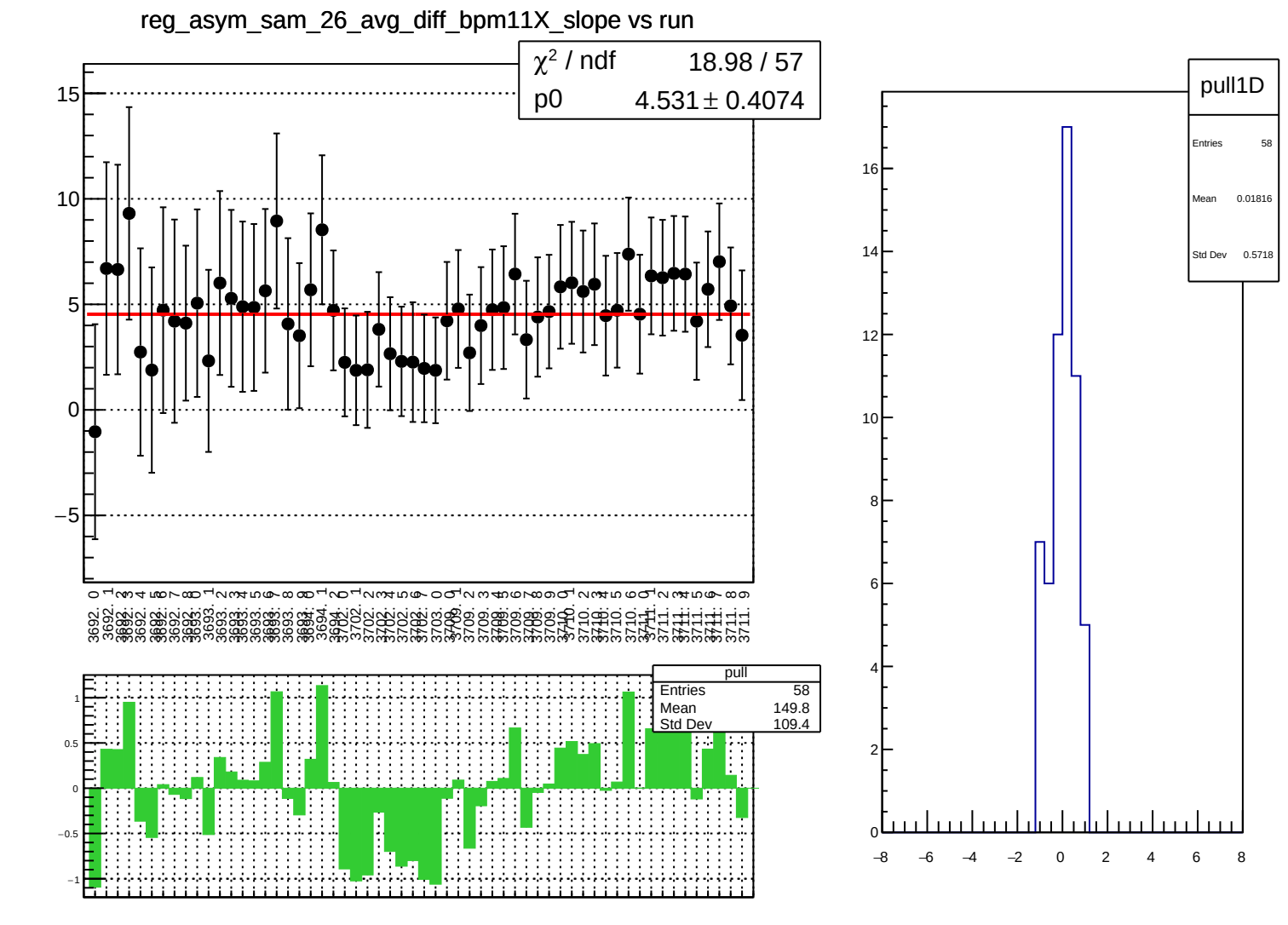

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.84 / 57
p0 −126.1± 2.133
pull
Entries 58
Mean 1104
Std Dev 1075
pull1D
Entries 58
Mean 0.006556
Std Dev 0.5994

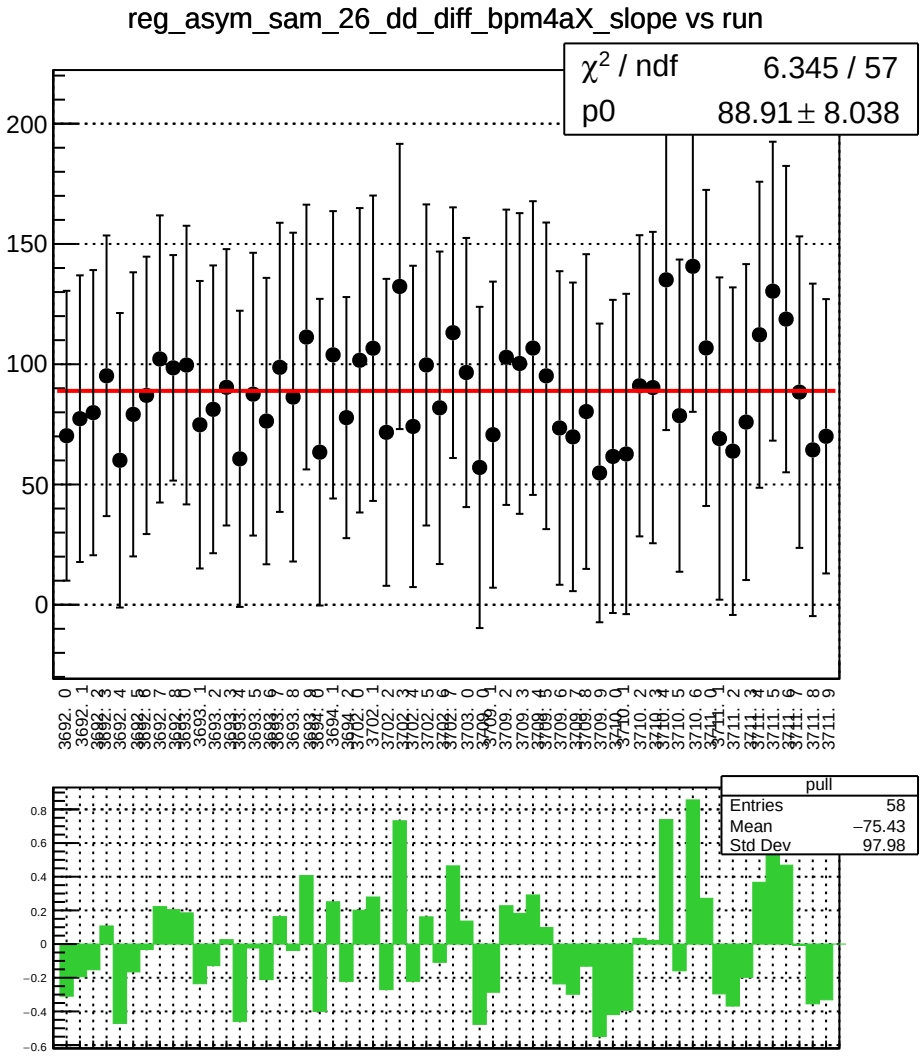

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 350.4 / 57
p0 −166 ± 0.5315
pull
Entries 58
Mean −293.7
Std Dev 322.7

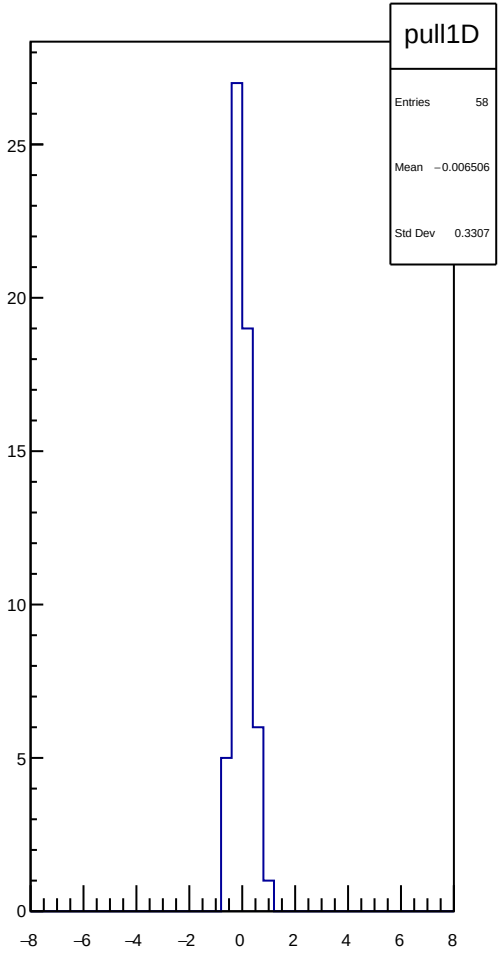

pull1D
Entries 58
Mean −0.104
Std Dev 2.456

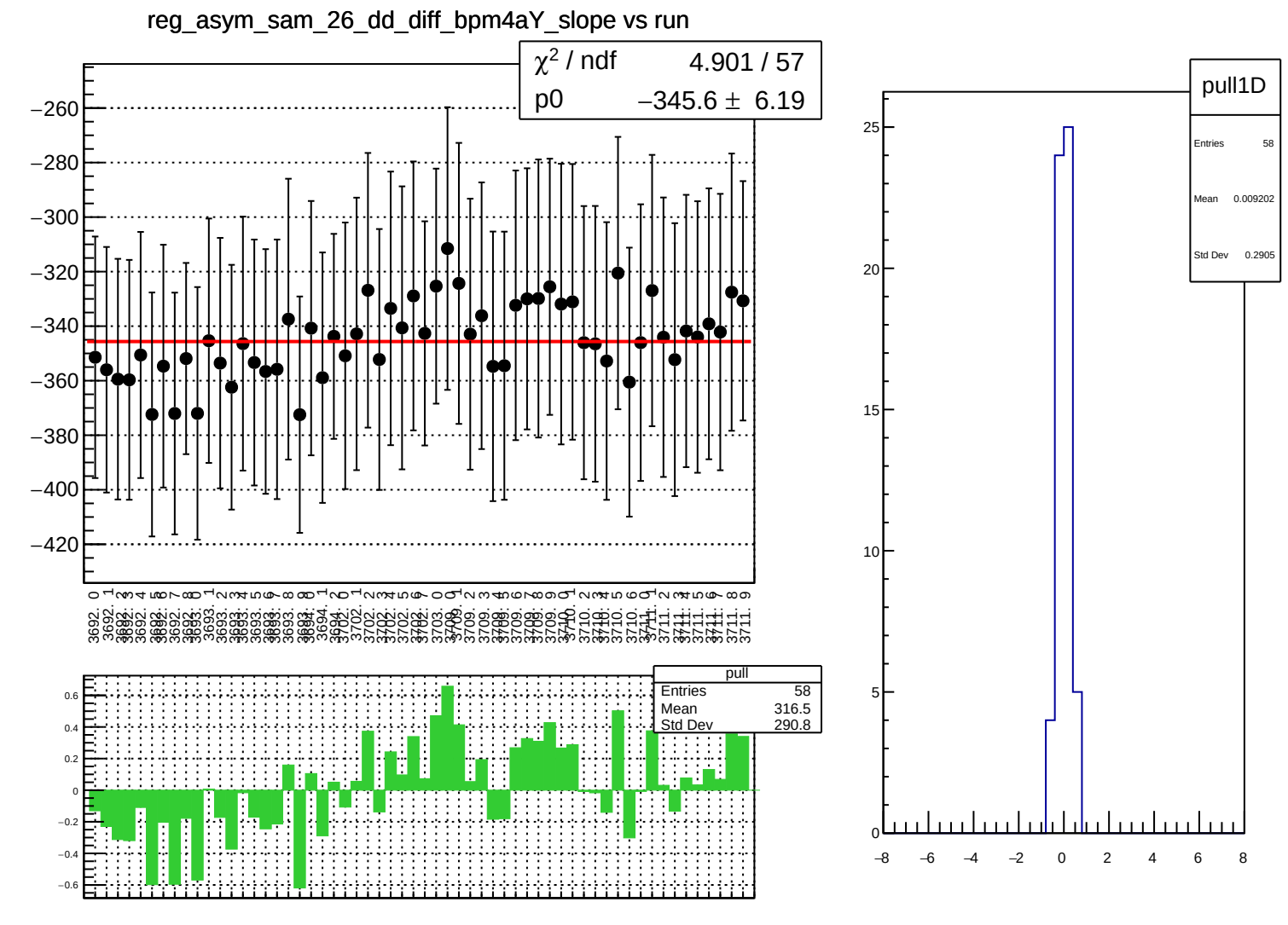

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.79 / 57
p0 95.19 ± 3.337
pull
Entries 58
Mean 843.5
Std Dev 815.4

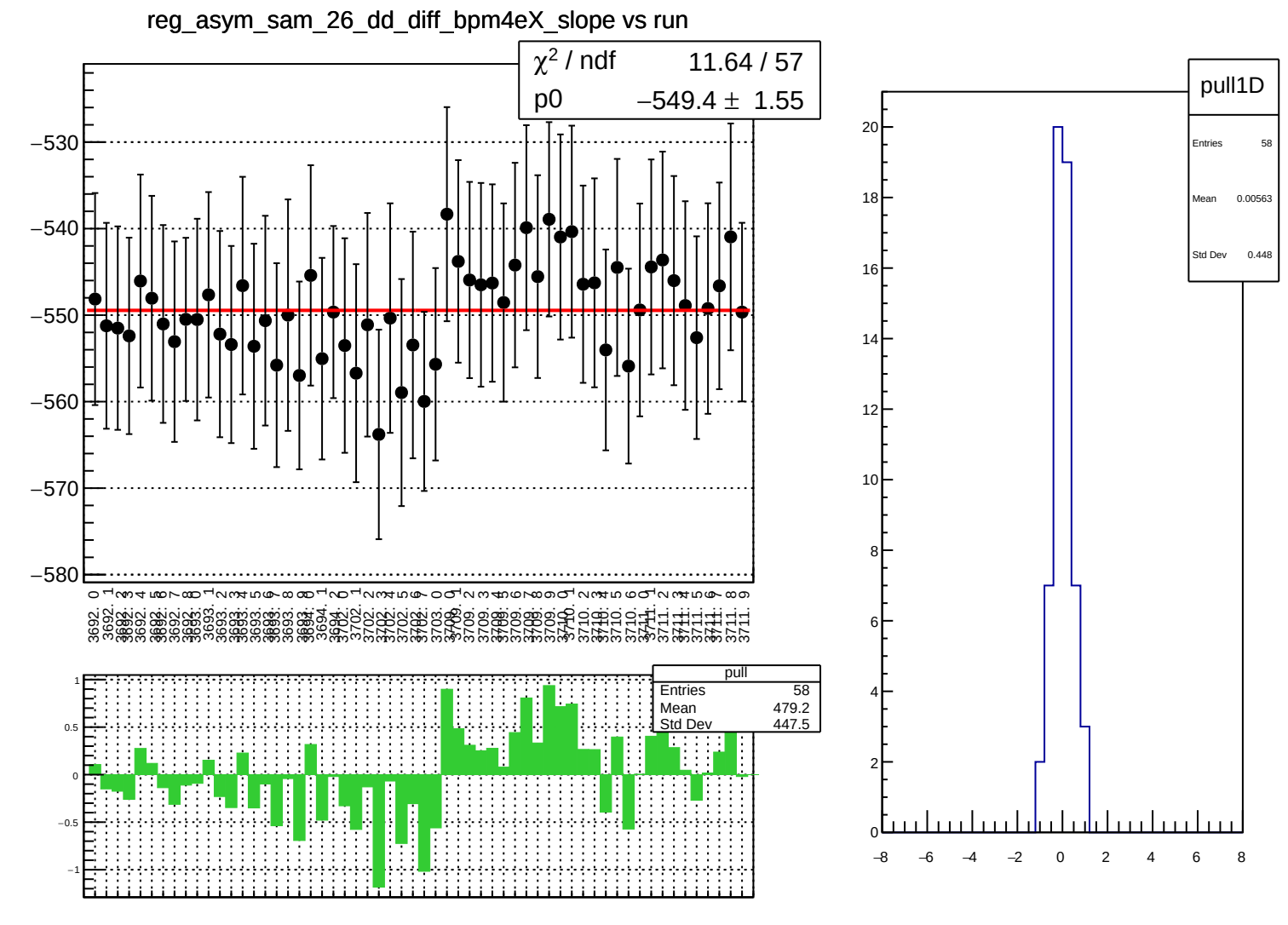

pull1D
Entries 58
Mean −0.005378
Std Dev 0.4696

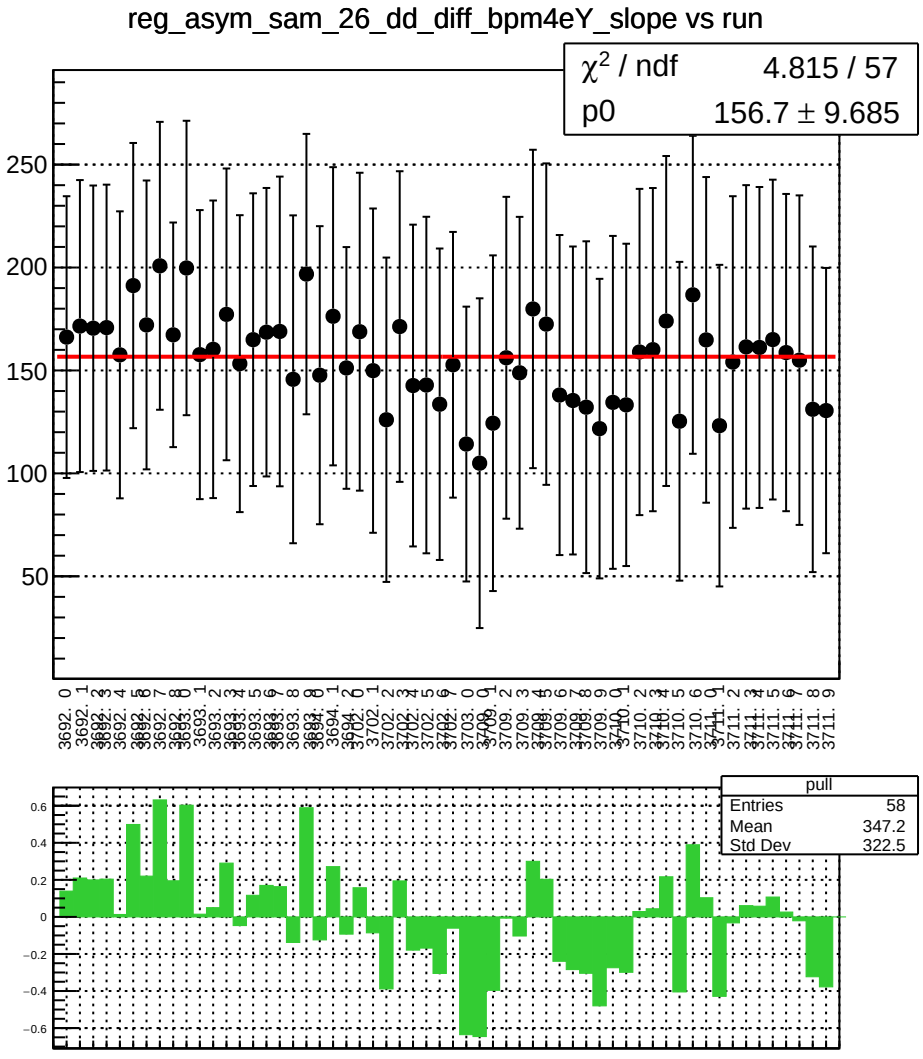

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 18.98 / 57
p0 4.531 ± 0.4074
pull
Entries 58
Mean 149.8
Std Dev 109.4
pull1D
Entries 58
Mean 0.01816
Std Dev 0.5718

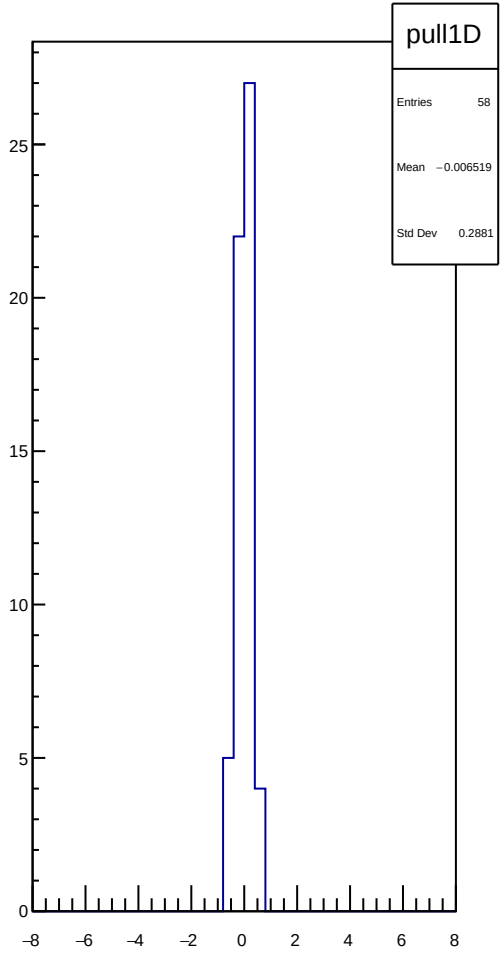

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.345 / 57
p0 88.91 ± 8.038
pull
Entries 58
Mean −75.43
Std Dev 97.98

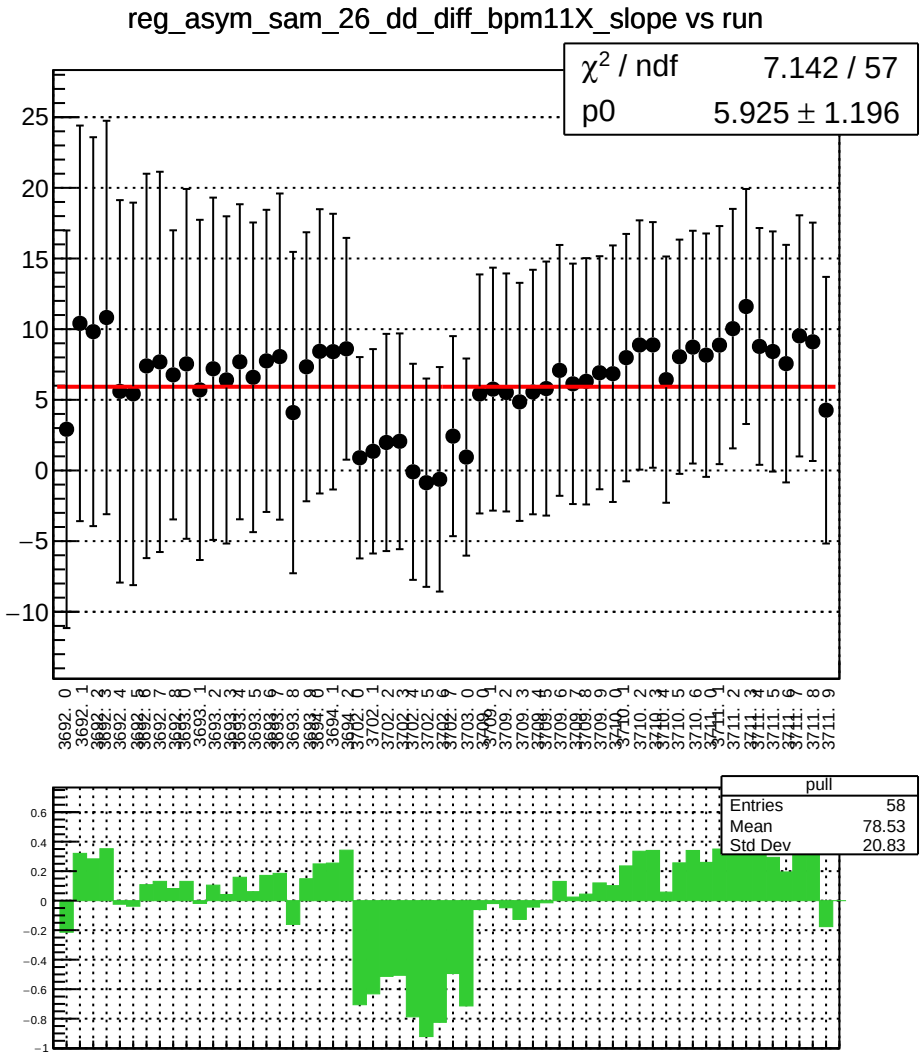

pull1D
Entries 58
Mean −0.006506
Std Dev 0.3307

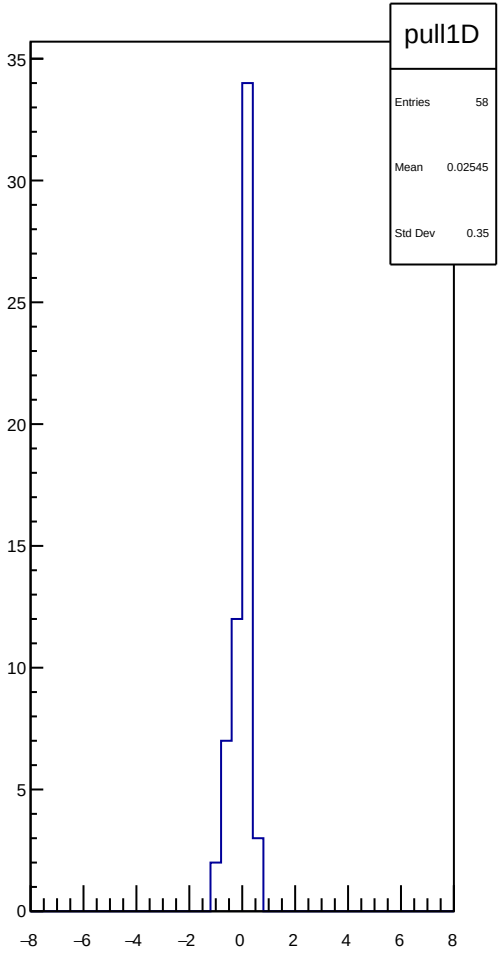

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.901 / 57
p0 −345.6 ± 6.19
pull
Entries 58
Mean 316.5
Std Dev 290.8
pull1D
Entries 58
Mean 0.009202
Std Dev 0.2905

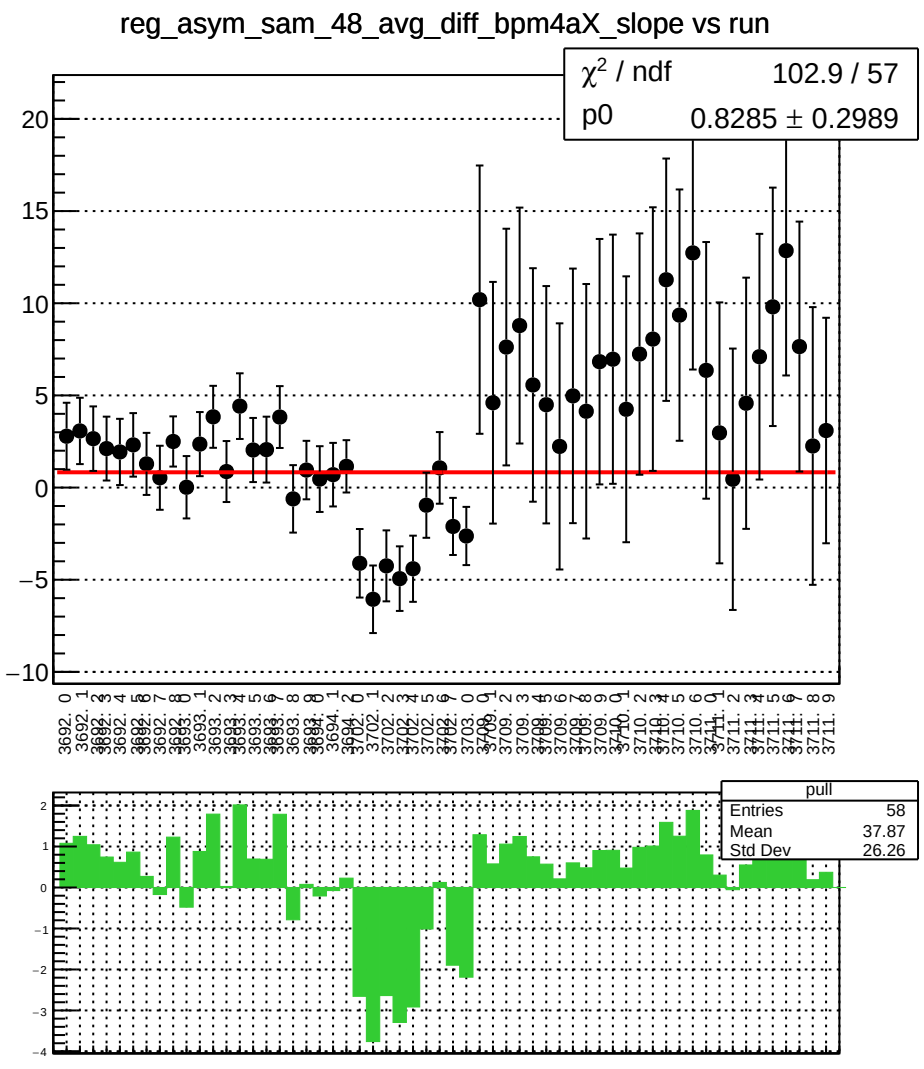

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.64 / 57
p0 −549.4 ± 1.55
−530
−540
−550
−560
−570
−580
pull
Entries 58
Mean 479.2
Std Dev 447.5
1
0.5
0
−0.5
−1
pull1D
Entries 58
Mean 0.00563
Std Dev 0.448
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

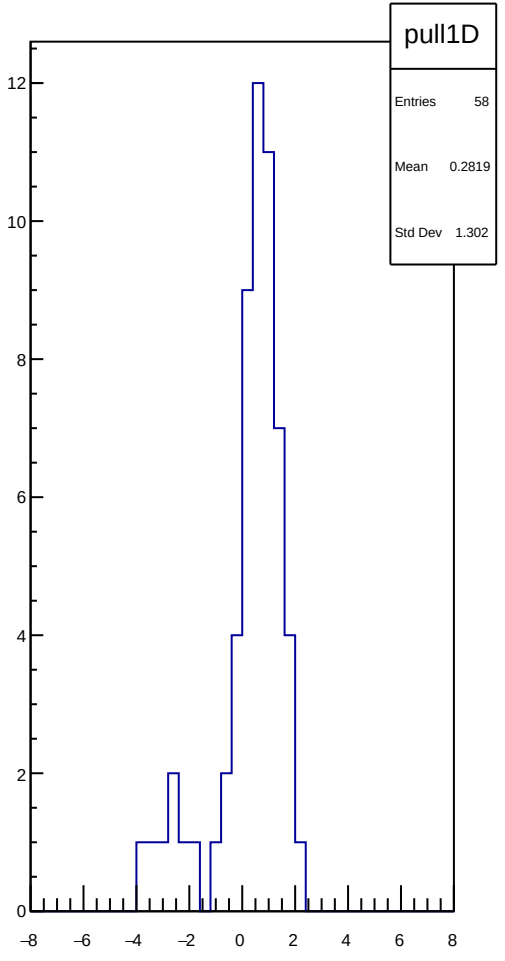

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.815 / 57
p0 156.7 ± 9.685
250
200
150
100
50
pull
Entries 58
Mean 347.2
Std Dev 322.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

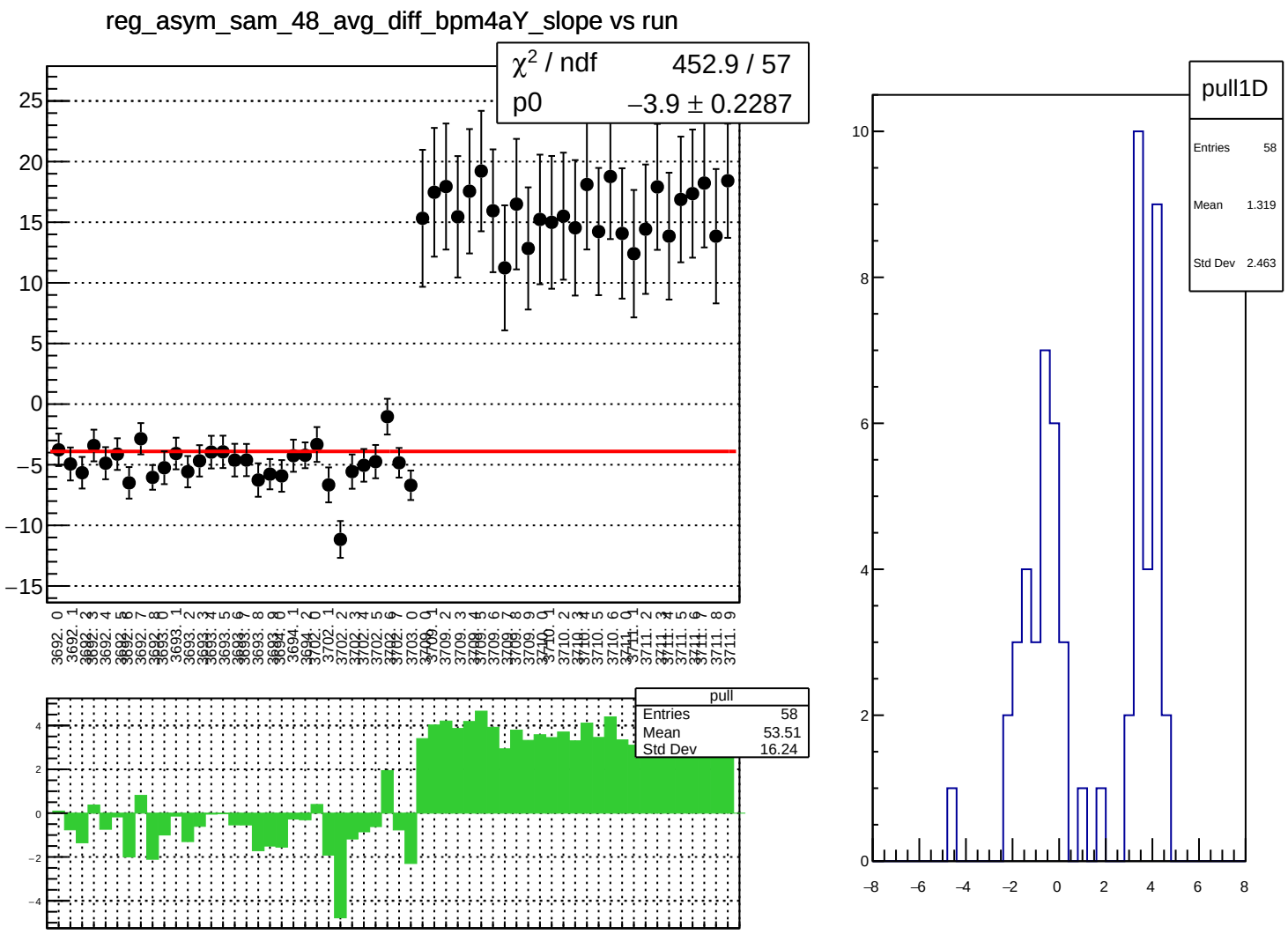

pull1D
Entries 58
Mean −0.006519
Std Dev 0.2881
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

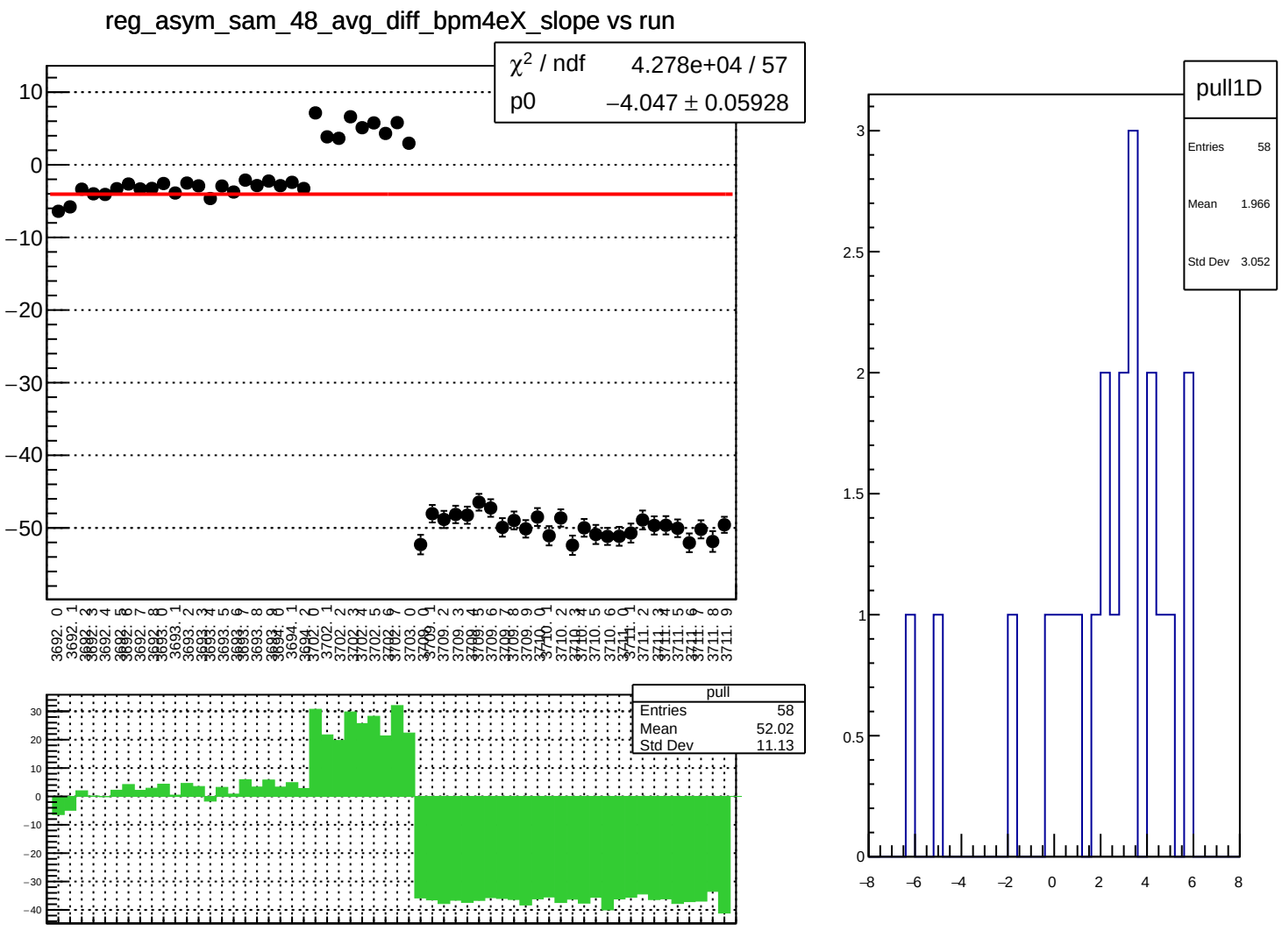

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 7.142 / 57
p0 5.925 ± 1.196
pull
Entries 58
Mean 78.53
Std Dev 20.83

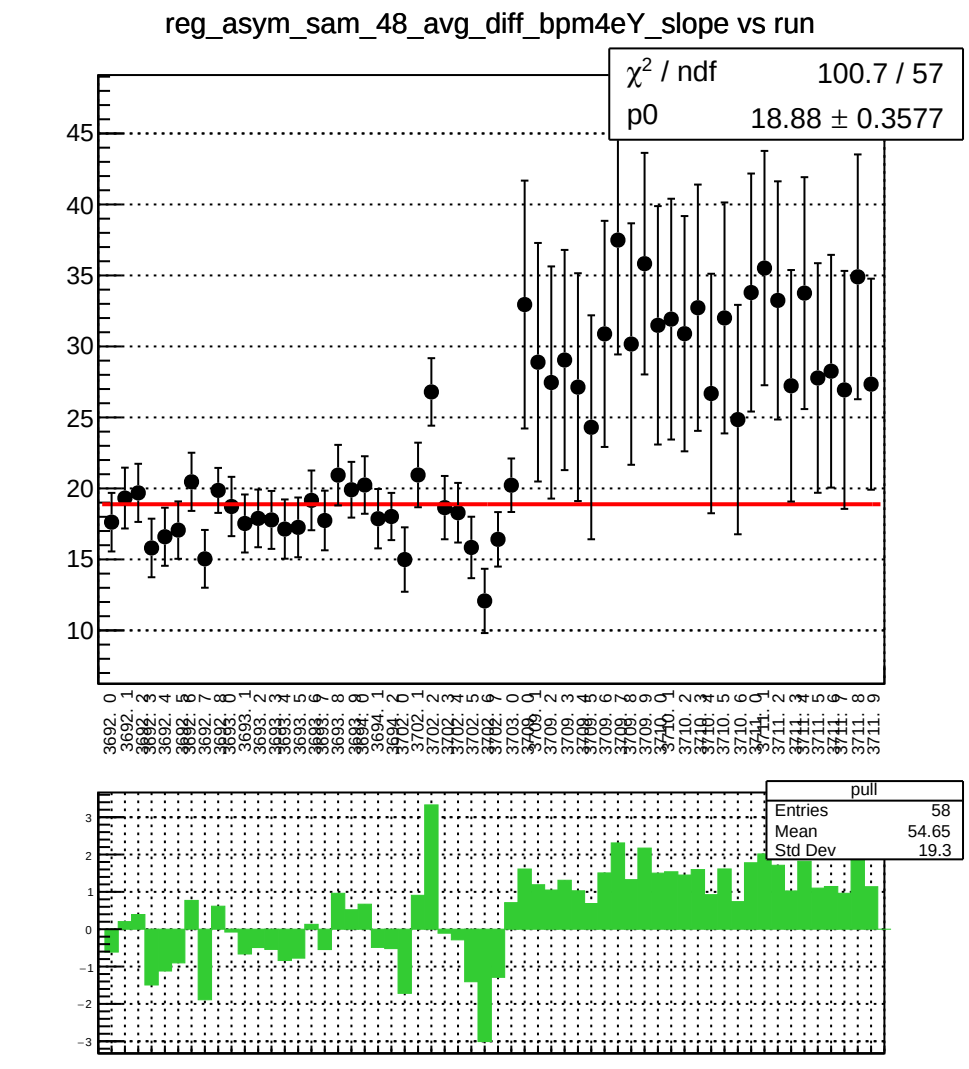

pull1D
Entries 58
Mean 0.02545
Std Dev 0.35

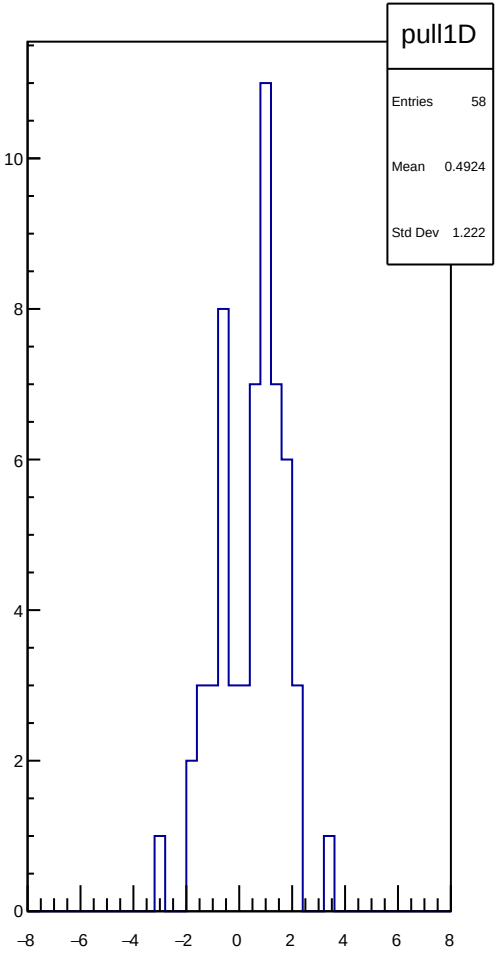

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 102.9 / 57
p0 0.8285 ± 0.2989
pull
Entries 58
Mean 37.87
Std Dev 26.26

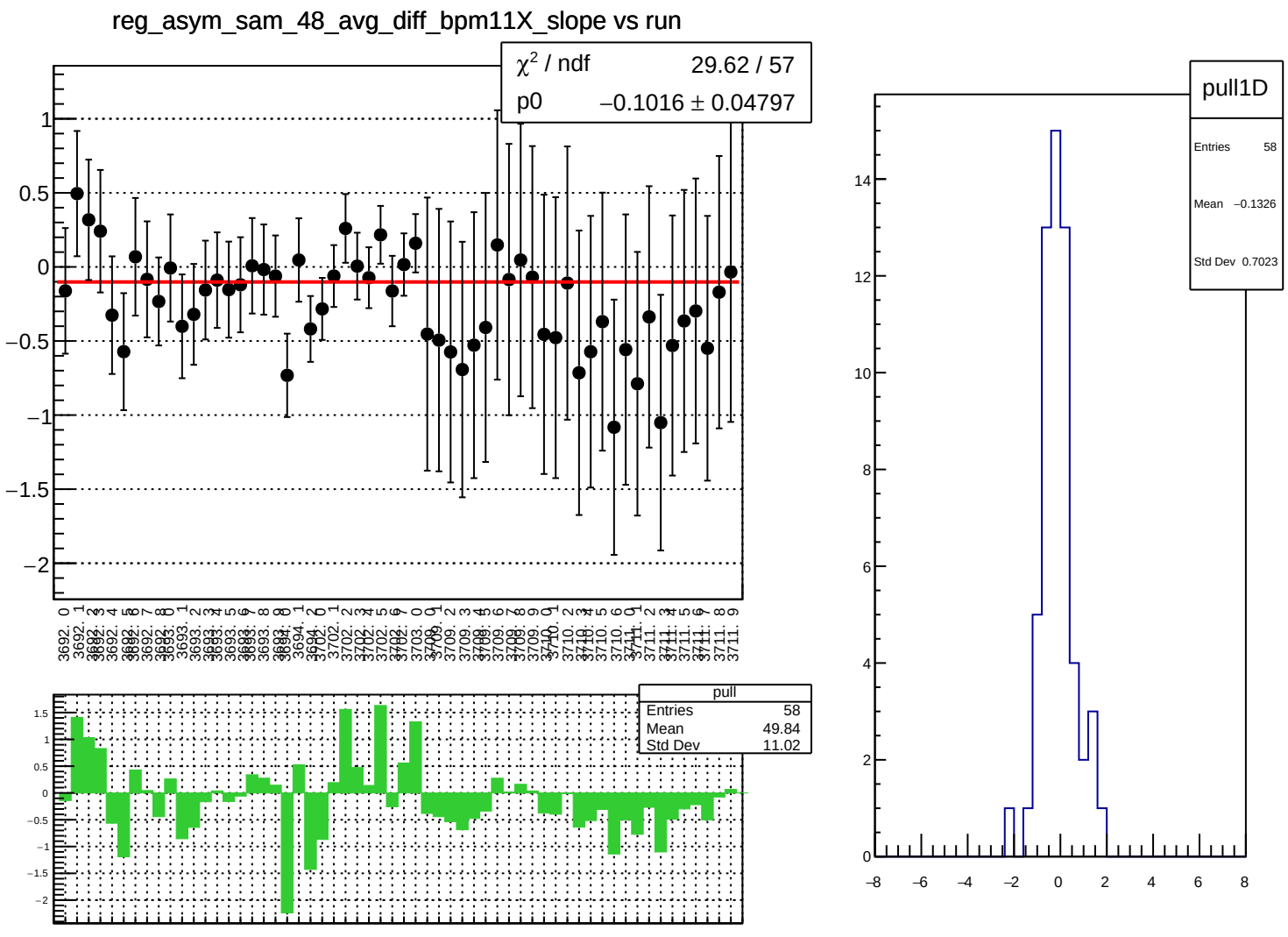

pull1D
Entries 58
Mean 0.2819
Std Dev 1.302

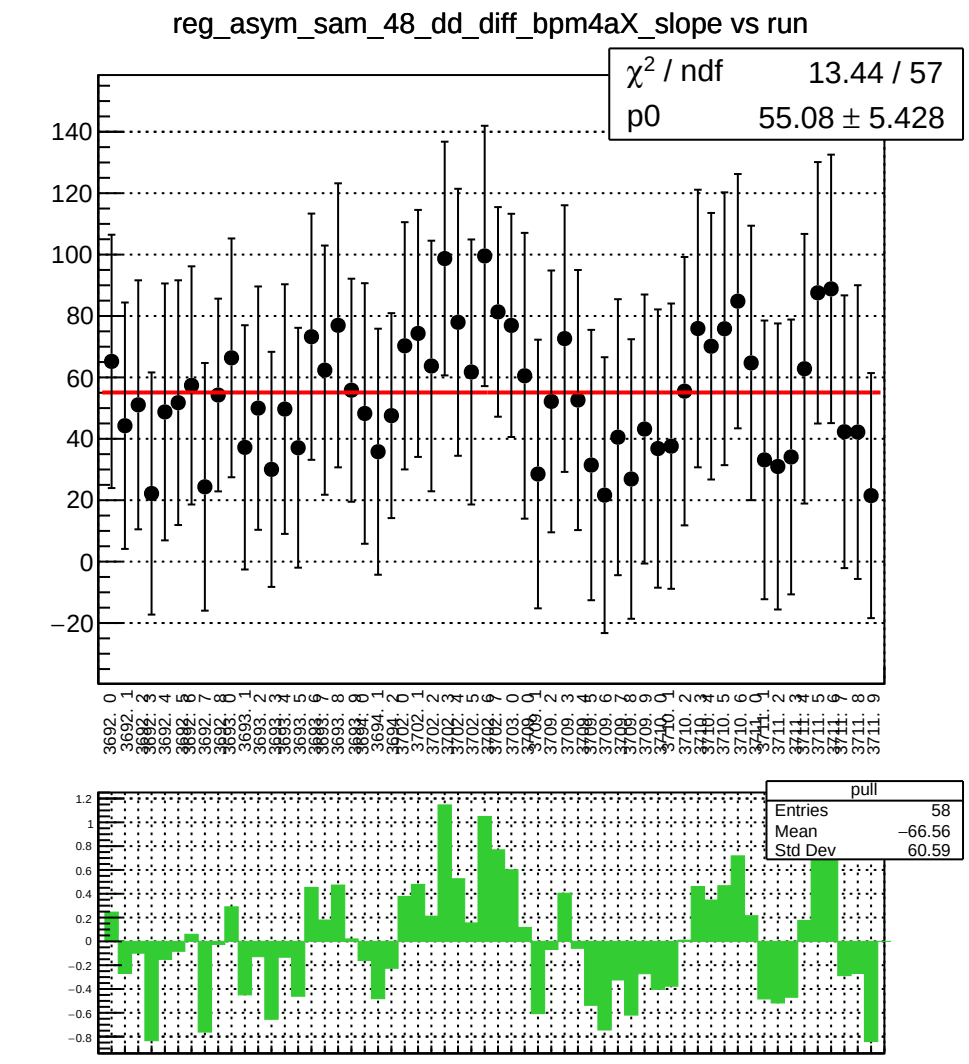

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 452.9 / 57
p0 −3.9 ± 0.2287
pull
Entries 58
Mean 53.51
Std Dev 16.24
pull1D
Entries 58
Mean 1.319
Std Dev 2.463

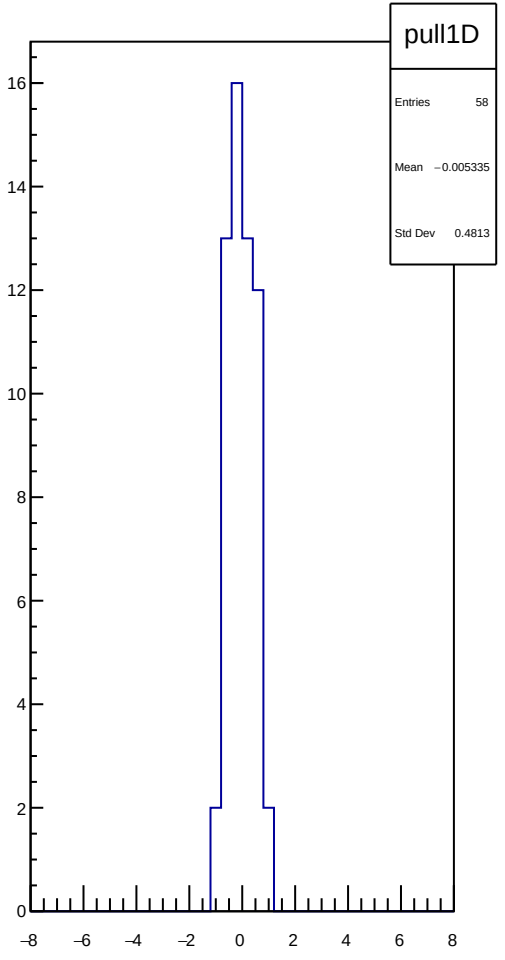

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.278e+04 / 57
p0 −4.047 ± 0.05928
pull
Entries 58
Mean 52.02
Std Dev 11.13
pull1D
Entries 58
Mean 1.966
Std Dev 3.052

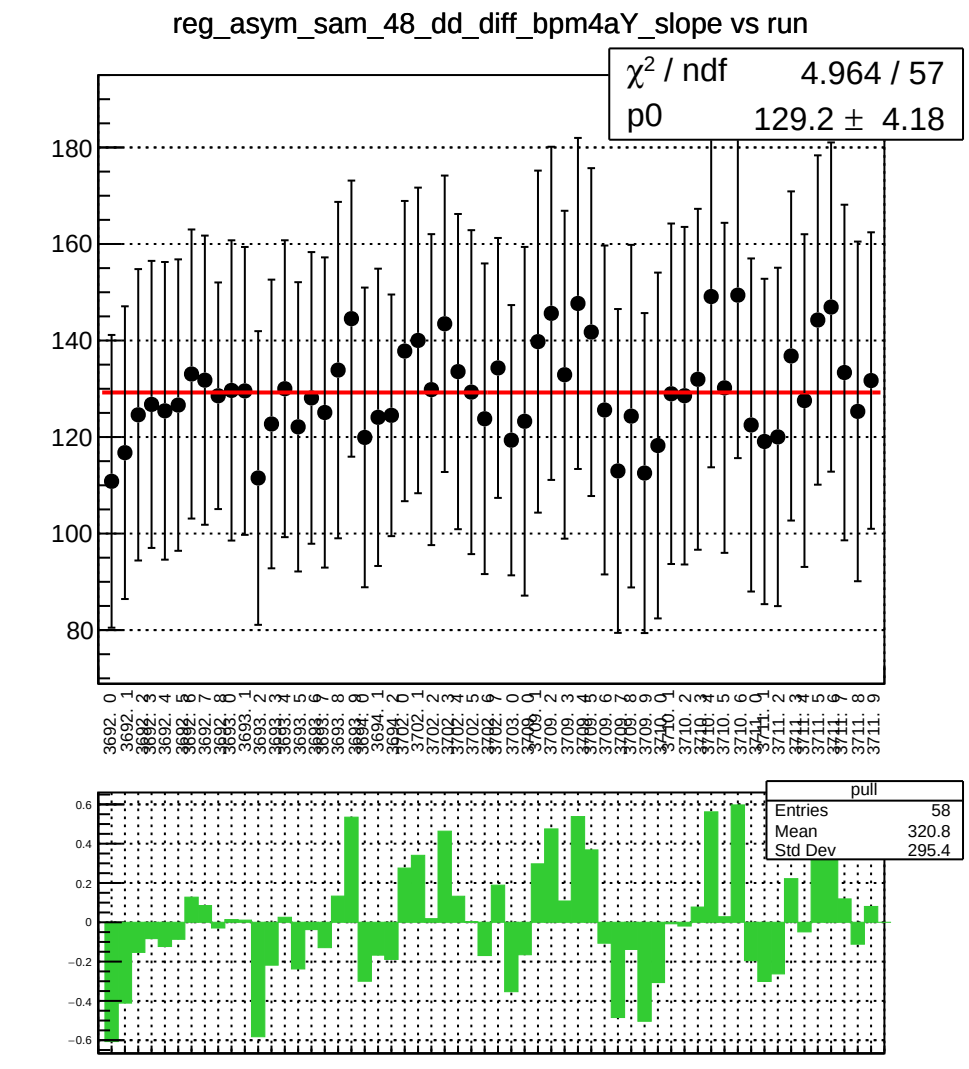

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 100.7 / 57
p0 18.88 ± 0.3577
pull
Entries 58
Mean 54.65
Std Dev 19.3

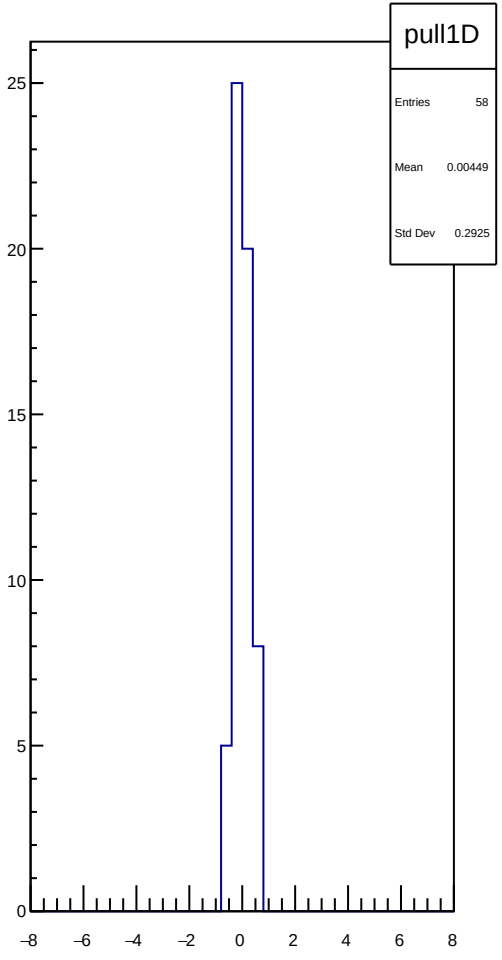

pull1D
Entries 58
Mean 0.4924
Std Dev 1.222

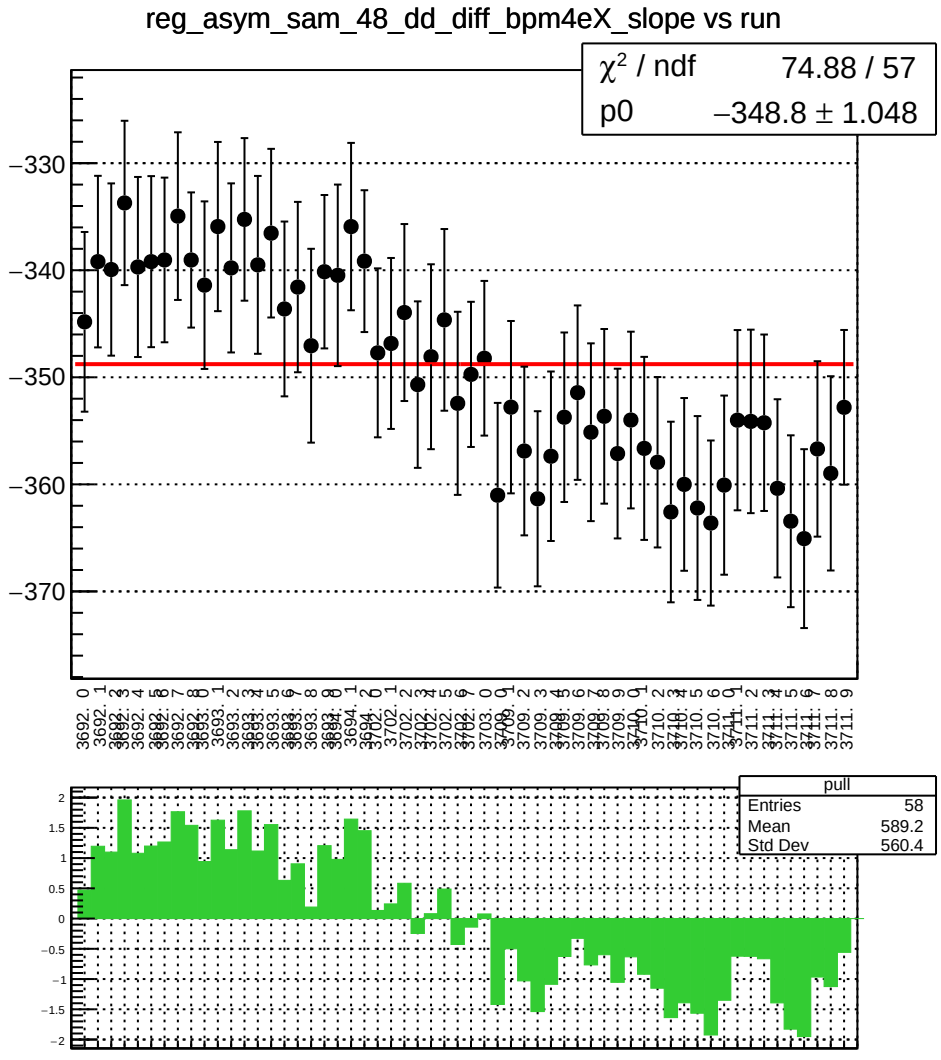

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 29.62 / 57
p0 −0.1016 ± 0.04797
pull
Entries 58
Mean 49.84
Std Dev 11.02
pull1D
Entries 58
Mean −0.1326
Std Dev 0.7023

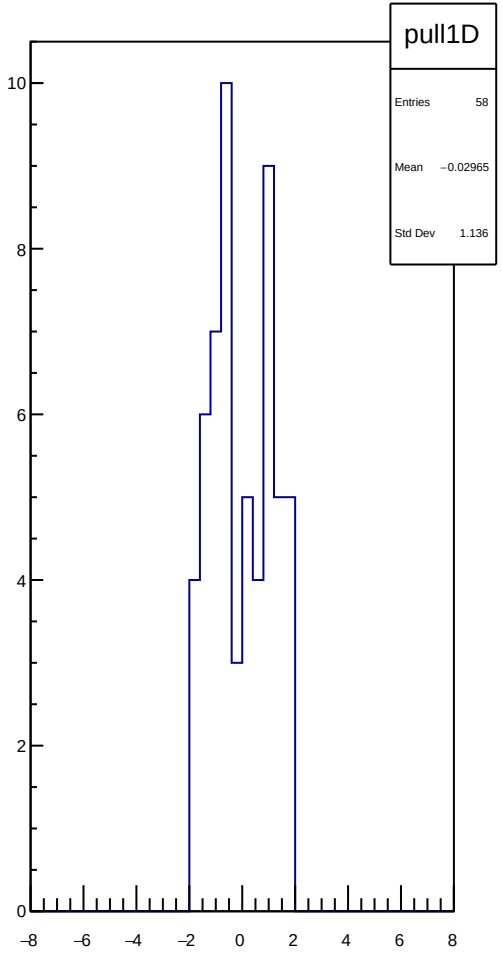

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.44 / 57
p0 55.08 ± 5.428
pull
Entries 58
Mean −66.56
Std Dev 60.59

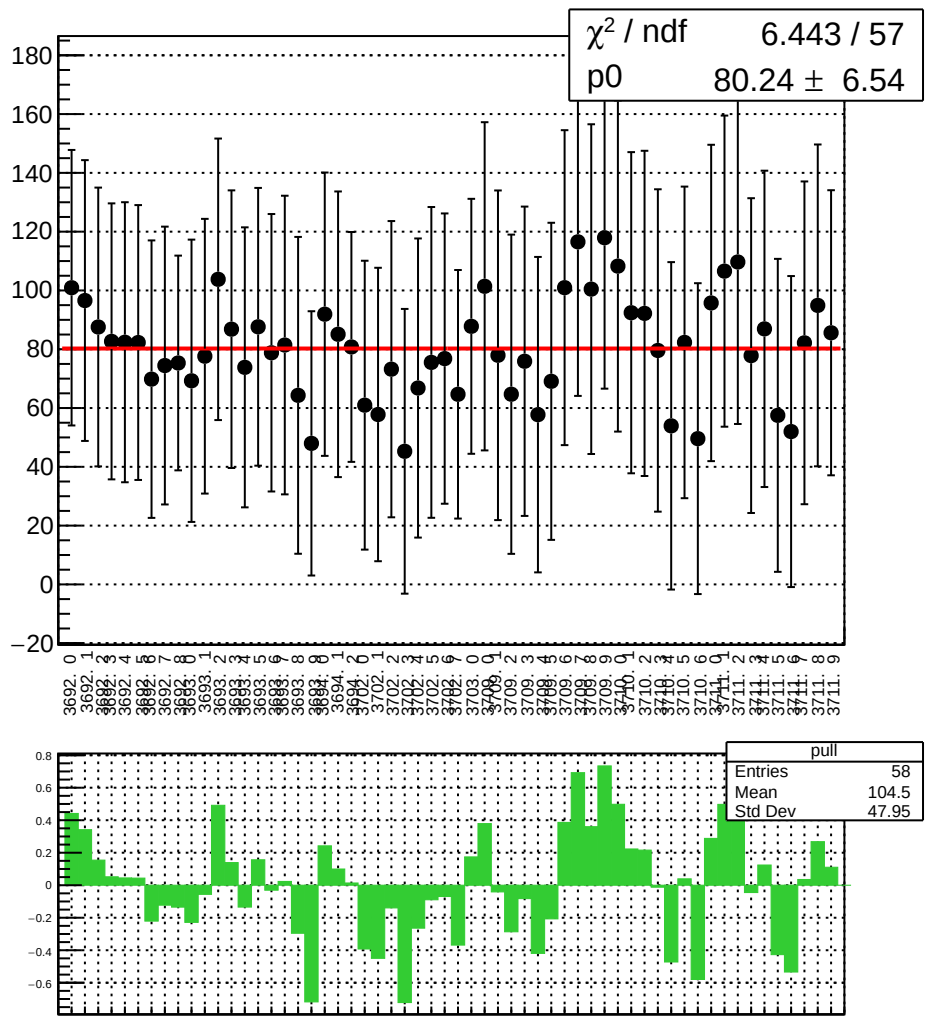

pull1D
Entries 58
Mean −0.005335
Std Dev 0.4813

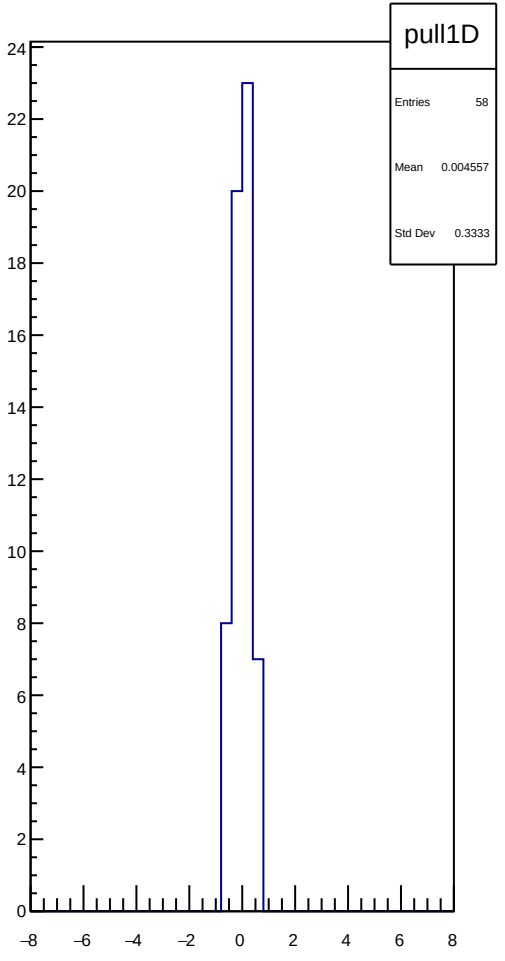

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.964 / 57
p0 129.2 ± 4.18
pull
Entries 58
Mean 320.8
Std Dev 295.4

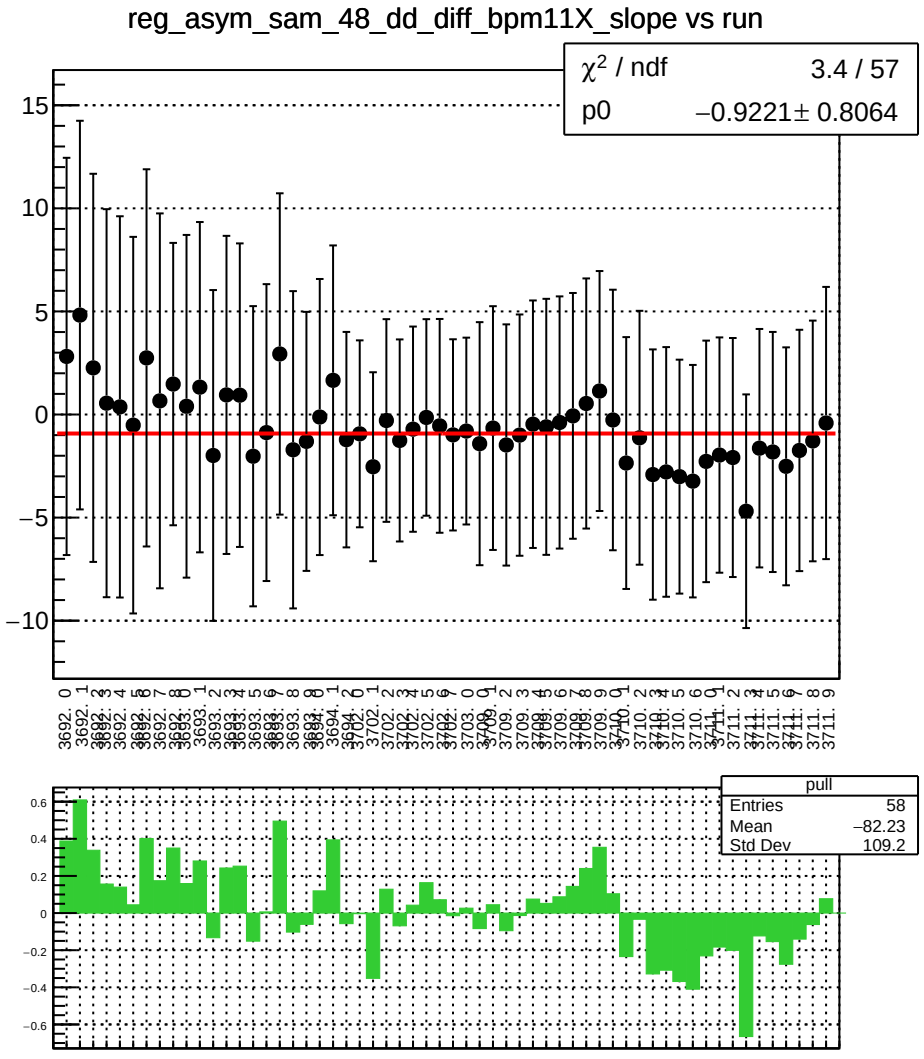

pull1D
Entries 58
Mean 0.00449
Std Dev 0.2925

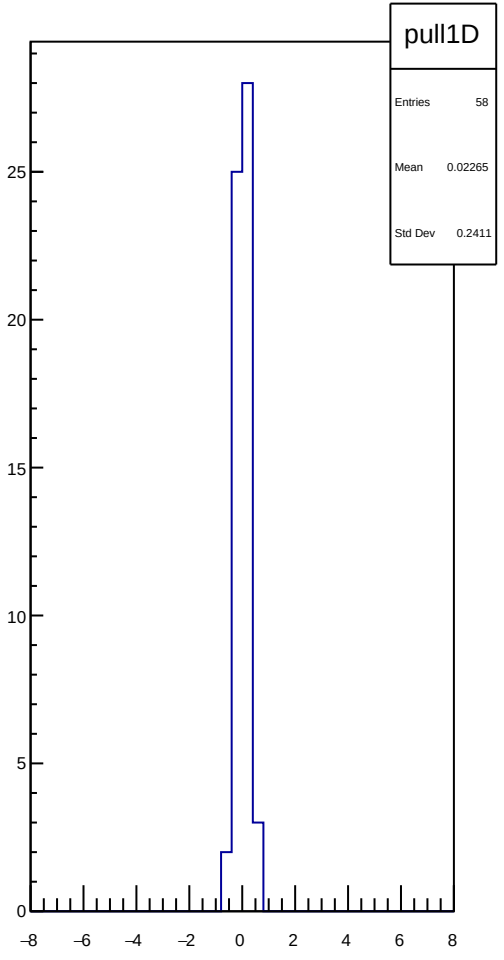

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.88 / 57
p0 −348.8 ± 1.048
pull
Entries 58
Mean 589.2
Std Dev 560.4

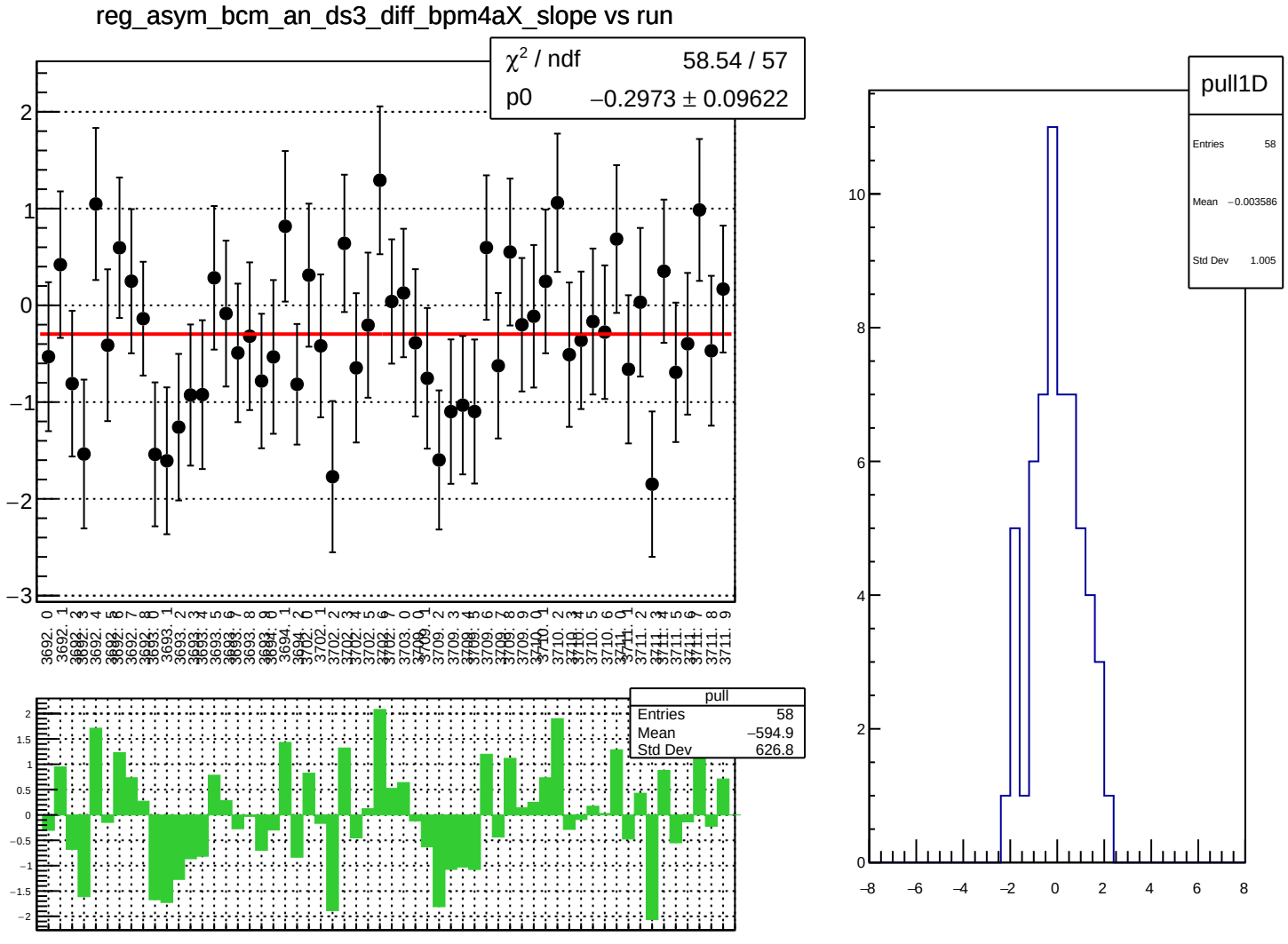

pull1D
Entries 58
Mean −0.02965
Std Dev 1.136

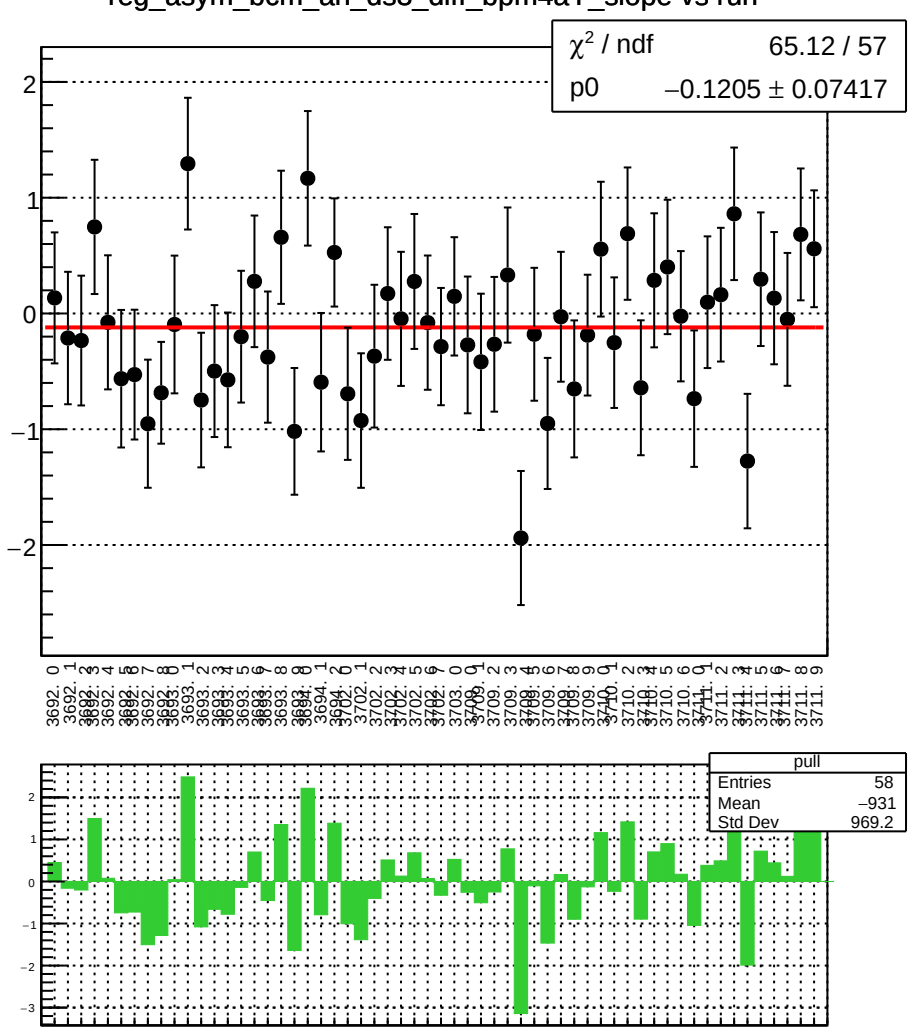

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.443 / 57
p0 80.24 ± 6.54
pull
Entries 58
Mean 104.5
Std Dev 47.95

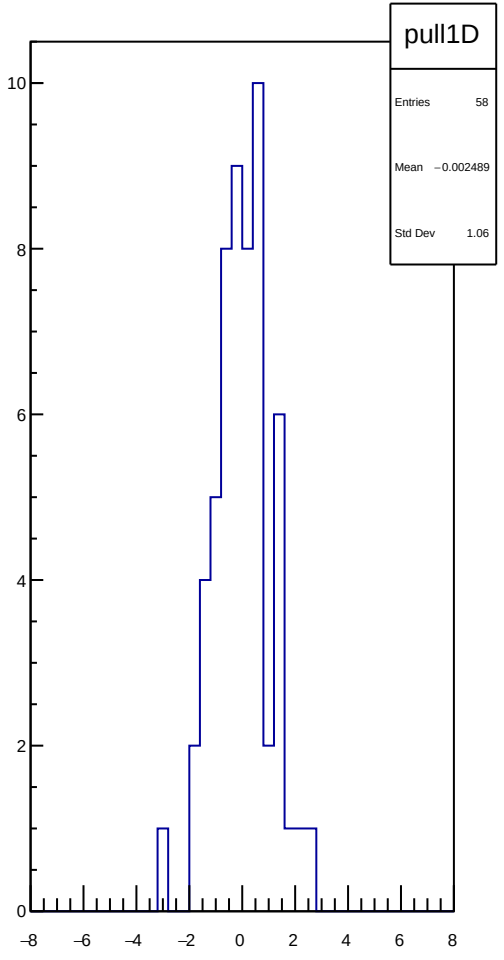

pull1D
Entries 58
Mean 0.004557
Std Dev 0.3333

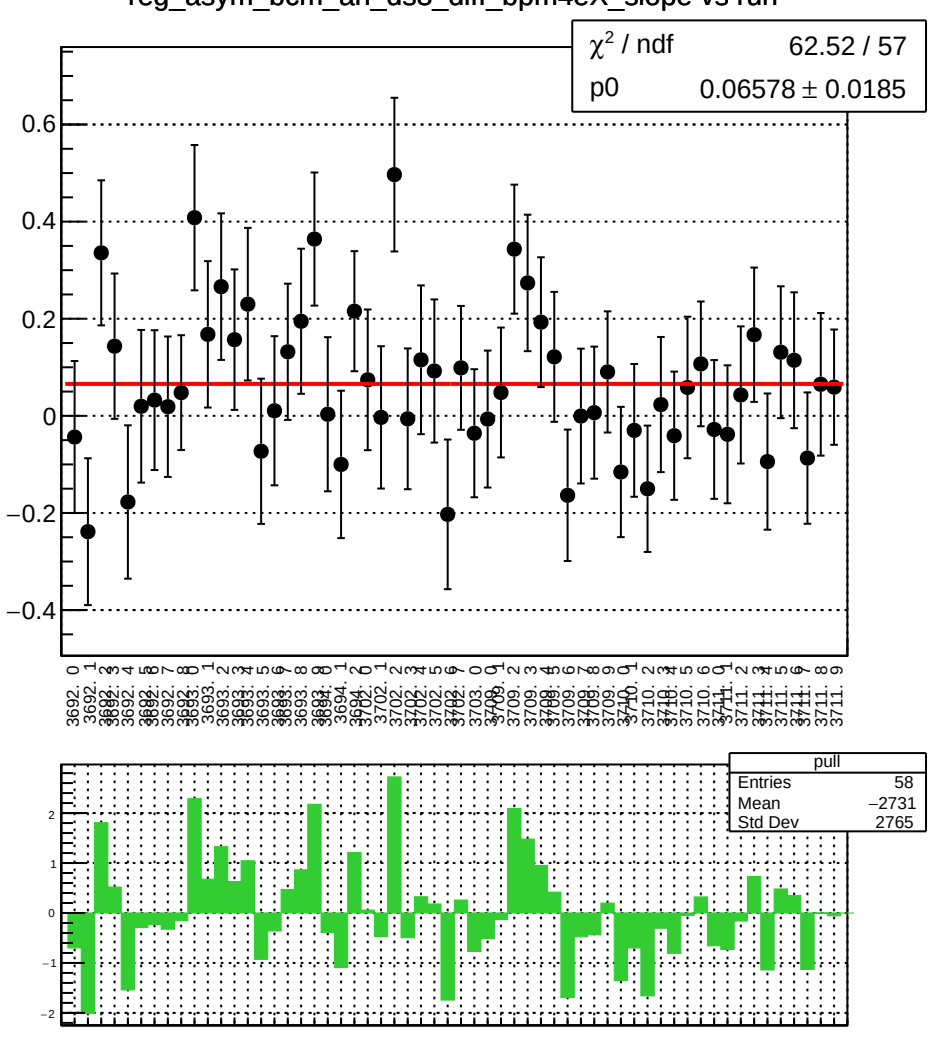

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 3.4 / 57
p0 −0.9221± 0.8064
pull
Entries 58
Mean −82.23
Std Dev 109.2

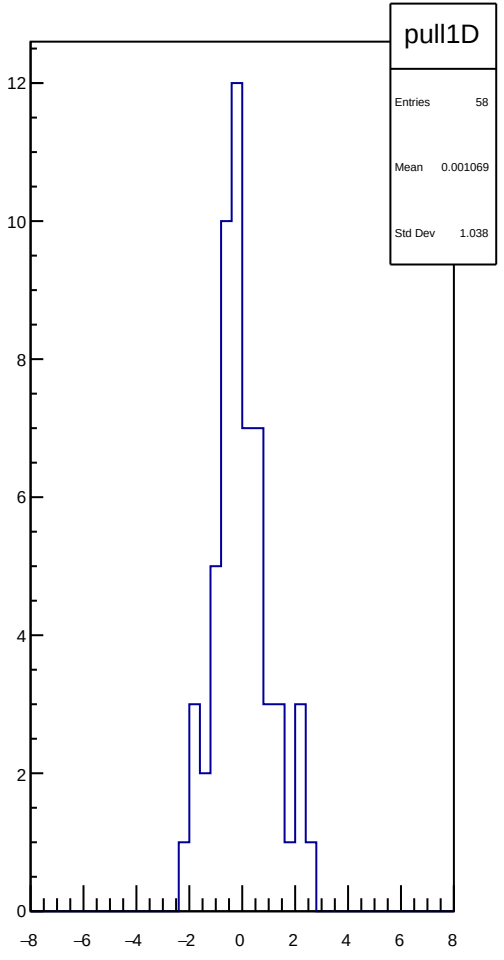

pull1D
Entries 58
Mean 0.02265
Std Dev 0.2411

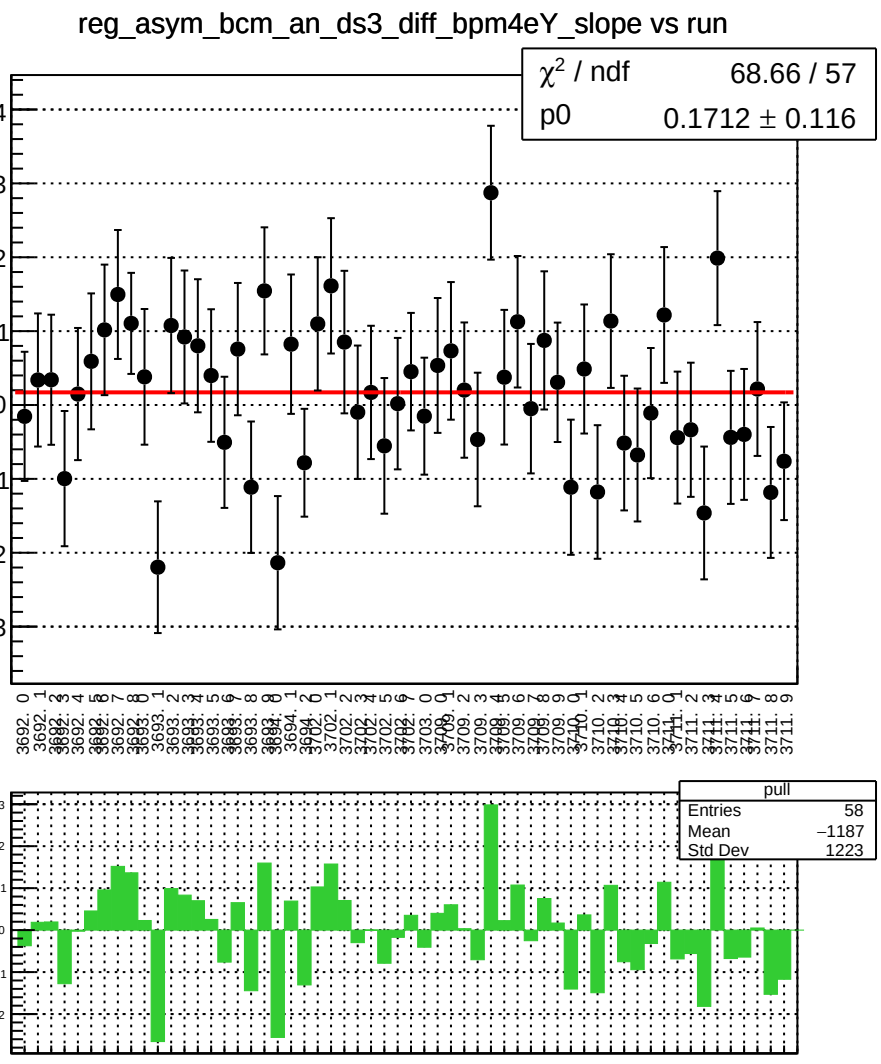

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 58.54 / 57
p0 −0.2973 ± 0.09622
pull
Entries 58
Mean −594.9
Std Dev 626.8
pull1D
Entries 58
Mean −0.003586
Std Dev 1.005

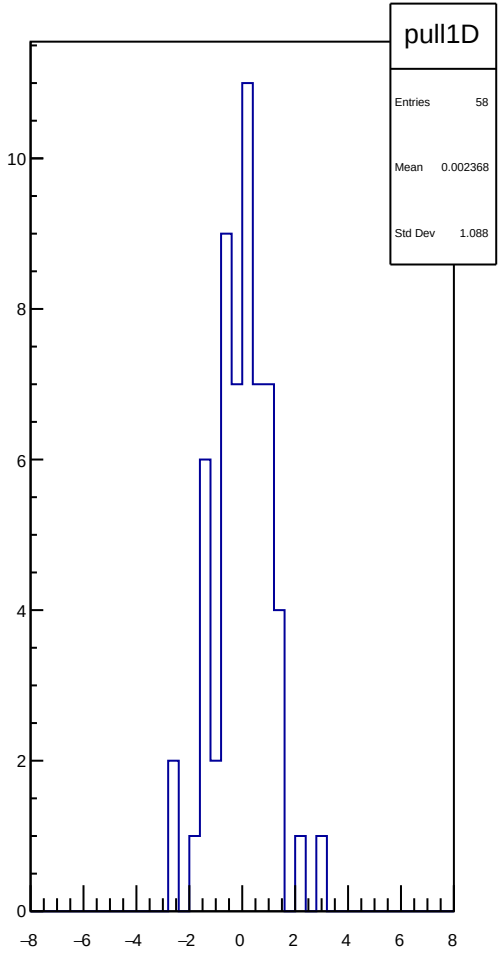

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 65.12 / 57
p0 −0.1205 ± 0.07417
pull
Entries 58
Mean −931
Std Dev 969.2

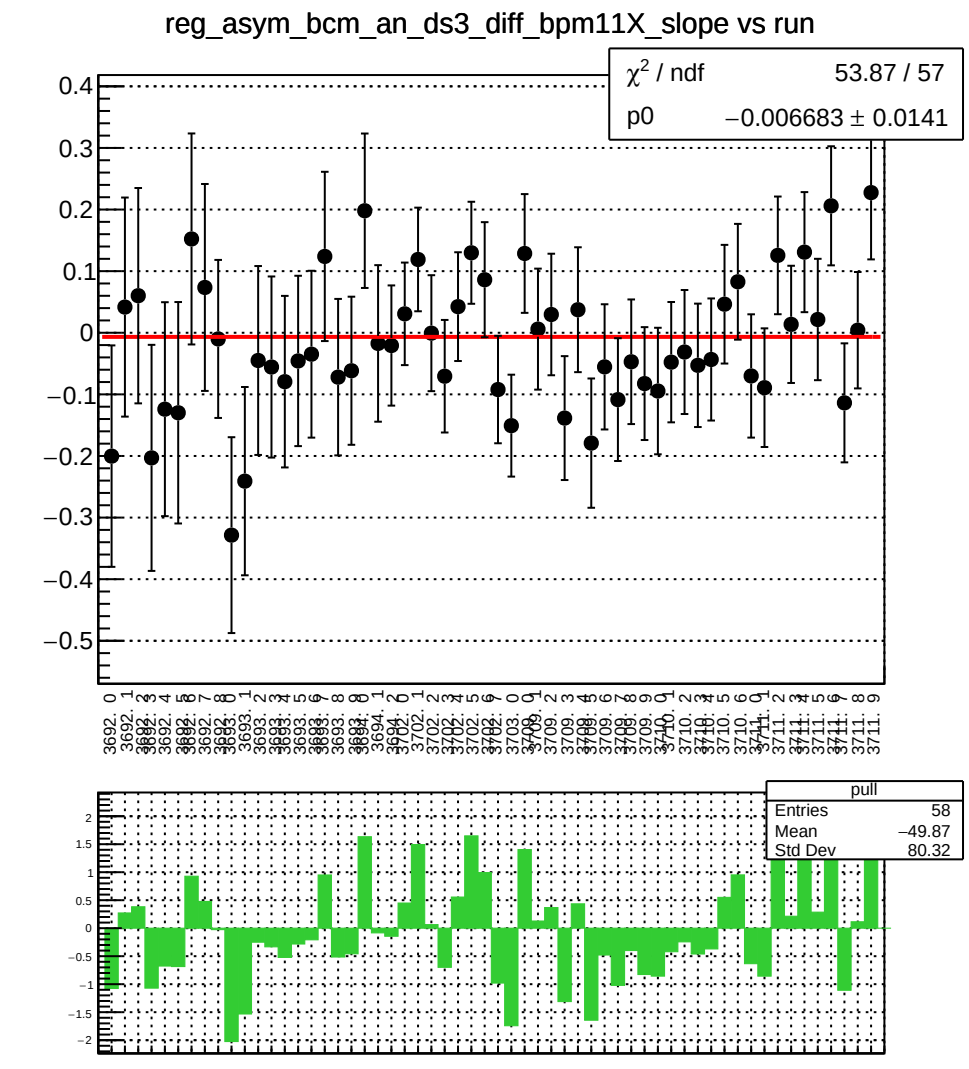

pull1D
Entries 58
Mean −0.002489
Std Dev 1.06

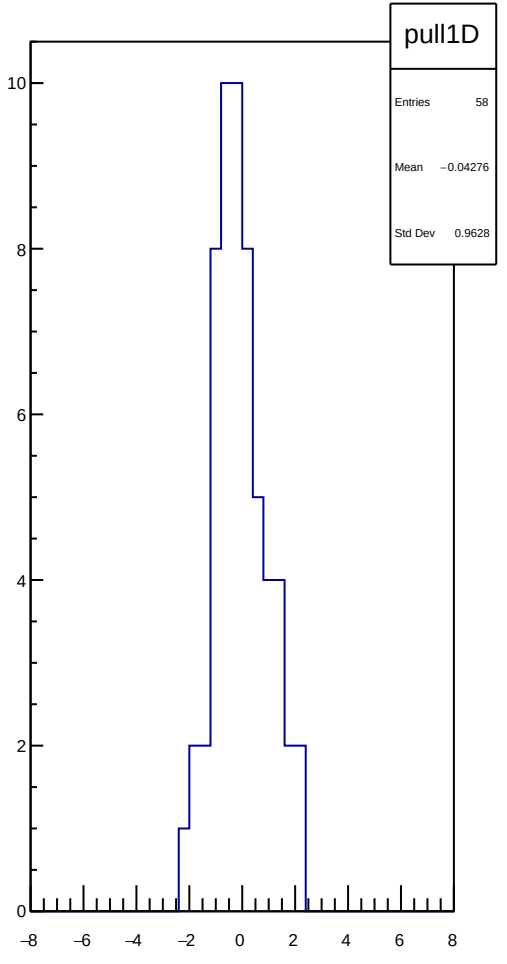

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 62.52 / 57
p0 0.06578 ± 0.0185
pull
Entries 58
Mean −2731
Std Dev 2765

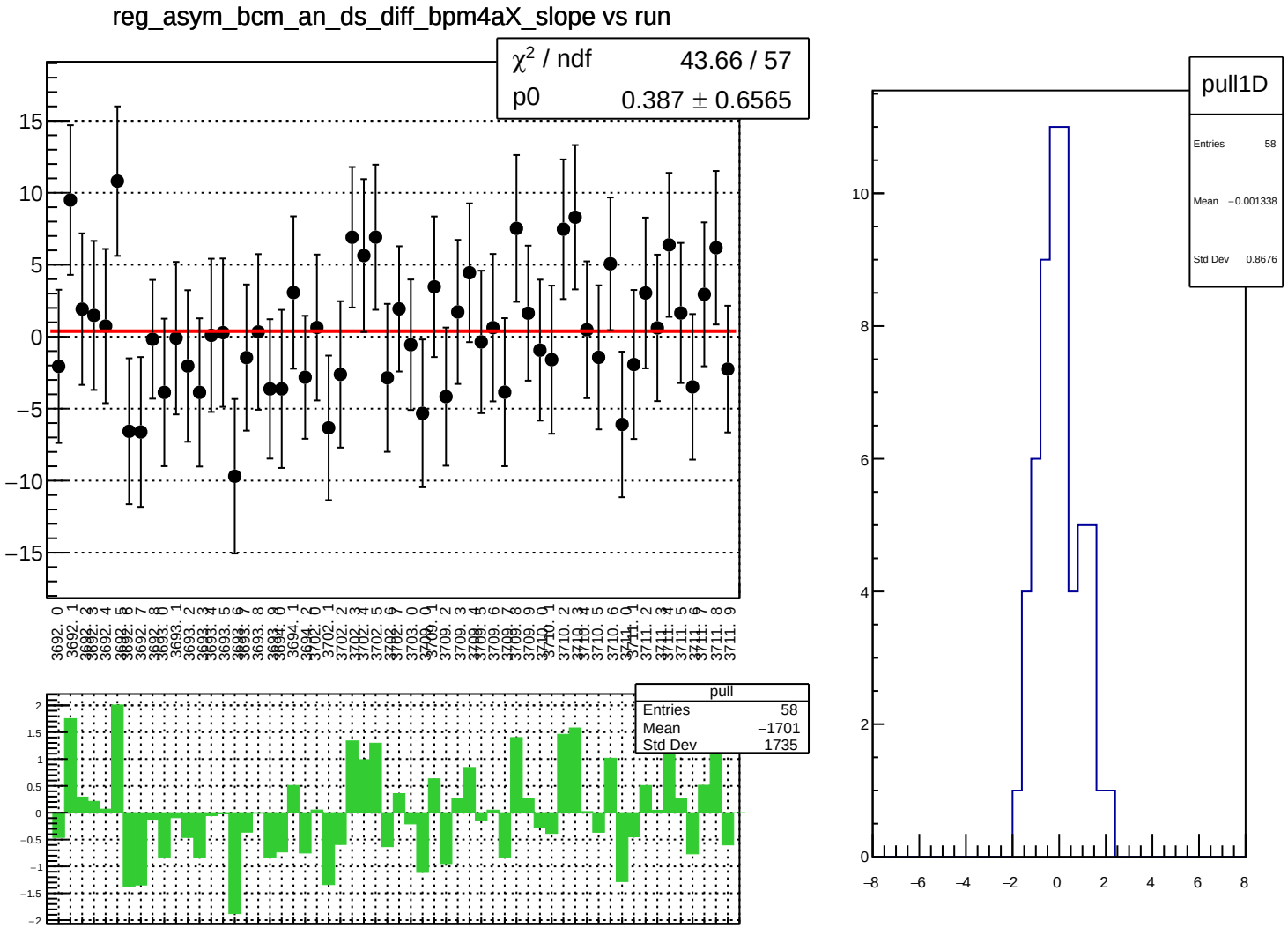

pull1D
Entries 58
Mean 0.001069
Std Dev 1.038

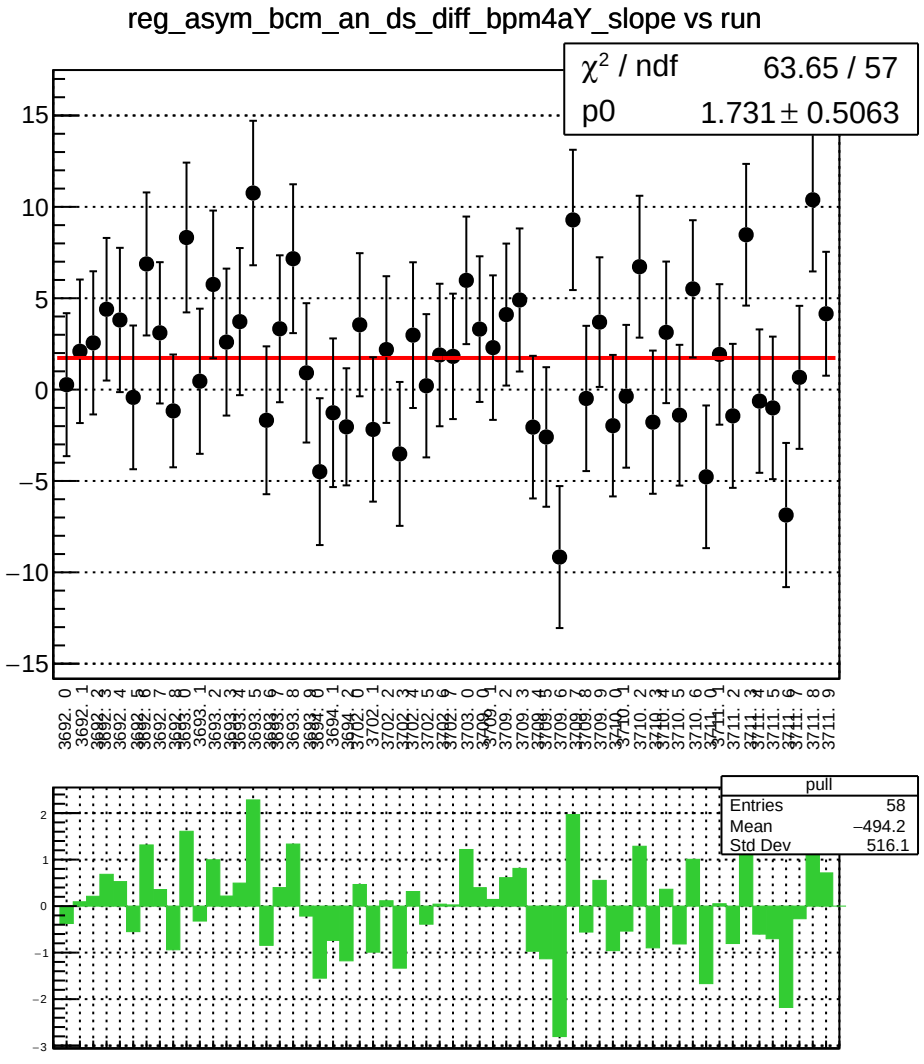

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 68.66 / 57
p0 0.1712 ± 0.116
pull
Entries 58
Mean −1187
Std Dev 1223

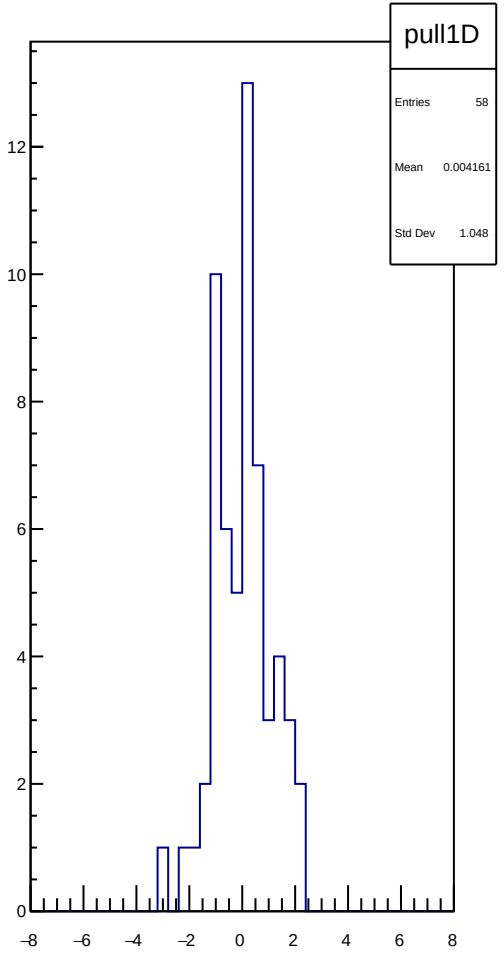

pull1D
Entries 58
Mean 0.002368
Std Dev 1.088

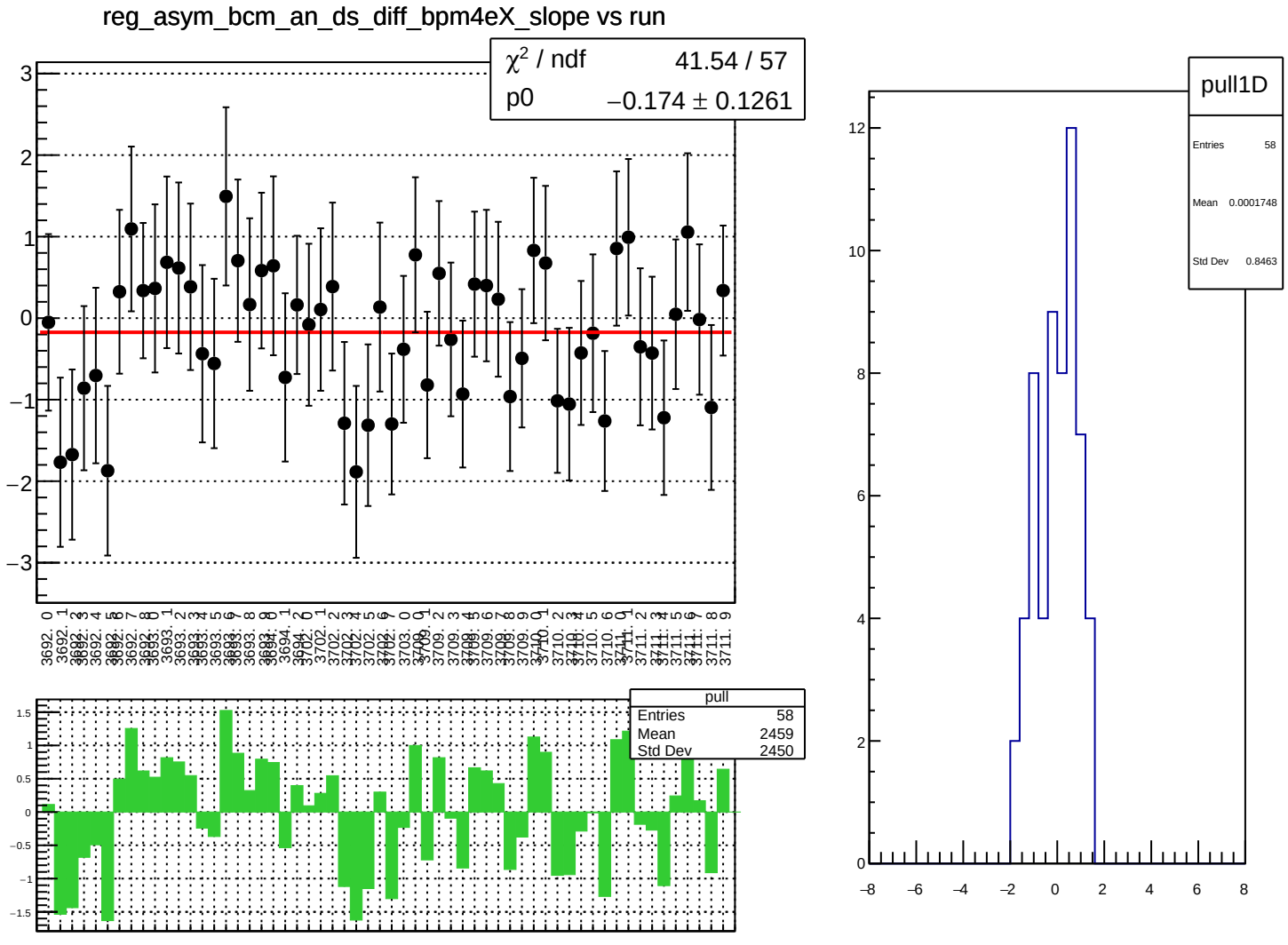

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 53.87 / 57
p0 −0.006683 ± 0.0141
pull
Entries 58
Mean −49.87
Std Dev 80.32

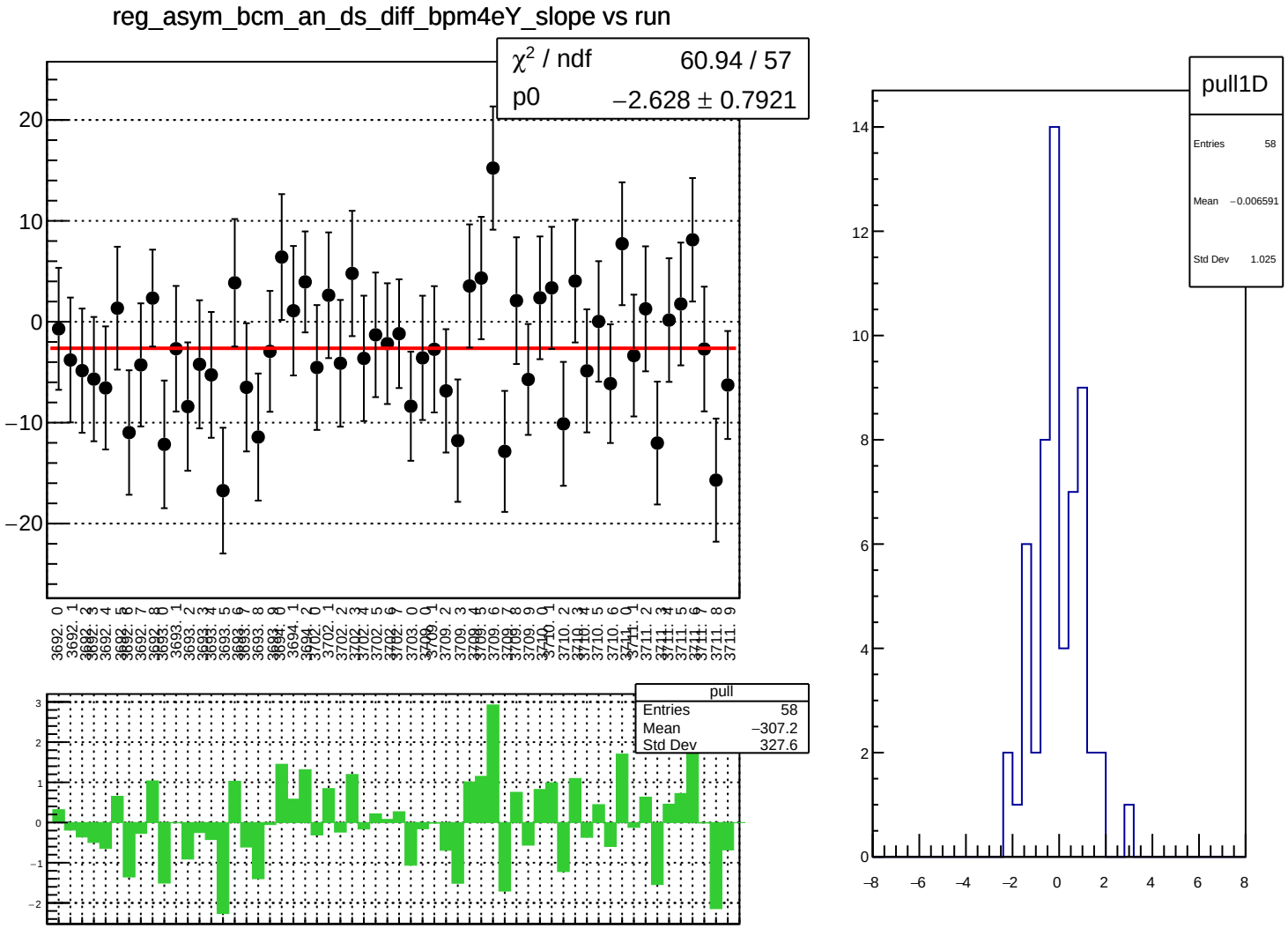

pull1D
Entries 58
Mean −0.04276
Std Dev 0.9628

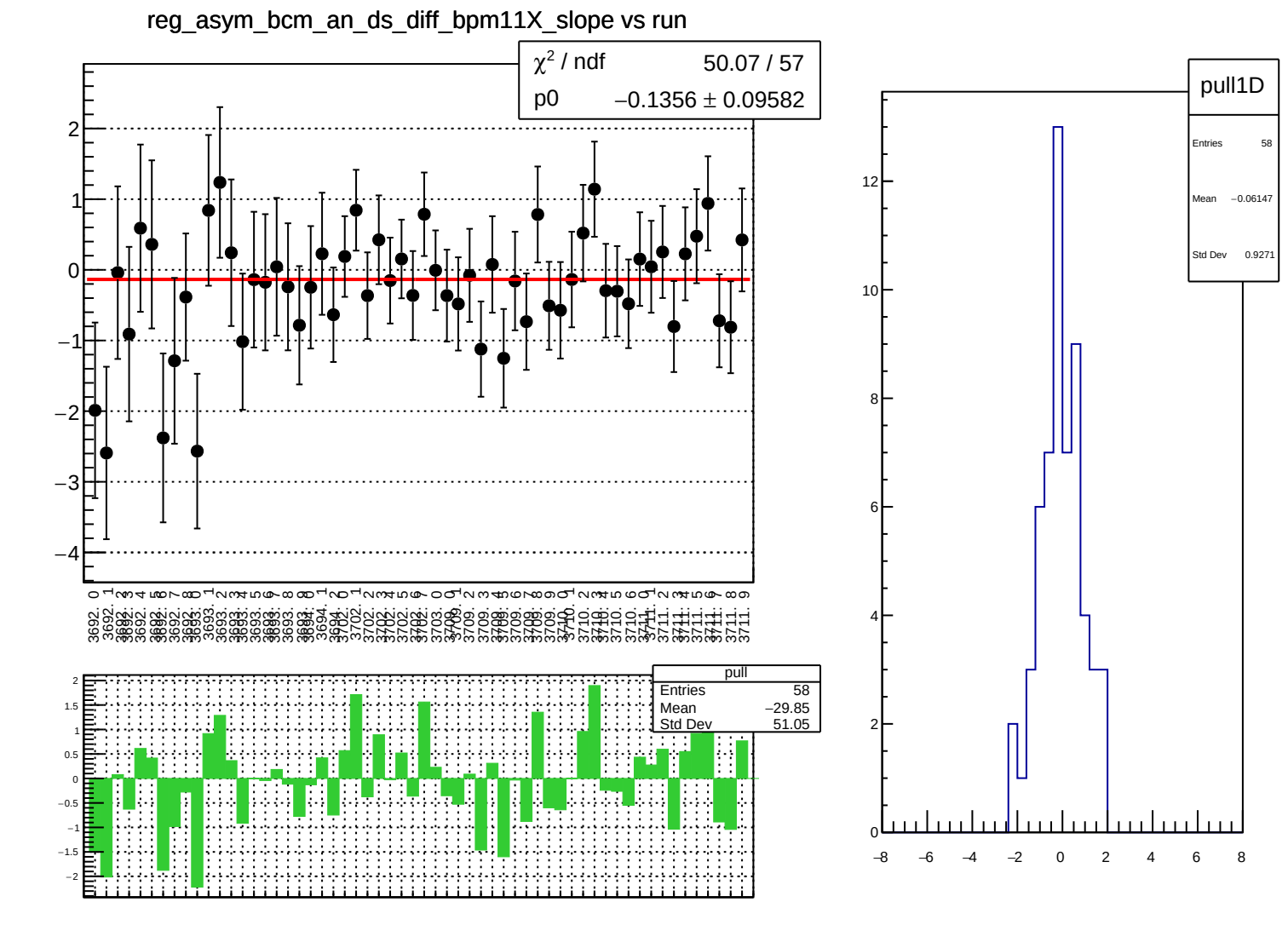

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 43.66 / 57
p0 0.387 ± 0.6565
pull
Entries 58
Mean −1701
Std Dev 1735
pull1D
Entries 58
Mean −0.001338
Std Dev 0.8676

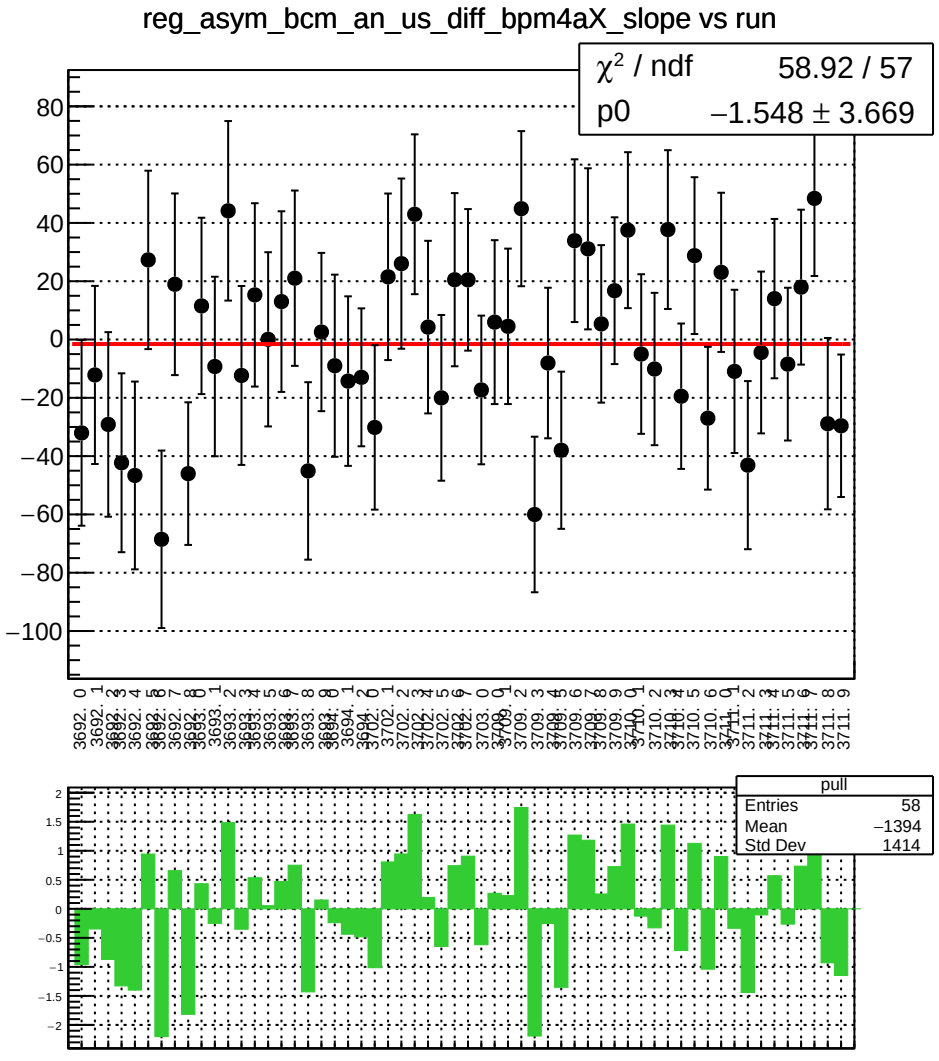

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 63.65 / 57
p0 1.731 ± 0.5063
pull
Entries 58
Mean −494.2
Std Dev 516.1

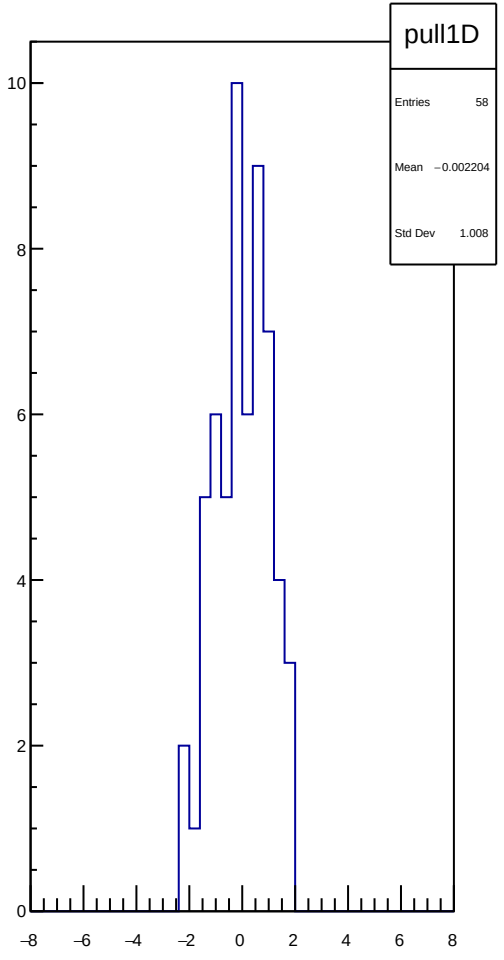

pull1D
Entries 58
Mean 0.004161
Std Dev 1.048

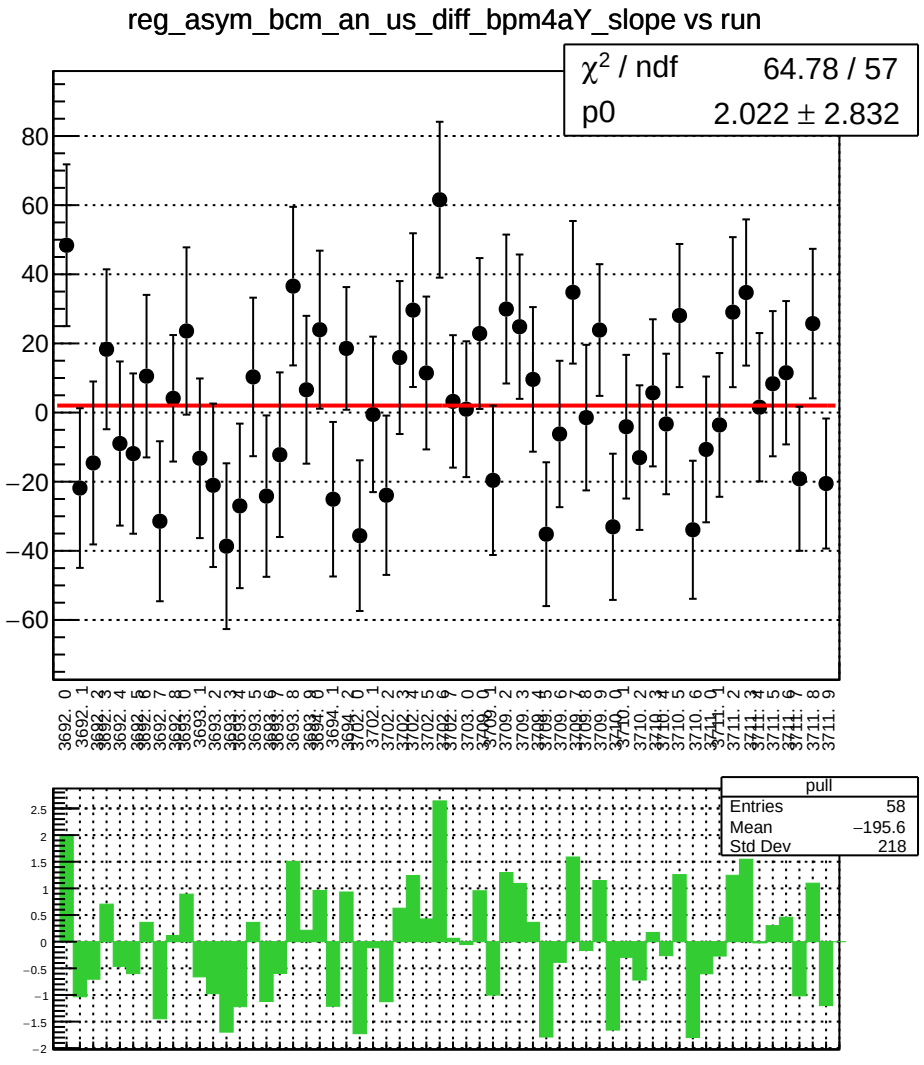

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 41.54 / 57
p0 −0.174 ± 0.1261
pull
Entries 58
Mean 2459
Std Dev 2450
pull1D
Entries 58
Mean 0.0001748
Std Dev 0.8463

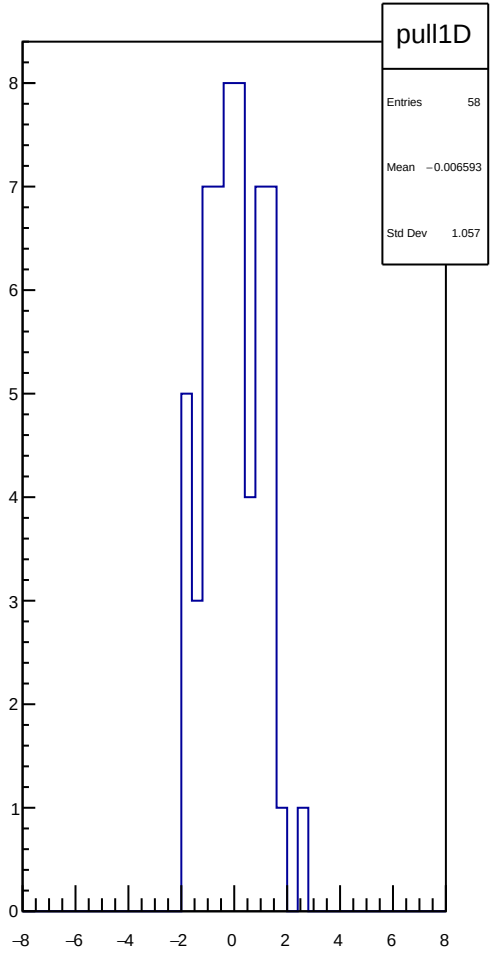

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 60.94 / 57
p0 −2.628 ± 0.7921
pull
Entries 58
Mean −307.2
Std Dev 327.6
pull1D
Entries 58
Mean −0.006591
Std Dev 1.025

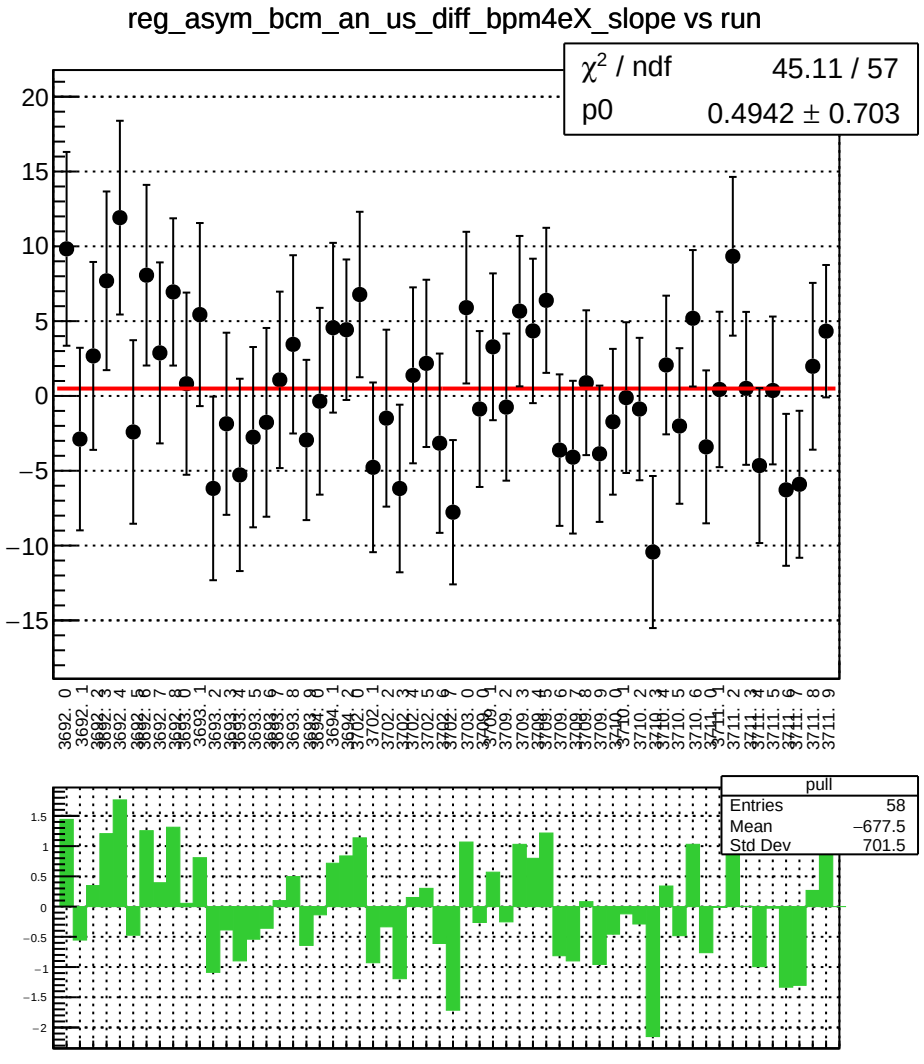

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 50.07 / 57
p0 −0.1356 ± 0.09582
pull
Entries 58
Mean −29.85
Std Dev 51.05
pull1D
Entries 58
Mean −0.06147
Std Dev 0.9271

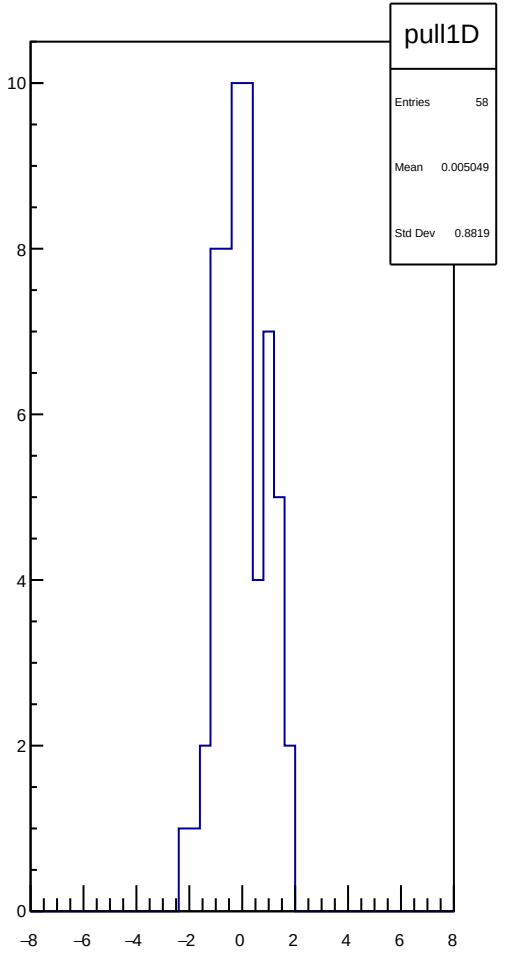

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 58.92 / 57
p0 −1.548 ± 3.669
pull
Entries 58
Mean −1394
Std Dev 1414

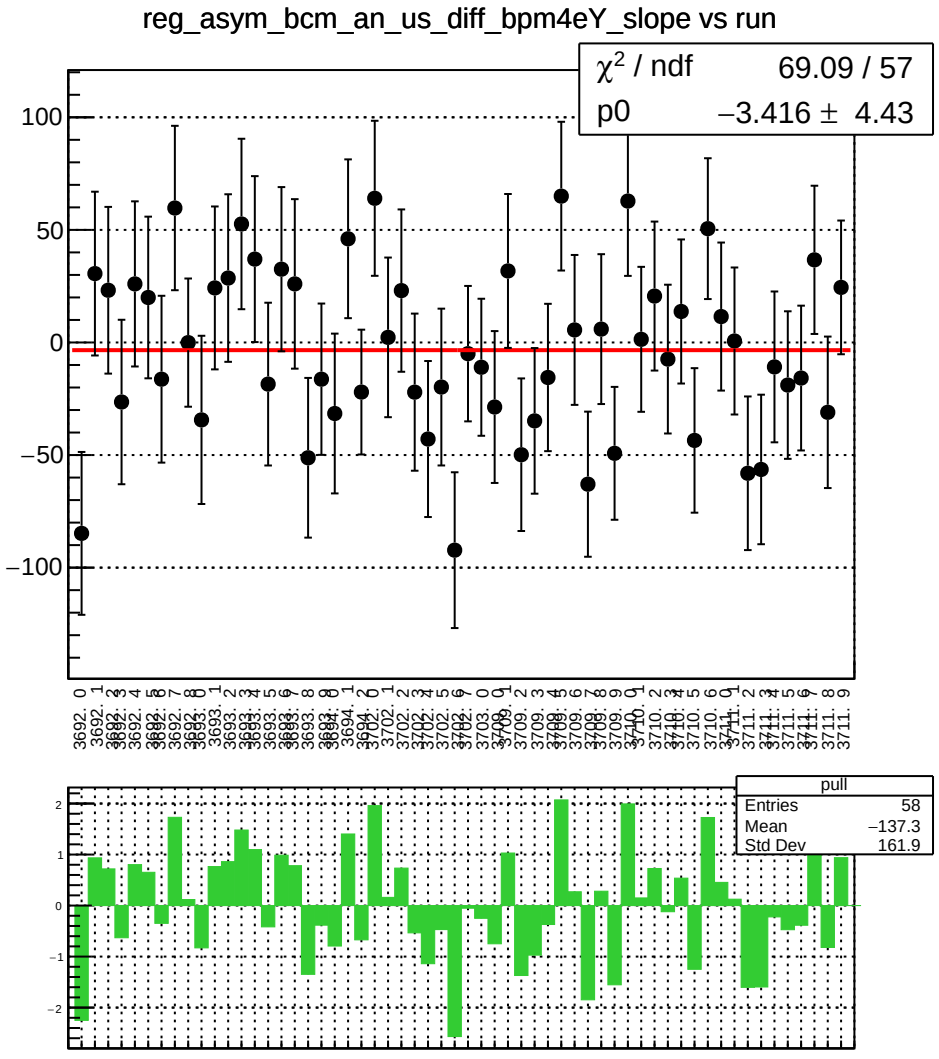

pull1D
Entries 58
Mean −0.002204
Std Dev 1.008

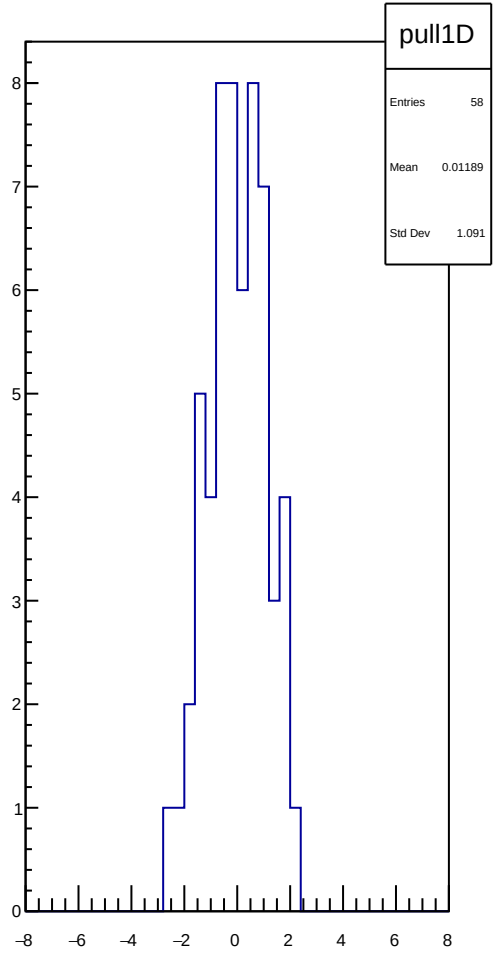

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 64.78 / 57
p0 2.022 ± 2.832
pull
Entries 58
Mean −195.6
Std Dev 218

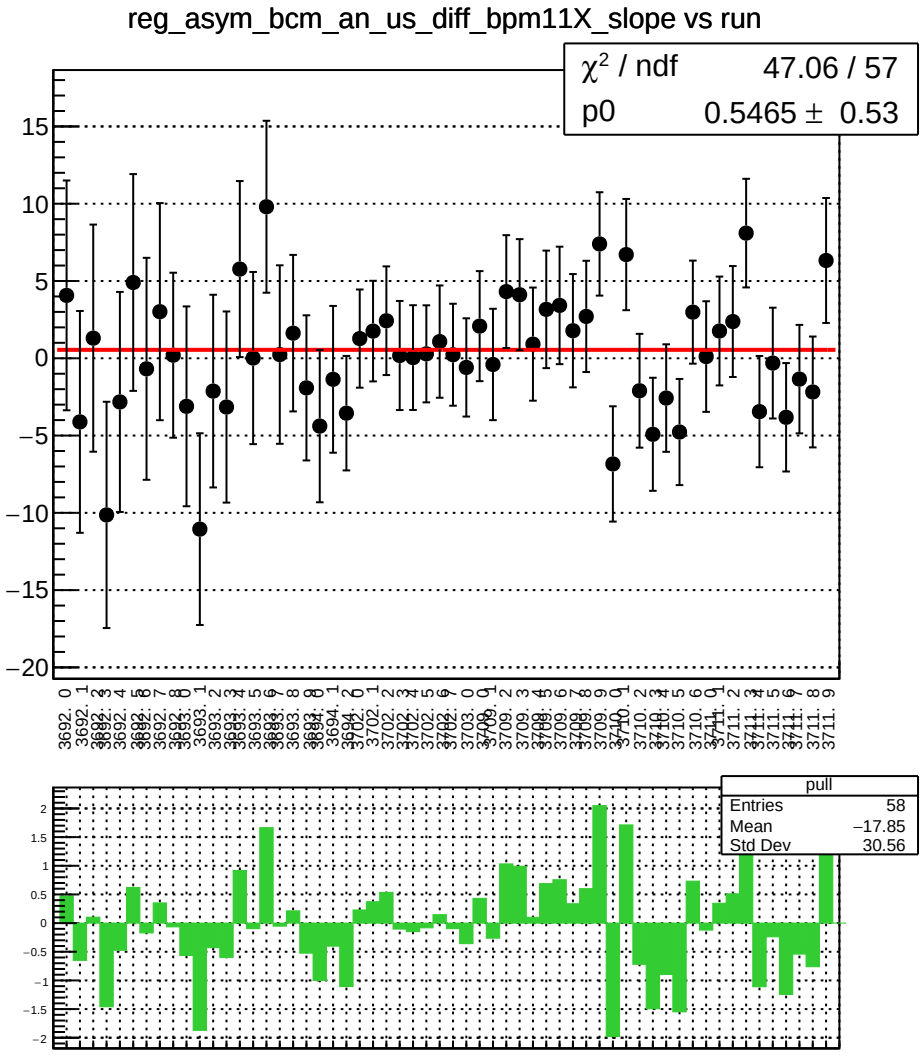

pull1D
Entries 58
Mean −0.006593
Std Dev 1.057

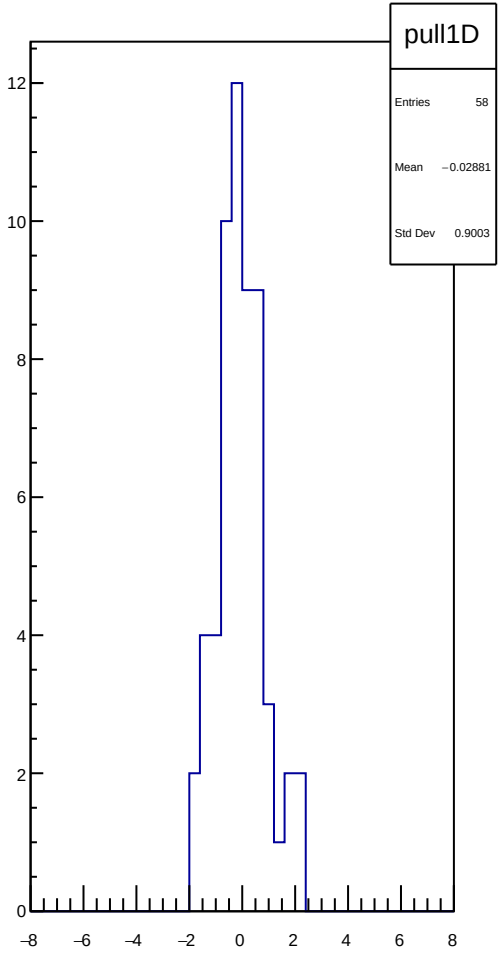

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 45.11 / 57
p0 0.4942 ± 0.703
pull
Entries 58
Mean −677.5
Std Dev 701.5

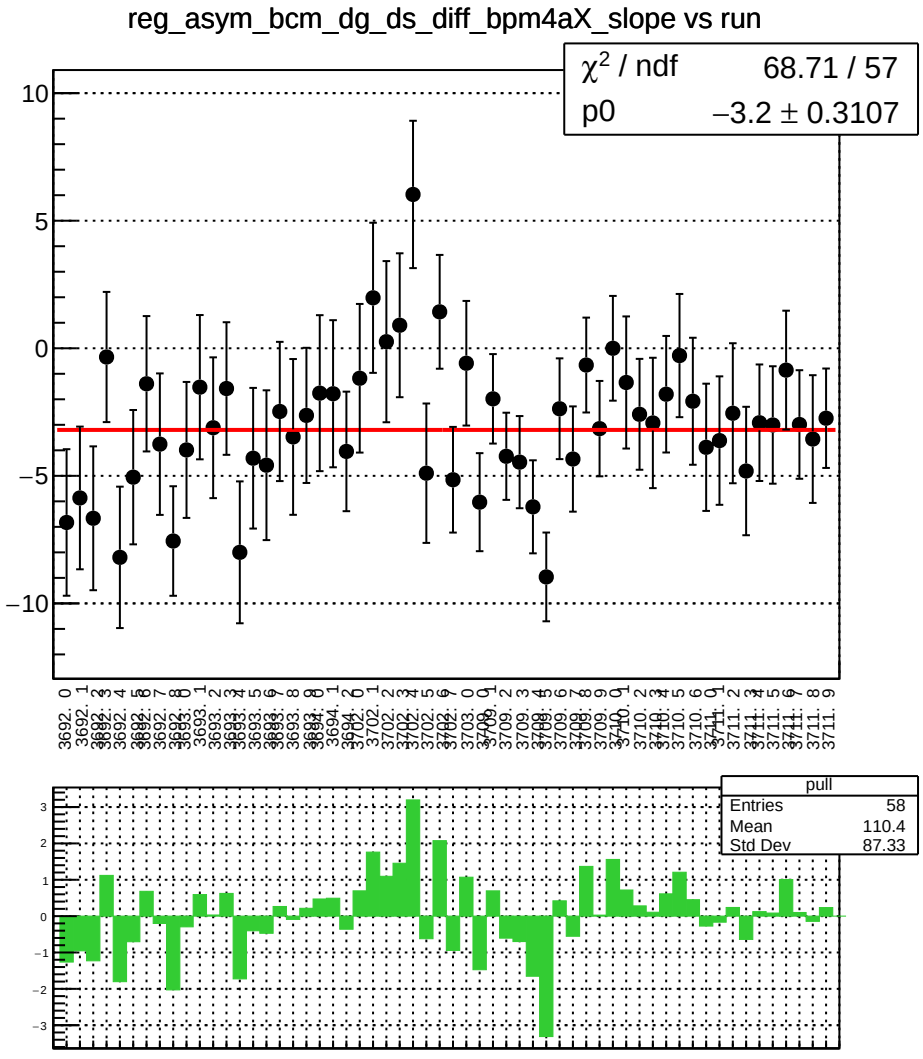

pull1D
Entries 58
Mean 0.005049
Std Dev 0.8819

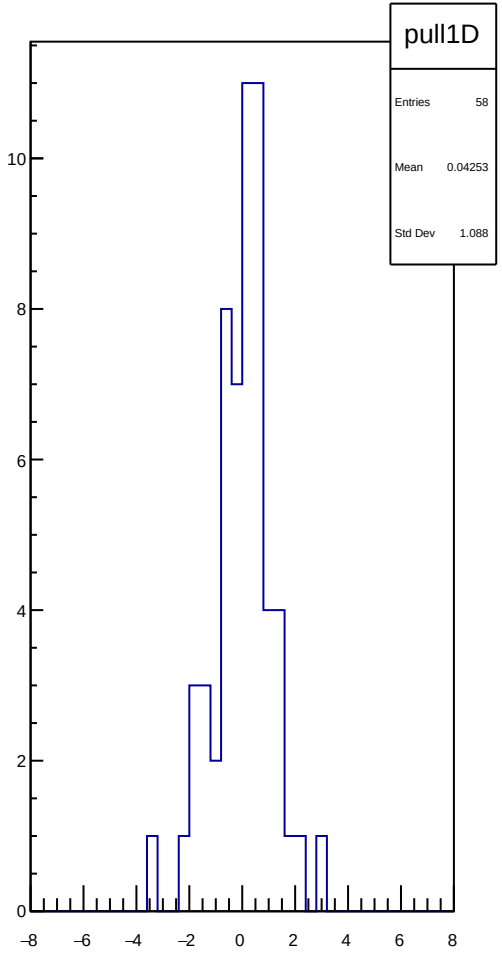

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 69.09 / 57
p0 −3.416 ± 4.43
pull
Entries 58
Mean −137.3
Std Dev 161.9

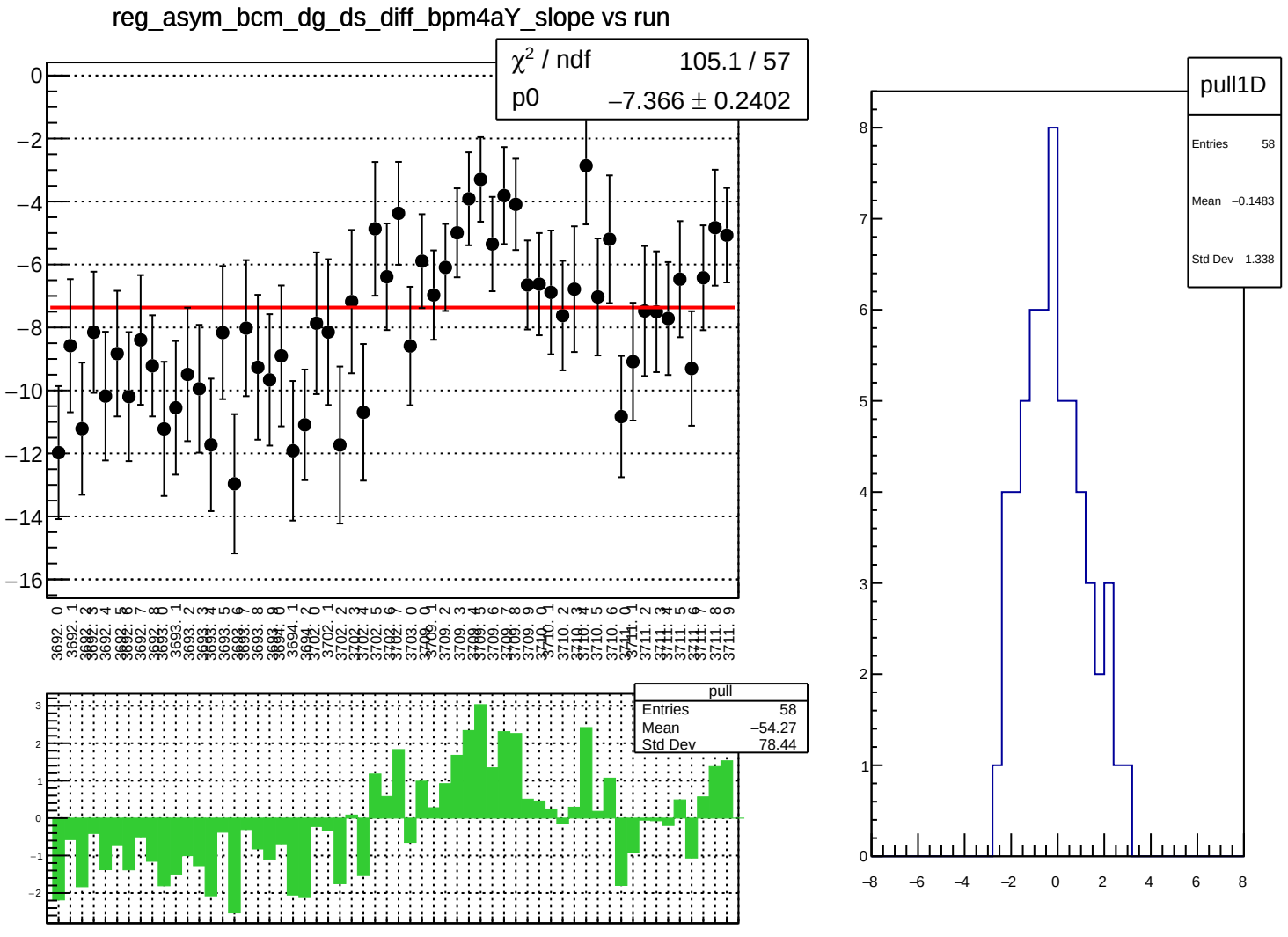

pull1D
Entries 58
Mean 0.01189
Std Dev 1.091

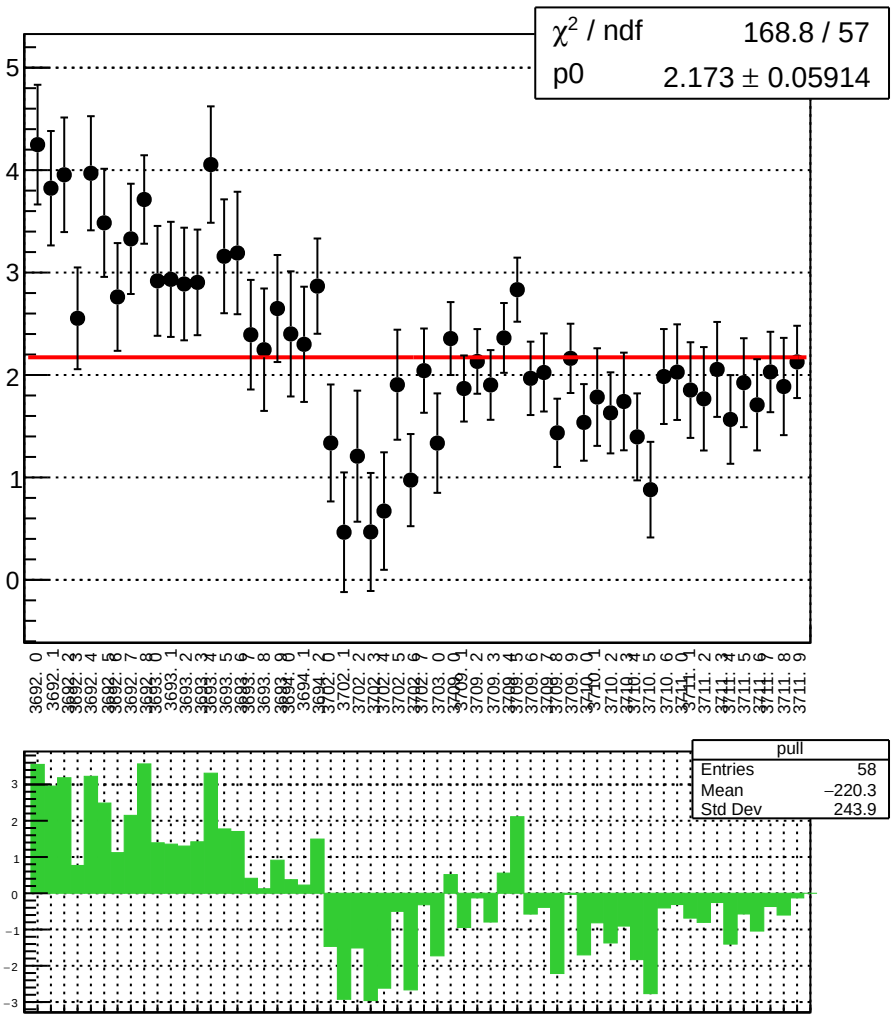

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 47.06 / 57
p0 0.5465 ± 0.53
pull
Entries 58
Mean −17.85
Std Dev 30.56

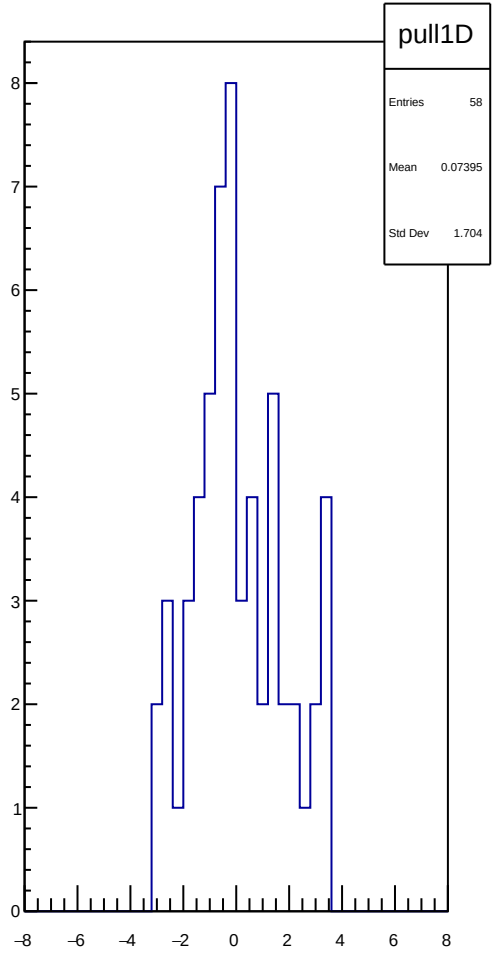

pull1D
Entries 58
Mean −0.02881
Std Dev 0.9003

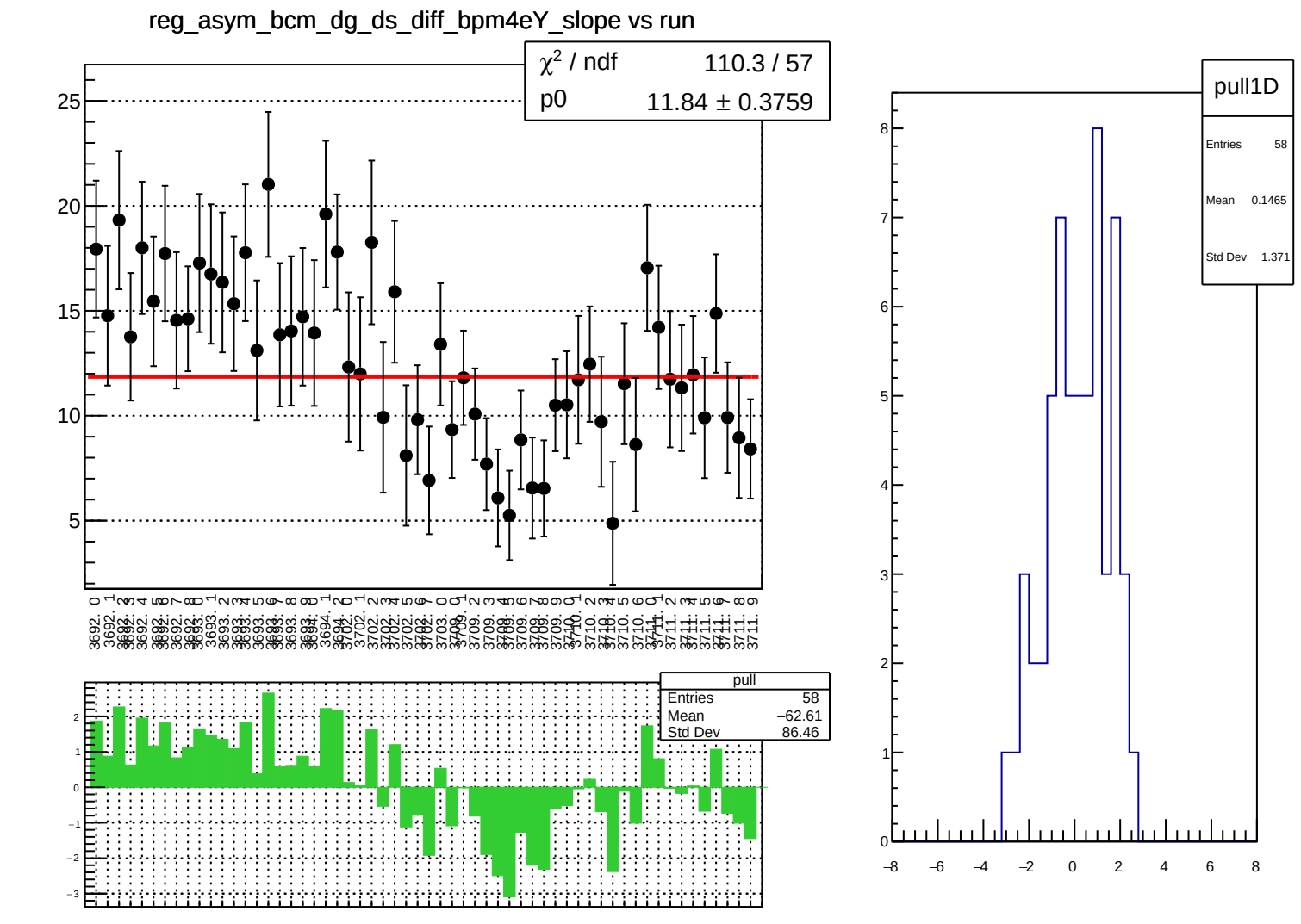

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 68.71 / 57
p0 −3.2 ± 0.3107
pull
Entries 58
Mean 110.4
Std Dev 87.33

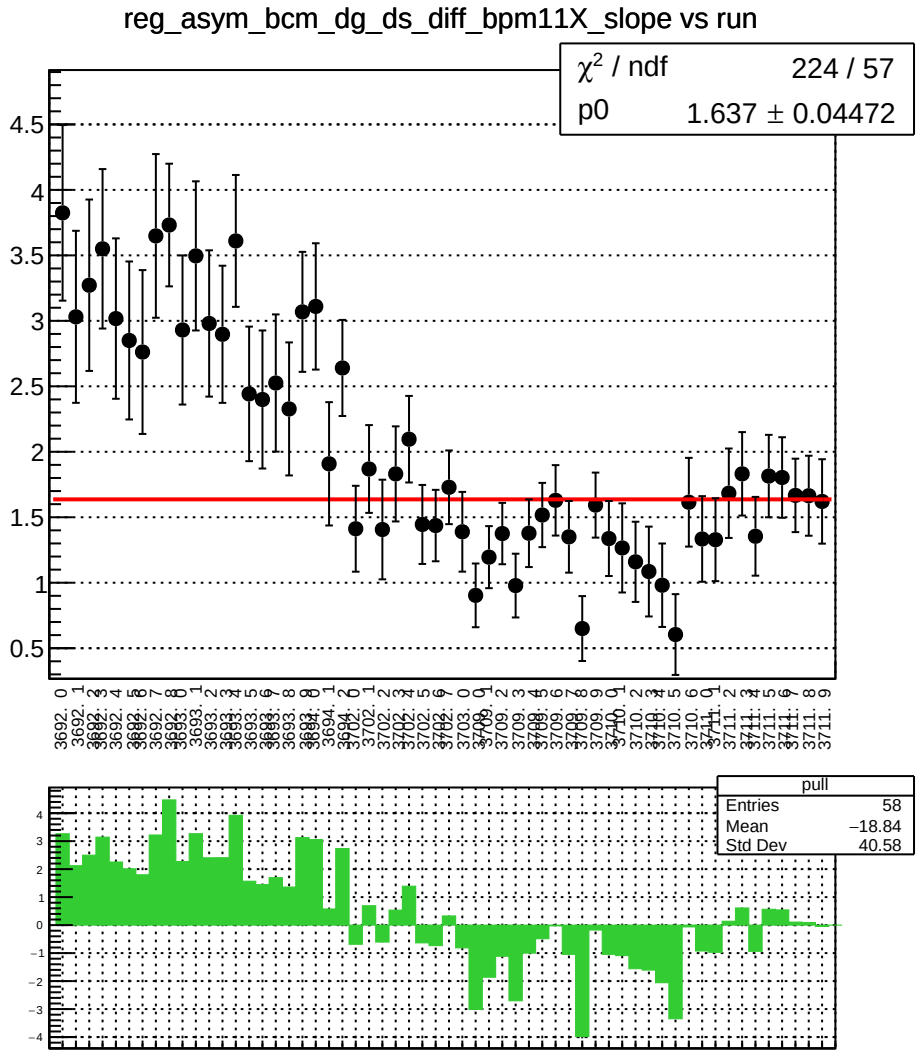

pull1D
Entries 58
Mean 0.04253
Std Dev 1.088

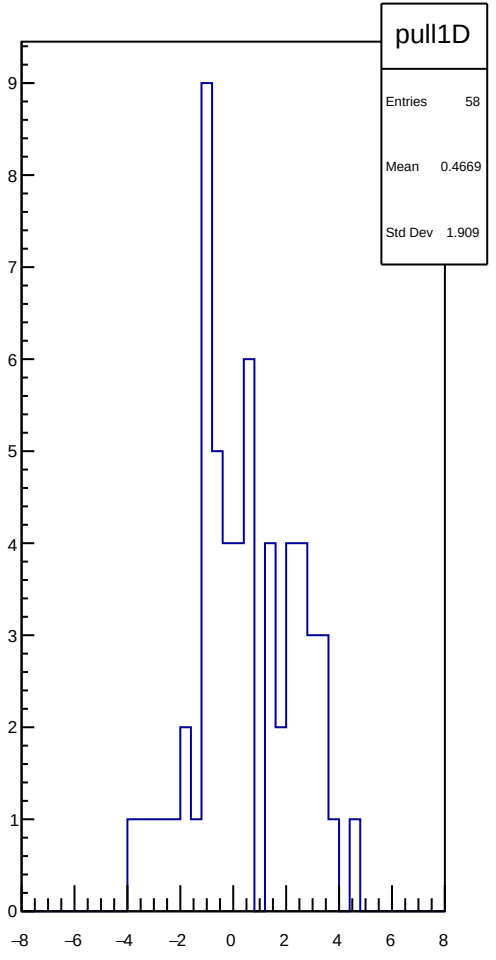

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 105.1 / 57
p0 −7.366 ± 0.2402
pull
Entries 58
Mean −54.27
Std Dev 78.44
pull1D
Entries 58
Mean −0.1483
Std Dev 1.338

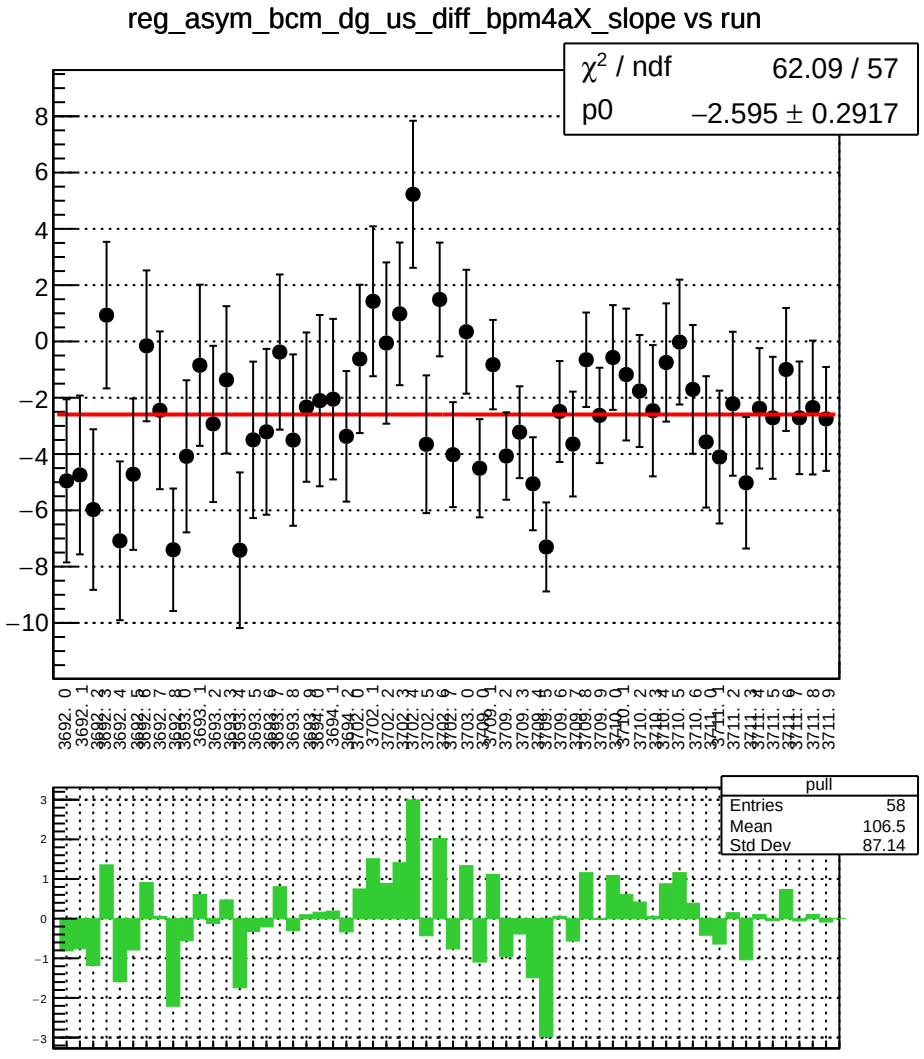

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 168.8 / 57
p0 2.173 ± 0.05914
pull
Entries 58
Mean −220.3
Std Dev 243.9

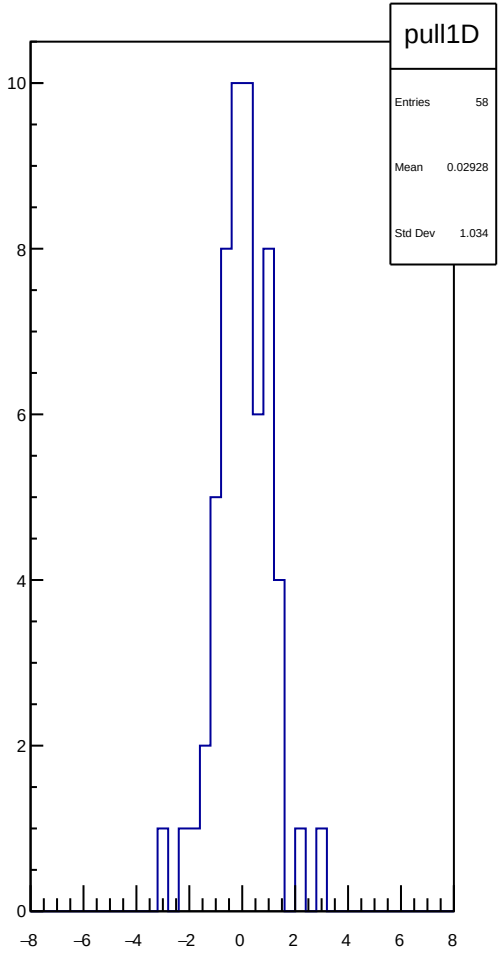

pull1D
Entries 58
Mean 0.07395
Std Dev 1.704

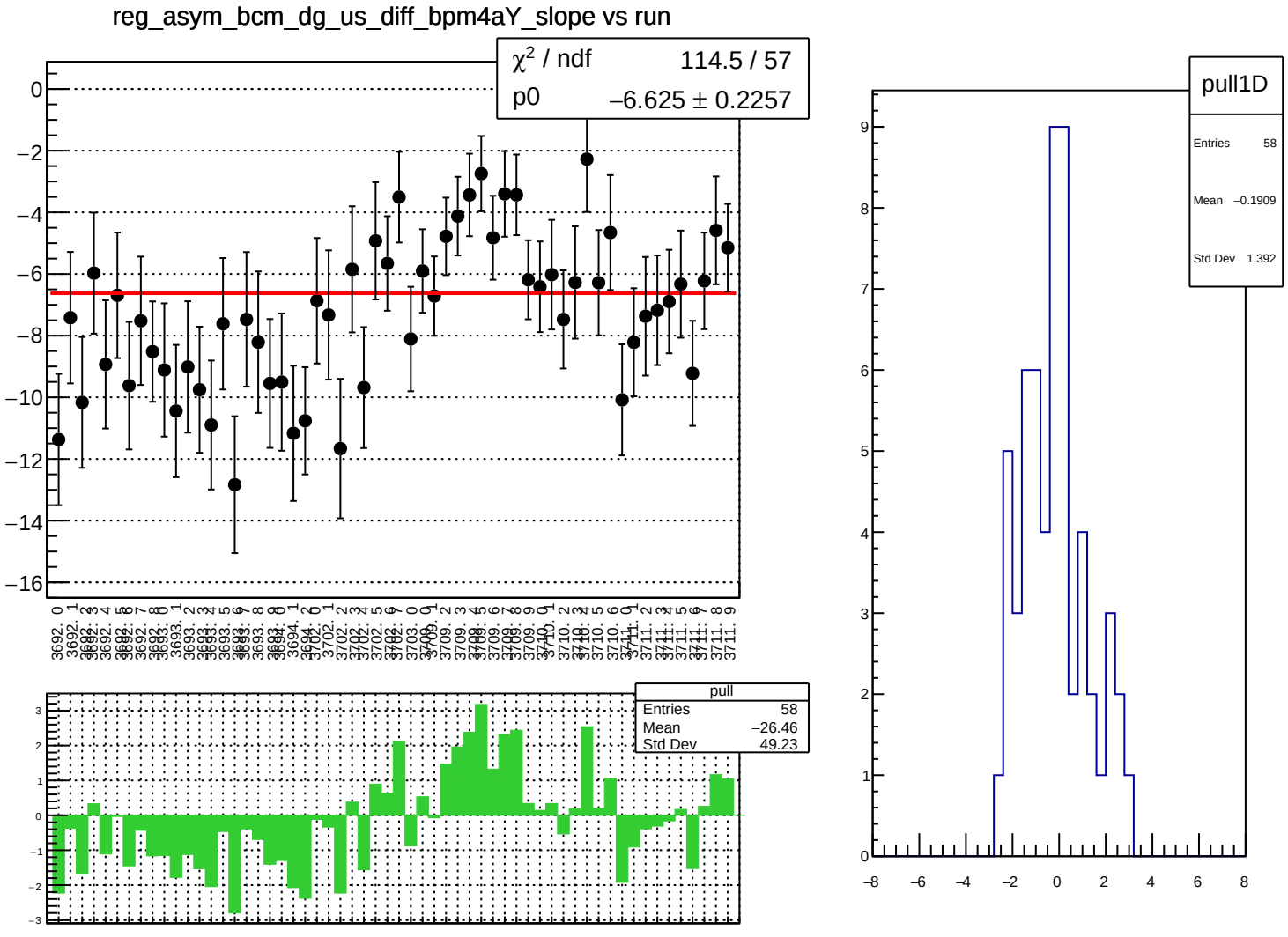

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 110.3 / 57
p0 11.84 ± 0.3759
pull
Entries 58
Mean −62.61
Std Dev 86.46
pull1D
Entries 58
Mean 0.1465
Std Dev 1.371

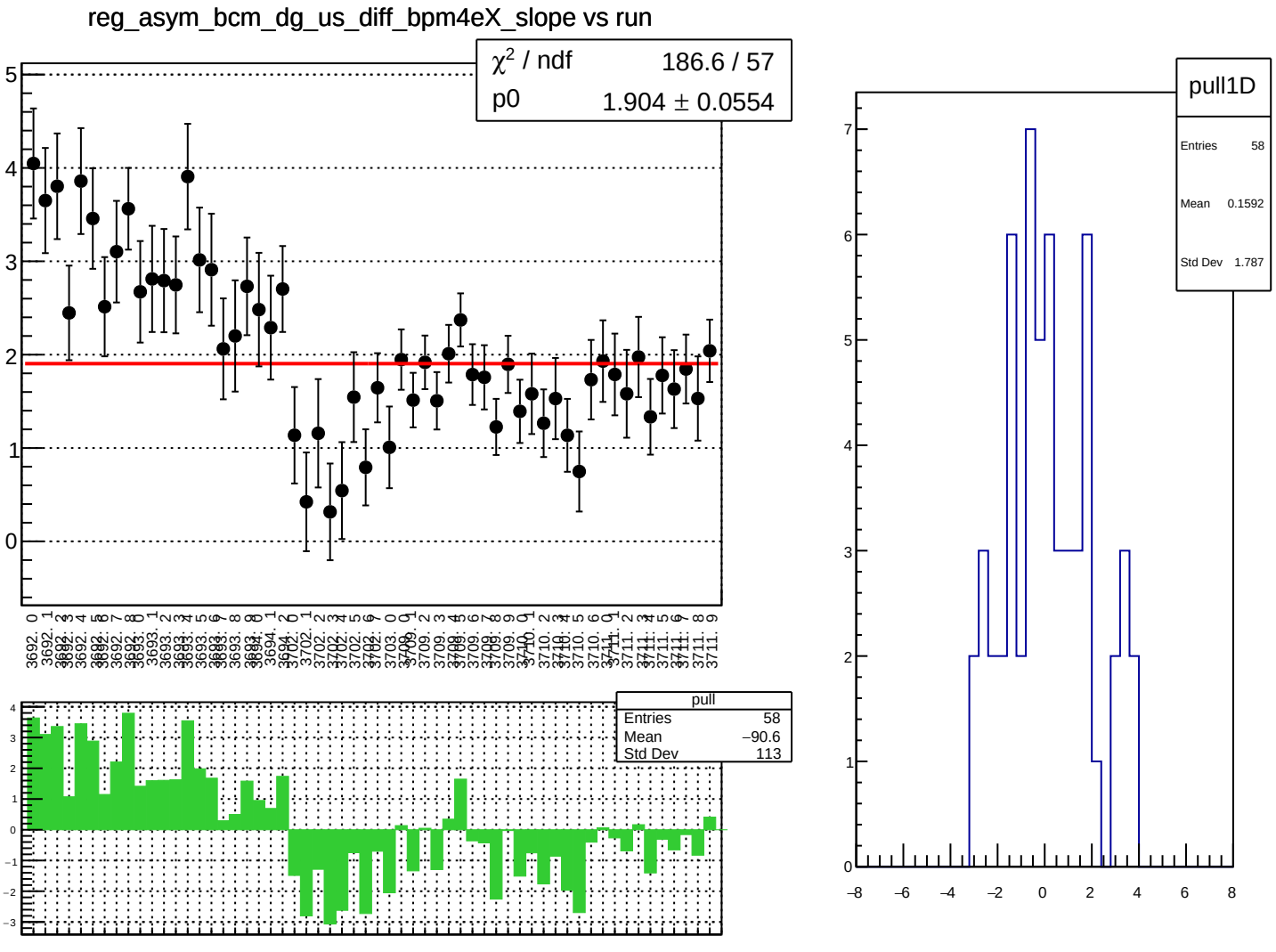

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 224 / 57
p0 1.637 ± 0.04472
pull
Entries 58
Mean −18.84
Std Dev 40.58

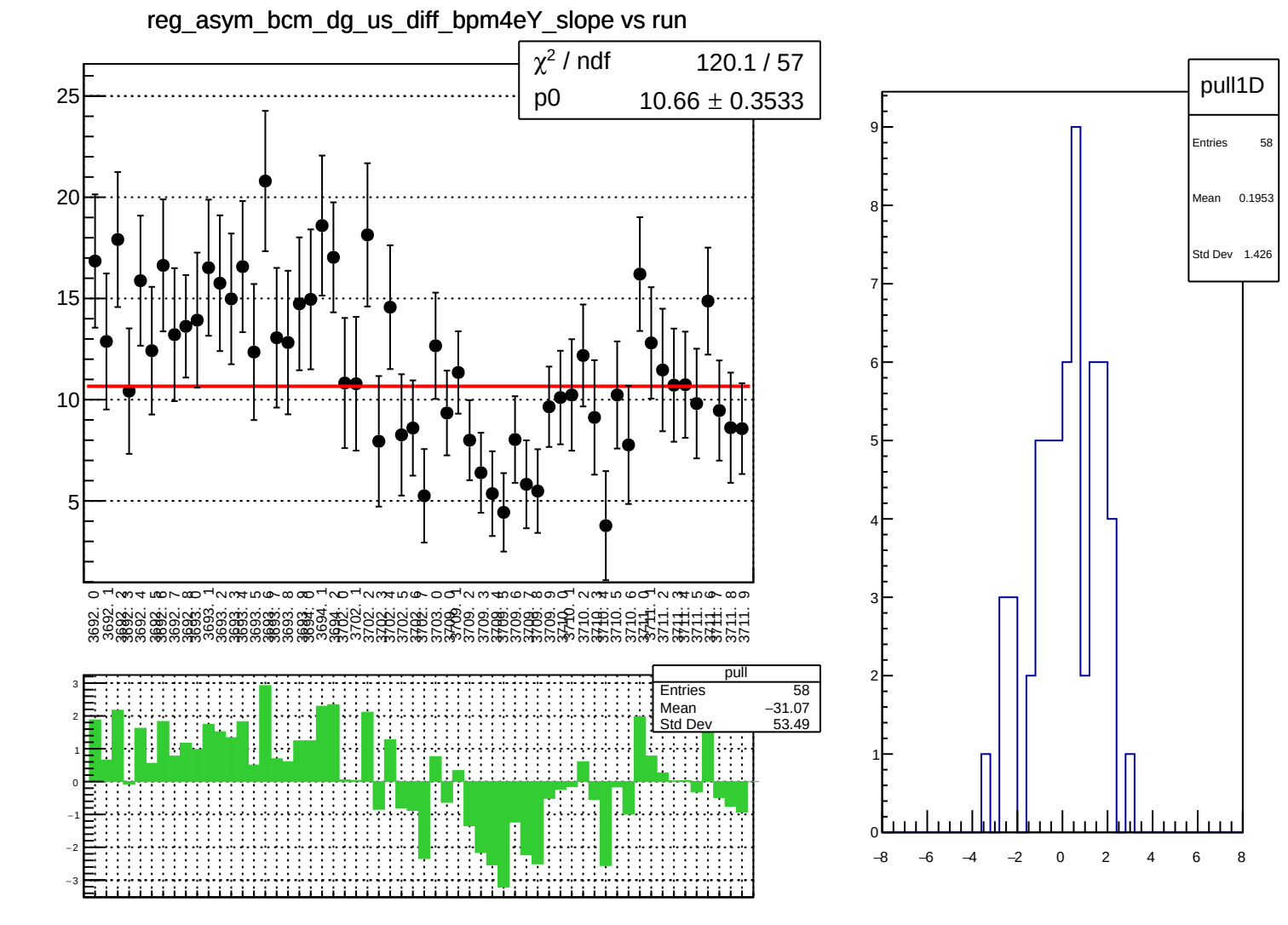

pull1D
Entries 58
Mean 0.4669
Std Dev 1.909

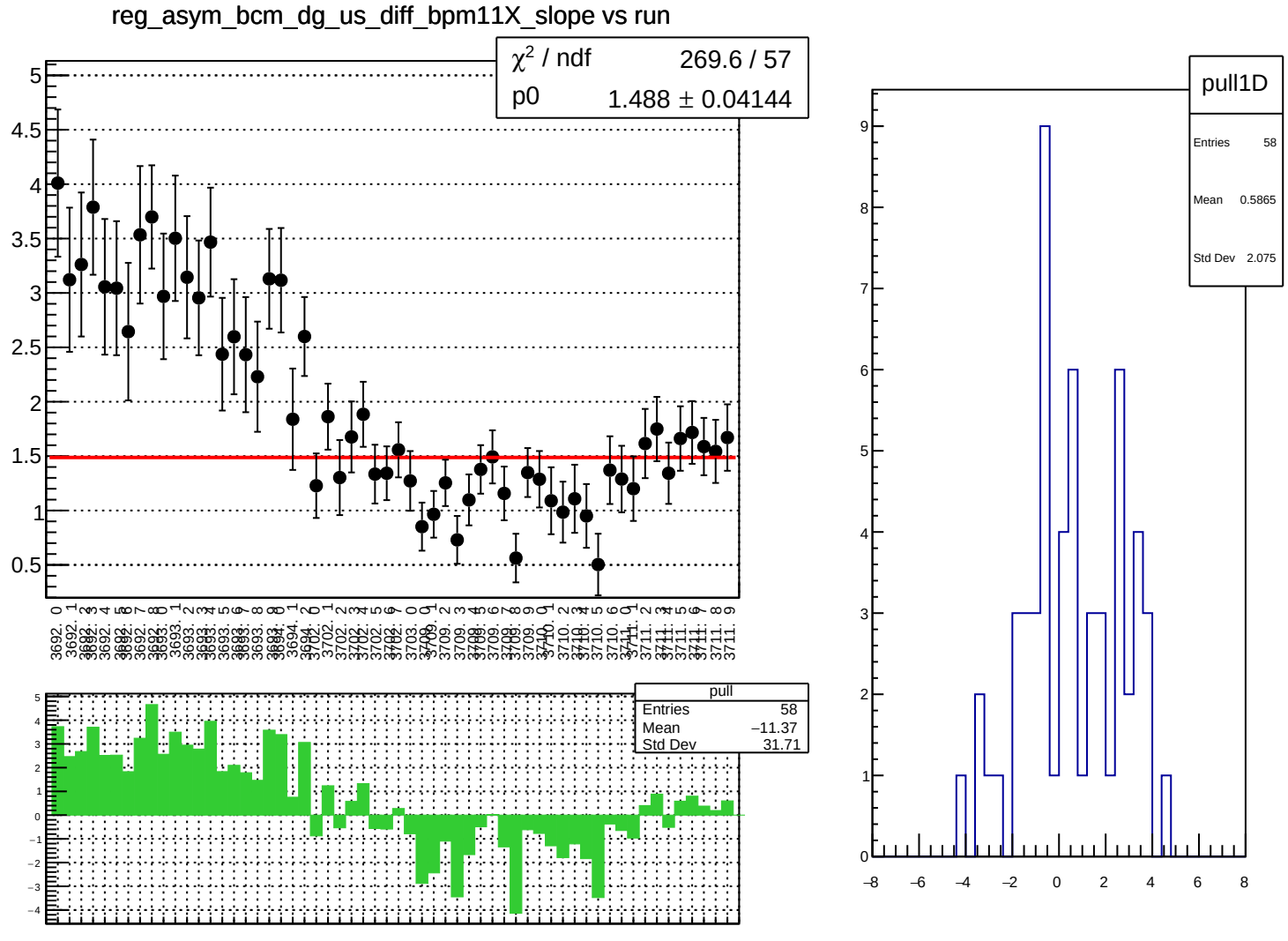

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 62.09 / 57
p0 −2.595 ± 0.2917
pull
Entries 58
Mean 106.5
Std Dev 87.14

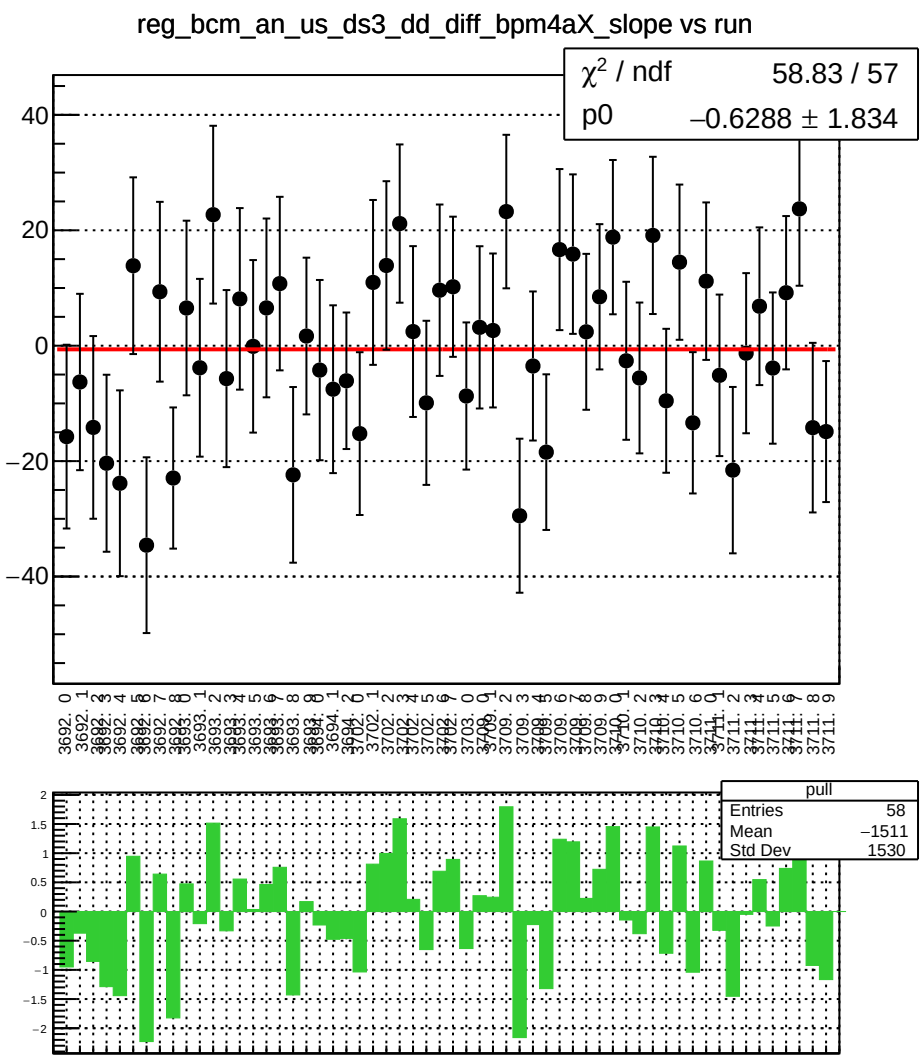

pull1D
Entries 58
Mean 0.02928
Std Dev 1.034

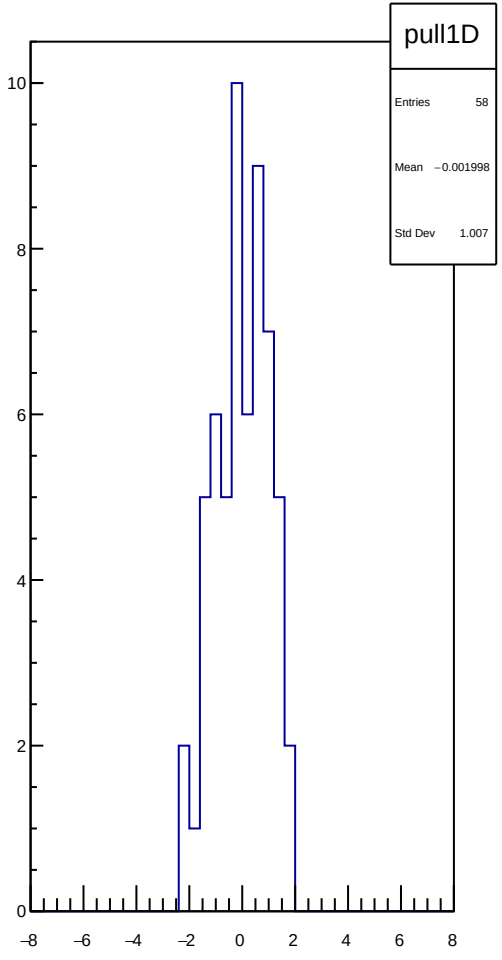

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 114.5 / 57
p0 −6.625 ± 0.2257
pull
Entries 58
Mean −26.46
Std Dev 49.23
pull1D
Entries 58
Mean −0.1909
Std Dev 1.392

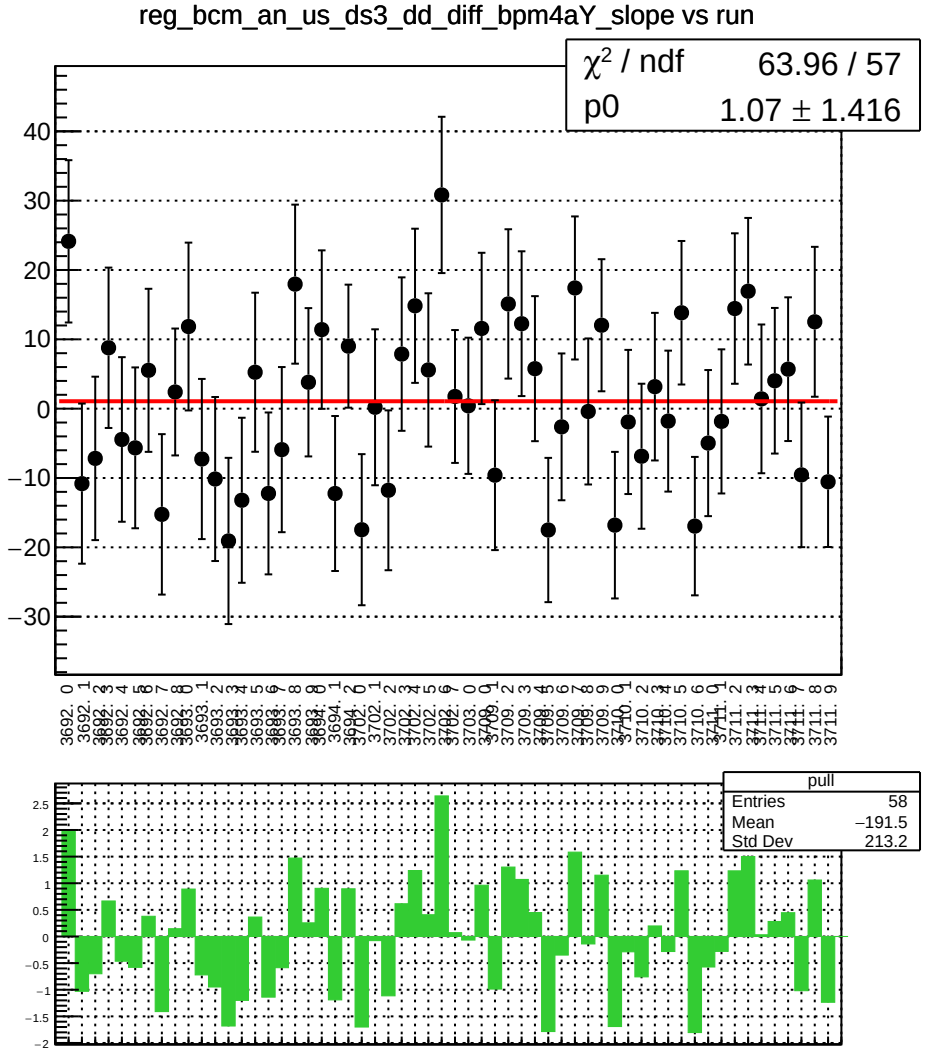

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 186.6 / 57
p0 1.904 ± 0.0554
pull
Entries 58
Mean −90.6
Std Dev 113
pull1D
Entries 58
Mean 0.1592
Std Dev 1.787

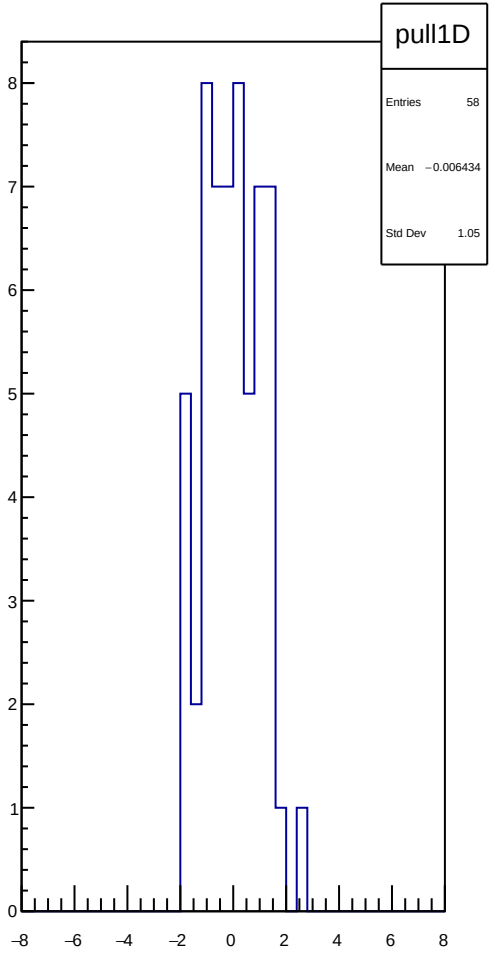

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 120.1 / 57
p0 10.66 ± 0.3533
pull
Entries 58
Mean −31.07
Std Dev 53.49
pull1D
Entries 58
Mean 0.1953
Std Dev 1.426

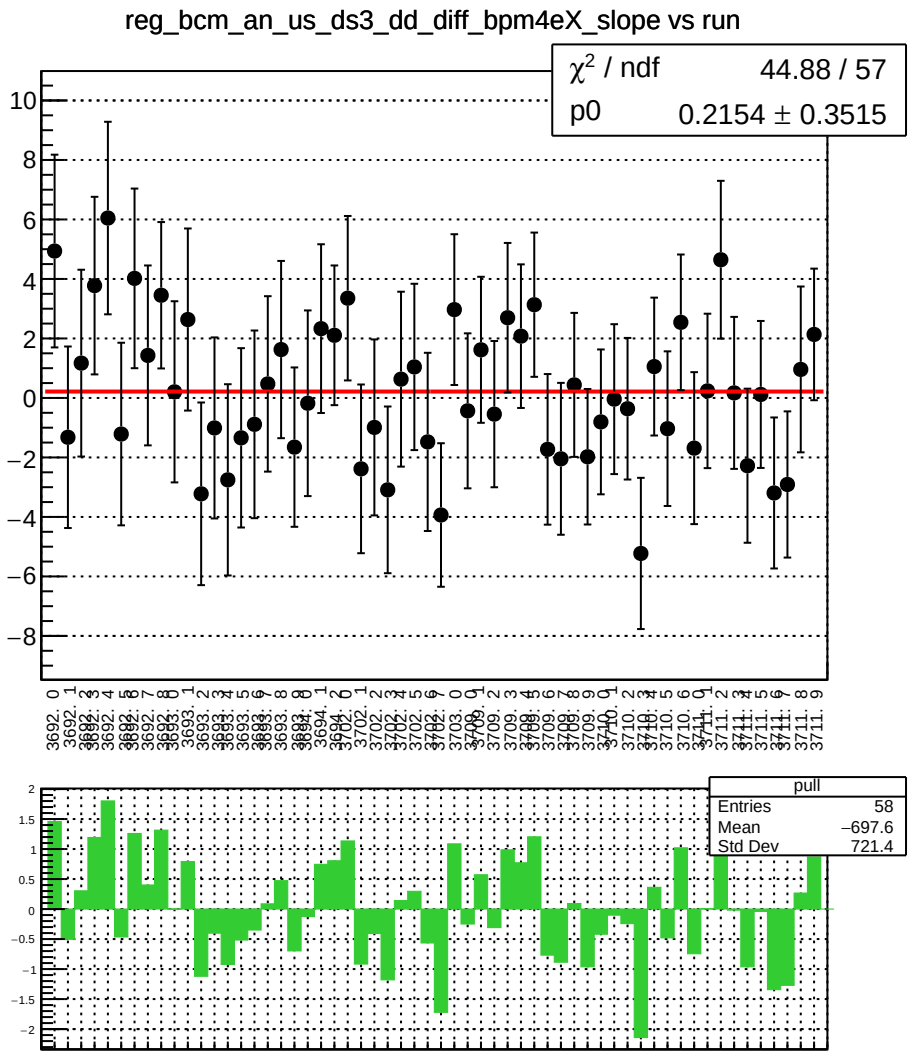

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 269.6 / 57
p0 1.488 ± 0.04144
pull
Entries 58
Mean −11.37
Std Dev 31.71
pull1D
Entries 58
Mean 0.5865
Std Dev 2.075

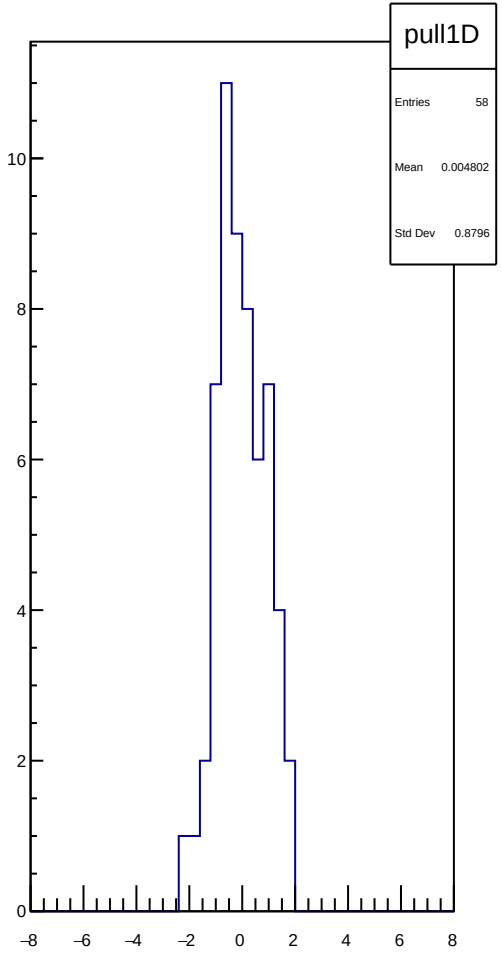

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 58.83 / 57
p0 −0.6288 ± 1.834
pull
Entries 58
Mean −1511
Std Dev 1530

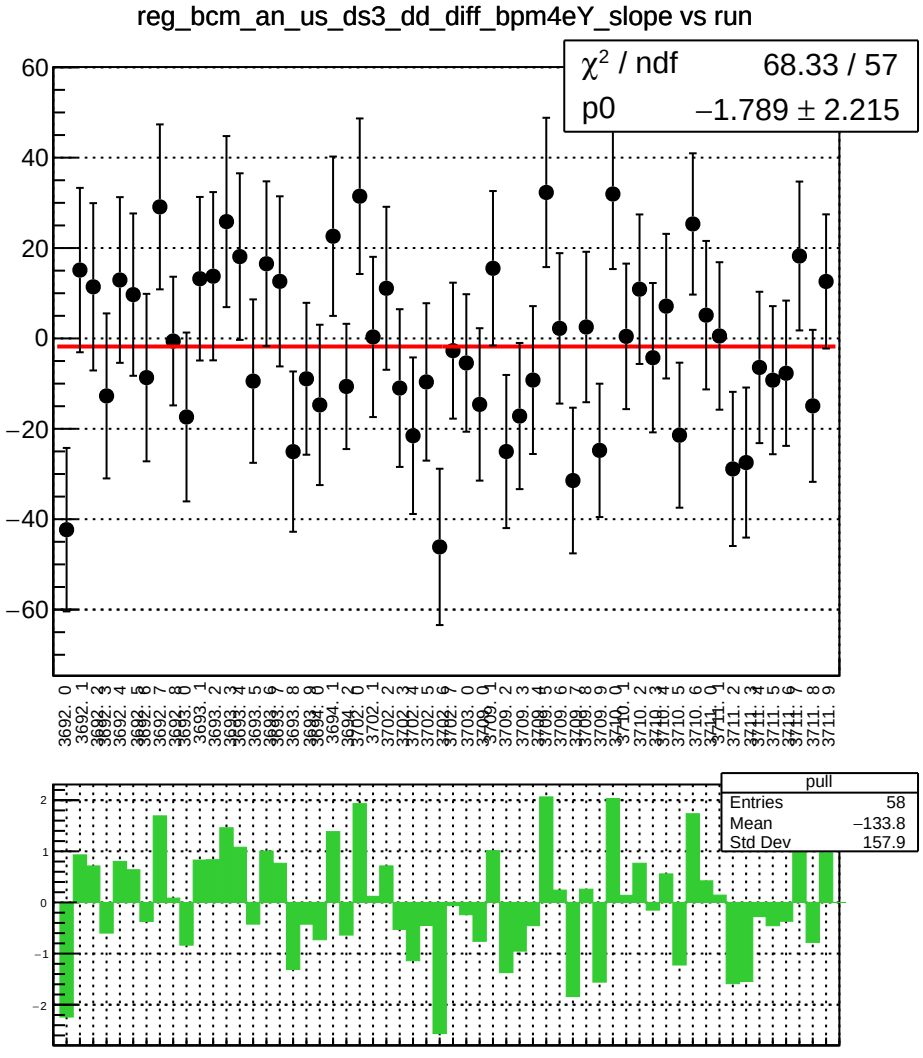

pull1D
Entries 58
Mean −0.001998
Std Dev 1.007

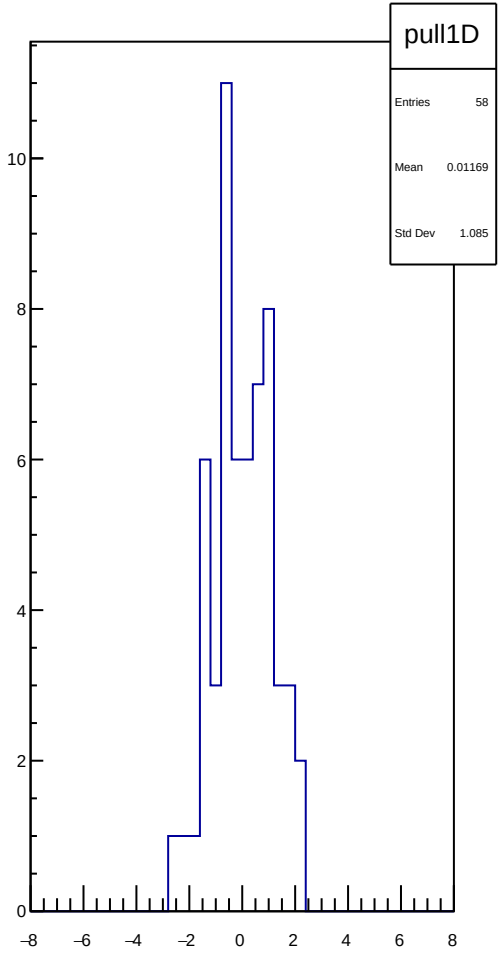

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.96 / 57
p0 1.07 ± 1.416
pull
Entries 58
Mean −191.5
Std Dev 213.2

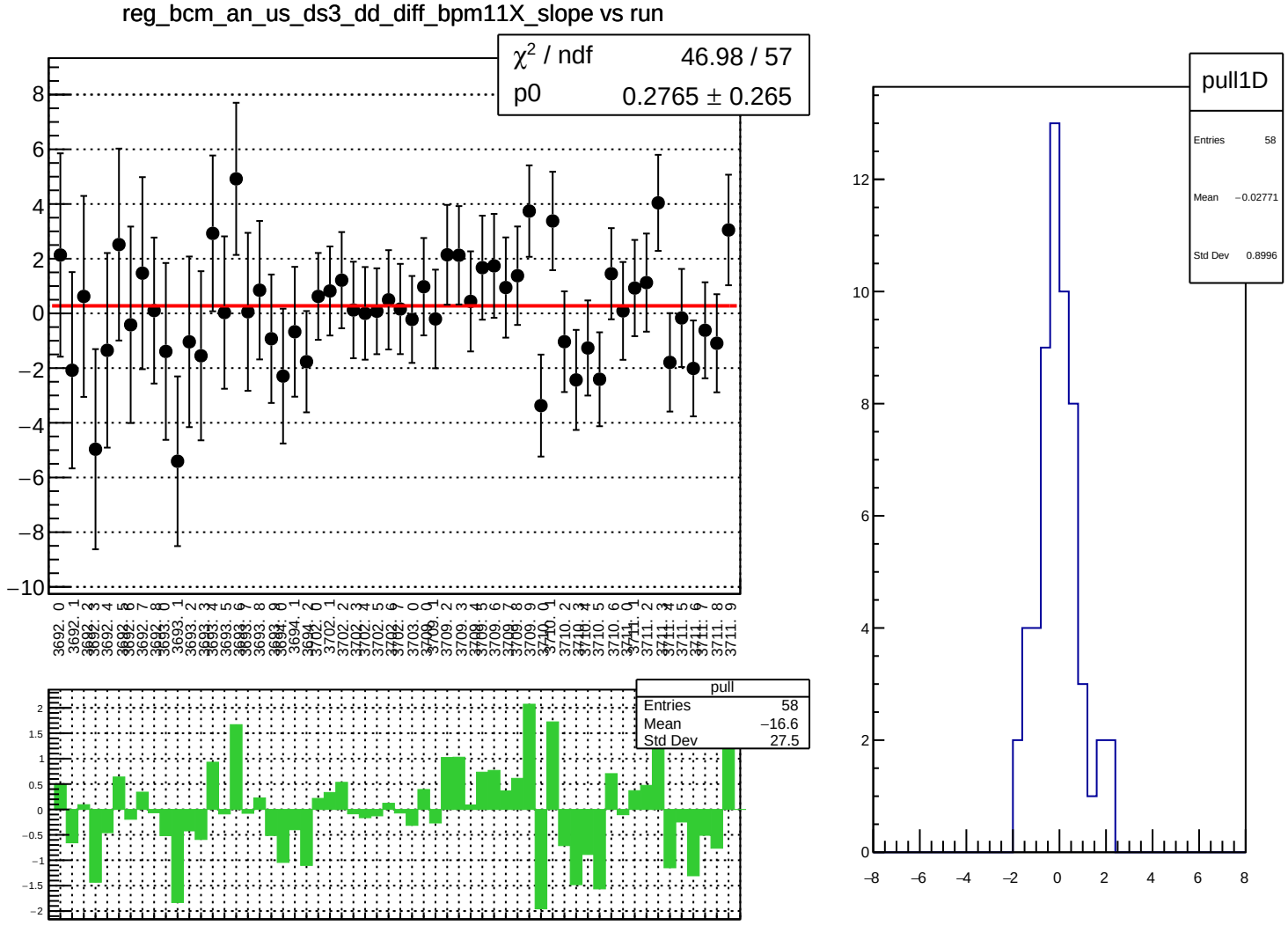

pull1D
Entries 58
Mean −0.006434
Std Dev 1.05

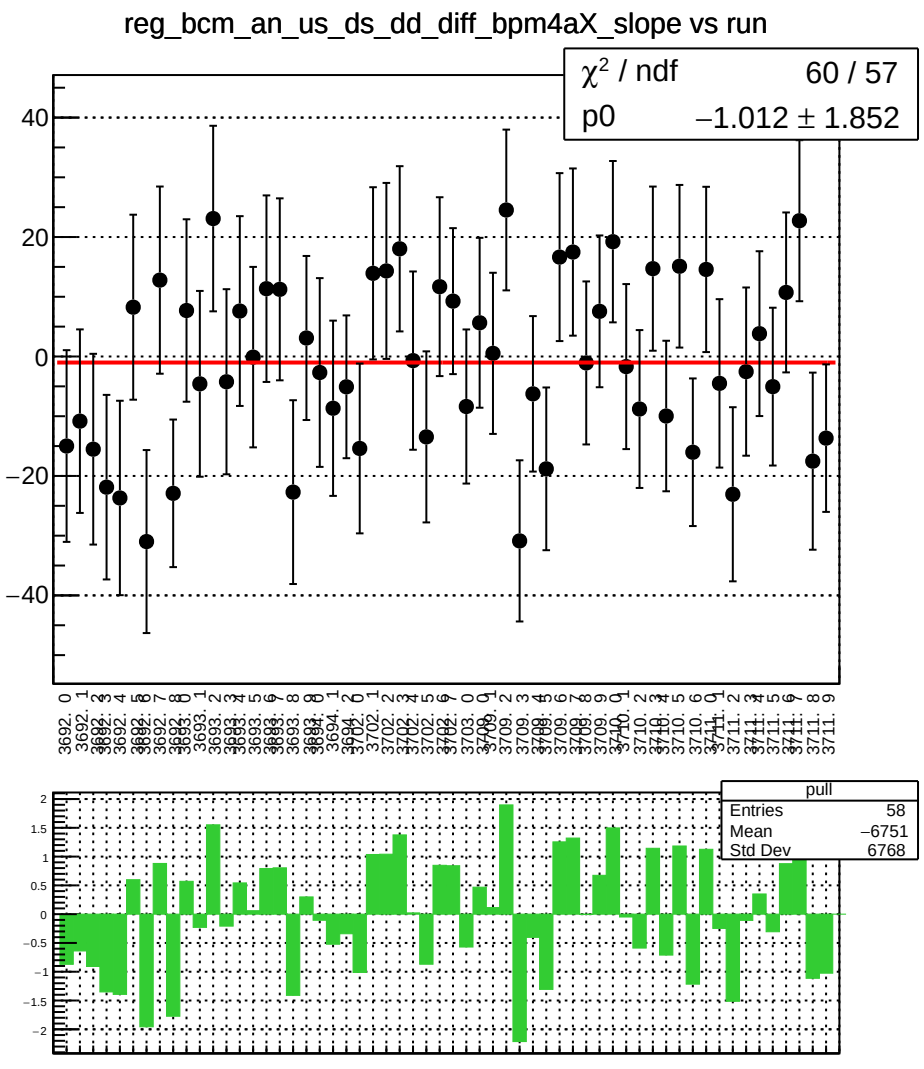

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.88 / 57
p0 0.2154 ± 0.3515
pull
Entries 58
Mean −697.6
Std Dev 721.4

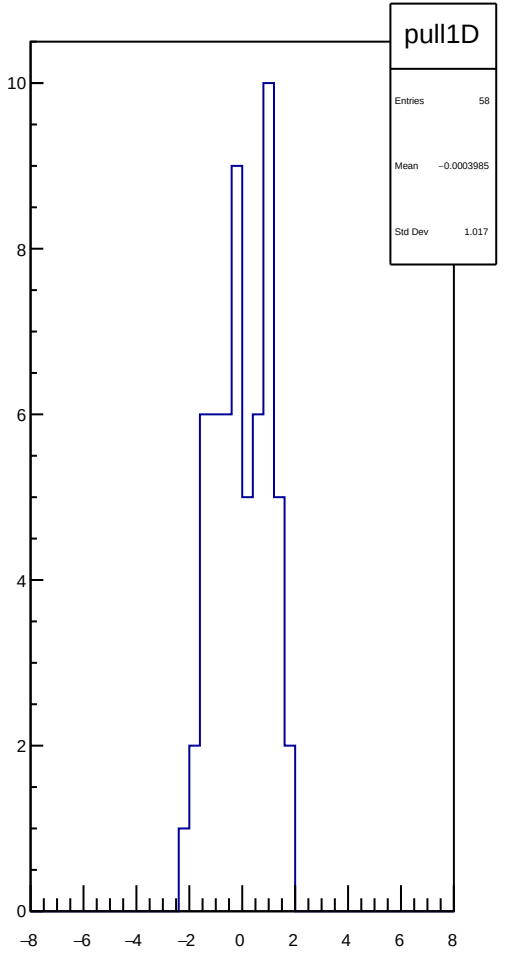

pull1D
Entries 58
Mean 0.004802
Std Dev 0.8796

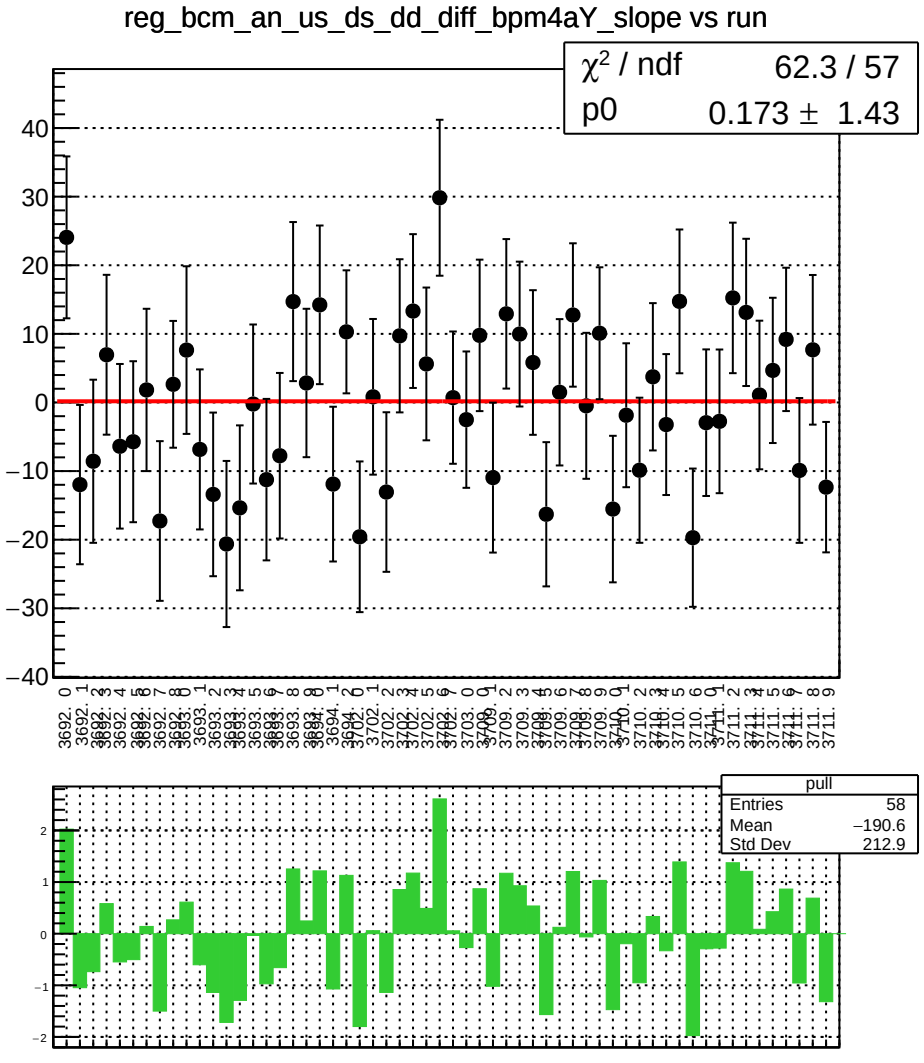

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.33 / 57
p0 −1.789 ± 2.215
pull
Entries 58
Mean −133.8
Std Dev 157.9

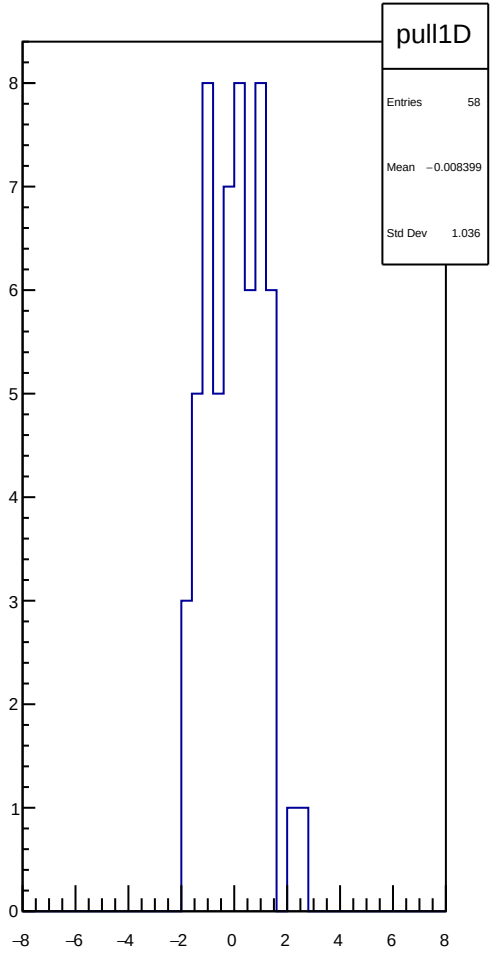

pull1D
Entries 58
Mean 0.01169
Std Dev 1.085

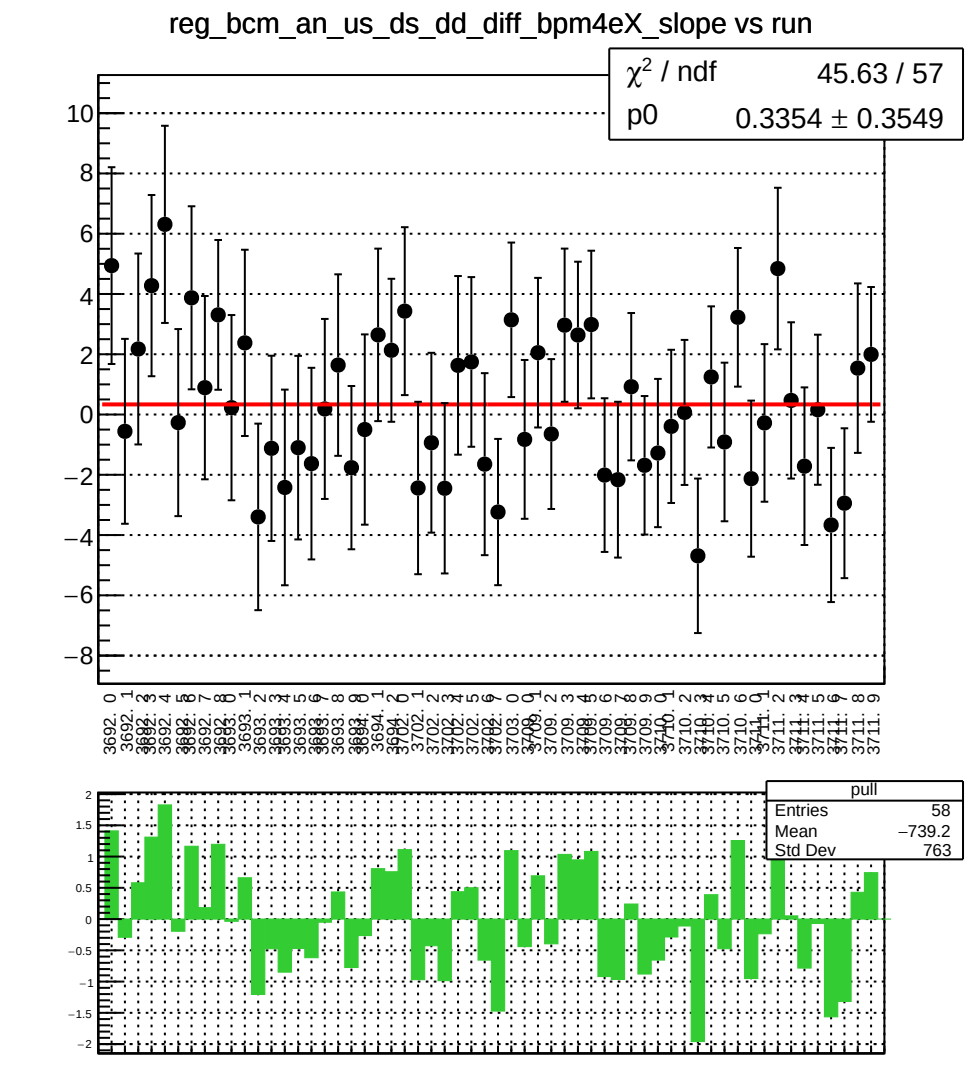

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 46.98 / 57
p0 0.2765 ± 0.265
pull
Entries 58
Mean −16.6
Std Dev 27.5
pull1D
Entries 58
Mean −0.02771
Std Dev 0.8996

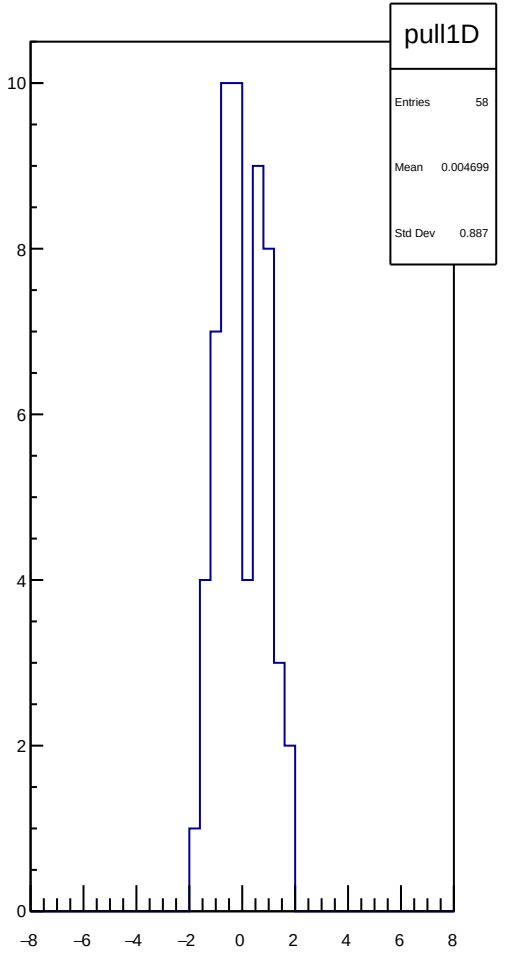

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 60 / 57
p0 −1.012 ± 1.852
pull
Entries 58
Mean −6751
Std Dev 6768

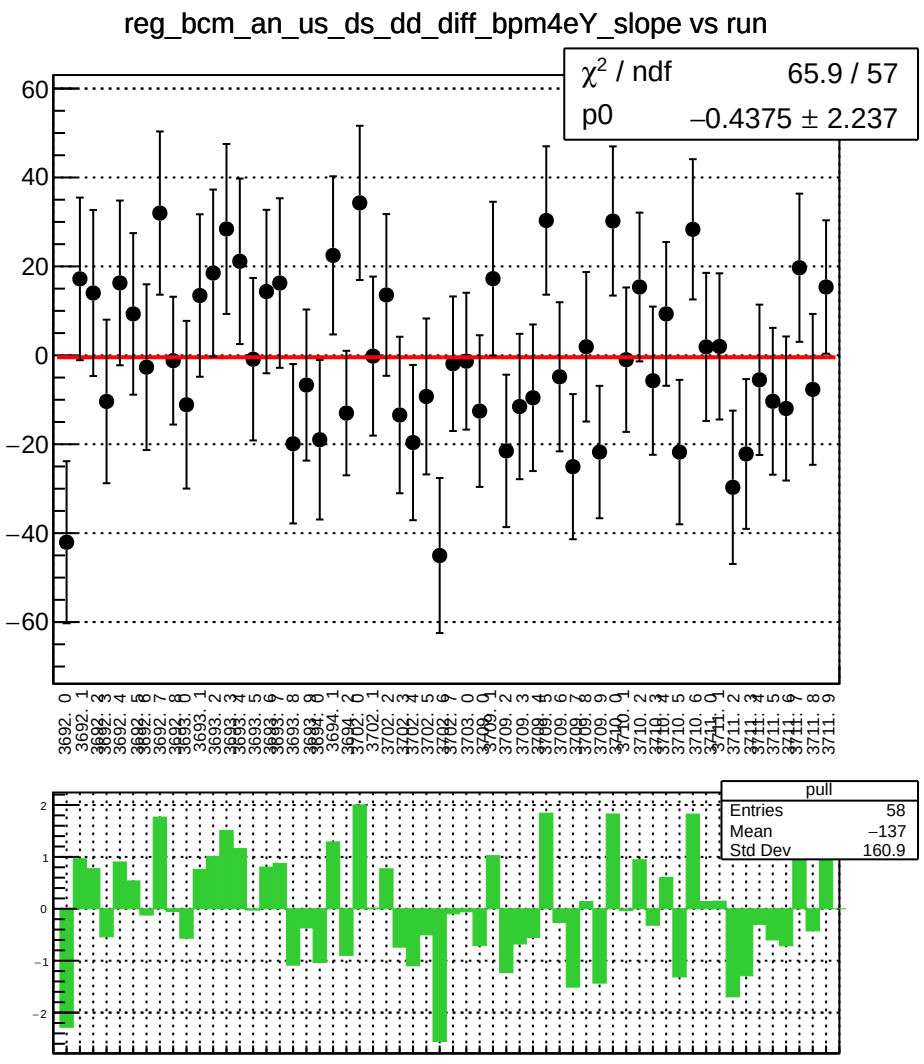

pull1D
Entries 58
Mean −0.0003985
Std Dev 1.017

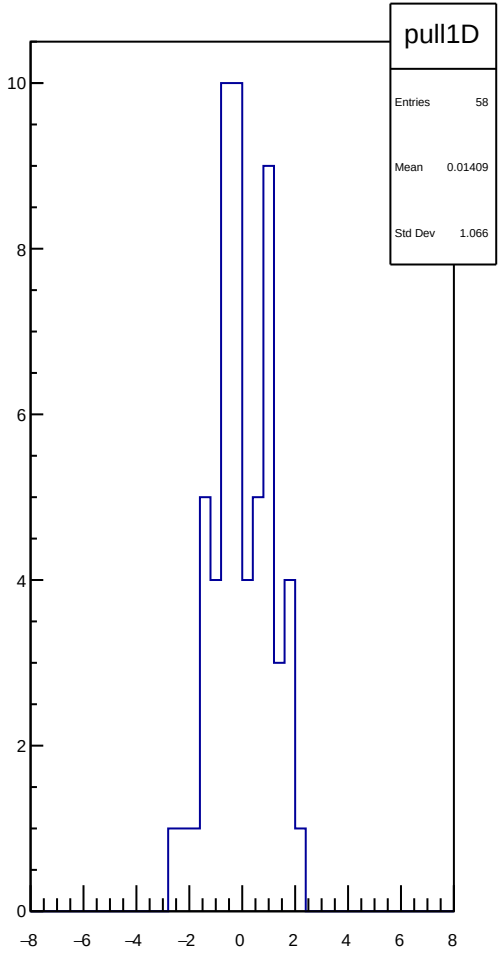

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.3 / 57
p0 0.173 ± 1.43
pull
Entries 58
Mean −190.6
Std Dev 212.9

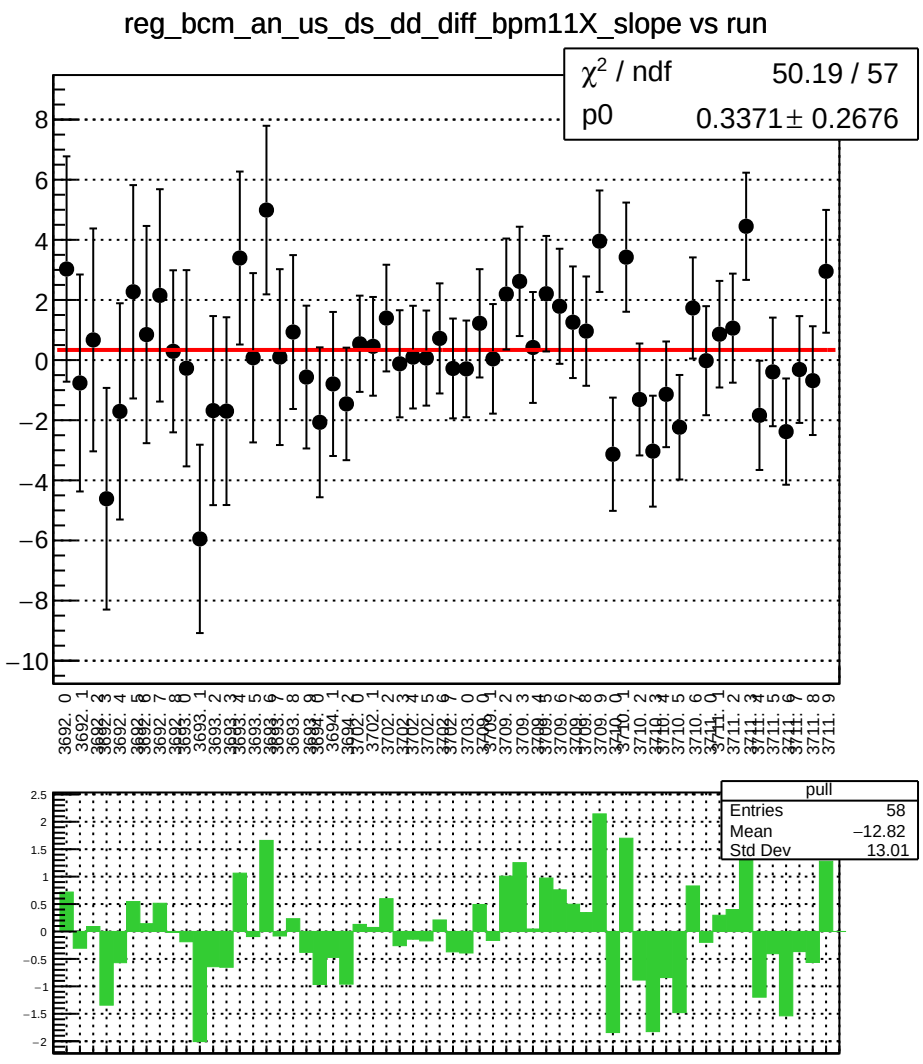

pull1D
Entries 58
Mean −0.008399
Std Dev 1.036

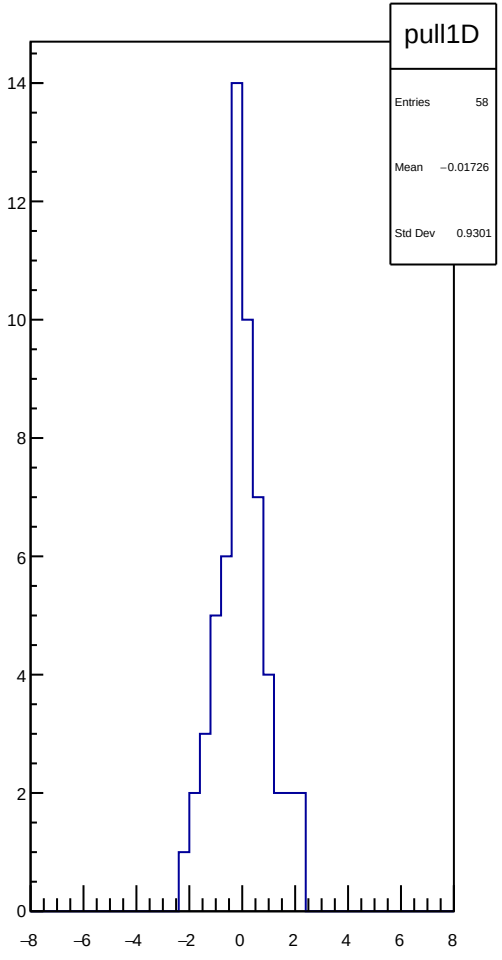

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.63 / 57
p0 0.3354 ± 0.3549
pull
Entries 58
Mean −739.2
Std Dev 763

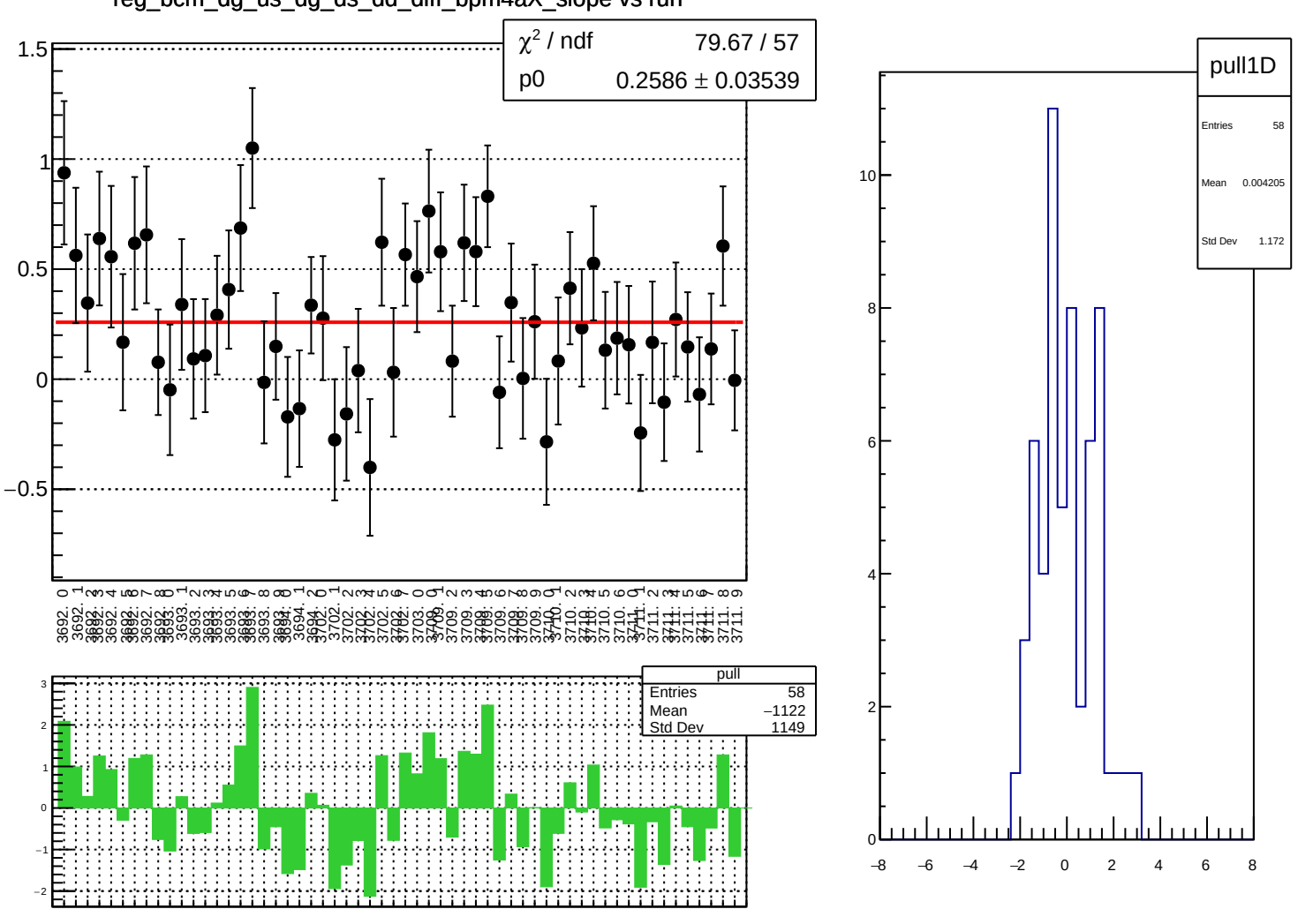

pull1D
Entries 58
Mean 0.004699
Std Dev 0.887

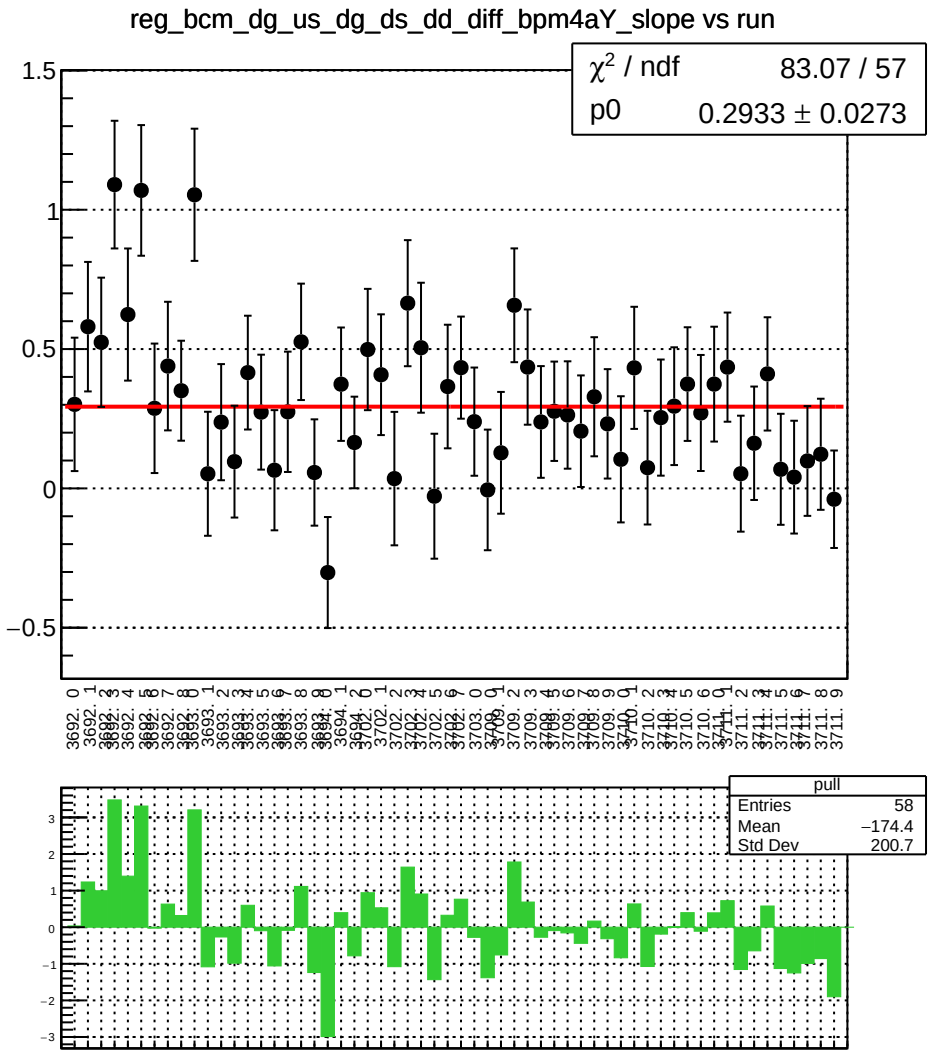

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.9 / 57
p0 −0.4375 ± 2.237
pull
Entries 58
Mean −137
Std Dev 160.9

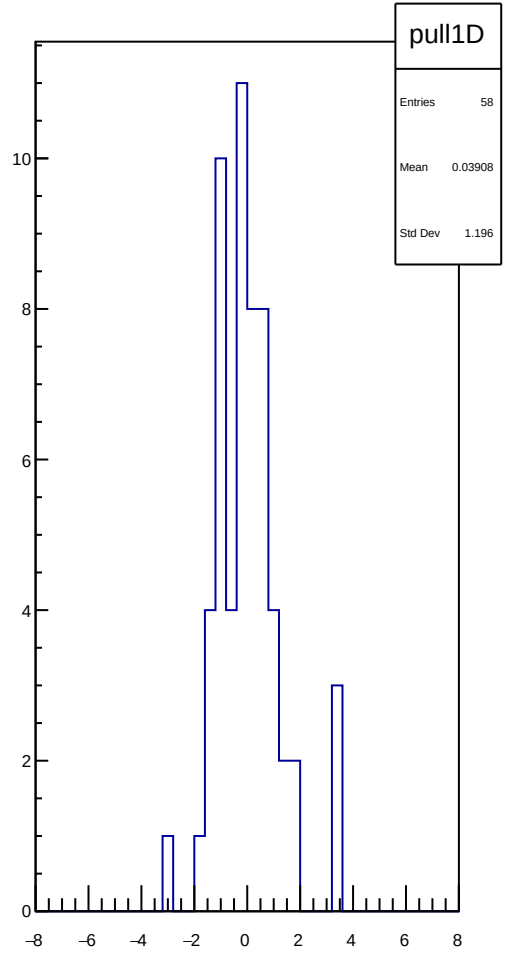

pull1D
Entries 58
Mean 0.01409
Std Dev 1.066

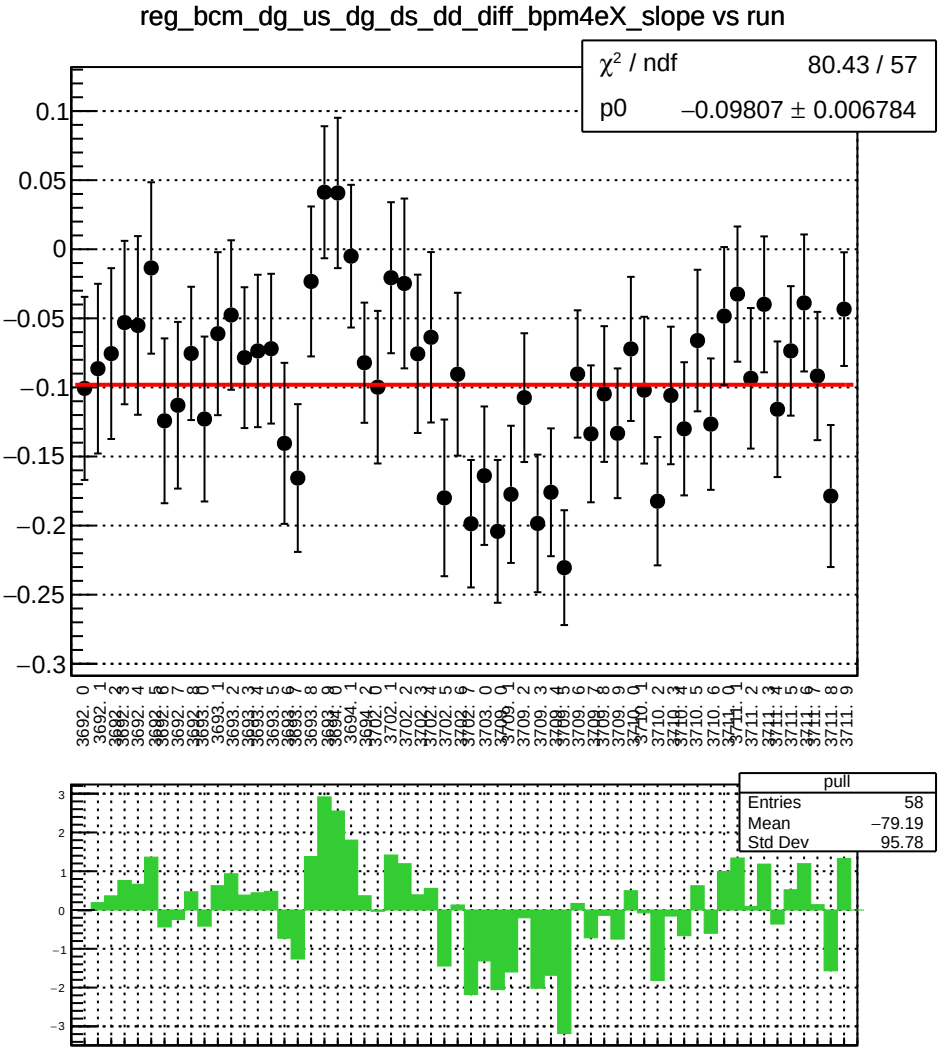

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 50.19 / 57
p0 0.3371 ± 0.2676
pull
Entries 58
Mean −12.82
Std Dev 13.01

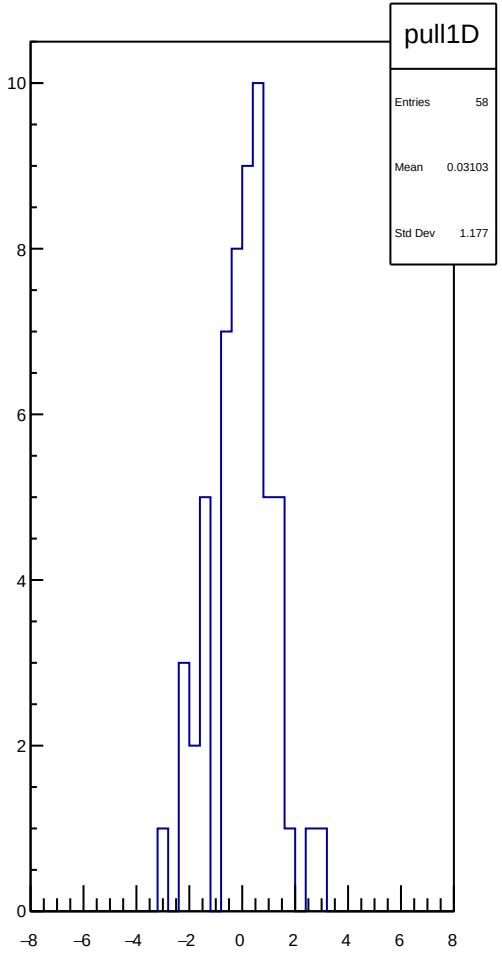

pull1D
Entries 58
Mean −0.01726
Std Dev 0.9301

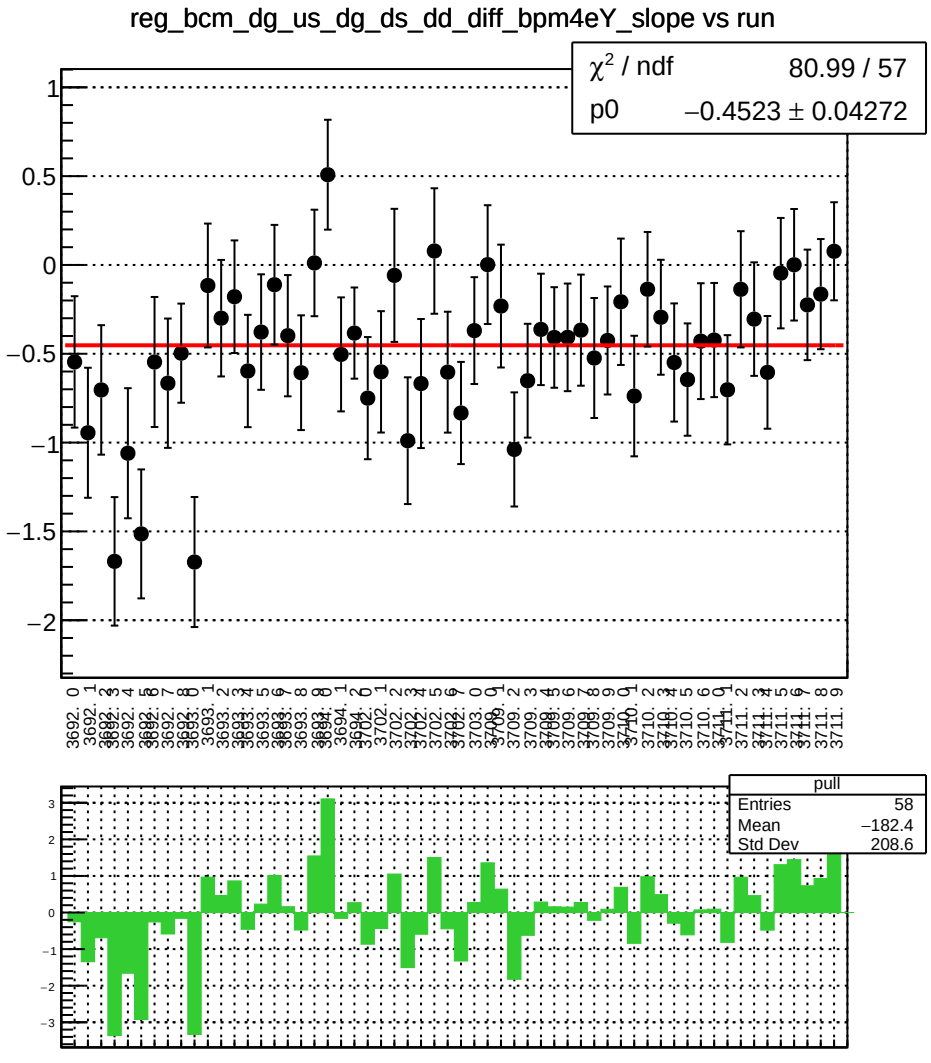

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 79.67 / 57
p0 0.2586 ± 0.03539
pull
Entries 58
Mean −1122
Std Dev 1149
pull1D
Entries 58
Mean 0.004205
Std Dev 1.172

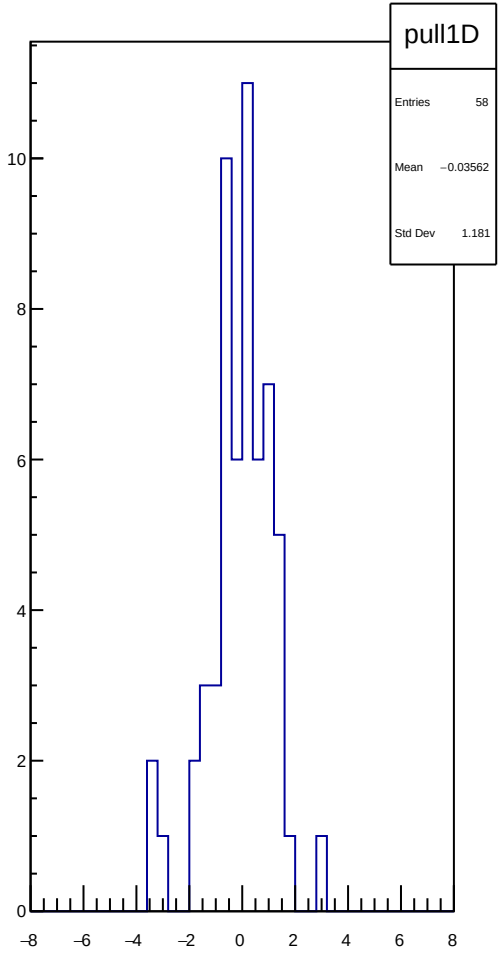

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.07 / 57
p0 0.2933 ± 0.0273
pull
Entries 58
Mean −174.4
Std Dev 200.7

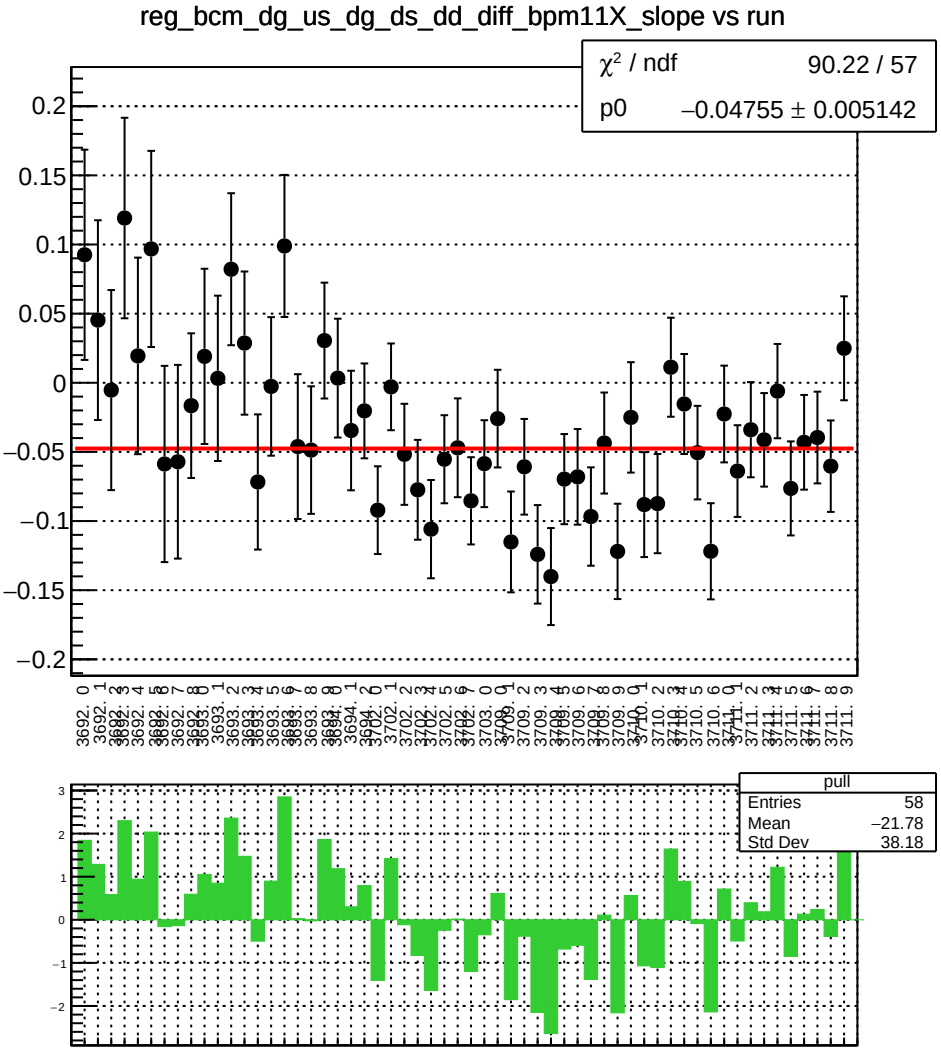

pull1D
Entries 58
Mean 0.03908
Std Dev 1.196

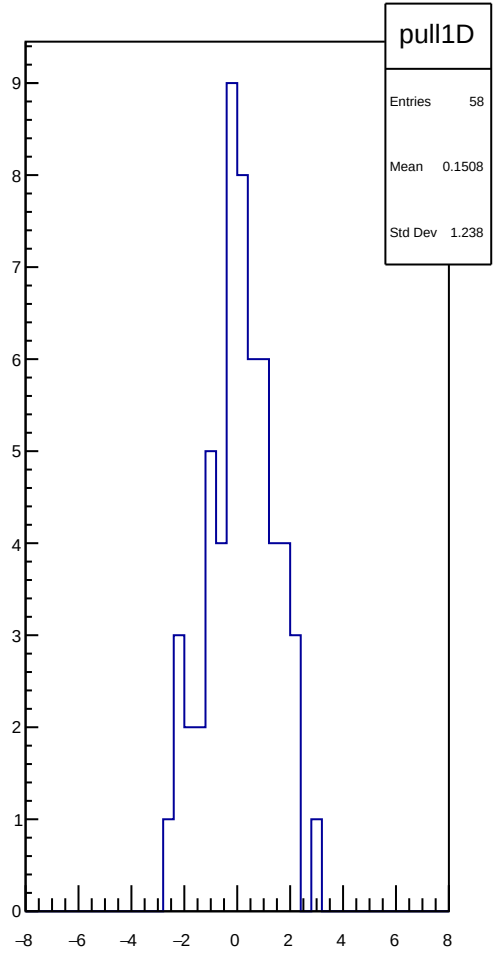

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.43 / 57
p0 −0.09807 ± 0.006784
pull
Entries 58
Mean −79.19
Std Dev 95.78

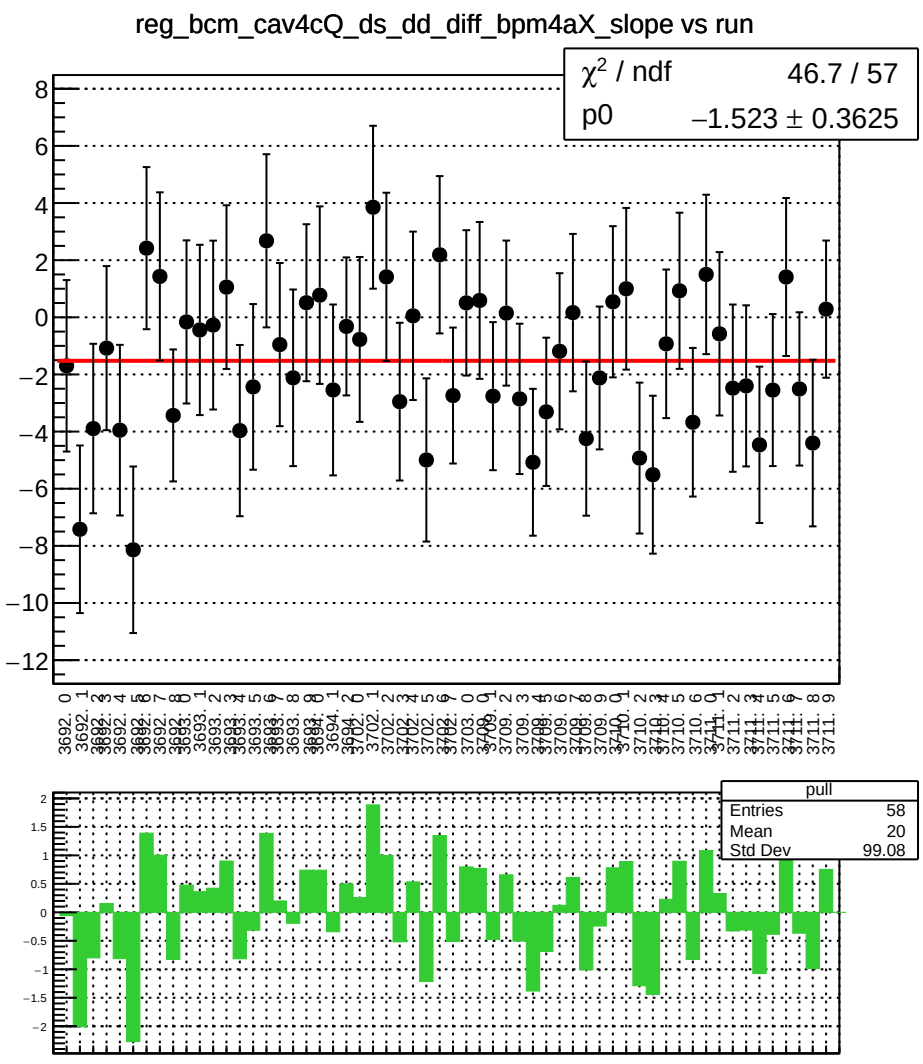

pull1D
Entries 58
Mean 0.03103
Std Dev 1.177

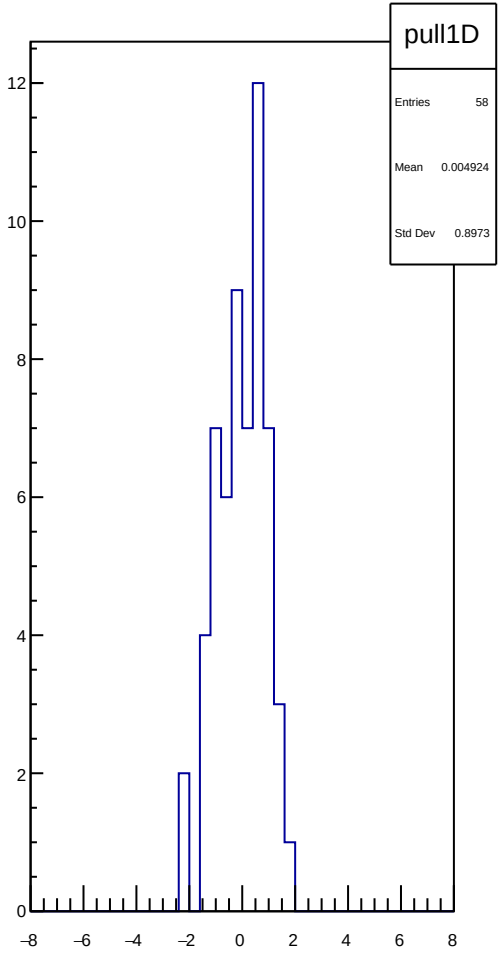

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.99 / 57
p0 −0.4523 ± 0.04272
pull
Entries 58
Mean −182.4
Std Dev 208.6

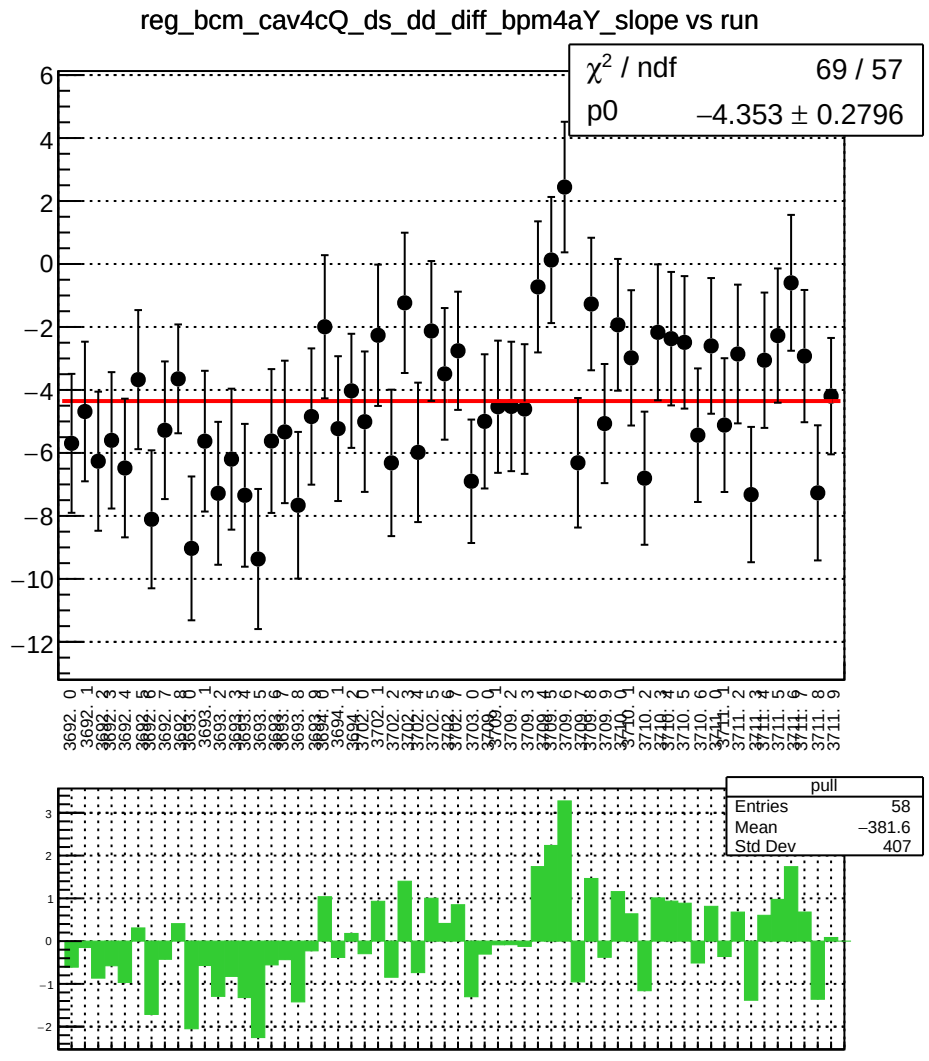

pull1D
Entries 58
Mean −0.03562
Std Dev 1.181

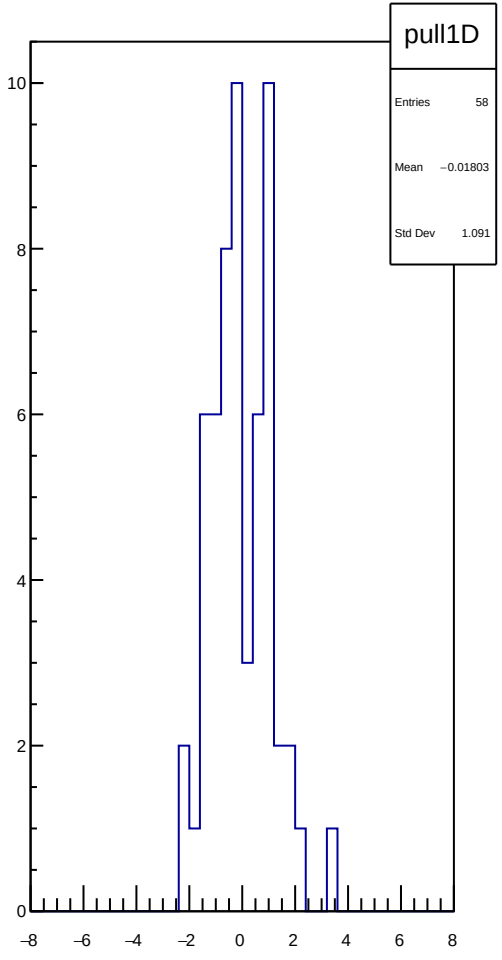

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 90.22 / 57
p0 −0.04755 ± 0.005142
pull
Entries 58
Mean −21.78
Std Dev 38.18

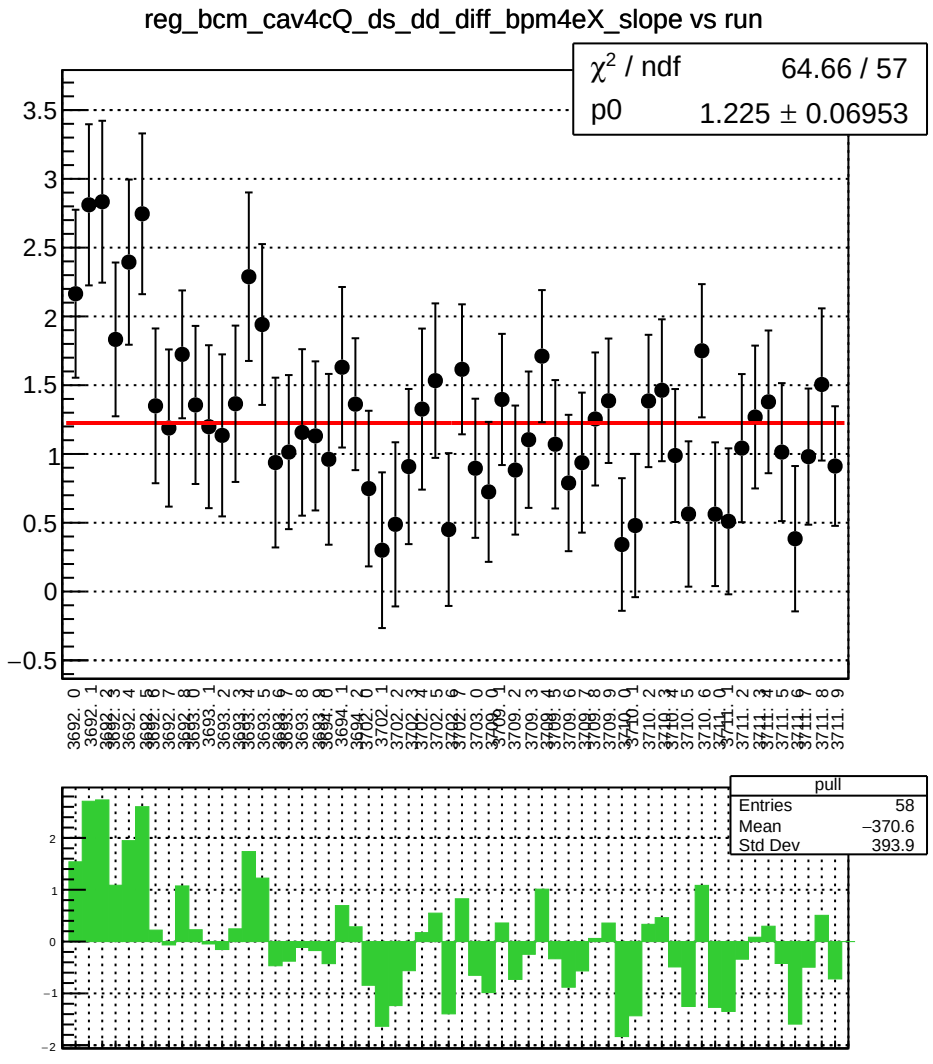

pull1D
Entries 58
Mean 0.1508
Std Dev 1.238

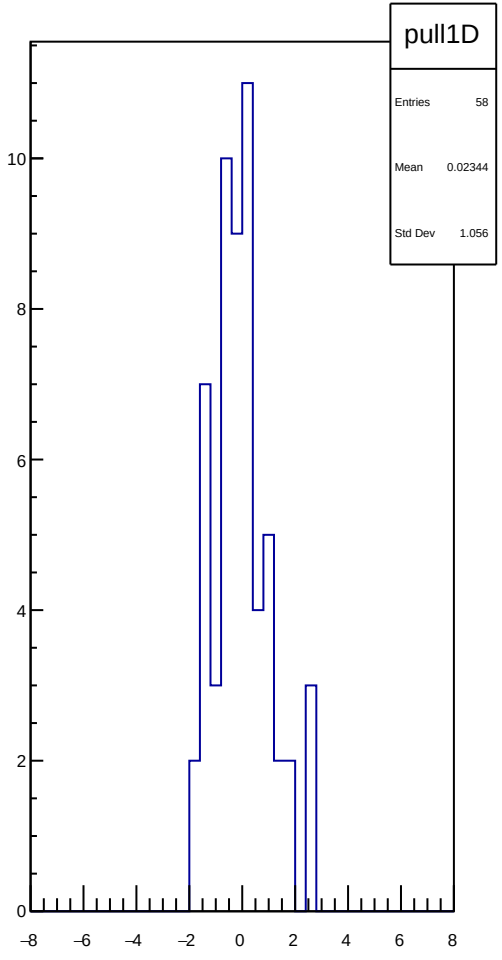

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.7 / 57
p0 −1.523 ± 0.3625
pull
Entries 58
Mean 20
Std Dev 99.08

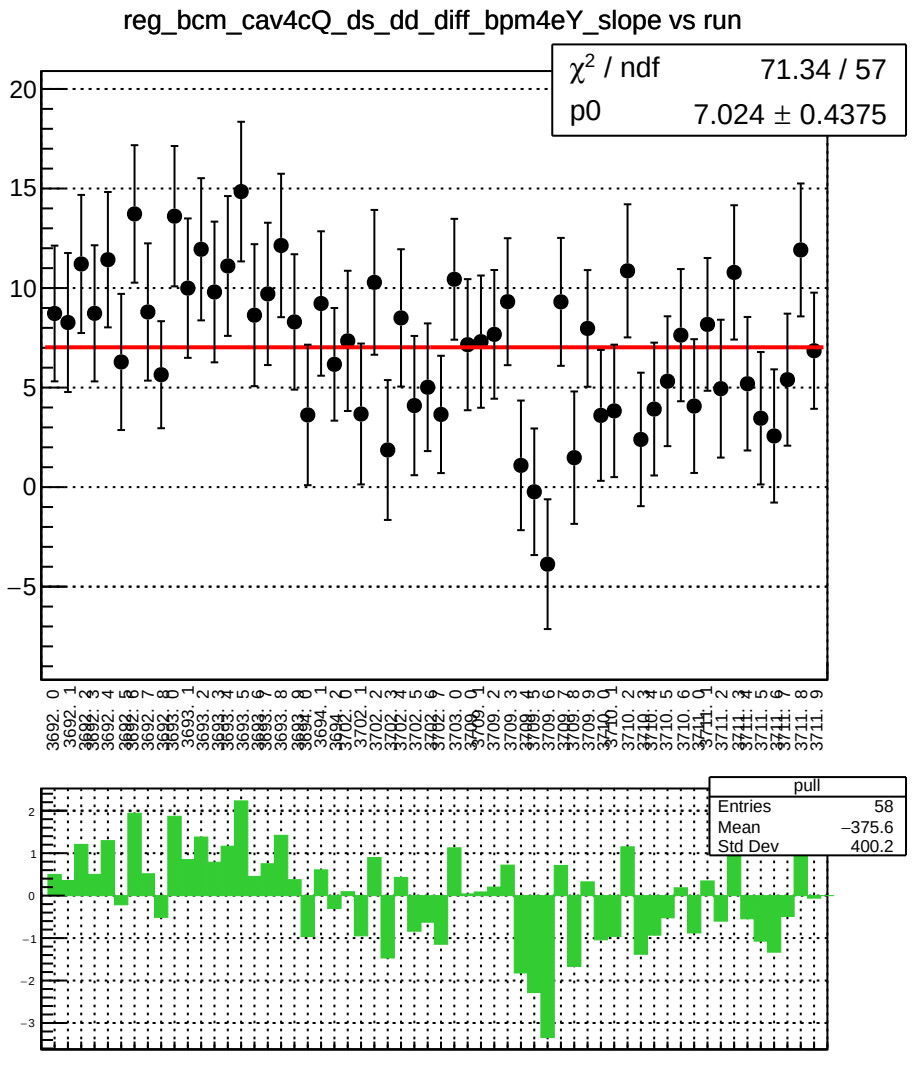

pull1D
Entries 58
Mean 0.004924
Std Dev 0.8973

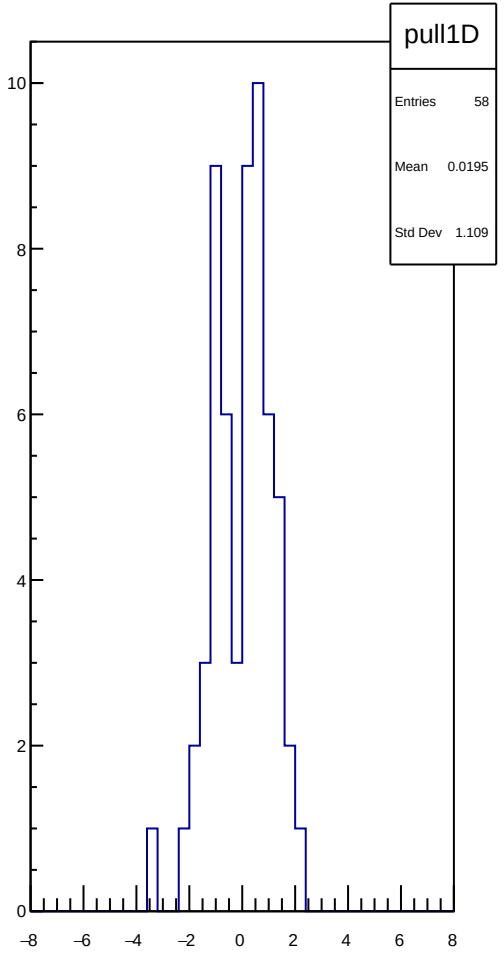

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 69 / 57
p0 −4.353 ± 0.2796
pull
Entries 58
Mean −381.6
Std Dev 407

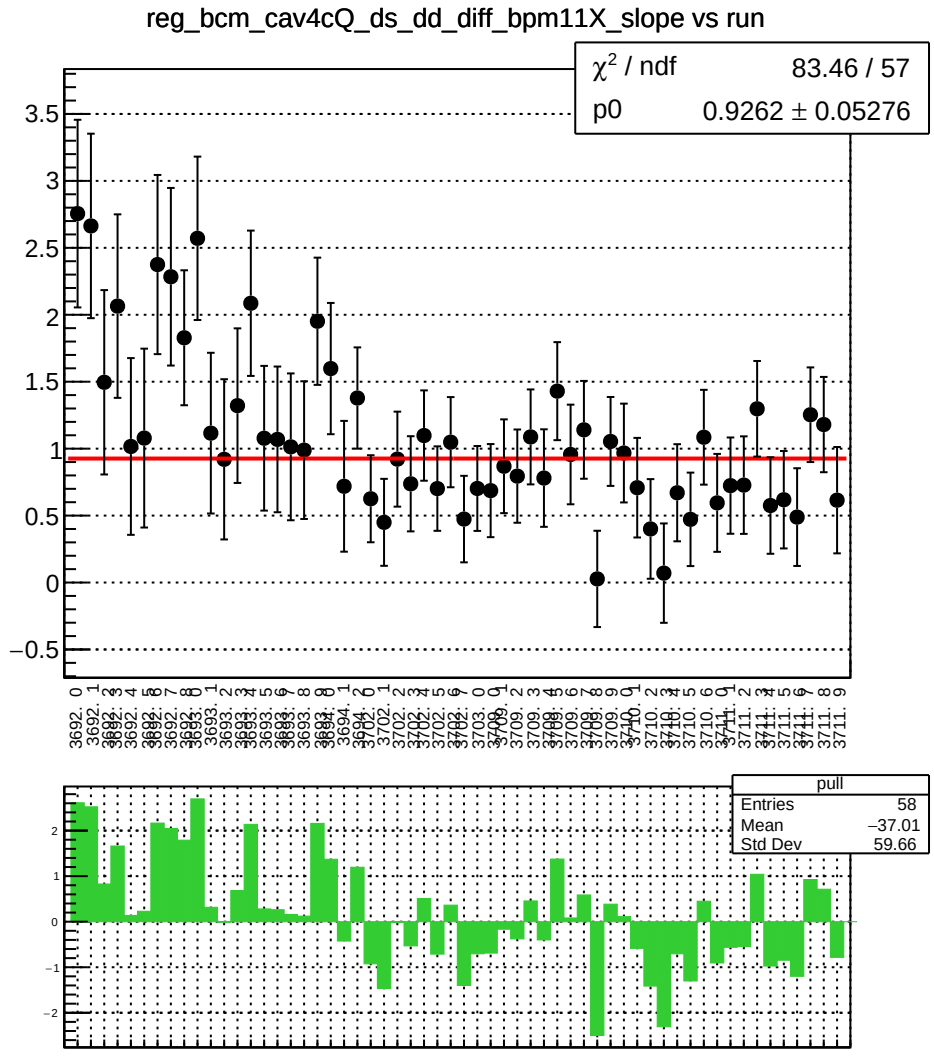

pull1D
Entries 58
Mean −0.01803
Std Dev 1.091

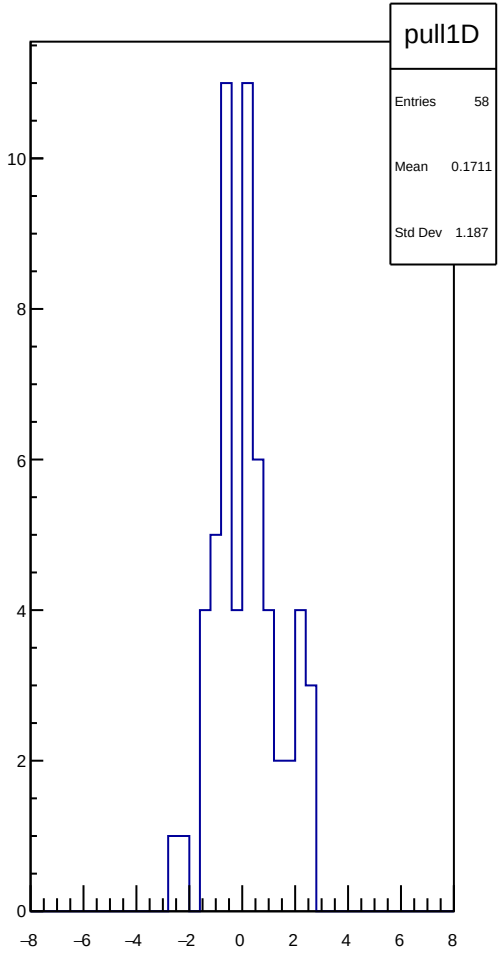

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.66 / 57
p0 1.225 ± 0.06953
pull
Entries 58
Mean −370.6
Std Dev 393.9

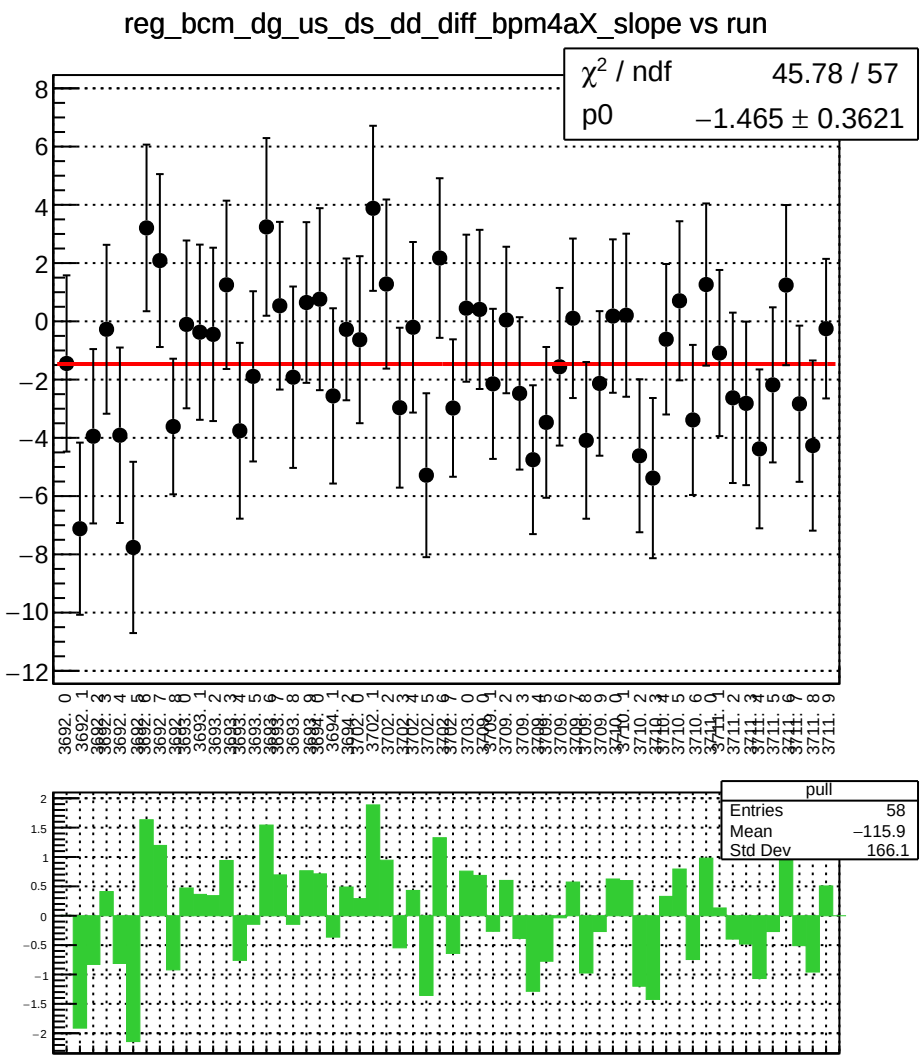

pull1D
Entries 58
Mean 0.02344
Std Dev 1.056

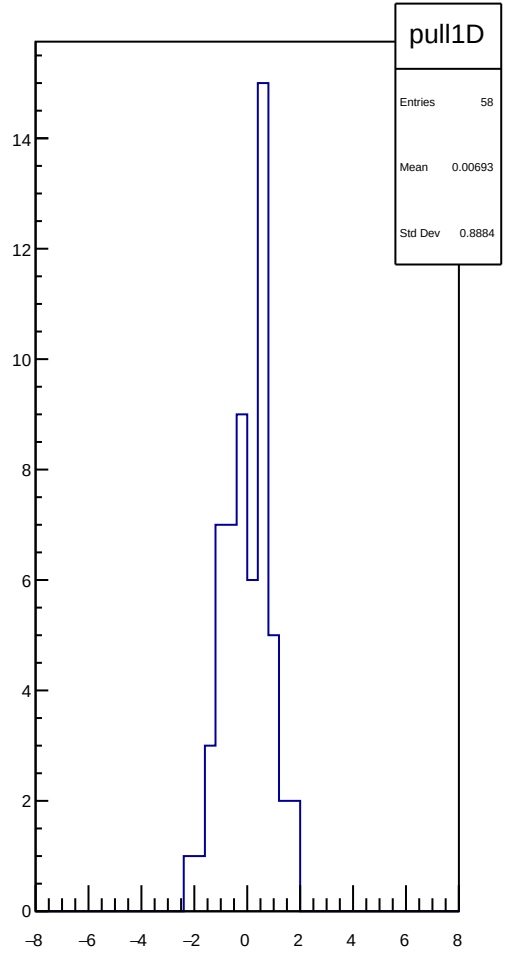

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.34 / 57
p0 7.024 ± 0.4375
pull
Entries 58
Mean −375.6
Std Dev 400.2

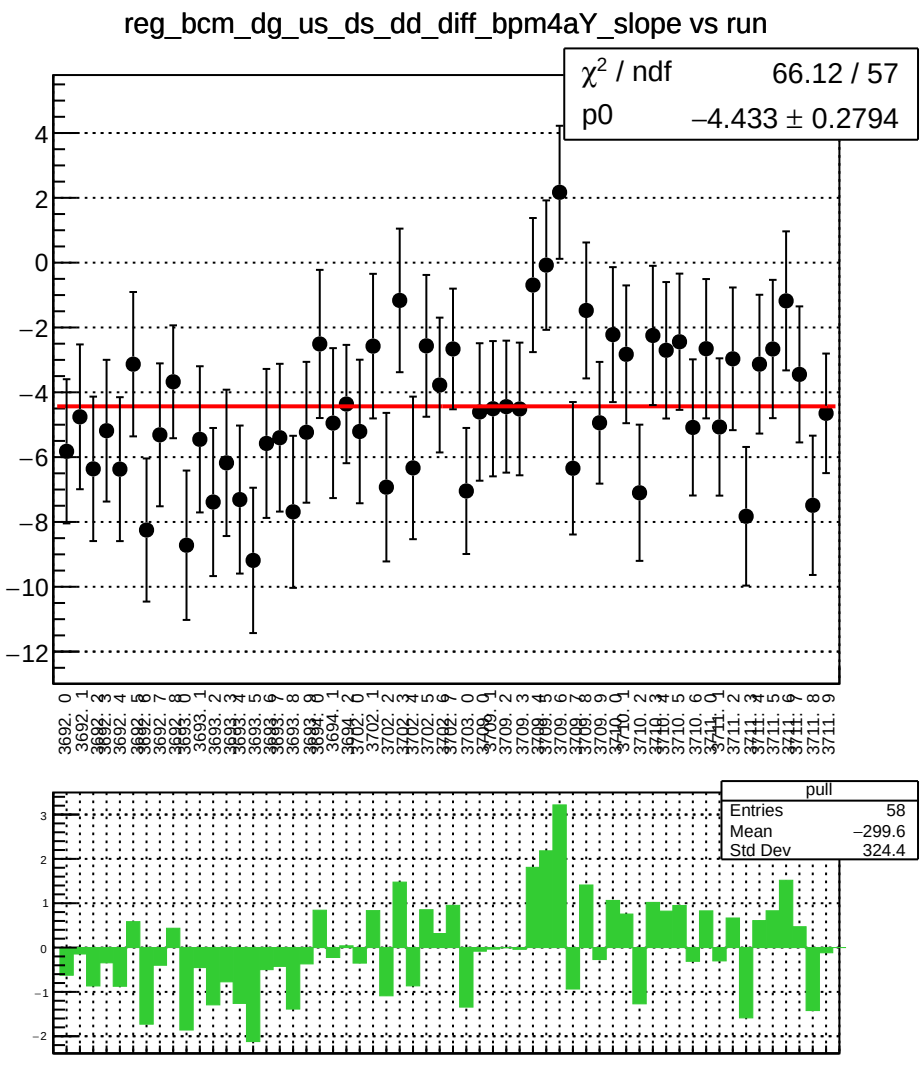

pull1D
Entries 58
Mean 0.0195
Std Dev 1.109

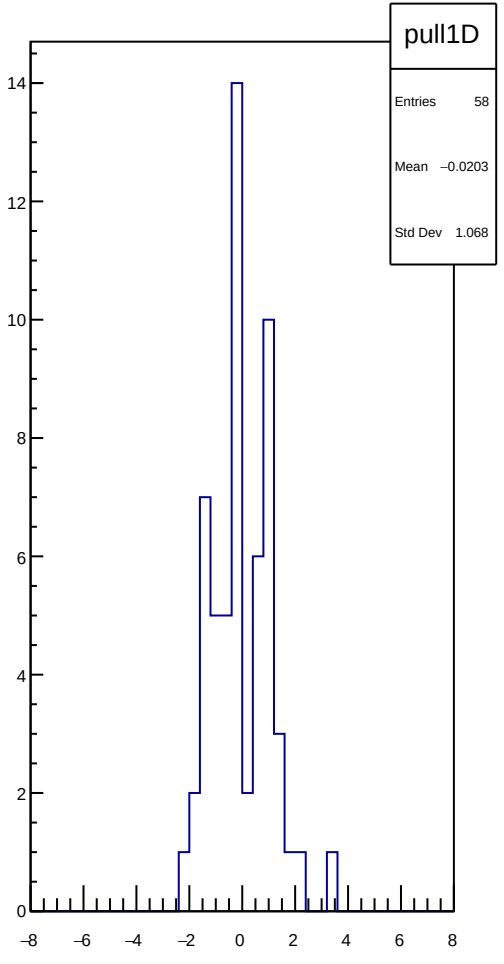

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 83.46 / 57
p0 0.9262 ± 0.05276
pull
Entries 58
Mean −37.01
Std Dev 59.66

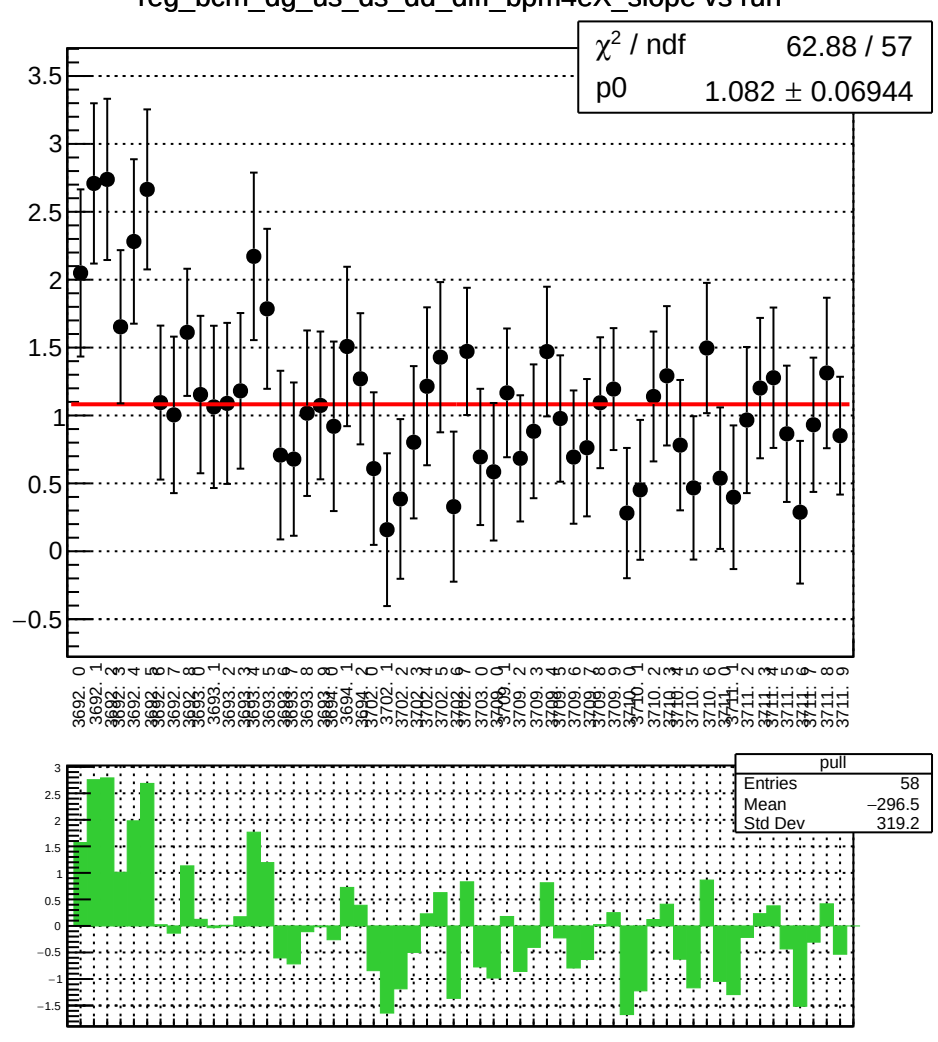

pull1D
Entries 58
Mean 0.1711
Std Dev 1.187

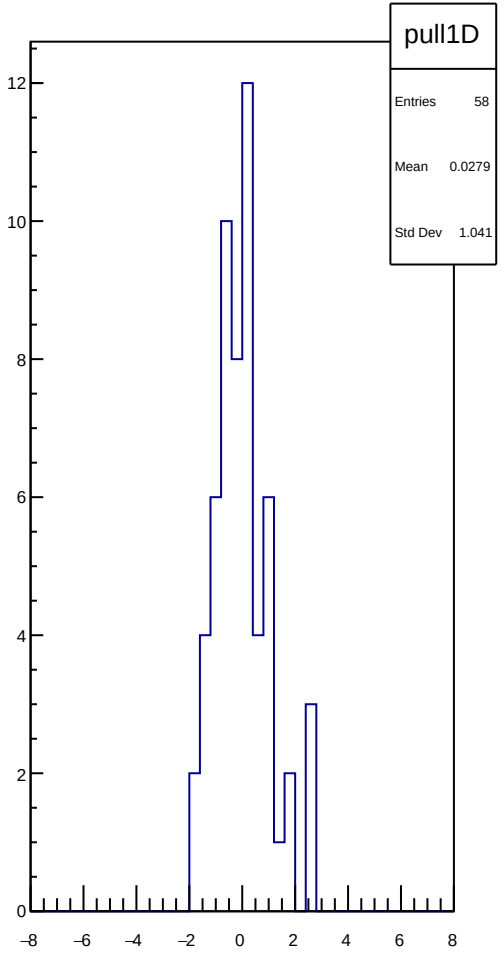

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.78 / 57
p0 −1.465 ± 0.3621
pull
Entries 58
Mean −115.9
Std Dev 166.1

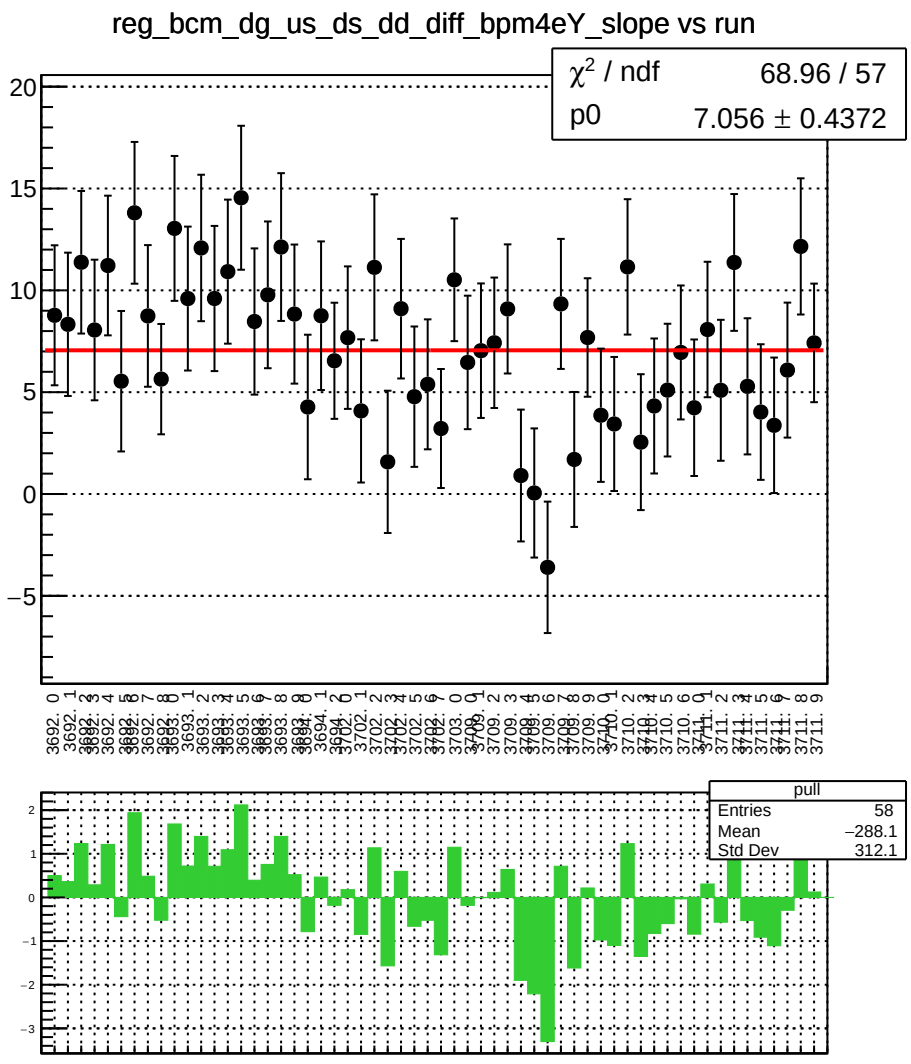

pull1D
Entries 58
Mean 0.00693
Std Dev 0.8884

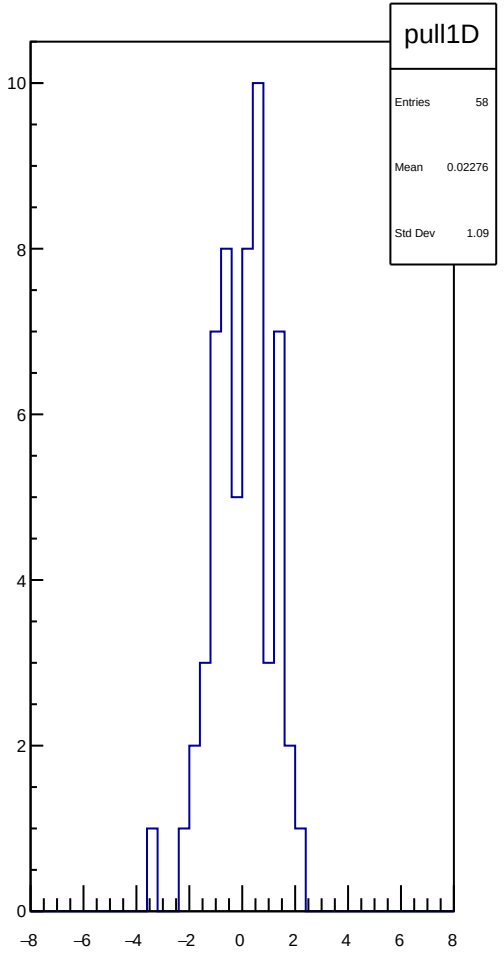

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.12 / 57
p0 −4.433 ± 0.2794
pull
Entries 58
Mean −299.6
Std Dev 324.4

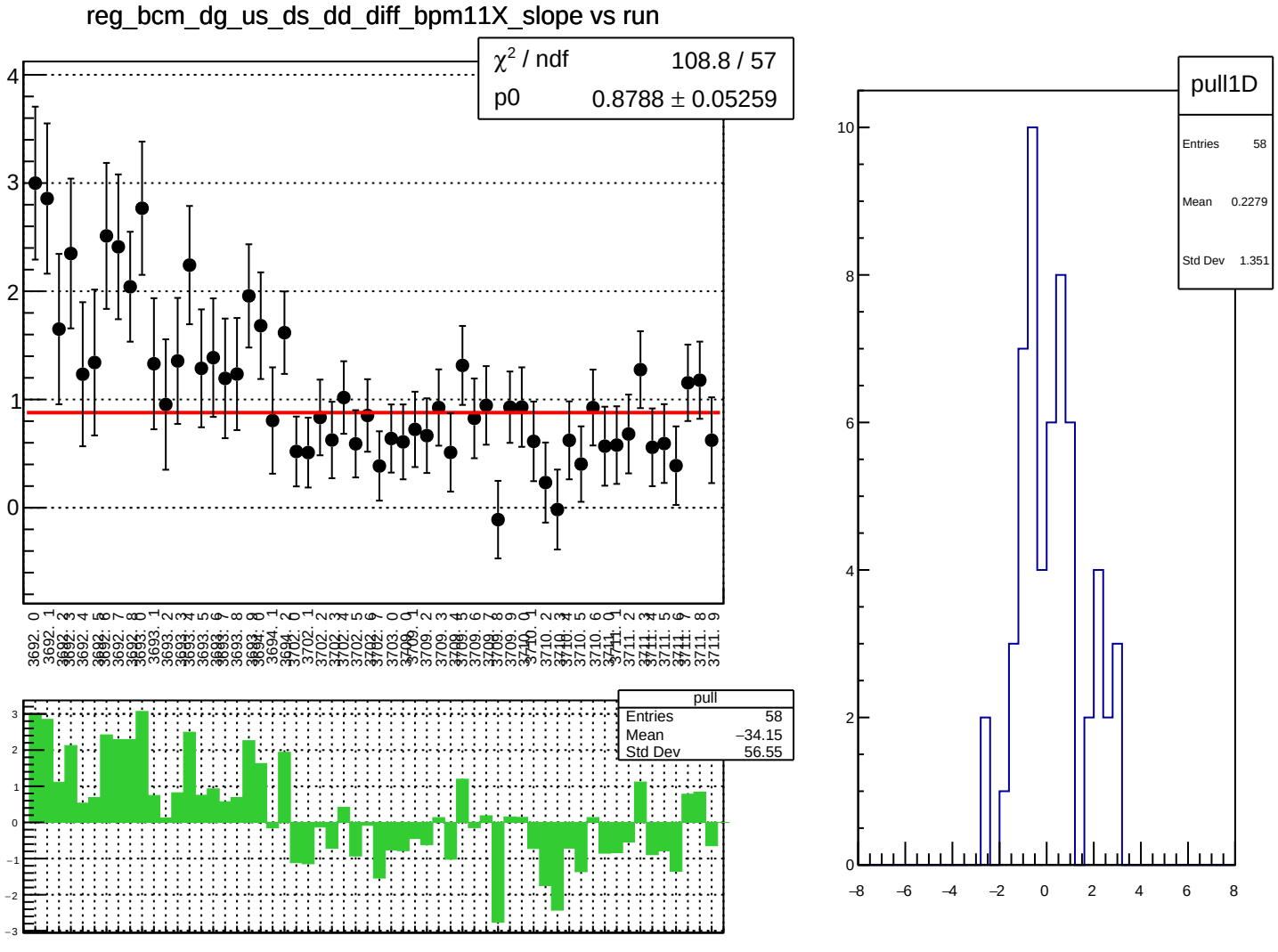

pull1D
Entries 58
Mean −0.0203
Std Dev 1.068

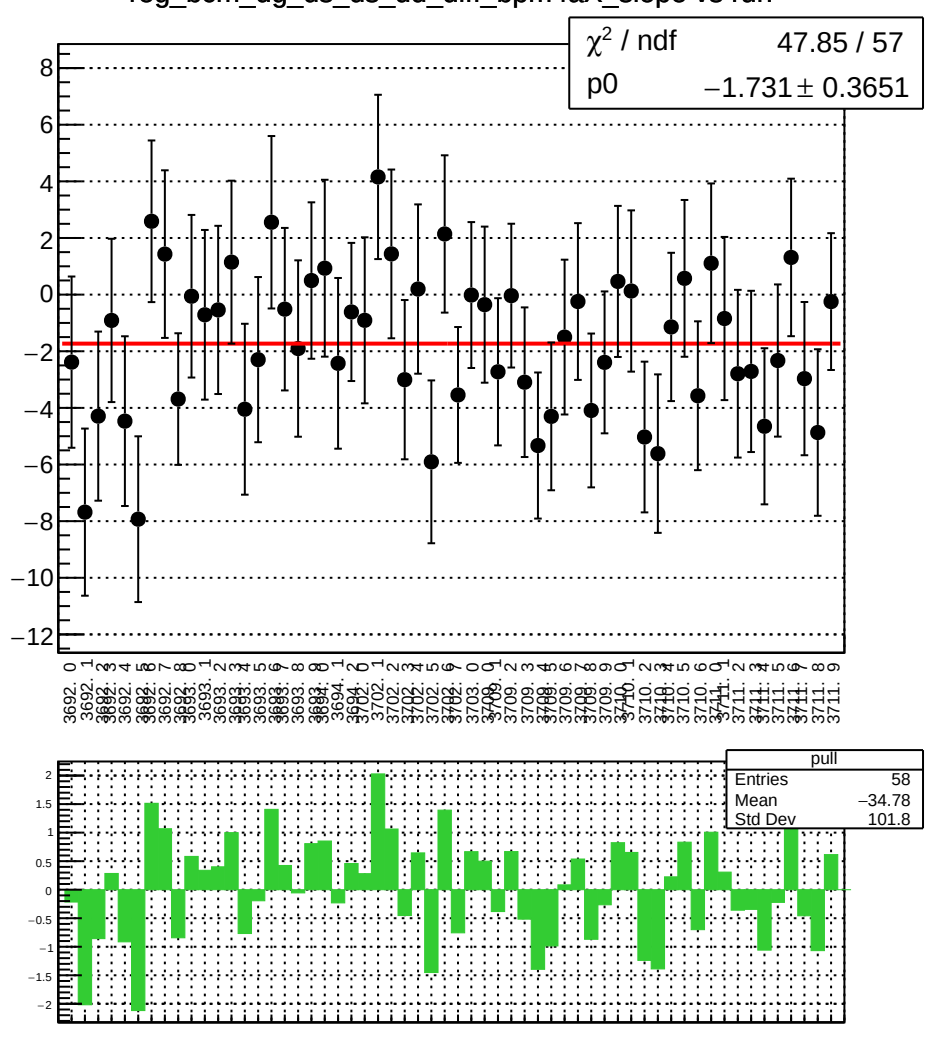

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.88 / 57
p0 1.082 ± 0.06944
pull
Entries 58
Mean −296.5
Std Dev 319.2

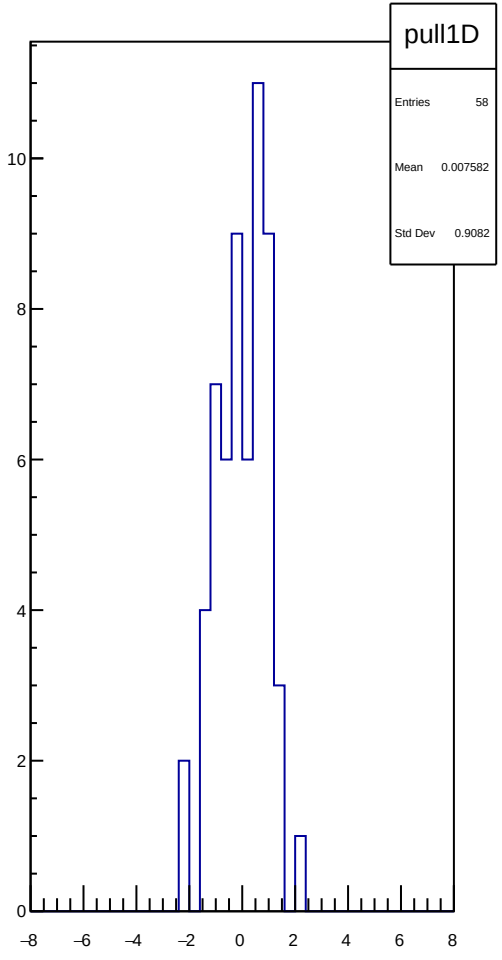

pull1D
Entries 58
Mean 0.0279
Std Dev 1.041

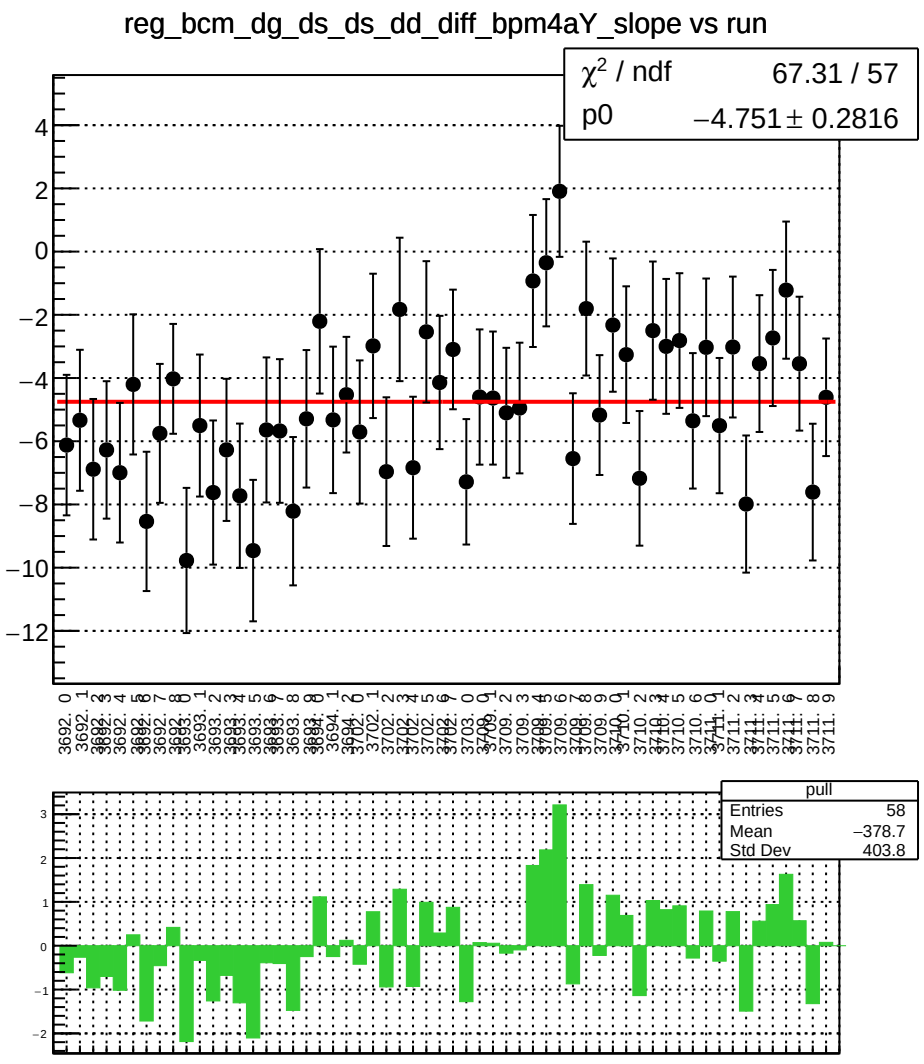

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.96 / 57
p0 7.056 ± 0.4372
pull
Entries 58
Mean −288.1
Std Dev 312.1

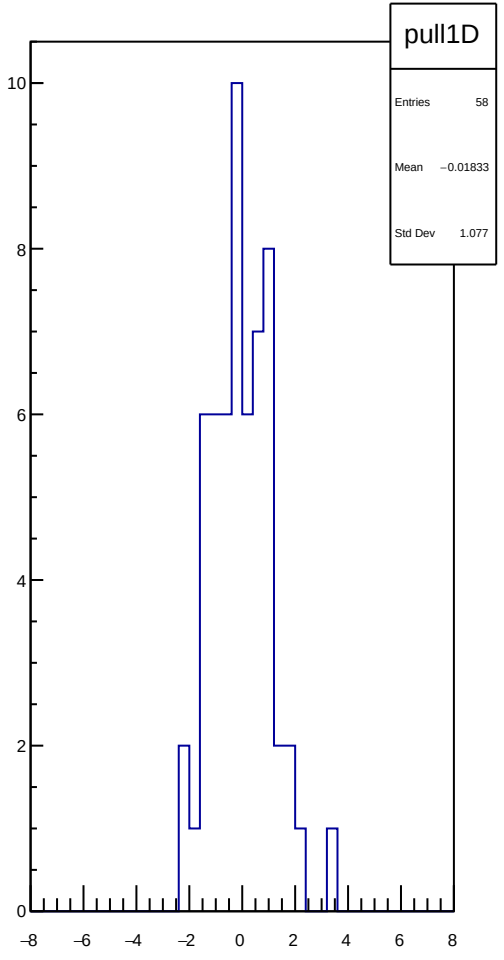

pull1D
Entries 58
Mean 0.02276
Std Dev 1.09

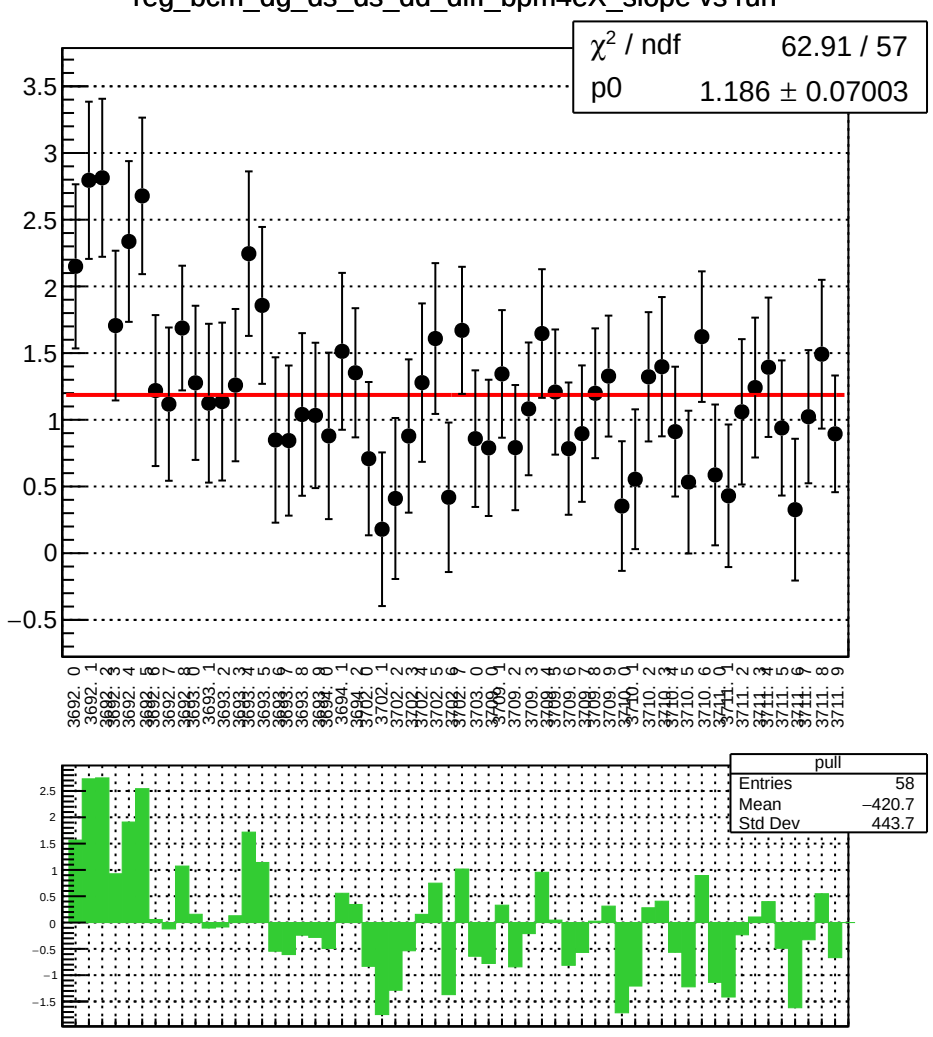

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 108.8 / 57
p0 0.8788 ± 0.05259
pull
Entries 58
Mean −34.15
Std Dev 56.55
pull1D
Entries 58
Mean 0.2279
Std Dev 1.351

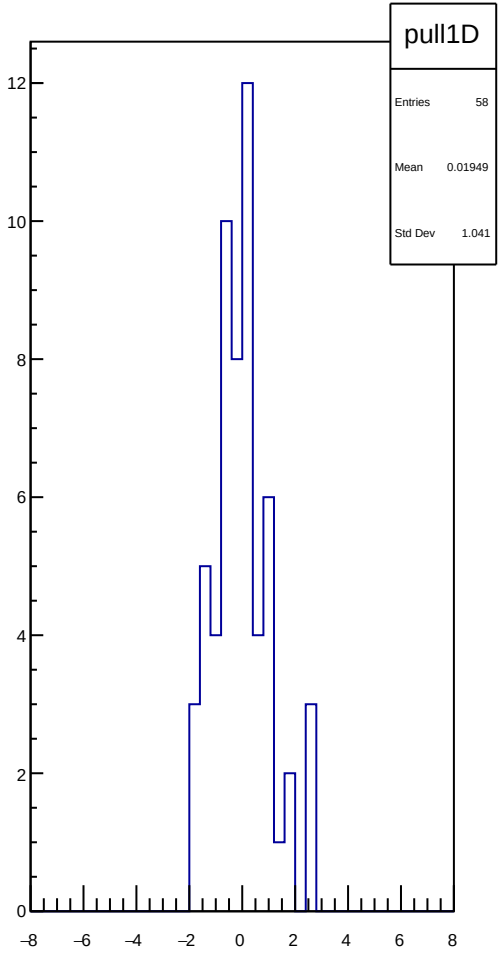

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 47.85 / 57
p0 −1.731 ± 0.3651
pull
Entries 58
Mean −34.78
Std Dev 101.8

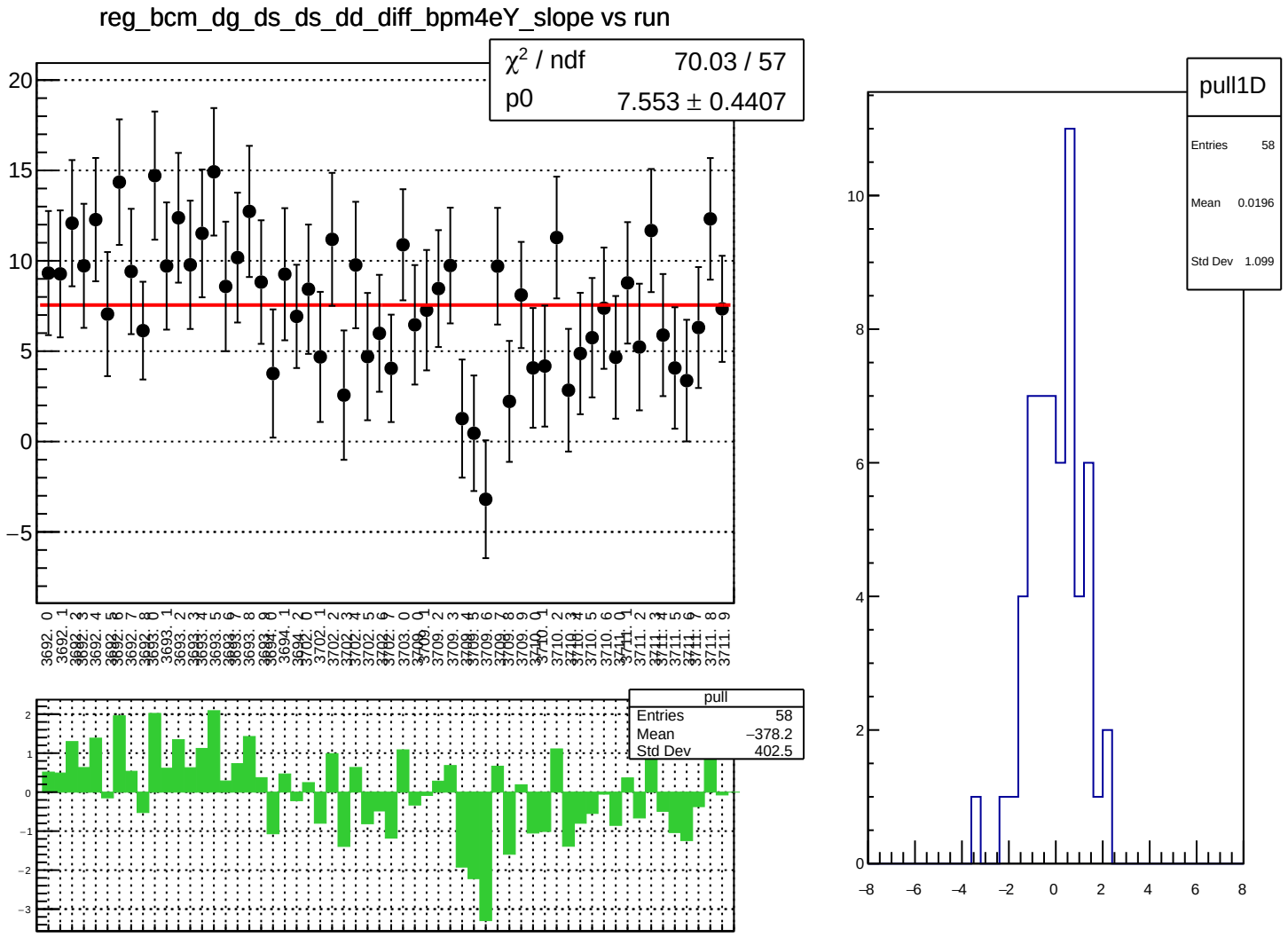

pull1D
Entries 58
Mean 0.007582
Std Dev 0.9082

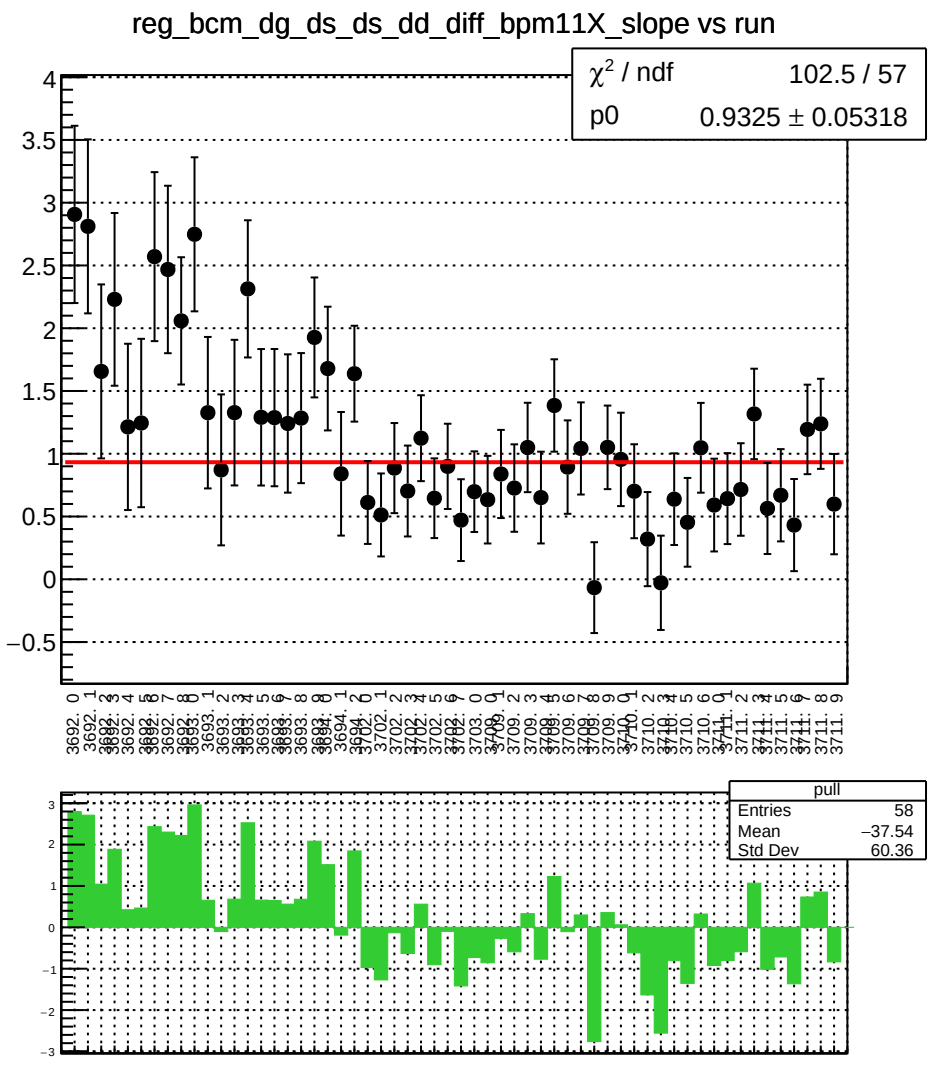

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.31 / 57
p0 −4.751 ± 0.2816
pull
Entries 58
Mean −378.7
Std Dev 403.8

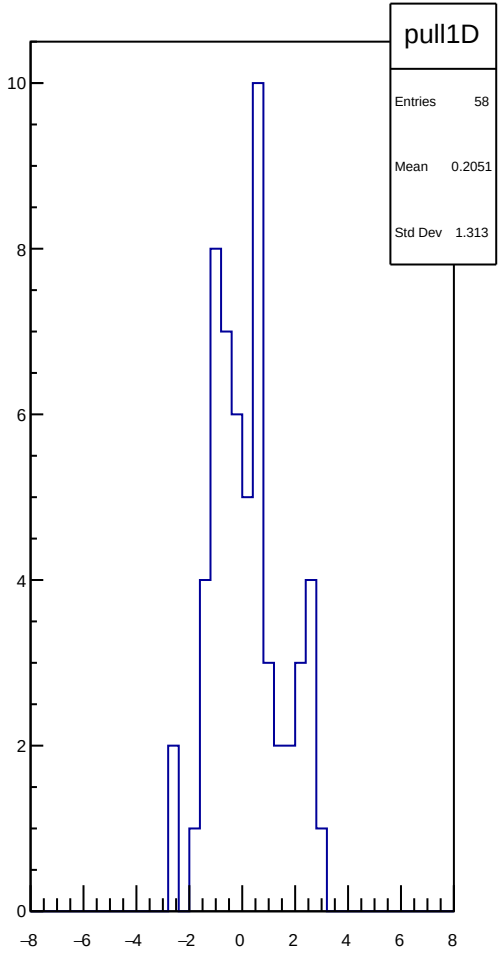

pull1D
Entries 58
Mean −0.01833
Std Dev 1.077

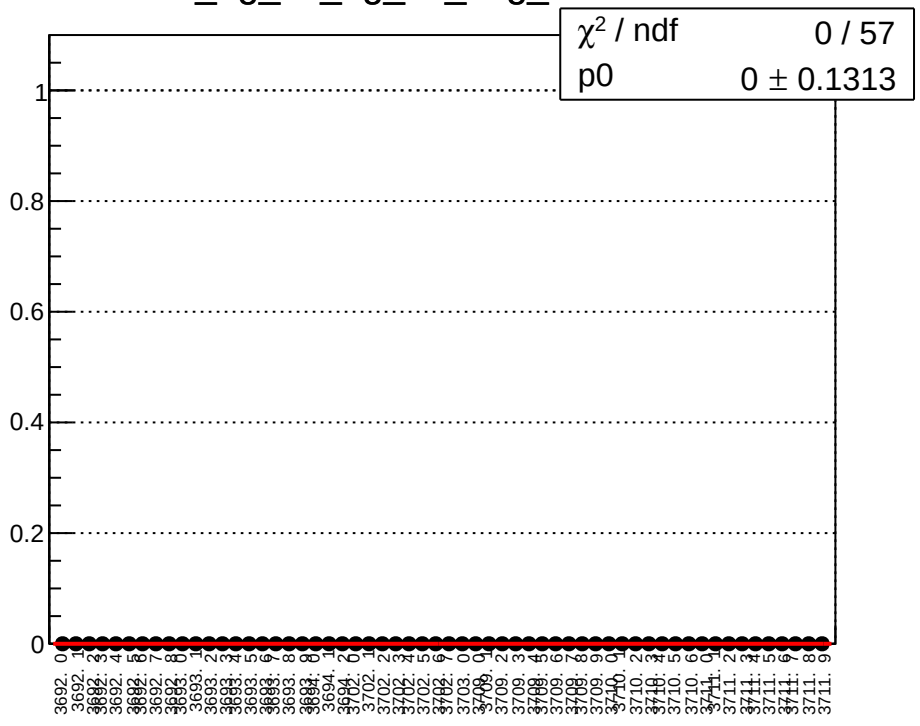

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.91 / 57
p0 1.186 ± 0.07003
pull
Entries 58
Mean −420.7
Std Dev 443.7

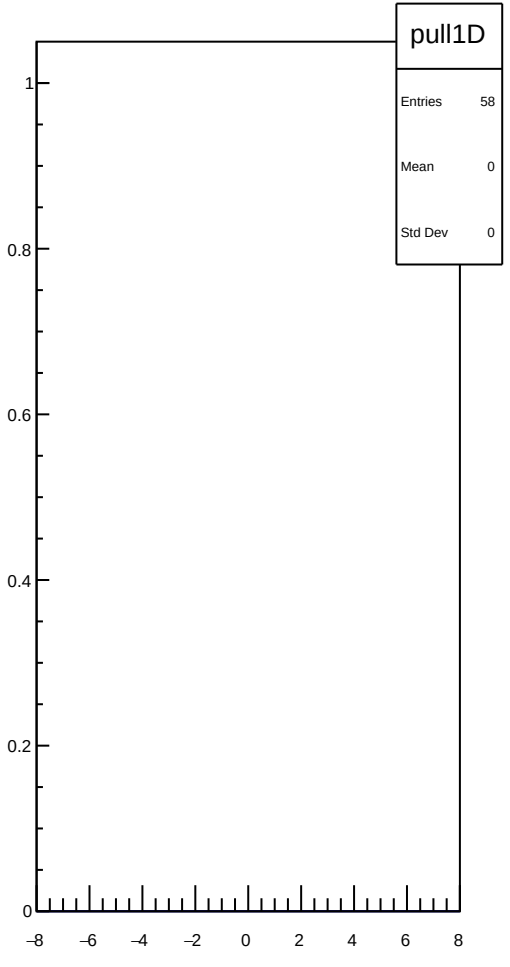

pull1D
Entries 58
Mean 0.01949
Std Dev 1.041

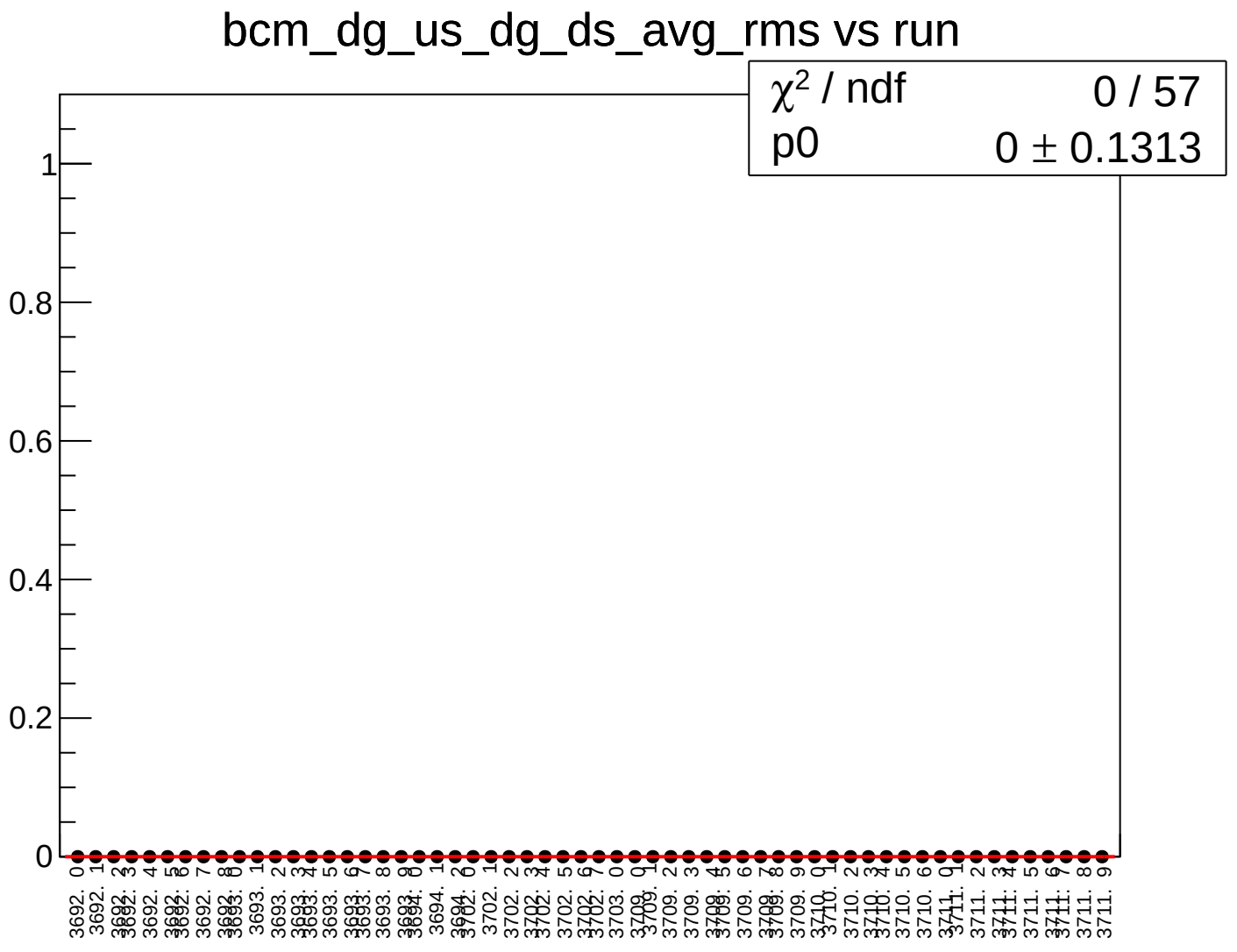

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.03 / 57
p0 7.553 ± 0.4407
pull
Entries 58
Mean −378.2
Std Dev 402.5
pull1D
Entries 58
Mean 0.0196
Std Dev 1.099

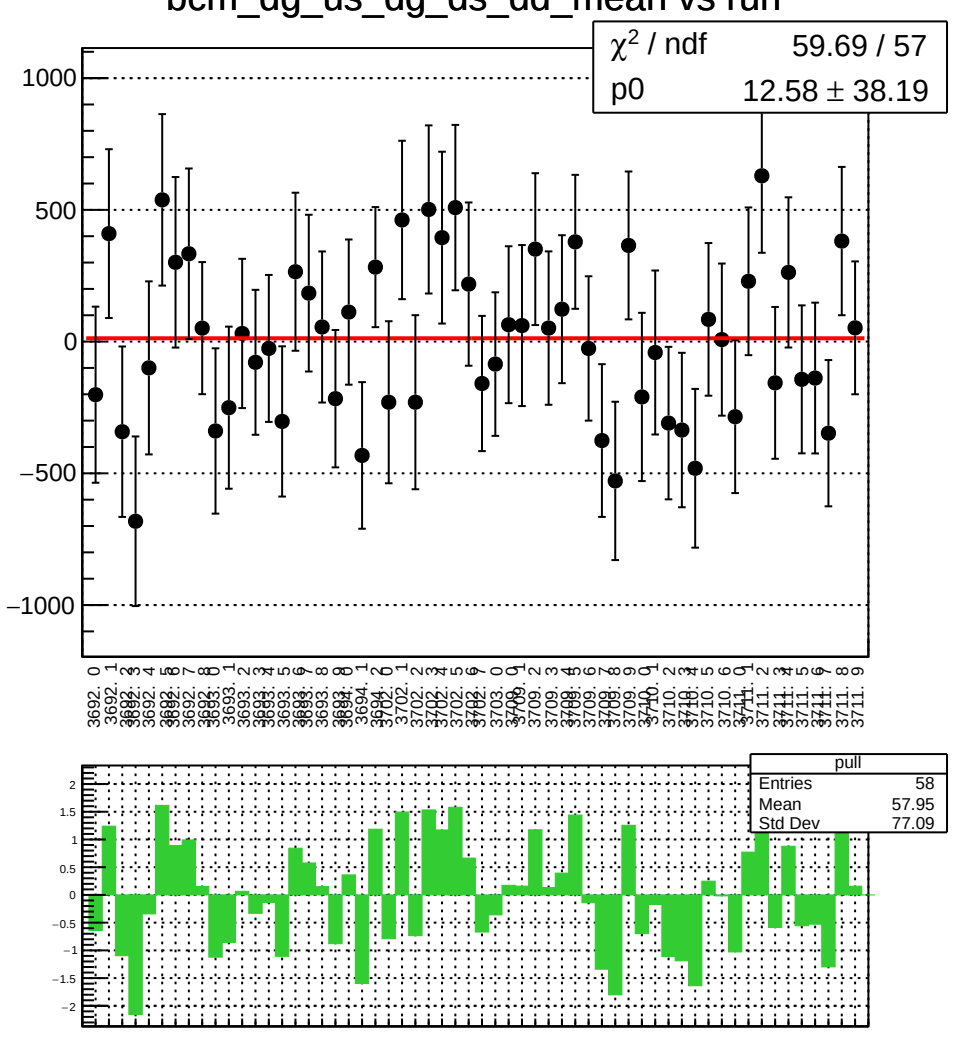

reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 102.5 / 57
p0 0.9325 ± 0.05318
pull
Entries 58
Mean −37.54
Std Dev 60.36

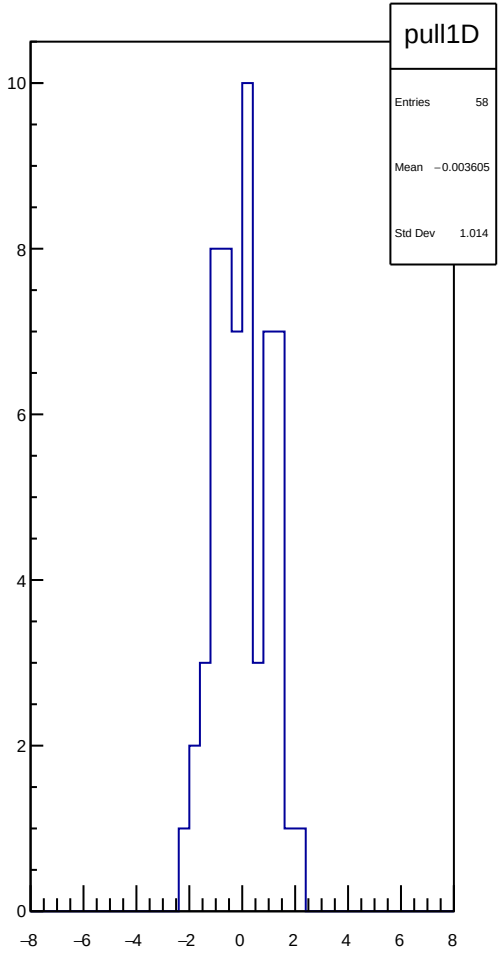

pull1D
Entries 58
Mean 0.2051
Std Dev 1.313

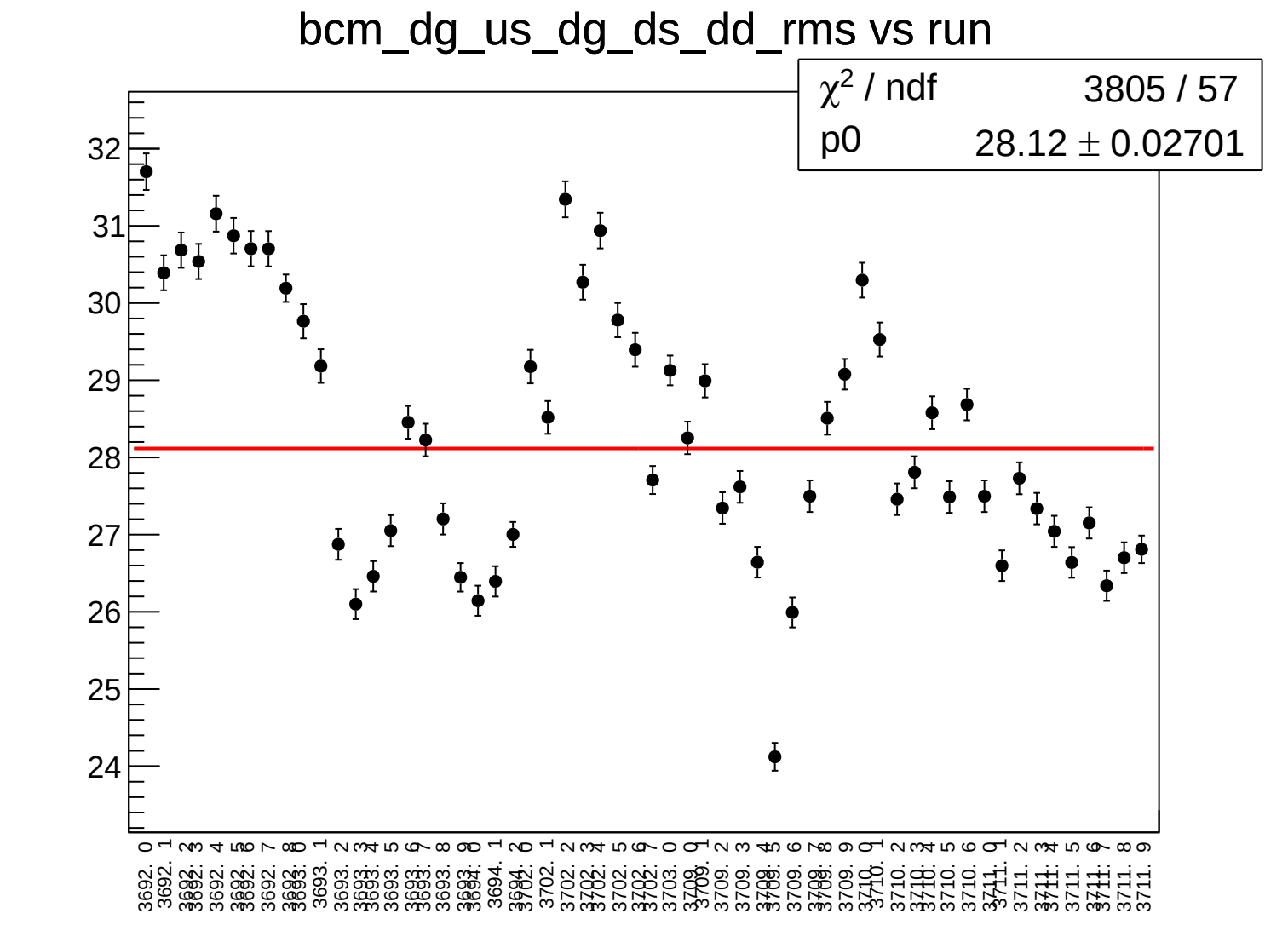

bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 58
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_dg_ds_avg_rms vs run
χ² / ndf 0 / 57
p0 0 ± 0.1313
1
0.8
0.6
0.4
0.2
0


bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 59.69 / 57
p0 12.58 ± 38.19
pull
Entries 58
Mean 57.95
Std Dev 77.09


pull1D
Entries 58
Mean −0.003605
Std Dev 1.014


bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3805 / 57
p0 28.12 ± 0.02701
32
31
30
29
28
27
26
25
24