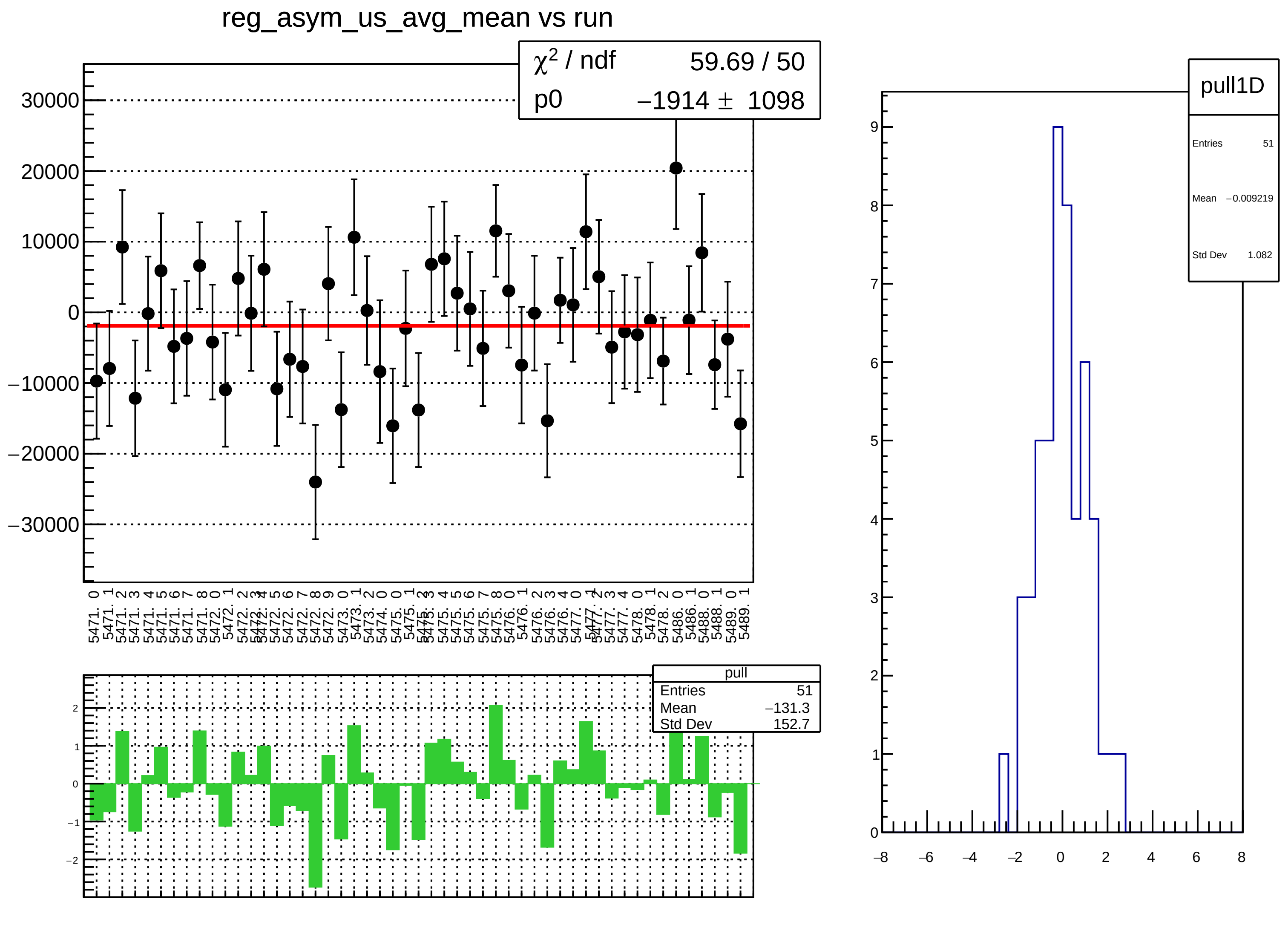
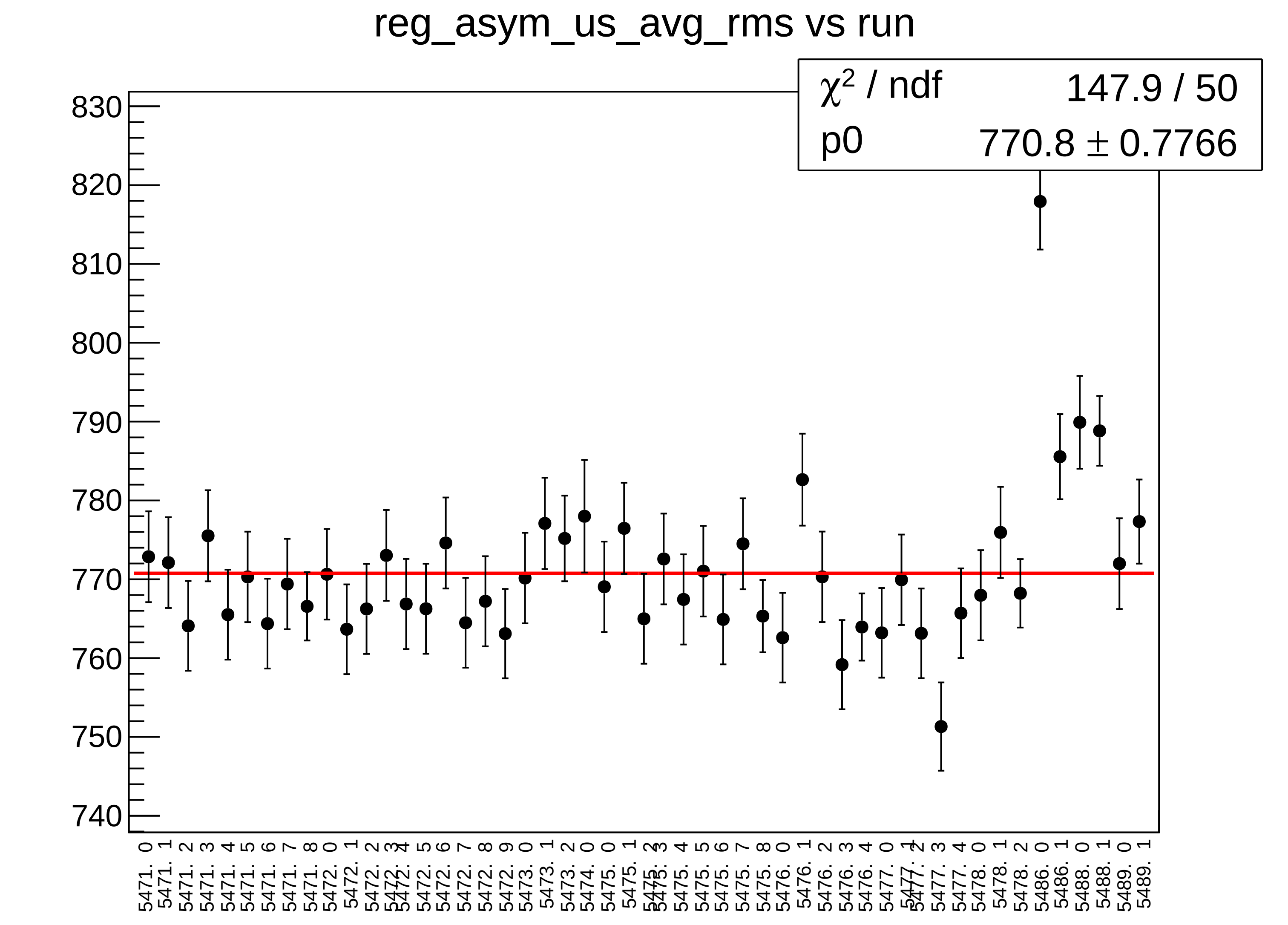
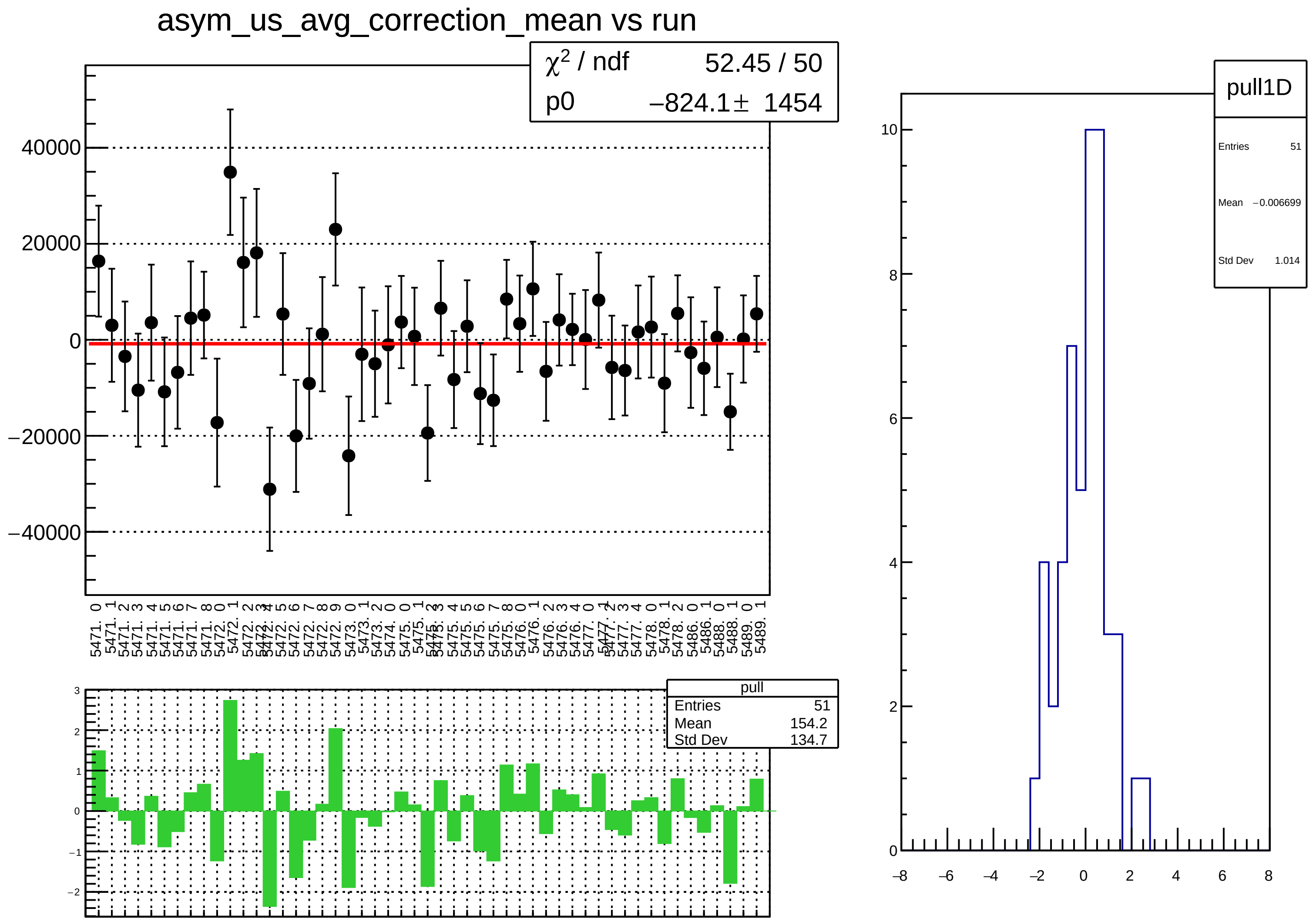
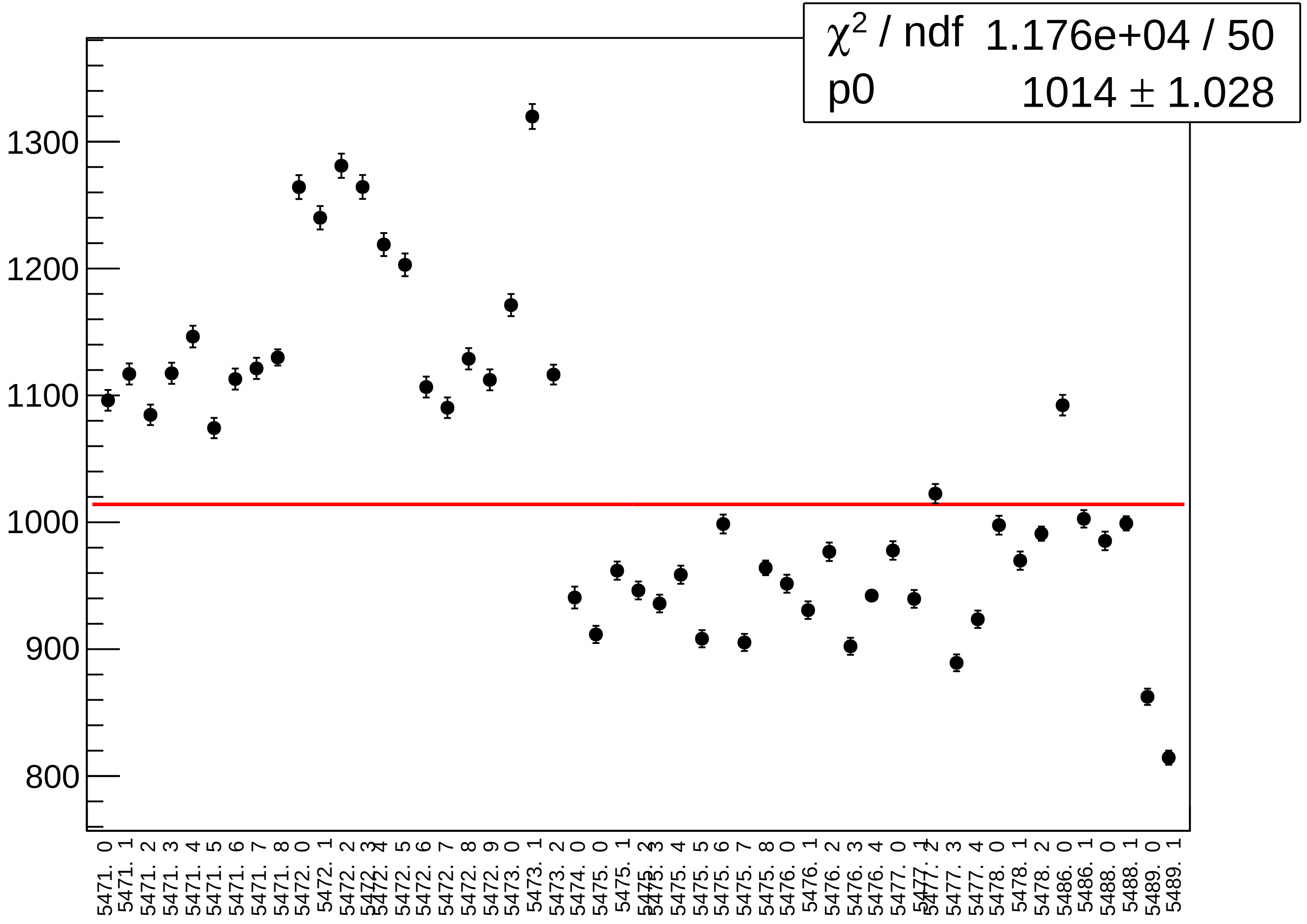

reg_asym_us_avg_mean vs run
χ^2 / ndf 59.69 / 50
p0 −1914 ± 1098
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −131.3
Std Dev 152.7
pull1D
Entries 51
Mean −0.009219
Std Dev 1.082

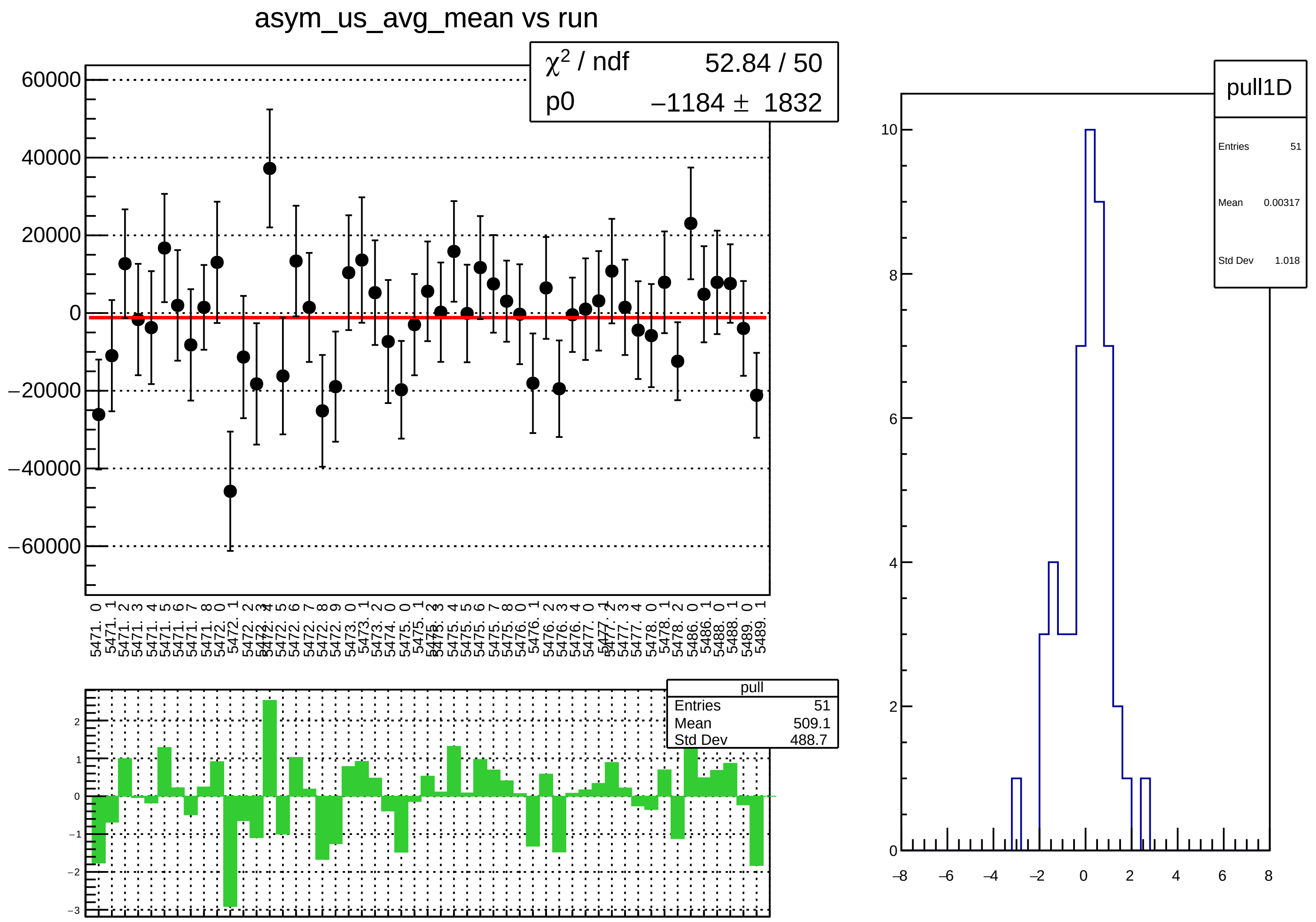

reg_asym_us_avg_rms vs run
χ^2 / ndf 147.9 / 50
p0 770.8 ± 0.7766
830
820
810
800
790
780
770
760
750
740



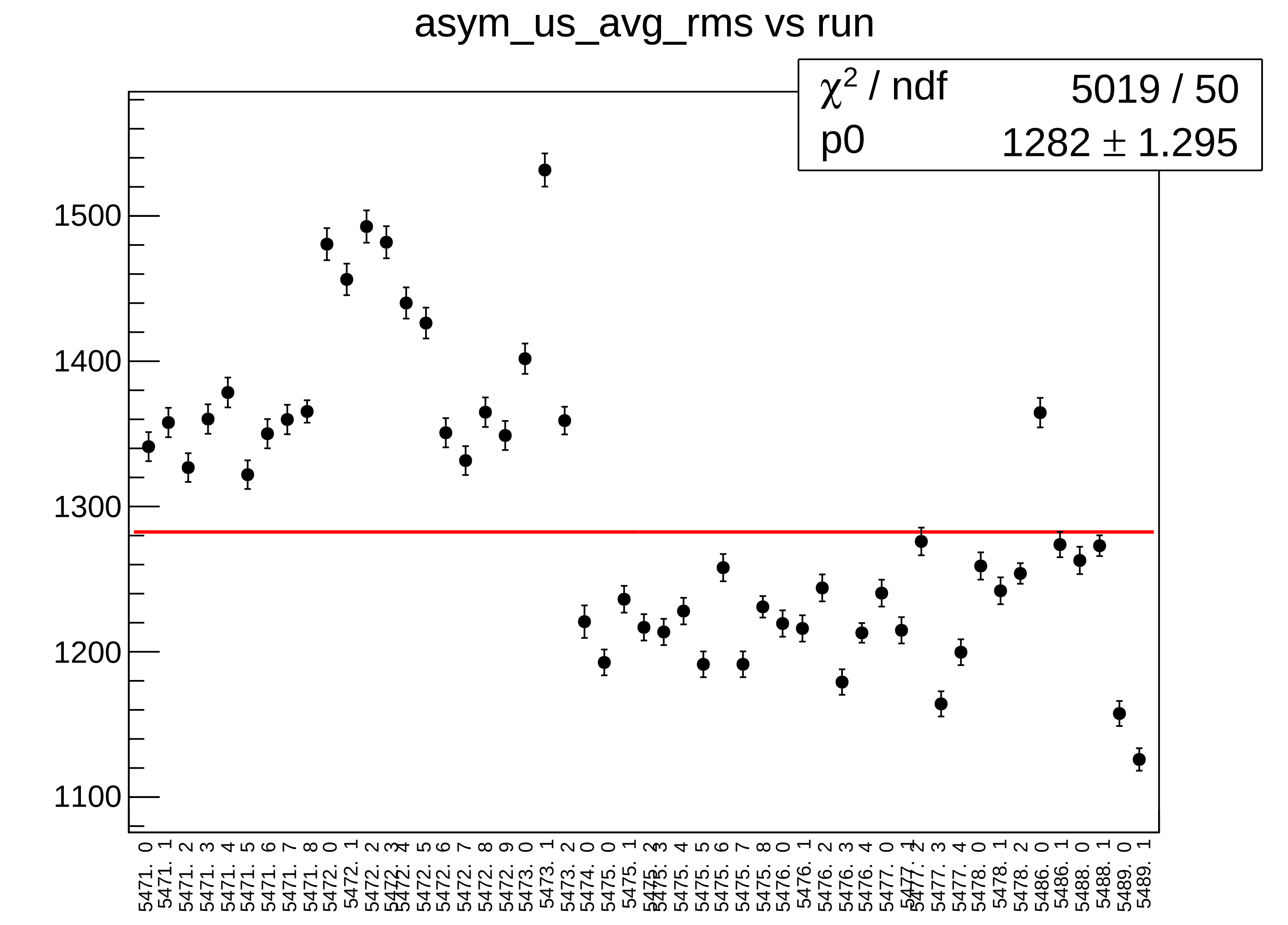
asym_us_avg_correction_mean vs run
χ^2 / ndf 52.45 / 50
p0 −824.1 ± 1454
40000
20000
0
−20000
−40000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 154.2
Std Dev 134.7
3
2
1
0
−1
−2
pull1D
Entries 51
Mean −0.006699
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_us_avg_correction_rms vs run

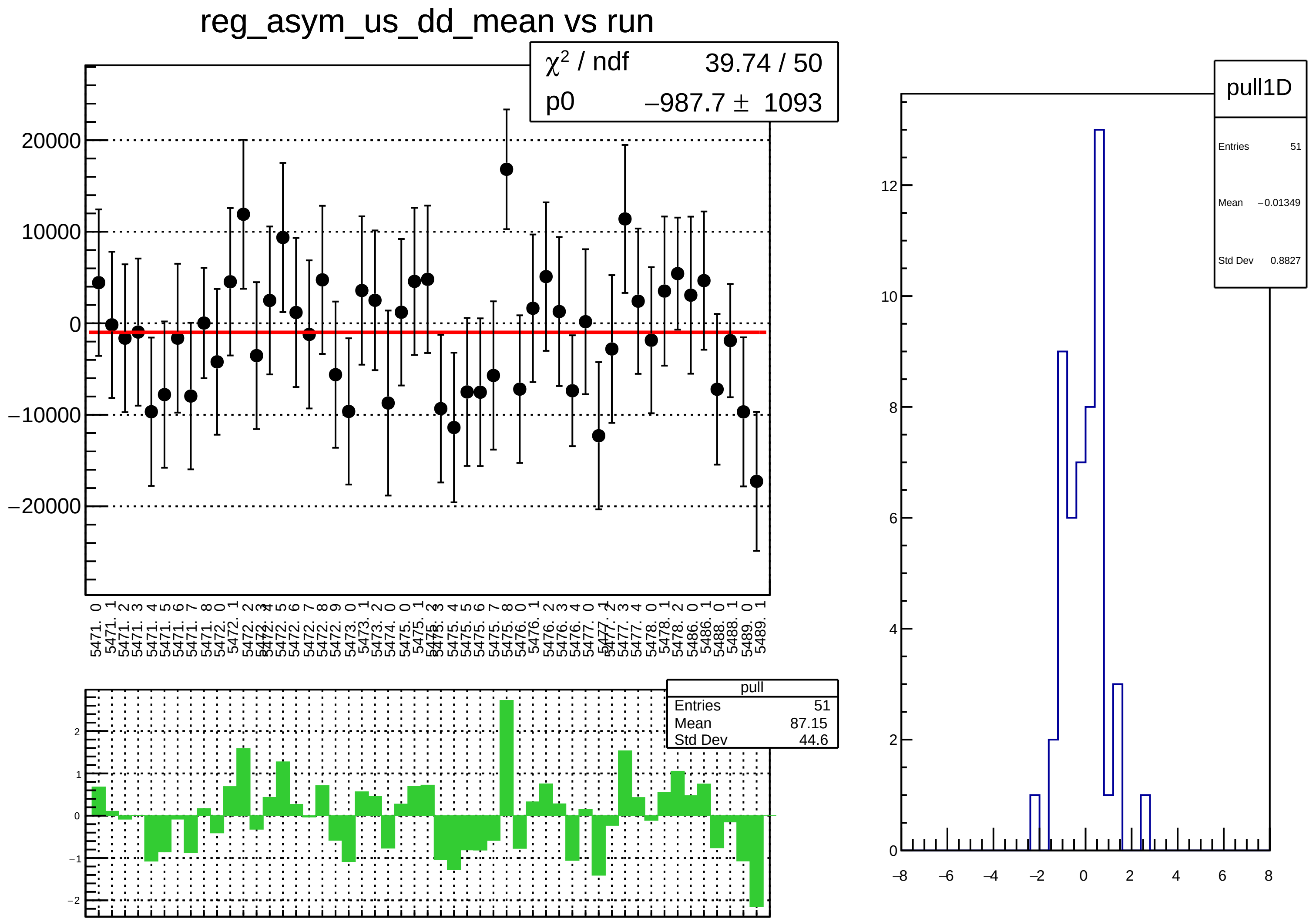


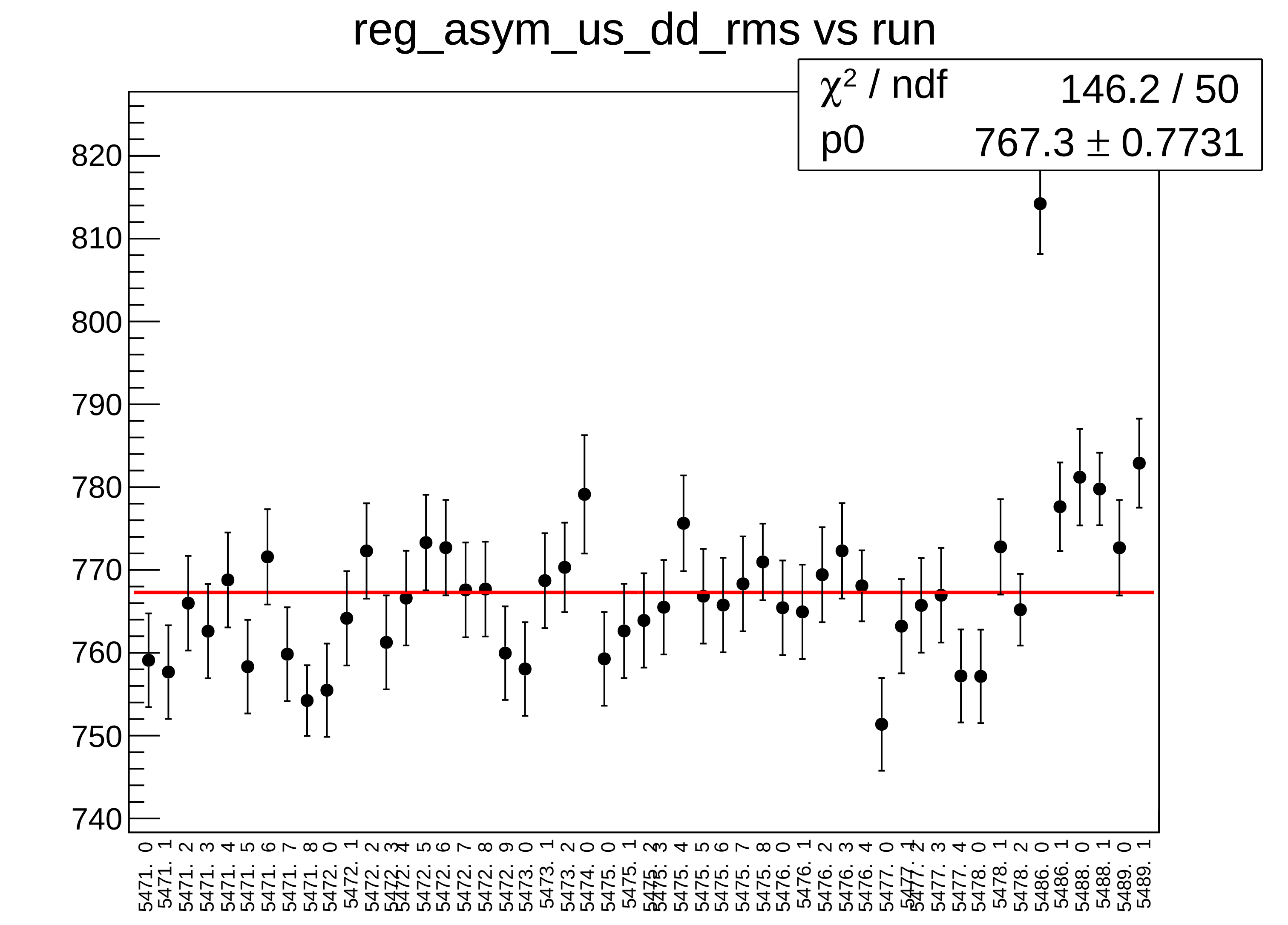


asym_us_avg_mean vs run
χ^2 / ndf 52.84 / 50
p0 −1184 ± 1832
pull
Entries 51
Mean 509.1
Std Dev 488.7
pull1D
Entries 51
Mean 0.00317
Std Dev 1.018

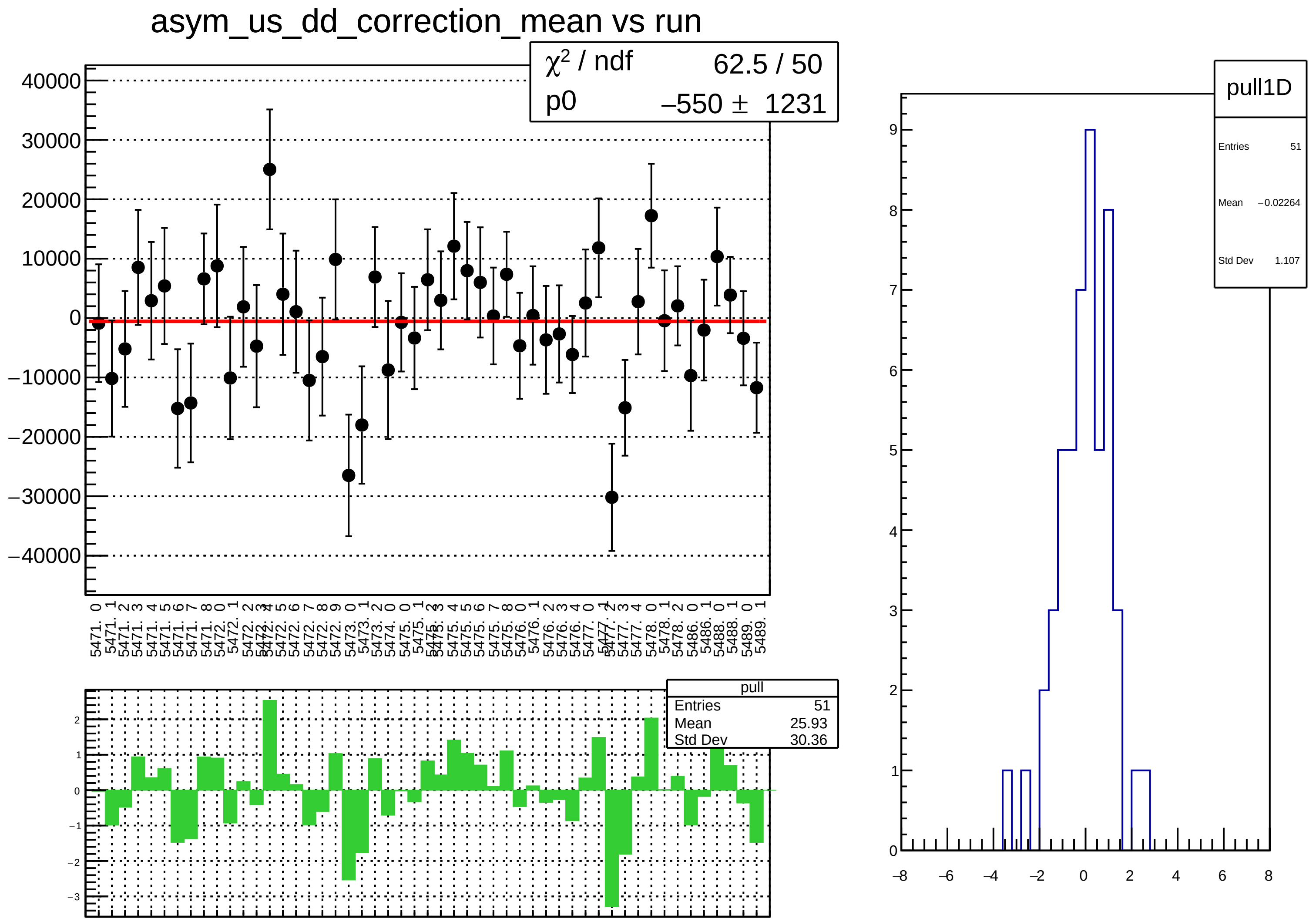


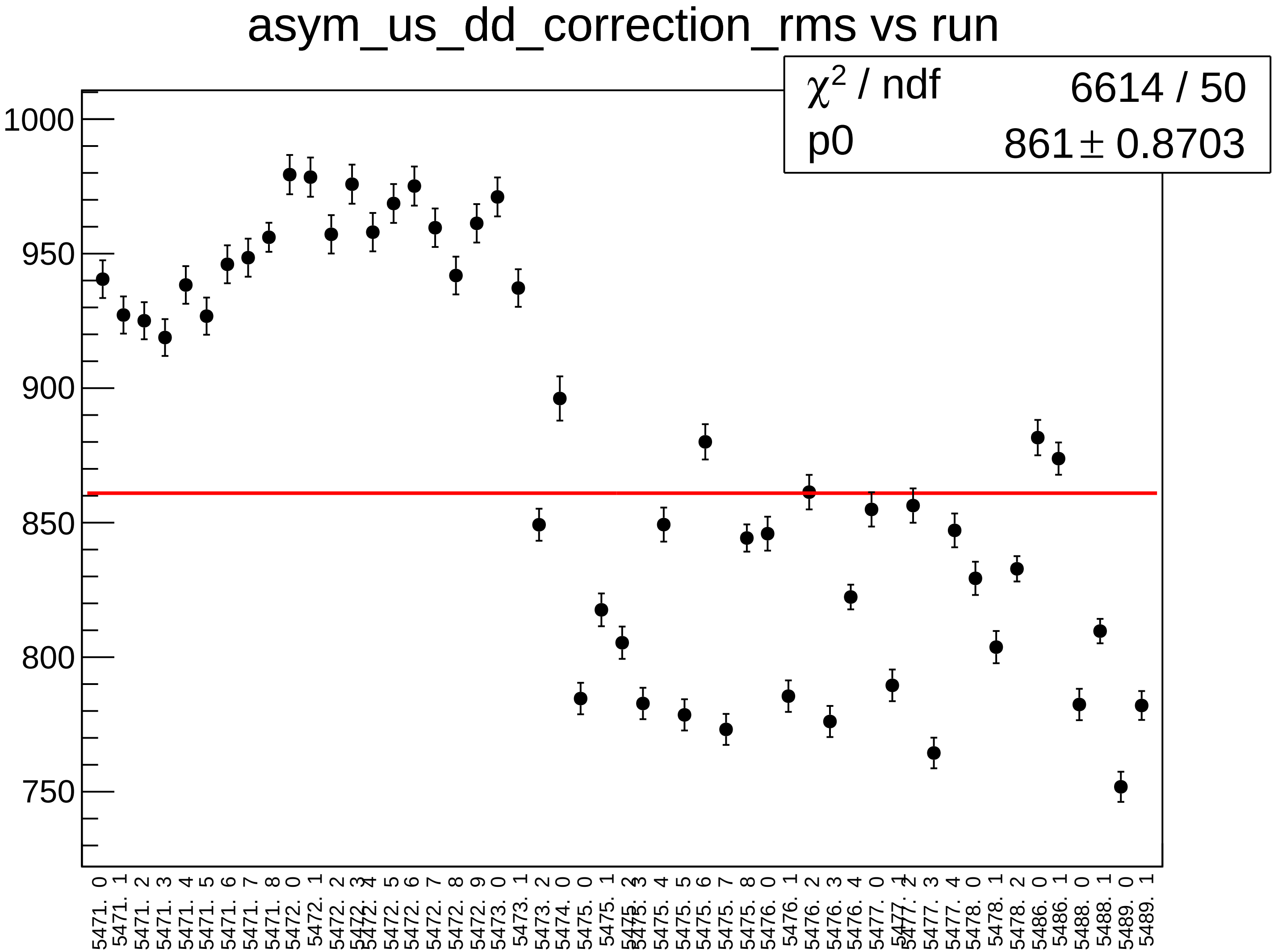
asym_us_avg_rms vs run
χ^2 / ndf 5019 / 50
p0 1282 ± 1.295
1500
1400
1300
1200
1100


reg_asym_us_dd_mean vs run
χ2 / ndf 39.74 / 50
p0 −987.7 ± 1093
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 87.15
Std Dev 44.6
pull1D
Entries 51
Mean −0.01349
Std Dev 0.8827
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

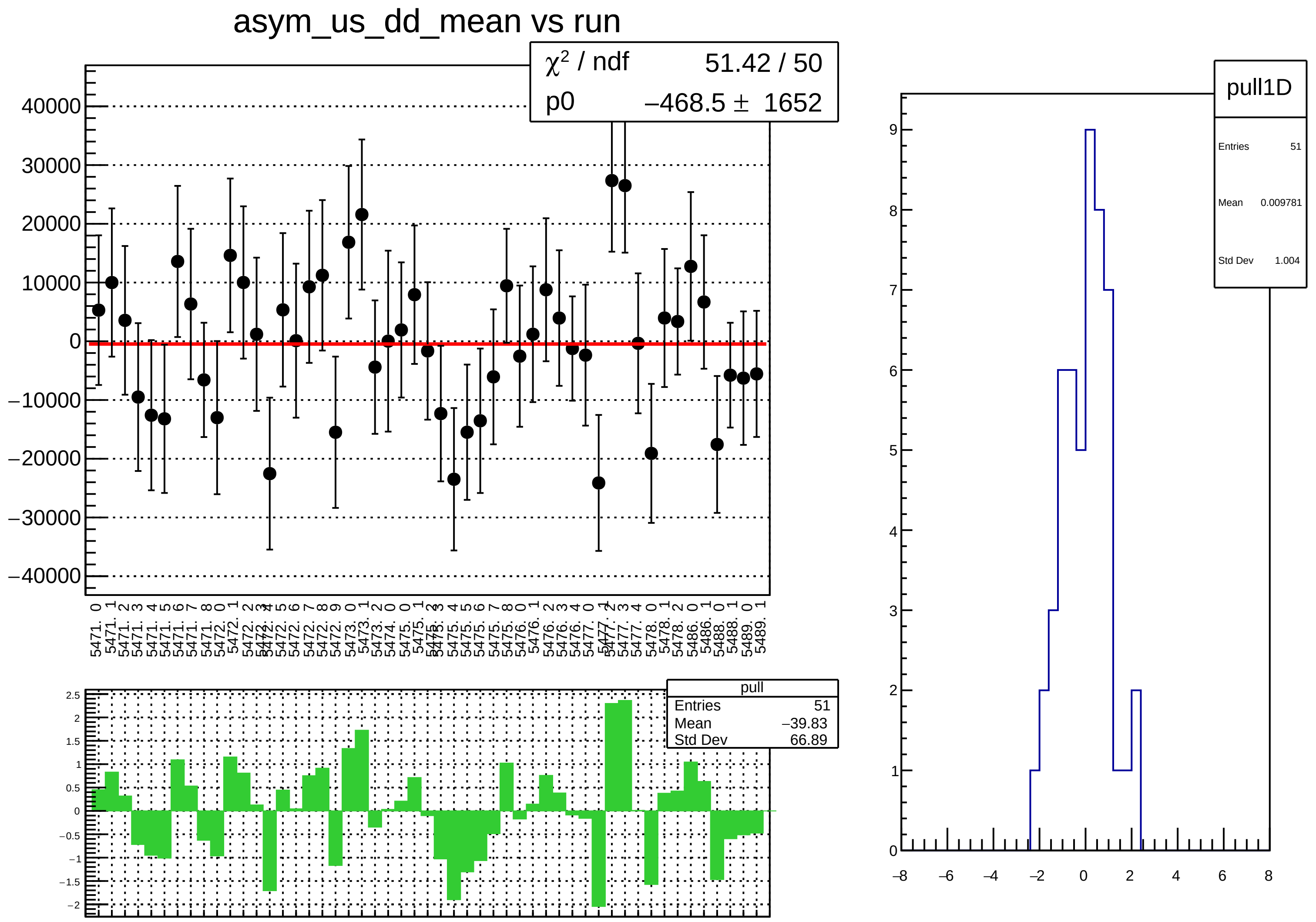


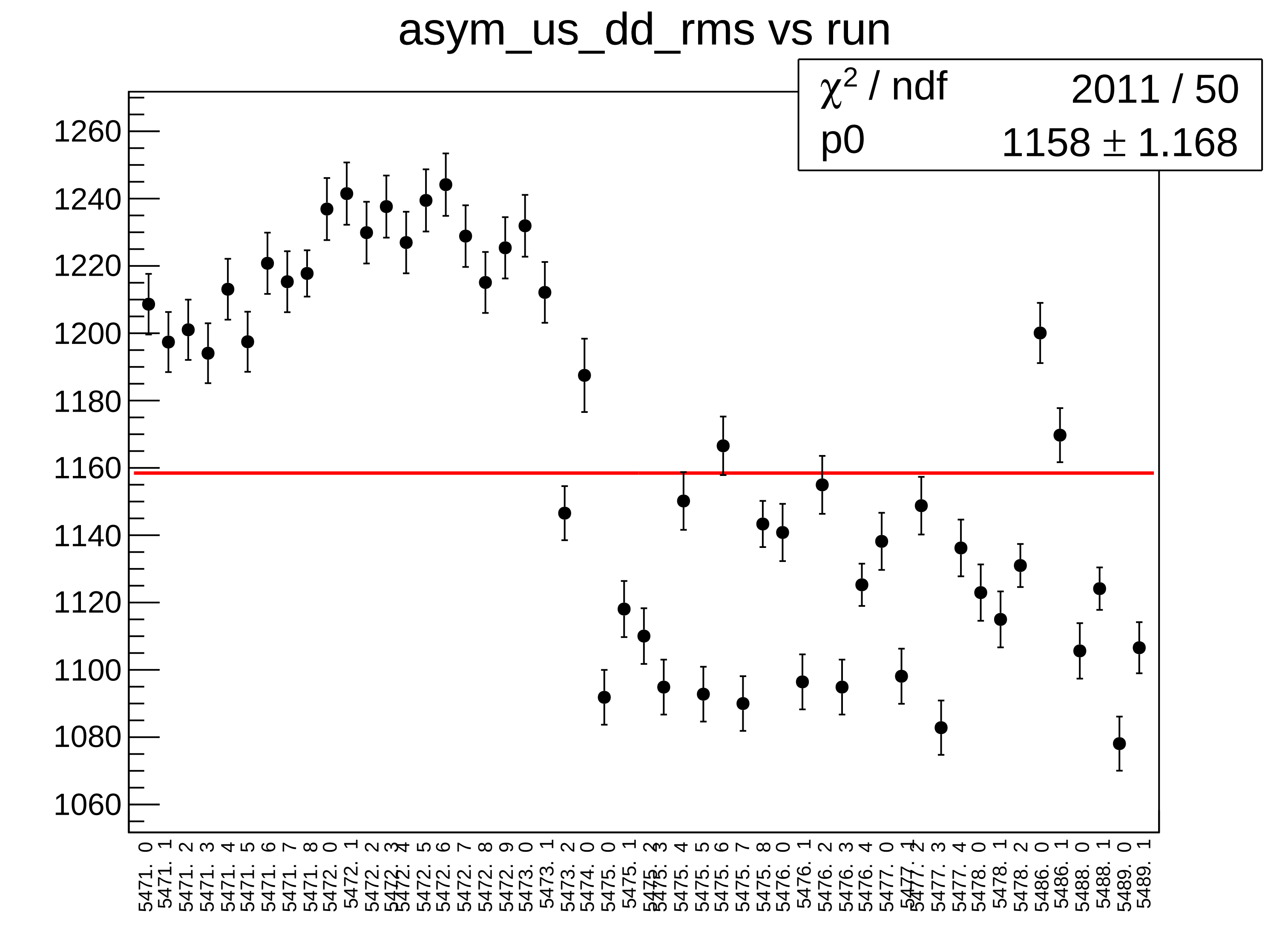
reg_asym_us_dd_rms vs run
χ^2 / ndf 146.2 / 50
p0 767.3 ± 0.7731
820
810
800
790
780
770
760
750
740

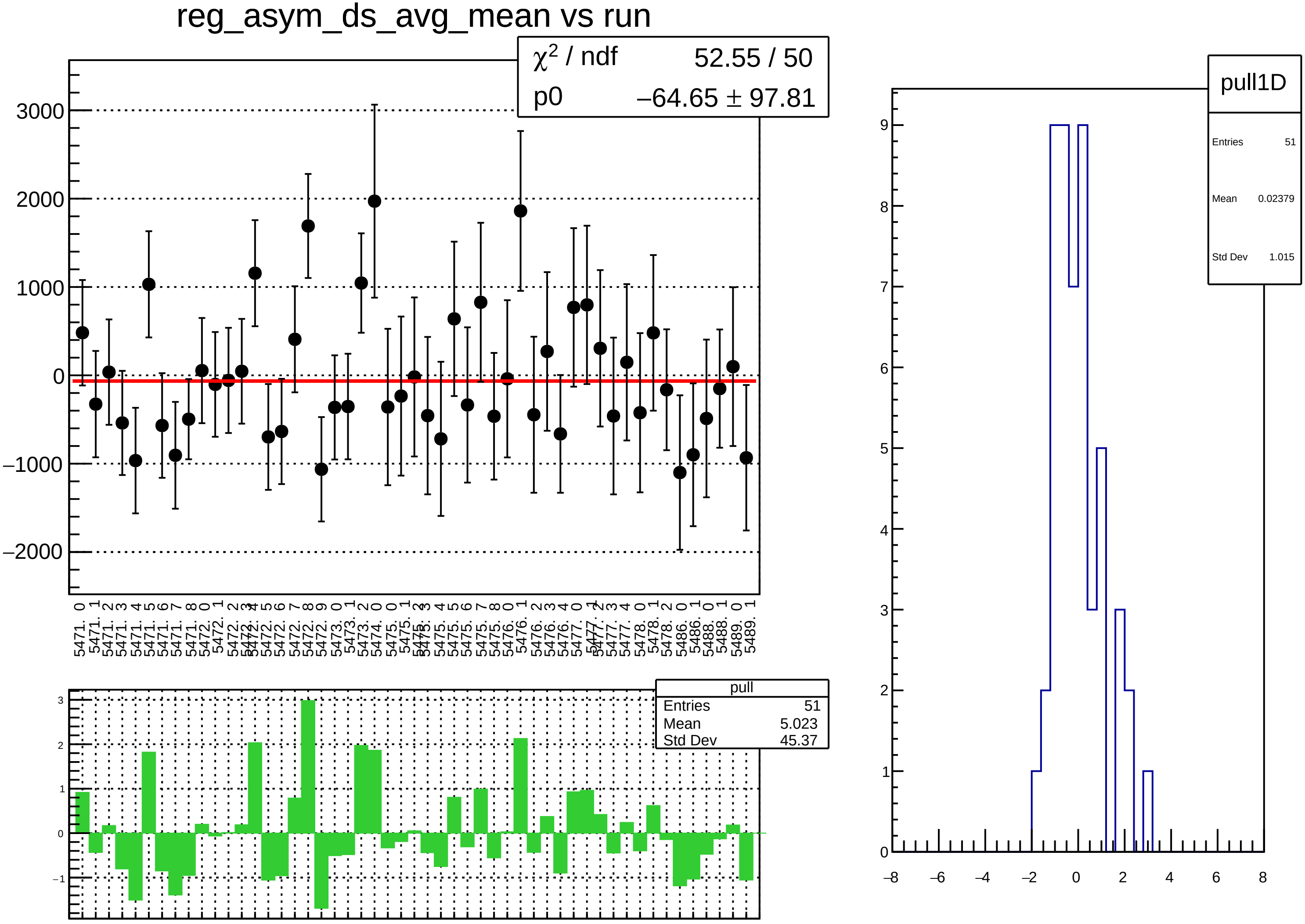

asym_us_dd_correction_mean vs run
χ2 / ndf 62.5 / 50
p0 −550 ± 1231
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 51
Mean 25.93
Std Dev 30.36
pull1D
Entries 51
Mean −0.02264
Std Dev 1.107



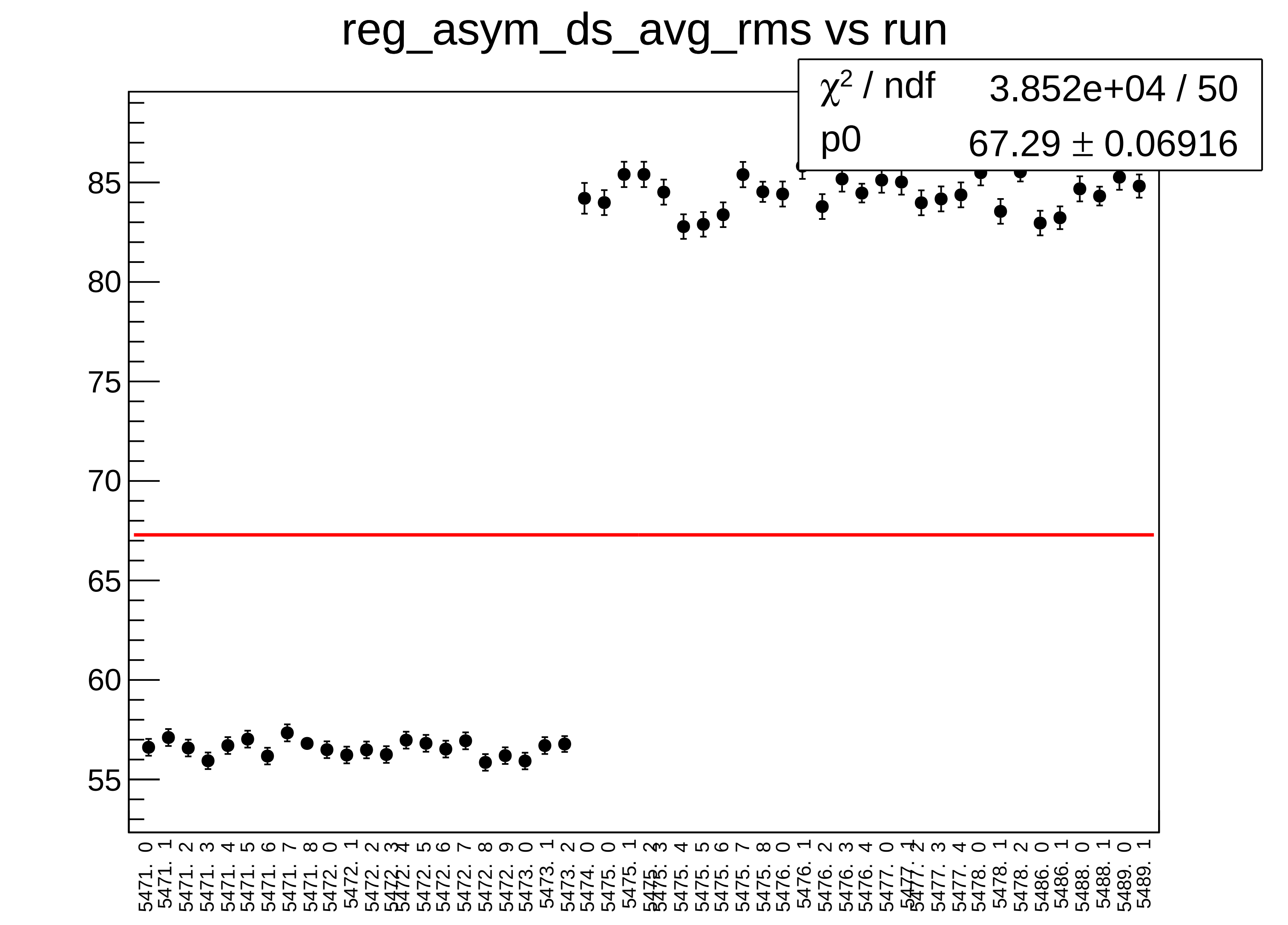
asym_us_dd_correction_rms vs run
χ2 / ndf 6614 / 50
p0 861 ± 0.8703
1000
950
900
850
800
750


asym_us_dd_mean vs run
χ2 / ndf 51.42 / 50
p0 −468.5 ± 1652
pull
Entries 51
Mean −39.83
Std Dev 66.89
pull1D
Entries 51
Mean 0.009781
Std Dev 1.004

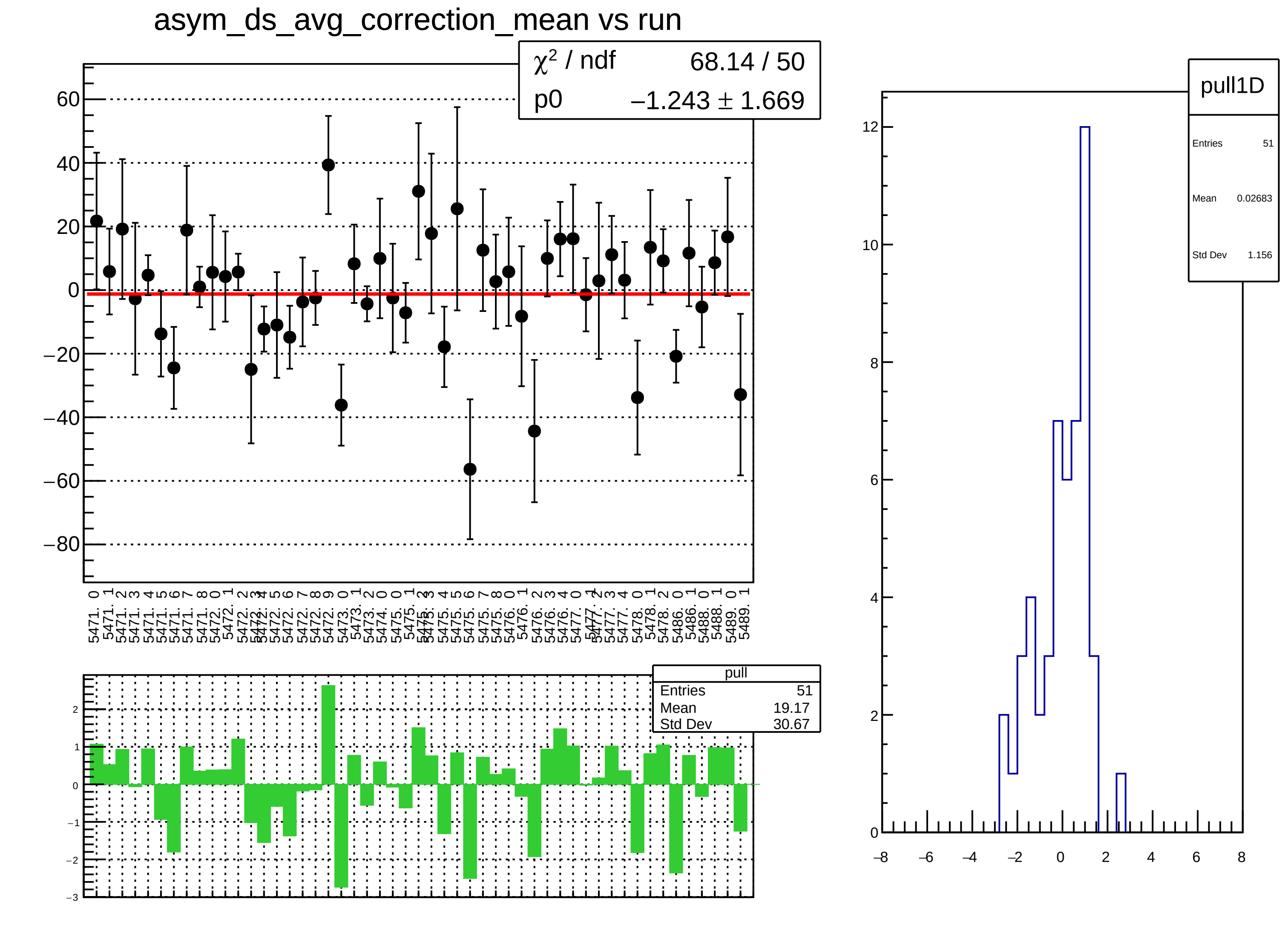

asym_us_dd_rms vs run
χ2 / ndf 2011 / 50
p0 1158 ± 1.168
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060



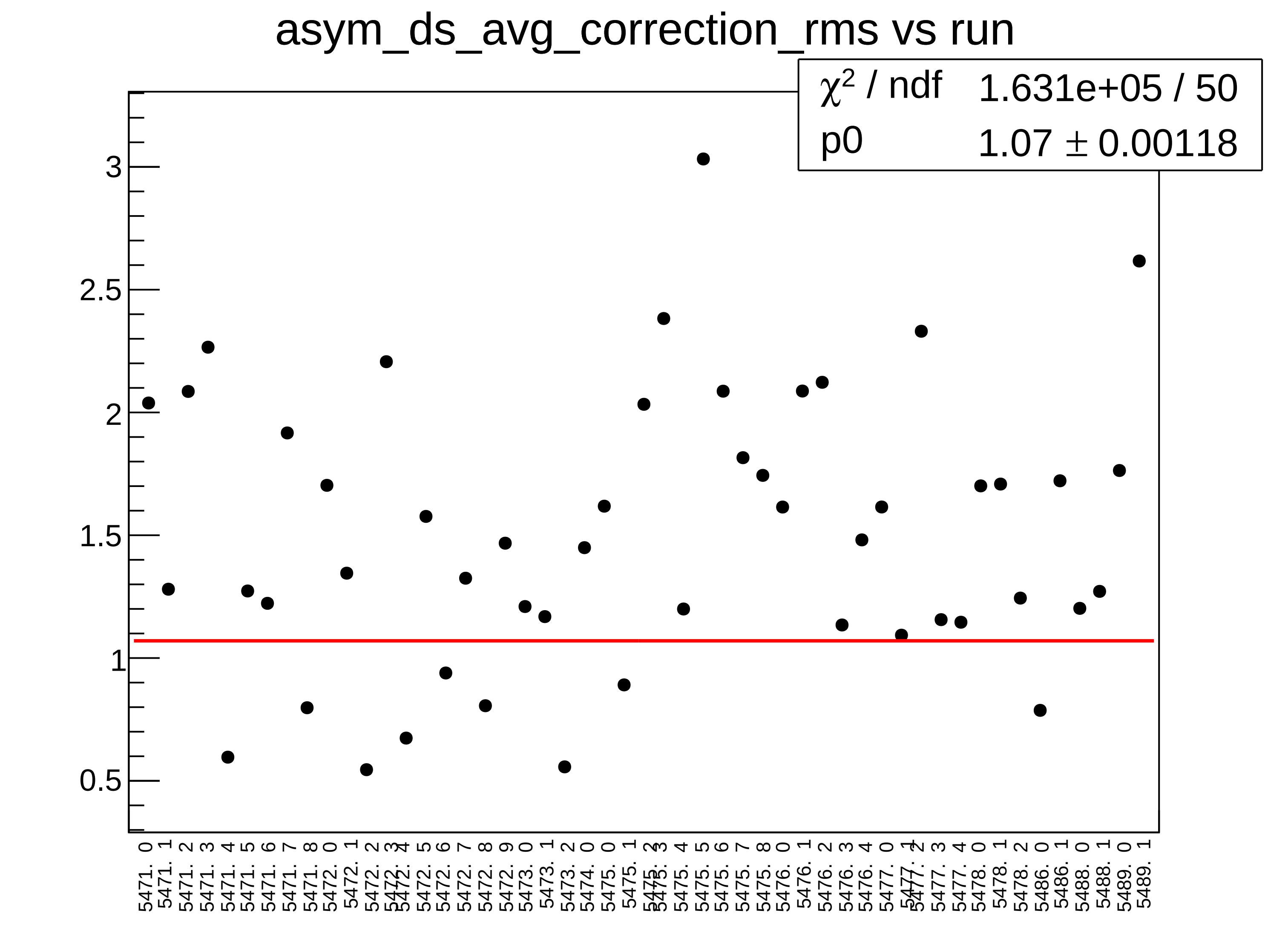
reg_asym_ds_avg_mean vs run
χ^2 / ndf 52.55 / 50
p0 −64.65 ± 97.81
3000
2000
1000
0
−1000
−2000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 5.023
Std Dev 45.37
3
2
1
0
−1
pull1D
Entries 51
Mean 0.02379
Std Dev 1.015
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8



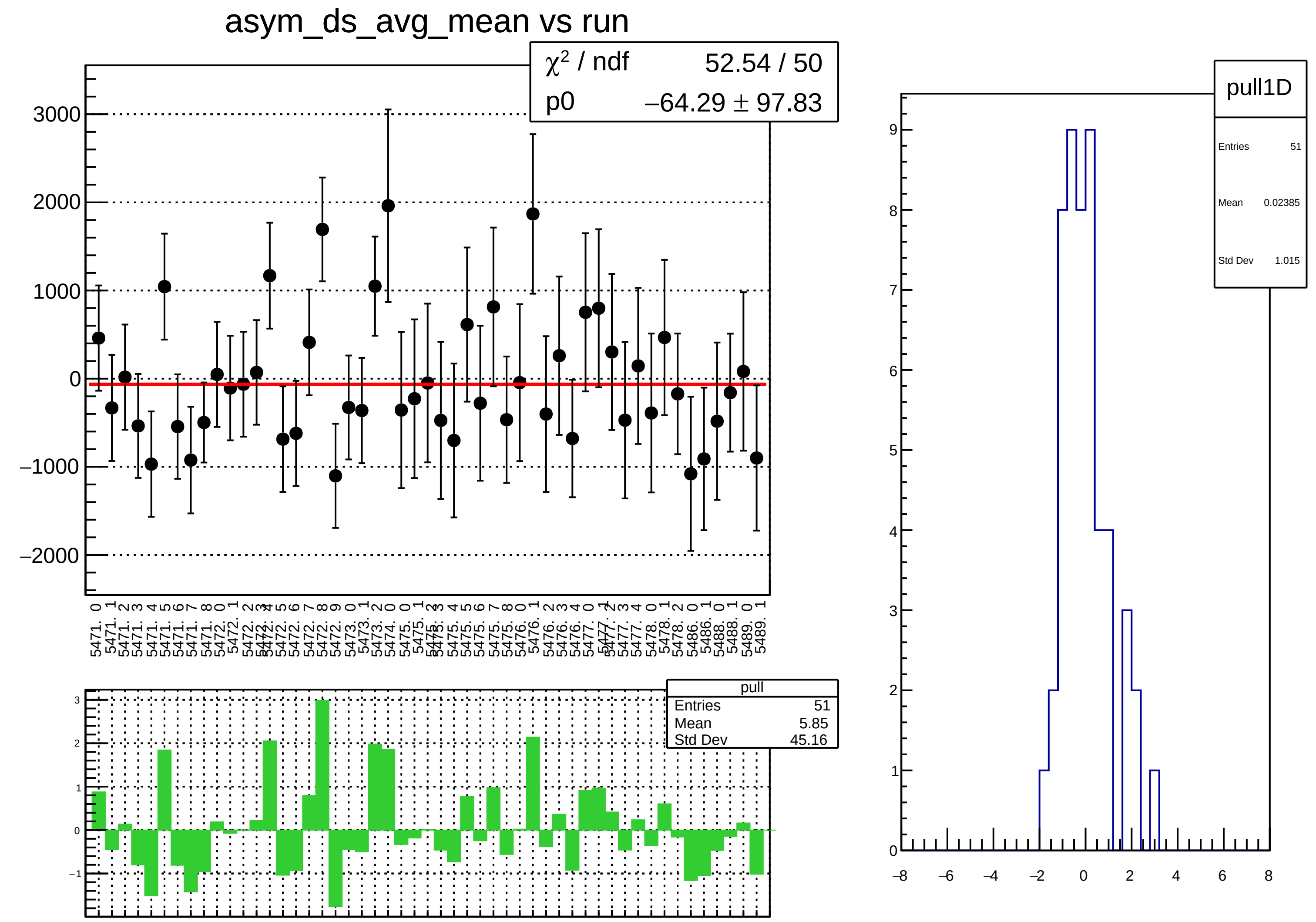
reg_asym_ds_avg_rms vs run
χ^2 / ndf 3.852e+04 / 50
p0 67.29 ± 0.06916
85
80
75
70
65
60
55



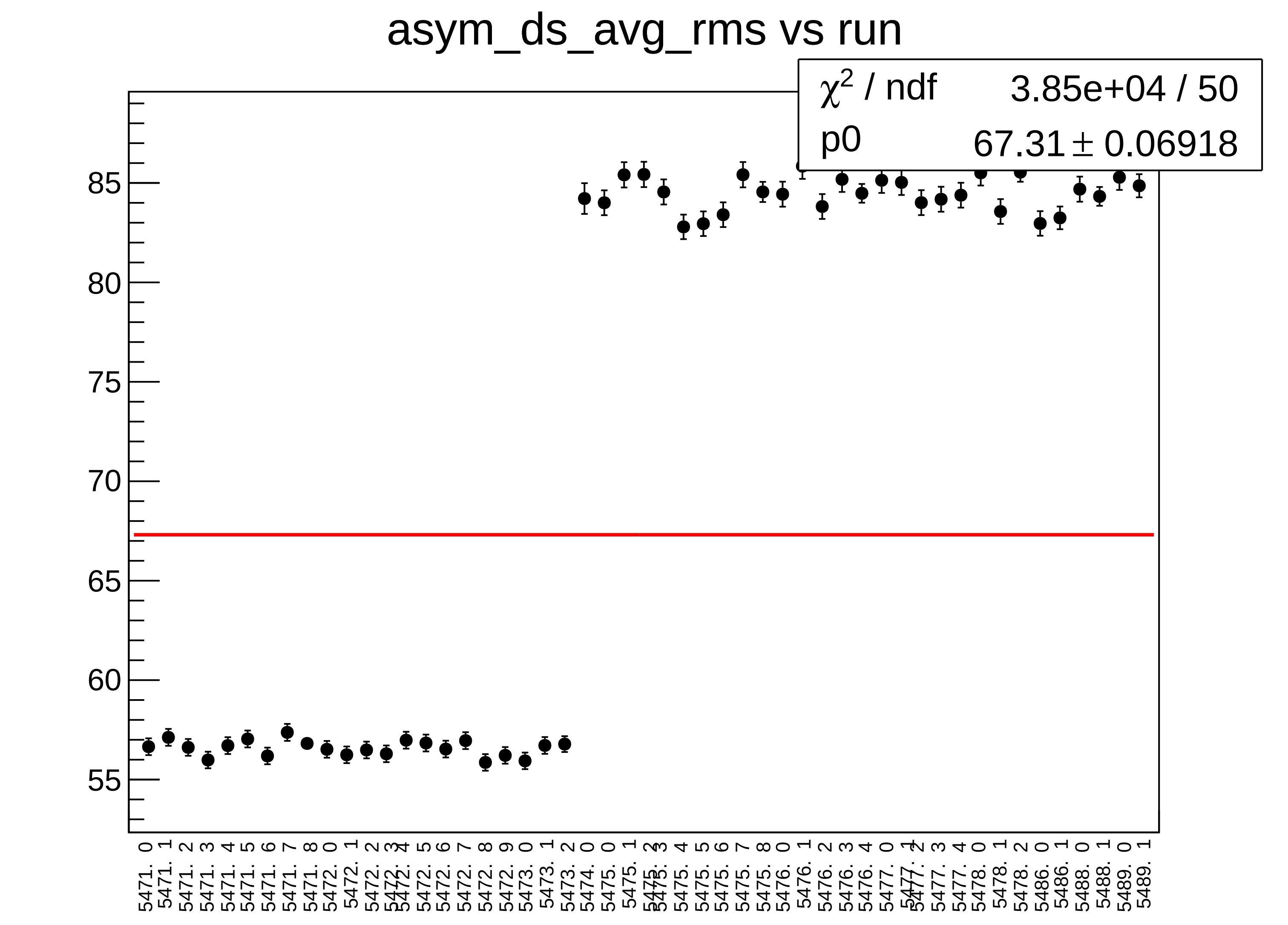
asym_ds_avg_correction_mean vs run
χ^2 / ndf 68.14 / 50
p0 −1.243 ± 1.669
pull
Entries 51
Mean 19.17
Std Dev 30.67
pull1D
Entries 51
Mean 0.02683
Std Dev 1.156



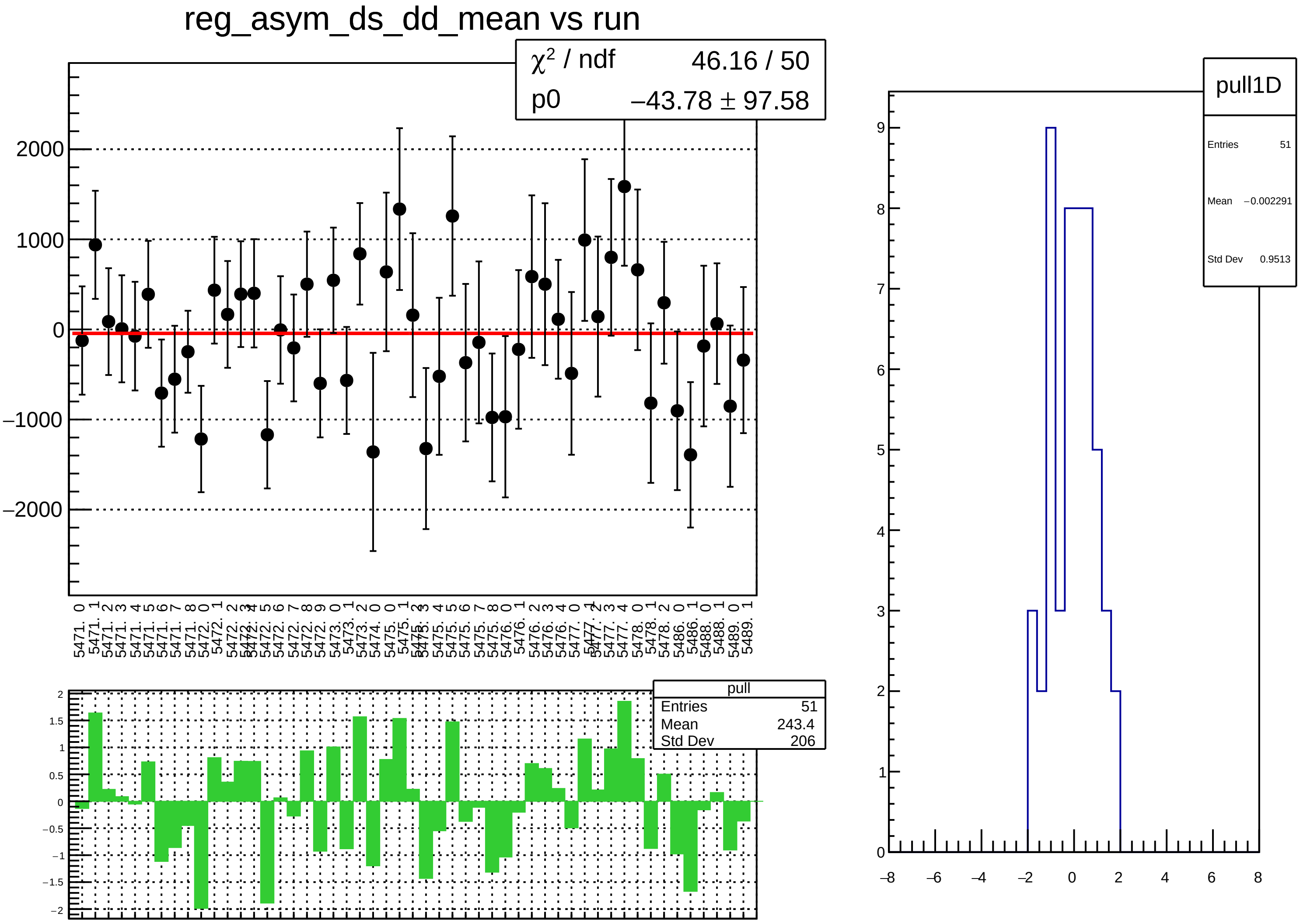
asym_ds_avg_correction_rms vs run
χ^2 / ndf 1.631e+05 / 50
p0 1.07 ± 0.00118
3
2.5
2
1.5
1
0.5

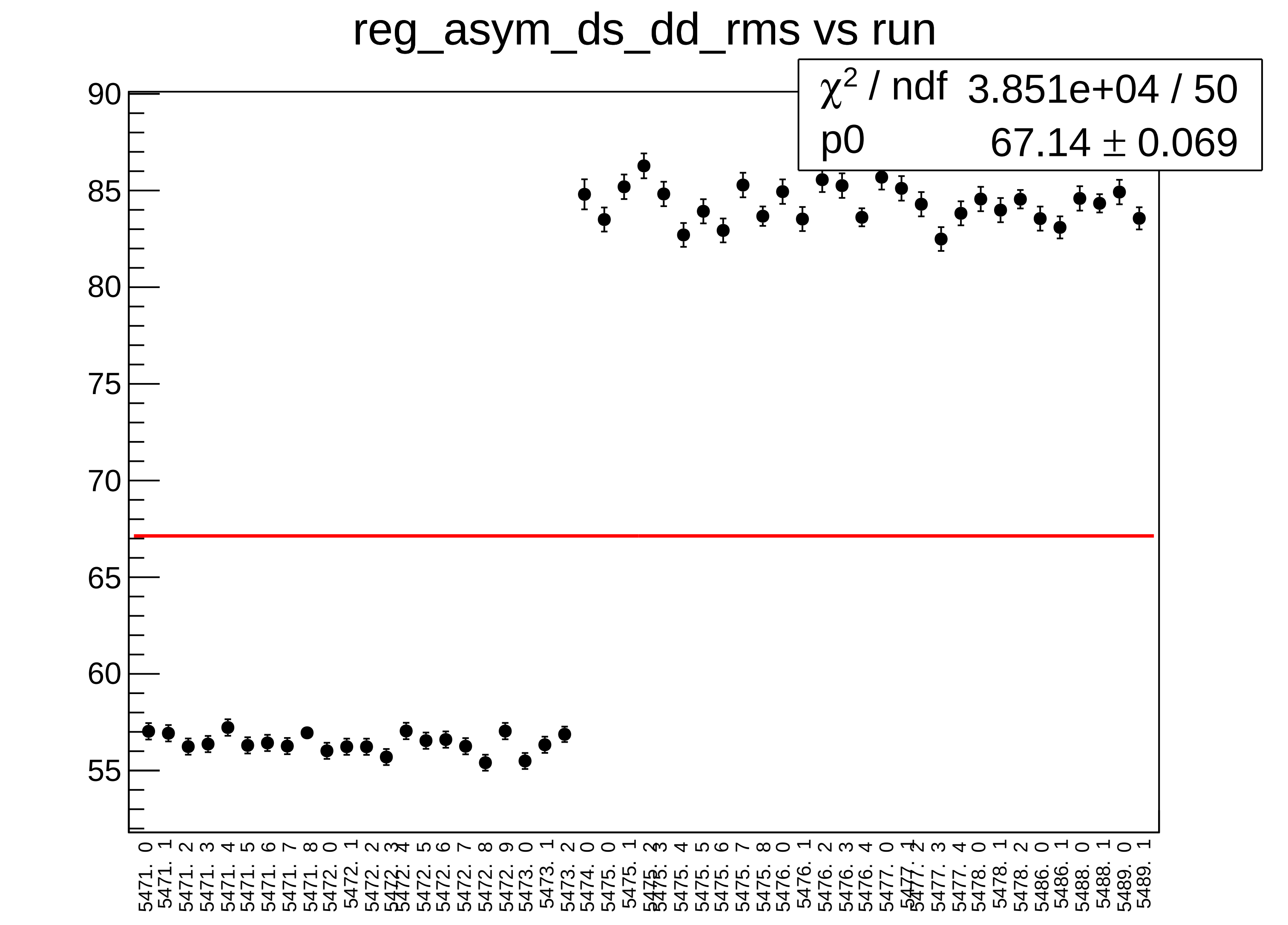


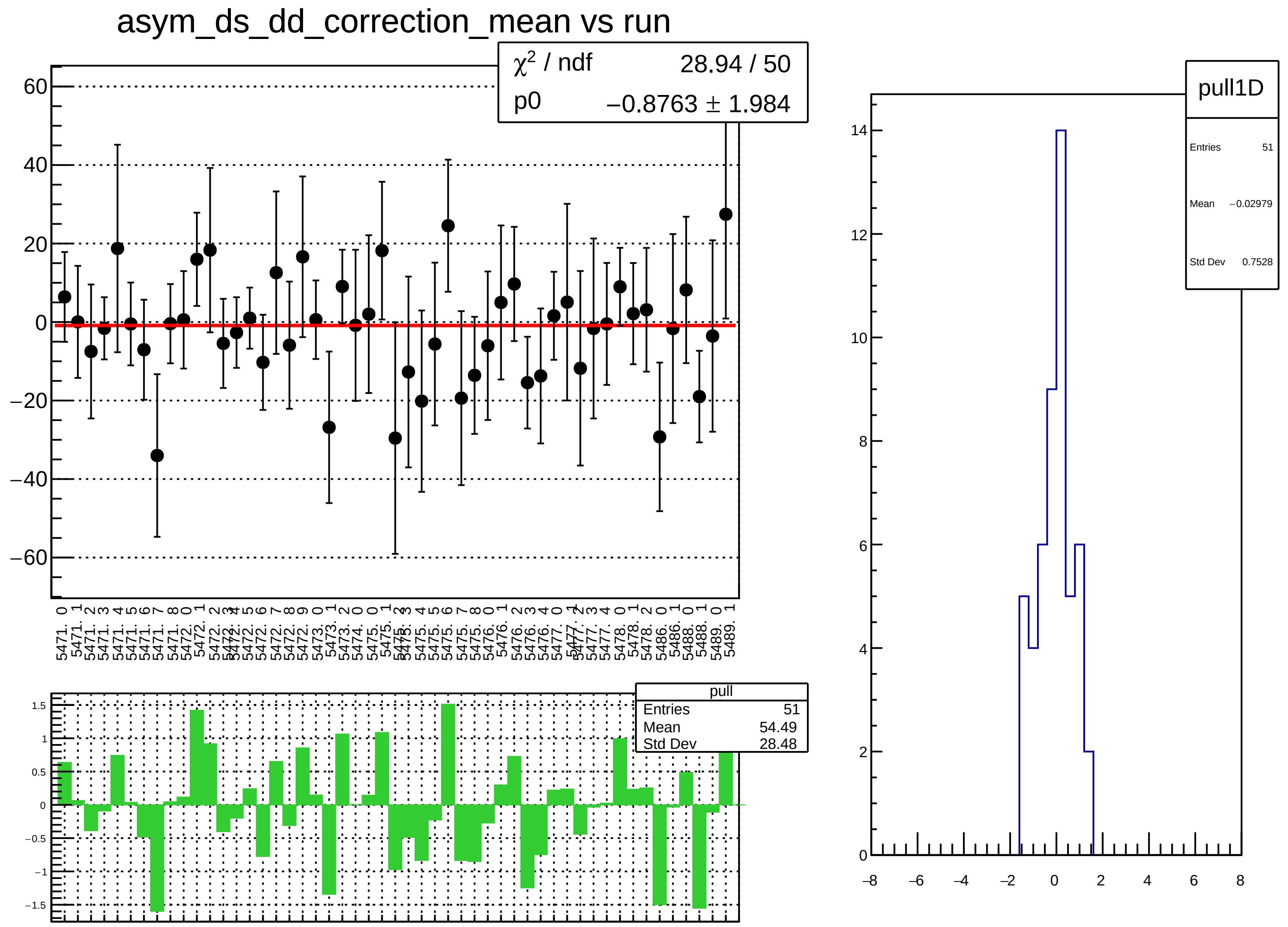
asym_ds_avg_mean vs run
χ2 / ndf 52.54 / 50
p0 −64.29 ± 97.83
pull
Entries 51
Mean 5.85
Std Dev 45.16
pull1D
Entries 51
Mean 0.02385
Std Dev 1.015



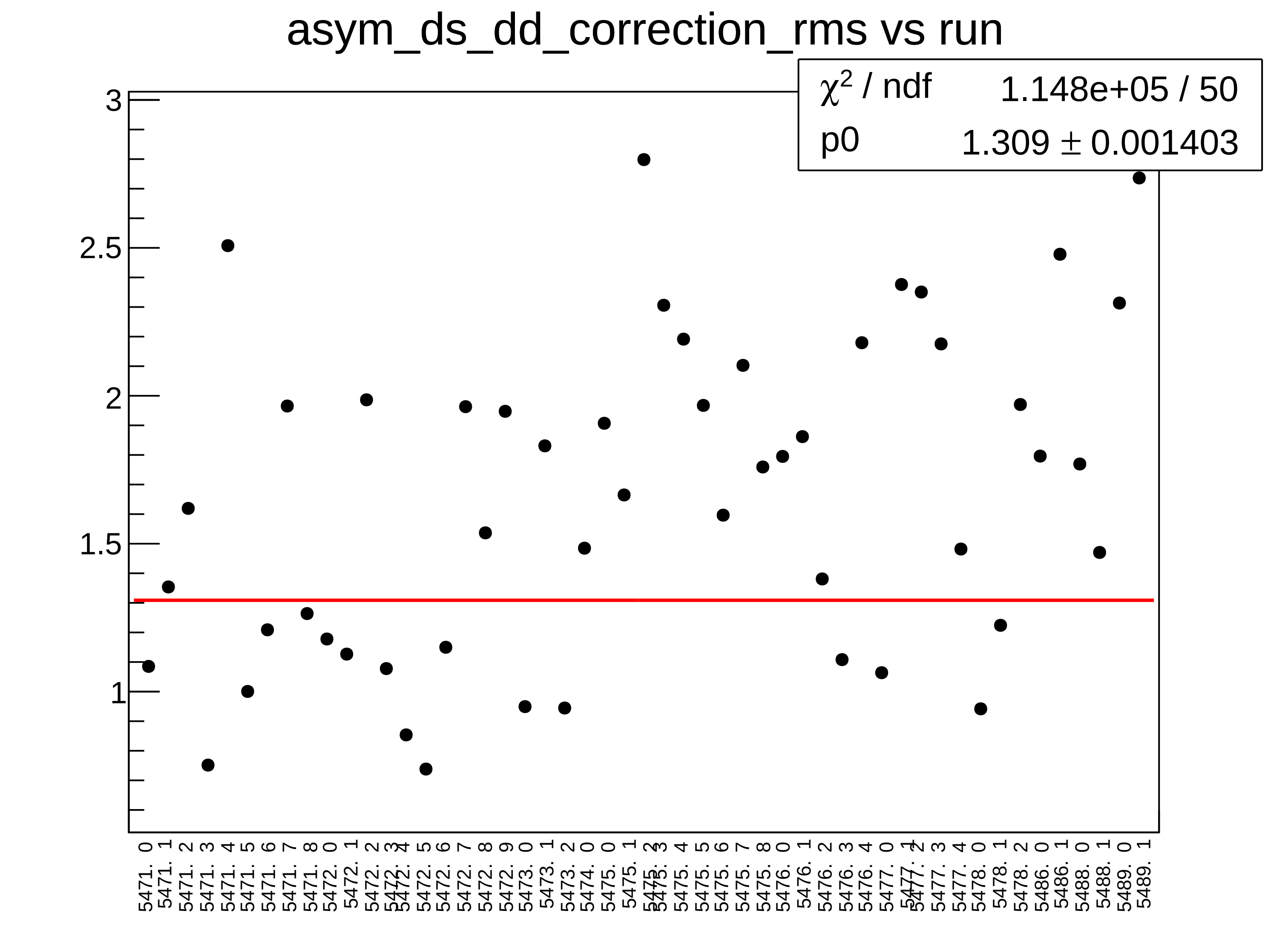
asym_ds_avg_rms vs run
χ^2 / ndf 3.85e+04 / 50
p0 67.31 ± 0.06918
85
80
75
70
65
60
55


reg_asym_ds_dd_mean vs run
χ^2 / ndf 46.16 / 50
p0 −43.78 ± 97.58
2000
1000
0
−1000
−2000
pull
Entries 51
Mean 243.4
Std Dev 206
pull1D
Entries 51
Mean −0.002291
Std Dev 0.9513

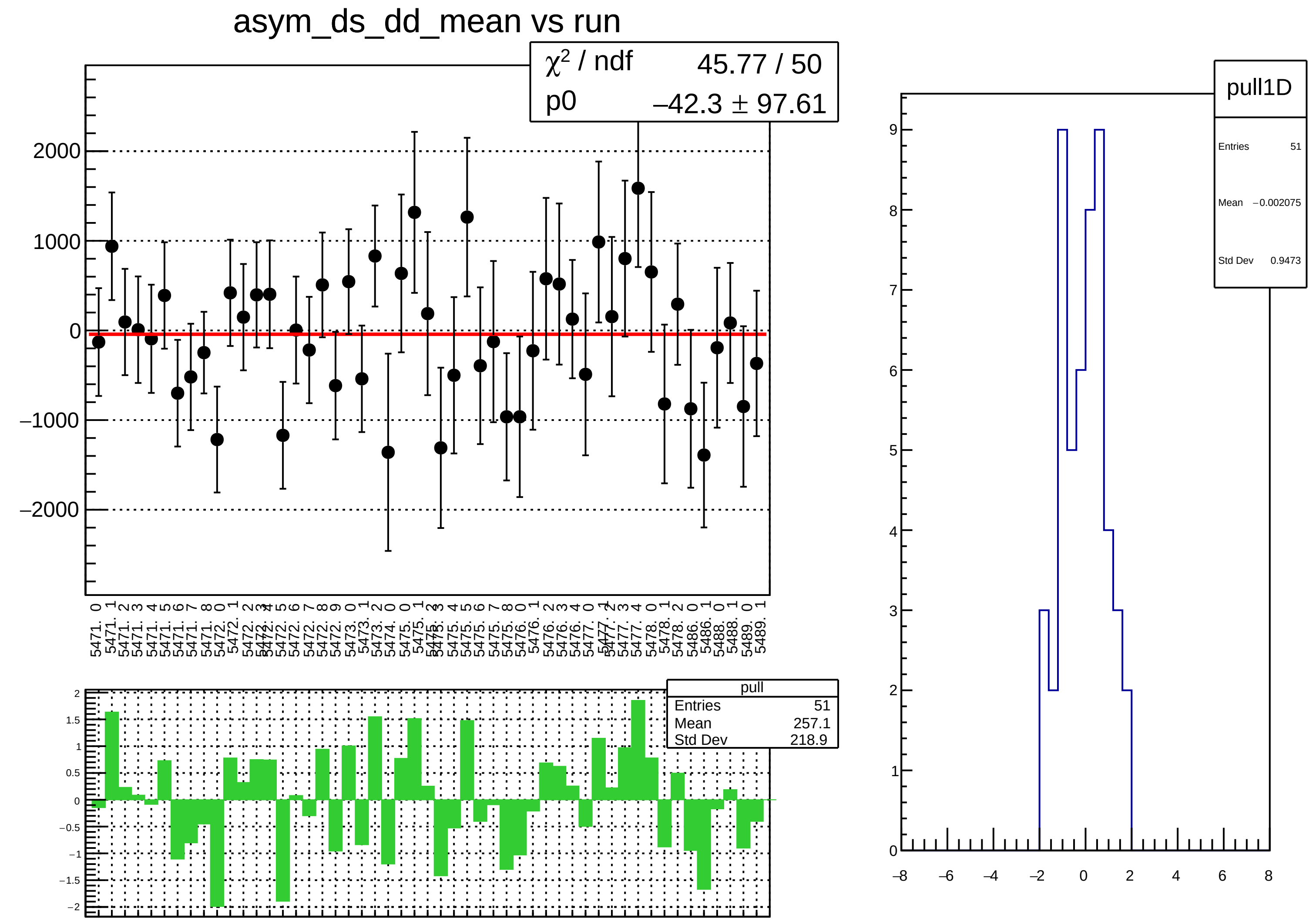

reg_asym_ds_dd_rms vs run
χ^2 / ndf 3.851e+04 / 50
p0 67.14 ± 0.069
90
85
80
75
70
65
60
55



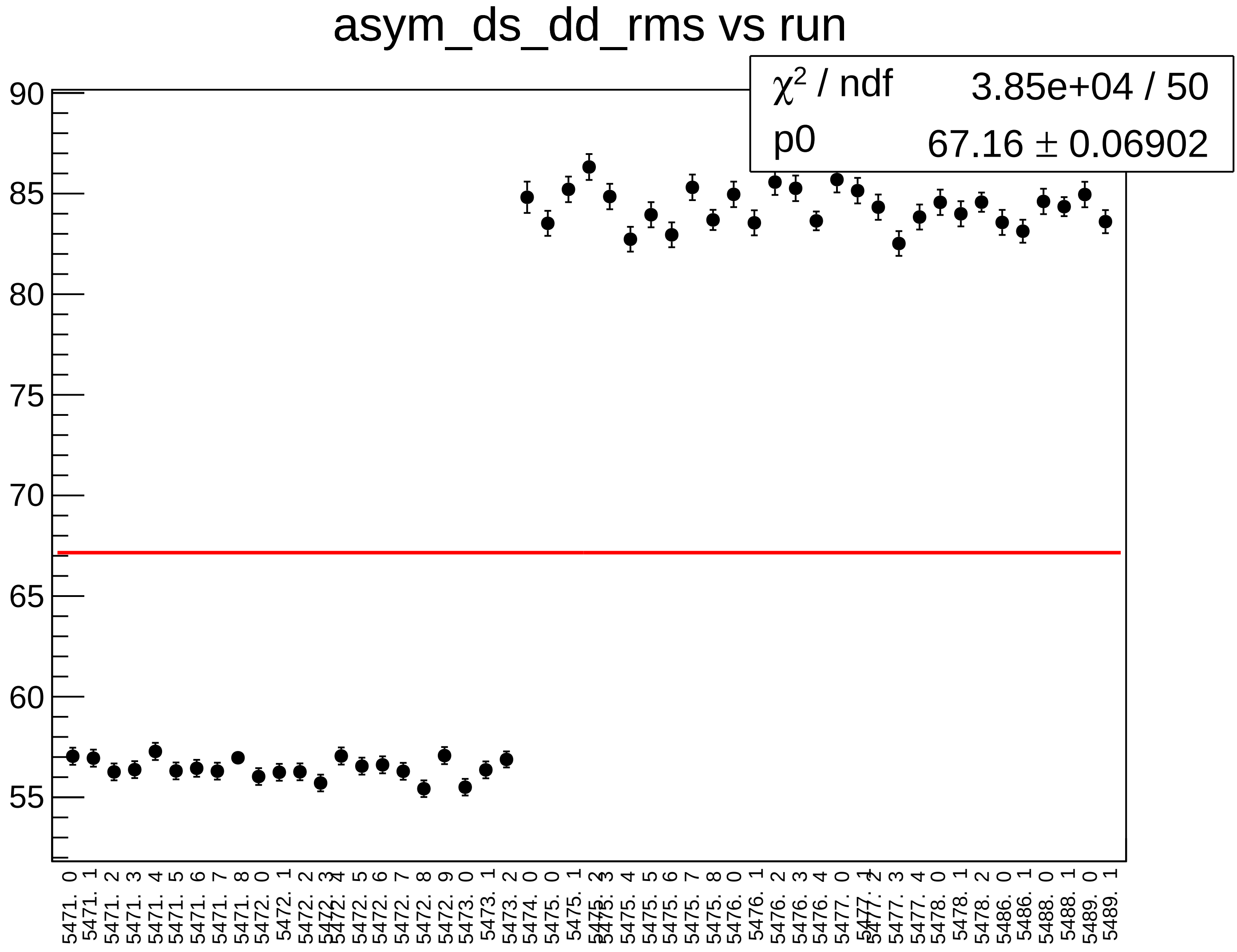
asym_ds_dd_correction_mean vs run
χ2 / ndf 28.94 / 50
p0 −0.8763 ± 1.984
pull
Entries 51
Mean 54.49
Std Dev 28.48
pull1D
Entries 51
Mean −0.02979
Std Dev 0.7528



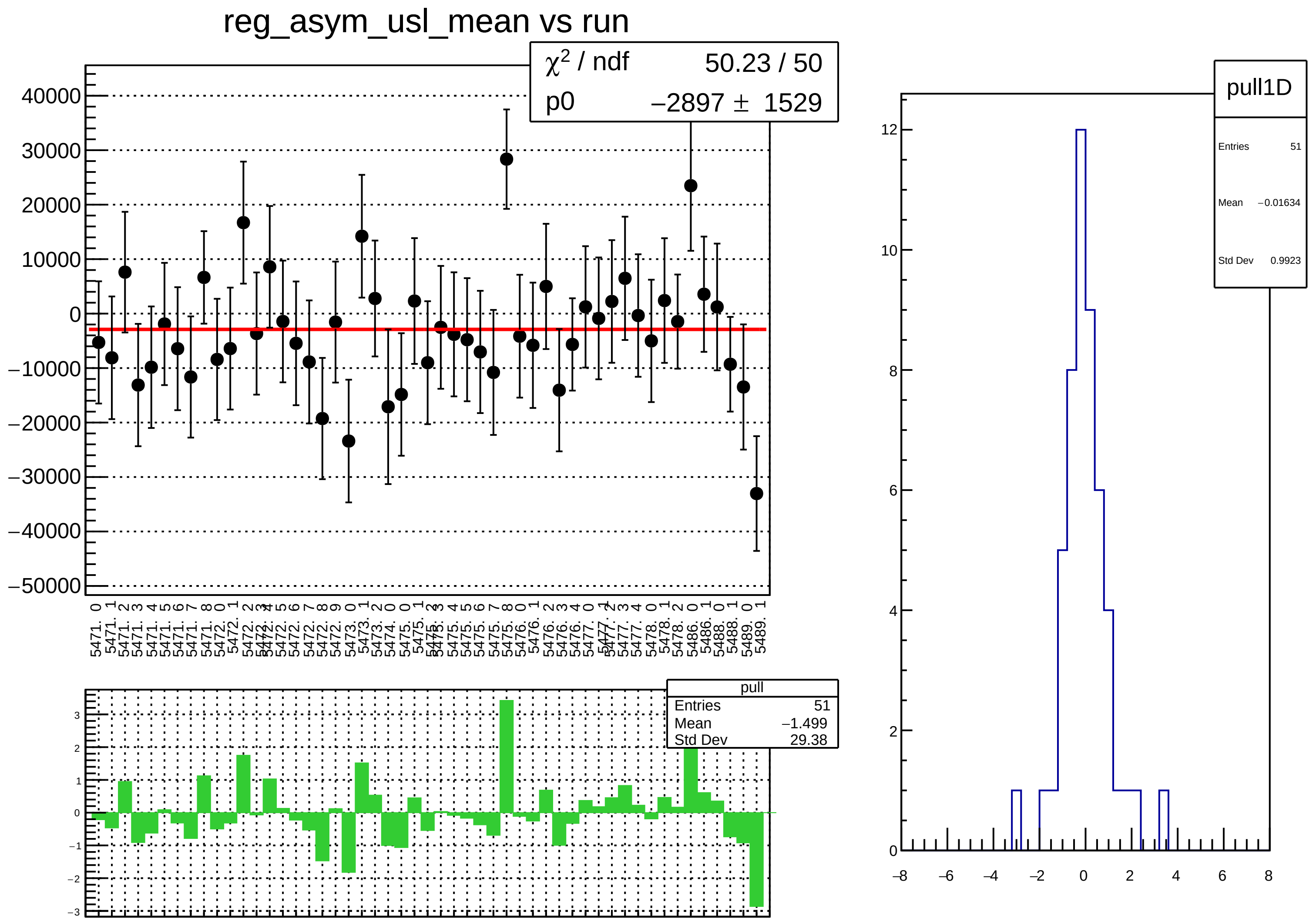
asym_ds_dd_correction_rms vs run
χ^2 / ndf 1.148e+05 / 50
p0 1.309 ± 0.001403
3
2.5
2
1.5
1



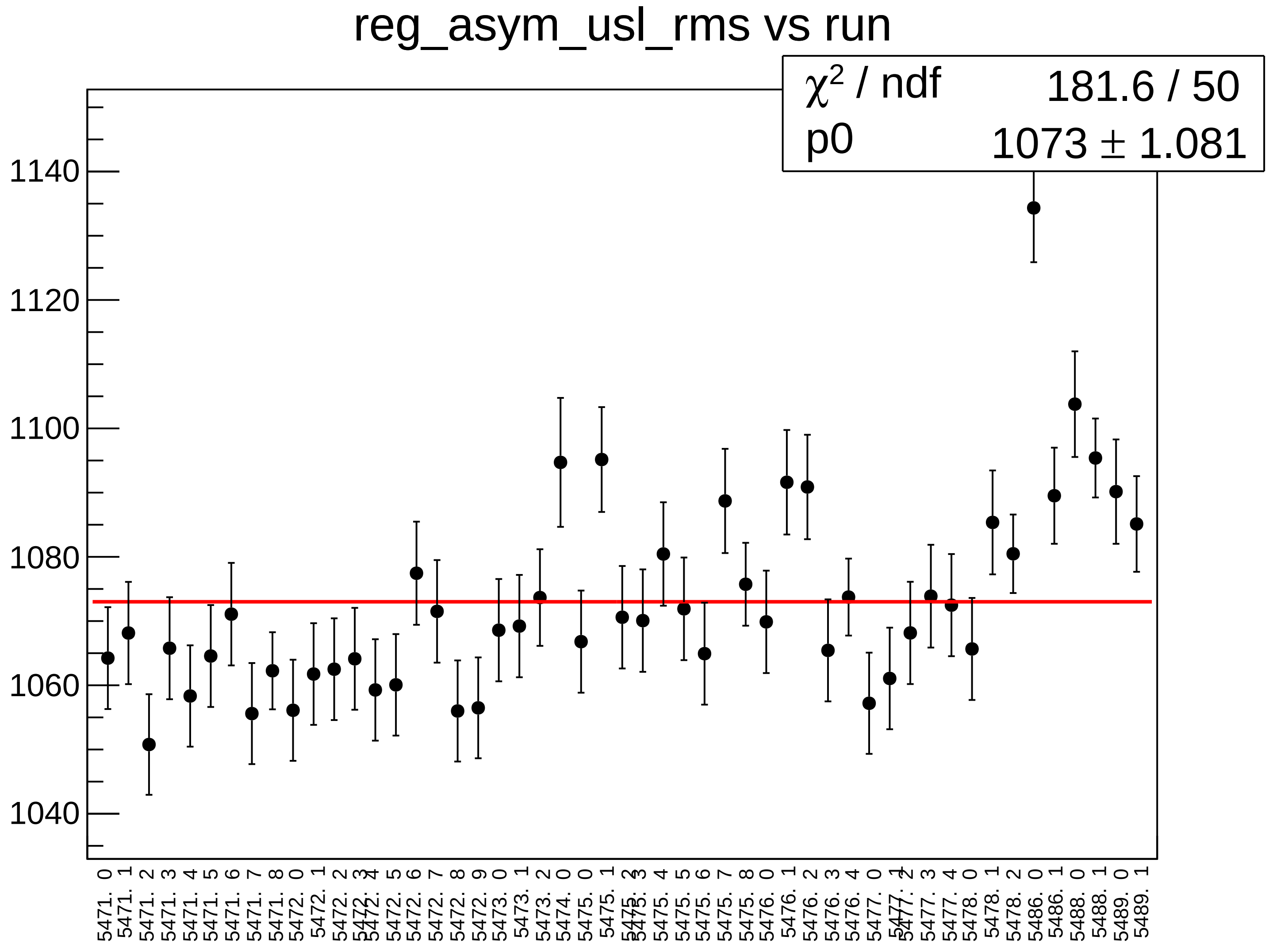
asym_ds_dd_mean vs run
χ^2 / ndf 45.77 / 50
p0 −42.3 ± 97.61
pull
Entries 51
Mean 257.1
Std Dev 218.9
pull1D
Entries 51
Mean −0.002075
Std Dev 0.9473



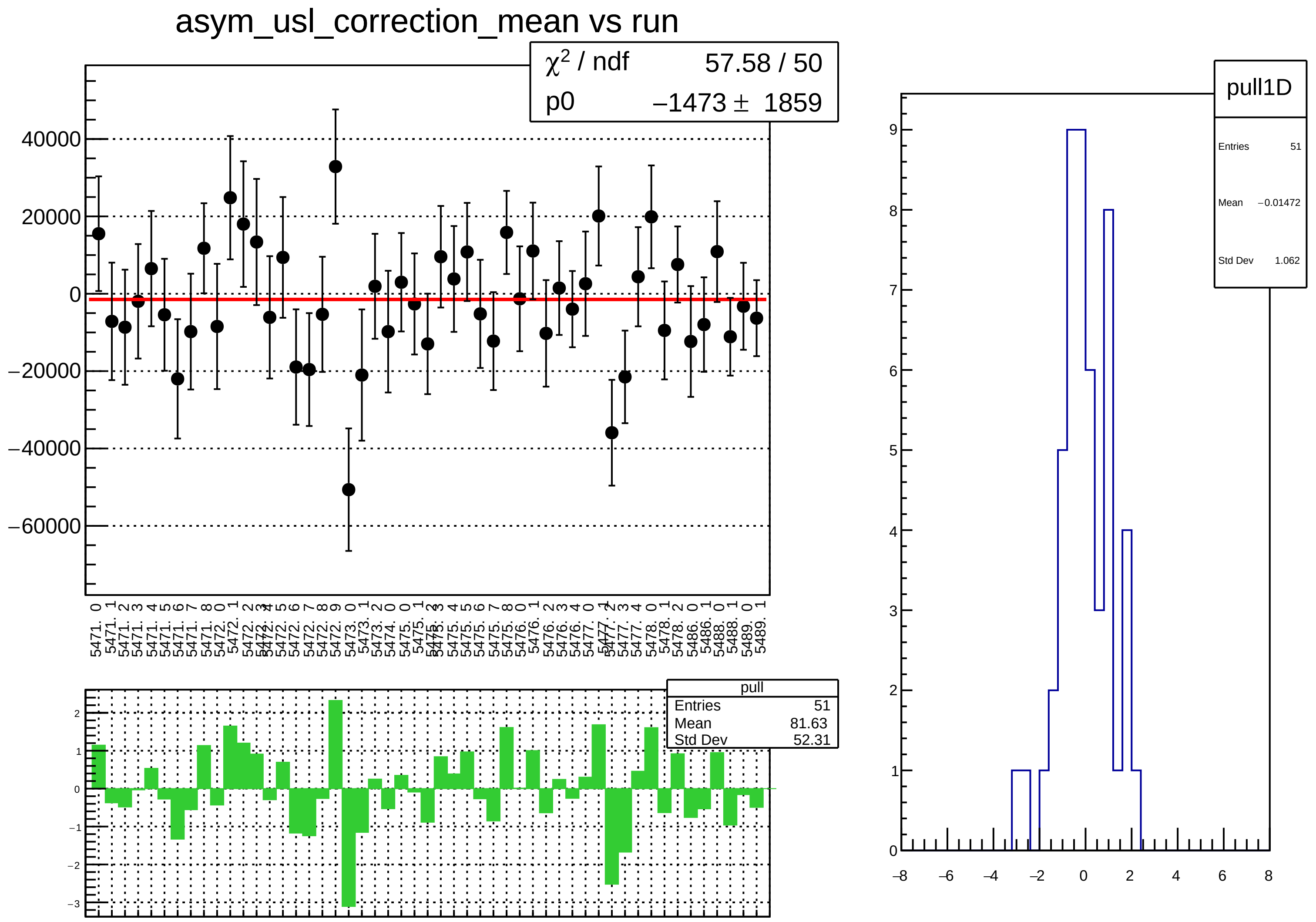
asym_ds_dd_rms vs run
χ^2 / ndf 3.85e+04 / 50
p0 67.16 ± 0.06902
90
85
80
75
70
65
60
55



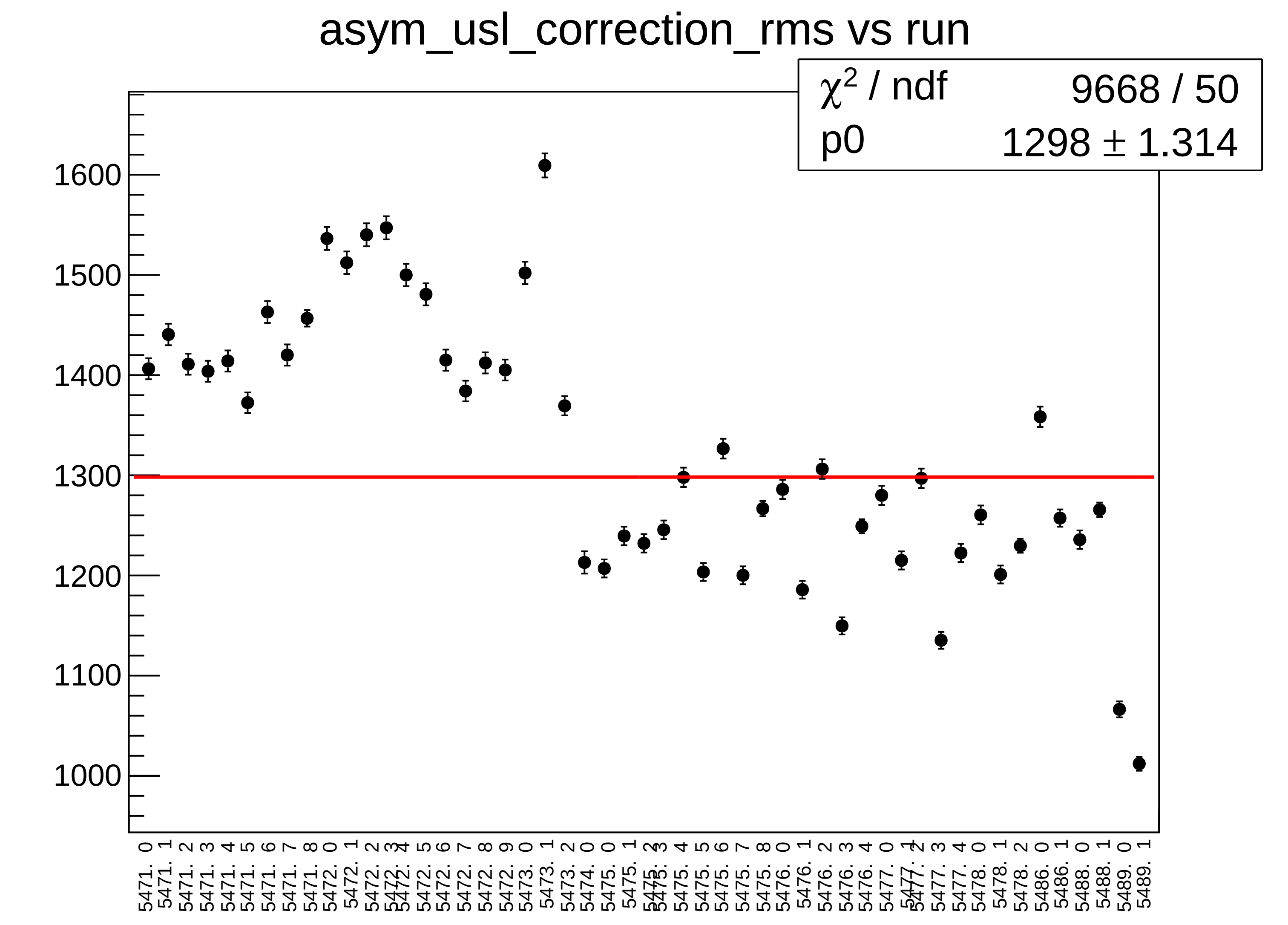
reg_asym_usl_mean vs run
χ^2 / ndf 50.23 / 50
p0 −2897 ± 1529
pull
Entries 51
Mean −1.499
Std Dev 29.38
pull1D
Entries 51
Mean −0.01634
Std Dev 0.9923



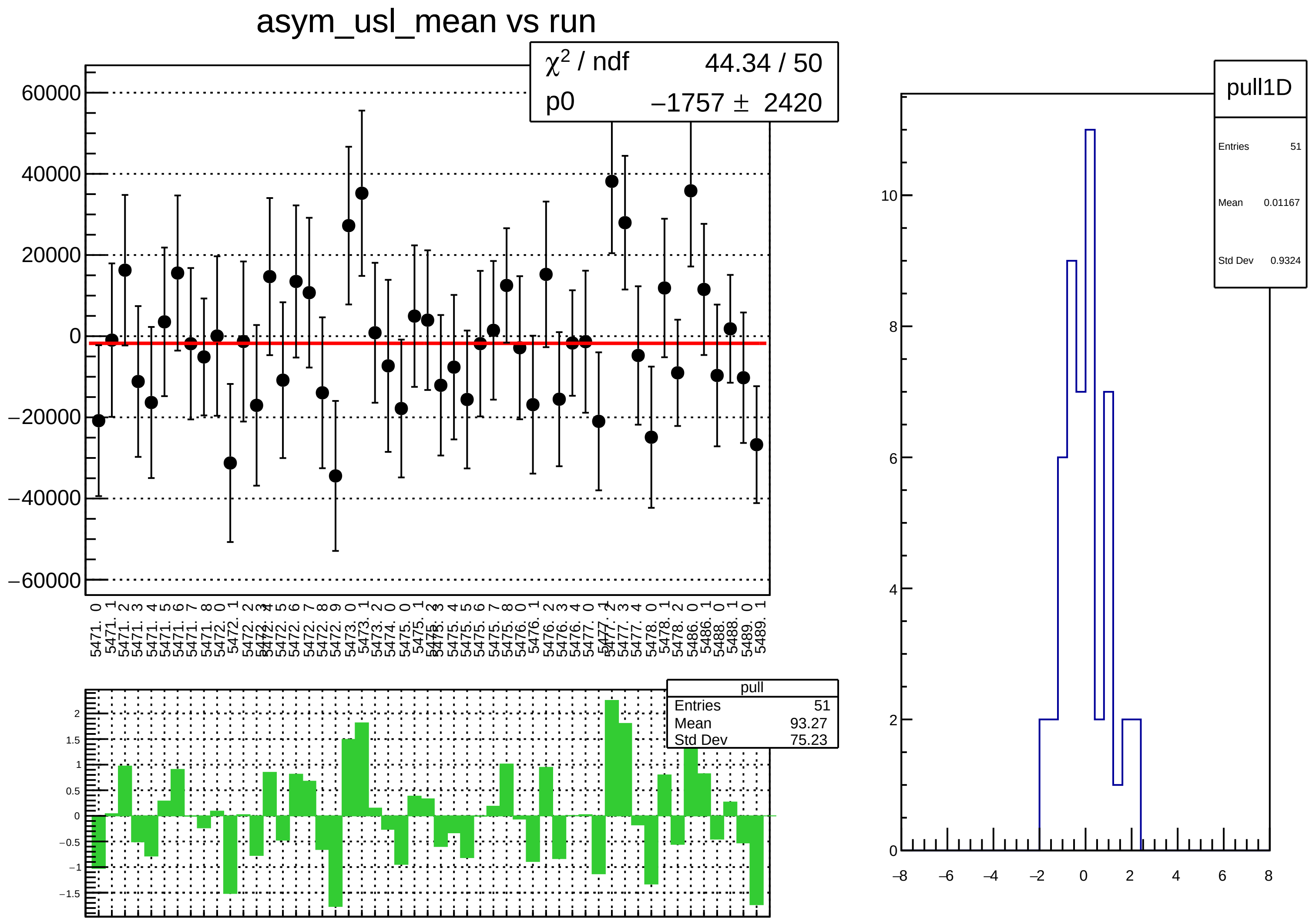
reg_asym_usl_rms vs run
χ2 / ndf 181.6 / 50
p0 1073 ± 1.081
1040
1060
1080
1100
1120
1140



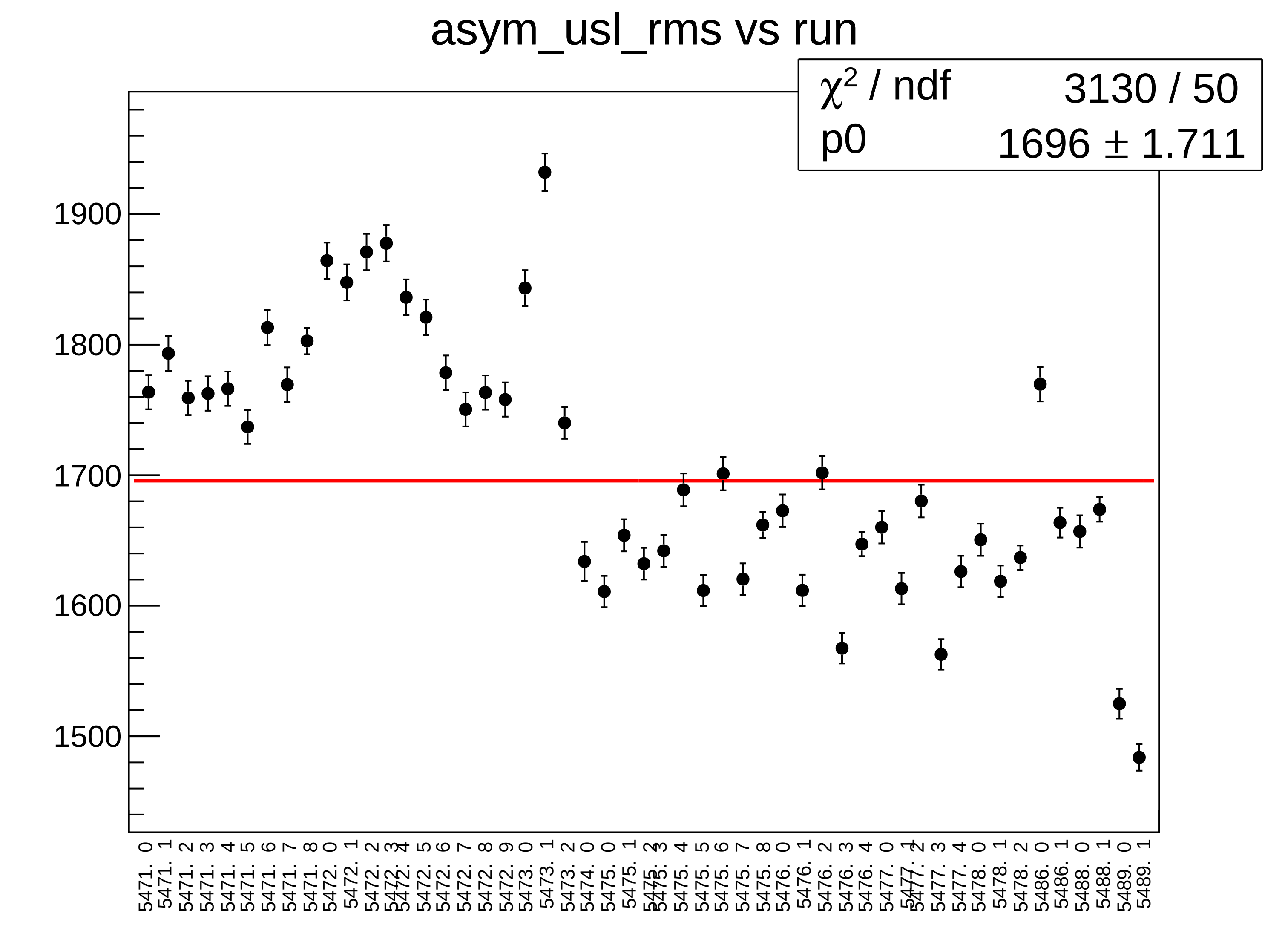
asym_usl_correction_mean vs run
χ^2 / ndf 57.58 / 50
p0 −1473 ± 1859
40000
20000
0
−20000
−40000
−60000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 81.63
Std Dev 52.31
2
1
0
−1
−2
−3
pull1D
Entries 51
Mean −0.01472
Std Dev 1.062
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

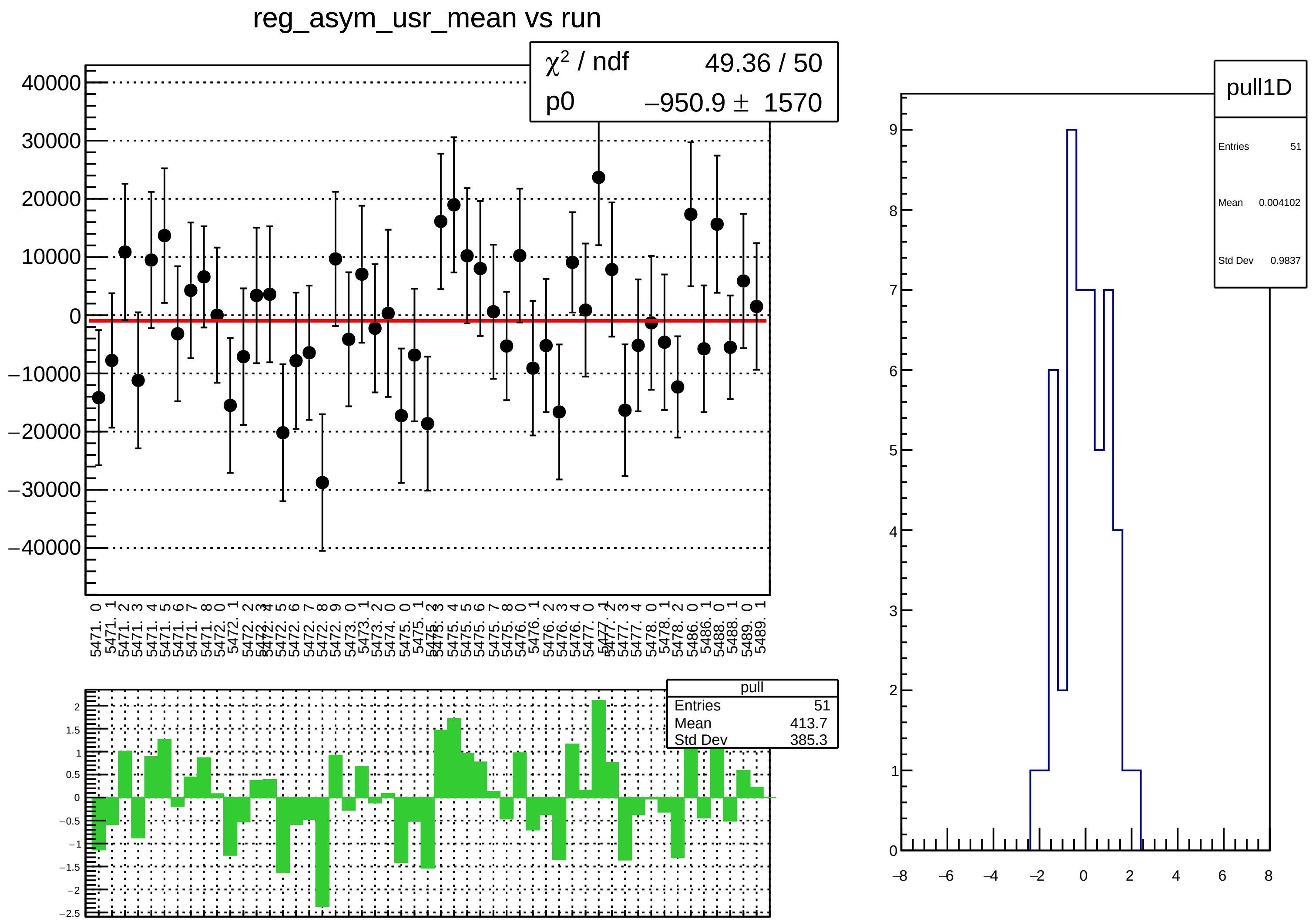


asym_usl_correction_rms vs run
χ^2 / ndf 9668 / 50
p0 1298 ± 1.314
1600
1500
1400
1300
1200
1100
1000

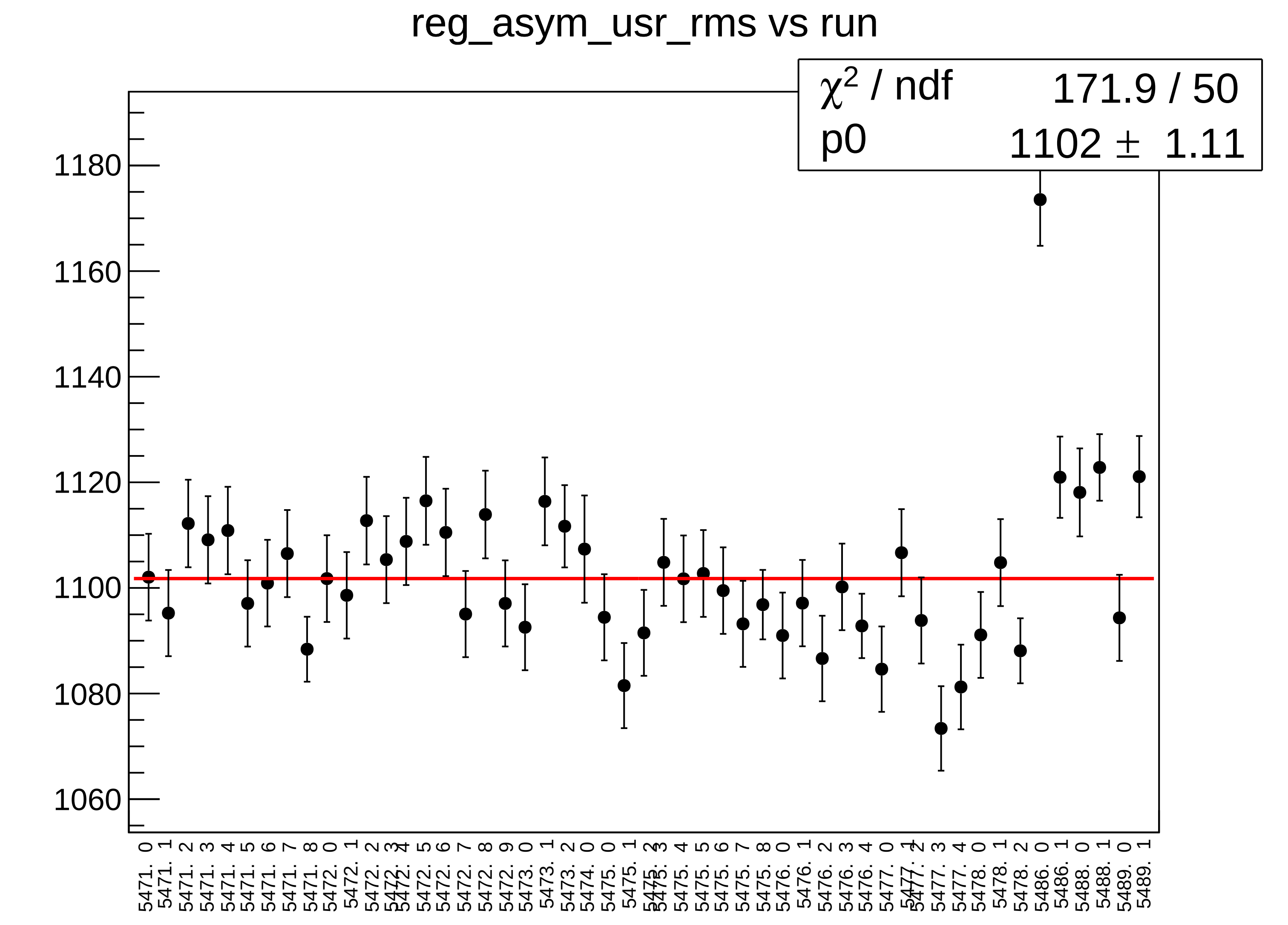


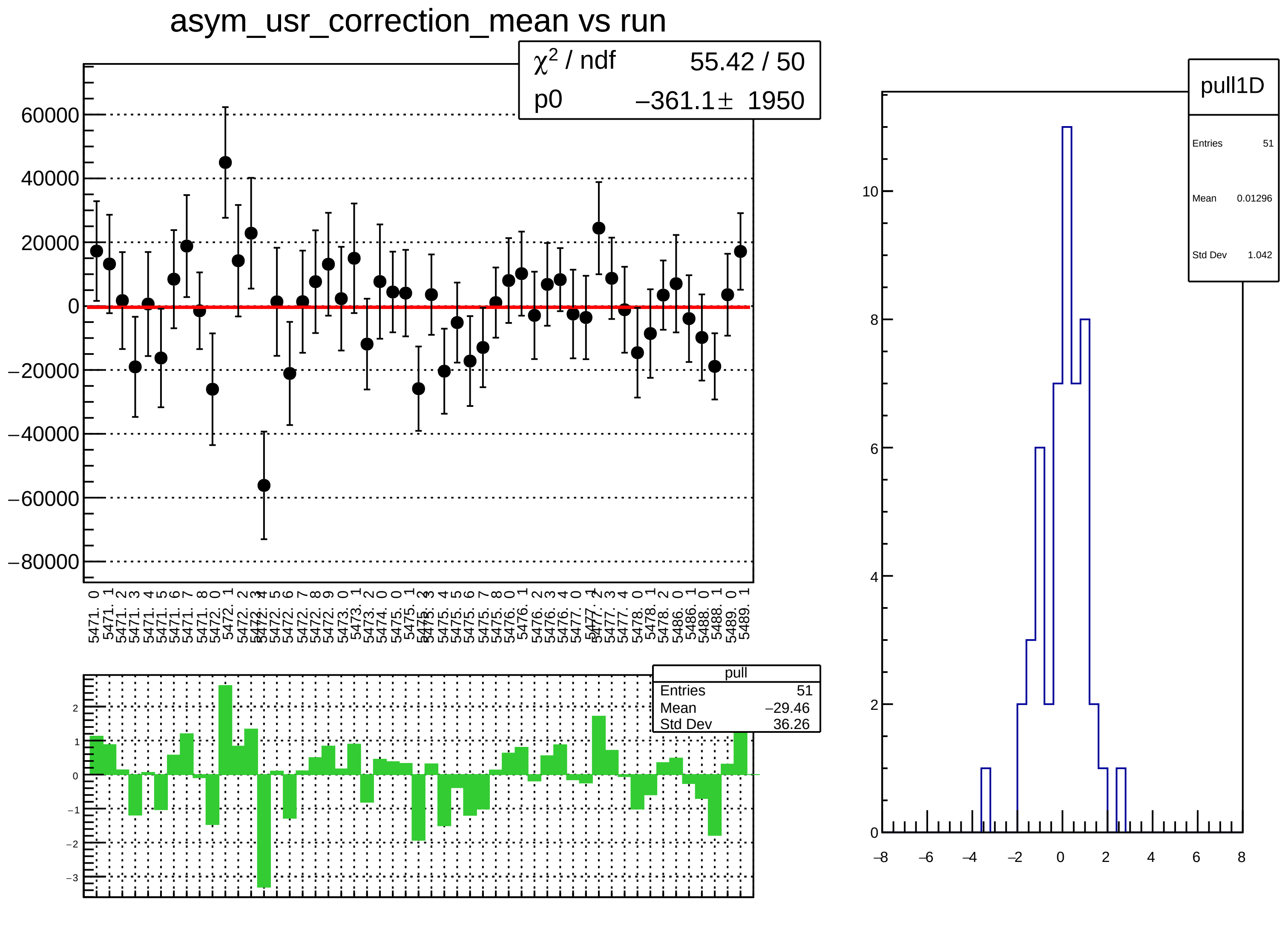
asym_usl_mean vs run
χ^2 / ndf 44.34 / 50
p0 −1757 ± 2420
pull
Entries 51
Mean 93.27
Std Dev 75.23
pull1D
Entries 51
Mean 0.01167
Std Dev 0.9324


asym_usl_rms vs run
χ^2 / ndf 3130 / 50
p0 1696 ± 1.711
1900
1800
1700
1600
1500

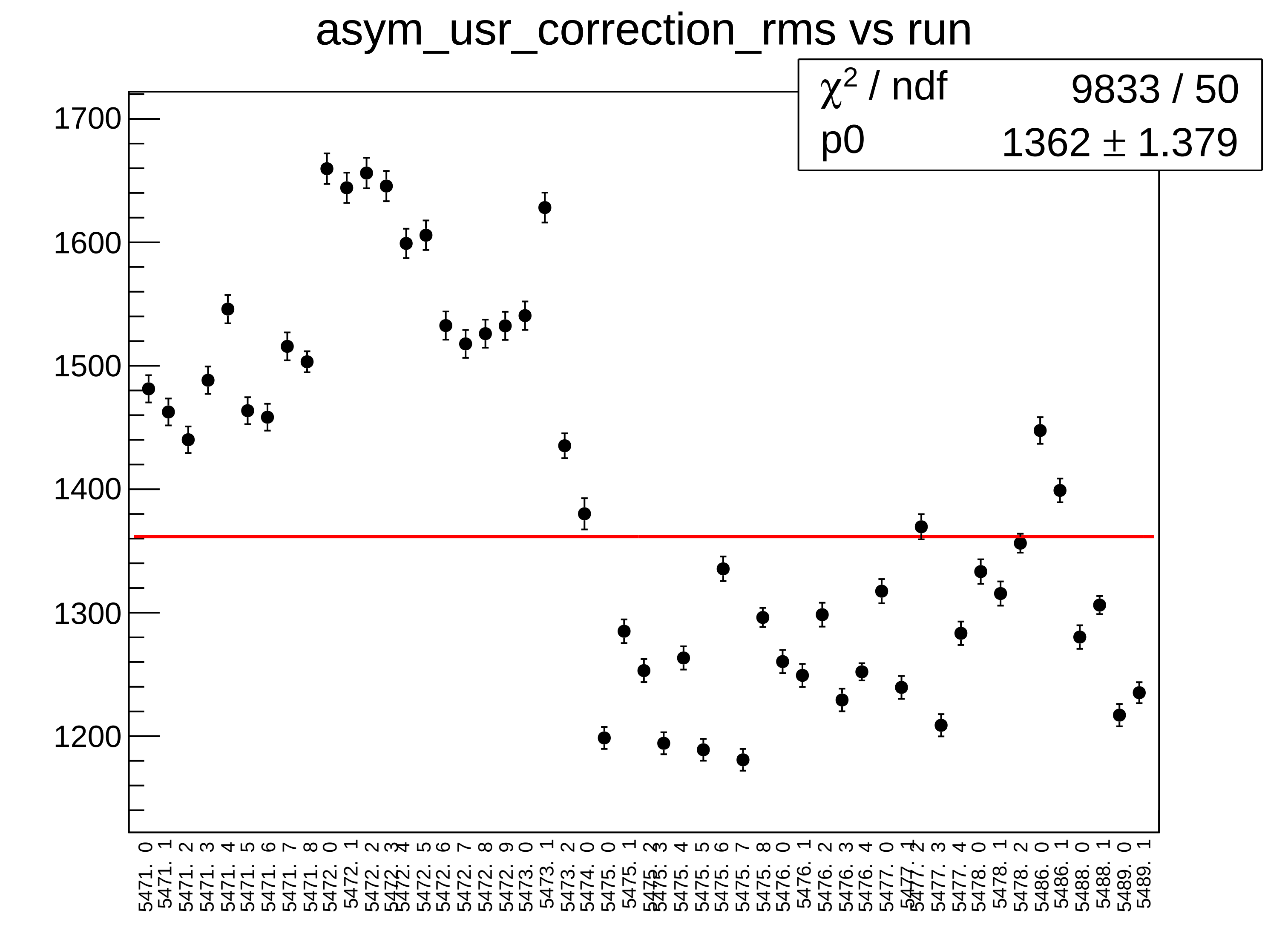


reg_asym_usr_mean vs run
χ^2 / ndf 49.36 / 50
p0 −950.9 ± 1570
pull
Entries 51
Mean 413.7
Std Dev 385.3
pull1D
Entries 51
Mean 0.004102
Std Dev 0.9837

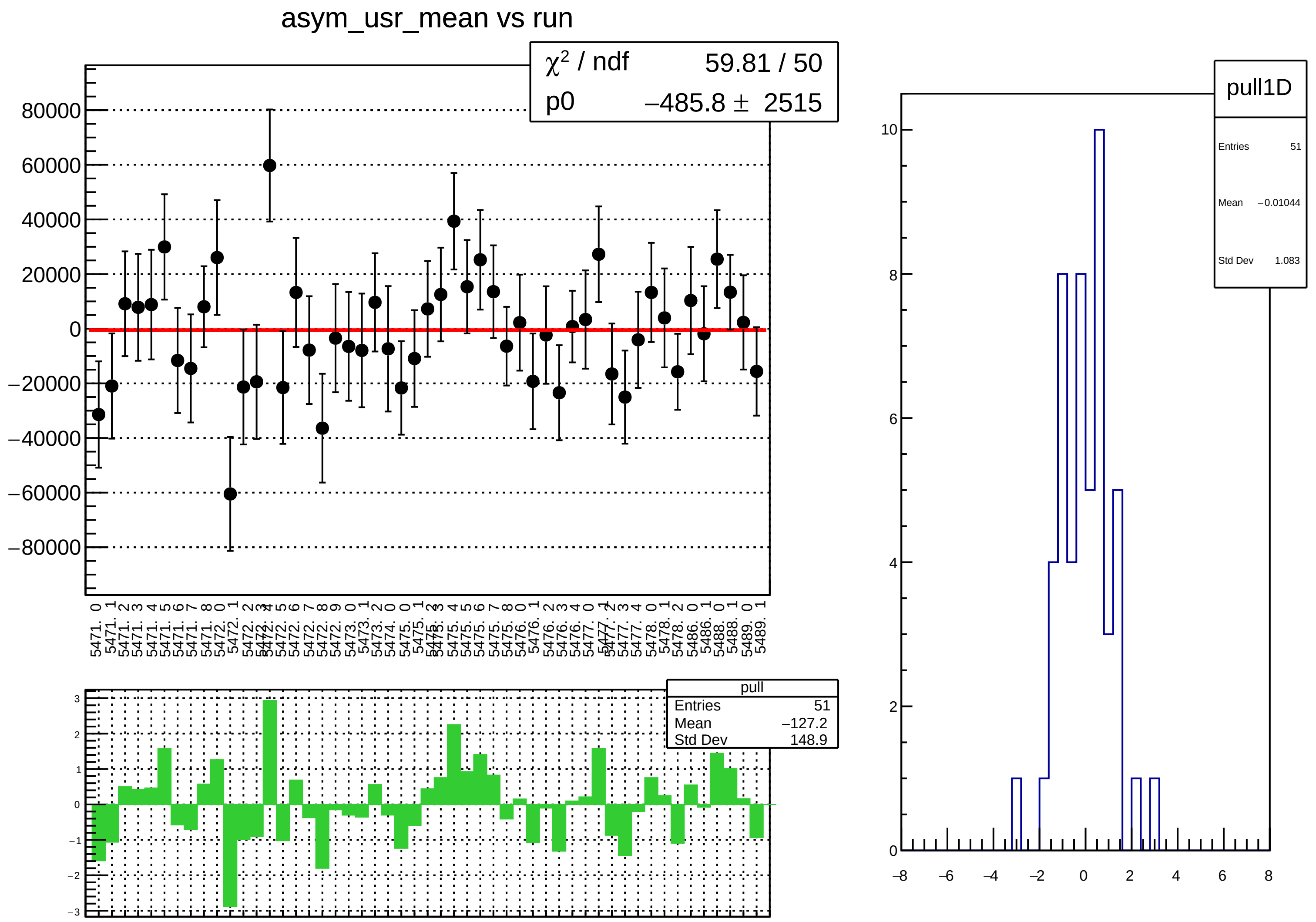

reg_asym_usr_rms vs run
χ2 / ndf 171.9 / 50
p0 1102 ± 1.11
1060
1080
1100
1120
1140
1160
1180



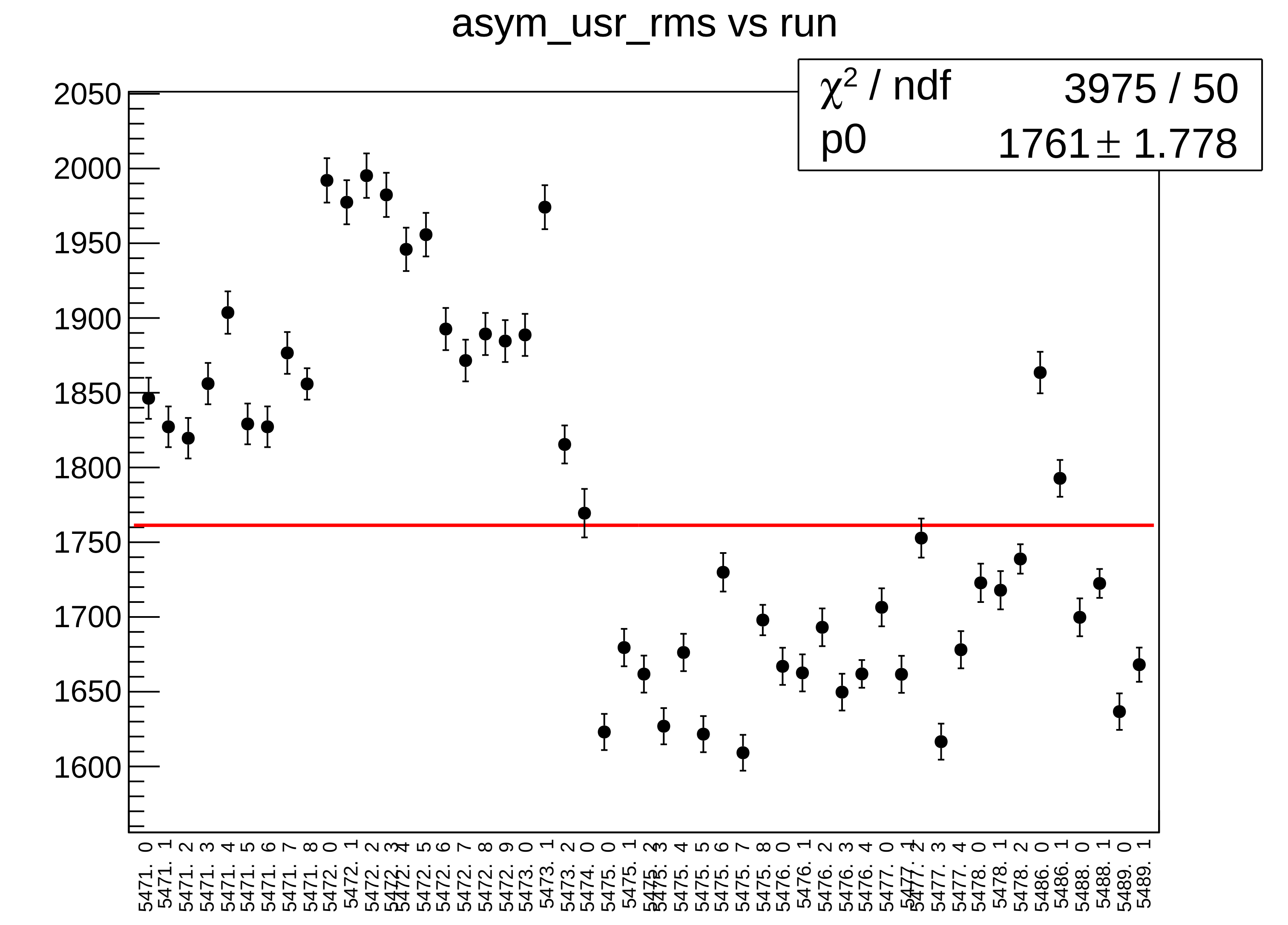
asym_usr_correction_mean vs run
χ² / ndf 55.42 / 50
p0 −361.1 ± 1950
pull
Entries 51
Mean −29.46
Std Dev 36.26
pull1D
Entries 51
Mean 0.01296
Std Dev 1.042



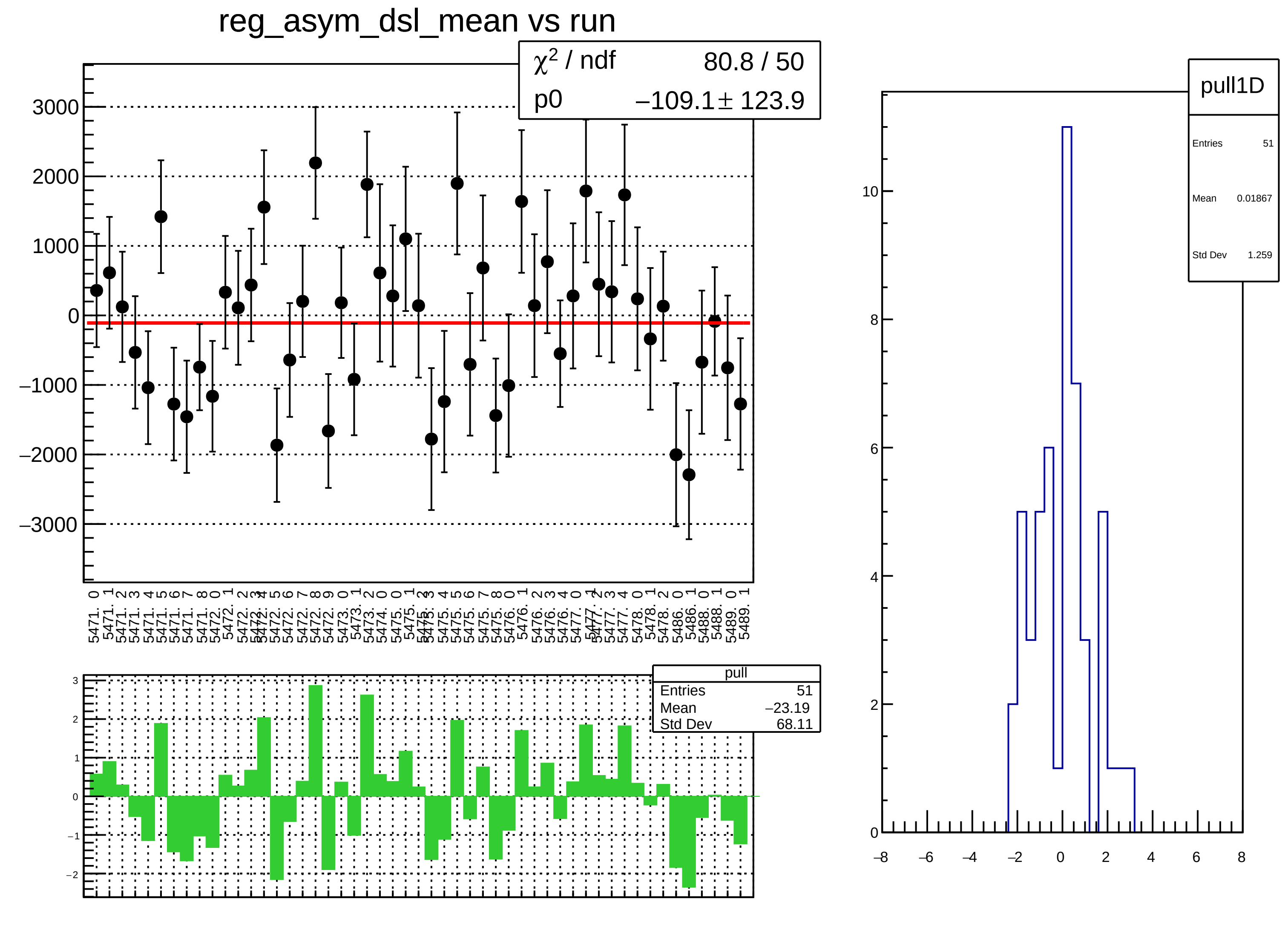
asym_usr_correction_rms vs run
χ^2 / ndf 9833 / 50
p0 1362 ± 1.379
1700
1600
1500
1400
1300
1200



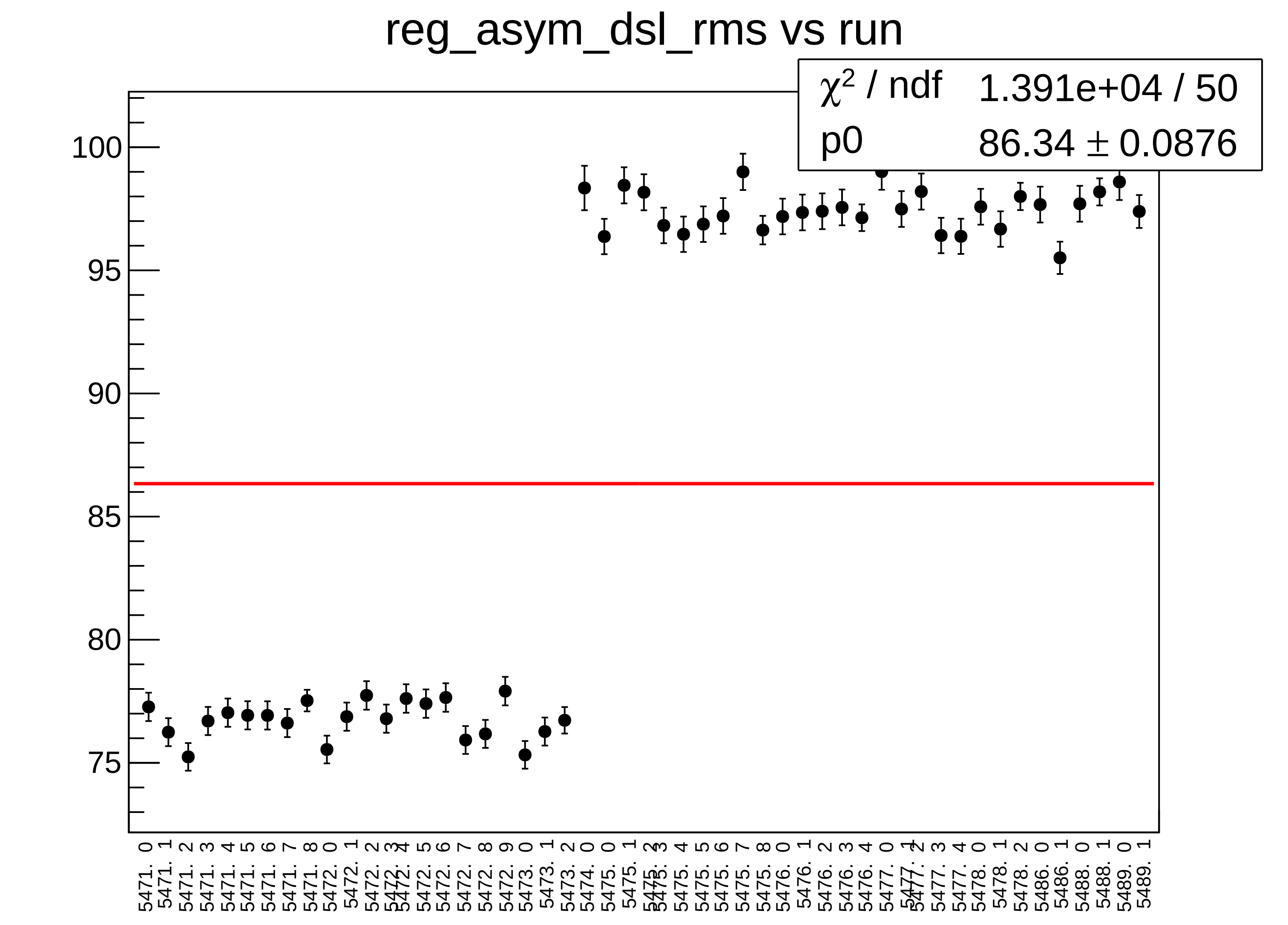
asym_usr_mean vs run
χ^2 / ndf 59.81 / 50
p0 −485.8 ± 2515
pull
Entries 51
Mean −127.2
Std Dev 148.9
pull1D
Entries 51
Mean −0.01044
Std Dev 1.083



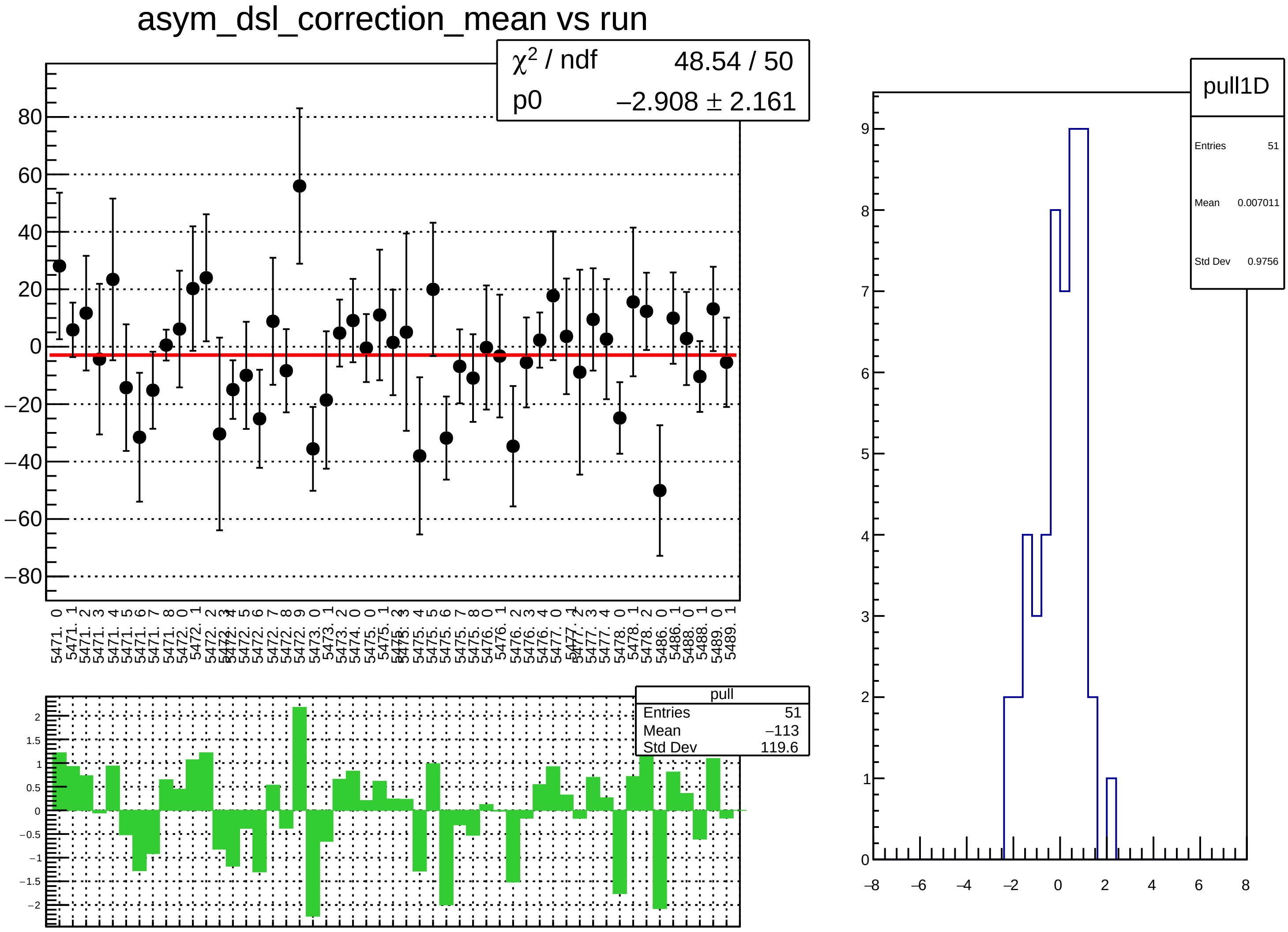
asym_usr_rms vs run
χ2 / ndf 3975 / 50
p0 1761 ± 1.778
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



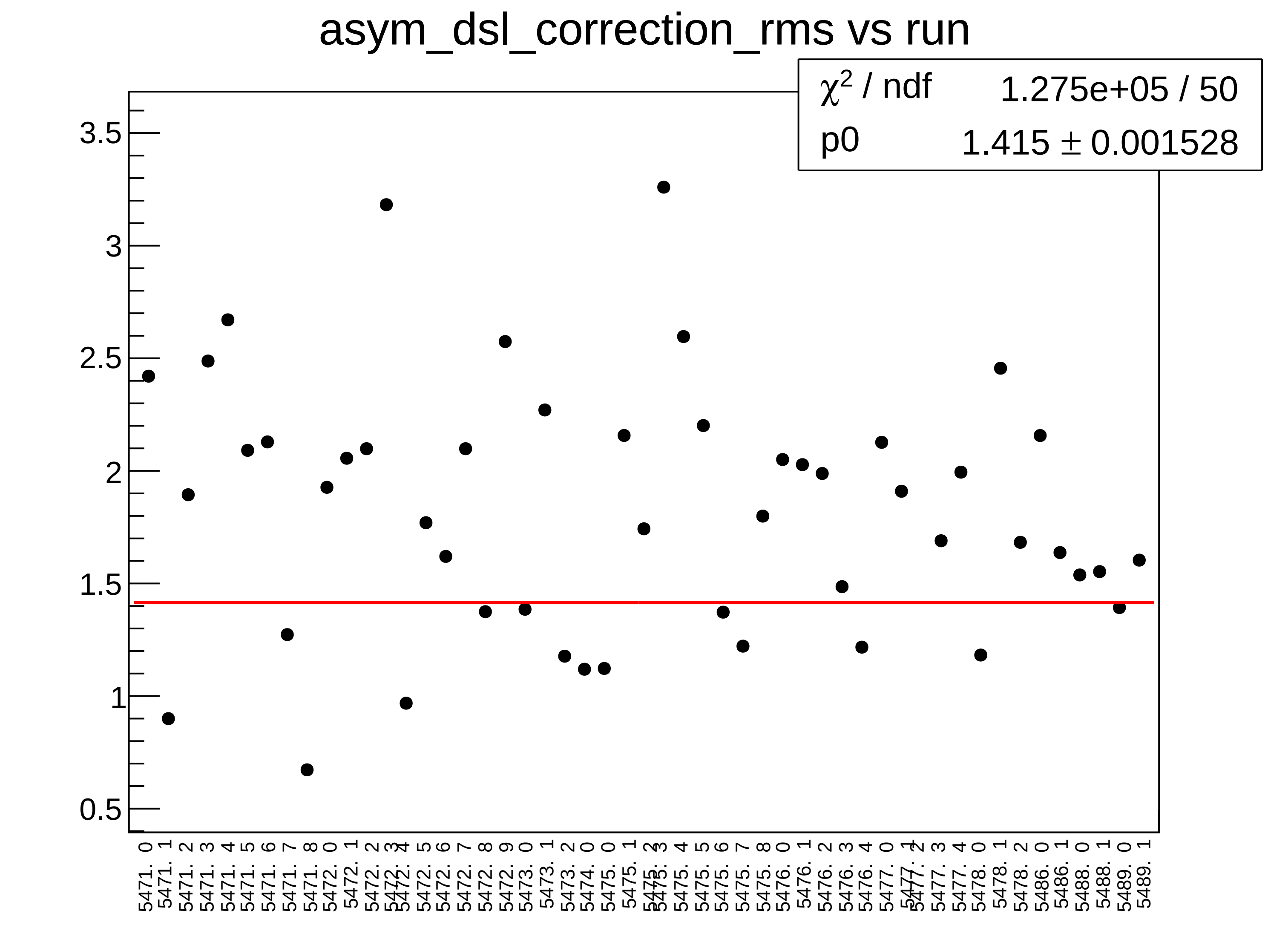
reg_asym_dsl_mean vs run
χ^2 / ndf 80.8 / 50
p0 −109.1 ± 123.9
pull
Entries 51
Mean −23.19
Std Dev 68.11
pull1D
Entries 51
Mean 0.01867
Std Dev 1.259

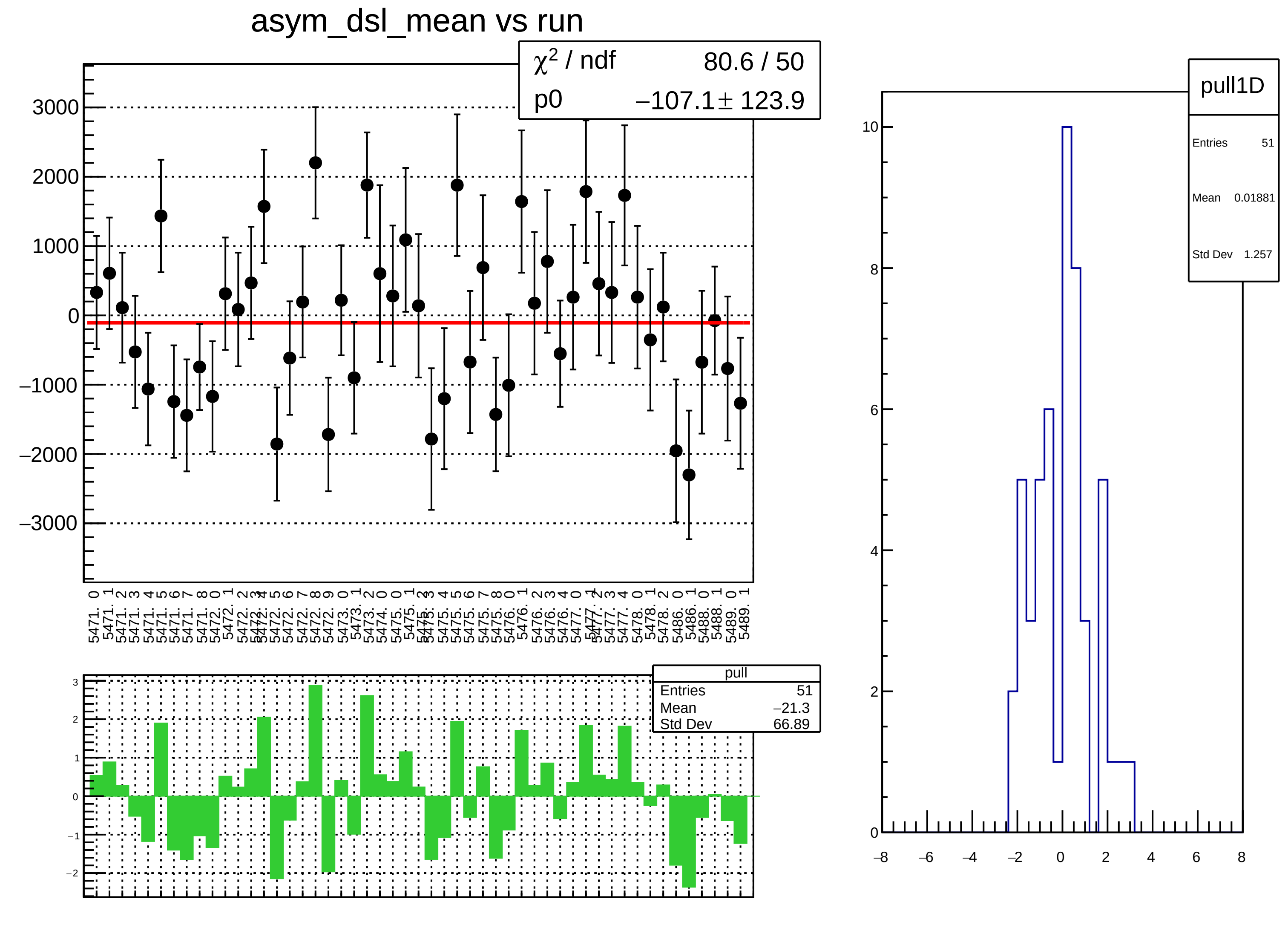


reg_asym_dsl_rms vs run
χ2 / ndf 1.391e+04 / 50
p0 86.34 ± 0.0876

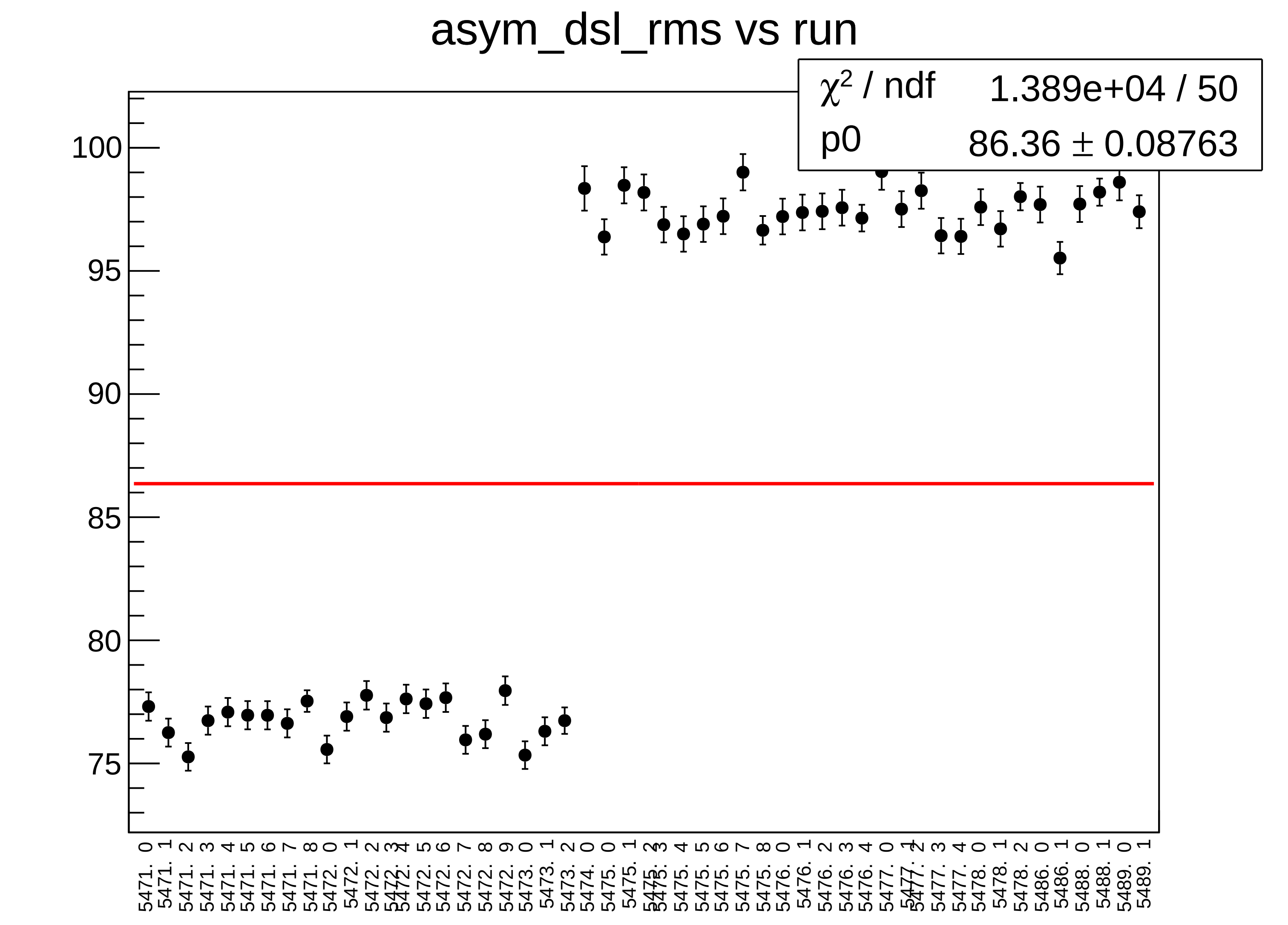


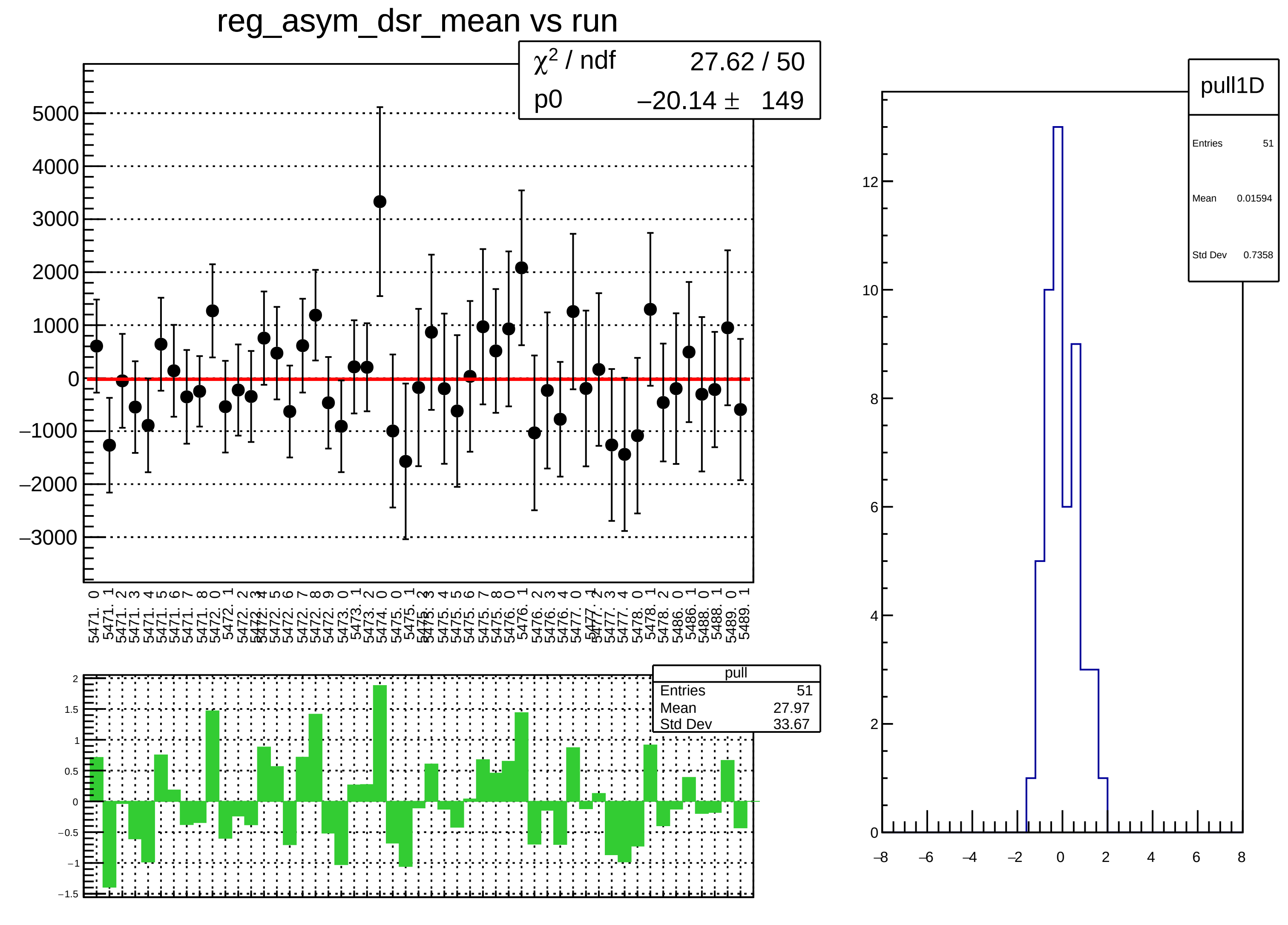
asym_dsl_correction_mean vs run
χ^2 / ndf 48.54 / 50
p0 −2.908 ± 2.161
pull
Entries 51
Mean −113
Std Dev 119.6
pull1D
Entries 51
Mean 0.007011
Std Dev 0.9756


asym_dsl_correction_rms vs run
χ2 / ndf 1.275e+05 / 50
p0 1.415 ± 0.001528
3.5
3
2.5
2
1.5
1
0.5
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

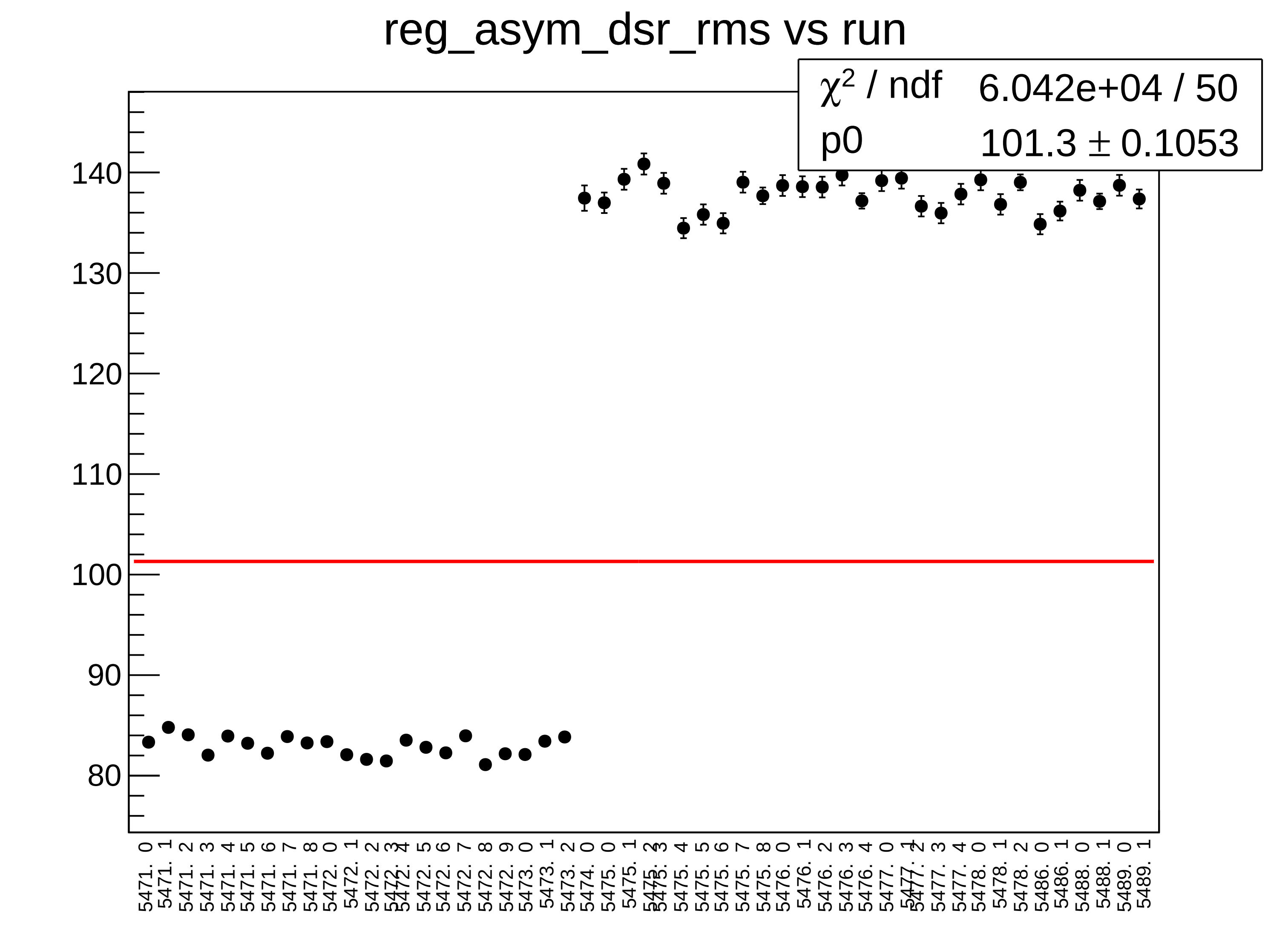


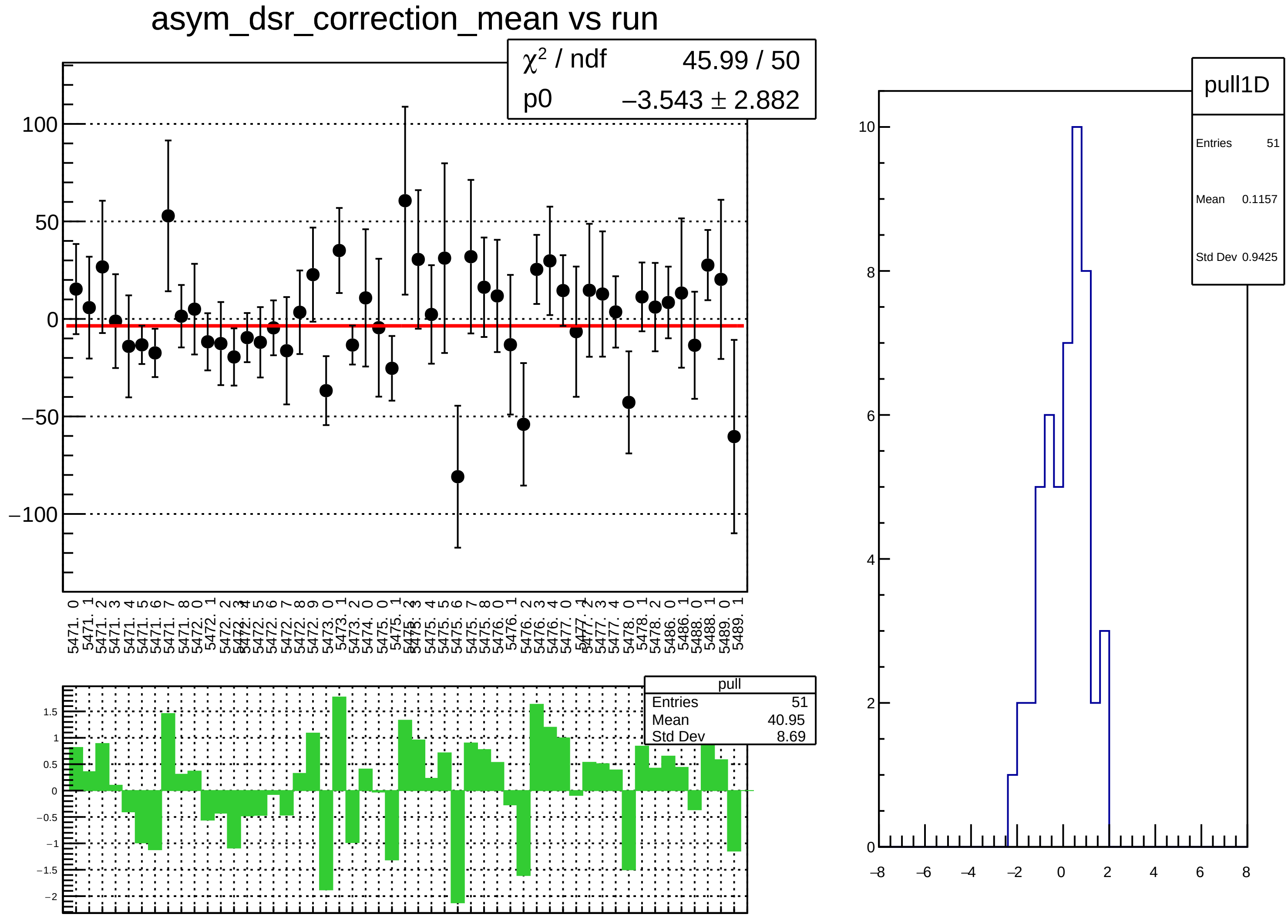
asym_dsl_mean vs run
χ2 / ndf 80.6 / 50
p0 −107.1 ± 123.9
pull
Entries 51
Mean −21.3
Std Dev 66.89
pull1D
Entries 51
Mean 0.01881
Std Dev 1.257

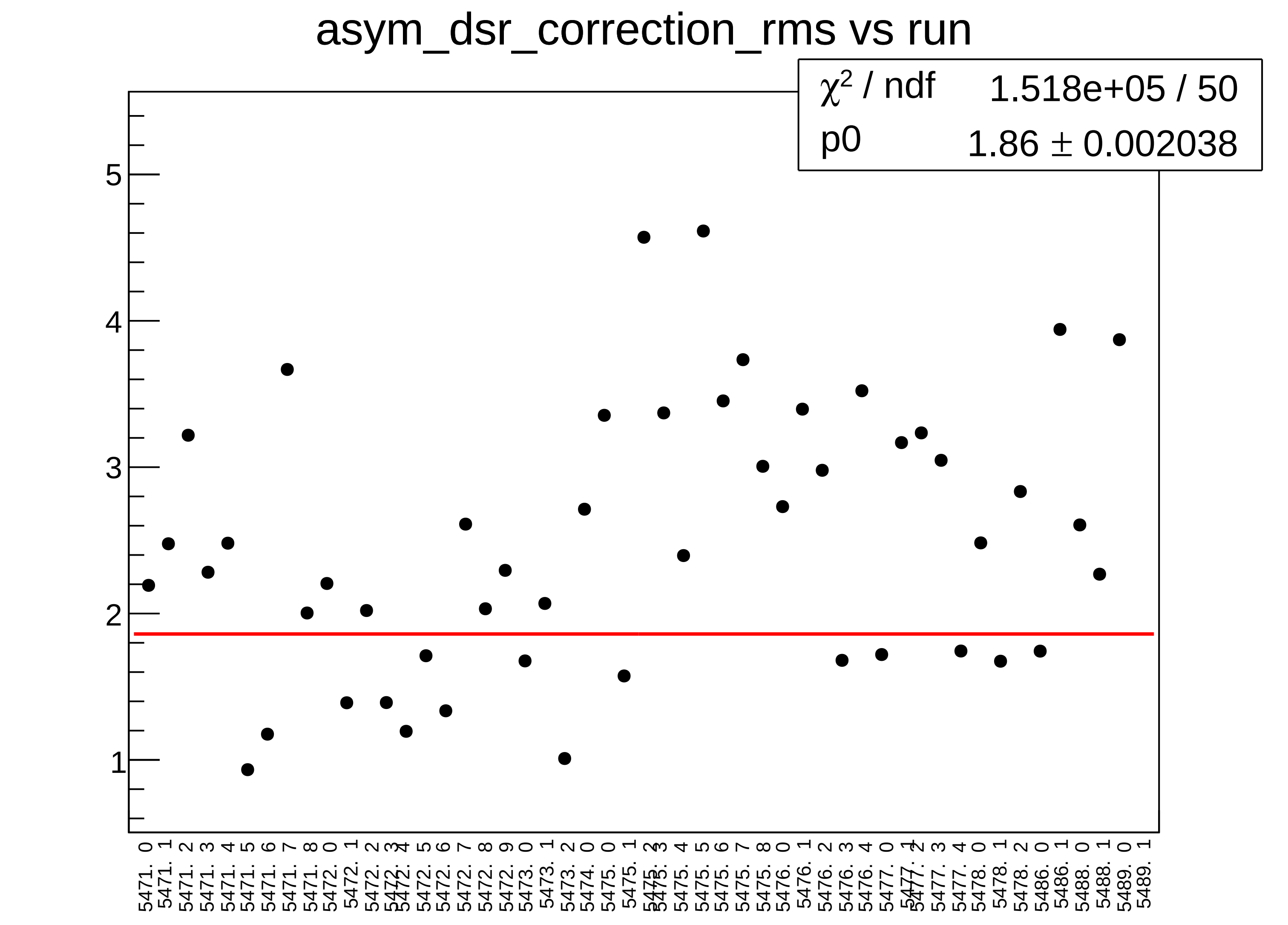

asym_dsl_rms vs run
χ^2 / ndf 1.389e+04 / 50
p0 86.36 ± 0.08763
100
95
90
85
80
75
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



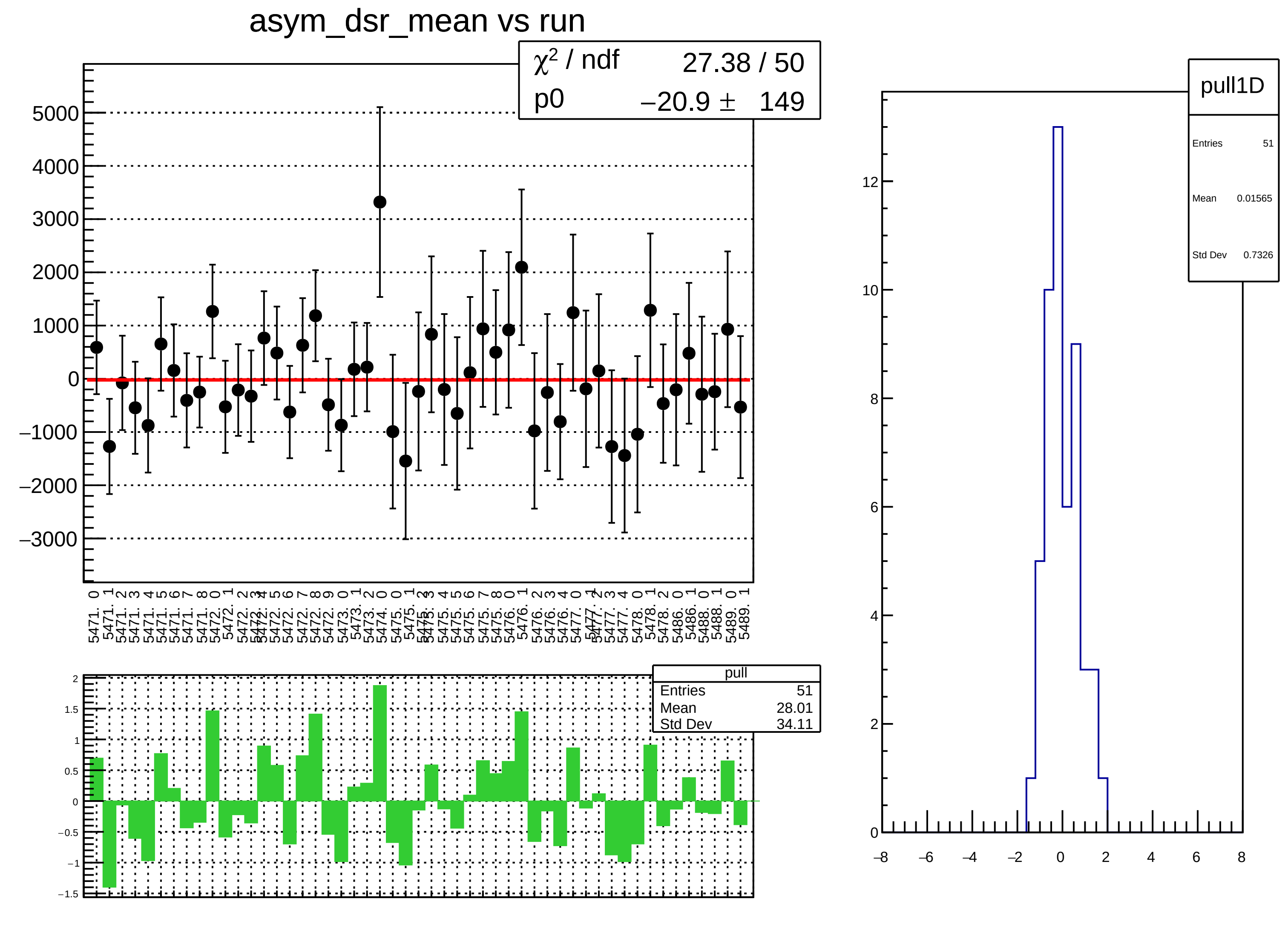
reg_asym_dsr_mean vs run
χ^2 / ndf 27.62 / 50
p0 −20.14 ± 149
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 27.97
Std Dev 33.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean 0.01594
Std Dev 0.7358
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_rms vs run
χ^2 / ndf 6.042e+04 / 50
p0 101.3 ± 0.1053
140
130
120
110
100
90
80


asym_dsr_correction_mean vs run
χ² / ndf 45.99 / 50
p0 −3.543 ± 2.882
pull
Entries 51
Mean 40.95
Std Dev 8.69
pull1D
Entries 51
Mean 0.1157
Std Dev 0.9425

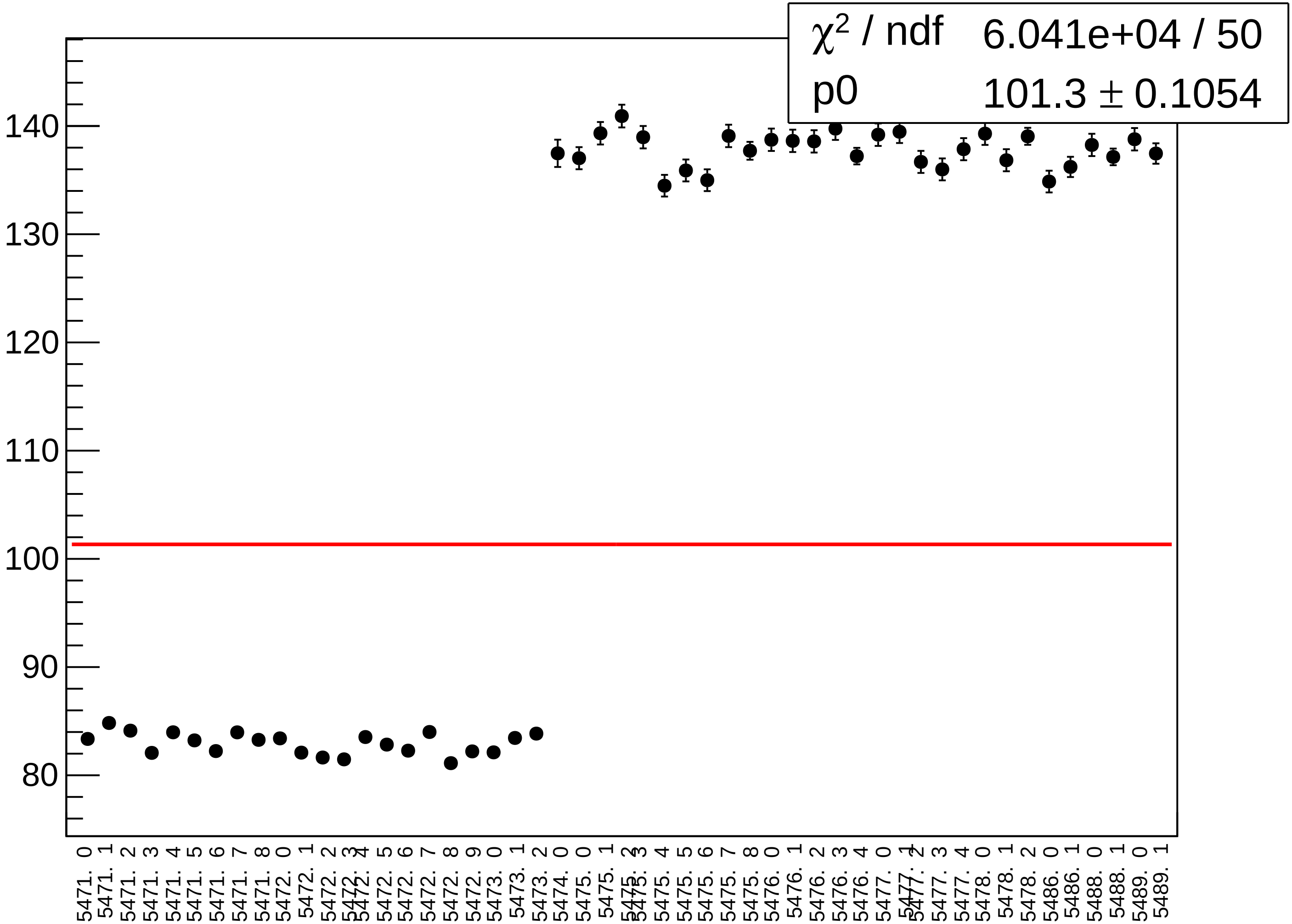


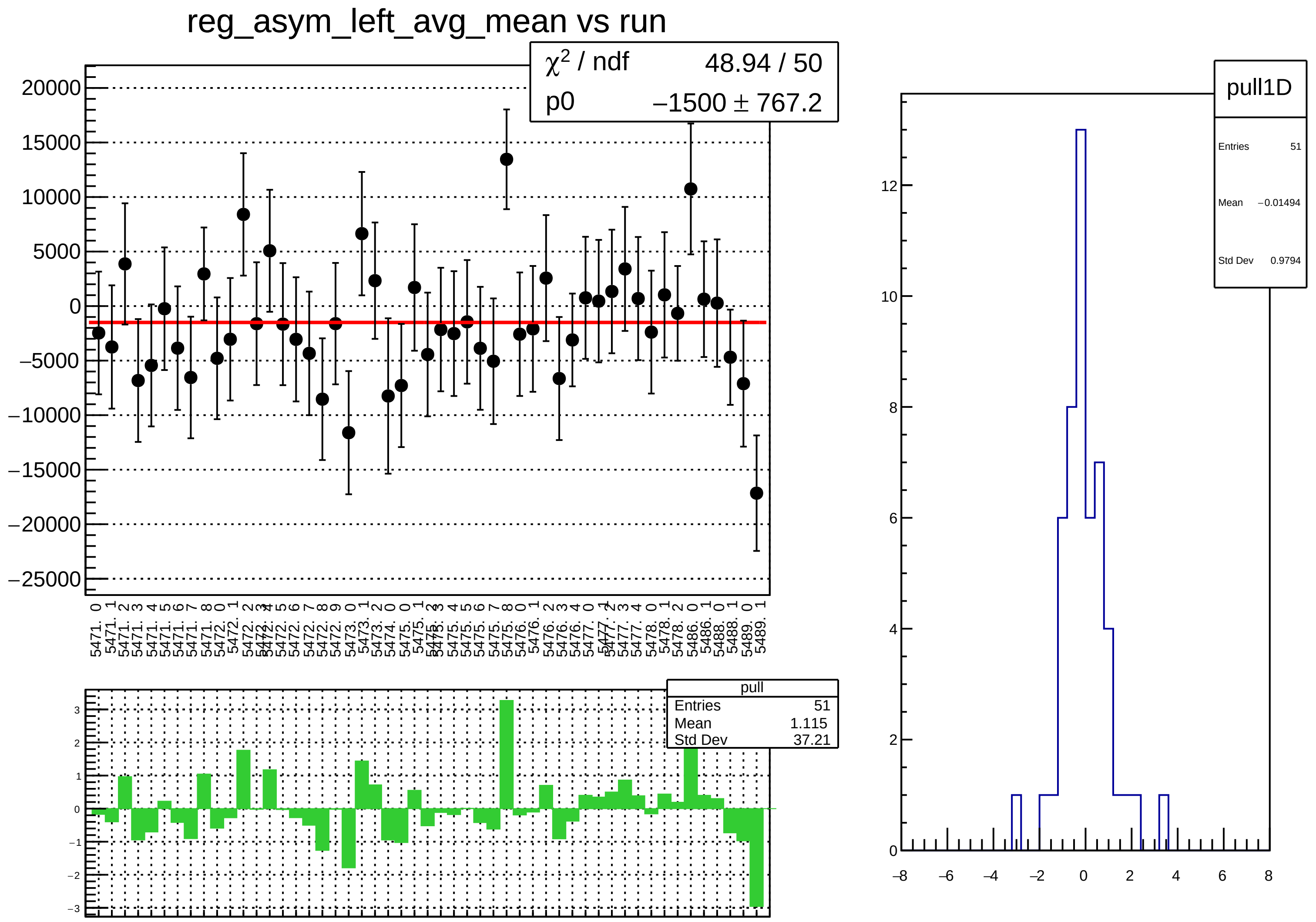
asym_dsr_correction_rms vs run
χ^2 / ndf 1.518e+05 / 50
p0 1.86 ± 0.002038
1
2
3
4
5
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



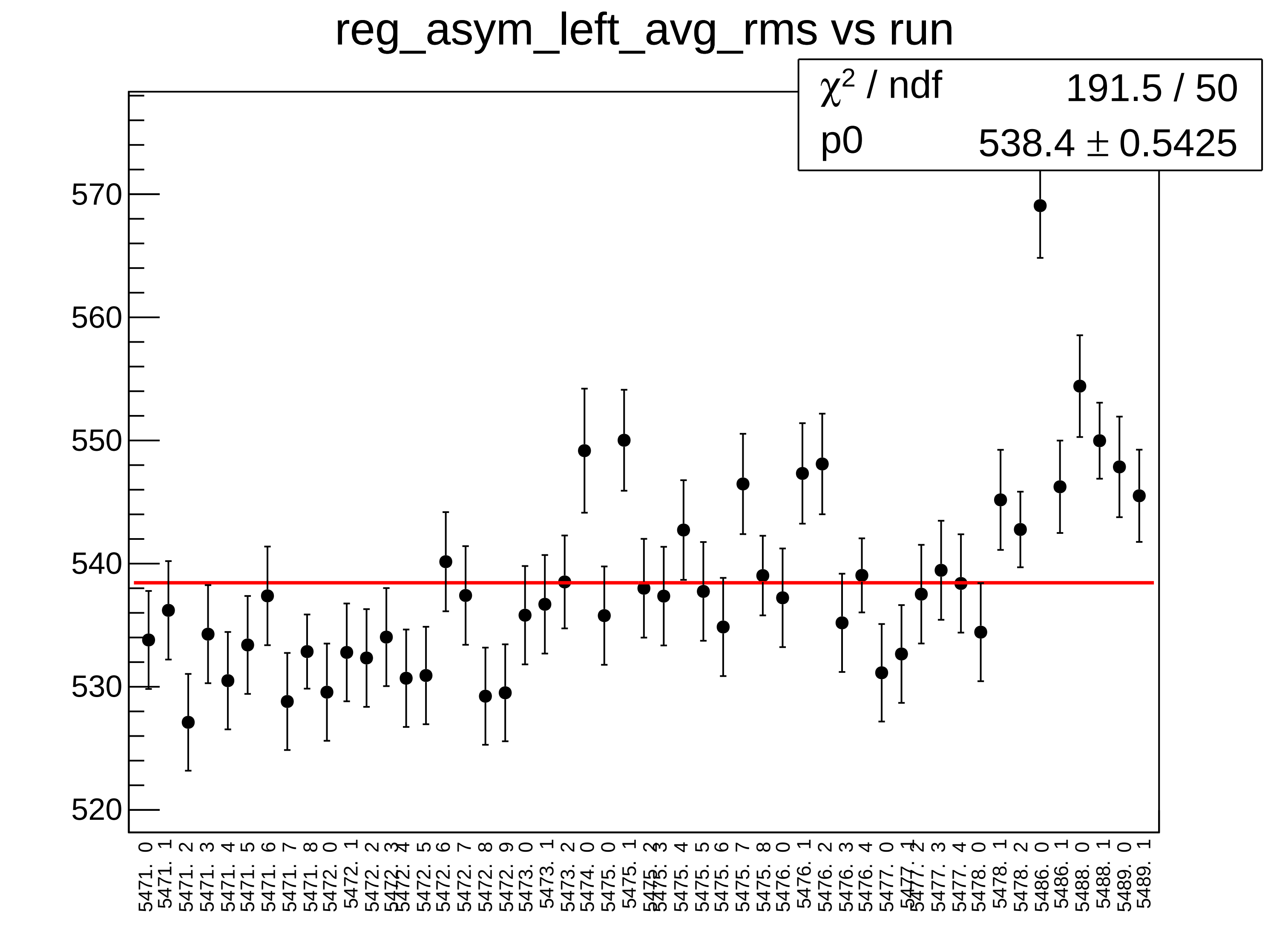
asym_dsr_mean vs run
χ^2 / ndf 27.38 / 50
p0 −20.9 ± 149
pull
Entries 51
Mean 28.01
Std Dev 34.11
pull1D
Entries 51
Mean 0.01565
Std Dev 0.7326

asym_dsr_rms vs run

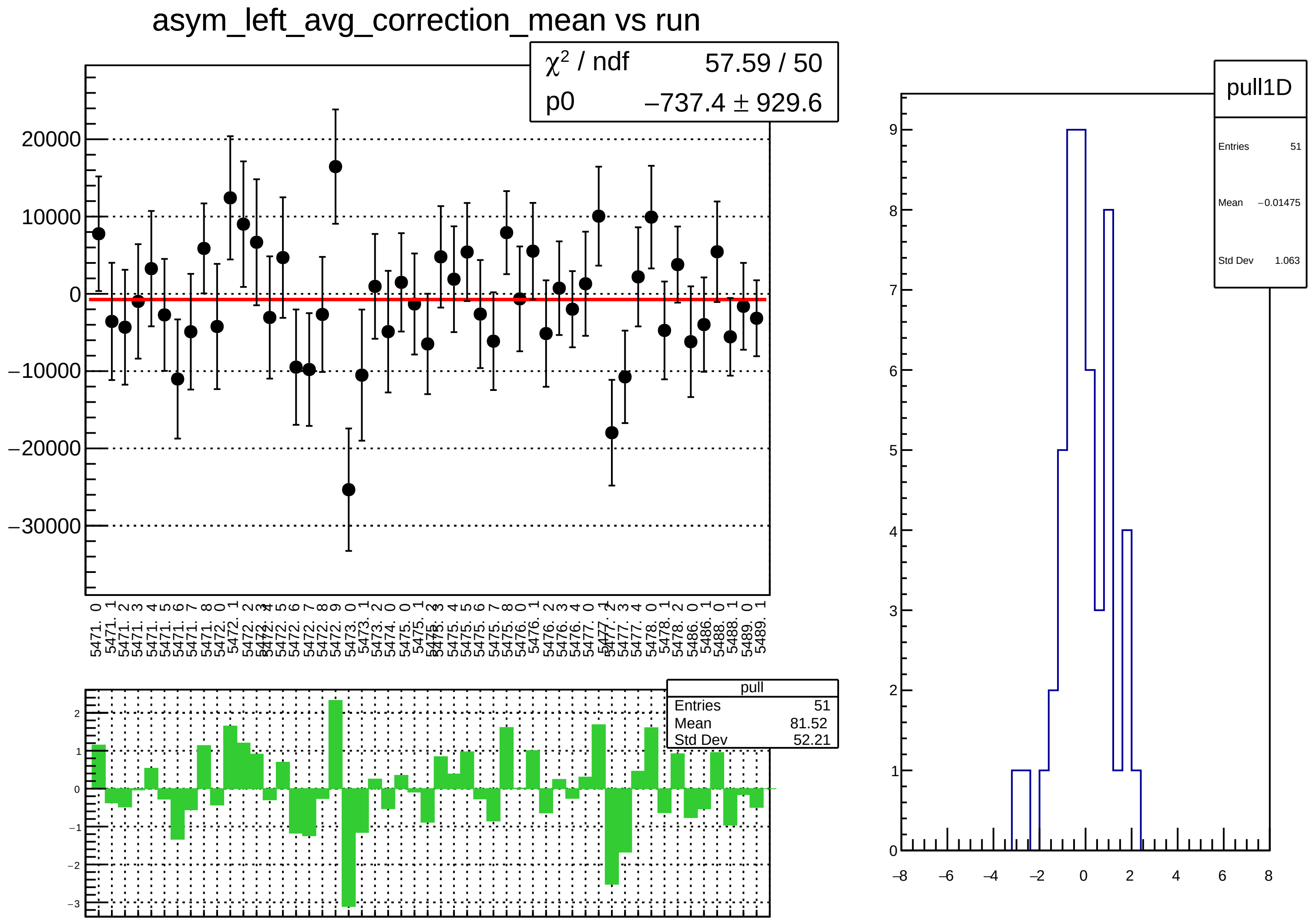




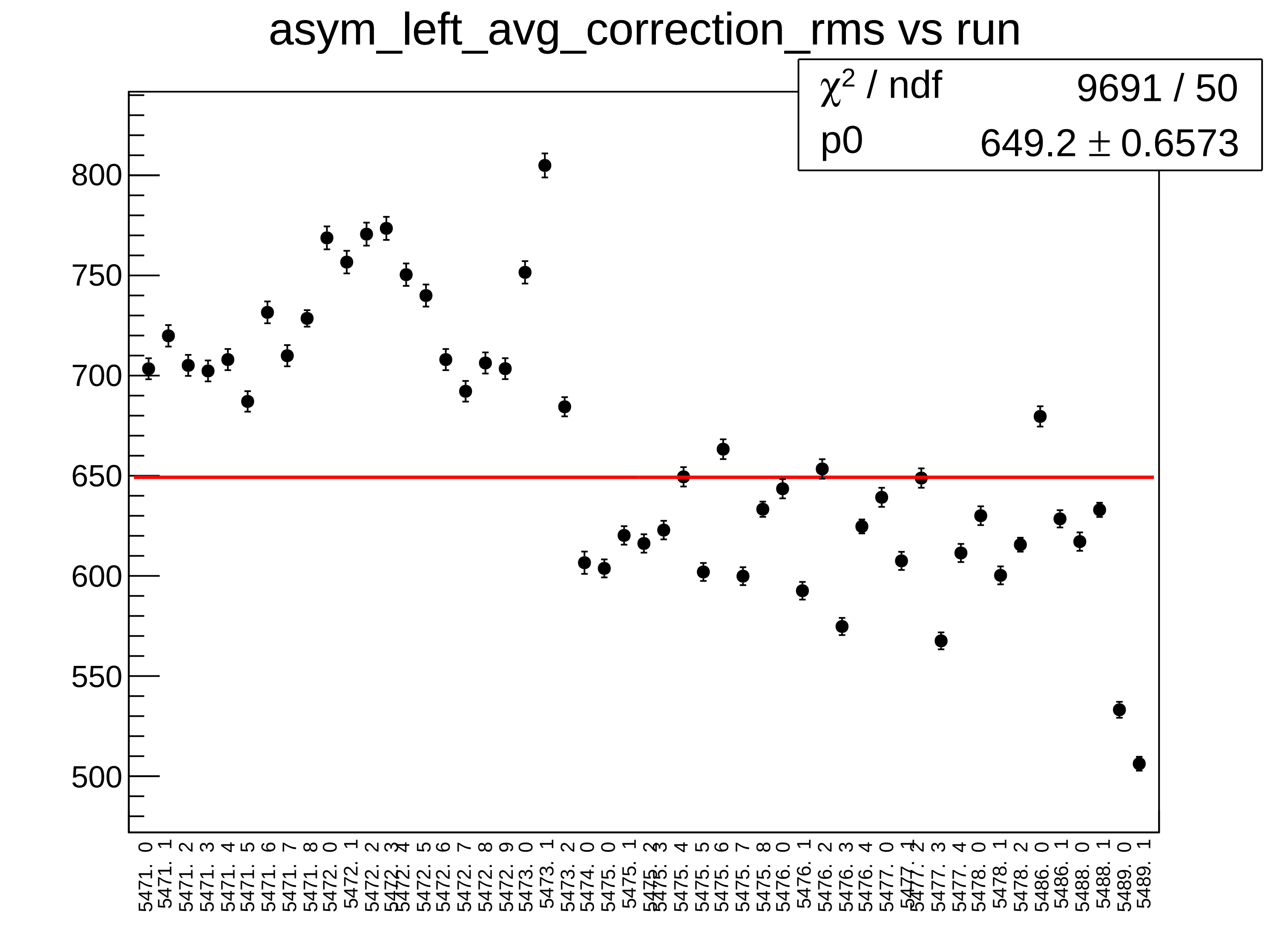
reg_asym_left_avg_mean vs run
χ2 / ndf 48.94 / 50
p0 −1500 ± 767.2
pull
Entries 51
Mean 1.115
Std Dev 37.21
pull1D
Entries 51
Mean −0.01494
Std Dev 0.9794



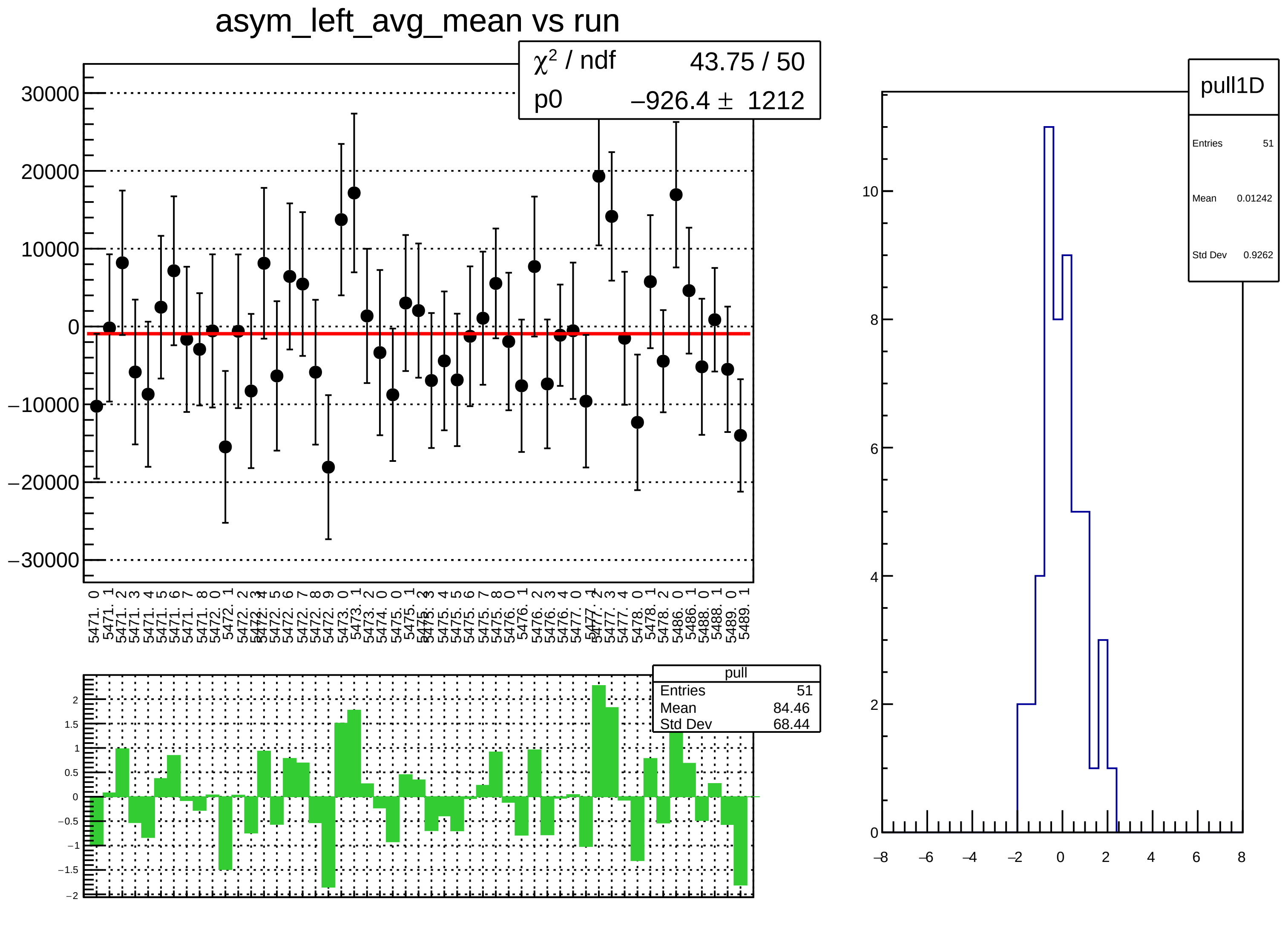
reg_asym_left_avg_rms vs run
χ2 / ndf 191.5 / 50
p0 538.4 ± 0.5425
570
560
550
540
530
520

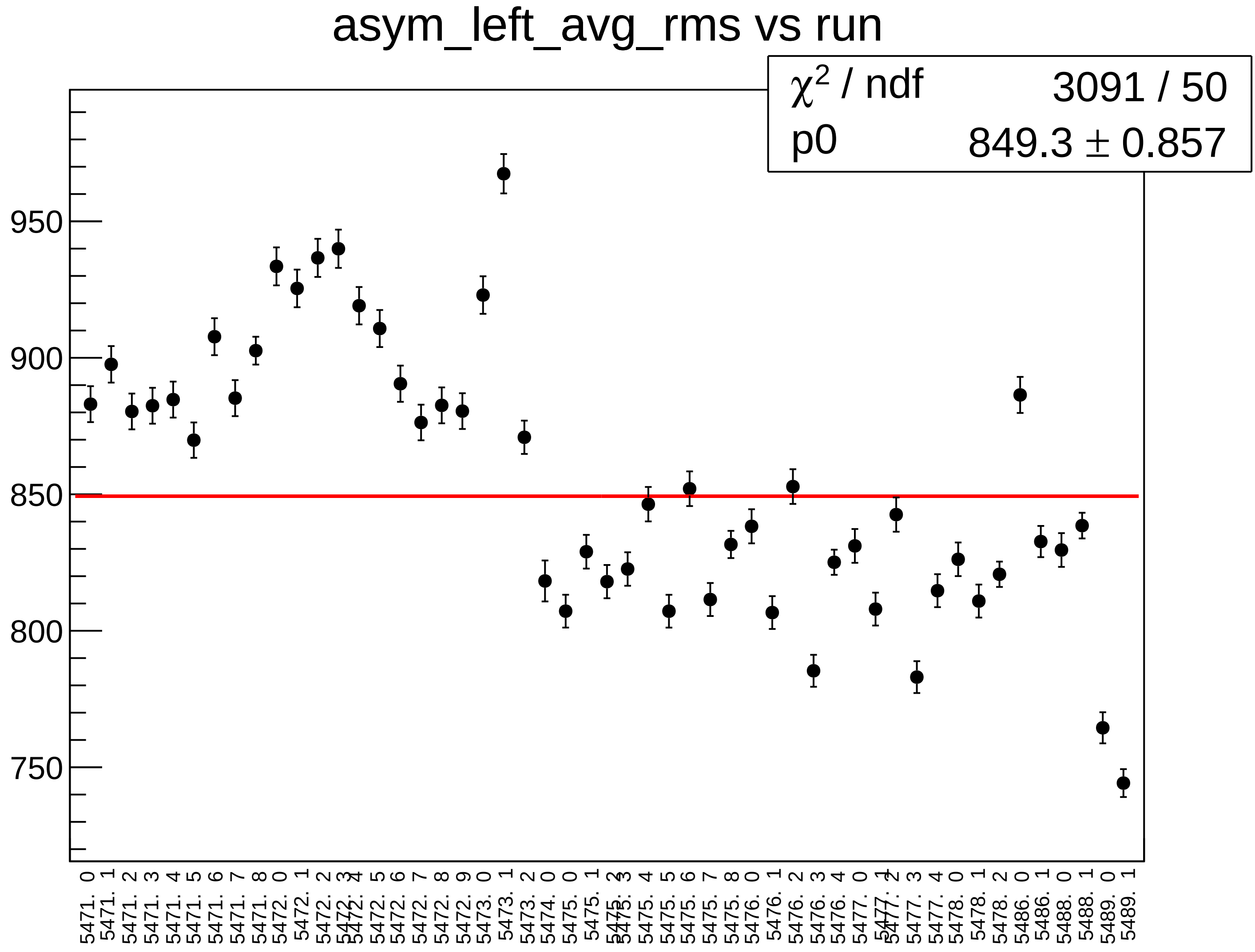


asym_left_avg_correction_mean vs run
χ^2 / ndf 57.59 / 50
p0 −737.4 ± 929.6
pull
Entries 51
Mean 81.52
Std Dev 52.21
pull1D
Entries 51
Mean −0.01475
Std Dev 1.063

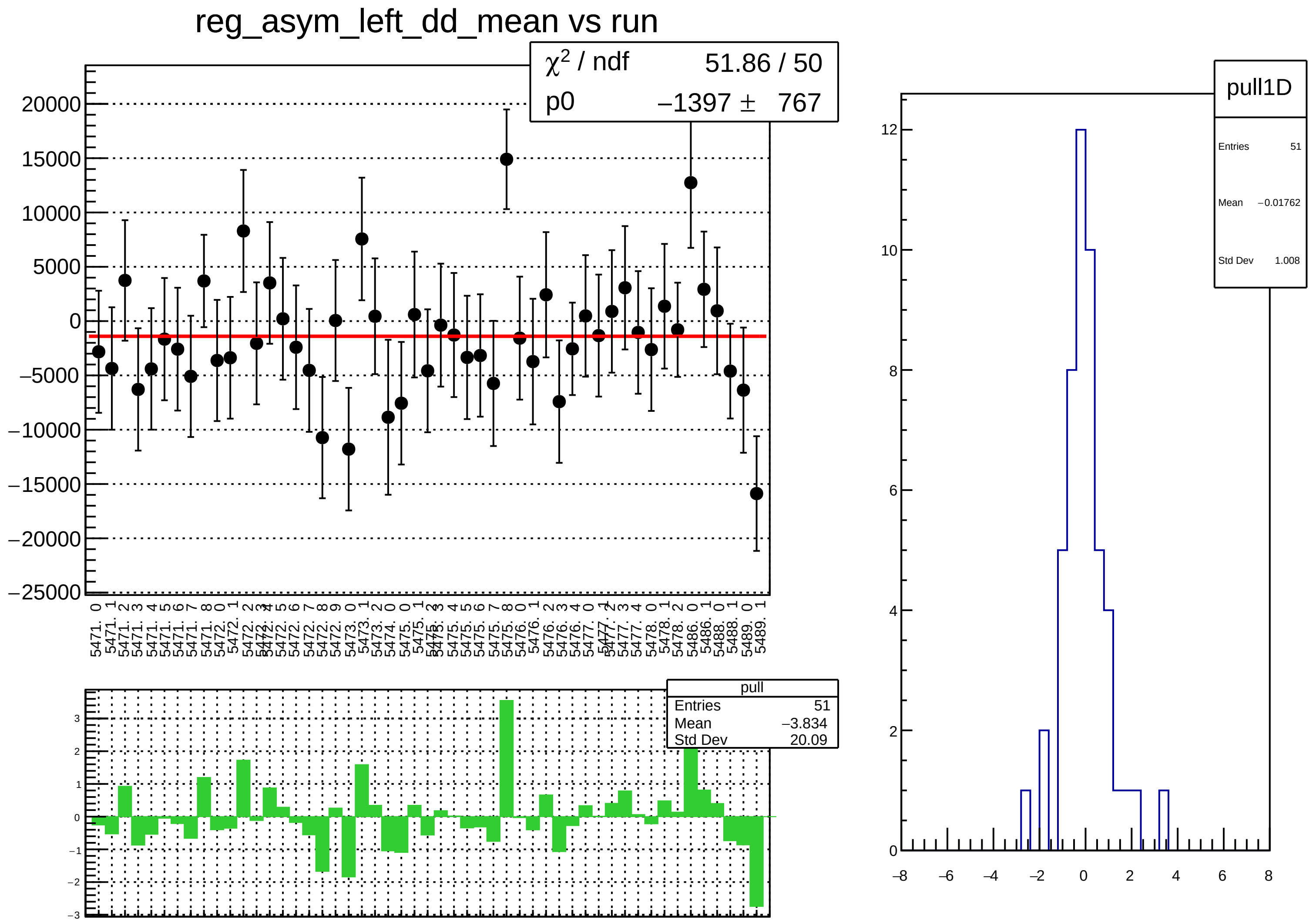


asym_left_avg_correction_rms vs run
χ^2 / ndf 9691 / 50
p0 649.2 ± 0.6573
800
750
700
650
600
550
500
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

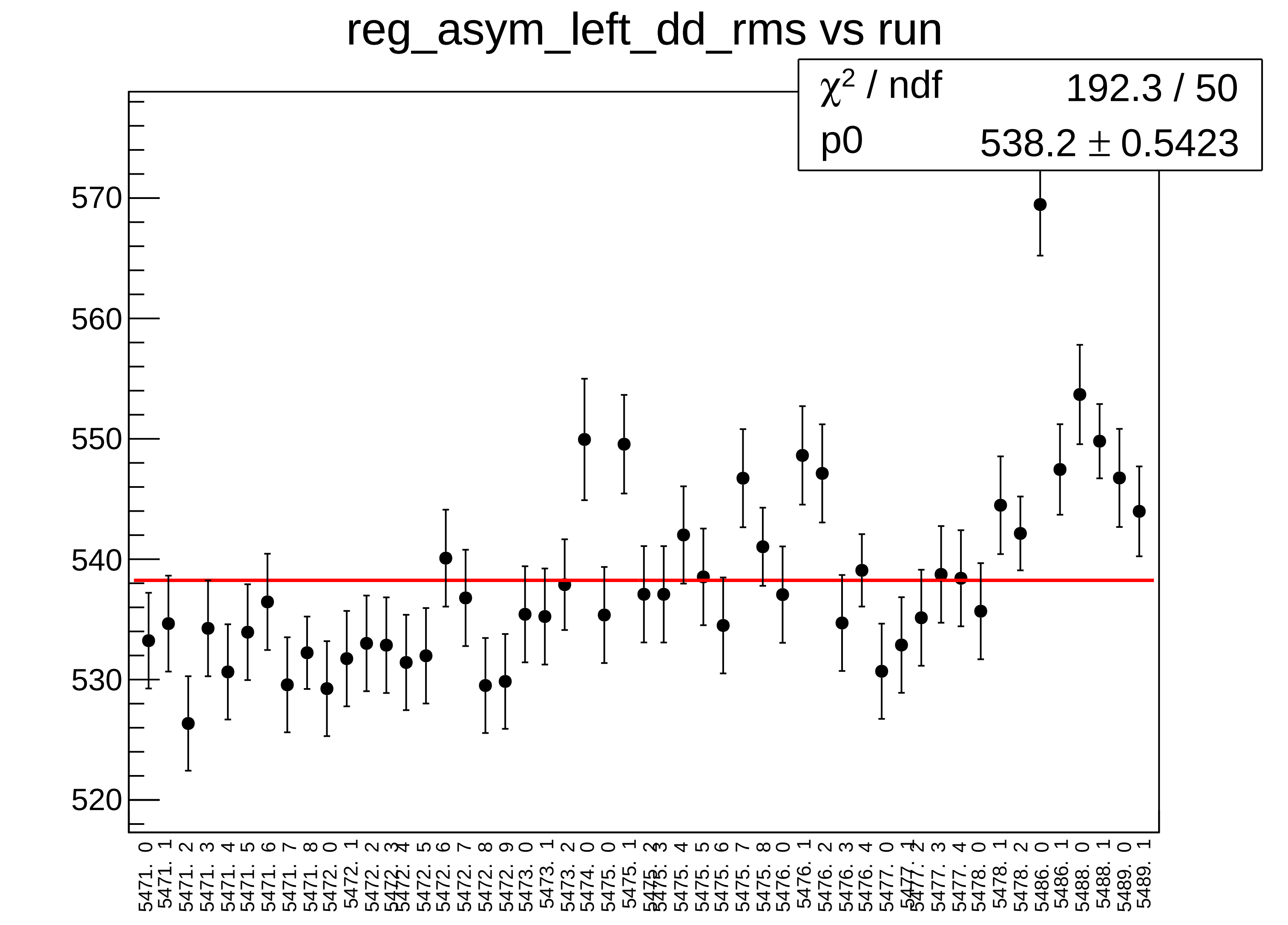

asym_left_avg_mean vs run
χ^2 / ndf 43.75 / 50
p0 −926.4 ± 1212
pull
Entries 51
Mean 84.46
Std Dev 68.44
pull1D
Entries 51
Mean 0.01242
Std Dev 0.9262



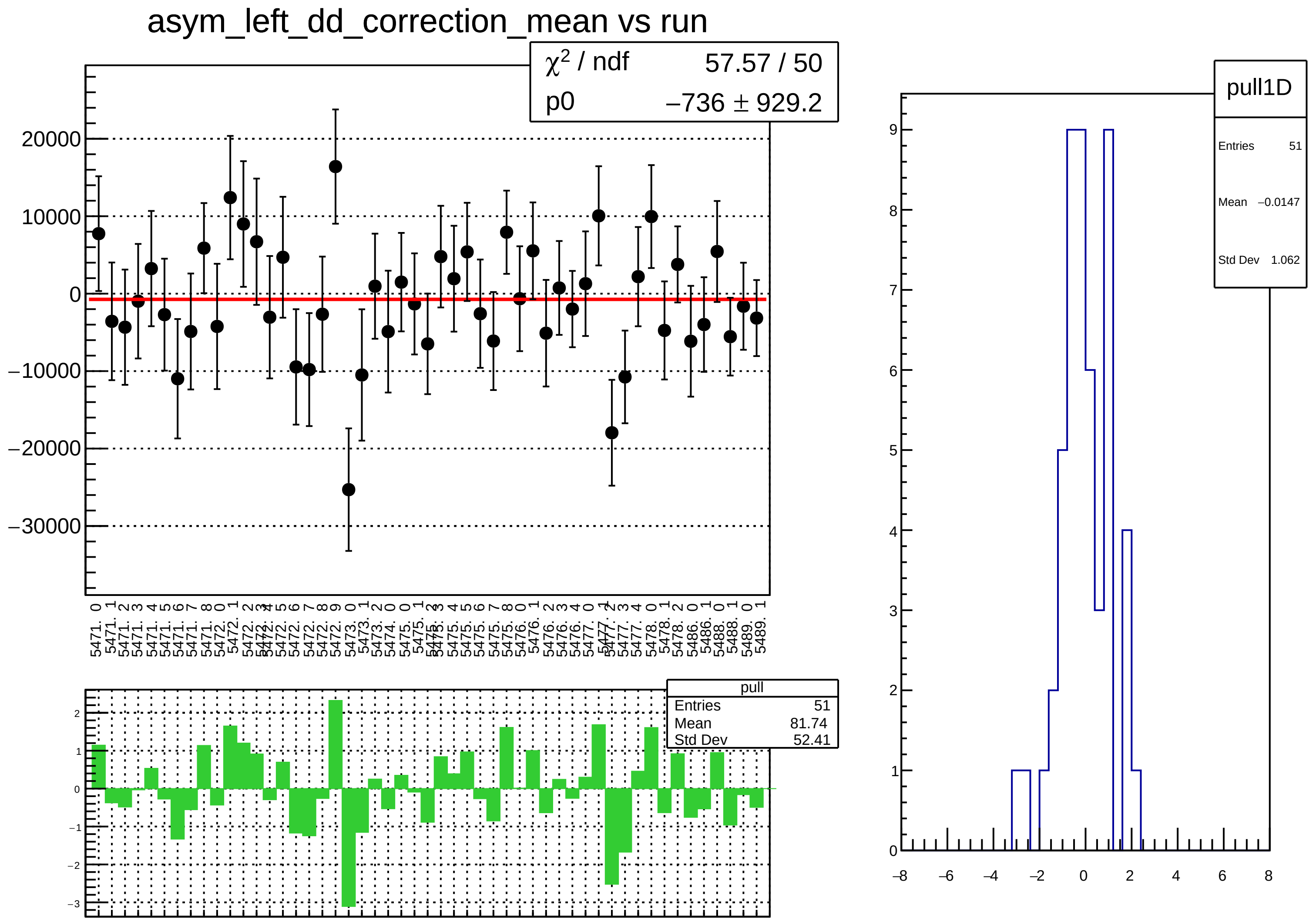
asym_left_avg_rms vs run
χ^2 / ndf 3091 / 50
p0 849.3 ± 0.857
950
900
850
800
750



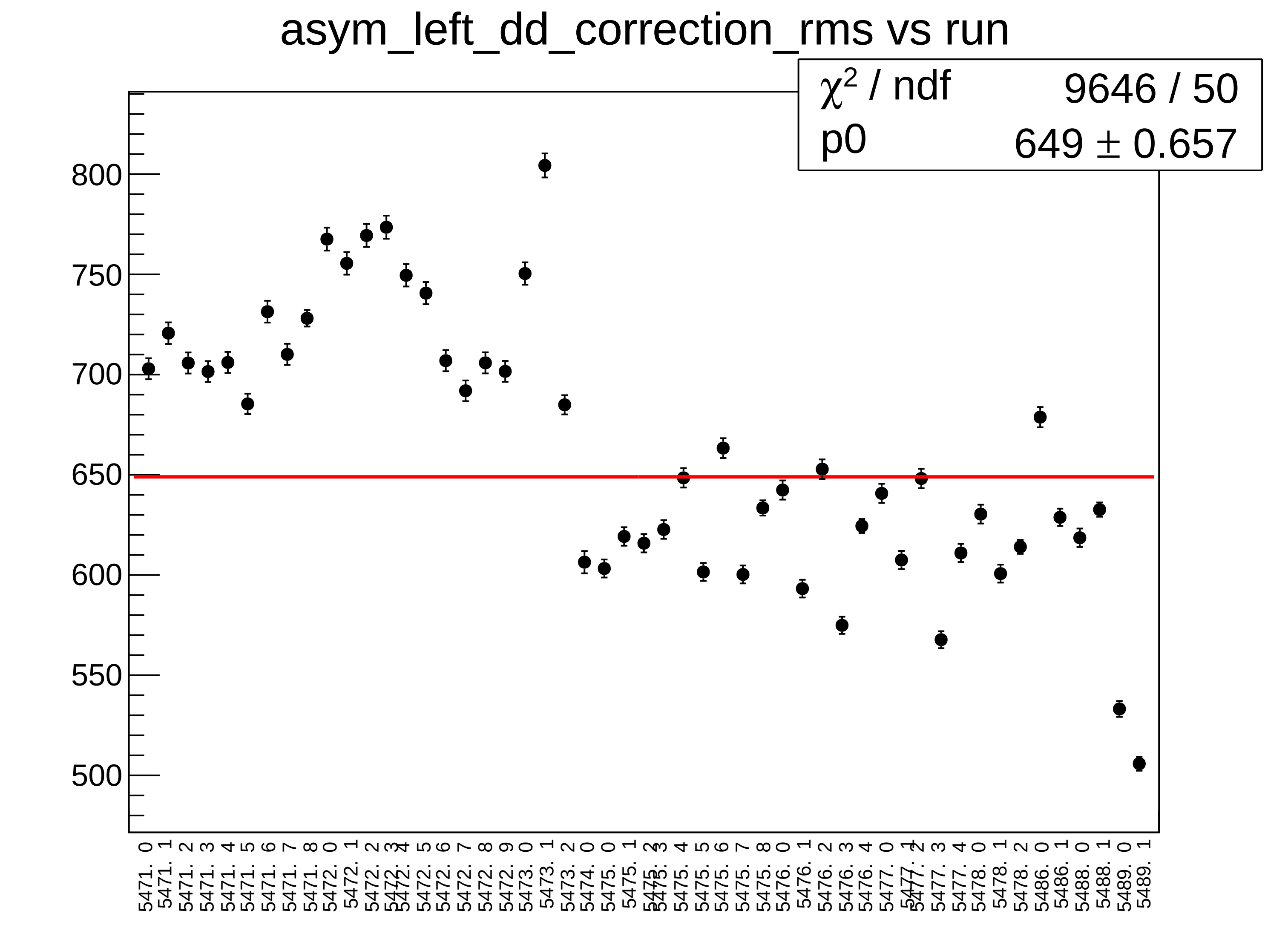
reg_asym_left_dd_mean vs run
χ^2 / ndf 51.86 / 50
p0 −1397 ± 767
pull
Entries 51
Mean −3.834
Std Dev 20.09
pull1D
Entries 51
Mean −0.01762
Std Dev 1.008

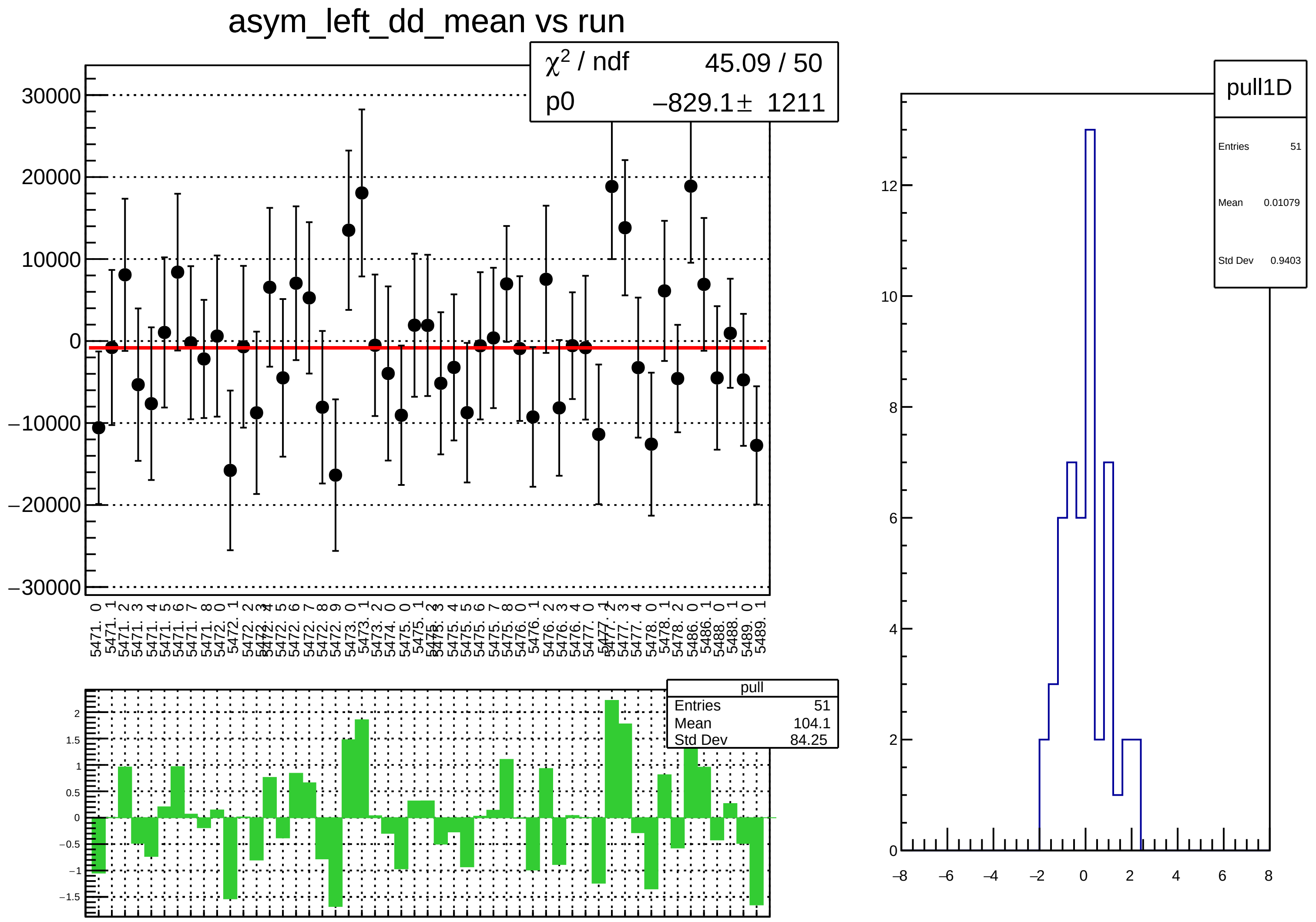


reg_asym_left_dd_rms vs run
χ^2 / ndf 192.3 / 50
p0 538.2 ± 0.5423
570
560
550
540
530
520

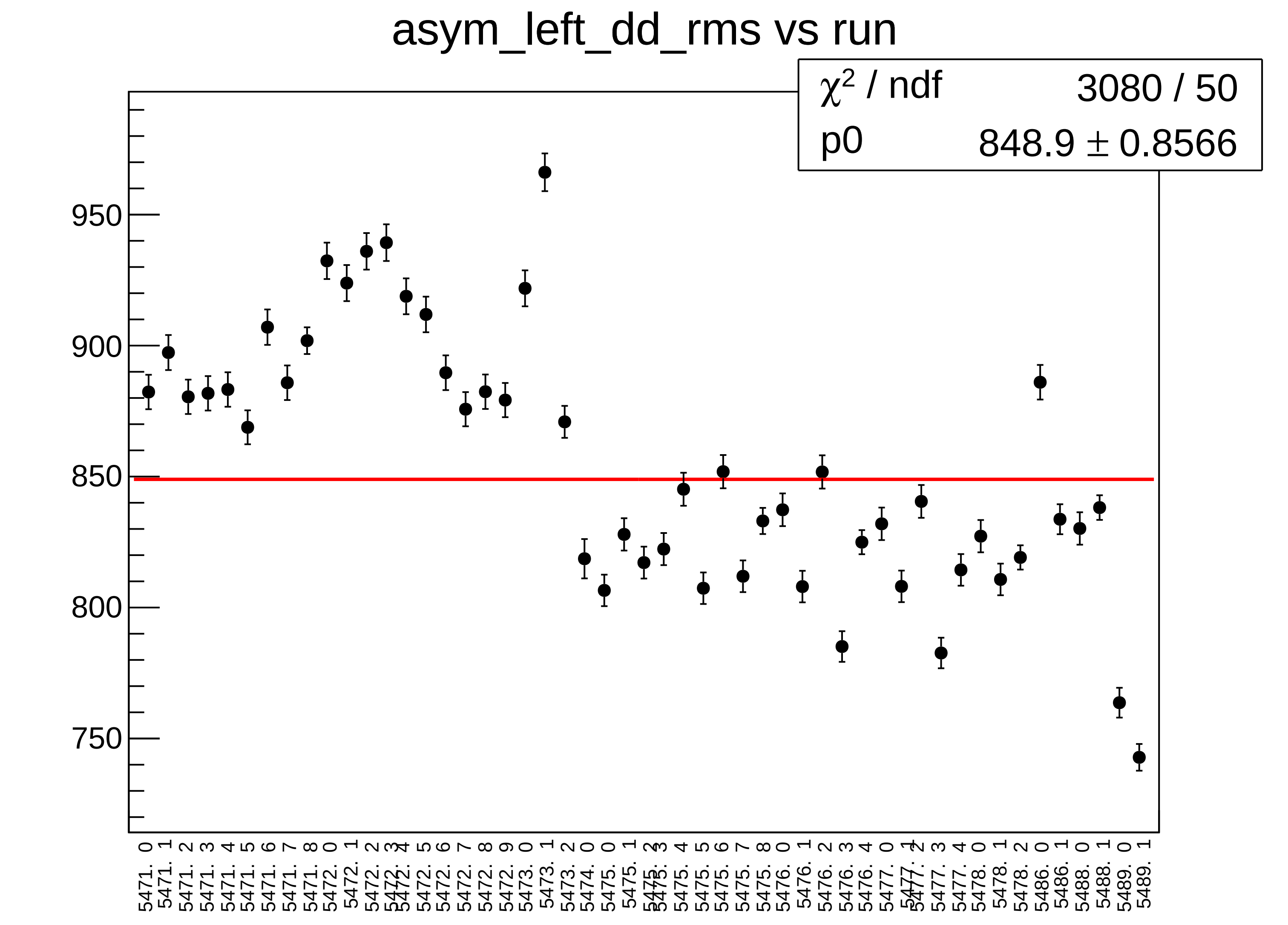


asym_left_dd_correction_mean vs run
χ2 / ndf 57.57 / 50
p0 −736 ± 929.2
pull
Entries 51
Mean 81.74
Std Dev 52.41
pull1D
Entries 51
Mean −0.0147
Std Dev 1.062

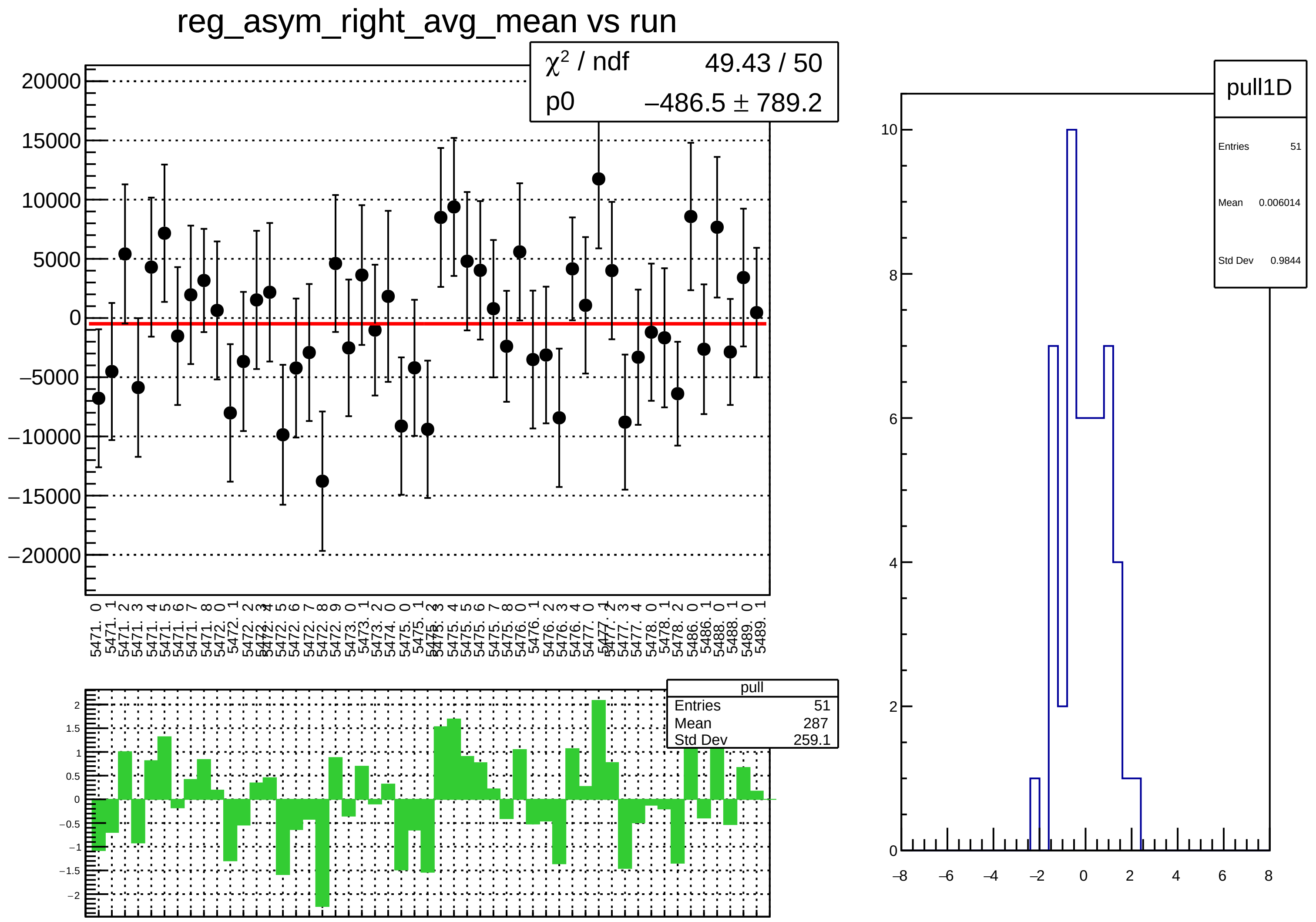

asym_left_dd_correction_rms vs run
χ² / ndf 9646 / 50
p0 649 ± 0.657
800
750
700
650
600
550
500
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1

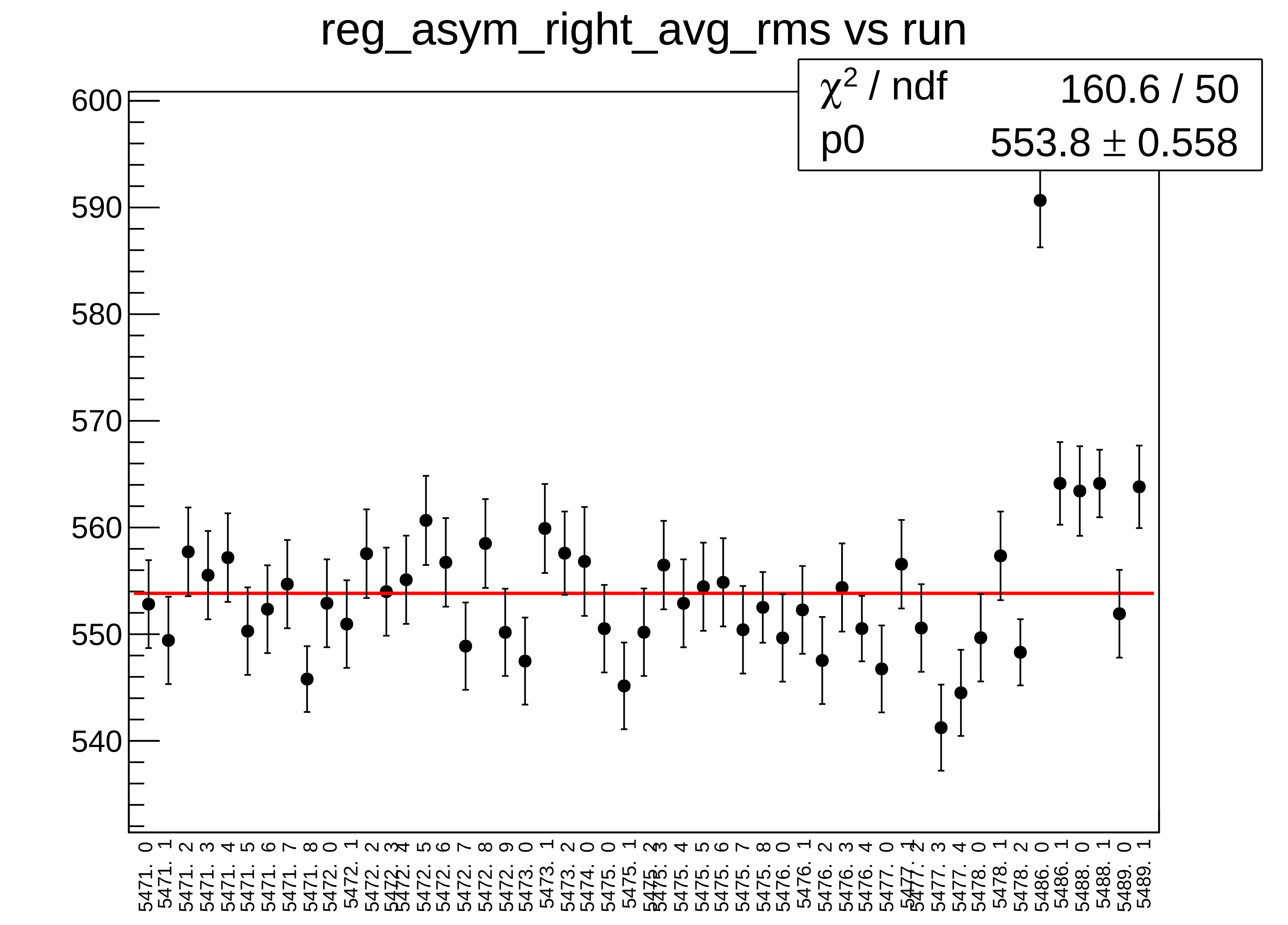


asym_left_dd_mean vs run
χ^2 / ndf 45.09 / 50
p0 −829.1 ± 1211
pull
Entries 51
Mean 104.1
Std Dev 84.25
pull1D
Entries 51
Mean 0.01079
Std Dev 0.9403

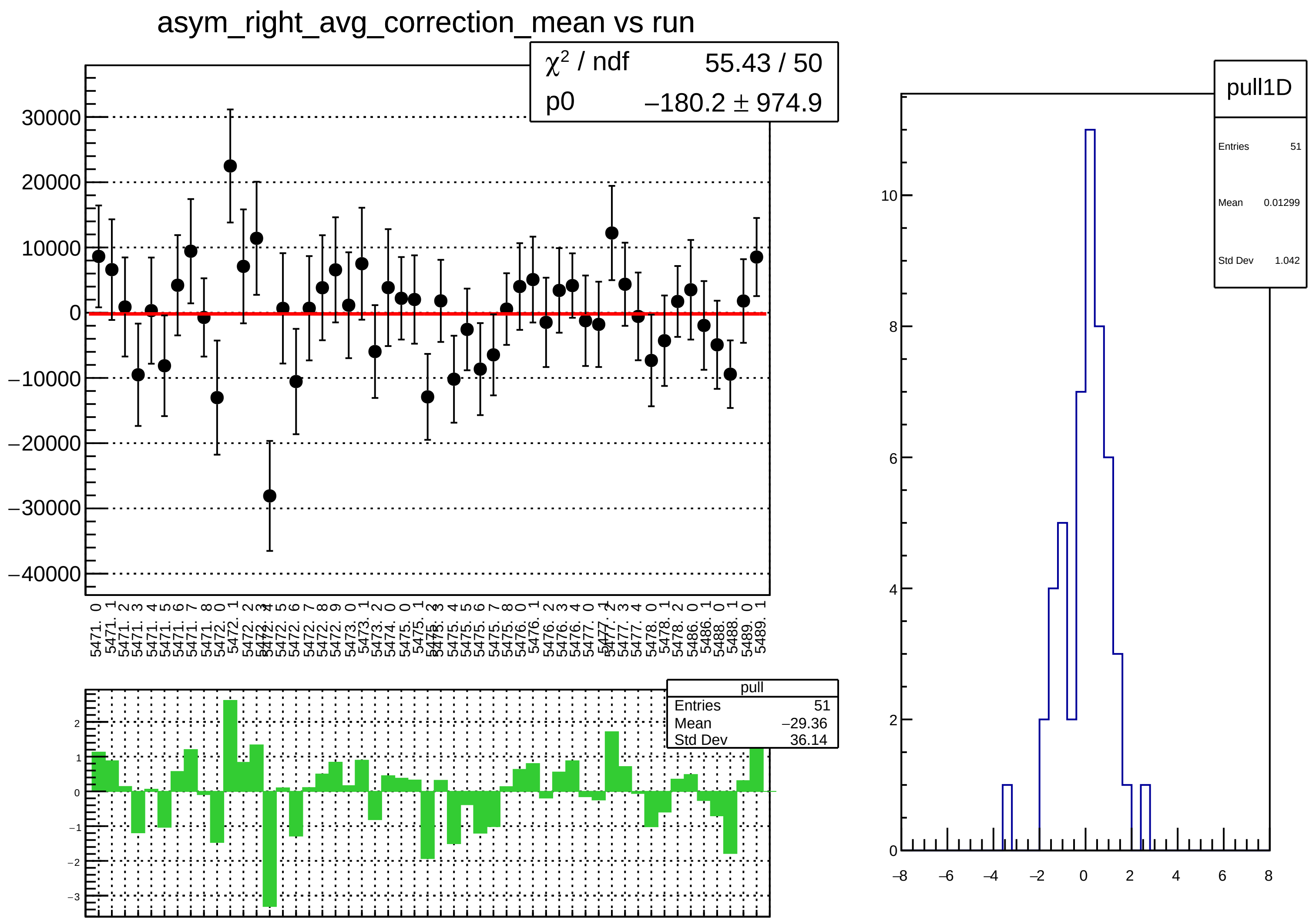


asym_left_dd_rms vs run
χ2 / ndf 3080 / 50
p0 848.9 ± 0.8566
950
900
850
800
750

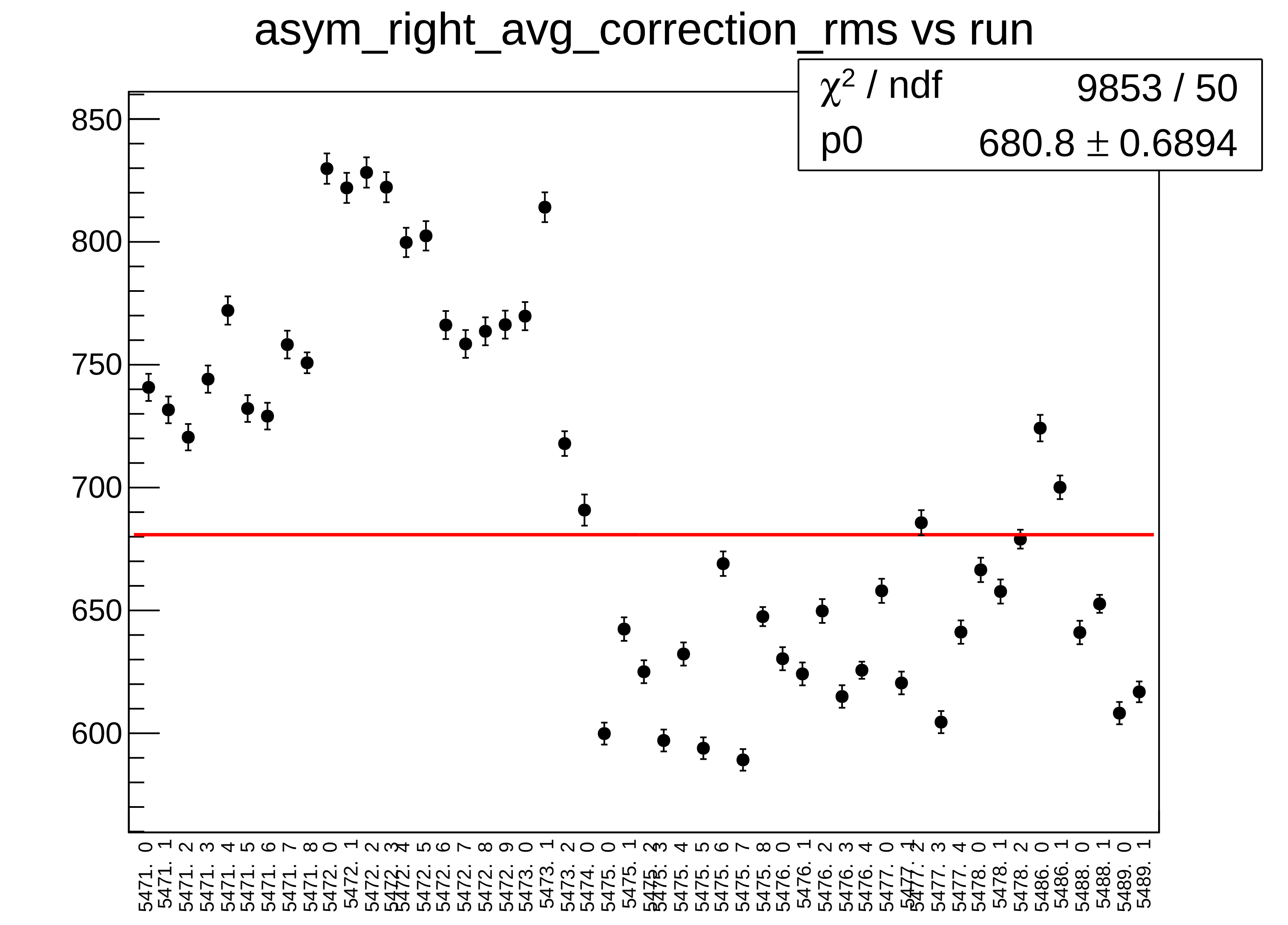

reg_asym_right_avg_mean vs run
χ2 / ndf 49.43 / 50
p0 −486.5 ± 789.2
pull
Entries 51
Mean 287
Std Dev 259.1
pull1D
Entries 51
Mean 0.006014
Std Dev 0.9844



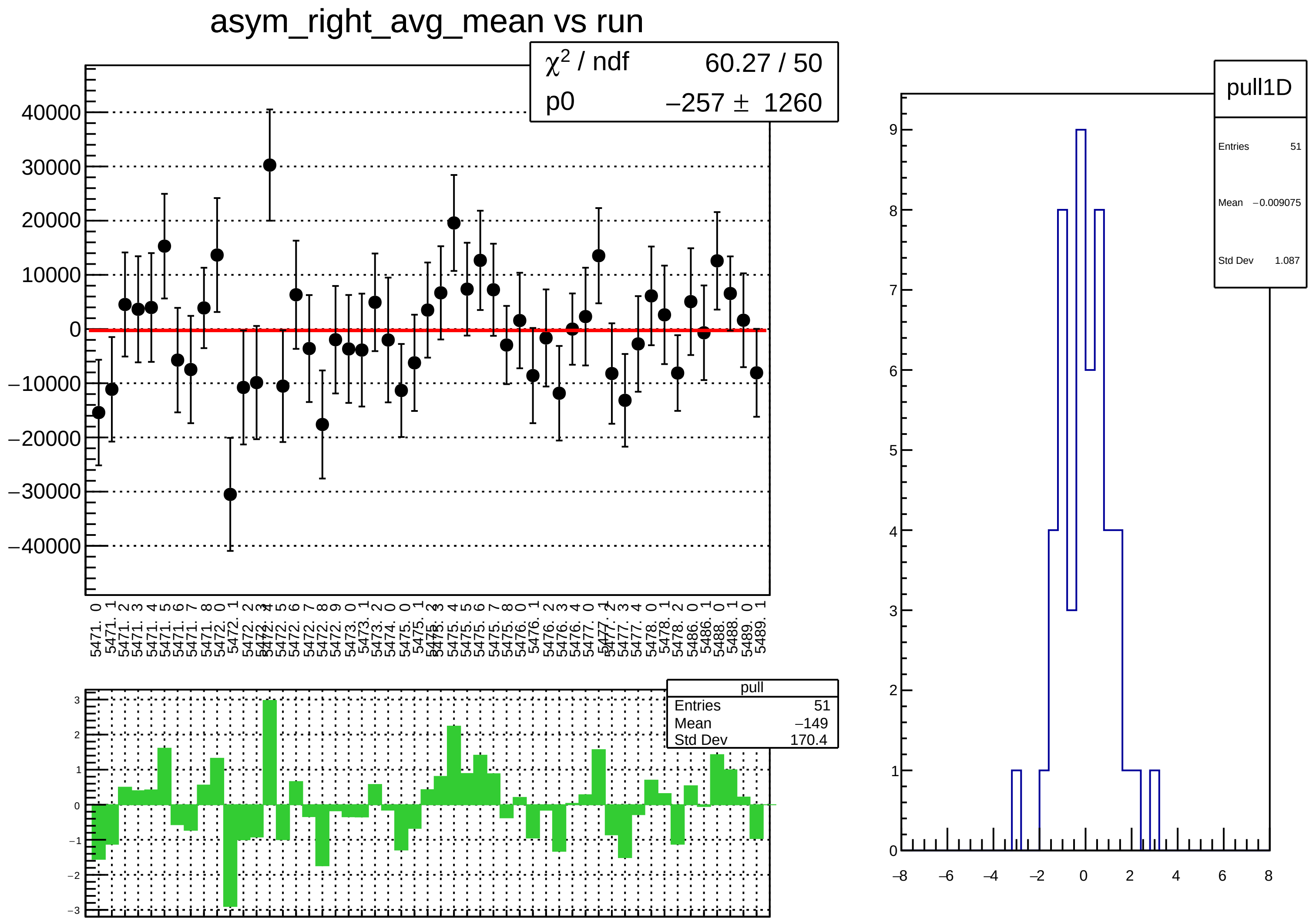
reg_asym_right_avg_rms vs run
χ^2 / ndf 160.6 / 50
p0 553.8 ± 0.558
600
590
580
570
560
550
540
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



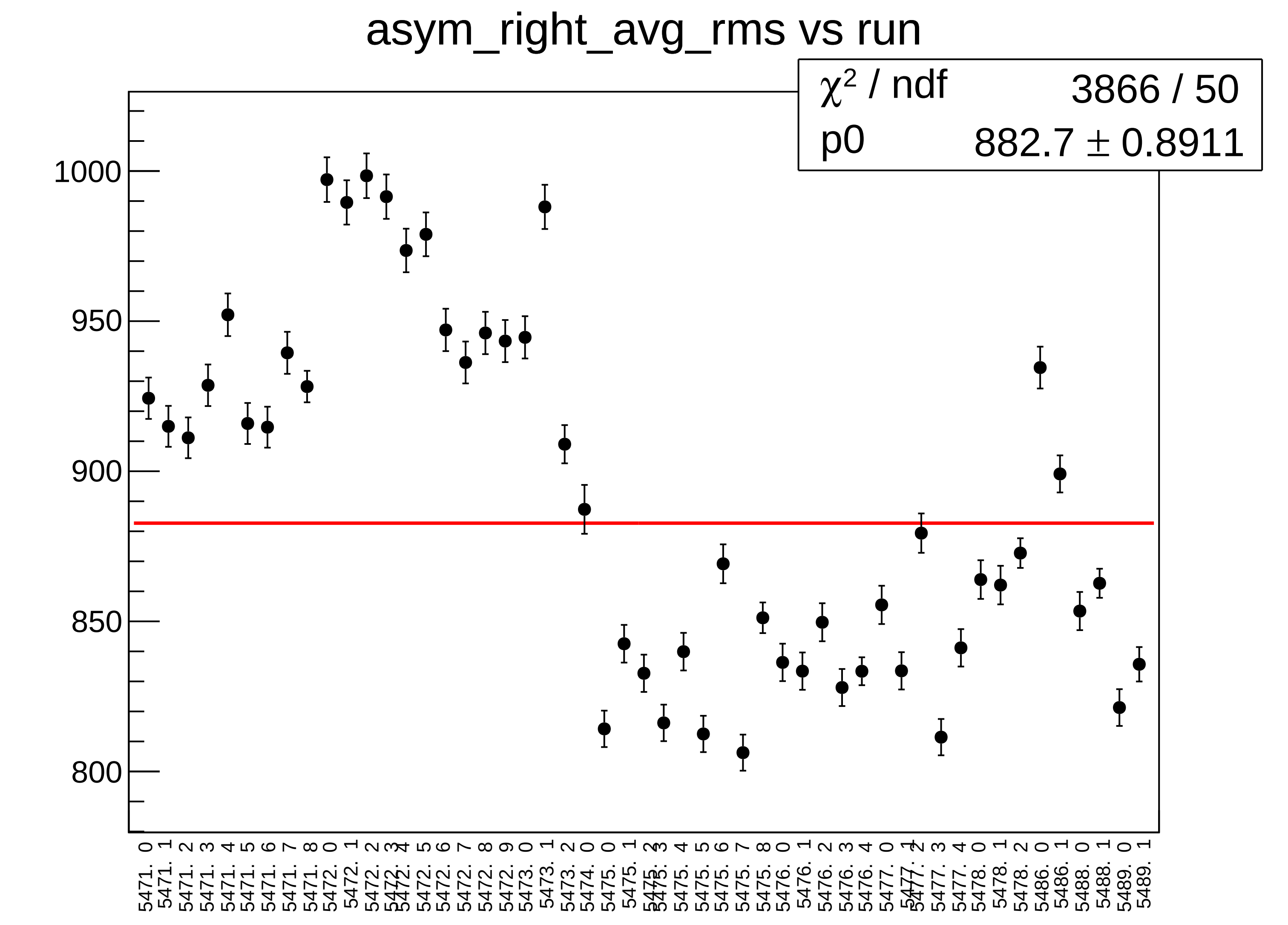
asym_right_avg_correction_mean vs run
χ^2 / ndf 55.43 / 50
p0 −180.2 ± 974.9
pull
Entries 51
Mean −29.36
Std Dev 36.14
pull1D
Entries 51
Mean 0.01299
Std Dev 1.042

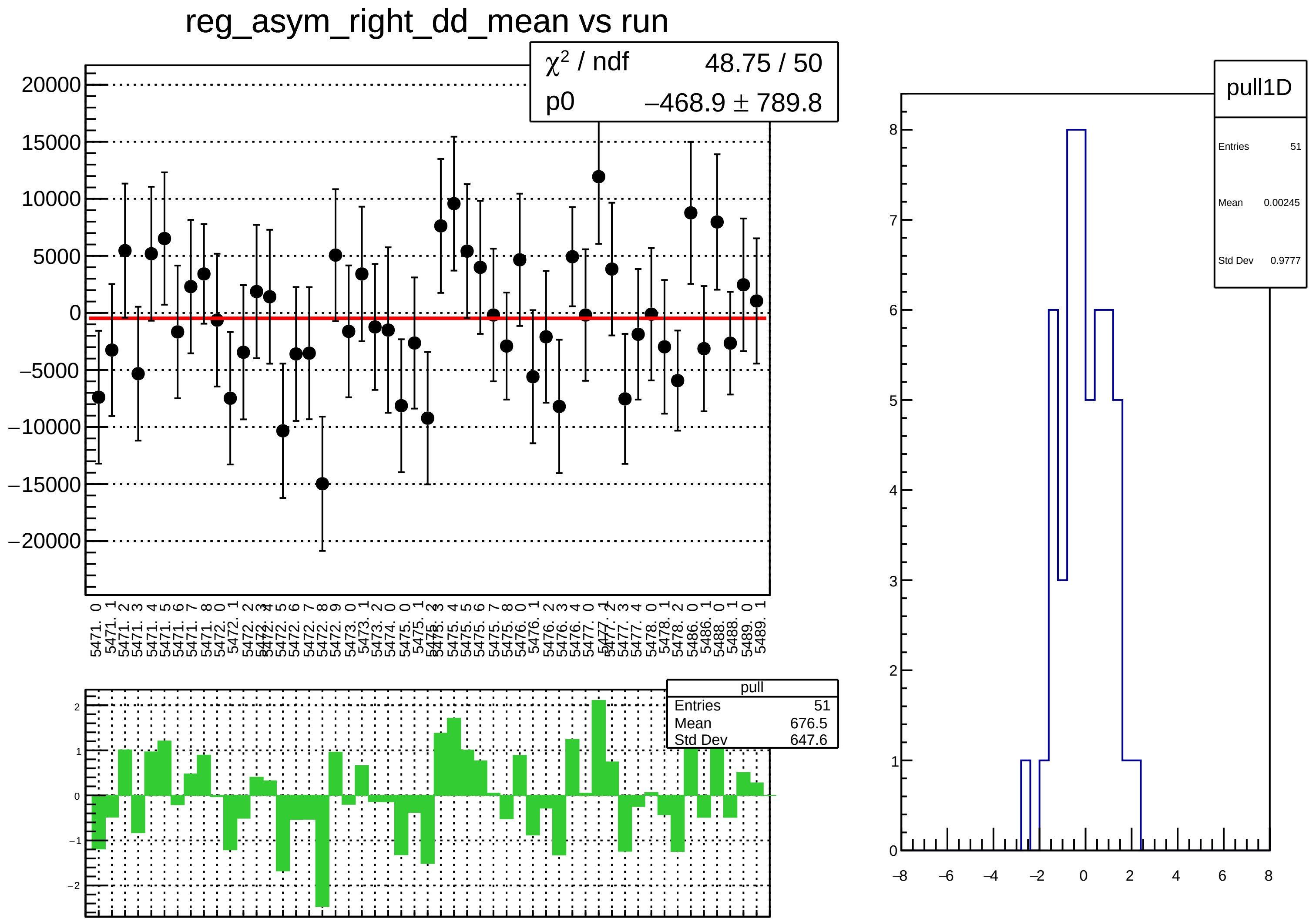


asym_right_avg_correction_rms vs run
χ2 / ndf 9853 / 50
p0 680.8 ± 0.6894
850
800
750
700
650
600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

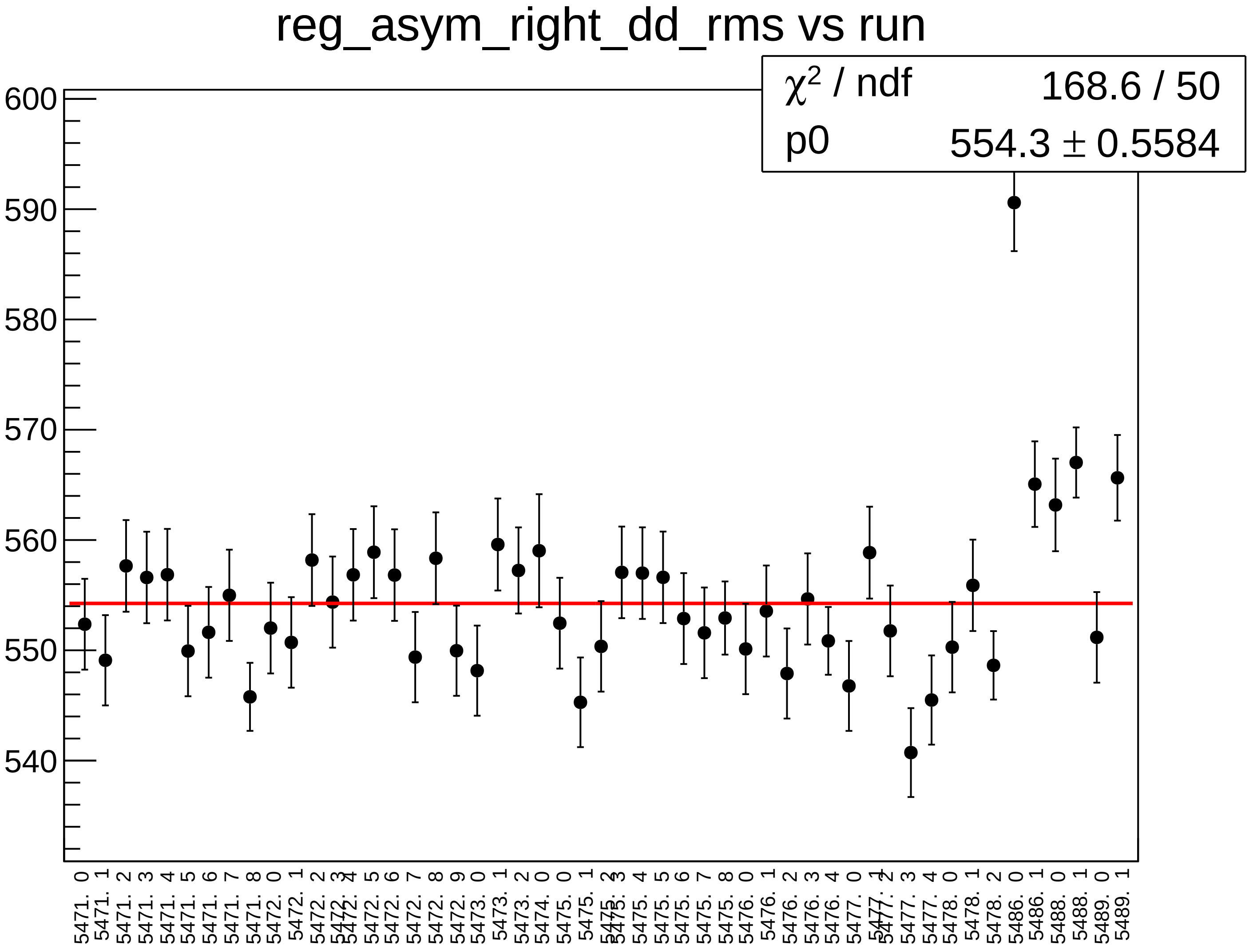


asym_right_avg_mean vs run
χ2 / ndf 60.27 / 50
p0 −257 ± 1260
pull
Entries 51
Mean −149
Std Dev 170.4
pull1D
Entries 51
Mean −0.009075
Std Dev 1.087


asym_right_avg_rms vs run
χ^2 / ndf 3866 / 50
p0 882.7 ± 0.8911
1000
950
900
850
800

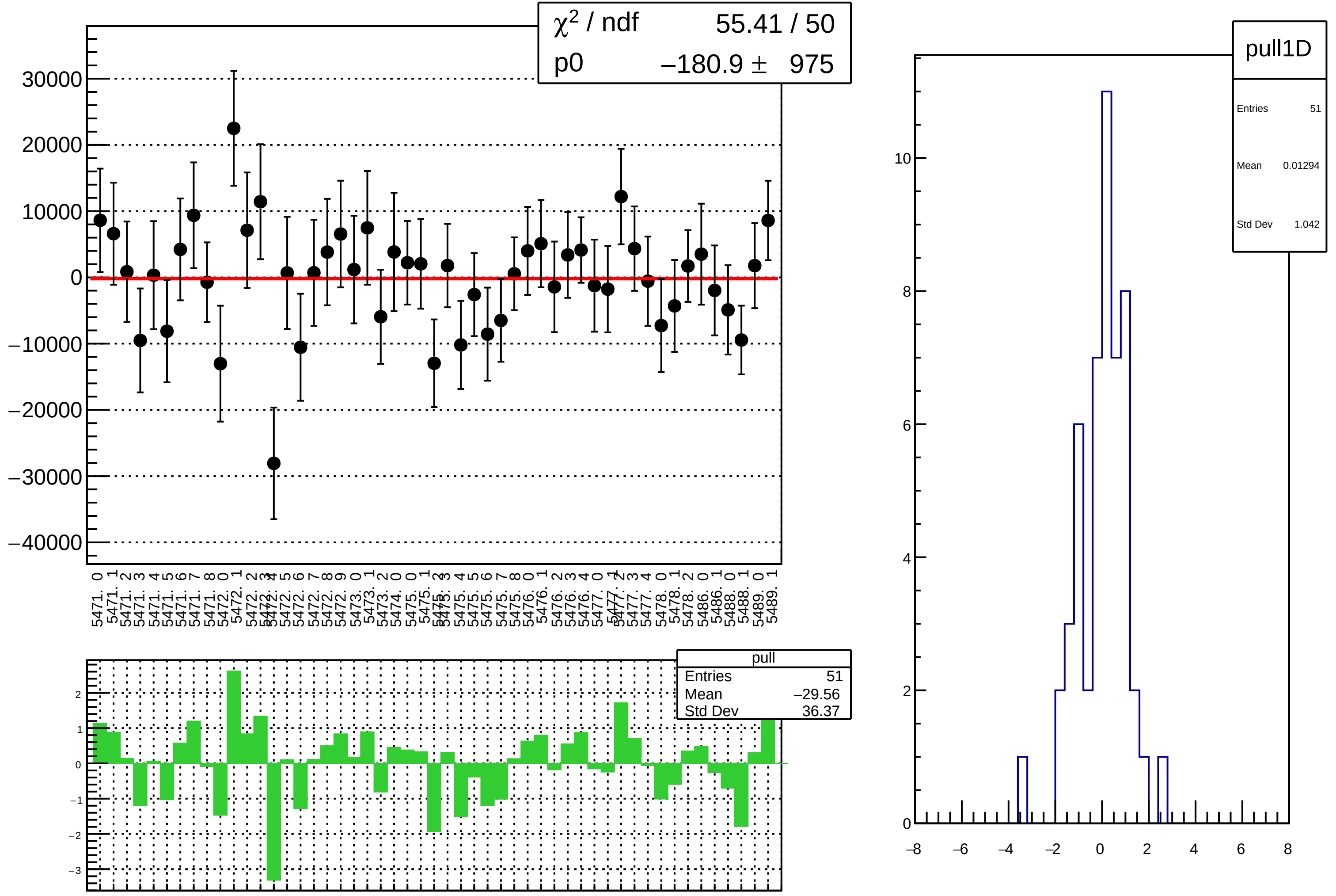


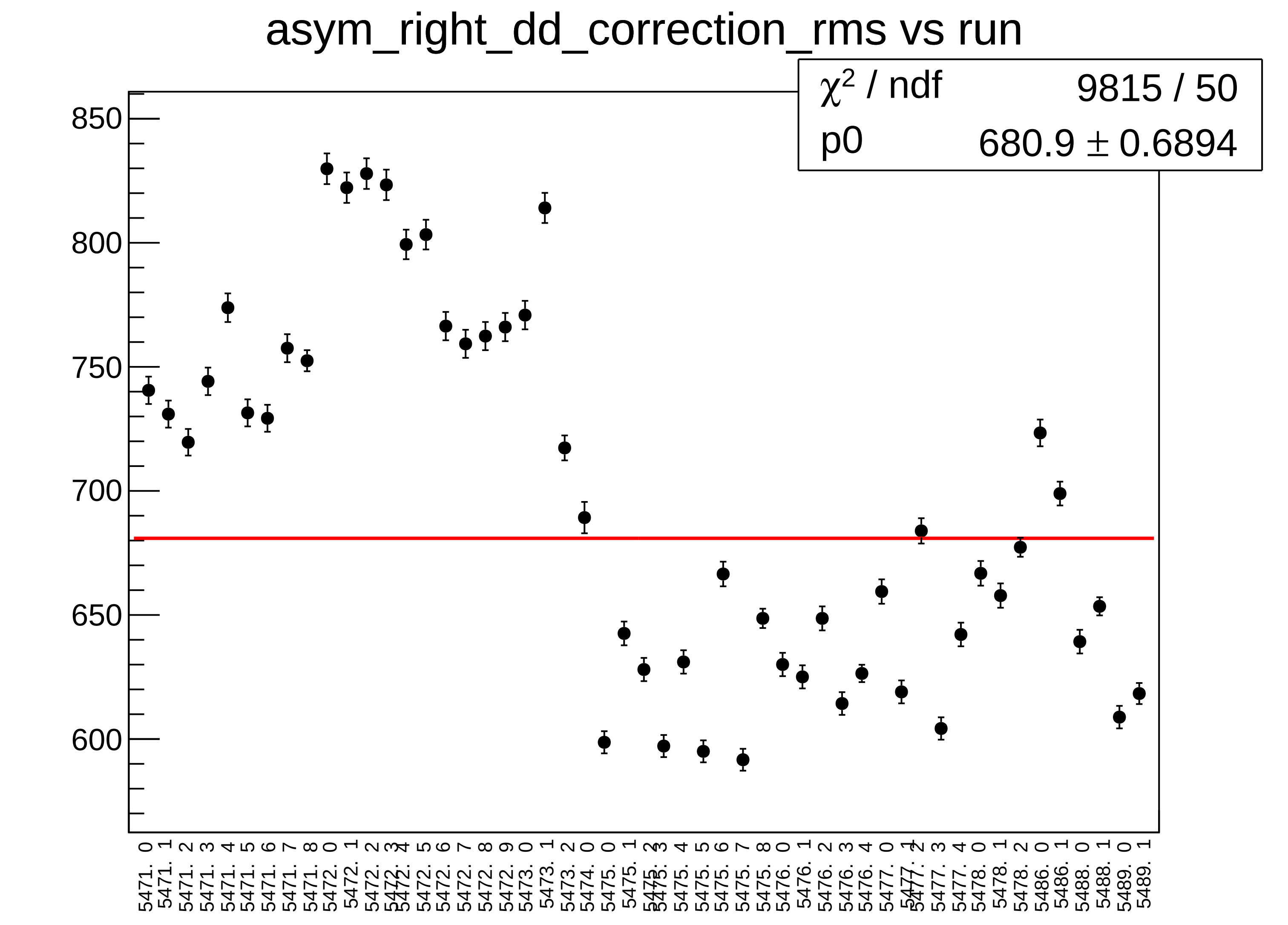
reg_asym_right_dd_mean vs run
χ2 / ndf 48.75 / 50
p0 −468.9 ± 789.8
pull
Entries 51
Mean 676.5
Std Dev 647.6
pull1D
Entries 51
Mean 0.00245
Std Dev 0.9777



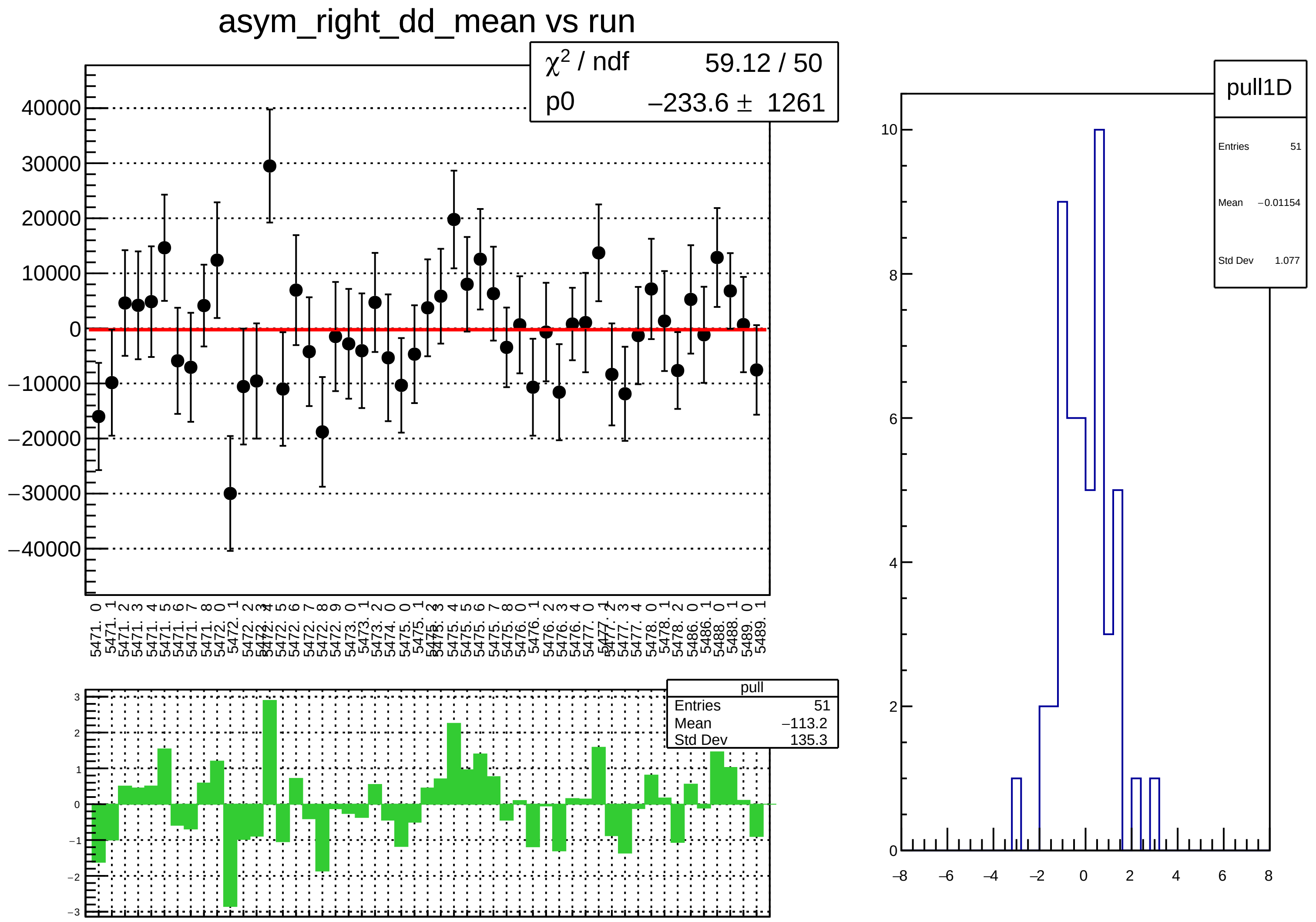
reg_asym_right_dd_rms vs run
χ^2 / ndf 168.6 / 50
p0 554.3 ± 0.5584
600
590
580
570
560
550
540

asym_right_dd_correction_mean vs run

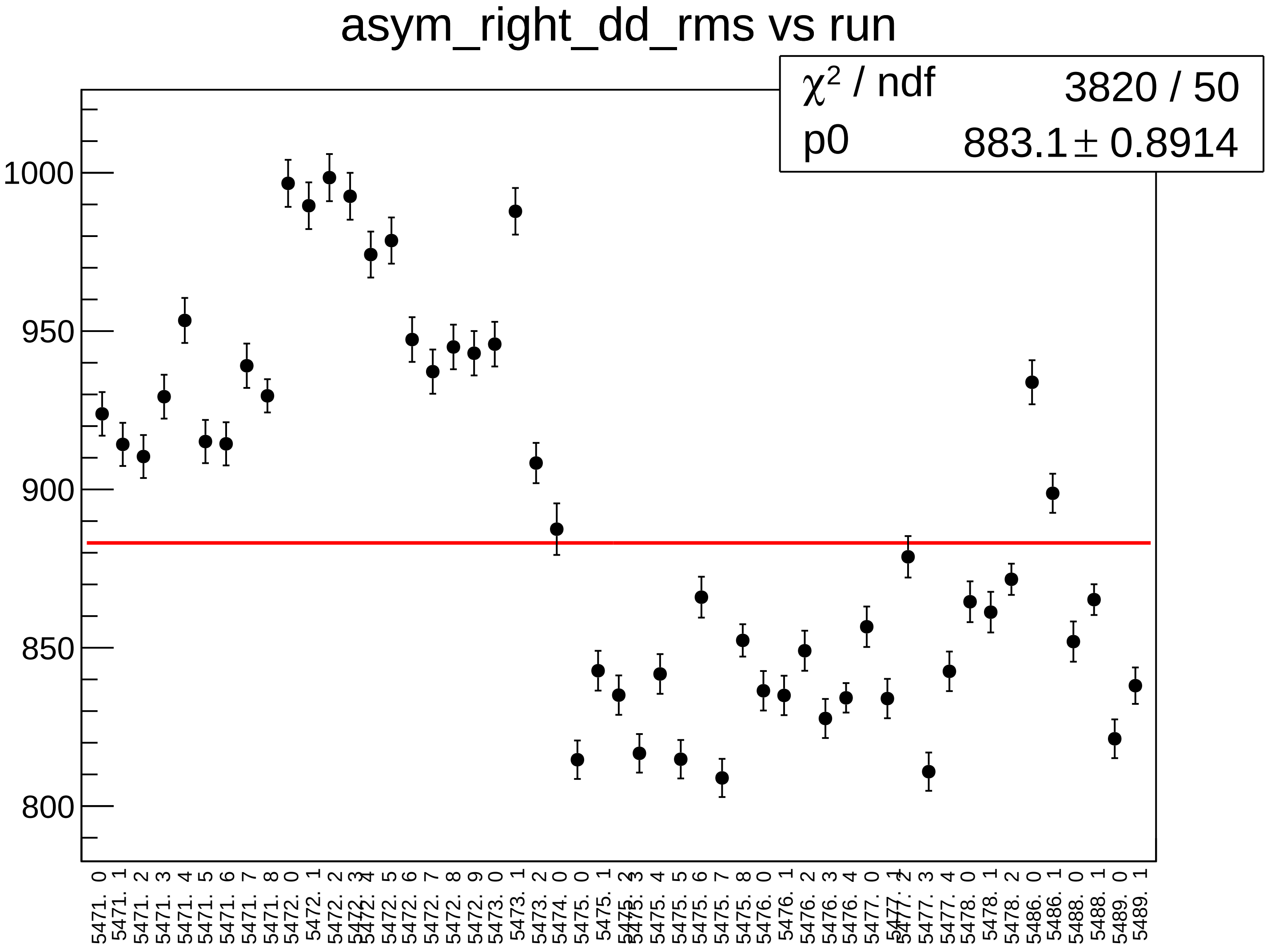




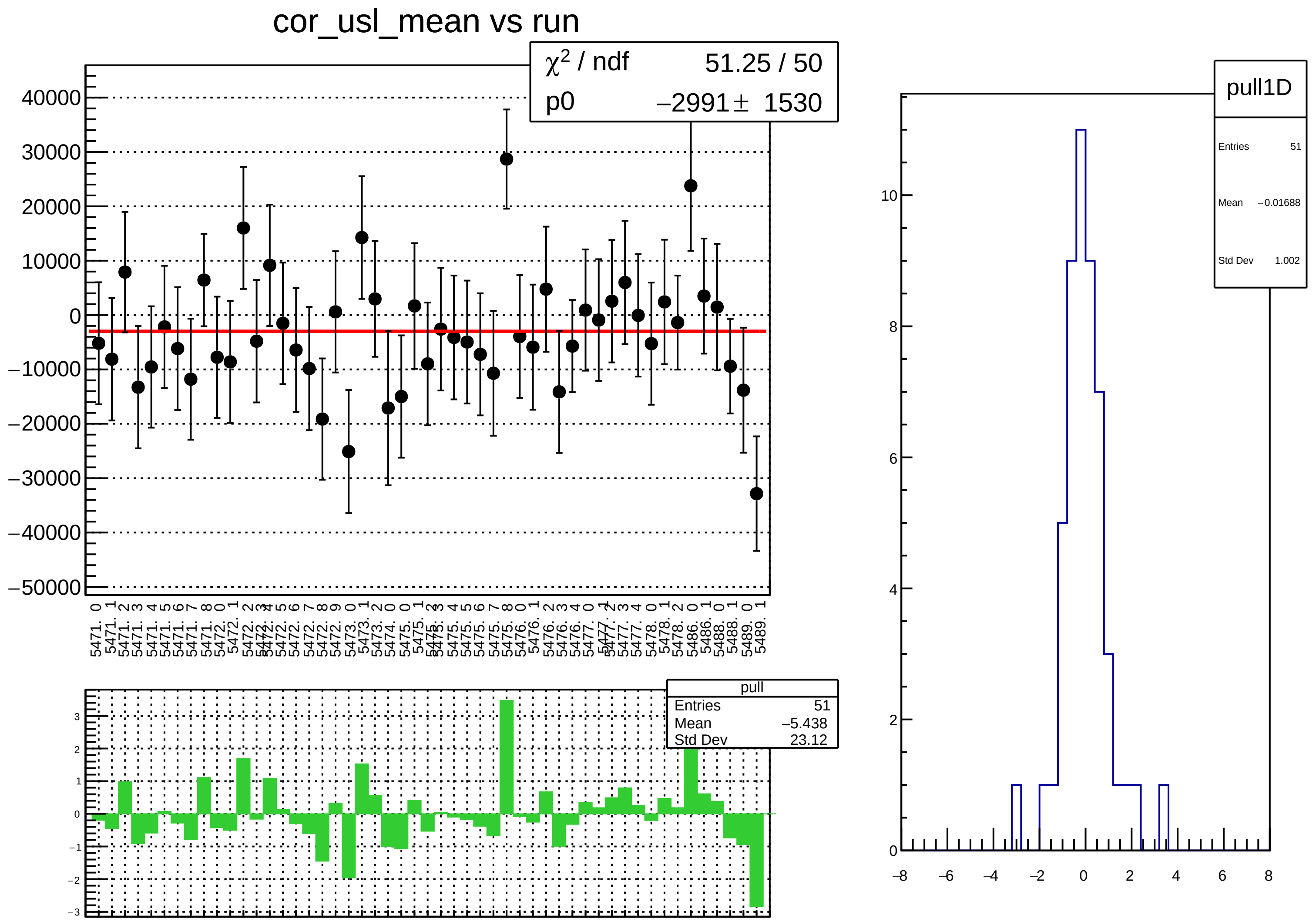
asym_right_dd_correction_rms vs run
χ2 / ndf 9815 / 50
p0 680.9 ± 0.6894
850
800
750
700
650
600



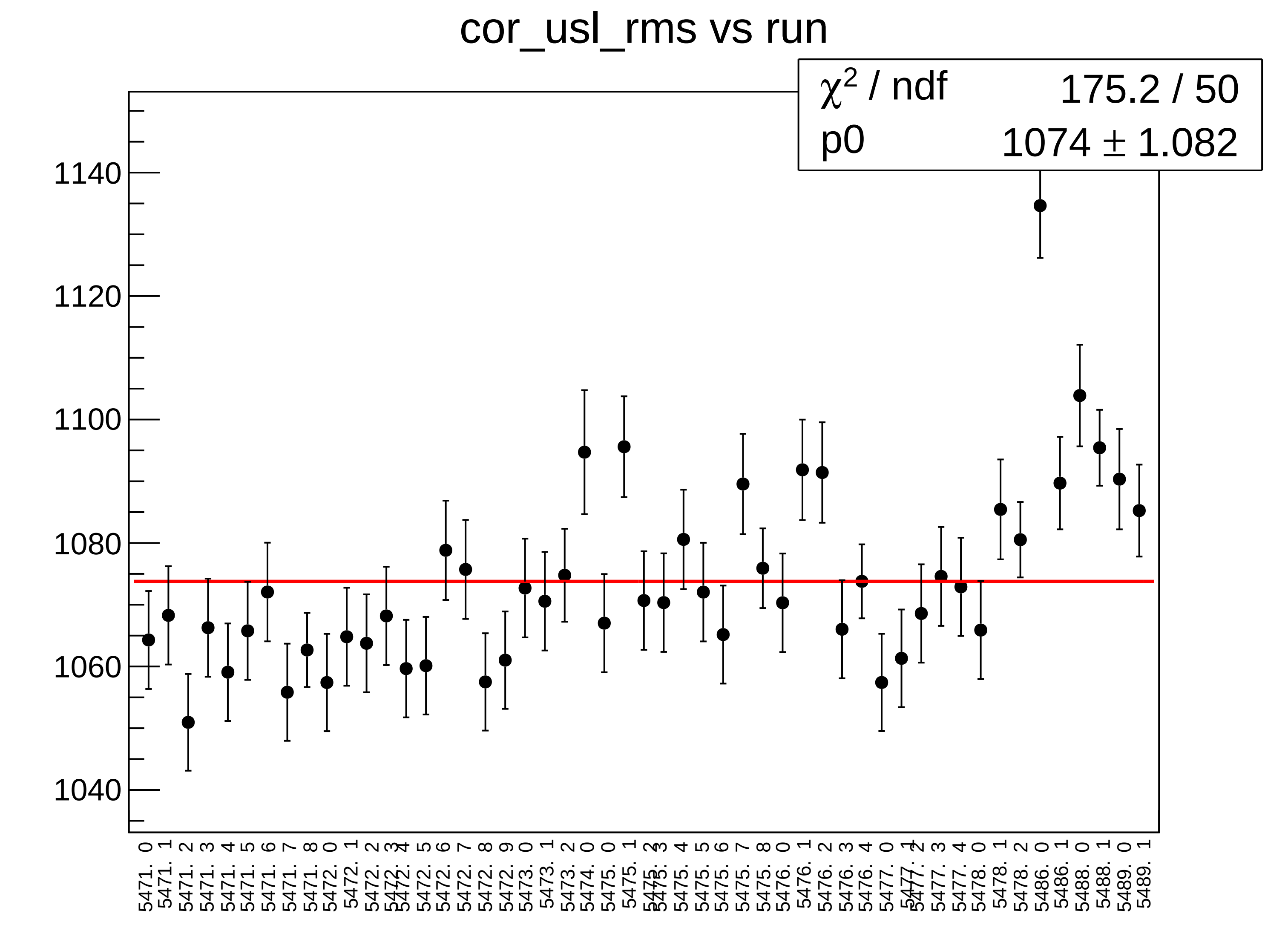
asym_right_dd_mean vs run
χ2 / ndf 59.12 / 50
p0 −233.6 ± 1261
pull
Entries 51
Mean −113.2
Std Dev 135.3
pull1D
Entries 51
Mean −0.01154
Std Dev 1.077



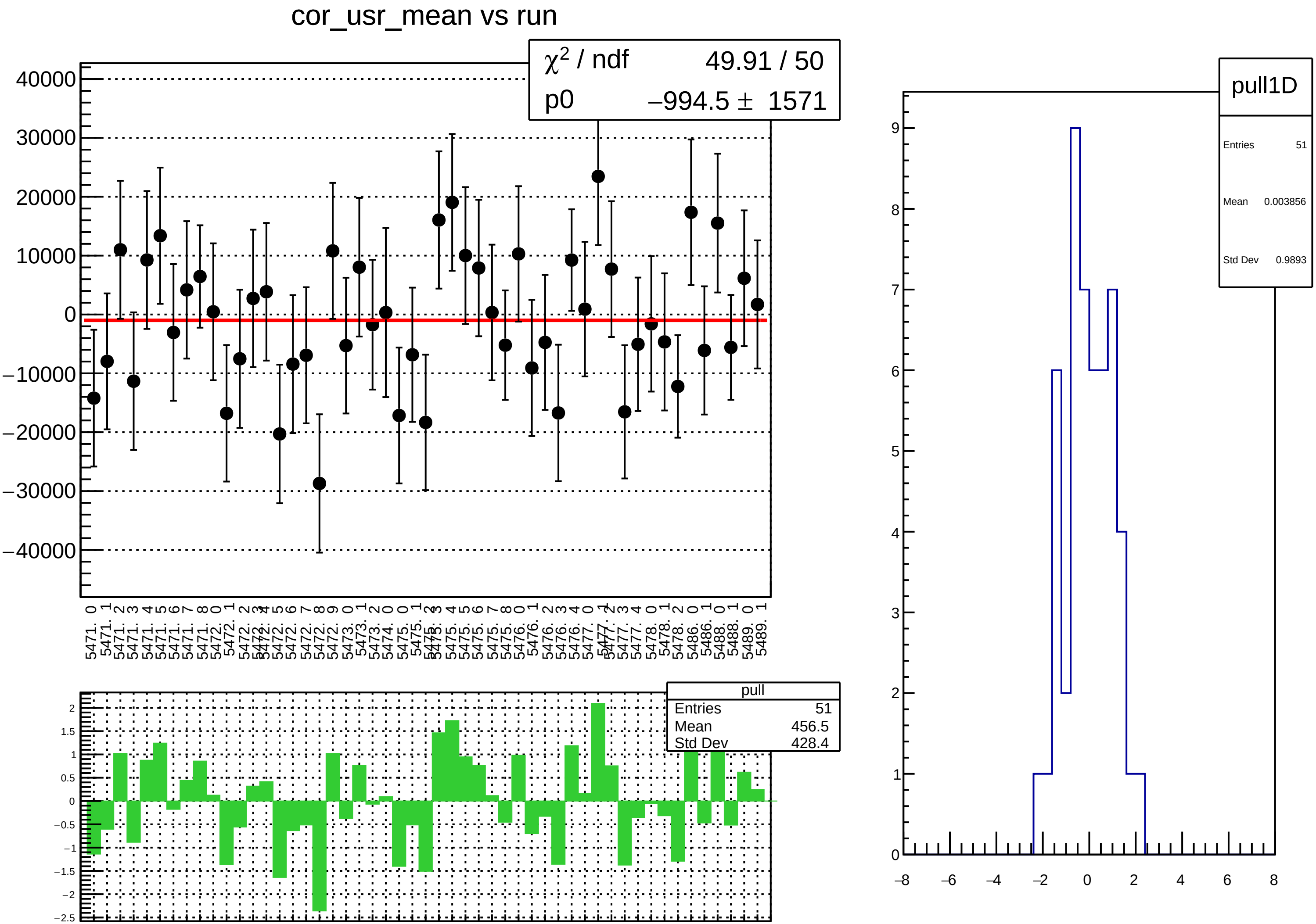
asym_right_dd_rms vs run
χ^2 / ndf 3820 / 50
p0 883.1 ± 0.8914
1000
950
900
850
800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

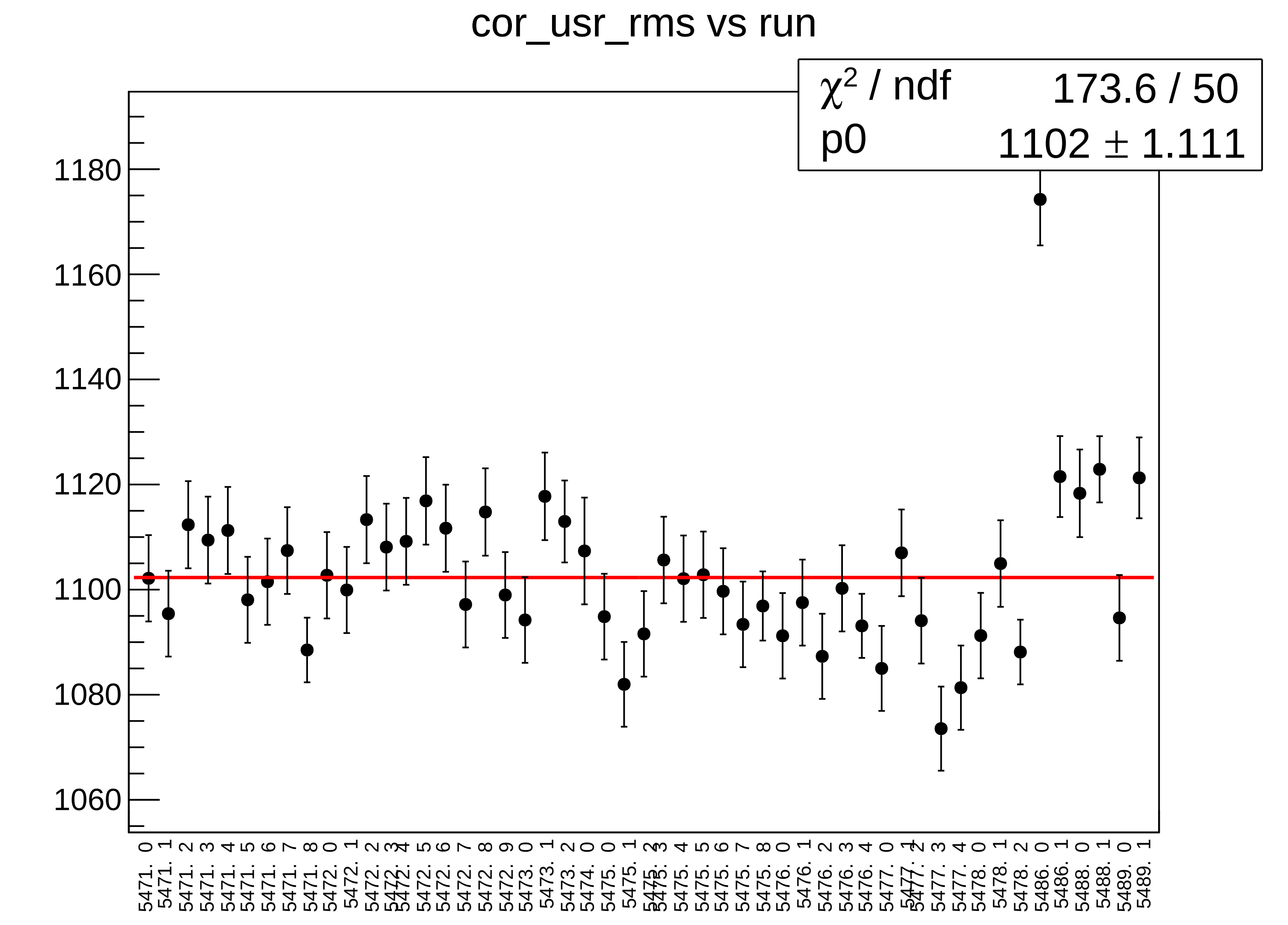


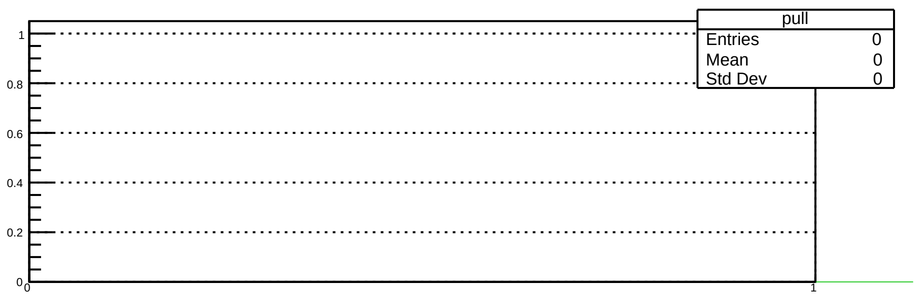
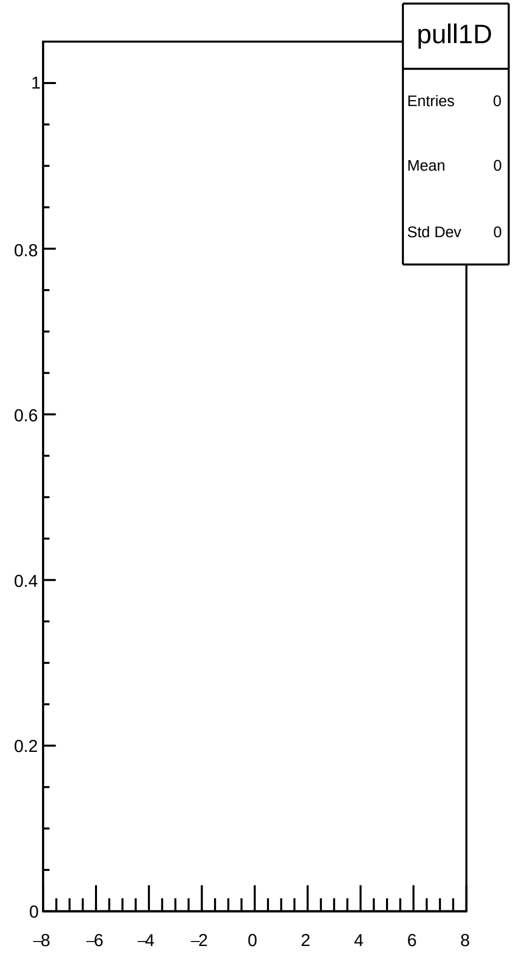
cor_usl_mean vs run
χ^2 / ndf 51.25 / 50
p0 −2991 ± 1530
pull
Entries 51
Mean −5.438
Std Dev 23.12
pull1D
Entries 51
Mean −0.01688
Std Dev 1.002

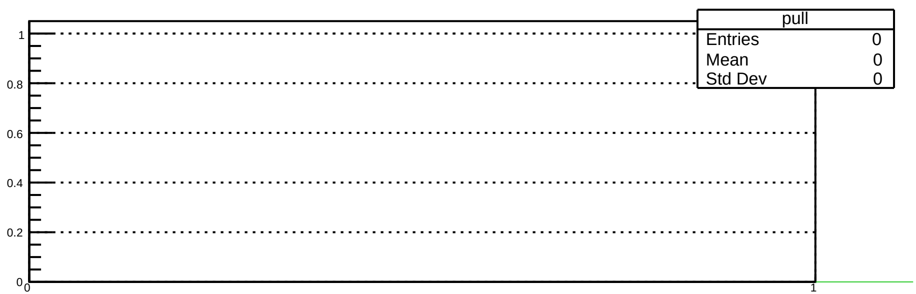


cor_usl_rms vs run
χ^2 / ndf 175.2 / 50
p0 1074 ± 1.082
1040
1060
1080
1100
1120
1140

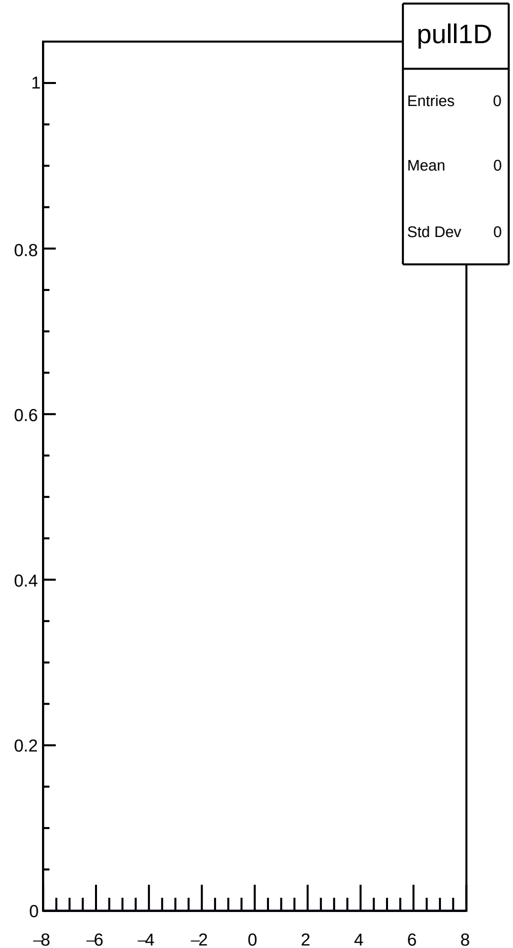

cor_usr_mean vs run
χ^2 / ndf 49.91 / 50
p0 −994.5 ± 1571
pull
Entries 51
Mean 456.5
Std Dev 428.4
pull1D
Entries 51
Mean 0.003856
Std Dev 0.9893


cor_usr_rms vs run
χ2 / ndf 173.6 / 50
p0 1102 ± 1.111
1060
1080
1100
1120
1140
1160
1180

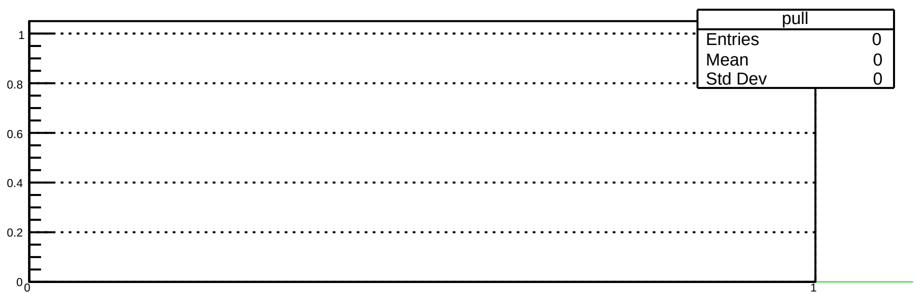

pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

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

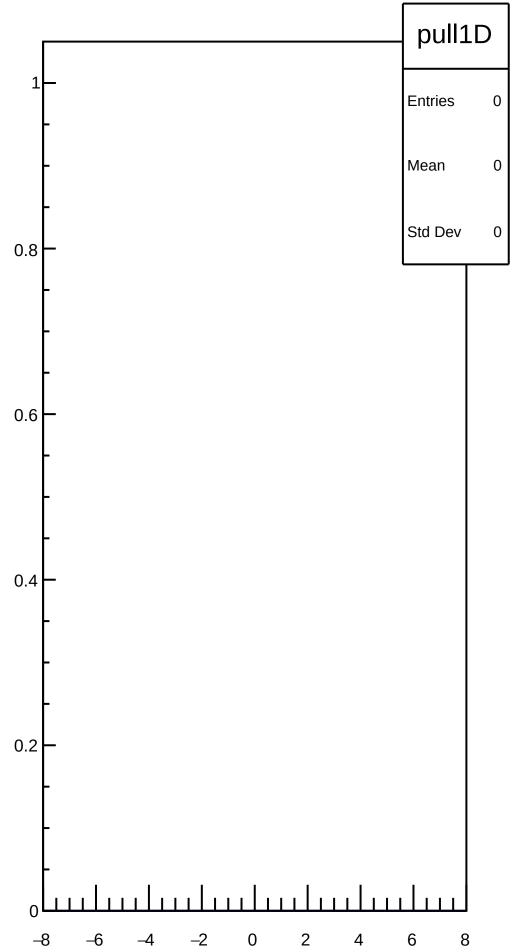


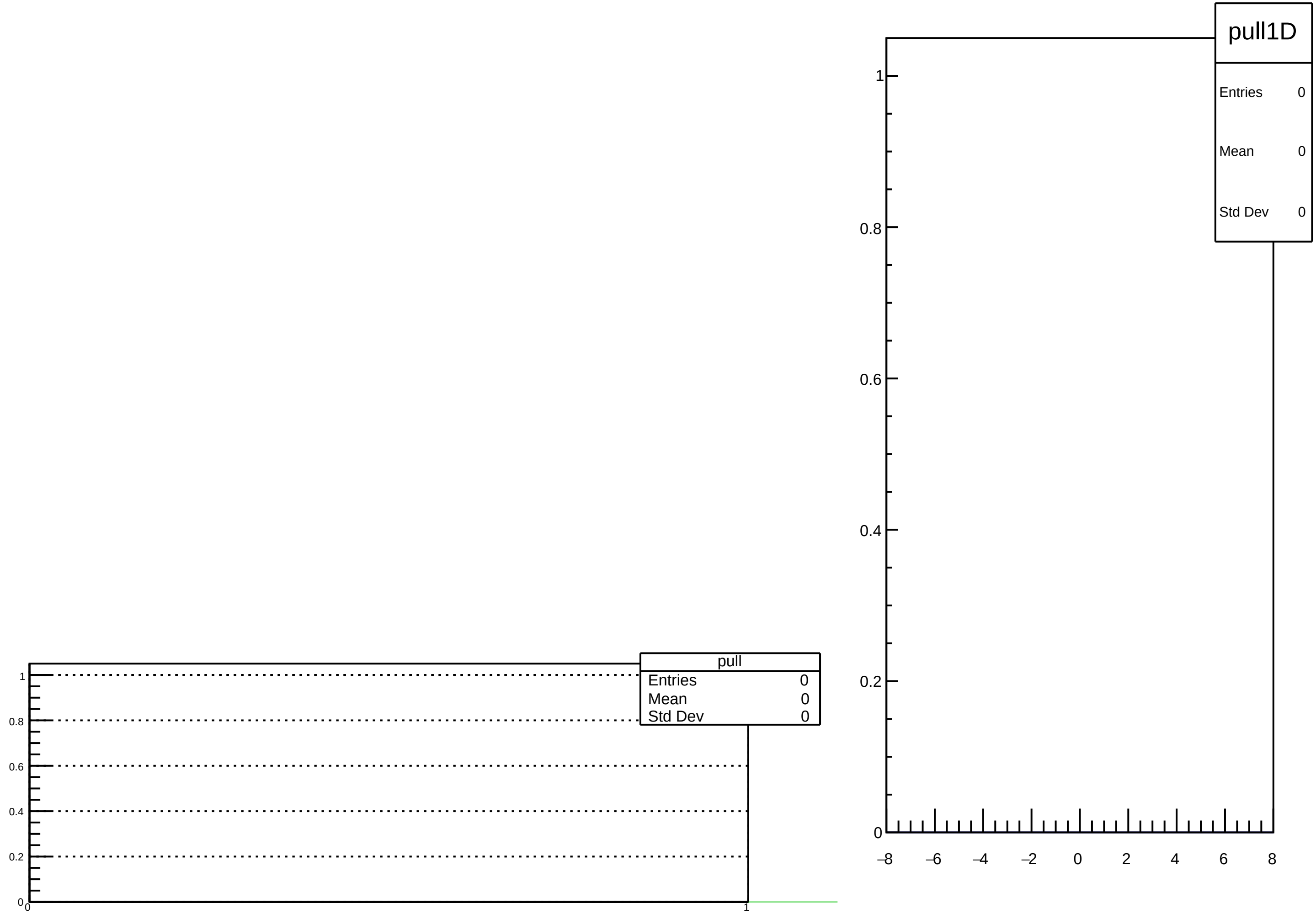
pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

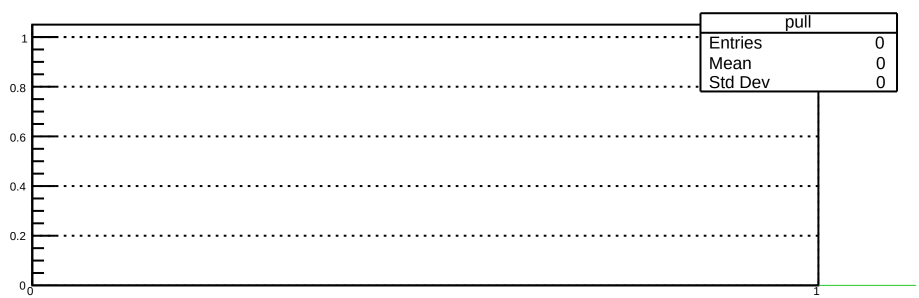


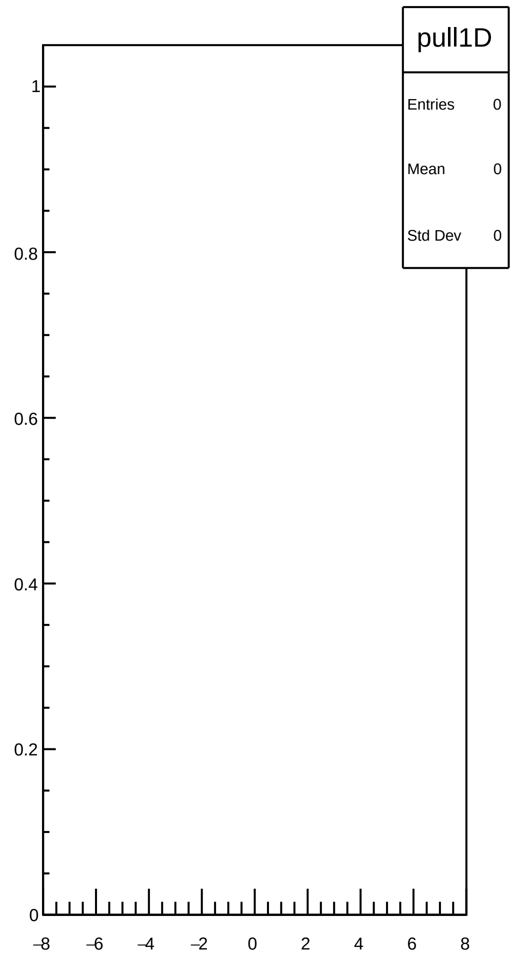
pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8

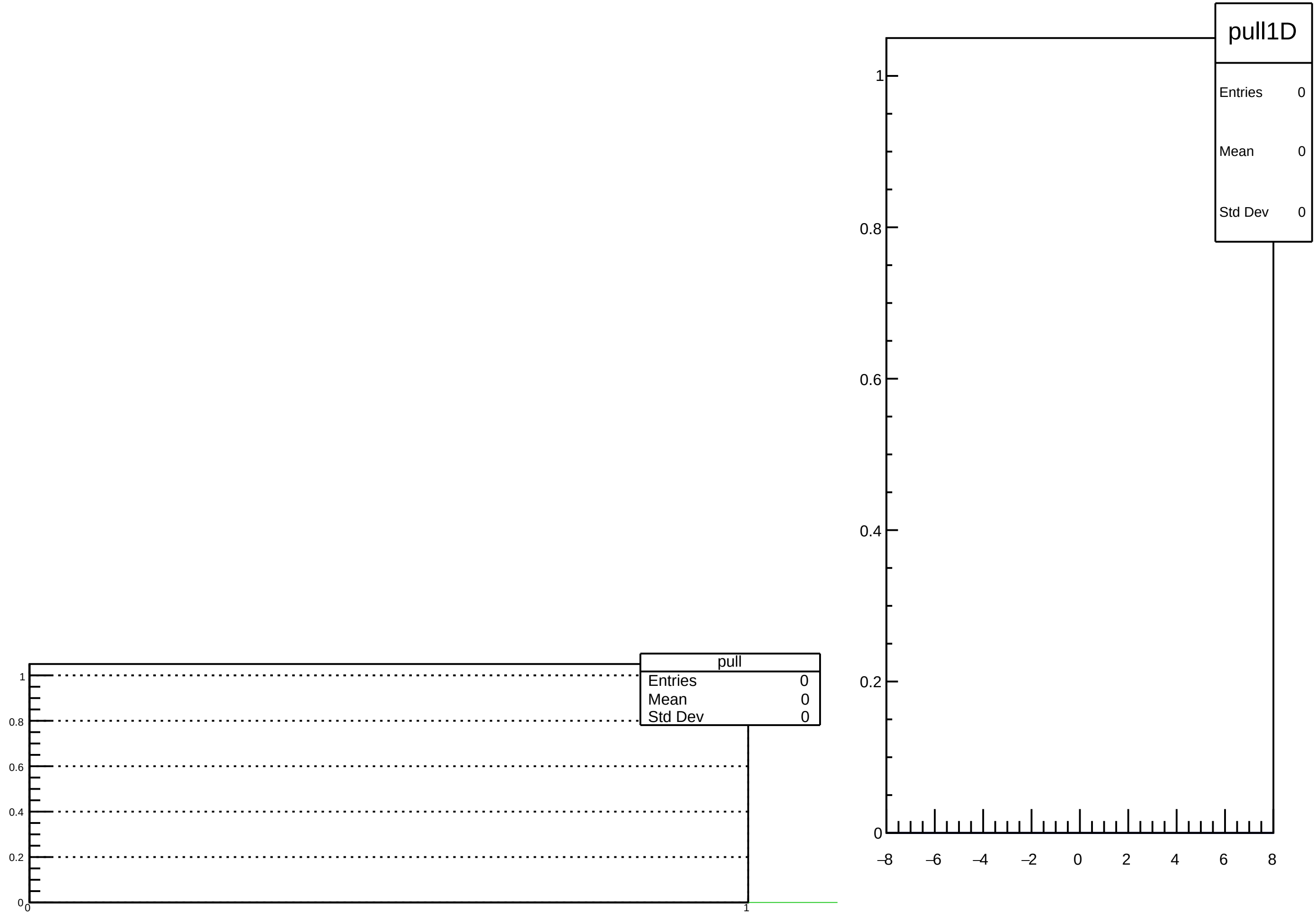

pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1


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

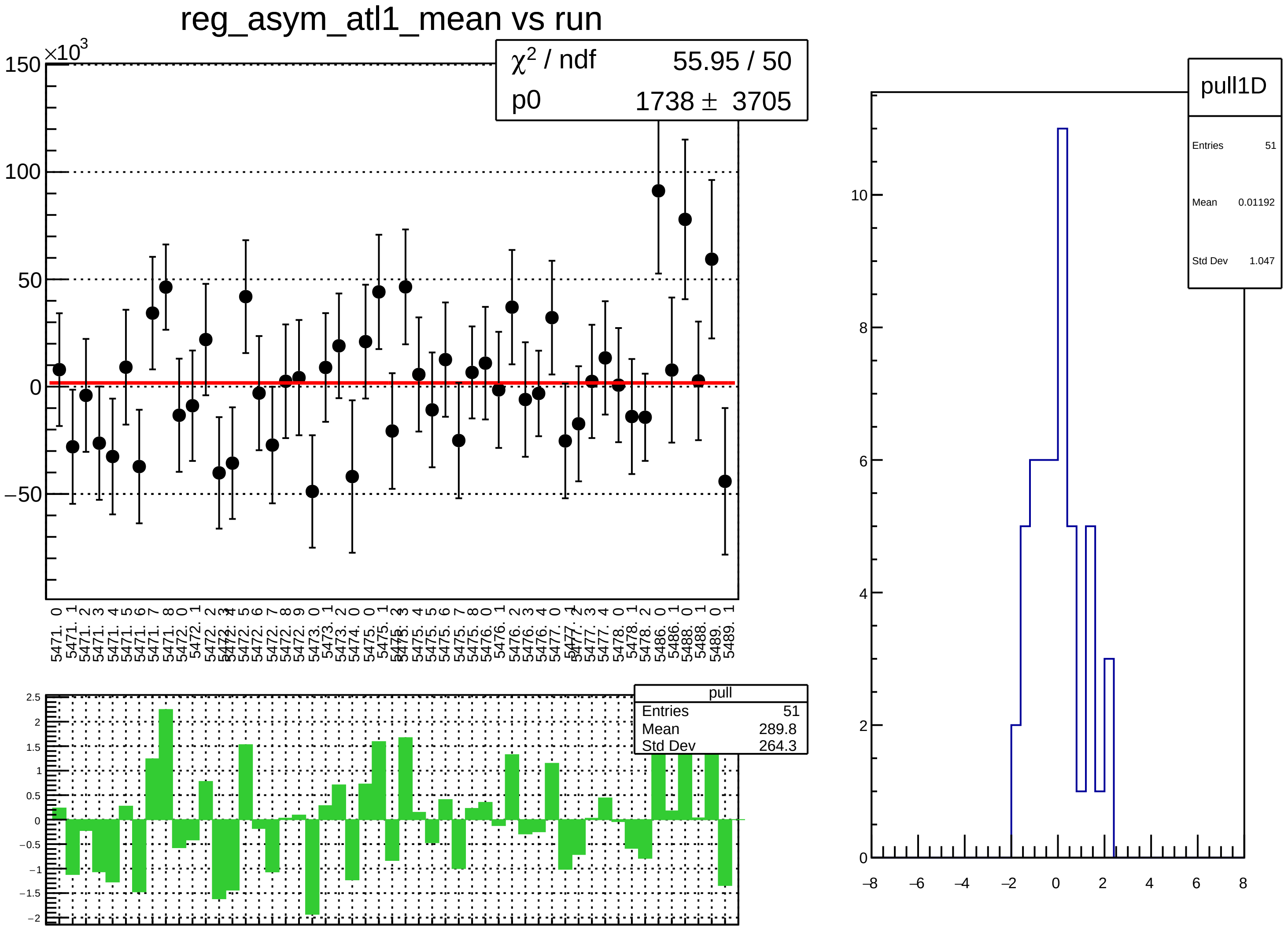

pull
Entries 0
Mean 0
Std Dev 0
pull1D
Entries 0
Mean 0
Std Dev 0


pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

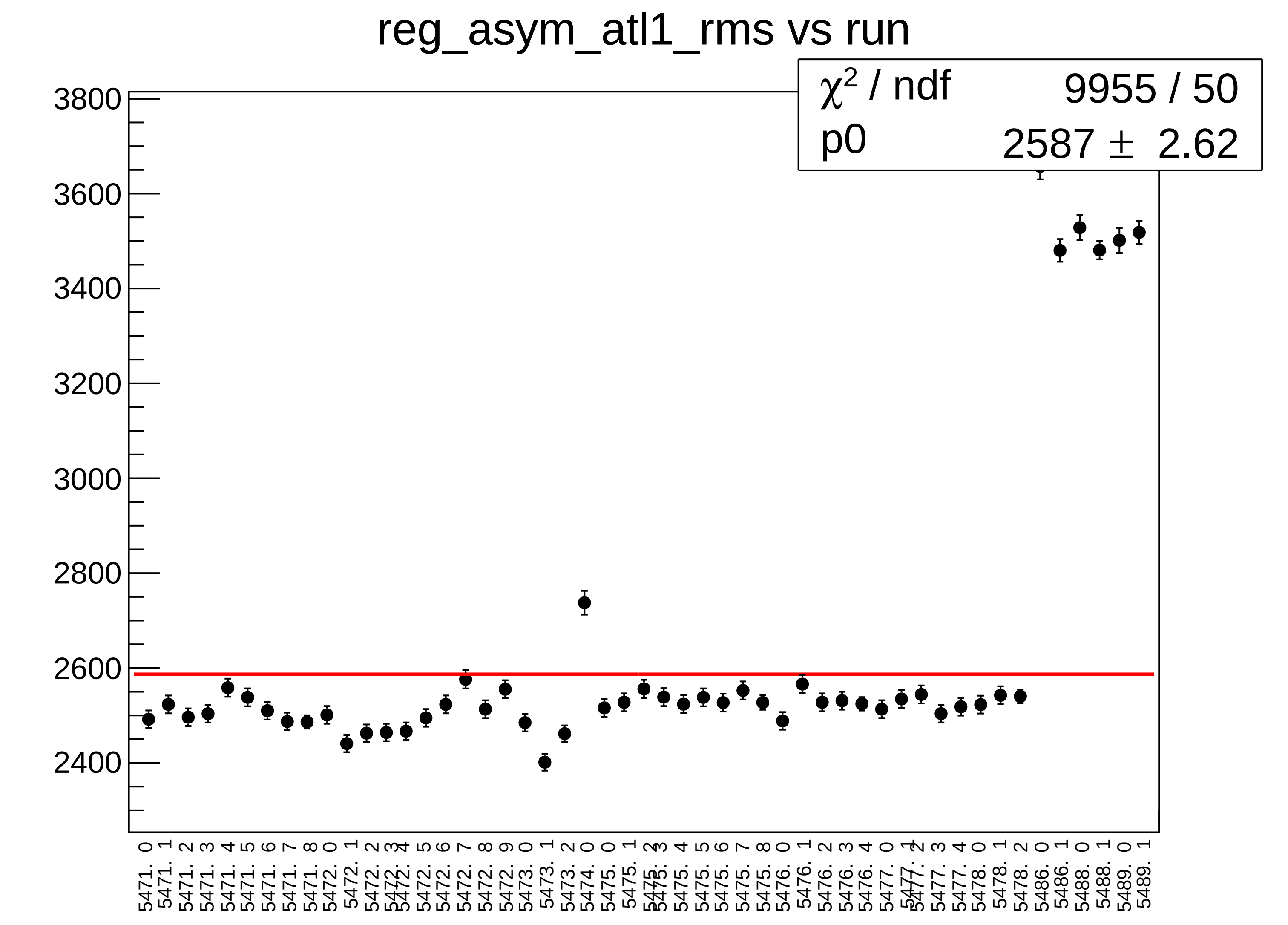

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8



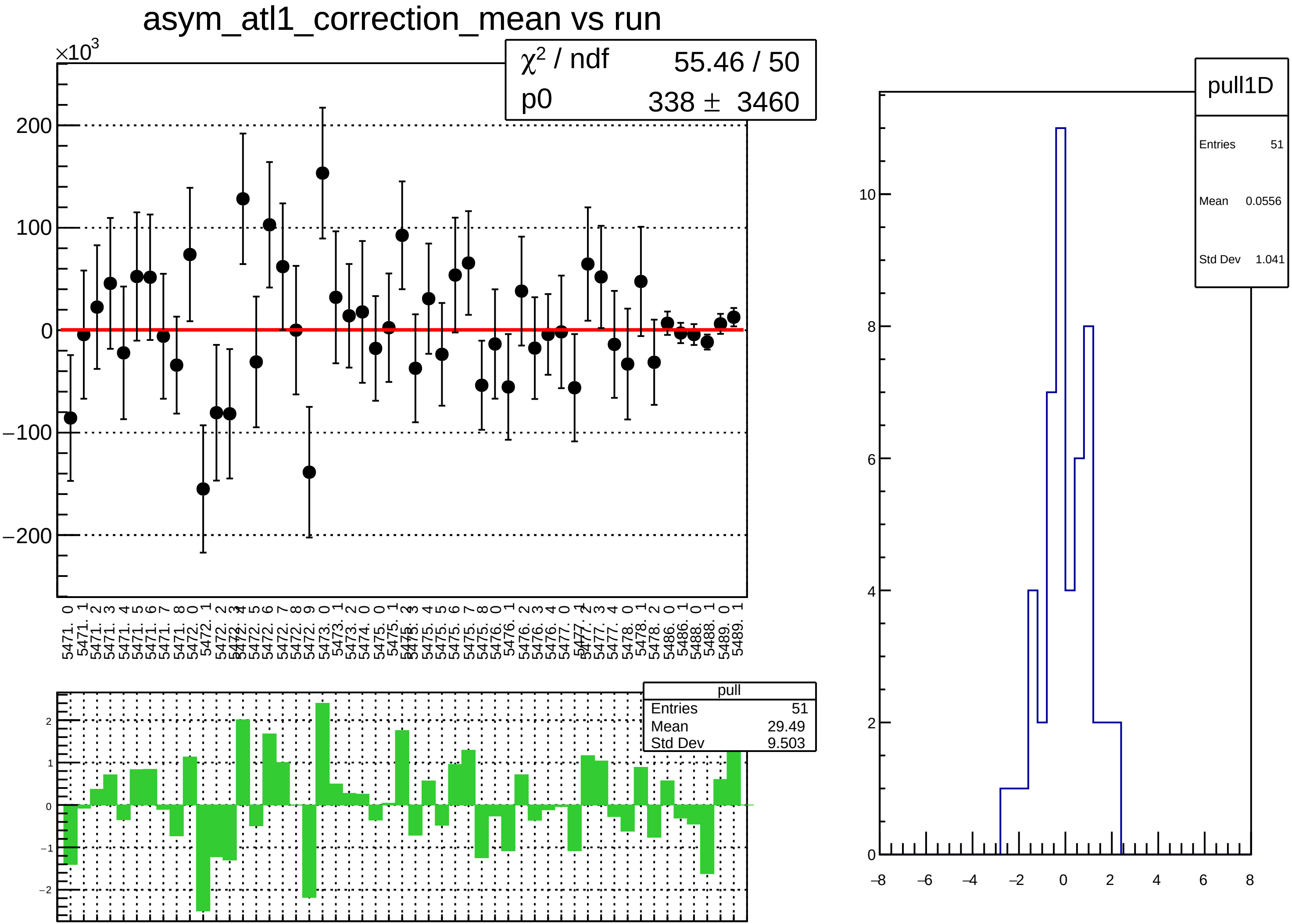
pull
Entries 0
Mean 0
Std Dev 0
pull1D
Entries 0
Mean 0
Std Dev 0



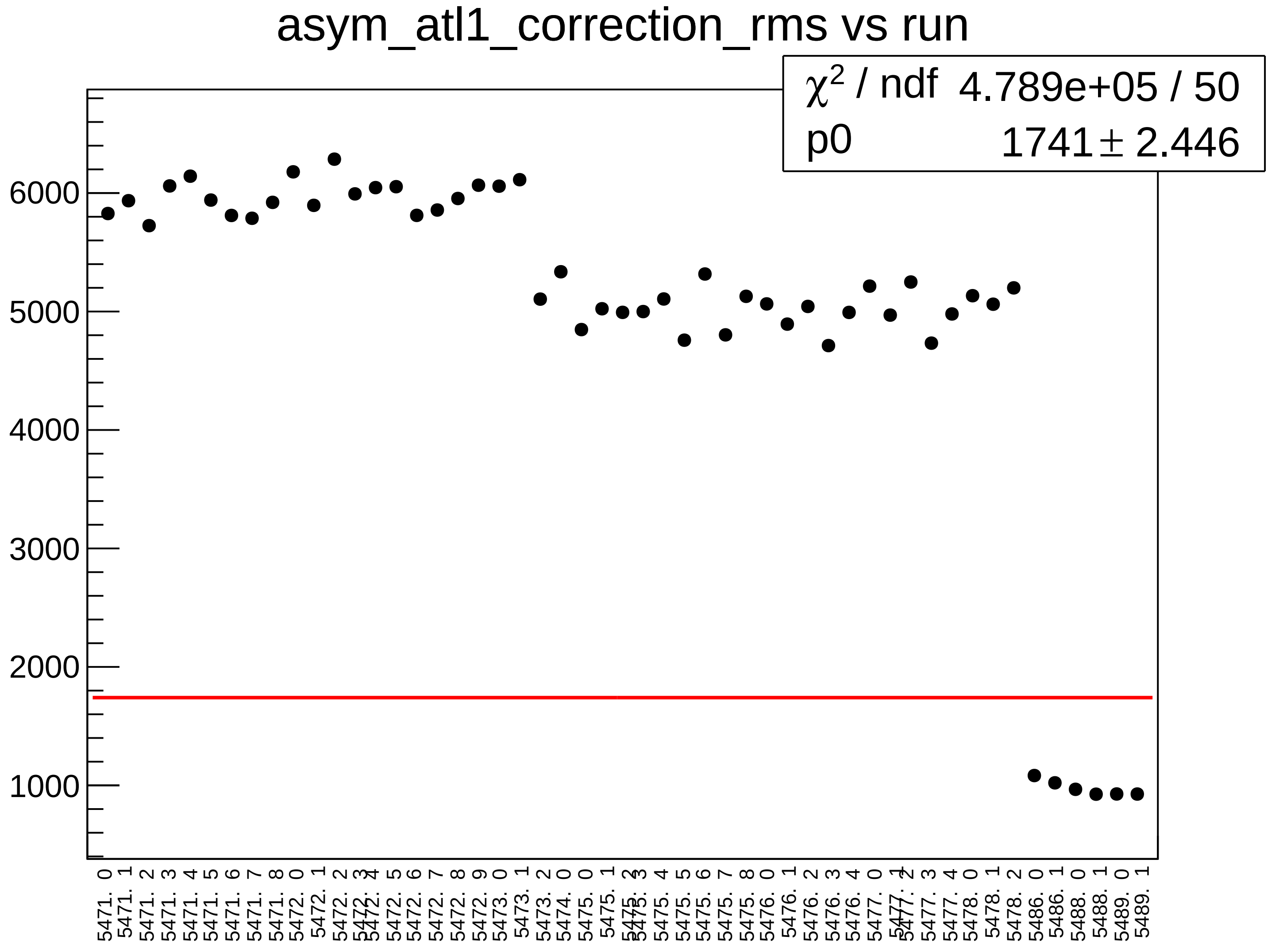
reg_asym_atl1_mean vs run
χ^2 / ndf 55.95 / 50
p0 1738 ± 3705
×10^3
150
100
50
0
−50
pull
Entries 51
Mean 289.8
Std Dev 264.3
pull1D
Entries 51
Mean 0.01192
Std Dev 1.047



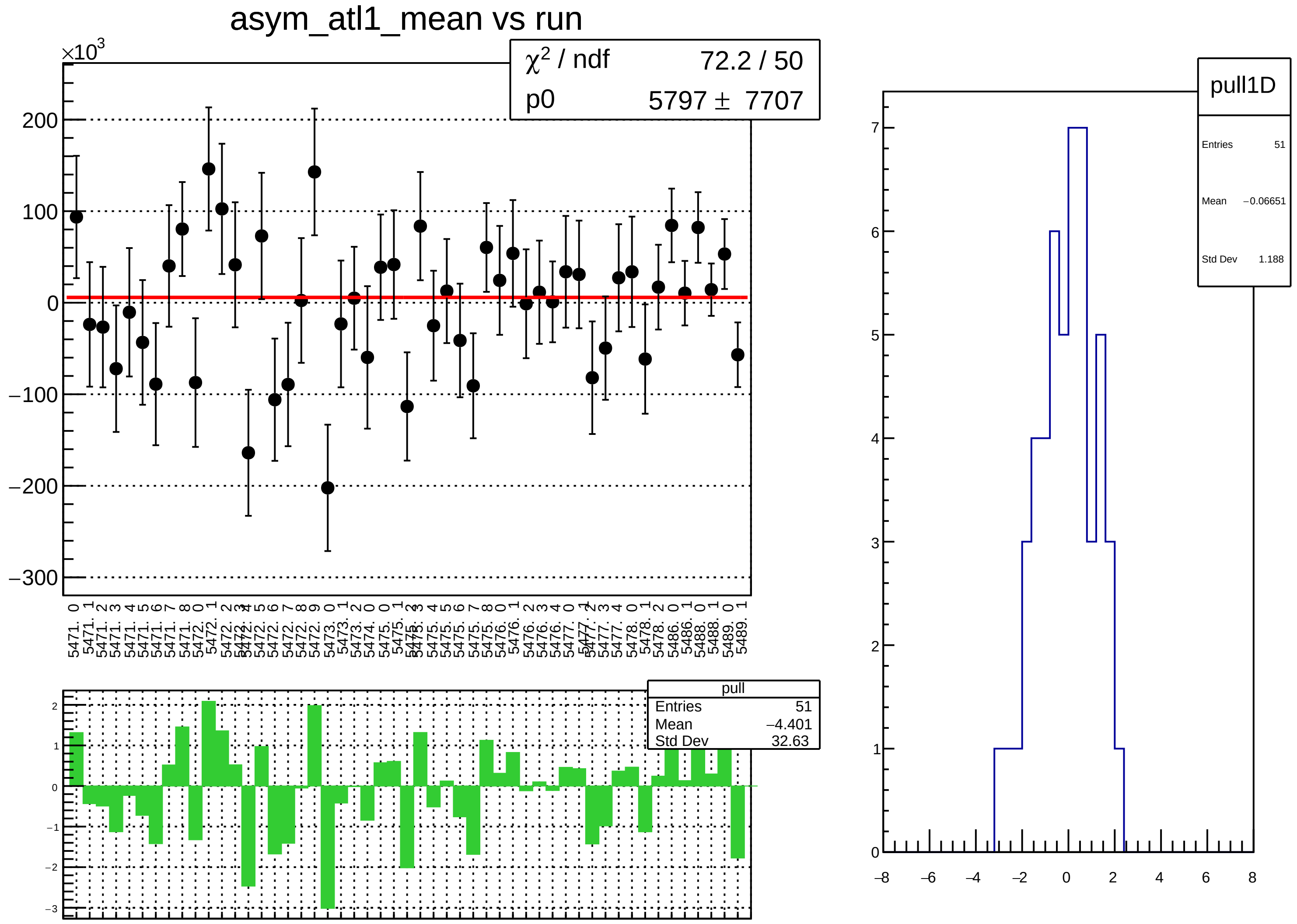
reg_asym_atl1_rms vs run
χ2 / ndf 9955 / 50
p0 2587 ± 2.62
3800
3600
3400
3200
3000
2800
2600
2400



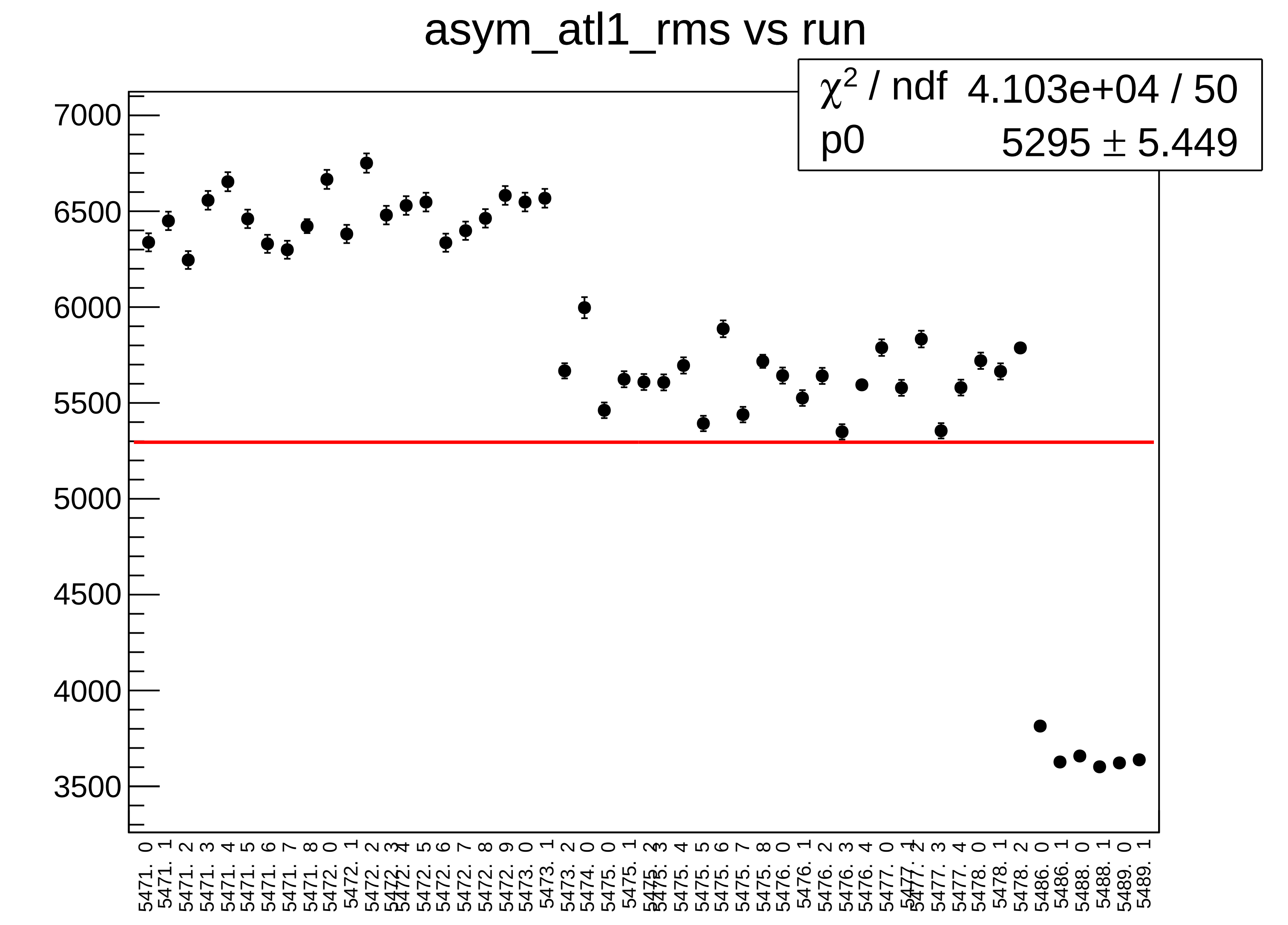
asym_atl1_correction_mean vs run
×10^3
χ2 / ndf 55.46 / 50
p0 338 ± 3460
pull
Entries 51
Mean 29.49
Std Dev 9.503
pull1D
Entries 51
Mean 0.0556
Std Dev 1.041



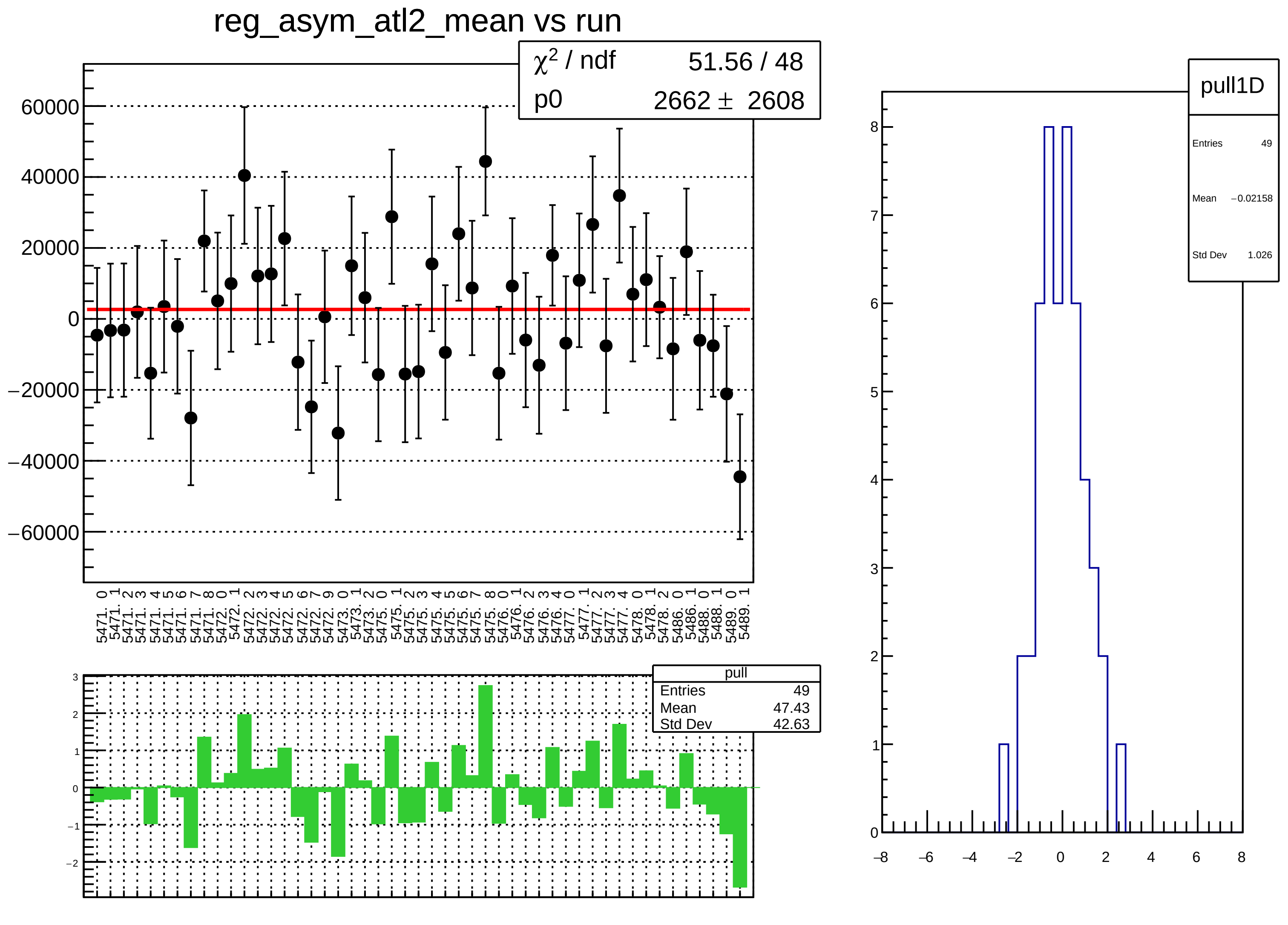
asym_atl1_correction_rms vs run
χ^2 / ndf 4.789e+05 / 50
p0 1741 ± 2.446
6000
5000
4000
3000
2000
1000



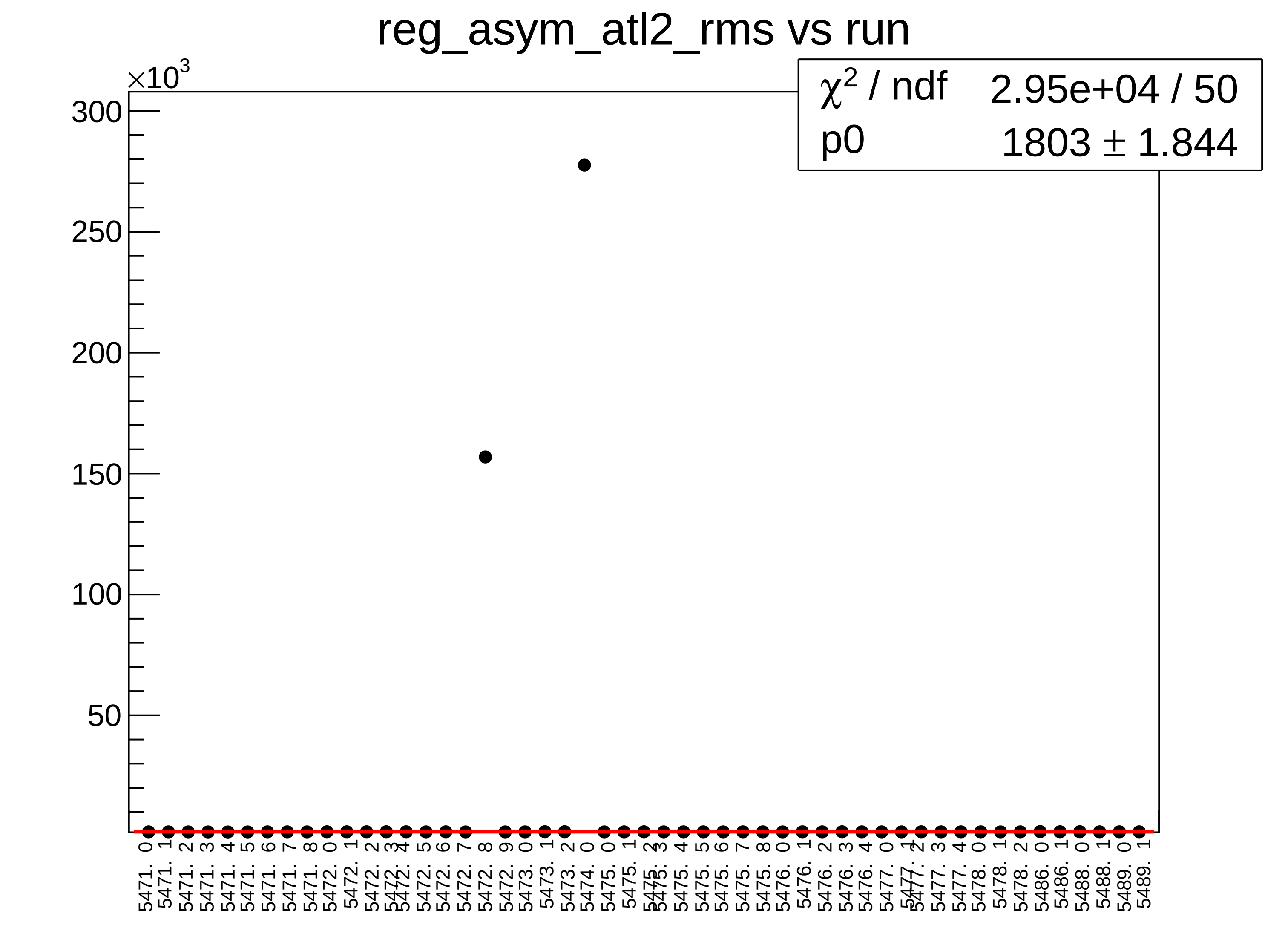
asym_atl1_mean vs run
$\times10^3$
χ^2 / ndf 72.2 / 50
p0 5797 ± 7707
pull
Entries 51
Mean −4.401
Std Dev 32.63
pull1D
Entries 51
Mean −0.06651
Std Dev 1.188



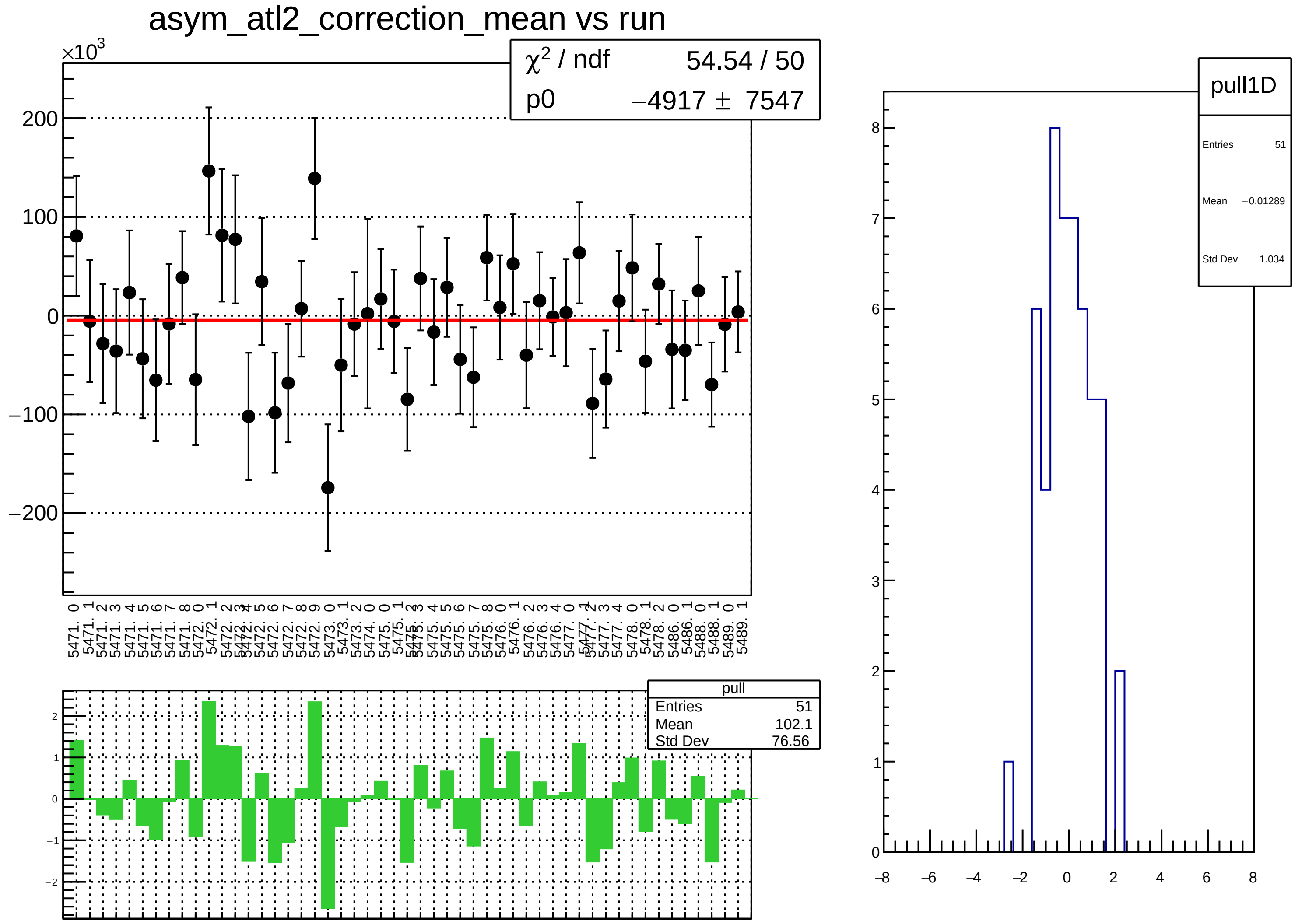
asym_atl1_rms vs run
χ^2 / ndf 4.103e+04 / 50
p0 5295 ± 5.449
7000
6500
6000
5500
5000
4500
4000
3500



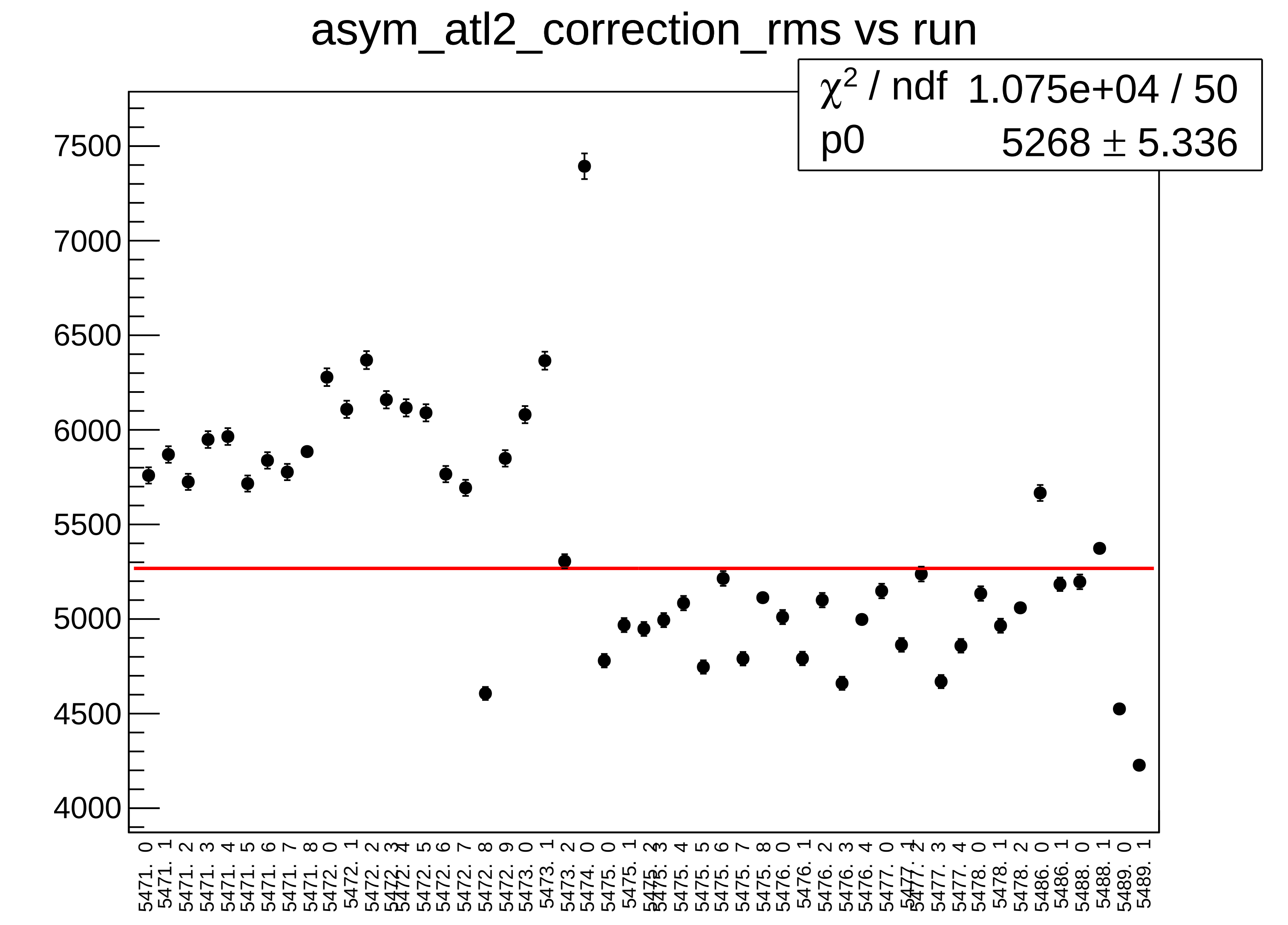
reg_asym_atl2_mean vs run
χ^2 / ndf 51.56 / 48
p0 2662 ± 2608
60000
40000
20000
0
−20000
−40000
−60000
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.9
5473.0
5473.1
5473.2
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1
pull
Entries 49
Mean 47.43
Std Dev 42.63
pull1D
Entries 49
Mean −0.02158
Std Dev 1.026



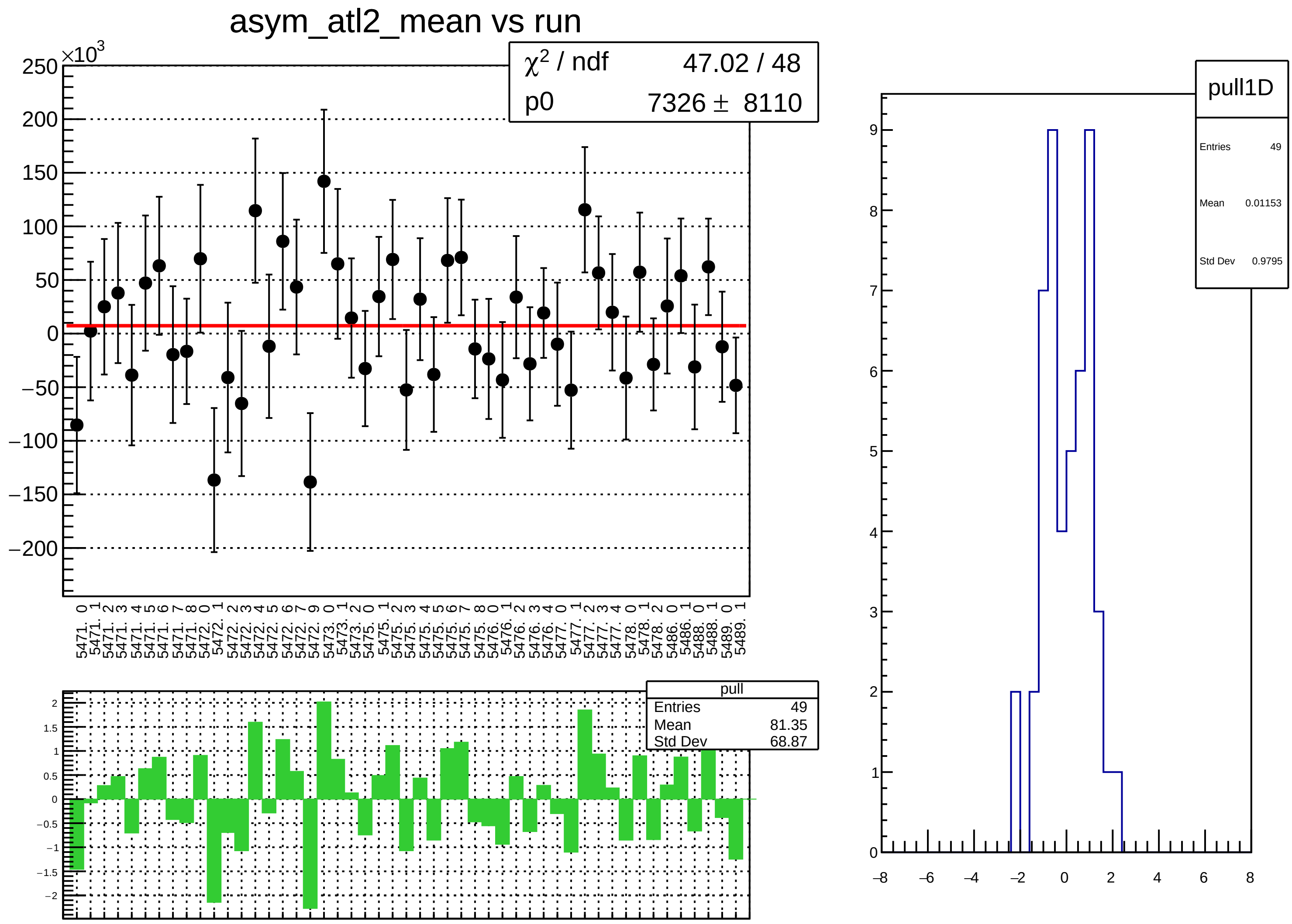
reg_asym_atl2_rms vs run
×10^3
300
250
200
150
100
50
χ2 / ndf 2.95e+04 / 50
p0 1803 ± 1.844

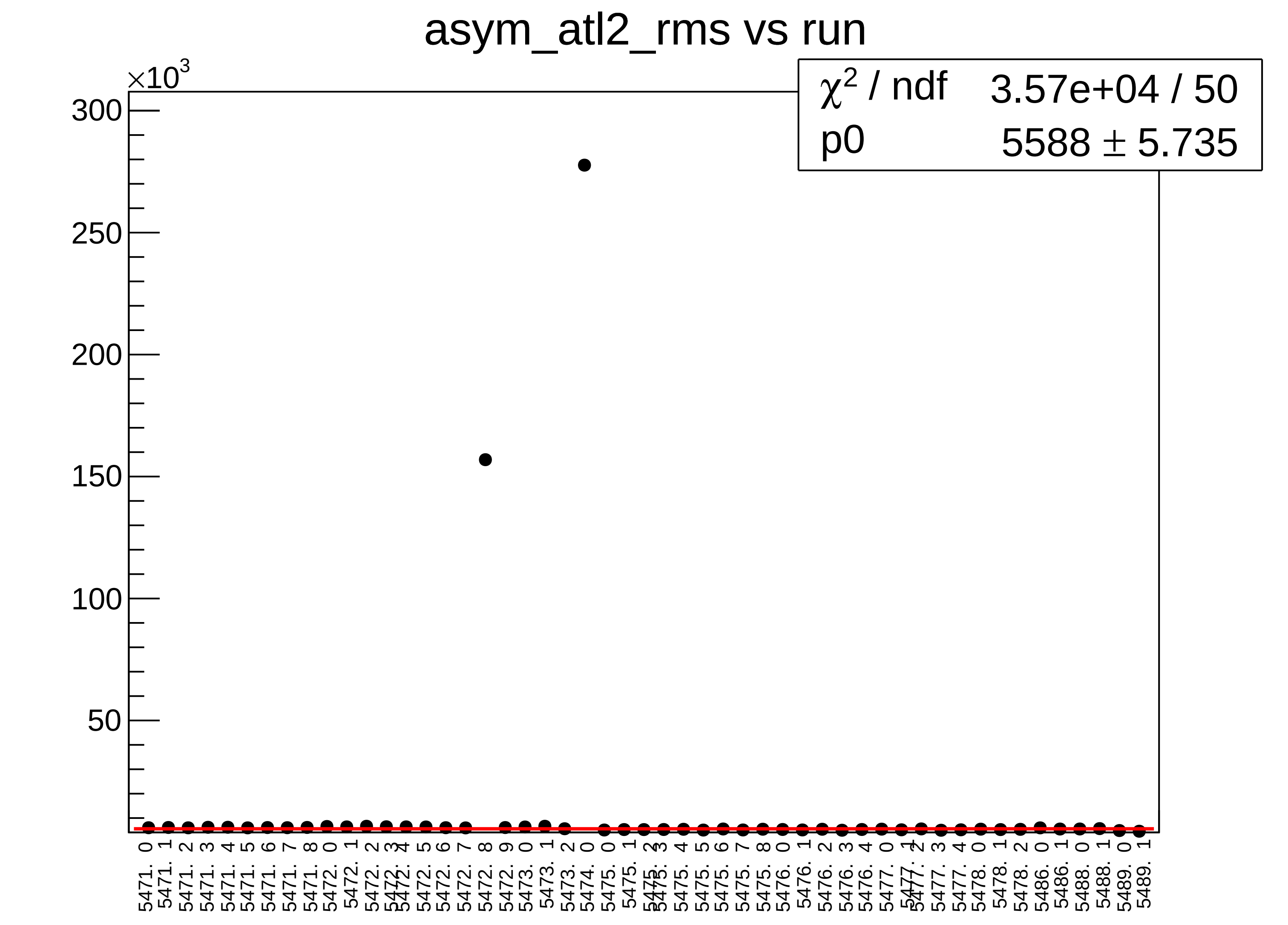


asym_atl2_correction_mean vs run
×10^3
χ2 / ndf 54.54 / 50
p0 −4917 ± 7547
pull
Entries 51
Mean 102.1
Std Dev 76.56
pull1D
Entries 51
Mean −0.01289
Std Dev 1.034

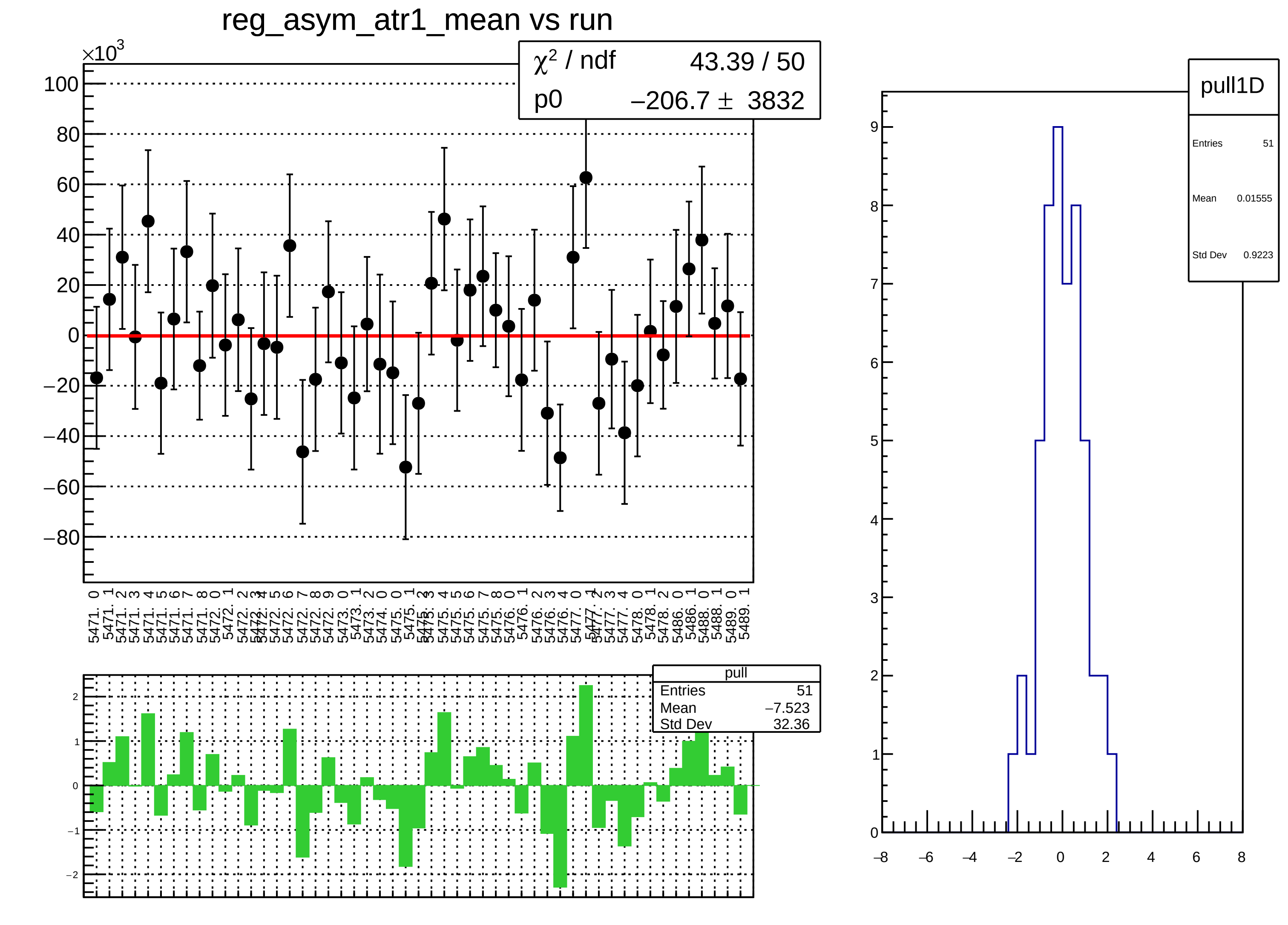


asym_atl2_correction_rms vs run
χ^2 / ndf 1.075e+04 / 50
p0 5268 ± 5.336
7500
7000
6500
6000
5500
5000
4500
4000

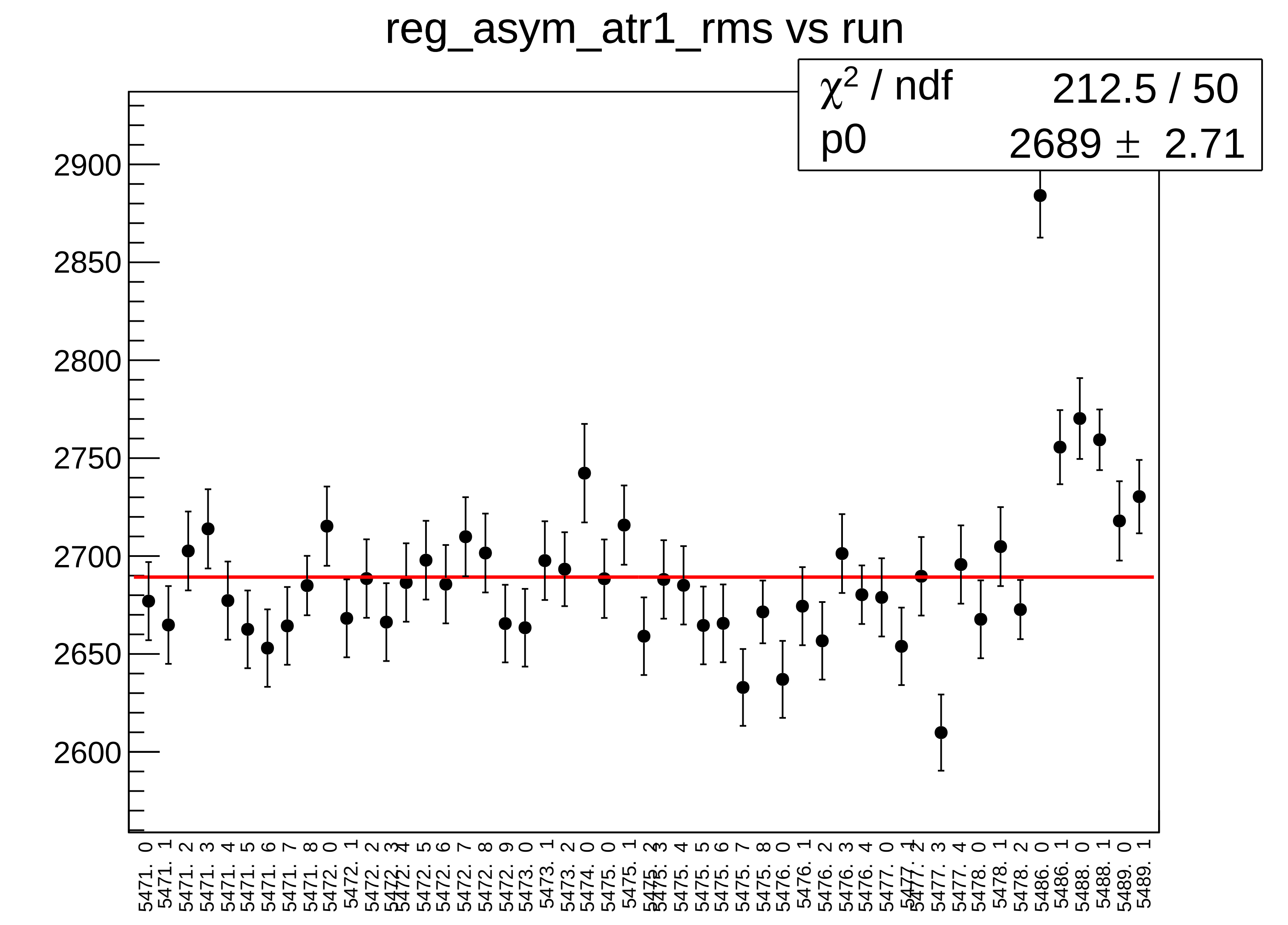

asym_atl2_mean vs run
×10^3
χ2 / ndf 47.02 / 48
p0 7326 ± 8110
pull
Entries 49
Mean 81.35
Std Dev 68.87
pull1D
Entries 49
Mean 0.01153
Std Dev 0.9795



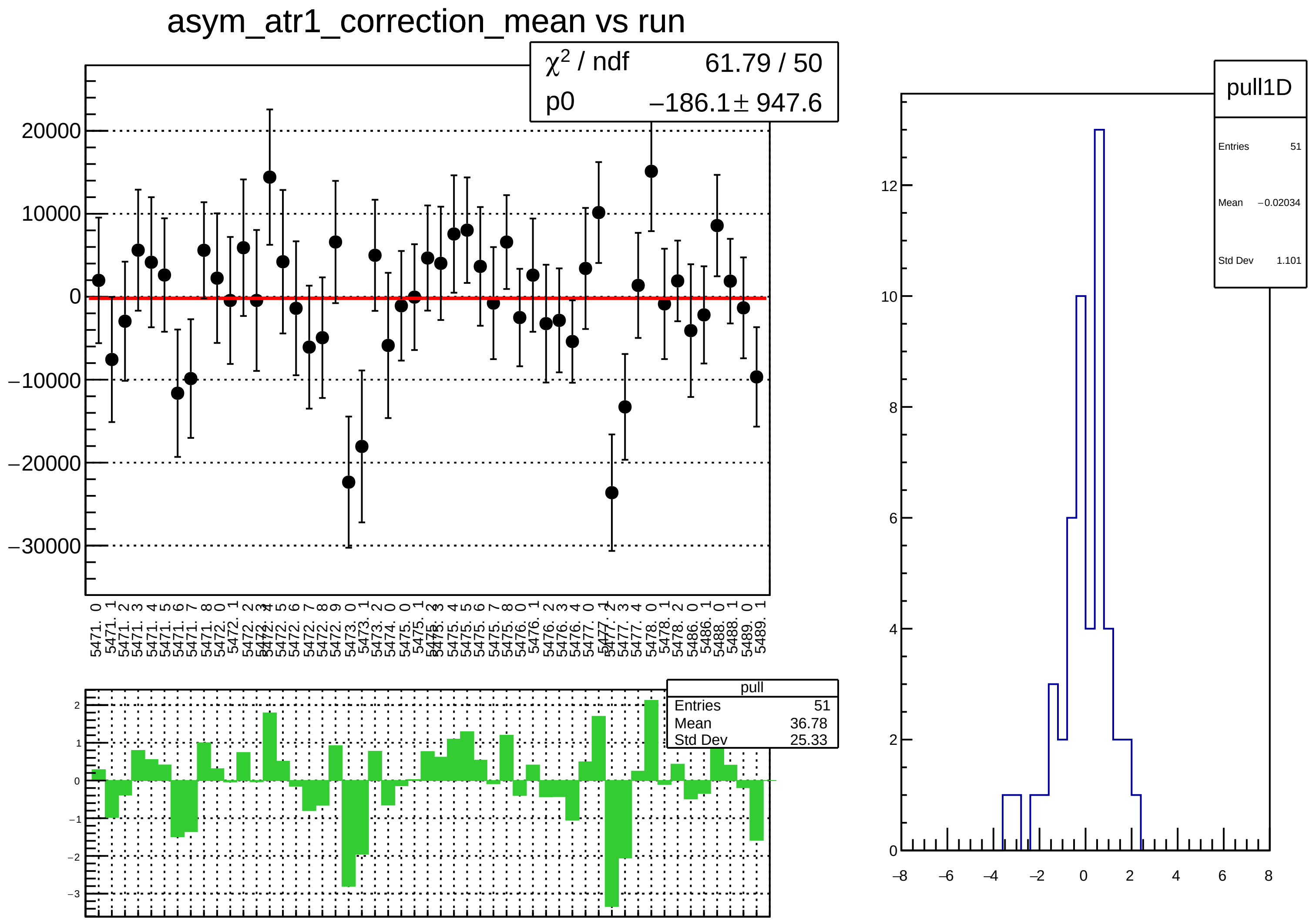
asym_atl2_rms vs run
×10^3
300
250
200
150
100
50
χ2 / ndf 3.57e+04 / 50
p0 5588 ± 5.735



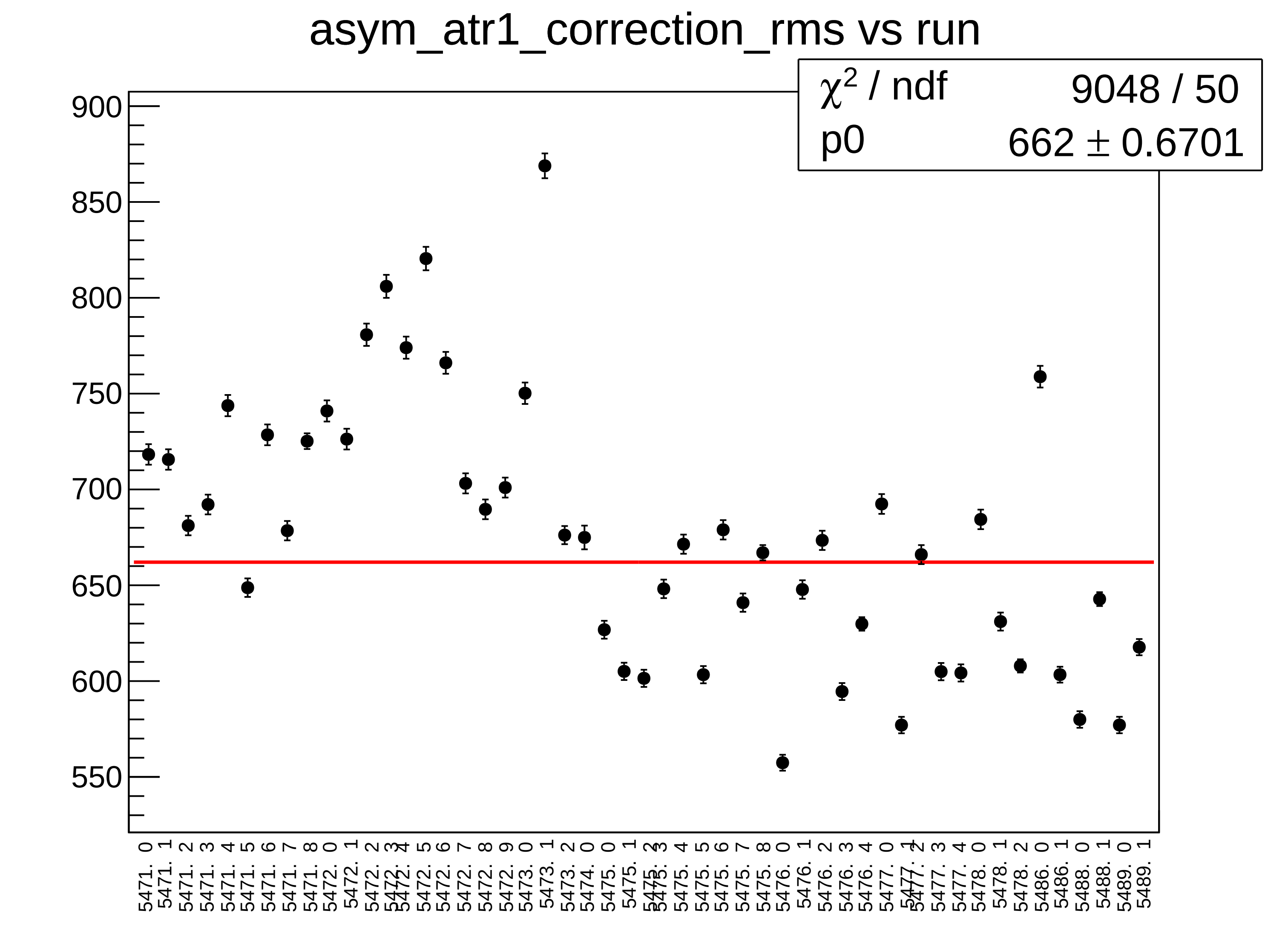
reg_asym_atr1_mean vs run
χ^2 / ndf 43.39 / 50
p0 −206.7 ± 3832
×10^3
pull
Entries 51
Mean −7.523
Std Dev 32.36
pull1D
Entries 51
Mean 0.01555
Std Dev 0.9223



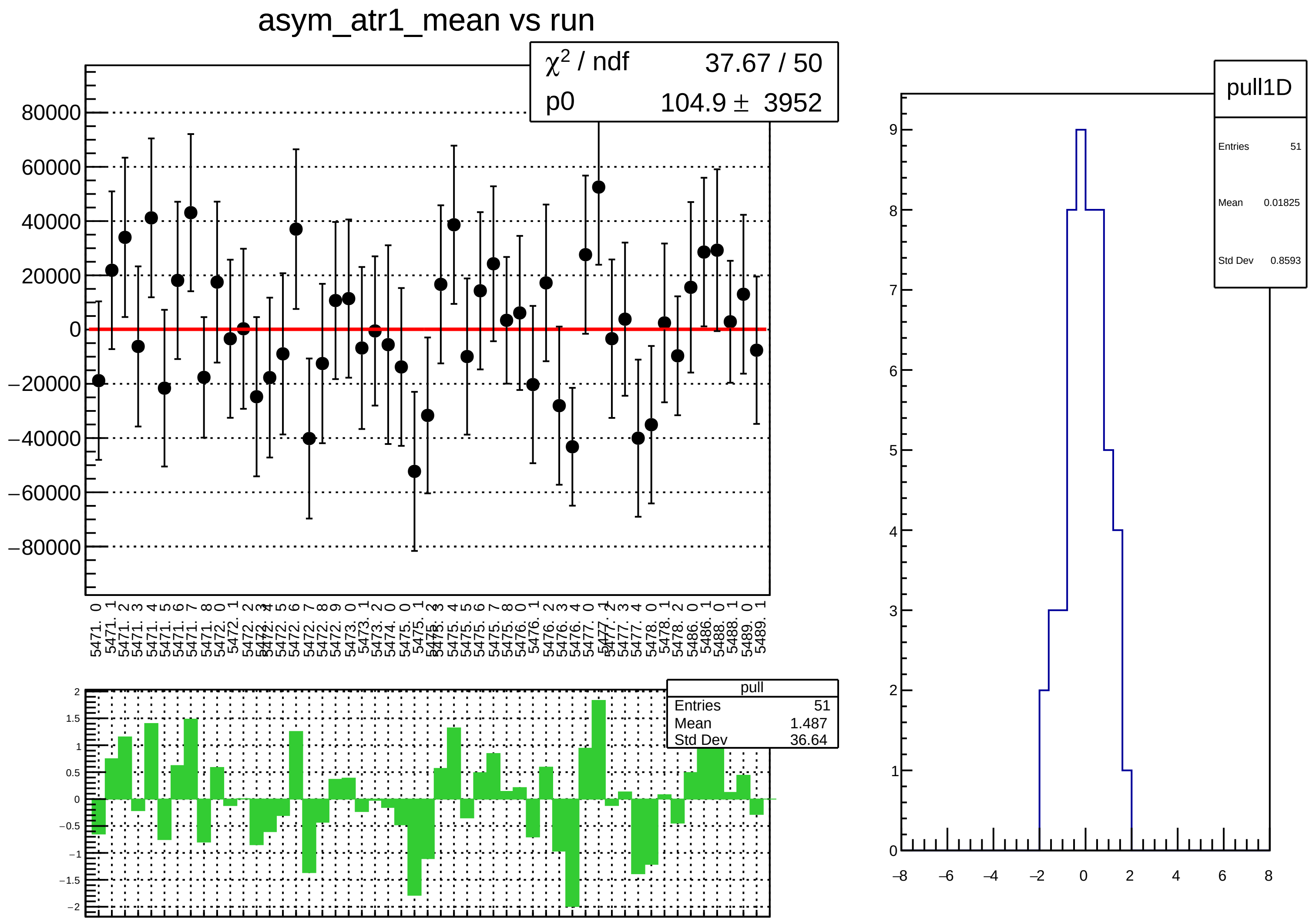
reg_asym_atr1_rms vs run
χ2 / ndf 212.5 / 50
p0 2689 ± 2.71
2600
2650
2700
2750
2800
2850
2900



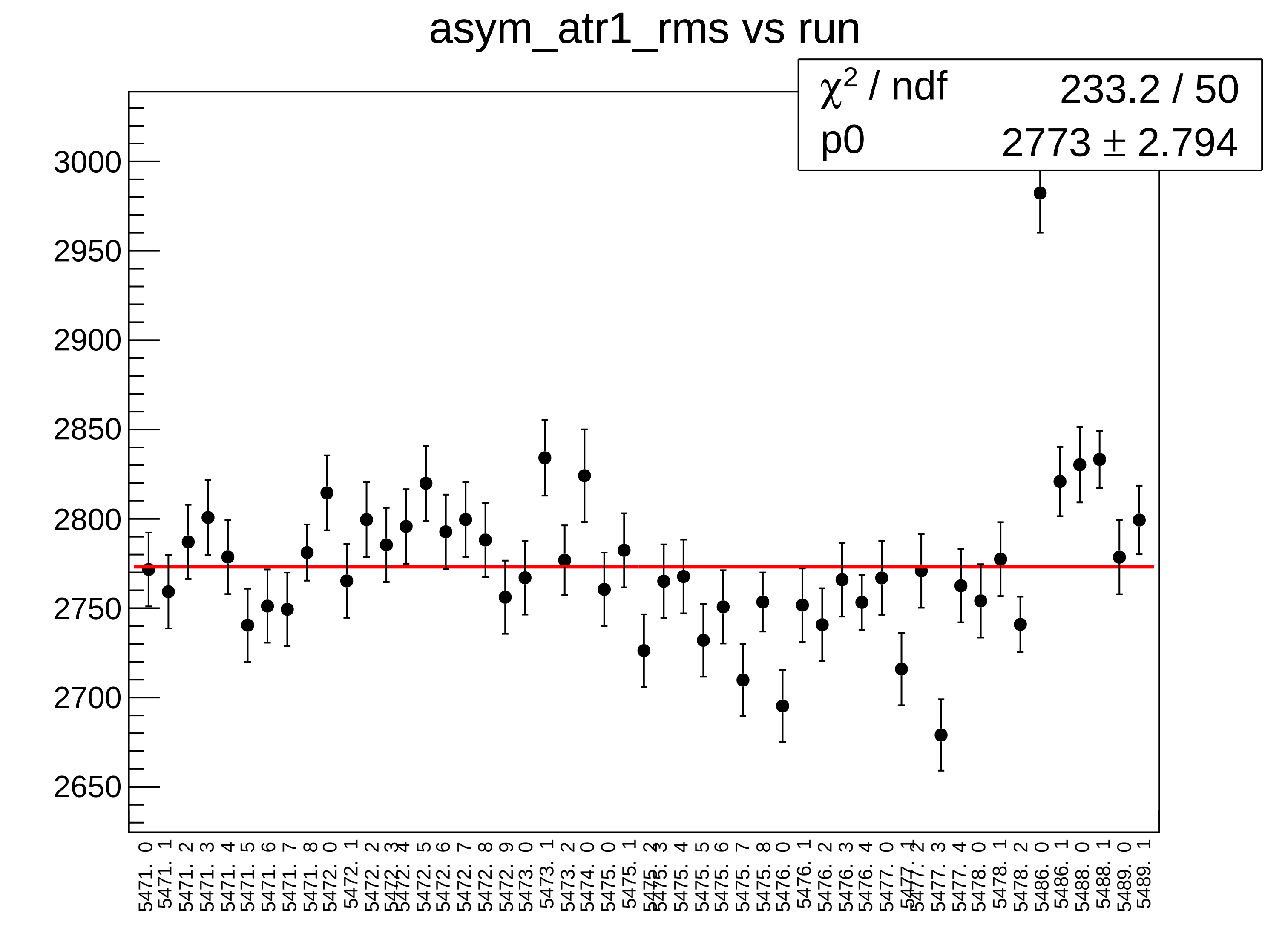
asym_atr1_correction_mean vs run
χ^2 / ndf 61.79 / 50
p0 −186.1 ± 947.6
pull
Entries 51
Mean 36.78
Std Dev 25.33
pull1D
Entries 51
Mean −0.02034
Std Dev 1.101

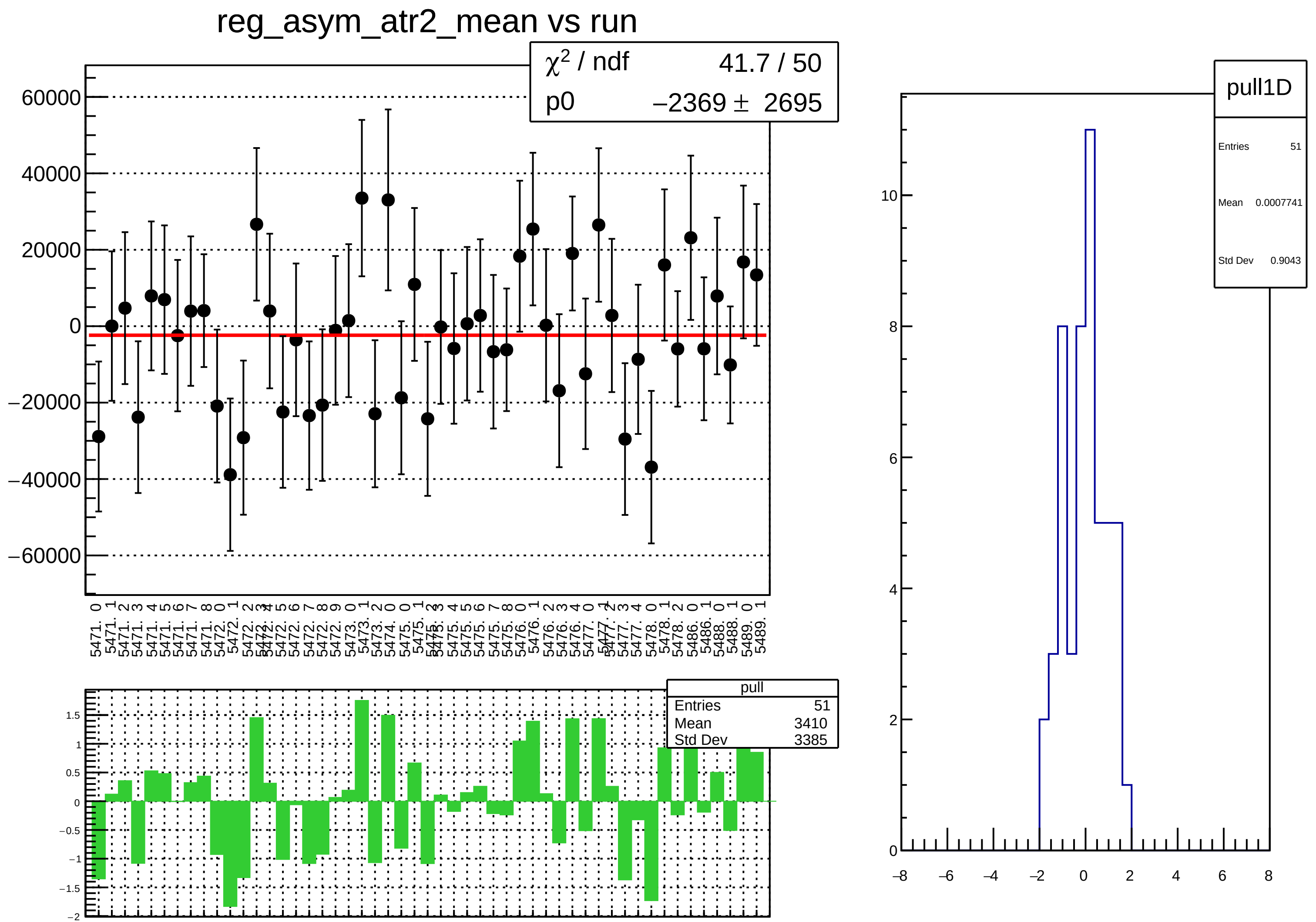


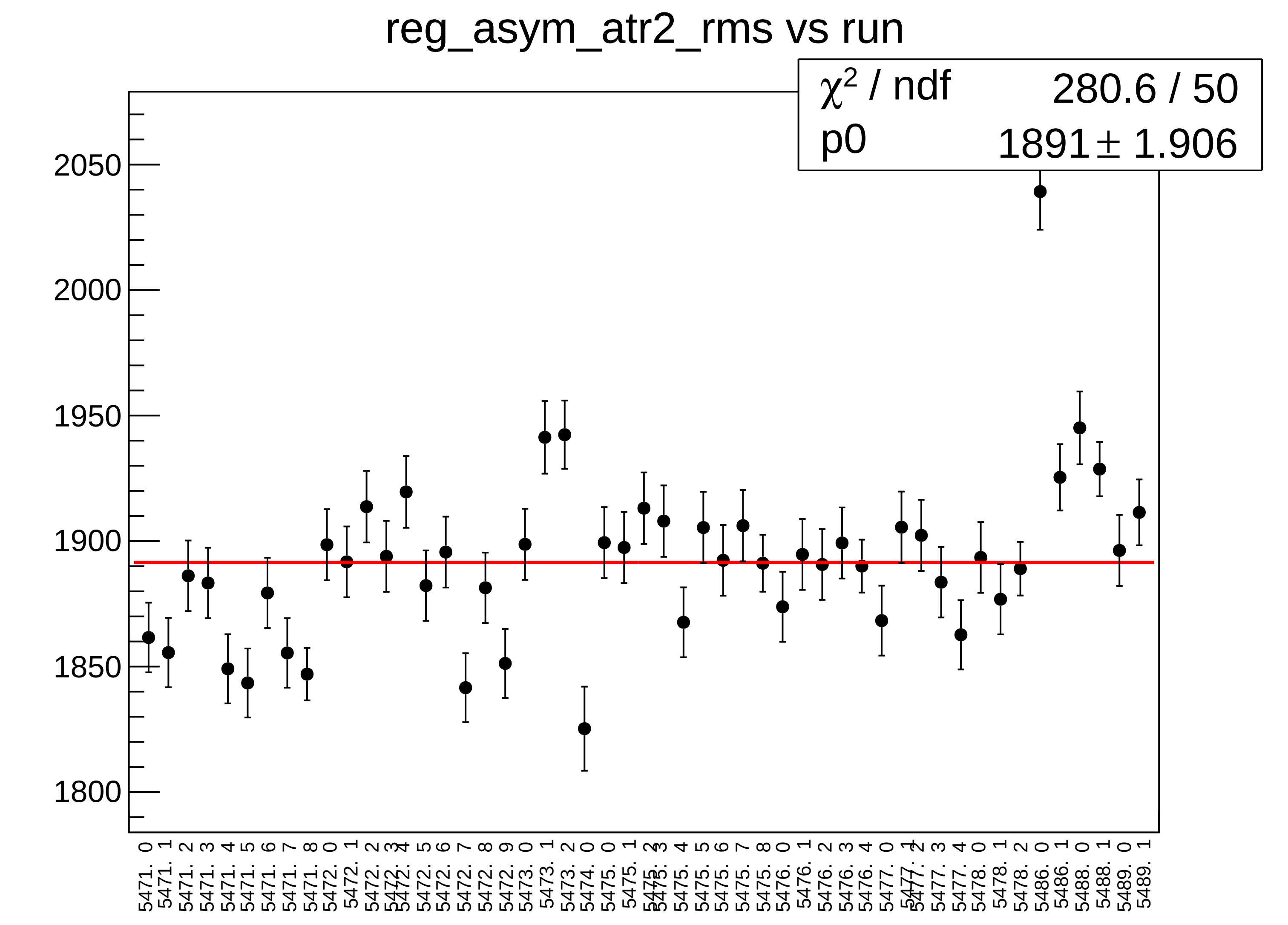
asym_atr1_correction_rms vs run
χ^2 / ndf 9048 / 50
p0 662 ± 0.6701
900
850
800
750
700
650
600
550
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



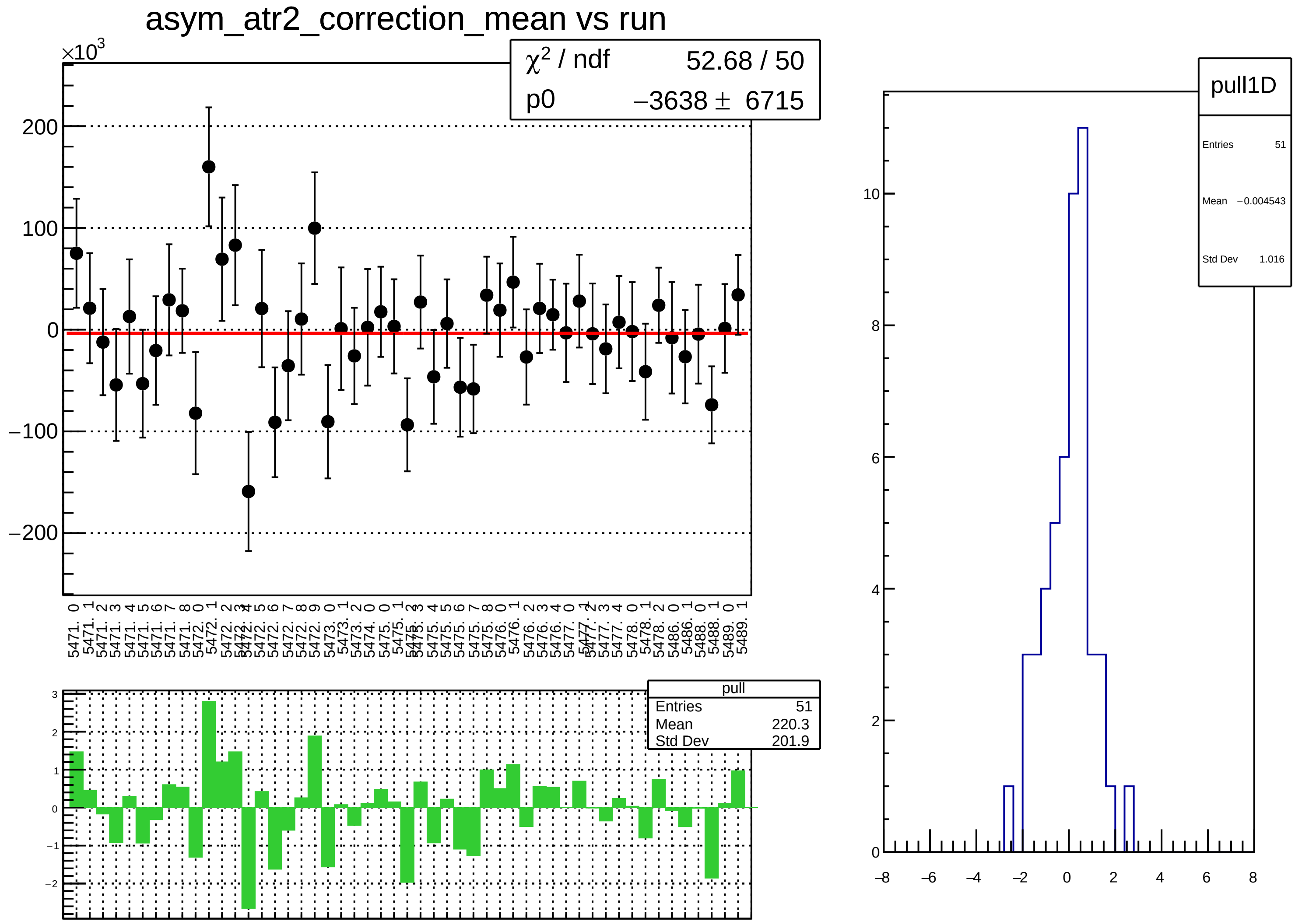
asym_atr1_mean vs run
χ^2 / ndf 37.67 / 50
p0 104.9 ± 3952
pull
Entries 51
Mean 1.487
Std Dev 36.64
pull1D
Entries 51
Mean 0.01825
Std Dev 0.8593


asym_atr1_rms vs run
χ^2 / ndf 233.2 / 50
p0 2773 ± 2.794
3000
2950
2900
2850
2800
2750
2700
2650

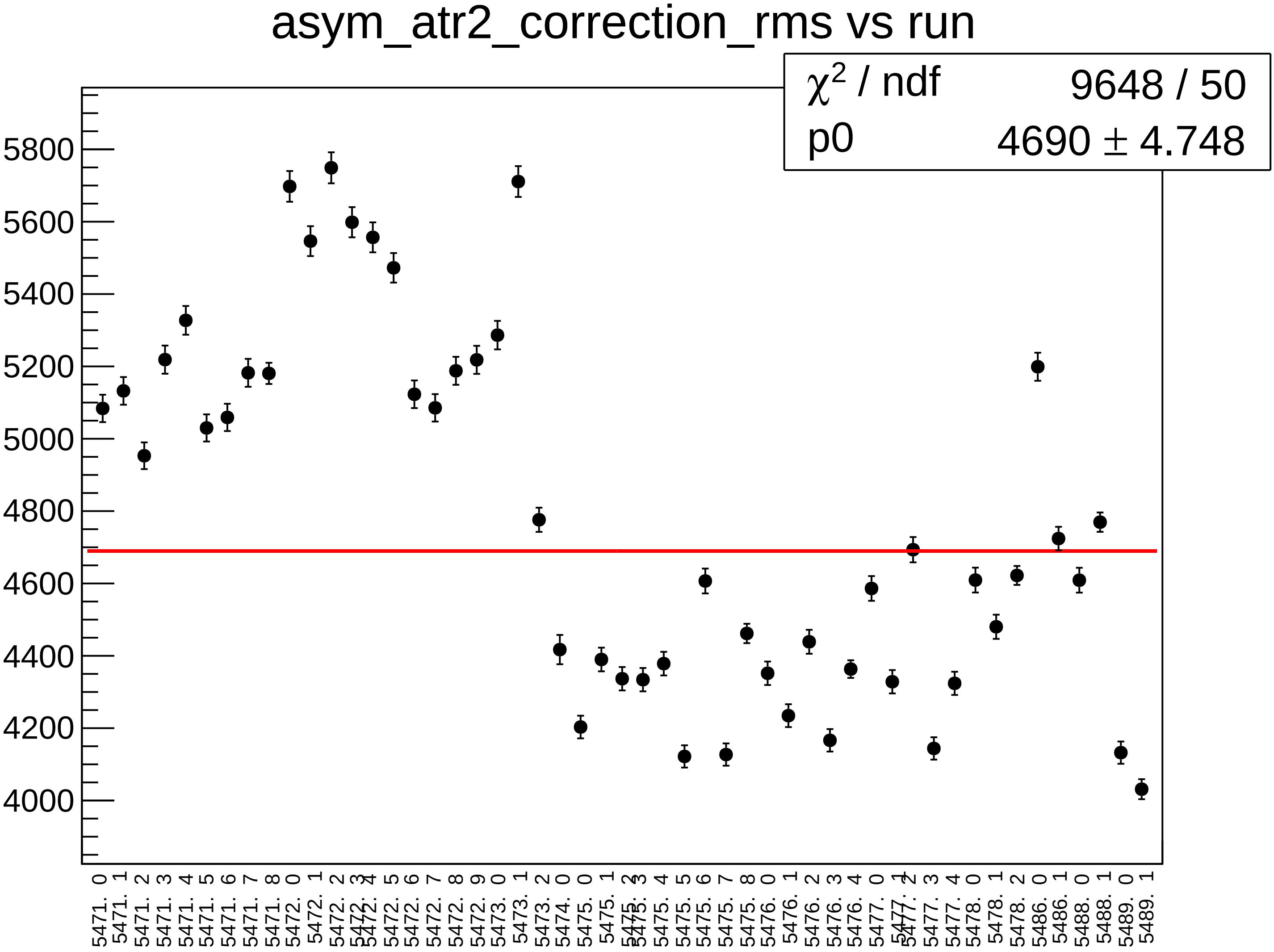

reg_asym_atr2_mean vs run
χ2 / ndf 41.7 / 50
p0 −2369 ± 2695
pull
Entries 51
Mean 3410
Std Dev 3385
pull1D
Entries 51
Mean 0.0007741
Std Dev 0.9043



reg_asym_atr2_rms vs run
χ^2 / ndf 280.6 / 50
p0 1891 ± 1.906
2050
2000
1950
1900
1850
1800

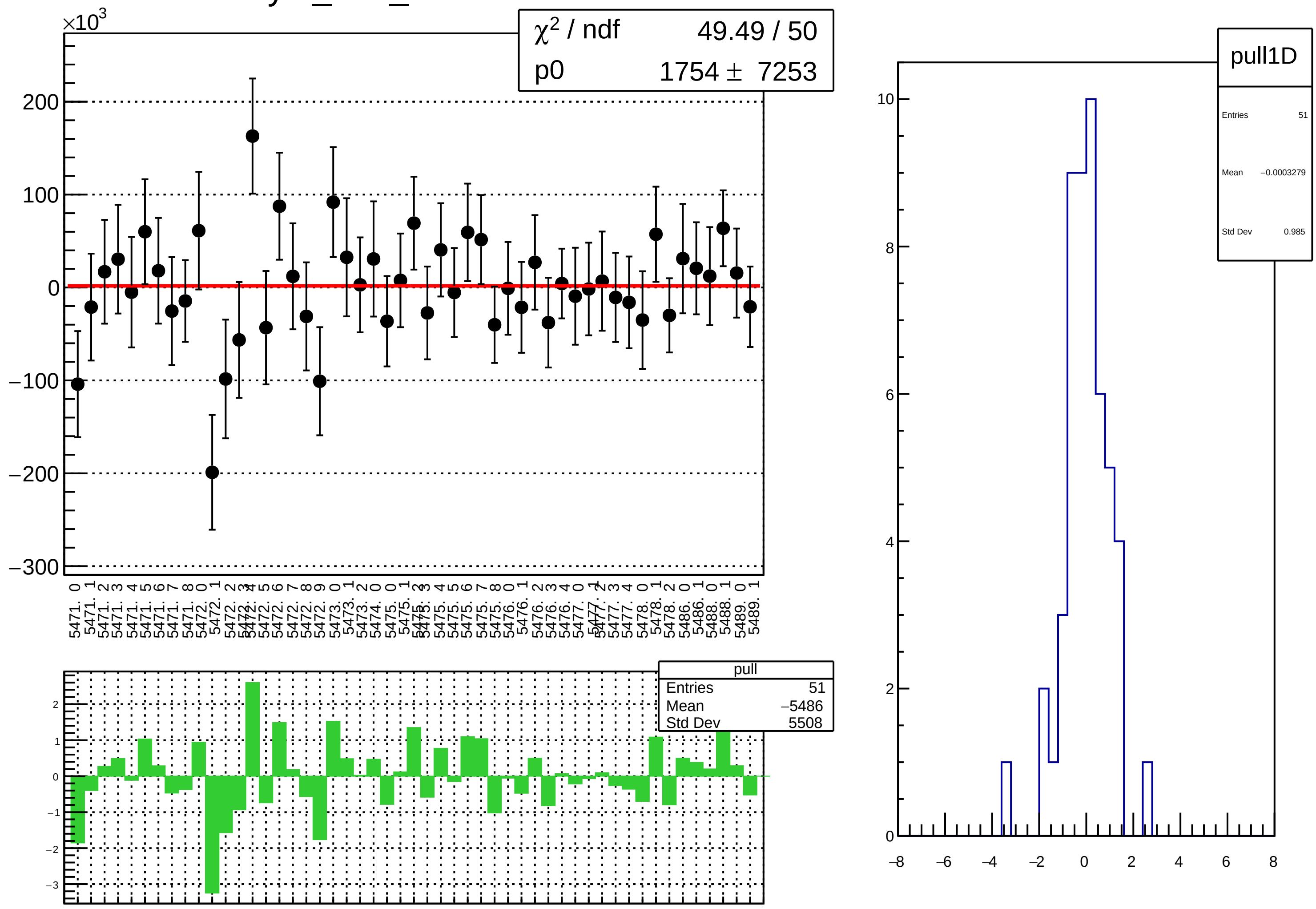


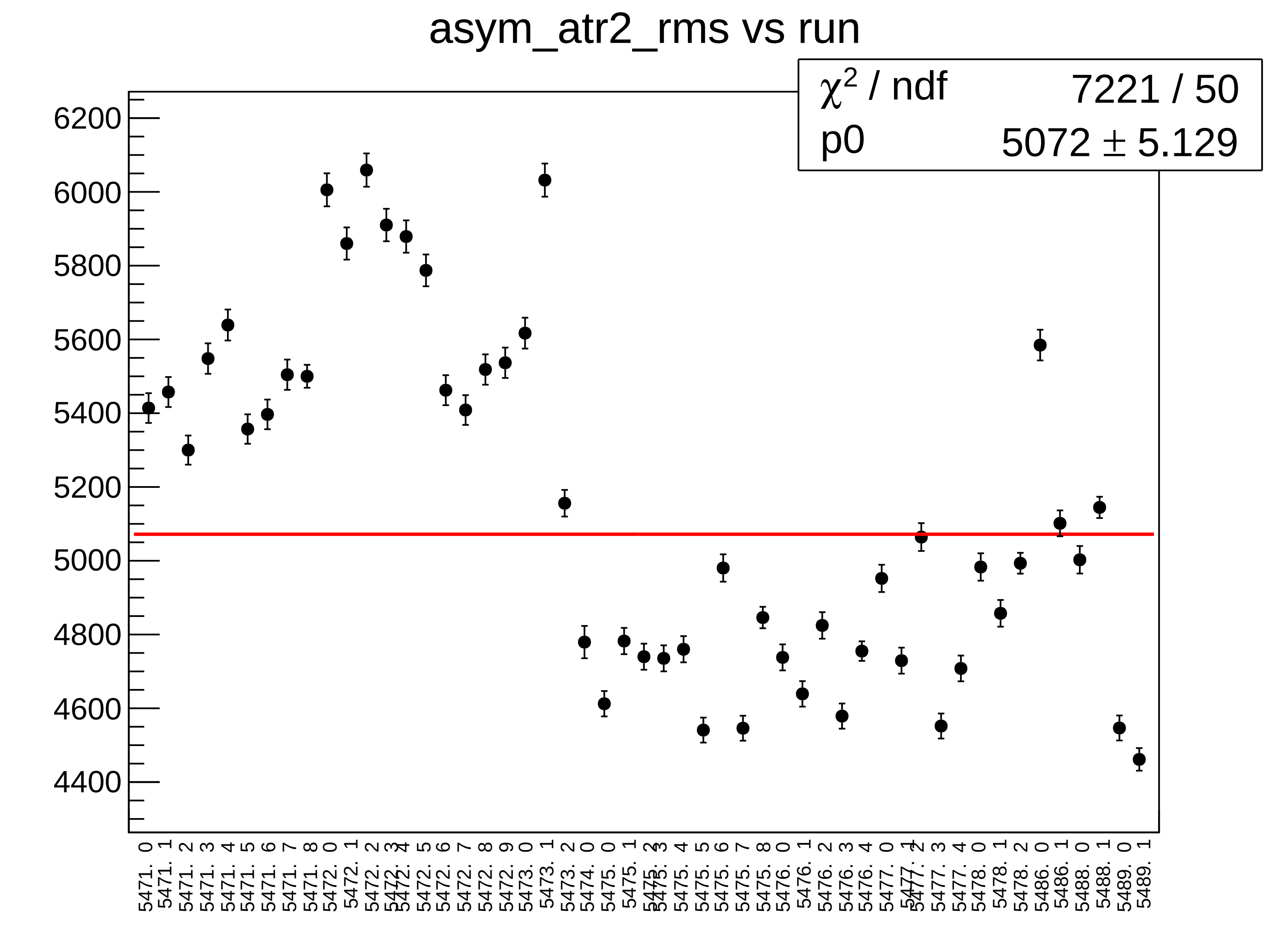
asym_atr2_correction_mean vs run
×10^3
χ2 / ndf 52.68 / 50
p0 −3638 ± 6715
pull
Entries 51
Mean 220.3
Std Dev 201.9
pull1D
Entries 51
Mean −0.004543
Std Dev 1.016



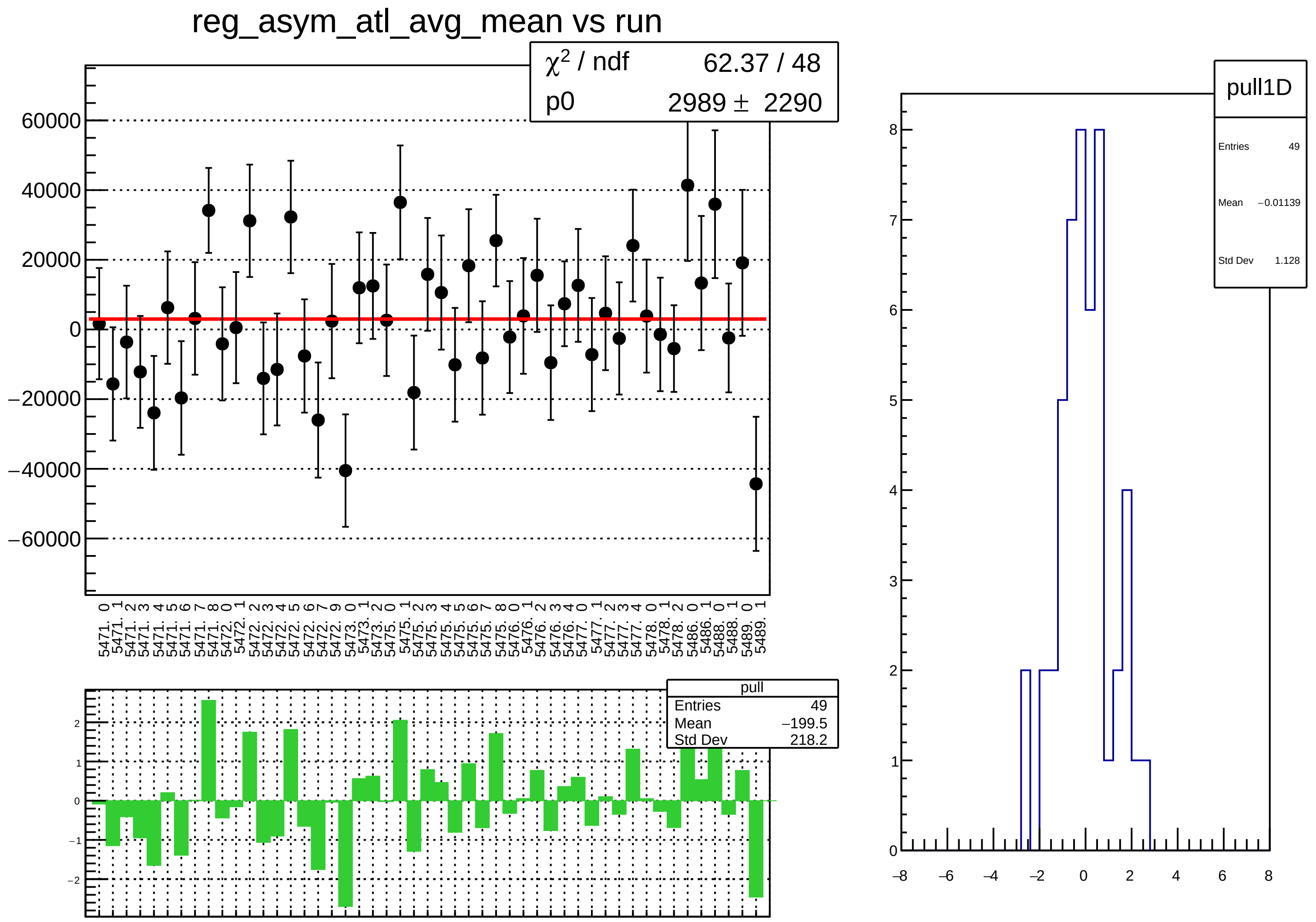
asym_atr2_correction_rms vs run
χ^2 / ndf 9648 / 50
p0 4690 ± 4.748
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

asym_atr2_mean vs run

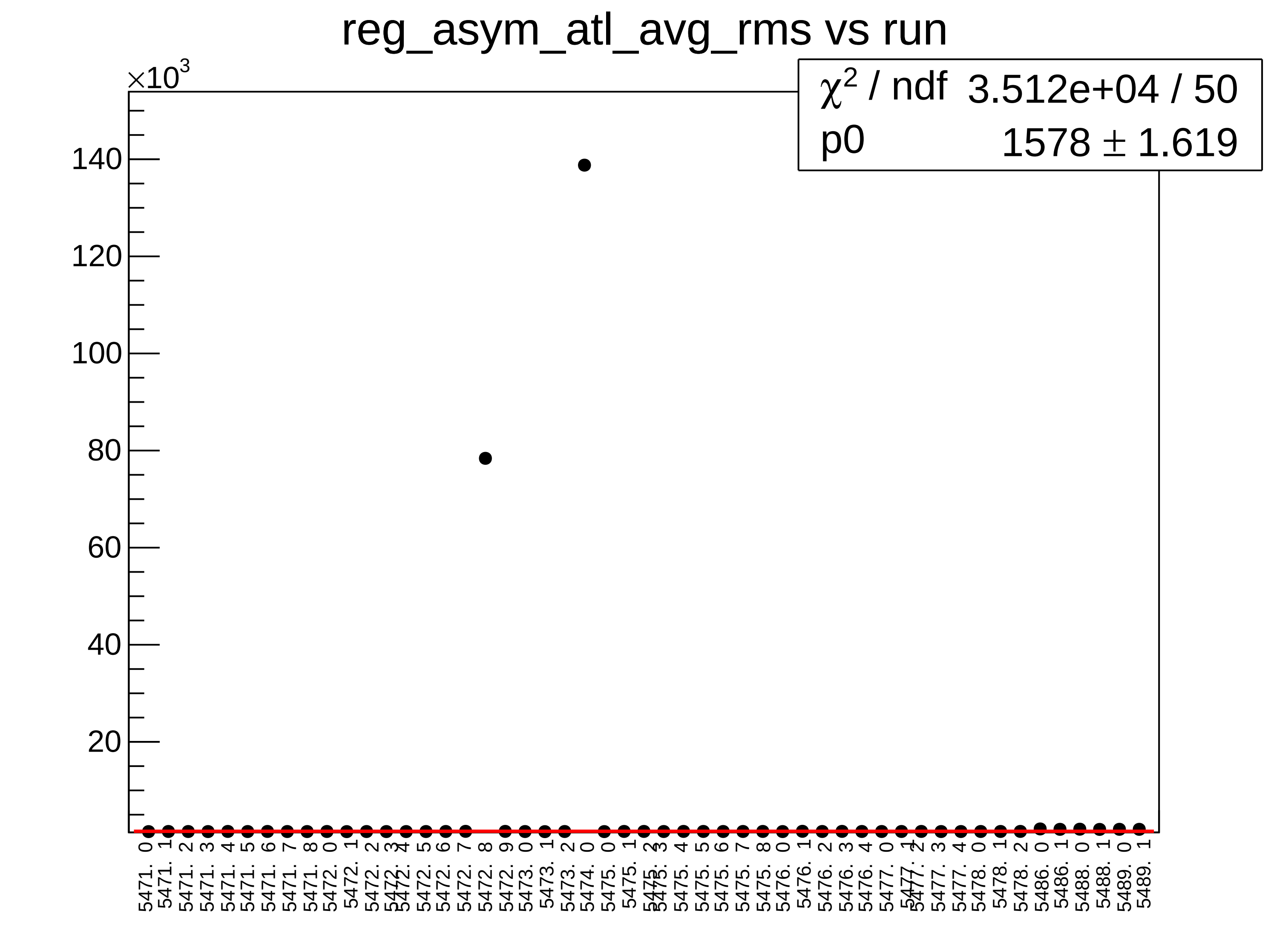


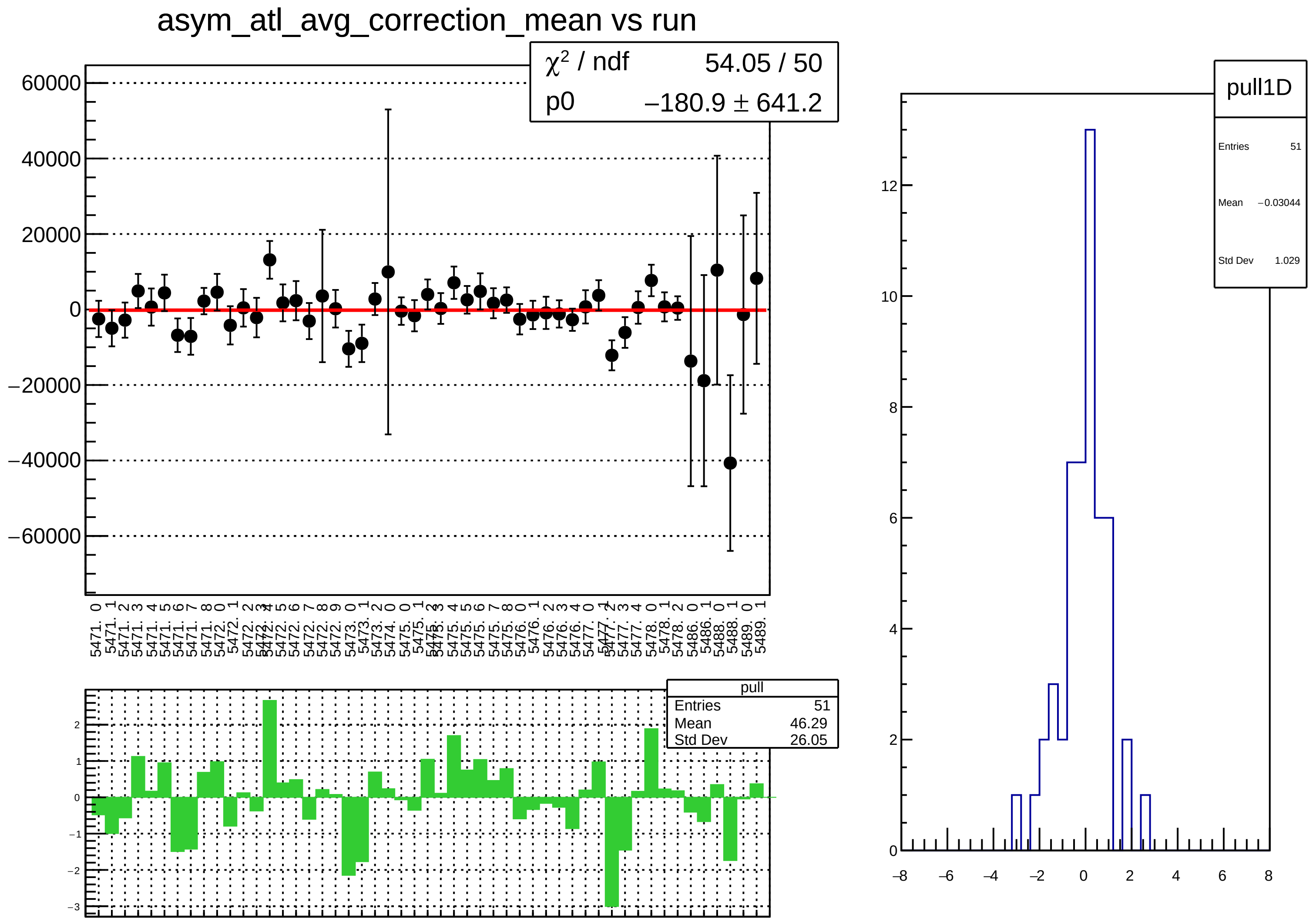


asym_atr2_rms vs run
χ^2 / ndf 7221 / 50
p0 5072 ± 5.129
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

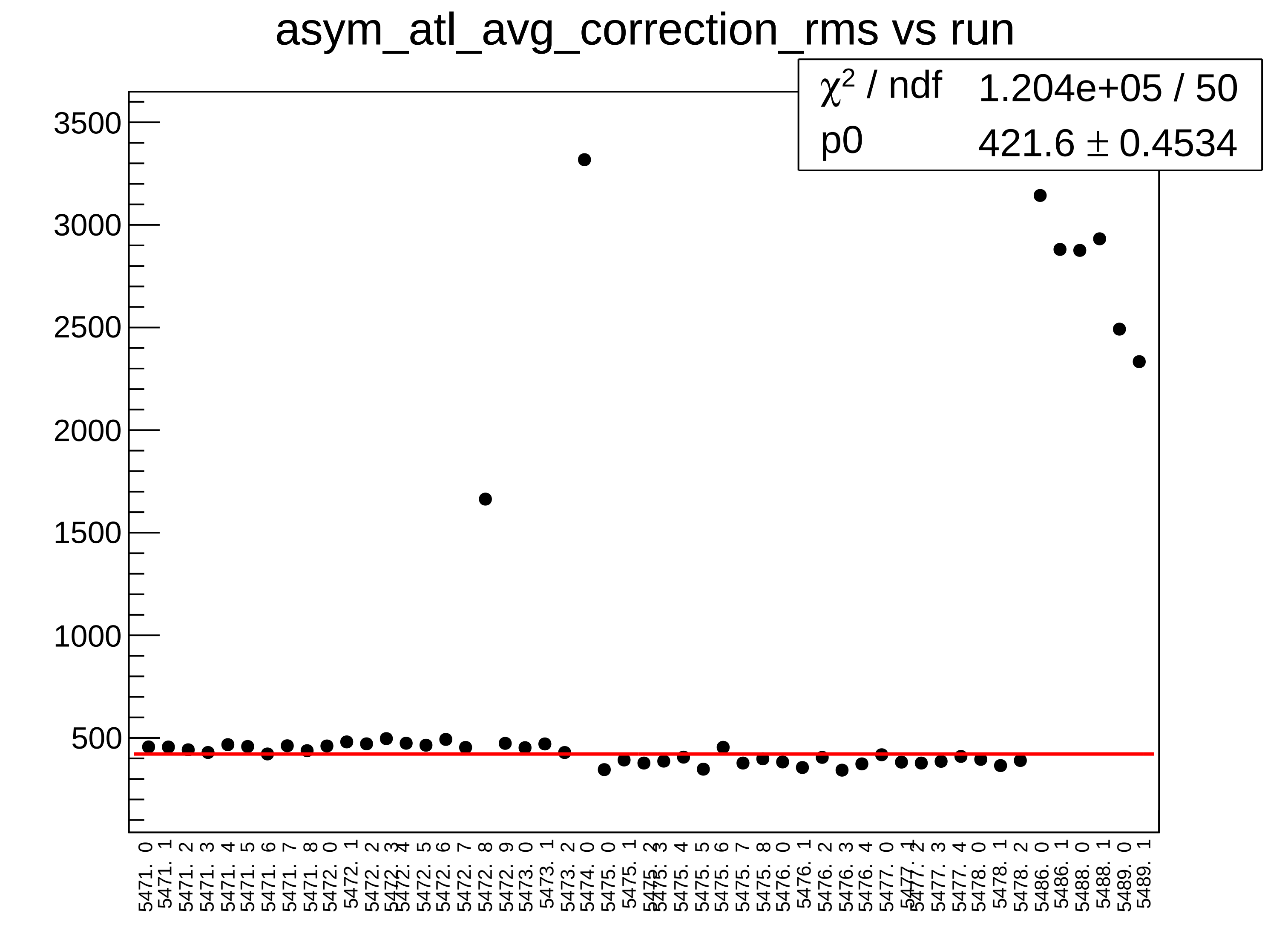


reg_asym_atl_avg_mean vs run
χ^2 / ndf 62.37 / 48
p0 2989 ± 2290
pull
Entries 49
Mean −199.5
Std Dev 218.2
pull1D
Entries 49
Mean −0.01139
Std Dev 1.128

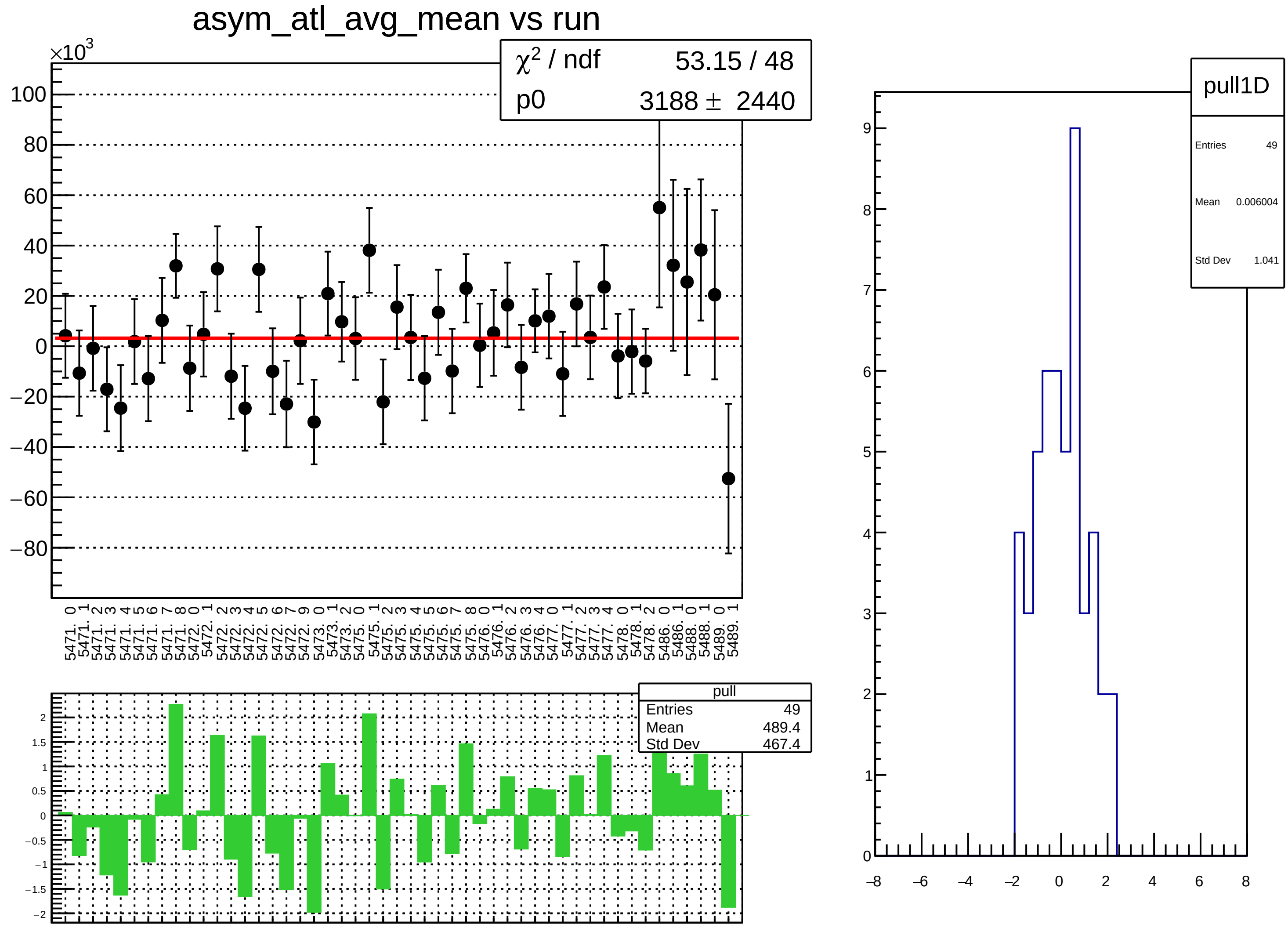

reg_asym_atl_avg_rms vs run
×10^3
χ2 / ndf 3.512e+04 / 50
p0 1578 ± 1.619
140
120
100
80
60
40
20



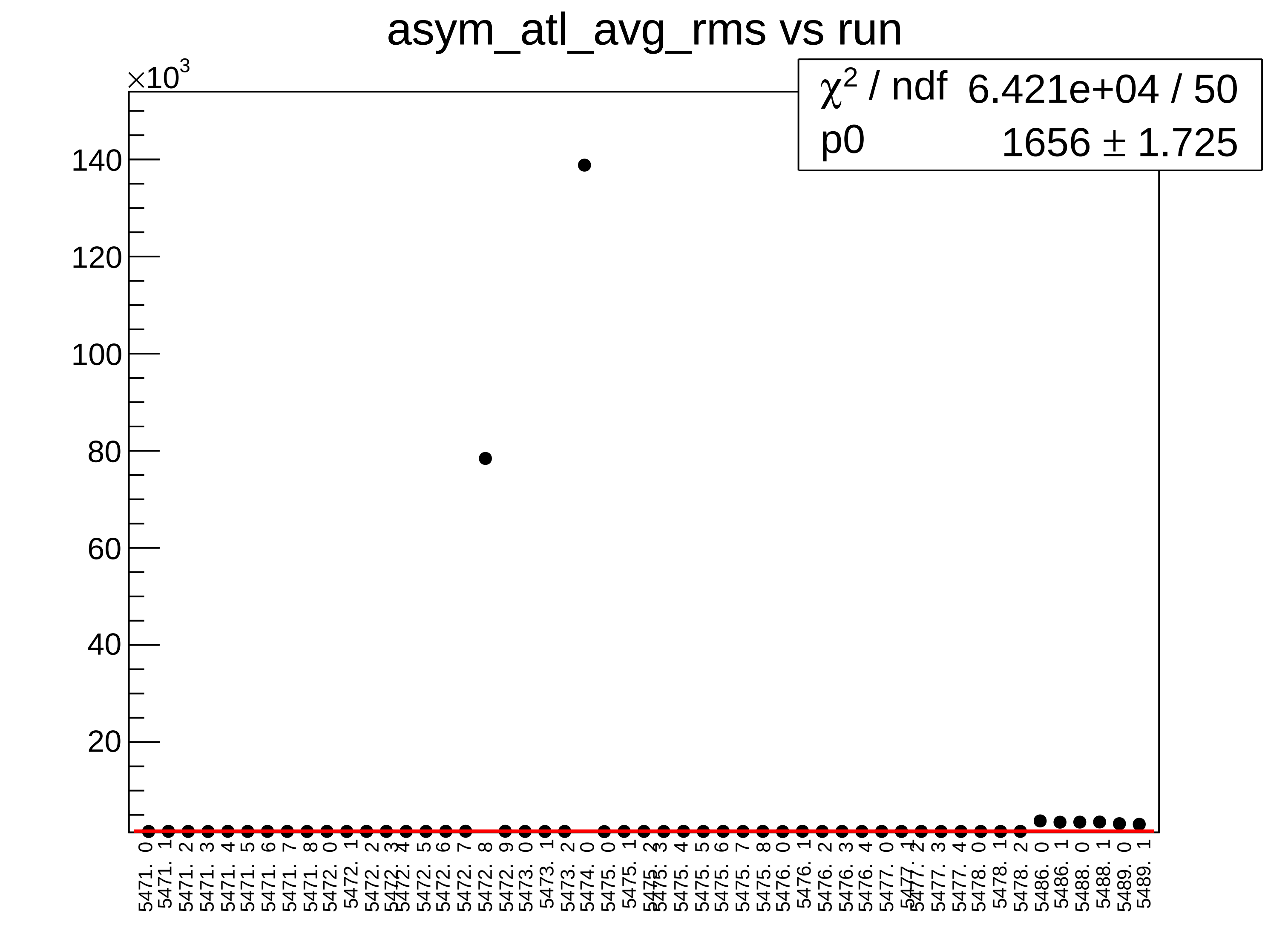
asym_atl_avg_correction_mean vs run
χ^2 / ndf 54.05 / 50
p0 −180.9 ± 641.2
pull
Entries 51
Mean 46.29
Std Dev 26.05
pull1D
Entries 51
Mean −0.03044
Std Dev 1.029



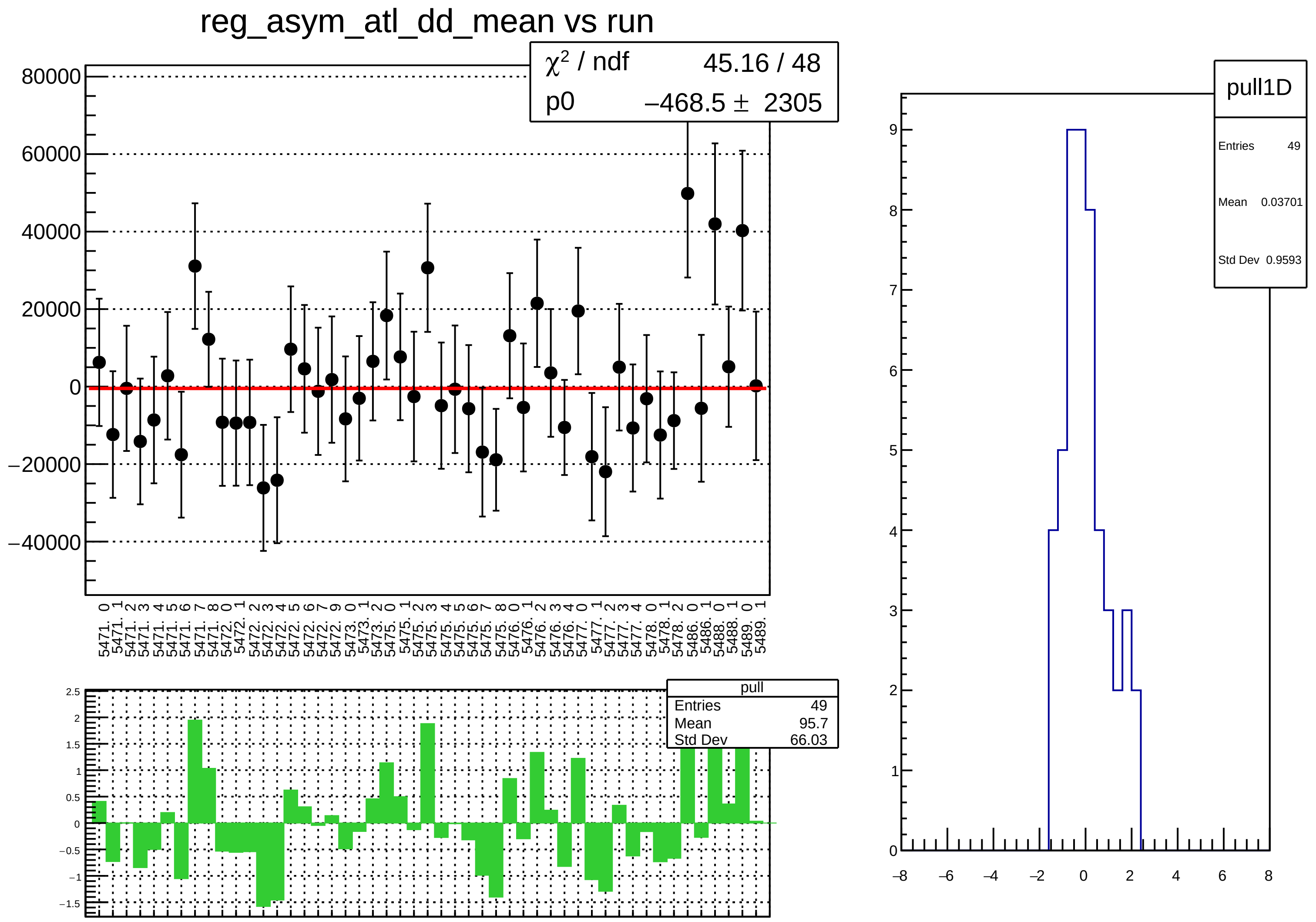
asym_atl_avg_correction_rms vs run
χ^2 / ndf 1.204e+05 / 50
p0 421.6 ± 0.4534
3500
3000
2500
2000
1500
1000
500



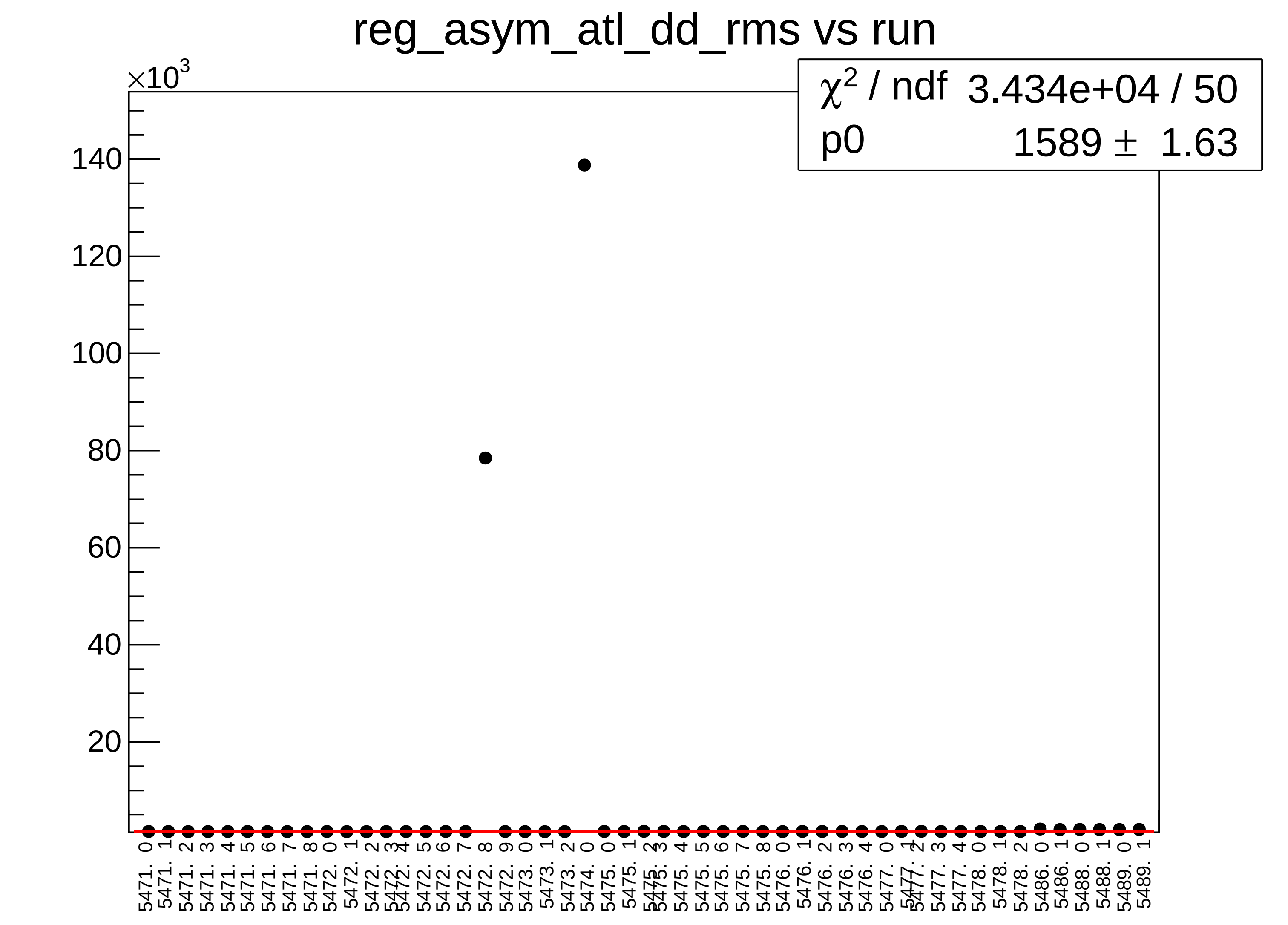
asym_atl_avg_mean vs run
$\times 10^3$
χ^2 / ndf 53.15 / 48
p0 3188 ± 2440
pull
Entries 49
Mean 489.4
Std Dev 467.4
pull1D
Entries 49
Mean 0.006004
Std Dev 1.041



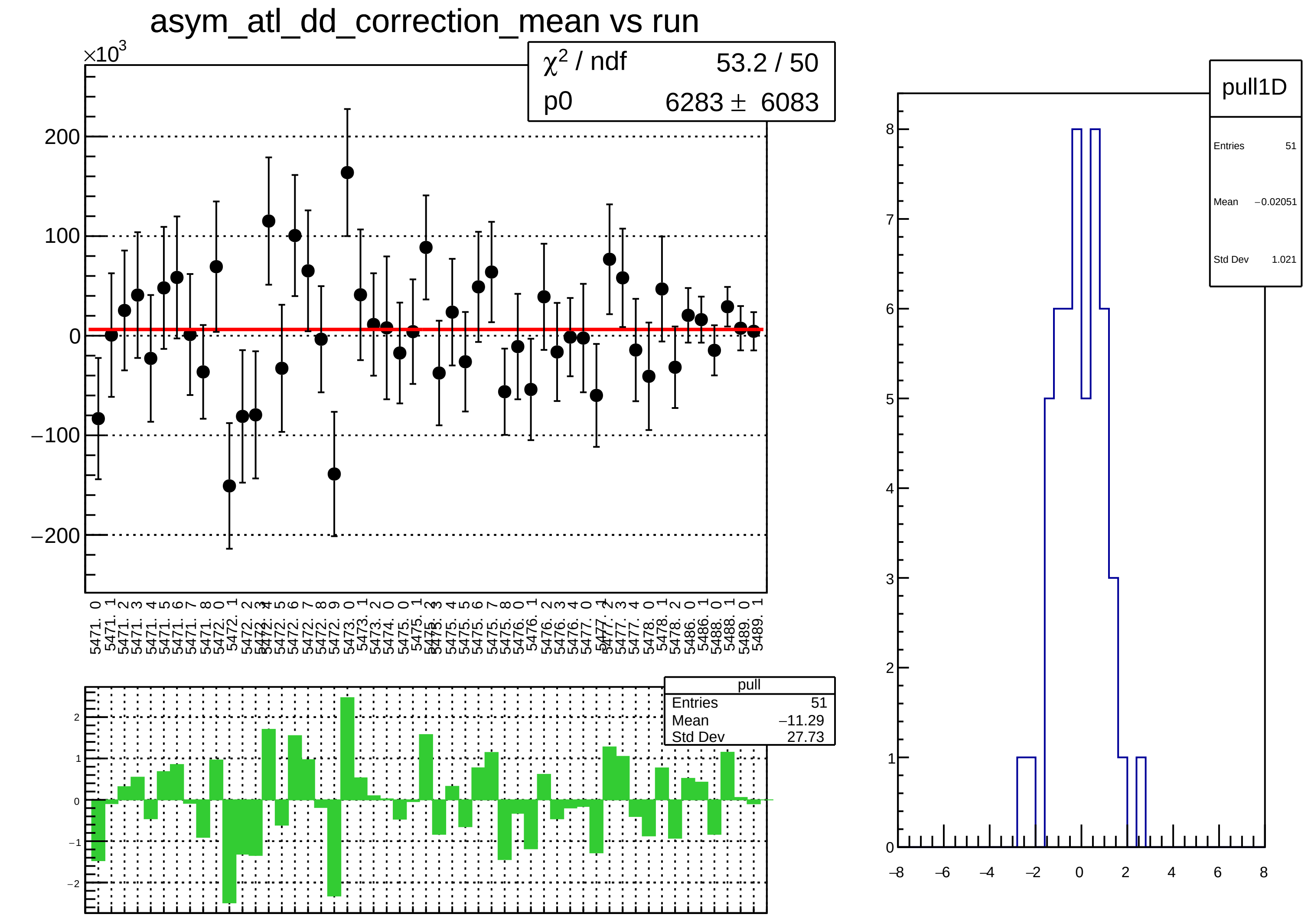
asym_atl_avg_rms vs run
×10^3
χ2 / ndf 6.421e+04 / 50
p0 1656 ± 1.725
140
120
100
80
60
40
20



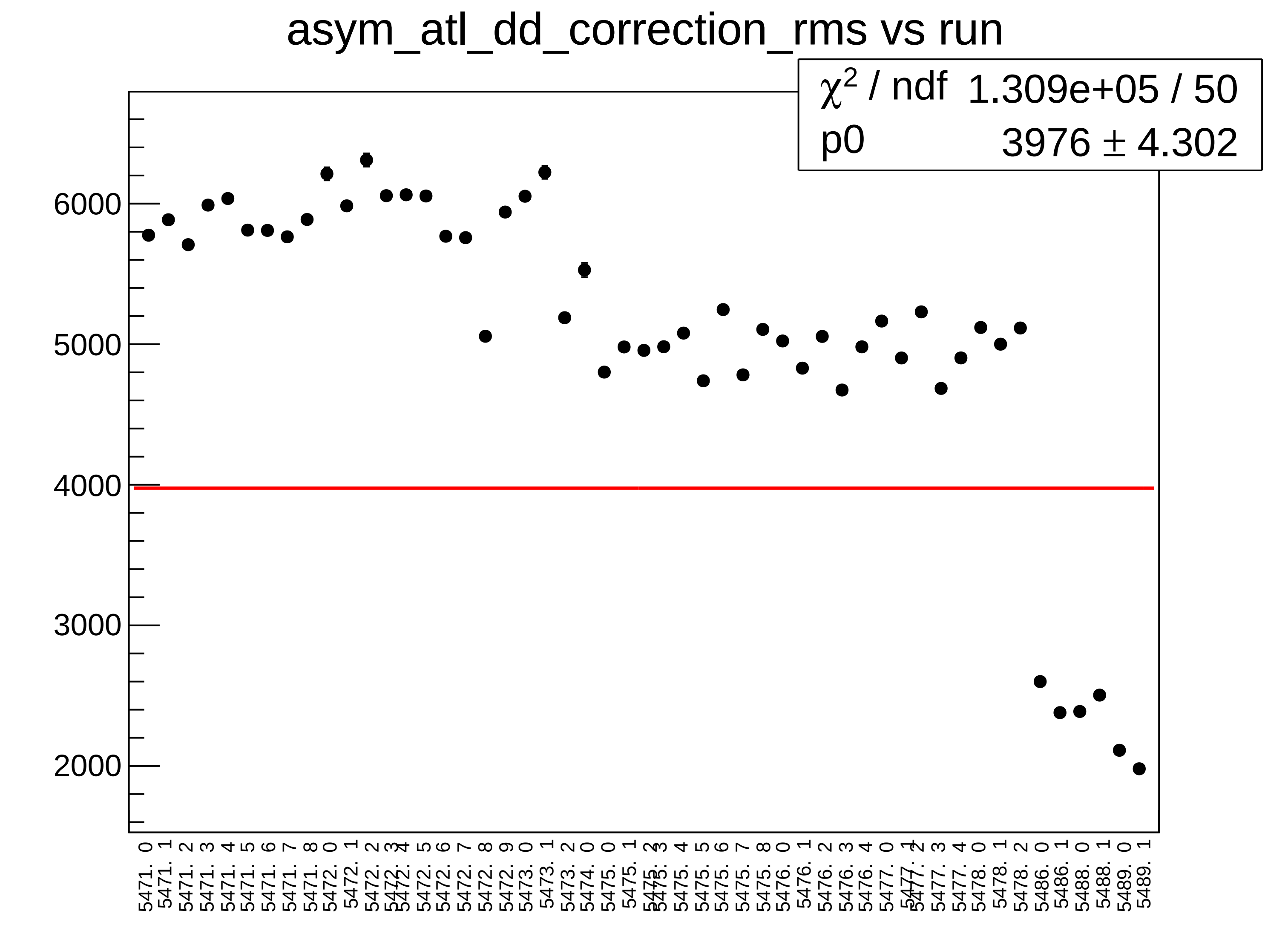
reg_asym_atl_dd_mean vs run
χ^2 / ndf 45.16 / 48
p0 −468.5 ± 2305
pull
Entries 49
Mean 95.7
Std Dev 66.03
pull1D
Entries 49
Mean 0.03701
Std Dev 0.9593



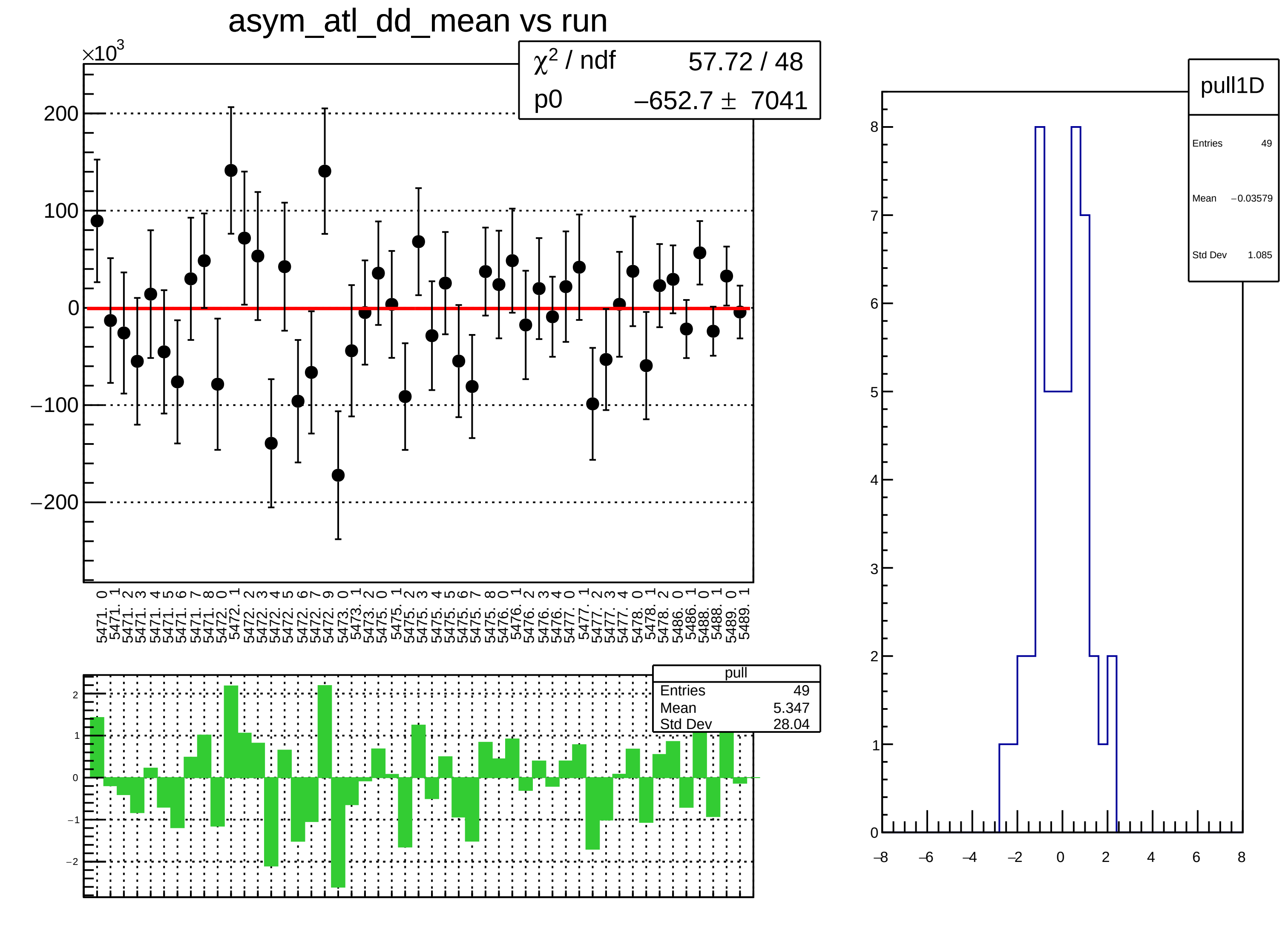
reg_asym_atl_dd_rms vs run
×10^3
χ^2 / ndf 3.434e+04 / 50
p0 1589 ± 1.63
140
120
100
80
60
40
20



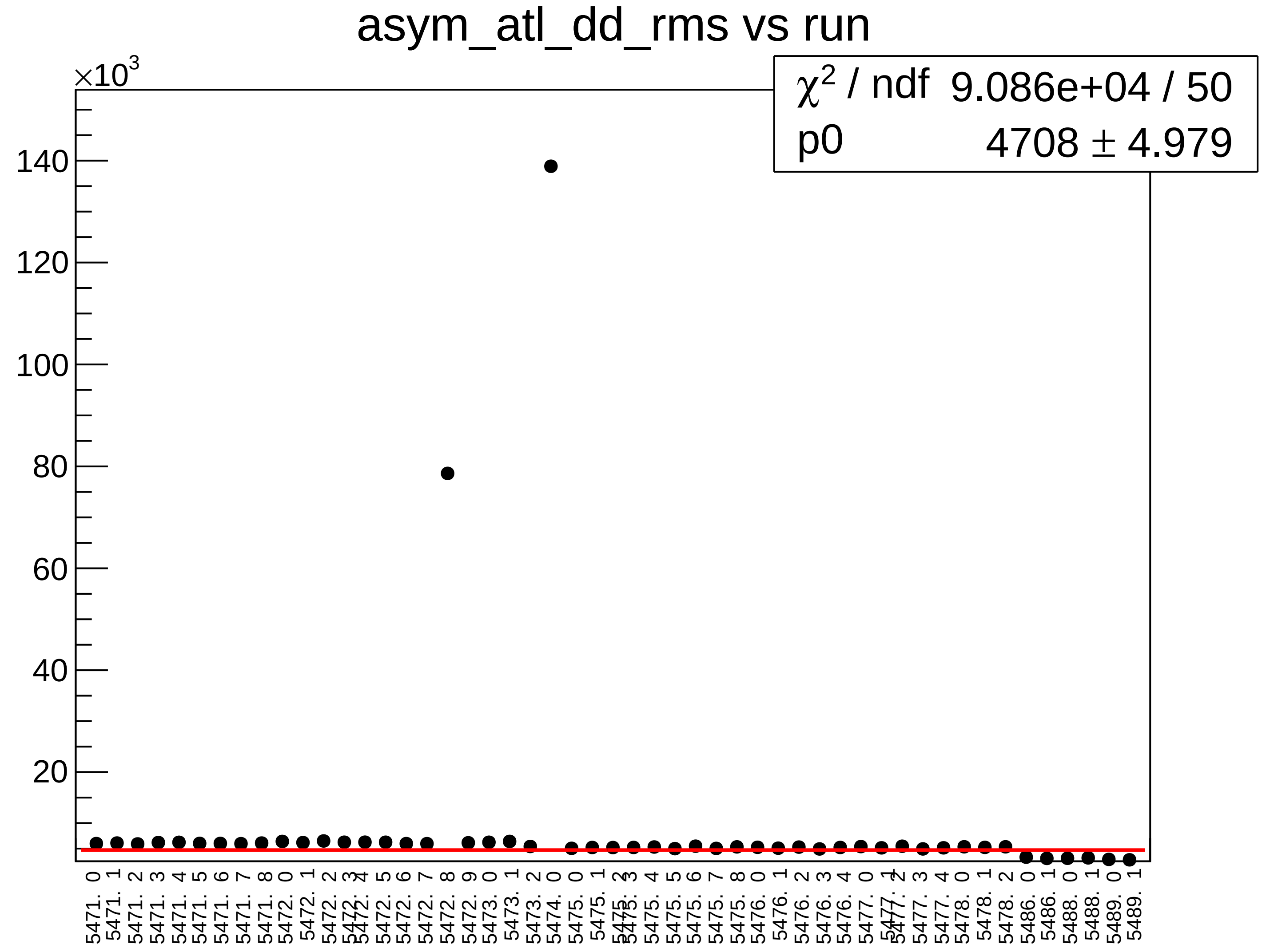
asym_atl_dd_correction_mean vs run
χ^2 / ndf 53.2 / 50
p0 6283 ± 6083
×10^3
pull
Entries 51
Mean −11.29
Std Dev 27.73
pull1D
Entries 51
Mean −0.02051
Std Dev 1.021



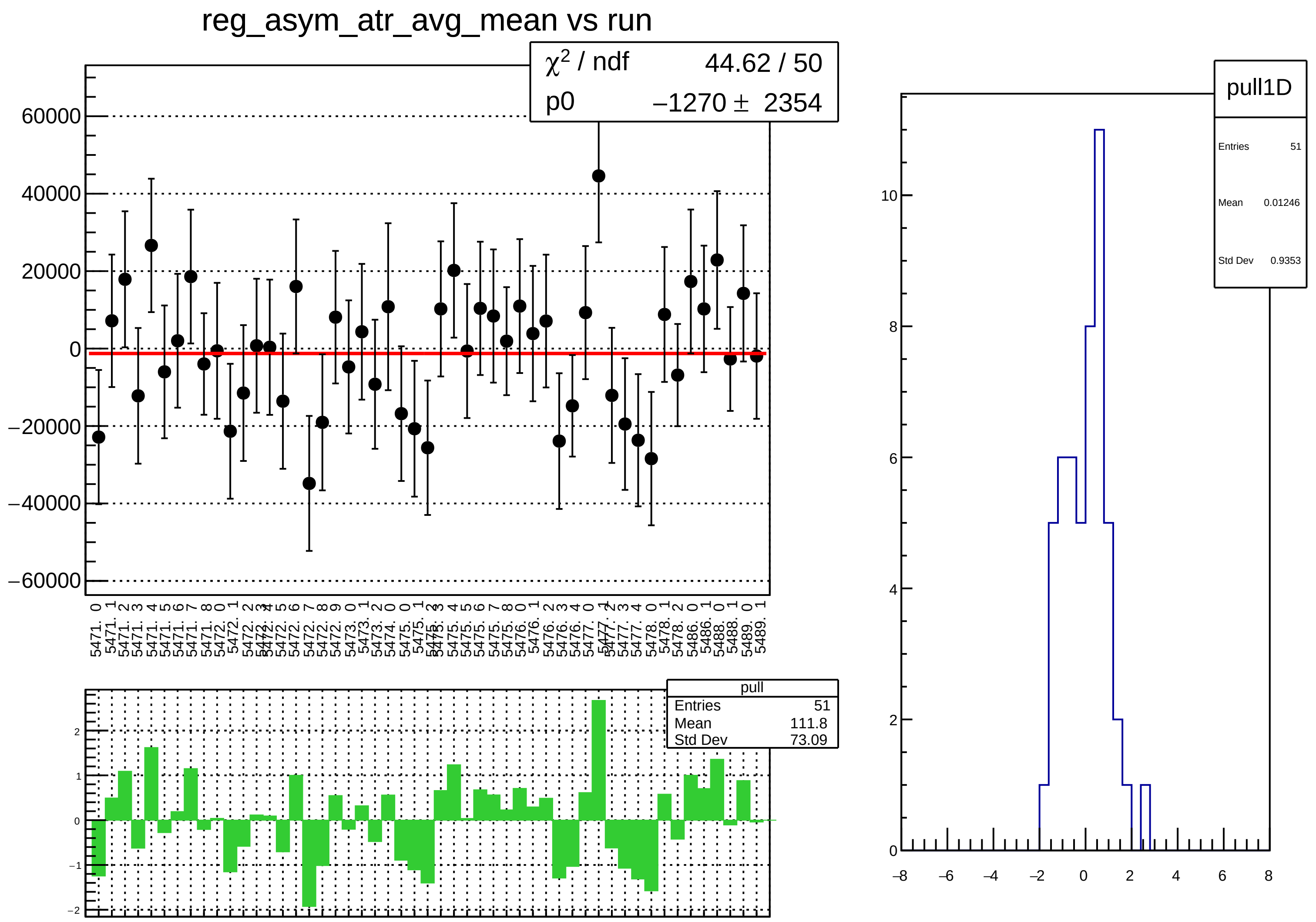
asym_atl_dd_correction_rms vs run
χ^2 / ndf 1.309e+05 / 50
p0 3976 ± 4.302
6000
5000
4000
3000
2000



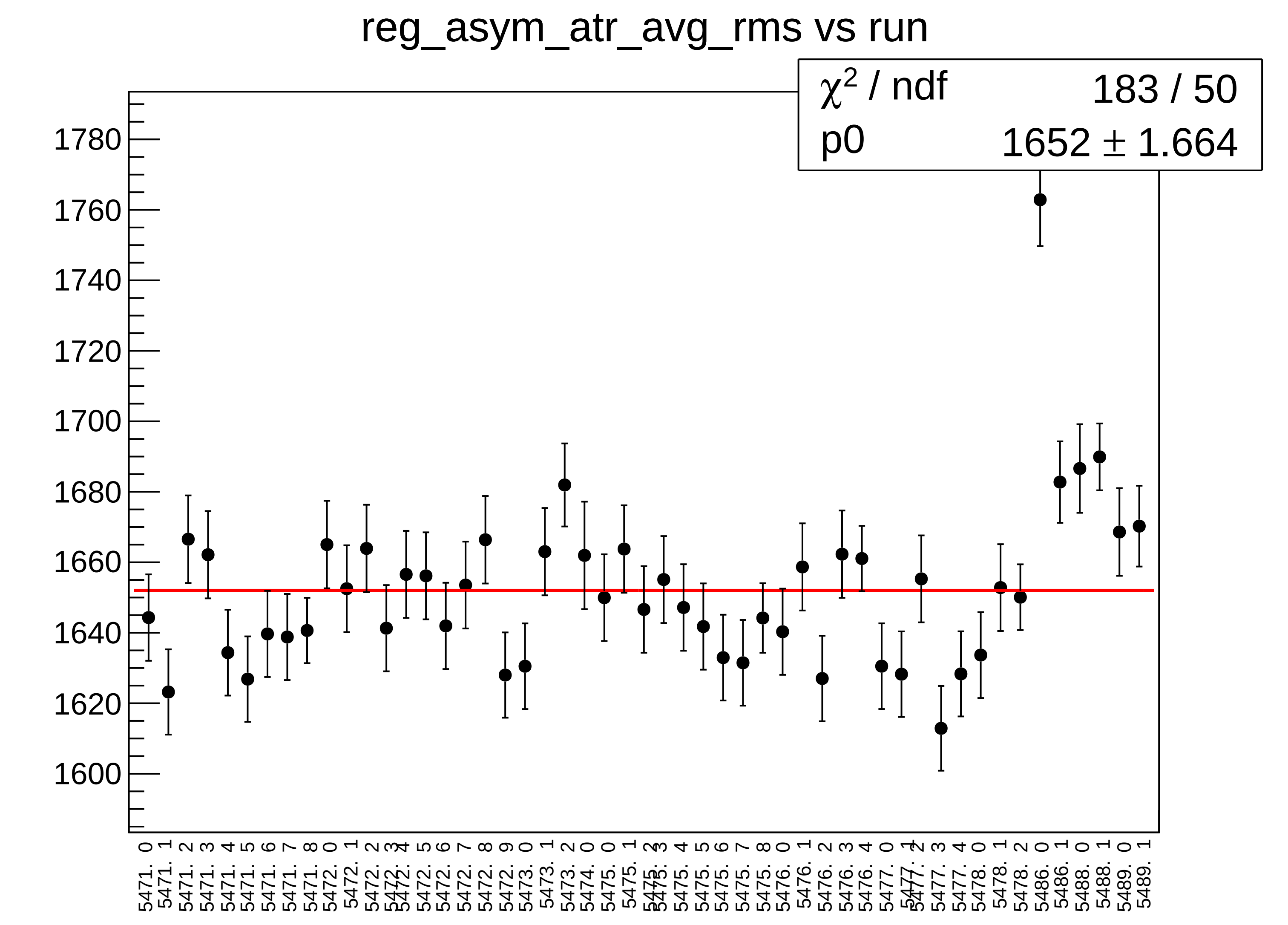
asym_atl_dd_mean vs run
×10^3
χ2 / ndf 57.72 / 48
p0 −652.7 ± 7041
pull
Entries 49
Mean 5.347
Std Dev 28.04
pull1D
Entries 49
Mean −0.03579
Std Dev 1.085



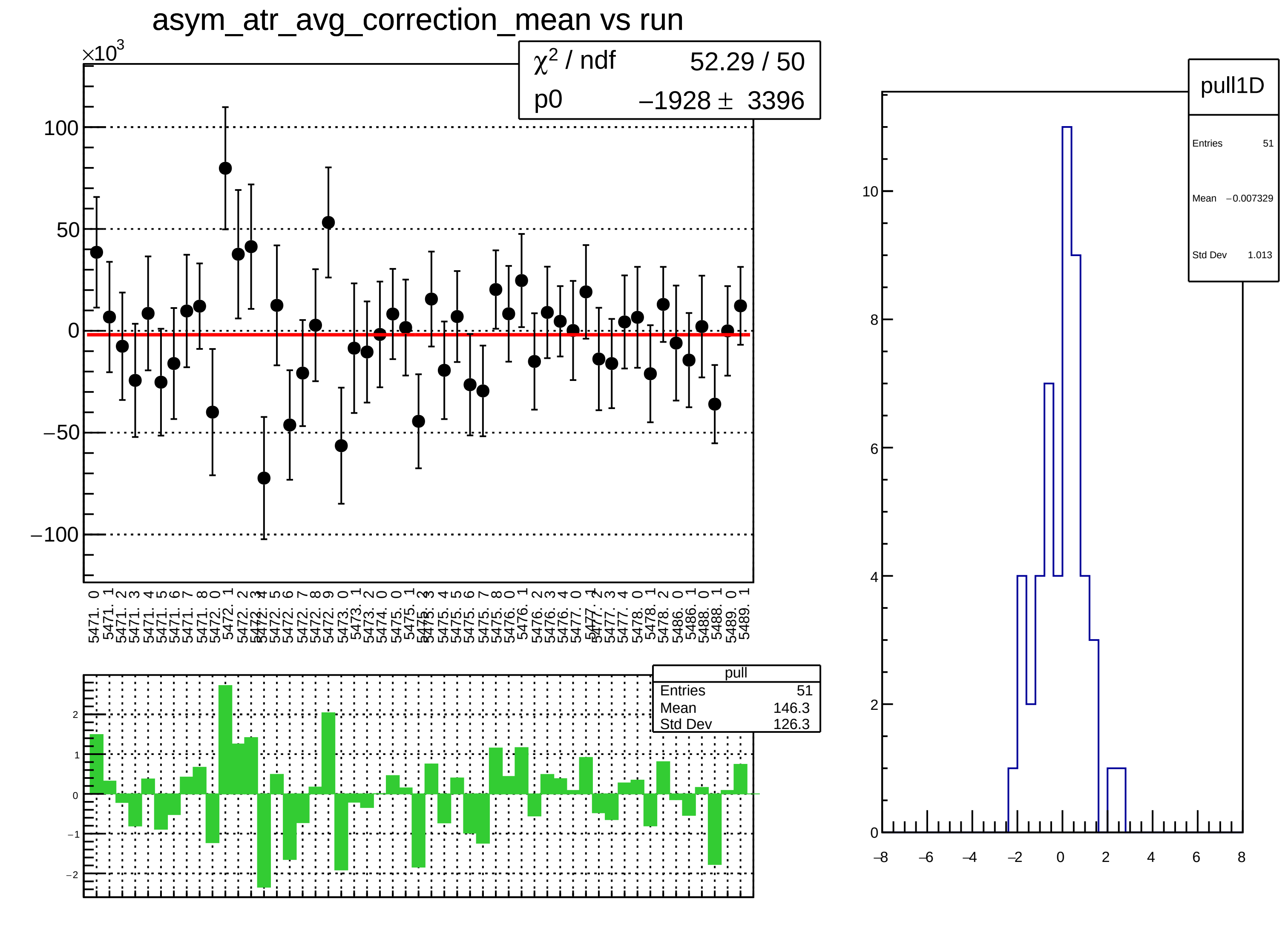
asym_atl_dd_rms vs run
×10^3
χ2 / ndf 9.086e+04 / 50
p0 4708 ± 4.979
140
120
100
80
60
40
20



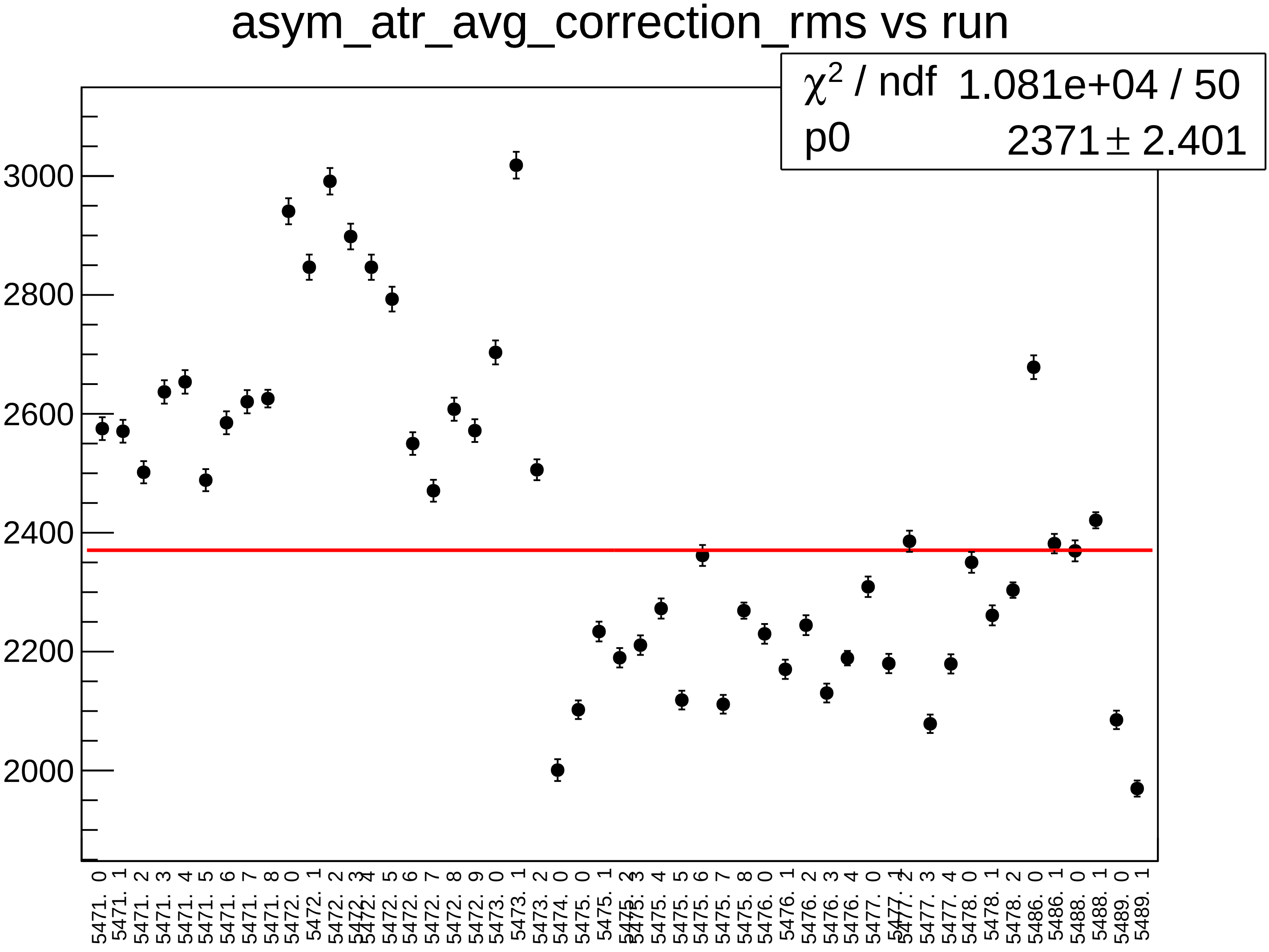
reg_asym_atr_avg_mean vs run
χ2 / ndf 44.62 / 50
p0 −1270 ± 2354
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 111.8
Std Dev 73.09
pull1D
Entries 51
Mean 0.01246
Std Dev 0.9353



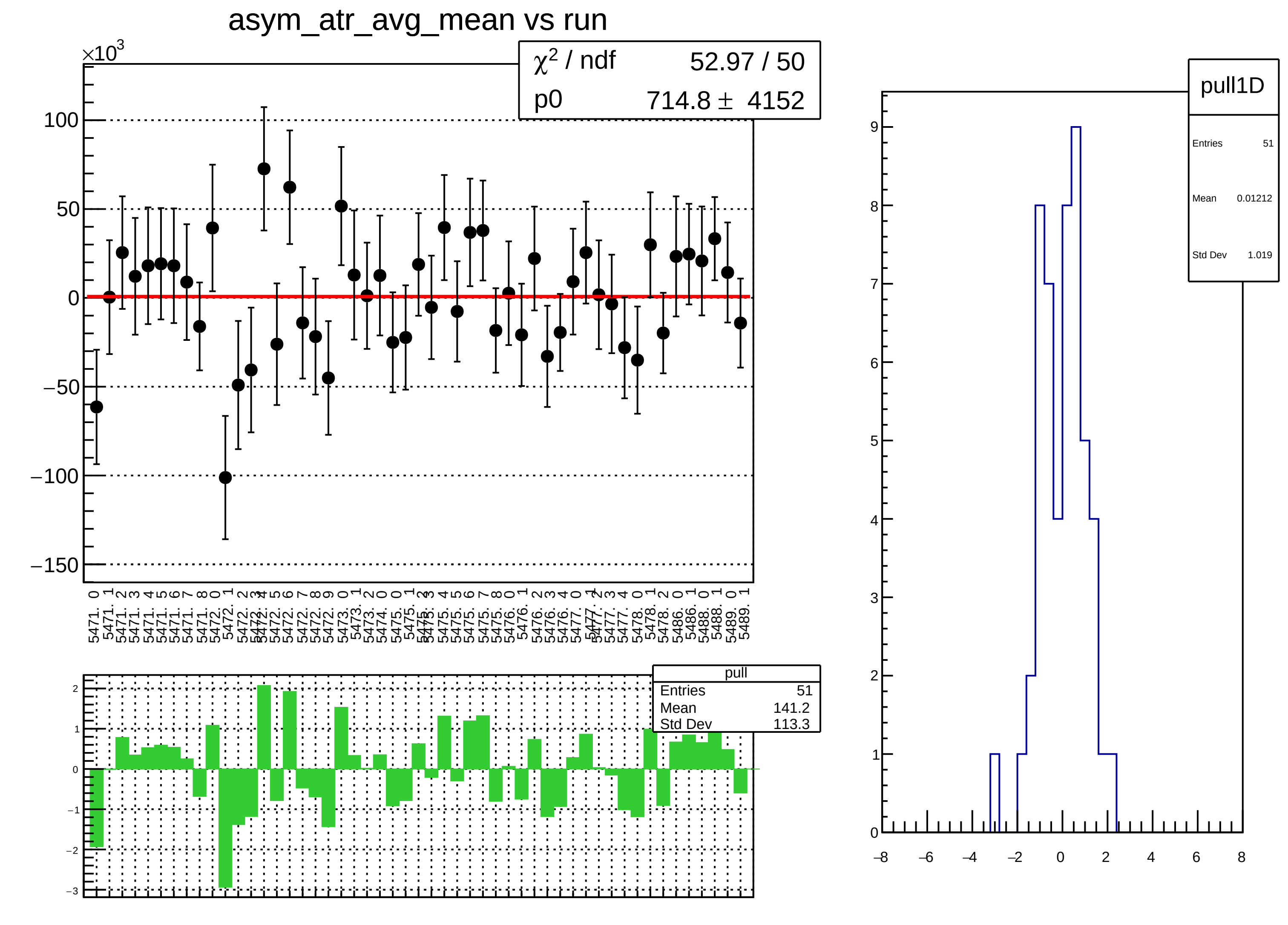
reg_asym_atr_avg_rms vs run
χ^2 / ndf 183 / 50
p0 1652 ± 1.664
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600



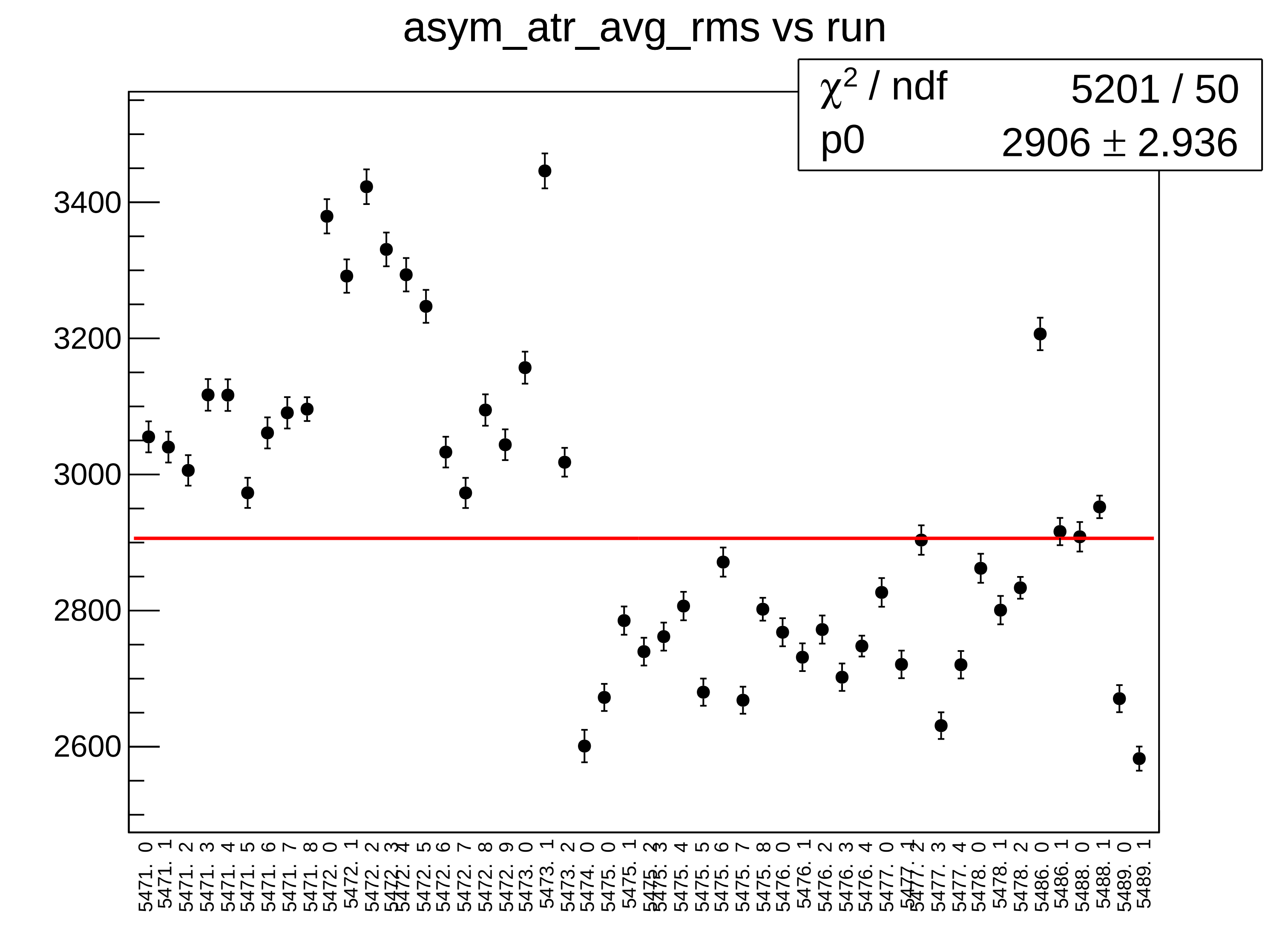
asym_atr_avg_correction_mean vs run
χ^2 / ndf 52.29 / 50
p0 −1928 ± 3396
×10^3
pull
Entries 51
Mean 146.3
Std Dev 126.3
pull1D
Entries 51
Mean −0.007329
Std Dev 1.013

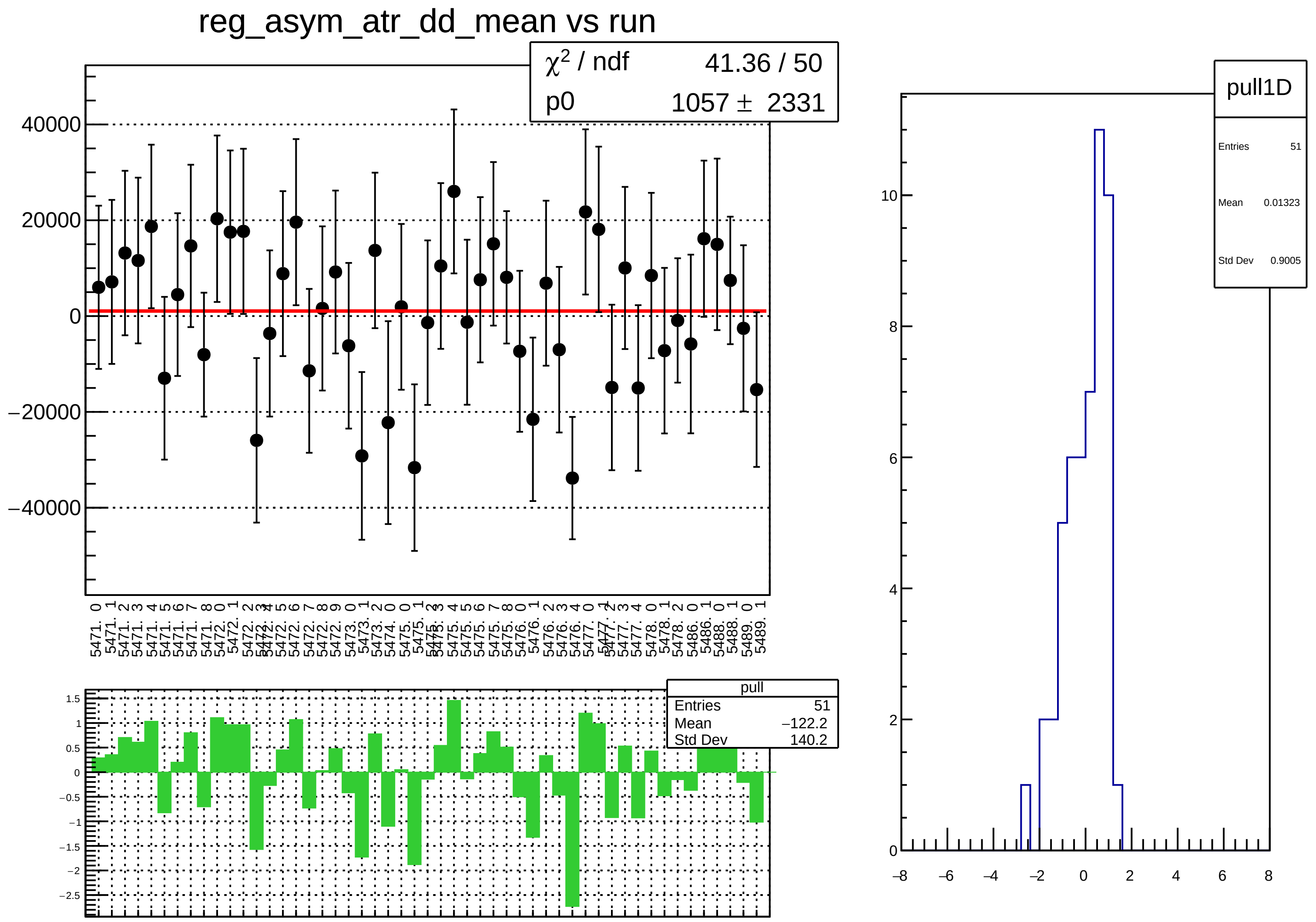


asym_atr_avg_correction_rms vs run
χ^2 / ndf 1.081e+04 / 50
p0 2371 ± 2.401
3000
2800
2600
2400
2200
2000

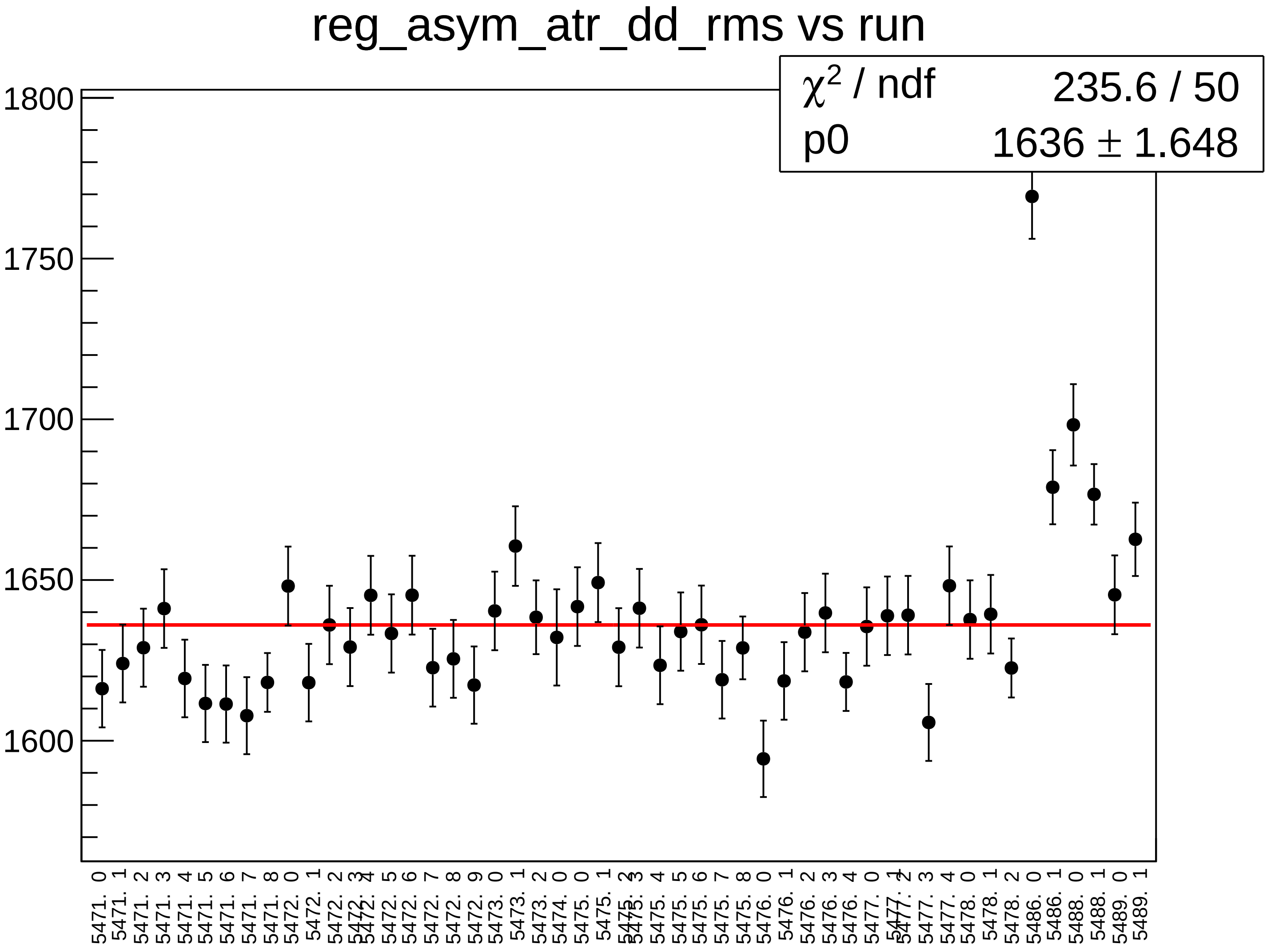


asym_atr_avg_mean vs run
χ2 / ndf 52.97 / 50
p0 714.8 ± 4152
×10^3
pull
Entries 51
Mean 141.2
Std Dev 113.3
pull1D
Entries 51
Mean 0.01212
Std Dev 1.019

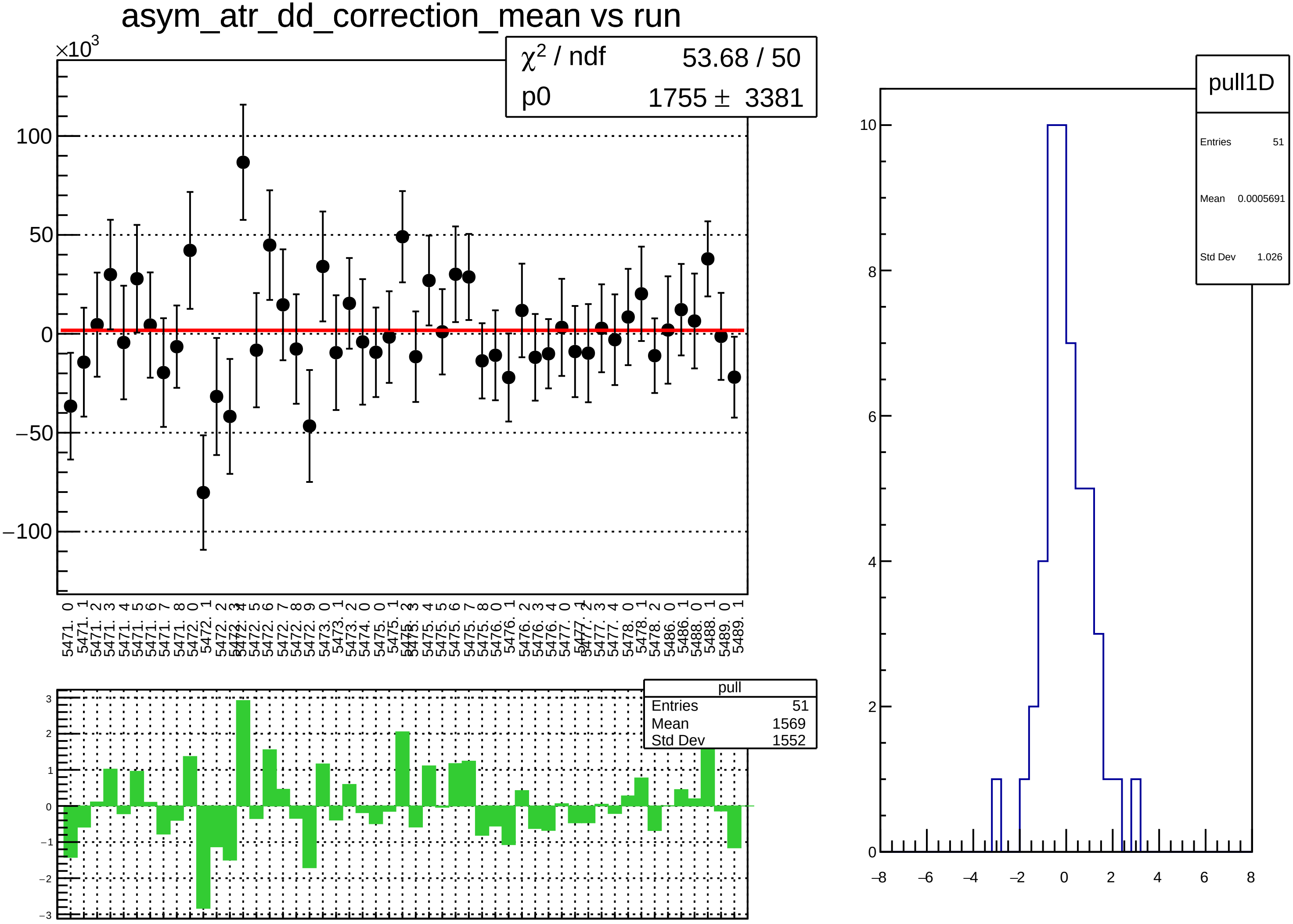

asym_atr_avg_rms vs run
χ2 / ndf 5201 / 50
p0 2906 ± 2.936
3400
3200
3000
2800
2600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



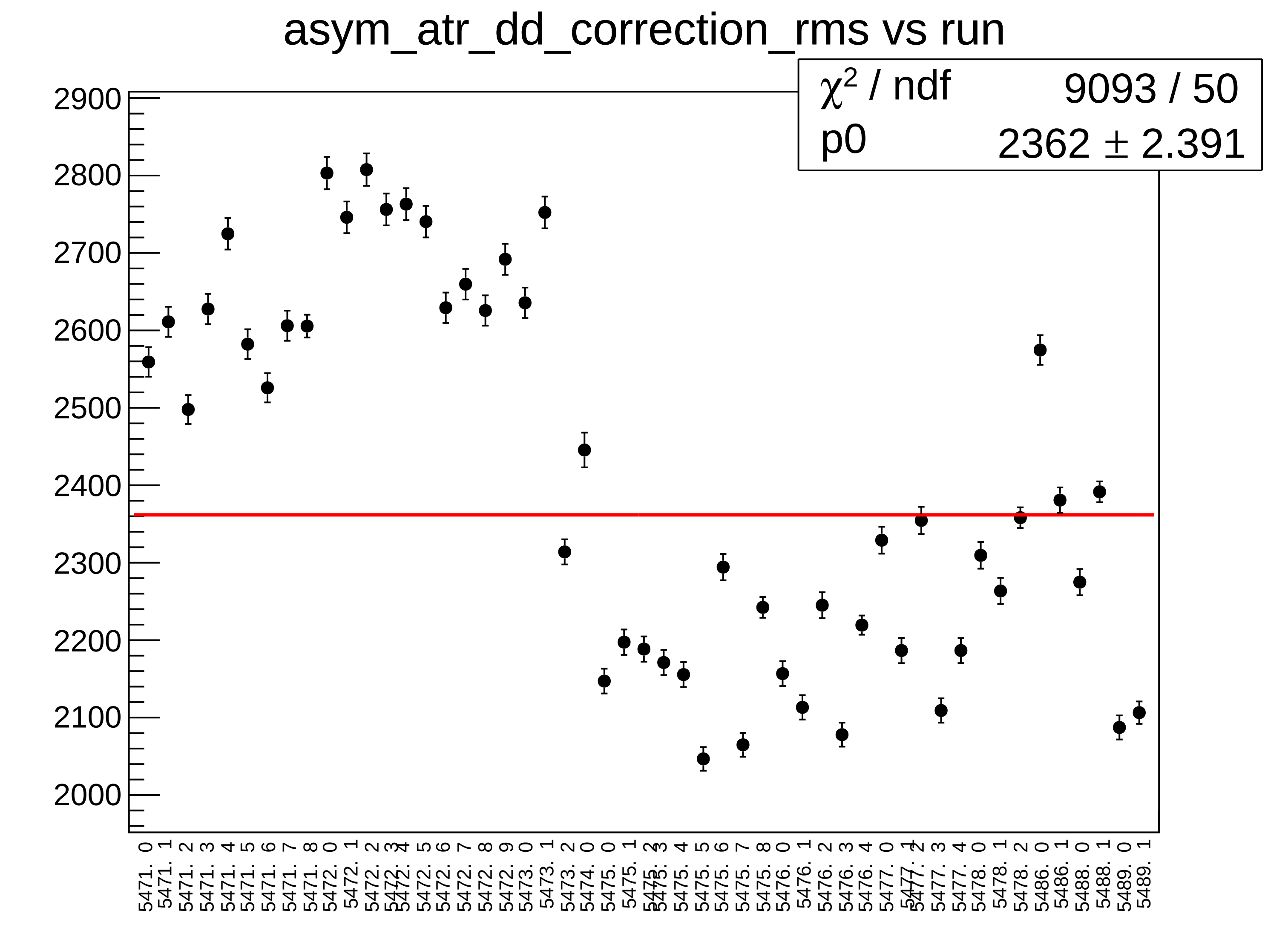
reg_asym_atr_dd_mean vs run
χ^2 / ndf 41.36 / 50
p0 1057 ± 2331
pull
Entries 51
Mean −122.2
Std Dev 140.2
pull1D
Entries 51
Mean 0.01323
Std Dev 0.9005



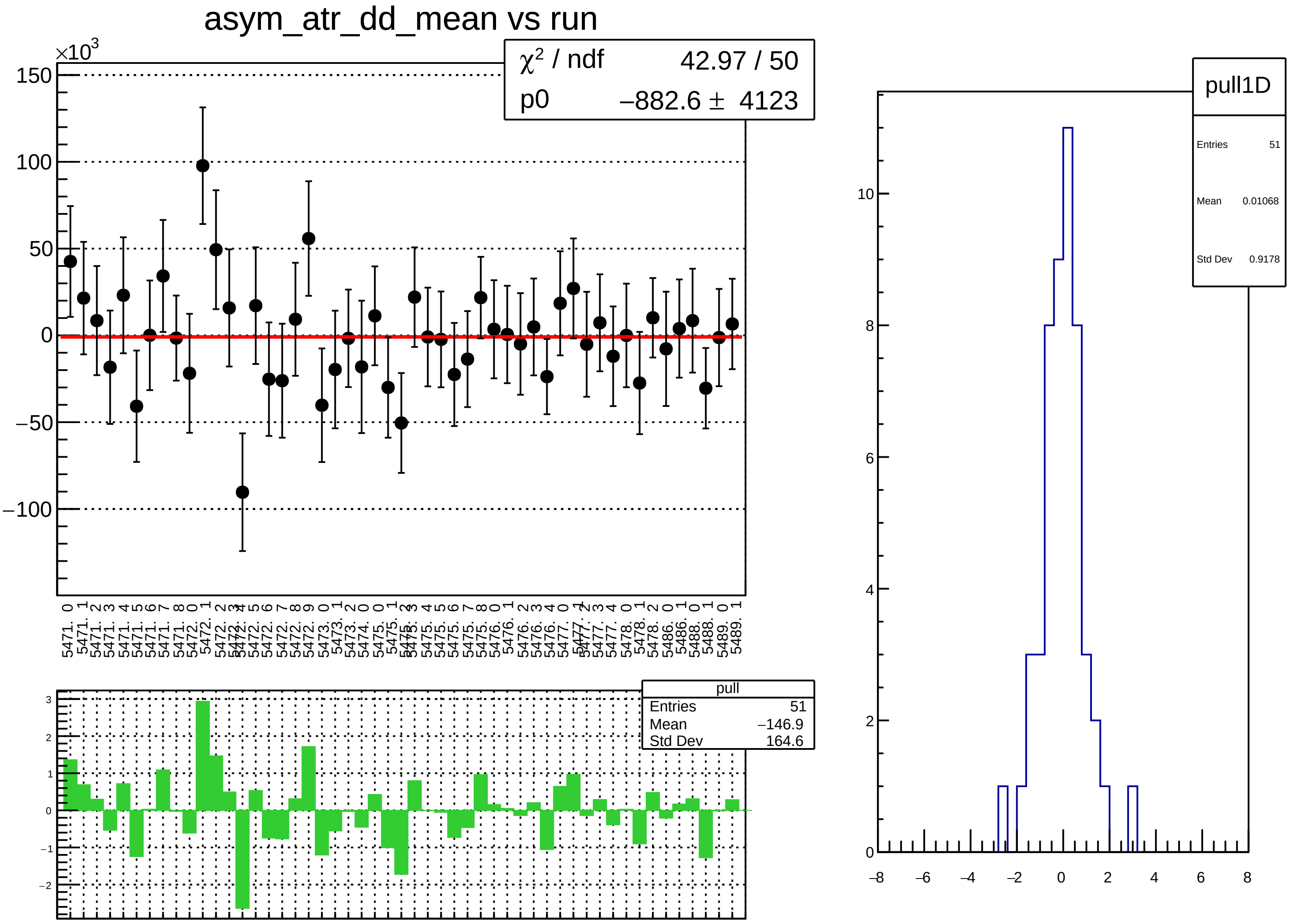
reg_asym_atr_dd_rms vs run
χ2 / ndf 235.6 / 50
p0 1636 ± 1.648
1800
1750
1700
1650
1600



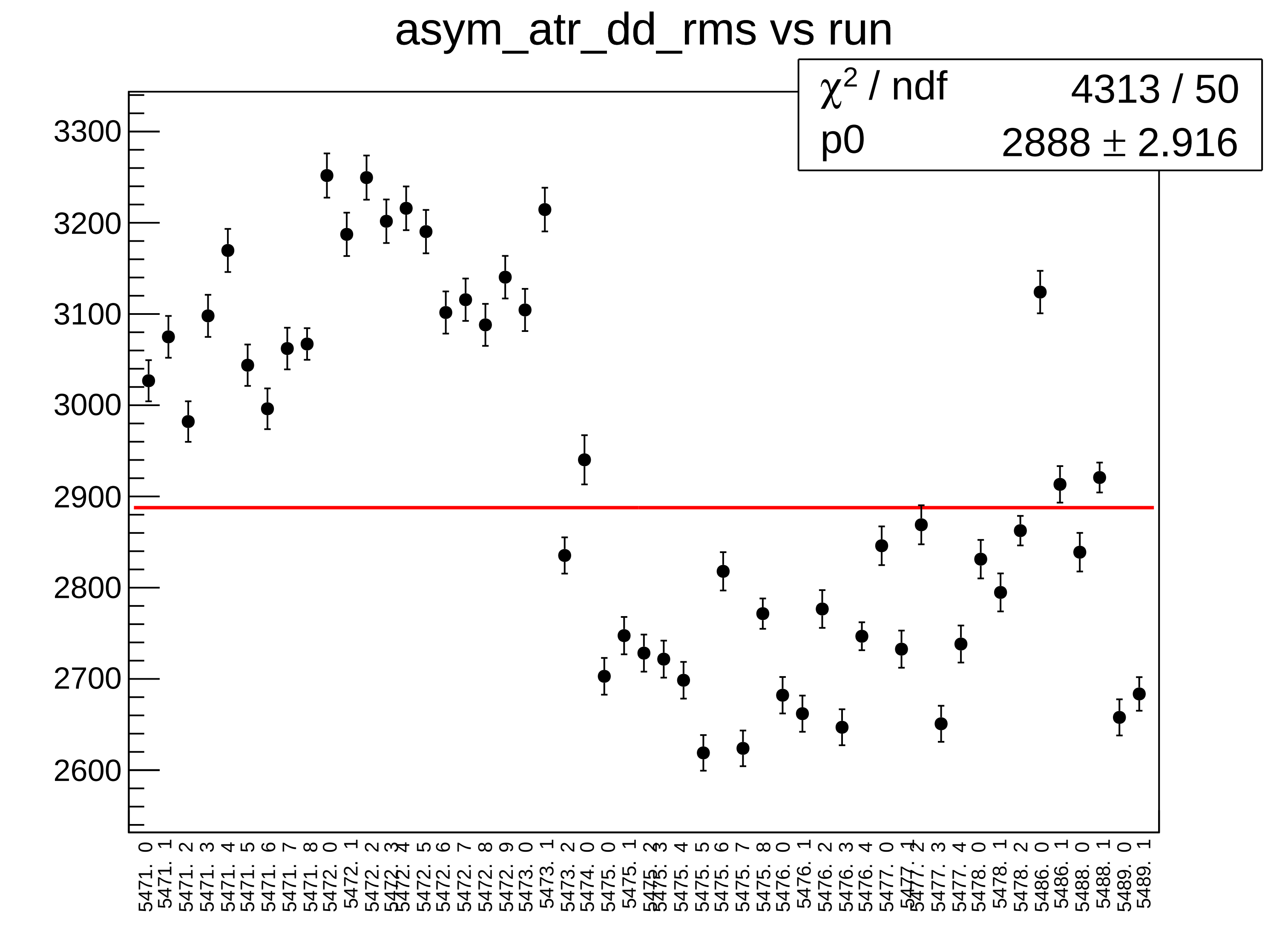
asym_atr_dd_correction_mean vs run
$\times 10^3$
χ^2 / ndf 53.68 / 50
p0 1755 ± 3381
pull
Entries 51
Mean 1569
Std Dev 1552
pull1D
Entries 51
Mean 0.0005691
Std Dev 1.026



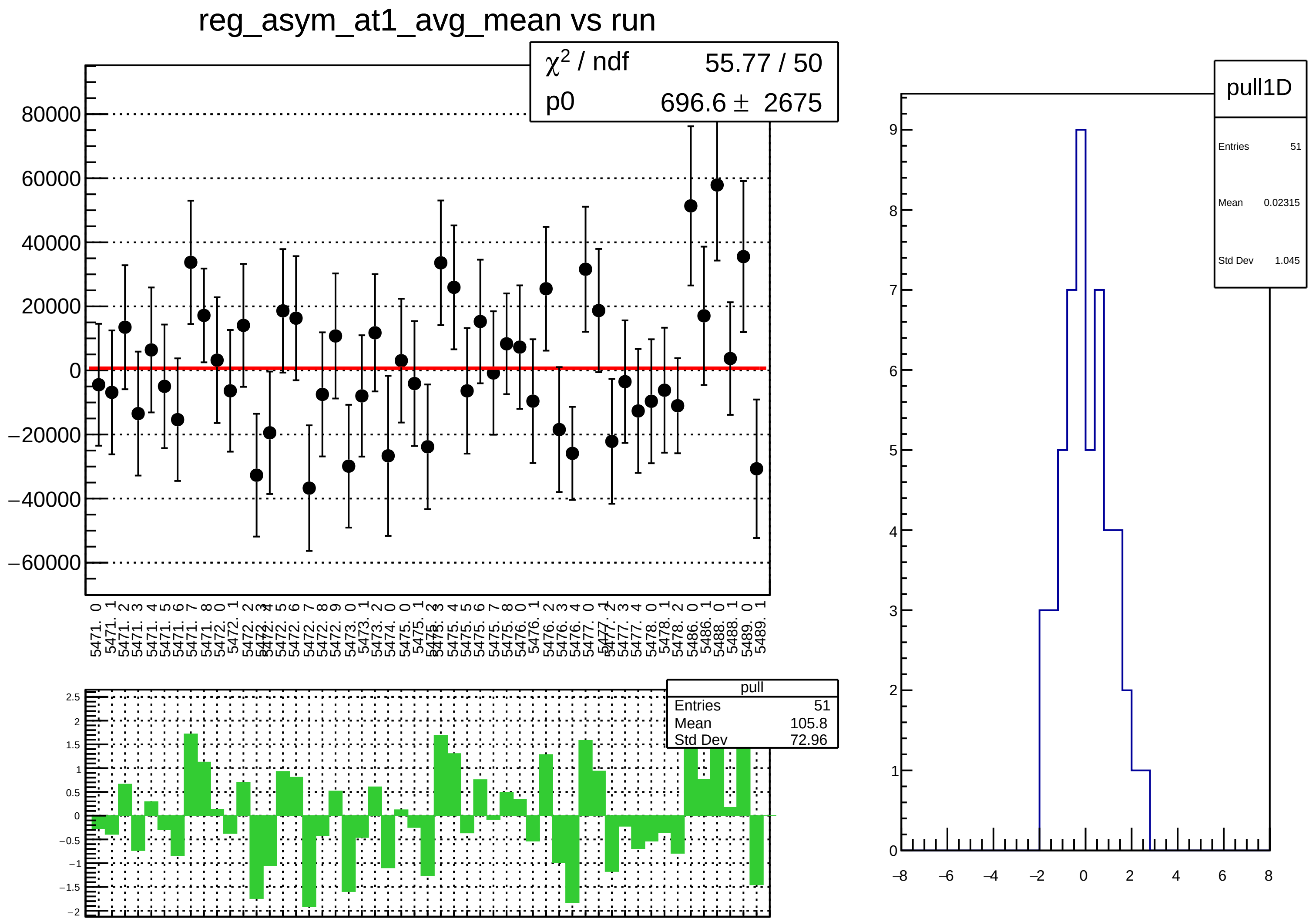
asym_atr_dd_correction_rms vs run
χ^2 / ndf 9093 / 50
p0 2362 ± 2.391
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000



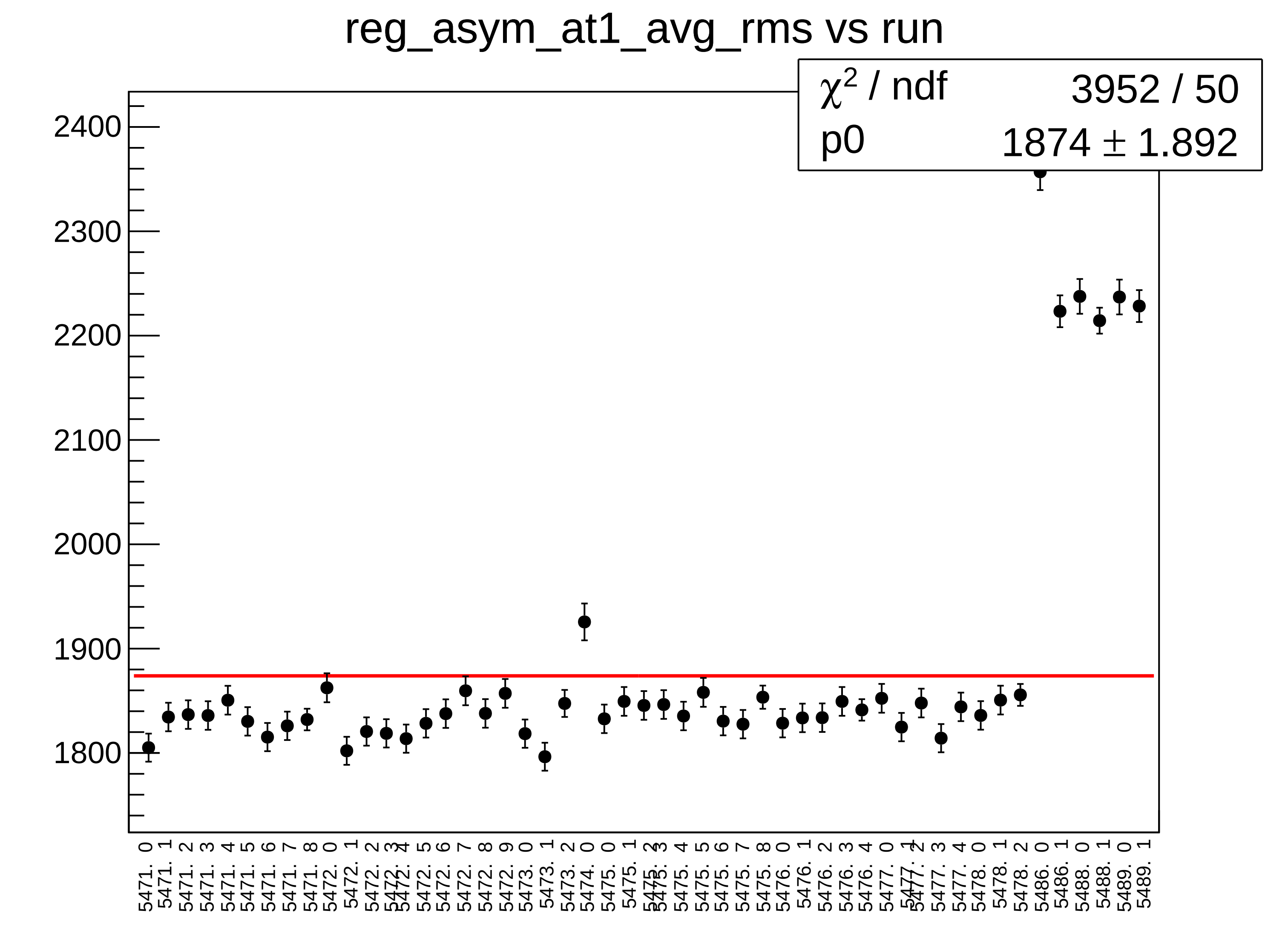
asym_atr_dd_mean vs run
×10^3
χ2 / ndf 42.97 / 50
p0 −882.6 ± 4123
pull
Entries 51
Mean −146.9
Std Dev 164.6
pull1D
Entries 51
Mean 0.01068
Std Dev 0.9178



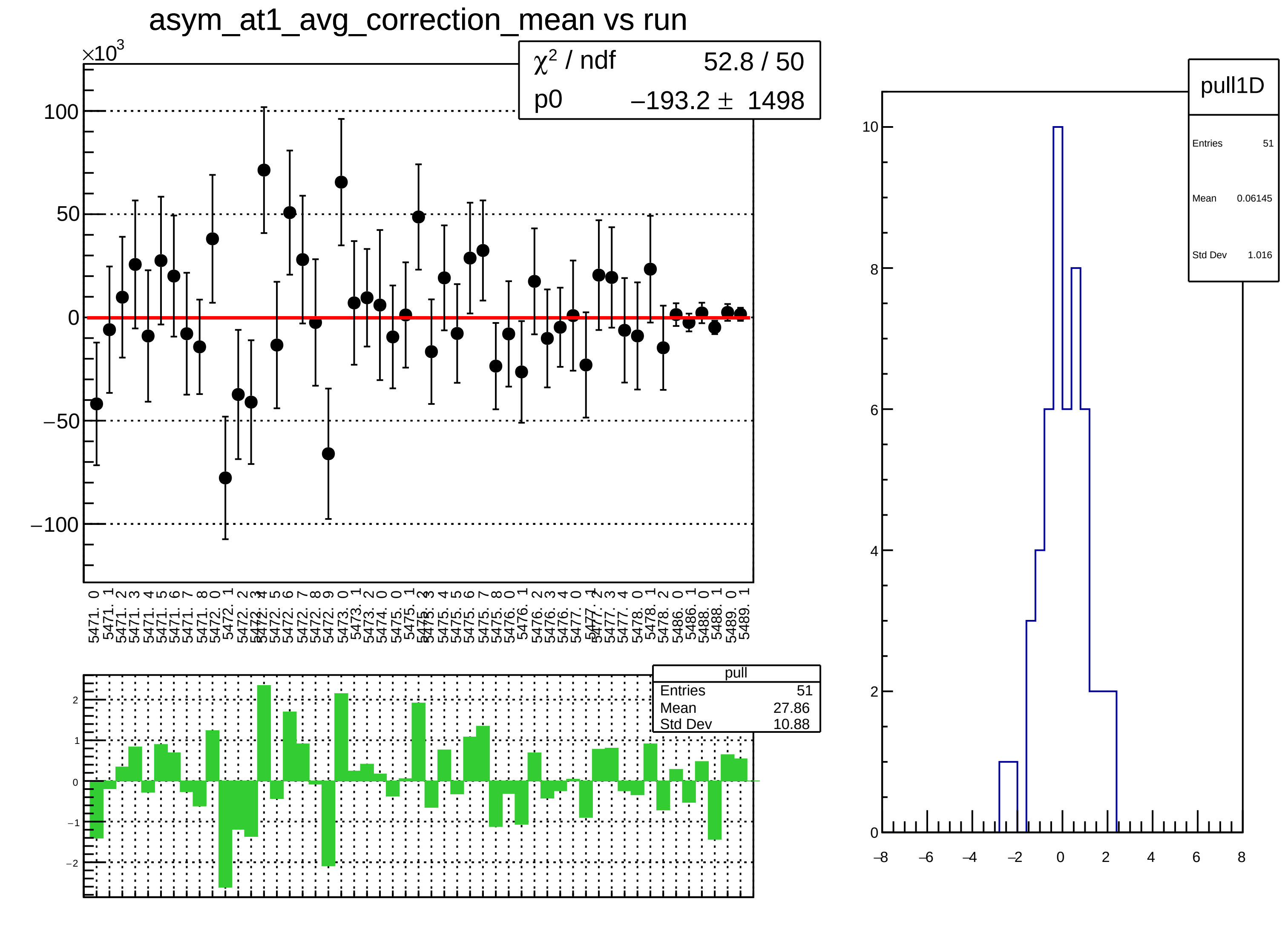
asym_atr_dd_rms vs run
χ² / ndf 4313 / 50
p0 2888 ± 2.916
3300
3200
3100
3000
2900
2800
2700
2600

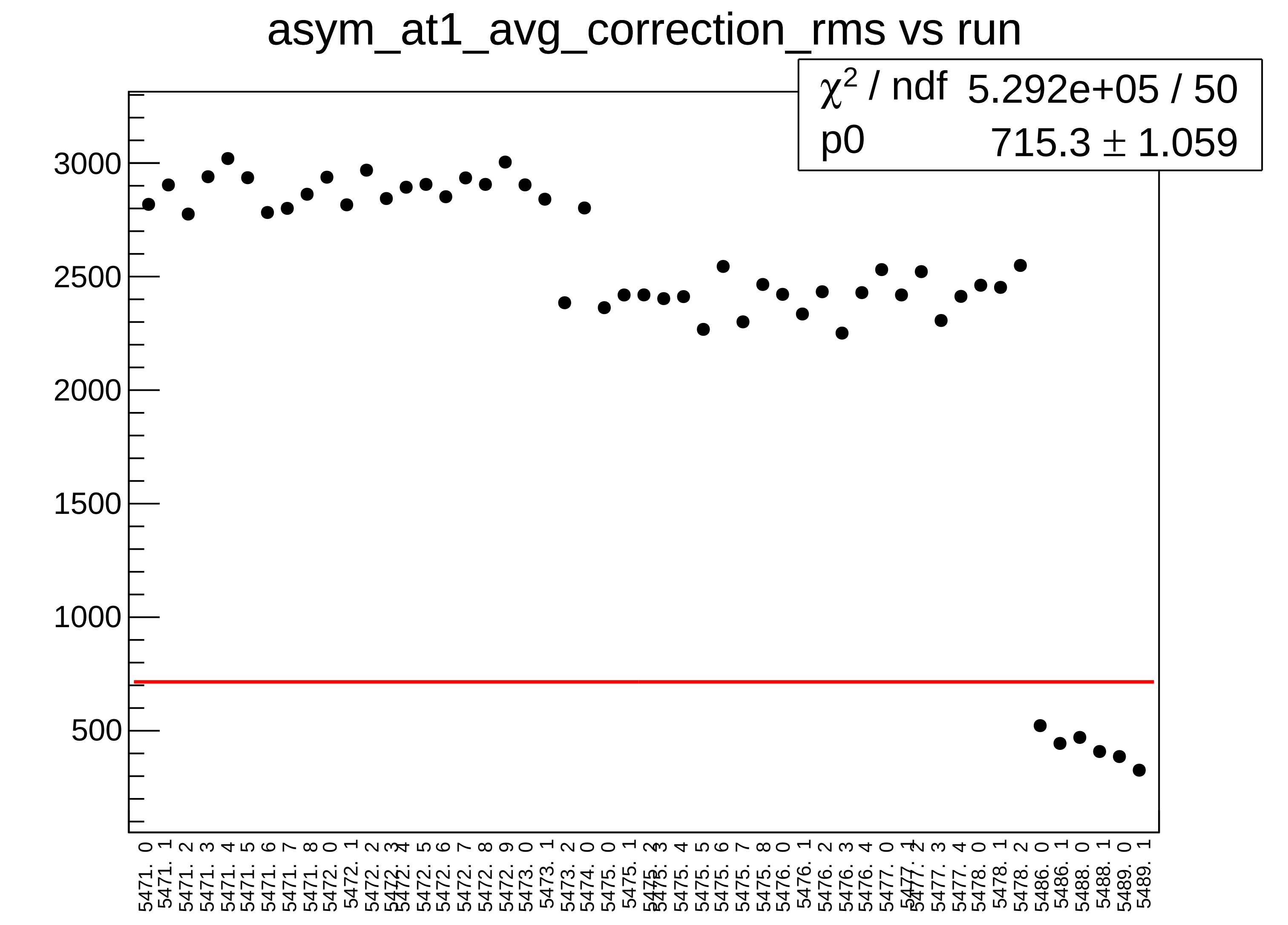


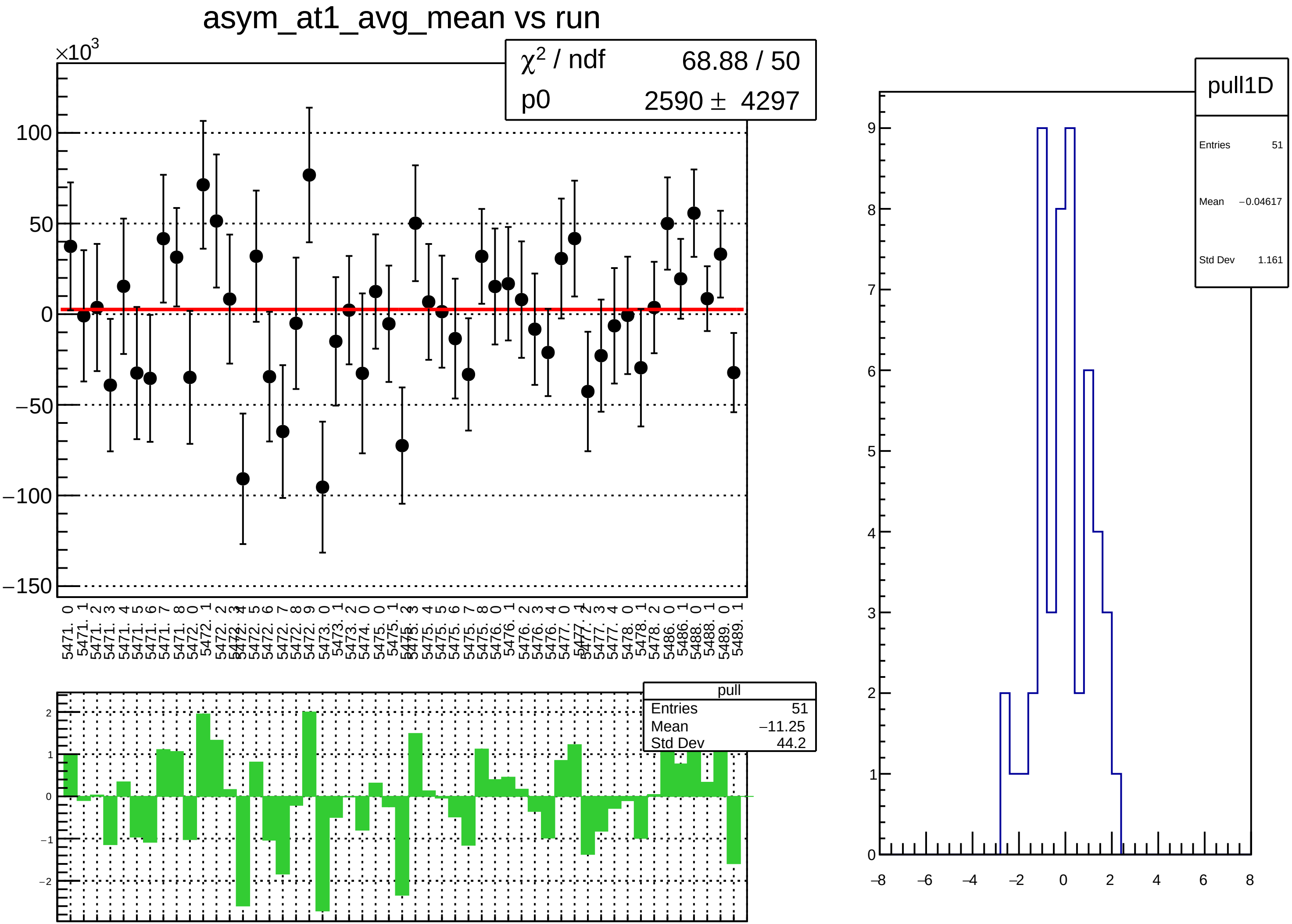
reg_asym_at1_avg_mean vs run
χ^2 / ndf 55.77 / 50
p0 696.6 ± 2675
pull
Entries 51
Mean 105.8
Std Dev 72.96
pull1D
Entries 51
Mean 0.02315
Std Dev 1.045

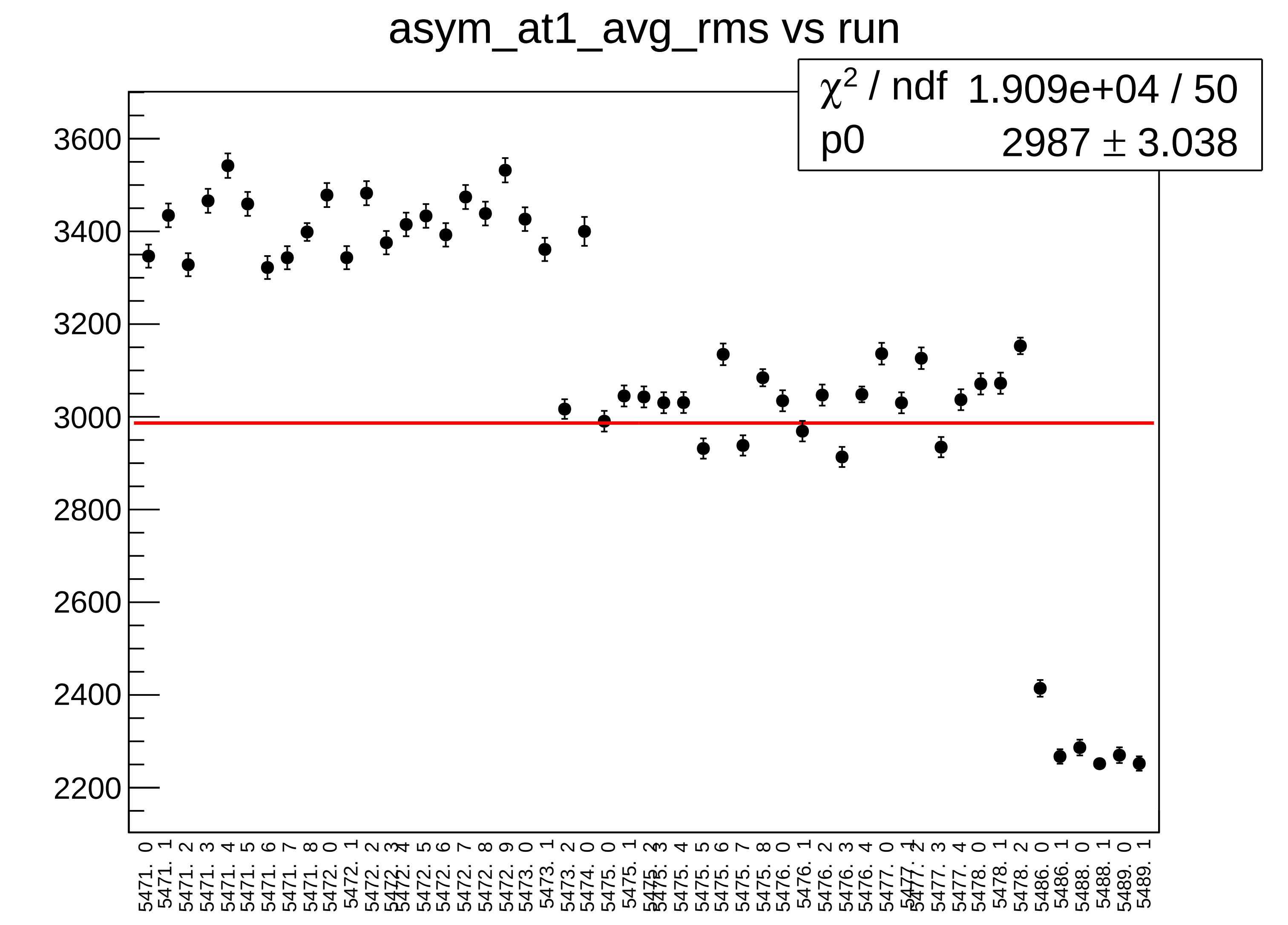


reg_asym_at1_avg_rms vs run
χ^2 / ndf 3952 / 50
p0 1874 ± 1.892
2400
2300
2200
2100
2000
1900
1800

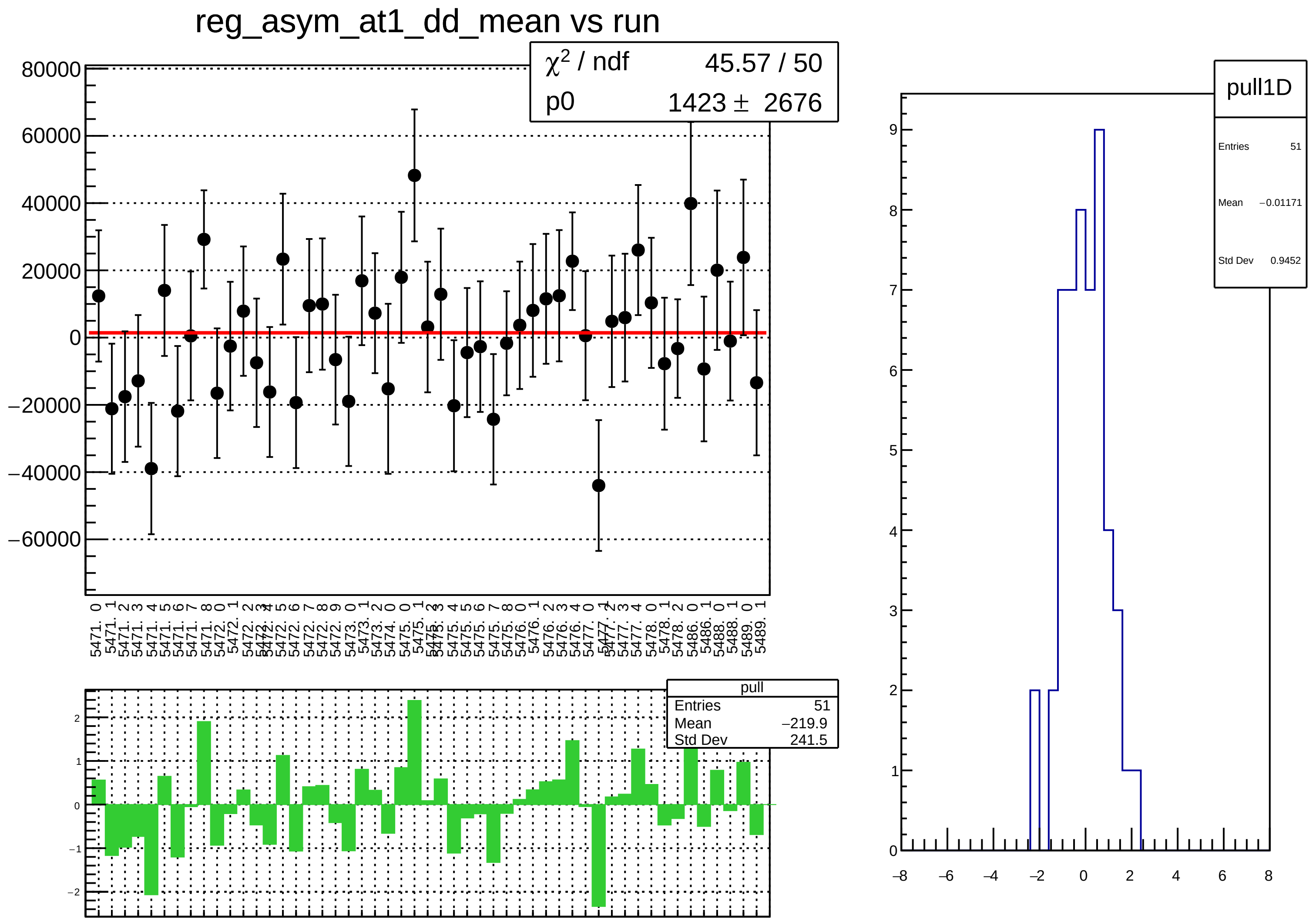

asym_at1_avg_correction_mean vs run
×10^3
χ2 / ndf 52.8 / 50
p0 −193.2 ± 1498
pull
Entries 51
Mean 27.86
Std Dev 10.88
pull1D
Entries 51
Mean 0.06145
Std Dev 1.016


asym_at1_avg_correction_rms vs run
χ^2 / ndf 5.292e+05 / 50
p0 715.3 ± 1.059
3000
2500
2000
1500
1000
500

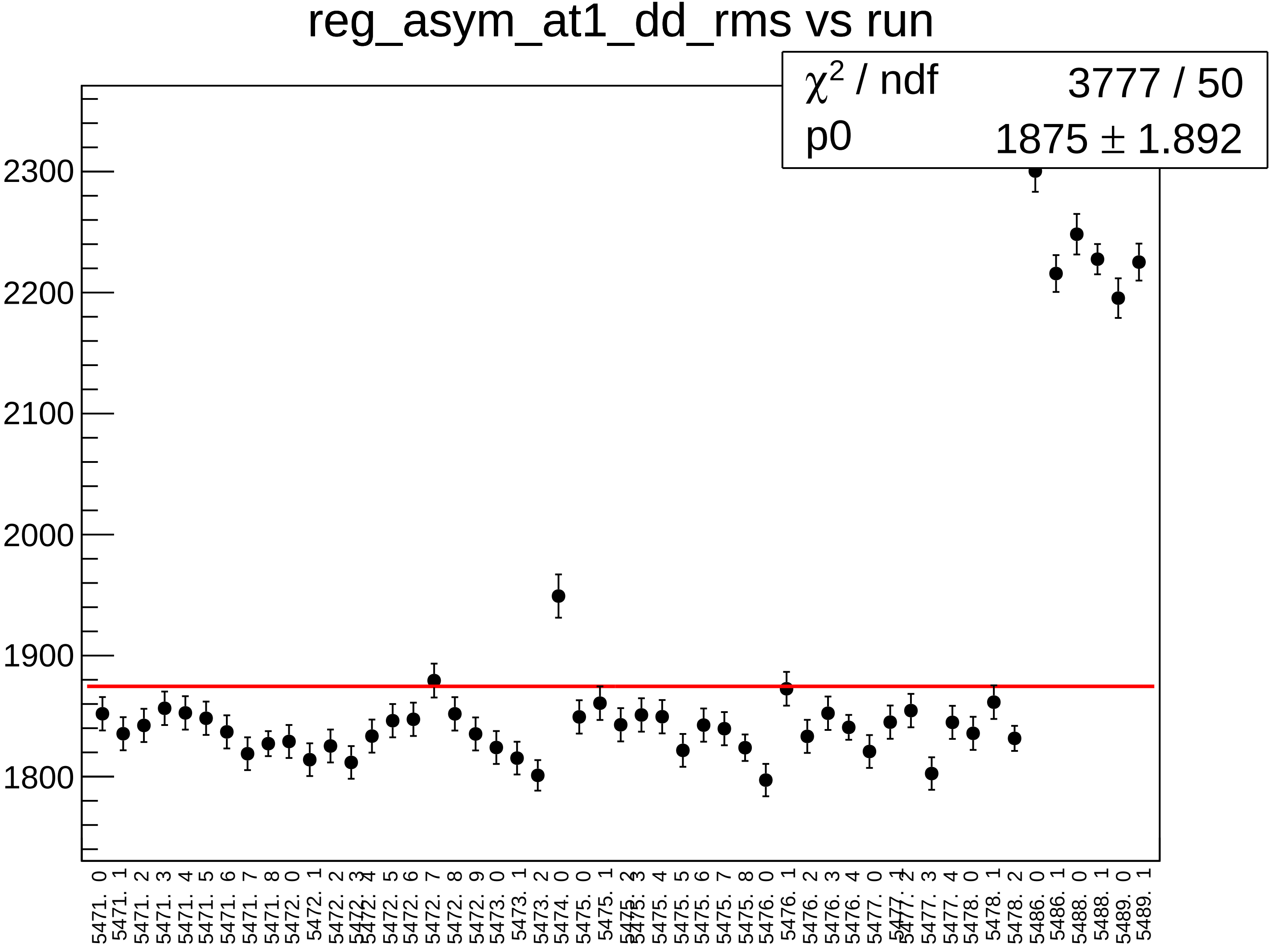

asym_at1_avg_mean vs run
χ^2 / ndf 68.88 / 50
p0 2590 ± 4297
×10³
pull
Entries 51
Mean −11.25
Std Dev 44.2
pull1D
Entries 51
Mean −0.04617
Std Dev 1.161



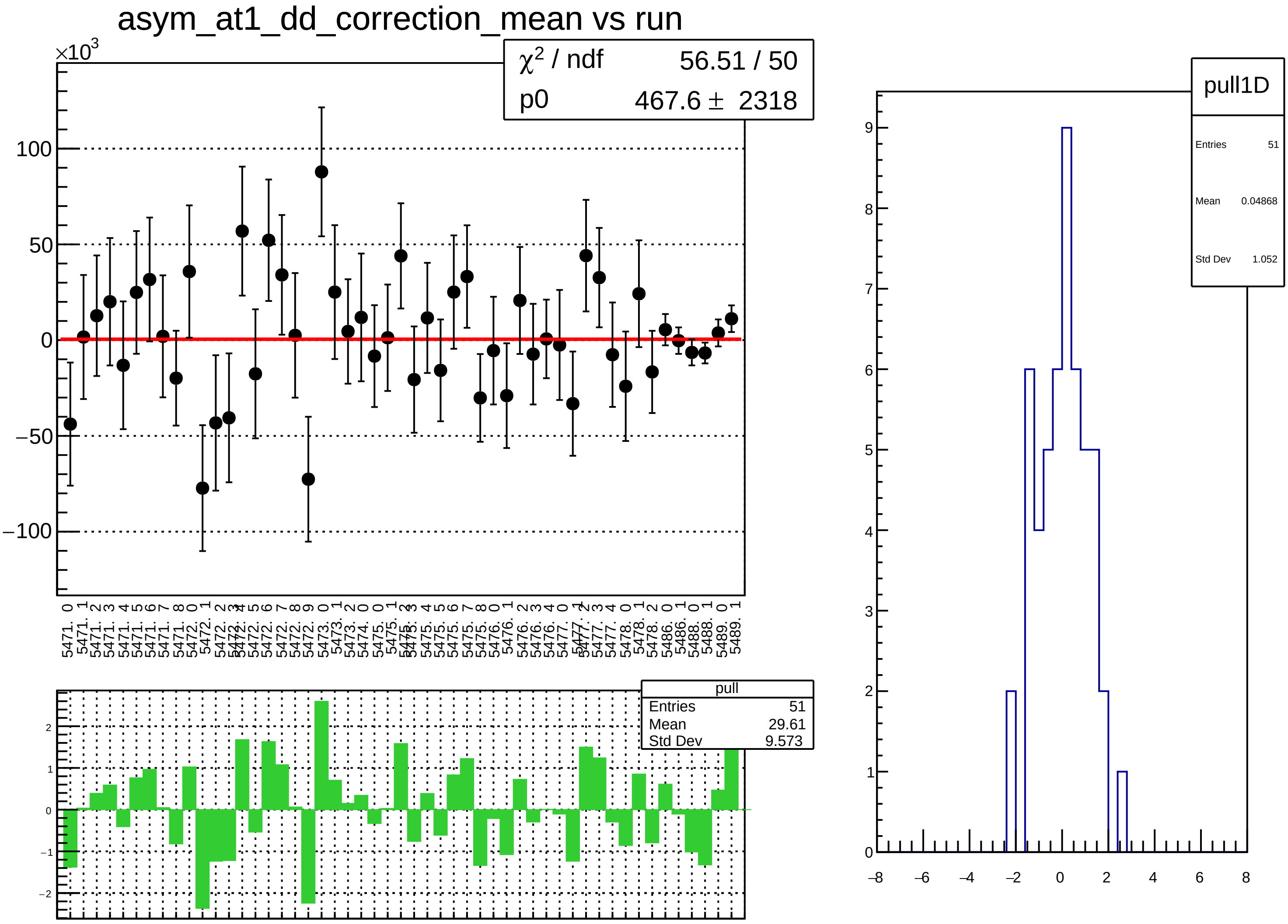
asym_at1_avg_rms vs run
χ^2 / ndf 1.909e+04 / 50
p0 2987 ± 3.038
3600
3400
3200
3000
2800
2600
2400
2200



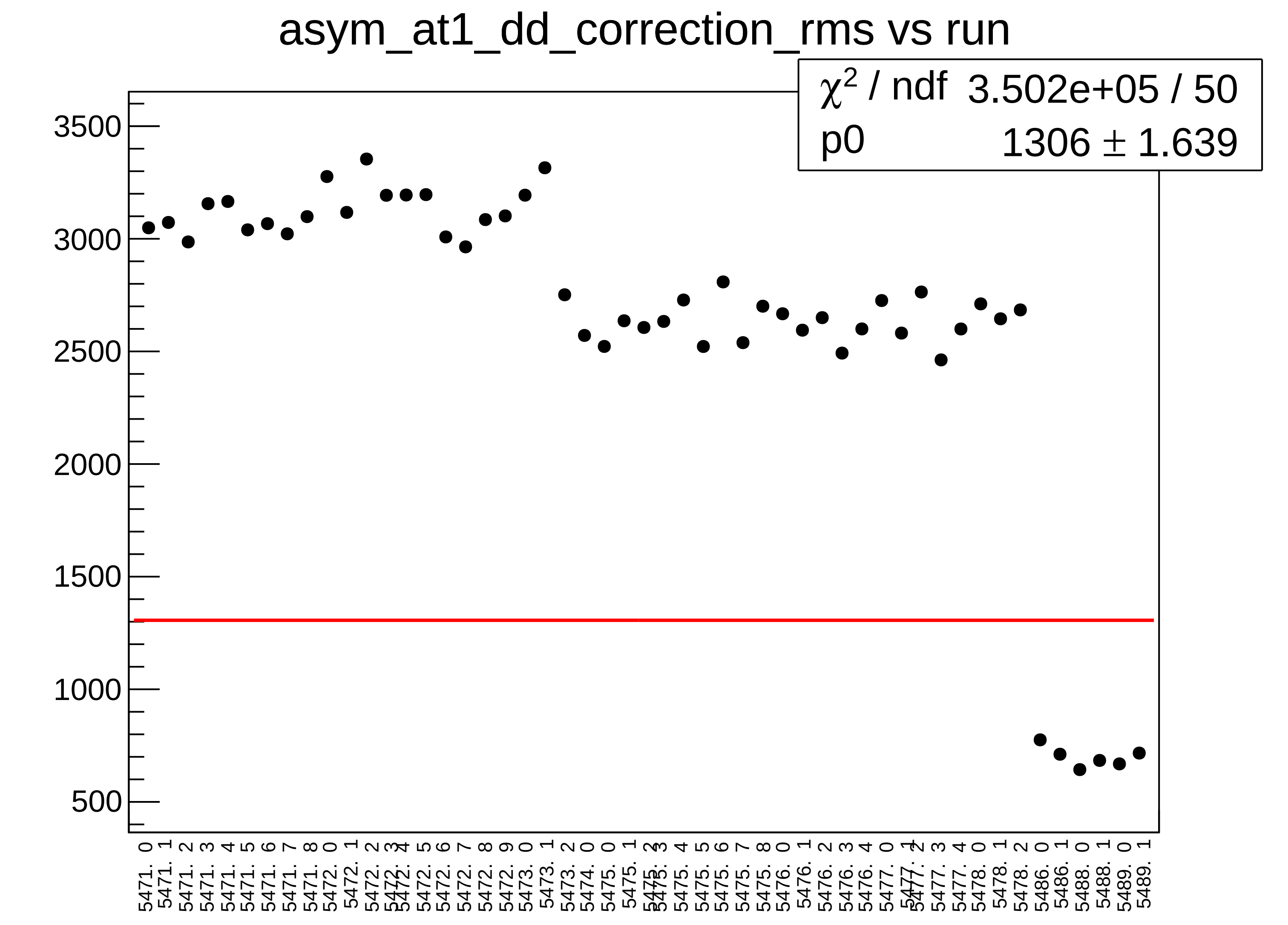
reg_asym_at1_dd_mean vs run
χ^2 / ndf 45.57 / 50
p0 1423 ± 2676
pull
Entries 51
Mean −219.9
Std Dev 241.5
pull1D
Entries 51
Mean −0.01171
Std Dev 0.9452



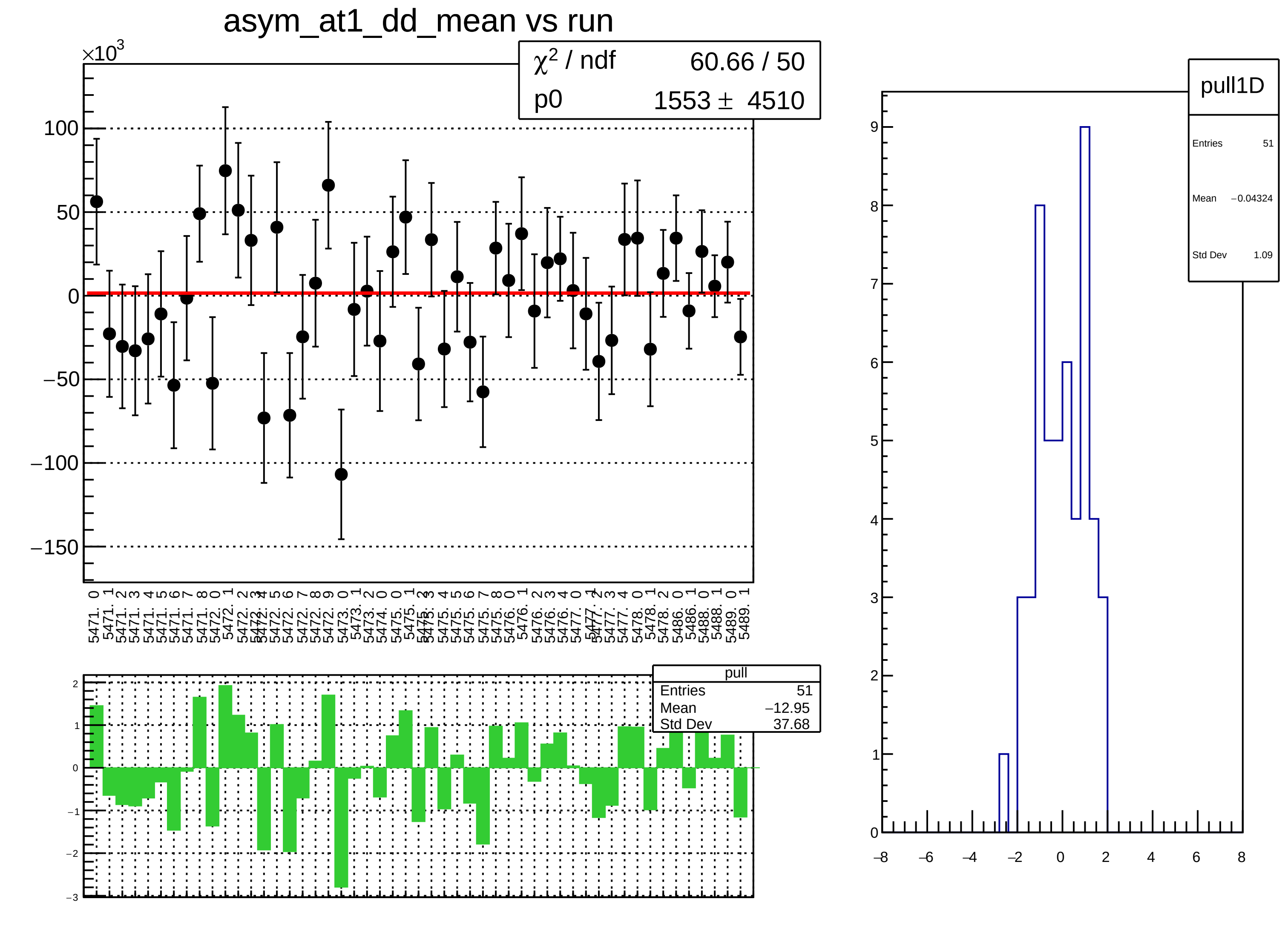
reg_asym_at1_dd_rms vs run
χ^2 / ndf 3777 / 50
p0 1875 ± 1.892
2300
2200
2100
2000
1900
1800



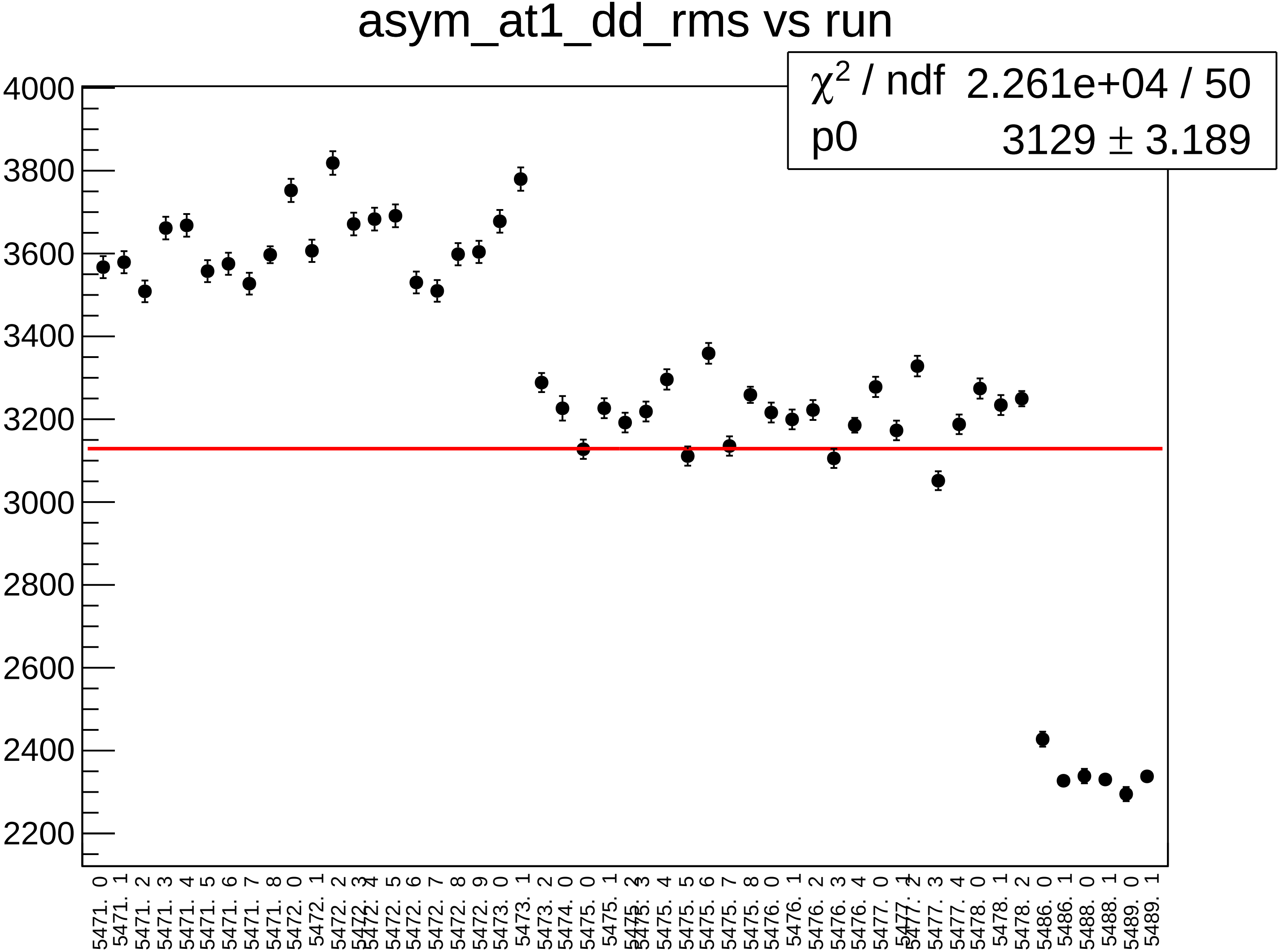
asym_at1_dd_correction_mean vs run
χ^2 / ndf 56.51 / 50
p0 467.6 ± 2318
pull
Entries 51
Mean 29.61
Std Dev 9.573
pull1D
Entries 51
Mean 0.04868
Std Dev 1.052



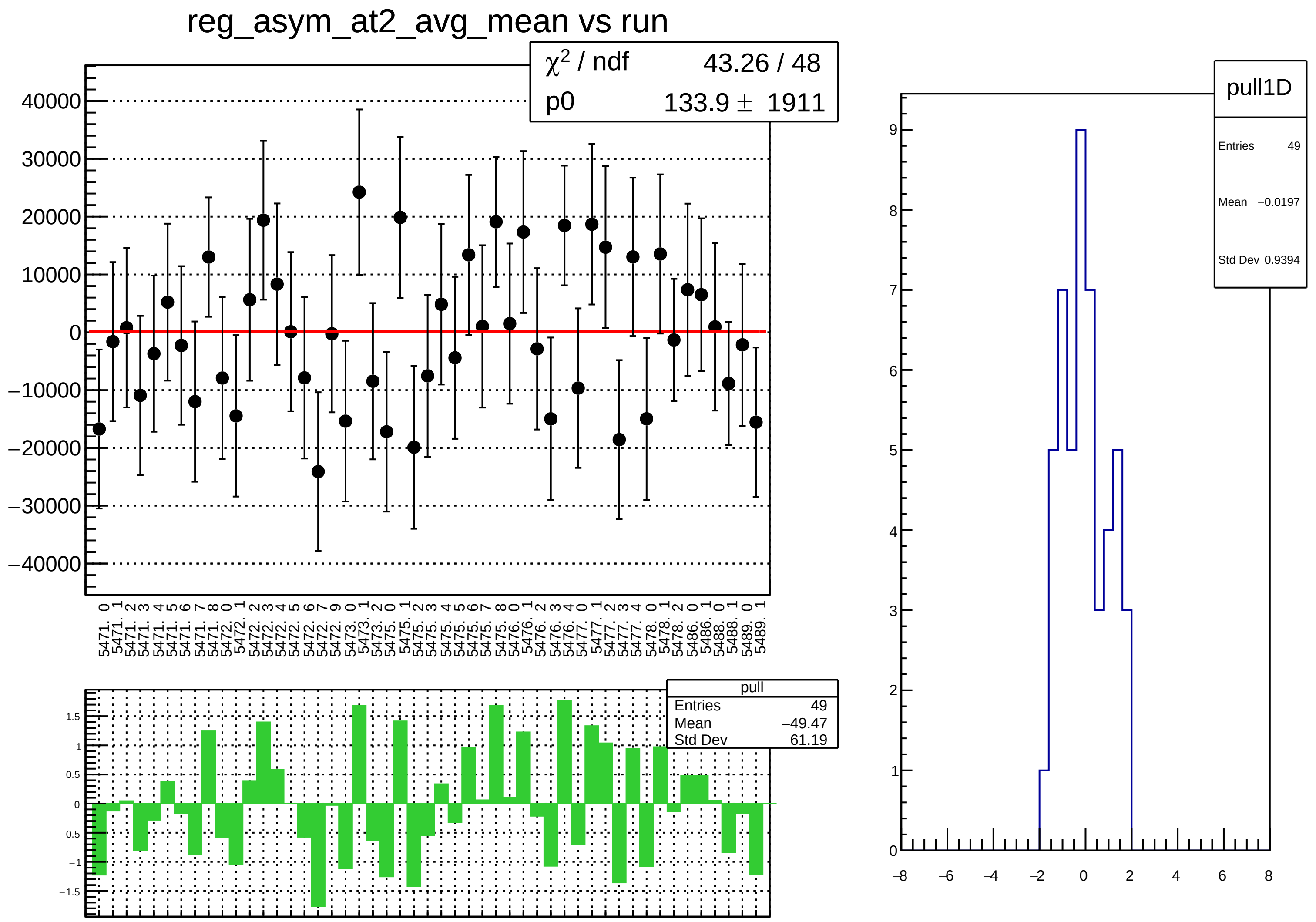
asym_at1_dd_correction_rms vs run
χ^2 / ndf 3.502e+05 / 50
p0 1306 ± 1.639
3500
3000
2500
2000
1500
1000
500



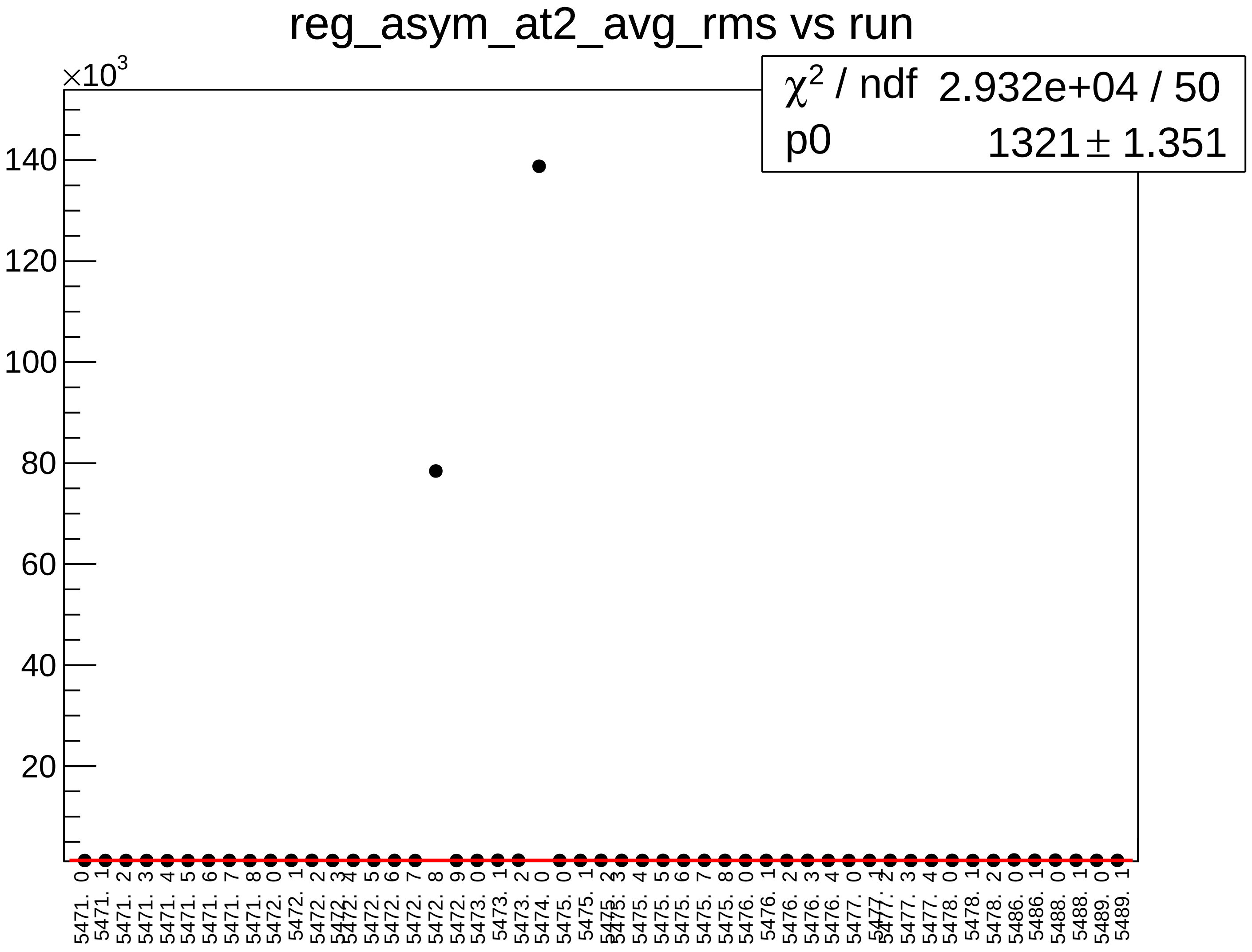
asym_at1_dd_mean vs run
×10^3
χ2 / ndf 60.66 / 50
p0 1553 ± 4510
100
50
0
−50
−100
−150
pull
Entries 51
Mean −12.95
Std Dev 37.68
pull1D
Entries 51
Mean −0.04324
Std Dev 1.09



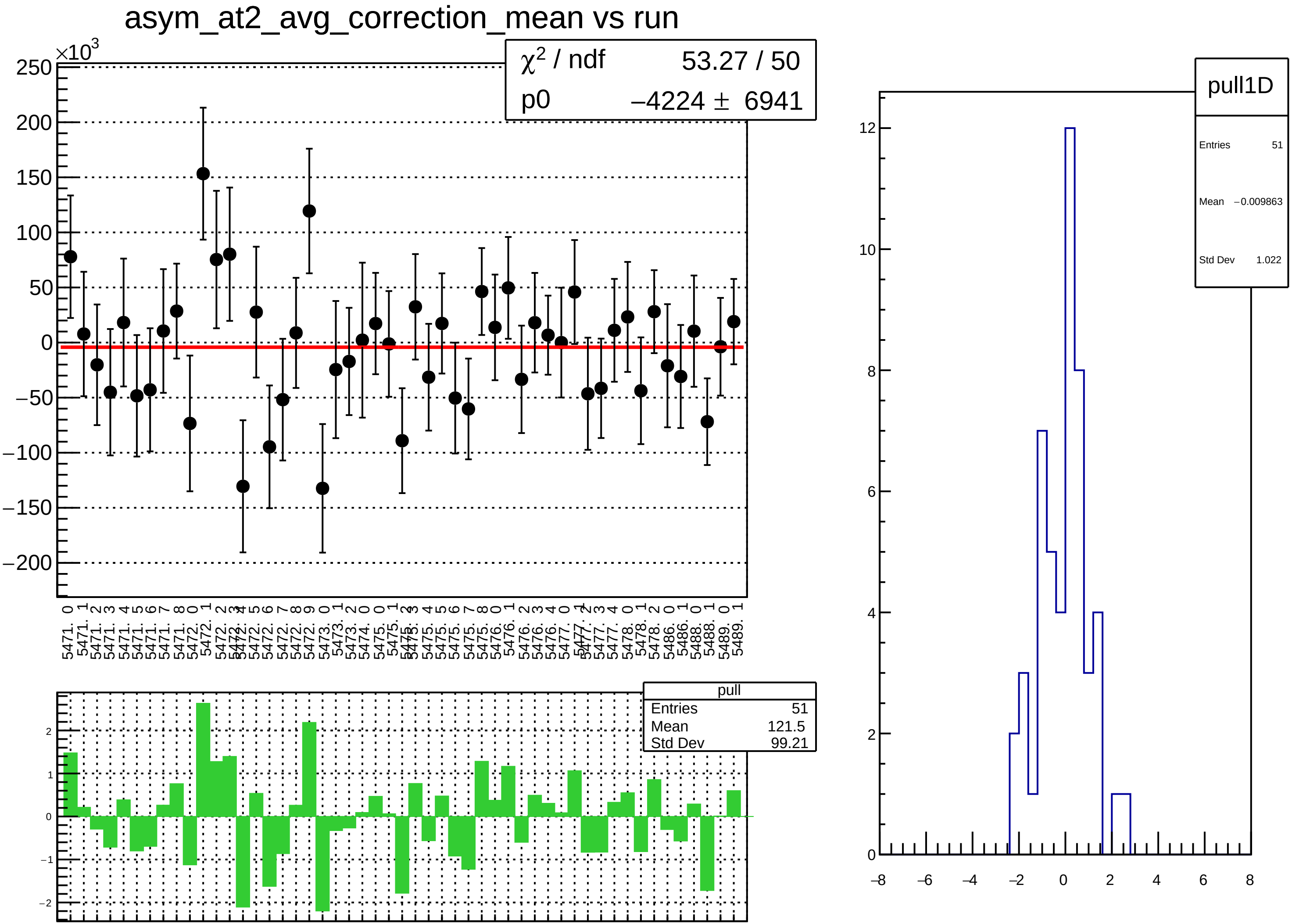
asym_at1_dd_rms vs run
χ^2 / ndf 2.261e+04 / 50
p0 3129 ± 3.189
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200



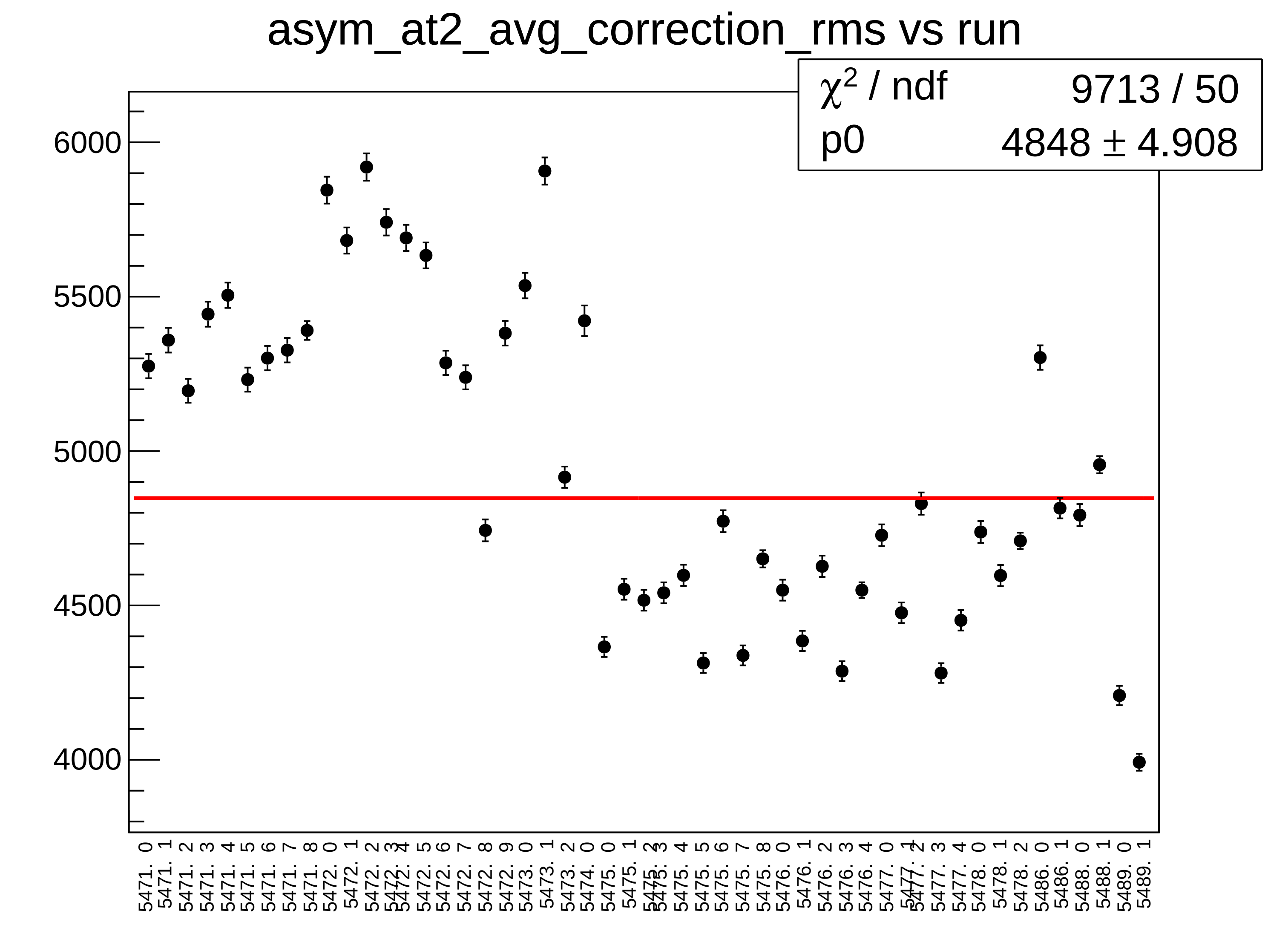
reg_asym_at2_avg_mean vs run
χ^2 / ndf 43.26 / 48
p0 133.9 ± 1911
pull
Entries 49
Mean −49.47
Std Dev 61.19
pull1D
Entries 49
Mean −0.0197
Std Dev 0.9394



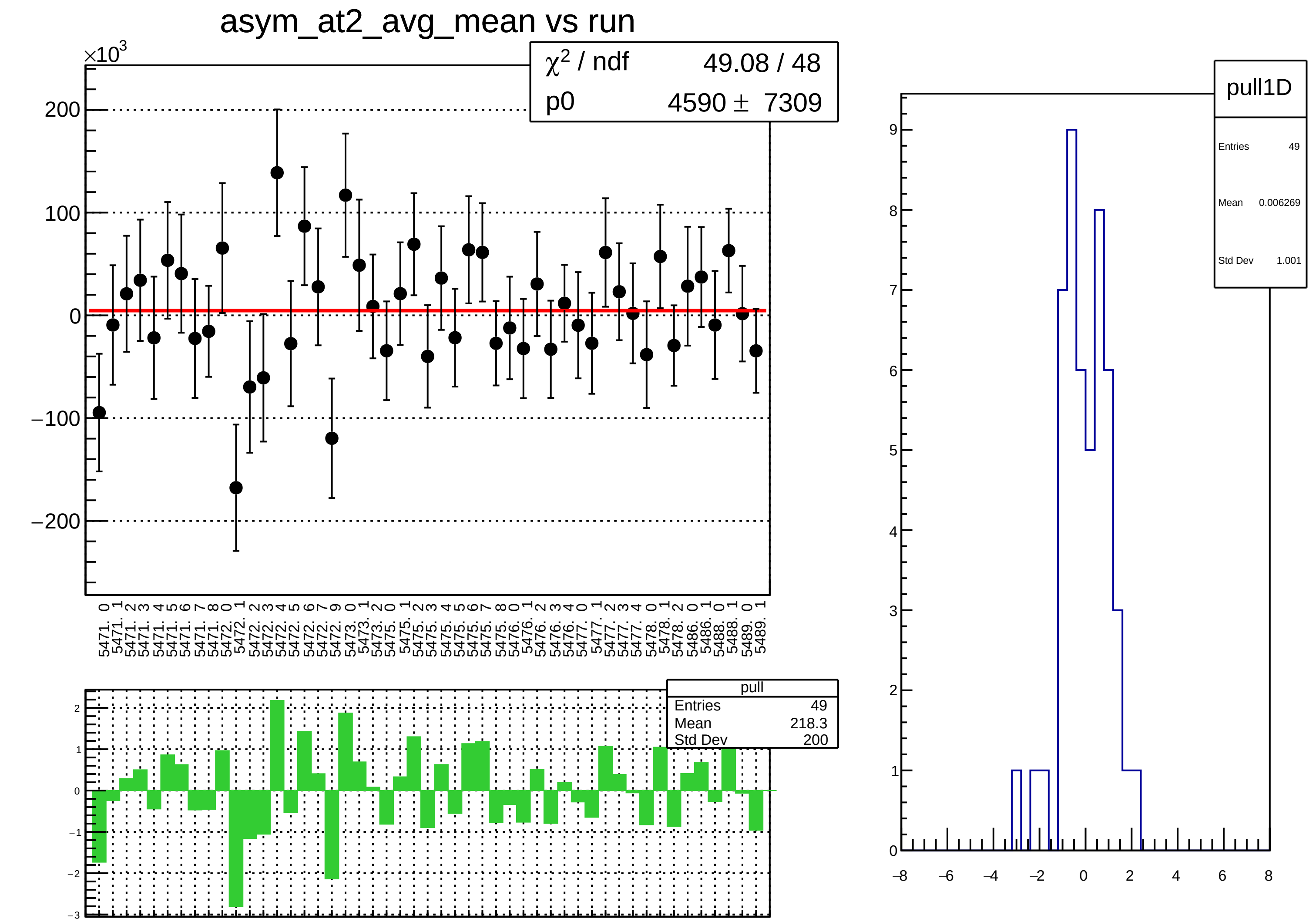
reg_asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 2.932e+04 / 50
p0 1321 ± 1.351
140
120
100
80
60
40
20



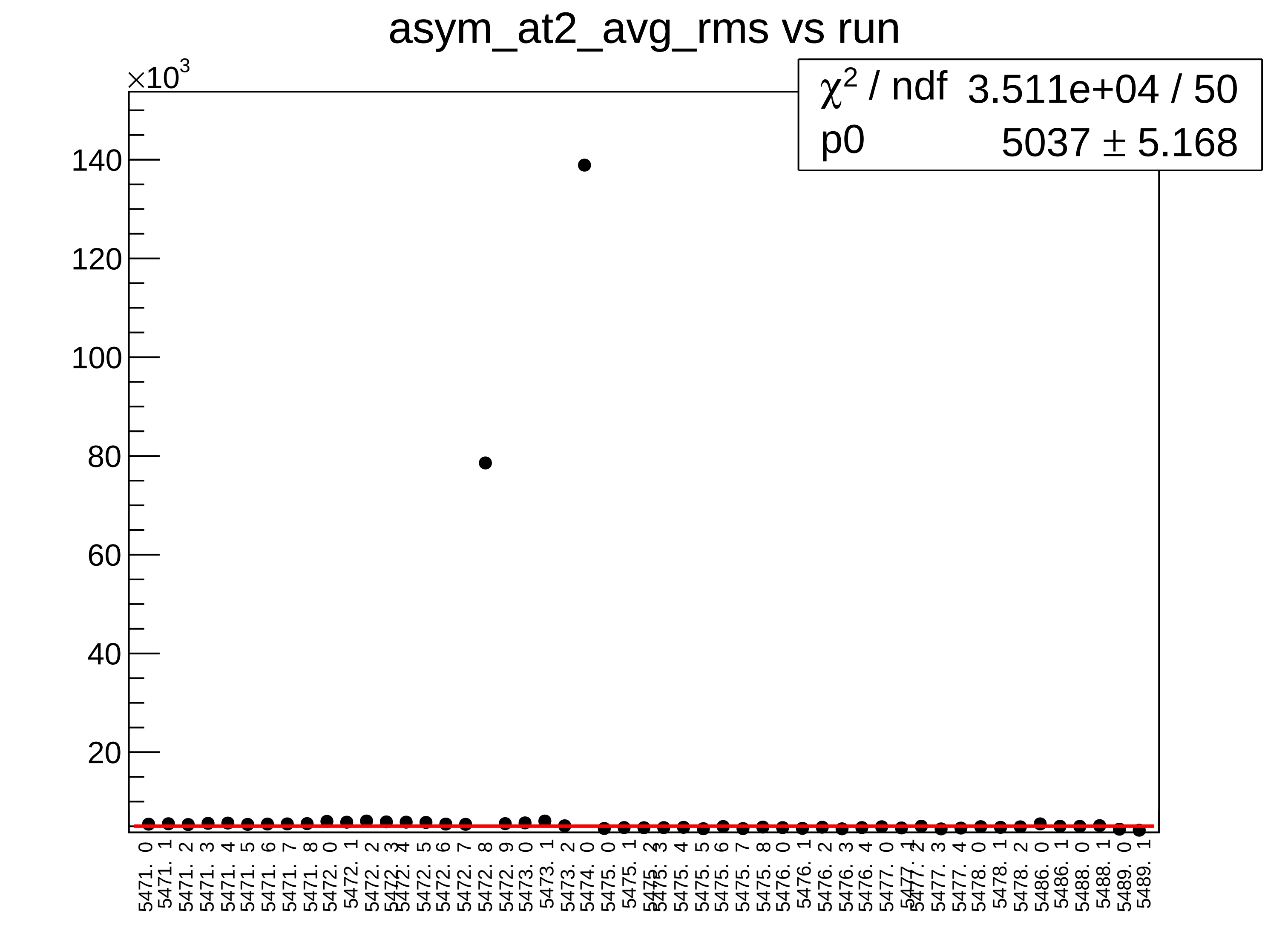
asym_at2_avg_correction_mean vs run
×10^3
χ^2 / ndf 53.27 / 50
p0 −4224 ± 6941
pull
Entries 51
Mean 121.5
Std Dev 99.21
pull1D
Entries 51
Mean −0.009863
Std Dev 1.022



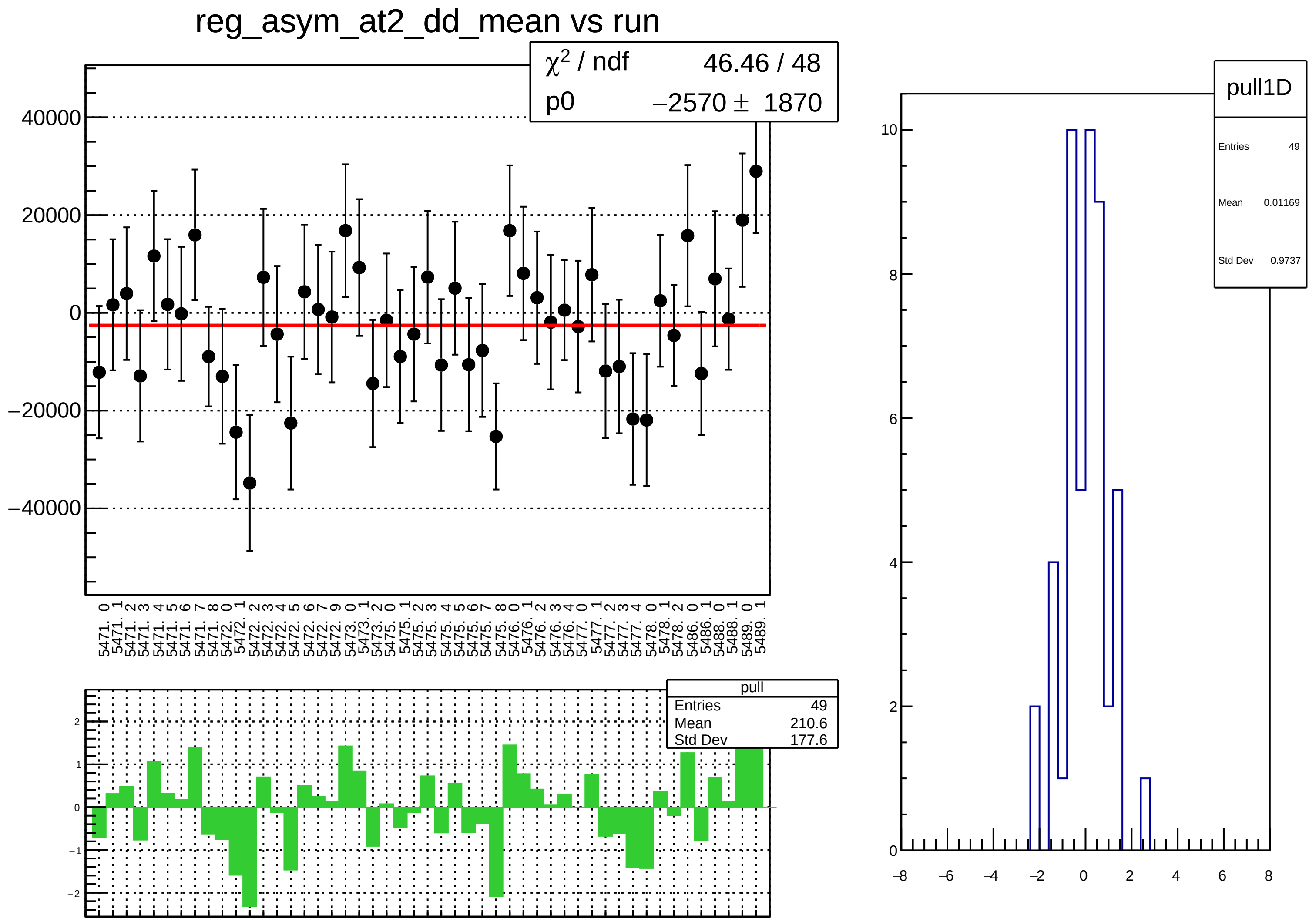
asym_at2_avg_correction_rms vs run
χ^2 / ndf 9713 / 50
p0 4848 ± 4.908
6000
5500
5000
4500
4000



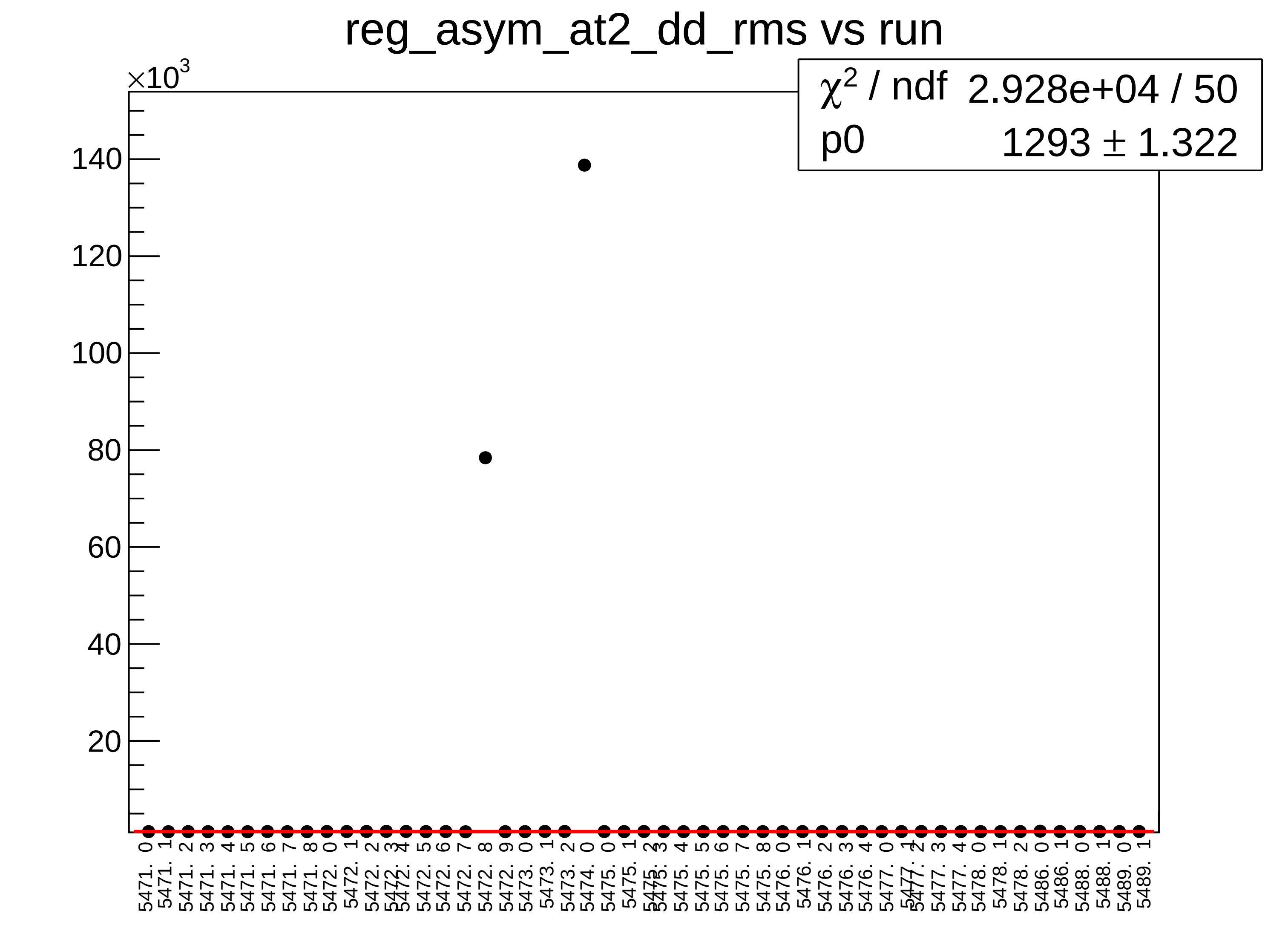
asym_at2_avg_mean vs run
×10^3
χ2 / ndf 49.08 / 48
p0 4590 ± 7309
200
100
0
−100
−200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 218.3
Std Dev 200
2
1
0
−1
−2
−3
pull1D
Entries 49
Mean 0.006269
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8



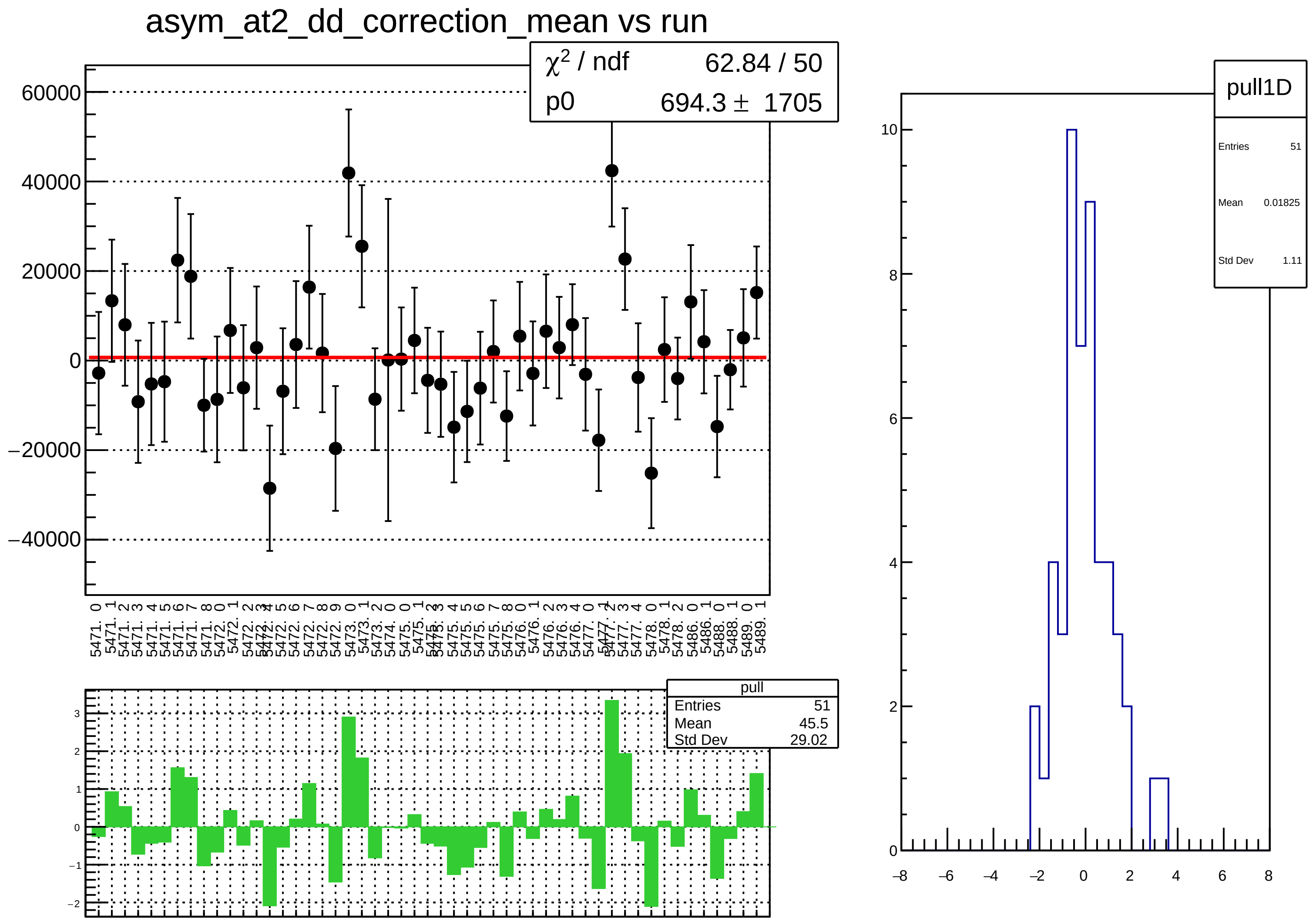
asym_at2_avg_rms vs run
$\times10^{3}$
χ^2 / ndf 3.511e+04 / 50
p0 5037 ± 5.168
140
120
100
80
60
40
20



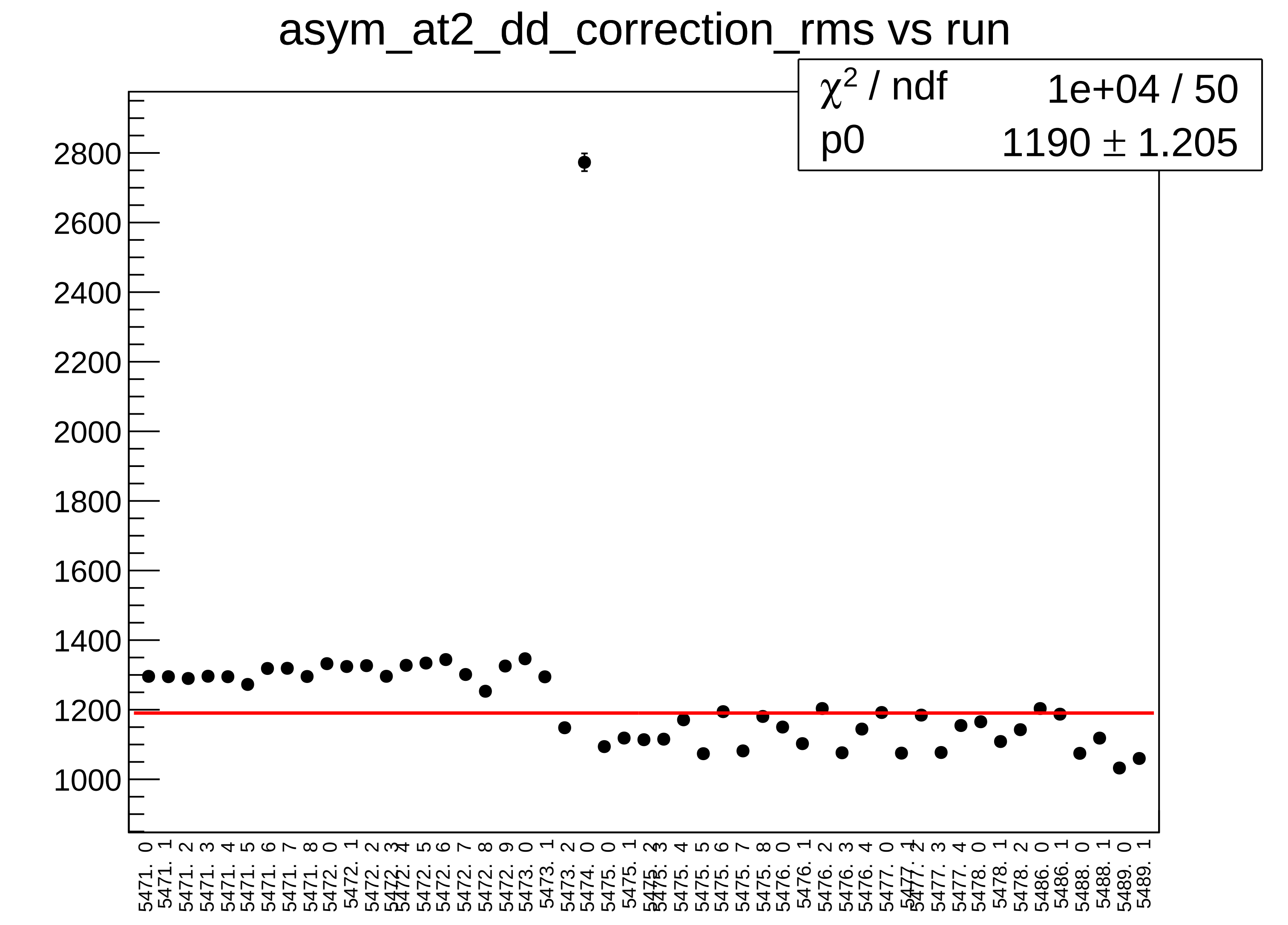
reg_asym_at2_dd_mean vs run
χ^2 / ndf 46.46 / 48
p0 −2570 ± 1870
pull1D
Entries 49
Mean 0.01169
Std Dev 0.9737
pull
Entries 49
Mean 210.6
Std Dev 177.6



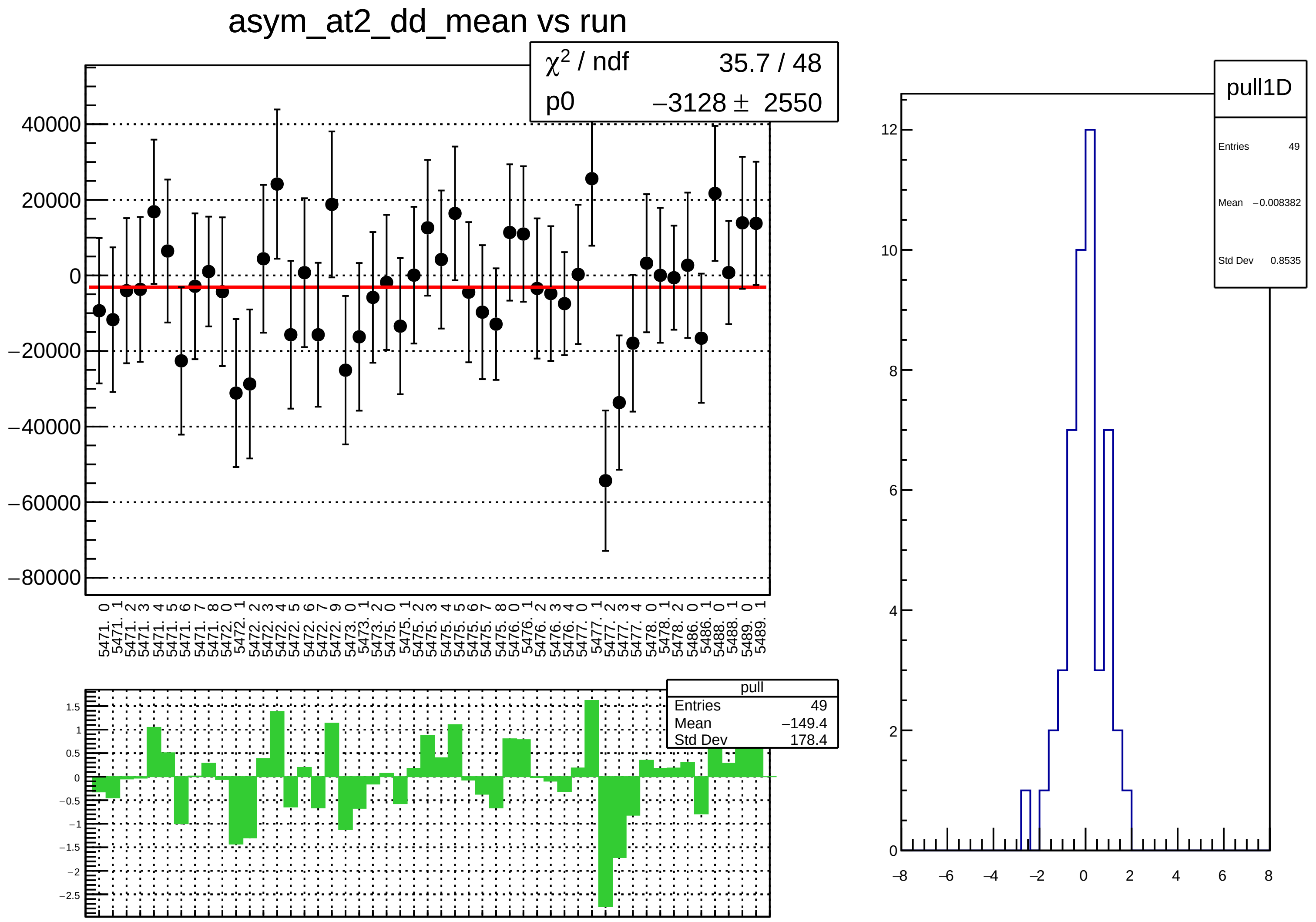
reg_asym_at2_dd_rms vs run
$\times10^3$
χ^2 / ndf 2.928e+04 / 50
p0 1293 ± 1.322
140
120
100
80
60
40
20



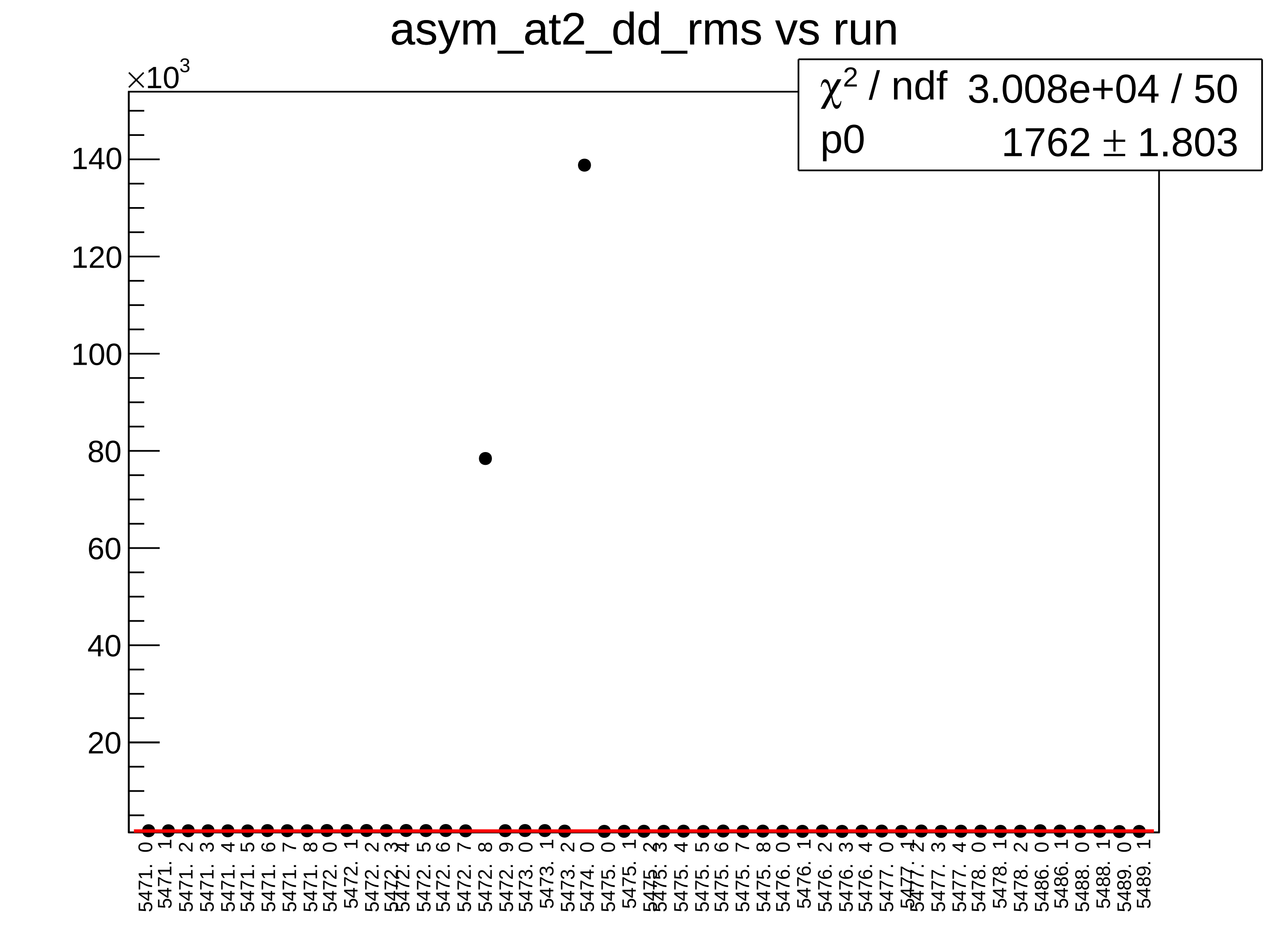
asym_at2_dd_correction_mean vs run
χ^2 / ndf 62.84 / 50
p0 694.3 ± 1705
pull
Entries 51
Mean 45.5
Std Dev 29.02
pull1D
Entries 51
Mean 0.01825
Std Dev 1.11



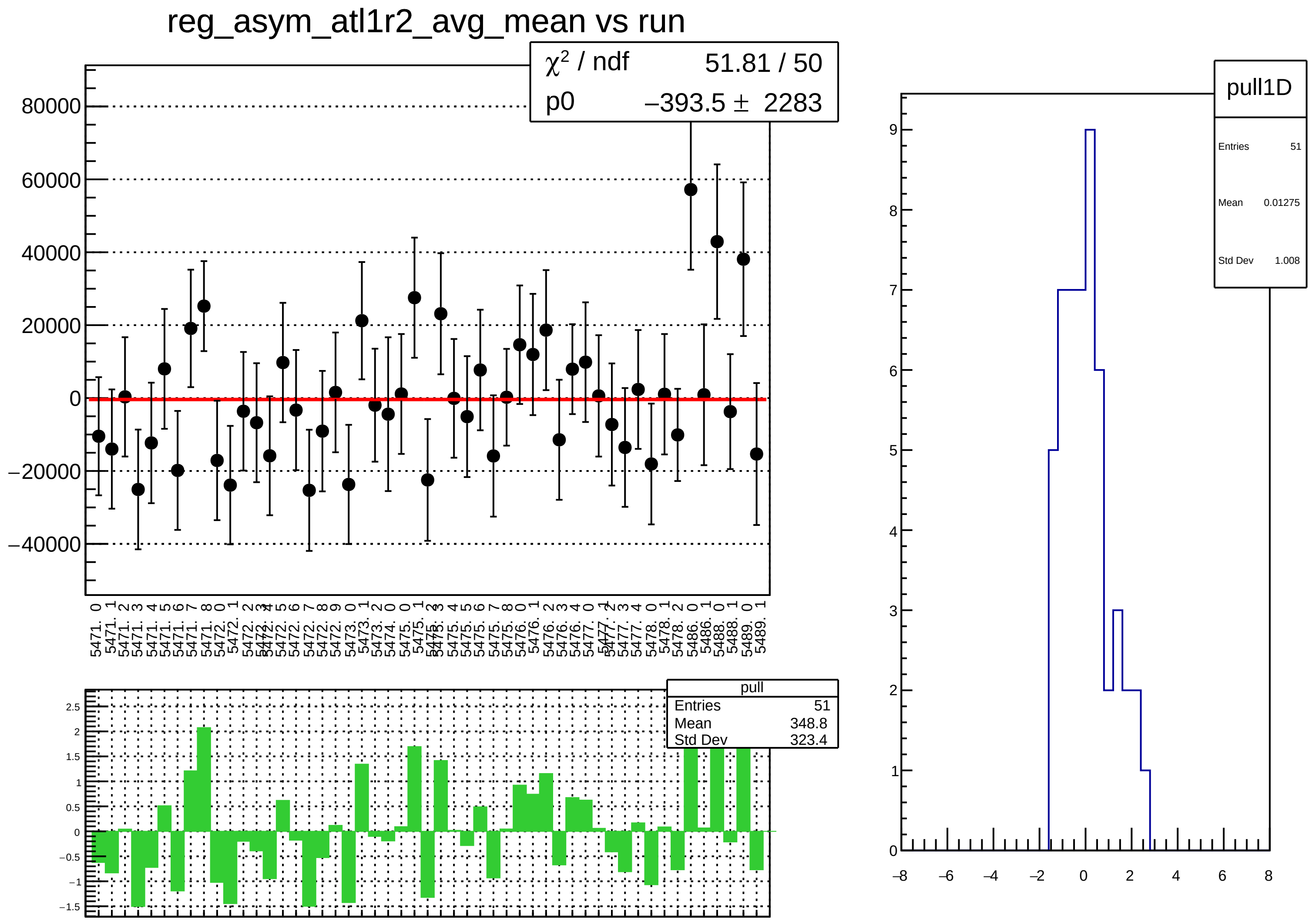
asym_at2_dd_correction_rms vs run
χ^2 / ndf 1e+04 / 50
p0 1190 ± 1.205
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000



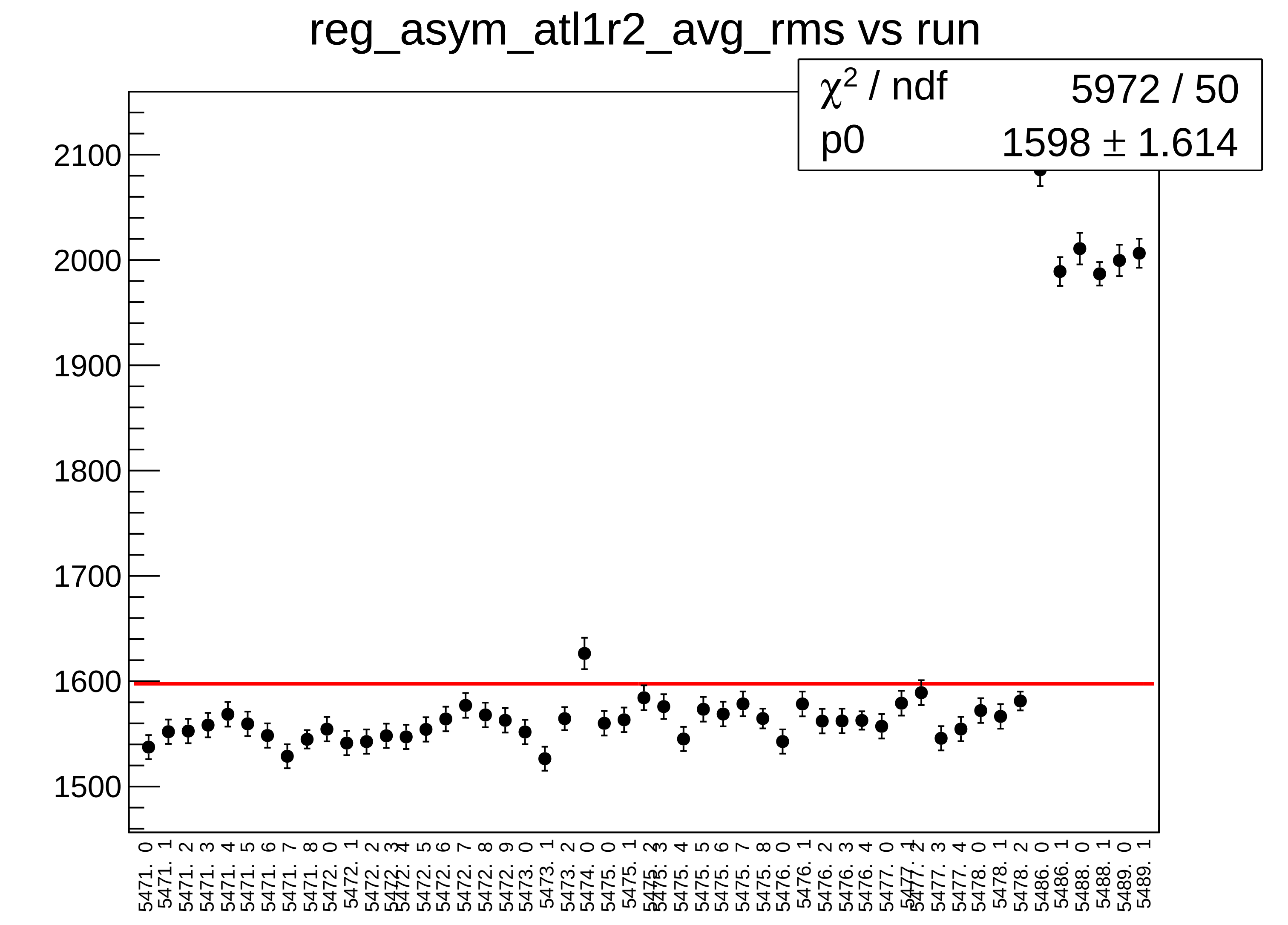
asym_at2_dd_mean vs run
χ^2 / ndf 35.7 / 48
p0 −3128 ± 2550
40000
20000
0
−20000
−40000
−60000
−80000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5475. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean −149.4
Std Dev 178.4
pull1D
Entries 49
Mean −0.008382
Std Dev 0.8535

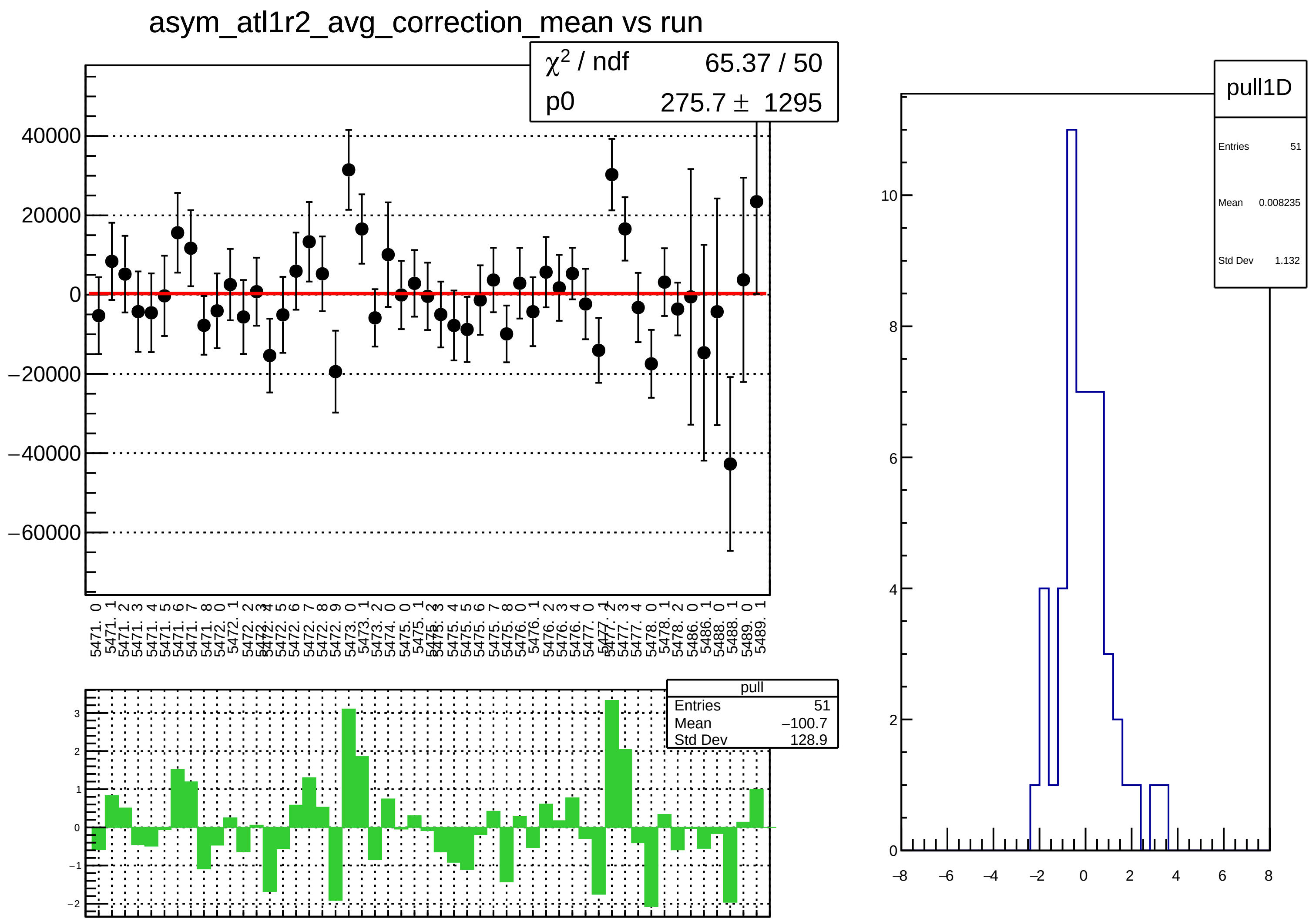


asym_at2_dd_rms vs run
×10^3
χ2 / ndf 3.008e+04 / 50
p0 1762 ± 1.803
140
120
100
80
60
40
20

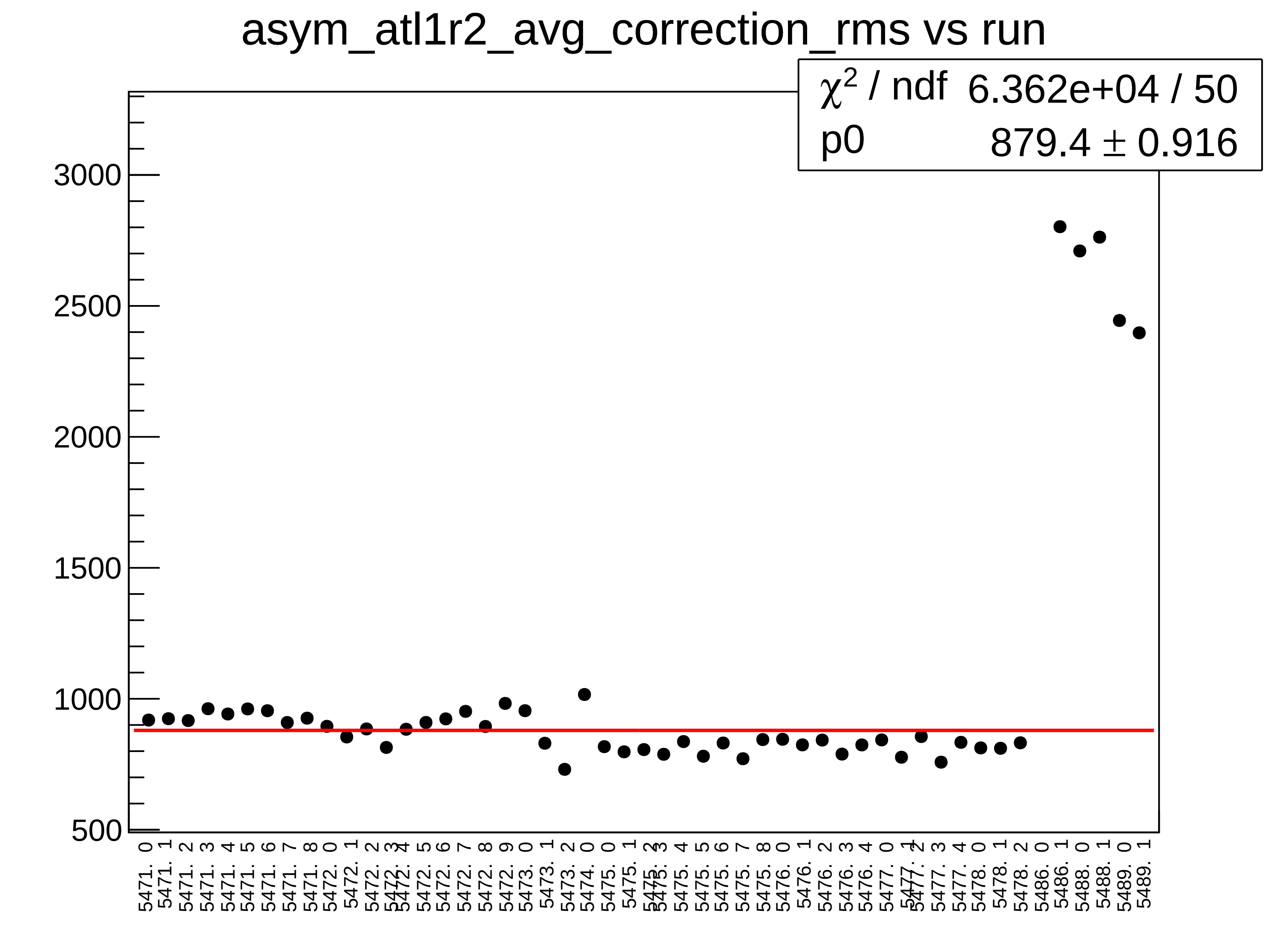


reg_asym_atl1r2_avg_mean vs run
χ^2 / ndf 51.81 / 50
p0 −393.5 ± 2283
pull
Entries 51
Mean 348.8
Std Dev 323.4
pull1D
Entries 51
Mean 0.01275
Std Dev 1.008

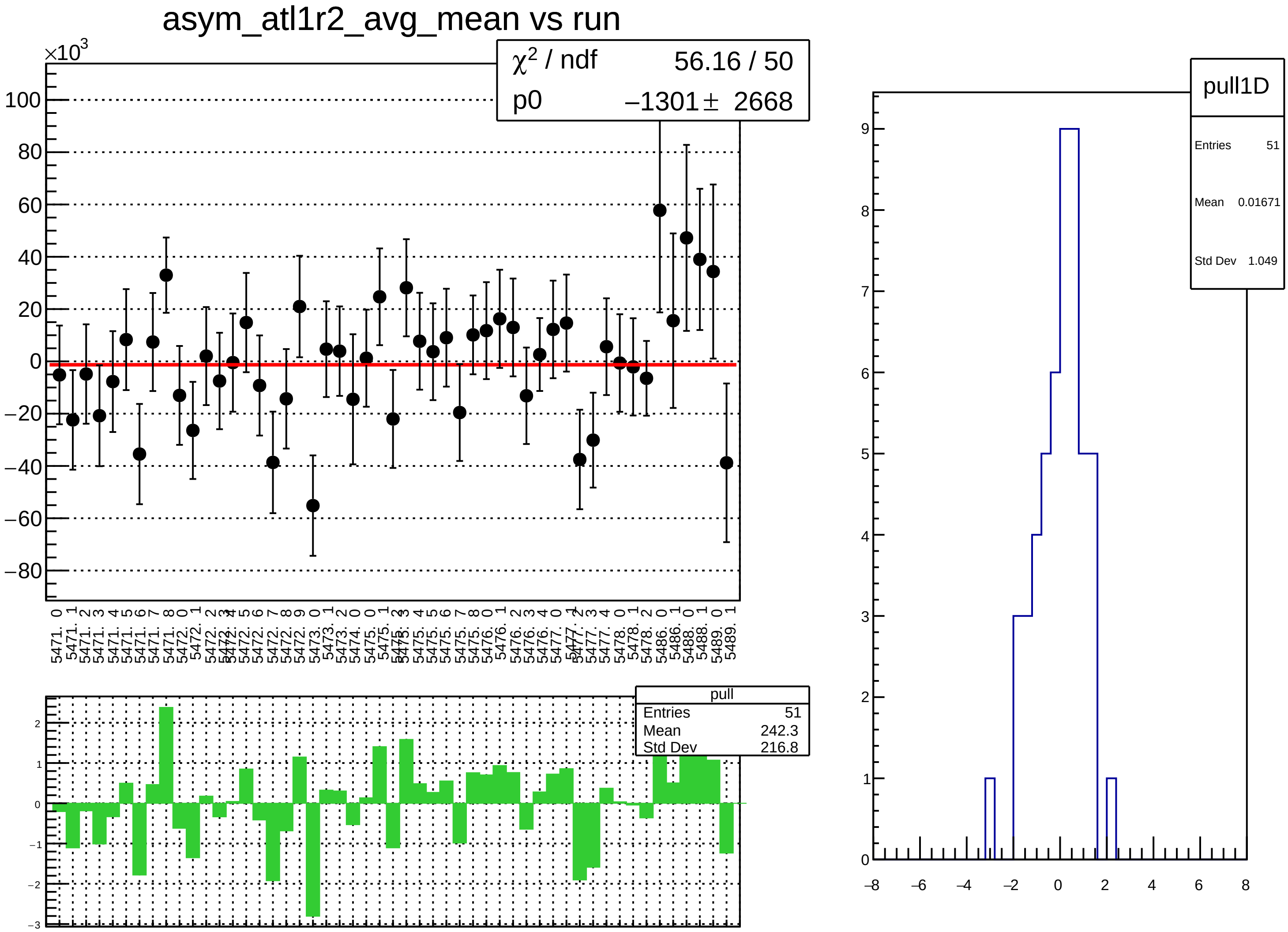

reg_asym_atl1r2_avg_rms vs run
χ2 / ndf 5972 / 50
p0 1598 ± 1.614
2100
2000
1900
1800
1700
1600
1500



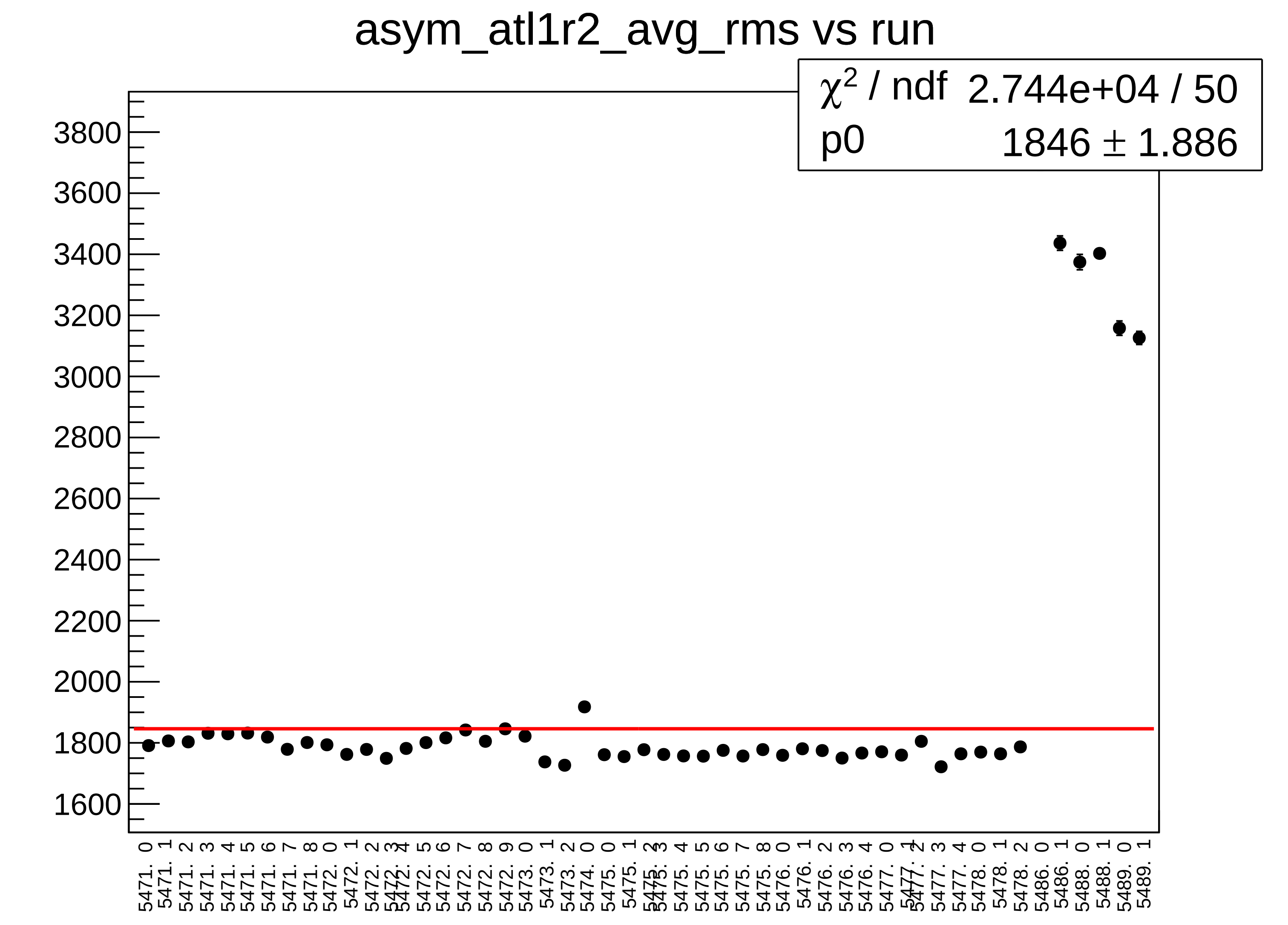
asym_atl1r2_avg_correction_mean vs run
χ2 / ndf 65.37 / 50
p0 275.7 ± 1295
pull
Entries 51
Mean −100.7
Std Dev 128.9
pull1D
Entries 51
Mean 0.008235
Std Dev 1.132



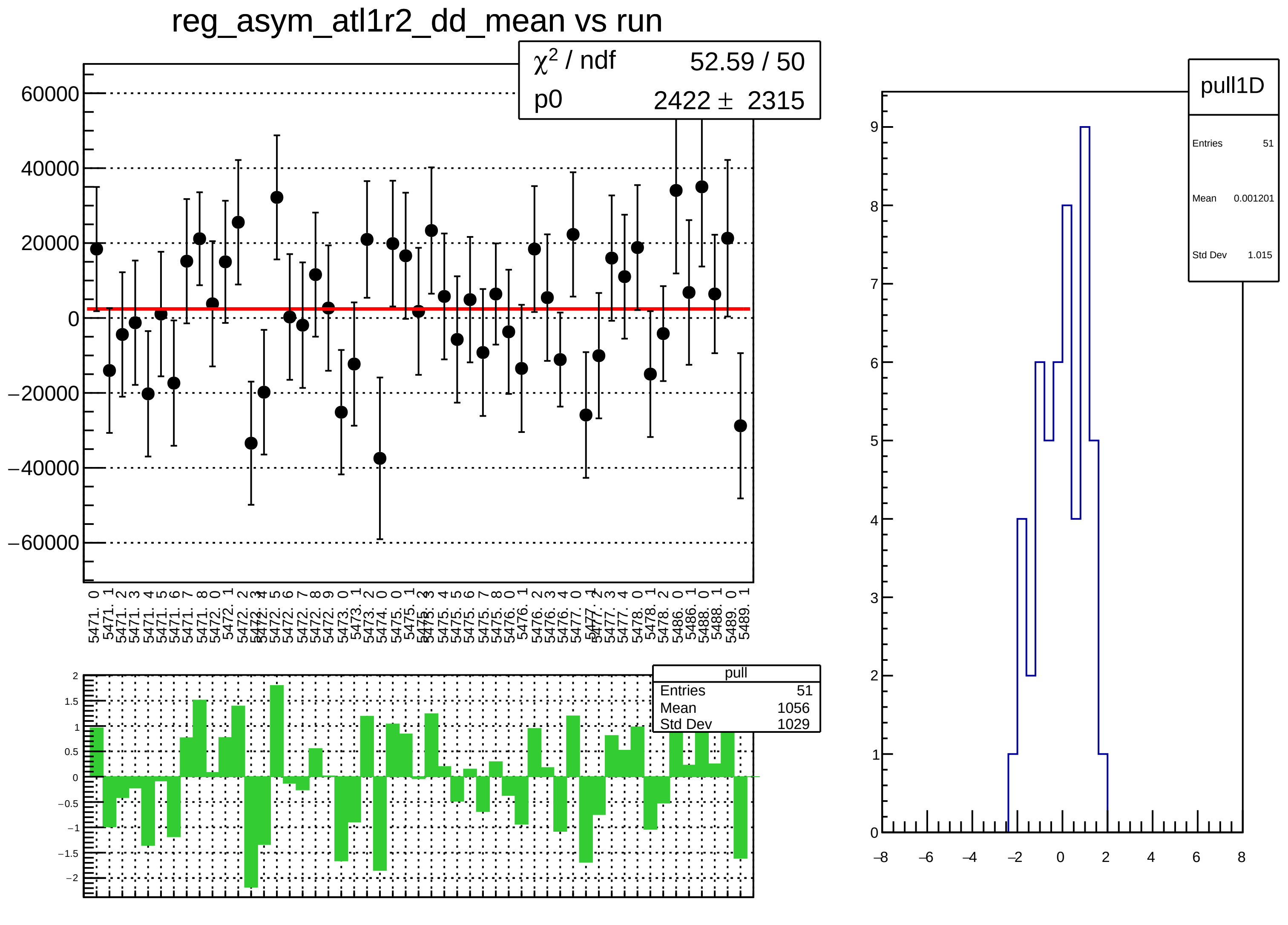
asym_atl1r2_avg_correction_rms vs run
χ2 / ndf 6.362e+04 / 50
p0 879.4 ± 0.916
3000
2500
2000
1500
1000
500



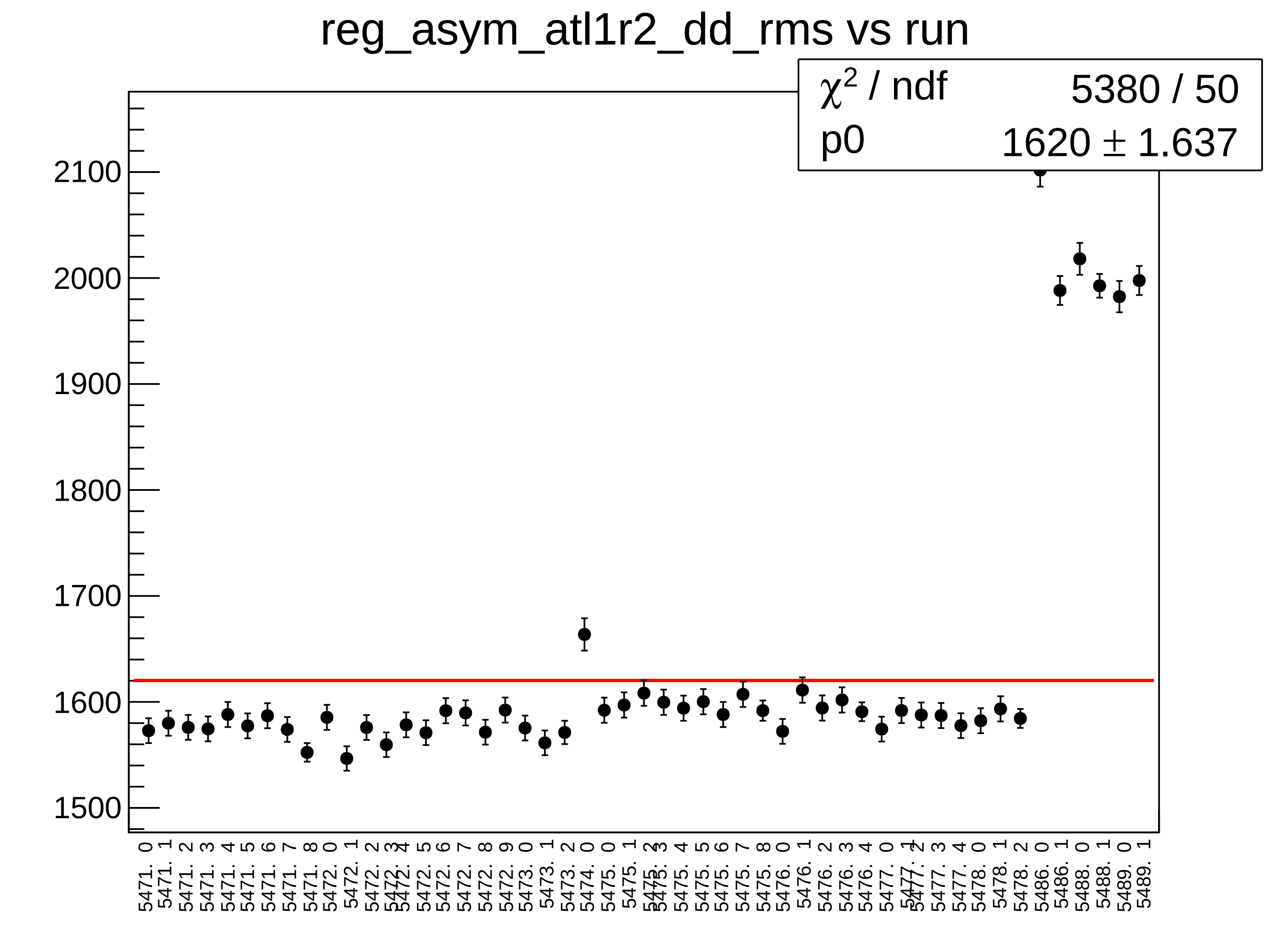
asym_atl1r2_avg_mean vs run
$\times10^3$
χ^2 / ndf 56.16 / 50
p0 −1301 ± 2668
pull
Entries 51
Mean 242.3
Std Dev 216.8
pull1D
Entries 51
Mean 0.01671
Std Dev 1.049

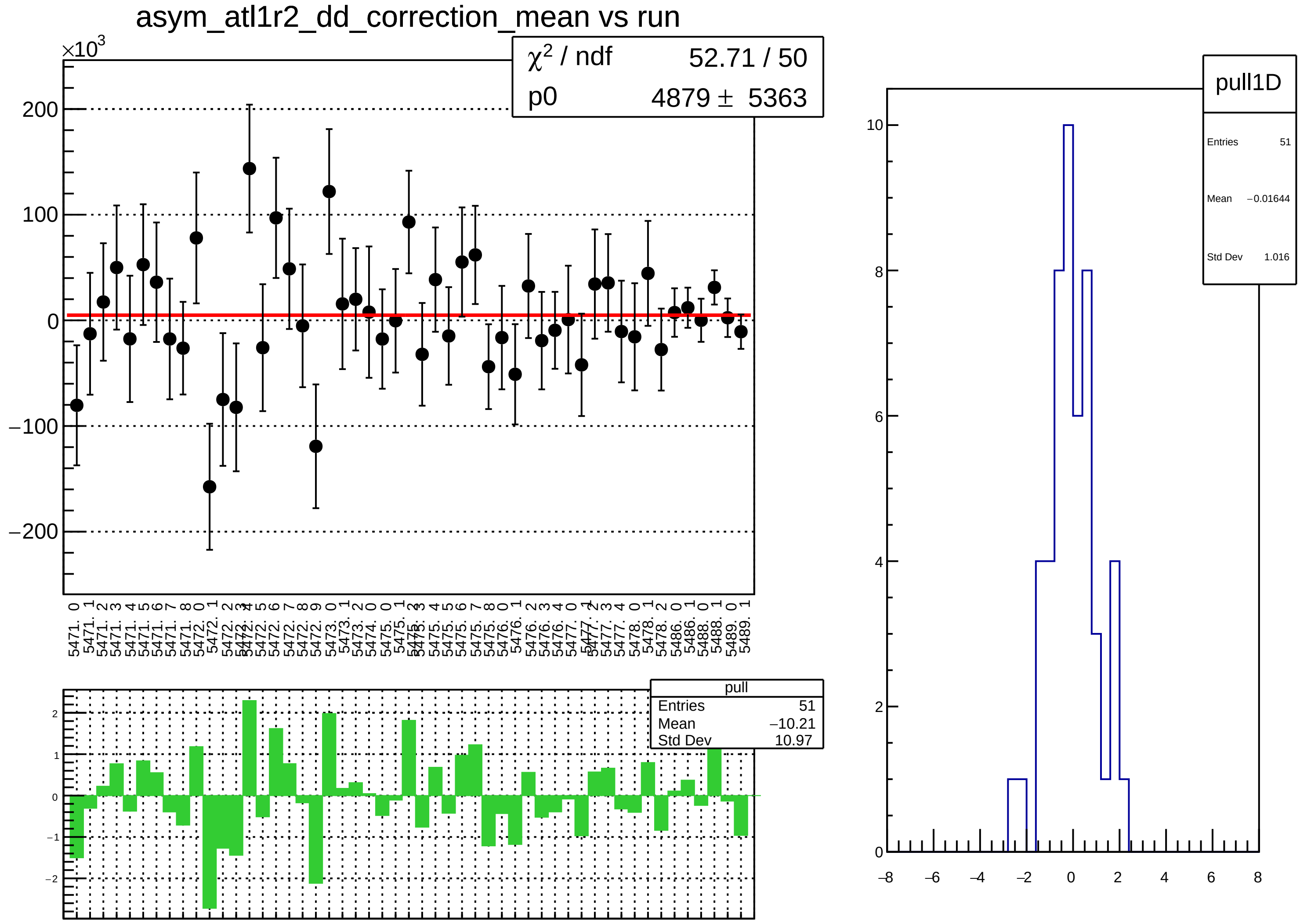


asym_atl1r2_avg_rms vs run
χ^2 / ndf 2.744e+04 / 50
p0 1846 ± 1.886
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

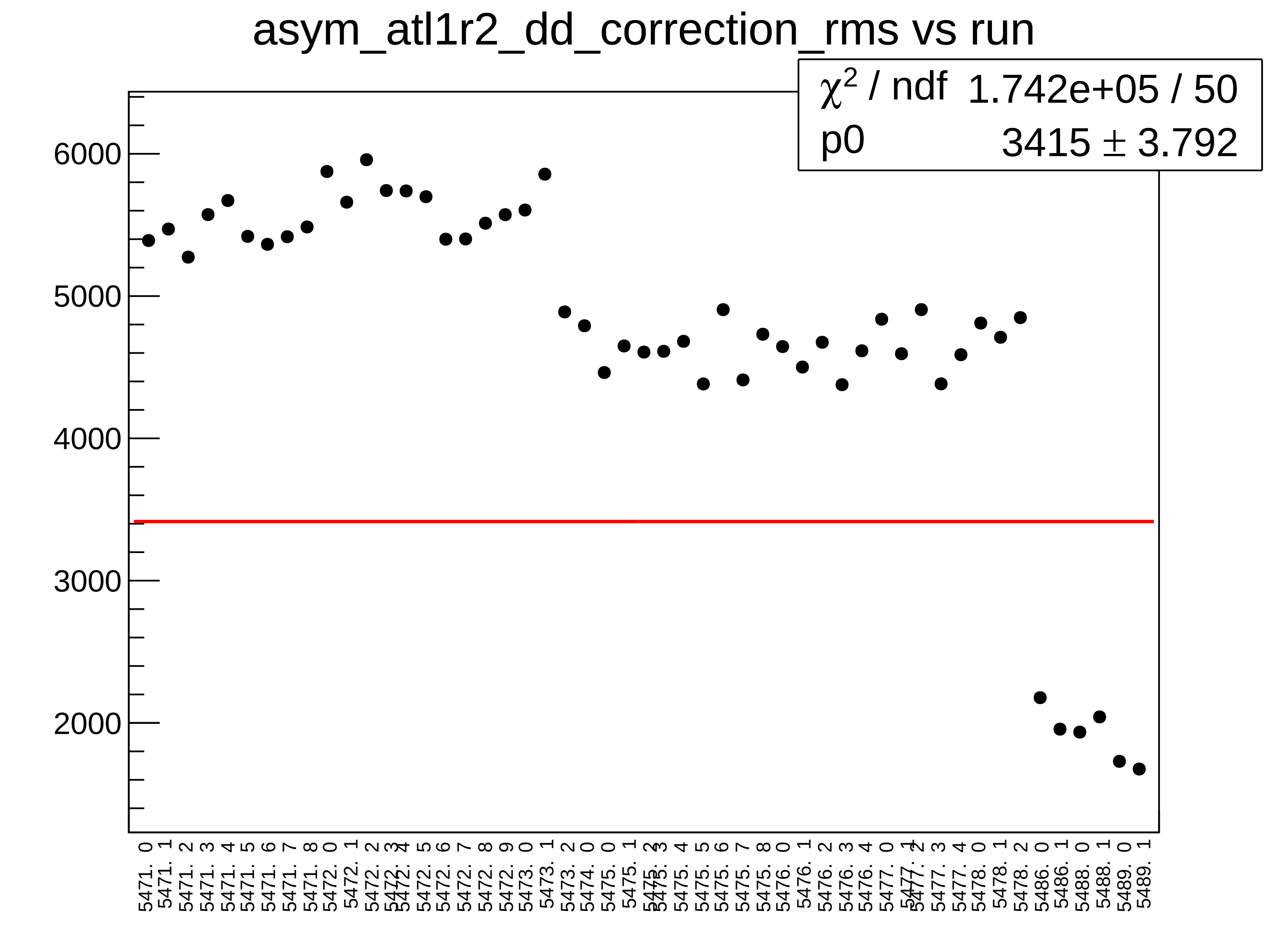


reg_asym_atl1r2_dd_mean vs run
χ2 / ndf 52.59 / 50
p0 2422 ± 2315
pull
Entries 51
Mean 1056
Std Dev 1029
pull1D
Entries 51
Mean 0.001201
Std Dev 1.015

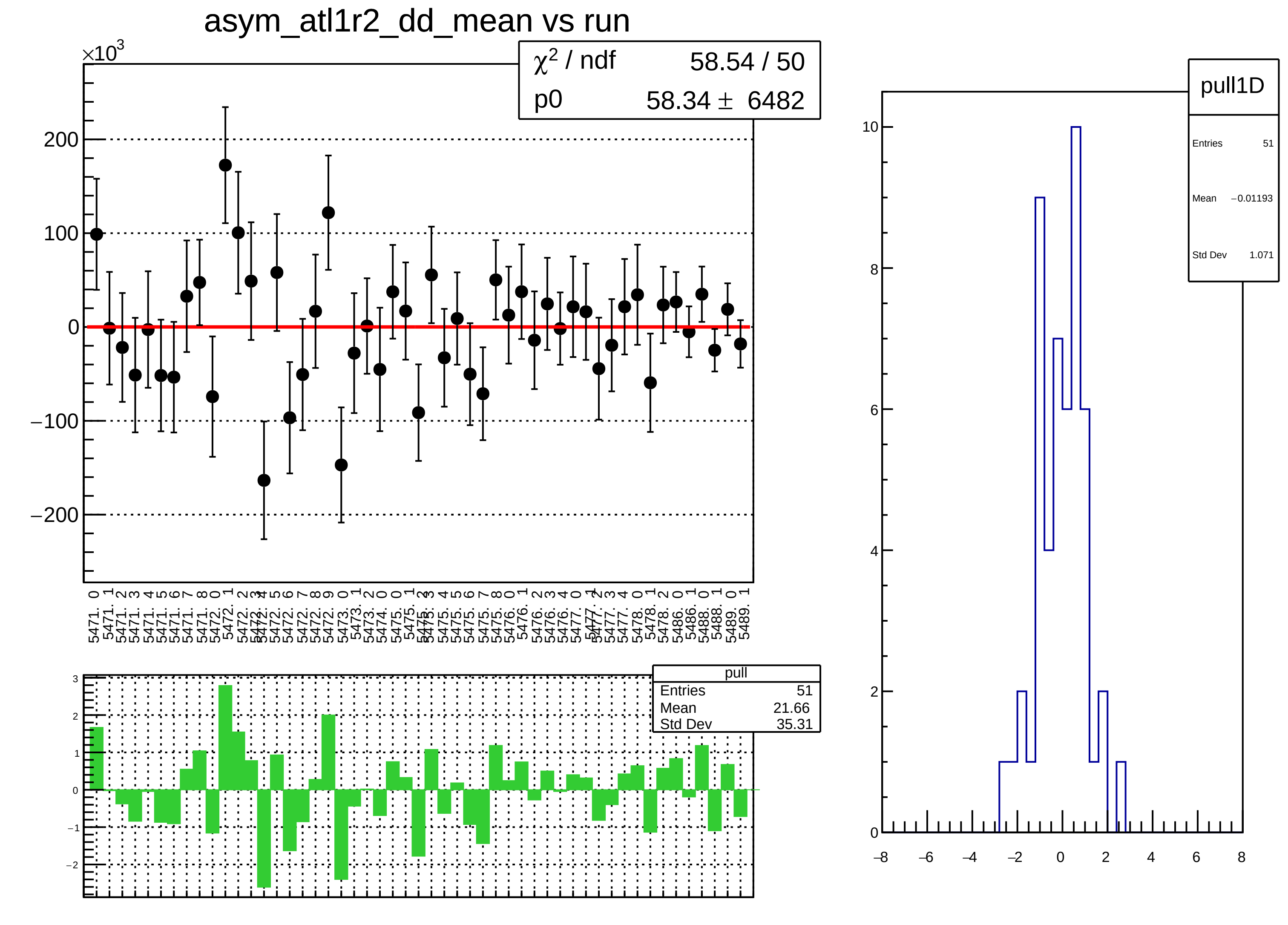

reg_asym_atl1r2_dd_rms vs run
χ2 / ndf 5380 / 50
p0 1620 ± 1.637
2100
2000
1900
1800
1700
1600
1500



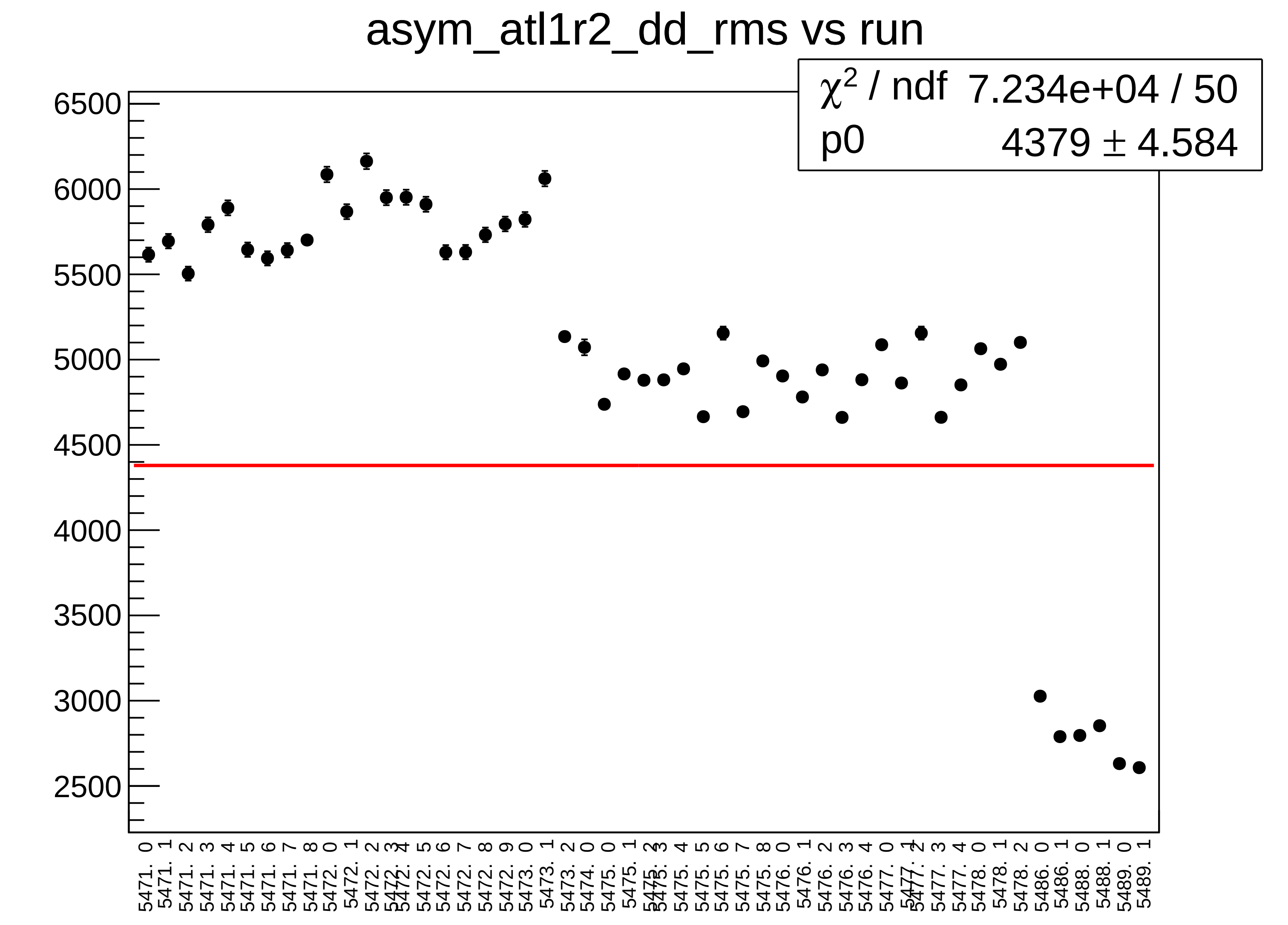
asym_atl1r2_dd_correction_mean vs run
χ^2 / ndf 52.71 / 50
p0 4879 ± 5363
pull
Entries 51
Mean −10.21
Std Dev 10.97
pull1D
Entries 51
Mean −0.01644
Std Dev 1.016



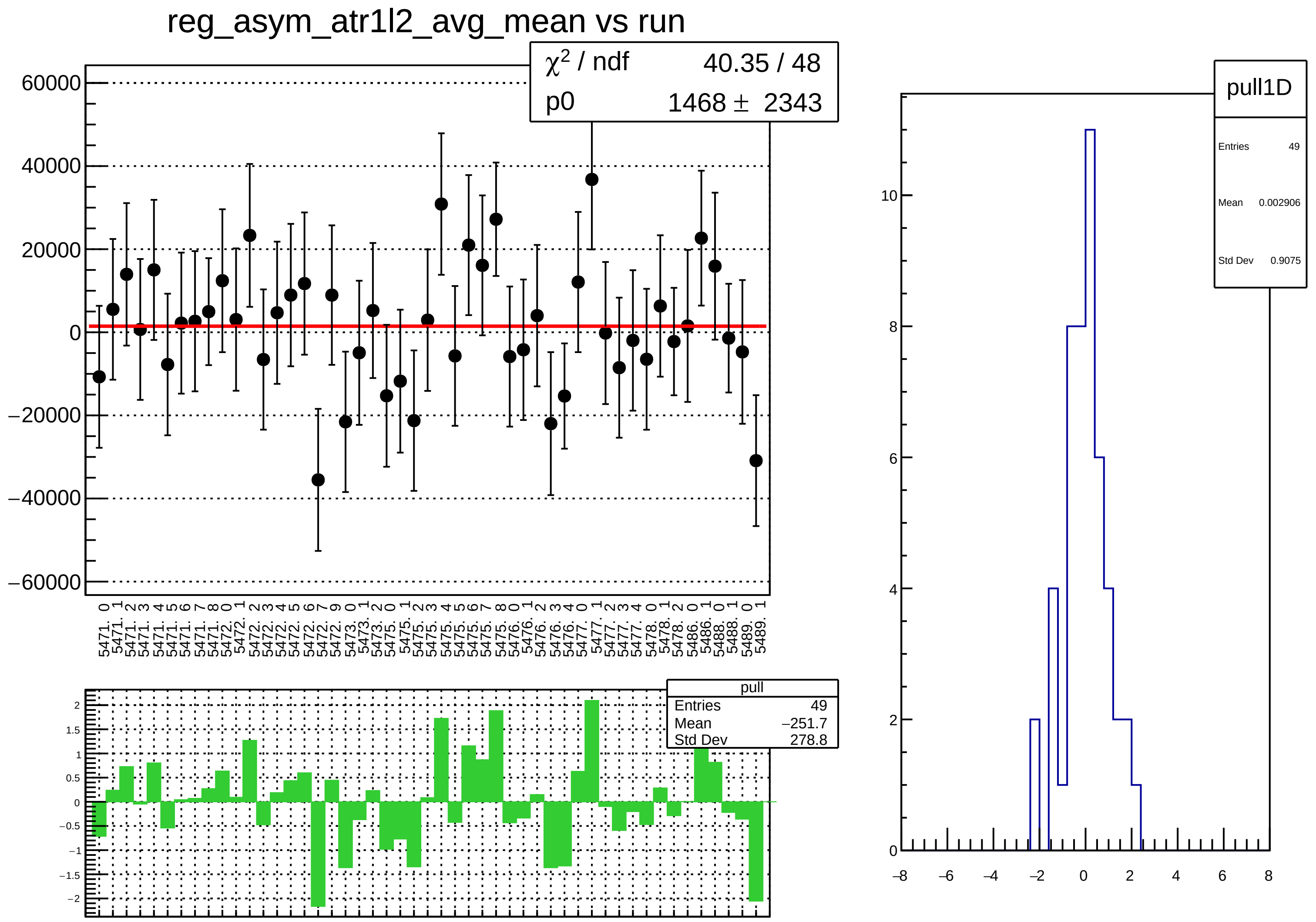
asym_atl1r2_dd_correction_rms vs run
χ^2 / ndf 1.742e+05 / 50
p0 3415 ± 3.792
6000
5000
4000
3000
2000
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



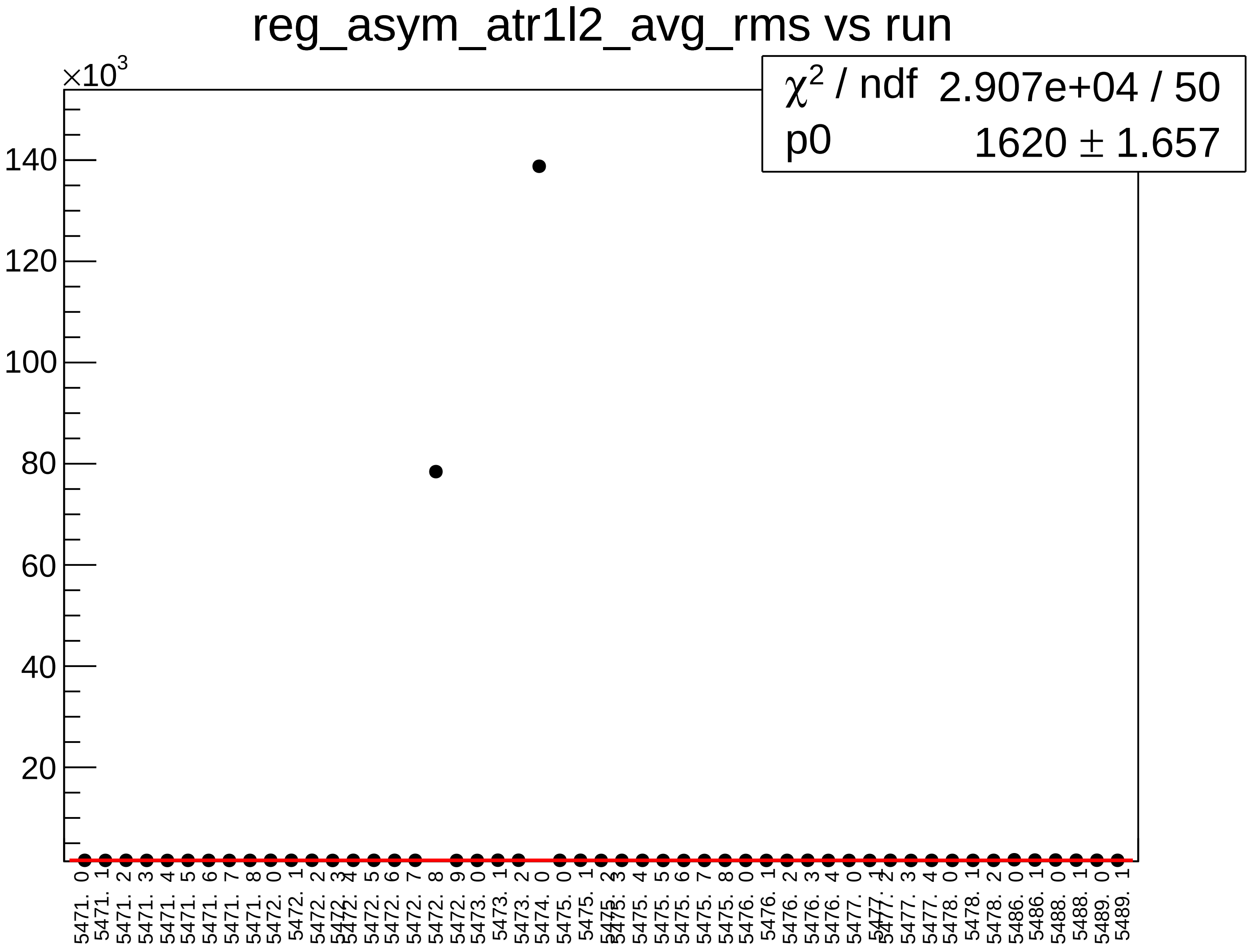
asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 58.54 / 50
p0 58.34 ± 6482
pull
Entries 51
Mean 21.66
Std Dev 35.31
pull1D
Entries 51
Mean −0.01193
Std Dev 1.071



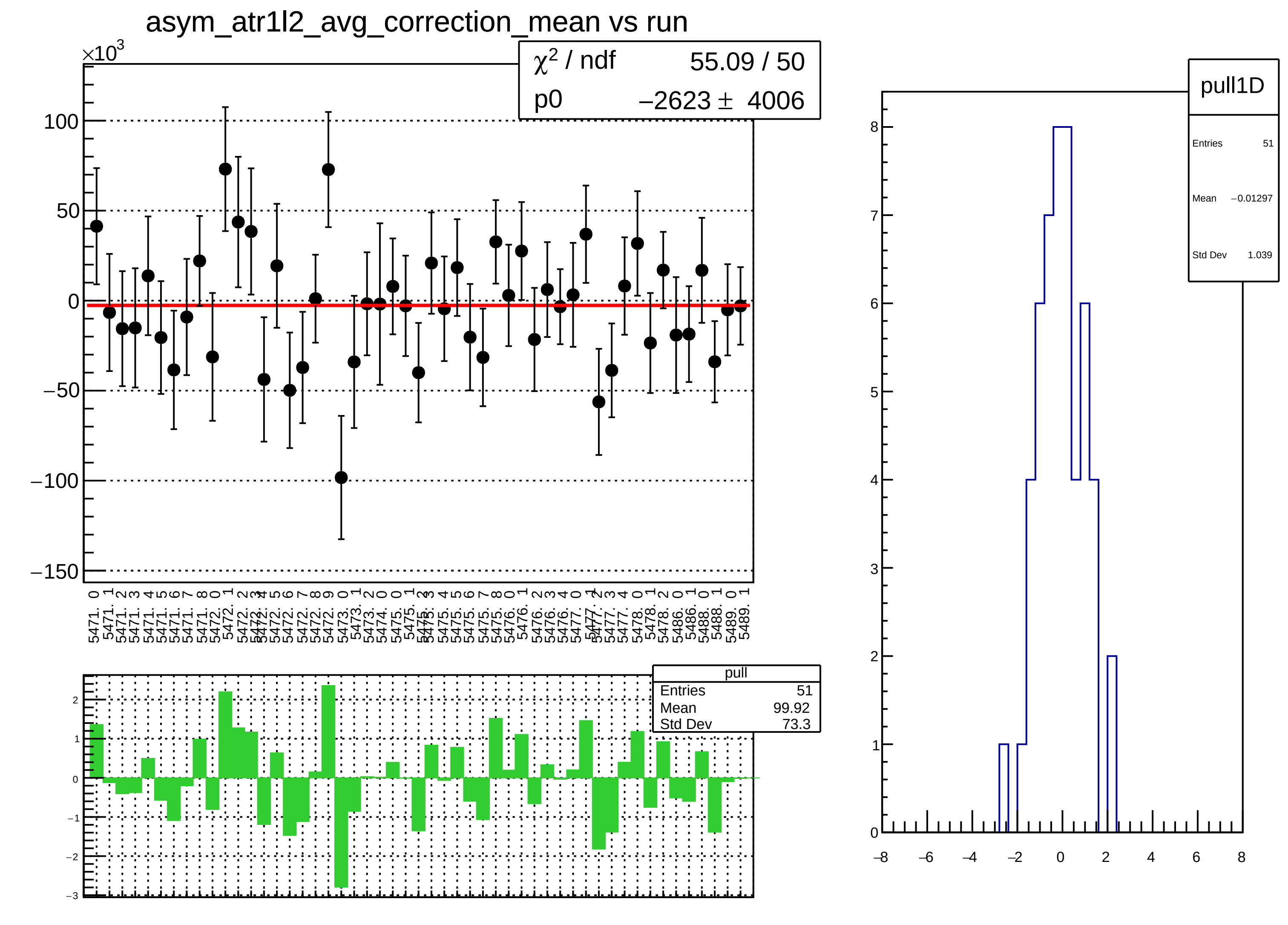
asym_atl1r2_dd_rms vs run
χ^2 / ndf 7.234e+04 / 50
p0 4379 ± 4.584
6500
6000
5500
5000
4500
4000
3500
3000
2500



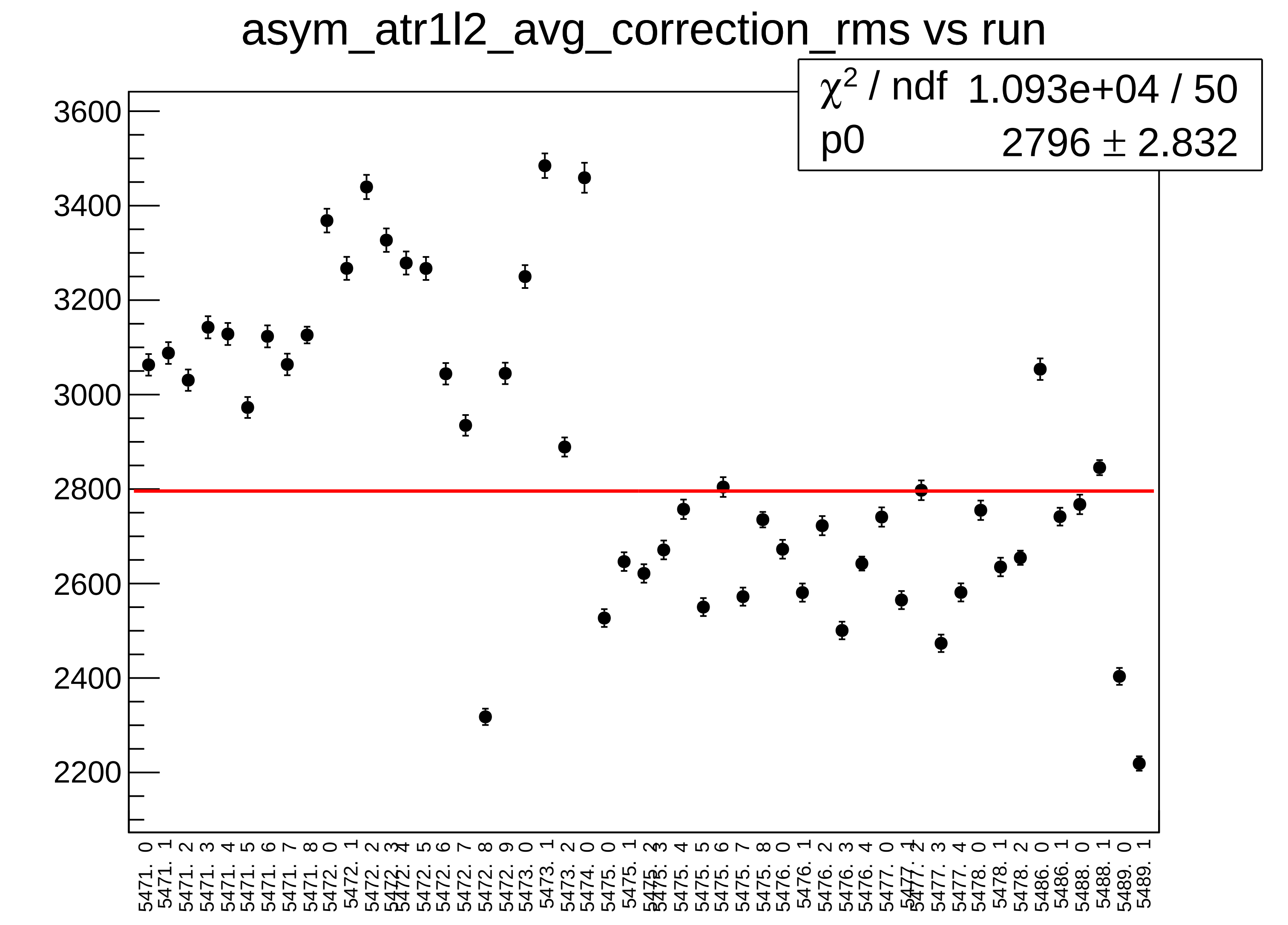
reg_asym_atr1l2_avg_mean vs run
χ^2 / ndf 40.35 / 48
p0 1468 ± 2343
60000
40000
20000
0
−20000
−40000
−60000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5475. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean −251.7
Std Dev 278.8
pull1D
Entries 49
Mean 0.002906
Std Dev 0.9075



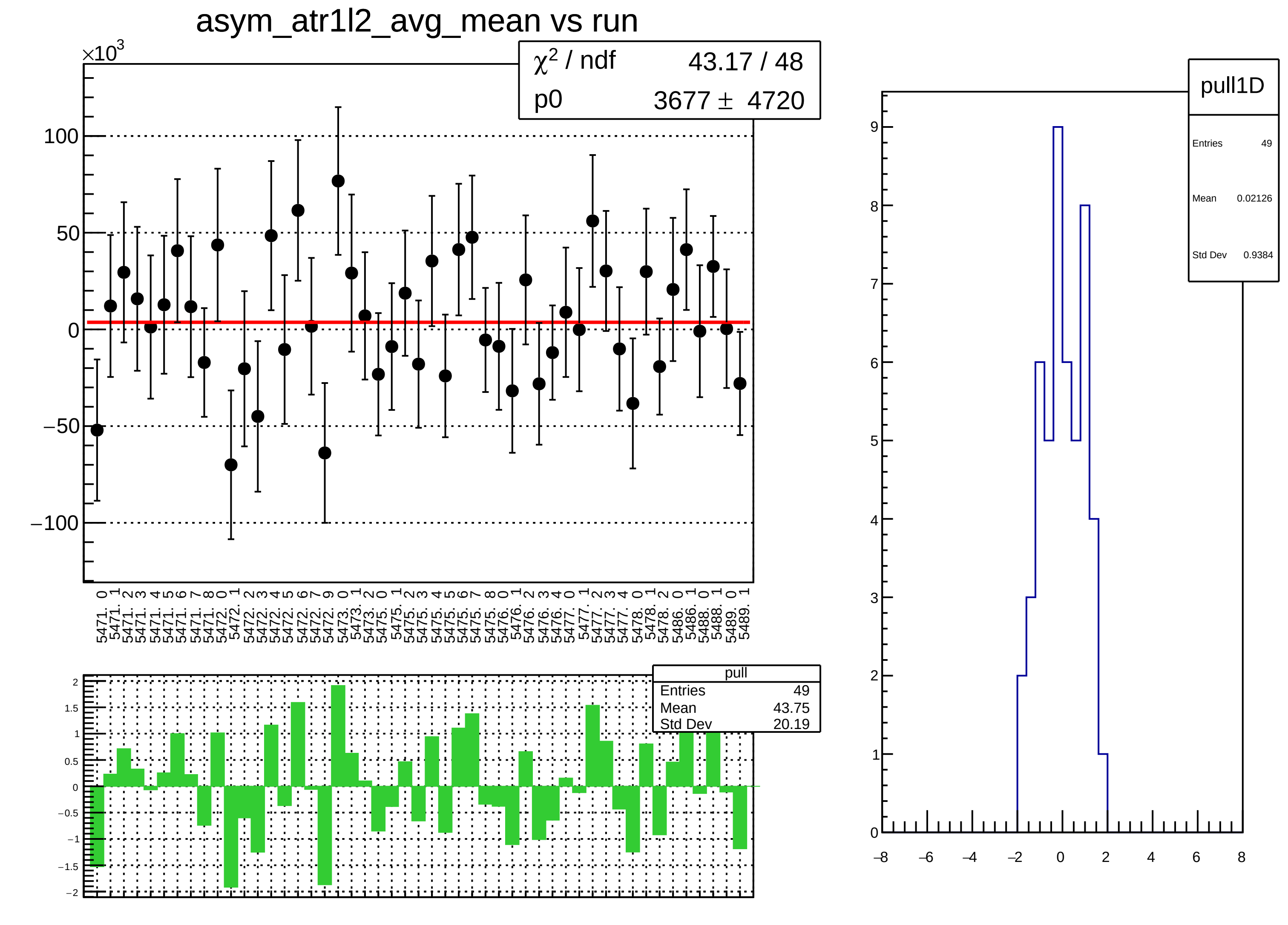
reg_asym_atr1l2_avg_rms vs run
$\times 10^3$
χ^2 / ndf 2.907e+04 / 50
p0 1620 ± 1.657
140
120
100
80
60
40
20



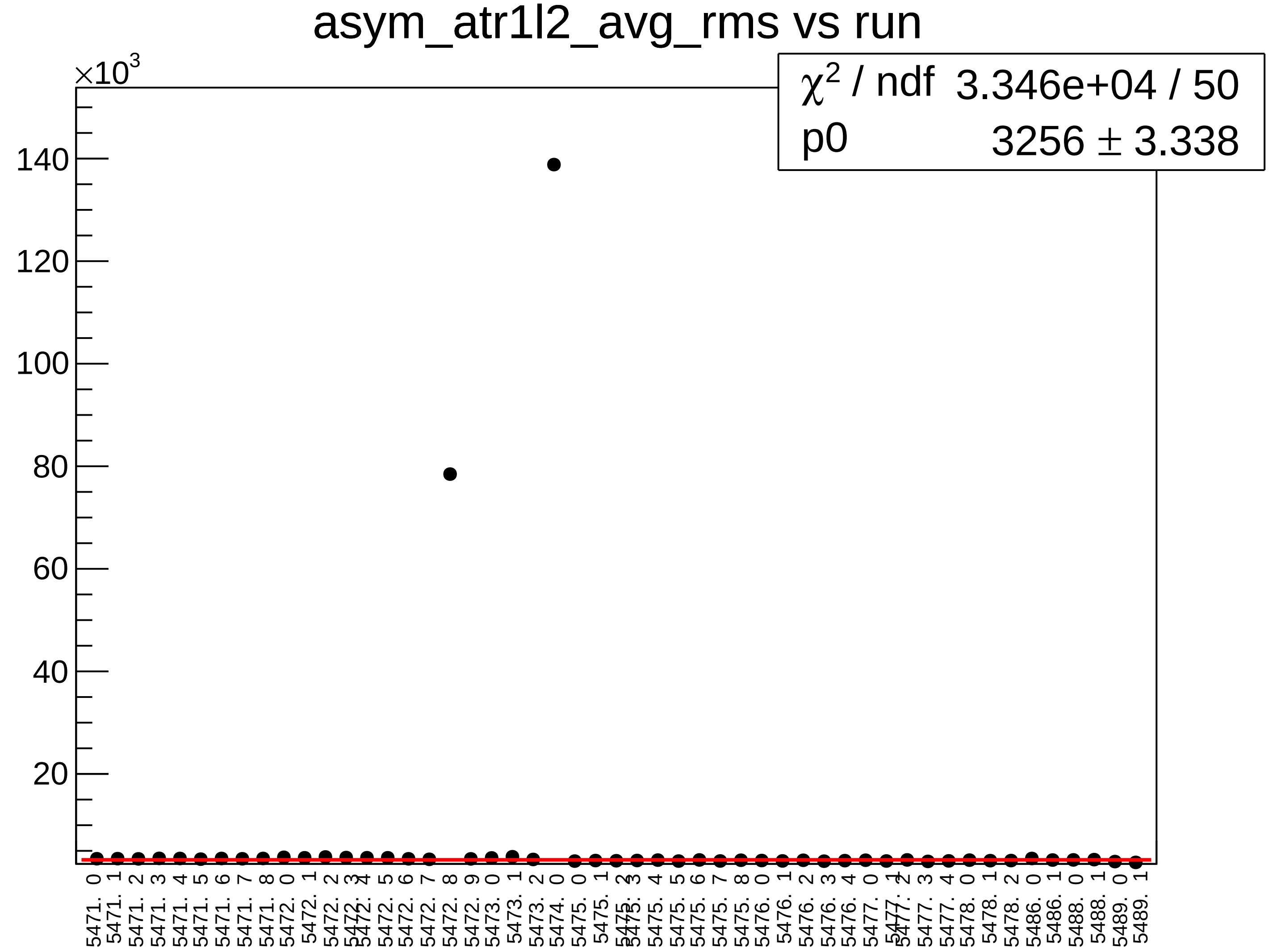
asym_atr1l2_avg_correction_mean vs run
χ^2 / ndf 55.09 / 50
p0 −2623 ± 4006
×10^3
pull
Entries 51
Mean 99.92
Std Dev 73.3
pull1D
Entries 51
Mean −0.01297
Std Dev 1.039



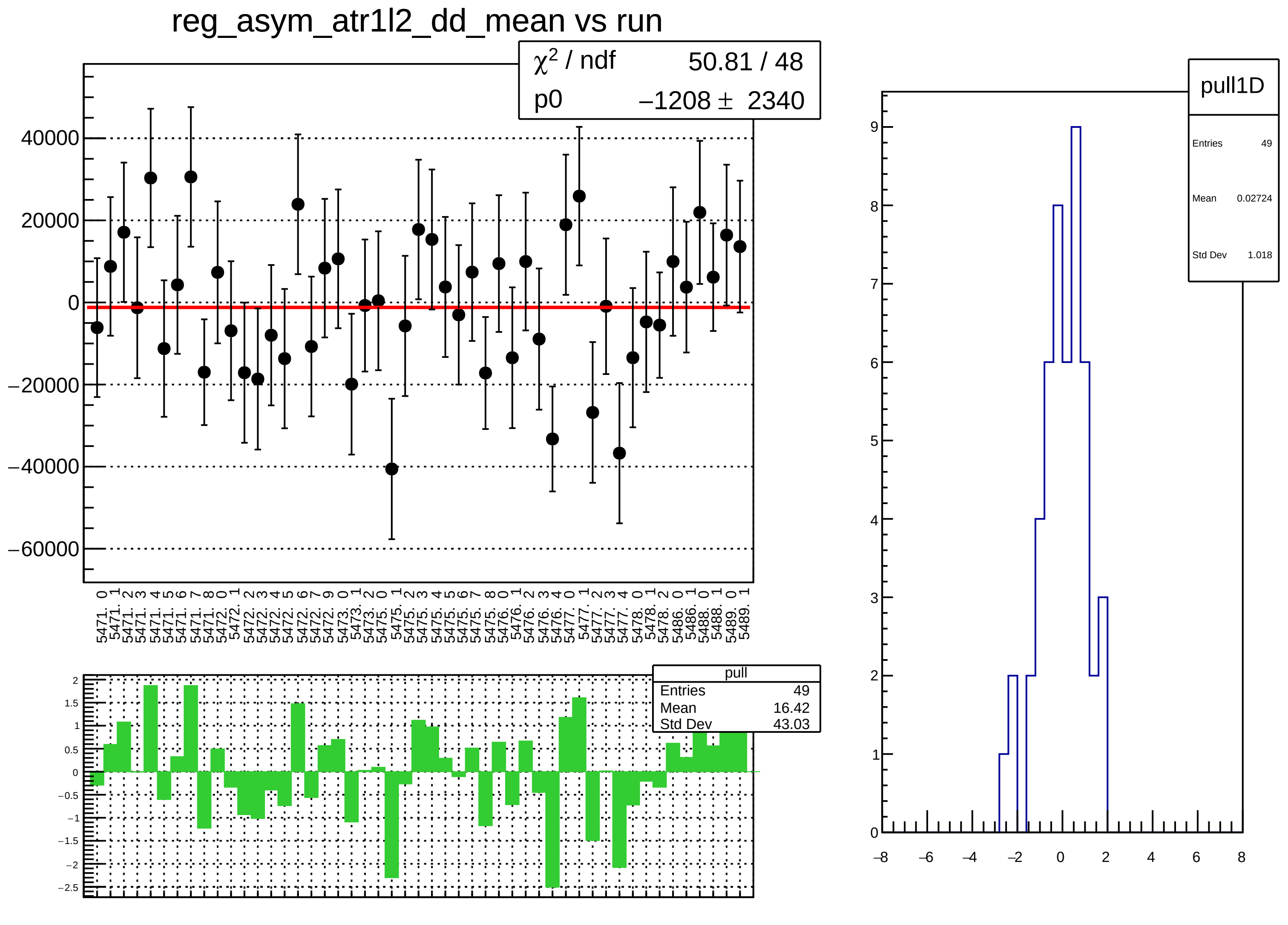
asym_atr1l2_avg_correction_rms vs run
χ^2 / ndf 1.093e+04 / 50
p0 2796 ± 2.832
3600
3400
3200
3000
2800
2600
2400
2200



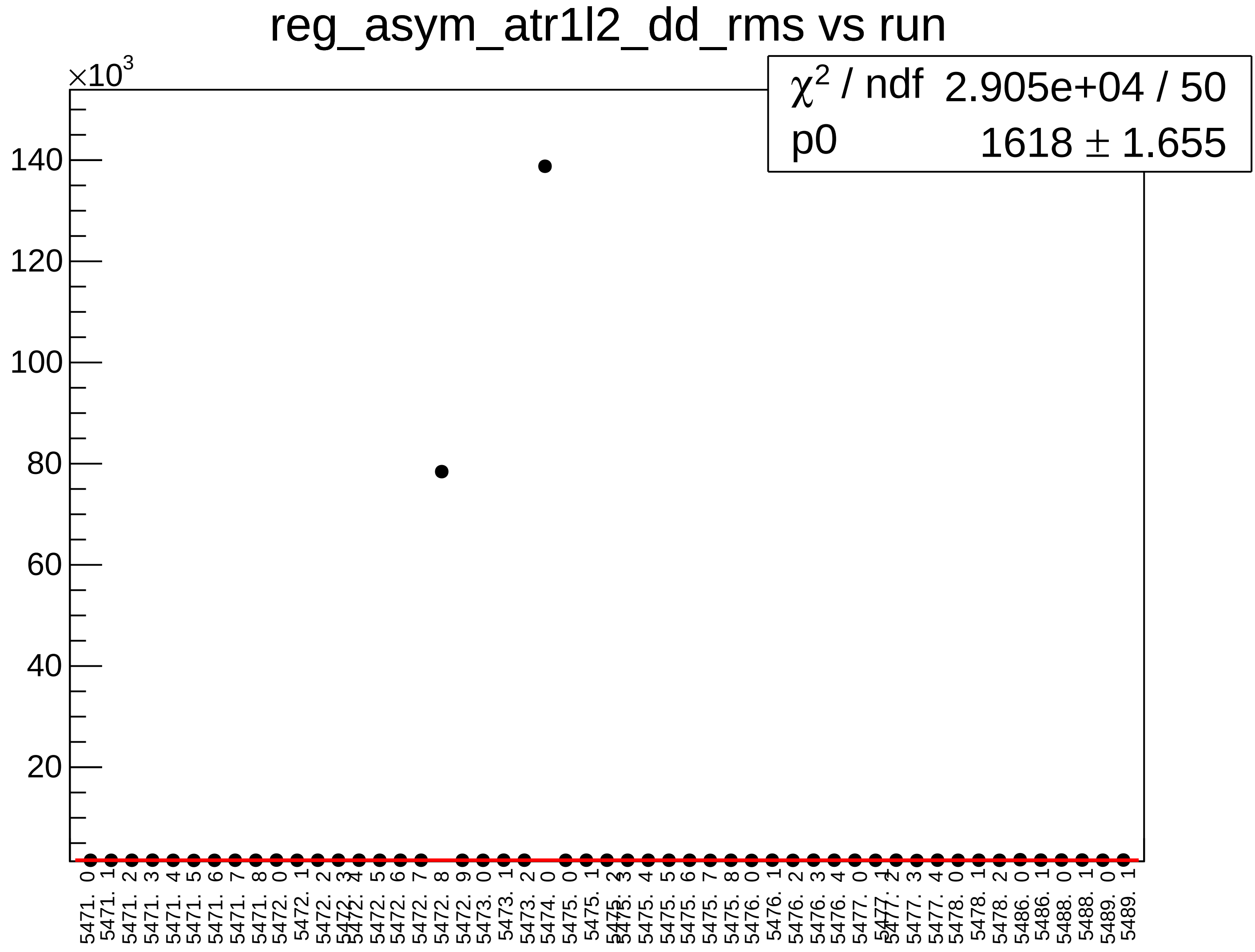
asym_atr1l2_avg_mean vs run
$\times 10^{3}$
χ^2 / ndf 43.17 / 48
p0 3677 ± 4720
100
50
0
−50
−100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 43.75
Std Dev 20.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean 0.02126
Std Dev 0.9384
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8



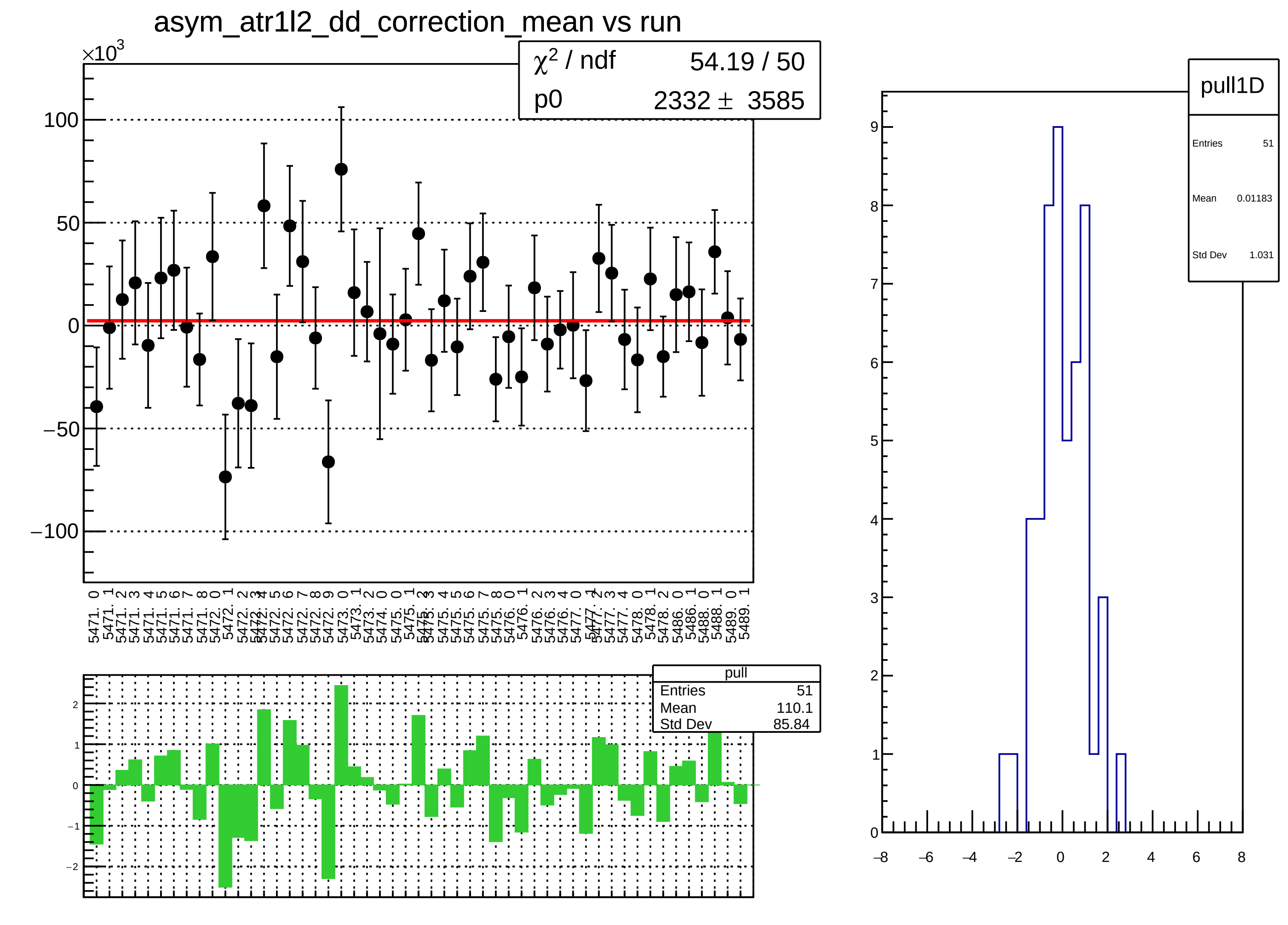
asym_atr1l2_avg_rms vs run
×10^3
χ2 / ndf 3.346e+04 / 50
p0 3256 ± 3.338
140
120
100
80
60
40
20



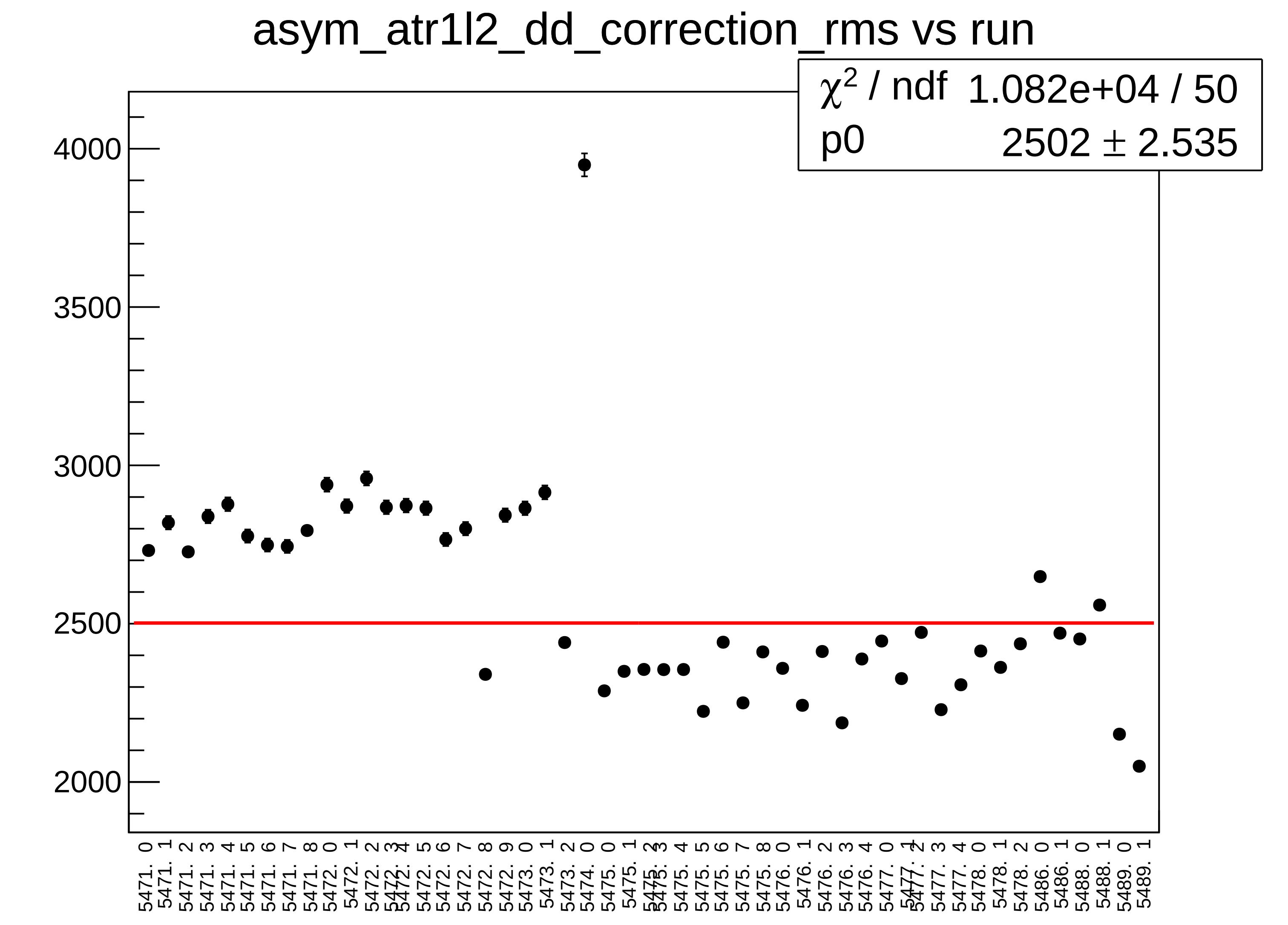
reg_asym_atr1l2_dd_mean vs run
χ2 / ndf 50.81 / 48
p0 −1208 ± 2340
pull
Entries 49
Mean 16.42
Std Dev 43.03
pull1D
Entries 49
Mean 0.02724
Std Dev 1.018



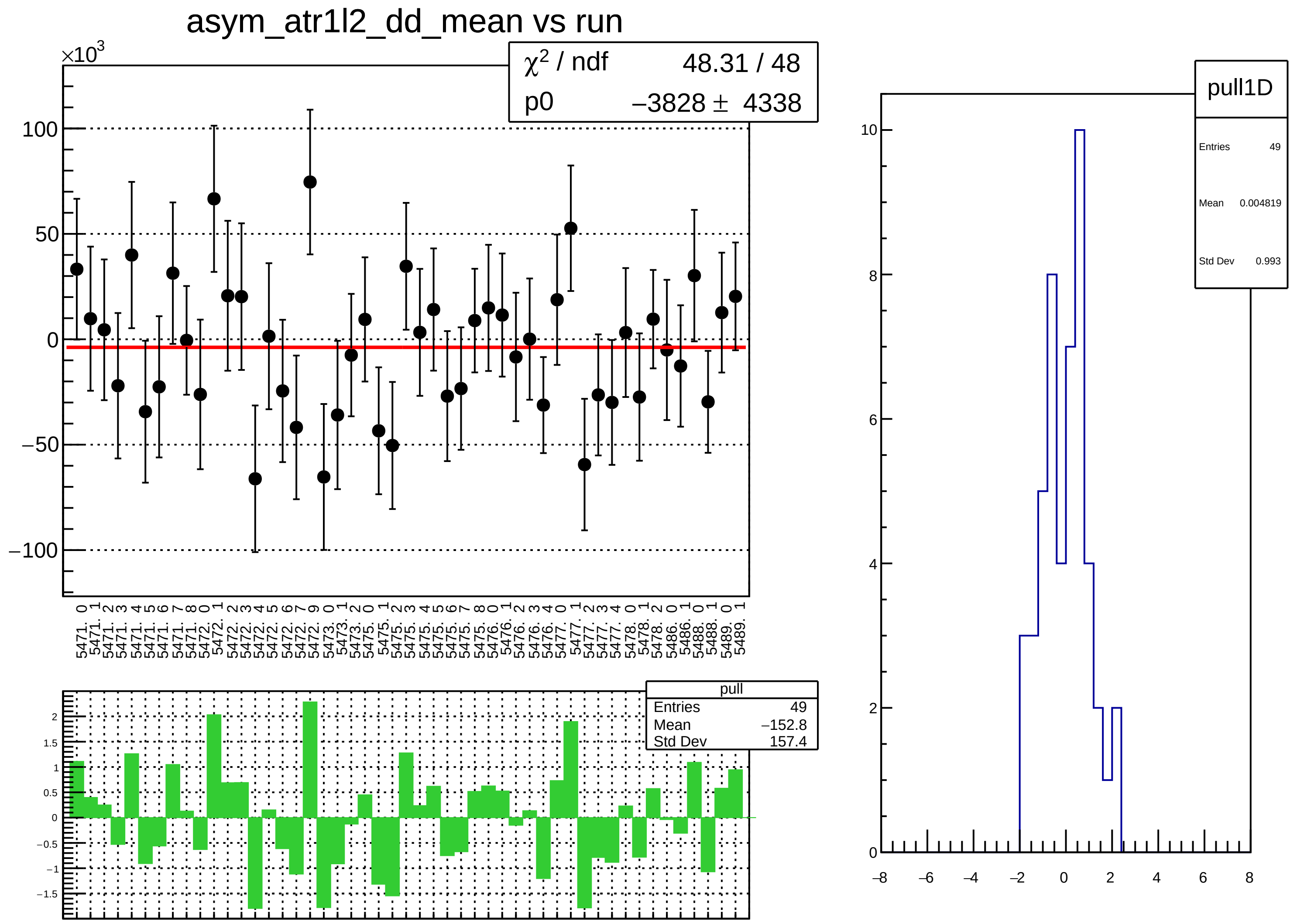
reg_asym_atr1l2_dd_rms vs run
×10^3
χ2 / ndf 2.905e+04 / 50
p0 1618 ± 1.655
140
120
100
80
60
40
20



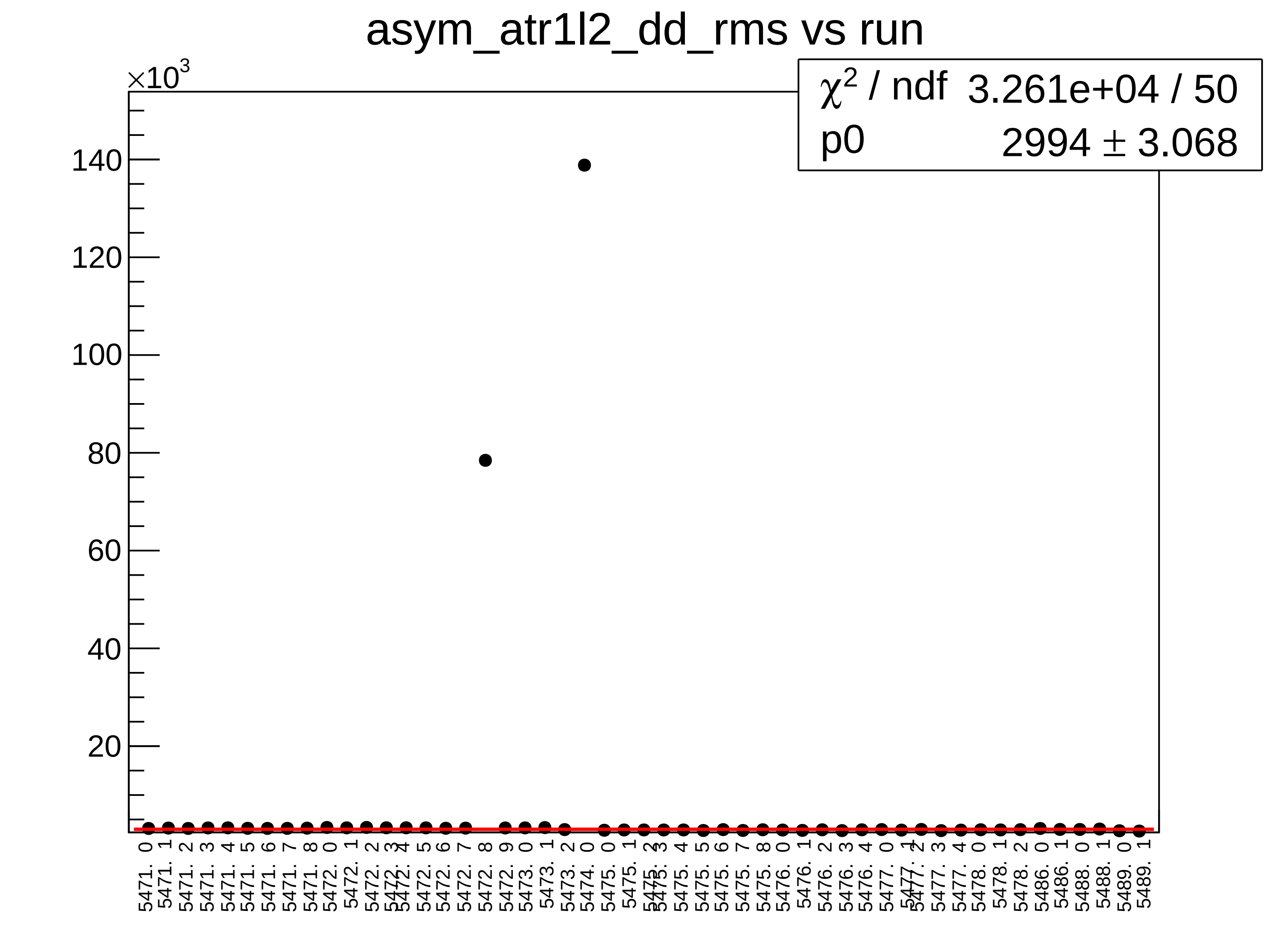
asym_atr1l2_dd_correction_mean vs run
χ2 / ndf 54.19 / 50
p0 2332 ± 3585
×103
pull
Entries 51
Mean 110.1
Std Dev 85.84
pull1D
Entries 51
Mean 0.01183
Std Dev 1.031



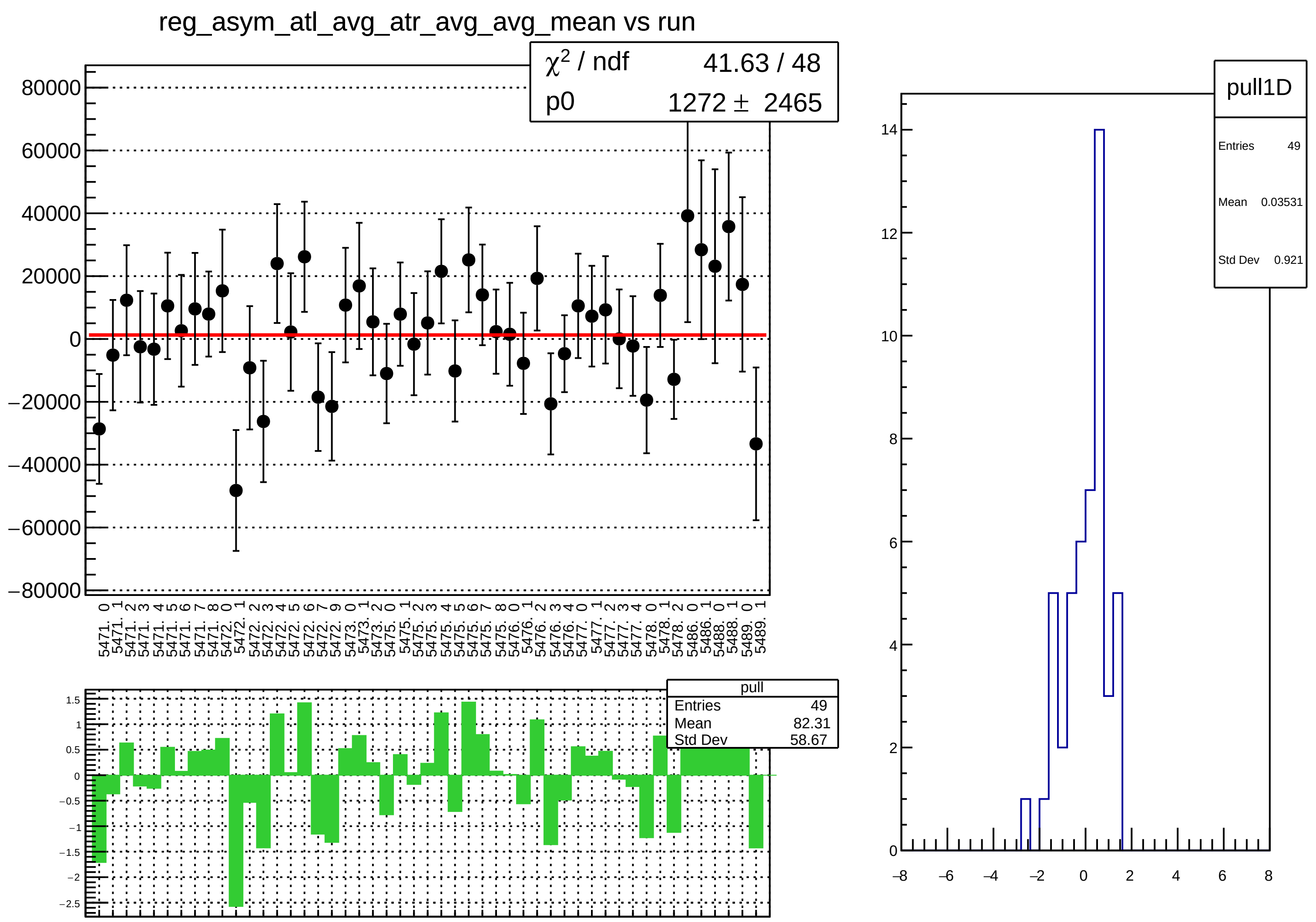
asym_atr1l2_dd_correction_rms vs run
χ^2 / ndf 1.082e+04 / 50
p0 2502 ± 2.535
4000
3500
3000
2500
2000



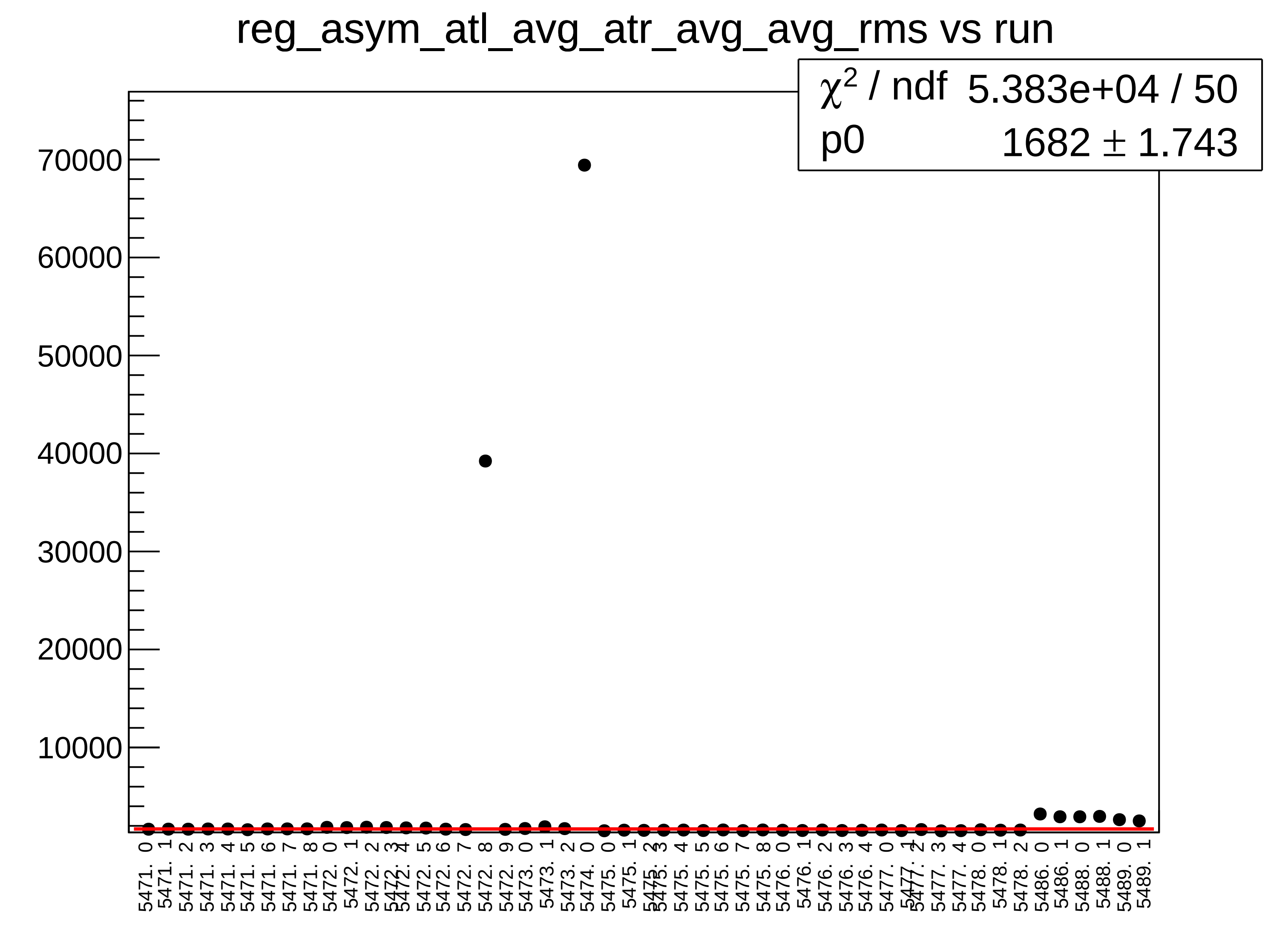
asym_atr1l2_dd_mean vs run
$\times 10^3$
χ^2 / ndf 48.31 / 48
p0 −3828 ± 4338
100
50
0
−50
−100
pull
Entries 49
Mean −152.8
Std Dev 157.4
pull1D
Entries 49
Mean 0.004819
Std Dev 0.993



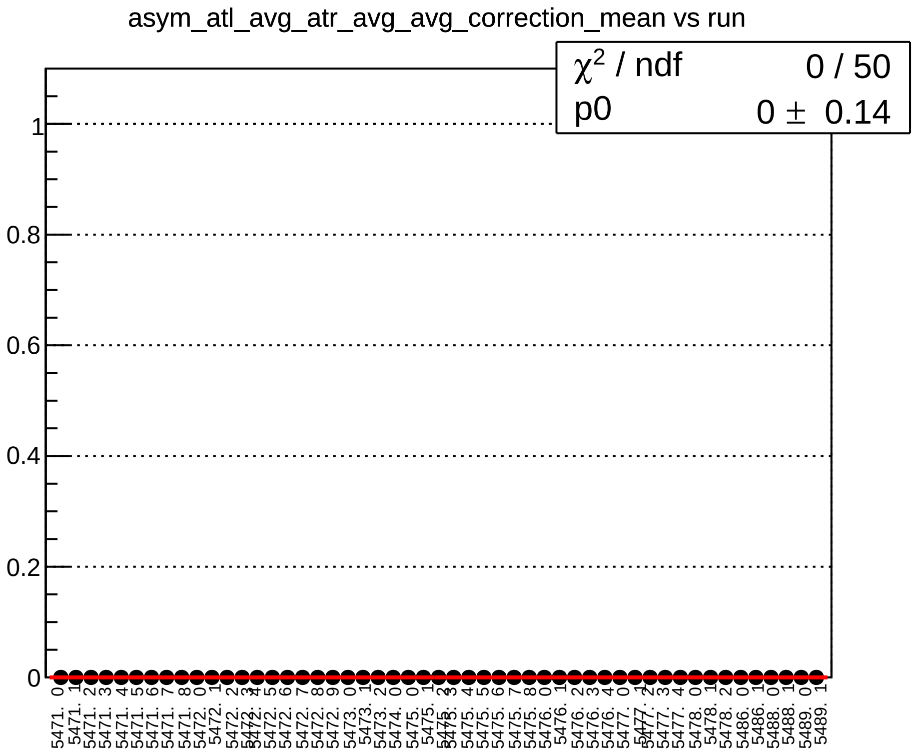
asym_atr1l2_dd_rms vs run
$\times 10^3$
χ^2 / ndf 3.261e+04 / 50
p0 2994 ± 3.068
140
120
100
80
60
40
20



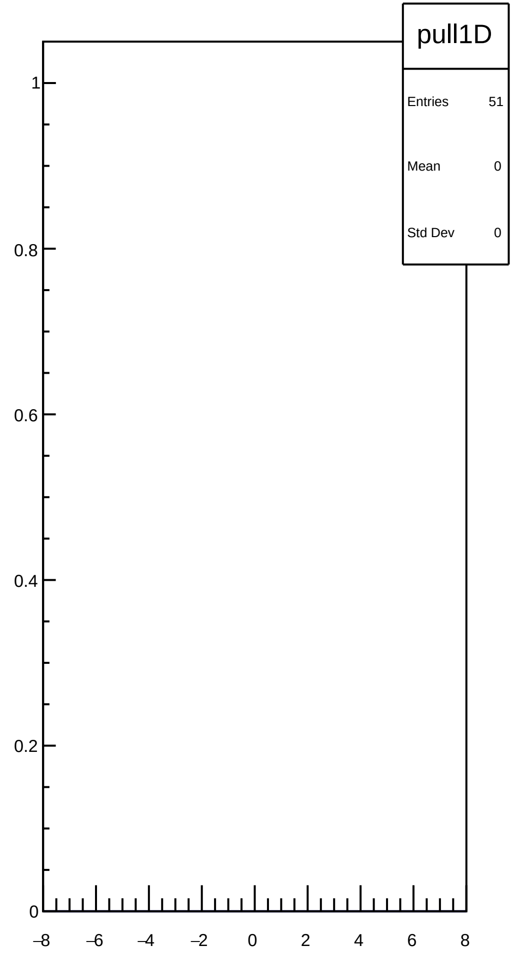
reg_asym_atl_avg_atr_avg_avg_mean vs run
χ^2 / ndf 41.63 / 48
p0 1272 ± 2465
pull
Entries 49
Mean 82.31
Std Dev 58.67
pull1D
Entries 49
Mean 0.03531
Std Dev 0.921



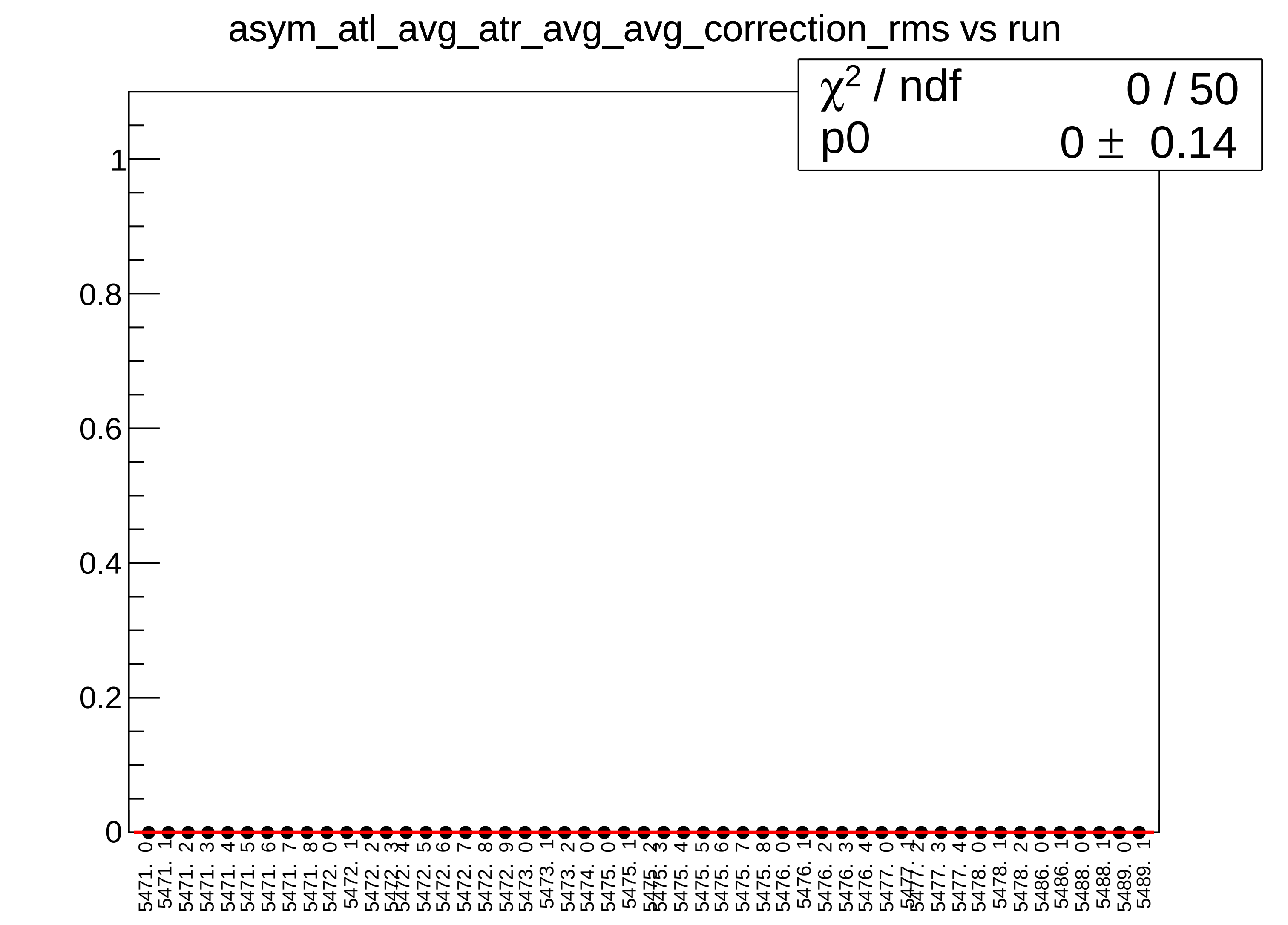
reg_asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 5.383e+04 / 50
p0 1682 ± 1.743
70000
60000
50000
40000
30000
20000
10000



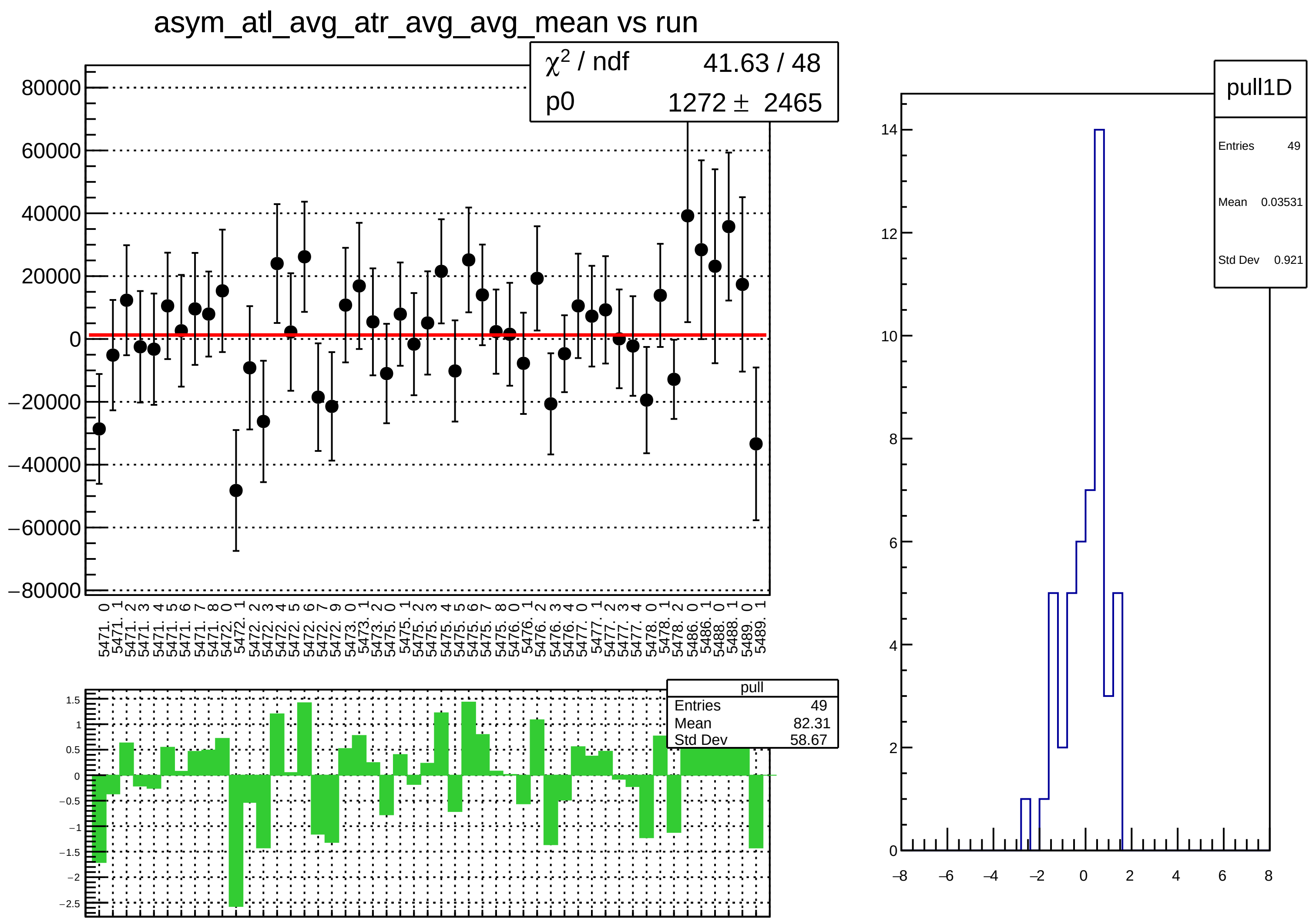
asym_atl_avg_atr_avg_avg_correction_mean vs run
χ^2 / ndf 0 / 50
p0 0 ± 0.14



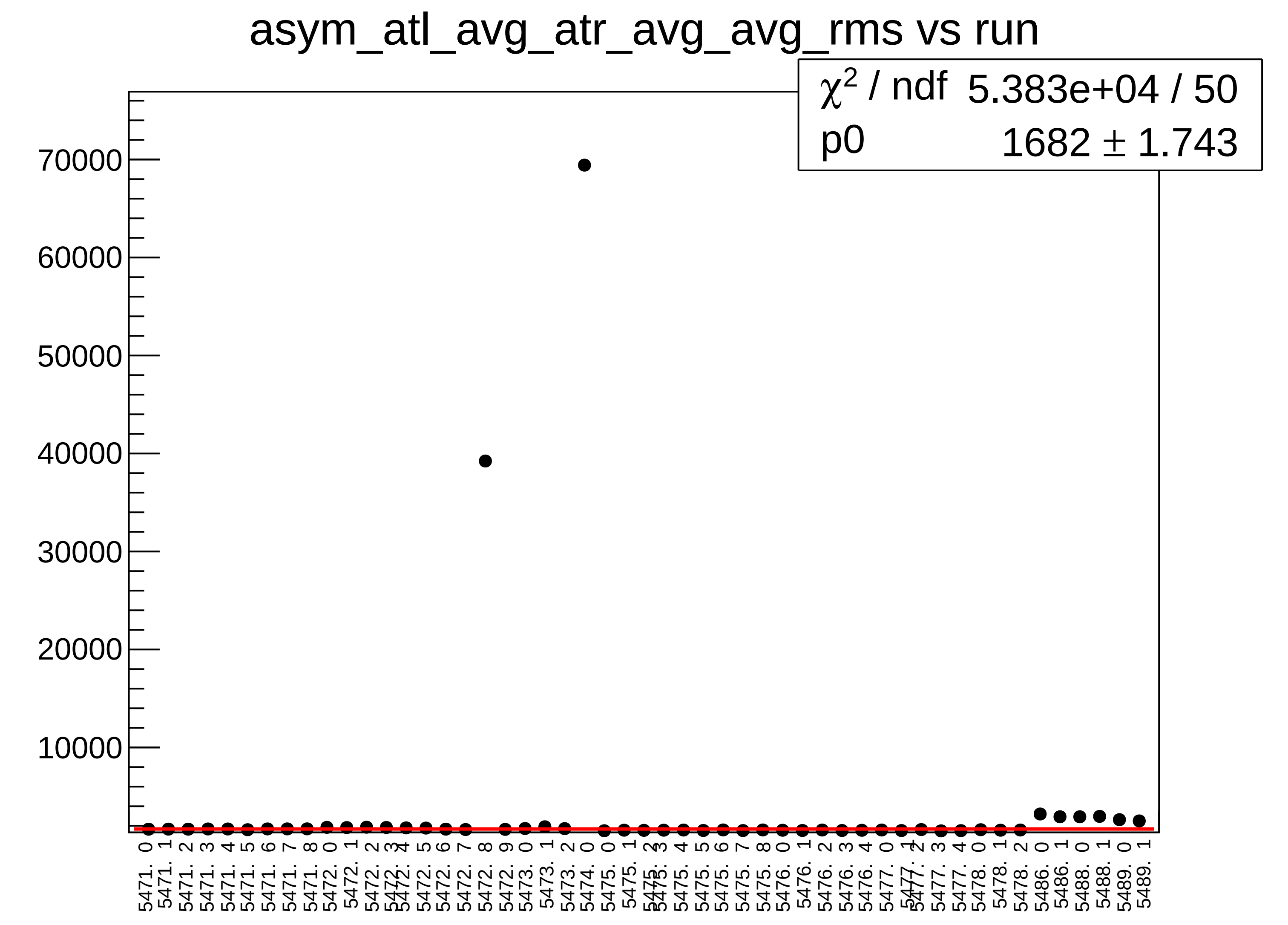
pull1D
Entries 51
Mean 0
Std Dev 0

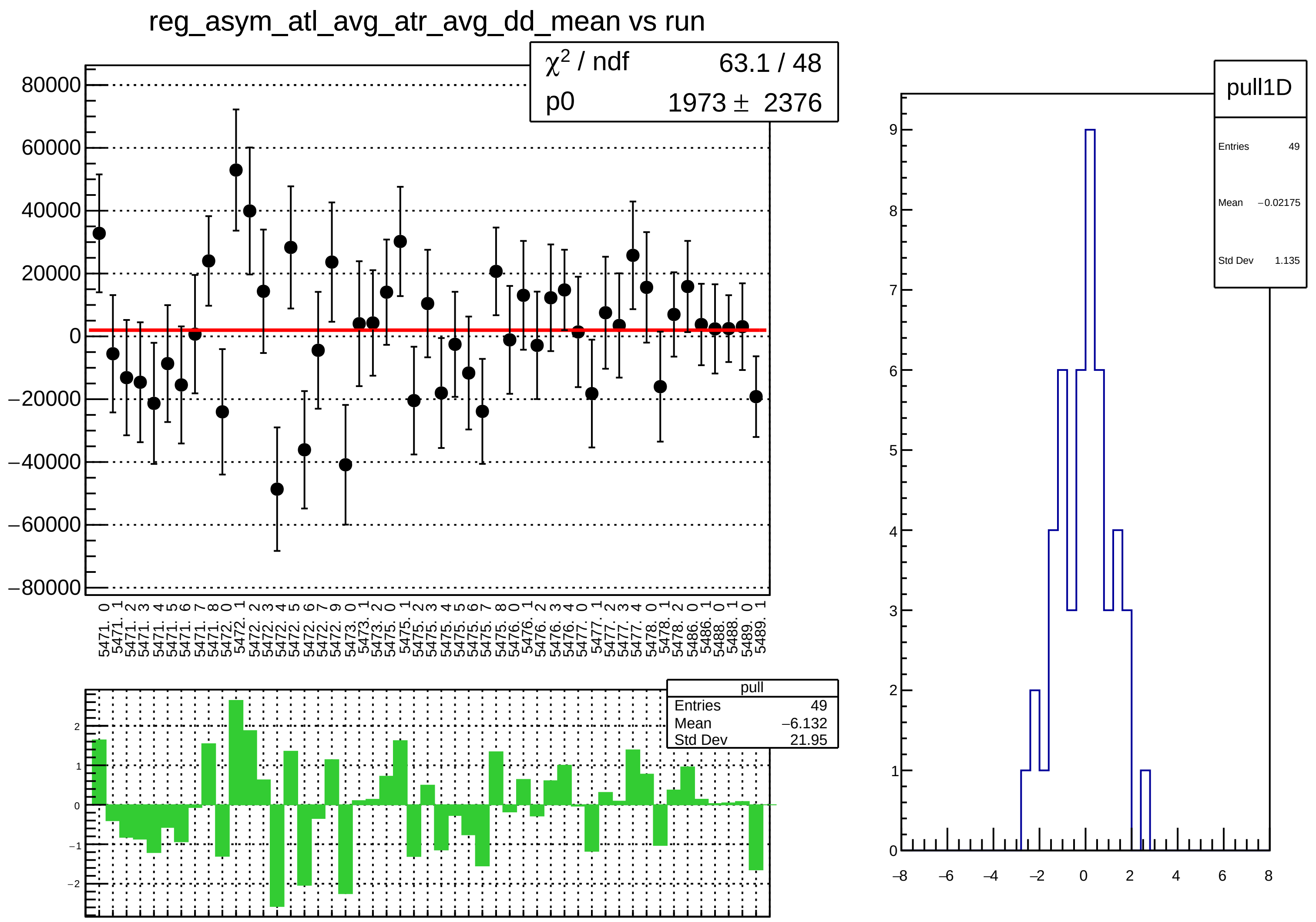


asym_atl_avg_atr_avg_avg_correction_rms vs run
χ2 / ndf 0 / 50
p0 0 ± 0.14
0
0.2
0.4
0.6
0.8
1

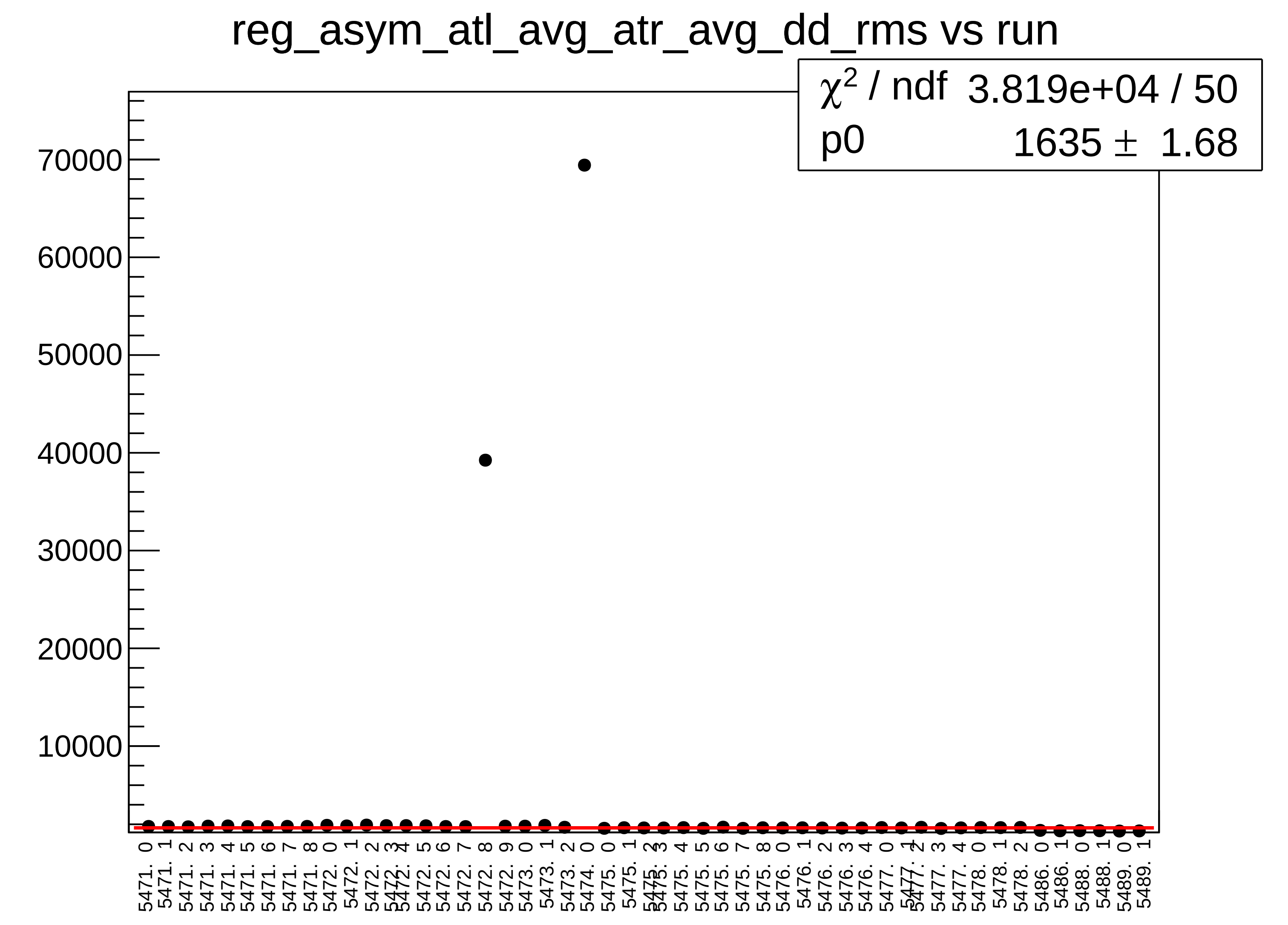


asym_atl_avg_atr_avg_avg_mean vs run
χ^2 / ndf 41.63 / 48
p0 1272 ± 2465
pull
Entries 49
Mean 82.31
Std Dev 58.67
pull1D
Entries 49
Mean 0.03531
Std Dev 0.921


asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 5.383e+04 / 50
p0 1682 ± 1.743
70000
60000
50000
40000
30000
20000
10000

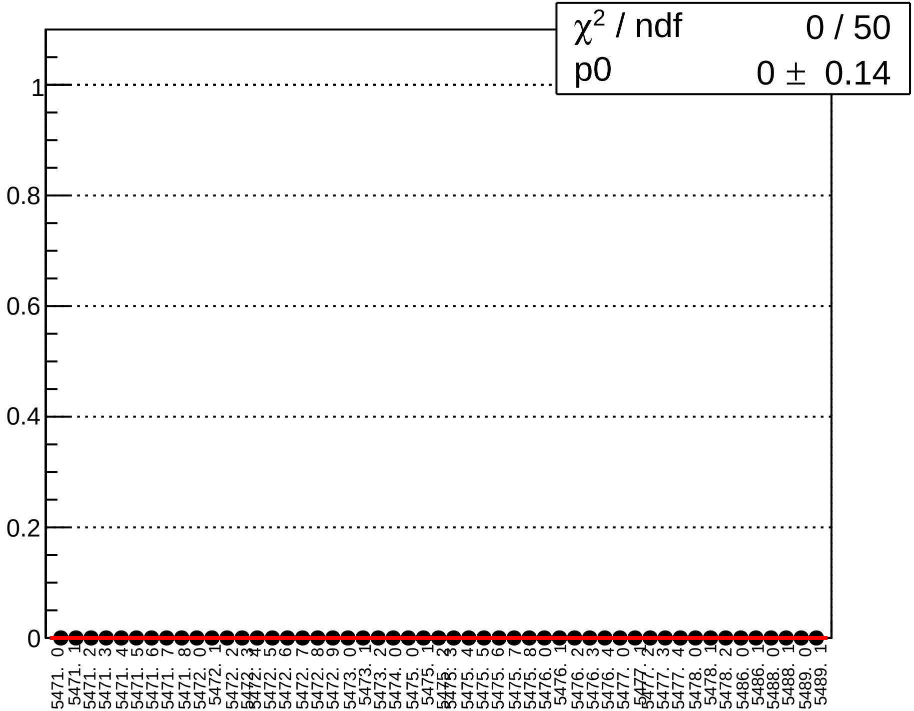


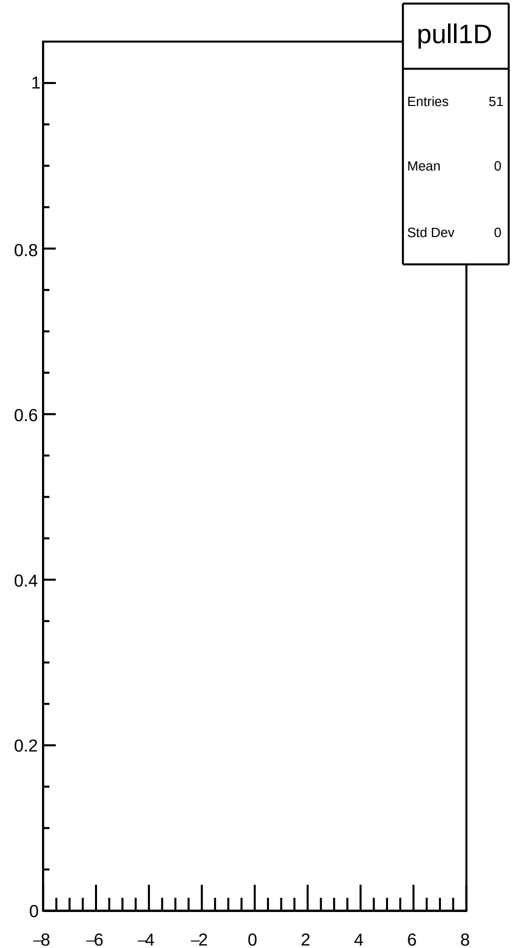
reg_asym_atl_avg_atr_avg_dd_mean vs run
χ2 / ndf 63.1 / 48
p0 1973 ± 2376
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean −6.132
Std Dev 21.95
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.02175
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

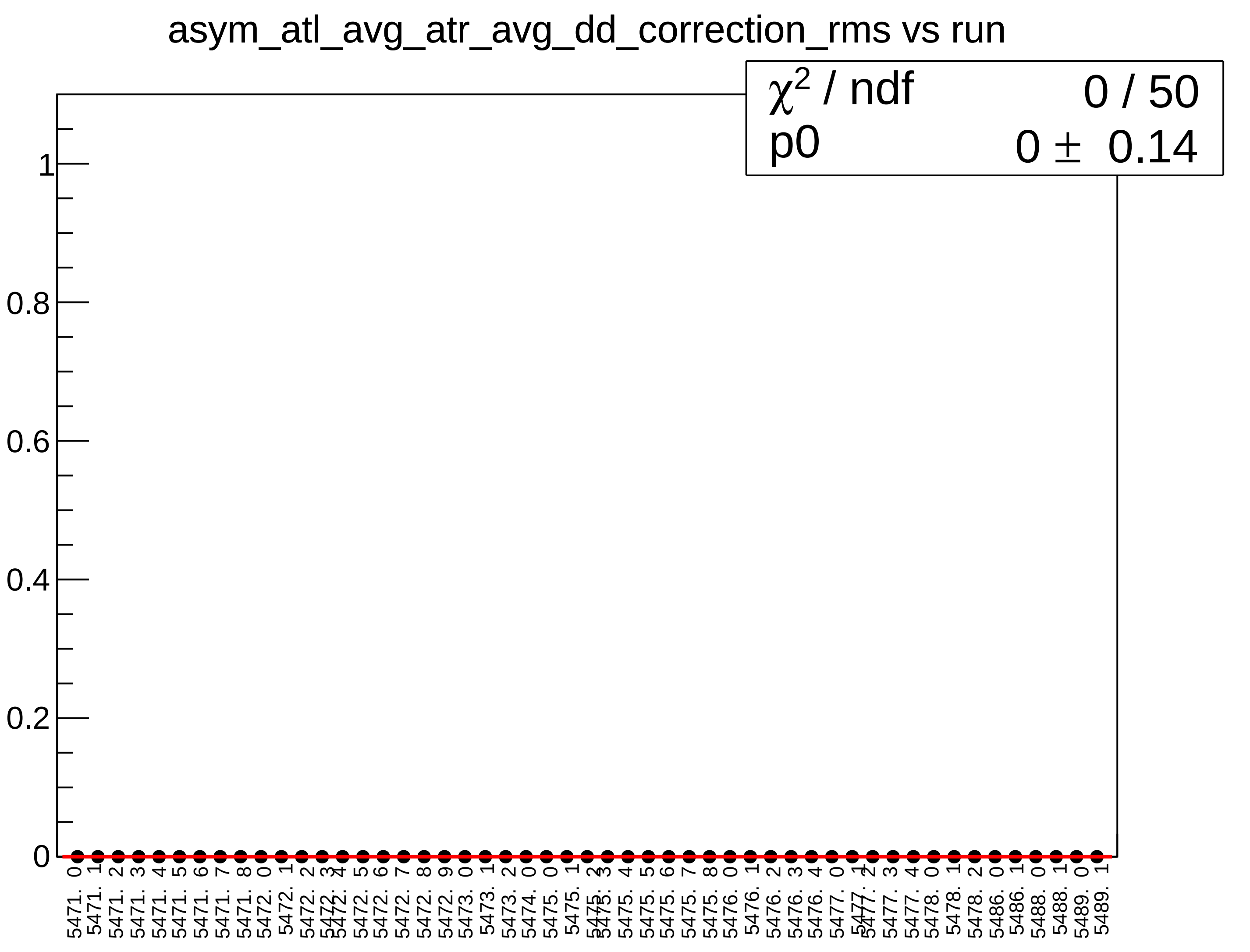


reg_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 3.819e+04 / 50
p0 1635 ± 1.68
70000
60000
50000
40000
30000
20000
10000

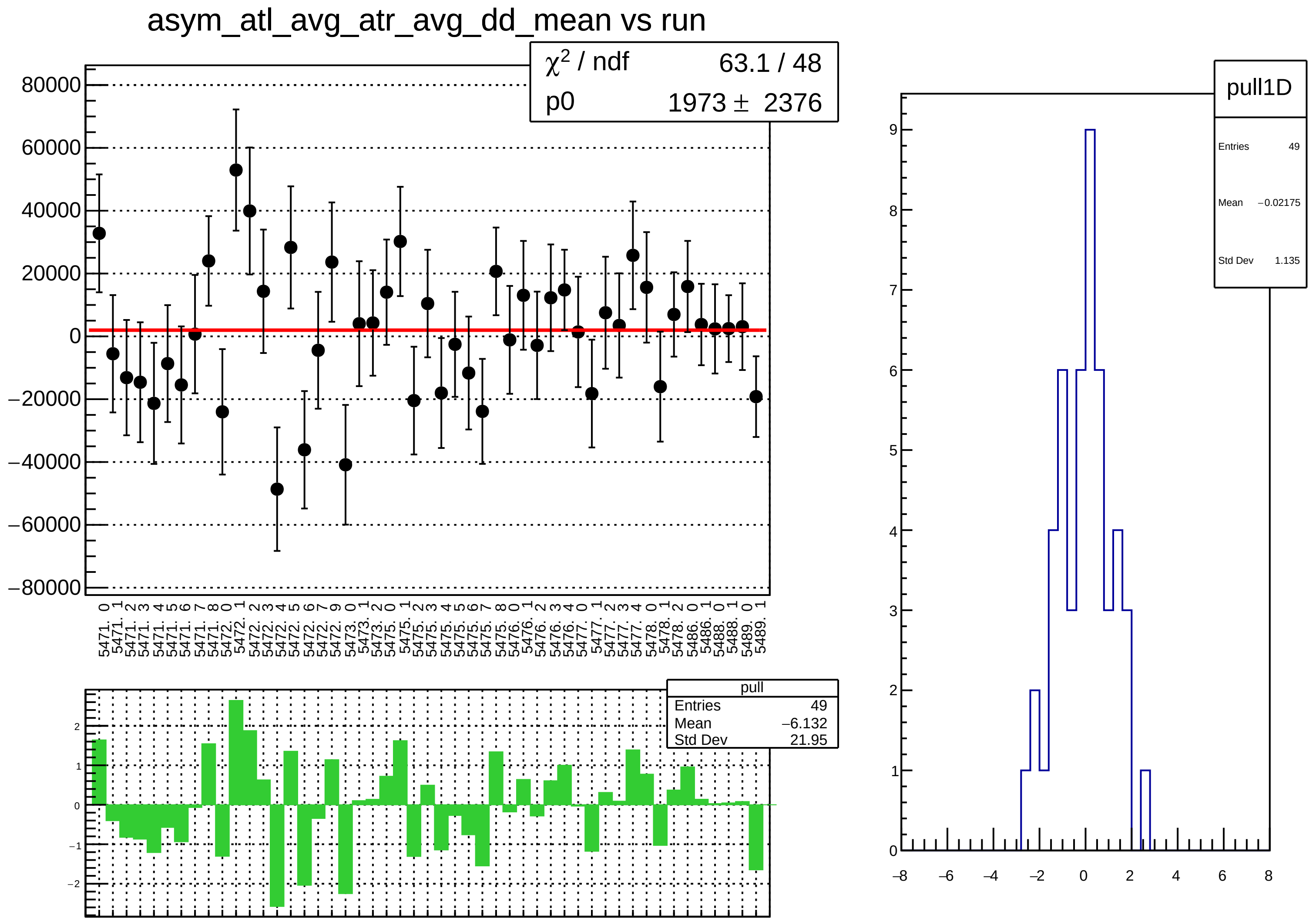
asym_atl_avg_atr_avg_dd_correction_mean vs run



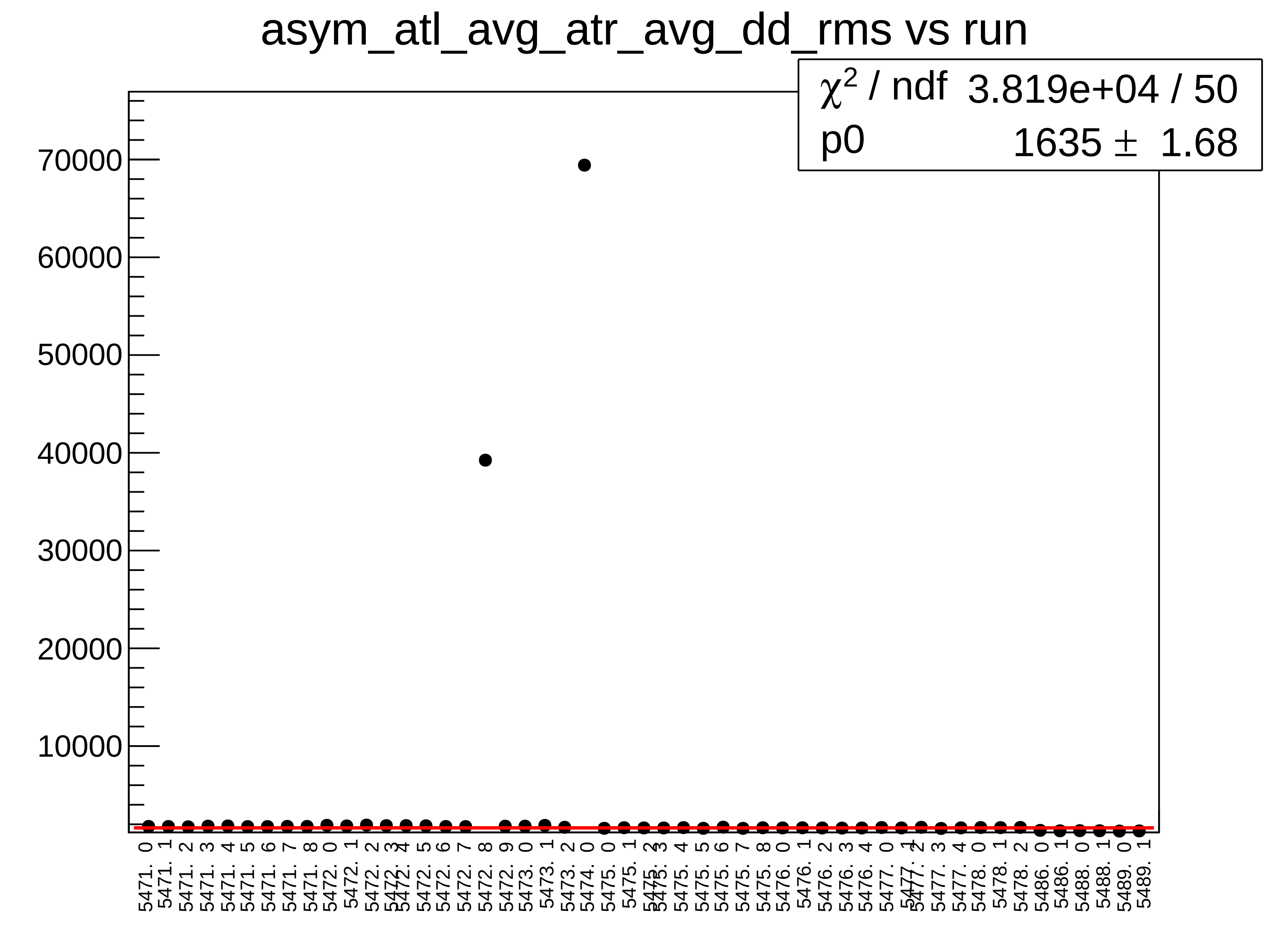




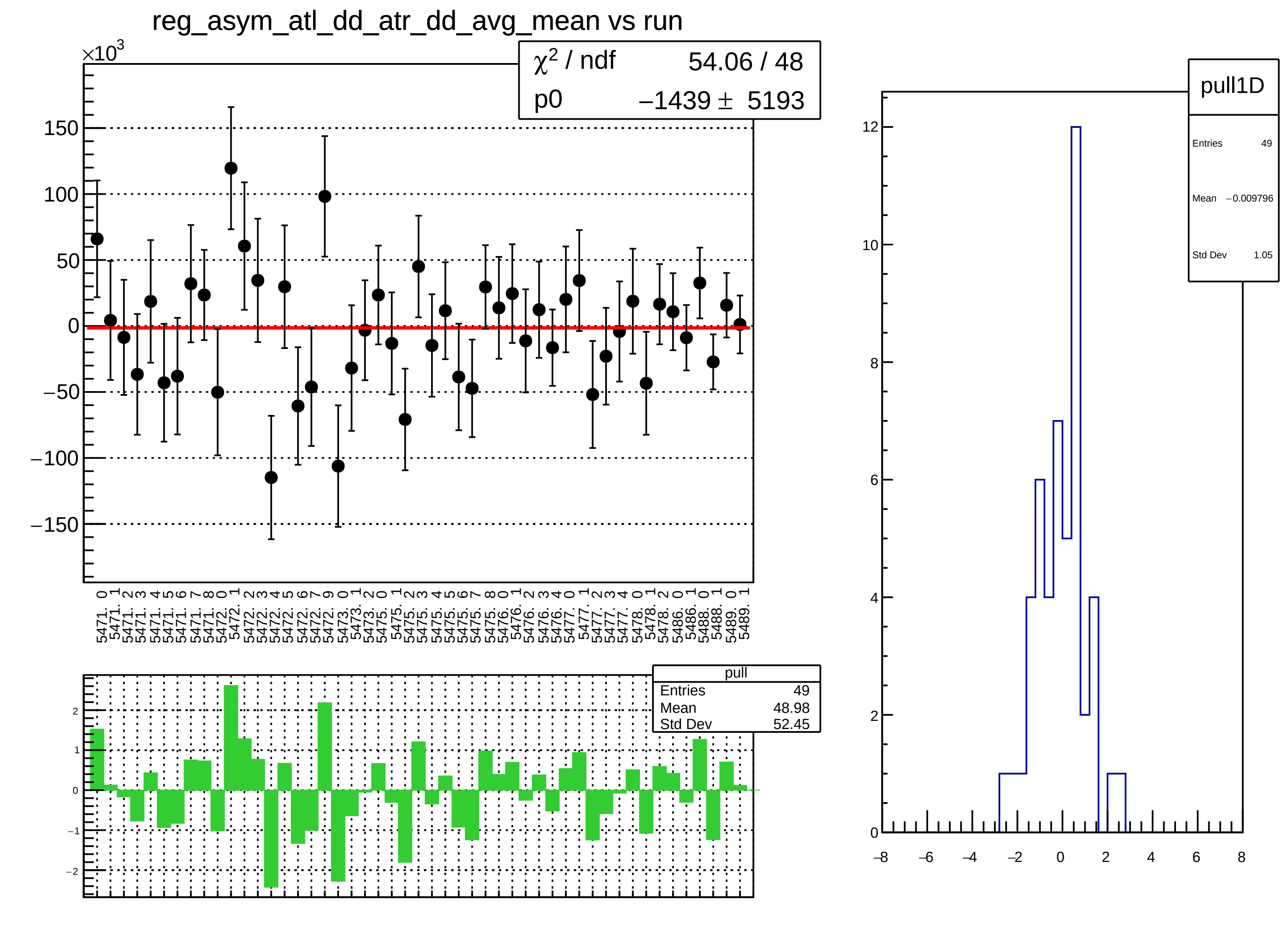
asym_atl_avg_atr_avg_dd_correction_rms vs run
χ^2 / ndf 0 / 50
p0 0 ± 0.14
0
0.2
0.4
0.6
0.8
1



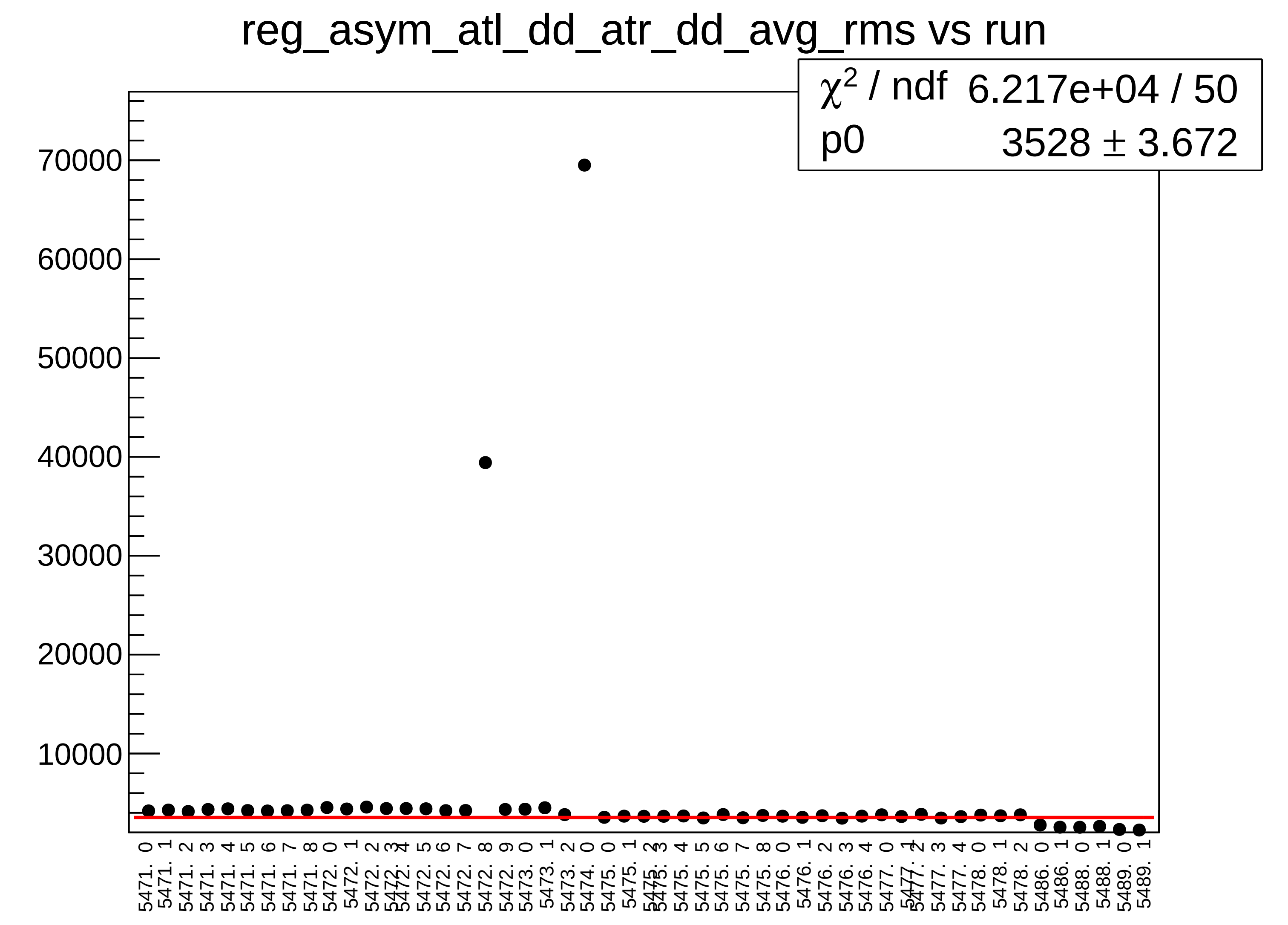
asym_atl_avg_atr_avg_dd_mean vs run
χ^2 / ndf 63.1 / 48
p0 1973 ± 2376
pull
Entries 49
Mean −6.132
Std Dev 21.95
pull1D
Entries 49
Mean −0.02175
Std Dev 1.135



asym_atl_avg_atr_avg_dd_rms vs run
χ2 / ndf 3.819e+04 / 50
p0 1635 ± 1.68
70000
60000
50000
40000
30000
20000
10000

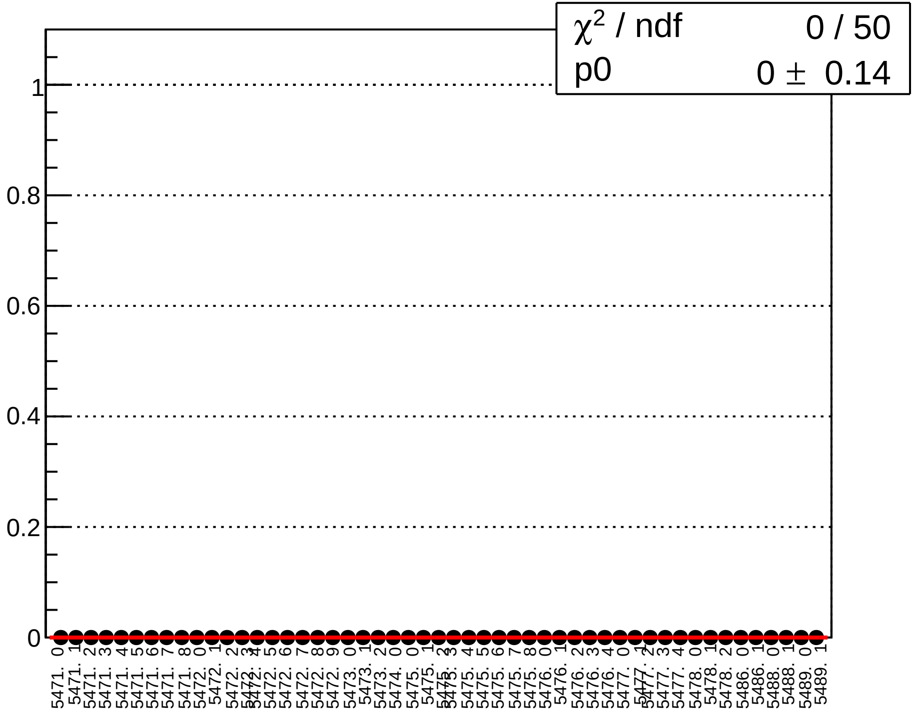


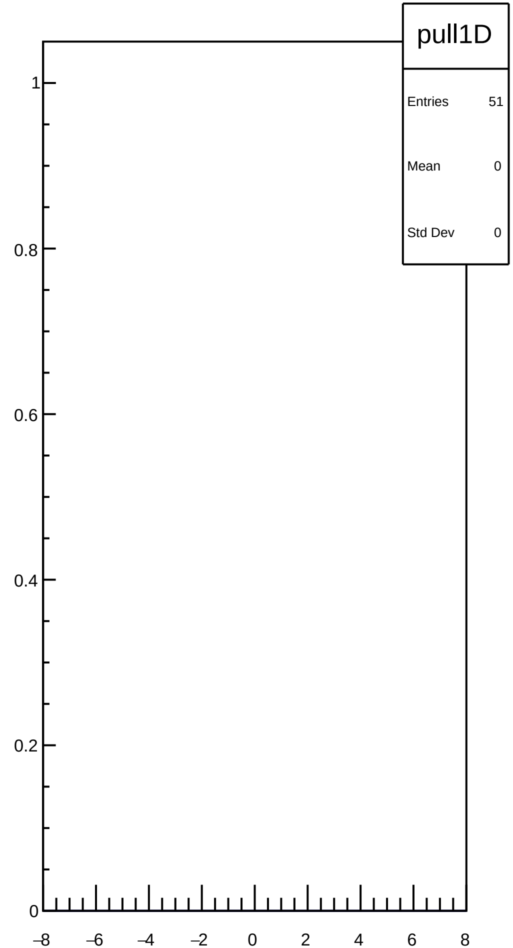
reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 54.06 / 48
p0 −1439 ± 5193
150
100
50
0
−50
−100
−150
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 48.98
Std Dev 52.45
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.009796
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

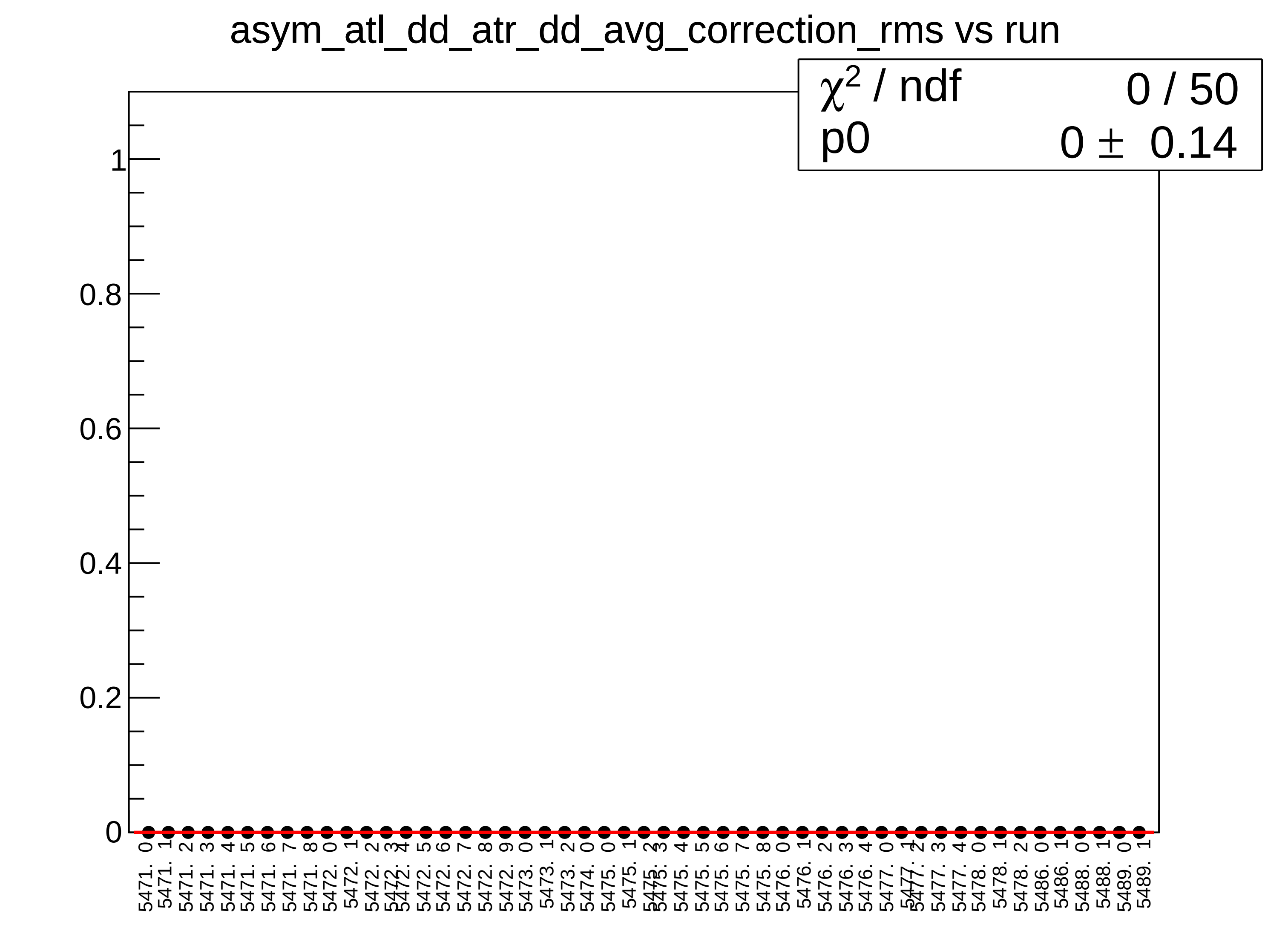


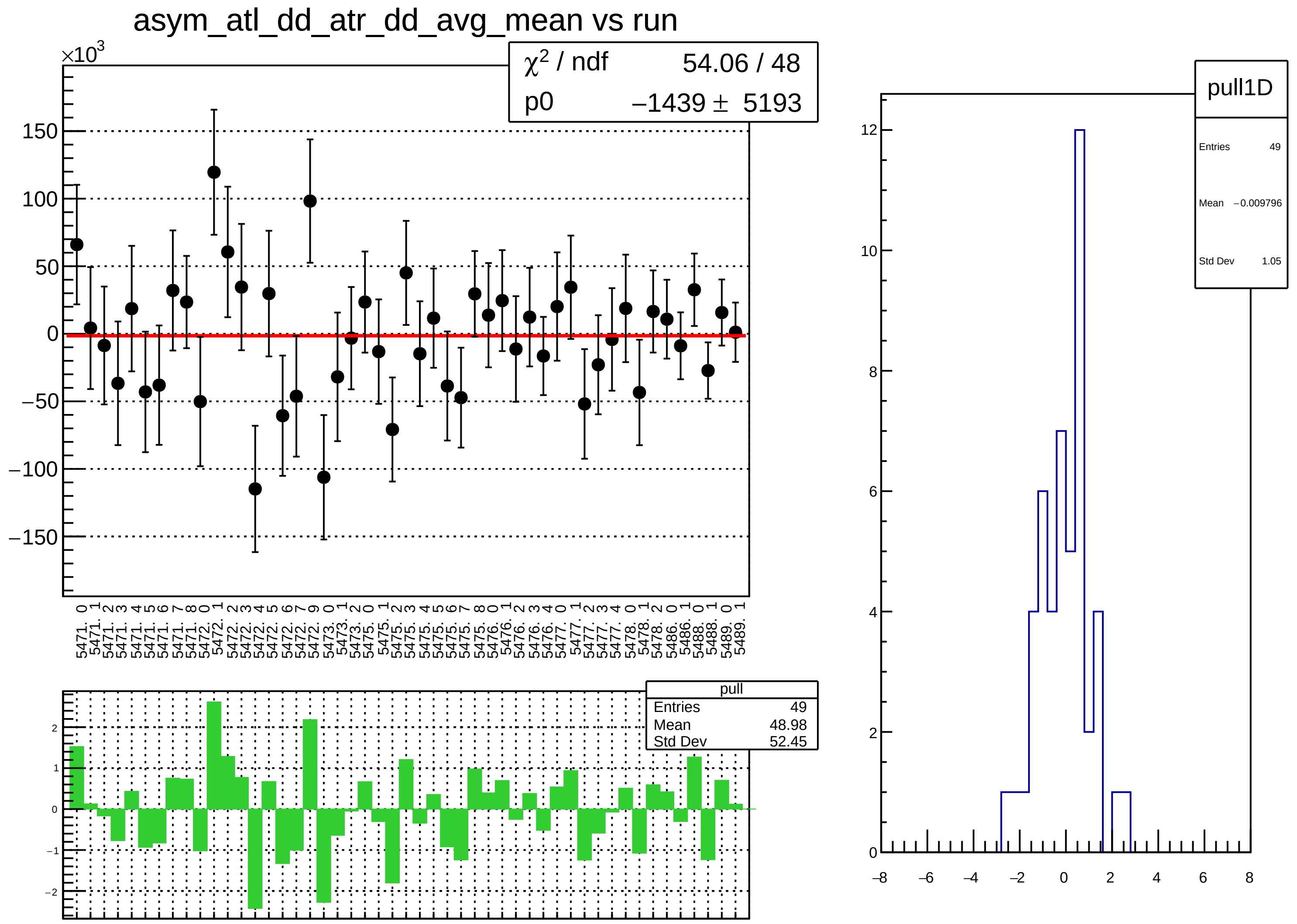
reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 6.217e+04 / 50
p0 3528 ± 3.672
70000
60000
50000
40000
30000
20000
10000

asym_atl_dd_atr_dd_avg_correction_mean vs run

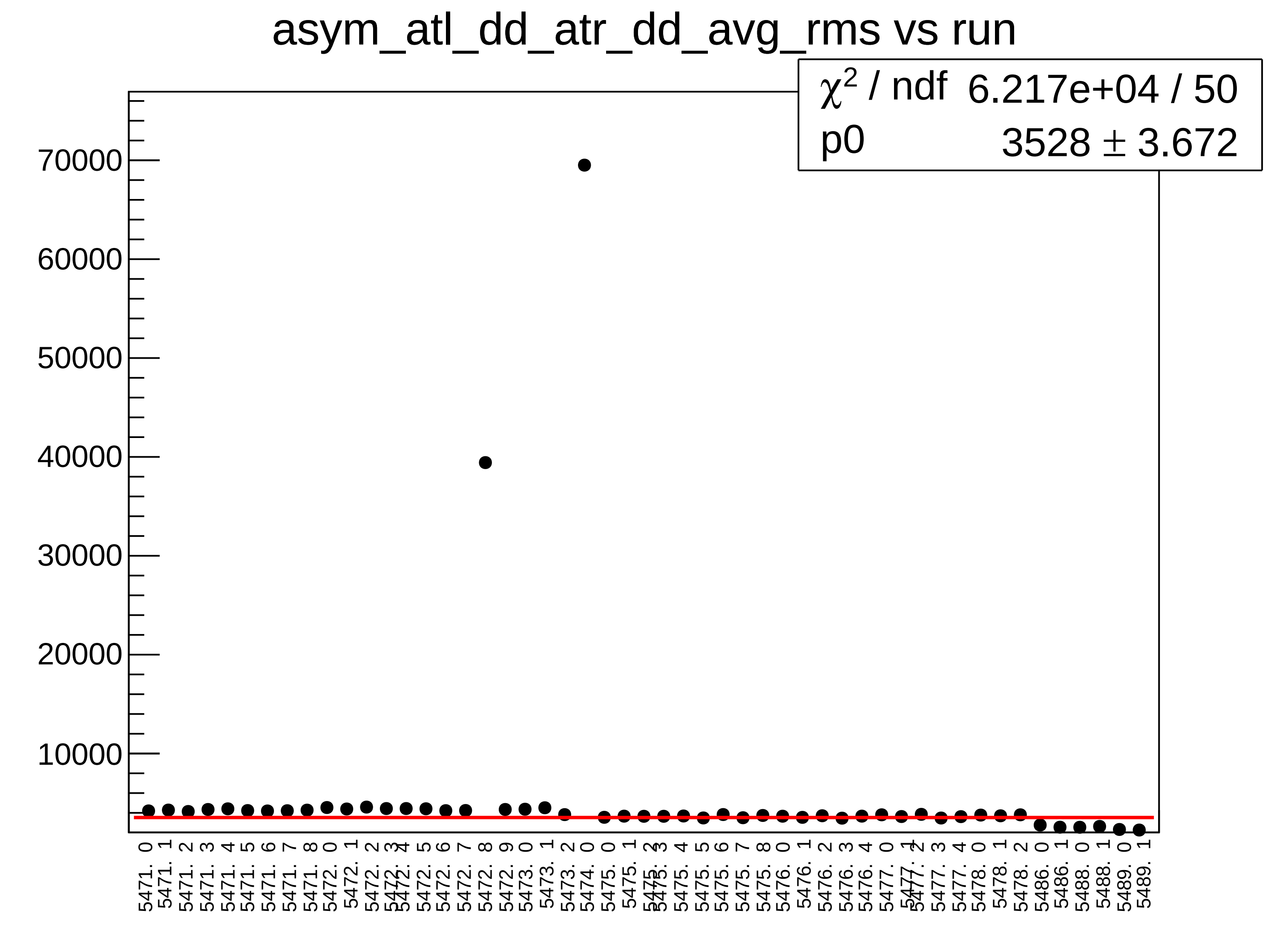




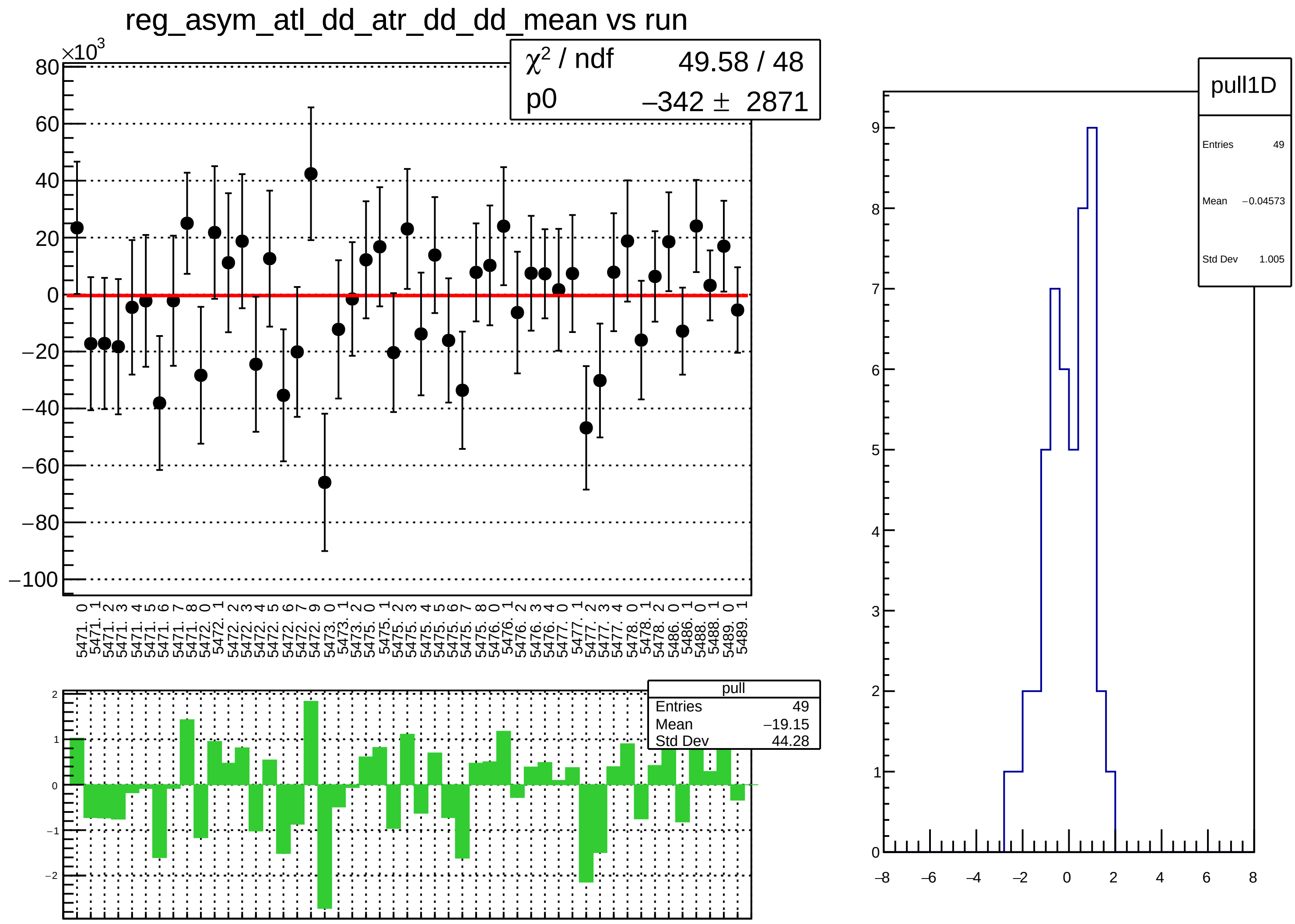

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
0
0.2
0.4
0.6
0.8
1



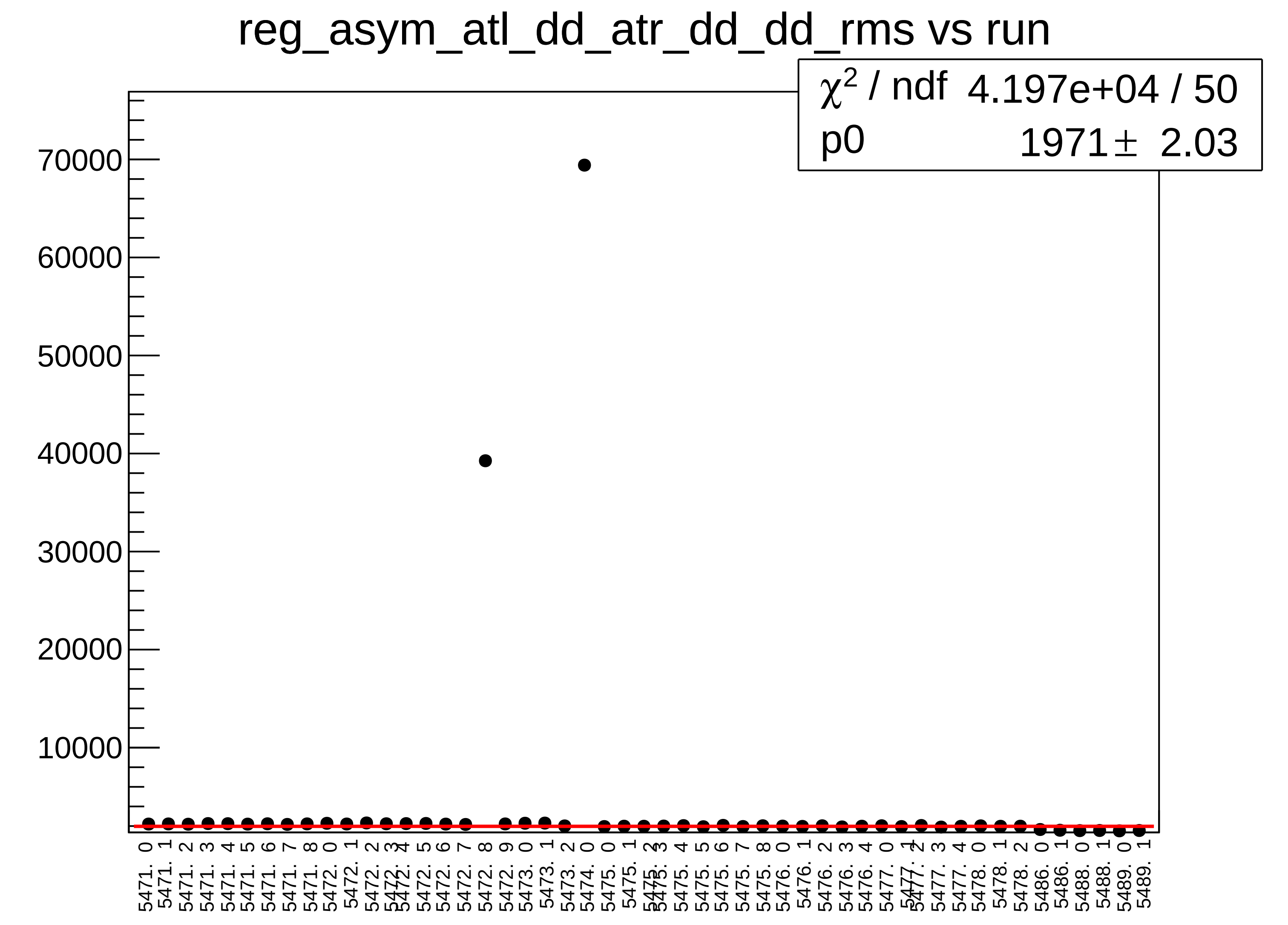
asym_atl_dd_atr_dd_avg_mean vs run
χ^2 / ndf 54.06 / 48
p0 −1439 ± 5193
pull
Entries 49
Mean 48.98
Std Dev 52.45
pull1D
Entries 49
Mean −0.009796
Std Dev 1.05



asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 6.217e+04 / 50
p0 3528 ± 3.672

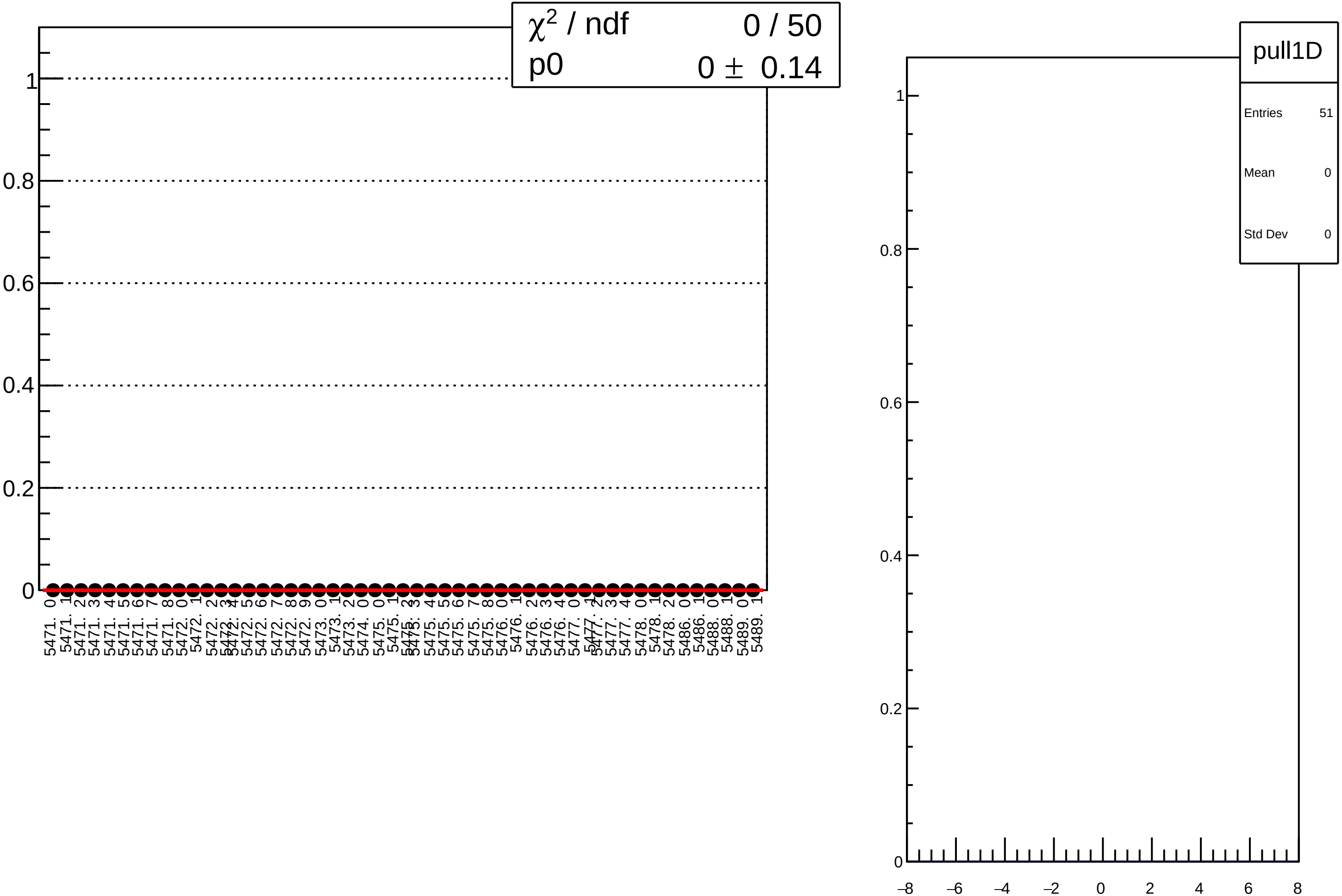


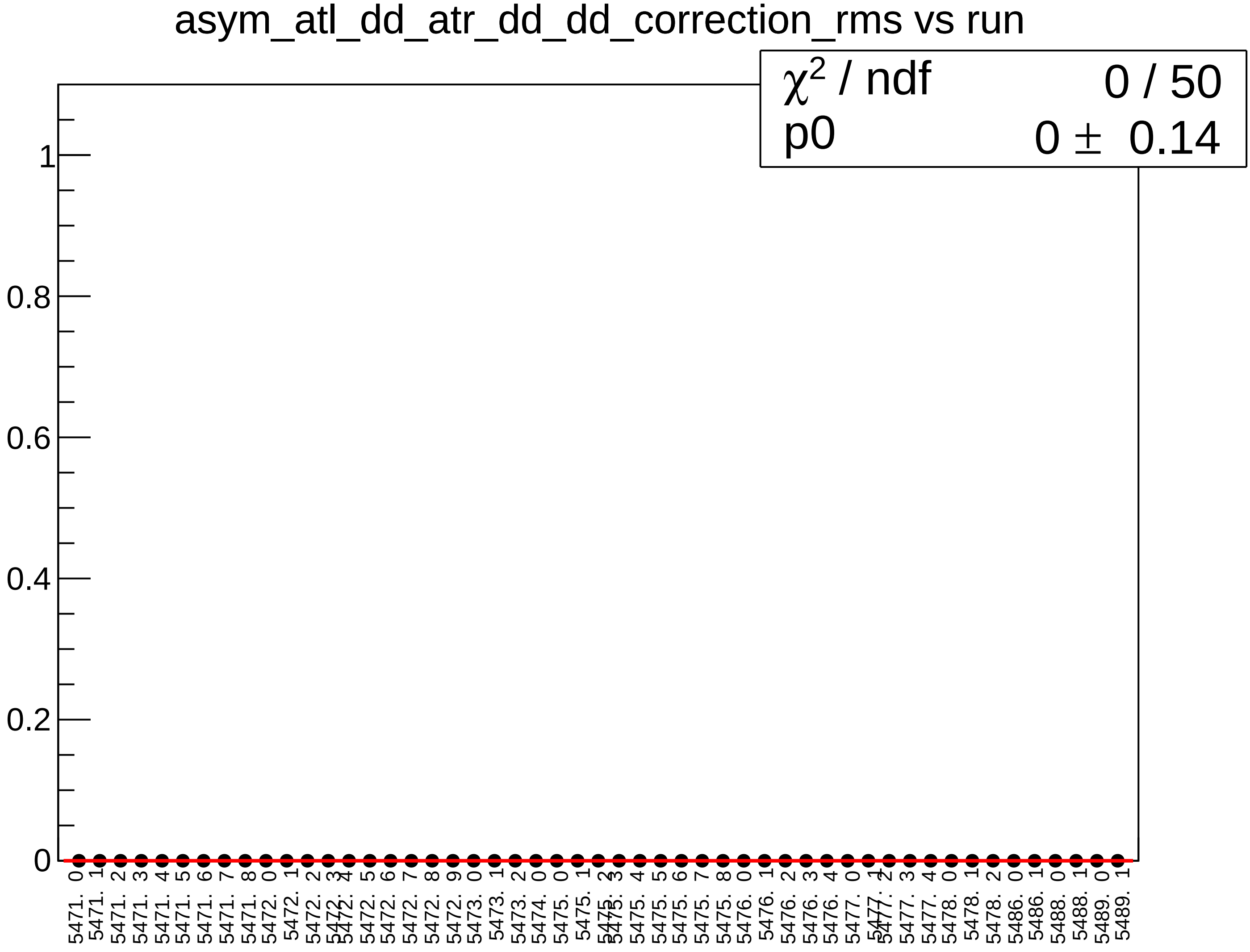
reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ2 / ndf 49.58 / 48
p0 −342 ± 2871
pull
Entries 49
Mean −19.15
Std Dev 44.28
pull1D
Entries 49
Mean −0.04573
Std Dev 1.005



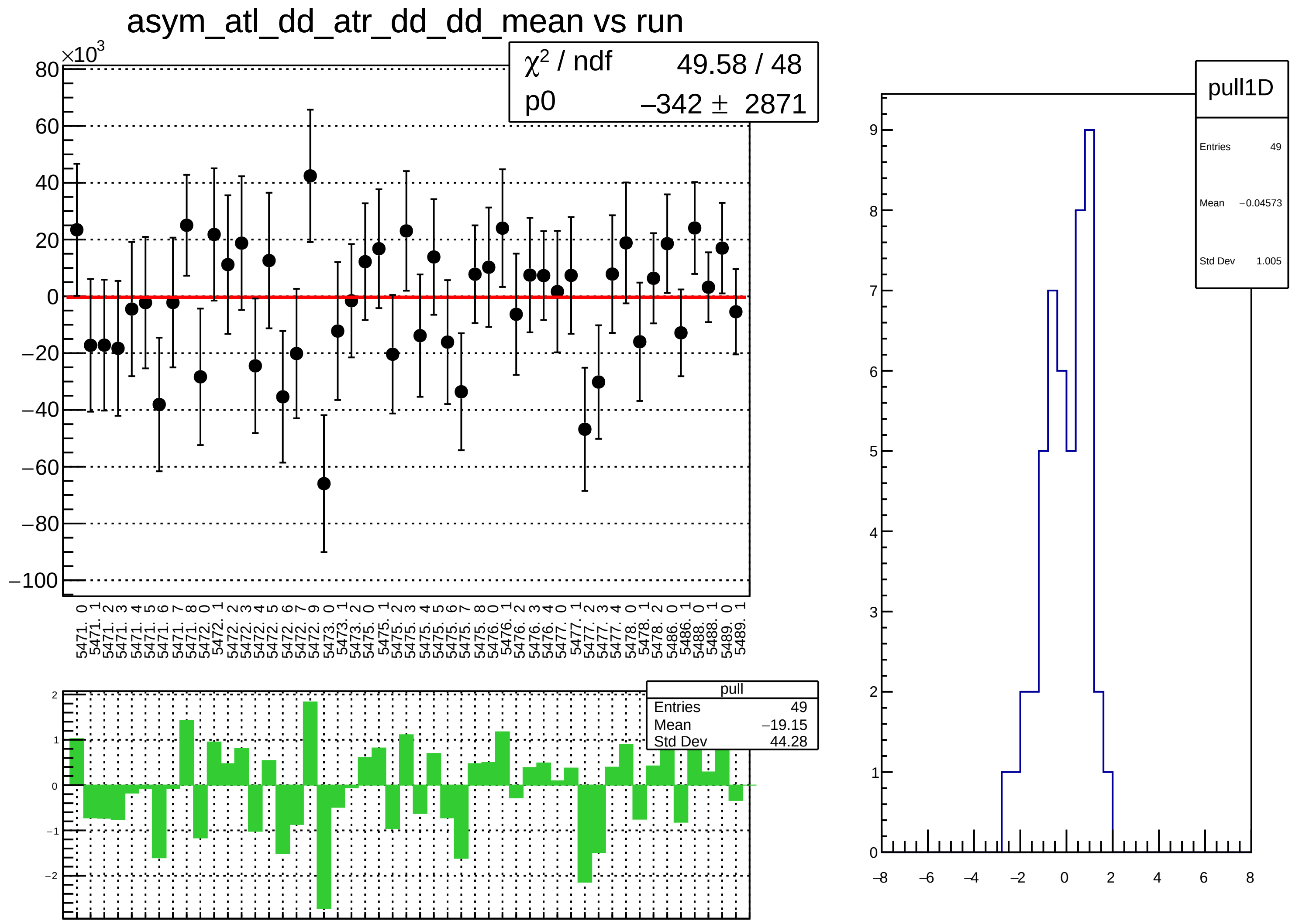
reg_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 4.197e+04 / 50
p0 1971 ± 2.03
70000
60000
50000
40000
30000
20000
10000

asym_atl_dd_atr_dd_dd_correction_mean vs run



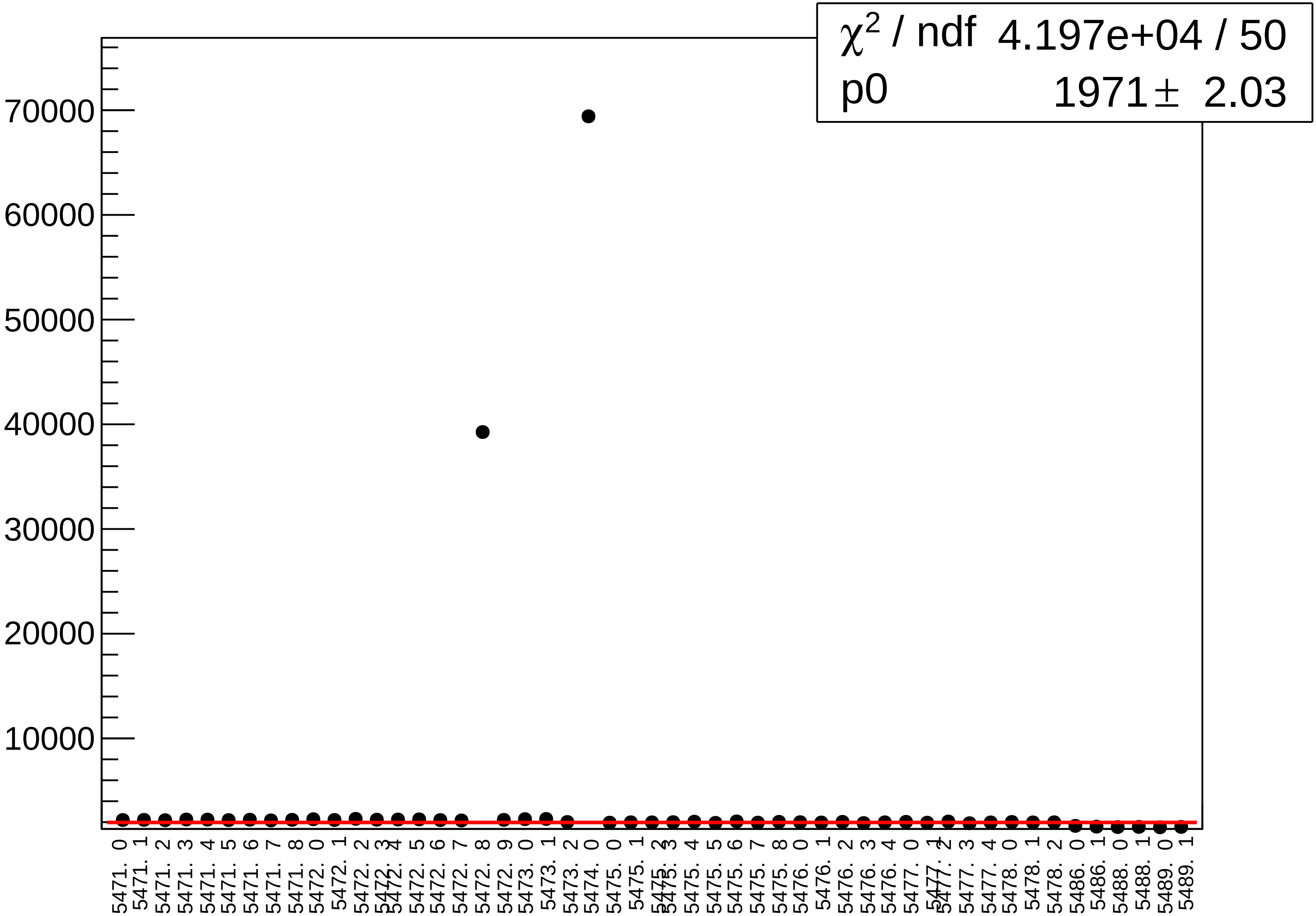


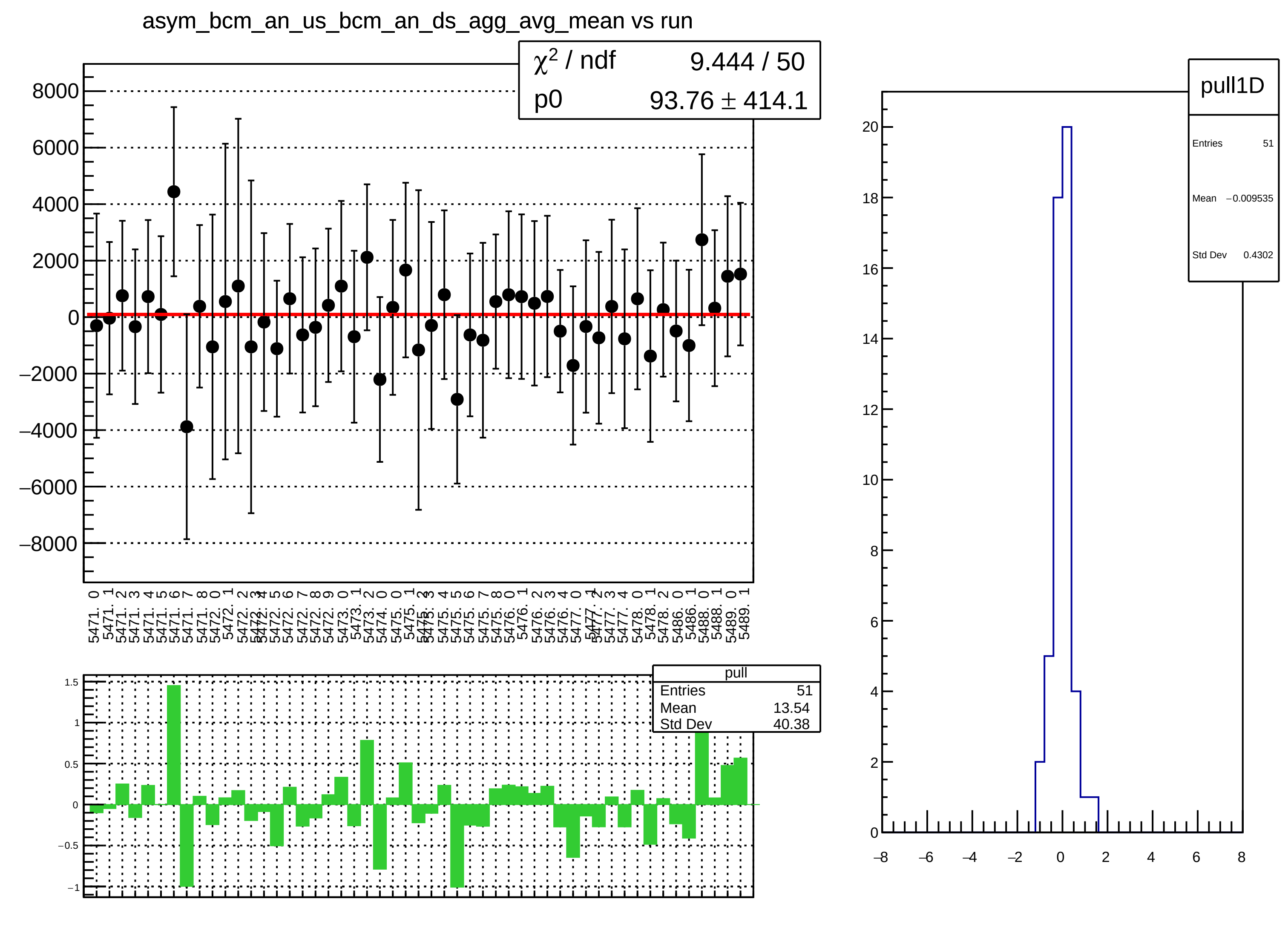
asym_atl_dd_atr_dd_dd_correction_rms vs run
χ^2 / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0



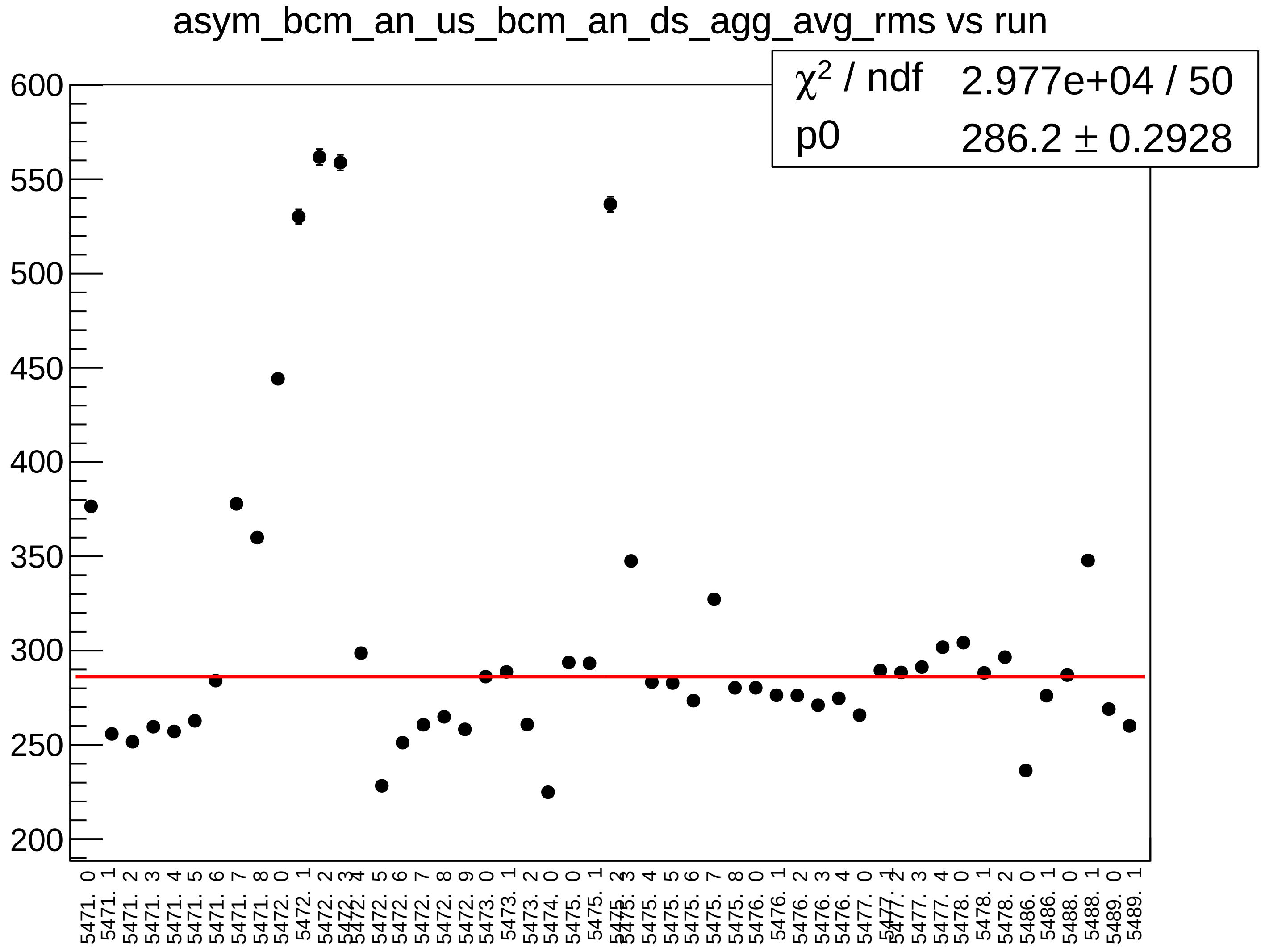
asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ2 / ndf 49.58 / 48
p0 −342 ± 2871
pull
Entries 49
Mean −19.15
Std Dev 44.28
pull1D
Entries 49
Mean −0.04573
Std Dev 1.005

asym_atl_dd_atr_dd_dd_rms vs run



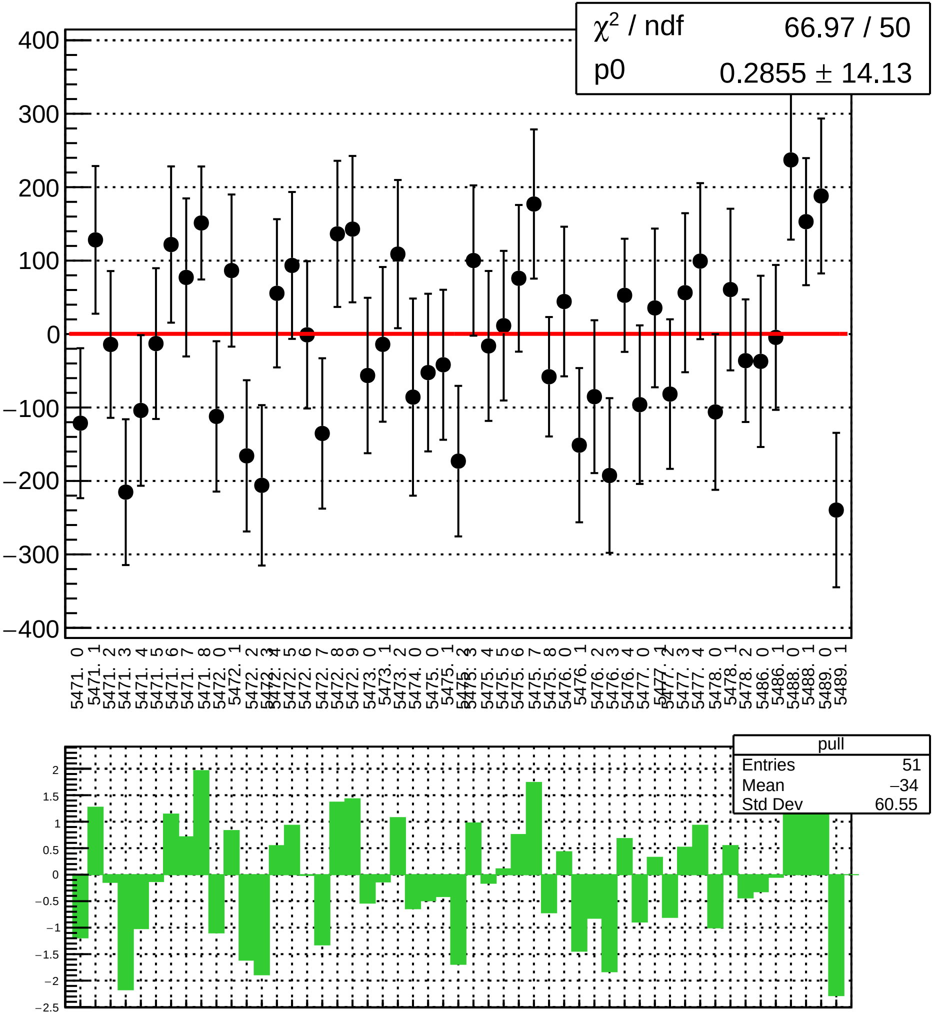


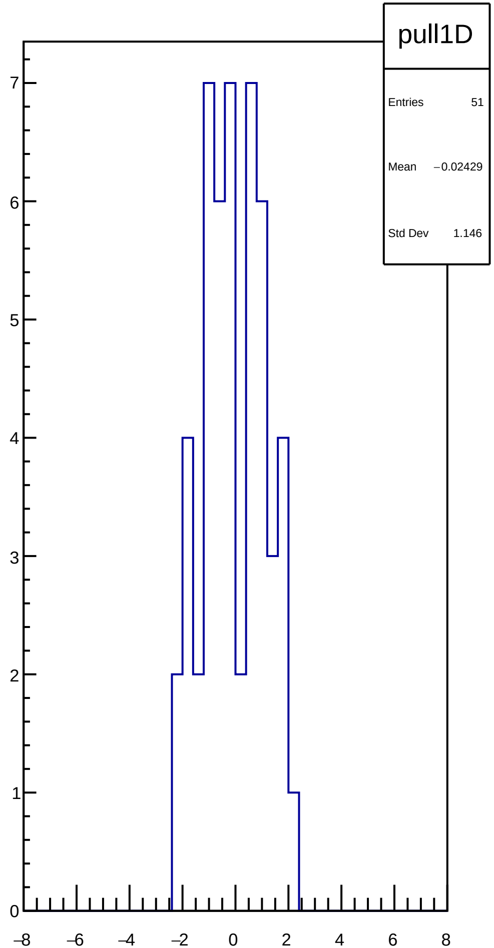
asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ2 / ndf 9.444 / 50
p0 93.76 ± 414.1
pull
Entries 51
Mean 13.54
Std Dev 40.38
pull1D
Entries 51
Mean −0.009535
Std Dev 0.4302

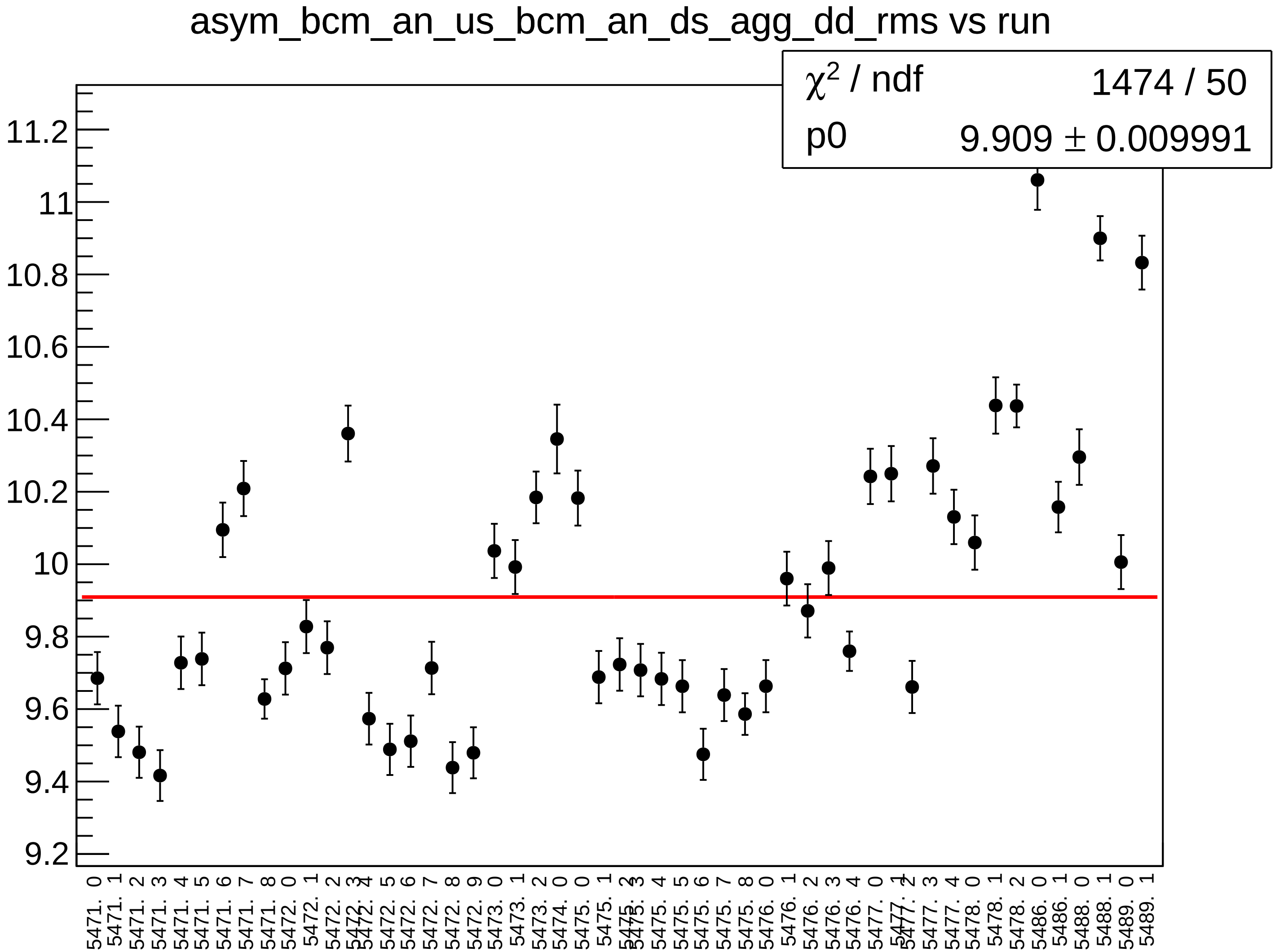


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 2.977e+04 / 50
p0 286.2 ± 0.2928
600
550
500
450
400
350
300
250
200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

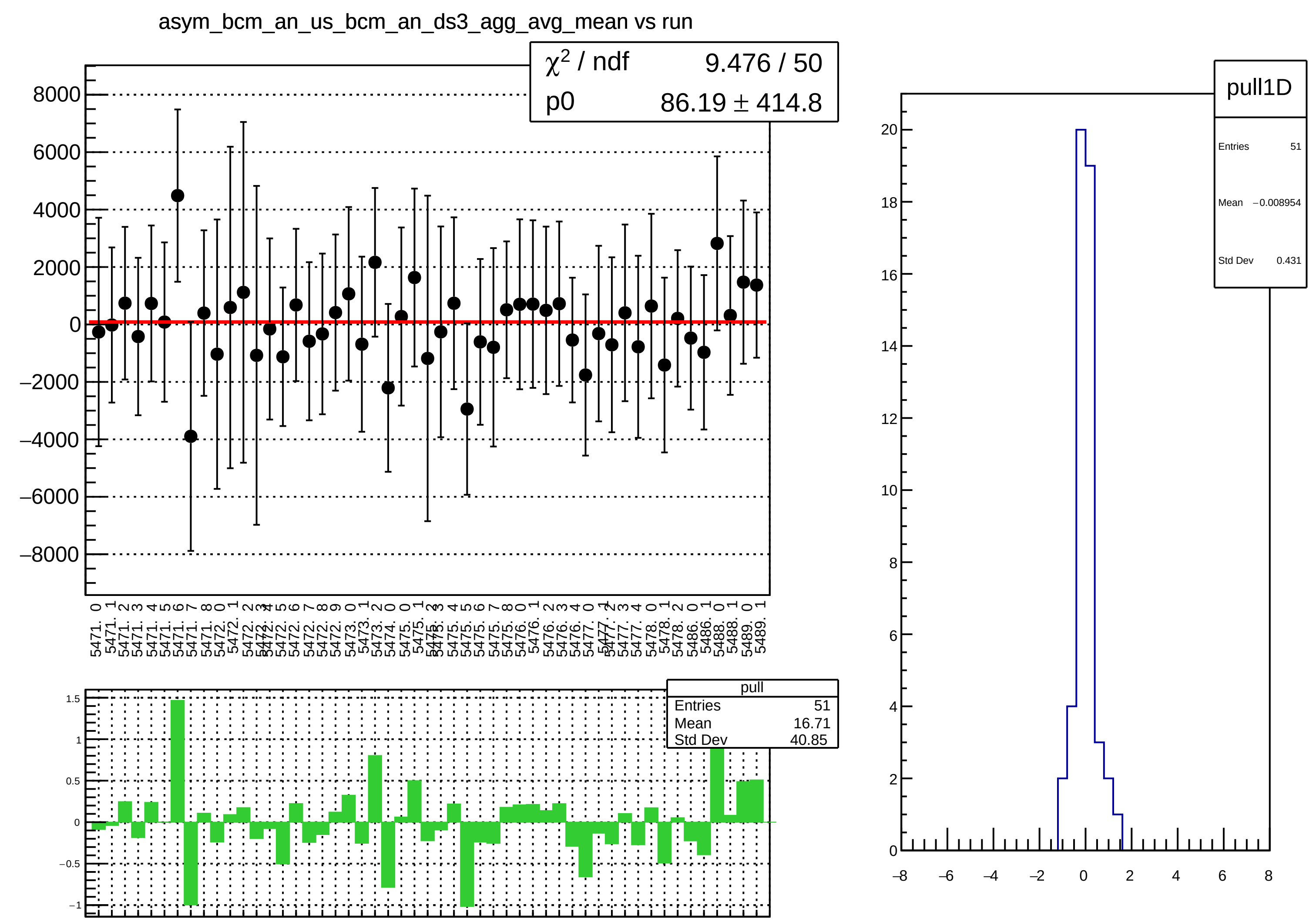
asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run



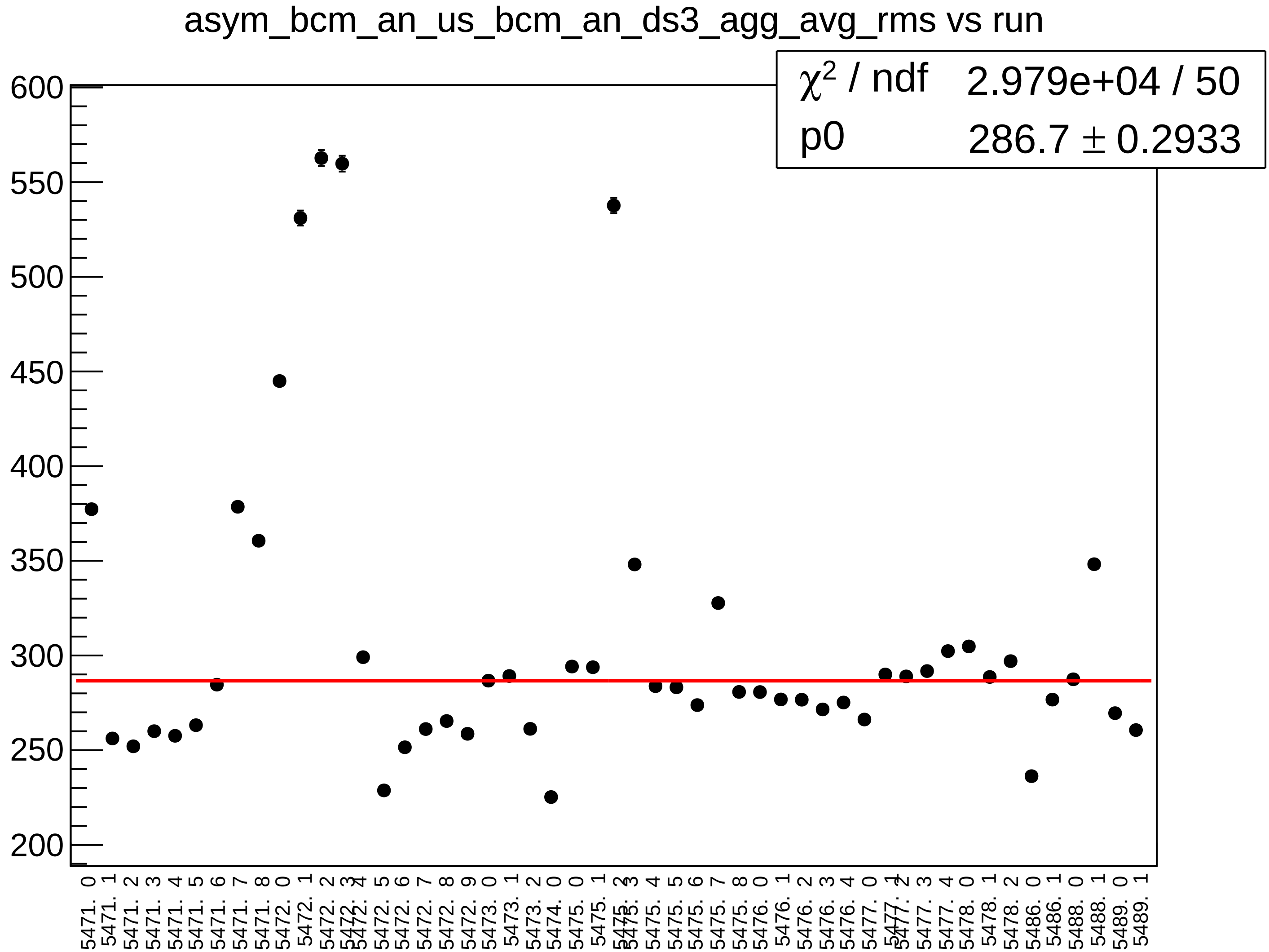




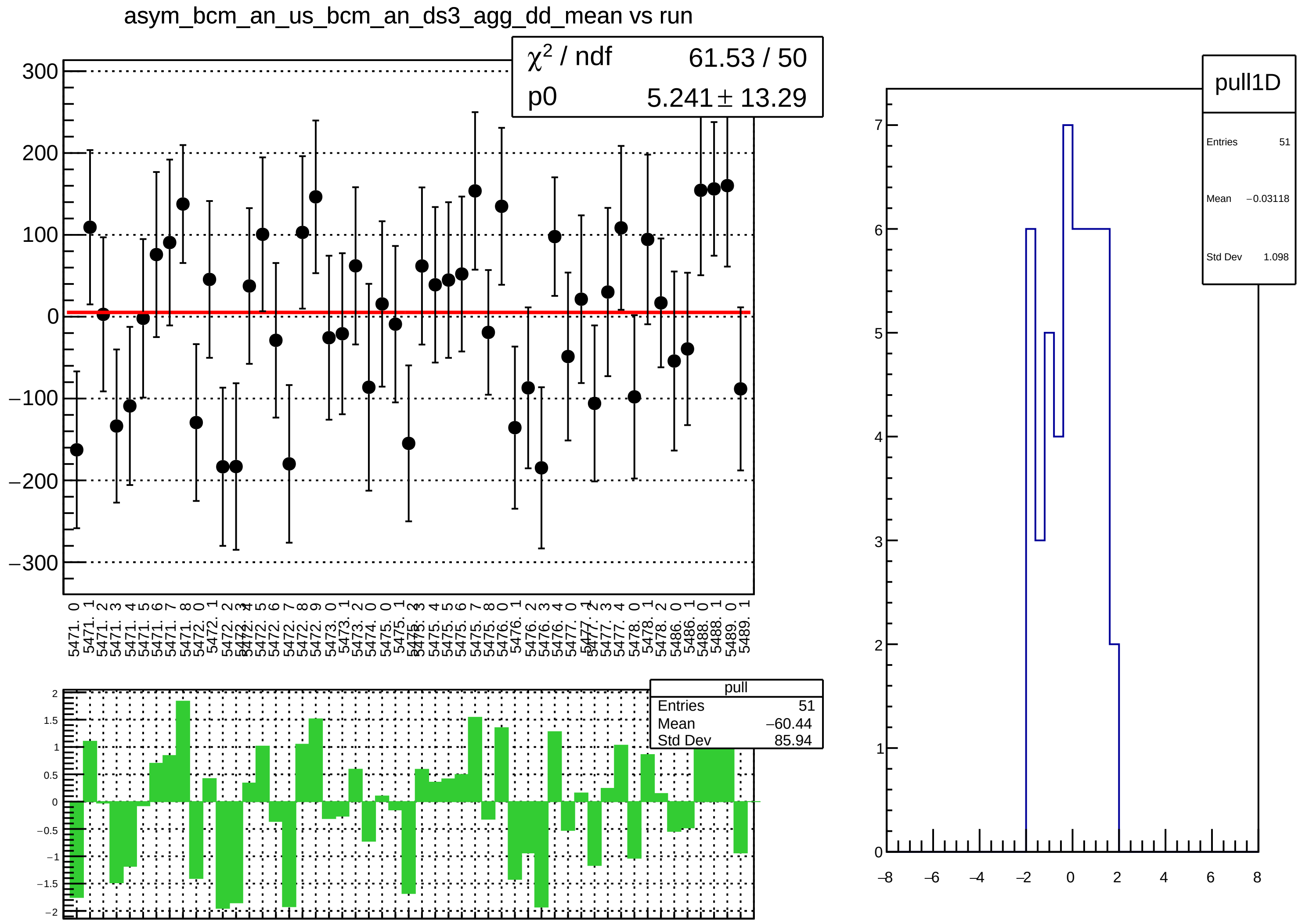
asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 1474 / 50
p0 9.909 ± 0.009991
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2



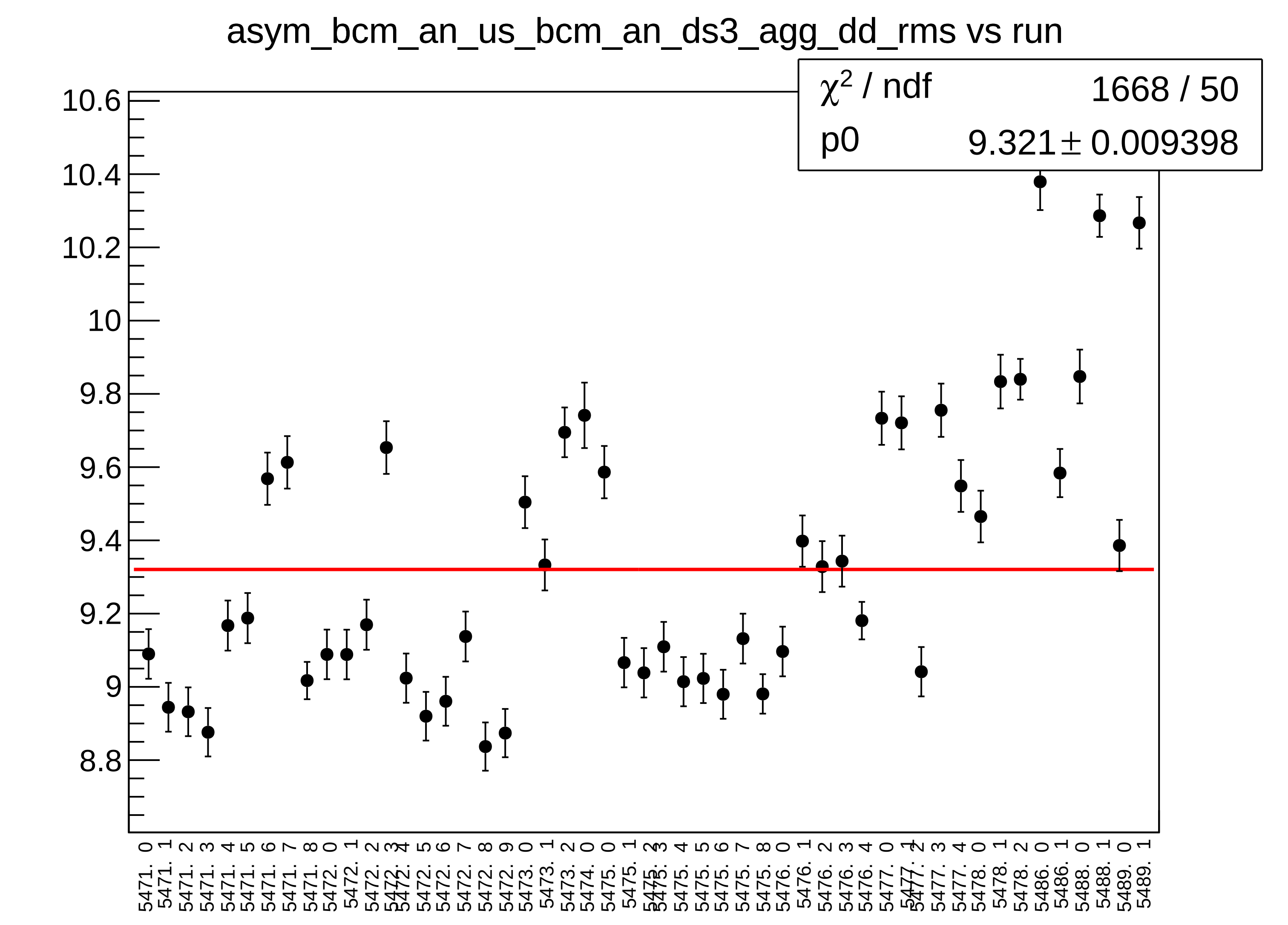
asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ^2 / ndf 9.476 / 50
p0 86.19 ± 414.8
pull
Entries 51
Mean 16.71
Std Dev 40.85
pull1D
Entries 51
Mean −0.008954
Std Dev 0.431



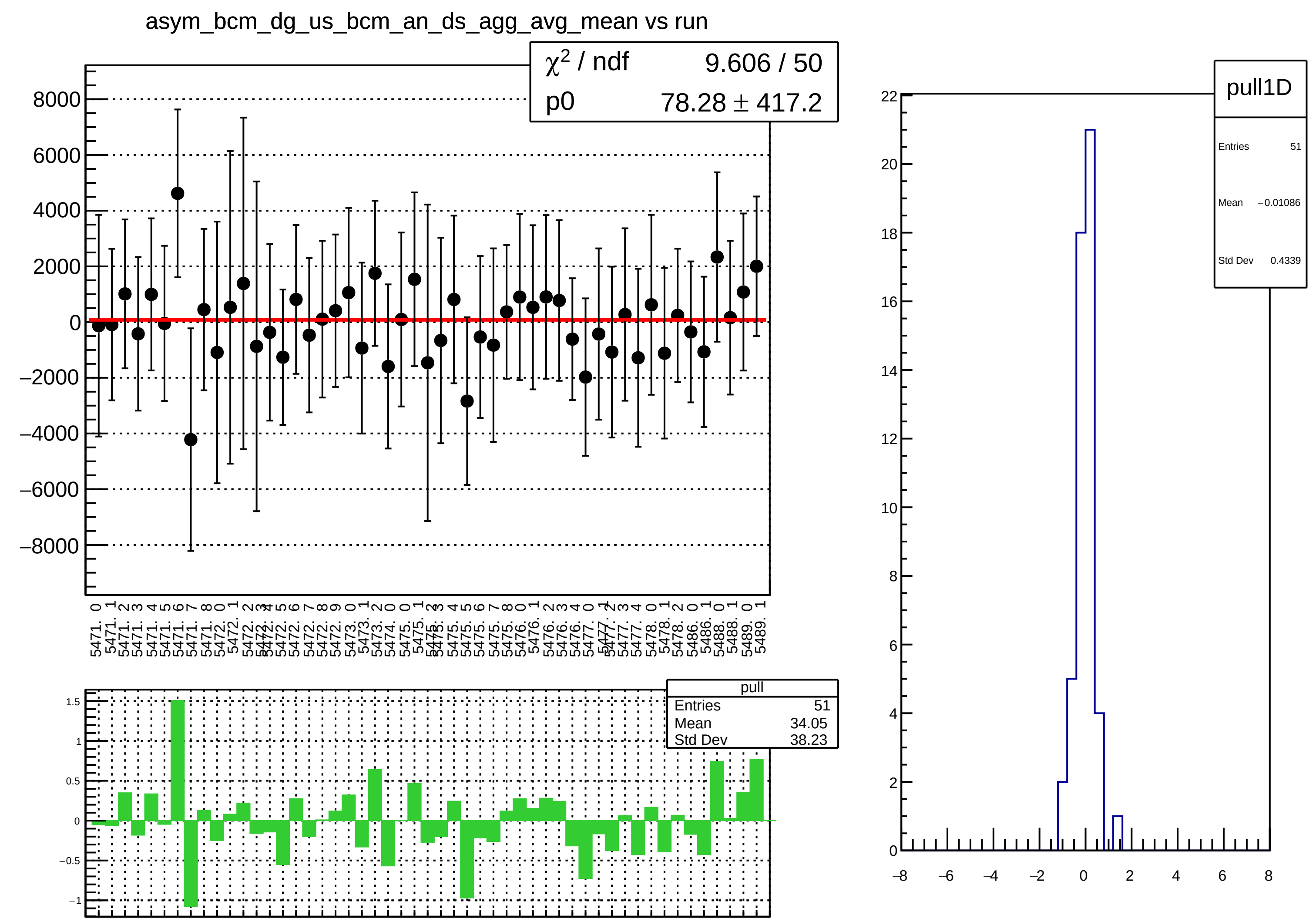
asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ2 / ndf 2.979e+04 / 50
p0 286.7 ± 0.2933
600
550
500
450
400
350
300
250
200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



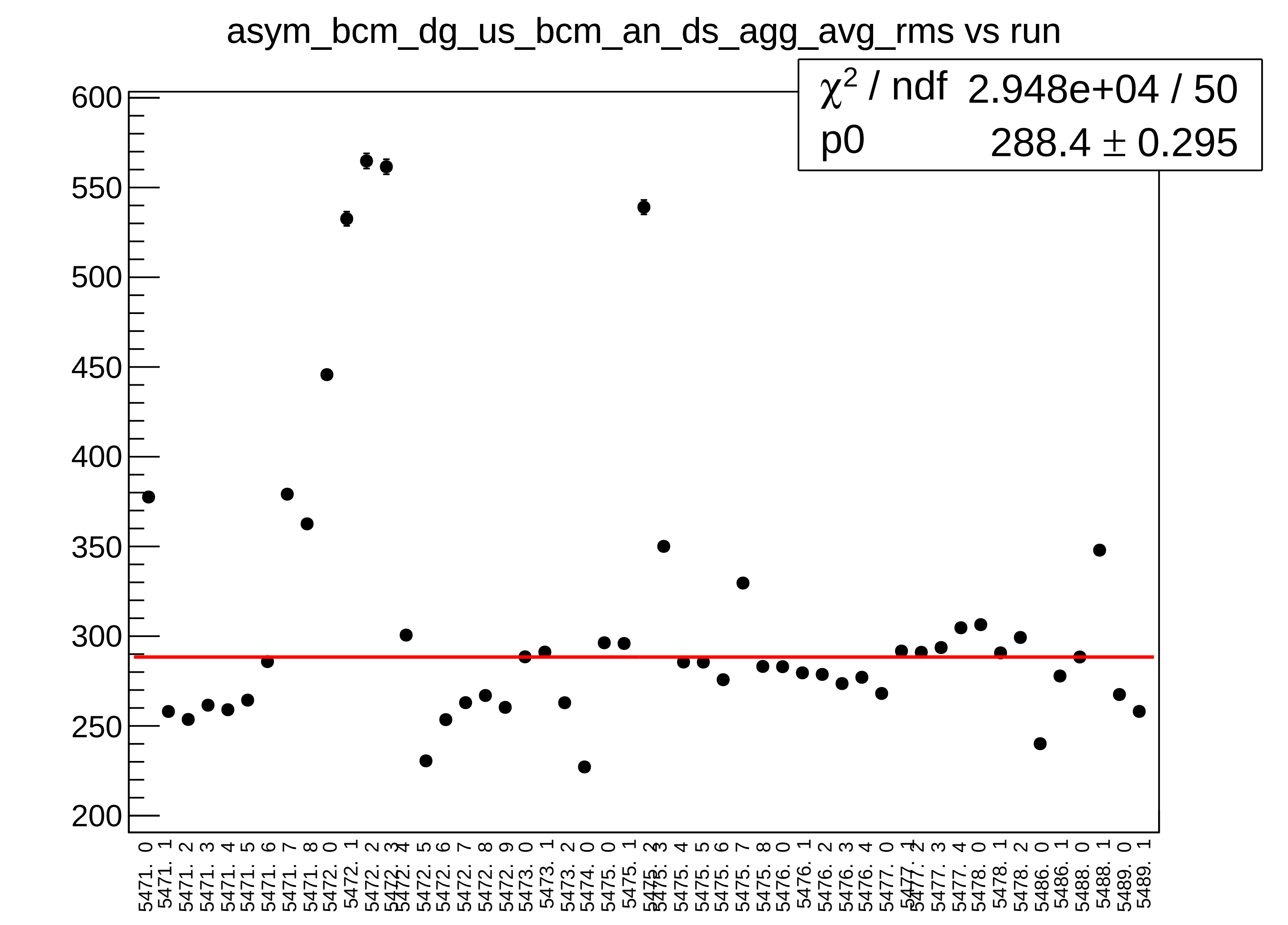
asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ^2 / ndf 61.53 / 50
p0 5.241 ± 13.29
pull
Entries 51
Mean −60.44
Std Dev 85.94
pull1D
Entries 51
Mean −0.03118
Std Dev 1.098



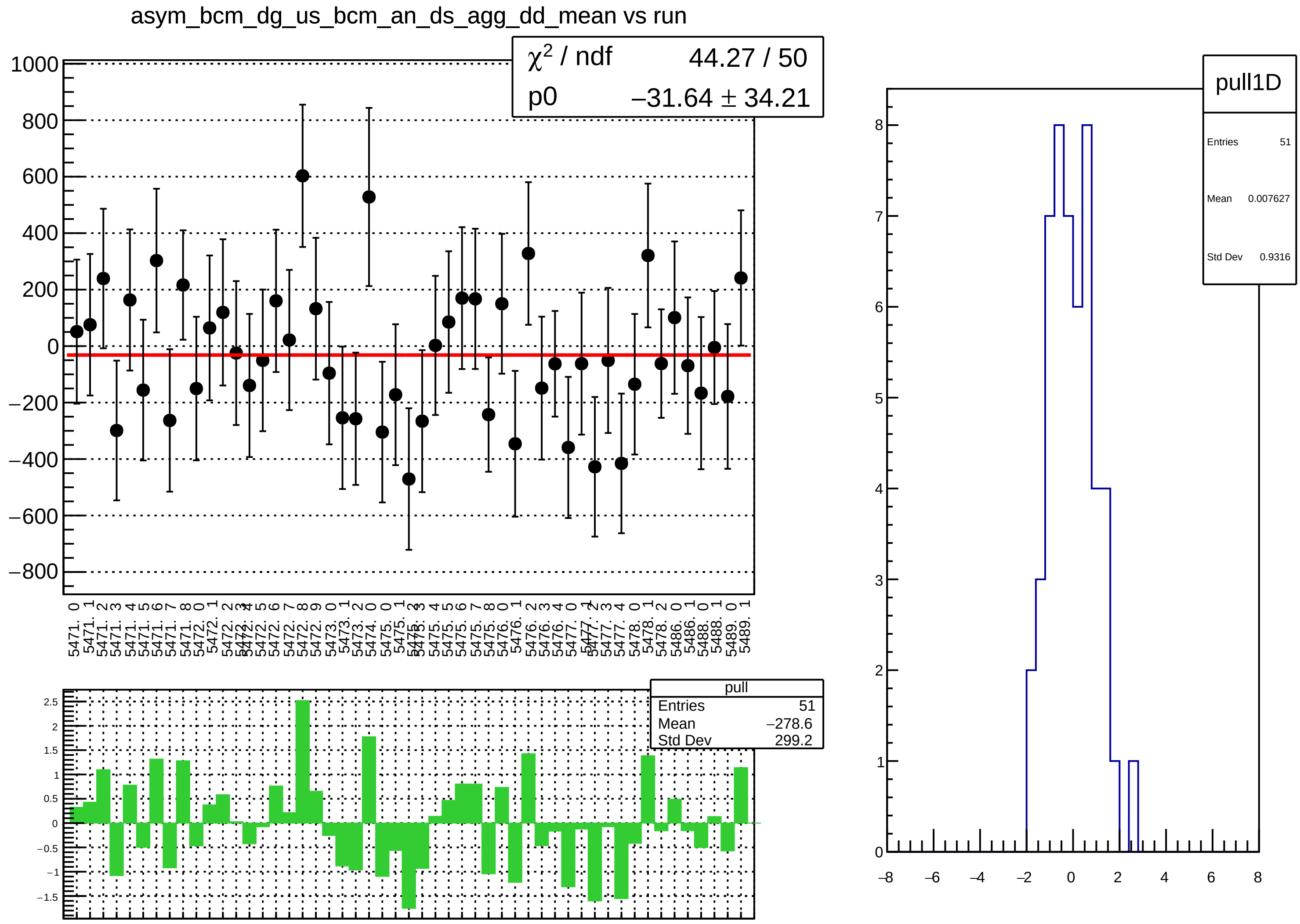
asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 1668 / 50
p0 9.321 ± 0.009398
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8



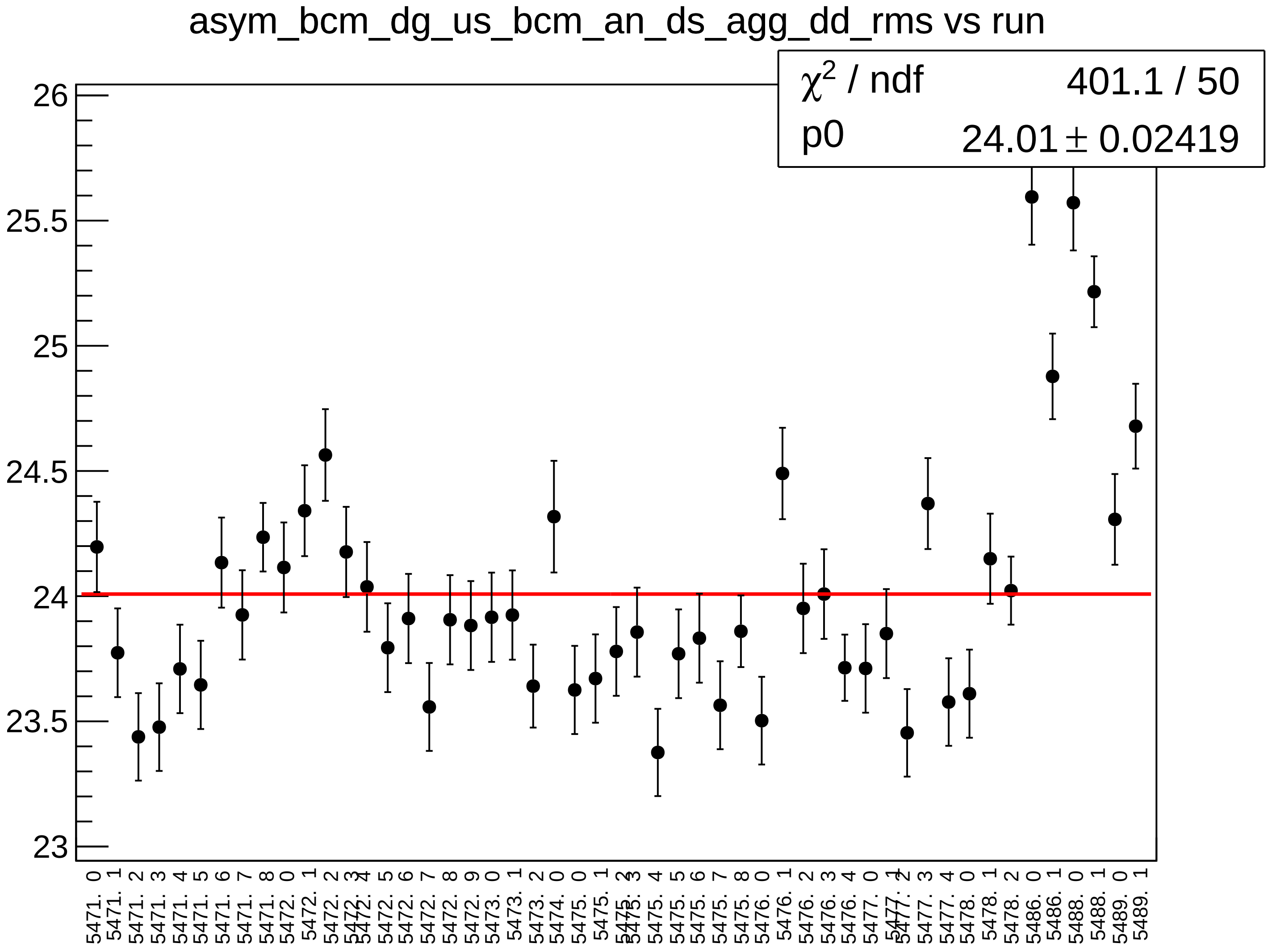
asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ^2 / ndf 9.606 / 50
p0 78.28 ± 417.2
pull
Entries 51
Mean 34.05
Std Dev 38.23
pull1D
Entries 51
Mean −0.01086
Std Dev 0.4339

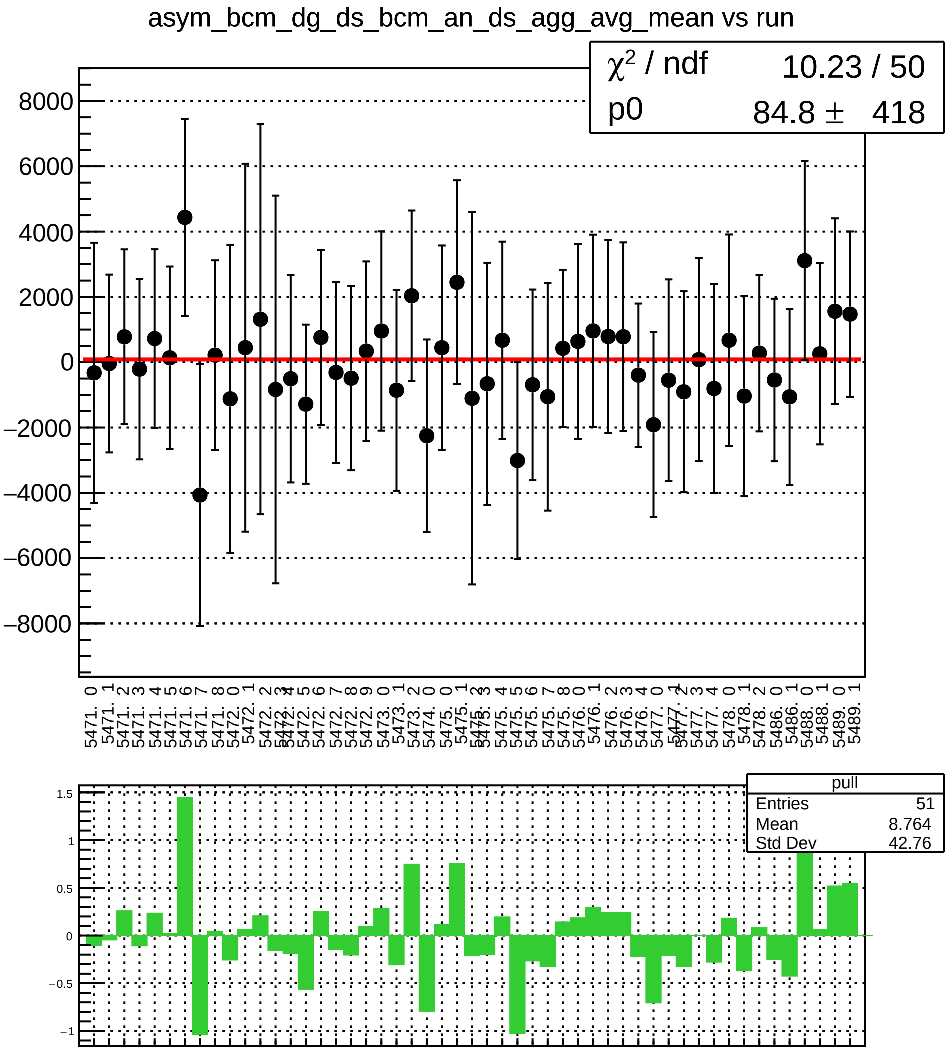


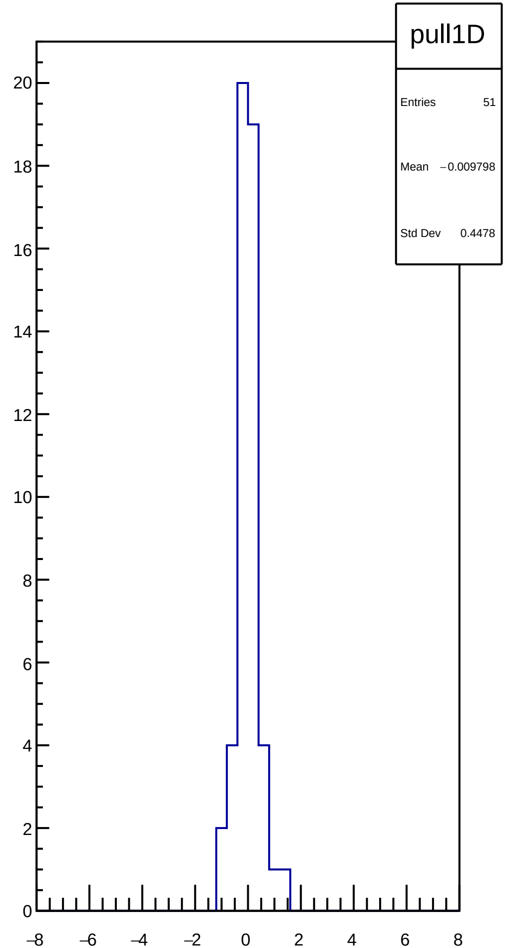
asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 2.948e+04 / 50
p0 288.4 ± 0.295
600
550
500
450
400
350
300
250
200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

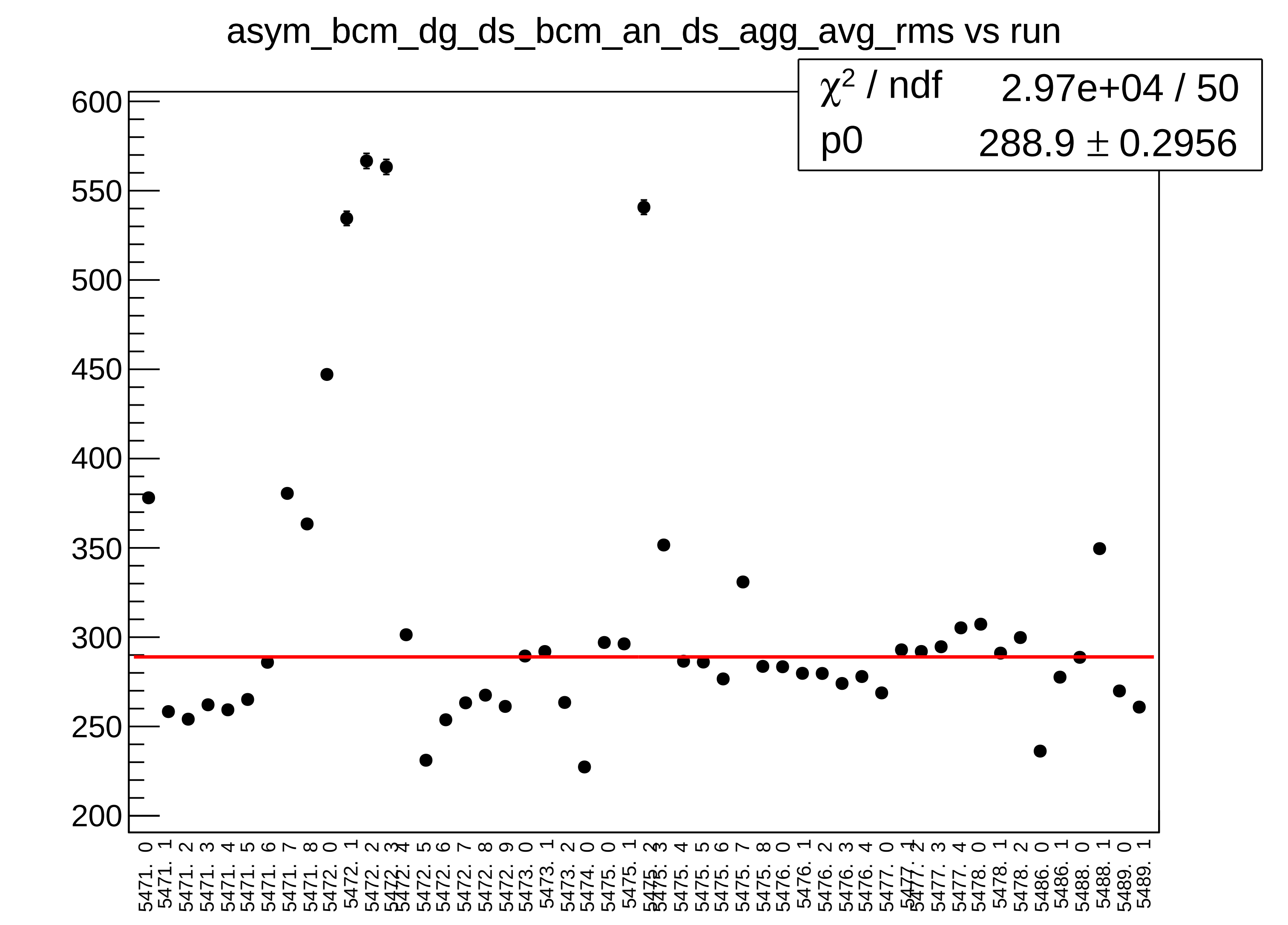


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ^2 / ndf 44.27 / 50
p0 −31.64 ± 34.21
pull
Entries 51
Mean −278.6
Std Dev 299.2
pull1D
Entries 51
Mean 0.007627
Std Dev 0.9316

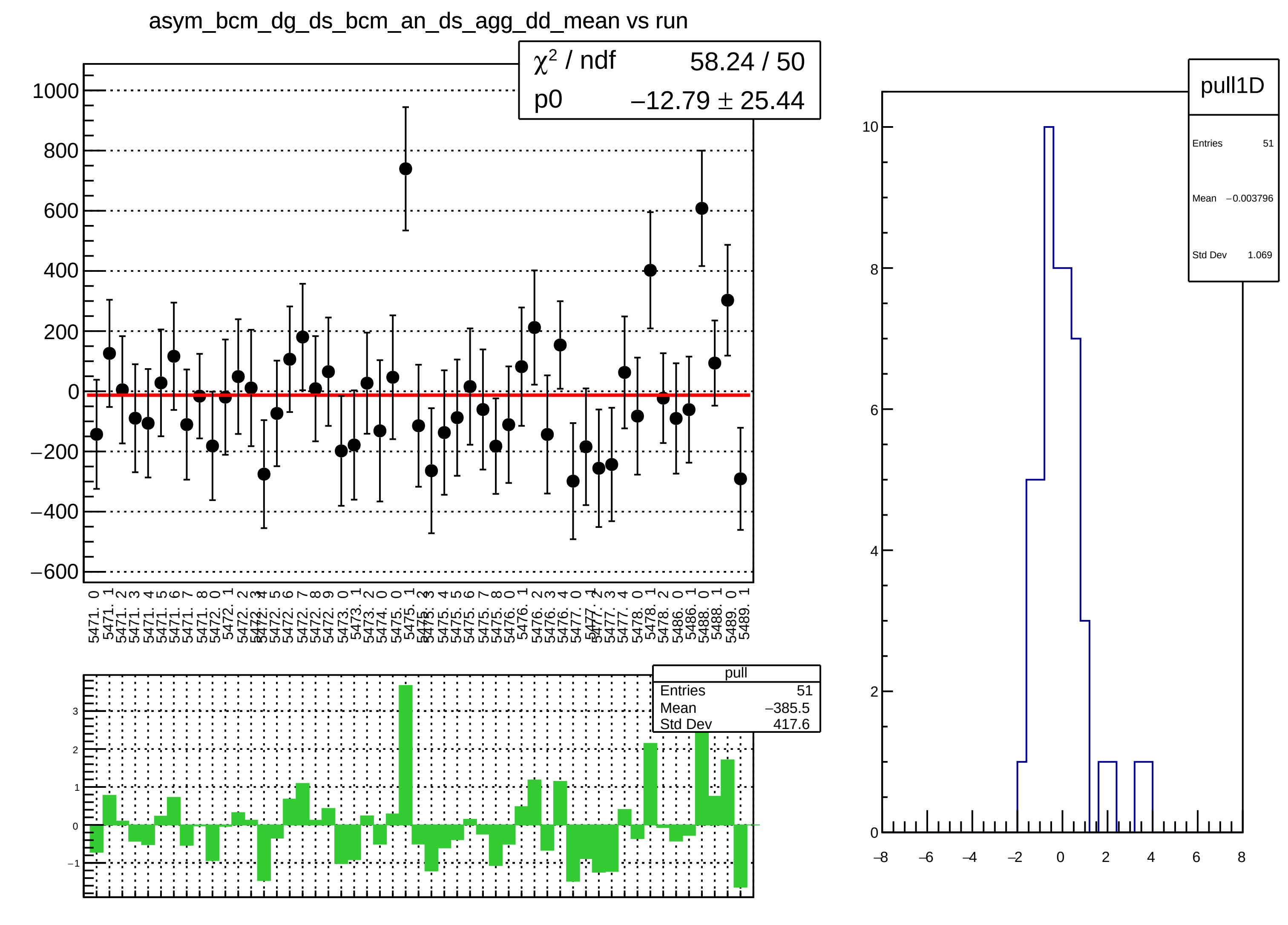

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 401.1 / 50
p0 24.01 ± 0.02419
26
25.5
25
24.5
24
23.5
23


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ^2 / ndf 10.23 / 50
p0 84.8 ± 418
pull
Entries 51
Mean 8.764
Std Dev 42.76

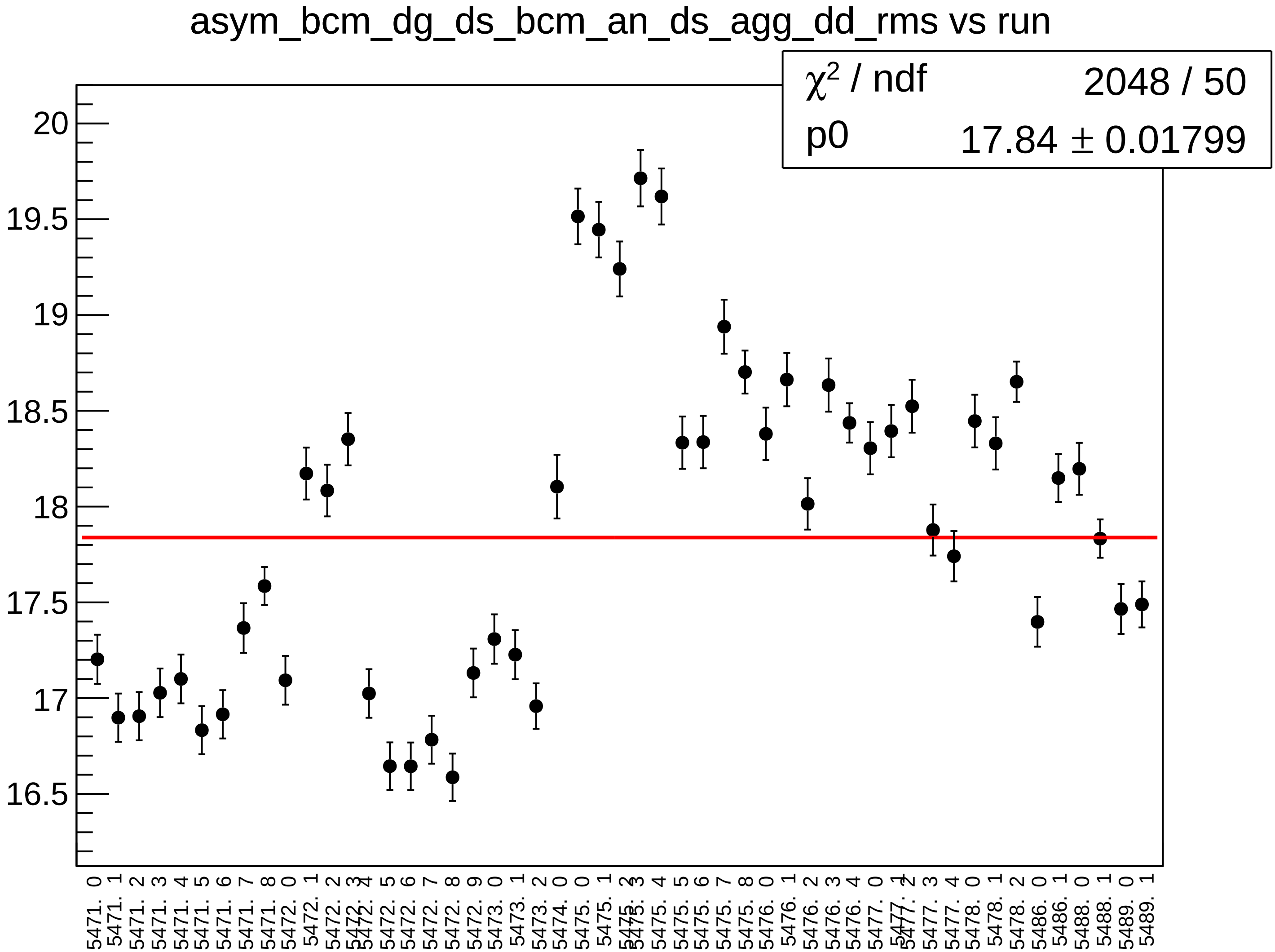

pull1D
Entries 51
Mean −0.009798
Std Dev 0.4478



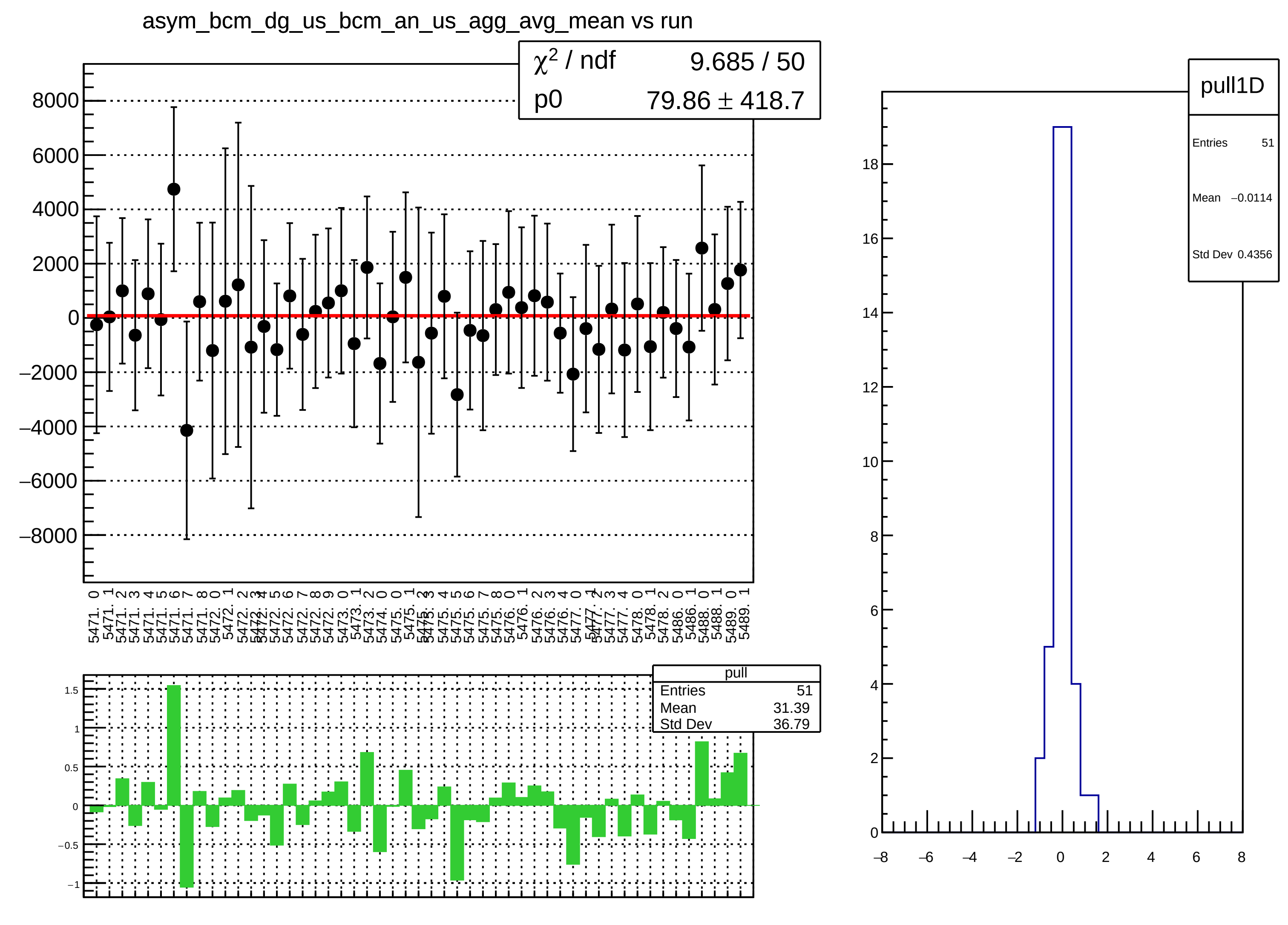
asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 2.97e+04 / 50
p0 288.9 ± 0.2956
600
550
500
450
400
350
300
250
200



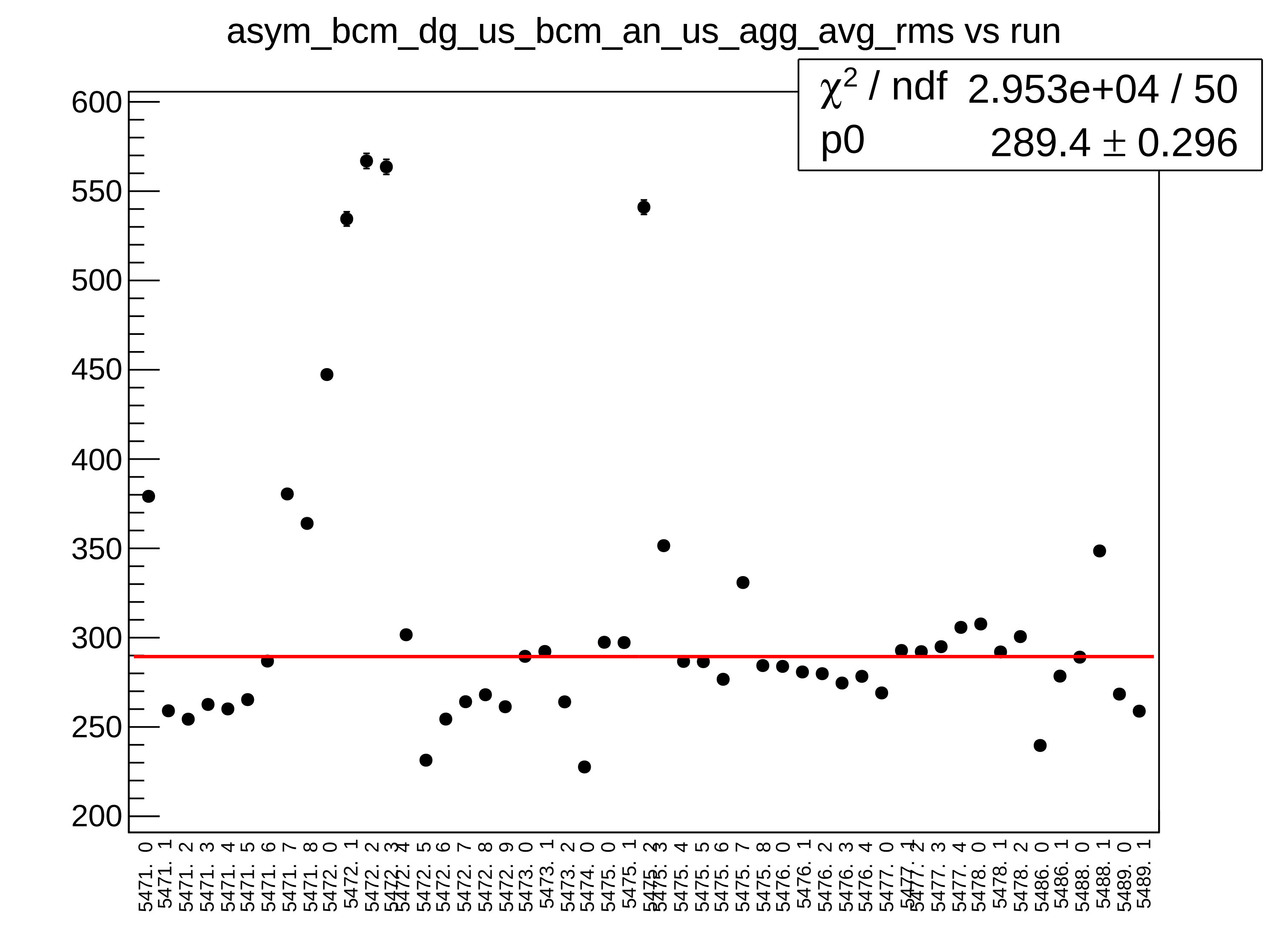
asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ2 / ndf 58.24 / 50
p0 −12.79 ± 25.44
pull
Entries 51
Mean −385.5
Std Dev 417.6
pull1D
Entries 51
Mean −0.003796
Std Dev 1.069

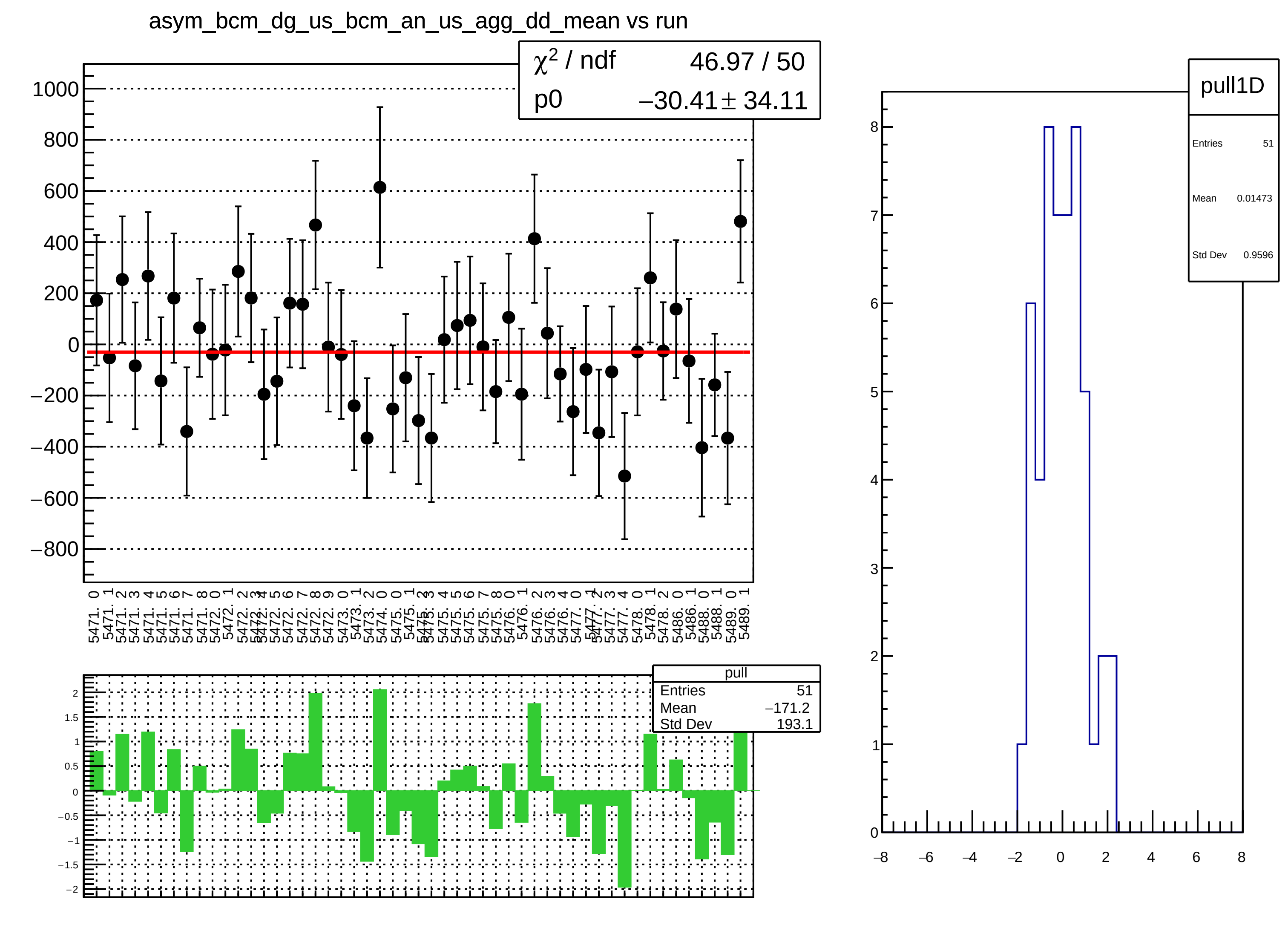


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 2048 / 50
p0 17.84 ± 0.01799
20
19.5
19
18.5
18
17.5
17
16.5

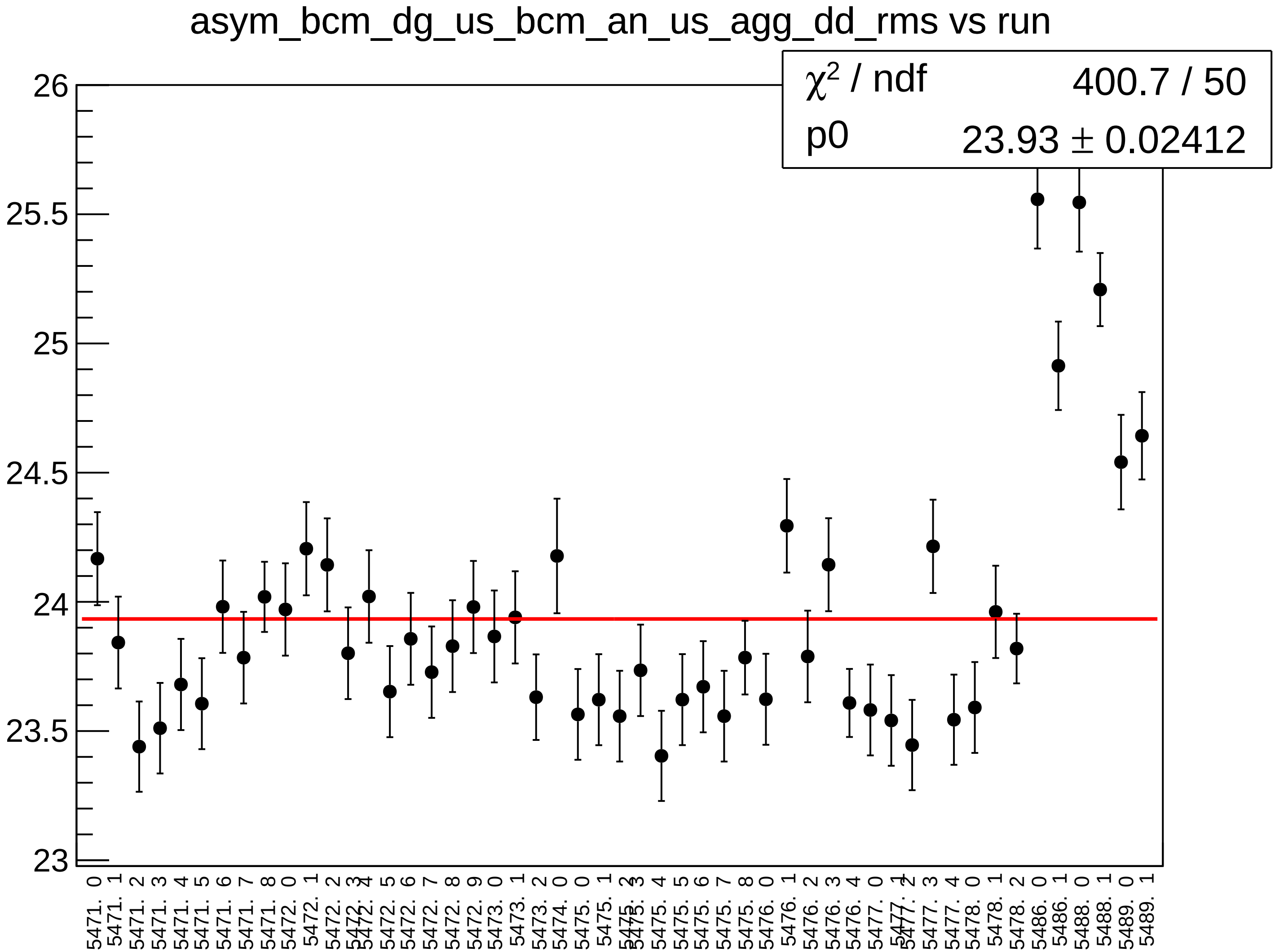


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ^2 / ndf 9.685 / 50
p0 79.86 ± 418.7
pull
Entries 51
Mean 31.39
Std Dev 36.79
pull1D
Entries 51
Mean −0.0114
Std Dev 0.4356

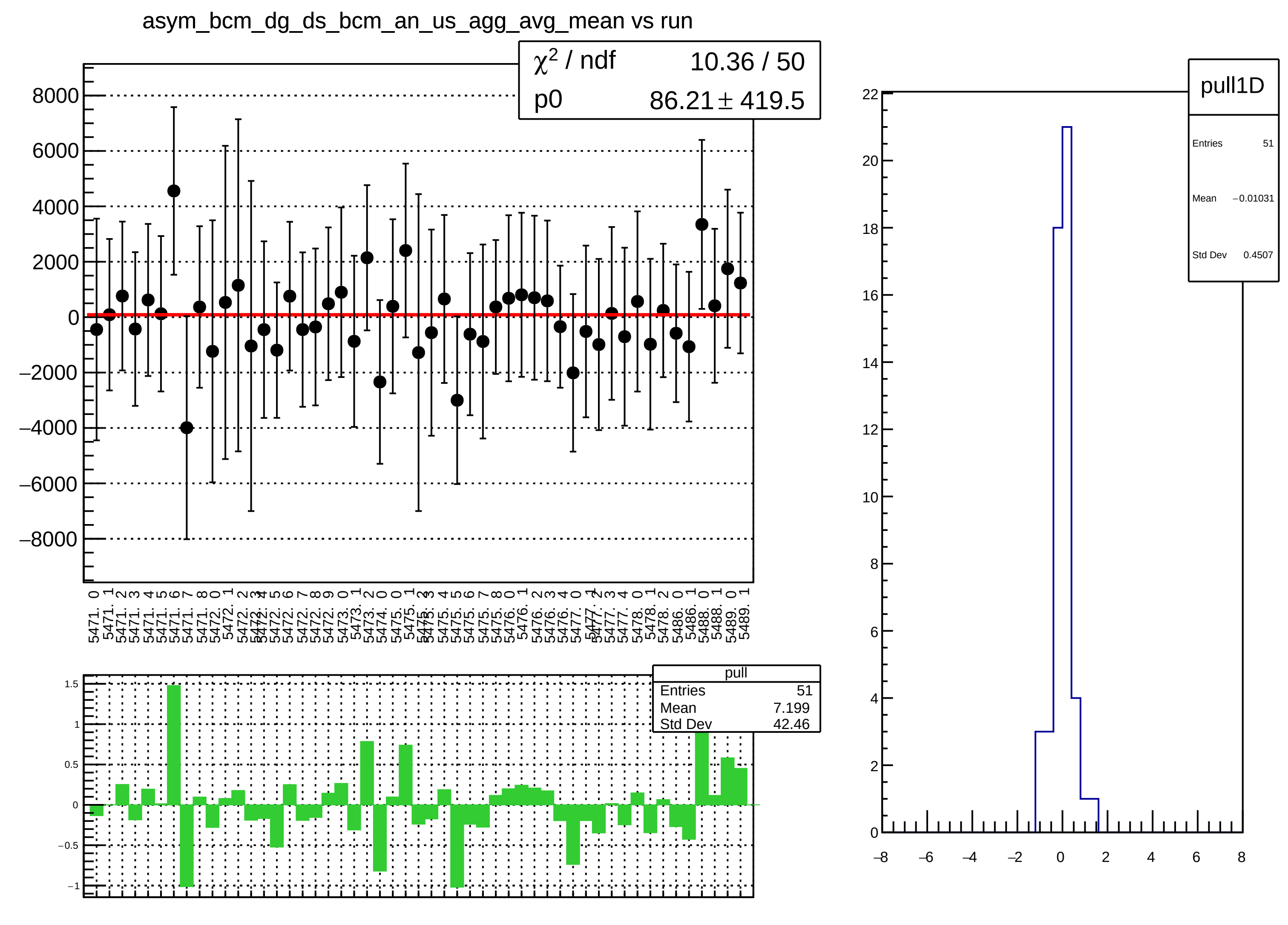

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 2.953e+04 / 50
p0 289.4 ± 0.296
600
550
500
450
400
350
300
250
200



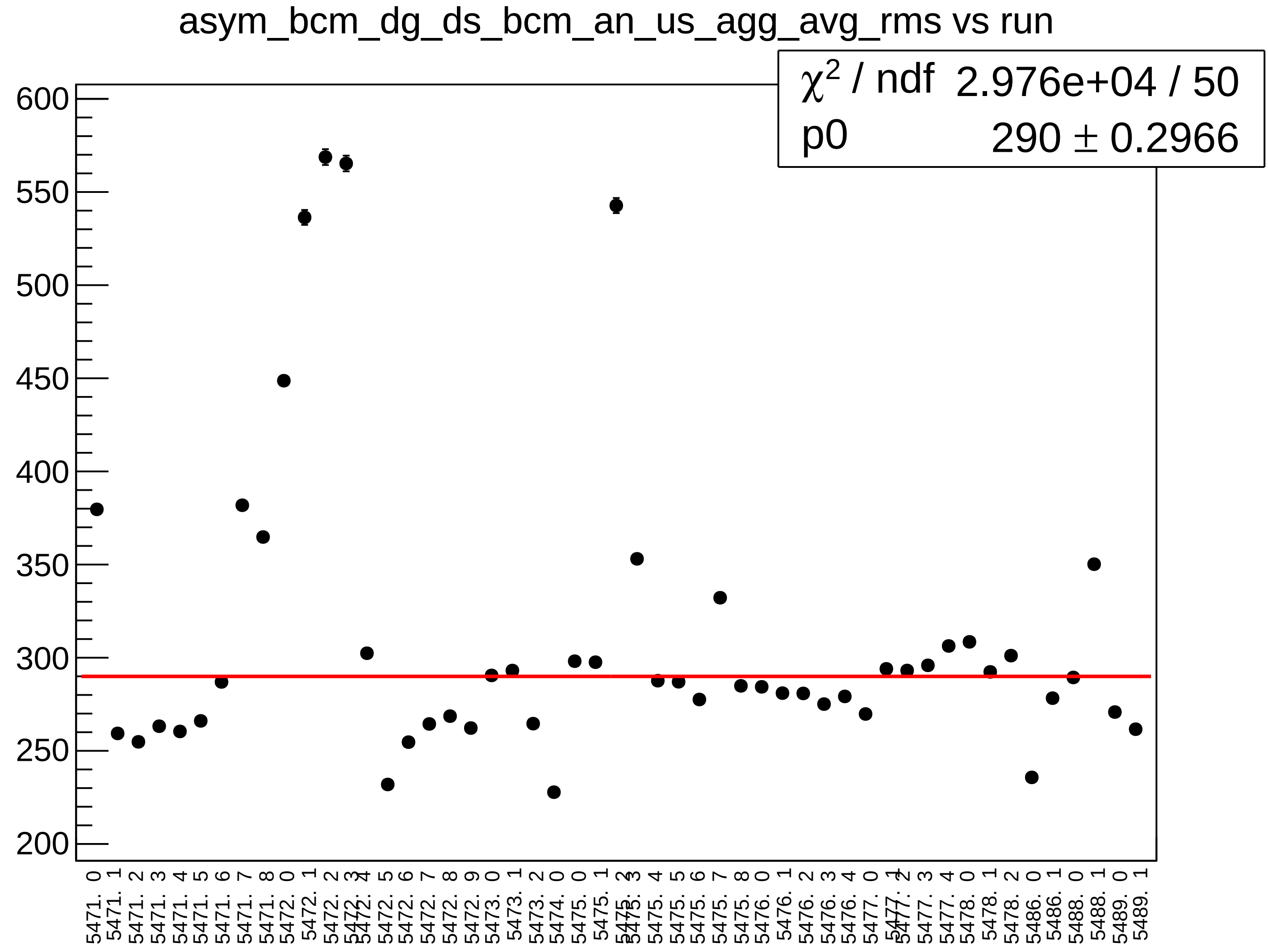
asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 46.97 / 50
p0 −30.41 ± 34.11
pull
Entries 51
Mean −171.2
Std Dev 193.1
pull1D
Entries 51
Mean 0.01473
Std Dev 0.9596



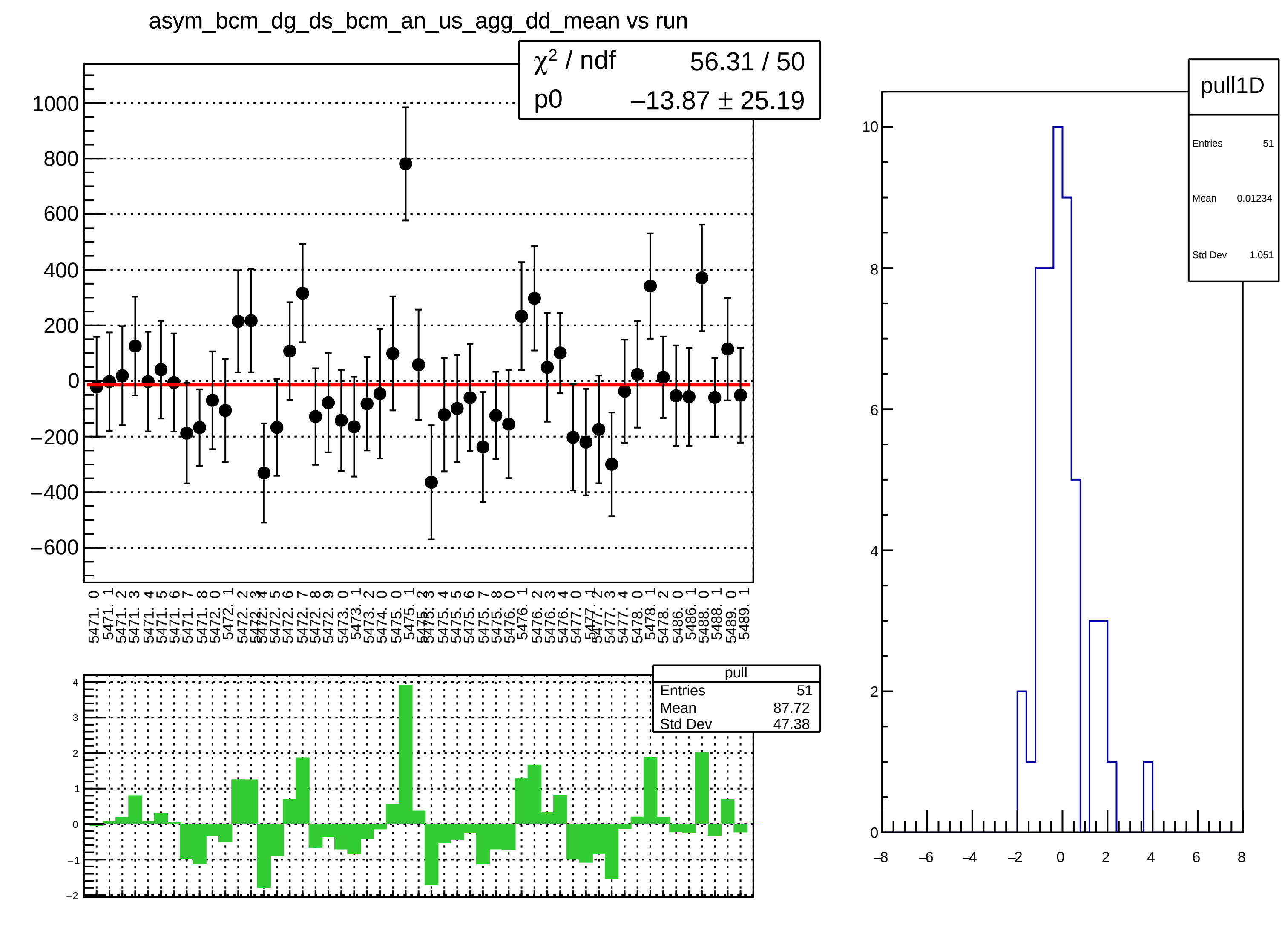
asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ2 / ndf 400.7 / 50
p0 23.93 ± 0.02412
26
25.5
25
24.5
24
23.5
23



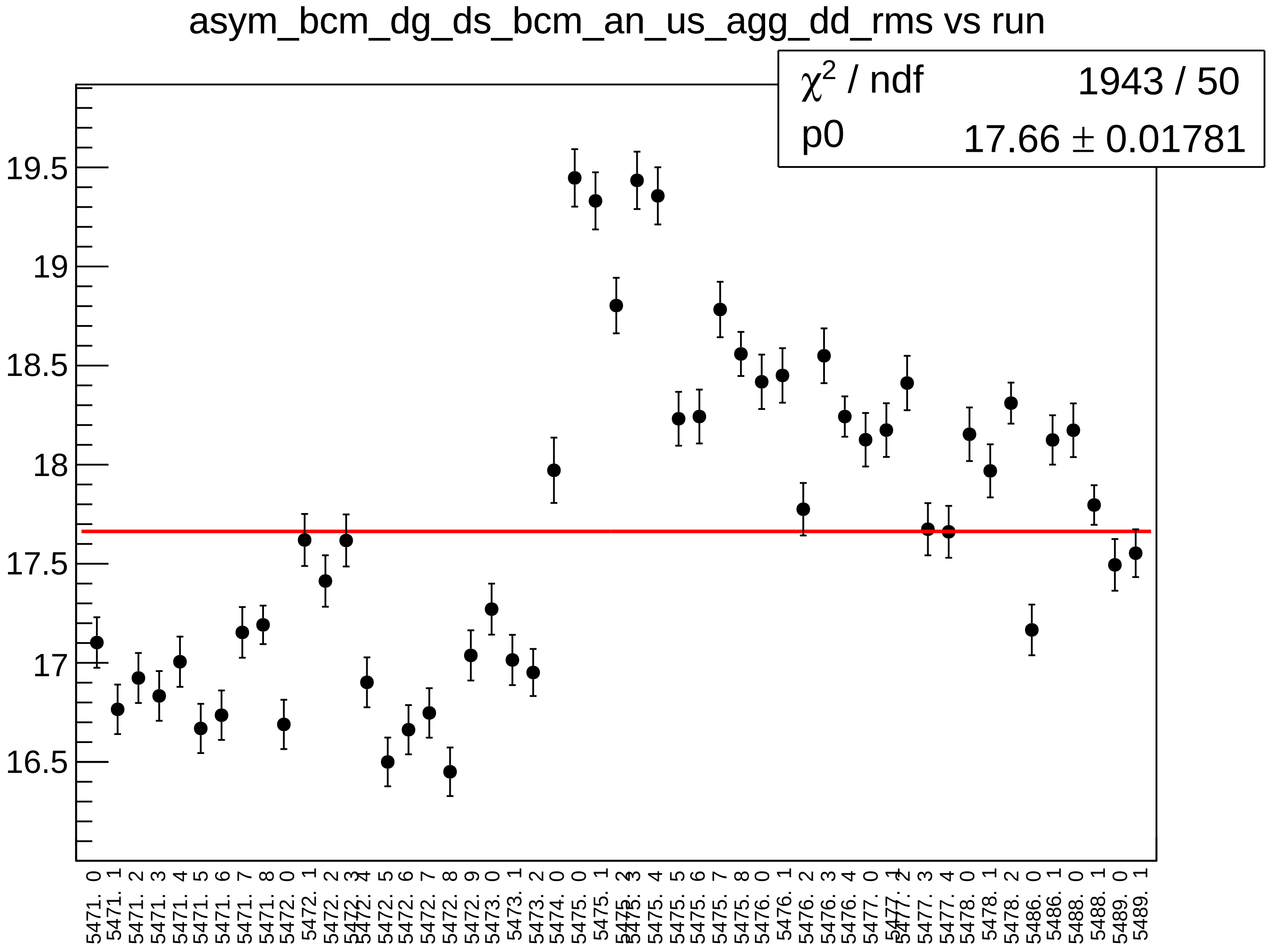
asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ^2 / ndf 10.36 / 50
p0 86.21 ± 419.5
pull
Entries 51
Mean 7.199
Std Dev 42.46
pull1D
Entries 51
Mean −0.01031
Std Dev 0.4507



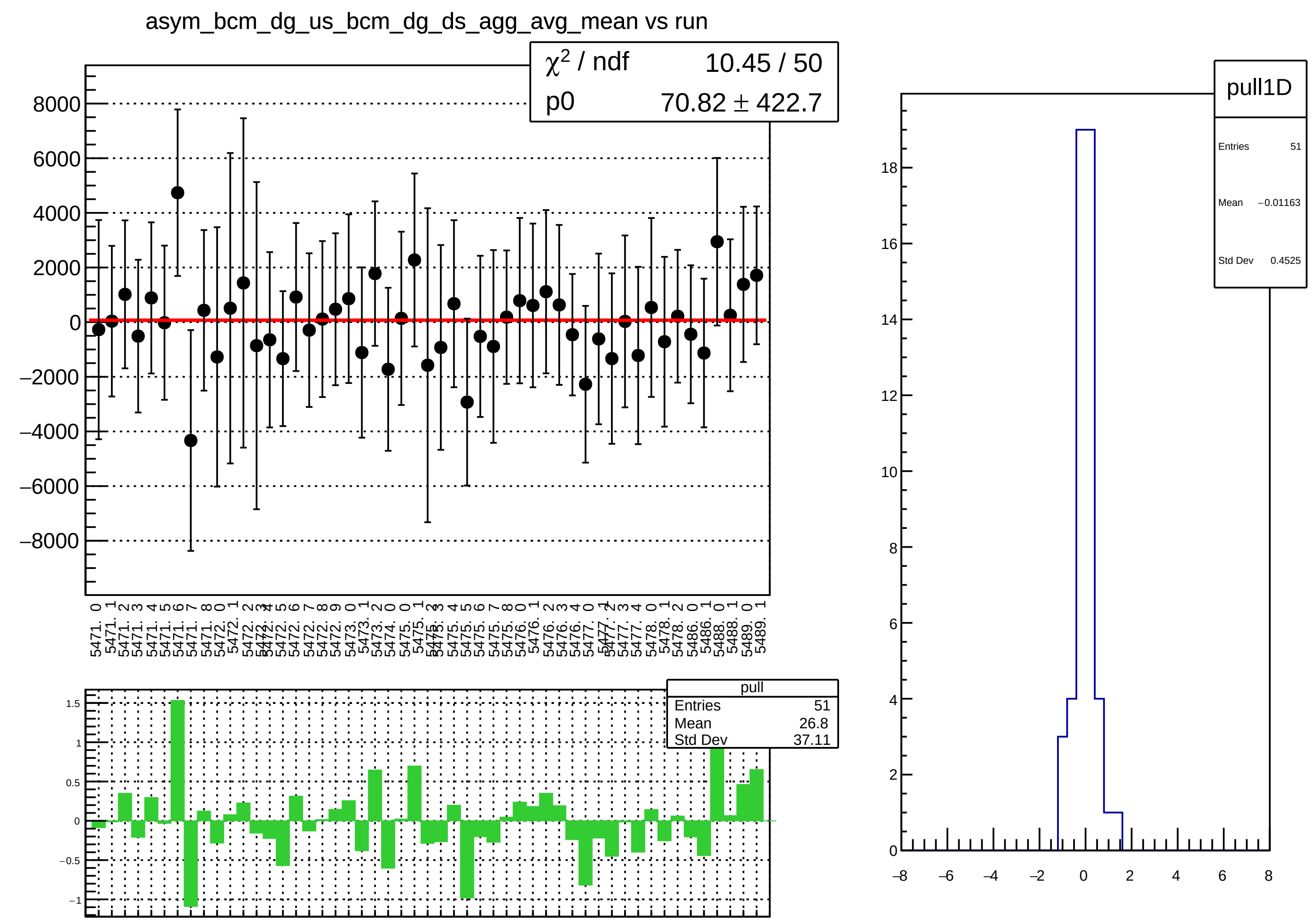
asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 2.976e+04 / 50
p0 290 ± 0.2966
600
550
500
450
400
350
300
250
200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



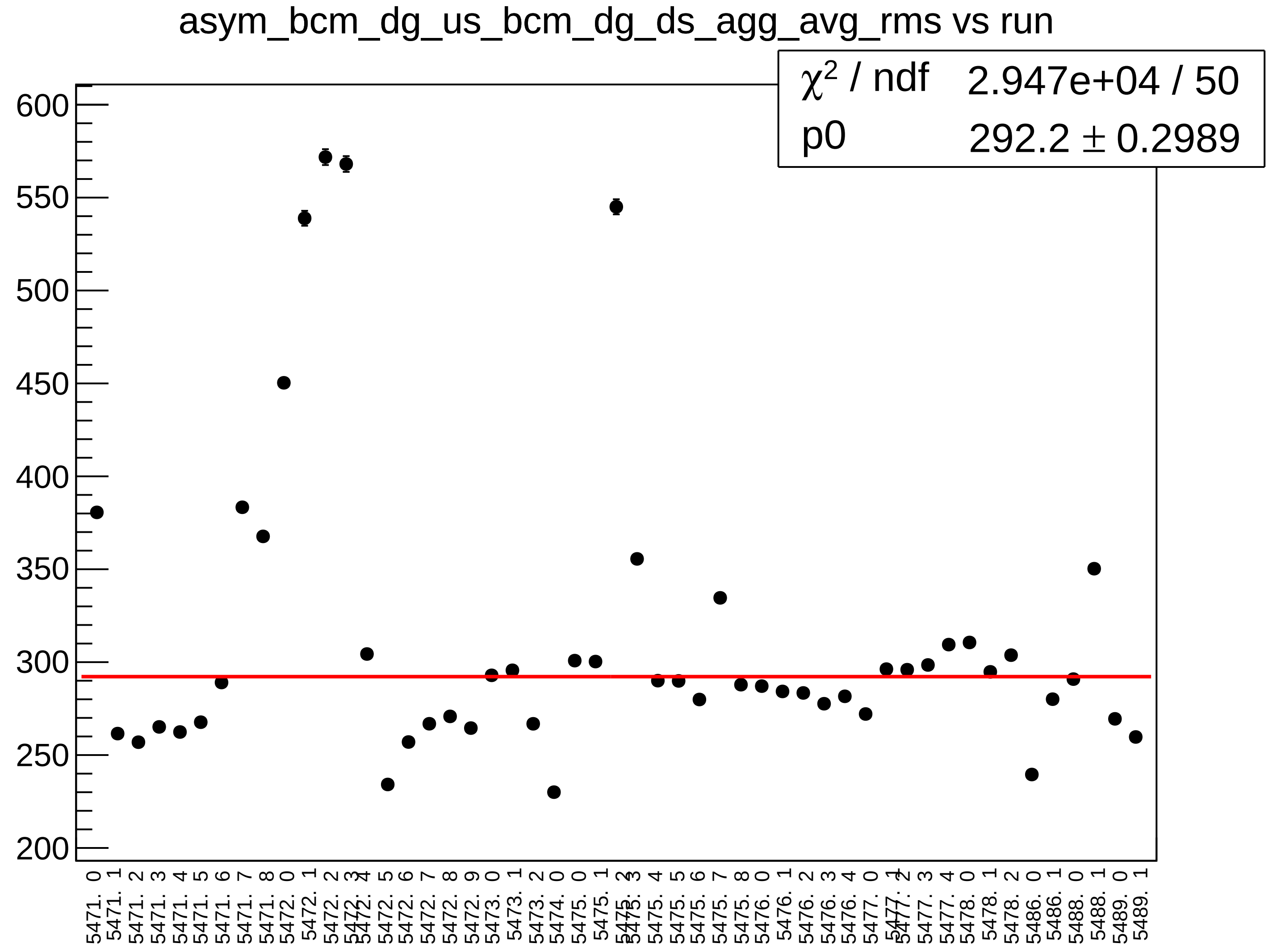
asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ2 / ndf 56.31 / 50
p0 −13.87 ± 25.19
pull
Entries 51
Mean 87.72
Std Dev 47.38
pull1D
Entries 51
Mean 0.01234
Std Dev 1.051



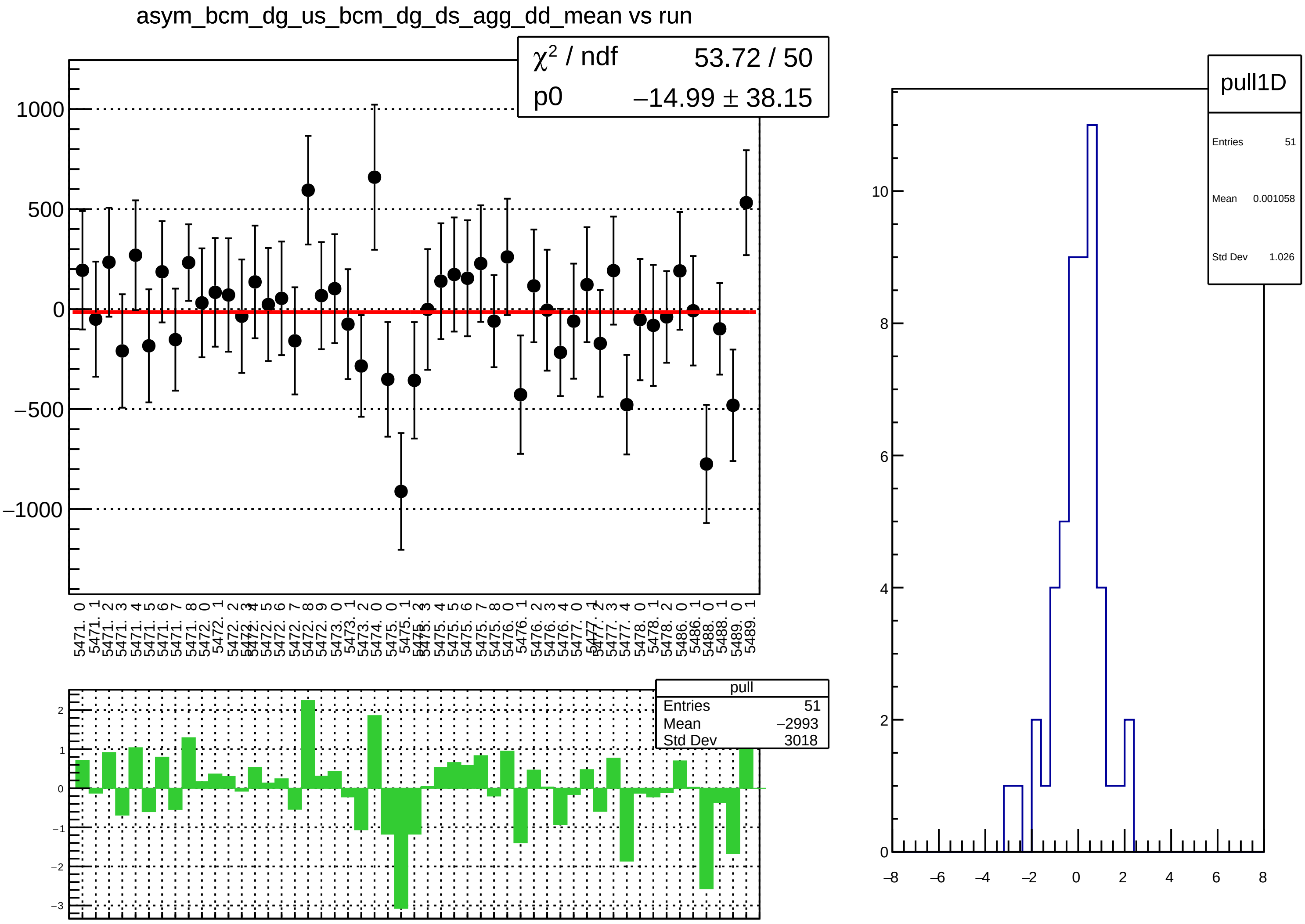
asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 1943 / 50
p0 17.66 ± 0.01781
19.5
19
18.5
18
17.5
17
16.5



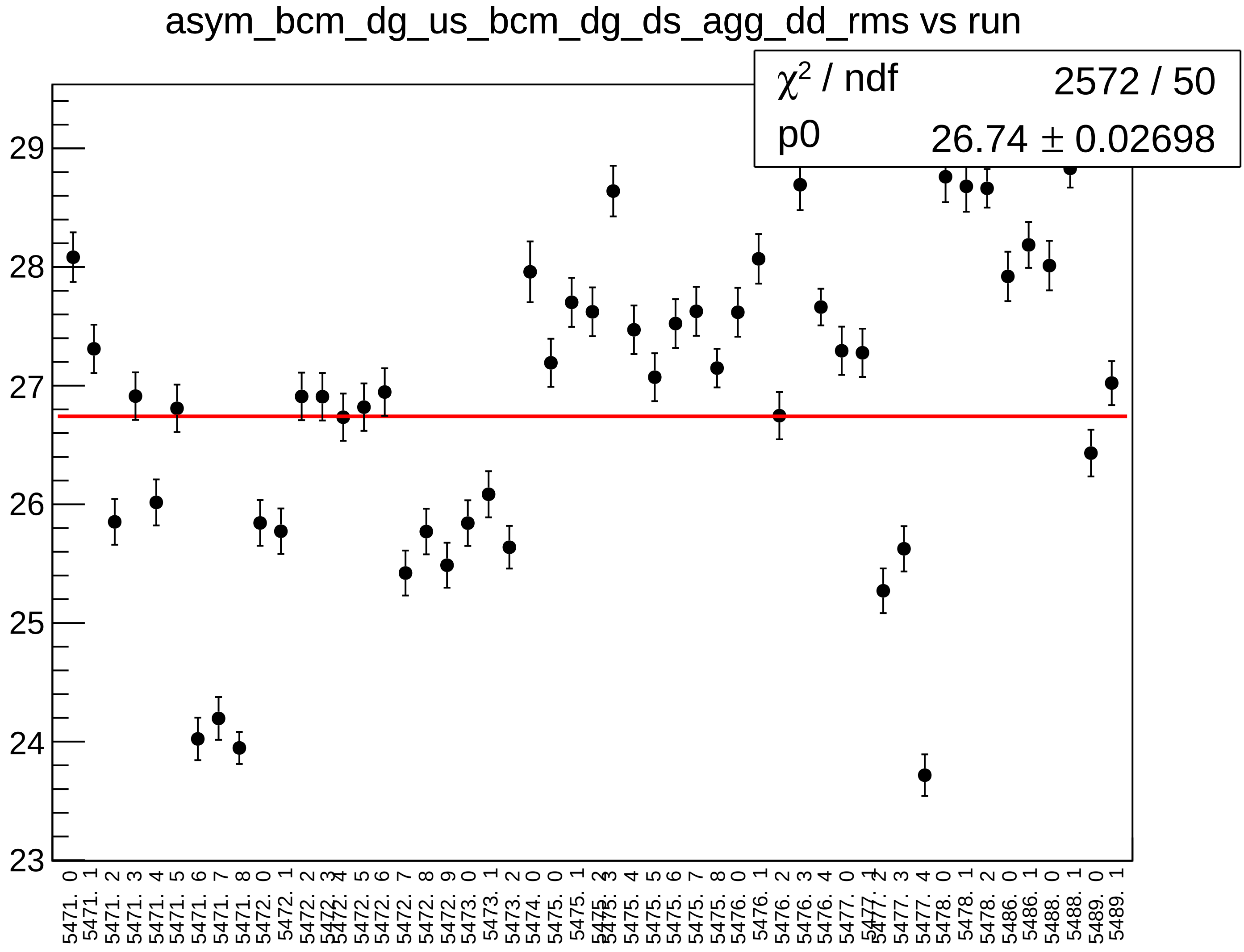
asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ^2 / ndf 10.45 / 50
p0 70.82 ± 422.7
pull
Entries 51
Mean 26.8
Std Dev 37.11
pull1D
Entries 51
Mean −0.01163
Std Dev 0.4525



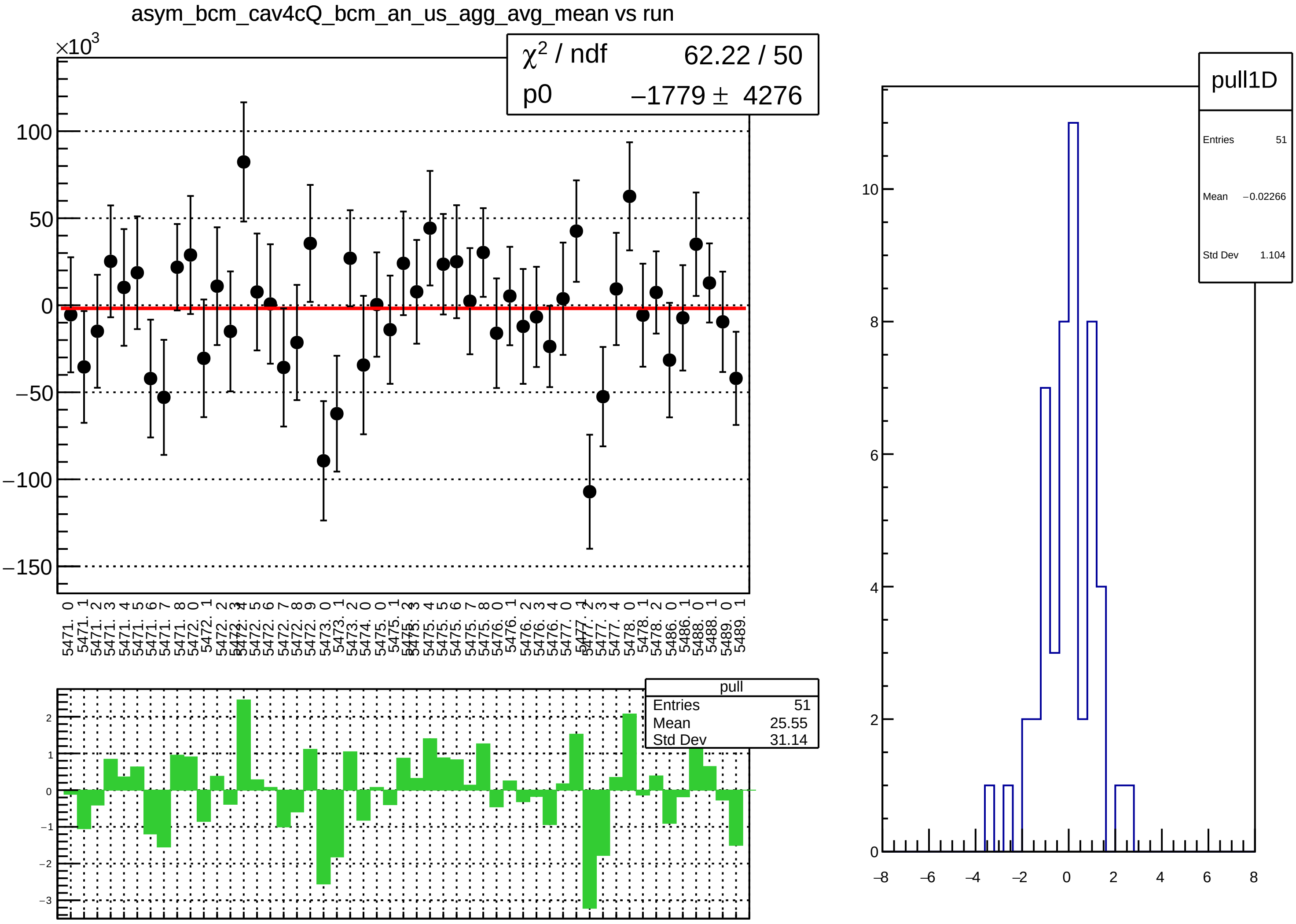
asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ^2 / ndf 2.947e+04 / 50
p0 292.2 ± 0.2989
600
550
500
450
400
350
300
250
200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

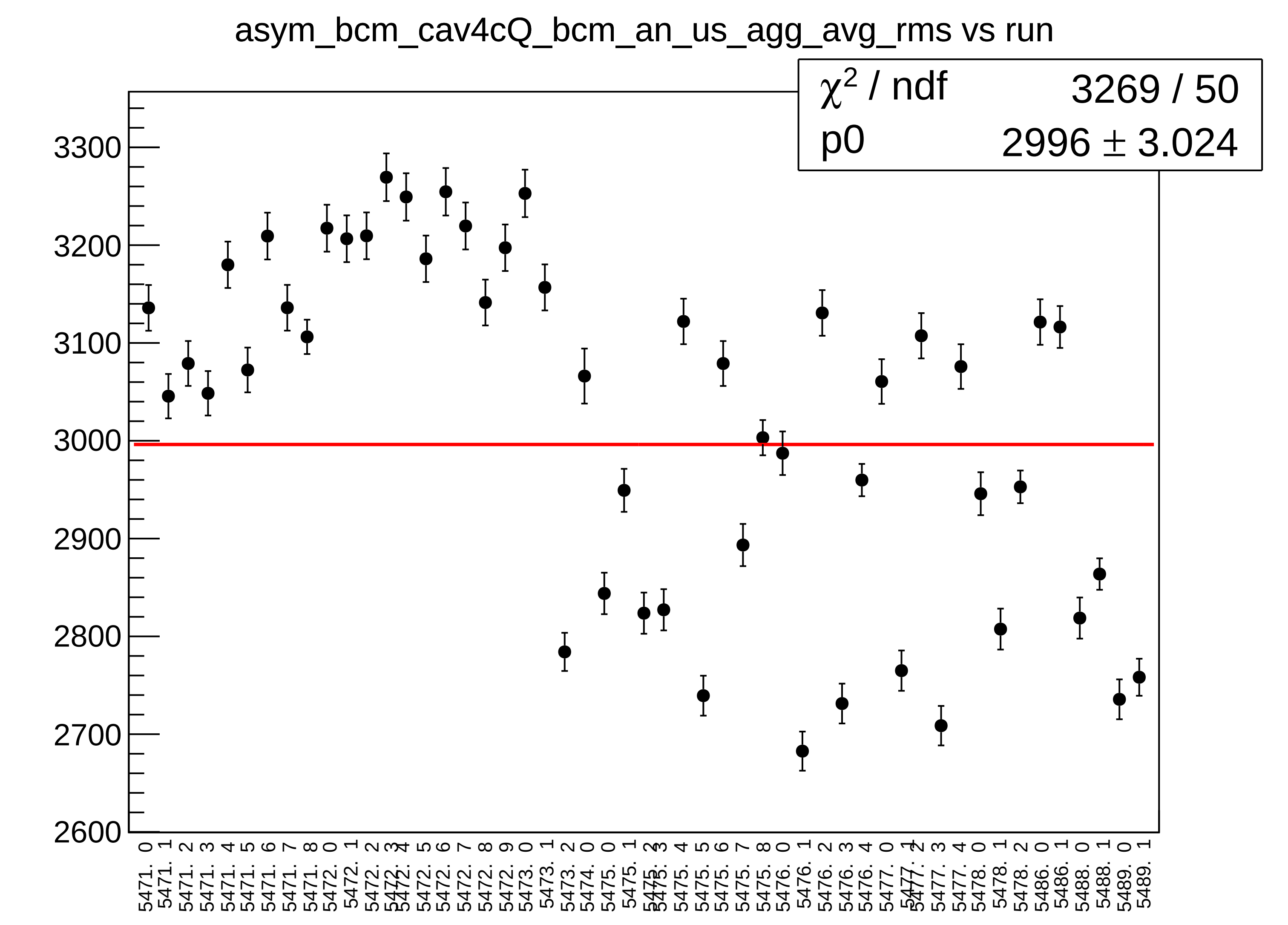


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ^2 / ndf 53.72 / 50
p0 −14.99 ± 38.15
pull
Entries 51
Mean −2993
Std Dev 3018
pull1D
Entries 51
Mean 0.001058
Std Dev 1.026

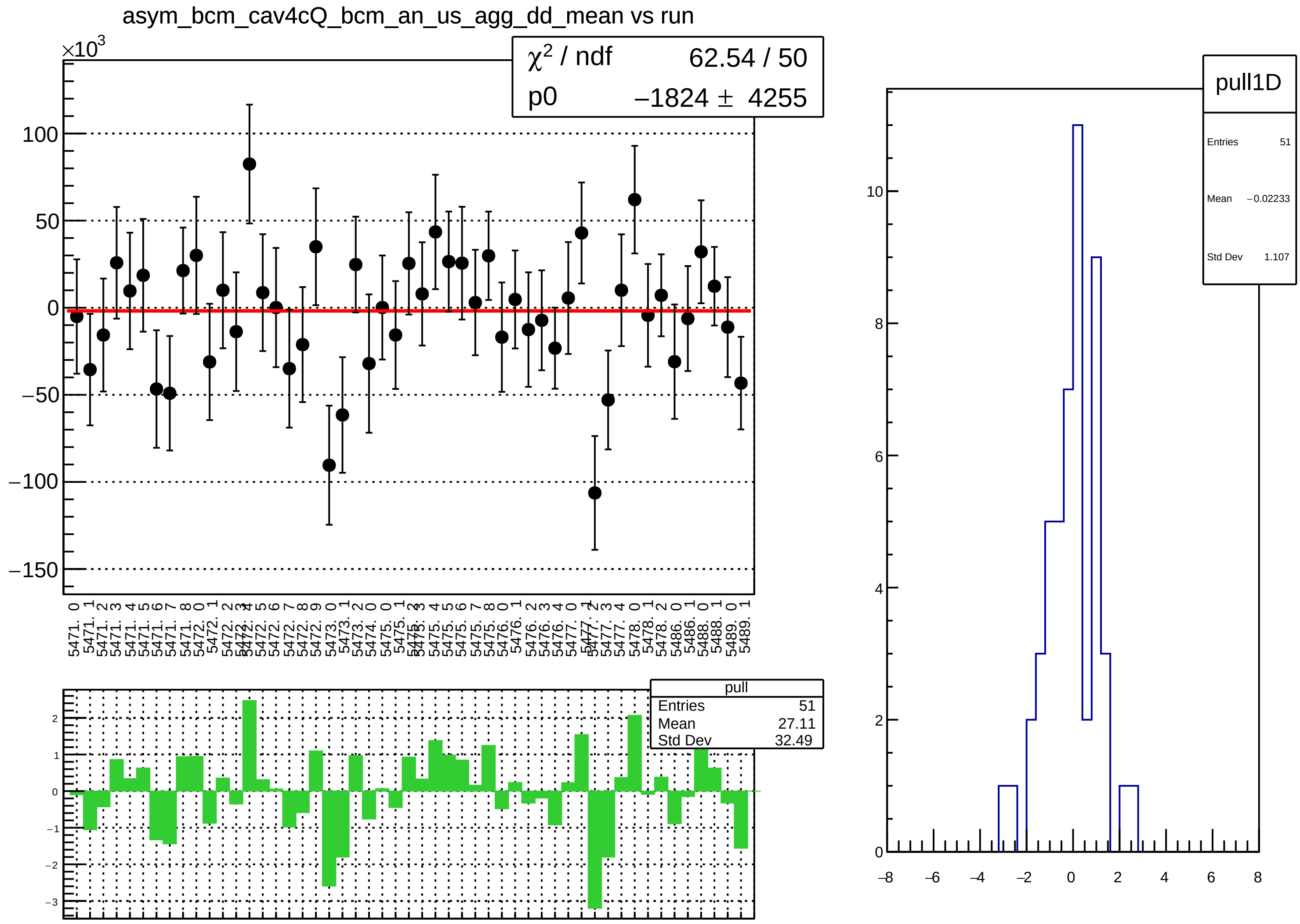


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ2 / ndf 2572 / 50
p0 26.74 ± 0.02698
29
28
27
26
25
24
23

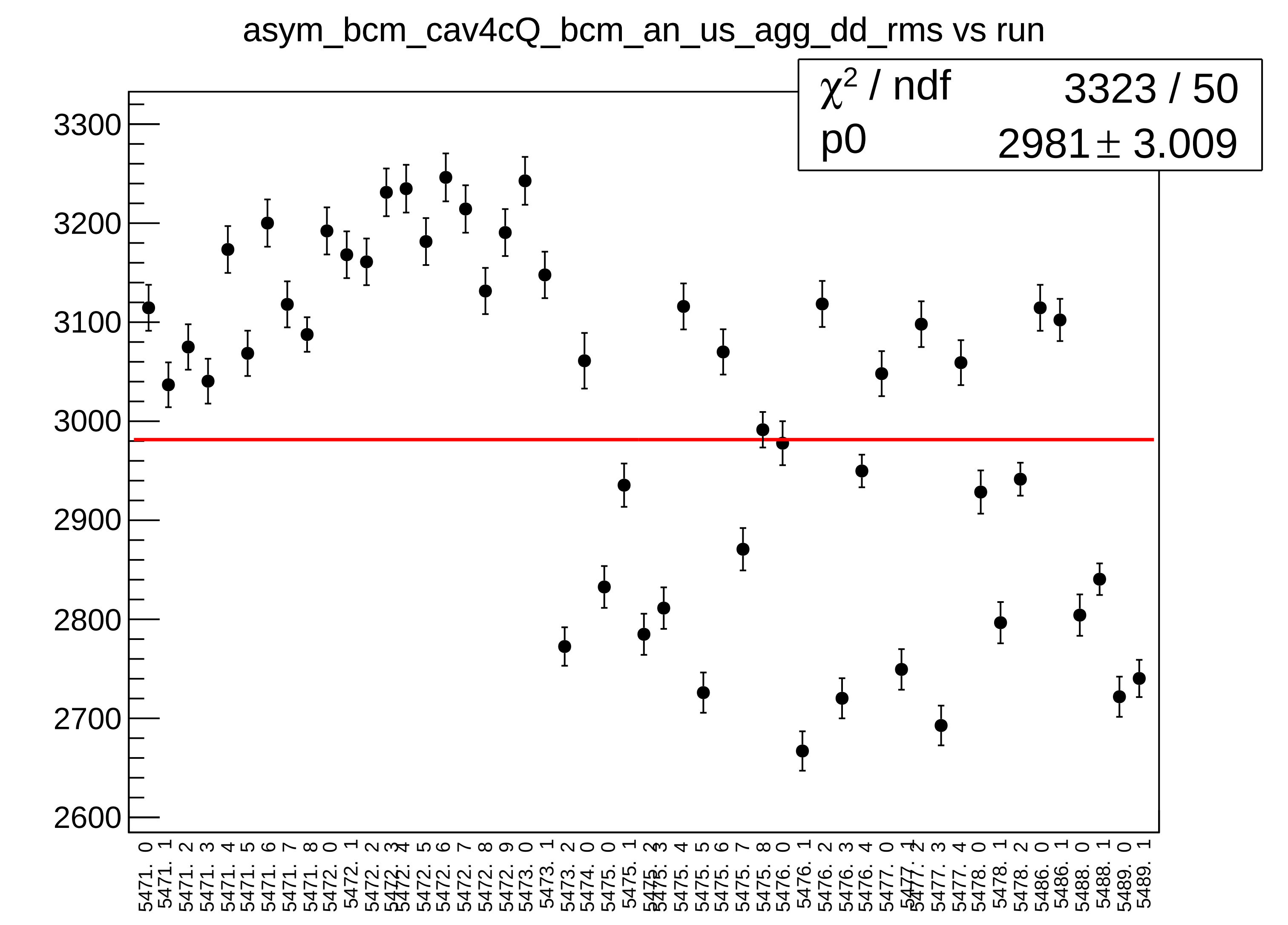

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
×10^3
χ2 / ndf 62.22 / 50
p0 −1779 ± 4276
pull
Entries 51
Mean 25.55
Std Dev 31.14
pull1D
Entries 51
Mean −0.02266
Std Dev 1.104



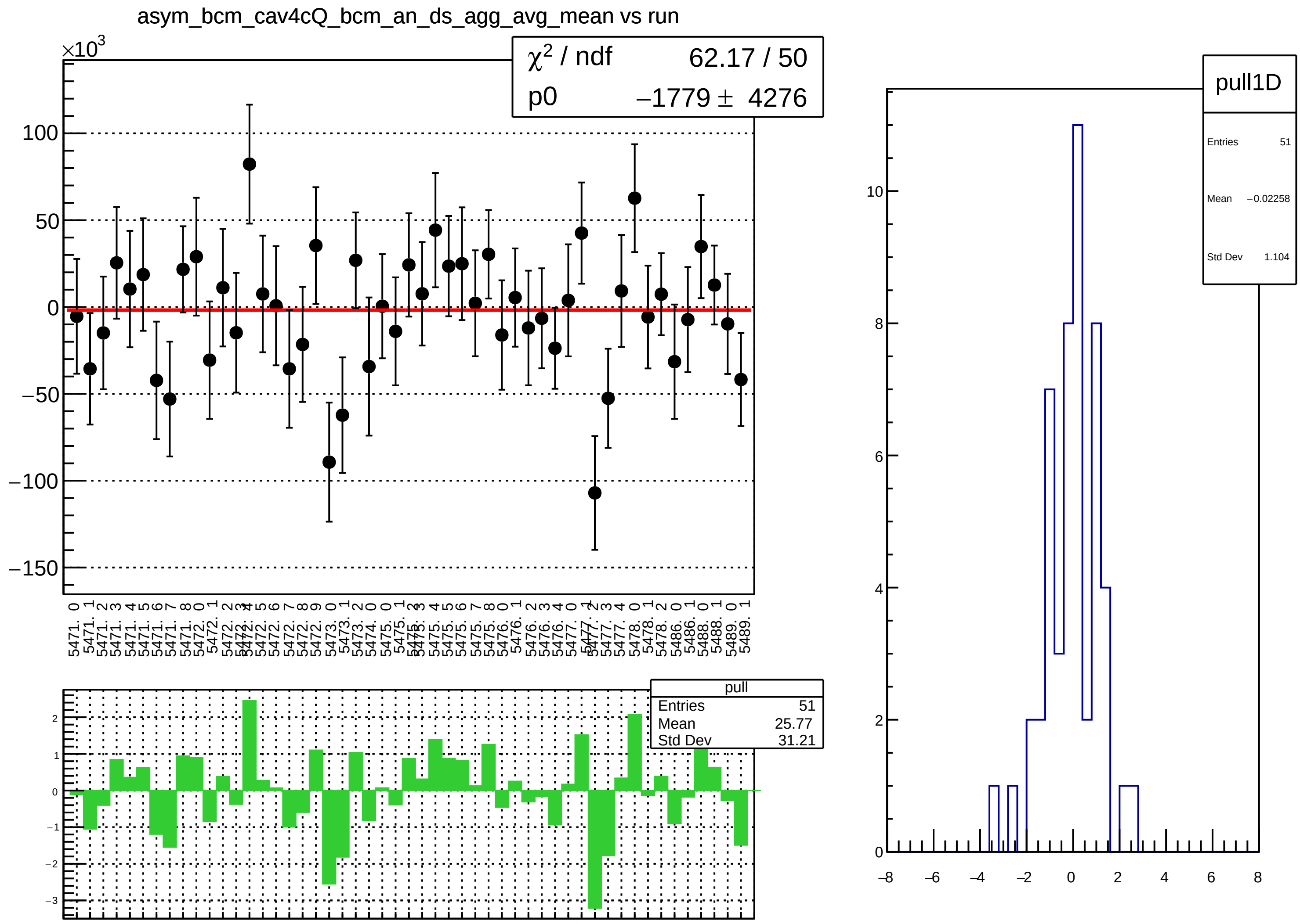
asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ2 / ndf 3269 / 50
p0 2996 ± 3.024
3300
3200
3100
3000
2900
2800
2700
2600



asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 62.54 / 50
p0 −1824 ± 4255
pull
Entries 51
Mean 27.11
Std Dev 32.49
pull1D
Entries 51
Mean −0.02233
Std Dev 1.107

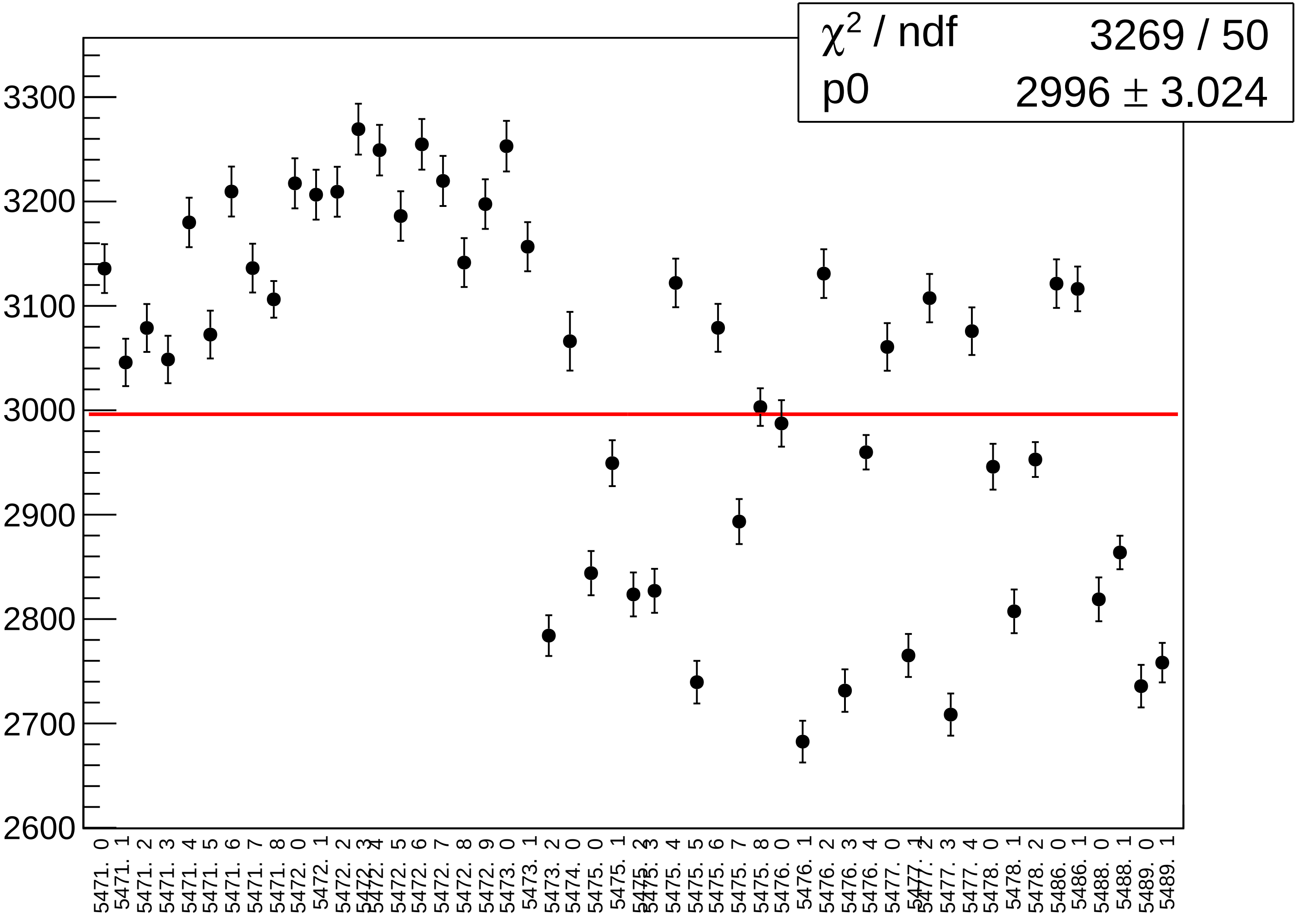


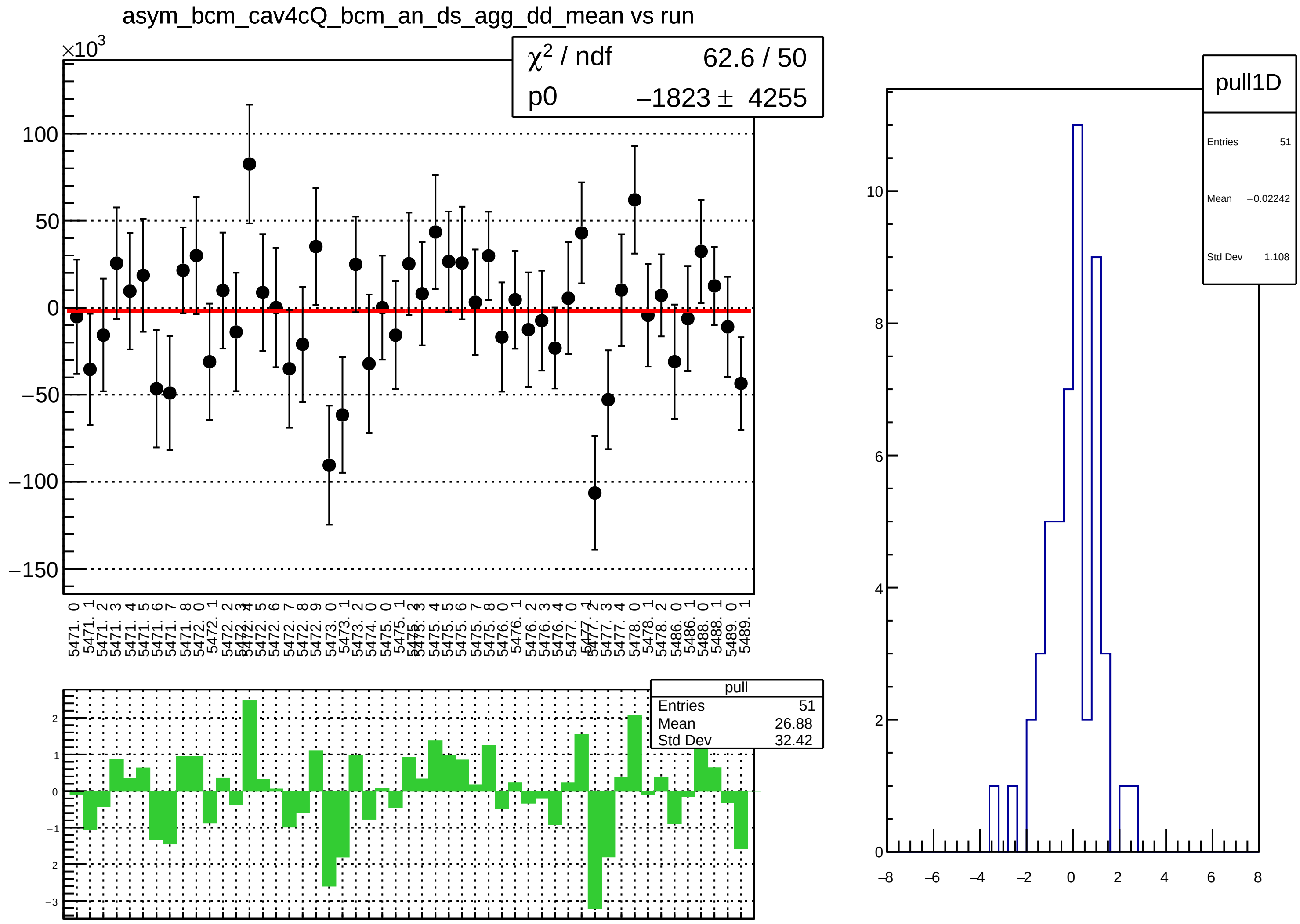
asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ2 / ndf 3323 / 50
p0 2981 ± 3.009
3300
3200
3100
3000
2900
2800
2700
2600



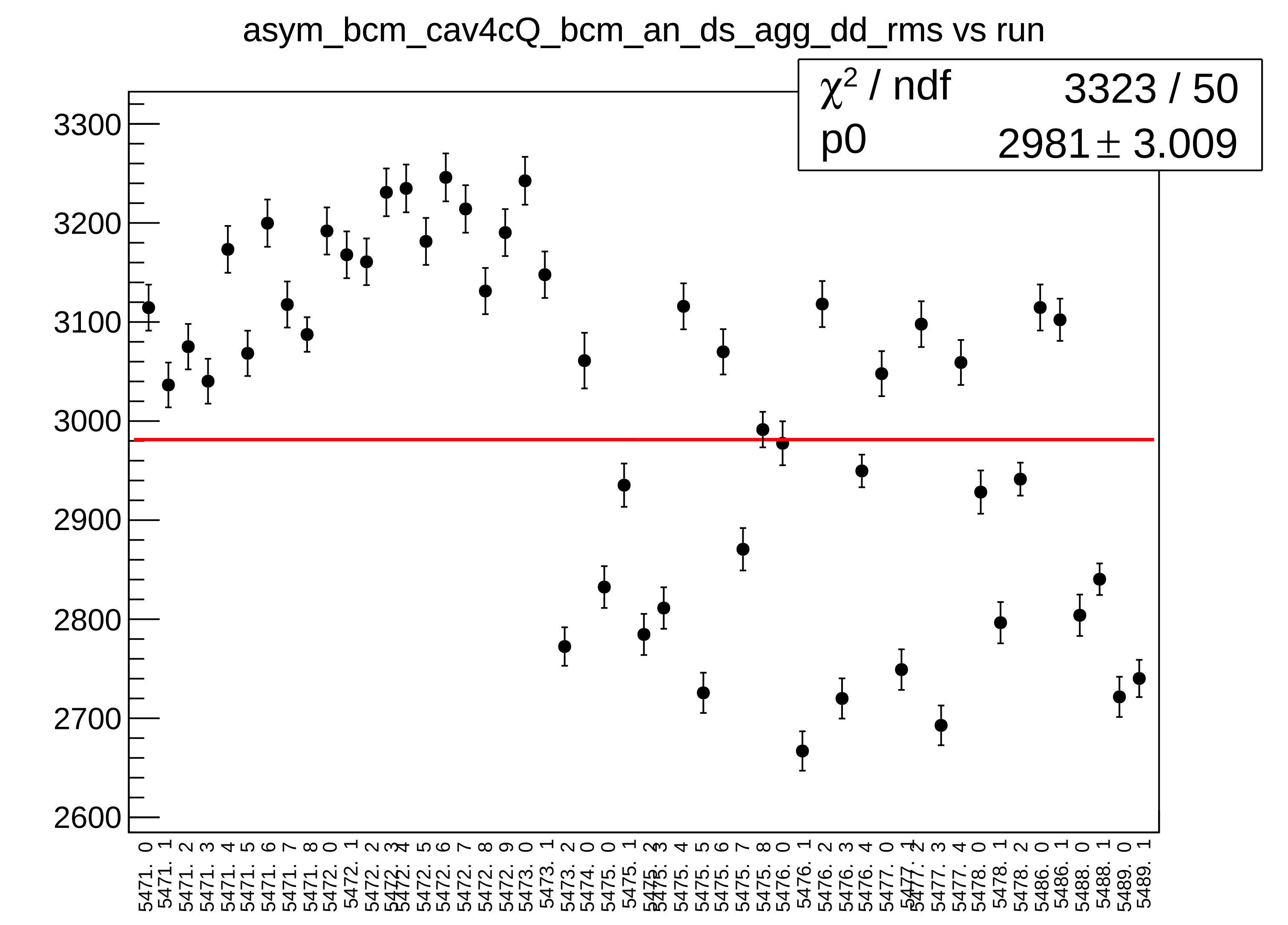
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
×10^3
χ2 / ndf 62.17 / 50
p0 −1779 ± 4276
pull
Entries 51
Mean 25.77
Std Dev 31.21
pull1D
Entries 51
Mean −0.02258
Std Dev 1.104

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run

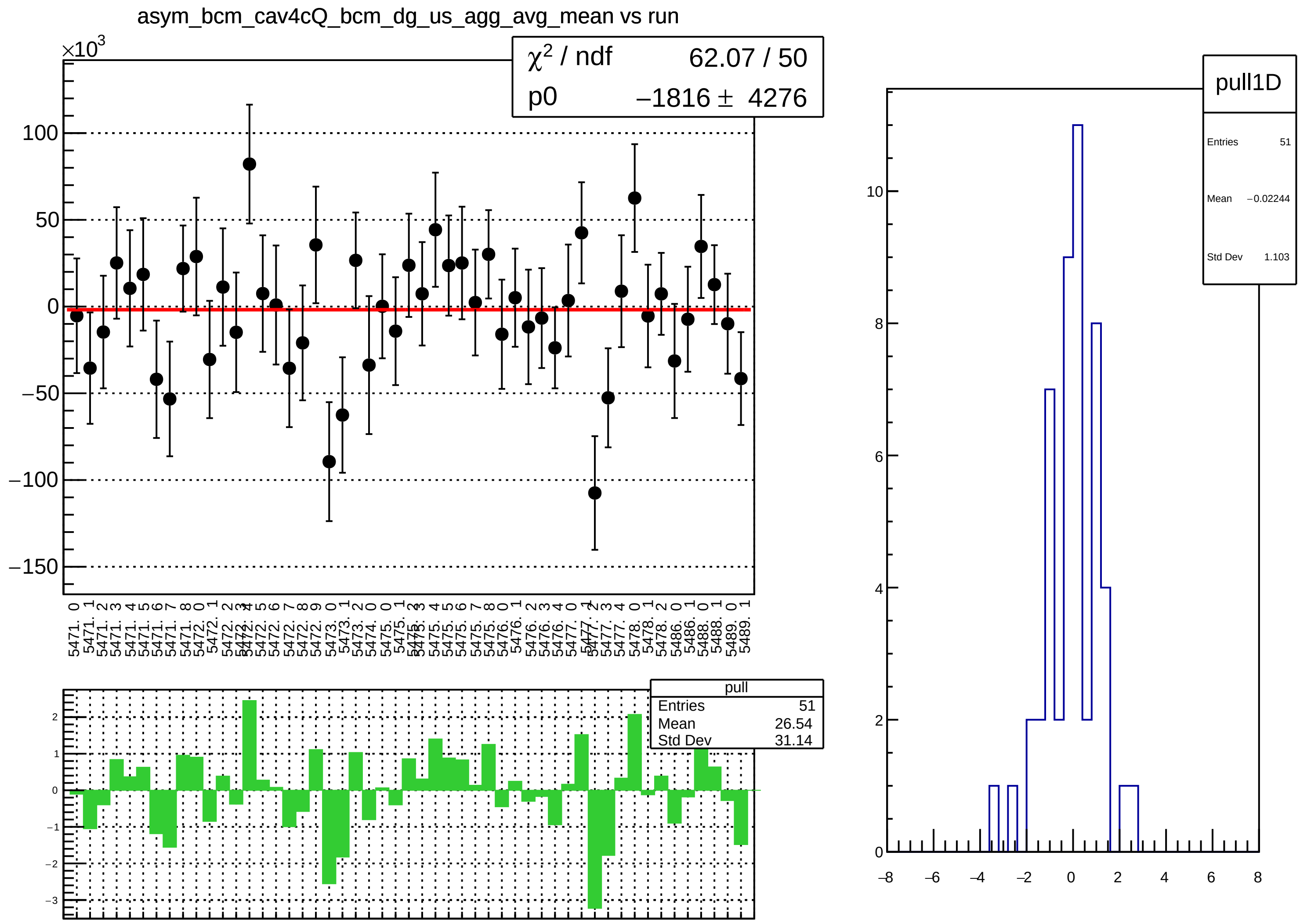


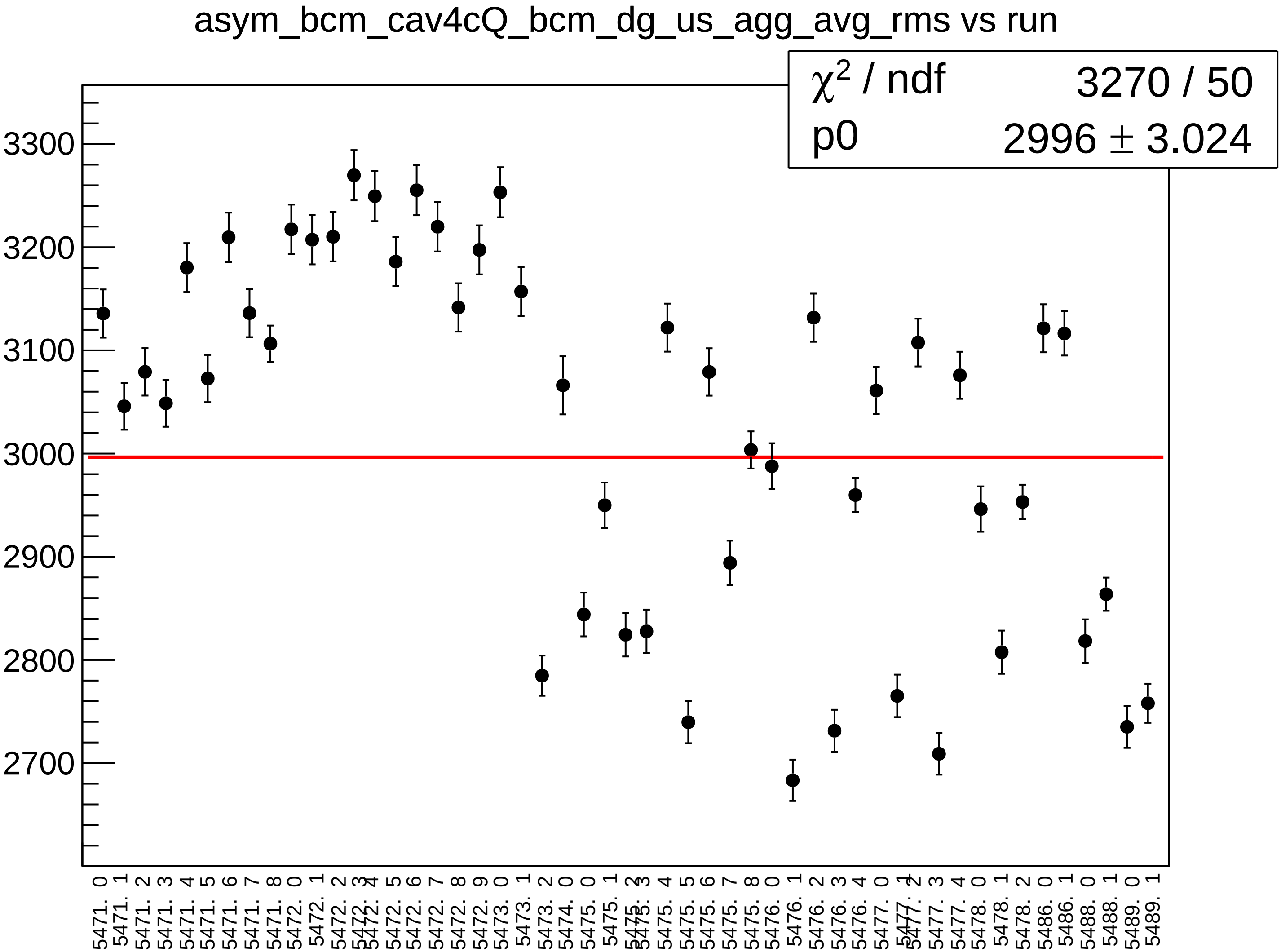


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ^2 / ndf 62.6 / 50
p0 −1823 ± 4255
pull
Entries 51
Mean 26.88
Std Dev 32.42
pull1D
Entries 51
Mean −0.02242
Std Dev 1.108

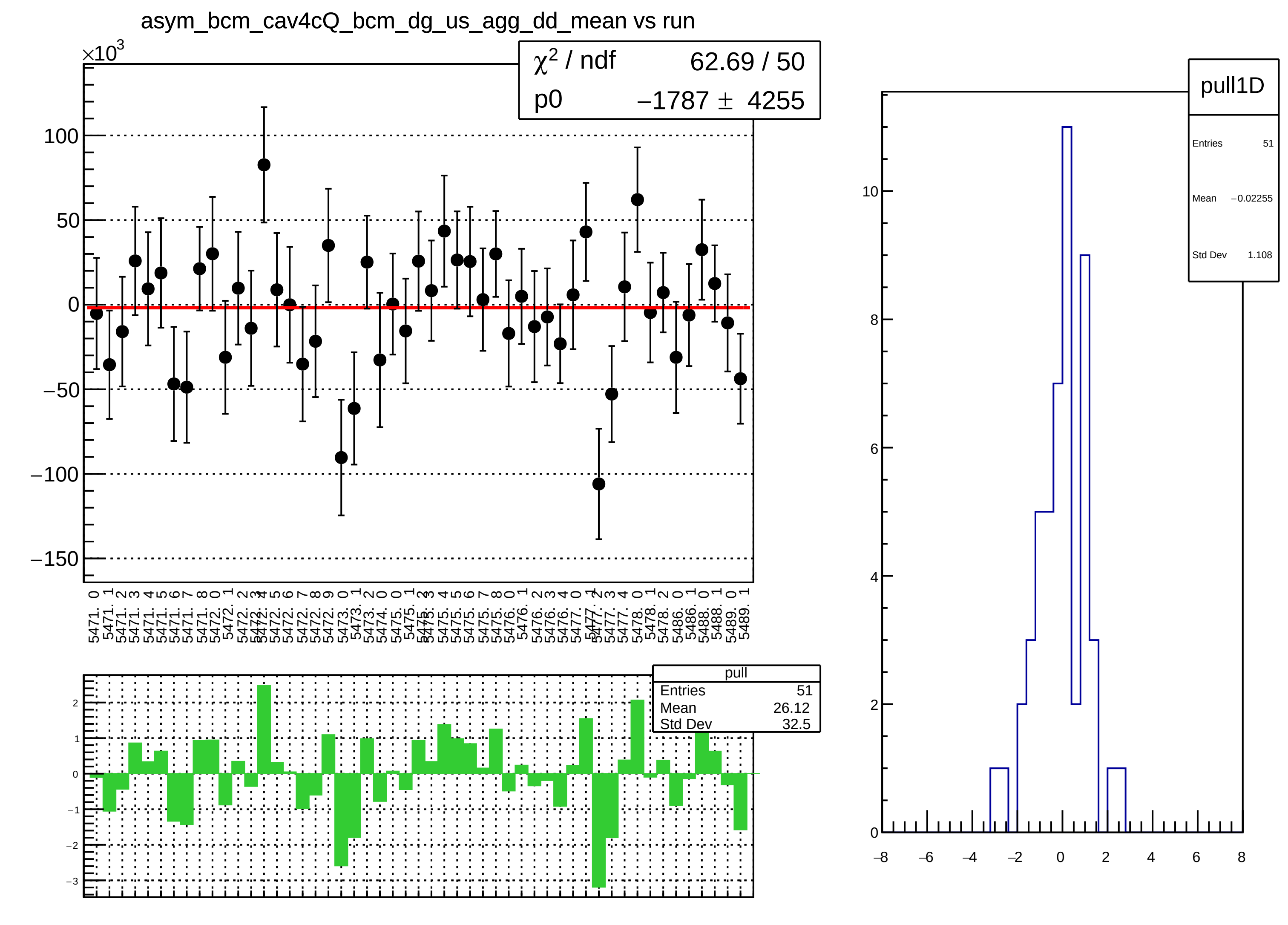


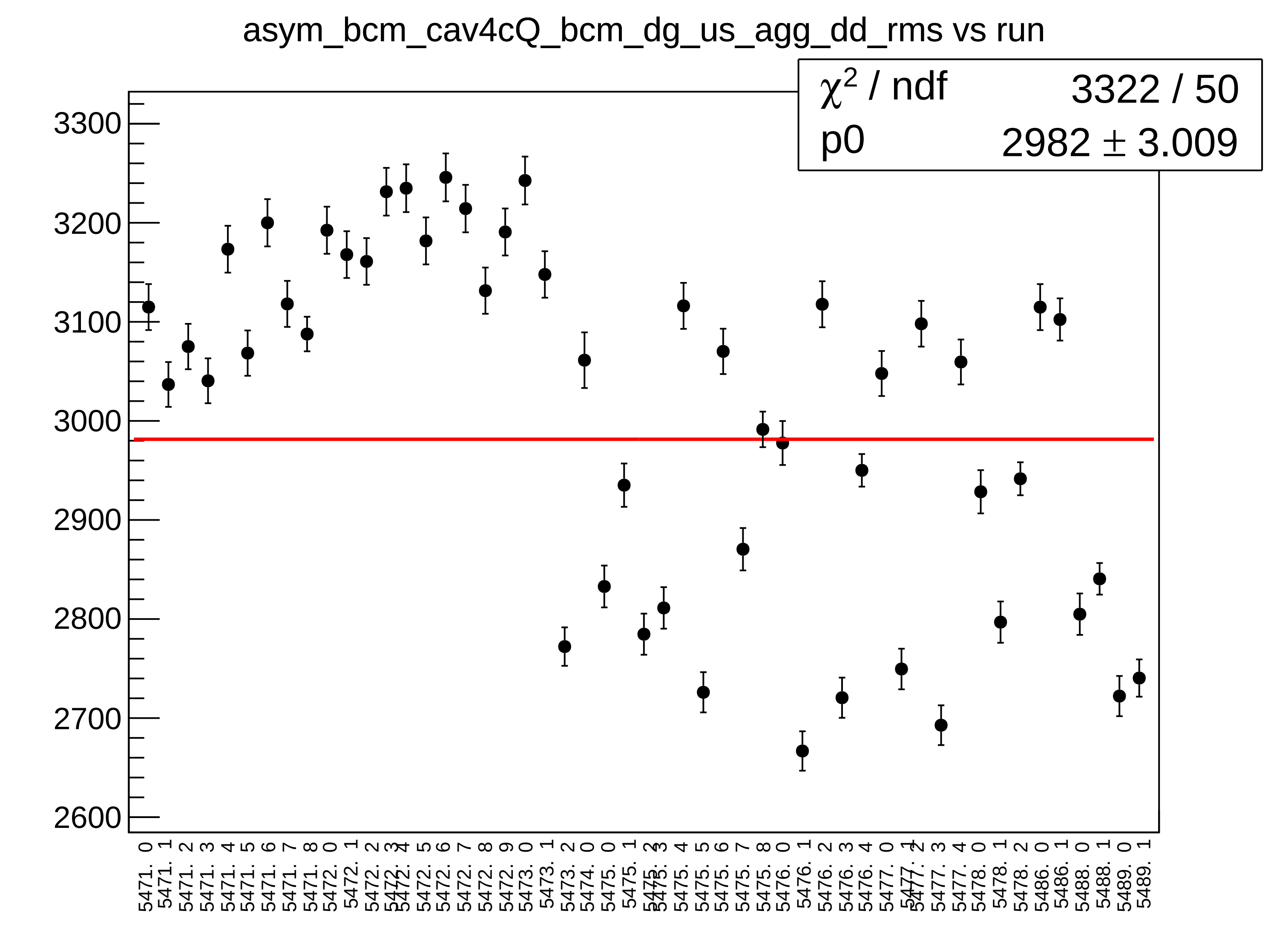
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 3323 / 50
p0 2981 ± 3.009
3300
3200
3100
3000
2900
2800
2700
2600

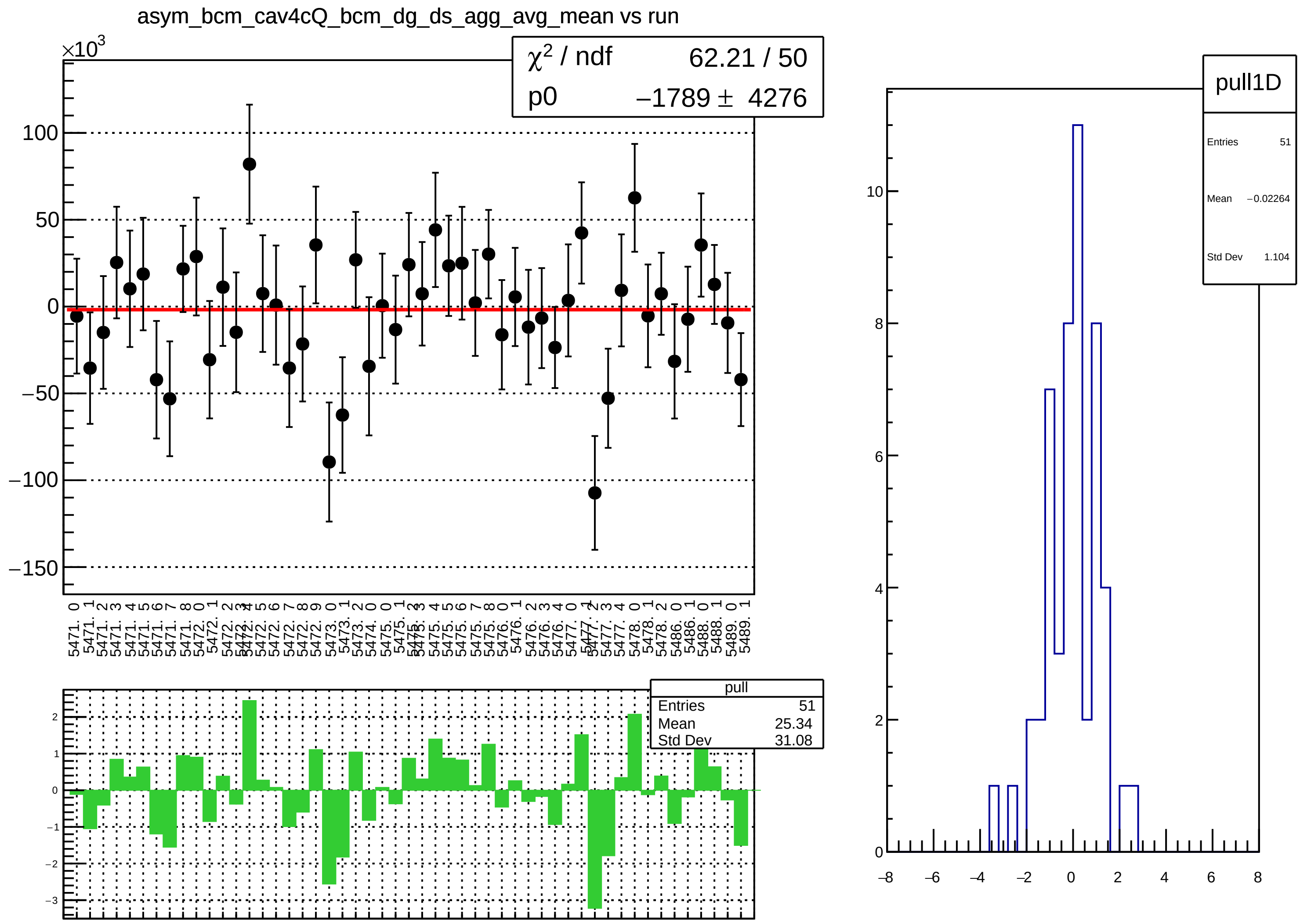

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
×10^3
χ^2 / ndf 62.07 / 50
p0 −1816 ± 4276
100
50
0
−50
−100
−150
pull
Entries 51
Mean 26.54
Std Dev 31.14
pull1D
Entries 51
Mean −0.02244
Std Dev 1.103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



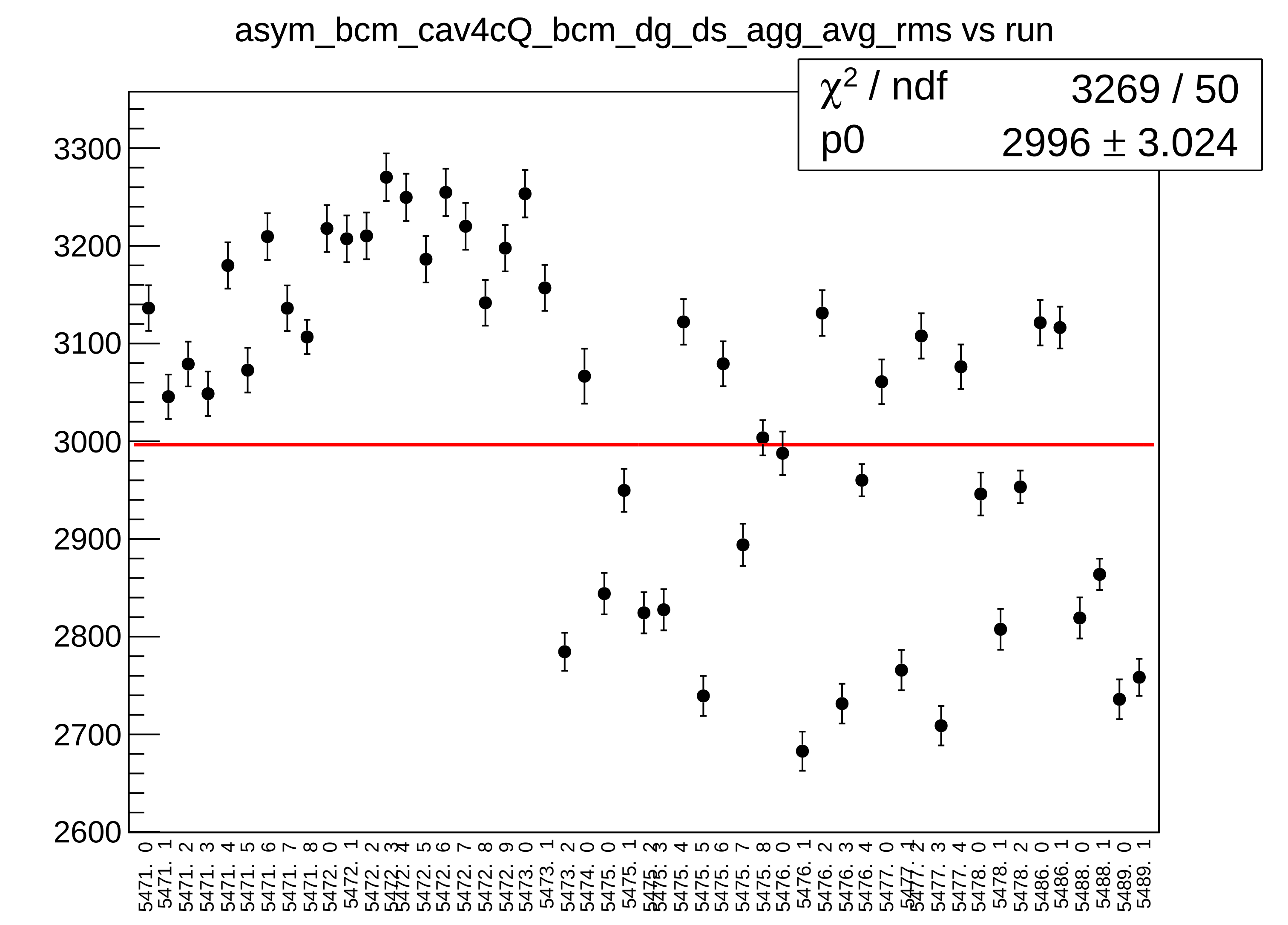
asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ^2 / ndf 3270 / 50
p0 2996 ± 3.024
3300
3200
3100
3000
2900
2800
2700


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
×10^3
χ2 / ndf 62.69 / 50
p0 −1787 ± 4255
pull1D
Entries 51
Mean −0.02255
Std Dev 1.108
pull
Entries 51
Mean 26.12
Std Dev 32.5

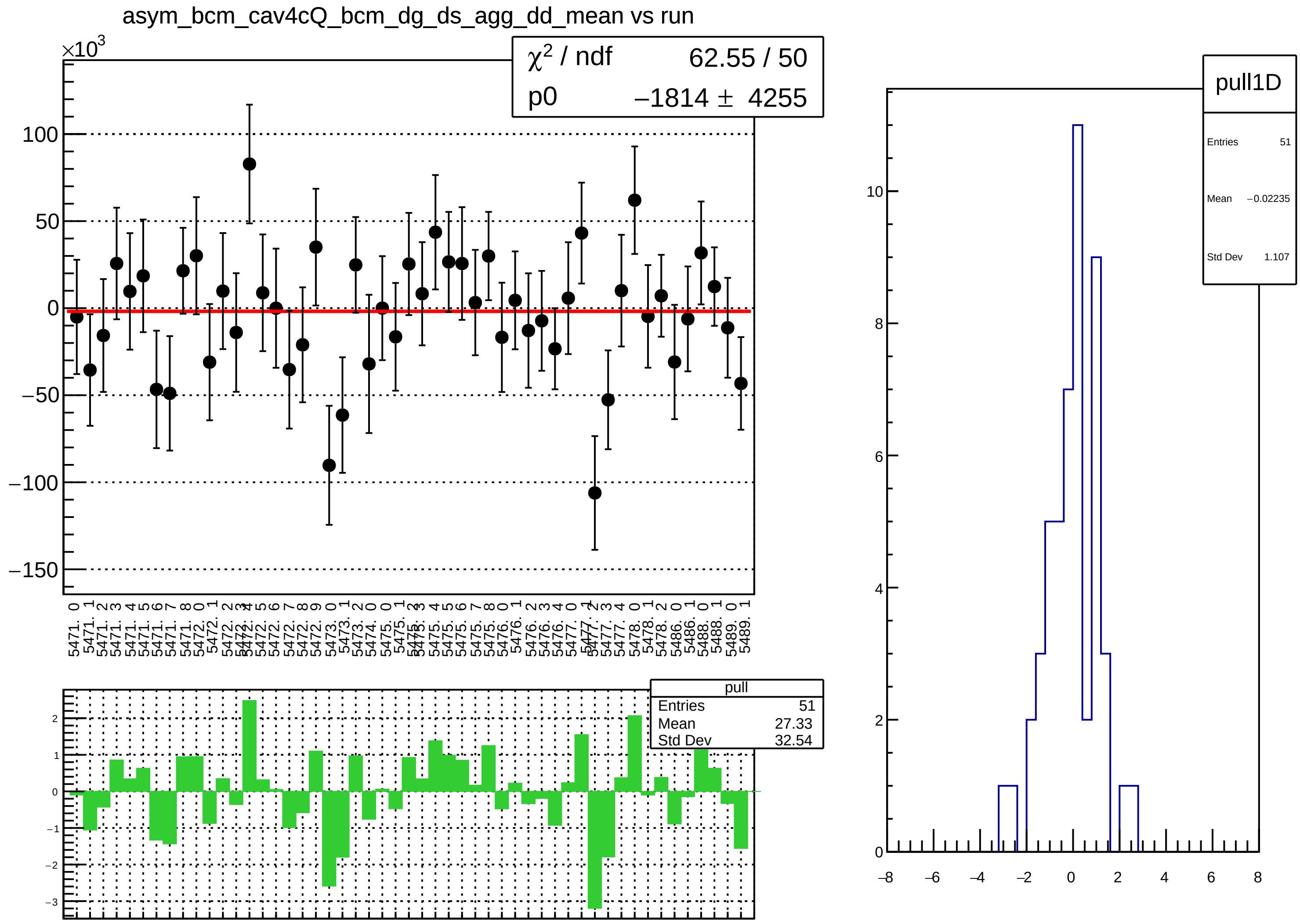

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ^2 / ndf 3322 / 50
p0 2982 ± 3.009
3300
3200
3100
3000
2900
2800
2700
2600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ^2 / ndf 62.21 / 50
p0 −1789 ± 4276
×10³
pull
Entries 51
Mean 25.34
Std Dev 31.08
pull1D
Entries 51
Mean −0.02264
Std Dev 1.104

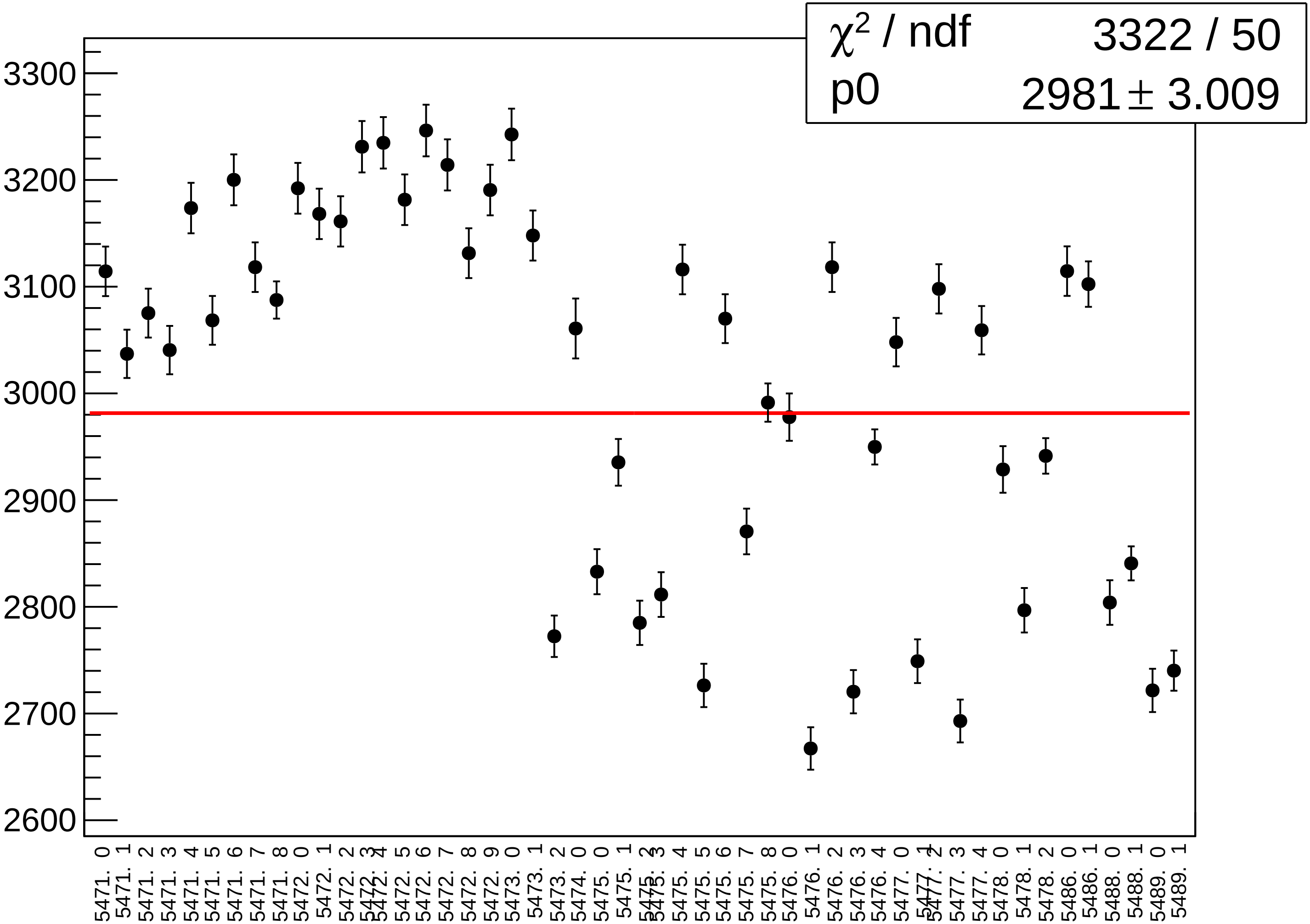


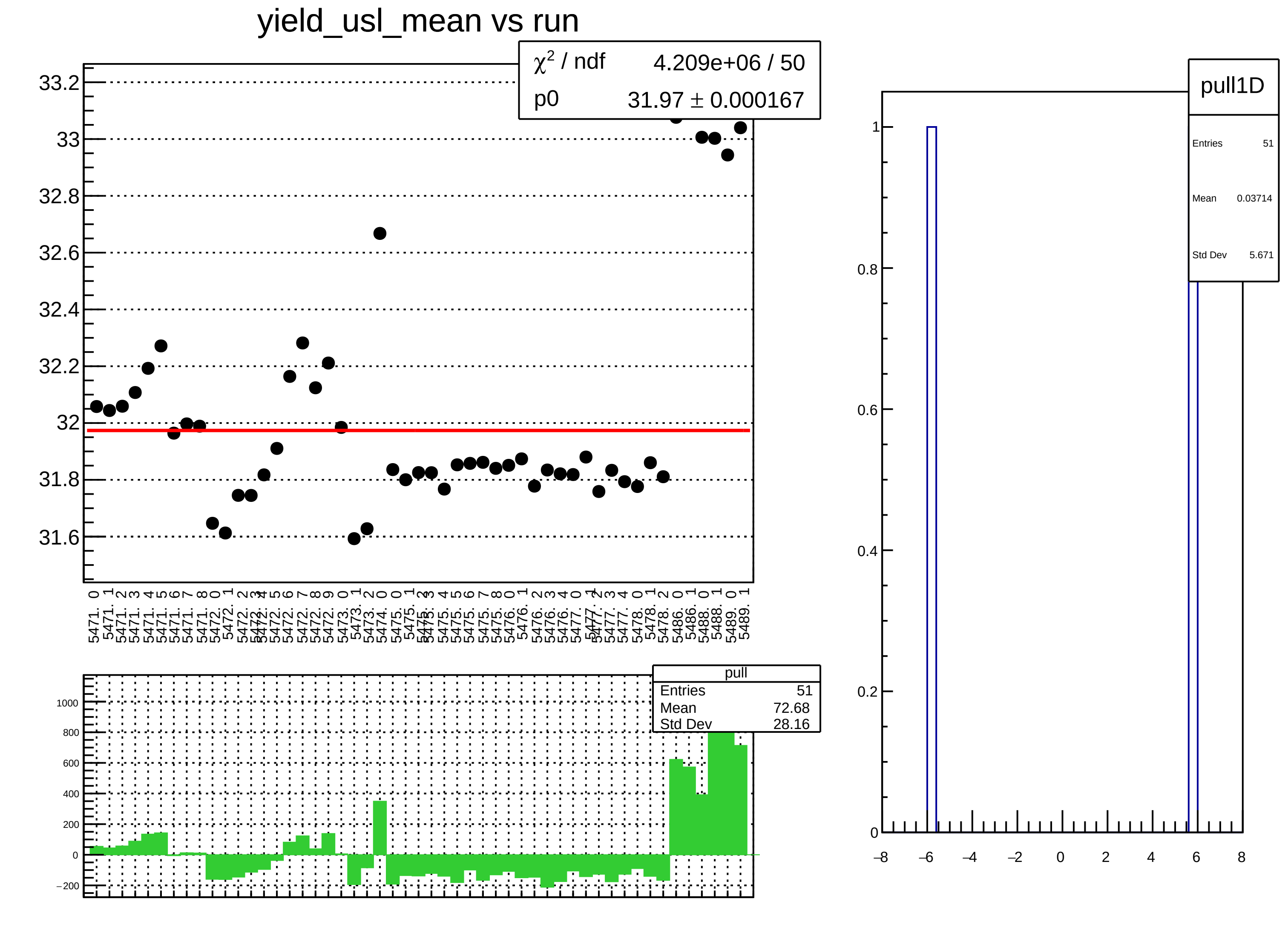
asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ^2 / ndf 3269 / 50
p0 2996 ± 3.024
3300
3200
3100
3000
2900
2800
2700
2600
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



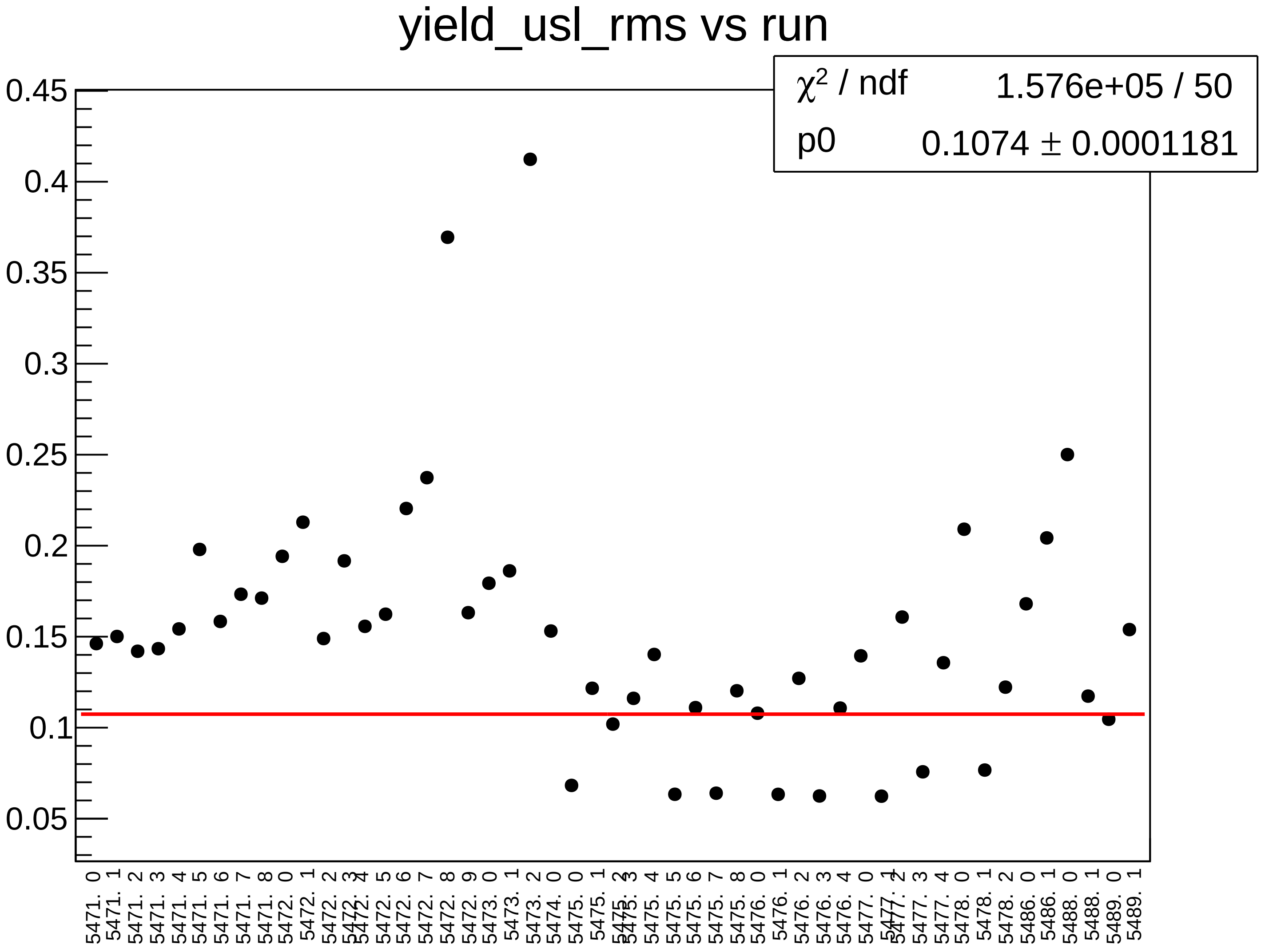
asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ^2 / ndf 62.55 / 50
p0 −1814 ± 4255
pull
Entries 51
Mean 27.33
Std Dev 32.54
pull1D
Entries 51
Mean −0.02235
Std Dev 1.107

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run

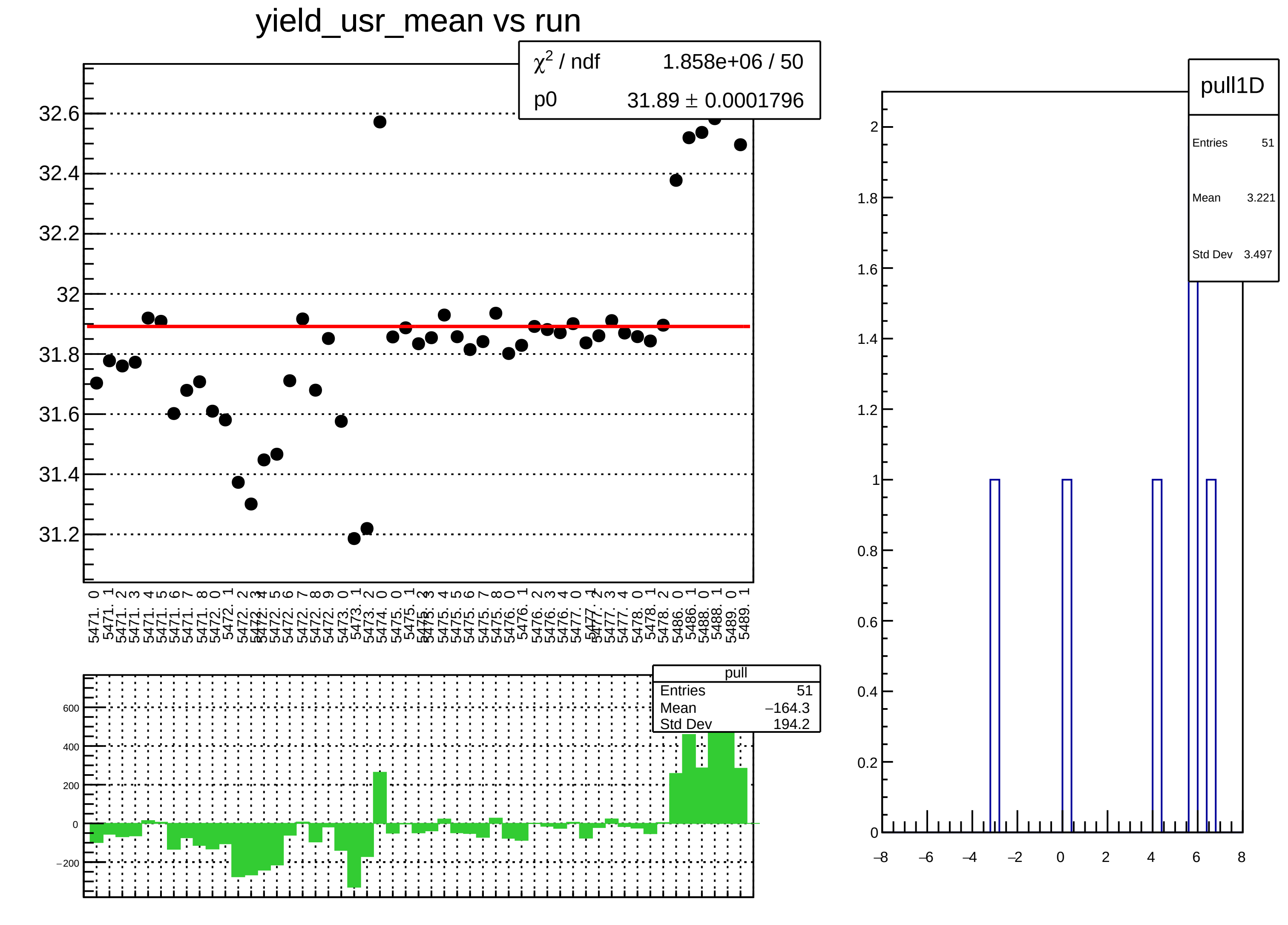




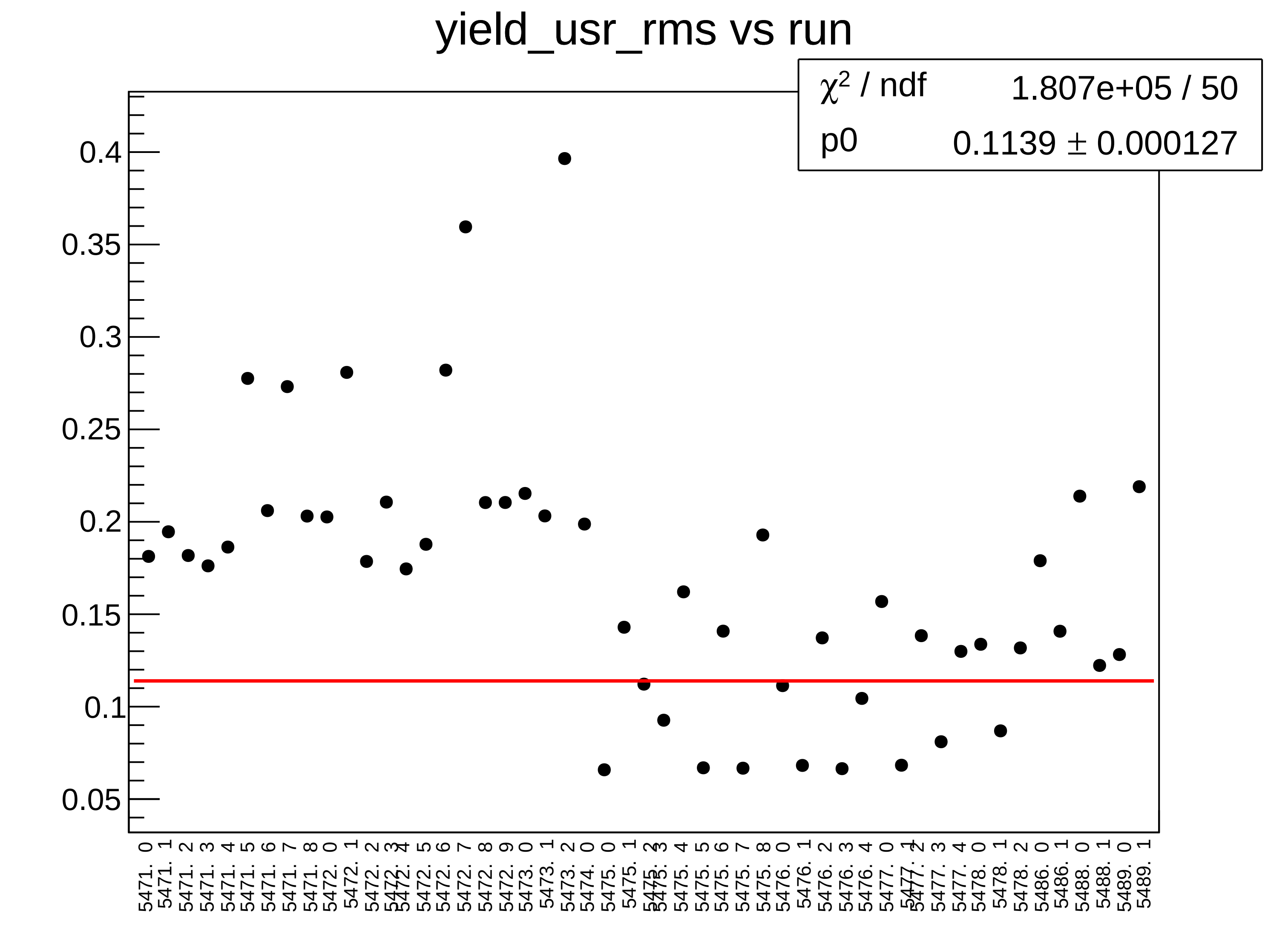
yield_usl_mean vs run
χ2 / ndf 4.209e+06 / 50
p0 31.97 ± 0.000167
pull
Entries 51
Mean 72.68
Std Dev 28.16
pull1D
Entries 51
Mean 0.03714
Std Dev 5.671



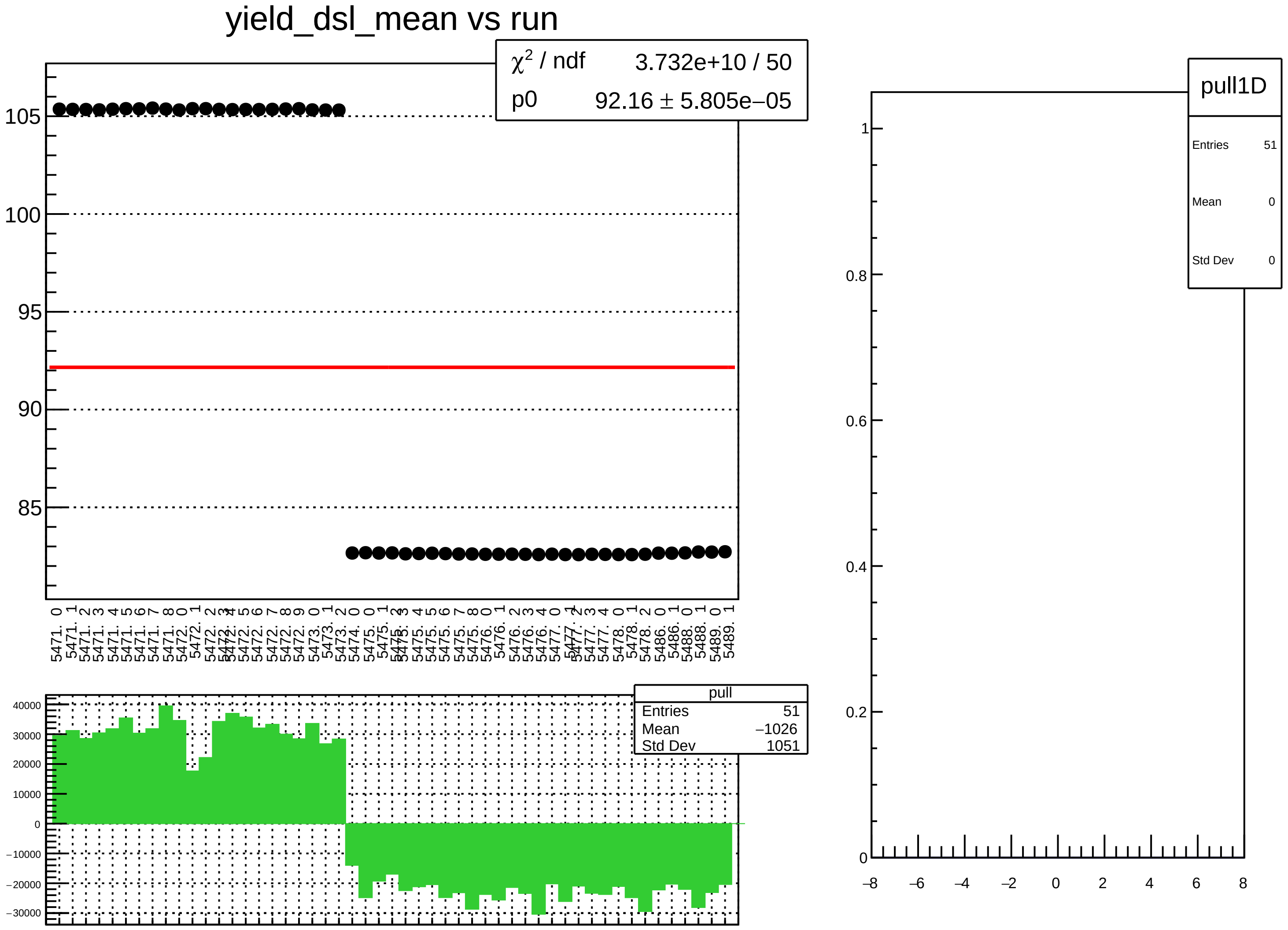
yield_usl_rms vs run
χ^2 / ndf 1.576e+05 / 50
p0 0.1074 ± 0.0001181
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05



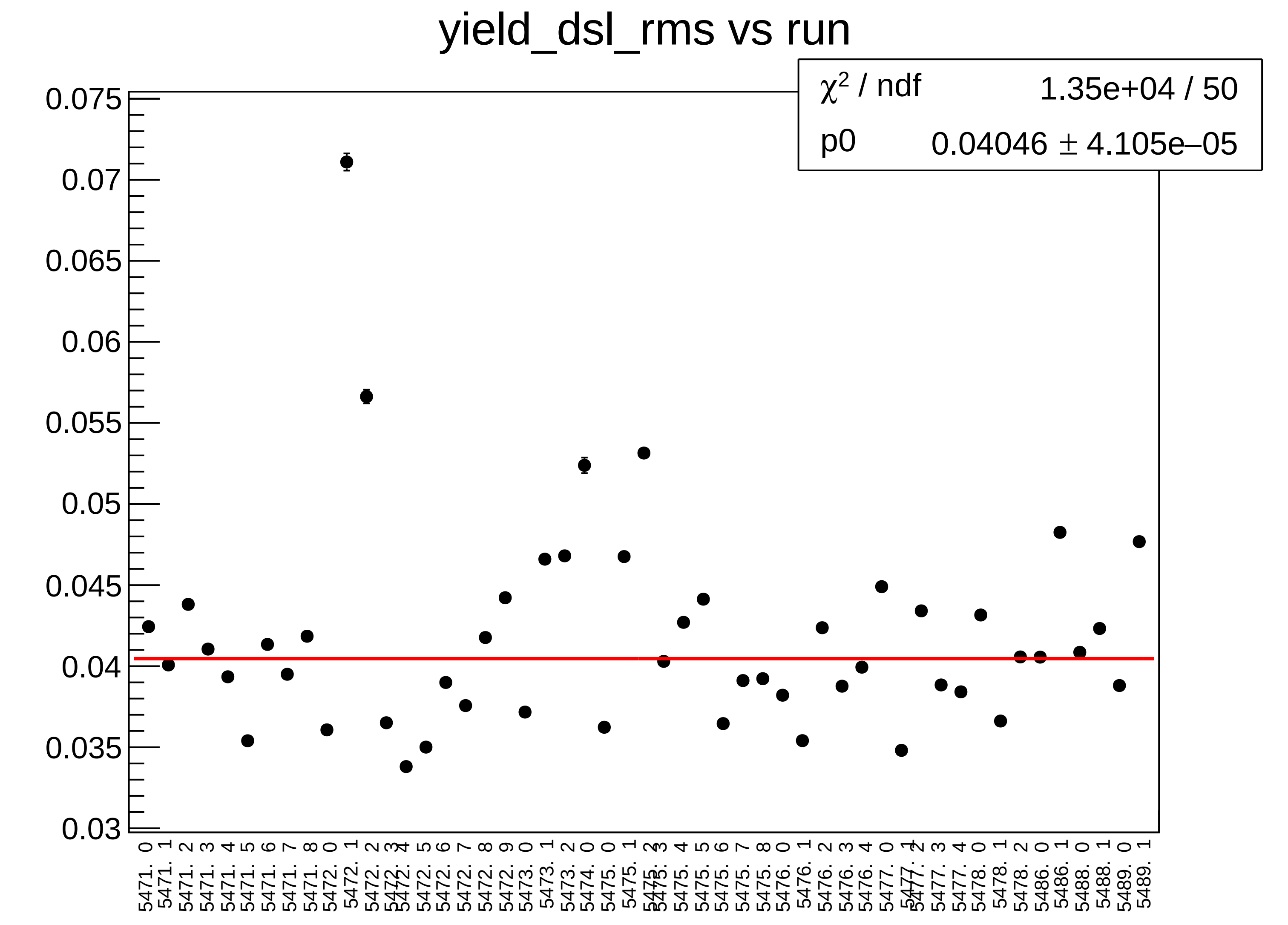
yield_usr_mean vs run
χ^2 / ndf 1.858e+06 / 50
p0 31.89 ± 0.0001796
pull
Entries 51
Mean −164.3
Std Dev 194.2
pull1D
Entries 51
Mean 3.221
Std Dev 3.497



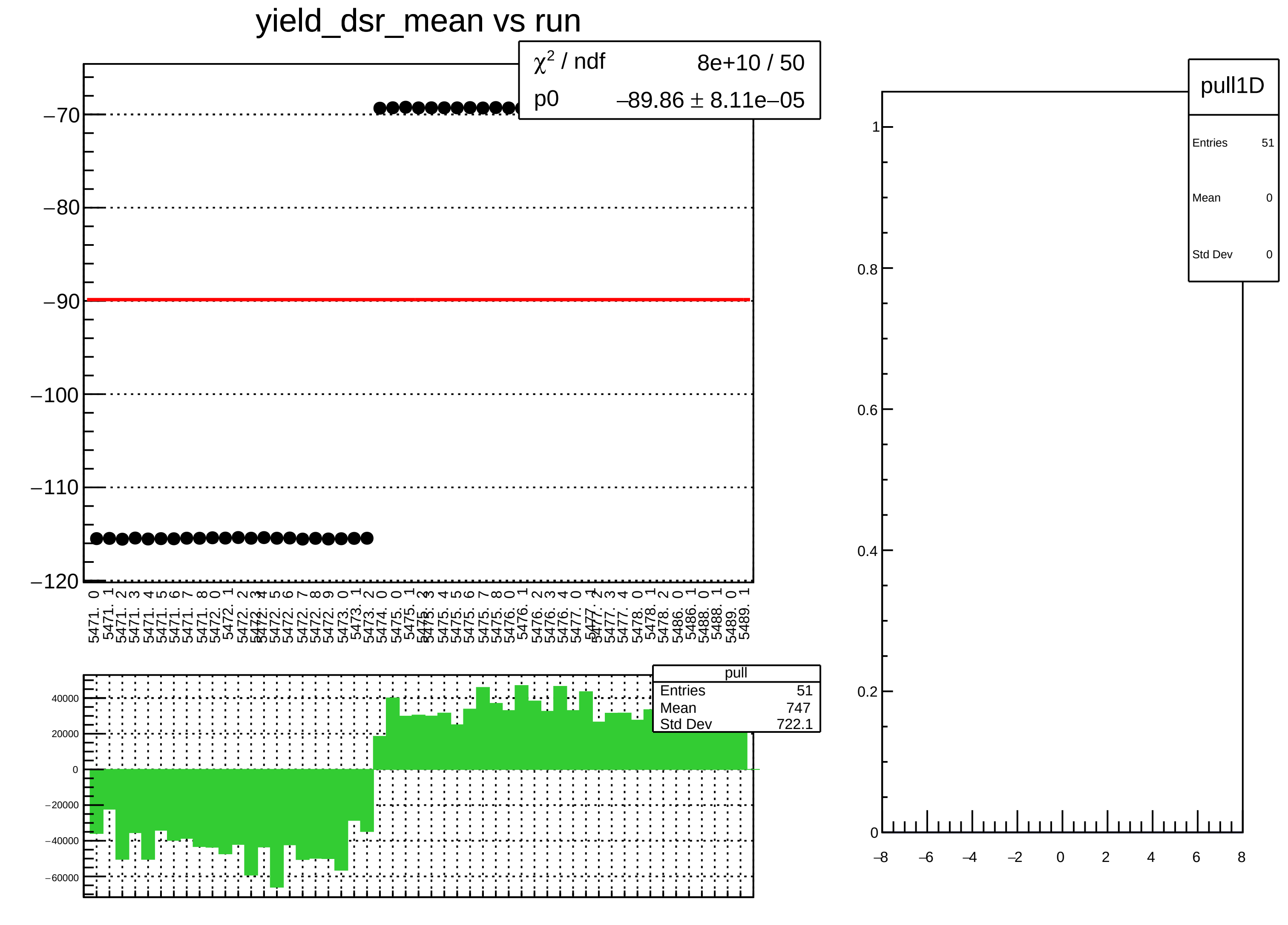
yield_usr_rms vs run
χ^2 / ndf 1.807e+05 / 50
p0 0.1139 ± 0.000127
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05



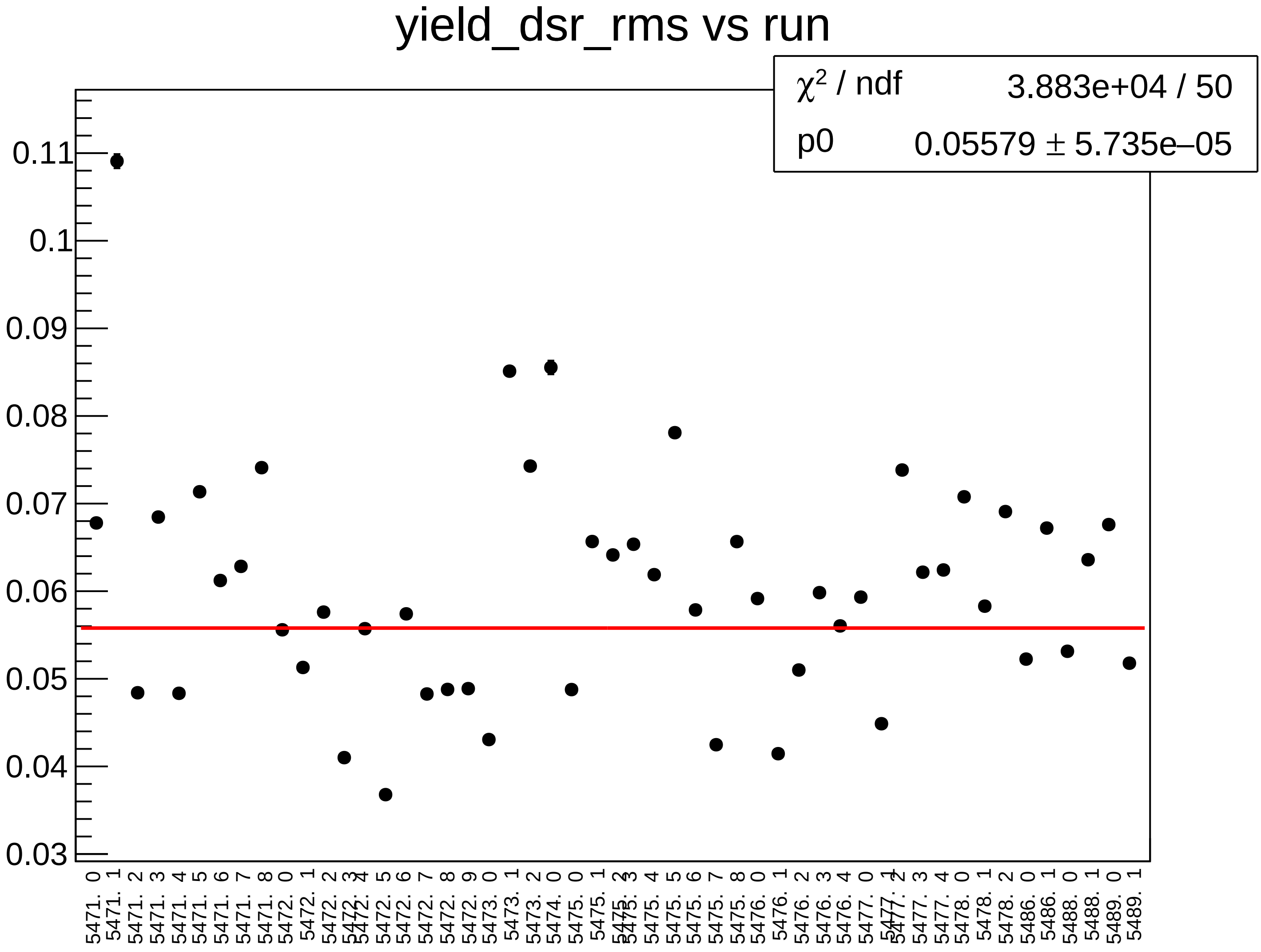
yield_dsl_mean vs run
χ^2 / ndf 3.732e+10 / 50
p0 92.16 ± 5.805e−05
pull
Entries 51
Mean −1026
Std Dev 1051
pull1D
Entries 51
Mean 0
Std Dev 0



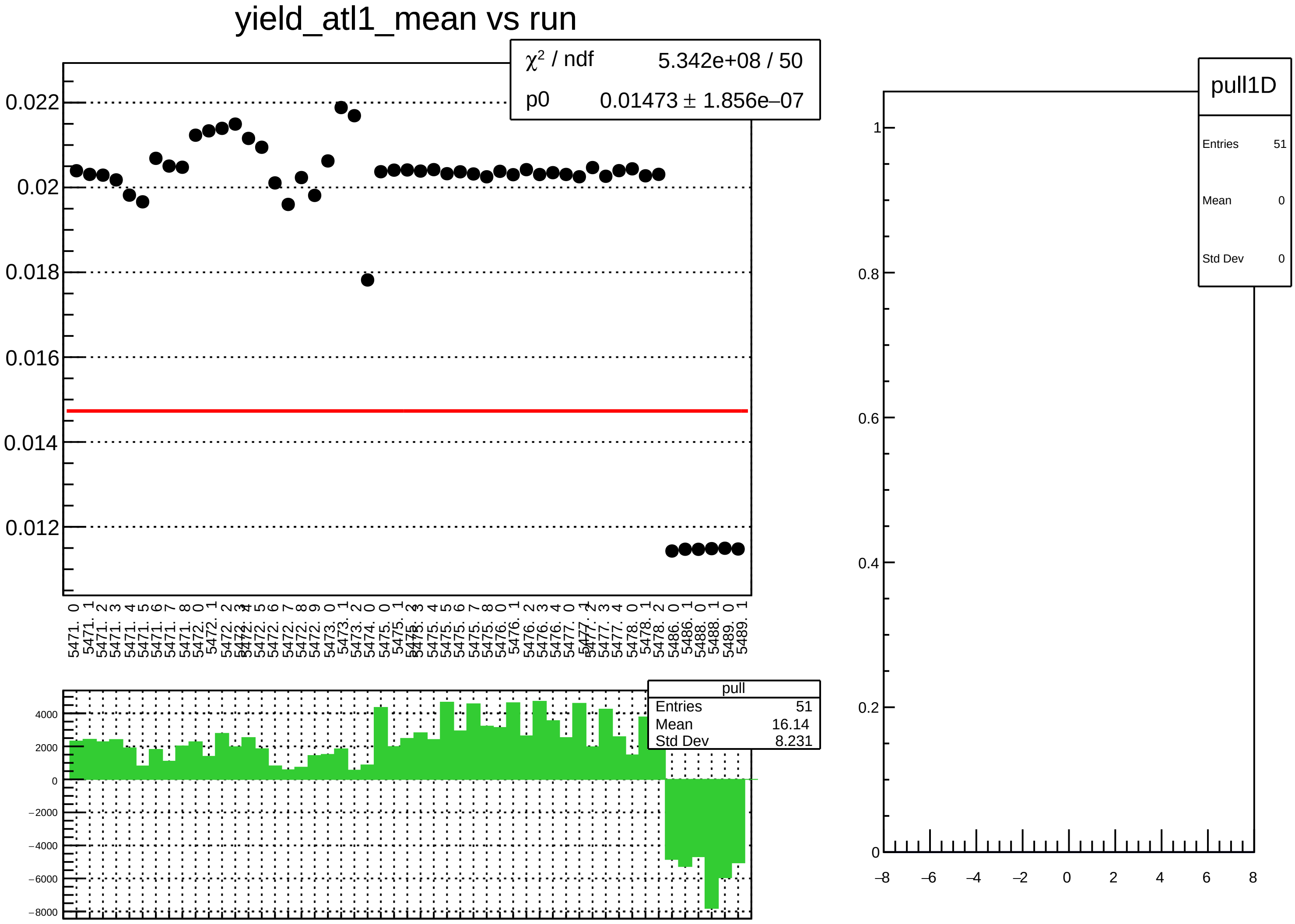
yield_dsl_rms vs run
χ^2 / ndf 1.35e+04 / 50
p0 0.04046 ± 4.105e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03



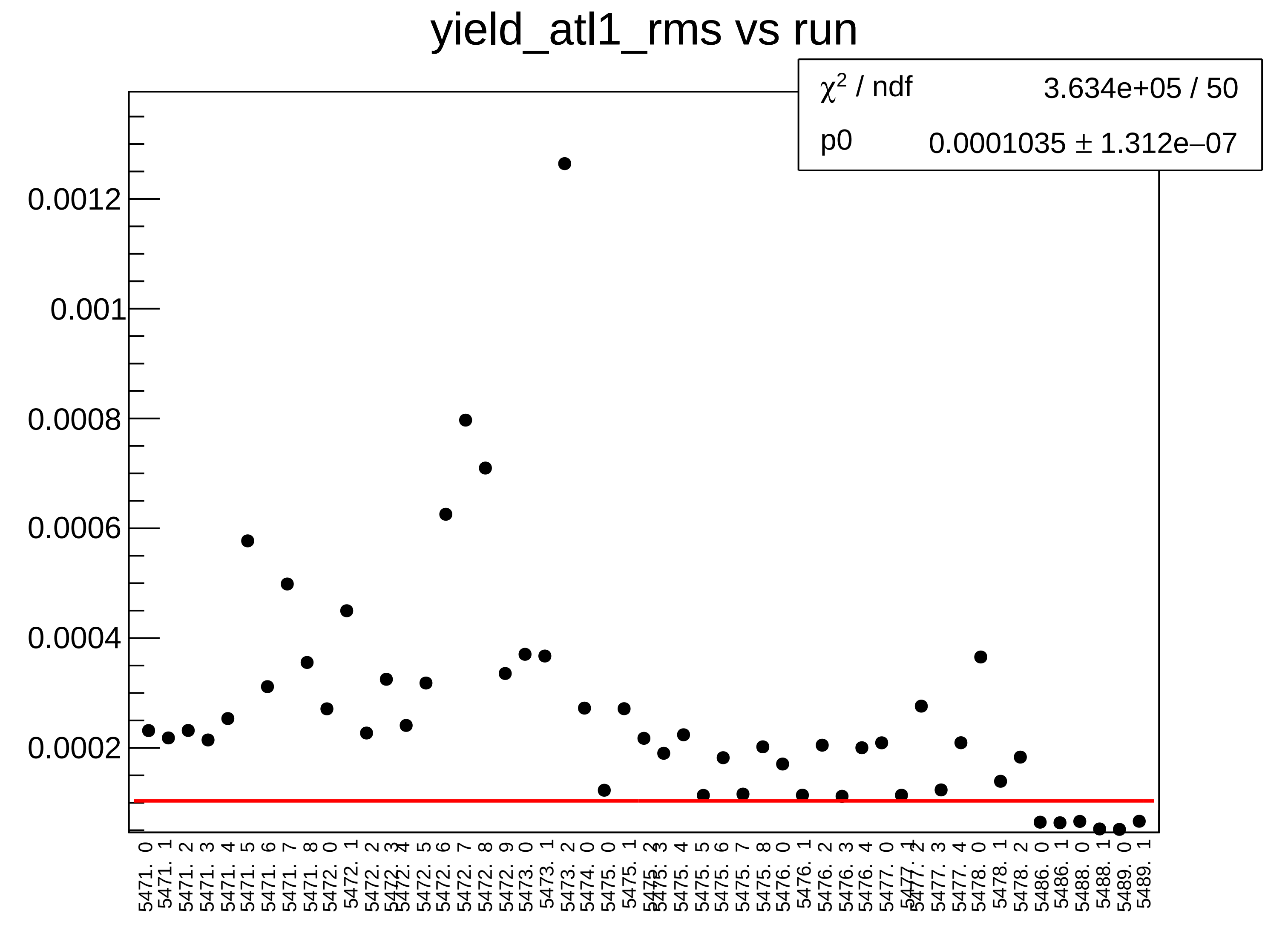
yield_dsr_mean vs run
χ^2 / ndf 8e+10 / 50
p0 −89.86 ± 8.11e−05
pull
Entries 51
Mean 747
Std Dev 722.1
pull1D
Entries 51
Mean 0
Std Dev 0

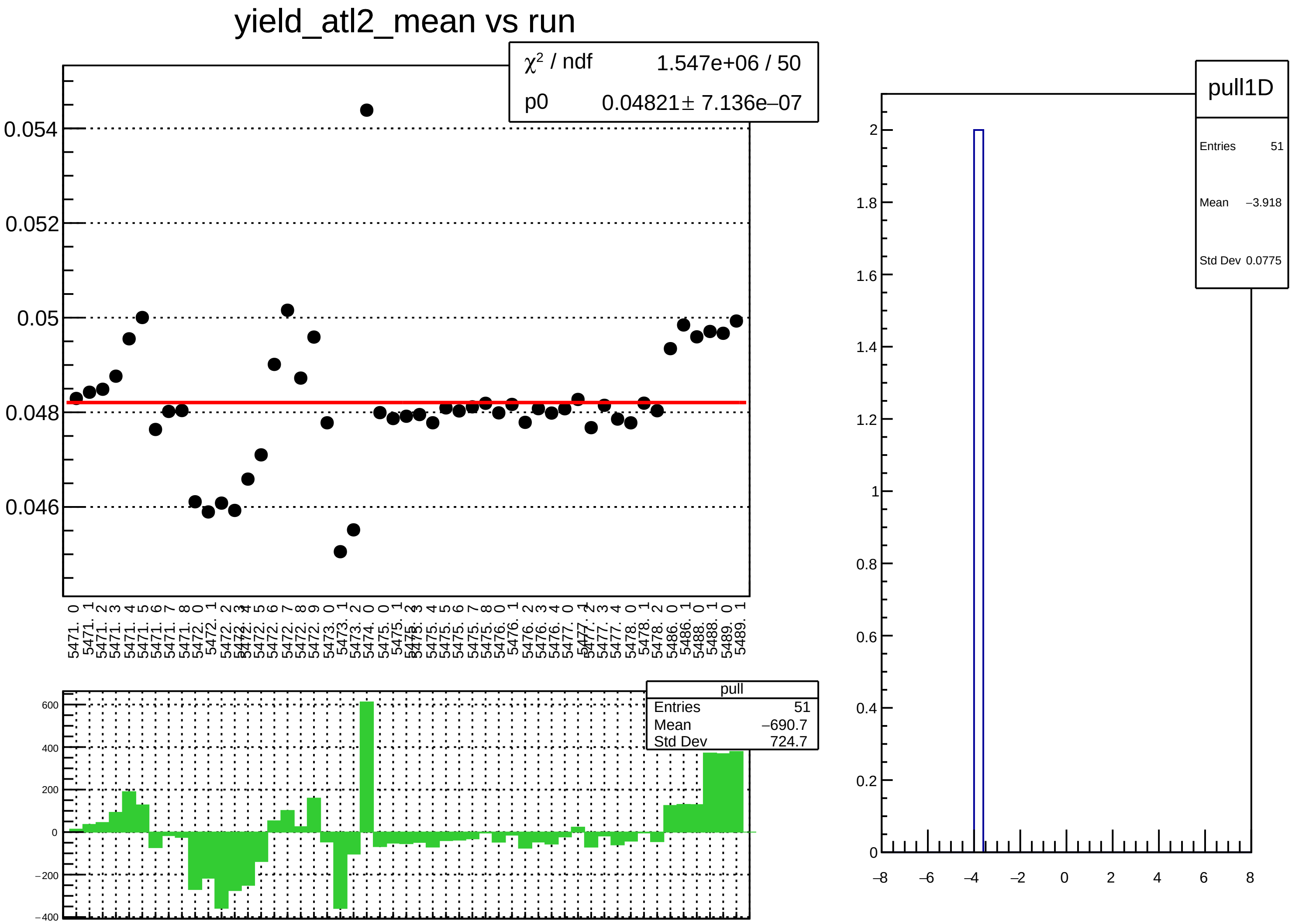


yield_dsr_rms vs run
χ^2 / ndf 3.883e+04 / 50
p0 0.05579 ± 5.735e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

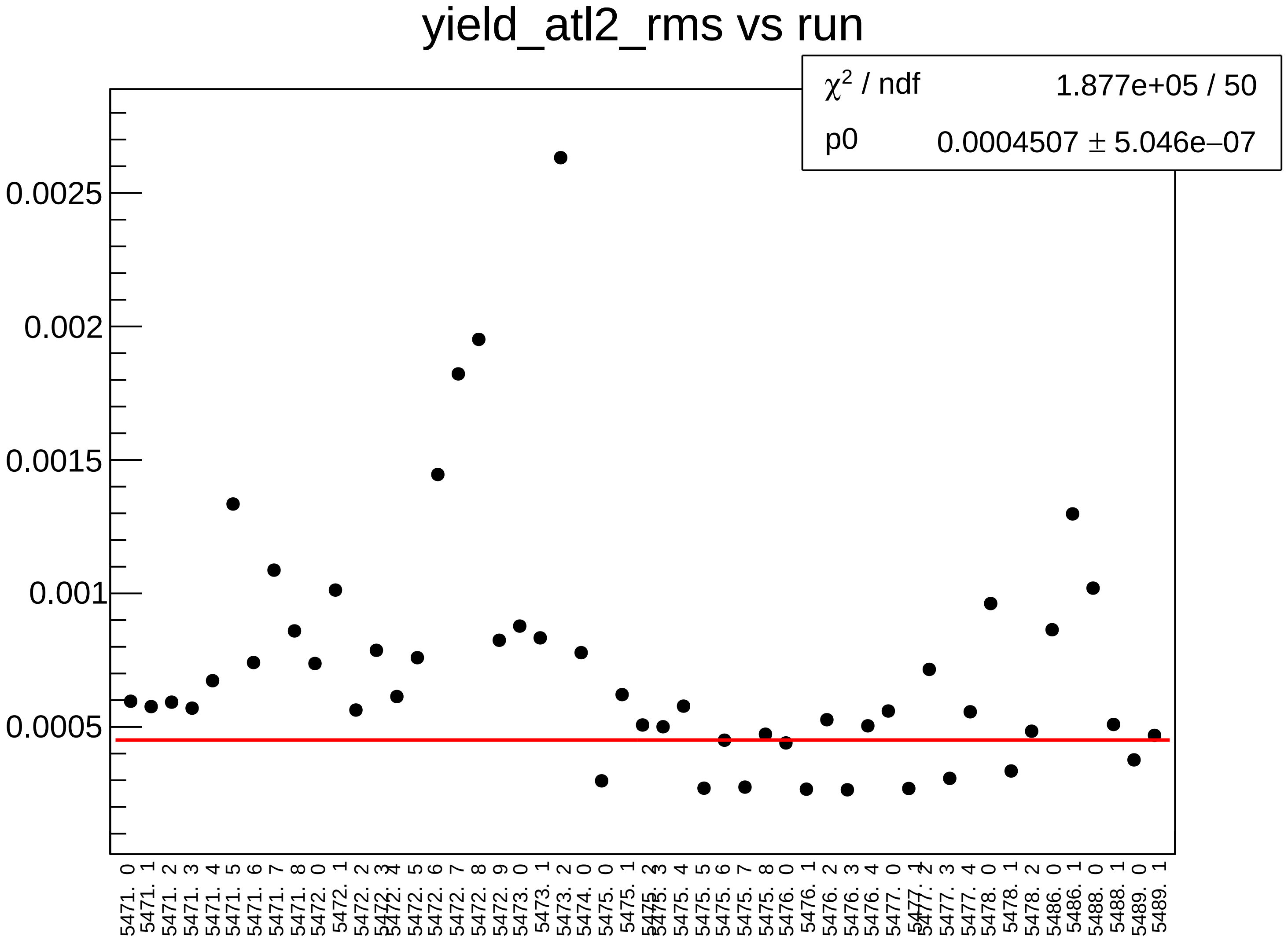


yield_atl1_mean vs run
χ² / ndf 5.342e+08 / 50
p0 0.01473 ± 1.856e−07
pull
Entries 51
Mean 16.14
Std Dev 8.231
pull1D
Entries 51
Mean 0
Std Dev 0

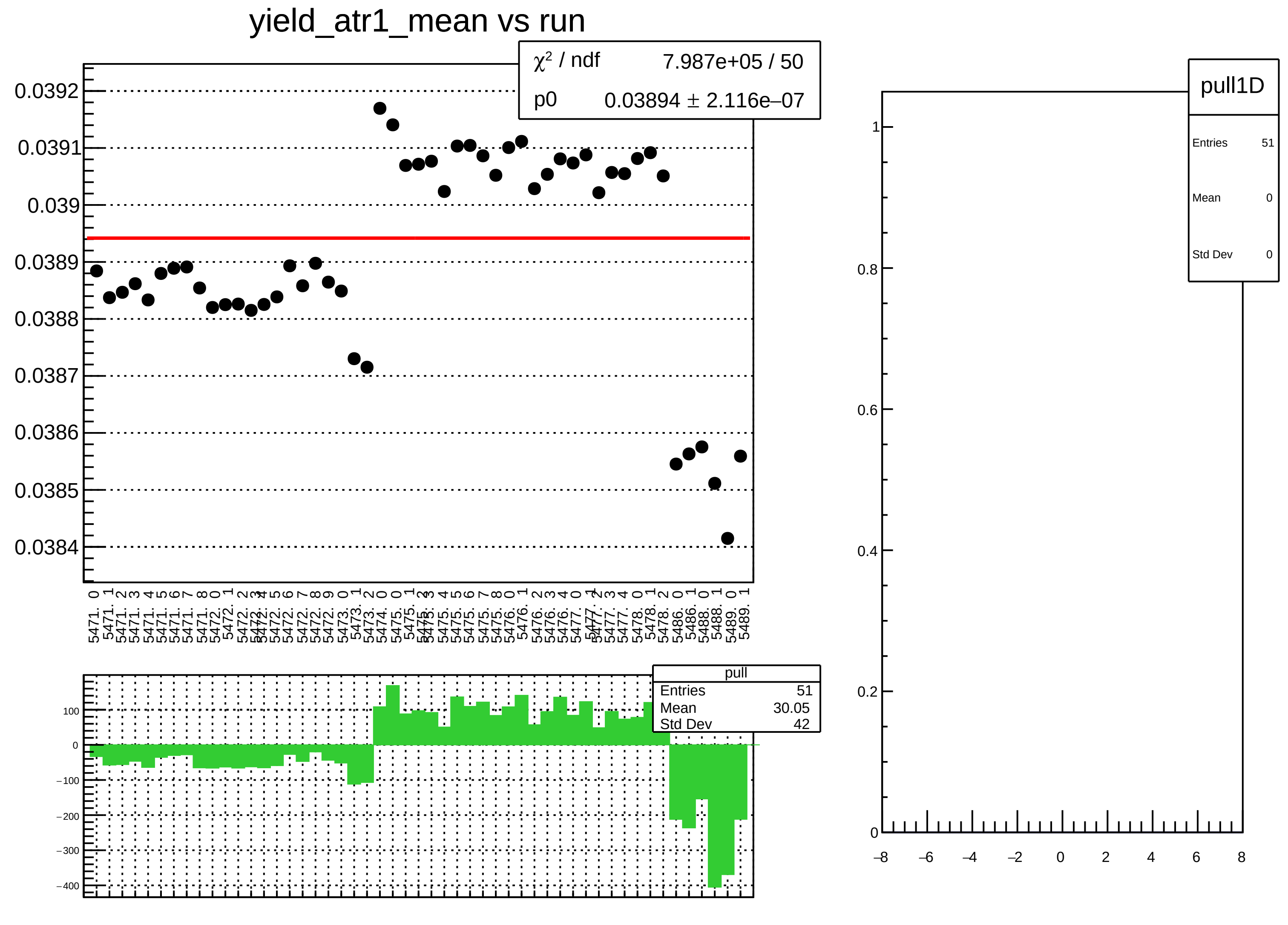

yield_atl1_rms vs run
χ2 / ndf 3.634e+05 / 50
p0 0.0001035 ± 1.312e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002



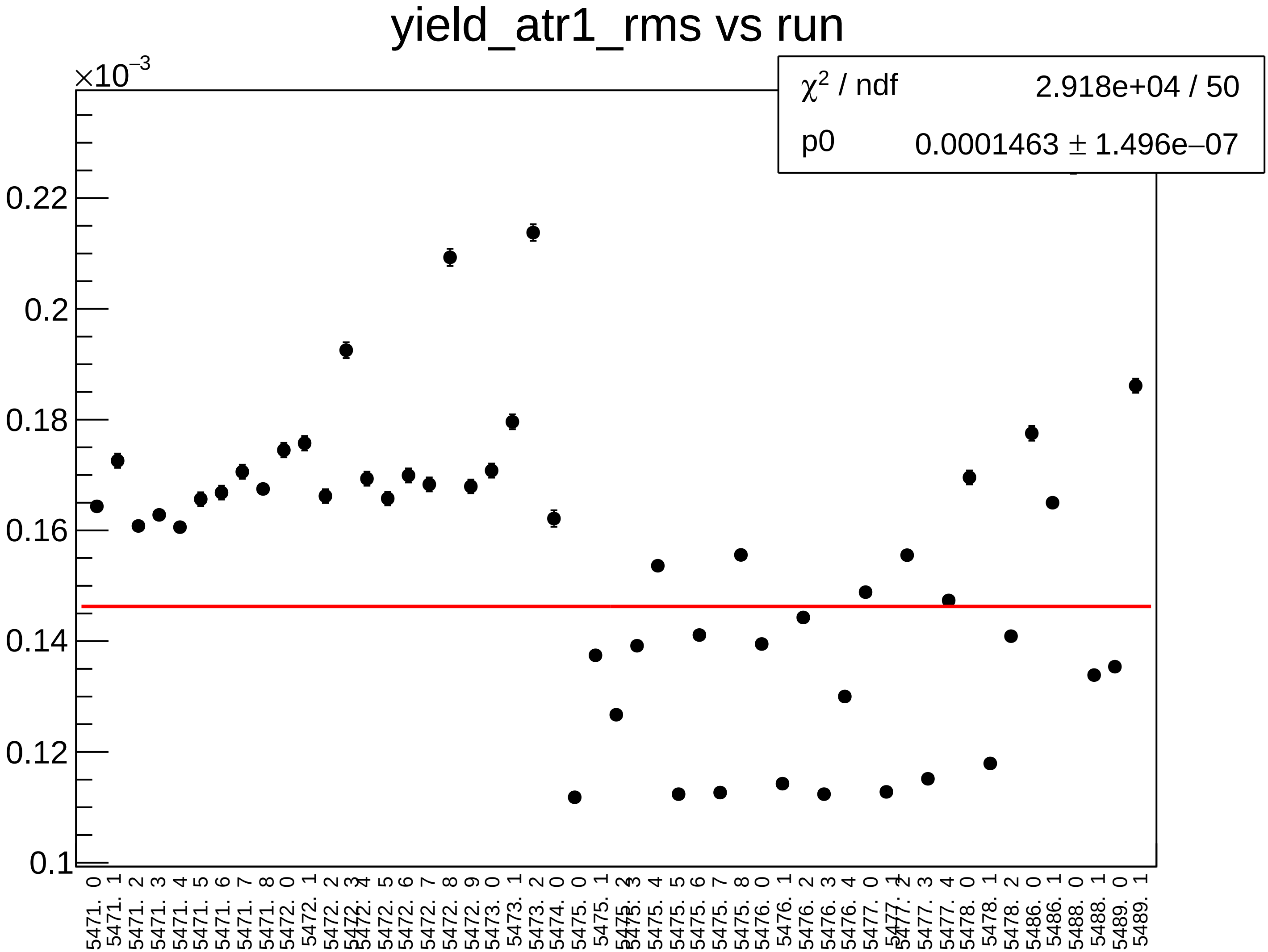
yield_atl2_mean vs run
χ2 / ndf 1.547e+06 / 50
p0 0.04821± 7.136e−07
0.054
0.052
0.05
0.048
0.046
pull
Entries 51
Mean −690.7
Std Dev 724.7
600
400
200
0
−200
−400
pull1D
Entries 51
Mean −3.918
Std Dev 0.0775
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



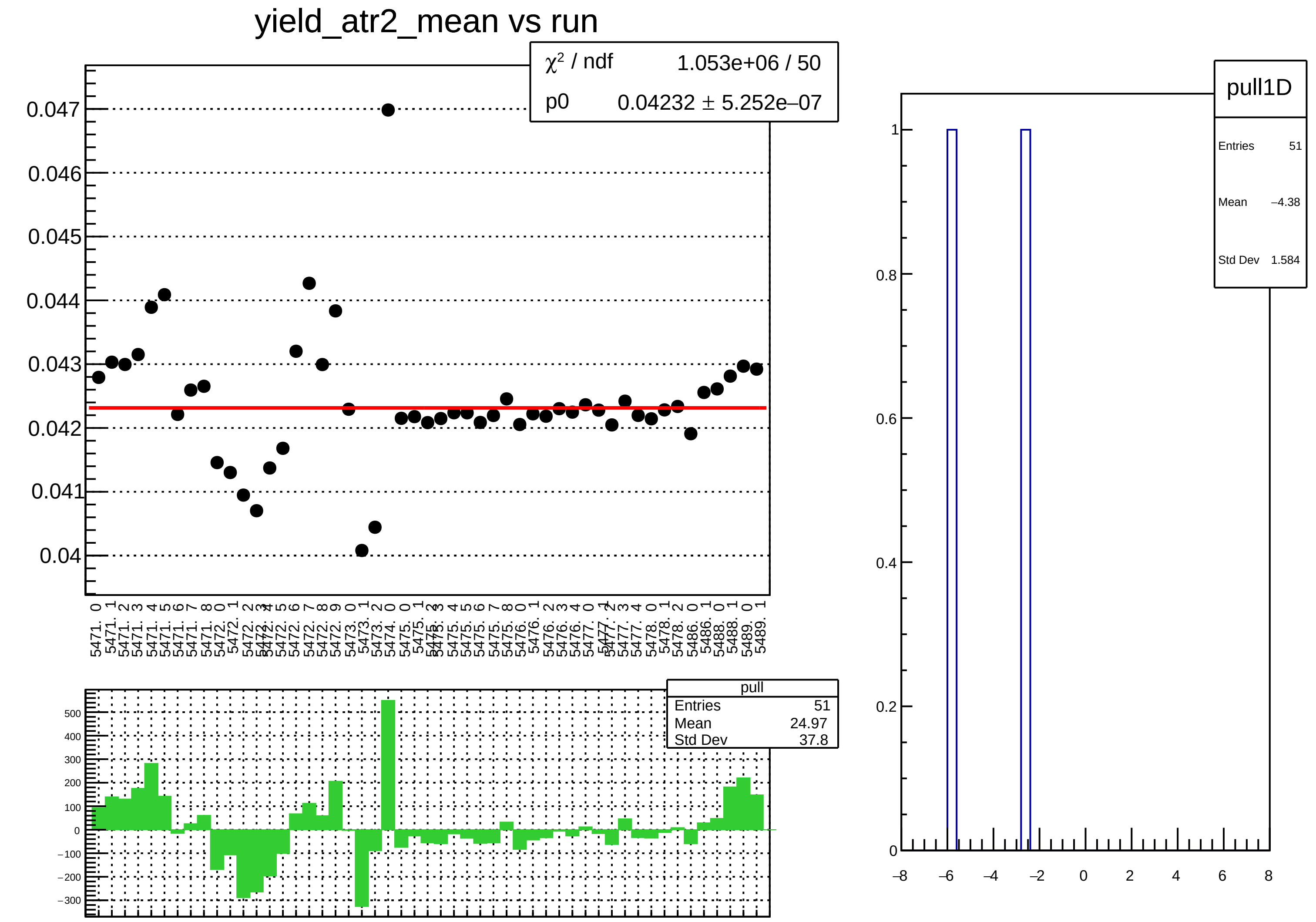
yield_atl2_rms vs run
χ^2 / ndf 1.877e+05 / 50
p0 0.0004507 ± 5.046e−07
0.0025
0.002
0.0015
0.001
0.0005



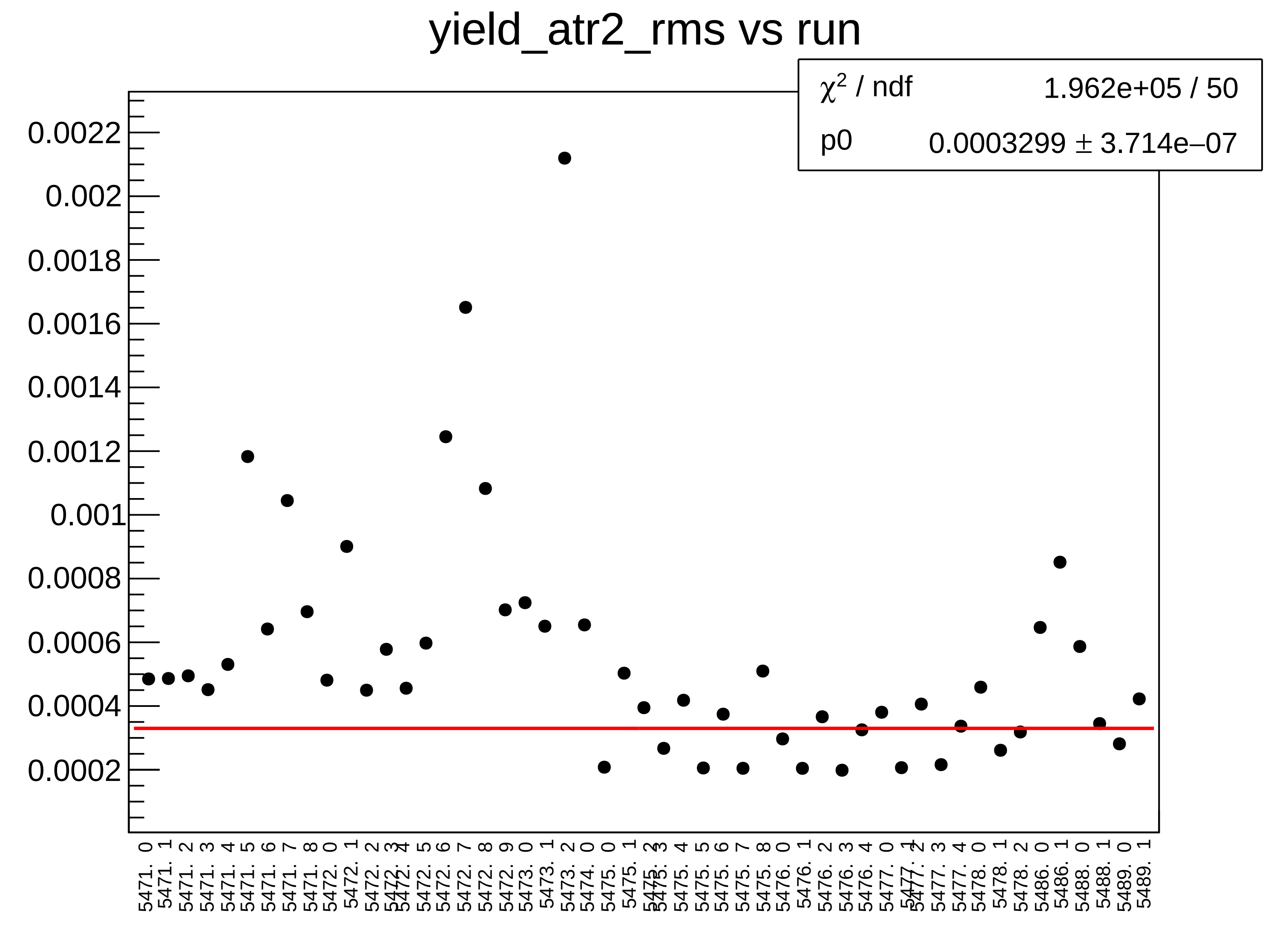
yield_atr1_mean vs run
χ2 / ndf 7.987e+05 / 50
p0 0.03894 ± 2.116e−07
pull
Entries 51
Mean 30.05
Std Dev 42
pull1D
Entries 51
Mean 0
Std Dev 0



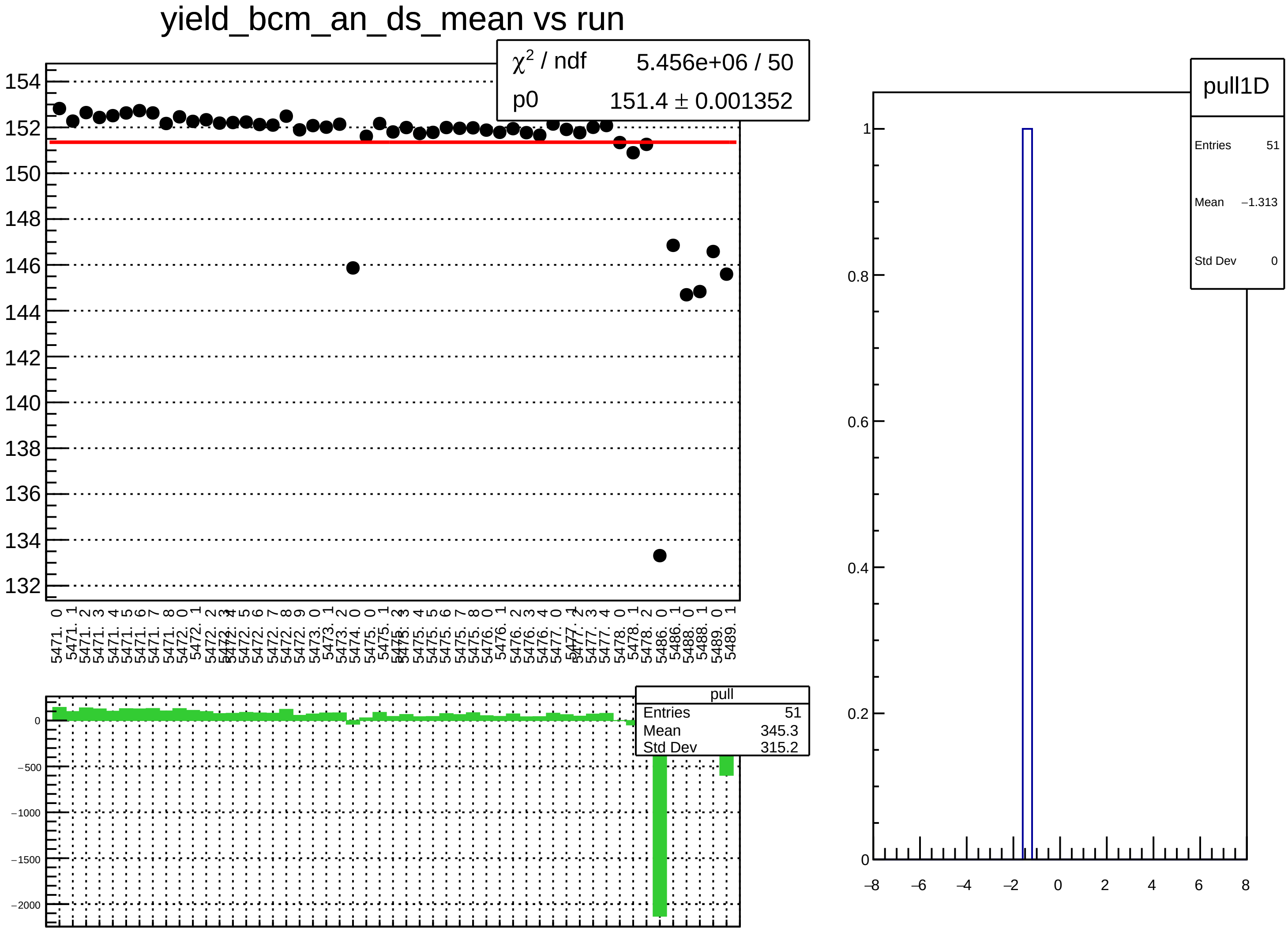
yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.918e+04 / 50
p0 0.0001463 ± 1.496e−07
0.22
0.2
0.18
0.16
0.14
0.12
0.1



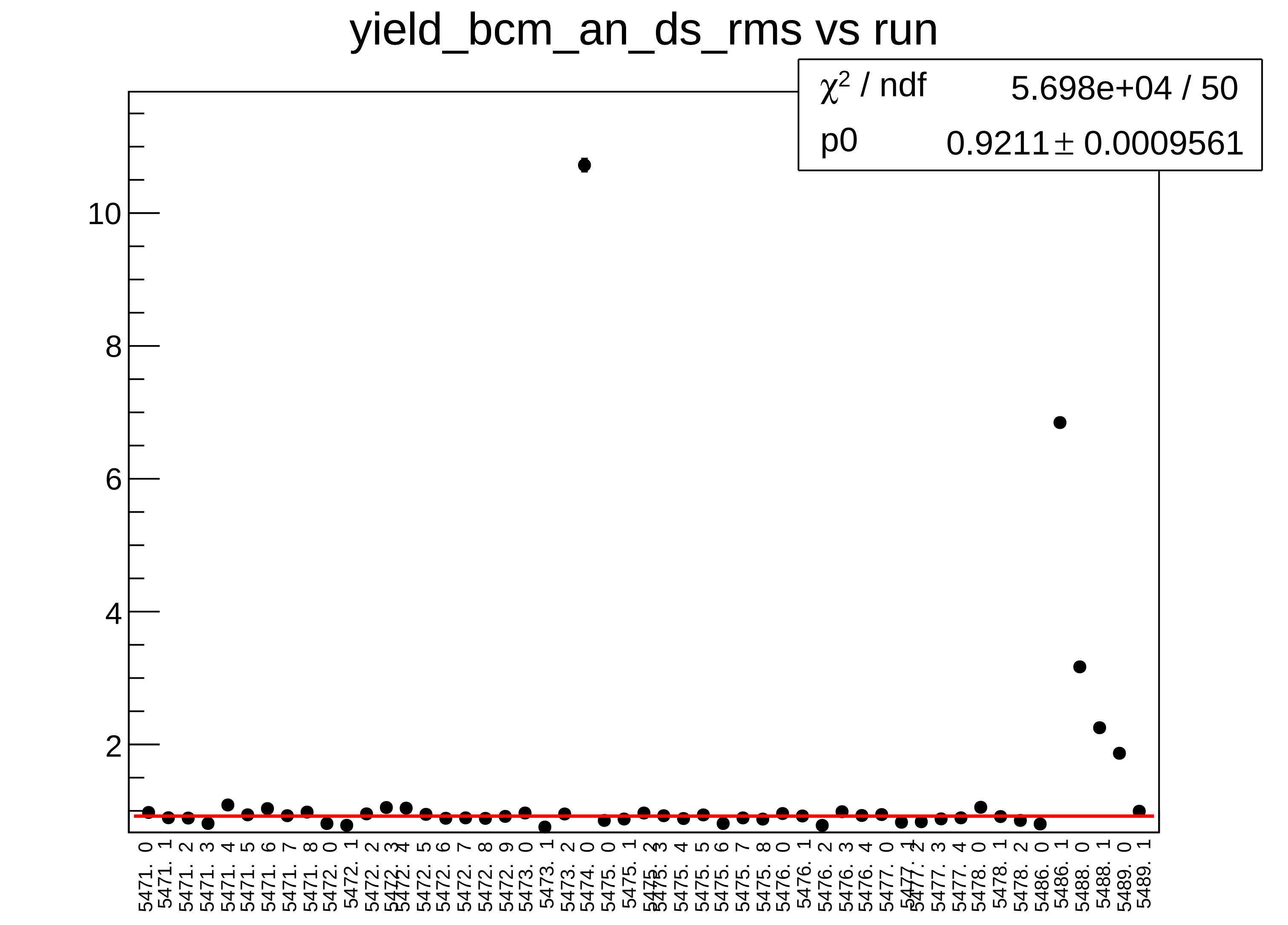
yield_atr2_mean vs run
χ^2 / ndf 1.053e+06 / 50
p0 0.04232 ± 5.252e−07
pull
Entries 51
Mean 24.97
Std Dev 37.8
pull1D
Entries 51
Mean −4.38
Std Dev 1.584



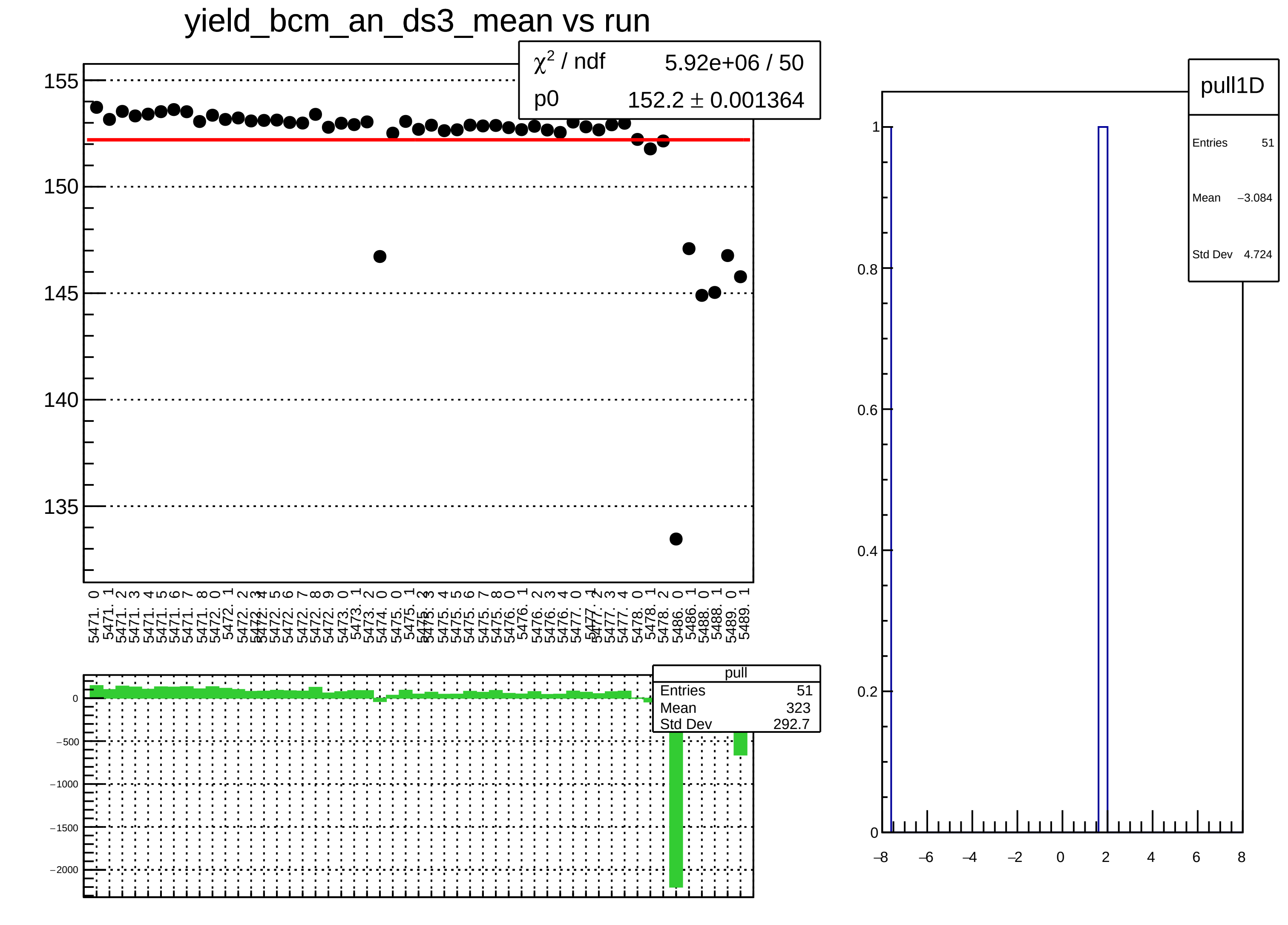
yield_atr2_rms vs run
χ^2 / ndf 1.962e+05 / 50
p0 0.0003299 ± 3.714e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002



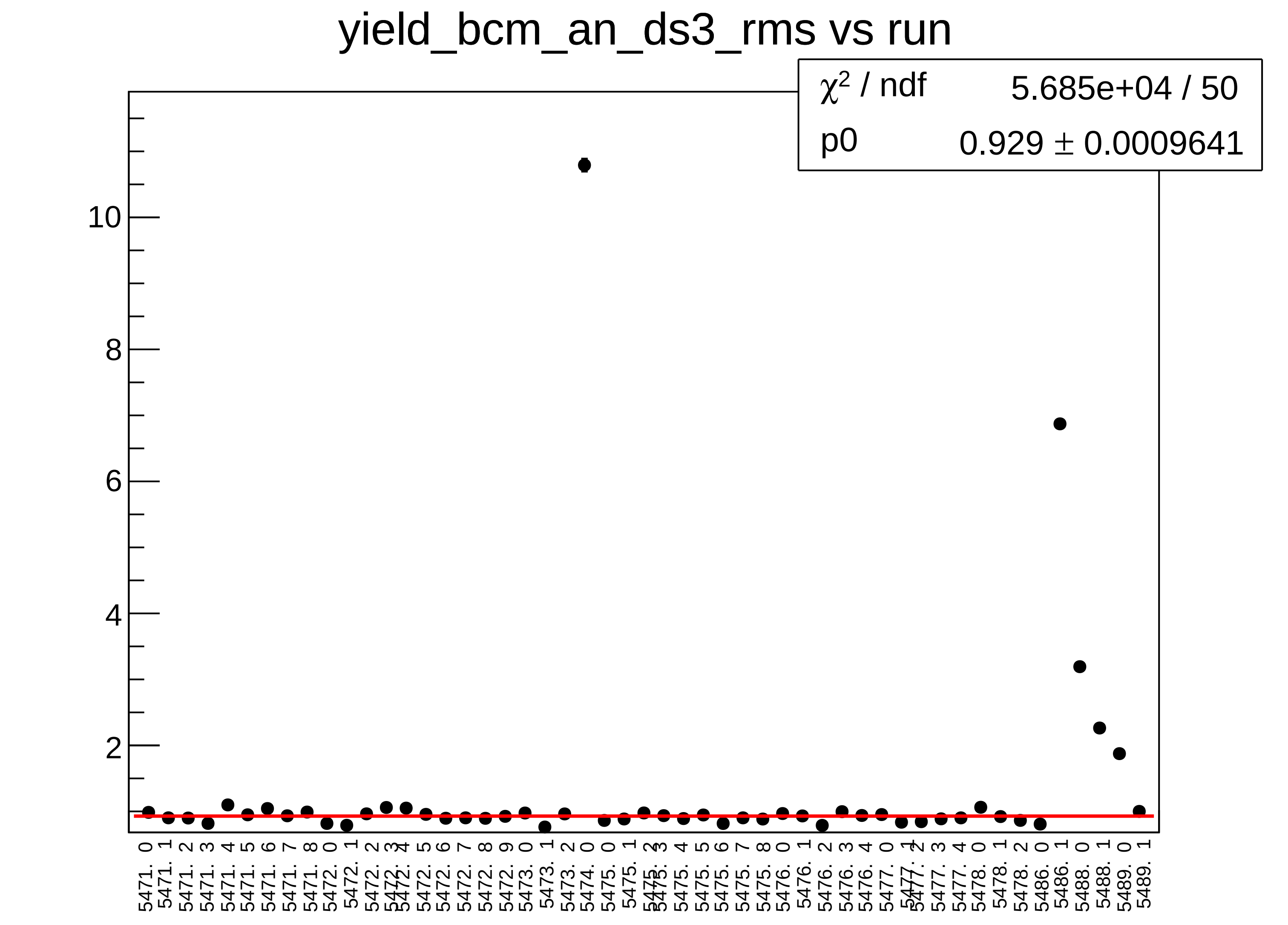
yield_bcm_an_ds_mean vs run
χ^2 / ndf 5.456e+06 / 50
p0 151.4 ± 0.001352
pull
Entries 51
Mean 345.3
Std Dev 315.2
pull1D
Entries 51
Mean −1.313
Std Dev 0



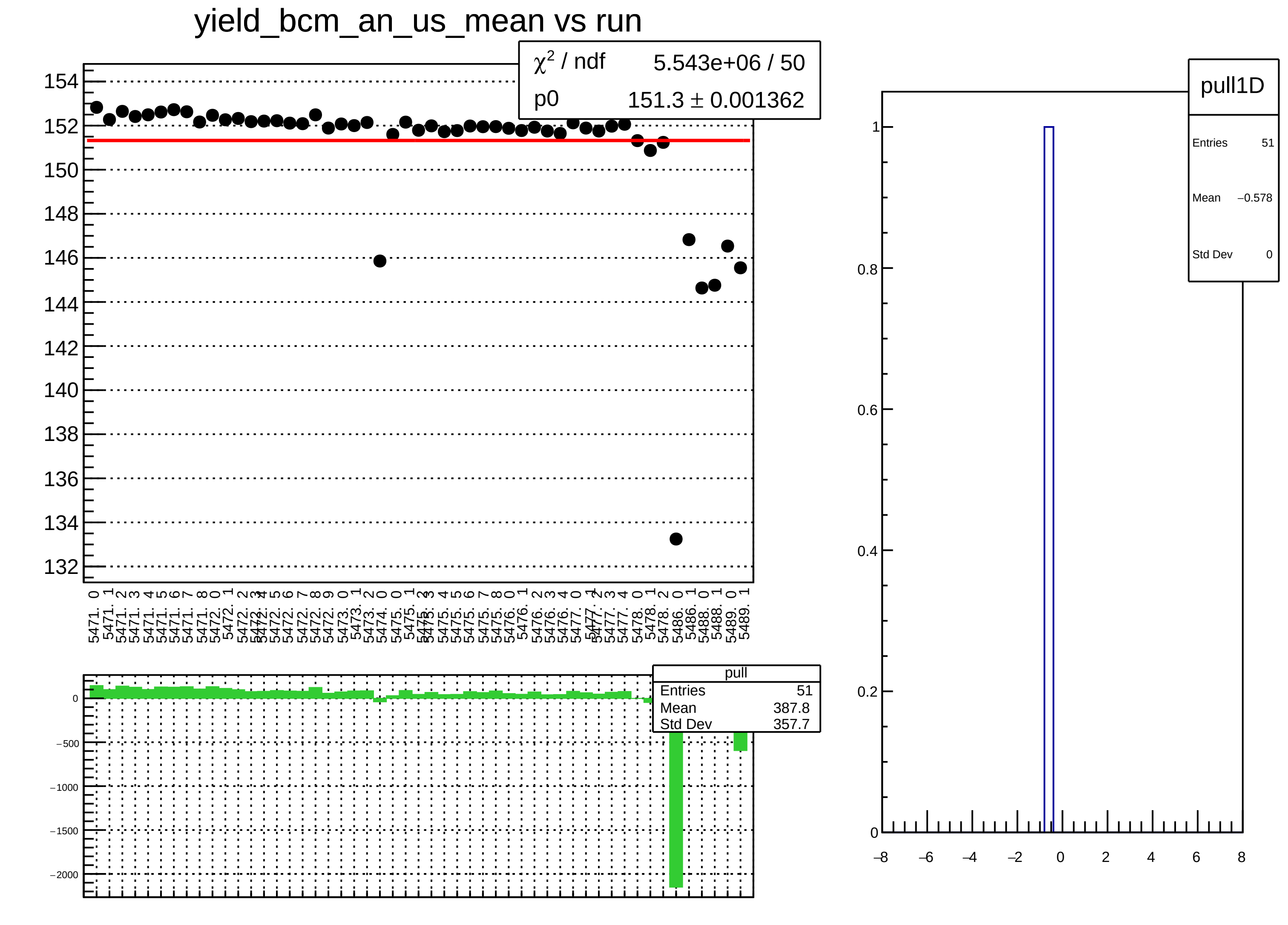
yield_bcm_an_ds_rms vs run
χ^2 / ndf 5.698e+04 / 50
p0 0.9211 ± 0.0009561
10
8
6
4
2



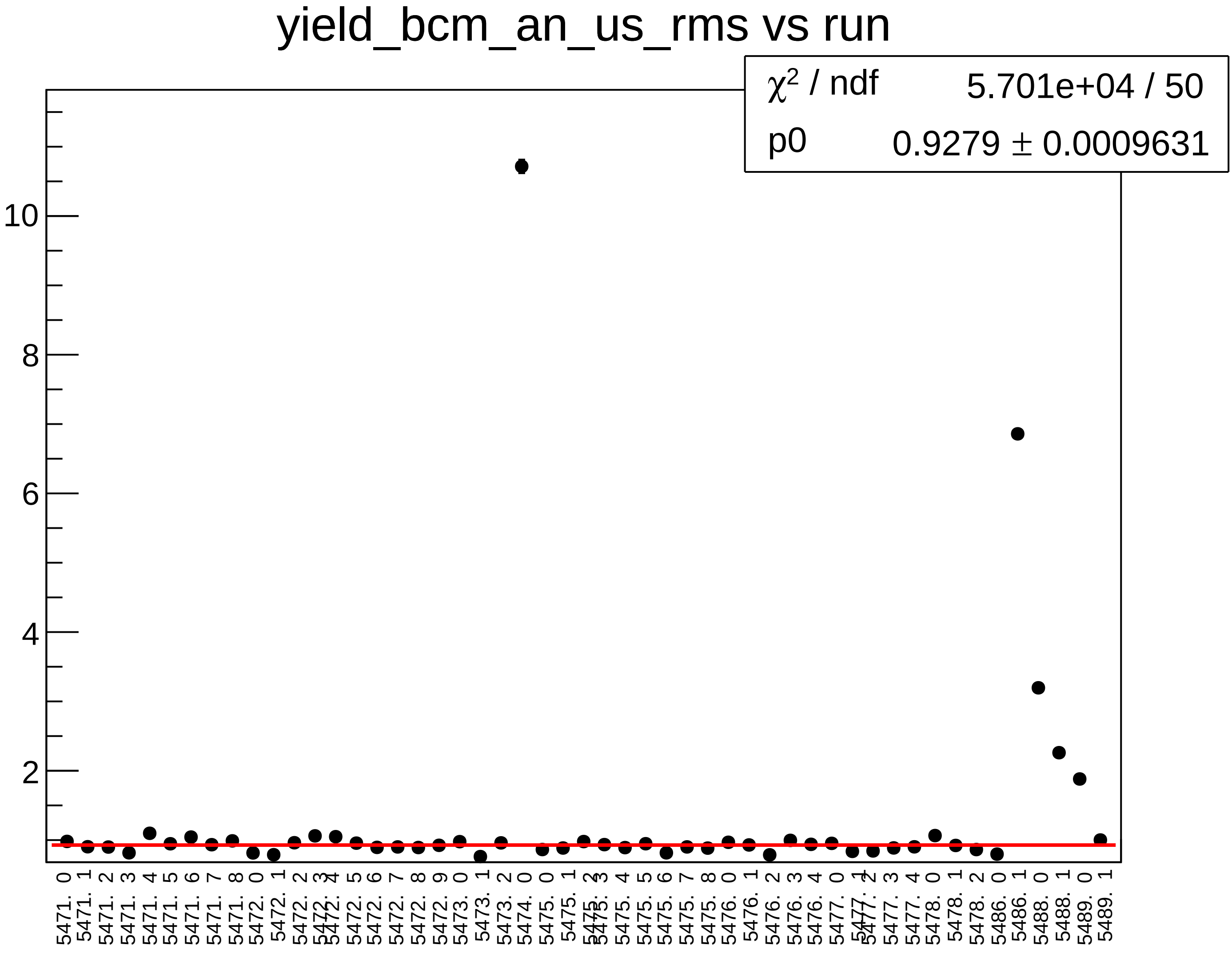
yield_bcm_an_ds3_mean vs run
χ^2 / ndf 5.92e+06 / 50
p0 152.2 ± 0.001364
155
150
145
140
135
pull
Entries 51
Mean 323
Std Dev 292.7
0
−500
−1000
−1500
−2000
pull1D
Entries 51
Mean −3.084
Std Dev 4.724
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



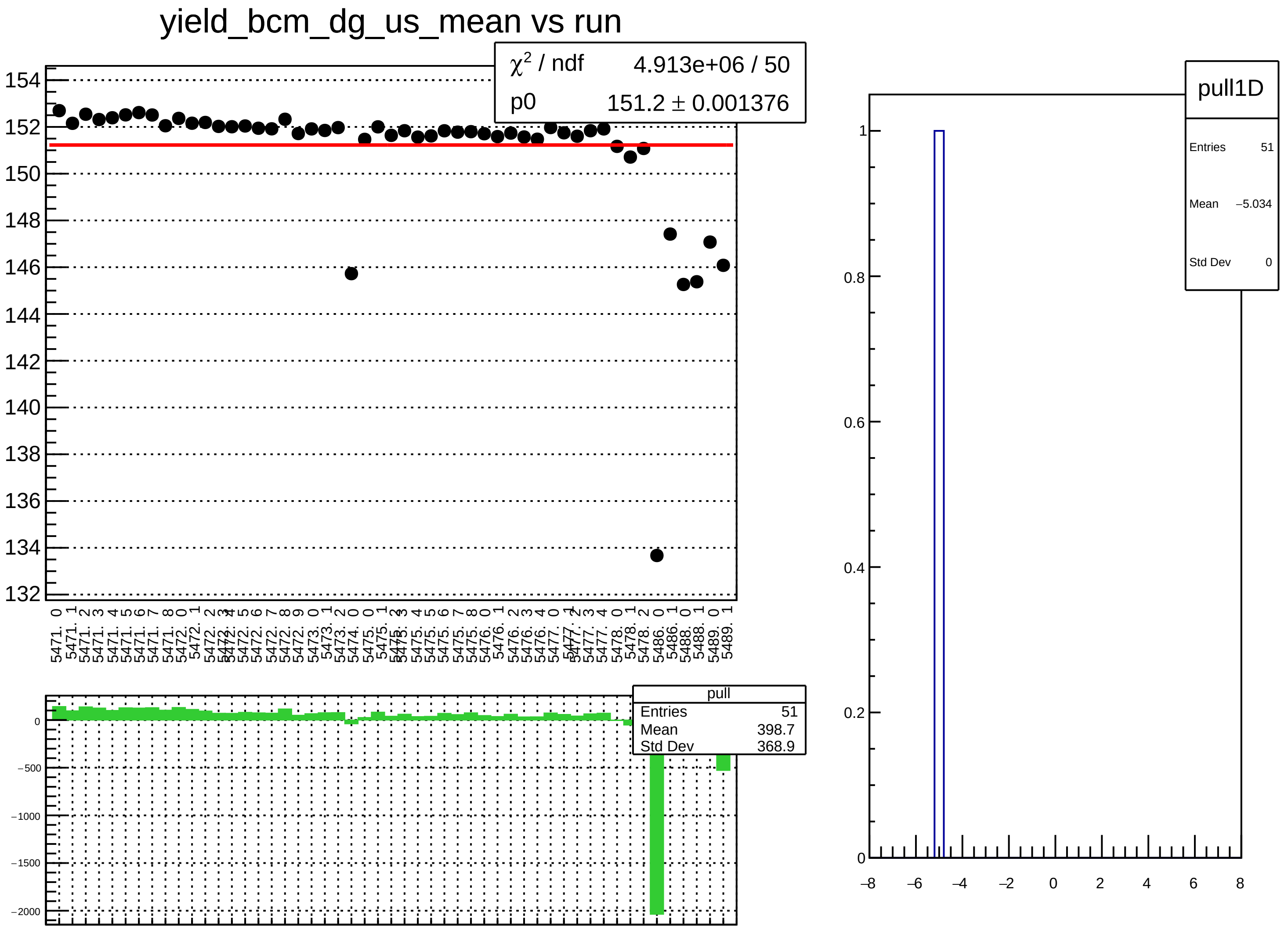
yield_bcm_an_ds3_rms vs run
χ^2 / ndf 5.685e+04 / 50
p0 0.929 ± 0.0009641
10
8
6
4
2



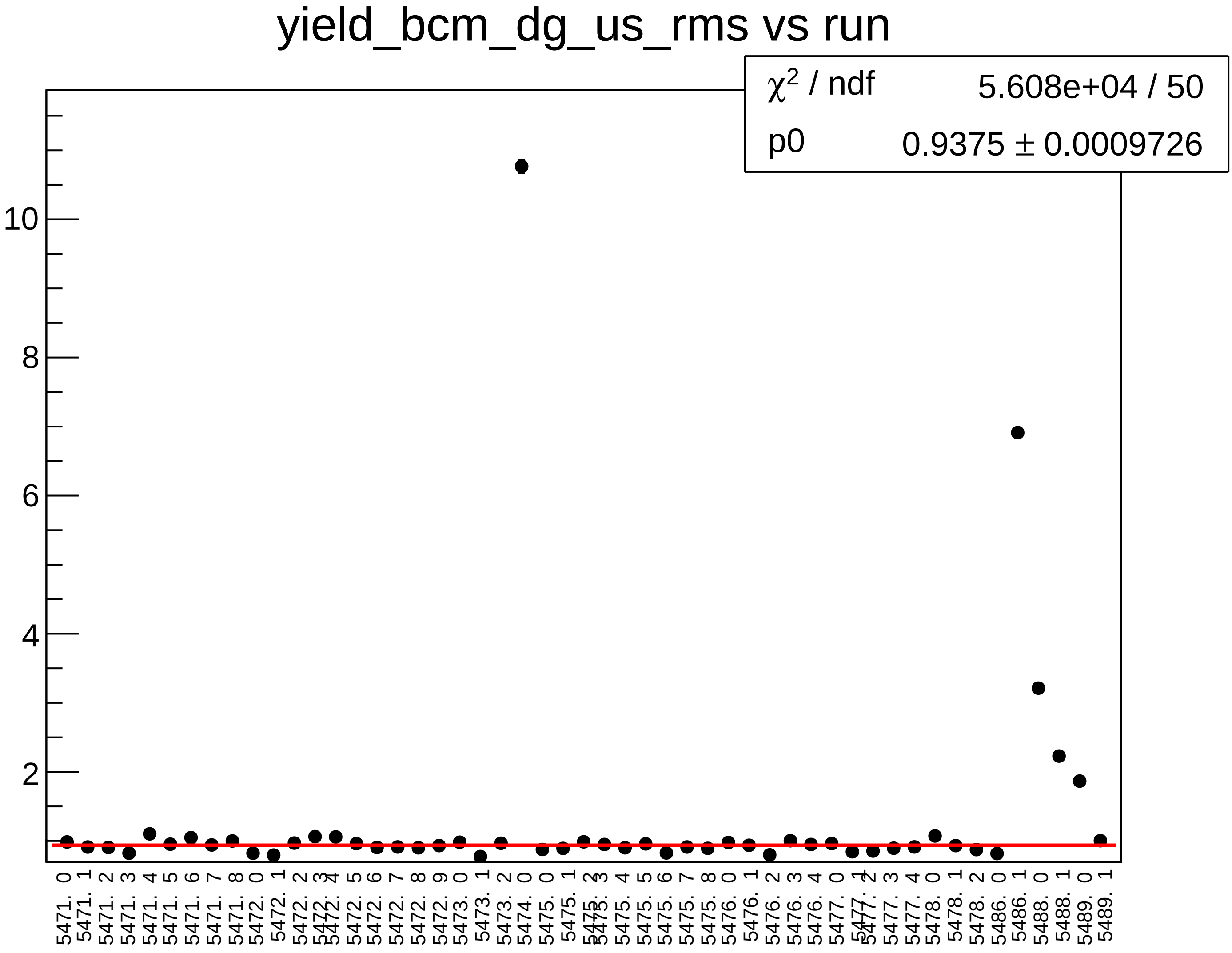
yield_bcm_an_us_mean vs run
χ^2 / ndf 5.543e+06 / 50
p0 151.3 ± 0.001362
pull
Entries 51
Mean 387.8
Std Dev 357.7
pull1D
Entries 51
Mean −0.578
Std Dev 0



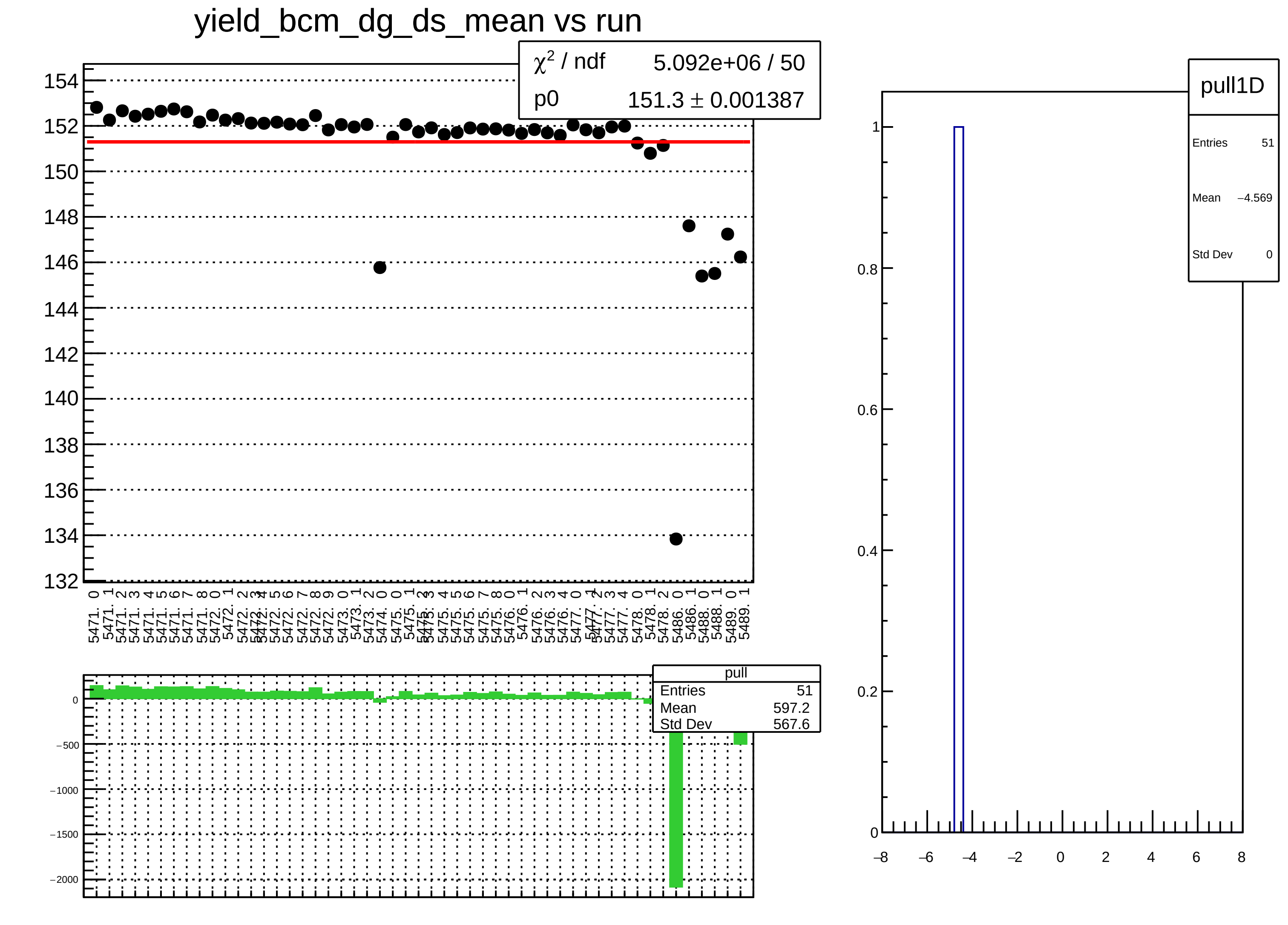
yield_bcm_an_us_rms vs run
χ^2 / ndf 5.701e+04 / 50
p0 0.9279 ± 0.0009631
10
8
6
4
2



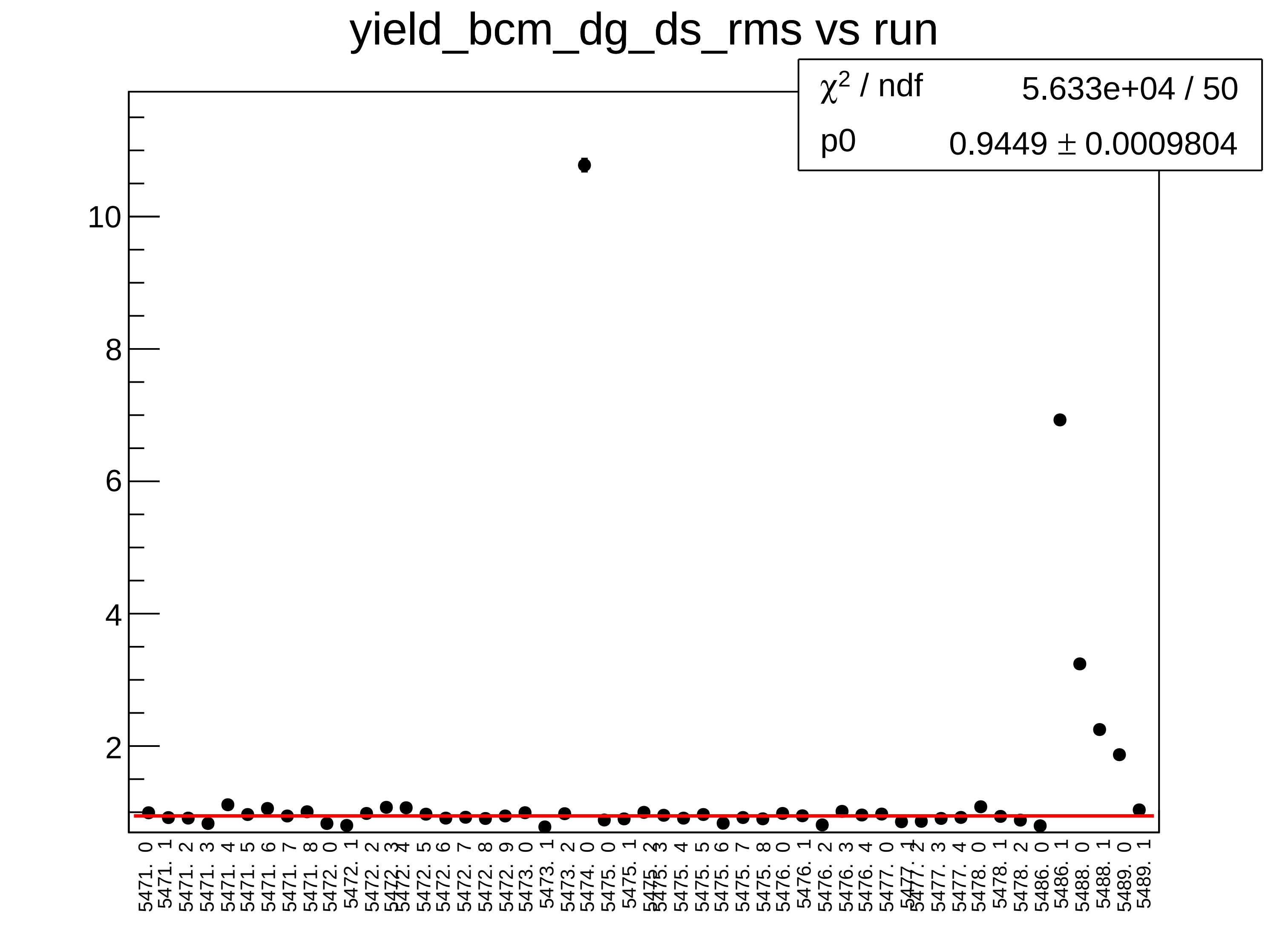
yield_bcm_dg_us_mean vs run
χ2 / ndf 4.913e+06 / 50
p0 151.2 ± 0.001376
pull
Entries 51
Mean 398.7
Std Dev 368.9
pull1D
Entries 51
Mean −5.034
Std Dev 0



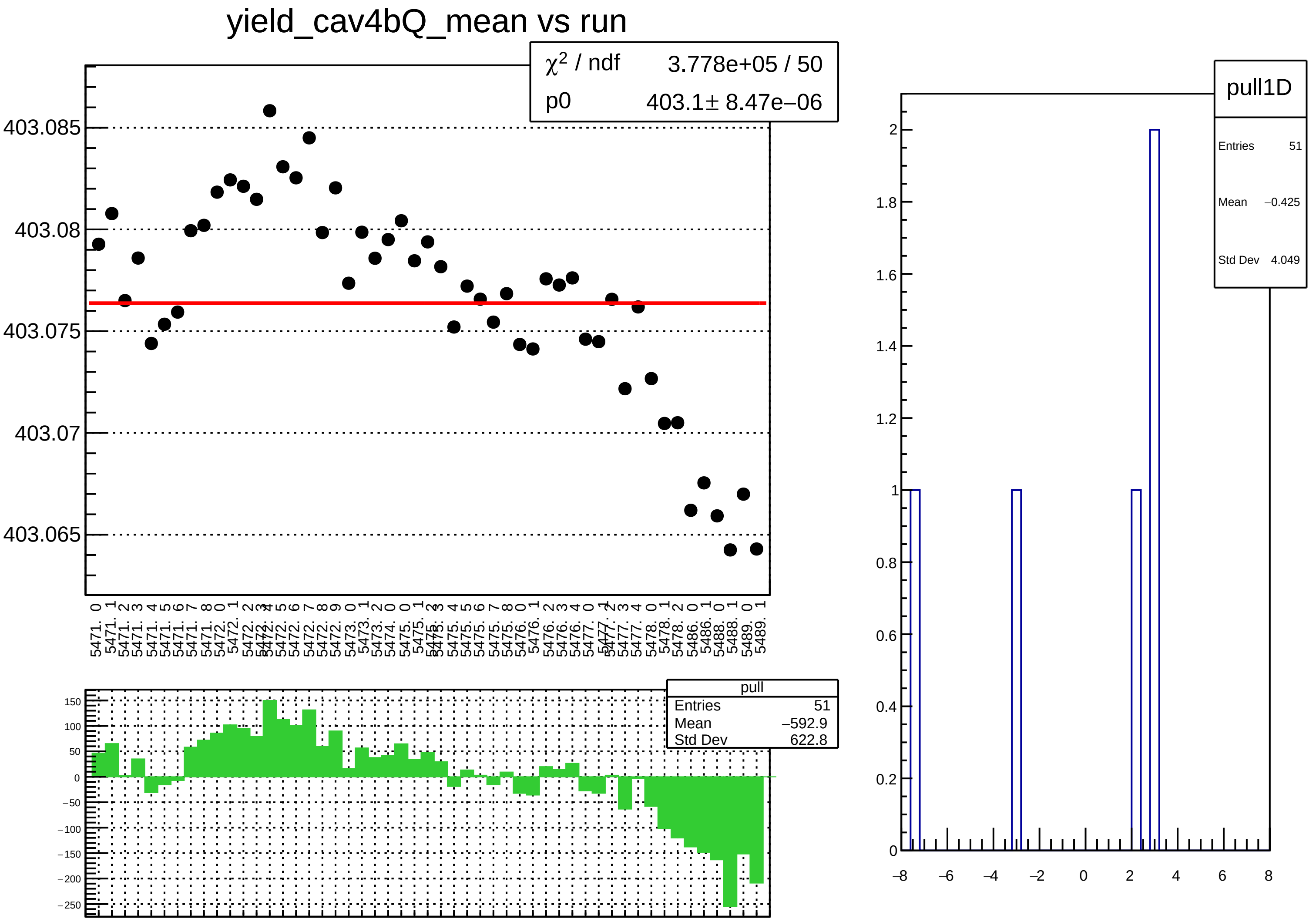
yield_bcm_dg_us_rms vs run
χ2 / ndf 5.608e+04 / 50
p0 0.9375 ± 0.0009726
10
8
6
4
2



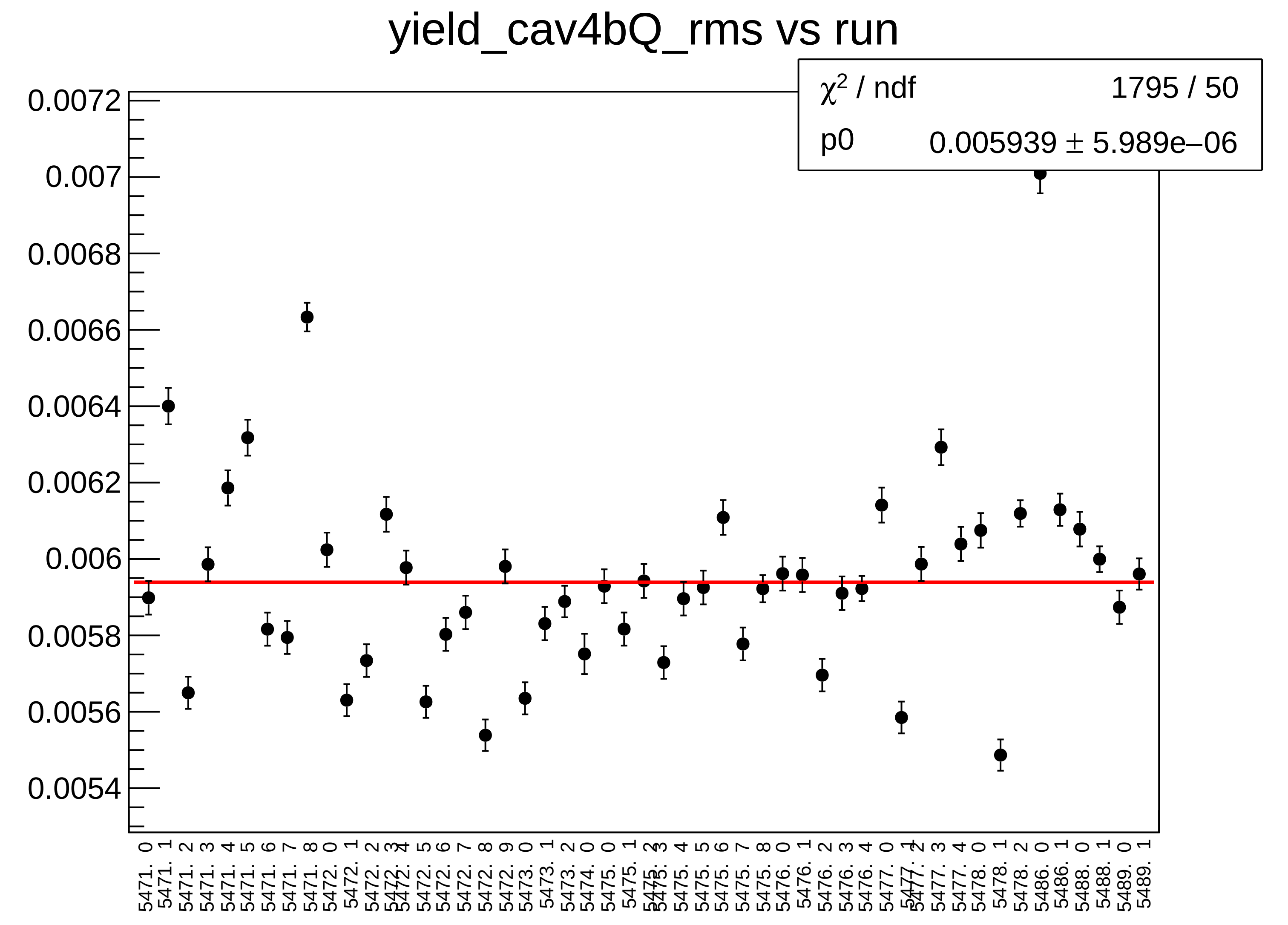
yield_bcm_dg_ds_mean vs run
χ^2 / ndf 5.092e+06 / 50
p0 151.3 ± 0.001387
154
152
150
148
146
144
142
140
138
136
134
132
5471.0 5471.1 5471.2 5471.3 5471.4 5471.5 5471.6 5471.7 5471.8 5472.0 5472.1 5472.2 5472.3 5472.4 5472.5 5472.6 5472.7 5472.8 5472.9 5473.0 5473.1 5473.2 5474.0 5475.0 5475.1 5475.2 5475.3 5475.4 5475.5 5475.6 5475.7 5475.8 5476.0 5476.1 5476.2 5476.3 5476.4 5477.0 5477.1 5477.2 5477.3 5477.4 5478.0 5478.1 5478.2 5486.0 5486.1 5488.0 5488.1 5489.0 5489.1
pull
Entries 51
Mean 597.2
Std Dev 567.6
0
−500
−1000
−1500
−2000
pull1D
Entries 51
Mean −4.569
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
χ^2 / ndf 5.633e+04 / 50
p0 0.9449 ± 0.0009804
10
8
6
4
2

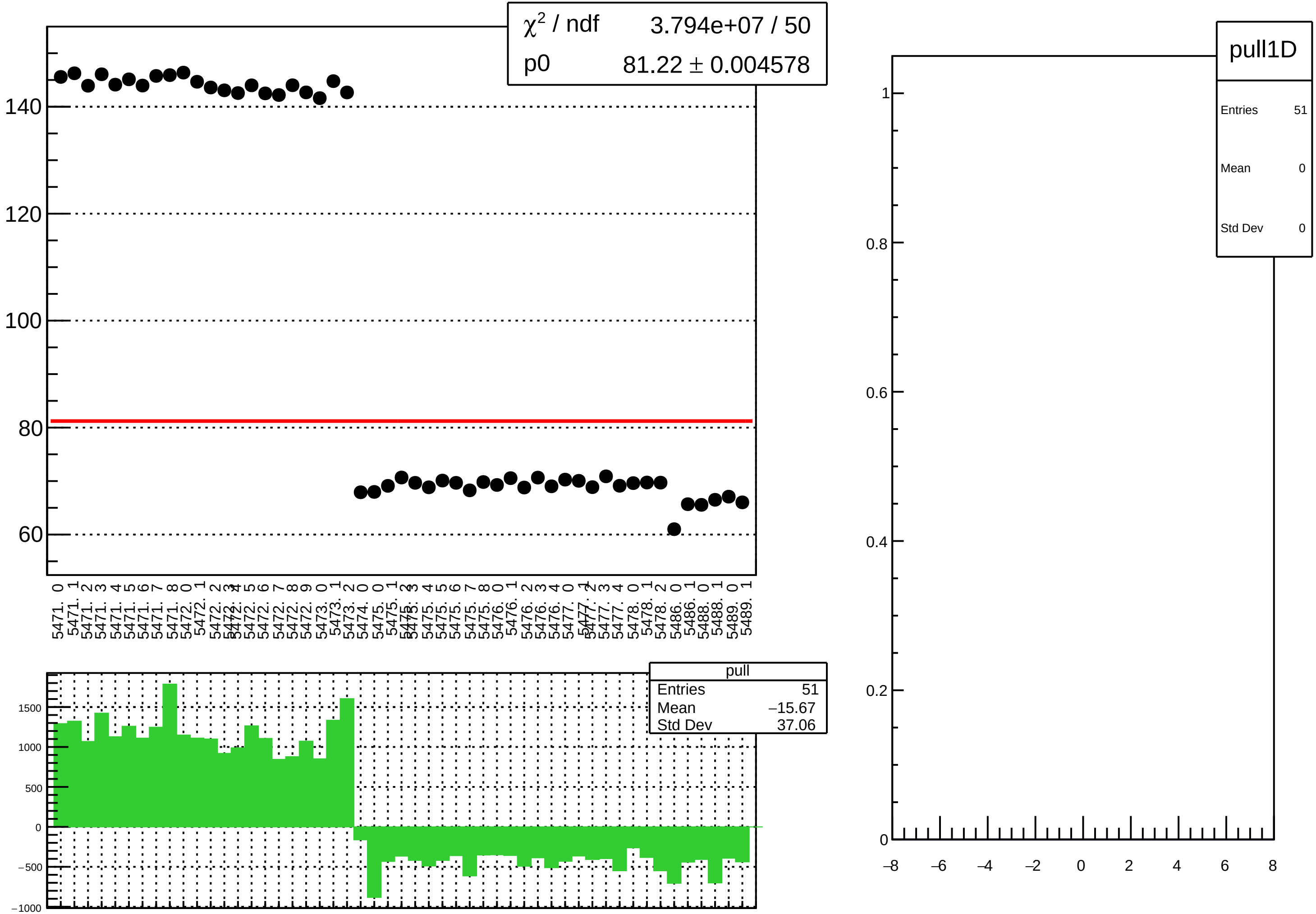


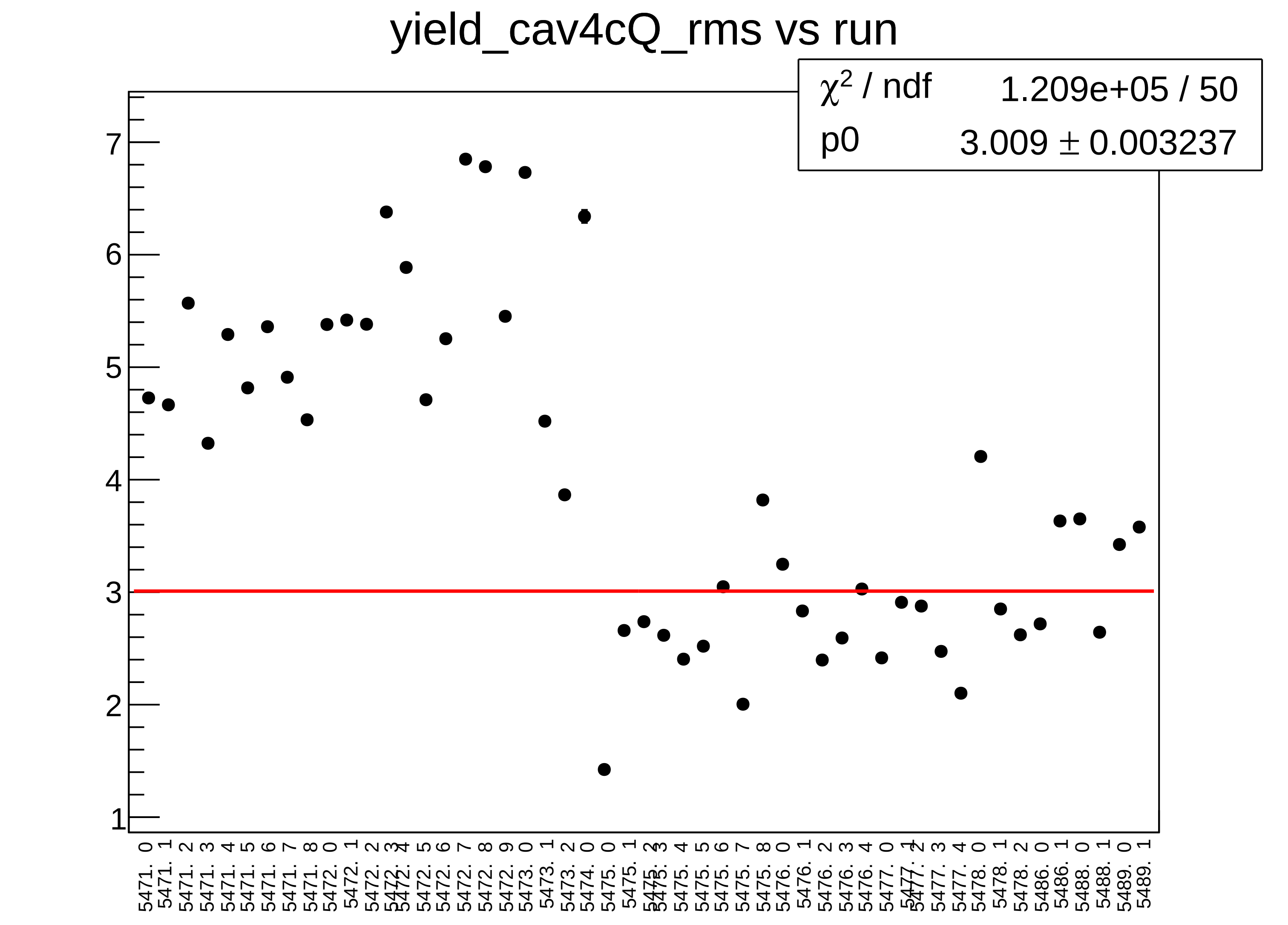
yield_cav4bQ_mean vs run
χ2 / ndf 3.778e+05 / 50
p0 403.1± 8.47e−06
403.085
403.08
403.075
403.07
403.065
pull
Entries 51
Mean −592.9
Std Dev 622.8
pull1D
Entries 51
Mean −0.425
Std Dev 4.049



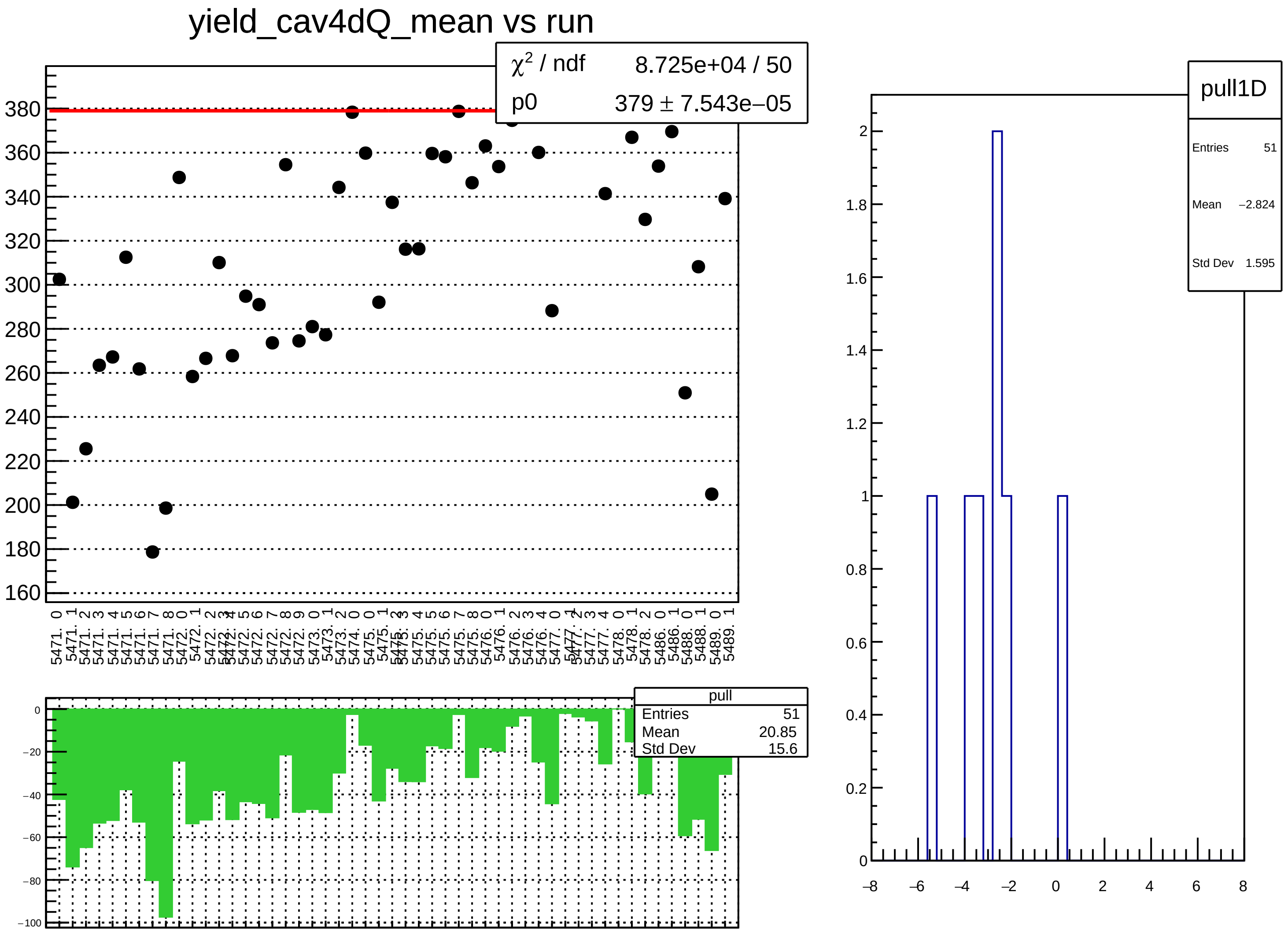
yield_cav4bQ_rms vs run
χ^2 / ndf 1795 / 50
p0 0.005939 ± 5.989e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

yield_cav4cQ_mean vs run

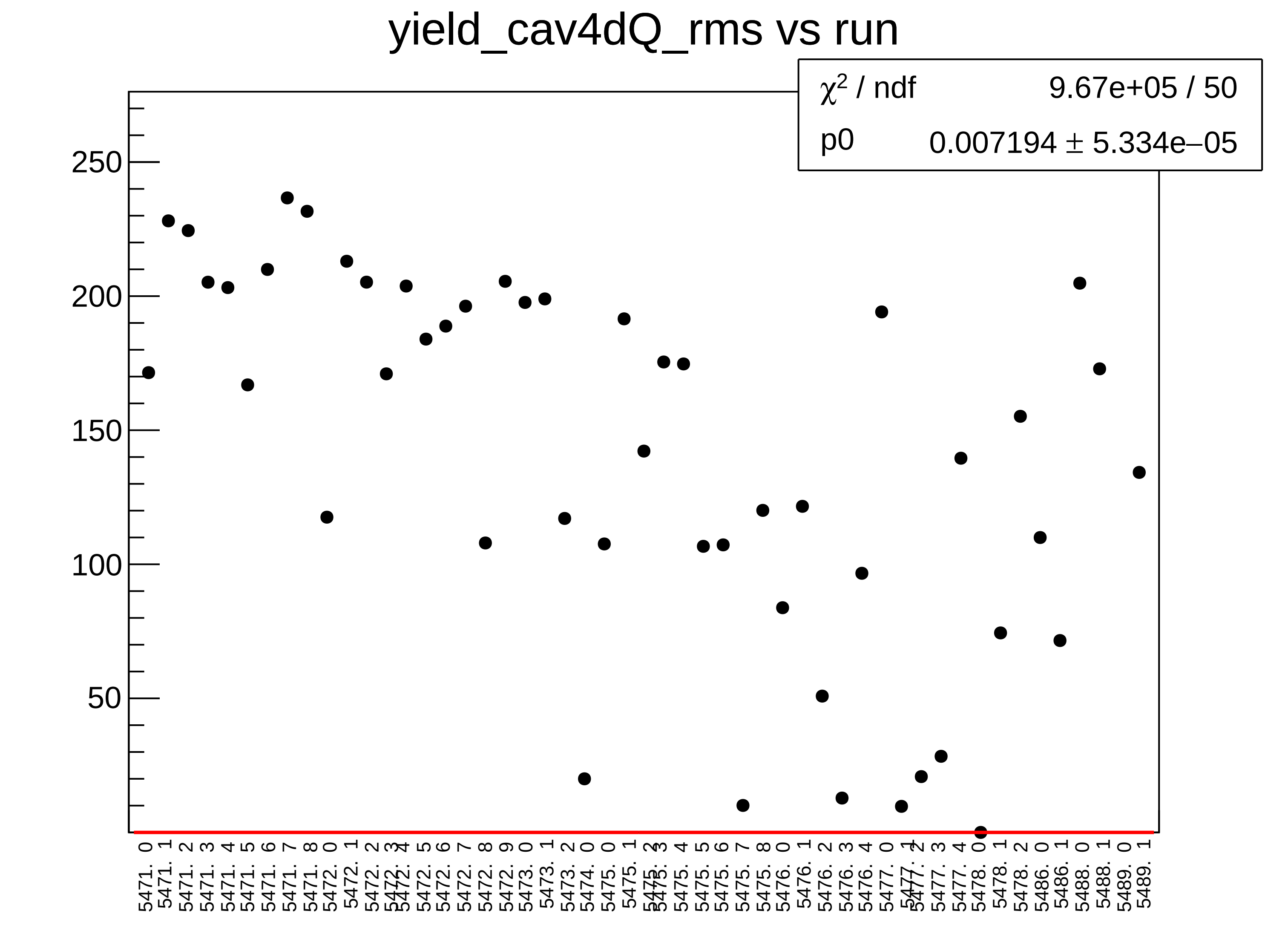




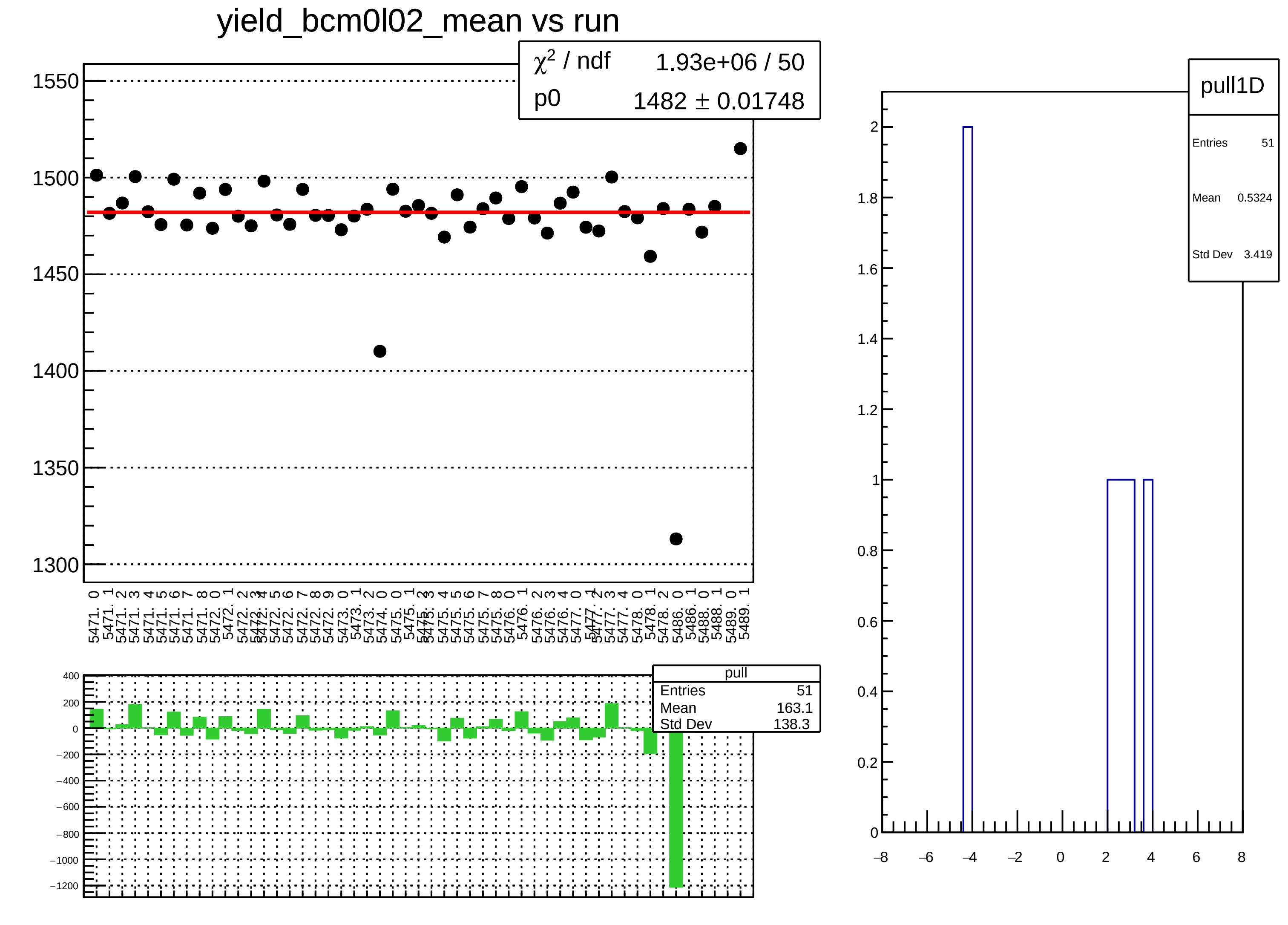
yield_cav4cQ_rms vs run
χ^2 / ndf 1.209e+05 / 50
p0 3.009 ± 0.003237
1
2
3
4
5
6
7
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



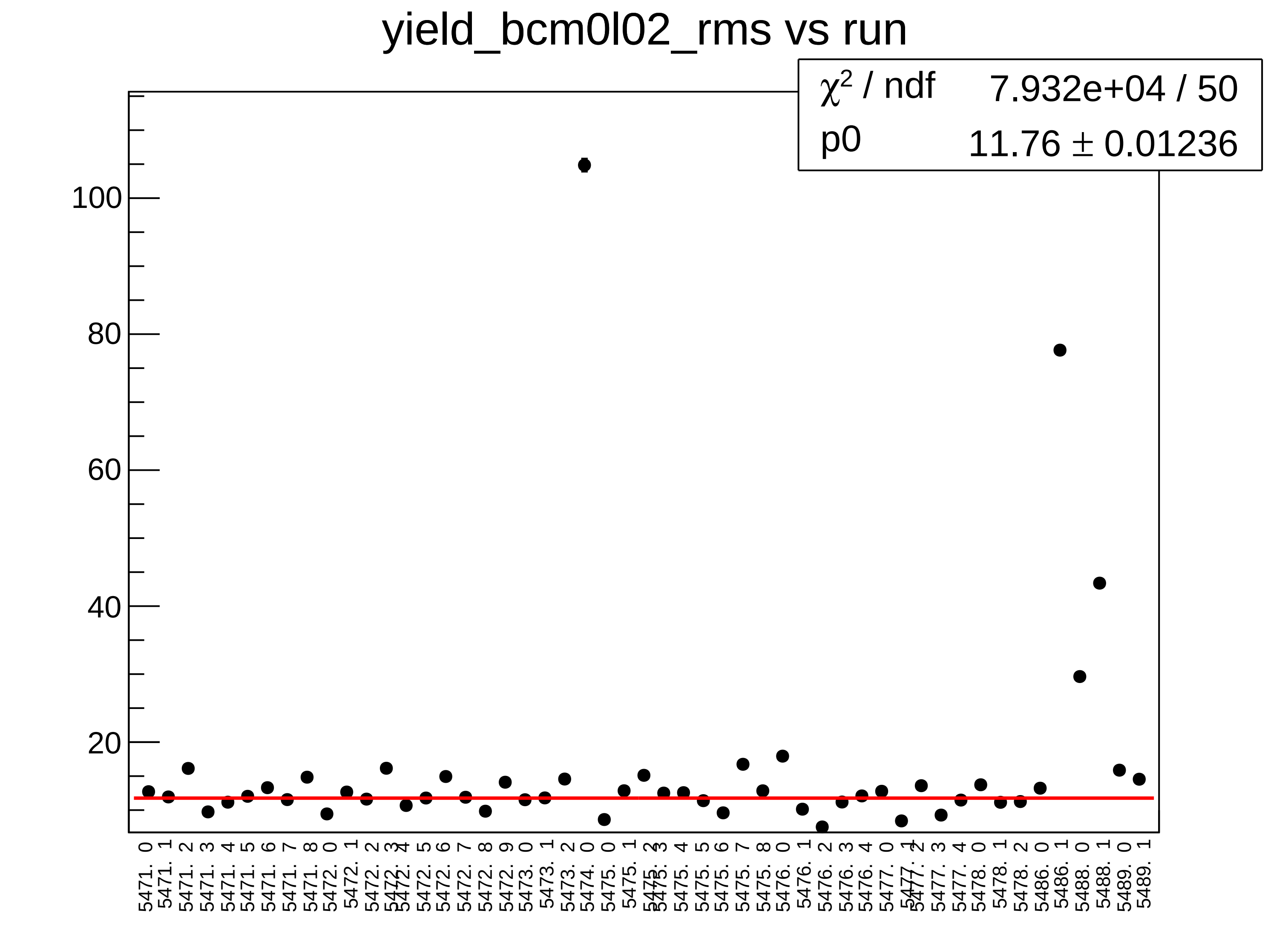
yield_cav4dQ_mean vs run
χ^2 / ndf 8.725e+04 / 50
p0 379 ± 7.543e−05
pull
Entries 51
Mean 20.85
Std Dev 15.6
pull1D
Entries 51
Mean −2.824
Std Dev 1.595



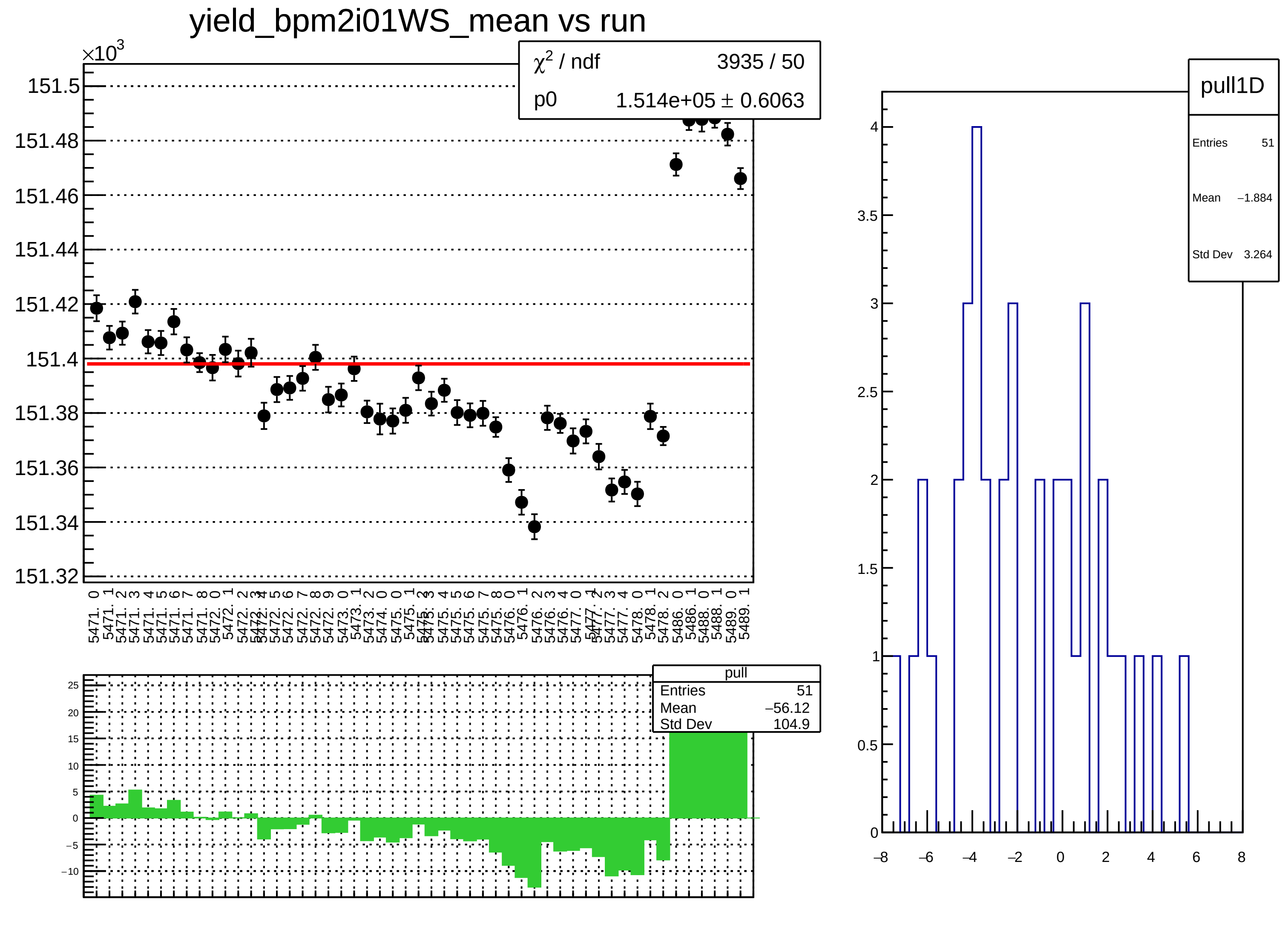
yield_cav4dQ_rms vs run
χ^2 / ndf 9.67e+05 / 50
p0 0.007194 ± 5.334e−05
250
200
150
100
50



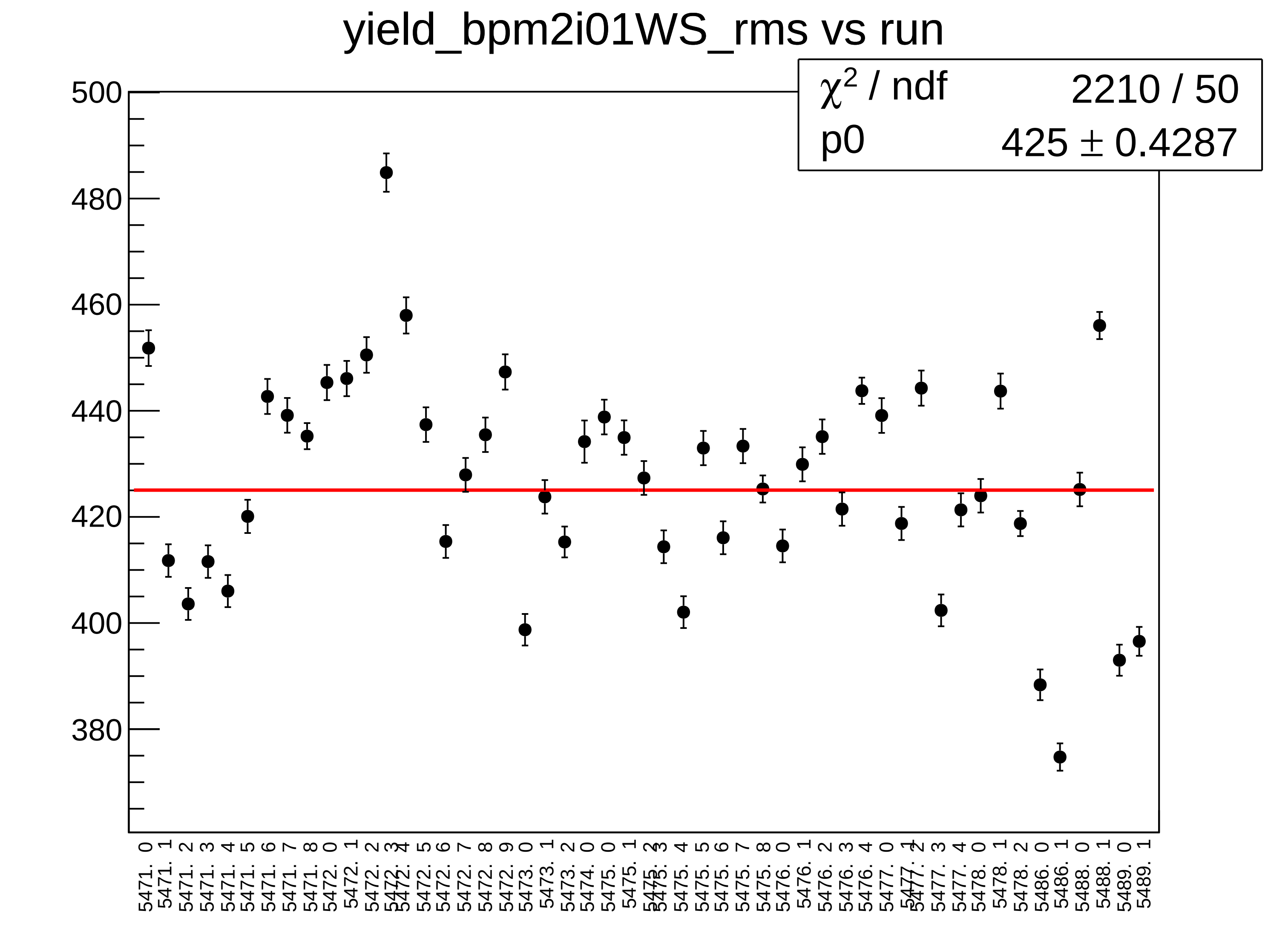
yield_bcm0l02_mean vs run
χ2 / ndf 1.93e+06 / 50
p0 1482 ± 0.01748
1550
1500
1450
1400
1350
1300
pull
Entries 51
Mean 163.1
Std Dev 138.3
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 51
Mean 0.5324
Std Dev 3.419
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



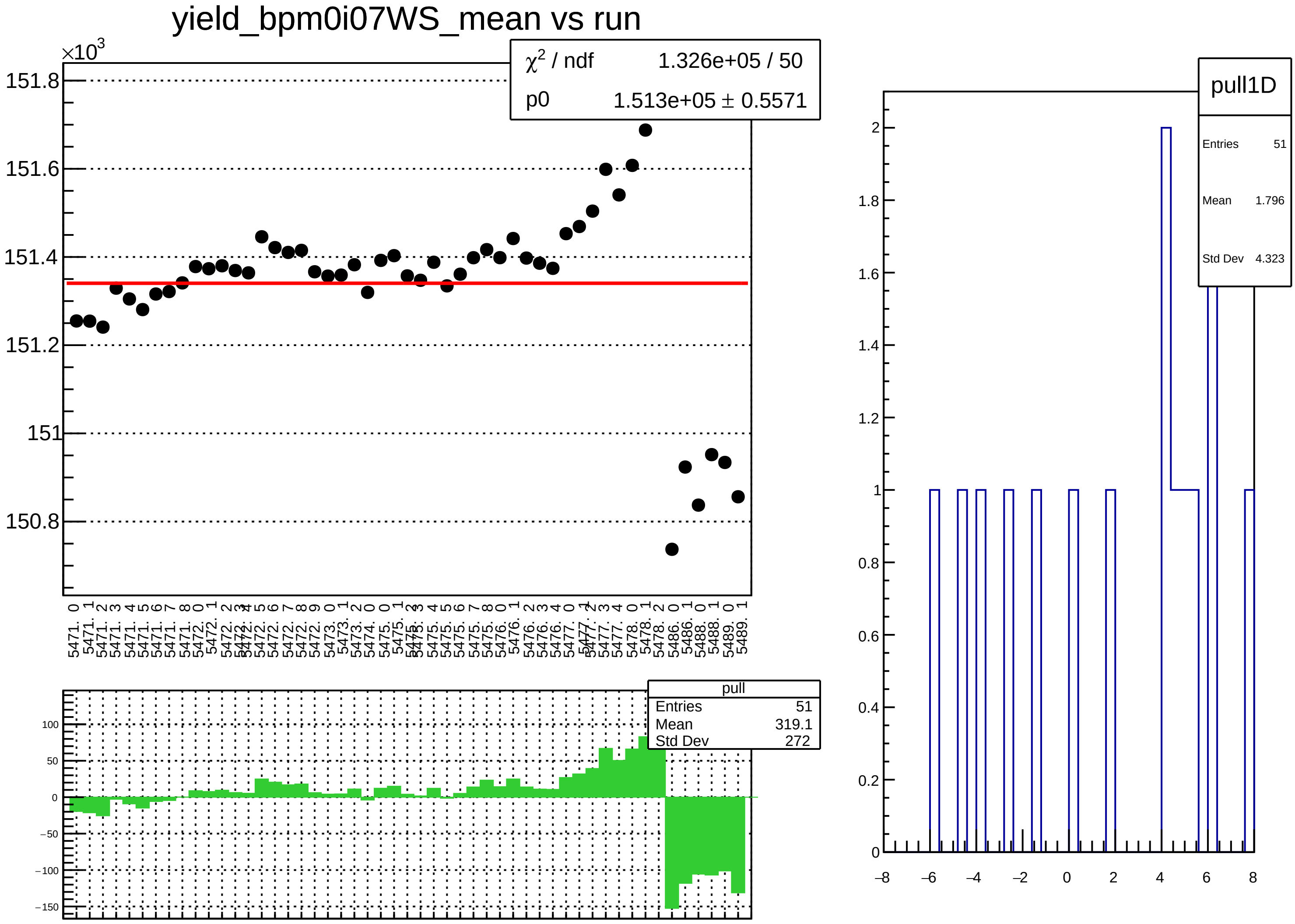
yield_bcm0l02_rms vs run
χ^2 / ndf 7.932e+04 / 50
p0 11.76 ± 0.01236
100
80
60
40
20



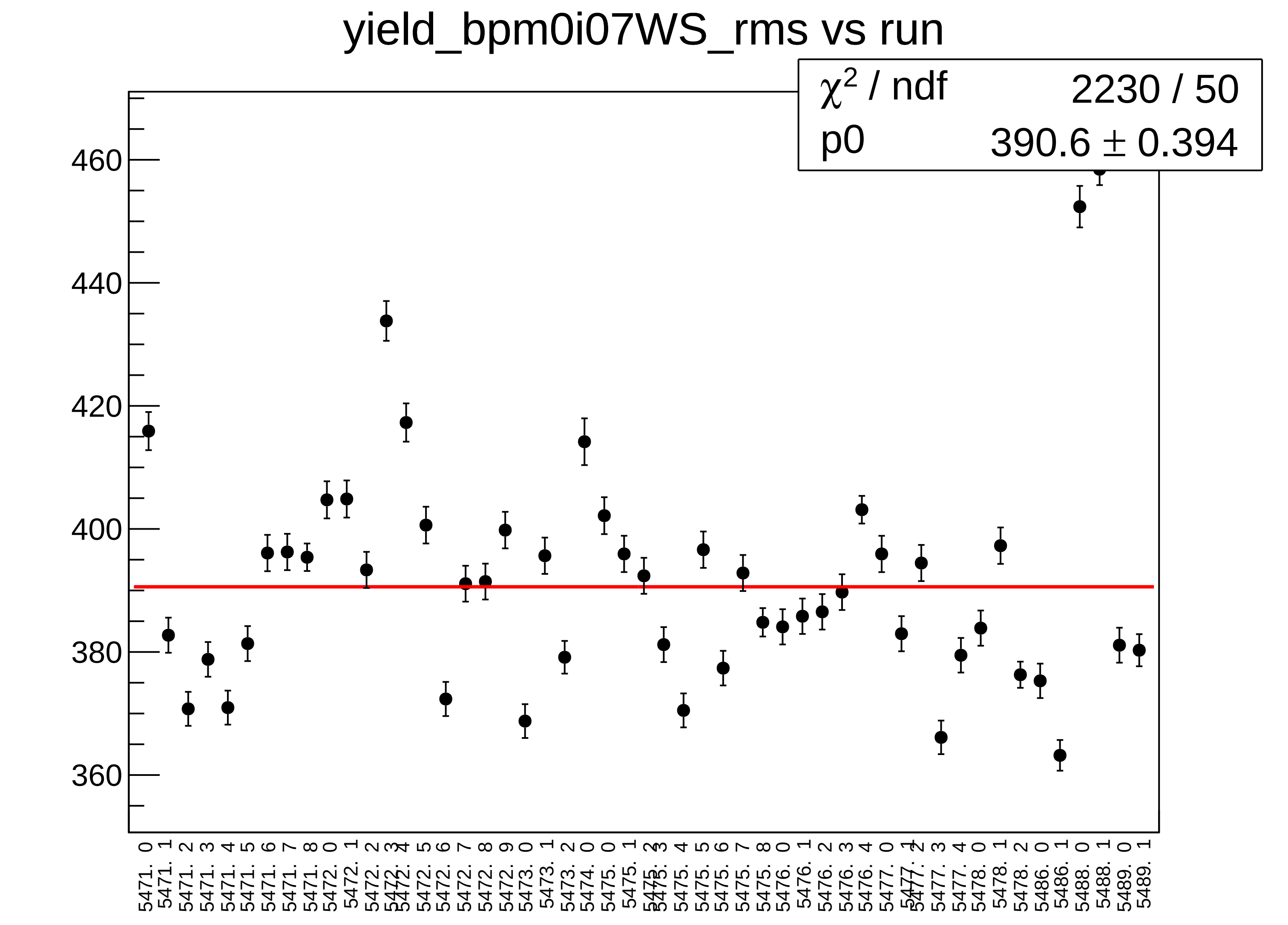
yield_bpm2i01WS_mean vs run
χ^2 / ndf 3935 / 50
p0 1.514e+05 ± 0.6063
pull
Entries 51
Mean −56.12
Std Dev 104.9
pull1D
Entries 51
Mean −1.884
Std Dev 3.264

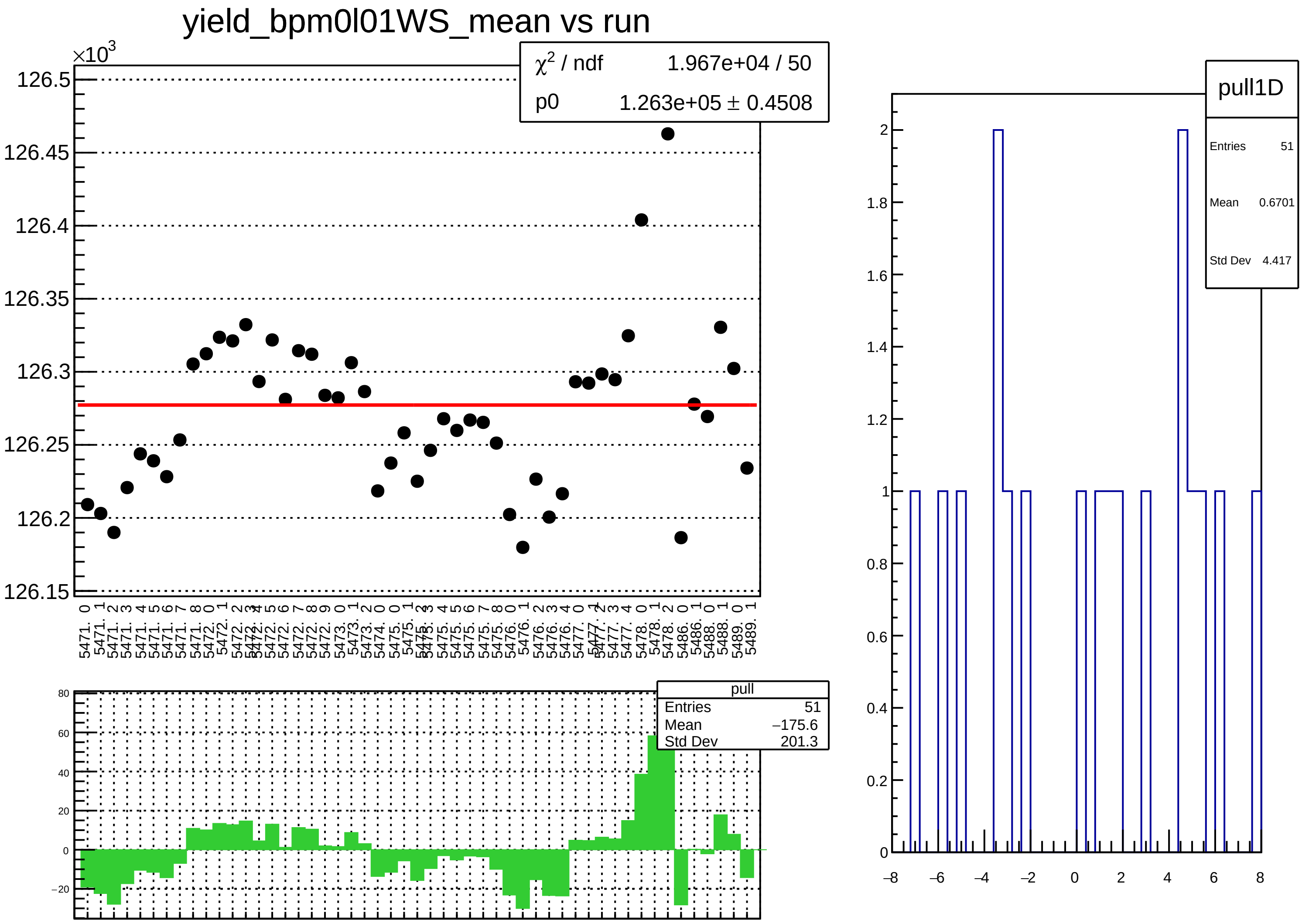


yield_bpm2i01WS_rms vs run
χ^2 / ndf 2210 / 50
p0 425 ± 0.4287
500
480
460
440
420
400
380
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

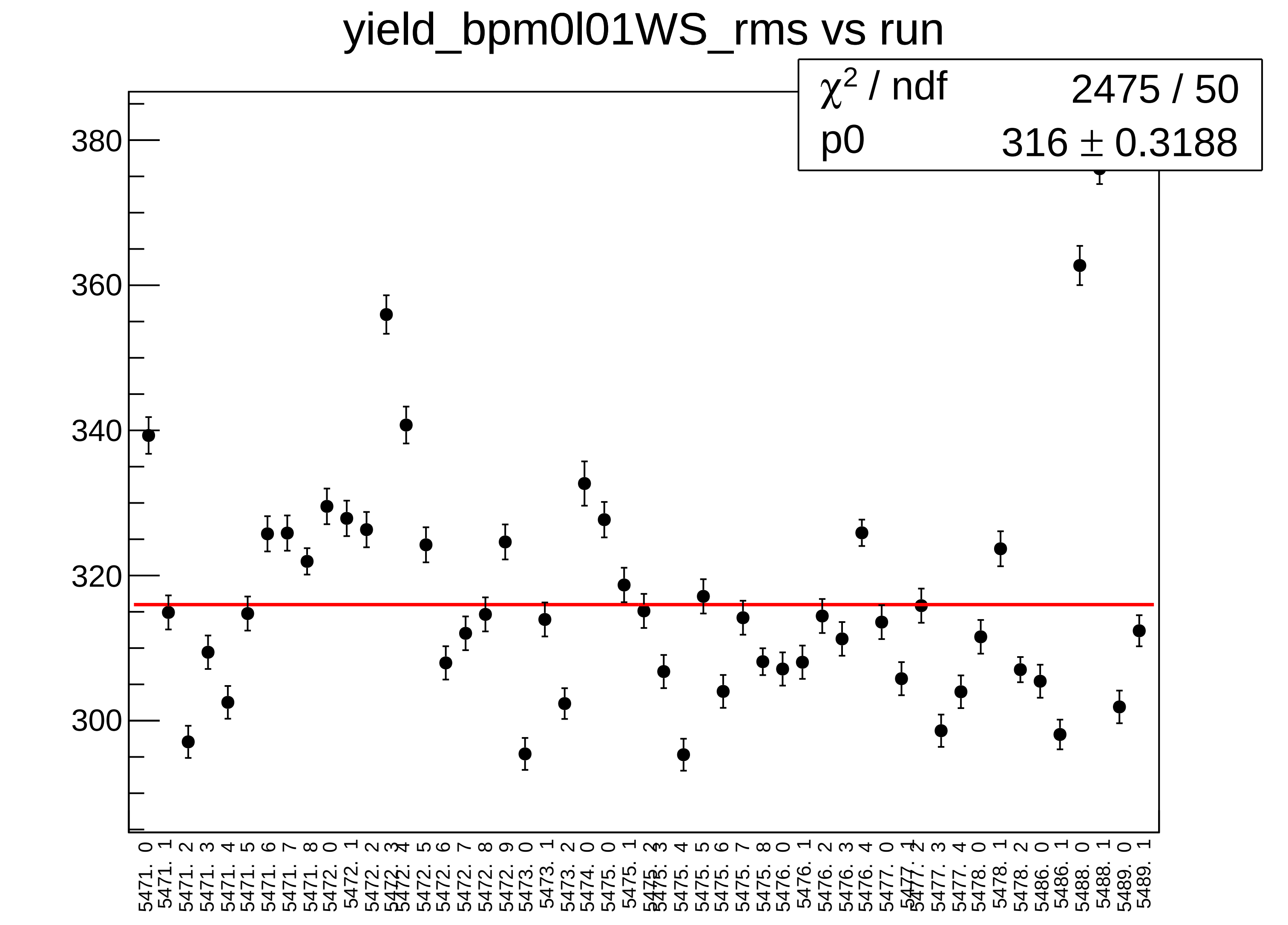


yield_bpm0i07WS_mean vs run
χ2 / ndf 1.326e+05 / 50
p0 1.513e+05 ± 0.5571
pull
Entries 51
Mean 319.1
Std Dev 272
pull1D
Entries 51
Mean 1.796
Std Dev 4.323

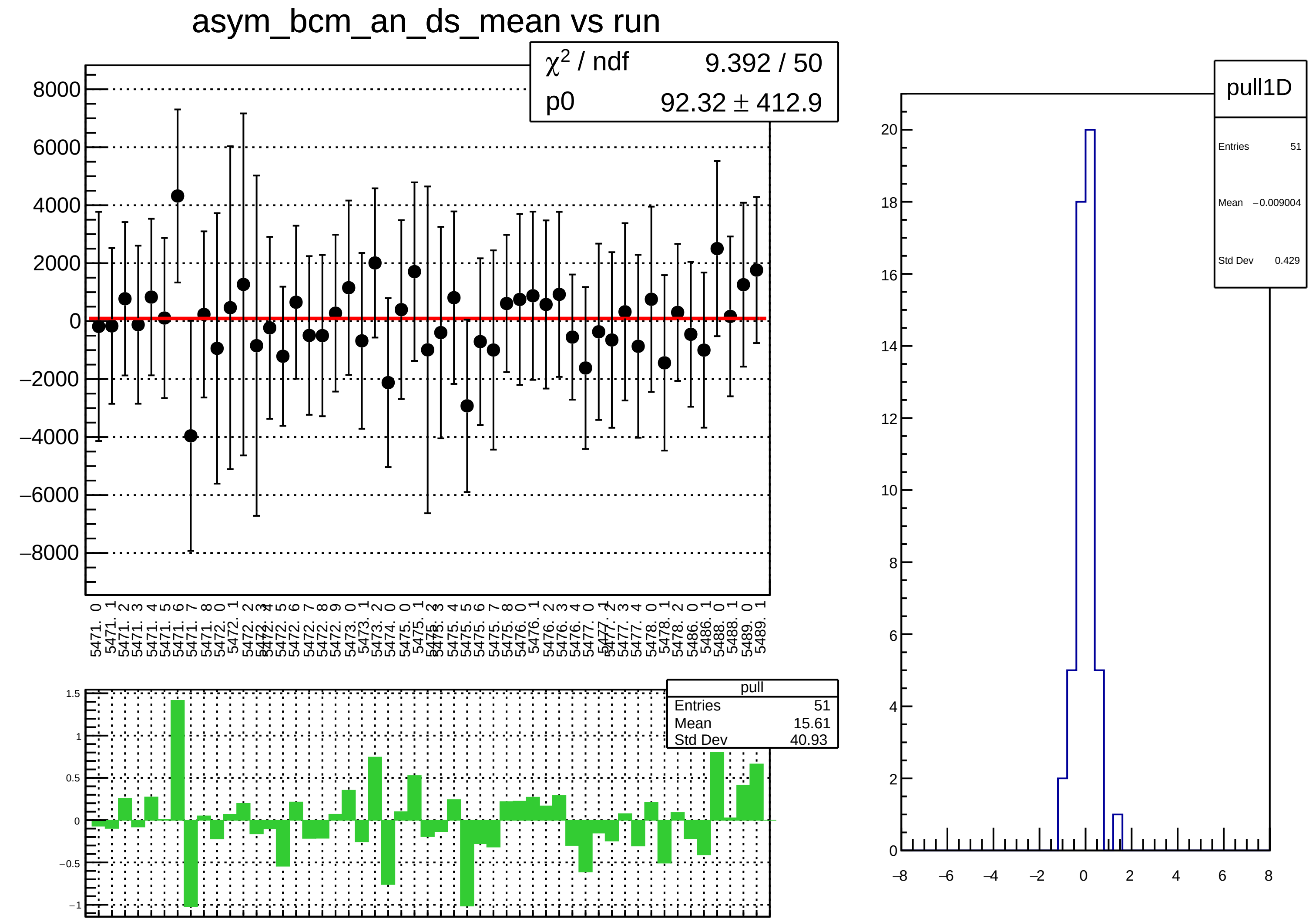

yield_bpm0i07WS_rms vs run
χ^2 / ndf 2230 / 50
p0 390.6 ± 0.394
460
440
420
400
380
360

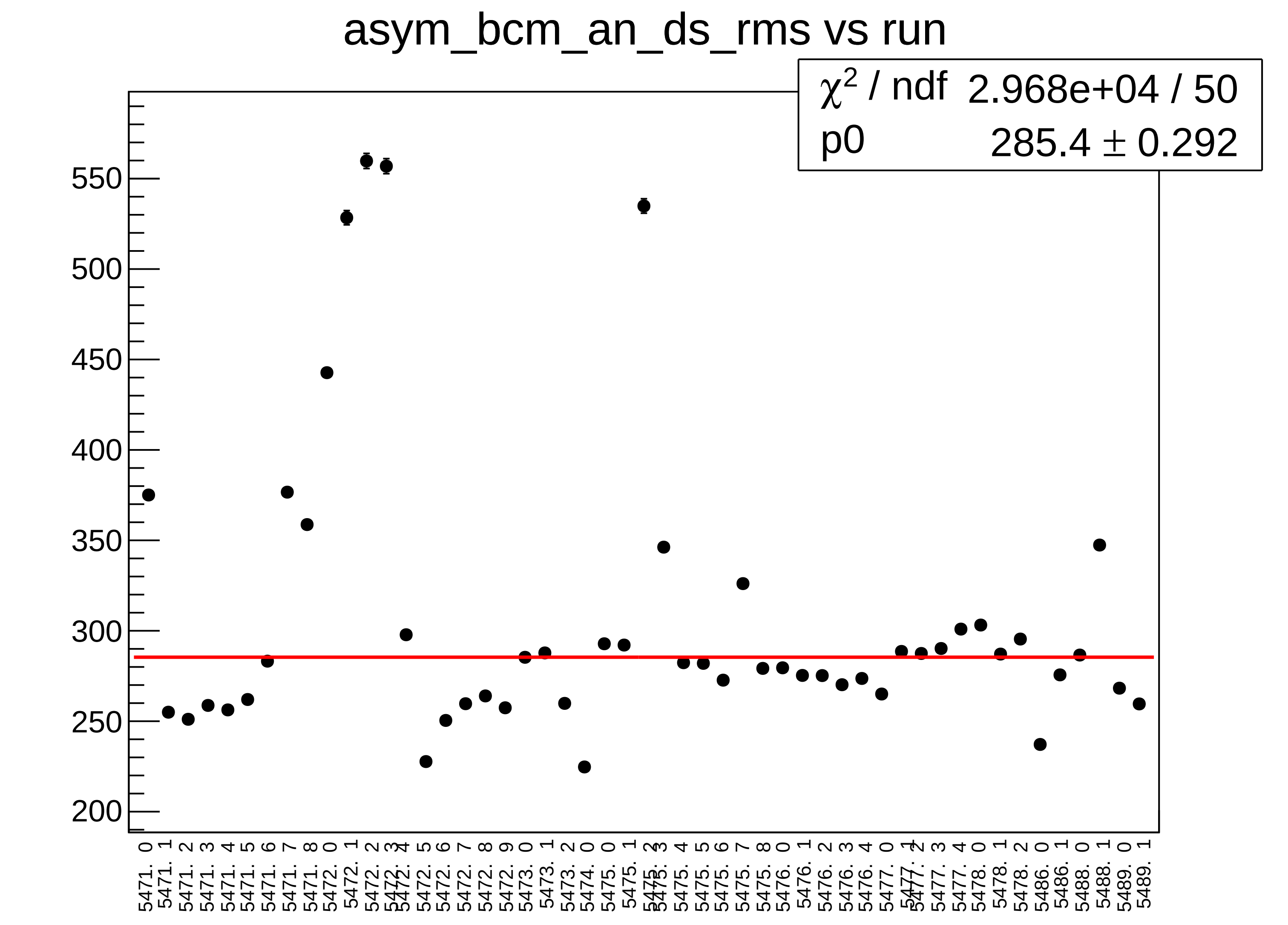


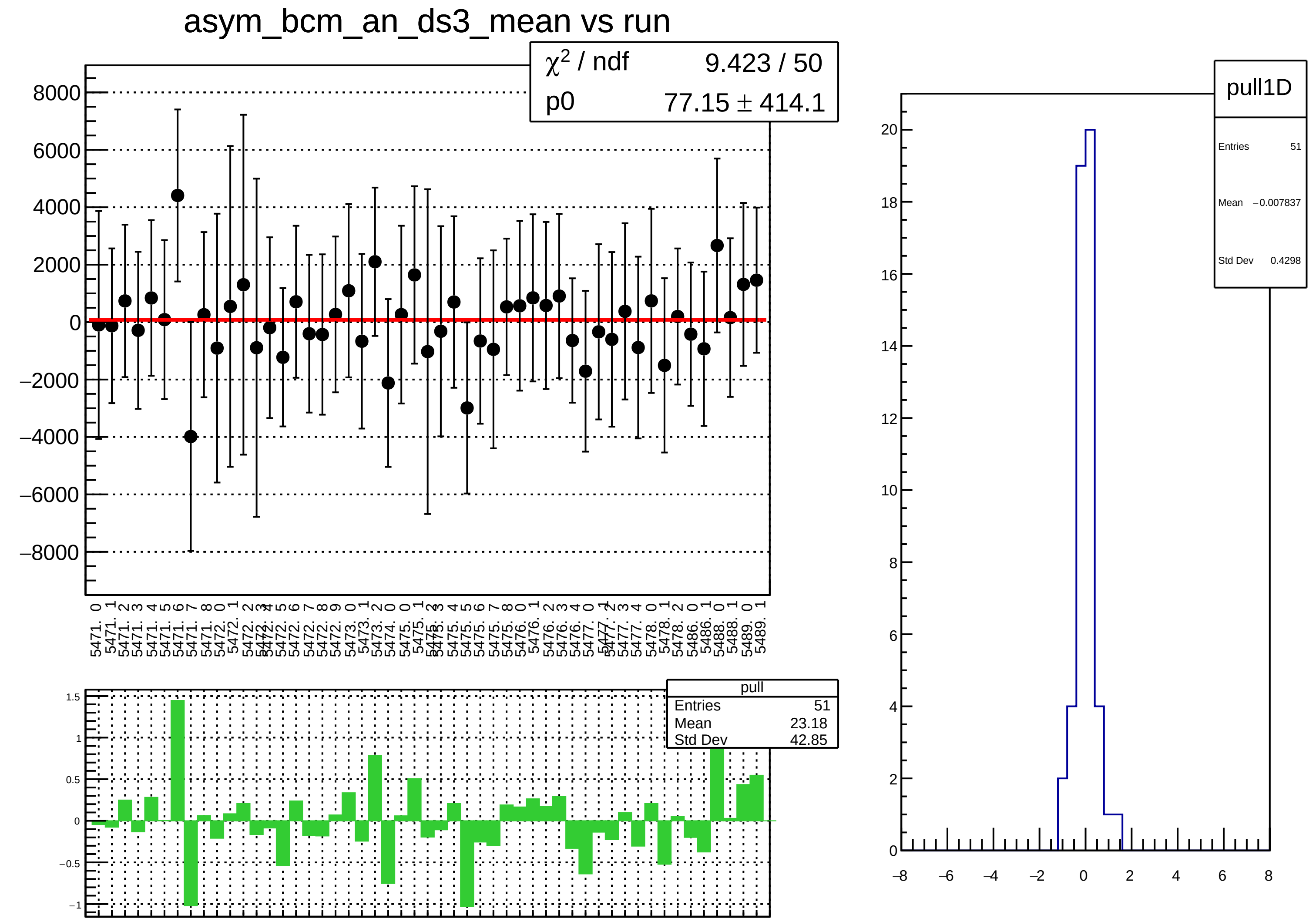
yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 1.967e+04 / 50
p0 1.263e+05 ± 0.4508
pull
Entries 51
Mean −175.6
Std Dev 201.3
pull1D
Entries 51
Mean 0.6701
Std Dev 4.417



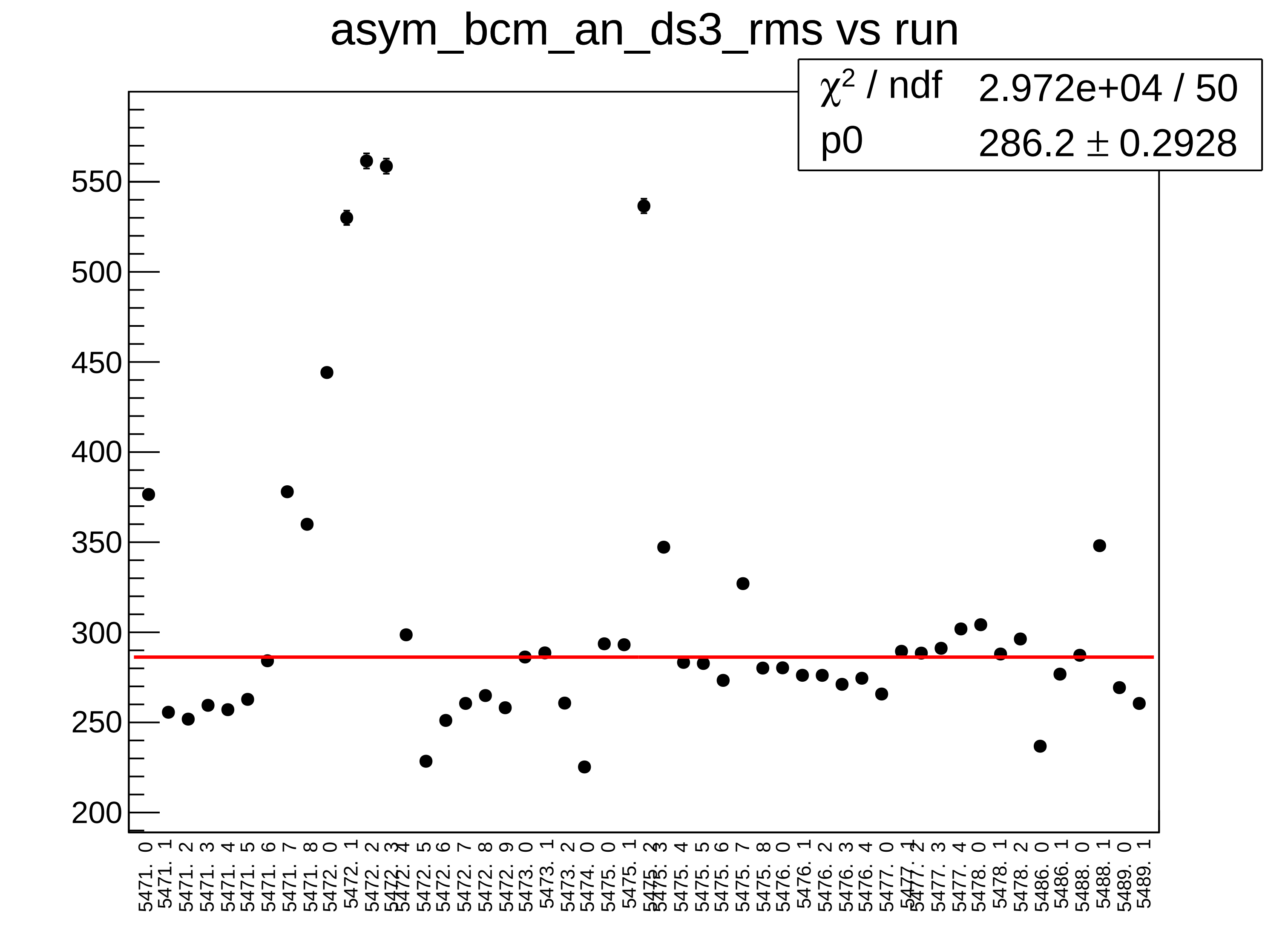
yield_bpm0l01WS_rms vs run
χ2 / ndf 2475 / 50
p0 316 ± 0.3188
380
360
340
320
300


asym_bcm_an_ds_mean vs run
χ2 / ndf 9.392 / 50
p0 92.32 ± 412.9
pull
Entries 51
Mean 15.61
Std Dev 40.93
pull1D
Entries 51
Mean −0.009004
Std Dev 0.429

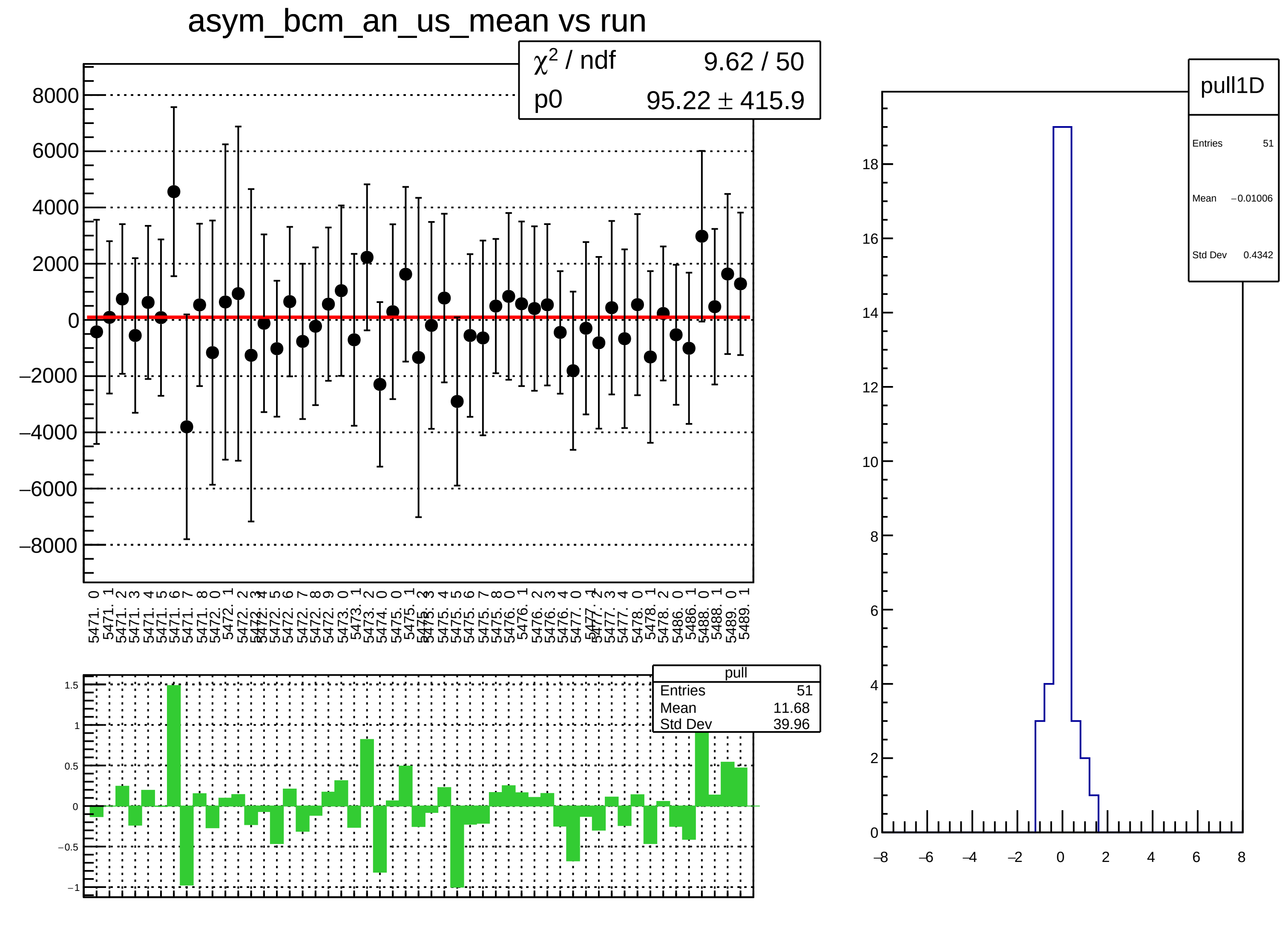

asym_bcm_an_ds_rms vs run
χ^2 / ndf 2.968e+04 / 50
p0 285.4 ± 0.292
550
500
450
400
350
300
250
200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



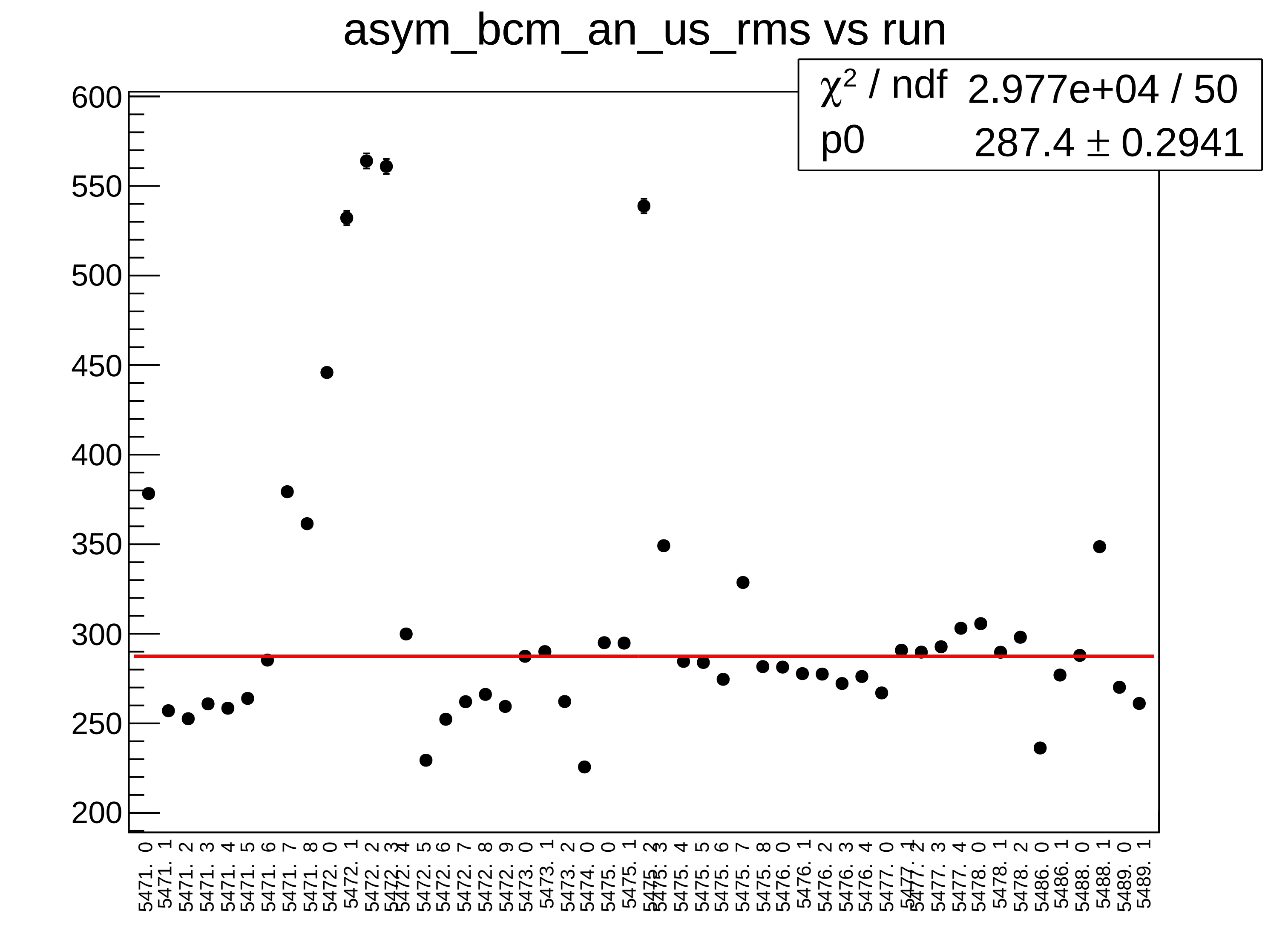
asym_bcm_an_ds3_mean vs run
χ2 / ndf 9.423 / 50
p0 77.15 ± 414.1
pull
Entries 51
Mean 23.18
Std Dev 42.85
pull1D
Entries 51
Mean −0.007837
Std Dev 0.4298



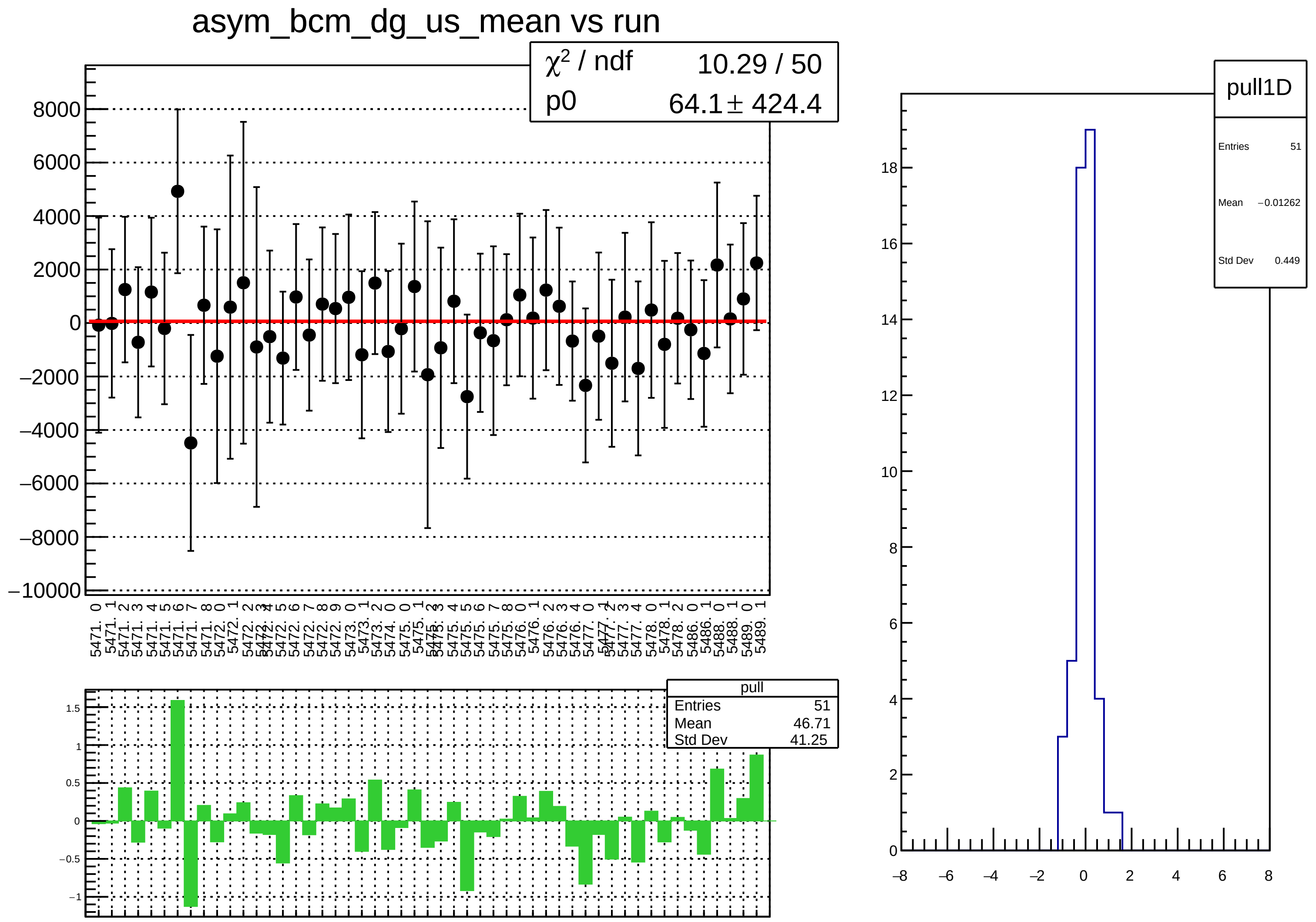
asym_bcm_an_ds3_rms vs run
χ2 / ndf 2.972e+04 / 50
p0 286.2 ± 0.2928
550
500
450
400
350
300
250
200

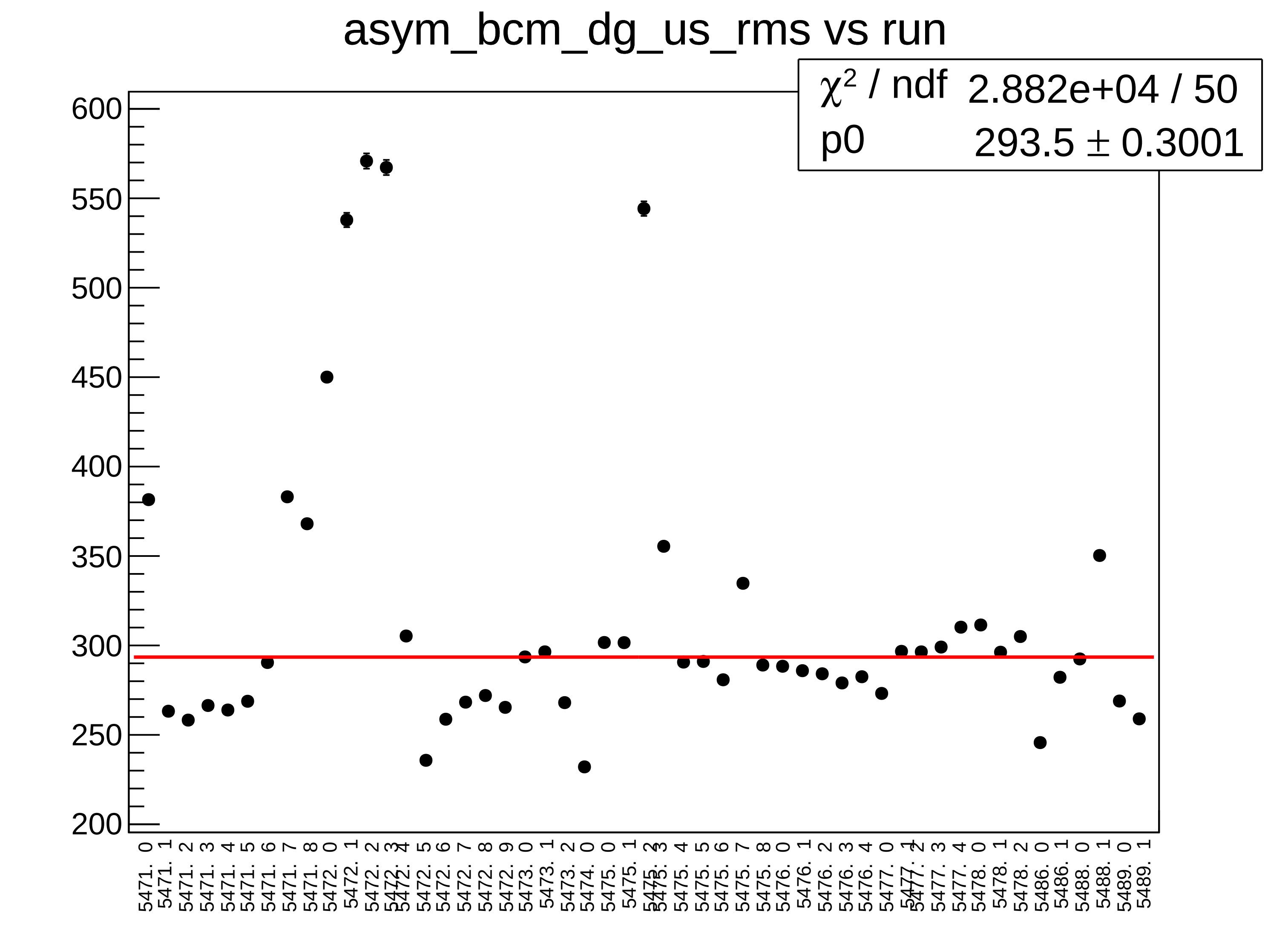


asym_bcm_an_us_mean vs run
χ^2 / ndf 9.62 / 50
p0 95.22 ± 415.9
pull
Entries 51
Mean 11.68
Std Dev 39.96
pull1D
Entries 51
Mean −0.01006
Std Dev 0.4342

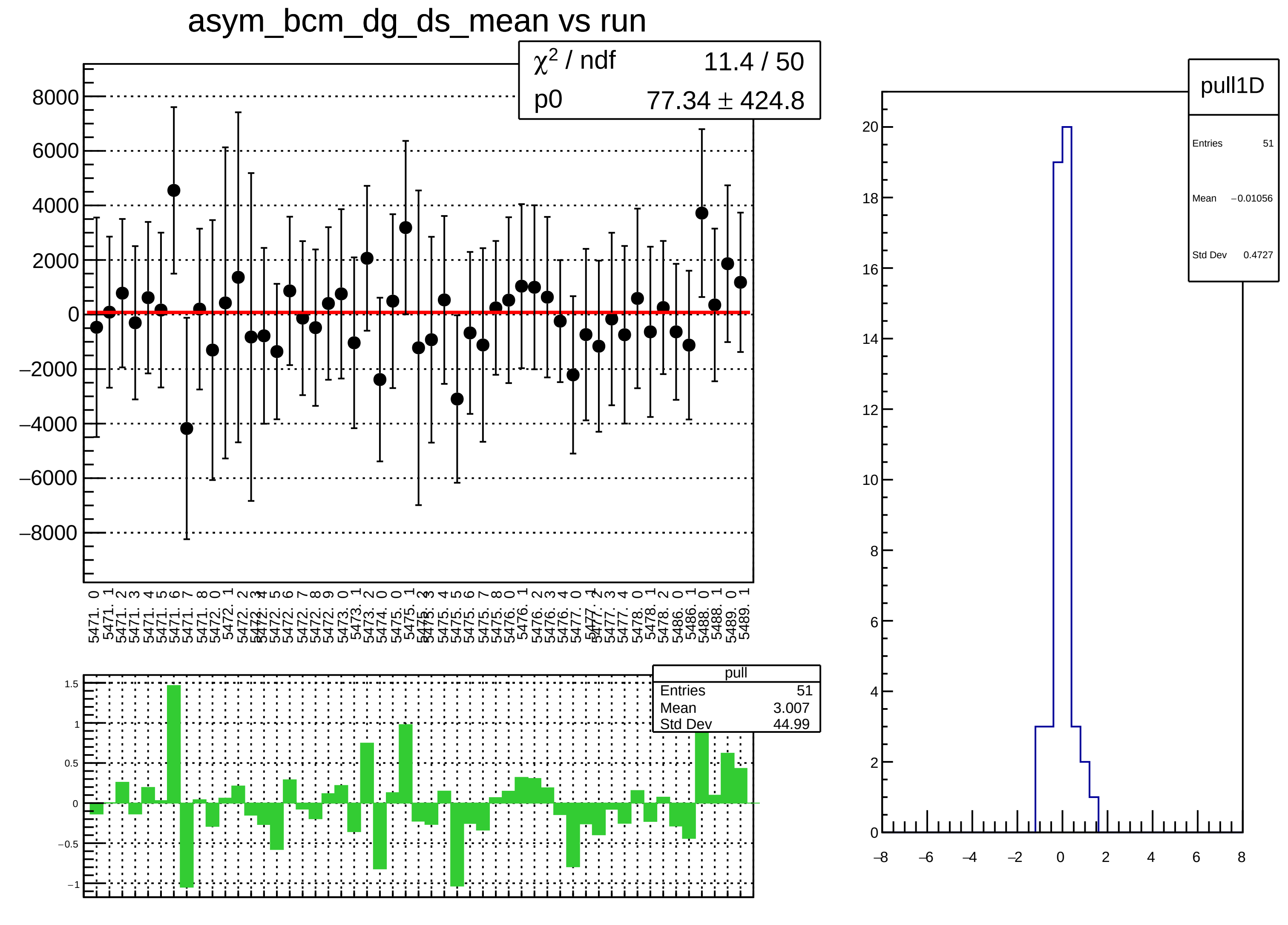


asym_bcm_an_us_rms vs run
χ2 / ndf 2.977e+04 / 50
p0 287.4 ± 0.2941
600
550
500
450
400
350
300
250
200

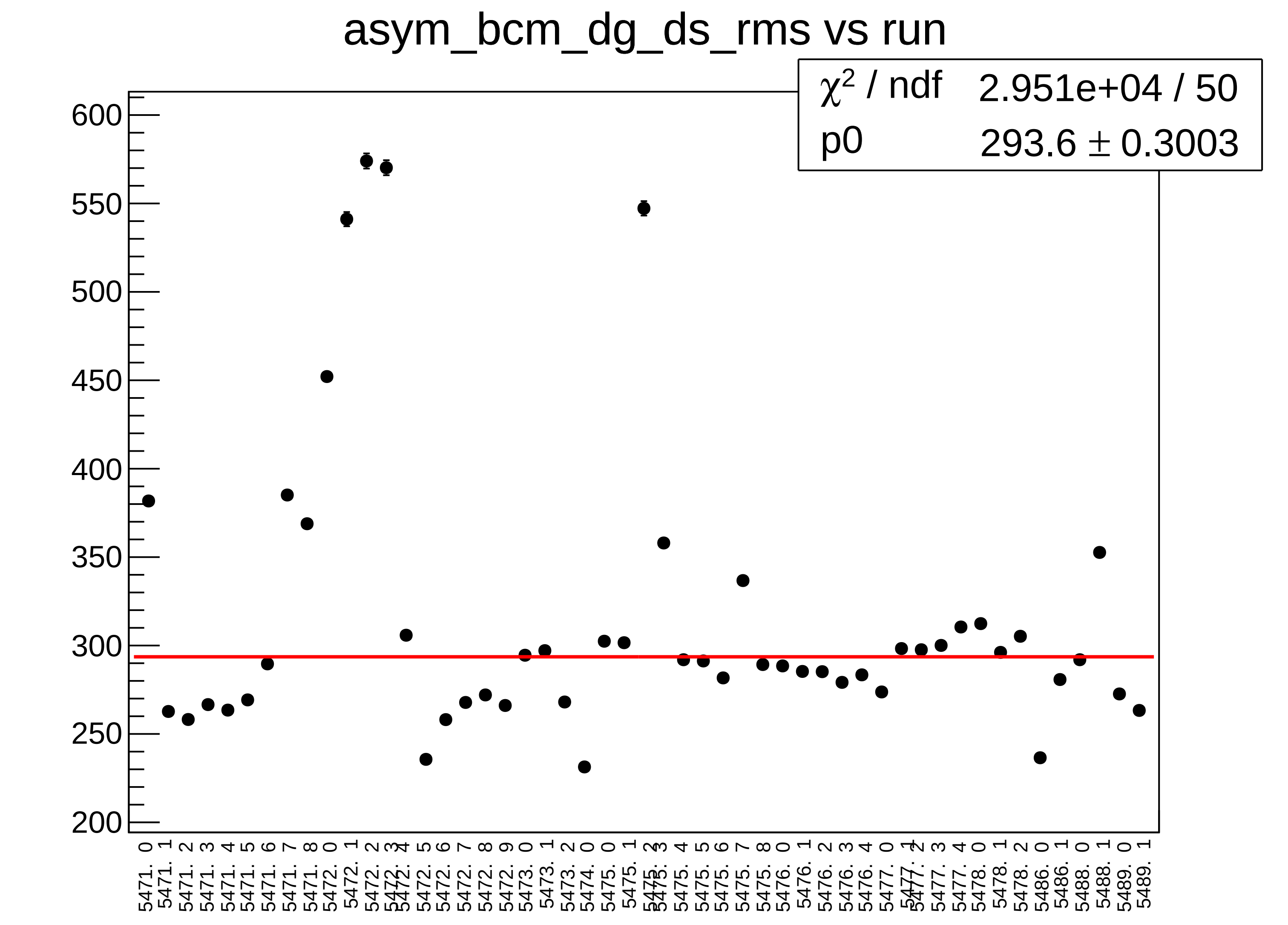

asym_bcm_dg_us_mean vs run
χ2 / ndf 10.29 / 50
p0 64.1 ± 424.4
pull
Entries 51
Mean 46.71
Std Dev 41.25
pull1D
Entries 51
Mean −0.01262
Std Dev 0.449



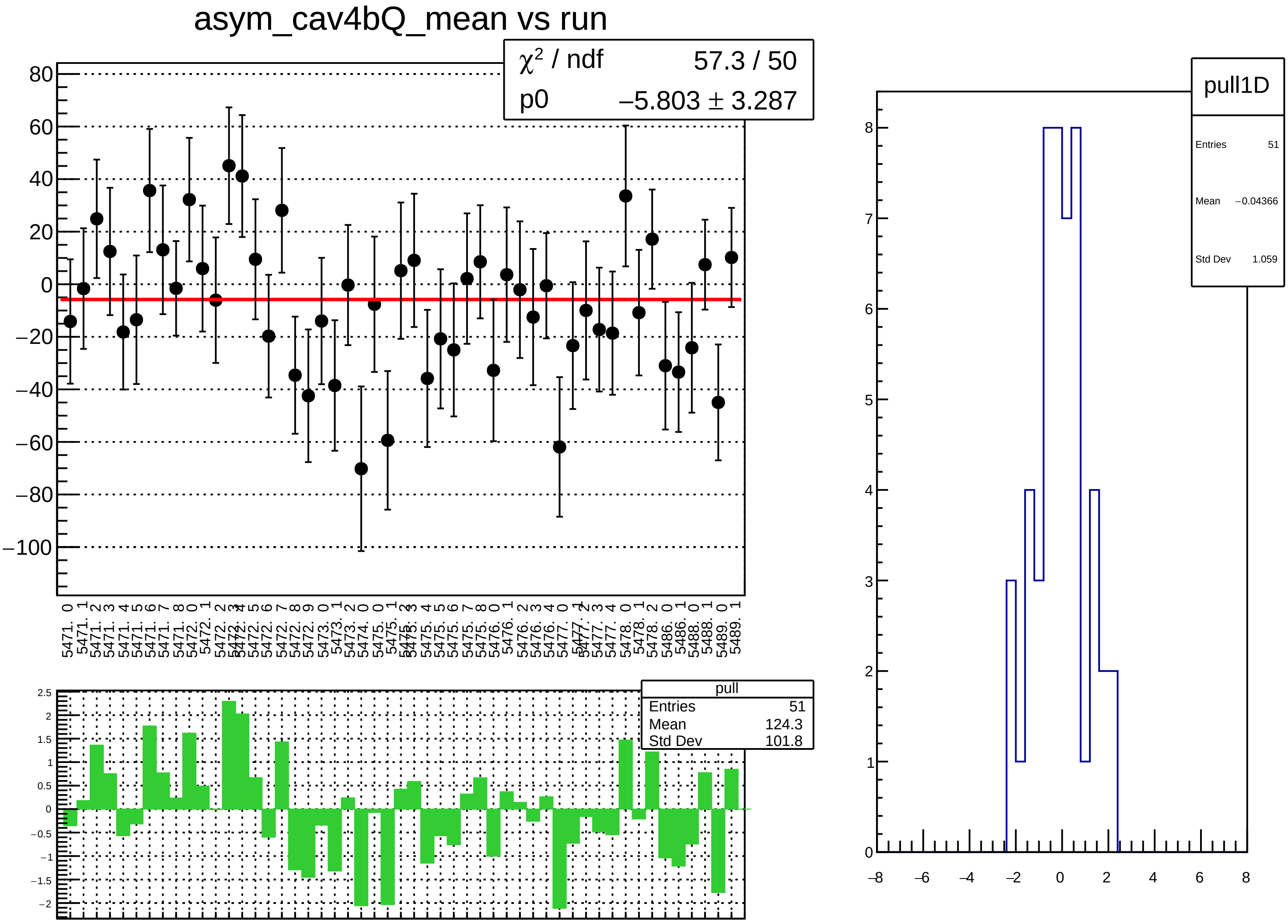
asym_bcm_dg_us_rms vs run
χ^2 / ndf 2.882e+04 / 50
p0 293.5 ± 0.3001
600
550
500
450
400
350
300
250
200



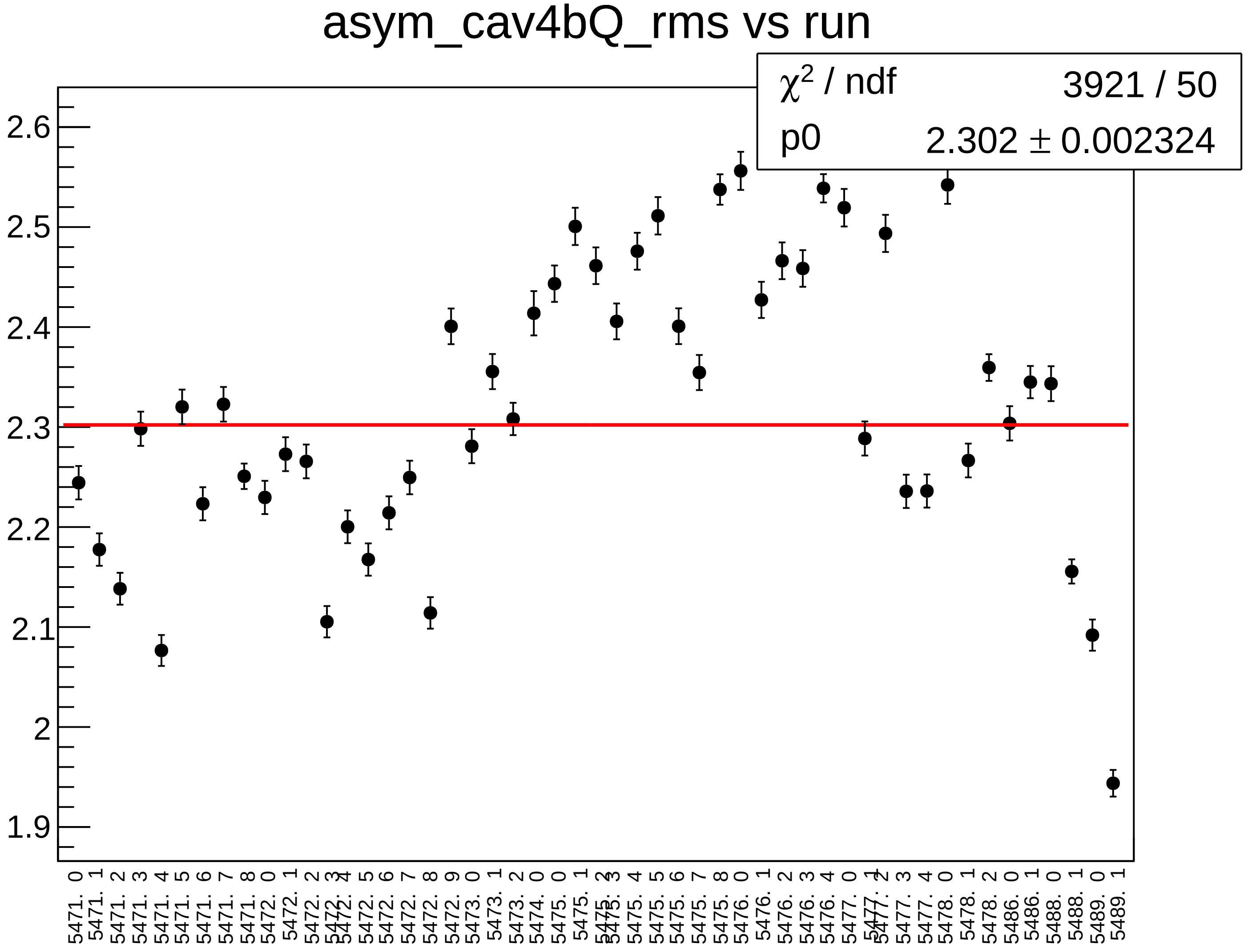
asym_bcm_dg_ds_mean vs run
χ^2 / ndf 11.4 / 50
p0 77.34 ± 424.8
pull
Entries 51
Mean 3.007
Std Dev 44.99
pull1D
Entries 51
Mean −0.01056
Std Dev 0.4727



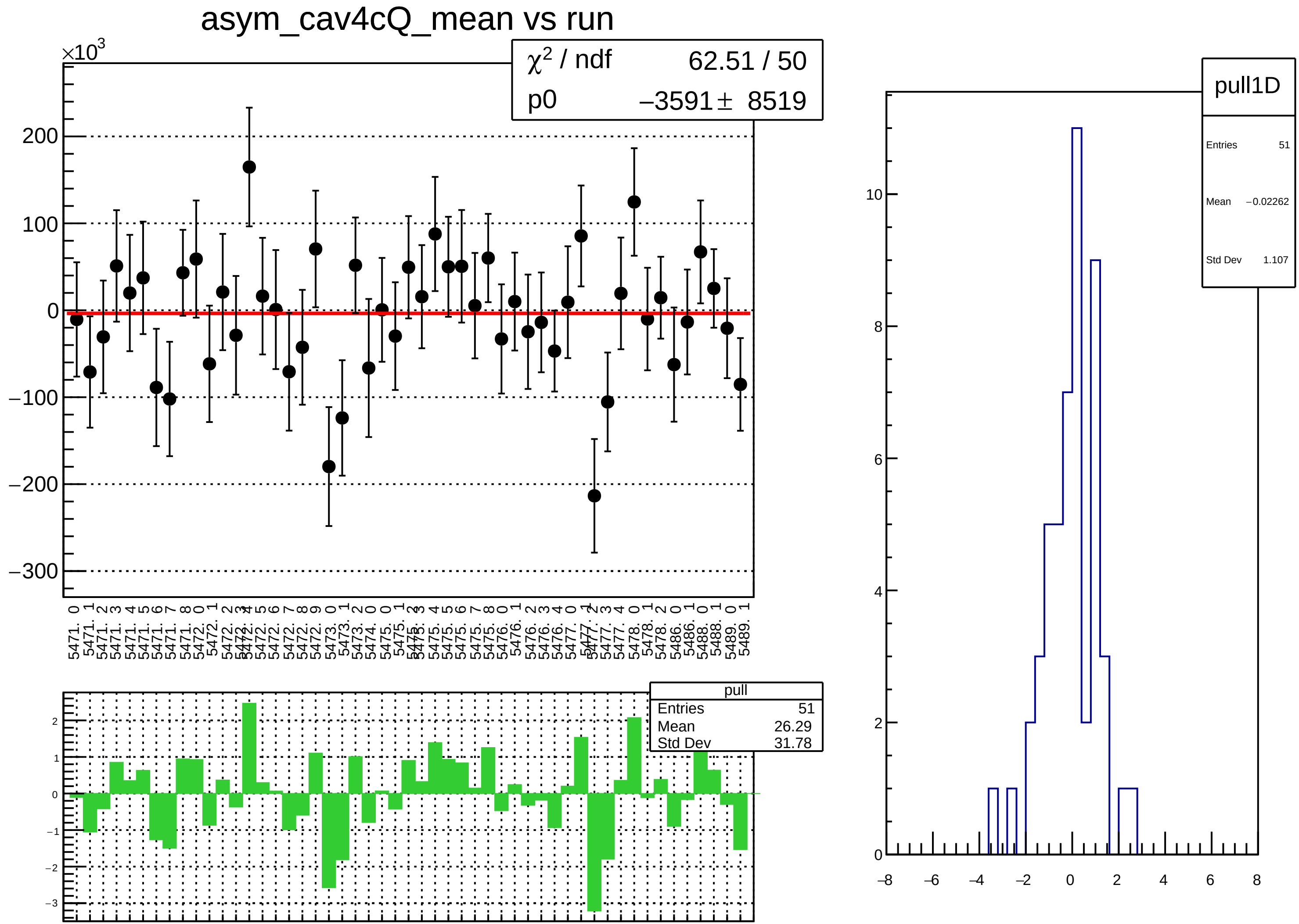
asym_bcm_dg_ds_rms vs run
χ² / ndf 2.951e+04 / 50
p0 293.6 ± 0.3003
600
550
500
450
400
350
300
250
200



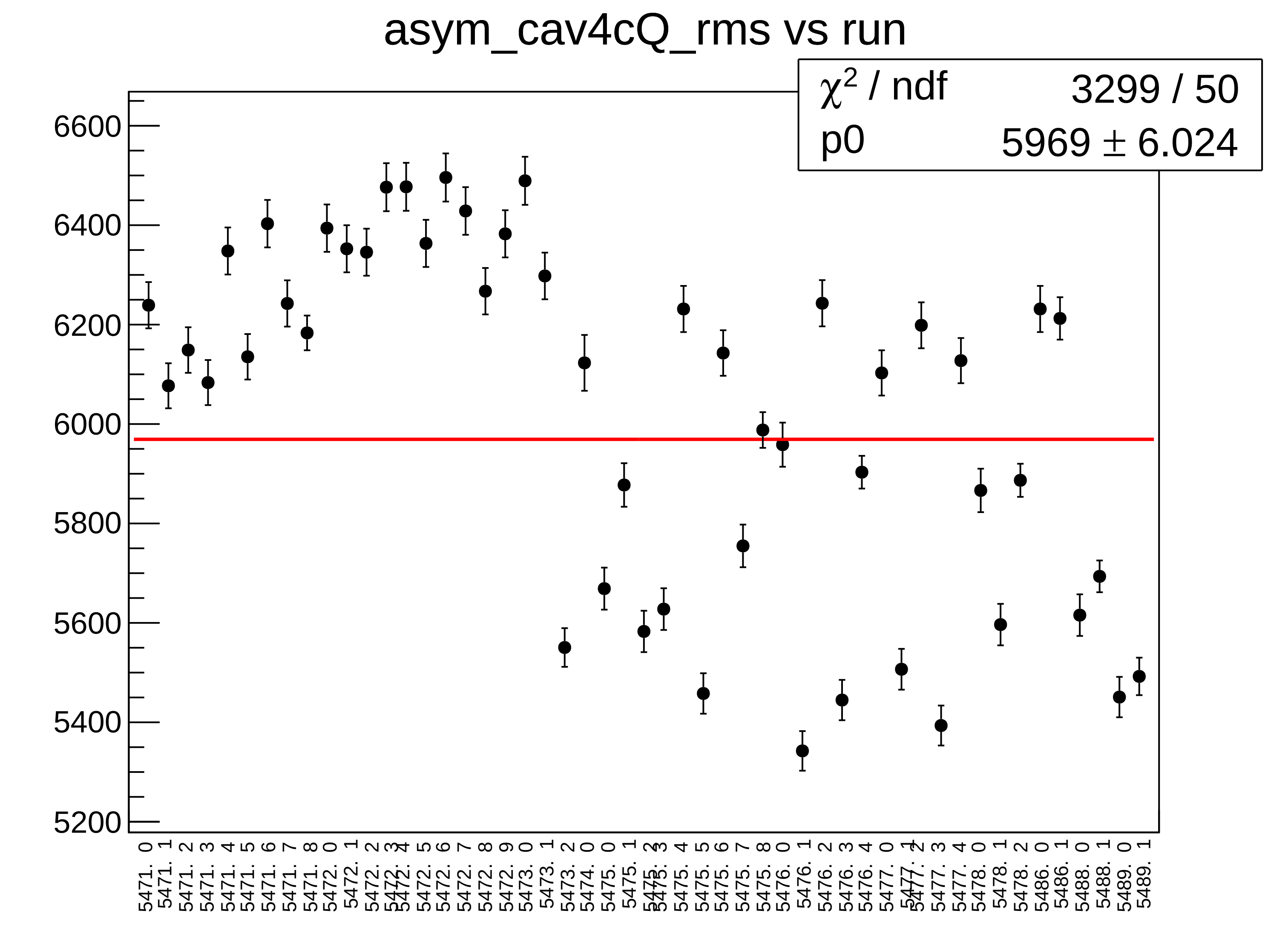
asym_cav4bQ_mean vs run
χ^2 / ndf 57.3 / 50
p0 −5.803 ± 3.287
pull
Entries 51
Mean 124.3
Std Dev 101.8
pull1D
Entries 51
Mean −0.04366
Std Dev 1.059



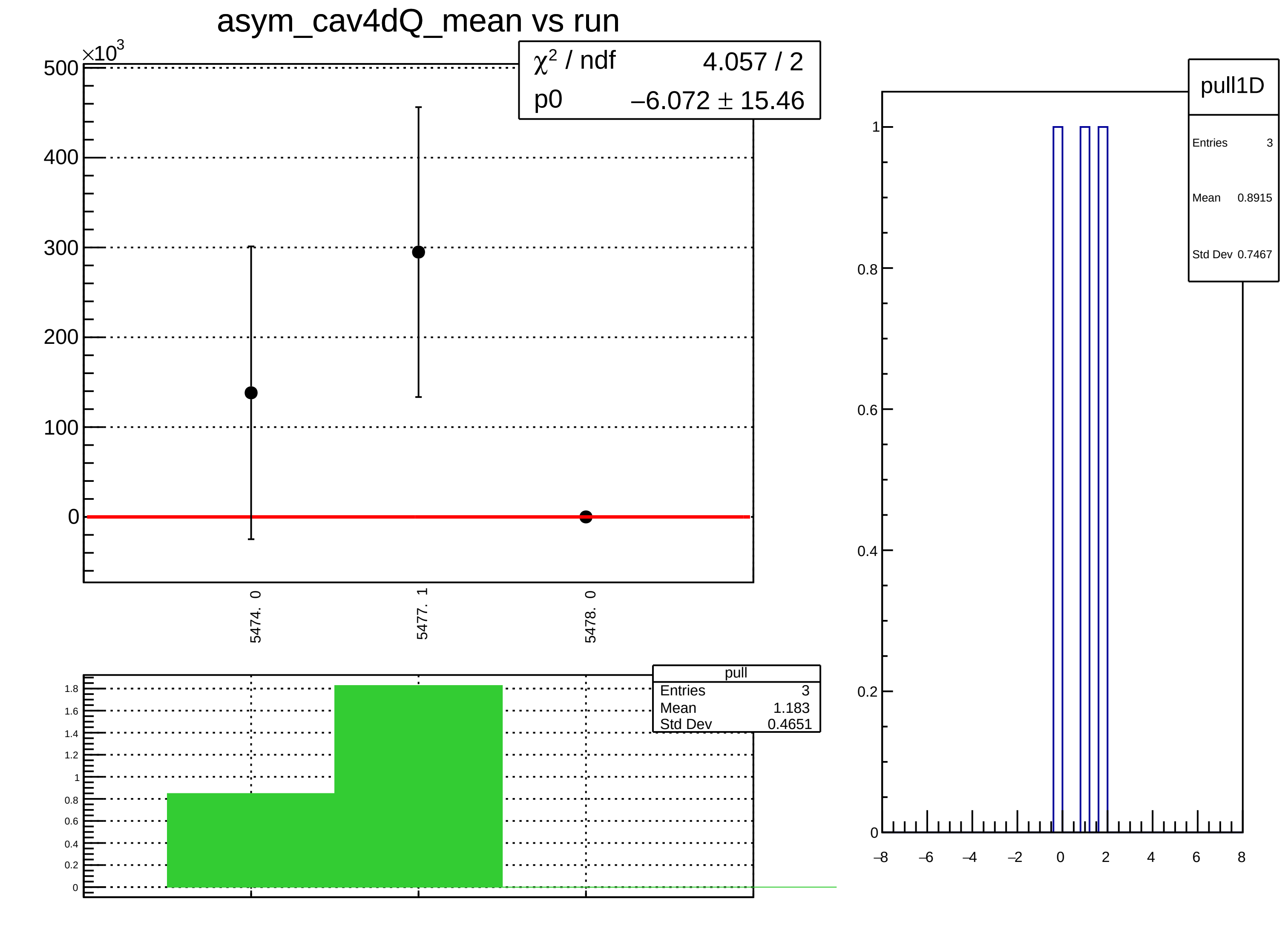
asym_cav4bQ_rms vs run
χ^2 / ndf 3921 / 50
p0 2.302 ± 0.002324
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



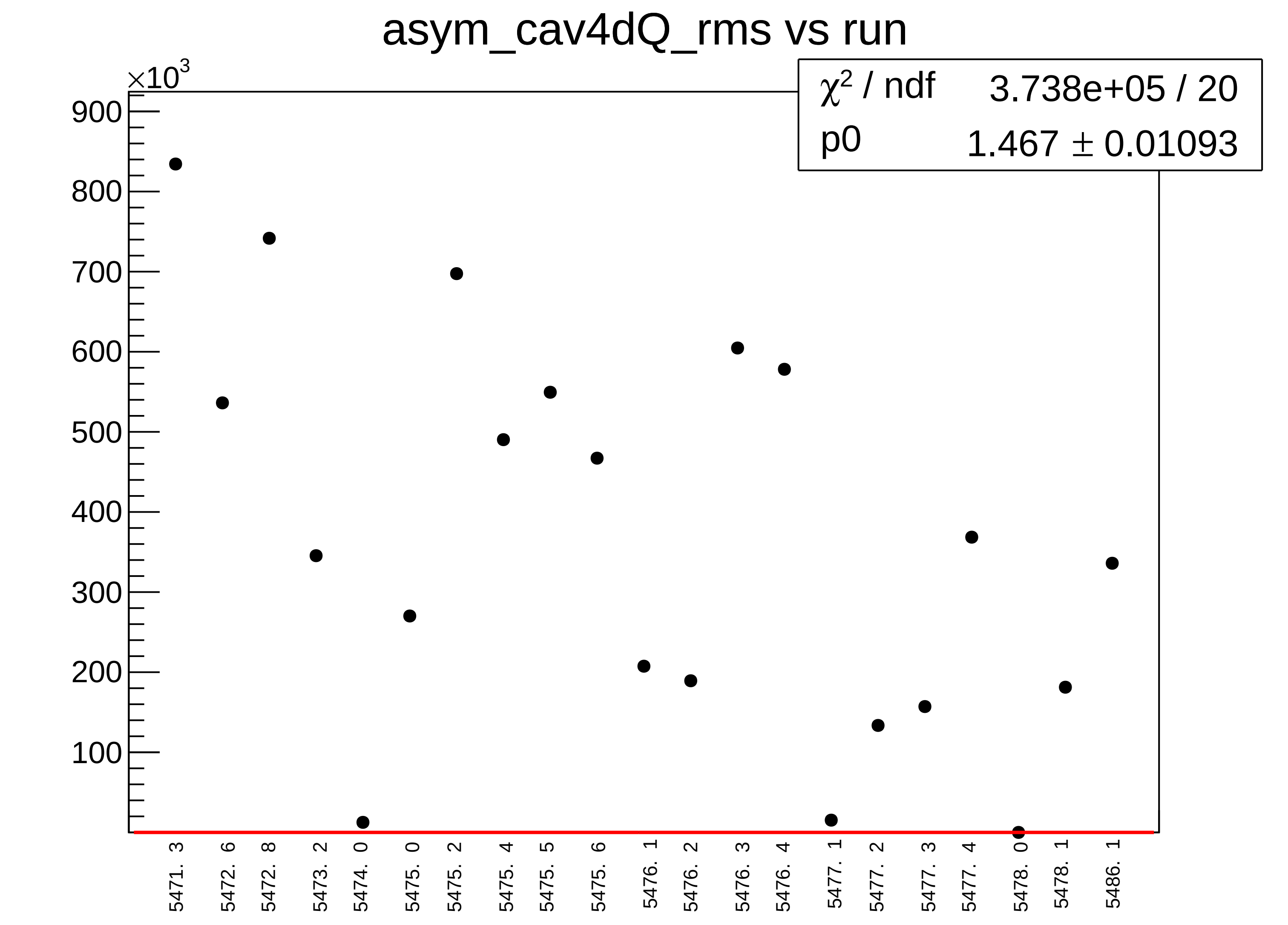
asym_cav4cQ_mean vs run
×10^3
χ2 / ndf 62.51 / 50
p0 −3591 ± 8519
pull
Entries 51
Mean 26.29
Std Dev 31.78
pull1D
Entries 51
Mean −0.02262
Std Dev 1.107

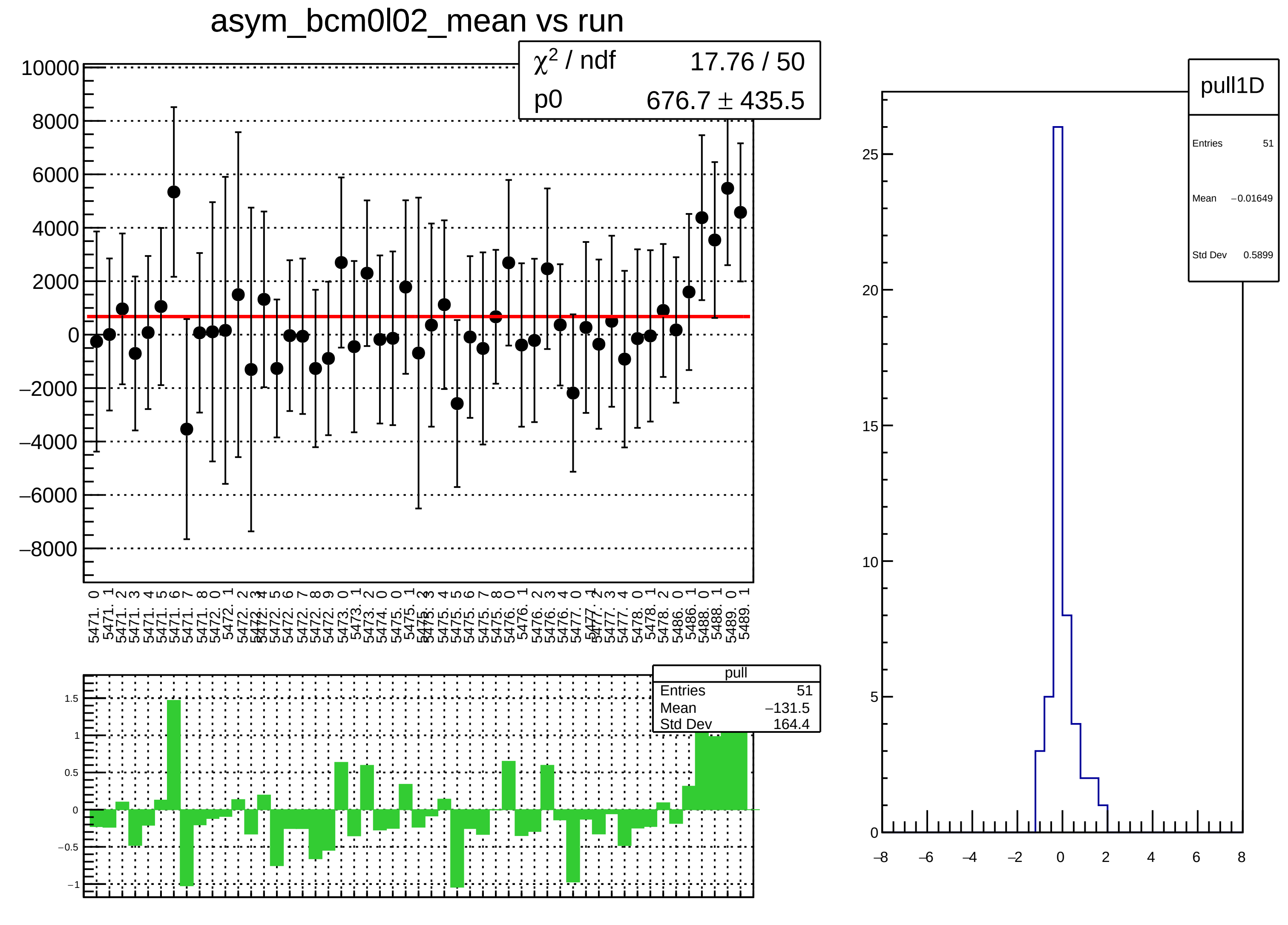


asym_cav4cQ_rms vs run
χ^2 / ndf 3299 / 50
p0 5969 ± 6.024
6600
6400
6200
6000
5800
5600
5400
5200

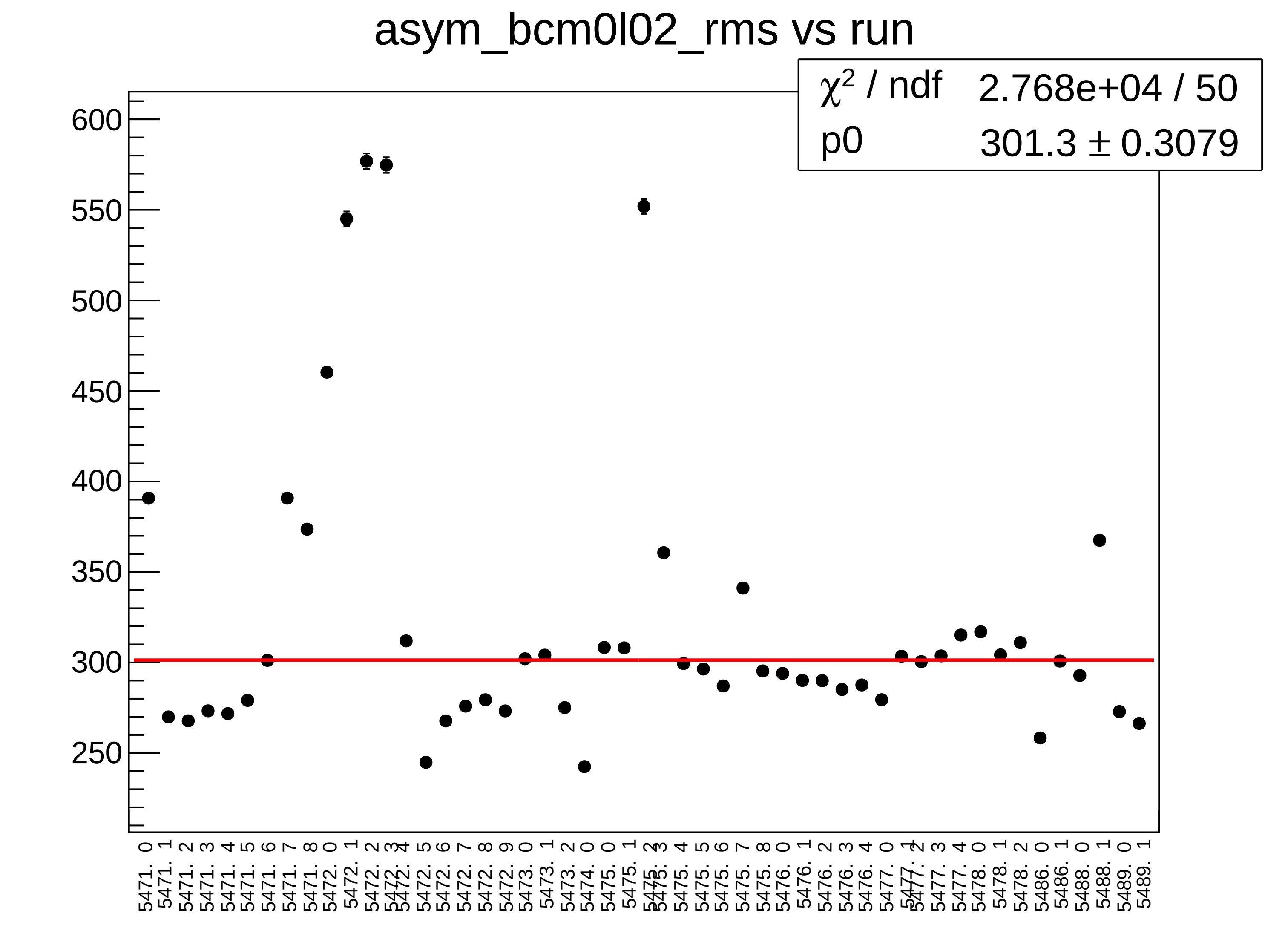


asym_cav4dQ_mean vs run
$\times10^3$
χ^2 / ndf 4.057 / 2
p0 −6.072 ± 15.46
500
400
300
200
100
0
5474. 0
5477. 1
5478. 0
pull
Entries 3
Mean 1.183
Std Dev 0.4651
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 3
Mean 0.8915
Std Dev 0.7467
–8
–6
–4
–2
0
2
4
6
8

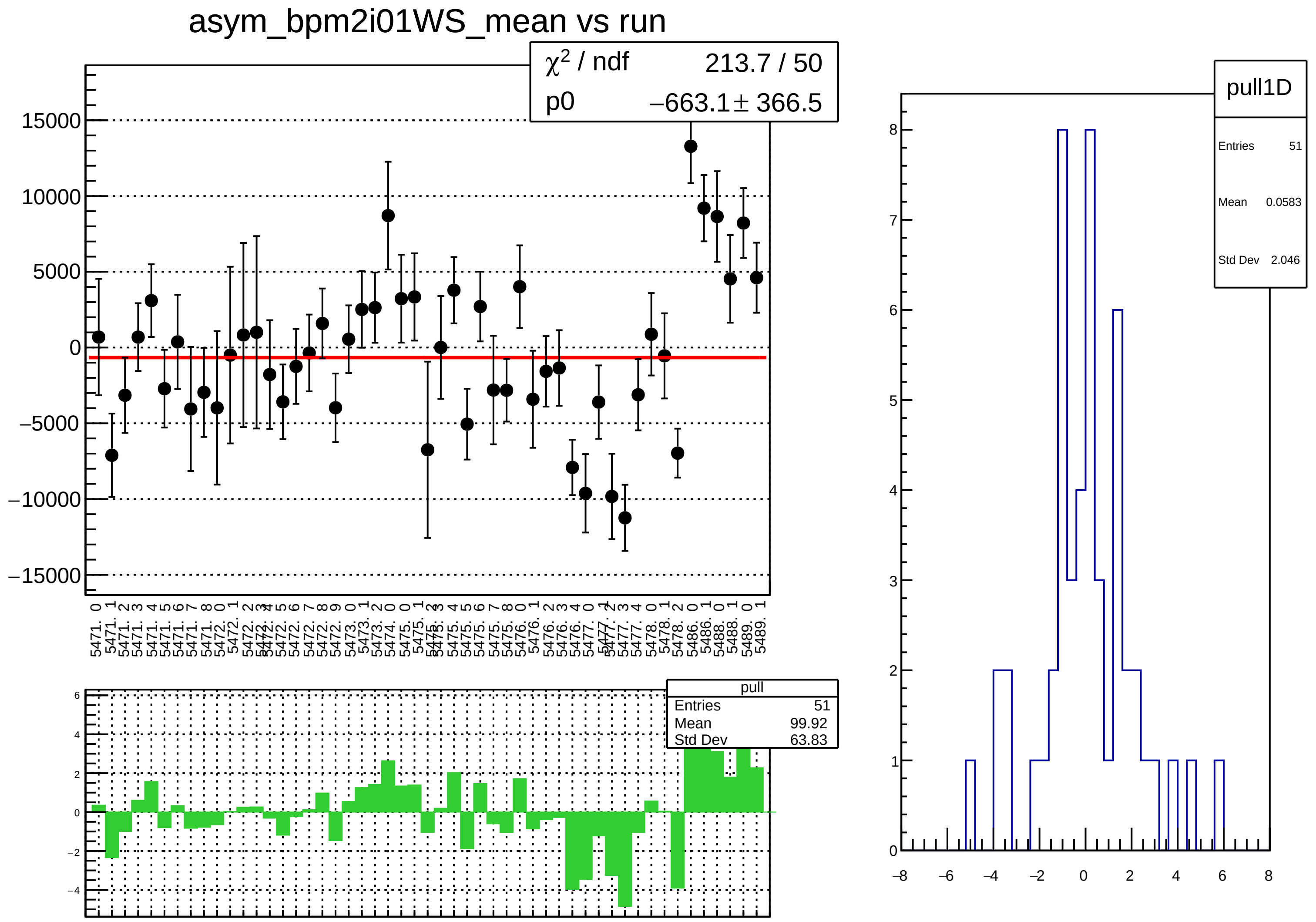

asym_cav4dQ_rms vs run
×10^3
χ2 / ndf 3.738e+05 / 20
p0 1.467 ± 0.01093
900
800
700
600
500
400
300
200
100
5471. 3
5472. 6
5472. 8
5473. 2
5474. 0
5475. 0
5475. 2
5475. 4
5475. 5
5475. 6
5476. 1
5476. 2
5476. 3
5476. 4
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5486. 1



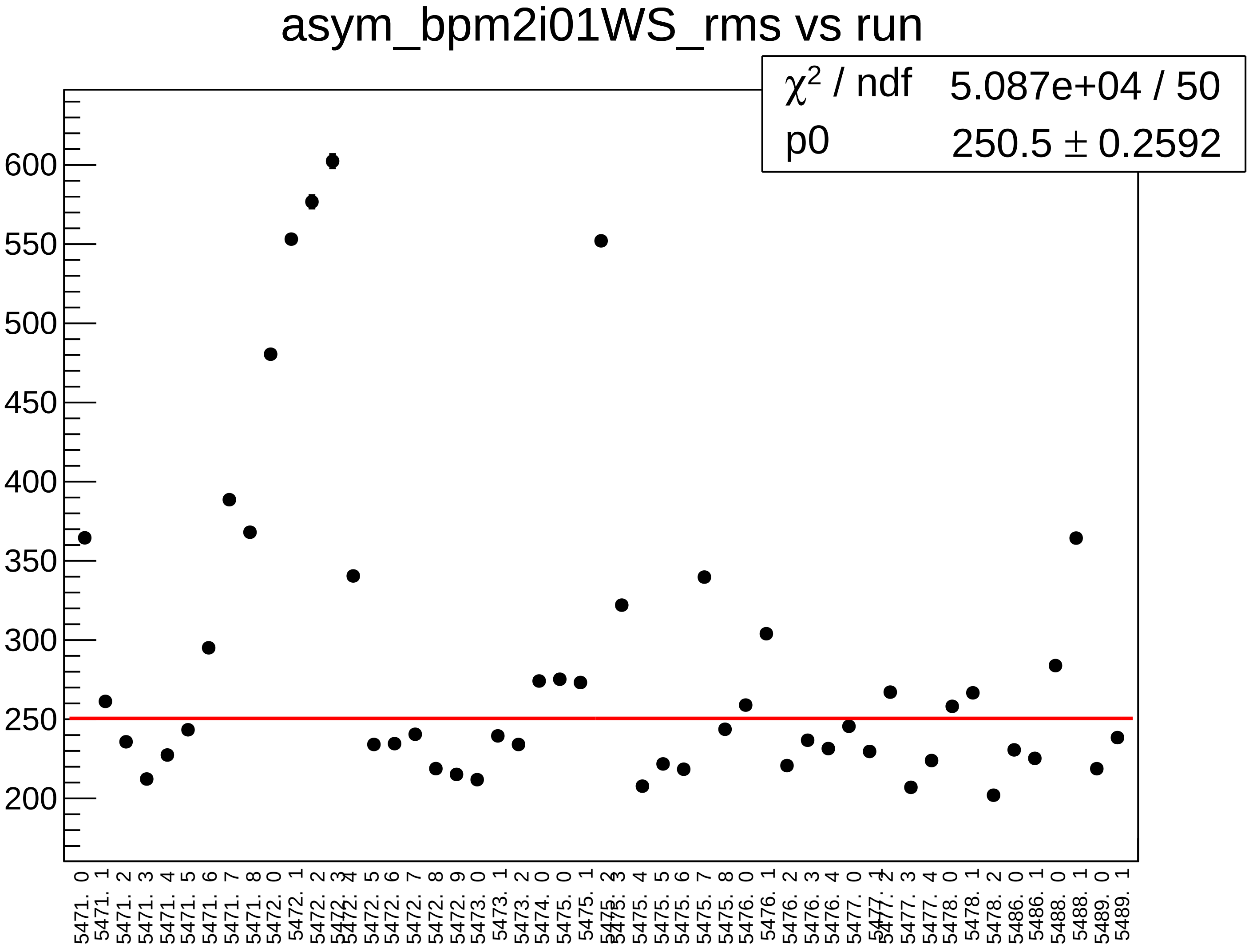
asym_bcm0l02_mean vs run
χ^2 / ndf 17.76 / 50
p0 676.7 ± 435.5
pull
Entries 51
Mean −131.5
Std Dev 164.4
pull1D
Entries 51
Mean −0.01649
Std Dev 0.5899



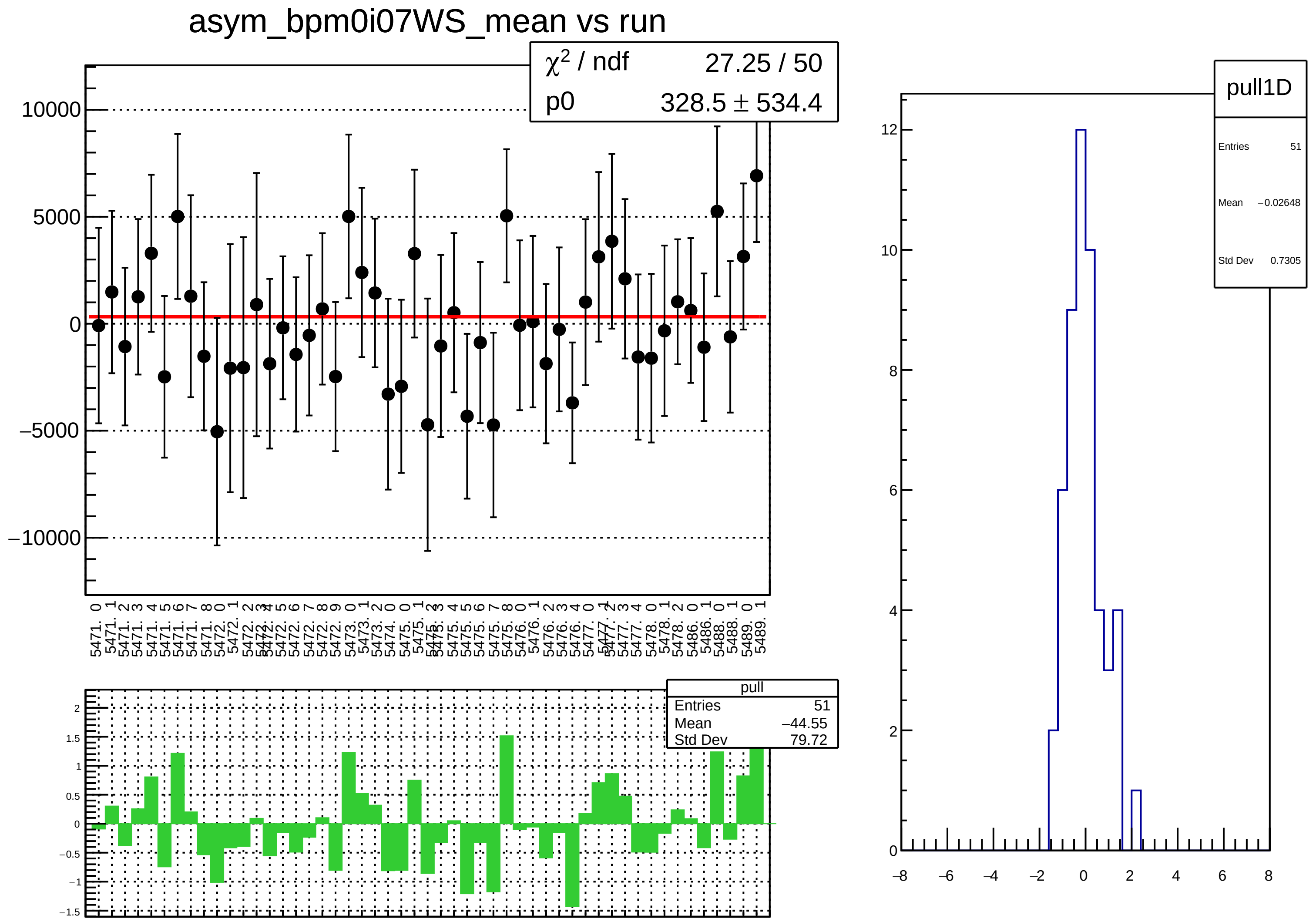
asym_bcm0l02_rms vs run
χ^2 / ndf 2.768e+04 / 50
p0 301.3 ± 0.3079
600
550
500
450
400
350
300
250



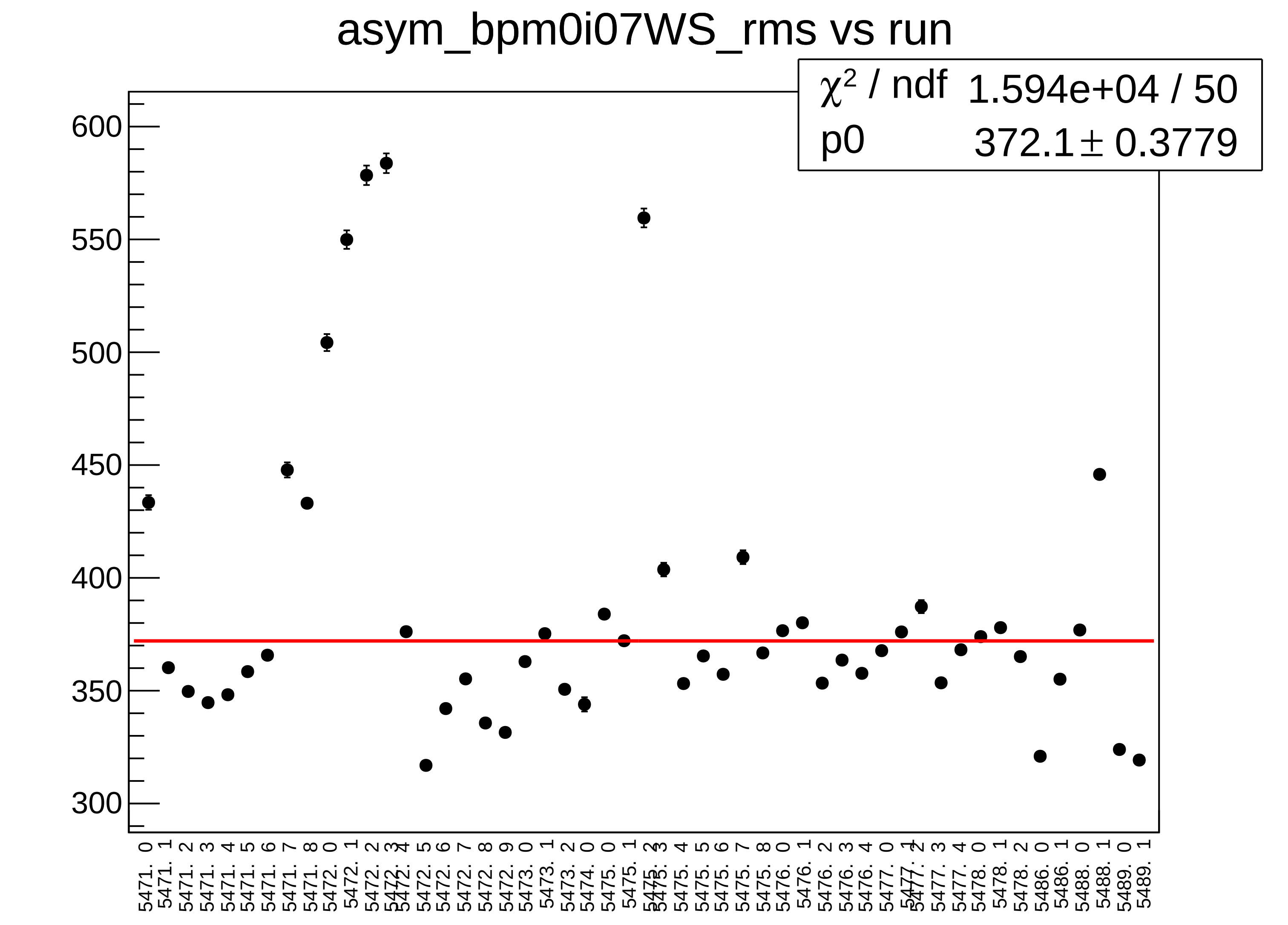
asym_bpm2i01WS_mean vs run
χ2 / ndf 213.7 / 50
p0 −663.1 ± 366.5
pull
Entries 51
Mean 99.92
Std Dev 63.83
pull1D
Entries 51
Mean 0.0583
Std Dev 2.046



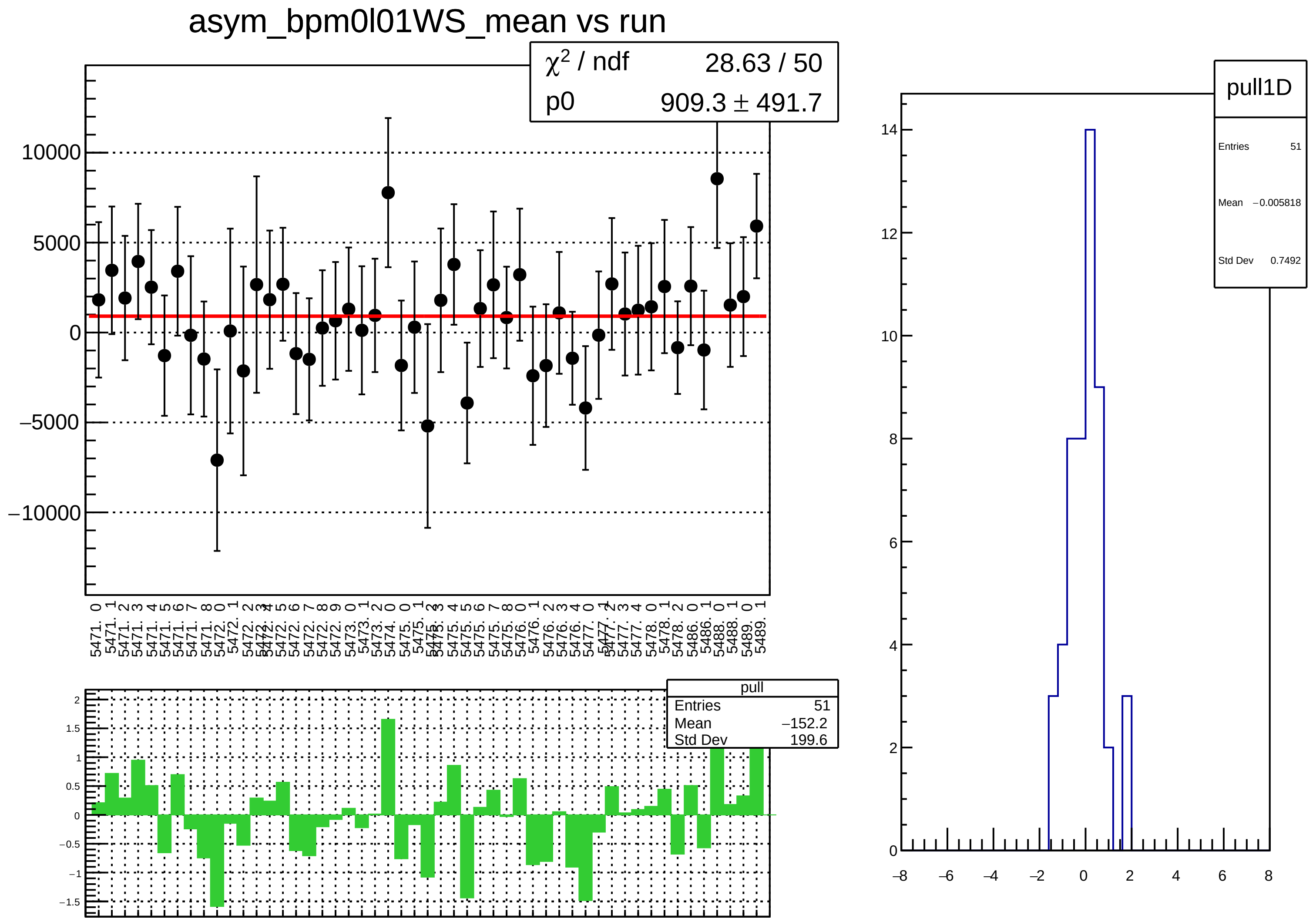
asym_bpm2i01WS_rms vs run
χ^2 / ndf 5.087e+04 / 50
p0 250.5 ± 0.2592
600
550
500
450
400
350
300
250
200



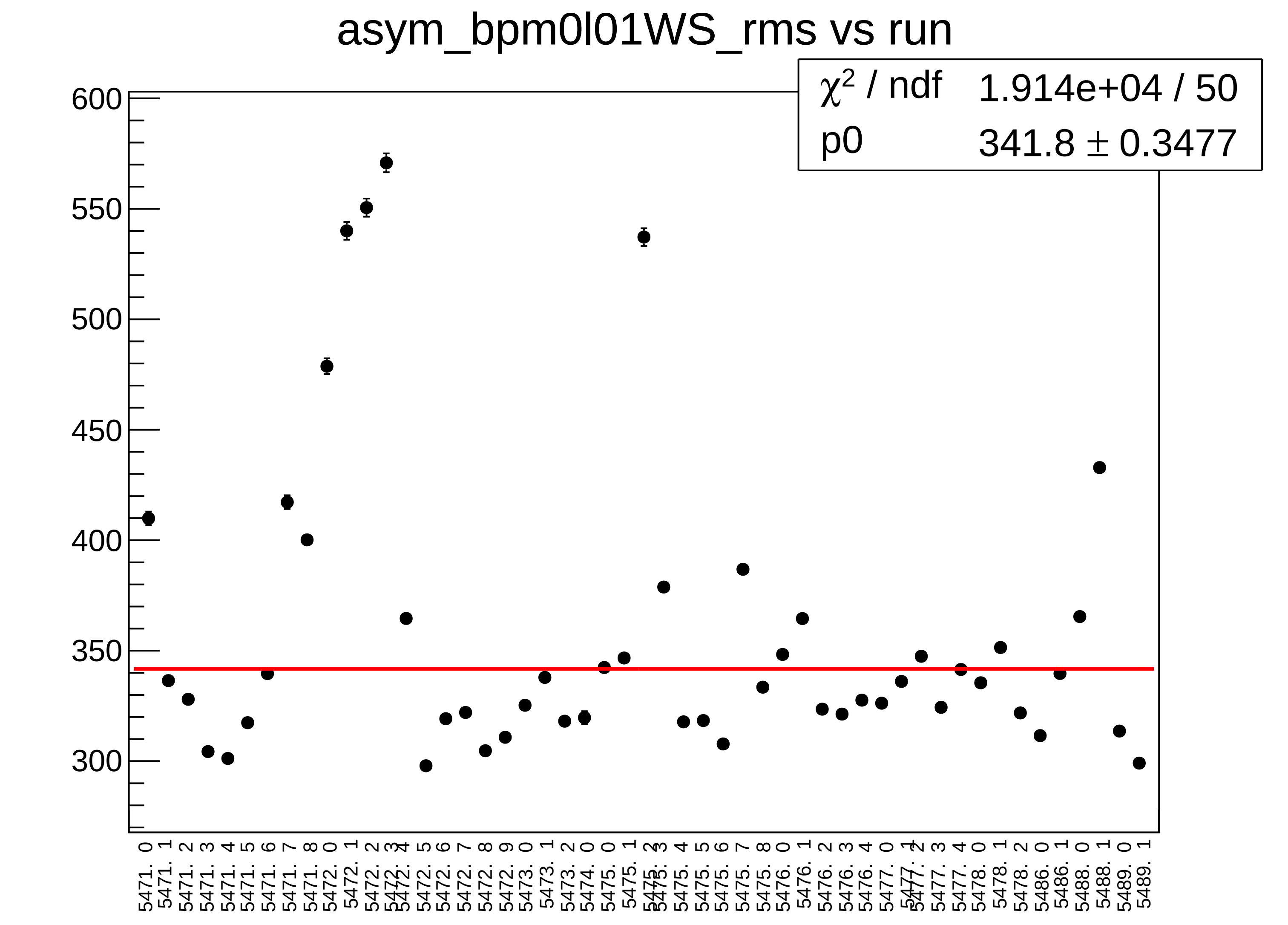
asym_bpm0i07WS_mean vs run
χ2 / ndf 27.25 / 50
p0 328.5 ± 534.4
pull
Entries 51
Mean −44.55
Std Dev 79.72
pull1D
Entries 51
Mean −0.02648
Std Dev 0.7305



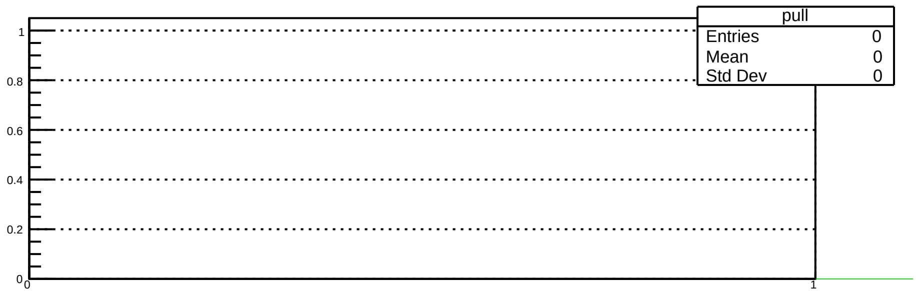
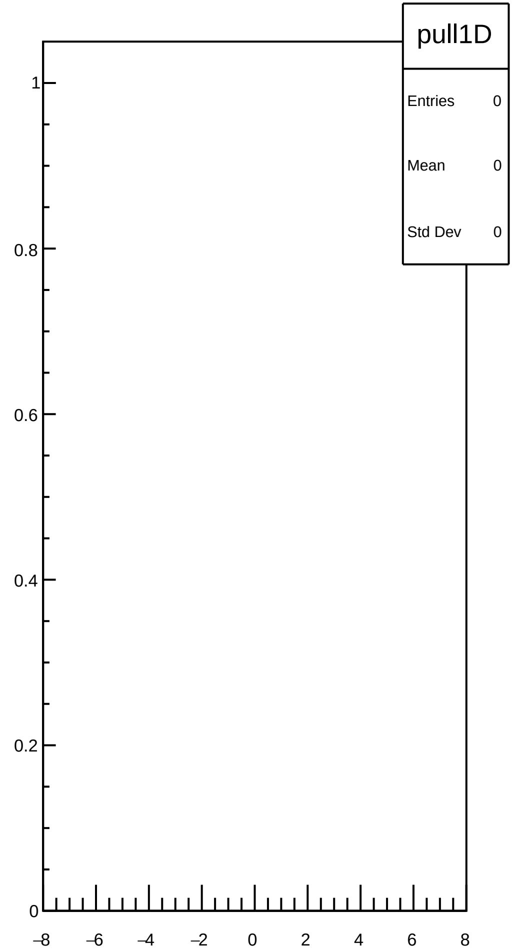
asym_bpm0i07WS_rms vs run
χ2 / ndf 1.594e+04 / 50
p0 372.1 ± 0.3779
600
550
500
450
400
350
300
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1

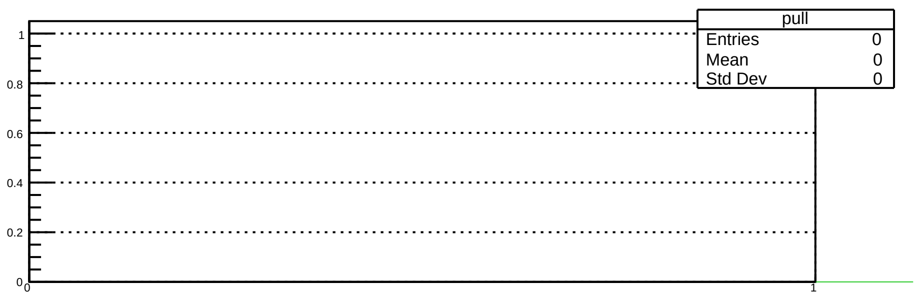
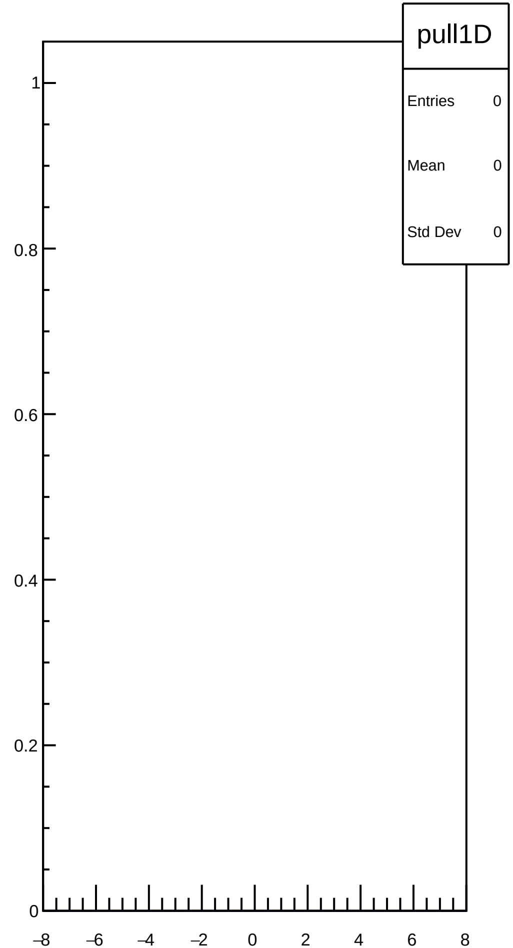


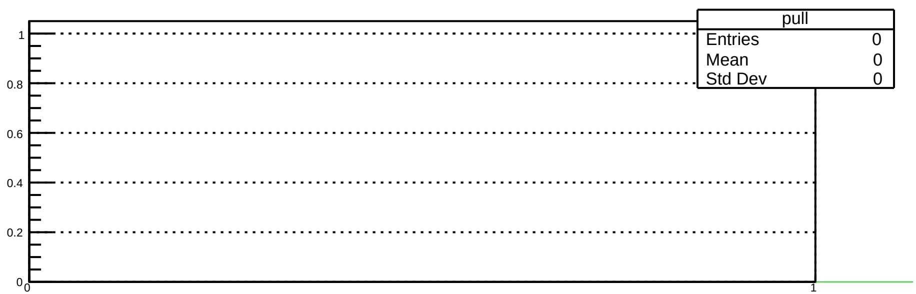
asym_bpm0l01WS_mean vs run
χ2 / ndf 28.63 / 50
p0 909.3 ± 491.7
10000
5000
0
−5000
−10000
pull
Entries 51
Mean −152.2
Std Dev 199.6
pull1D
Entries 51
Mean −0.005818
Std Dev 0.7492



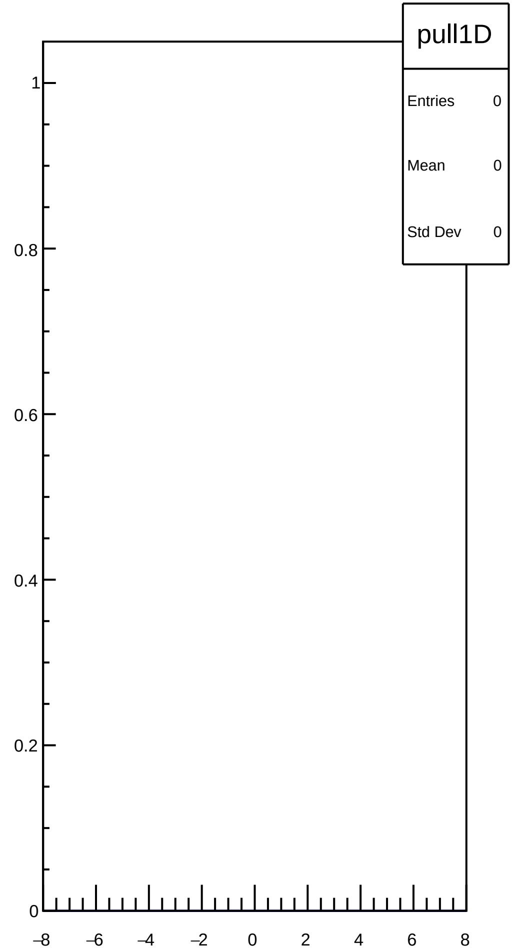
asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.914e+04 / 50
p0 341.8 ± 0.3477
600
550
500
450
400
350
300


pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

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

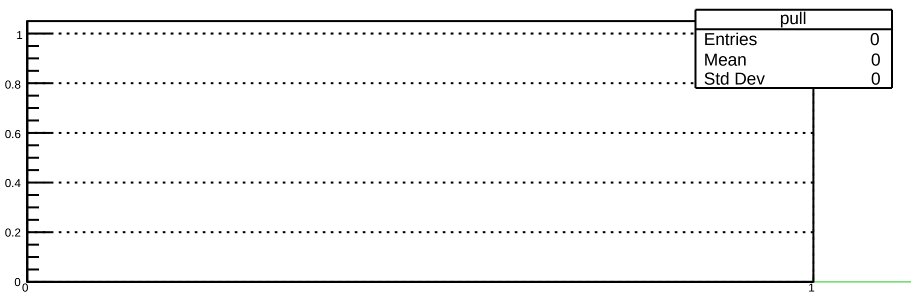

pull
Entries 0
Mean 0
Std Dev 0

pull1D
Entries 0
Mean 0
Std Dev 0

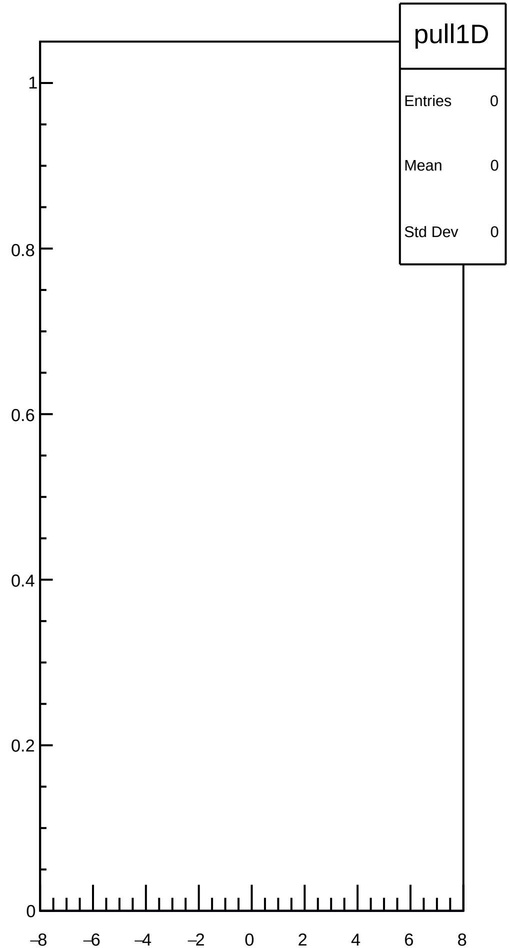


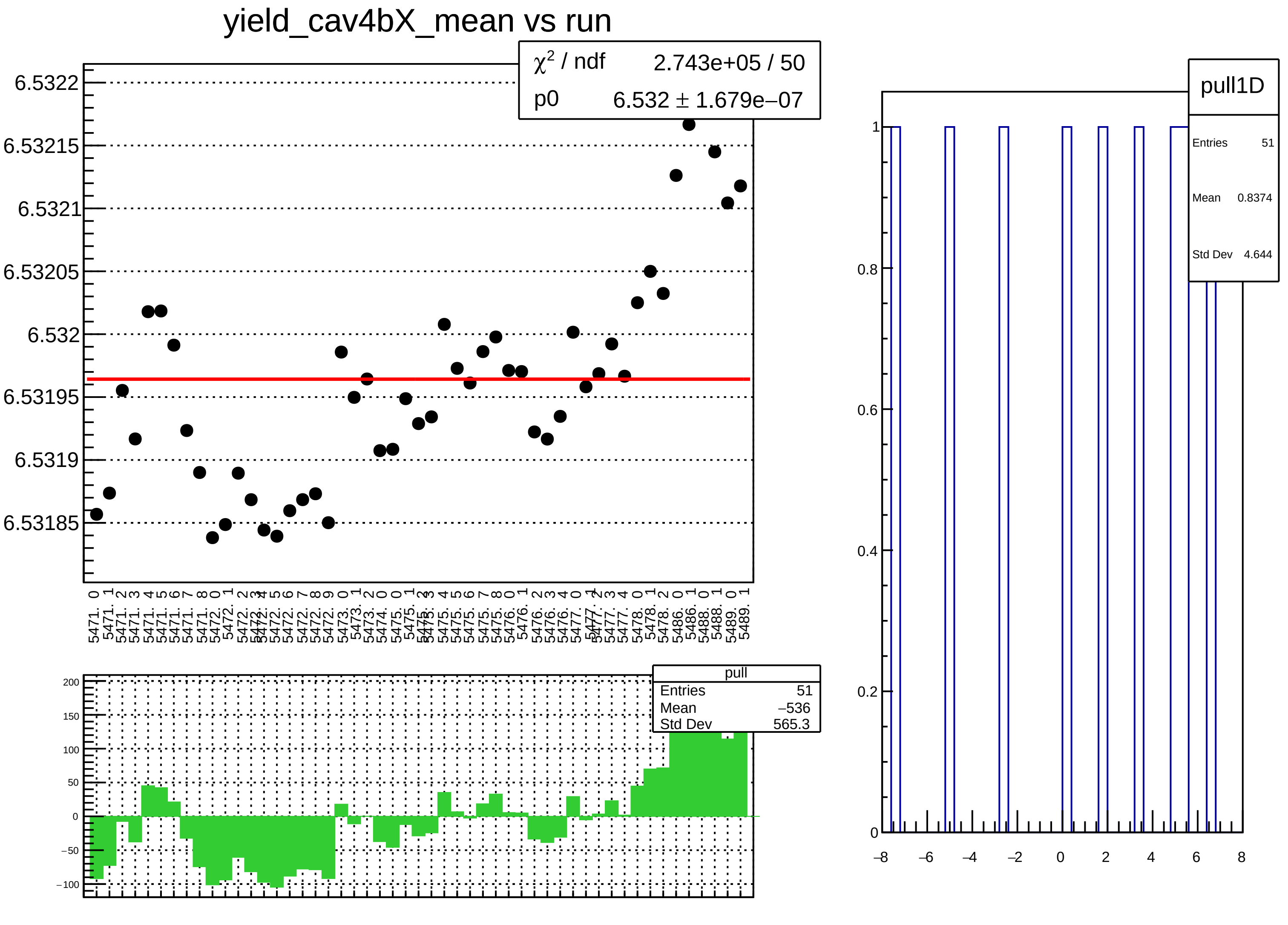
pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1



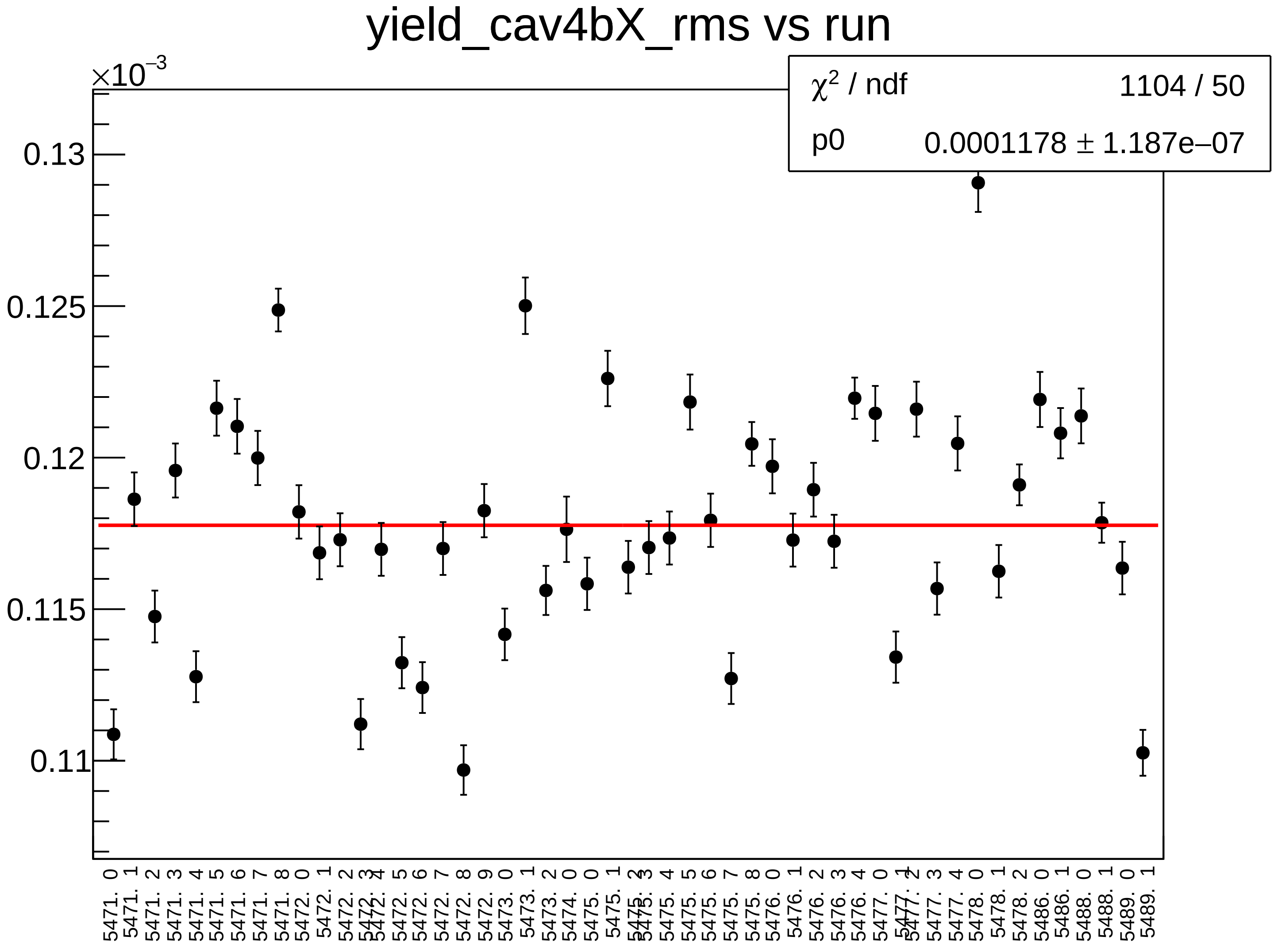
pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

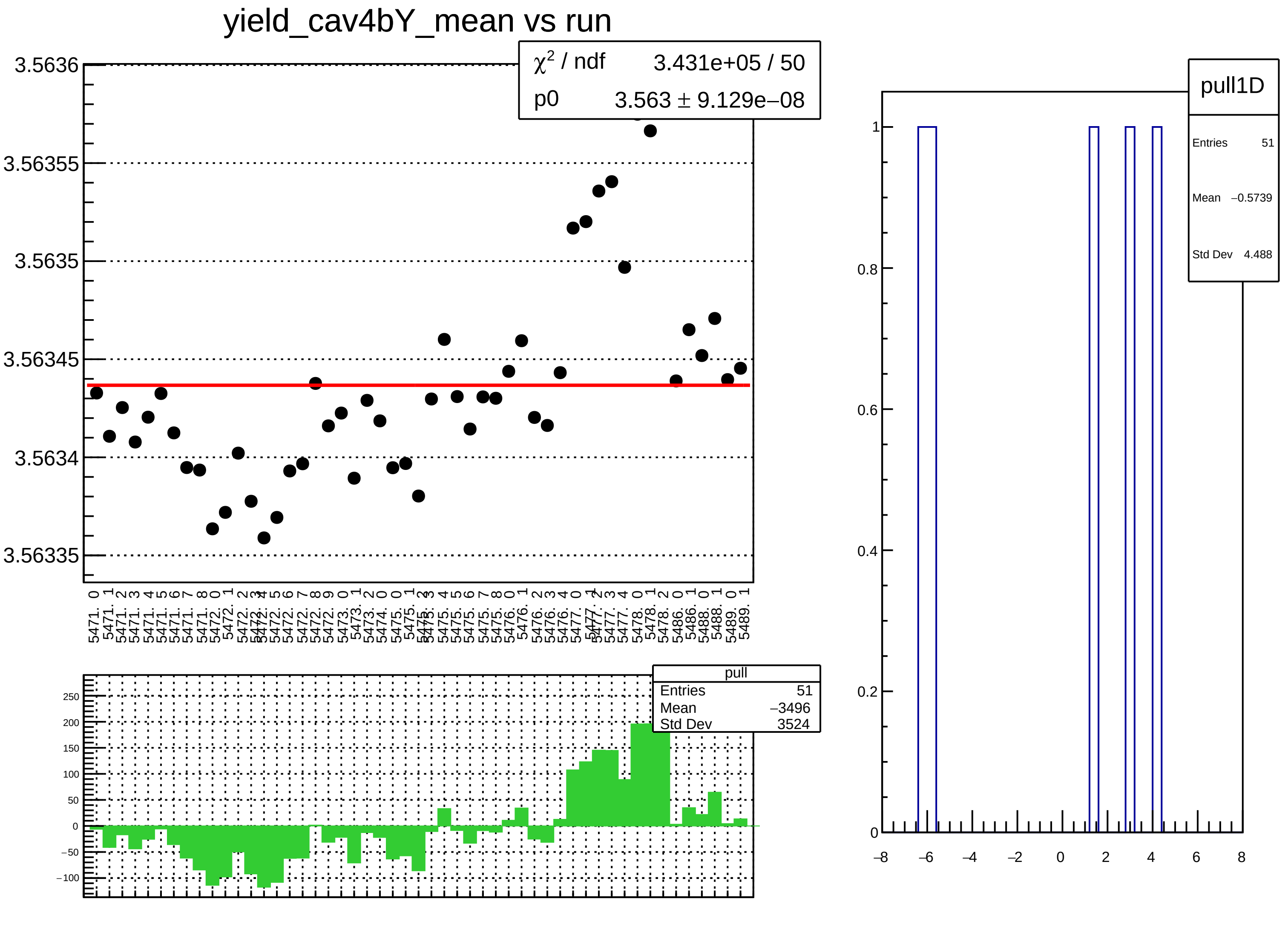

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8



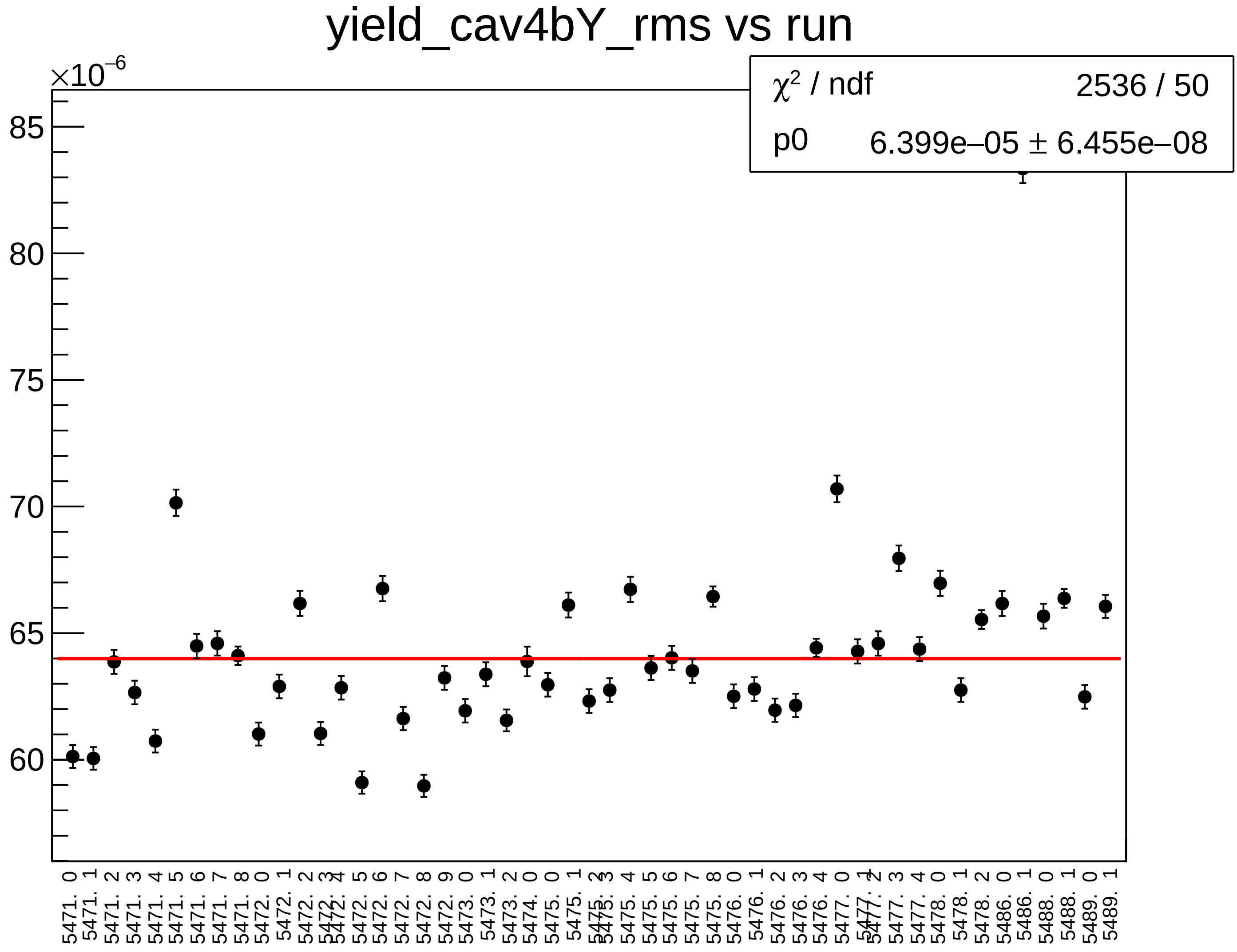
yield_cav4bX_mean vs run
χ^2 / ndf 2.743e+05 / 50
p0 6.532 ± 1.679e−07
pull
Entries 51
Mean −536
Std Dev 565.3
pull1D
Entries 51
Mean 0.8374
Std Dev 4.644



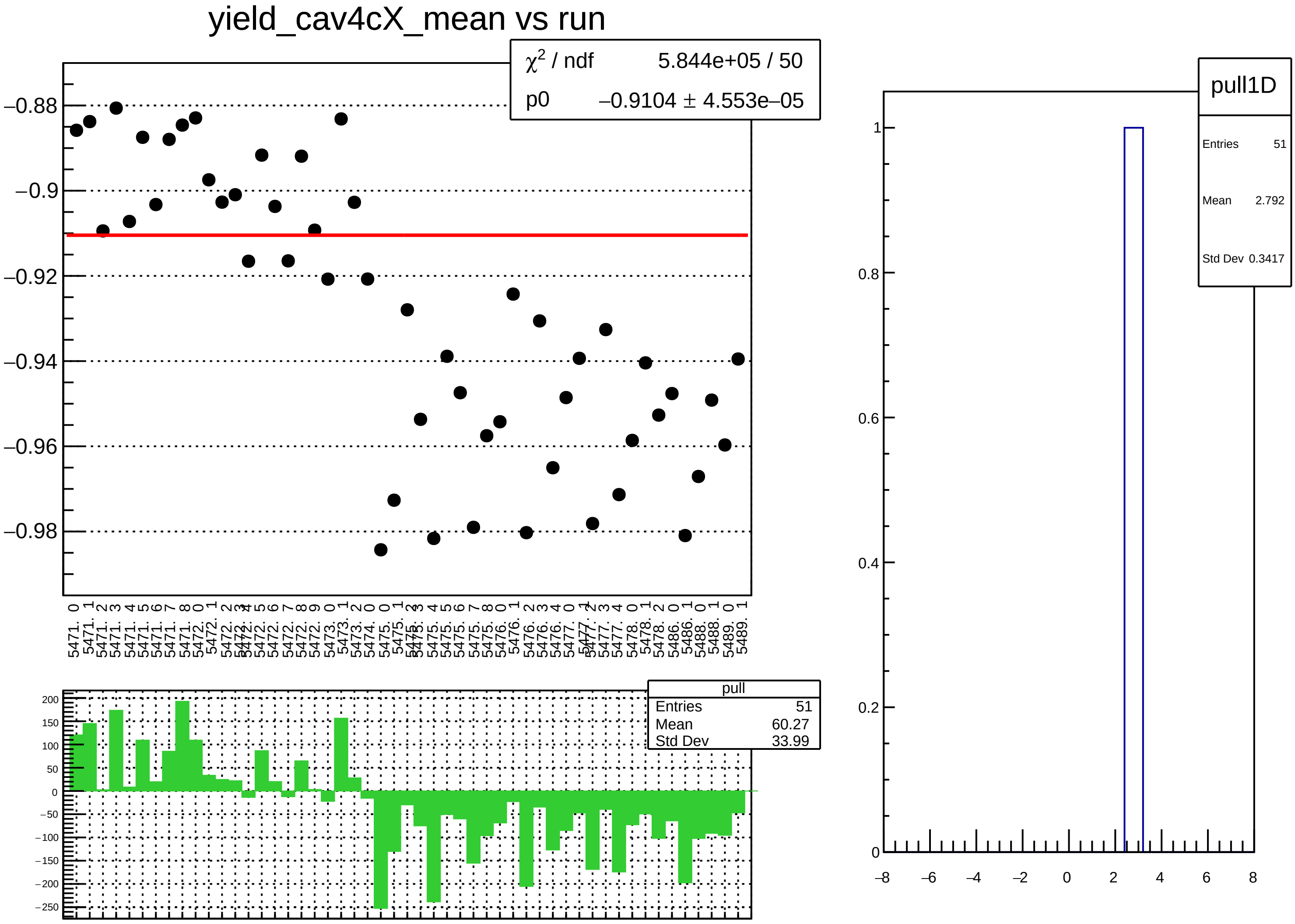
yield_cav4bX_rms vs run
×10^-3
χ2 / ndf 1104 / 50
p0 0.0001178 ± 1.187e−07
0.13
0.125
0.12
0.115
0.11



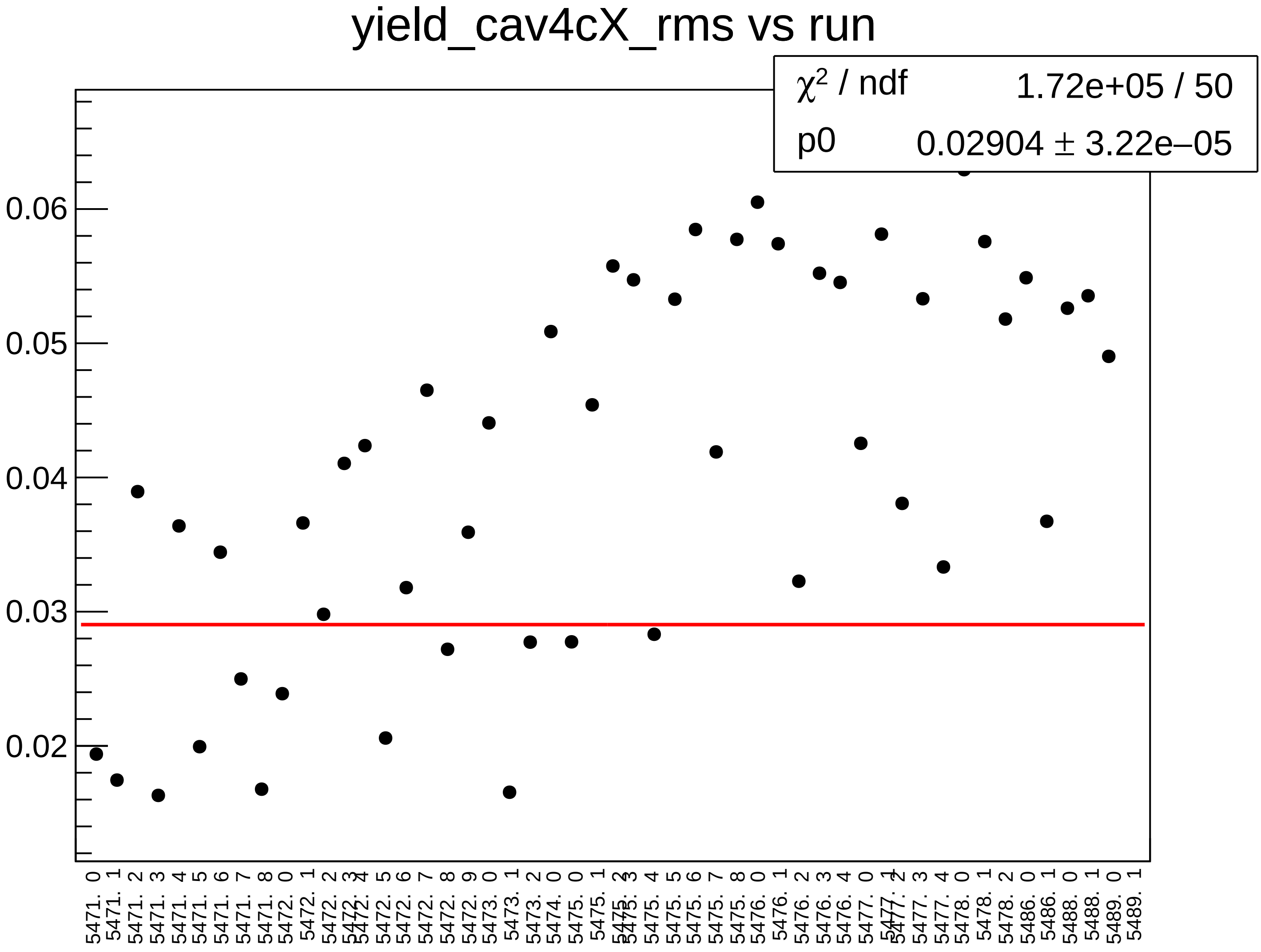
yield_cav4bY_mean vs run
χ2 / ndf 3.431e+05 / 50
p0 3.563 ± 9.129e−08
pull
Entries 51
Mean −3496
Std Dev 3524
pull1D
Entries 51
Mean −0.5739
Std Dev 4.488



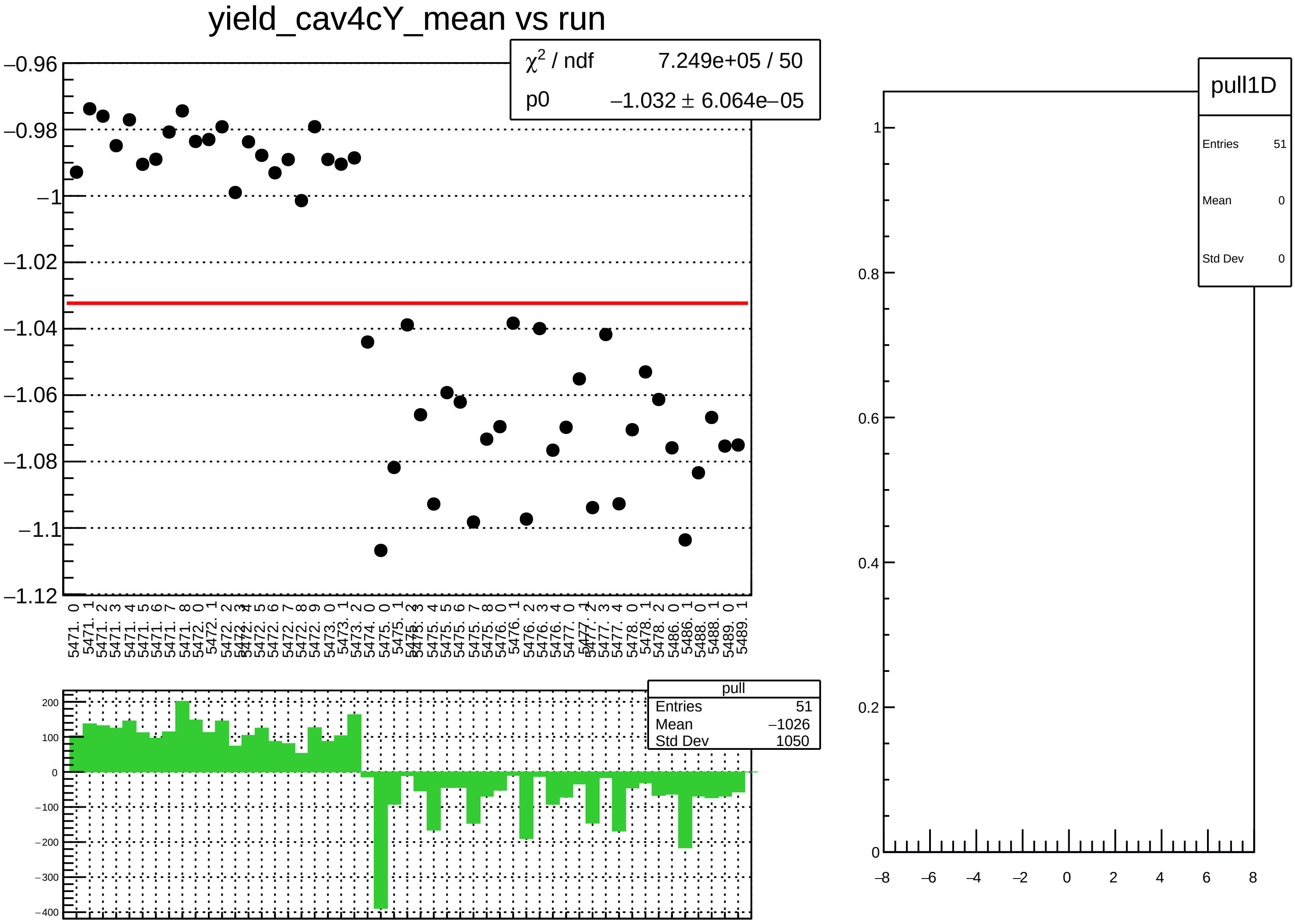
yield_cav4bY_rms vs run
×10⁻⁶
χ^2 / ndf 2536 / 50
p0 6.399e−05 ± 6.455e−08
85
80
75
70
65
60



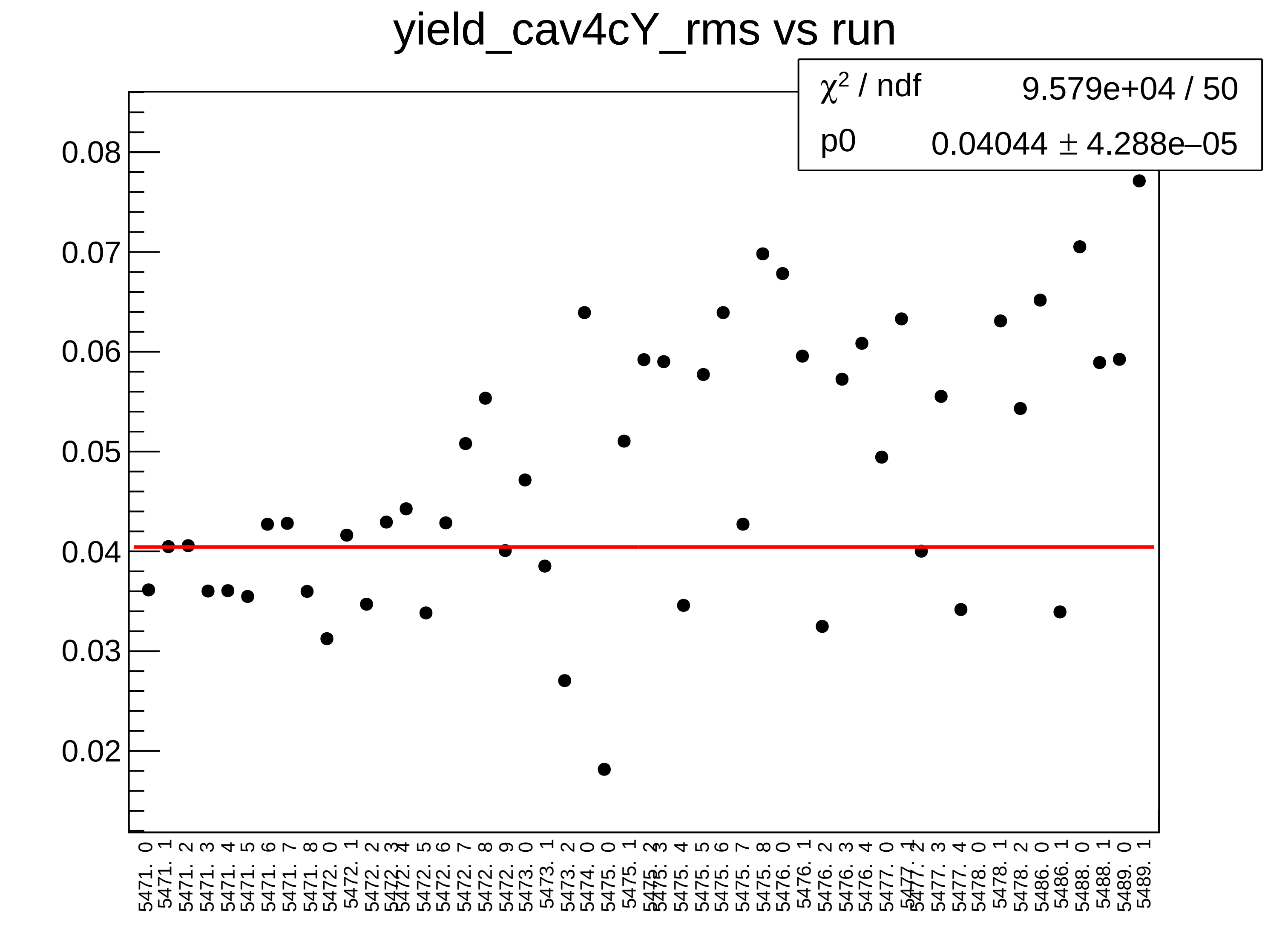
yield_cav4cX_mean vs run
χ^2 / ndf 5.844e+05 / 50
p0 −0.9104 ± 4.553e−05
pull
Entries 51
Mean 60.27
Std Dev 33.99
pull1D
Entries 51
Mean 2.792
Std Dev 0.3417



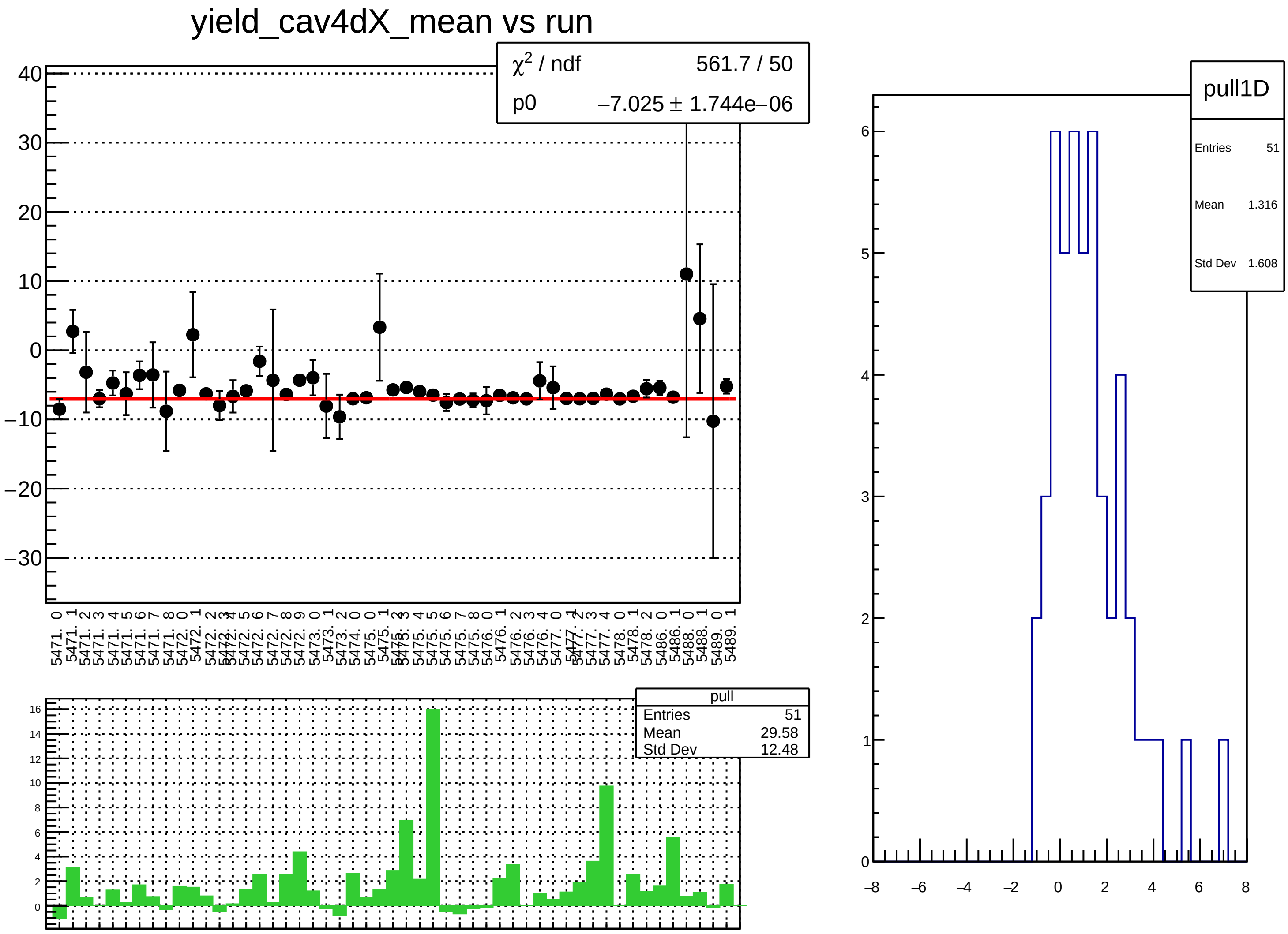
yield_cav4cX_rms vs run
χ2 / ndf 1.72e+05 / 50
p0 0.02904 ± 3.22e−05
0.06
0.05
0.04
0.03
0.02



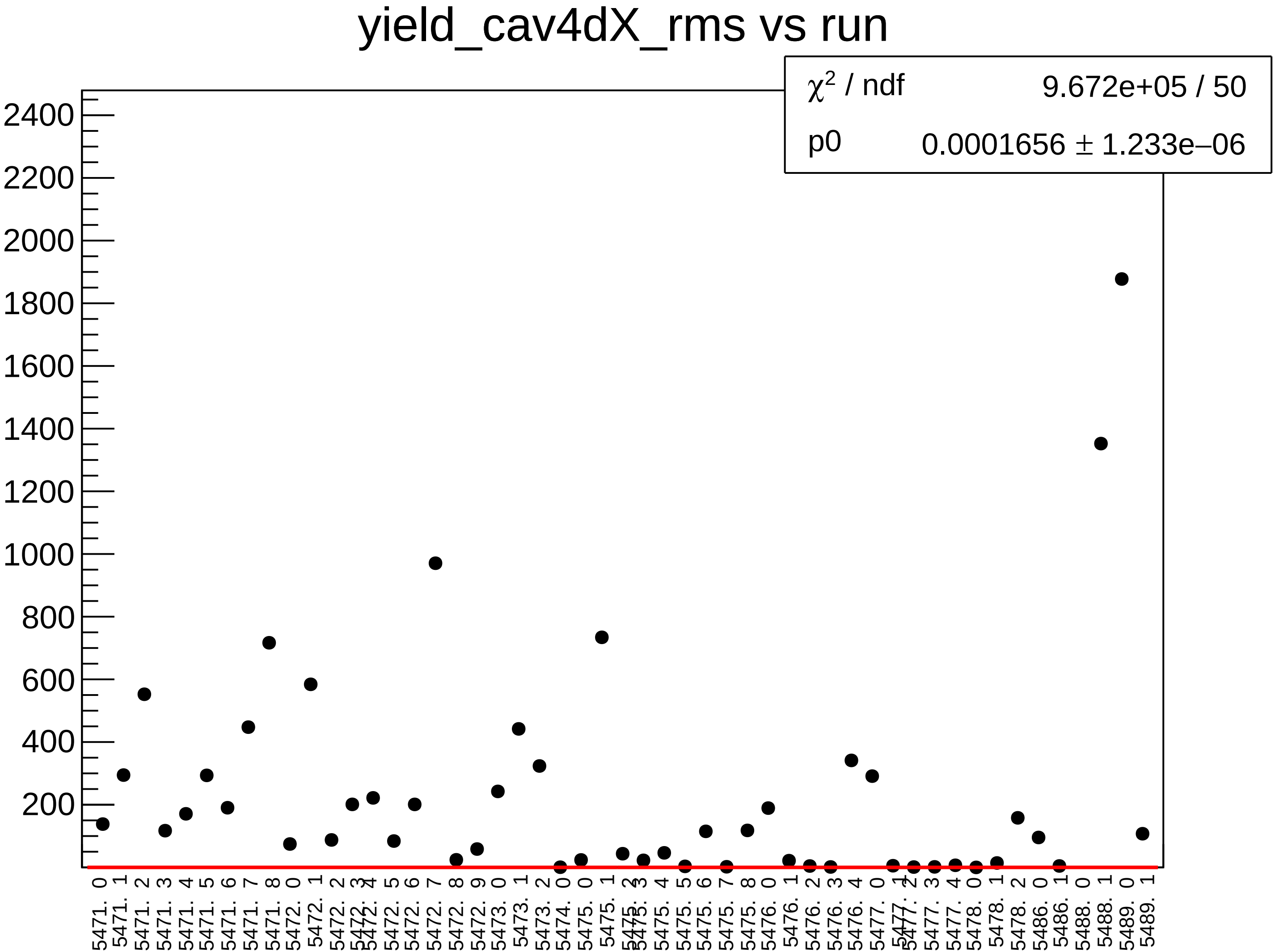
yield_cav4cY_mean vs run
χ^2 / ndf 7.249e+05 / 50
p0 −1.032 ± 6.064e−05
pull
Entries 51
Mean −1026
Std Dev 1050
pull1D
Entries 51
Mean 0
Std Dev 0



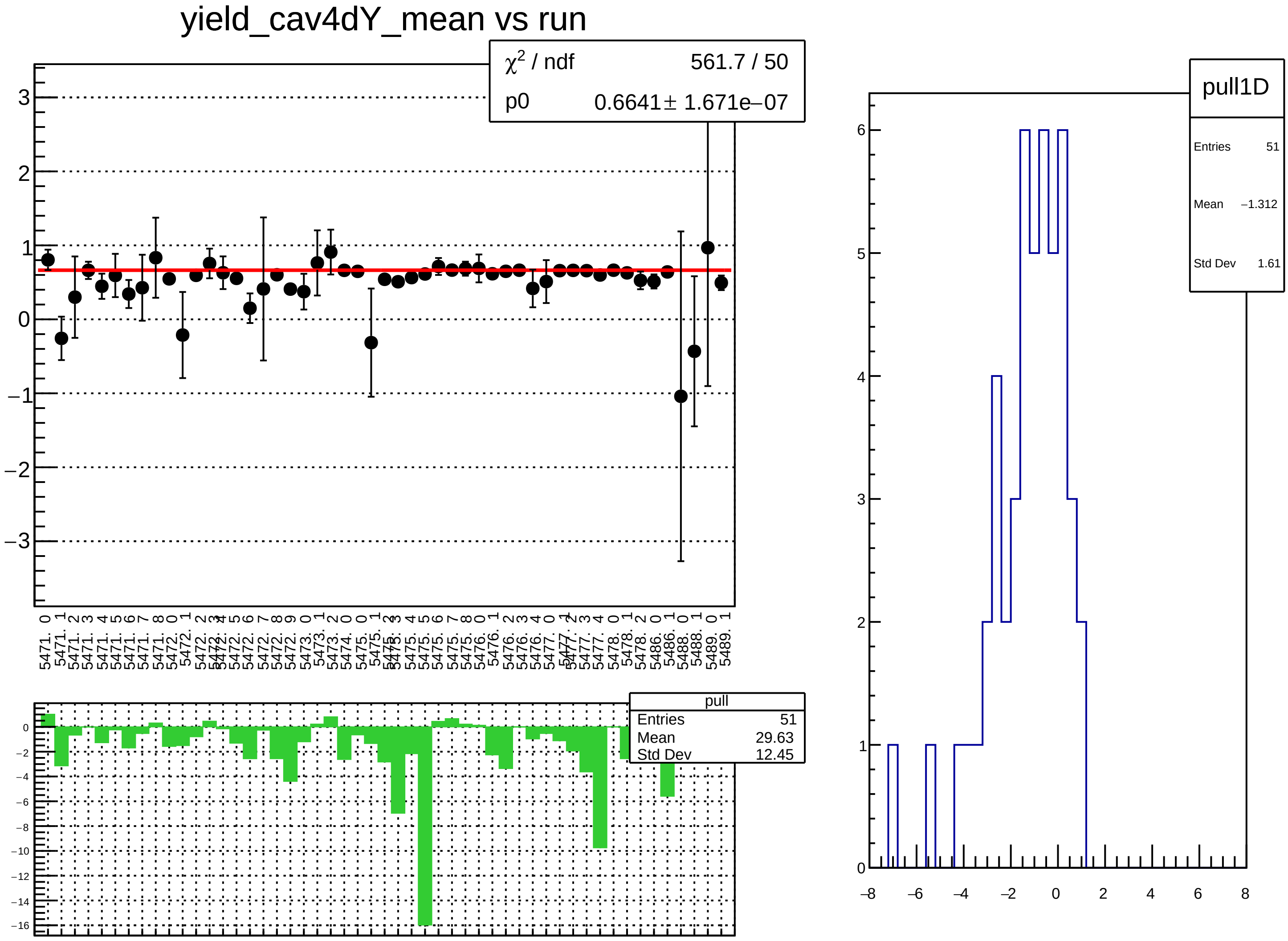
yield_cav4cY_rms vs run
χ^2 / ndf 9.579e+04 / 50
p0 0.04044 ± 4.288e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02



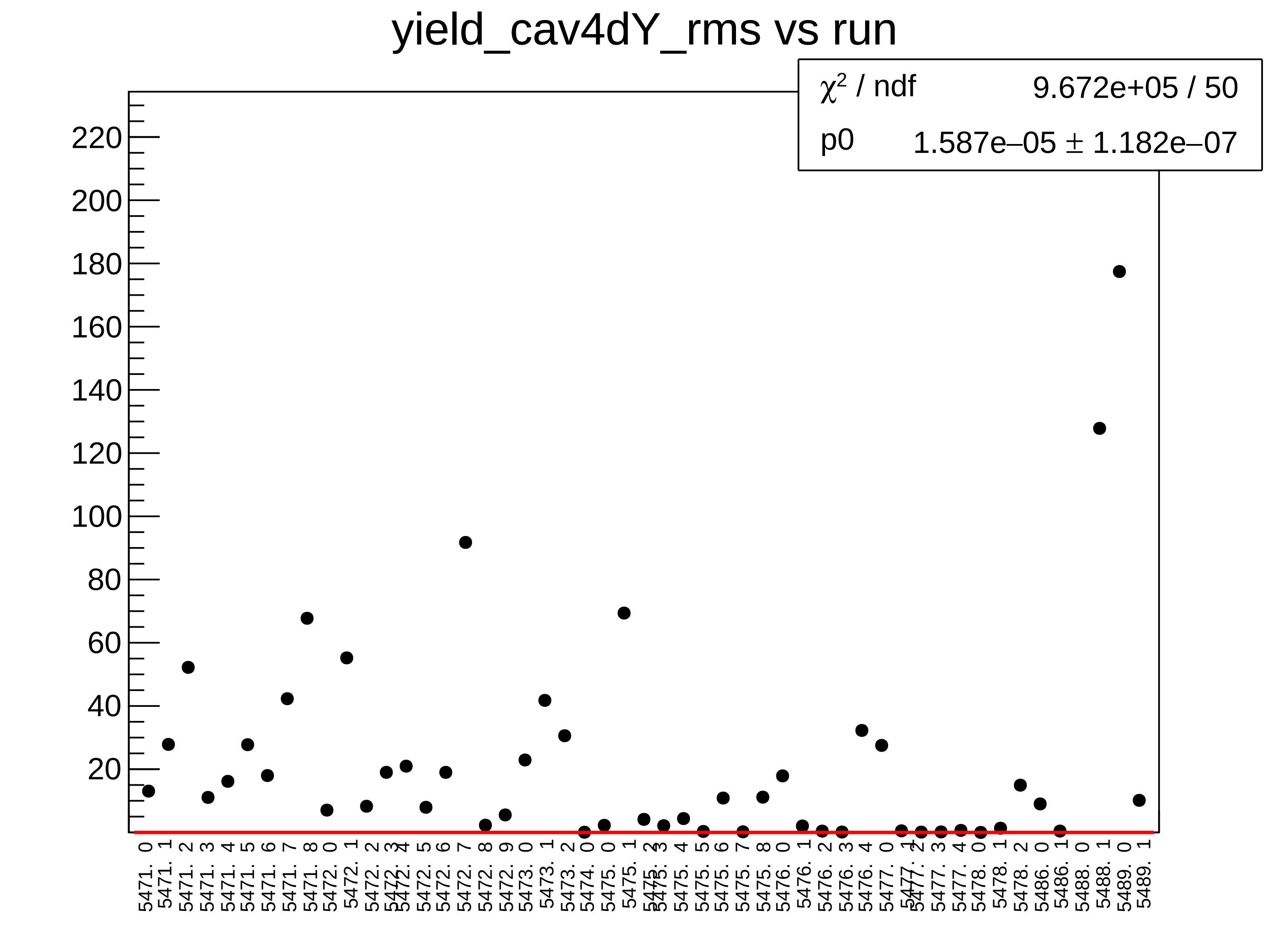
yield_cav4dX_mean vs run
χ^2 / ndf 561.7 / 50
p0 −7.025 ± 1.744e−06
pull
Entries 51
Mean 29.58
Std Dev 12.48
pull1D
Entries 51
Mean 1.316
Std Dev 1.608



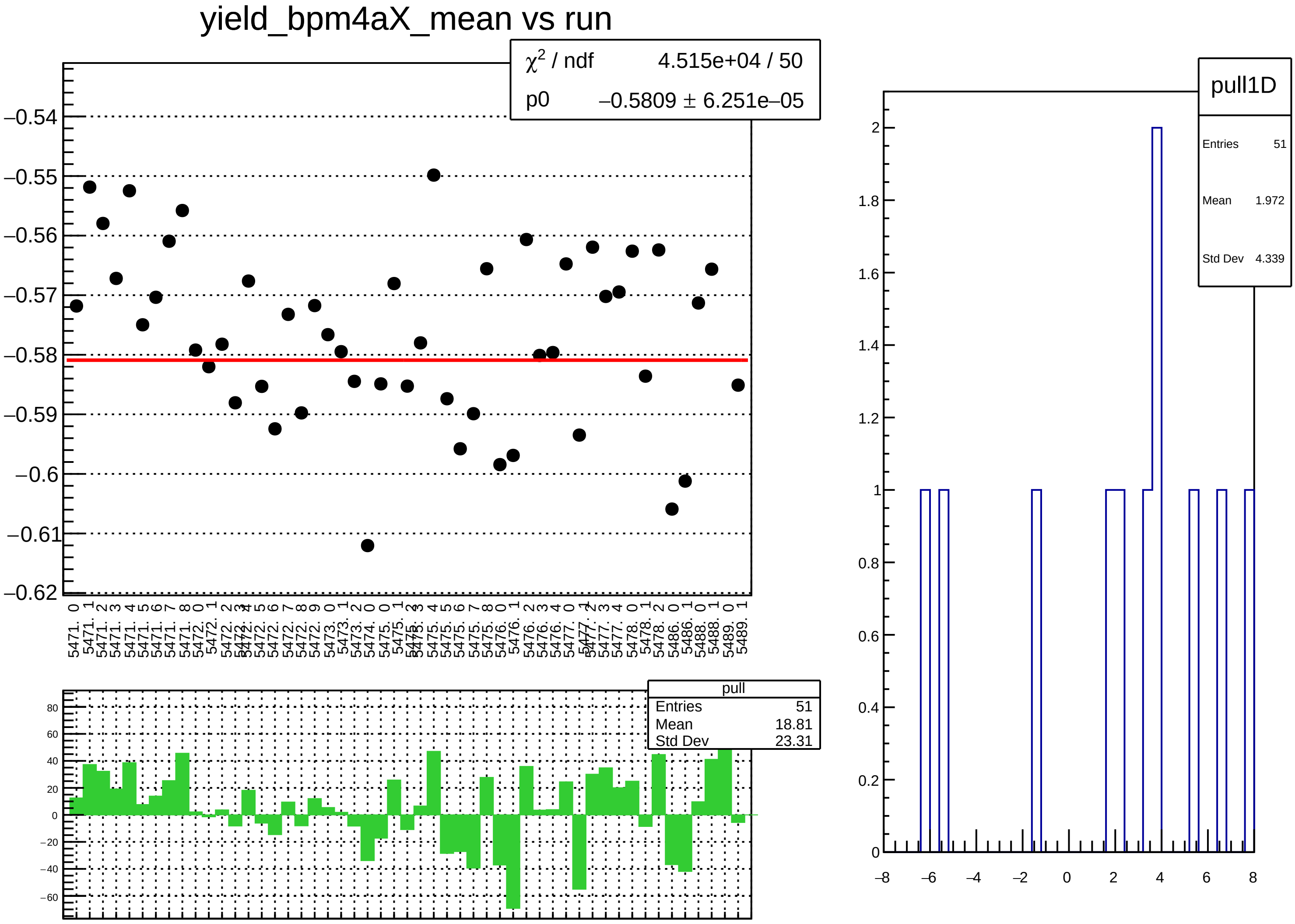
yield_cav4dX_rms vs run
χ2 / ndf 9.672e+05 / 50
p0 0.0001656 ± 1.233e−06
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200



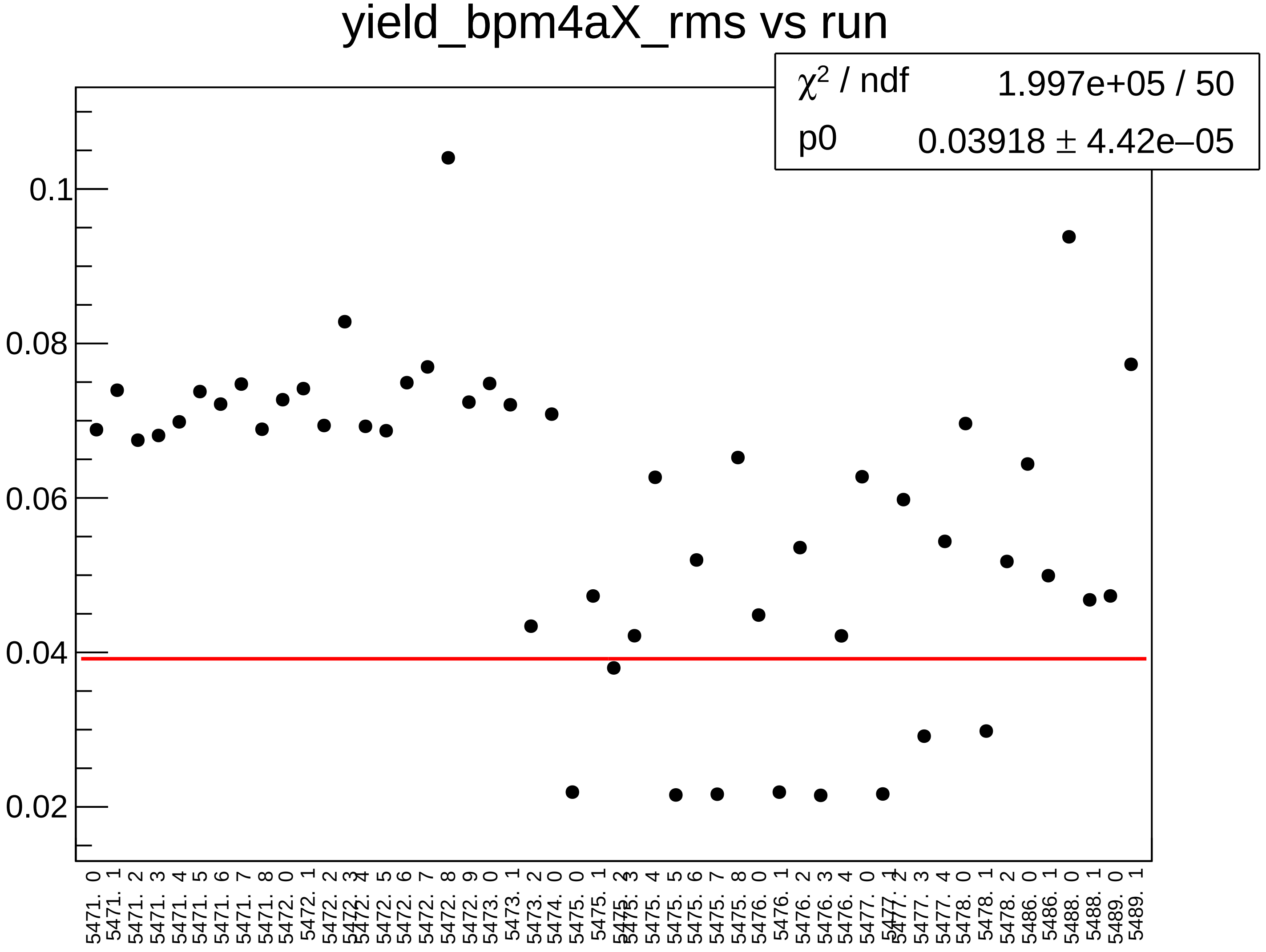
yield_cav4dY_mean vs run
χ² / ndf 561.7 / 50
p0 0.6641 ± 1.671e−07
pull
Entries 51
Mean 29.63
Std Dev 12.45
pull1D
Entries 51
Mean −1.312
Std Dev 1.61



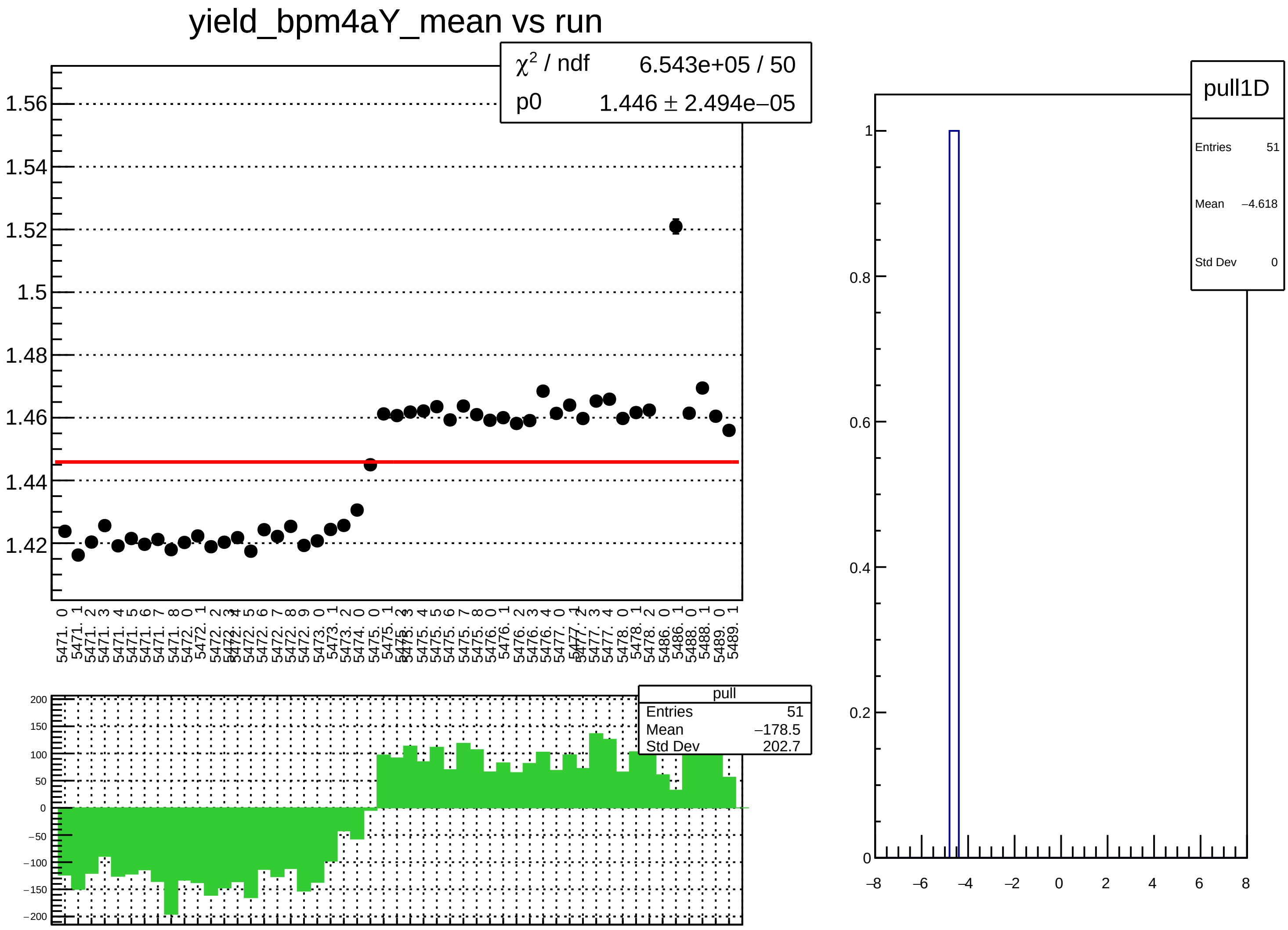
yield_cav4dY_rms vs run
χ^2 / ndf 9.672e+05 / 50
p0 1.587e−05 ± 1.182e−07
220
200
180
160
140
120
100
80
60
40
20

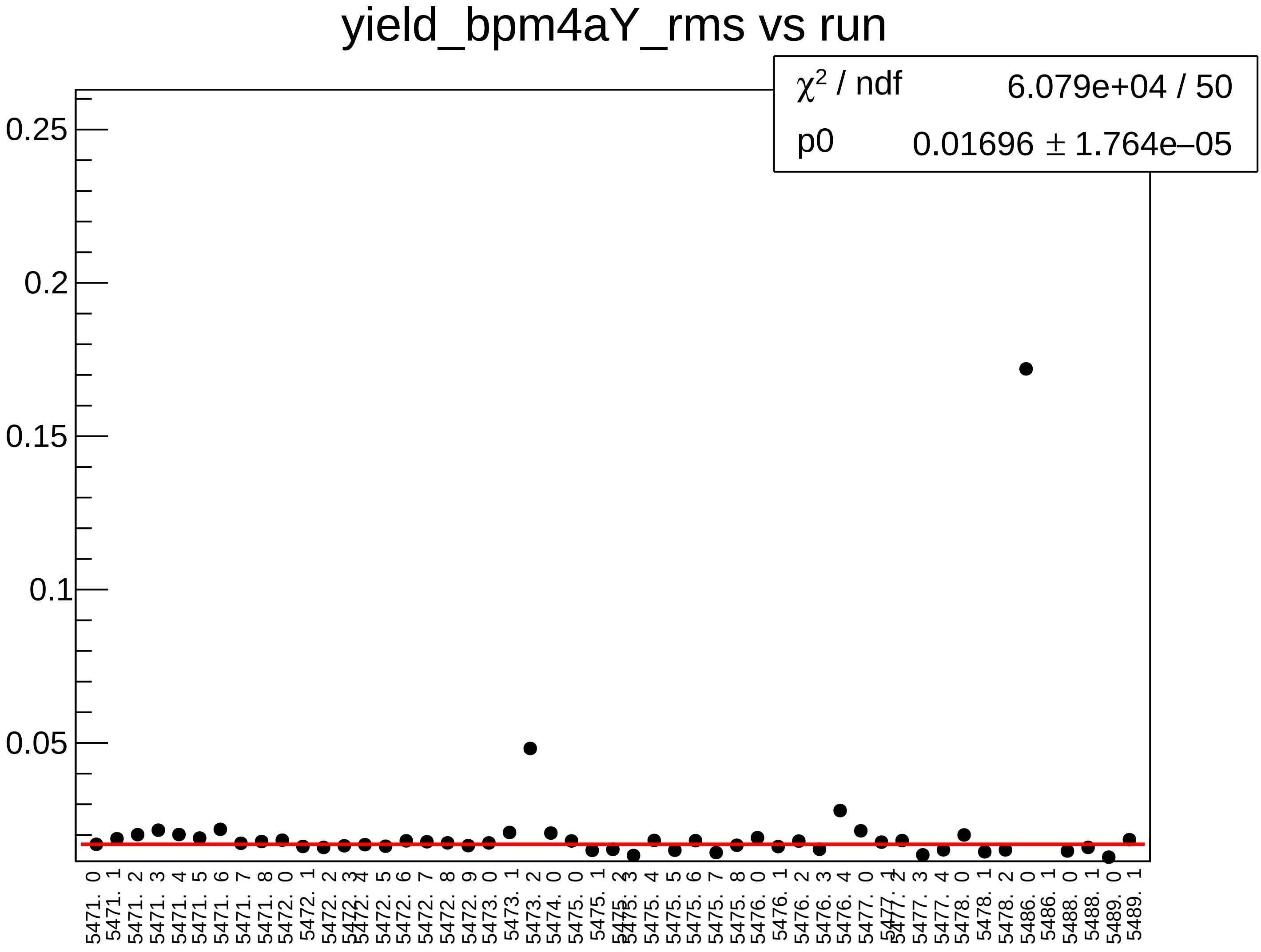


yield_bpm4aX_mean vs run
χ^2 / ndf 4.515e+04 / 50
p0 −0.5809 ± 6.251e−05
pull
Entries 51
Mean 18.81
Std Dev 23.31
pull1D
Entries 51
Mean 1.972
Std Dev 4.339

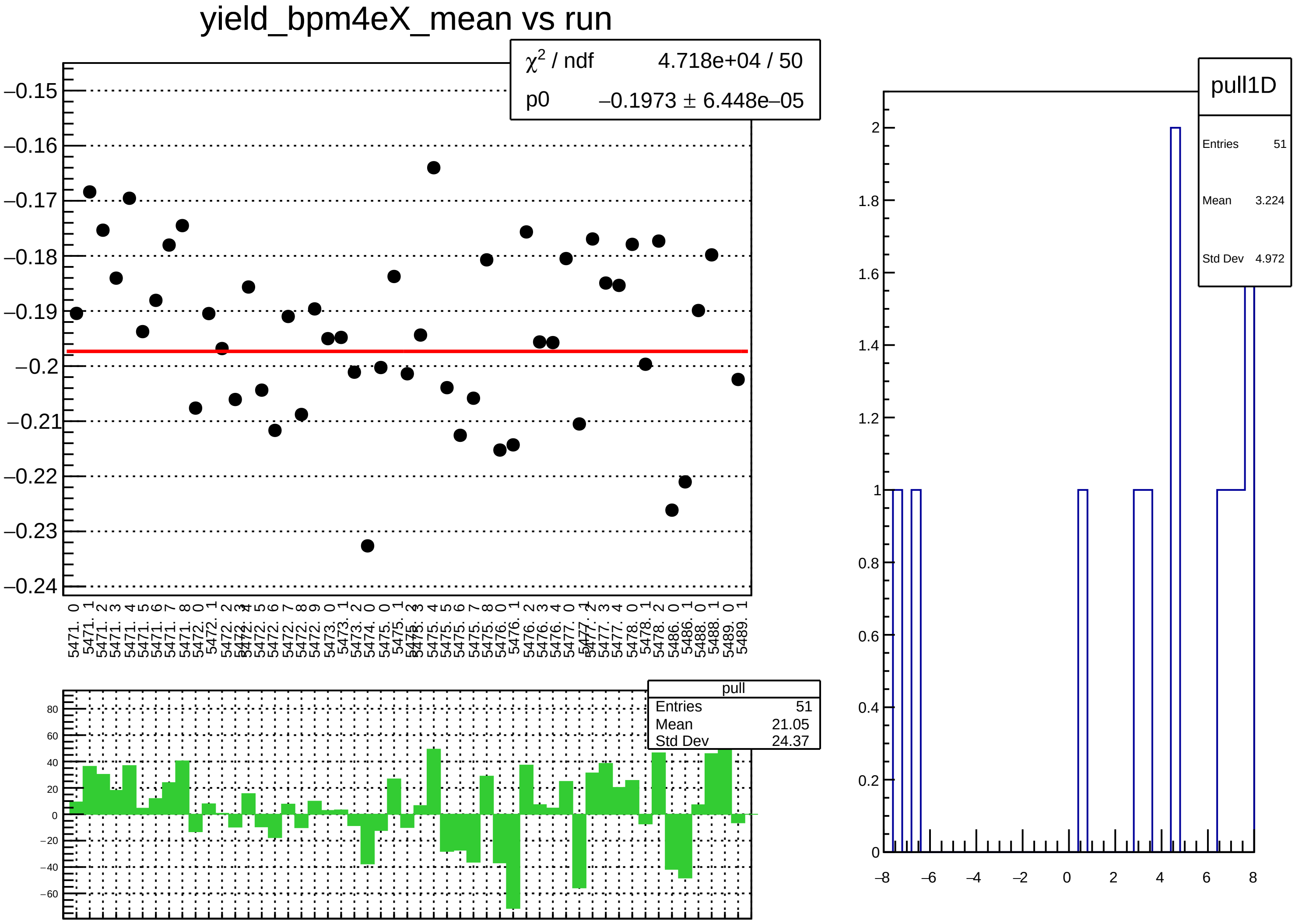


yield_bpm4aX_rms vs run
χ2 / ndf 1.997e+05 / 50
p0 0.03918 ± 4.42e−05
0.1
0.08
0.06
0.04
0.02

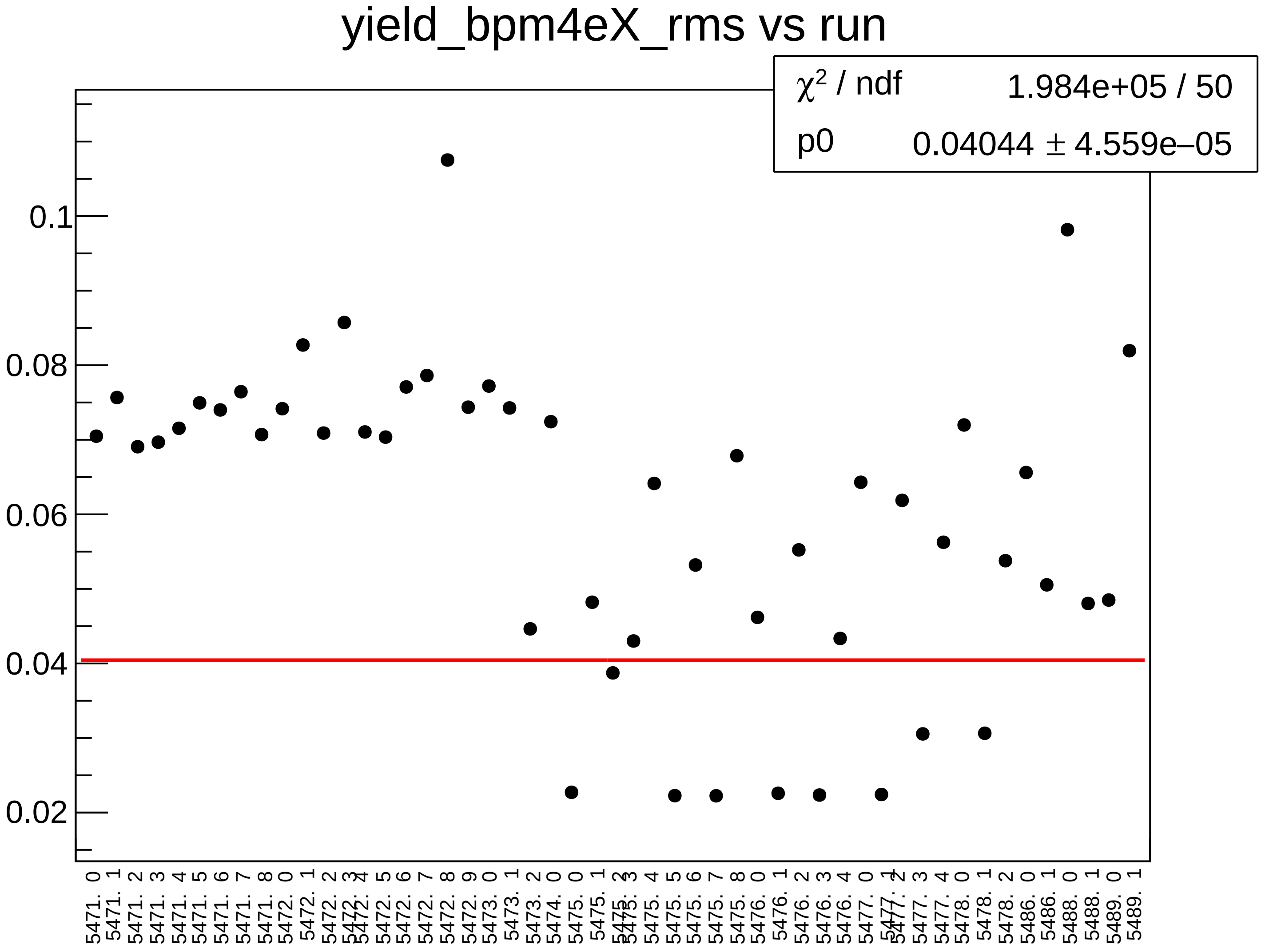

yield_bpm4aY_mean vs run
χ^2 / ndf 6.543e+05 / 50
p0 1.446 ± 2.494e−05
pull
Entries 51
Mean −178.5
Std Dev 202.7
pull1D
Entries 51
Mean −4.618
Std Dev 0



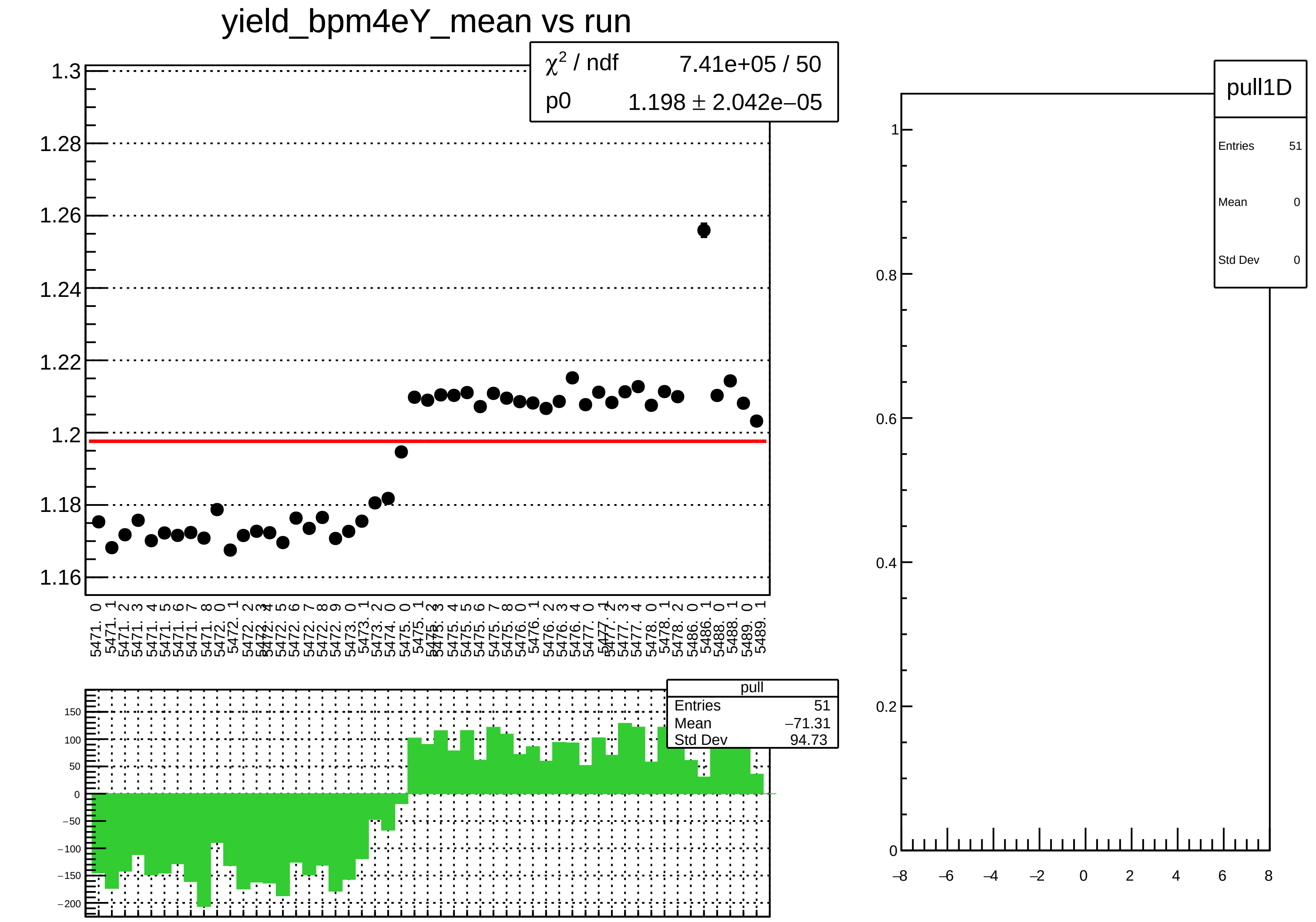
yield_bpm4aY_rms vs run
χ2 / ndf 6.079e+04 / 50
p0 0.01696 ± 1.764e−05
0.25
0.2
0.15
0.1
0.05



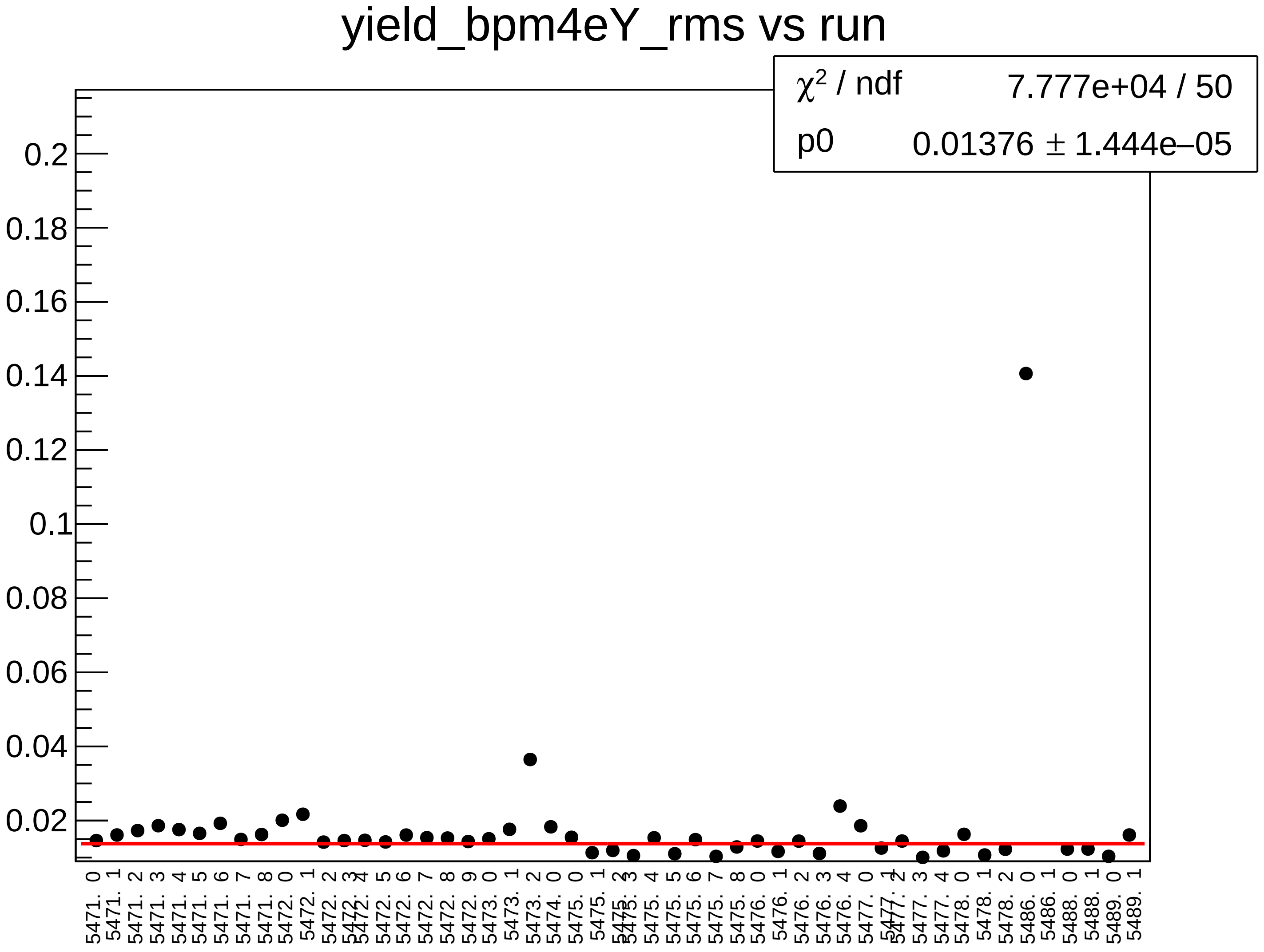
yield_bpm4eX_mean vs run
χ^2 / ndf 4.718e+04 / 50
p0 −0.1973 ± 6.448e−05
pull
Entries 51
Mean 21.05
Std Dev 24.37
pull1D
Entries 51
Mean 3.224
Std Dev 4.972

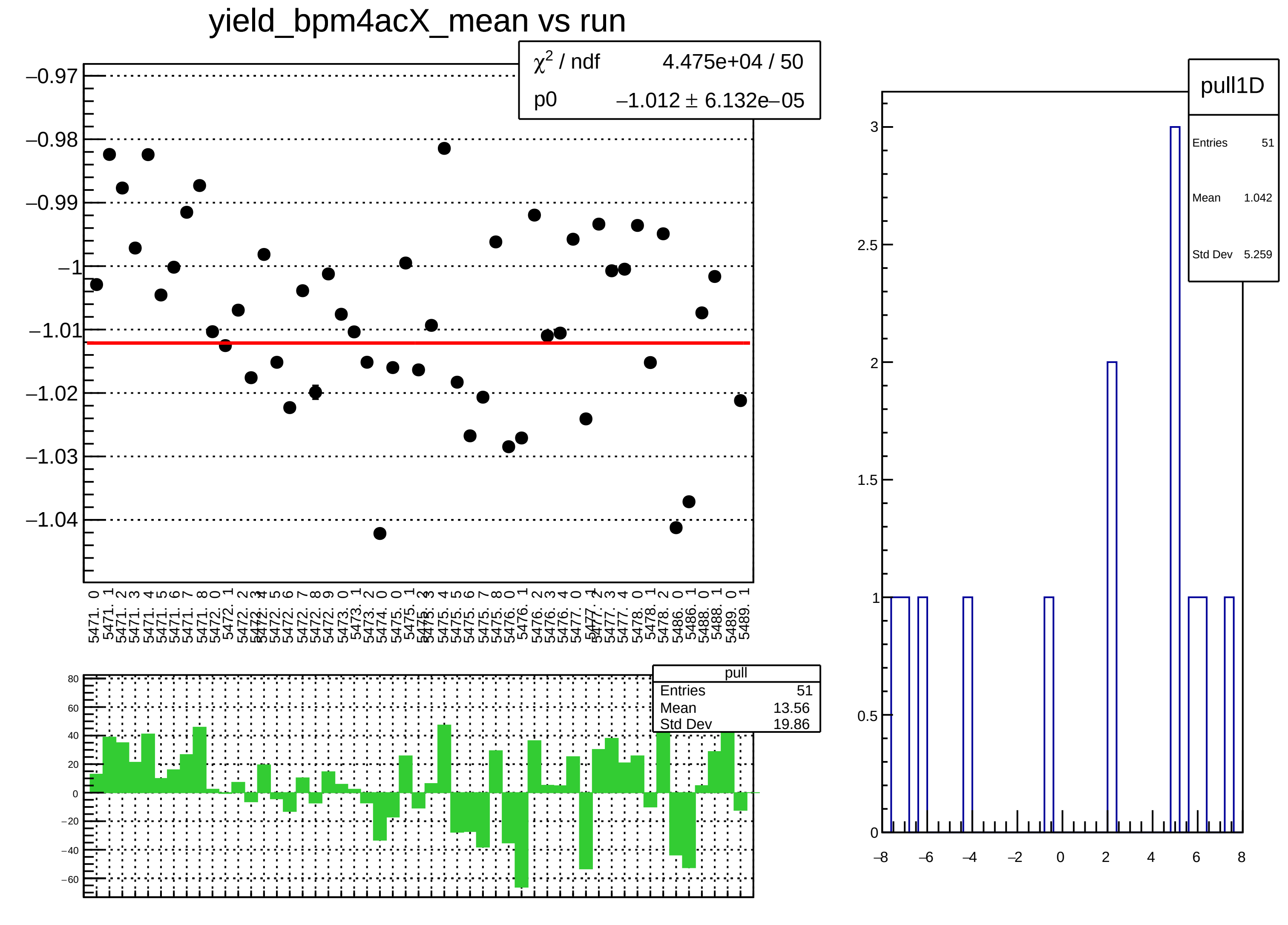


yield_bpm4eX_rms vs run
χ^2 / ndf 1.984e+05 / 50
p0 0.04044 ± 4.559e−05
0.1
0.08
0.06
0.04
0.02
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

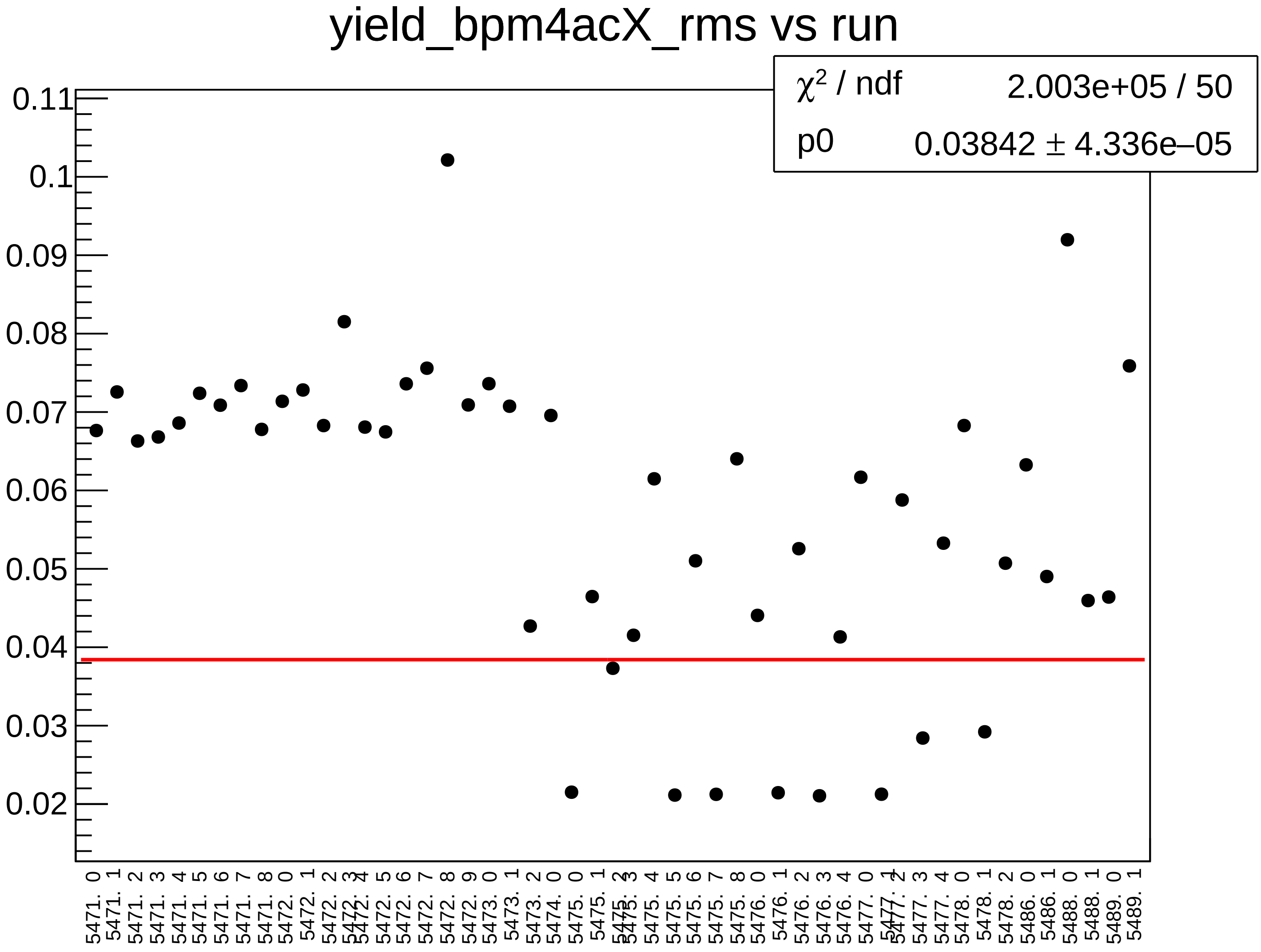


yield_bpm4eY_mean vs run
χ^2 / ndf 7.41e+05 / 50
p0 1.198 ± 2.042e−05
pull
Entries 51
Mean −71.31
Std Dev 94.73
pull1D
Entries 51
Mean 0
Std Dev 0

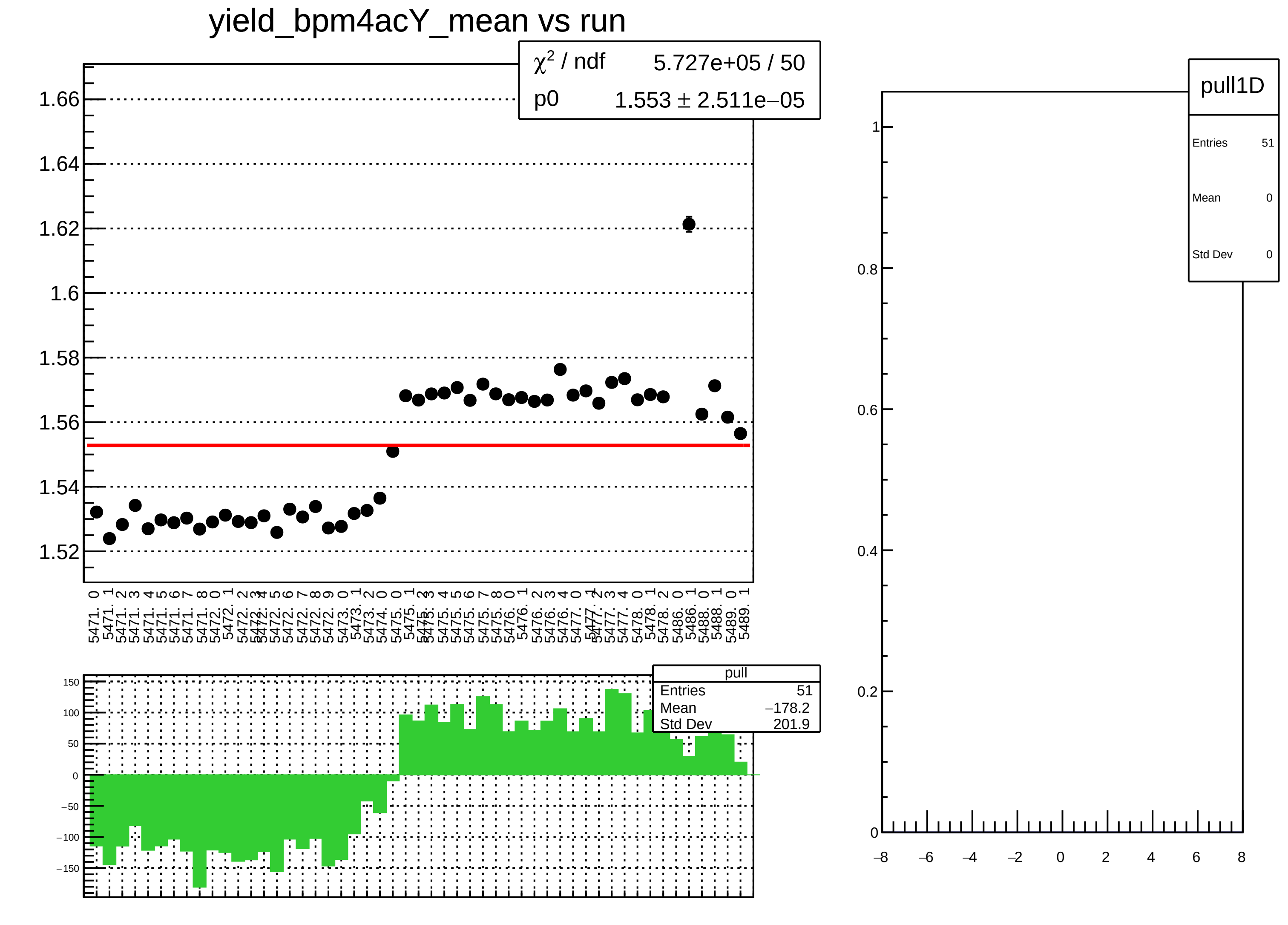

yield_bpm4eY_rms vs run
χ2 / ndf 7.777e+04 / 50
p0 0.01376 ± 1.444e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



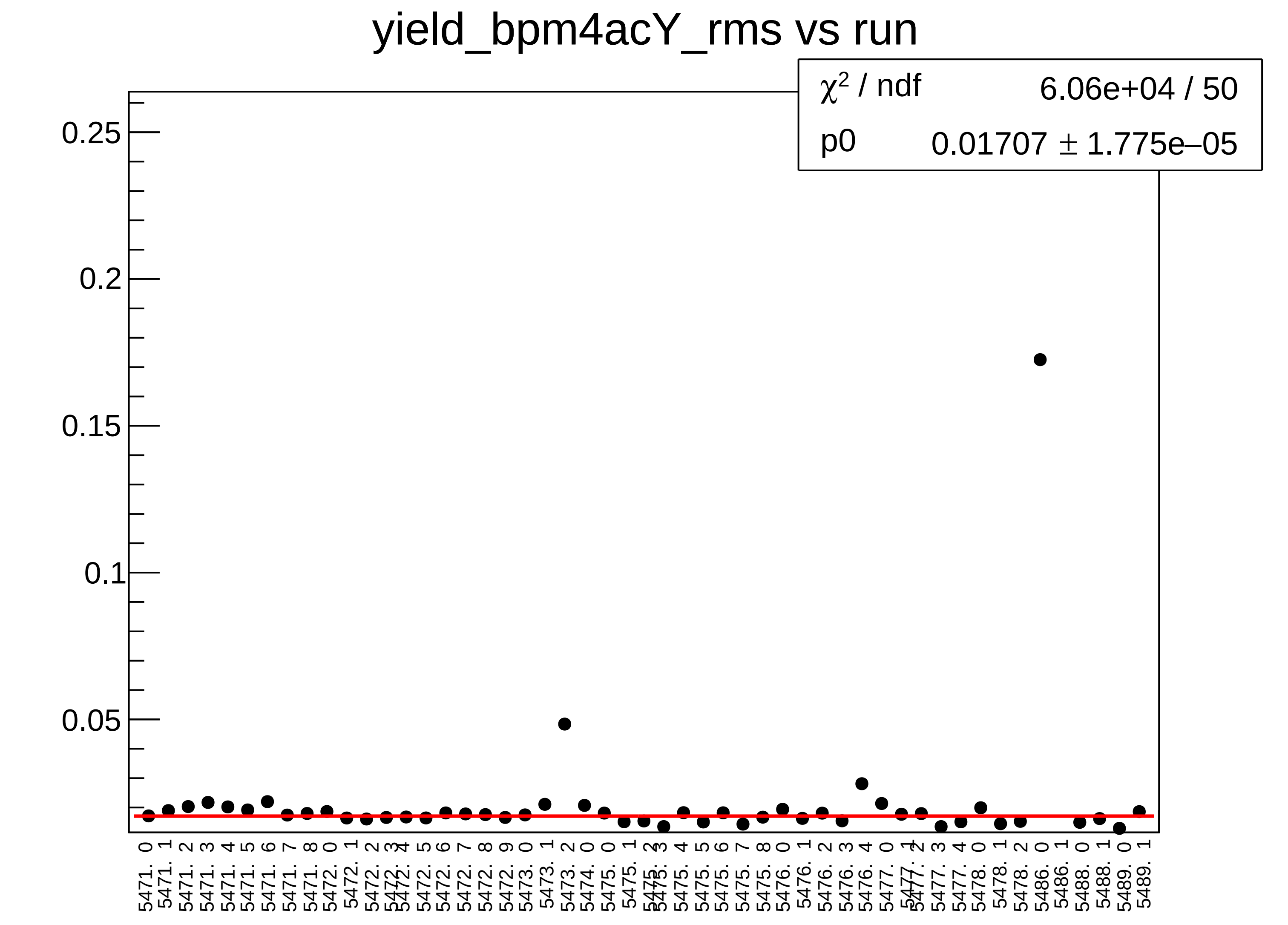
yield_bpm4acX_mean vs run
χ2 / ndf 4.475e+04 / 50
p0 −1.012 ± 6.132e−05
pull
Entries 51
Mean 13.56
Std Dev 19.86
pull1D
Entries 51
Mean 1.042
Std Dev 5.259



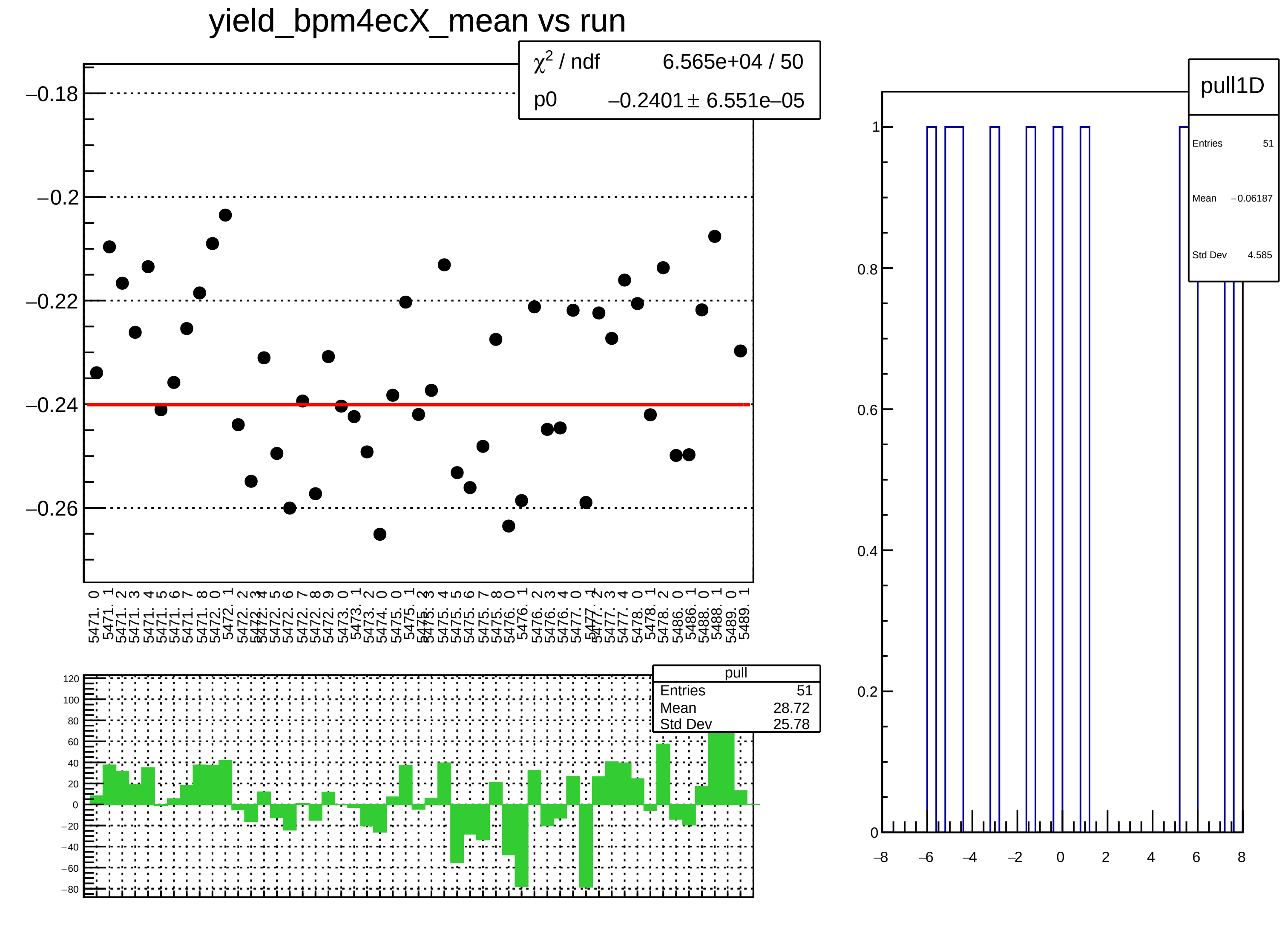
yield_bpm4acX_rms vs run
χ2 / ndf 2.003e+05 / 50
p0 0.03842 ± 4.336e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



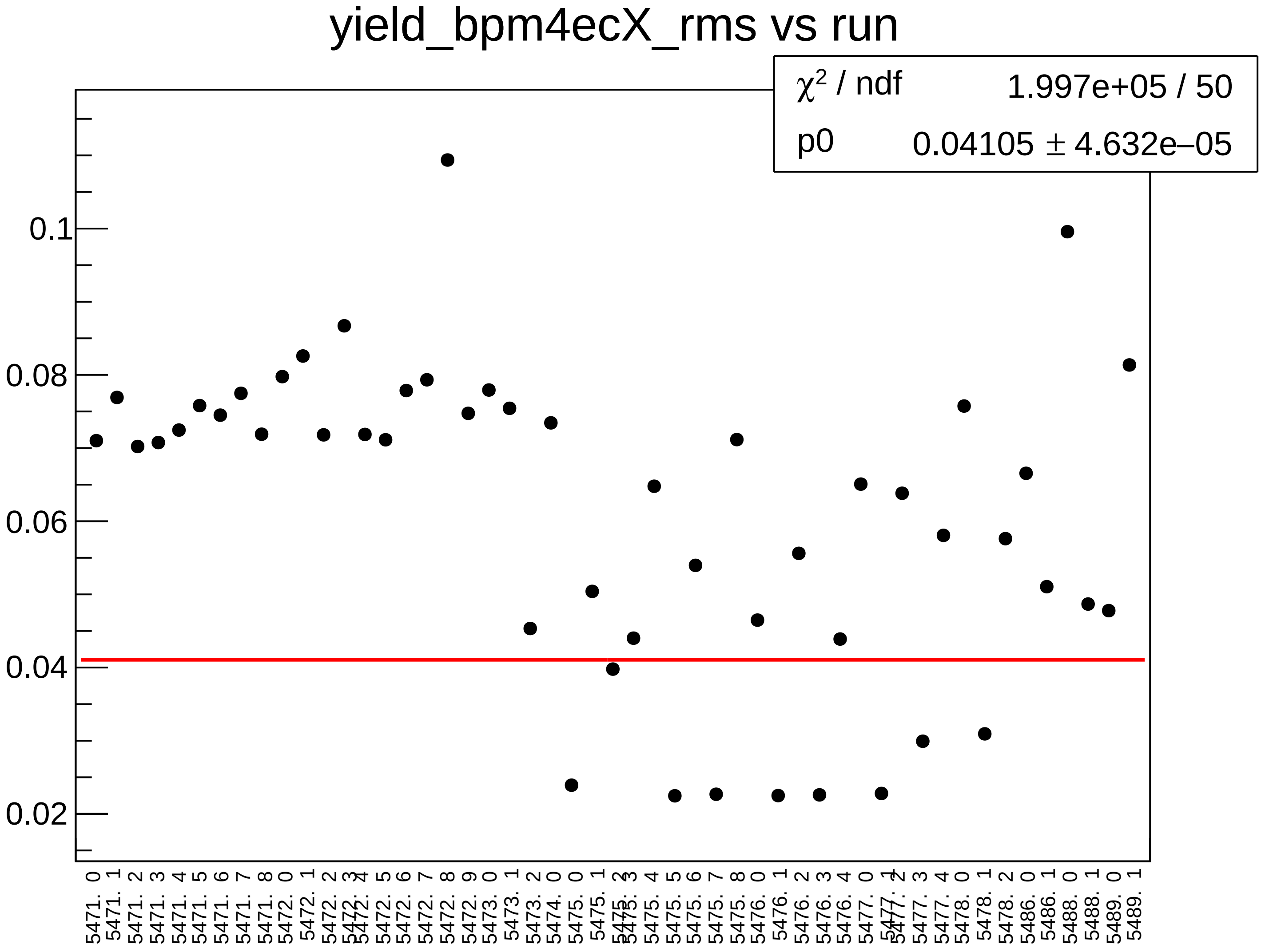
yield_bpm4acY_mean vs run
χ^2 / ndf 5.727e+05 / 50
p0 1.553 ± 2.511e−05
pull
Entries 51
Mean −178.2
Std Dev 201.9
pull1D
Entries 51
Mean 0
Std Dev 0



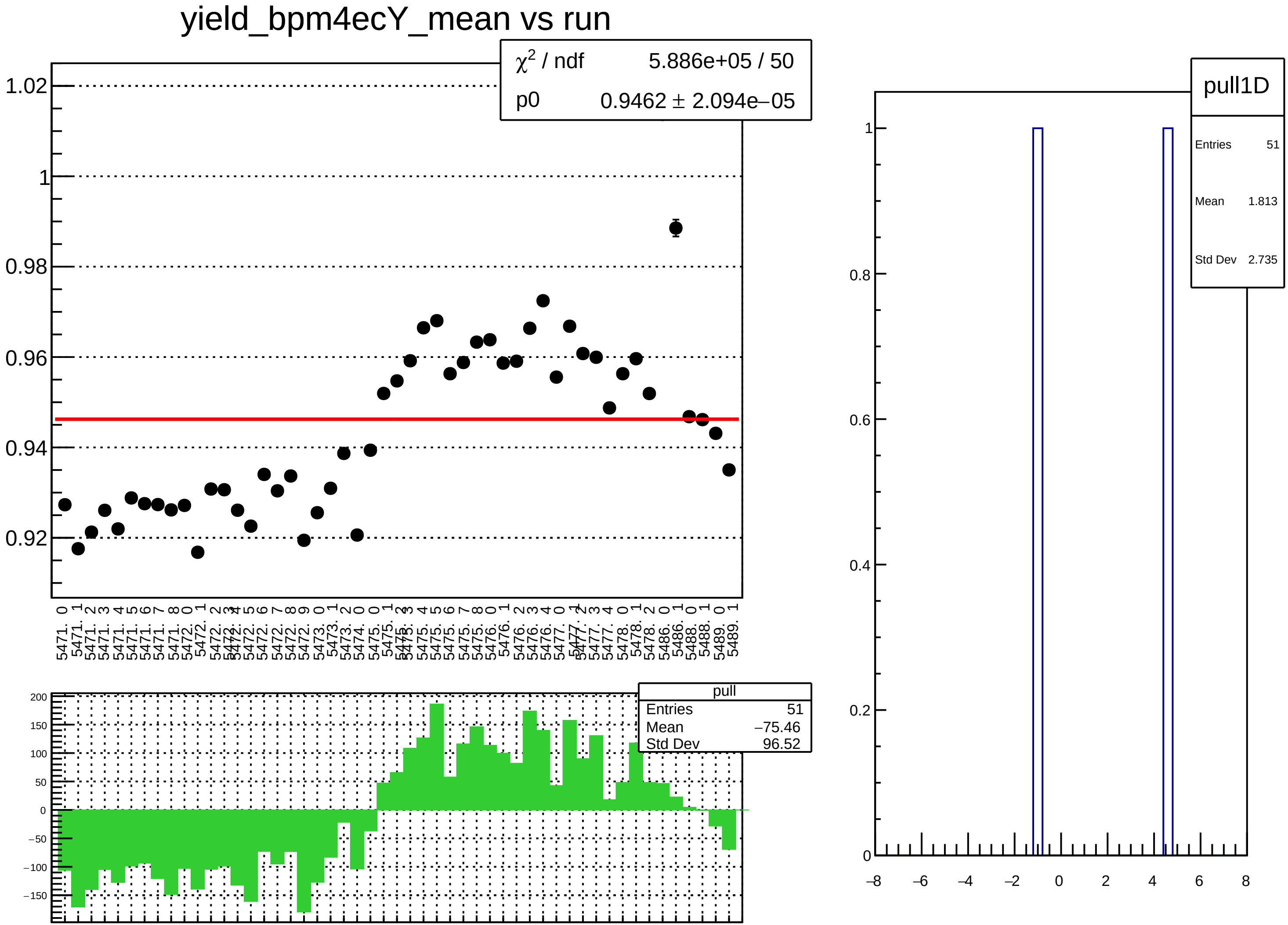
yield_bpm4acY_rms vs run
χ^2 / ndf 6.06e+04 / 50
p0 0.01707 ± 1.775e−05
0.25
0.2
0.15
0.1
0.05



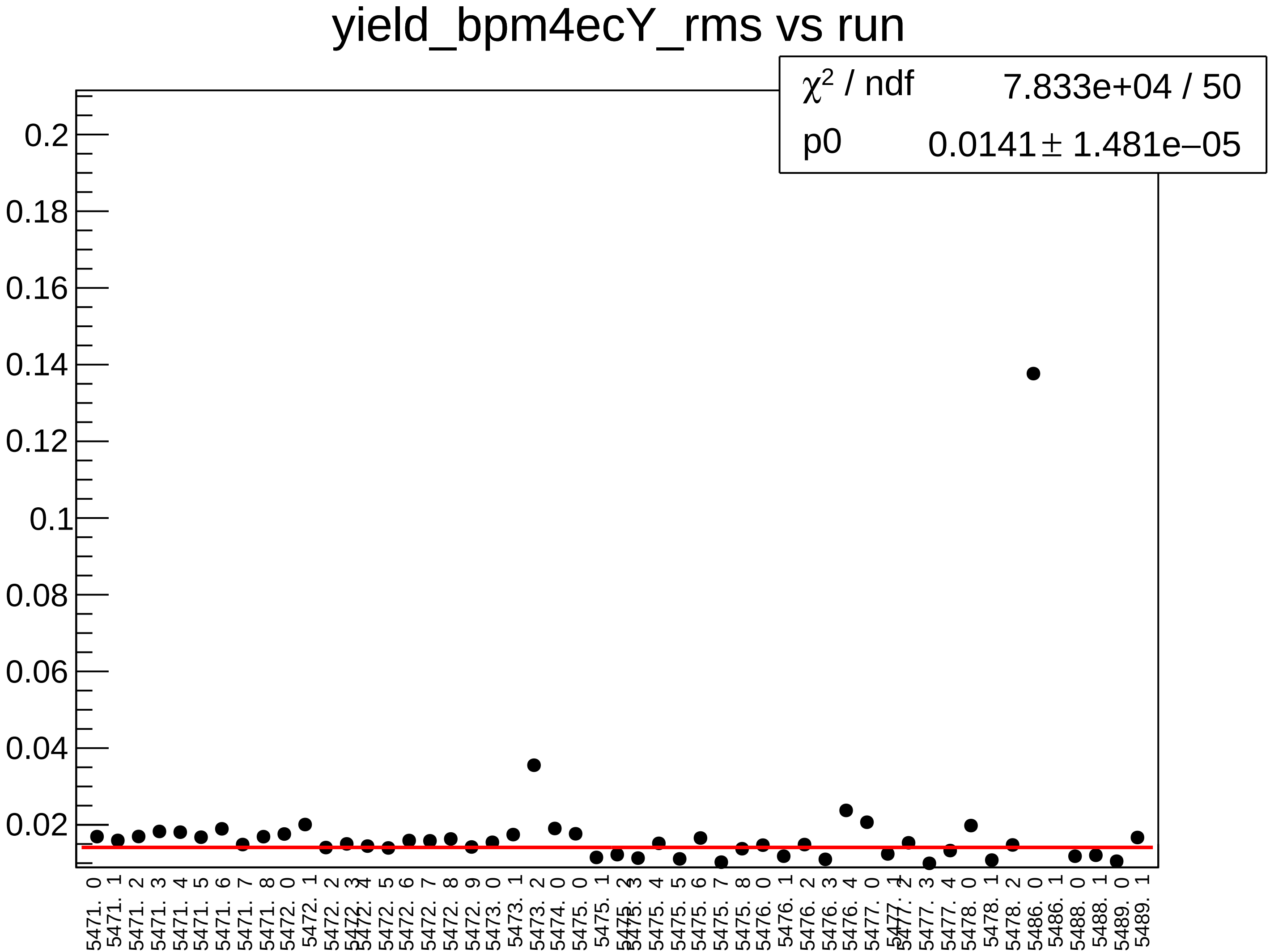
yield_bpm4ecX_mean vs run
χ^2 / ndf 6.565e+04 / 50
p0 −0.2401 ± 6.551e−05
pull
Entries 51
Mean 28.72
Std Dev 25.78
pull1D
Entries 51
Mean −0.06187
Std Dev 4.585

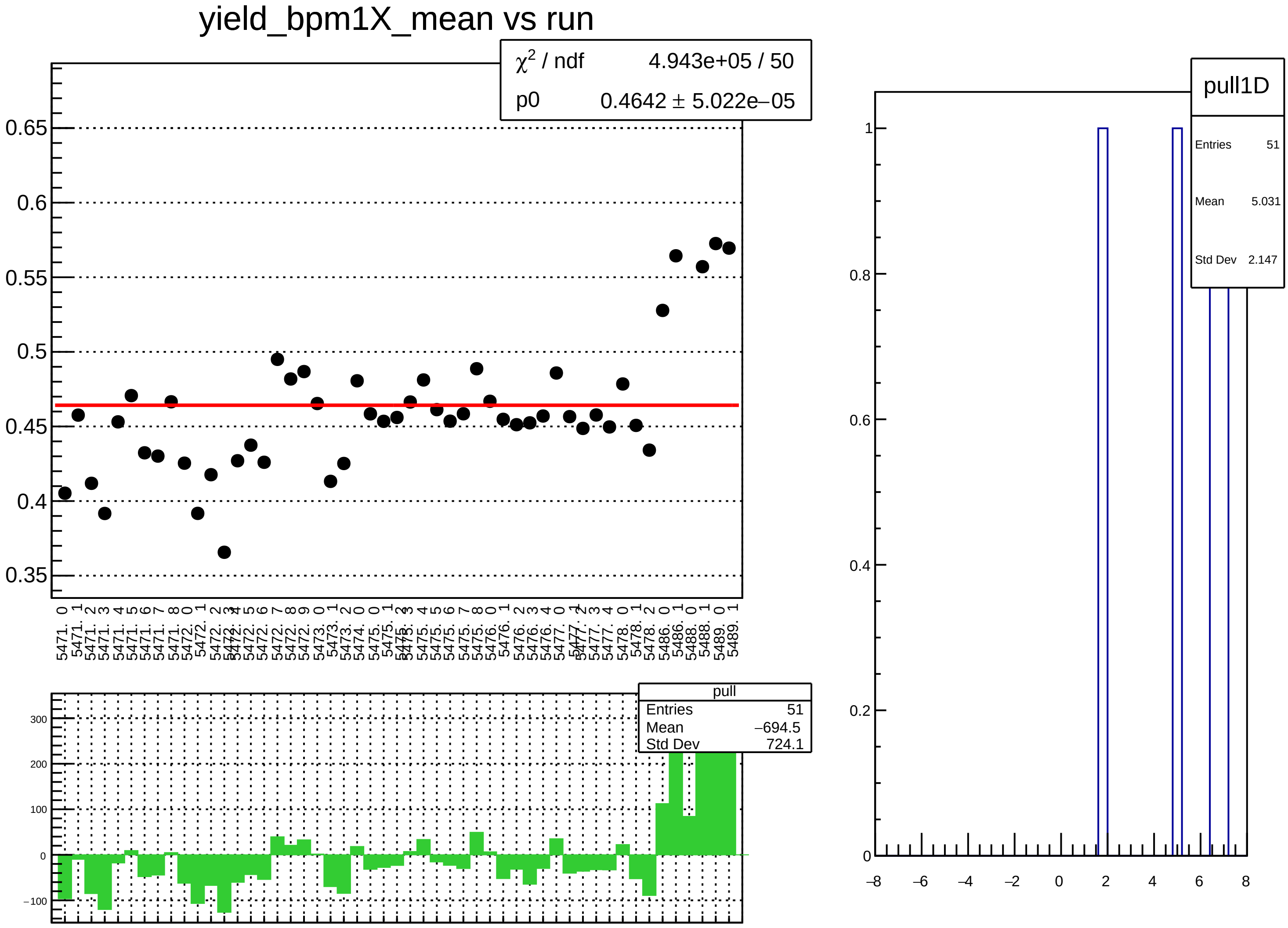


yield_bpm4ecX_rms vs run
χ² / ndf 1.997e+05 / 50
p0 0.04105 ± 4.632e−05
0.1
0.08
0.06
0.04
0.02

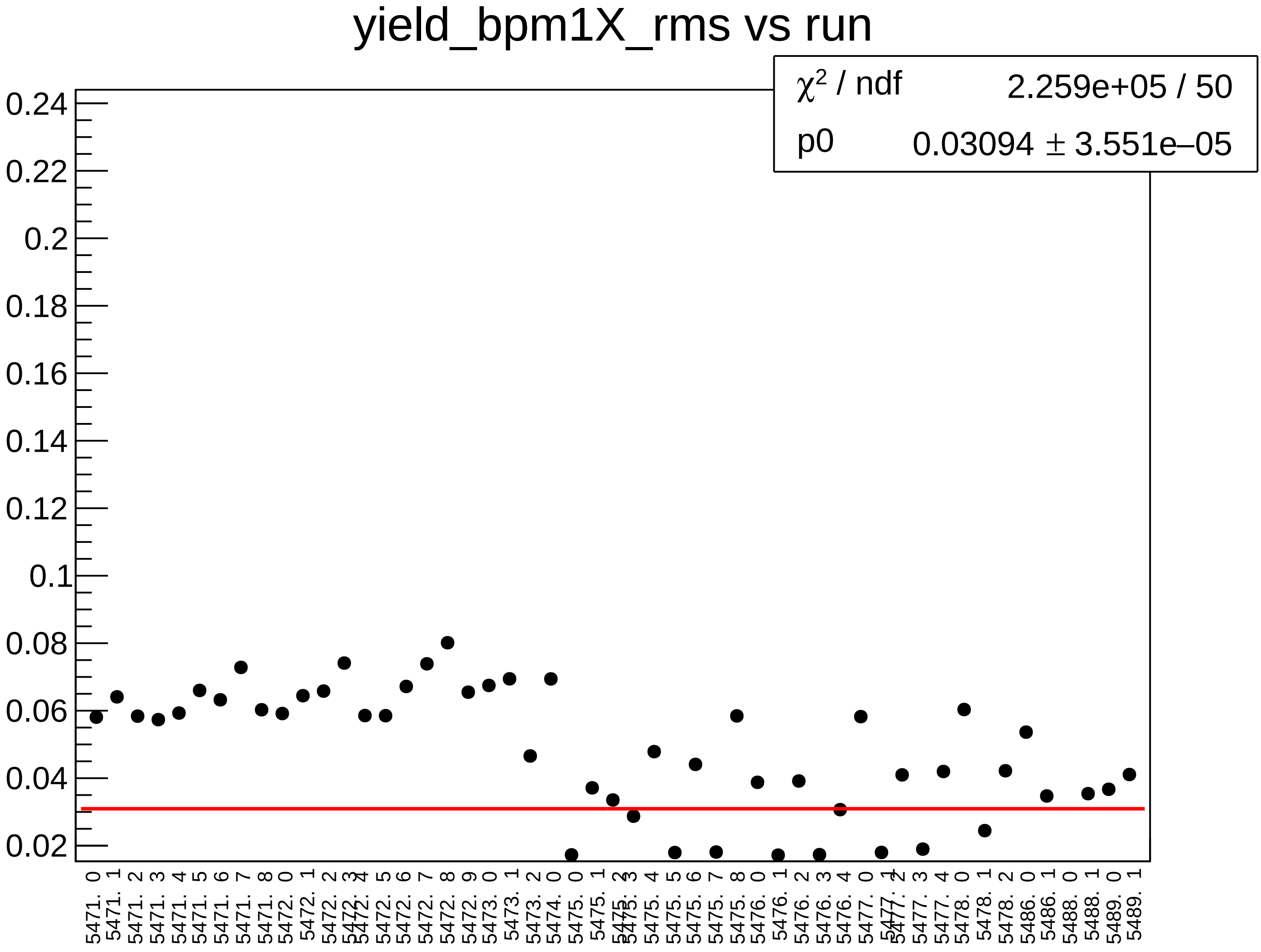


yield_bpm4ecY_mean vs run
χ2 / ndf 5.886e+05 / 50
p0 0.9462 ± 2.094e−05
1.02
1
0.98
0.96
0.94
0.92
pull
Entries 51
Mean −75.46
Std Dev 96.52
200
150
100
50
0
−50
−100
−150
pull1D
Entries 51
Mean 1.813
Std Dev 2.735

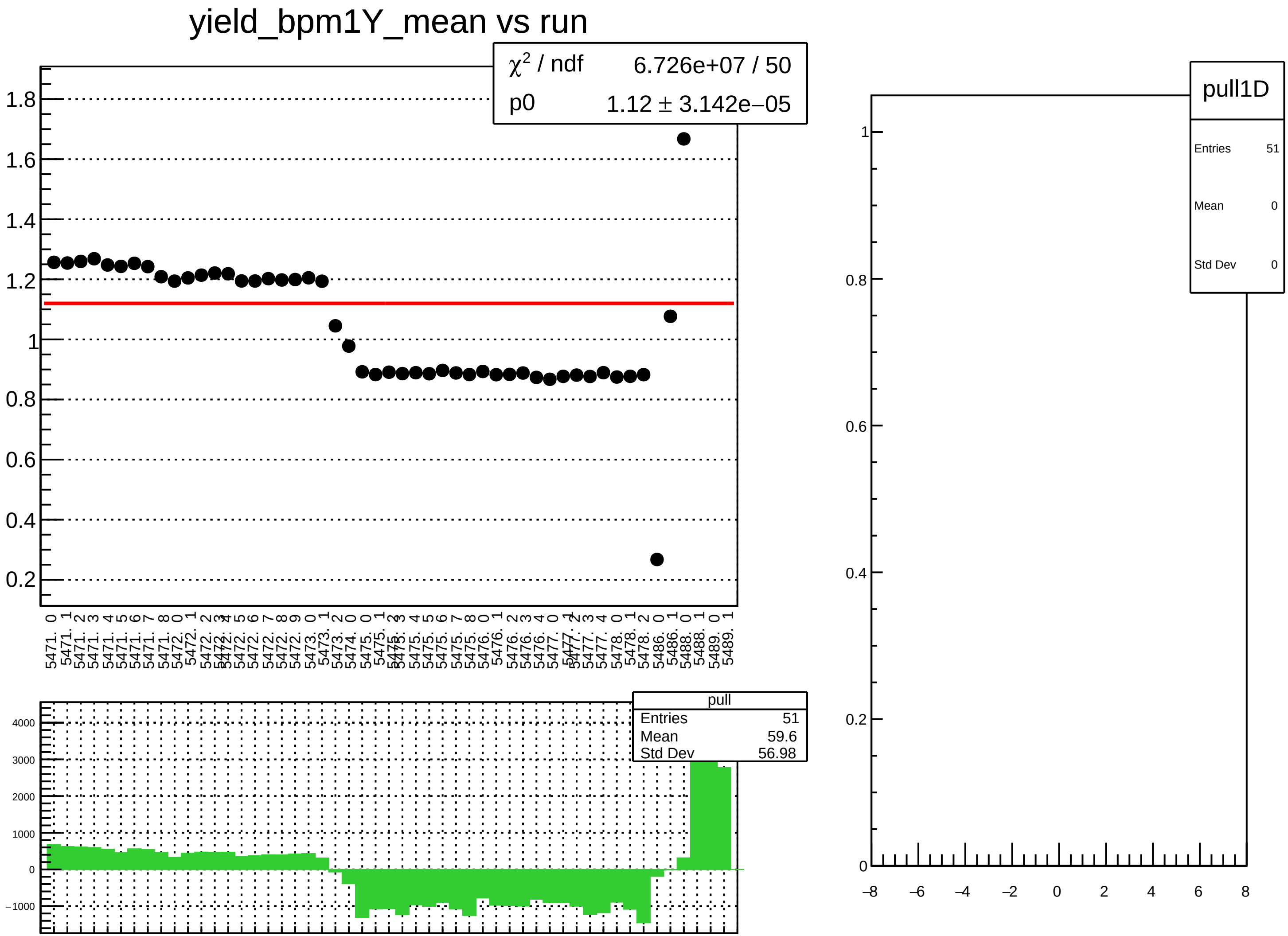

yield_bpm4ecY_rms vs run
χ2 / ndf 7.833e+04 / 50
p0 0.0141 ± 1.481e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02



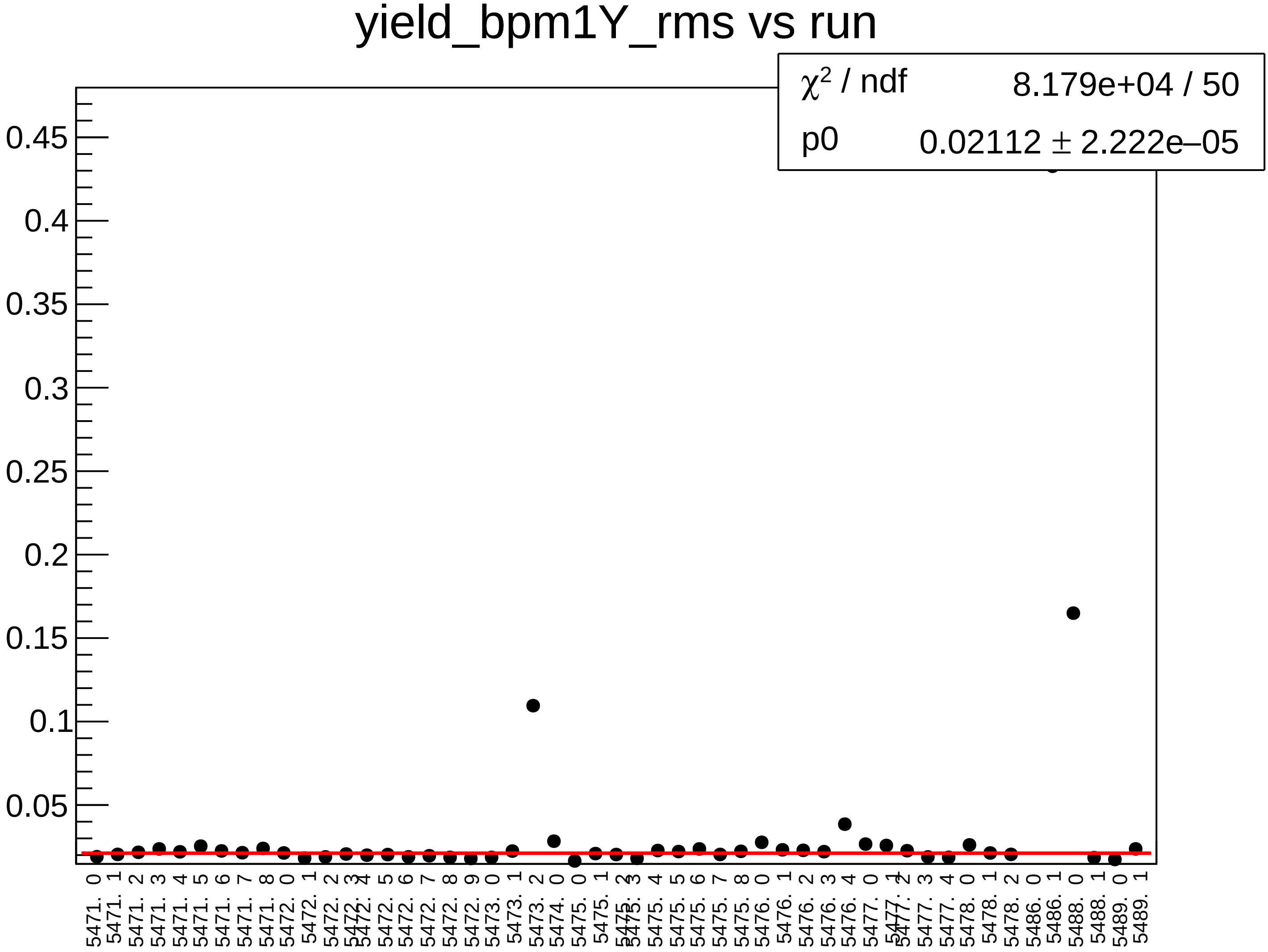
yield_bpm1X_mean vs run
χ^2 / ndf 4.943e+05 / 50
p0 0.4642 ± 5.022e−05
0.65
0.6
0.55
0.5
0.45
0.4
0.35
pull
Entries 51
Mean −694.5
Std Dev 724.1
300
200
100
0
−100
pull1D
Entries 51
Mean 5.031
Std Dev 2.147
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



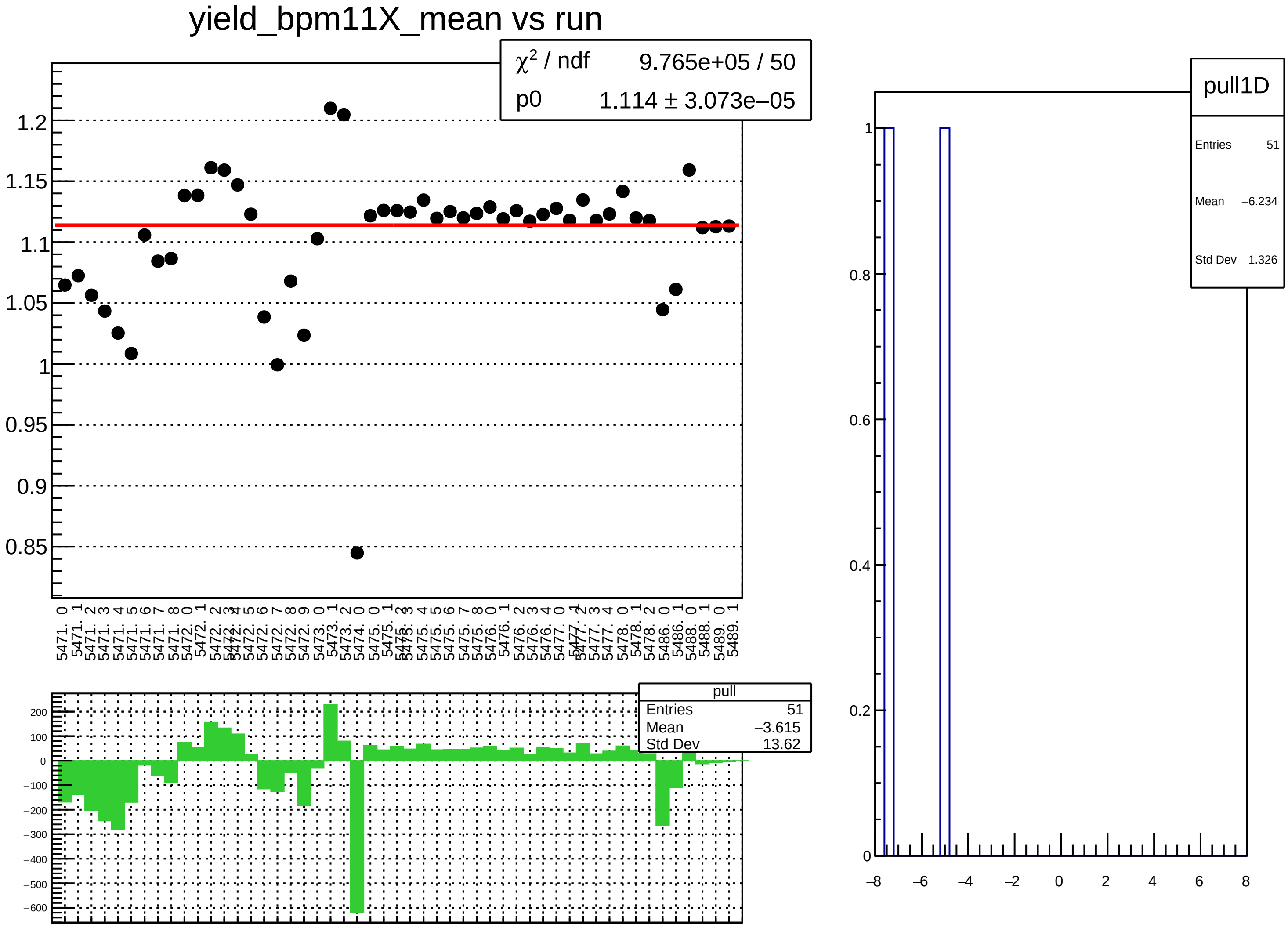
yield_bpm1X_rms vs run
χ^2 / ndf 2.259e+05 / 50
p0 0.03094 ± 3.551e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02



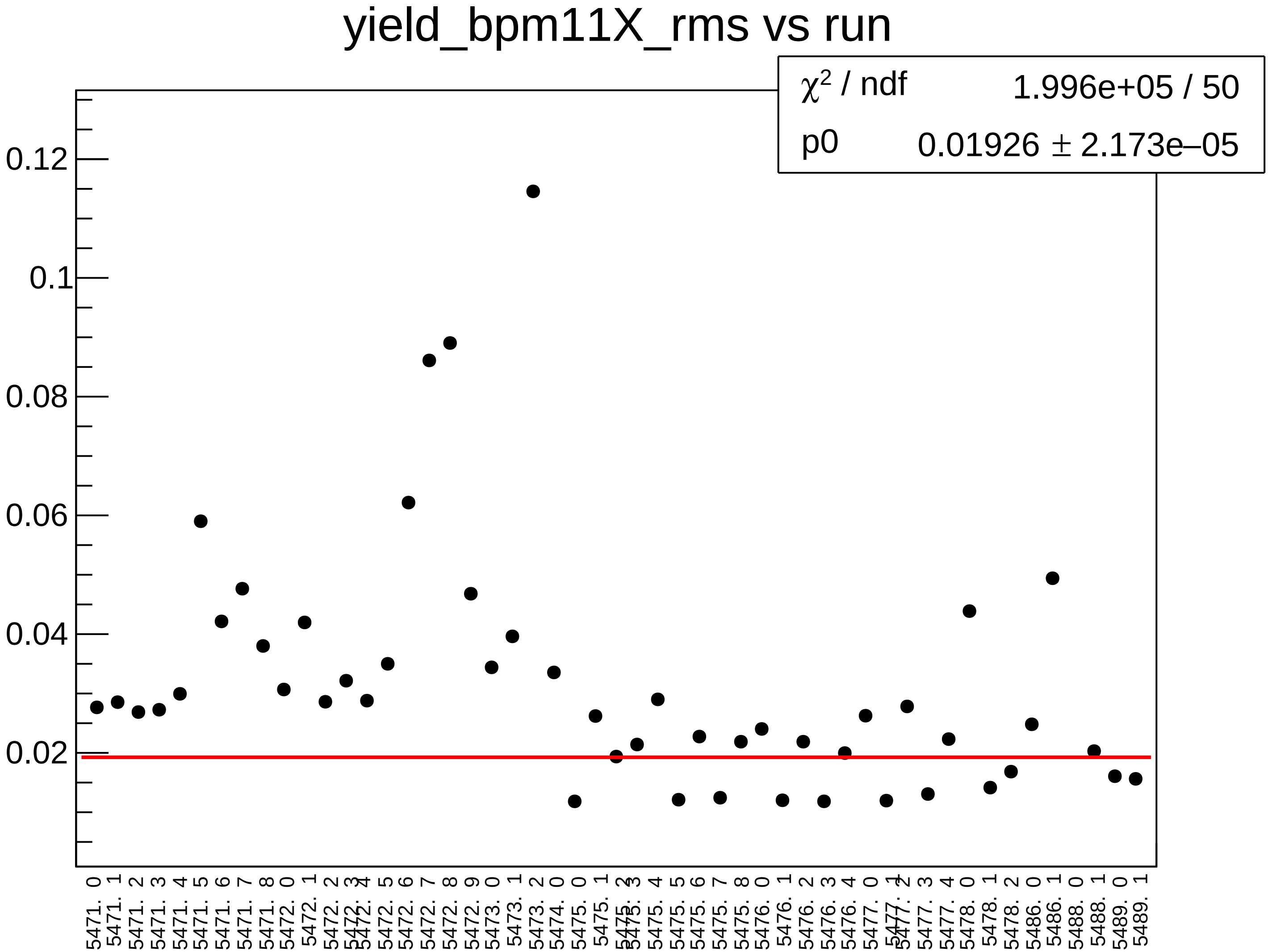
yield_bpm1Y_mean vs run
χ² / ndf 6.726e+07 / 50
p0 1.12 ± 3.142e−05
pull
Entries 51
Mean 59.6
Std Dev 56.98
pull1D
Entries 51
Mean 0
Std Dev 0

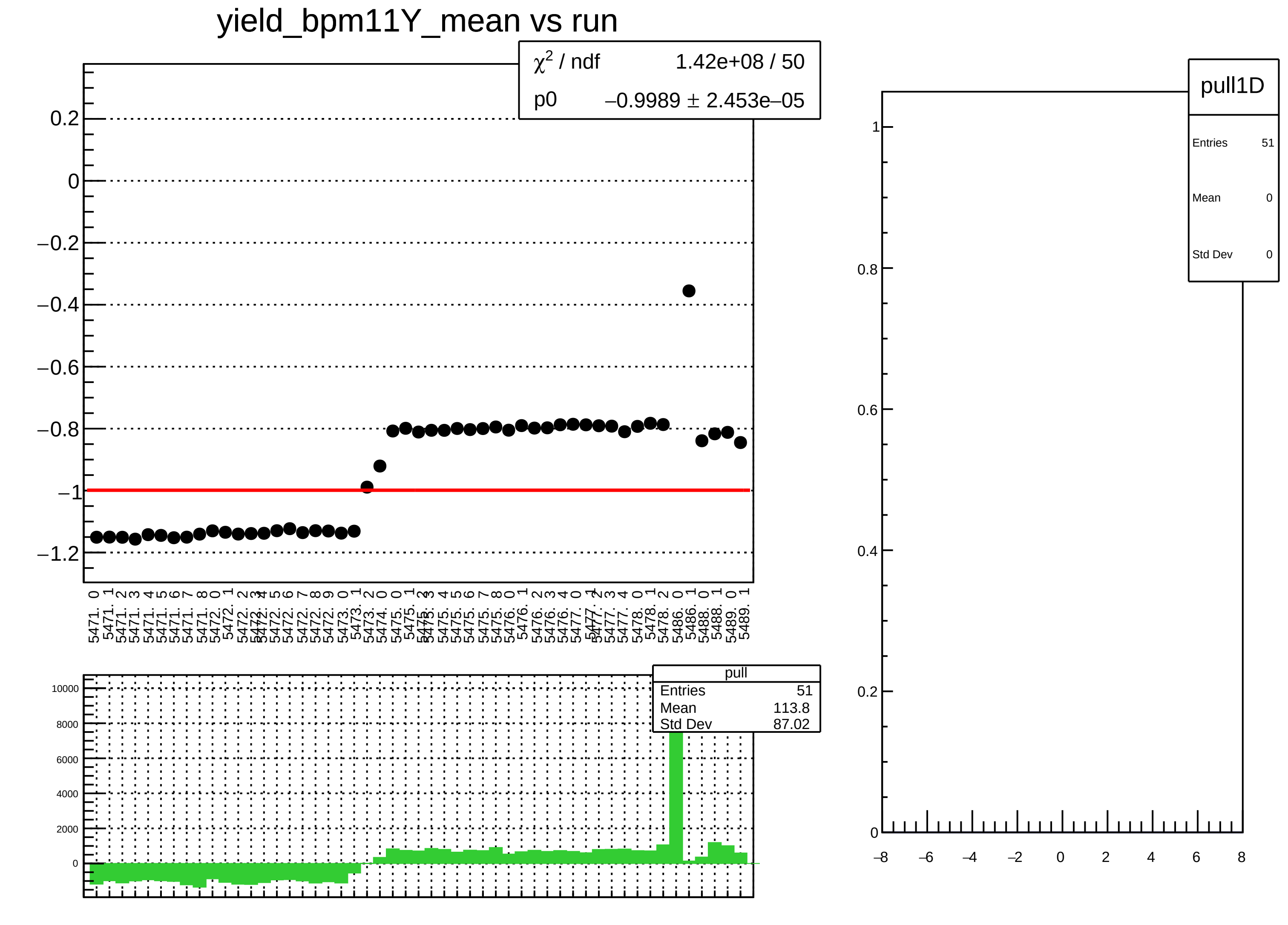


yield_bpm1Y_rms vs run
χ^2 / ndf 8.179e+04 / 50
p0 0.02112 ± 2.222e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

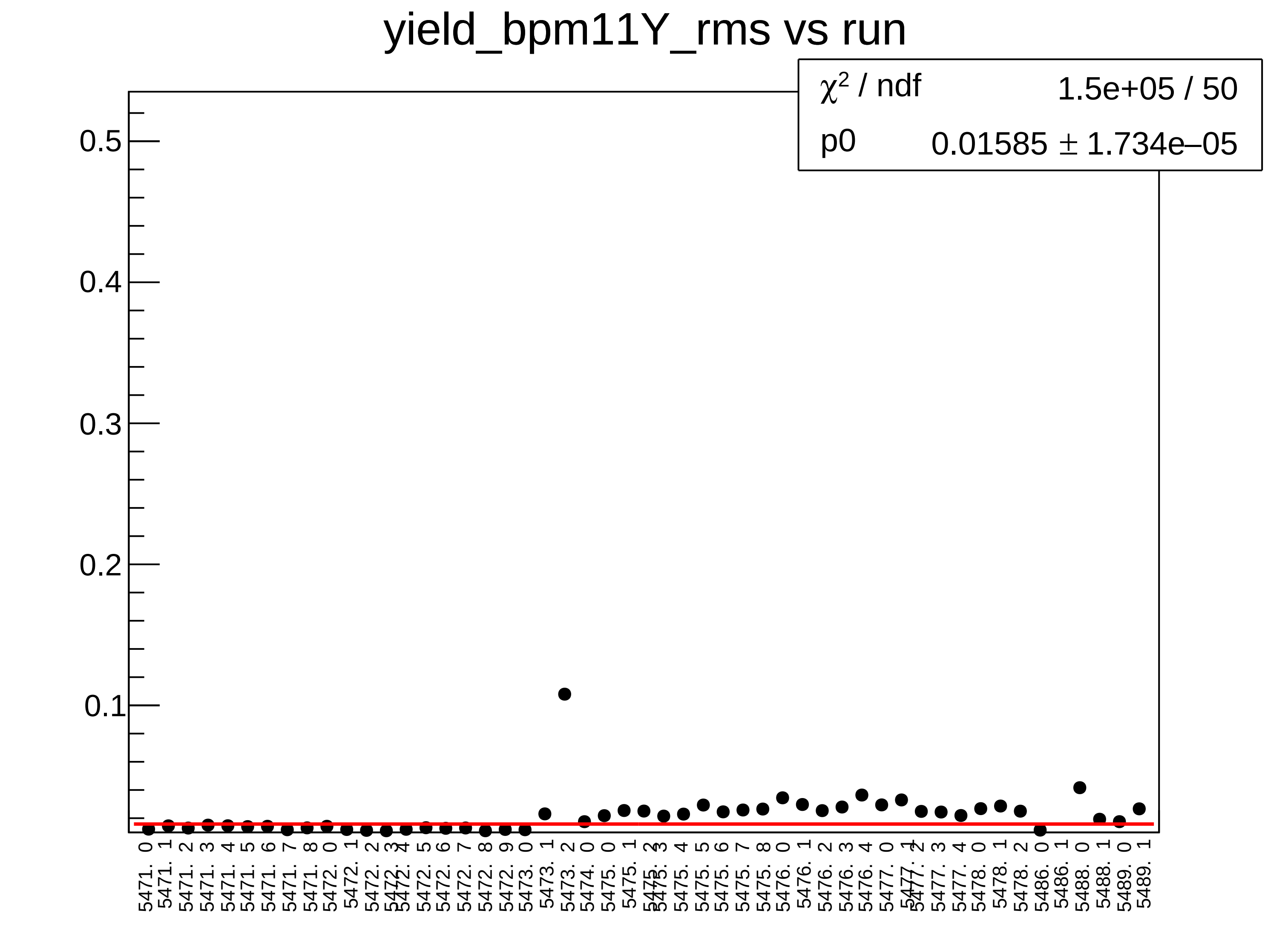


yield_bpm11X_mean vs run
χ^2 / ndf 9.765e+05 / 50
p0 1.114 ± 3.073e−05
pull
Entries 51
Mean −3.615
Std Dev 13.62
pull1D
Entries 51
Mean −6.234
Std Dev 1.326

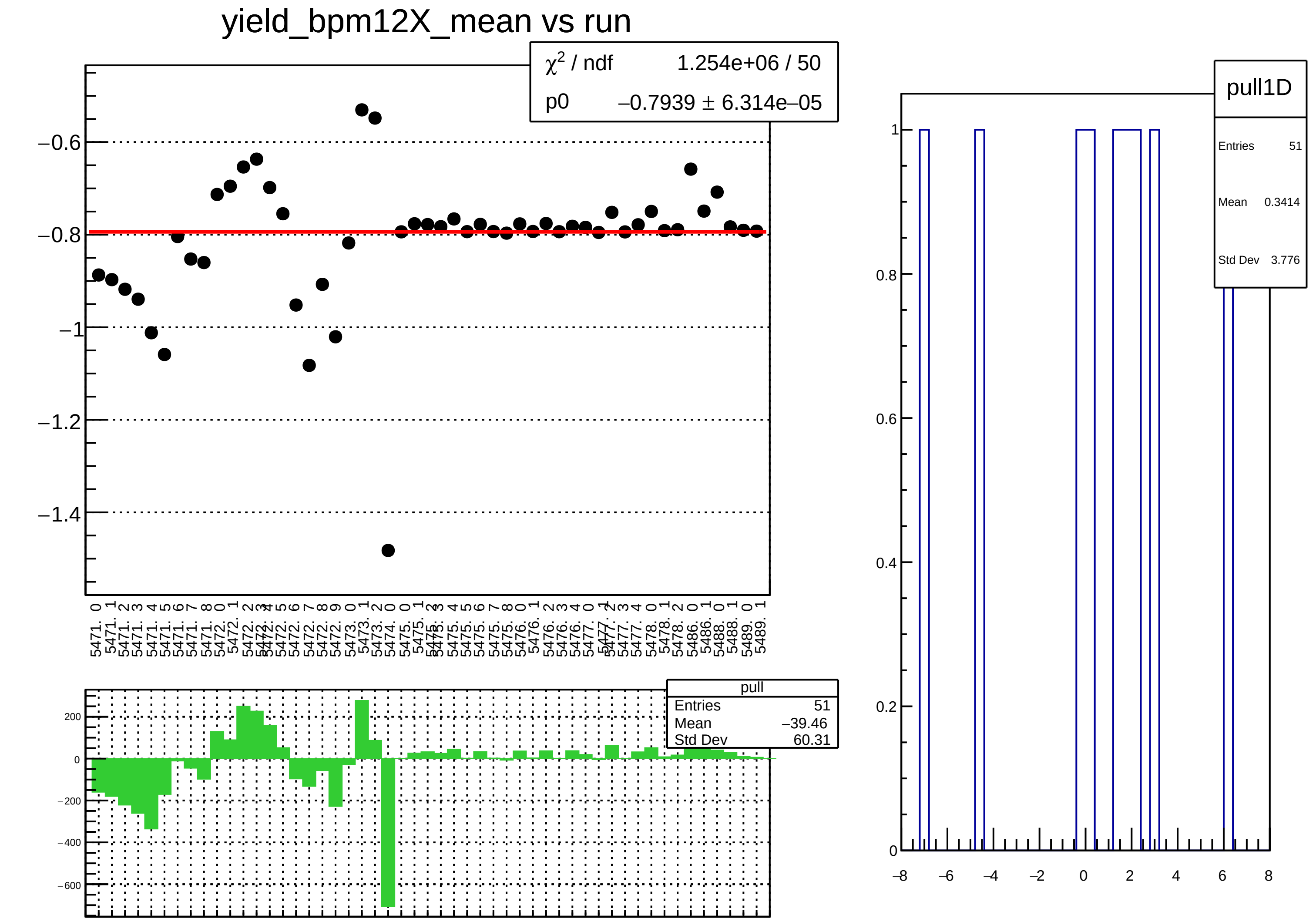

yield_bpm11X_rms vs run
χ^2 / ndf 1.996e+05 / 50
p0 0.01926 ± 2.173e–05
0.12
0.1
0.08
0.06
0.04
0.02



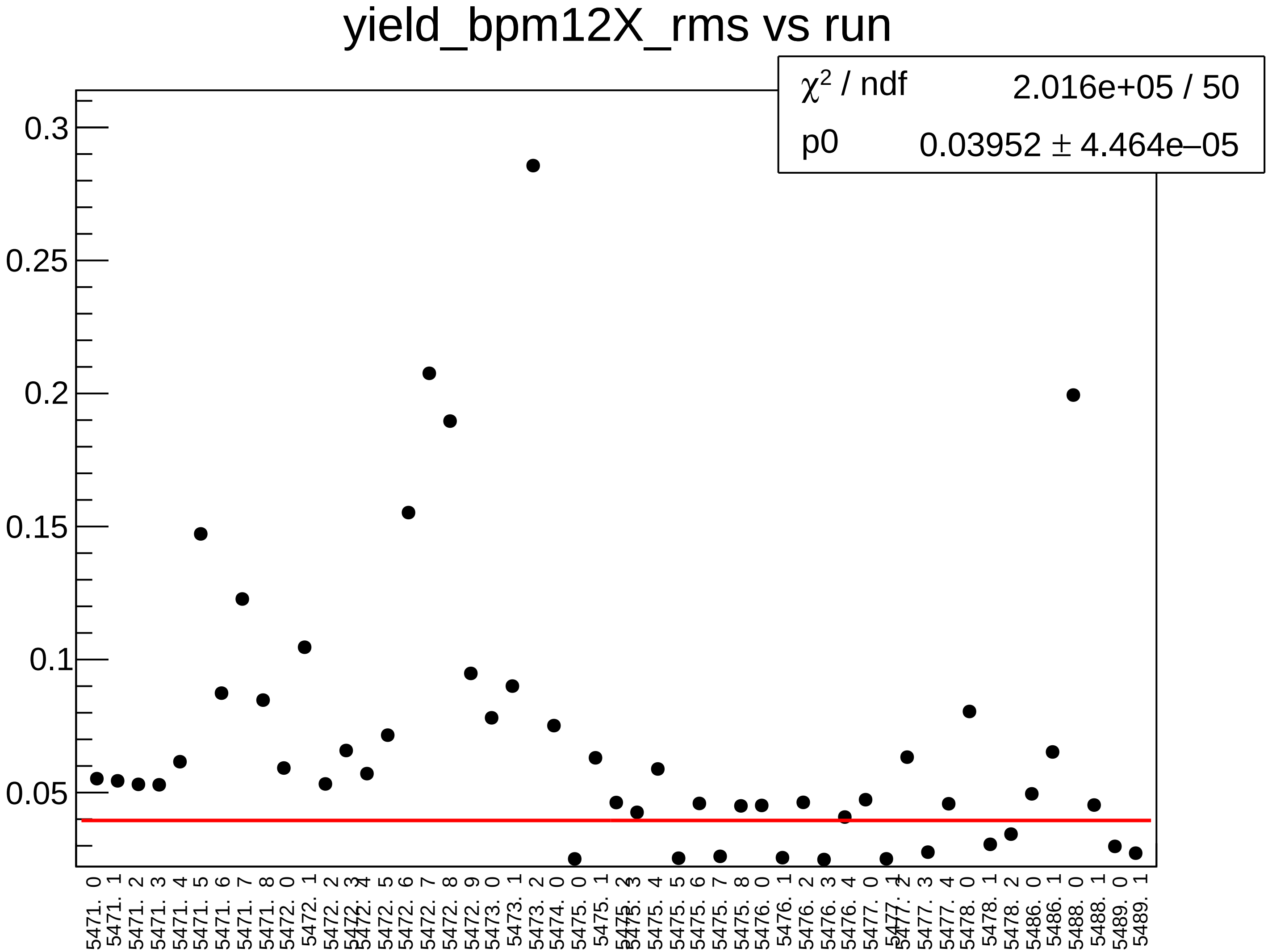
yield_bpm11Y_mean vs run
χ^2 / ndf 1.42e+08 / 50
p0 −0.9989 ± 2.453e−05
pull
Entries 51
Mean 113.8
Std Dev 87.02
pull1D
Entries 51
Mean 0
Std Dev 0



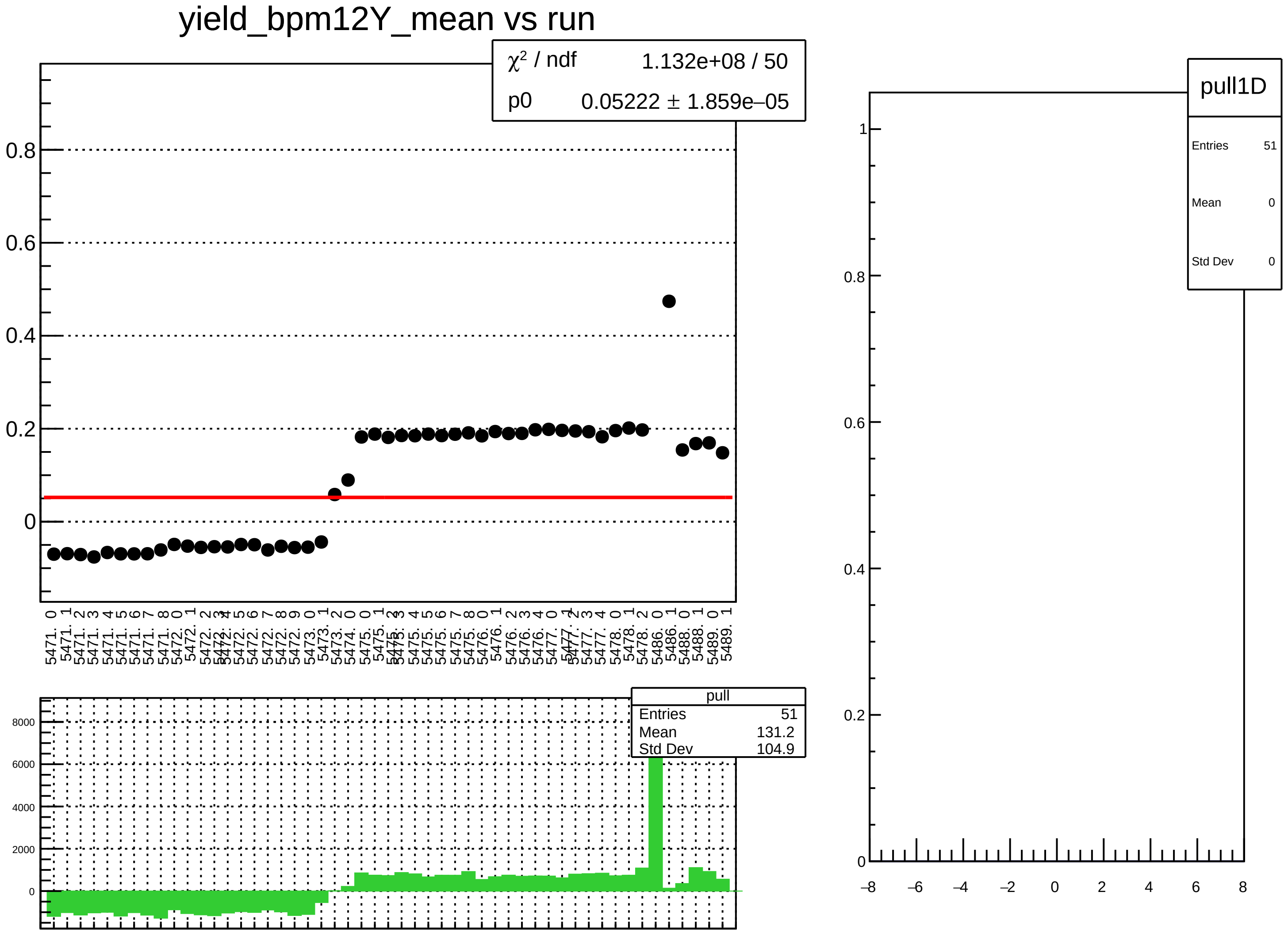
yield_bpm11Y_rms vs run
χ^2 / ndf 1.5e+05 / 50
p0 0.01585 ± 1.734e−05
0.5
0.4
0.3
0.2
0.1



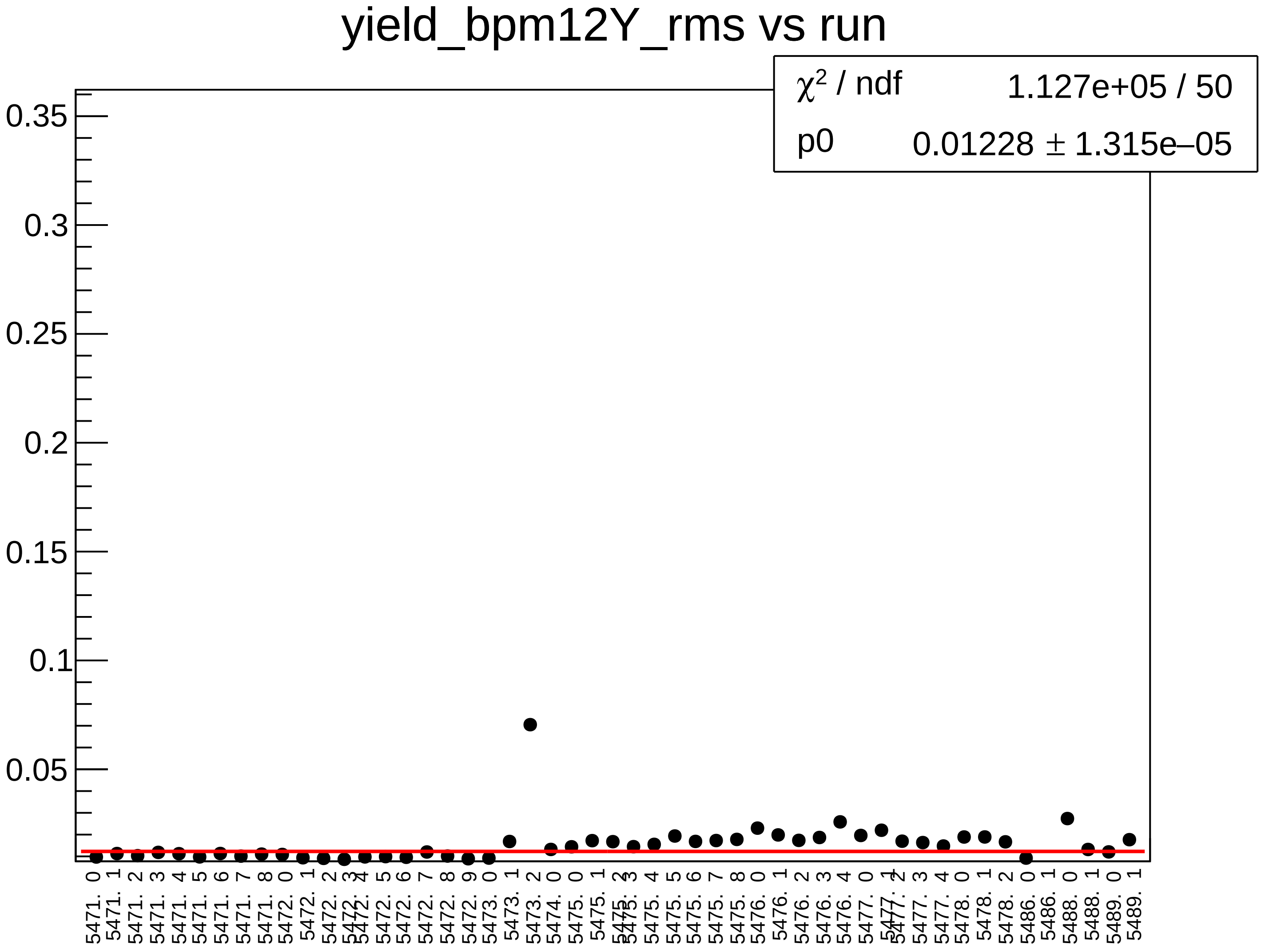
yield_bpm12X_mean vs run
χ2 / ndf 1.254e+06 / 50
p0 −0.7939 ± 6.314e−05
pull
Entries 51
Mean −39.46
Std Dev 60.31
pull1D
Entries 51
Mean 0.3414
Std Dev 3.776



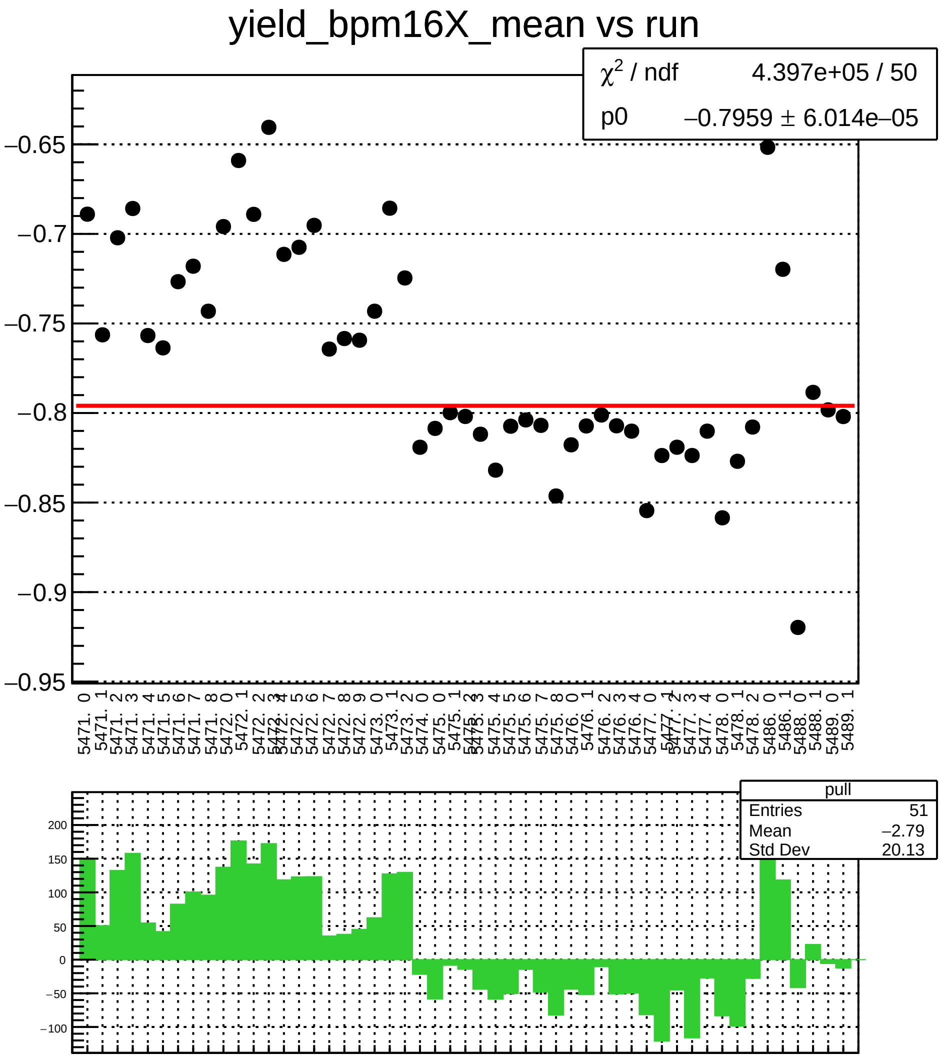
yield_bpm12X_rms vs run
χ2 / ndf 2.016e+05 / 50
p0 0.03952 ± 4.464e−05
0.3
0.25
0.2
0.15
0.1
0.05
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



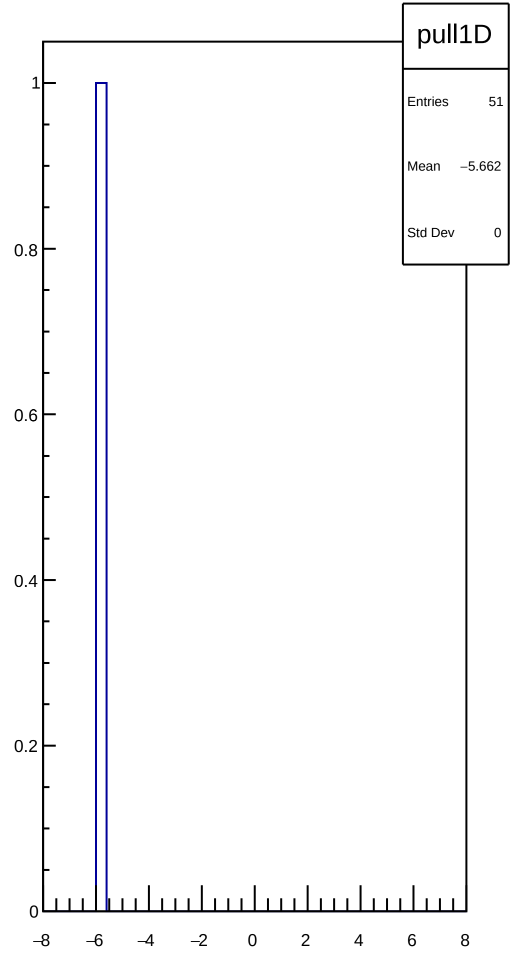
yield_bpm12Y_mean vs run
χ2 / ndf 1.132e+08 / 50
p0 0.05222 ± 1.859e−05
0.8
0.6
0.4
0.2
0
pull
Entries 51
Mean 131.2
Std Dev 104.9
8000
6000
4000
2000
0
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



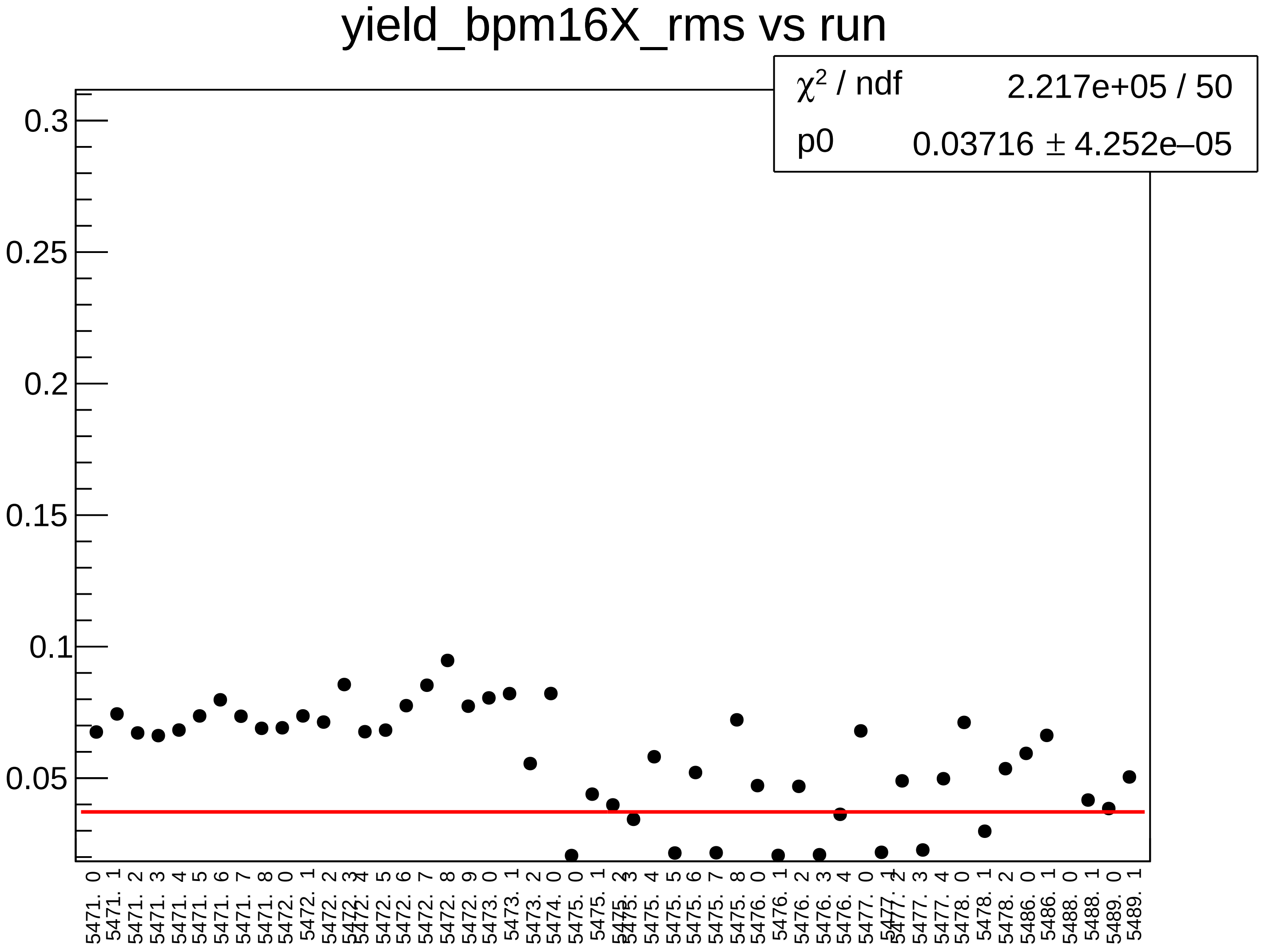
yield_bpm12Y_rms vs run
χ² / ndf 1.127e+05 / 50
p0 0.01228 ± 1.315e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05



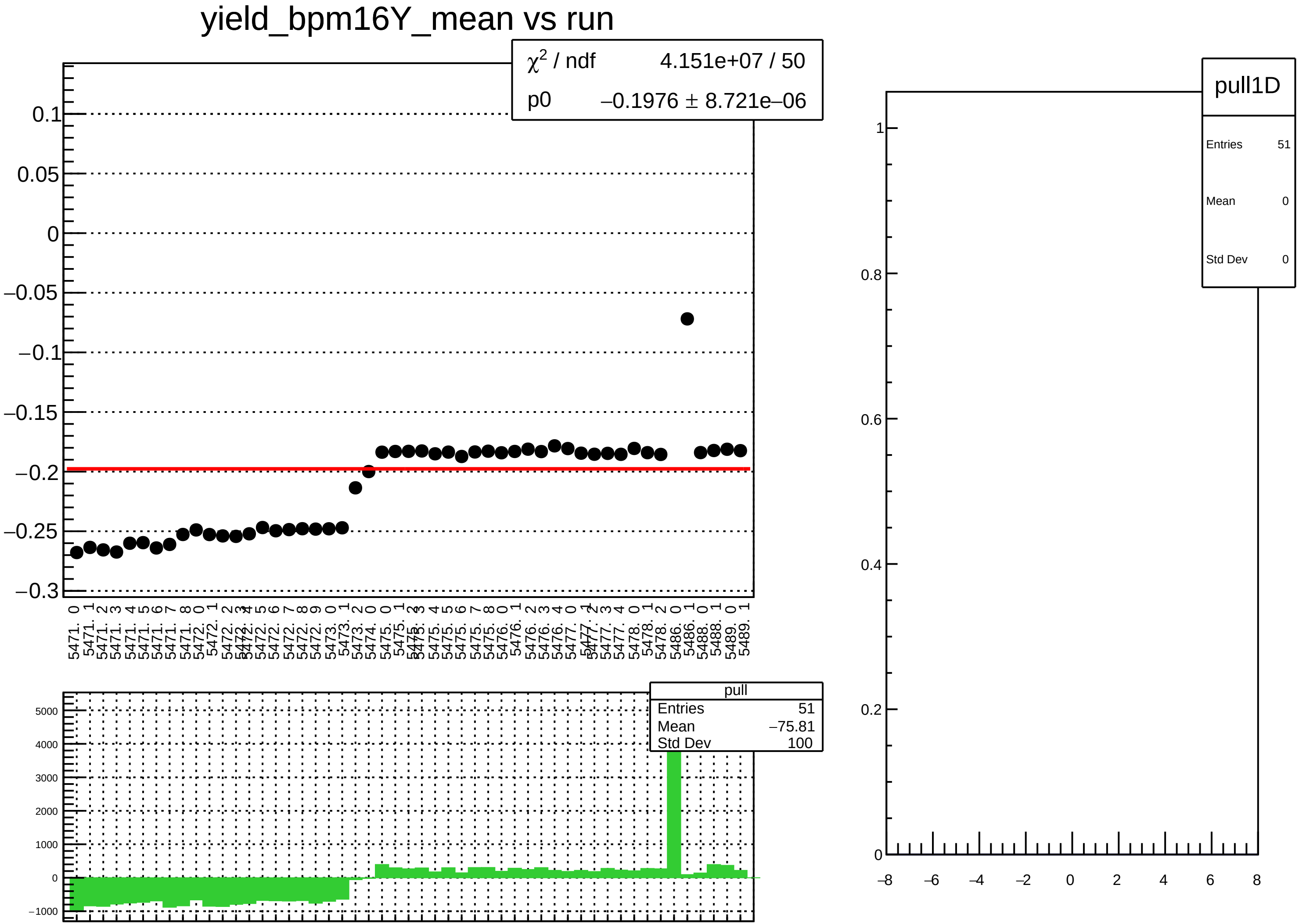
yield_bpm16X_mean vs run
χ^2 / ndf 4.397e+05 / 50
p0 −0.7959 ± 6.014e−05
pull
Entries 51
Mean −2.79
Std Dev 20.13



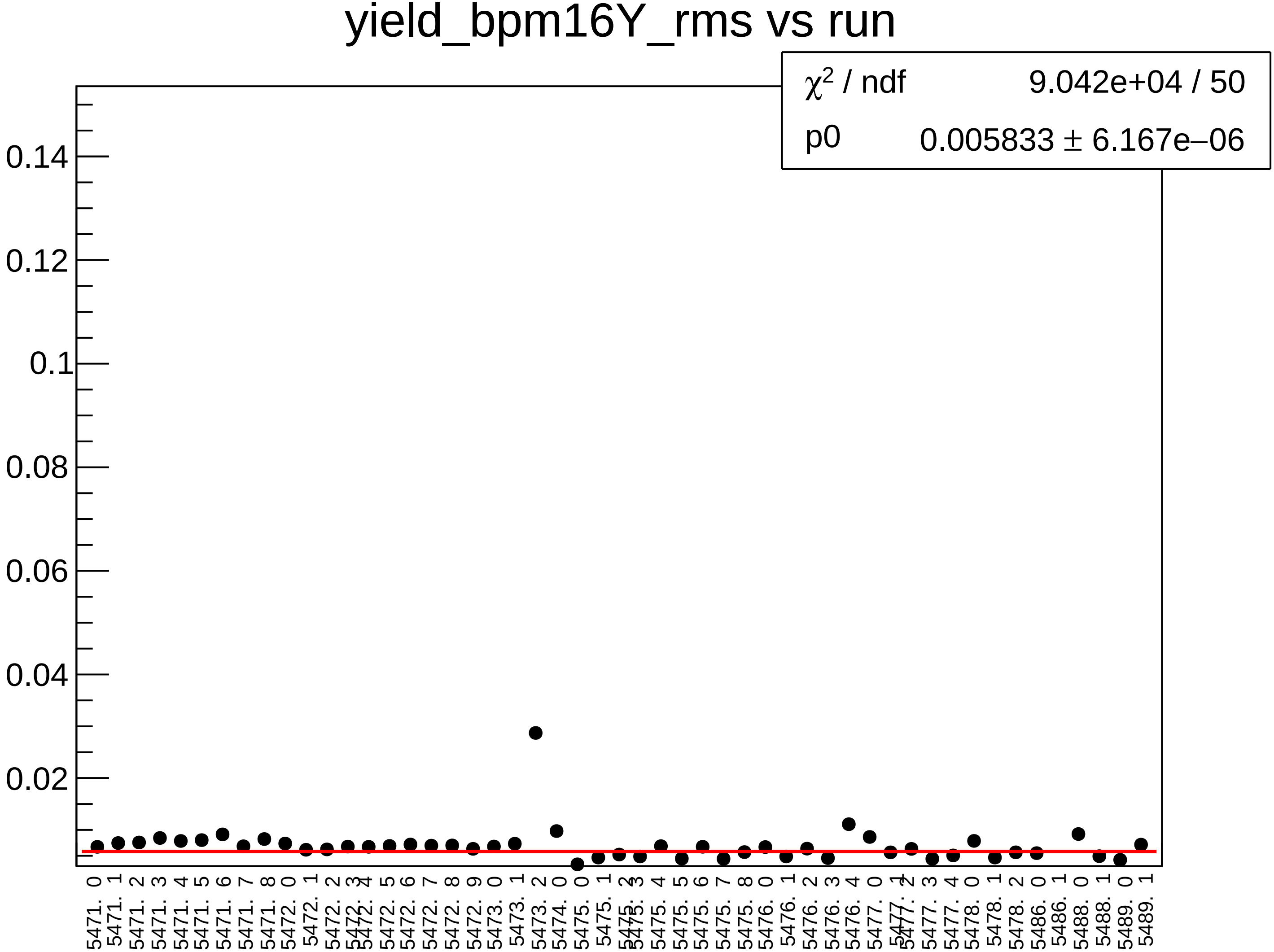
pull1D
Entries 51
Mean −5.662
Std Dev 0



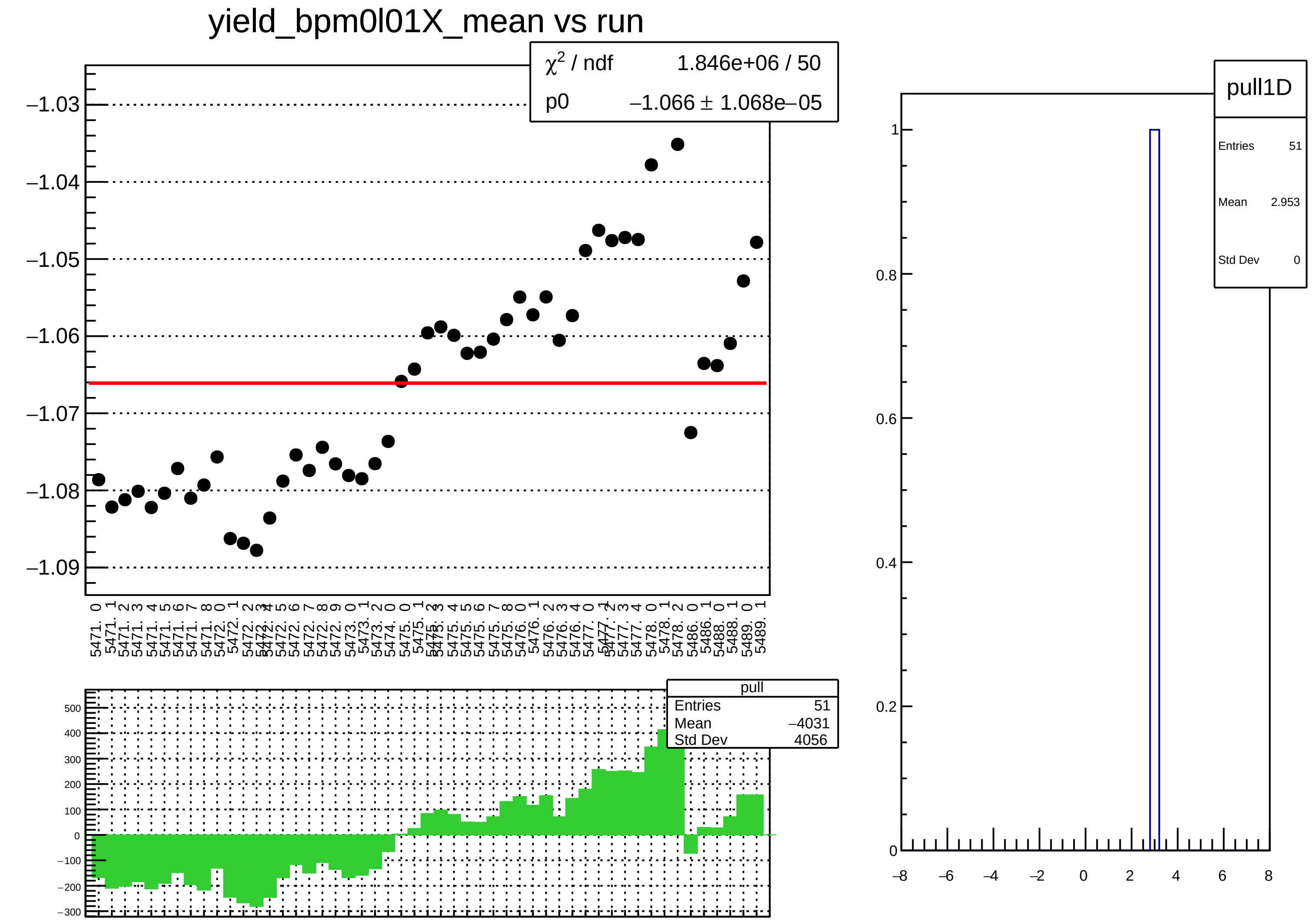
yield_bpm16X_rms vs run
χ^2 / ndf 2.217e+05 / 50
p0 0.03716 ± 4.252e−05
0.3
0.25
0.2
0.15
0.1
0.05



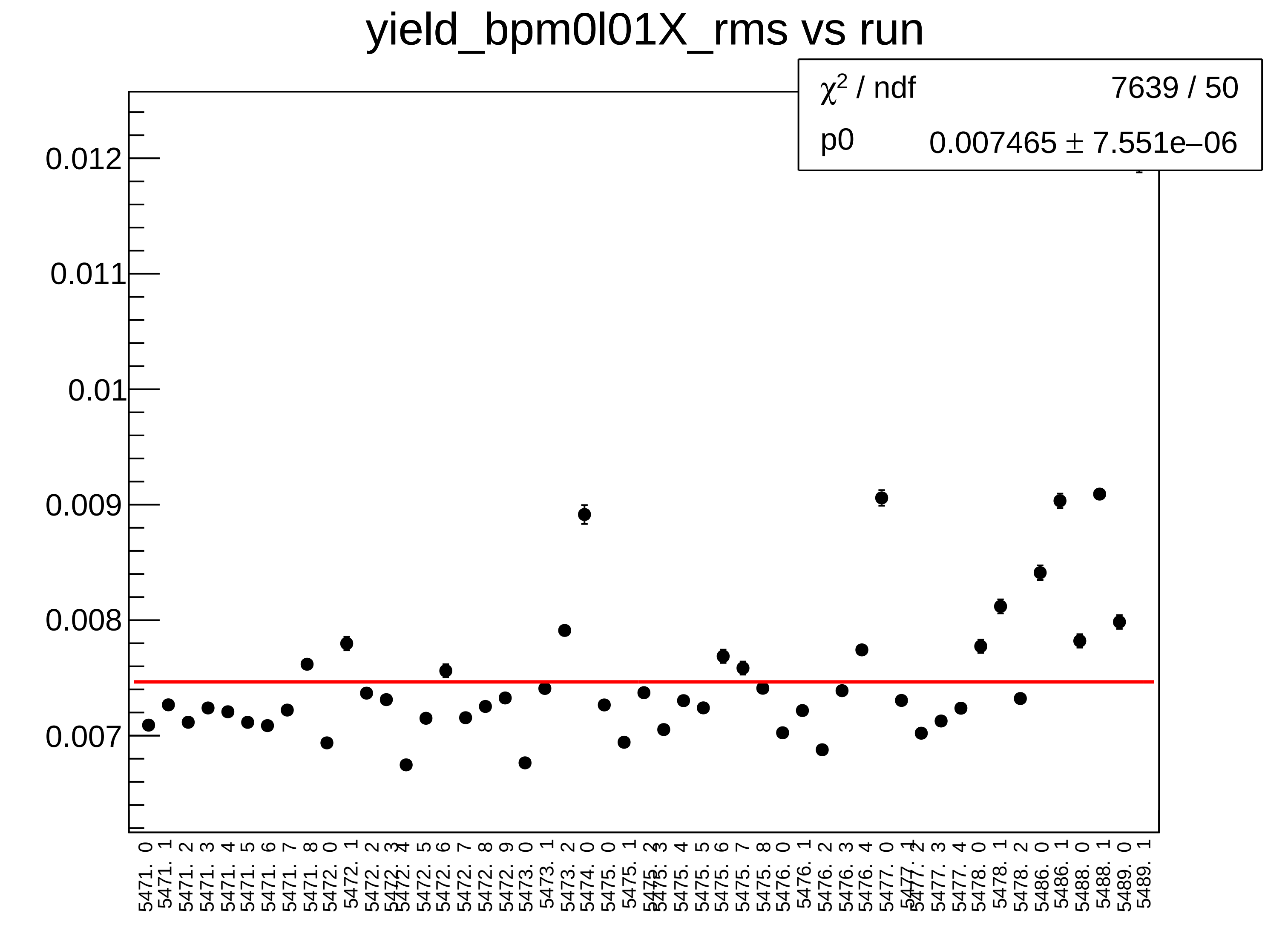
yield_bpm16Y_mean vs run
χ^2 / ndf 4.151e+07 / 50
p0 −0.1976 ± 8.721e−06
pull
Entries 51
Mean −75.81
Std Dev 100
pull1D
Entries 51
Mean 0
Std Dev 0

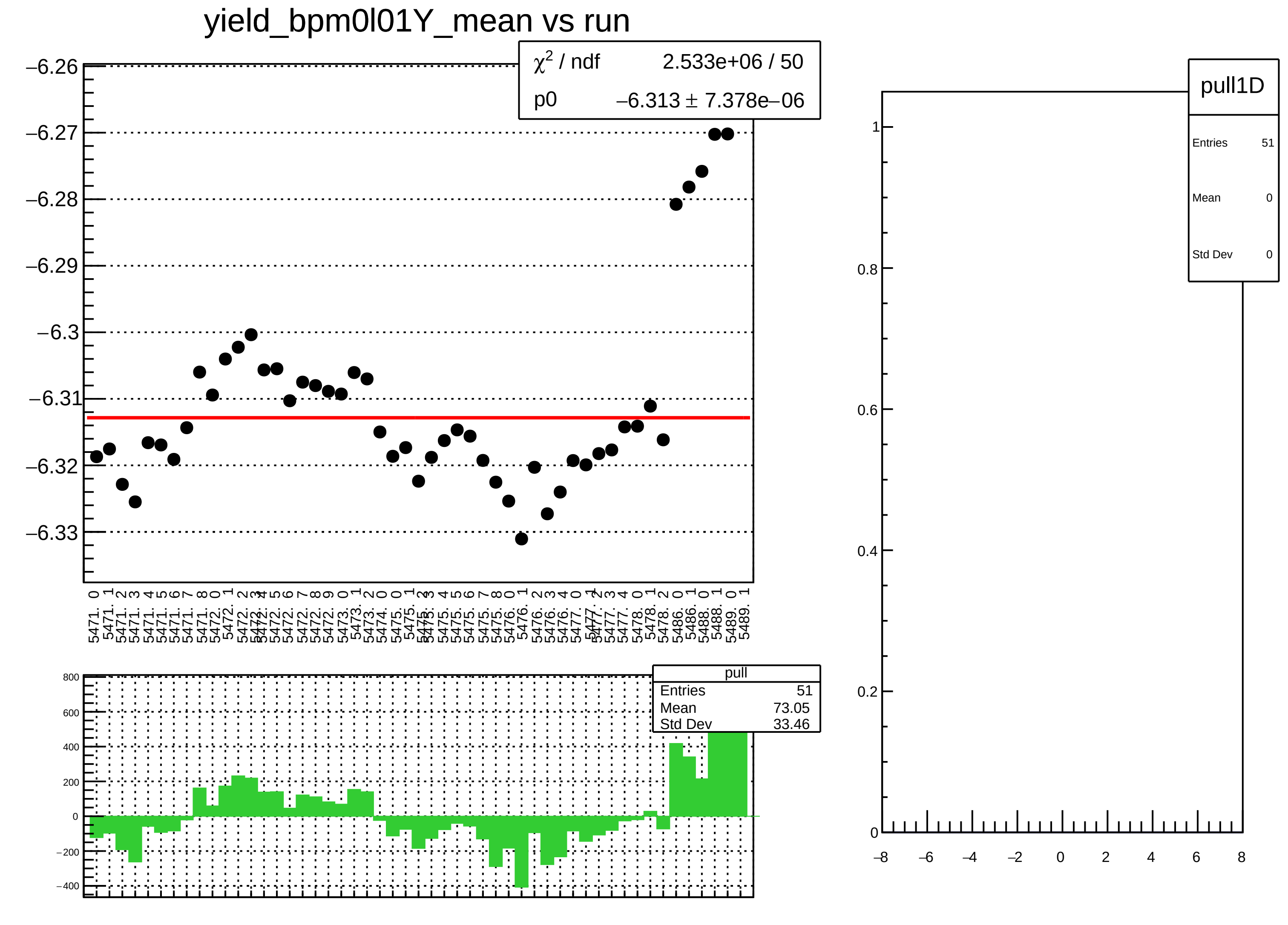


yield_bpm16Y_rms vs run
χ^2 / ndf 9.042e+04 / 50
p0 0.005833 ± 6.167e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

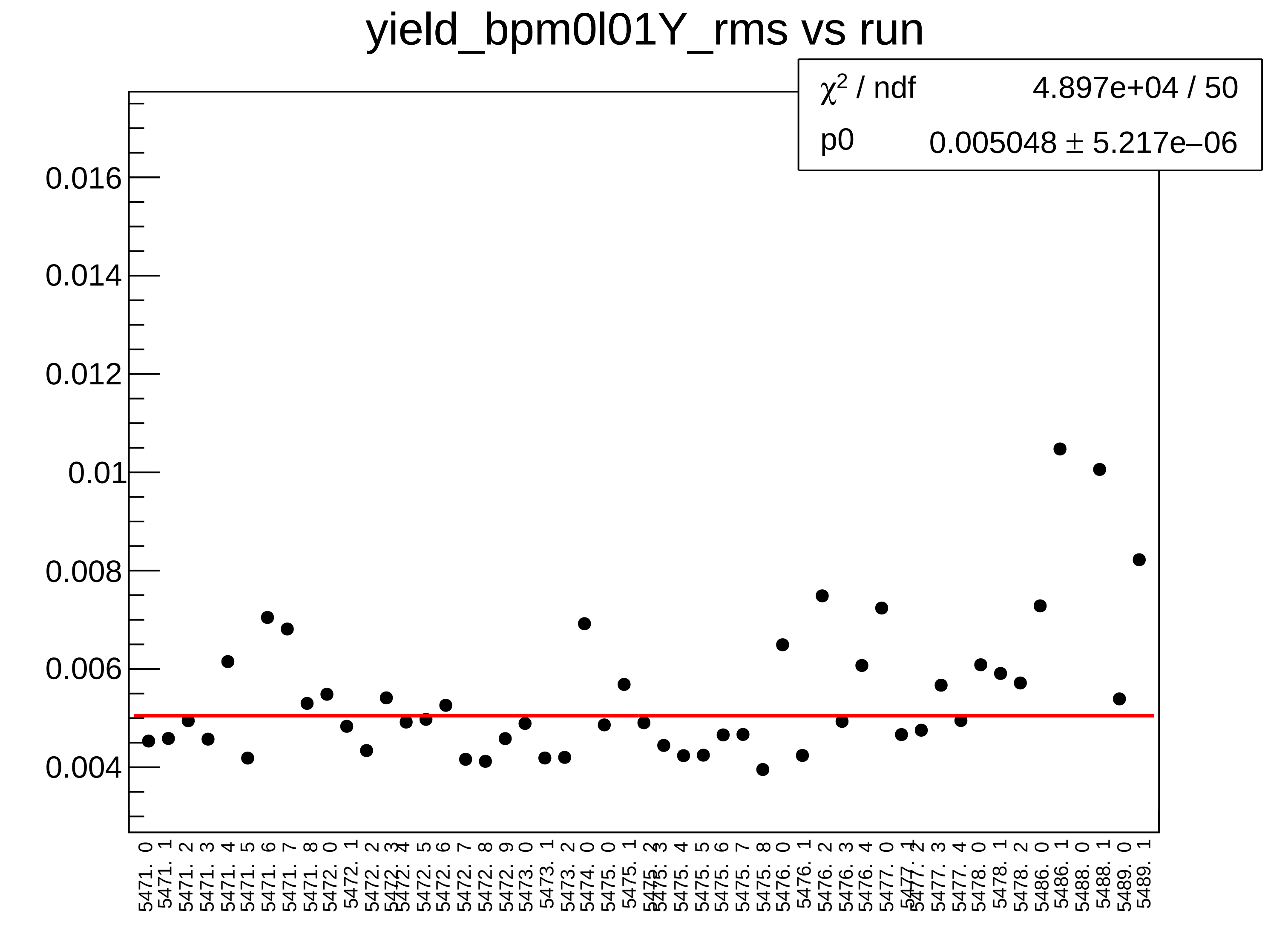


yield_bpm0l01X_mean vs run
χ2 / ndf 1.846e+06 / 50
p0 −1.066 ± 1.068e−05
pull
Entries 51
Mean −4031
Std Dev 4056
pull1D
Entries 51
Mean 2.953
Std Dev 0

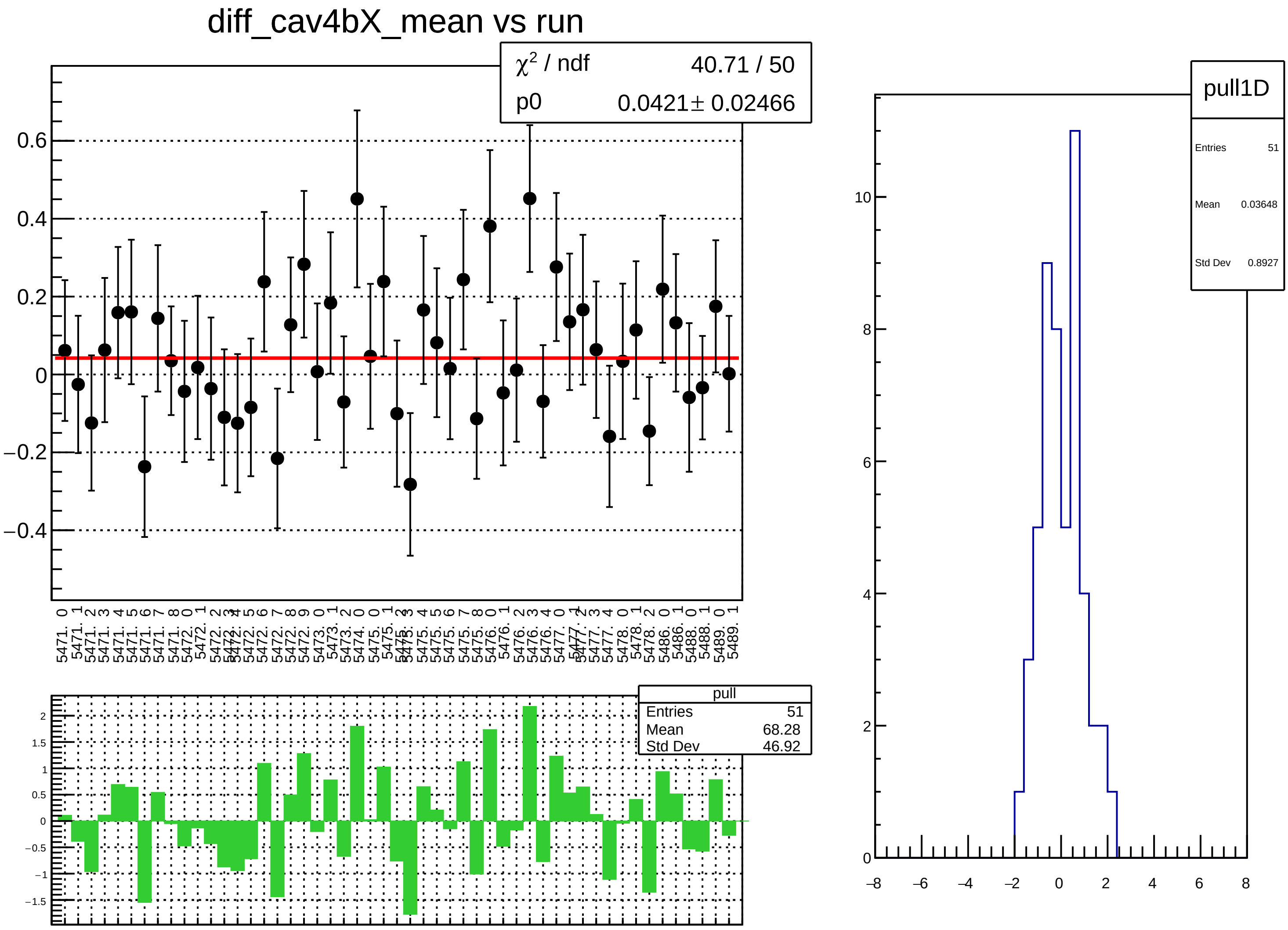

yield_bpm0l01X_rms vs run
χ^2 / ndf 7639 / 50
p0 0.007465 ± 7.551e−06
0.012
0.011
0.01
0.009
0.008
0.007



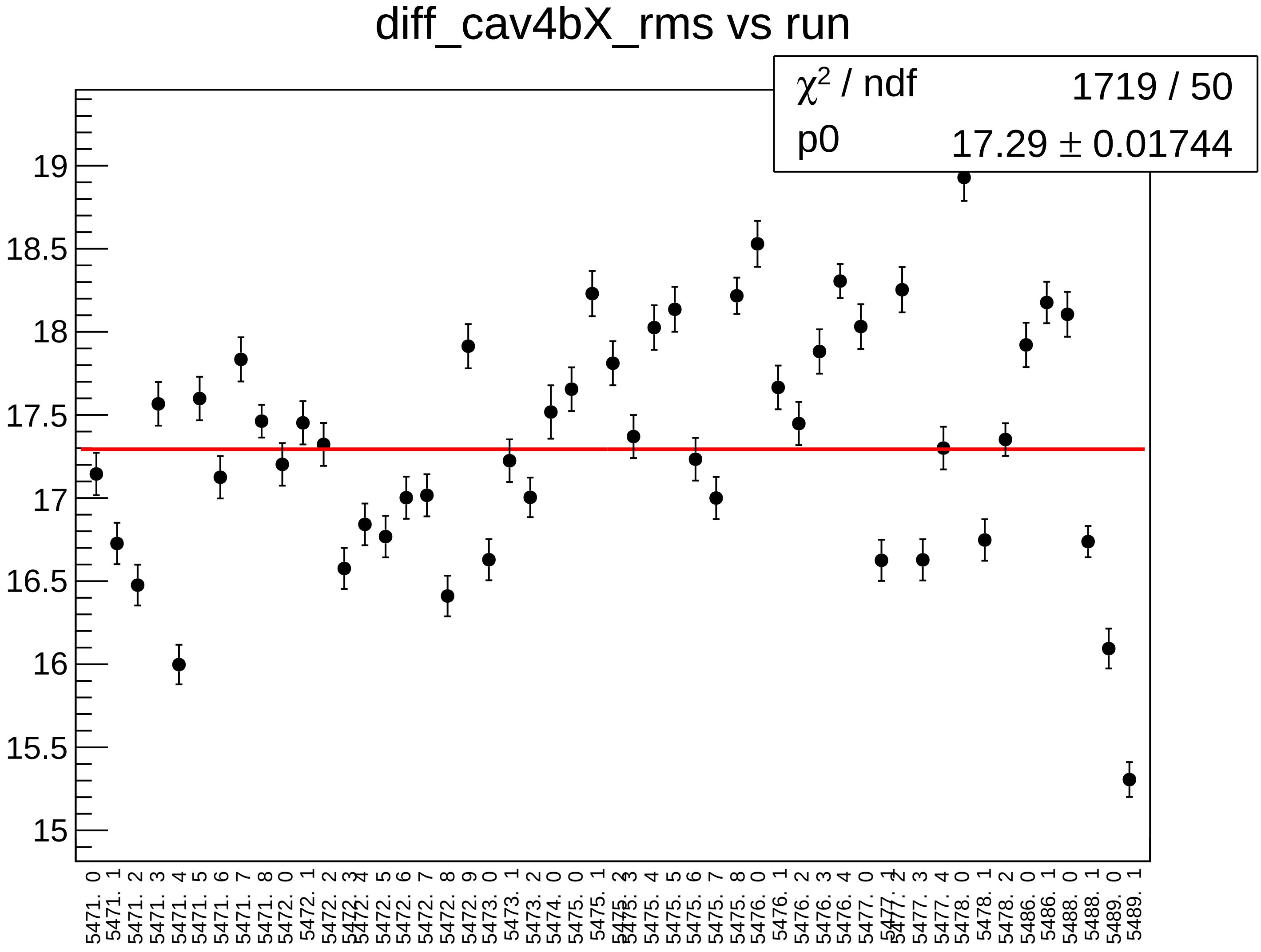
yield_bpm0l01Y_mean vs run
χ^2 / ndf 2.533e+06 / 50
p0 −6.313 ± 7.378e−06
−6.26
−6.27
−6.28
−6.29
−6.3
−6.31
−6.32
−6.33
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 73.05
Std Dev 33.46
800
600
400
200
0
−200
−400
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



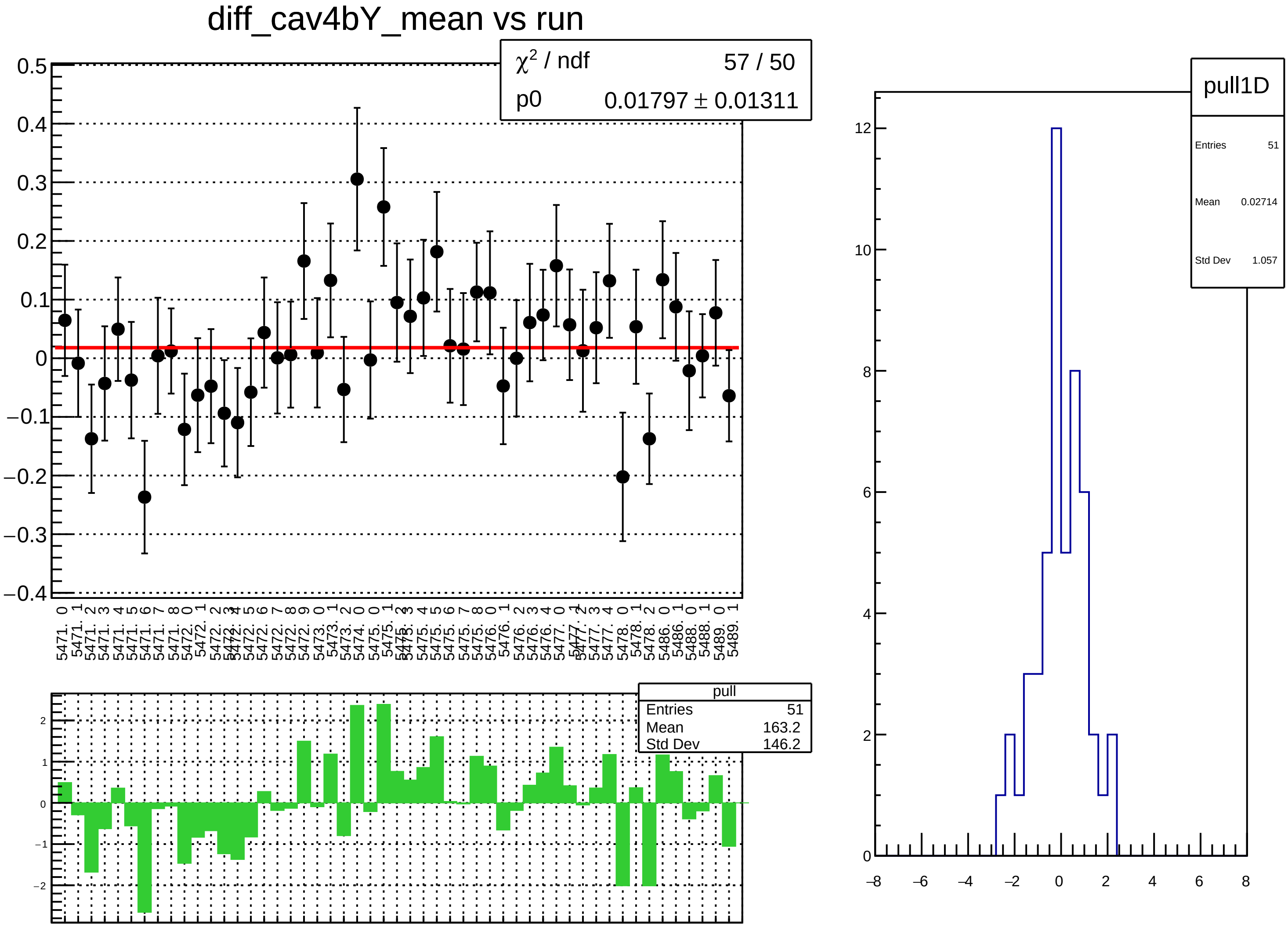
yield_bpm0l01Y_rms vs run
χ2 / ndf 4.897e+04 / 50
p0 0.005048 ± 5.217e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004



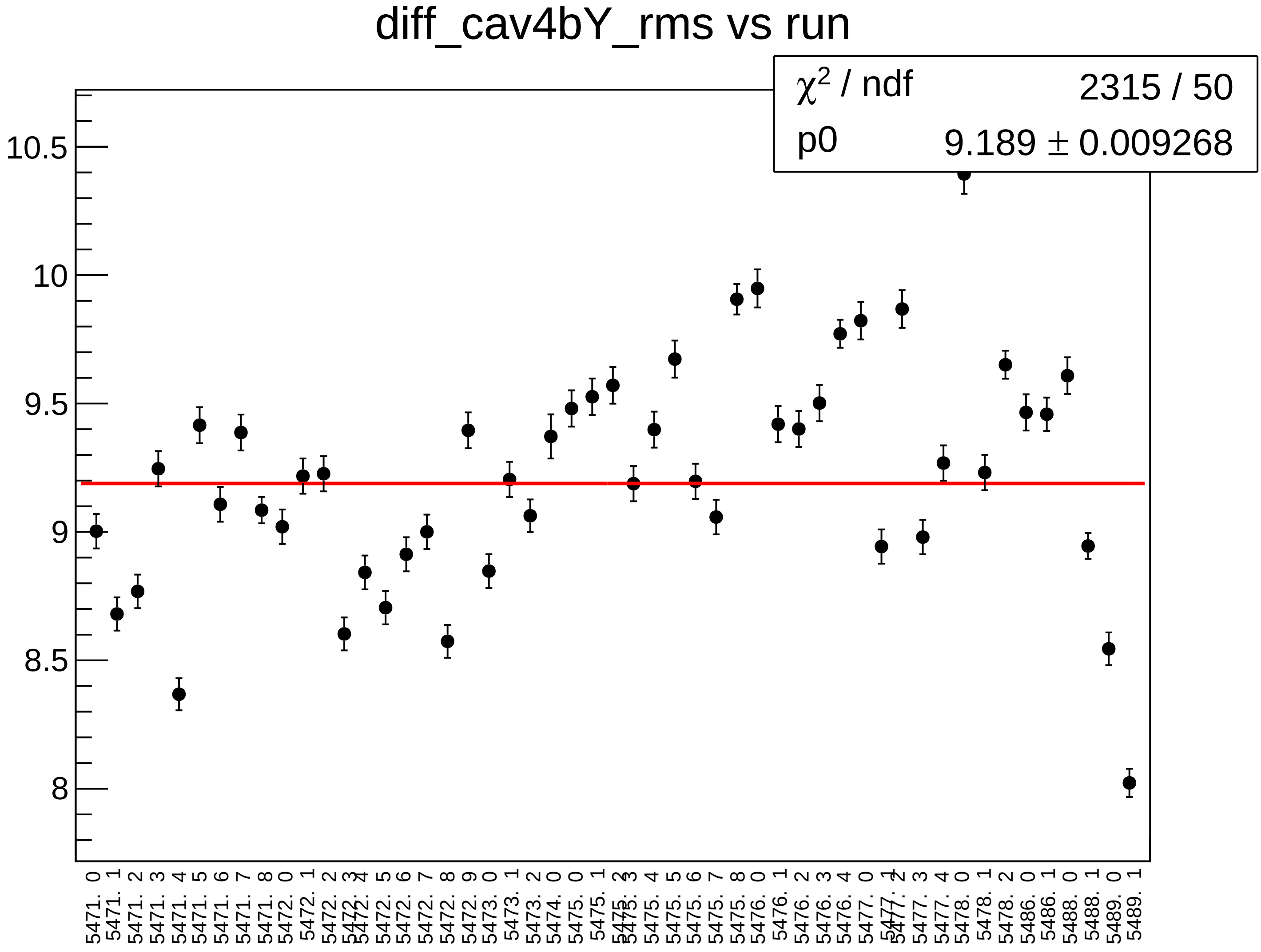
diff_cav4bX_mean vs run
χ^2 / ndf 40.71 / 50
p0 0.0421 ± 0.02466
pull
Entries 51
Mean 68.28
Std Dev 46.92
pull1D
Entries 51
Mean 0.03648
Std Dev 0.8927



diff_cav4bX_rms vs run
χ^2 / ndf 1719 / 50
p0 17.29 ± 0.01744
19
18.5
18
17.5
17
16.5
16
15.5
15



diff_cav4bY_mean vs run
χ^2 / ndf 57 / 50
p0 0.01797 ± 0.01311
pull
Entries 51
Mean 163.2
Std Dev 146.2
pull1D
Entries 51
Mean 0.02714
Std Dev 1.057



diff_cav4bY_rms vs run
χ^2 / ndf 2315 / 50
p0 9.189 ± 0.009268
10.5
10
9.5
9
8.5
8
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
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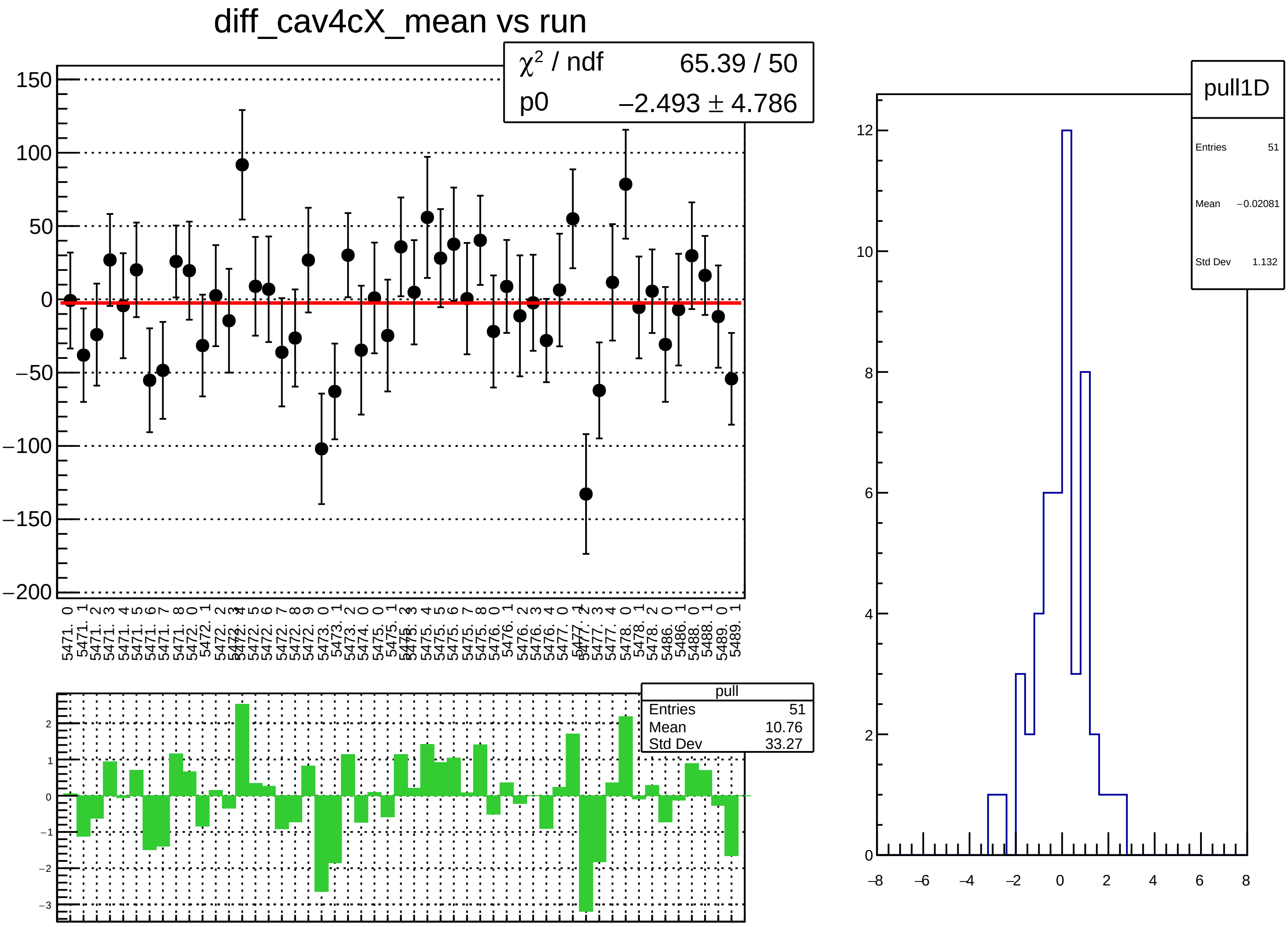
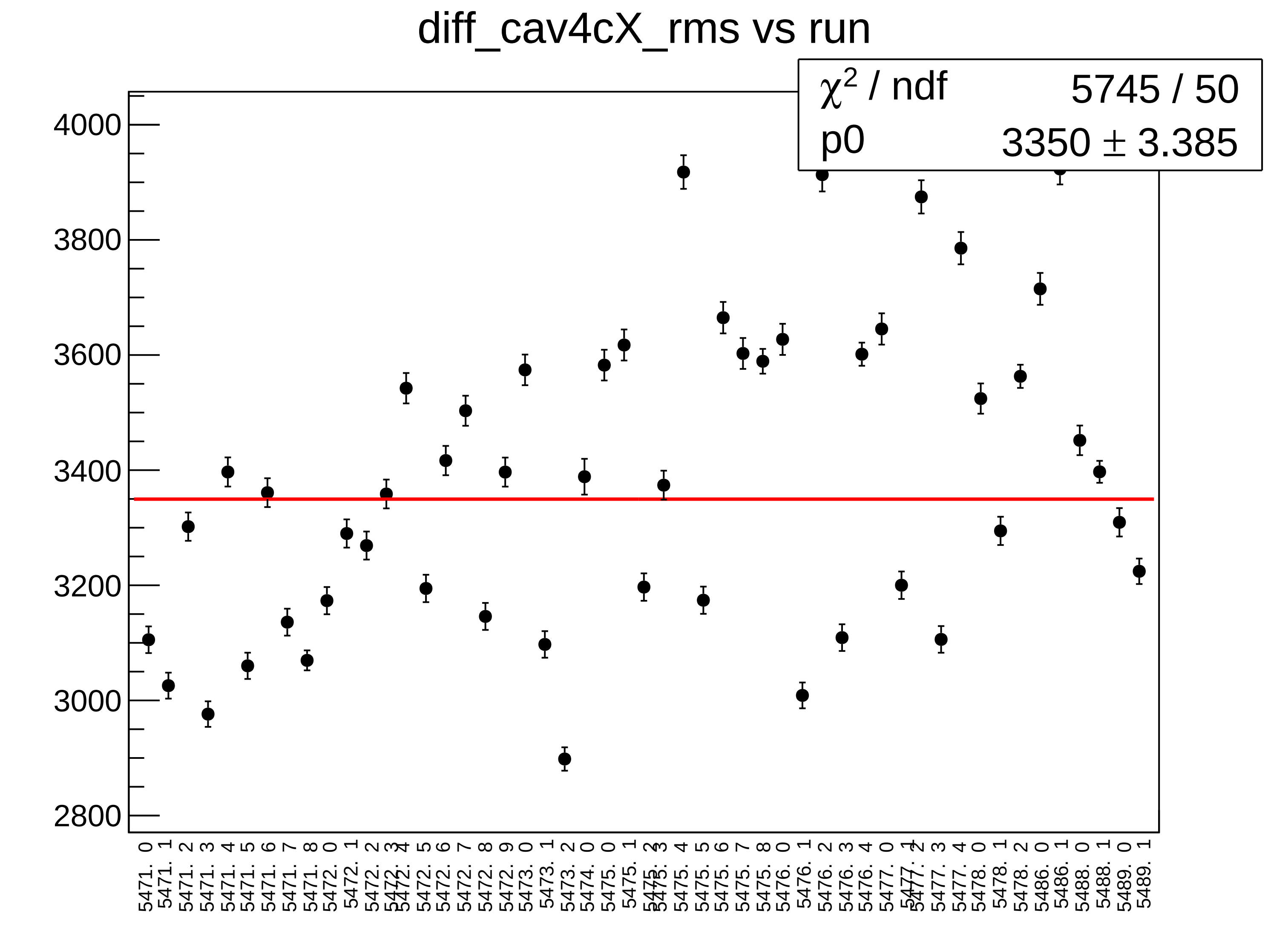
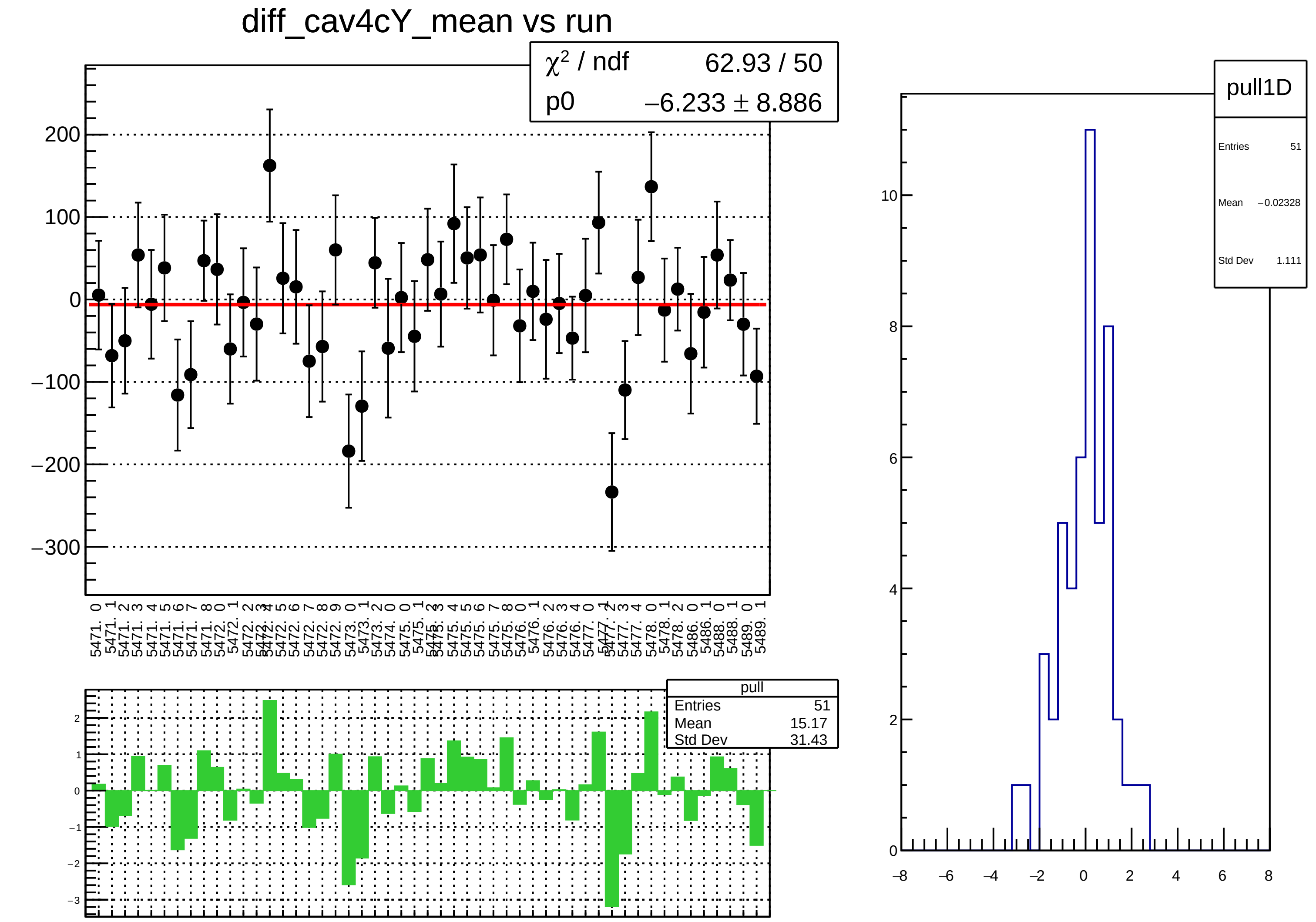
5488. 0
5488. 1
5489. 0
5489. 1

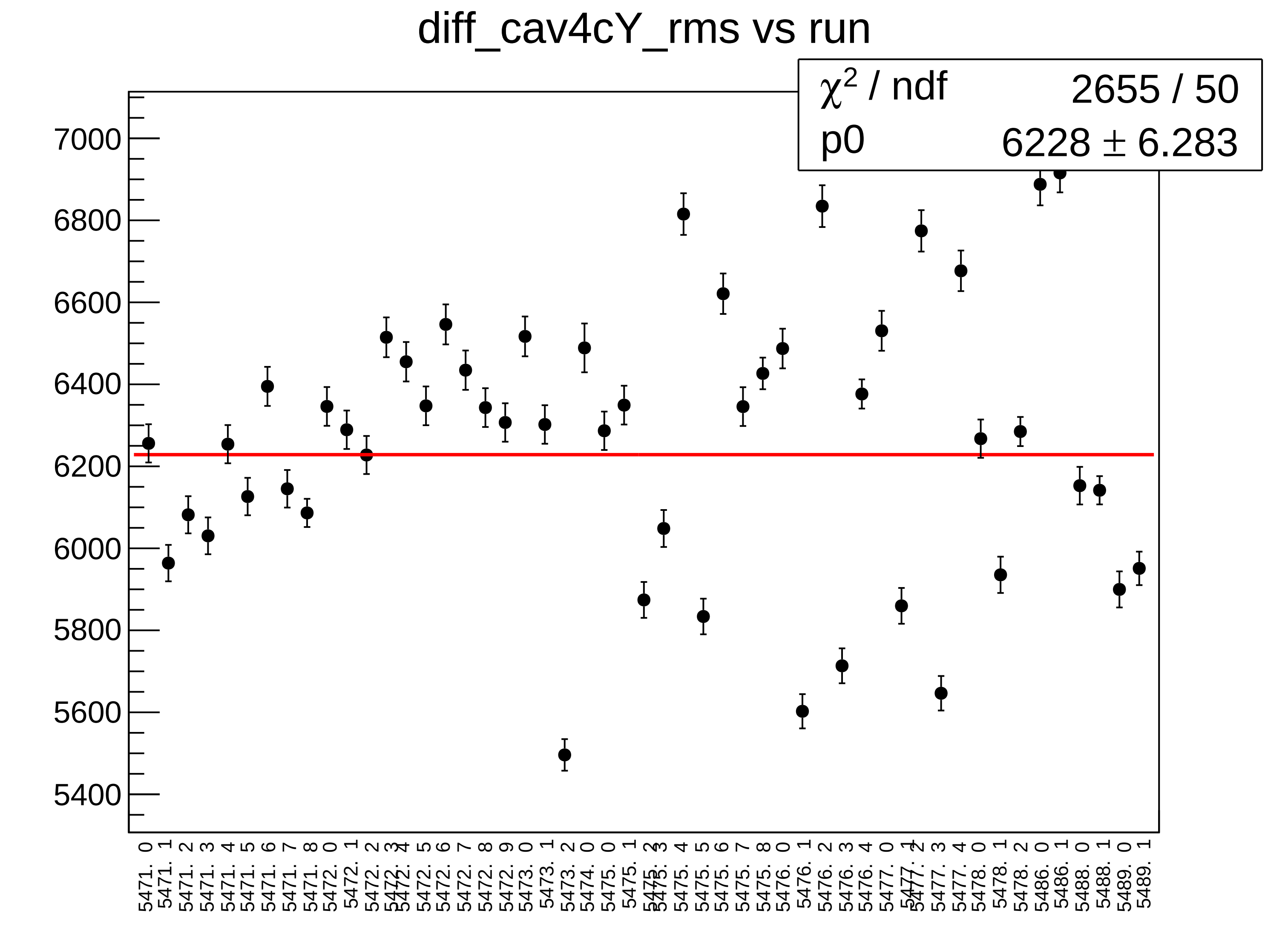


diff_cav4cX_mean vs run
χ^2 / ndf 65.39 / 50
p0 −2.493 ± 4.786
pull
Entries 51
Mean 10.76
Std Dev 33.27
pull1D
Entries 51
Mean −0.02081
Std Dev 1.132

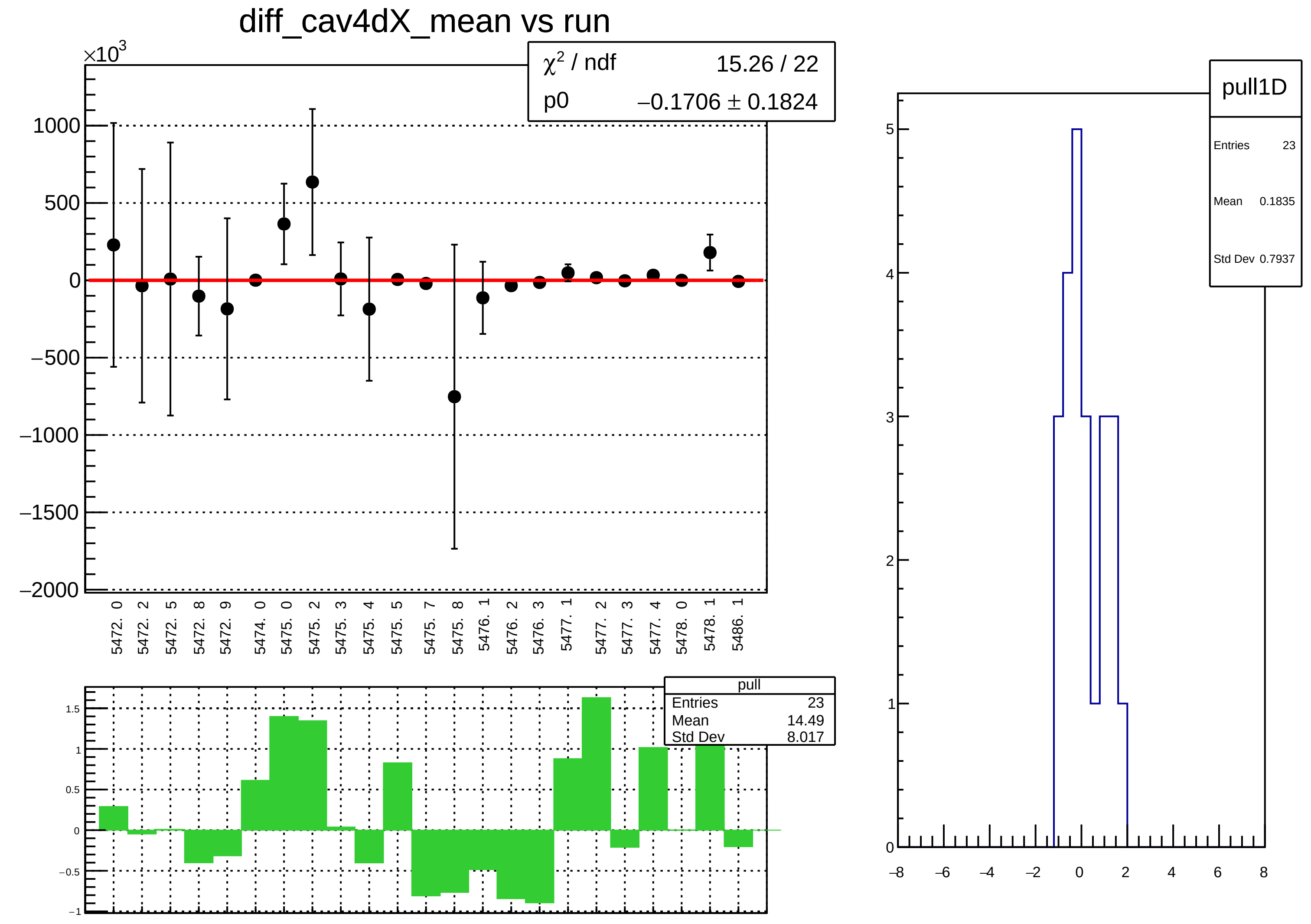

diff_cav4cX_rms vs run
χ2 / ndf 5745 / 50
p0 3350 ± 3.385
4000
3800
3600
3400
3200
3000
2800



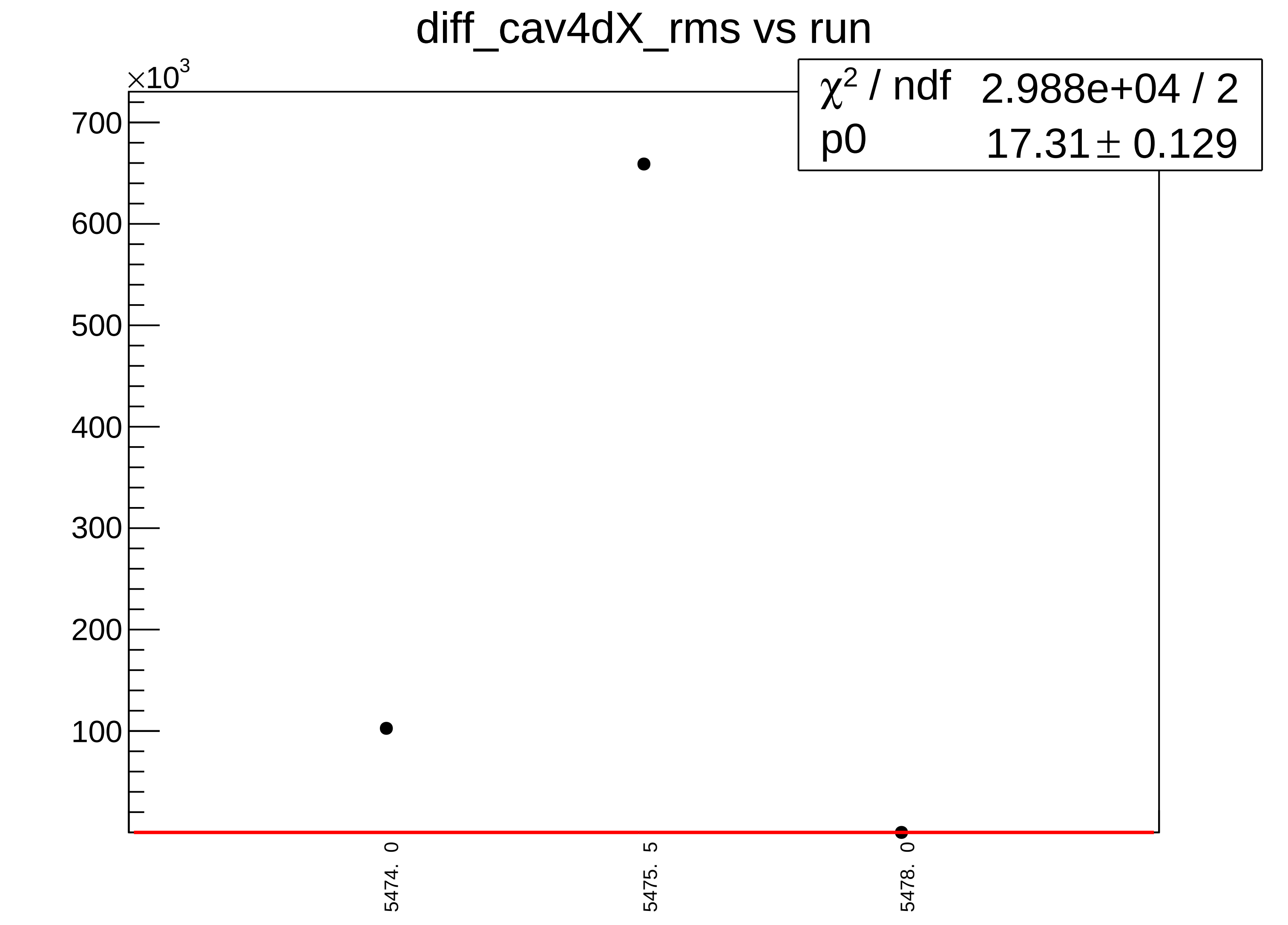
diff_cav4cY_mean vs run
χ^2 / ndf 62.93 / 50
p0 −6.233 ± 8.886
pull
Entries 51
Mean 15.17
Std Dev 31.43
pull1D
Entries 51
Mean −0.02328
Std Dev 1.111



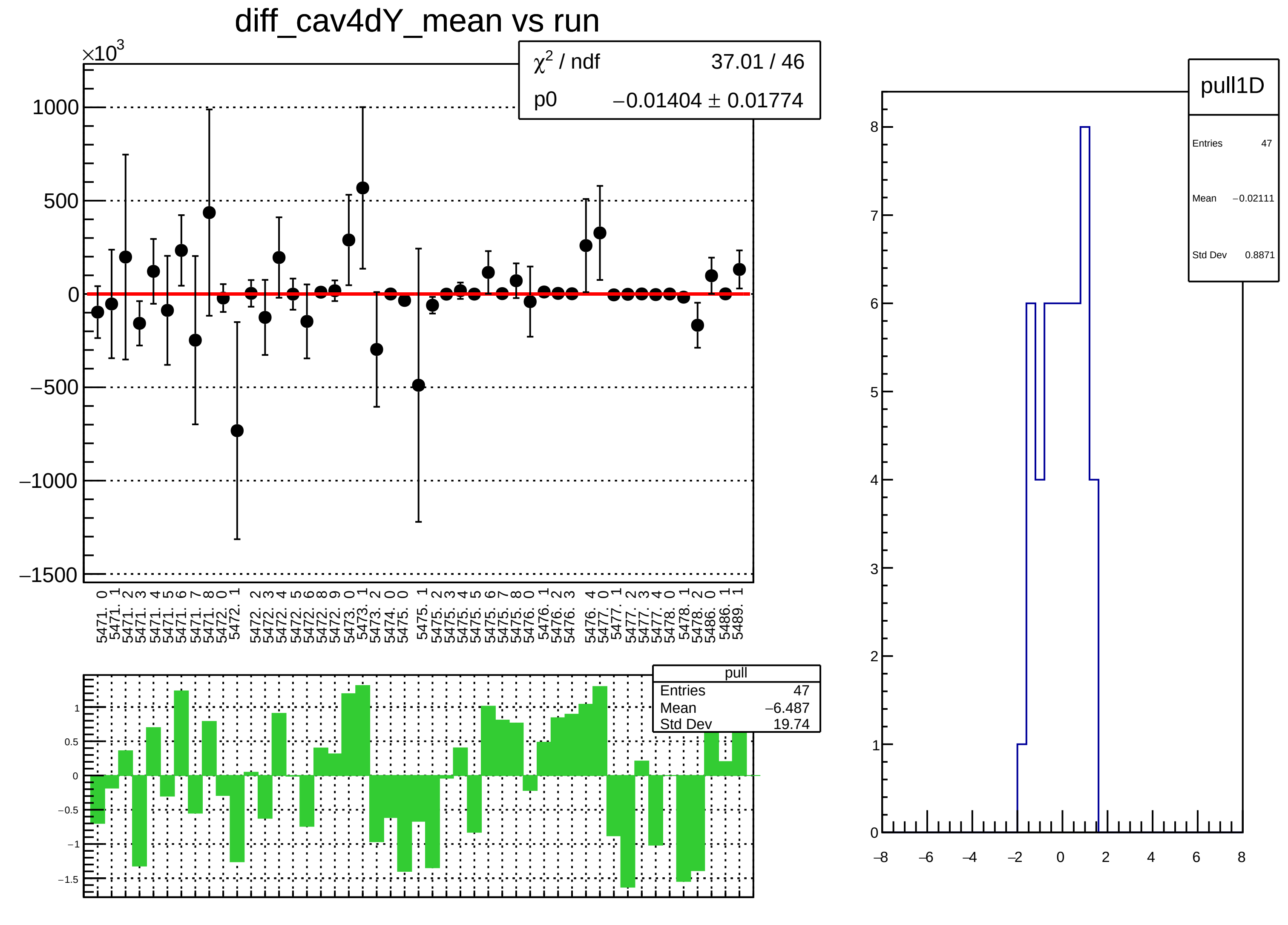
diff_cav4cY_rms vs run
χ2 / ndf 2655 / 50
p0 6228 ± 6.283
7000
6800
6600
6400
6200
6000
5800
5600
5400



diff_cav4dX_mean vs run
×10^3
χ2 / ndf 15.26 / 22
p0 −0.1706 ± 0.1824
1000
500
0
−500
−1000
−1500
−2000
5472. 0
5472. 2
5472. 5
5472. 8
5472. 9
5474. 0
5475. 0
5475. 2
5475. 3
5475. 4
5475. 5
5475. 7
5475. 8
5476. 1
5476. 2
5476. 3
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5486. 1
pull
Entries 23
Mean 14.49
Std Dev 8.017
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 23
Mean 0.1835
Std Dev 0.7937
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

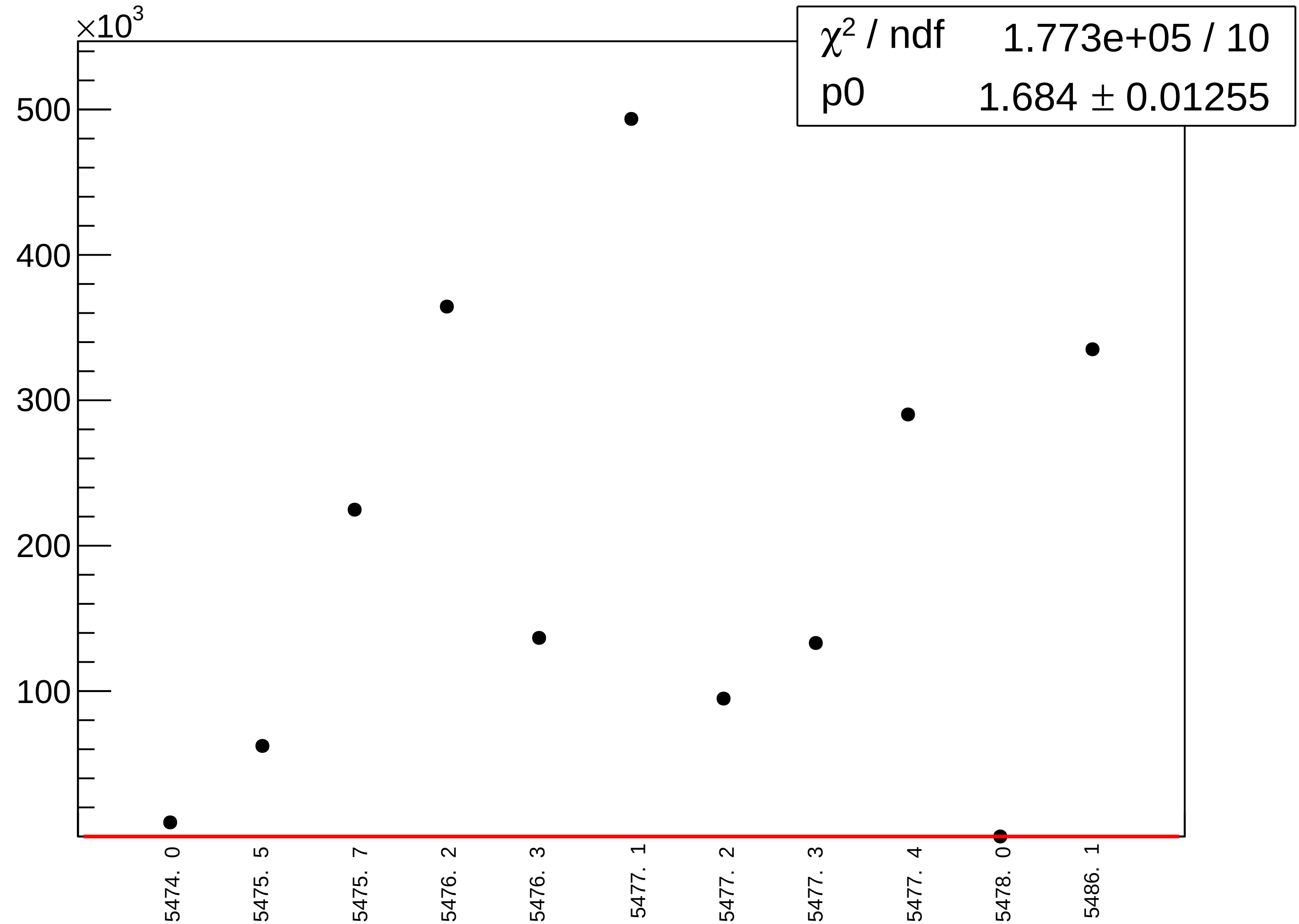


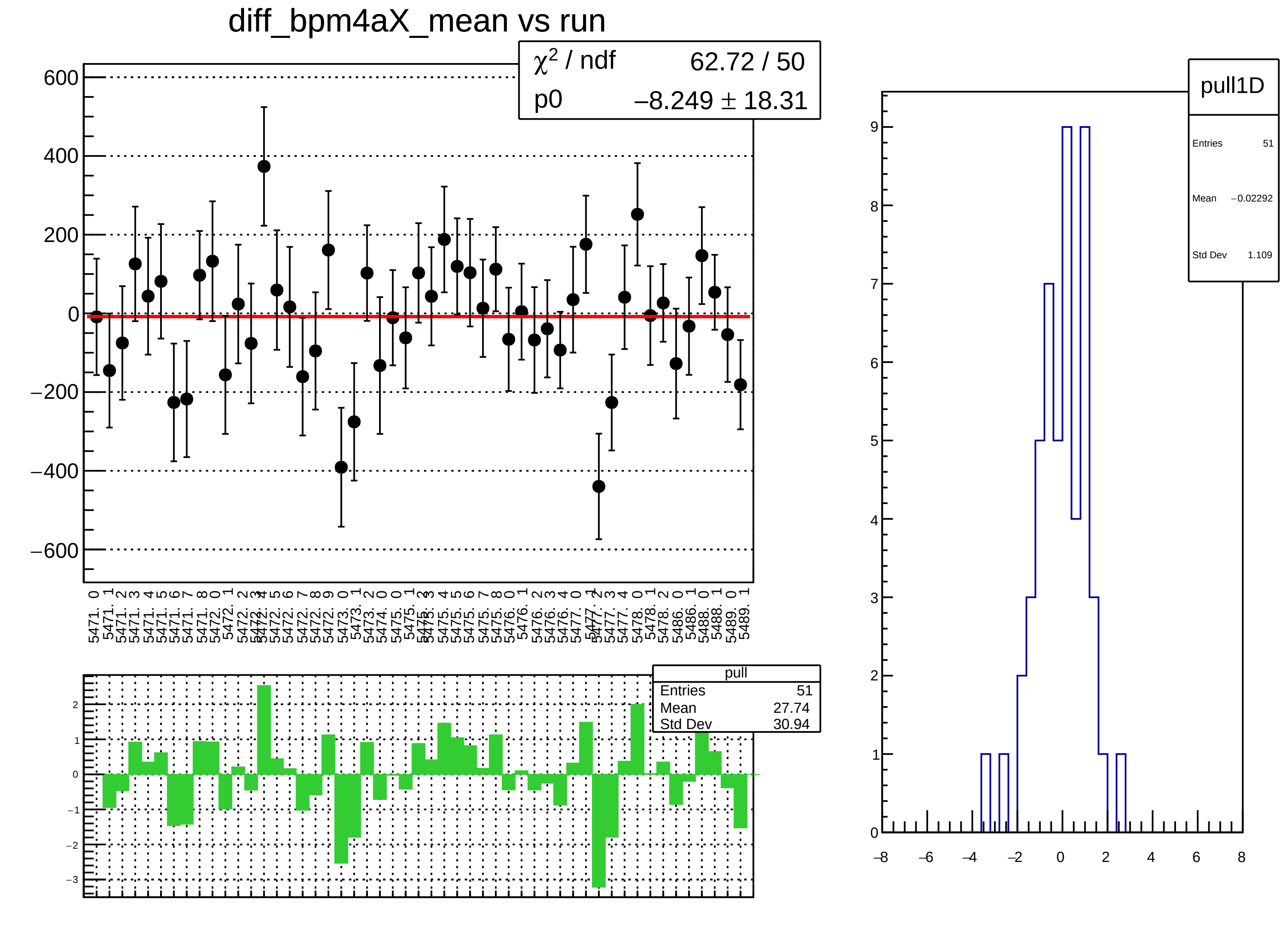
diff_cav4dX_rms vs run
$\times10^{3}$
700
600
500
400
300
200
100
χ^2 / ndf 2.988e+04 / 2
p0 17.31 ± 0.129
5474. 0
5475. 5
5478. 0

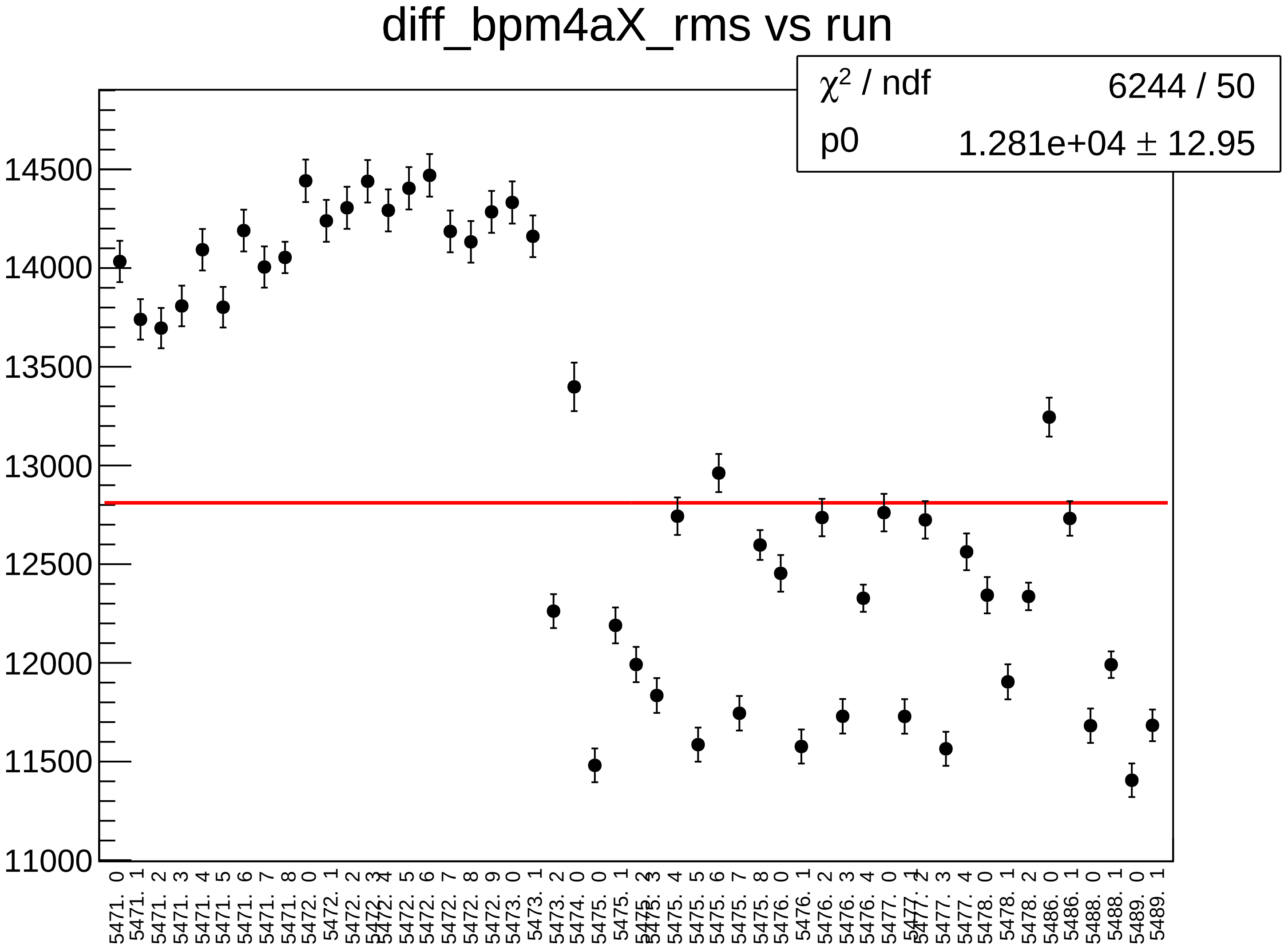


diff_cav4dY_mean vs run
×10^3
χ2 / ndf 37.01 / 46
p0 −0.01404 ± 0.01774
pull
Entries 47
Mean −6.487
Std Dev 19.74
pull1D
Entries 47
Mean −0.02111
Std Dev 0.8871

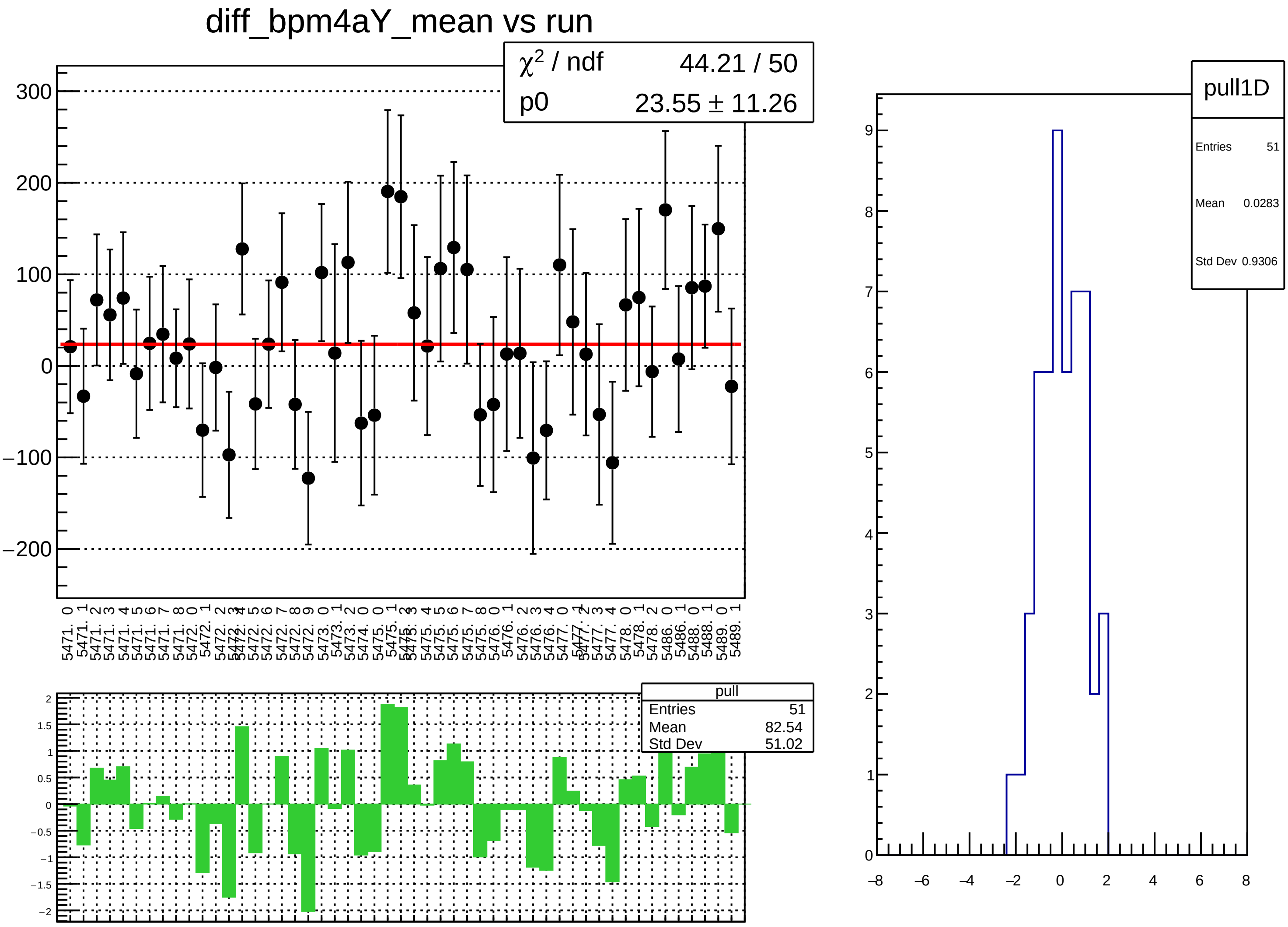
diff_cav4dY_rms vs run



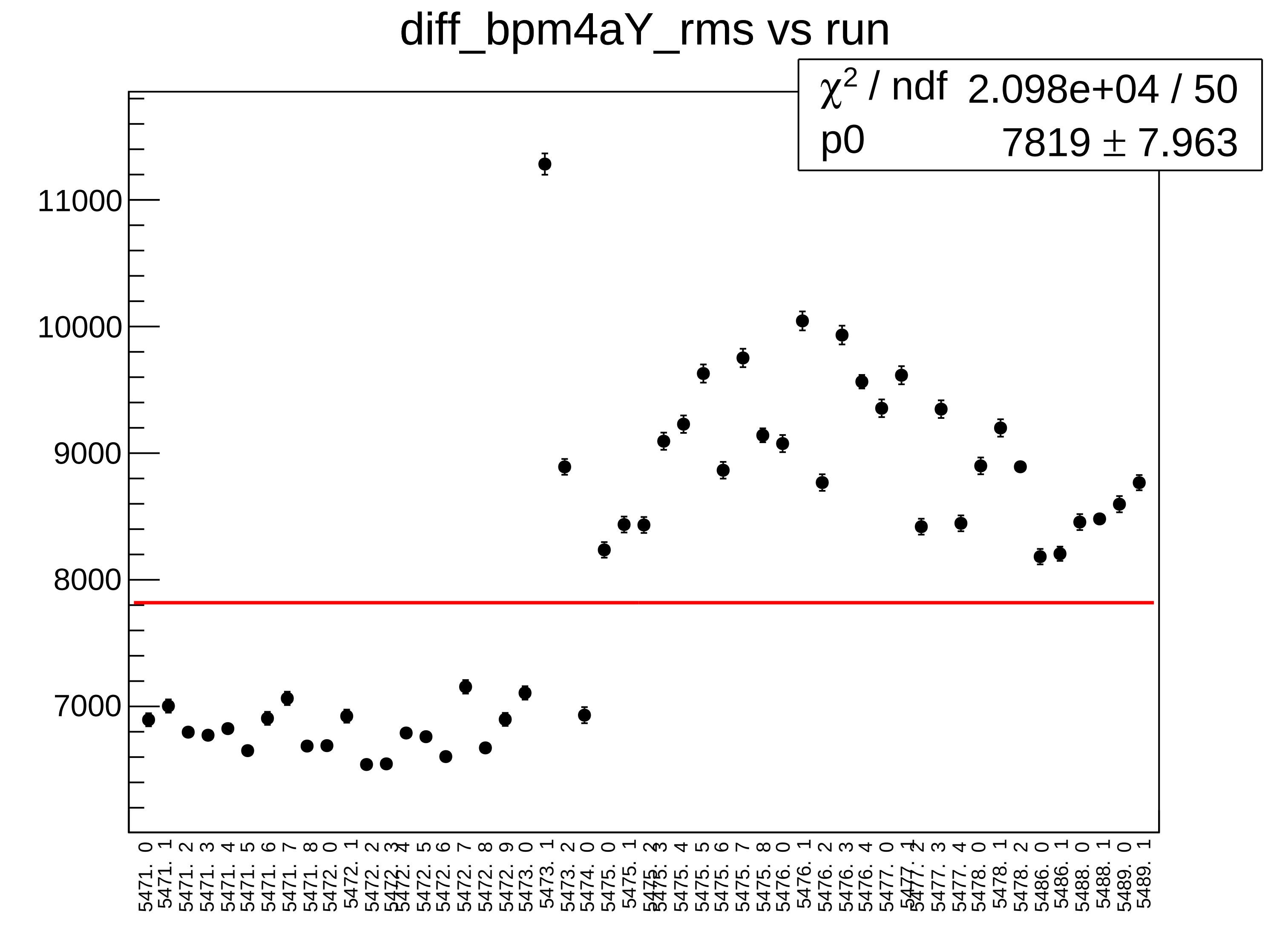

diff_bpm4aX_mean vs run
χ2 / ndf 62.72 / 50
p0 −8.249 ± 18.31
pull
Entries 51
Mean 27.74
Std Dev 30.94
pull1D
Entries 51
Mean −0.02292
Std Dev 1.109



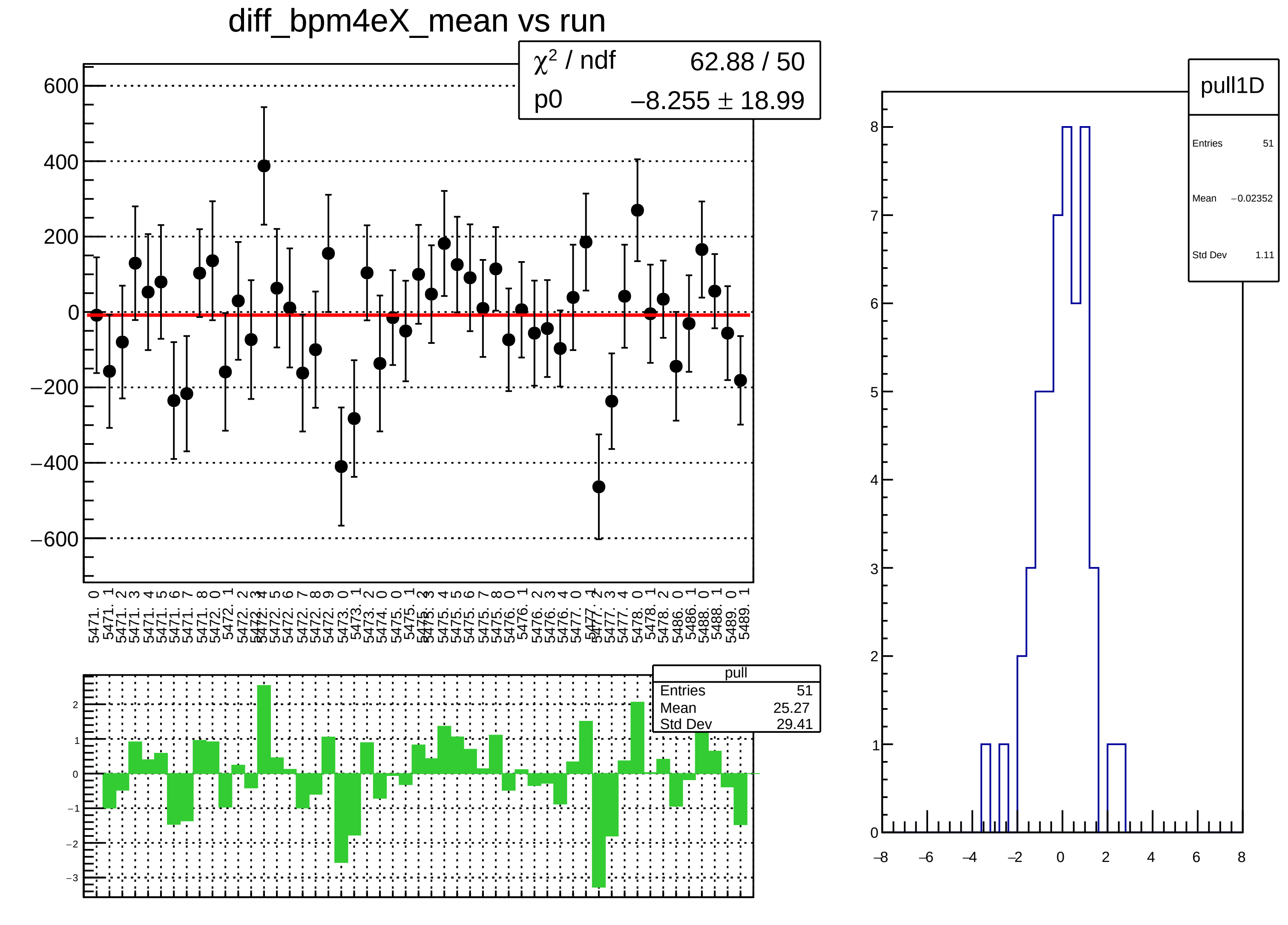
diff_bpm4aX_rms vs run
χ² / ndf 6244 / 50
p0 1.281e+04 ± 12.95
14500
14000
13500
13000
12500
12000
11500
11000



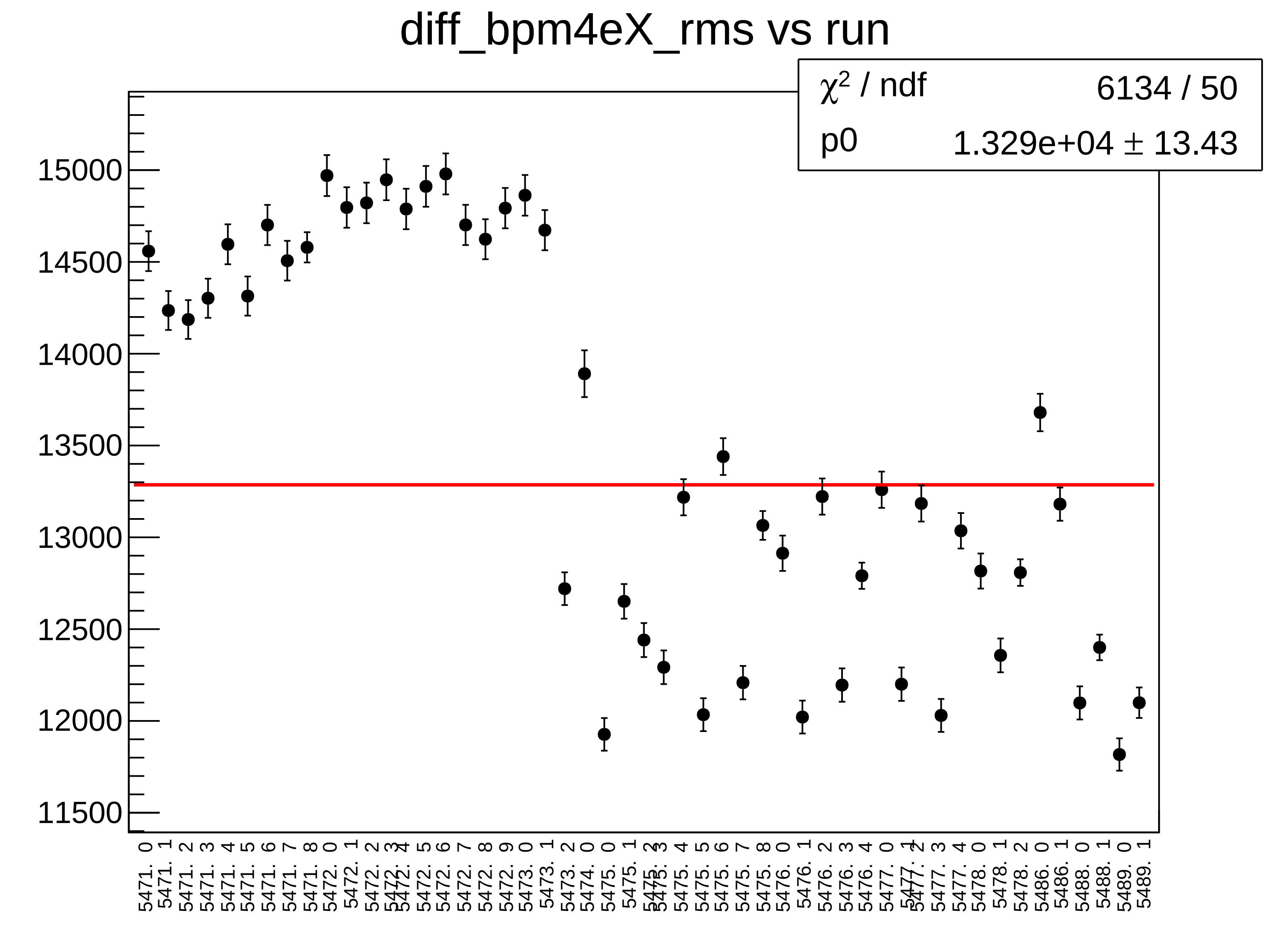
diff_bpm4aY_mean vs run
χ2 / ndf 44.21 / 50
p0 23.55 ± 11.26
pull
Entries 51
Mean 82.54
Std Dev 51.02
pull1D
Entries 51
Mean 0.0283
Std Dev 0.9306



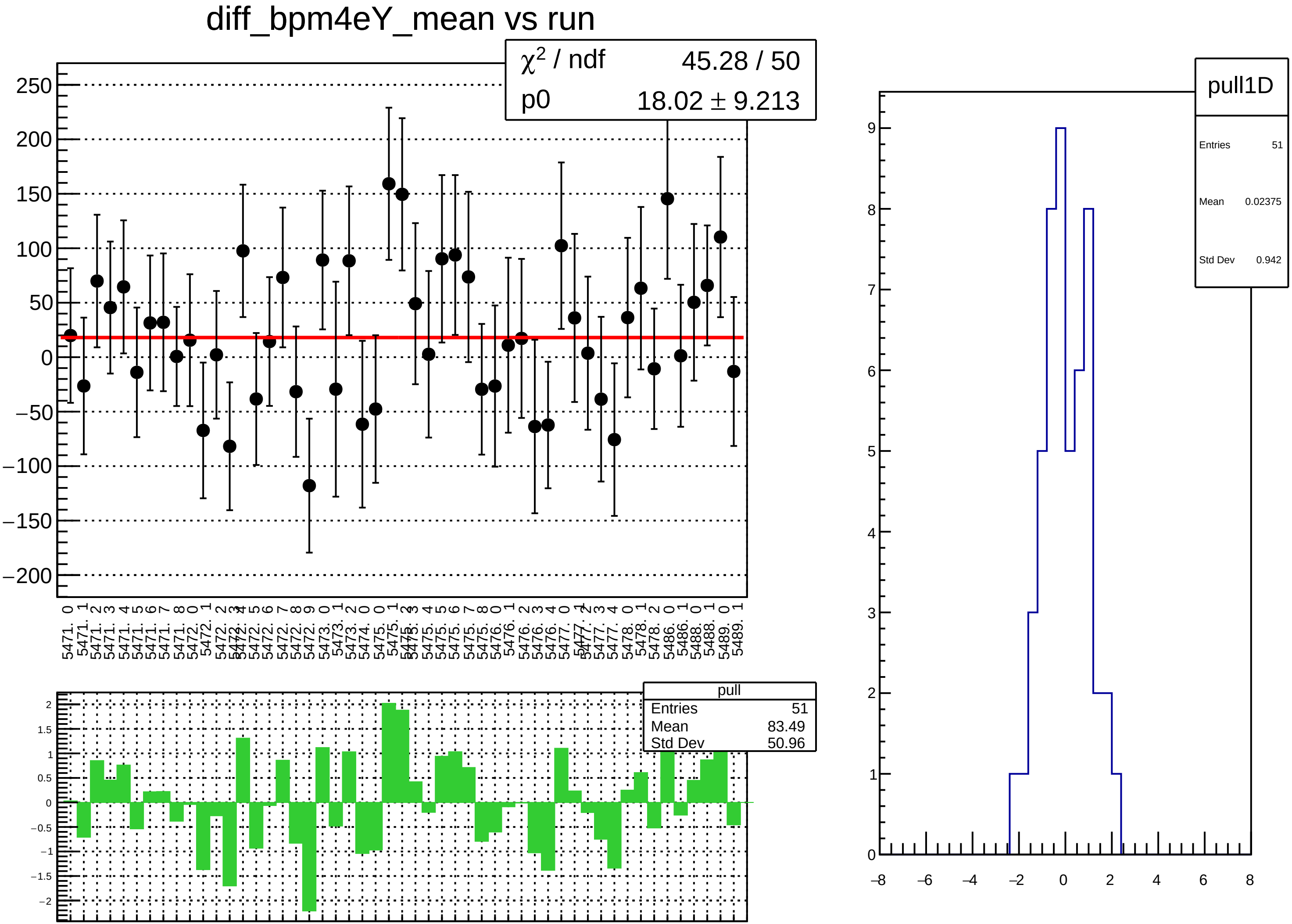
diff_bpm4aY_rms vs run
χ2 / ndf 2.098e+04 / 50
p0 7819 ± 7.963
11000
10000
9000
8000
7000



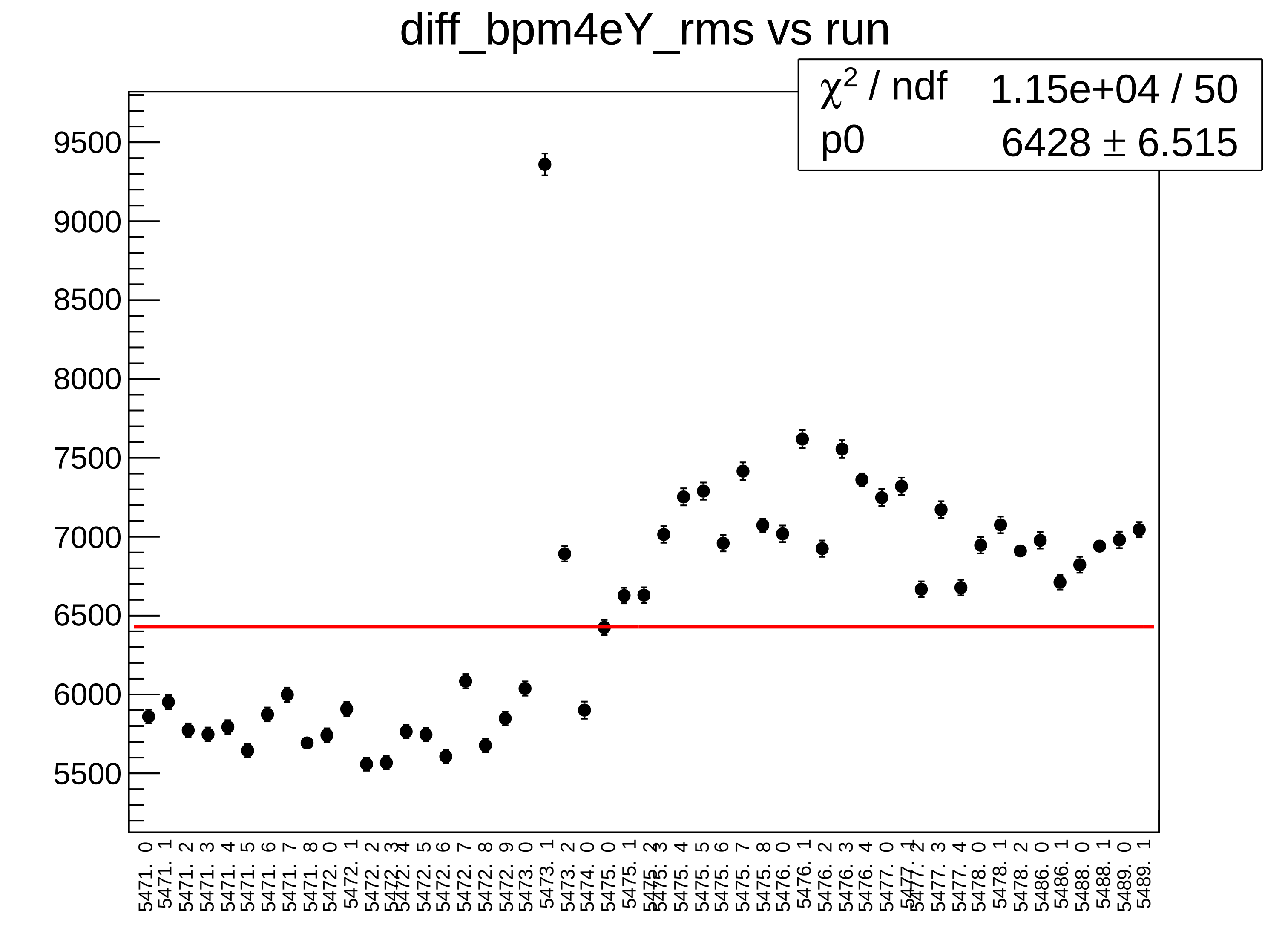
diff_bpm4eX_mean vs run
χ2 / ndf 62.88 / 50
p0 −8.255 ± 18.99
pull
Entries 51
Mean 25.27
Std Dev 29.41
pull1D
Entries 51
Mean −0.02352
Std Dev 1.11



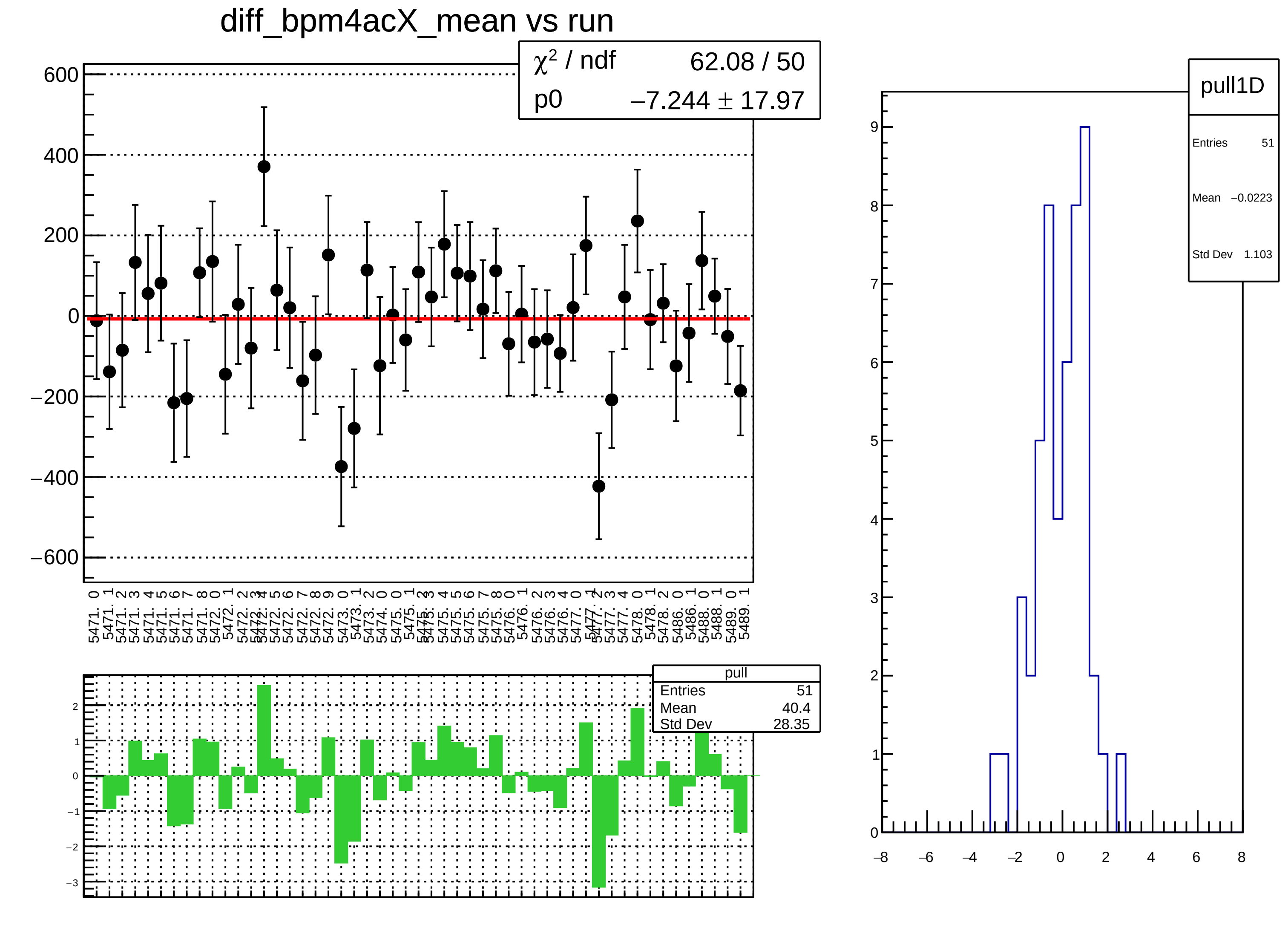
diff_bpm4eX_rms vs run
χ^2 / ndf 6134 / 50
p0 1.329e+04 ± 13.43
15000
14500
14000
13500
13000
12500
12000
11500



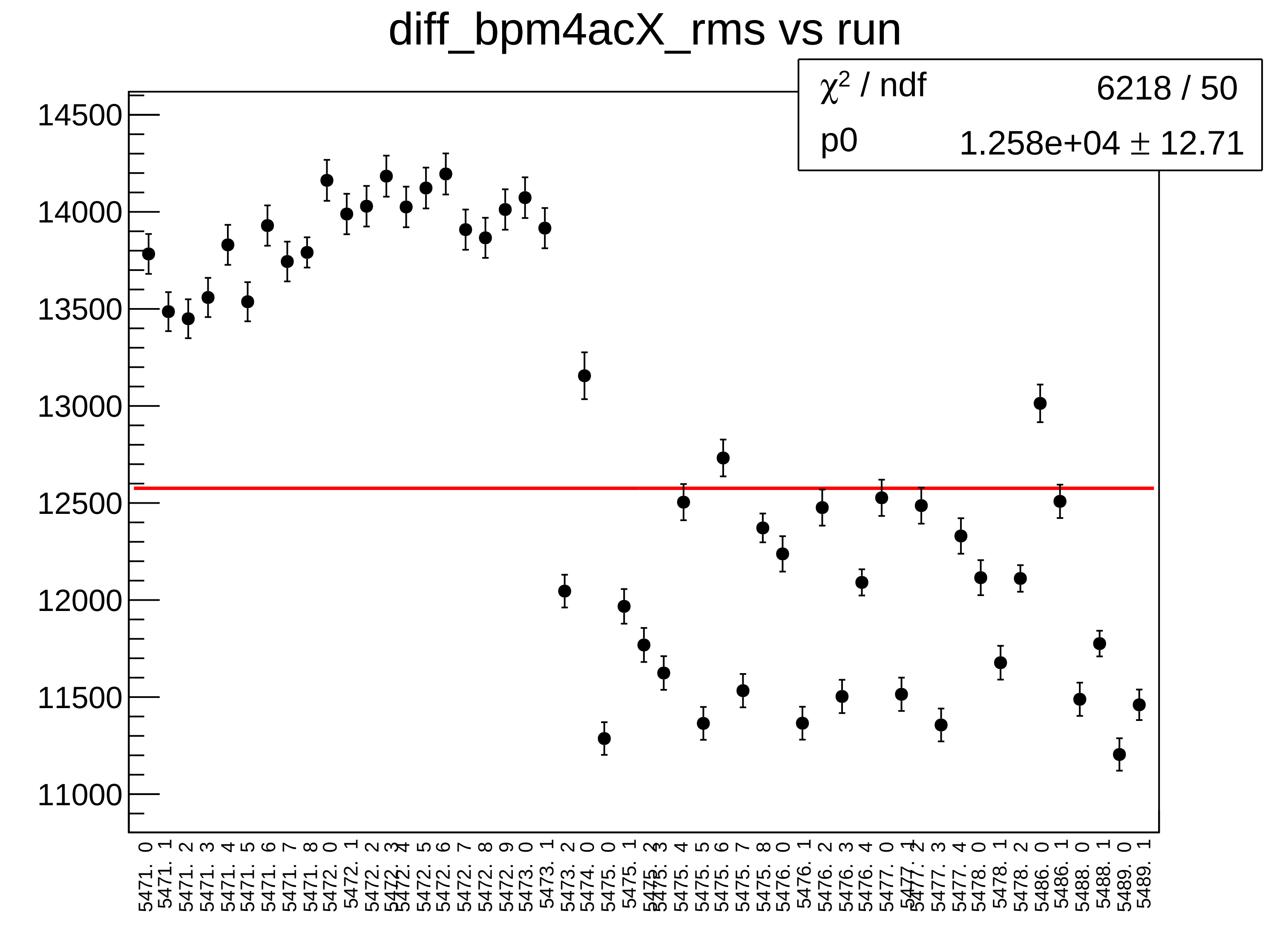
diff_bpm4eY_mean vs run
χ^2 / ndf 45.28 / 50
p0 18.02 ± 9.213
pull
Entries 51
Mean 83.49
Std Dev 50.96
pull1D
Entries 51
Mean 0.02375
Std Dev 0.942



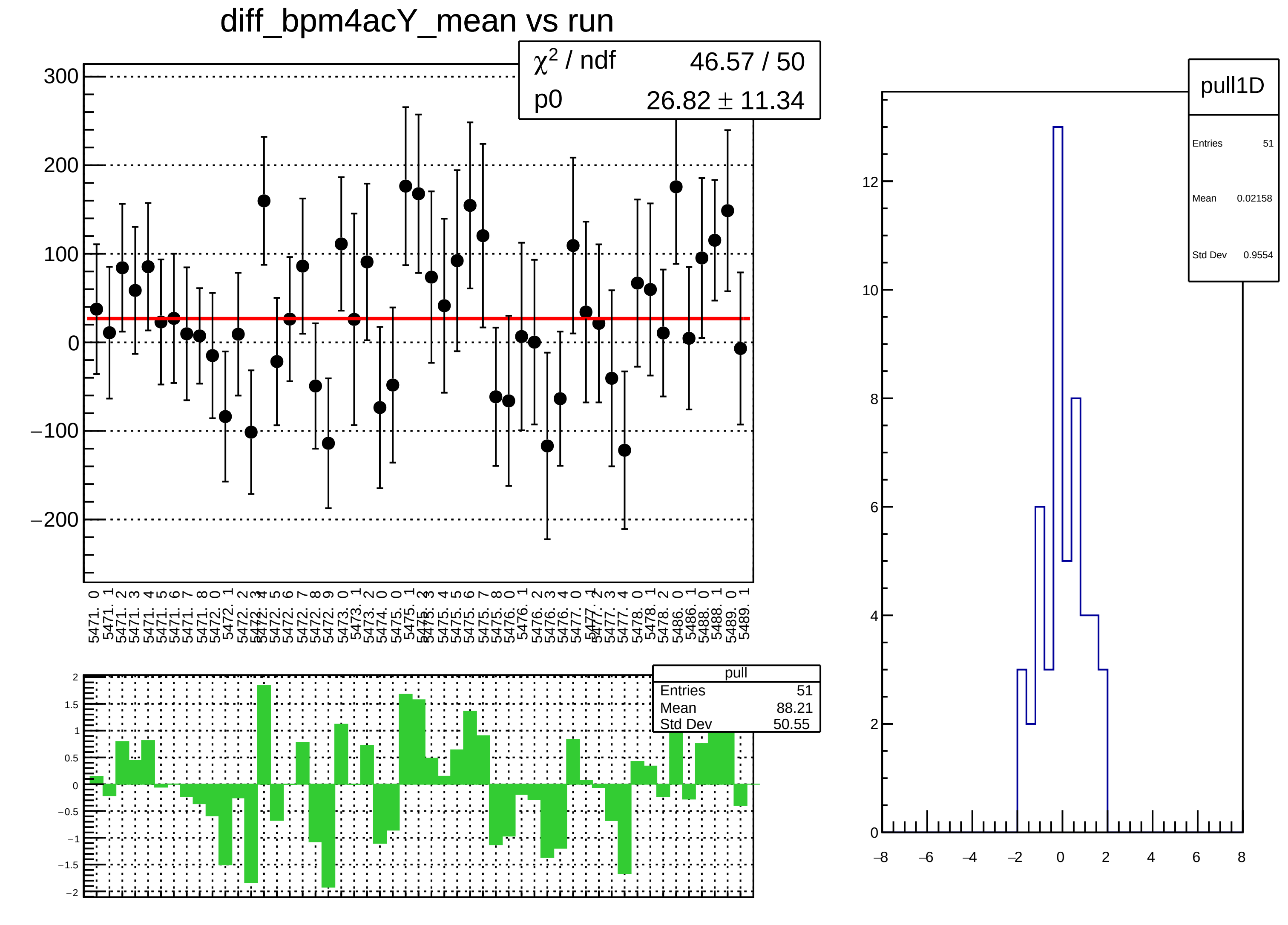
diff_bpm4eY_rms vs run
χ^2 / ndf 1.15e+04 / 50
p0 6428 ± 6.515
9500
9000
8500
8000
7500
7000
6500
6000
5500



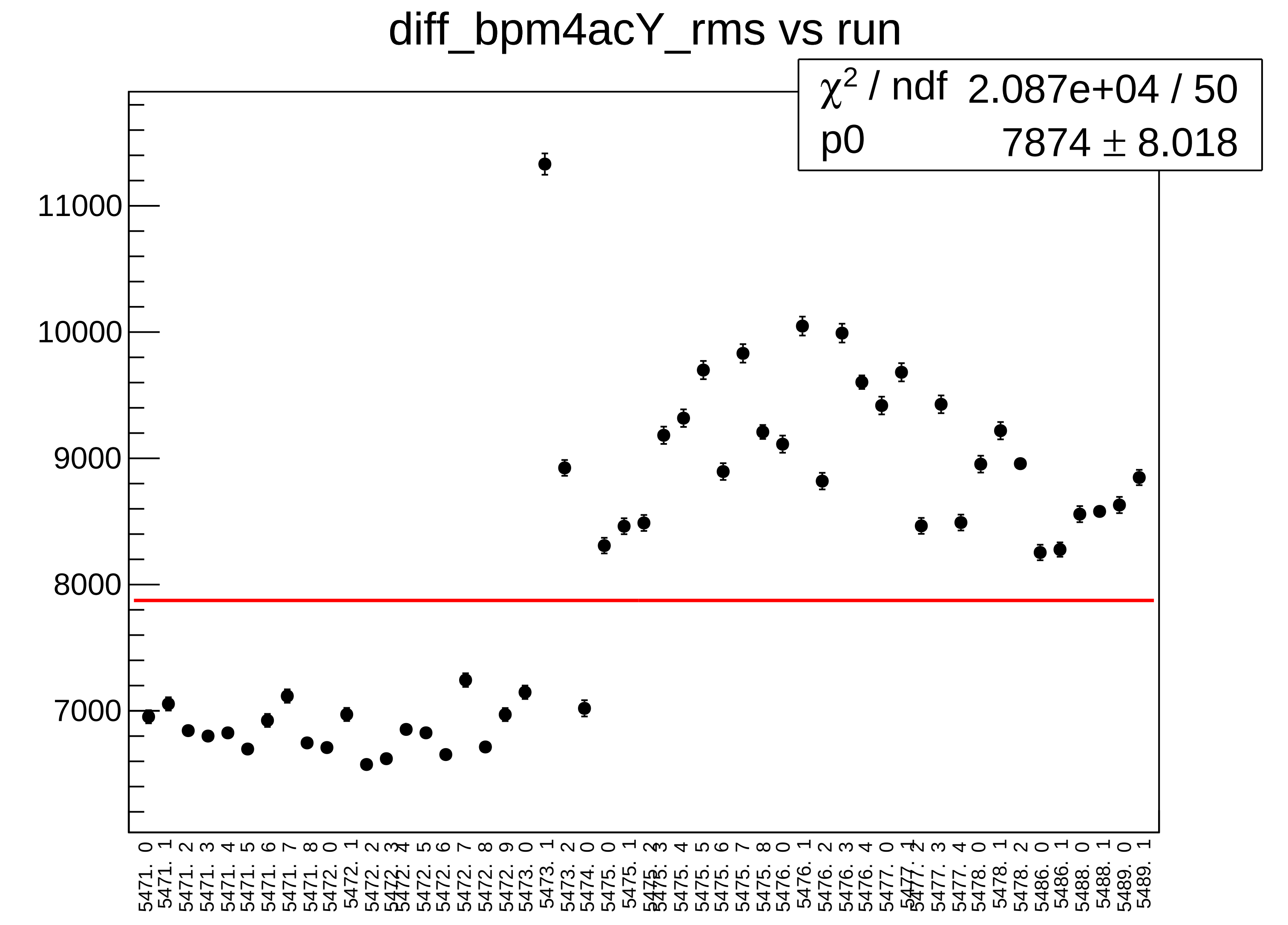
diff_bpm4acX_mean vs run
χ^2 / ndf 62.08 / 50
p0 −7.244 ± 17.97
pull
Entries 51
Mean 40.4
Std Dev 28.35
pull1D
Entries 51
Mean −0.0223
Std Dev 1.103



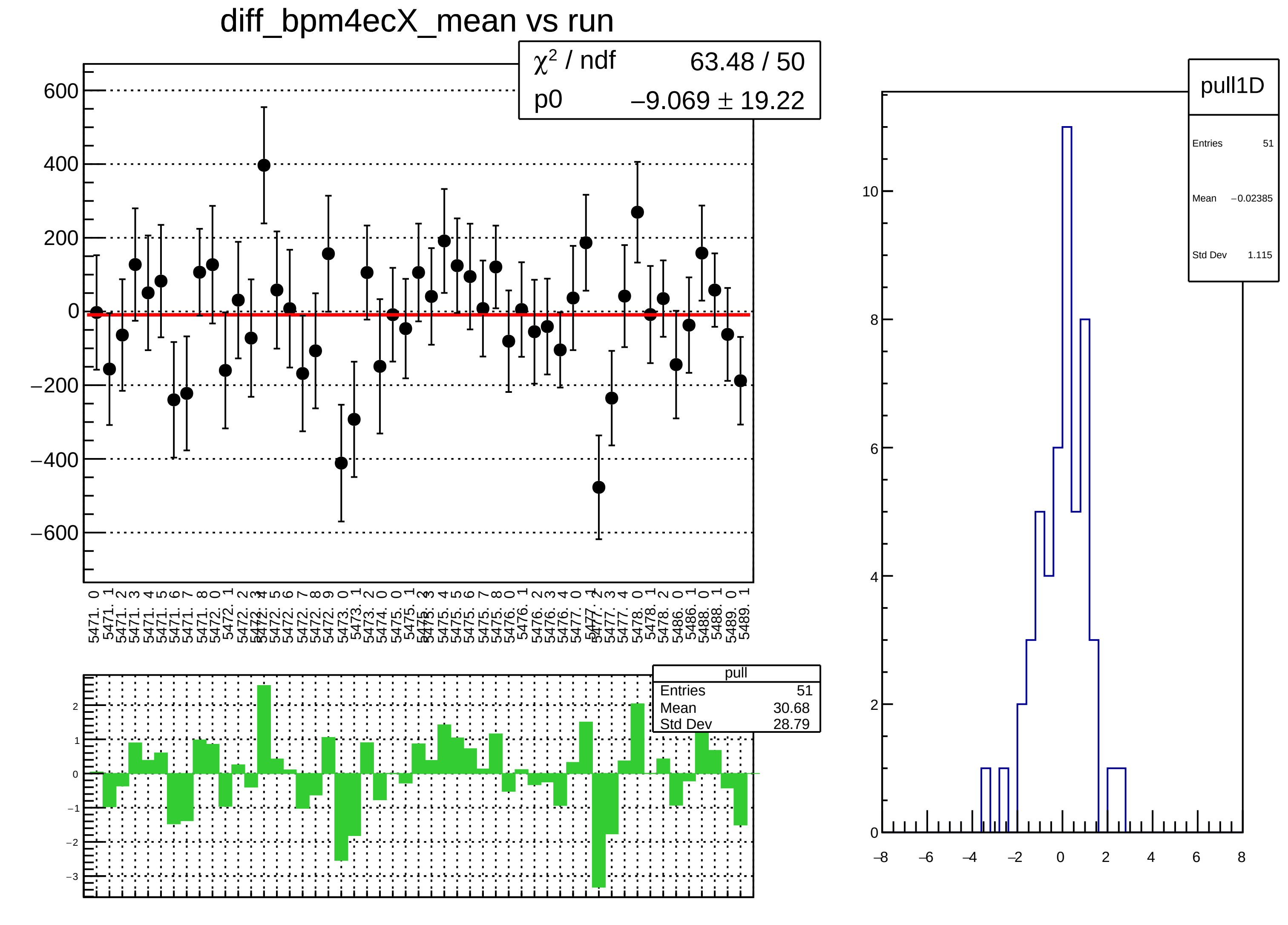
diff_bpm4acX_rms vs run
χ² / ndf 6218 / 50
p0 1.258e+04 ± 12.71
14500
14000
13500
13000
12500
12000
11500
11000

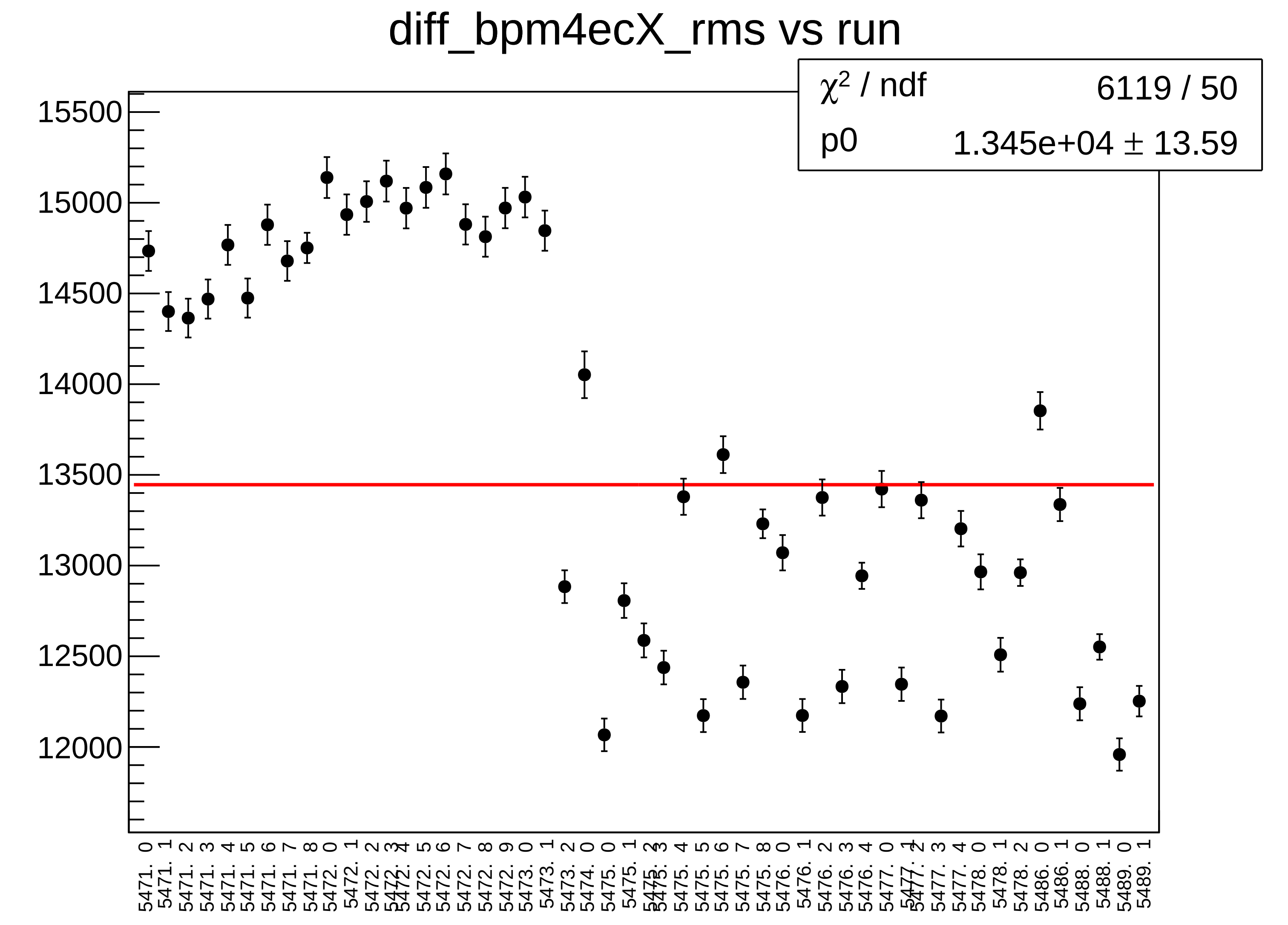


diff_bpm4acY_mean vs run
χ^2 / ndf 46.57 / 50
p0 26.82 ± 11.34
pull
Entries 51
Mean 88.21
Std Dev 50.55
pull1D
Entries 51
Mean 0.02158
Std Dev 0.9554

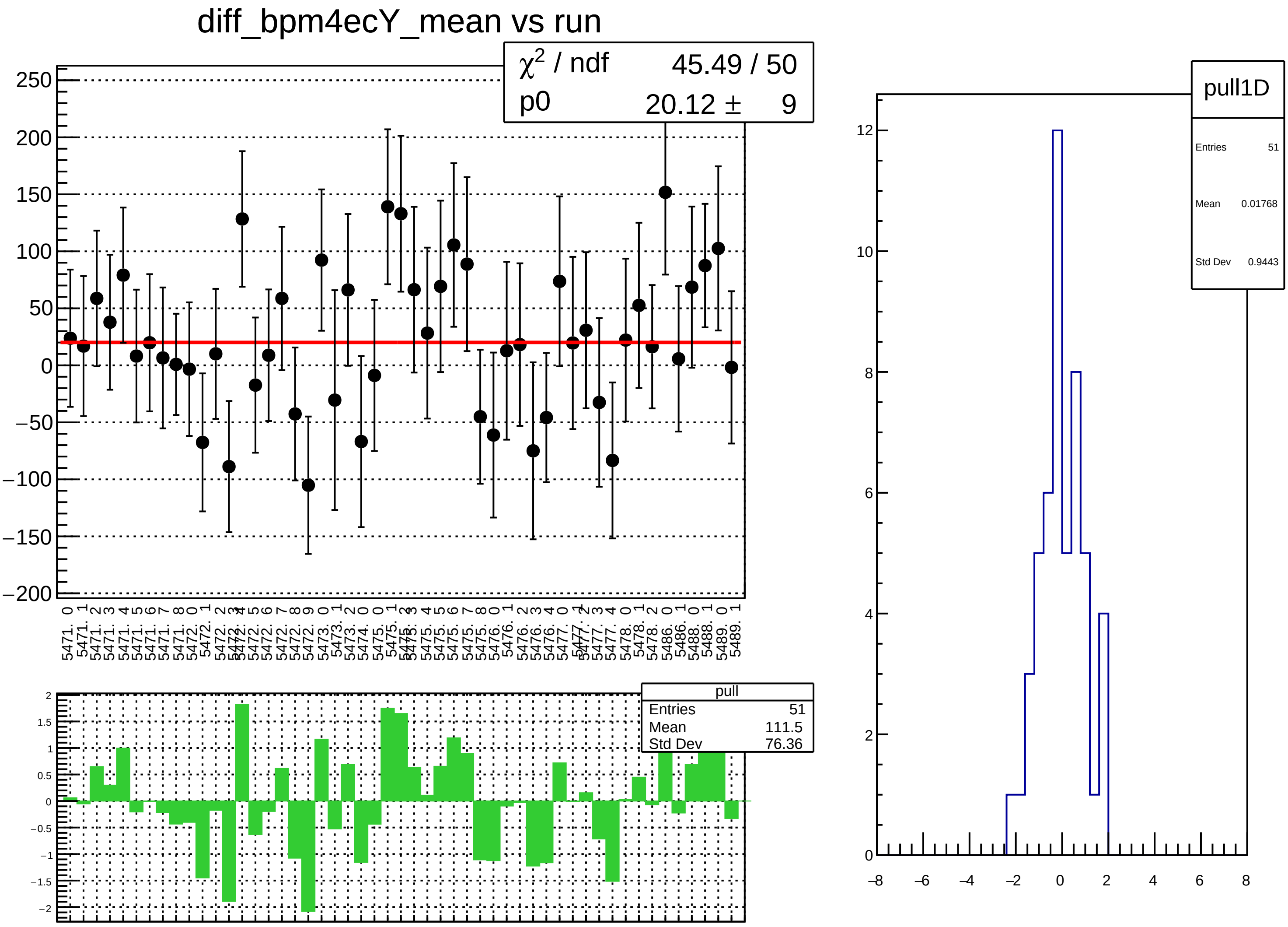


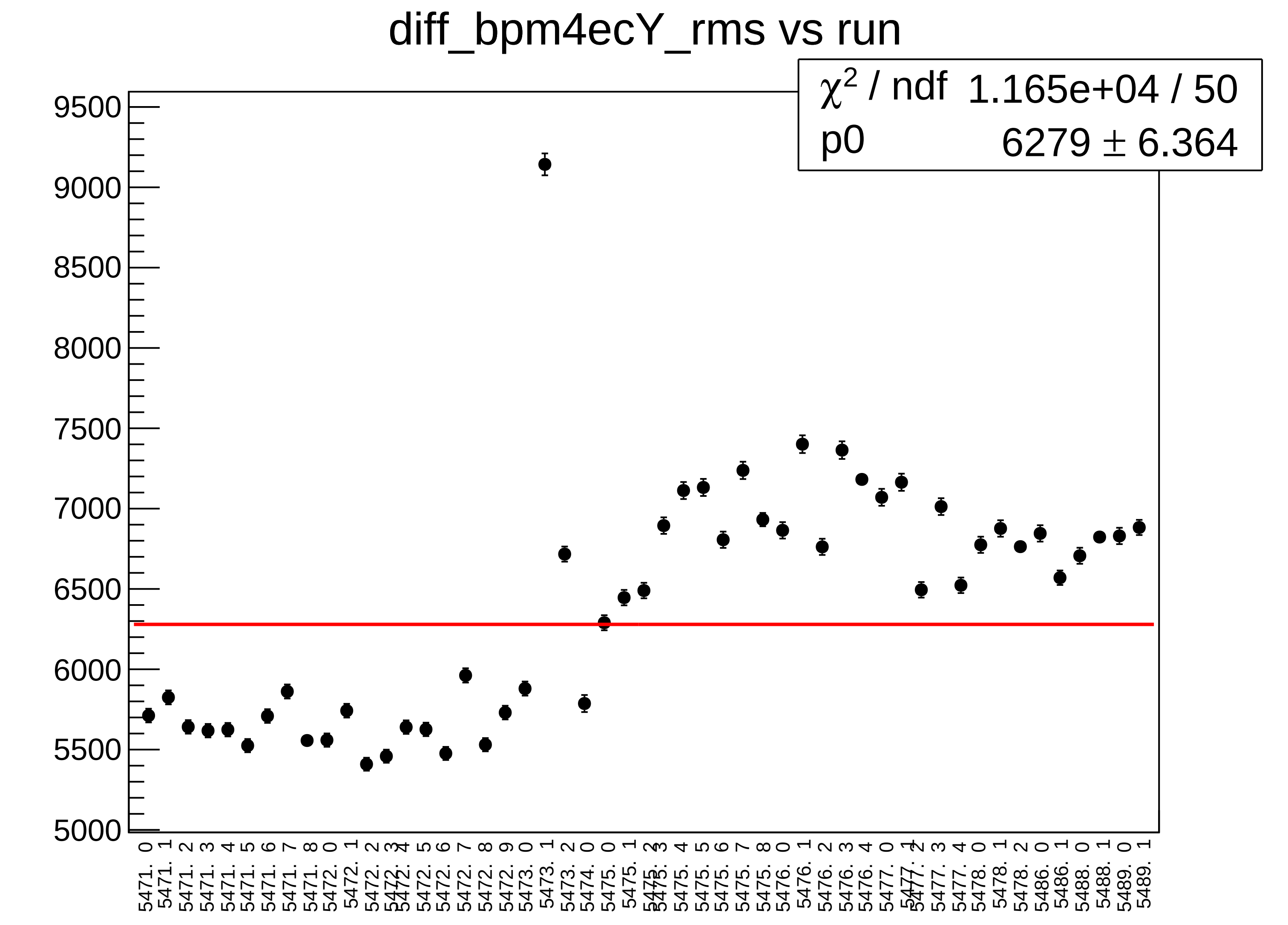
diff_bpm4acY_rms vs run
χ² / ndf 2.087e+04 / 50
p0 7874 ± 8.018
11000
10000
9000
8000
7000


diff_bpm4ecX_mean vs run
χ^2 / ndf 63.48 / 50
p0 −9.069 ± 19.22
pull
Entries 51
Mean 30.68
Std Dev 28.79
pull1D
Entries 51
Mean −0.02385
Std Dev 1.115

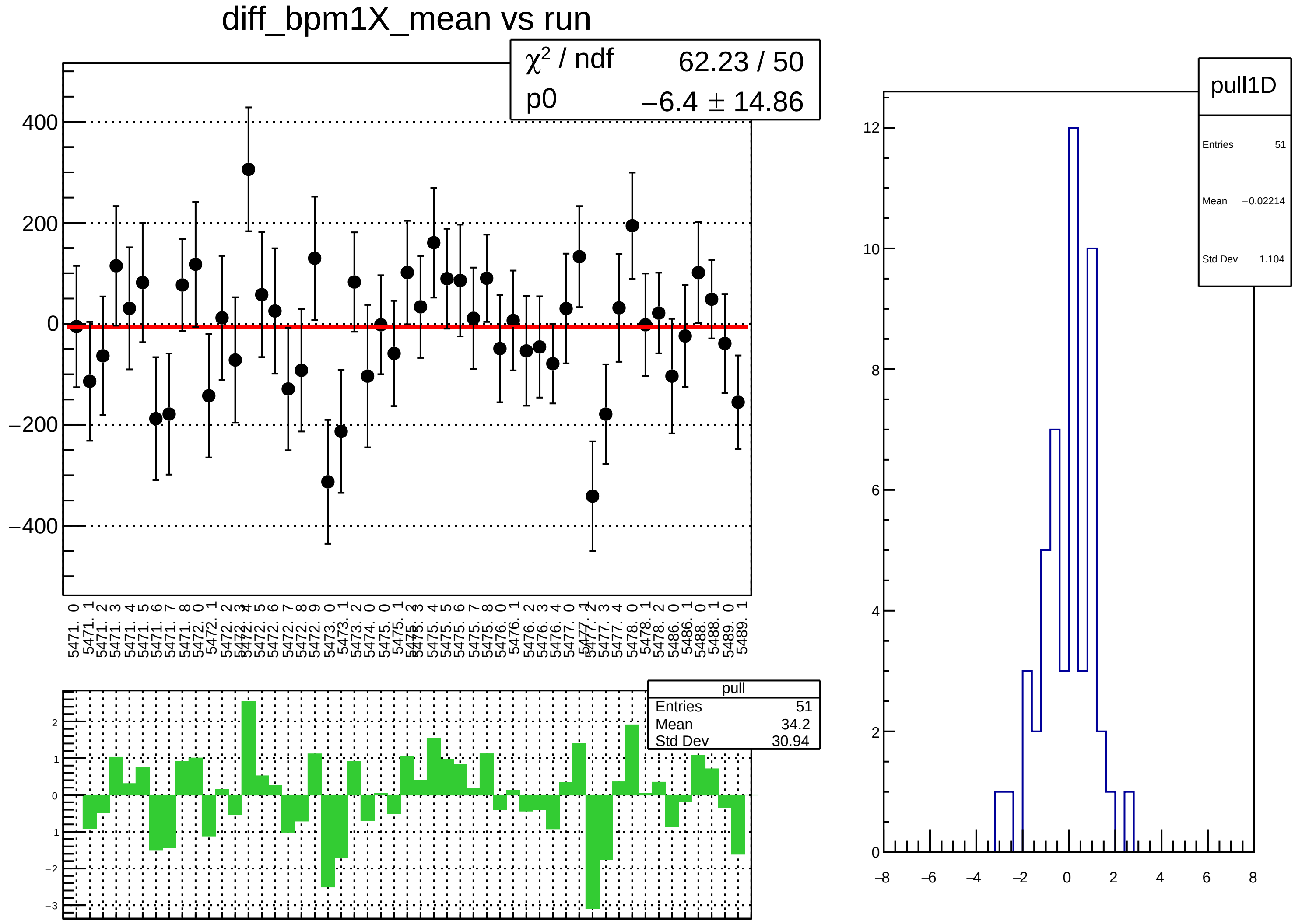


diff_bpm4ecX_rms vs run
χ^2 / ndf 6119 / 50
p0 1.345e+04 ± 13.59
15500
15000
14500
14000
13500
13000
12500
12000

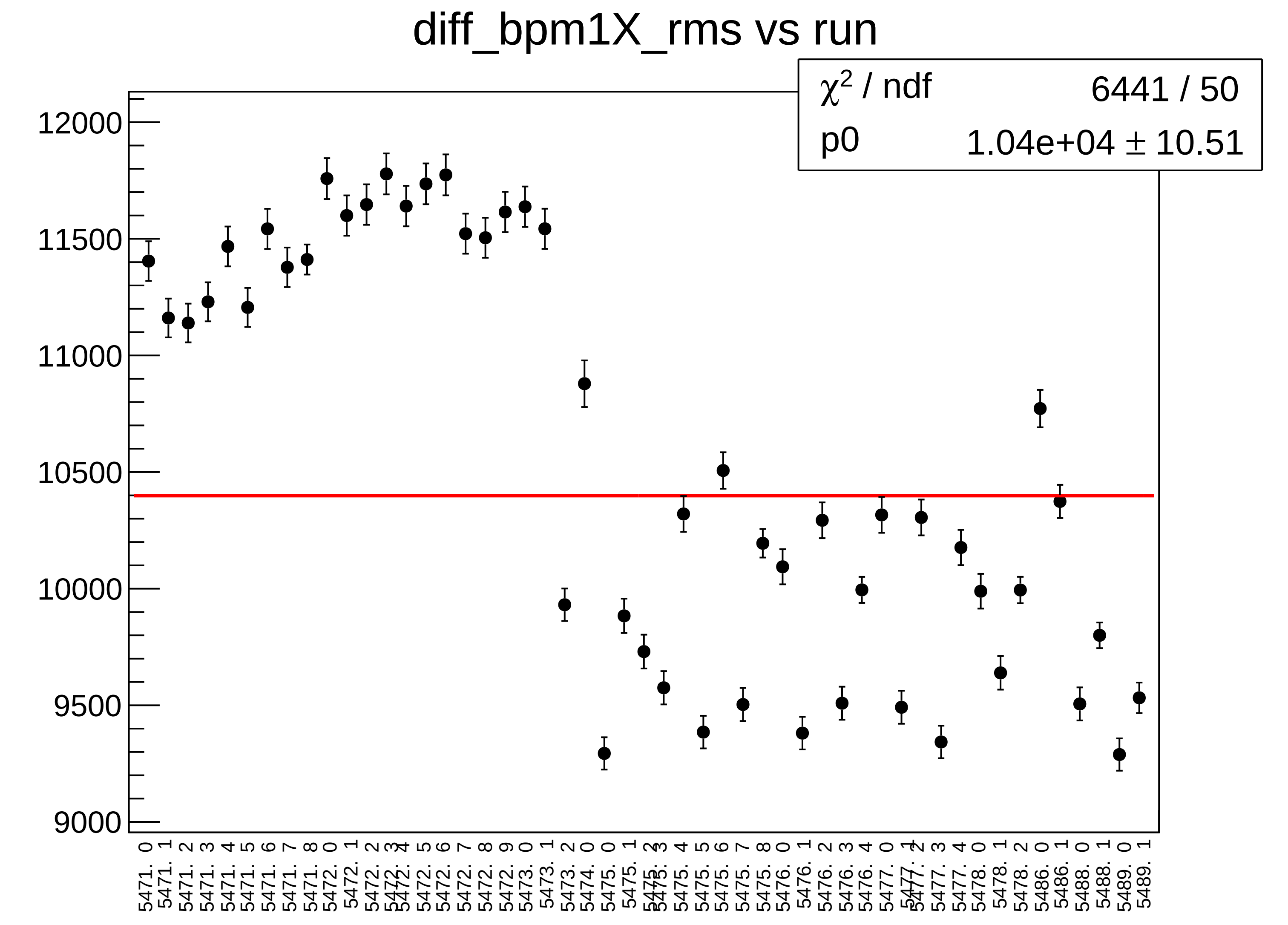

diff_bpm4ecY_mean vs run
χ^2 / ndf 45.49 / 50
p0 20.12 ± 9
pull
Entries 51
Mean 111.5
Std Dev 76.36
pull1D
Entries 51
Mean 0.01768
Std Dev 0.9443



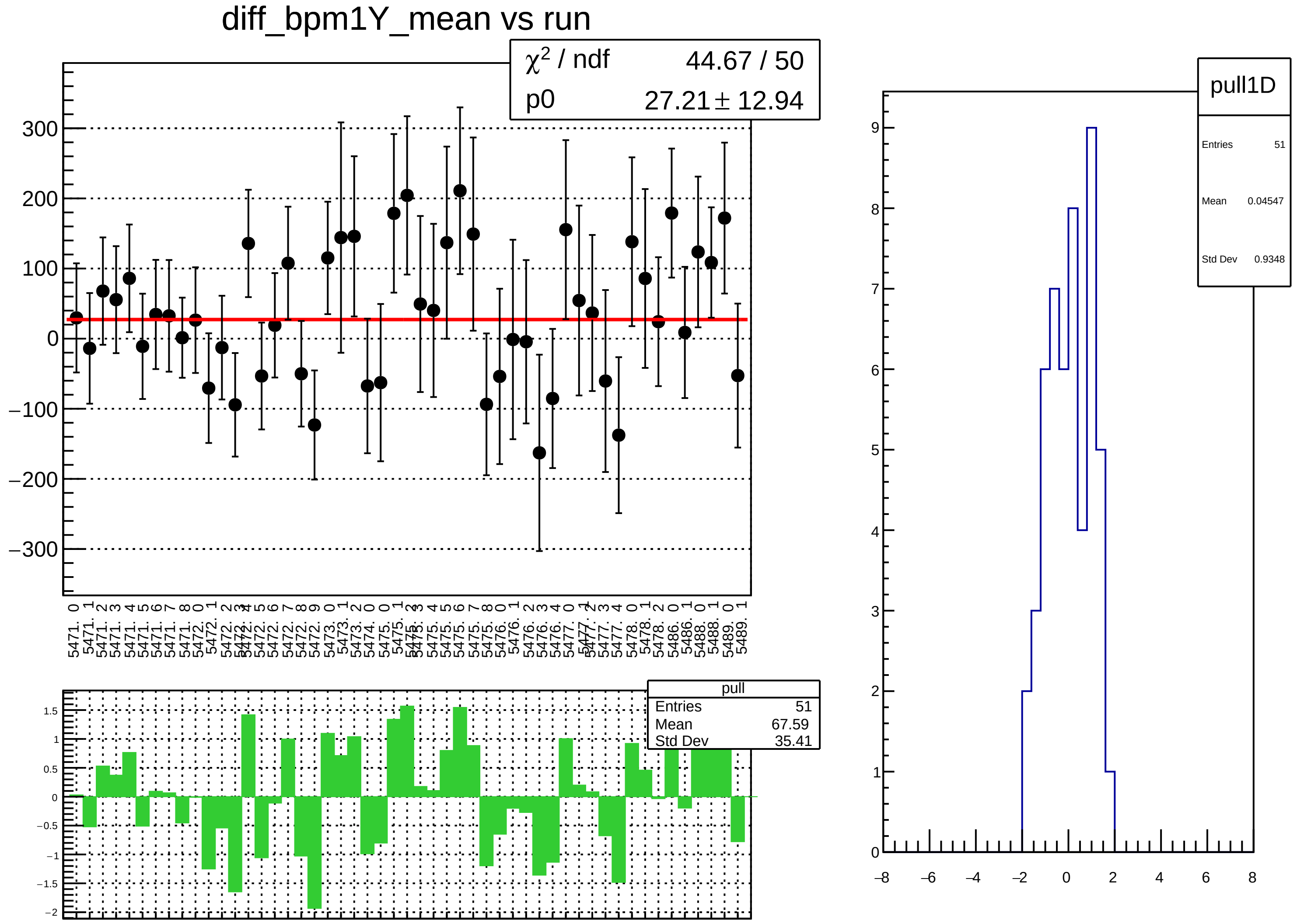
diff_bpm4ecY_rms vs run
χ^2 / ndf 1.165e+04 / 50
p0 6279 ± 6.364
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



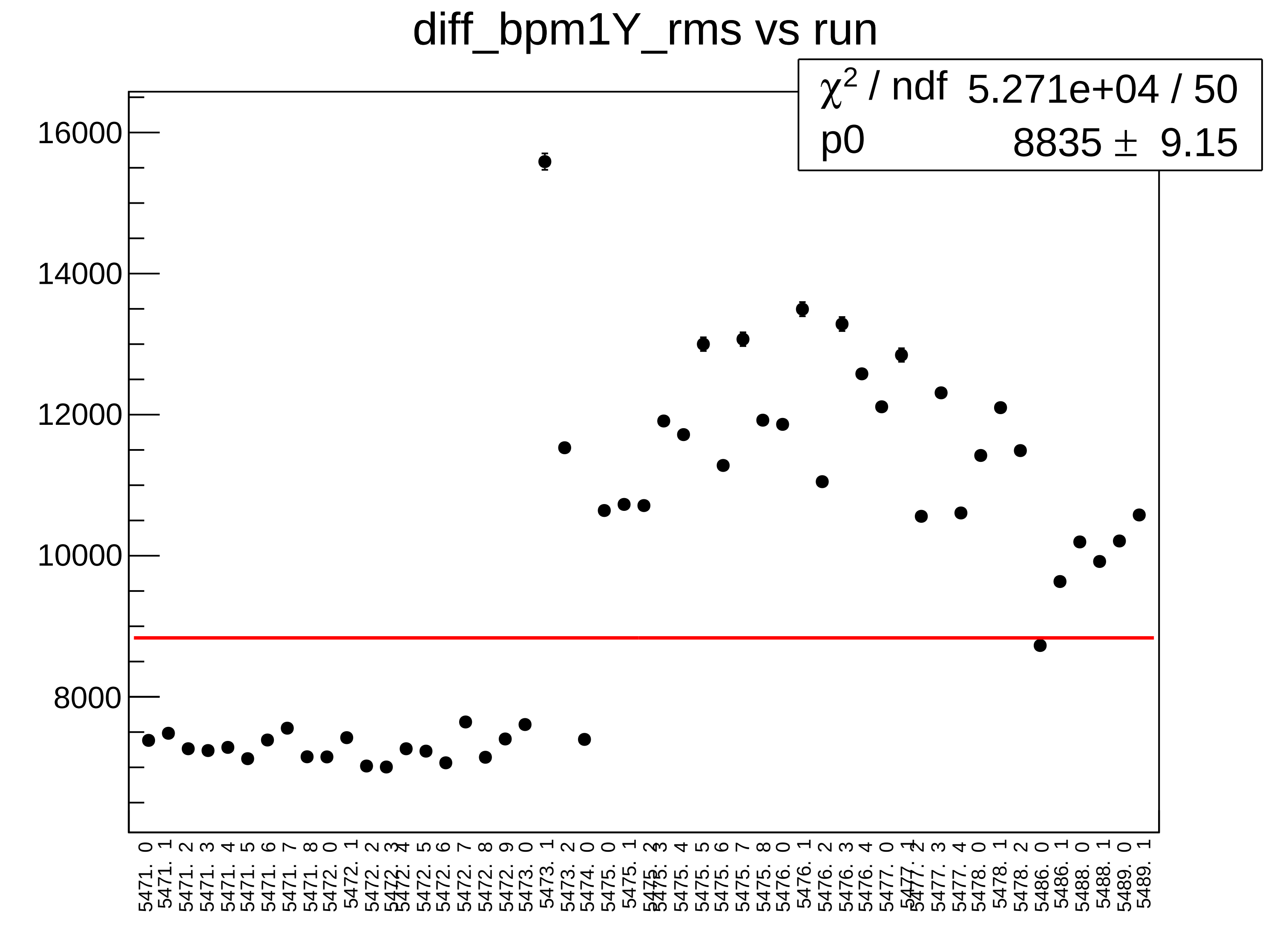
diff_bpm1X_mean vs run
χ^2 / ndf 62.23 / 50
p0 −6.4 ± 14.86
400
200
0
−200
−400
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 34.2
Std Dev 30.94
2
1
0
−1
−2
−3
pull1D
Entries 51
Mean −0.02214
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



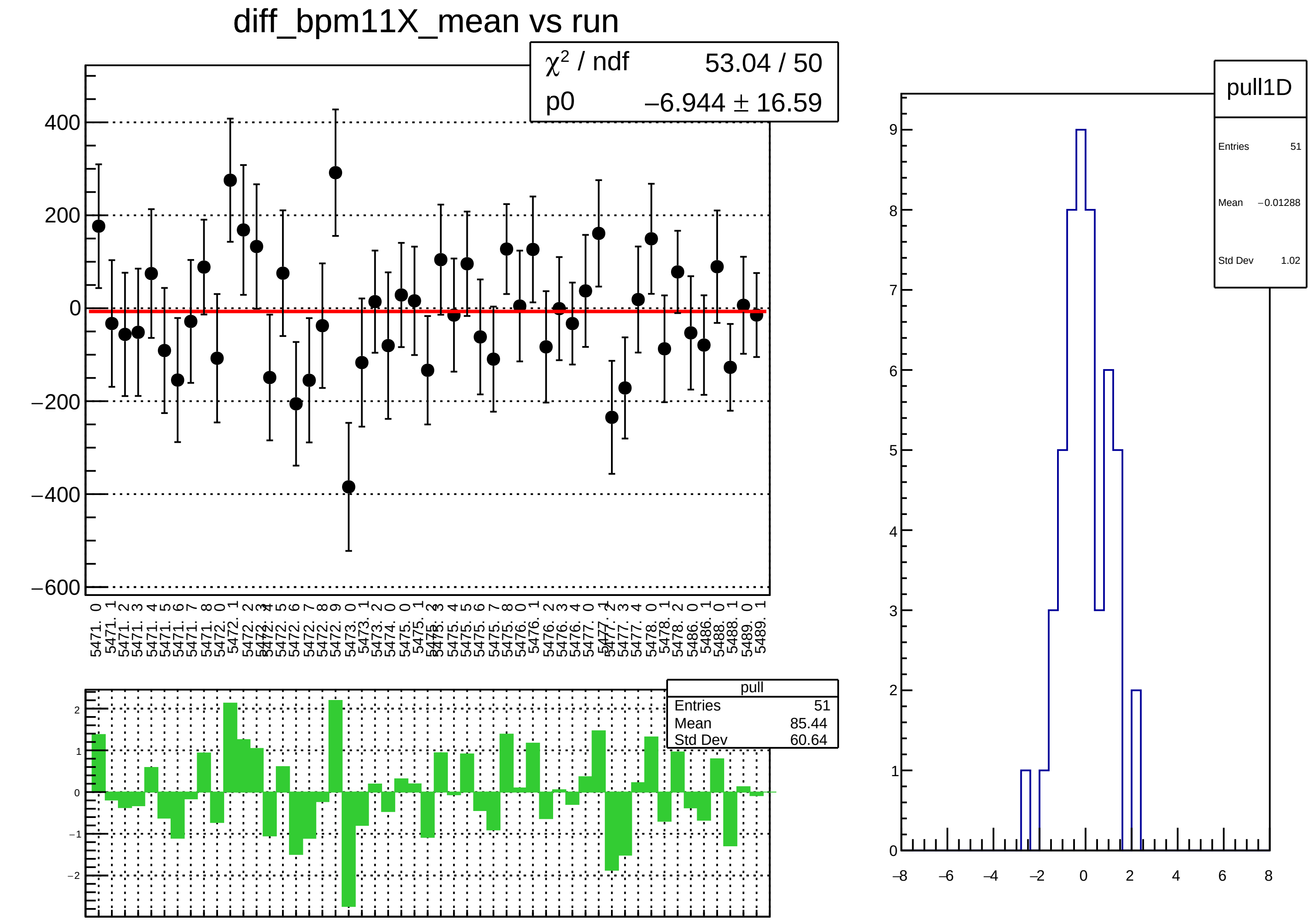
diff_bpm1X_rms vs run
χ^2 / ndf 6441 / 50
p0 1.04e+04 ± 10.51
12000
11500
11000
10500
10000
9500
9000



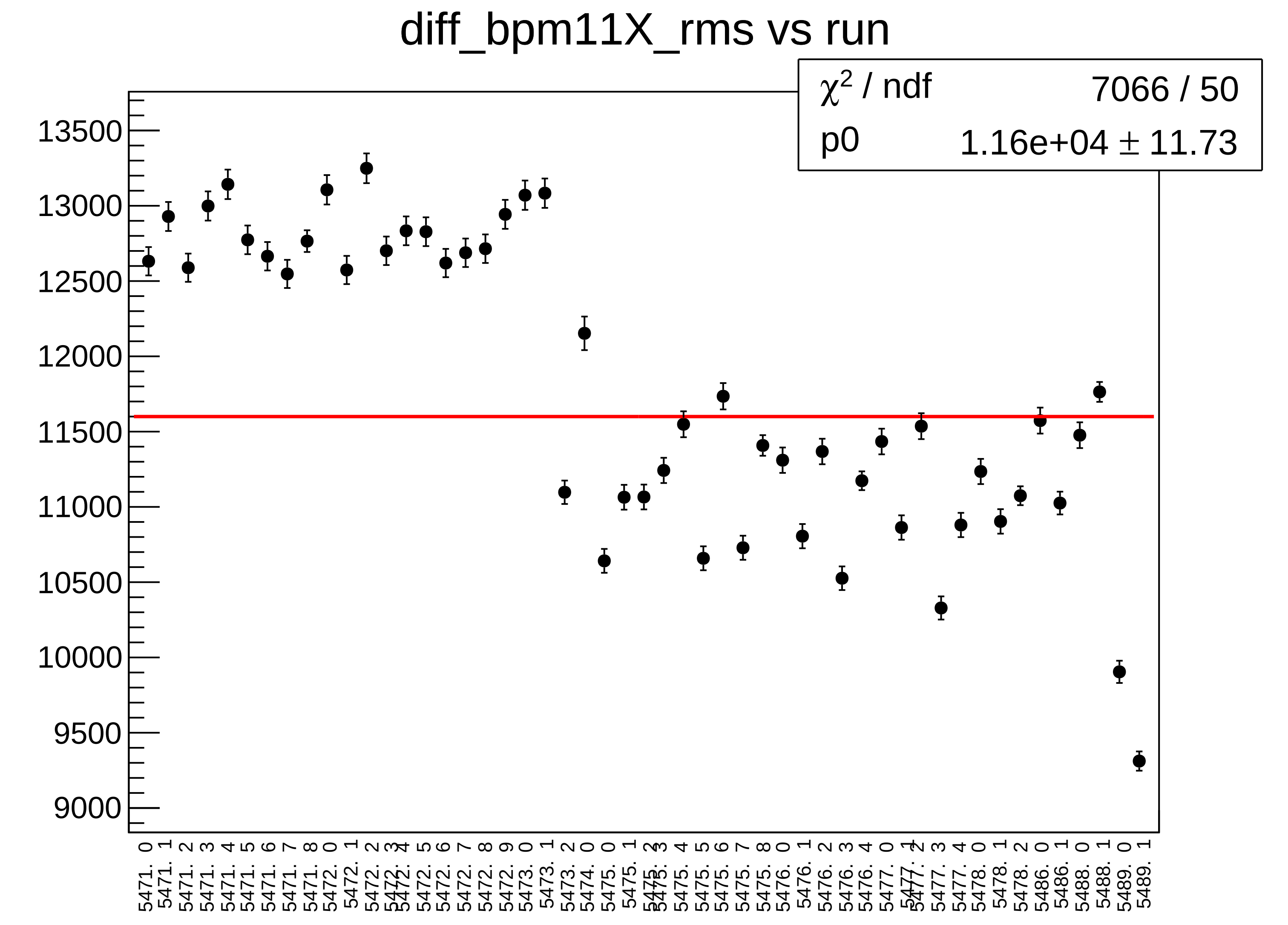
diff_bpm1Y_mean vs run
χ^2 / ndf 44.67 / 50
p0 27.21 ± 12.94
pull
Entries 51
Mean 67.59
Std Dev 35.41
pull1D
Entries 51
Mean 0.04547
Std Dev 0.9348



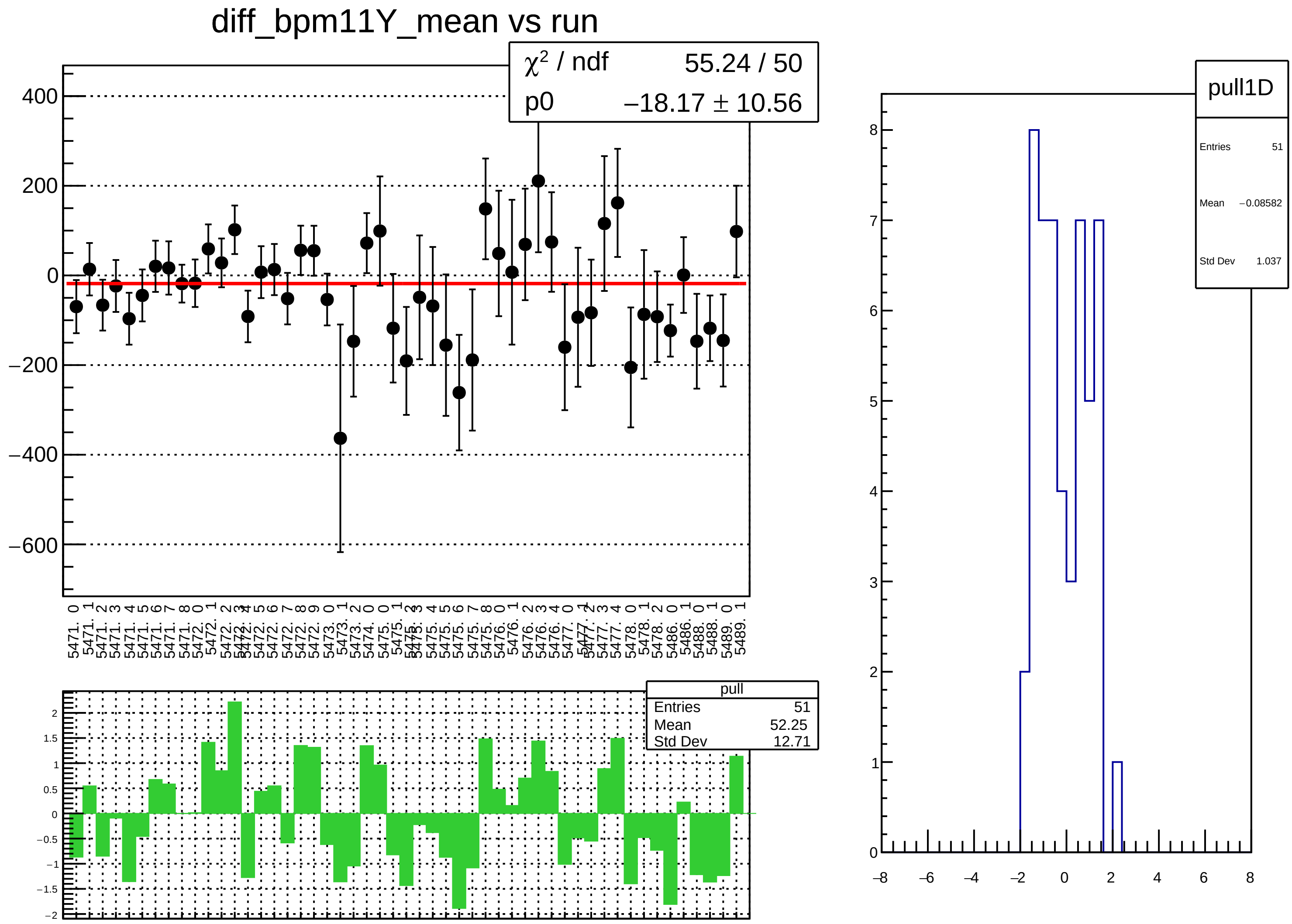
diff_bpm1Y_rms vs run
χ^2 / ndf 5.271e+04 / 50
p0 8835 ± 9.15
16000
14000
12000
10000
8000



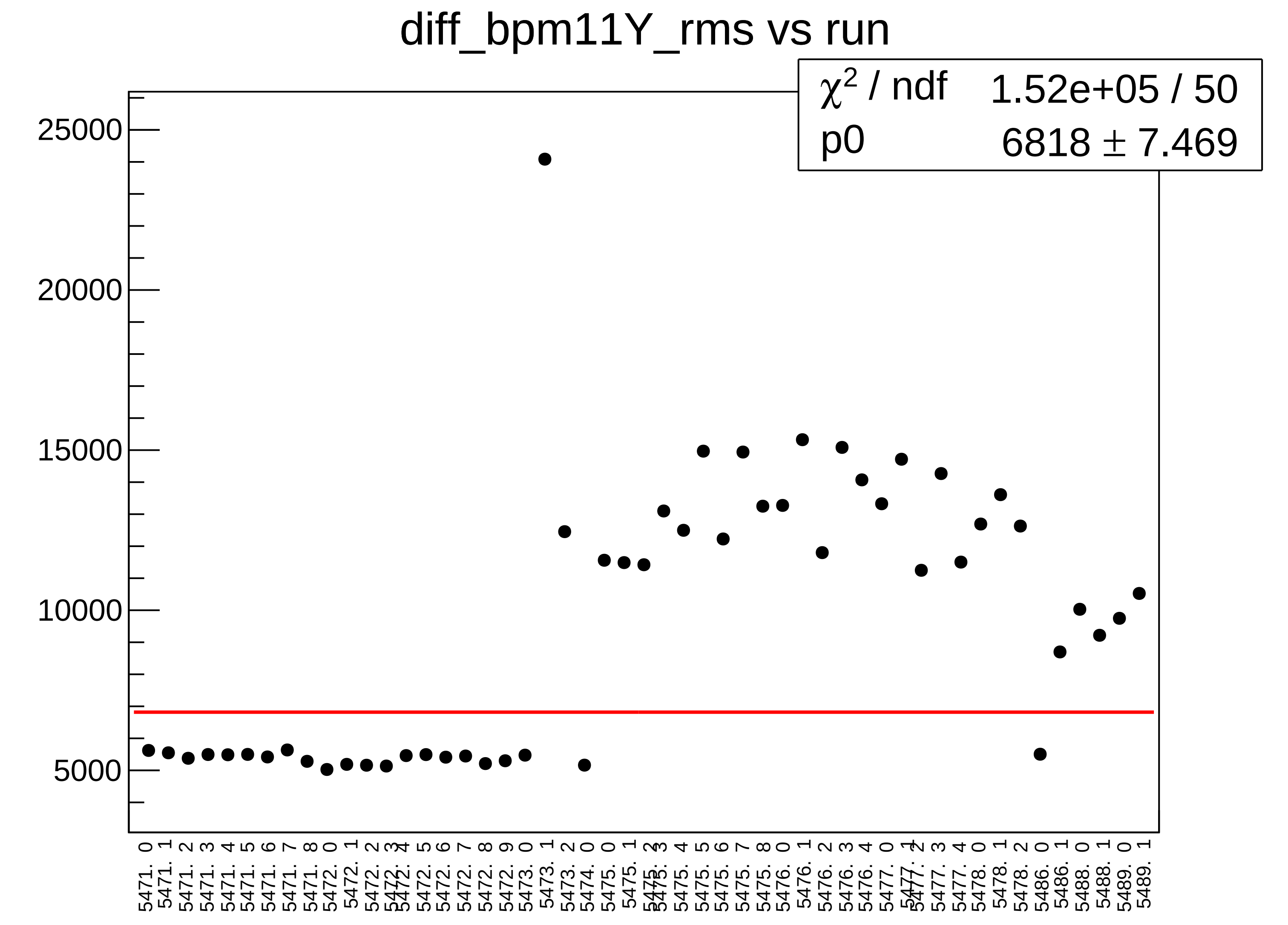
diff_bpm11X_mean vs run
χ2 / ndf 53.04 / 50
p0 −6.944 ± 16.59
400
200
0
−200
−400
−600
pull
Entries 51
Mean 85.44
Std Dev 60.64
pull1D
Entries 51
Mean −0.01288
Std Dev 1.02

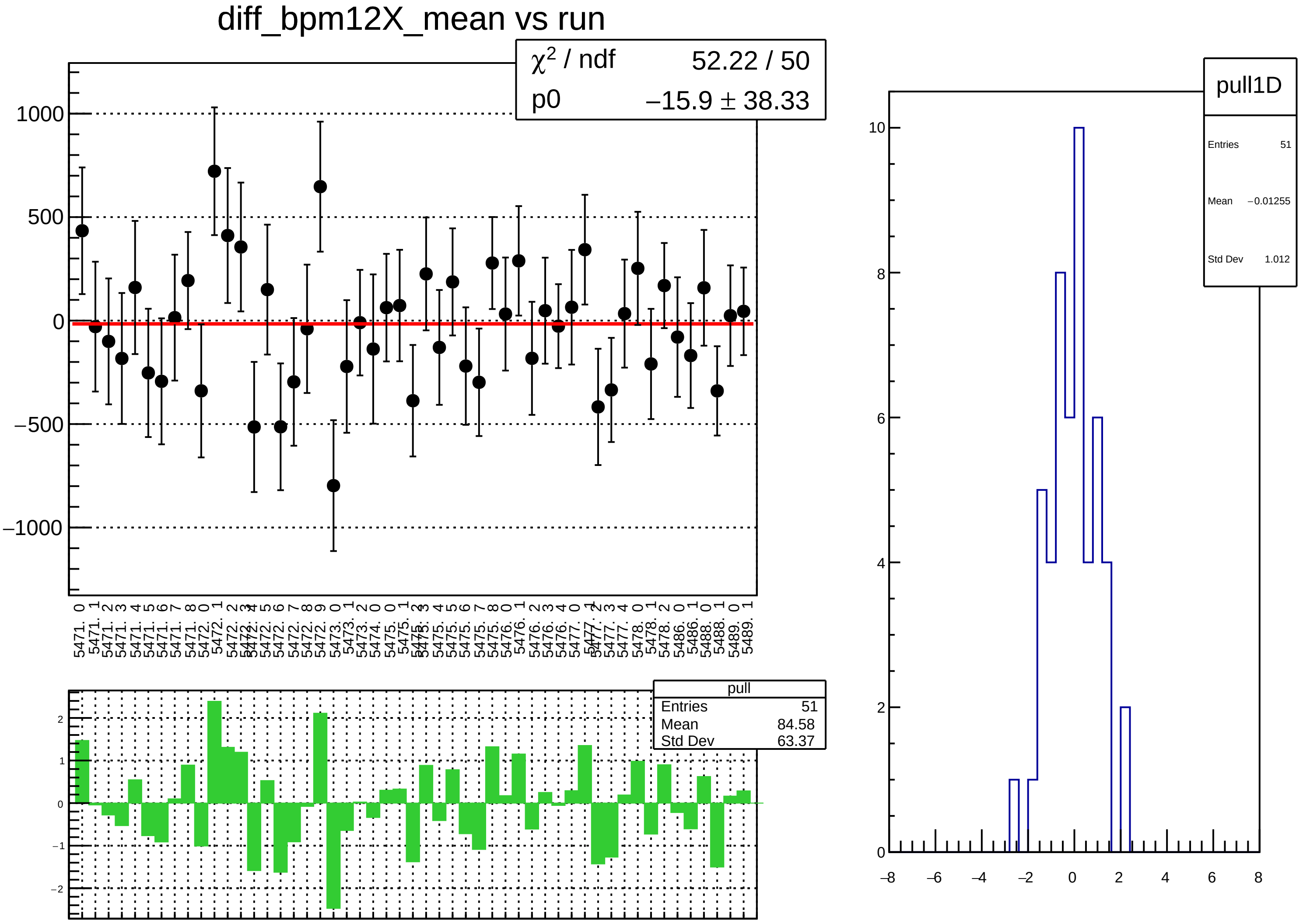


diff_bpm11X_rms vs run
χ^2 / ndf 7066 / 50
p0 1.16e+04 ± 11.73
13500
13000
12500
12000
11500
11000
10500
10000
9500
9000
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1

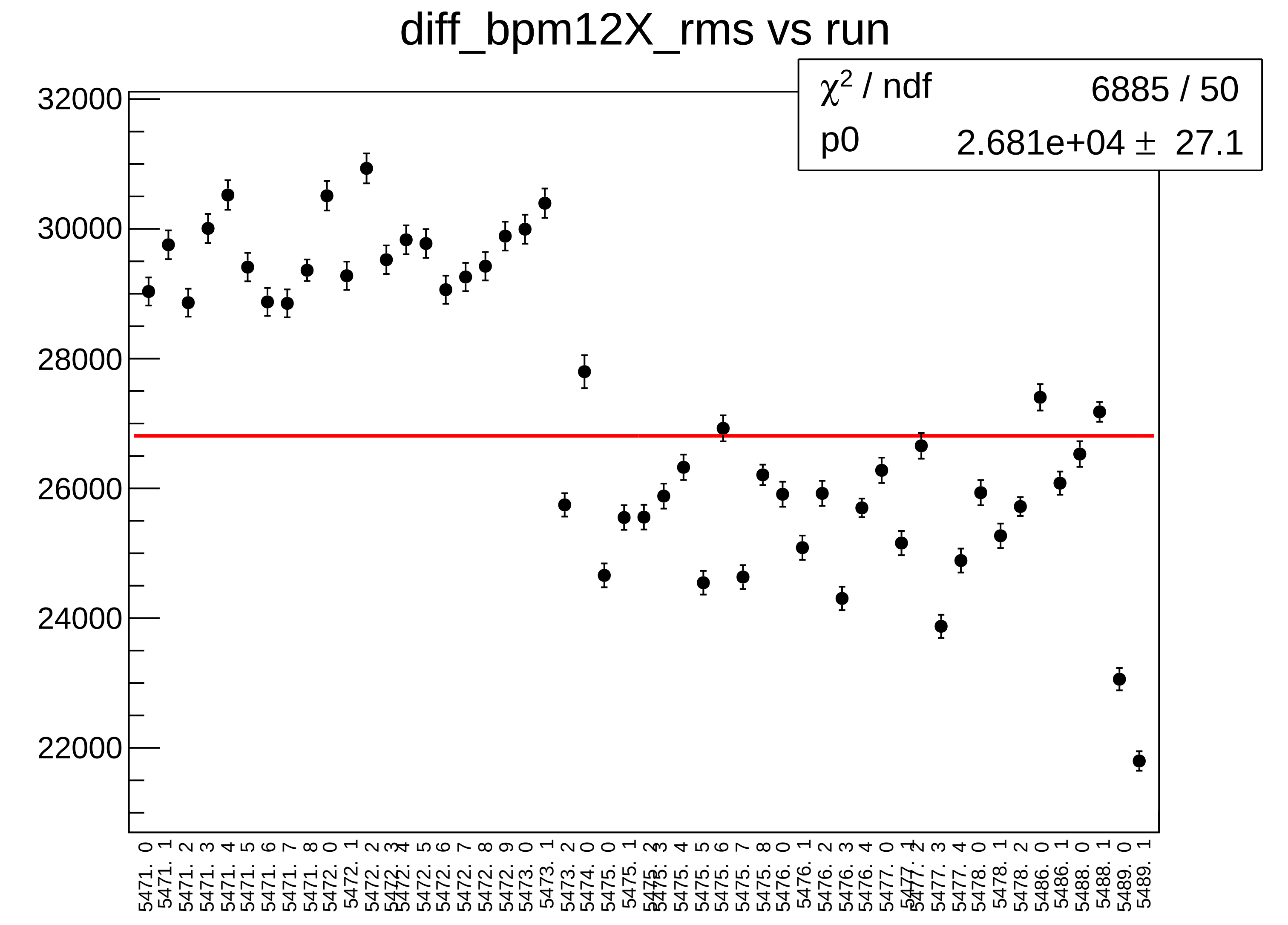


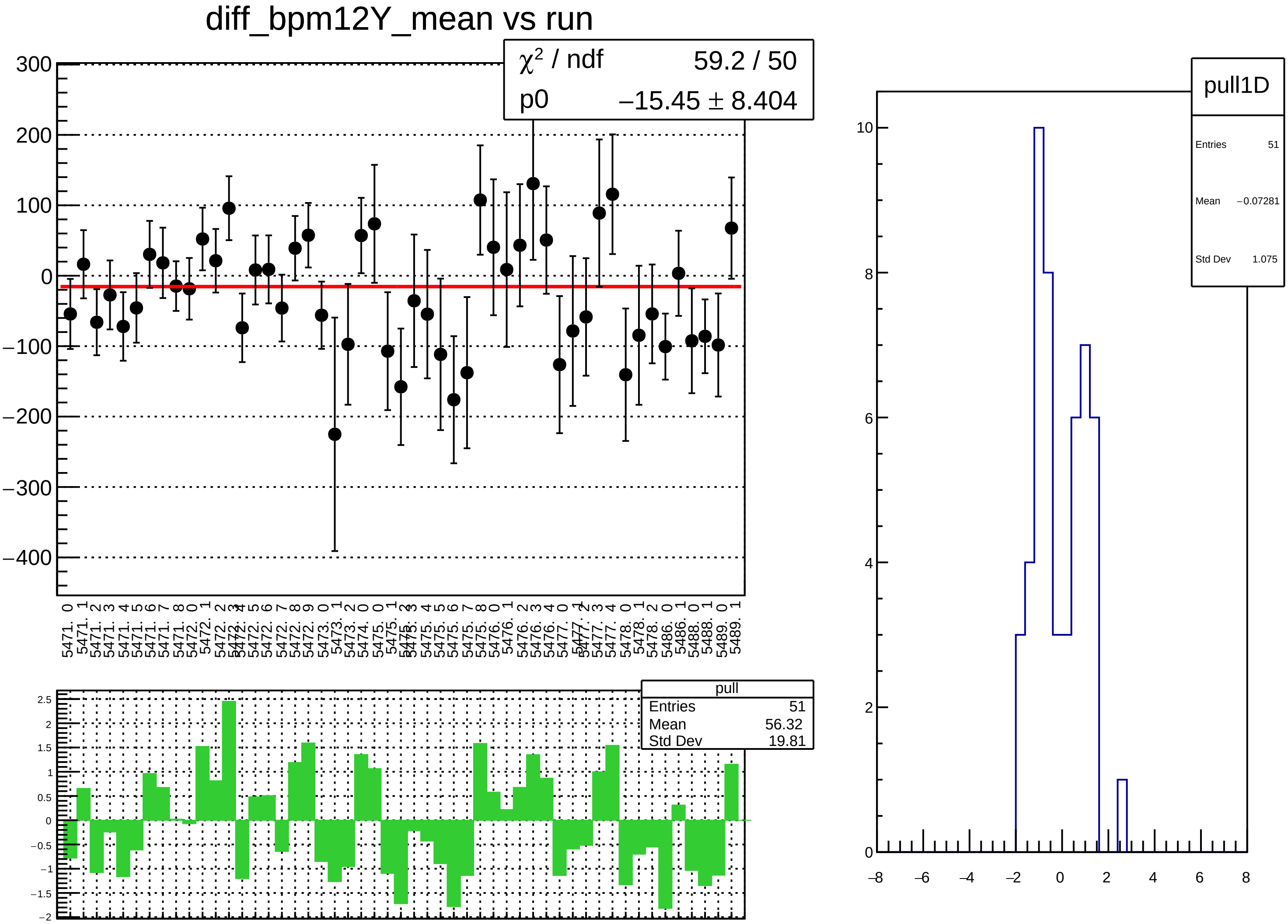
diff_bpm11Y_mean vs run
χ2 / ndf 55.24 / 50
p0 −18.17 ± 10.56
pull
Entries 51
Mean 52.25
Std Dev 12.71
pull1D
Entries 51
Mean −0.08582
Std Dev 1.037


diff_bpm11Y_rms vs run
χ^2 / ndf 1.52e+05 / 50
p0 6818 ± 7.469
25000
20000
15000
10000
5000
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1

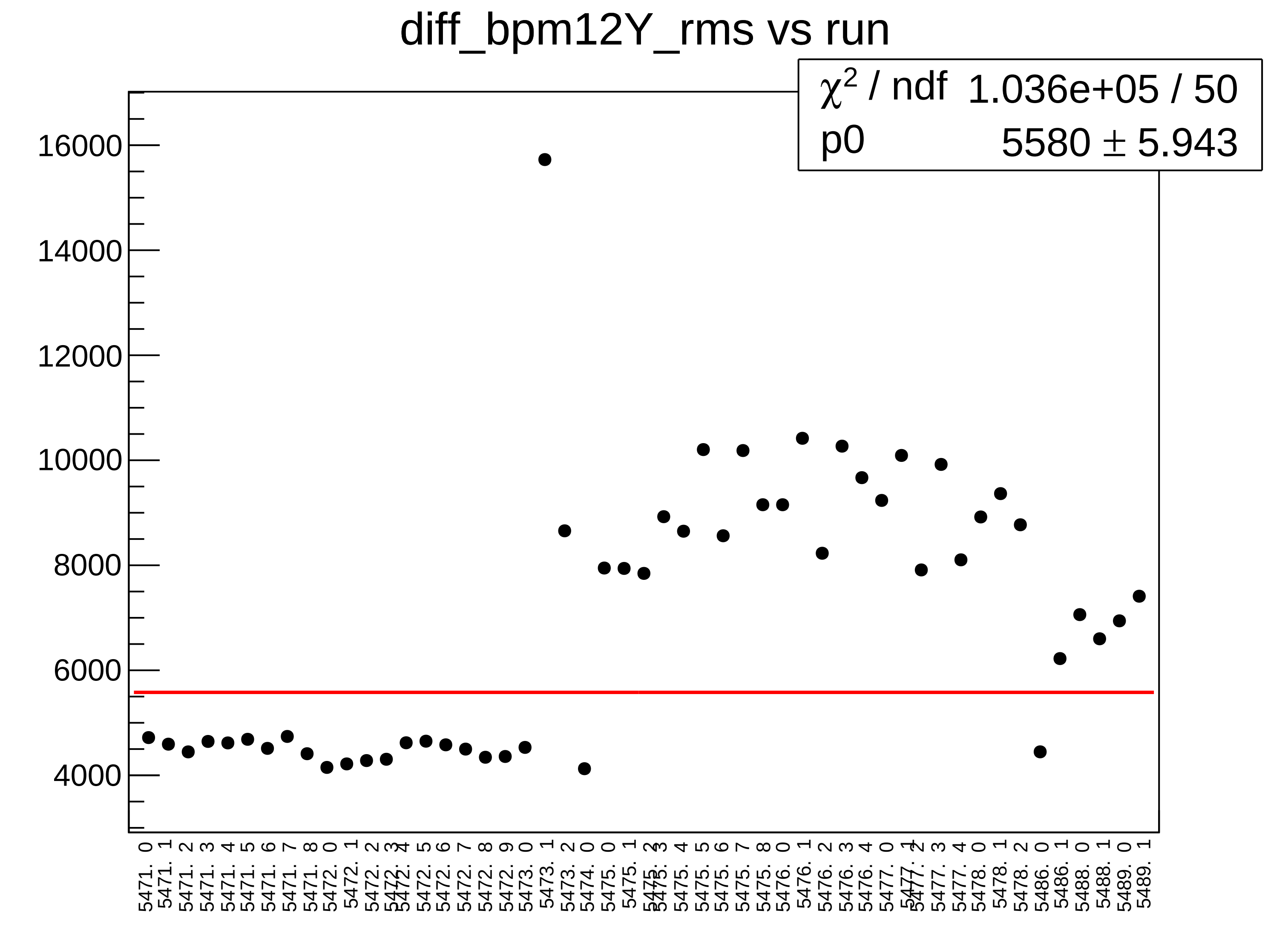


diff_bpm12X_mean vs run
χ^2 / ndf 52.22 / 50
p0 −15.9 ± 38.33
pull
Entries 51
Mean 84.58
Std Dev 63.37
pull1D
Entries 51
Mean −0.01255
Std Dev 1.012

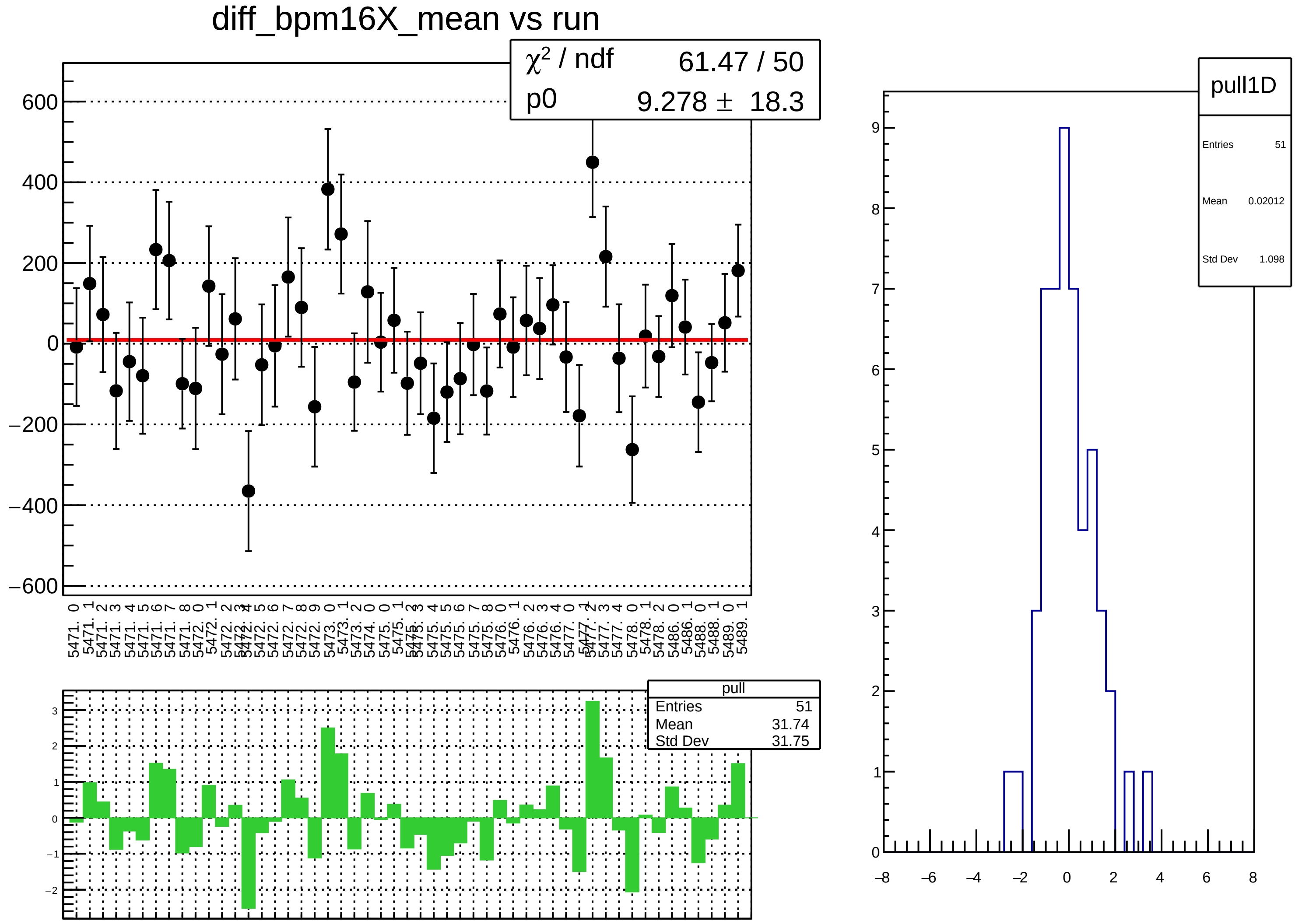

diff_bpm12X_rms vs run
χ² / ndf 6885 / 50
p0 2.681e+04 ± 27.1
32000
30000
28000
26000
24000
22000



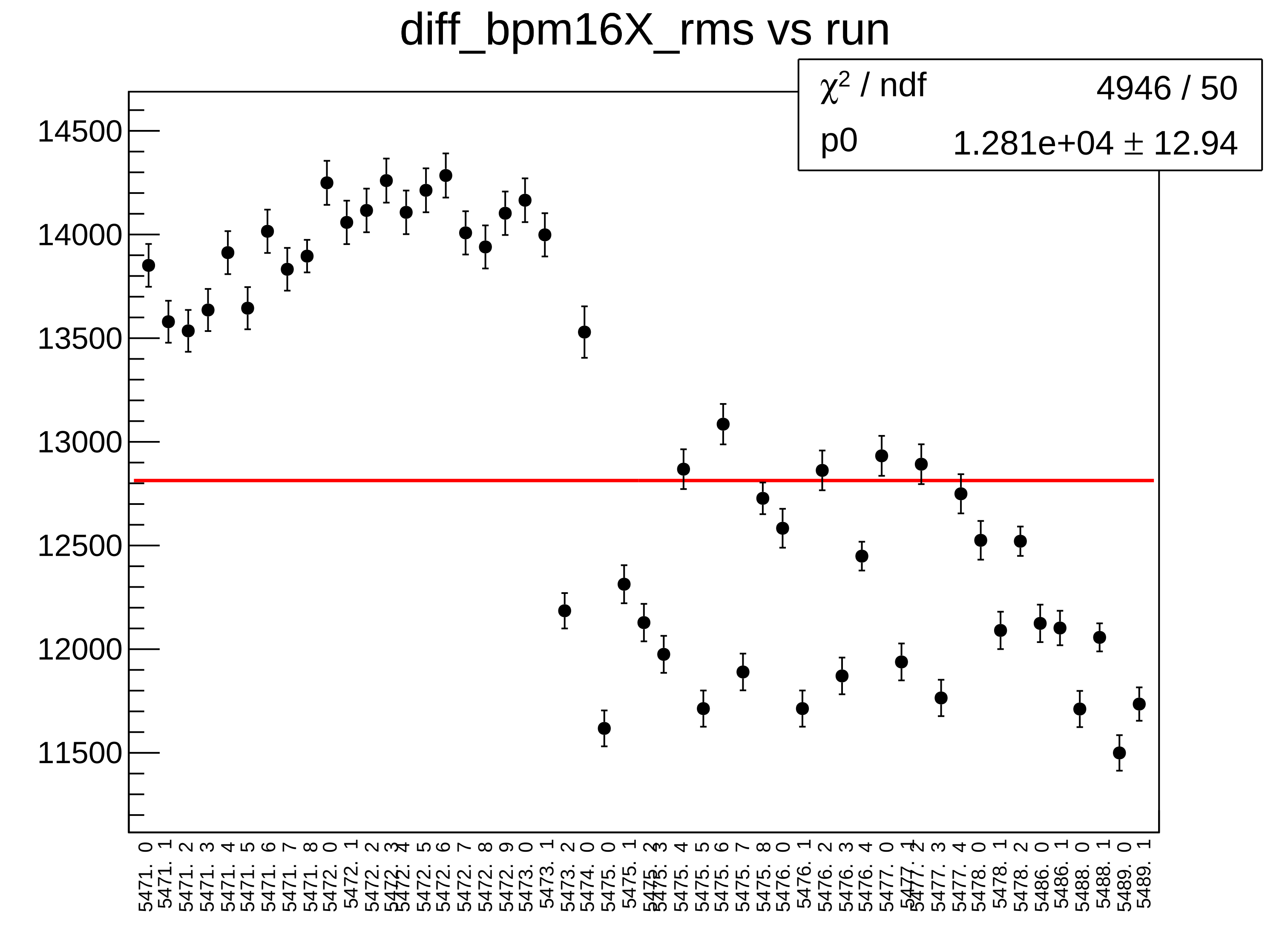
diff_bpm12Y_mean vs run
χ^2 / ndf 59.2 / 50
p0 −15.45 ± 8.404
pull
Entries 51
Mean 56.32
Std Dev 19.81
pull1D
Entries 51
Mean −0.07281
Std Dev 1.075

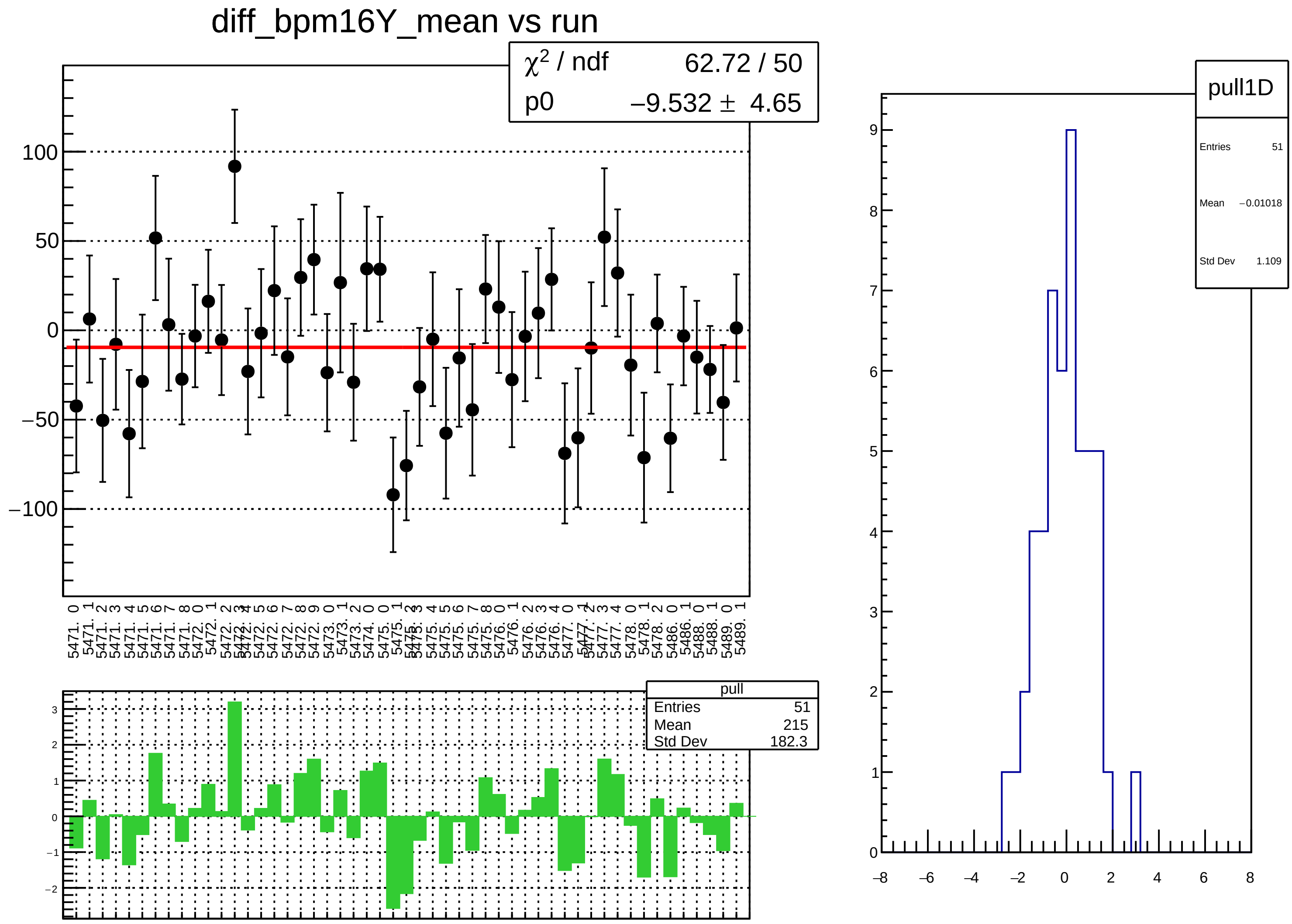


diff_bpm12Y_rms vs run
χ^2 / ndf 1.036e+05 / 50
p0 5580 ± 5.943
16000
14000
12000
10000
8000
6000
4000



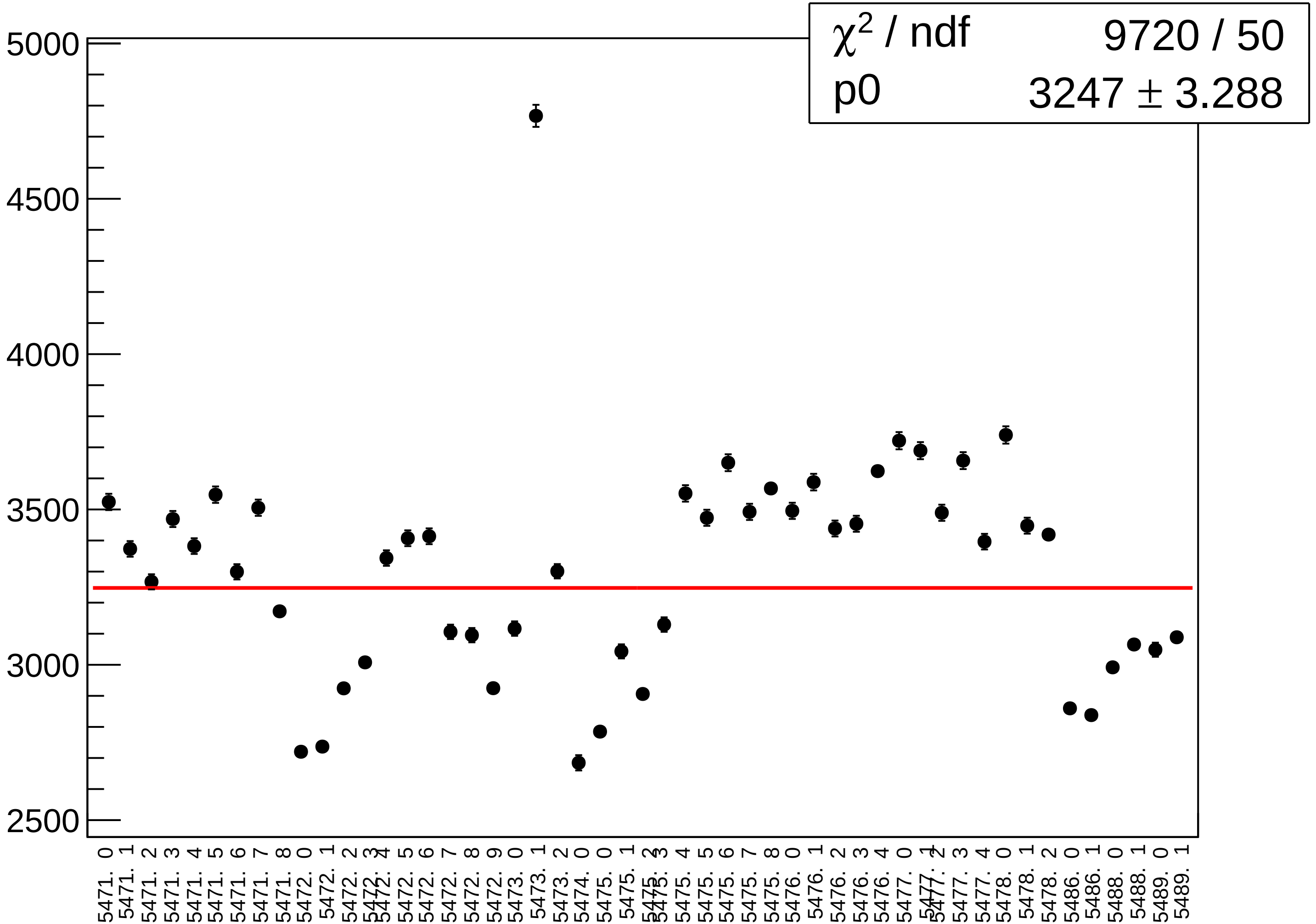
diff_bpm16X_mean vs run
χ2 / ndf 61.47 / 50
p0 9.278 ± 18.3
pull
Entries 51
Mean 31.74
Std Dev 31.75
pull1D
Entries 51
Mean 0.02012
Std Dev 1.098

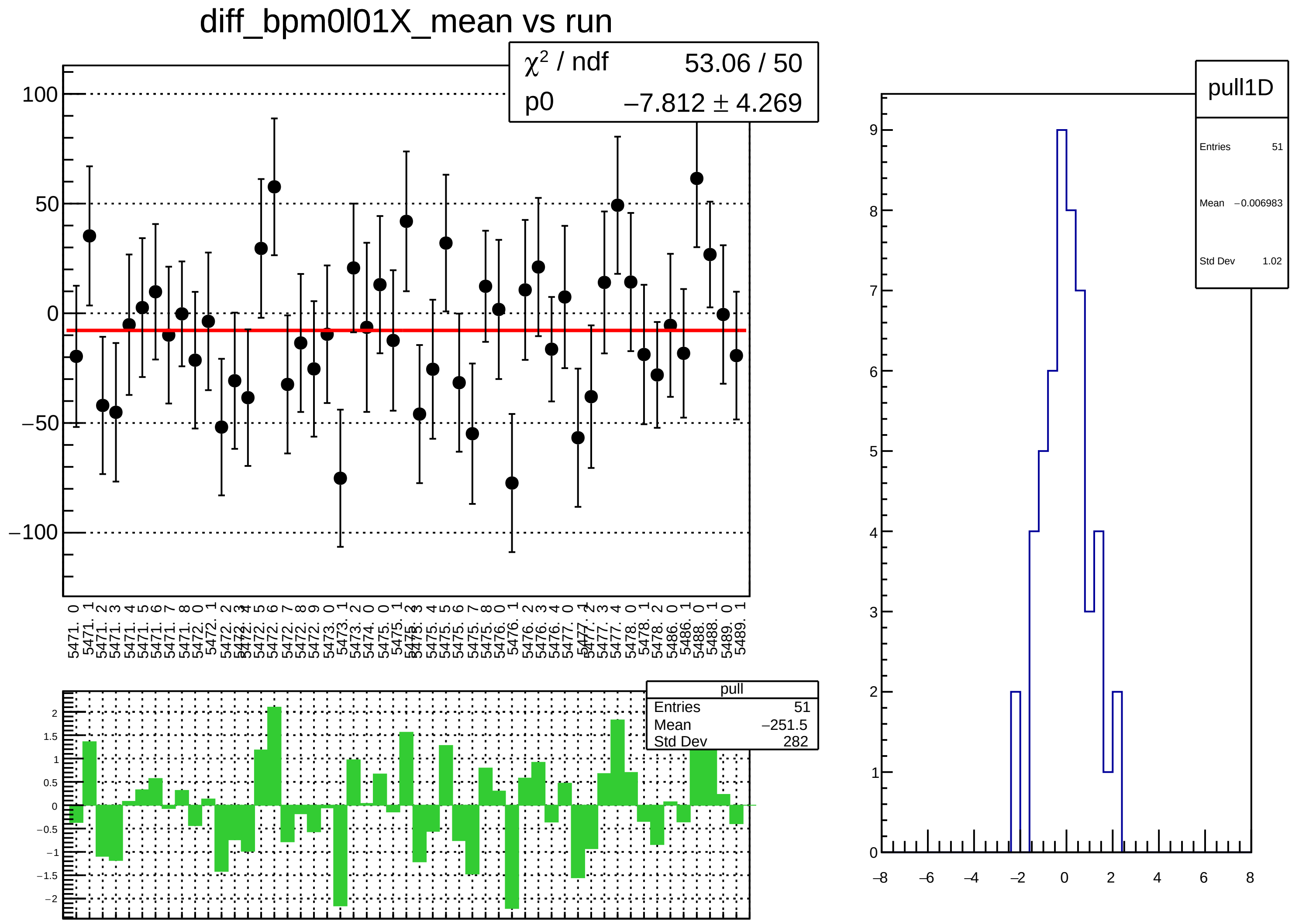

diff_bpm16X_rms vs run
χ^2 / ndf 4946 / 50
p0 1.281e+04 ± 12.94
14500
14000
13500
13000
12500
12000
11500
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



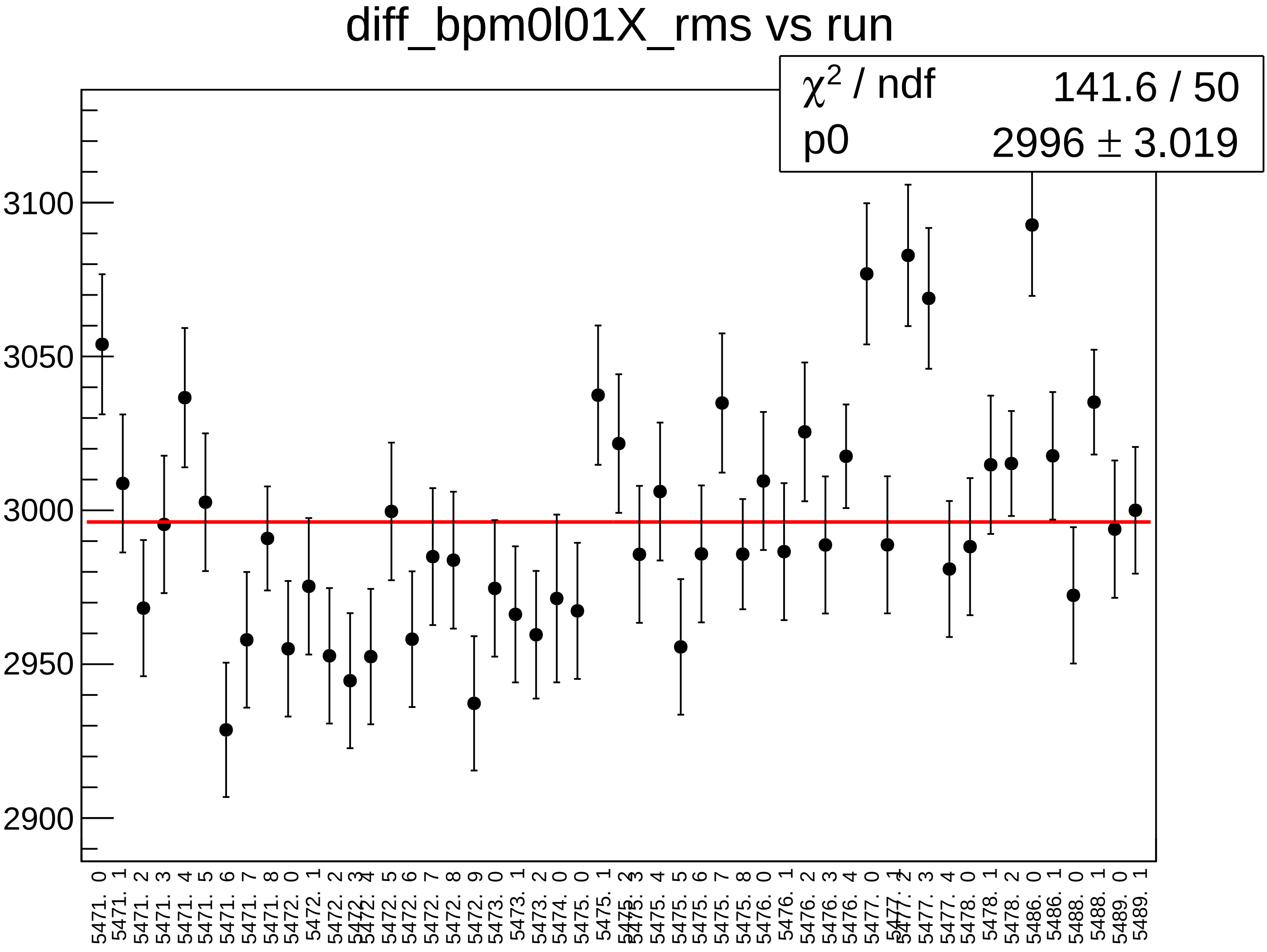
diff_bpm16Y_mean vs run
χ2 / ndf 62.72 / 50
p0 −9.532 ± 4.65
pull
Entries 51
Mean 215
Std Dev 182.3
pull1D
Entries 51
Mean −0.01018
Std Dev 1.109

diff_bpm16Y_rms vs run

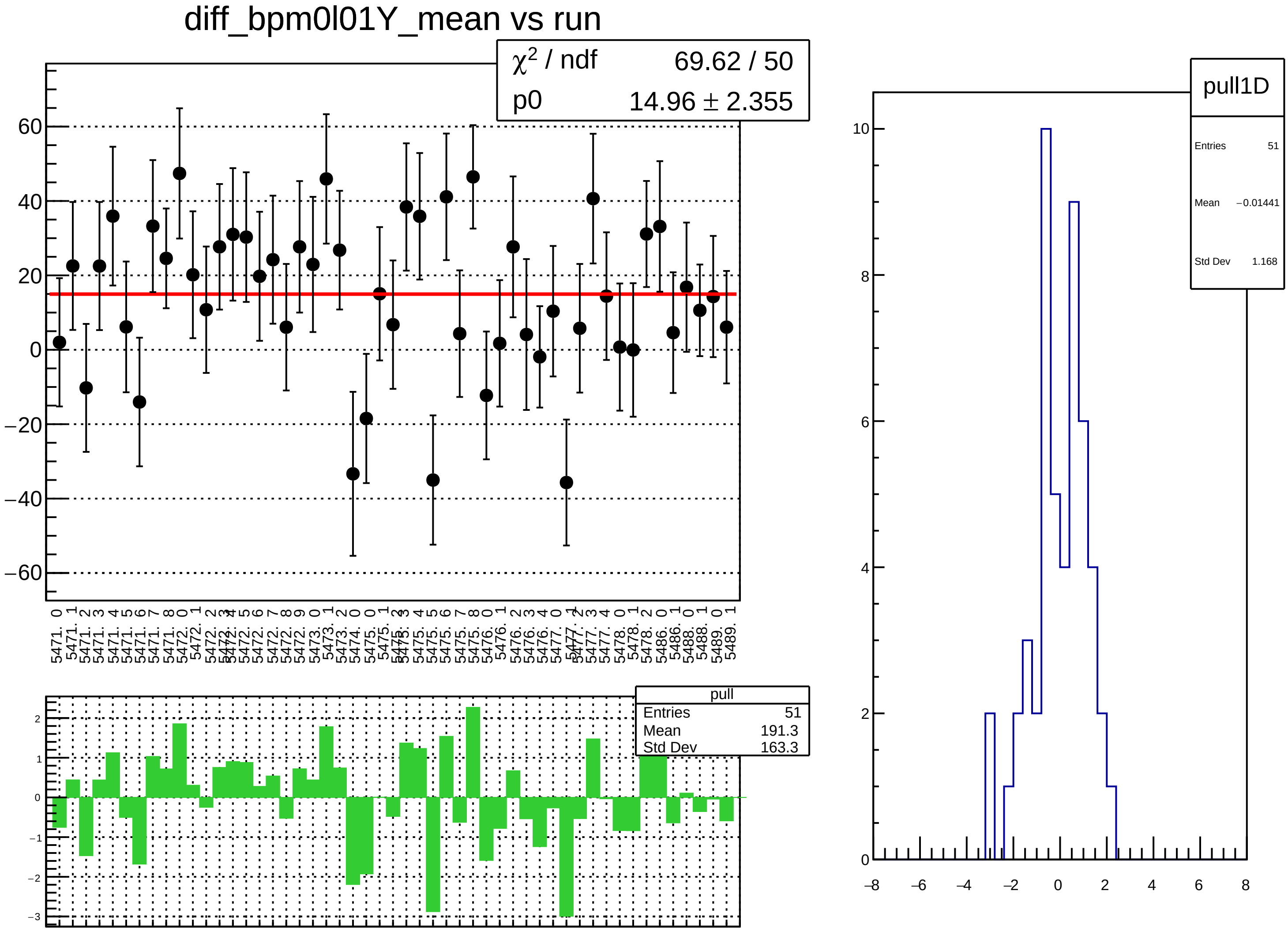


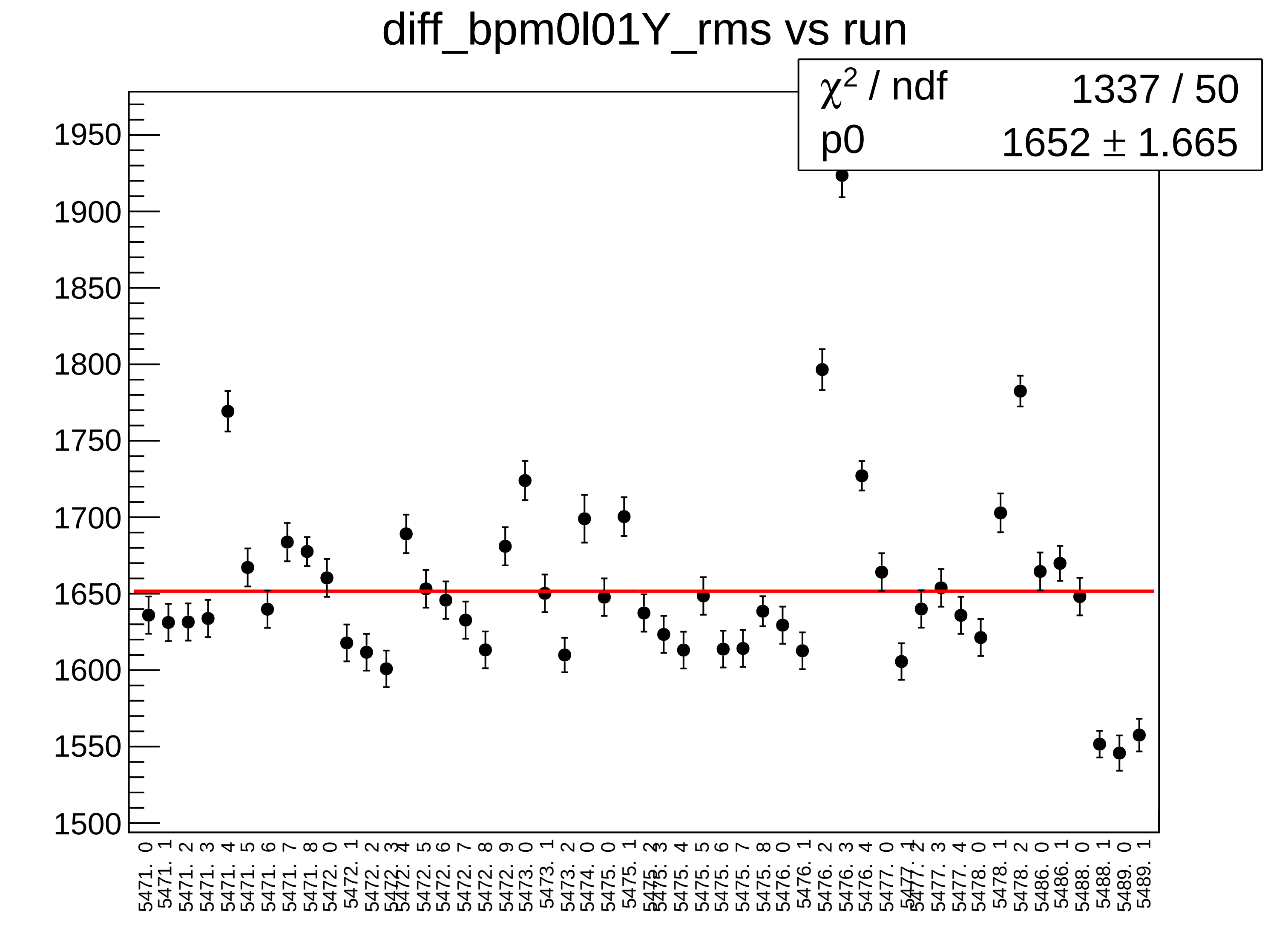


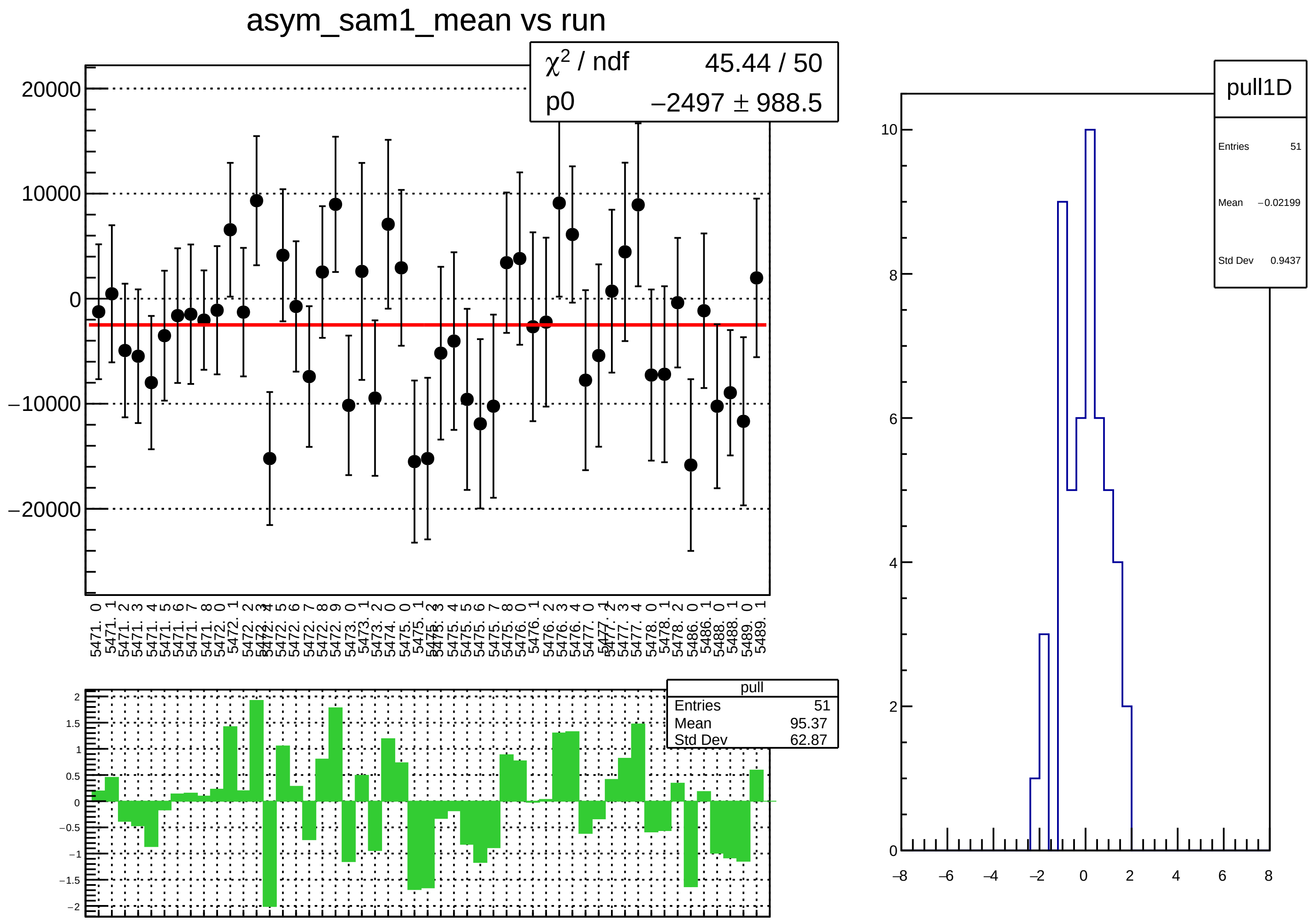
diff_bpm0l01X_mean vs run
χ2 / ndf 53.06 / 50
p0 −7.812 ± 4.269
pull
Entries 51
Mean −251.5
Std Dev 282
pull1D
Entries 51
Mean −0.006983
Std Dev 1.02



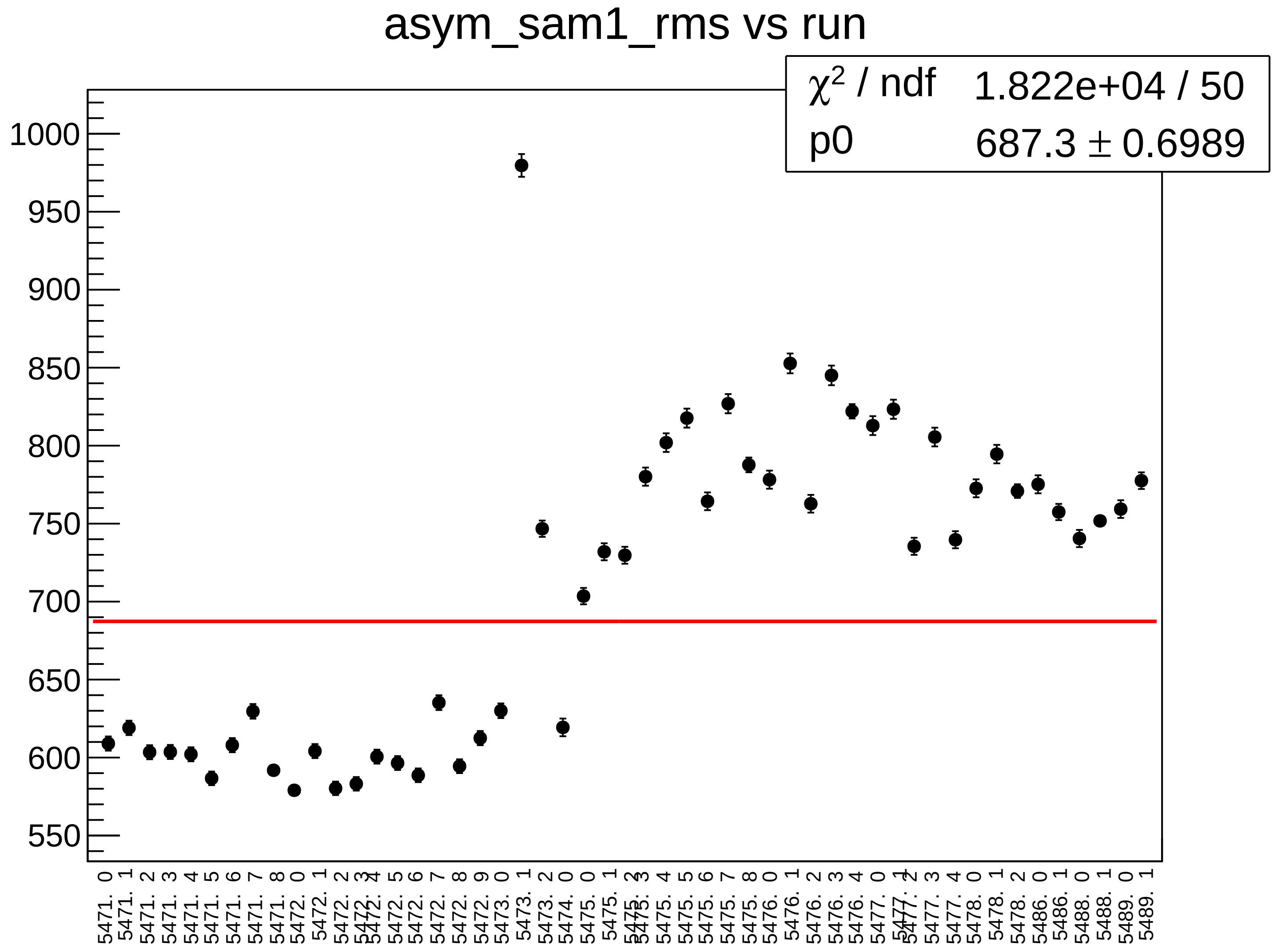
diff_bpm0l01X_rms vs run
χ^2 / ndf 141.6 / 50
p0 2996 ± 3.019
3100
3050
3000
2950
2900


diff_bpm0l01Y_mean vs run
χ2 / ndf 69.62 / 50
p0 14.96 ± 2.355
pull
Entries 51
Mean 191.3
Std Dev 163.3
pull1D
Entries 51
Mean −0.01441
Std Dev 1.168

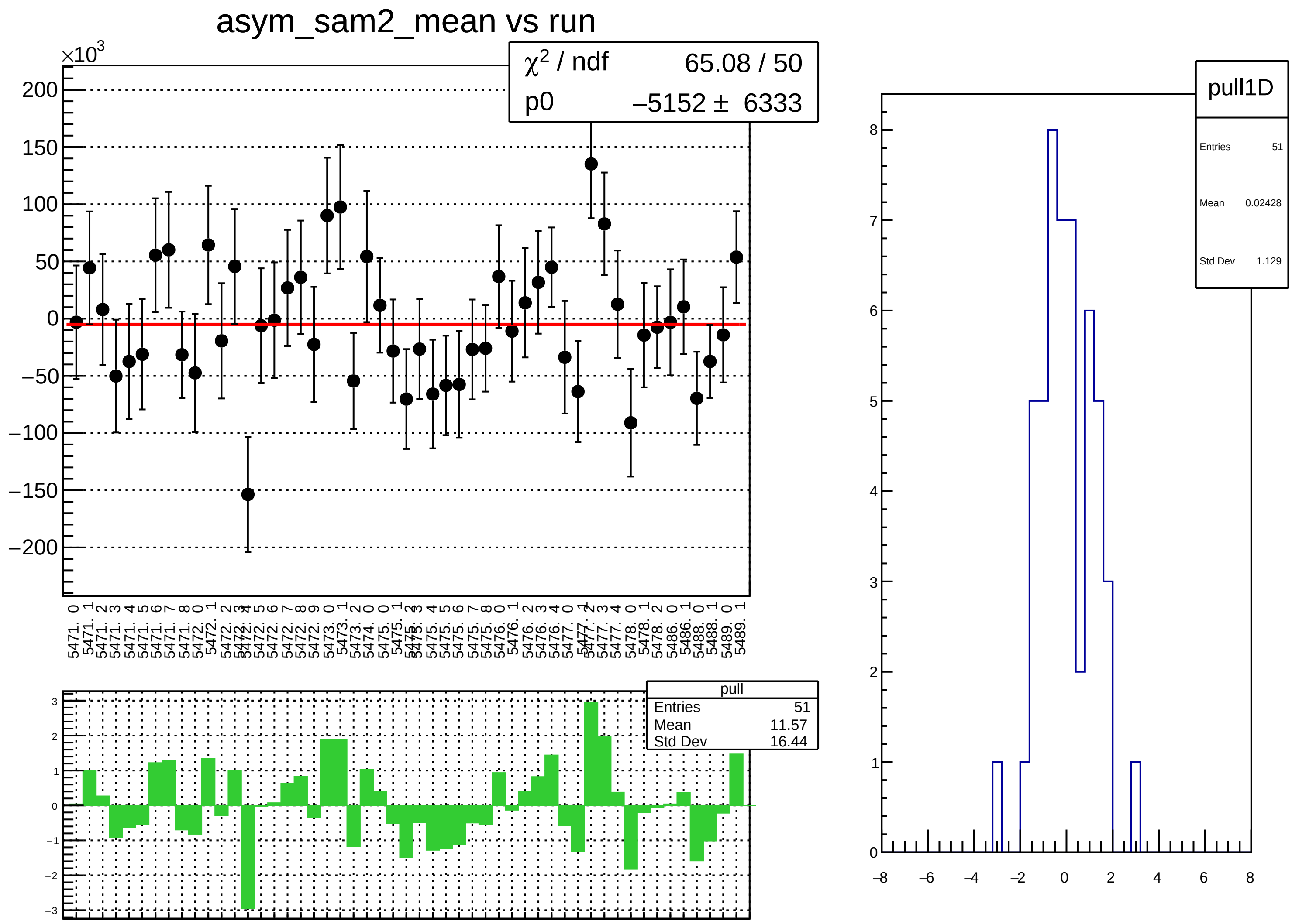

diff_bpm0l01Y_rms vs run
χ2 / ndf 1337 / 50
p0 1652 ± 1.665
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500



asym_sam1_mean vs run
χ^2 / ndf 45.44 / 50
p0 −2497 ± 988.5
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 95.37
Std Dev 62.87
pull1D
Entries 51
Mean −0.02199
Std Dev 0.9437

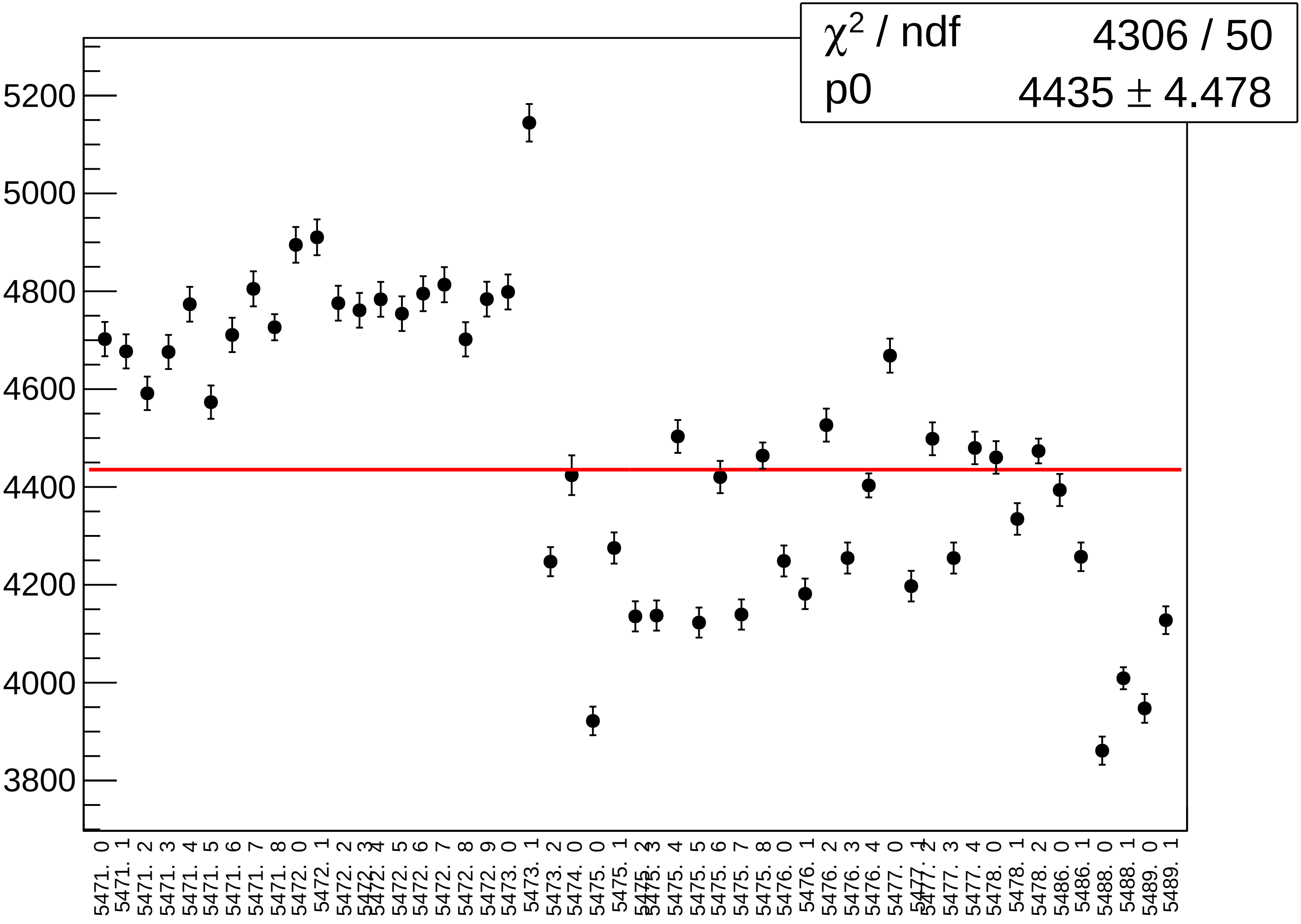


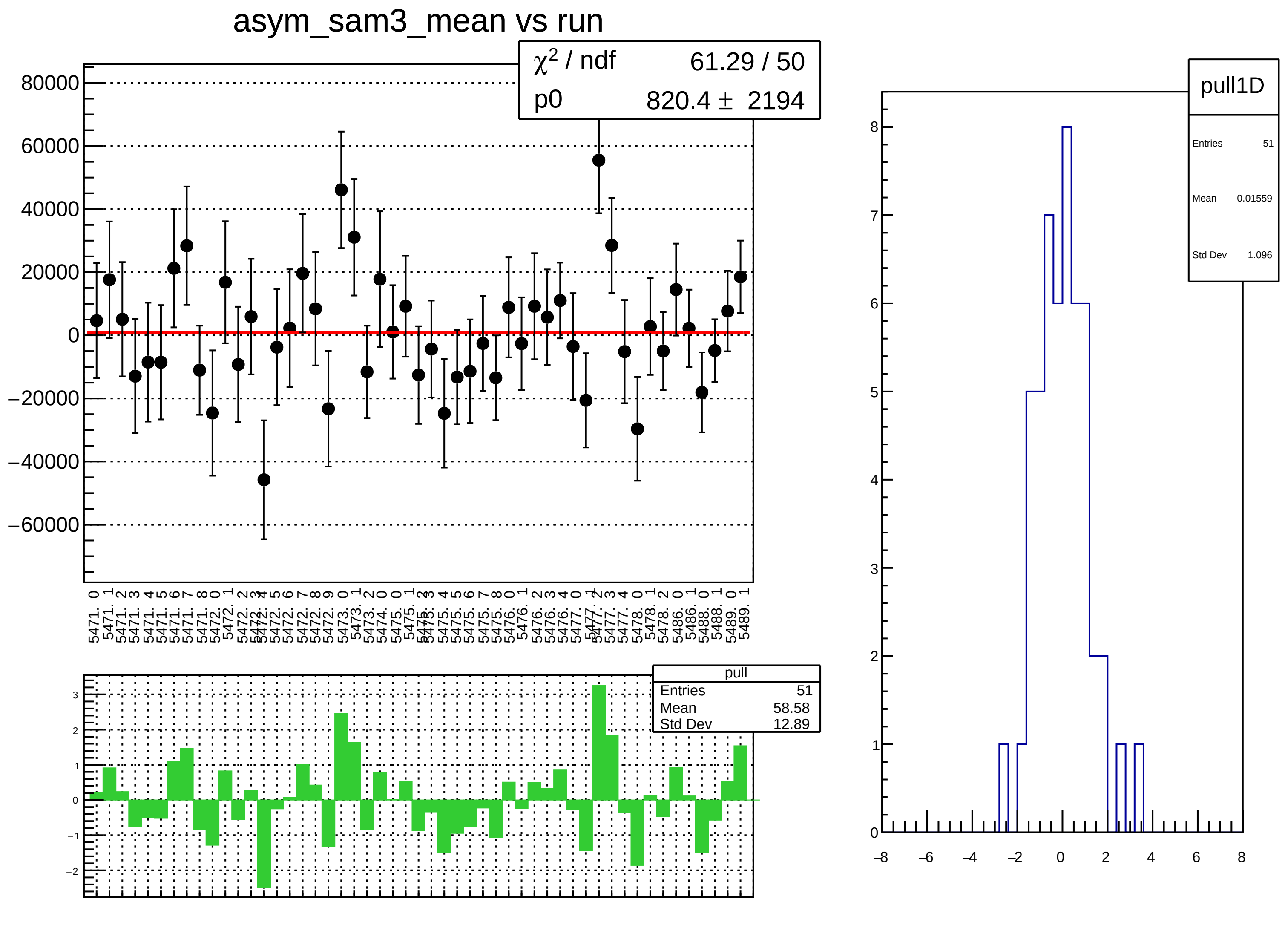
asym_sam1_rms vs run
χ2 / ndf 1.822e+04 / 50
p0 687.3 ± 0.6989
1000
950
900
850
800
750
700
650
600
550



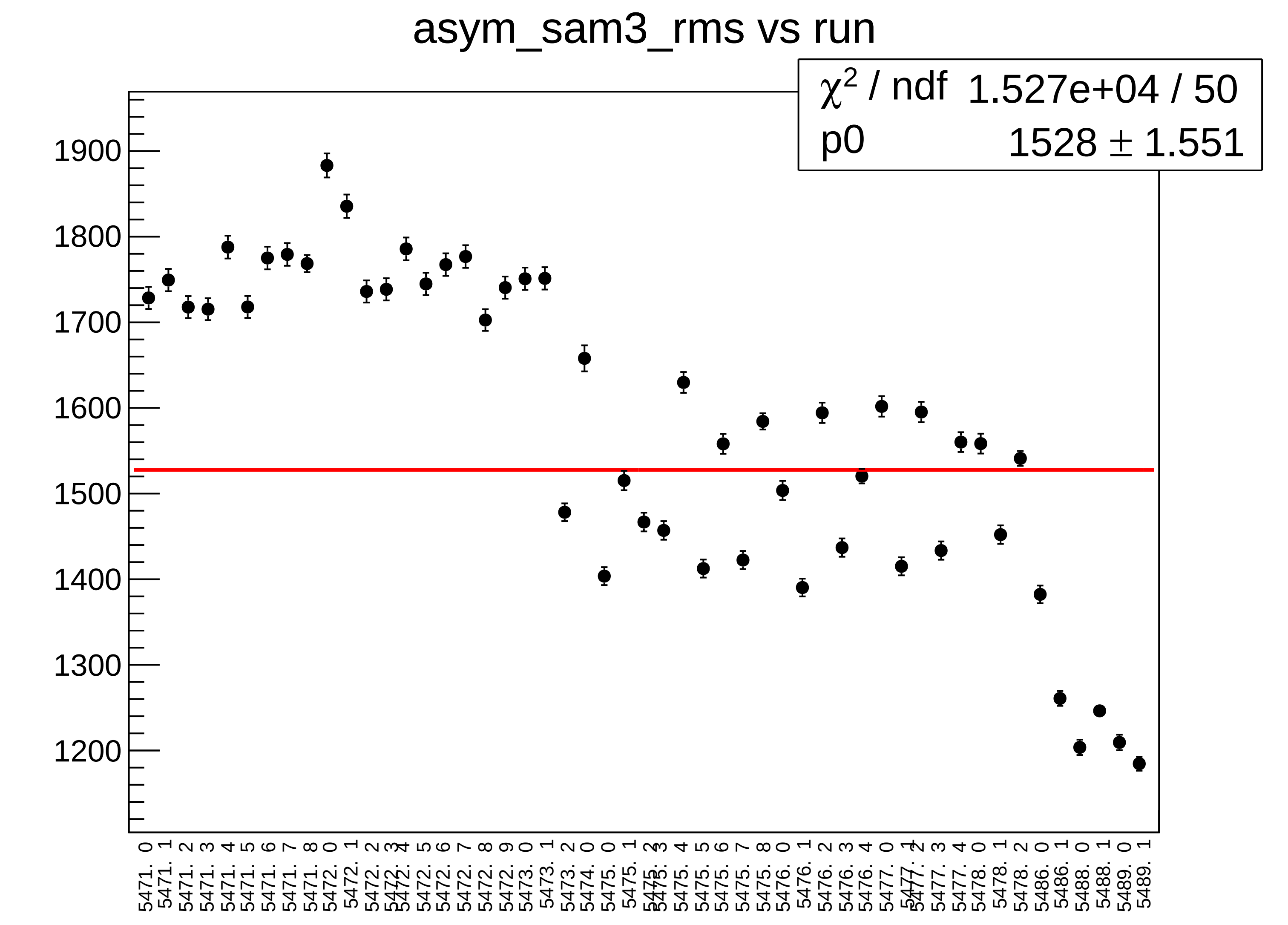
asym_sam2_mean vs run
×10^3
χ2 / ndf 65.08 / 50
p0 −5152 ± 6333
pull
Entries 51
Mean 11.57
Std Dev 16.44
pull1D
Entries 51
Mean 0.02428
Std Dev 1.129

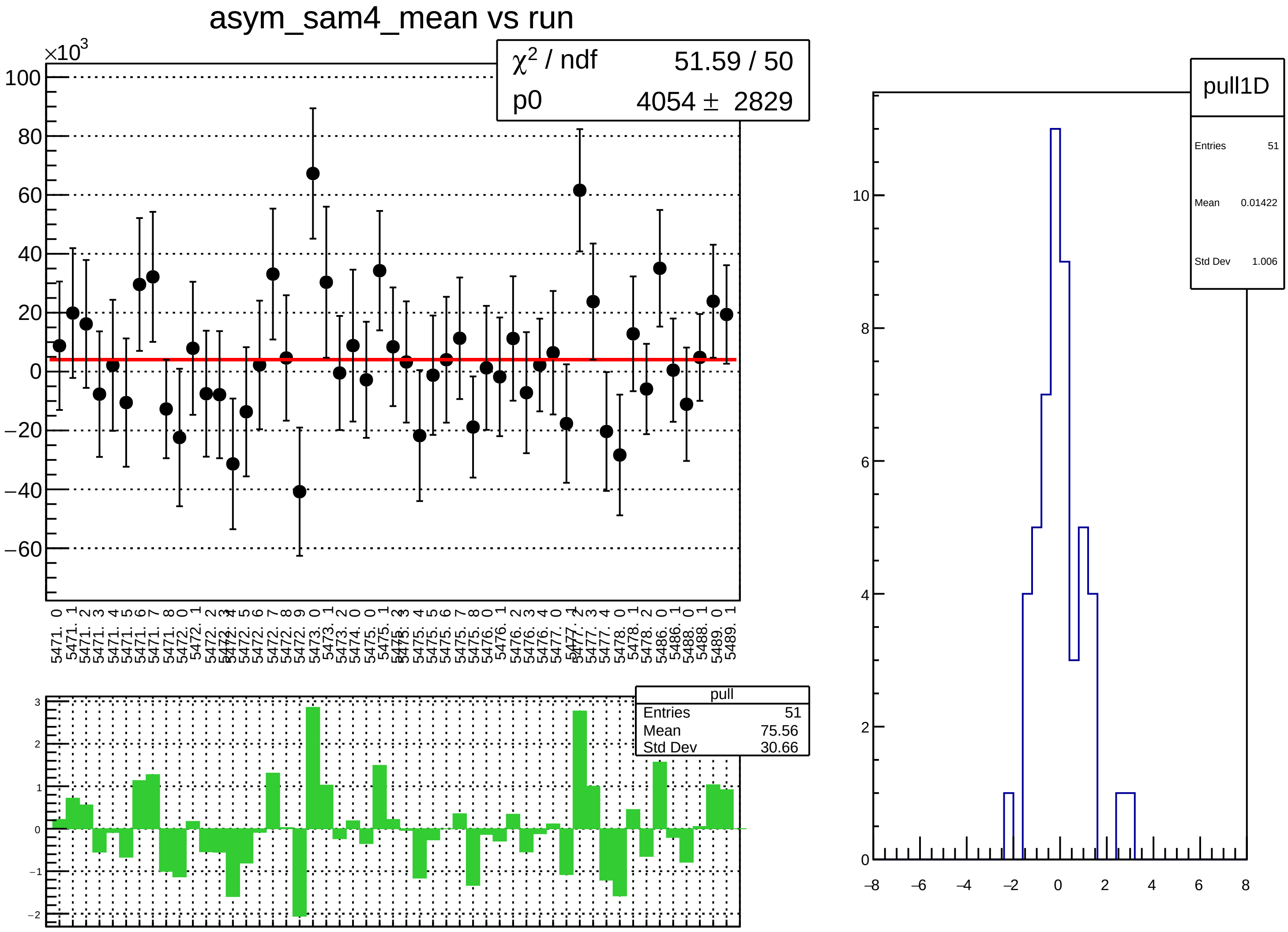
asym_sam2_rms vs run



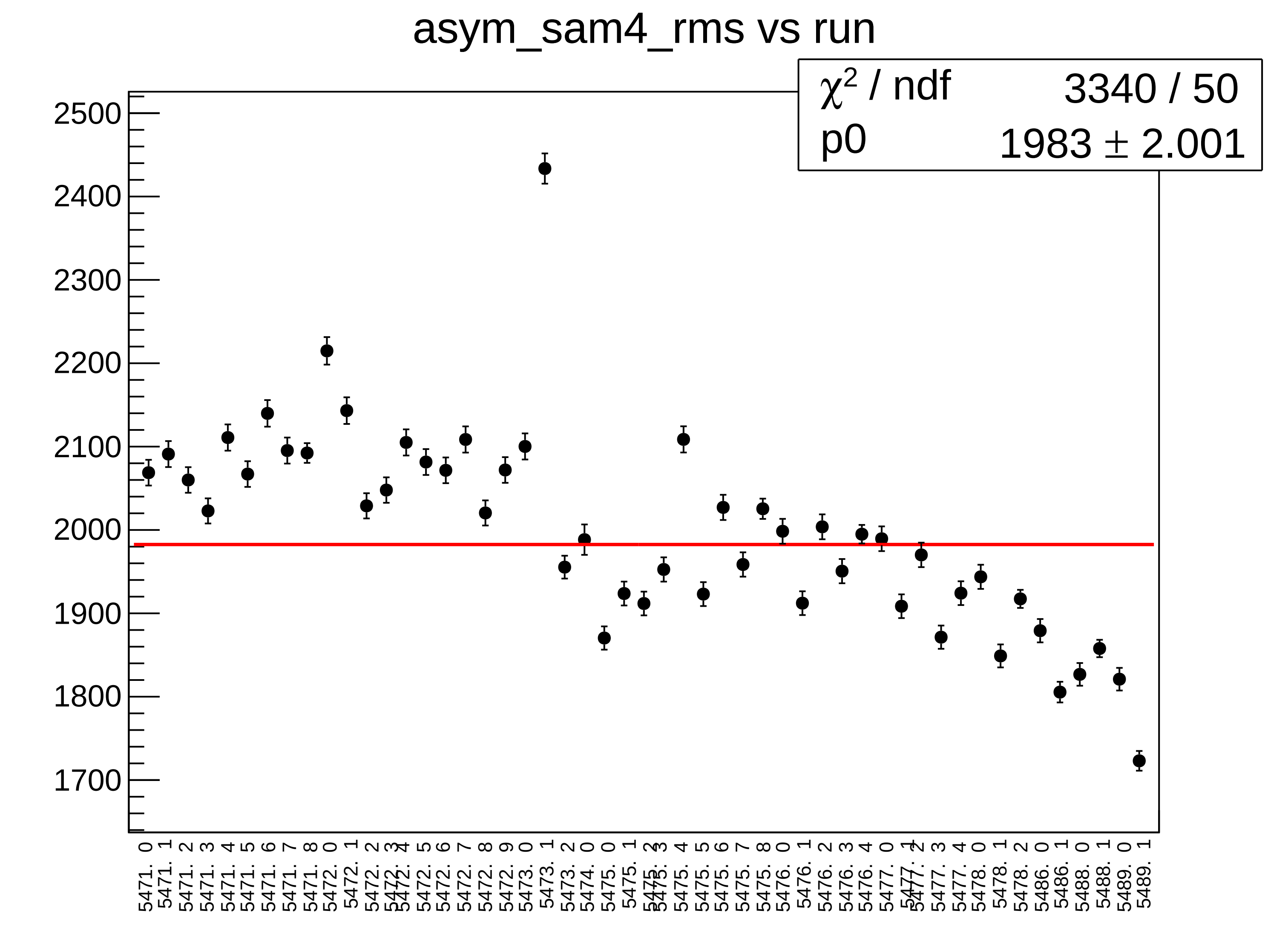


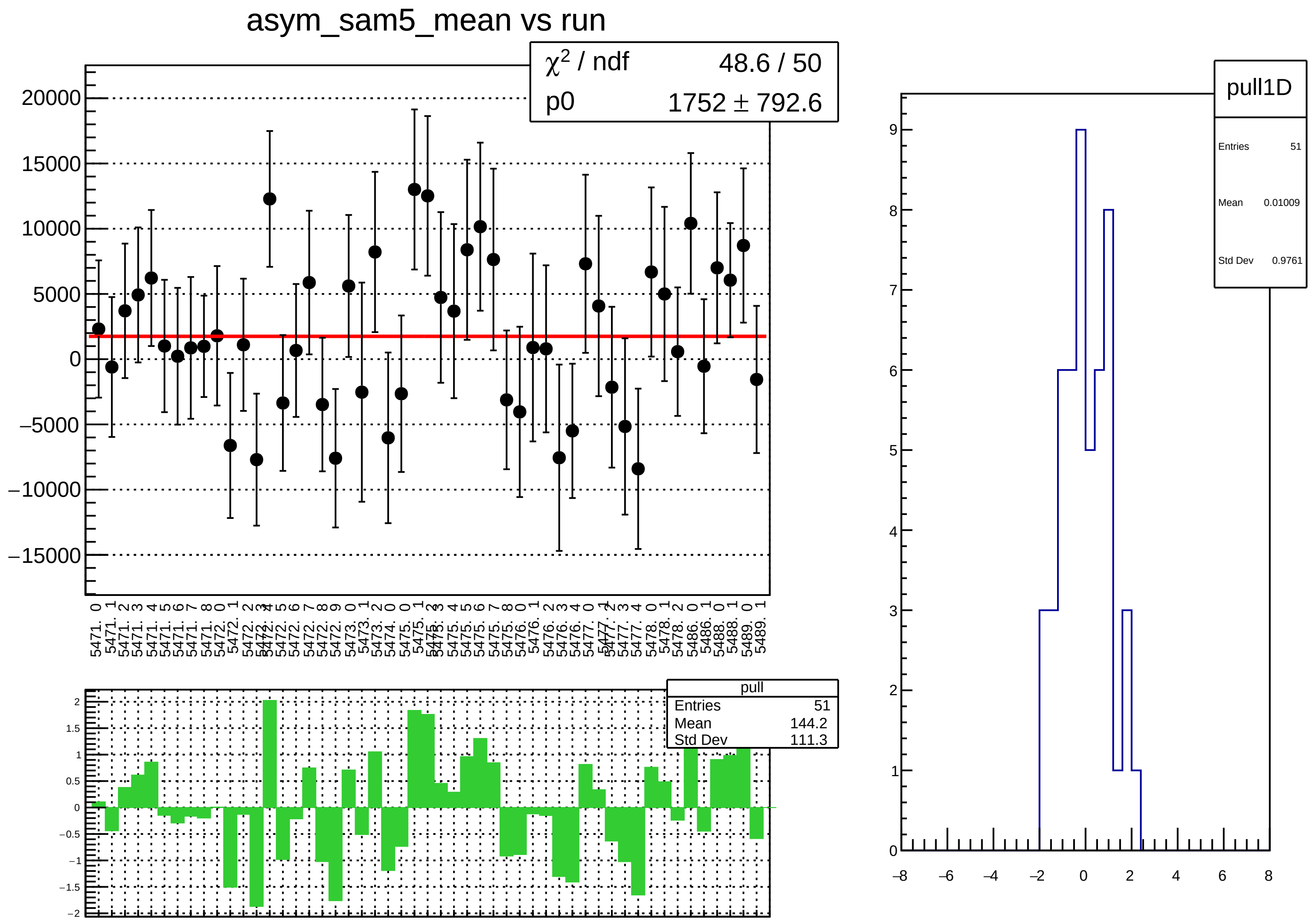
asym_sam3_mean vs run
χ^2 / ndf 61.29 / 50
p0 820.4 ± 2194
pull
Entries 51
Mean 58.58
Std Dev 12.89
pull1D
Entries 51
Mean 0.01559
Std Dev 1.096

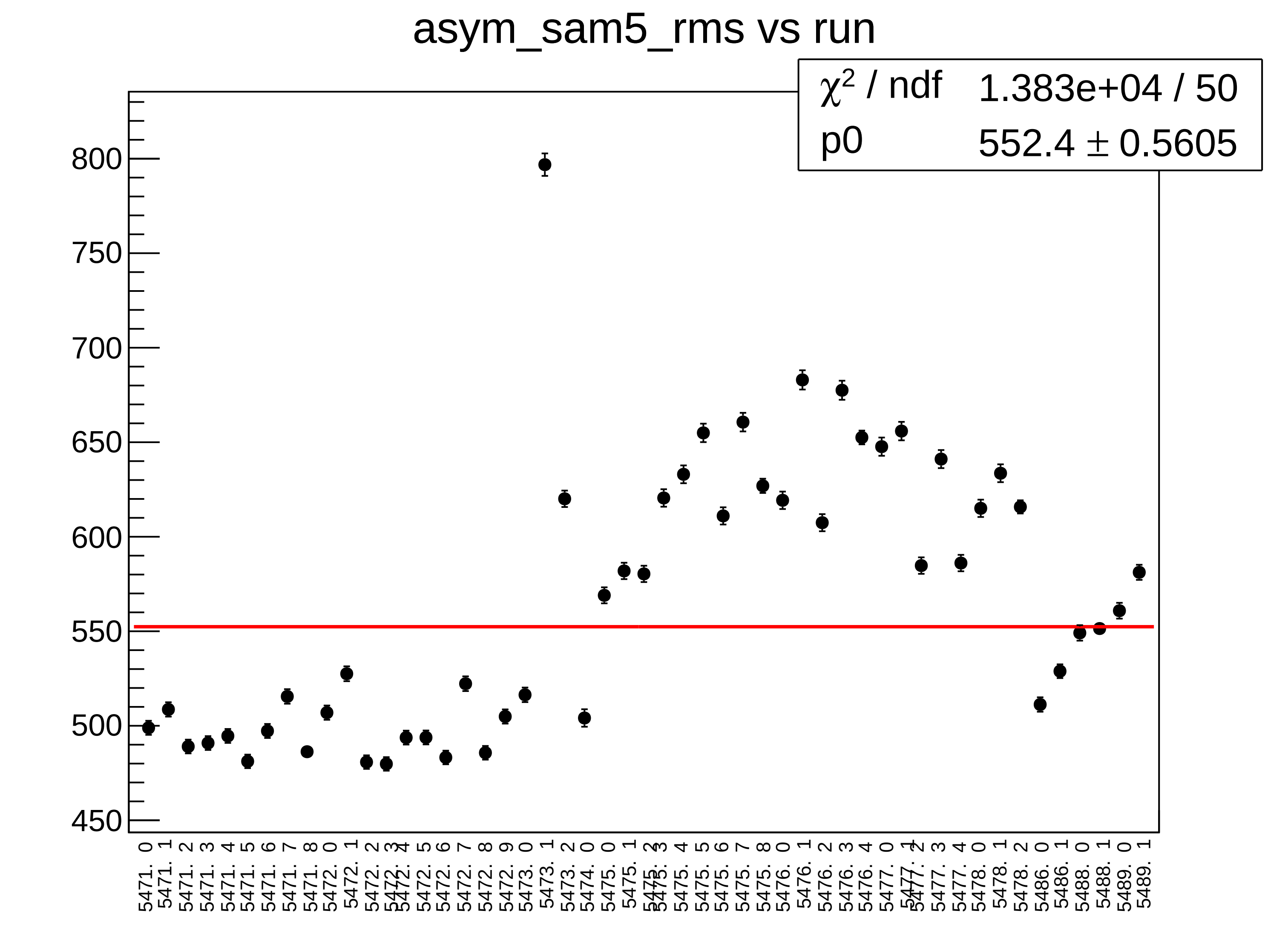

asym_sam3_rms vs run
χ^2 / ndf 1.527e+04 / 50
p0 1528 ± 1.551
1900
1800
1700
1600
1500
1400
1300
1200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



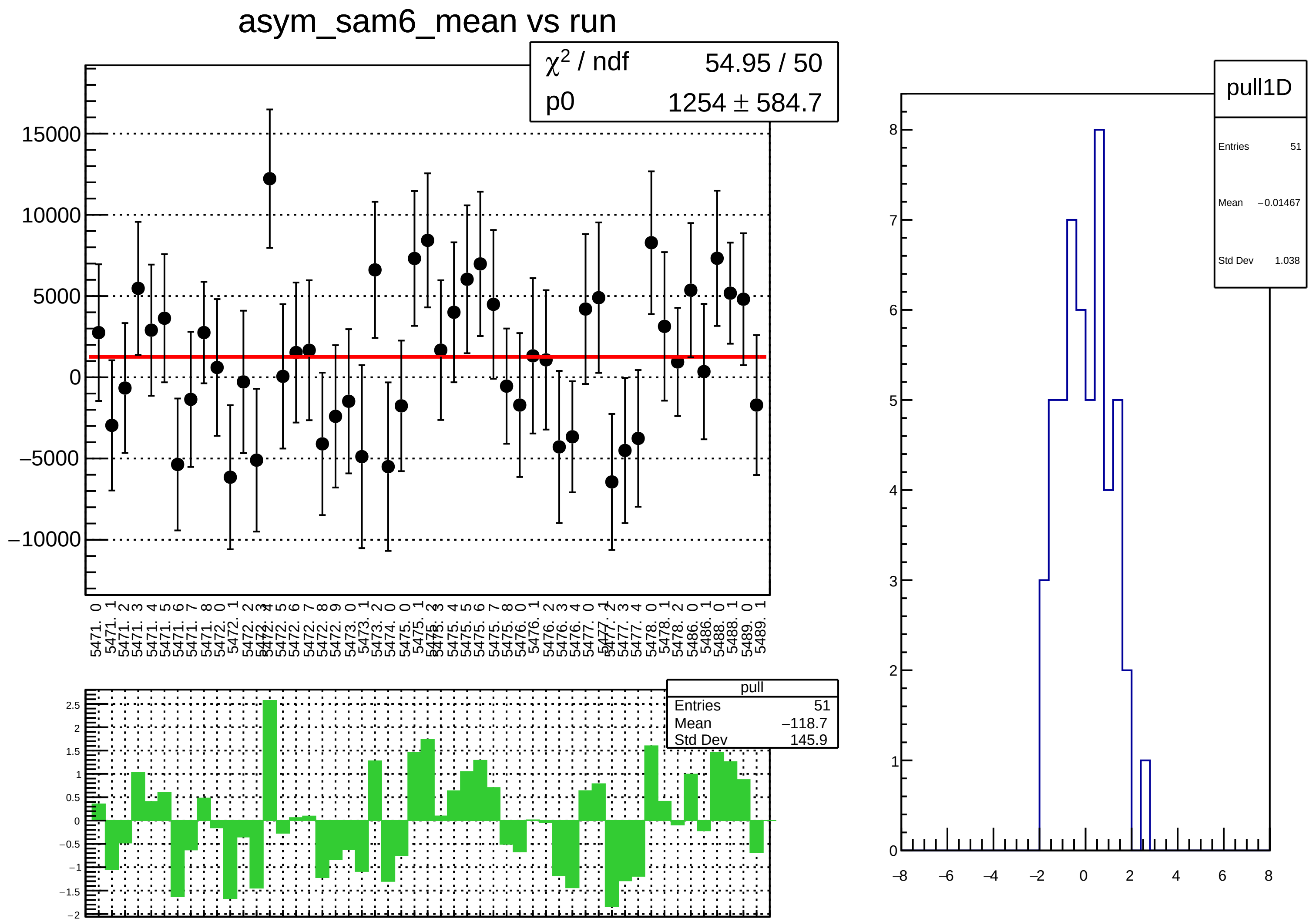
asym_sam4_mean vs run
χ2 / ndf 51.59 / 50
p0 4054 ± 2829
×10^3
pull
Entries 51
Mean 75.56
Std Dev 30.66
pull1D
Entries 51
Mean 0.01422
Std Dev 1.006


asym_sam4_rms vs run
χ² / ndf 3340 / 50
p0 1983 ± 2.001
2500
2400
2300
2200
2100
2000
1900
1800
1700

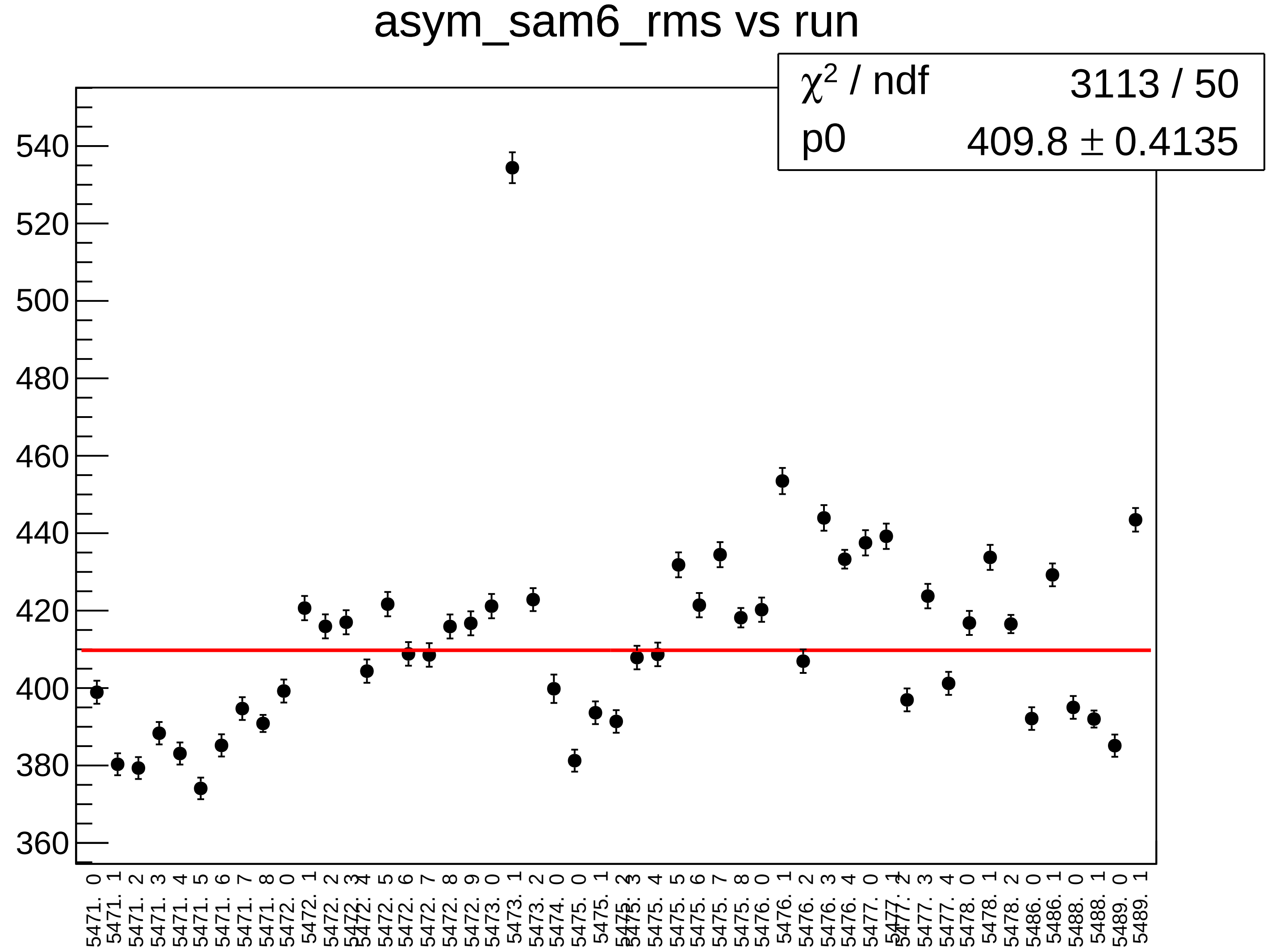

asym_sam5_mean vs run
χ^2 / ndf 48.6 / 50
p0 1752 ± 792.6
pull
Entries 51
Mean 144.2
Std Dev 111.3
pull1D
Entries 51
Mean 0.01009
Std Dev 0.9761



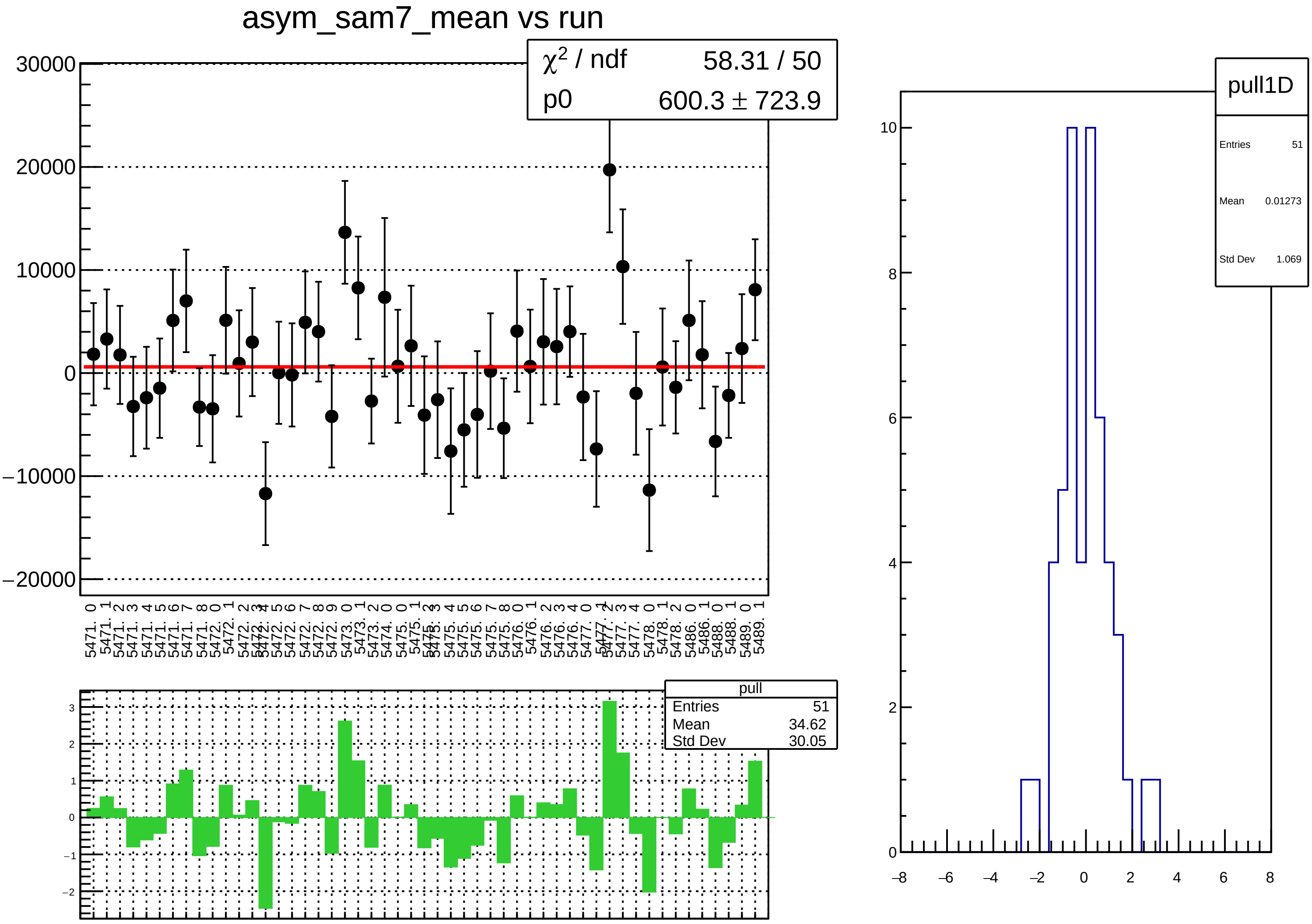
asym_sam5_rms vs run
χ^2 / ndf 1.383e+04 / 50
p0 552.4 ± 0.5605
800
750
700
650
600
550
500
450
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

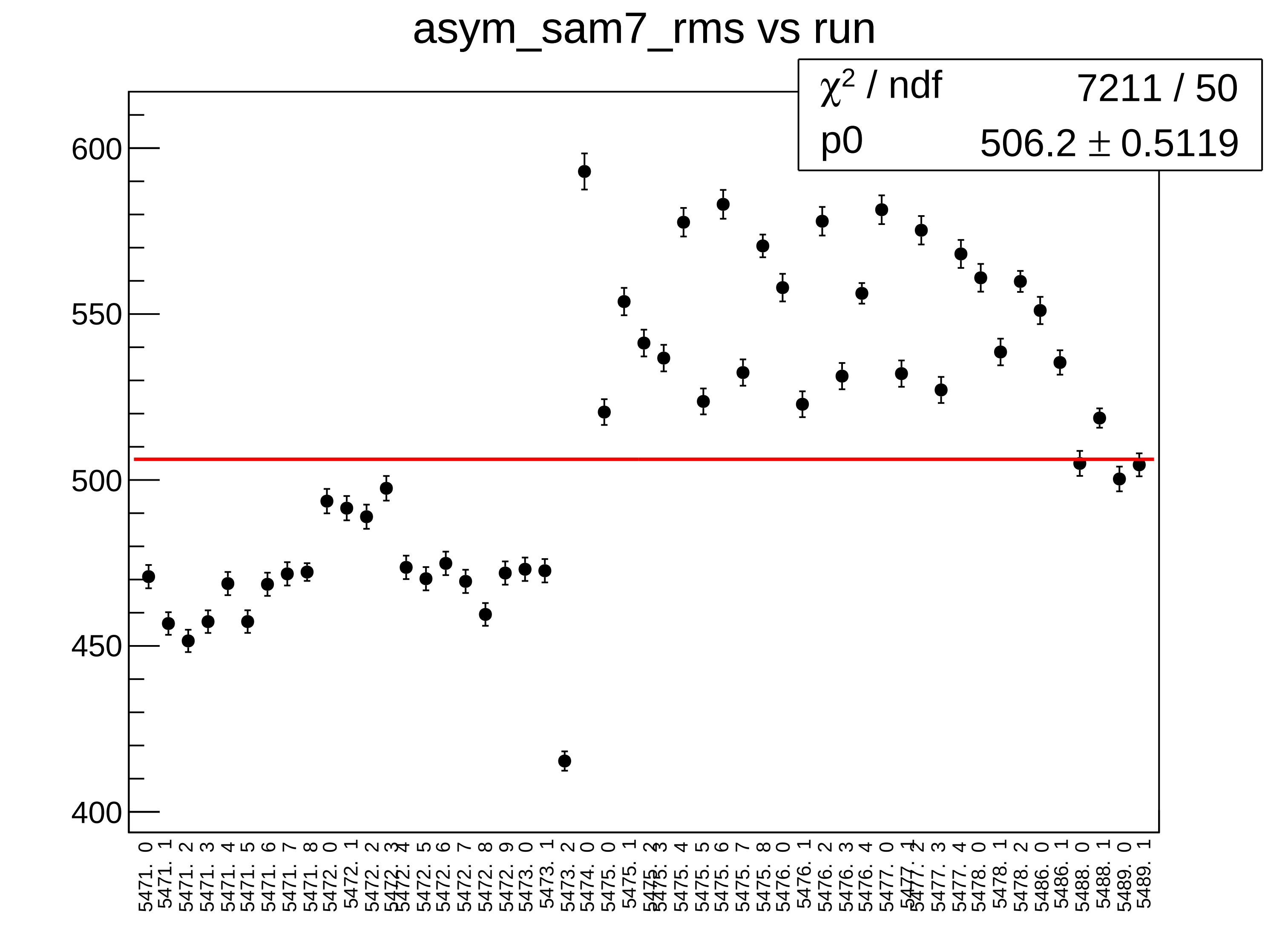


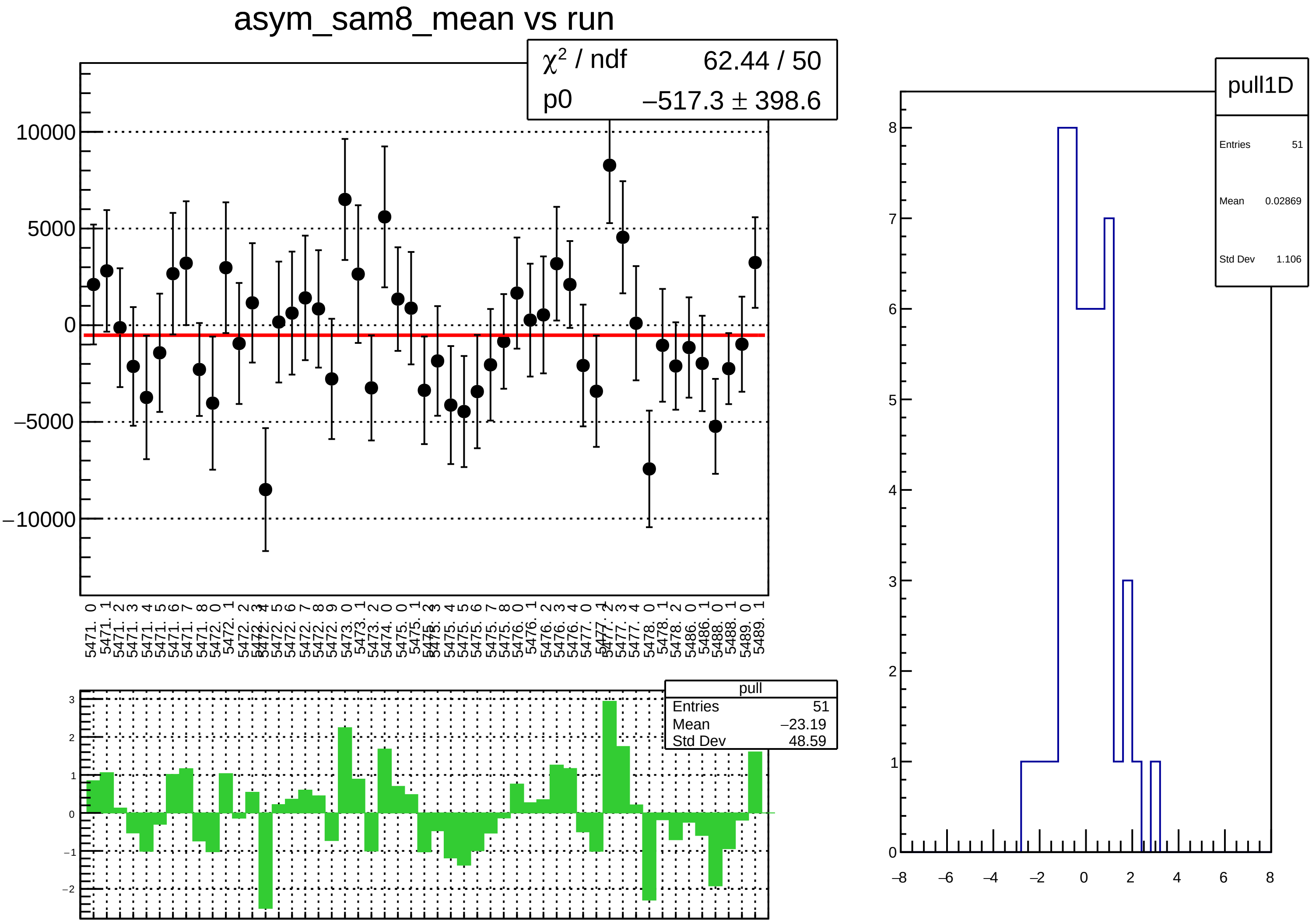
asym_sam6_mean vs run
χ^2 / ndf 54.95 / 50
p0 1254 ± 584.7
15000
10000
5000
0
−5000
−10000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean −118.7
Std Dev 145.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 51
Mean −0.01467
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8



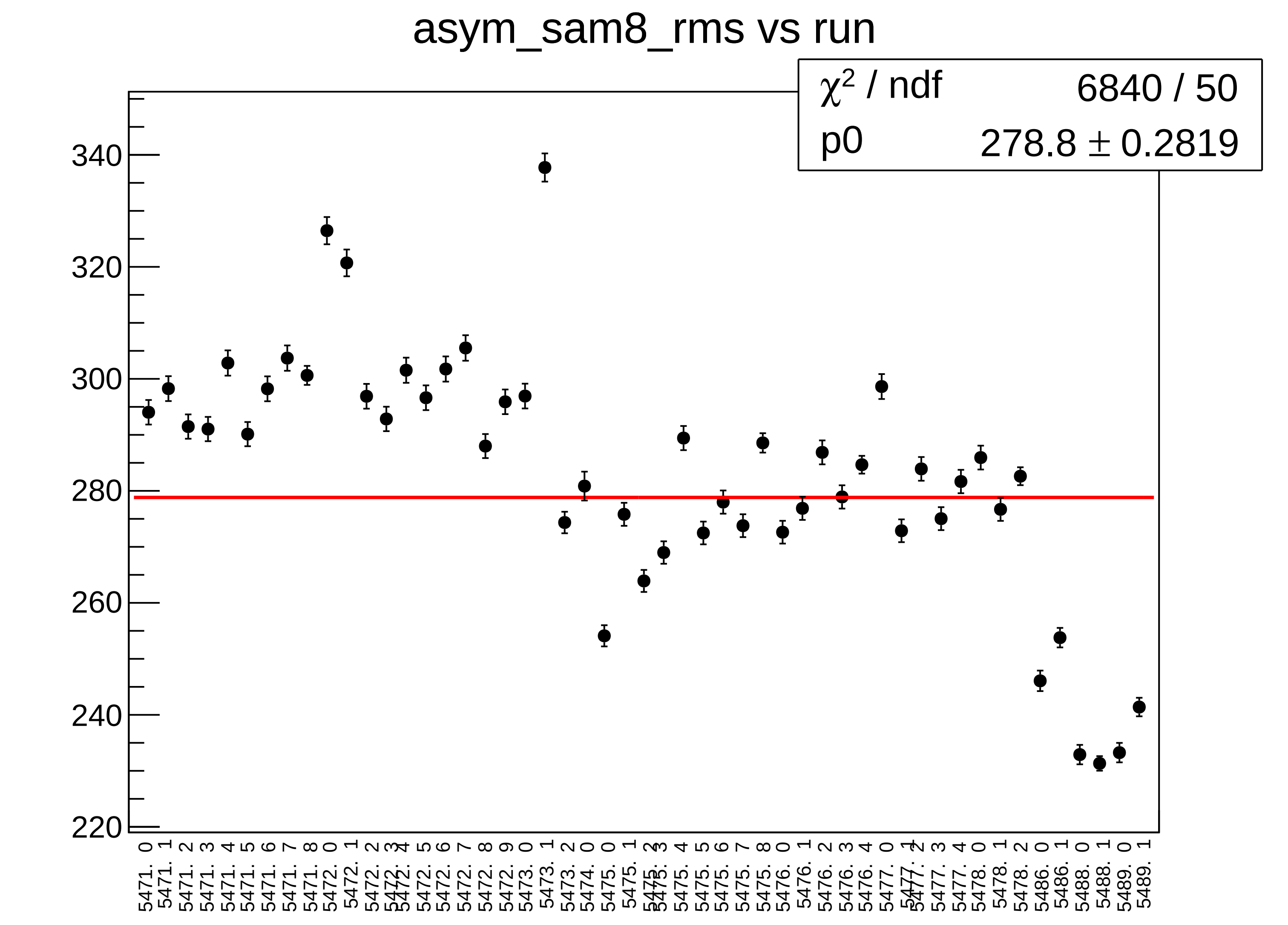
asym_sam6_rms vs run
χ^2 / ndf 3113 / 50
p0 409.8 ± 0.4135
540
520
500
480
460
440
420
400
380
360


asym_sam7_mean vs run
χ^2 / ndf 58.31 / 50
p0 600.3 ± 723.9
pull
Entries 51
Mean 34.62
Std Dev 30.05
pull1D
Entries 51
Mean 0.01273
Std Dev 1.069

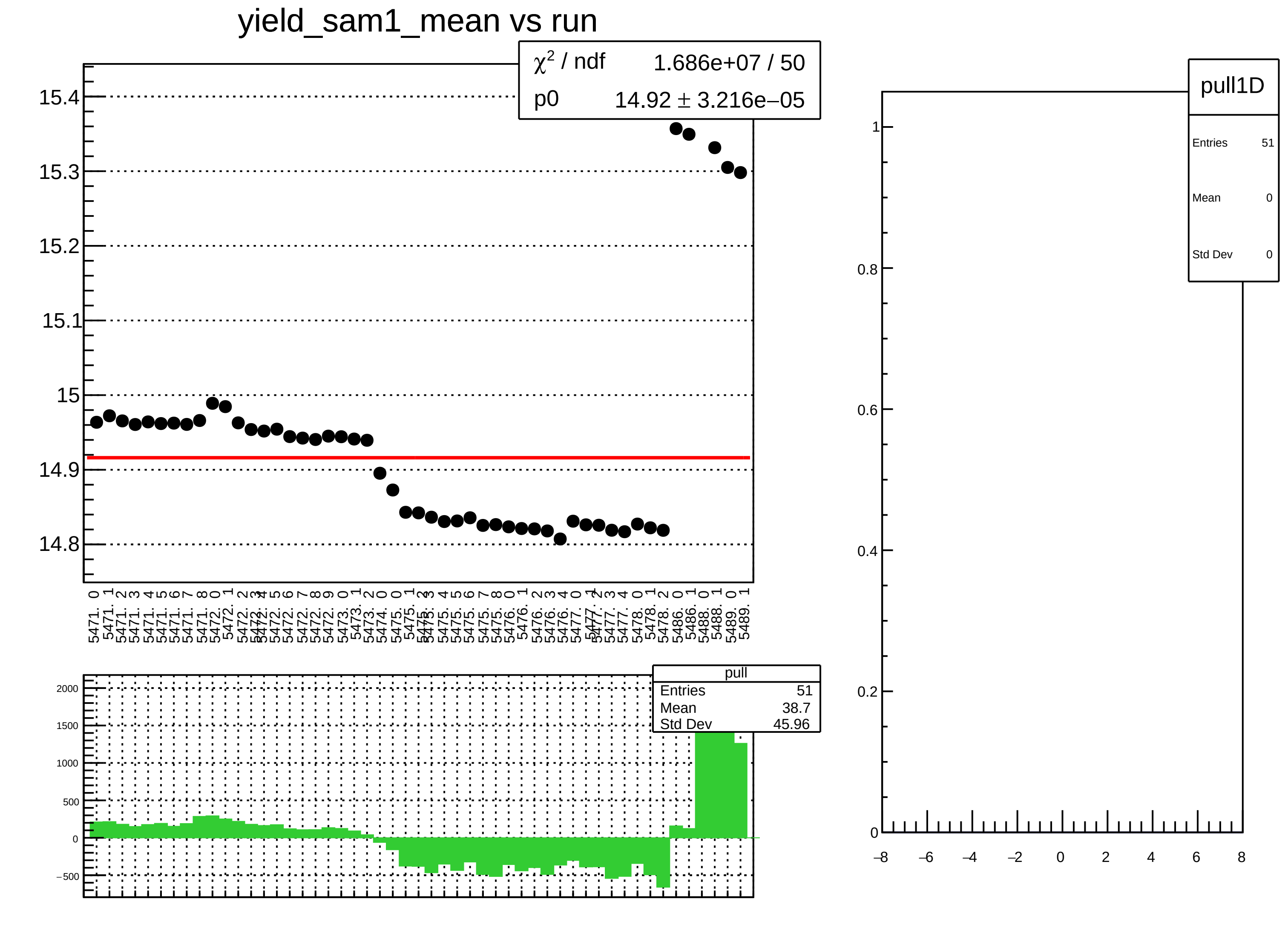

asym_sam7_rms vs run
χ2 / ndf 7211 / 50
p0 506.2 ± 0.5119
400
450
500
550
600



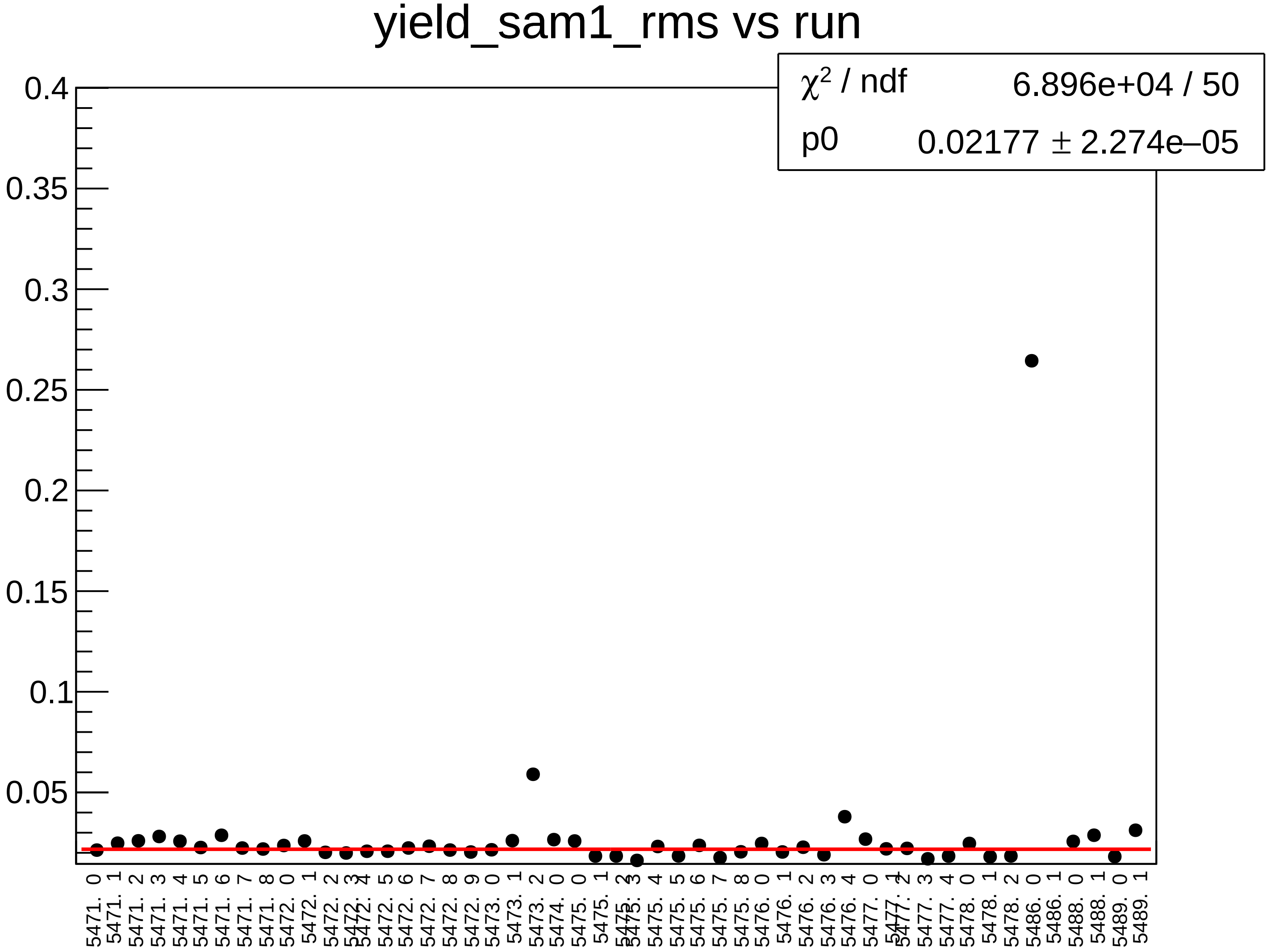
asym_sam8_mean vs run
χ^2 / ndf 62.44 / 50
p0 −517.3 ± 398.6
pull
Entries 51
Mean −23.19
Std Dev 48.59
pull1D
Entries 51
Mean 0.02869
Std Dev 1.106



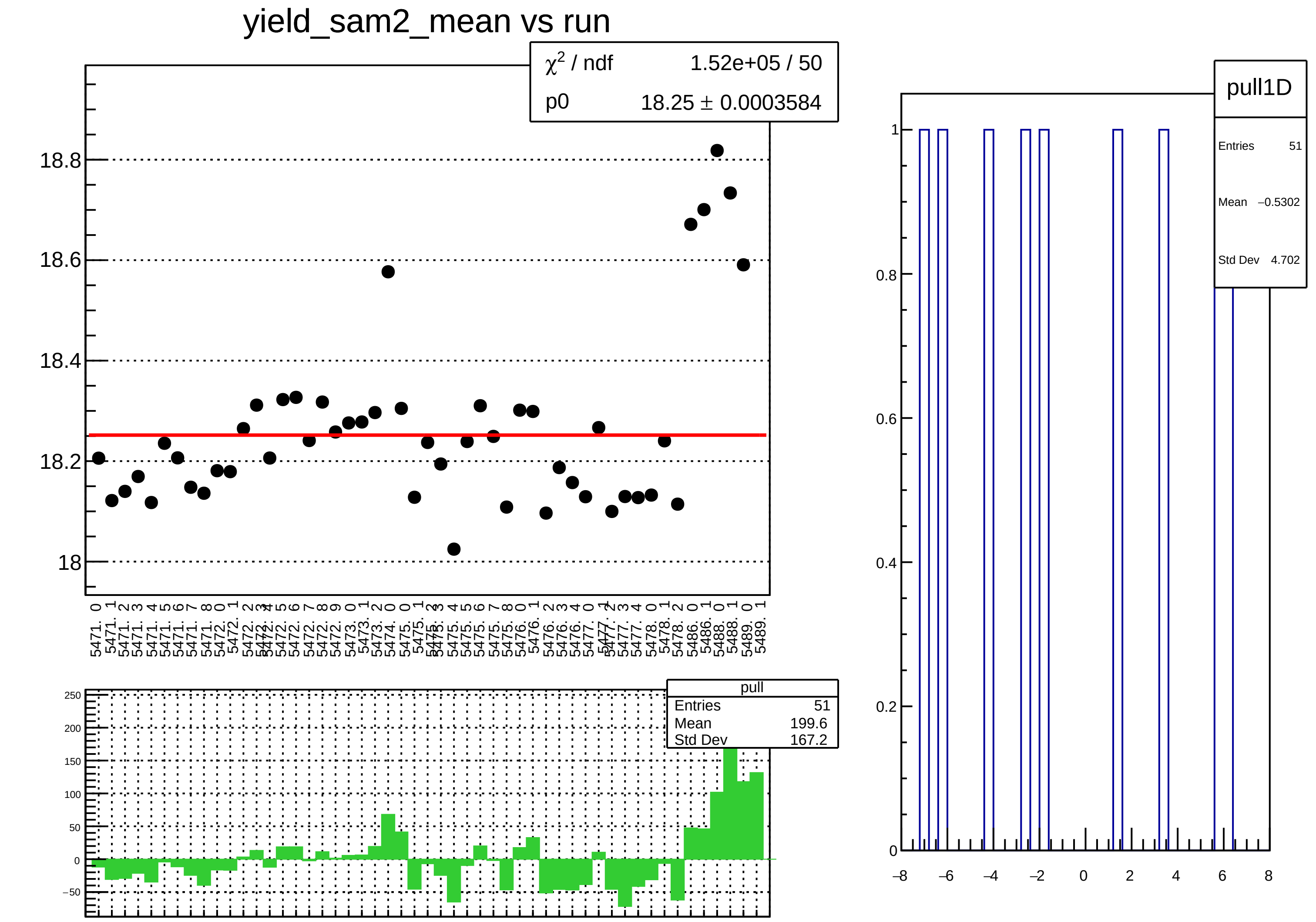
asym_sam8_rms vs run
χ2 / ndf 6840 / 50
p0 278.8 ± 0.2819
340
320
300
280
260
240
220
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



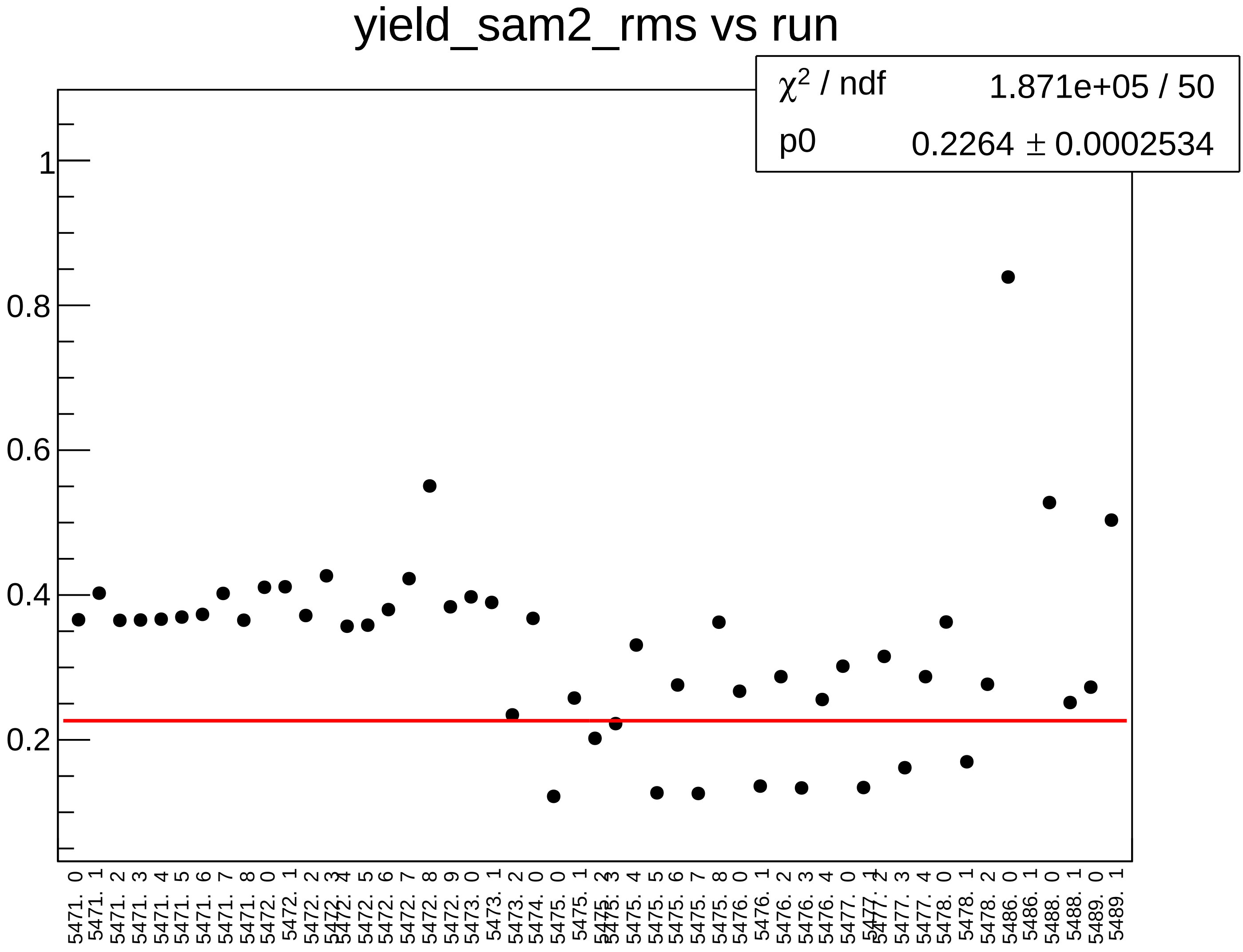
yield_sam1_mean vs run
χ^2 / ndf 1.686e+07 / 50
p0 14.92 ± 3.216e−05
pull
Entries 51
Mean 38.7
Std Dev 45.96
pull1D
Entries 51
Mean 0
Std Dev 0



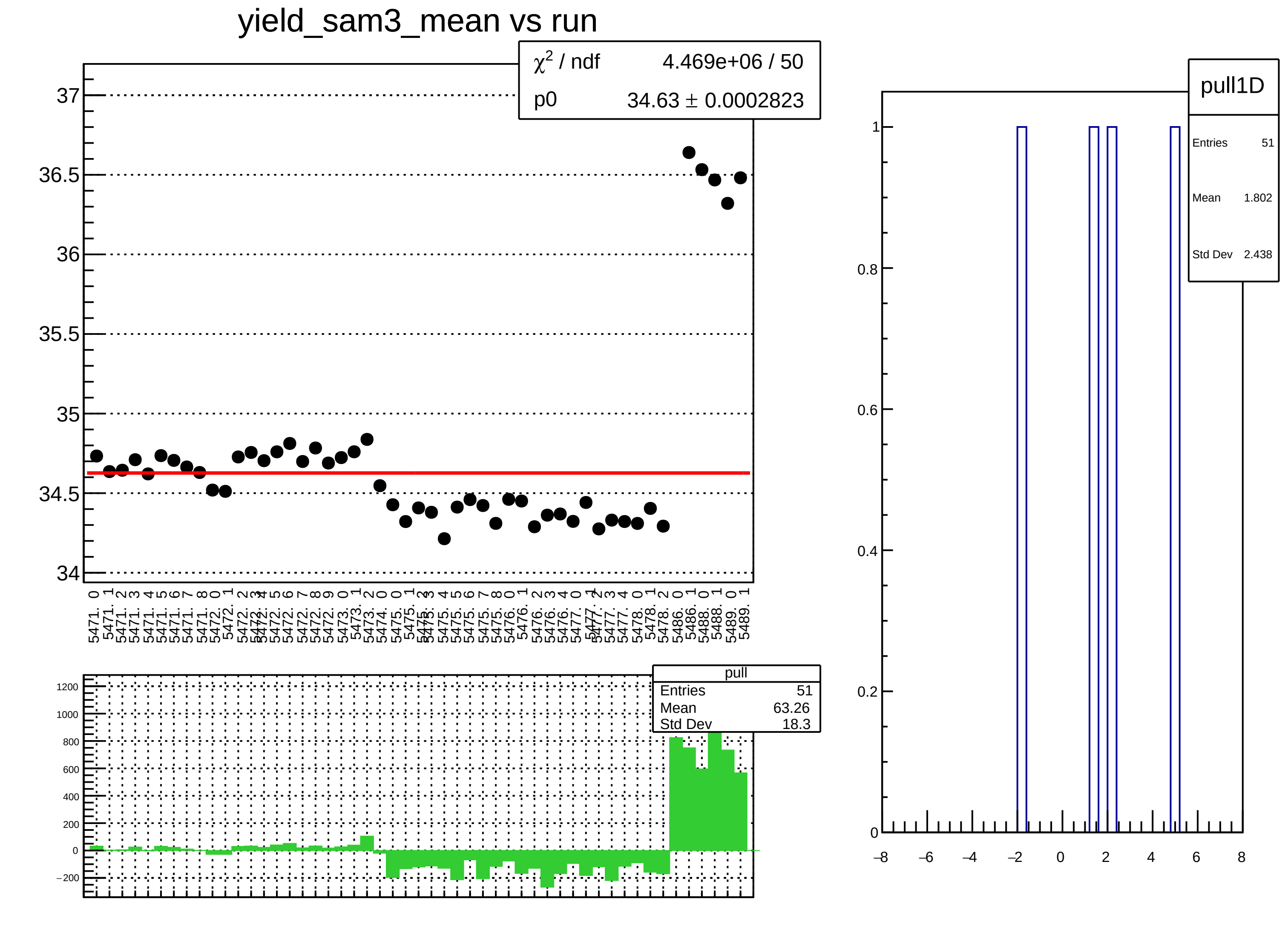
yield_sam1_rms vs run
χ^2 / ndf 6.896e+04 / 50
p0 0.02177 ± 2.274e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05



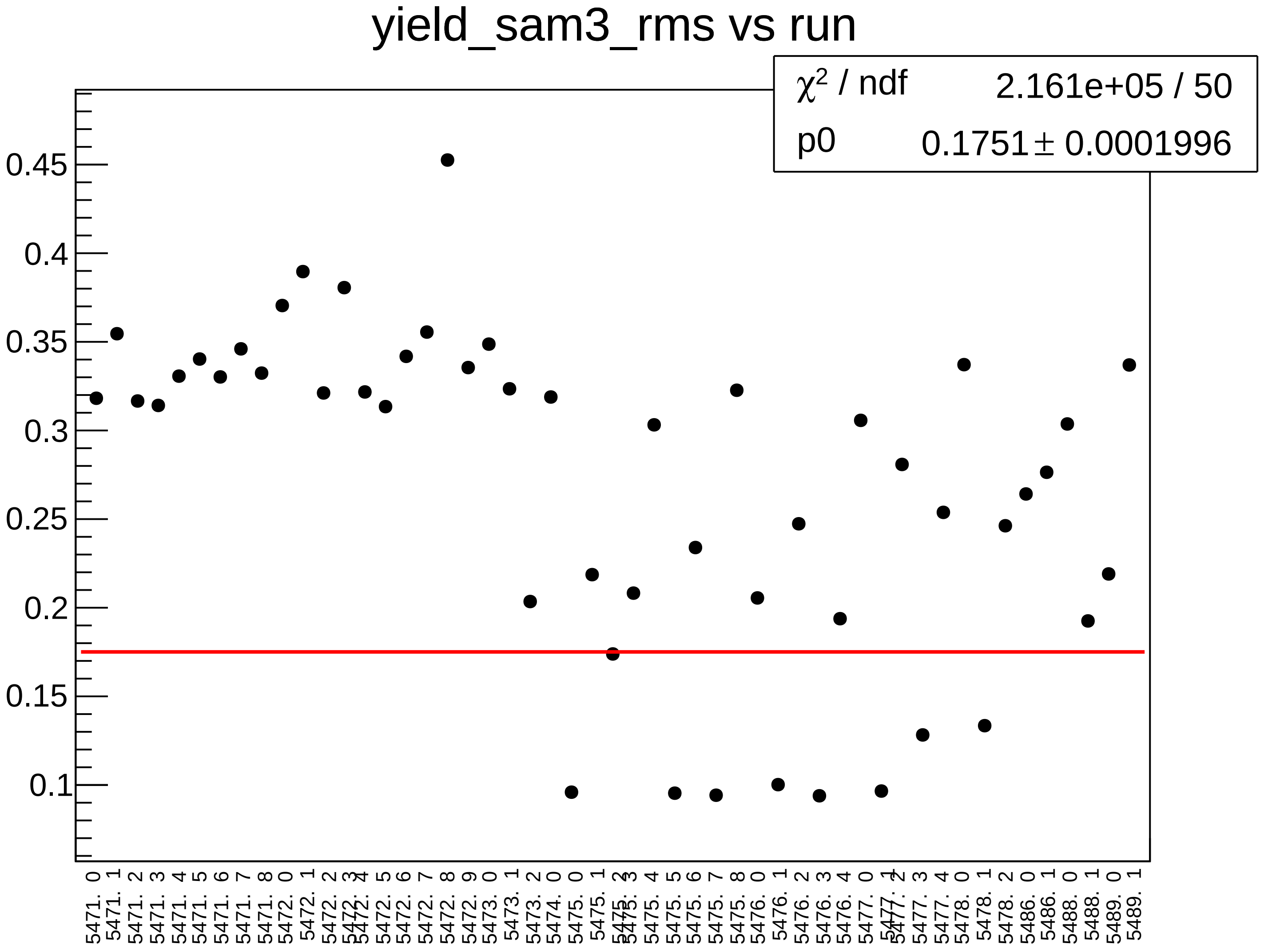
yield_sam2_mean vs run
χ2 / ndf 1.52e+05 / 50
p0 18.25 ± 0.0003584
pull
Entries 51
Mean 199.6
Std Dev 167.2
pull1D
Entries 51
Mean −0.5302
Std Dev 4.702



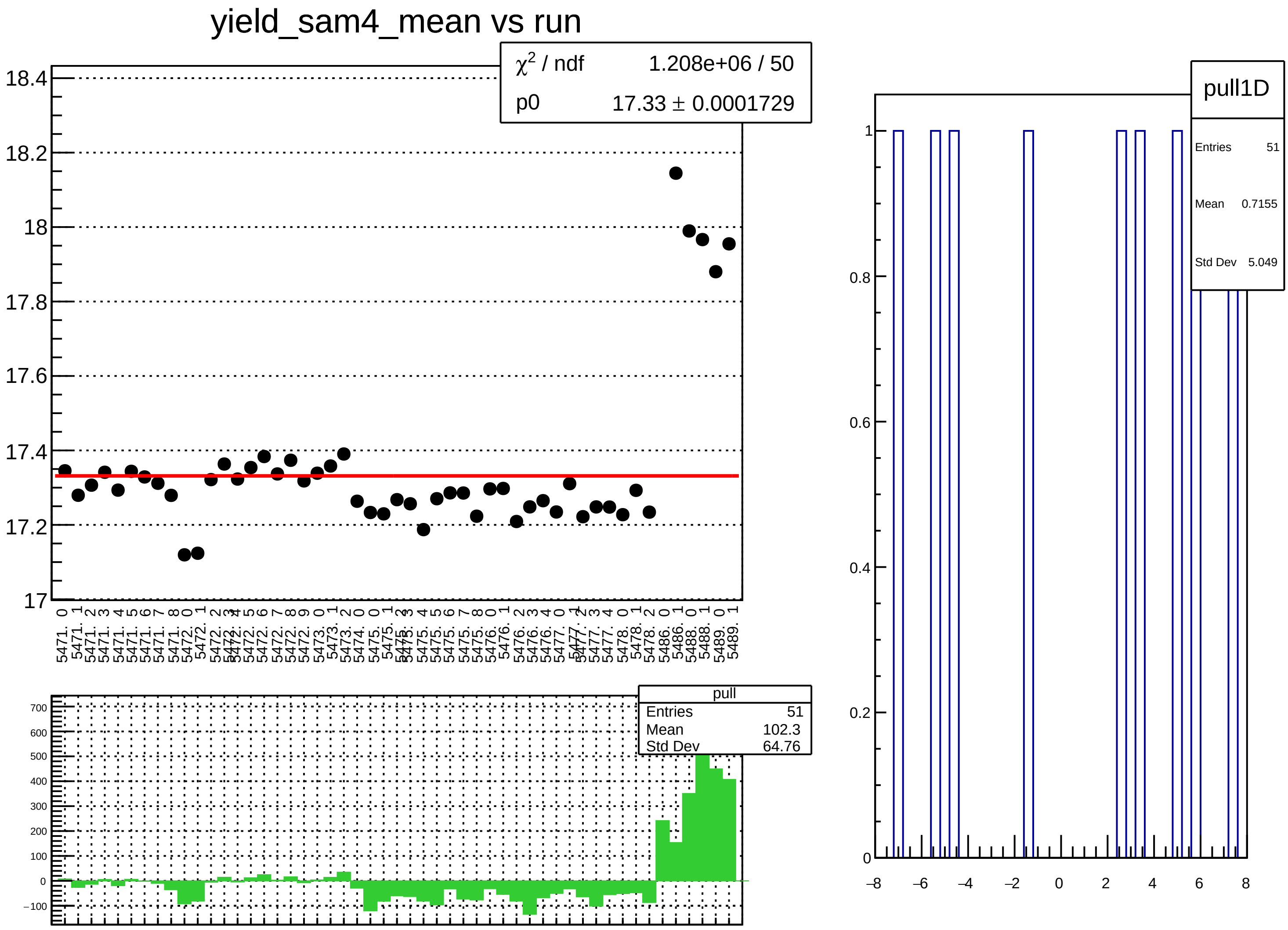
yield_sam2_rms vs run
χ^2 / ndf 1.871e+05 / 50
p0 0.2264 ± 0.0002534
1
0.8
0.6
0.4
0.2



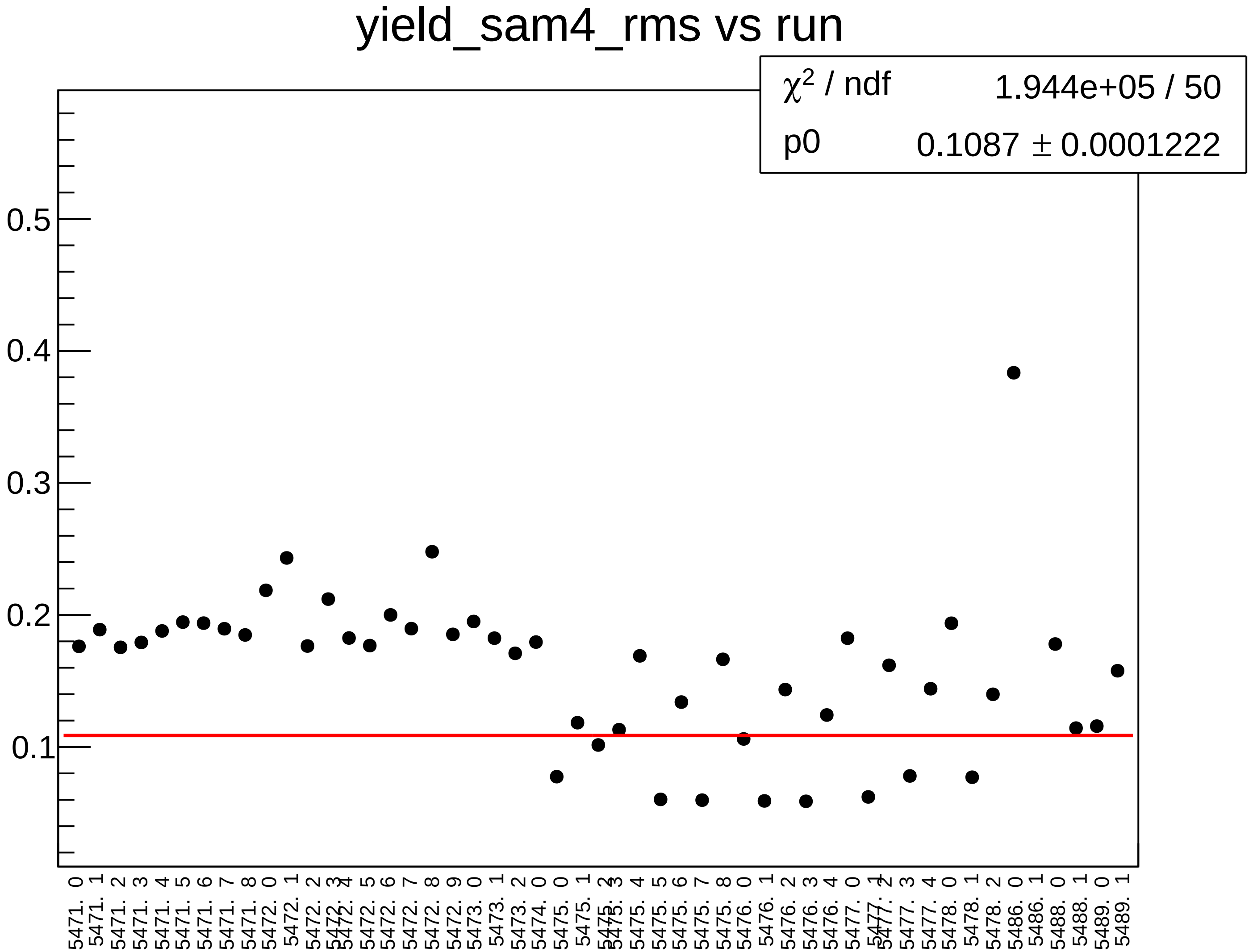
yield_sam3_mean vs run
χ^2 / ndf 4.469e+06 / 50
p0 34.63 ± 0.0002823
pull
Entries 51
Mean 63.26
Std Dev 18.3
pull1D
Entries 51
Mean 1.802
Std Dev 2.438



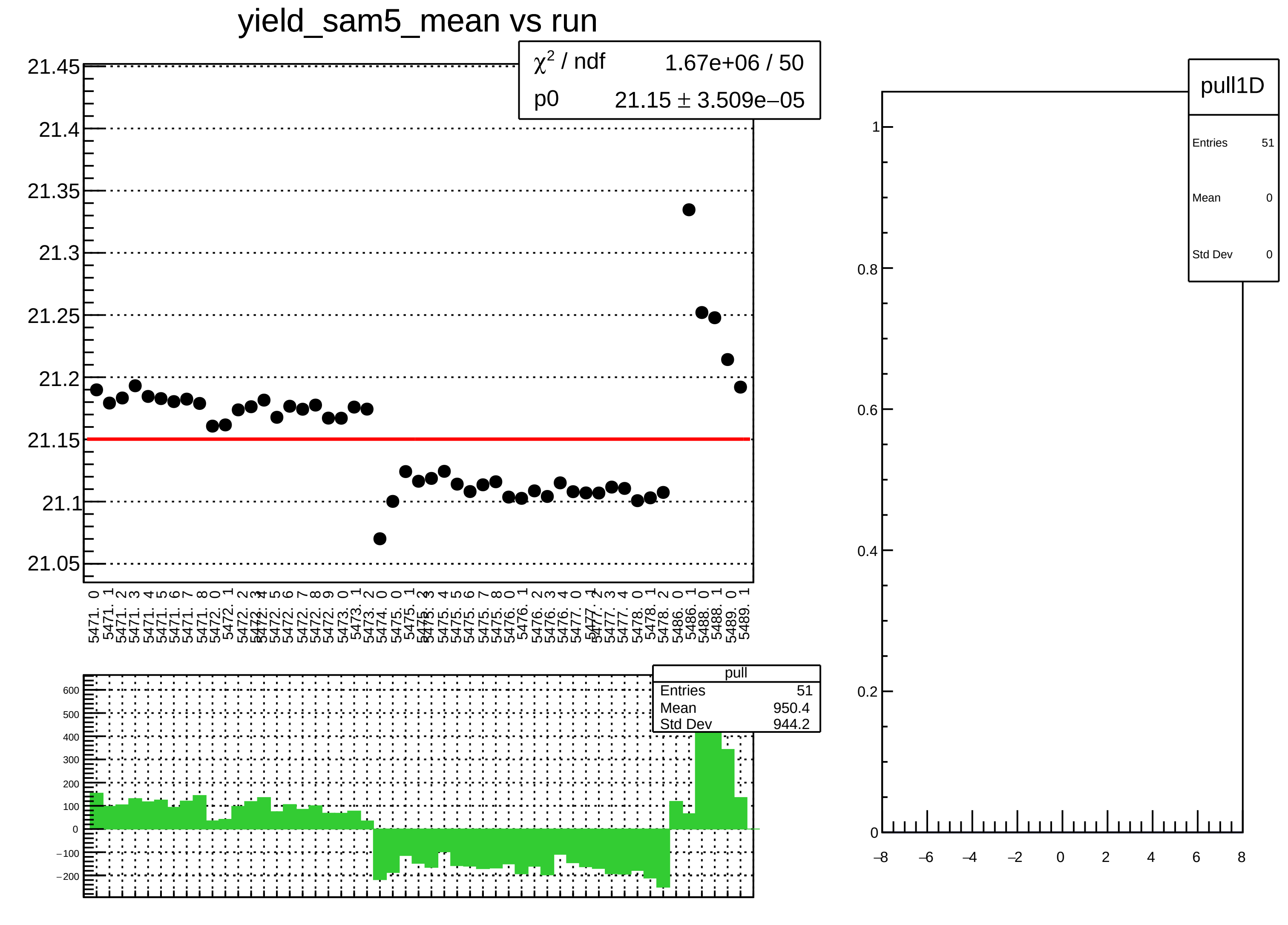
yield_sam3_rms vs run
χ² / ndf 2.161e+05 / 50
p0 0.1751 ± 0.0001996



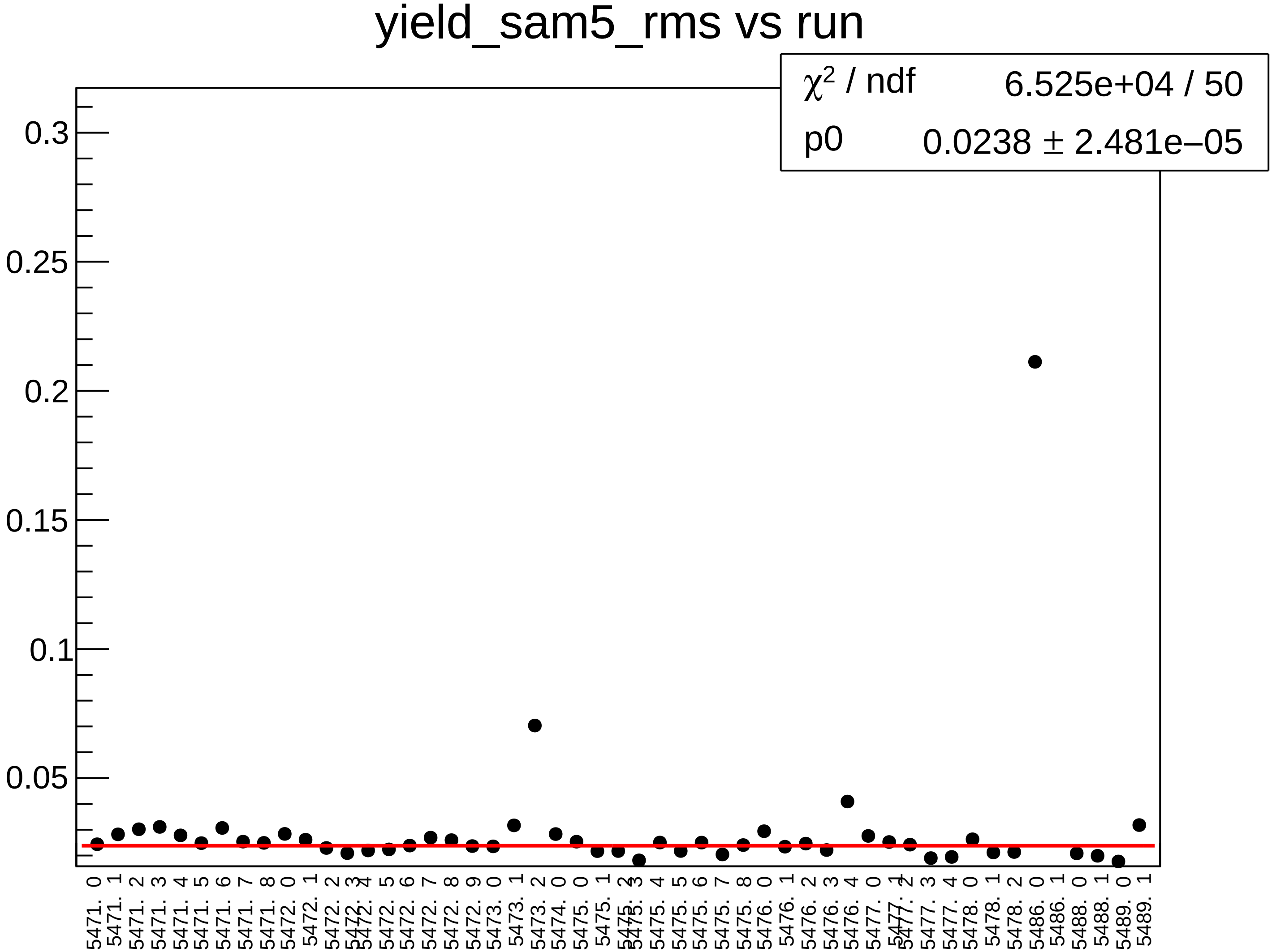
yield_sam4_mean vs run
χ² / ndf 1.208e+06 / 50
p0 17.33 ± 0.0001729
pull
Entries 51
Mean 102.3
Std Dev 64.76
pull1D
Entries 51
Mean 0.7155
Std Dev 5.049



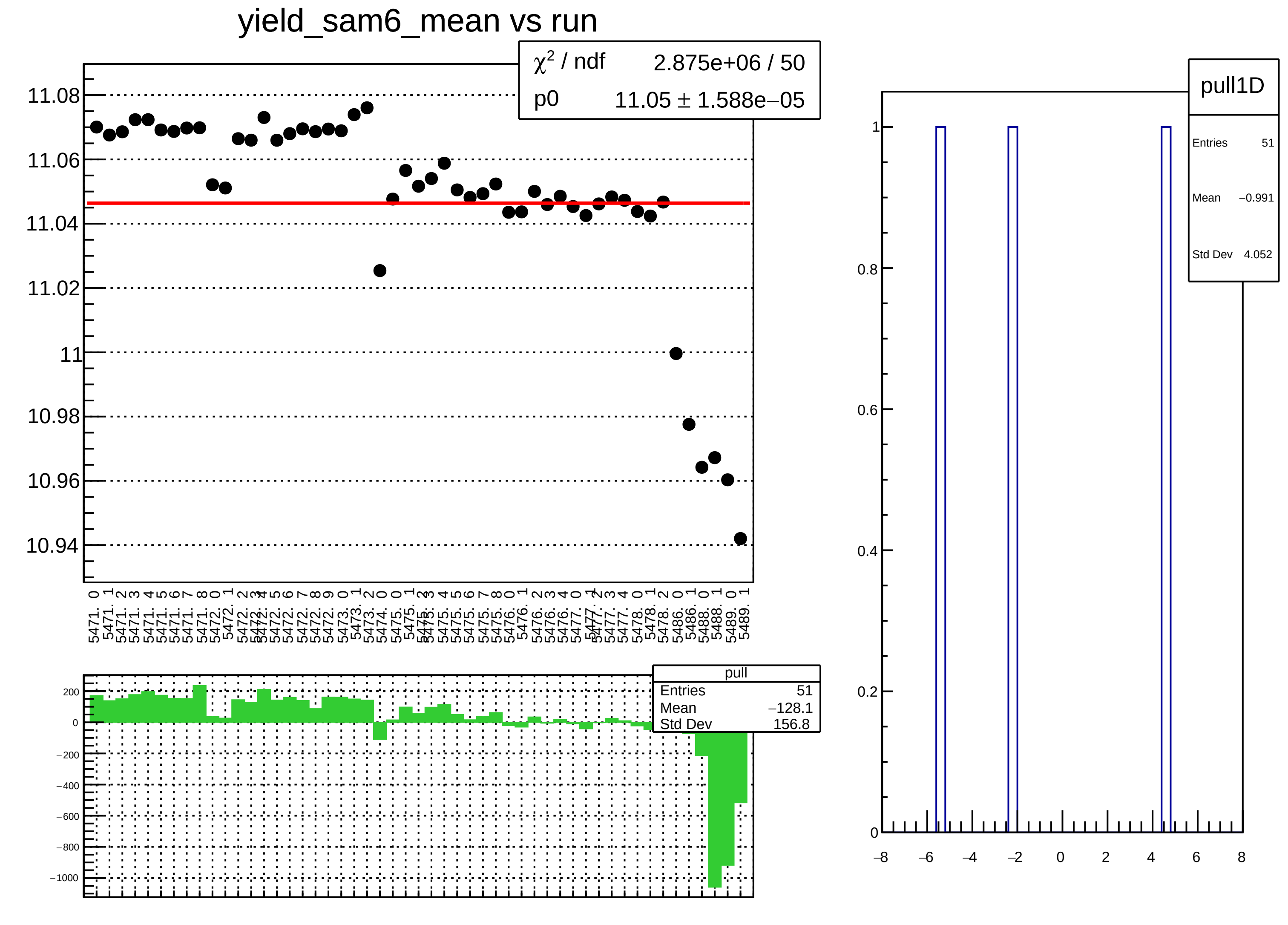
yield_sam4_rms vs run
χ^2 / ndf 1.944e+05 / 50
p0 0.1087 ± 0.0001222
0.5
0.4
0.3
0.2
0.1



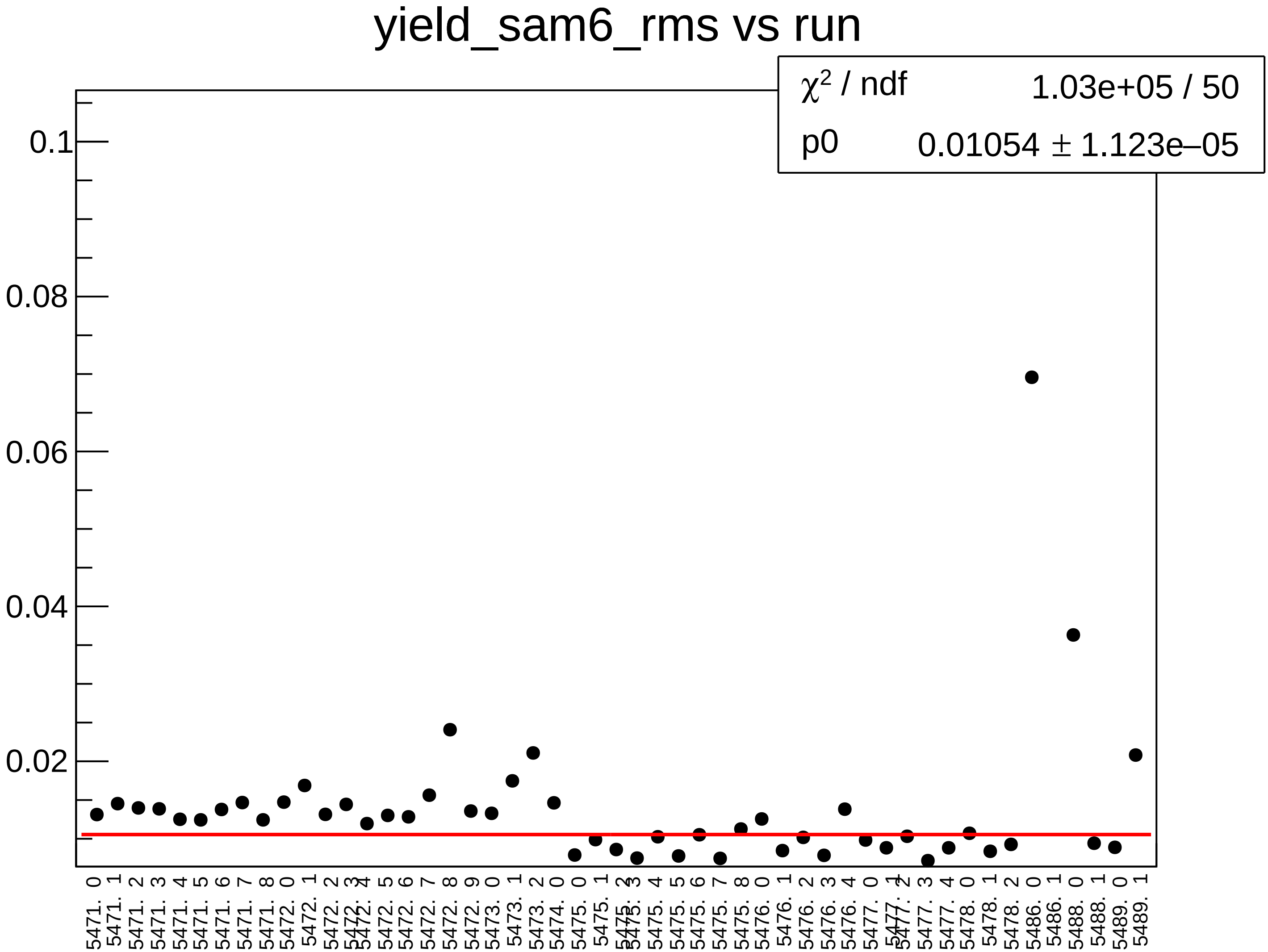
yield_sam5_mean vs run
χ^2 / ndf 1.67e+06 / 50
p0 21.15 ± 3.509e−05
21.45
21.4
21.35
21.3
21.25
21.2
21.15
21.1
21.05
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1
pull
Entries 51
Mean 950.4
Std Dev 944.2
600
500
400
300
200
100
0
−100
−200
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



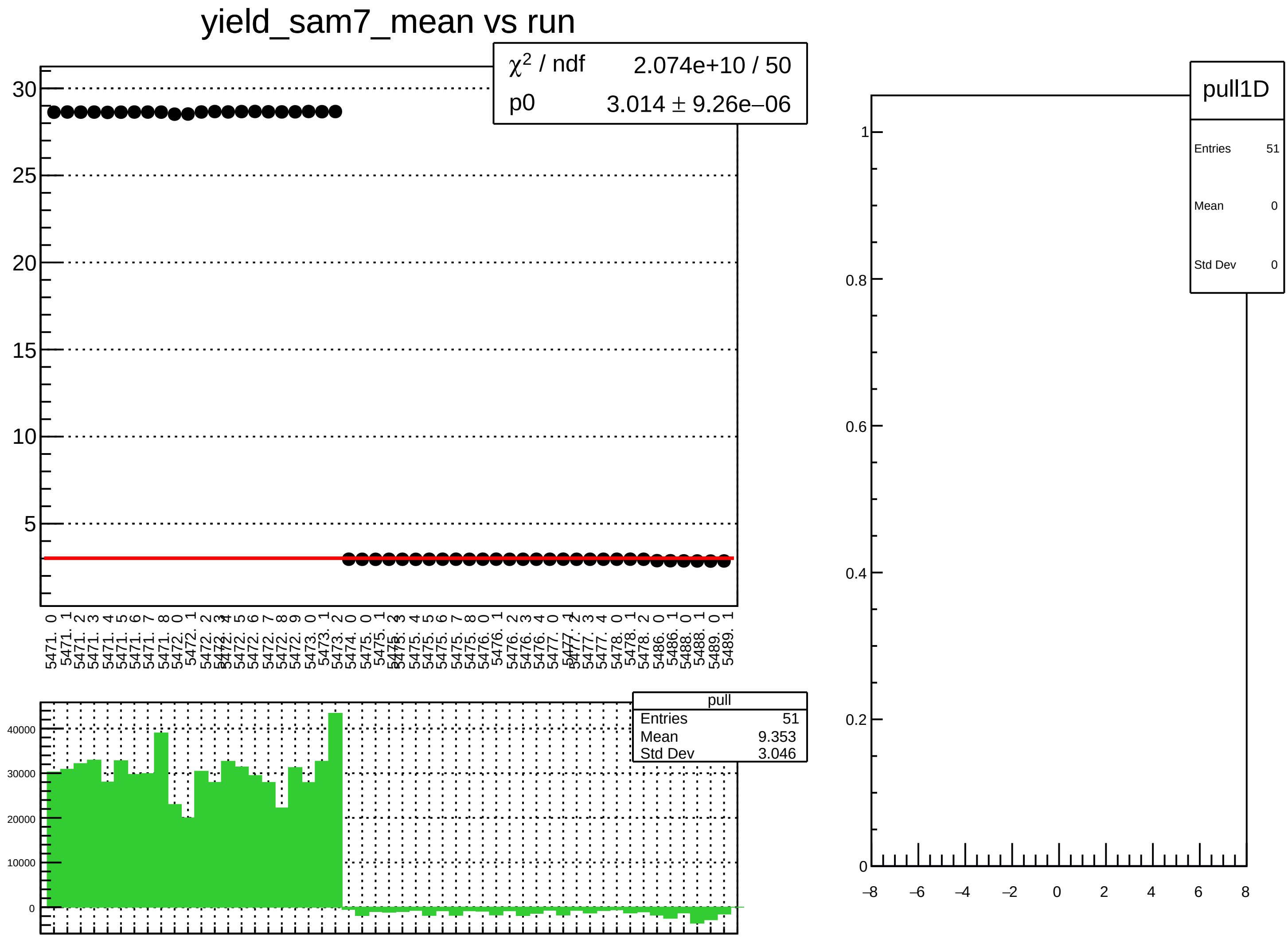
yield_sam5_rms vs run
χ^2 / ndf 6.525e+04 / 50
p0 0.0238 ± 2.481e−05
0.3
0.25
0.2
0.15
0.1
0.05



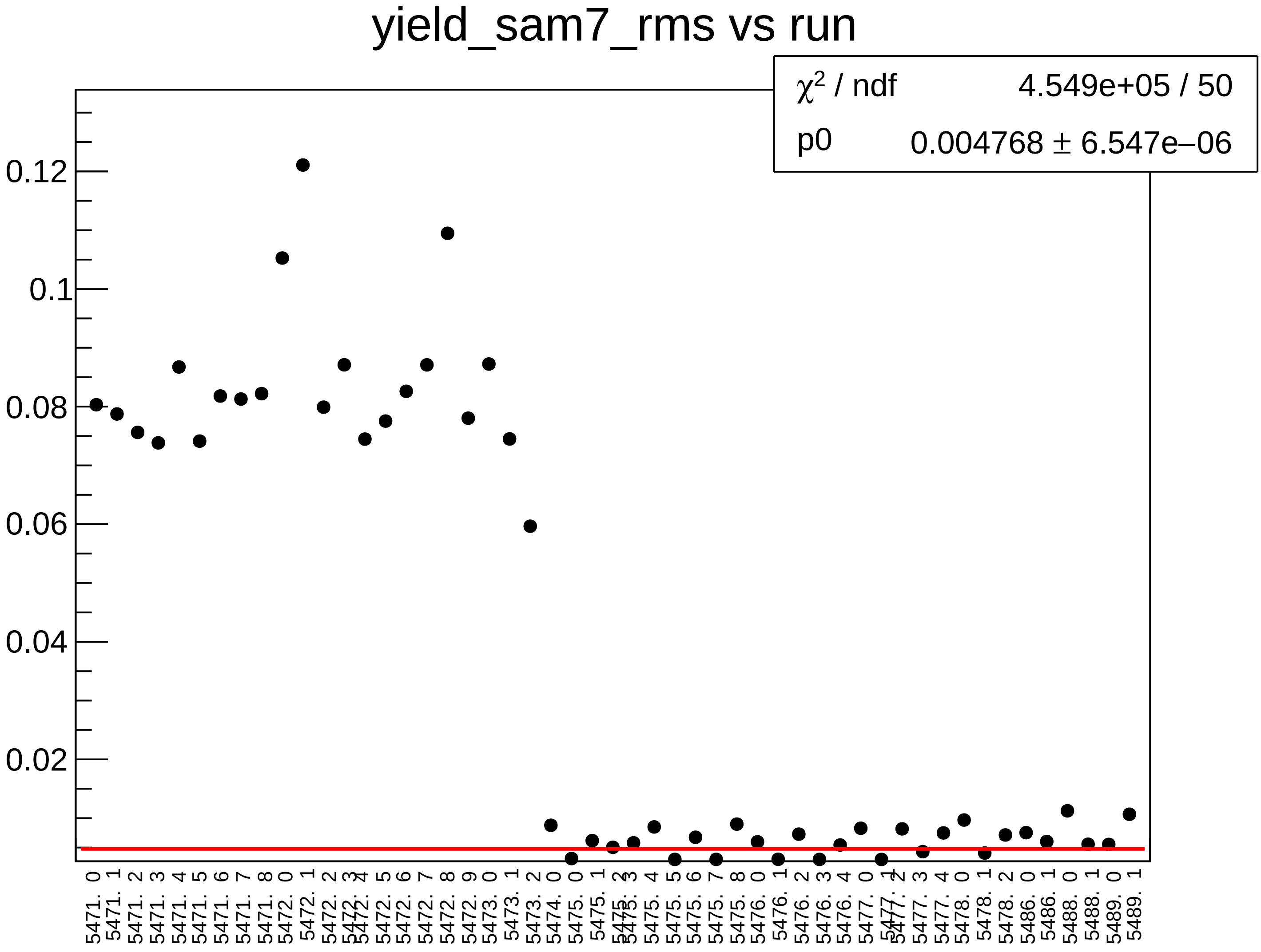
yield_sam6_mean vs run
χ² / ndf 2.875e+06 / 50
p0 11.05 ± 1.588e−05
pull
Entries 51
Mean −128.1
Std Dev 156.8
pull1D
Entries 51
Mean −0.991
Std Dev 4.052



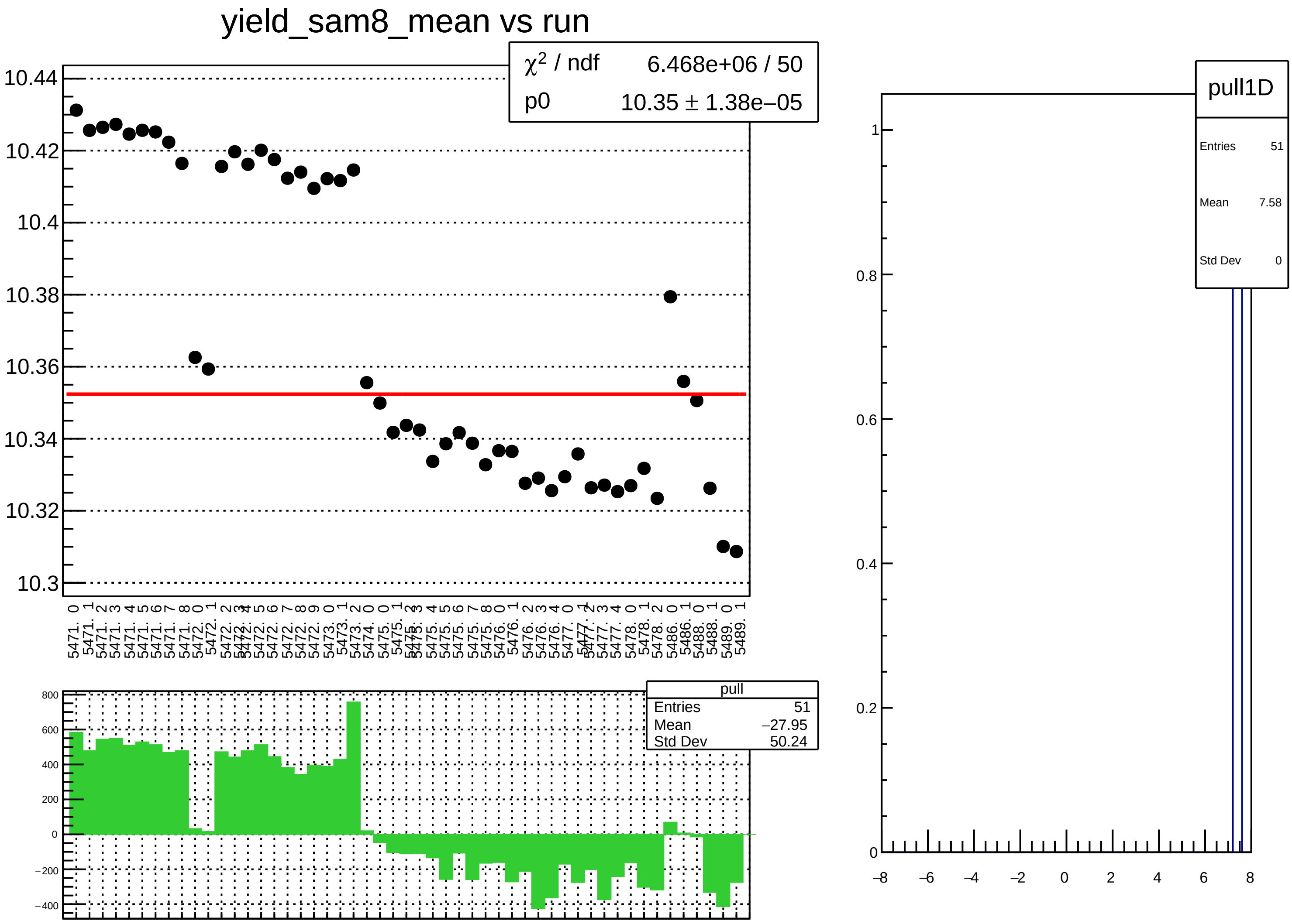
yield_sam6_rms vs run
χ^2 / ndf 1.03e+05 / 50
p0 0.01054 ± 1.123e−05
0.1
0.08
0.06
0.04
0.02



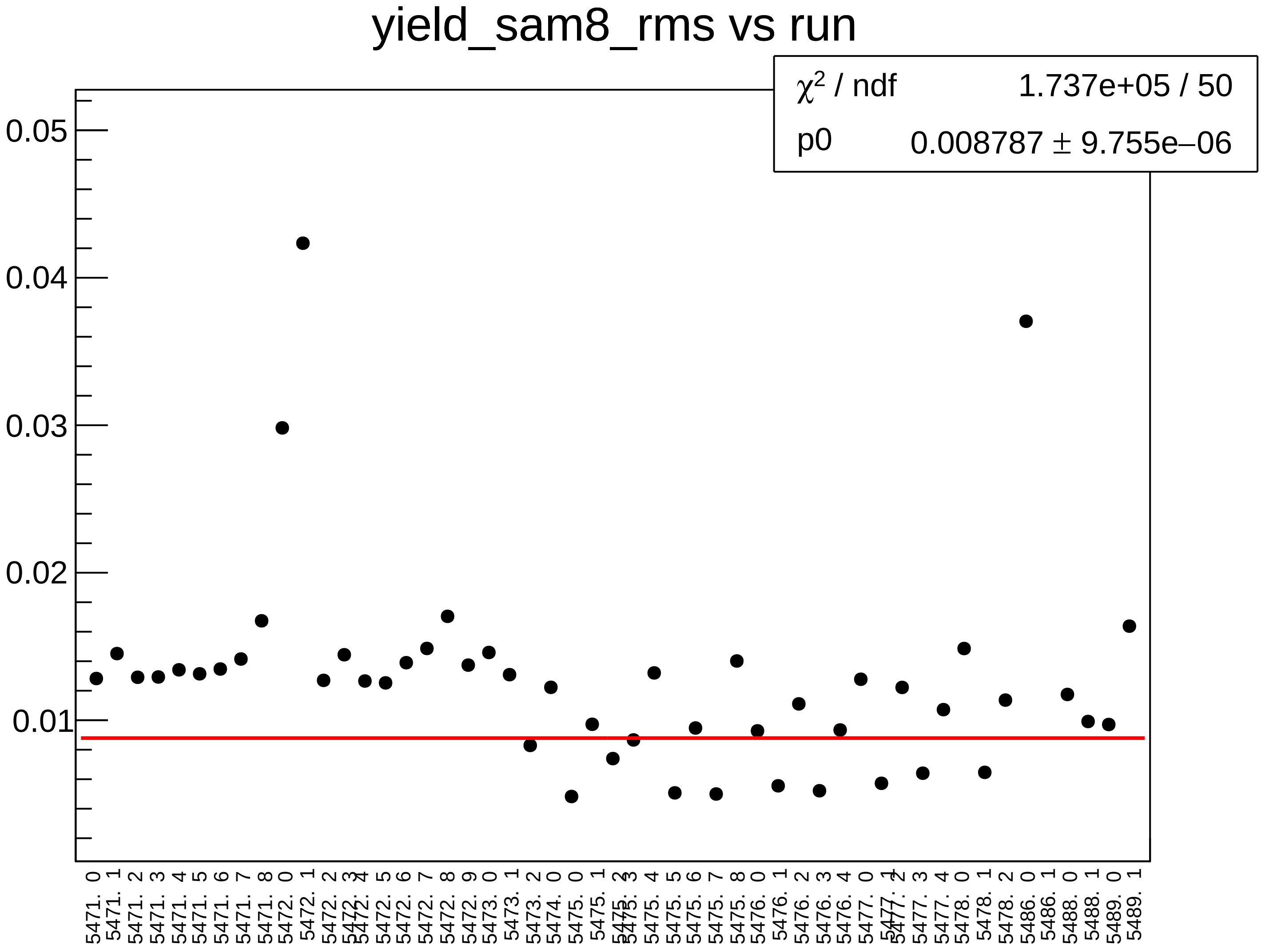
yield_sam7_mean vs run
χ2 / ndf 2.074e+10 / 50
p0 3.014 ± 9.26e−06
pull
Entries 51
Mean 9.353
Std Dev 3.046
pull1D
Entries 51
Mean 0
Std Dev 0



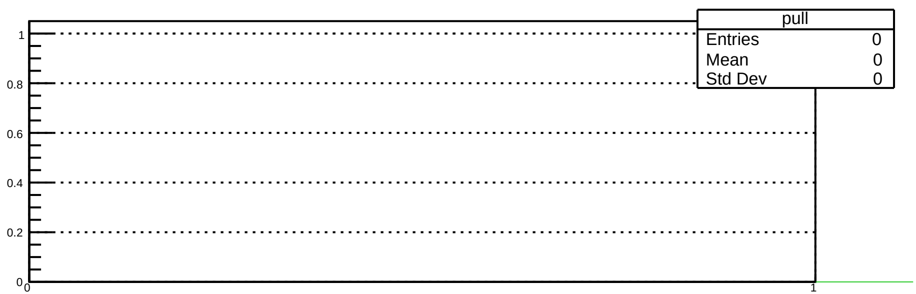
yield_sam7_rms vs run
χ2 / ndf 4.549e+05 / 50
p0 0.004768 ± 6.547e−06
0.12
0.1
0.08
0.06
0.04
0.02

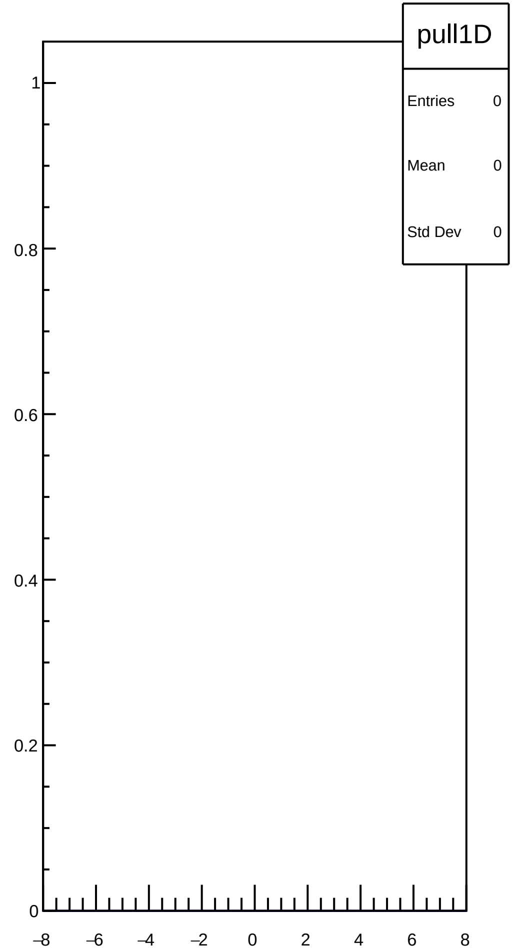


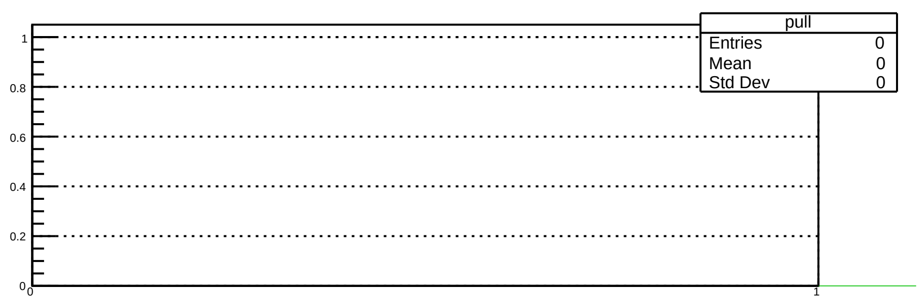
yield_sam8_mean vs run
χ2 / ndf 6.468e+06 / 50
p0 10.35 ± 1.38e−05
pull
Entries 51
Mean −27.95
Std Dev 50.24
pull1D
Entries 51
Mean 7.58
Std Dev 0

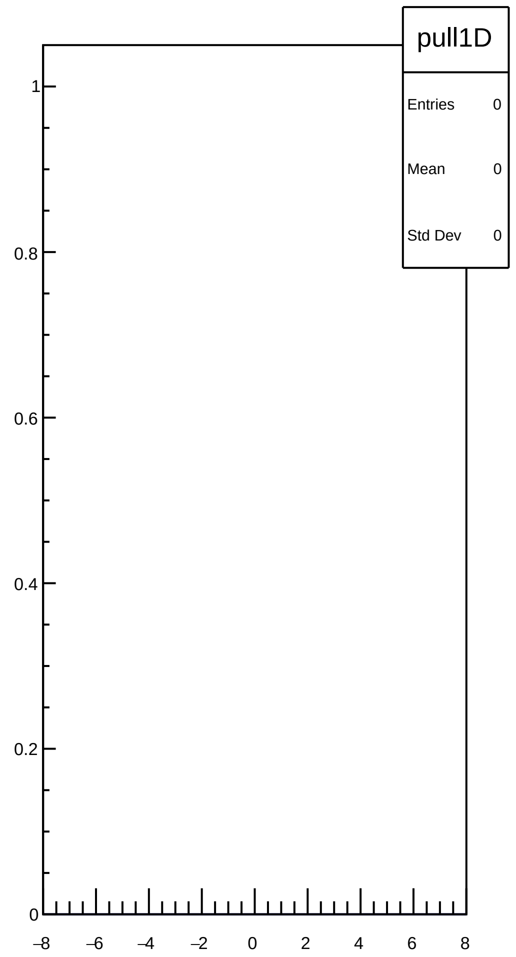


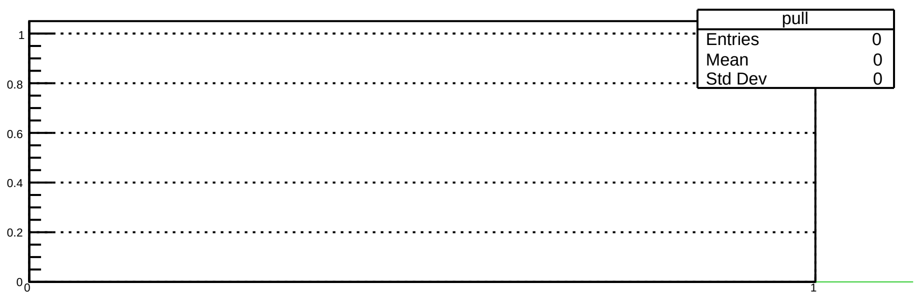
yield_sam8_rms vs run
χ² / ndf 1.737e+05 / 50
p0 0.008787 ± 9.755e−06
0.05
0.04
0.03
0.02
0.01

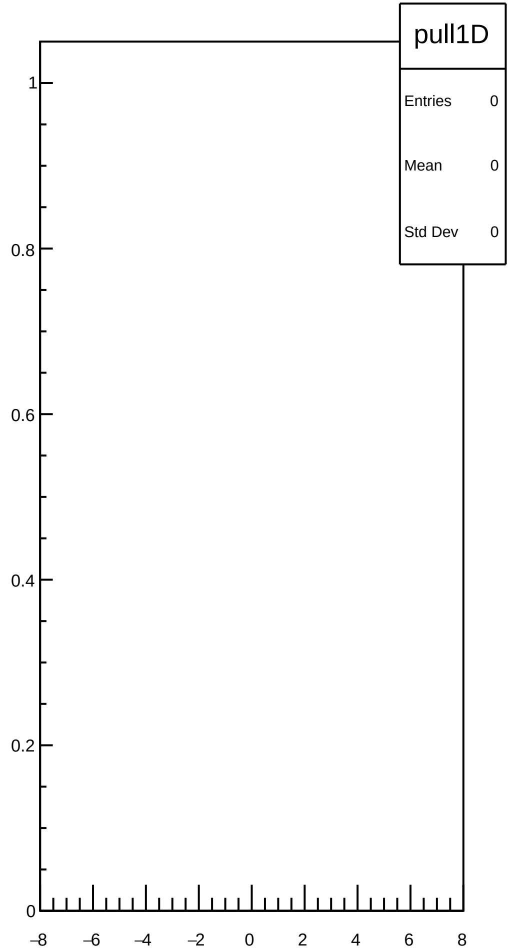

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

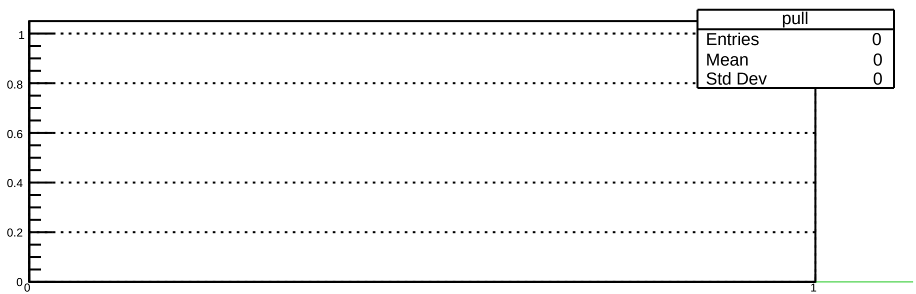

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

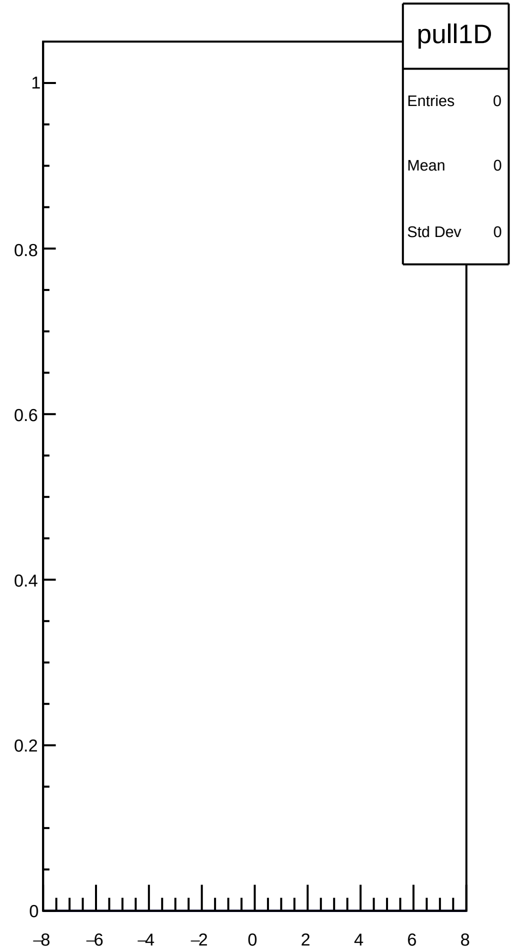

pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

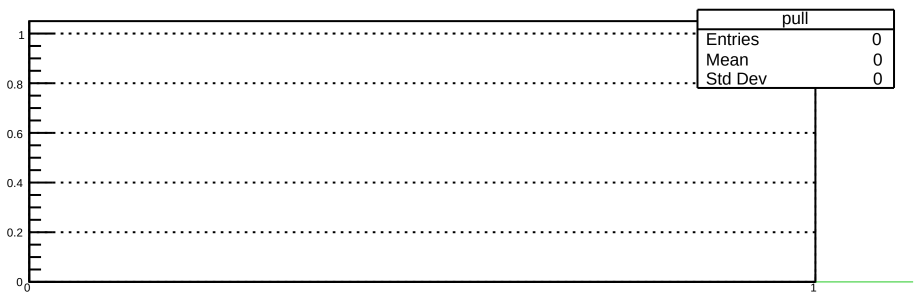

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

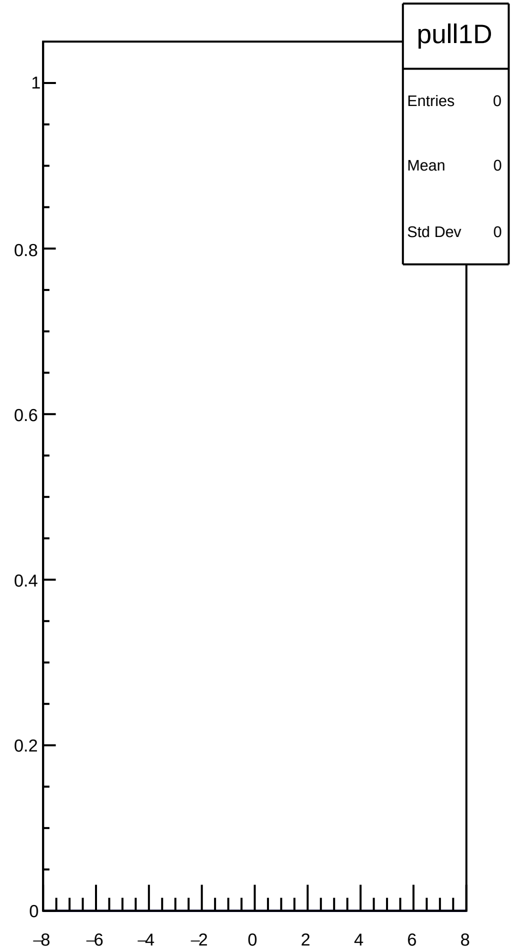

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

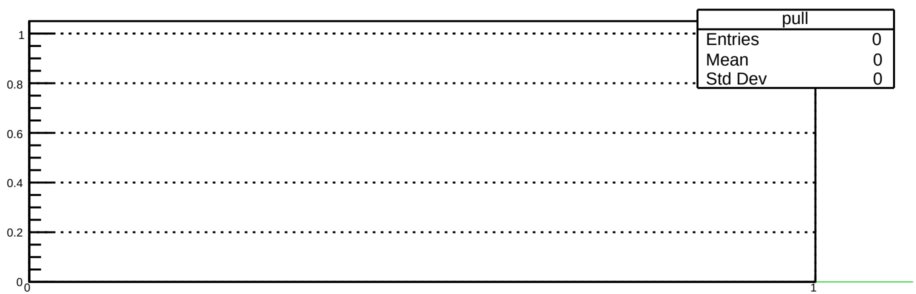

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8



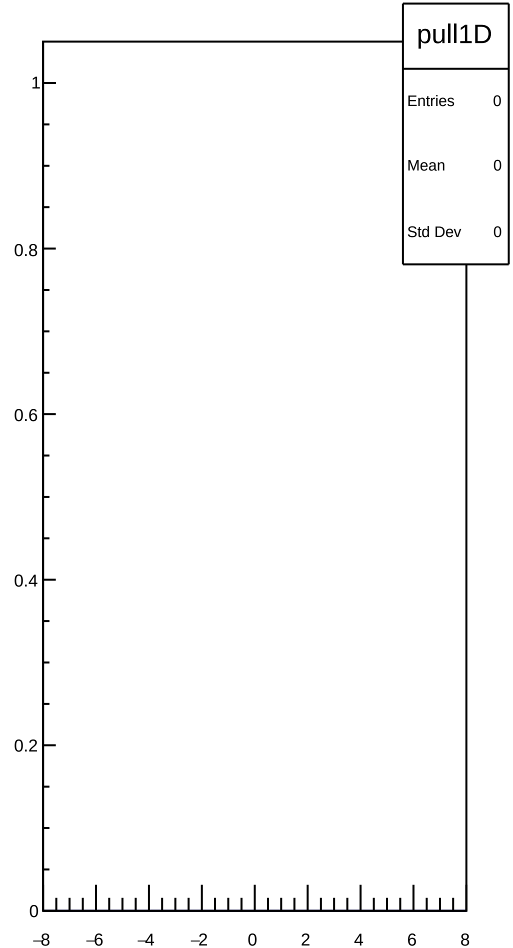
pull
Entries 0
Mean 0
Std Dev 0



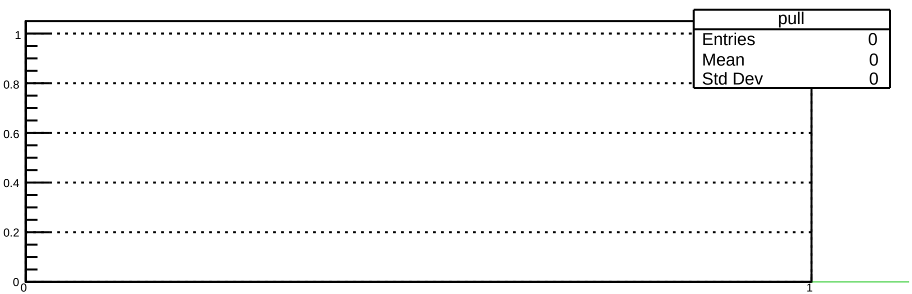
pull1D
Entries 0
Mean 0
Std Dev 0

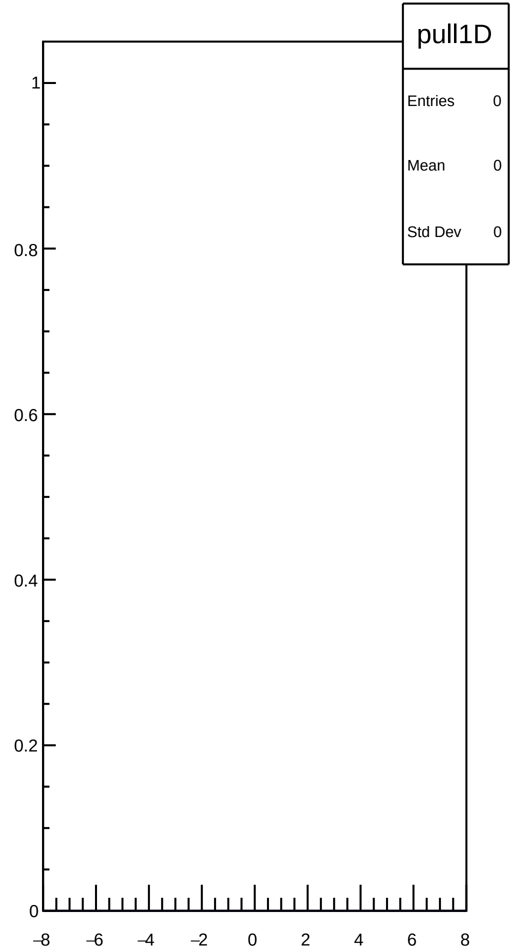


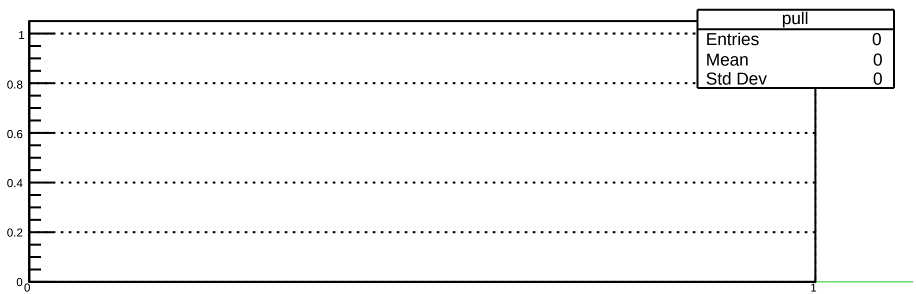
pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1



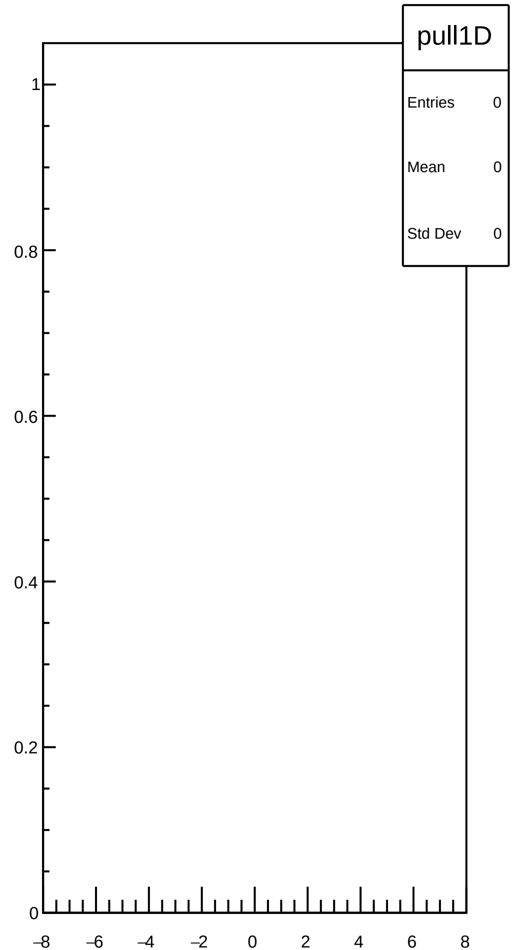
pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

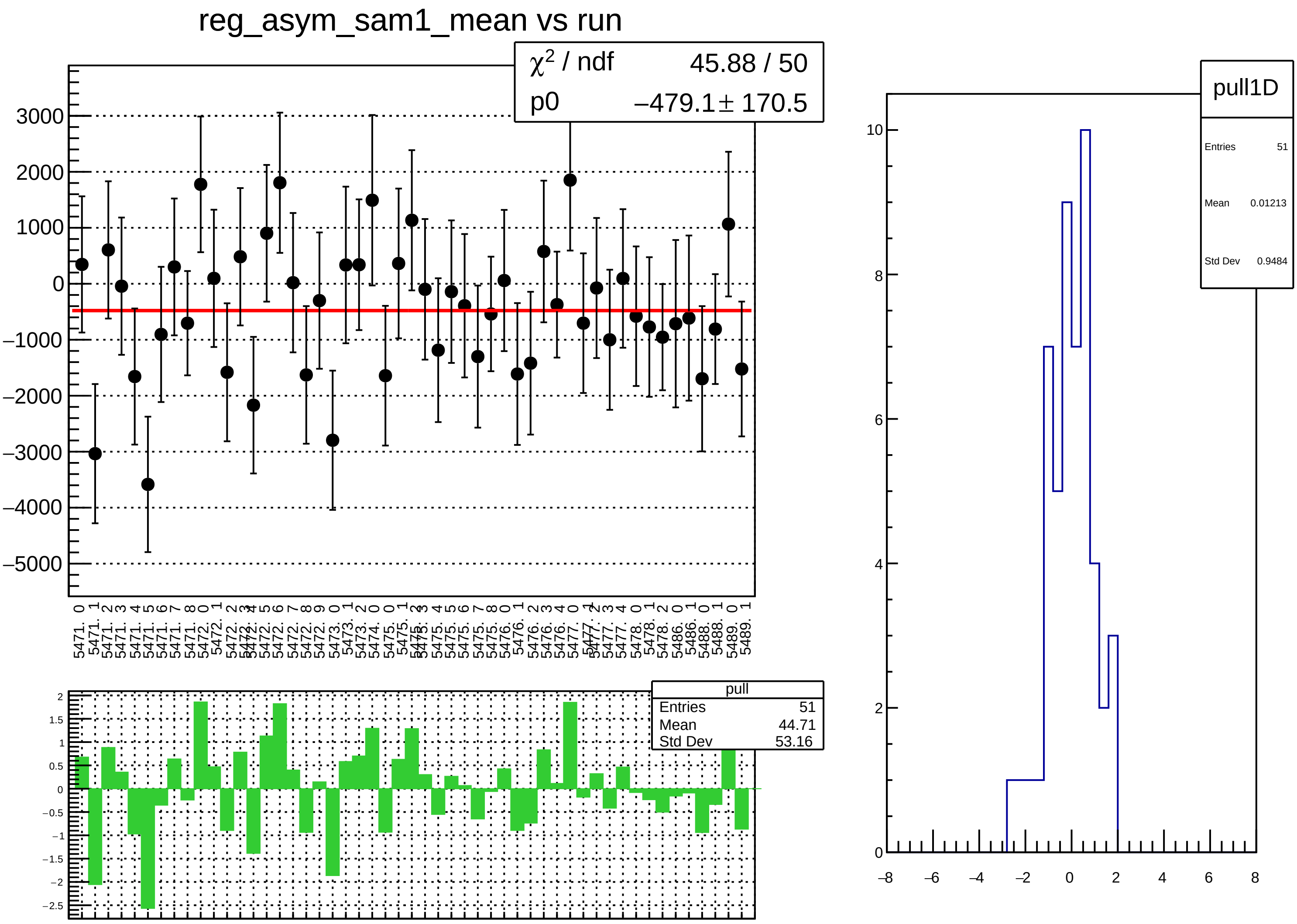

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8

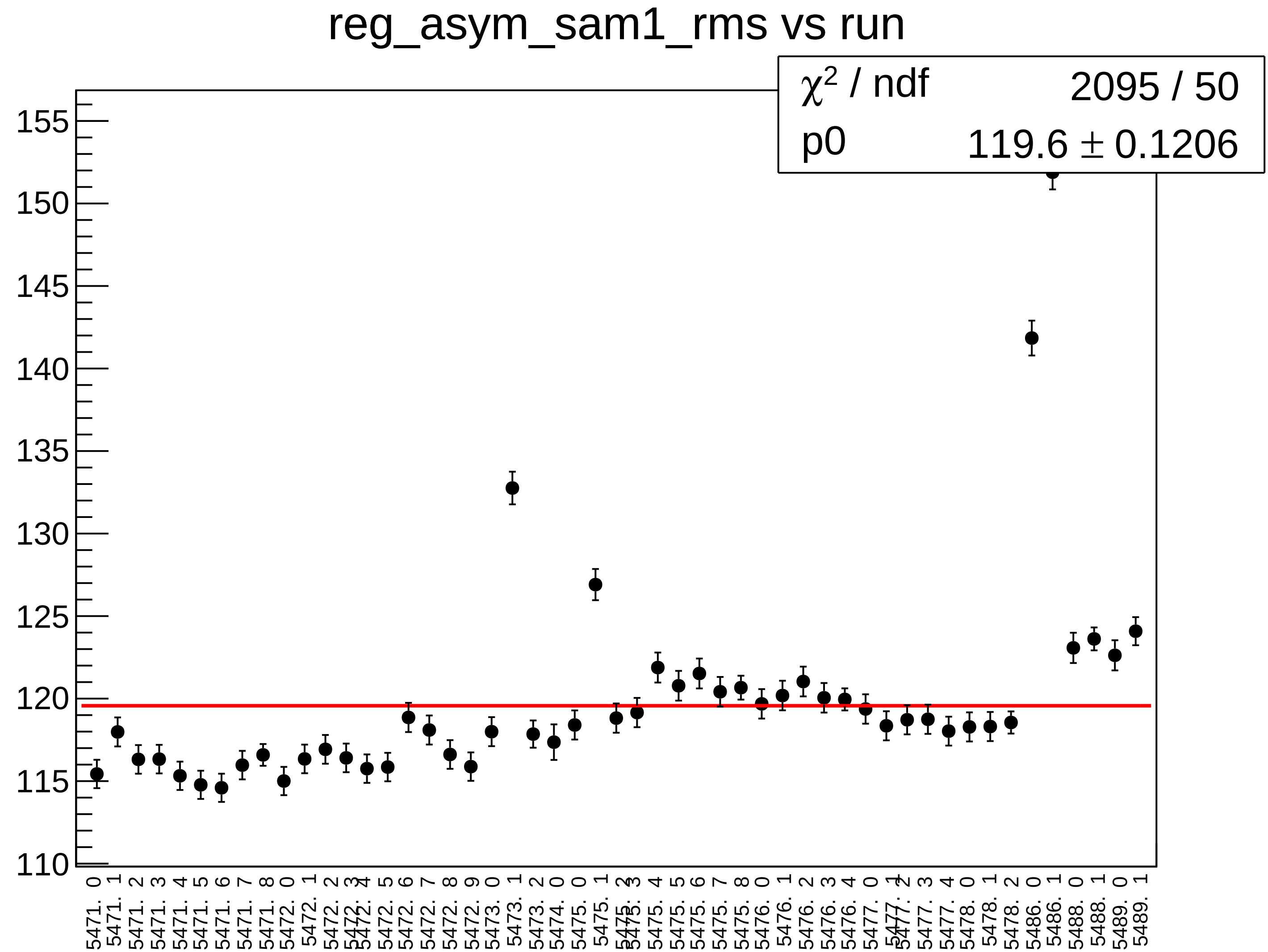


pull
Entries 0
Mean 0
Std Dev 0

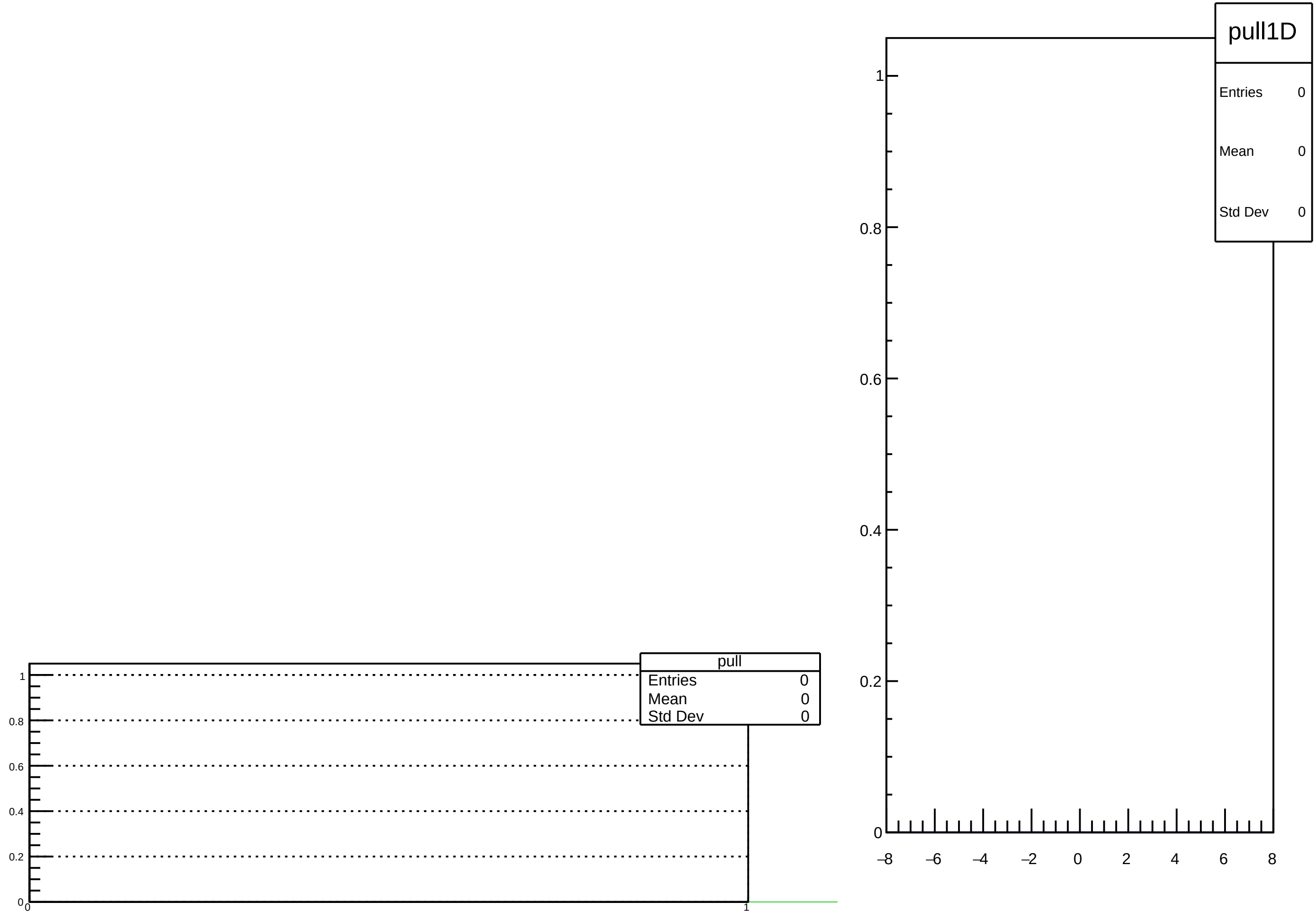


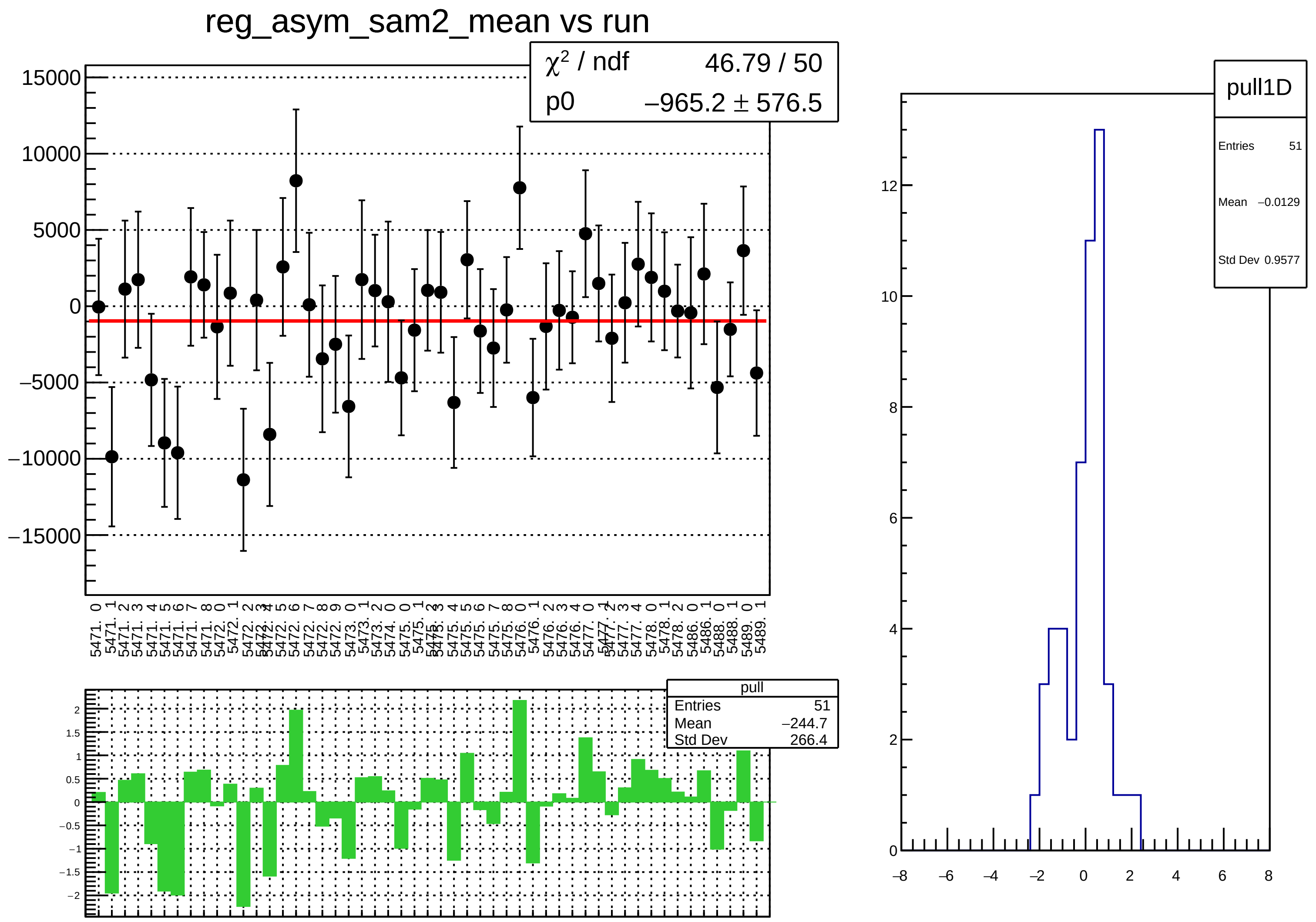
pull1D
Entries 0
Mean 0
Std Dev 0


reg_asym_sam1_mean vs run
χ^2 / ndf 45.88 / 50
p0 −479.1 ± 170.5
pull
Entries 51
Mean 44.71
Std Dev 53.16
pull1D
Entries 51
Mean 0.01213
Std Dev 0.9484

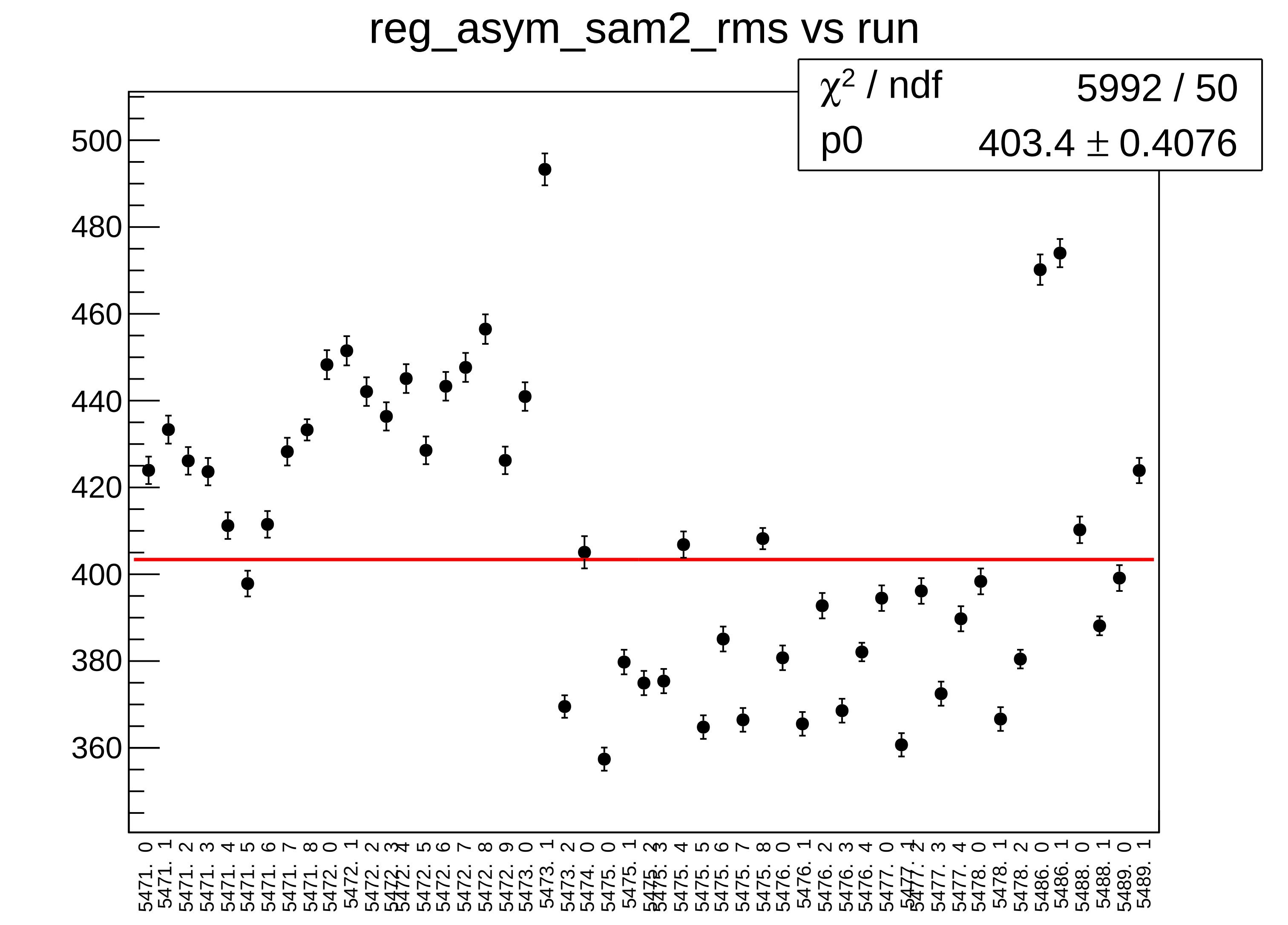


reg_asym_sam1_rms vs run
χ^2 / ndf 2095 / 50
p0 119.6 ± 0.1206
155
150
145
140
135
130
125
120
115
110

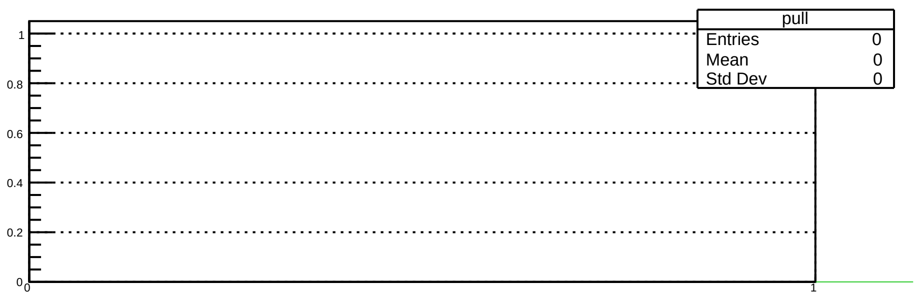

pull
Entries 0
Mean 0
Std Dev 0
pull1D
Entries 0
Mean 0
Std Dev 0



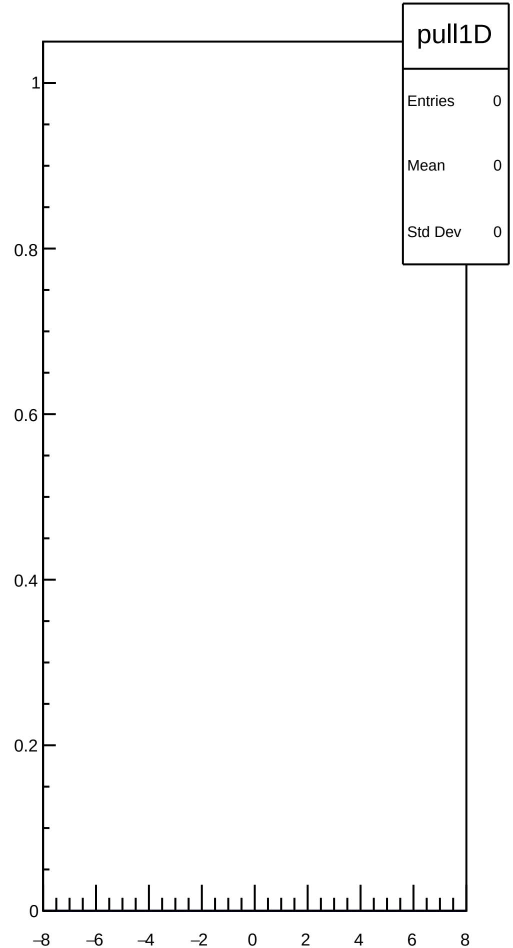
reg_asym_sam2_mean vs run
χ2 / ndf 46.79 / 50
p0 −965.2 ± 576.5
pull
Entries 51
Mean −244.7
Std Dev 266.4
pull1D
Entries 51
Mean −0.0129
Std Dev 0.9577



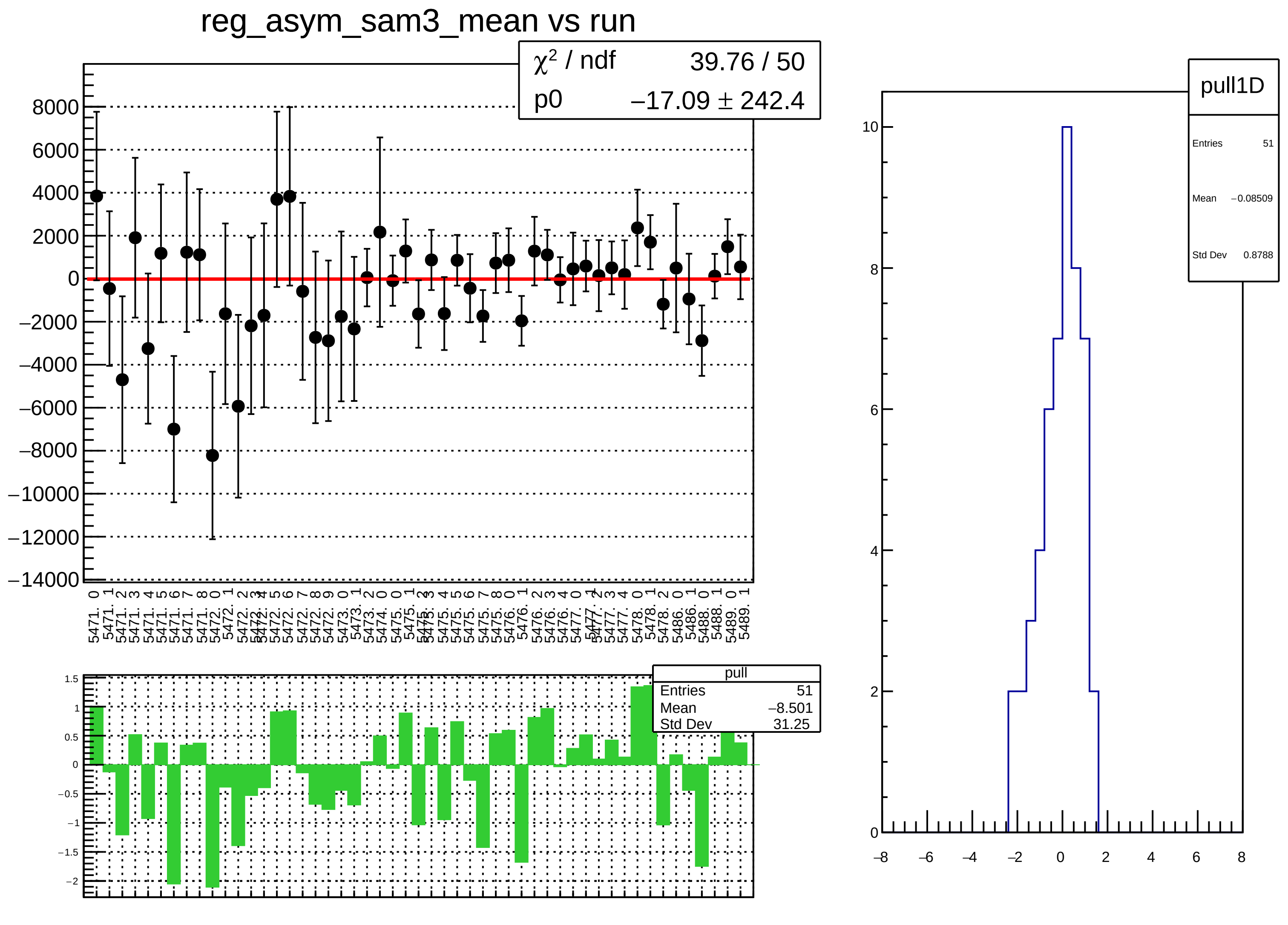
reg_asym_sam2_rms vs run
χ2 / ndf 5992 / 50
p0 403.4 ± 0.4076
500
480
460
440
420
400
380
360



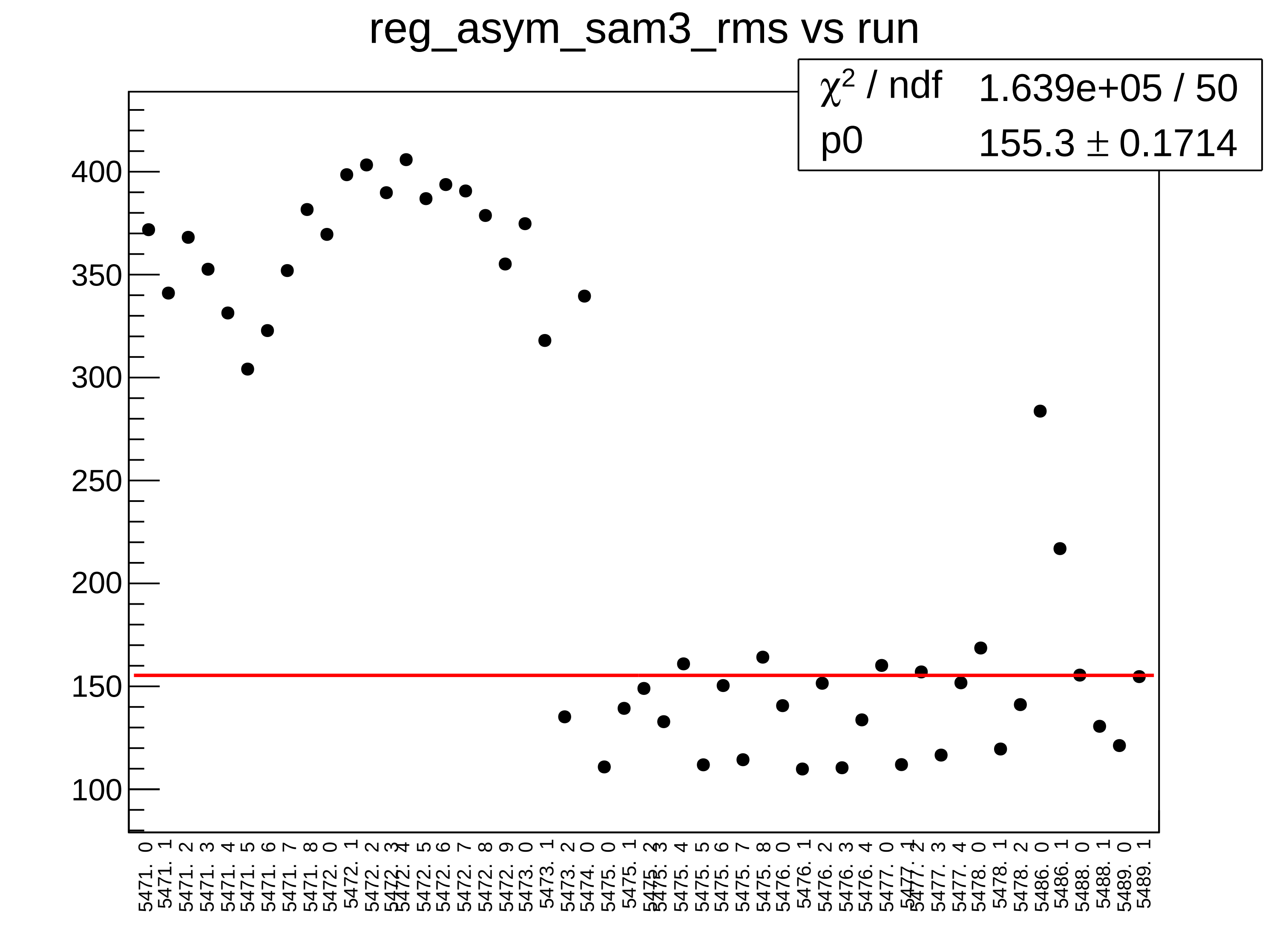
pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1



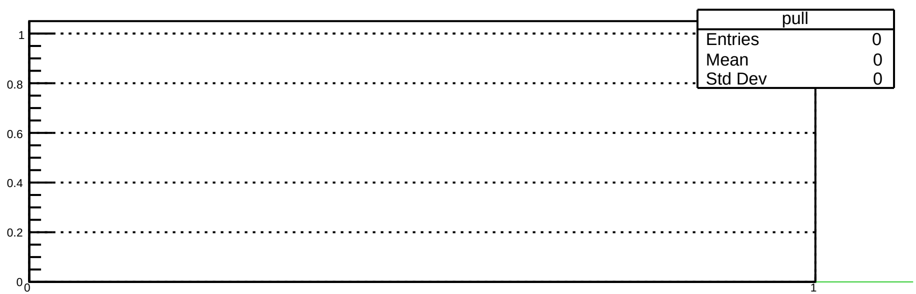
pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

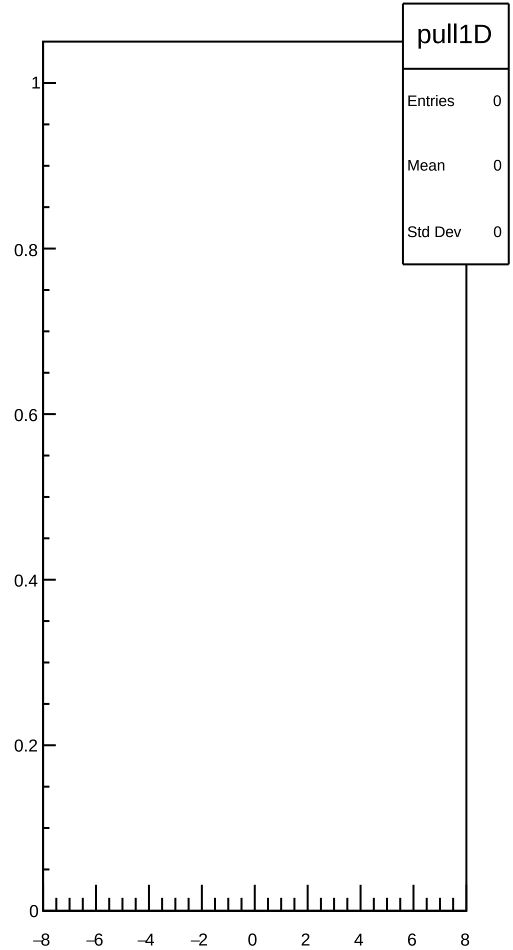


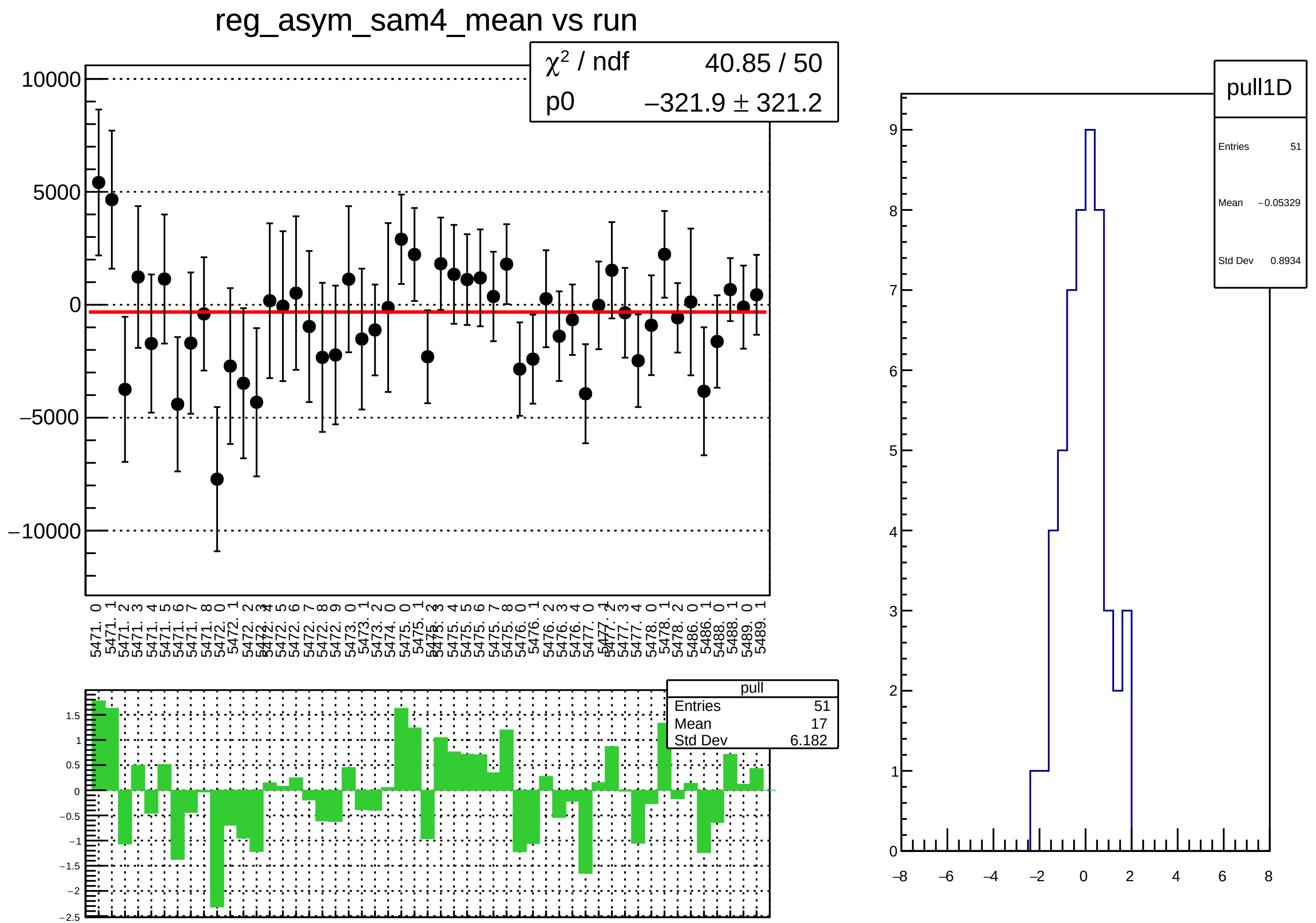
reg_asym_sam3_mean vs run
χ2 / ndf 39.76 / 50
p0 −17.09 ± 242.4
pull
Entries 51
Mean −8.501
Std Dev 31.25
pull1D
Entries 51
Mean −0.08509
Std Dev 0.8788



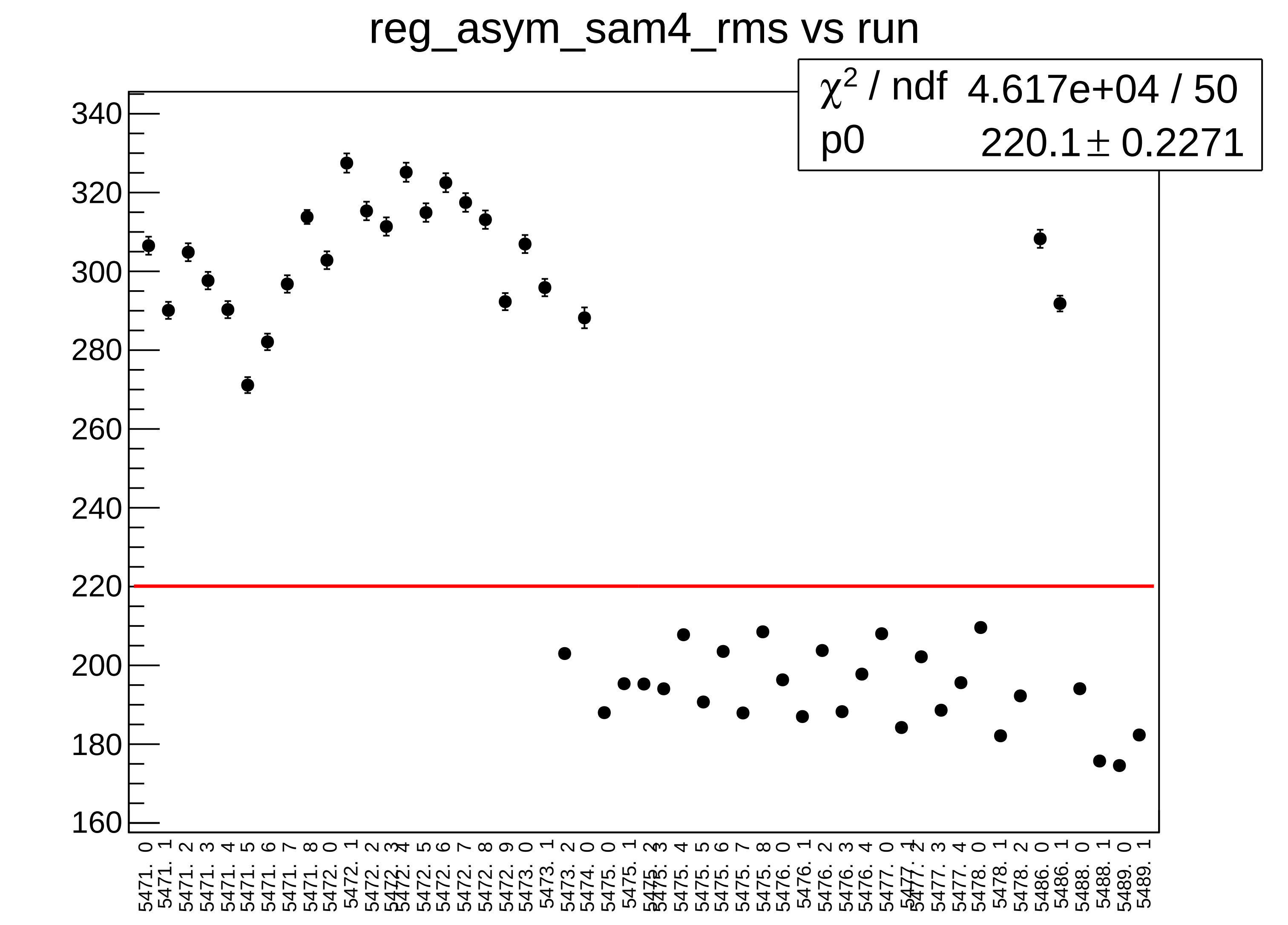
reg_asym_sam3_rms vs run
χ^2 / ndf 1.639e+05 / 50
p0 155.3 ± 0.1714
400
350
300
250
200
150
100


pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

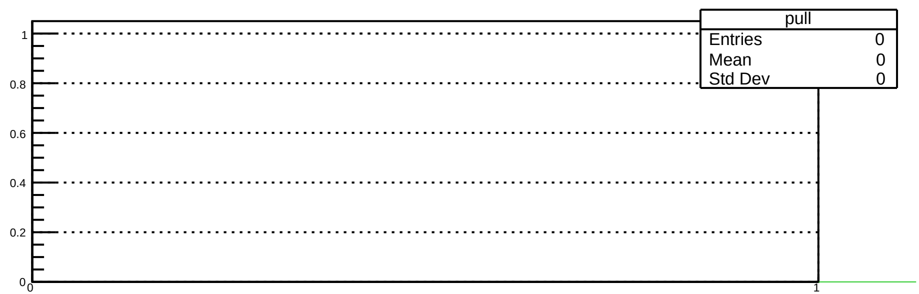

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8



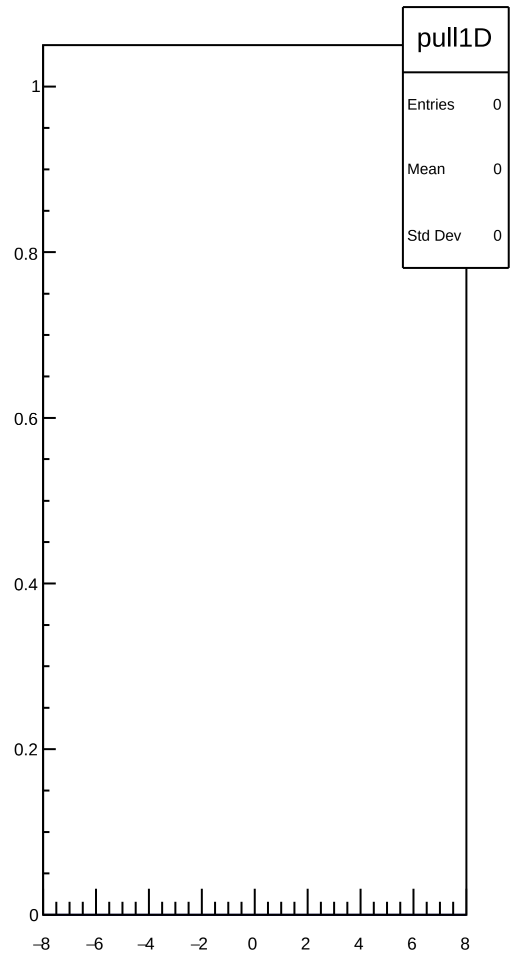
reg_asym_sam4_mean vs run
χ^2 / ndf 40.85 / 50
p0 −321.9 ± 321.2
pull
Entries 51
Mean 17
Std Dev 6.182
pull1D
Entries 51
Mean −0.05329
Std Dev 0.8934



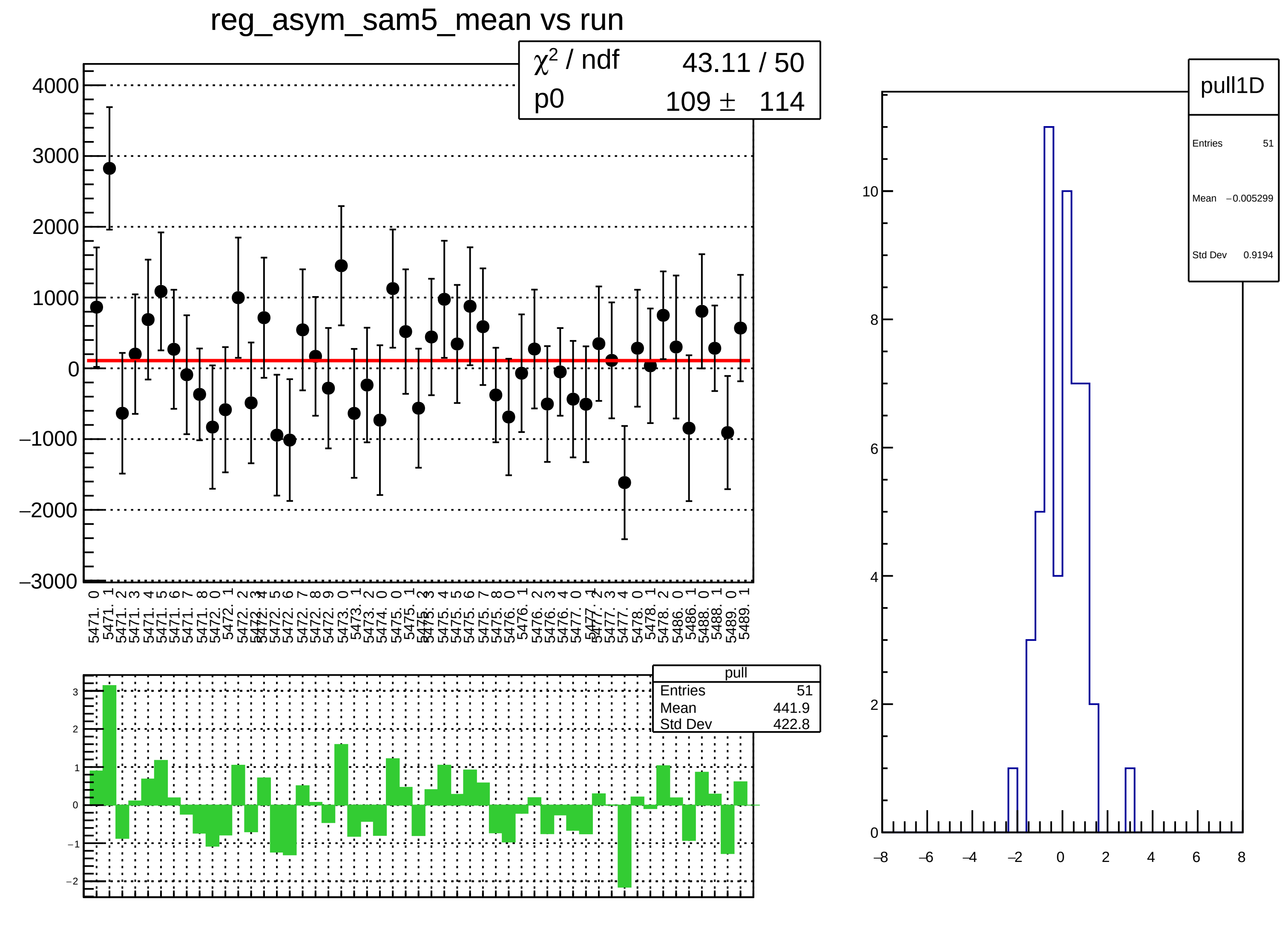
reg_asym_sam4_rms vs run
χ^2 / ndf 4.617e+04 / 50
p0 220.1 ± 0.2271
340
320
300
280
260
240
220
200
180
160



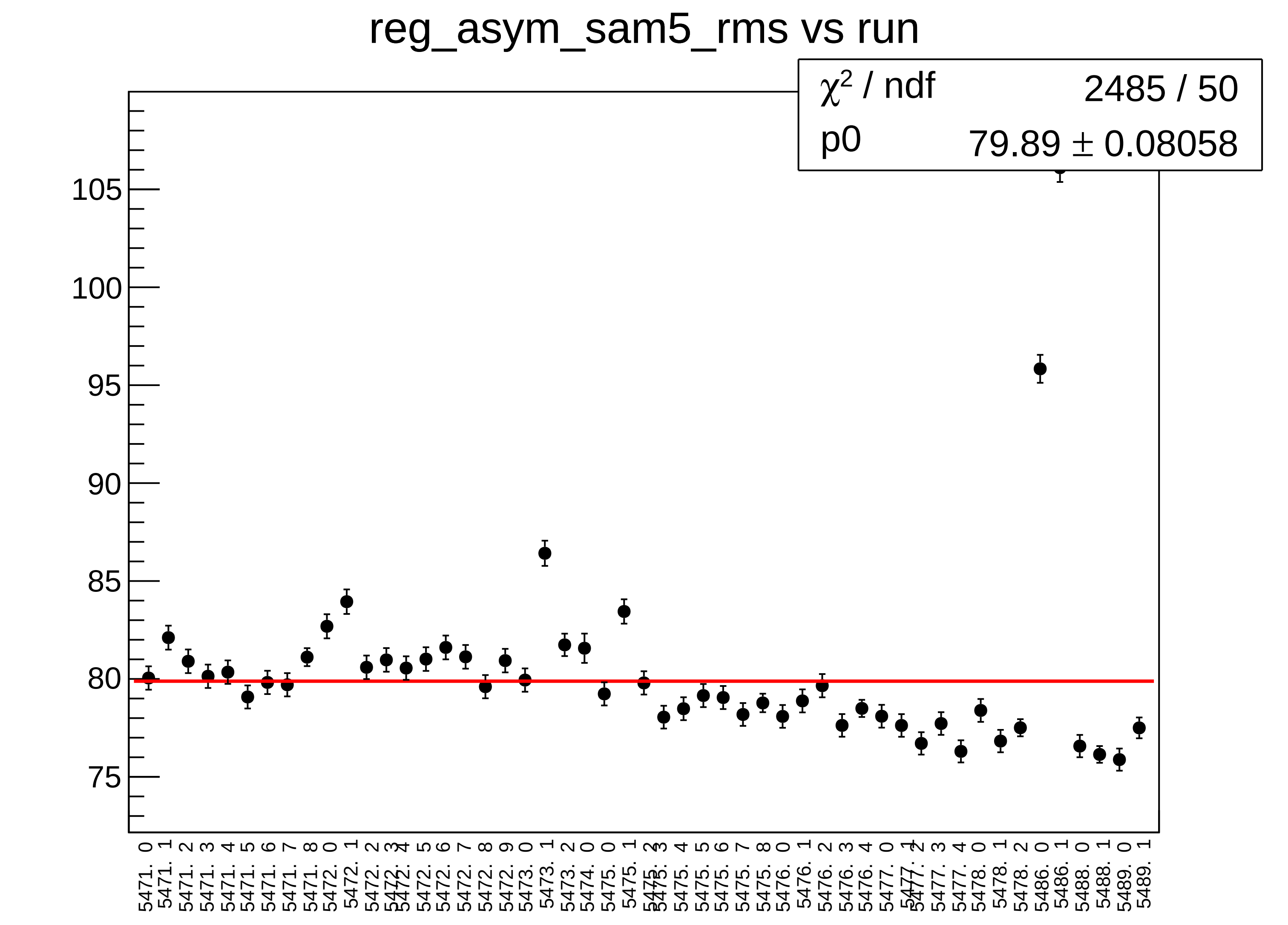
pull
Entries 0
Mean 0
Std Dev 0



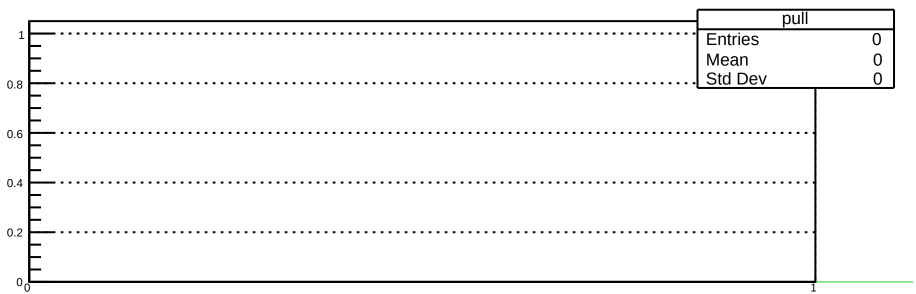
pull1D
Entries 0
Mean 0
Std Dev 0



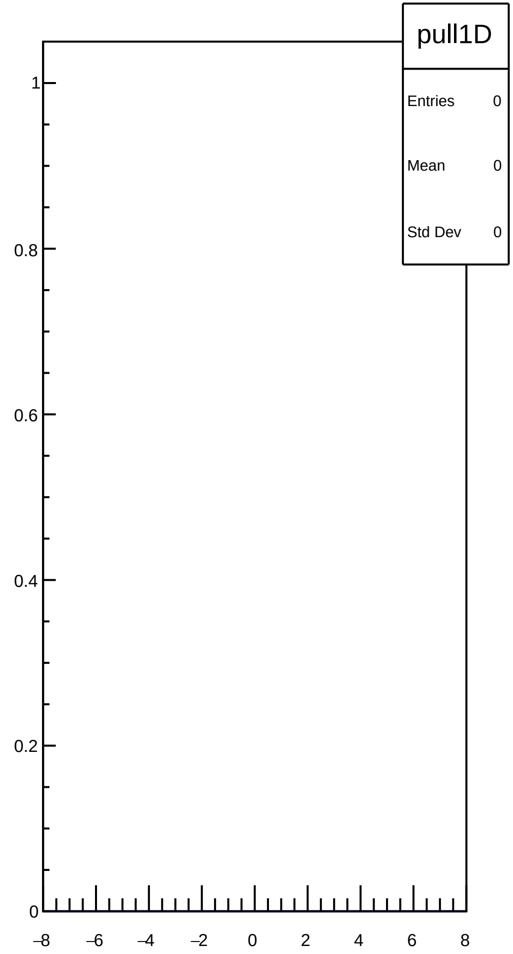
reg_asym_sam5_mean vs run
χ2 / ndf 43.11 / 50
p0 109 ± 114
pull
Entries 51
Mean 441.9
Std Dev 422.8
pull1D
Entries 51
Mean −0.005299
Std Dev 0.9194



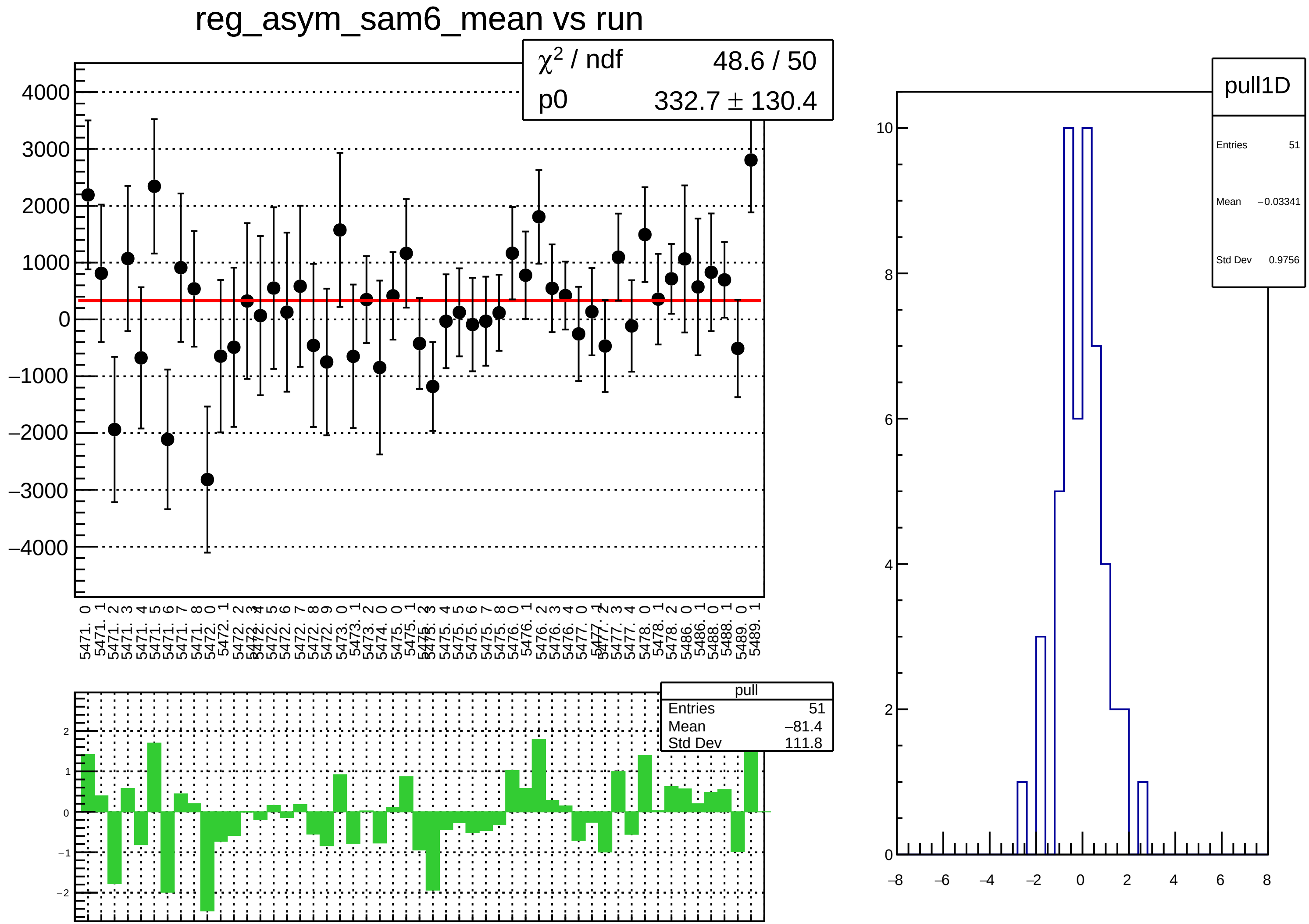
reg_asym_sam5_rms vs run
χ2 / ndf 2485 / 50
p0 79.89 ± 0.08058
105
100
95
90
85
80
75
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



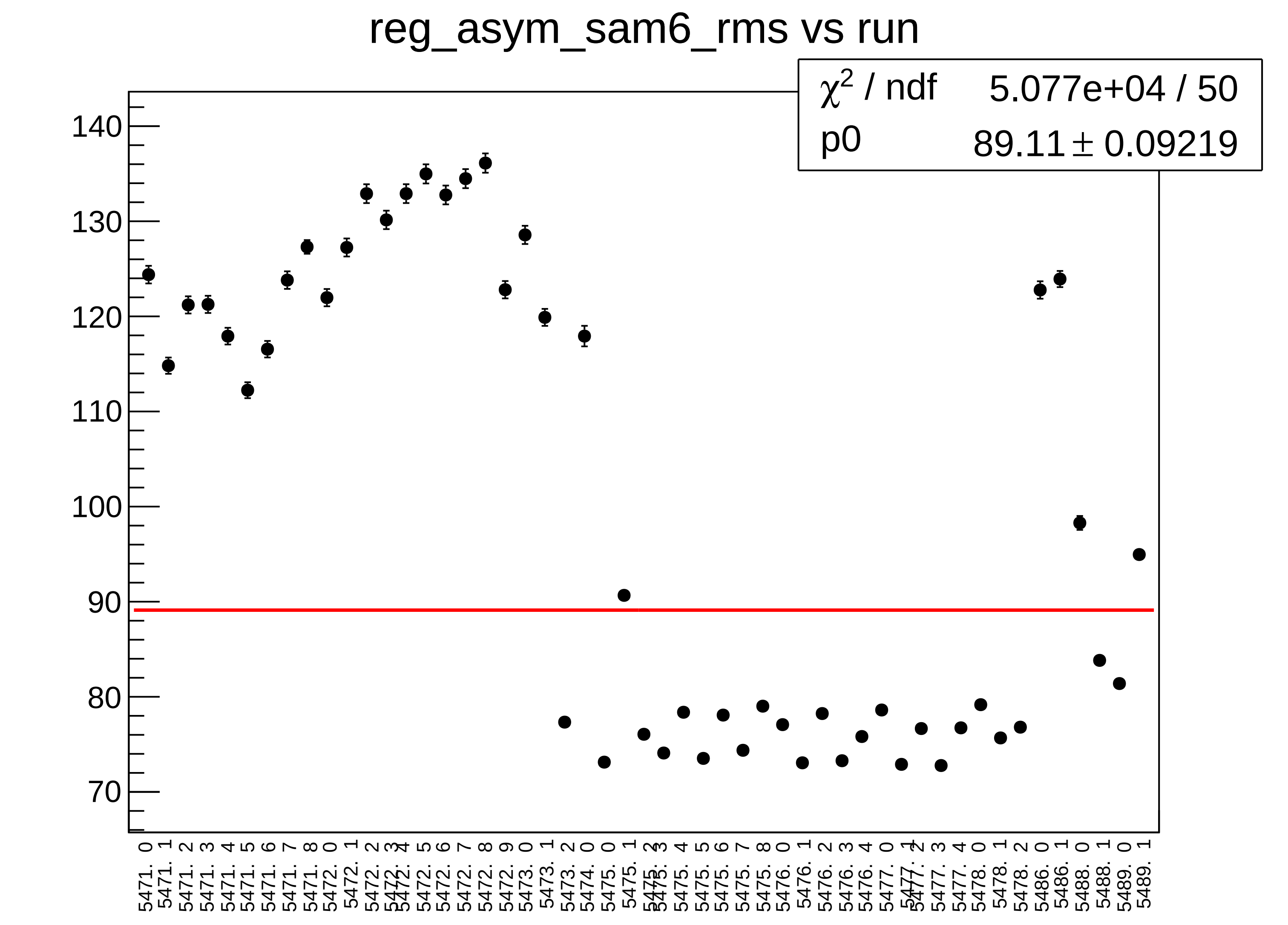
pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1



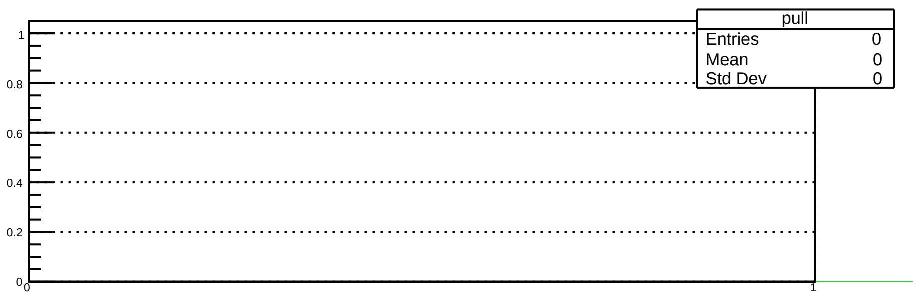
pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8

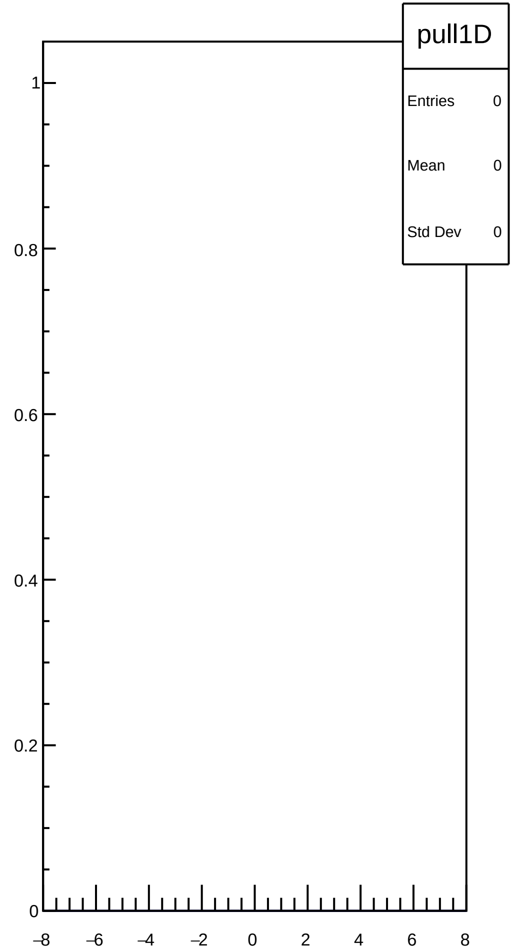


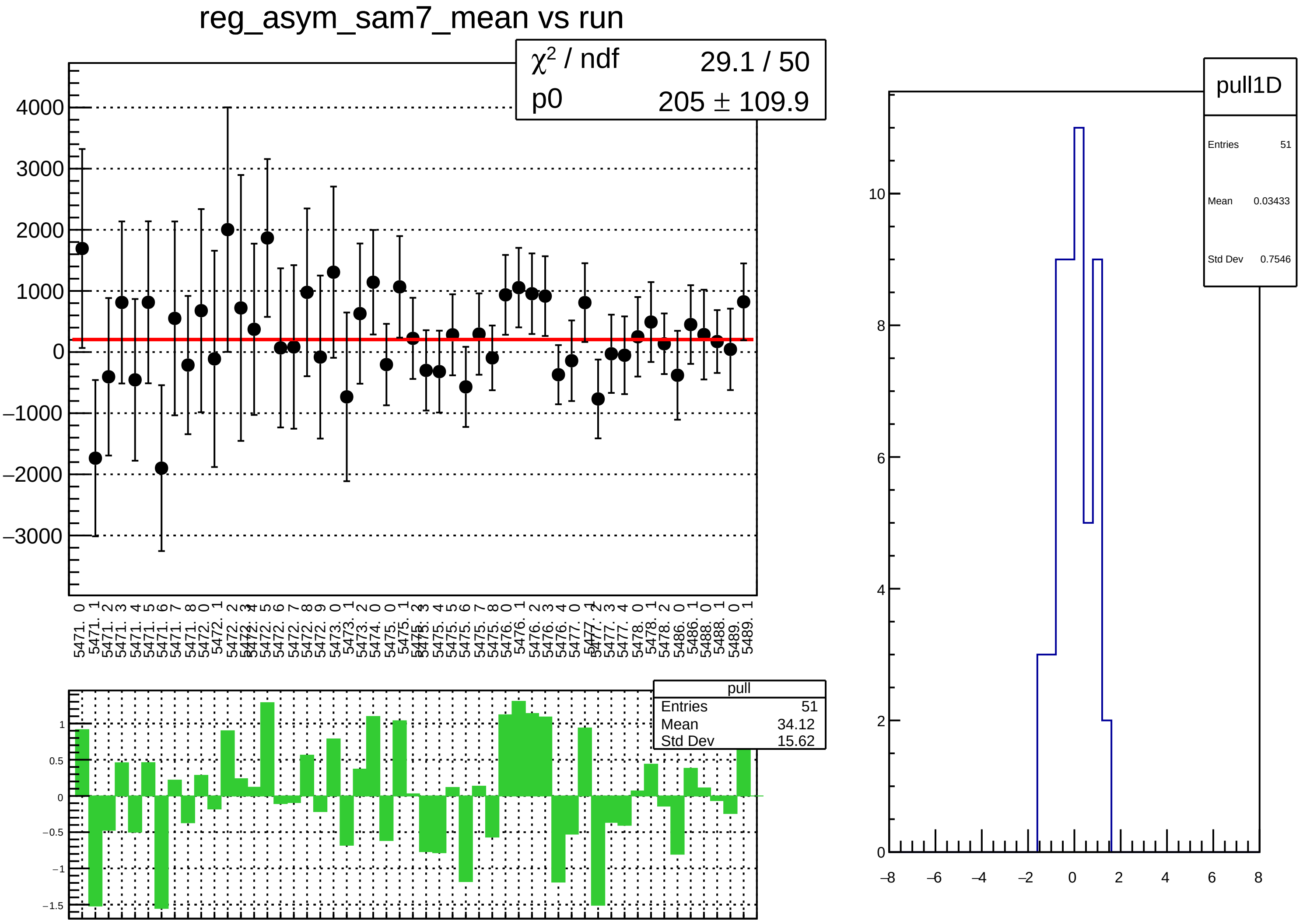
reg_asym_sam6_mean vs run
χ^2 / ndf 48.6 / 50
p0 332.7 ± 130.4
pull
Entries 51
Mean −81.4
Std Dev 111.8
pull1D
Entries 51
Mean −0.03341
Std Dev 0.9756

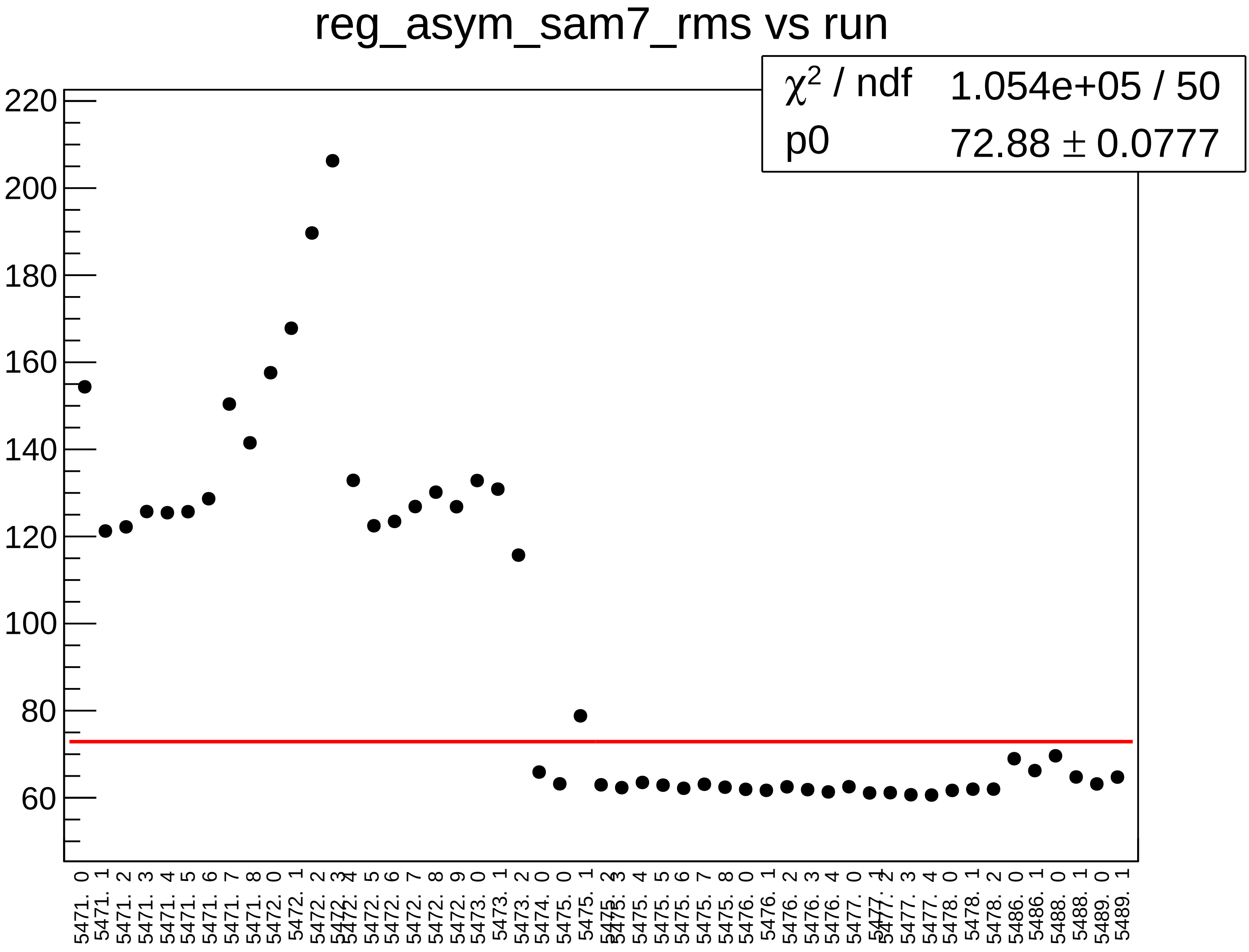


reg_asym_sam6_rms vs run
χ^2 / ndf 5.077e+04 / 50
p0 89.11 ± 0.09219
140
130
120
110
100
90
80
70

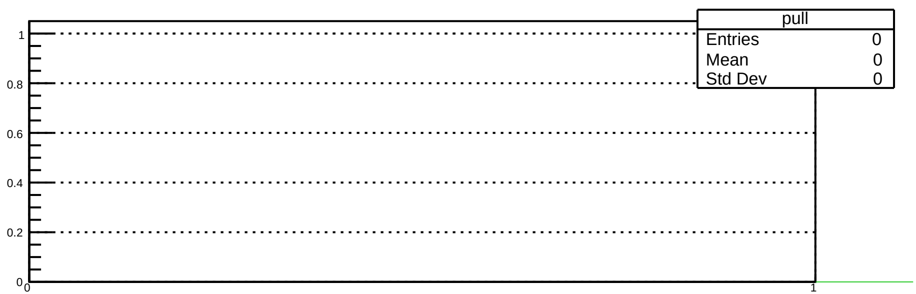

pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

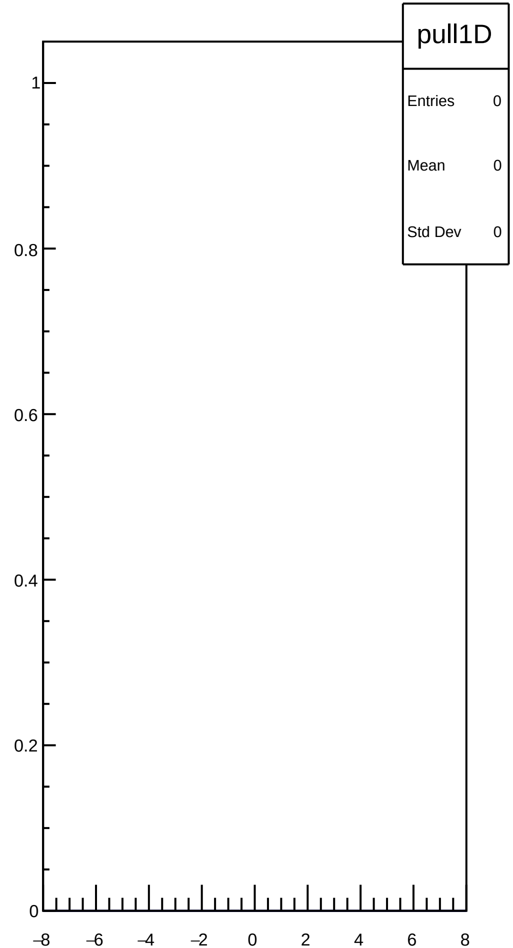

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8

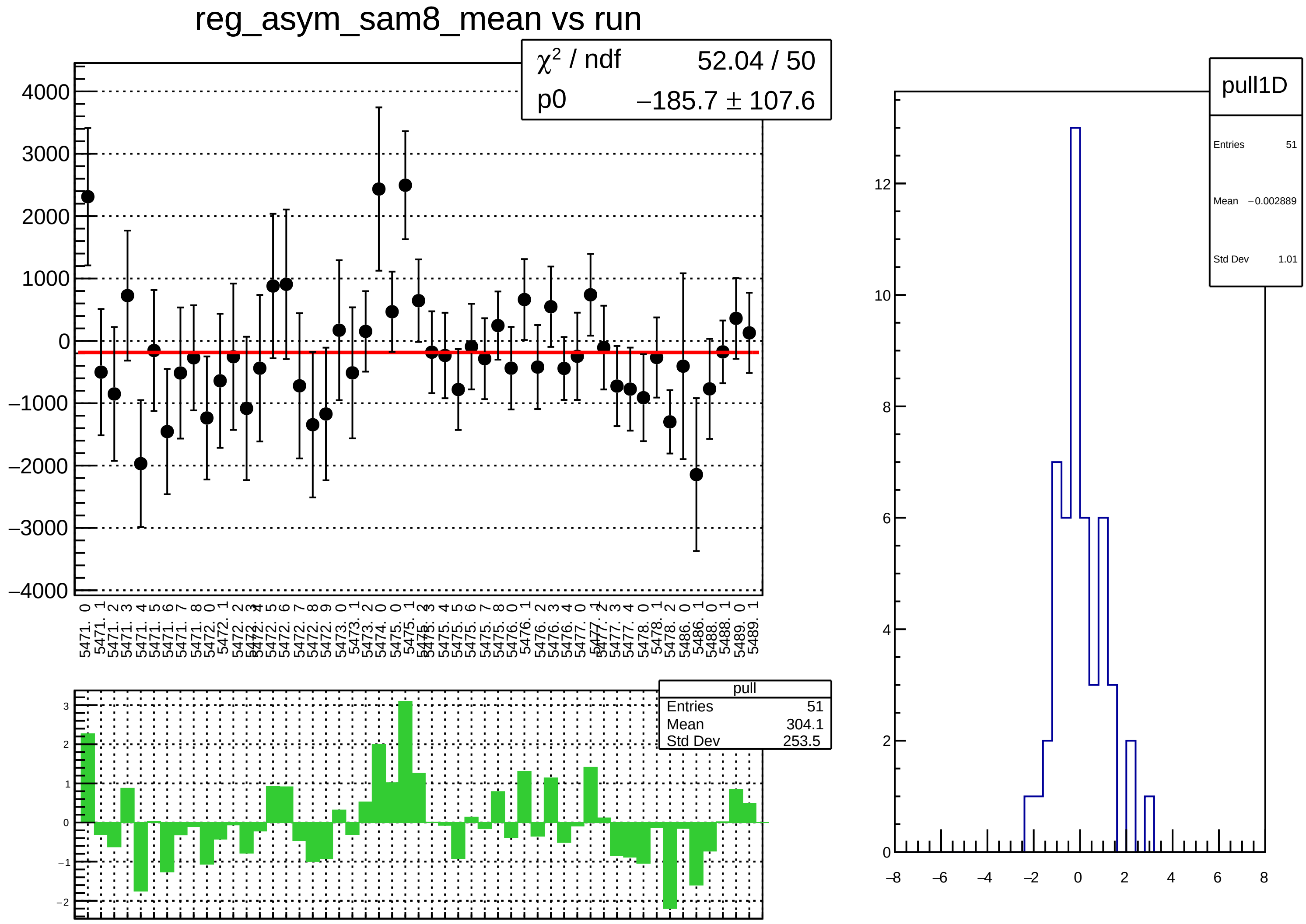

reg_asym_sam7_mean vs run
χ2 / ndf 29.1 / 50
p0 205 ± 109.9
pull
Entries 51
Mean 34.12
Std Dev 15.62
pull1D
Entries 51
Mean 0.03433
Std Dev 0.7546



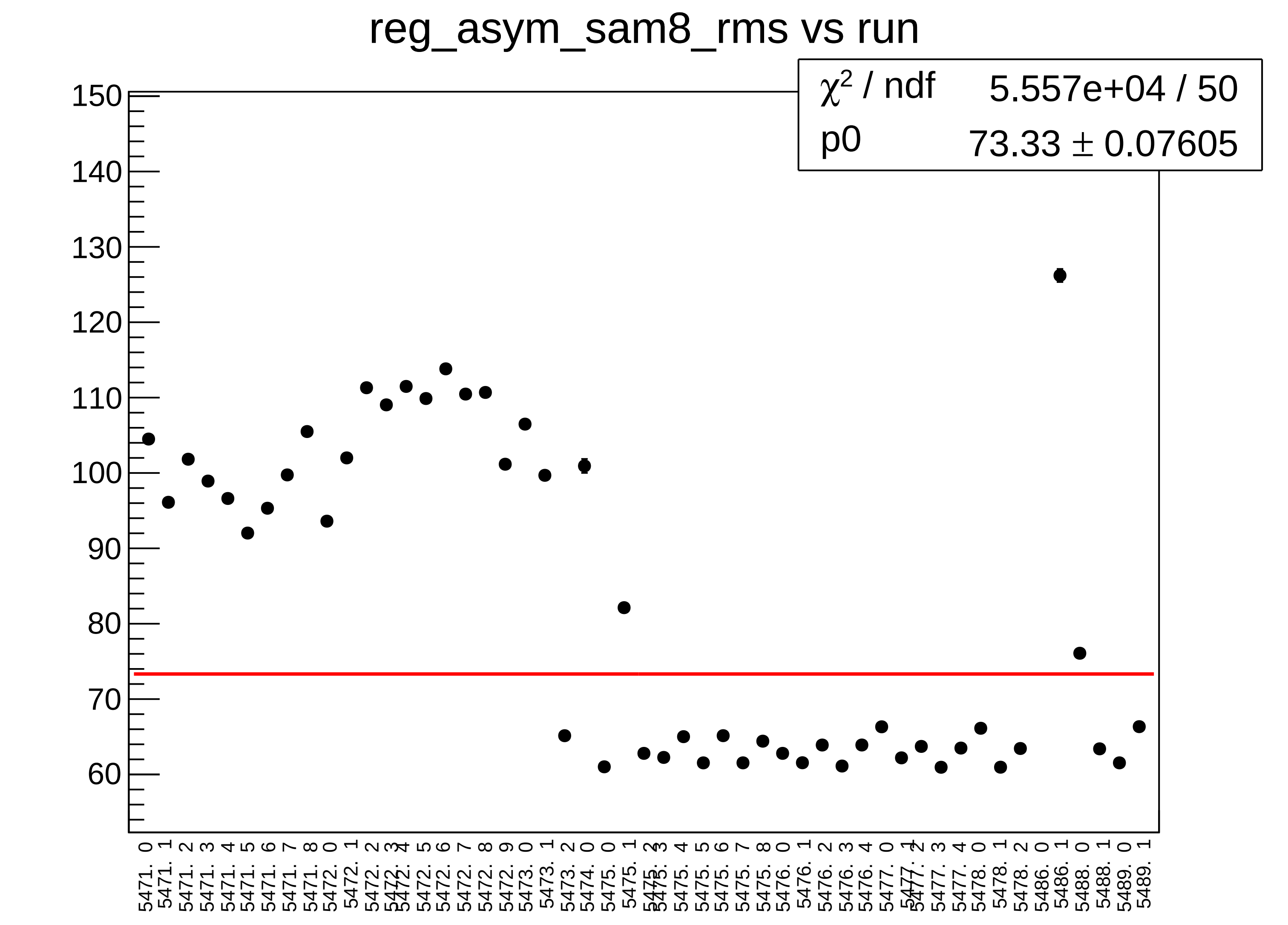
reg_asym_sam7_rms vs run
χ^2 / ndf 1.054e+05 / 50
p0 72.88 ± 0.0777
220
200
180
160
140
120
100
80
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

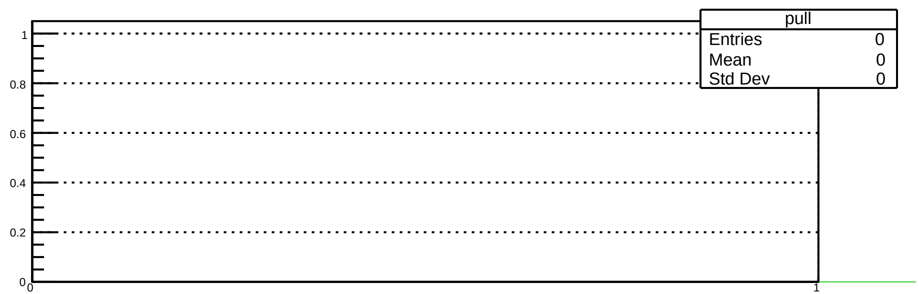

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

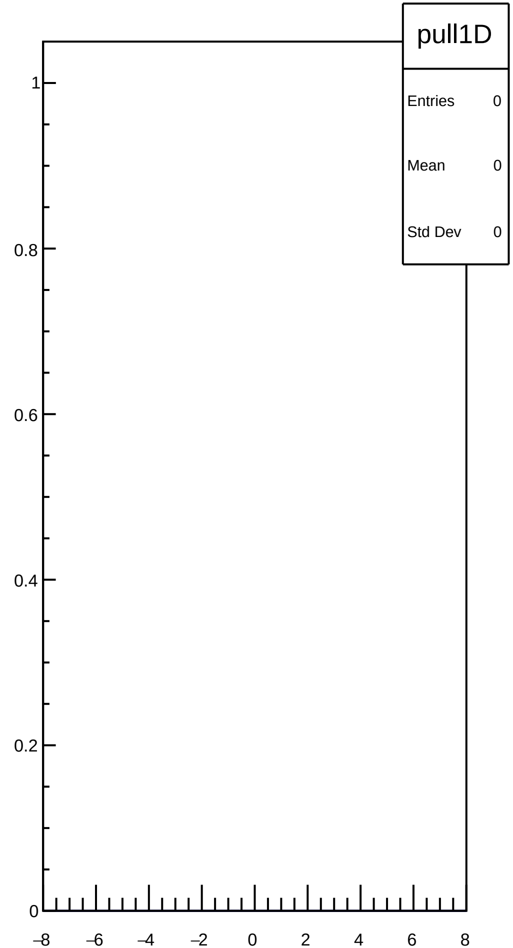


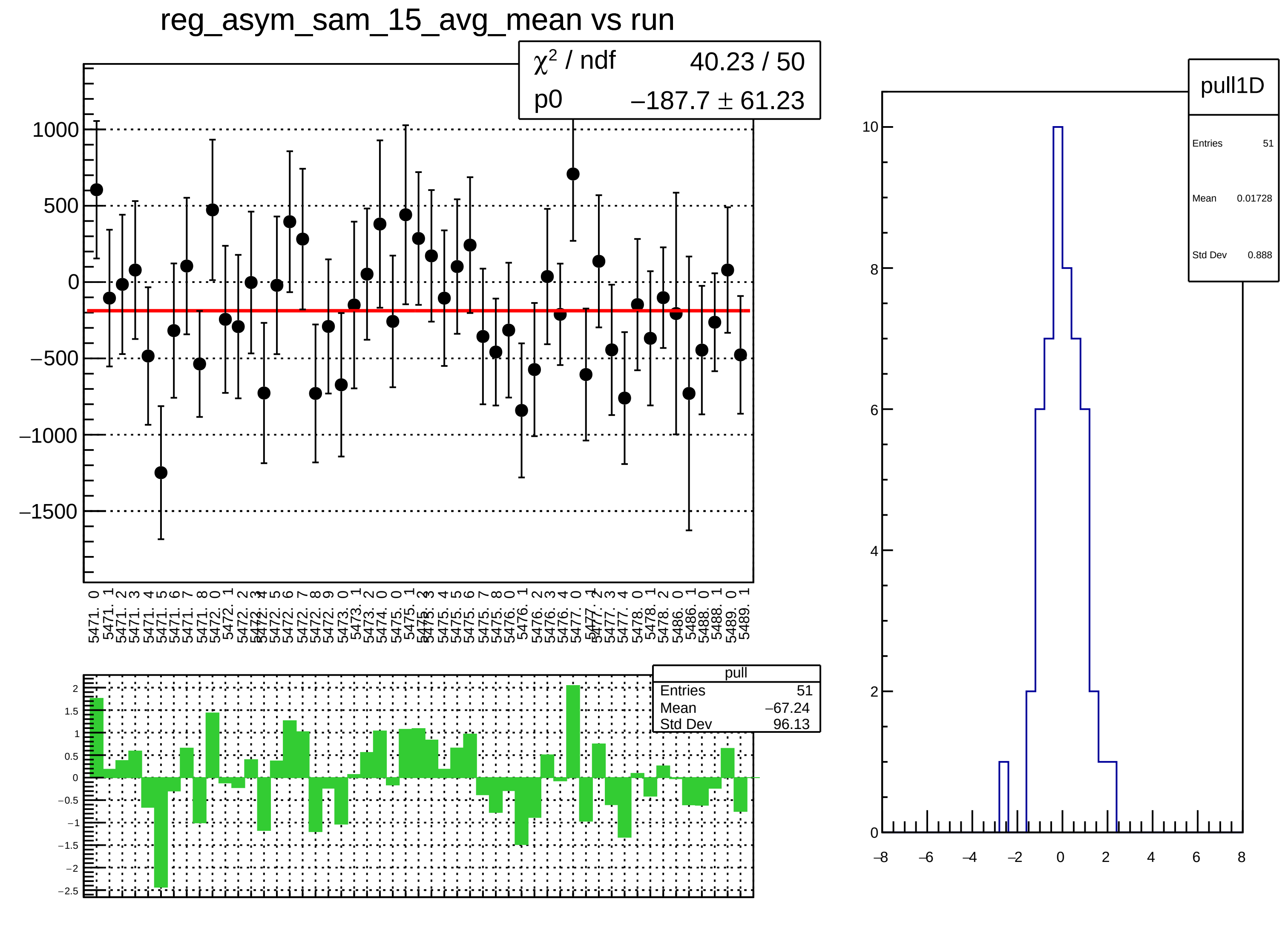
reg_asym_sam8_mean vs run
χ2 / ndf 52.04 / 50
p0 −185.7 ± 107.6
pull
Entries 51
Mean 304.1
Std Dev 253.5
pull1D
Entries 51
Mean −0.002889
Std Dev 1.01



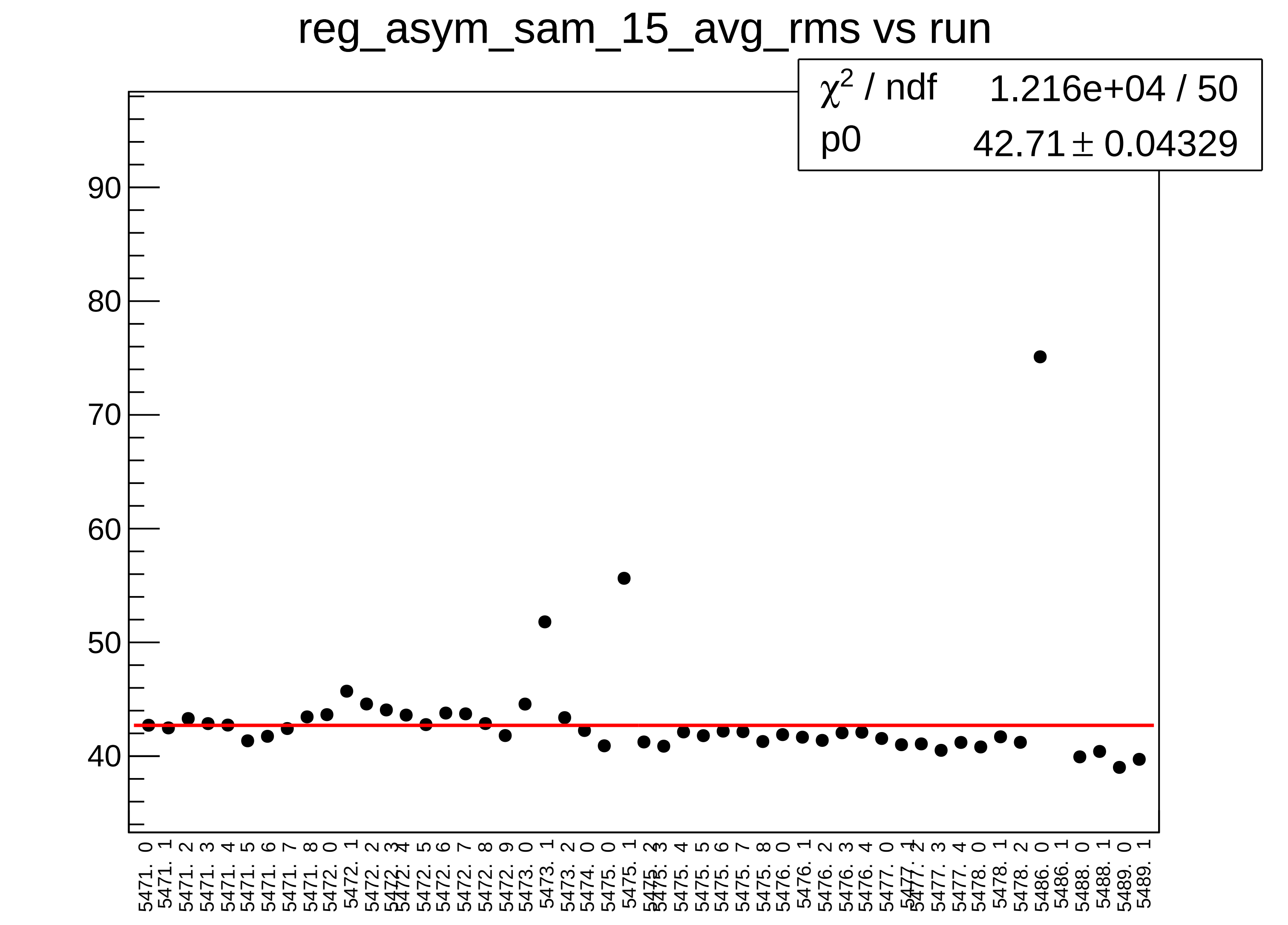
reg_asym_sam8_rms vs run
χ^2 / ndf 5.557e+04 / 50
p0 73.33 ± 0.07605
150
140
130
120
110
100
90
80
70
60


pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

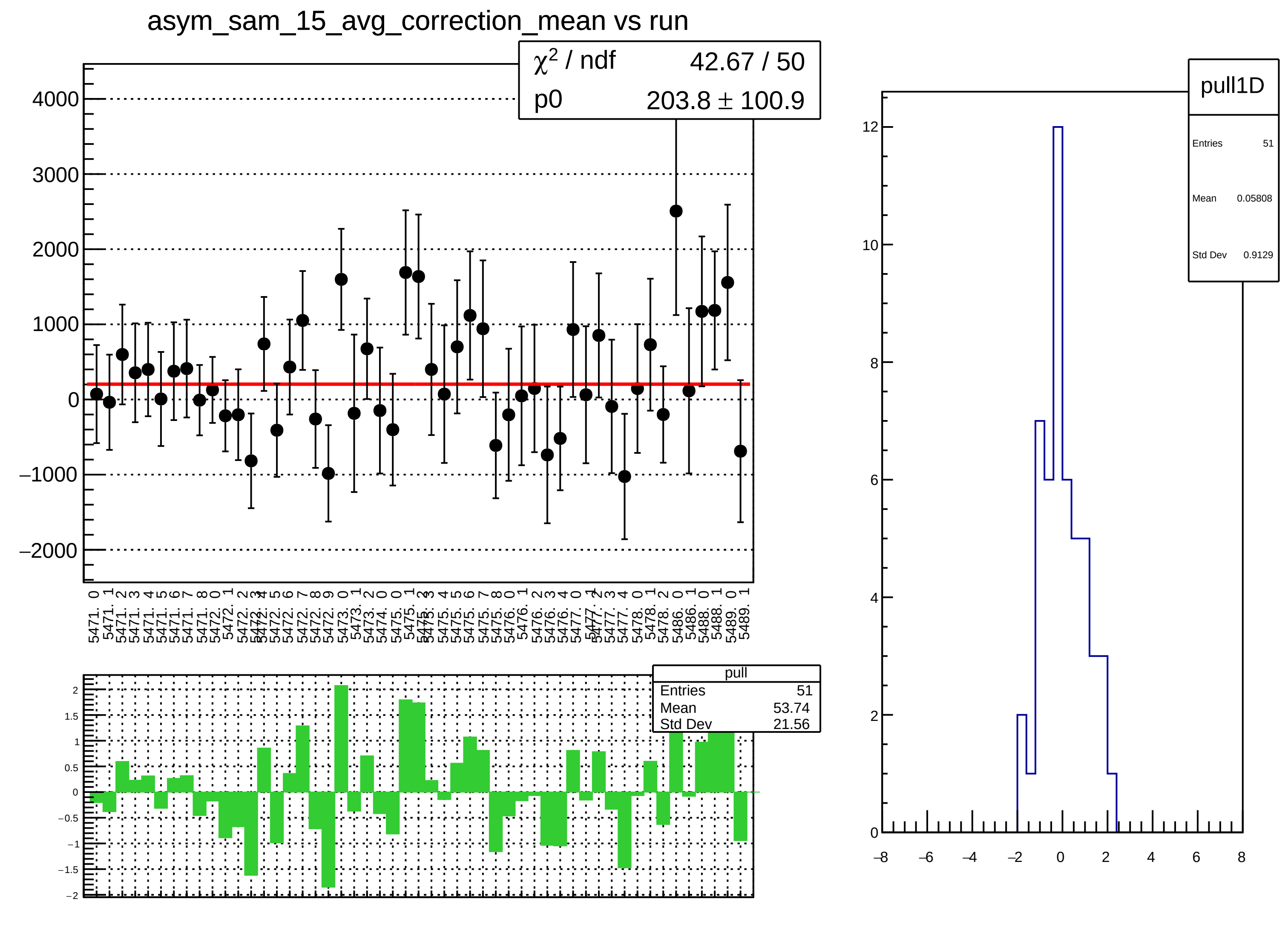

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8



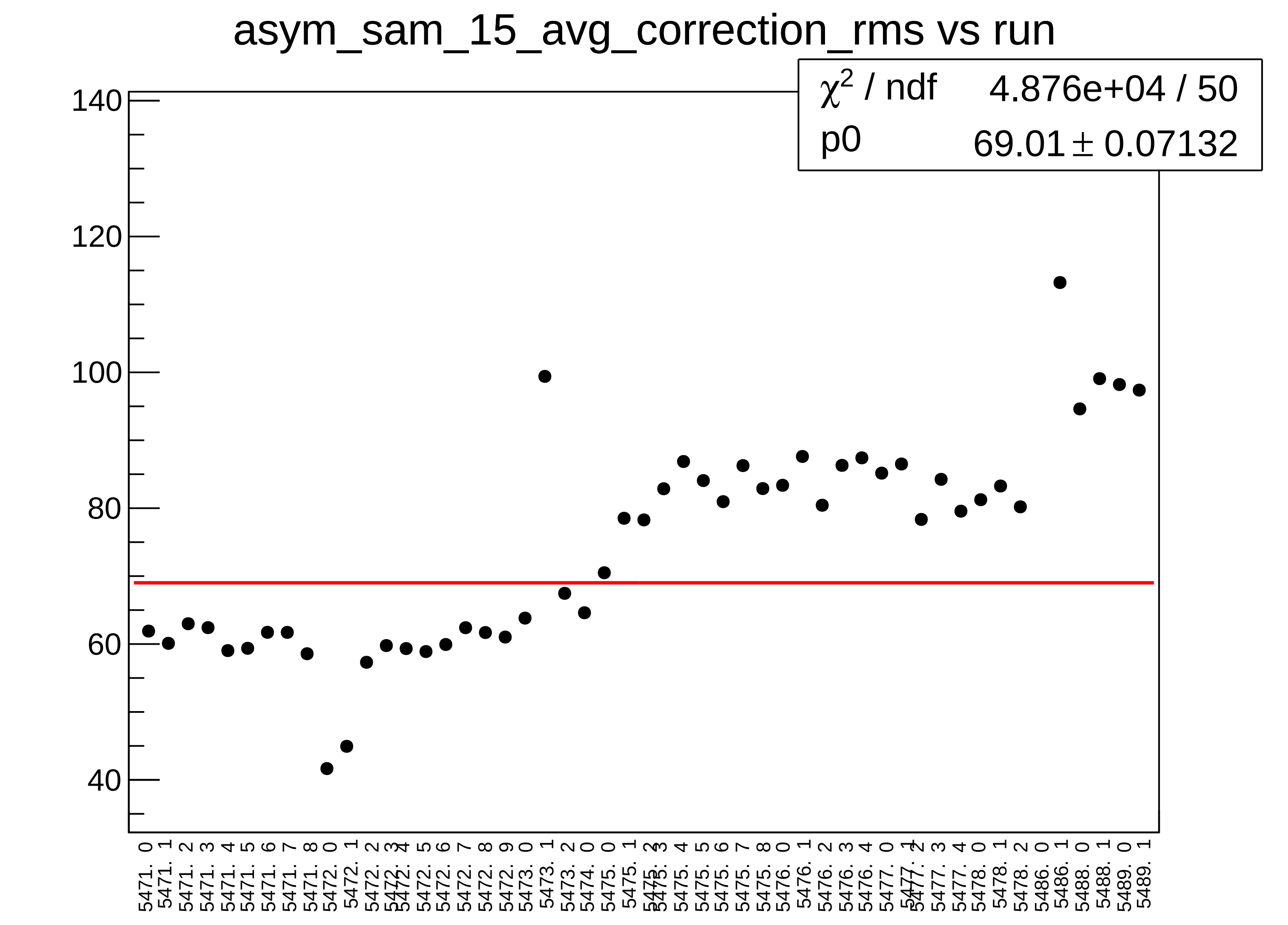
reg_asym_sam_15_avg_mean vs run
χ^2 / ndf 40.23 / 50
p0 −187.7 ± 61.23
pull
Entries 51
Mean −67.24
Std Dev 96.13
pull1D
Entries 51
Mean 0.01728
Std Dev 0.888

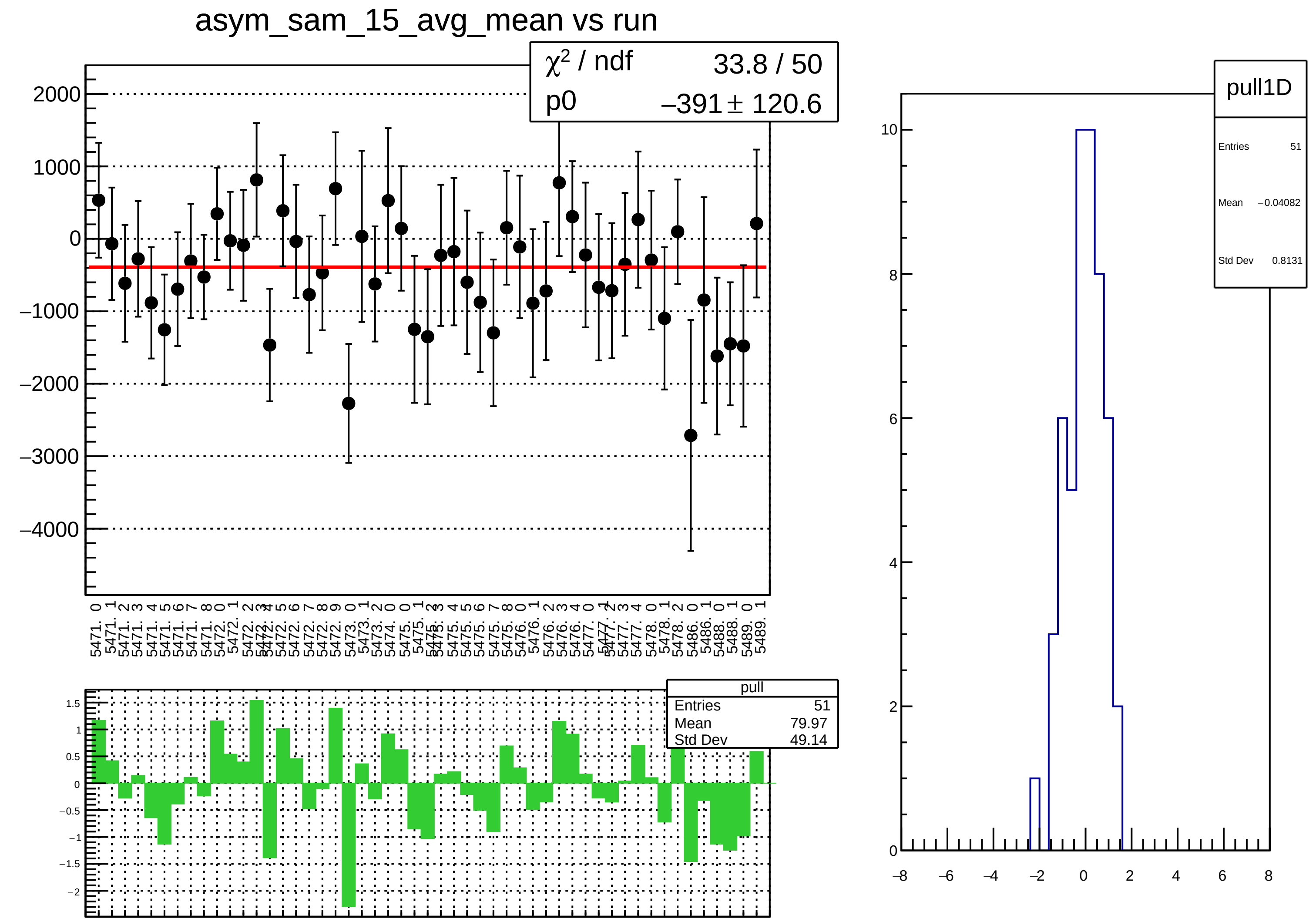


reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.216e+04 / 50
p0 42.71 ± 0.04329
90
80
70
60
50
40

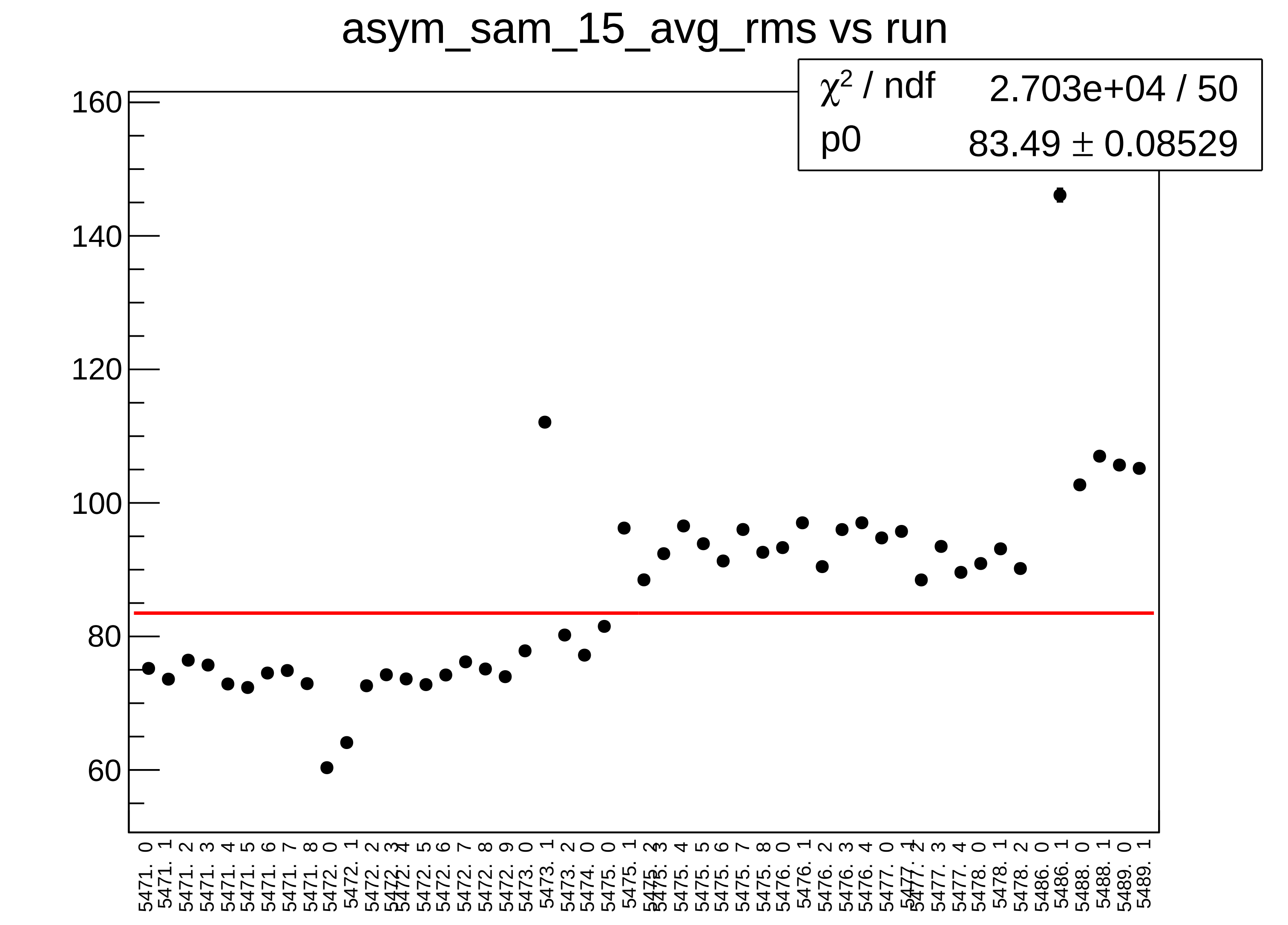


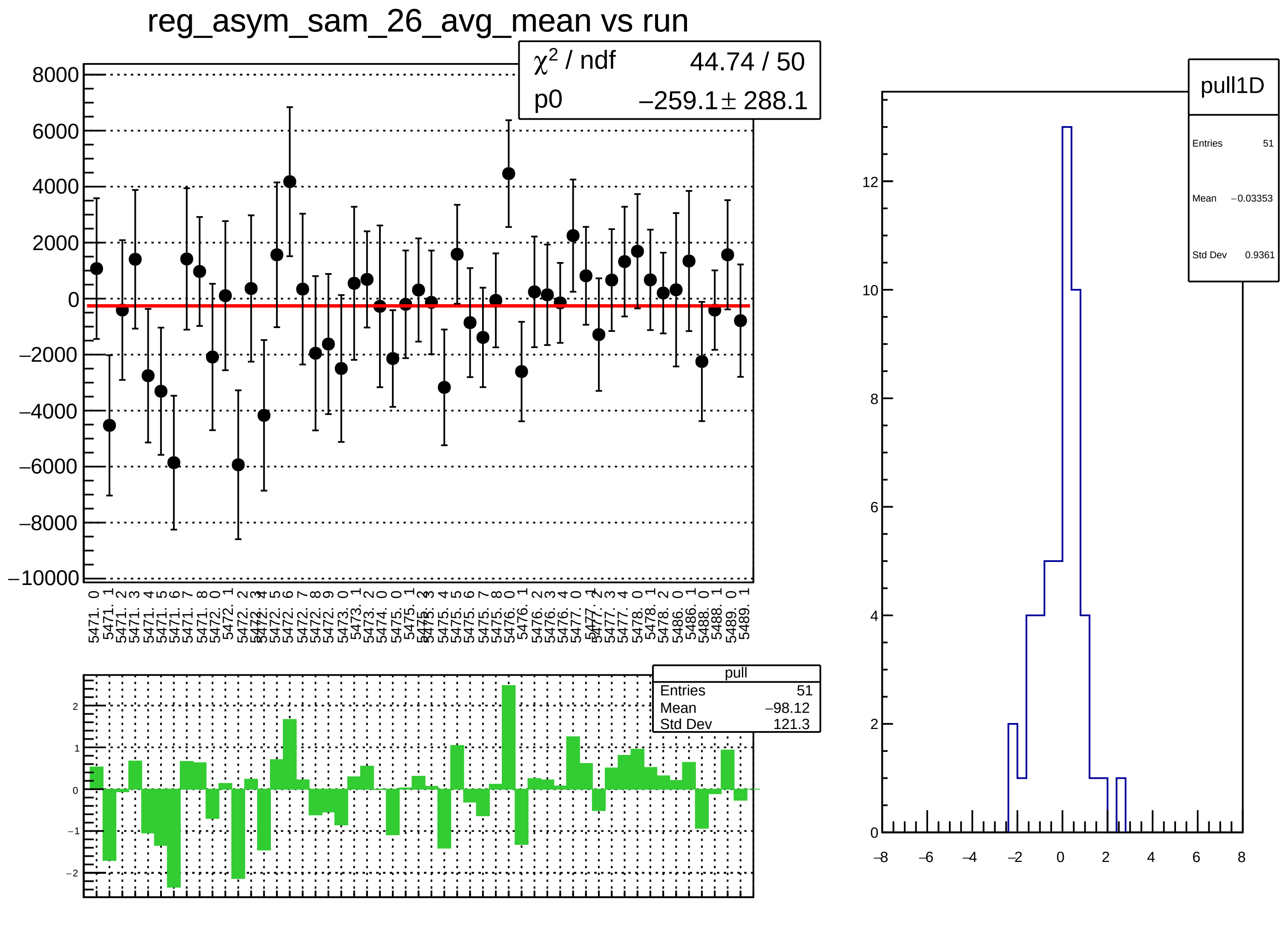
asym_sam_15_avg_correction_mean vs run
χ2 / ndf 42.67 / 50
p0 203.8 ± 100.9
pull
Entries 51
Mean 53.74
Std Dev 21.56
pull1D
Entries 51
Mean 0.05808
Std Dev 0.9129


asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 4.876e+04 / 50
p0 69.01 ± 0.07132
140
120
100
80
60
40

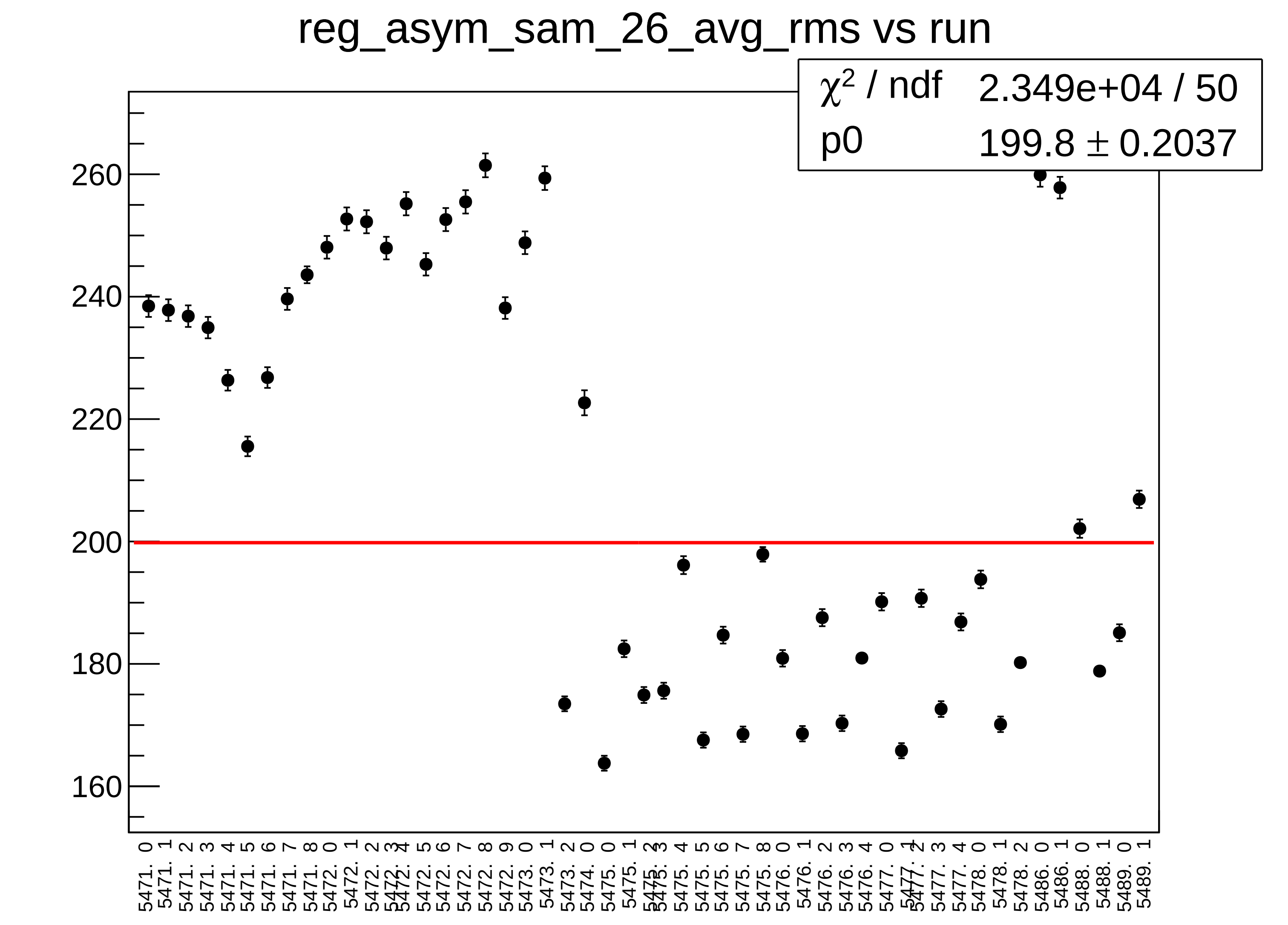


asym_sam_15_avg_mean vs run
χ^2 / ndf 33.8 / 50
p0 −391 ± 120.6
pull
Entries 51
Mean 79.97
Std Dev 49.14
pull1D
Entries 51
Mean −0.04082
Std Dev 0.8131

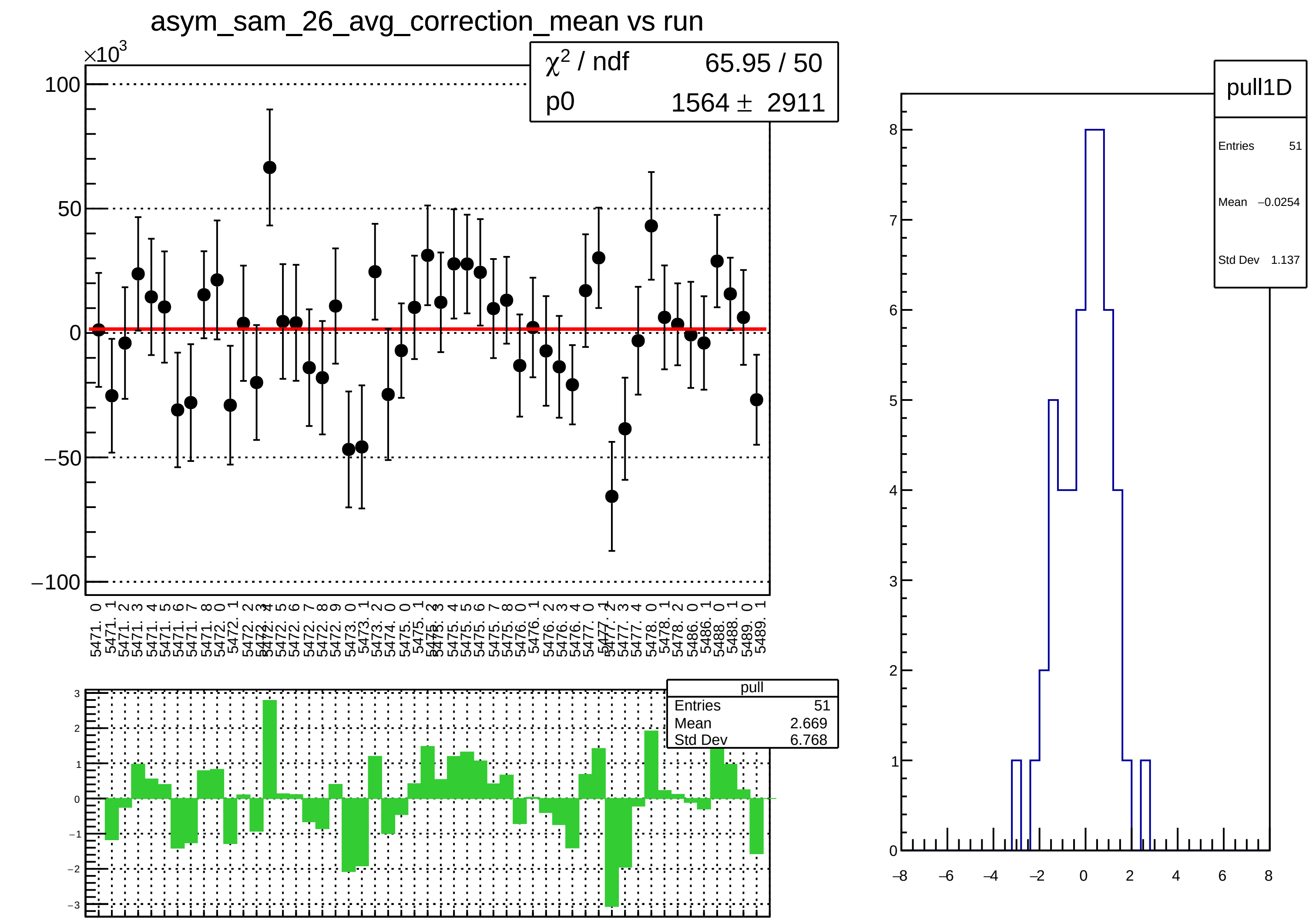

asym_sam_15_avg_rms vs run
χ2 / ndf 2.703e+04 / 50
p0 83.49 ± 0.08529
160
140
120
100
80
60



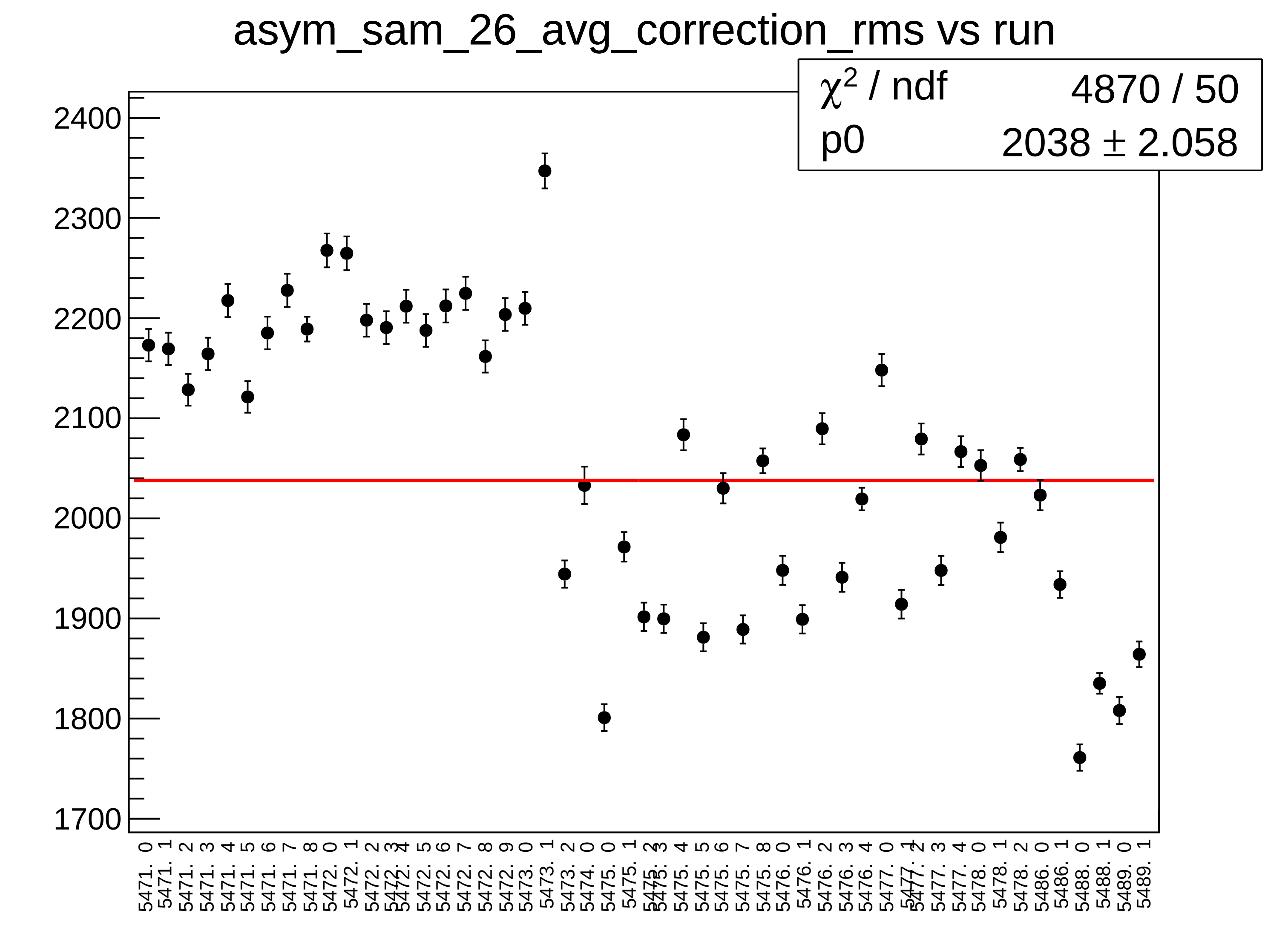
reg_asym_sam_26_avg_mean vs run
χ^2 / ndf 44.74 / 50
p0 −259.1 ± 288.1
pull1D
Entries 51
Mean −0.03353
Std Dev 0.9361
pull
Entries 51
Mean −98.12
Std Dev 121.3

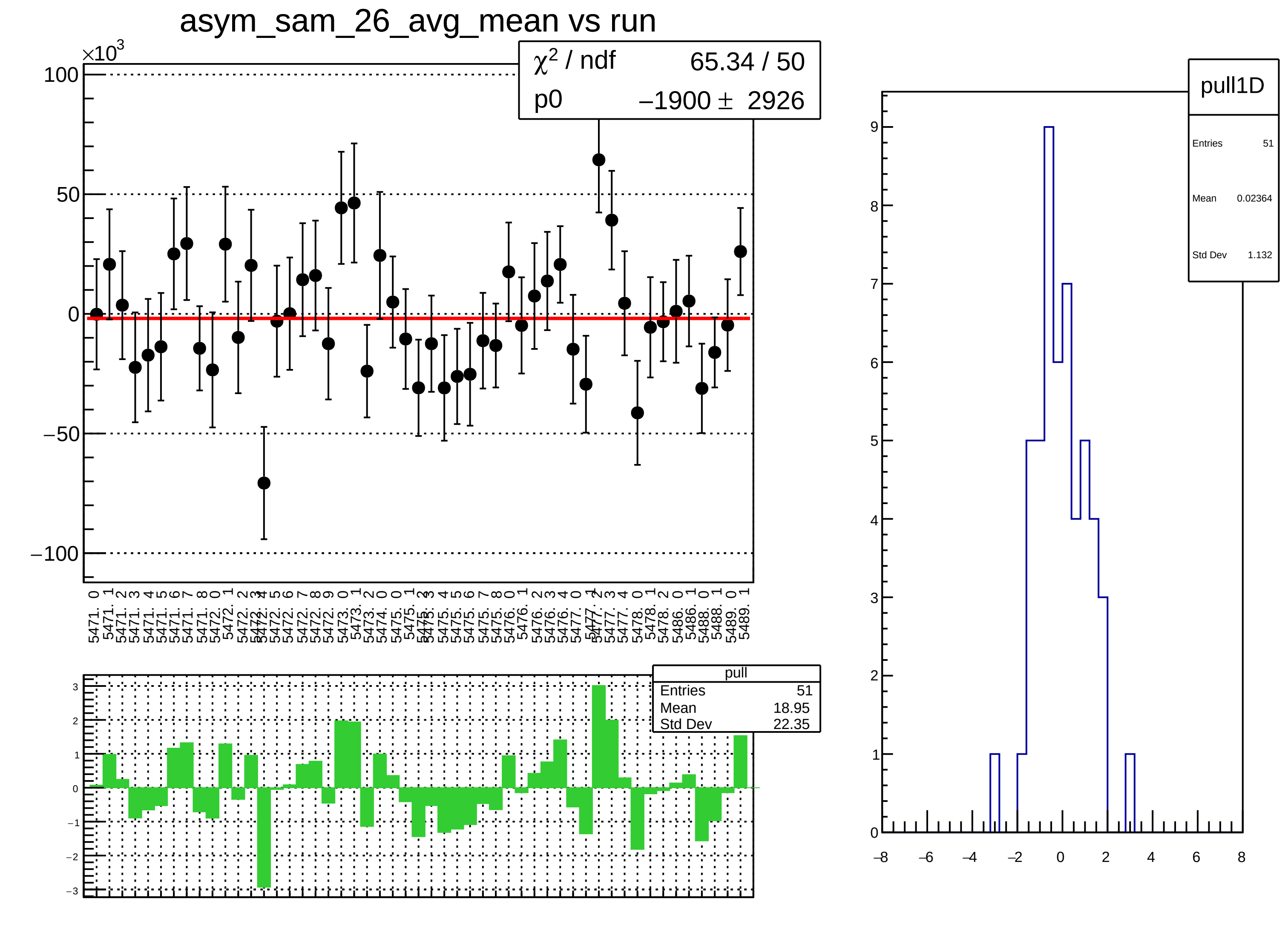


reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.349e+04 / 50
p0 199.8 ± 0.2037
260
240
220
200
180
160

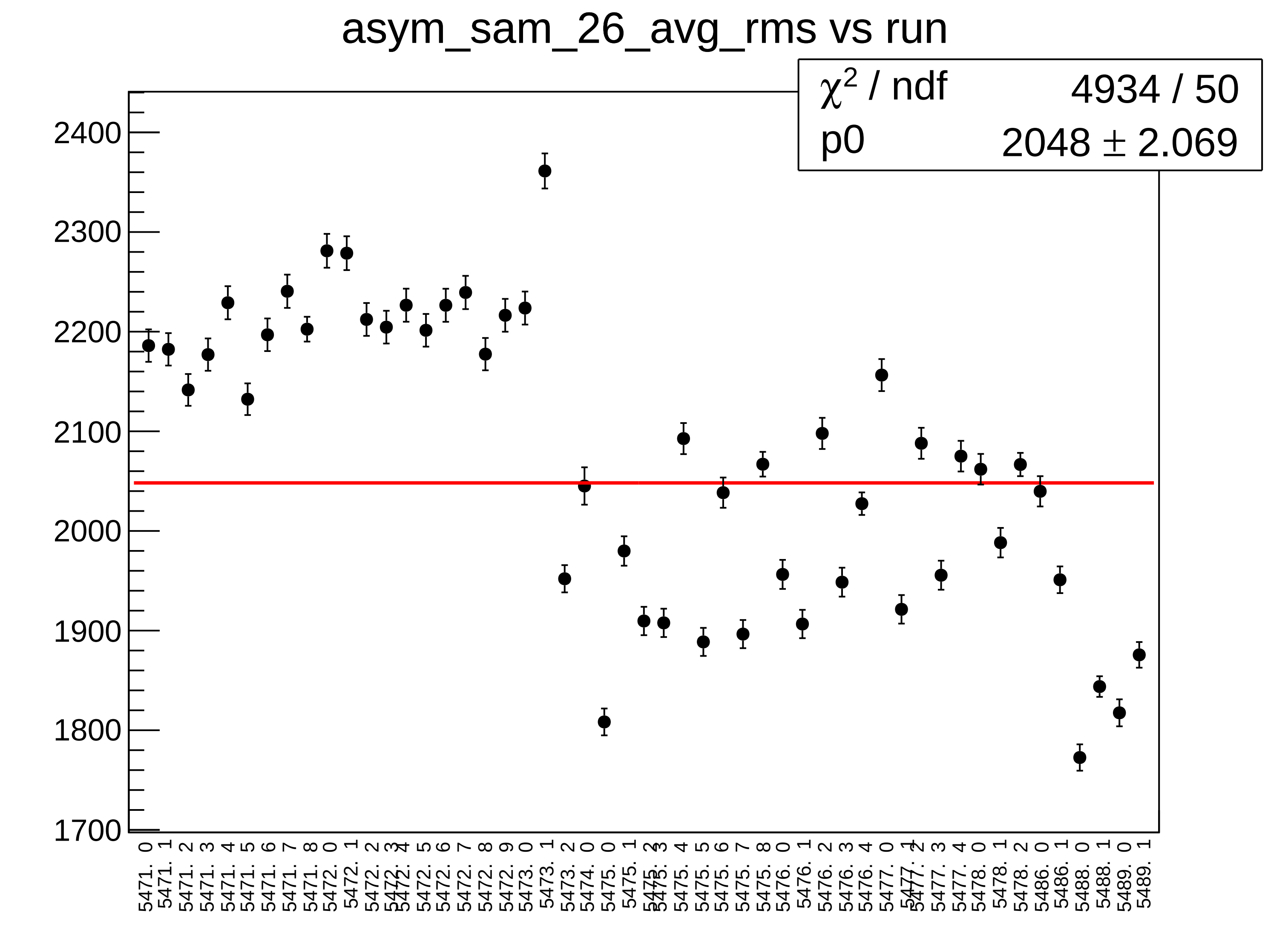


asym_sam_26_avg_correction_mean vs run
$\times 10^3$
χ^2 / ndf 65.95 / 50
p0 1564 ± 2911
pull
Entries 51
Mean 2.669
Std Dev 6.768
pull1D
Entries 51
Mean −0.0254
Std Dev 1.137

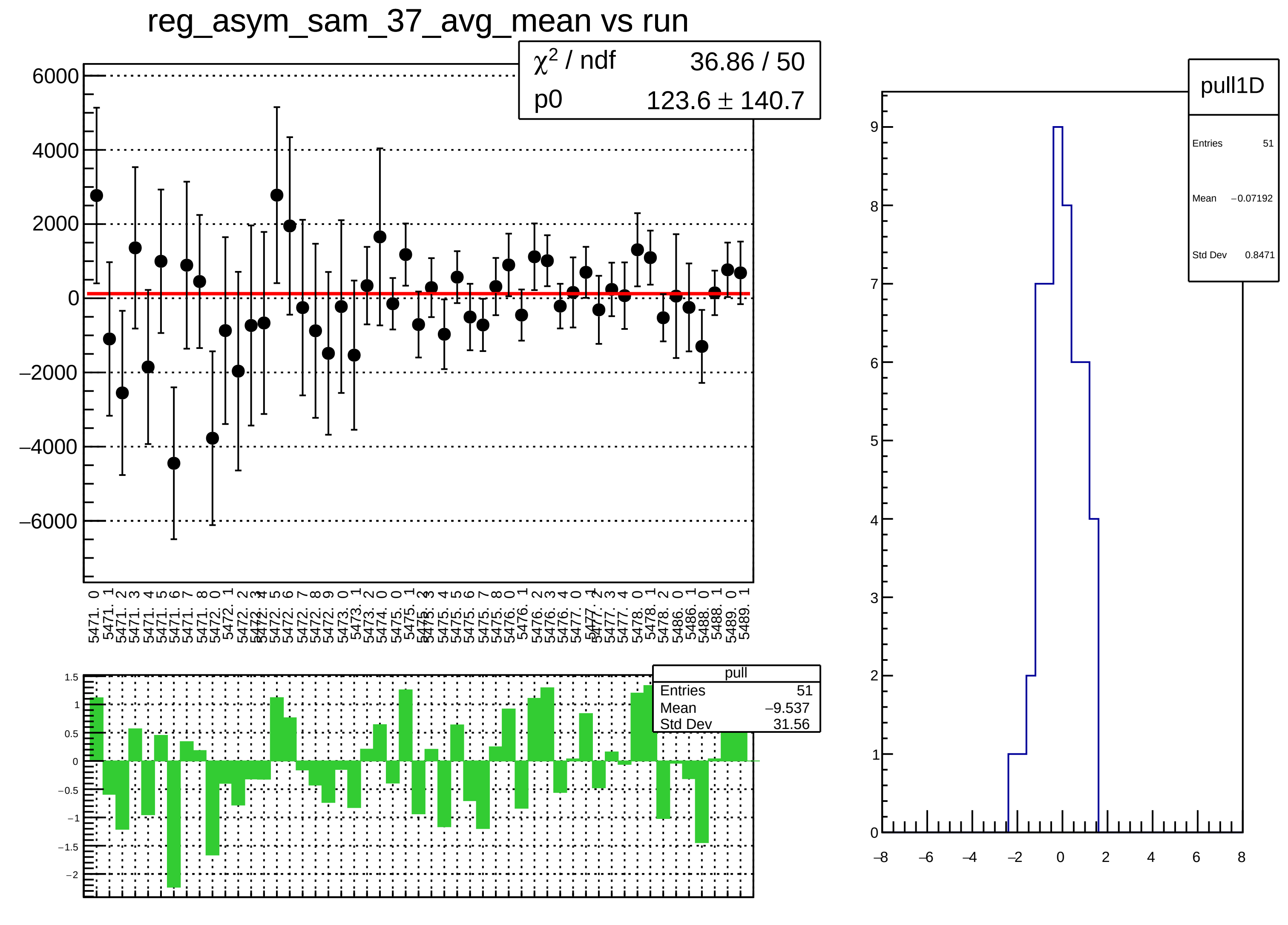

asym_sam_26_avg_correction_rms vs run
χ^2 / ndf 4870 / 50
p0 2038 ± 2.058
2400
2300
2200
2100
2000
1900
1800
1700



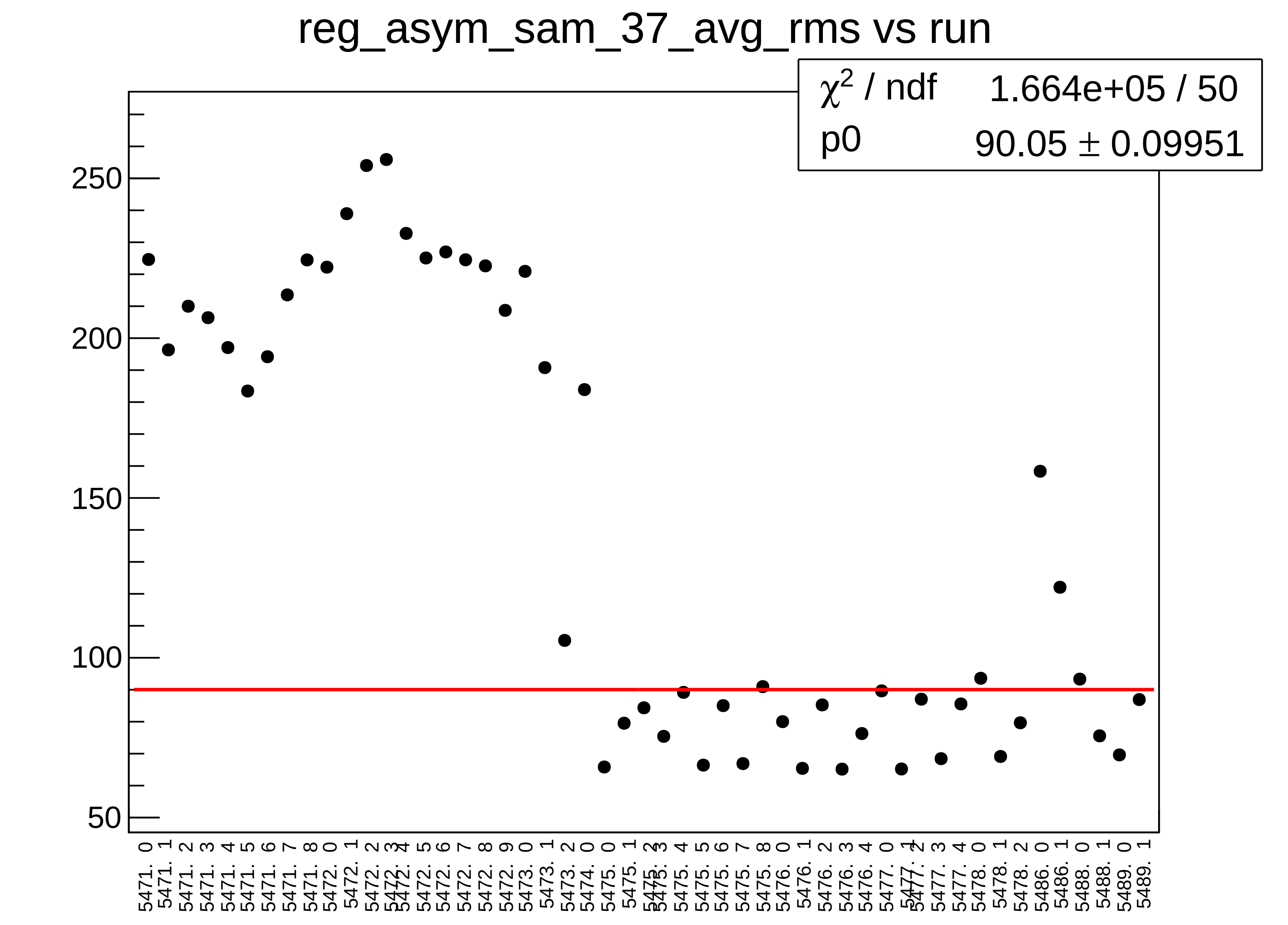
asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 65.34 / 50
p0 −1900 ± 2926
pull
Entries 51
Mean 18.95
Std Dev 22.35
pull1D
Entries 51
Mean 0.02364
Std Dev 1.132



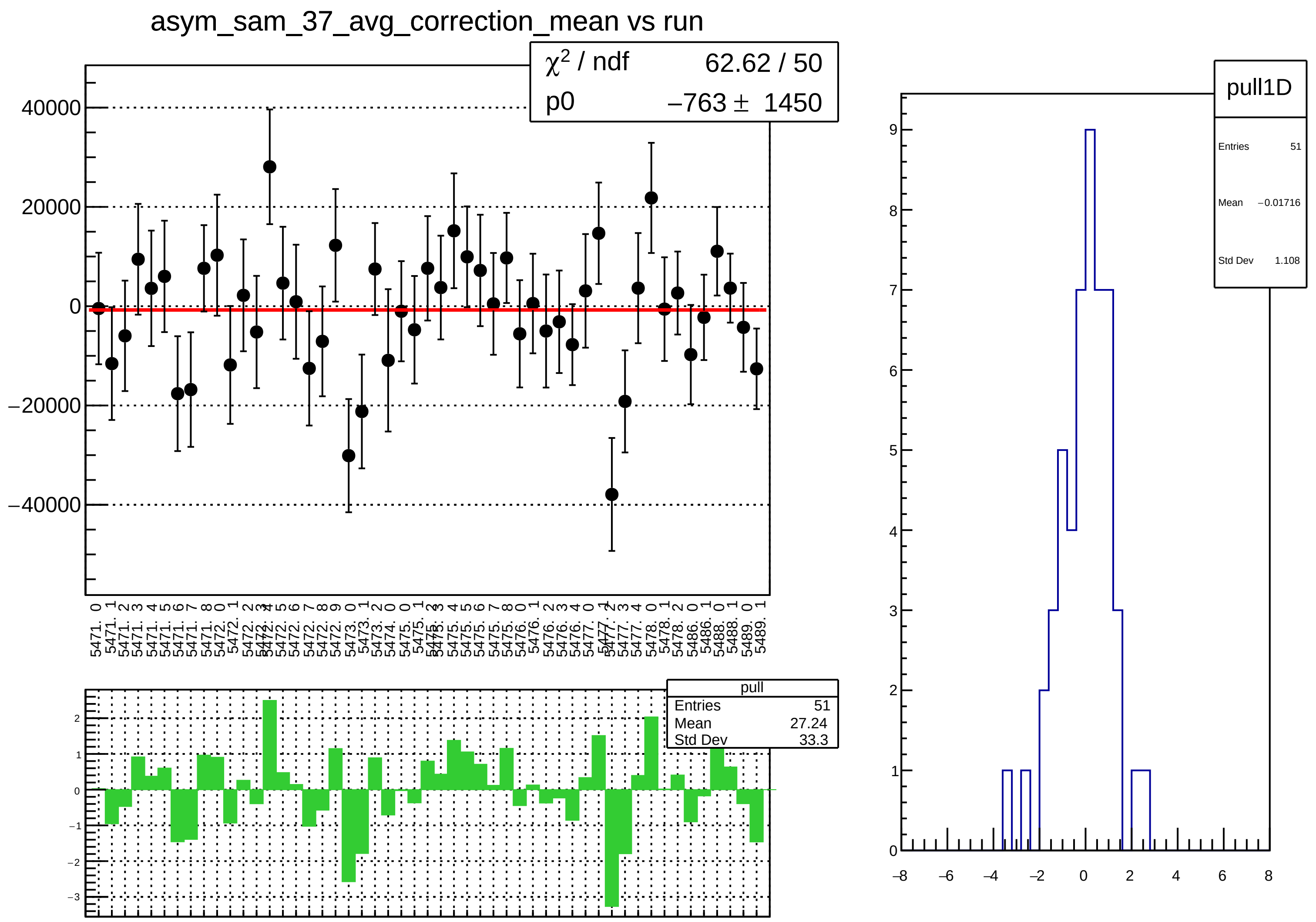
asym_sam_26_avg_rms vs run
χ2 / ndf 4934 / 50
p0 2048 ± 2.069
2400
2300
2200
2100
2000
1900
1800
1700



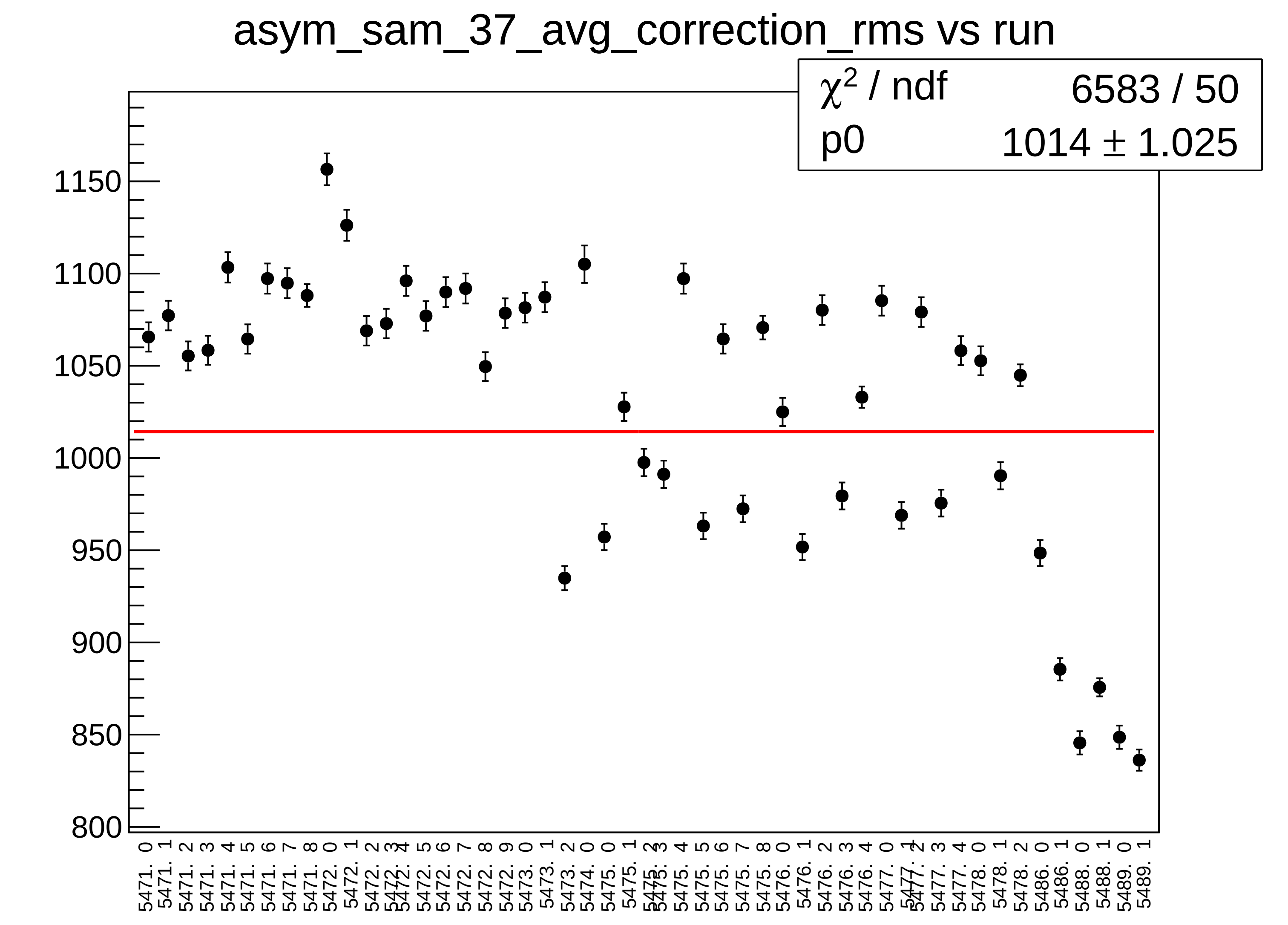
reg_asym_sam_37_avg_mean vs run
χ^2 / ndf 36.86 / 50
p0 123.6 ± 140.7
pull
Entries 51
Mean −9.537
Std Dev 31.56
pull1D
Entries 51
Mean −0.07192
Std Dev 0.8471



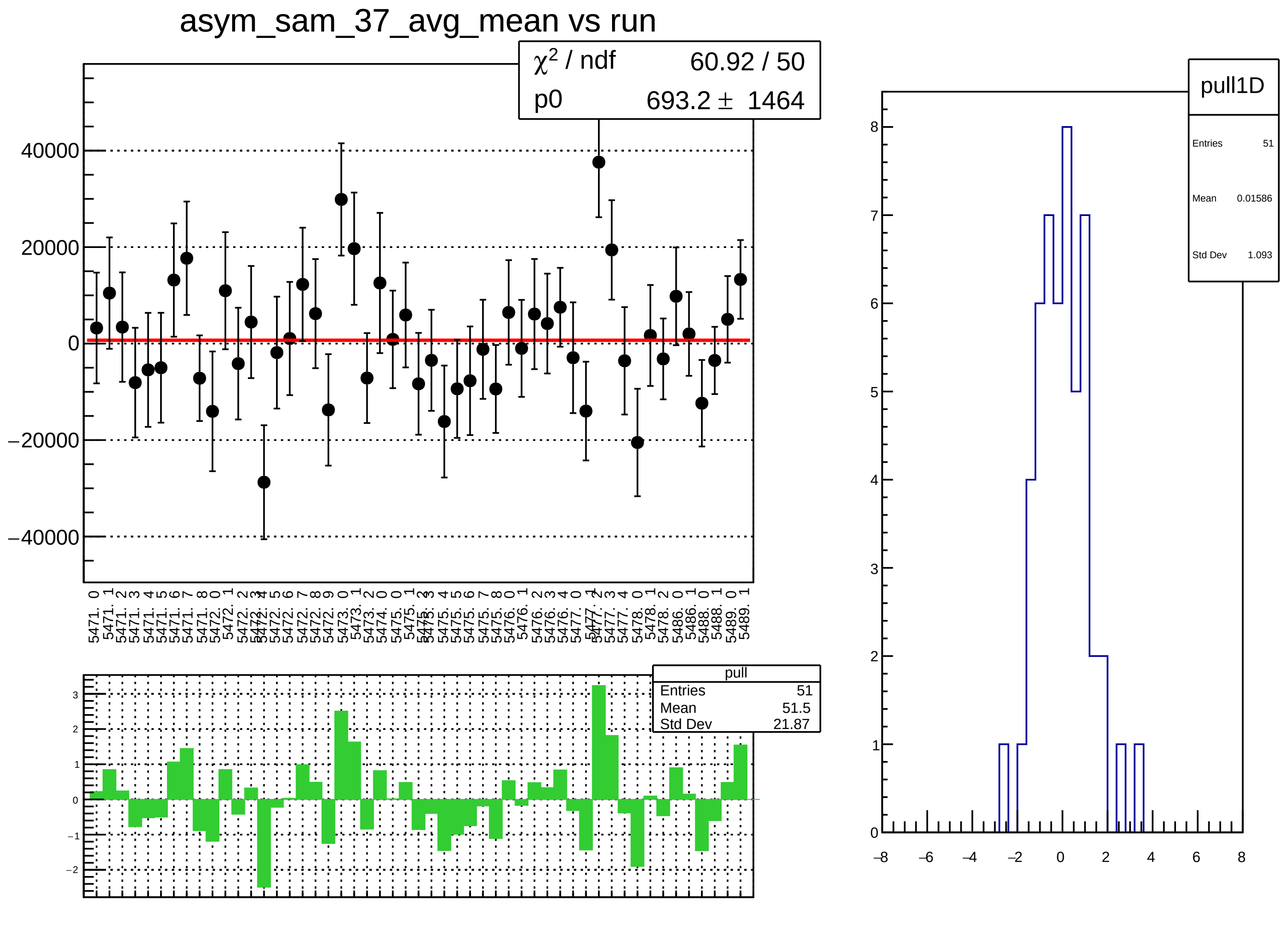
reg_asym_sam_37_avg_rms vs run
χ2 / ndf 1.664e+05 / 50
p0 90.05 ± 0.09951
250
200
150
100
50



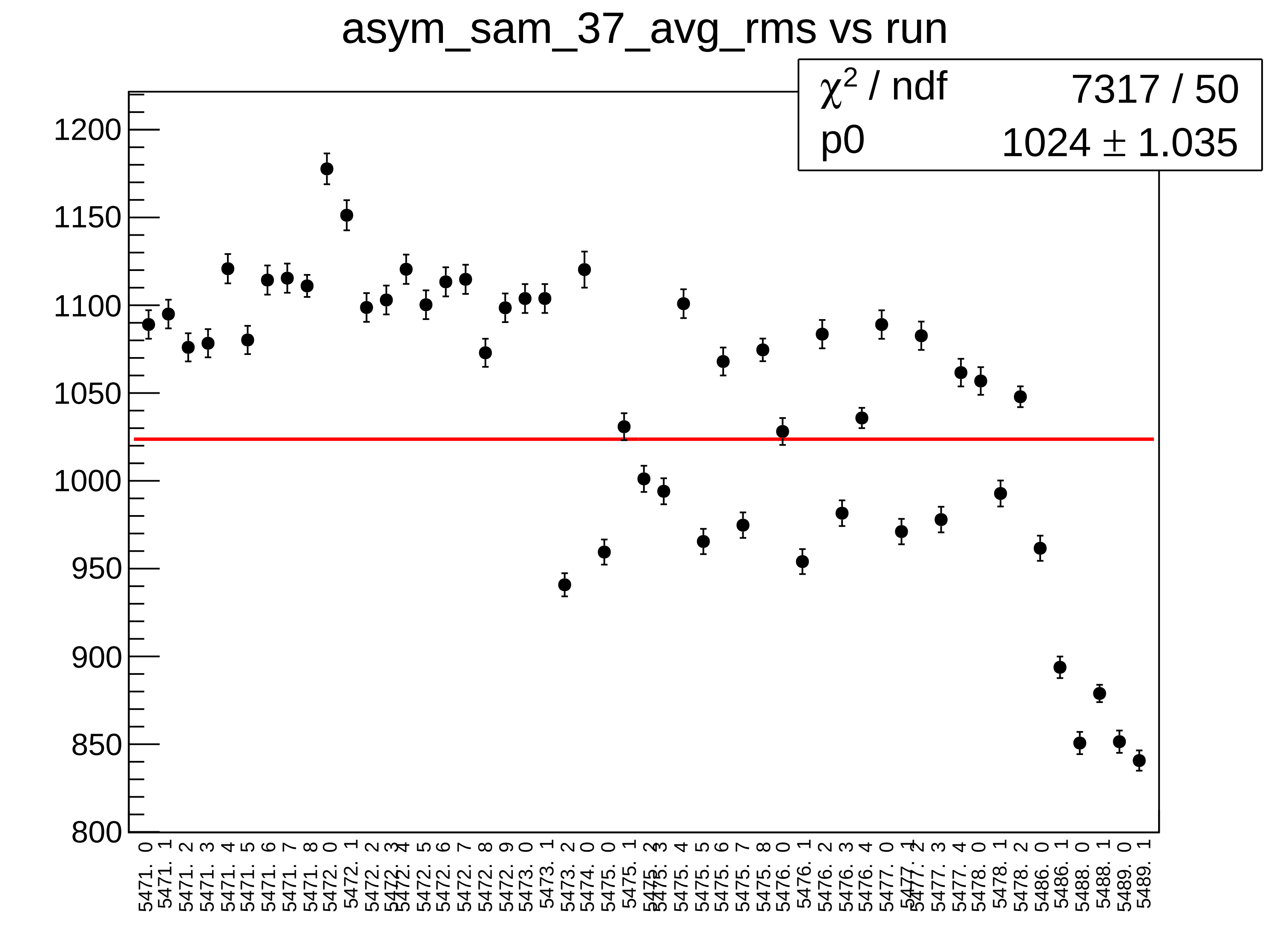
asym_sam_37_avg_correction_mean vs run
χ^2 / ndf 62.62 / 50
p0 −763 ± 1450
pull
Entries 51
Mean 27.24
Std Dev 33.3
pull1D
Entries 51
Mean −0.01716
Std Dev 1.108

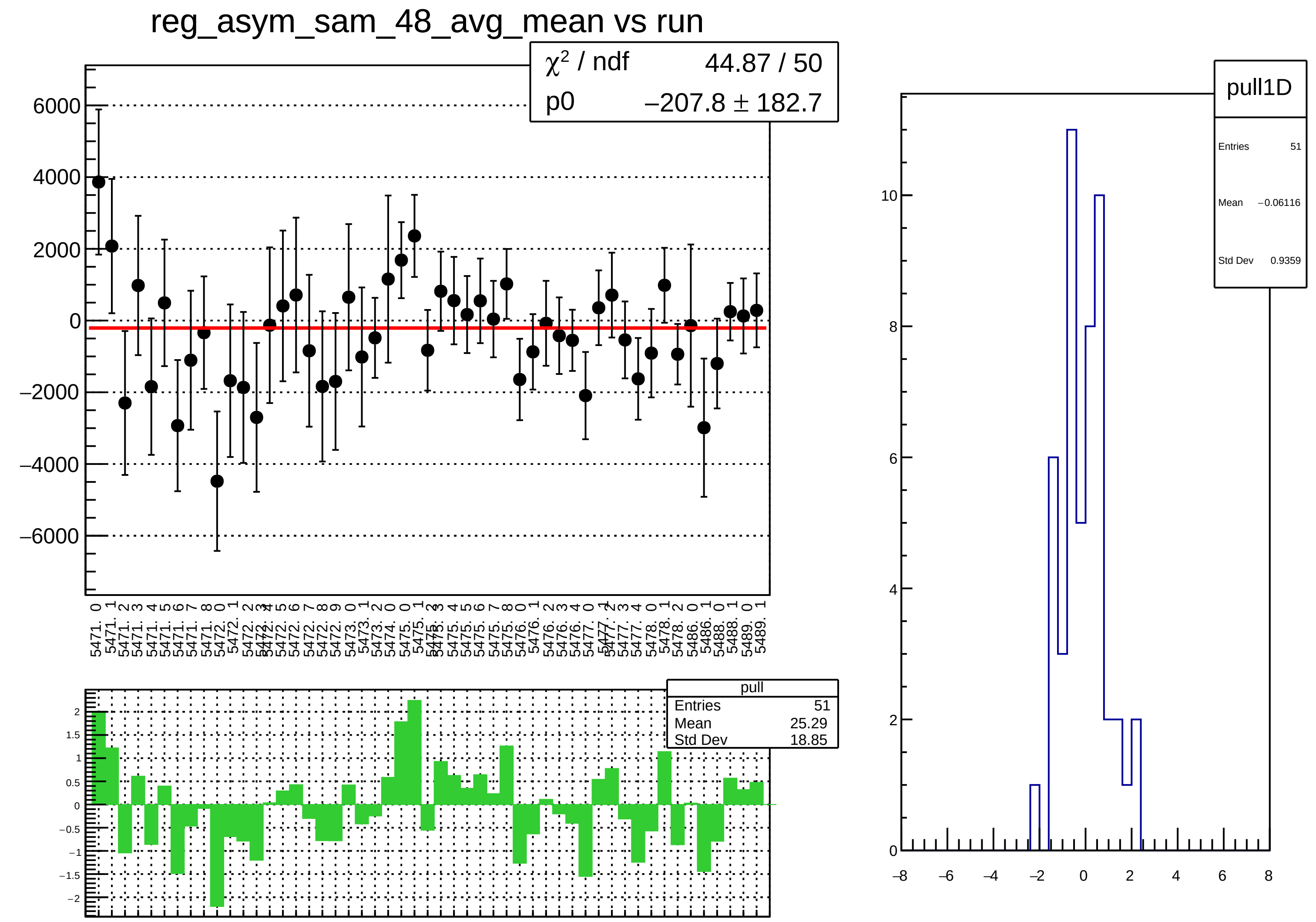


asym_sam_37_avg_correction_rms vs run
χ2 / ndf 6583 / 50
p0 1014 ± 1.025
1150
1100
1050
1000
950
900
850
800

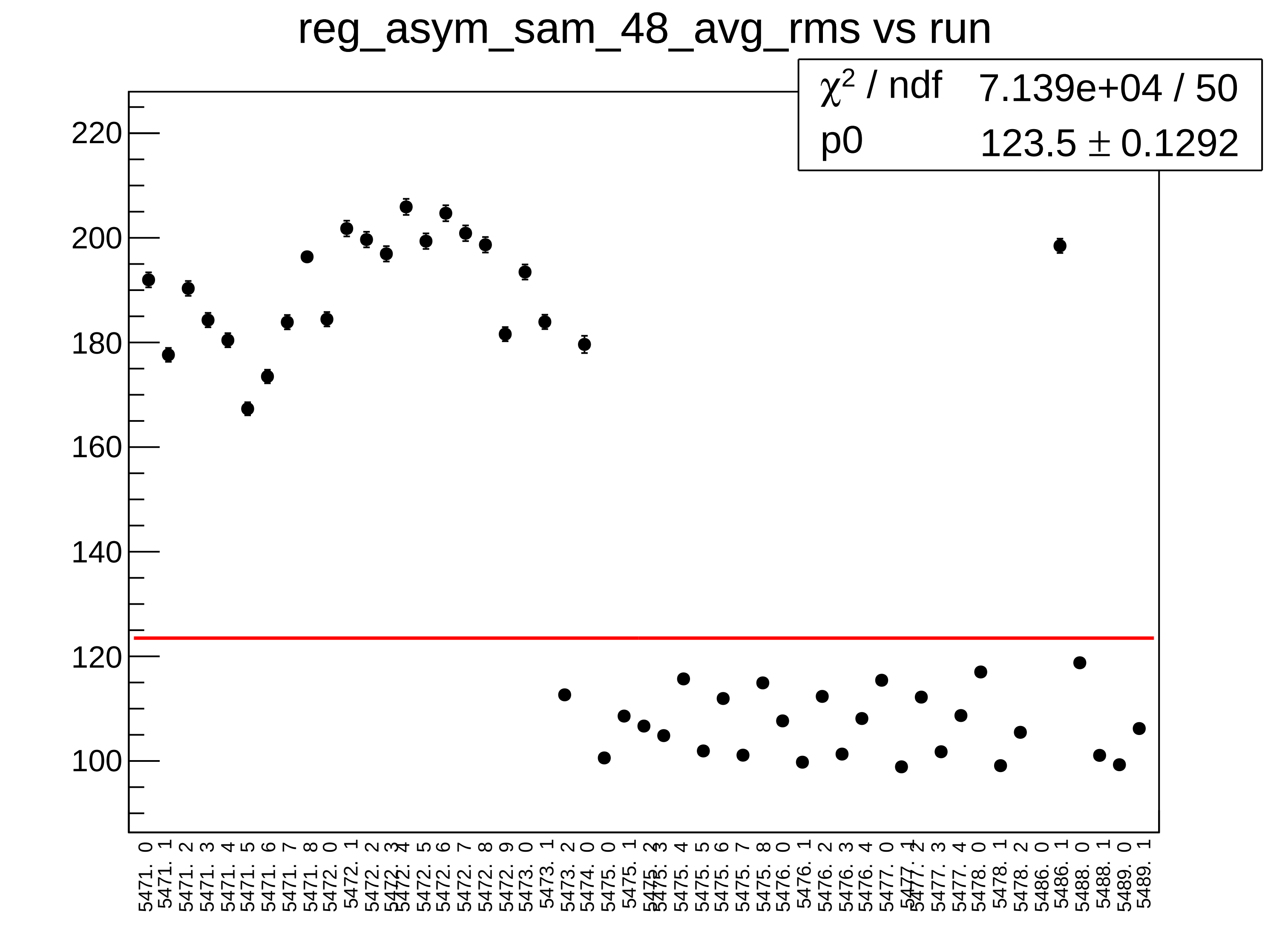


asym_sam_37_avg_mean vs run
χ^2 / ndf 60.92 / 50
p0 693.2 ± 1464
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 51.5
Std Dev 21.87
pull1D
Entries 51
Mean 0.01586
Std Dev 1.093

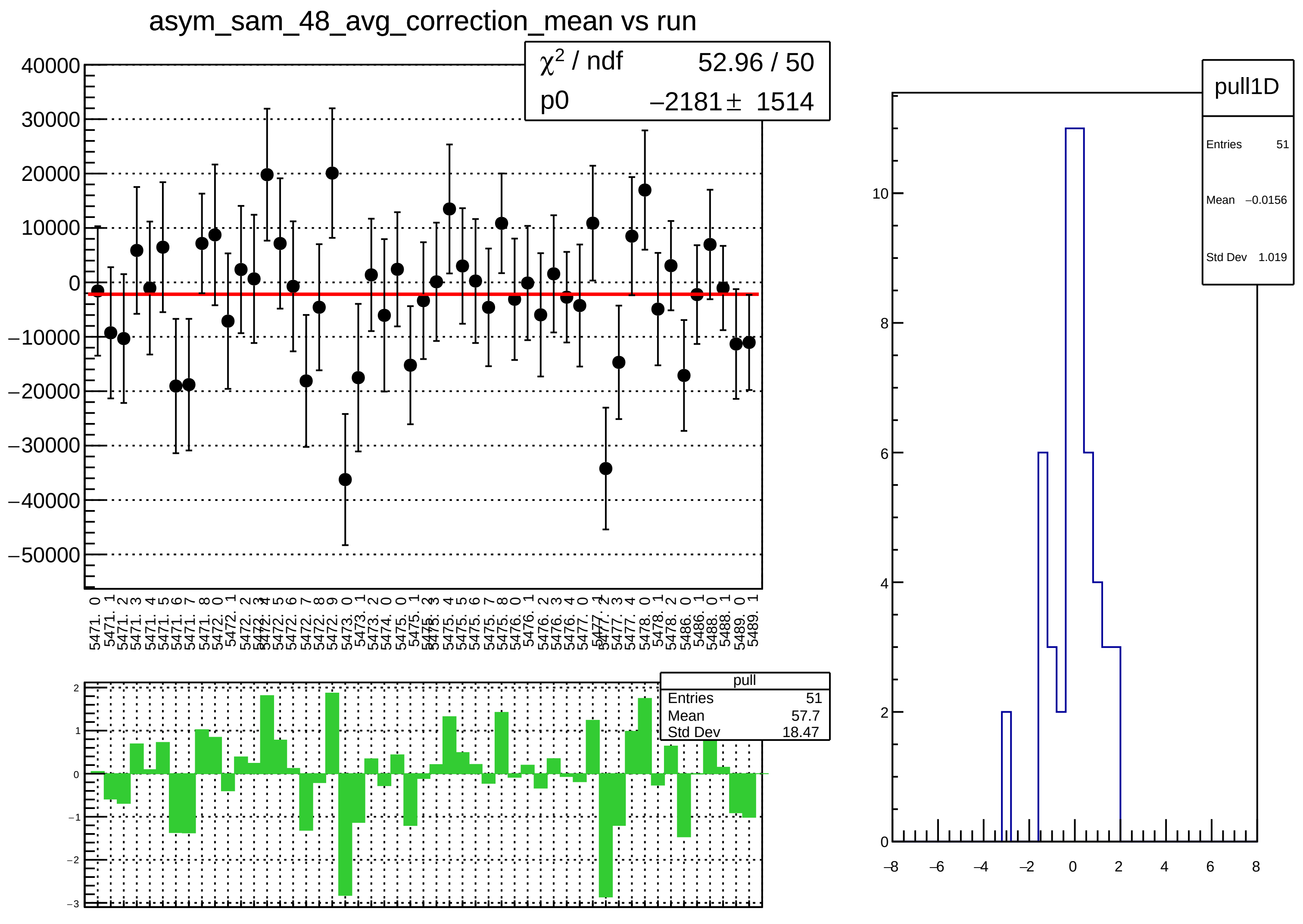

asym_sam_37_avg_rms vs run
χ2 / ndf 7317 / 50
p0 1024 ± 1.035
1200
1150
1100
1050
1000
950
900
850
800



reg_asym_sam_48_avg_mean vs run
χ^2 / ndf 44.87 / 50
p0 −207.8 ± 182.7
pull
Entries 51
Mean 25.29
Std Dev 18.85
pull1D
Entries 51
Mean −0.06116
Std Dev 0.9359

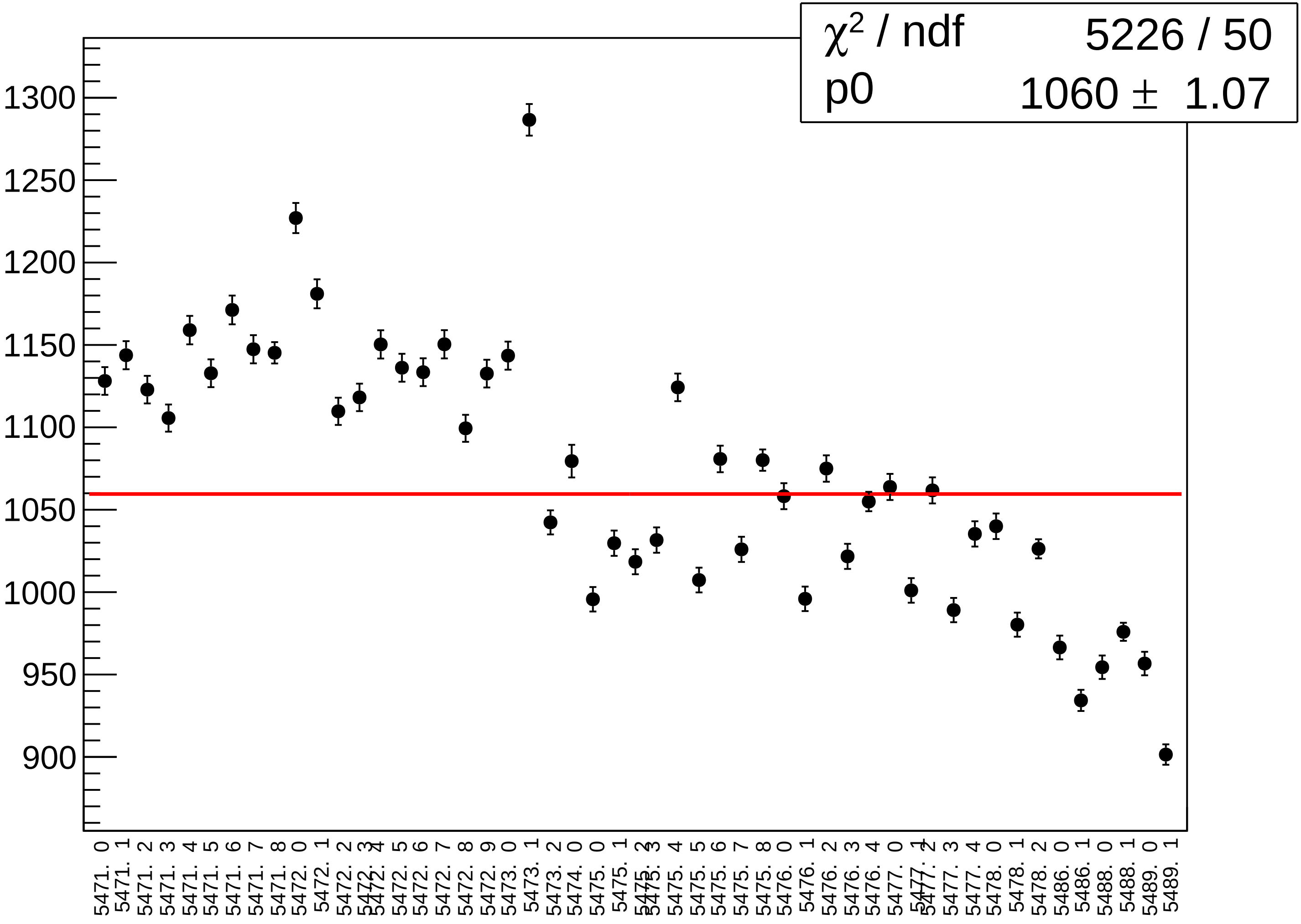


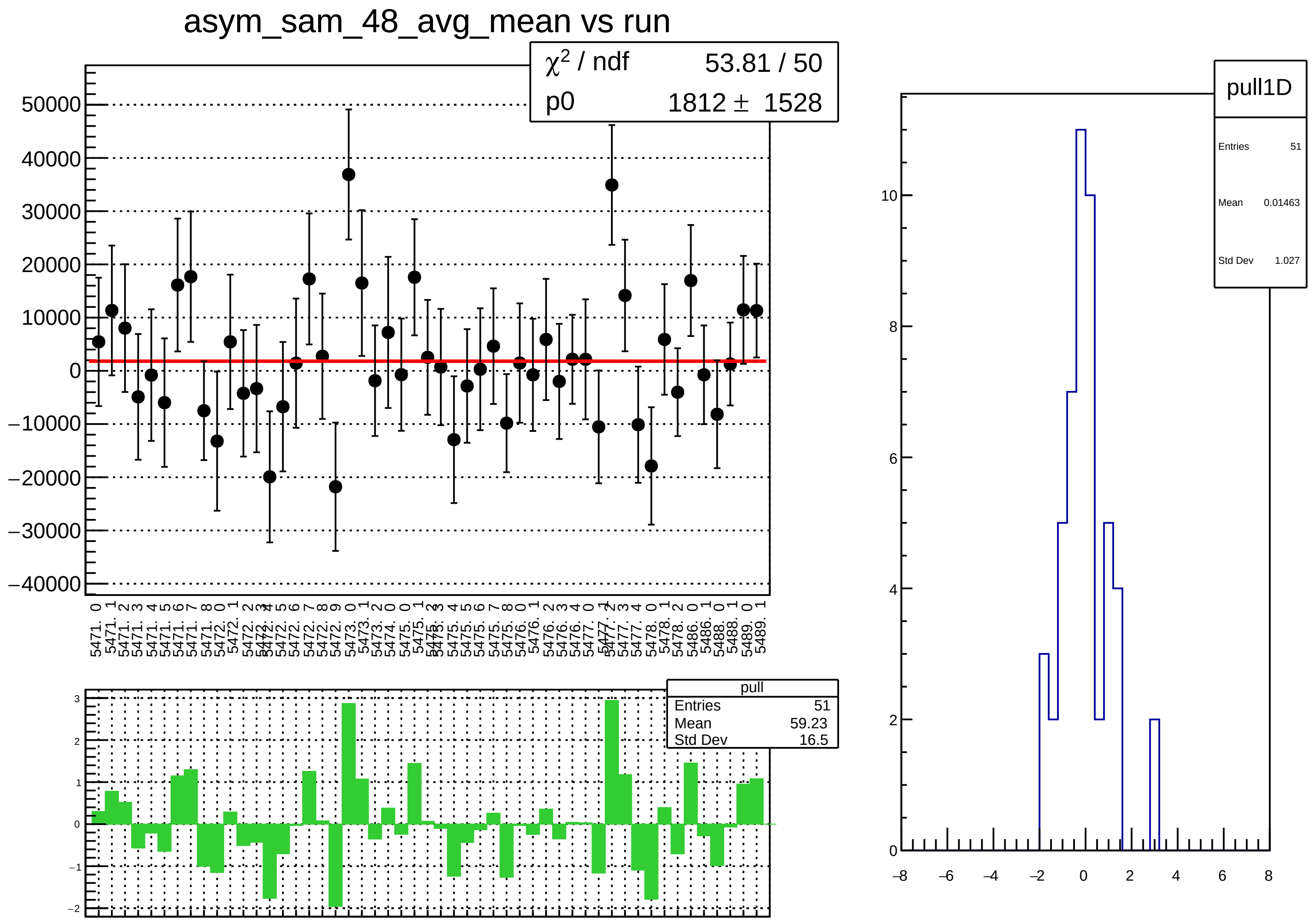
reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 7.139e+04 / 50
p0 123.5 ± 0.1292
220
200
180
160
140
120
100

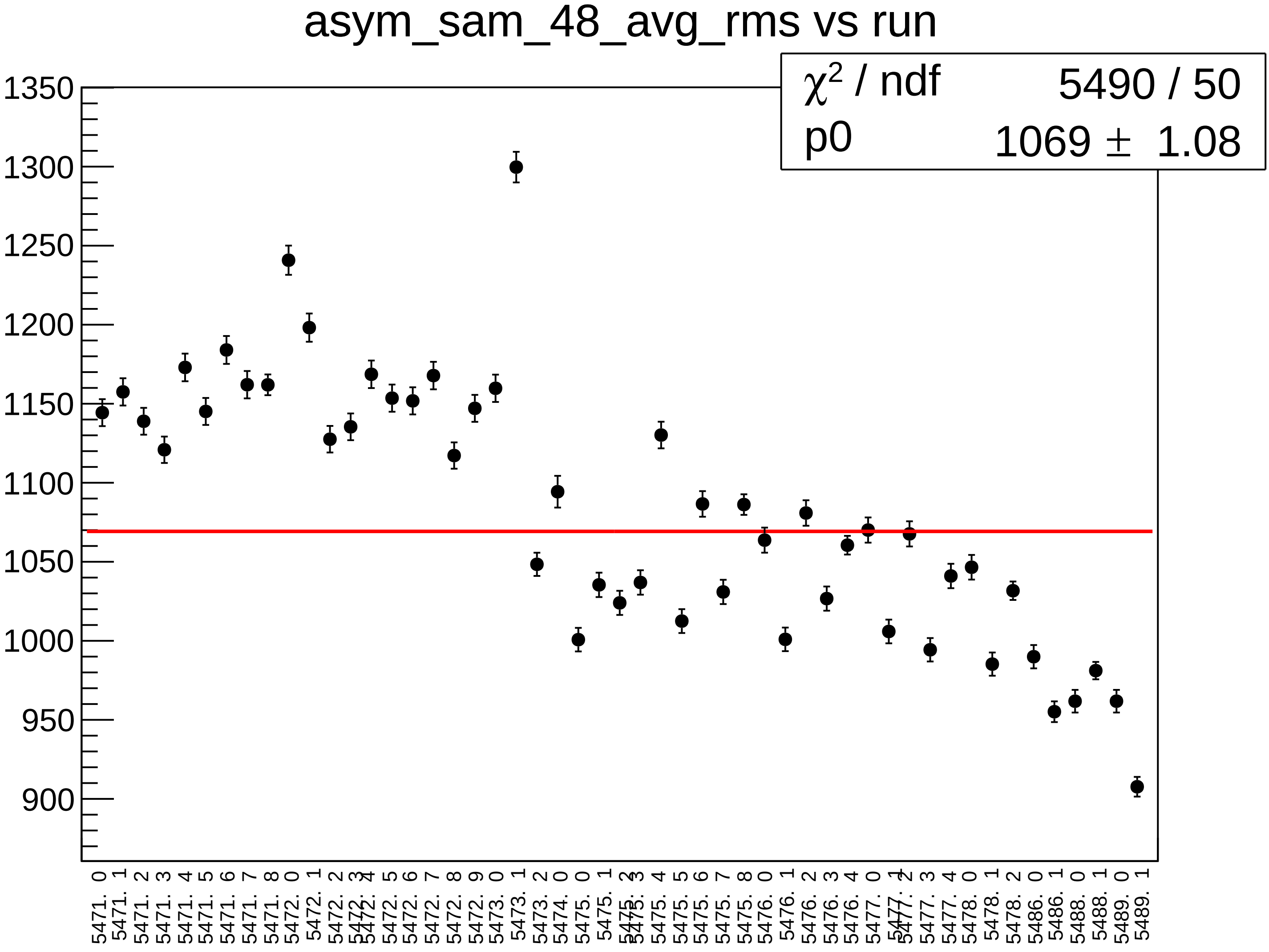


asym_sam_48_avg_correction_mean vs run
χ2 / ndf 52.96 / 50
p0 −2181 ± 1514
pull
Entries 51
Mean 57.7
Std Dev 18.47
pull1D
Entries 51
Mean −0.0156
Std Dev 1.019

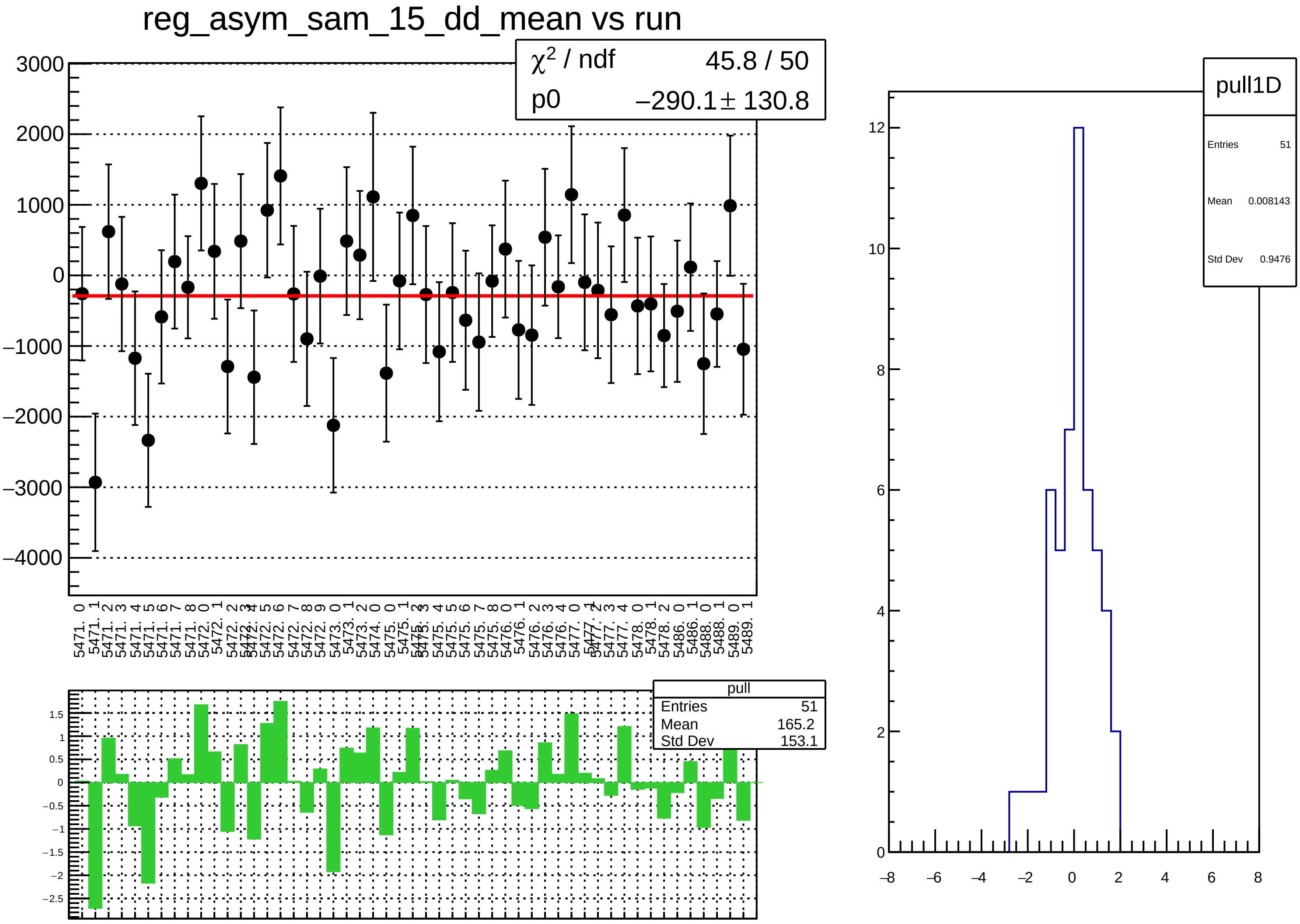
asym_sam_48_avg_correction_rms vs run



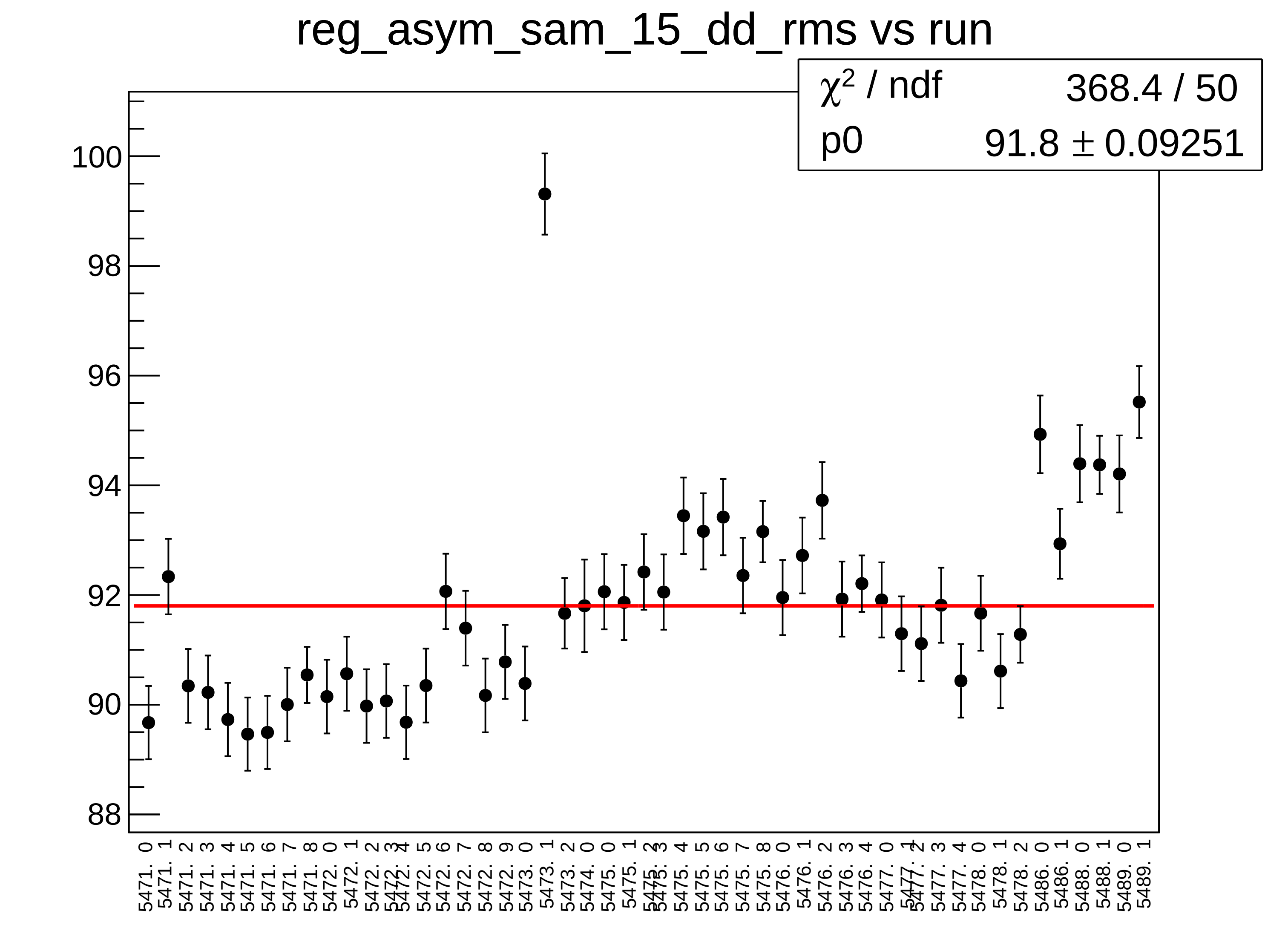

asym_sam_48_avg_mean vs run
χ2 / ndf 53.81 / 50
p0 1812 ± 1528
pull
Entries 51
Mean 59.23
Std Dev 16.5
pull1D
Entries 51
Mean 0.01463
Std Dev 1.027

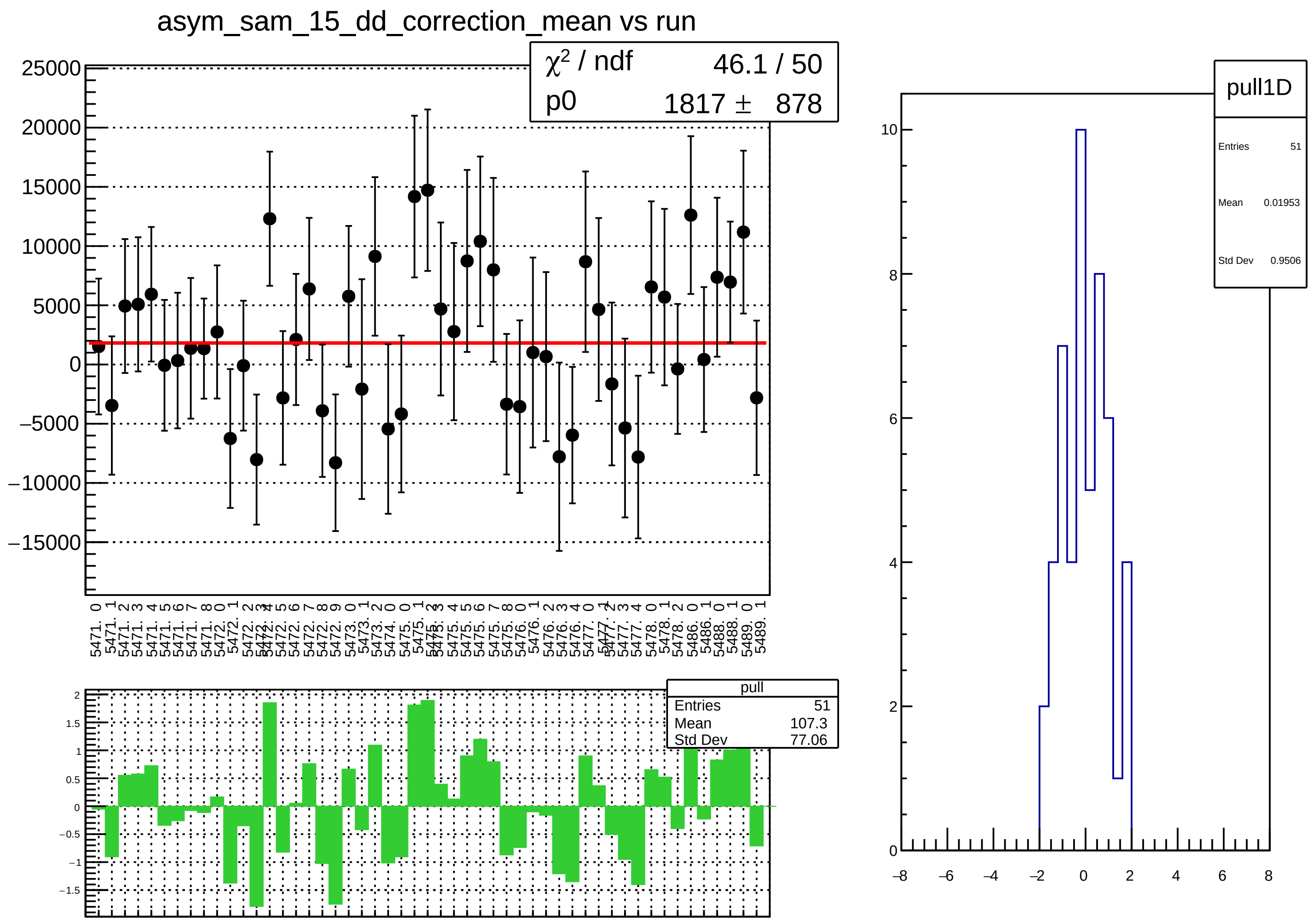


asym_sam_48_avg_rms vs run
χ2 / ndf 5490 / 50
p0 1069 ± 1.08
1350
1300
1250
1200
1150
1100
1050
1000
950
900
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

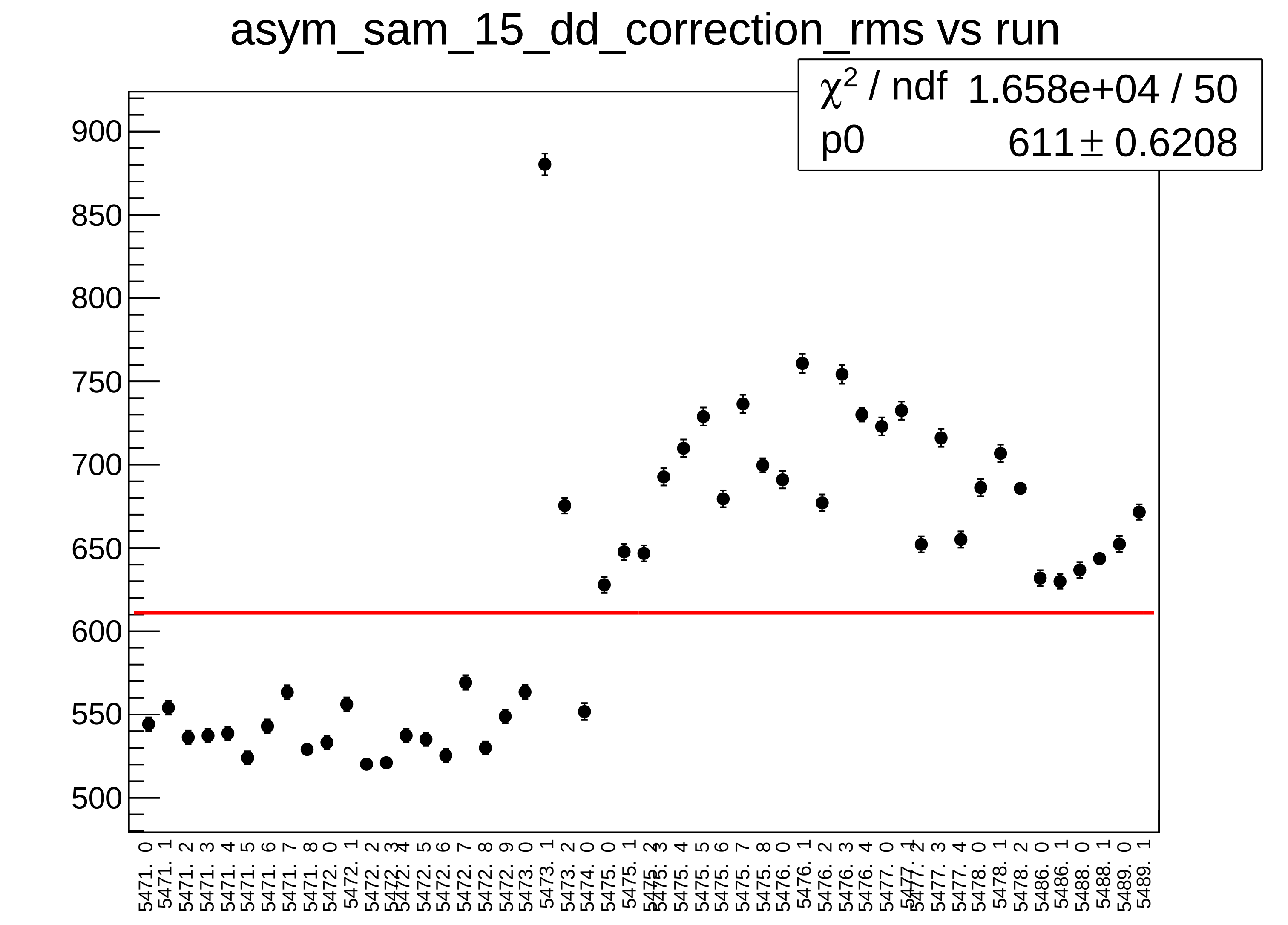


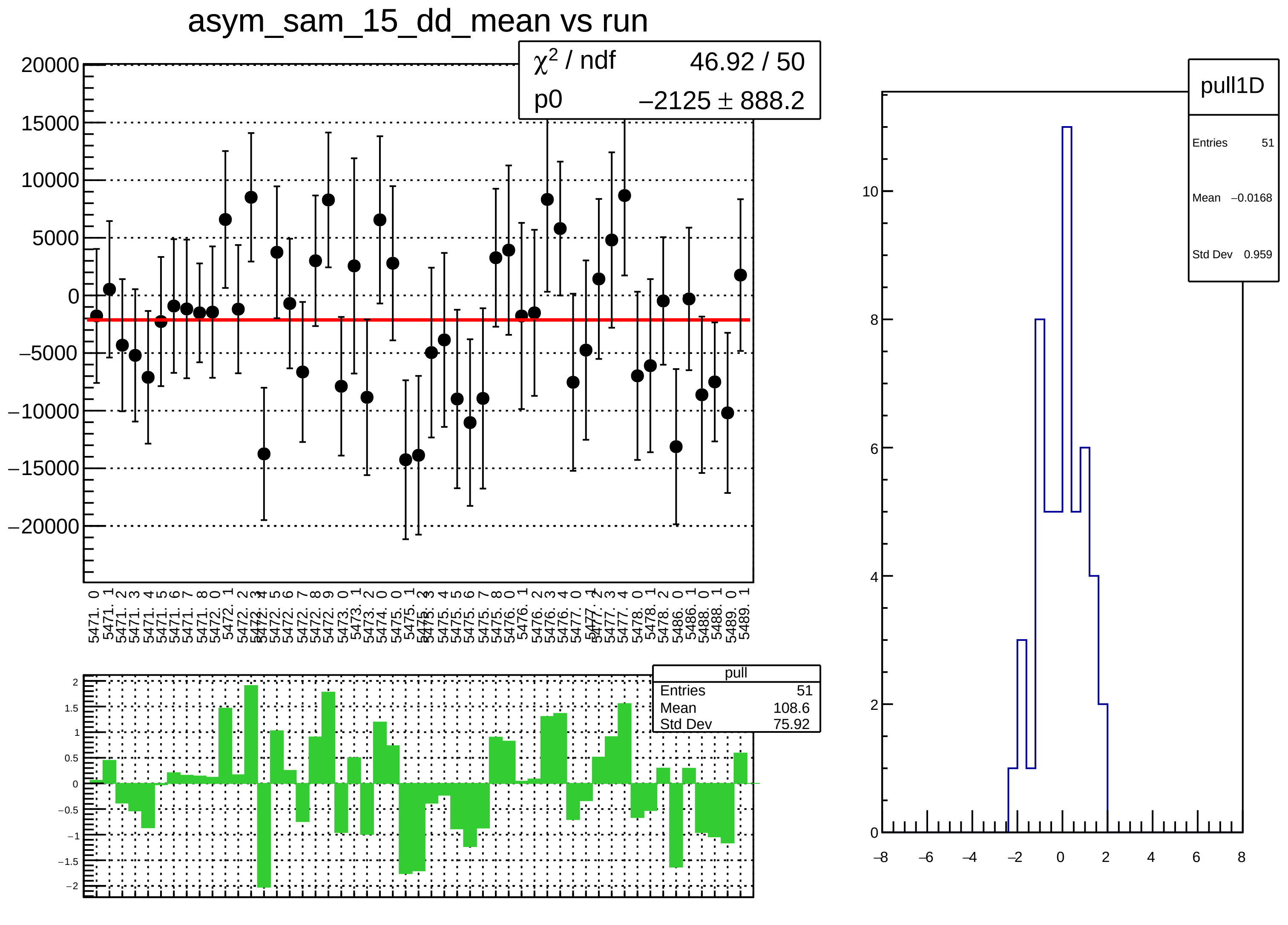
reg_asym_sam_15_dd_mean vs run
χ2 / ndf 45.8 / 50
p0 −290.1 ± 130.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 165.2
Std Dev 153.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 51
Mean 0.008143
Std Dev 0.9476
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

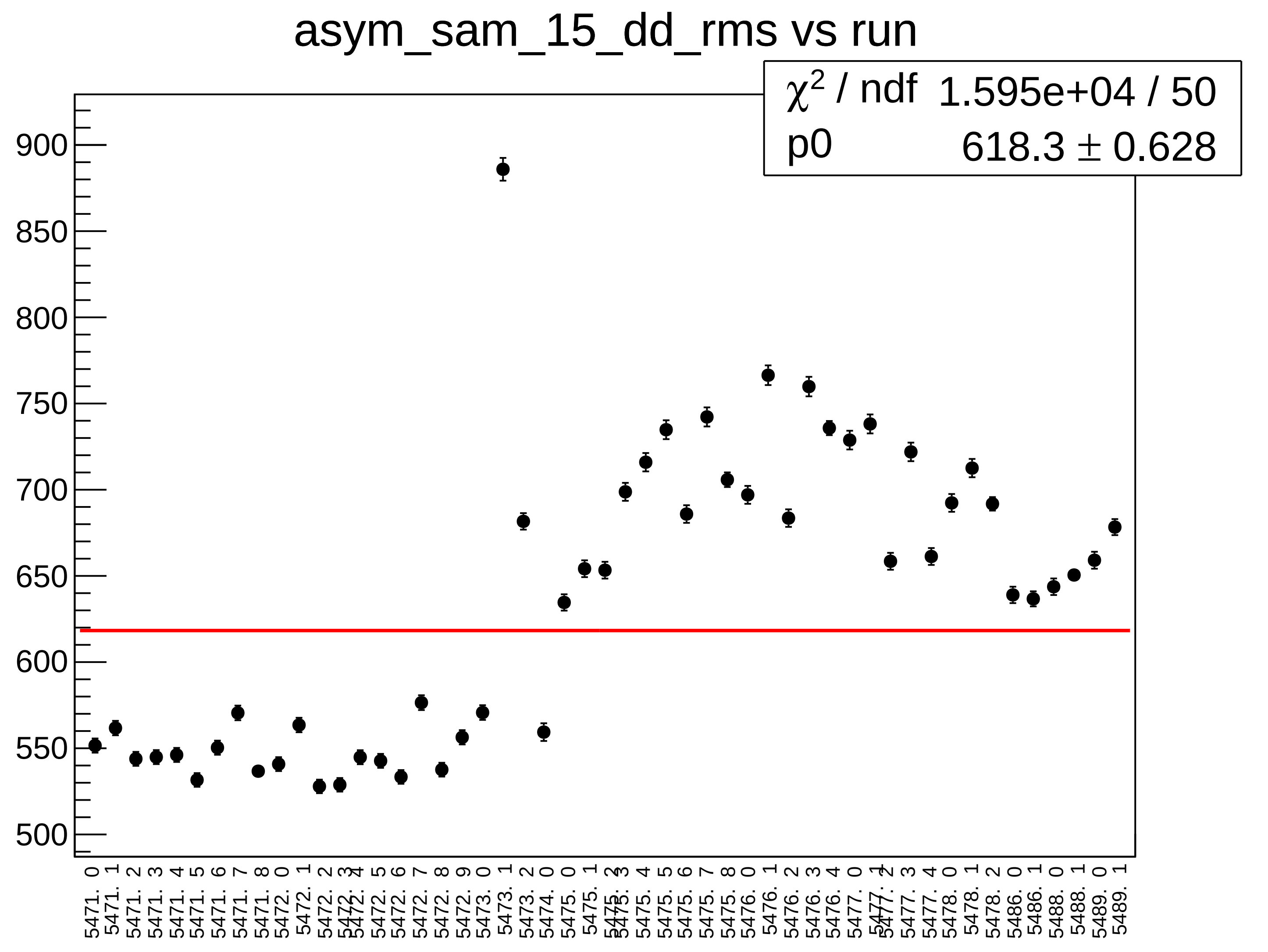

reg_asym_sam_15_dd_rms vs run
χ2 / ndf 368.4 / 50
p0 91.8 ± 0.09251
100
98
96
94
92
90
88



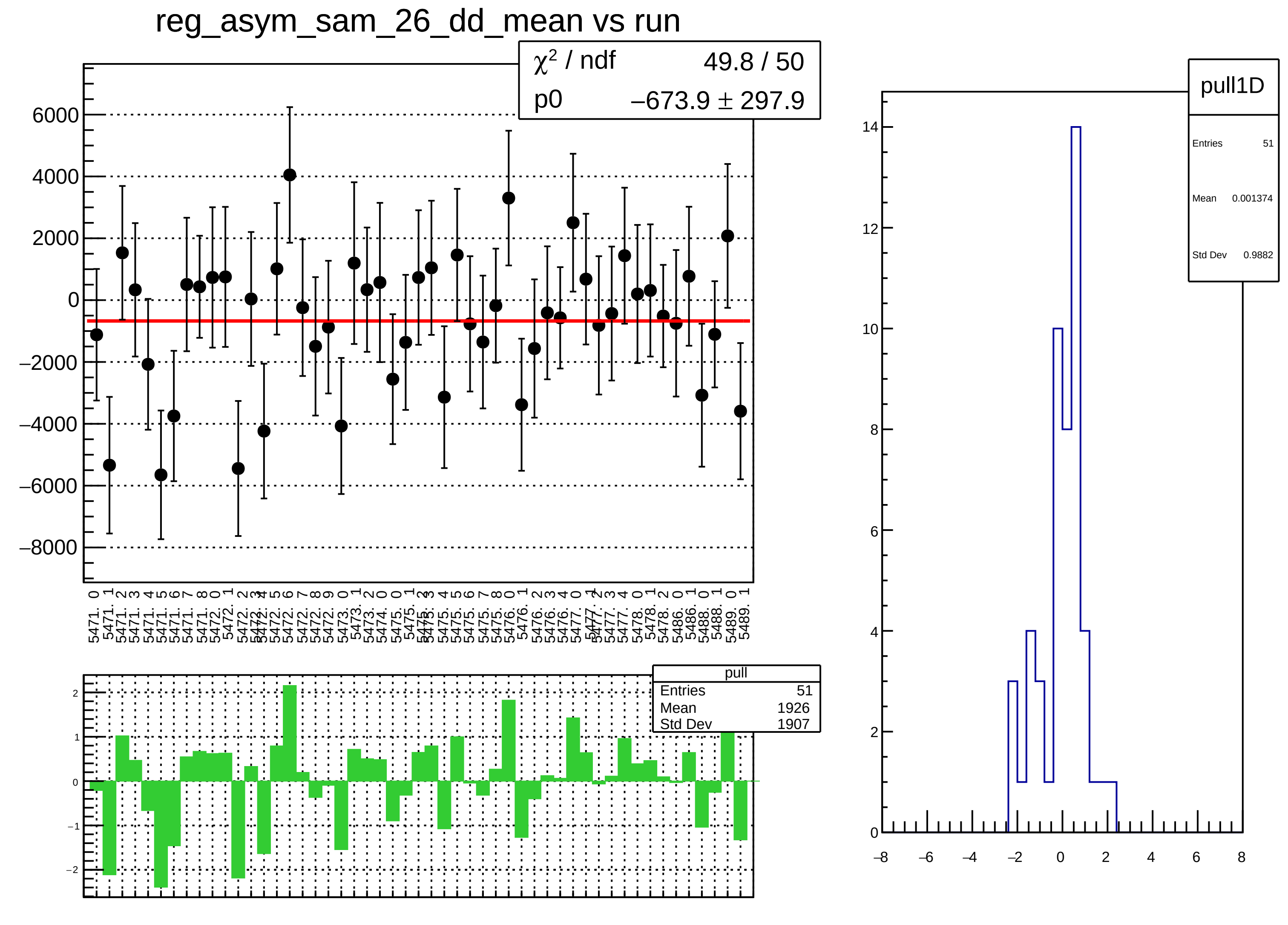
asym_sam_15_dd_correction_mean vs run
χ^2 / ndf 46.1 / 50
p0 1817 ± 878
pull
Entries 51
Mean 107.3
Std Dev 77.06
pull1D
Entries 51
Mean 0.01953
Std Dev 0.9506


asym_sam_15_dd_correction_rms vs run
χ^2 / ndf 1.658e+04 / 50
p0 611 ± 0.6208
900
850
800
750
700
650
600
550
500
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1

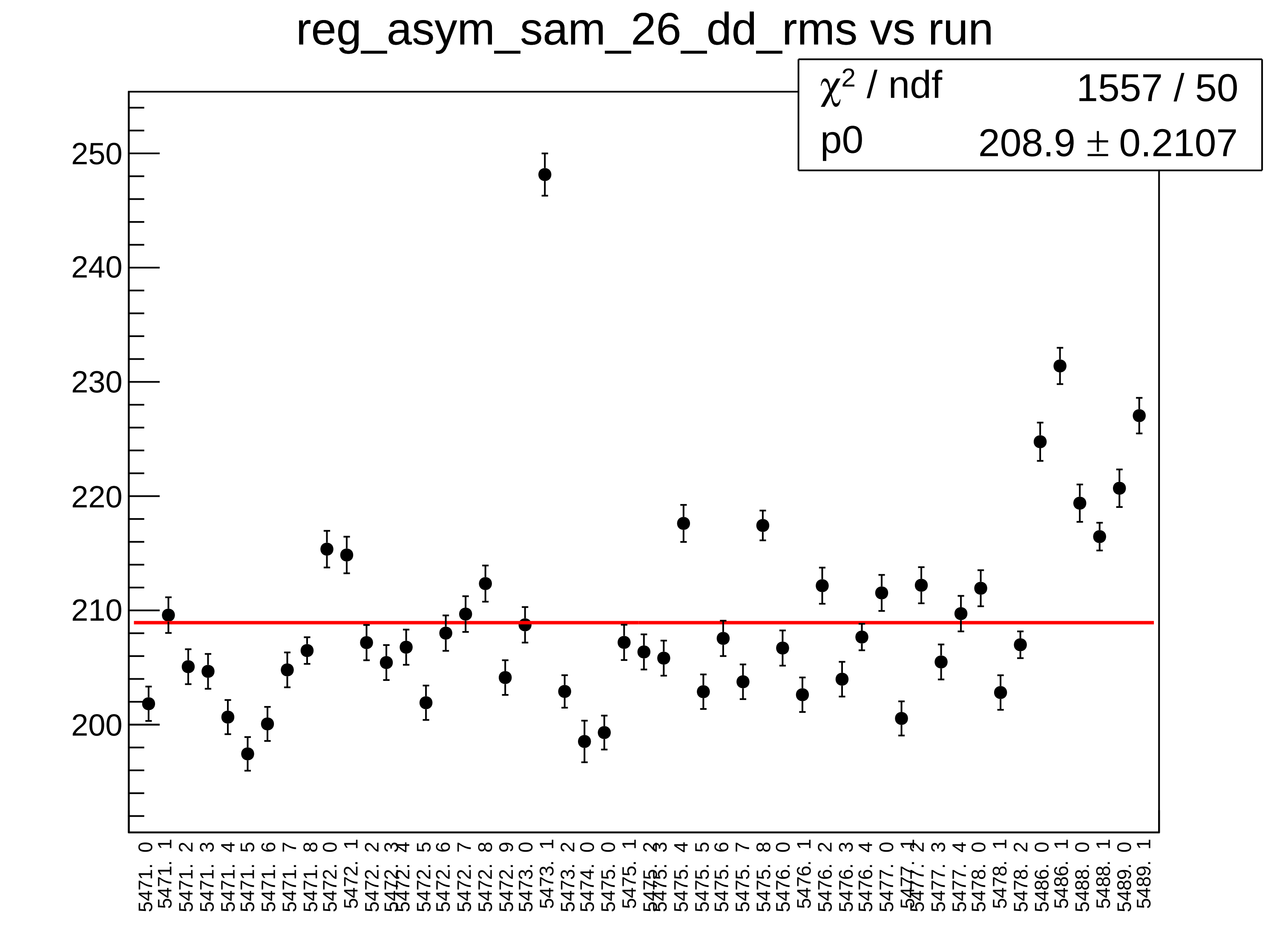

asym_sam_15_dd_mean vs run
χ^2 / ndf 46.92 / 50
p0 −2125 ± 888.2
pull
Entries 51
Mean 108.6
Std Dev 75.92
pull1D
Entries 51
Mean −0.0168
Std Dev 0.959



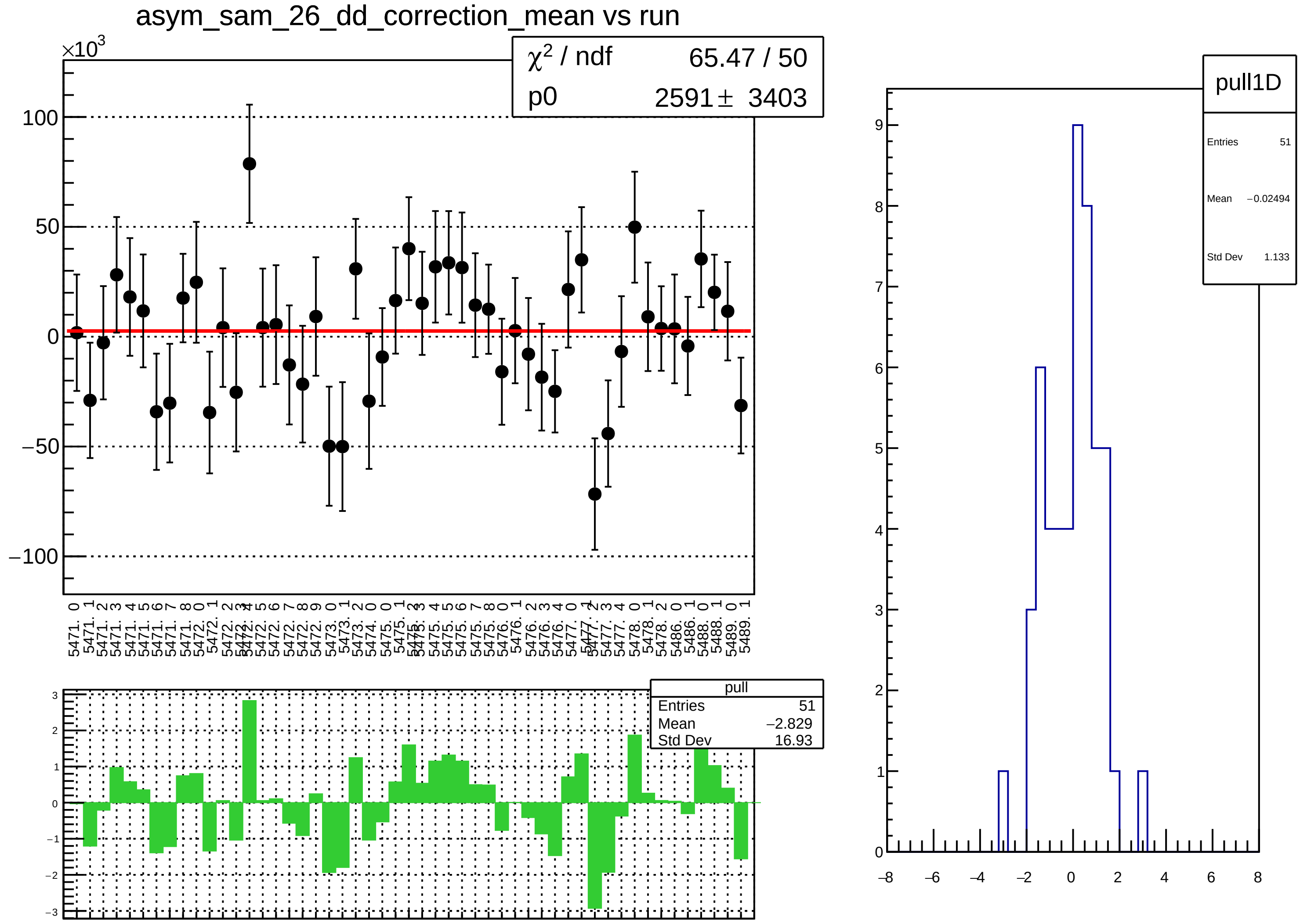
asym_sam_15_dd_rms vs run
χ2 / ndf 1.595e+04 / 50
p0 618.3 ± 0.628



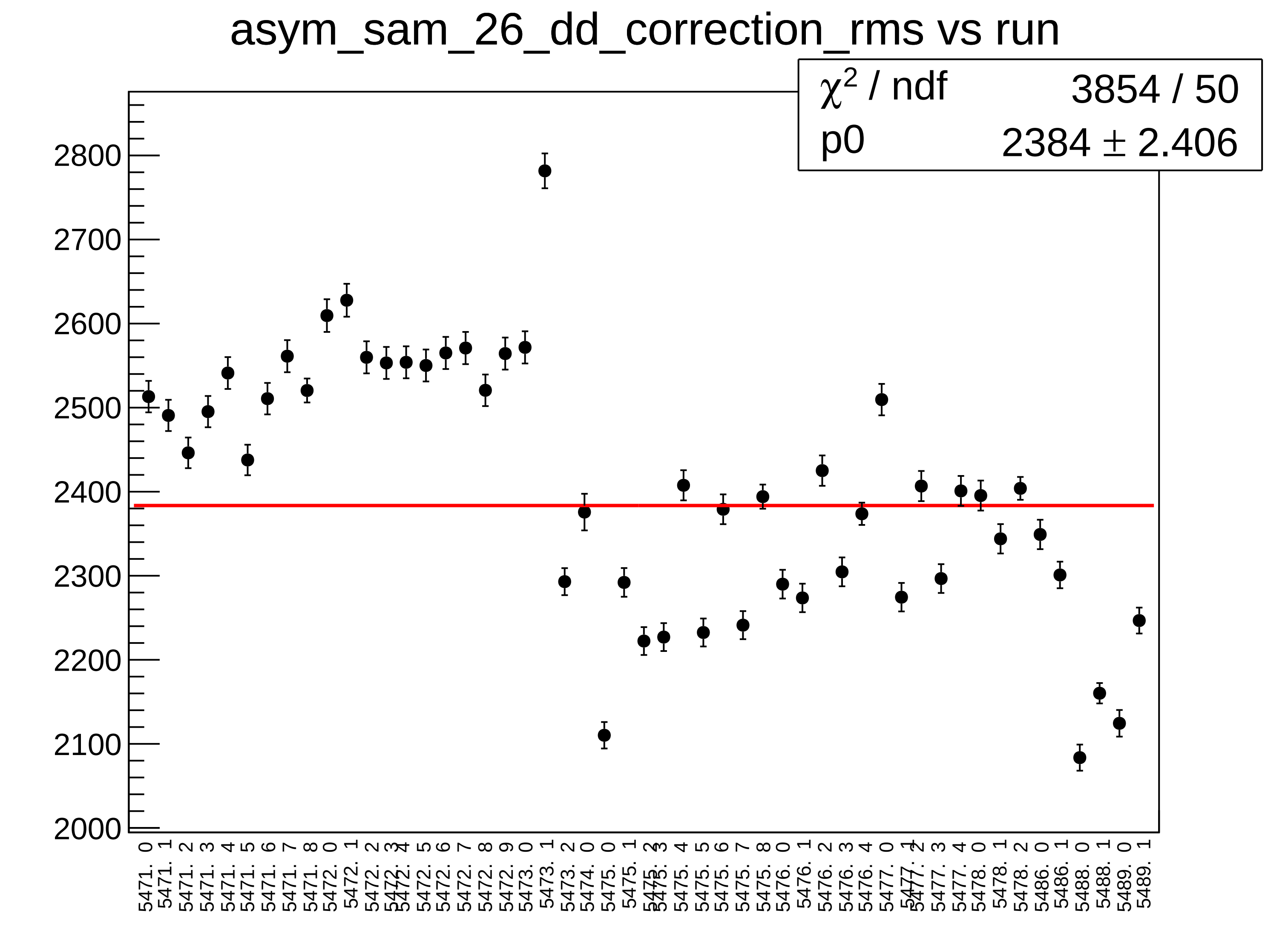
reg_asym_sam_26_dd_mean vs run
χ^2 / ndf 49.8 / 50
p0 −673.9 ± 297.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 1926
Std Dev 1907
pull1D
Entries 51
Mean 0.001374
Std Dev 0.9882



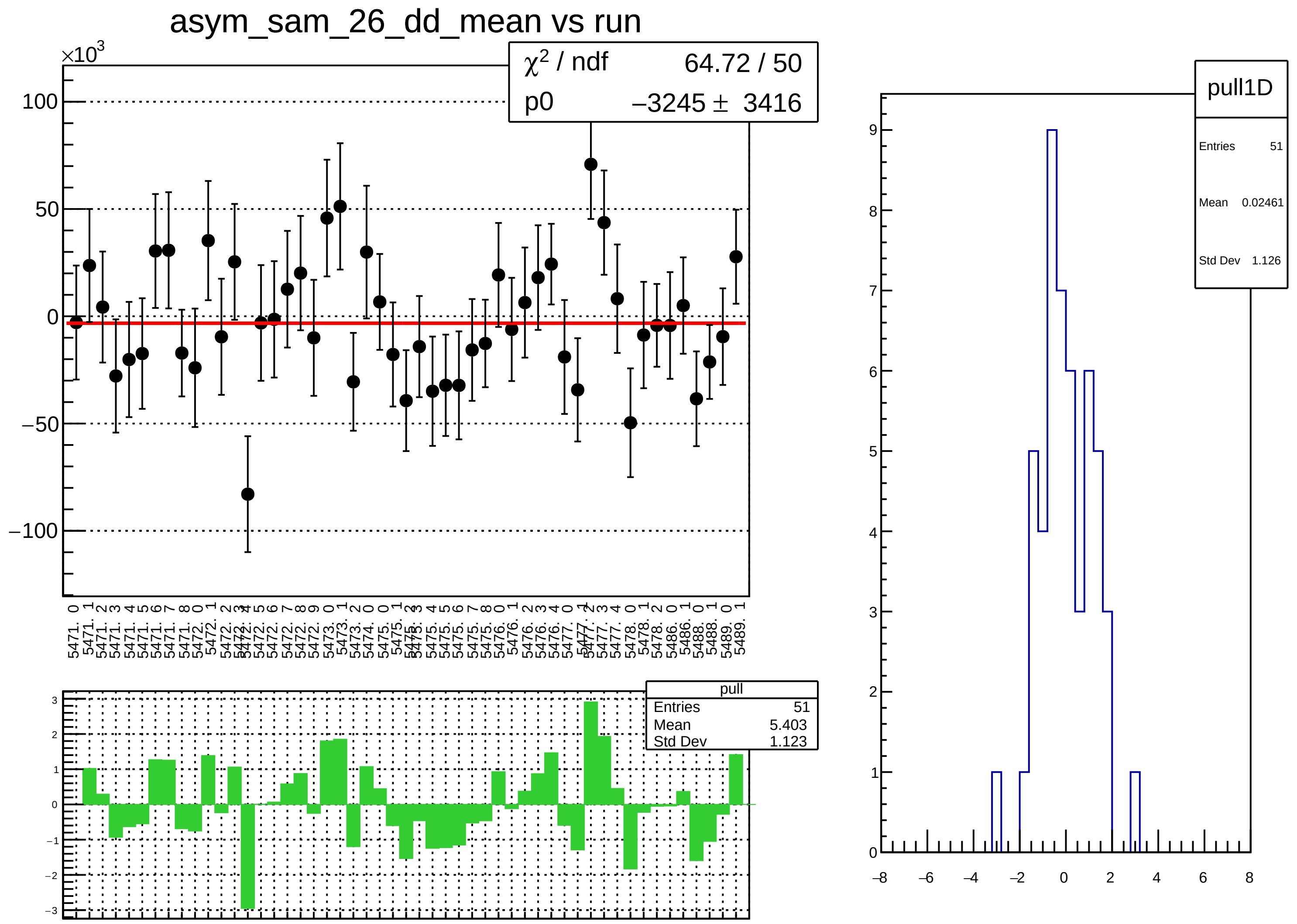
reg_asym_sam_26_dd_rms vs run
χ2 / ndf 1557 / 50
p0 208.9 ± 0.2107
250
240
230
220
210
200



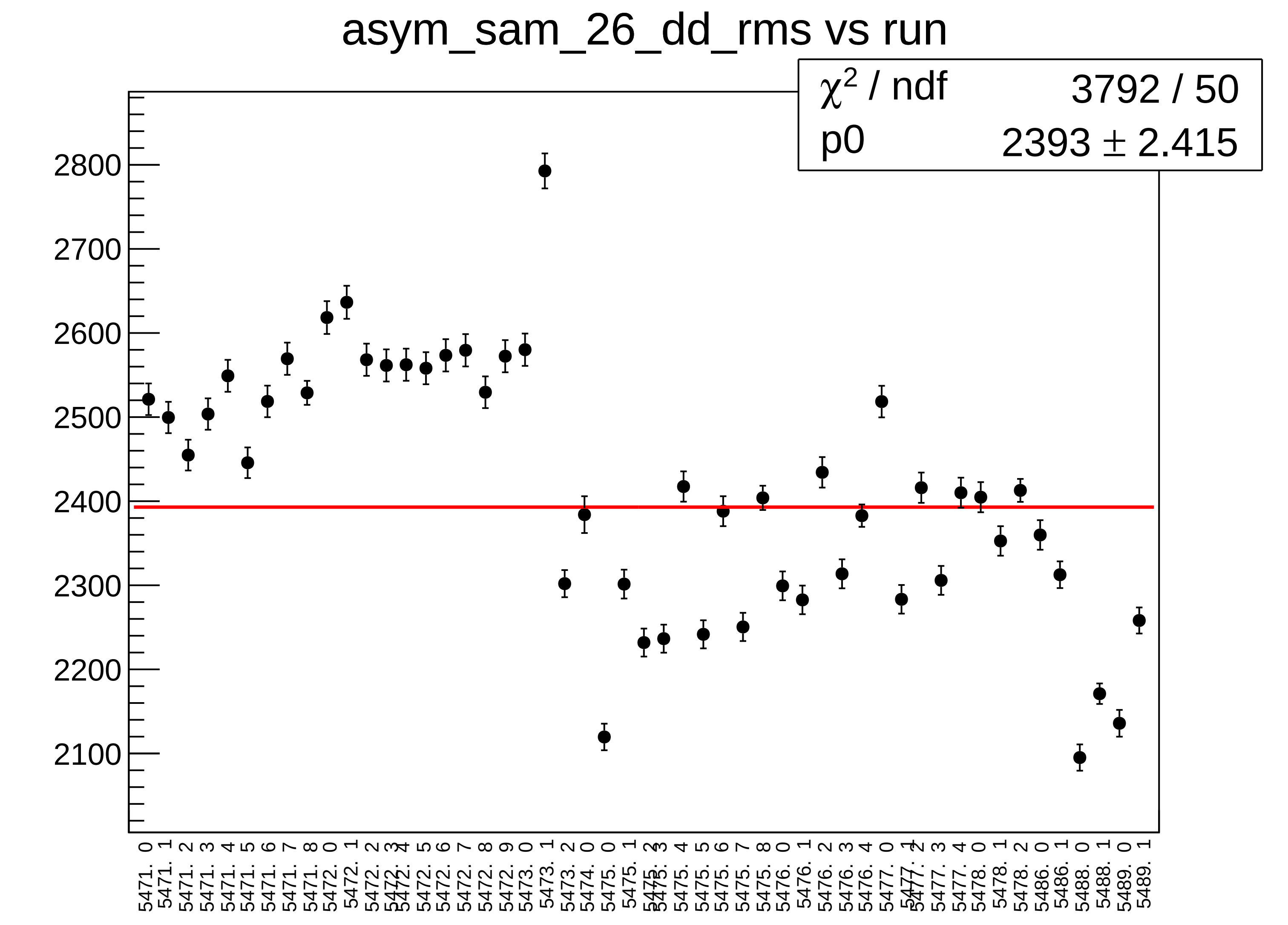
asym_sam_26_dd_correction_mean vs run
×10^3
χ2 / ndf 65.47 / 50
p0 2591 ± 3403
pull
Entries 51
Mean −2.829
Std Dev 16.93
pull1D
Entries 51
Mean −0.02494
Std Dev 1.133



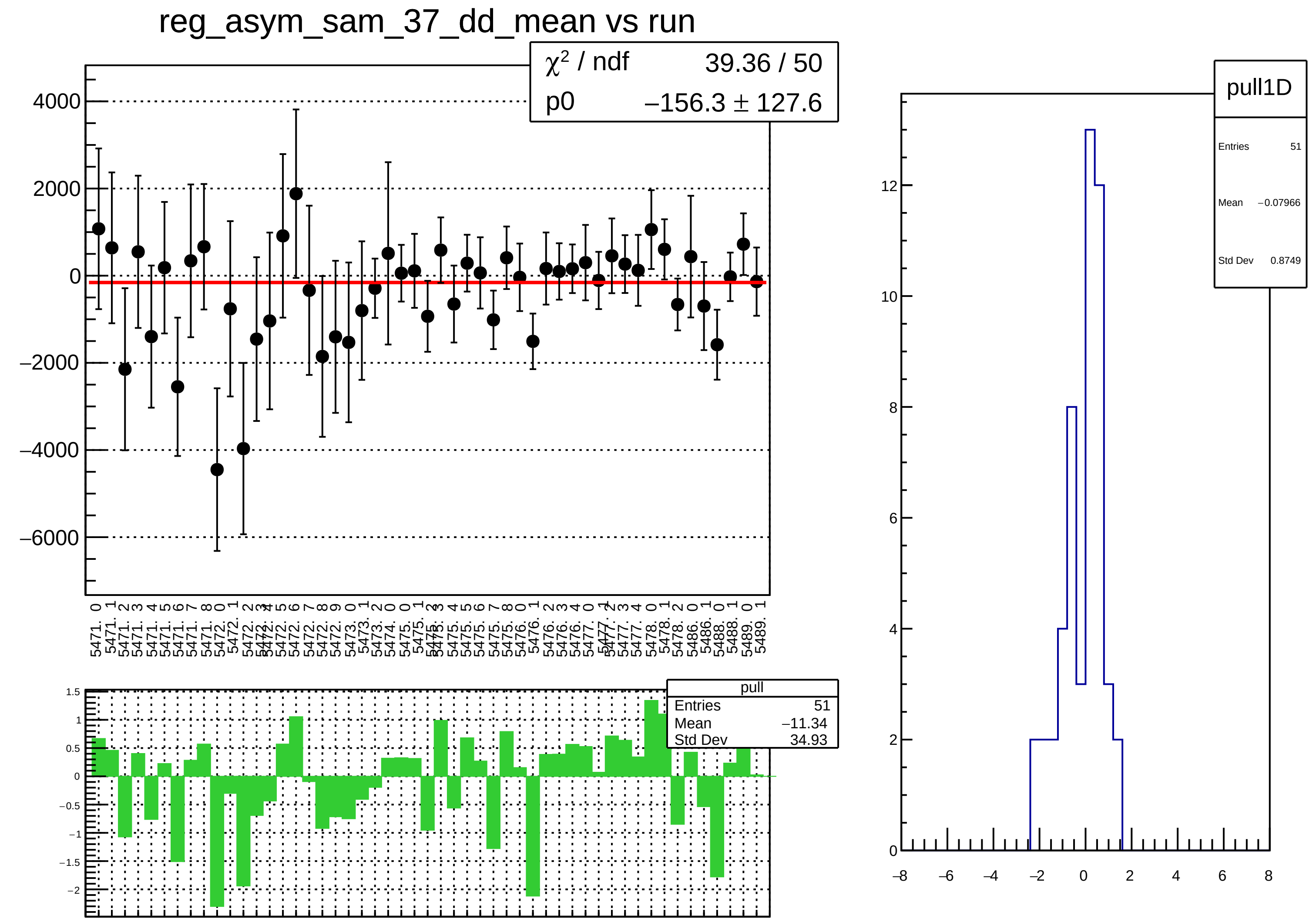
asym_sam_26_dd_correction_rms vs run
χ^2 / ndf 3854 / 50
p0 2384 ± 2.406
2800
2700
2600
2500
2400
2300
2200
2100
2000



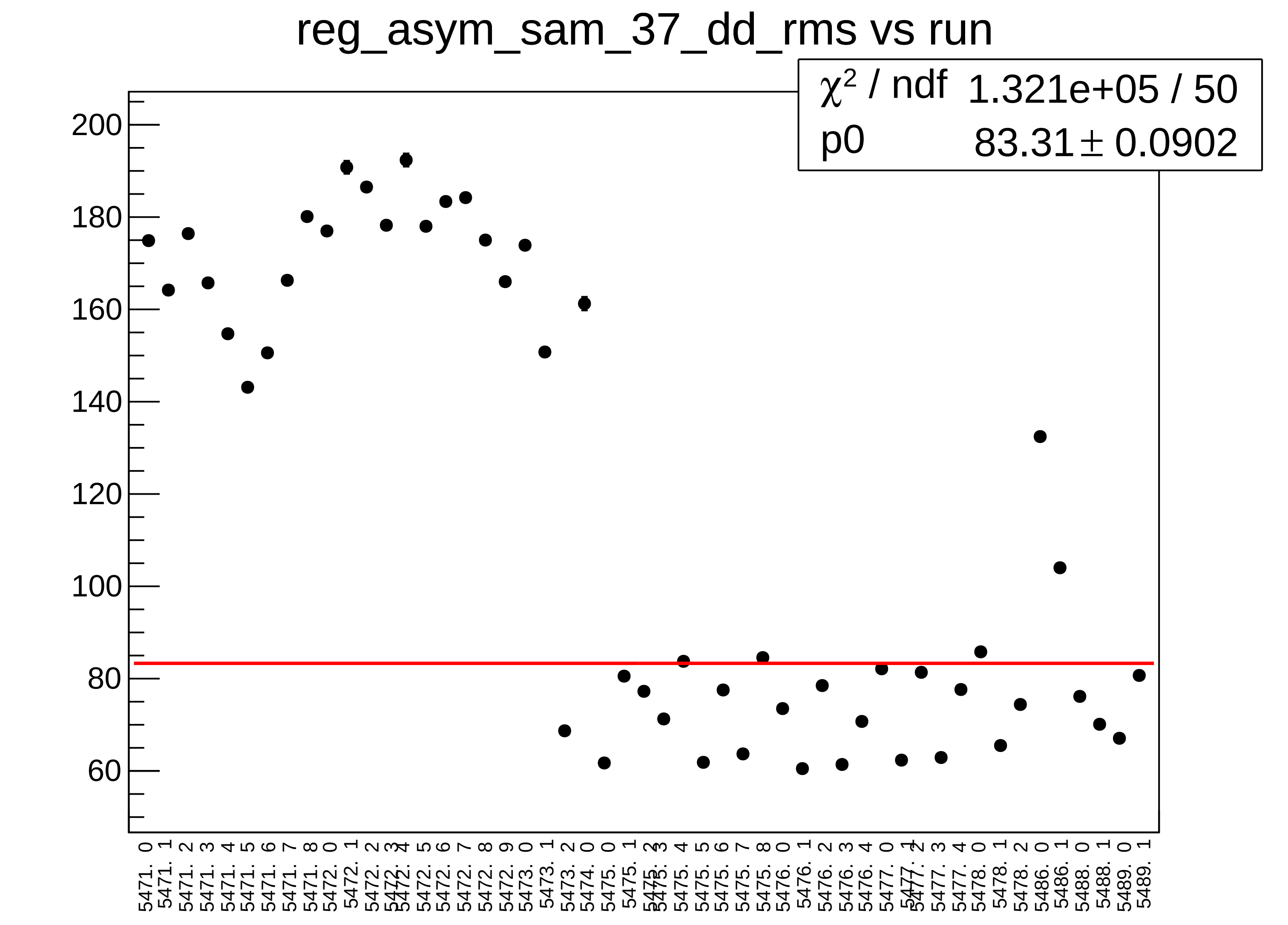
asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 64.72 / 50
p0 −3245 ± 3416
100
50
0
−50
−100
pull
Entries 51
Mean 5.403
Std Dev 1.123
pull1D
Entries 51
Mean 0.02461
Std Dev 1.126



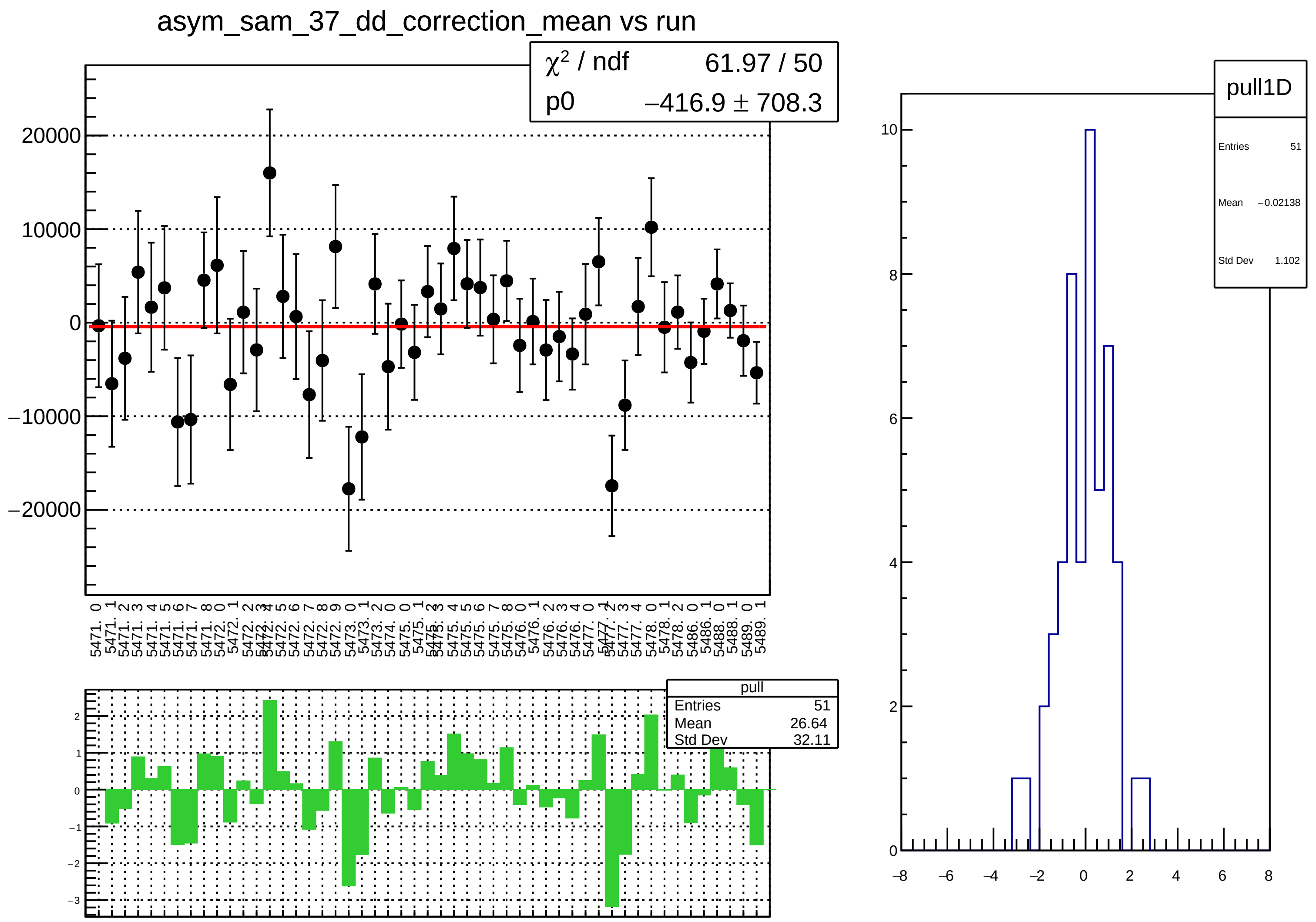
asym_sam_26_dd_rms vs run
χ^2 / ndf 3792 / 50
p0 2393 ± 2.415
2800
2700
2600
2500
2400
2300
2200
2100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



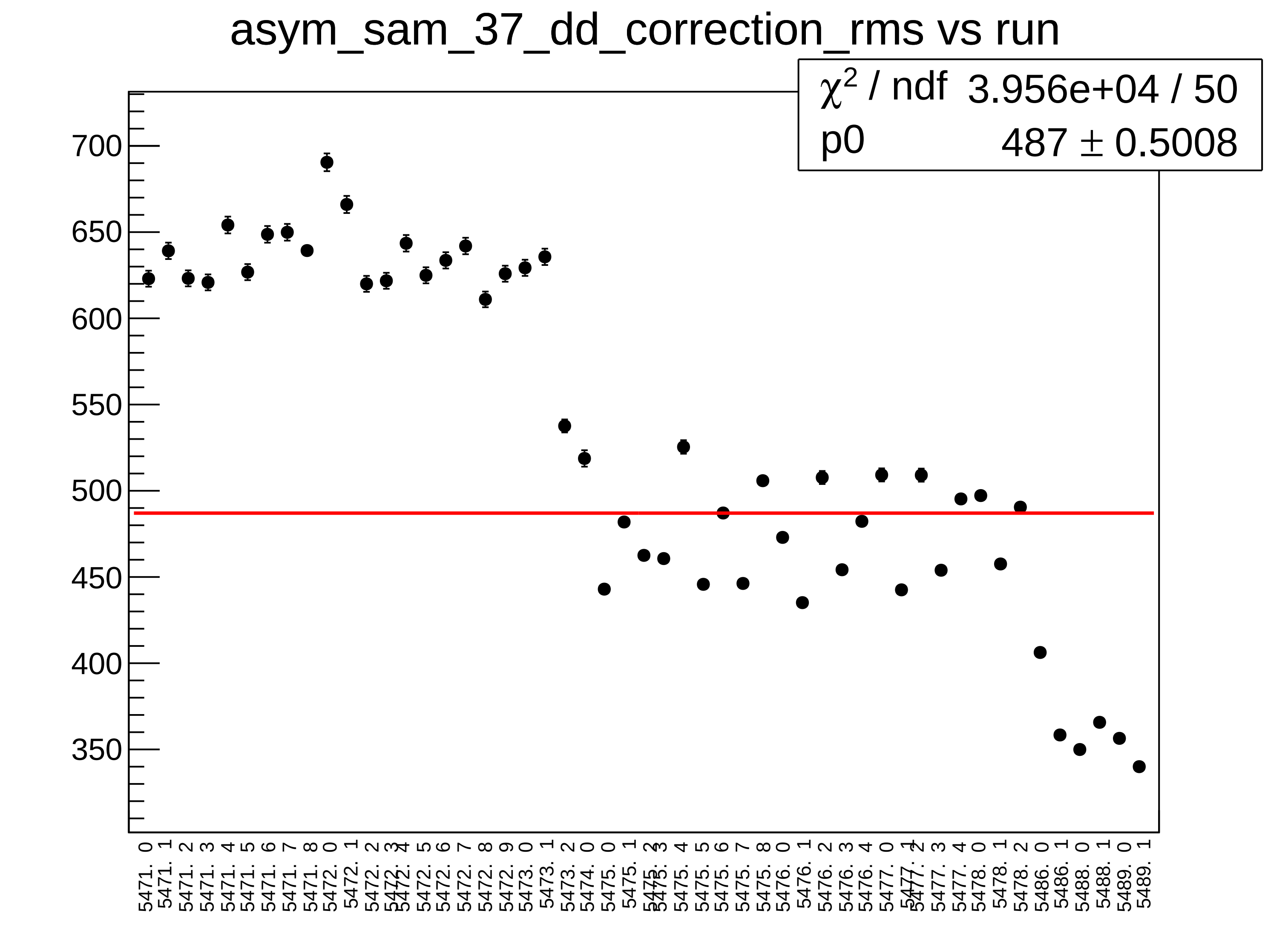
reg_asym_sam_37_dd_mean vs run
χ^2 / ndf 39.36 / 50
p0 −156.3 ± 127.6
pull
Entries 51
Mean −11.34
Std Dev 34.93
pull1D
Entries 51
Mean −0.07966
Std Dev 0.8749

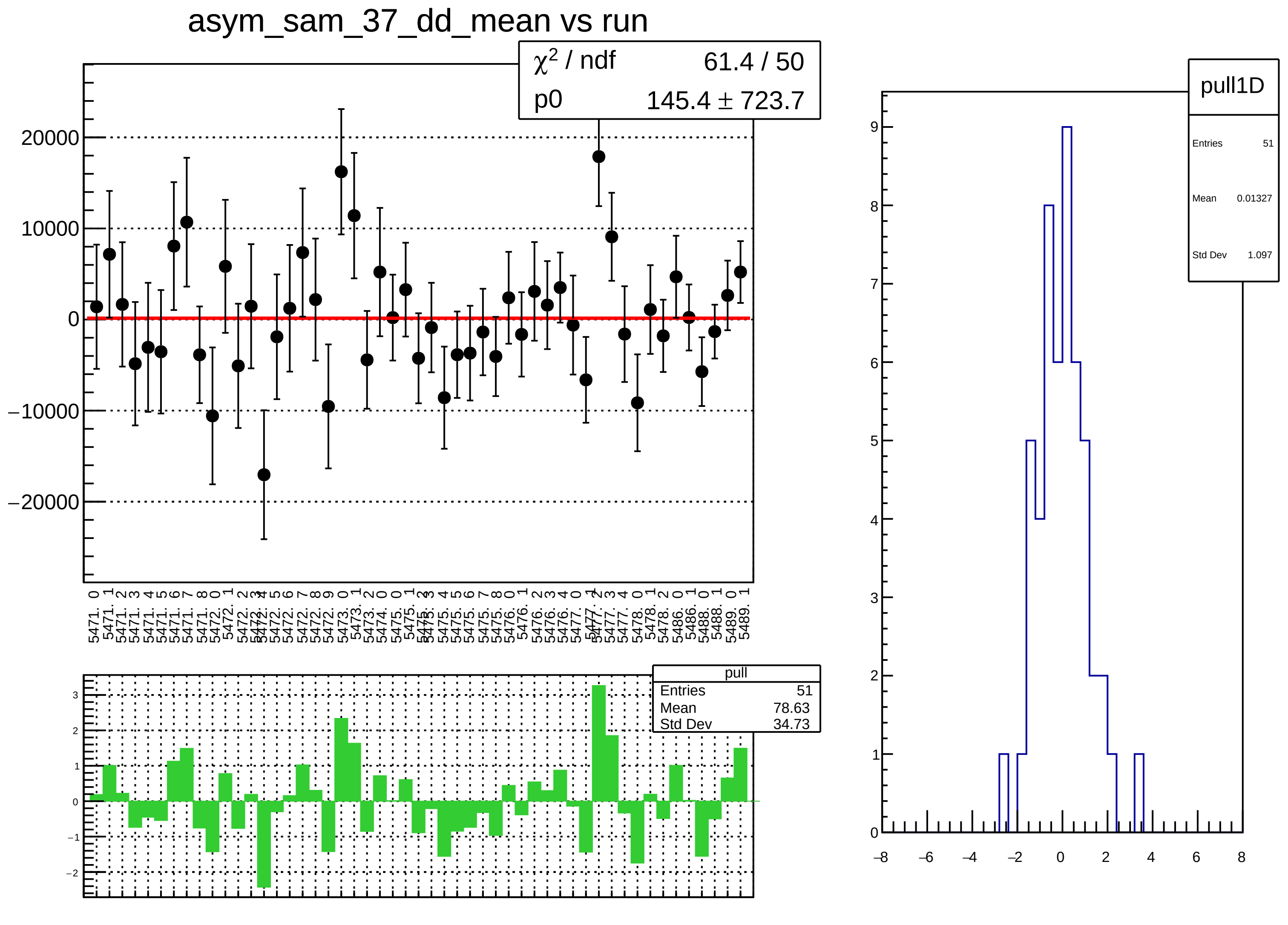


reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.321e+05 / 50
p0 83.31 ± 0.0902
200
180
160
140
120
100
80
60

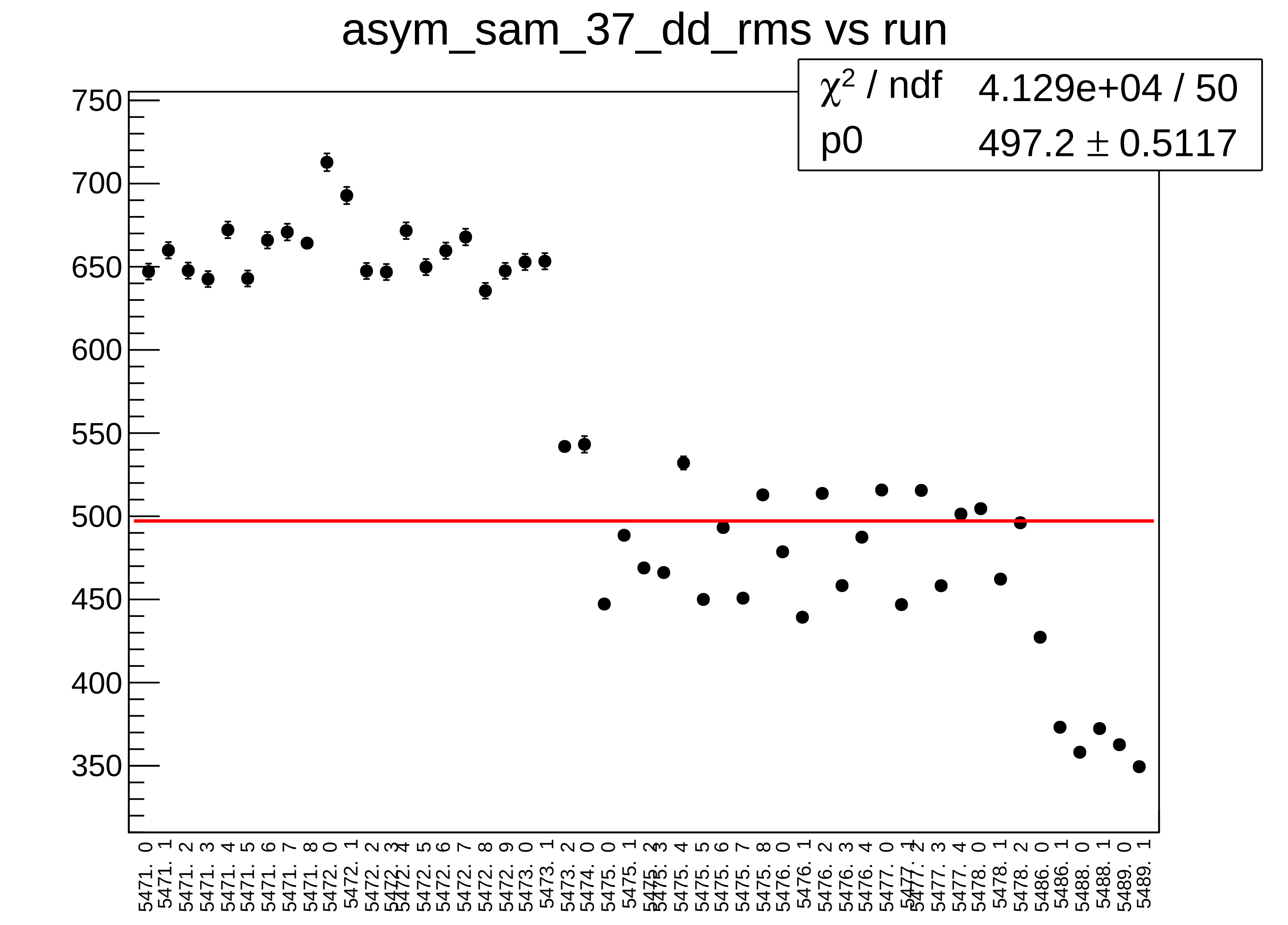


asym_sam_37_dd_correction_mean vs run
χ^2 / ndf 61.97 / 50
p0 −416.9 ± 708.3
pull
Entries 51
Mean 26.64
Std Dev 32.11
pull1D
Entries 51
Mean −0.02138
Std Dev 1.102

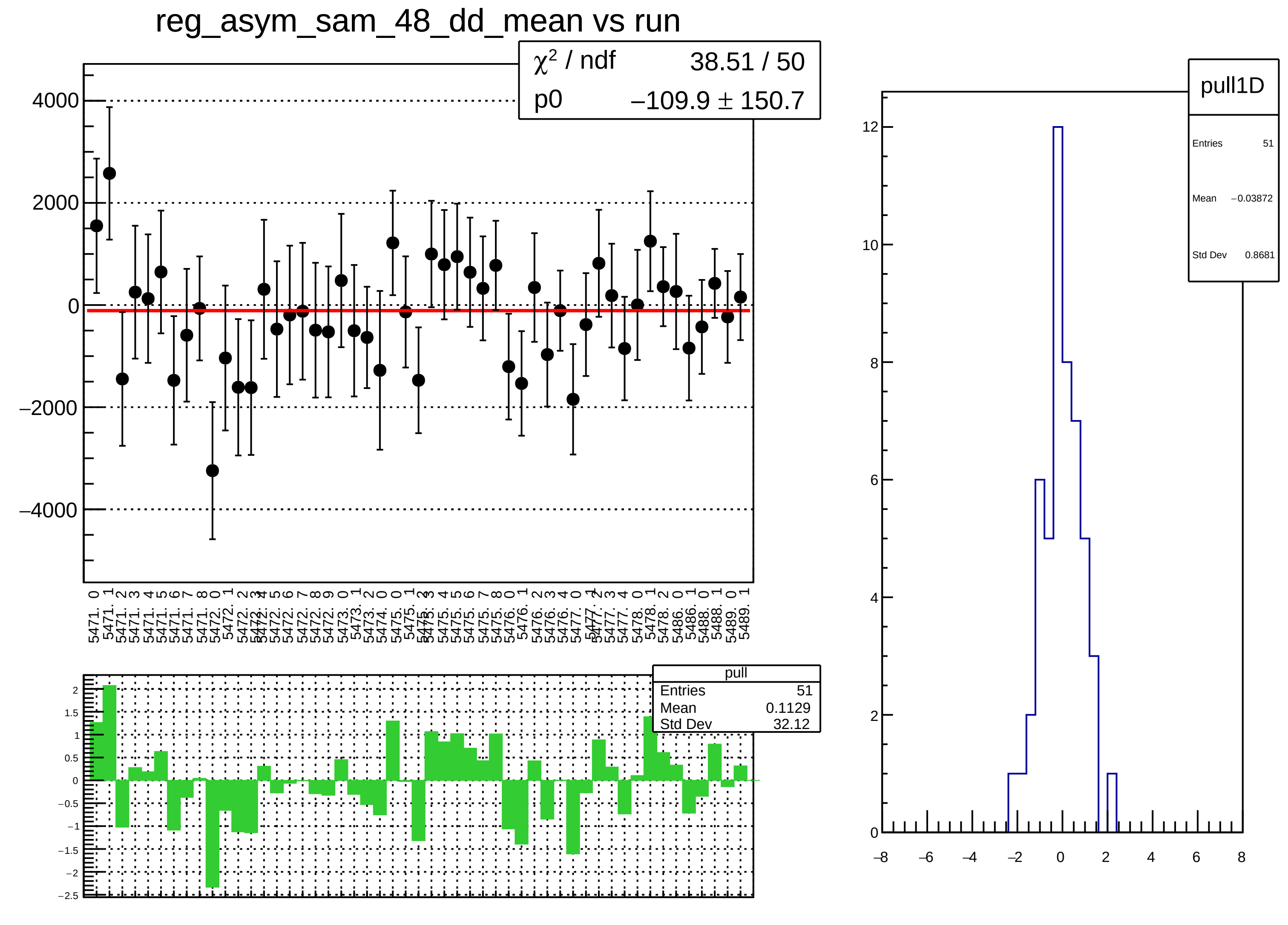

asym_sam_37_dd_correction_rms vs run
χ^2 / ndf 3.956e+04 / 50
p0 487 ± 0.5008
700
650
600
550
500
450
400
350



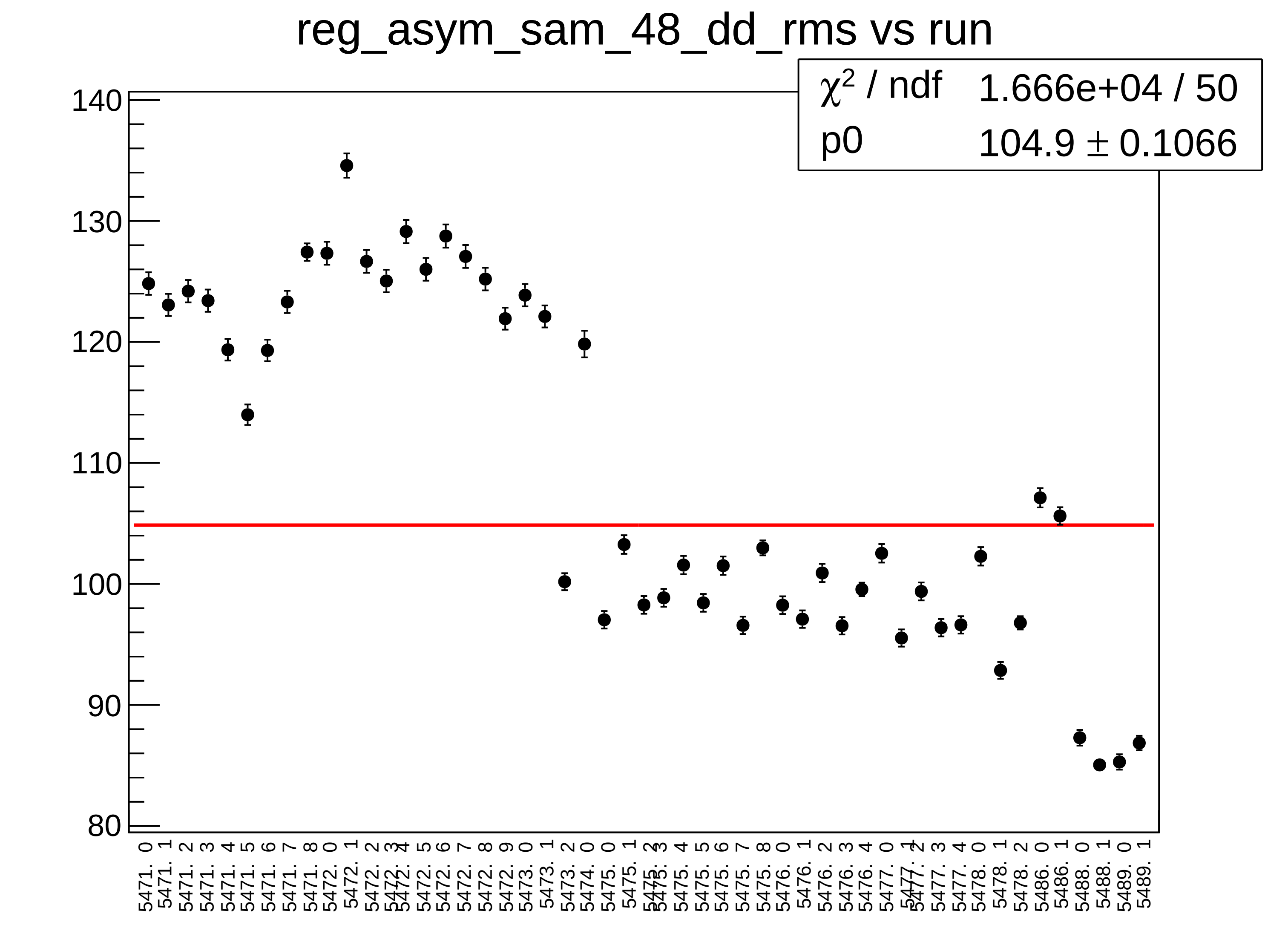
asym_sam_37_dd_mean vs run
χ^2 / ndf 61.4 / 50
p0 145.4 ± 723.7
pull
Entries 51
Mean 78.63
Std Dev 34.73
pull1D
Entries 51
Mean 0.01327
Std Dev 1.097



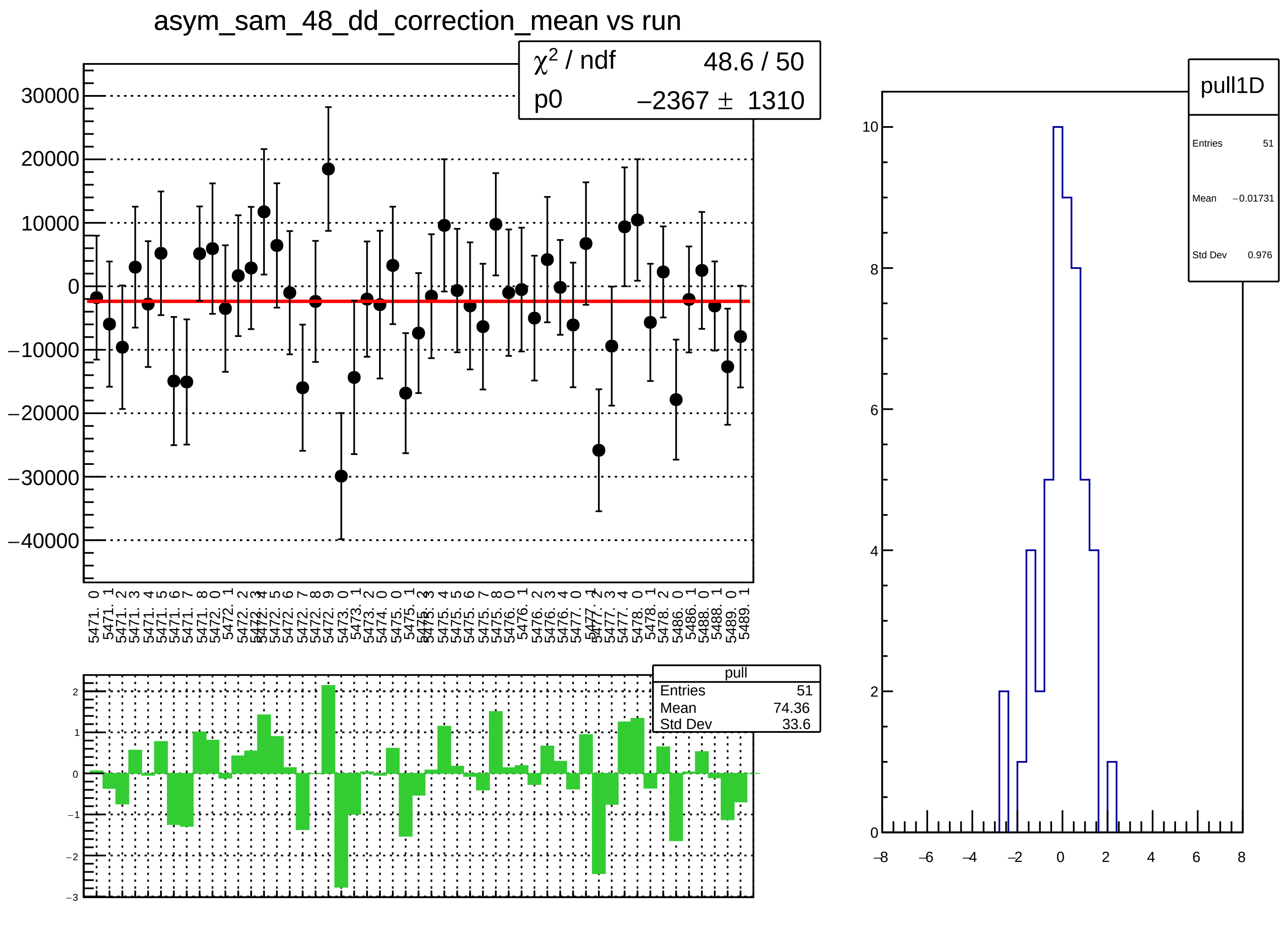
asym_sam_37_dd_rms vs run
χ^2 / ndf 4.129e+04 / 50
p0 497.2 ± 0.5117
750
700
650
600
550
500
450
400
350
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



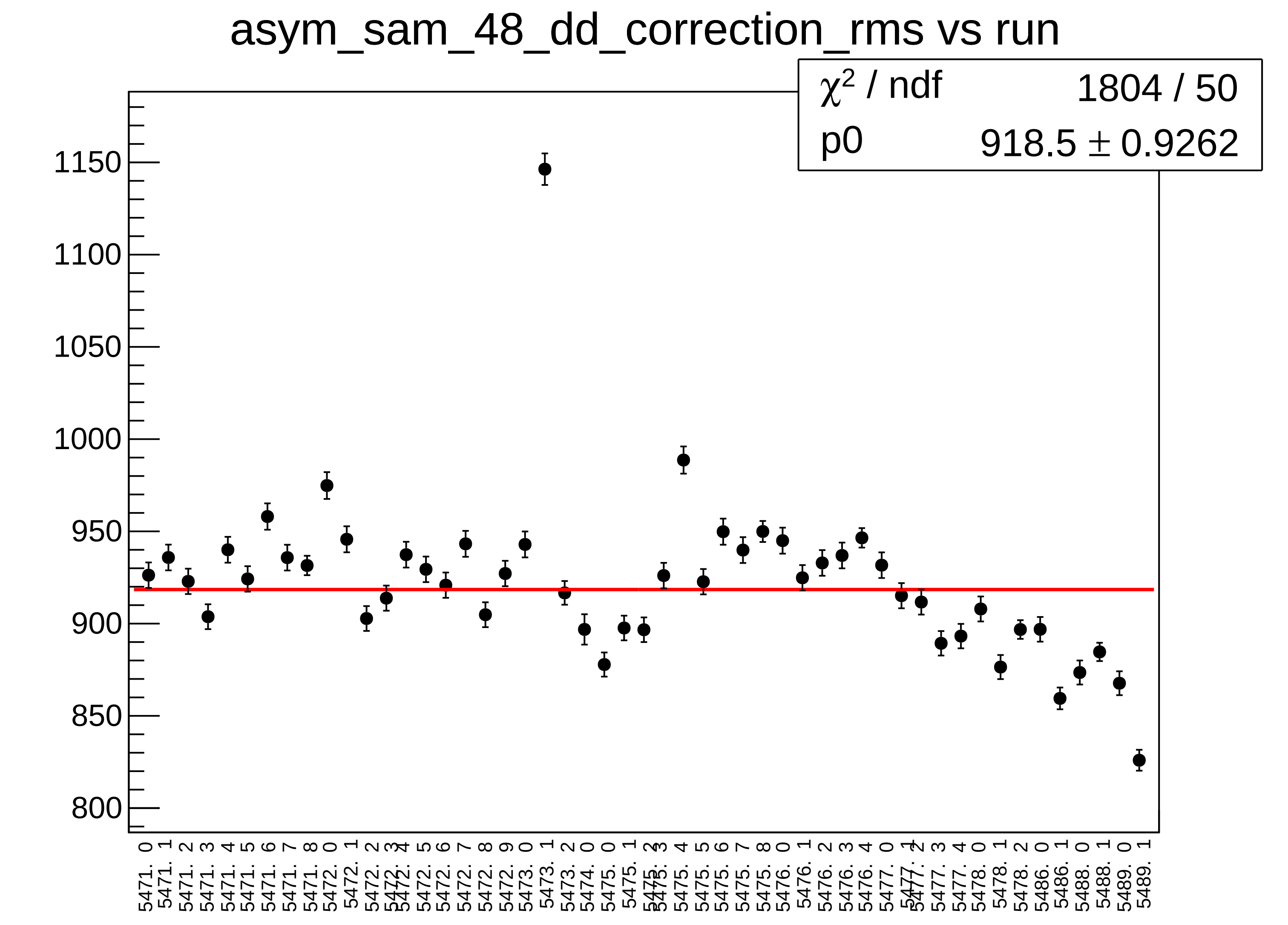
reg_asym_sam_48_dd_mean vs run
χ^2 / ndf 38.51 / 50
p0 −109.9 ± 150.7
pull
Entries 51
Mean 0.1129
Std Dev 32.12
pull1D
Entries 51
Mean −0.03872
Std Dev 0.8681



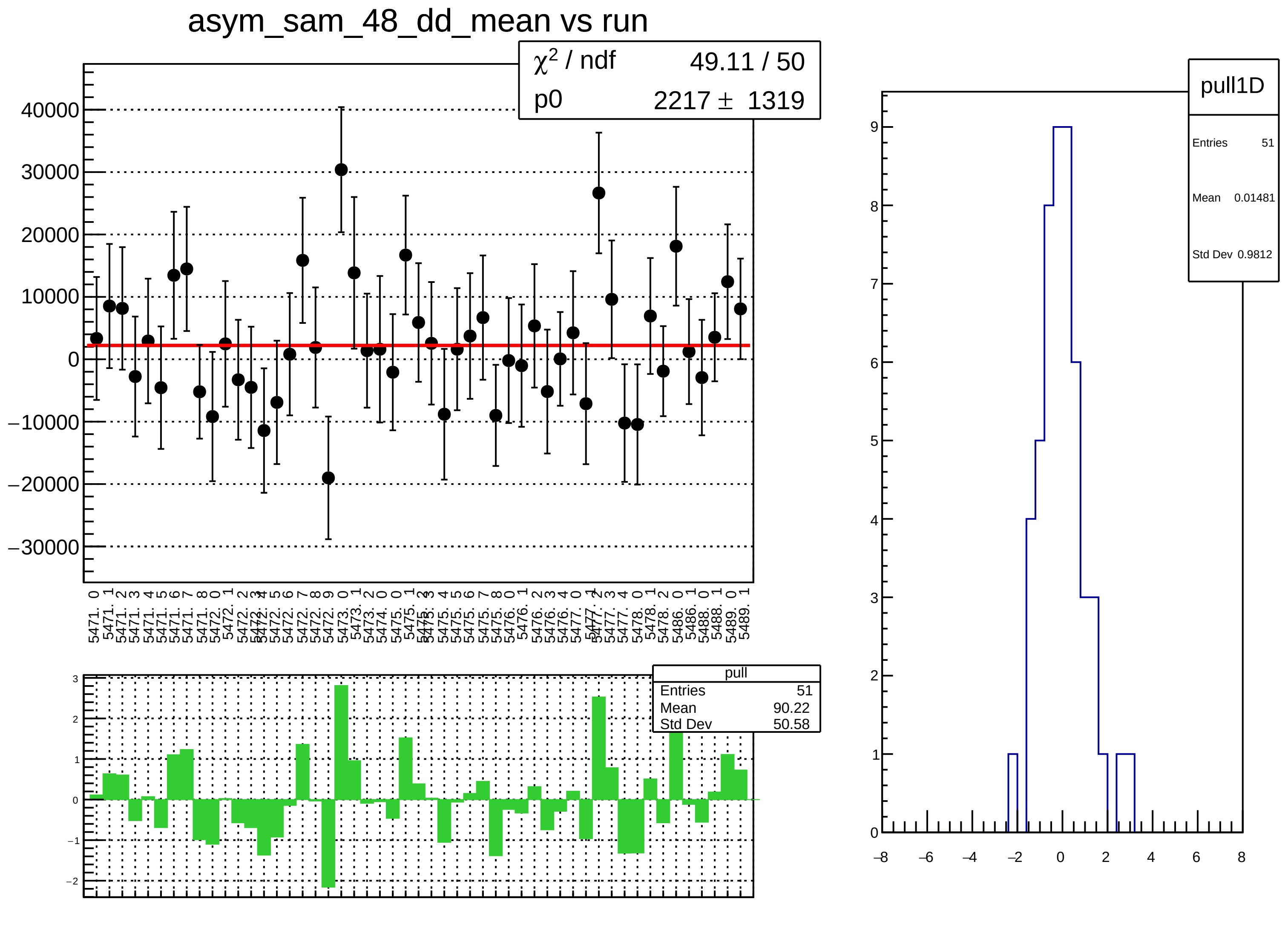
reg_asym_sam_48_dd_rms vs run
χ2 / ndf 1.666e+04 / 50
p0 104.9 ± 0.1066
140
130
120
110
100
90
80



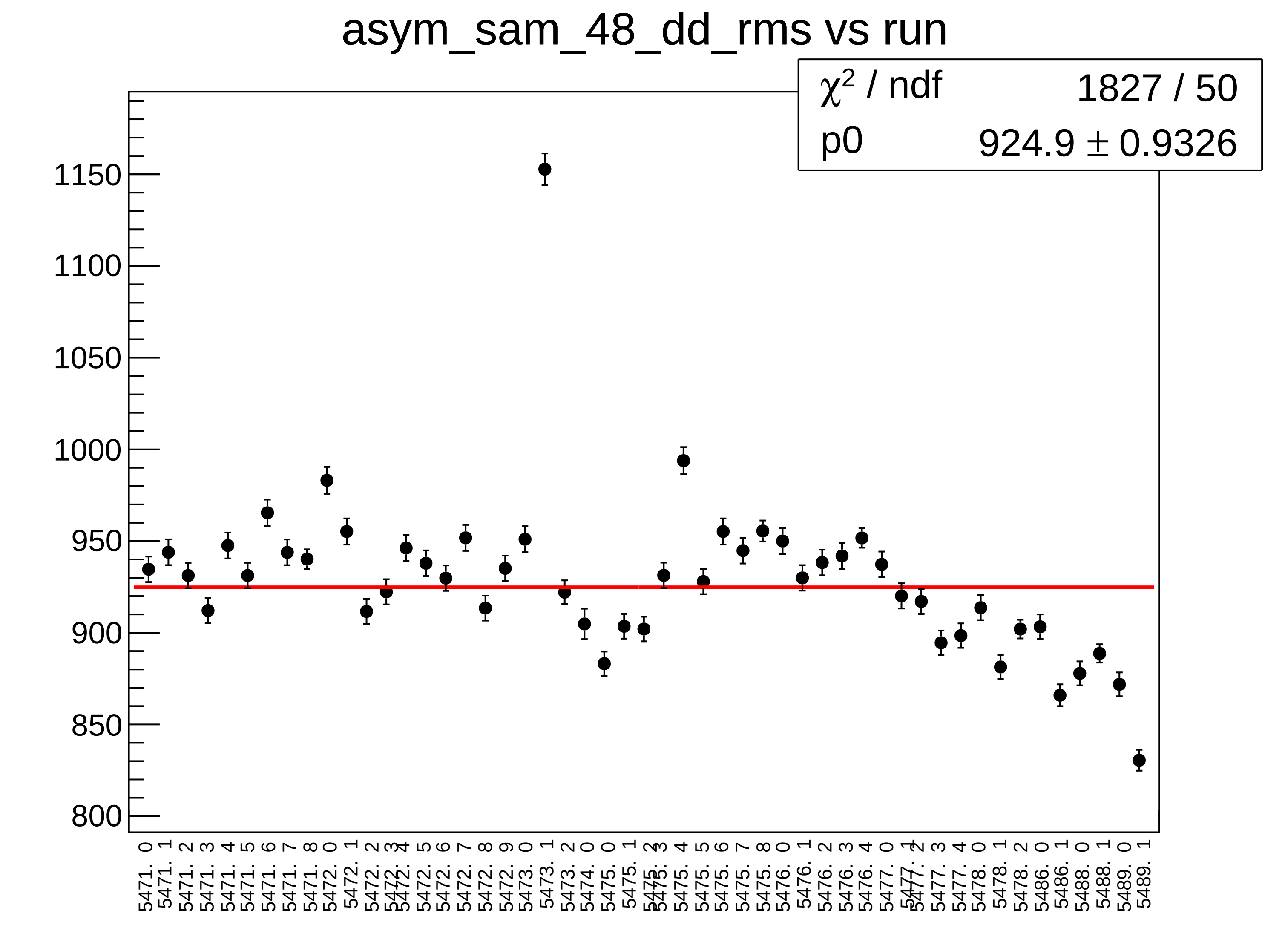
asym_sam_48_dd_correction_mean vs run
χ^2 / ndf 48.6 / 50
p0 −2367 ± 1310
pull
Entries 51
Mean 74.36
Std Dev 33.6
pull1D
Entries 51
Mean −0.01731
Std Dev 0.976



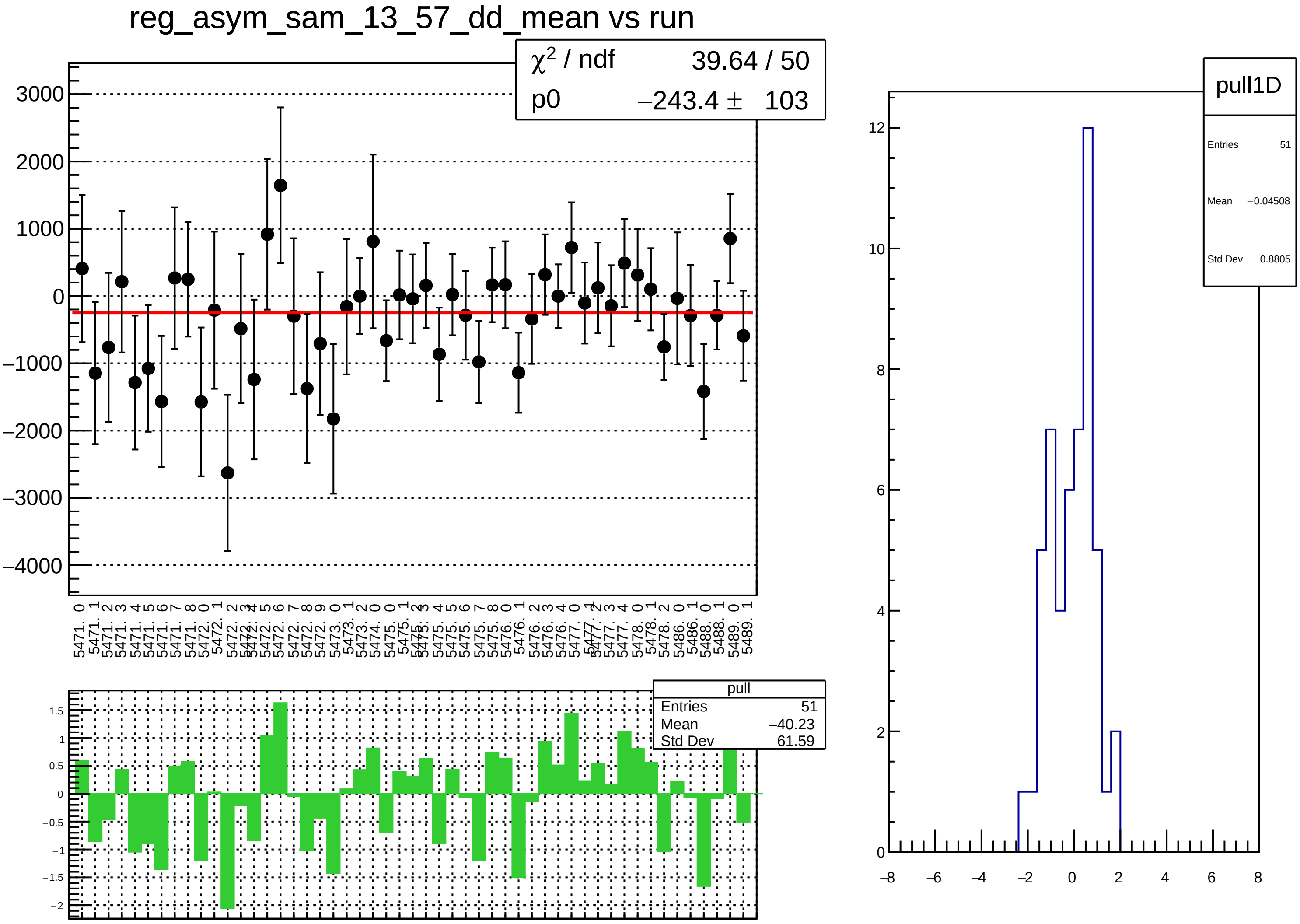
asym_sam_48_dd_correction_rms vs run
χ^2 / ndf 1804 / 50
p0 918.5 ± 0.9262
1150
1100
1050
1000
950
900
850
800

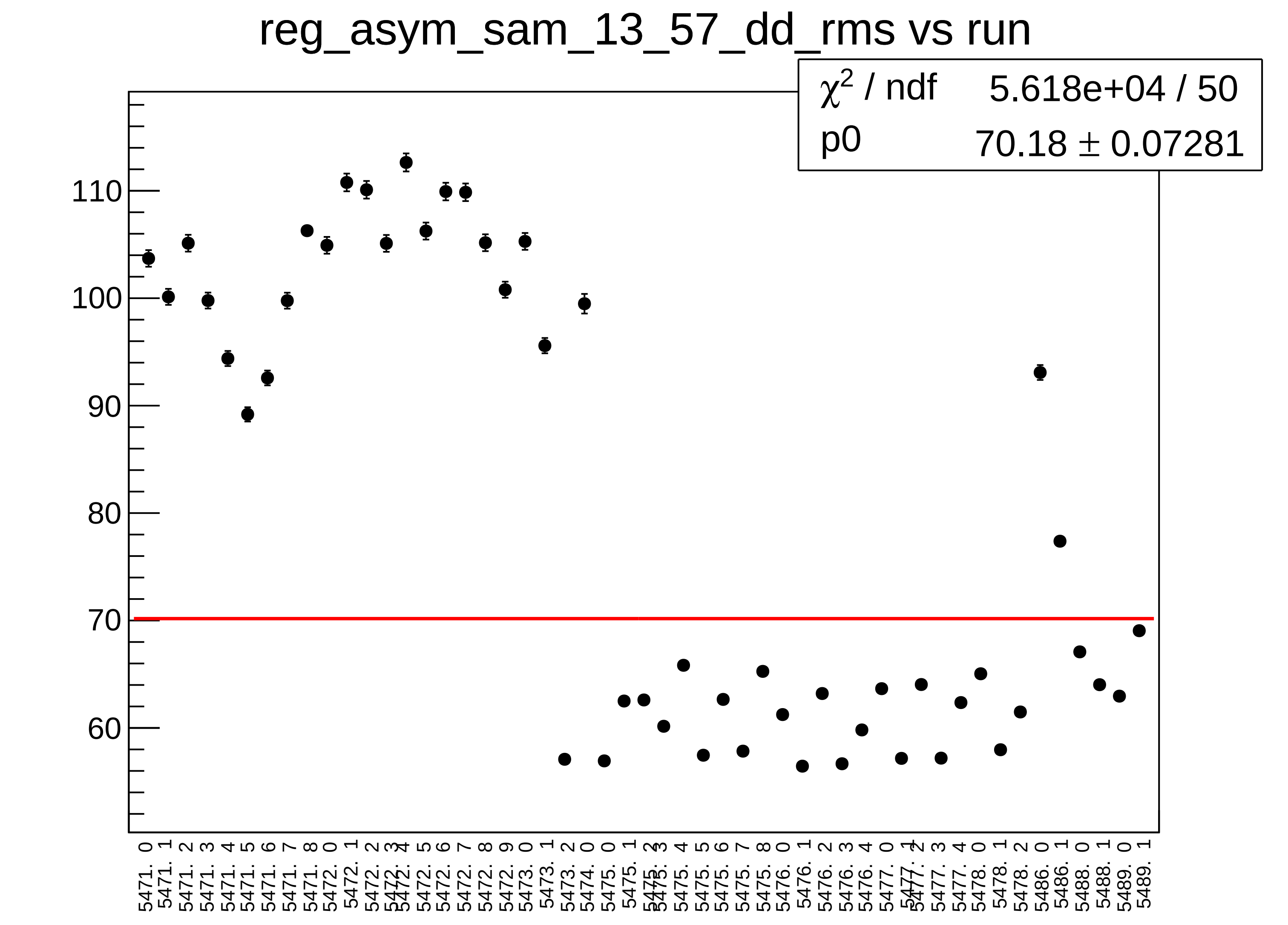


asym_sam_48_dd_mean vs run
χ2 / ndf 49.11 / 50
p0 2217 ± 1319
pull
Entries 51
Mean 90.22
Std Dev 50.58
pull1D
Entries 51
Mean 0.01481
Std Dev 0.9812

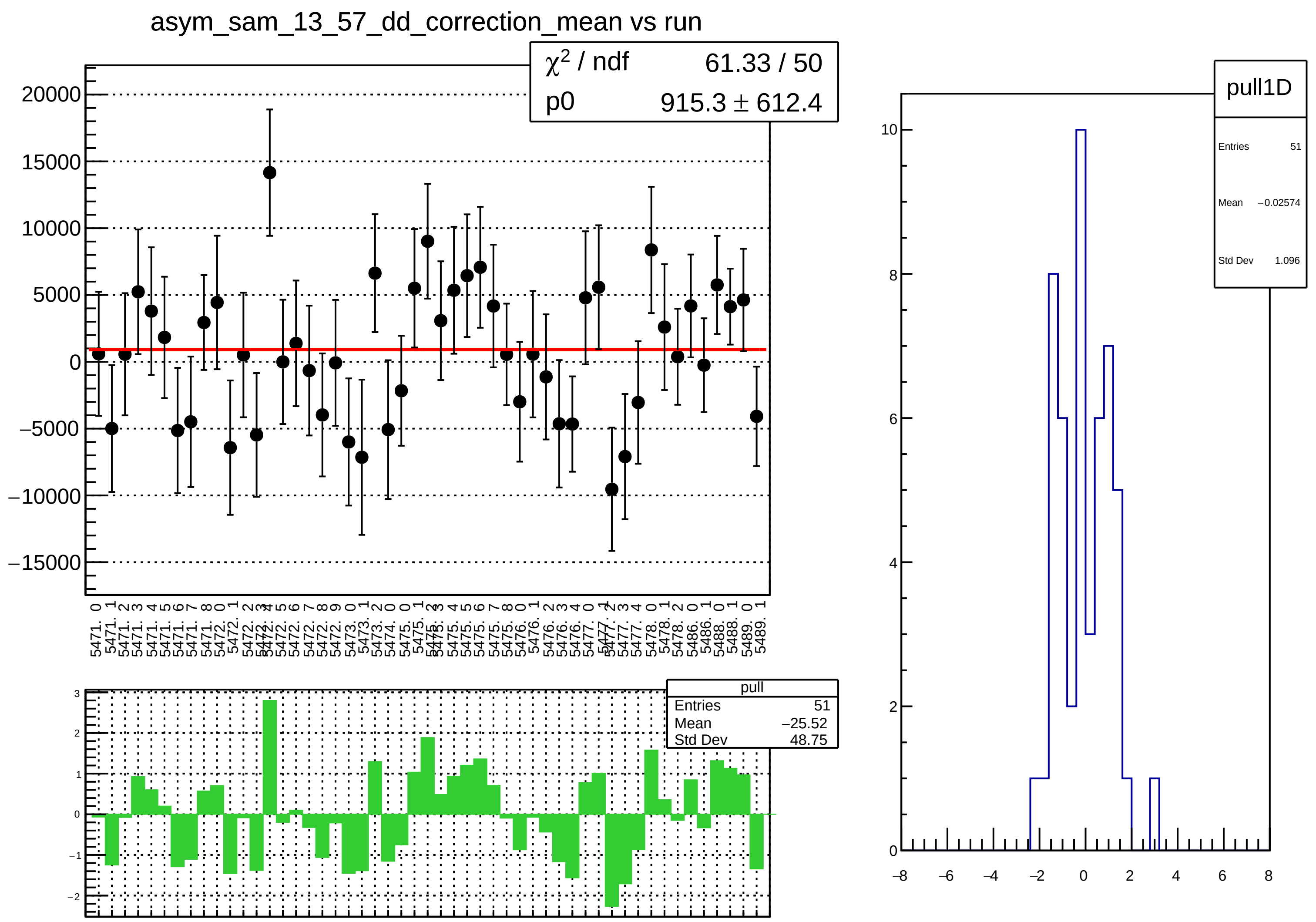


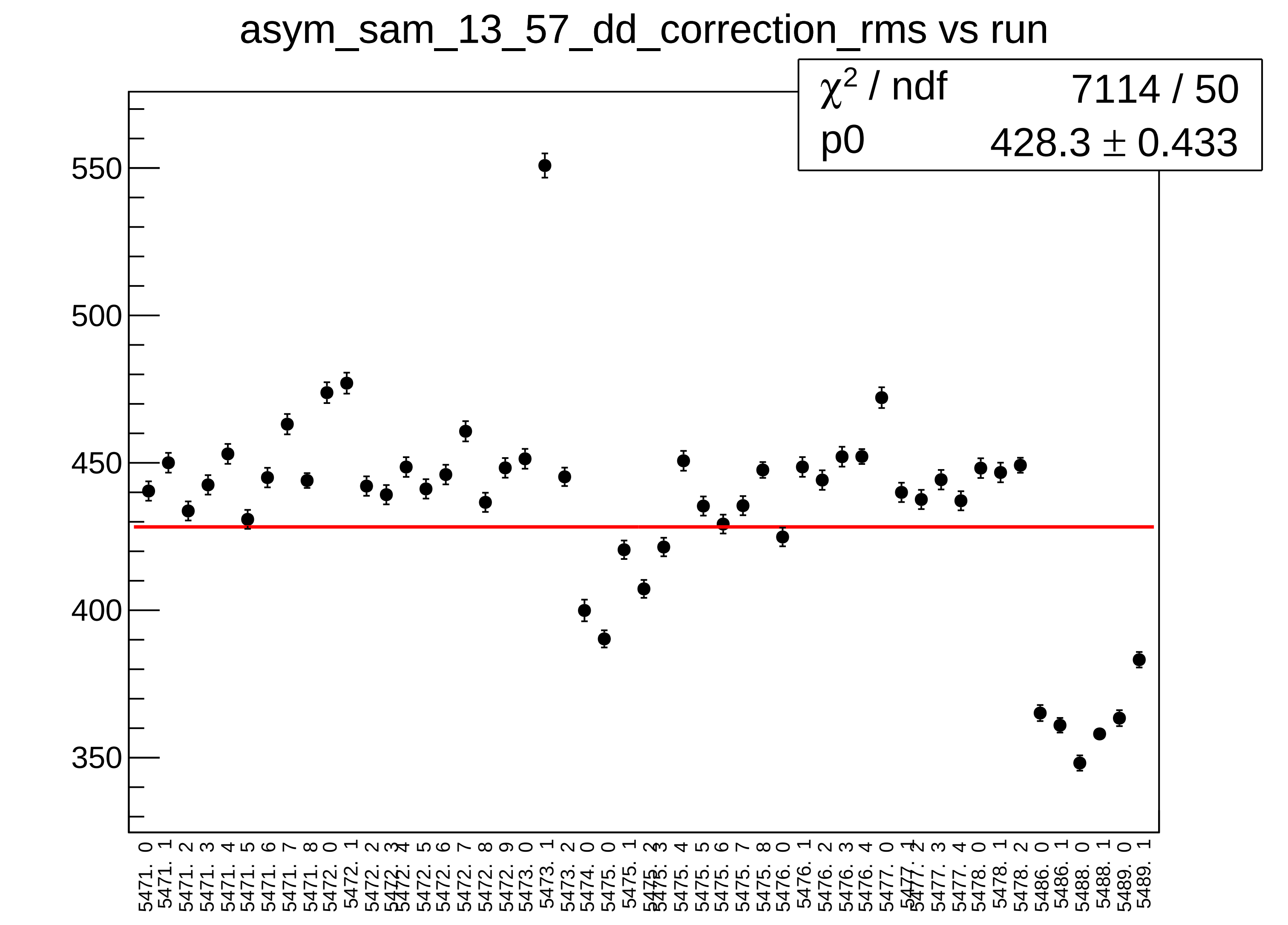
asym_sam_48_dd_rms vs run
χ^2 / ndf 1827 / 50
p0 924.9 ± 0.9326
1150
1100
1050
1000
950
900
850
800


reg_asym_sam_13_57_dd_mean vs run
χ2 / ndf 39.64 / 50
p0 −243.4 ± 103
pull
Entries 51
Mean −40.23
Std Dev 61.59
pull1D
Entries 51
Mean −0.04508
Std Dev 0.8805

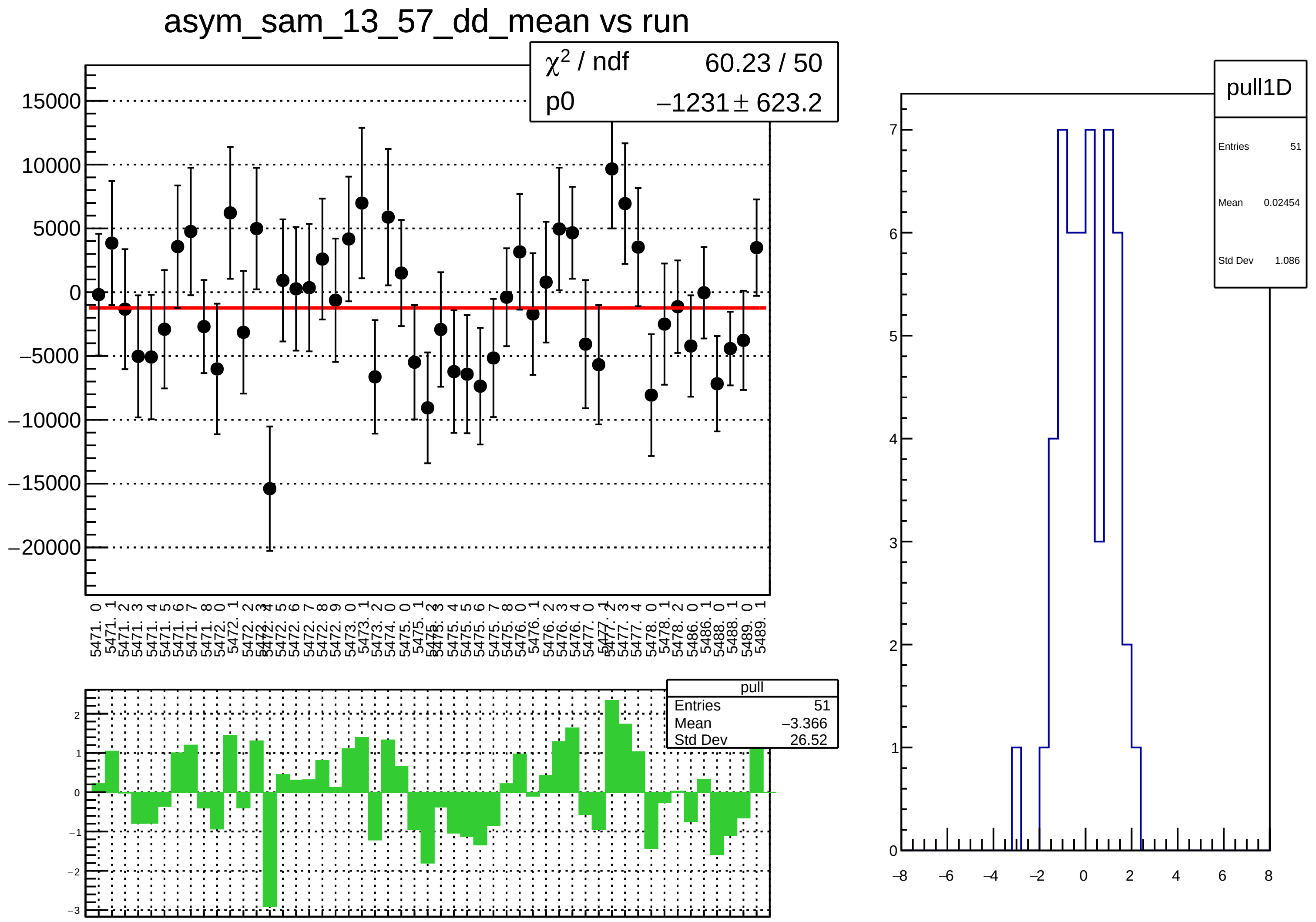


reg_asym_sam_13_57_dd_rms vs run
χ2 / ndf 5.618e+04 / 50
p0 70.18 ± 0.07281
110
100
90
80
70
60

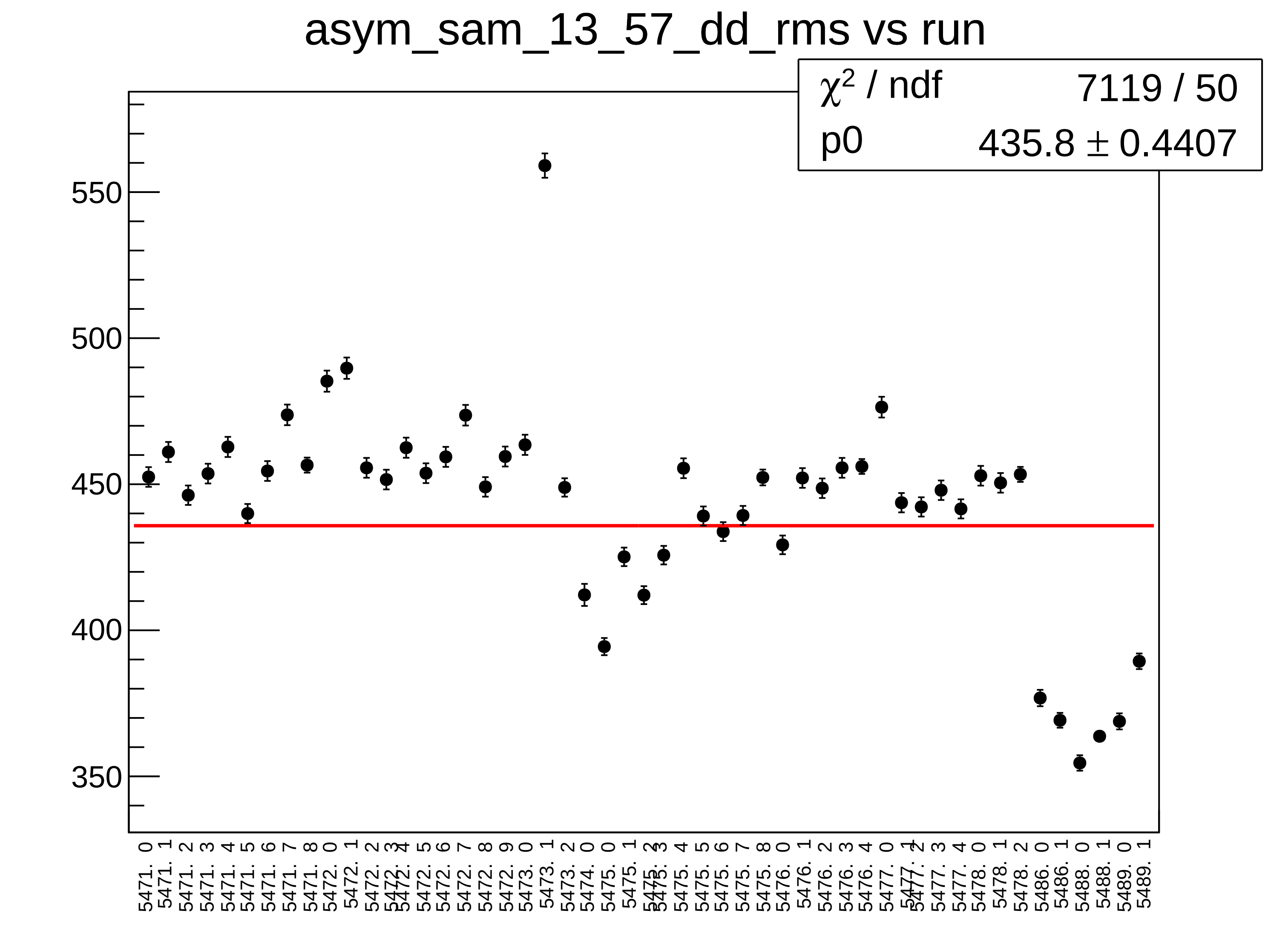

asym_sam_13_57_dd_correction_mean vs run
χ2 / ndf 61.33 / 50
p0 915.3 ± 612.4
pull
Entries 51
Mean −25.52
Std Dev 48.75
pull1D
Entries 51
Mean −0.02574
Std Dev 1.096



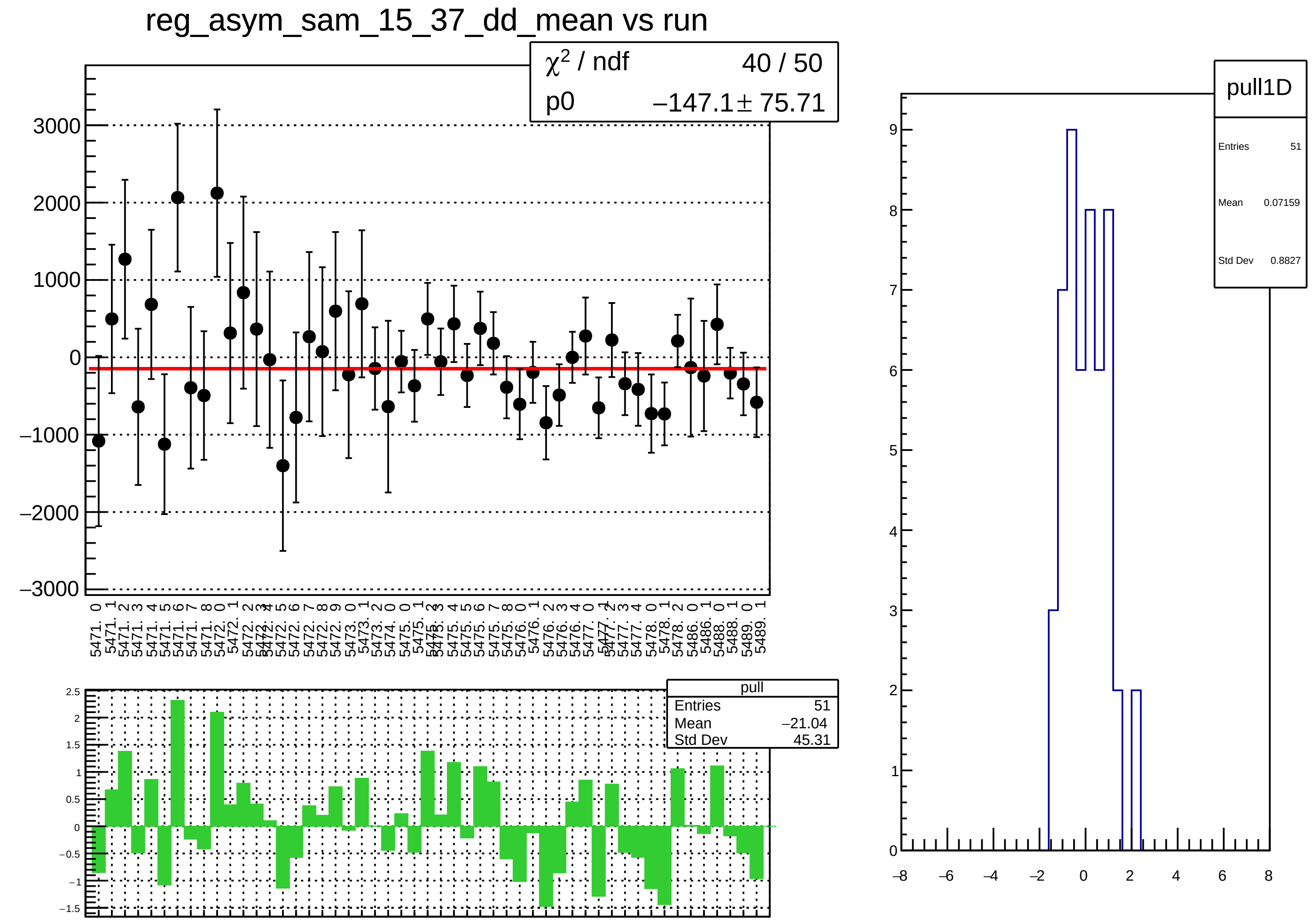
asym_sam_13_57_dd_correction_rms vs run
χ^2 / ndf 7114 / 50
p0 428.3 ± 0.433
550
500
450
400
350



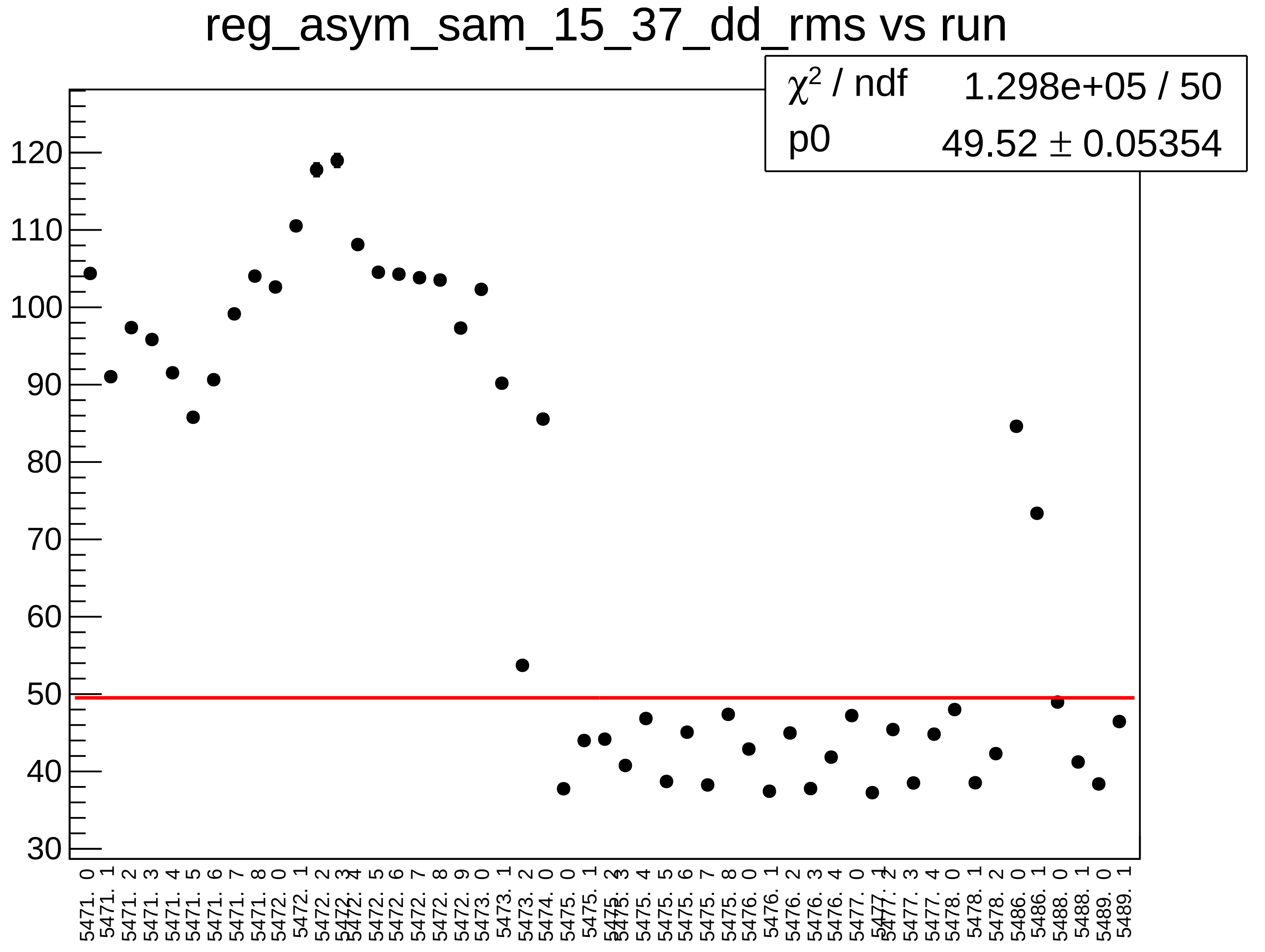
asym_sam_13_57_dd_mean vs run
χ^2 / ndf 60.23 / 50
p0 −1231 ± 623.2
pull
Entries 51
Mean −3.366
Std Dev 26.52
pull1D
Entries 51
Mean 0.02454
Std Dev 1.086

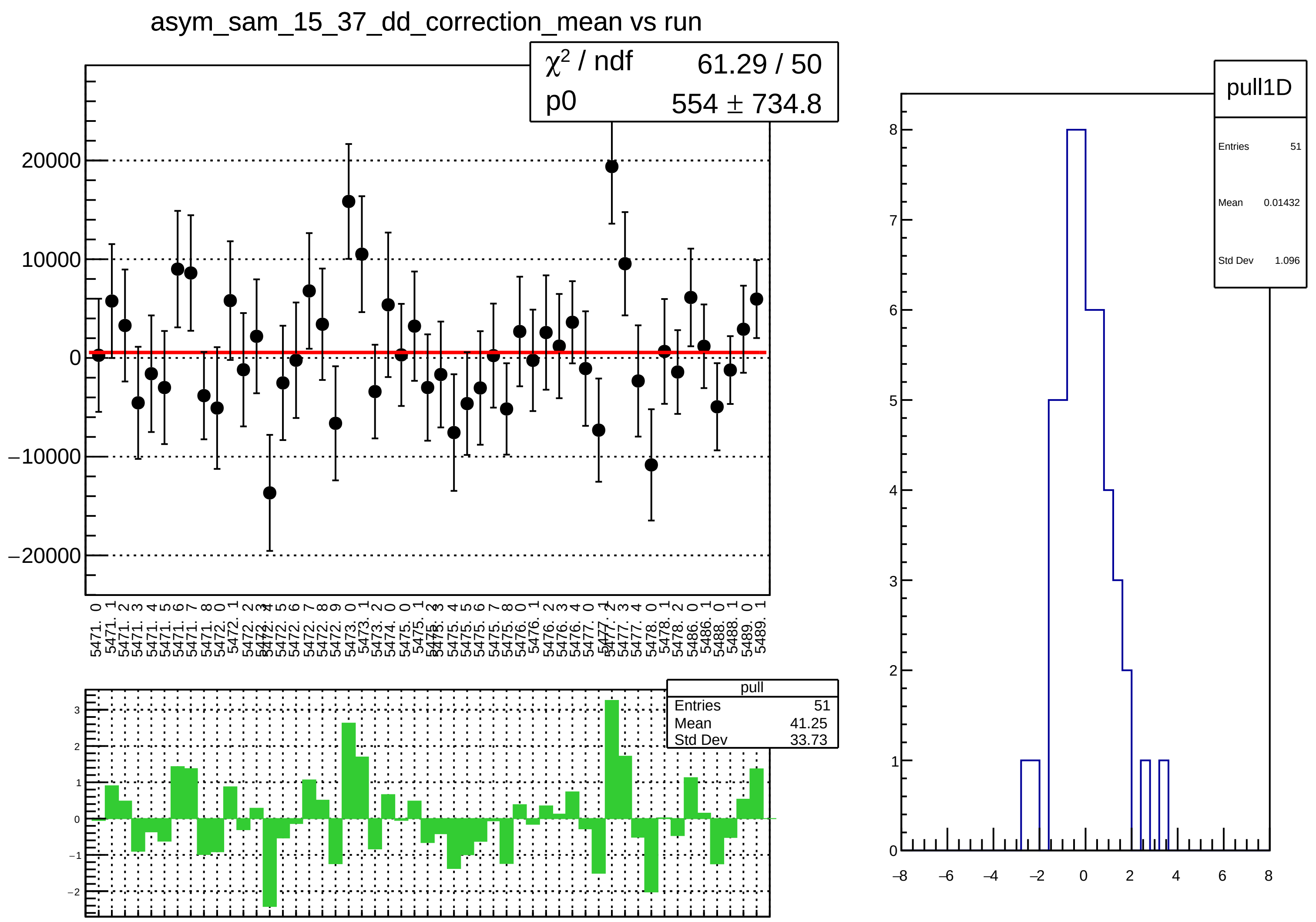


asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7119 / 50
p0 435.8 ± 0.4407
550
500
450
400
350

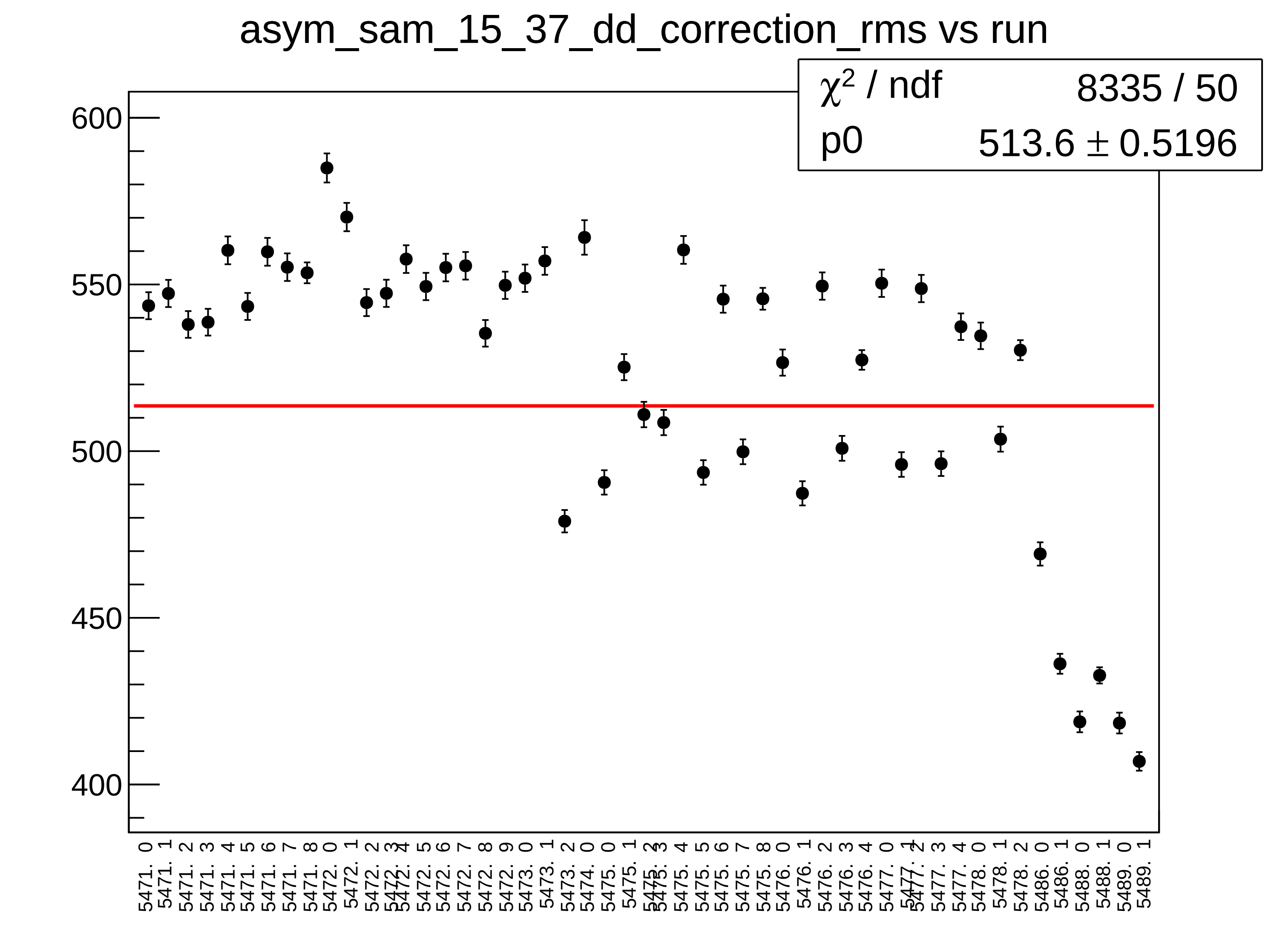


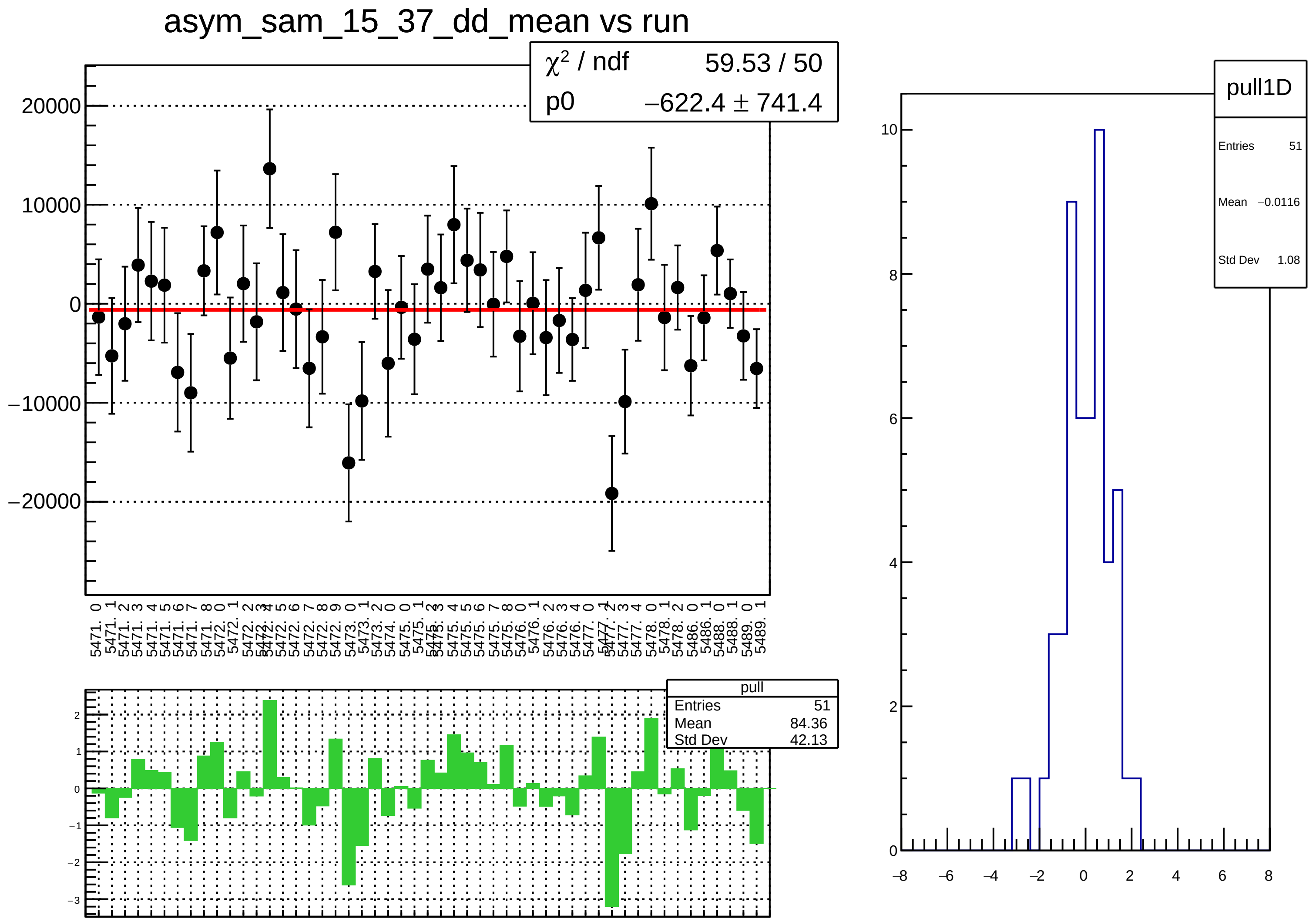
reg_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 40 / 50
p0 −147.1 ± 75.71
pull
Entries 51
Mean −21.04
Std Dev 45.31
pull1D
Entries 51
Mean 0.07159
Std Dev 0.8827


reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.298e+05 / 50
p0 49.52 ± 0.05354
120
110
100
90
80
70
60
50
40
30

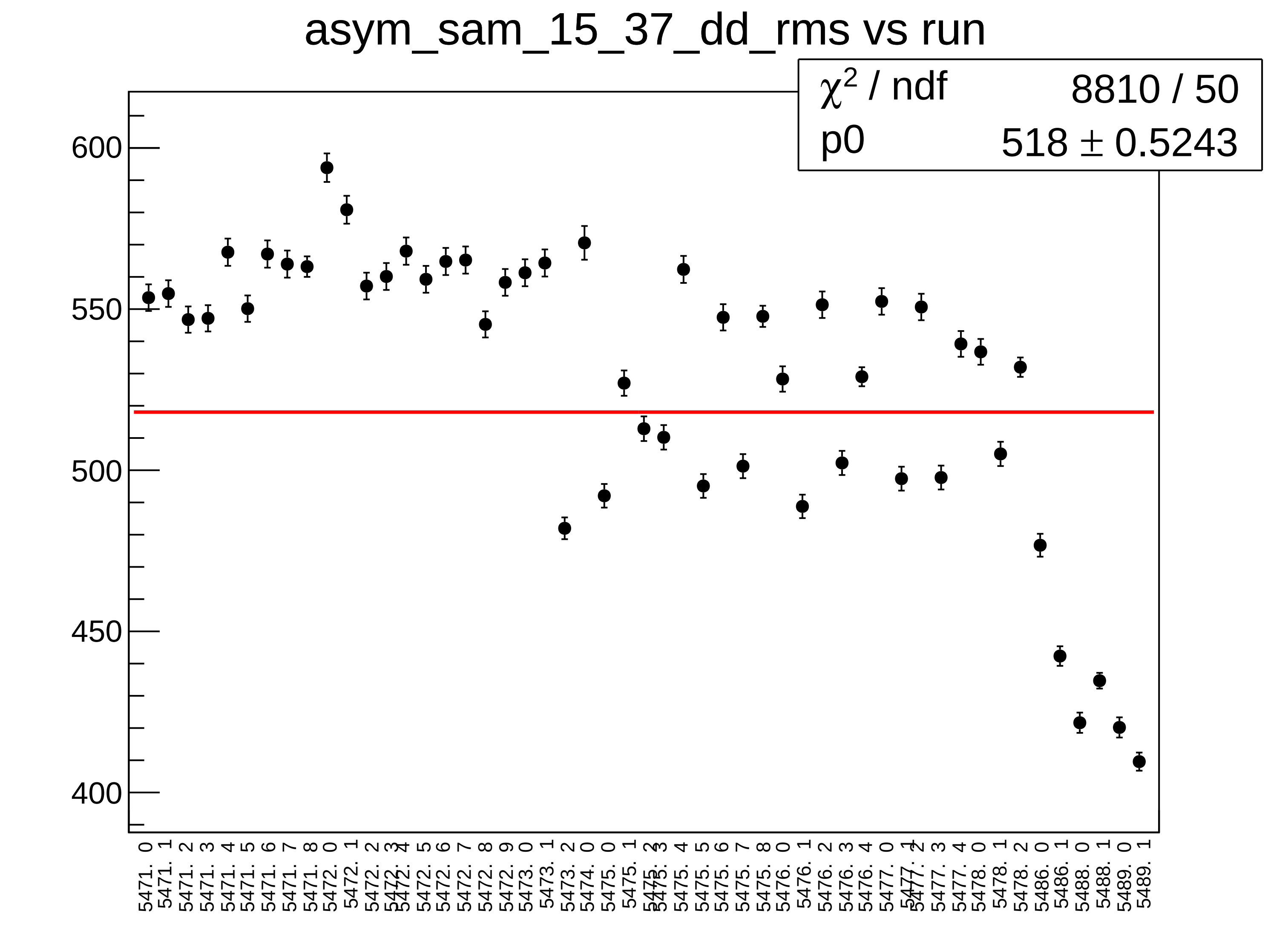


asym_sam_15_37_dd_correction_mean vs run
χ^2 / ndf 61.29 / 50
p0 554 ± 734.8
pull
Entries 51
Mean 41.25
Std Dev 33.73
pull1D
Entries 51
Mean 0.01432
Std Dev 1.096

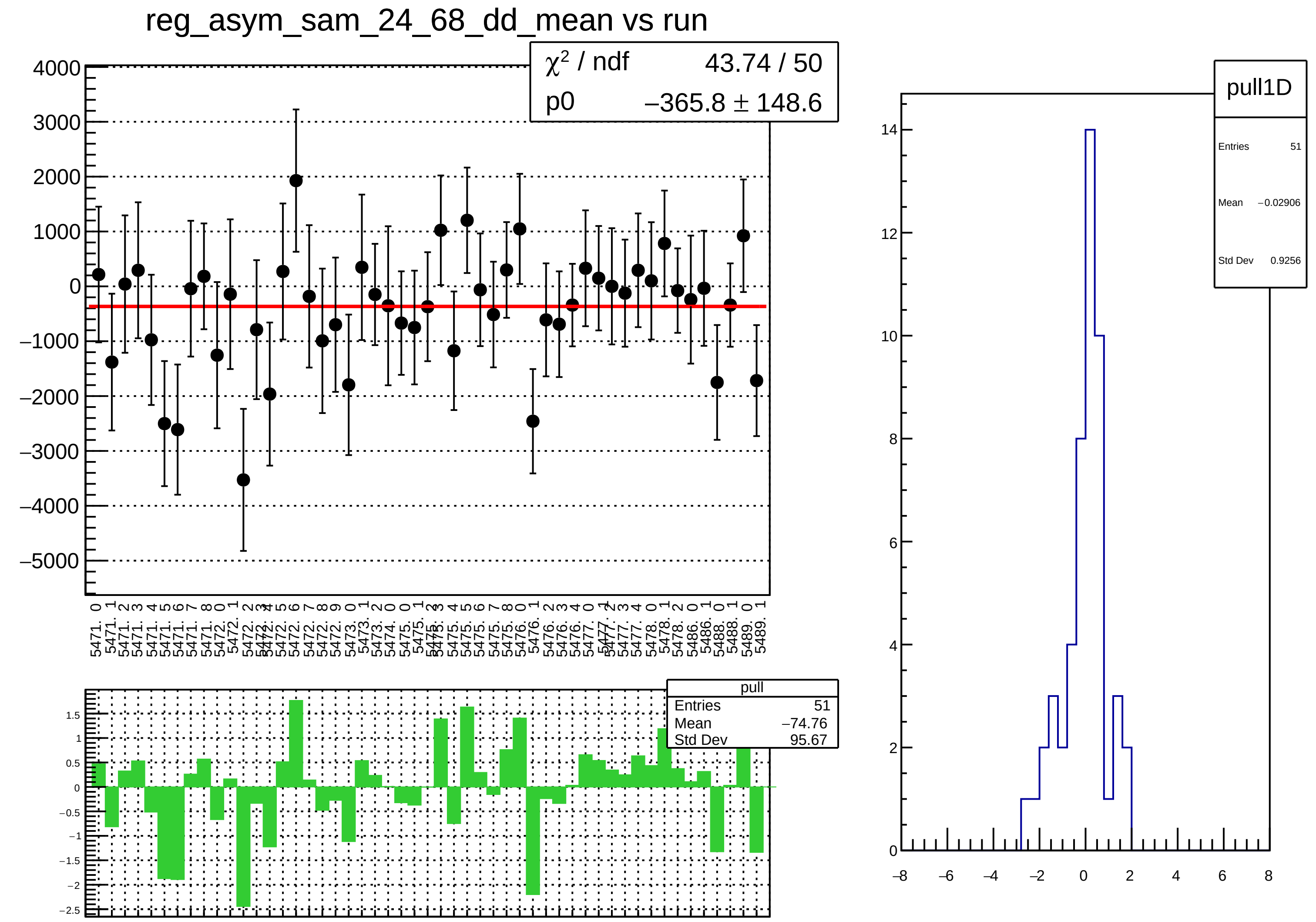

asym_sam_15_37_dd_correction_rms vs run
χ^2 / ndf 8335 / 50
p0 513.6 ± 0.5196
600
550
500
450
400



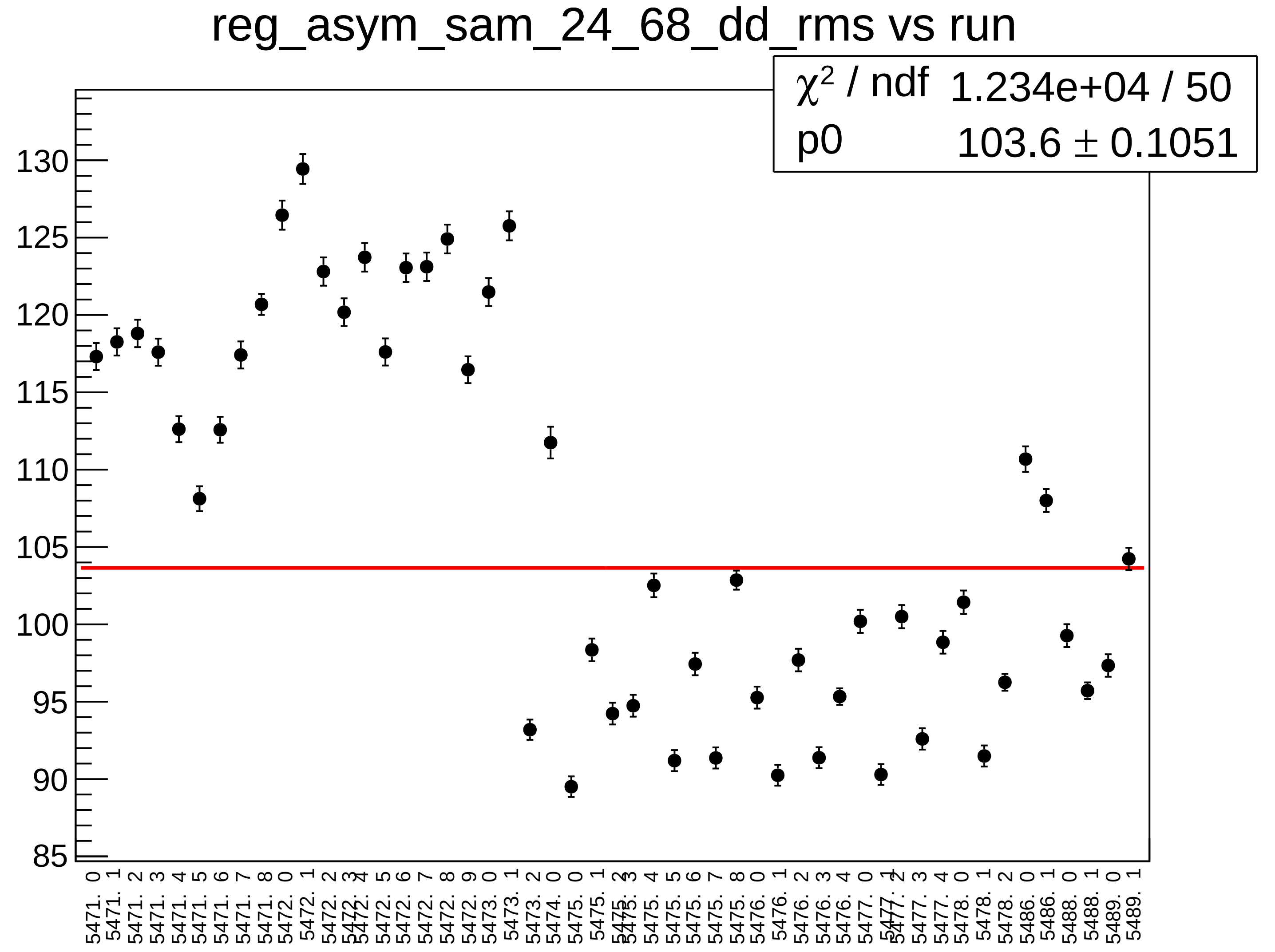
asym_sam_15_37_dd_mean vs run
χ2 / ndf 59.53 / 50
p0 −622.4 ± 741.4
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 84.36
Std Dev 42.13
pull1D
Entries 51
Mean −0.0116
Std Dev 1.08



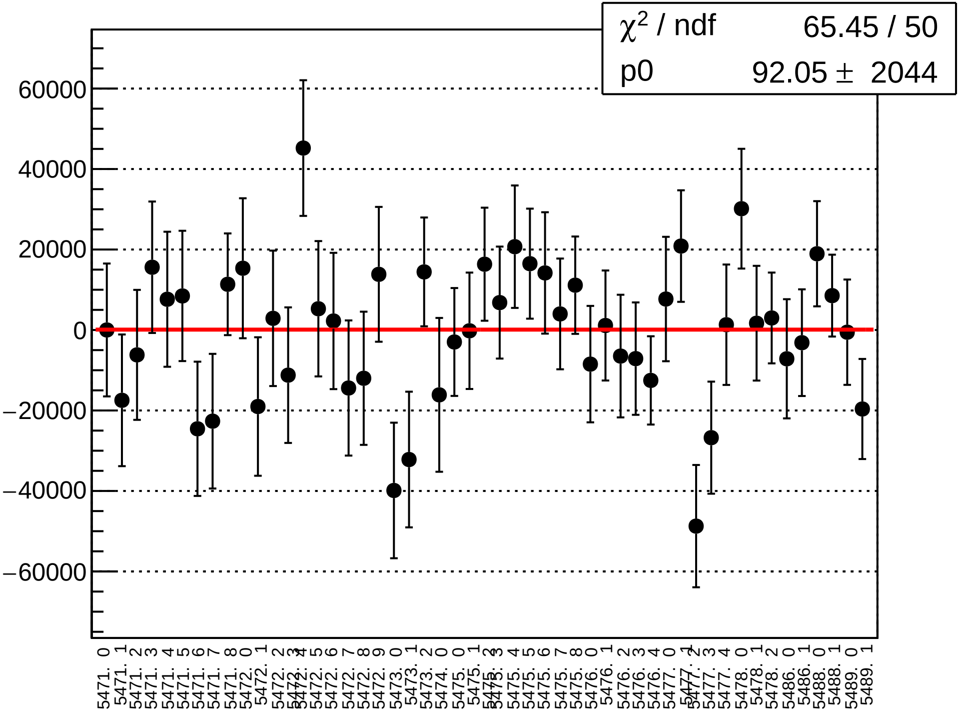
asym_sam_15_37_dd_rms vs run
χ^2 / ndf 8810 / 50
p0 518 ± 0.5243
600
550
500
450
400

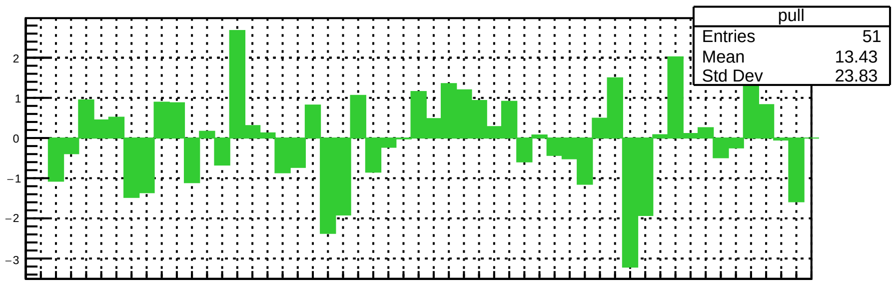


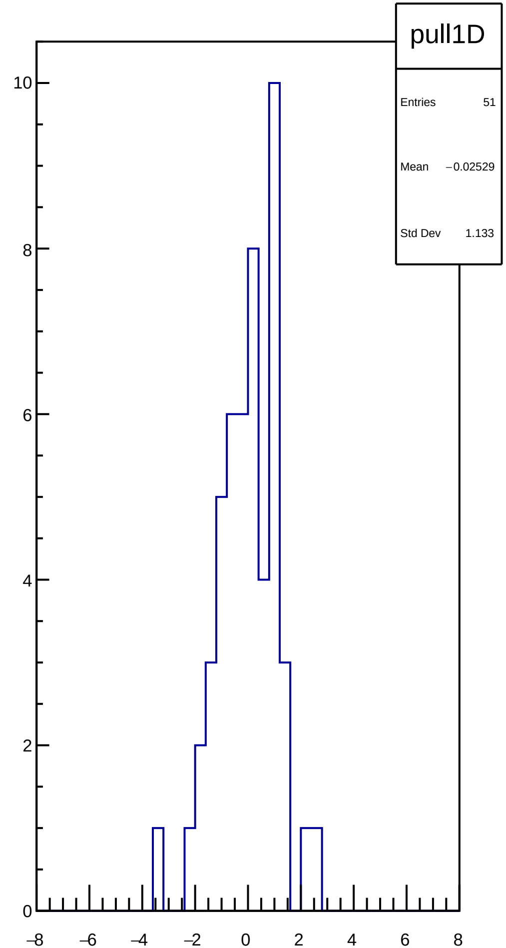
reg_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 43.74 / 50
p0 −365.8 ± 148.6
pull
Entries 51
Mean −74.76
Std Dev 95.67
pull1D
Entries 51
Mean −0.02906
Std Dev 0.9256

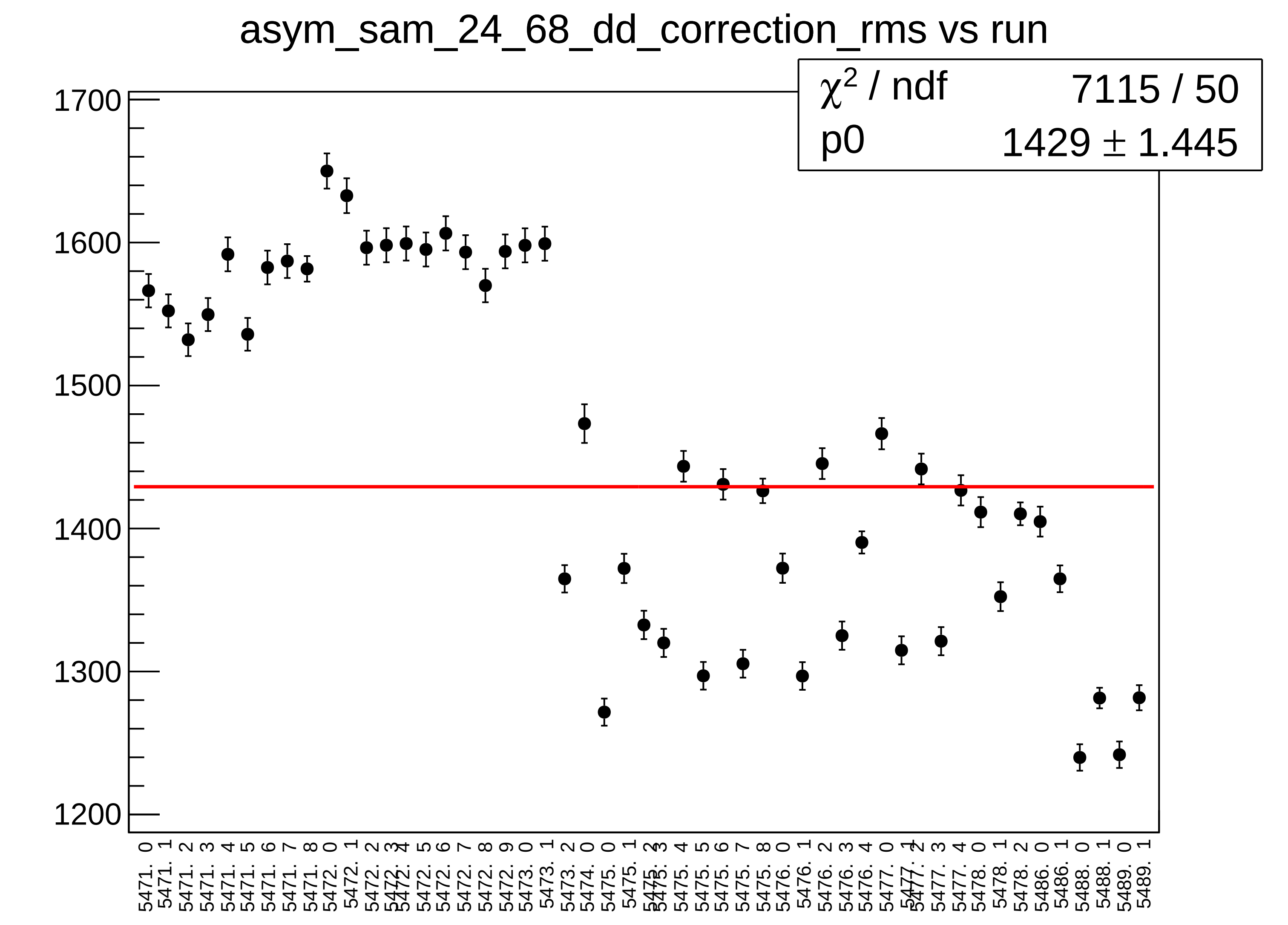

reg_asym_sam_24_68_dd_rms vs run
χ2 / ndf 1.234e+04 / 50
p0 103.6 ± 0.1051
130
125
120
115
110
105
100
95
90
85

asym_sam_24_68_dd_correction_mean vs run

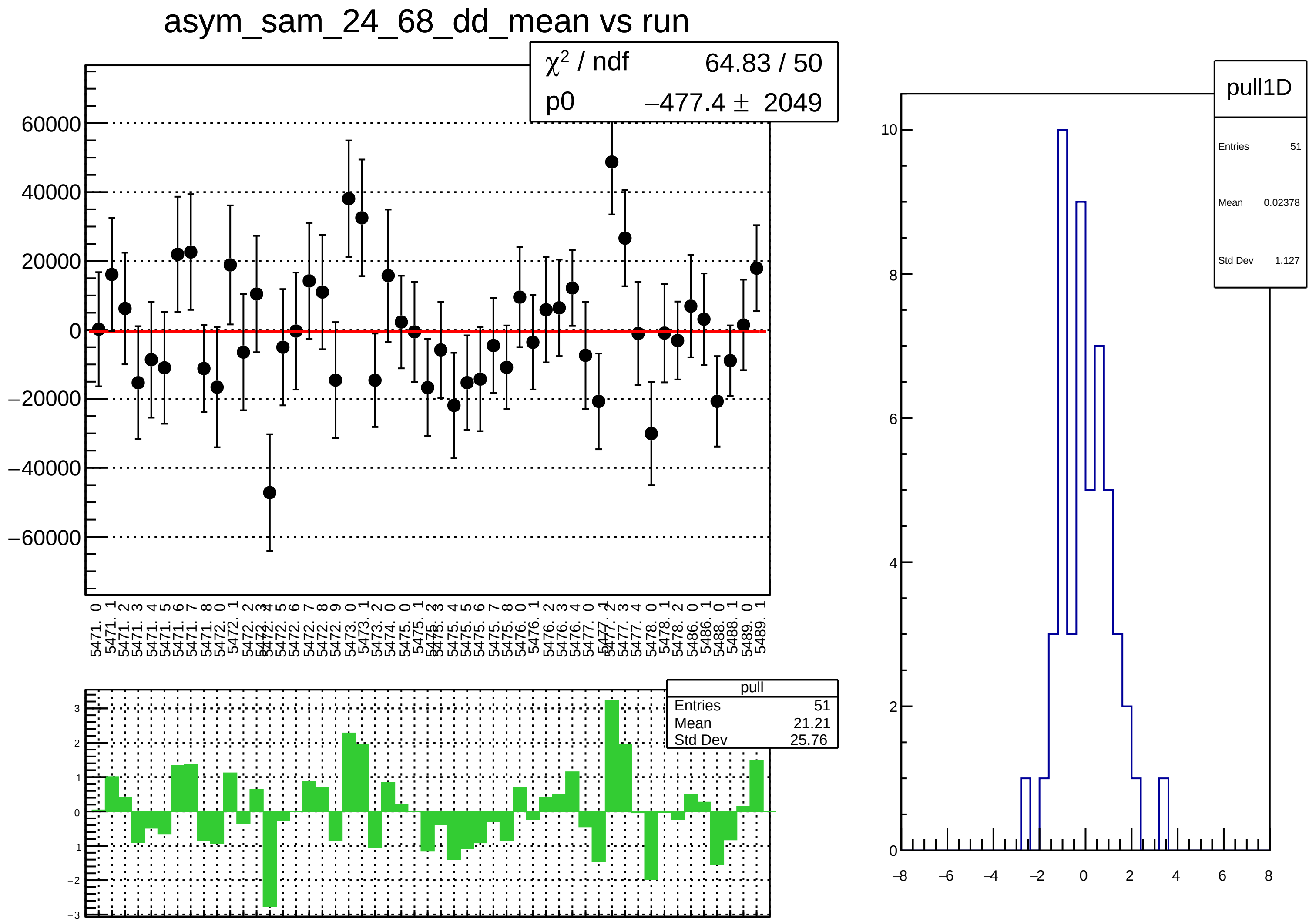




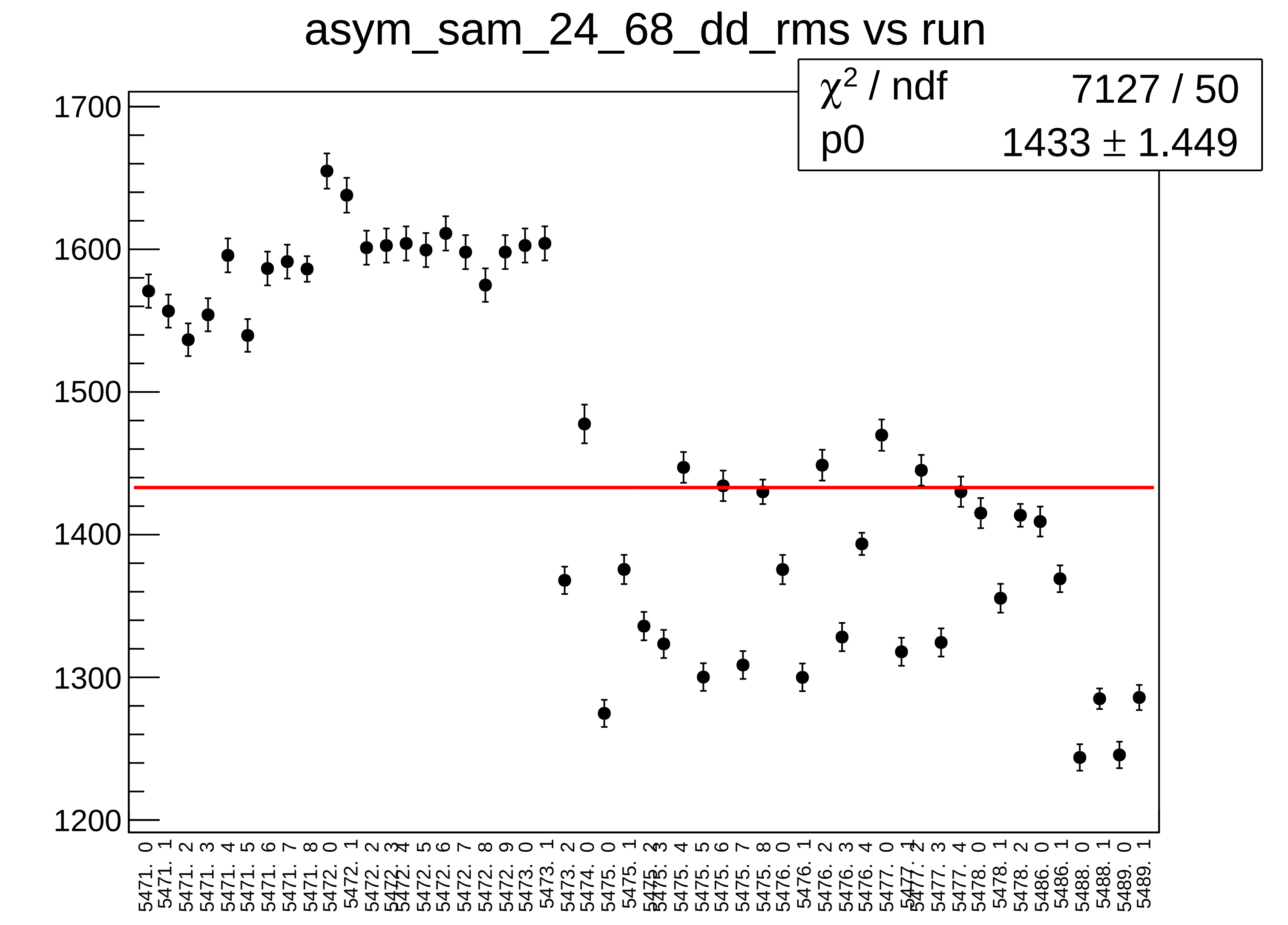




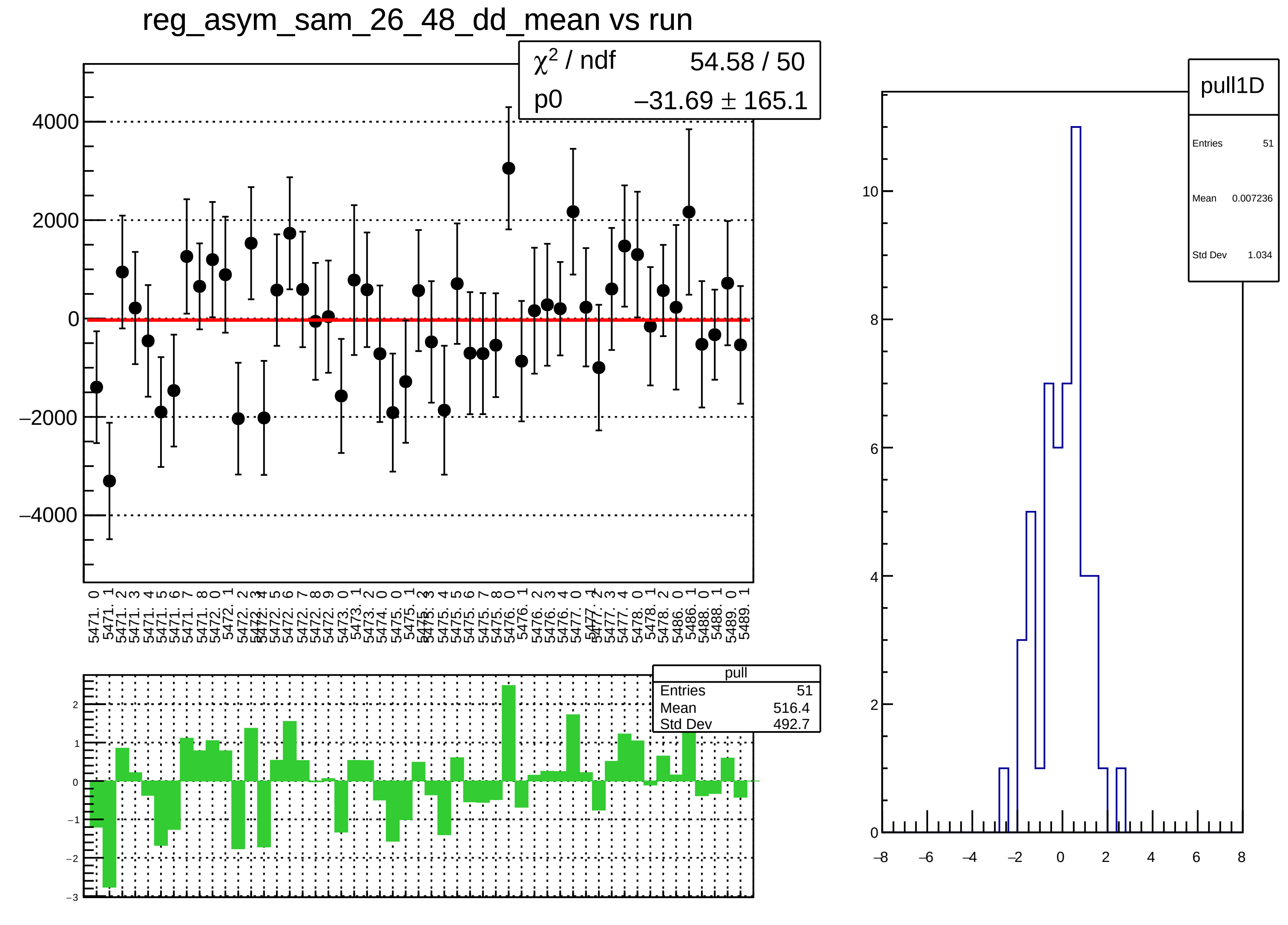
asym_sam_24_68_dd_correction_rms vs run
χ^2 / ndf 7115 / 50
p0 1429 ± 1.445
1700
1600
1500
1400
1300
1200
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



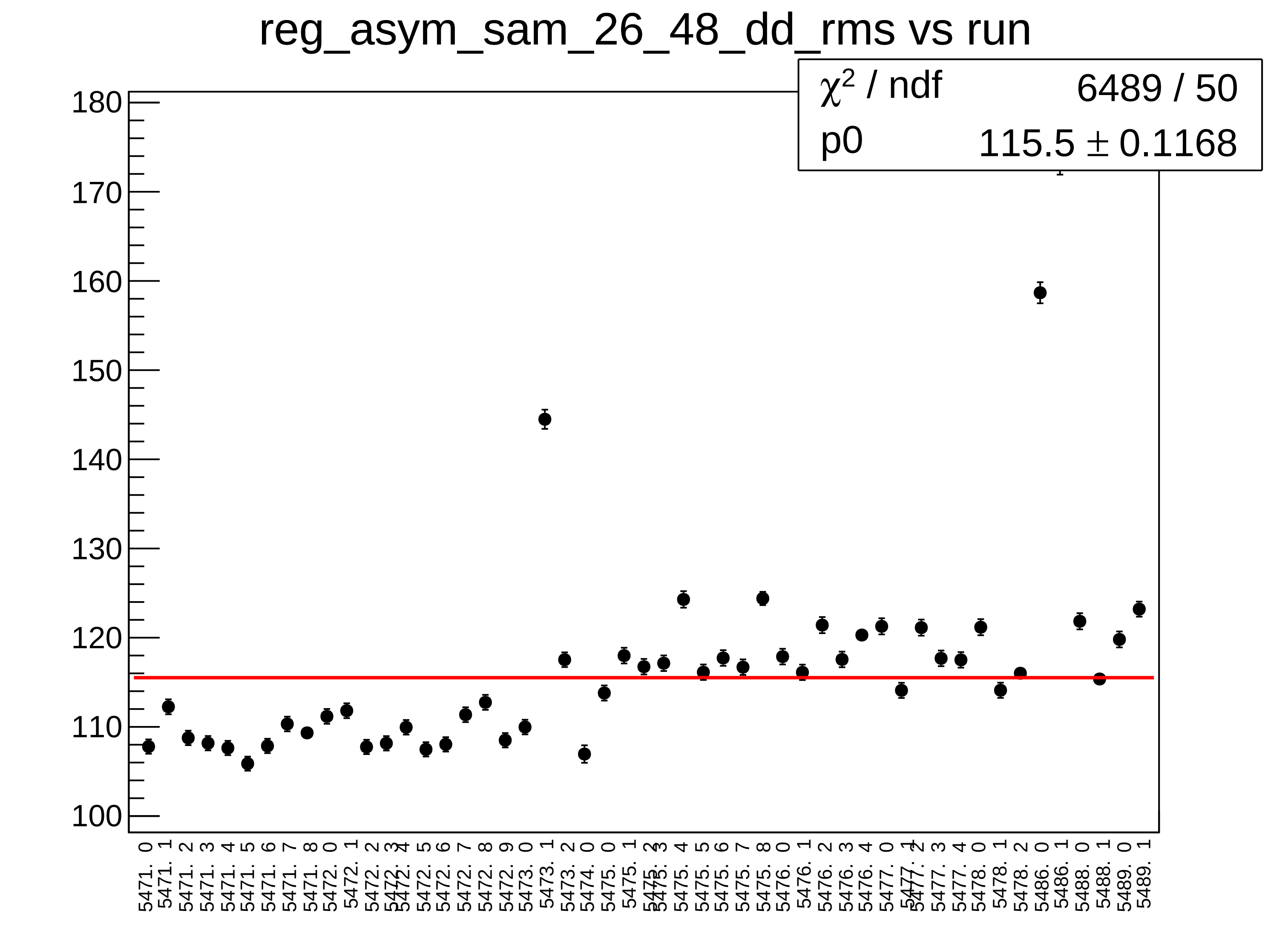
asym_sam_24_68_dd_mean vs run
χ^2 / ndf 64.83 / 50
p0 −477.4 ± 2049
pull
Entries 51
Mean 21.21
Std Dev 25.76
pull1D
Entries 51
Mean 0.02378
Std Dev 1.127



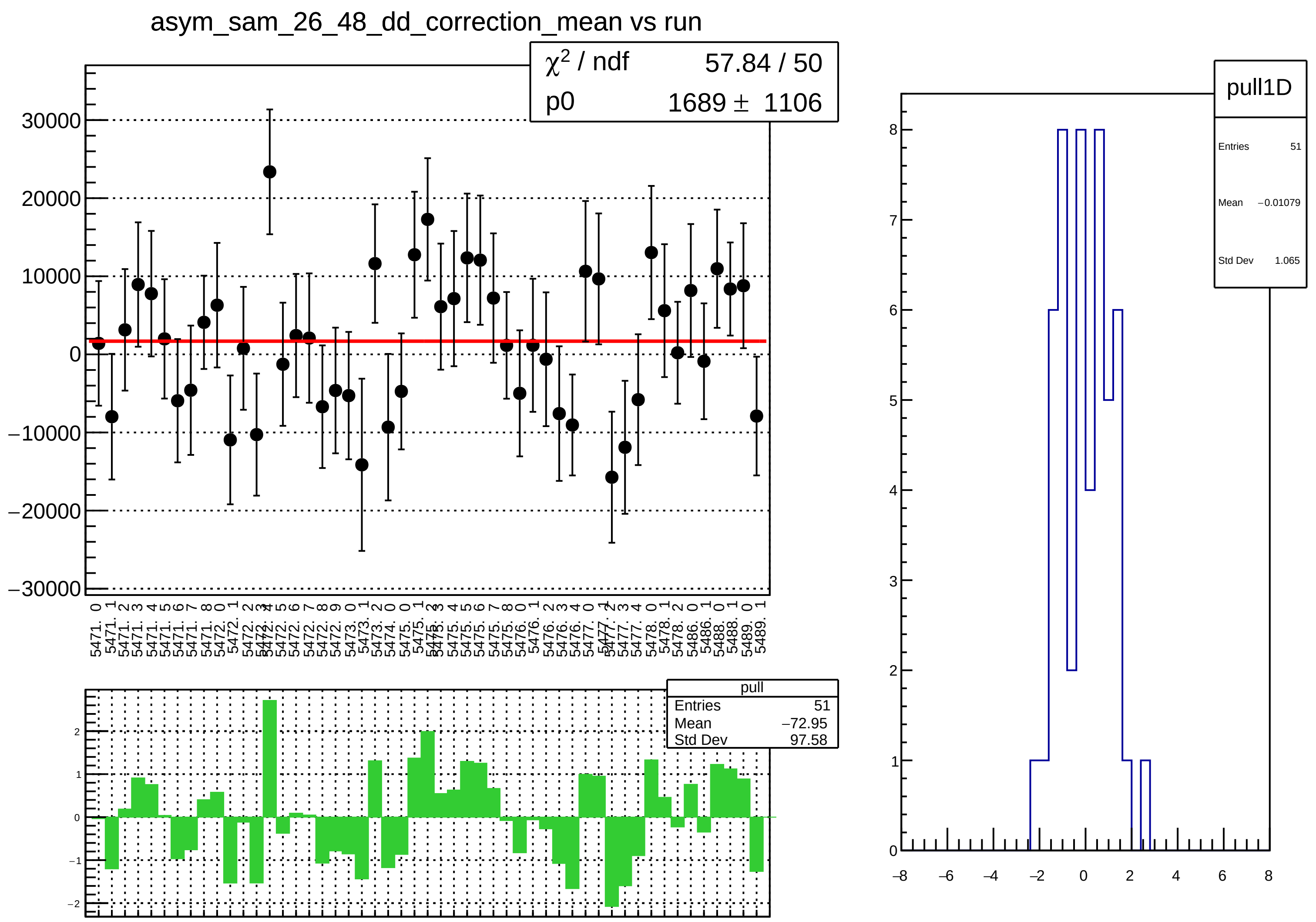
asym_sam_24_68_dd_rms vs run
χ^2 / ndf 7127 / 50
p0 1433 ± 1.449
1700
1600
1500
1400
1300
1200



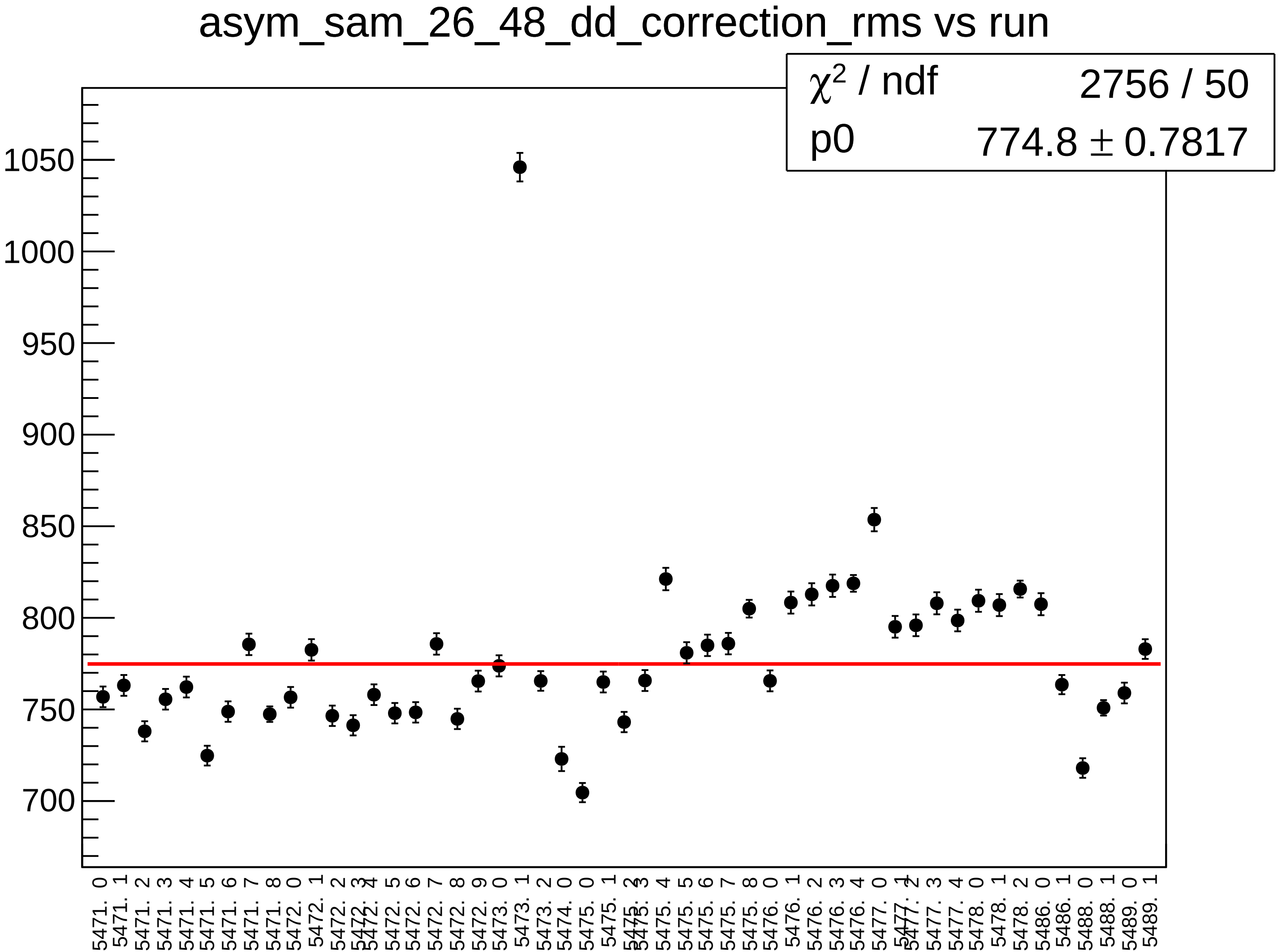
reg_asym_sam_26_48_dd_mean vs run
χ2 / ndf 54.58 / 50
p0 −31.69 ± 165.1
pull
Entries 51
Mean 516.4
Std Dev 492.7
pull1D
Entries 51
Mean 0.007236
Std Dev 1.034



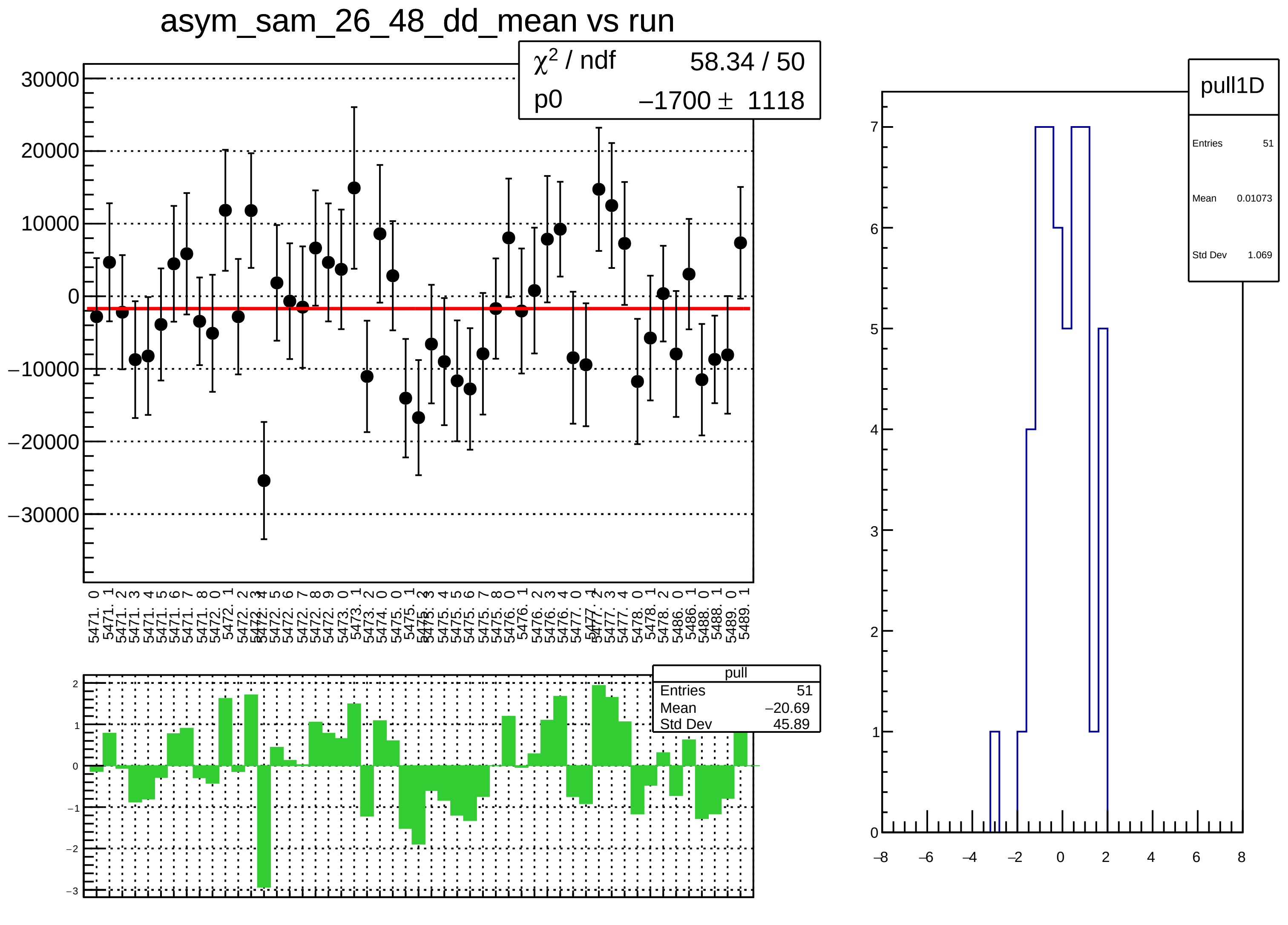
reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 6489 / 50
p0 115.5 ± 0.1168



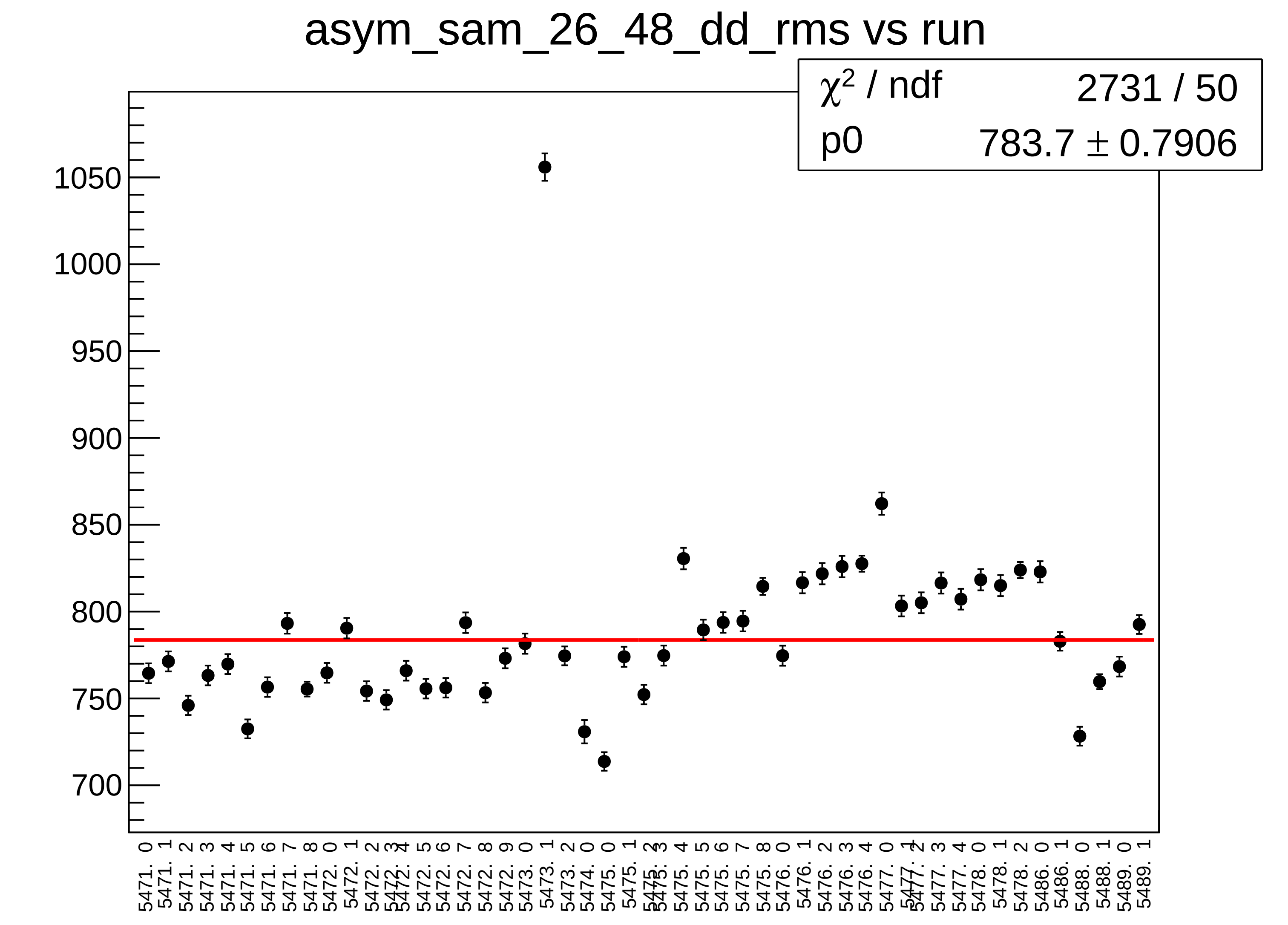
asym_sam_26_48_dd_correction_mean vs run
χ^2 / ndf 57.84 / 50
p0 1689 ± 1106
pull
Entries 51
Mean −72.95
Std Dev 97.58
pull1D
Entries 51
Mean −0.01079
Std Dev 1.065



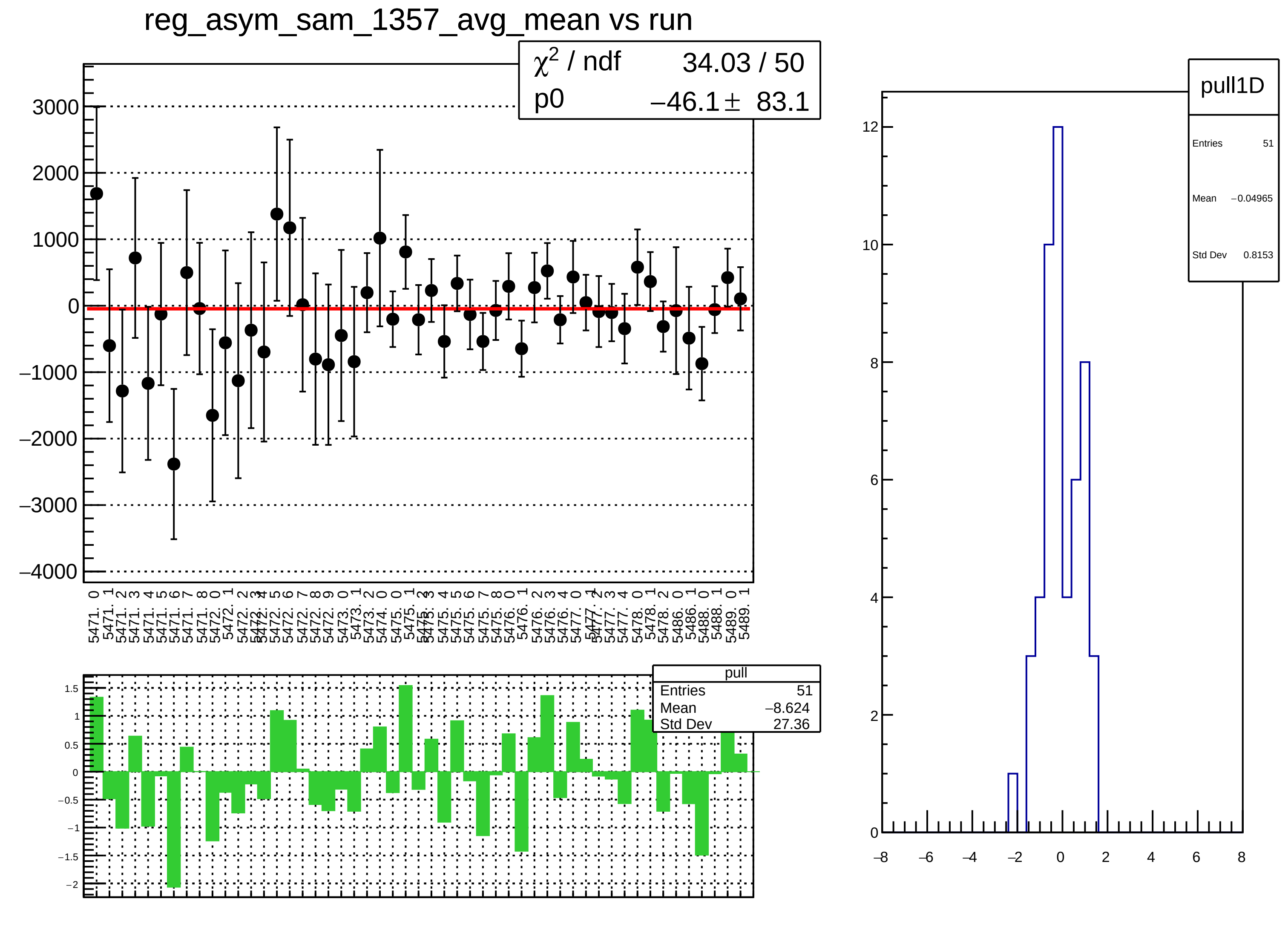
asym_sam_26_48_dd_correction_rms vs run
χ^2 / ndf 2756 / 50
p0 774.8 ± 0.7817
1050
1000
950
900
850
800
750
700



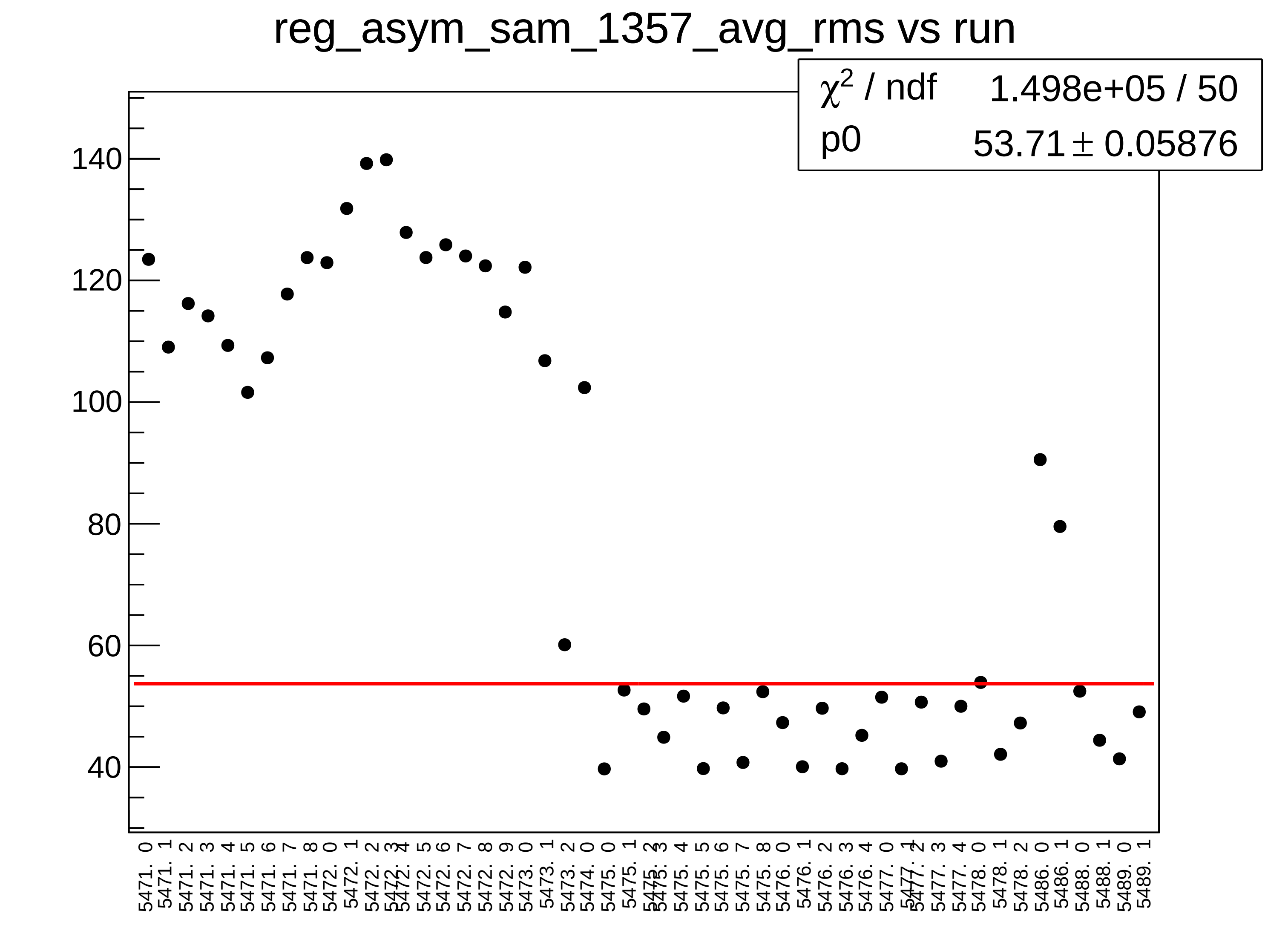
asym_sam_26_48_dd_mean vs run
χ2 / ndf 58.34 / 50
p0 −1700 ± 1118
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −20.69
Std Dev 45.89
pull1D
Entries 51
Mean 0.01073
Std Dev 1.069



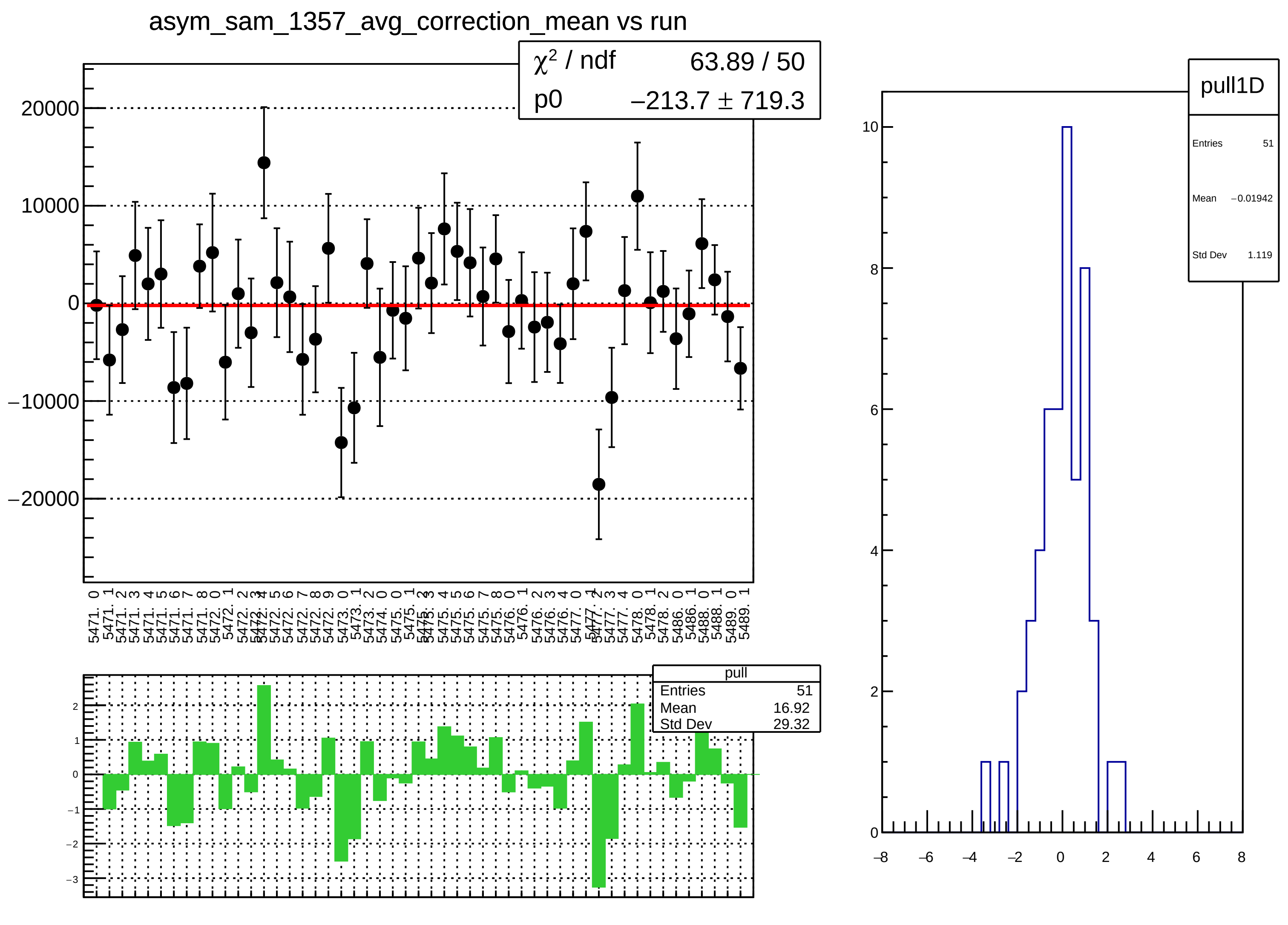
asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2731 / 50
p0 783.7 ± 0.7906
1050
1000
950
900
850
800
750
700



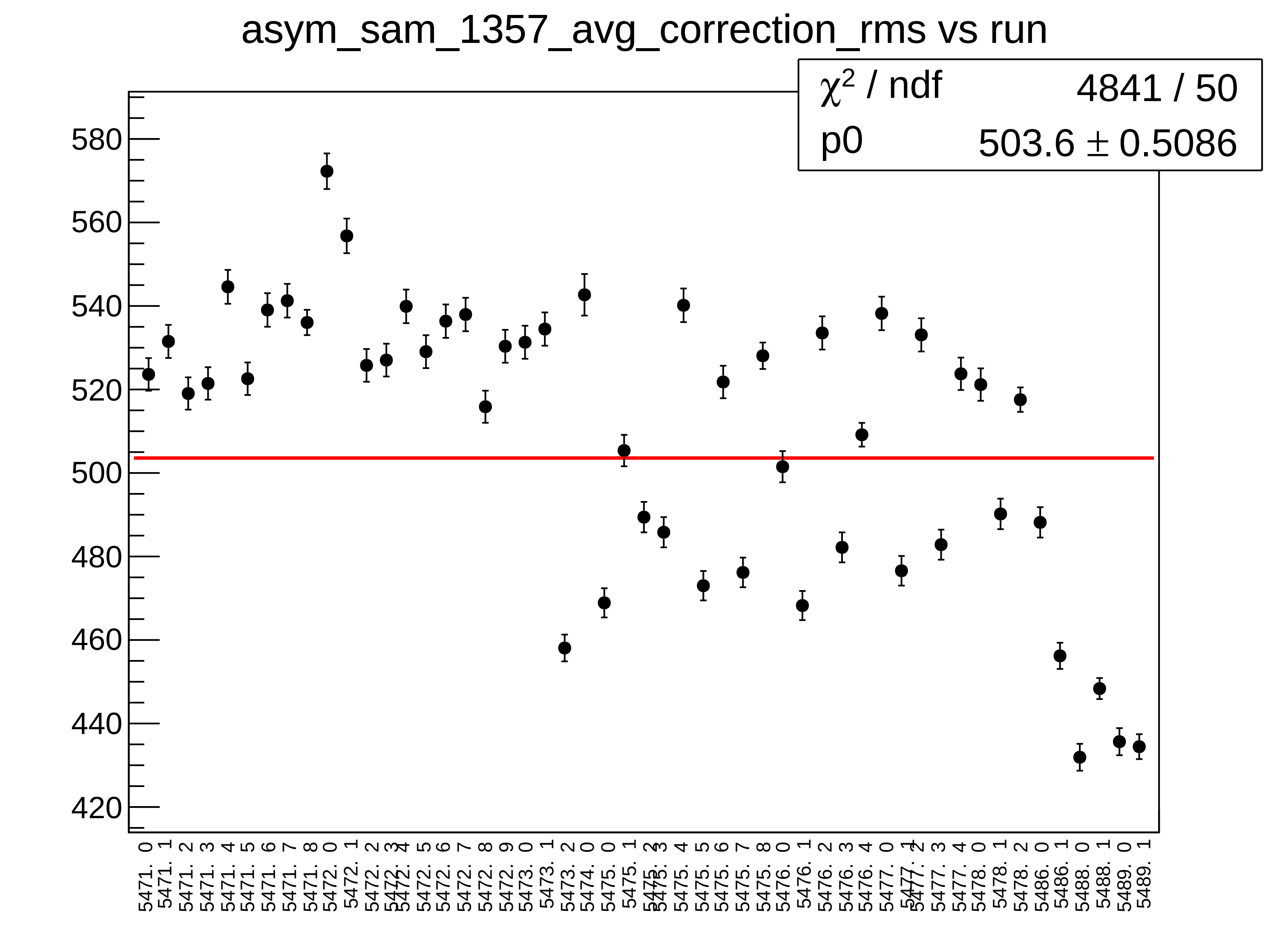
reg_asym_sam_1357_avg_mean vs run
χ^2 / ndf 34.03 / 50
p0 −46.1 ± 83.1
pull
Entries 51
Mean −8.624
Std Dev 27.36
pull1D
Entries 51
Mean −0.04965
Std Dev 0.8153

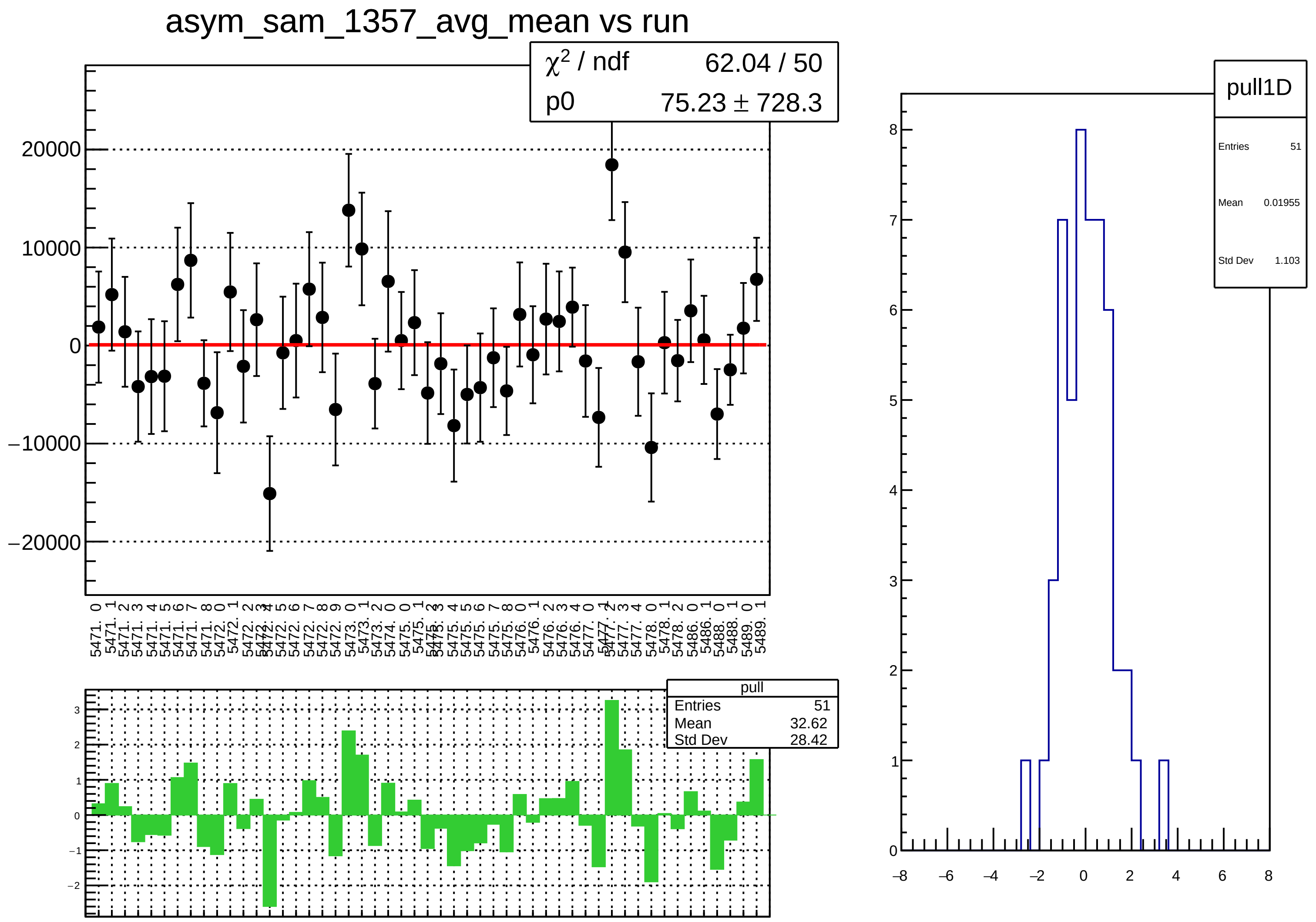


reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.498e+05 / 50
p0 53.71 ± 0.05876
140
120
100
80
60
40

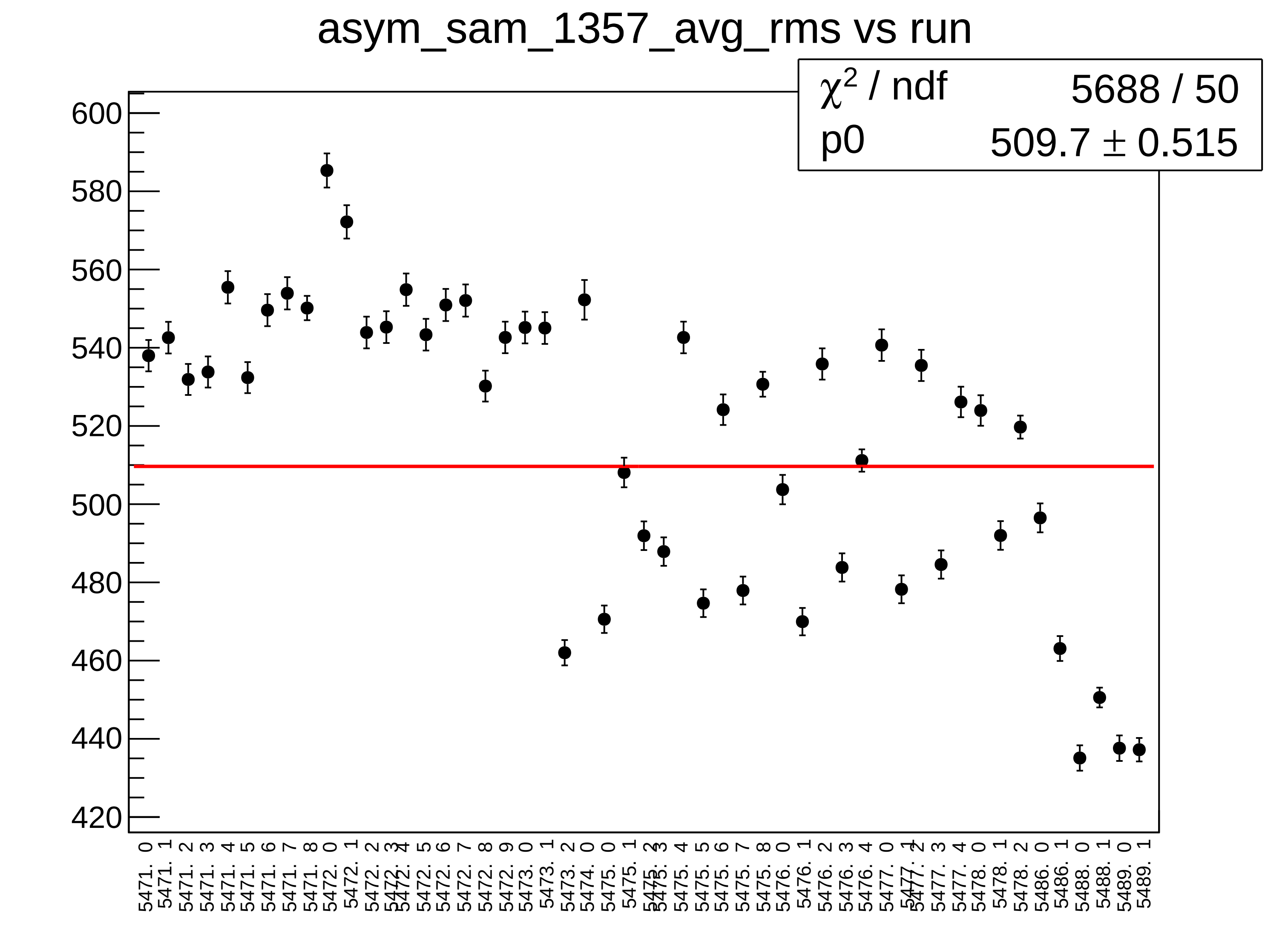


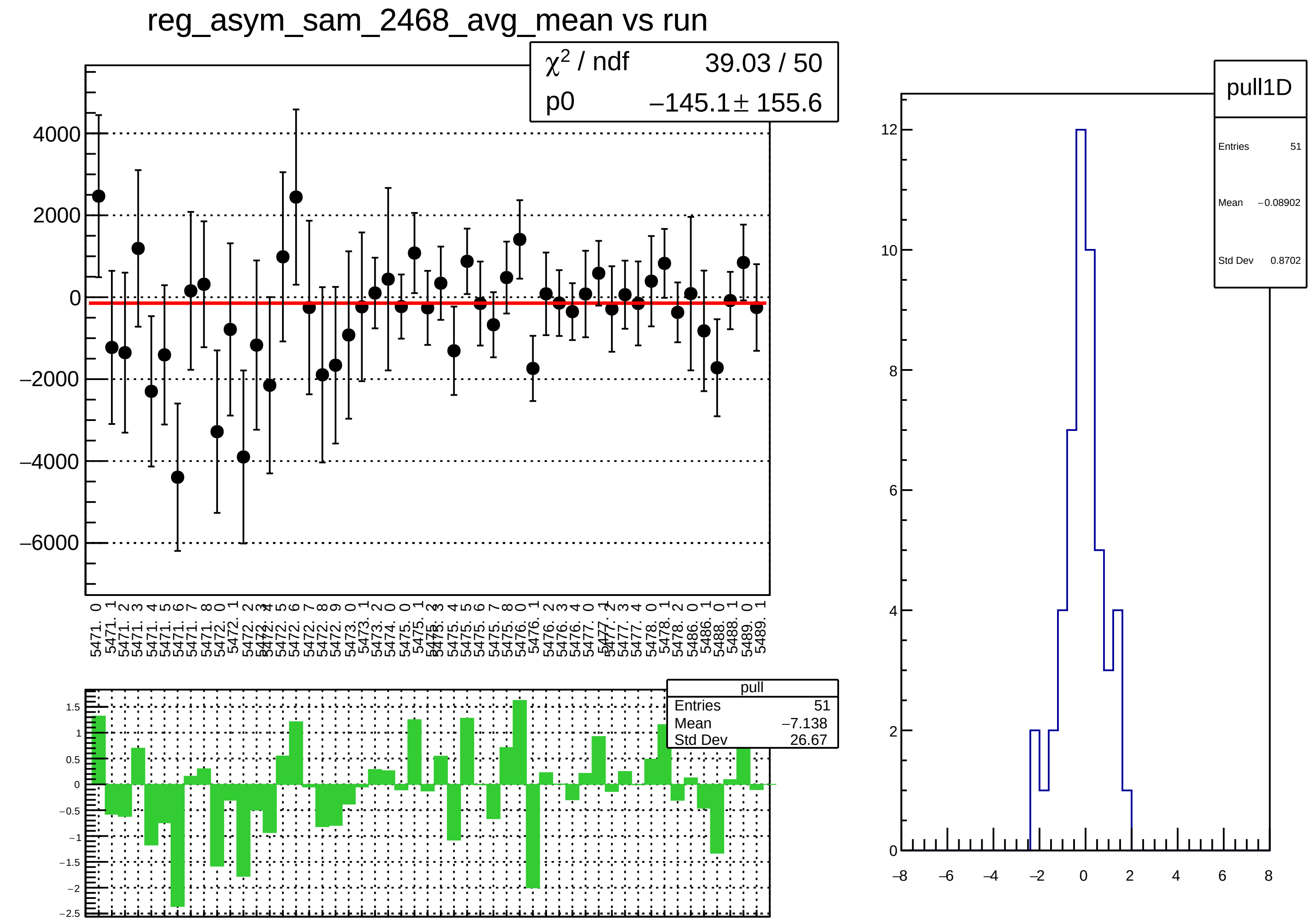
asym_sam_1357_avg_correction_mean vs run
χ^2 / ndf 63.89 / 50
p0 −213.7 ± 719.3
pull
Entries 51
Mean 16.92
Std Dev 29.32
pull1D
Entries 51
Mean −0.01942
Std Dev 1.119


asym_sam_1357_avg_correction_rms vs run
χ^2 / ndf 4841 / 50
p0 503.6 ± 0.5086
580
560
540
520
500
480
460
440
420

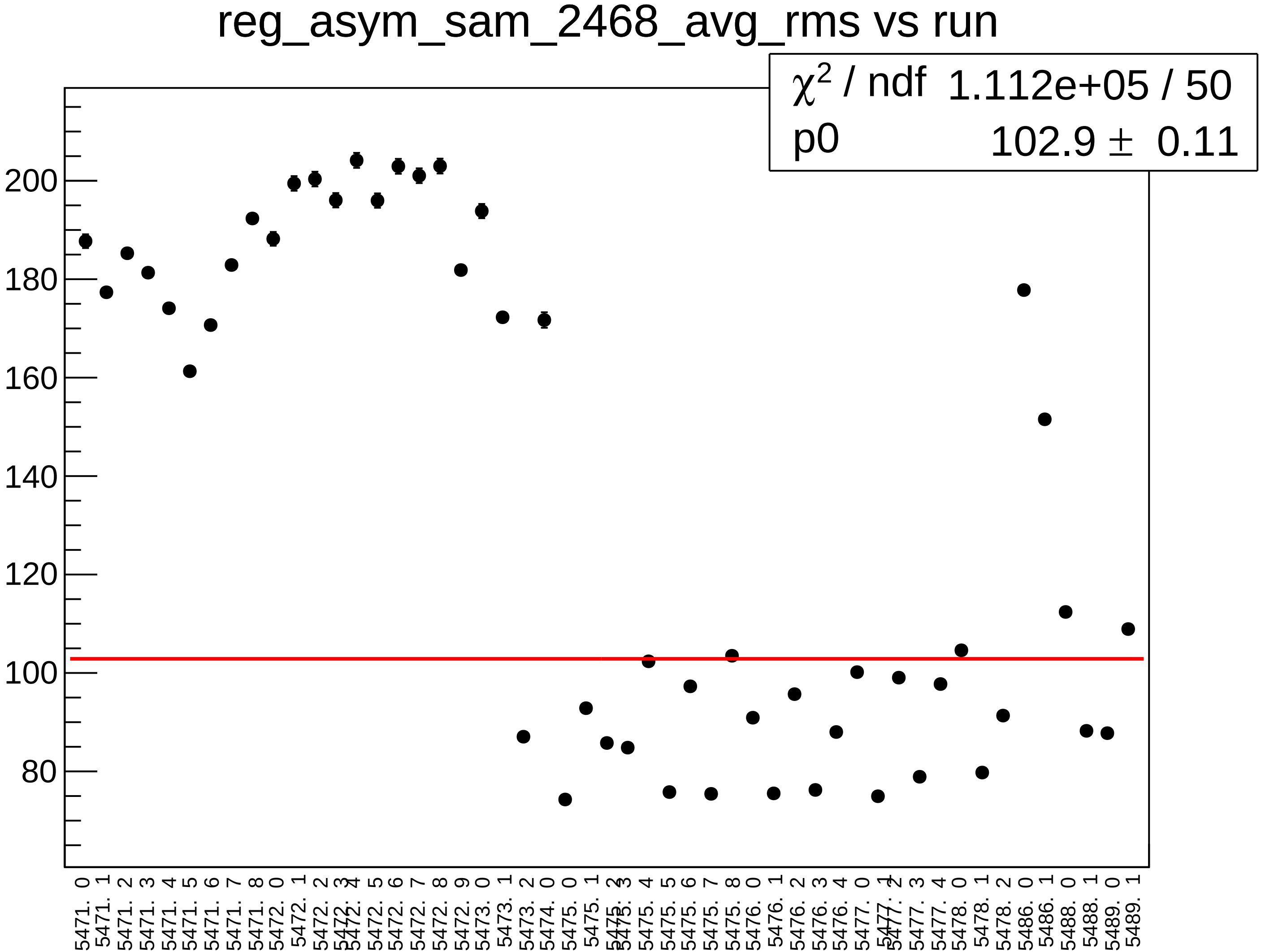


asym_sam_1357_avg_mean vs run
χ2 / ndf 62.04 / 50
p0 75.23 ± 728.3
pull
Entries 51
Mean 32.62
Std Dev 28.42
pull1D
Entries 51
Mean 0.01955
Std Dev 1.103

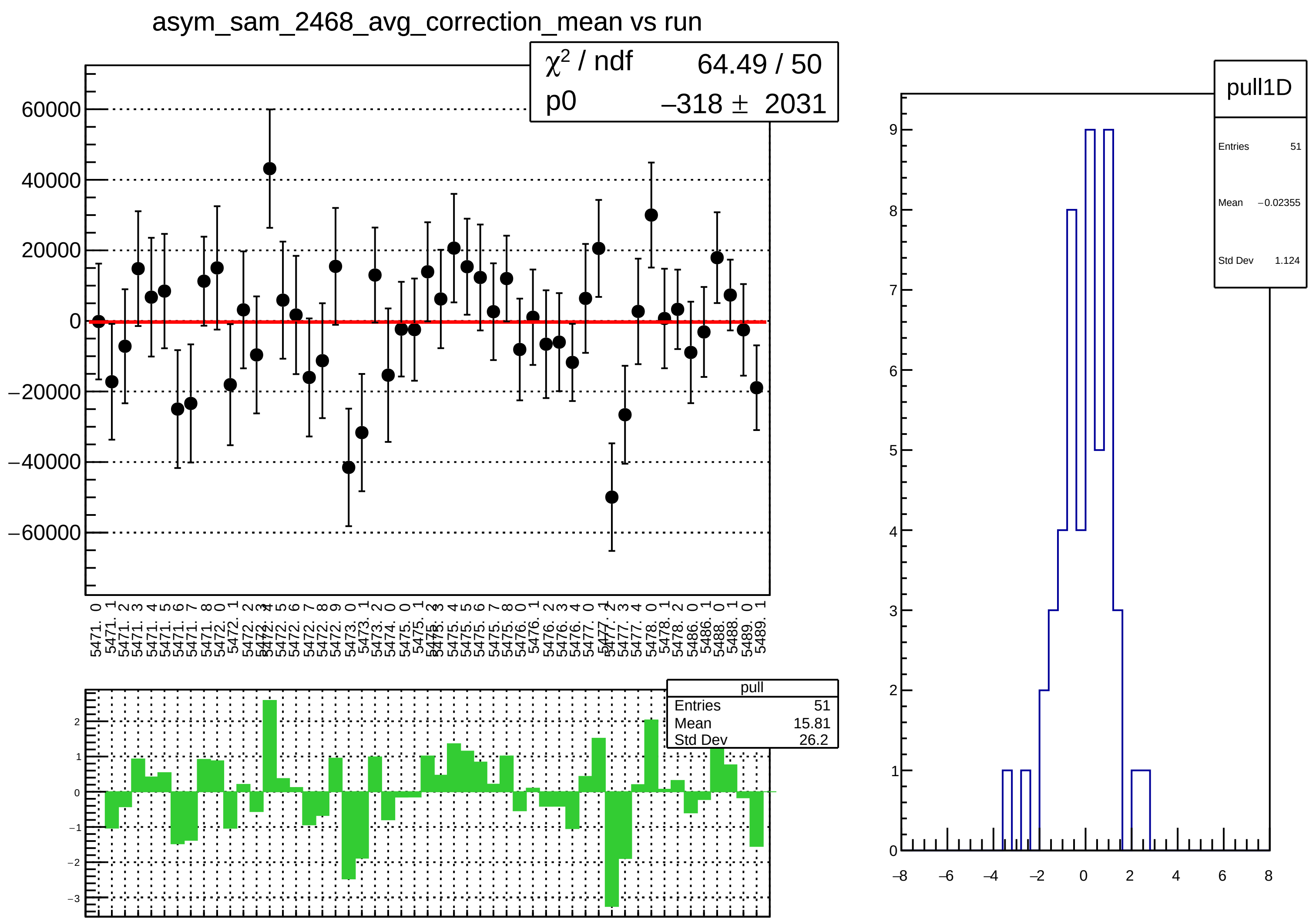

asym_sam_1357_avg_rms vs run
χ2 / ndf 5688 / 50
p0 509.7 ± 0.515
600
580
560
540
520
500
480
460
440
420



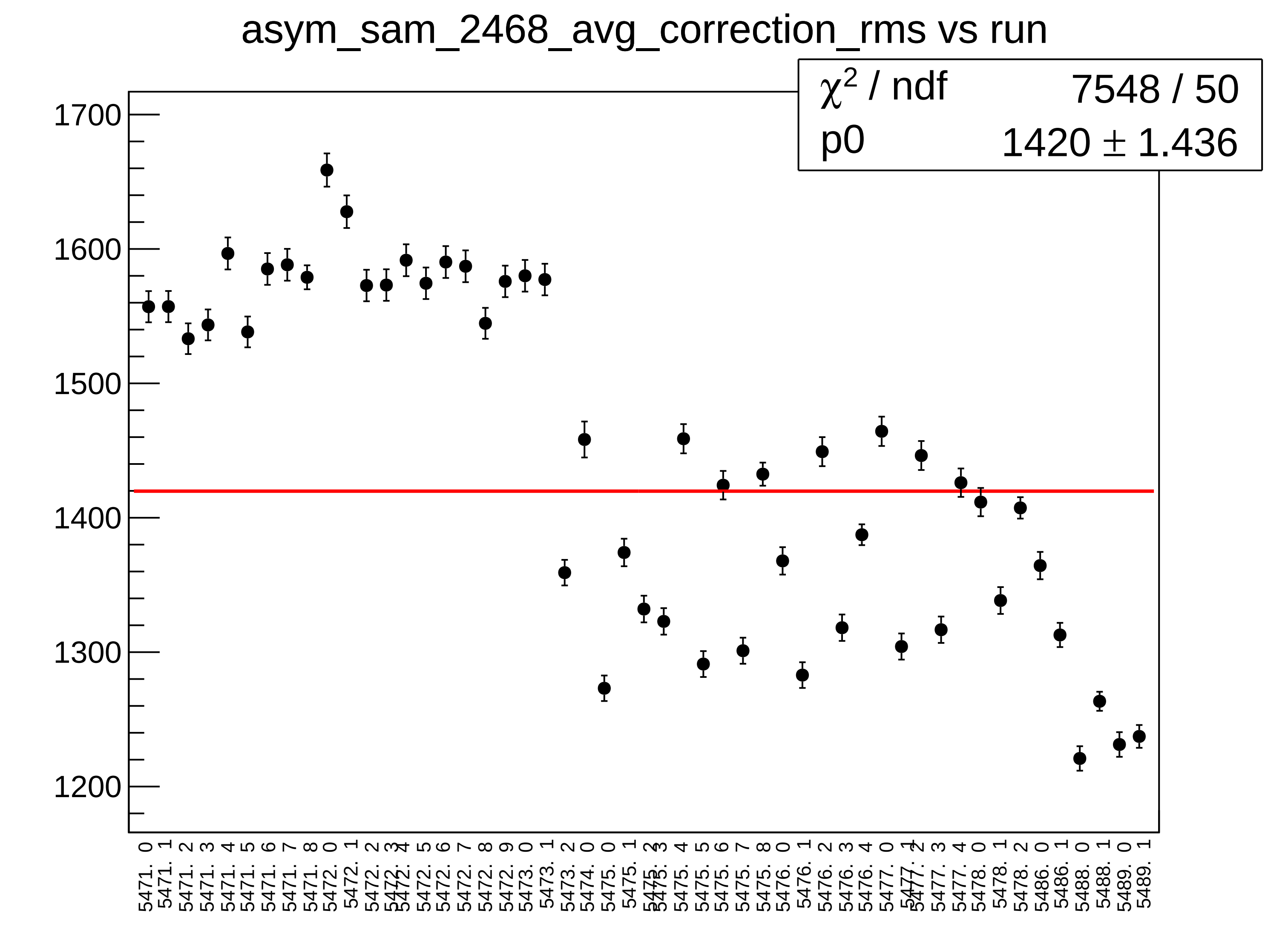
reg_asym_sam_2468_avg_mean vs run
χ^2 / ndf 39.03 / 50
p0 −145.1 ± 155.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean −7.138
Std Dev 26.67
pull1D
Entries 51
Mean −0.08902
Std Dev 0.8702



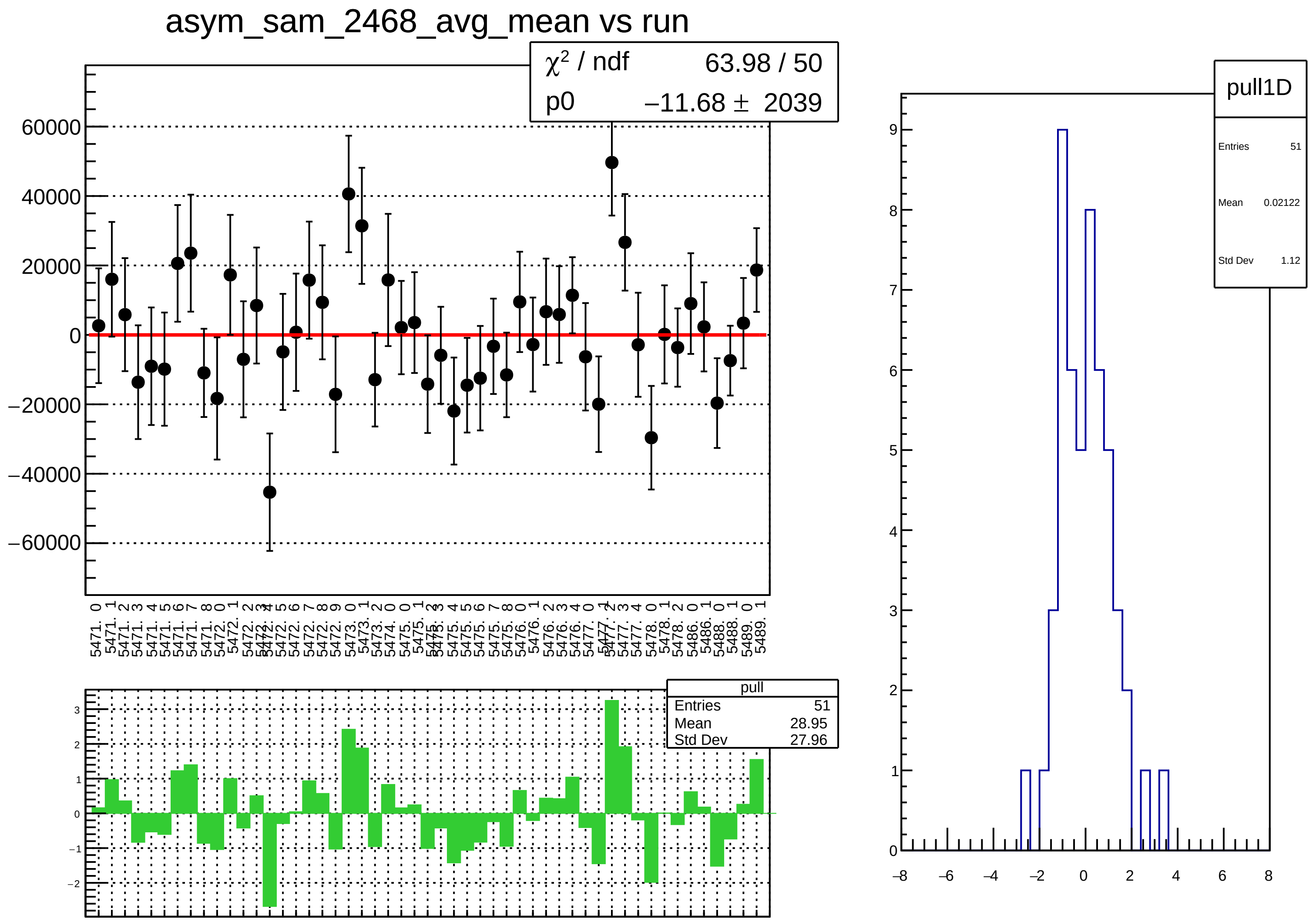
reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.112e+05 / 50
p0 102.9 ± 0.11
200
180
160
140
120
100
80



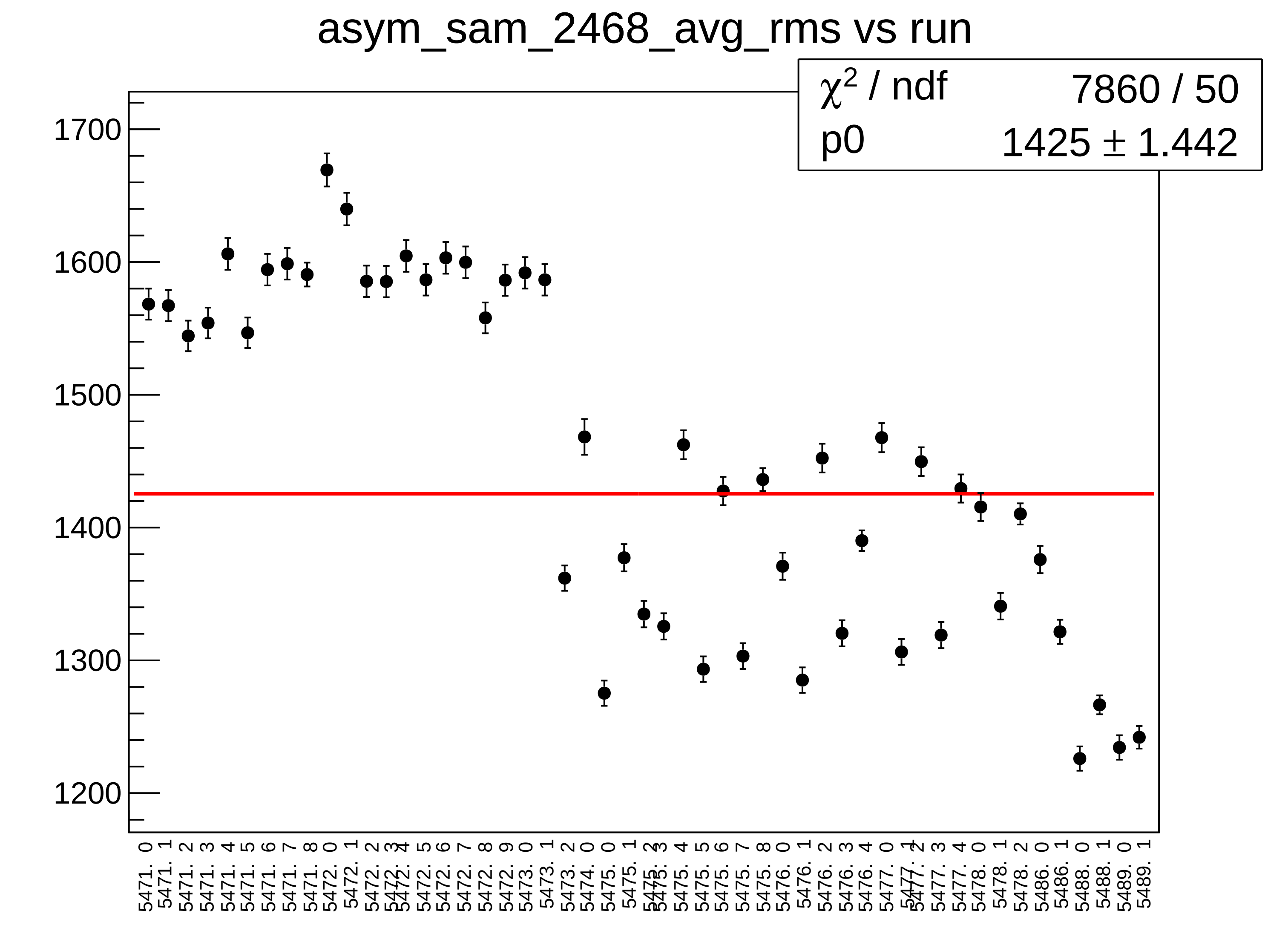
asym_sam_2468_avg_correction_mean vs run
χ2 / ndf 64.49 / 50
p0 −318 ± 2031
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 15.81
Std Dev 26.2
pull1D
Entries 51
Mean −0.02355
Std Dev 1.124

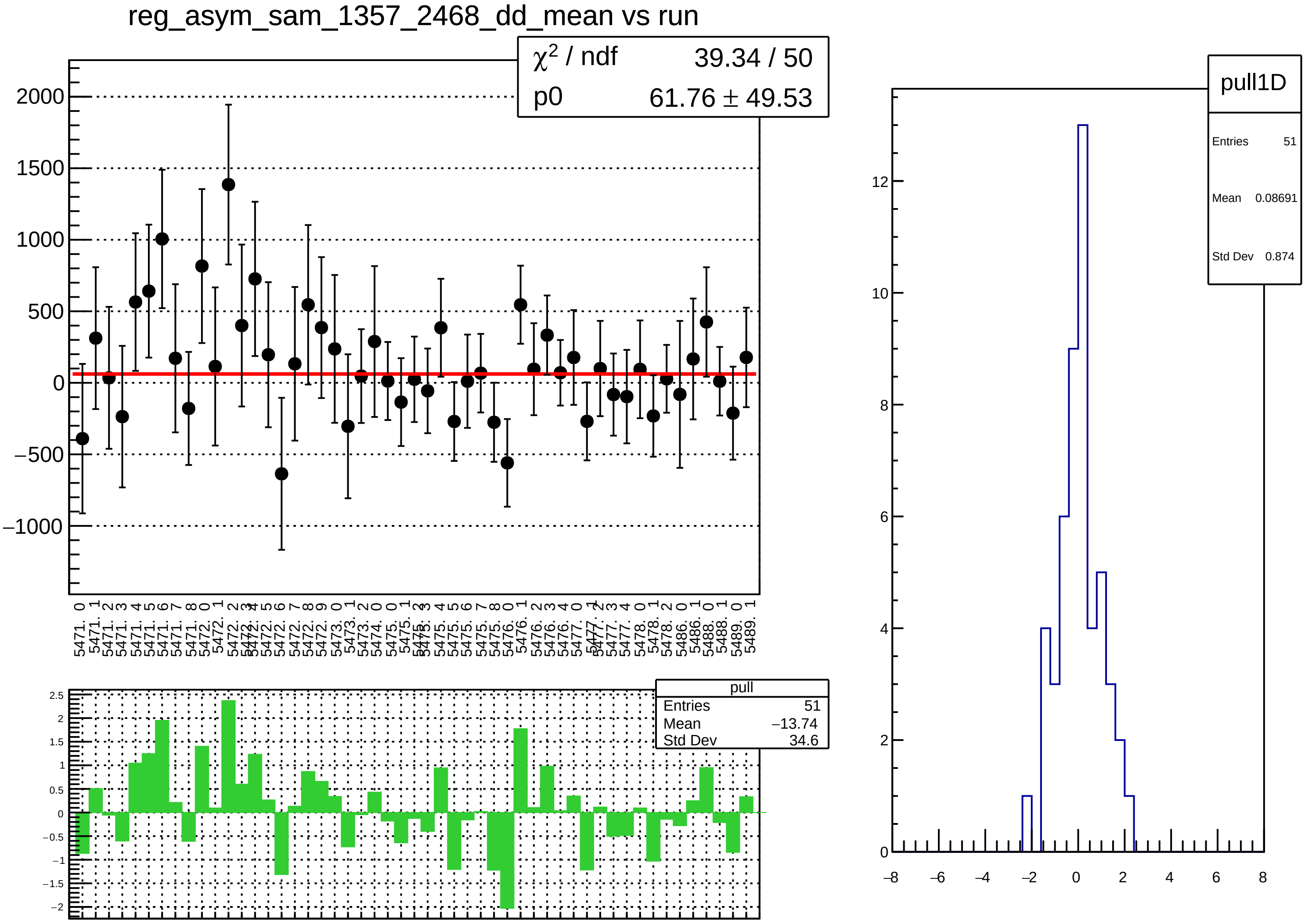


asym_sam_2468_avg_correction_rms vs run
χ^2 / ndf 7548 / 50
p0 1420 ± 1.436
1700
1600
1500
1400
1300
1200

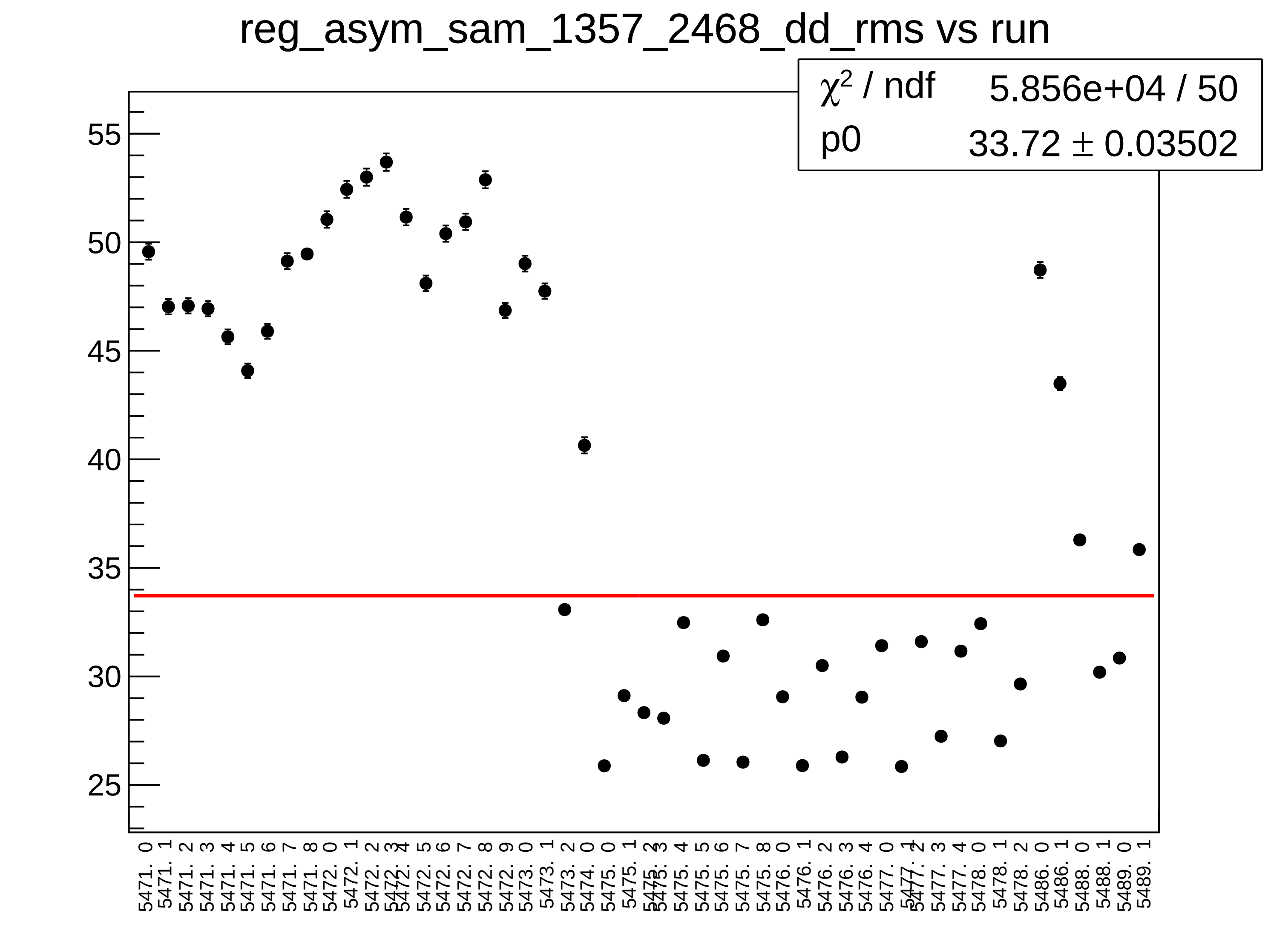


asym_sam_2468_avg_mean vs run
χ^2 / ndf 63.98 / 50
p0 −11.68 ± 2039
pull
Entries 51
Mean 28.95
Std Dev 27.96
pull1D
Entries 51
Mean 0.02122
Std Dev 1.12

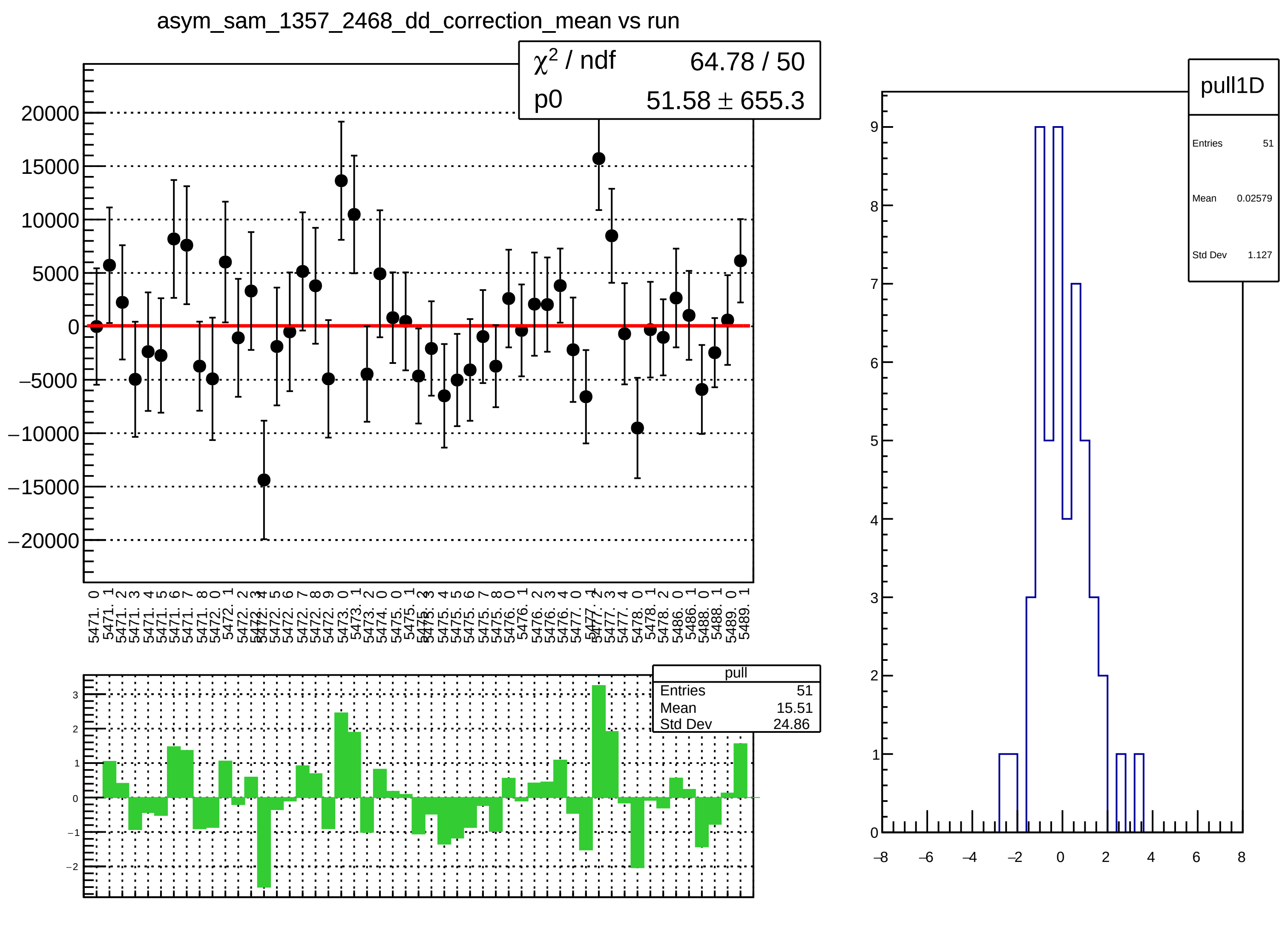

asym_sam_2468_avg_rms vs run
χ^2 / ndf 7860 / 50
p0 1425 ± 1.442
1700
1600
1500
1400
1300
1200



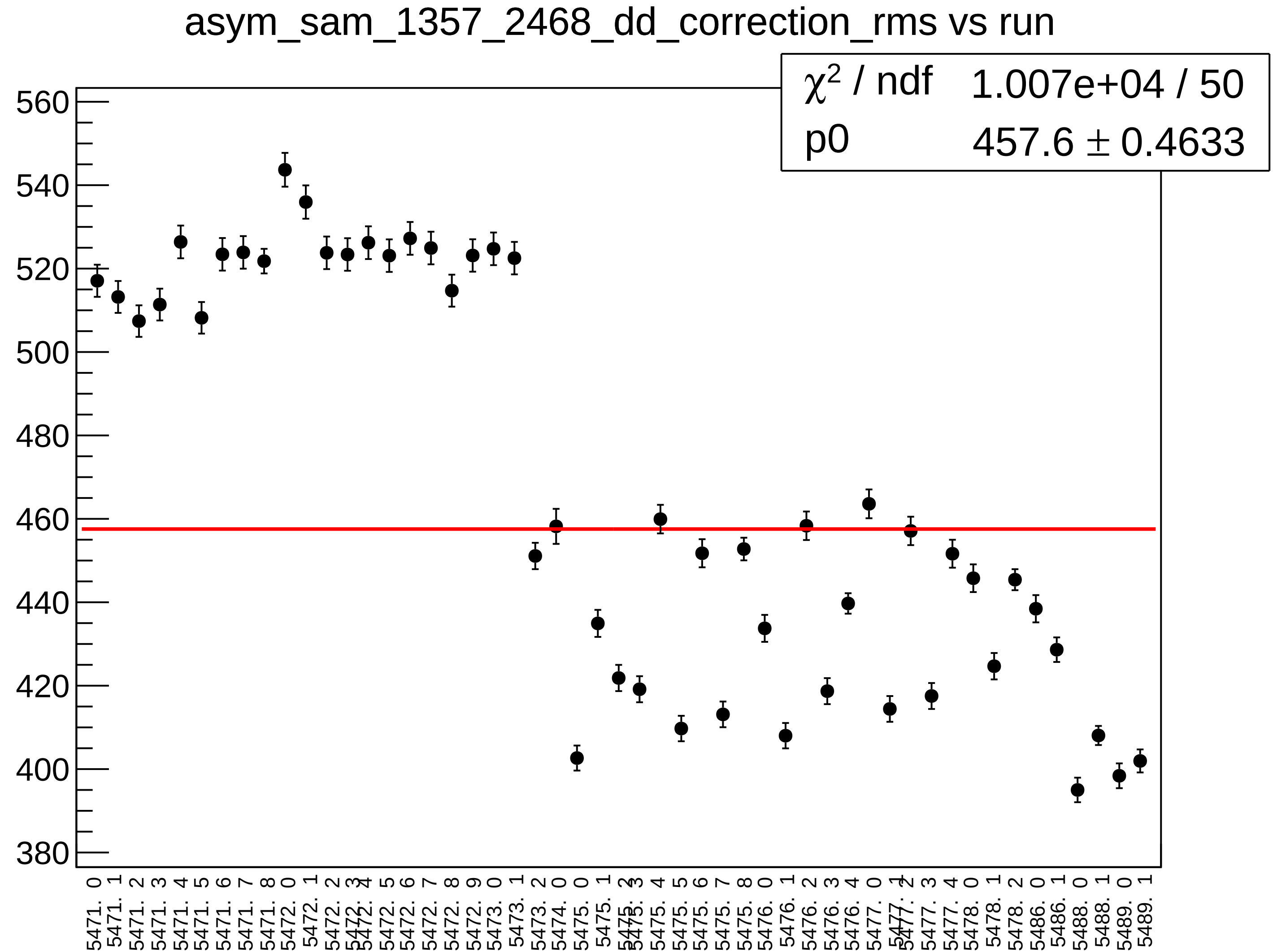
reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 39.34 / 50
p0 61.76 ± 49.53
pull
Entries 51
Mean −13.74
Std Dev 34.6
pull1D
Entries 51
Mean 0.08691
Std Dev 0.874



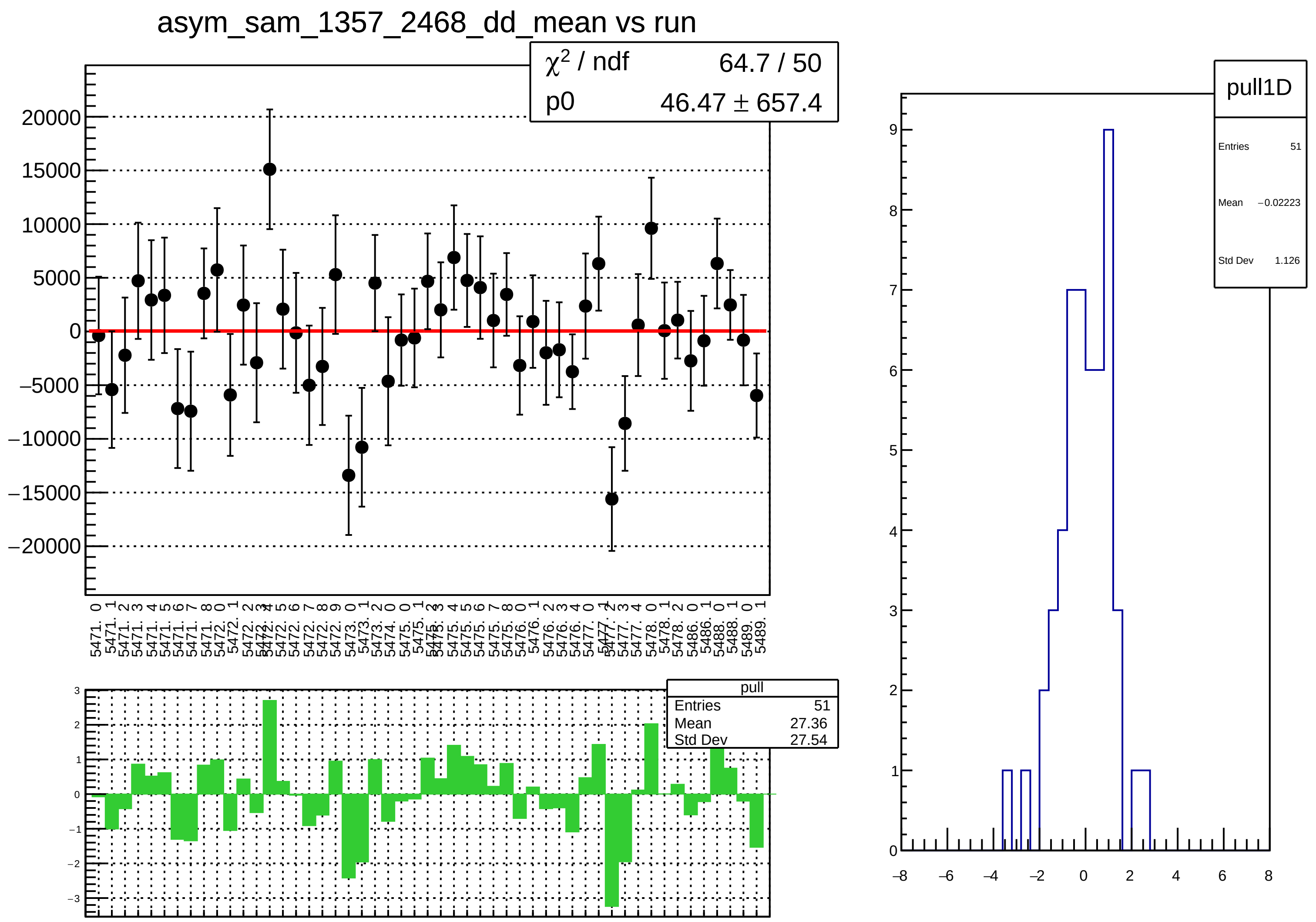
reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5.856e+04 / 50
p0 33.72 ± 0.03502
55
50
45
40
35
30
25



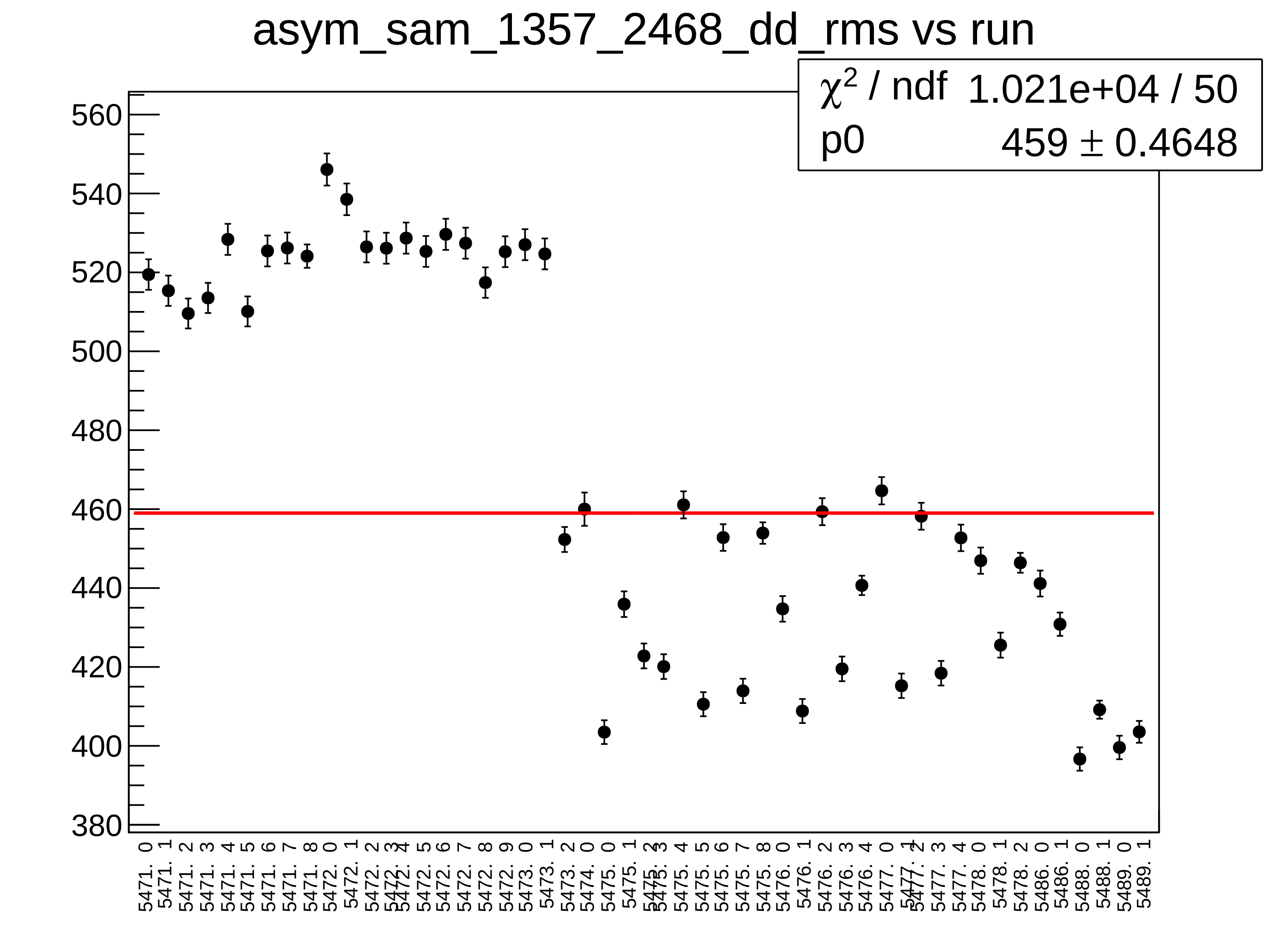
asym_sam_1357_2468_dd_correction_mean vs run
χ2 / ndf 64.78 / 50
p0 51.58 ± 655.3
pull
Entries 51
Mean 15.51
Std Dev 24.86
pull1D
Entries 51
Mean 0.02579
Std Dev 1.127



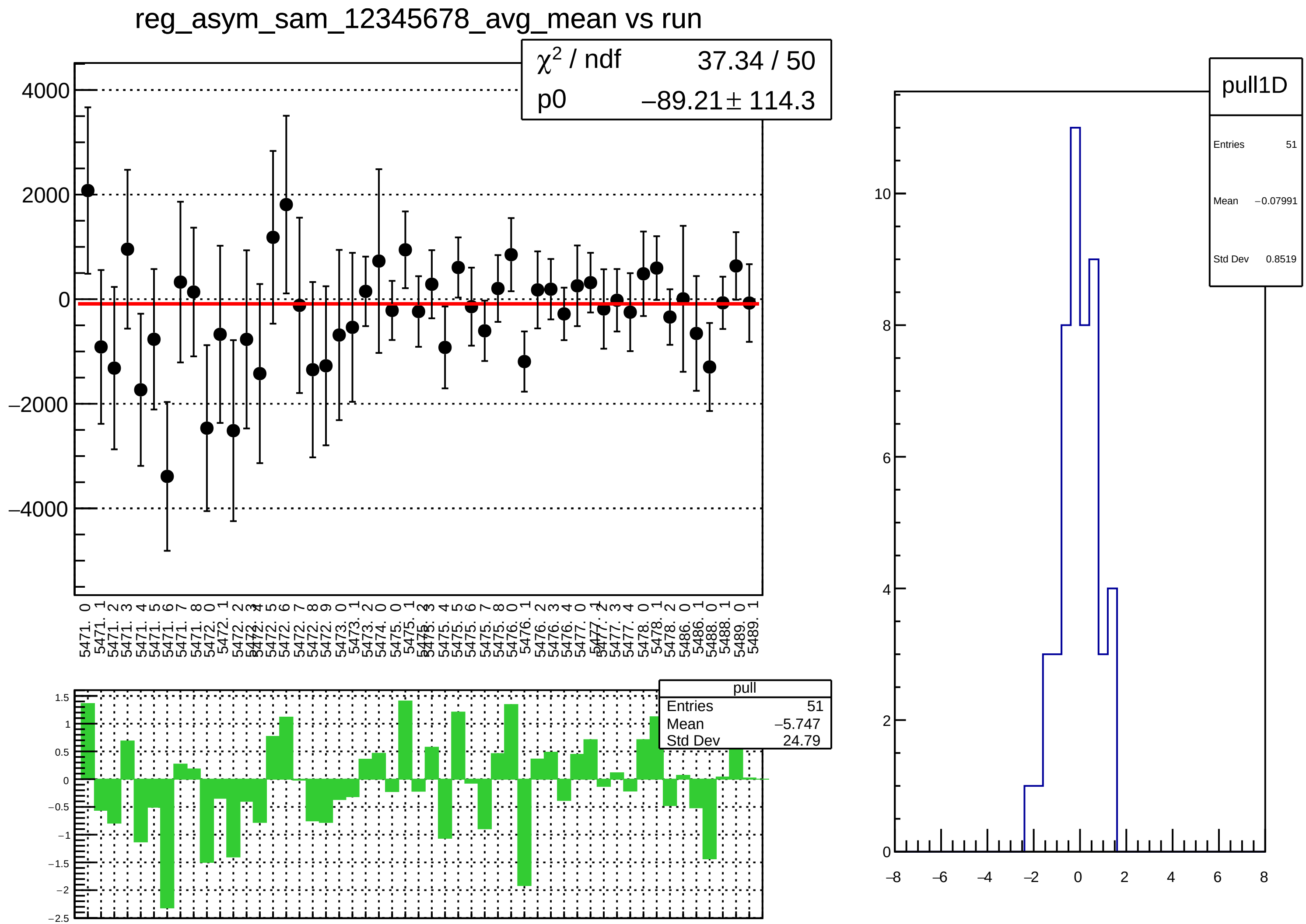
asym_sam_1357_2468_dd_correction_rms vs run
χ^2 / ndf 1.007e+04 / 50
p0 457.6 ± 0.4633
560
540
520
500
480
460
440
420
400
380
5471.0
5471.1
5471.2
5471.3
5471.4
5471.5
5471.6
5471.7
5471.8
5472.0
5472.1
5472.2
5472.3
5472.4
5472.5
5472.6
5472.7
5472.8
5472.9
5473.0
5473.1
5473.2
5474.0
5475.0
5475.1
5475.2
5475.3
5475.4
5475.5
5475.6
5475.7
5475.8
5476.0
5476.1
5476.2
5476.3
5476.4
5477.0
5477.1
5477.2
5477.3
5477.4
5478.0
5478.1
5478.2
5486.0
5486.1
5488.0
5488.1
5489.0
5489.1



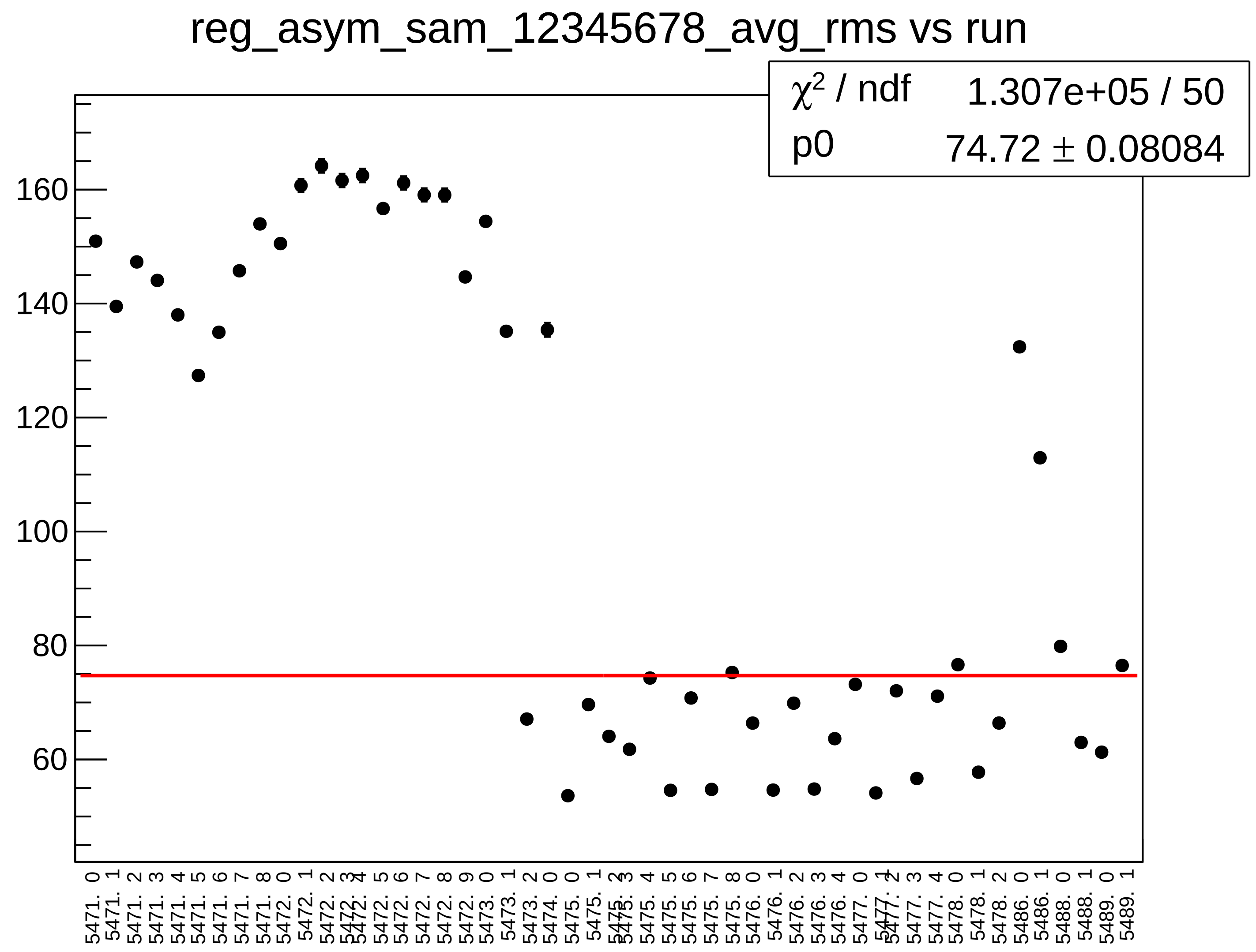
asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 64.7 / 50
p0 46.47 ± 657.4
pull
Entries 51
Mean 27.36
Std Dev 27.54
pull1D
Entries 51
Mean −0.02223
Std Dev 1.126



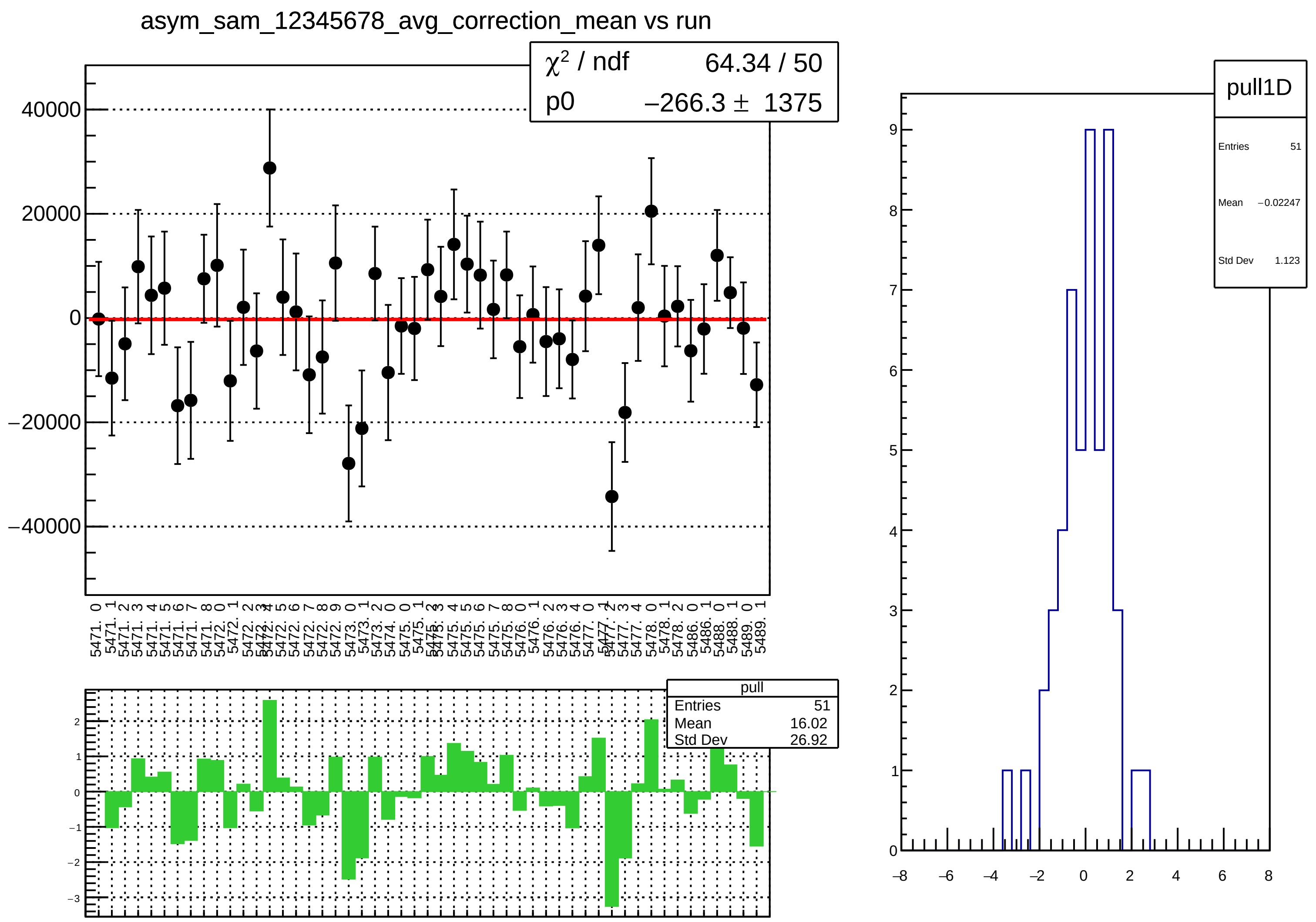
asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.021e+04 / 50
p0 459 ± 0.4648
560
540
520
500
480
460
440
420
400
380



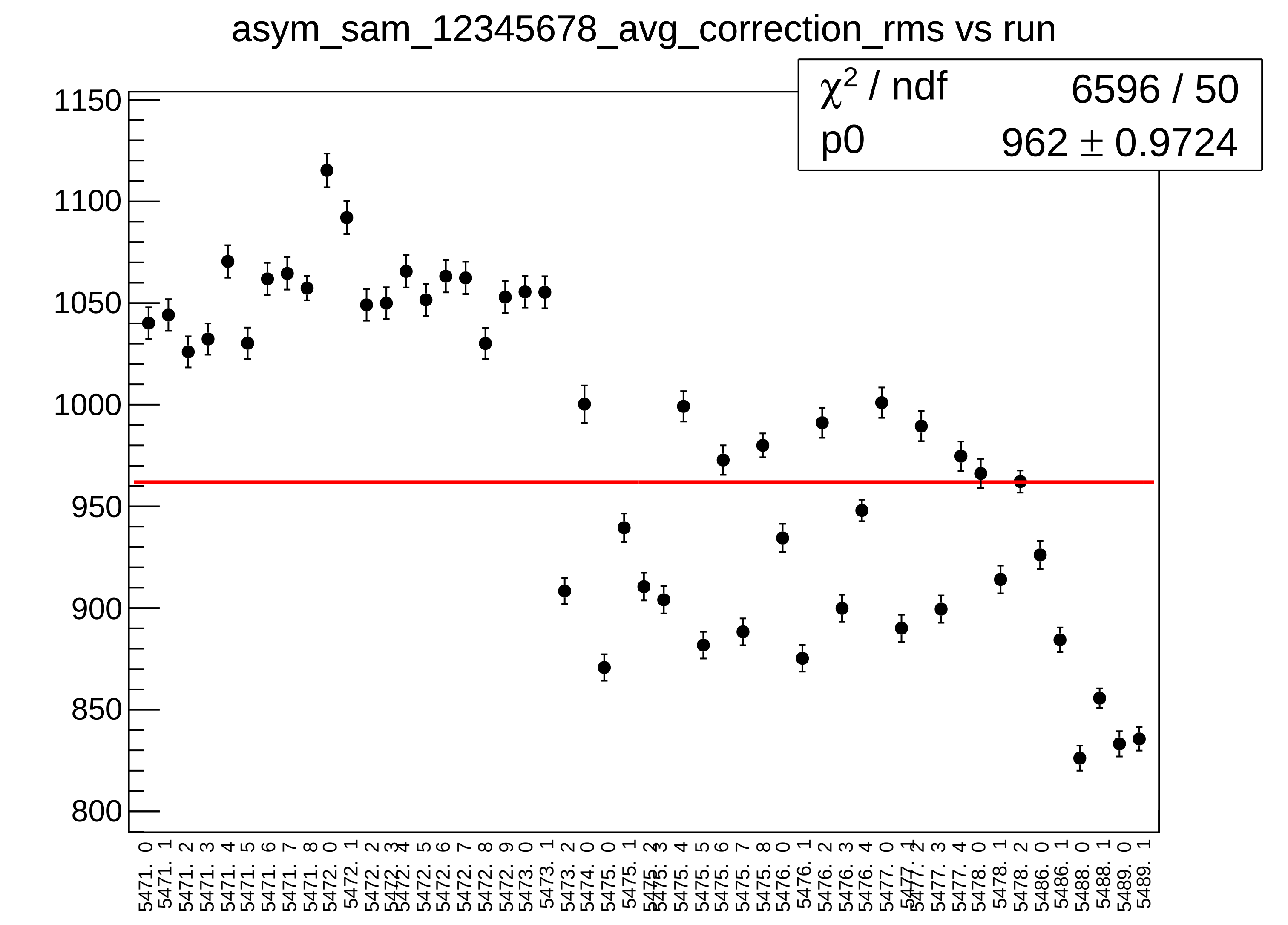
reg_asym_sam_12345678_avg_mean vs run
χ2 / ndf 37.34 / 50
p0 −89.21 ± 114.3
pull
Entries 51
Mean −5.747
Std Dev 24.79
pull1D
Entries 51
Mean −0.07991
Std Dev 0.8519



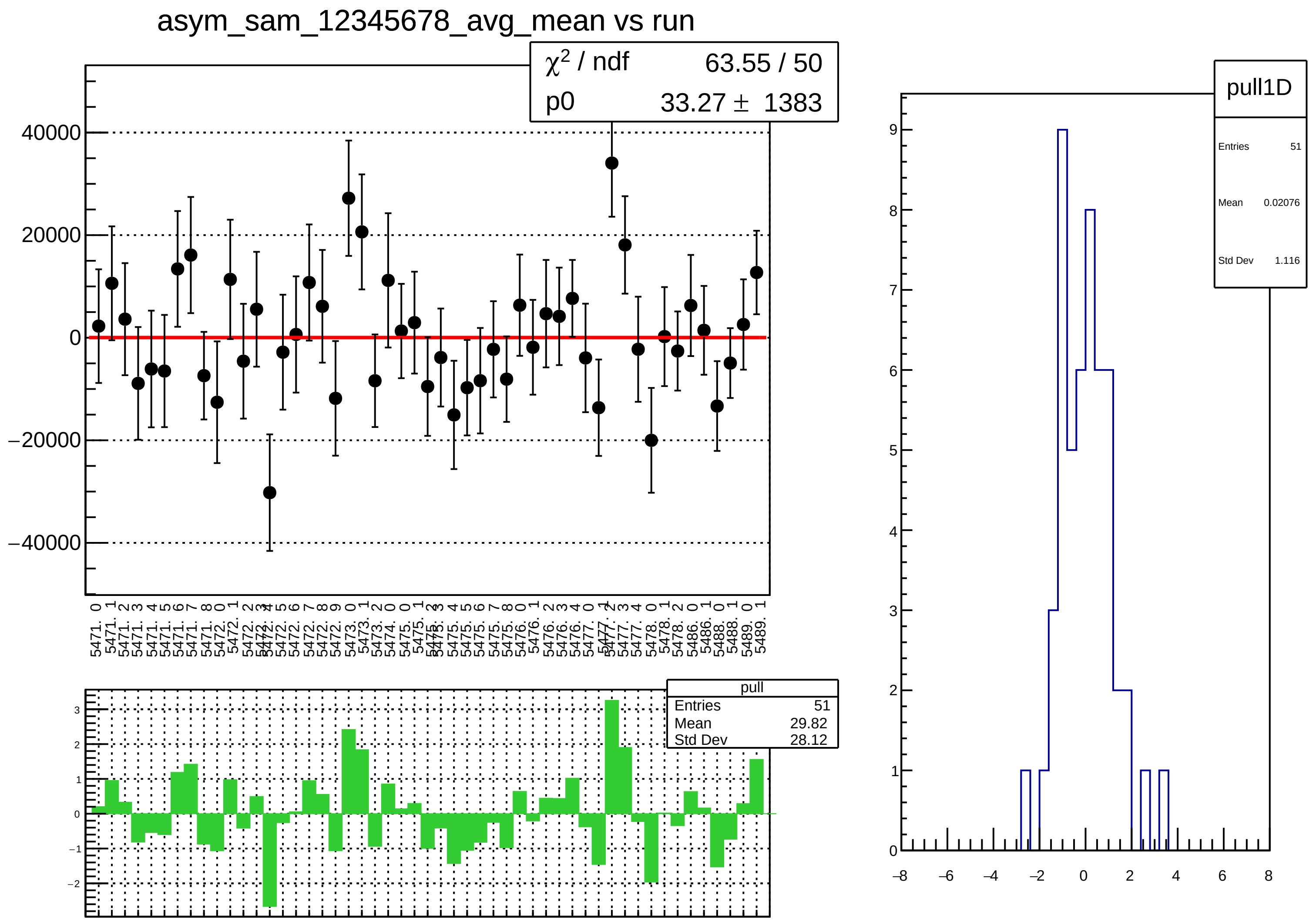
reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.307e+05 / 50
p0 74.72 ± 0.08084
160
140
120
100
80
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1



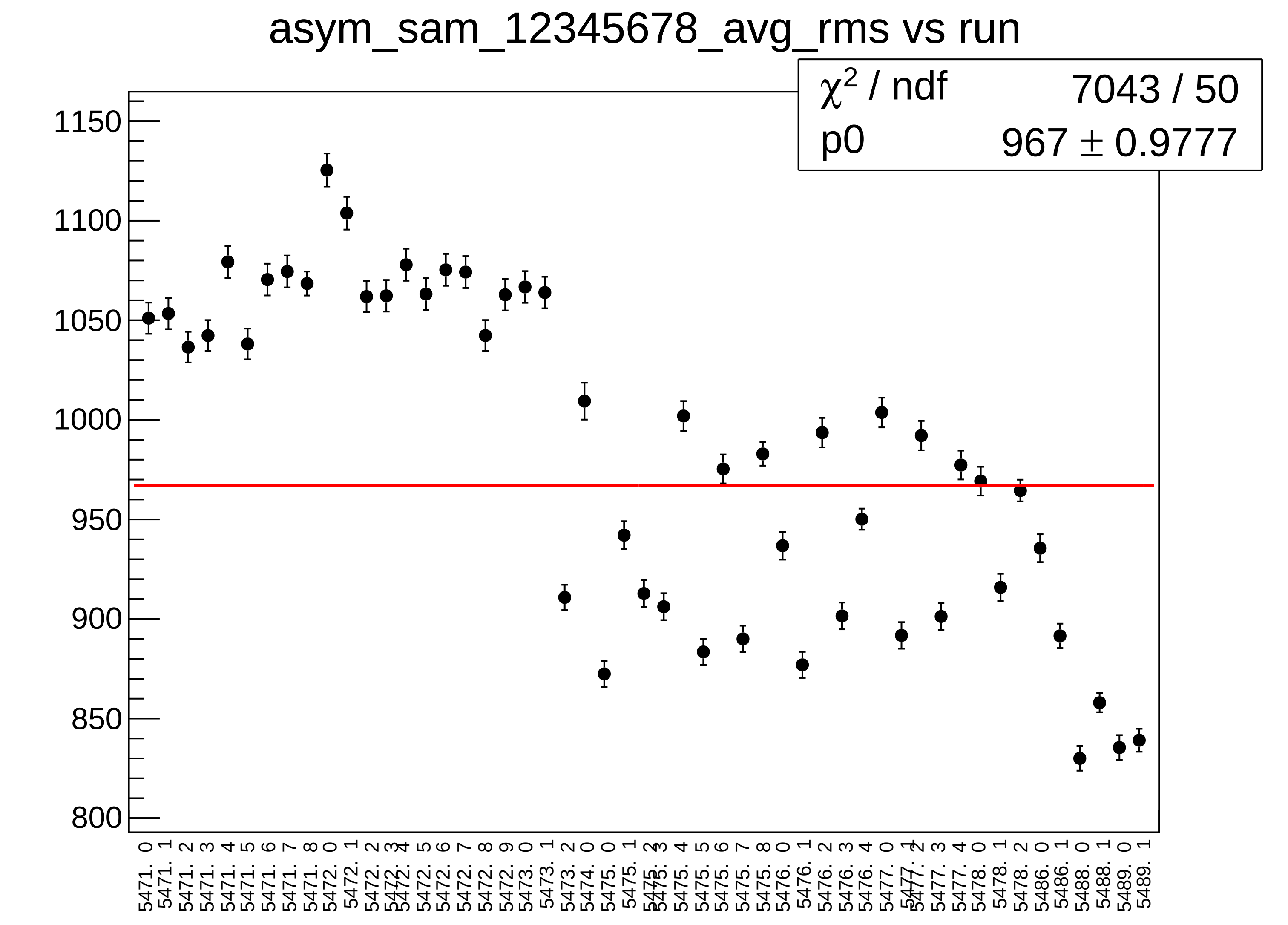
asym_sam_12345678_avg_correction_mean vs run
χ^2 / ndf 64.34 / 50
p0 −266.3 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 16.02
Std Dev 26.92
pull1D
Entries 51
Mean −0.02247
Std Dev 1.123



asym_sam_12345678_avg_correction_rms vs run
χ^2 / ndf 6596 / 50
p0 962 ± 0.9724
1150
1100
1050
1000
950
900
850
800

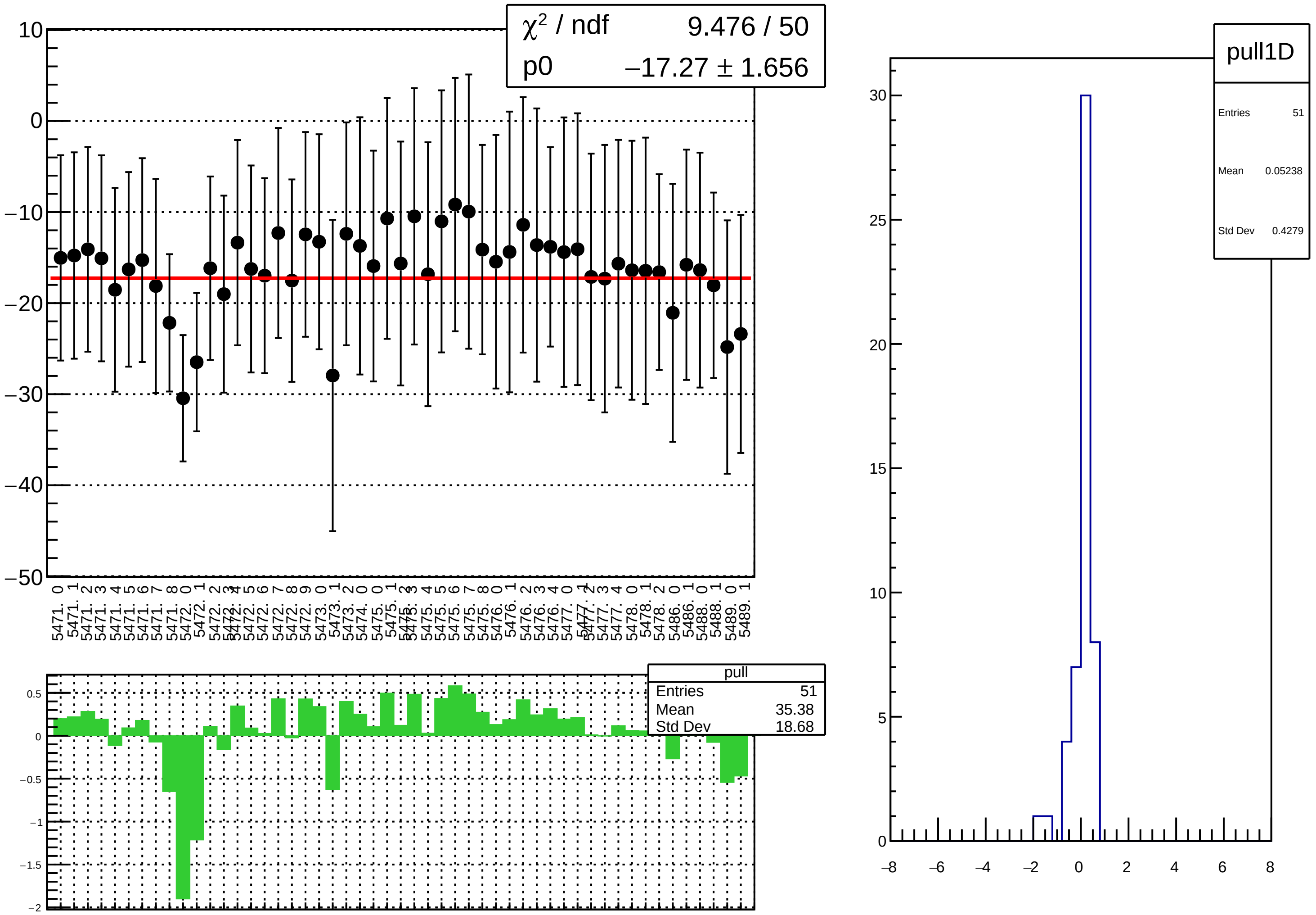


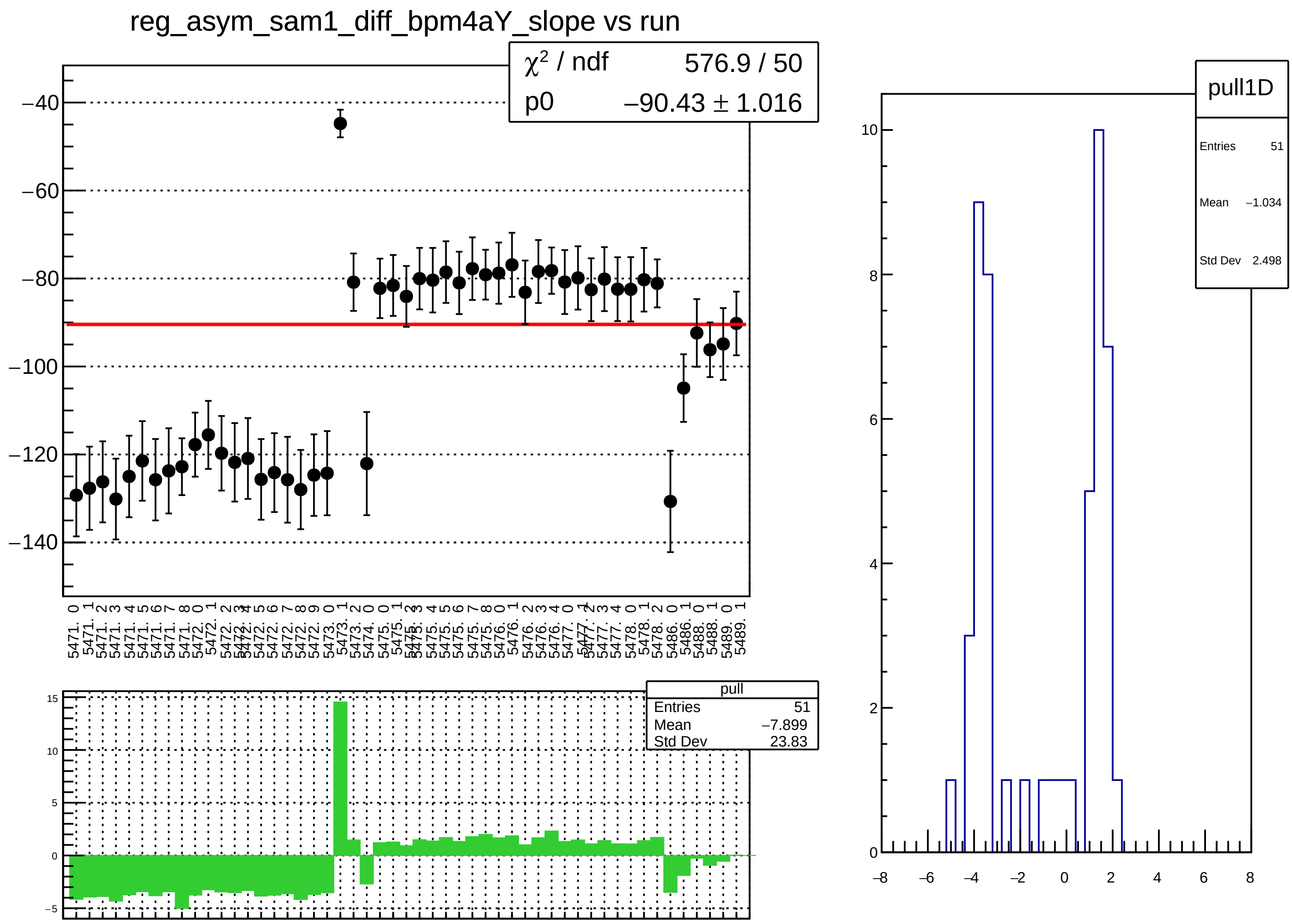
asym_sam_12345678_avg_mean vs run
χ2 / ndf 63.55 / 50
p0 33.27 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 29.82
Std Dev 28.12
pull1D
Entries 51
Mean 0.02076
Std Dev 1.116

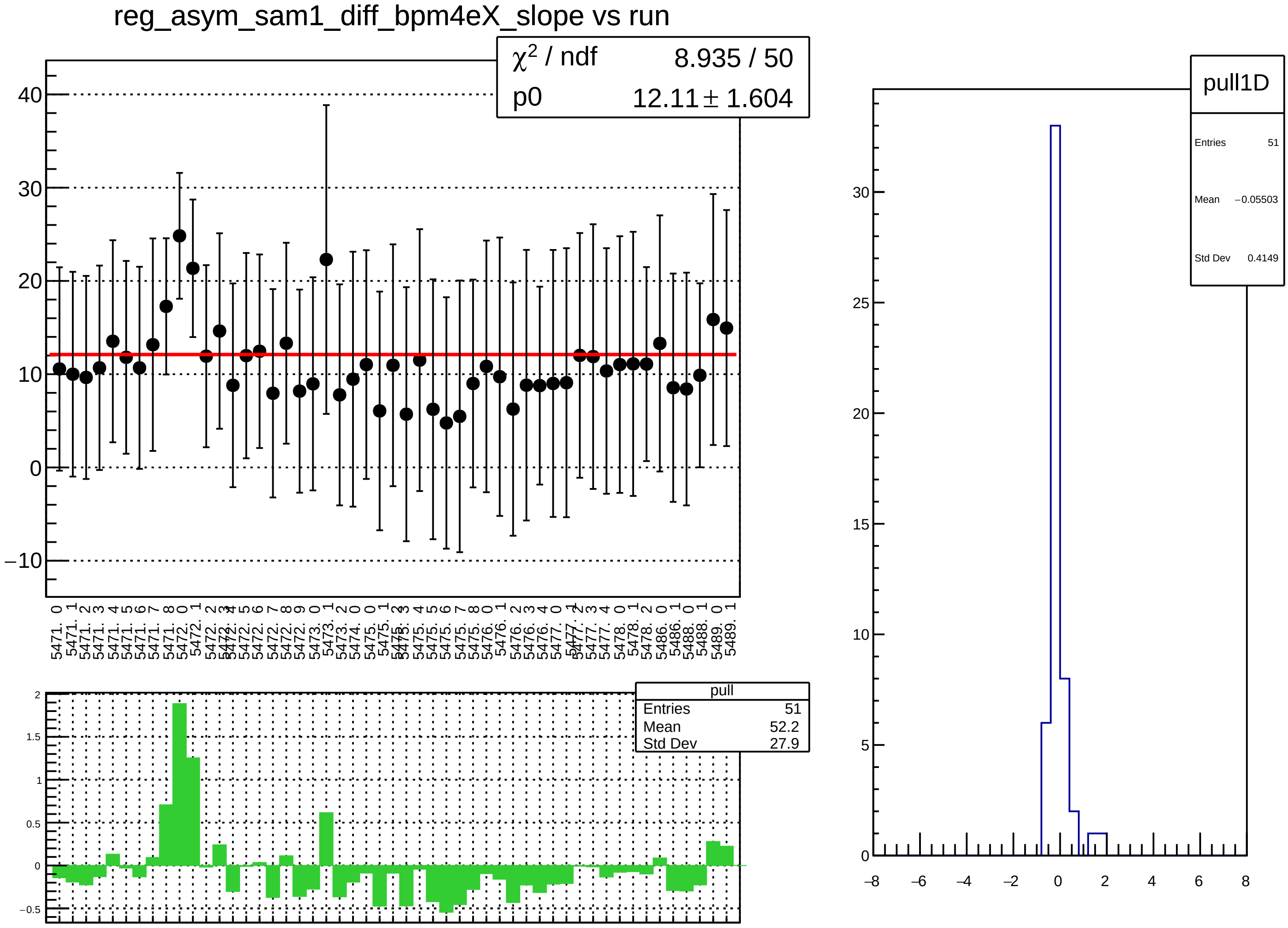


asym_sam_12345678_avg_rms vs run
χ^2 / ndf 7043 / 50
p0 967 ± 0.9777
1150
1100
1050
1000
950
900
850
800

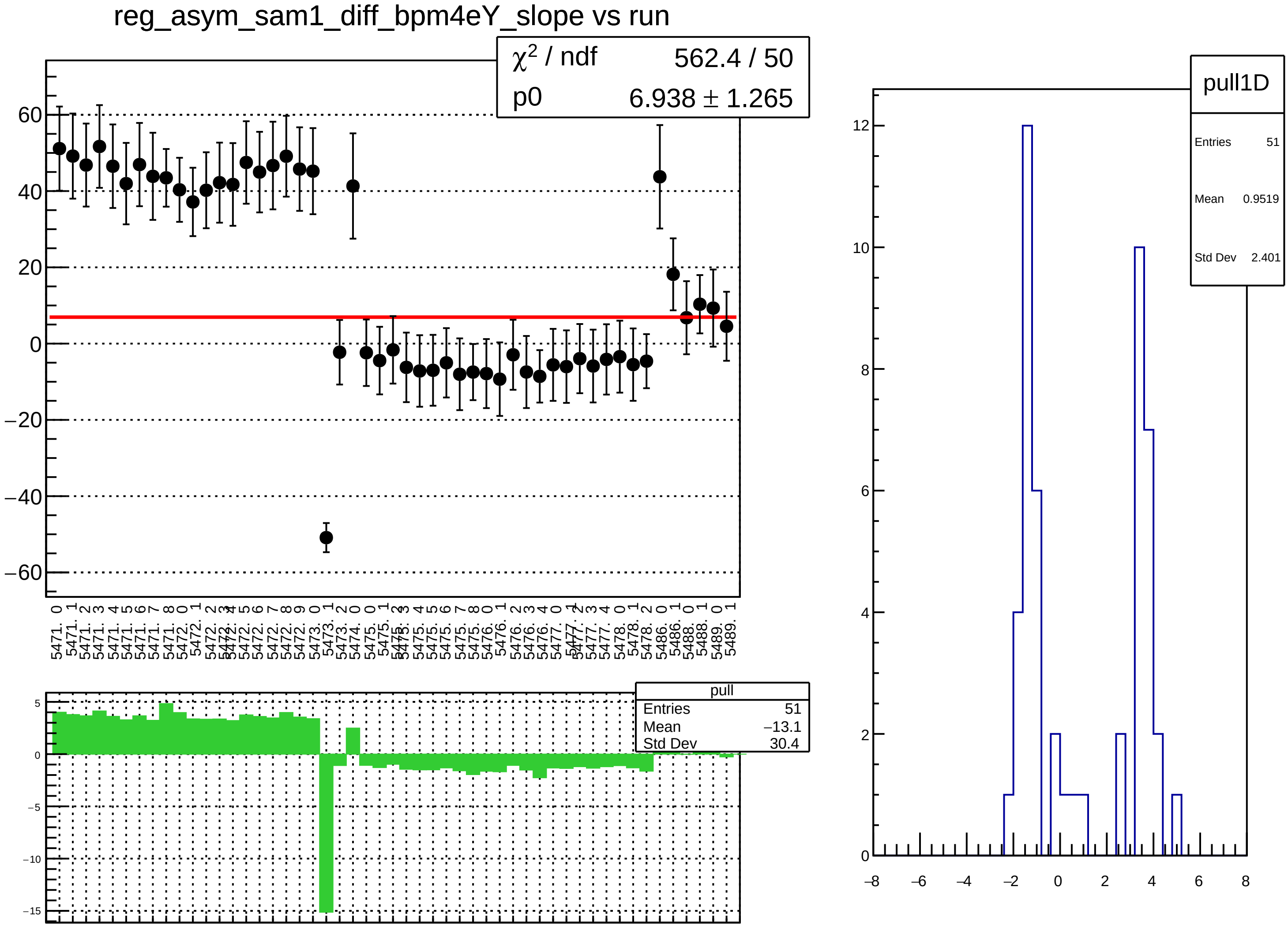
reg_asym_sam1_diff_bpm4aX_slope vs run



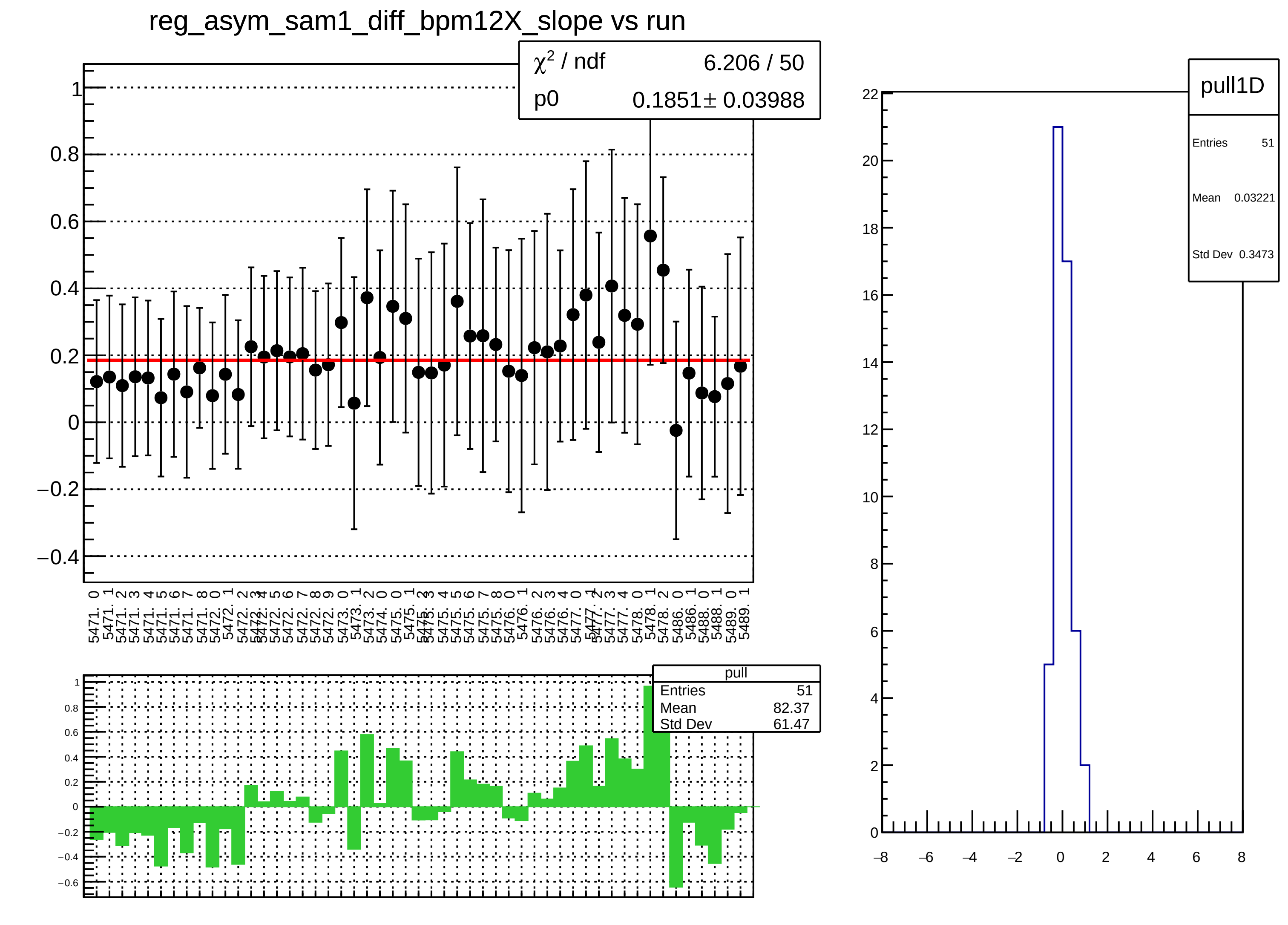

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 576.9 / 50
p0 −90.43 ± 1.016
pull
Entries 51
Mean −7.899
Std Dev 23.83
pull1D
Entries 51
Mean −1.034
Std Dev 2.498



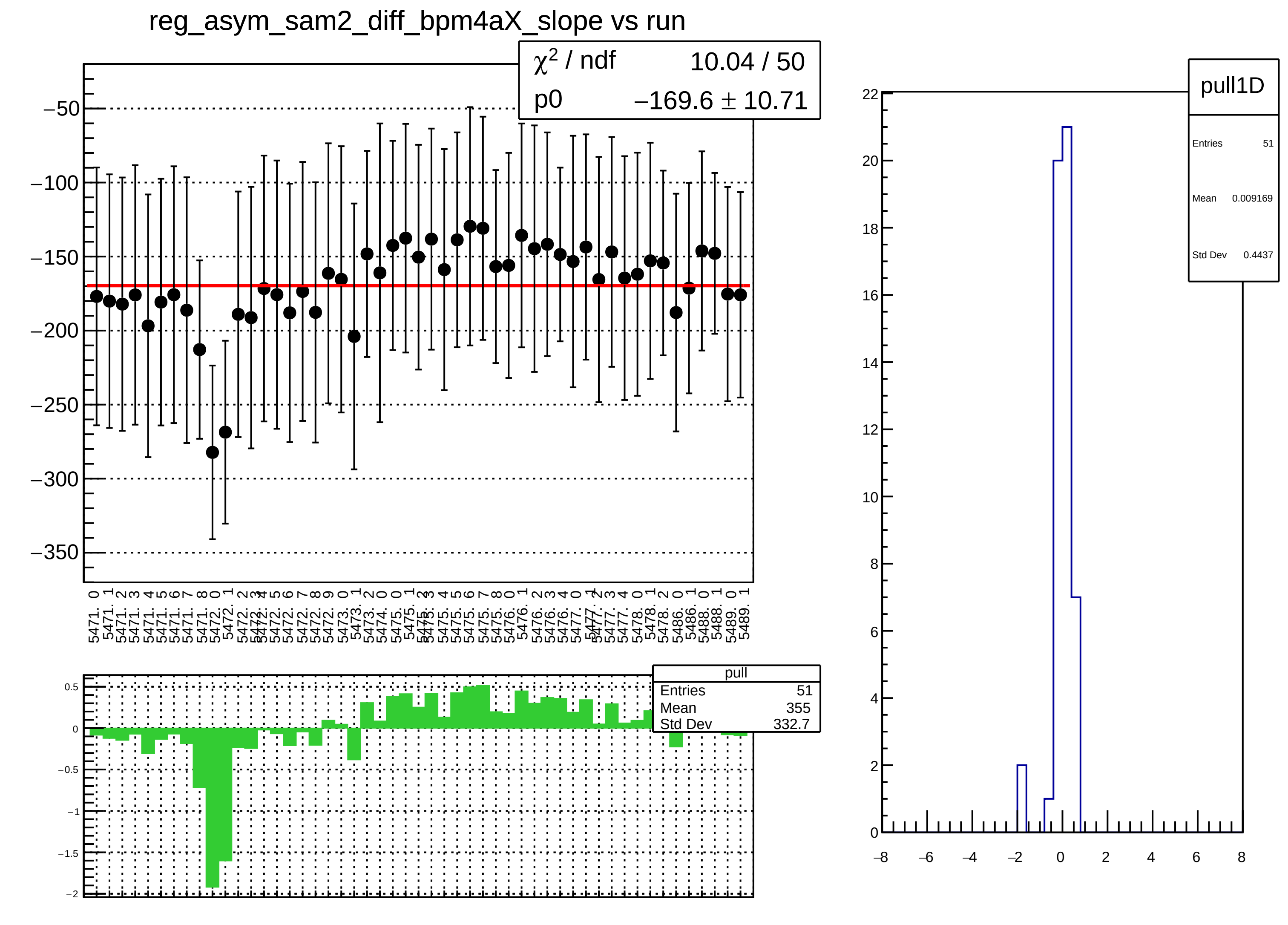
reg_asym_sam1_diff_bpm4eX_slope vs run
χ2 / ndf 8.935 / 50
p0 12.11 ± 1.604
pull
Entries 51
Mean 52.2
Std Dev 27.9
pull1D
Entries 51
Mean −0.05503
Std Dev 0.4149



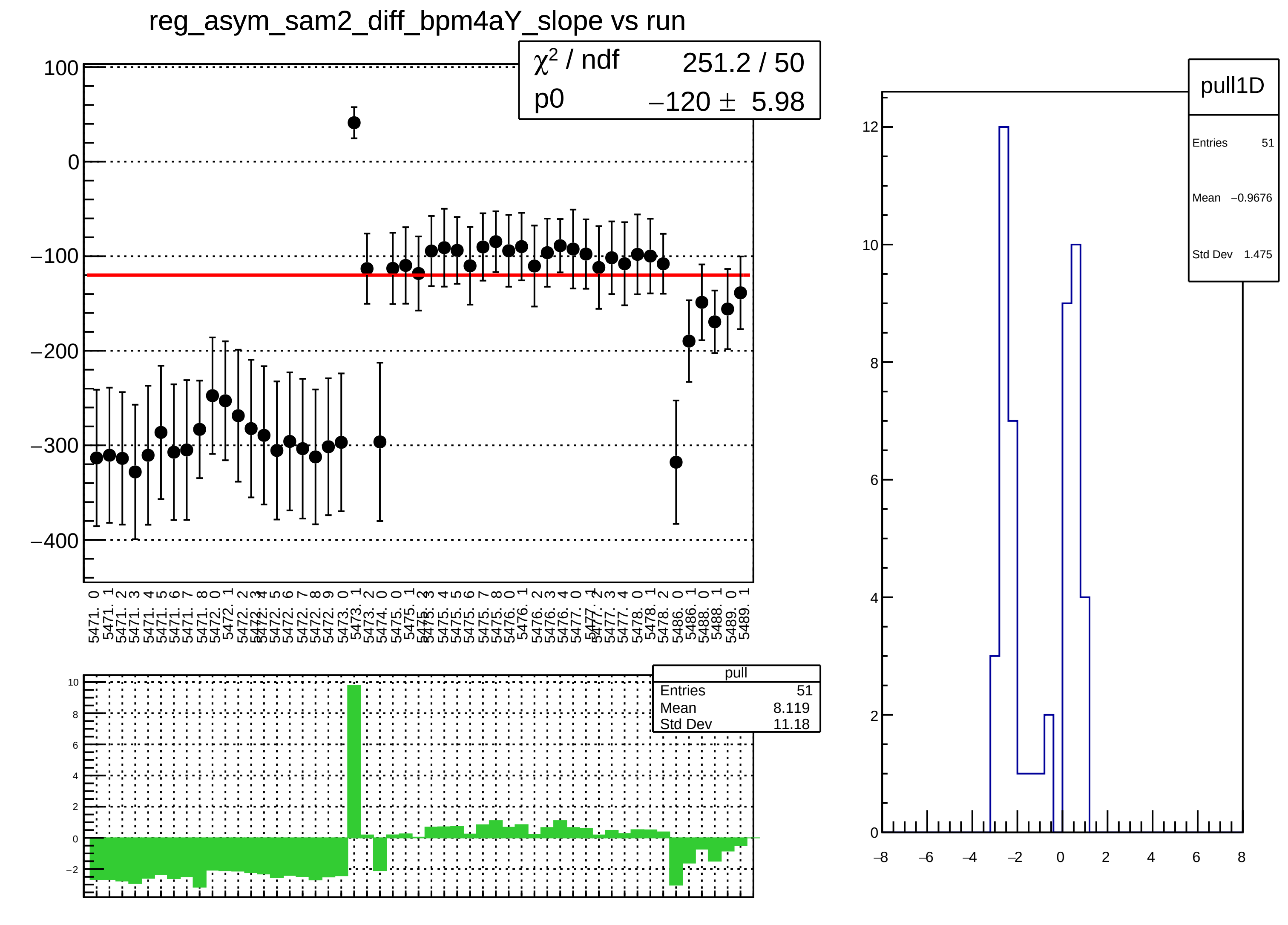
reg_asym_sam1_diff_bpm4eY_slope vs run
χ^2 / ndf 562.4 / 50
p0 6.938 ± 1.265
pull
Entries 51
Mean −13.1
Std Dev 30.4
pull1D
Entries 51
Mean 0.9519
Std Dev 2.401

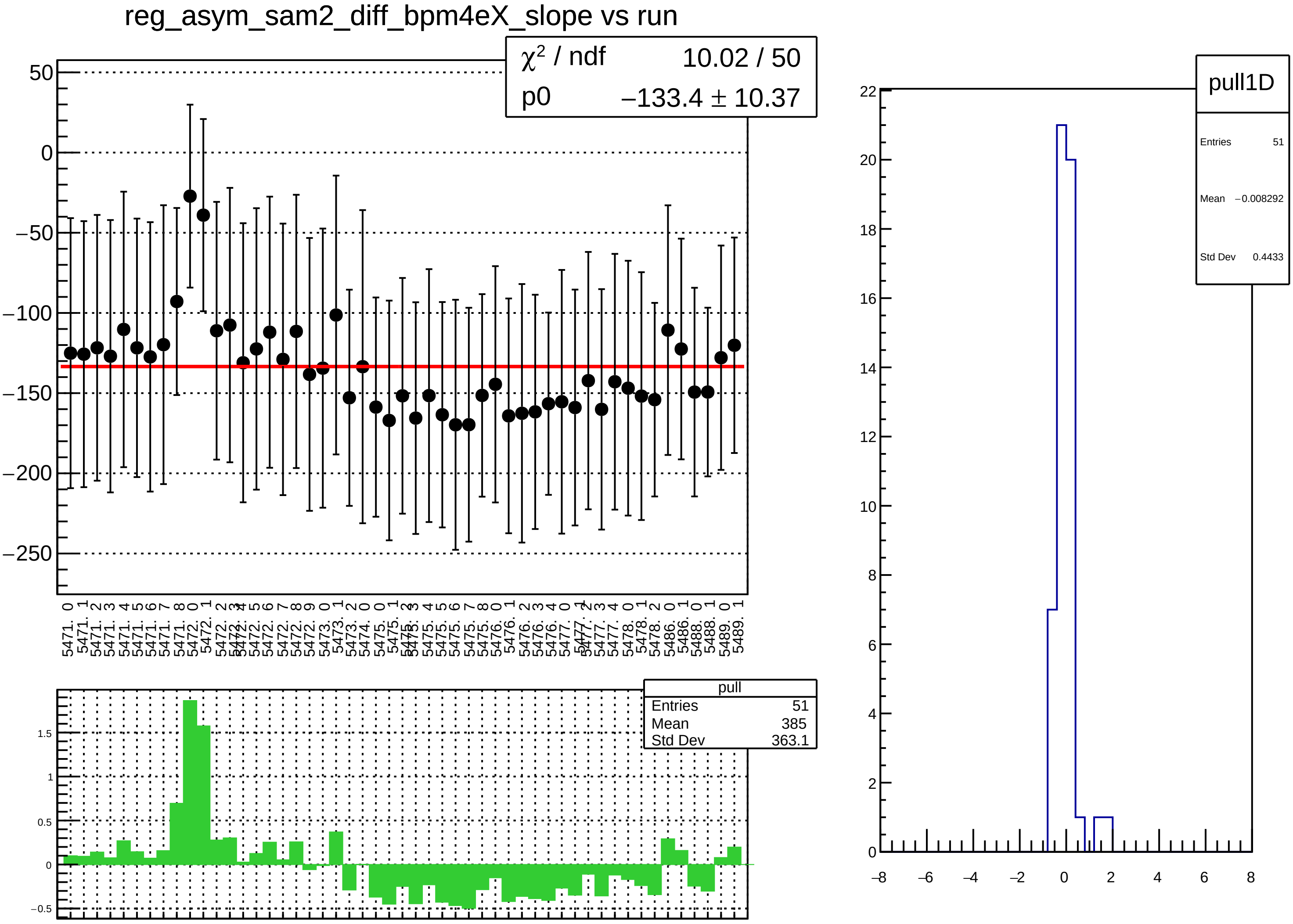


reg_asym_sam1_diff_bpm12X_slope vs run
χ2 / ndf 6.206 / 50
p0 0.1851± 0.03988
pull
Entries 51
Mean 82.37
Std Dev 61.47
pull1D
Entries 51
Mean 0.03221
Std Dev 0.3473

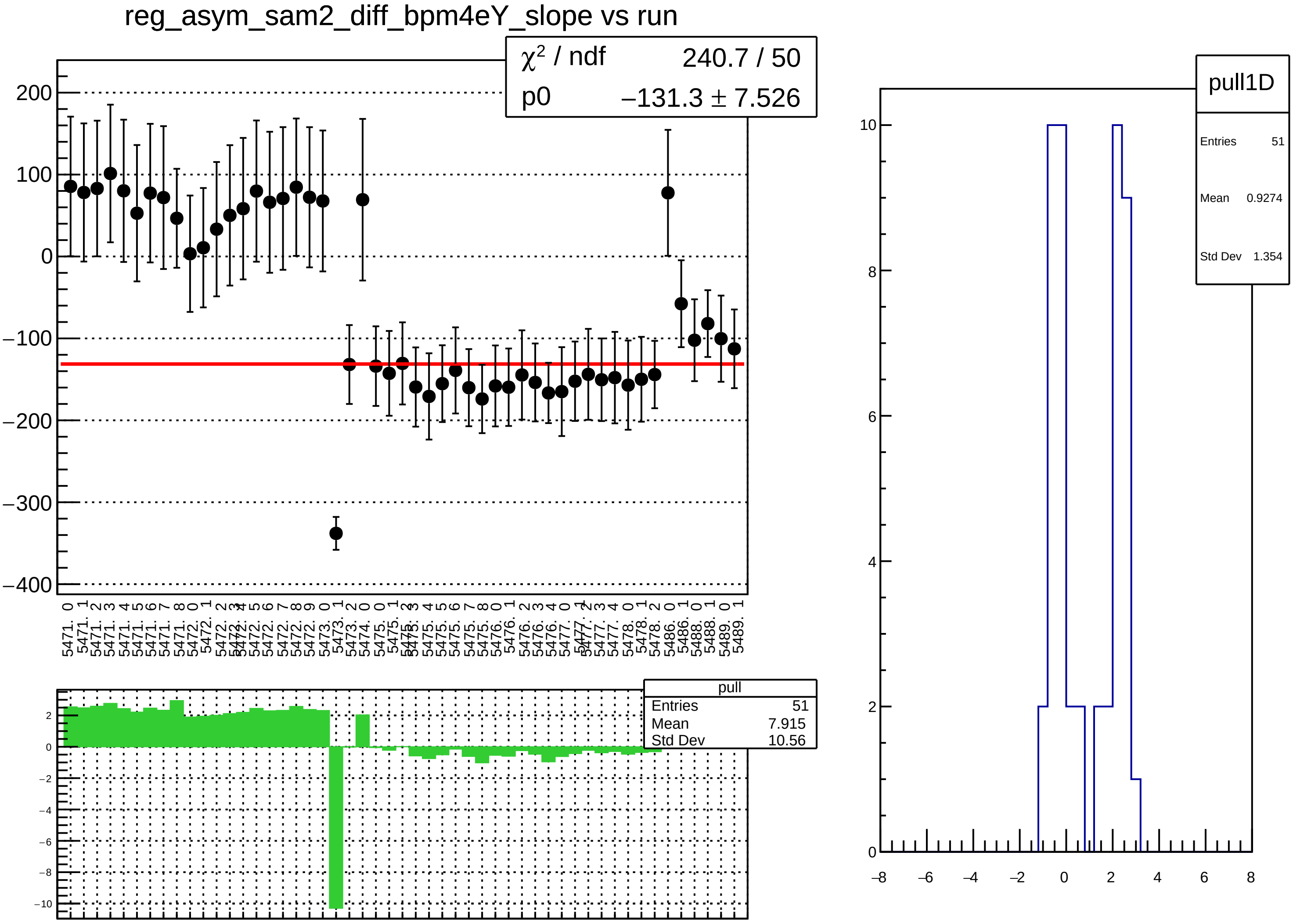


reg_asym_sam2_diff_bpm4aX_slope vs run
χ^2 / ndf 10.04 / 50
p0 −169.6 ± 10.71
pull
Entries 51
Mean 355
Std Dev 332.7
pull1D
Entries 51
Mean 0.009169
Std Dev 0.4437

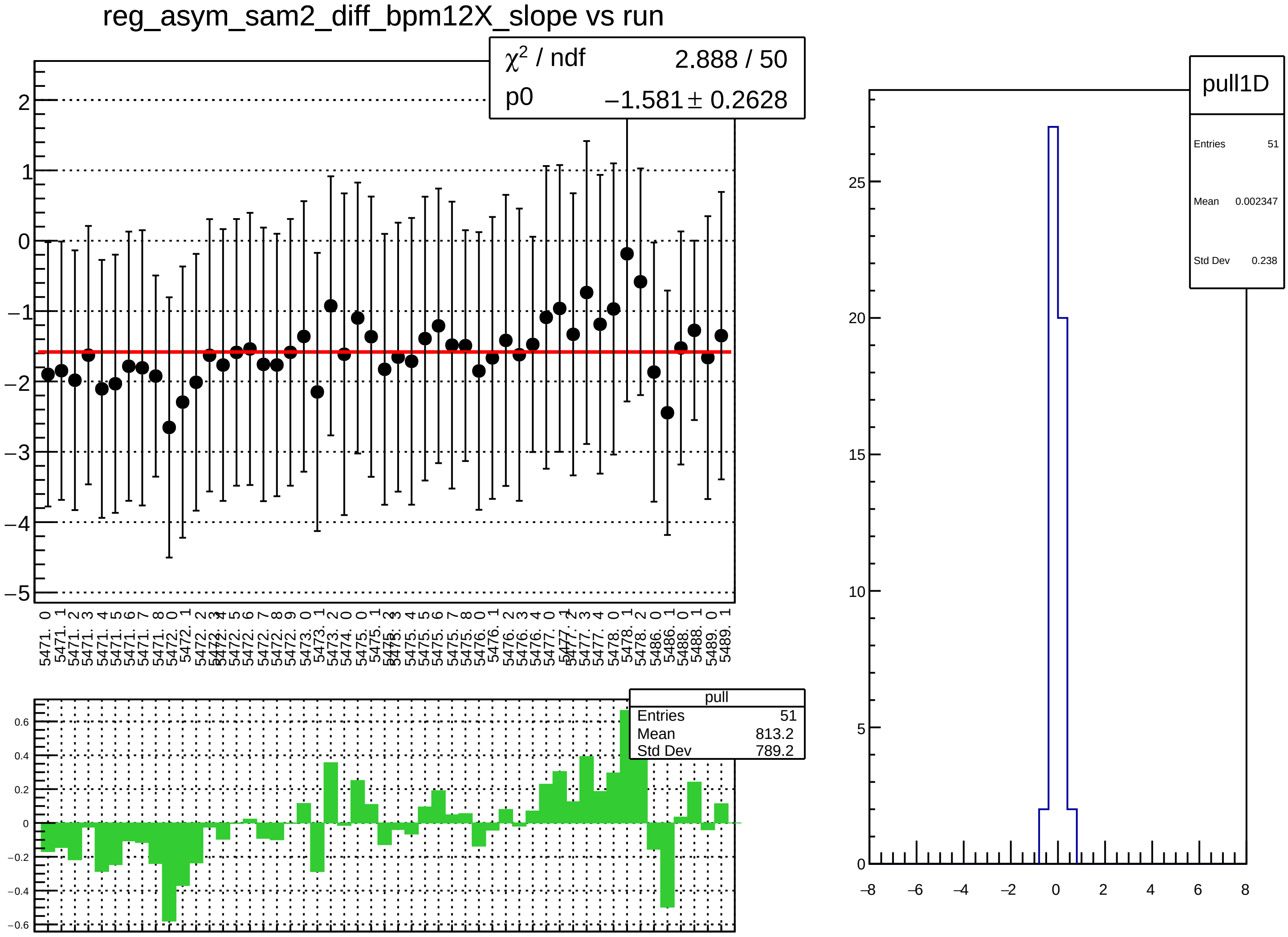

reg_asym_sam2_diff_bpm4aY_slope vs run
χ2 / ndf 251.2 / 50
p0 −120 ± 5.98
100
0
−100
−200
−300
−400
pull
Entries 51
Mean 8.119
Std Dev 11.18
pull1D
Entries 51
Mean −0.9676
Std Dev 1.475
12
10
8
6
4
2
0
−8 −6 −4 −2 0 2 4 6 8



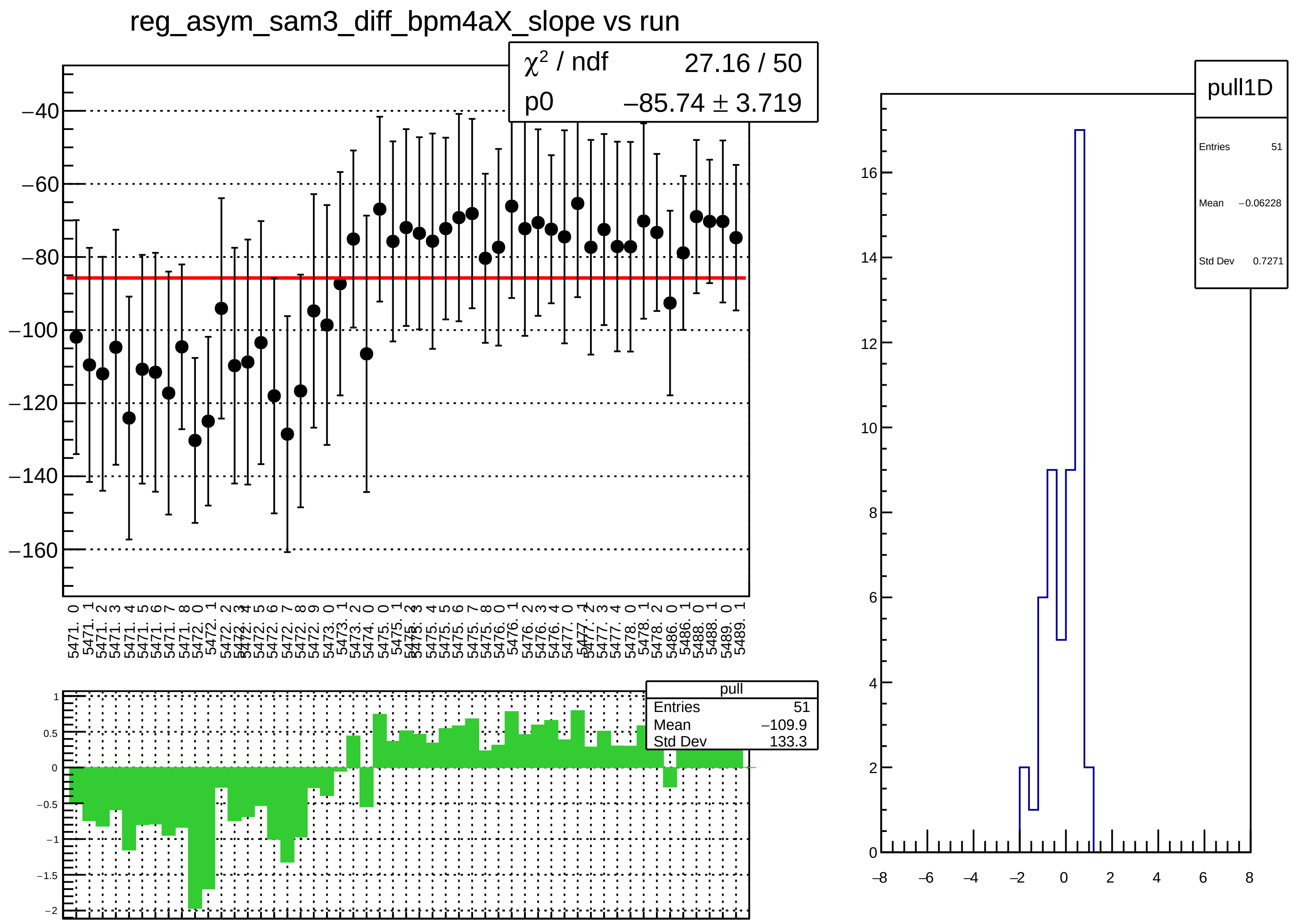
reg_asym_sam2_diff_bpm4eX_slope vs run
χ2 / ndf 10.02 / 50
p0 −133.4 ± 10.37
pull
Entries 51
Mean 385
Std Dev 363.1
pull1D
Entries 51
Mean −0.008292
Std Dev 0.4433



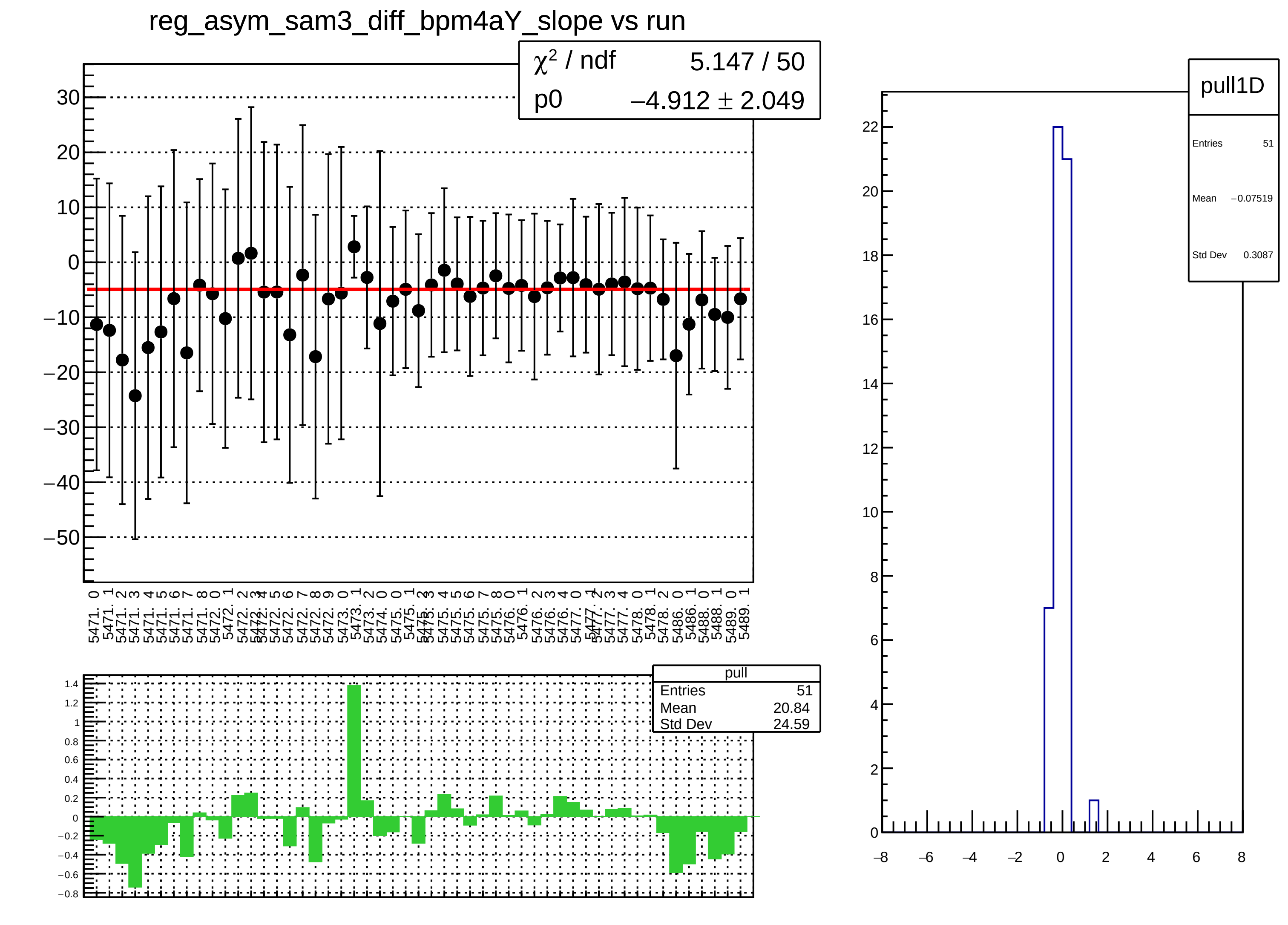
reg_asym_sam2_diff_bpm4eY_slope vs run
χ^2 / ndf 240.7 / 50
p0 −131.3 ± 7.526
pull
Entries 51
Mean 7.915
Std Dev 10.56
pull1D
Entries 51
Mean 0.9274
Std Dev 1.354



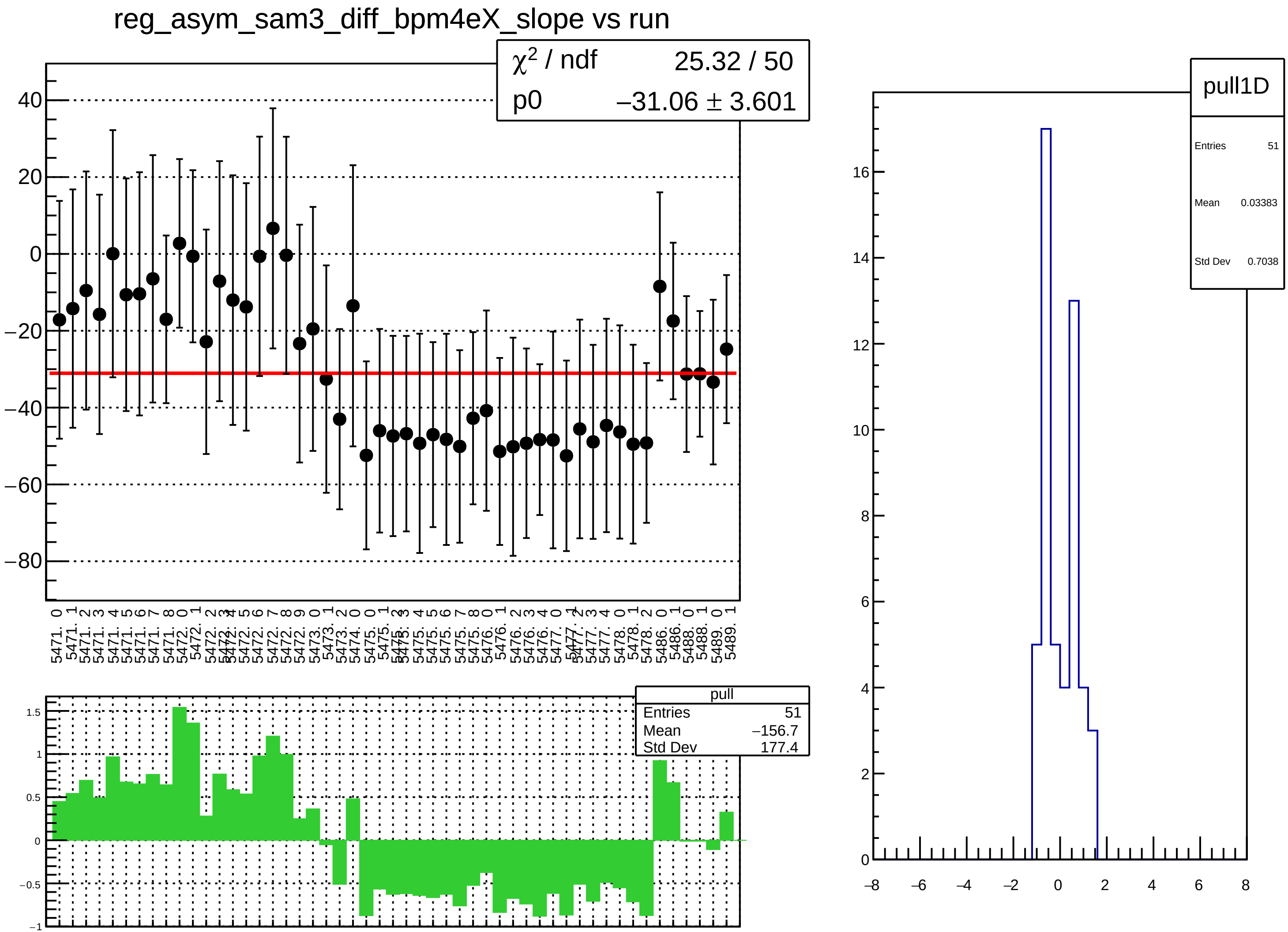
reg_asym_sam2_diff_bpm12X_slope vs run
χ^2 / ndf 2.888 / 50
p0 −1.581 ± 0.2628
pull
Entries 51
Mean 813.2
Std Dev 789.2
pull1D
Entries 51
Mean 0.002347
Std Dev 0.238



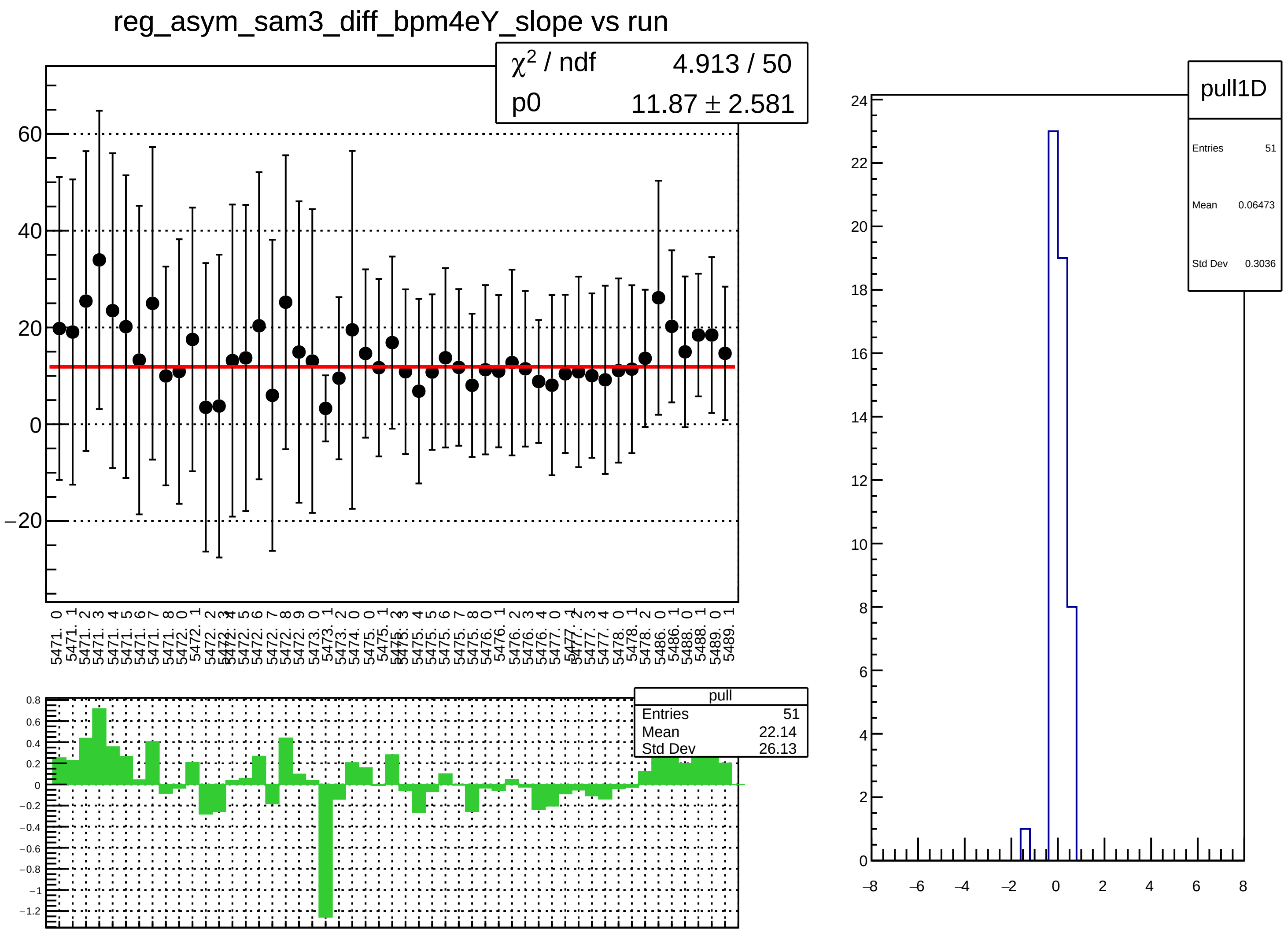
reg_asym_sam3_diff_bpm4aX_slope vs run
χ2 / ndf 27.16 / 50
p0 −85.74 ± 3.719
pull
Entries 51
Mean −109.9
Std Dev 133.3
pull1D
Entries 51
Mean −0.06228
Std Dev 0.7271



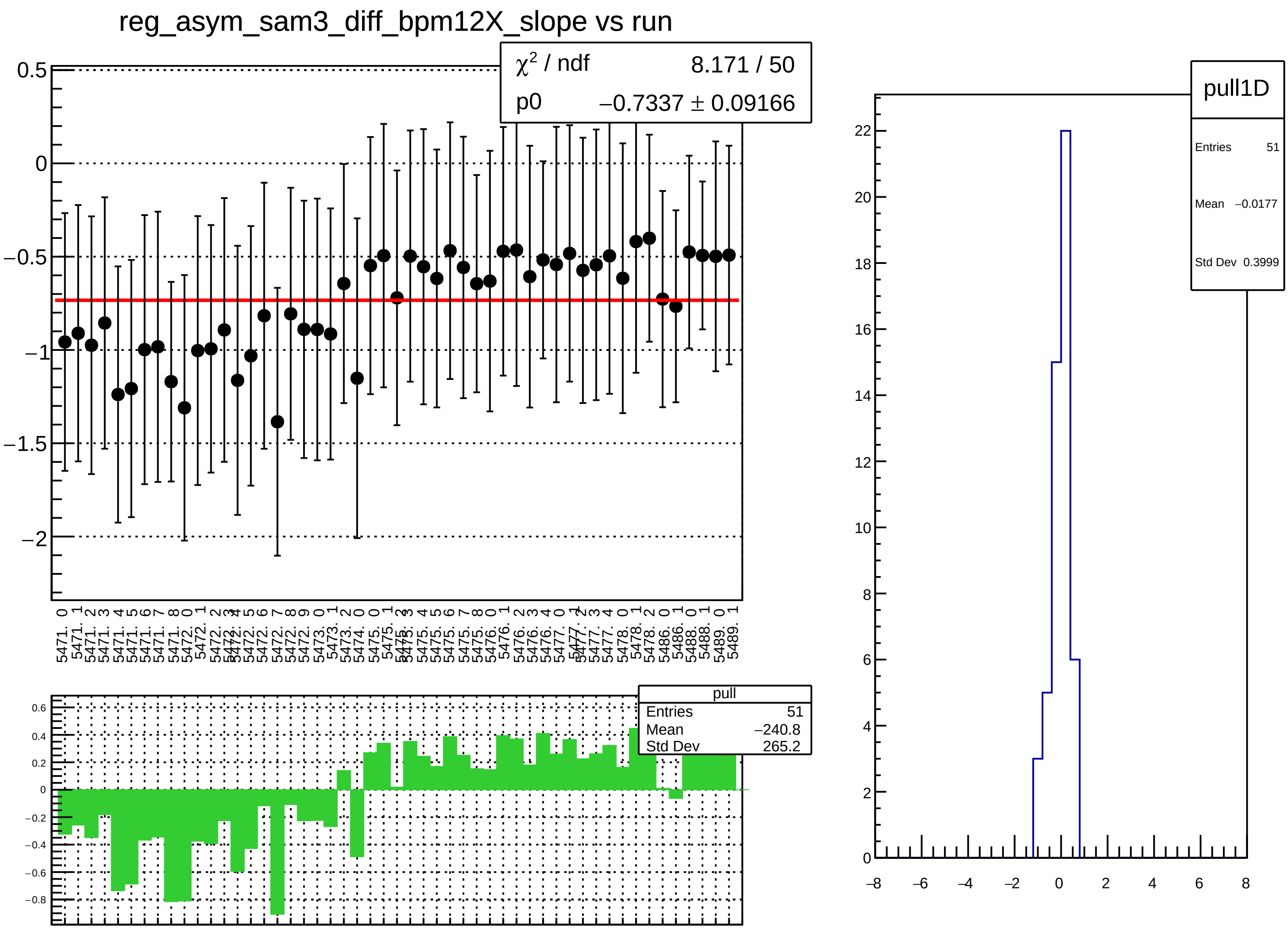
reg_asym_sam3_diff_bpm4aY_slope vs run
χ2 / ndf 5.147 / 50
p0 −4.912 ± 2.049
30
20
10
0
−10
−20
−30
−40
−50
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 20.84
Std Dev 24.59
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 51
Mean −0.07519
Std Dev 0.3087
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



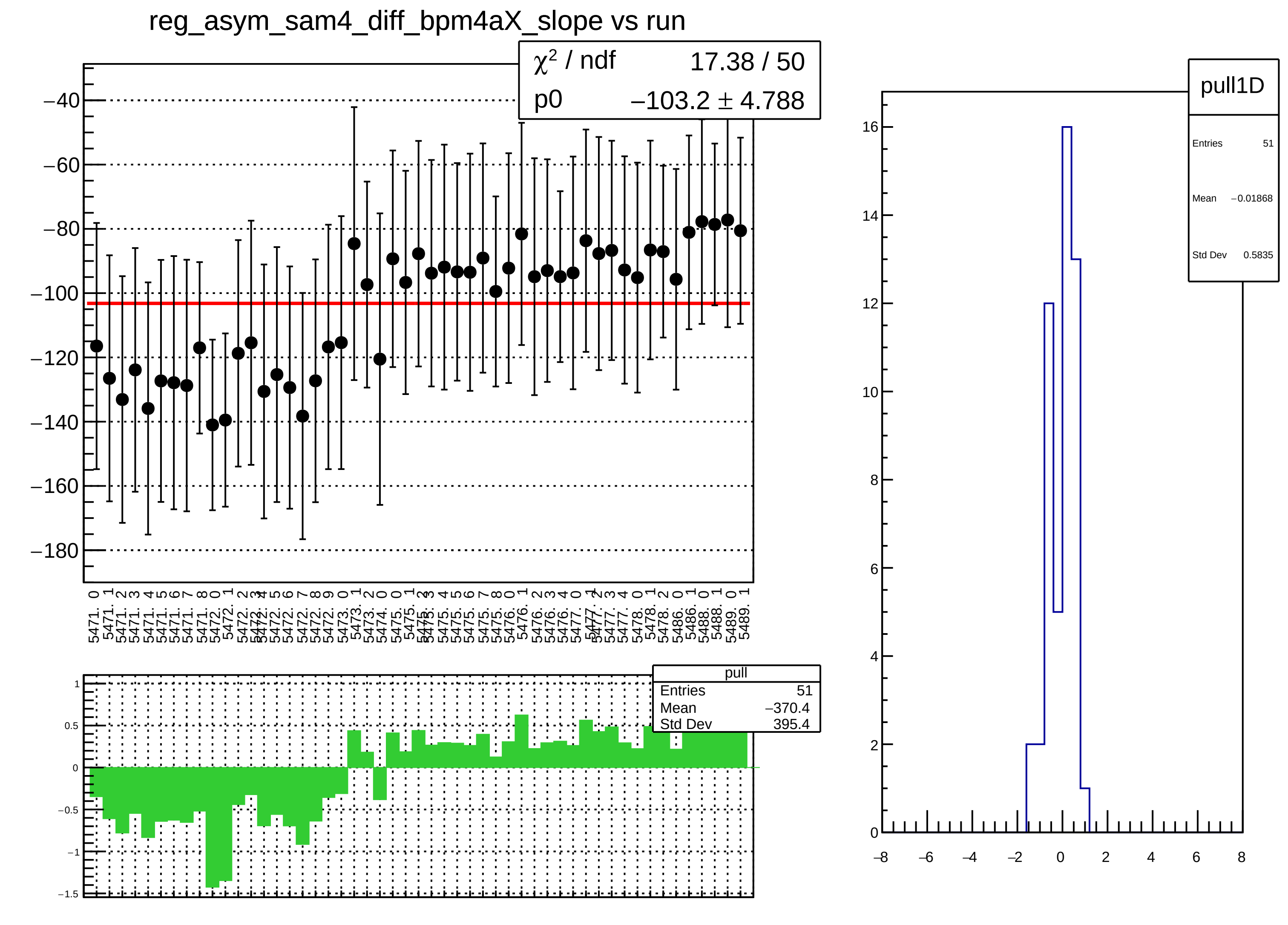
reg_asym_sam3_diff_bpm4eX_slope vs run
χ2 / ndf 25.32 / 50
p0 −31.06 ± 3.601
pull
Entries 51
Mean −156.7
Std Dev 177.4
pull1D
Entries 51
Mean 0.03383
Std Dev 0.7038



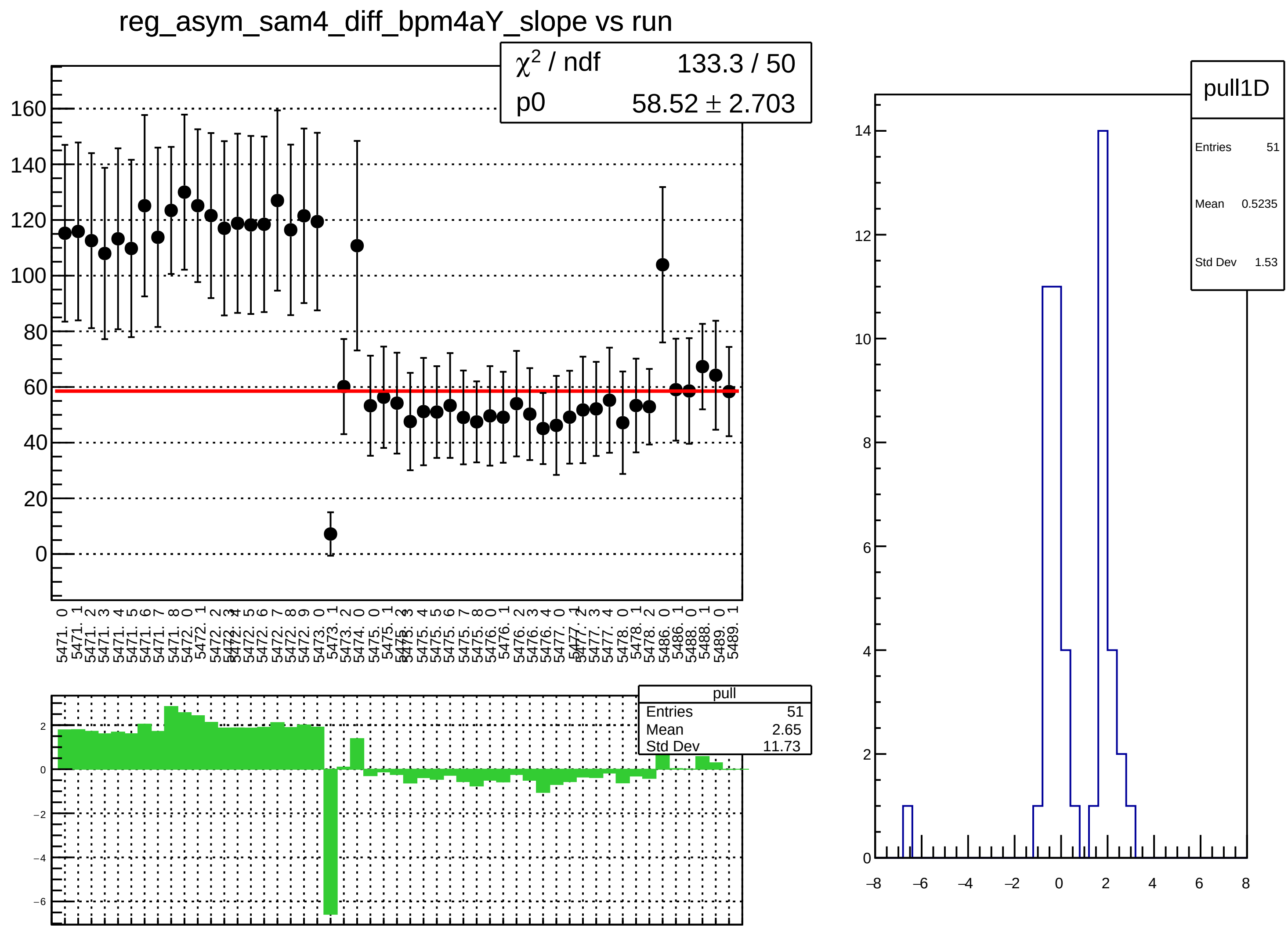
reg_asym_sam3_diff_bpm4eY_slope vs run
χ2 / ndf 4.913 / 50
p0 11.87 ± 2.581
pull
Entries 51
Mean 22.14
Std Dev 26.13
pull1D
Entries 51
Mean 0.06473
Std Dev 0.3036



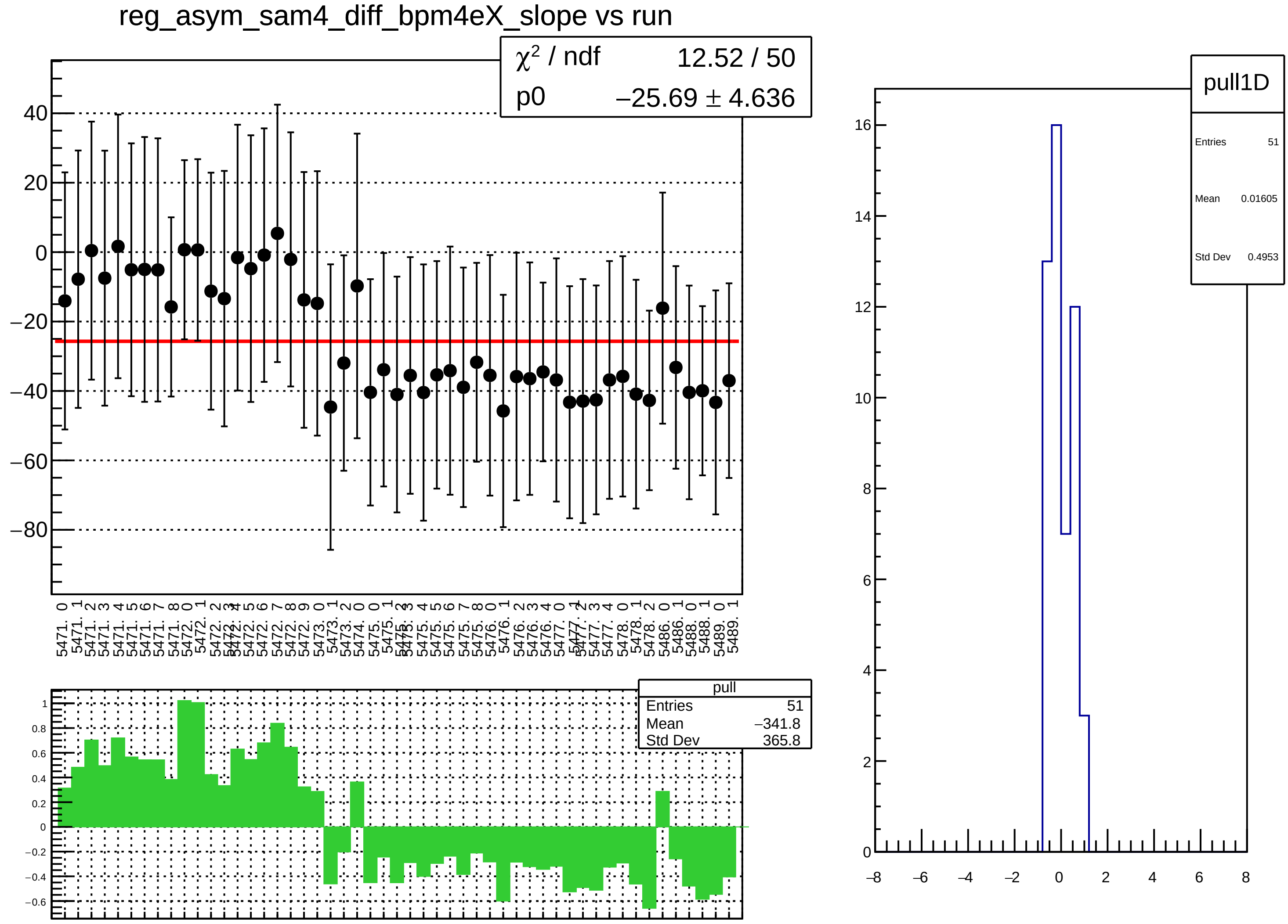
reg_asym_sam3_diff_bpm12X_slope vs run
χ^2 / ndf 8.171 / 50
p0 −0.7337 ± 0.09166
pull
Entries 51
Mean −240.8
Std Dev 265.2
pull1D
Entries 51
Mean −0.0177
Std Dev 0.3999



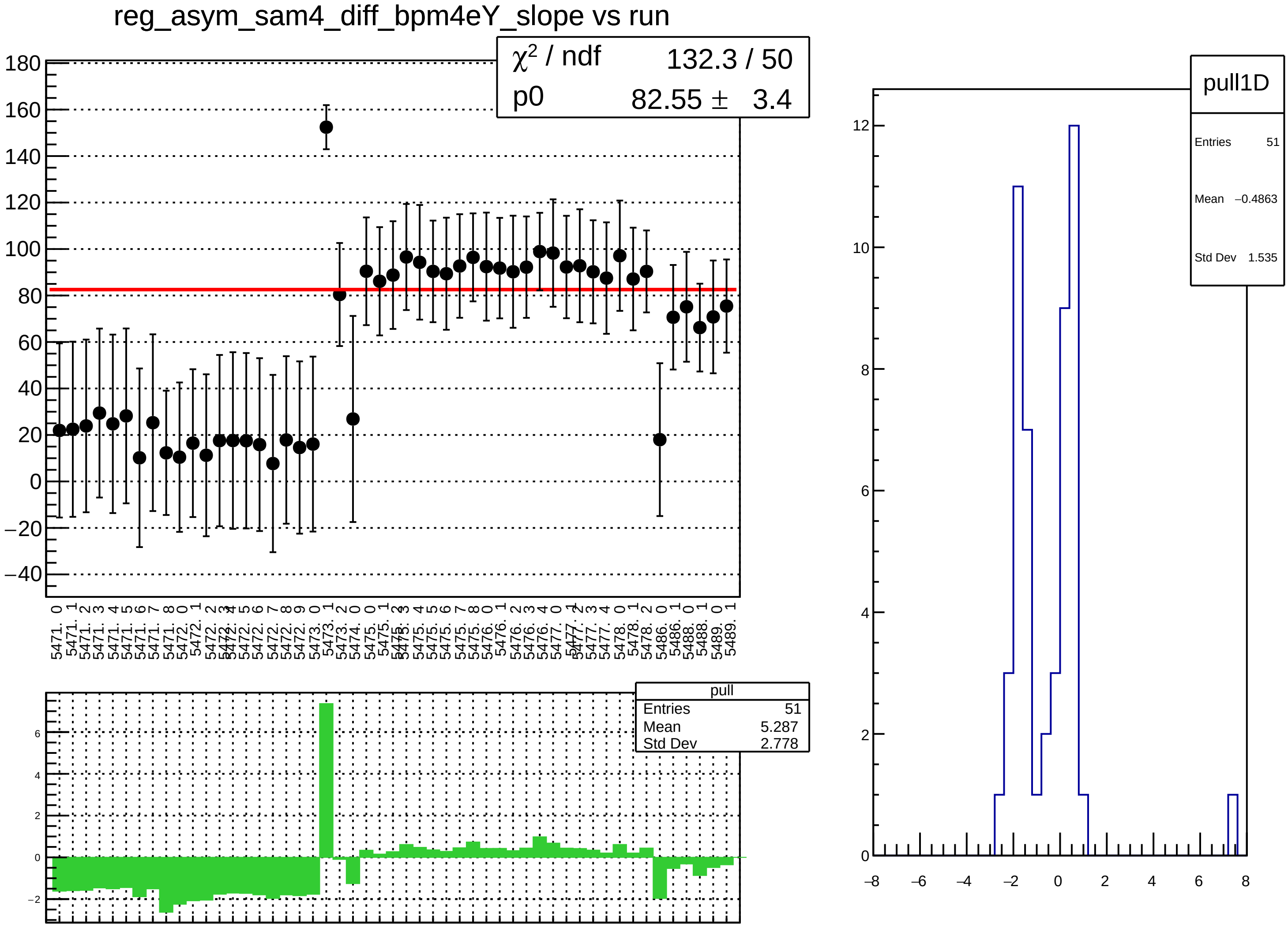
reg_asym_sam4_diff_bpm4aX_slope vs run
χ2 / ndf 17.38 / 50
p0 −103.2 ± 4.788
pull
Entries 51
Mean −370.4
Std Dev 395.4
pull1D
Entries 51
Mean −0.01868
Std Dev 0.5835



reg_asym_sam4_diff_bpm4aY_slope vs run
χ2 / ndf 133.3 / 50
p0 58.52 ± 2.703
pull
Entries 51
Mean 2.65
Std Dev 11.73
pull1D
Entries 51
Mean 0.5235
Std Dev 1.53

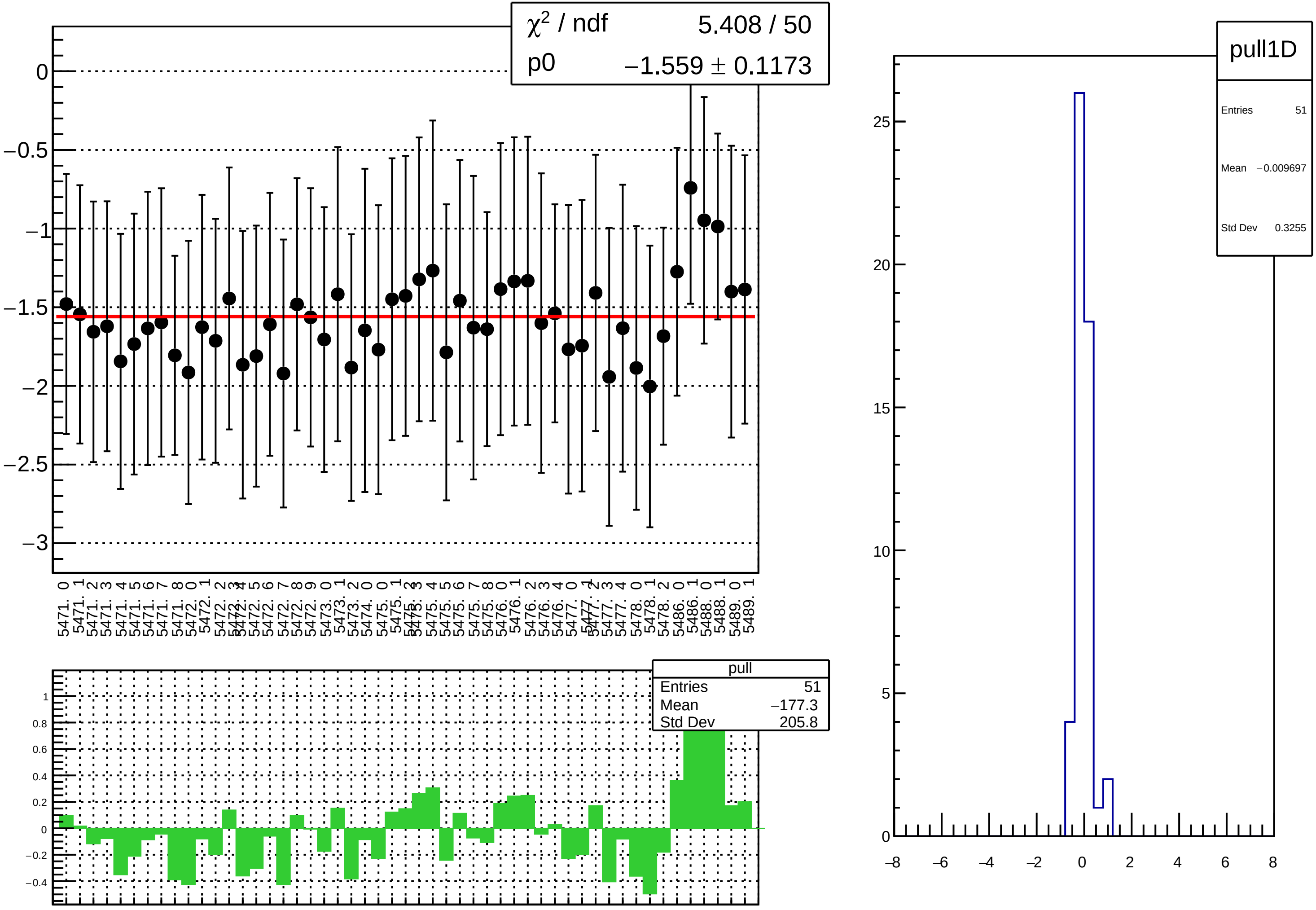


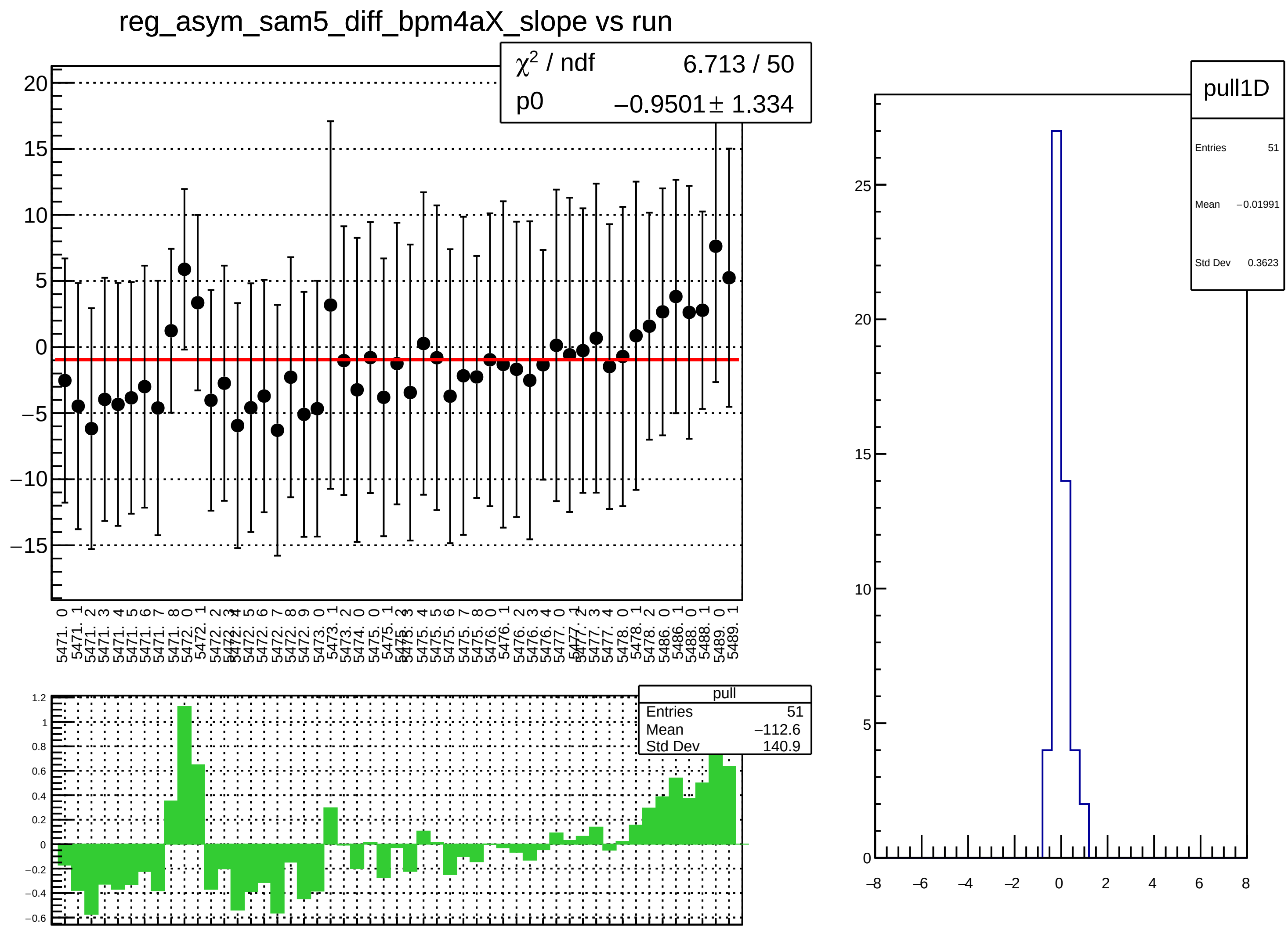
reg_asym_sam4_diff_bpm4eX_slope vs run
χ^2 / ndf 12.52 / 50
p0 −25.69 ± 4.636
pull
Entries 51
Mean −341.8
Std Dev 365.8
pull1D
Entries 51
Mean 0.01605
Std Dev 0.4953



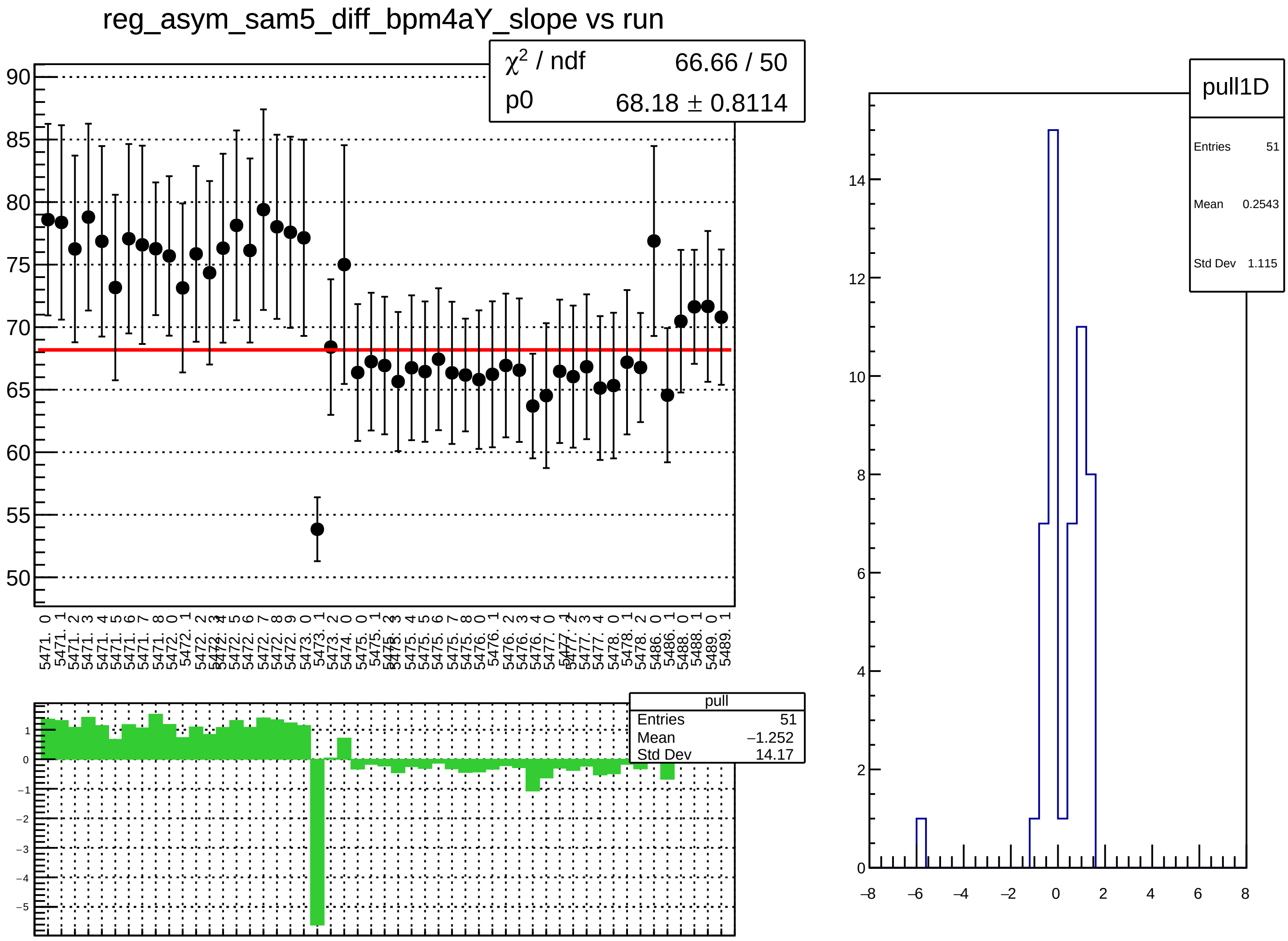
reg_asym_sam4_diff_bpm4eY_slope vs run
χ2 / ndf 132.3 / 50
p0 82.55 ± 3.4
pull
Entries 51
Mean 5.287
Std Dev 2.778
pull1D
Entries 51
Mean −0.4863
Std Dev 1.535

reg_asym_sam4_diff_bpm12X_slope vs run

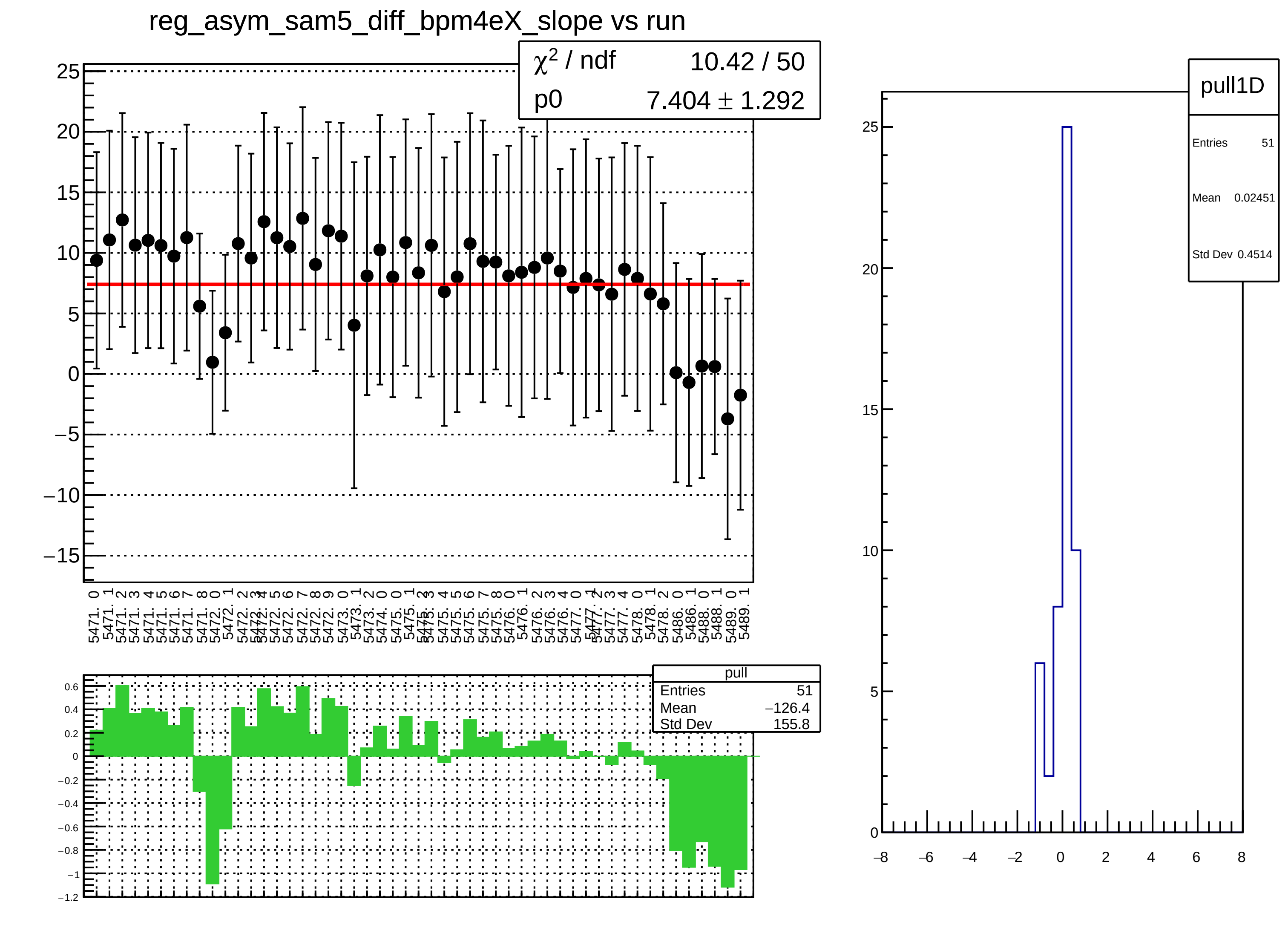




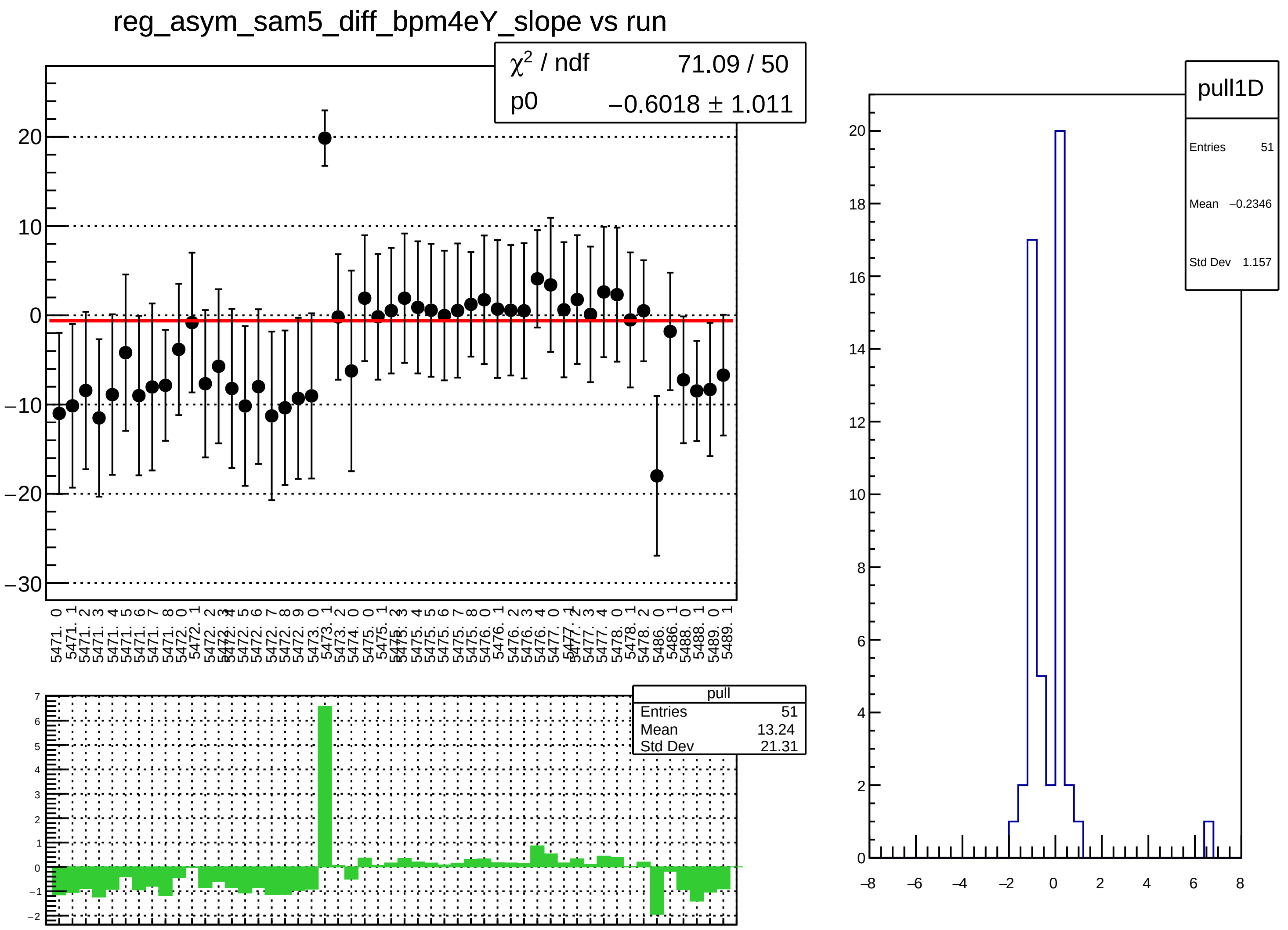
reg_asym_sam5_diff_bpm4aX_slope vs run
χ^2 / ndf 6.713 / 50
p0 −0.9501 ± 1.334
pull
Entries 51
Mean −112.6
Std Dev 140.9
pull1D
Entries 51
Mean −0.01991
Std Dev 0.3623



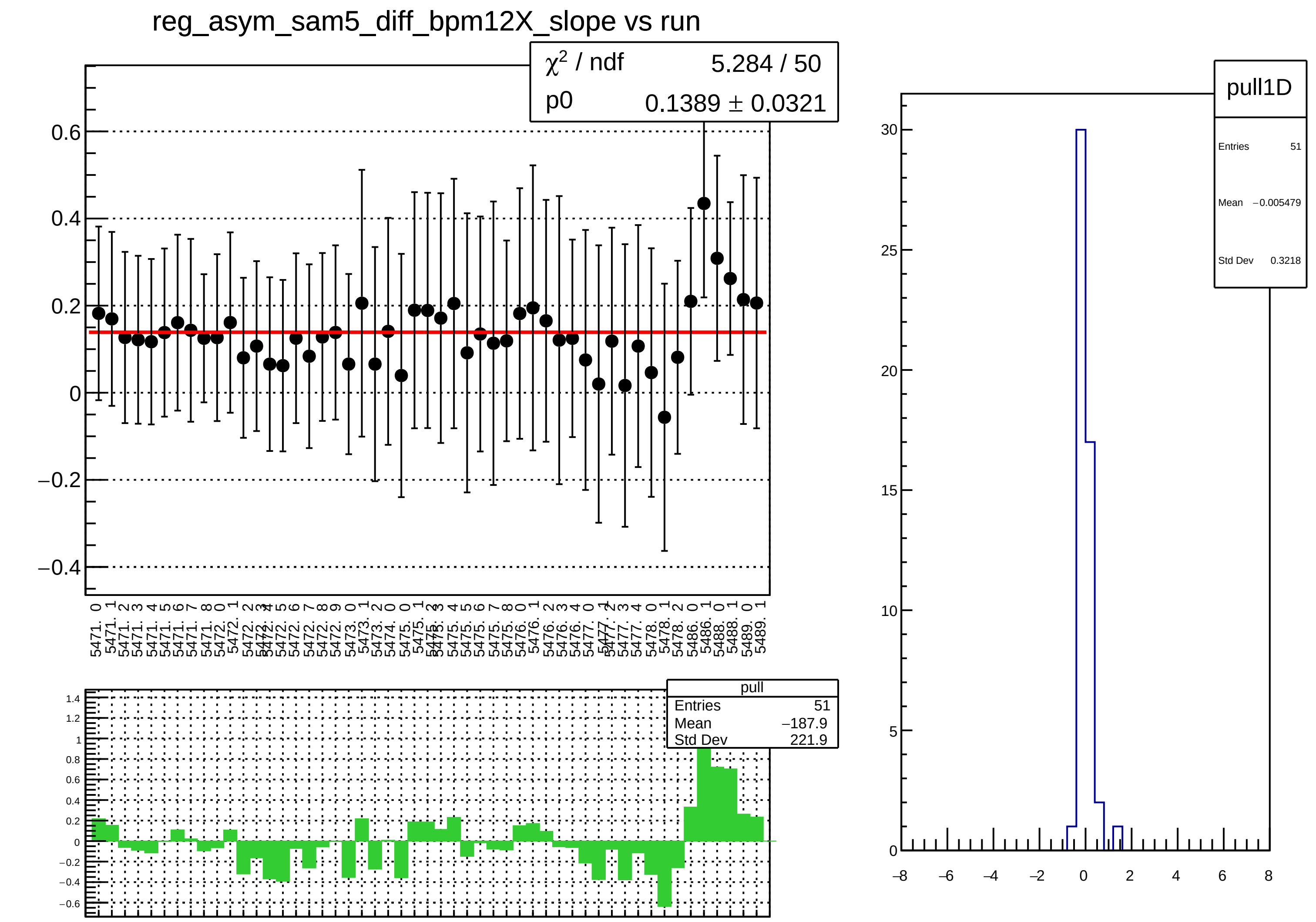
reg_asym_sam5_diff_bpm4aY_slope vs run
χ^2 / ndf 66.66 / 50
p0 68.18 ± 0.8114
pull
Entries 51
Mean −1.252
Std Dev 14.17
pull1D
Entries 51
Mean 0.2543
Std Dev 1.115

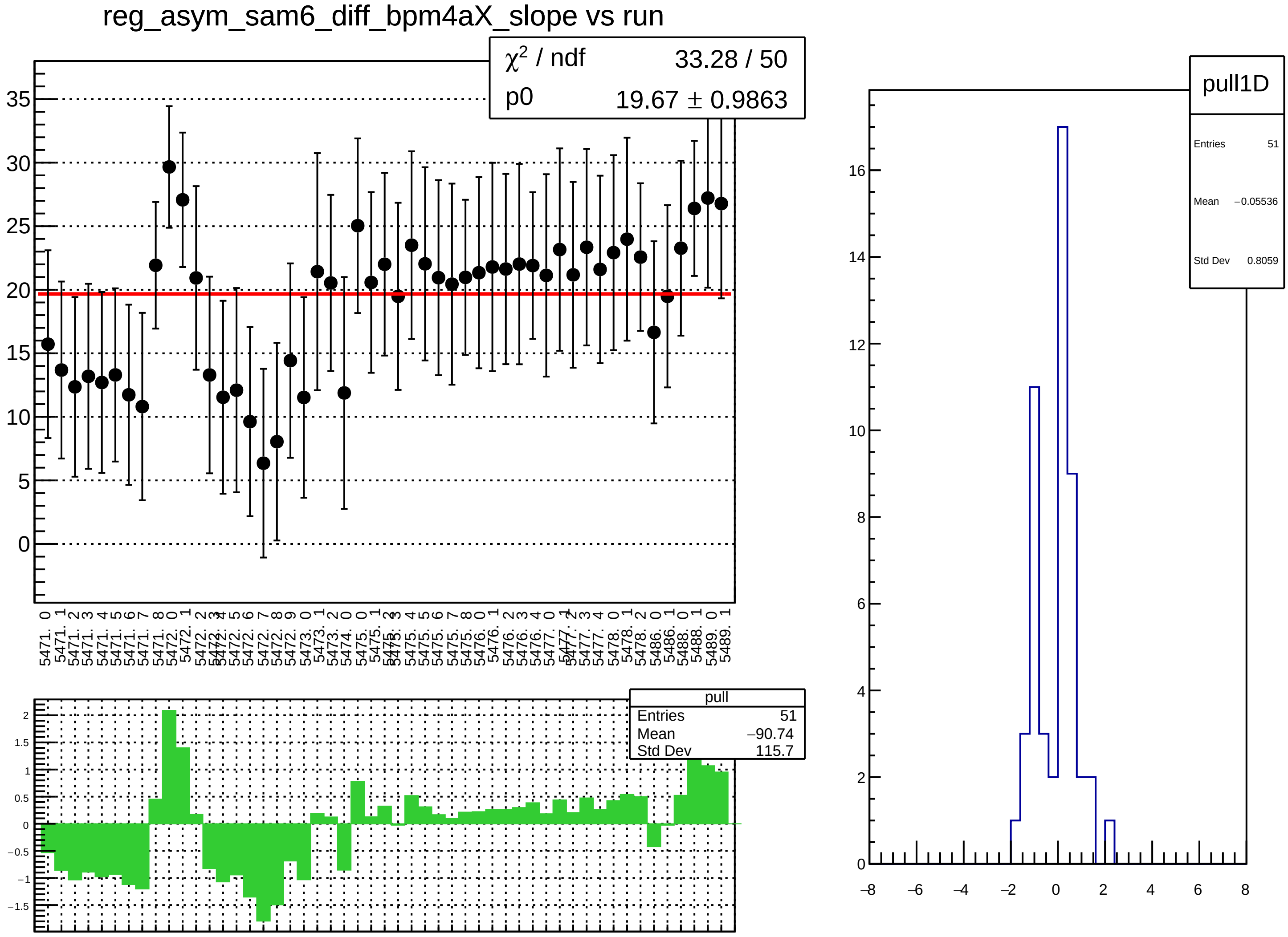


reg_asym_sam5_diff_bpm4eX_slope vs run
χ^2 / ndf 10.42 / 50
p0 7.404 ± 1.292
pull
Entries 51
Mean −126.4
Std Dev 155.8
pull1D
Entries 51
Mean 0.02451
Std Dev 0.4514

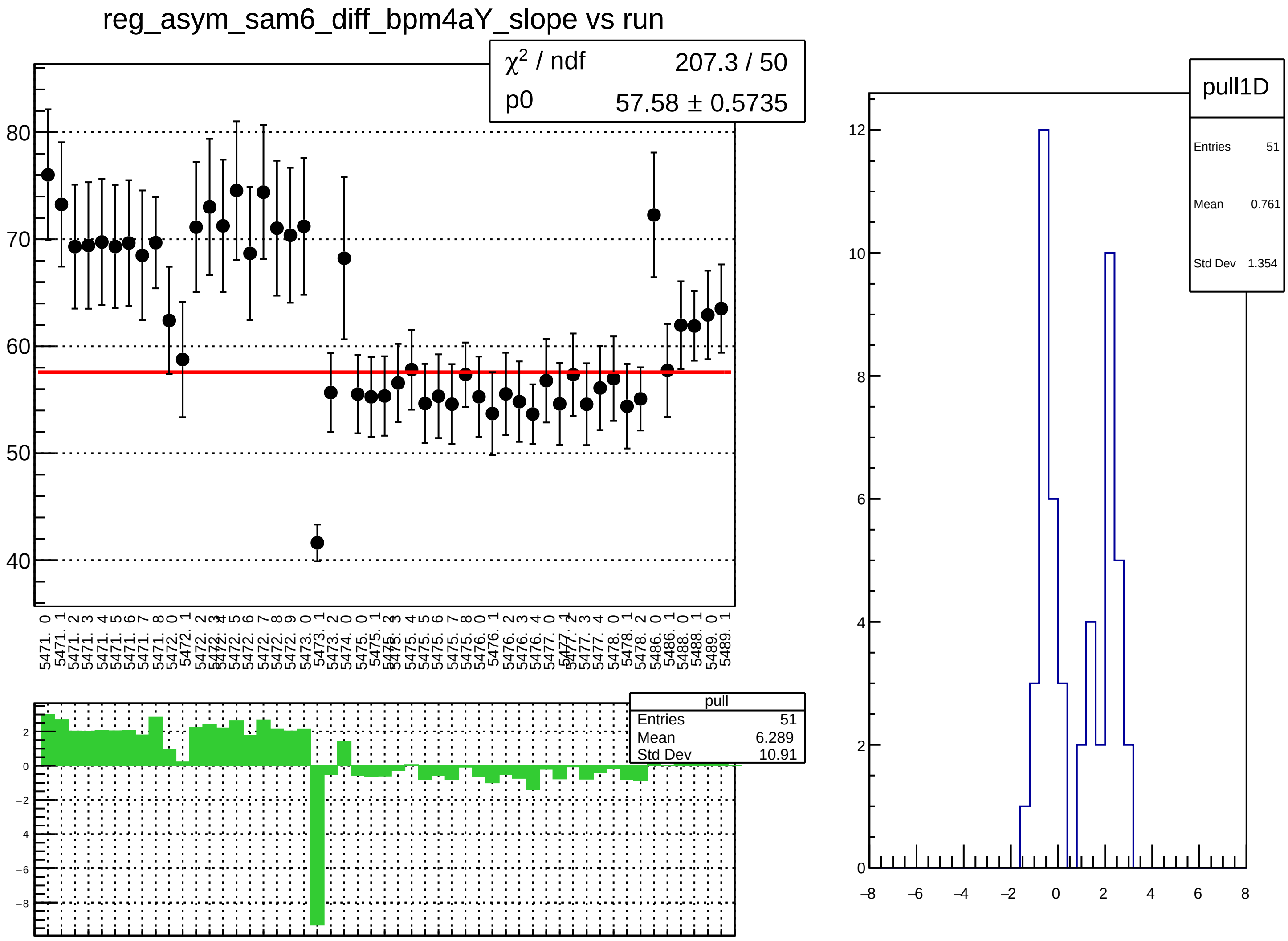


reg_asym_sam5_diff_bpm4eY_slope vs run
χ2 / ndf 71.09 / 50
p0 −0.6018 ± 1.011
pull
Entries 51
Mean 13.24
Std Dev 21.31
pull1D
Entries 51
Mean −0.2346
Std Dev 1.157

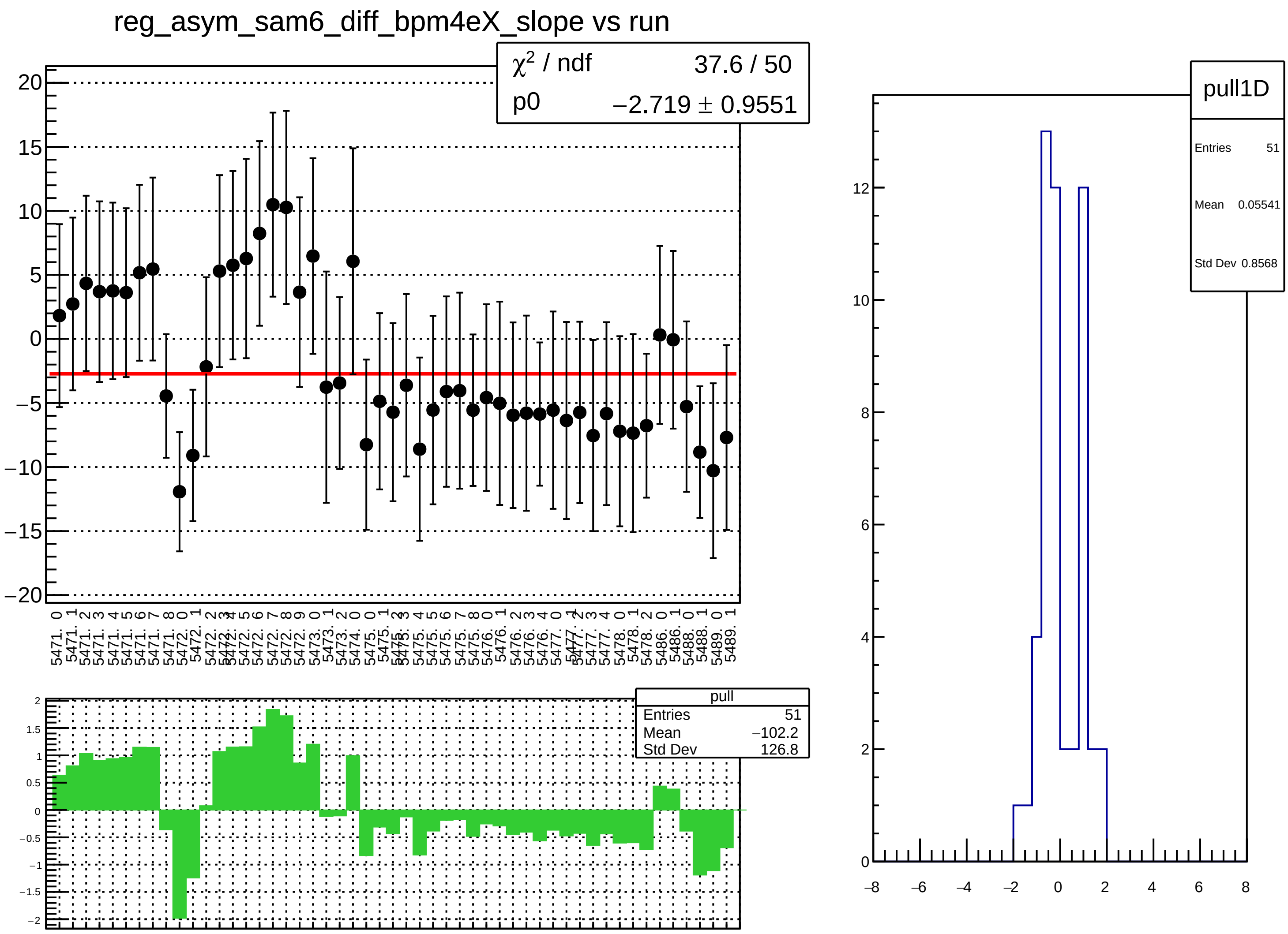

reg_asym_sam5_diff_bpm12X_slope vs run
χ^2 / ndf 5.284 / 50
p0 0.1389 ± 0.0321
pull
Entries 51
Mean −187.9
Std Dev 221.9
pull1D
Entries 51
Mean −0.005479
Std Dev 0.3218



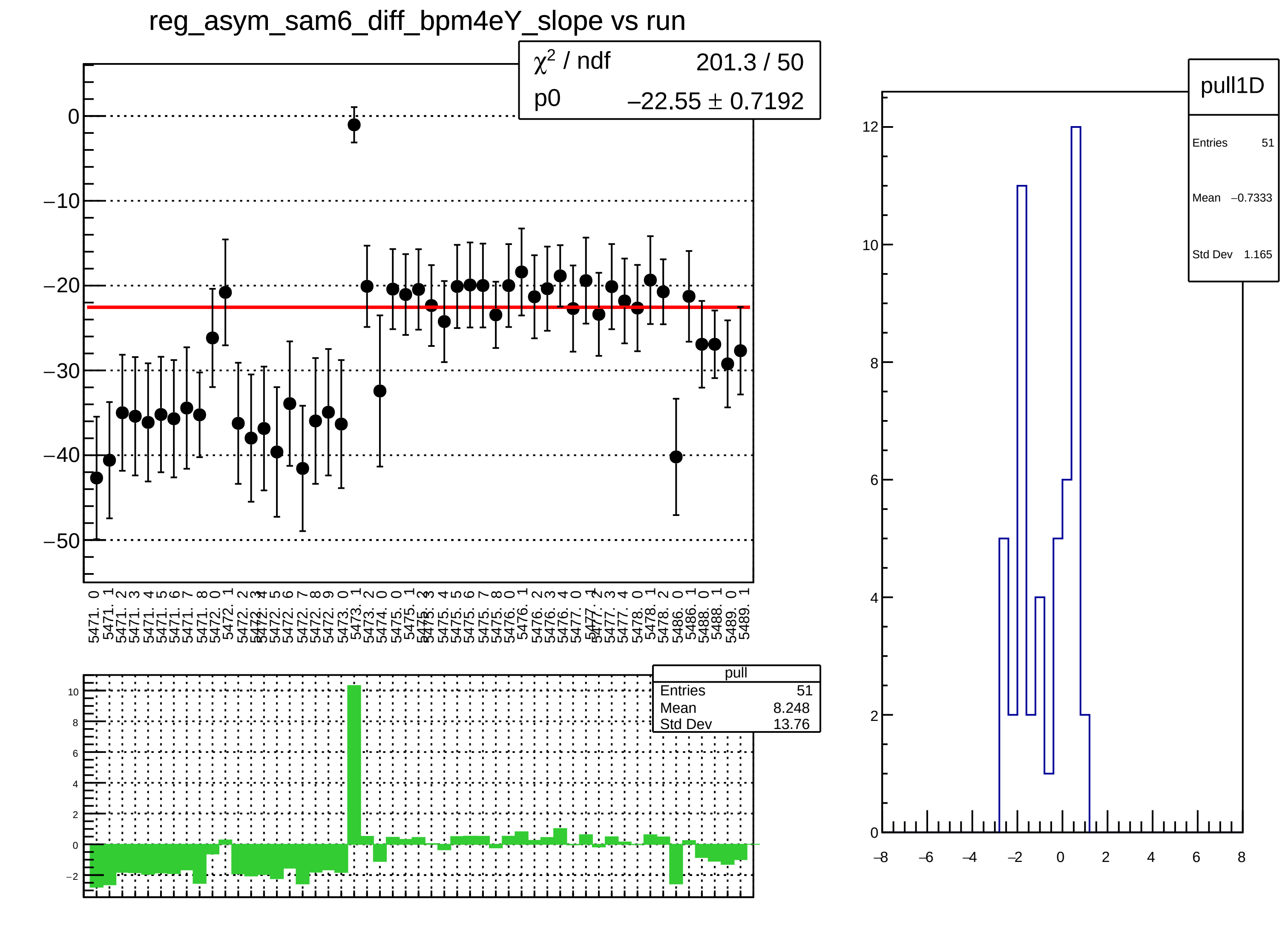
reg_asym_sam6_diff_bpm4aX_slope vs run
χ^2 / ndf 33.28 / 50
p0 19.67 ± 0.9863
35
30
25
20
15
10
5
0
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean −90.74
Std Dev 115.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean −0.05536
Std Dev 0.8059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



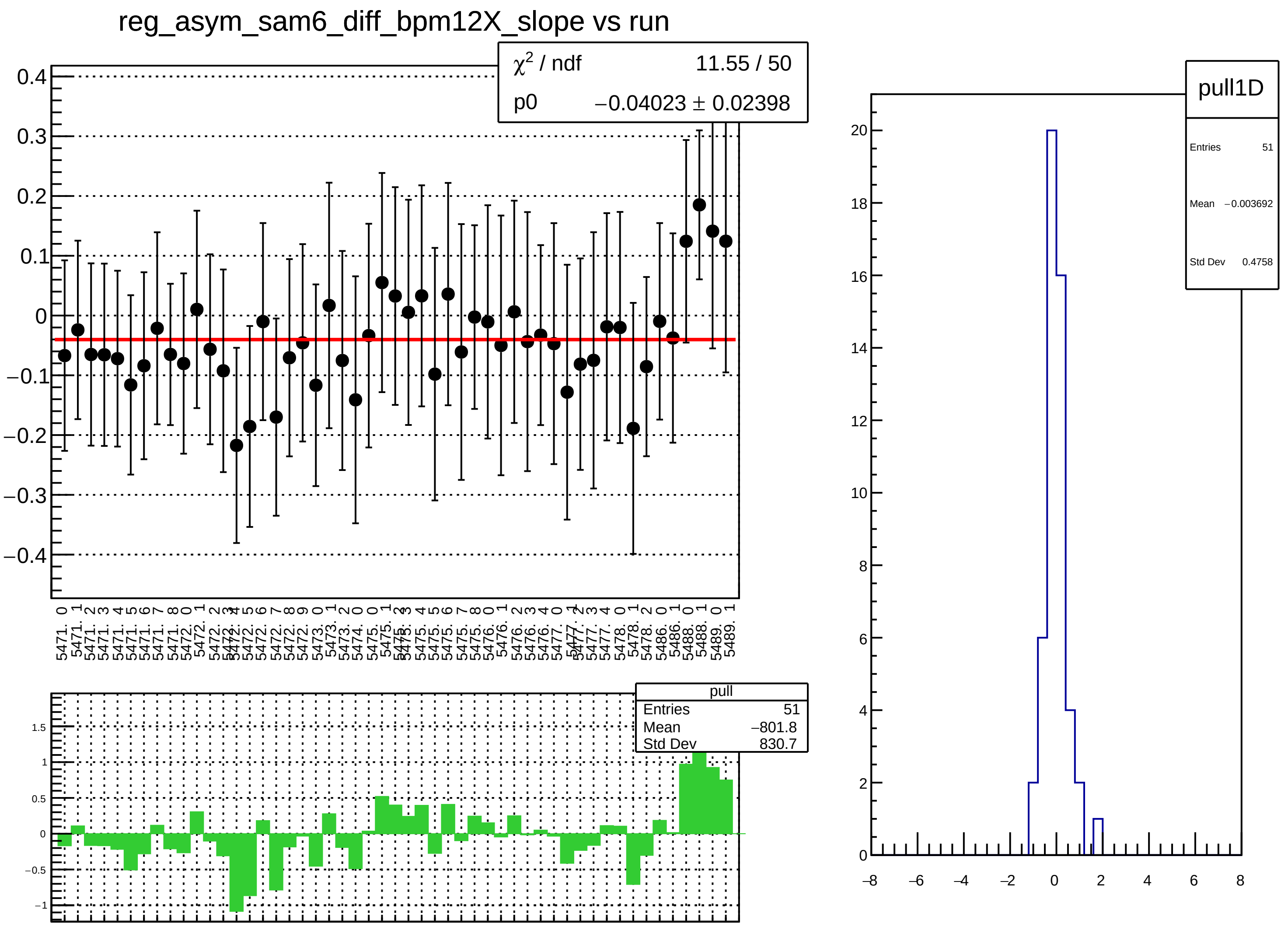
reg_asym_sam6_diff_bpm4aY_slope vs run
χ^2 / ndf 207.3 / 50
p0 57.58 ± 0.5735
pull
Entries 51
Mean 6.289
Std Dev 10.91
pull1D
Entries 51
Mean 0.761
Std Dev 1.354



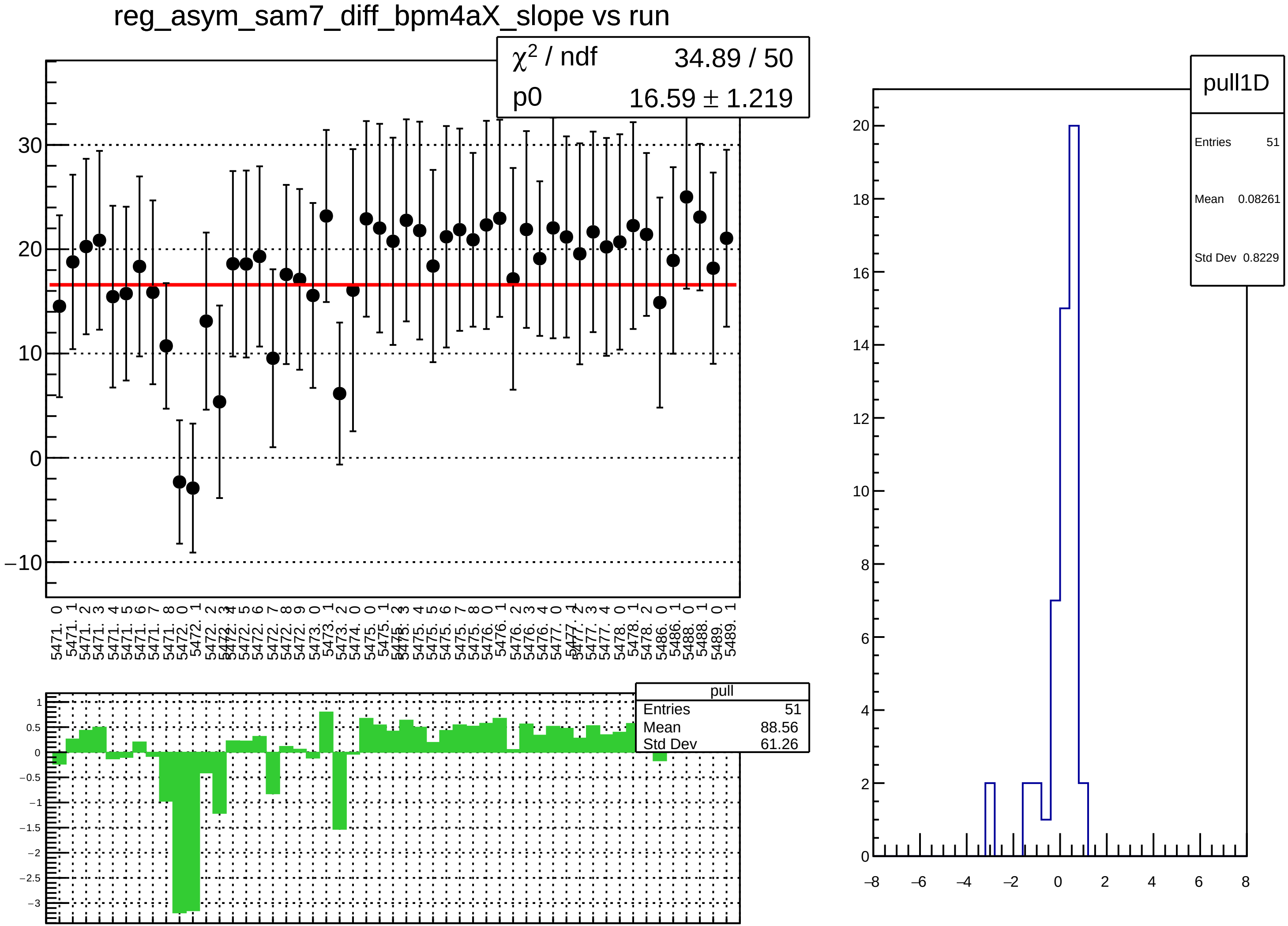
reg_asym_sam6_diff_bpm4eX_slope vs run
χ^2 / ndf 37.6 / 50
p0 −2.719 ± 0.9551
pull
Entries 51
Mean −102.2
Std Dev 126.8
pull1D
Entries 51
Mean 0.05541
Std Dev 0.8568



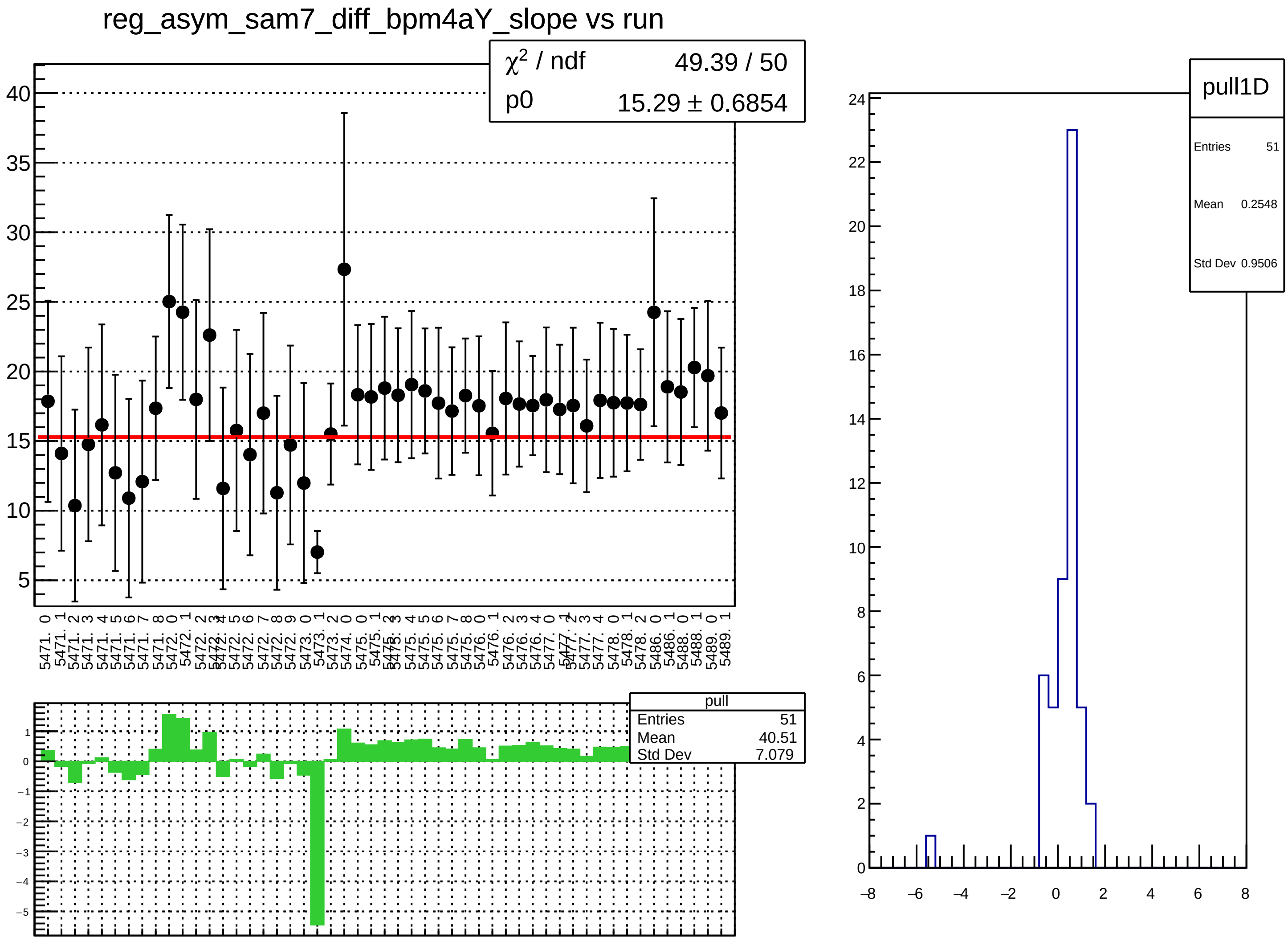
reg_asym_sam6_diff_bpm4eY_slope vs run
χ^2 / ndf 201.3 / 50
p0 −22.55 ± 0.7192
0
−10
−20
−30
−40
−50
pull
Entries 51
Mean 8.248
Std Dev 13.76
pull1D
Entries 51
Mean −0.7333
Std Dev 1.165



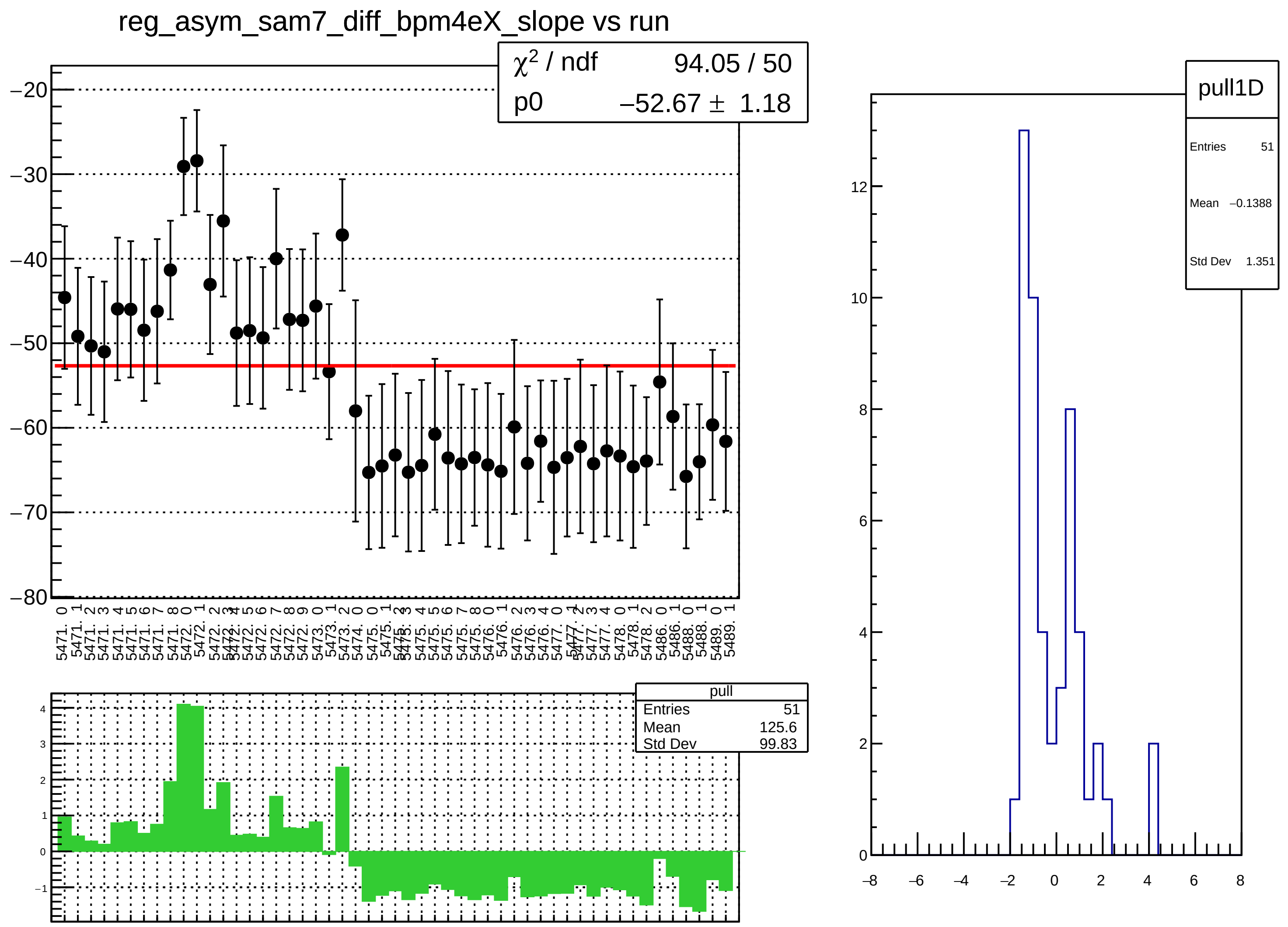
reg_asym_sam6_diff_bpm12X_slope vs run
χ2 / ndf 11.55 / 50
p0 −0.04023 ± 0.02398
pull
Entries 51
Mean −801.8
Std Dev 830.7
pull1D
Entries 51
Mean −0.003692
Std Dev 0.4758



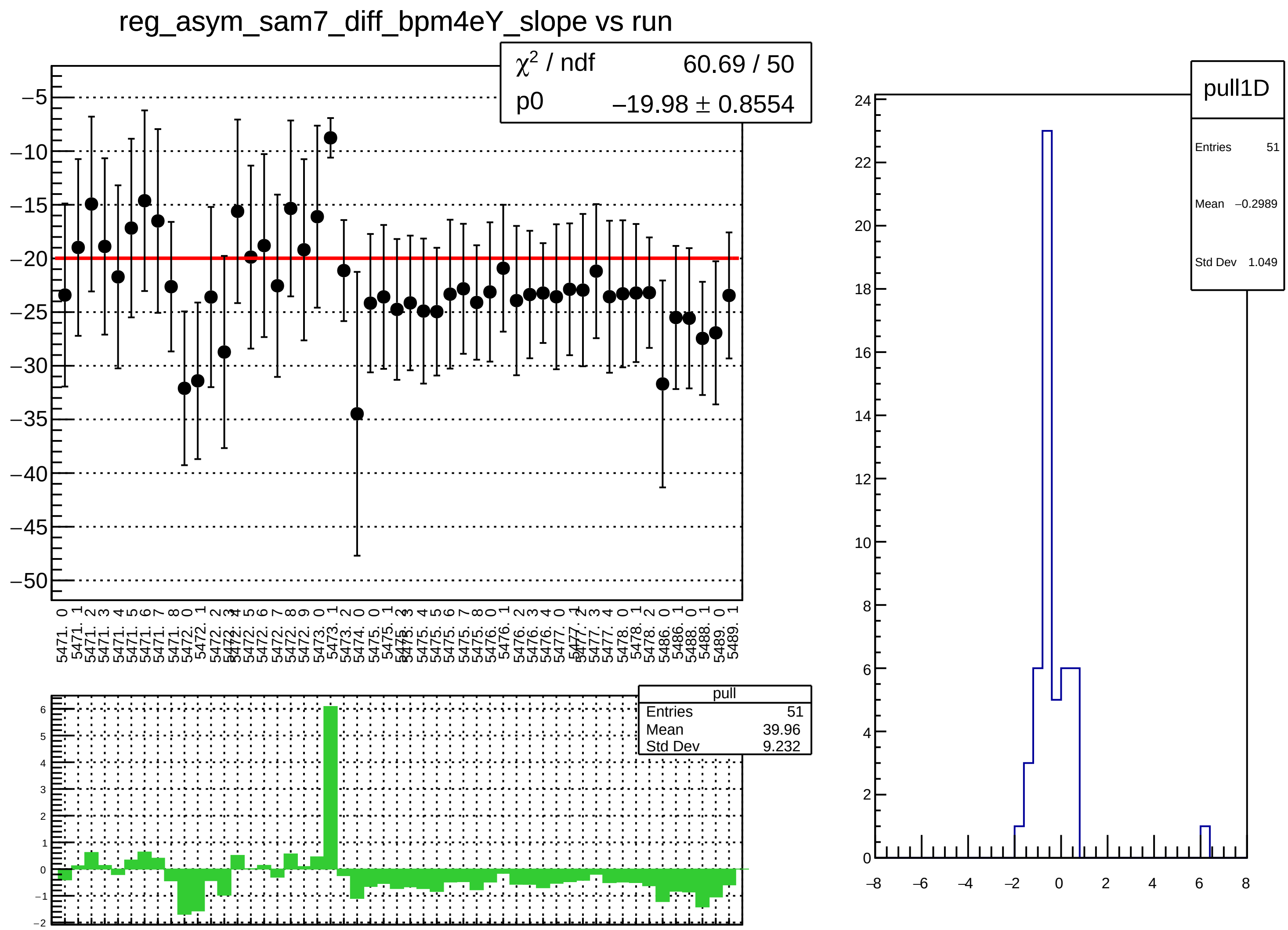
reg_asym_sam7_diff_bpm4aX_slope vs run
χ^2 / ndf 34.89 / 50
p0 16.59 ± 1.219
pull
Entries 51
Mean 88.56
Std Dev 61.26
pull1D
Entries 51
Mean 0.08261
Std Dev 0.8229



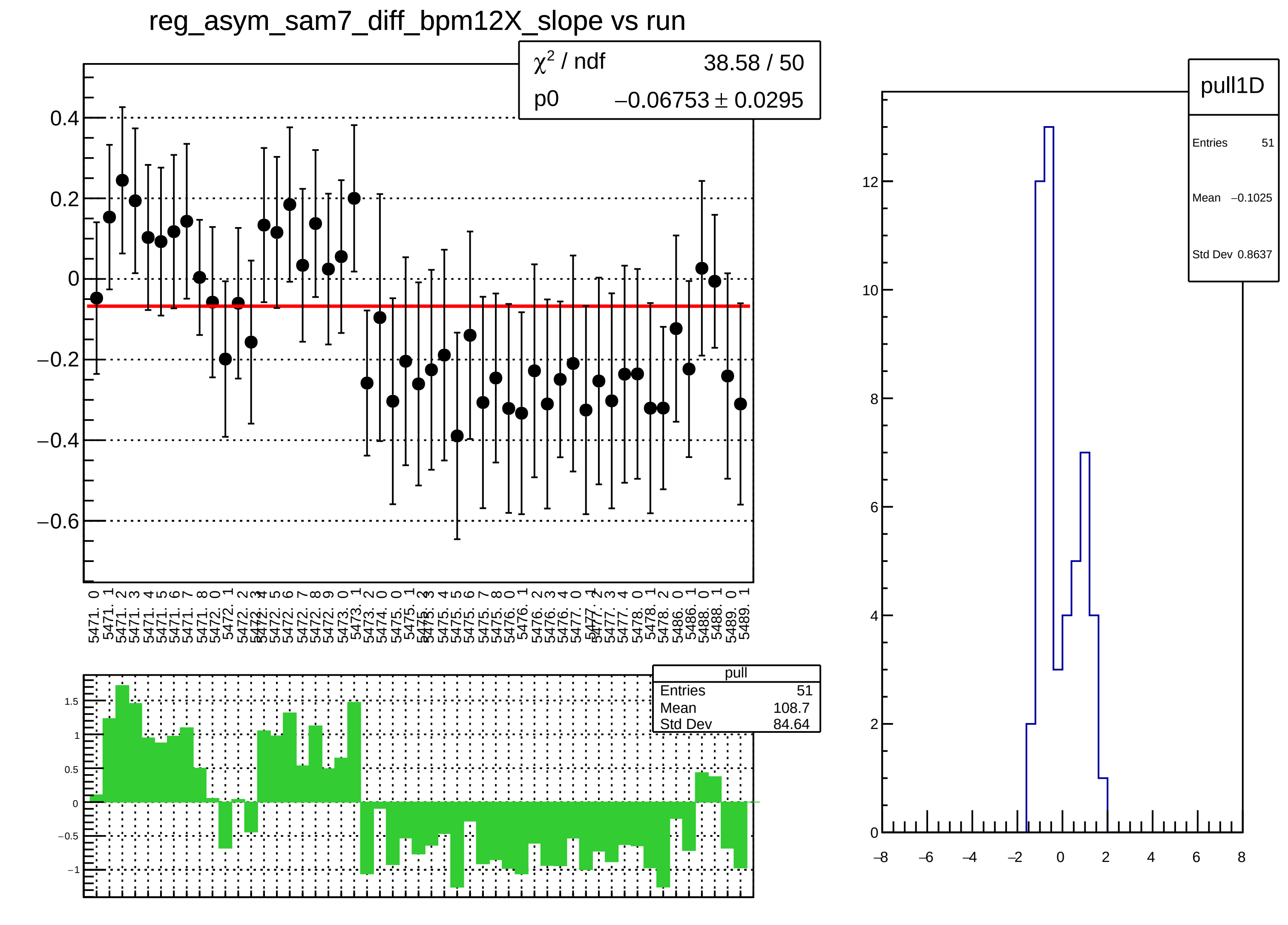
reg_asym_sam7_diff_bpm4aY_slope vs run
χ^2 / ndf 49.39 / 50
p0 15.29 ± 0.6854
pull
Entries 51
Mean 40.51
Std Dev 7.079
pull1D
Entries 51
Mean 0.2548
Std Dev 0.9506



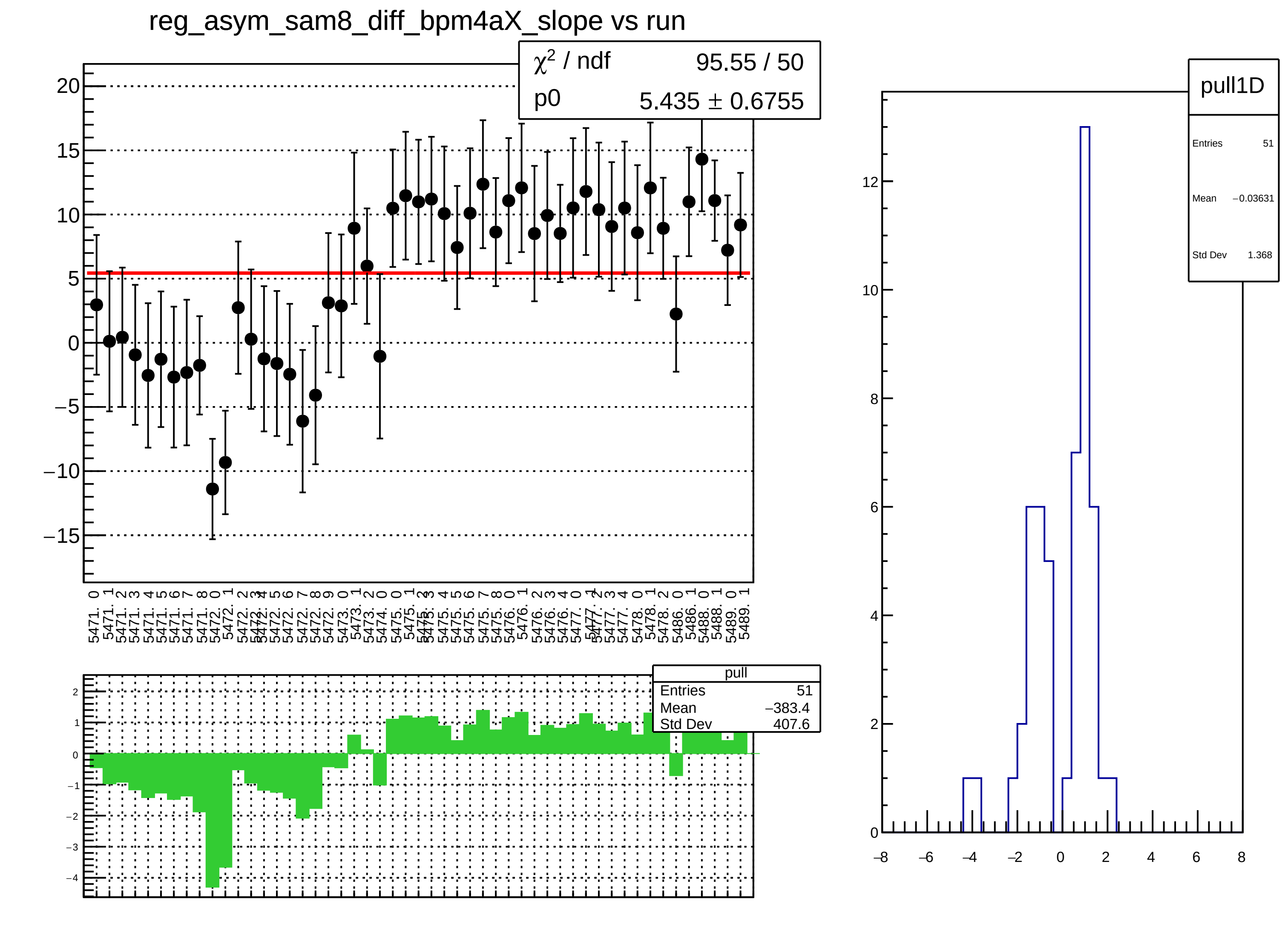
reg_asym_sam7_diff_bpm4eX_slope vs run
χ^2 / ndf 94.05 / 50
p0 −52.67 ± 1.18
pull
Entries 51
Mean 125.6
Std Dev 99.83
pull1D
Entries 51
Mean −0.1388
Std Dev 1.351



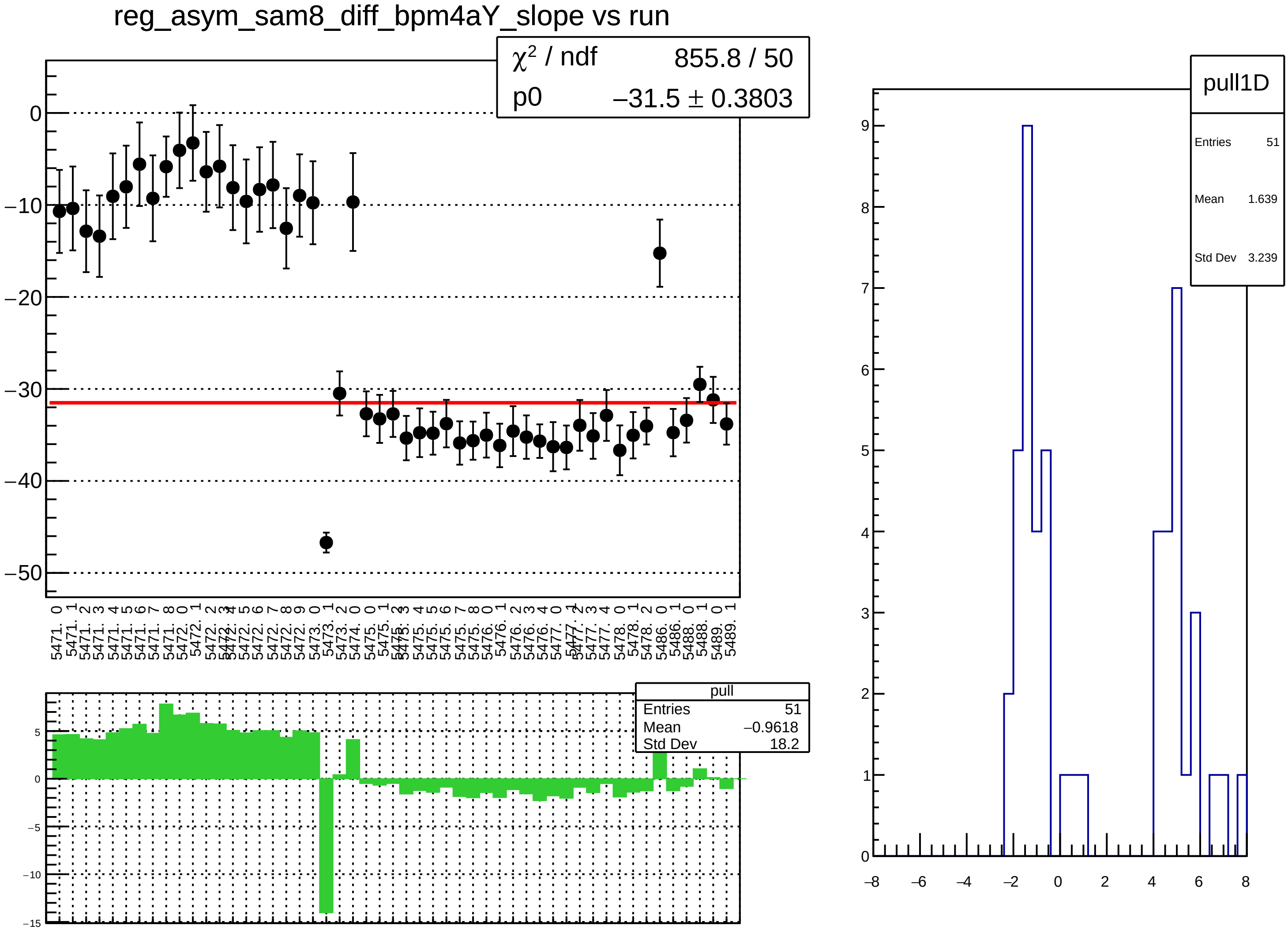
reg_asym_sam7_diff_bpm4eY_slope vs run
χ2 / ndf 60.69 / 50
p0 −19.98 ± 0.8554
pull
Entries 51
Mean 39.96
Std Dev 9.232
pull1D
Entries 51
Mean −0.2989
Std Dev 1.049

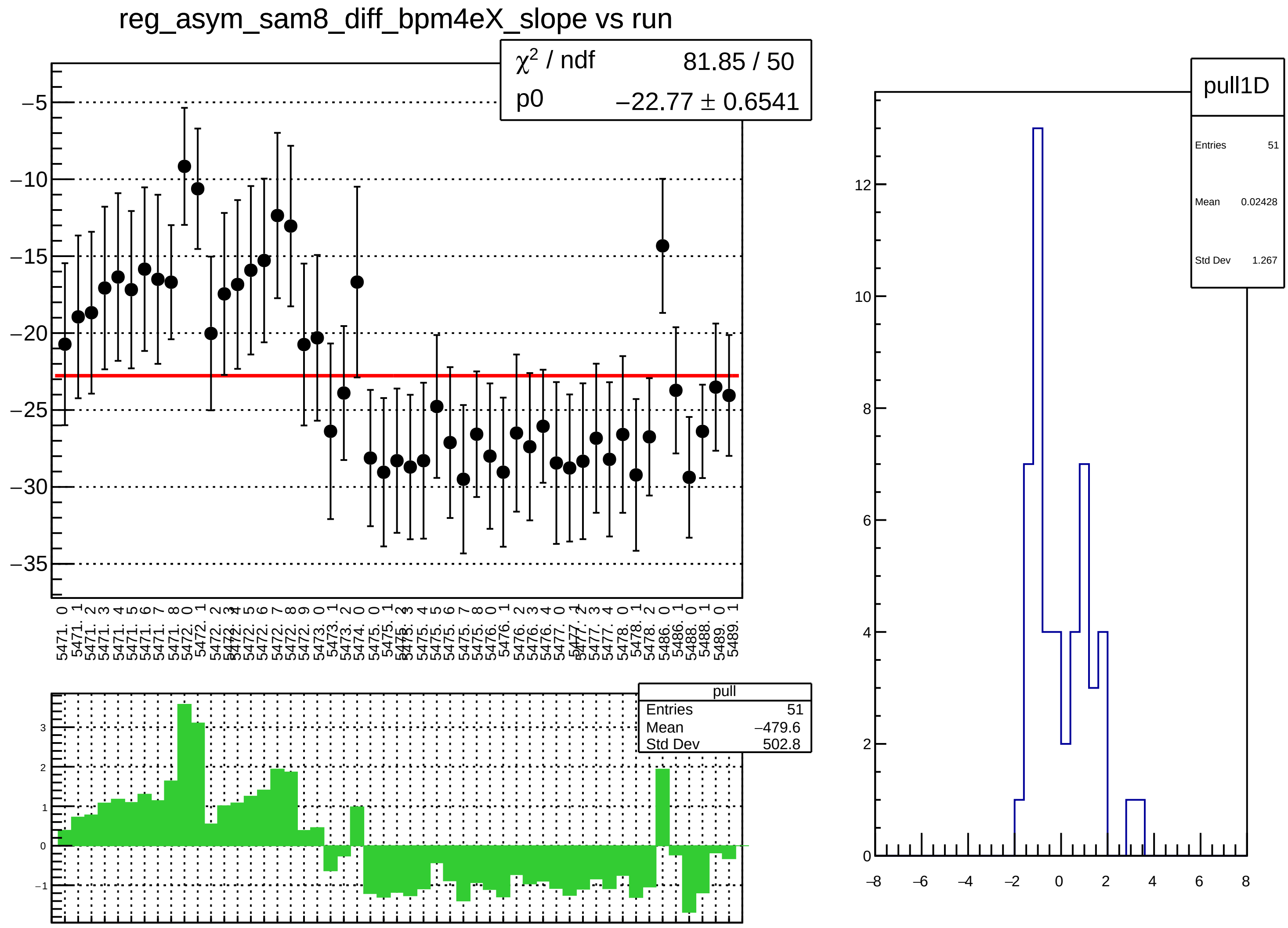


reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 38.58 / 50
p0 −0.06753 ± 0.0295
pull
Entries 51
Mean 108.7
Std Dev 84.64
pull1D
Entries 51
Mean −0.1025
Std Dev 0.8637

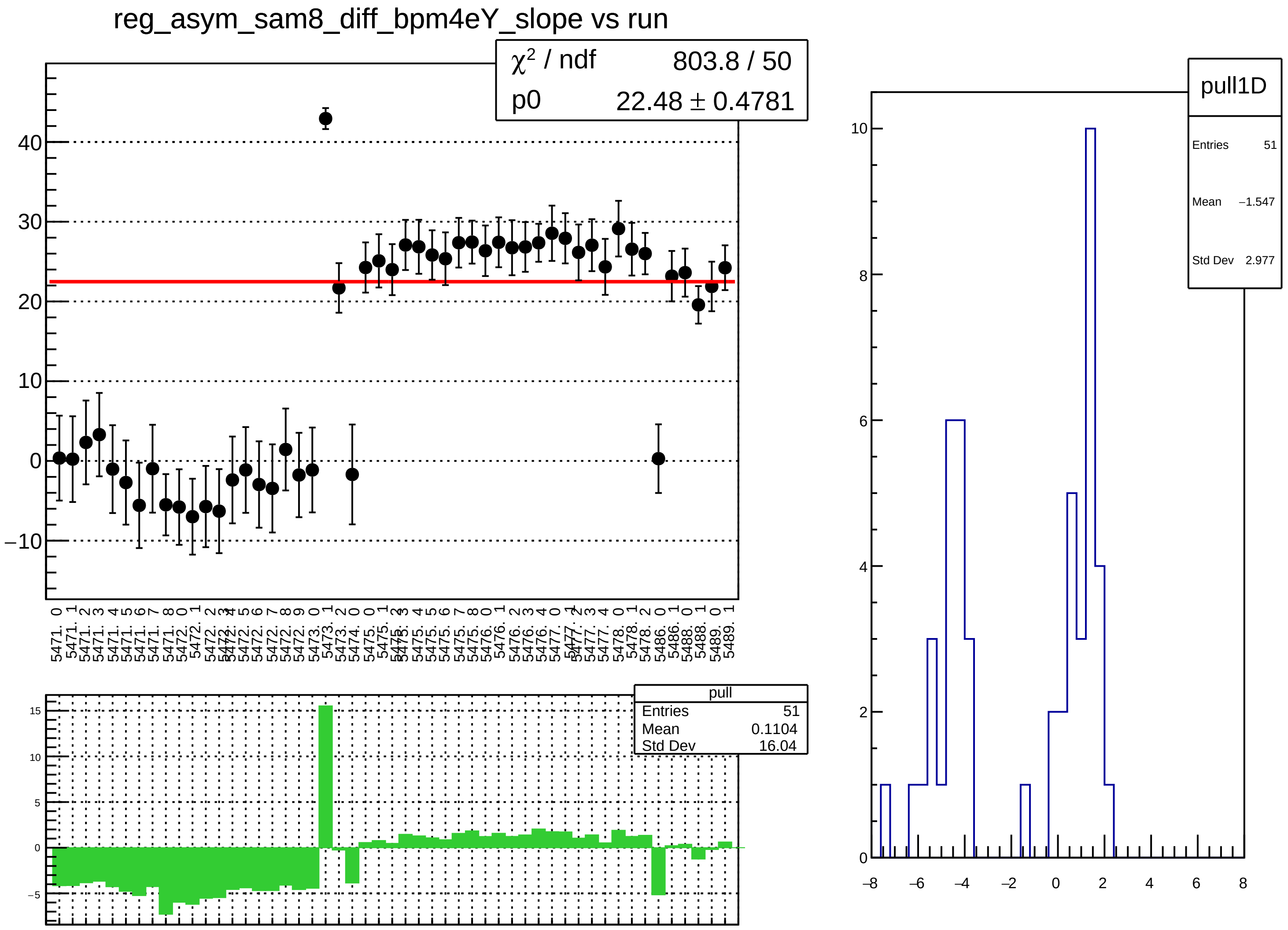


reg_asym_sam8_diff_bpm4aX_slope vs run
χ2 / ndf 95.55 / 50
p0 5.435 ± 0.6755
pull
Entries 51
Mean −383.4
Std Dev 407.6
pull1D
Entries 51
Mean −0.03631
Std Dev 1.368

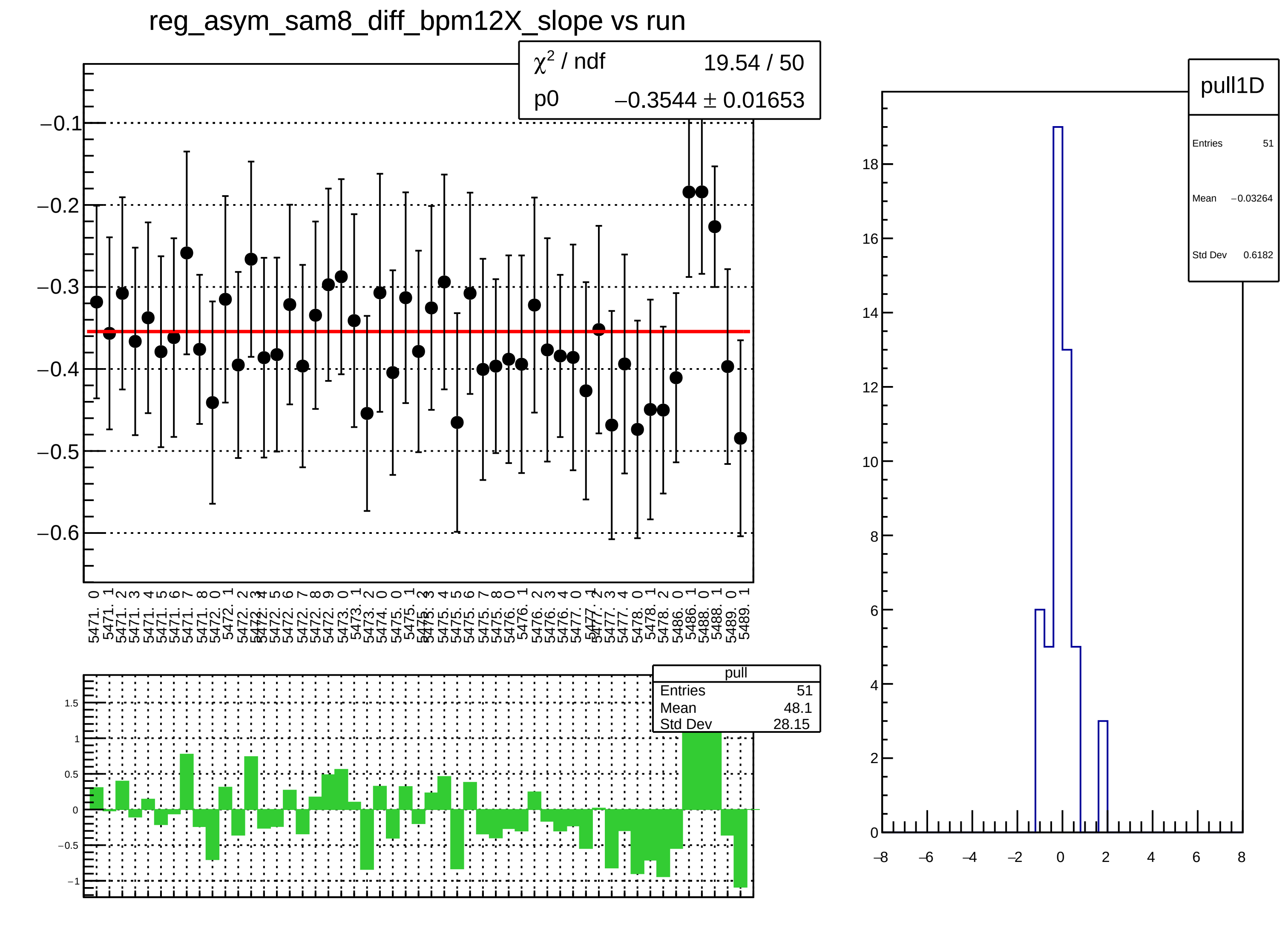

reg_asym_sam8_diff_bpm4aY_slope vs run
χ^2 / ndf 855.8 / 50
p0 −31.5 ± 0.3803
pull
Entries 51
Mean −0.9618
Std Dev 18.2
pull1D
Entries 51
Mean 1.639
Std Dev 3.239



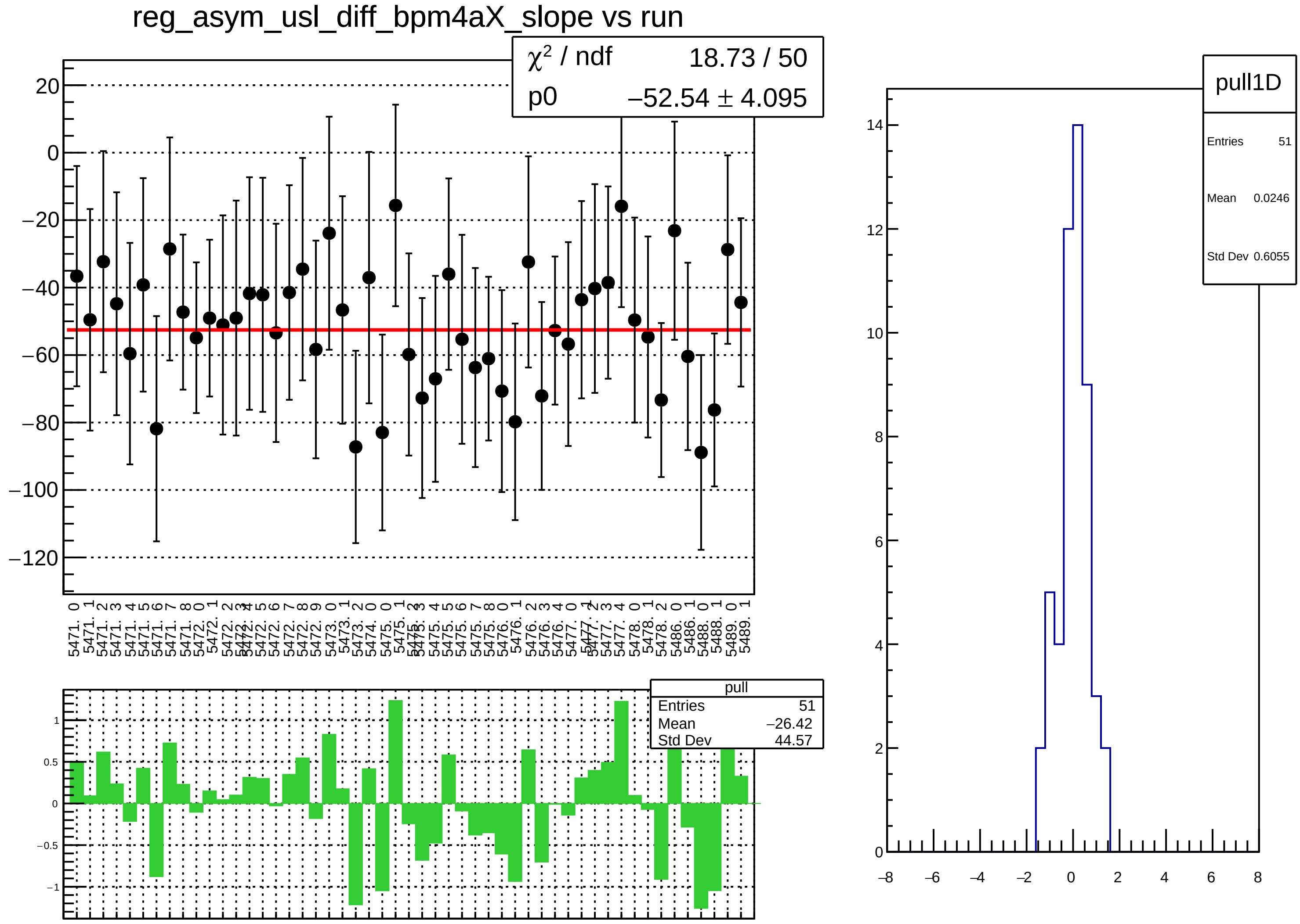
reg_asym_sam8_diff_bpm4eX_slope vs run
χ^2 / ndf 81.85 / 50
p0 −22.77 ± 0.6541
pull
Entries 51
Mean −479.6
Std Dev 502.8
pull1D
Entries 51
Mean 0.02428
Std Dev 1.267

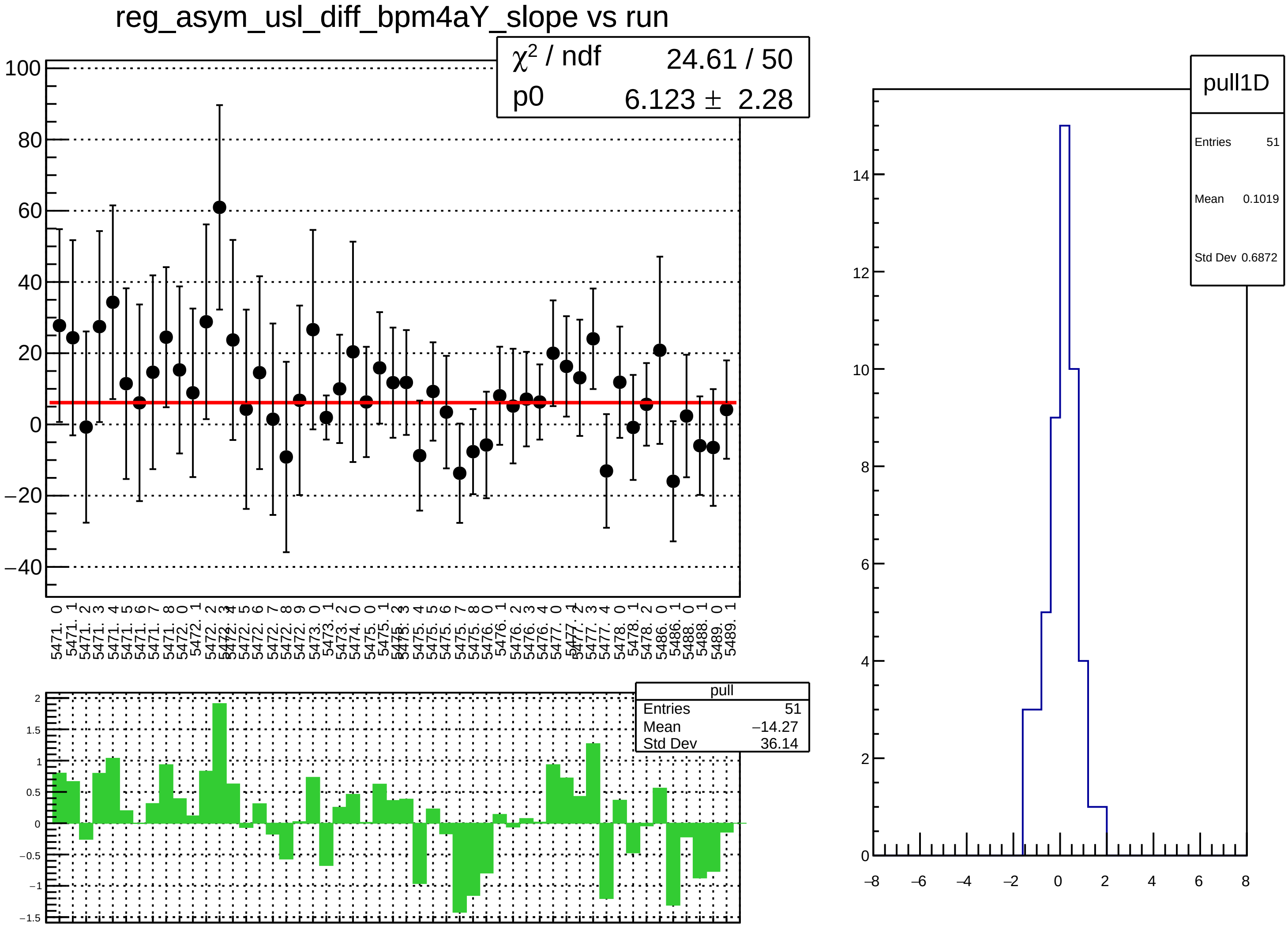


reg_asym_sam8_diff_bpm4eY_slope vs run
χ^2 / ndf 803.8 / 50
p0 22.48 ± 0.4781
pull
Entries 51
Mean 0.1104
Std Dev 16.04
pull1D
Entries 51
Mean −1.547
Std Dev 2.977

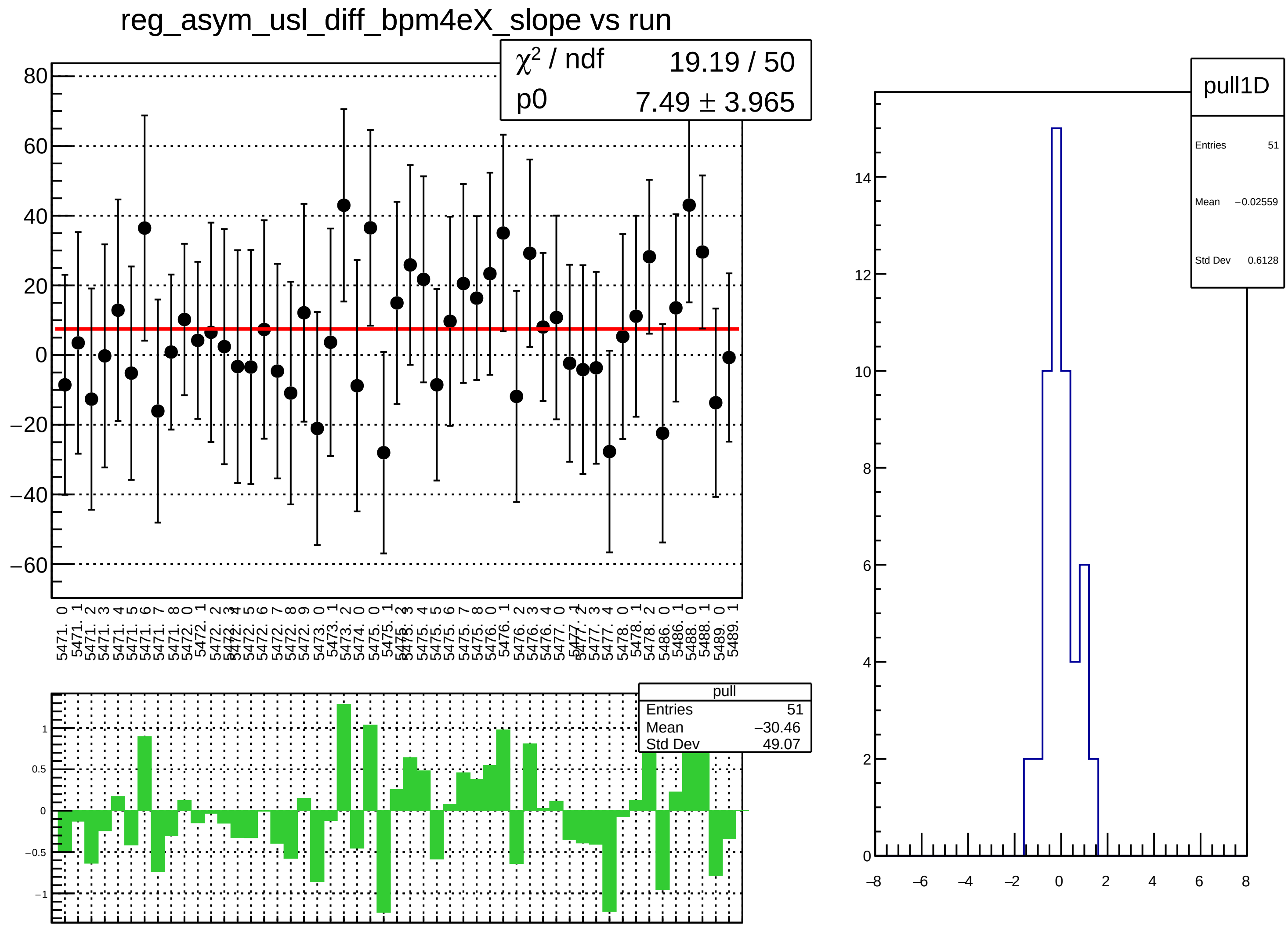


reg_asym_sam8_diff_bpm12X_slope vs run
χ^2 / ndf 19.54 / 50
p0 −0.3544 ± 0.01653
pull
Entries 51
Mean 48.1
Std Dev 28.15
pull1D
Entries 51
Mean −0.03264
Std Dev 0.6182

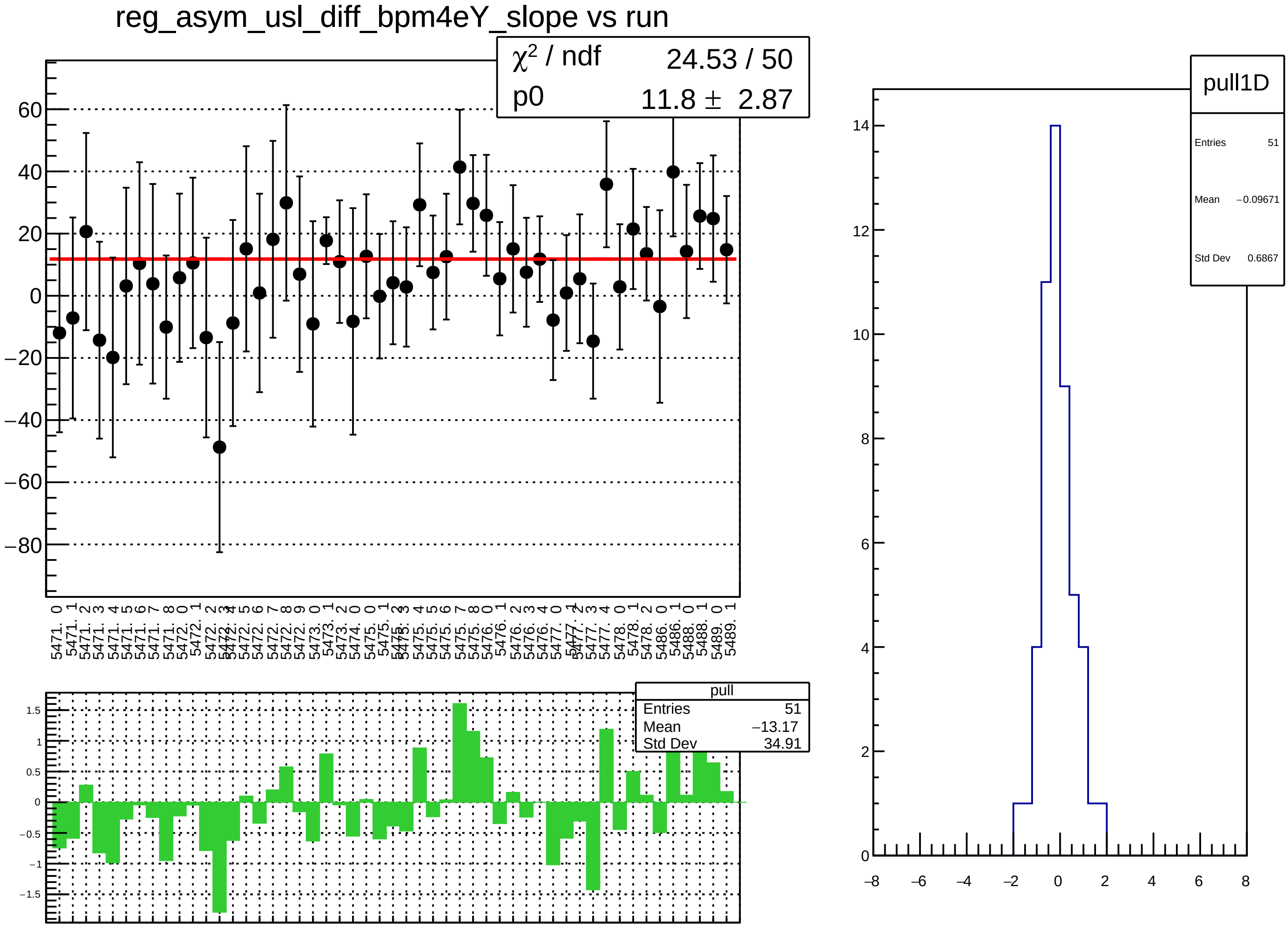

reg_asym_usl_diff_bpm4aX_slope vs run
χ^2 / ndf 18.73 / 50
p0 −52.54 ± 4.095
pull
Entries 51
Mean −26.42
Std Dev 44.57
pull1D
Entries 51
Mean 0.0246
Std Dev 0.6055



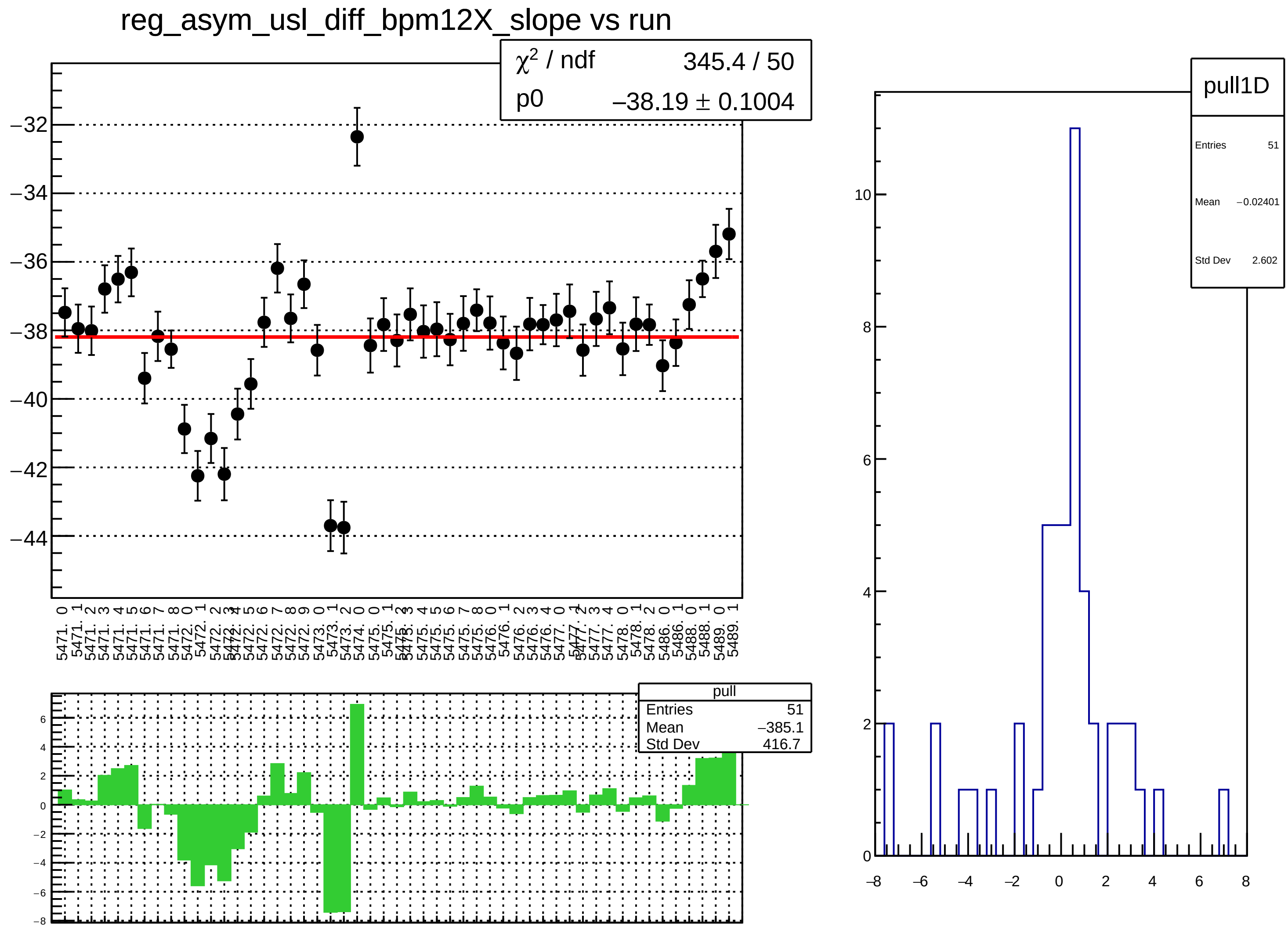
reg_asym_usl_diff_bpm4aY_slope vs run
χ^2 / ndf 24.61 / 50
p0 6.123 ± 2.28
pull
Entries 51
Mean −14.27
Std Dev 36.14
pull1D
Entries 51
Mean 0.1019
Std Dev 0.6872



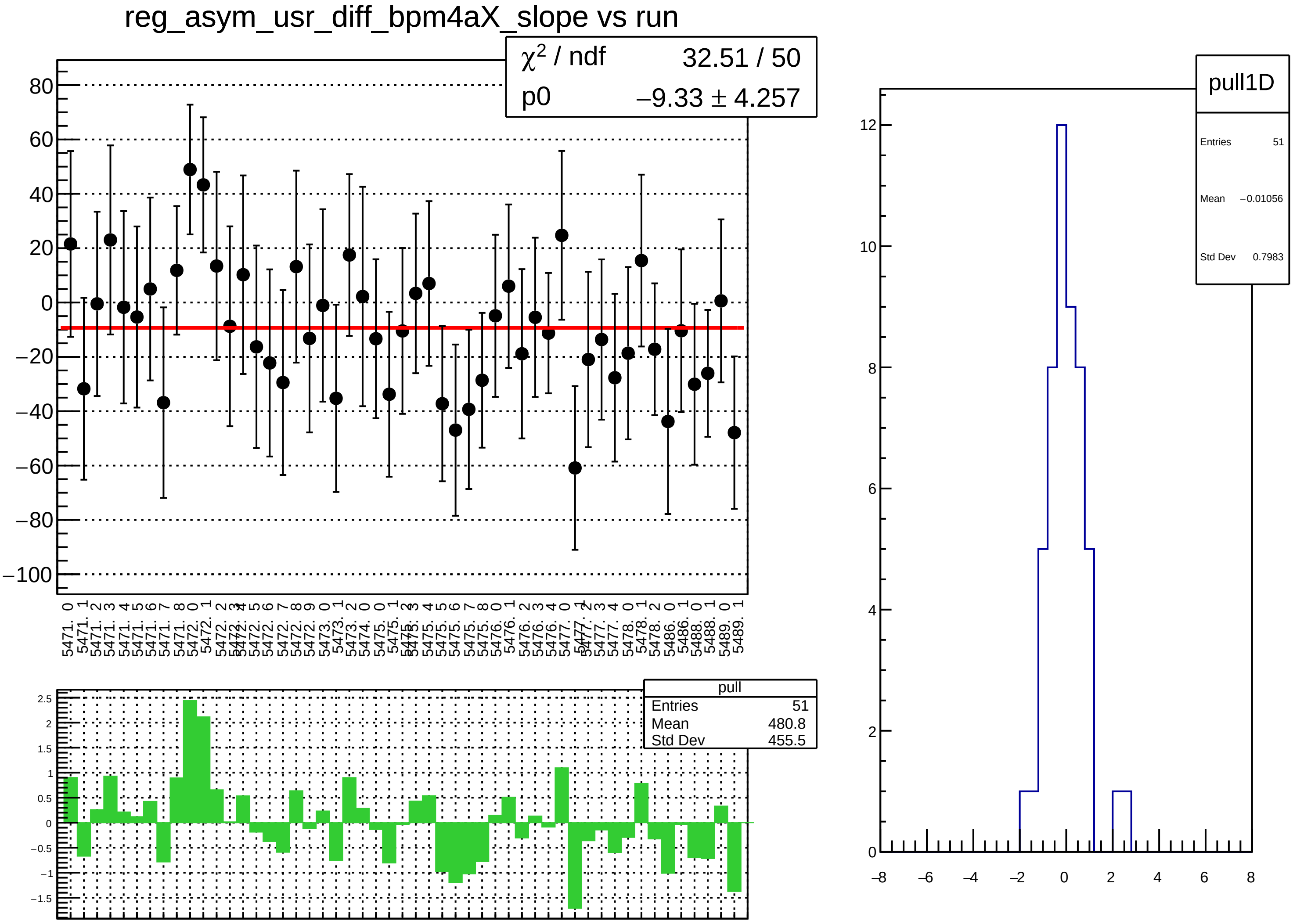
reg_asym_usl_diff_bpm4eX_slope vs run
χ^2 / ndf 19.19 / 50
p0 7.49 ± 3.965
pull
Entries 51
Mean −30.46
Std Dev 49.07
pull1D
Entries 51
Mean −0.02559
Std Dev 0.6128

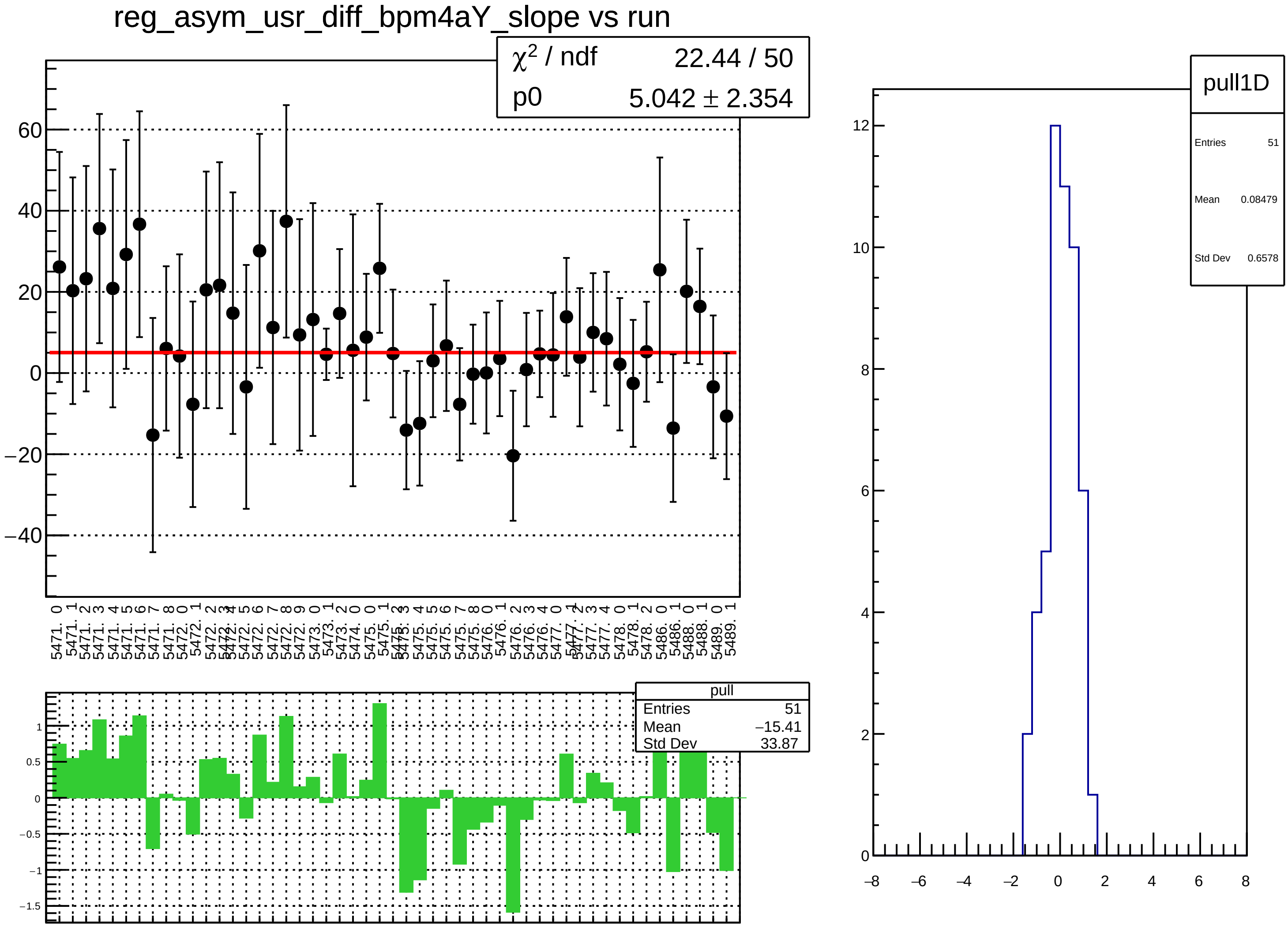


reg_asym_usl_diff_bpm4eY_slope vs run
χ2 / ndf 24.53 / 50
p0 11.8 ± 2.87
pull
Entries 51
Mean −13.17
Std Dev 34.91
pull1D
Entries 51
Mean −0.09671
Std Dev 0.6867

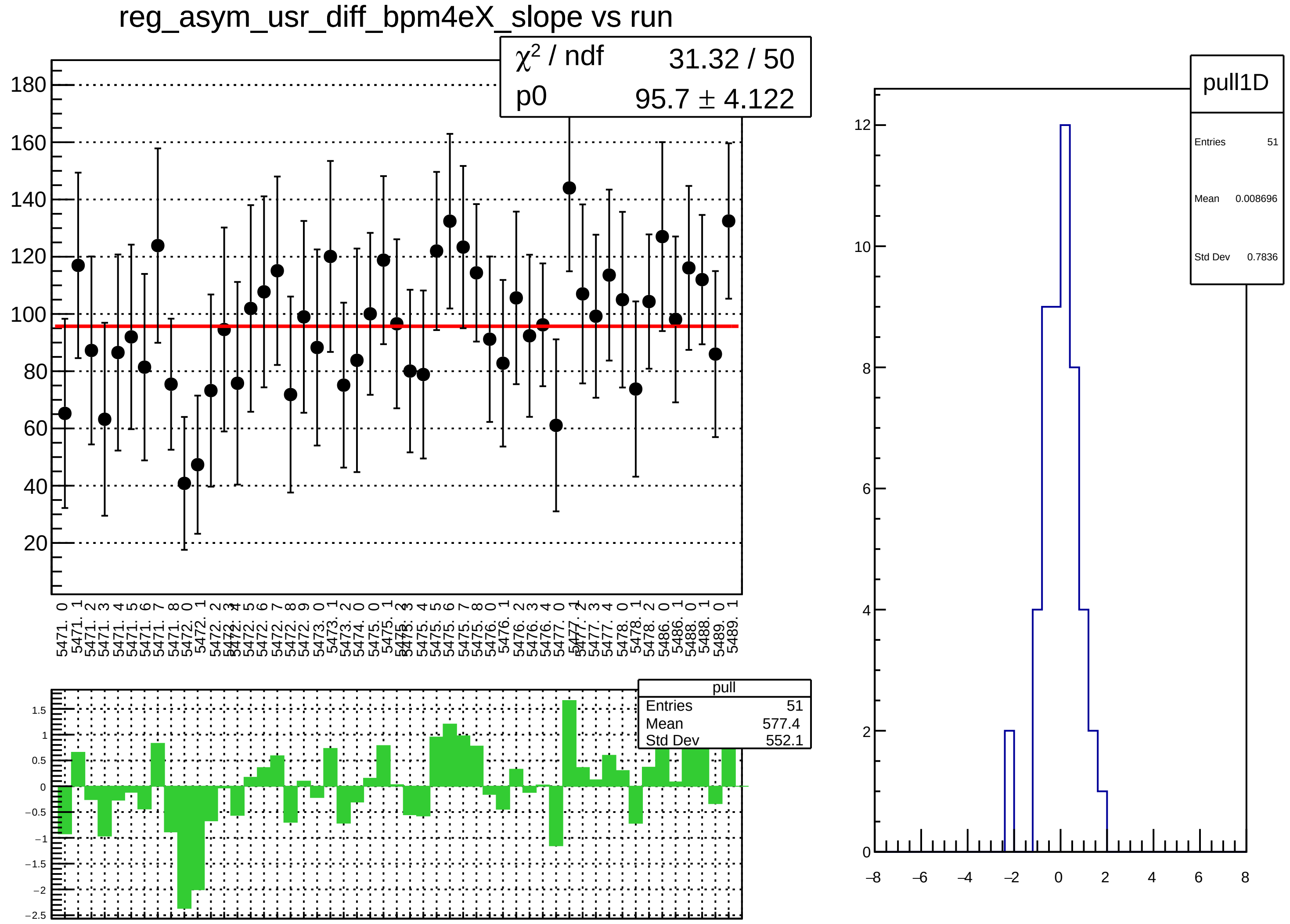


reg_asym_usl_diff_bpm12X_slope vs run
χ^2 / ndf 345.4 / 50
p0 −38.19 ± 0.1004
pull
Entries 51
Mean −385.1
Std Dev 416.7
pull1D
Entries 51
Mean −0.02401
Std Dev 2.602

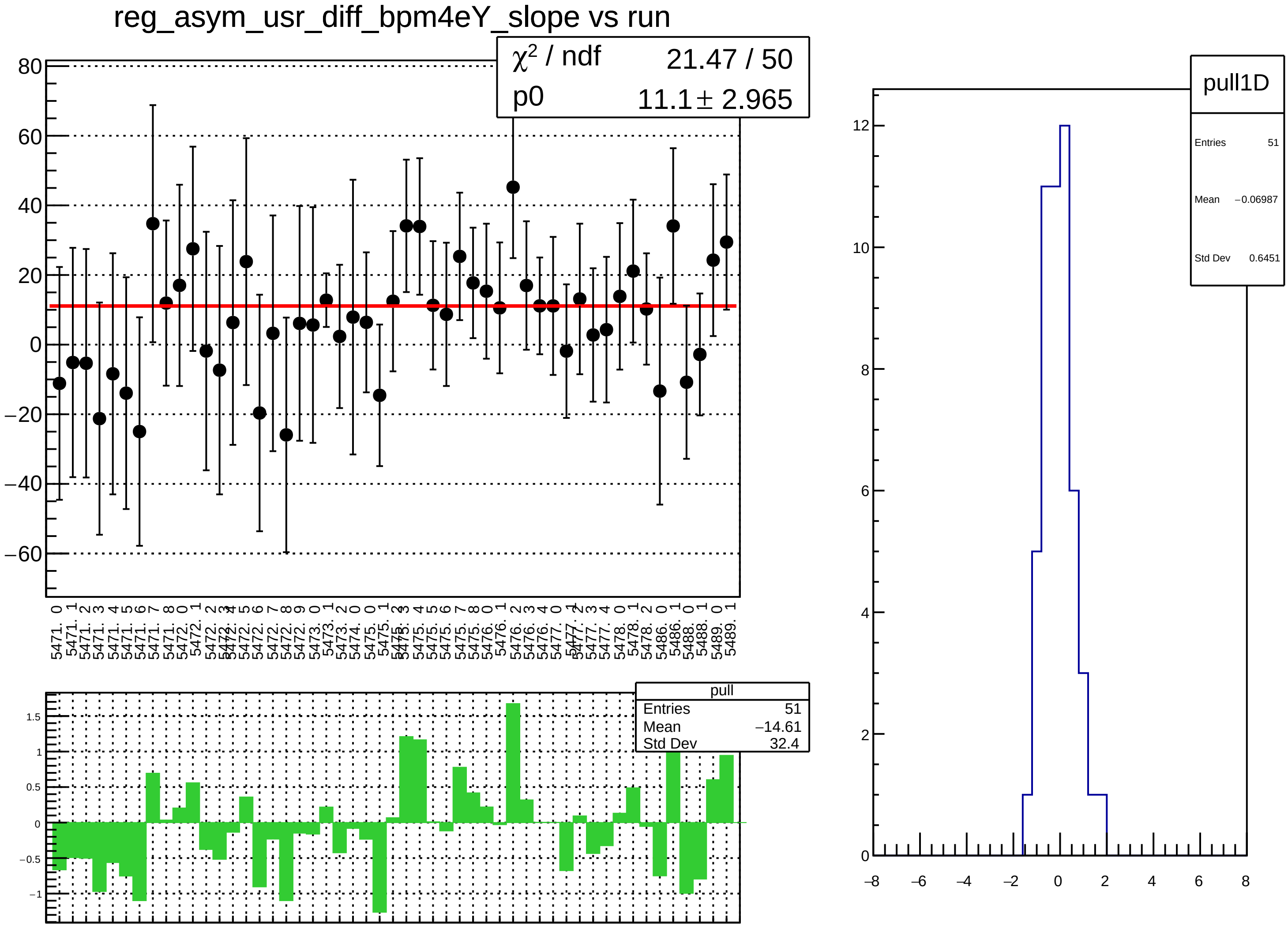

reg_asym_usr_diff_bpm4aX_slope vs run
χ2 / ndf 32.51 / 50
p0 −9.33 ± 4.257
pull
Entries 51
Mean 480.8
Std Dev 455.5
pull1D
Entries 51
Mean −0.01056
Std Dev 0.7983



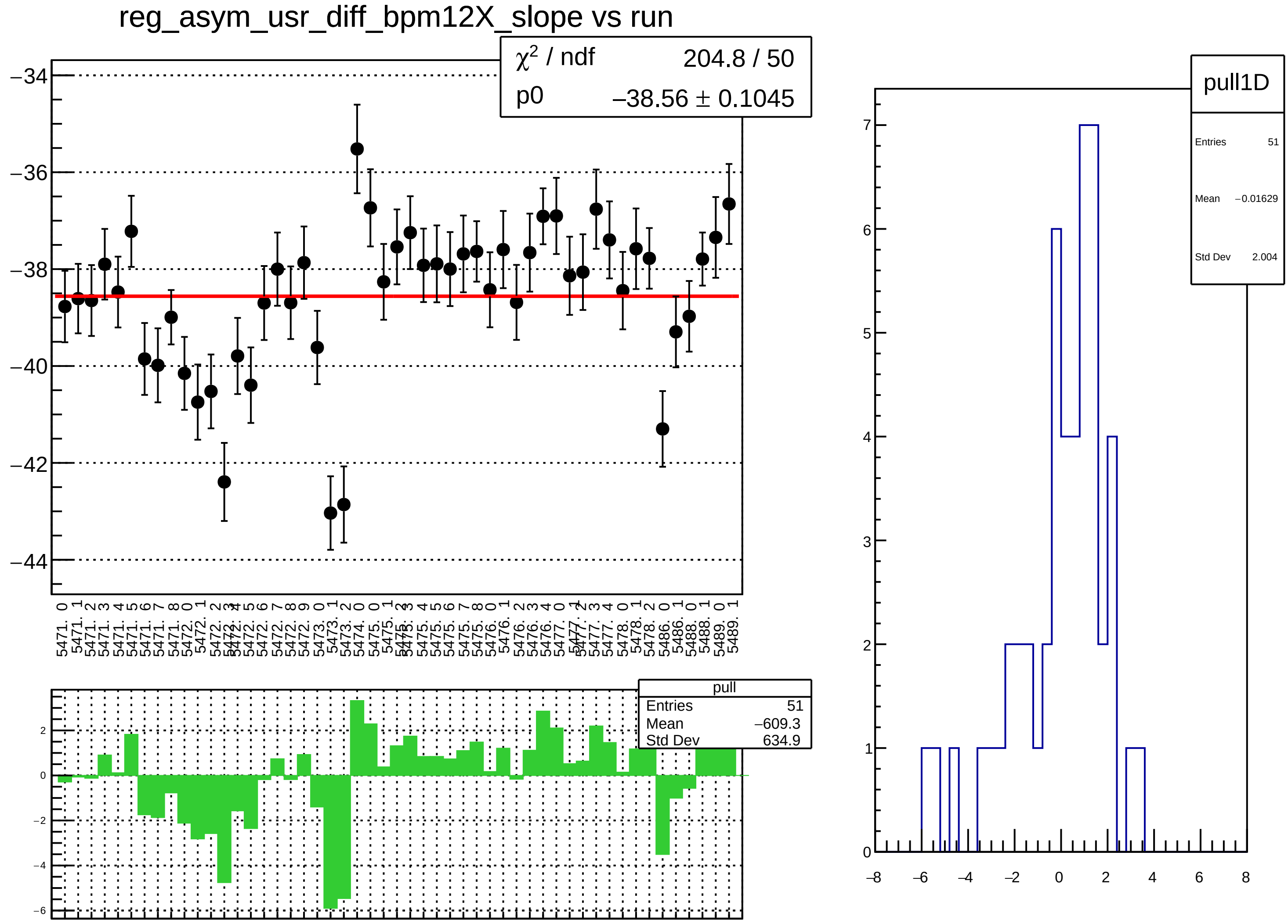
reg_asym_usr_diff_bpm4aY_slope vs run
χ2 / ndf 22.44 / 50
p0 5.042 ± 2.354
pull
Entries 51
Mean −15.41
Std Dev 33.87
pull1D
Entries 51
Mean 0.08479
Std Dev 0.6578



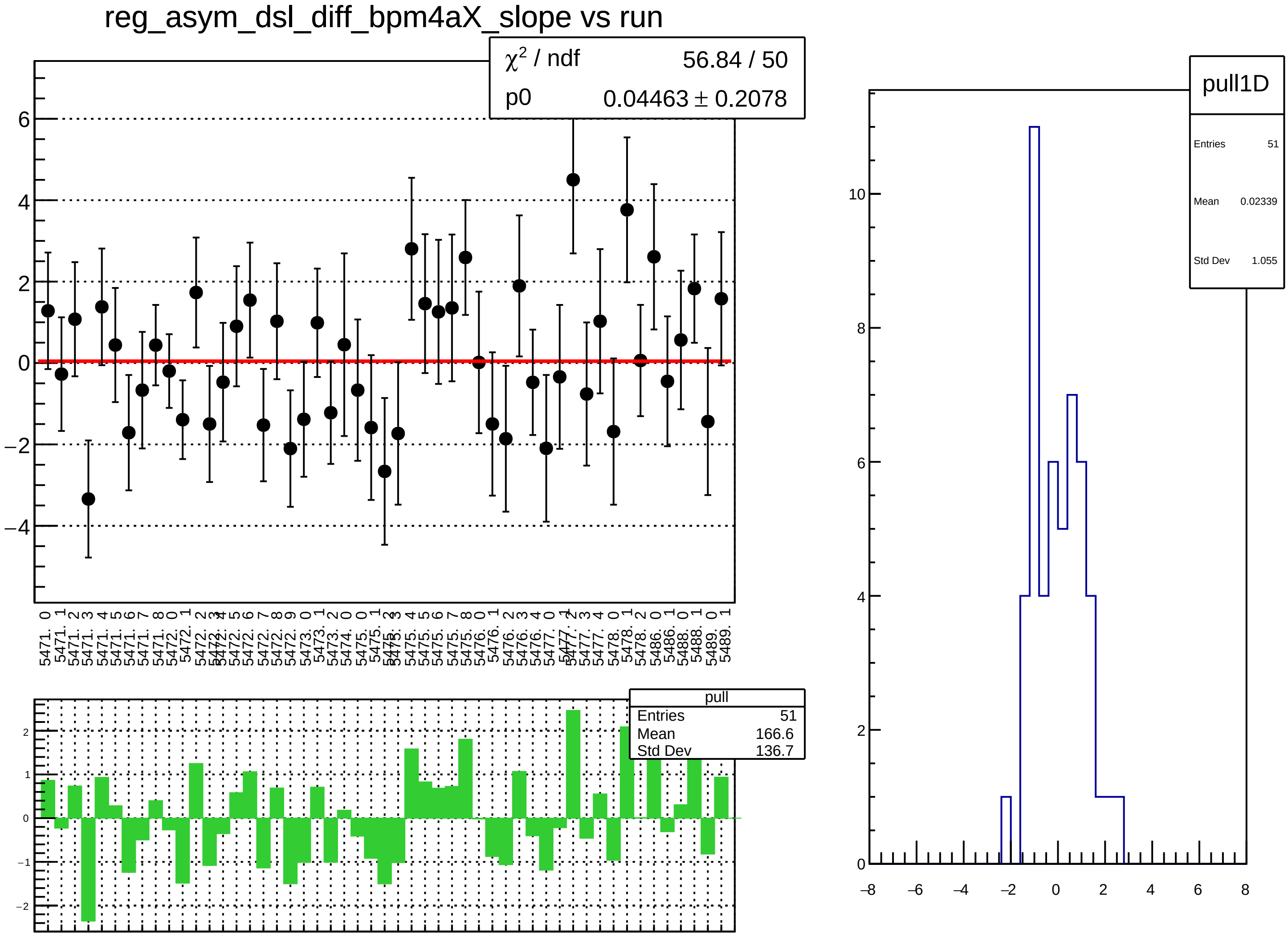
reg_asym_usr_diff_bpm4eX_slope vs run
χ^2 / ndf 31.32 / 50
p0 95.7 ± 4.122
pull
Entries 51
Mean 577.4
Std Dev 552.1
pull1D
Entries 51
Mean 0.008696
Std Dev 0.7836



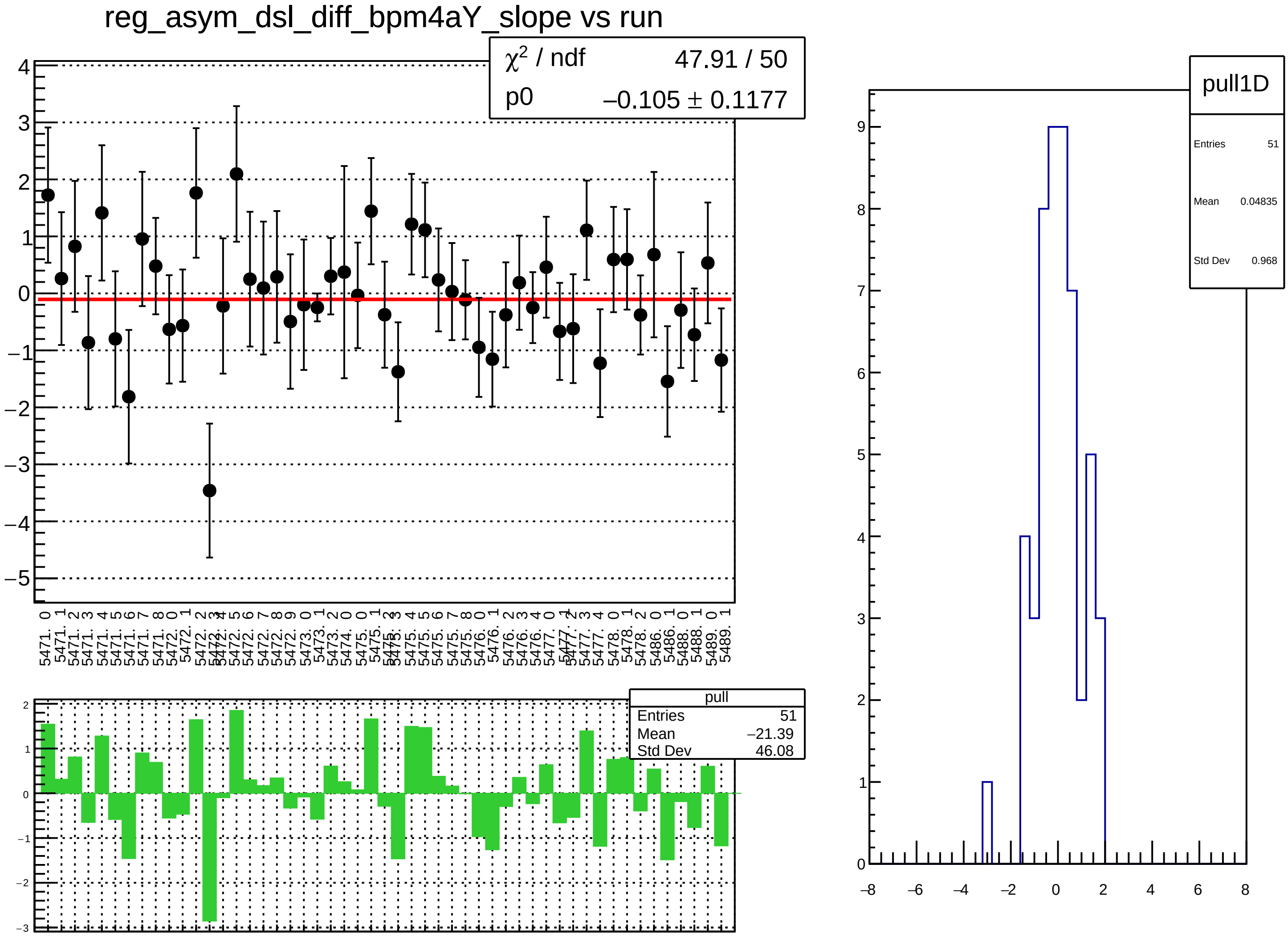
reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 21.47 / 50
p0 11.1 ± 2.965
pull
Entries 51
Mean −14.61
Std Dev 32.4
pull1D
Entries 51
Mean −0.06987
Std Dev 0.6451



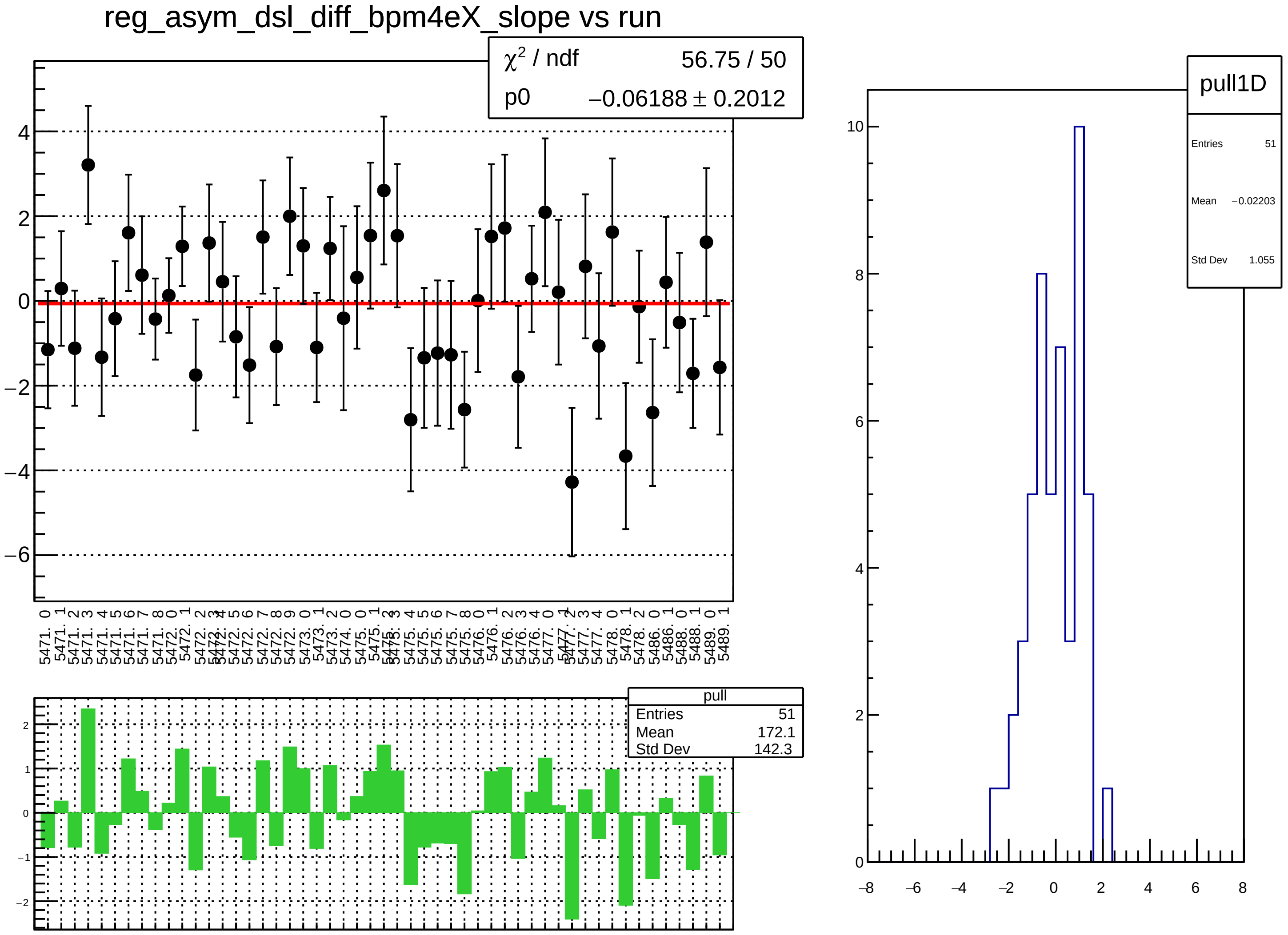
reg_asym_usr_diff_bpm12X_slope vs run
χ2 / ndf 204.8 / 50
p0 −38.56 ± 0.1045
pull
Entries 51
Mean −609.3
Std Dev 634.9
pull1D
Entries 51
Mean −0.01629
Std Dev 2.004



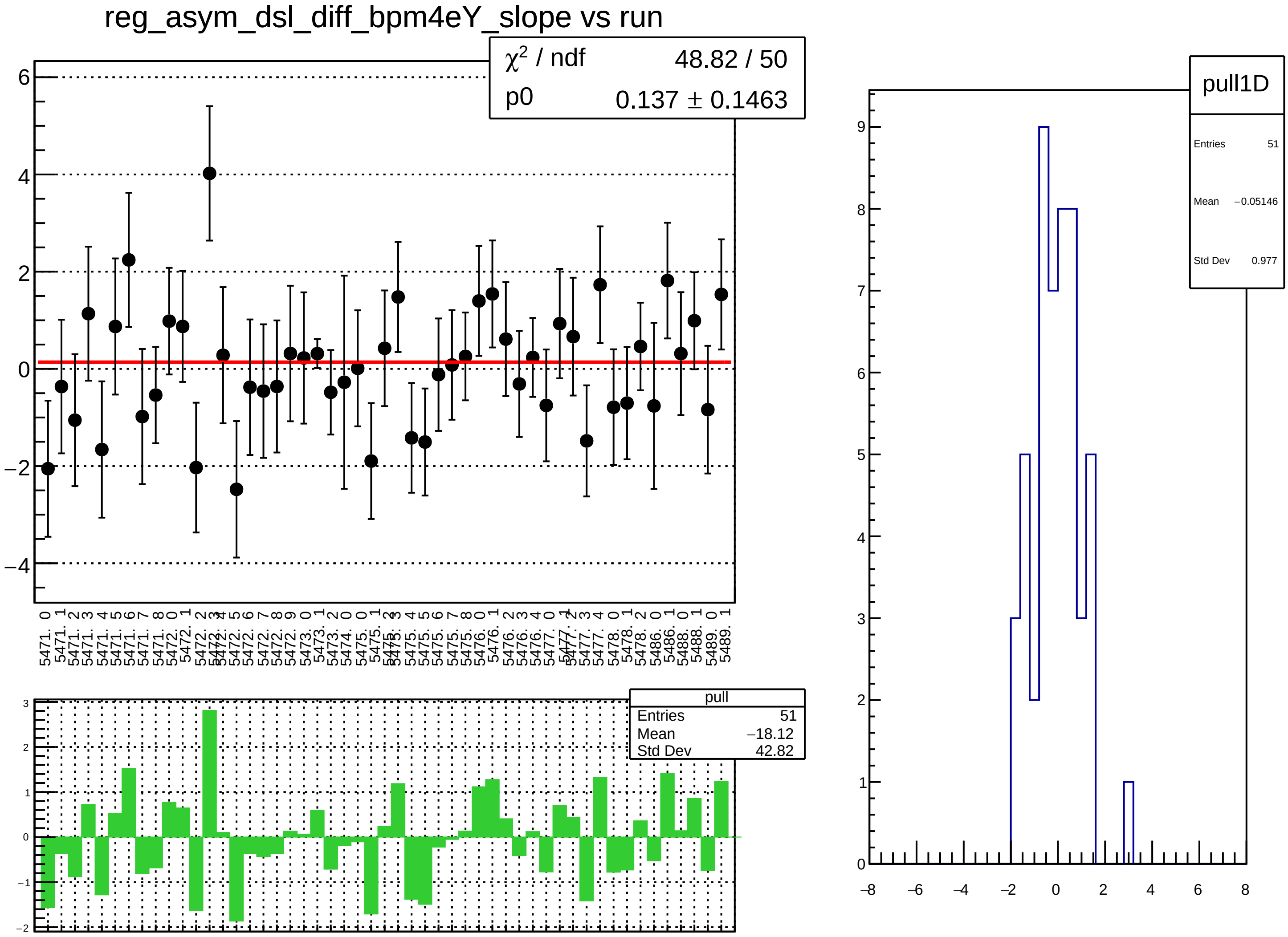
reg_asym_dsl_diff_bpm4aX_slope vs run
χ2 / ndf 56.84 / 50
p0 0.04463 ± 0.2078
pull
Entries 51
Mean 166.6
Std Dev 136.7
pull1D
Entries 51
Mean 0.02339
Std Dev 1.055



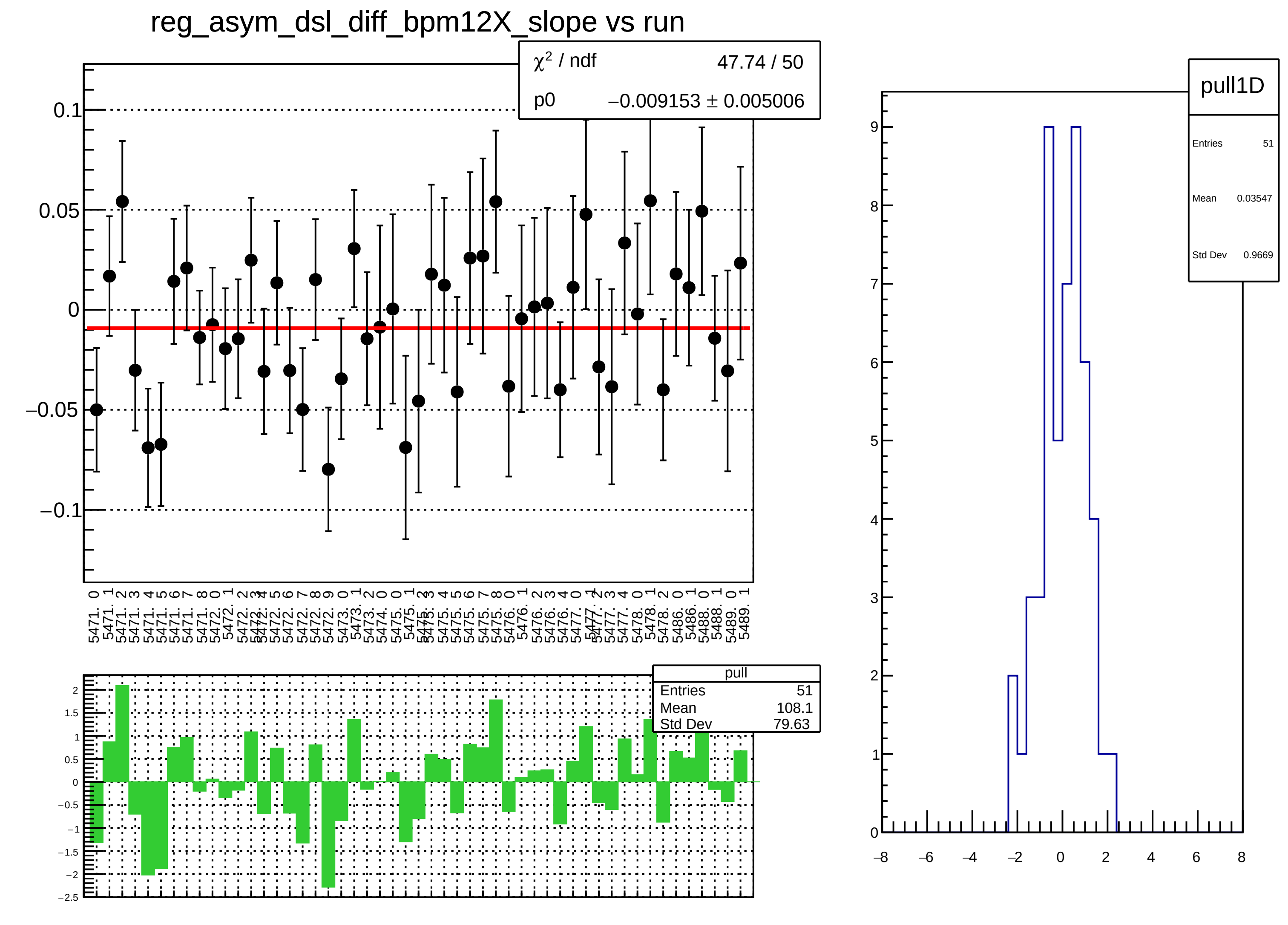
reg_asym_dsl_diff_bpm4aY_slope vs run
χ^2 / ndf 47.91 / 50
p0 −0.105 ± 0.1177
pull1D
Entries 51
Mean 0.04835
Std Dev 0.968
pull
Entries 51
Mean −21.39
Std Dev 46.08



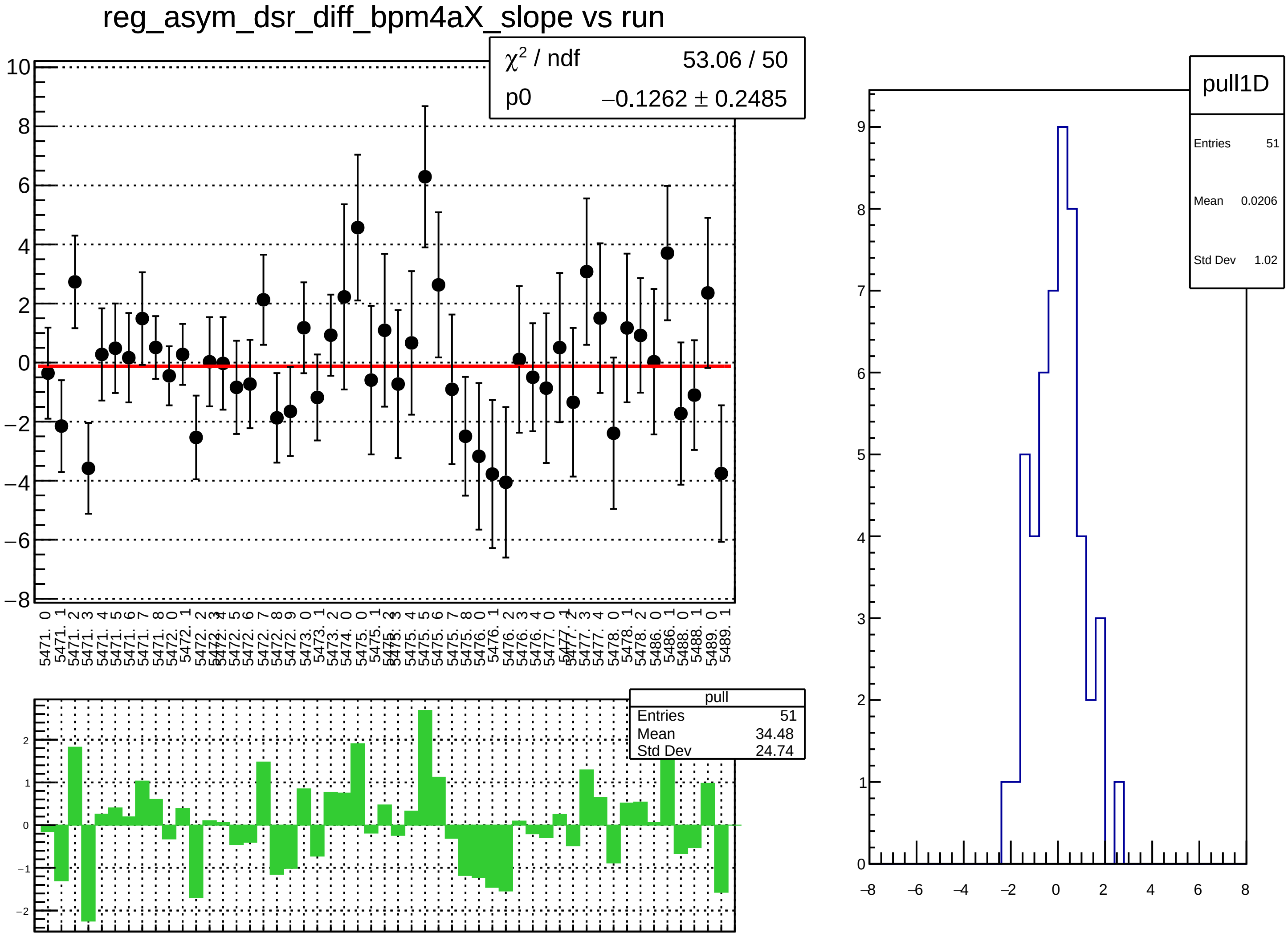
reg_asym_dsl_diff_bpm4eX_slope vs run
χ2 / ndf 56.75 / 50
p0 −0.06188 ± 0.2012
pull
Entries 51
Mean 172.1
Std Dev 142.3
pull1D
Entries 51
Mean −0.02203
Std Dev 1.055



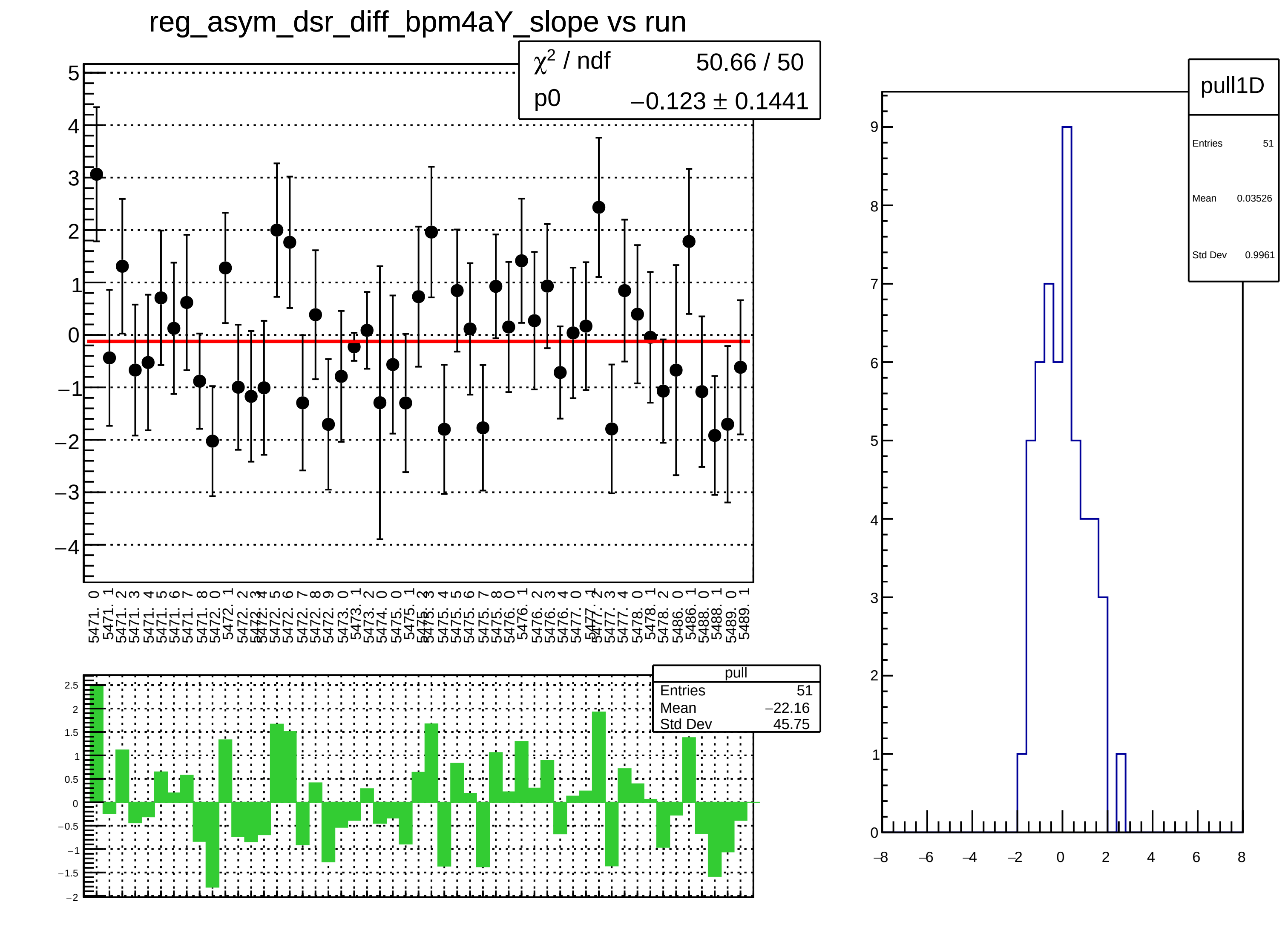
reg_asym_dsl_diff_bpm4eY_slope vs run
χ2 / ndf 48.82 / 50
p0 0.137 ± 0.1463
pull
Entries 51
Mean −18.12
Std Dev 42.82
pull1D
Entries 51
Mean −0.05146
Std Dev 0.977



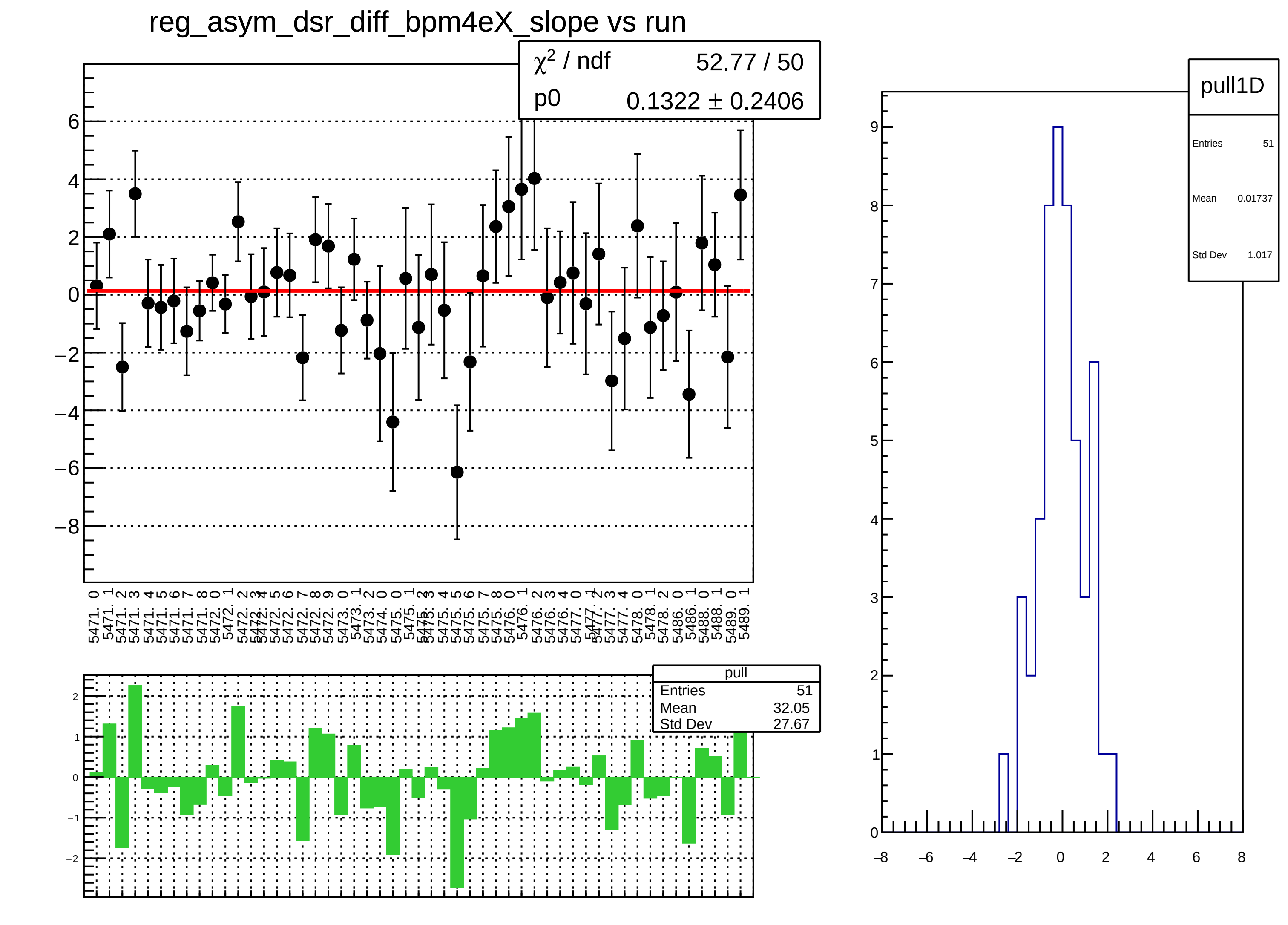
reg_asym_dsl_diff_bpm12X_slope vs run
χ2 / ndf 47.74 / 50
p0 −0.009153 ± 0.005006
pull
Entries 51
Mean 108.1
Std Dev 79.63
pull1D
Entries 51
Mean 0.03547
Std Dev 0.9669



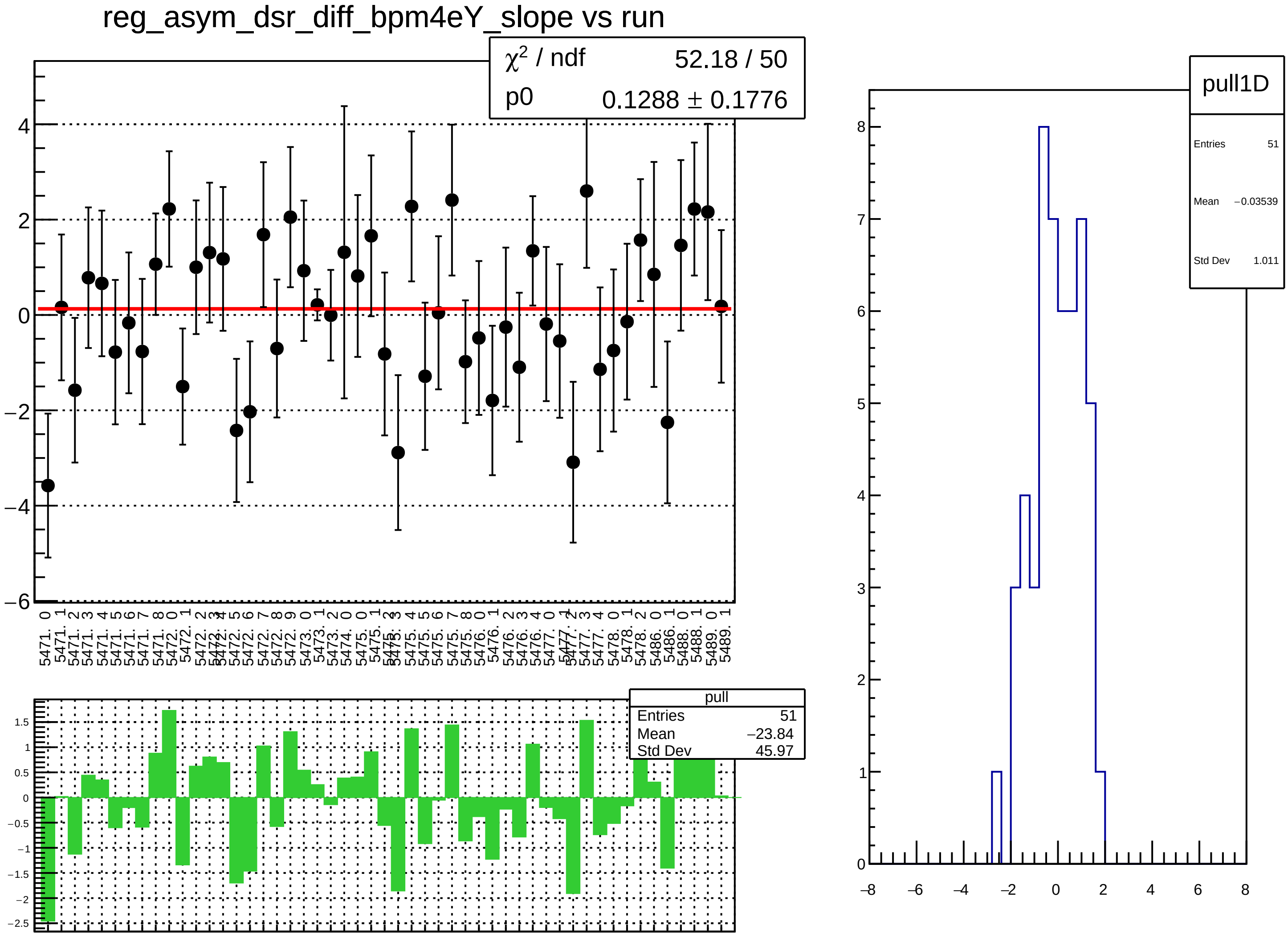
reg_asym_dsr_diff_bpm4aX_slope vs run
χ2 / ndf 53.06 / 50
p0 −0.1262 ± 0.2485
pull
Entries 51
Mean 34.48
Std Dev 24.74
pull1D
Entries 51
Mean 0.0206
Std Dev 1.02



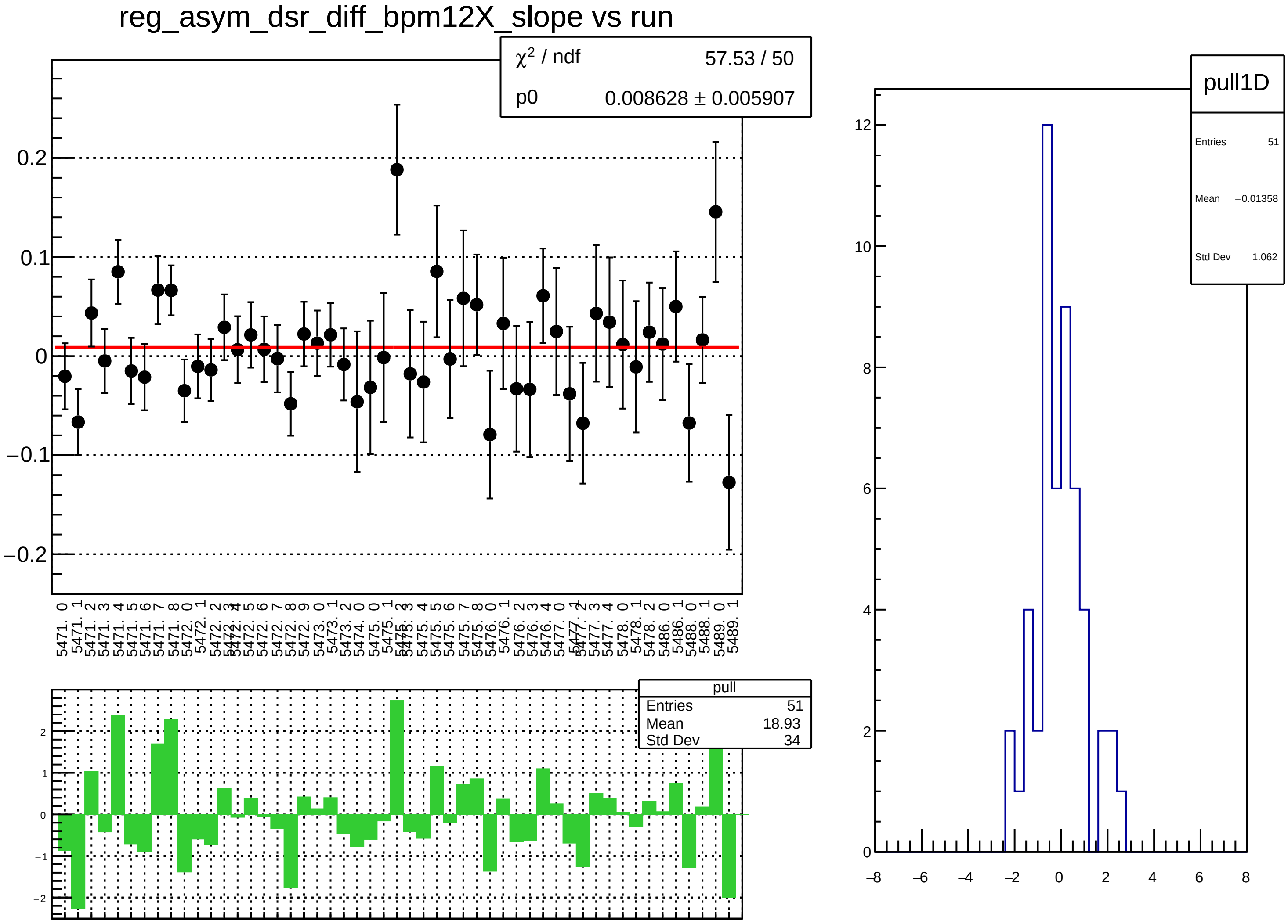
reg_asym_dsr_diff_bpm4aY_slope vs run
χ2 / ndf 50.66 / 50
p0 −0.123 ± 0.1441
pull
Entries 51
Mean −22.16
Std Dev 45.75
pull1D
Entries 51
Mean 0.03526
Std Dev 0.9961



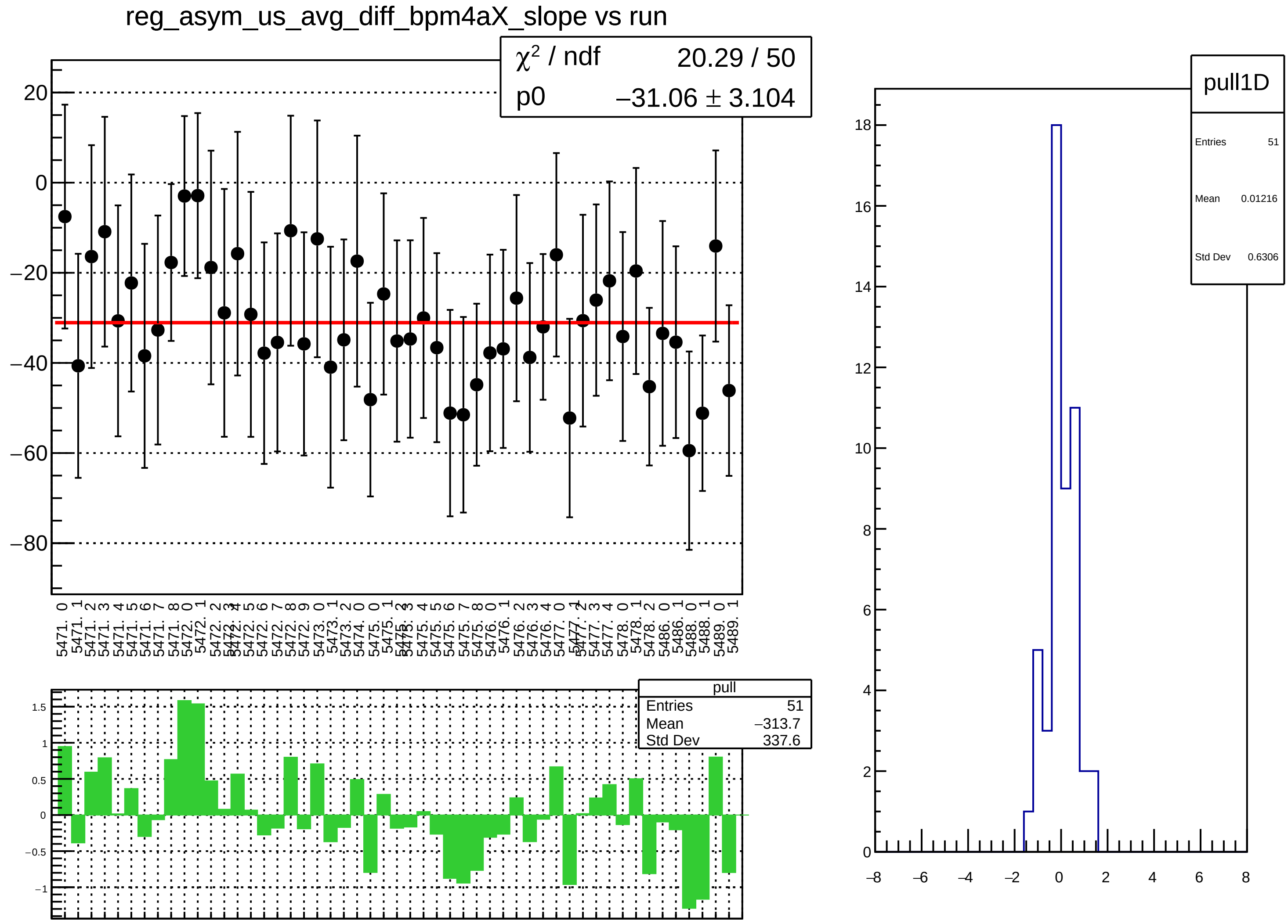
reg_asym_dsr_diff_bpm4eX_slope vs run
χ^2 / ndf 52.77 / 50
p0 0.1322 ± 0.2406
pull
Entries 51
Mean 32.05
Std Dev 27.67
pull1D
Entries 51
Mean −0.01737
Std Dev 1.017



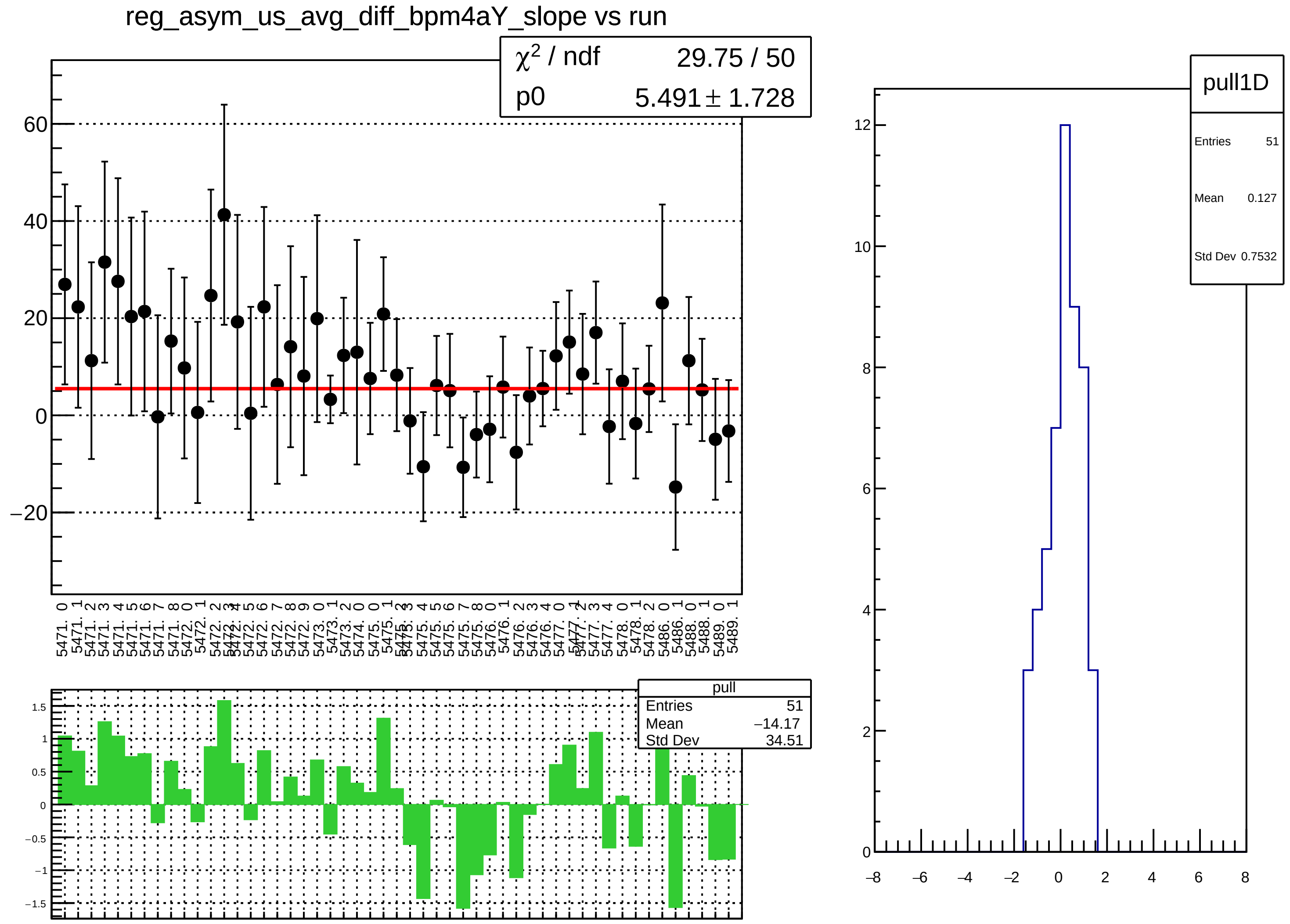
reg_asym_dsr_diff_bpm4eY_slope vs run
χ^2 / ndf 52.18 / 50
p0 0.1288 ± 0.1776
pull
Entries 51
Mean −23.84
Std Dev 45.97
pull1D
Entries 51
Mean −0.03539
Std Dev 1.011



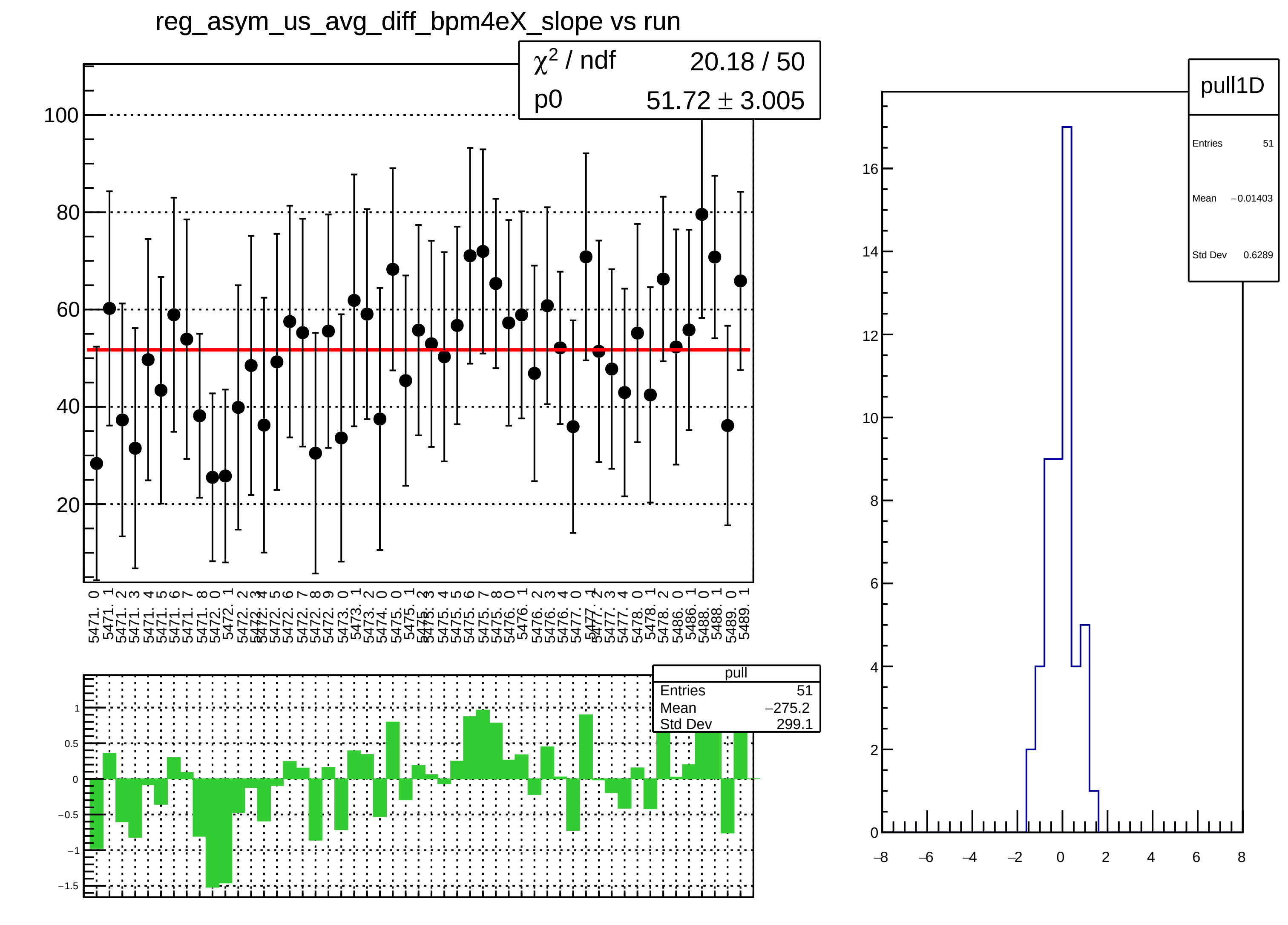
reg_asym_dsr_diff_bpm12X_slope vs run
χ^2 / ndf 57.53 / 50
p0 0.008628 ± 0.005907
0.2
0.1
0
−0.1
−0.2
pull
Entries 51
Mean 18.93
Std Dev 34
pull1D
Entries 51
Mean −0.01358
Std Dev 1.062



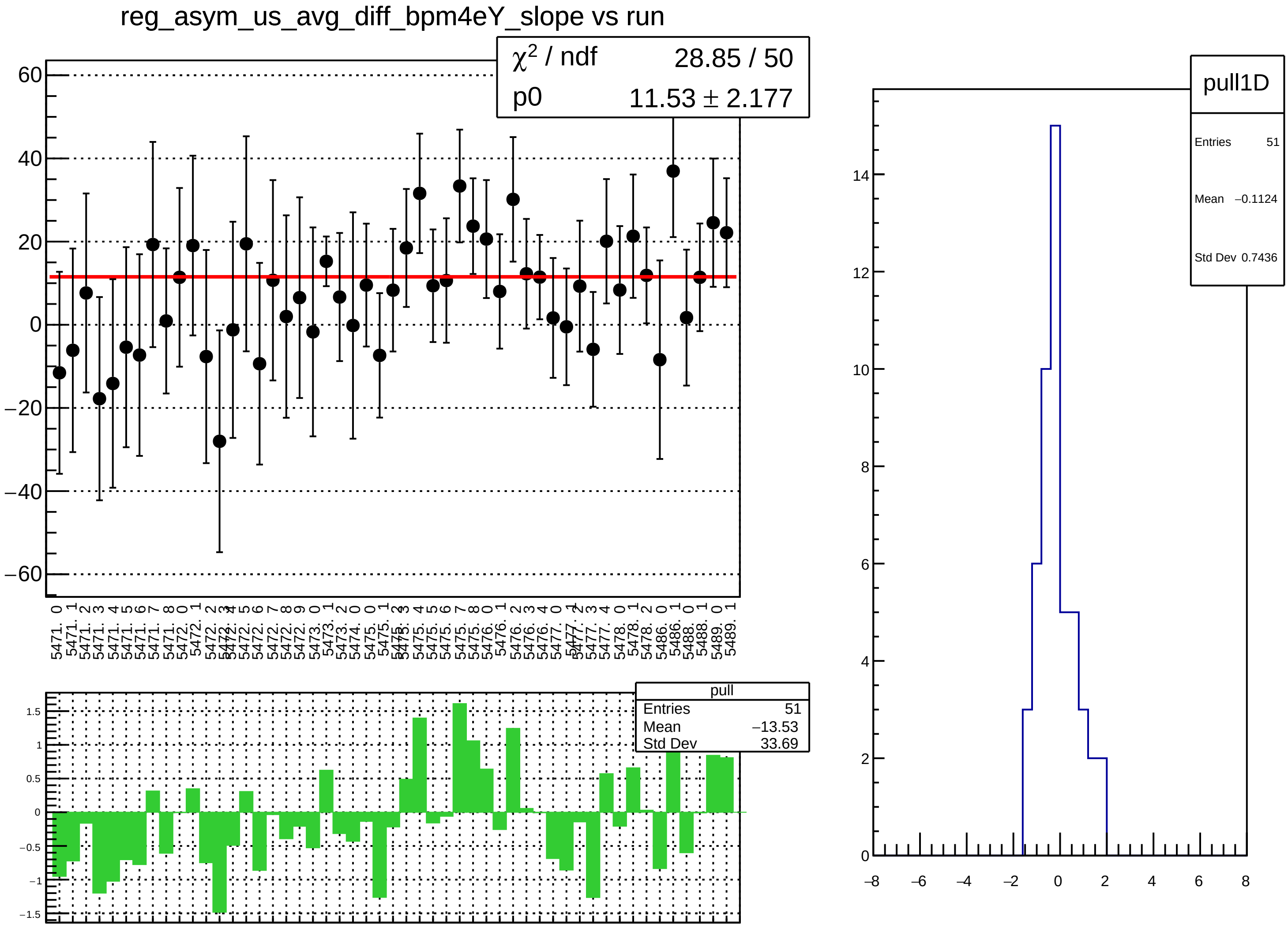
reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.29 / 50
p0 −31.06 ± 3.104
pull
Entries 51
Mean −313.7
Std Dev 337.6
pull1D
Entries 51
Mean 0.01216
Std Dev 0.6306



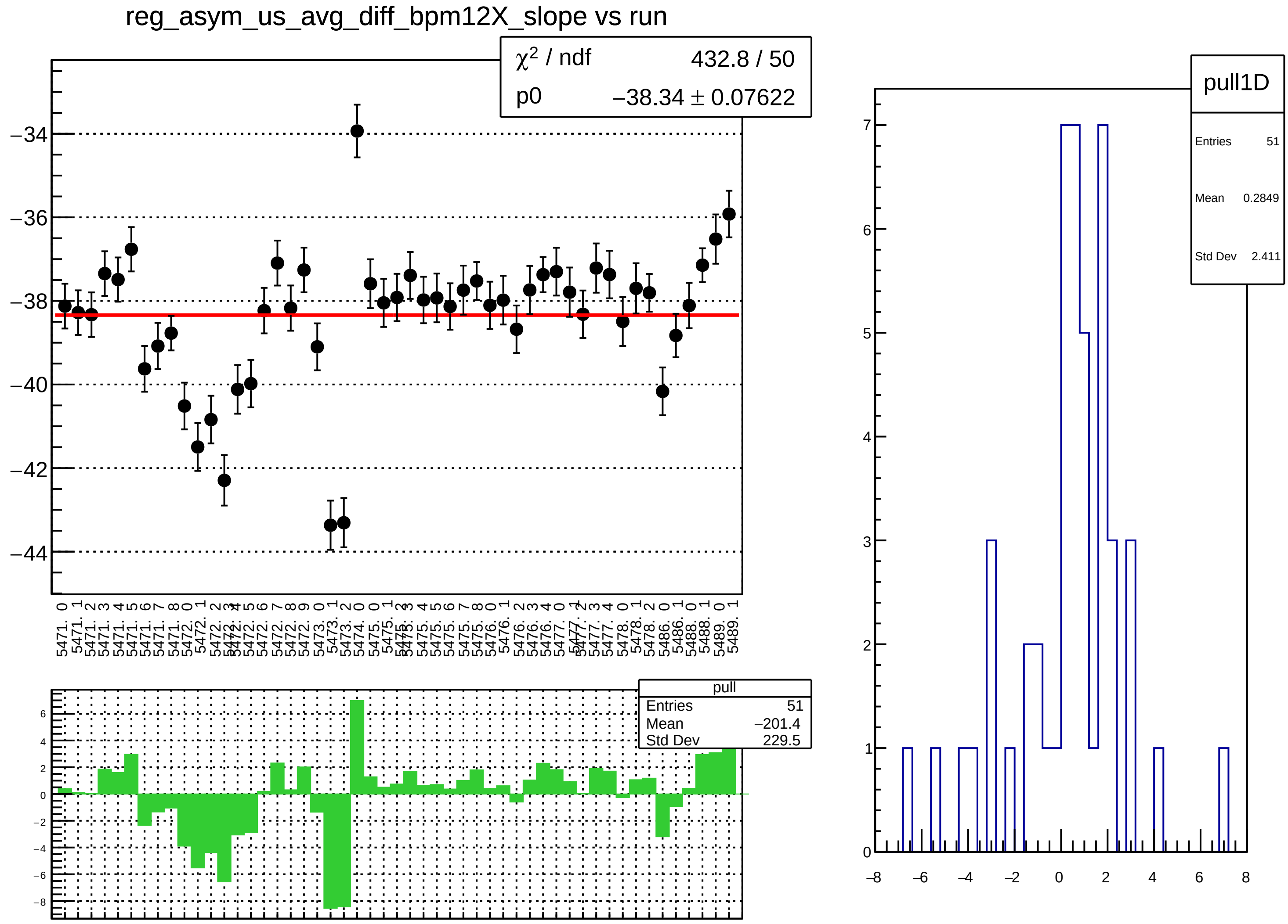
reg_asym_us_avg_diff_bpm4aY_slope vs run
χ2 / ndf 29.75 / 50
p0 5.491 ± 1.728
60
40
20
0
−20
pull
Entries 51
Mean −14.17
Std Dev 34.51
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean 0.127
Std Dev 0.7532
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



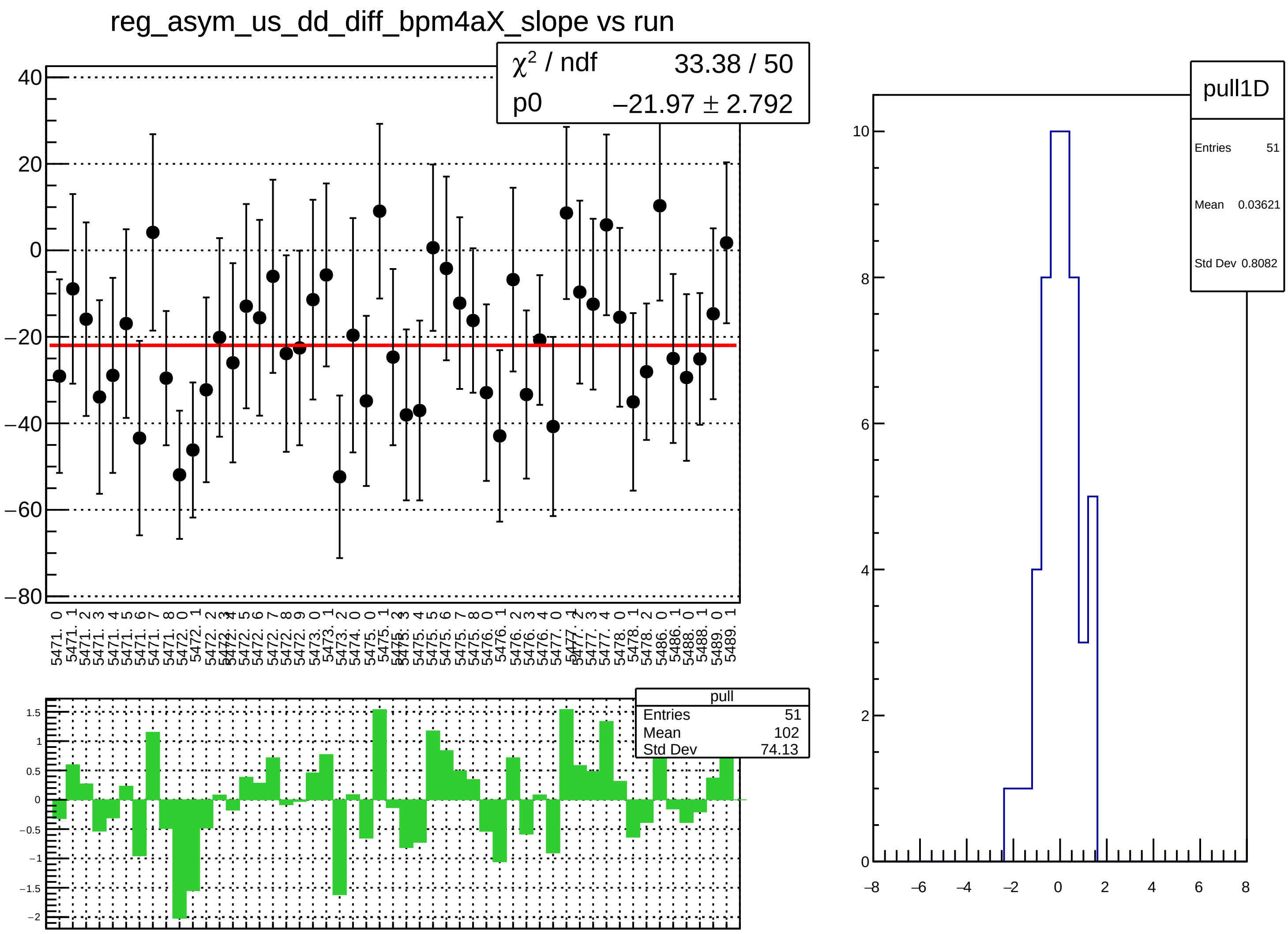
reg_asym_us_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 20.18 / 50
p0 51.72 ± 3.005
pull
Entries 51
Mean −275.2
Std Dev 299.1
pull1D
Entries 51
Mean −0.01403
Std Dev 0.6289



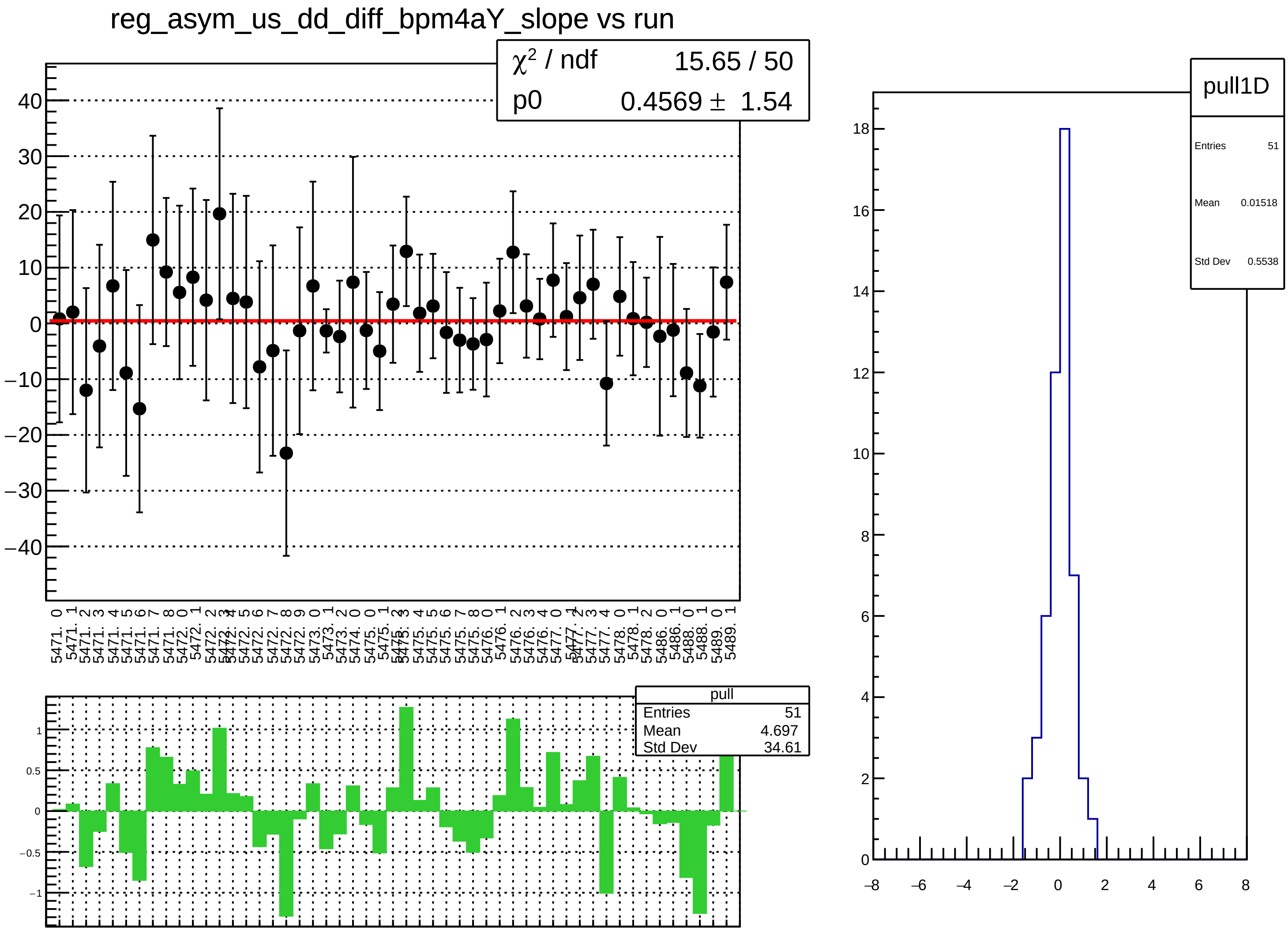
reg_asym_us_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 28.85 / 50
p0 11.53 ± 2.177
pull
Entries 51
Mean −13.53
Std Dev 33.69
pull1D
Entries 51
Mean −0.1124
Std Dev 0.7436



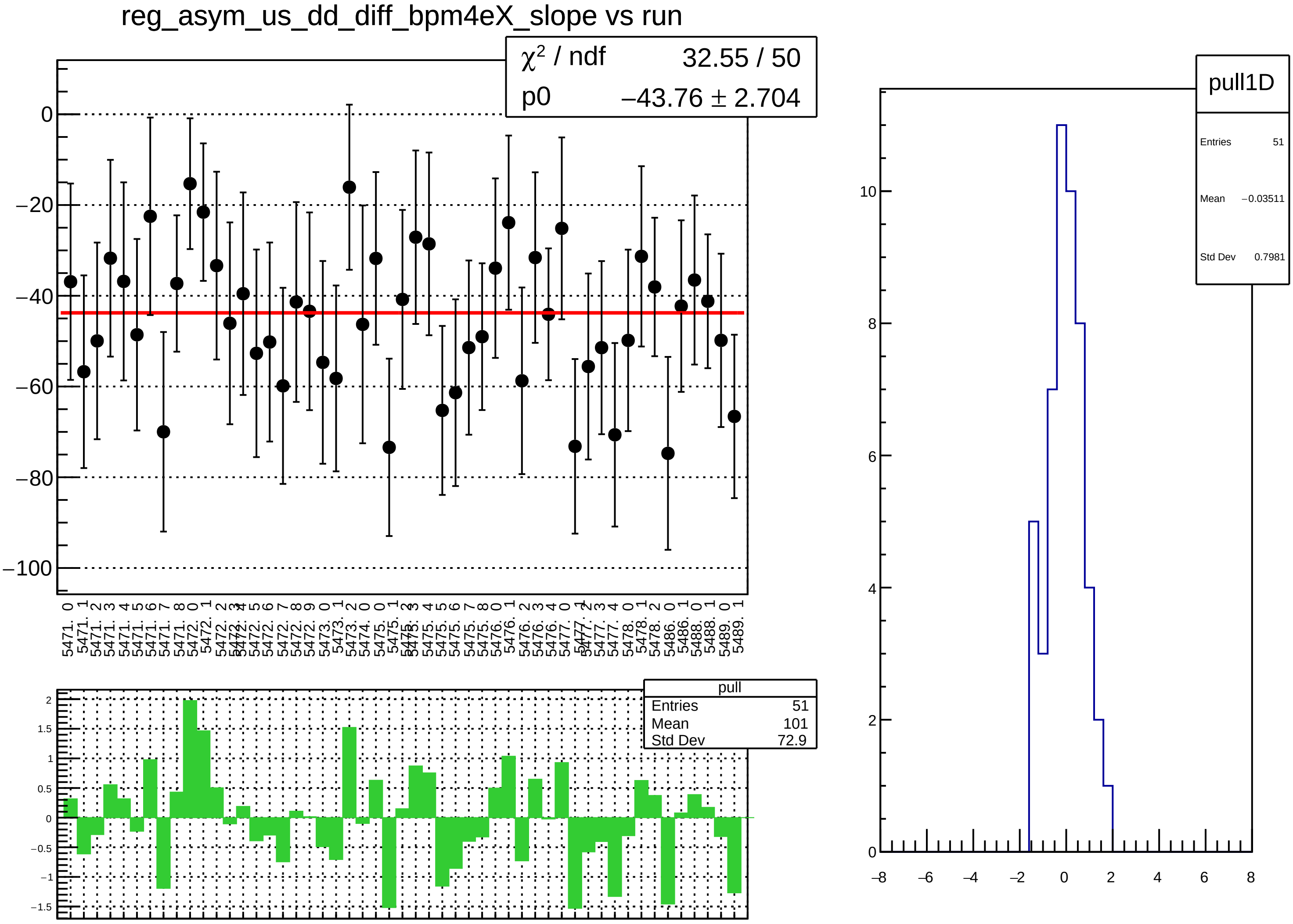
reg_asym_us_avg_diff_bpm12X_slope vs run
χ^2 / ndf 432.8 / 50
p0 −38.34 ± 0.07622
pull
Entries 51
Mean −201.4
Std Dev 229.5
pull1D
Entries 51
Mean 0.2849
Std Dev 2.411



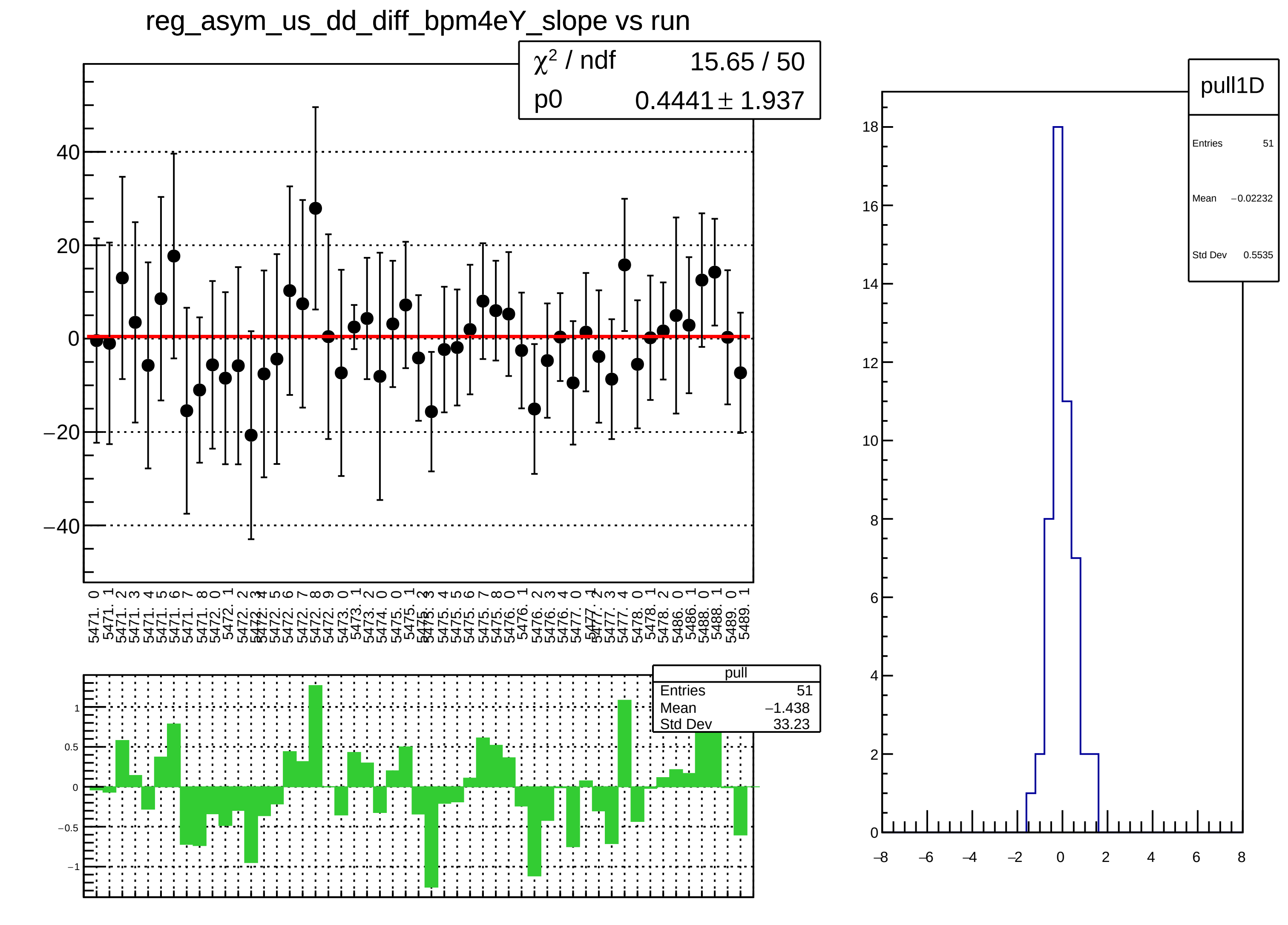
reg_asym_us_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 33.38 / 50
p0 −21.97 ± 2.792
pull
Entries 51
Mean 102
Std Dev 74.13
pull1D
Entries 51
Mean 0.03621
Std Dev 0.8082



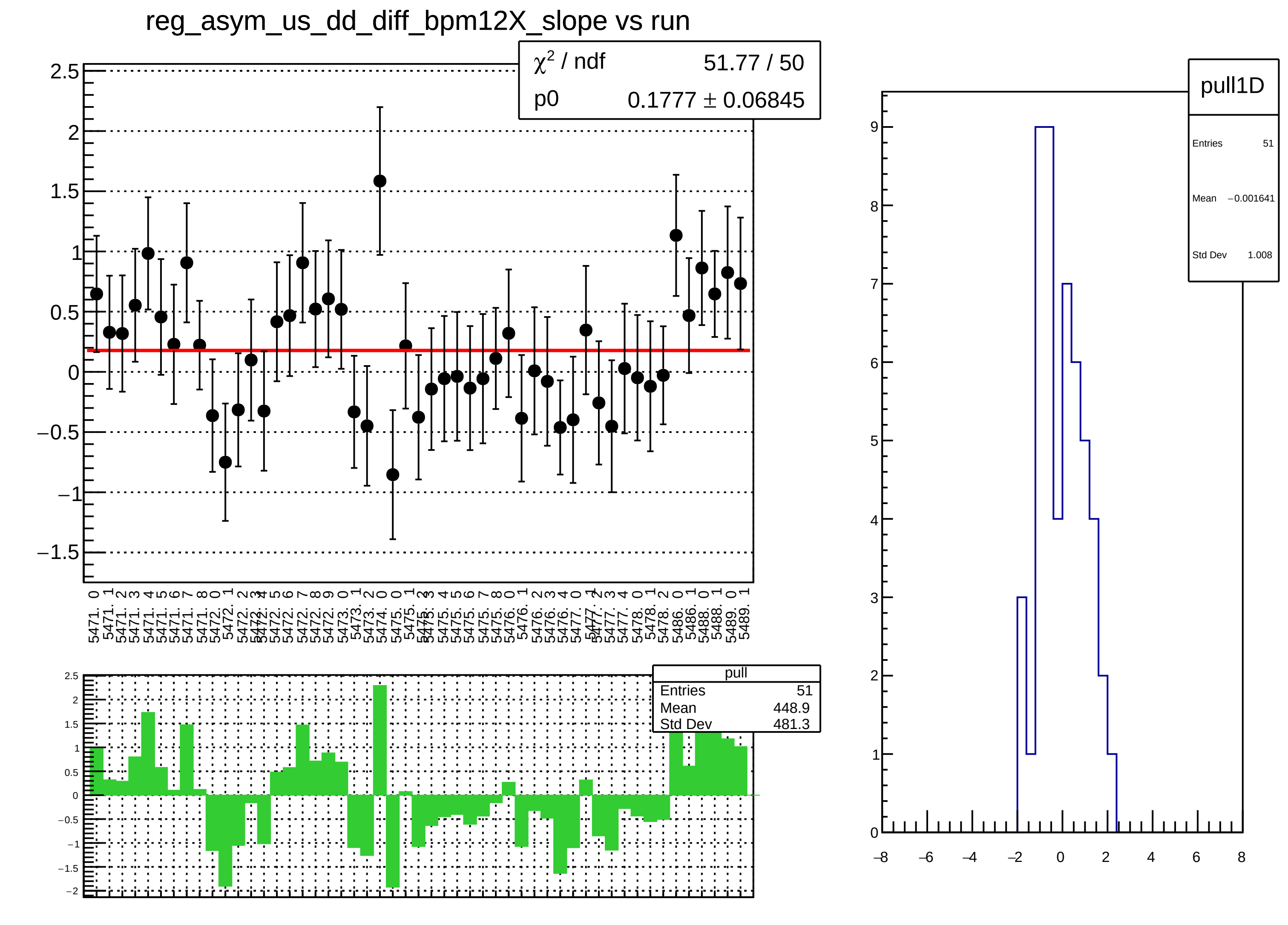
reg_asym_us_dd_diff_bpm4aY_slope vs run
χ2 / ndf 15.65 / 50
p0 0.4569 ± 1.54
pull
Entries 51
Mean 4.697
Std Dev 34.61
pull1D
Entries 51
Mean 0.01518
Std Dev 0.5538

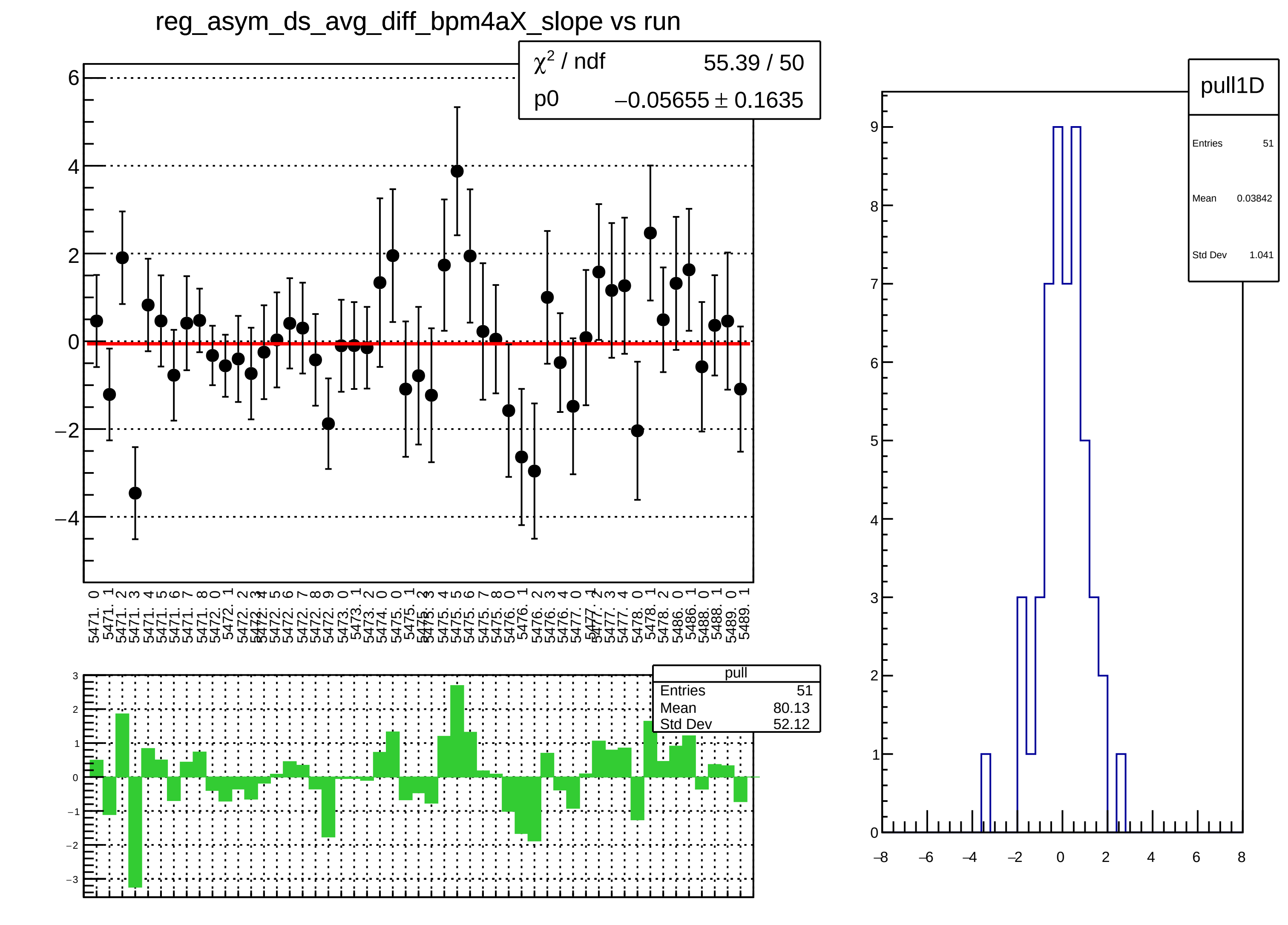


reg_asym_us_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 32.55 / 50
p0 −43.76 ± 2.704
pull
Entries 51
Mean 101
Std Dev 72.9
pull1D
Entries 51
Mean −0.03511
Std Dev 0.7981

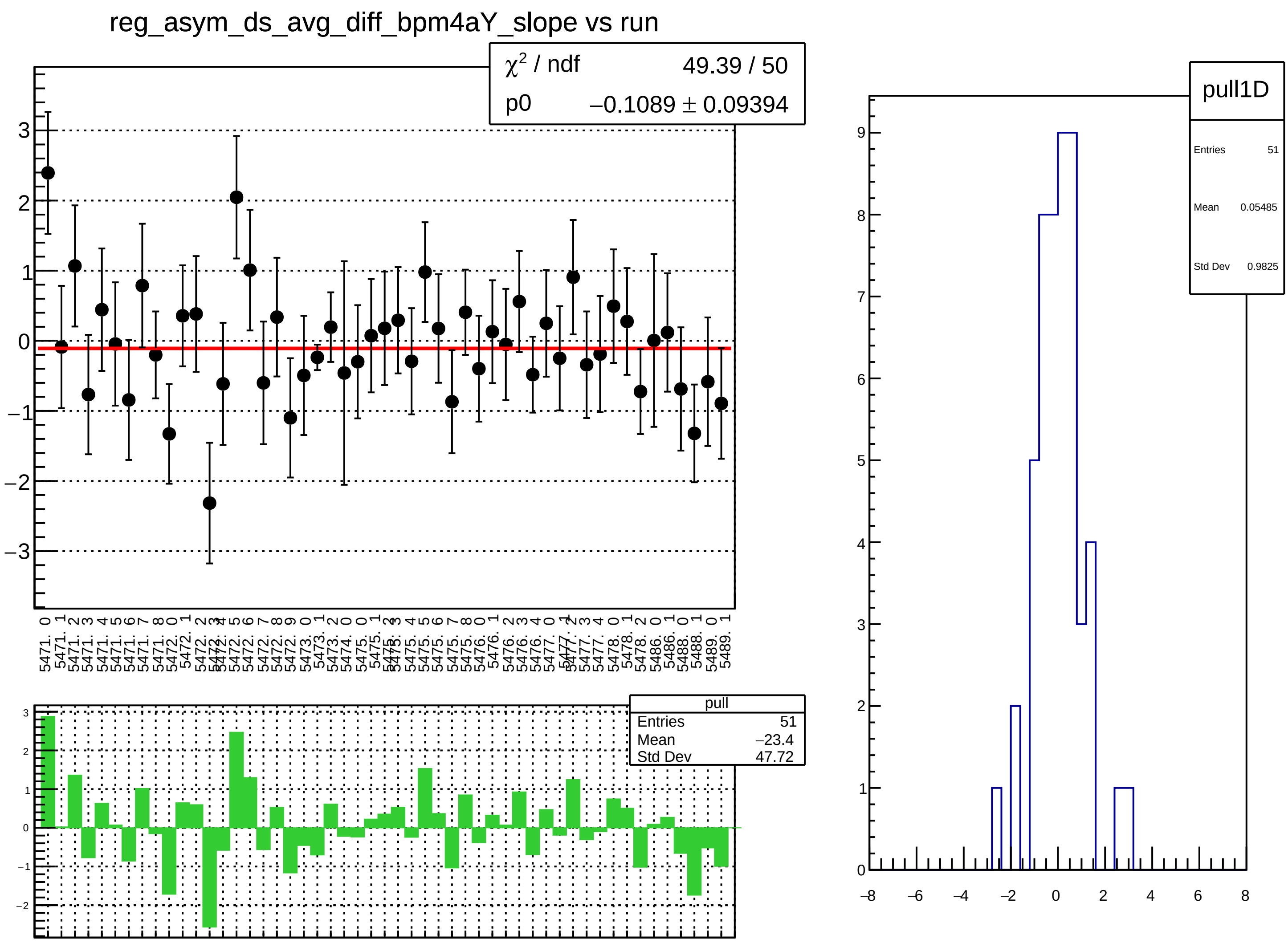


reg_asym_us_dd_diff_bpm4eY_slope vs run
χ2 / ndf 15.65 / 50
p0 0.4441 ± 1.937
pull
Entries 51
Mean −1.438
Std Dev 33.23
pull1D
Entries 51
Mean −0.02232
Std Dev 0.5535

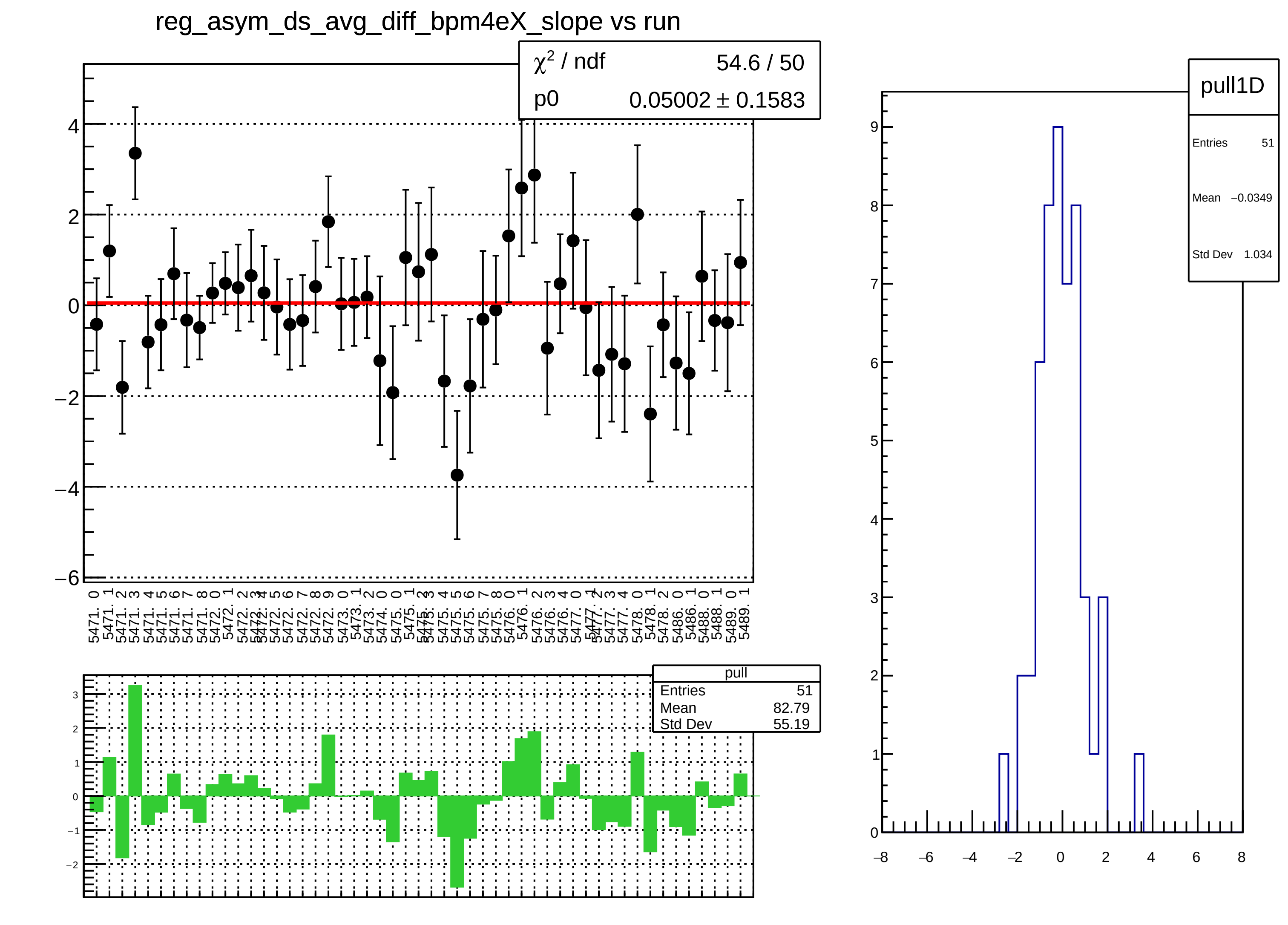

reg_asym_us_dd_diff_bpm12X_slope vs run
χ2 / ndf 51.77 / 50
p0 0.1777 ± 0.06845
pull
Entries 51
Mean 448.9
Std Dev 481.3
pull1D
Entries 51
Mean −0.001641
Std Dev 1.008



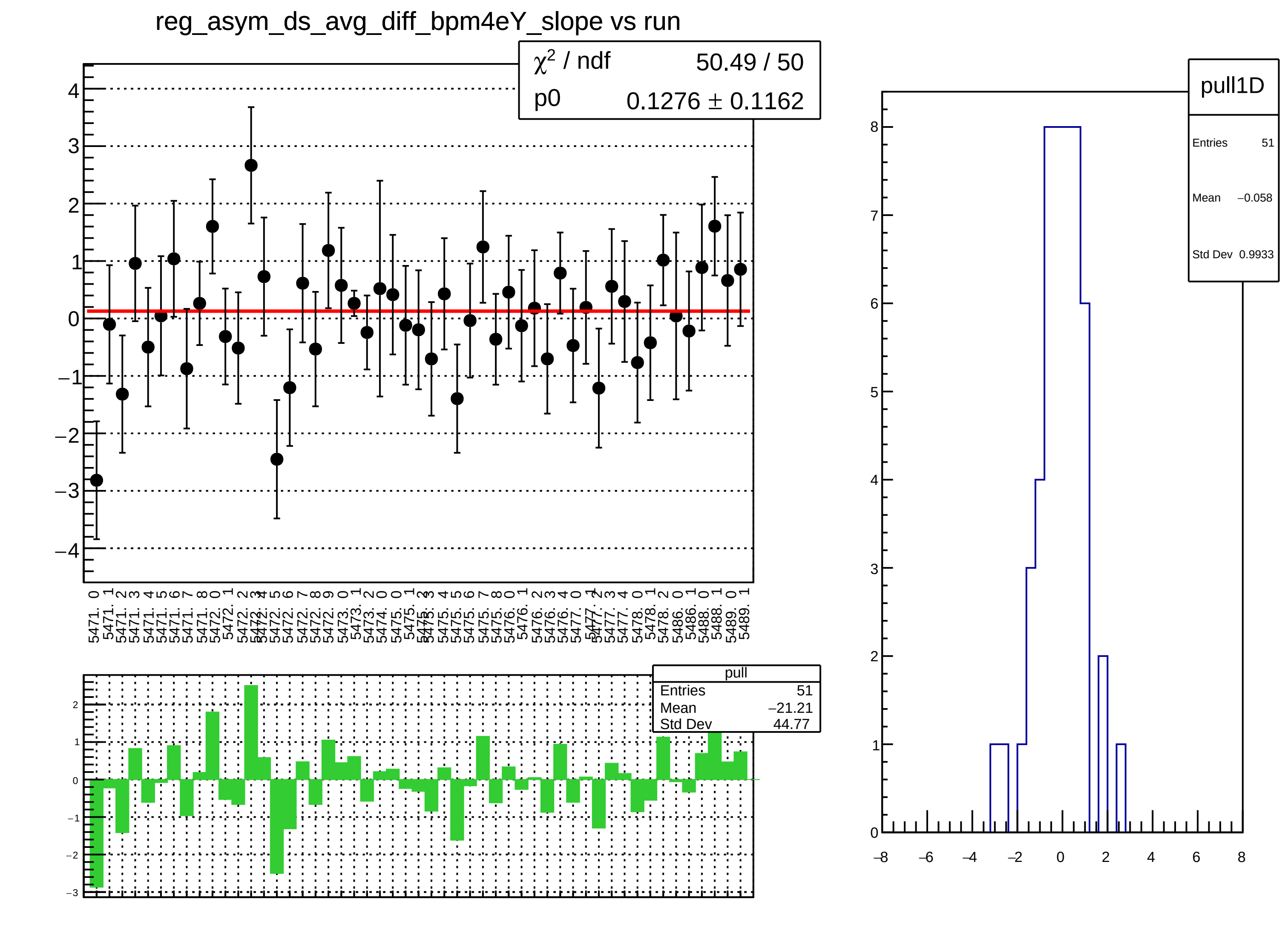
reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 55.39 / 50
p0 −0.05655 ± 0.1635
pull
Entries 51
Mean 80.13
Std Dev 52.12
pull1D
Entries 51
Mean 0.03842
Std Dev 1.041



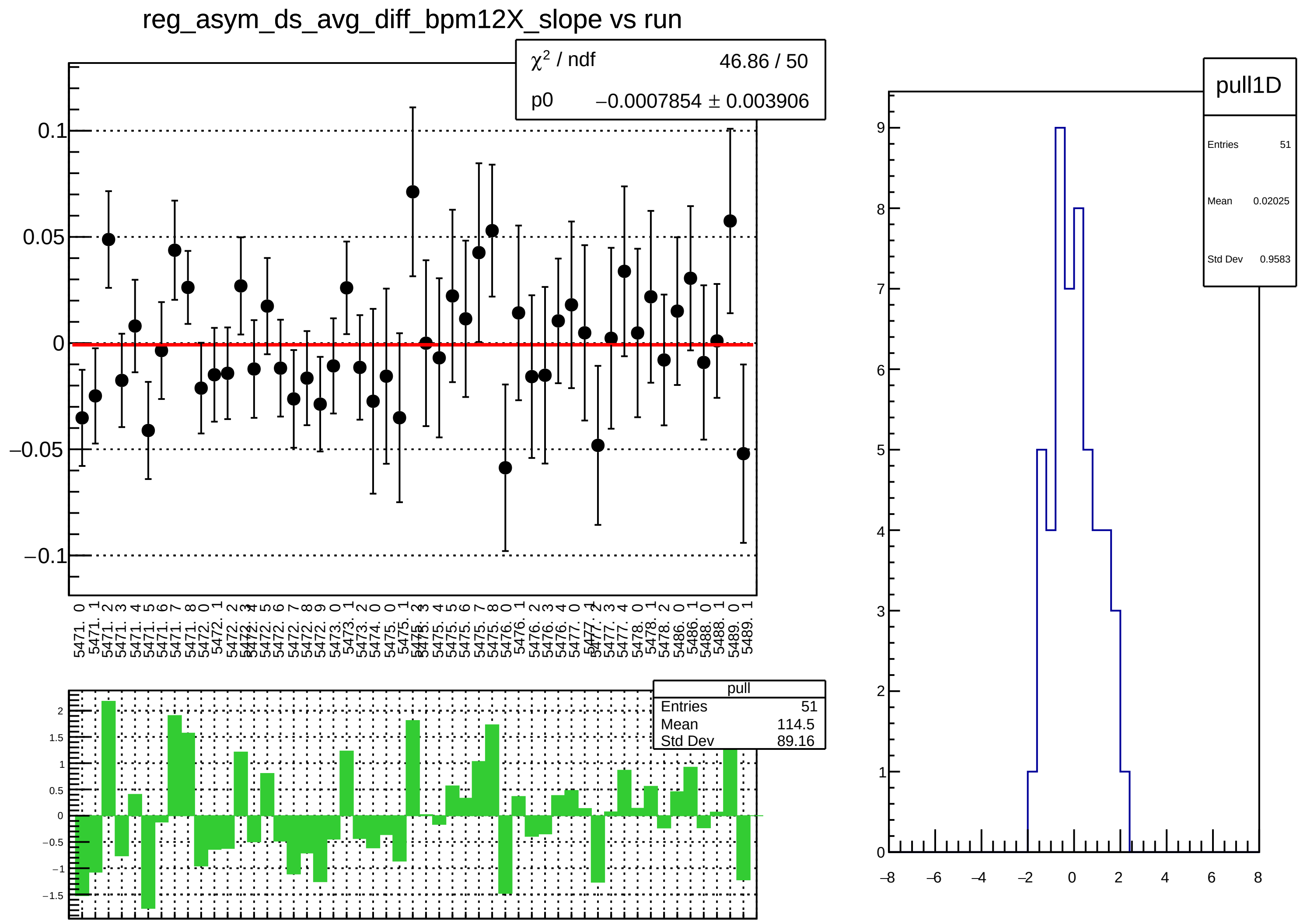
reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 49.39 / 50
p0 −0.1089 ± 0.09394
pull
Entries 51
Mean −23.4
Std Dev 47.72
pull1D
Entries 51
Mean 0.05485
Std Dev 0.9825



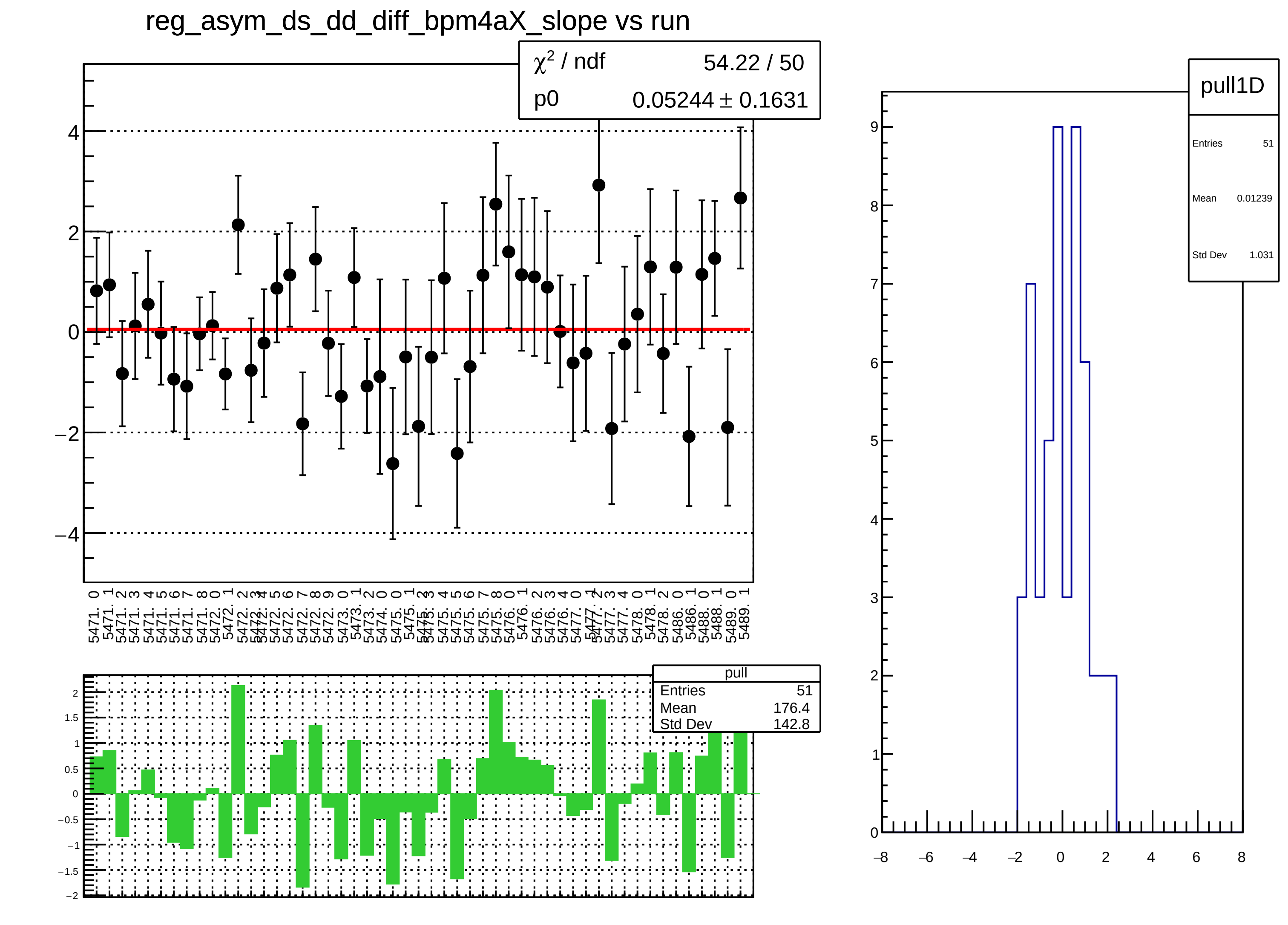
reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 54.6 / 50
p0 0.05002 ± 0.1583
pull
Entries 51
Mean 82.79
Std Dev 55.19
pull1D
Entries 51
Mean −0.0349
Std Dev 1.034



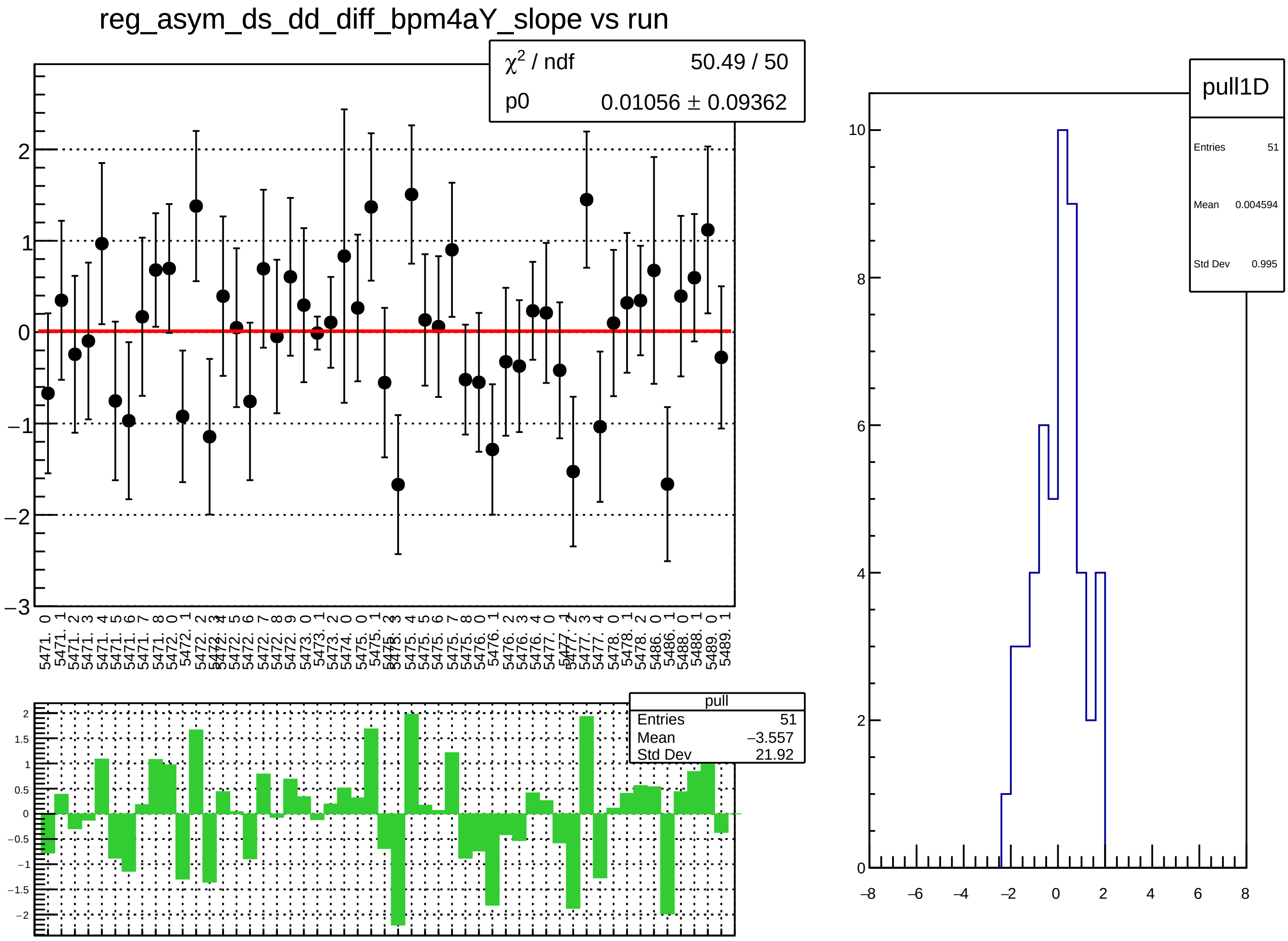
reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ2 / ndf 50.49 / 50
p0 0.1276 ± 0.1162
pull
Entries 51
Mean −21.21
Std Dev 44.77
pull1D
Entries 51
Mean −0.058
Std Dev 0.9933



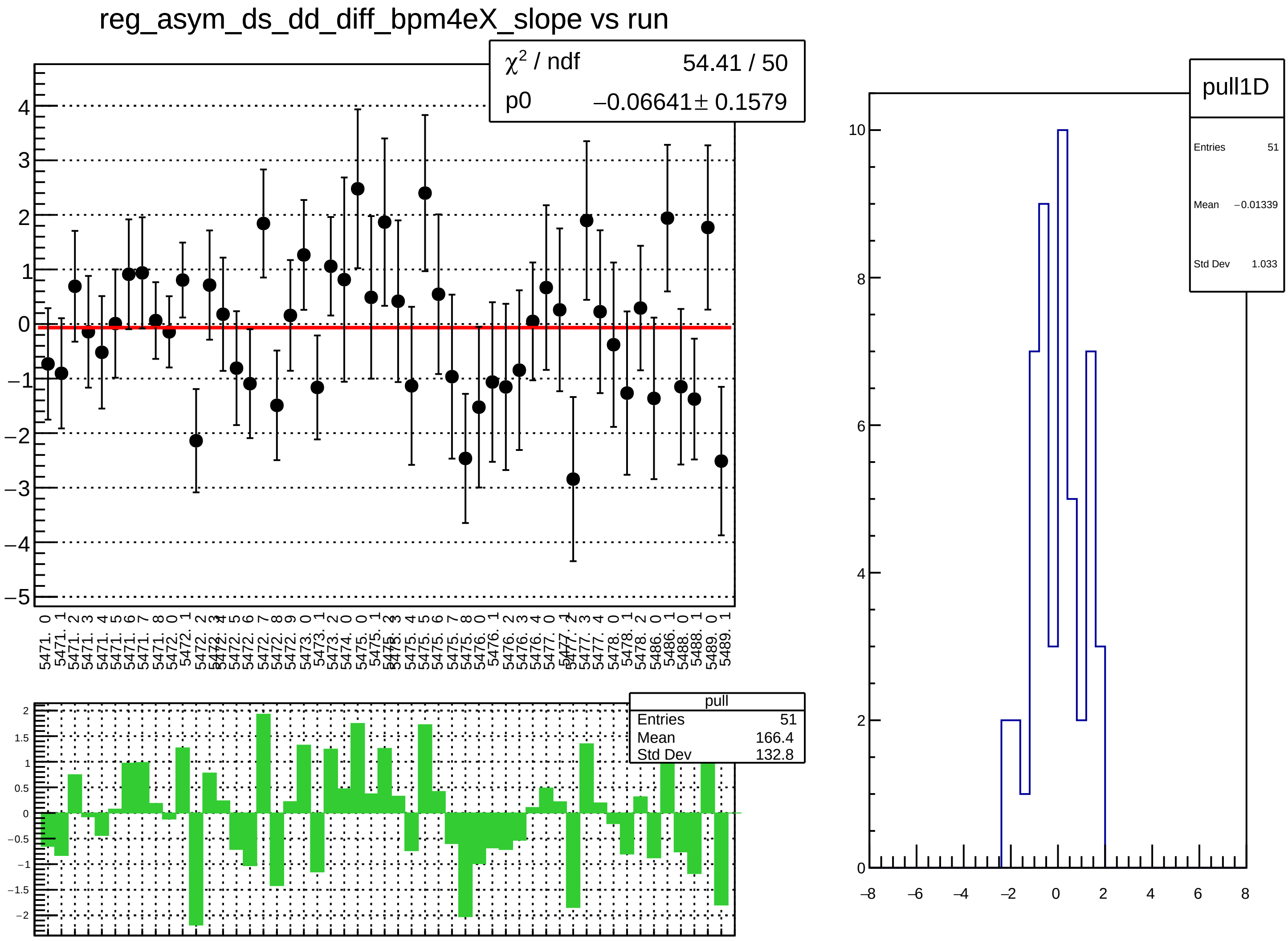
reg_asym_ds_avg_diff_bpm12X_slope vs run
χ^2 / ndf 46.86 / 50
p0 −0.0007854 ± 0.003906
pull
Entries 51
Mean 114.5
Std Dev 89.16
pull1D
Entries 51
Mean 0.02025
Std Dev 0.9583



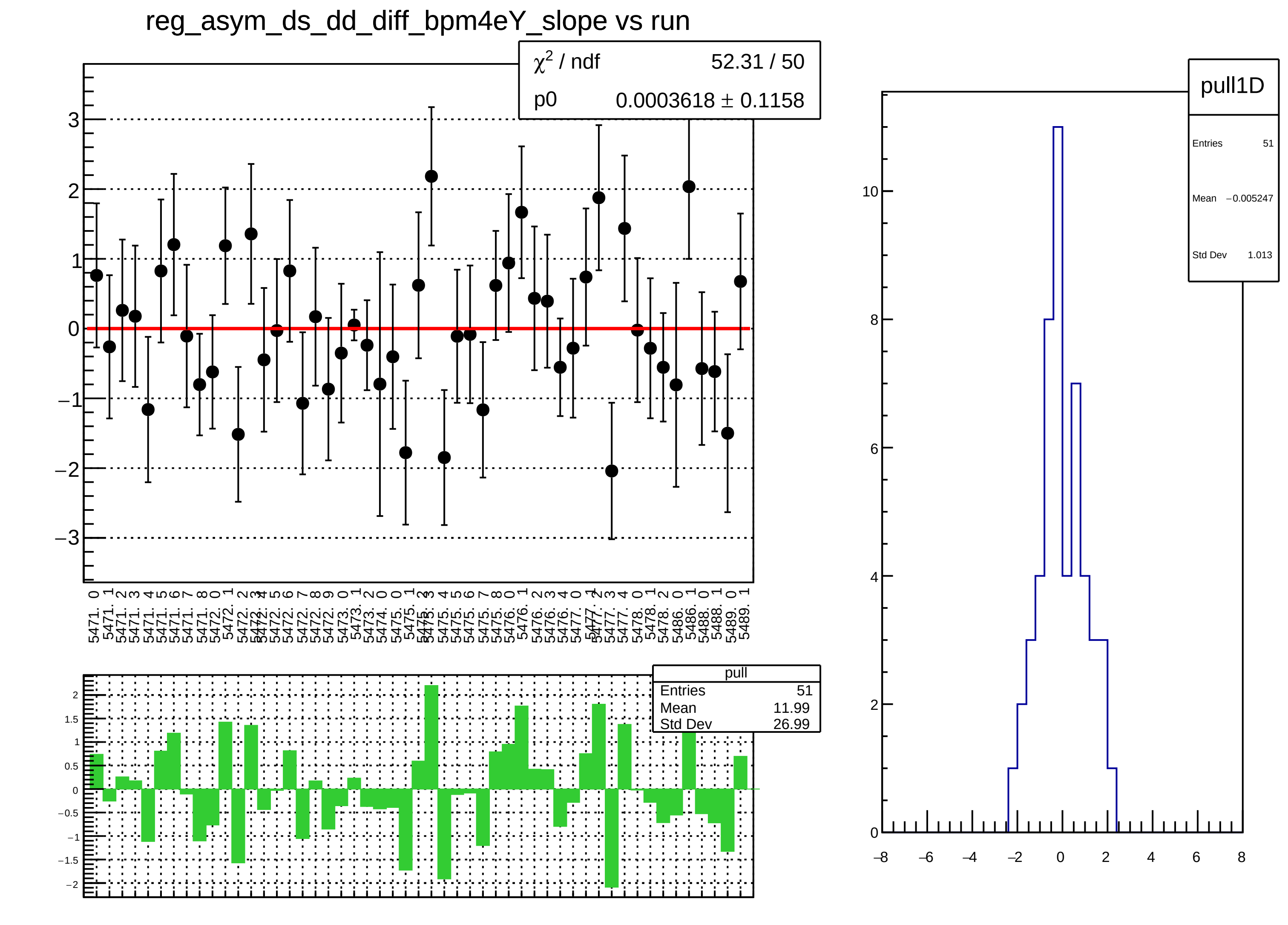
reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ2 / ndf 54.22 / 50
p0 0.05244 ± 0.1631
pull
Entries 51
Mean 176.4
Std Dev 142.8
pull1D
Entries 51
Mean 0.01239
Std Dev 1.031



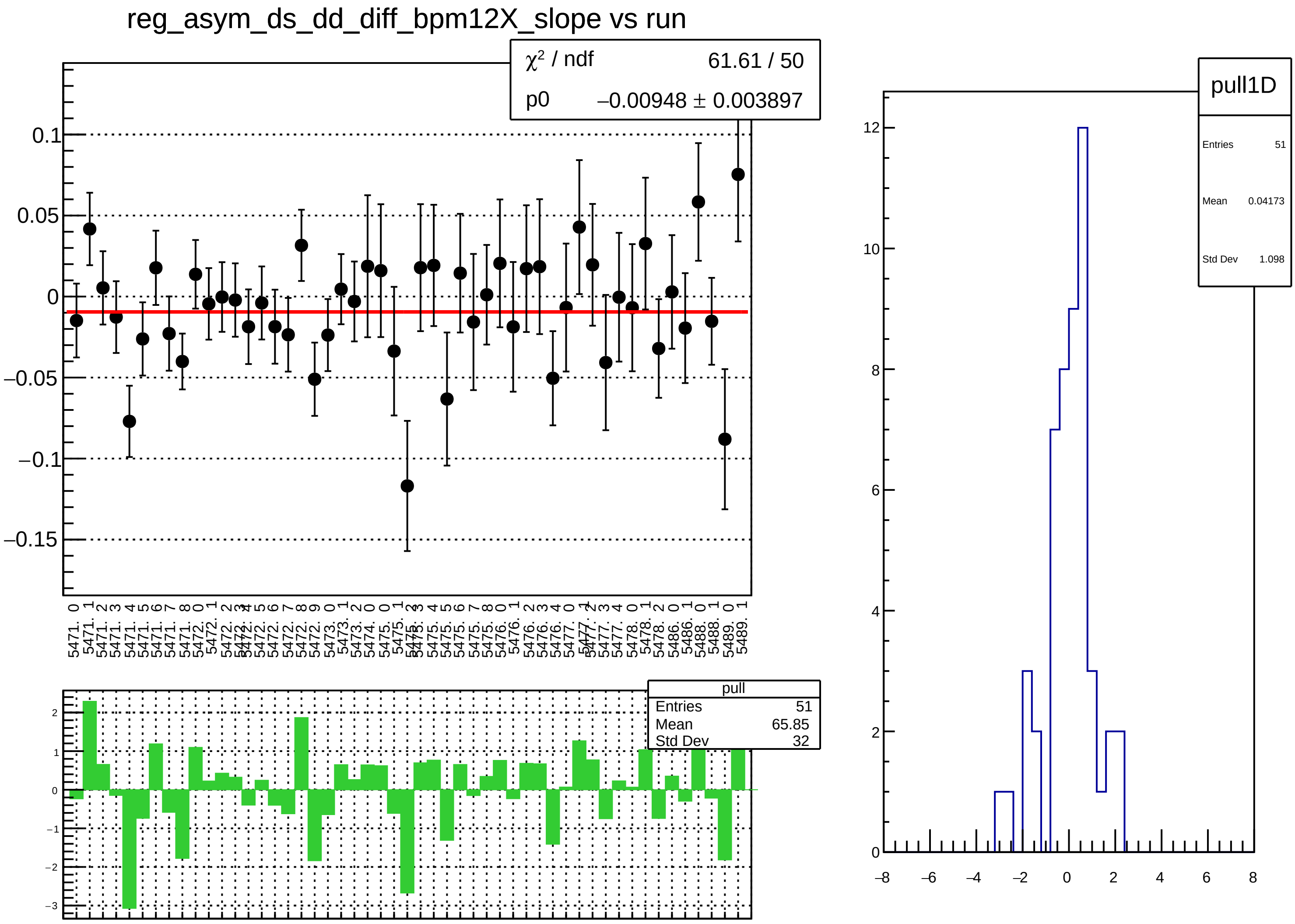
reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 50.49 / 50
p0 0.01056 ± 0.09362
pull
Entries 51
Mean −3.557
Std Dev 21.92
pull1D
Entries 51
Mean 0.004594
Std Dev 0.995



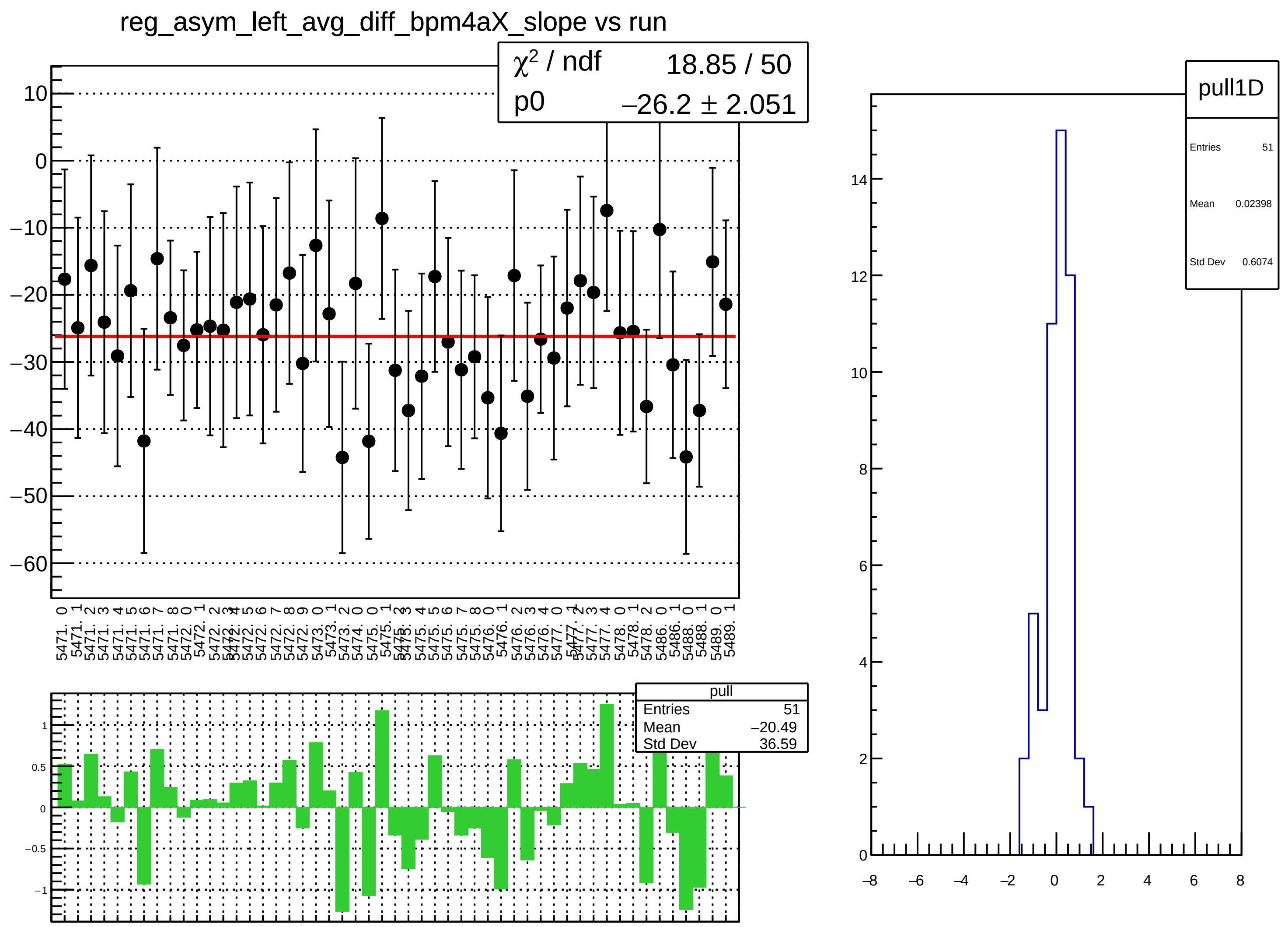
reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 54.41 / 50
p0 −0.06641 ± 0.1579
pull
Entries 51
Mean 166.4
Std Dev 132.8
pull1D
Entries 51
Mean −0.01339
Std Dev 1.033



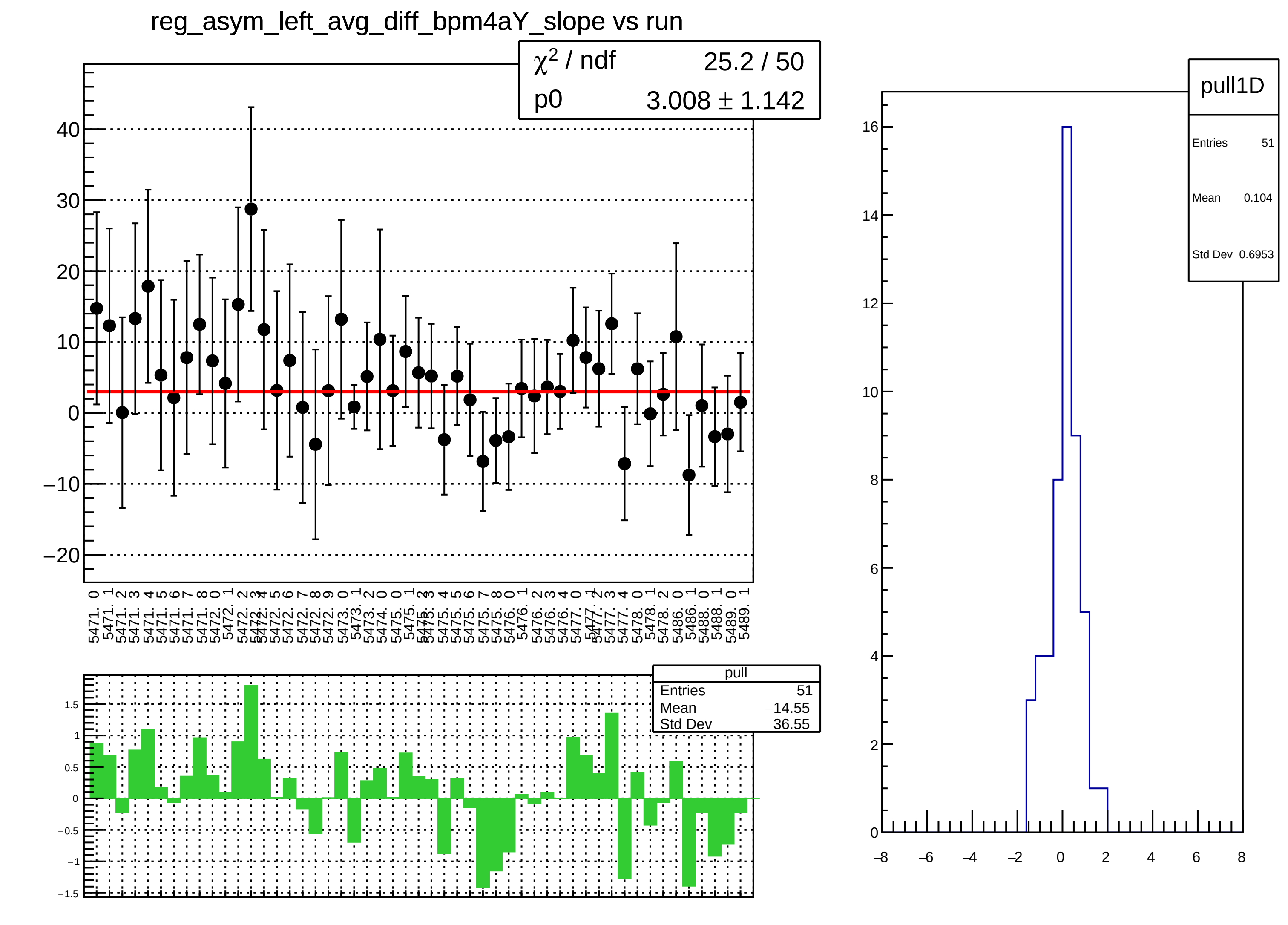
reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 52.31 / 50
p0 0.0003618 ± 0.1158
pull
Entries 51
Mean 11.99
Std Dev 26.99
pull1D
Entries 51
Mean −0.005247
Std Dev 1.013



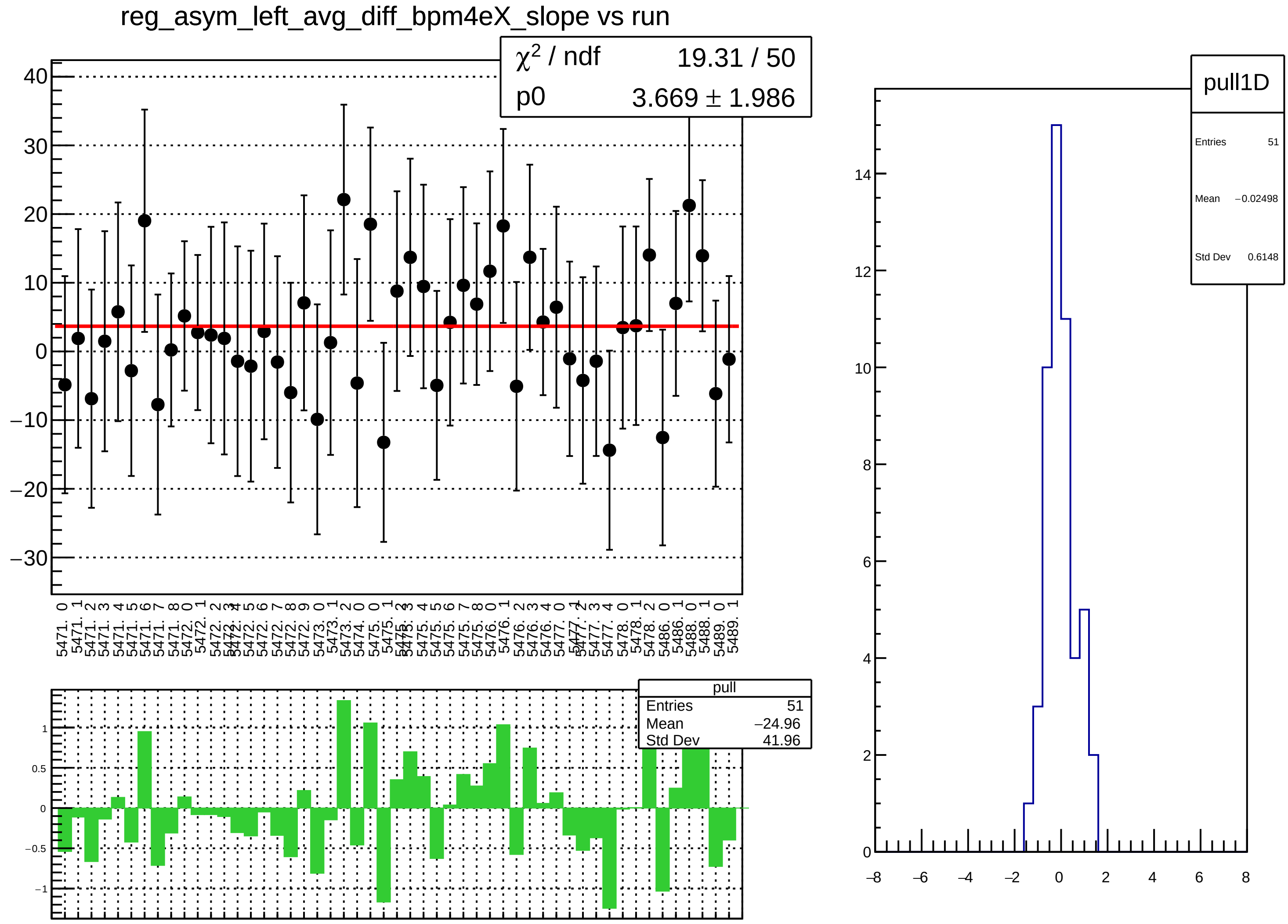
reg_asym_ds_dd_diff_bpm12X_slope vs run
χ^2 / ndf 61.61 / 50
p0 −0.00948 ± 0.003897
pull
Entries 51
Mean 65.85
Std Dev 32
pull1D
Entries 51
Mean 0.04173
Std Dev 1.098



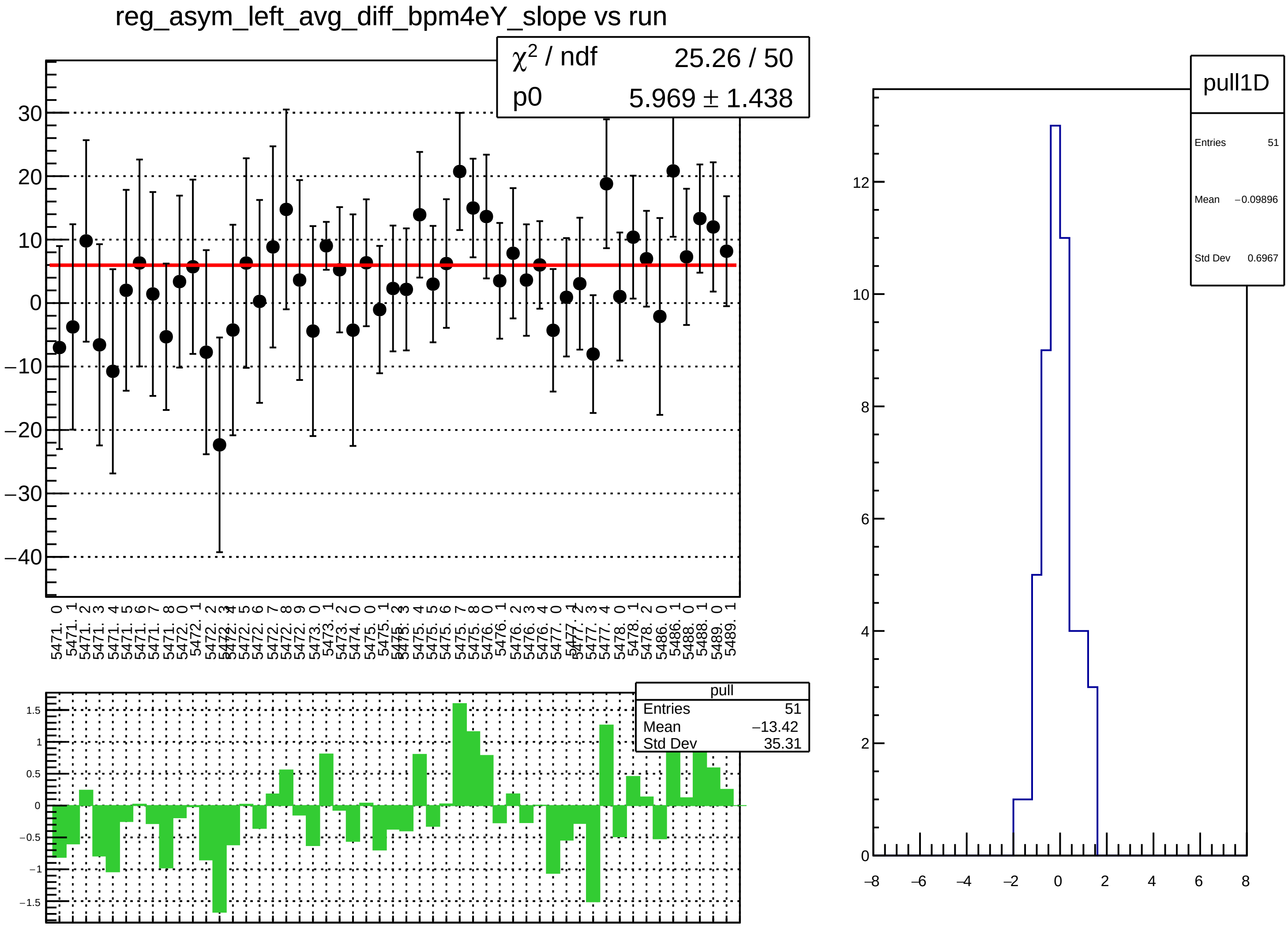
reg_asym_left_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 18.85 / 50
p0 −26.2 ± 2.051
pull
Entries 51
Mean −20.49
Std Dev 36.59
pull1D
Entries 51
Mean 0.02398
Std Dev 0.6074



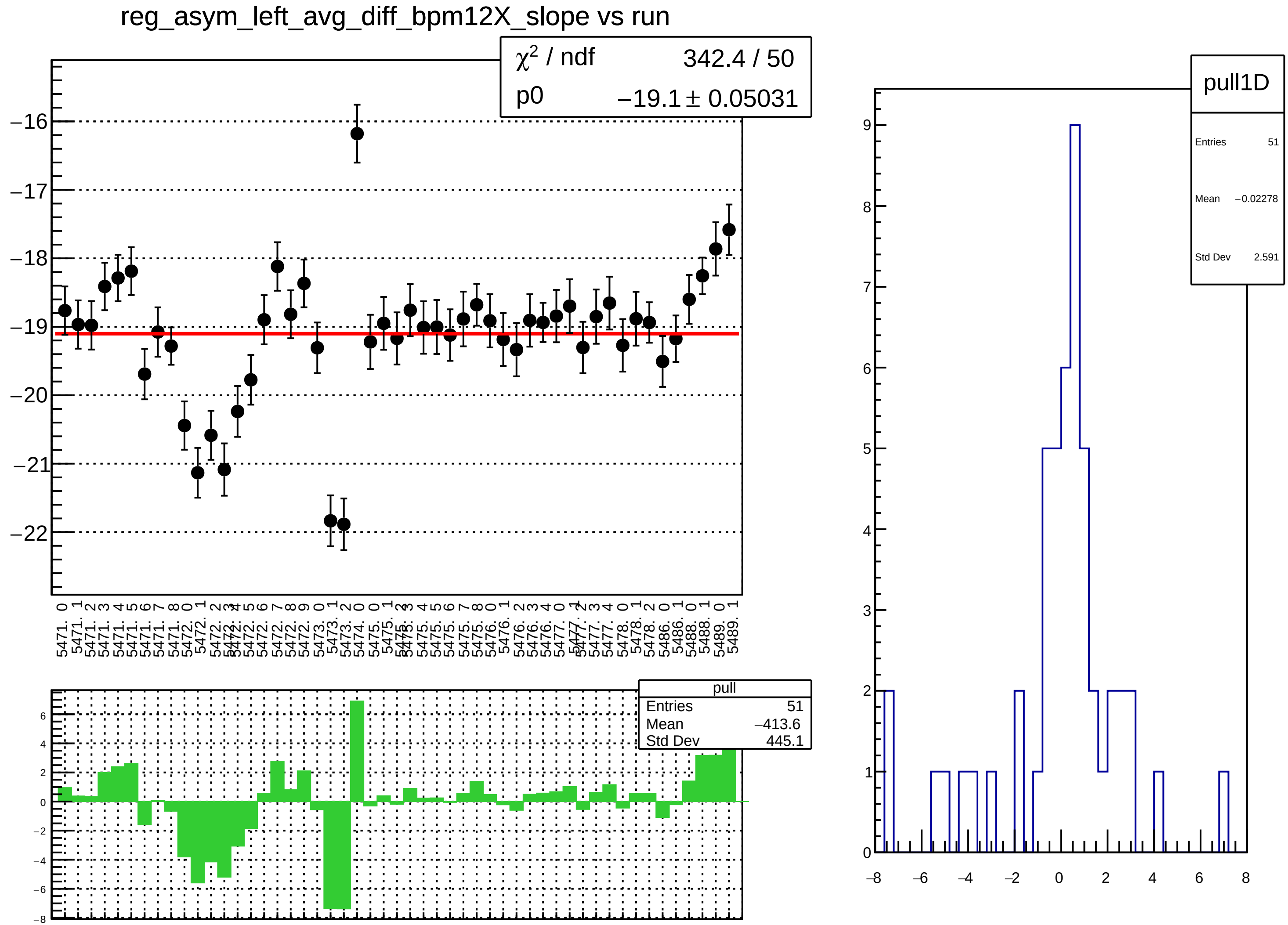
reg_asym_left_avg_diff_bpm4aY_slope vs run
χ2 / ndf 25.2 / 50
p0 3.008 ± 1.142
pull
Entries 51
Mean −14.55
Std Dev 36.55
pull1D
Entries 51
Mean 0.104
Std Dev 0.6953



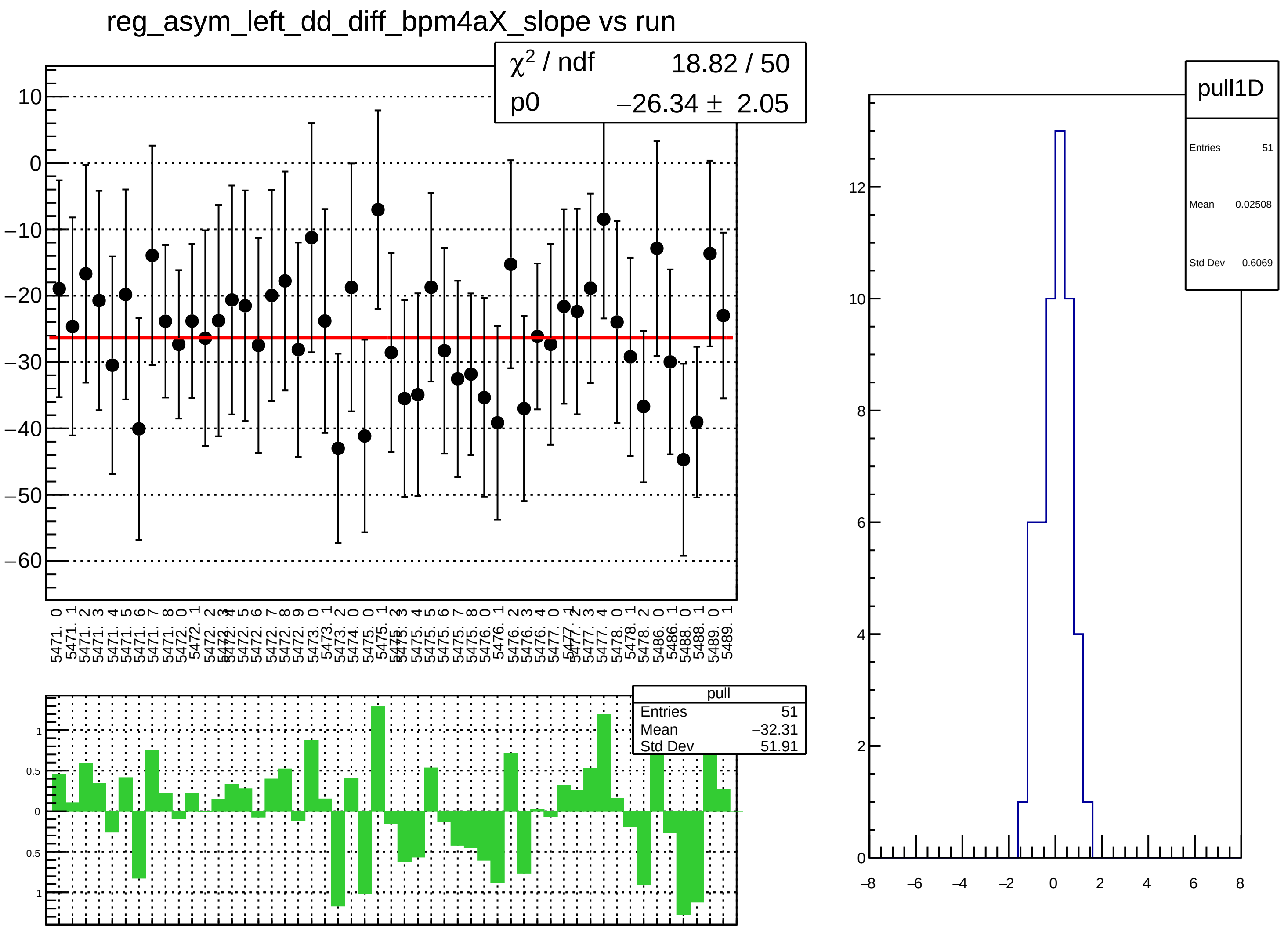
reg_asym_left_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 19.31 / 50
p0 3.669 ± 1.986
pull
Entries 51
Mean −24.96
Std Dev 41.96
pull1D
Entries 51
Mean −0.02498
Std Dev 0.6148



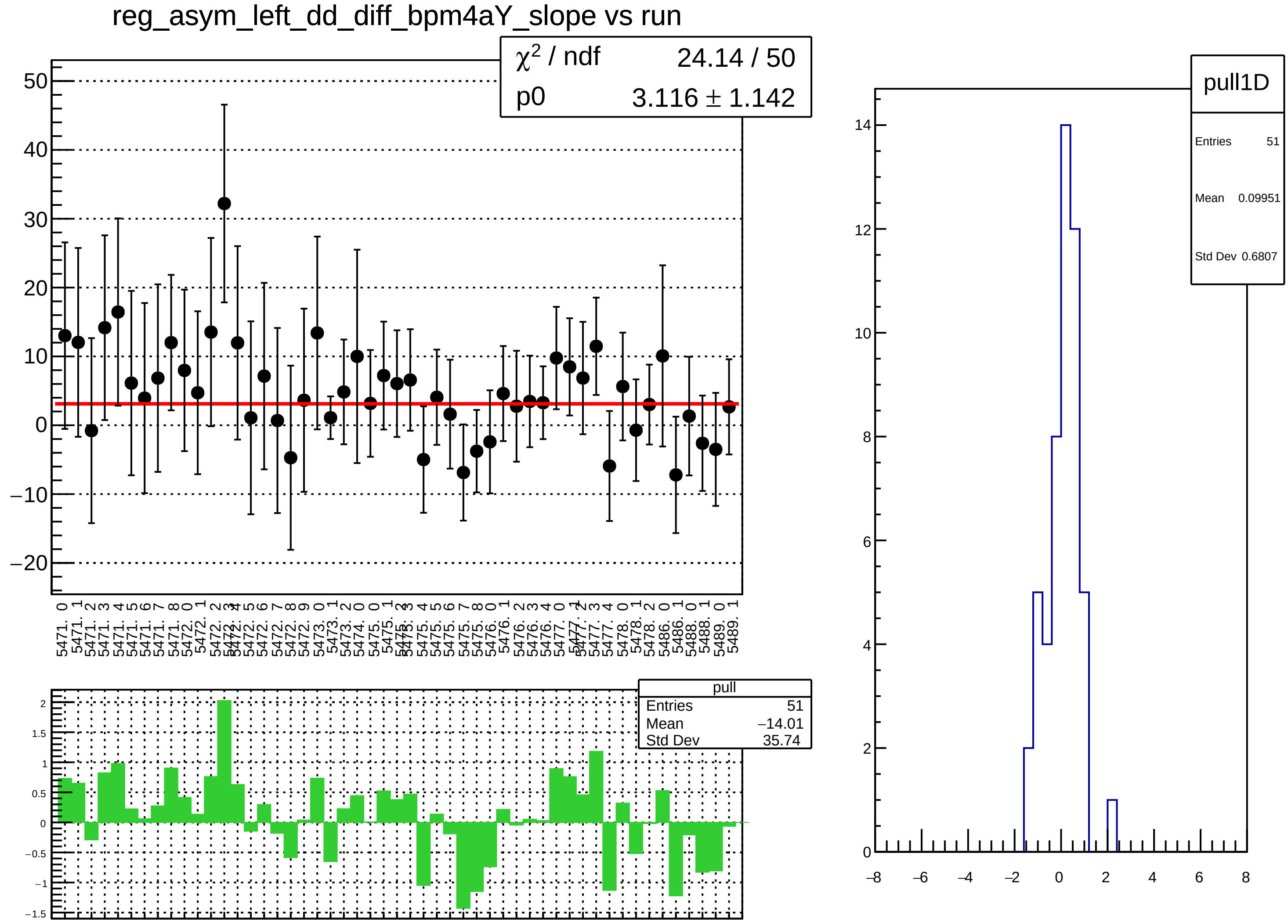
reg_asym_left_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 25.26 / 50
p0 5.969 ± 1.438
pull
Entries 51
Mean −13.42
Std Dev 35.31
pull1D
Entries 51
Mean −0.09896
Std Dev 0.6967



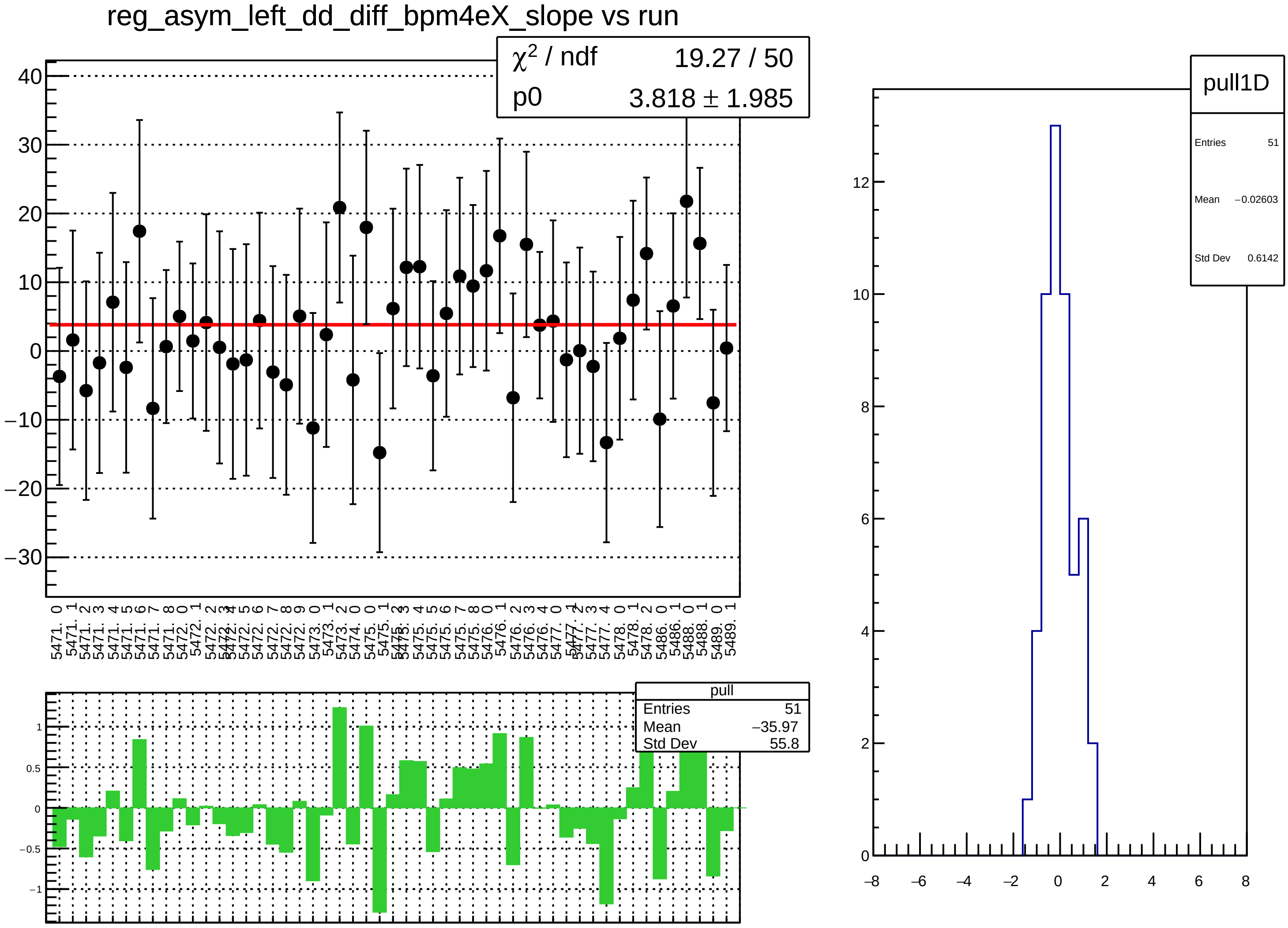
reg_asym_left_avg_diff_bpm12X_slope vs run
χ2 / ndf 342.4 / 50
p0 −19.1 ± 0.05031
pull
Entries 51
Mean −413.6
Std Dev 445.1
pull1D
Entries 51
Mean −0.02278
Std Dev 2.591



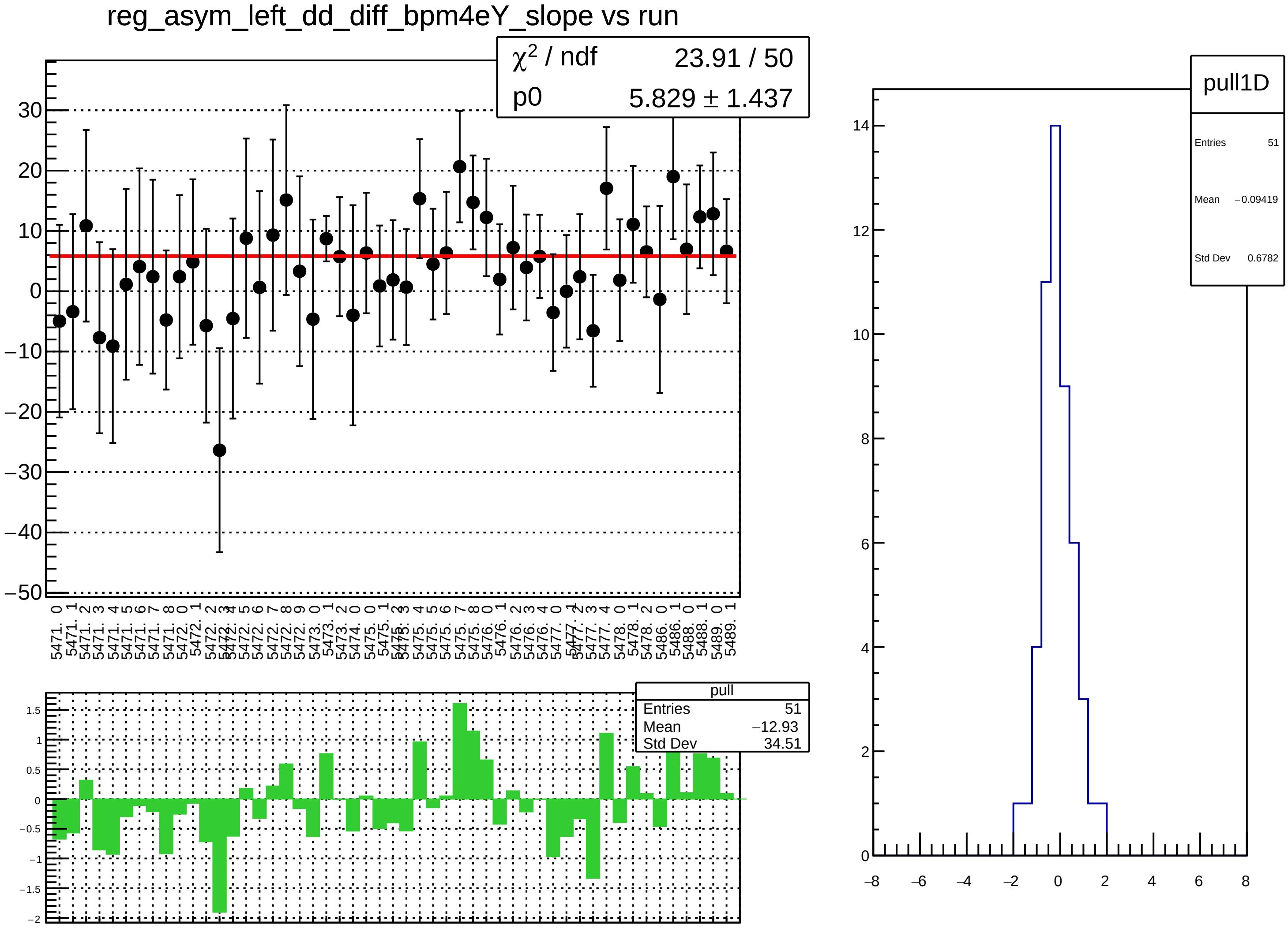
reg_asym_left_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 18.82 / 50
p0 −26.34 ± 2.05
pull
Entries 51
Mean −32.31
Std Dev 51.91
pull1D
Entries 51
Mean 0.02508
Std Dev 0.6069



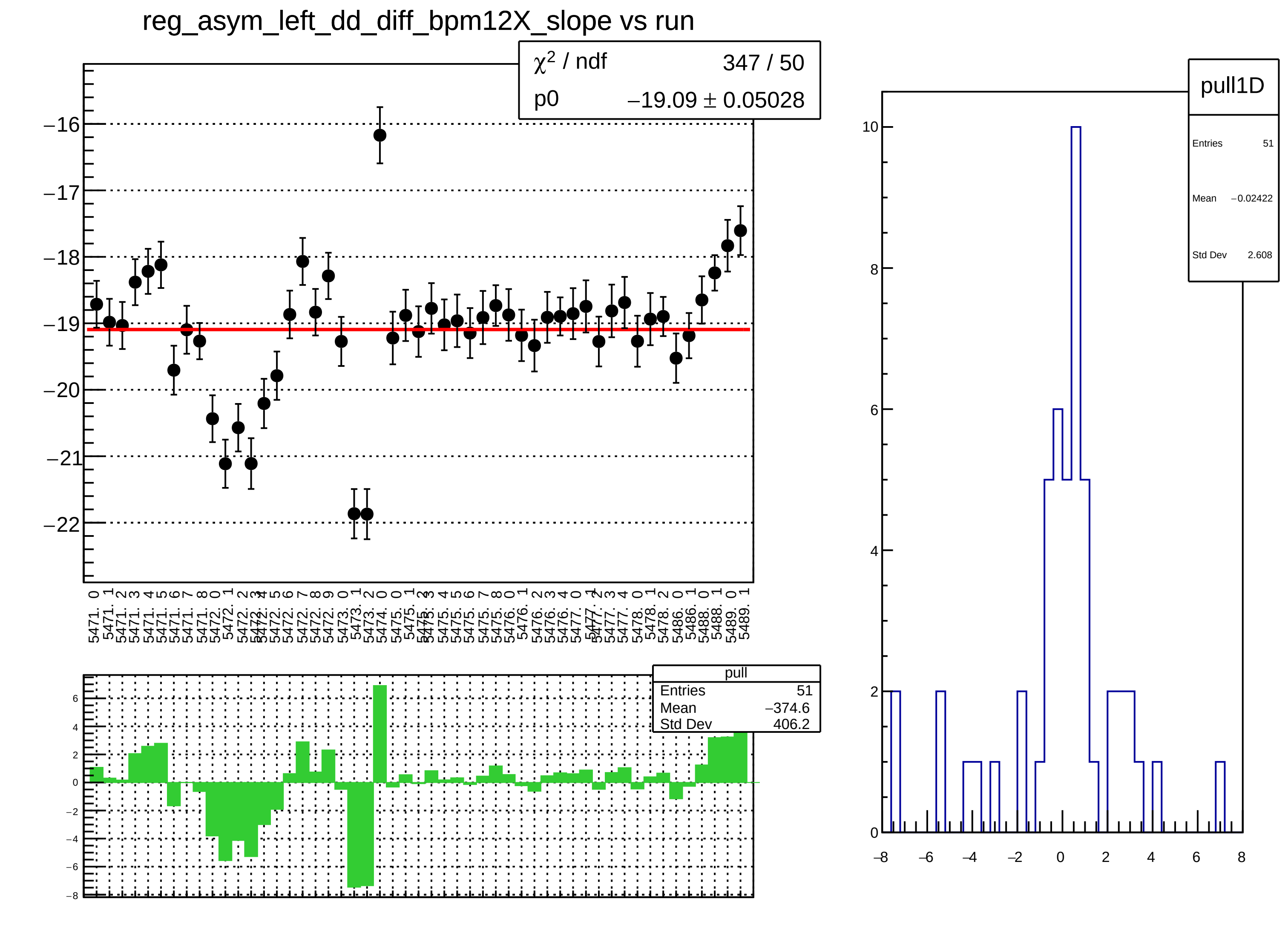
reg_asym_left_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 24.14 / 50
p0 3.116 ± 1.142
pull
Entries 51
Mean −14.01
Std Dev 35.74
pull1D
Entries 51
Mean 0.09951
Std Dev 0.6807



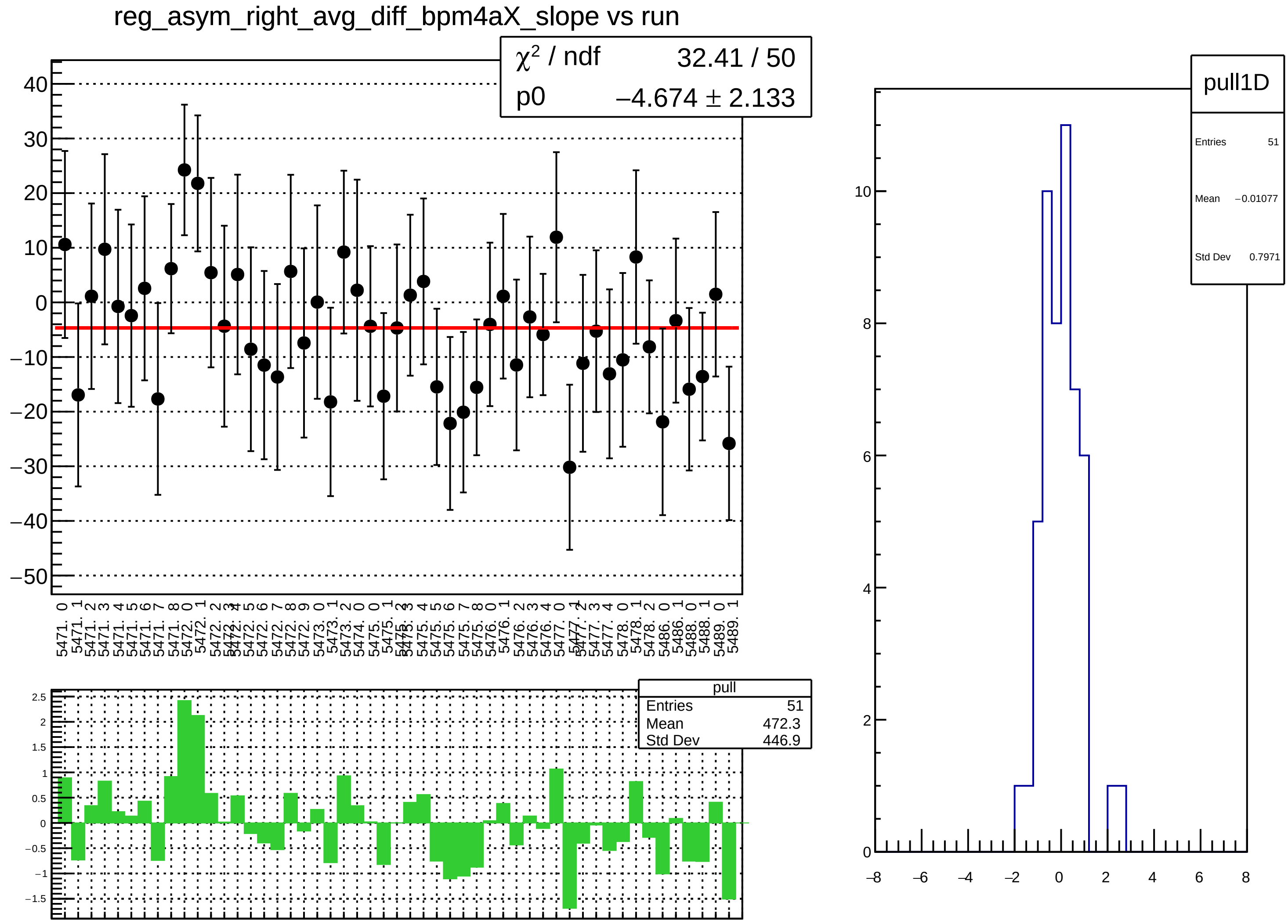
reg_asym_left_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 19.27 / 50
p0 3.818 ± 1.985
pull
Entries 51
Mean −35.97
Std Dev 55.8
pull1D
Entries 51
Mean −0.02603
Std Dev 0.6142



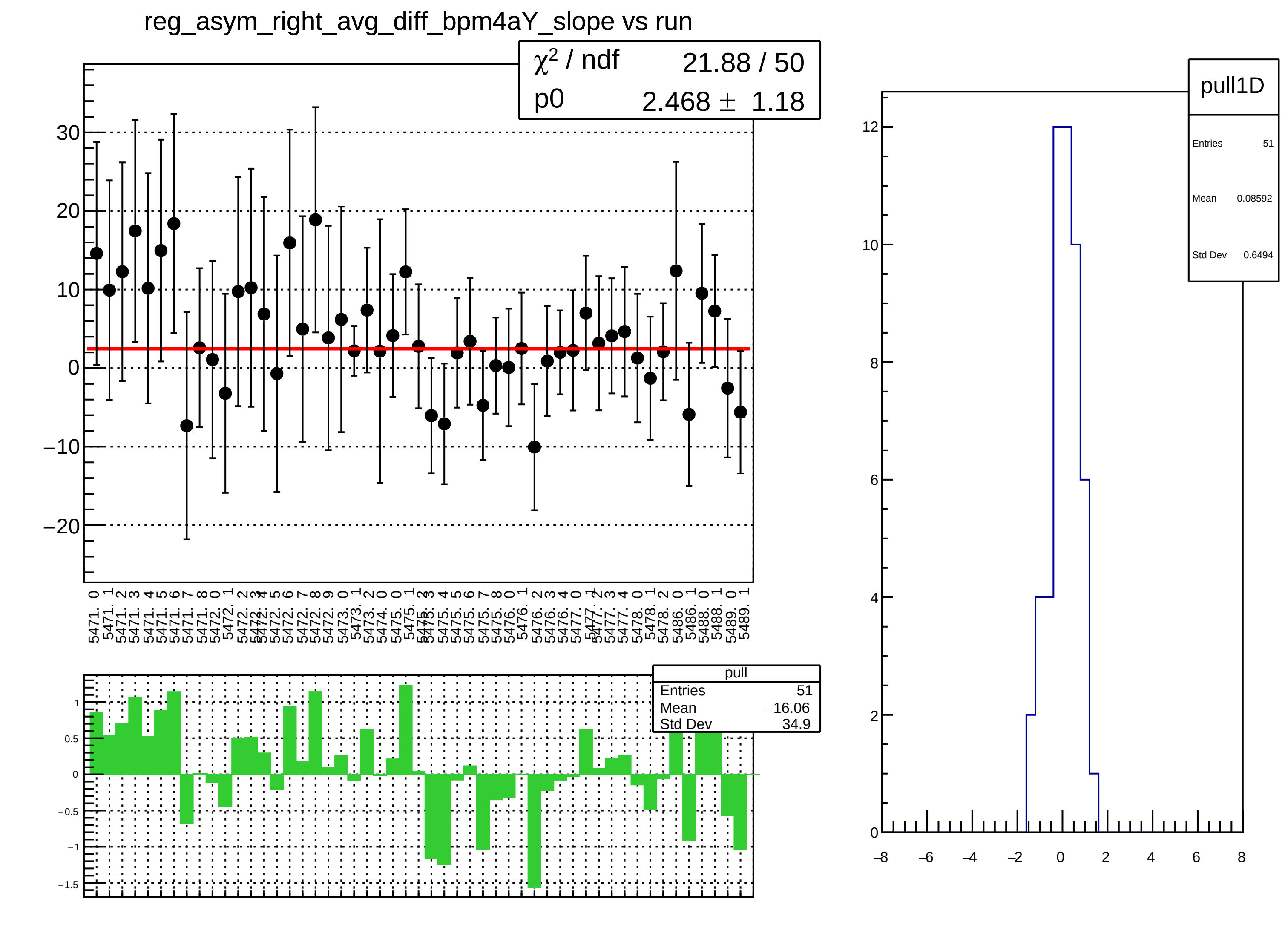
reg_asym_left_dd_diff_bpm4eY_slope vs run
χ2 / ndf 23.91 / 50
p0 5.829 ± 1.437
pull
Entries 51
Mean −12.93
Std Dev 34.51
pull1D
Entries 51
Mean −0.09419
Std Dev 0.6782



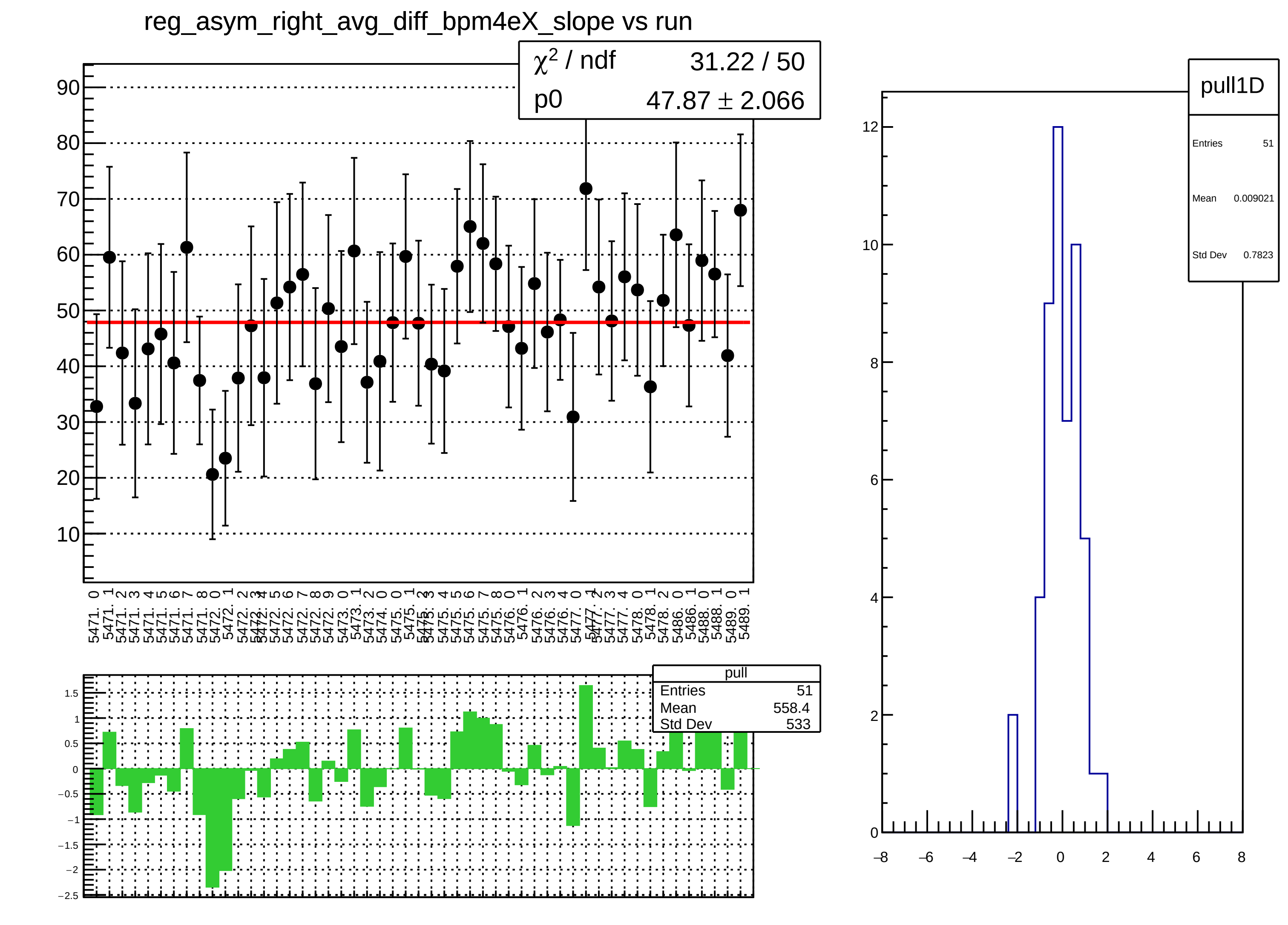
reg_asym_left_dd_diff_bpm12X_slope vs run
χ^2 / ndf 347 / 50
p0 −19.09 ± 0.05028
pull
Entries 51
Mean −374.6
Std Dev 406.2
pull1D
Entries 51
Mean −0.02422
Std Dev 2.608



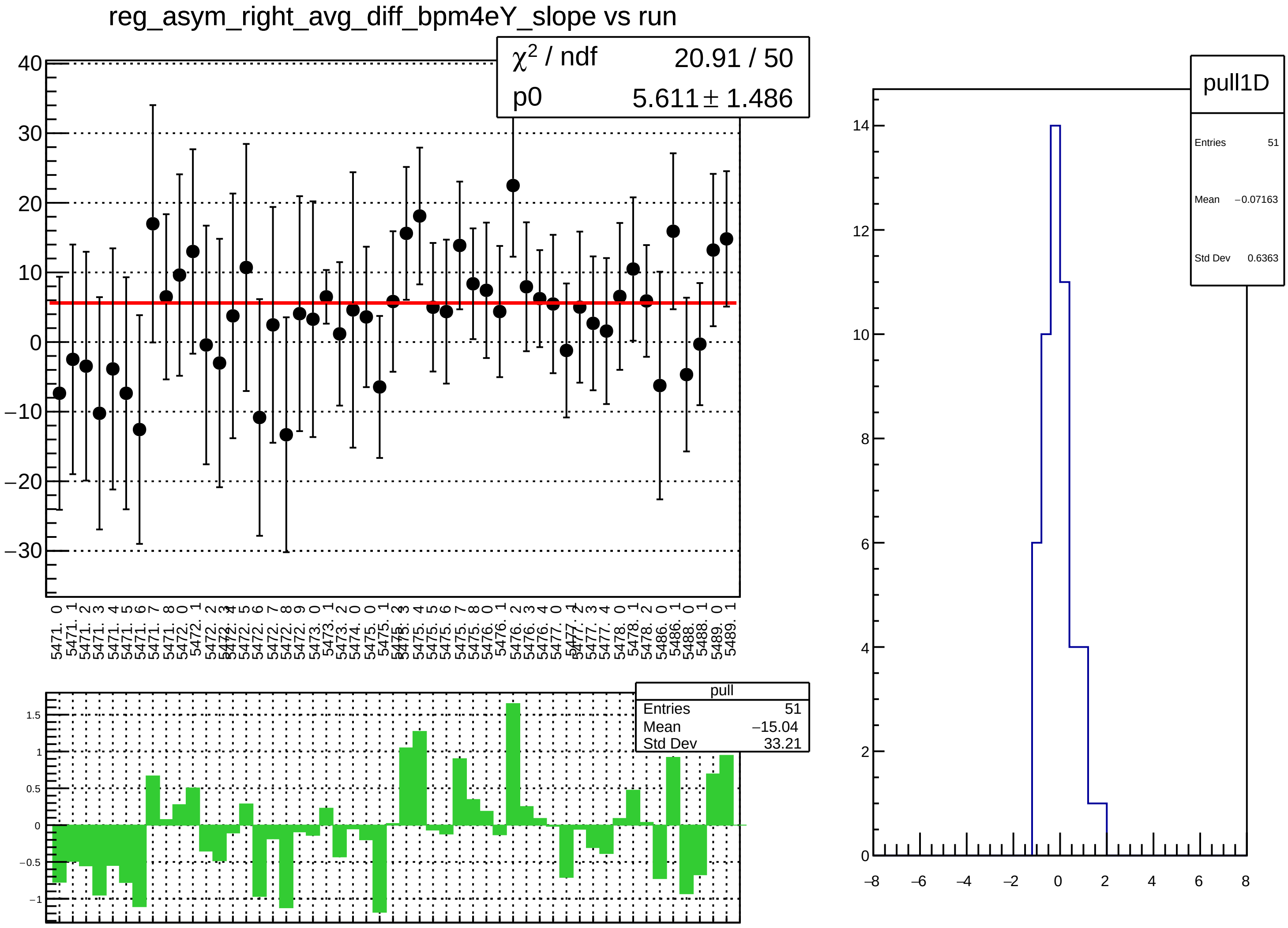
reg_asym_right_avg_diff_bpm4aX_slope vs run
χ2 / ndf 32.41 / 50
p0 −4.674 ± 2.133
pull
Entries 51
Mean 472.3
Std Dev 446.9
pull1D
Entries 51
Mean −0.01077
Std Dev 0.7971



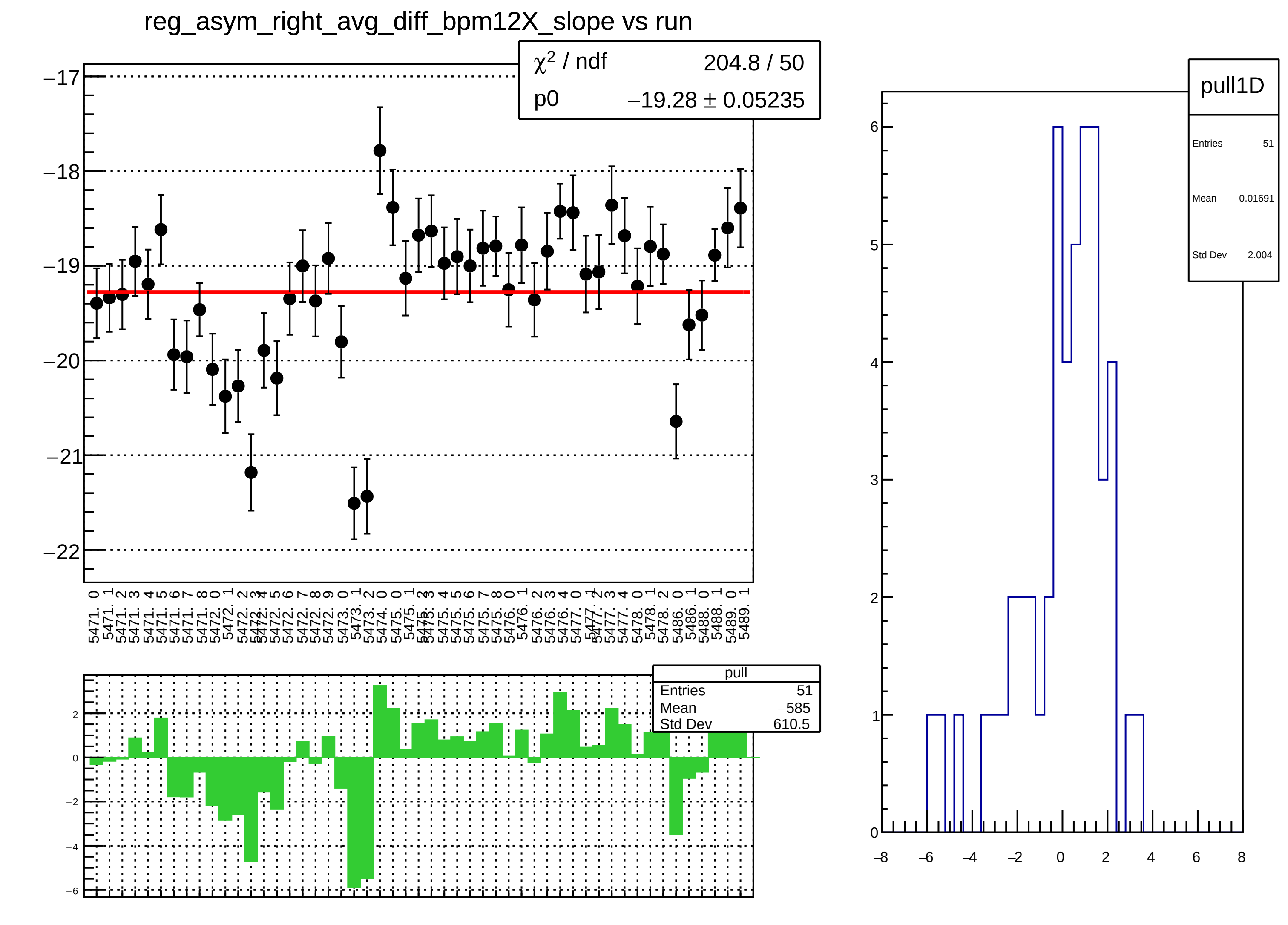
reg_asym_right_avg_diff_bpm4aY_slope vs run
χ2 / ndf 21.88 / 50
p0 2.468 ± 1.18
pull
Entries 51
Mean −16.06
Std Dev 34.9
pull1D
Entries 51
Mean 0.08592
Std Dev 0.6494



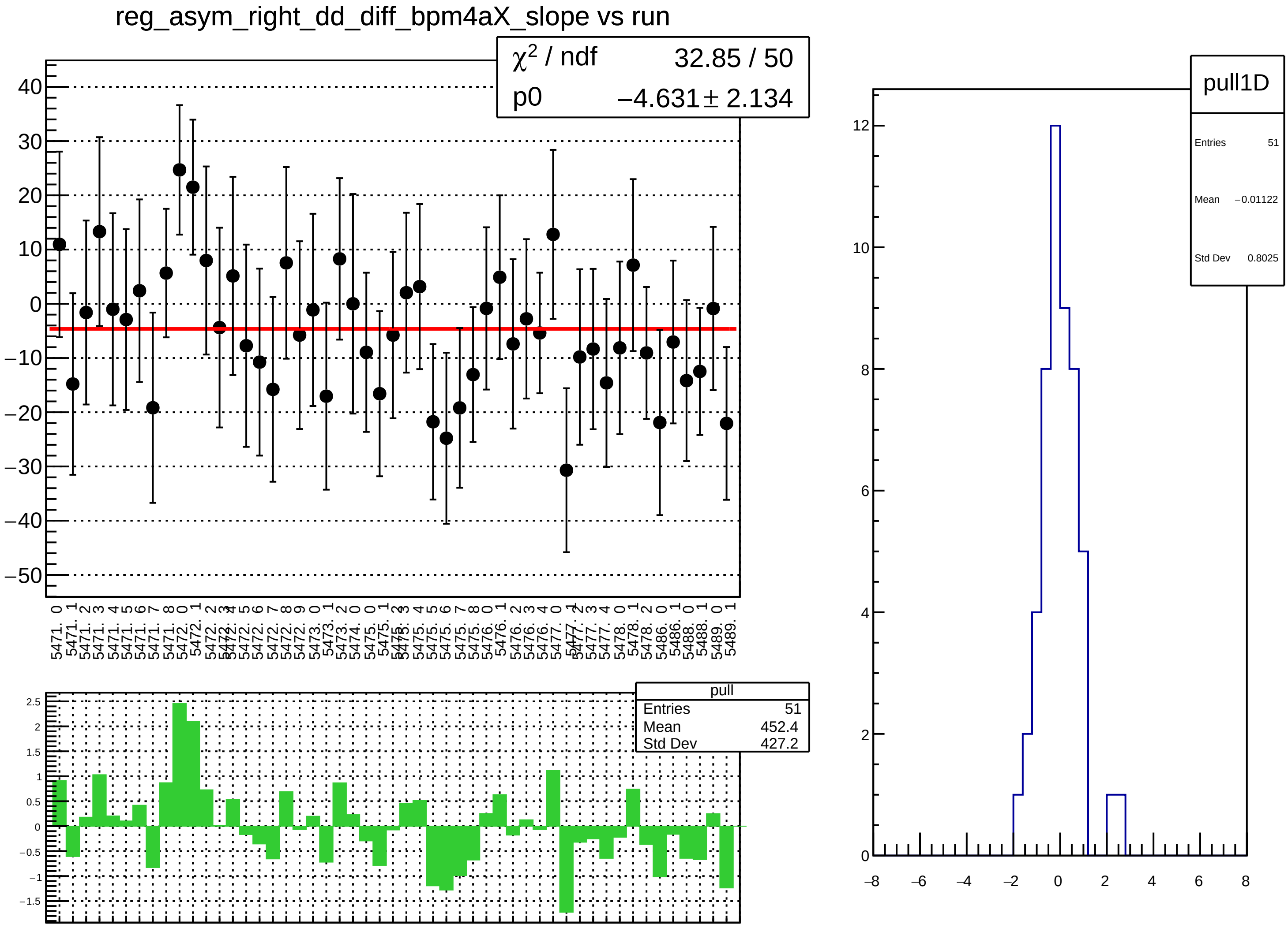
reg_asym_right_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 31.22 / 50
p0 47.87 ± 2.066
pull
Entries 51
Mean 558.4
Std Dev 533
pull1D
Entries 51
Mean 0.009021
Std Dev 0.7823

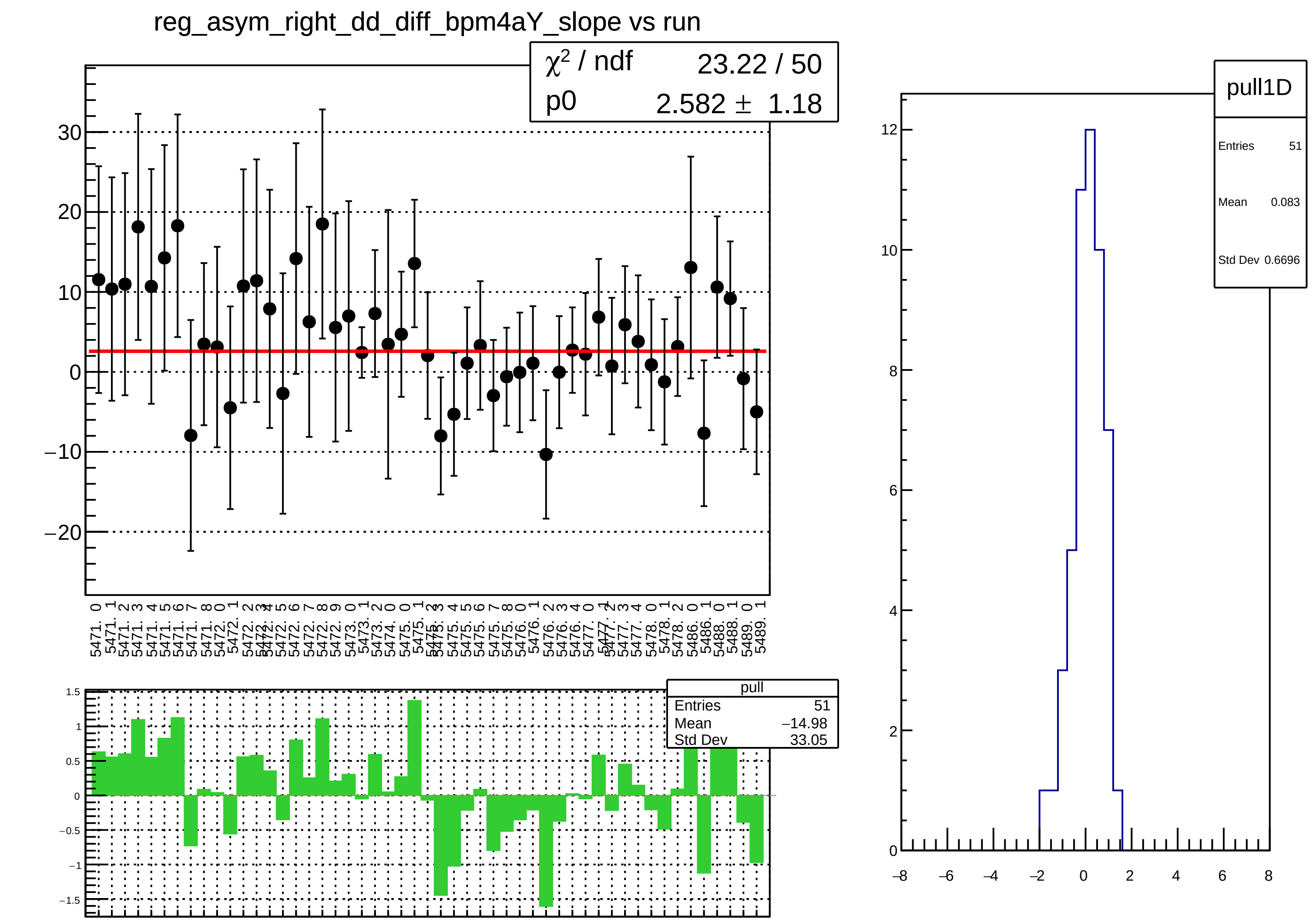


reg_asym_right_avg_diff_bpm4eY_slope vs run
χ2 / ndf 20.91 / 50
p0 5.611 ± 1.486
pull
Entries 51
Mean −15.04
Std Dev 33.21
pull1D
Entries 51
Mean −0.07163
Std Dev 0.6363

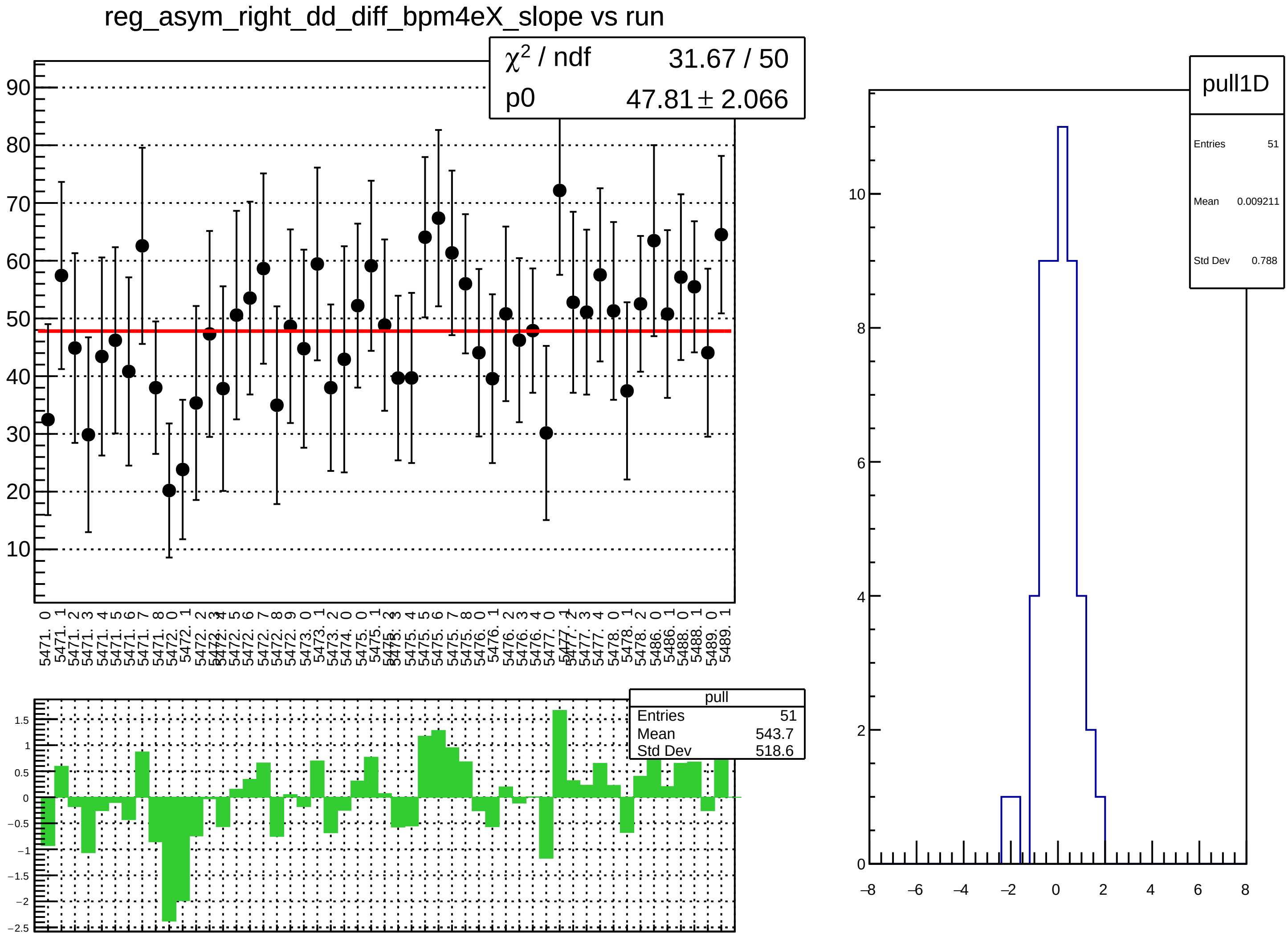


reg_asym_right_avg_diff_bpm12X_slope vs run
χ^2 / ndf 204.8 / 50
p0 −19.28 ± 0.05235
pull
Entries 51
Mean −585
Std Dev 610.5
pull1D
Entries 51
Mean −0.01691
Std Dev 2.004

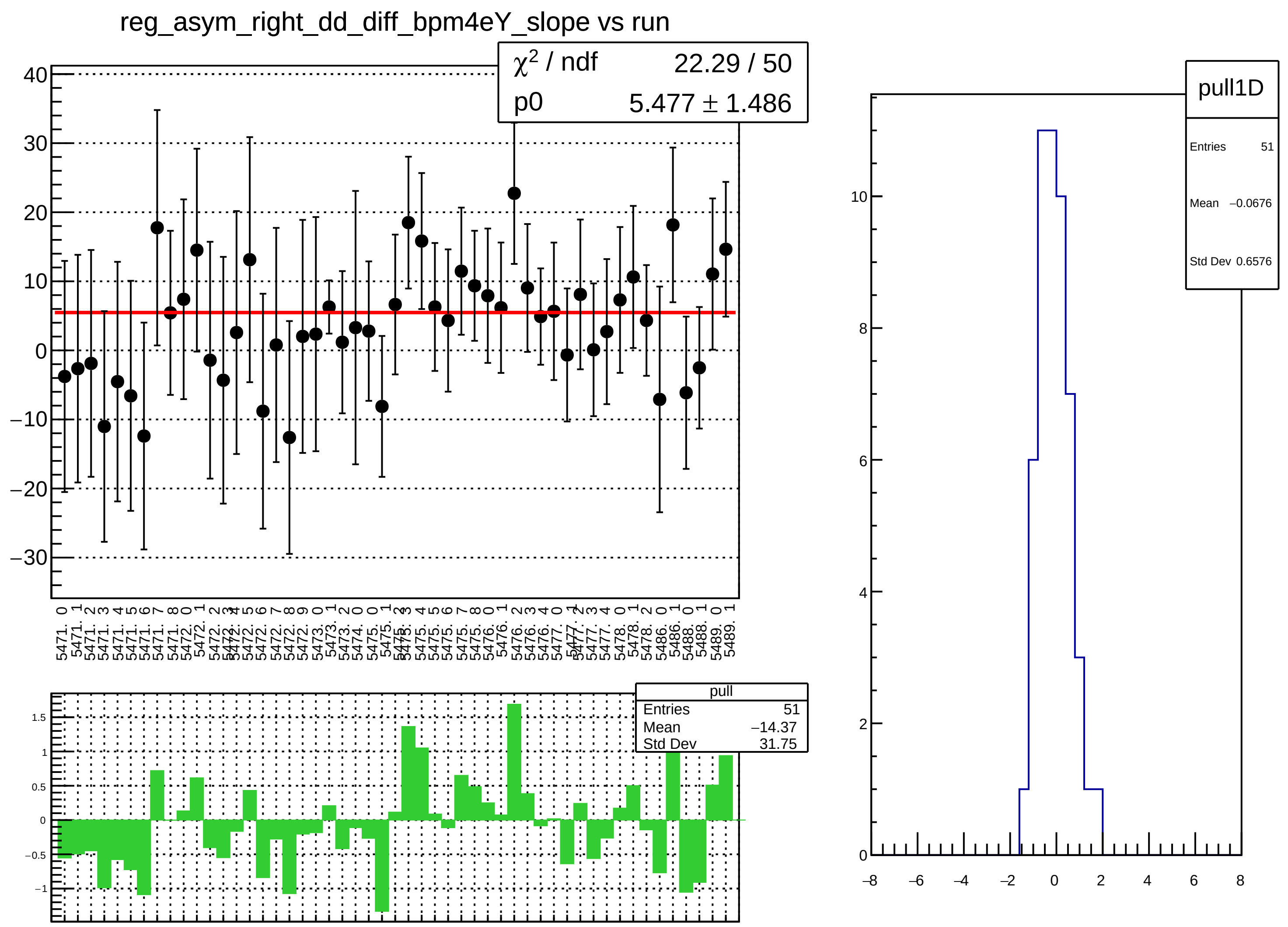

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ2 / ndf 32.85 / 50
p0 −4.631 ± 2.134
pull
Entries 51
Mean 452.4
Std Dev 427.2
pull1D
Entries 51
Mean −0.01122
Std Dev 0.8025



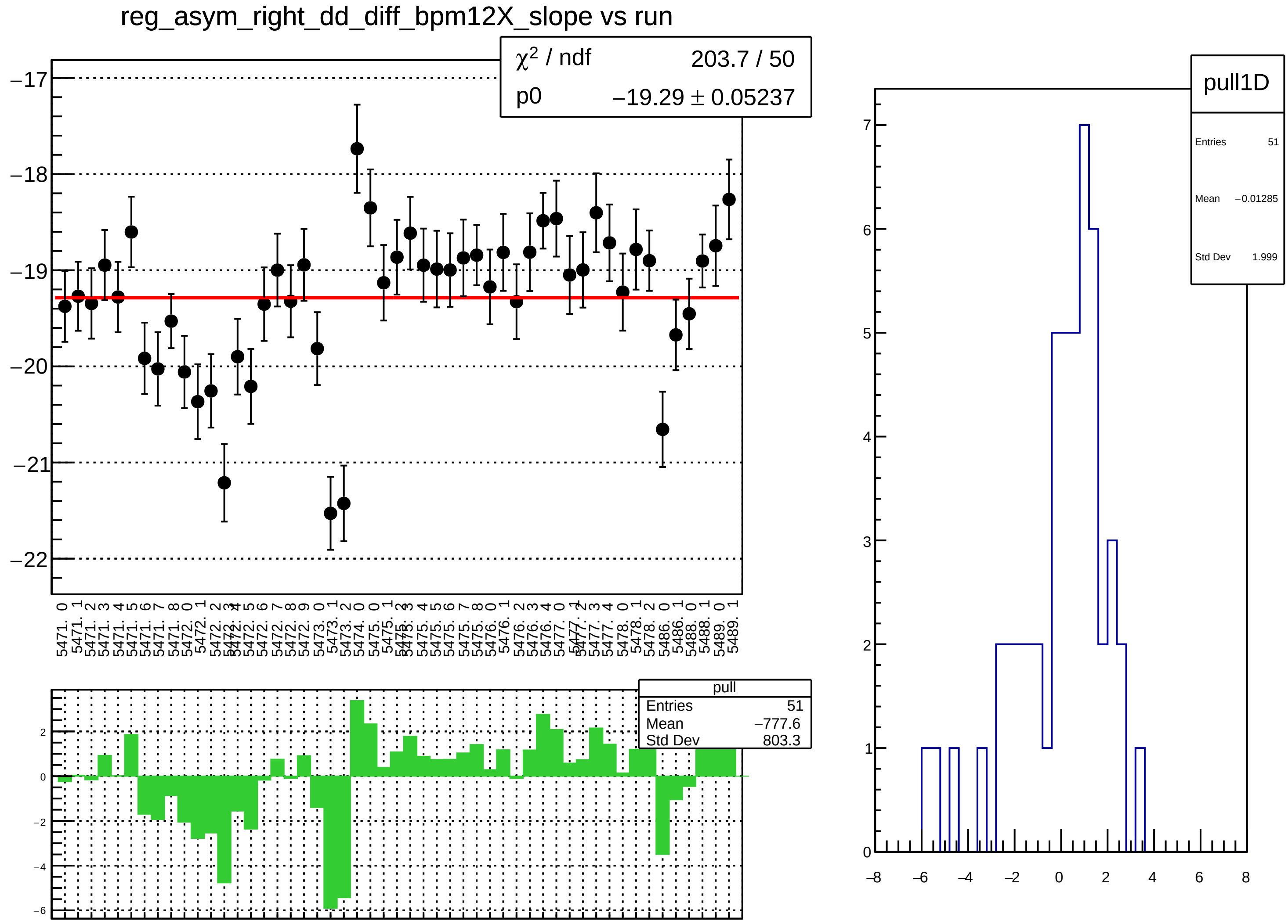
reg_asym_right_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 23.22 / 50
p0 2.582 ± 1.18
pull
Entries 51
Mean −14.98
Std Dev 33.05
pull1D
Entries 51
Mean 0.083
Std Dev 0.6696



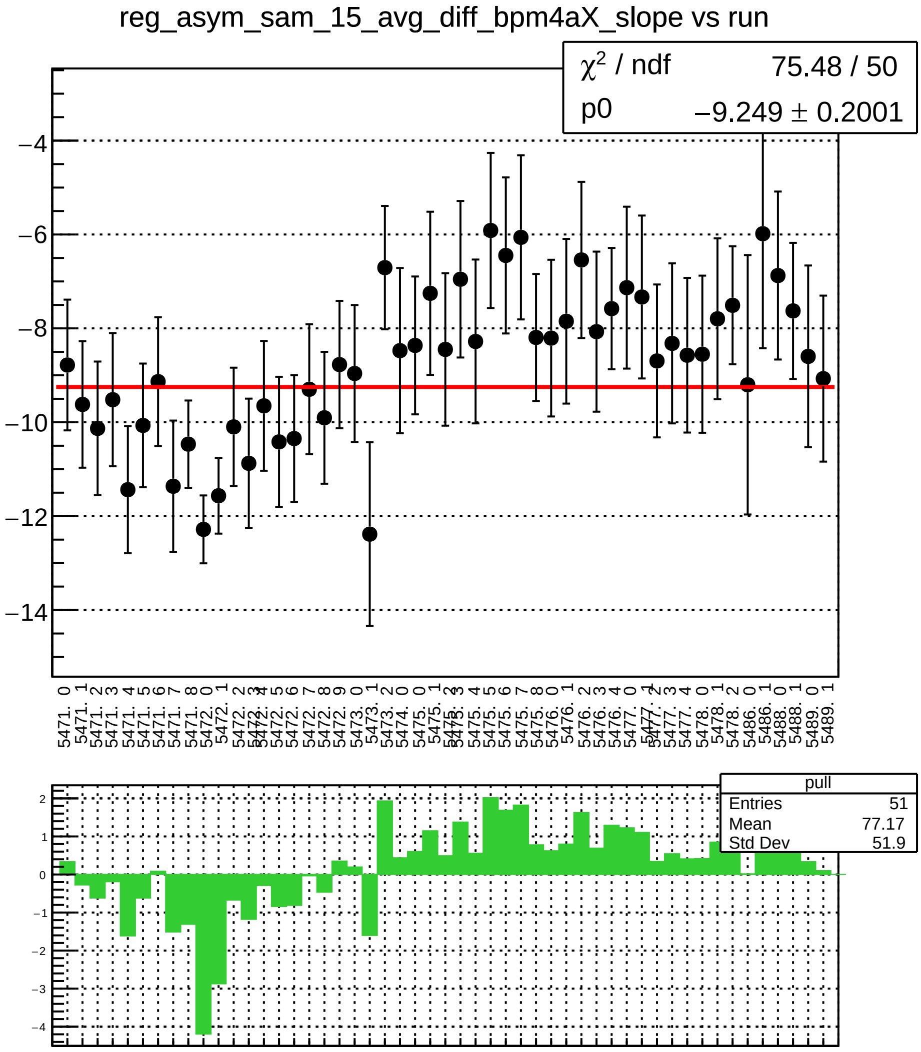
reg_asym_right_dd_diff_bpm4eX_slope vs run
χ2 / ndf 31.67 / 50
p0 47.81 ± 2.066
pull
Entries 51
Mean 543.7
Std Dev 518.6
pull1D
Entries 51
Mean 0.009211
Std Dev 0.788



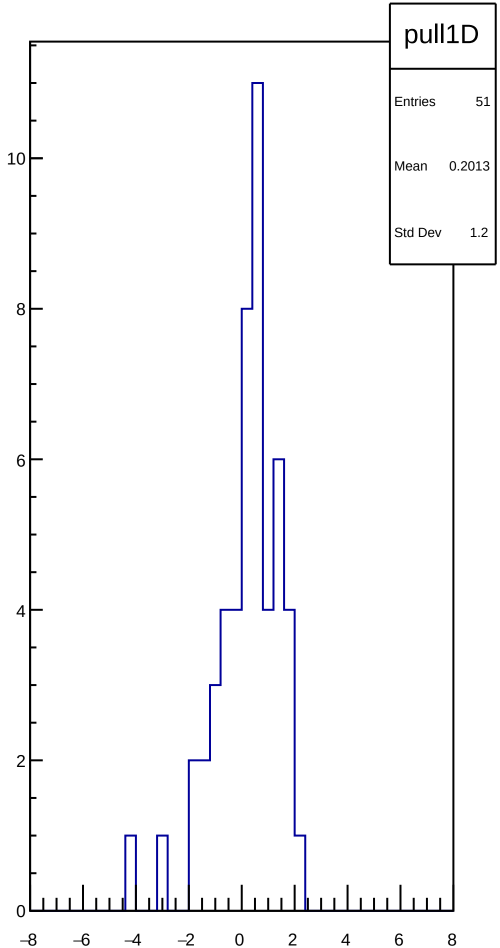
reg_asym_right_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 22.29 / 50
p0 5.477 ± 1.486
pull
Entries 51
Mean −14.37
Std Dev 31.75
pull1D
Entries 51
Mean −0.0676
Std Dev 0.6576



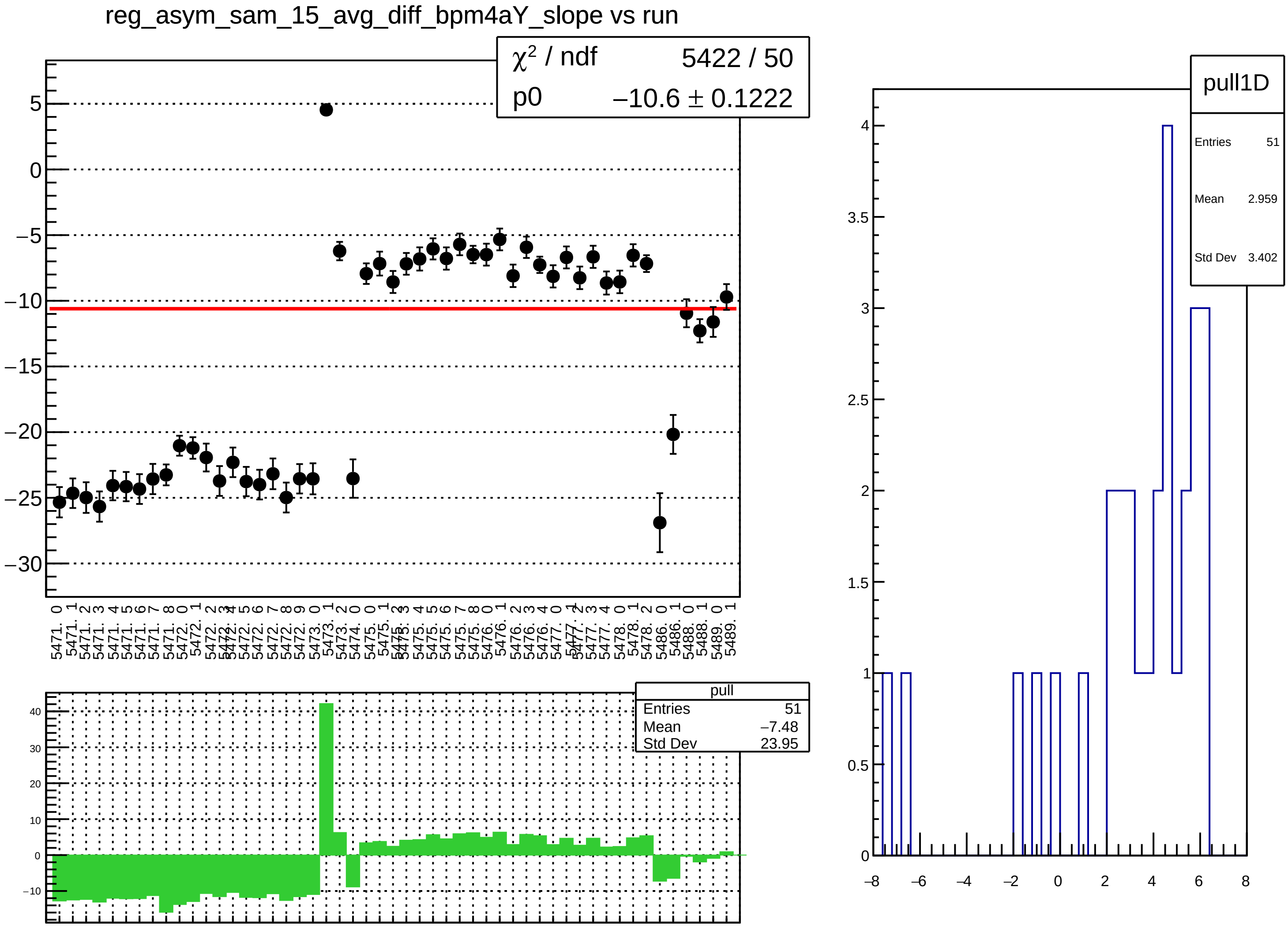
reg_asym_right_dd_diff_bpm12X_slope vs run
χ2 / ndf 203.7 / 50
p0 −19.29 ± 0.05237
pull
Entries 51
Mean −777.6
Std Dev 803.3
pull1D
Entries 51
Mean −0.01285
Std Dev 1.999



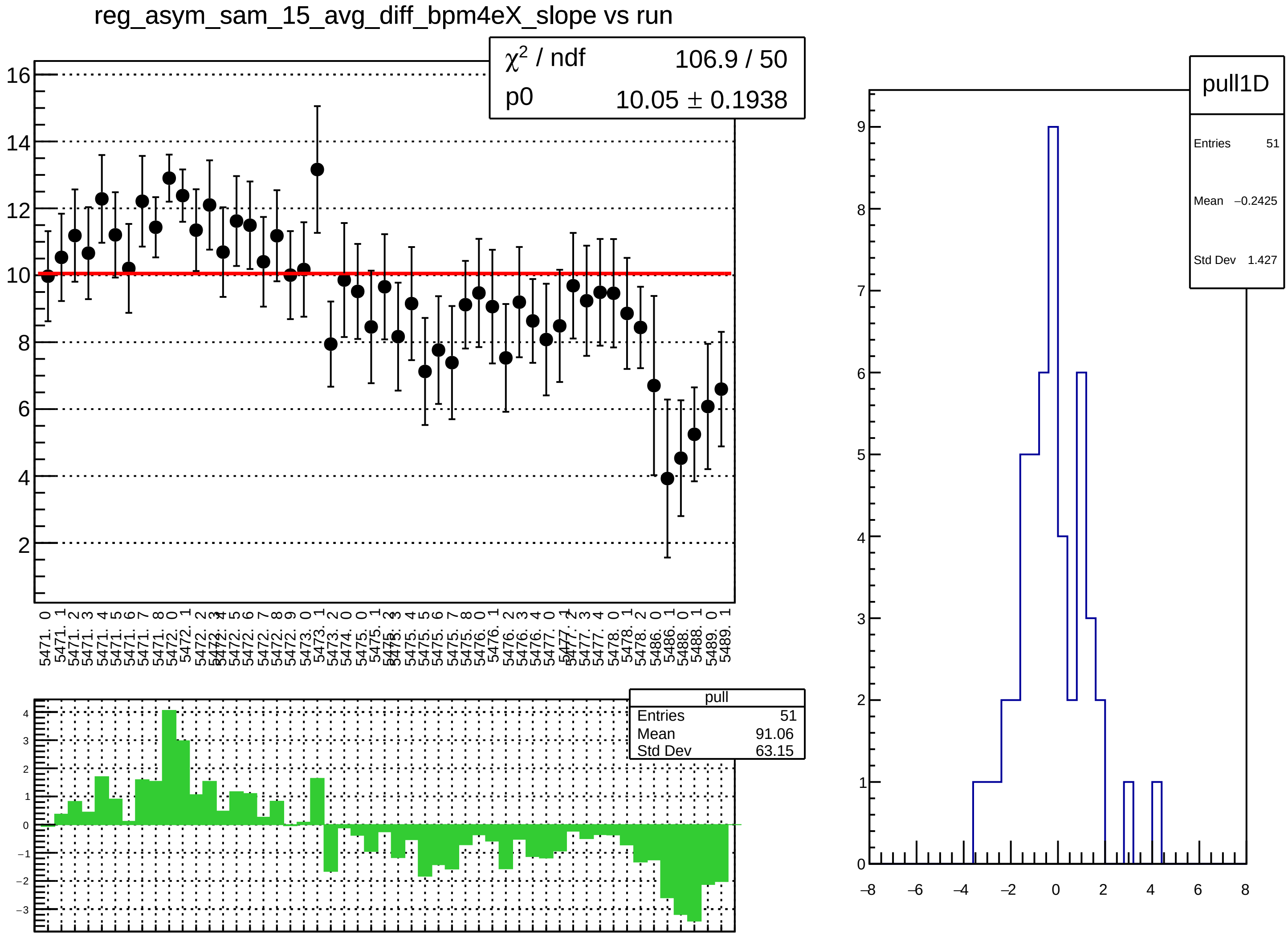
reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 75.48 / 50
p0 −9.249 ± 0.2001
pull
Entries 51
Mean 77.17
Std Dev 51.9



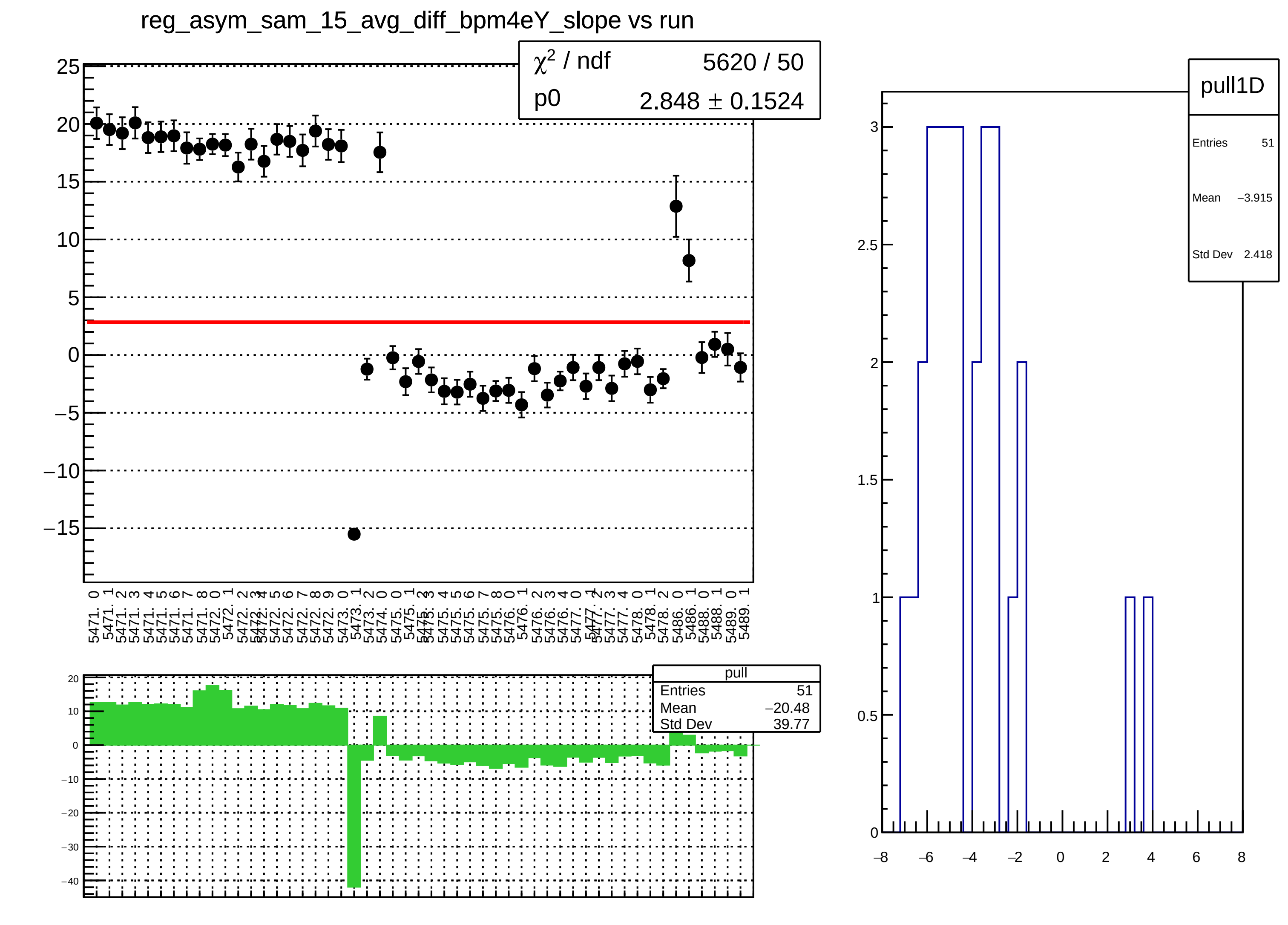
pull1D
Entries 51
Mean 0.2013
Std Dev 1.2



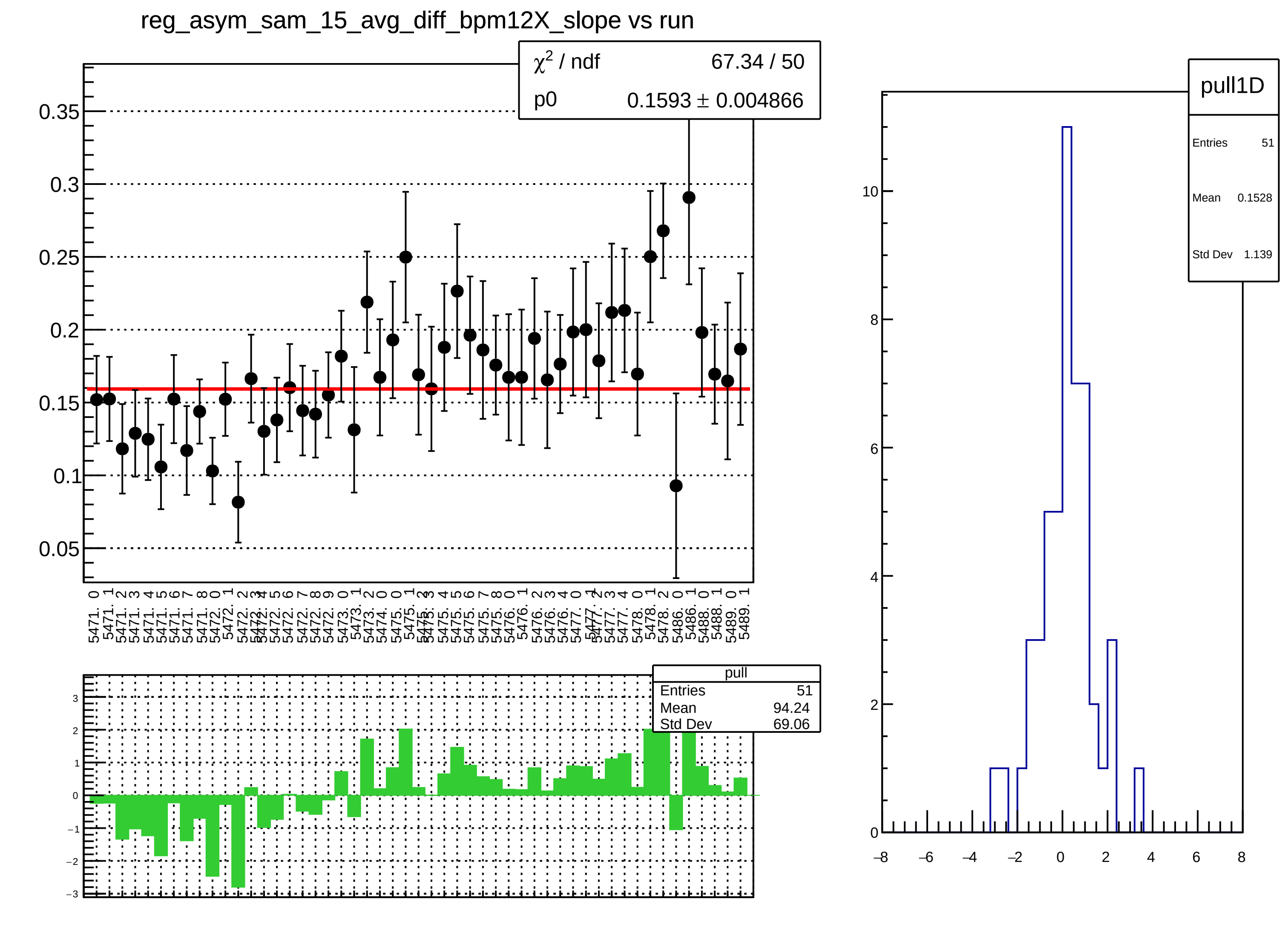
reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ2 / ndf 5422 / 50
p0 −10.6 ± 0.1222
pull
Entries 51
Mean −7.48
Std Dev 23.95
pull1D
Entries 51
Mean 2.959
Std Dev 3.402



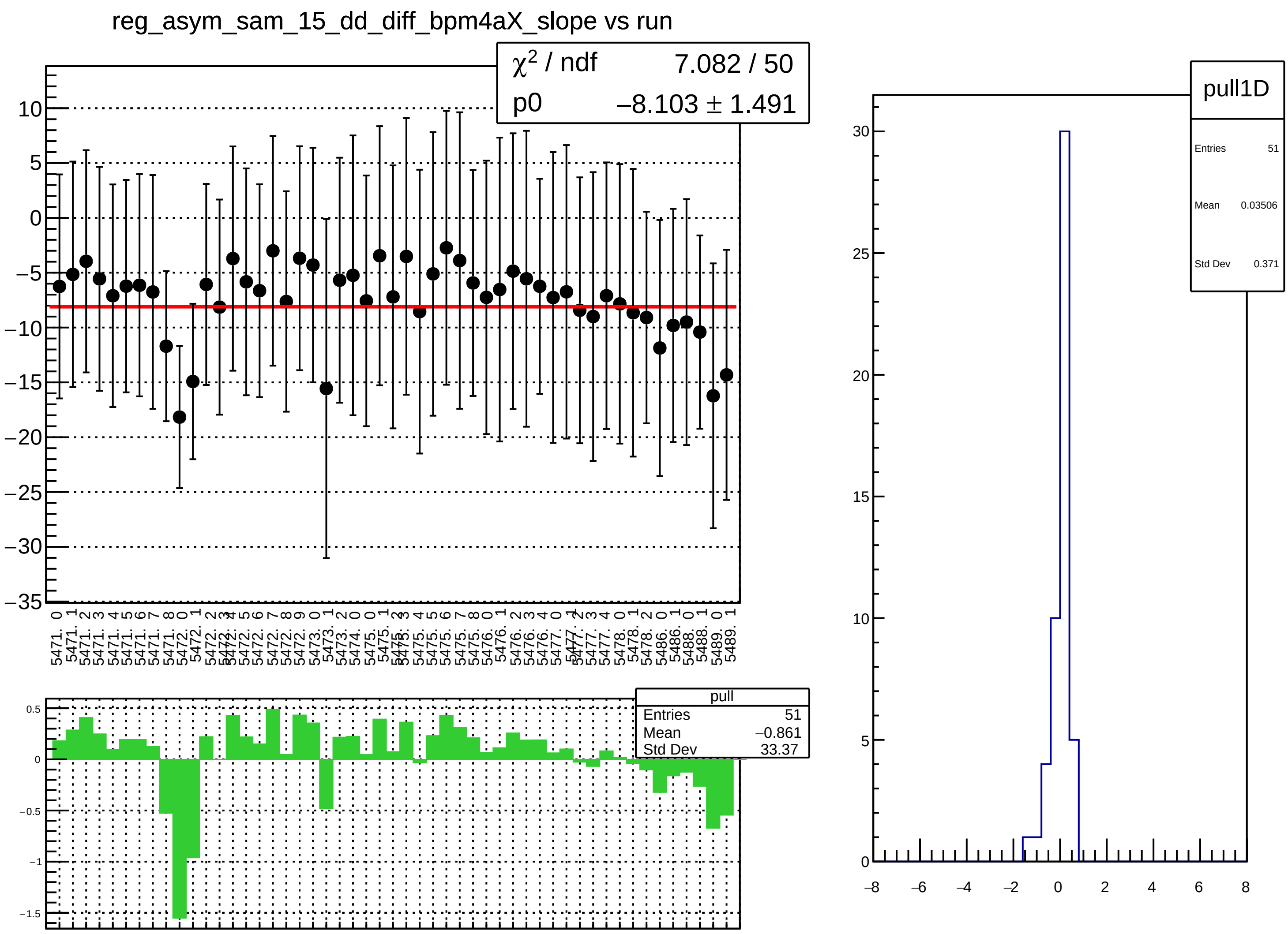
reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ2 / ndf 106.9 / 50
p0 10.05 ± 0.1938
pull
Entries 51
Mean 91.06
Std Dev 63.15
pull1D
Entries 51
Mean −0.2425
Std Dev 1.427



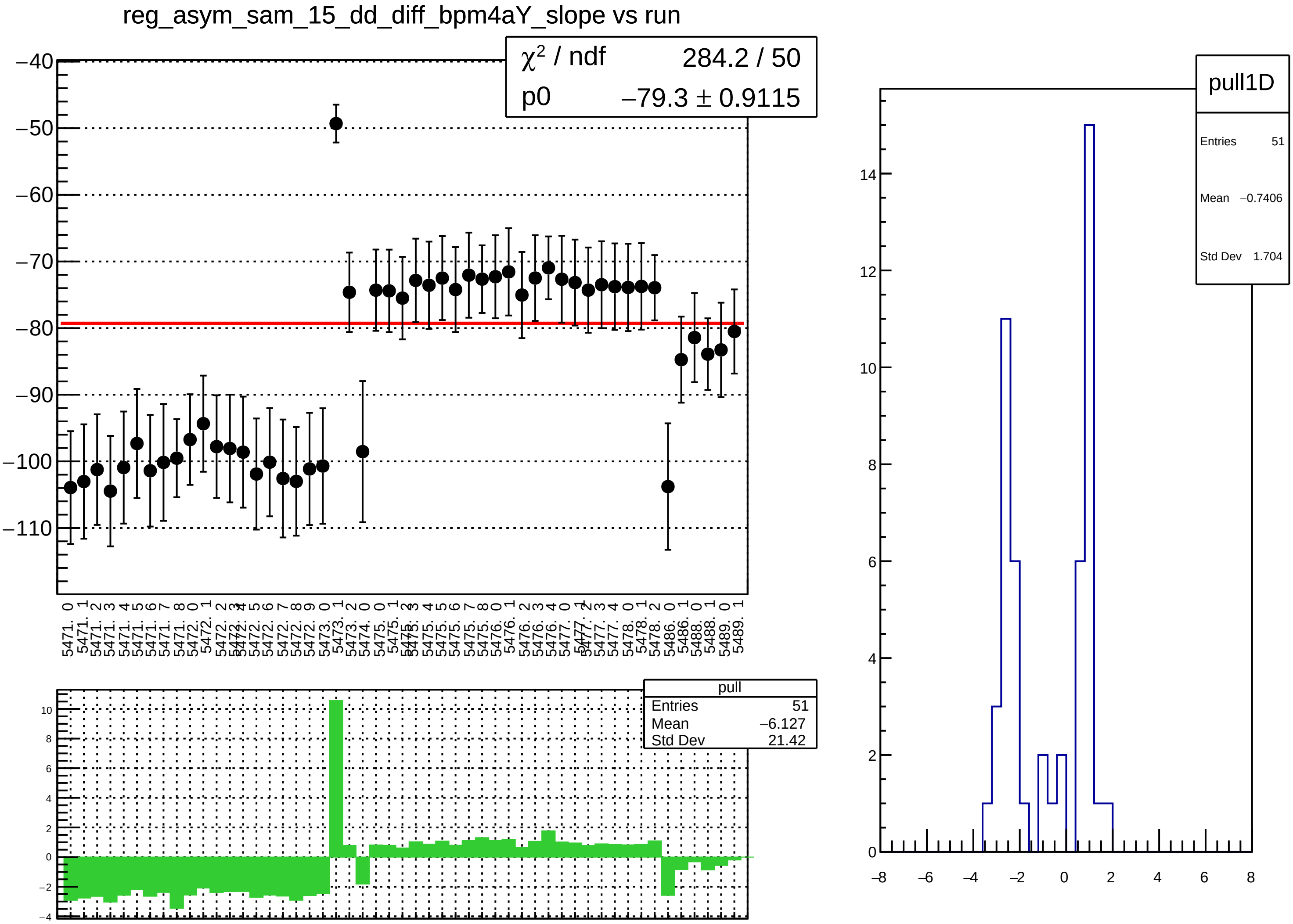
reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 5620 / 50
p0 2.848 ± 0.1524
pull
Entries 51
Mean −20.48
Std Dev 39.77
pull1D
Entries 51
Mean −3.915
Std Dev 2.418



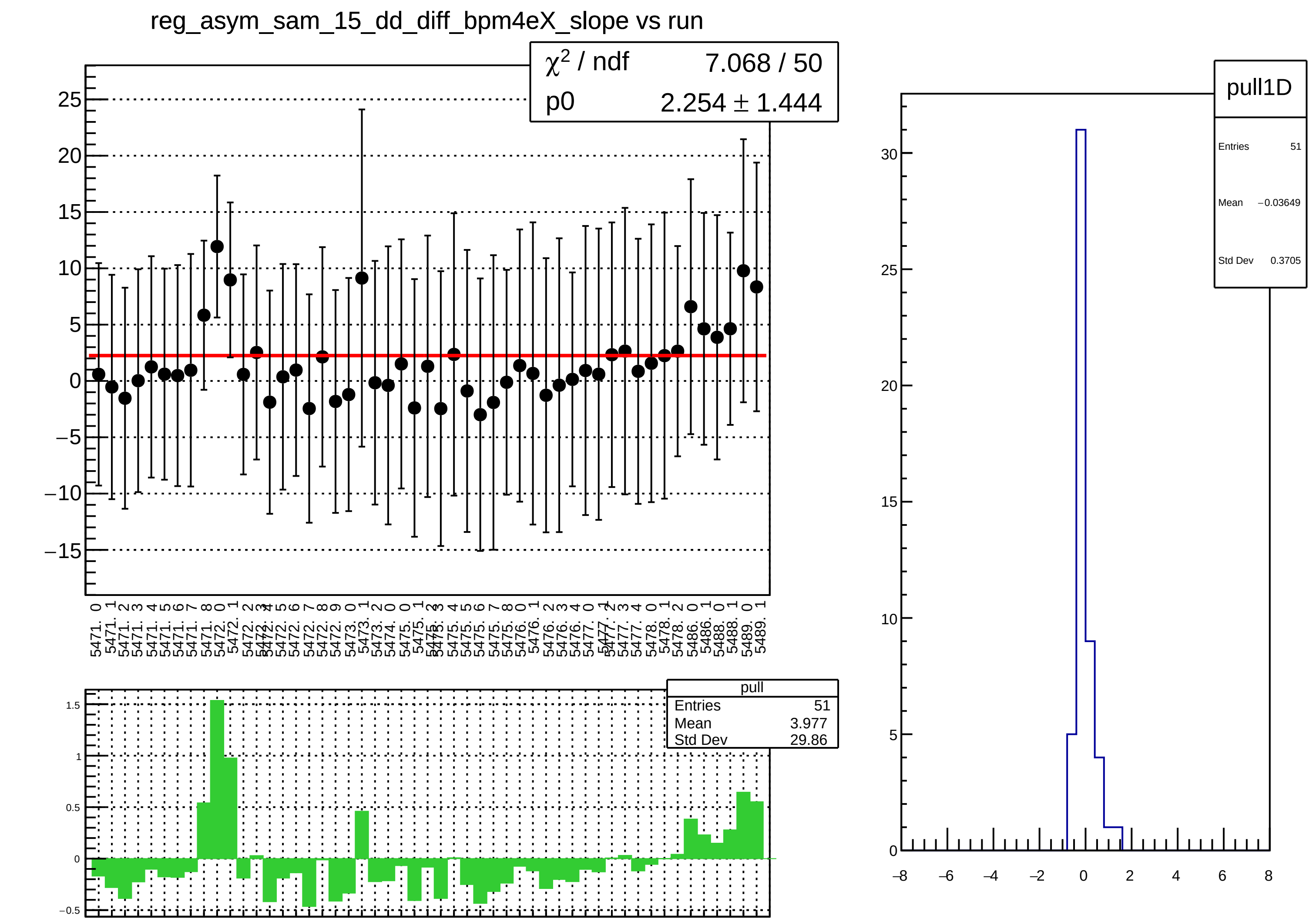
reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ^2 / ndf 67.34 / 50
p0 0.1593 ± 0.004866
pull
Entries 51
Mean 94.24
Std Dev 69.06
pull1D
Entries 51
Mean 0.1528
Std Dev 1.139



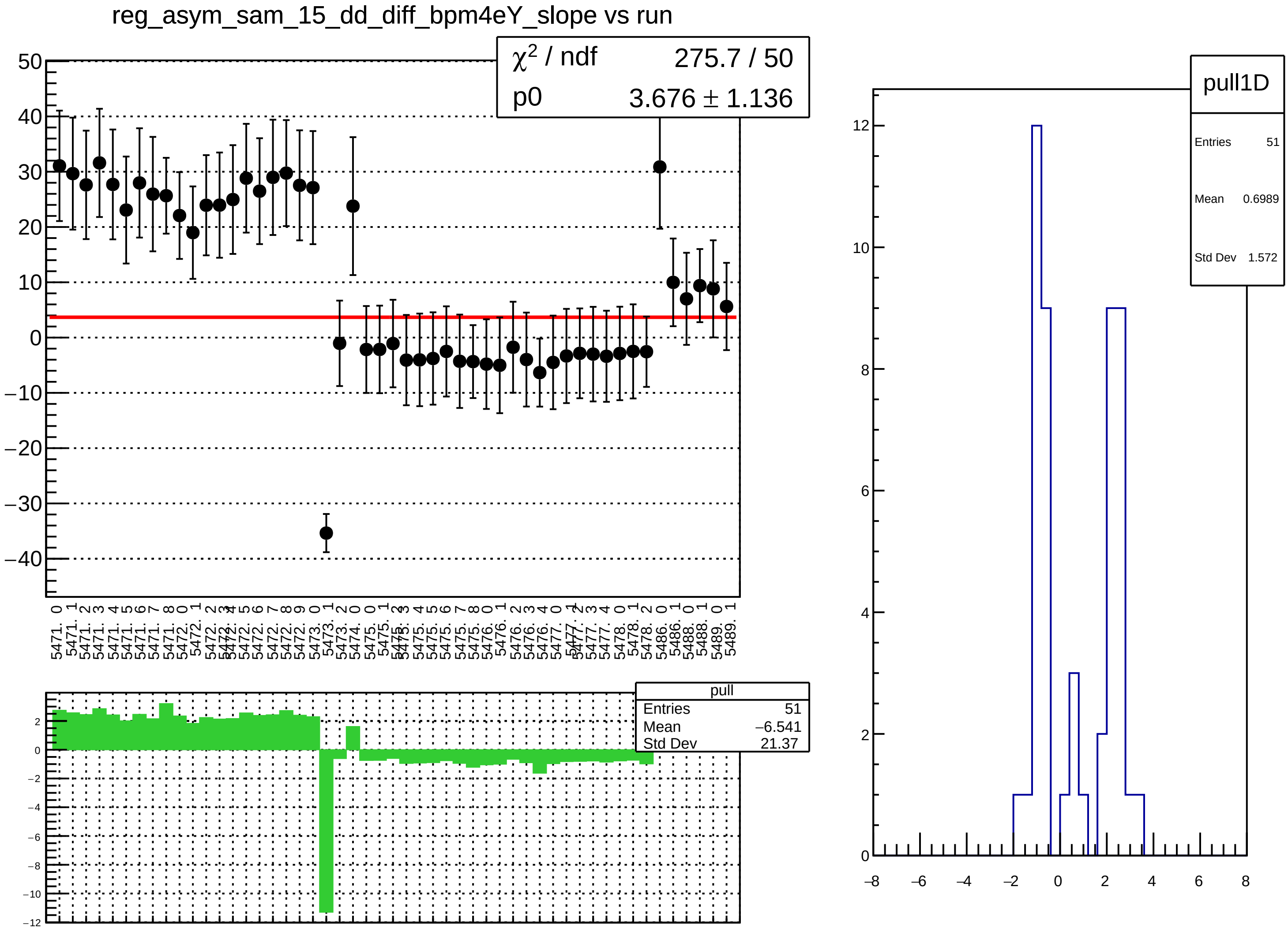
reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 7.082 / 50
p0 −8.103 ± 1.491
pull
Entries 51
Mean −0.861
Std Dev 33.37
pull1D
Entries 51
Mean 0.03506
Std Dev 0.371



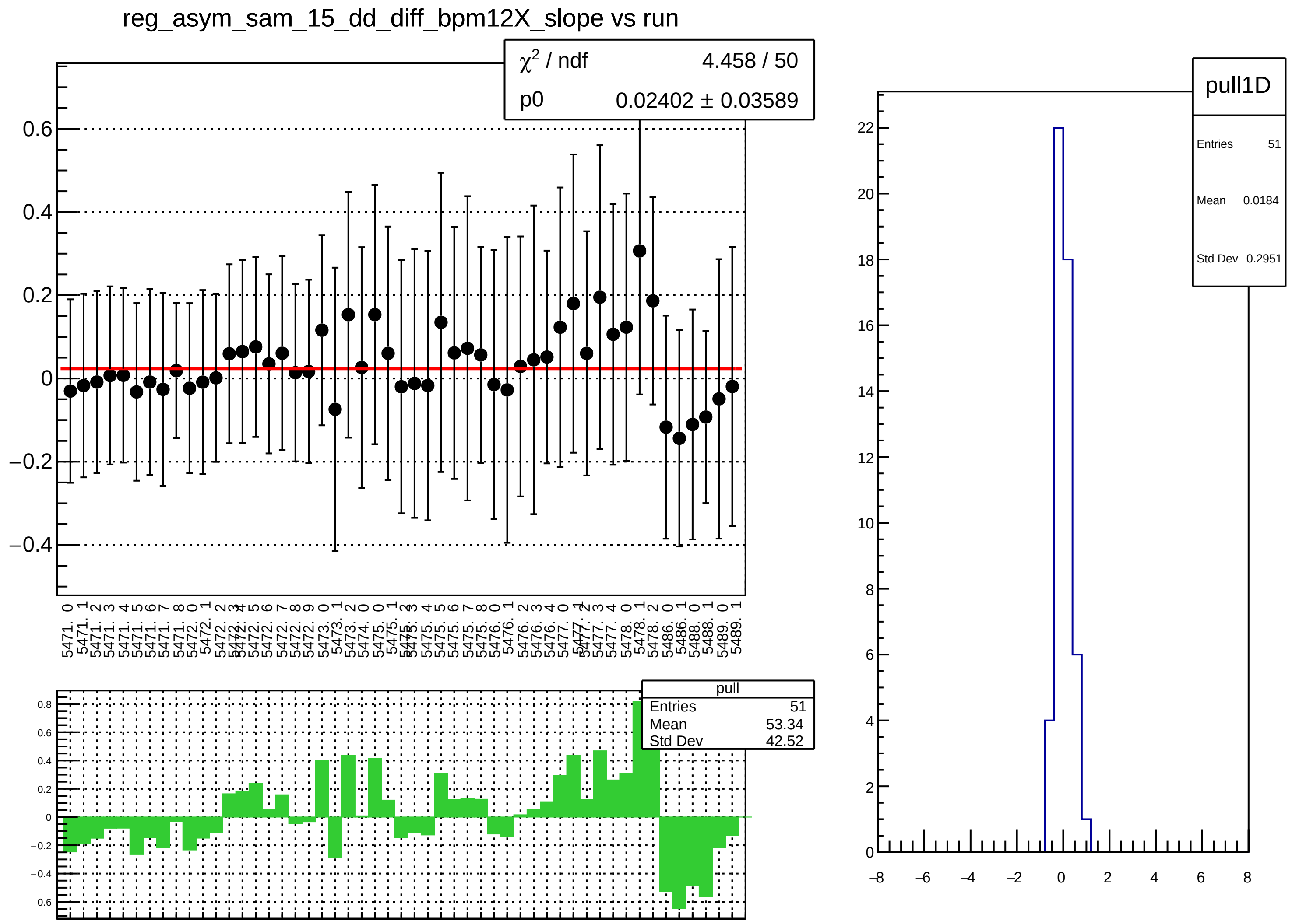
reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 284.2 / 50
p0 −79.3 ± 0.9115
pull
Entries 51
Mean −6.127
Std Dev 21.42
pull1D
Entries 51
Mean −0.7406
Std Dev 1.704



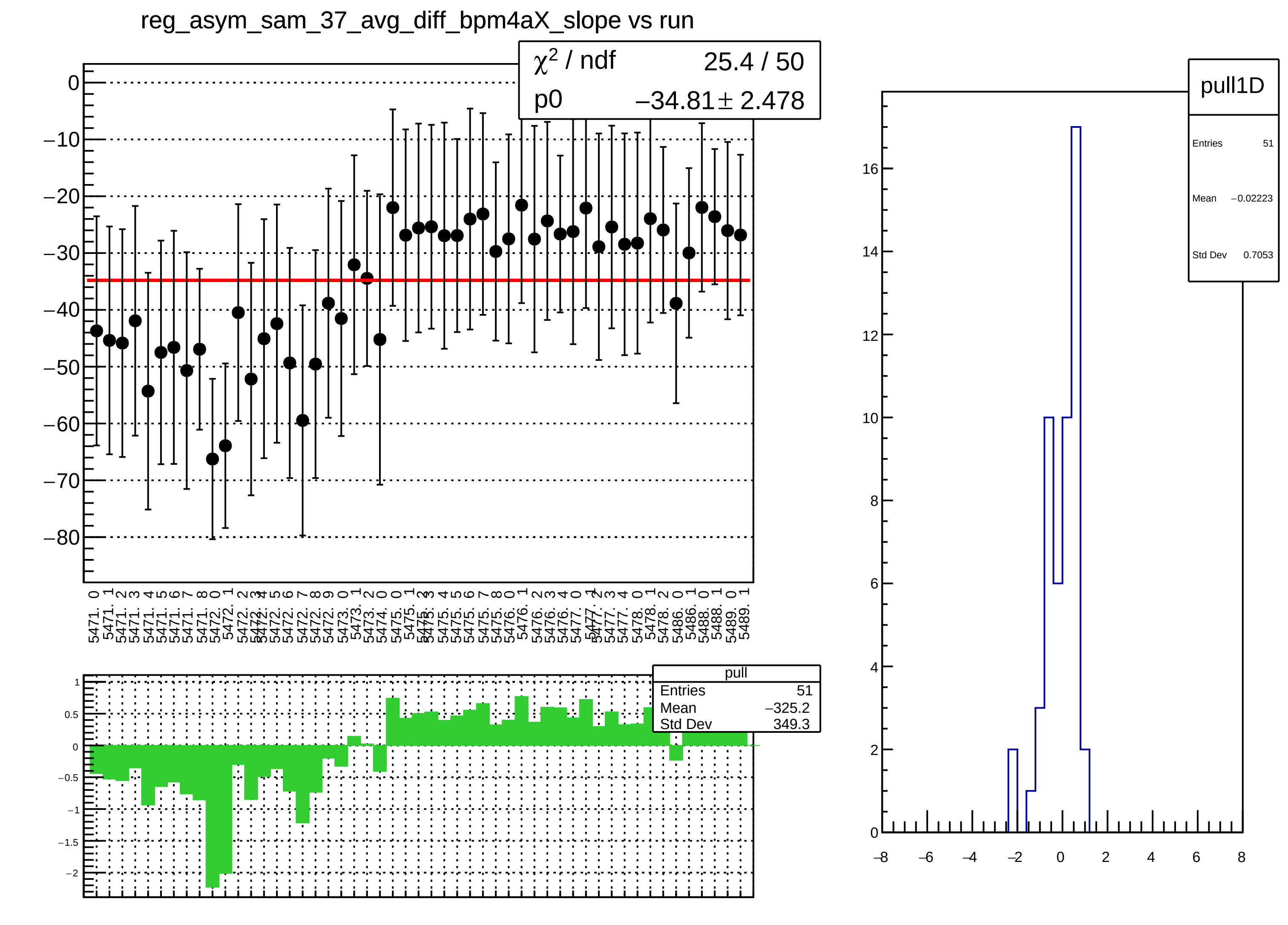
reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ2 / ndf 7.068 / 50
p0 2.254 ± 1.444
pull
Entries 51
Mean 3.977
Std Dev 29.86
pull1D
Entries 51
Mean −0.03649
Std Dev 0.3705

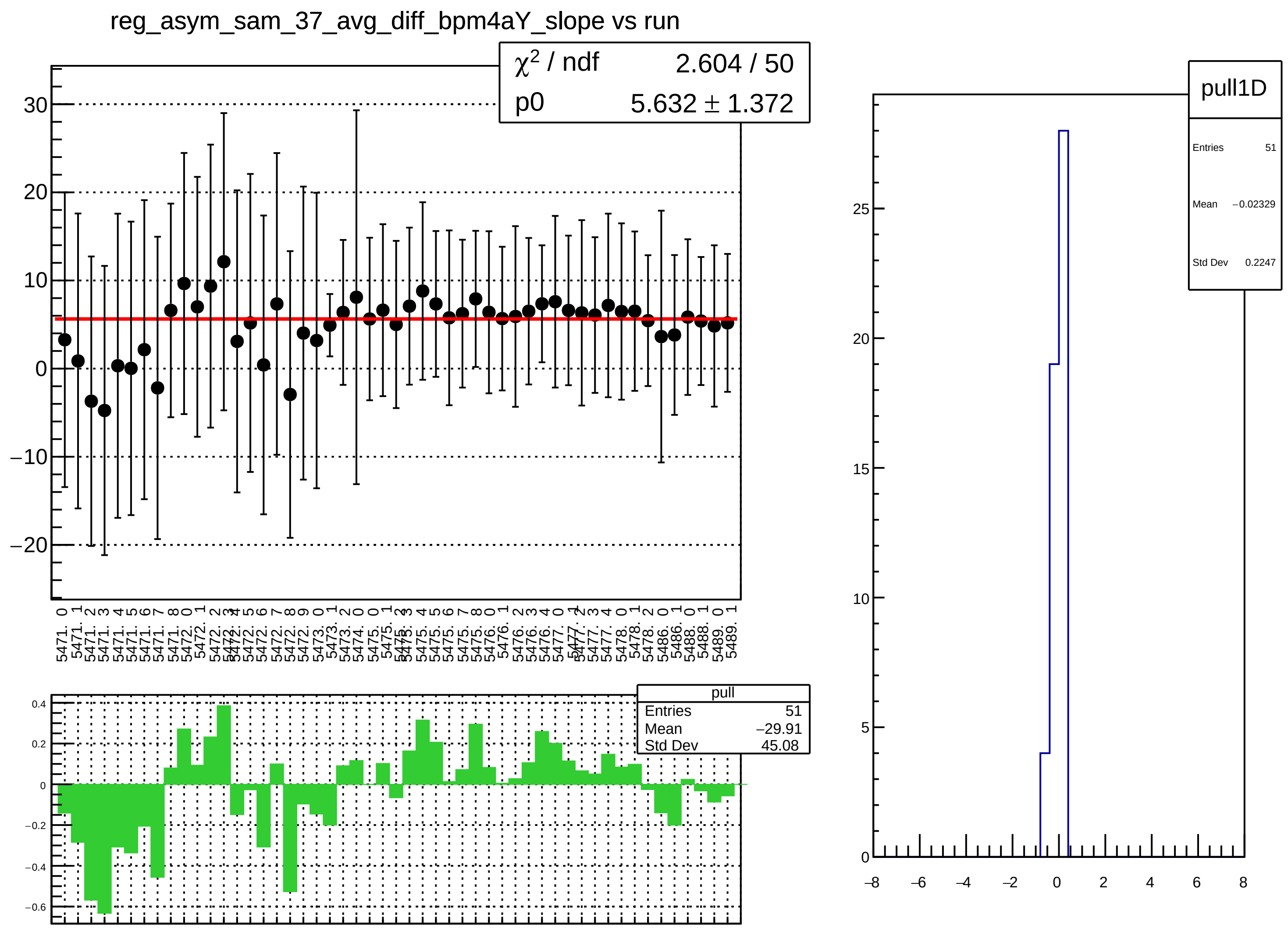


reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 275.7 / 50
p0 3.676 ± 1.136
pull
Entries 51
Mean −6.541
Std Dev 21.37
pull1D
Entries 51
Mean 0.6989
Std Dev 1.572

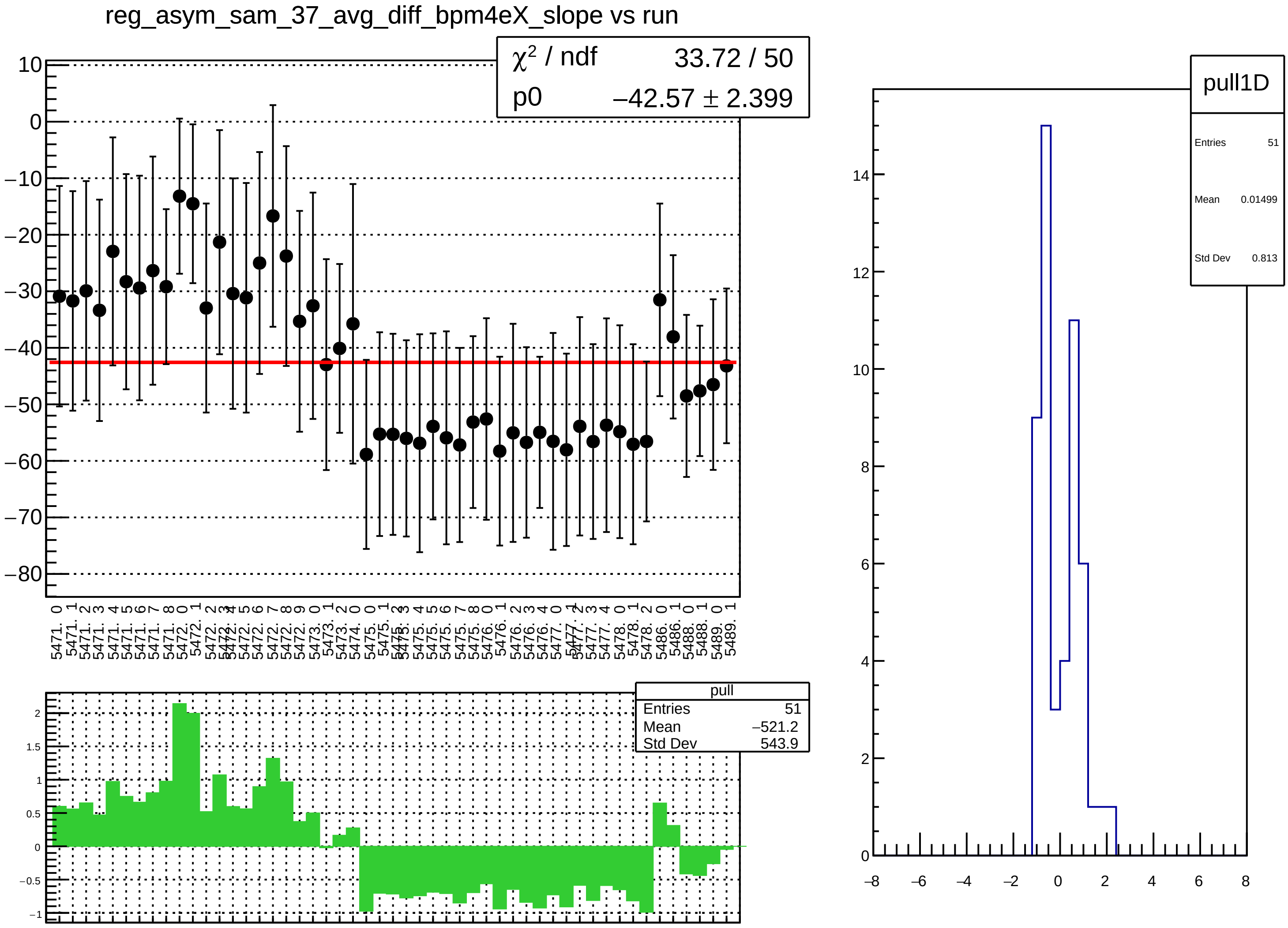


reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ2 / ndf 4.458 / 50
p0 0.02402 ± 0.03589
pull
Entries 51
Mean 53.34
Std Dev 42.52
pull1D
Entries 51
Mean 0.0184
Std Dev 0.2951

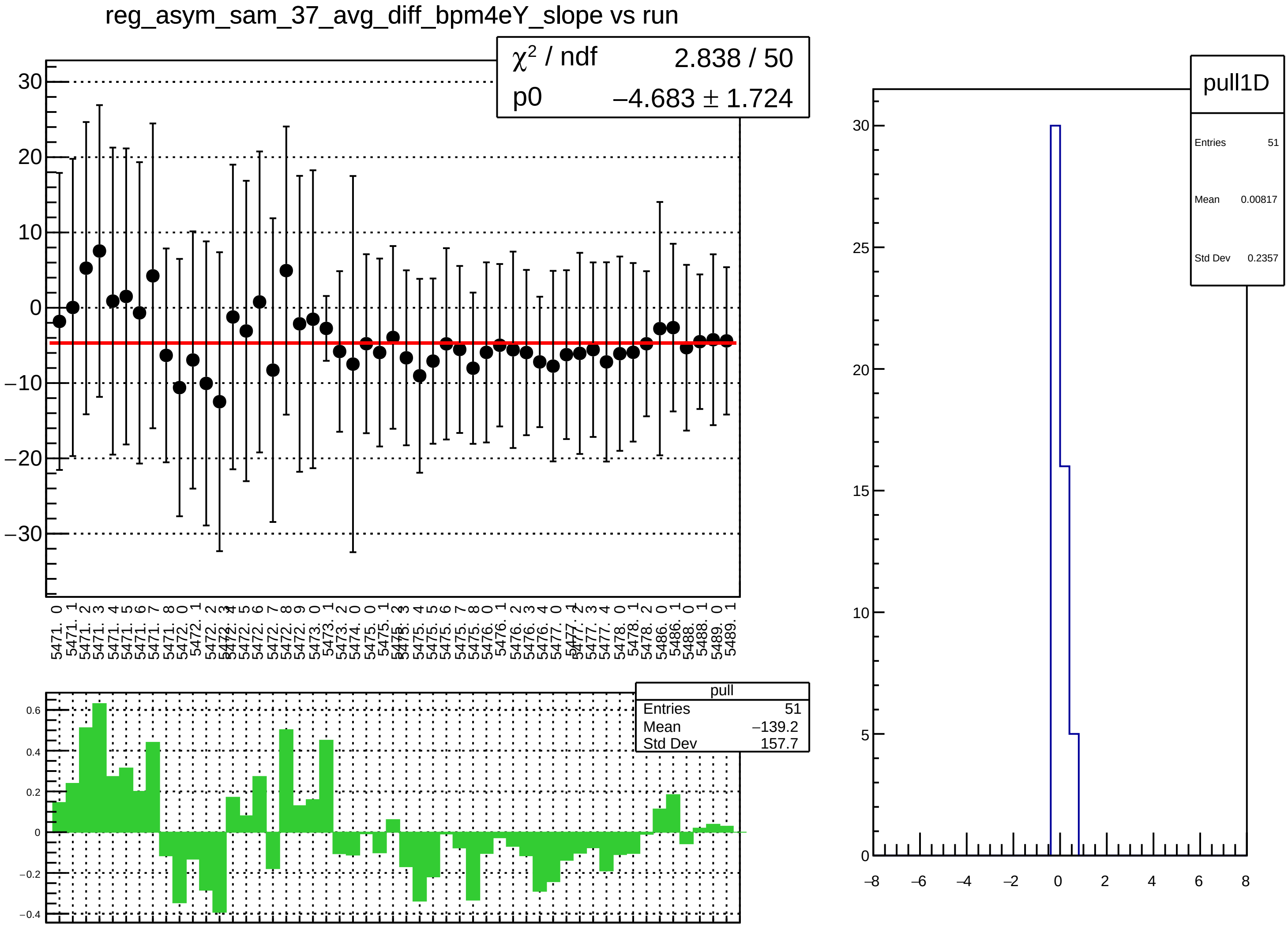

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 25.4 / 50
p0 −34.81 ± 2.478
pull
Entries 51
Mean −325.2
Std Dev 349.3
pull1D
Entries 51
Mean −0.02223
Std Dev 0.7053



reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 2.604 / 50
p0 5.632 ± 1.372
pull
Entries 51
Mean −29.91
Std Dev 45.08
pull1D
Entries 51
Mean −0.02329
Std Dev 0.2247

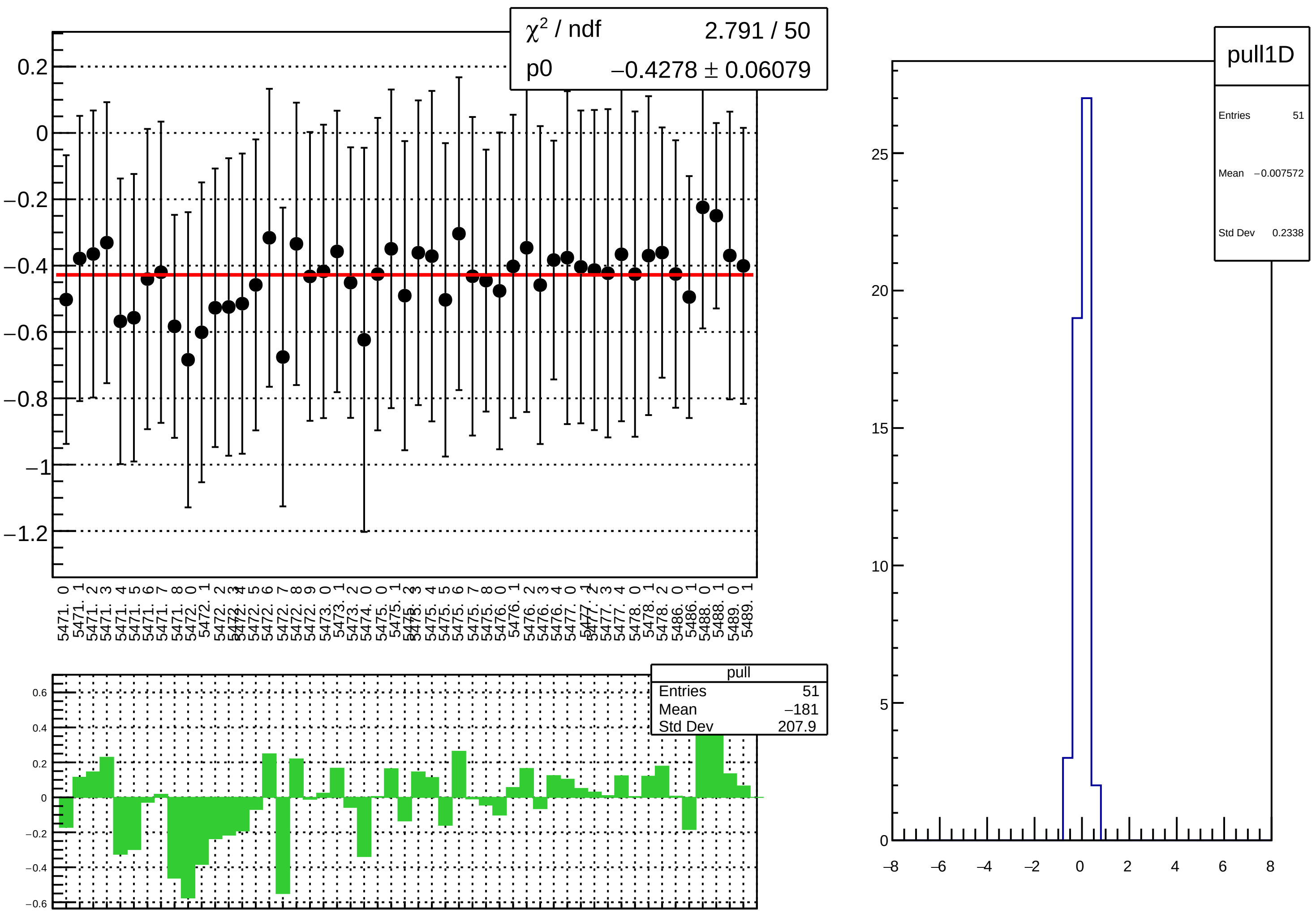


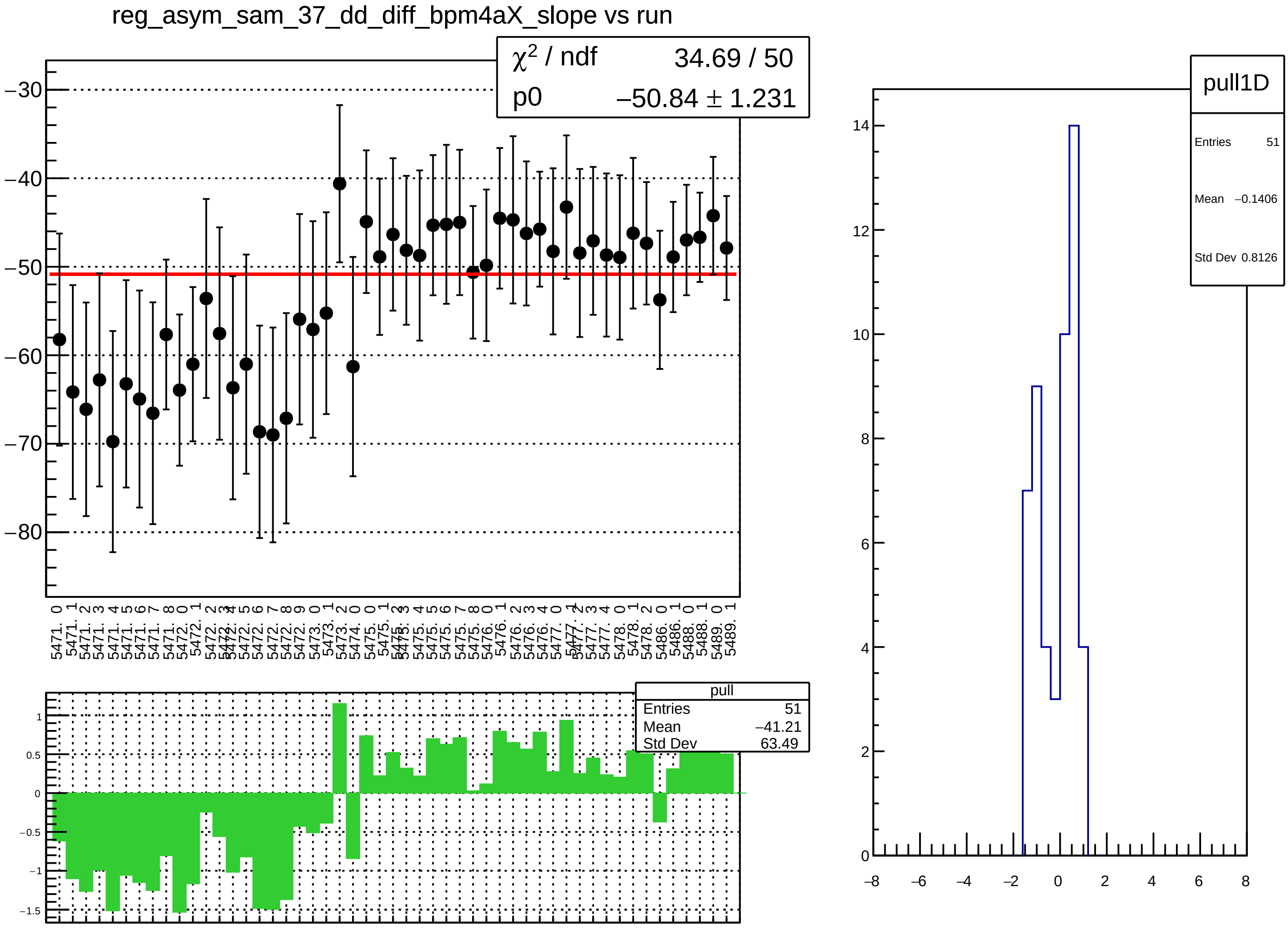
reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 33.72 / 50
p0 −42.57 ± 2.399
10
0
−10
−20
−30
−40
−50
−60
−70
−80
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean −521.2
Std Dev 543.9
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 51
Mean 0.01499
Std Dev 0.813
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



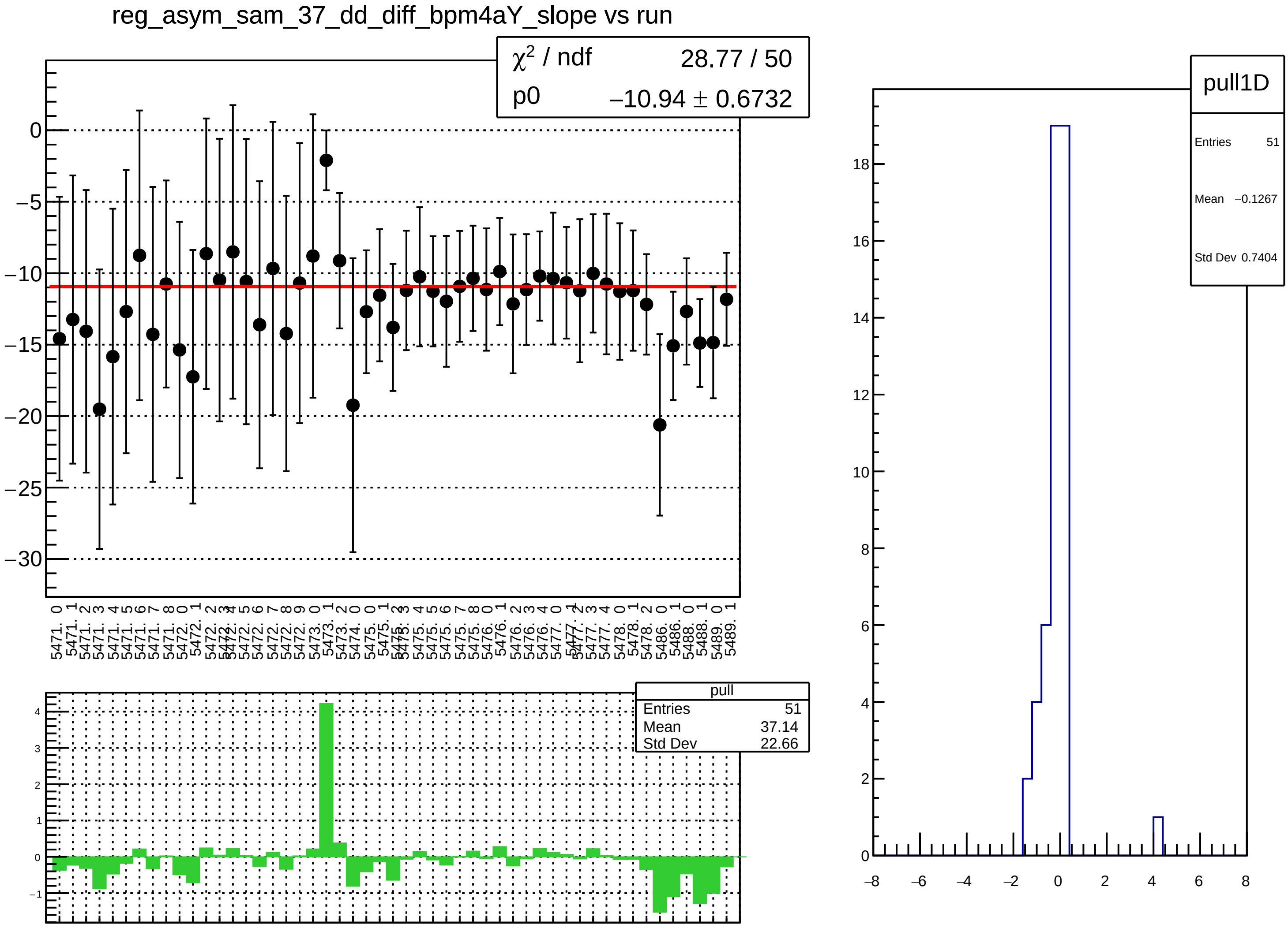
reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ2 / ndf 2.838 / 50
p0 −4.683 ± 1.724
pull
Entries 51
Mean −139.2
Std Dev 157.7
pull1D
Entries 51
Mean 0.00817
Std Dev 0.2357

reg_asym_sam_37_avg_diff_bpm12X_slope vs run

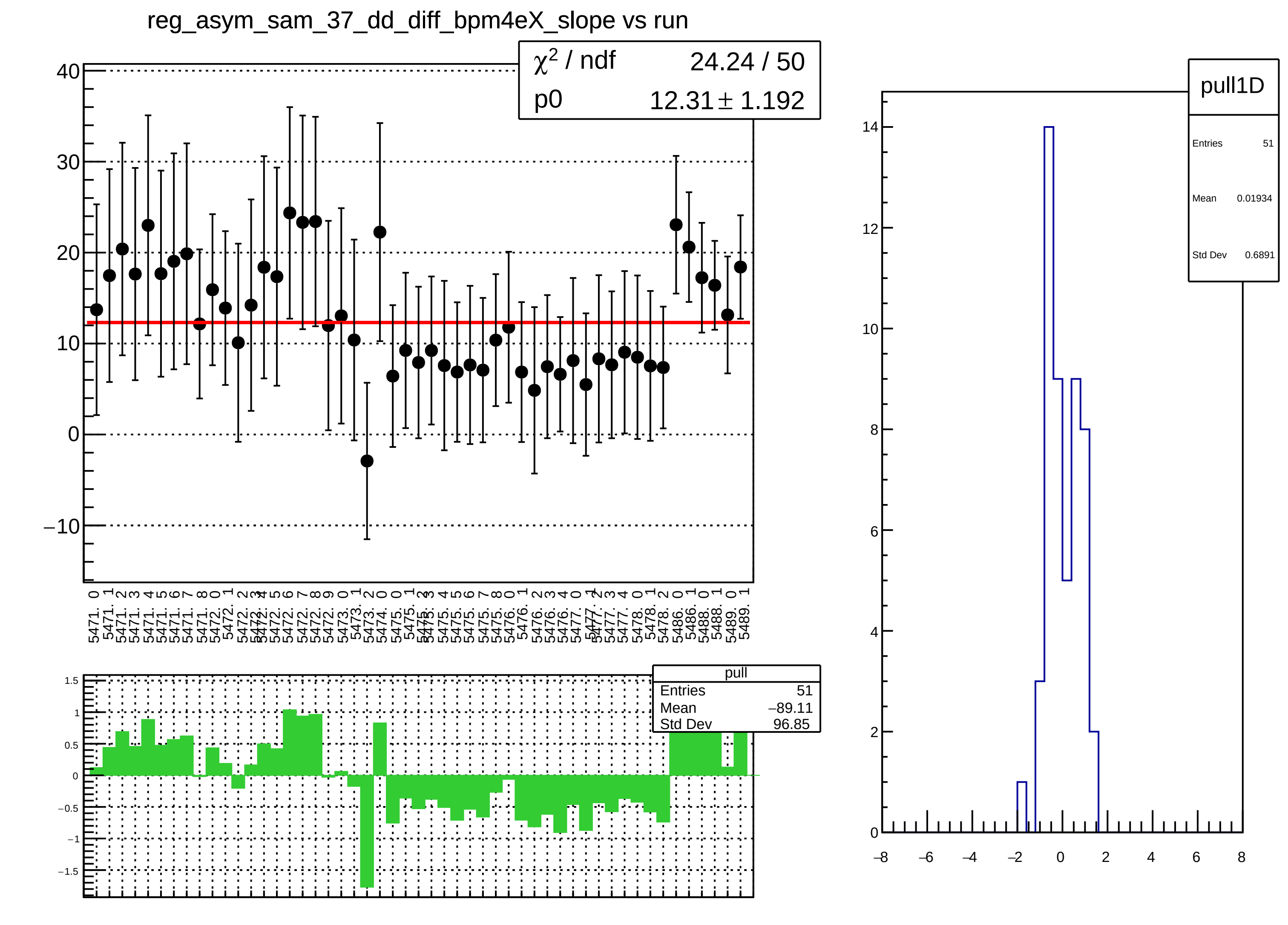




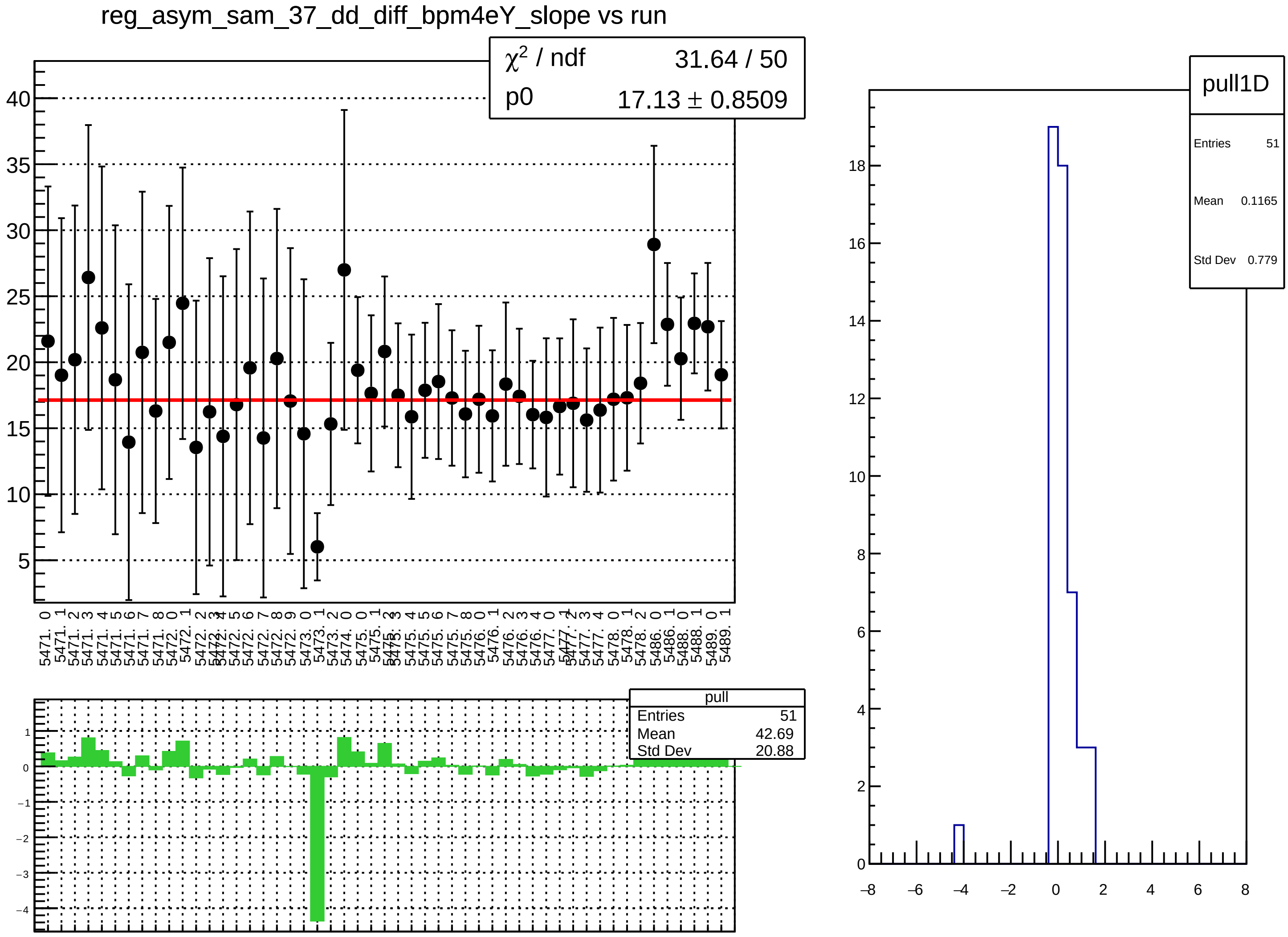
reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ2 / ndf 34.69 / 50
p0 −50.84 ± 1.231
pull
Entries 51
Mean −41.21
Std Dev 63.49
pull1D
Entries 51
Mean −0.1406
Std Dev 0.8126



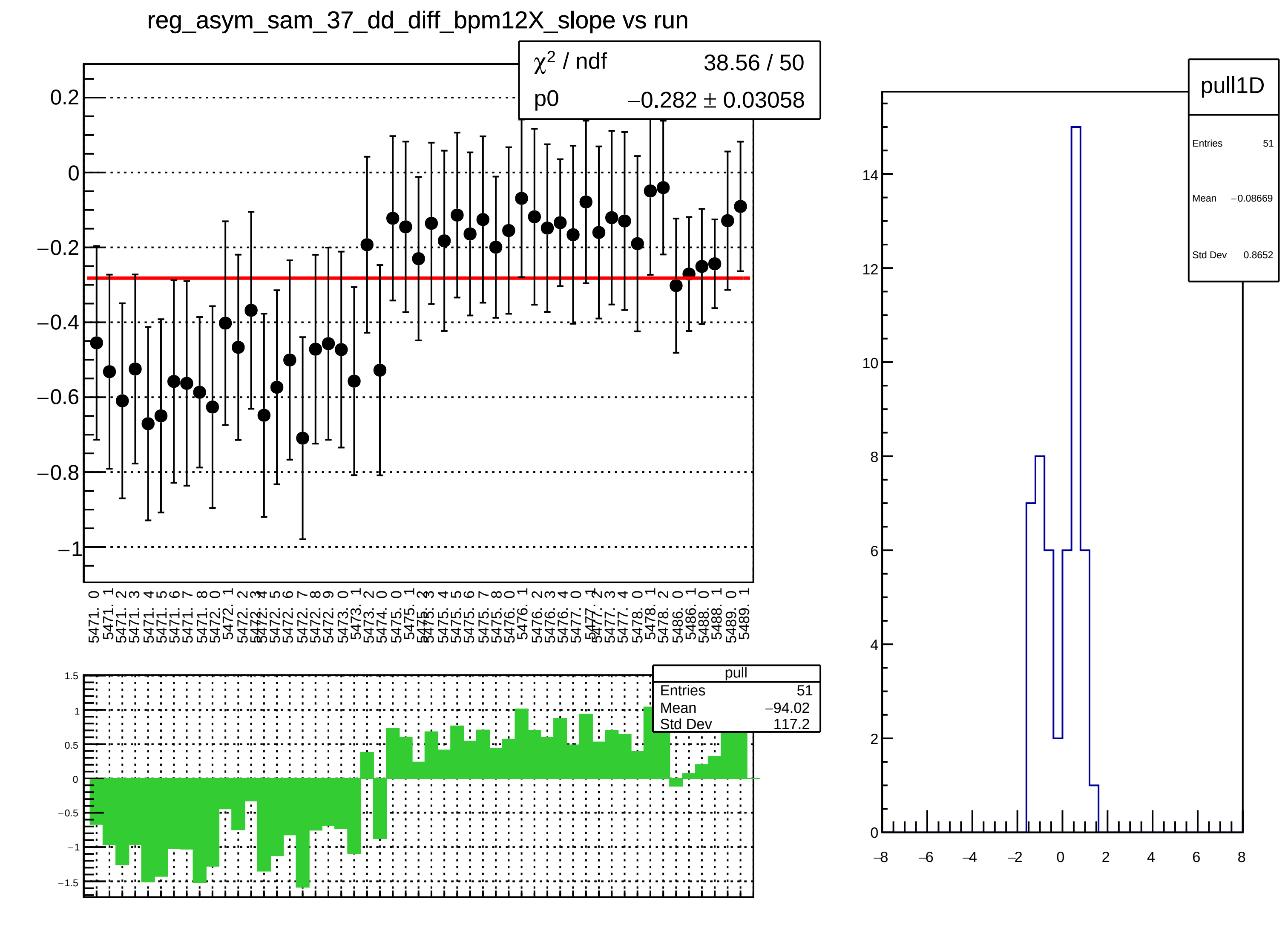
reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ2 / ndf 28.77 / 50
p0 −10.94 ± 0.6732
pull
Entries 51
Mean 37.14
Std Dev 22.66
pull1D
Entries 51
Mean −0.1267
Std Dev 0.7404



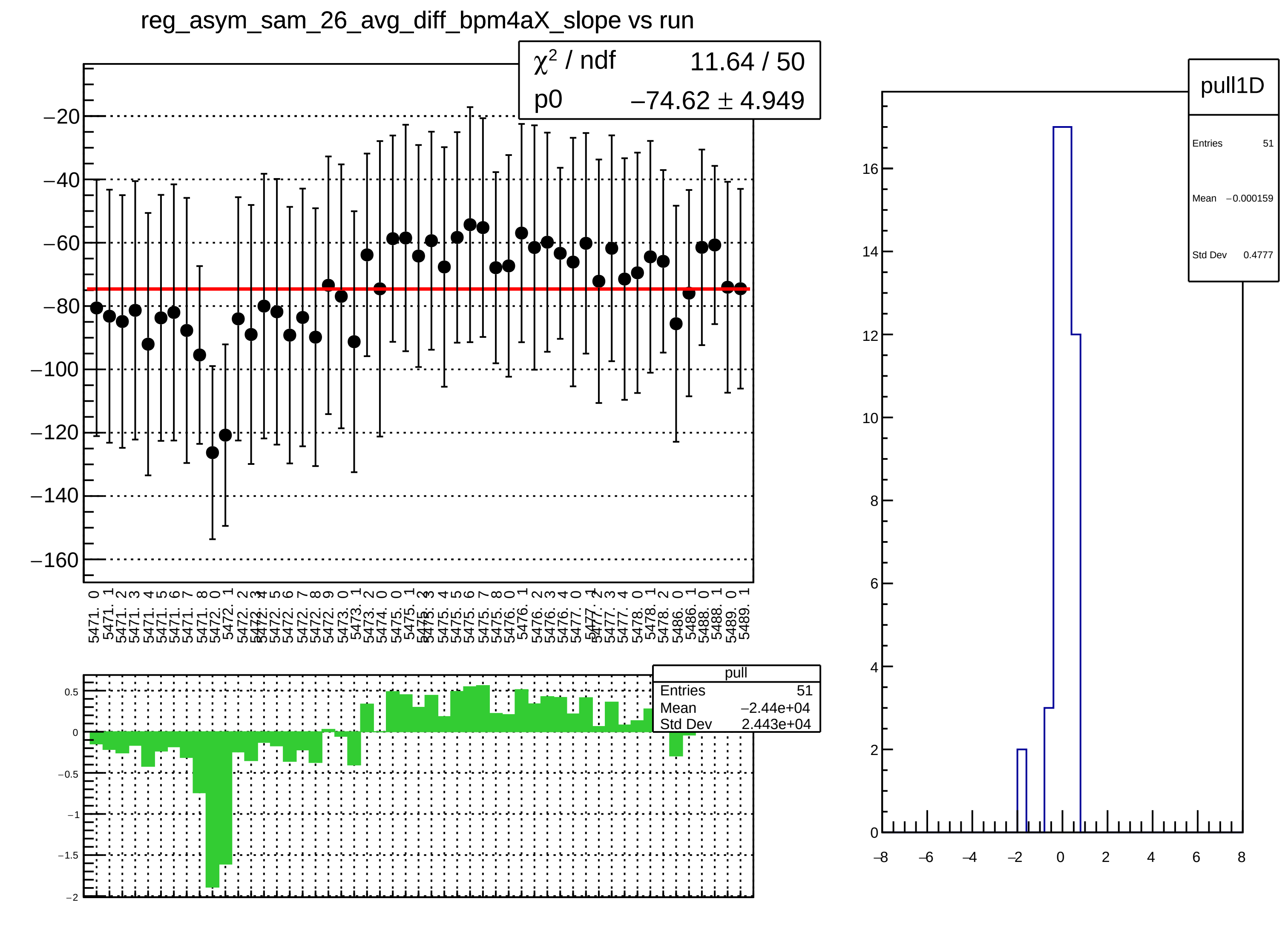
reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 24.24 / 50
p0 12.31 ± 1.192
pull
Entries 51
Mean −89.11
Std Dev 96.85
pull1D
Entries 51
Mean 0.01934
Std Dev 0.6891



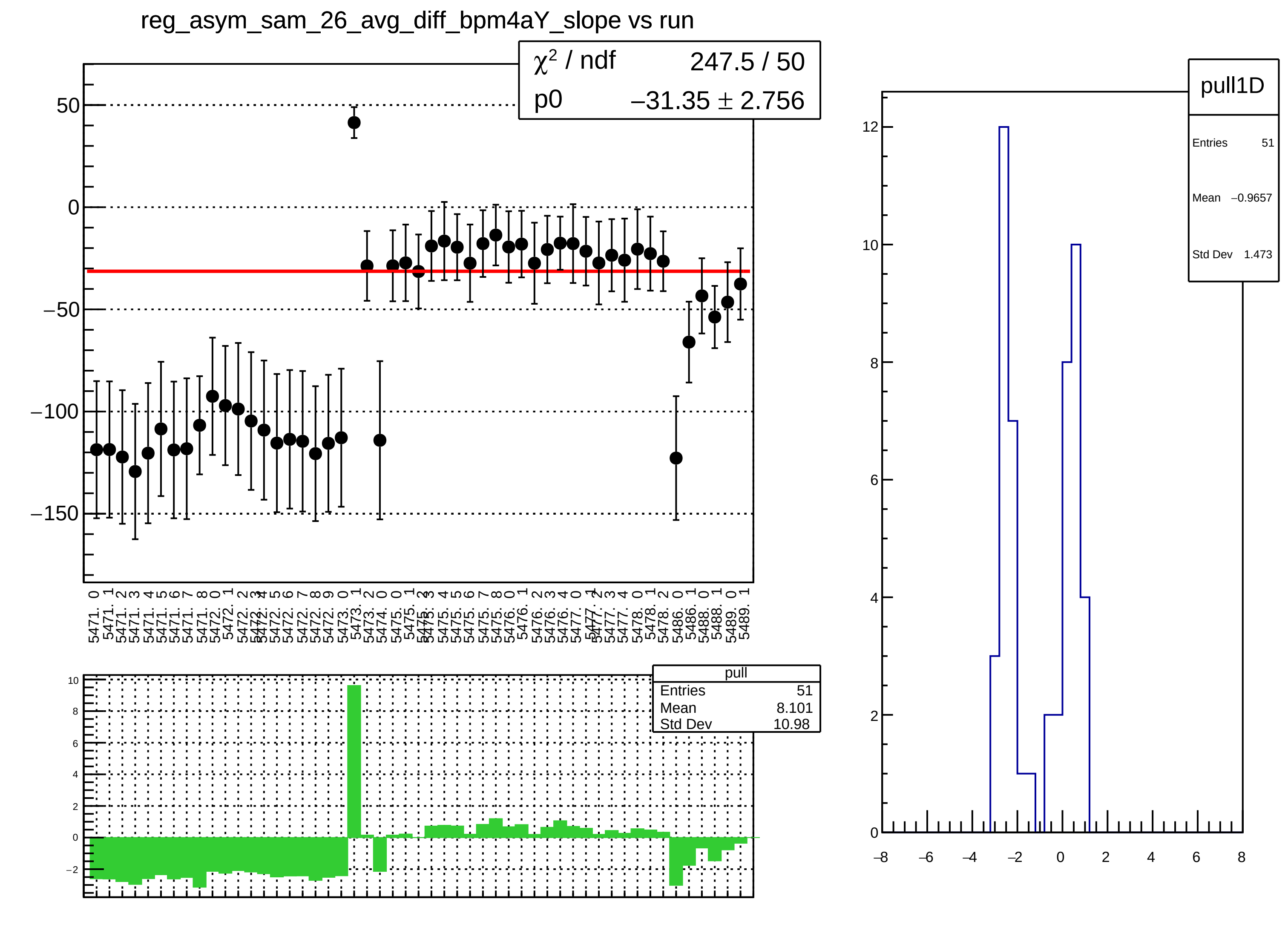
reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 31.64 / 50
p0 17.13 ± 0.8509
pull
Entries 51
Mean 42.69
Std Dev 20.88
pull1D
Entries 51
Mean 0.1165
Std Dev 0.779



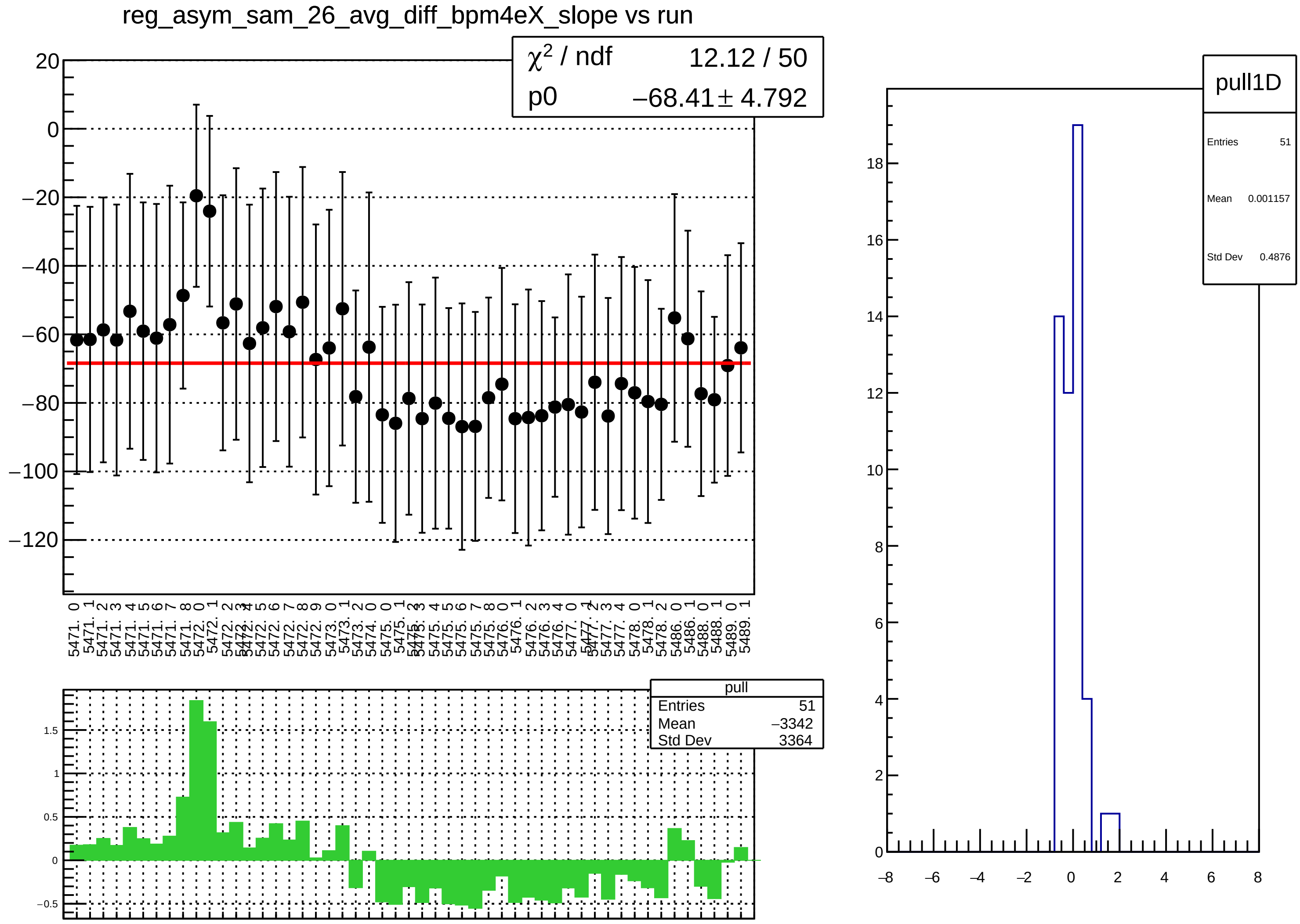
reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ^2 / ndf 38.56 / 50
p0 −0.282 ± 0.03058
pull
Entries 51
Mean −94.02
Std Dev 117.2
pull1D
Entries 51
Mean −0.08669
Std Dev 0.8652



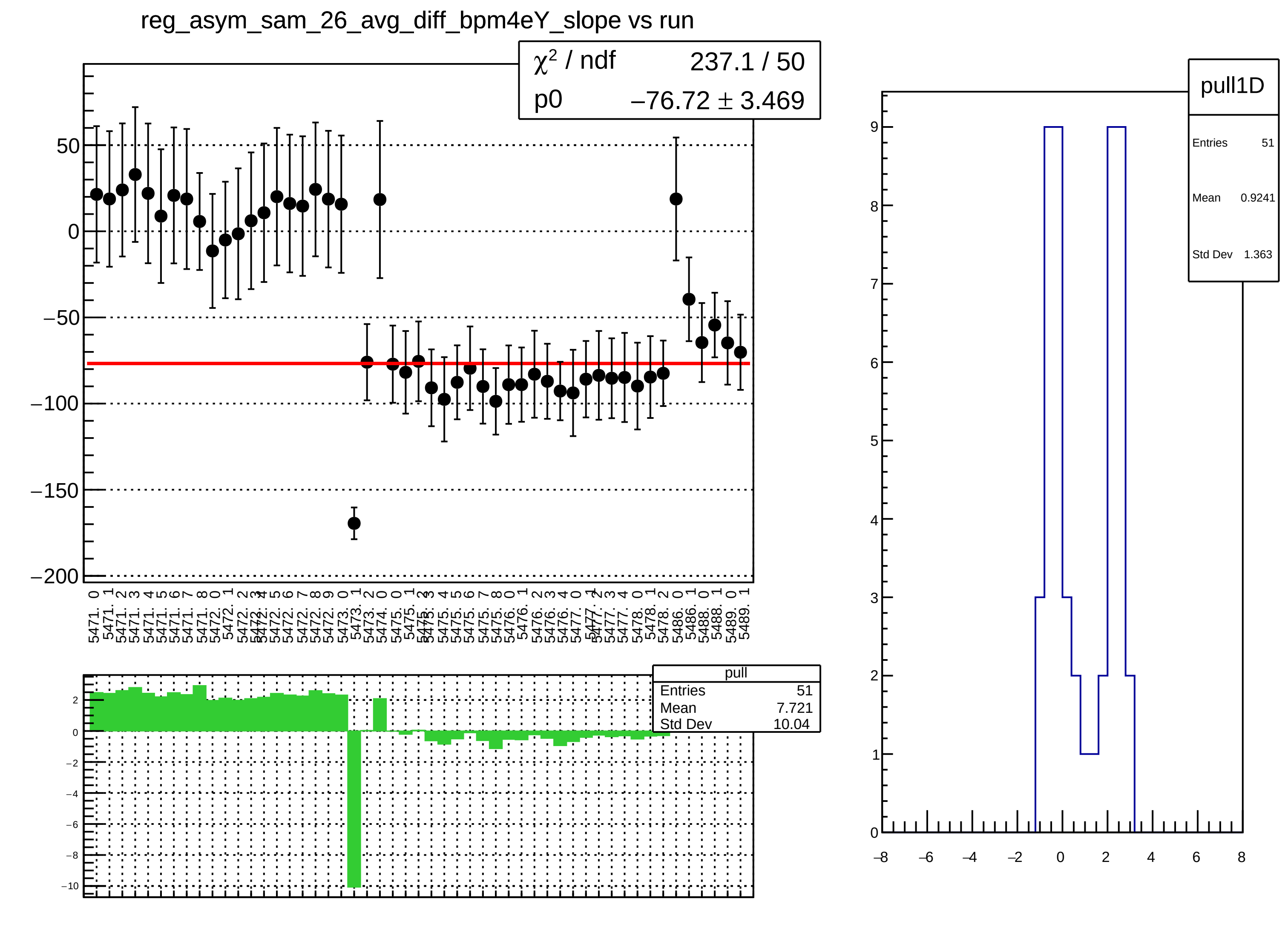
reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 11.64 / 50
p0 −74.62 ± 4.949
pull
Entries 51
Mean −2.44e+04
Std Dev 2.443e+04
pull1D
Entries 51
Mean −0.000159
Std Dev 0.4777



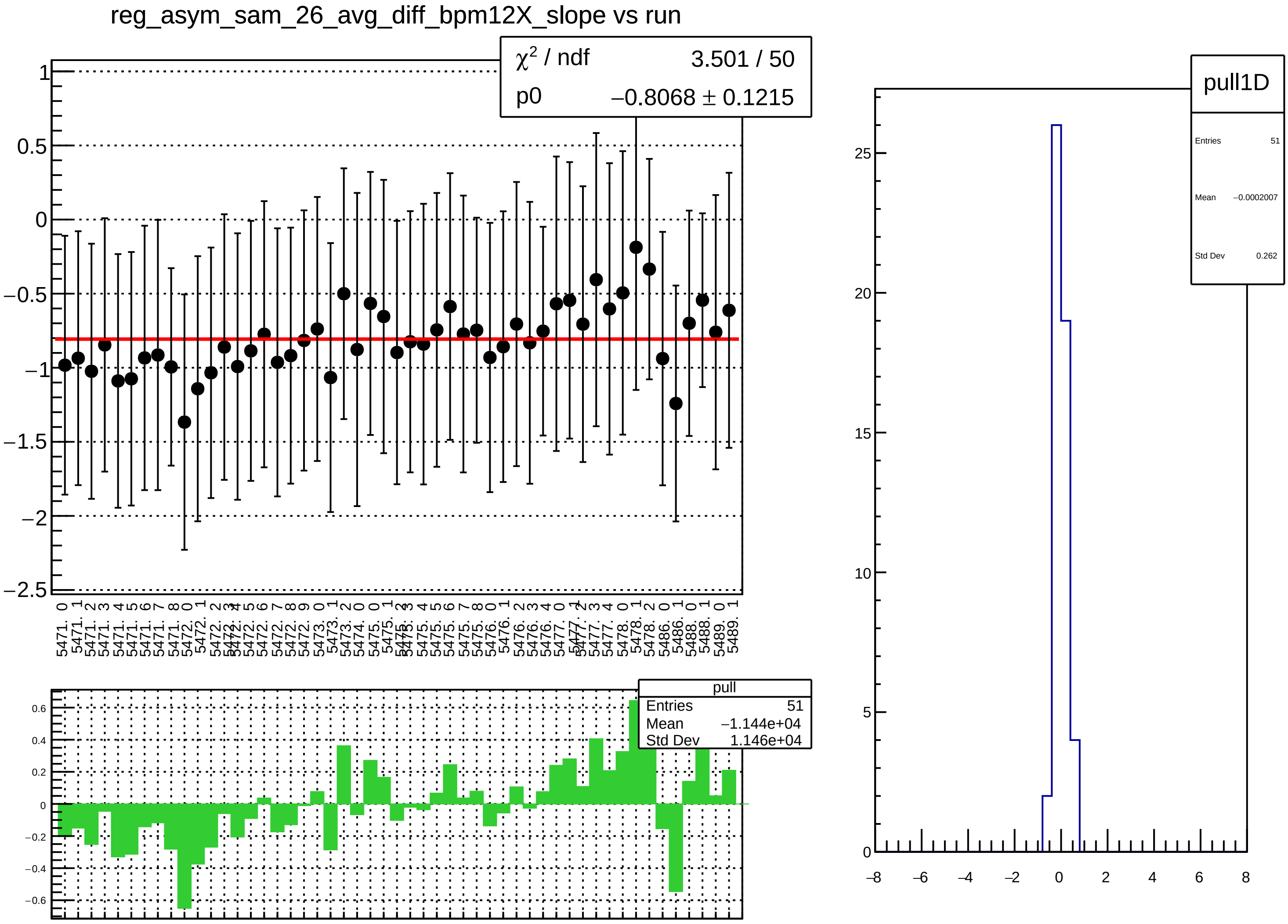
reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ2 / ndf 247.5 / 50
p0 −31.35 ± 2.756
pull
Entries 51
Mean 8.101
Std Dev 10.98
pull1D
Entries 51
Mean −0.9657
Std Dev 1.473



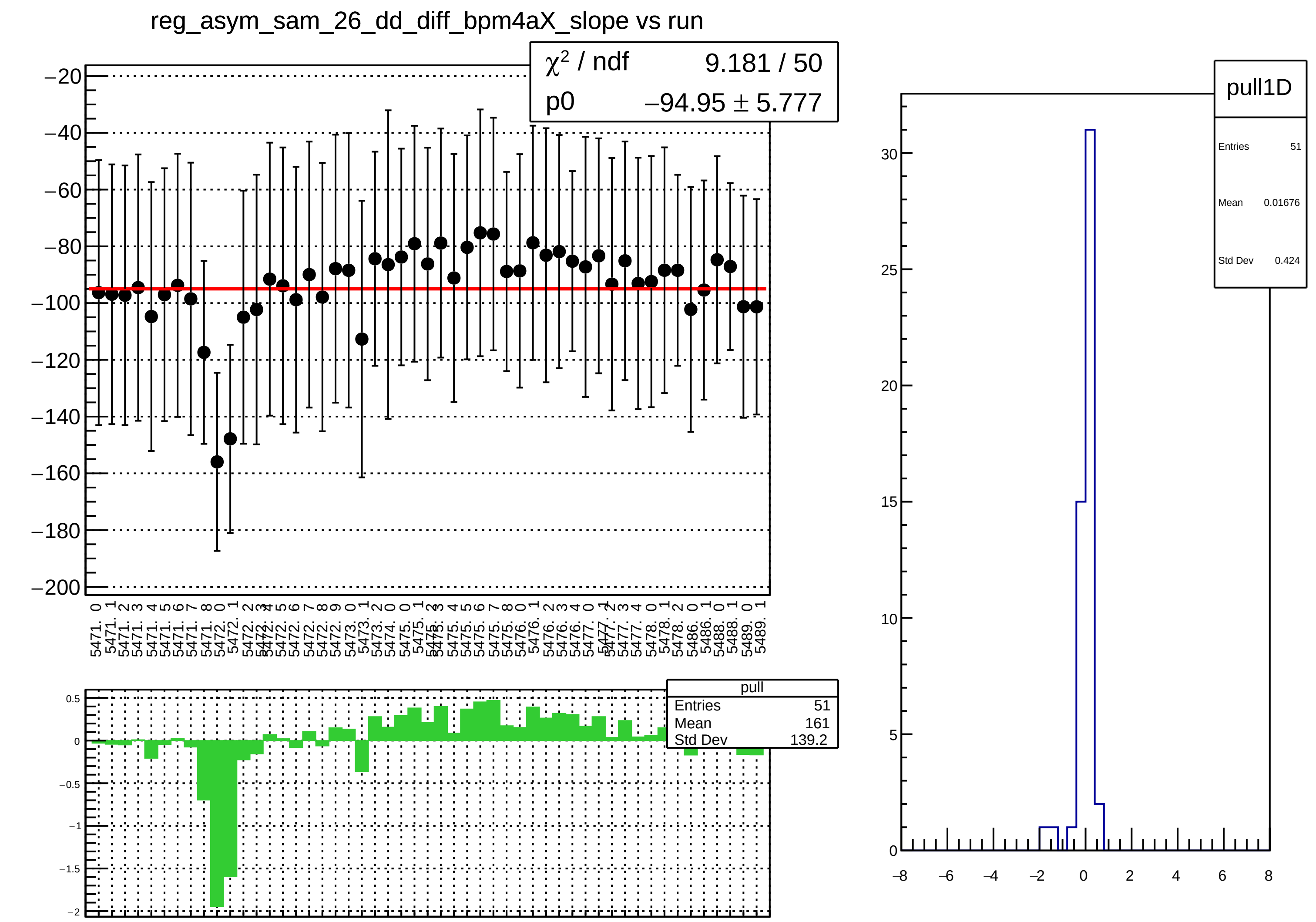
reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ2 / ndf 12.12 / 50
p0 −68.41 ± 4.792
pull
Entries 51
Mean −3342
Std Dev 3364
pull1D
Entries 51
Mean 0.001157
Std Dev 0.4876



reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 237.1 / 50
p0 −76.72 ± 3.469
pull
Entries 51
Mean 7.721
Std Dev 10.04
pull1D
Entries 51
Mean 0.9241
Std Dev 1.363

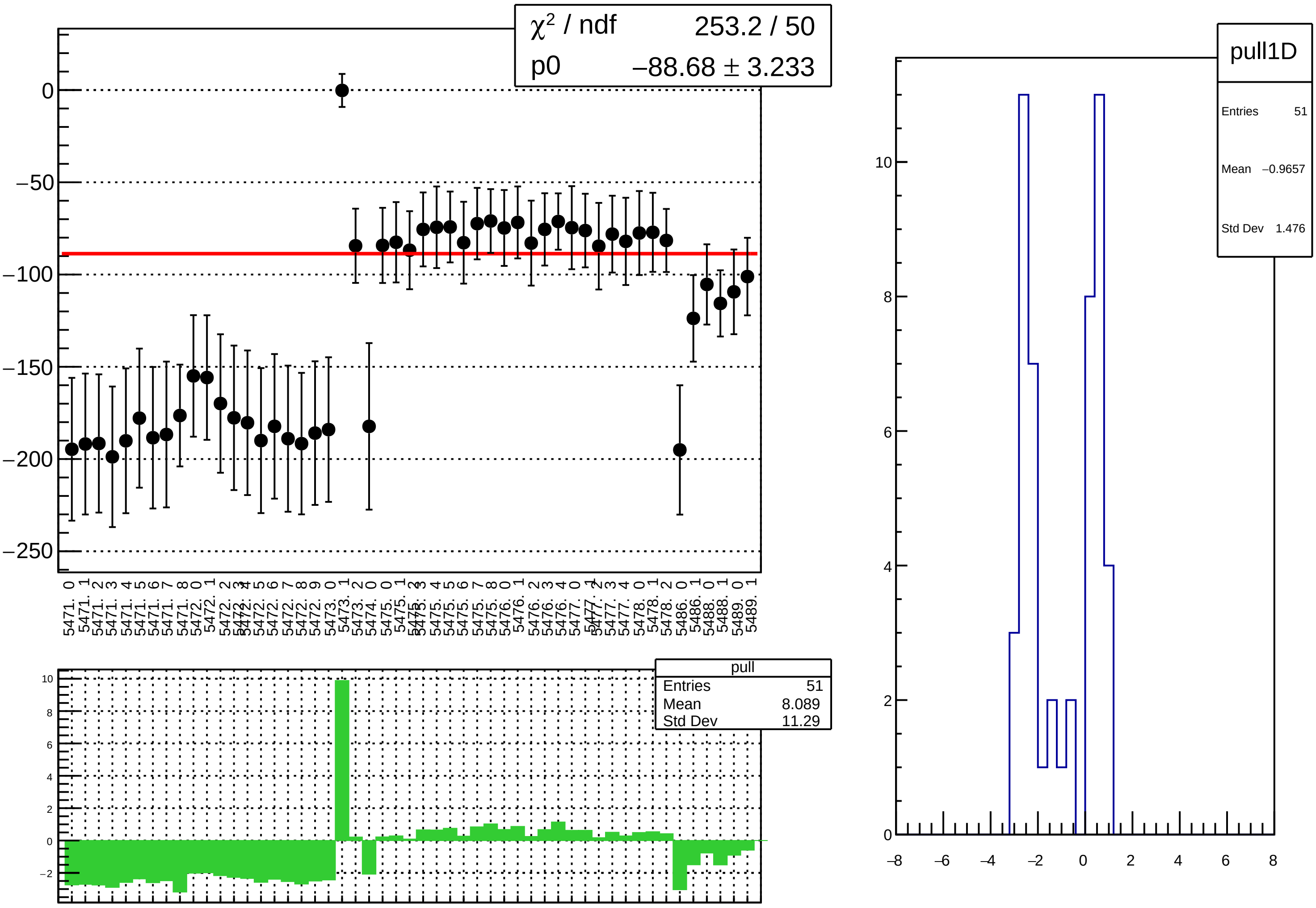


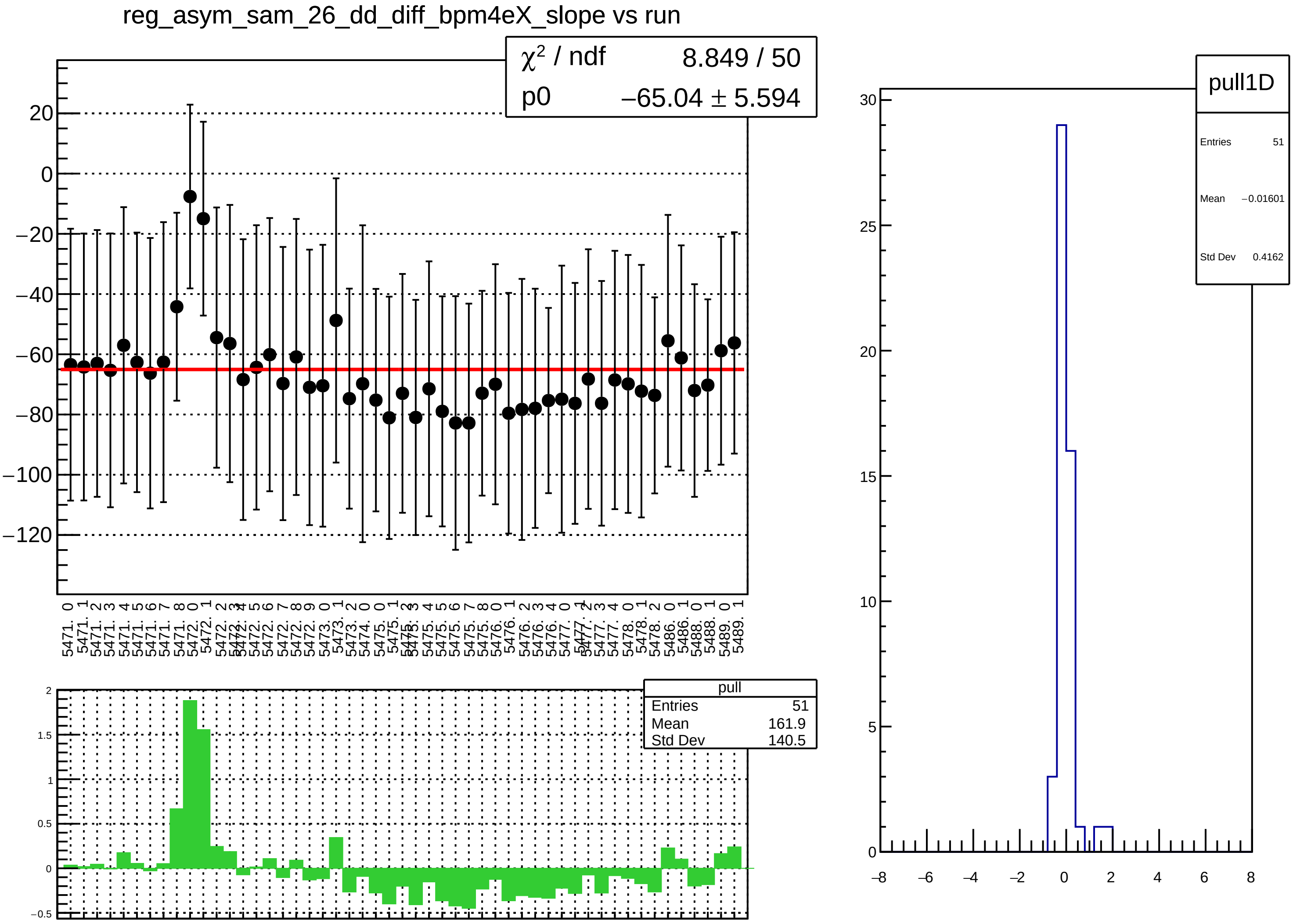
reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ2 / ndf 3.501 / 50
p0 −0.8068 ± 0.1215
pull
Entries 51
Mean −1.144e+04
Std Dev 1.146e+04
pull1D
Entries 51
Mean −0.0002007
Std Dev 0.262



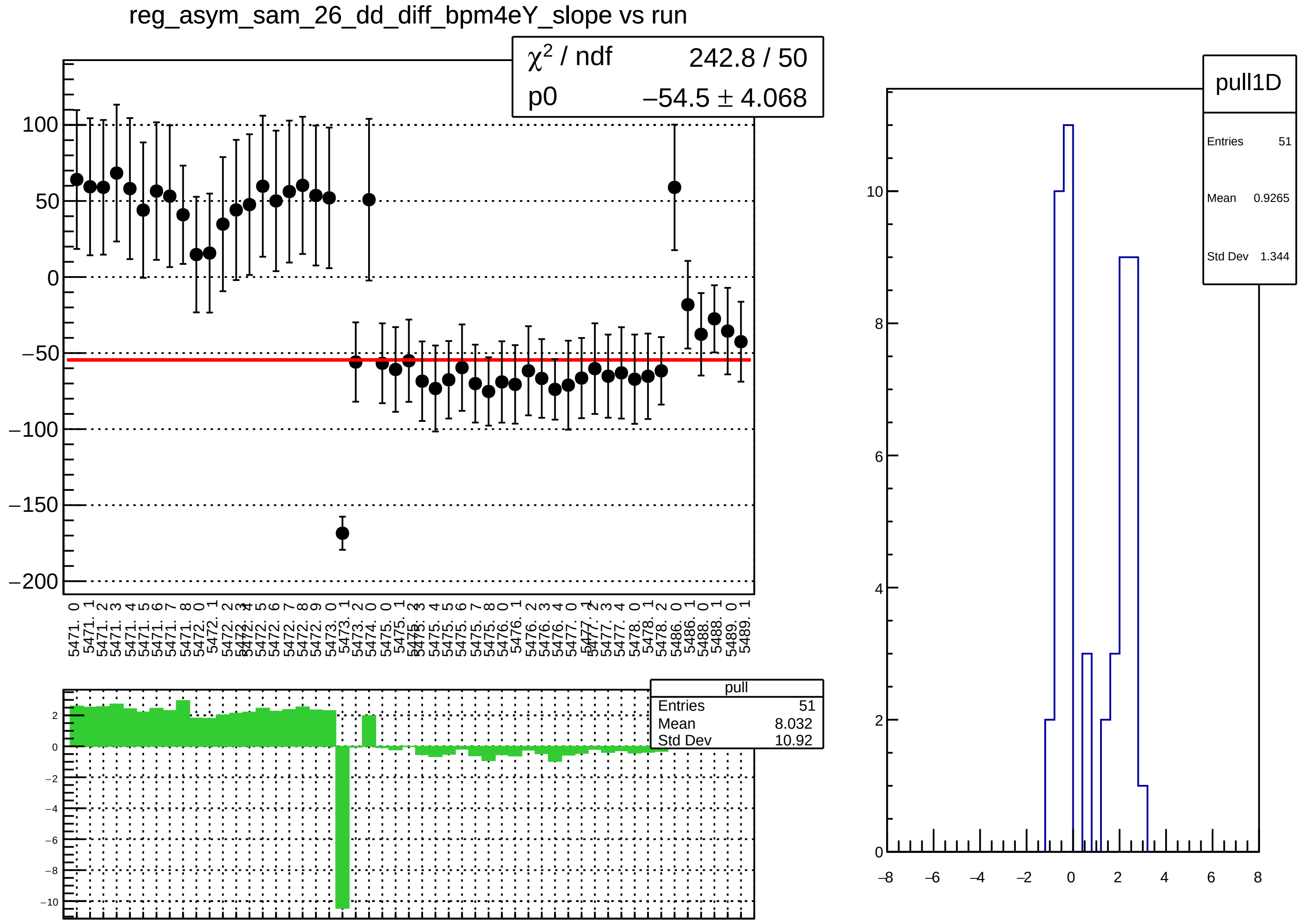
reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ2 / ndf 9.181 / 50
p0 −94.95 ± 5.777
pull
Entries 51
Mean 161
Std Dev 139.2
pull1D
Entries 51
Mean 0.01676
Std Dev 0.424

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run

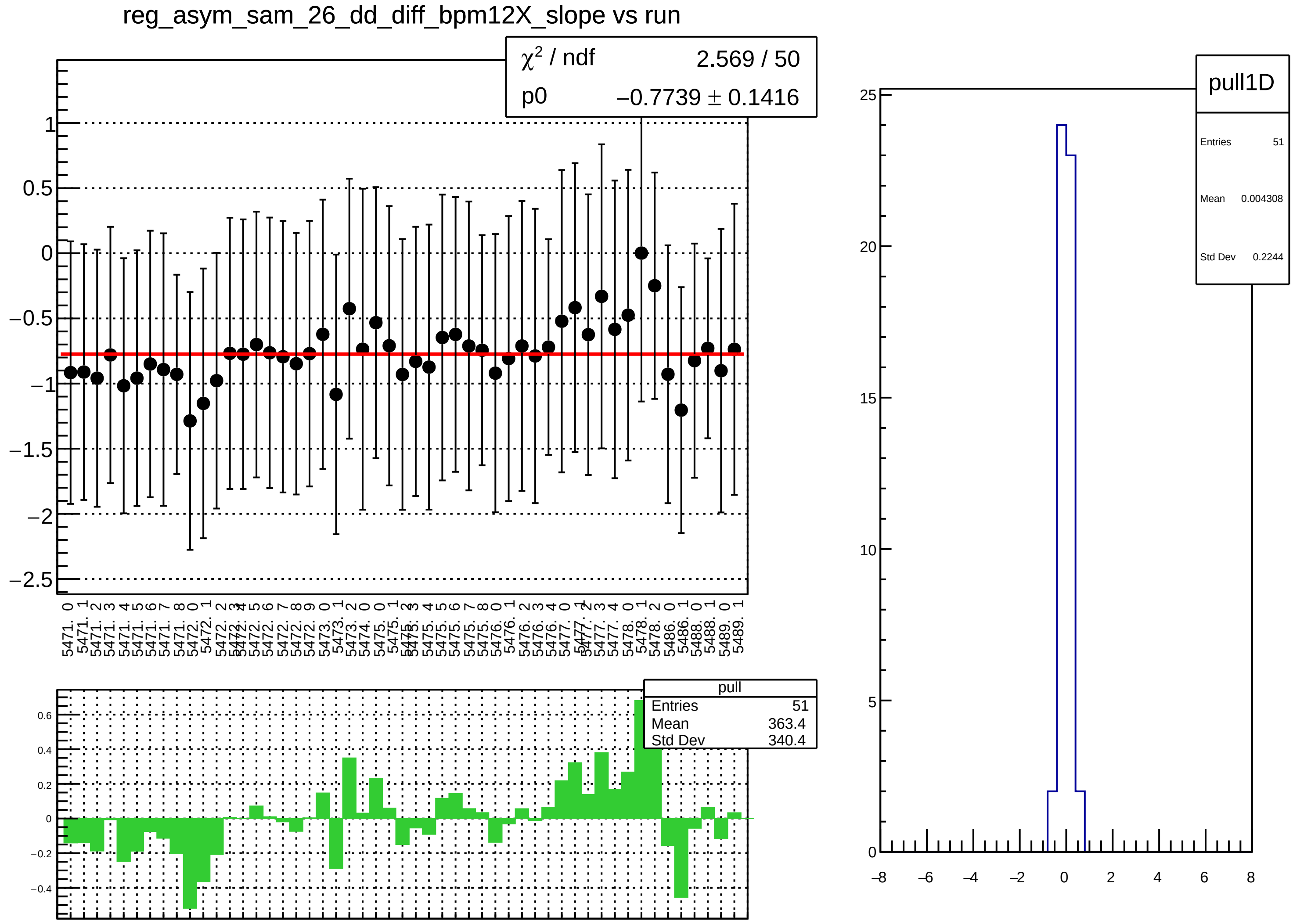


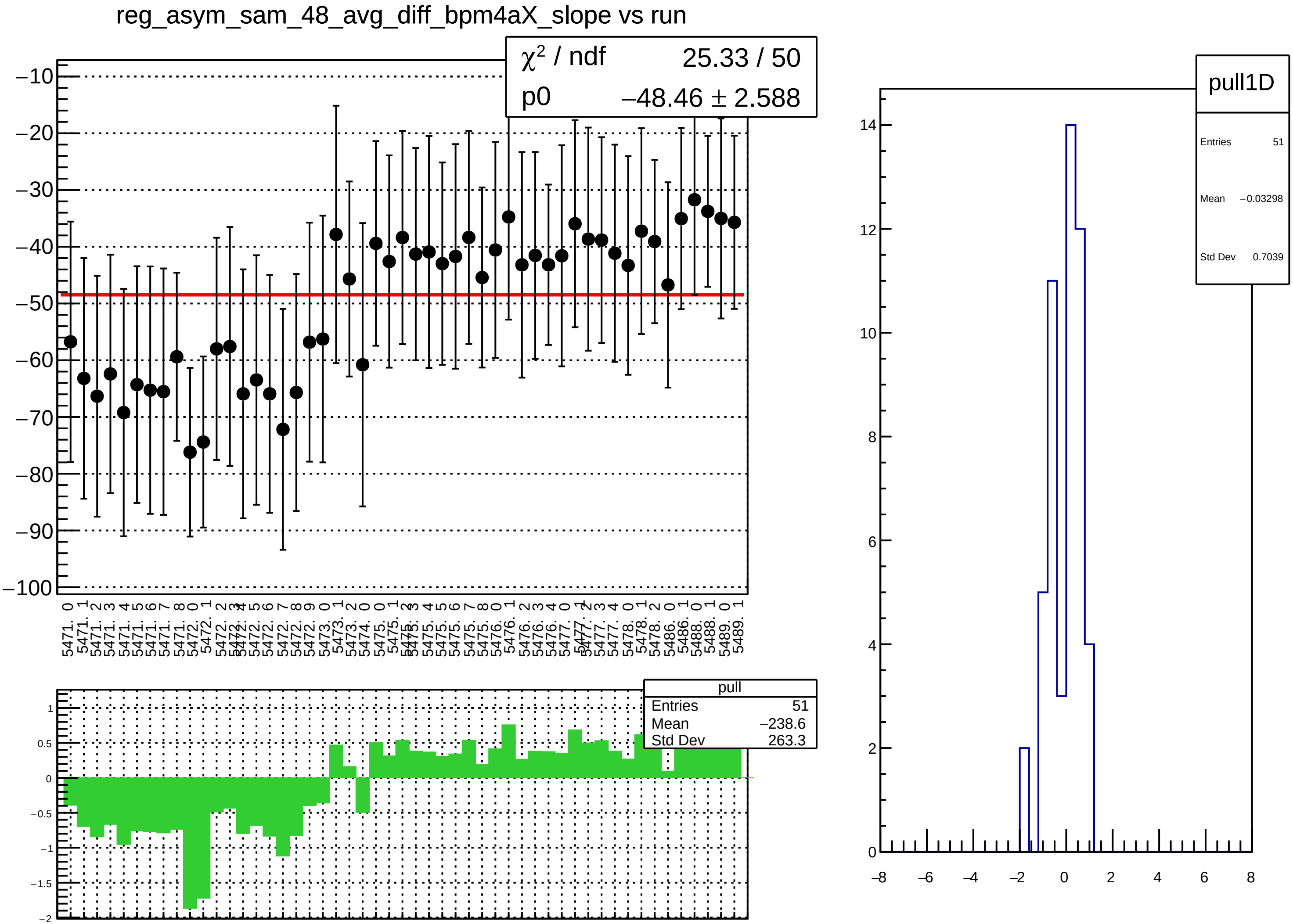


reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 8.849 / 50
p0 −65.04 ± 5.594
pull
Entries 51
Mean 161.9
Std Dev 140.5
pull1D
Entries 51
Mean −0.01601
Std Dev 0.4162

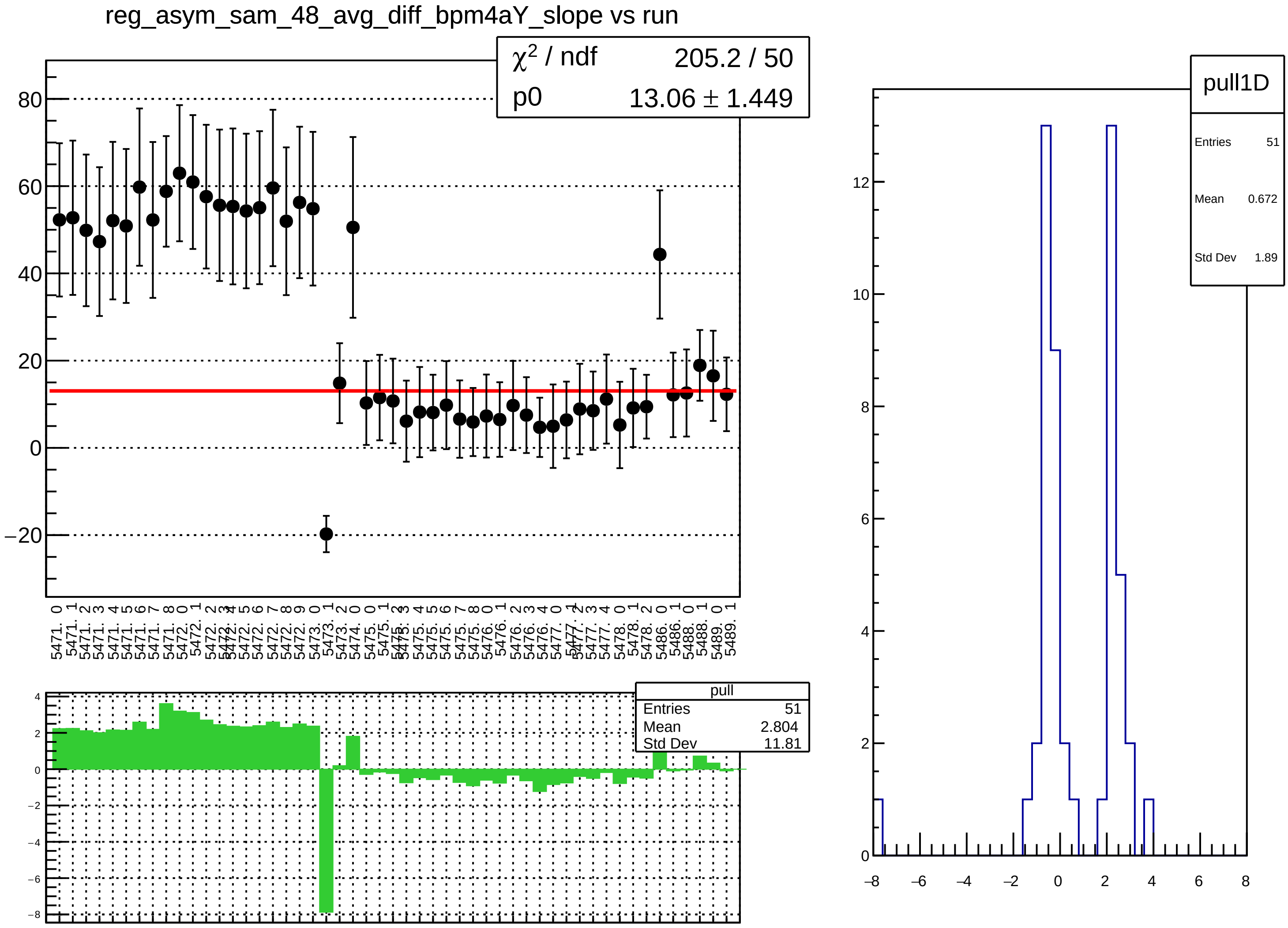


reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 242.8 / 50
p0 −54.5 ± 4.068
pull
Entries 51
Mean 8.032
Std Dev 10.92
pull1D
Entries 51
Mean 0.9265
Std Dev 1.344

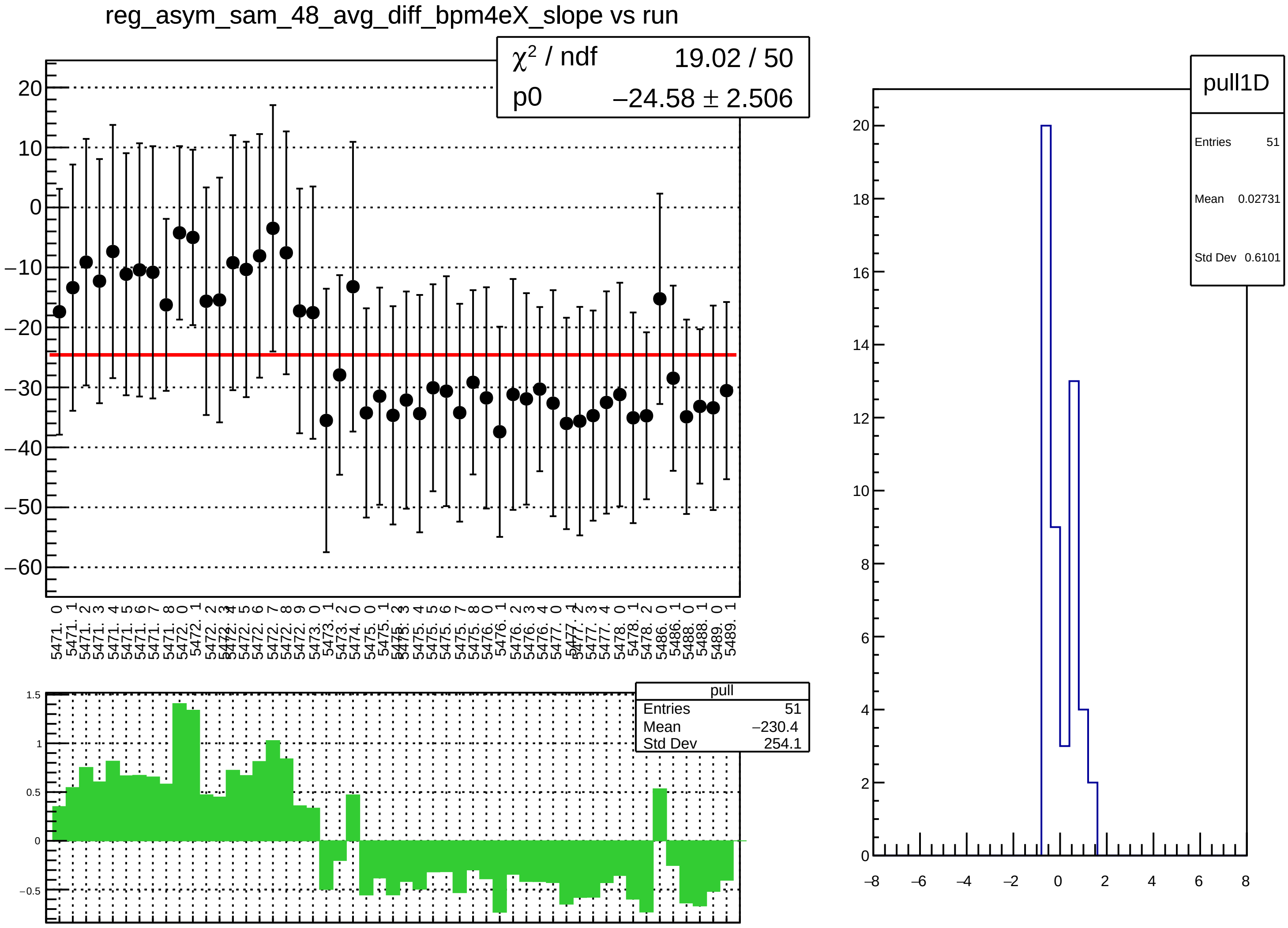

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ^2 / ndf 2.569 / 50
p0 −0.7739 ± 0.1416
pull
Entries 51
Mean 363.4
Std Dev 340.4
pull1D
Entries 51
Mean 0.004308
Std Dev 0.2244



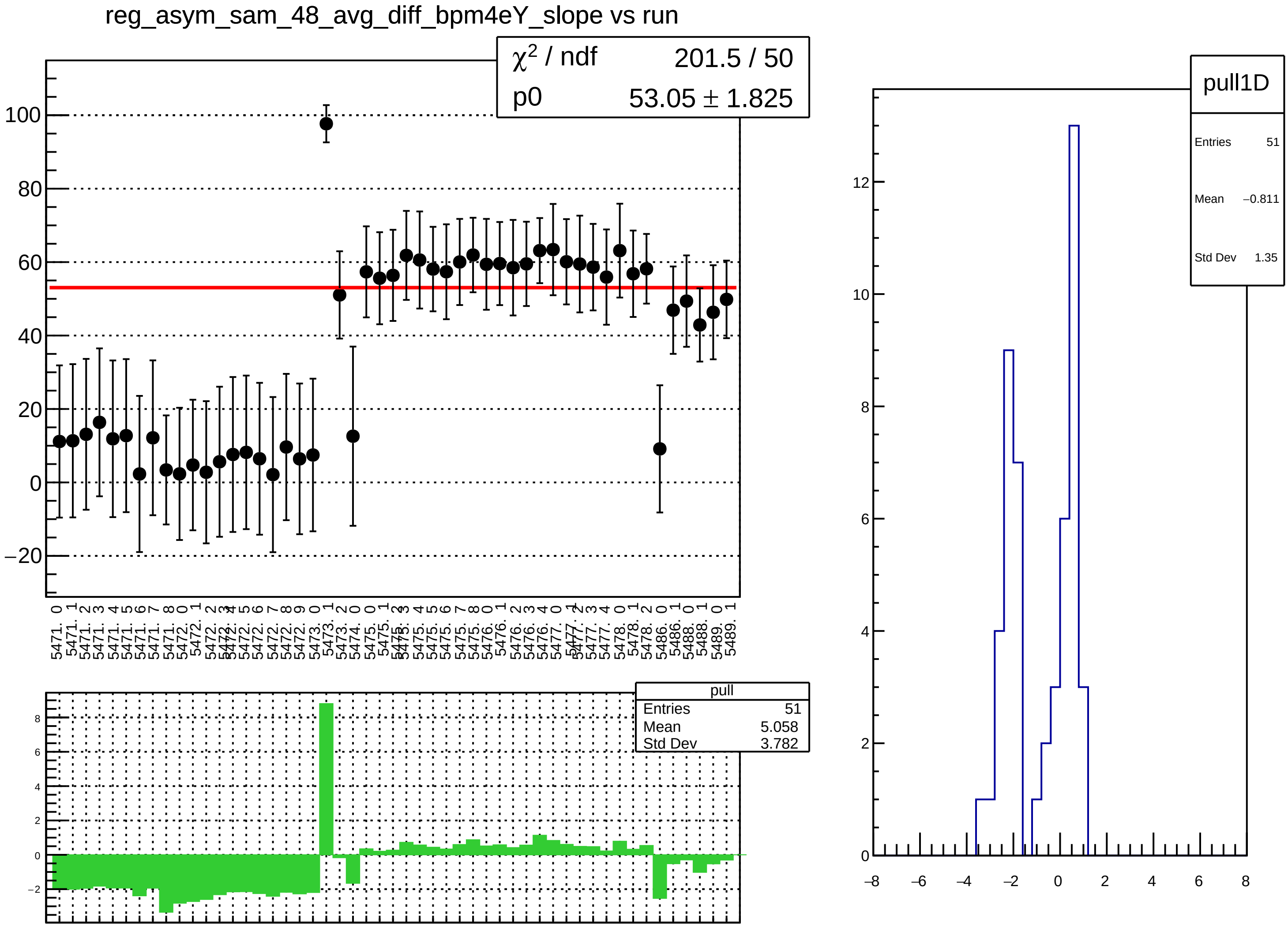
reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 25.33 / 50
p0 −48.46 ± 2.588
pull
Entries 51
Mean −238.6
Std Dev 263.3
pull1D
Entries 51
Mean −0.03298
Std Dev 0.7039



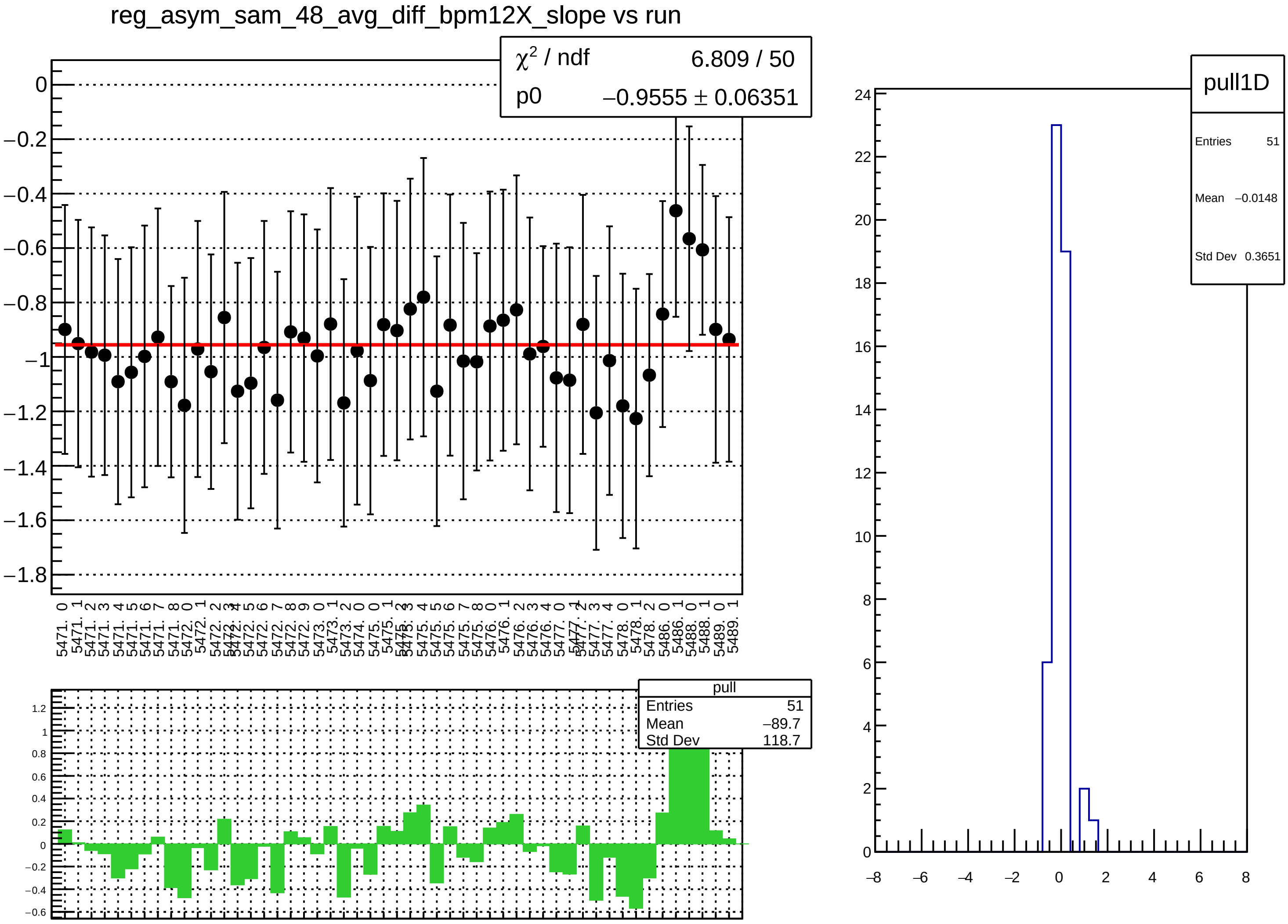
reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 205.2 / 50
p0 13.06 ± 1.449
pull
Entries 51
Mean 2.804
Std Dev 11.81
pull1D
Entries 51
Mean 0.672
Std Dev 1.89



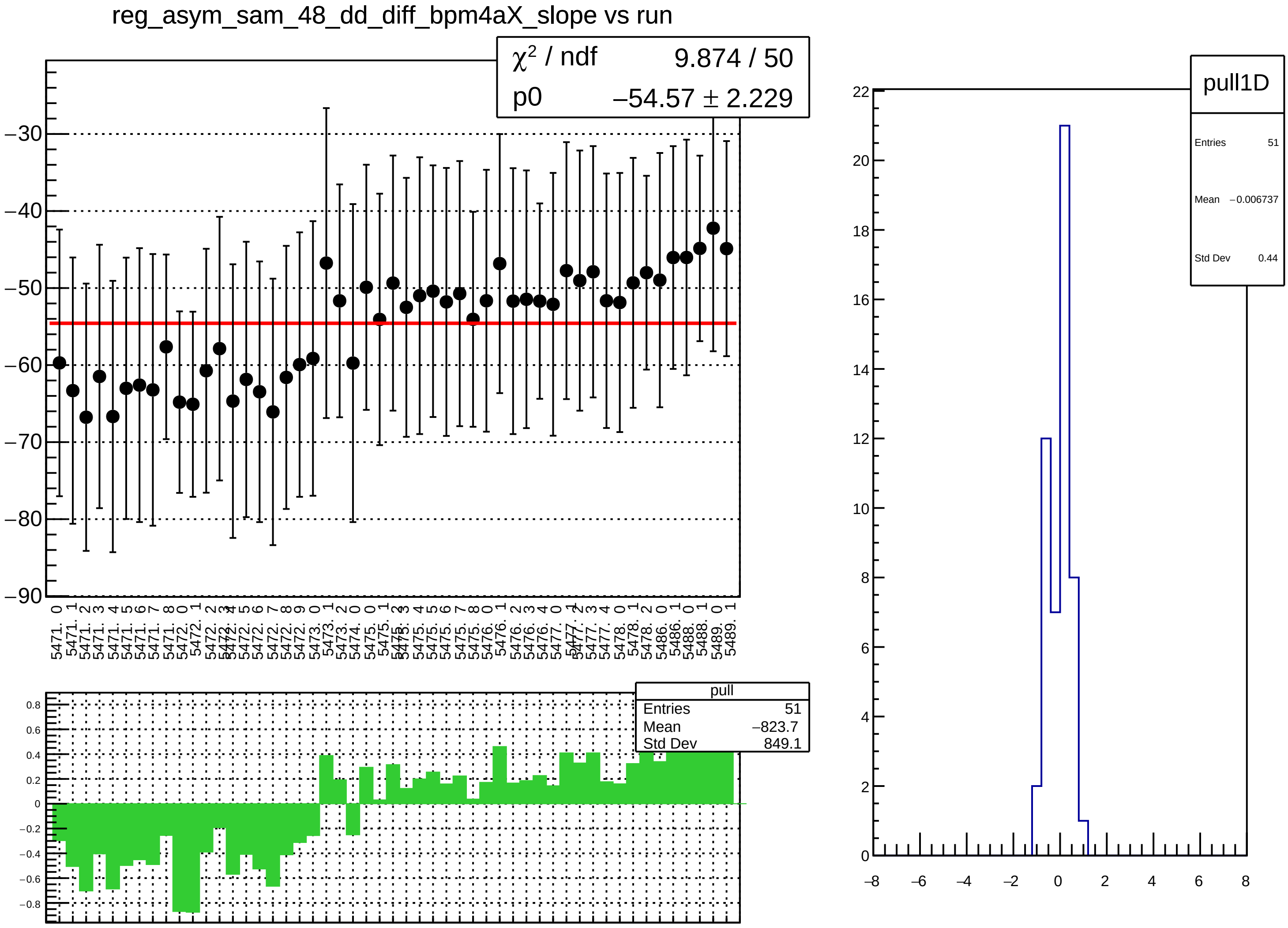
reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 19.02 / 50
p0 −24.58 ± 2.506
pull
Entries 51
Mean −230.4
Std Dev 254.1
pull1D
Entries 51
Mean 0.02731
Std Dev 0.6101



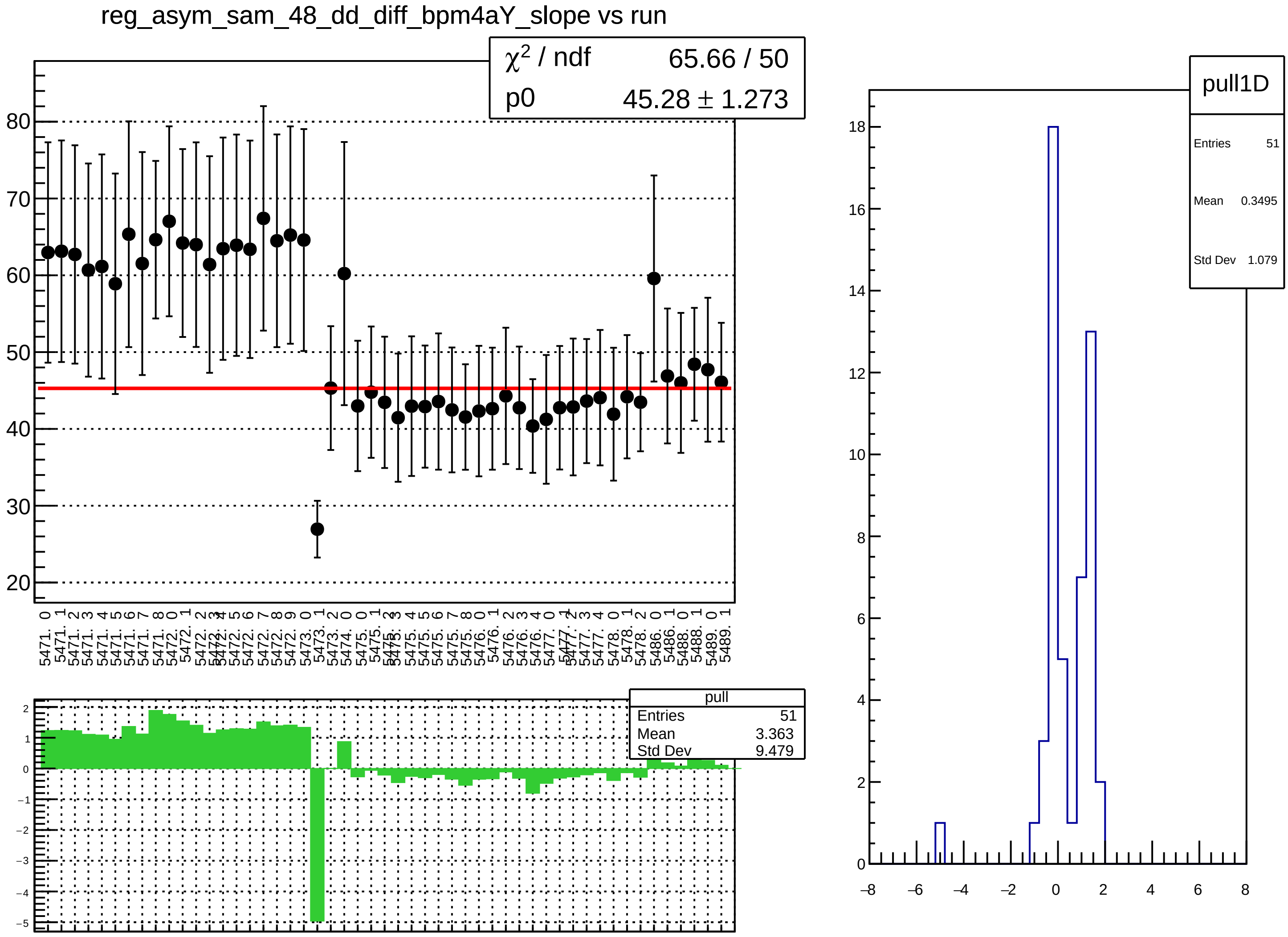
reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ2 / ndf 201.5 / 50
p0 53.05 ± 1.825
pull
Entries 51
Mean 5.058
Std Dev 3.782
pull1D
Entries 51
Mean −0.811
Std Dev 1.35



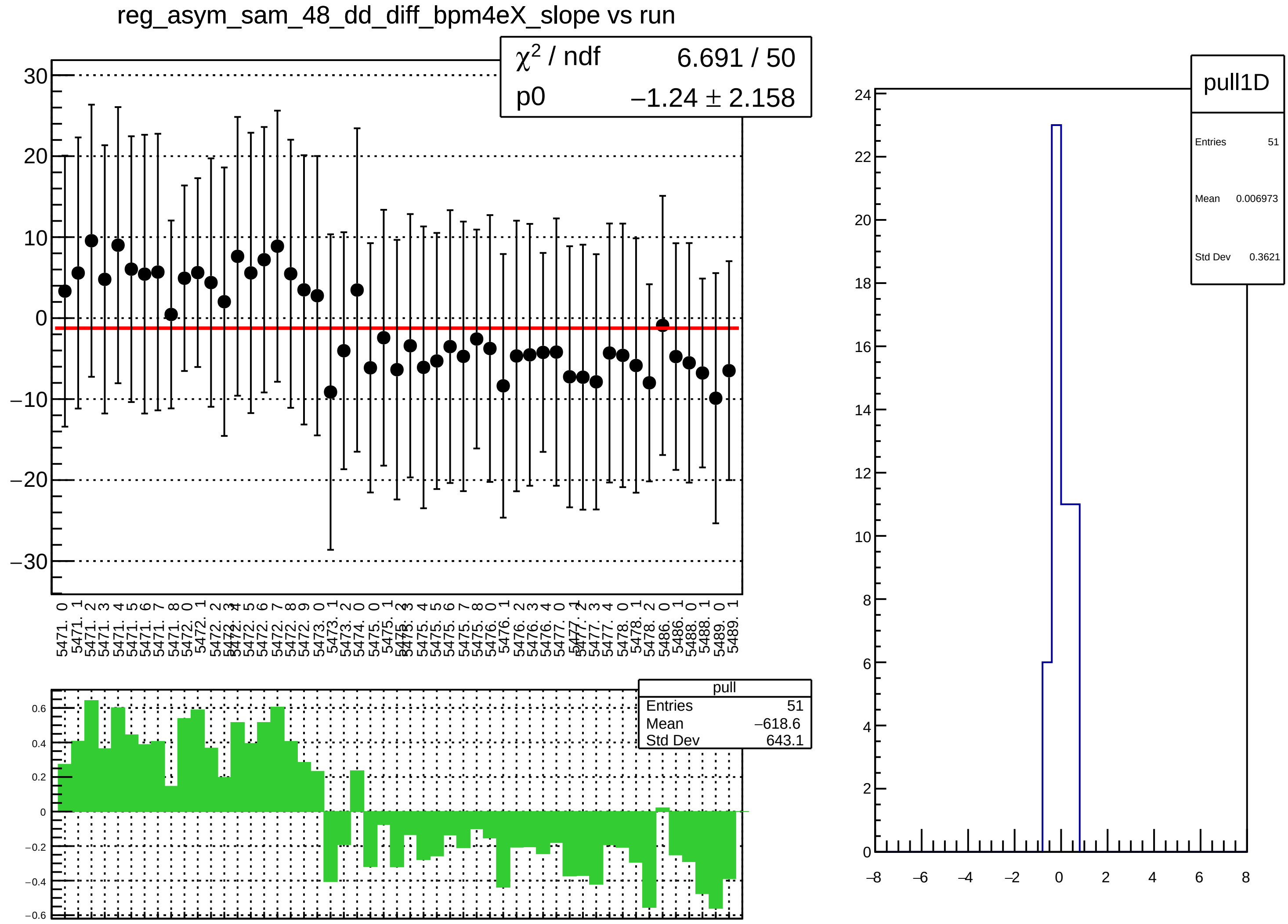
reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ^2 / ndf 6.809 / 50
p0 −0.9555 ± 0.06351
pull
Entries 51
Mean −89.7
Std Dev 118.7
pull1D
Entries 51
Mean −0.0148
Std Dev 0.3651



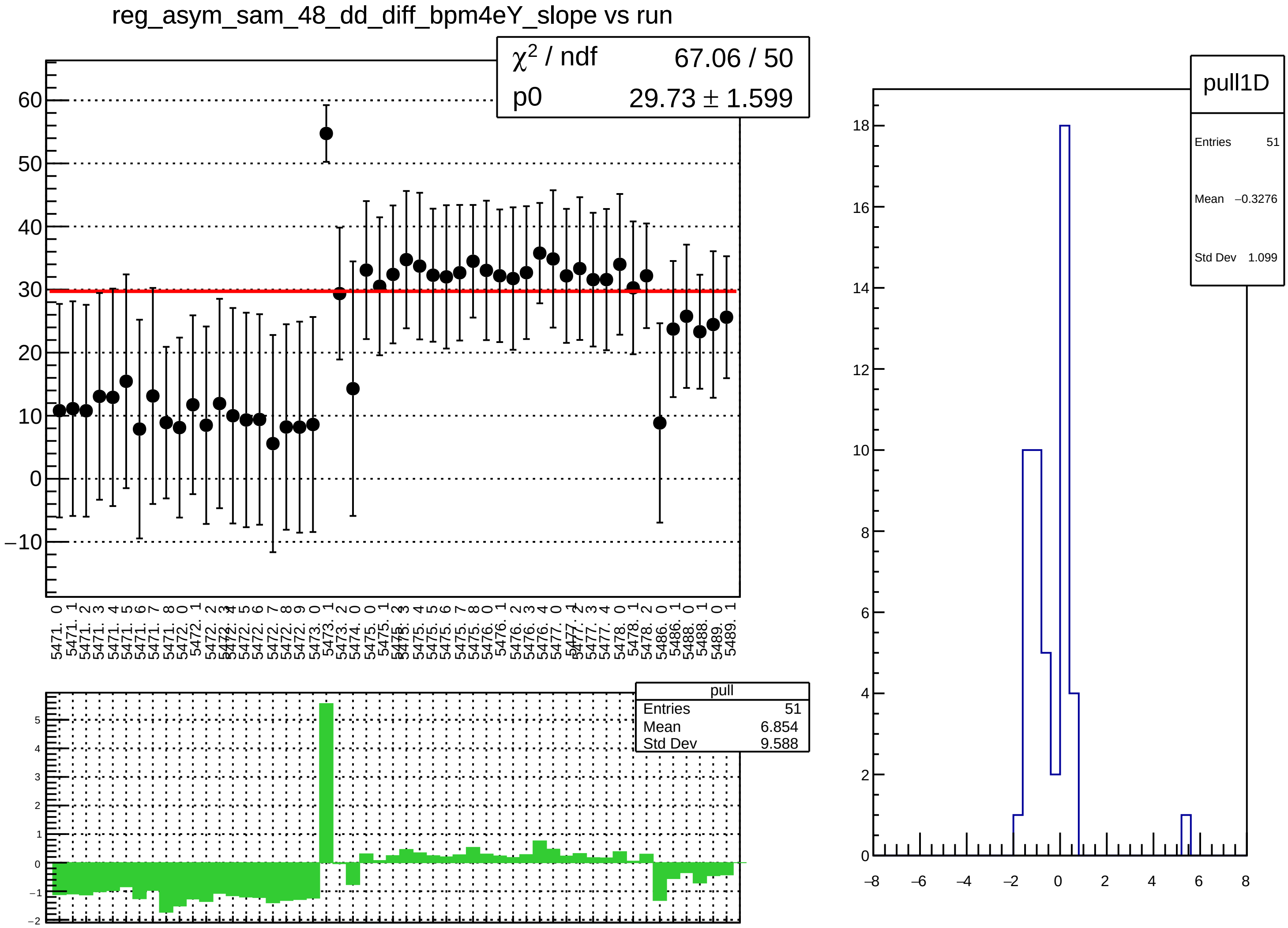
reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ2 / ndf 9.874 / 50
p0 −54.57 ± 2.229
pull
Entries 51
Mean −823.7
Std Dev 849.1
pull1D
Entries 51
Mean −0.006737
Std Dev 0.44



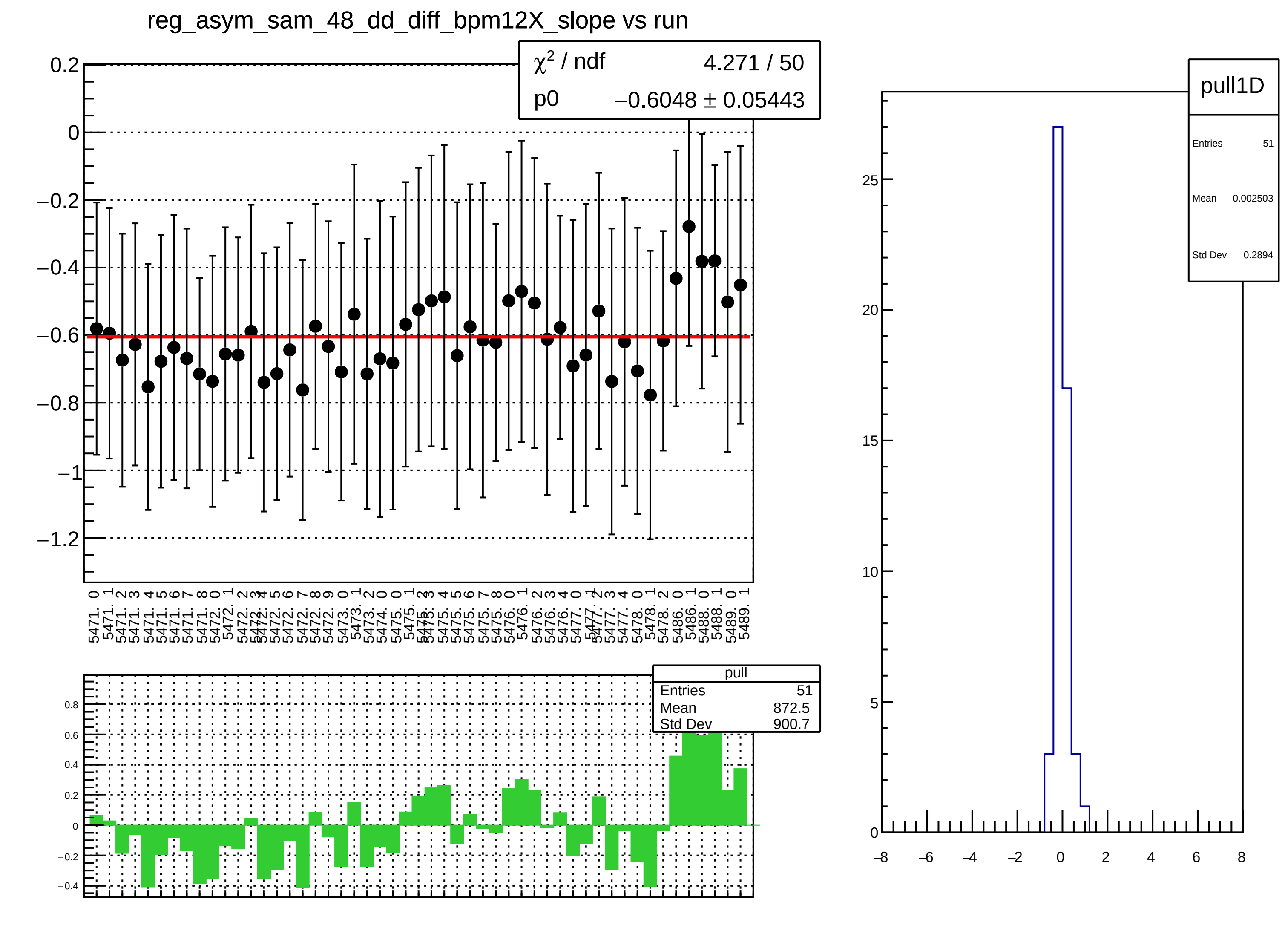
reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 65.66 / 50
p0 45.28 ± 1.273
pull
Entries 51
Mean 3.363
Std Dev 9.479
pull1D
Entries 51
Mean 0.3495
Std Dev 1.079



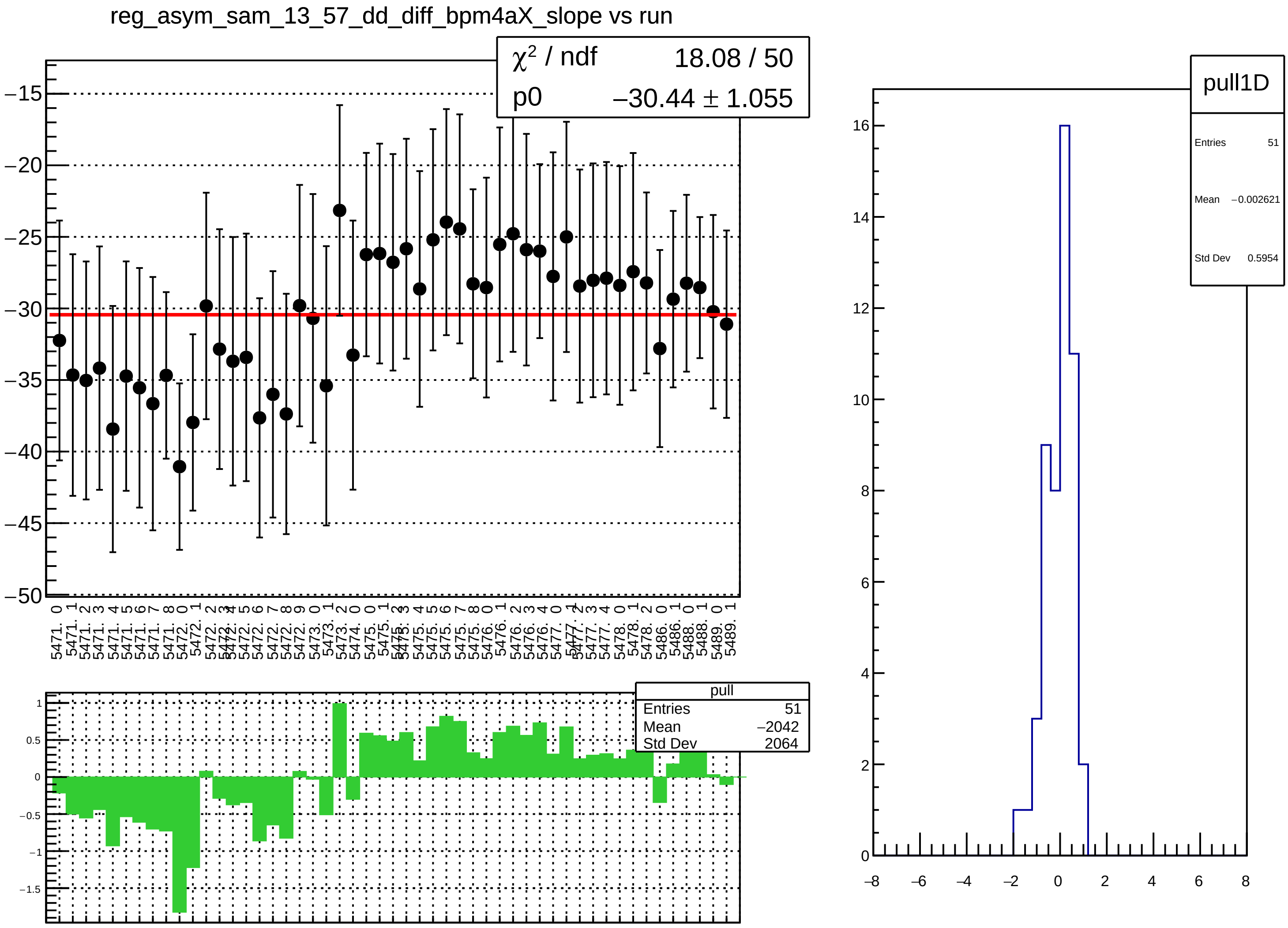
reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ2 / ndf 6.691 / 50
p0 −1.24 ± 2.158
pull
Entries 51
Mean −618.6
Std Dev 643.1
pull1D
Entries 51
Mean 0.006973
Std Dev 0.3621



reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 67.06 / 50
p0 29.73 ± 1.599
pull
Entries 51
Mean 6.854
Std Dev 9.588
pull1D
Entries 51
Mean −0.3276
Std Dev 1.099

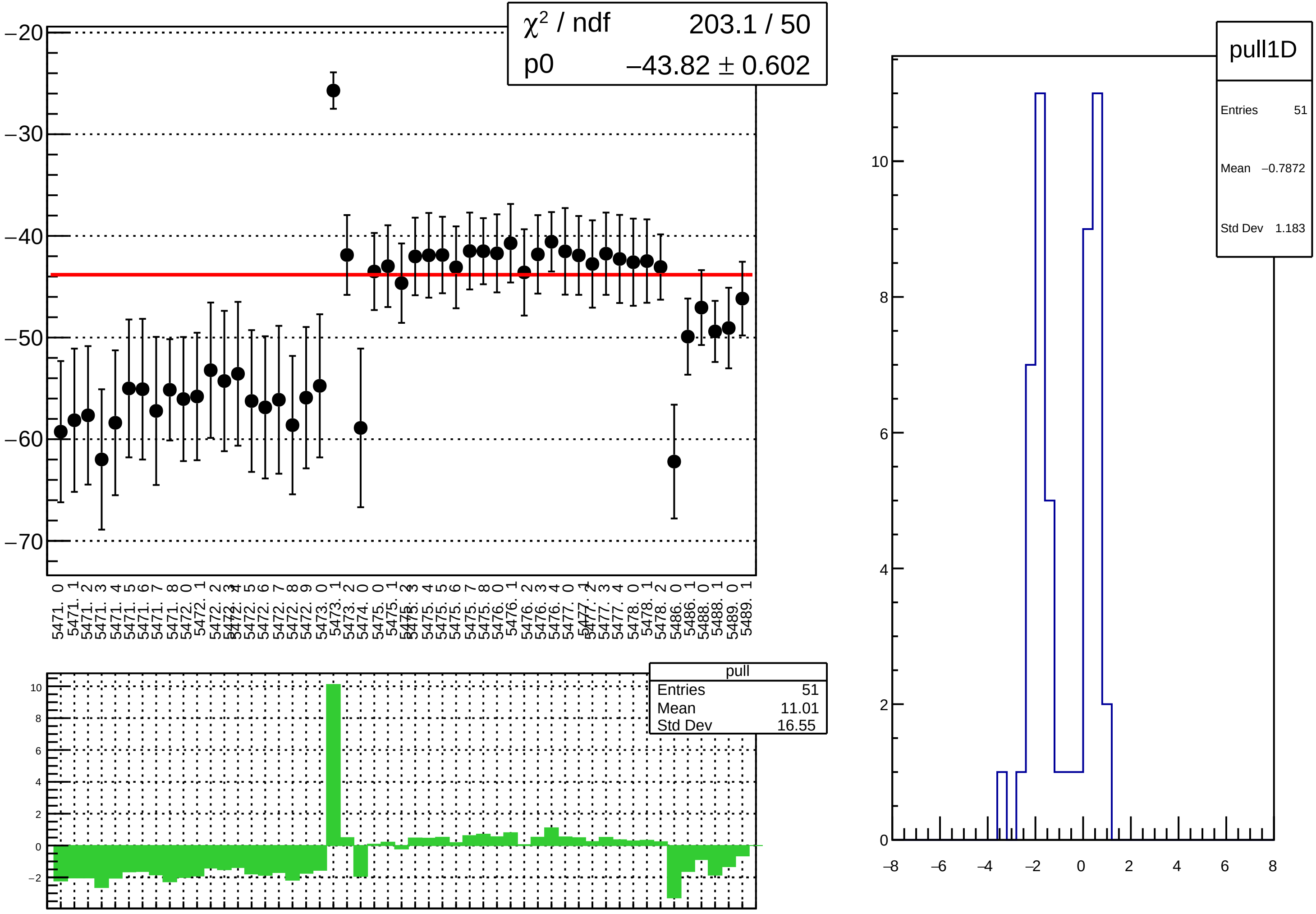


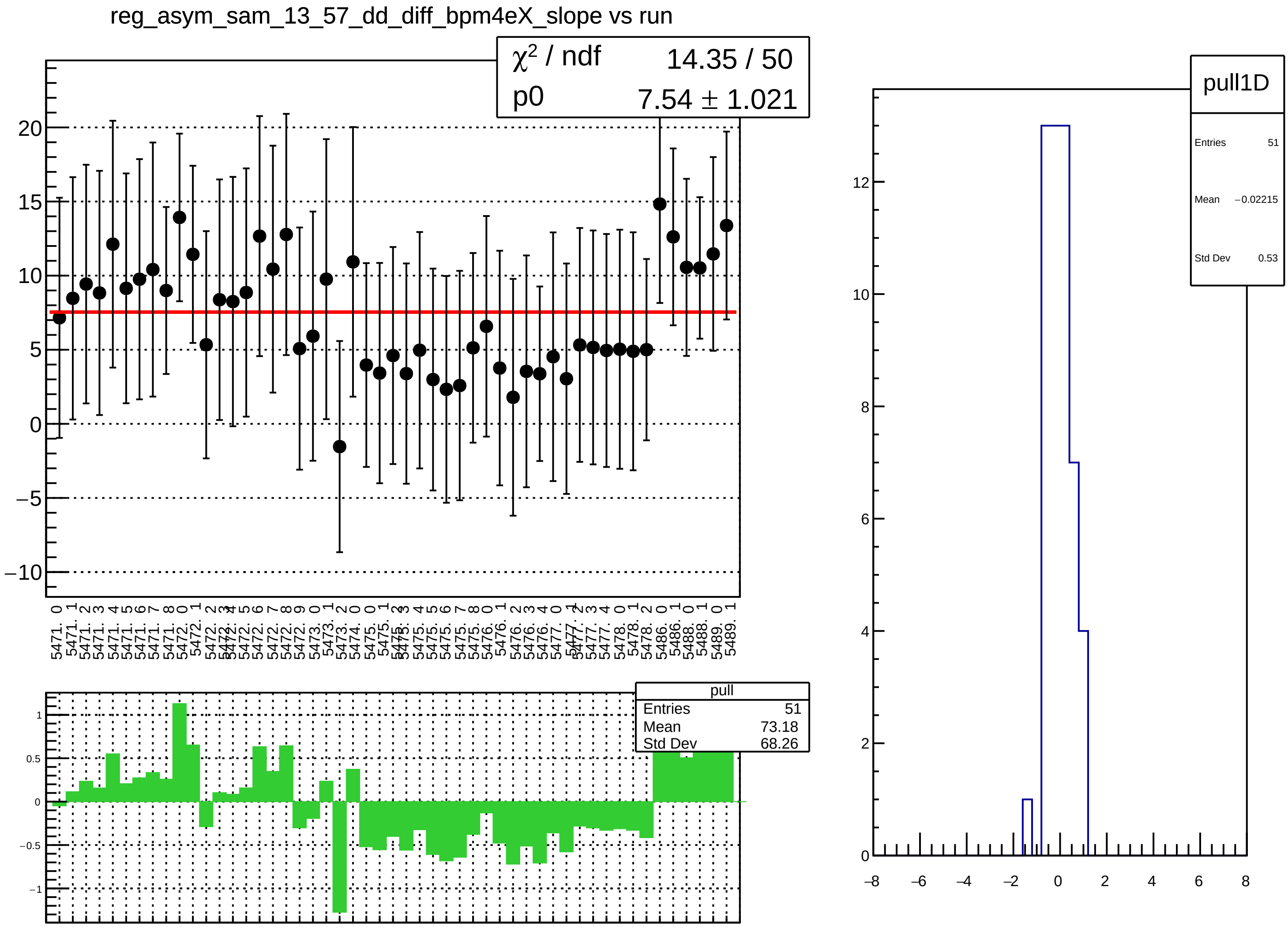
reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ^2 / ndf 4.271 / 50
p0 −0.6048 ± 0.05443
pull
Entries 51
Mean −872.5
Std Dev 900.7
pull1D
Entries 51
Mean −0.002503
Std Dev 0.2894



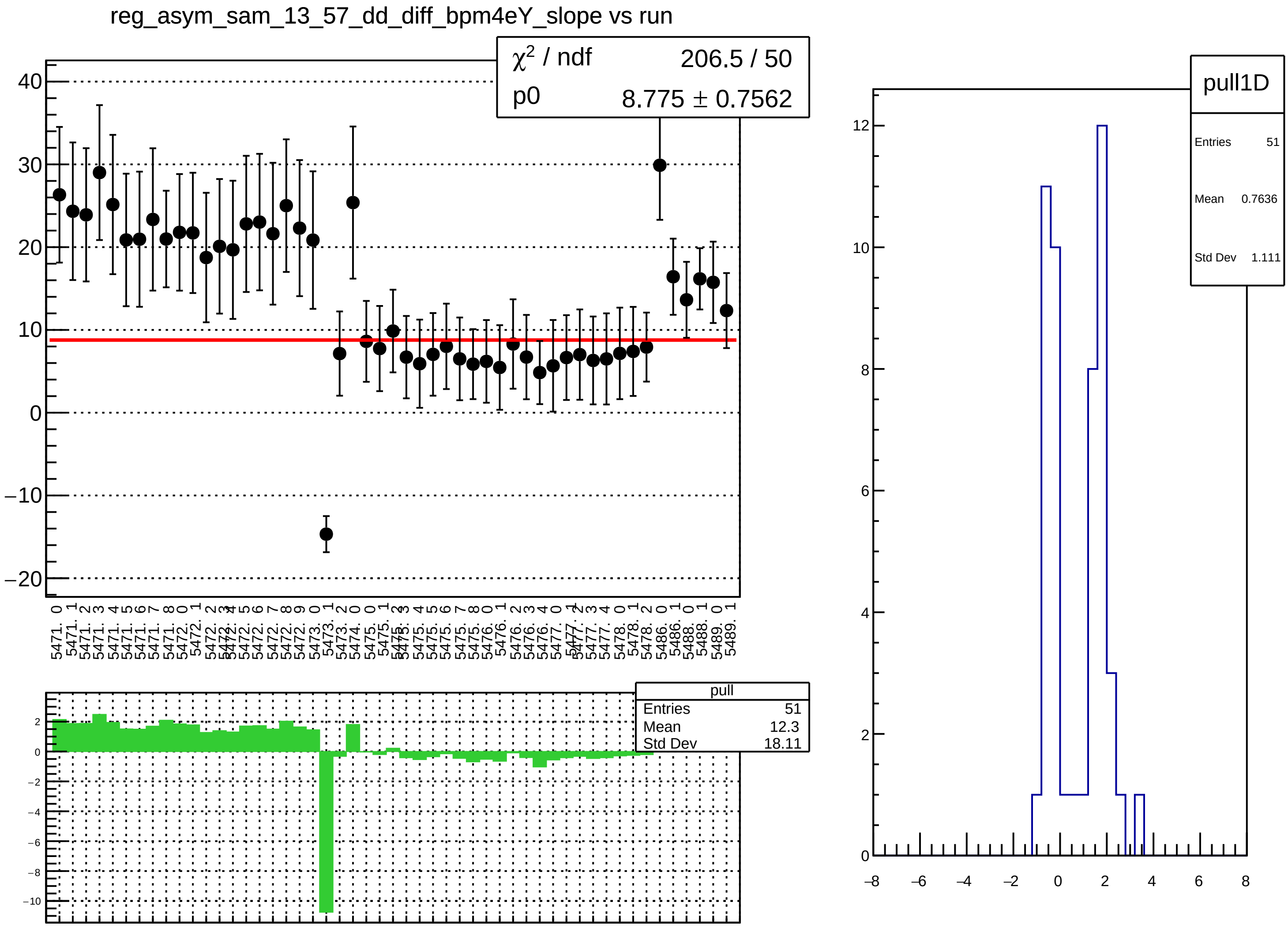
reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ2 / ndf 18.08 / 50
p0 −30.44 ± 1.055
pull
Entries 51
Mean −2042
Std Dev 2064
pull1D
Entries 51
Mean −0.002621
Std Dev 0.5954

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run

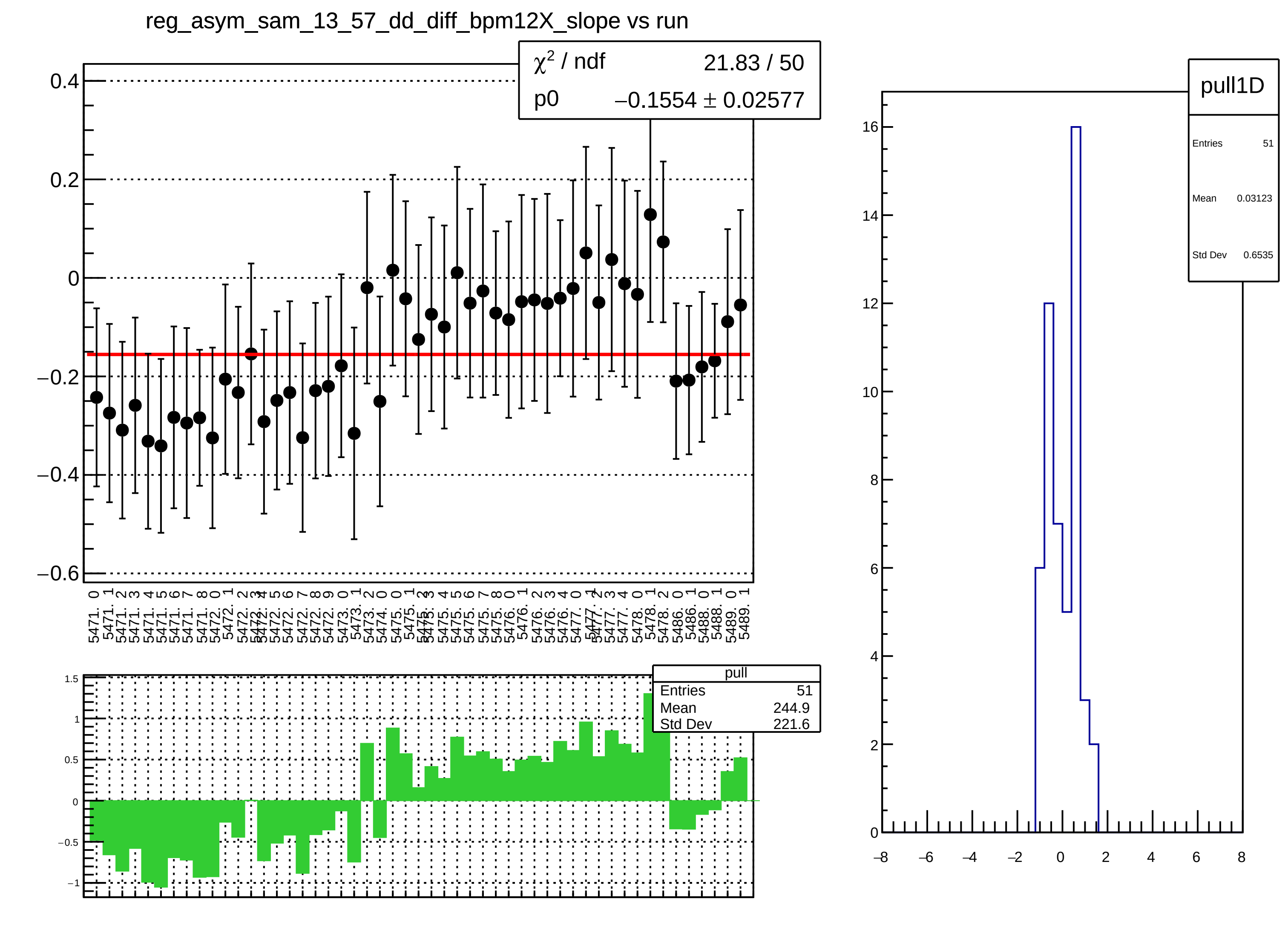




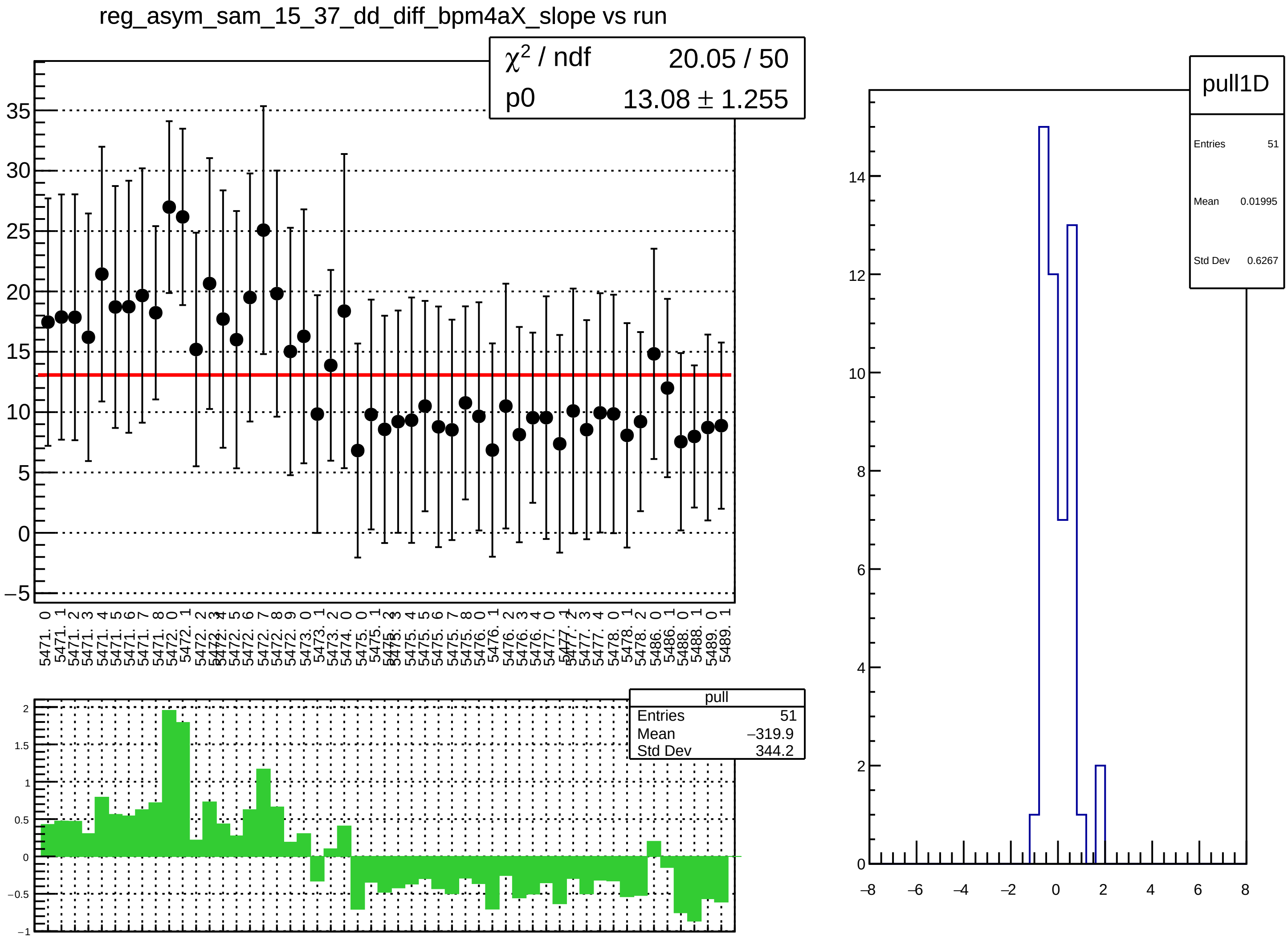
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 14.35 / 50
p0 7.54 ± 1.021
pull
Entries 51
Mean 73.18
Std Dev 68.26
pull1D
Entries 51
Mean −0.02215
Std Dev 0.53



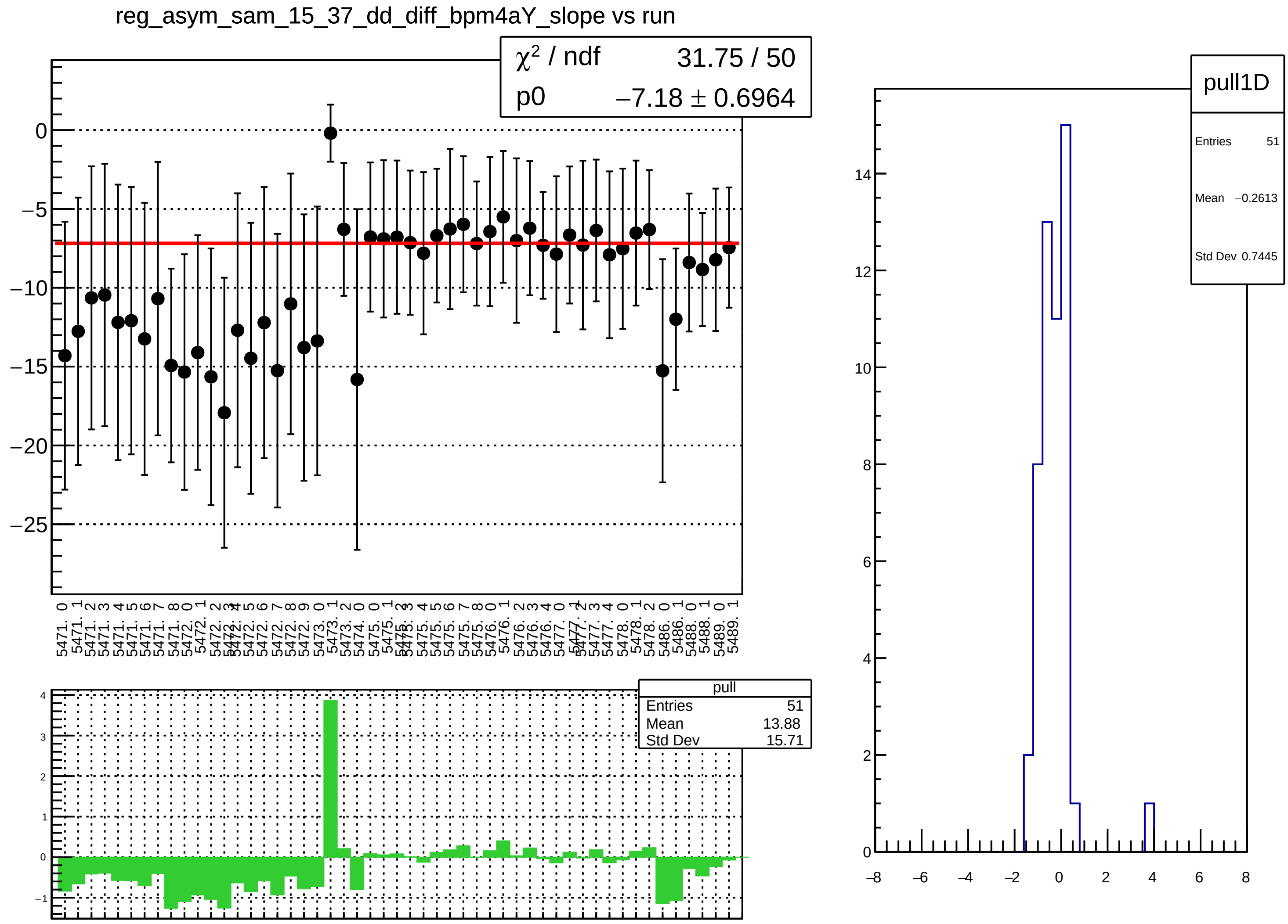
reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ2 / ndf 206.5 / 50
p0 8.775 ± 0.7562
pull
Entries 51
Mean 12.3
Std Dev 18.11
pull1D
Entries 51
Mean 0.7636
Std Dev 1.111



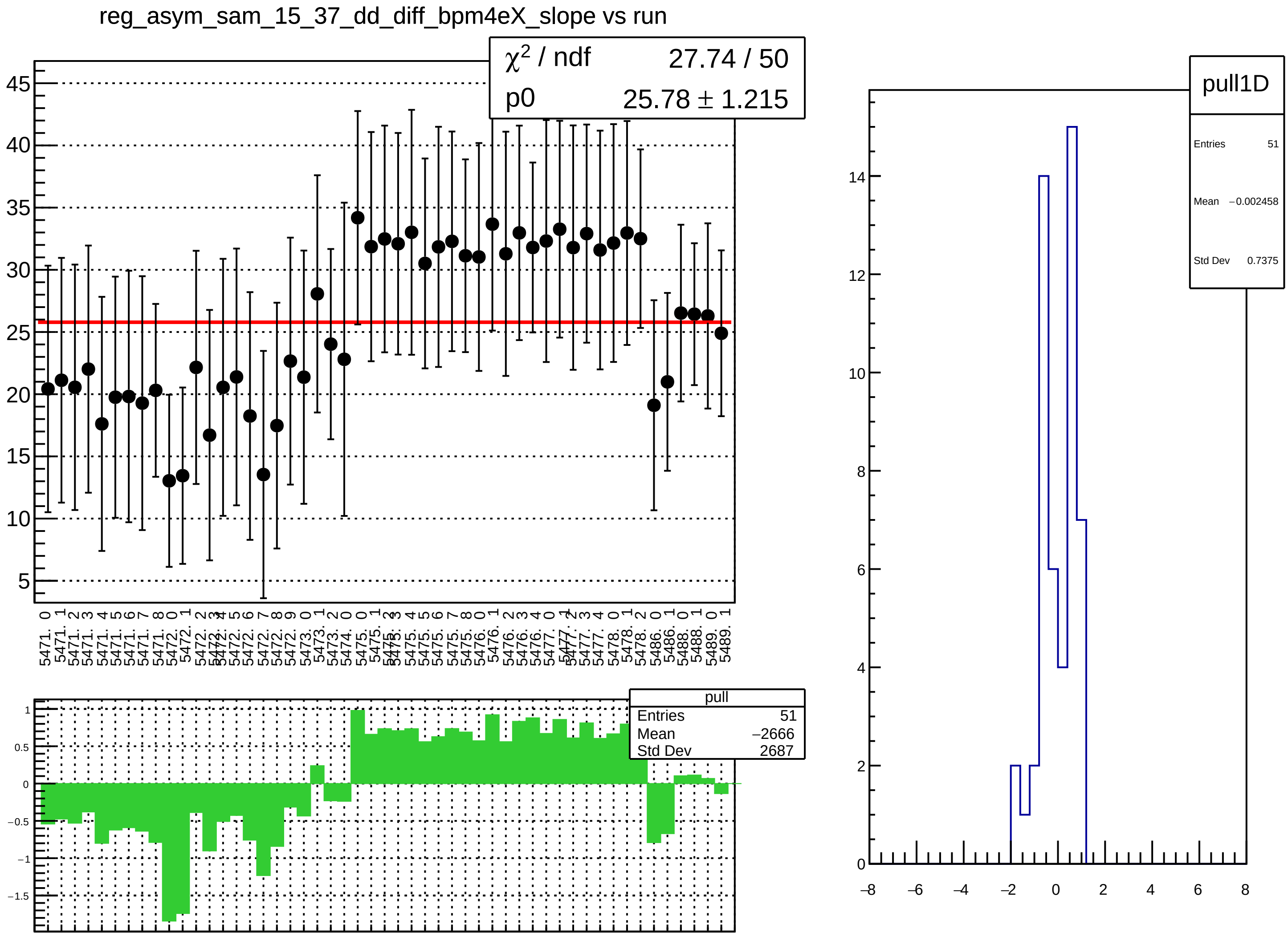
reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ^2 / ndf 21.83 / 50
p0 −0.1554 ± 0.02577
pull
Entries 51
Mean 244.9
Std Dev 221.6
pull1D
Entries 51
Mean 0.03123
Std Dev 0.6535



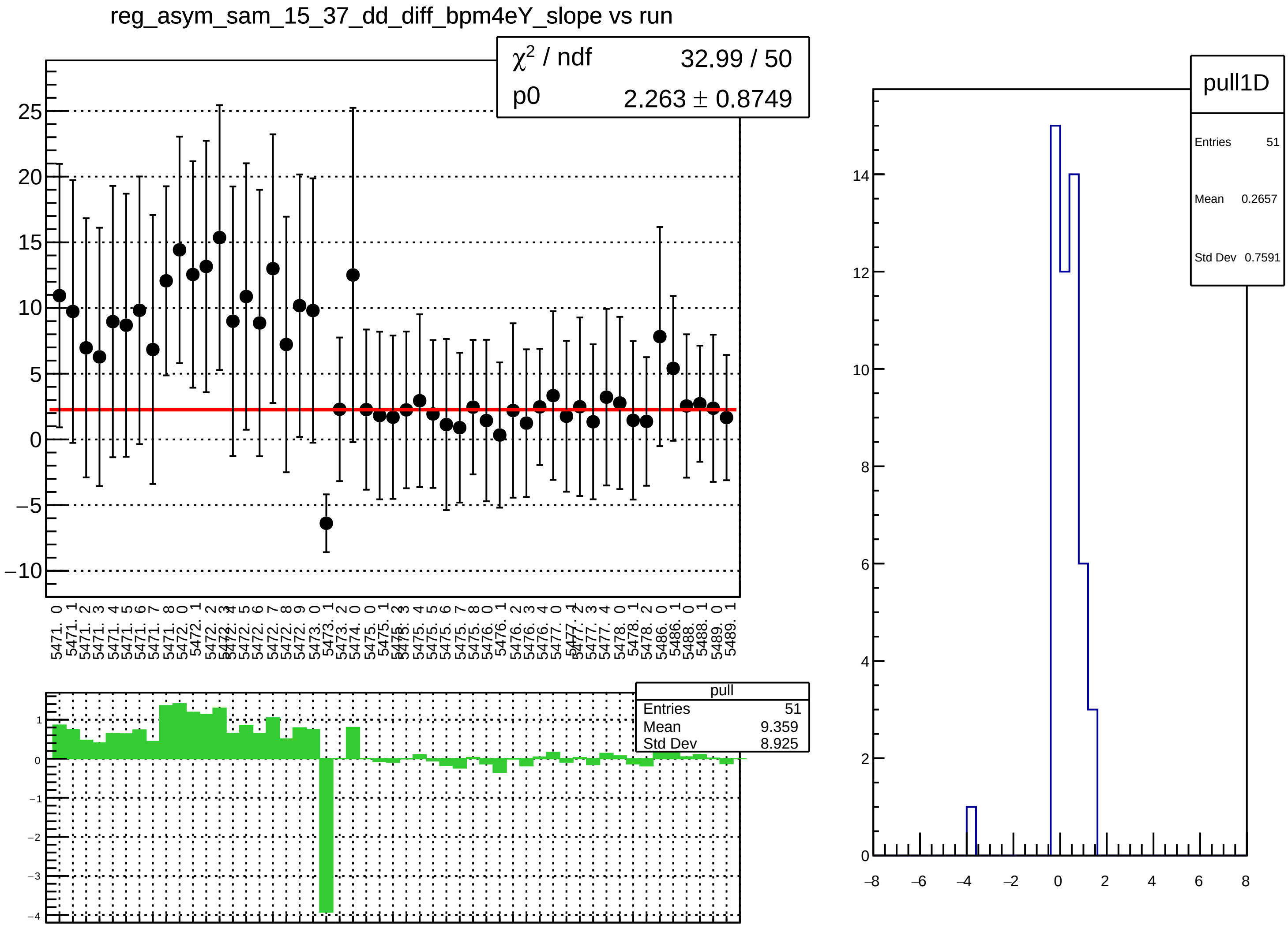
reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 20.05 / 50
p0 13.08 ± 1.255
pull
Entries 51
Mean −319.9
Std Dev 344.2
pull1D
Entries 51
Mean 0.01995
Std Dev 0.6267

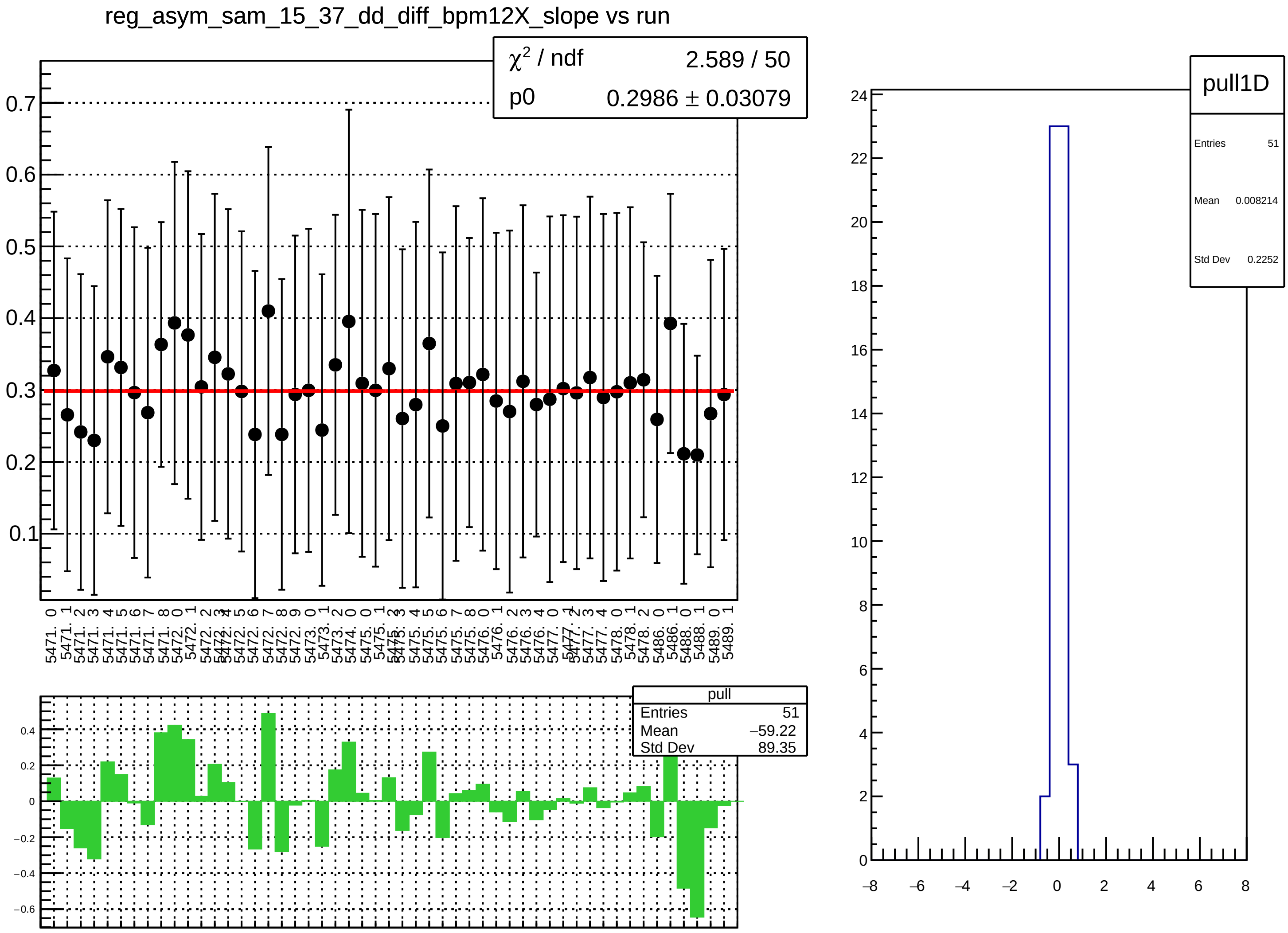


reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 31.75 / 50
p0 −7.18 ± 0.6964
pull
Entries 51
Mean 13.88
Std Dev 15.71
pull1D
Entries 51
Mean −0.2613
Std Dev 0.7445

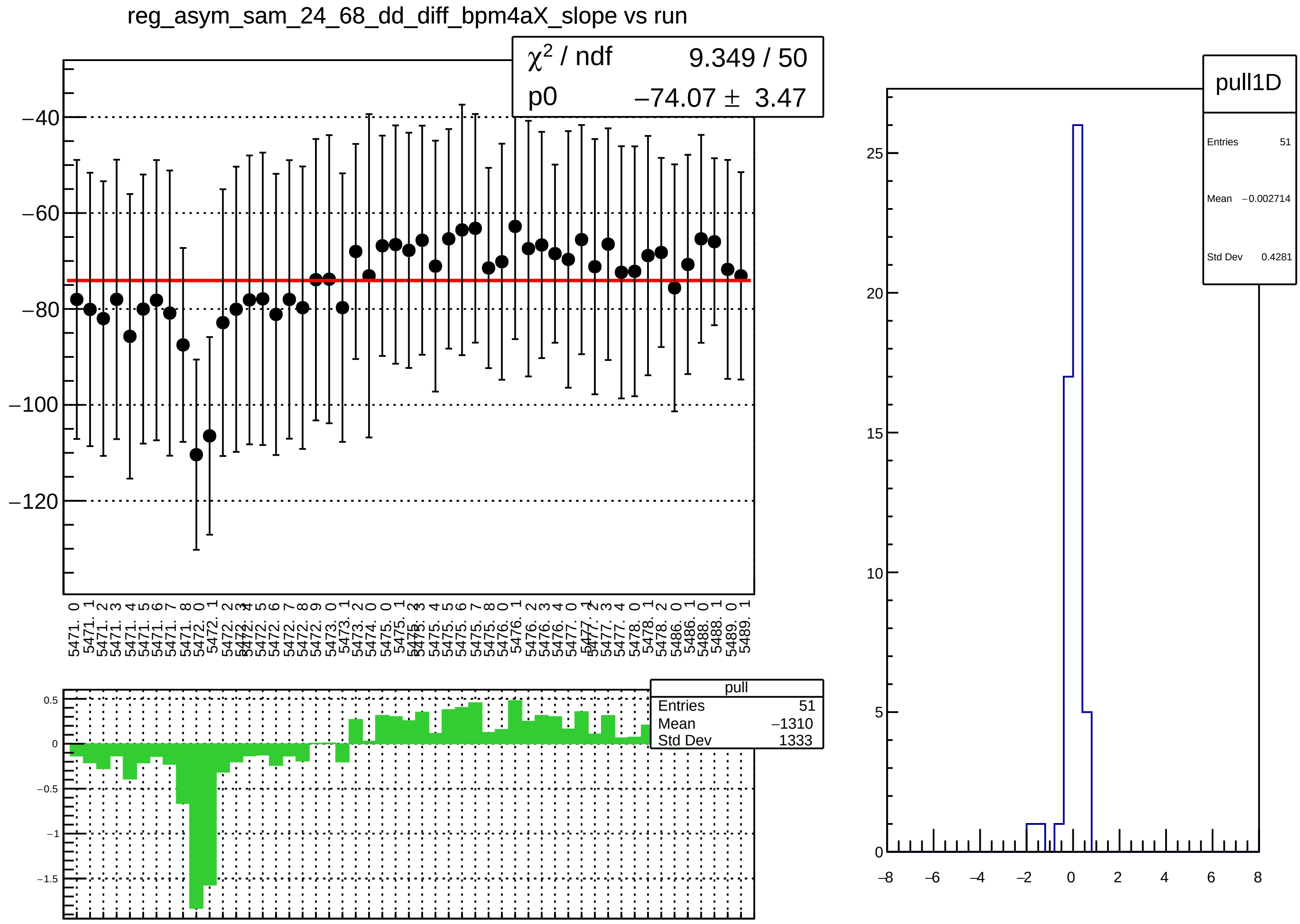


reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ2 / ndf 27.74 / 50
p0 25.78 ± 1.215
pull
Entries 51
Mean −2666
Std Dev 2687
pull1D
Entries 51
Mean −0.002458
Std Dev 0.7375

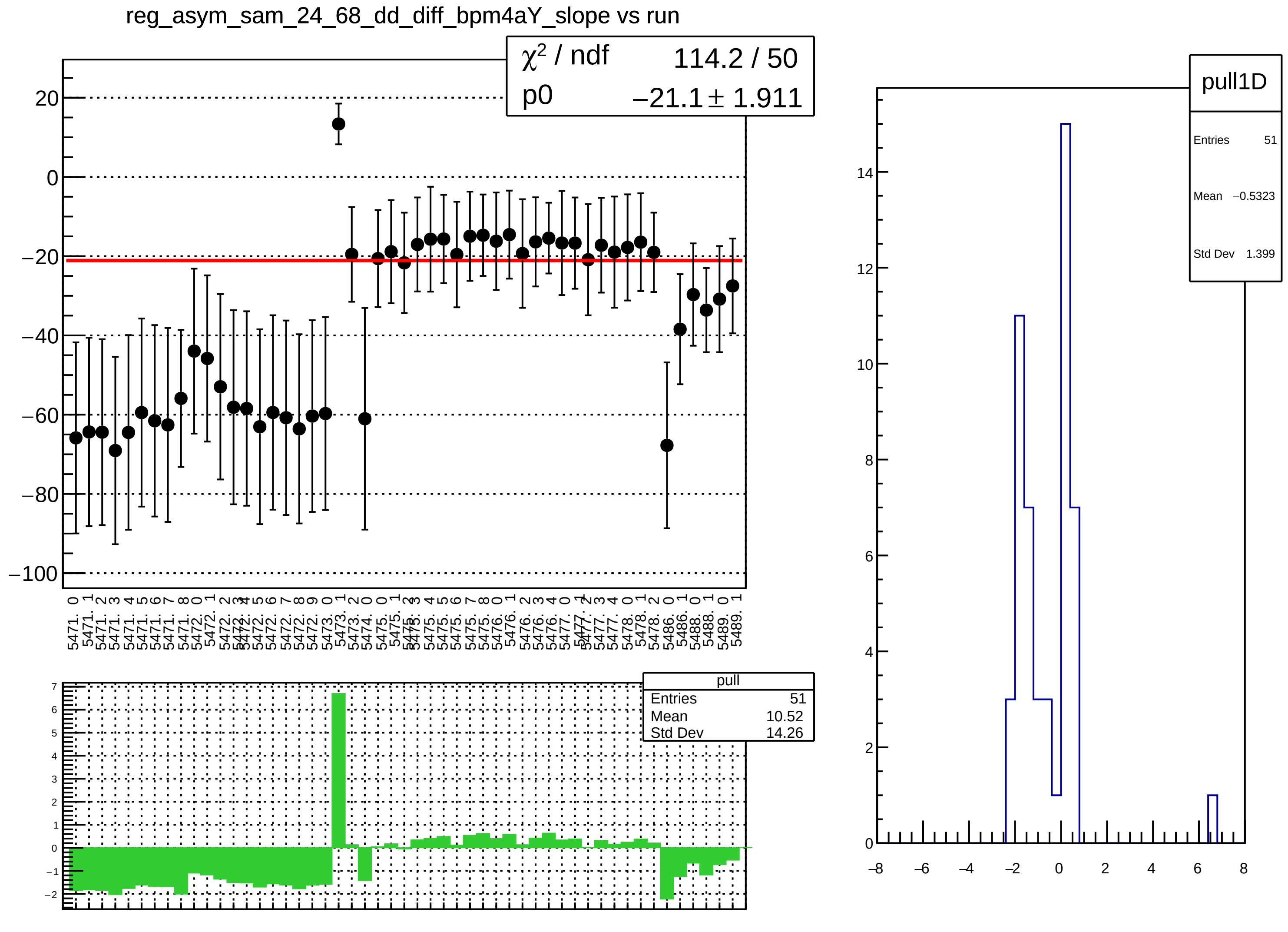

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 32.99 / 50
p0 2.263 ± 0.8749
pull
Entries 51
Mean 9.359
Std Dev 8.925
pull1D
Entries 51
Mean 0.2657
Std Dev 0.7591



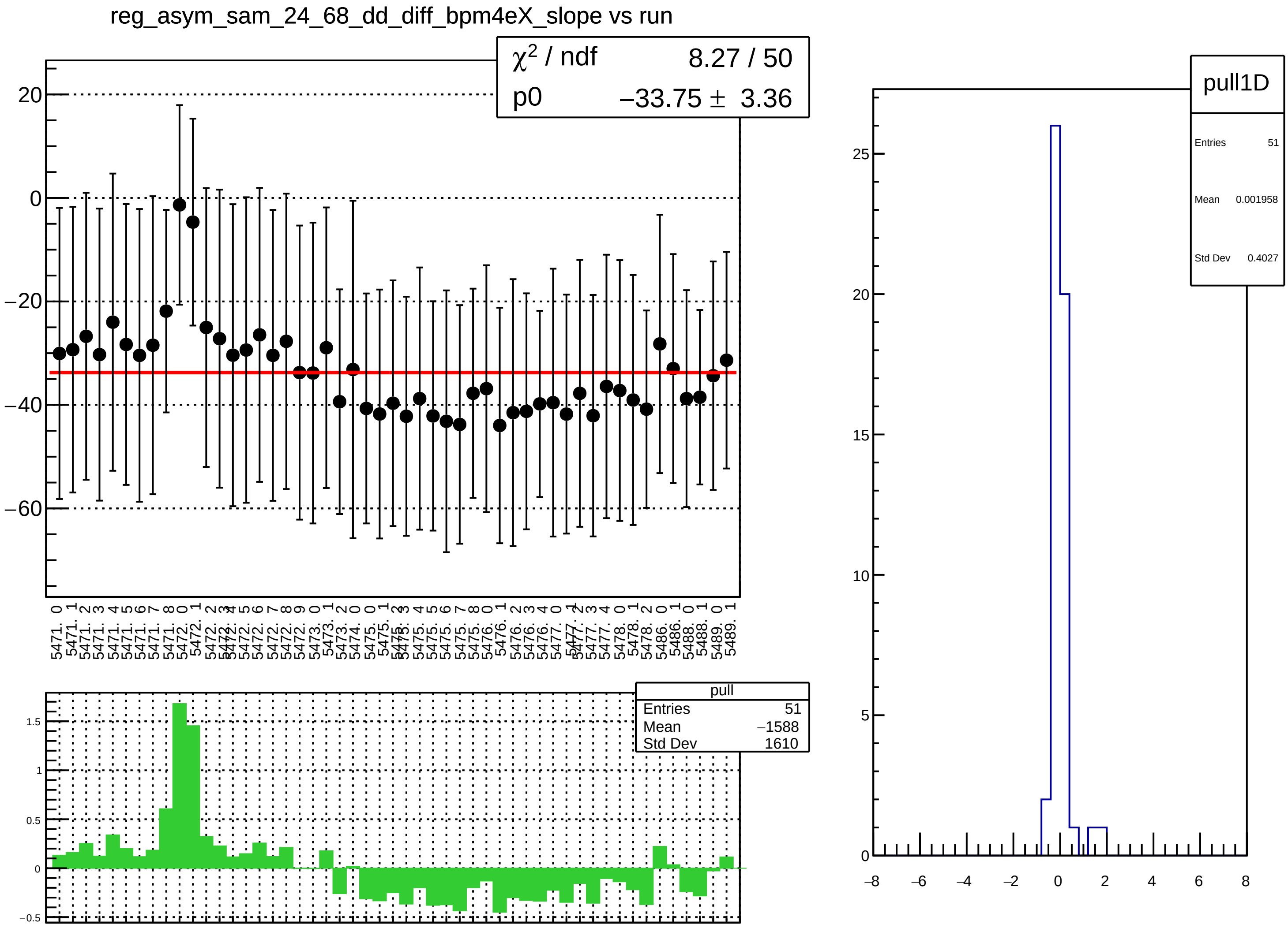
reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ^2 / ndf 2.589 / 50
p0 0.2986 ± 0.03079
pull
Entries 51
Mean −59.22
Std Dev 89.35
pull1D
Entries 51
Mean 0.008214
Std Dev 0.2252



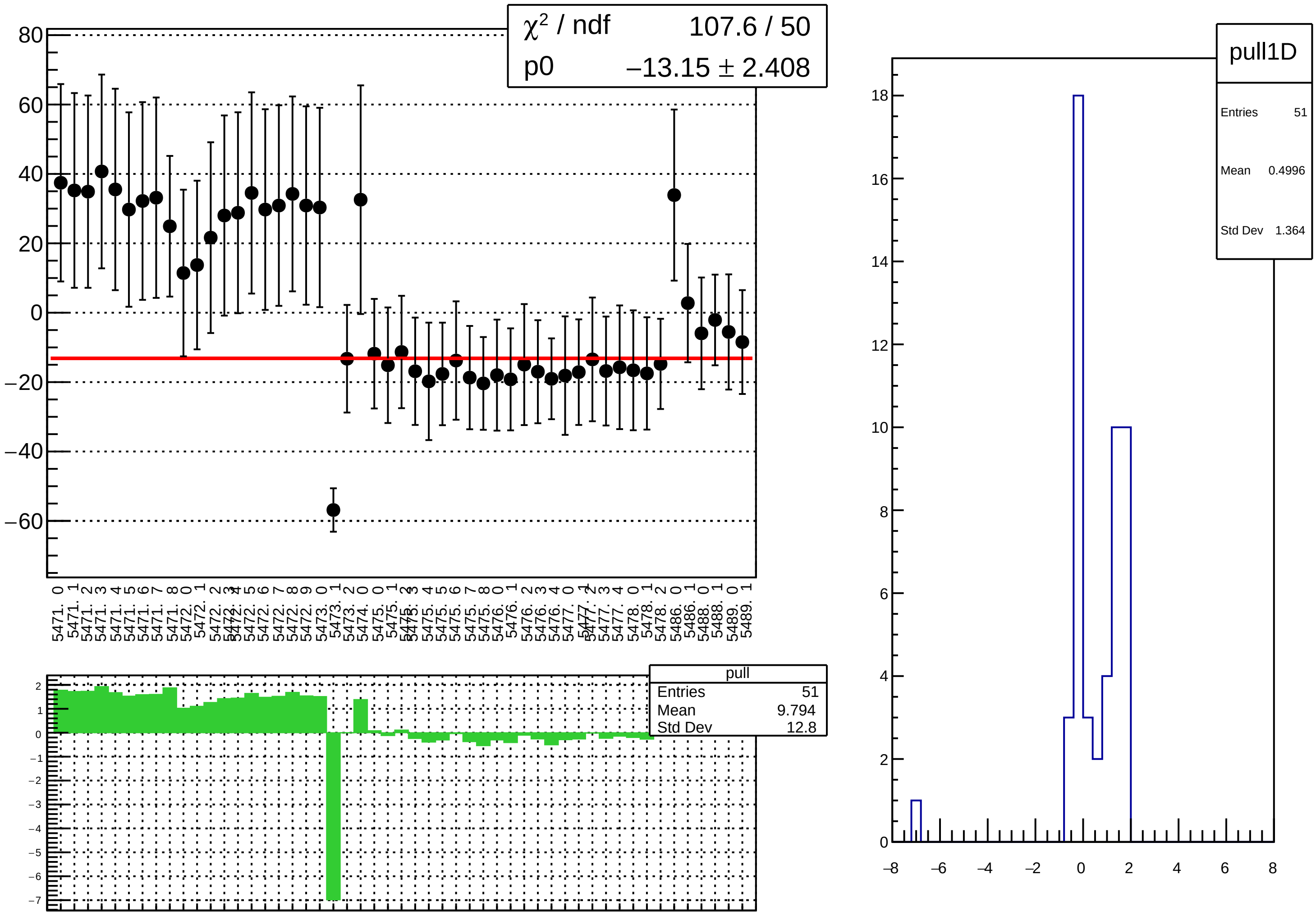
reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 9.349 / 50
p0 −74.07 ± 3.47
pull
Entries 51
Mean −1310
Std Dev 1333
pull1D
Entries 51
Mean −0.002714
Std Dev 0.4281

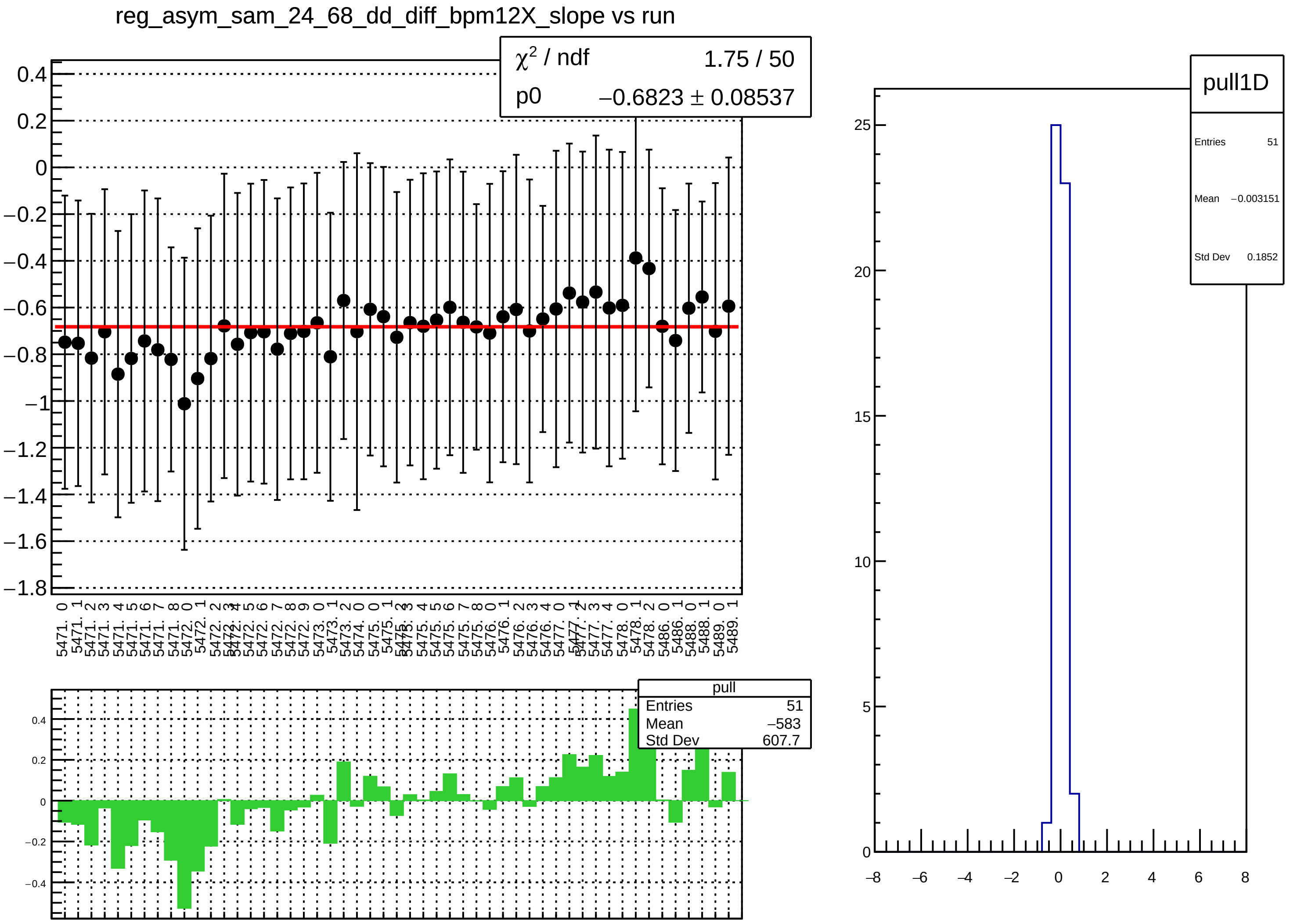


reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 114.2 / 50
p0 −21.1 ± 1.911
pull
Entries 51
Mean 10.52
Std Dev 14.26
pull1D
Entries 51
Mean −0.5323
Std Dev 1.399

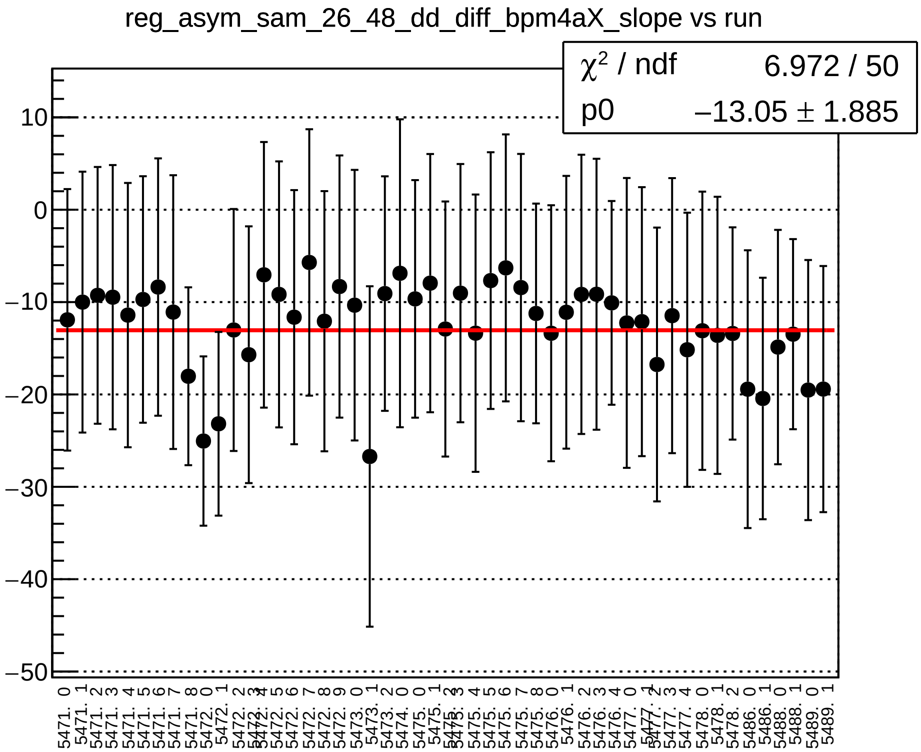

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ2 / ndf 8.27 / 50
p0 −33.75 ± 3.36
pull
Entries 51
Mean −1588
Std Dev 1610
pull1D
Entries 51
Mean 0.001958
Std Dev 0.4027

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run

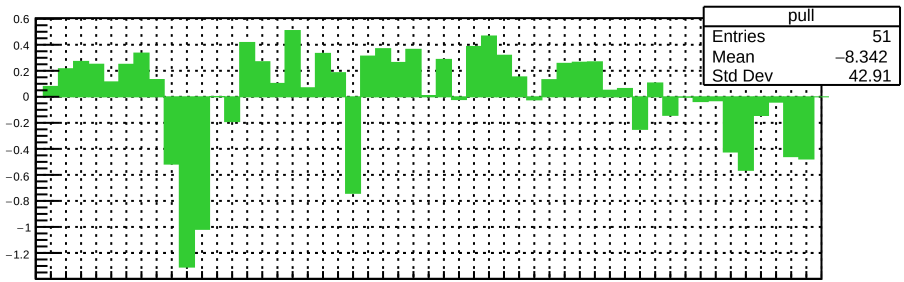




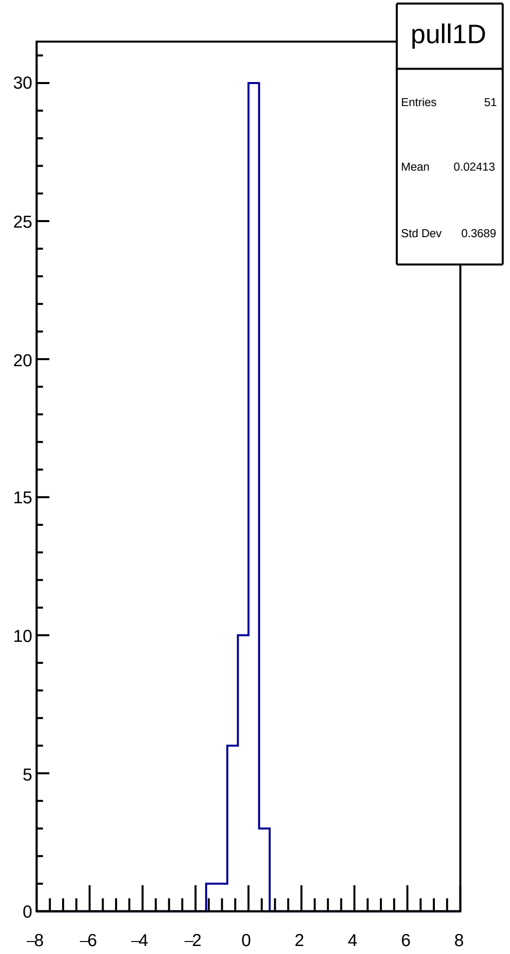
reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ2 / ndf 1.75 / 50
p0 −0.6823 ± 0.08537
pull
Entries 51
Mean −583
Std Dev 607.7
pull1D
Entries 51
Mean −0.003151
Std Dev 0.1852



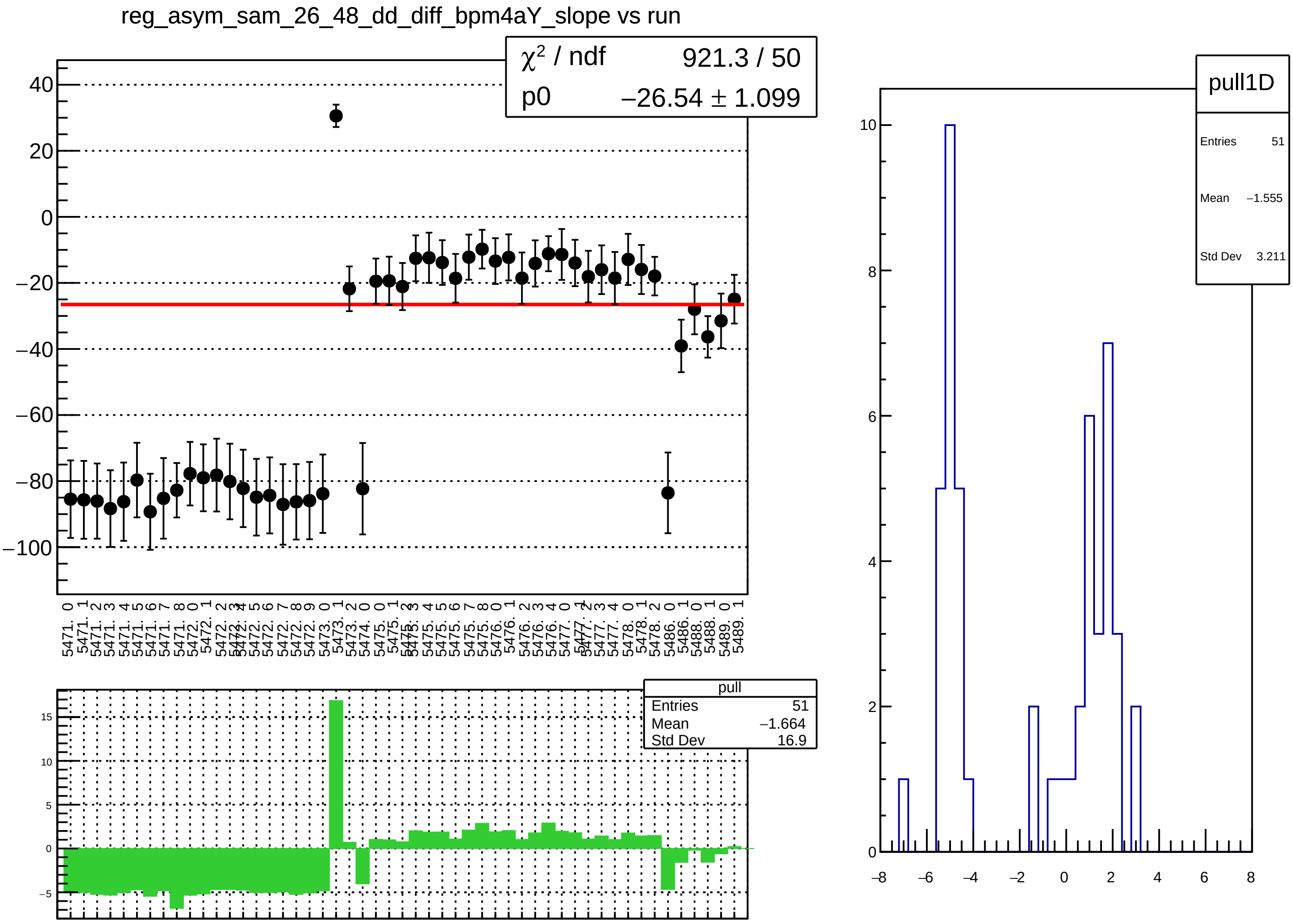
reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 6.972 / 50
p0 −13.05 ± 1.885



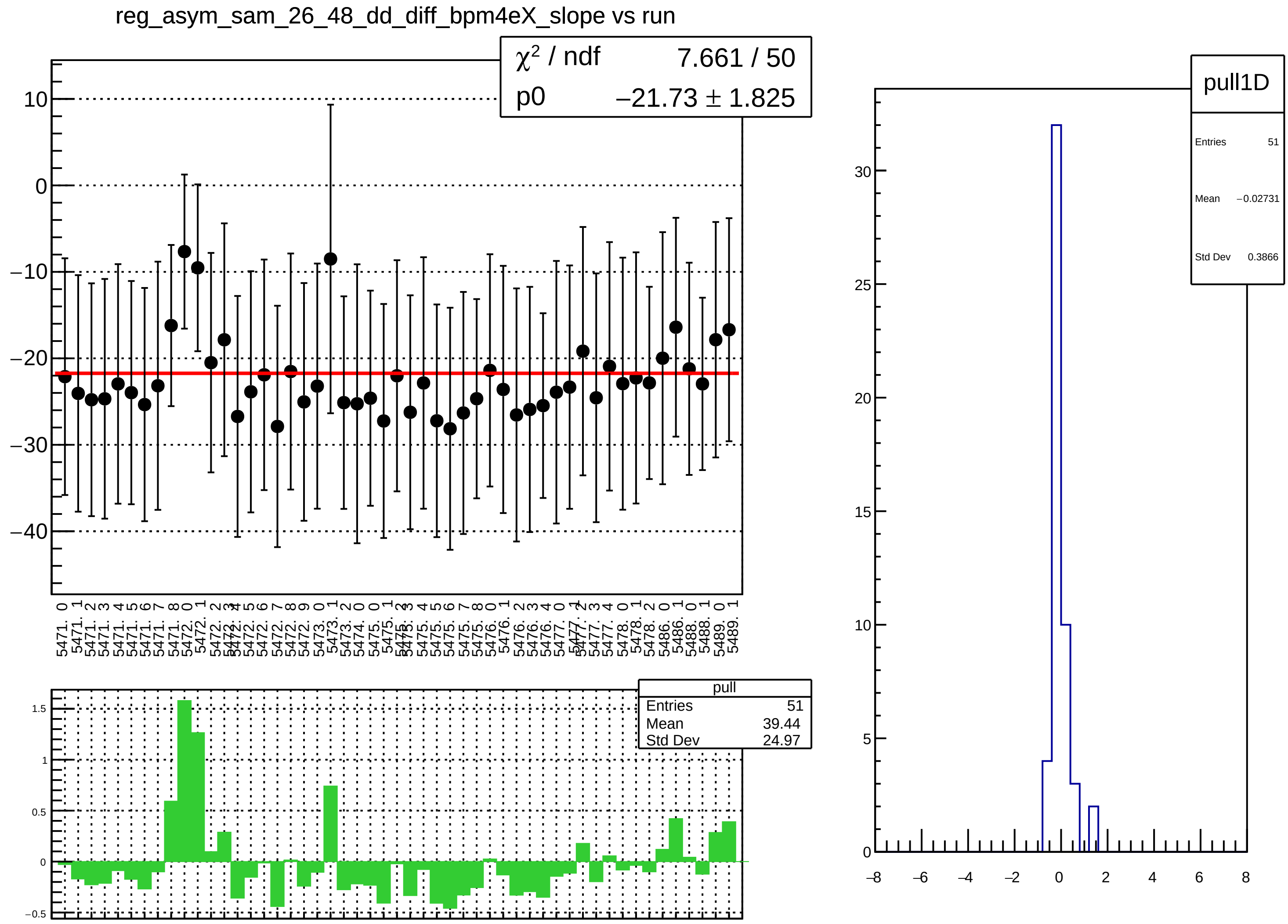
pull
Entries 51
Mean −8.342
Std Dev 42.91



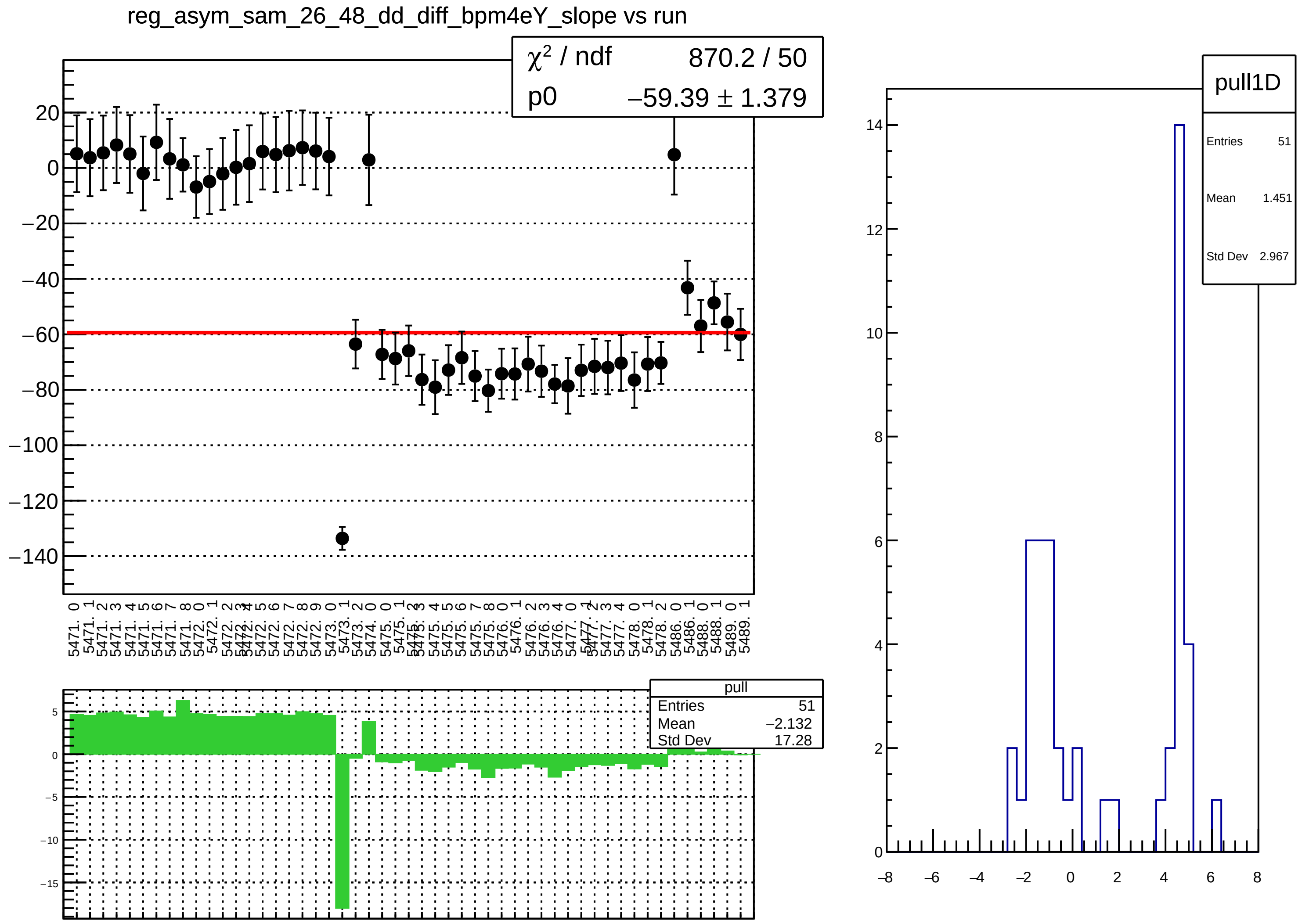
pull1D
Entries 51
Mean 0.02413
Std Dev 0.3689



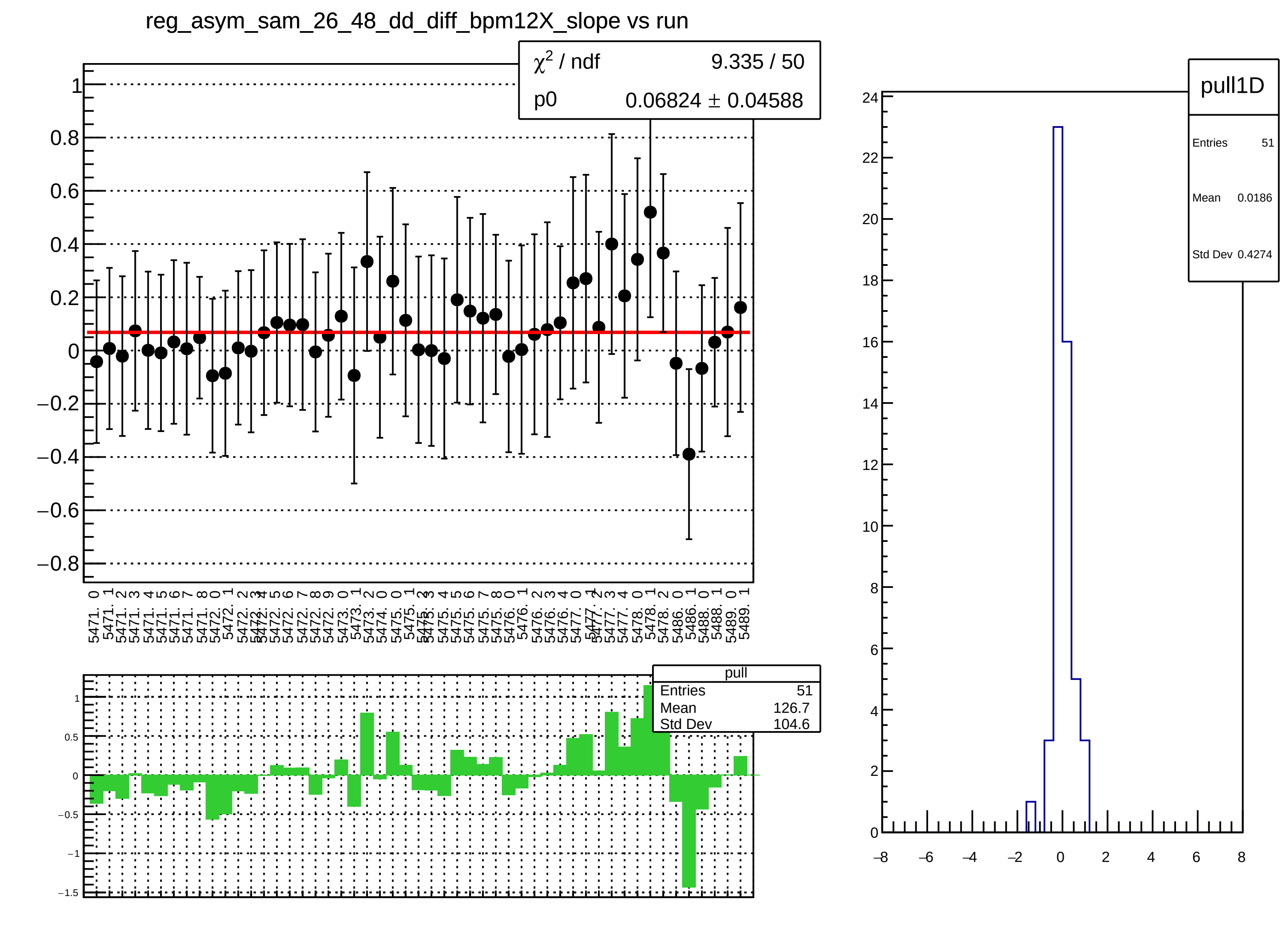
reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 921.3 / 50
p0 −26.54 ± 1.099
pull
Entries 51
Mean −1.664
Std Dev 16.9
pull1D
Entries 51
Mean −1.555
Std Dev 3.211

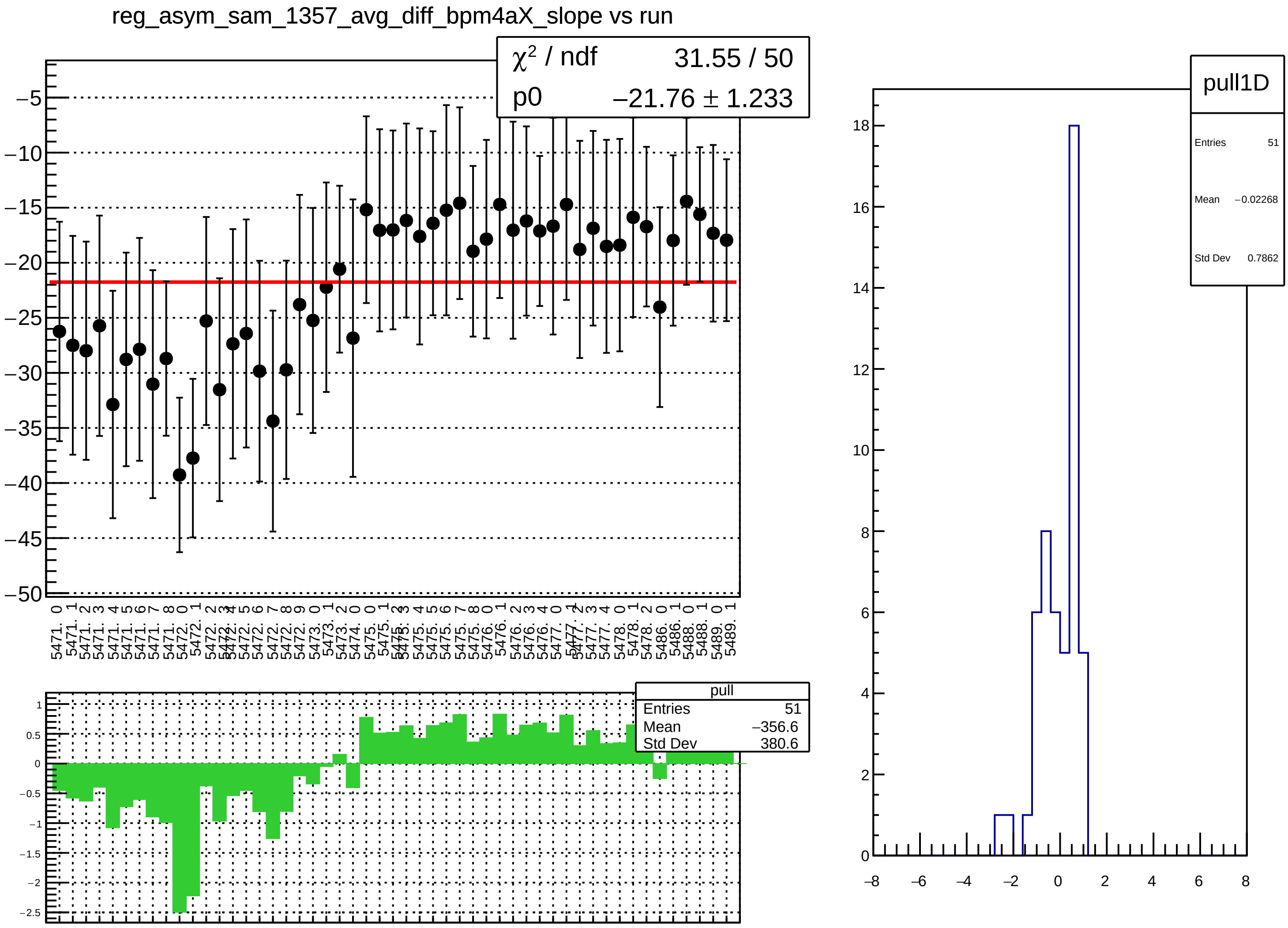


reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ2 / ndf 7.661 / 50
p0 −21.73 ± 1.825
pull
Entries 51
Mean 39.44
Std Dev 24.97
pull1D
Entries 51
Mean −0.02731
Std Dev 0.3866

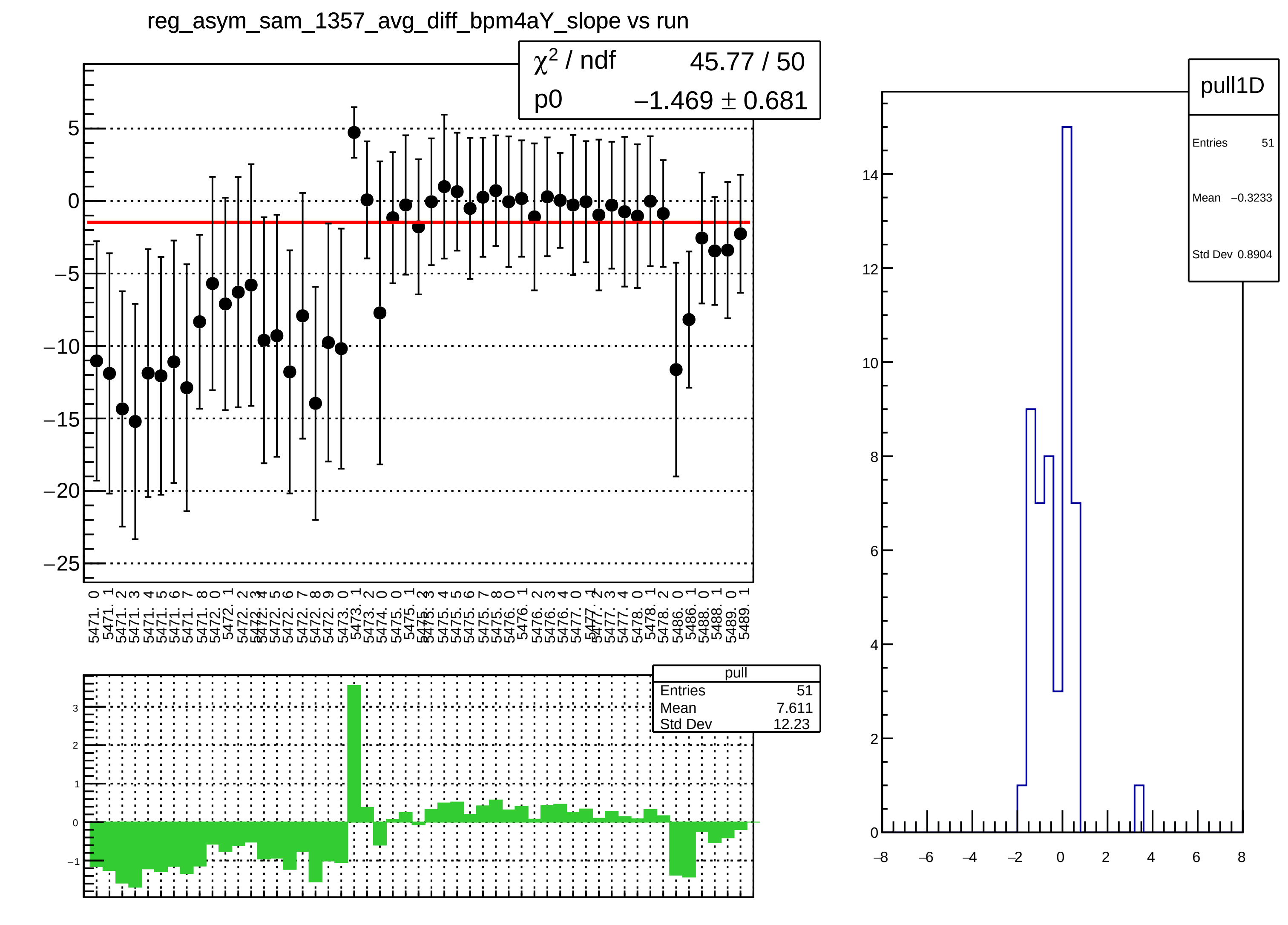


reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ2 / ndf 870.2 / 50
p0 −59.39 ± 1.379
pull
Entries 51
Mean −2.132
Std Dev 17.28
pull1D
Entries 51
Mean 1.451
Std Dev 2.967

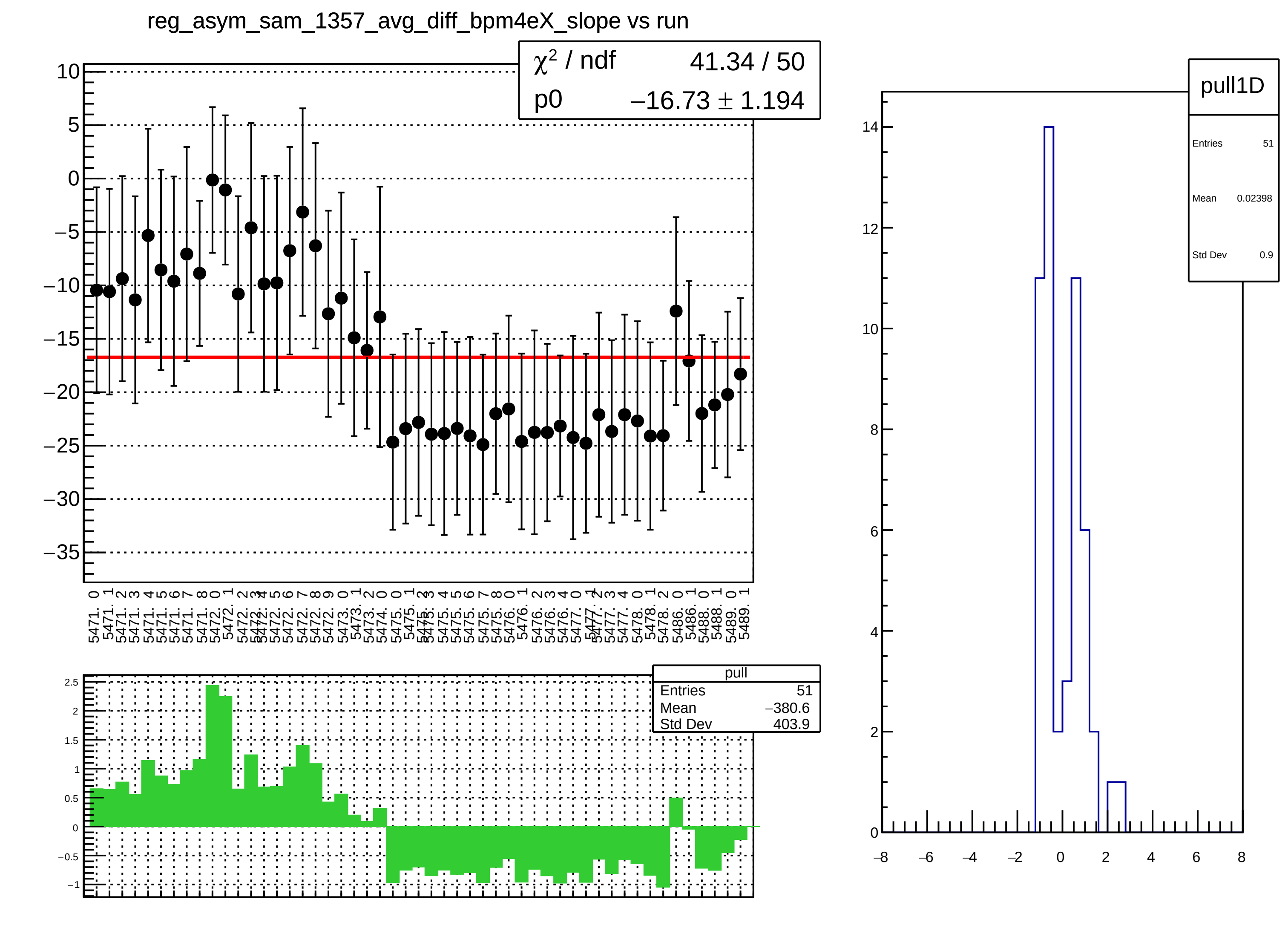

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ^2 / ndf 9.335 / 50
p0 0.06824 ± 0.04588
pull
Entries 51
Mean 126.7
Std Dev 104.6
pull1D
Entries 51
Mean 0.0186
Std Dev 0.4274

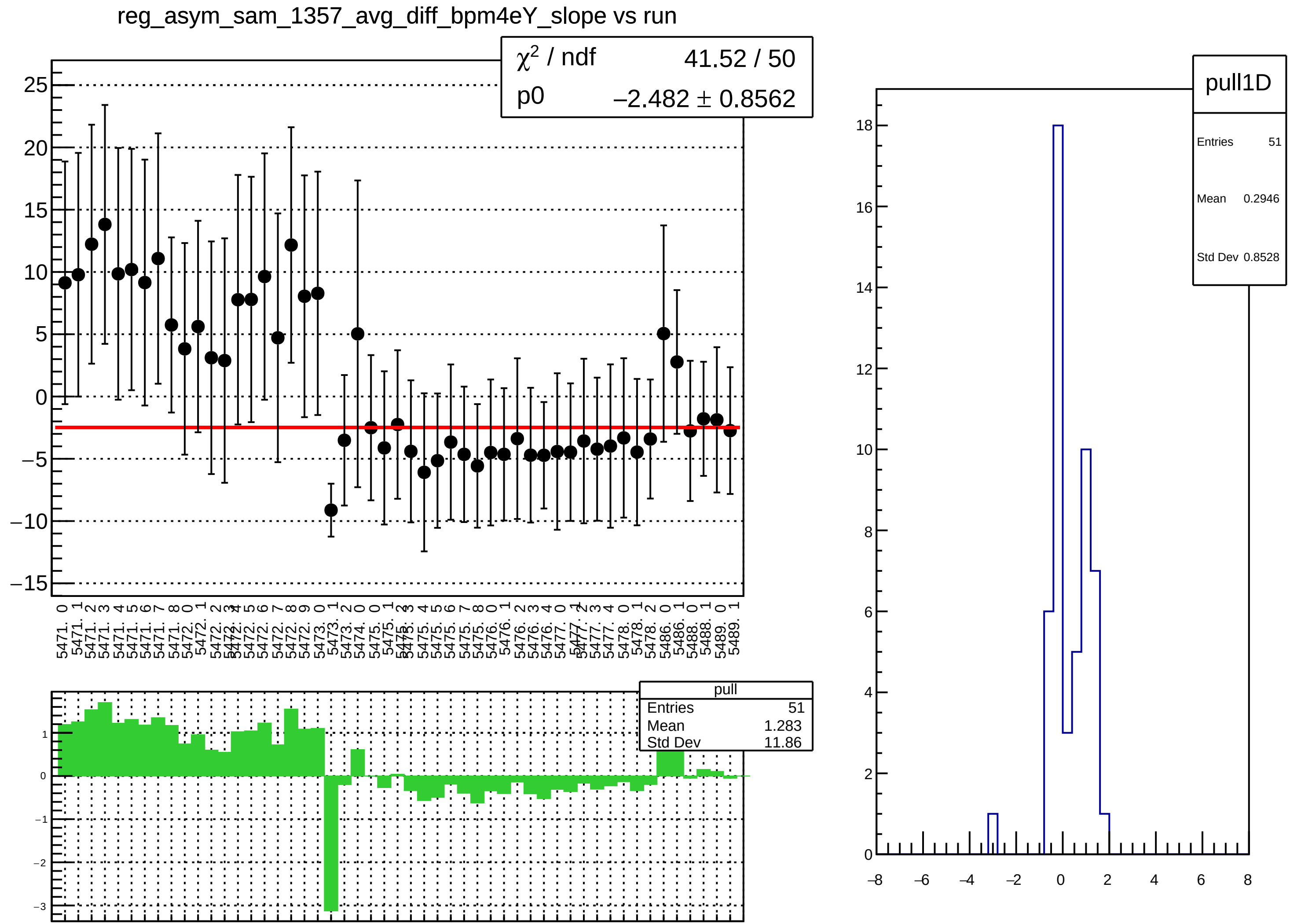


reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ2 / ndf 31.55 / 50
p0 −21.76 ± 1.233
pull
Entries 51
Mean −356.6
Std Dev 380.6
pull1D
Entries 51
Mean −0.02268
Std Dev 0.7862



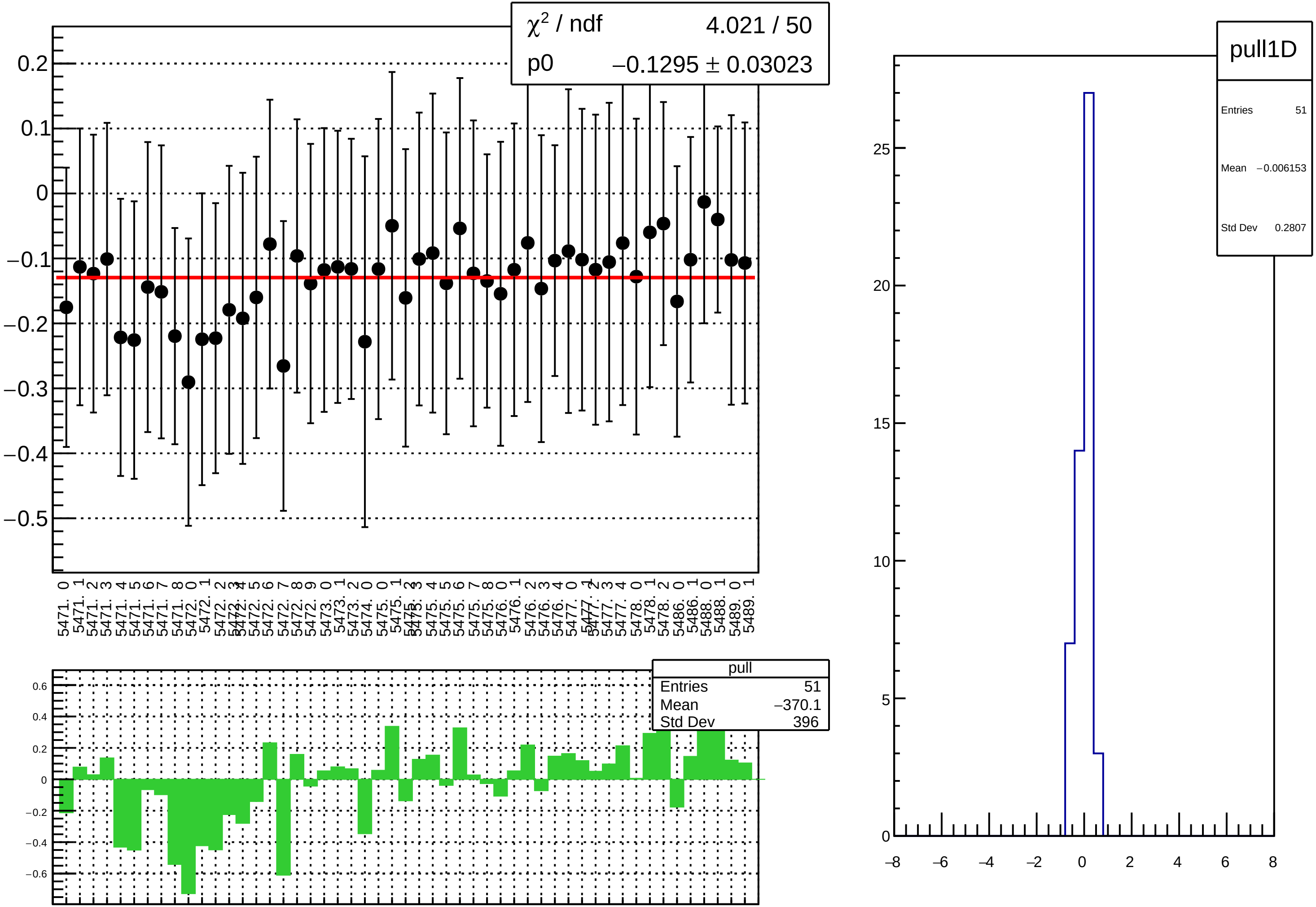
reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ2 / ndf 45.77 / 50
p0 −1.469 ± 0.681
pull
Entries 51
Mean 7.611
Std Dev 12.23
pull1D
Entries 51
Mean −0.3233
Std Dev 0.8904

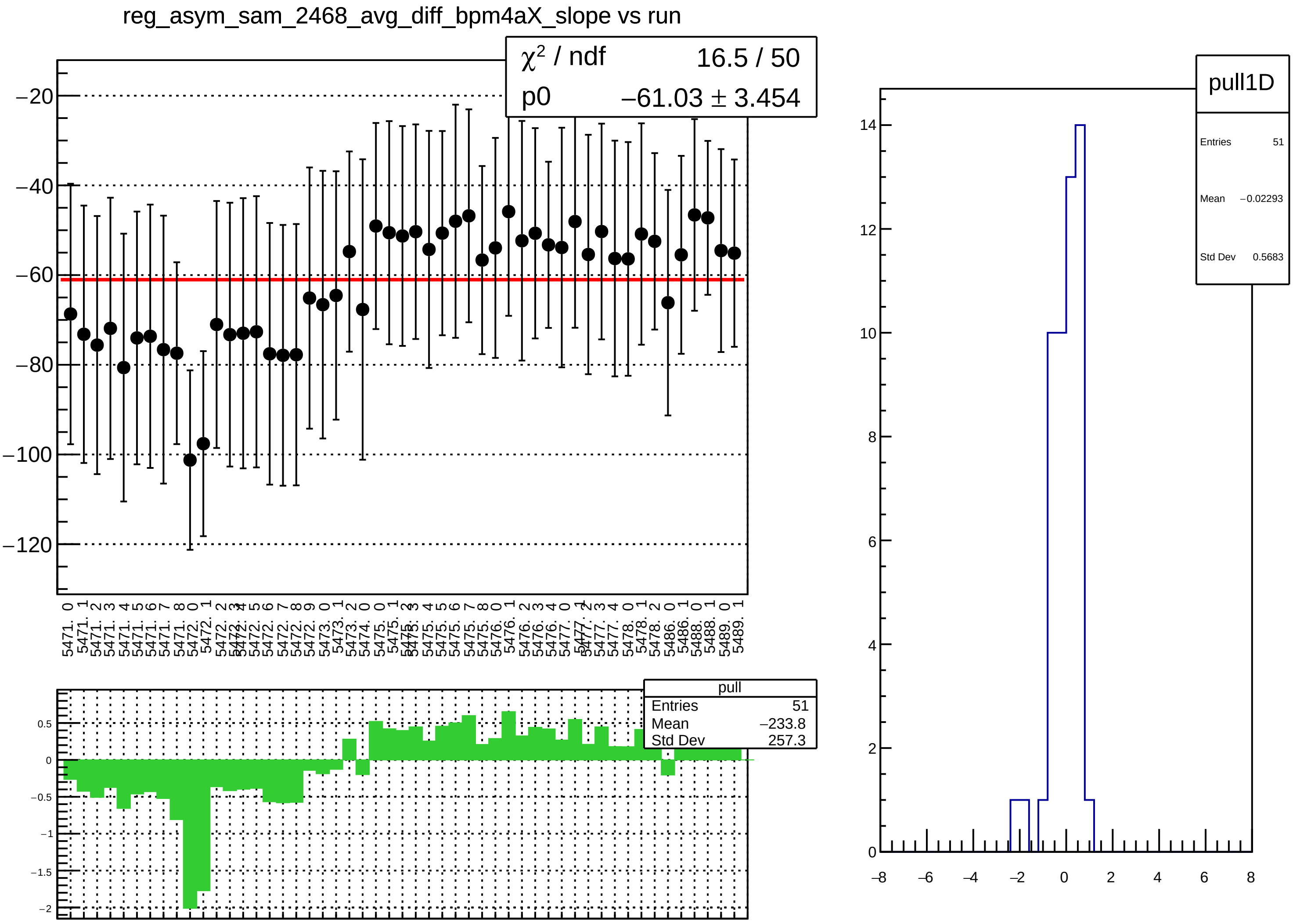

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 41.34 / 50
p0 −16.73 ± 1.194
pull
Entries 51
Mean −380.6
Std Dev 403.9
pull1D
Entries 51
Mean 0.02398
Std Dev 0.9



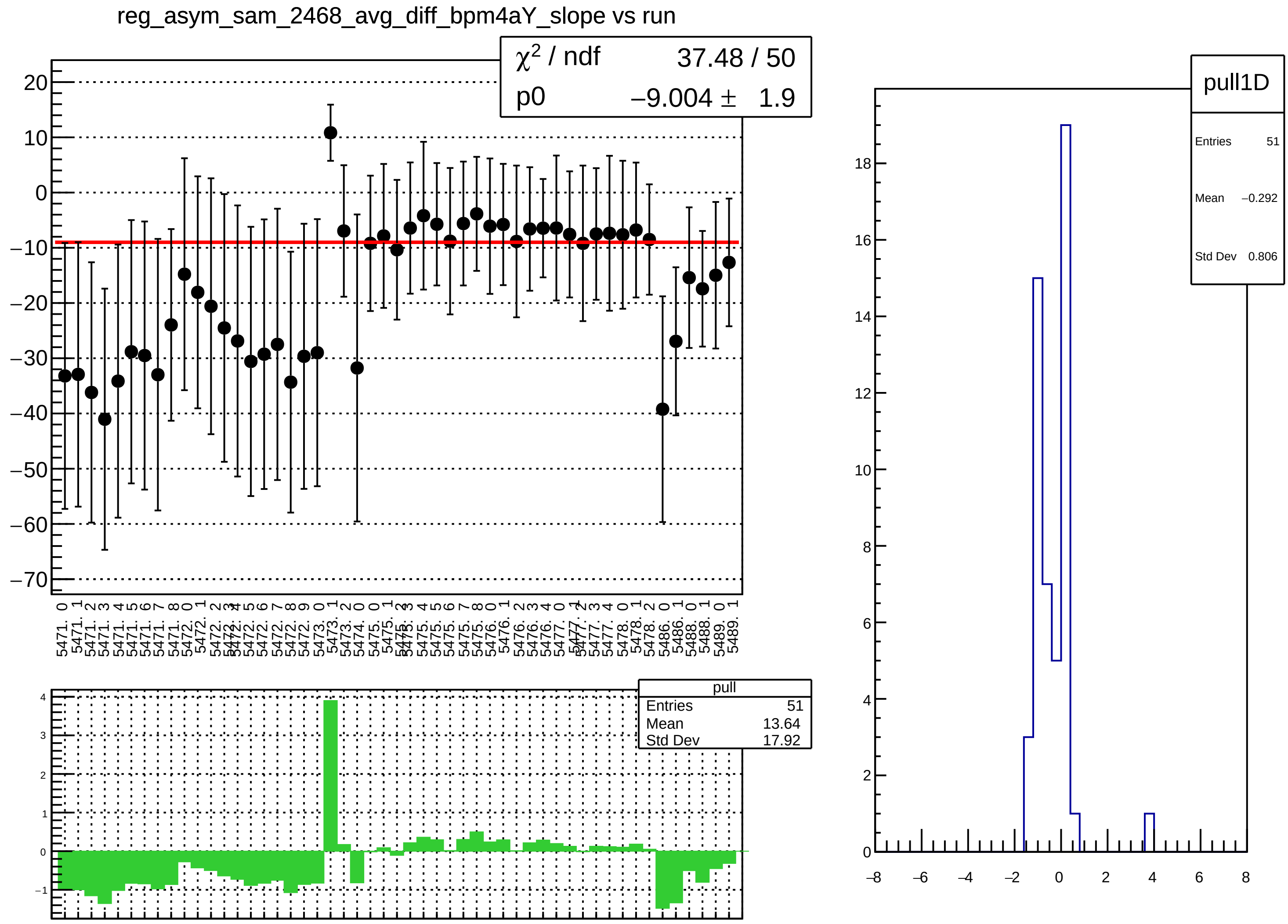
reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 41.52 / 50
p0 −2.482 ± 0.8562
pull
Entries 51
Mean 1.283
Std Dev 11.86
pull1D
Entries 51
Mean 0.2946
Std Dev 0.8528

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run

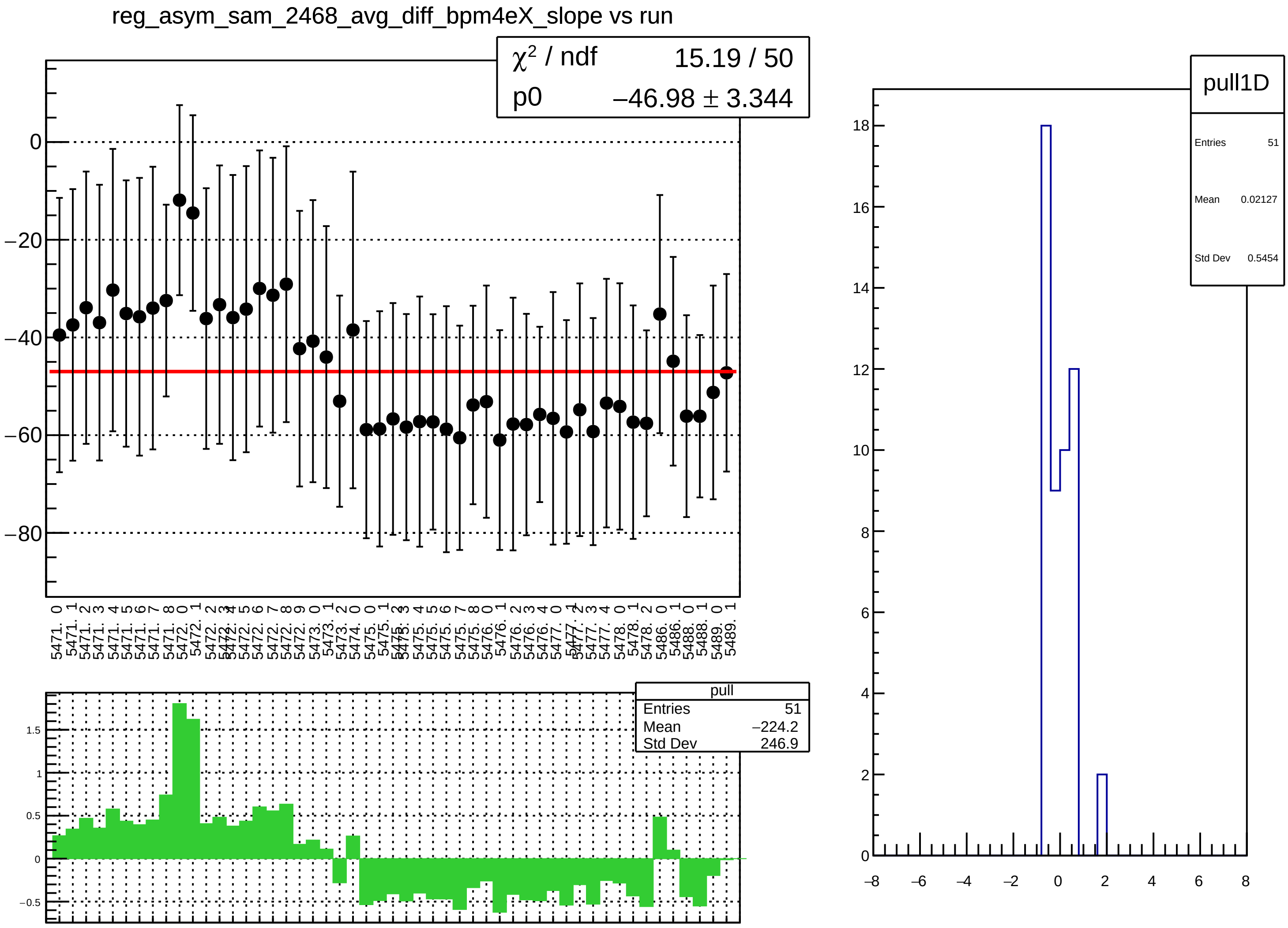




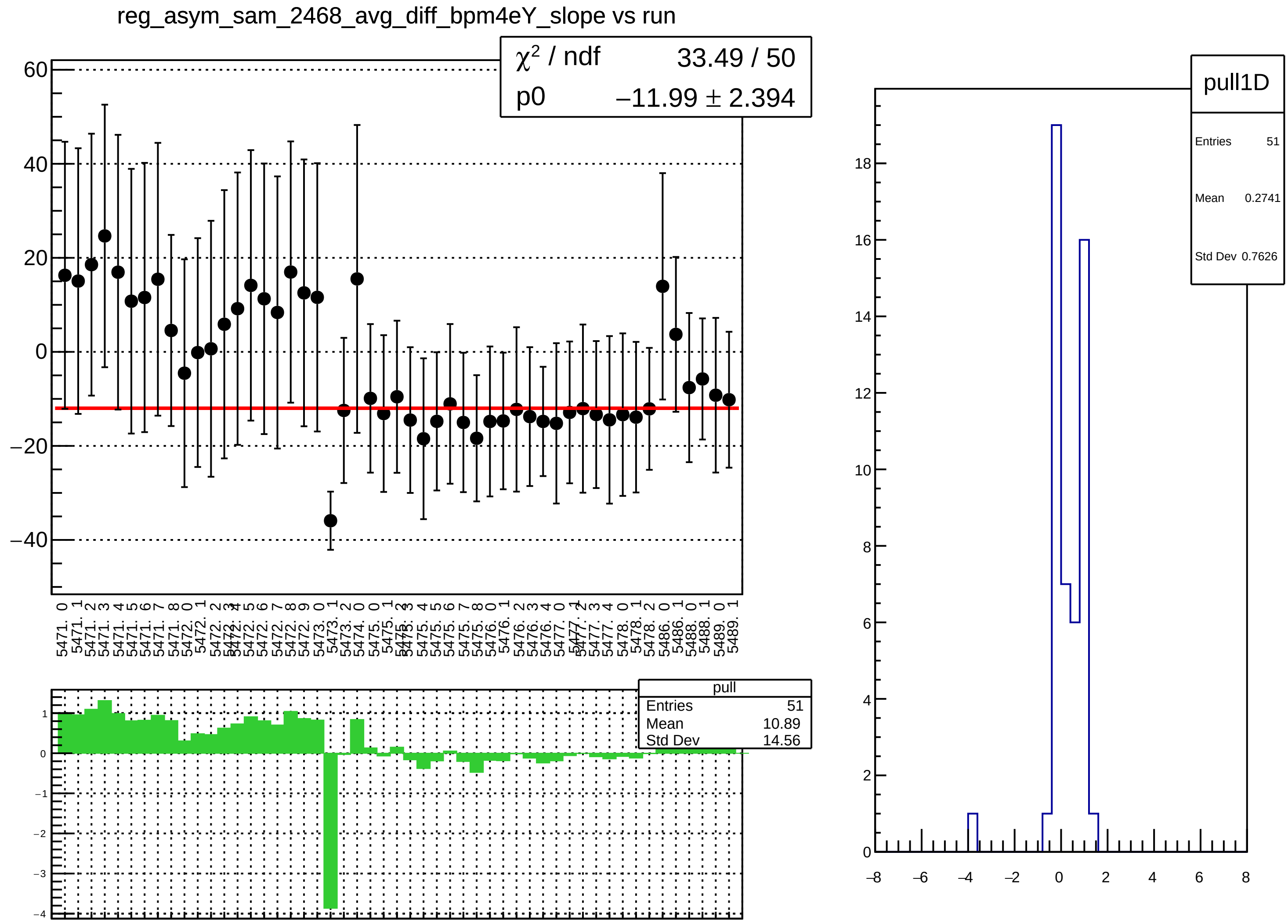
reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 16.5 / 50
p0 −61.03 ± 3.454
pull
Entries 51
Mean −233.8
Std Dev 257.3
pull1D
Entries 51
Mean −0.02293
Std Dev 0.5683



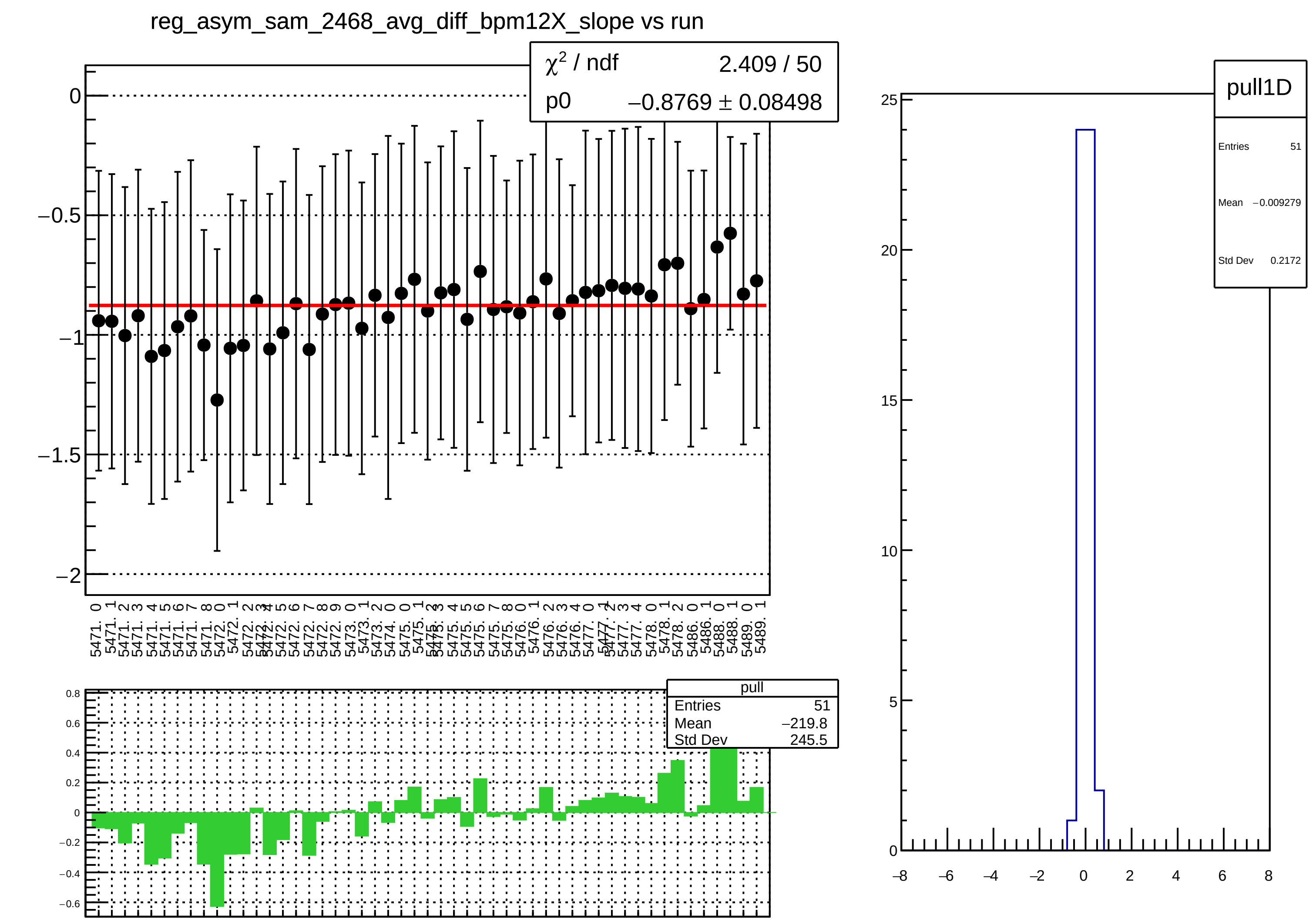
reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 37.48 / 50
p0 −9.004 ± 1.9
pull
Entries 51
Mean 13.64
Std Dev 17.92
pull1D
Entries 51
Mean −0.292
Std Dev 0.806

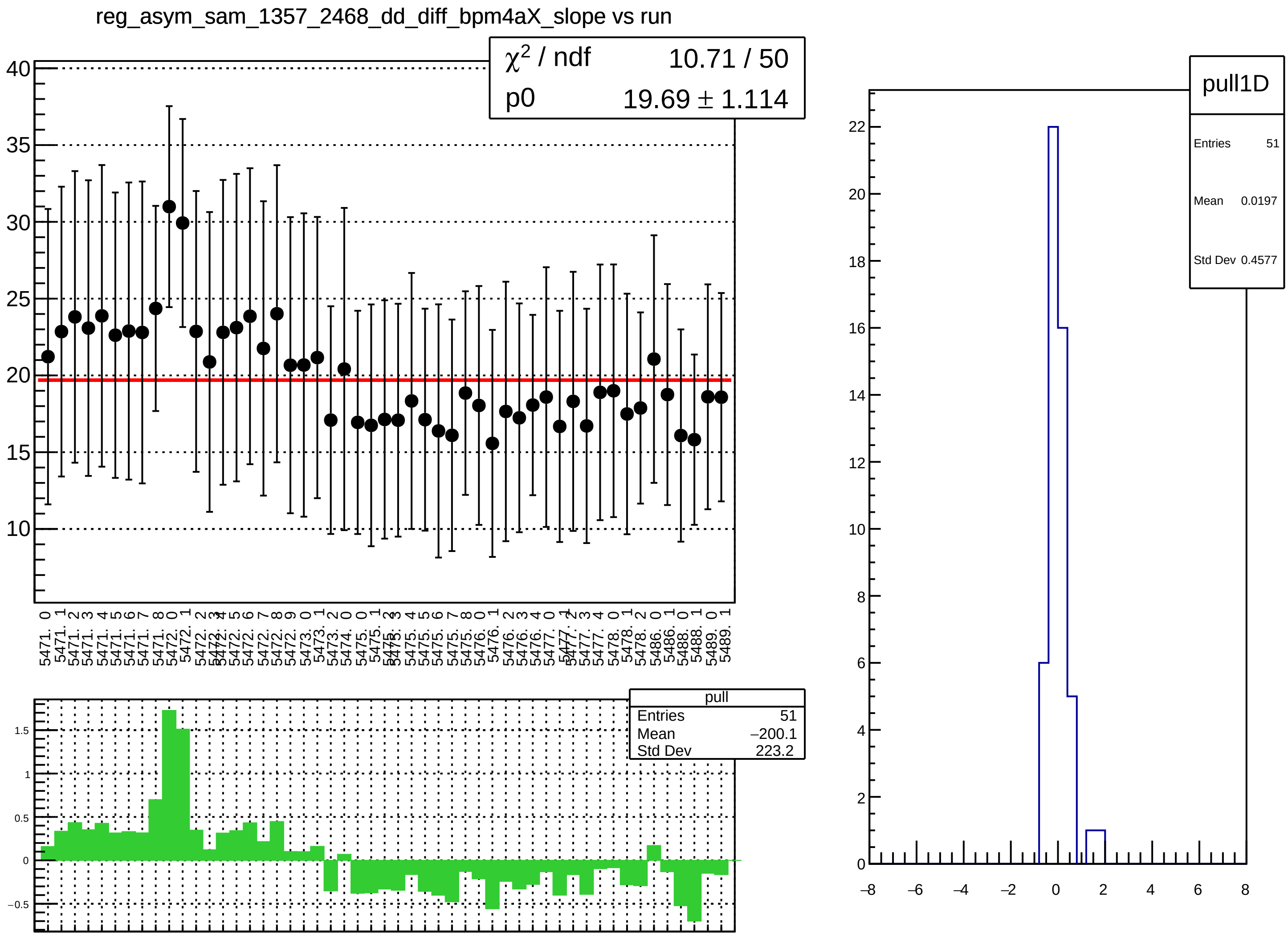


reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 15.19 / 50
p0 −46.98 ± 3.344
pull
Entries 51
Mean −224.2
Std Dev 246.9
pull1D
Entries 51
Mean 0.02127
Std Dev 0.5454

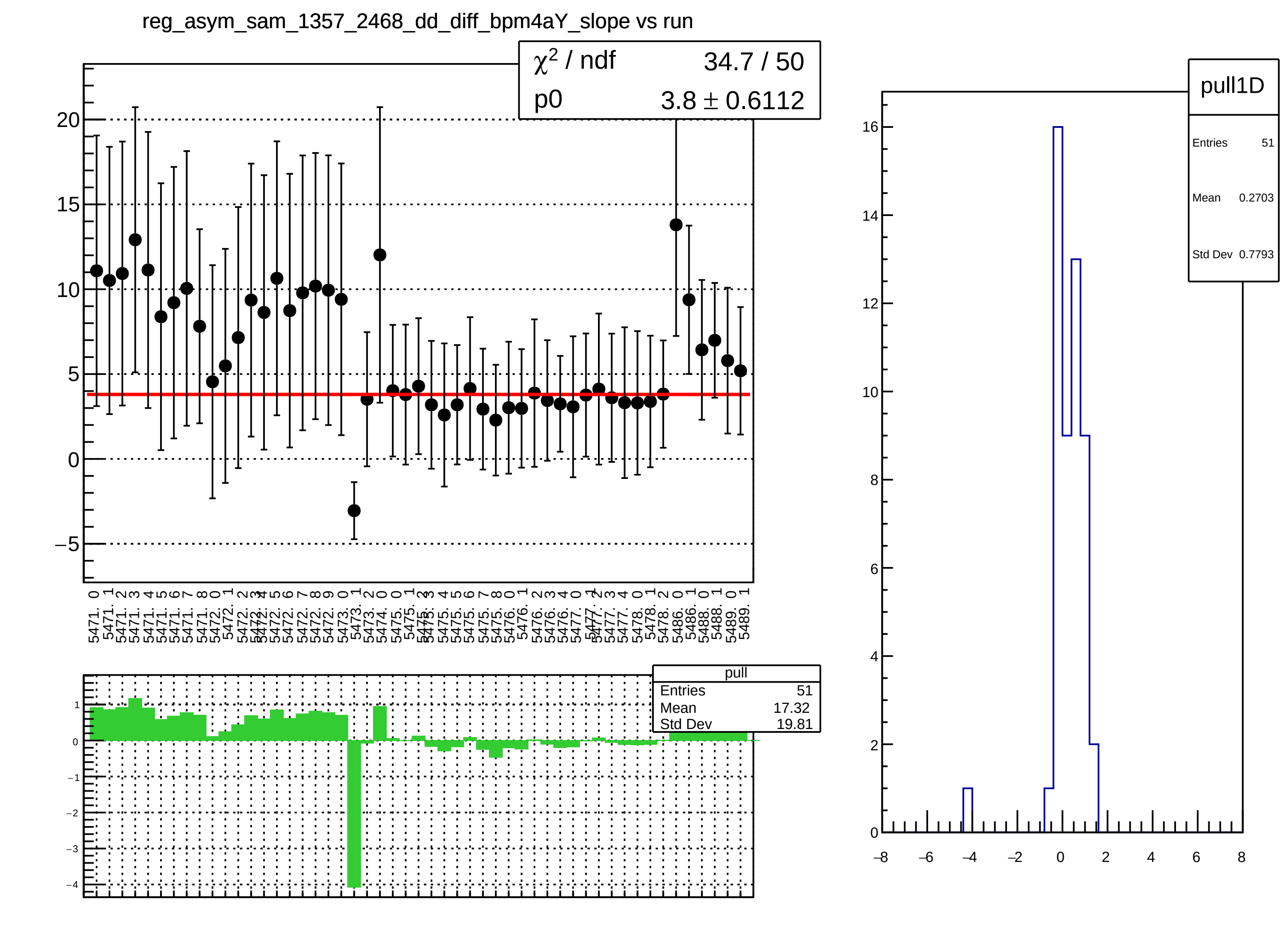


reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 33.49 / 50
p0 −11.99 ± 2.394
pull
Entries 51
Mean 10.89
Std Dev 14.56
pull1D
Entries 51
Mean 0.2741
Std Dev 0.7626

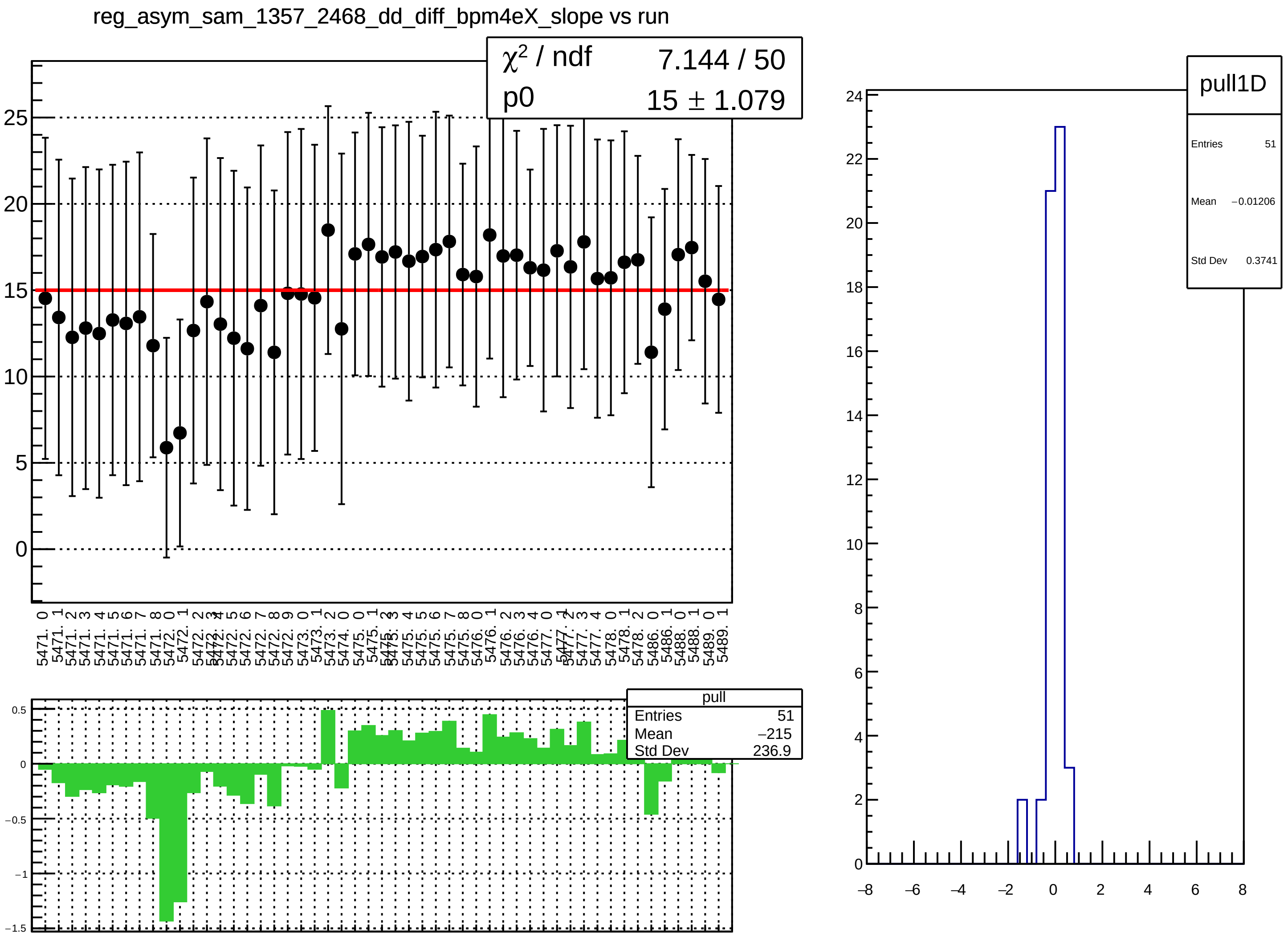

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ2 / ndf 2.409 / 50
p0 −0.8769 ± 0.08498
pull
Entries 51
Mean −219.8
Std Dev 245.5
pull1D
Entries 51
Mean −0.009279
Std Dev 0.2172

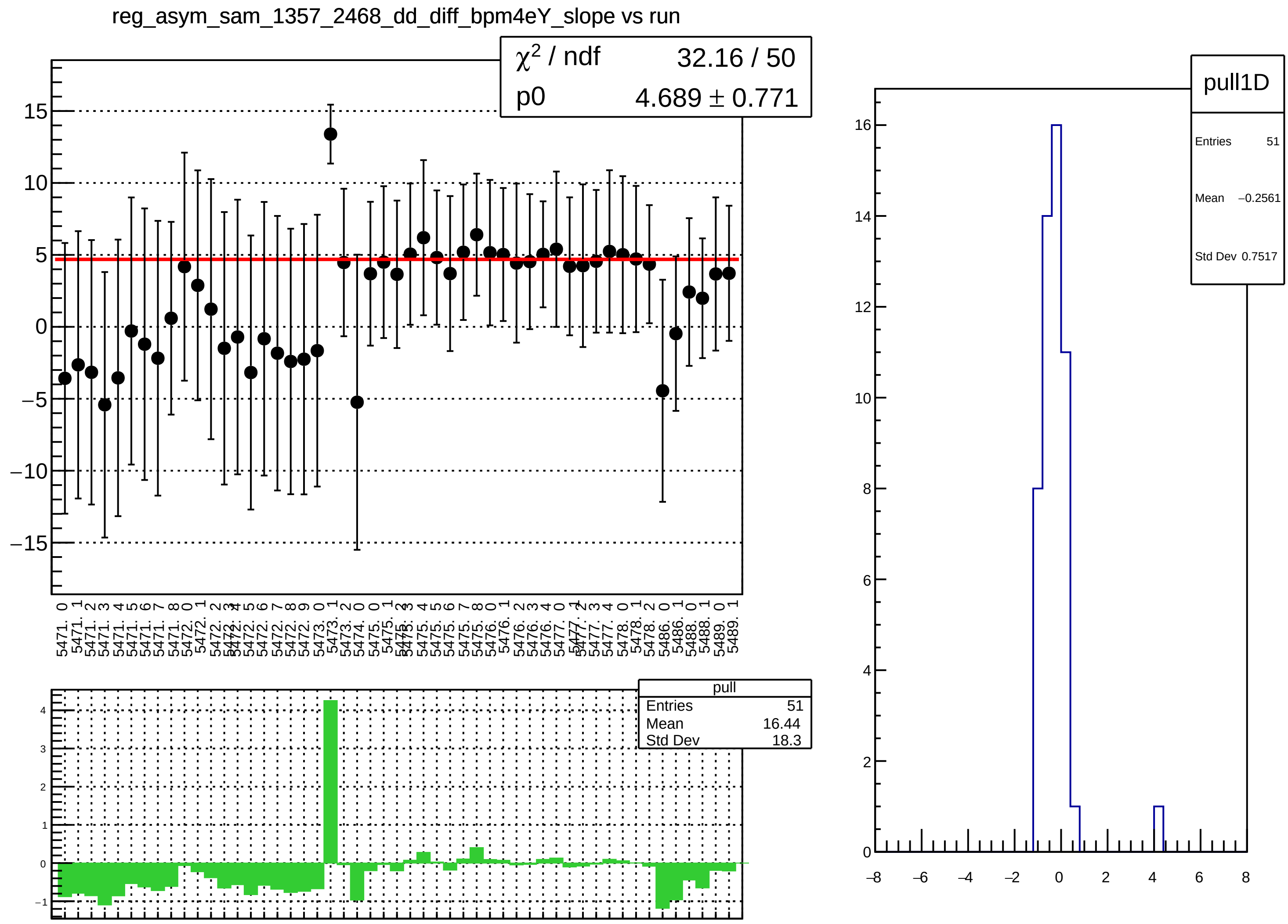


reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 10.71 / 50
p0 19.69 ± 1.114
pull
Entries 51
Mean −200.1
Std Dev 223.2
pull1D
Entries 51
Mean 0.0197
Std Dev 0.4577



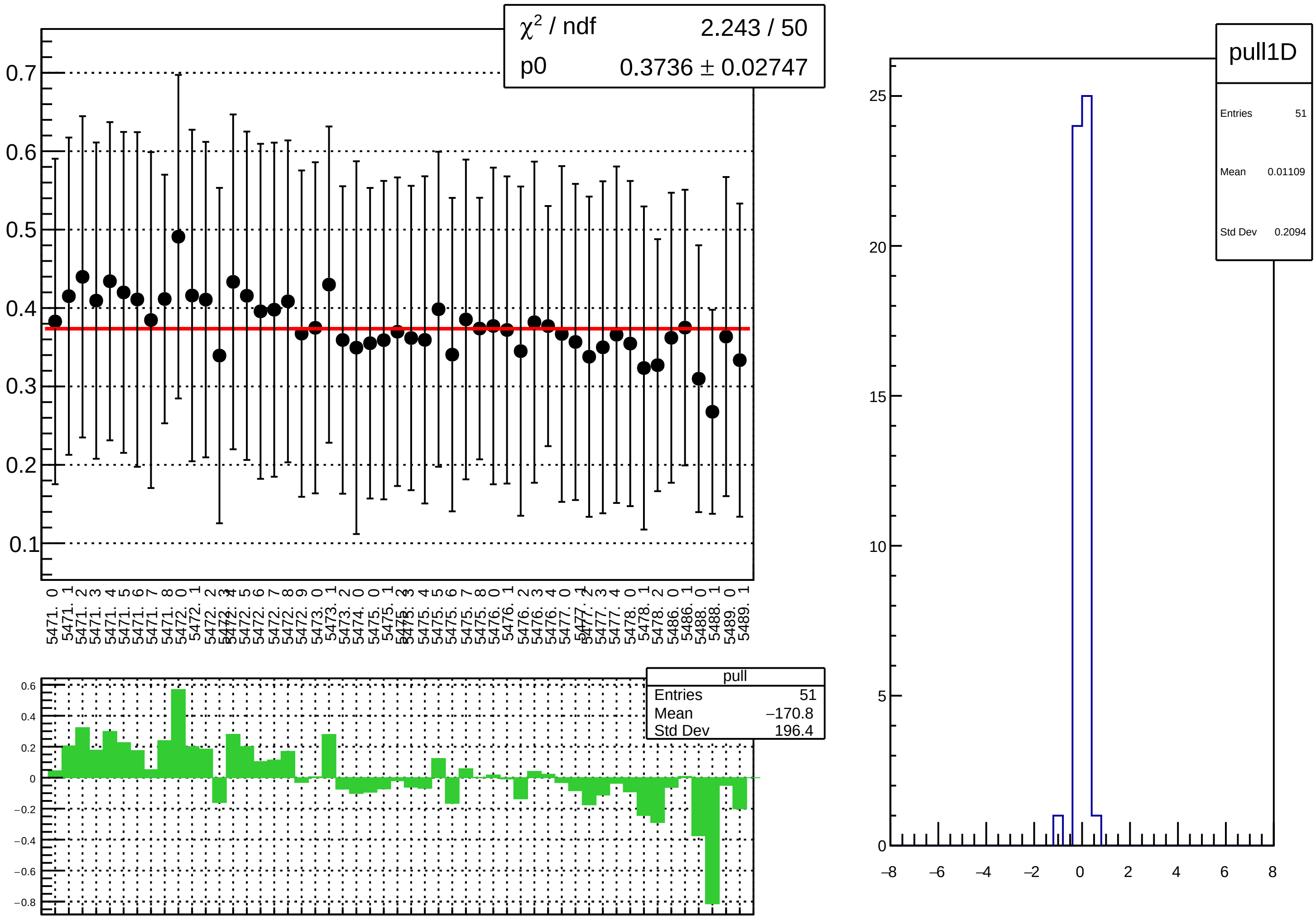
reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 34.7 / 50
p0 3.8 ± 0.6112
pull
Entries 51
Mean 17.32
Std Dev 19.81
pull1D
Entries 51
Mean 0.2703
Std Dev 0.7793

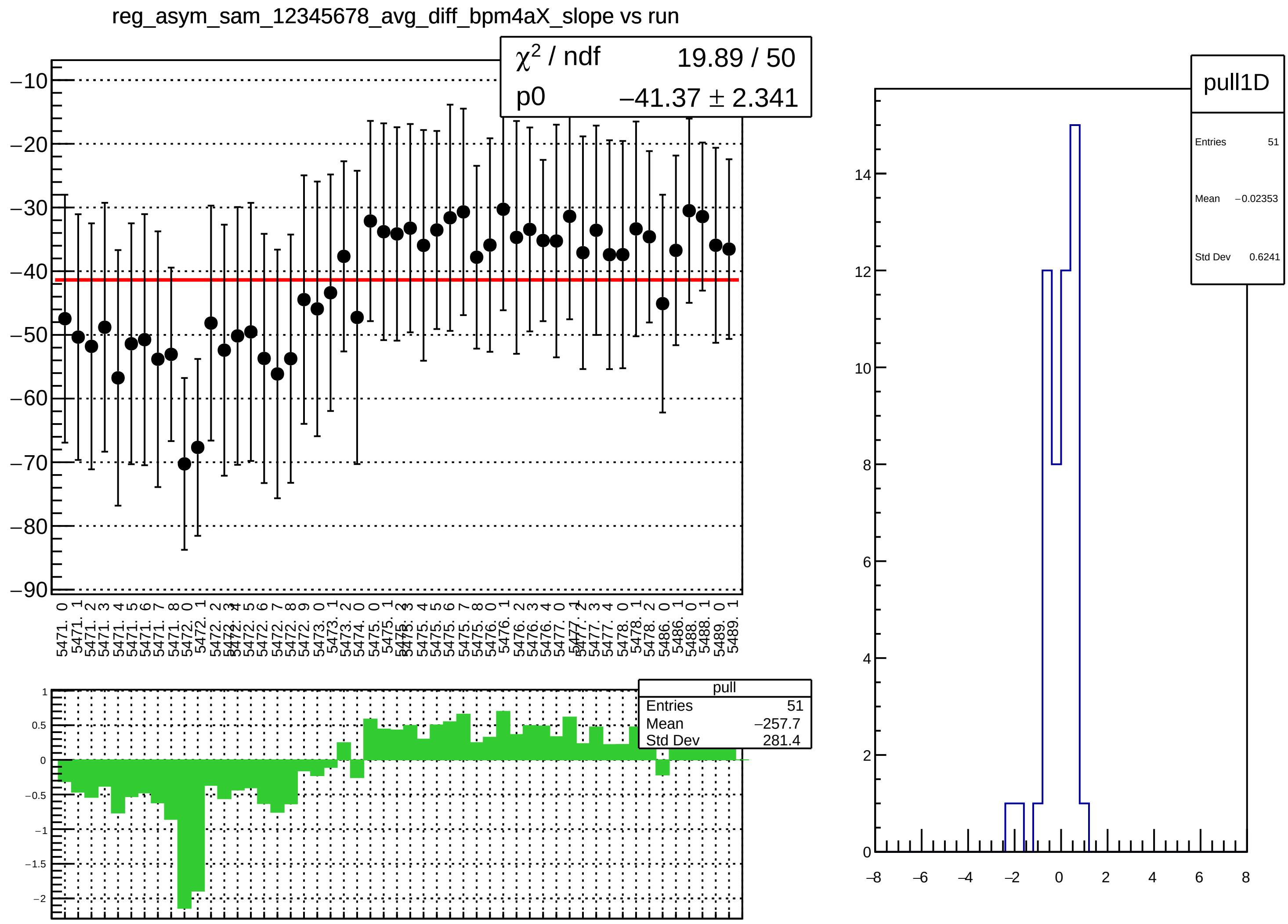

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 7.144 / 50
p0 15 ± 1.079
pull
Entries 51
Mean −215
Std Dev 236.9
pull1D
Entries 51
Mean −0.01206
Std Dev 0.3741



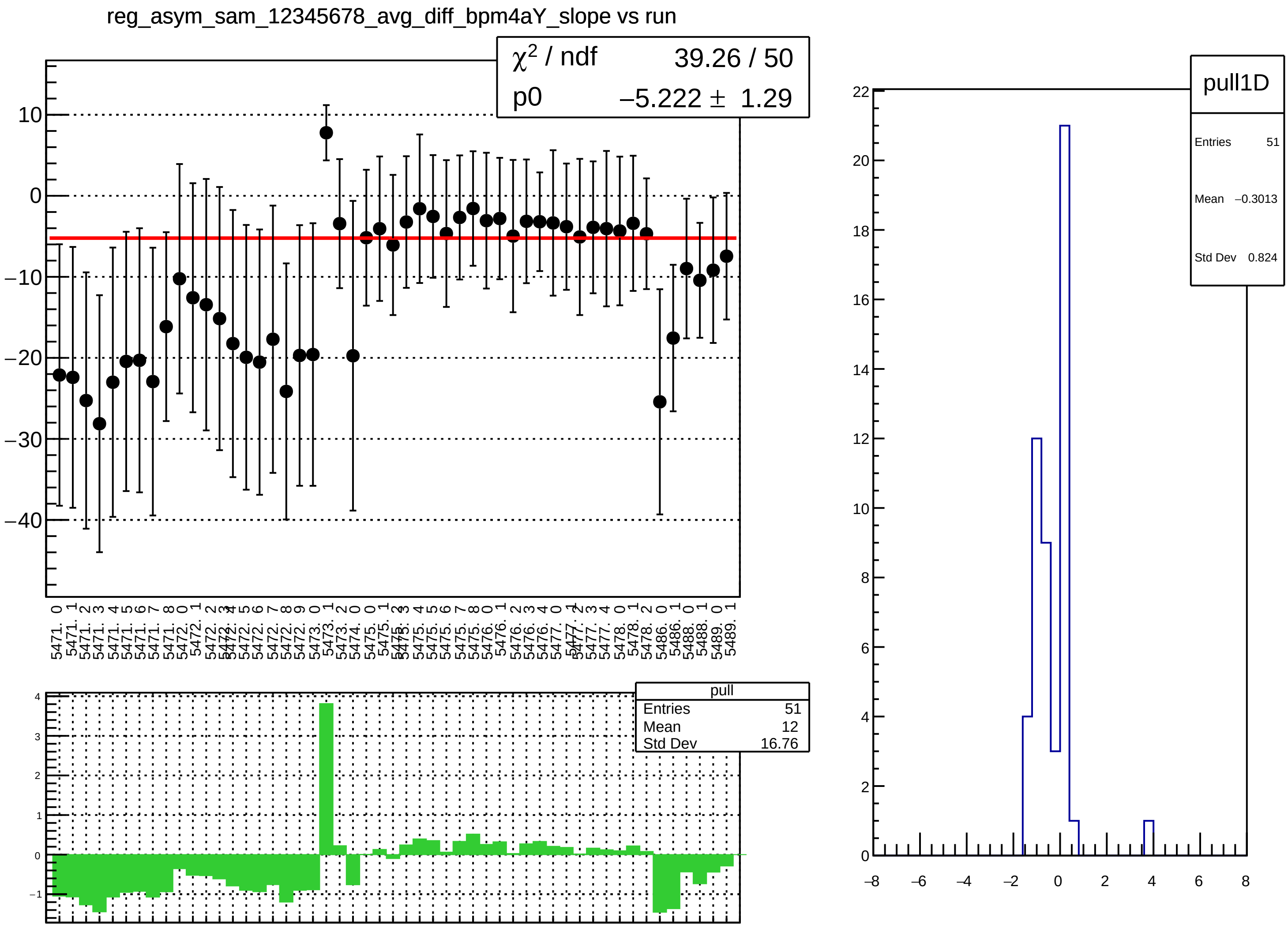
reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ2 / ndf 32.16 / 50
p0 4.689 ± 0.771
pull
Entries 51
Mean 16.44
Std Dev 18.3
pull1D
Entries 51
Mean −0.2561
Std Dev 0.7517

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run

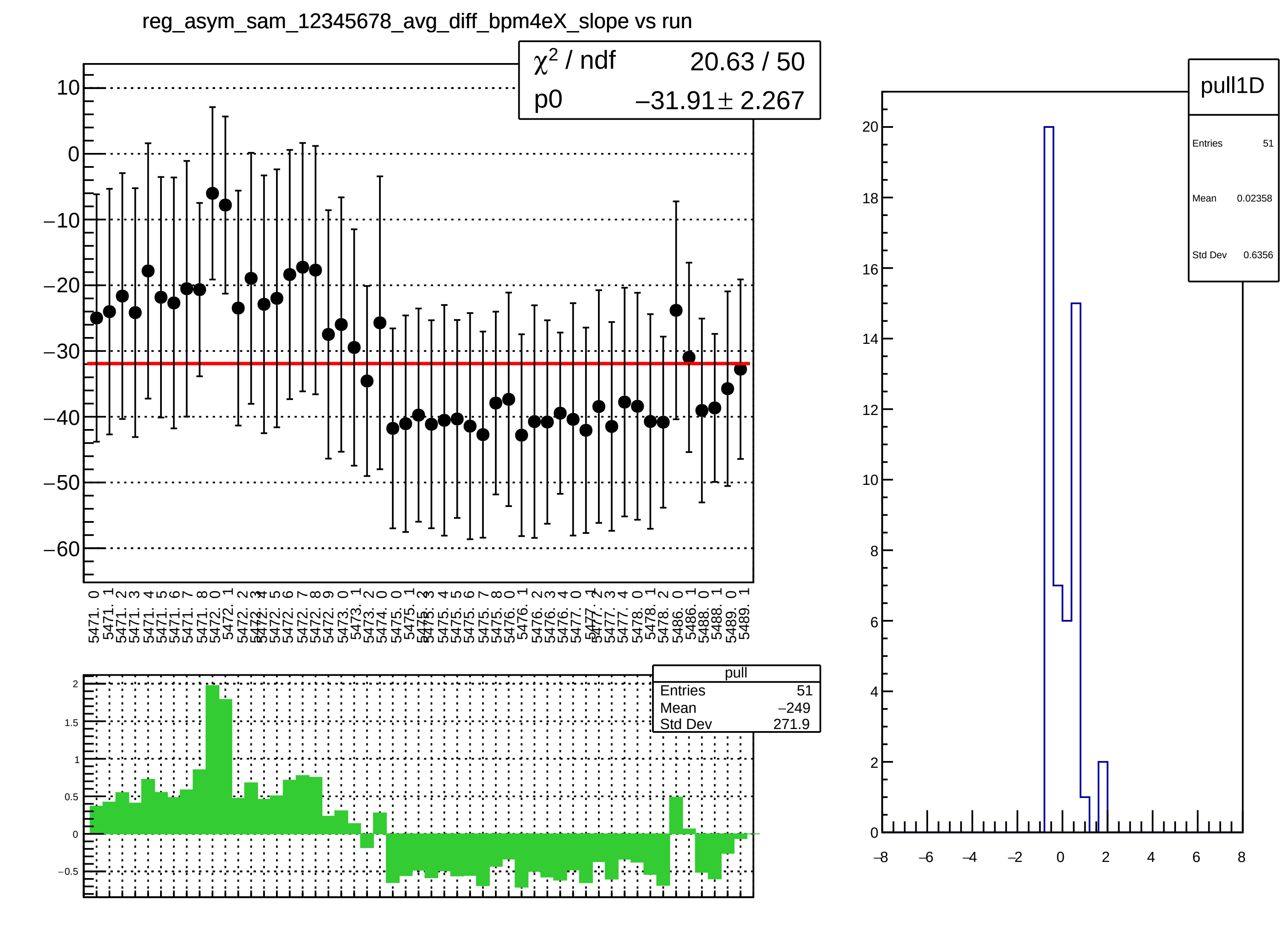


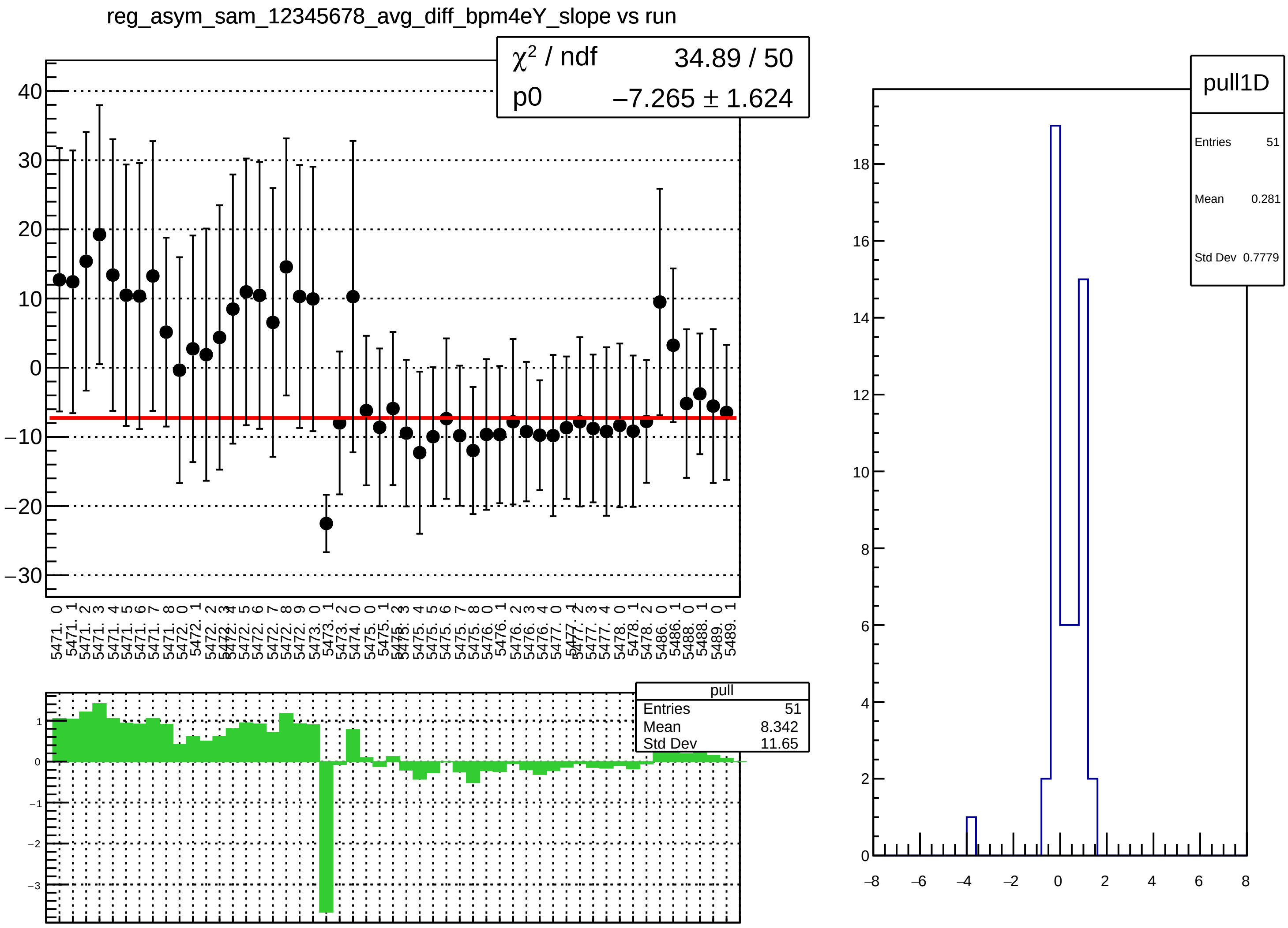


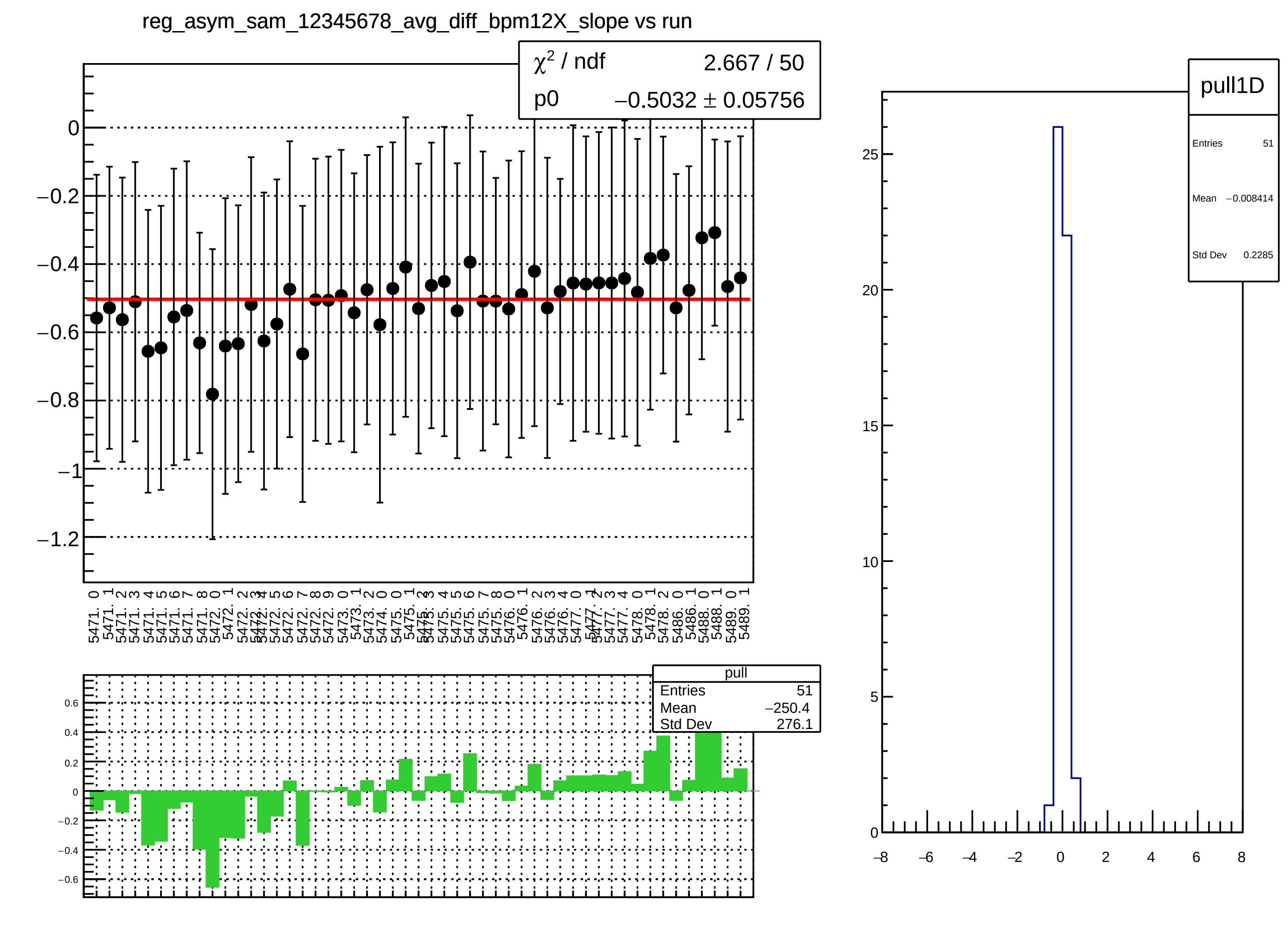
reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 19.89 / 50
p0 −41.37 ± 2.341
pull
Entries 51
Mean −257.7
Std Dev 281.4
pull1D
Entries 51
Mean −0.02353
Std Dev 0.6241



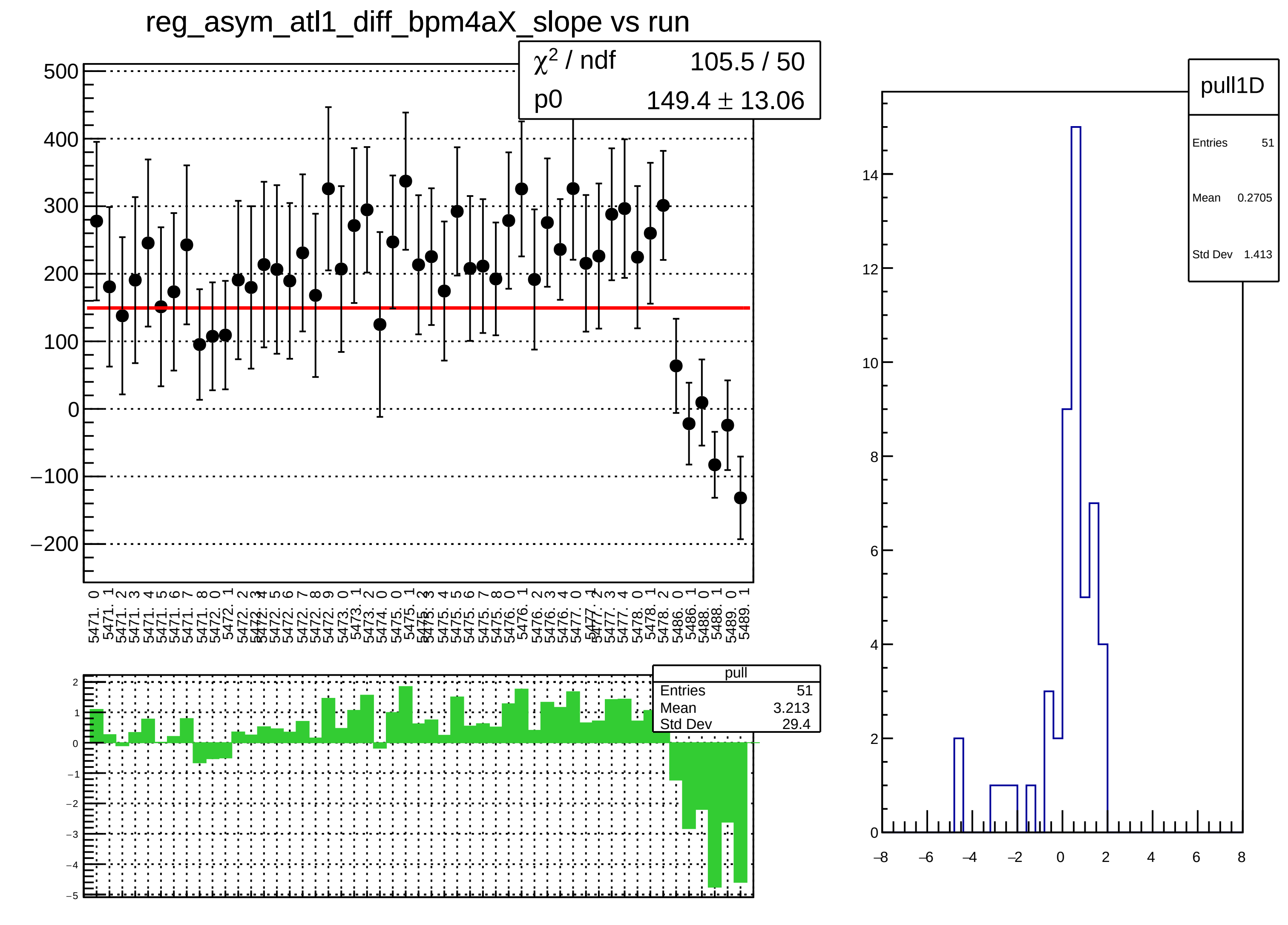
reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 39.26 / 50
p0 −5.222 ± 1.29
pull
Entries 51
Mean 12
Std Dev 16.76
pull1D
Entries 51
Mean −0.3013
Std Dev 0.824


reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 20.63 / 50
p0 −31.91 ± 2.267
pull
Entries 51
Mean −249
Std Dev 271.9
pull1D
Entries 51
Mean 0.02358
Std Dev 0.6356

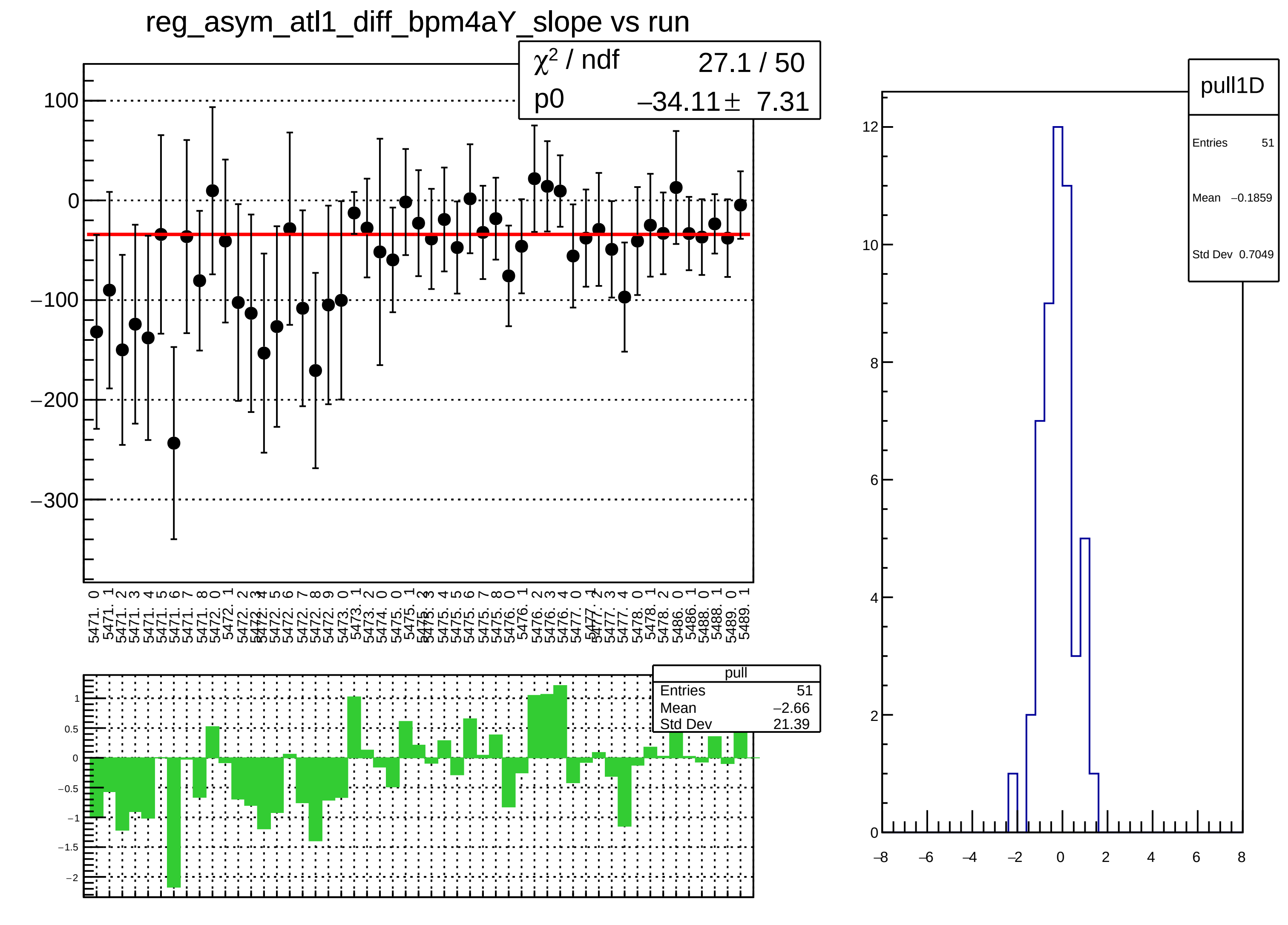

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 34.89 / 50
p0 −7.265 ± 1.624
pull
Entries 51
Mean 8.342
Std Dev 11.65
pull1D
Entries 51
Mean 0.281
Std Dev 0.7779



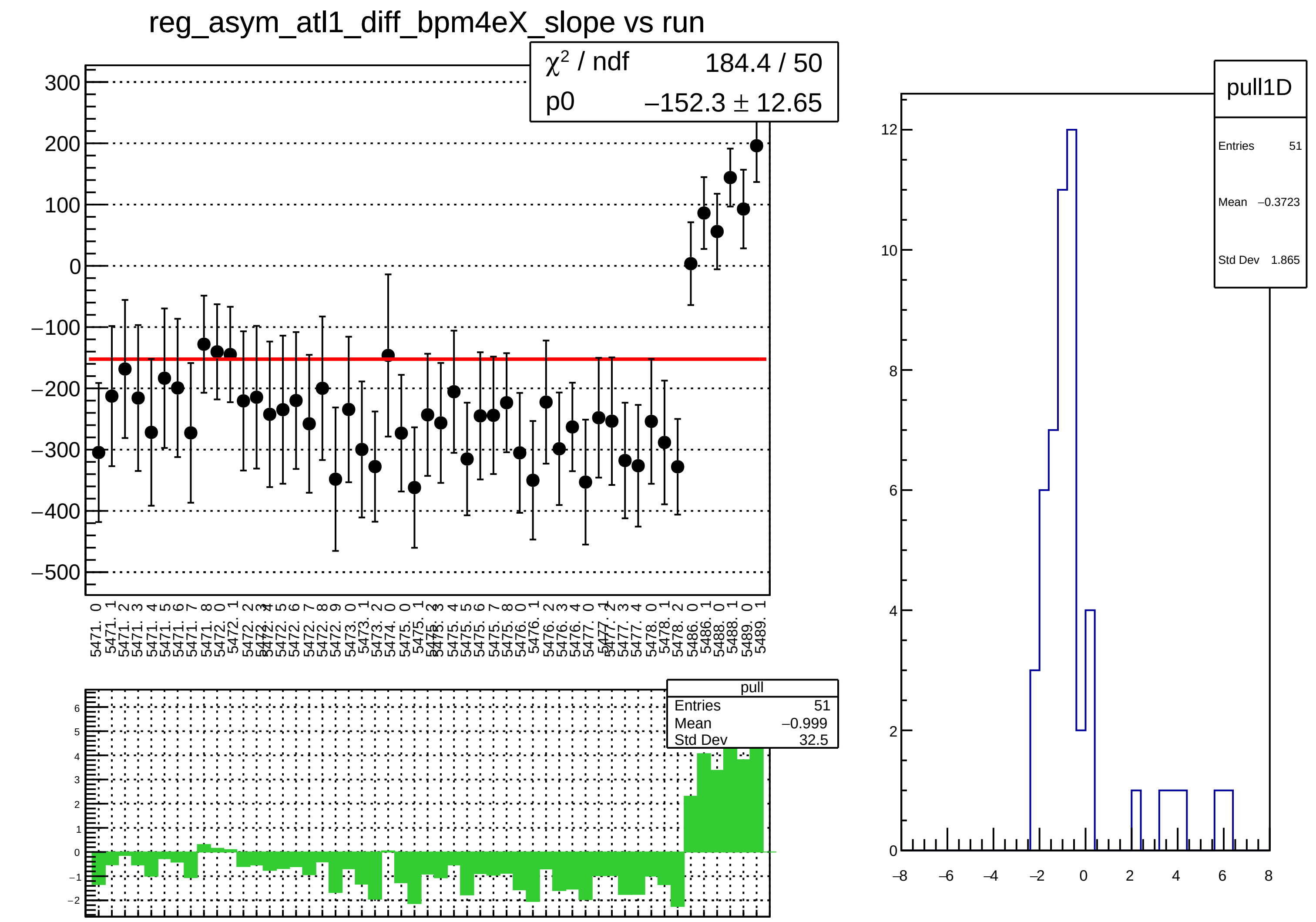
reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ2 / ndf 2.667 / 50
p0 −0.5032 ± 0.05756
pull
Entries 51
Mean −250.4
Std Dev 276.1
pull1D
Entries 51
Mean −0.008414
Std Dev 0.2285



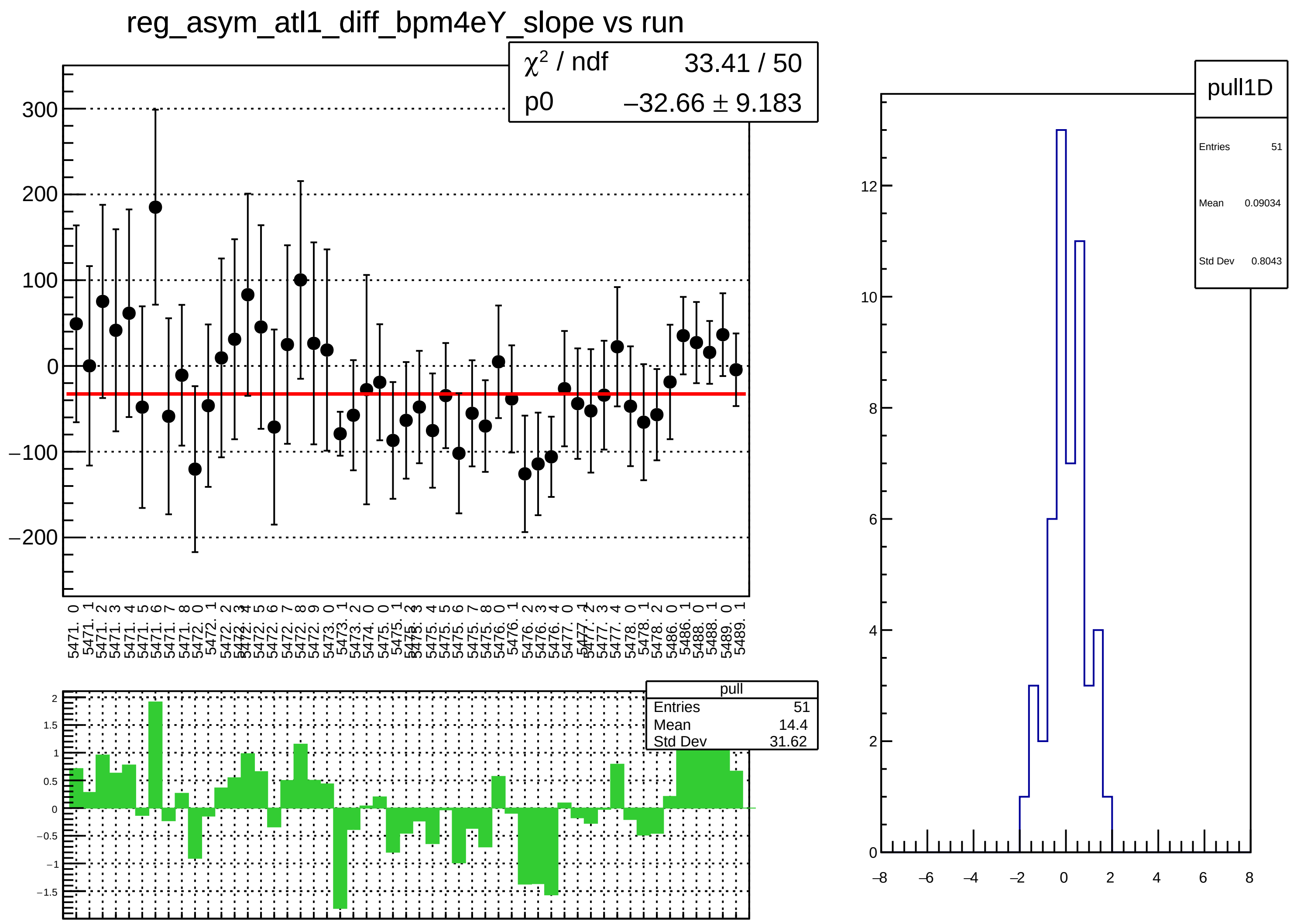
reg_asym_atl1_diff_bpm4aX_slope vs run
χ^2 / ndf 105.5 / 50
p0 149.4 ± 13.06
pull
Entries 51
Mean 3.213
Std Dev 29.4
pull1D
Entries 51
Mean 0.2705
Std Dev 1.413

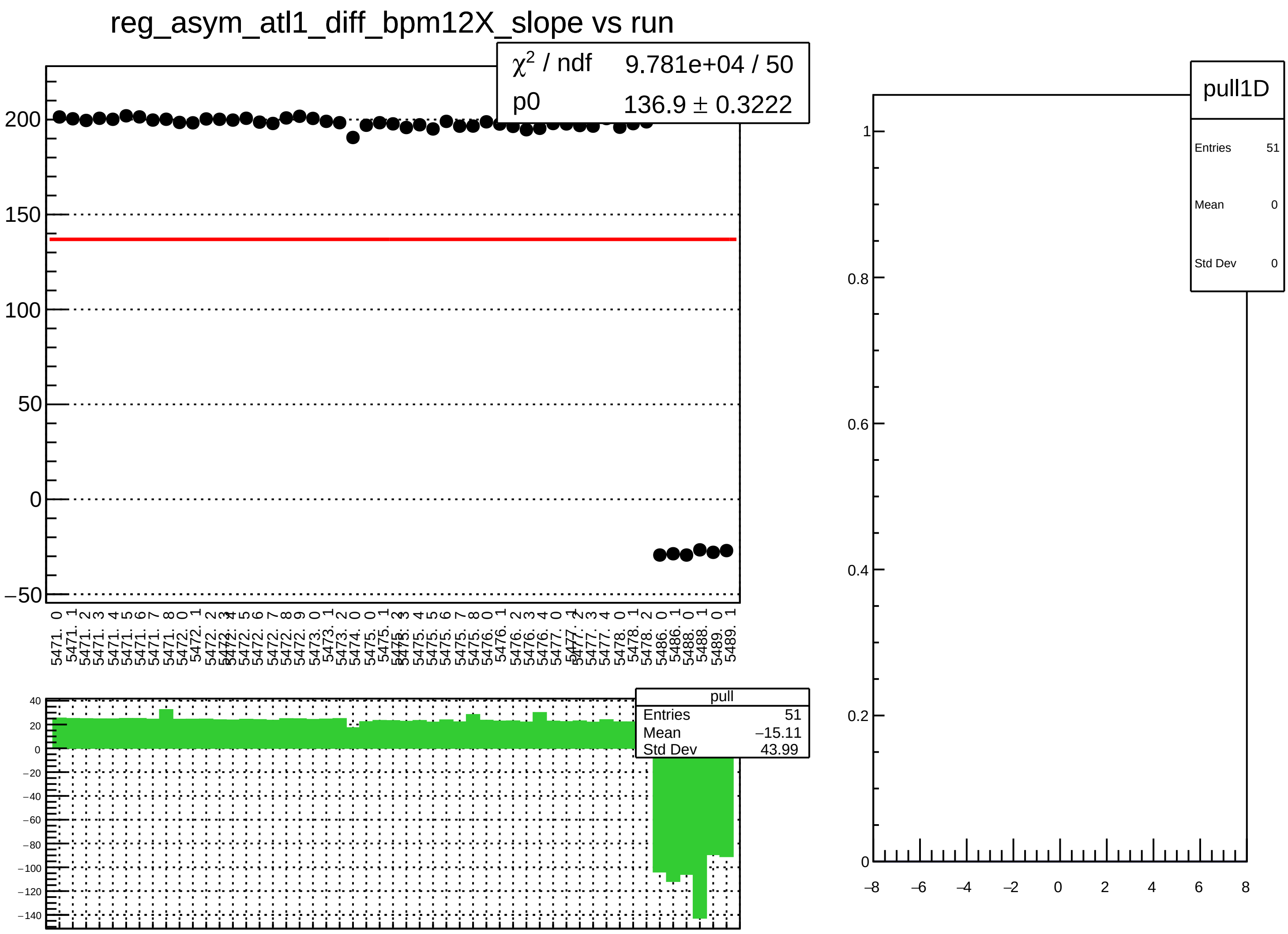


reg_asym_atl1_diff_bpm4aY_slope vs run
χ2 / ndf 27.1 / 50
p0 −34.11 ± 7.31
pull
Entries 51
Mean −2.66
Std Dev 21.39
pull1D
Entries 51
Mean −0.1859
Std Dev 0.7049

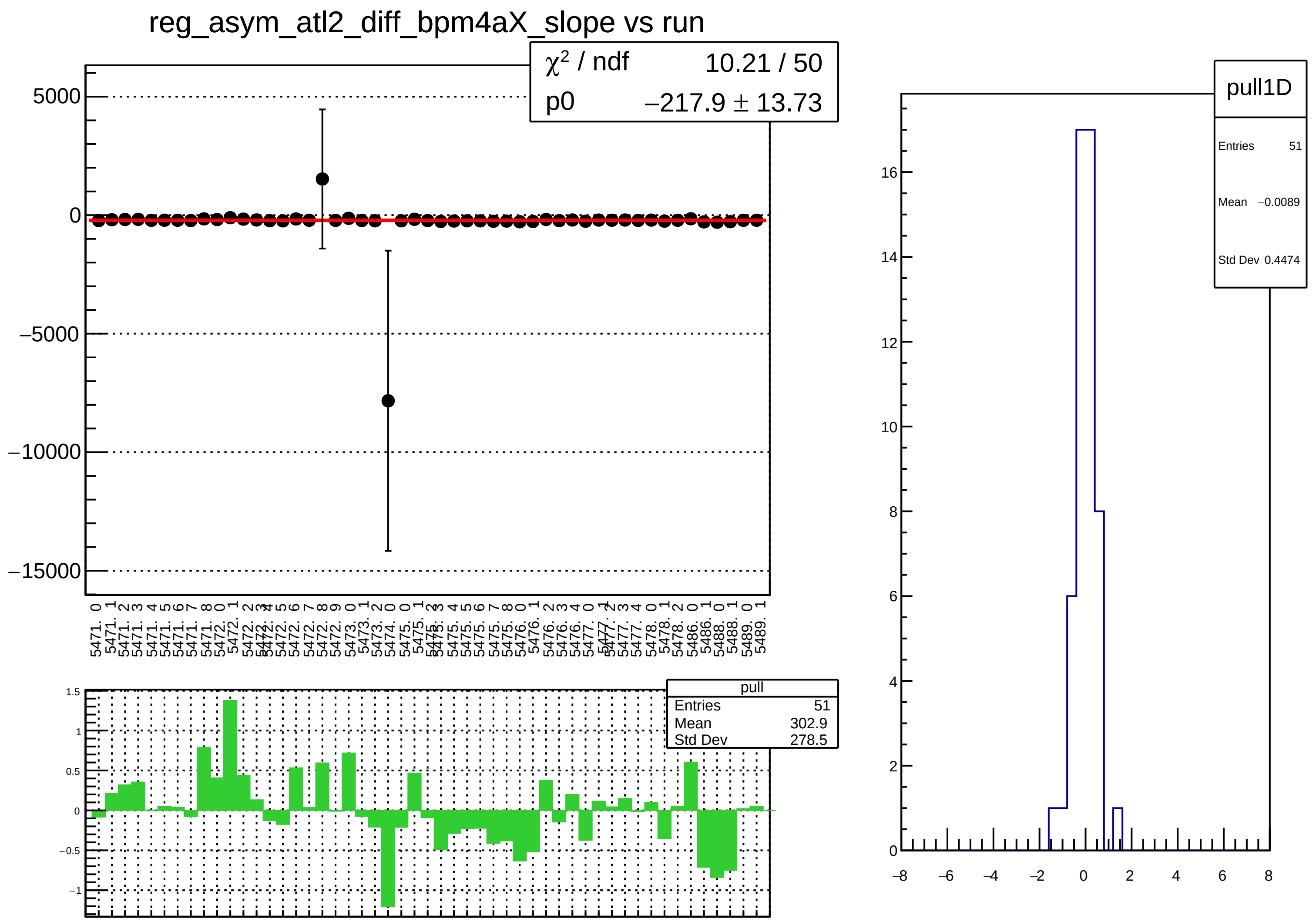


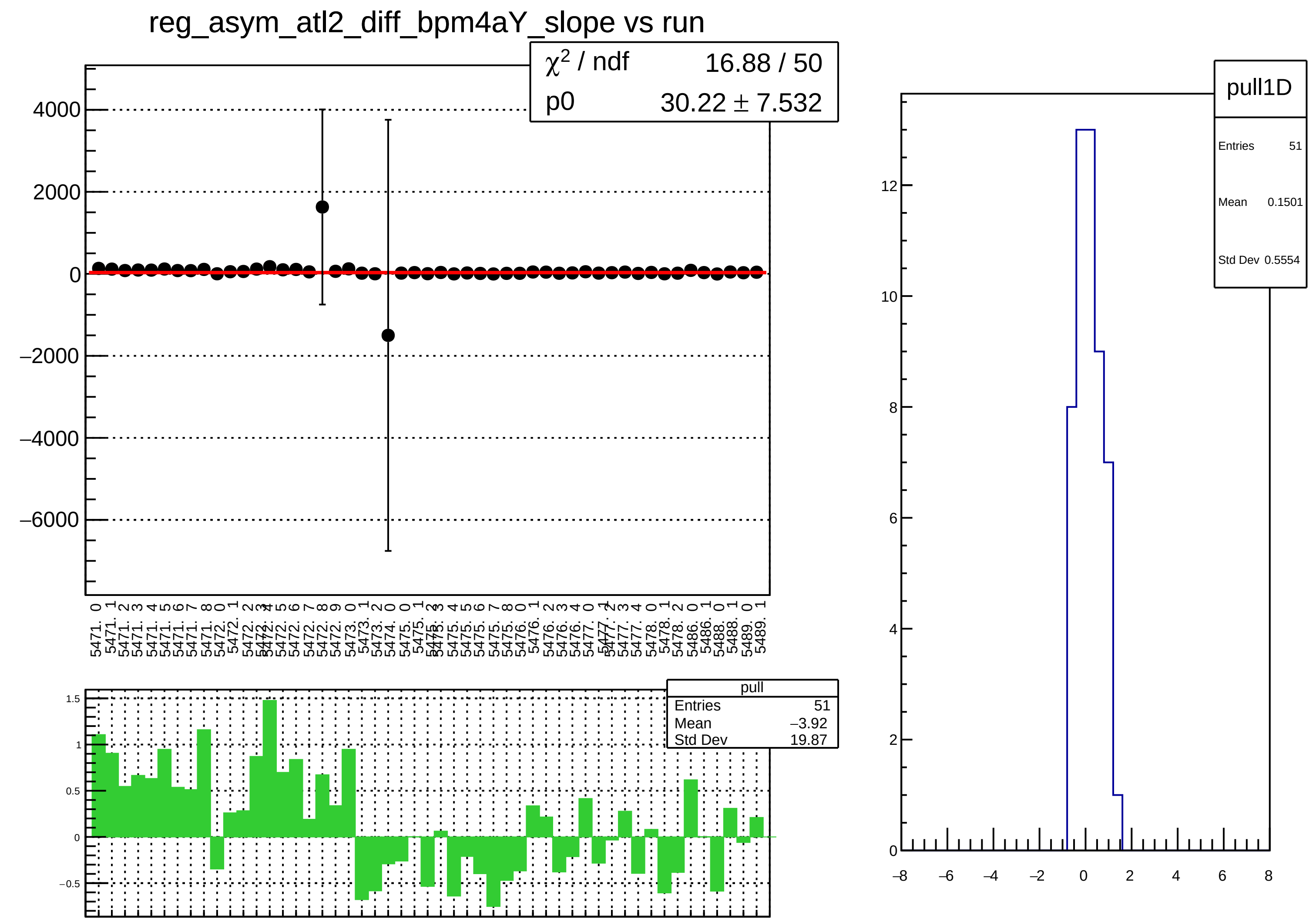
reg_asym_atl1_diff_bpm4eX_slope vs run
χ^2 / ndf 184.4 / 50
p0 −152.3 ± 12.65
pull
Entries 51
Mean −0.999
Std Dev 32.5
pull1D
Entries 51
Mean −0.3723
Std Dev 1.865


reg_asym_atl1_diff_bpm4eY_slope vs run
χ2 / ndf 33.41 / 50
p0 −32.66 ± 9.183
pull
Entries 51
Mean 14.4
Std Dev 31.62
pull1D
Entries 51
Mean 0.09034
Std Dev 0.8043

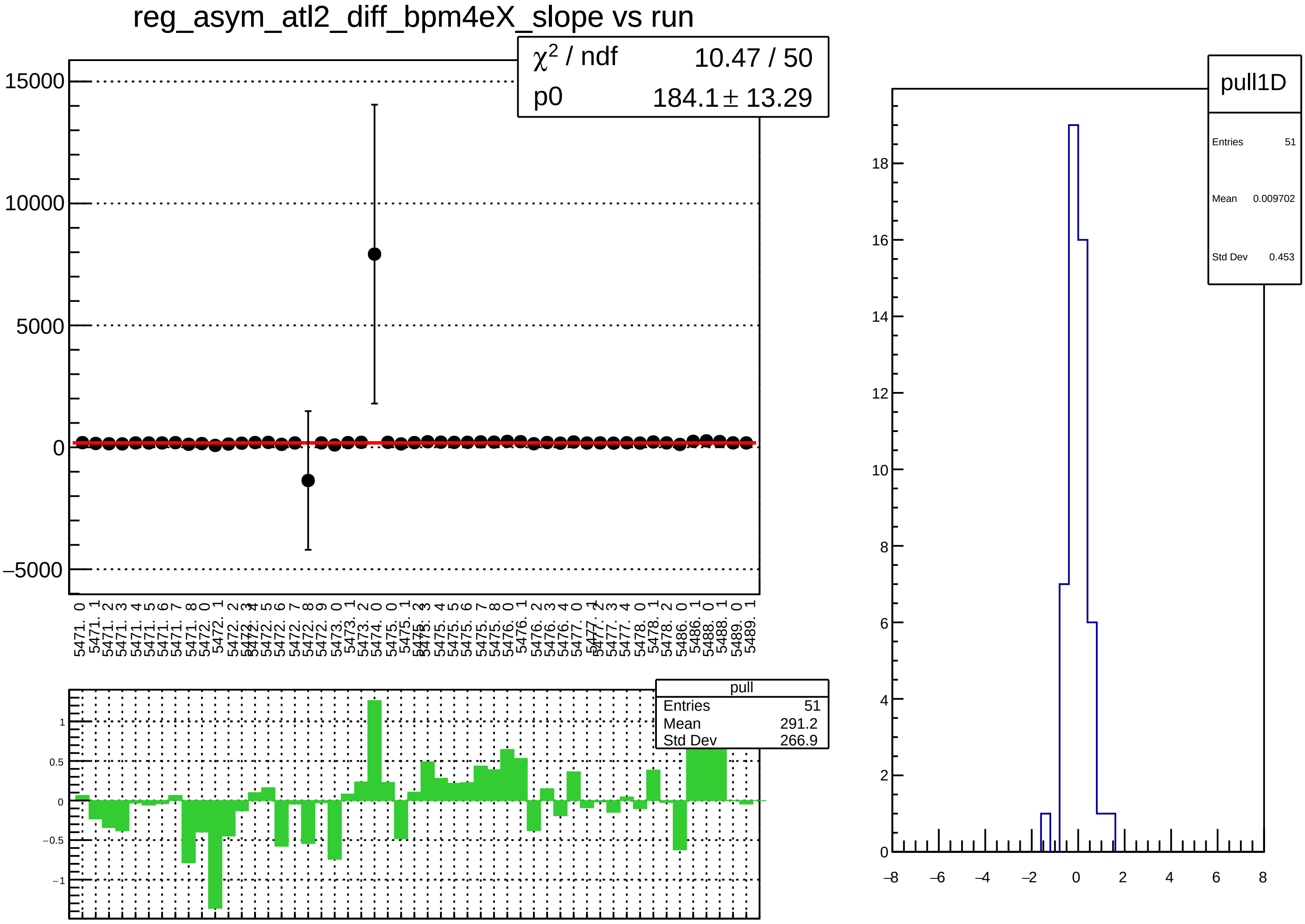


reg_asym_atl1_diff_bpm12X_slope vs run
χ^2 / ndf 9.781e+04 / 50
p0 136.9 ± 0.3222
pull
Entries 51
Mean −15.11
Std Dev 43.99
pull1D
Entries 51
Mean 0
Std Dev 0

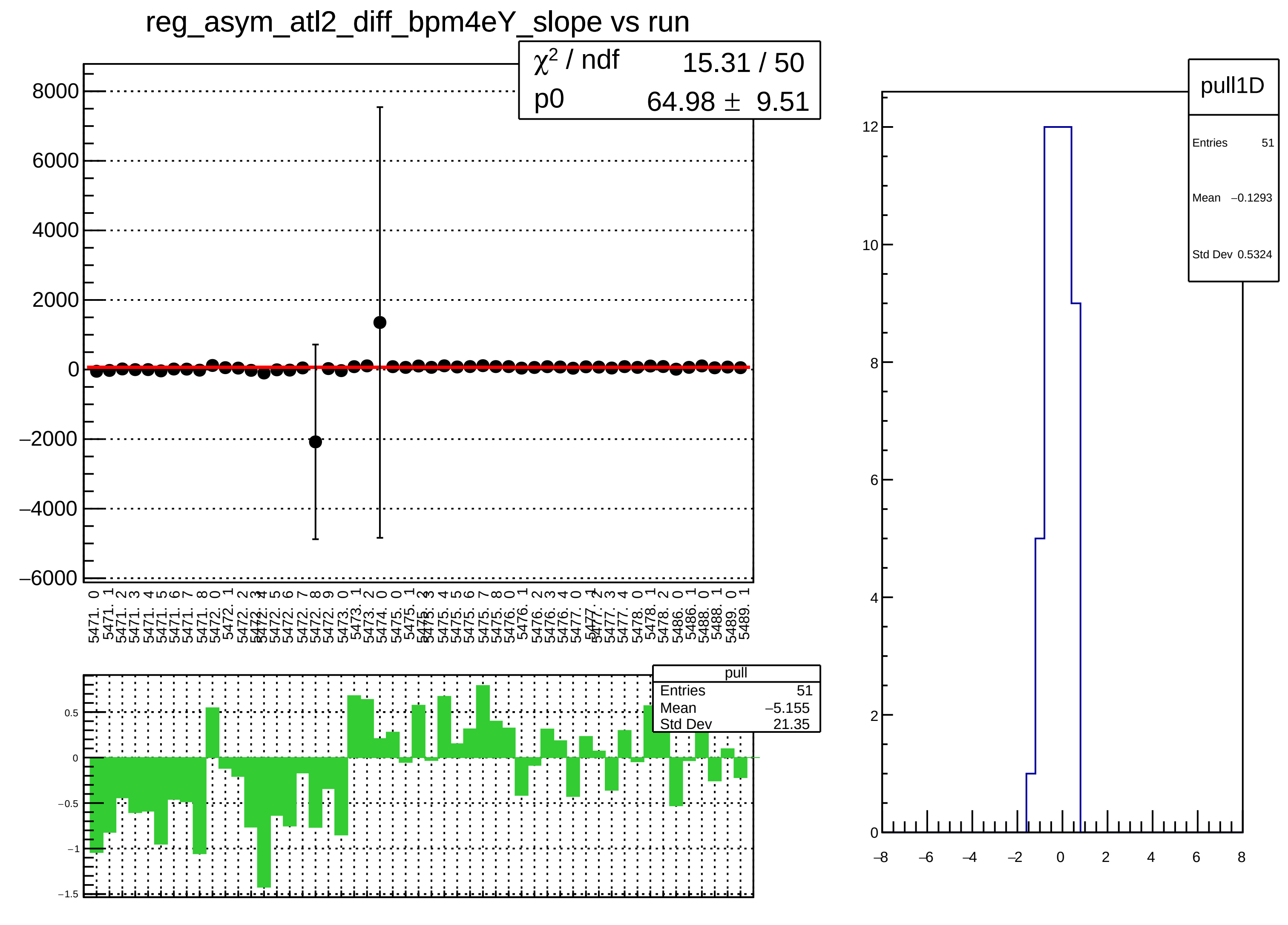

reg_asym_atl2_diff_bpm4aX_slope vs run
χ2 / ndf 10.21 / 50
p0 −217.9 ± 13.73
pull
Entries 51
Mean 302.9
Std Dev 278.5
pull1D
Entries 51
Mean −0.0089
Std Dev 0.4474



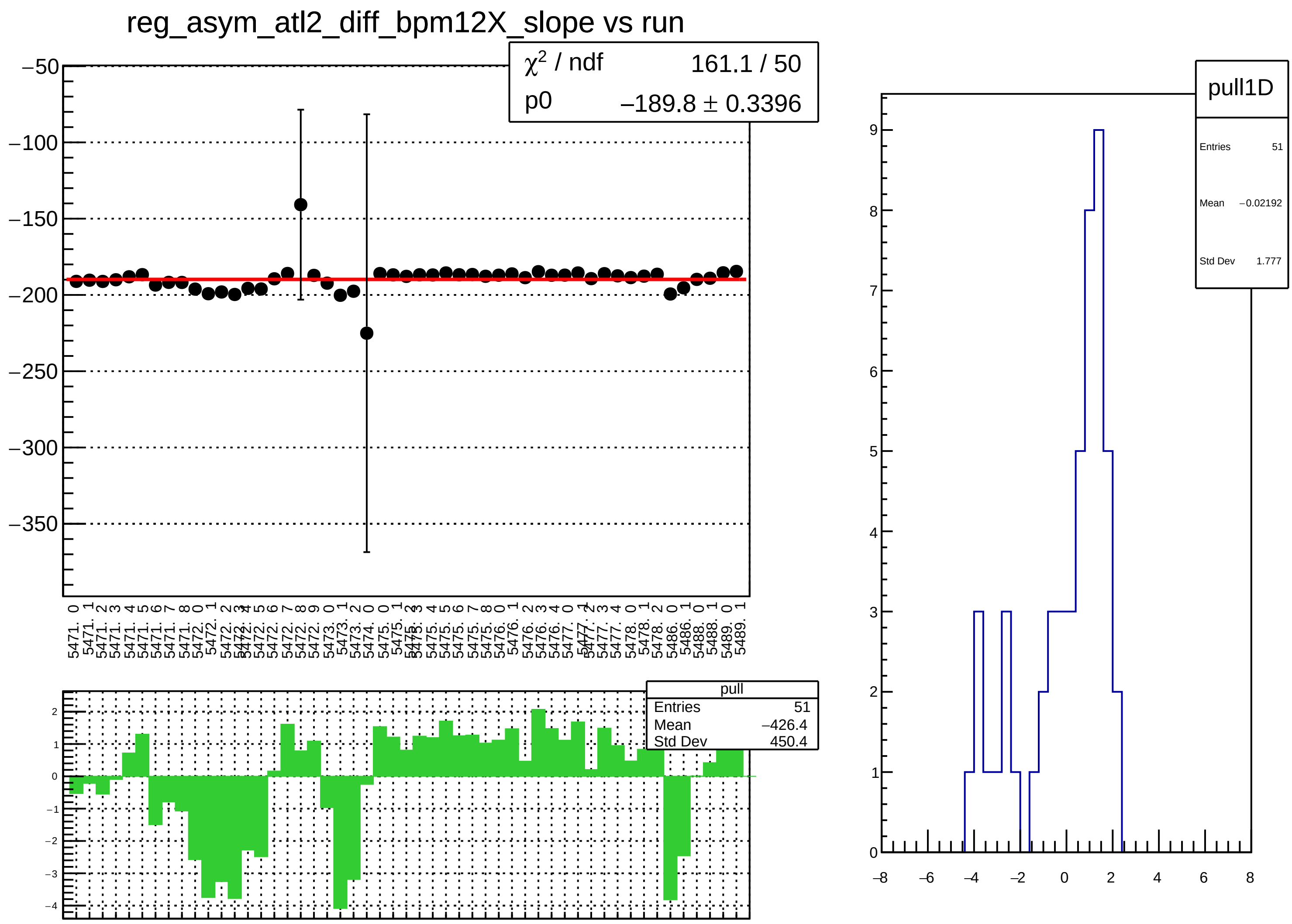
reg_asym_atl2_diff_bpm4aY_slope vs run
χ^2 / ndf 16.88 / 50
p0 30.22 ± 7.532
pull
Entries 51
Mean −3.92
Std Dev 19.87
pull1D
Entries 51
Mean 0.1501
Std Dev 0.5554



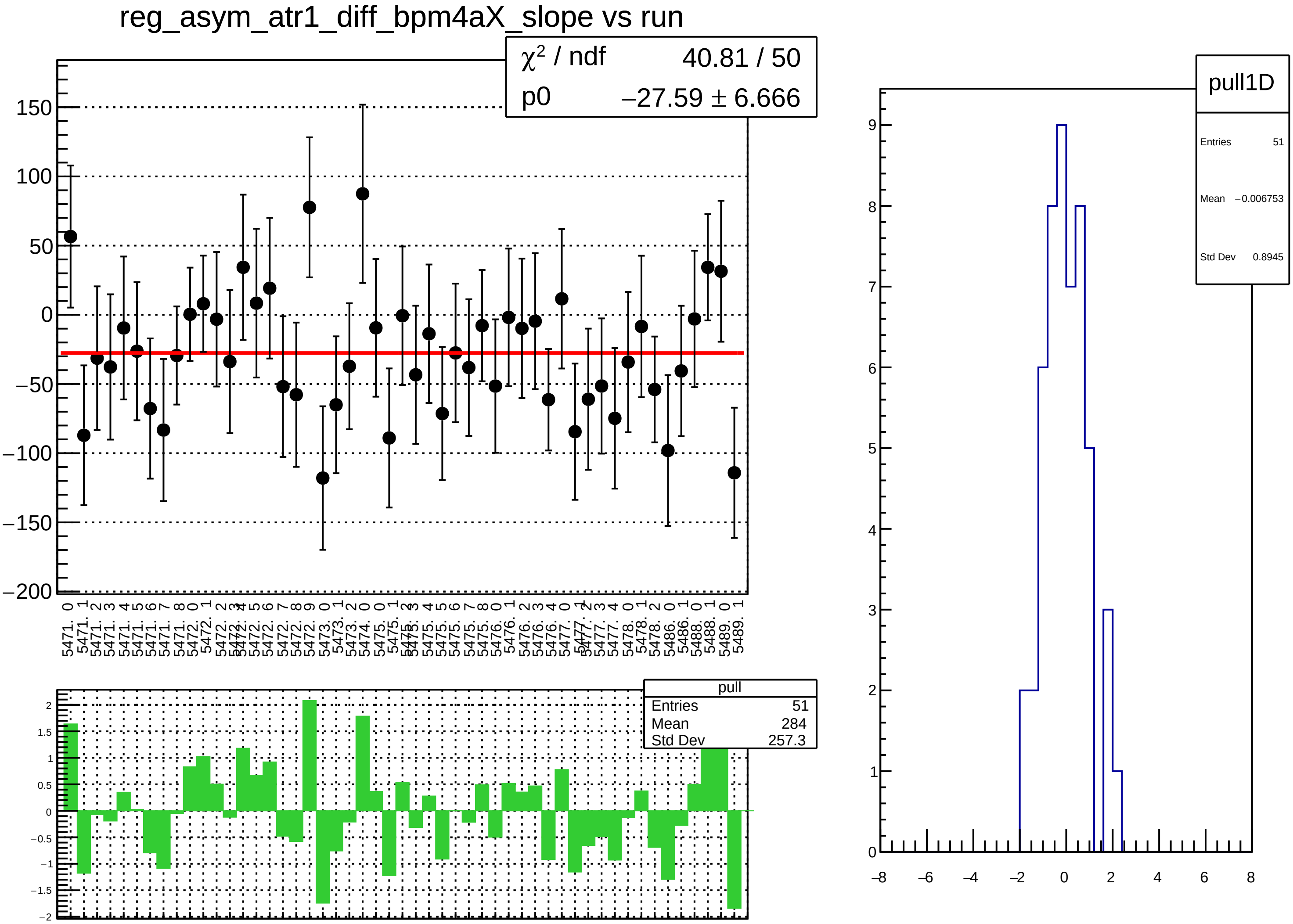
reg_asym_atl2_diff_bpm4eX_slope vs run
χ^2 / ndf 10.47 / 50
p0 184.1 ± 13.29
pull
Entries 51
Mean 291.2
Std Dev 266.9
pull1D
Entries 51
Mean 0.009702
Std Dev 0.453



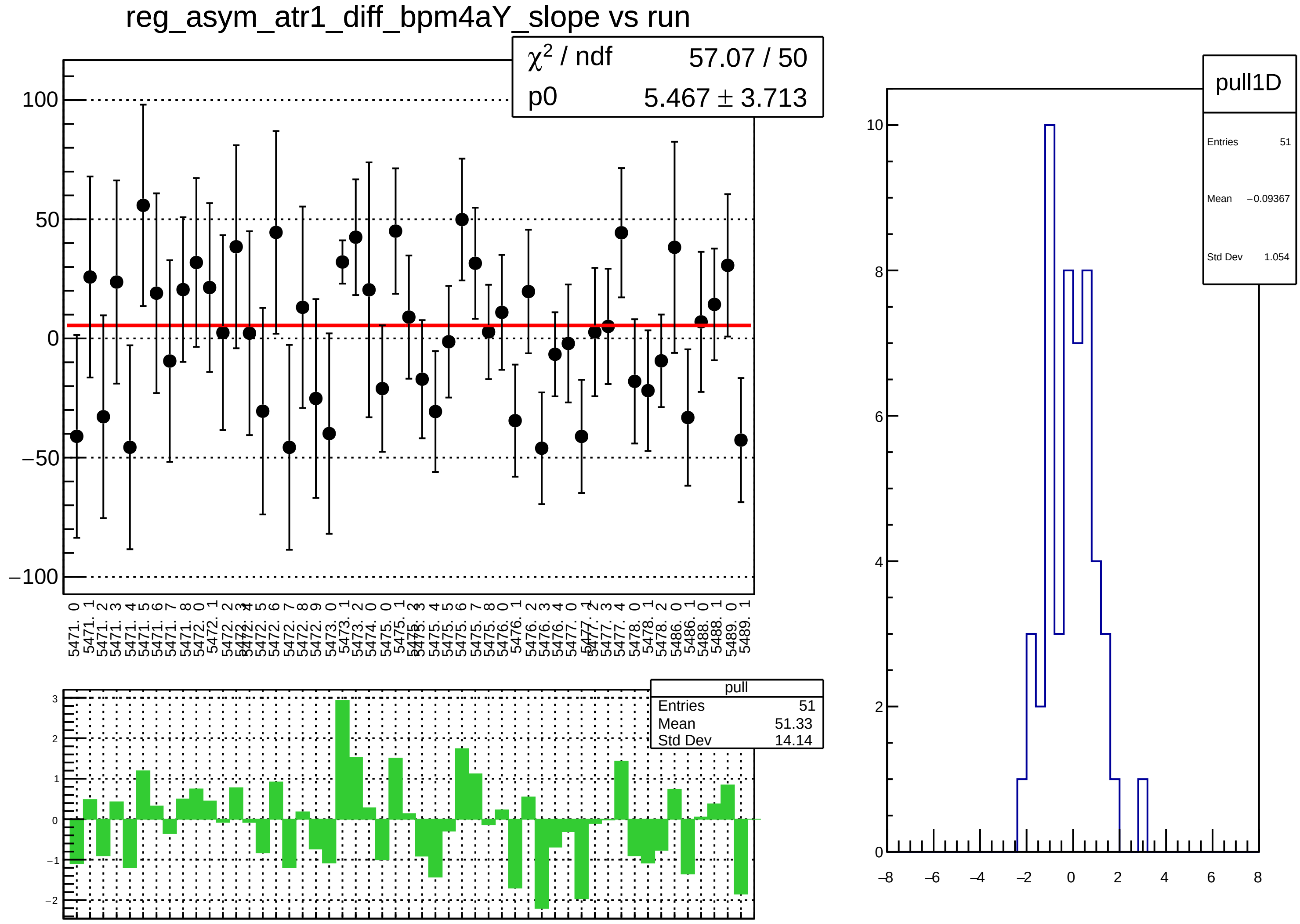
reg_asym_atl2_diff_bpm4eY_slope vs run
χ2 / ndf 15.31 / 50
p0 64.98 ± 9.51
pull
Entries 51
Mean −5.155
Std Dev 21.35
pull1D
Entries 51
Mean −0.1293
Std Dev 0.5324

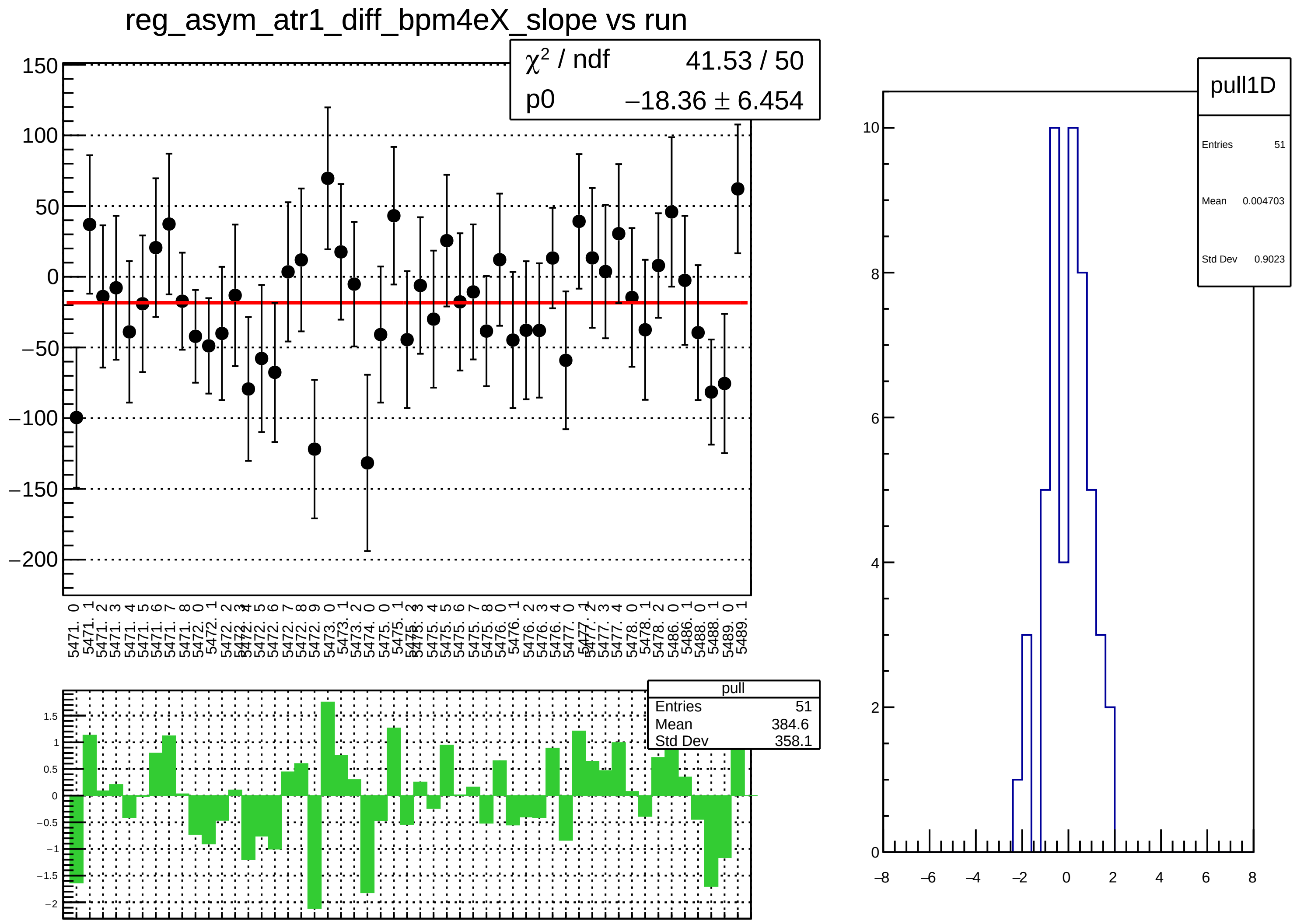


reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 161.1 / 50
p0 −189.8 ± 0.3396
pull
Entries 51
Mean −426.4
Std Dev 450.4
pull1D
Entries 51
Mean −0.02192
Std Dev 1.777

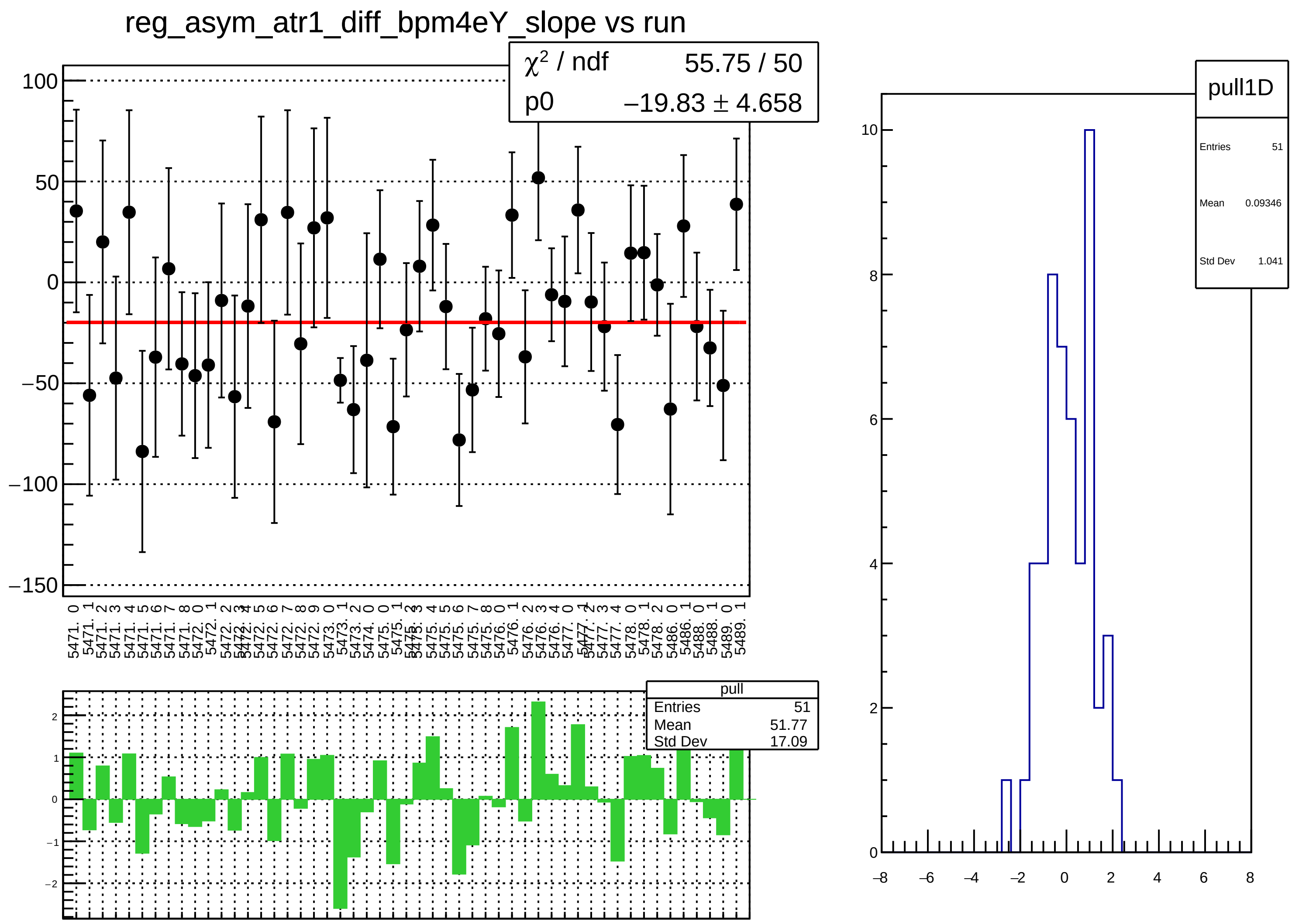


reg_asym_atr1_diff_bpm4aX_slope vs run
χ^2 / ndf 40.81 / 50
p0 −27.59 ± 6.666
pull
Entries 51
Mean 284
Std Dev 257.3
pull1D
Entries 51
Mean −0.006753
Std Dev 0.8945

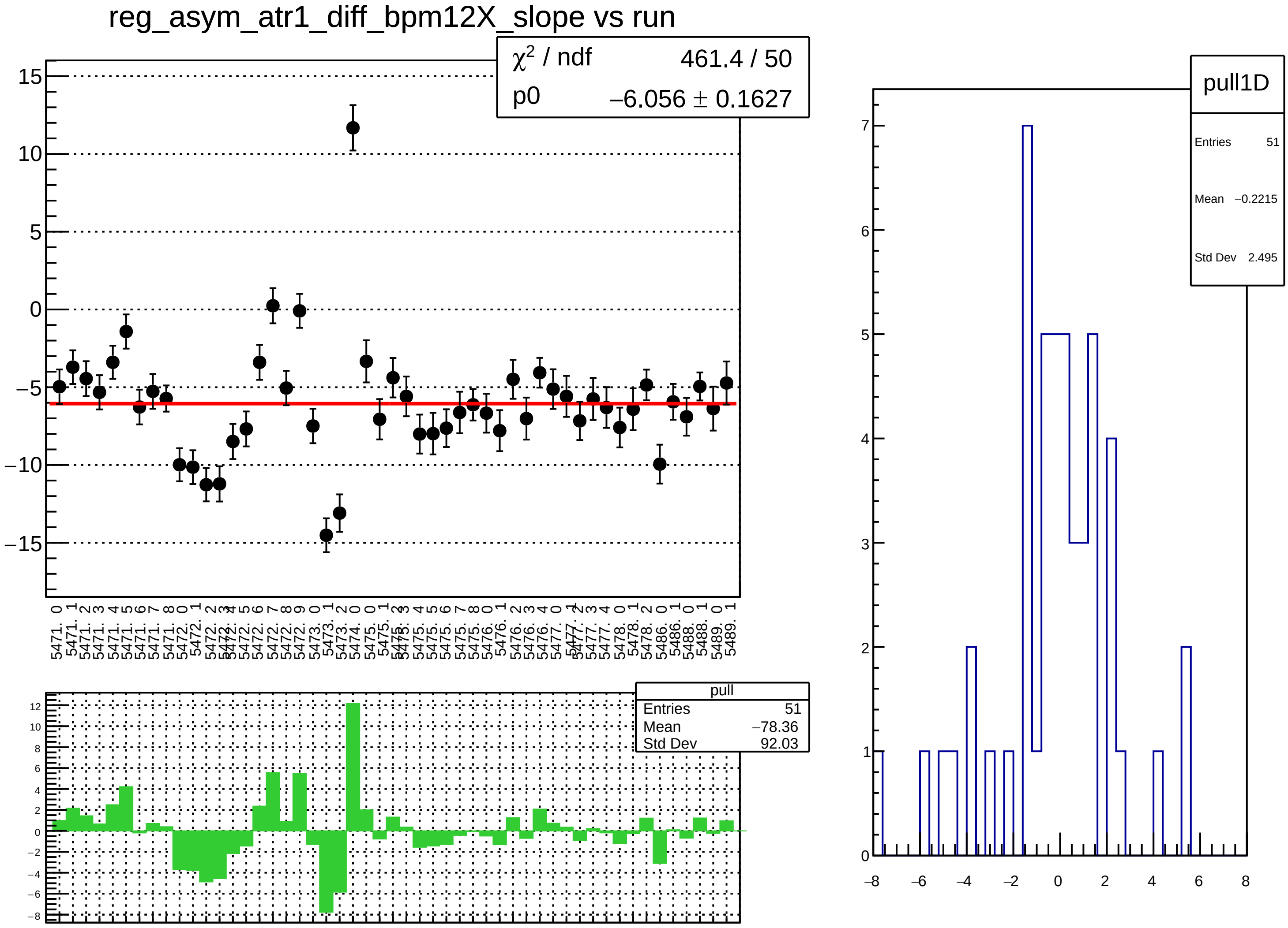

reg_asym_atr1_diff_bpm4aY_slope vs run
χ^2 / ndf 57.07 / 50
p0 5.467 ± 3.713
pull
Entries 51
Mean 51.33
Std Dev 14.14
pull1D
Entries 51
Mean −0.09367
Std Dev 1.054



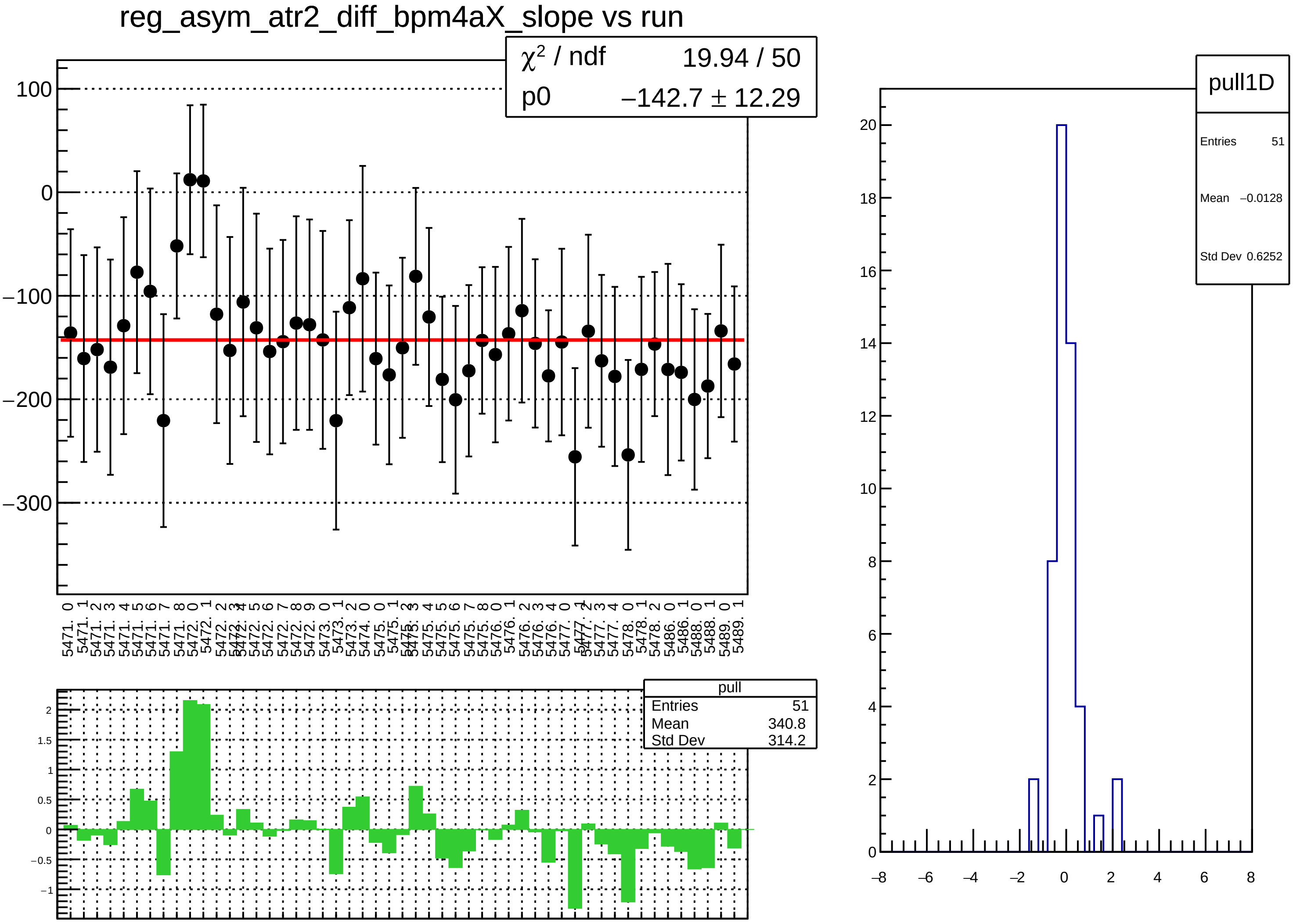
reg_asym_atr1_diff_bpm4eX_slope vs run
χ^2 / ndf 41.53 / 50
p0 −18.36 ± 6.454
pull
Entries 51
Mean 384.6
Std Dev 358.1
pull1D
Entries 51
Mean 0.004703
Std Dev 0.9023



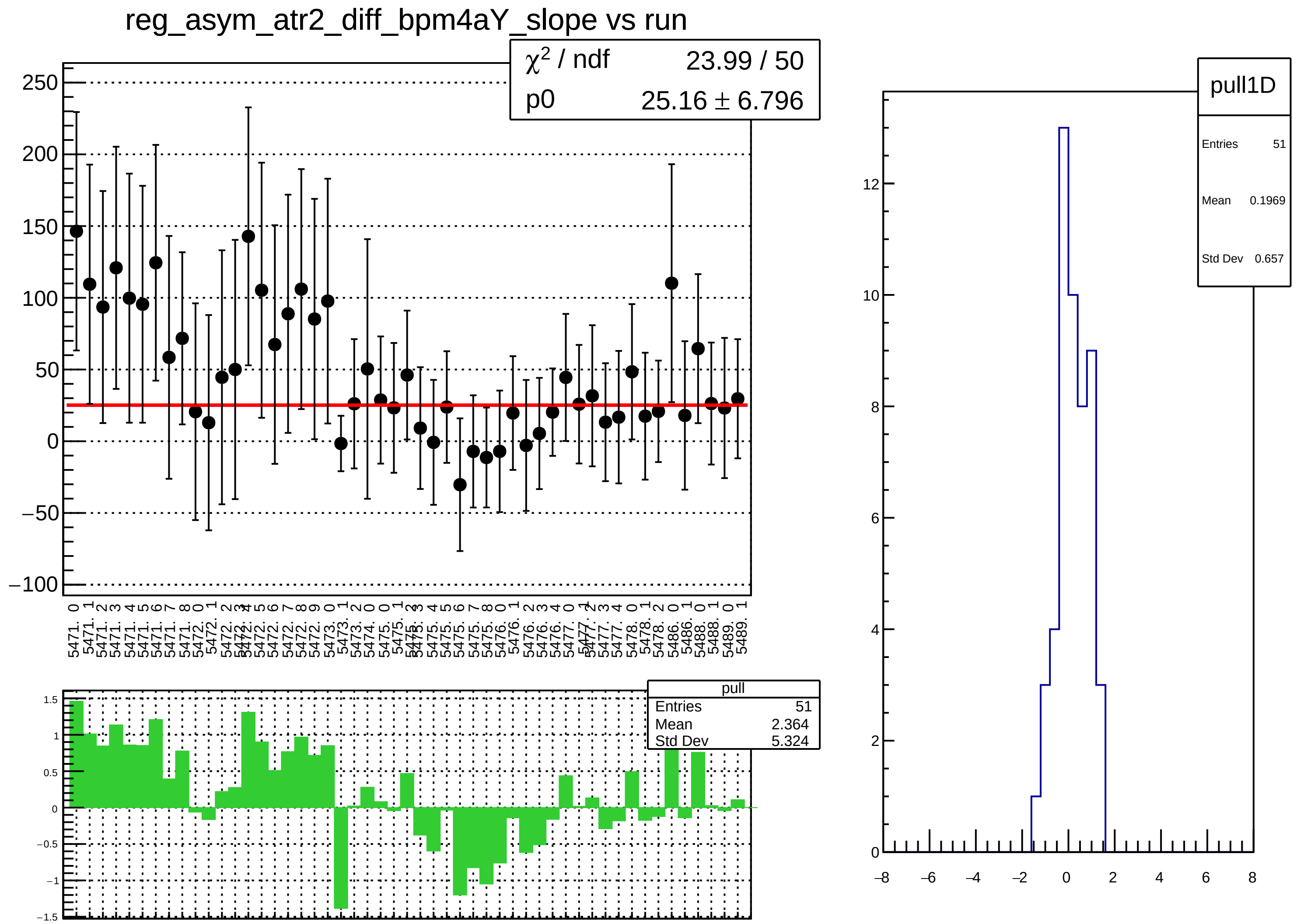
reg_asym_atr1_diff_bpm4eY_slope vs run
χ2 / ndf 55.75 / 50
p0 −19.83 ± 4.658
pull
Entries 51
Mean 51.77
Std Dev 17.09
pull1D
Entries 51
Mean 0.09346
Std Dev 1.041



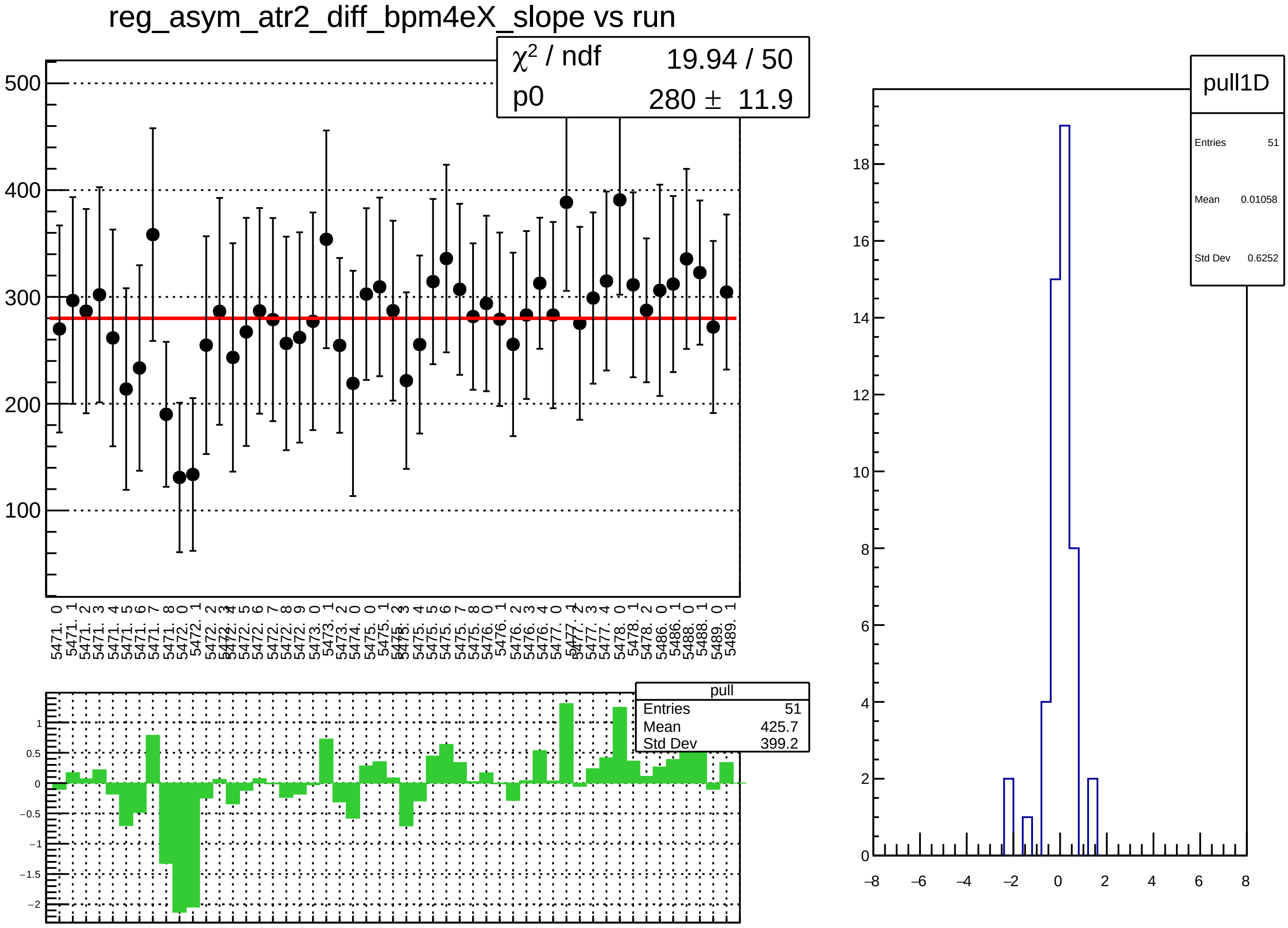
reg_asym_atr1_diff_bpm12X_slope vs run
χ2 / ndf 461.4 / 50
p0 −6.056 ± 0.1627
pull
Entries 51
Mean −78.36
Std Dev 92.03
pull1D
Entries 51
Mean −0.2215
Std Dev 2.495



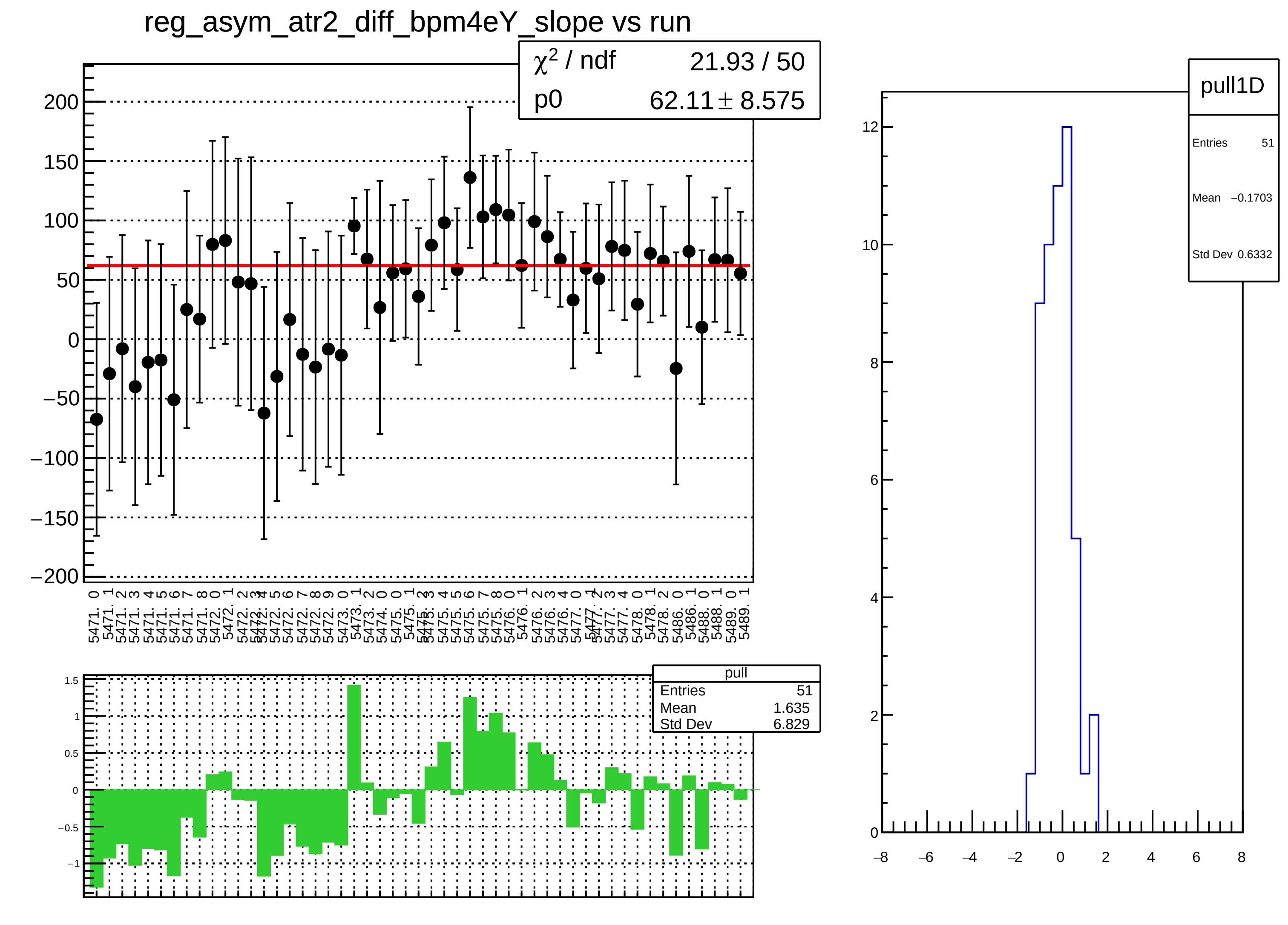
reg_asym_atr2_diff_bpm4aX_slope vs run
χ2 / ndf 19.94 / 50
p0 −142.7 ± 12.29
pull
Entries 51
Mean 340.8
Std Dev 314.2
pull1D
Entries 51
Mean −0.0128
Std Dev 0.6252



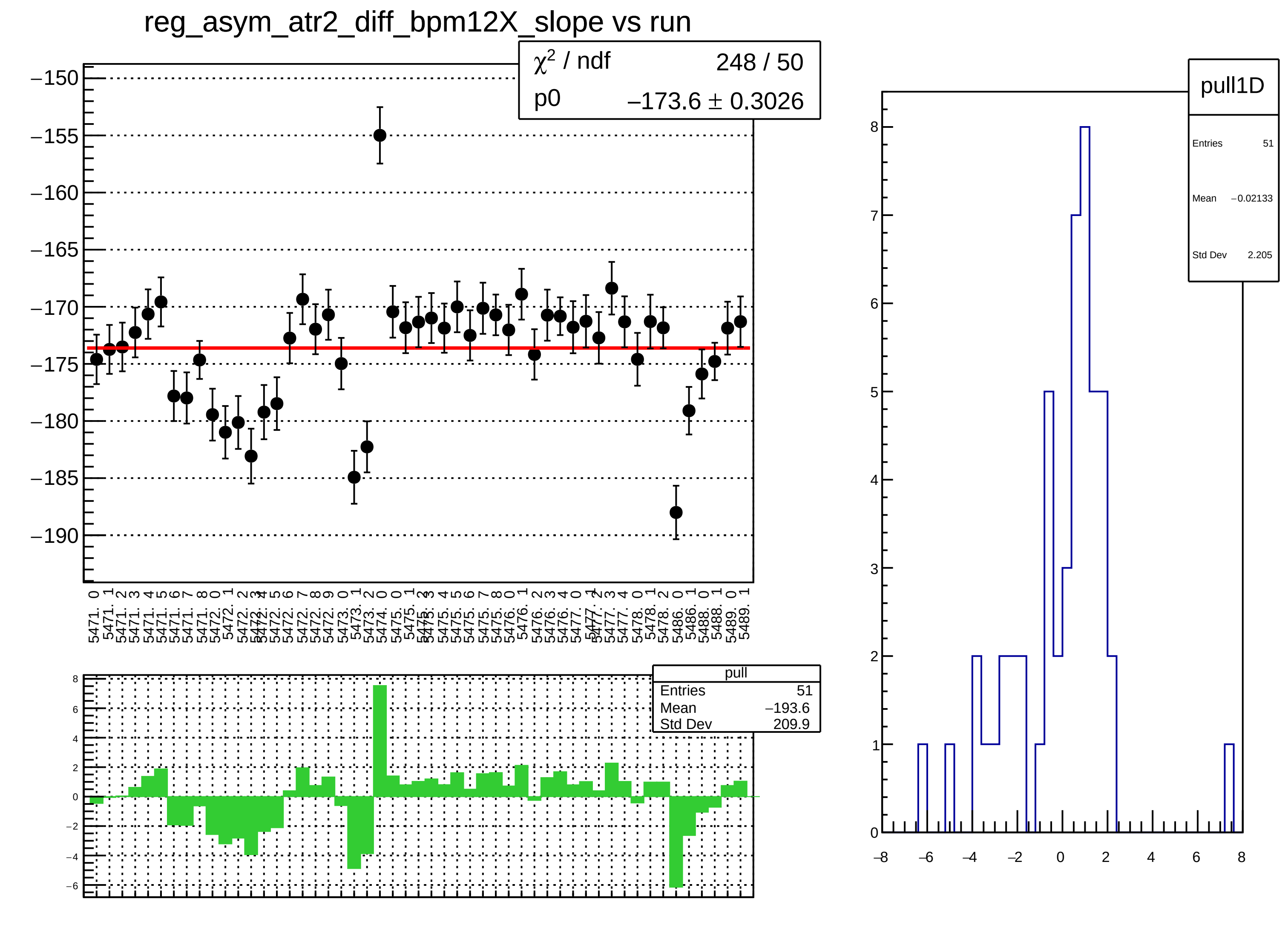
reg_asym_atr2_diff_bpm4aY_slope vs run
χ^2 / ndf 23.99 / 50
p0 25.16 ± 6.796
pull
Entries 51
Mean 2.364
Std Dev 5.324
pull1D
Entries 51
Mean 0.1969
Std Dev 0.657



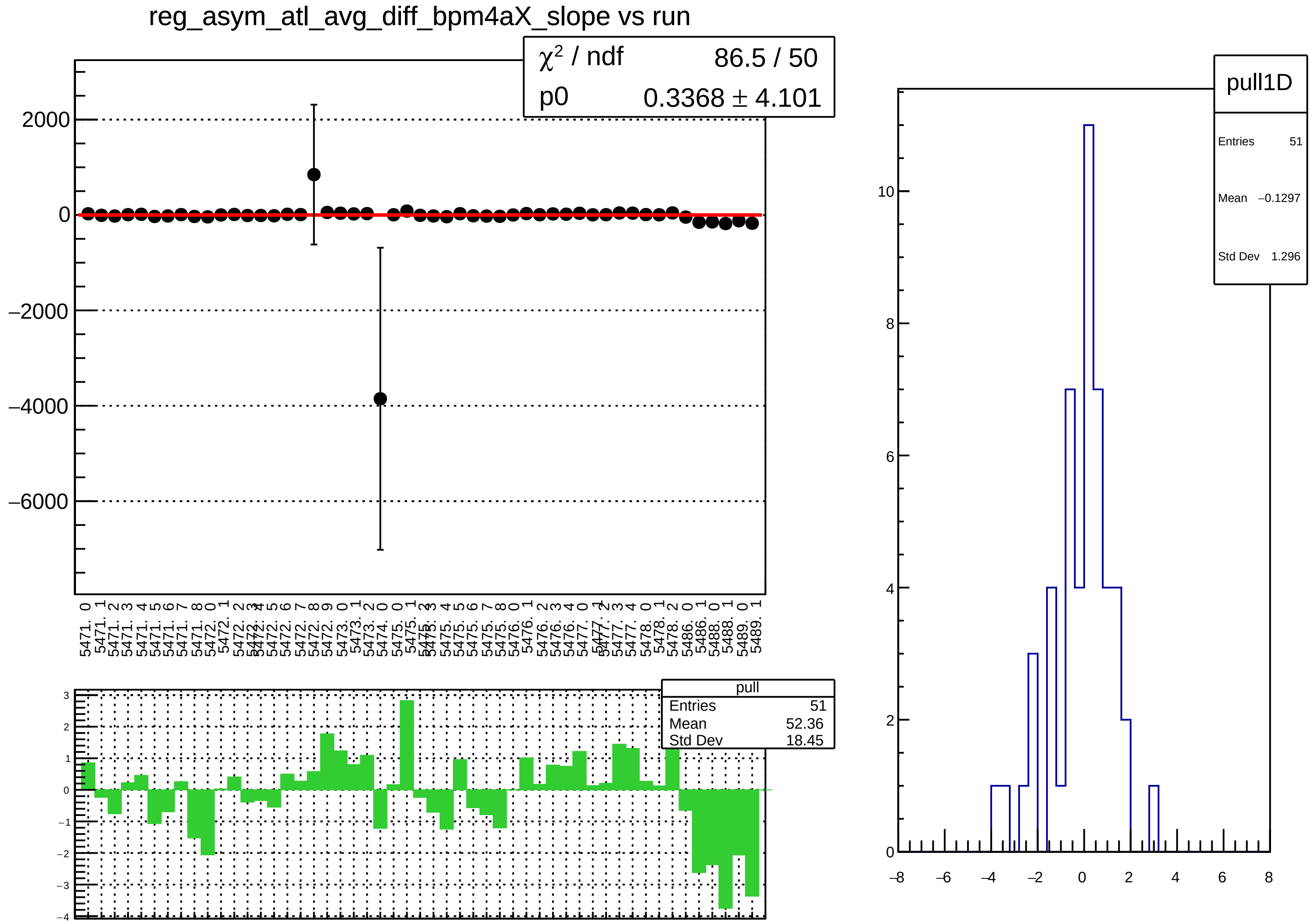
reg_asym_atr2_diff_bpm4eX_slope vs run
χ2 / ndf 19.94 / 50
p0 280 ± 11.9
pull
Entries 51
Mean 425.7
Std Dev 399.2
pull1D
Entries 51
Mean 0.01058
Std Dev 0.6252



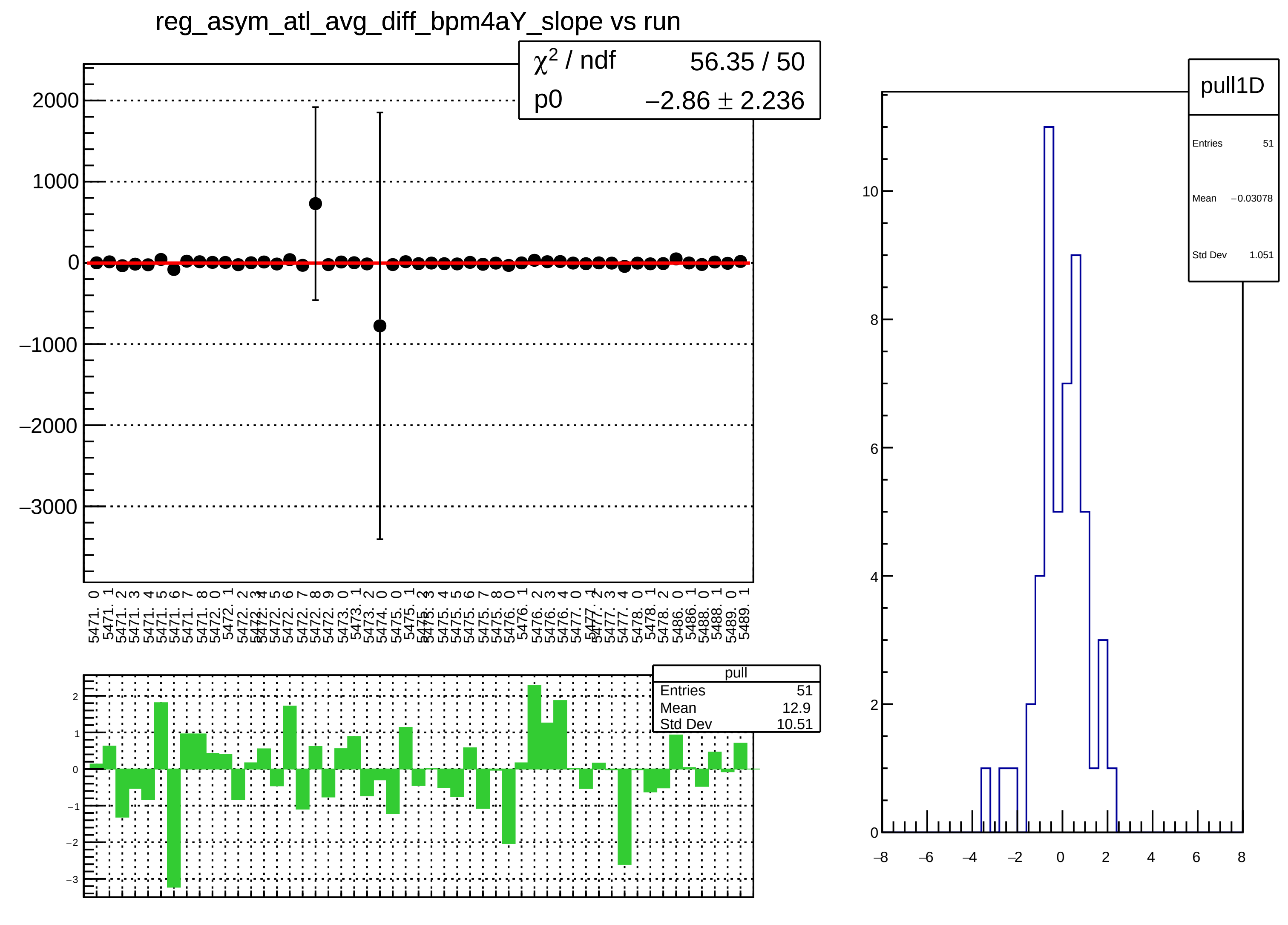
reg_asym_atr2_diff_bpm4eY_slope vs run
χ^2 / ndf 21.93 / 50
p0 62.11 ± 8.575
pull
Entries 51
Mean 1.635
Std Dev 6.829
pull1D
Entries 51
Mean −0.1703
Std Dev 0.6332



reg_asym_atr2_diff_bpm12X_slope vs run
χ^2 / ndf 248 / 50
p0 −173.6 ± 0.3026
pull
Entries 51
Mean −193.6
Std Dev 209.9
pull1D
Entries 51
Mean −0.02133
Std Dev 2.205

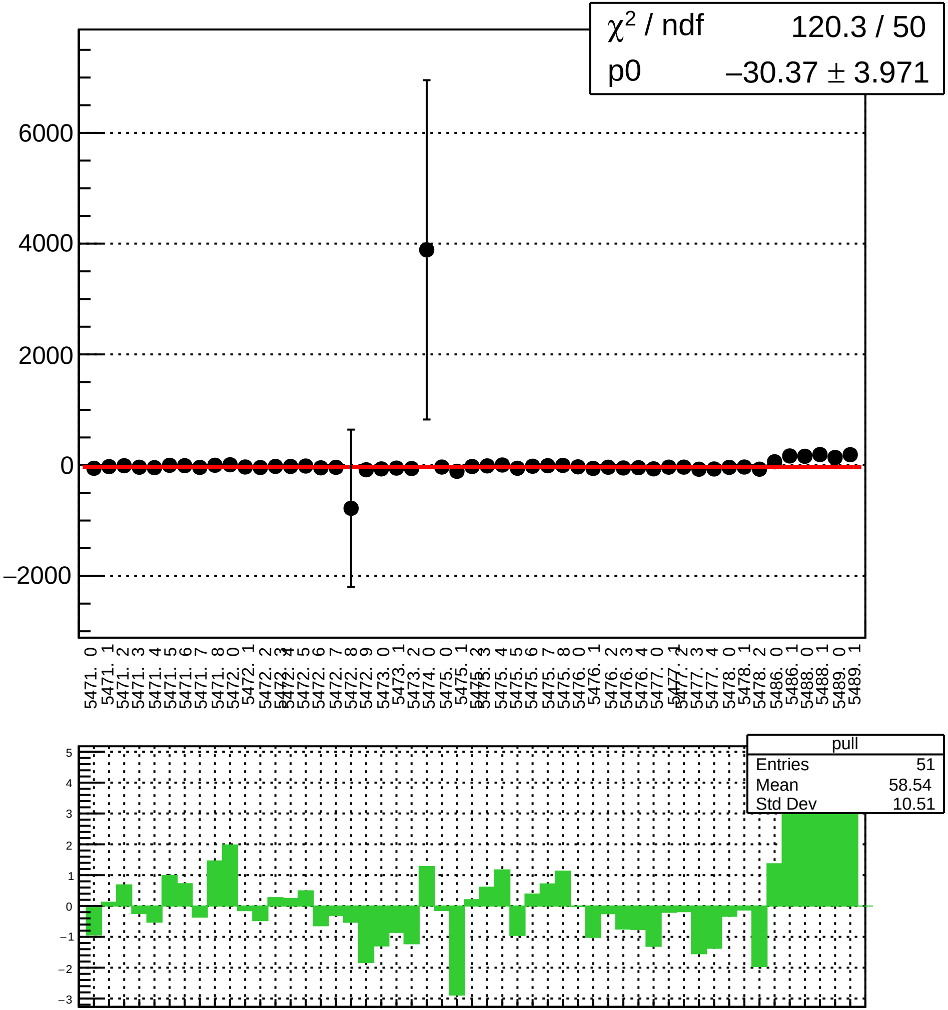


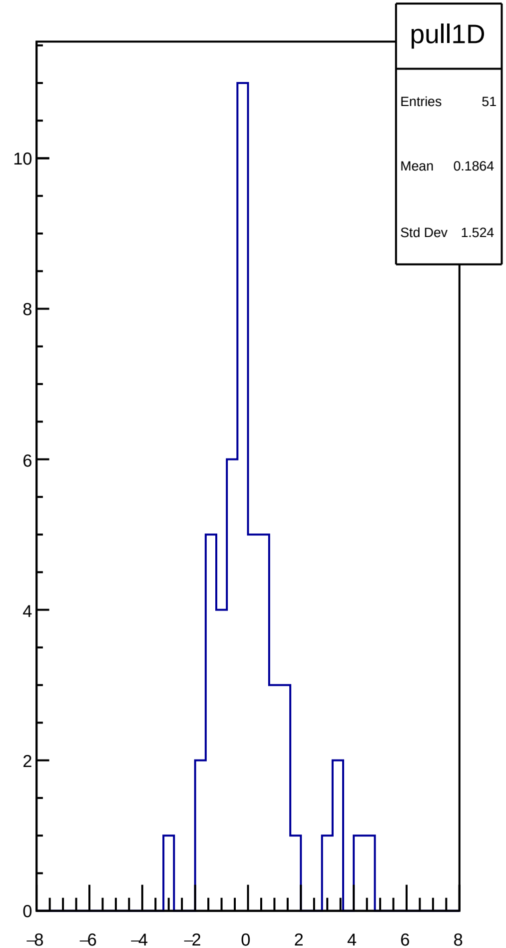
reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 86.5 / 50
p0 0.3368 ± 4.101
pull
Entries 51
Mean 52.36
Std Dev 18.45
pull1D
Entries 51
Mean −0.1297
Std Dev 1.296

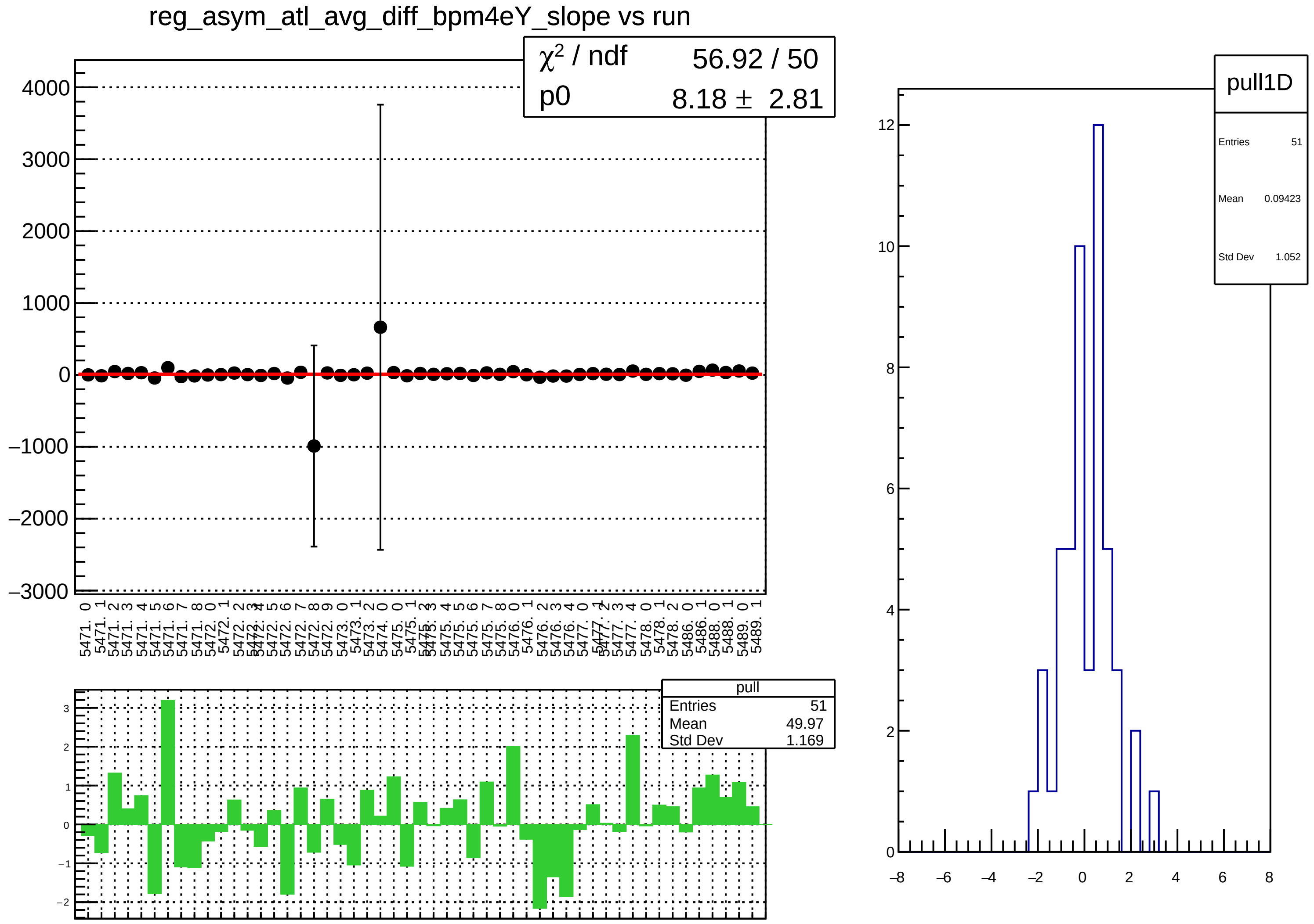


reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ2 / ndf 56.35 / 50
p0 −2.86 ± 2.236
pull
Entries 51
Mean 12.9
Std Dev 10.51
pull1D
Entries 51
Mean −0.03078
Std Dev 1.051

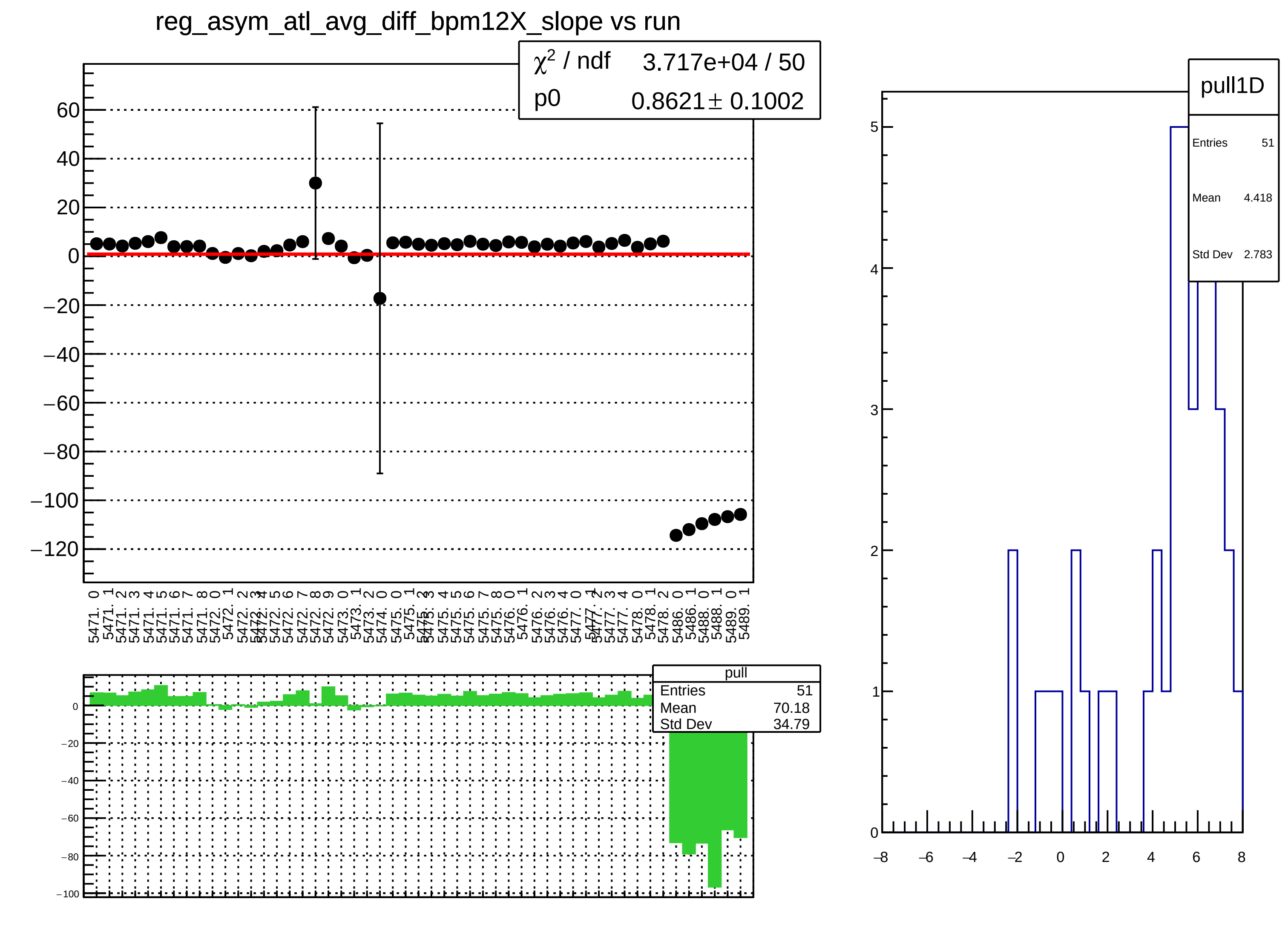
reg_asym_atl_avg_diff_bpm4eX_slope vs run



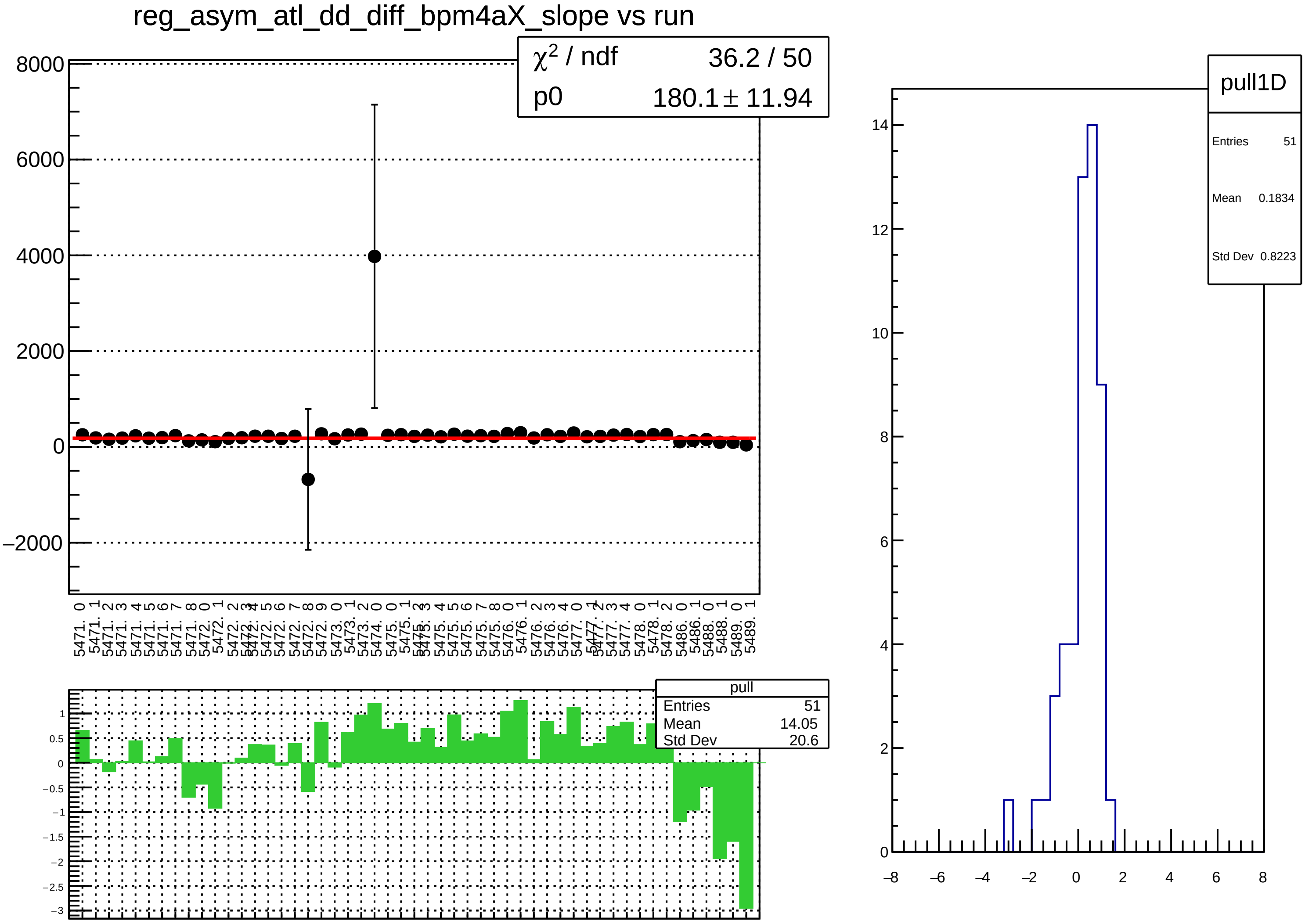




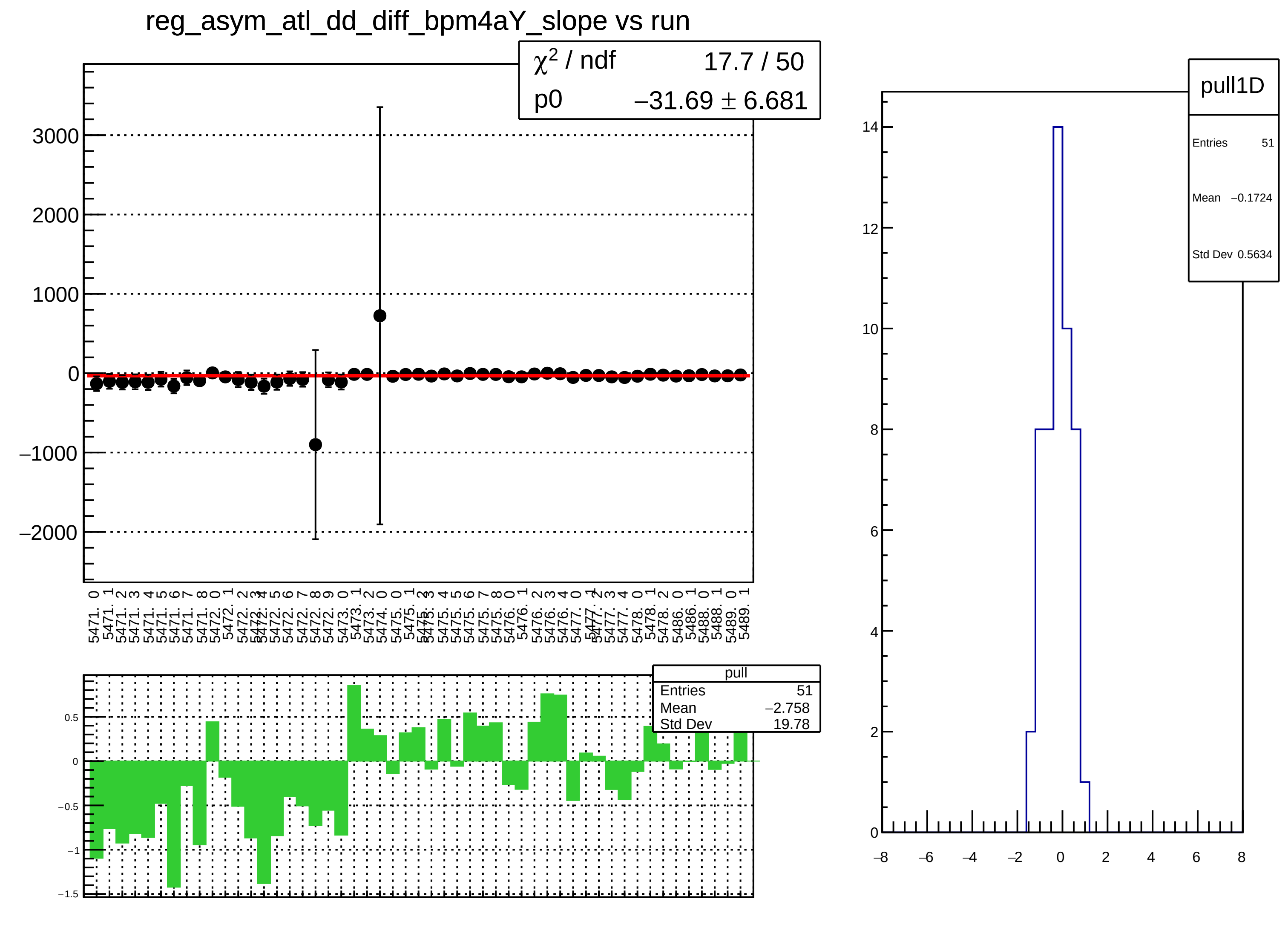
reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ2 / ndf 56.92 / 50
p0 8.18 ± 2.81
pull
Entries 51
Mean 49.97
Std Dev 1.169
pull1D
Entries 51
Mean 0.09423
Std Dev 1.052

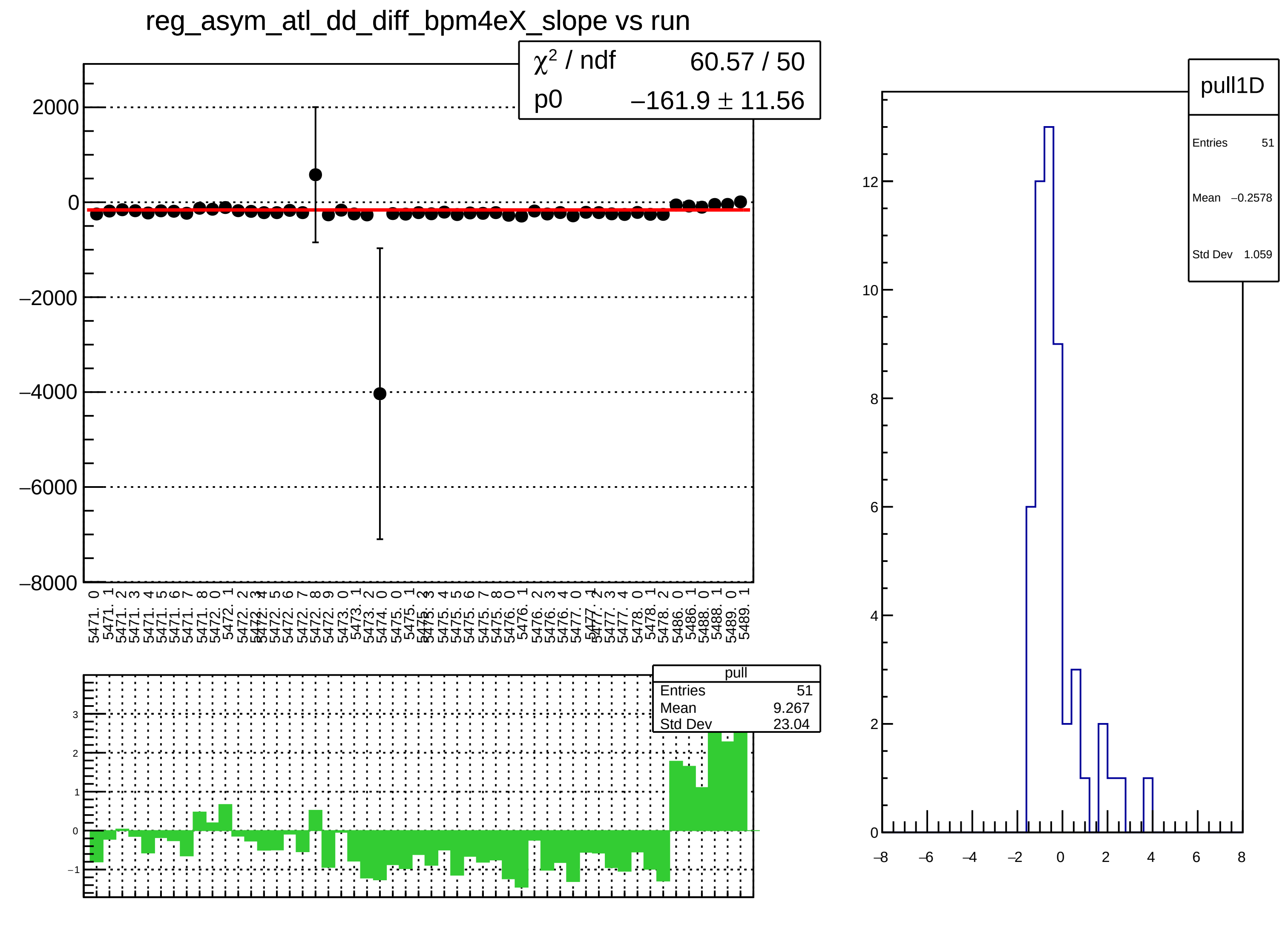


reg_asym_atl_avg_diff_bpm12X_slope vs run
χ2 / ndf 3.717e+04 / 50
p0 0.8621 ± 0.1002
60
40
20
0
−20
−40
−60
−80
−100
−120
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 70.18
Std Dev 34.79
0
−20
−40
−60
−80
−100
pull1D
Entries 51
Mean 4.418
Std Dev 2.783
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

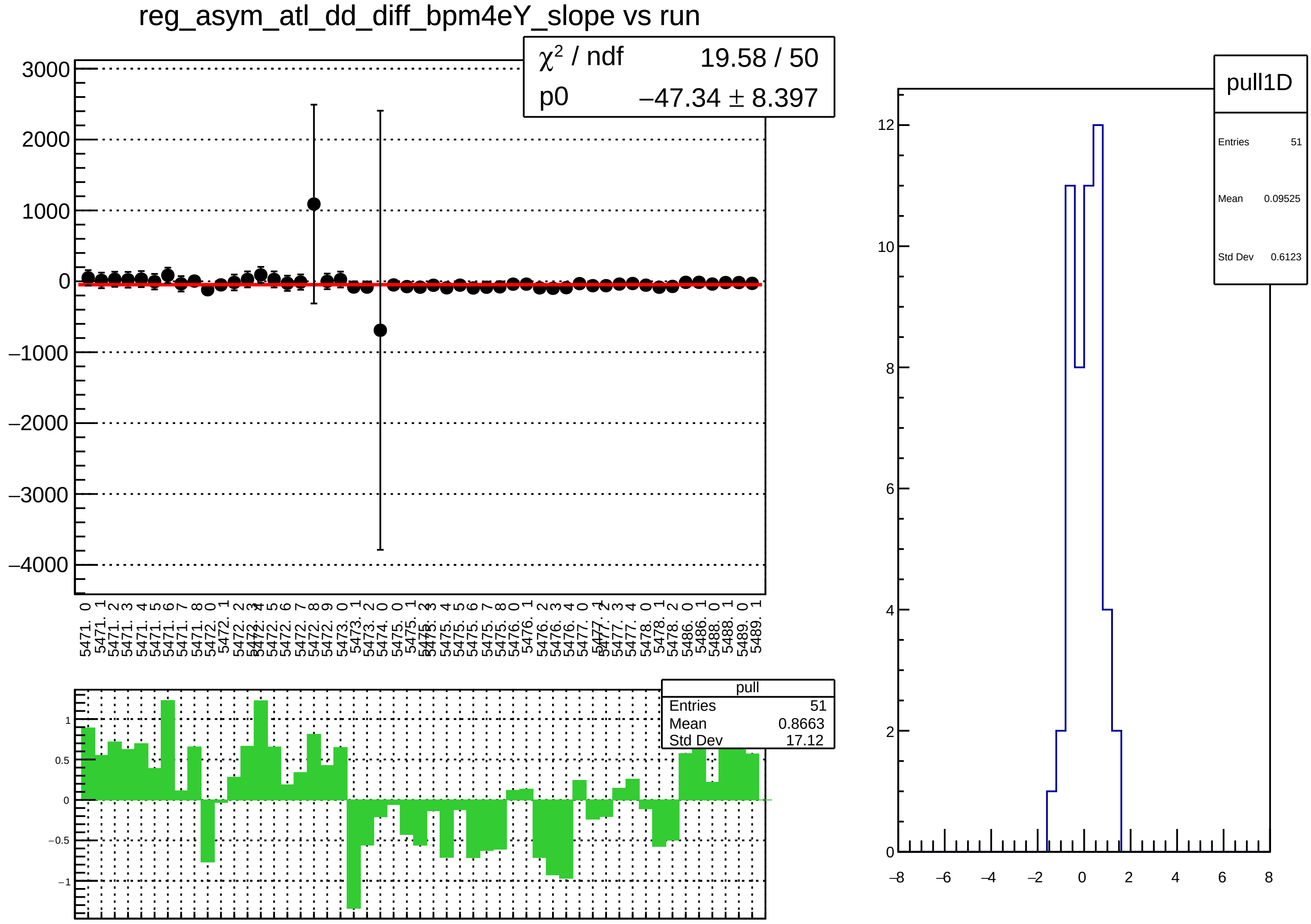


reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 36.2 / 50
p0 180.1 ± 11.94
pull
Entries 51
Mean 14.05
Std Dev 20.6
pull1D
Entries 51
Mean 0.1834
Std Dev 0.8223

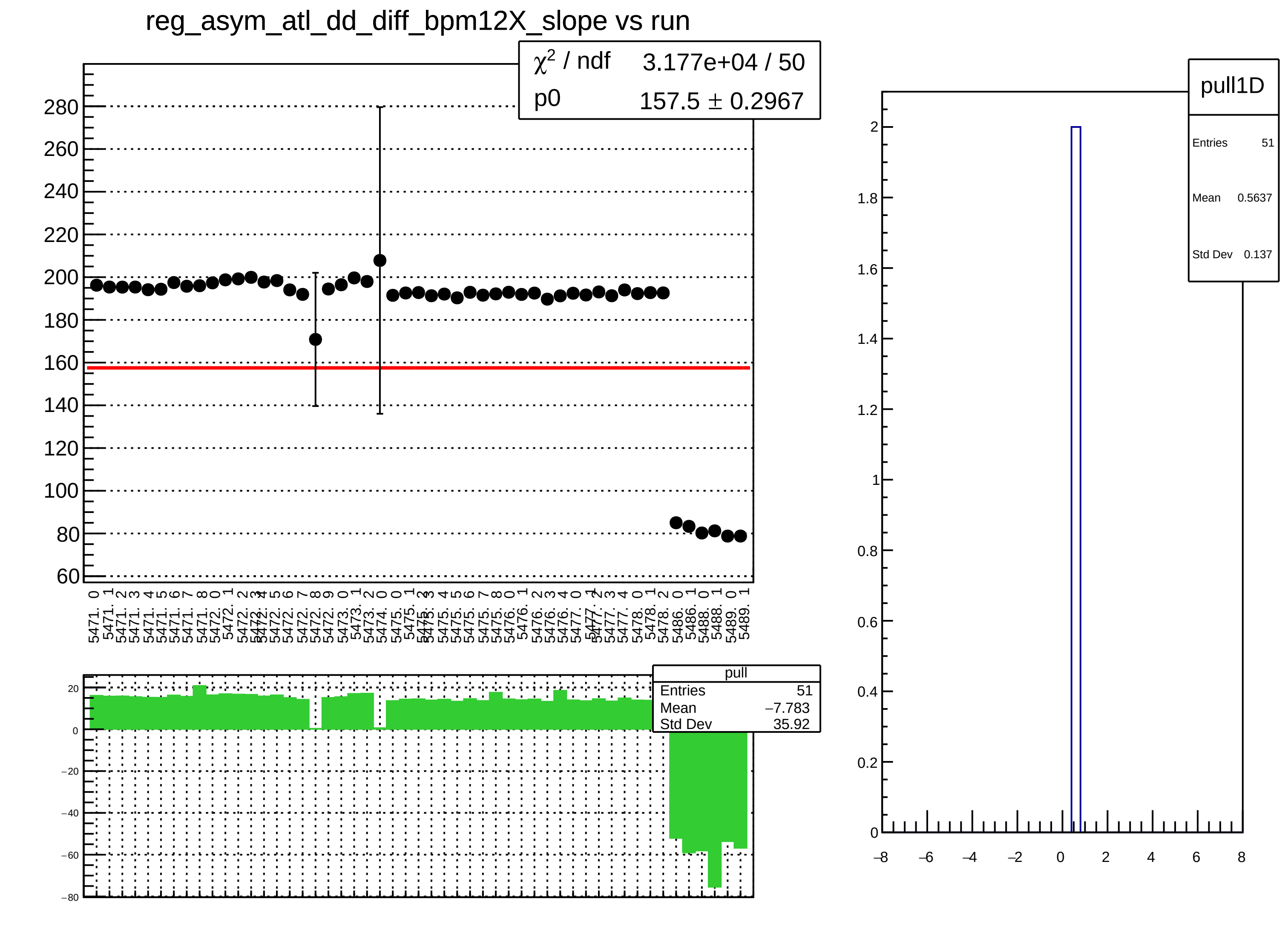

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 17.7 / 50
p0 −31.69 ± 6.681
pull
Entries 51
Mean −2.758
Std Dev 19.78
pull1D
Entries 51
Mean −0.1724
Std Dev 0.5634



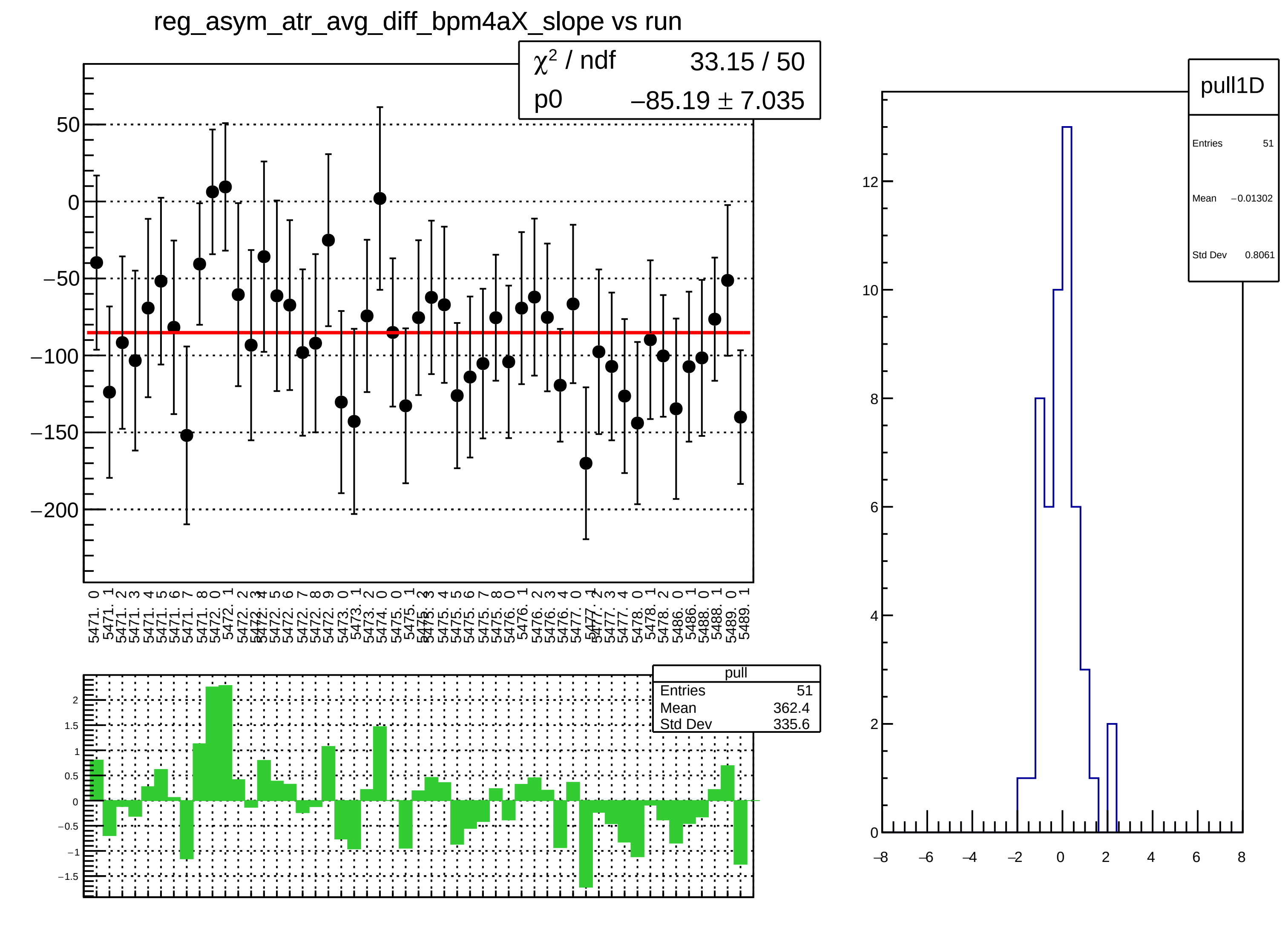
reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 60.57 / 50
p0 −161.9 ± 11.56
pull
Entries 51
Mean 9.267
Std Dev 23.04
pull1D
Entries 51
Mean −0.2578
Std Dev 1.059



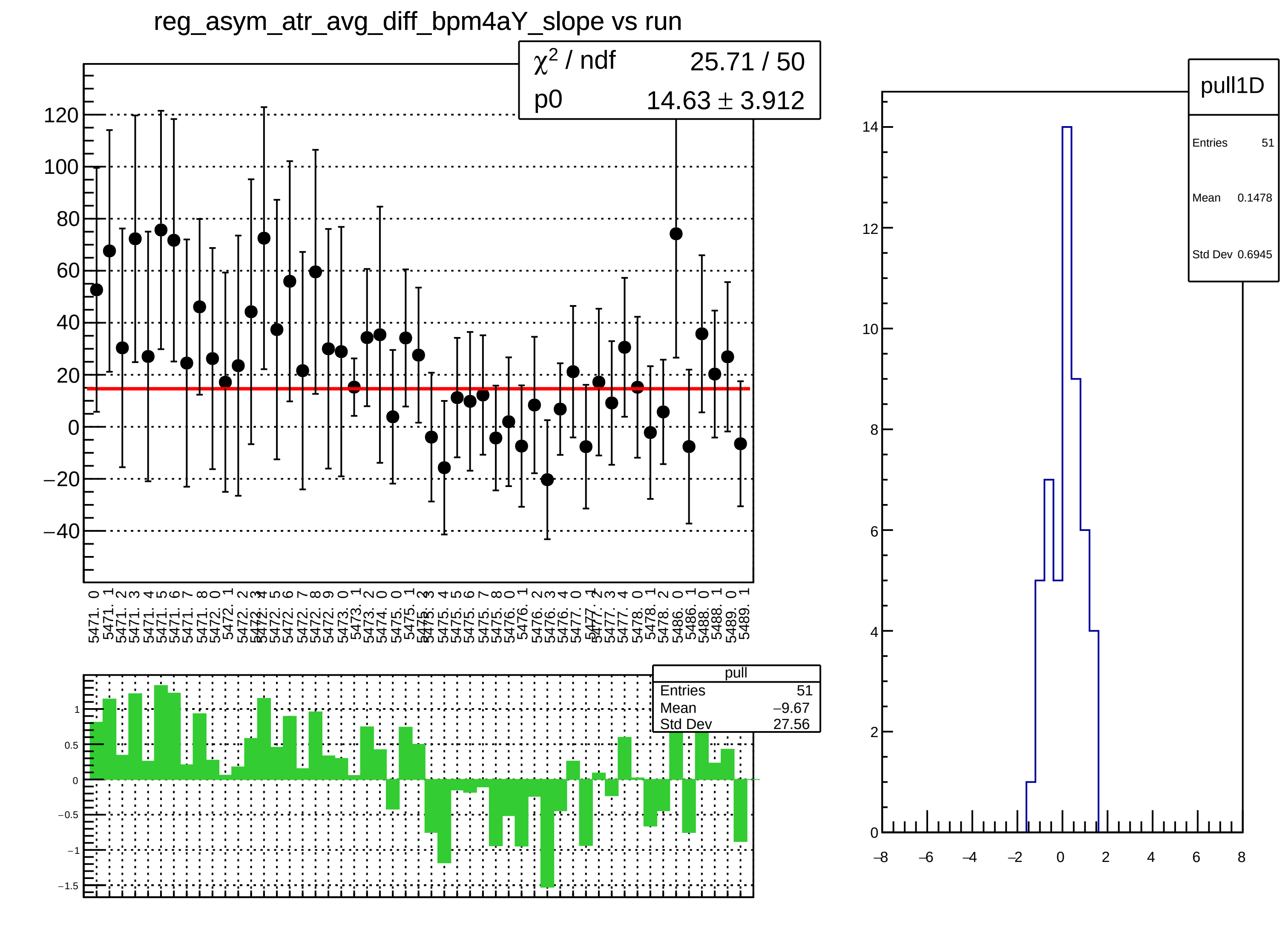
reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 19.58 / 50
p0 −47.34 ± 8.397
pull
Entries 51
Mean 0.8663
Std Dev 17.12
pull1D
Entries 51
Mean 0.09525
Std Dev 0.6123



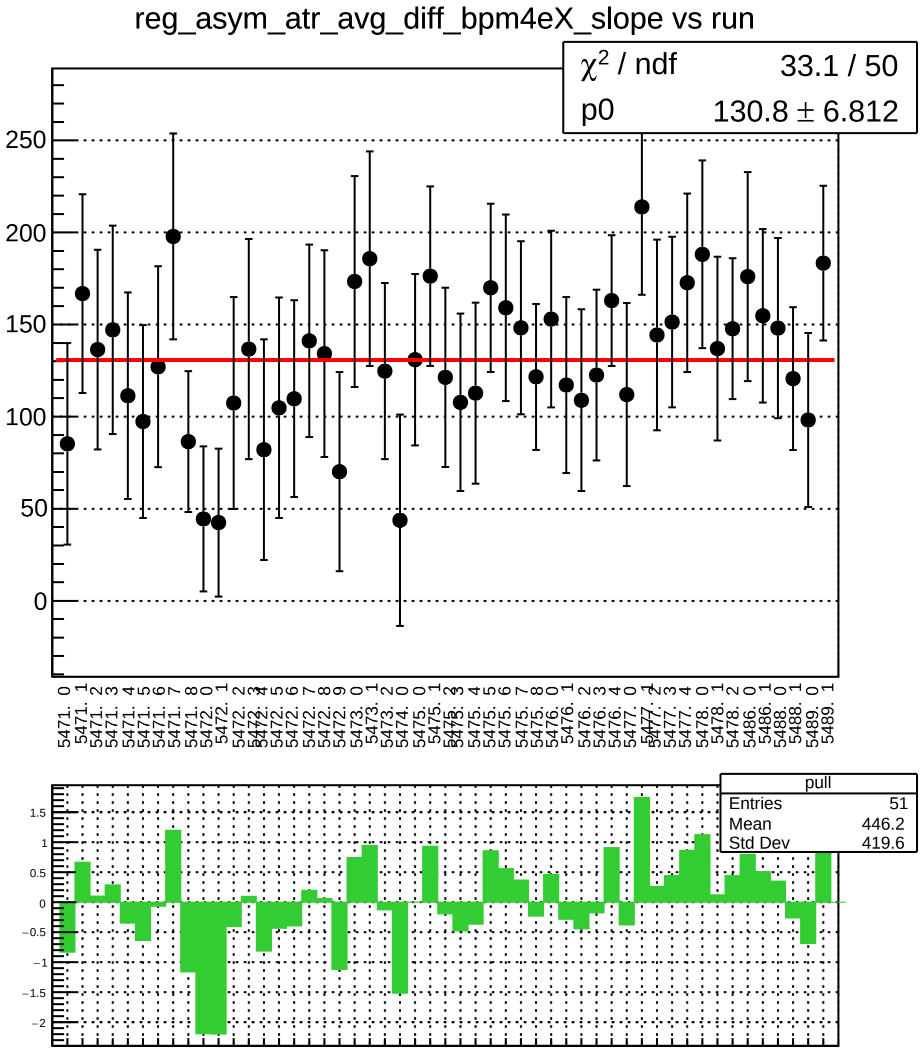
reg_asym_atl_dd_diff_bpm12X_slope vs run
χ^2 / ndf 3.177e+04 / 50
p0 157.5 ± 0.2967
pull
Entries 51
Mean −7.783
Std Dev 35.92
pull1D
Entries 51
Mean 0.5637
Std Dev 0.137

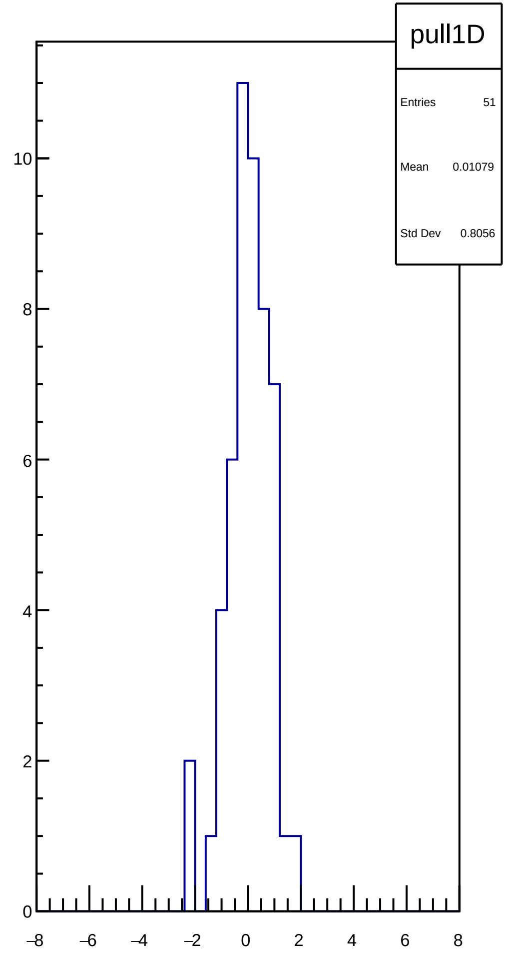


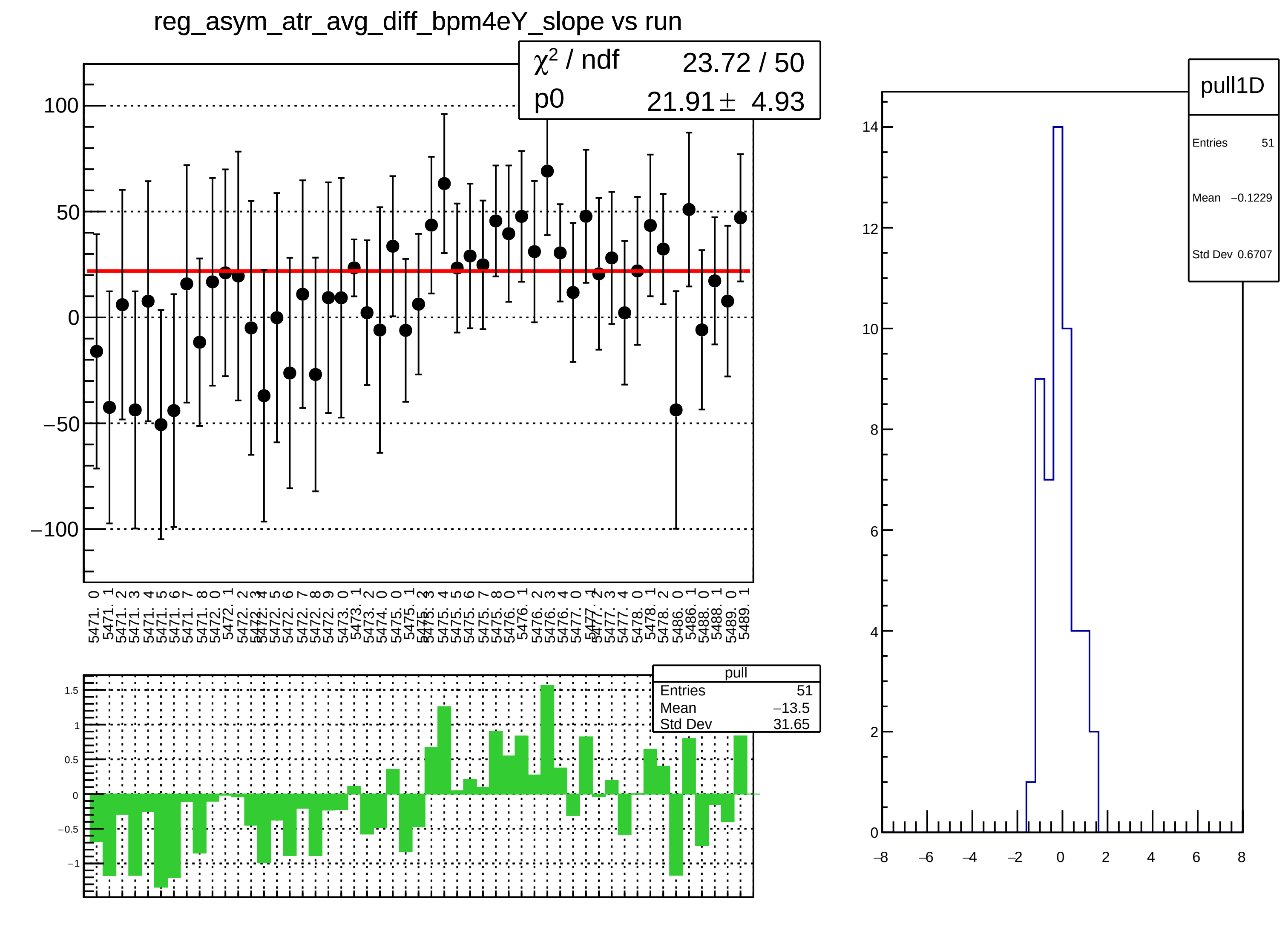
reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 33.15 / 50
p0 −85.19 ± 7.035
pull
Entries 51
Mean 362.4
Std Dev 335.6
pull1D
Entries 51
Mean −0.01302
Std Dev 0.8061

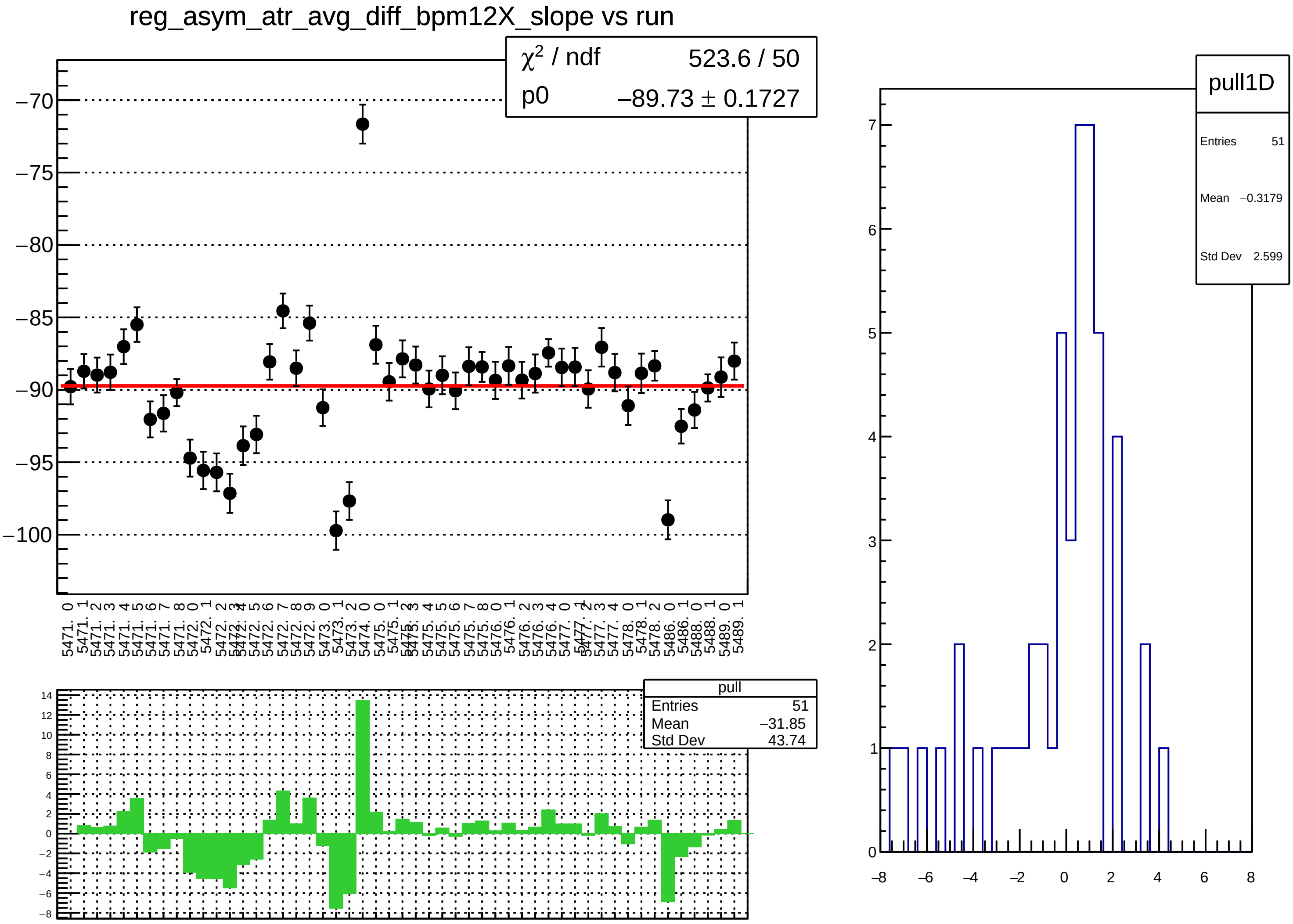


reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 25.71 / 50
p0 14.63 ± 3.912
pull
Entries 51
Mean −9.67
Std Dev 27.56
pull1D
Entries 51
Mean 0.1478
Std Dev 0.6945

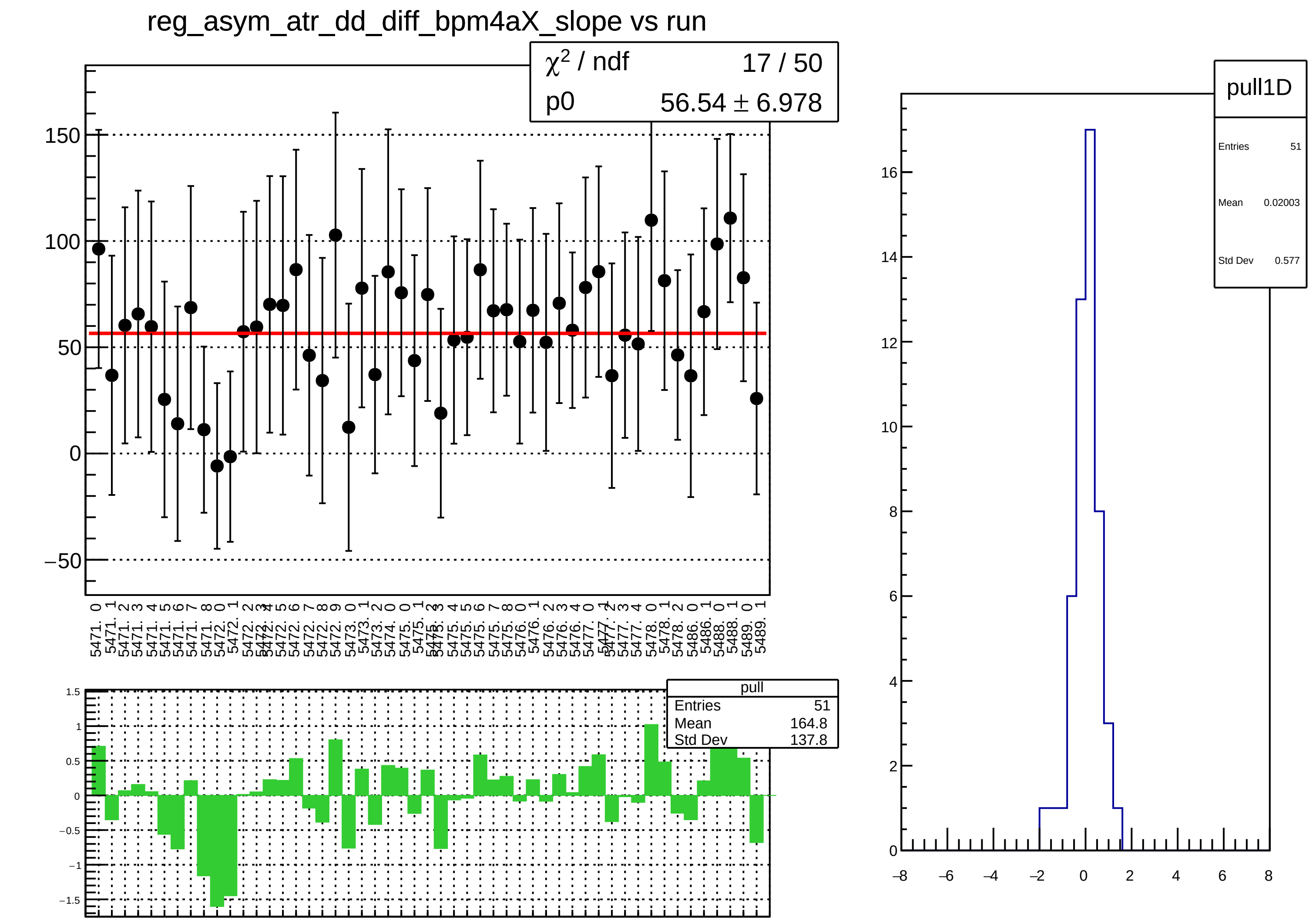

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 33.1 / 50
p0 130.8 ± 6.812
pull
Entries 51
Mean 446.2
Std Dev 419.6


pull1D
Entries 51
Mean 0.01079
Std Dev 0.8056

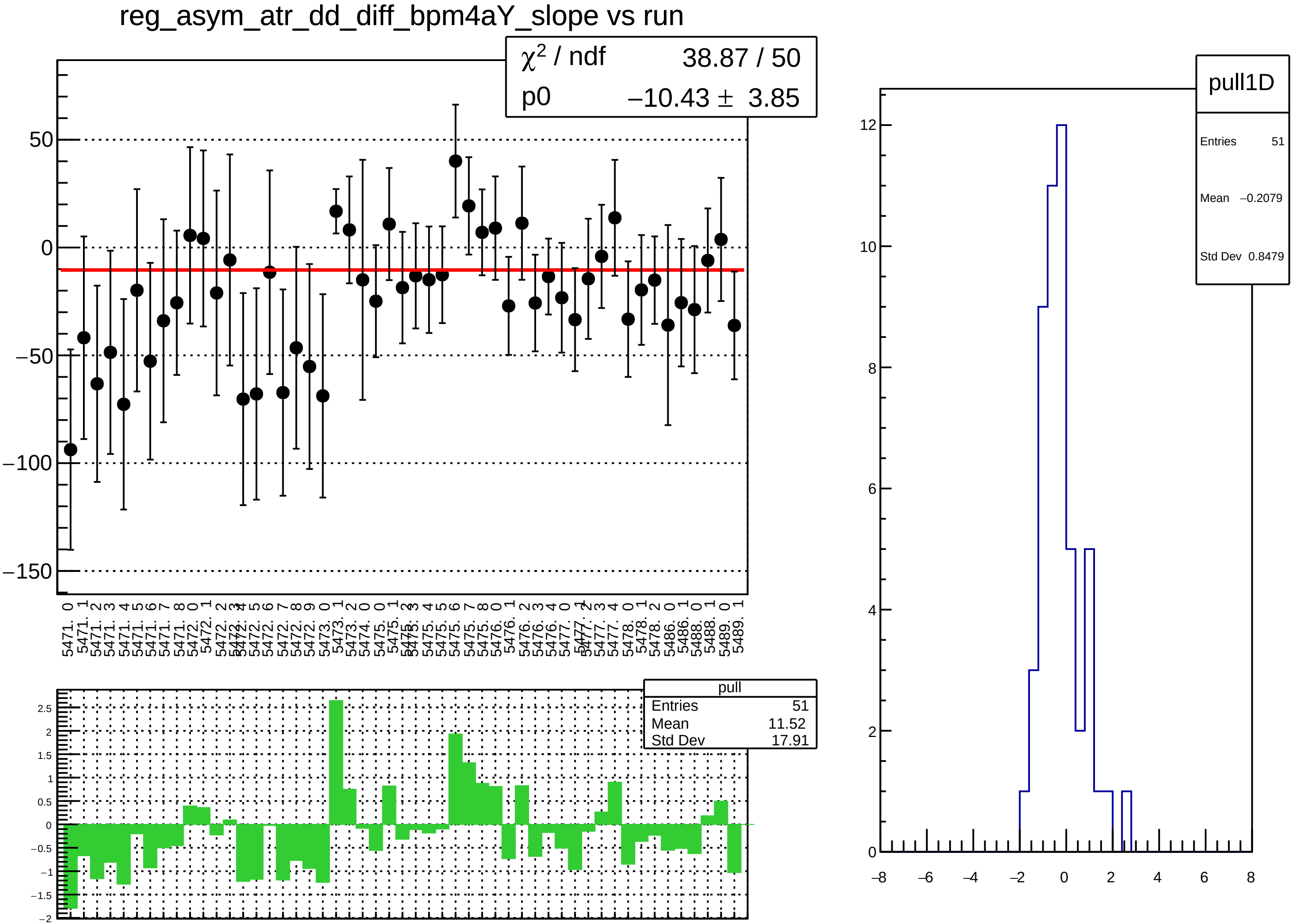

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 23.72 / 50
p0 21.91 ± 4.93
pull
Entries 51
Mean −13.5
Std Dev 31.65
pull1D
Entries 51
Mean −0.1229
Std Dev 0.6707



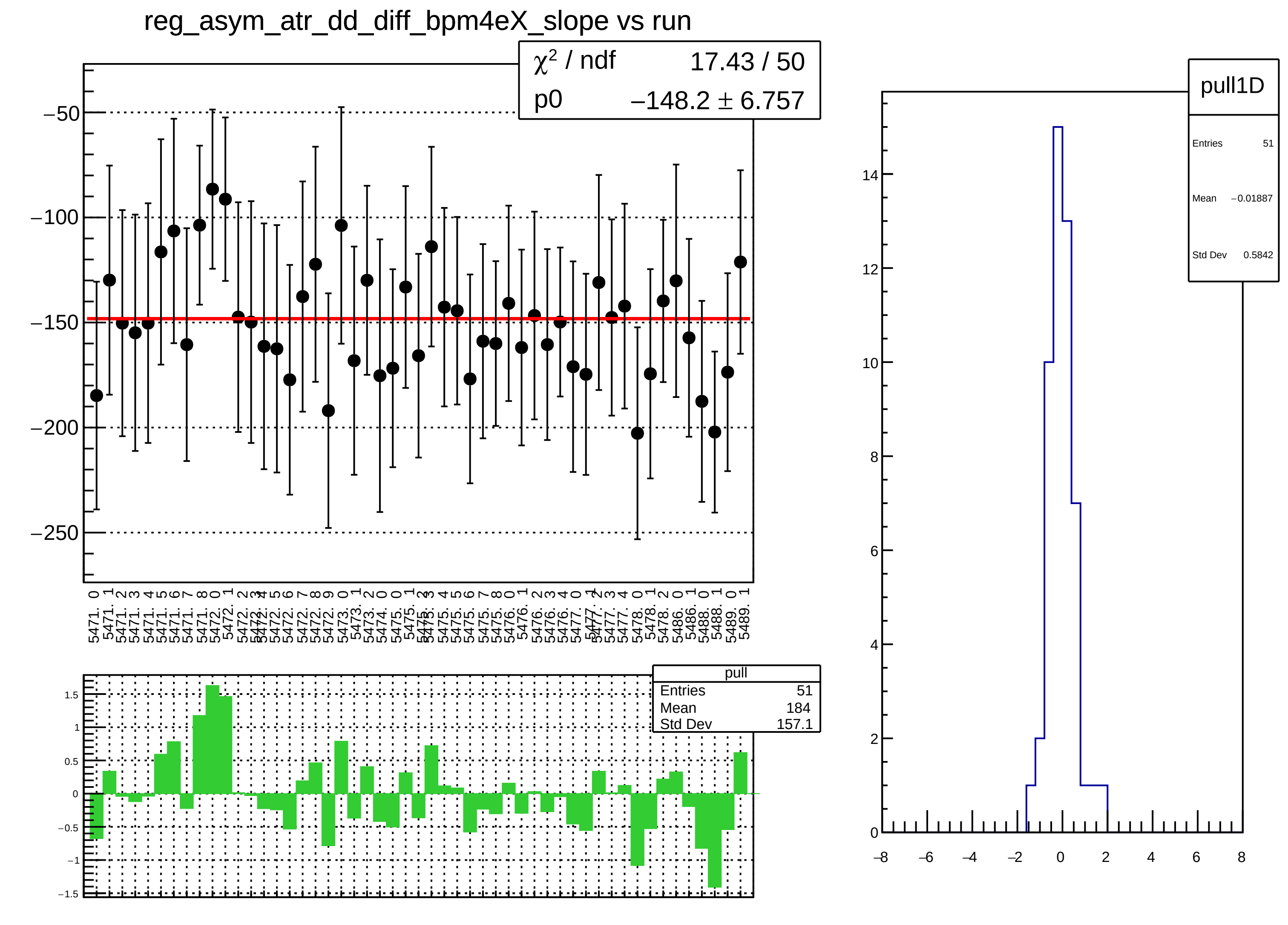
reg_asym_atr_avg_diff_bpm12X_slope vs run
χ2 / ndf 523.6 / 50
p0 −89.73 ± 0.1727
pull
Entries 51
Mean −31.85
Std Dev 43.74
pull1D
Entries 51
Mean −0.3179
Std Dev 2.599



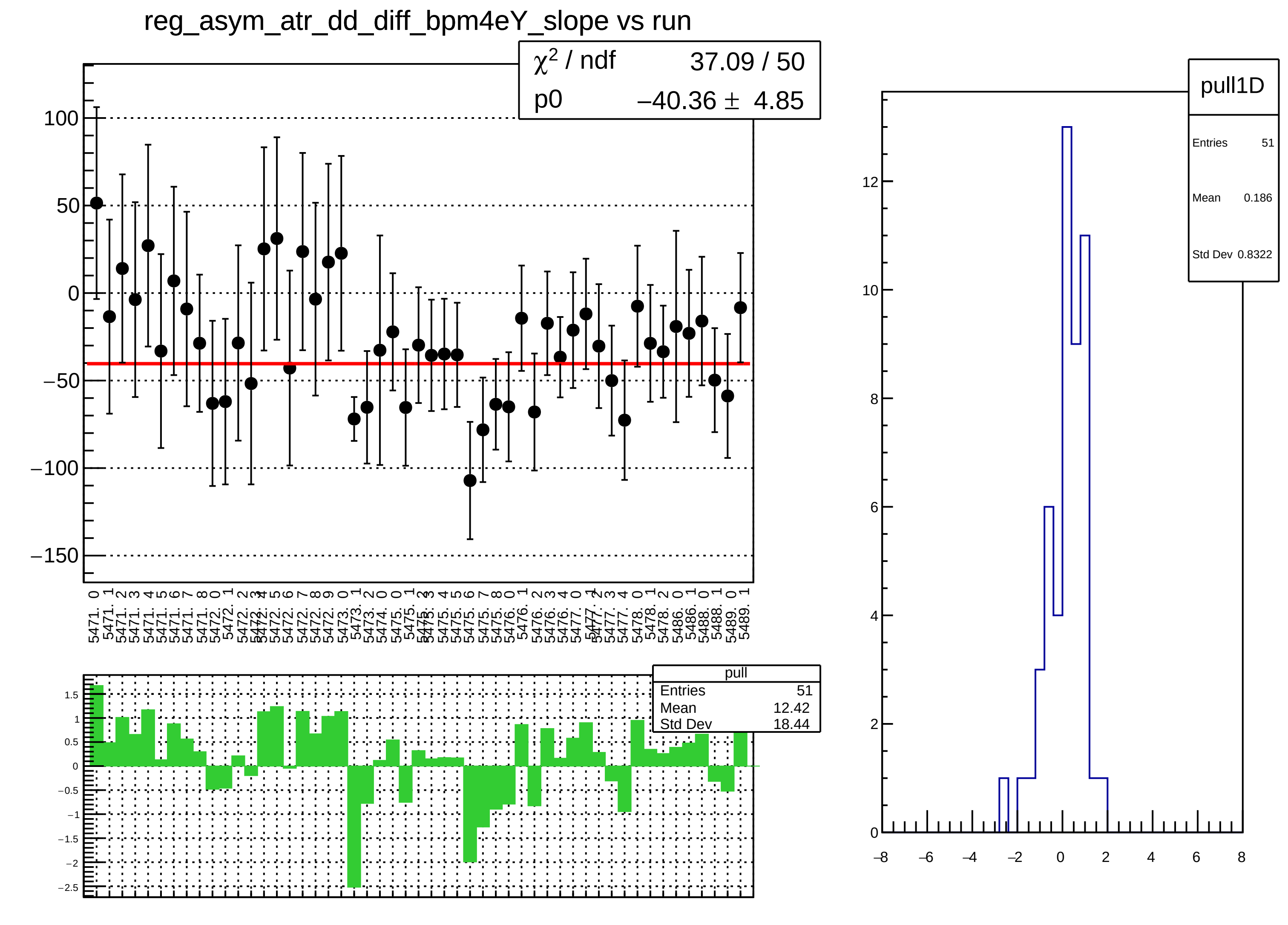
reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ2 / ndf 17 / 50
p0 56.54 ± 6.978
pull
Entries 51
Mean 164.8
Std Dev 137.8
pull1D
Entries 51
Mean 0.02003
Std Dev 0.577



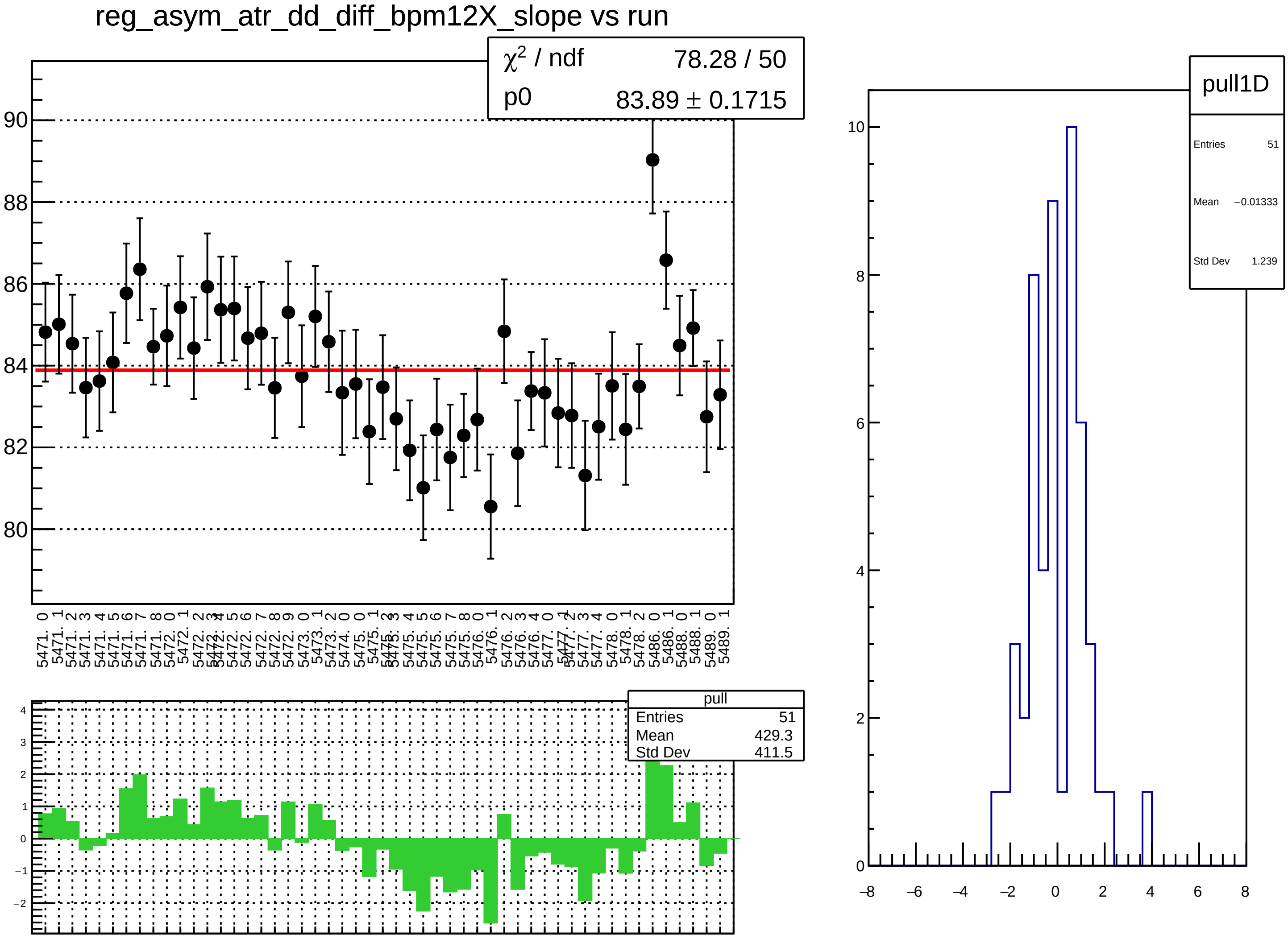
reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 38.87 / 50
p0 −10.43 ± 3.85
pull
Entries 51
Mean 11.52
Std Dev 17.91
pull1D
Entries 51
Mean −0.2079
Std Dev 0.8479



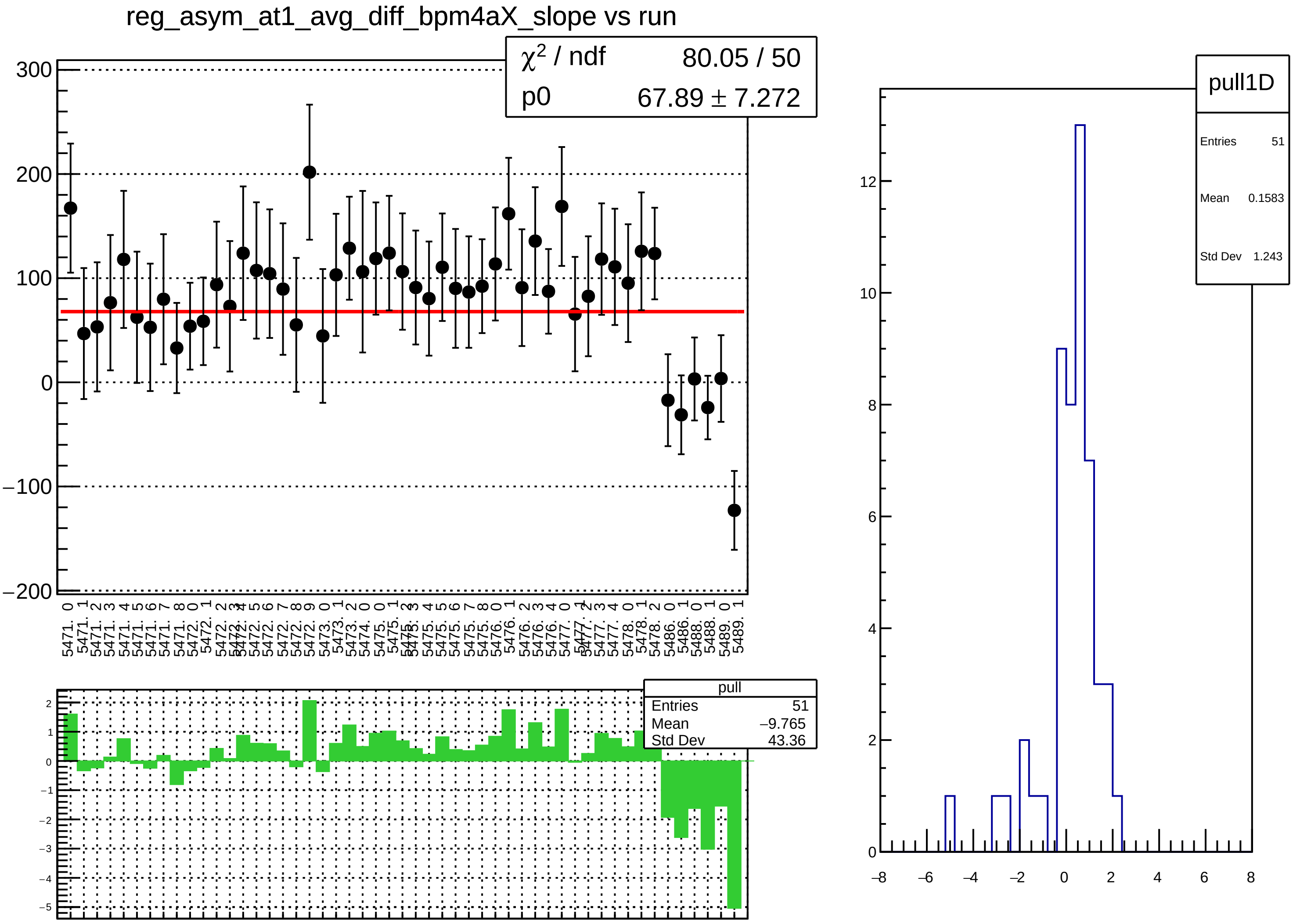
reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ2 / ndf 17.43 / 50
p0 −148.2 ± 6.757
pull
Entries 51
Mean 184
Std Dev 157.1
pull1D
Entries 51
Mean −0.01887
Std Dev 0.5842



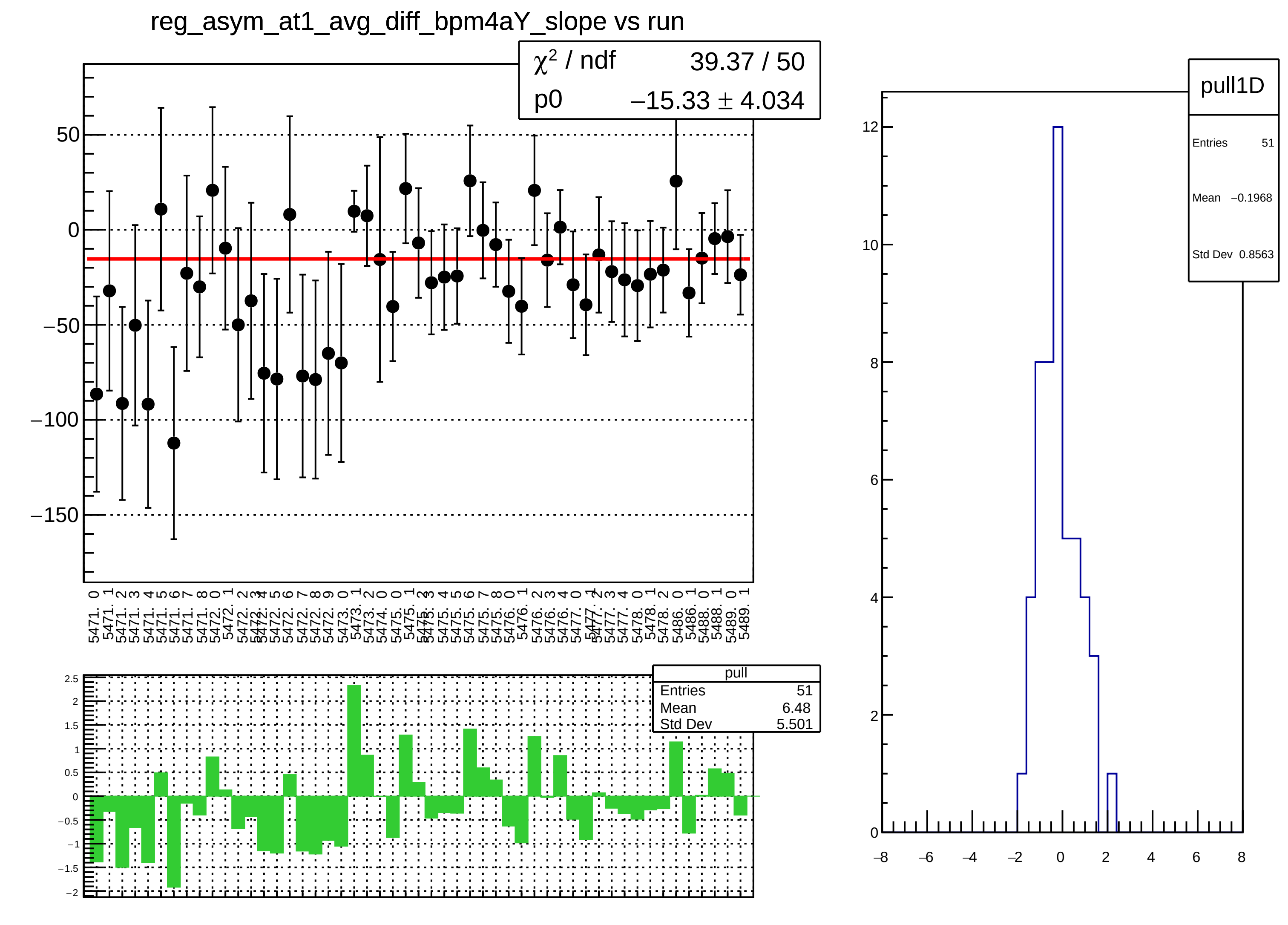
reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 37.09 / 50
p0 −40.36 ± 4.85
pull
Entries 51
Mean 12.42
Std Dev 18.44
pull1D
Entries 51
Mean 0.186
Std Dev 0.8322



reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 78.28 / 50
p0 83.89 ± 0.1715
pull
Entries 51
Mean 429.3
Std Dev 411.5
pull1D
Entries 51
Mean −0.01333
Std Dev 1.239

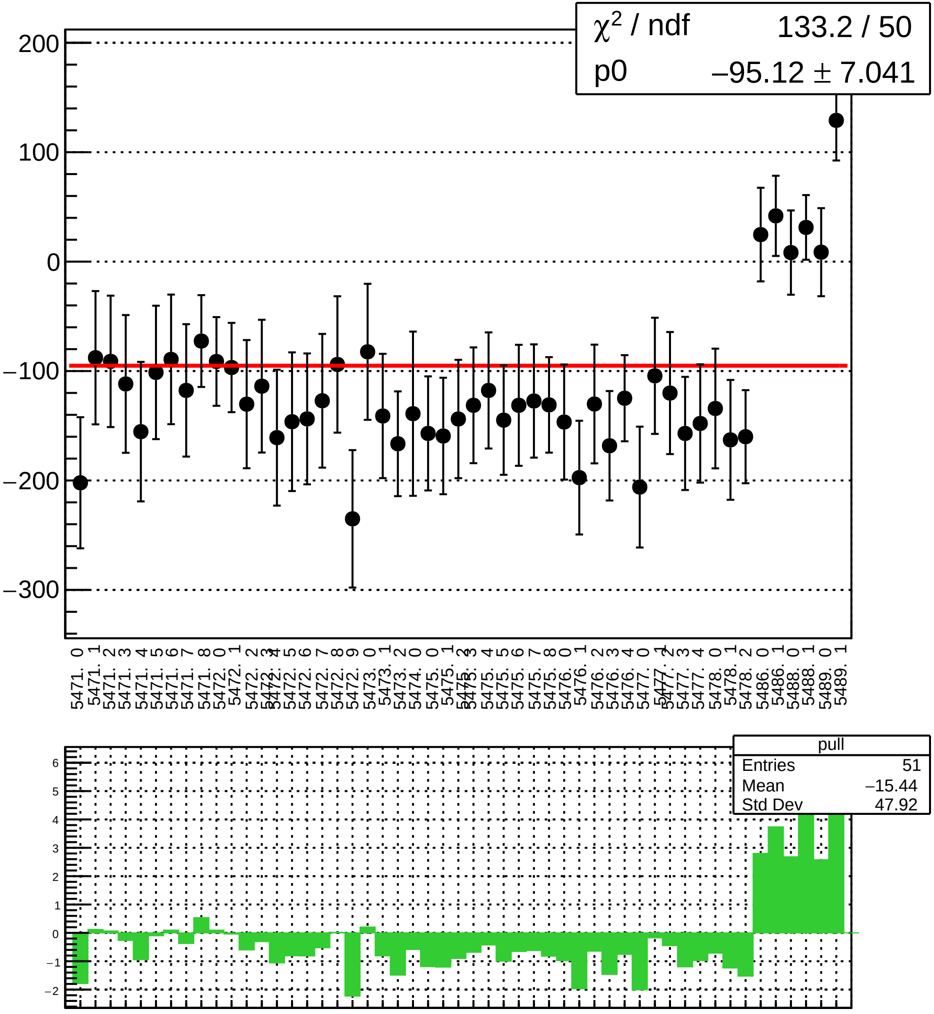


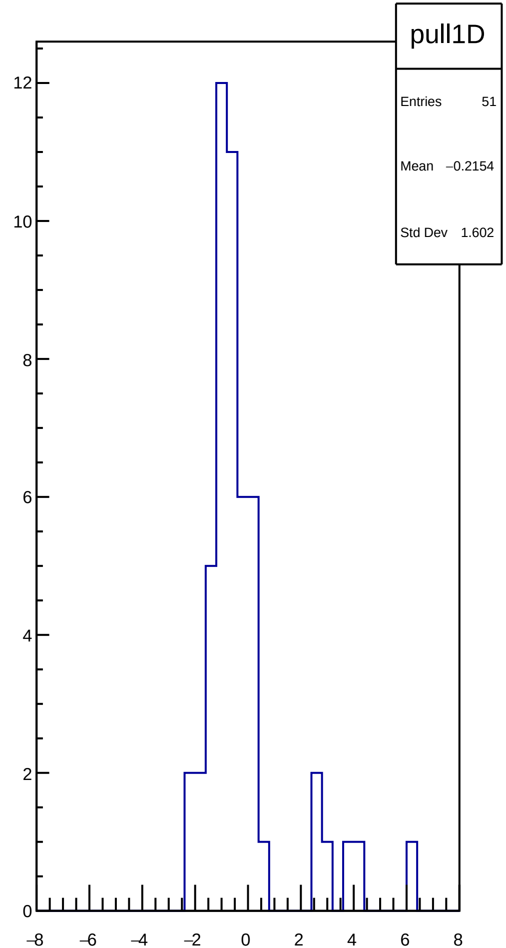
reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 80.05 / 50
p0 67.89 ± 7.272
pull
Entries 51
Mean −9.765
Std Dev 43.36
pull1D
Entries 51
Mean 0.1583
Std Dev 1.243

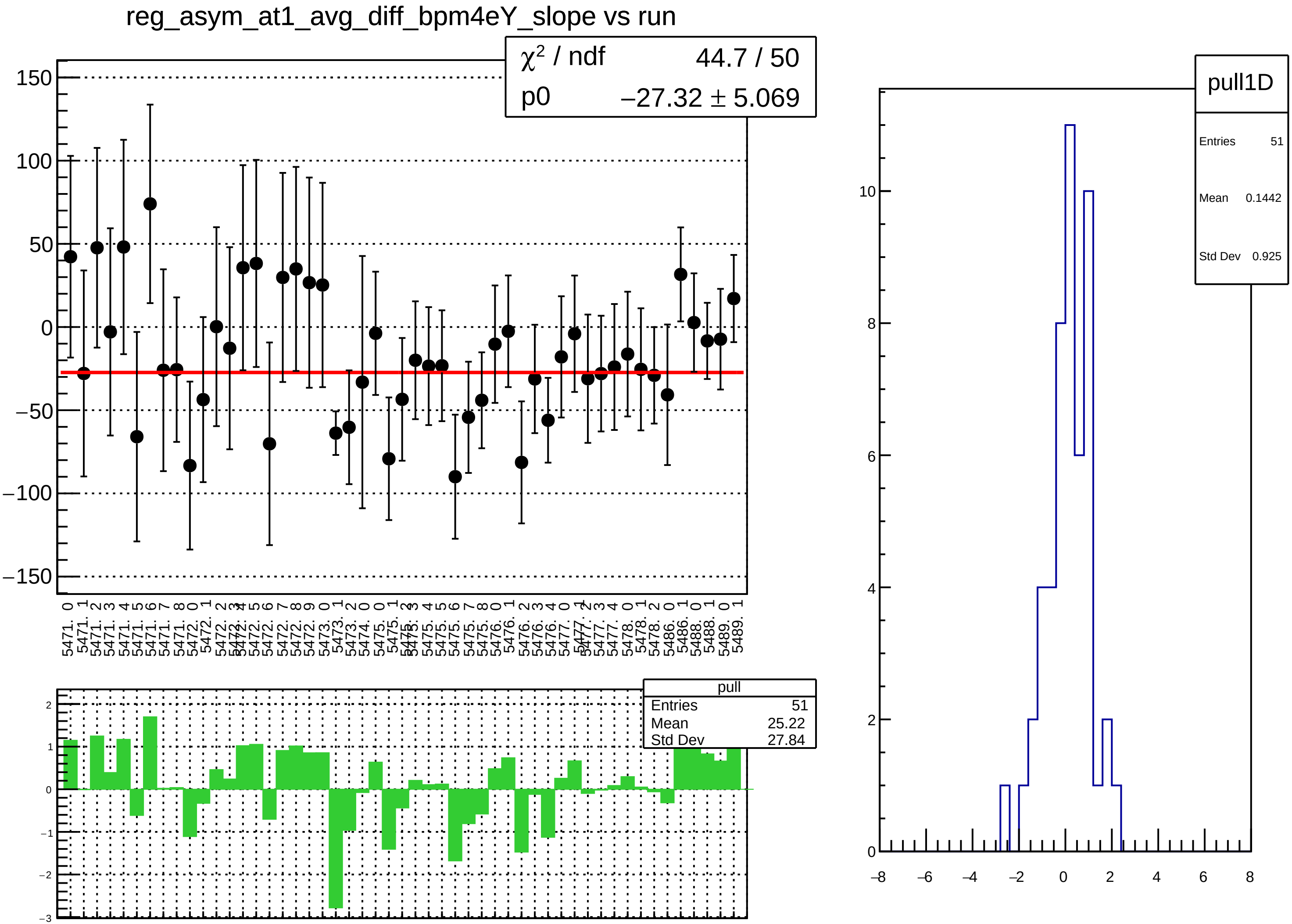


reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 39.37 / 50
p0 −15.33 ± 4.034
pull
Entries 51
Mean 6.48
Std Dev 5.501
pull1D
Entries 51
Mean −0.1968
Std Dev 0.8563

reg_asym_at1_avg_diff_bpm4eX_slope vs run

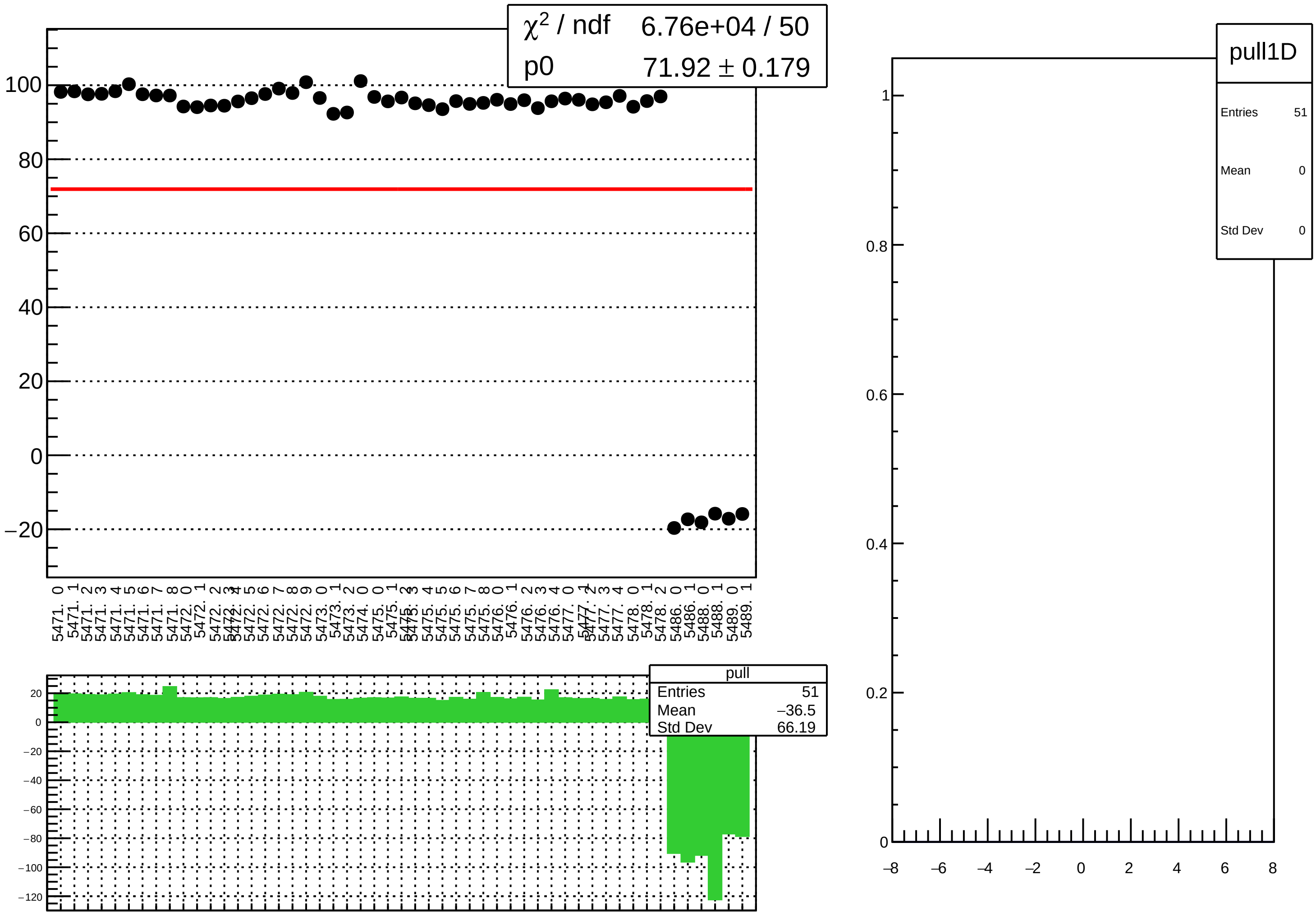


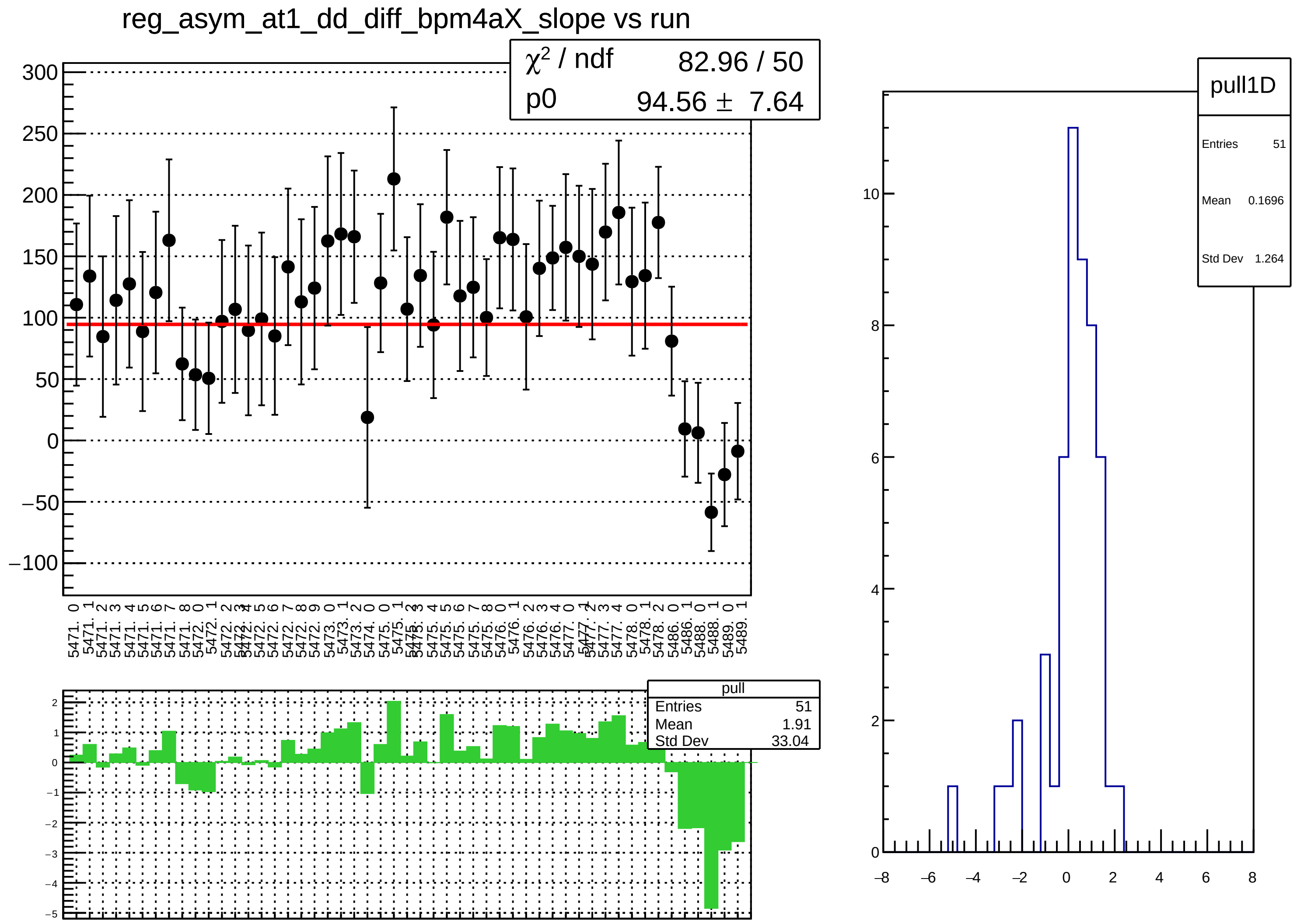




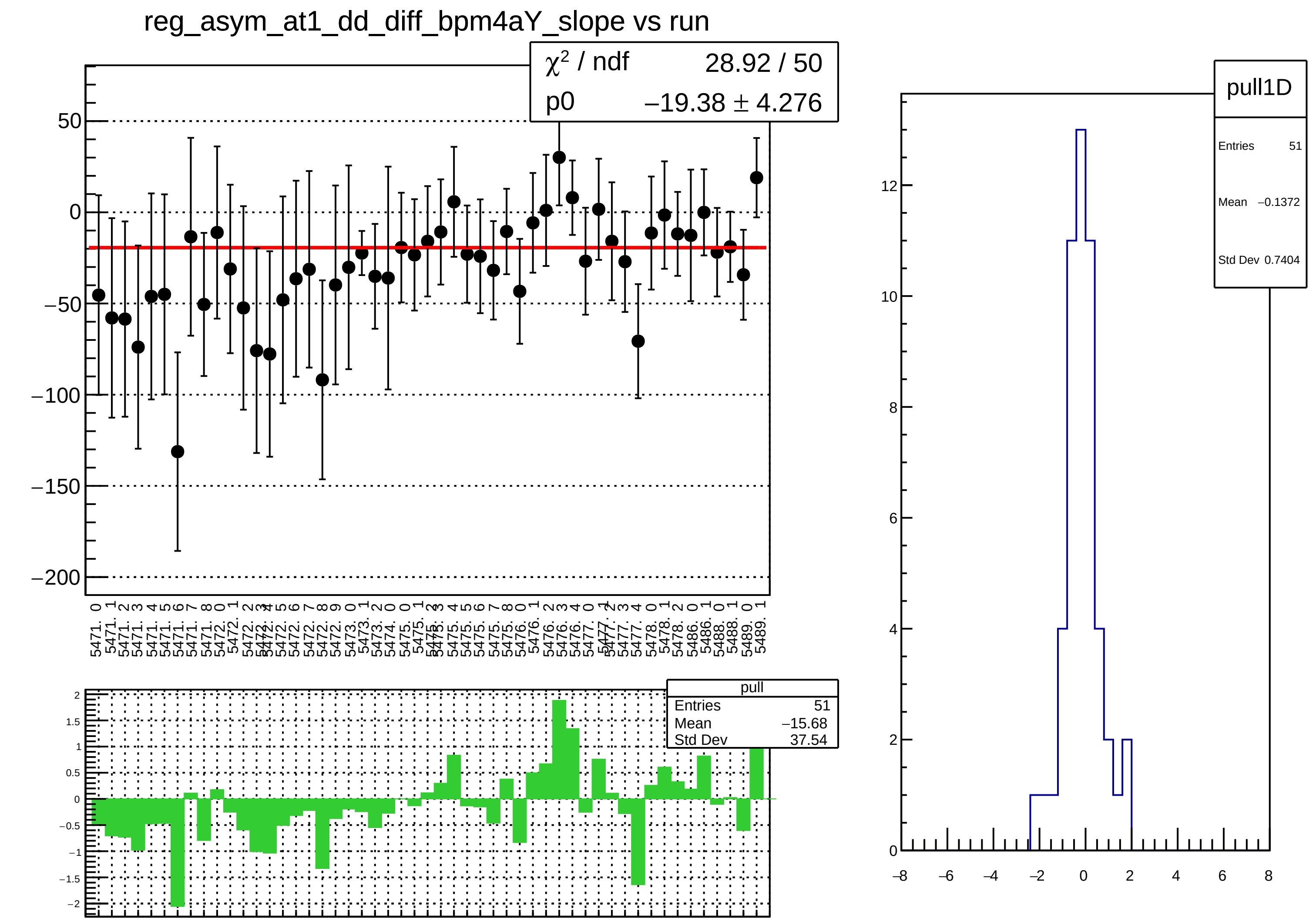
reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 44.7 / 50
p0 −27.32 ± 5.069
pull
Entries 51
Mean 25.22
Std Dev 27.84
pull1D
Entries 51
Mean 0.1442
Std Dev 0.925

reg_asym_at1_avg_diff_bpm12X_slope vs run

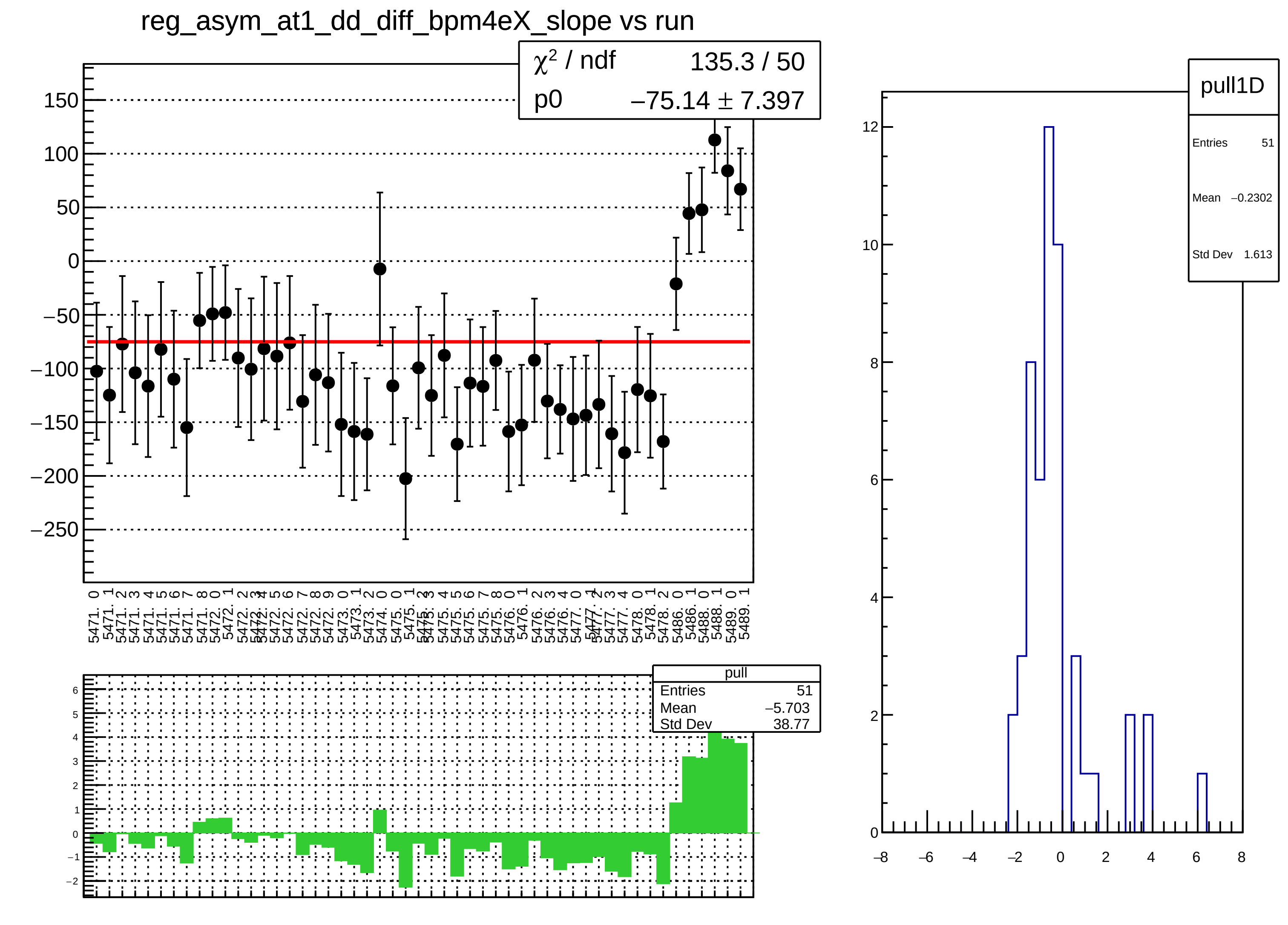




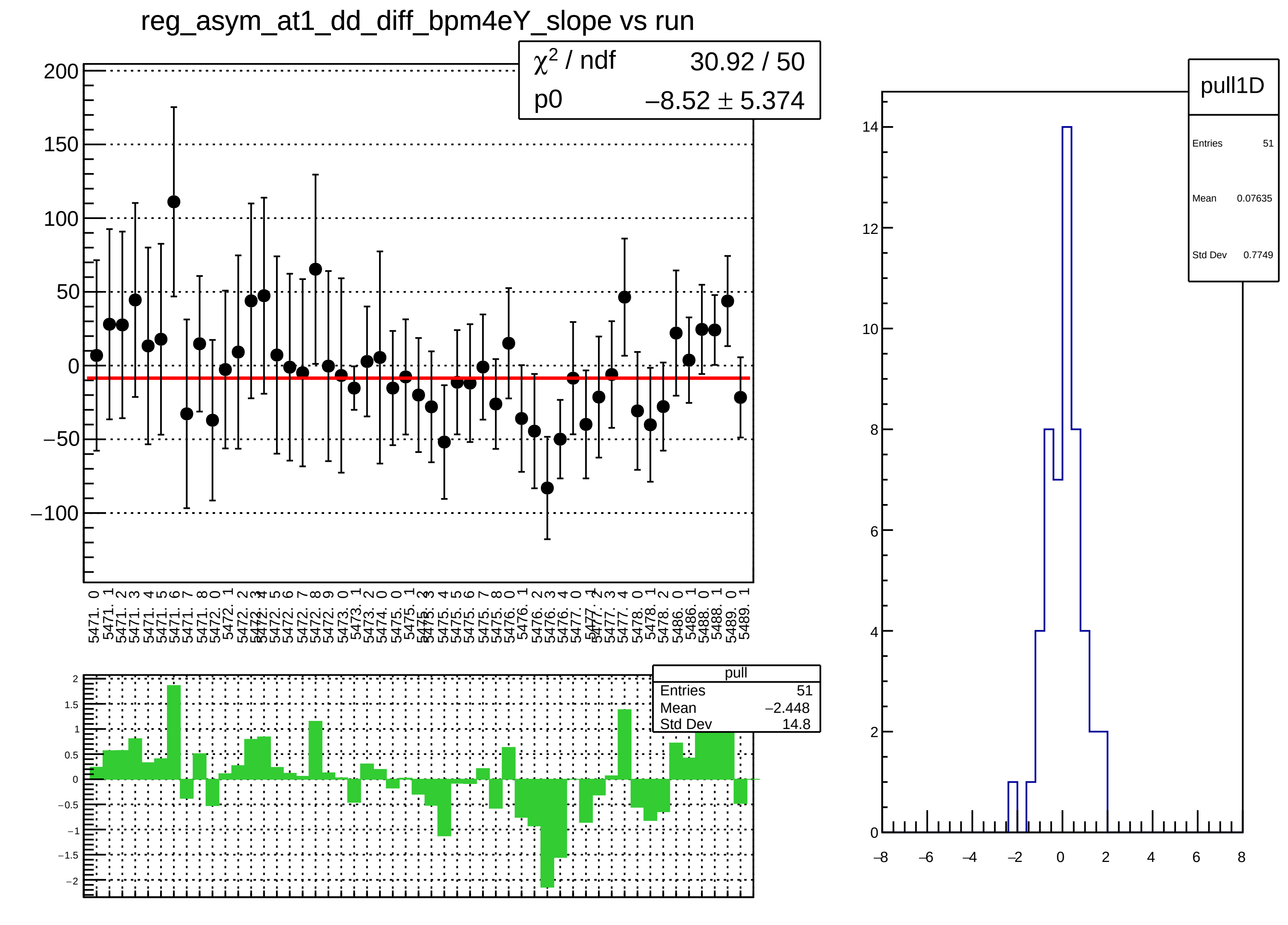
reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ2 / ndf 82.96 / 50
p0 94.56 ± 7.64
pull
Entries 51
Mean 1.91
Std Dev 33.04
pull1D
Entries 51
Mean 0.1696
Std Dev 1.264



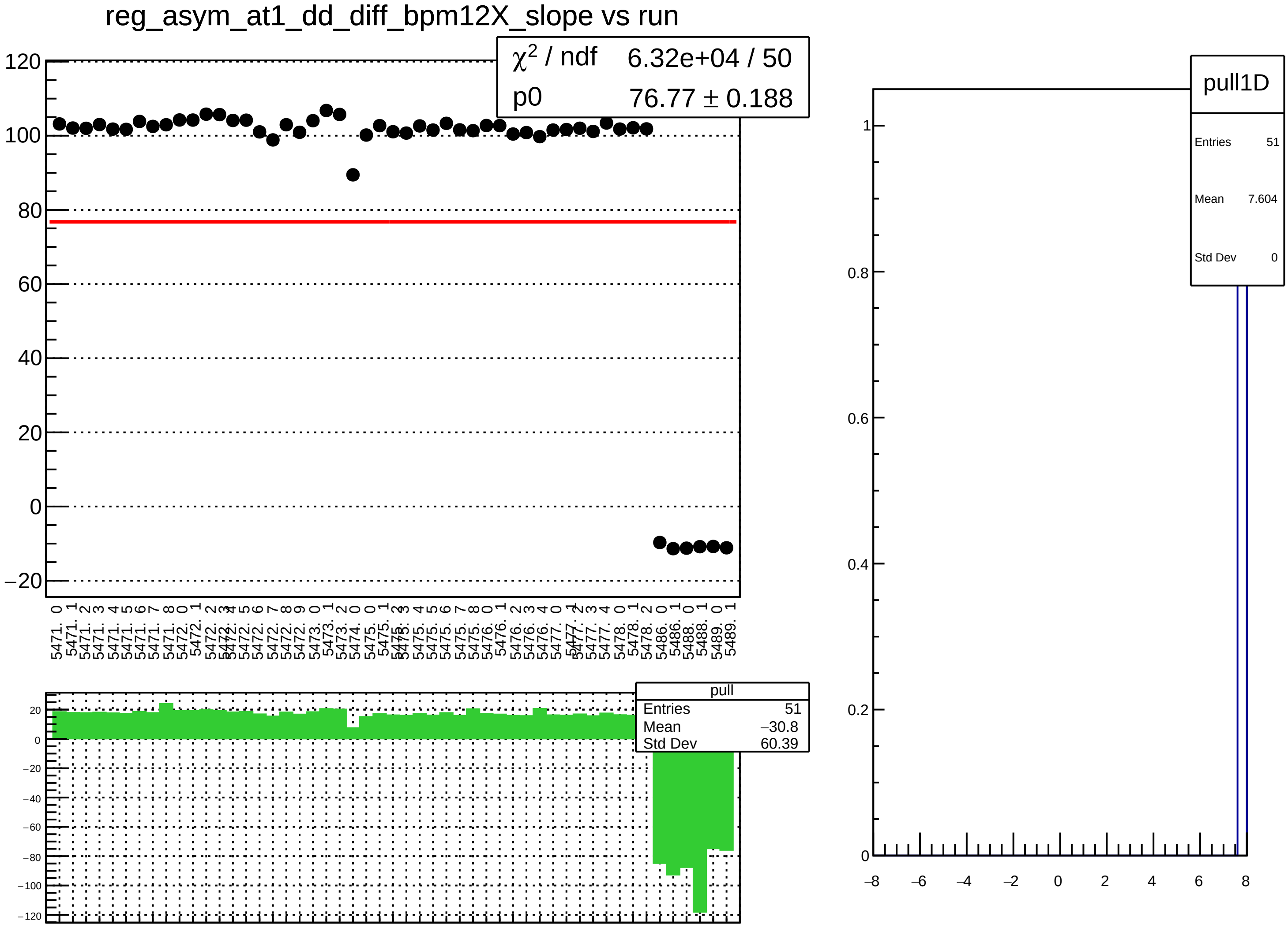
reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 28.92 / 50
p0 −19.38 ± 4.276
pull
Entries 51
Mean −15.68
Std Dev 37.54
pull1D
Entries 51
Mean −0.1372
Std Dev 0.7404



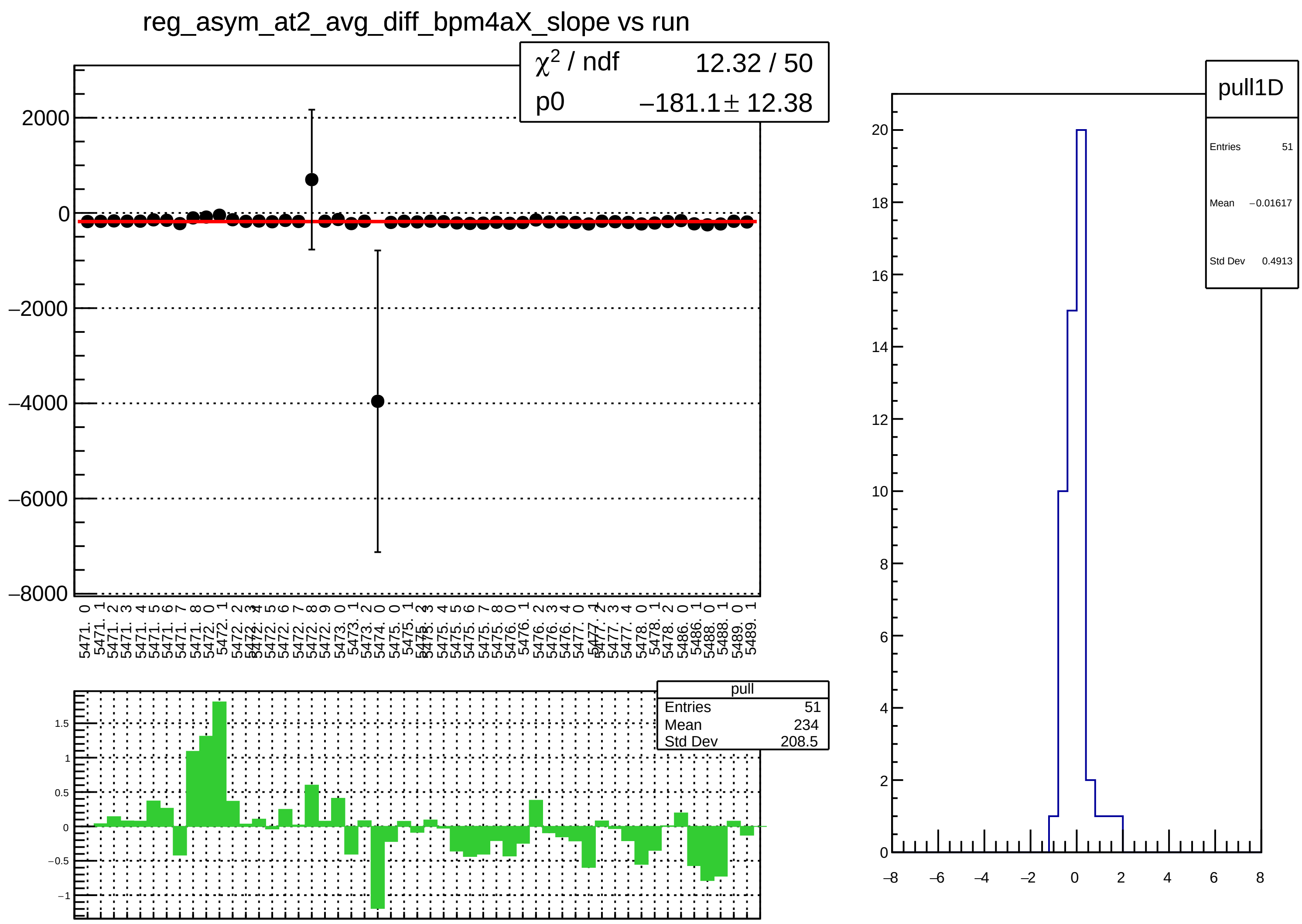
reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 135.3 / 50
p0 −75.14 ± 7.397
pull
Entries 51
Mean −5.703
Std Dev 38.77
pull1D
Entries 51
Mean −0.2302
Std Dev 1.613



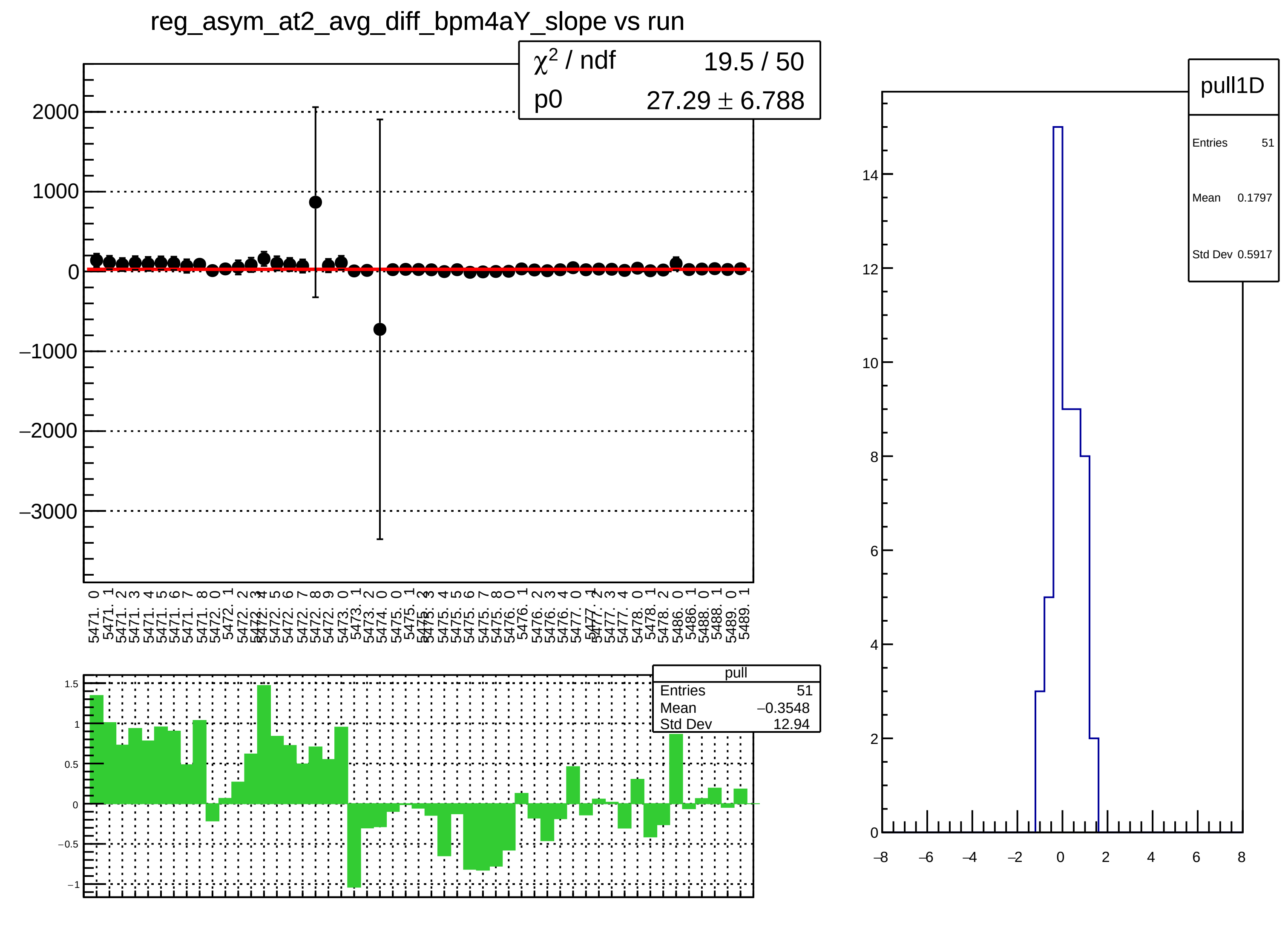
reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ2 / ndf 30.92 / 50
p0 −8.52 ± 5.374
pull
Entries 51
Mean −2.448
Std Dev 14.8
pull1D
Entries 51
Mean 0.07635
Std Dev 0.7749



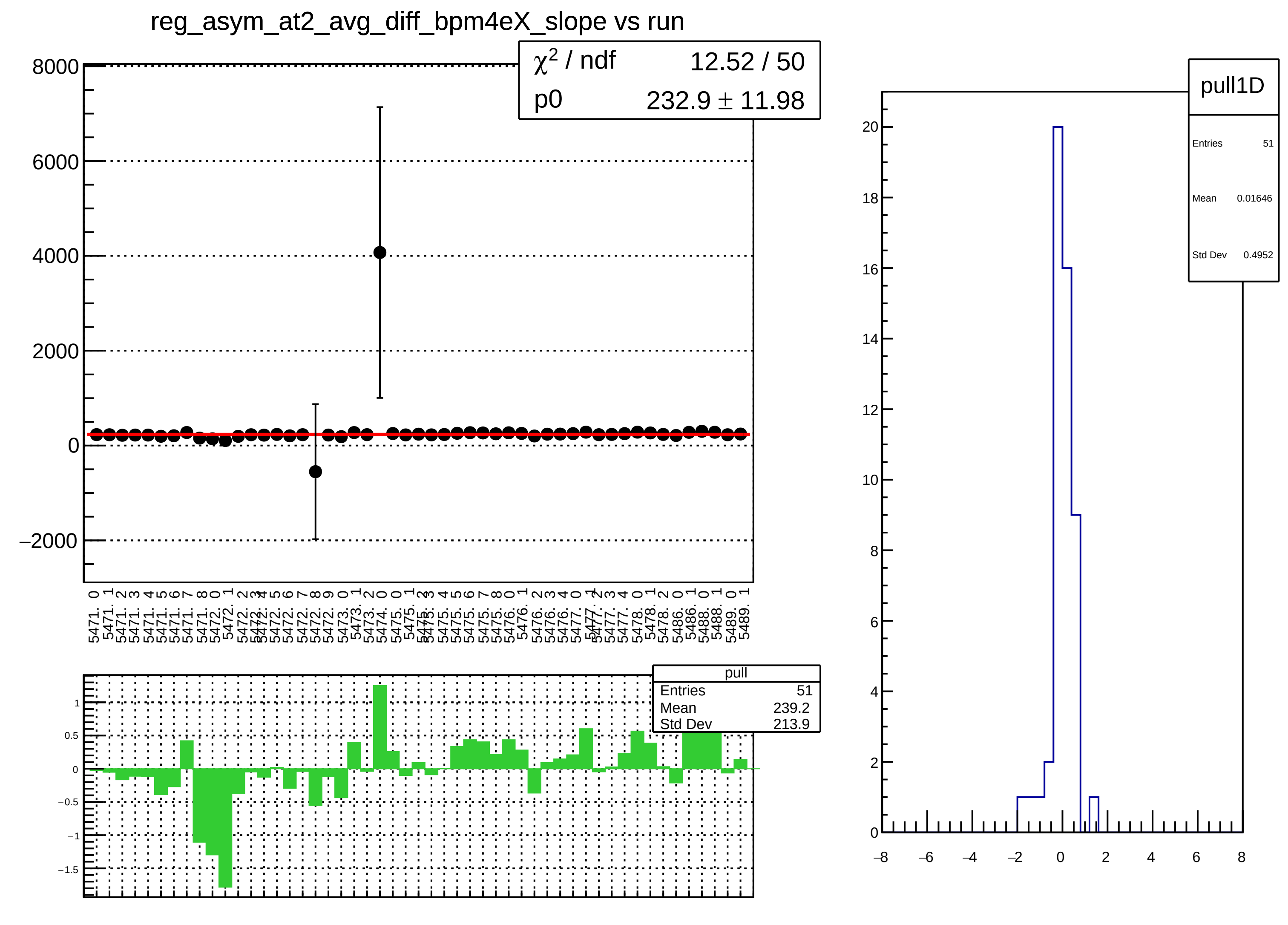
reg_asym_at1_dd_diff_bpm12X_slope vs run
χ^2 / ndf 6.32e+04 / 50
p0 76.77 ± 0.188
pull
Entries 51
Mean −30.8
Std Dev 60.39
pull1D
Entries 51
Mean 7.604
Std Dev 0



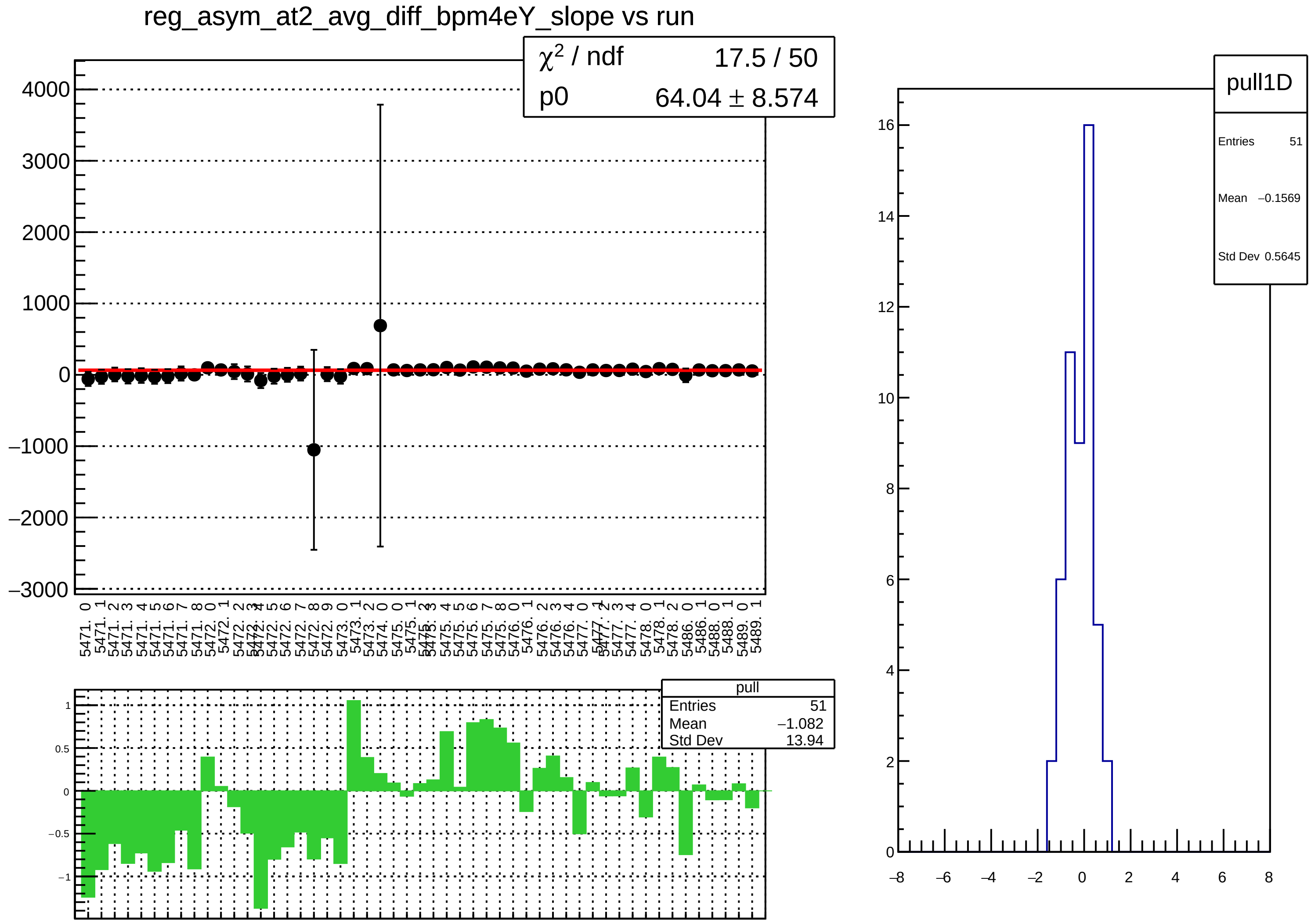
reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ2 / ndf 12.32 / 50
p0 −181.1 ± 12.38
pull
Entries 51
Mean 234
Std Dev 208.5
pull1D
Entries 51
Mean −0.01617
Std Dev 0.4913



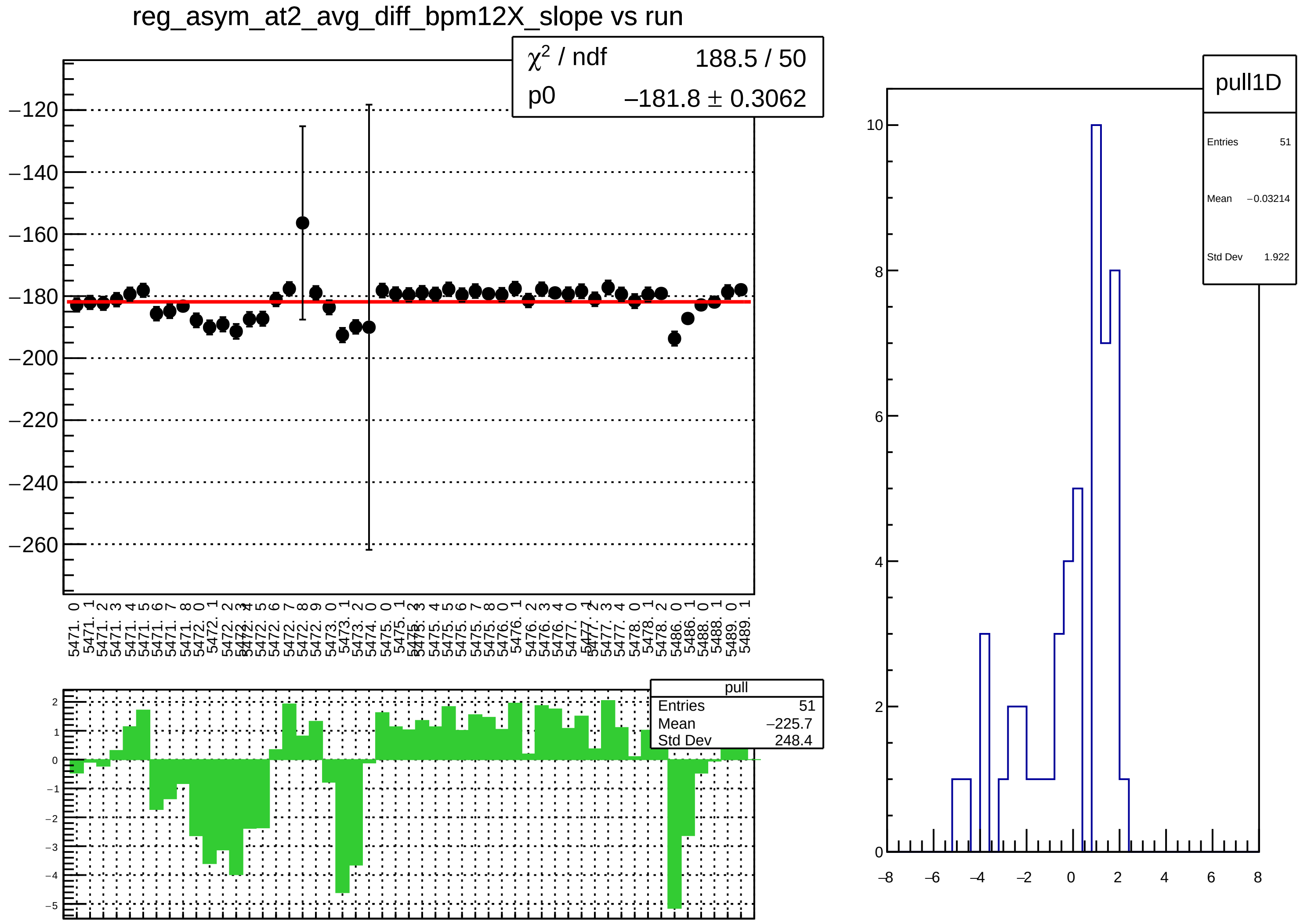
reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 19.5 / 50
p0 27.29 ± 6.788
pull
Entries 51
Mean −0.3548
Std Dev 12.94
pull1D
Entries 51
Mean 0.1797
Std Dev 0.5917



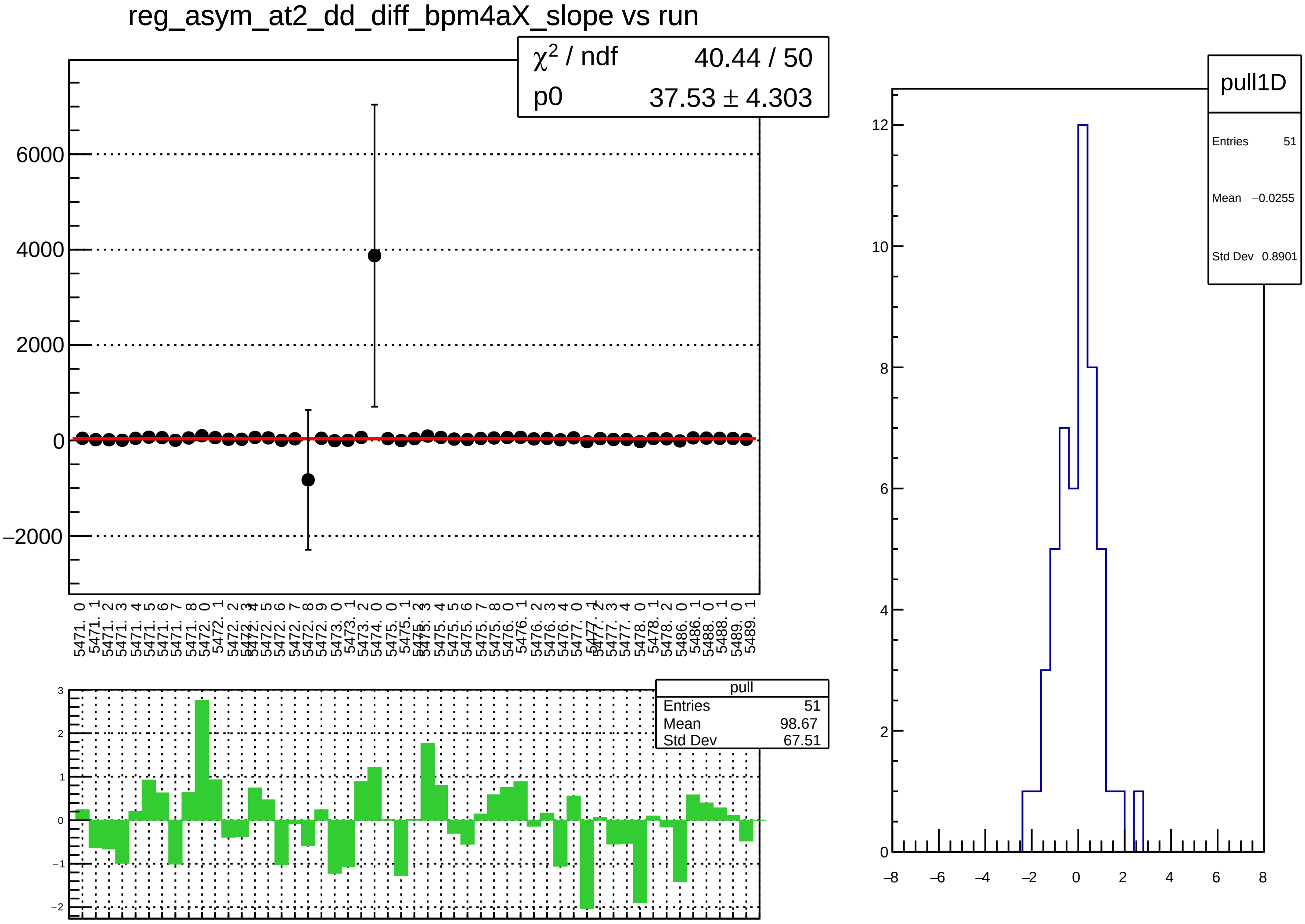
reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ2 / ndf 12.52 / 50
p0 232.9 ± 11.98
pull
Entries 51
Mean 239.2
Std Dev 213.9
pull1D
Entries 51
Mean 0.01646
Std Dev 0.4952



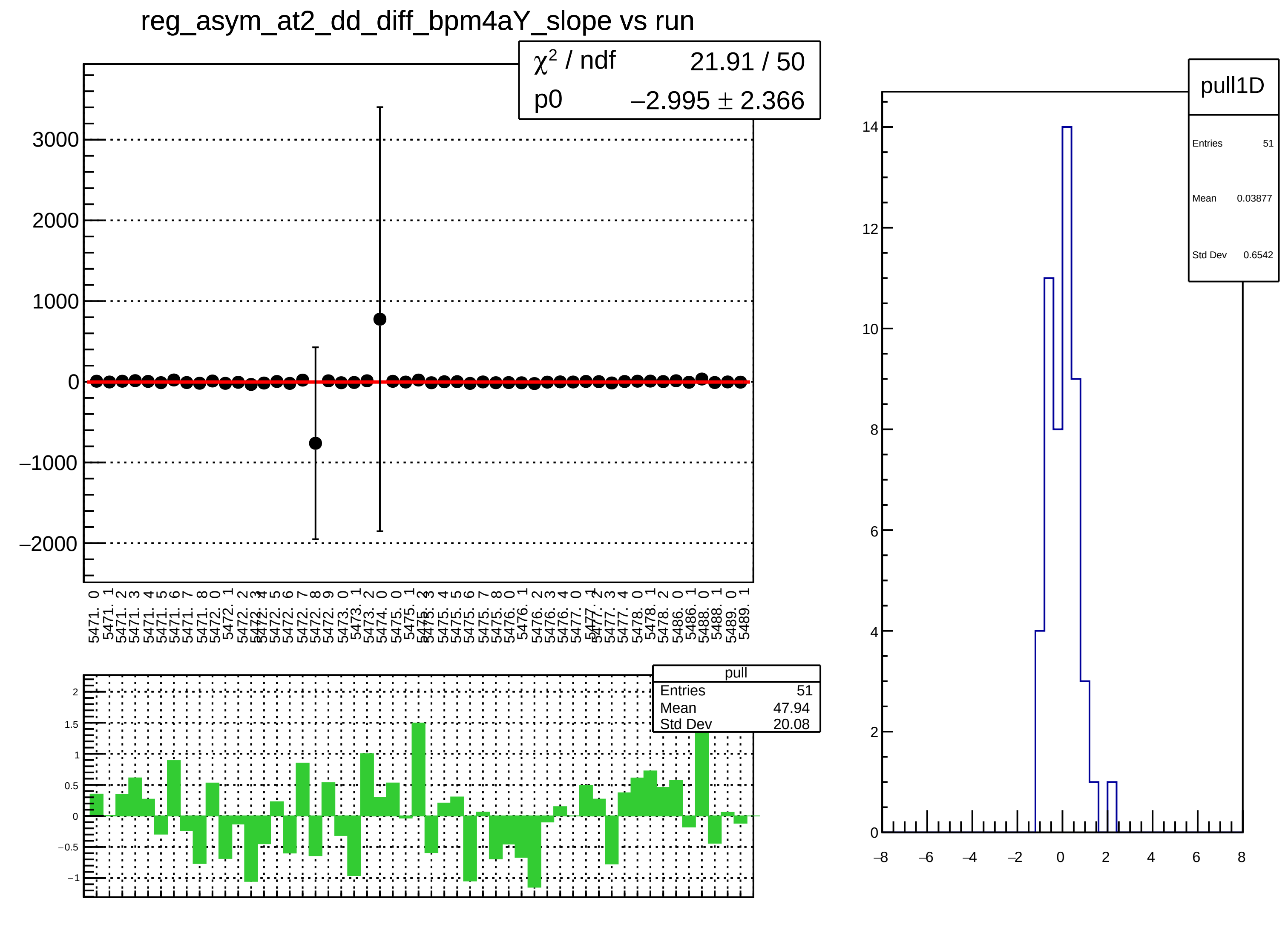
reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 17.5 / 50
p0 64.04 ± 8.574
pull
Entries 51
Mean −1.082
Std Dev 13.94
pull1D
Entries 51
Mean −0.1569
Std Dev 0.5645

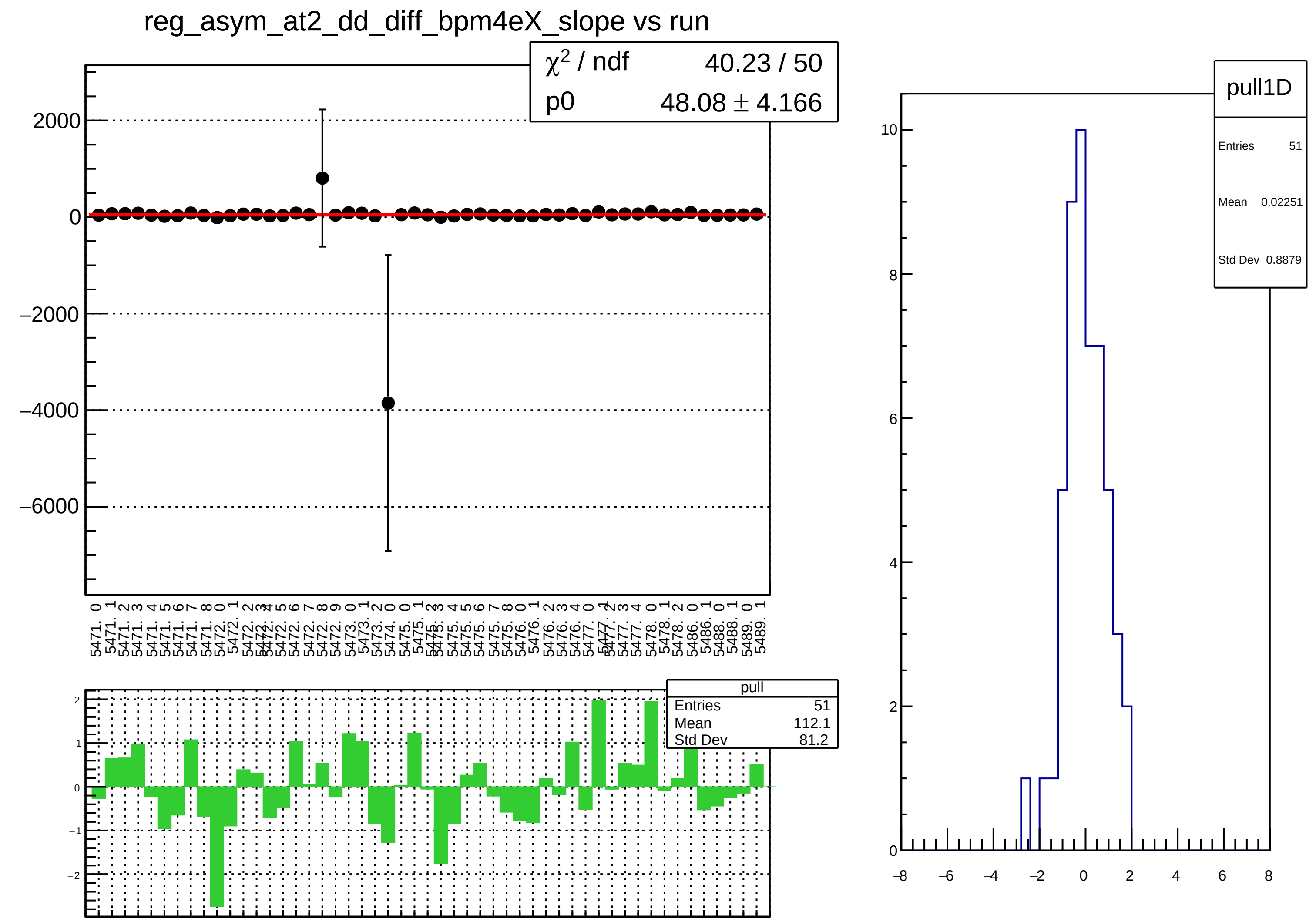


reg_asym_at2_avg_diff_bpm12X_slope vs run
χ2 / ndf 188.5 / 50
p0 −181.8 ± 0.3062
pull
Entries 51
Mean −225.7
Std Dev 248.4
pull1D
Entries 51
Mean −0.03214
Std Dev 1.922

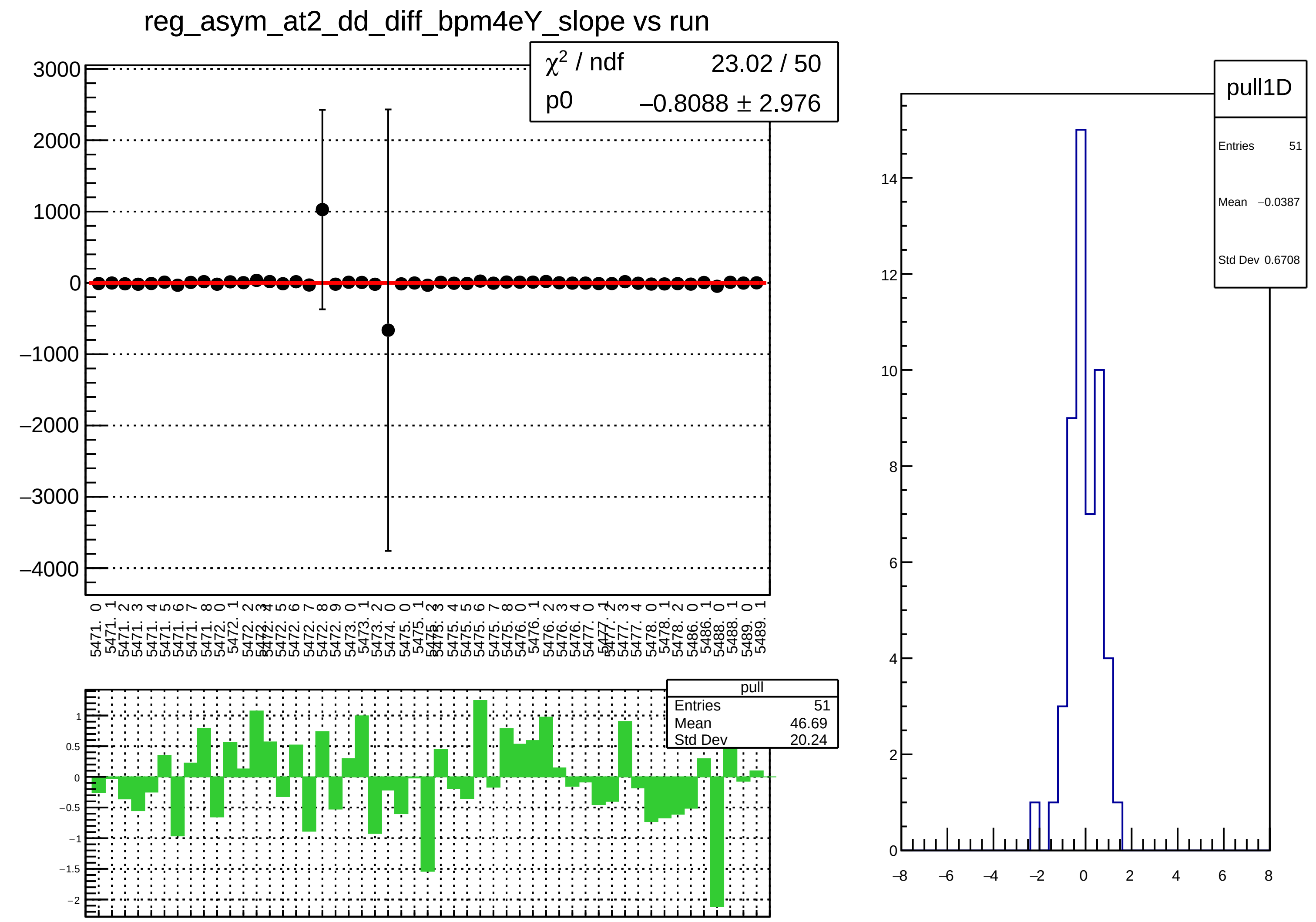


reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 40.44 / 50
p0 37.53 ± 4.303
pull
Entries 51
Mean 98.67
Std Dev 67.51
pull1D
Entries 51
Mean −0.0255
Std Dev 0.8901

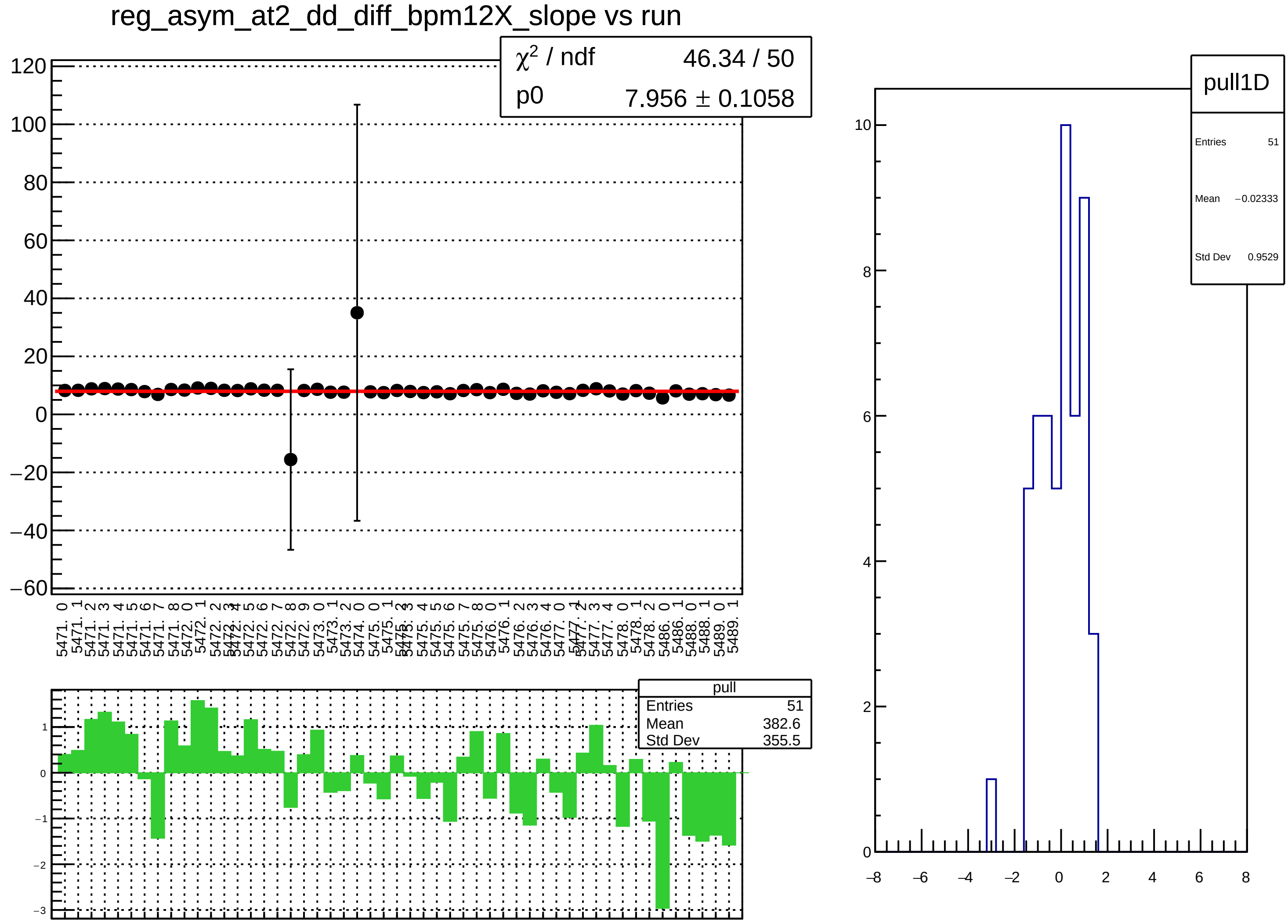

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 21.91 / 50
p0 −2.995 ± 2.366
pull
Entries 51
Mean 47.94
Std Dev 20.08
pull1D
Entries 51
Mean 0.03877
Std Dev 0.6542

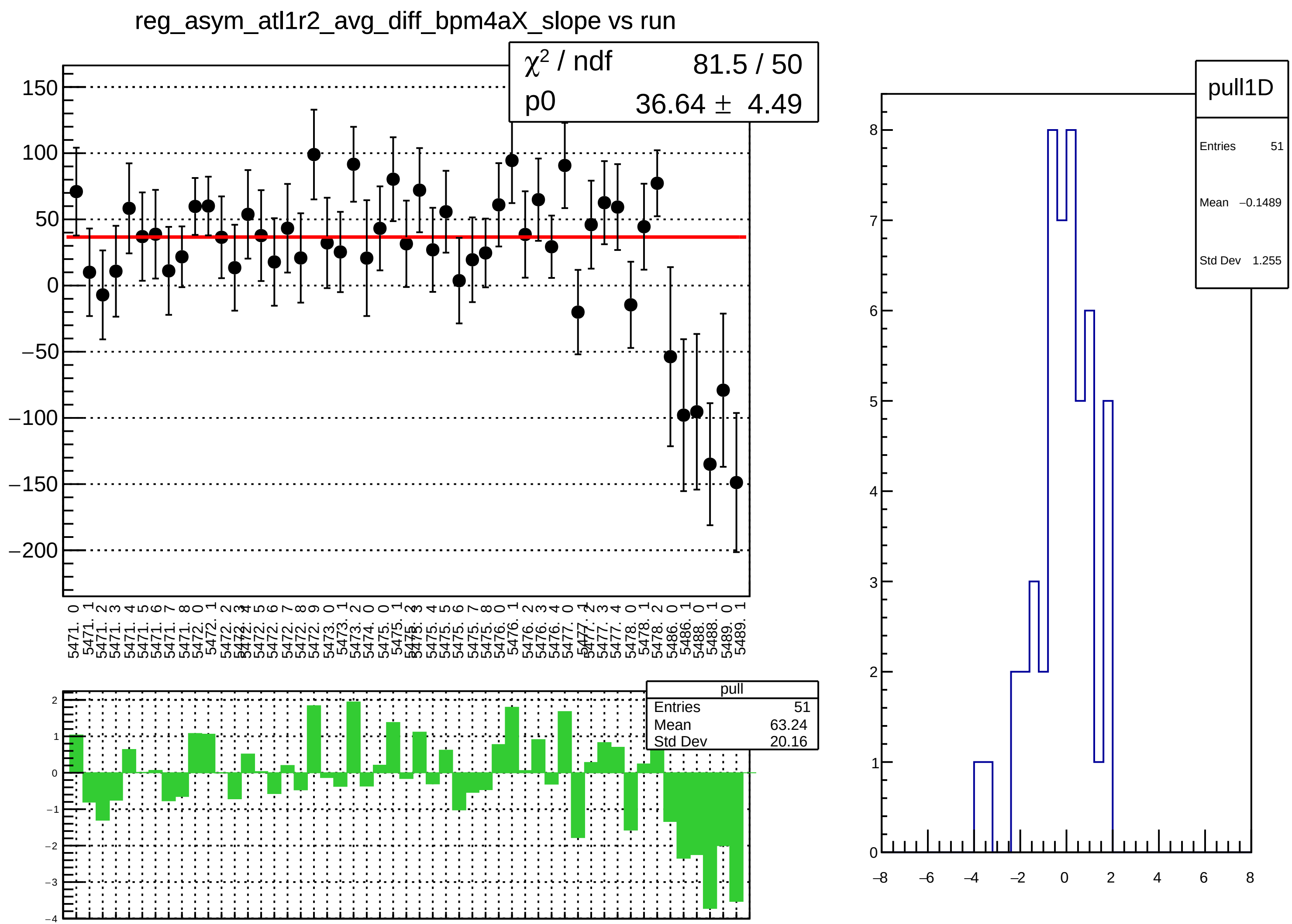


reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ2 / ndf 40.23 / 50
p0 48.08 ± 4.166
pull
Entries 51
Mean 112.1
Std Dev 81.2
pull1D
Entries 51
Mean 0.02251
Std Dev 0.8879

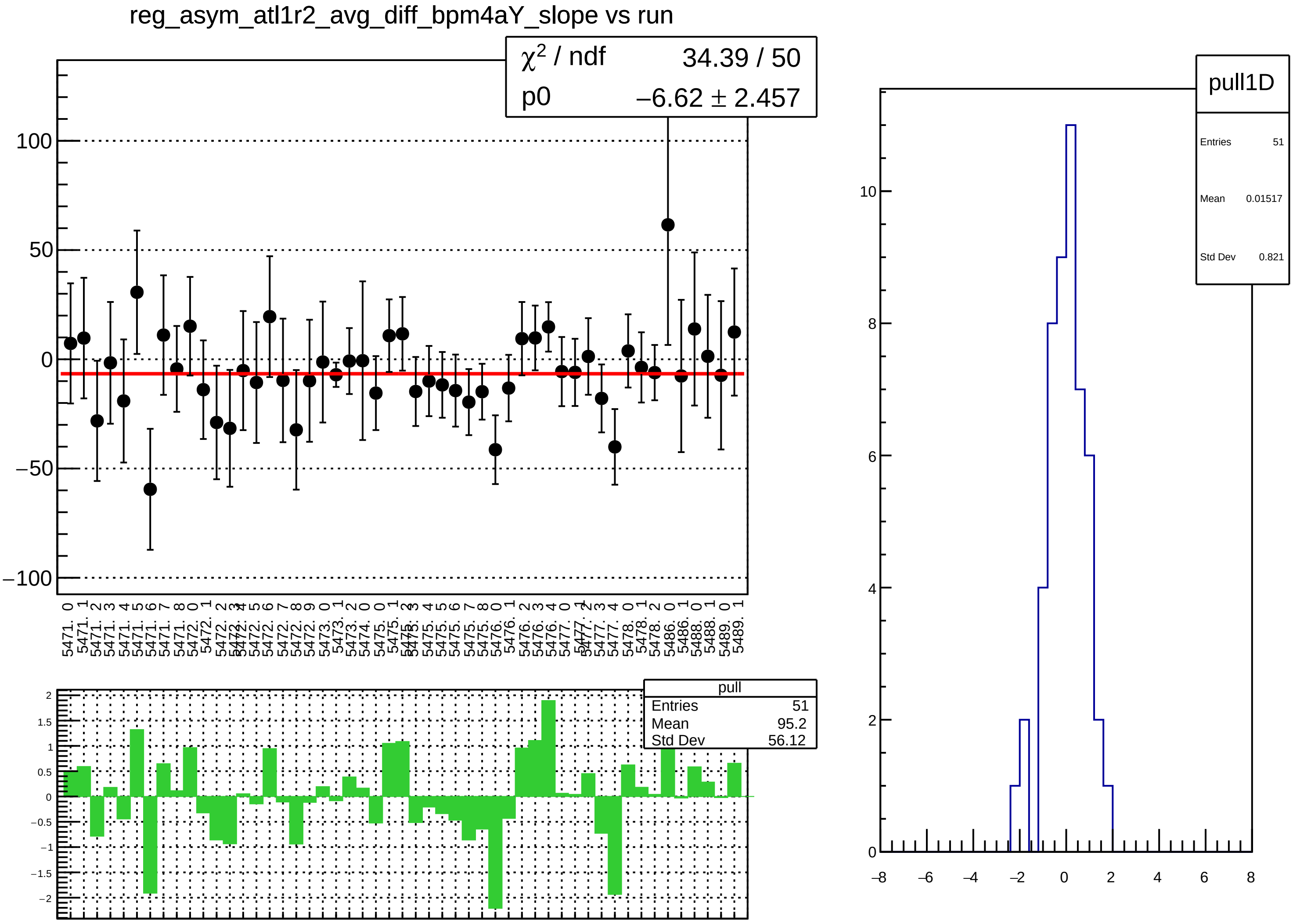


reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 23.02 / 50
p0 −0.8088 ± 2.976
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 51
Mean 46.69
Std Dev 20.24
pull1D
Entries 51
Mean −0.0387
Std Dev 0.6708

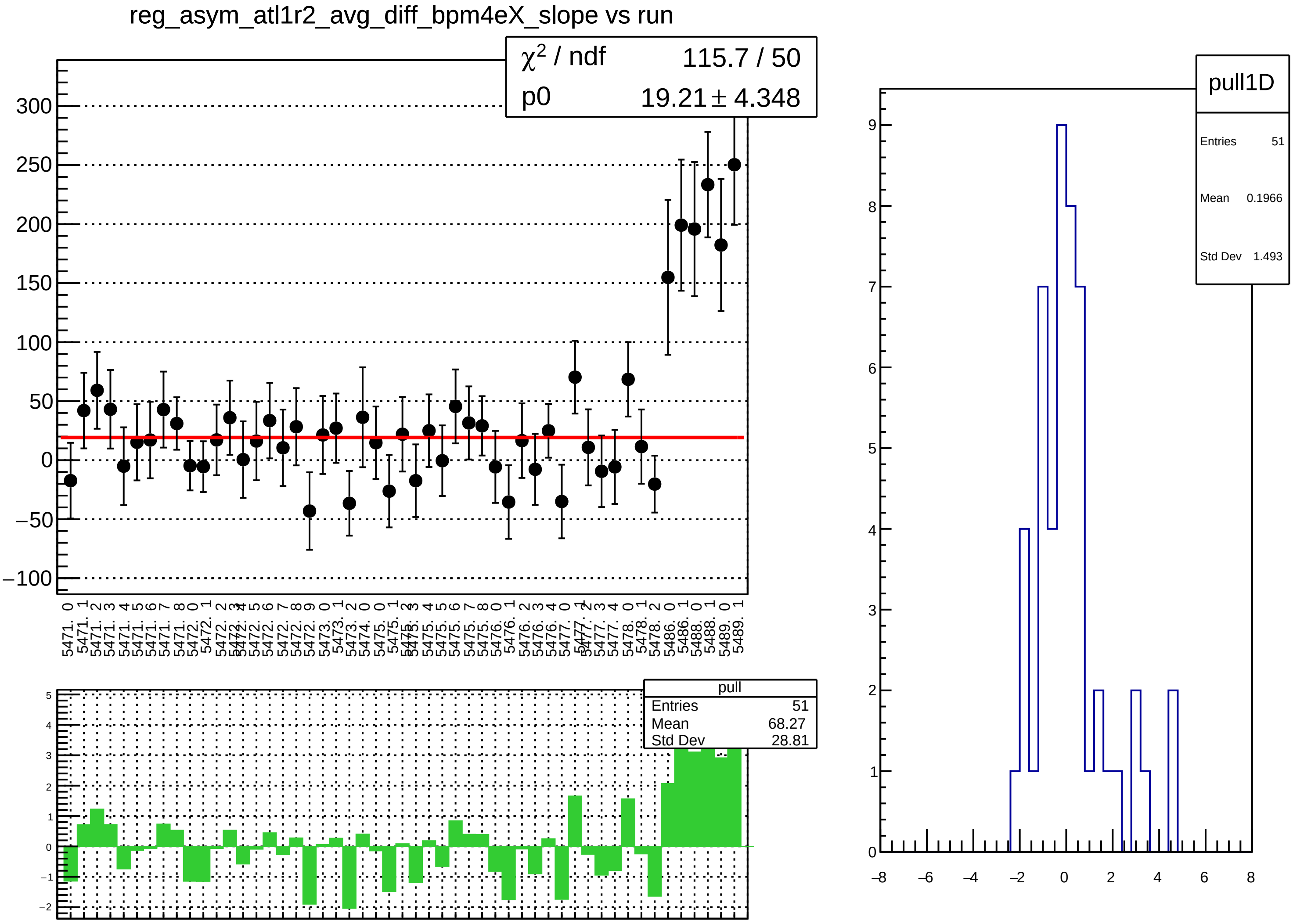

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 46.34 / 50
p0 7.956 ± 0.1058
120
100
80
60
40
20
0
−20
−40
−60
pull
Entries 51
Mean 382.6
Std Dev 355.5
1
0
−1
−2
−3
pull1D
Entries 51
Mean −0.02333
Std Dev 0.9529
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



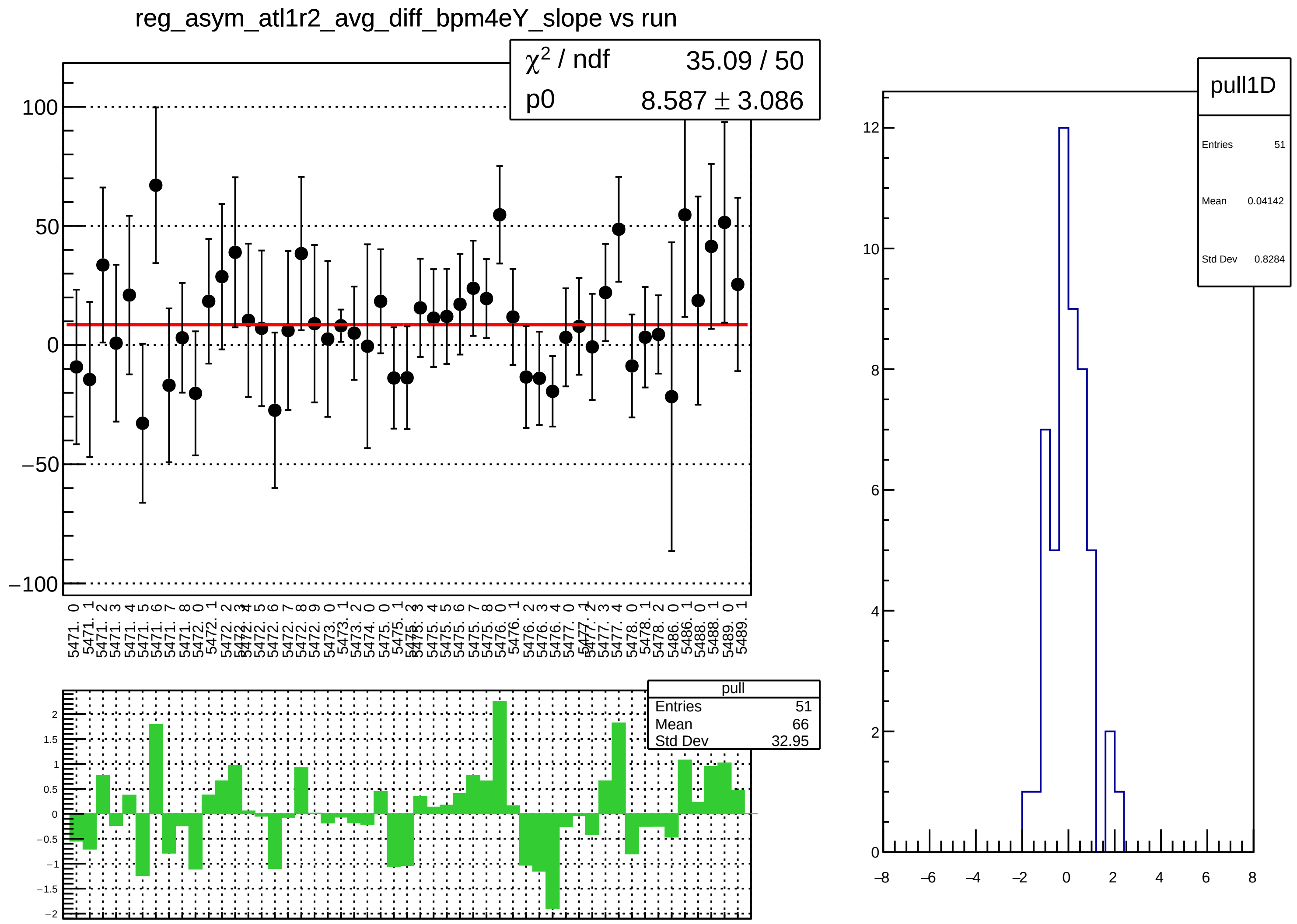
reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 81.5 / 50
p0 36.64 ± 4.49
pull
Entries 51
Mean 63.24
Std Dev 20.16
pull1D
Entries 51
Mean −0.1489
Std Dev 1.255



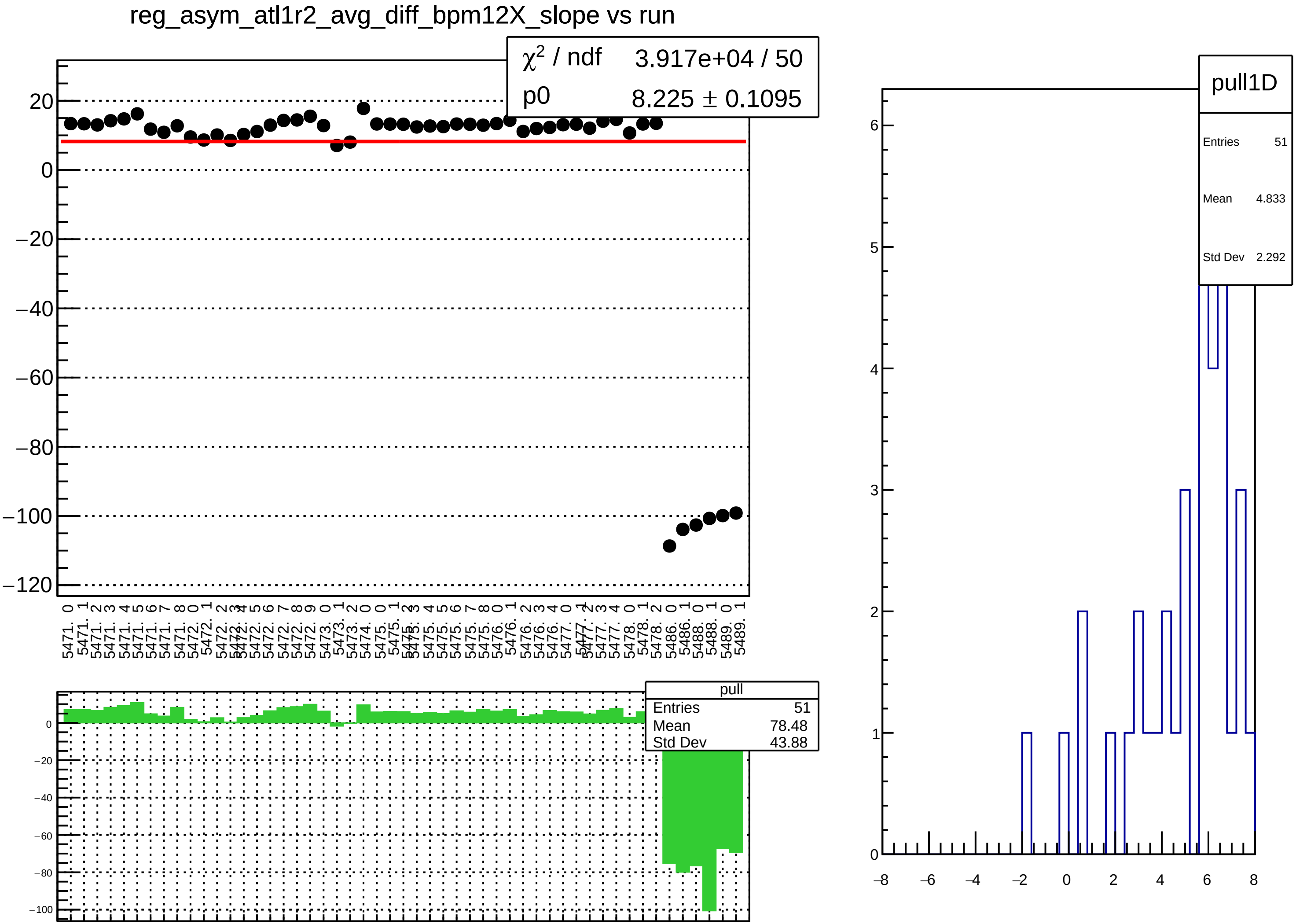
reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 34.39 / 50
p0 −6.62 ± 2.457
pull
Entries 51
Mean 95.2
Std Dev 56.12
pull1D
Entries 51
Mean 0.01517
Std Dev 0.821



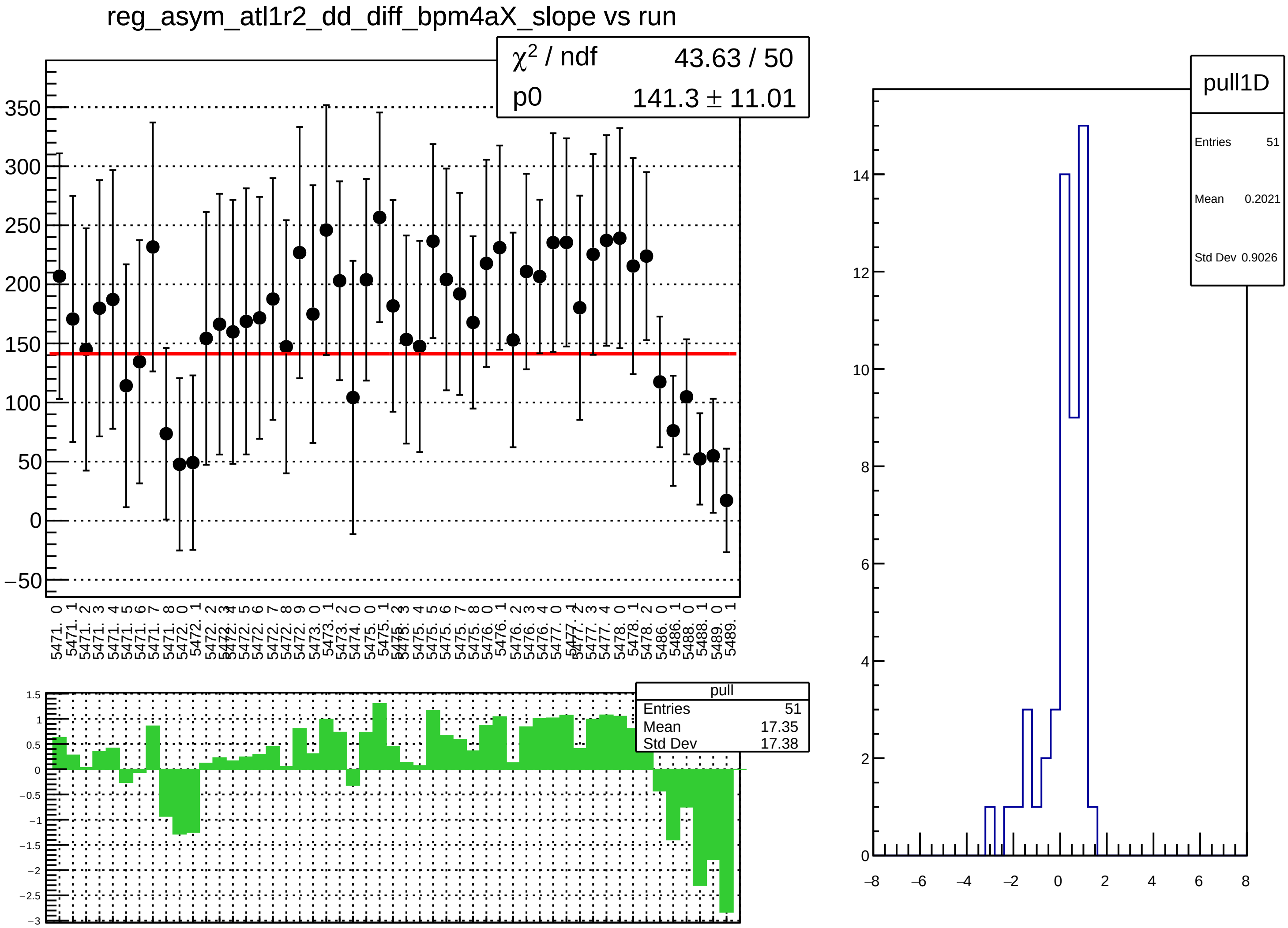
reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ2 / ndf 115.7 / 50
p0 19.21 ± 4.348
pull
Entries 51
Mean 68.27
Std Dev 28.81
pull1D
Entries 51
Mean 0.1966
Std Dev 1.493



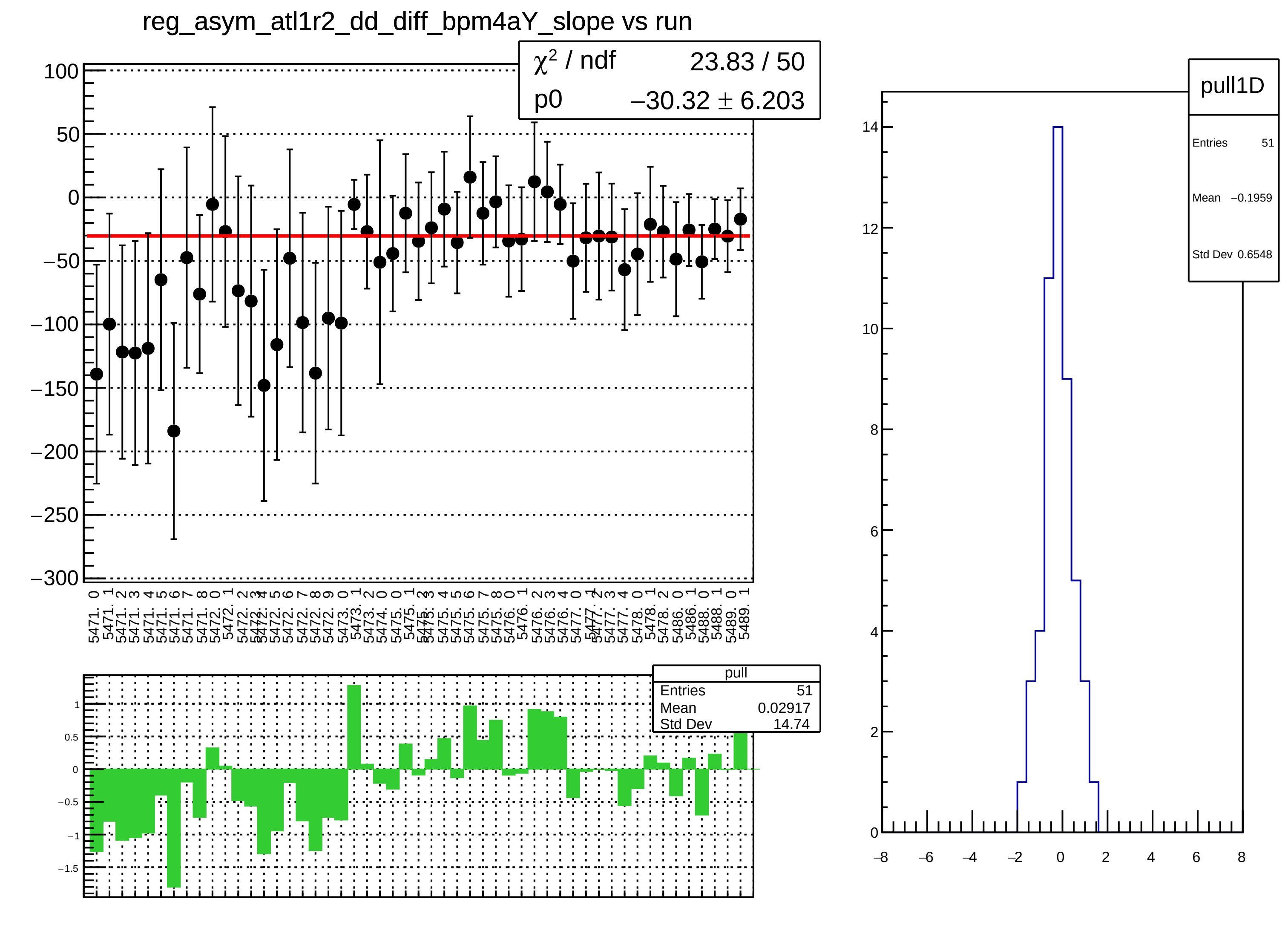
reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 35.09 / 50
p0 8.587 ± 3.086
pull
Entries 51
Mean 66
Std Dev 32.95
pull1D
Entries 51
Mean 0.04142
Std Dev 0.8284



reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.917e+04 / 50
p0 8.225 ± 0.1095
pull
Entries 51
Mean 78.48
Std Dev 43.88
pull1D
Entries 51
Mean 4.833
Std Dev 2.292

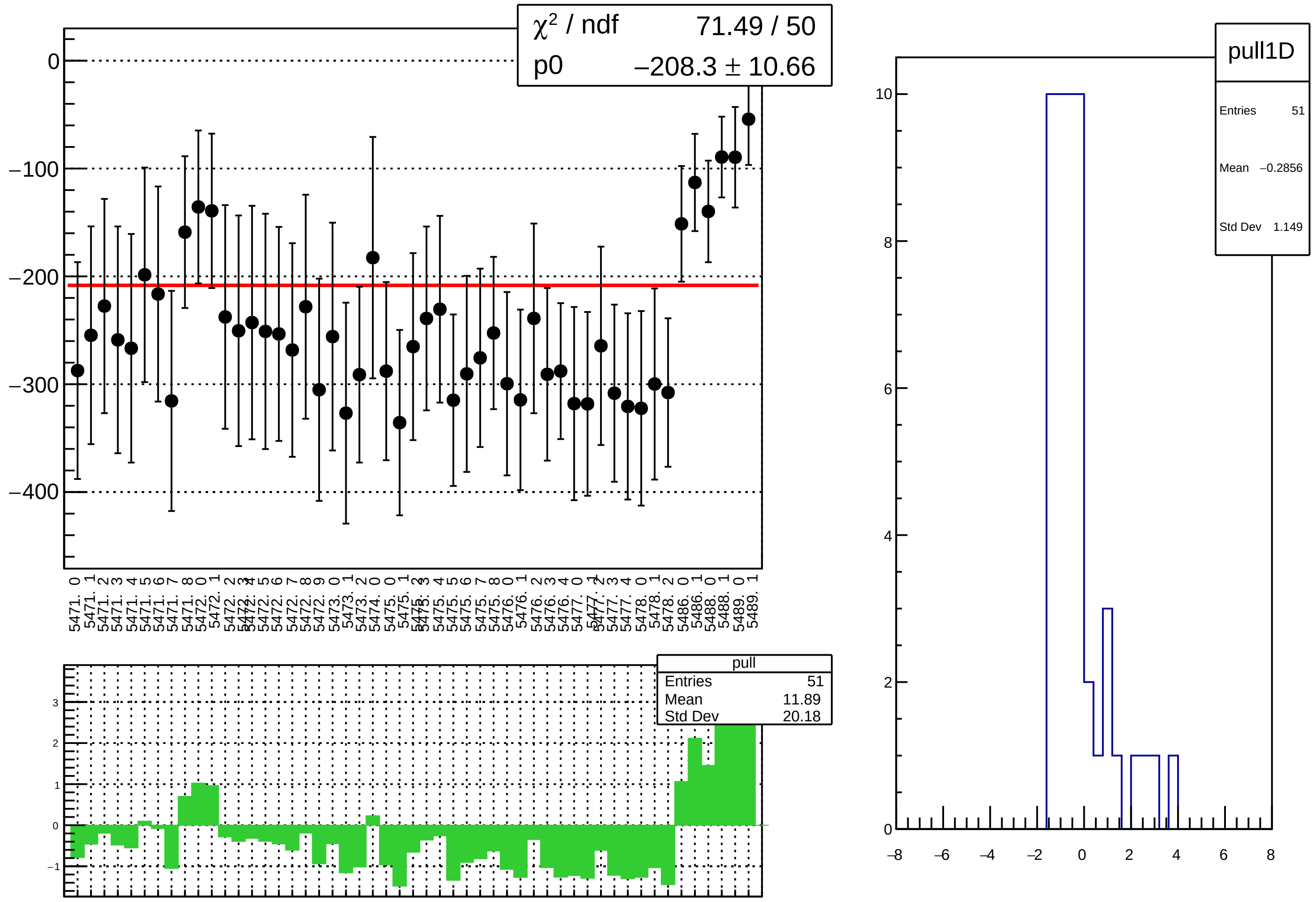


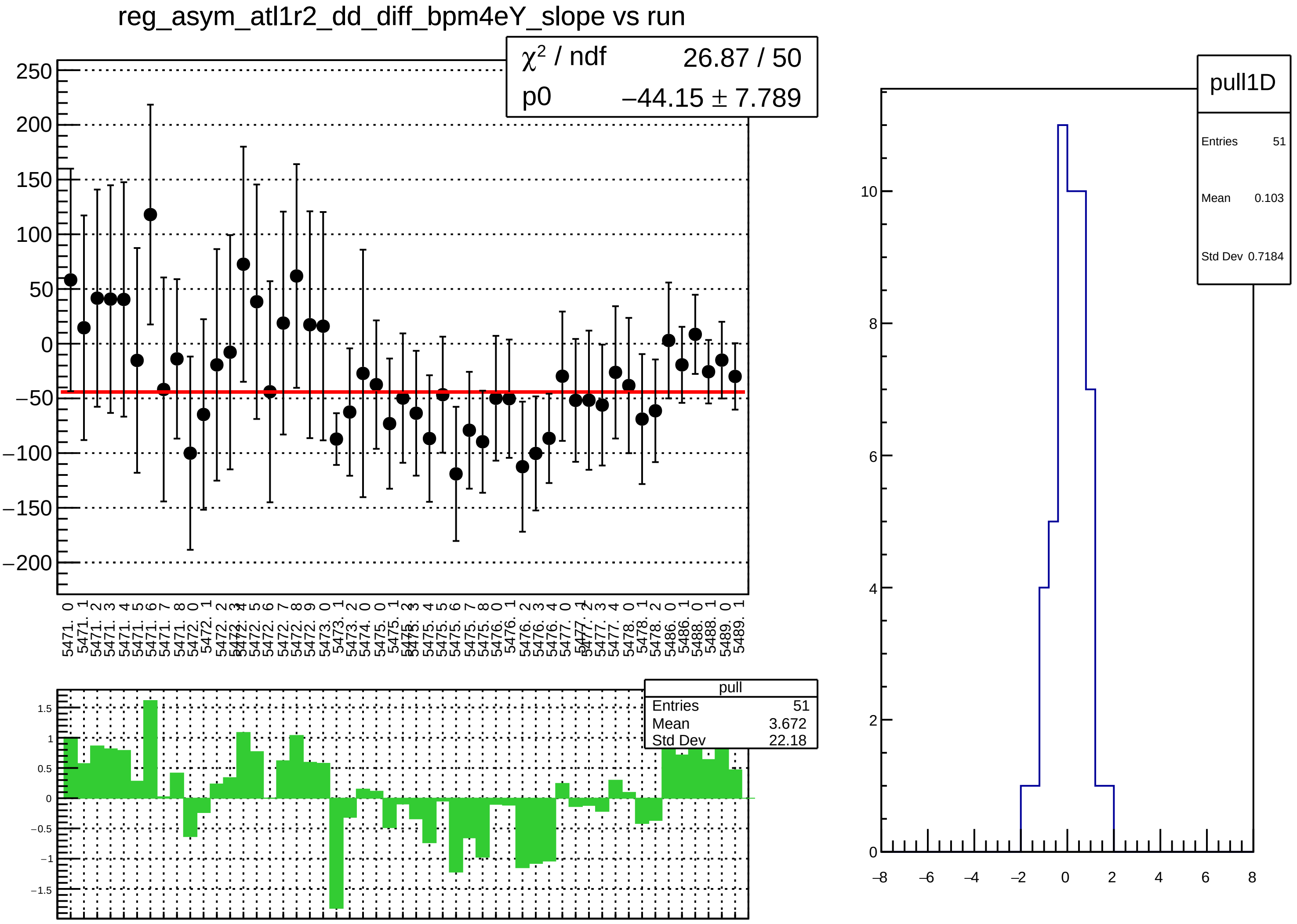
reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 43.63 / 50
p0 141.3 ± 11.01
pull
Entries 51
Mean 17.35
Std Dev 17.38
pull1D
Entries 51
Mean 0.2021
Std Dev 0.9026



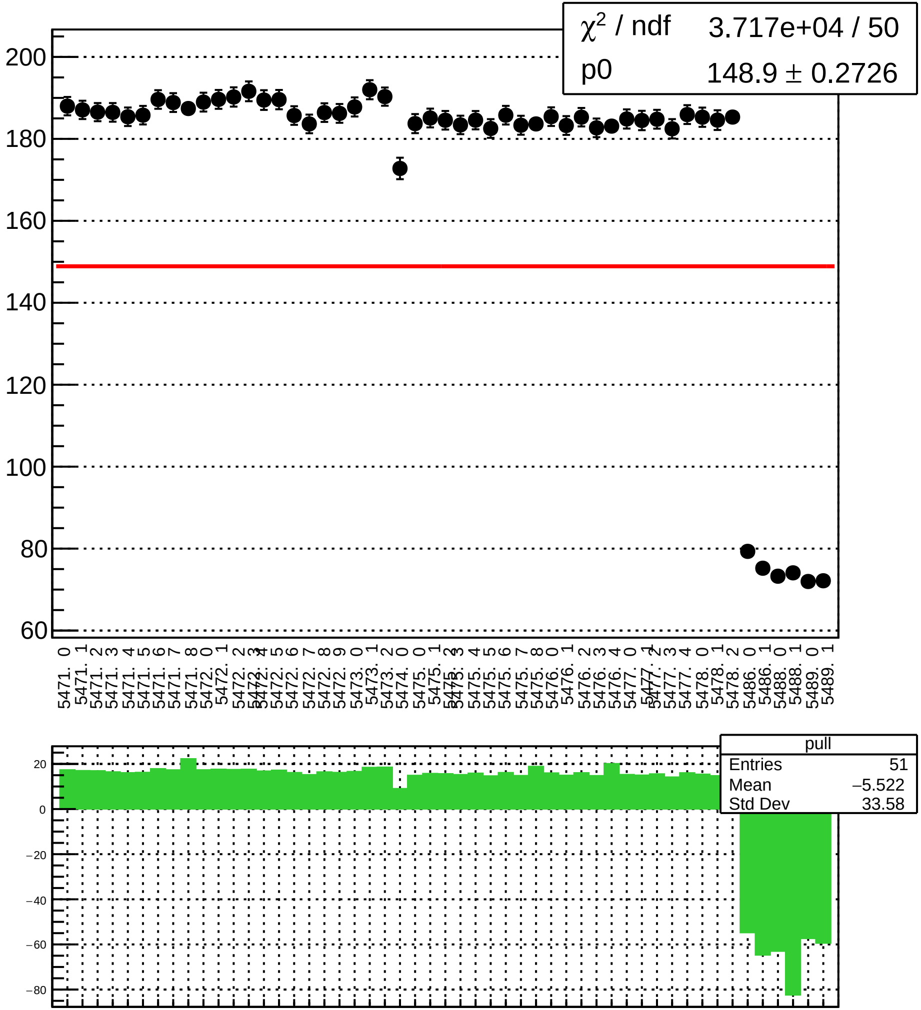
reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 23.83 / 50
p0 −30.32 ± 6.203
pull
Entries 51
Mean 0.02917
Std Dev 14.74
pull1D
Entries 51
Mean −0.1959
Std Dev 0.6548

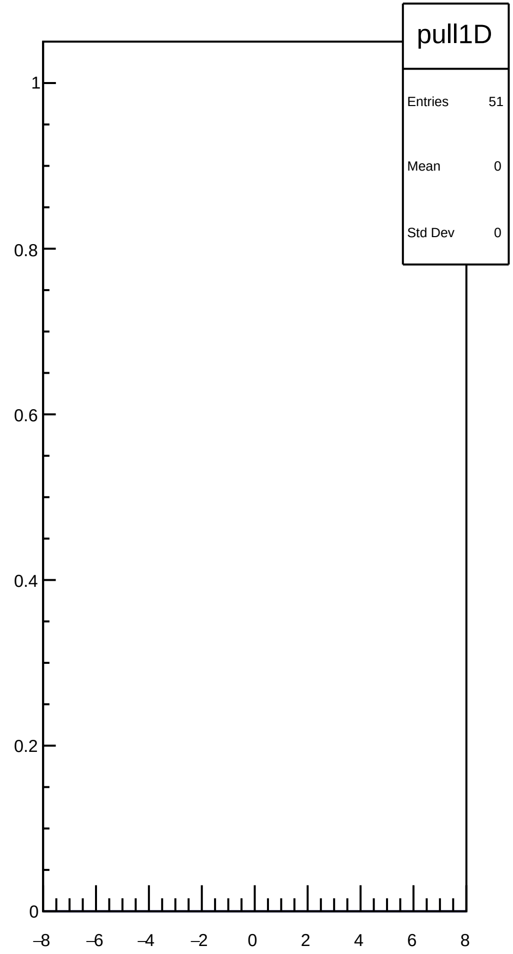
reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run

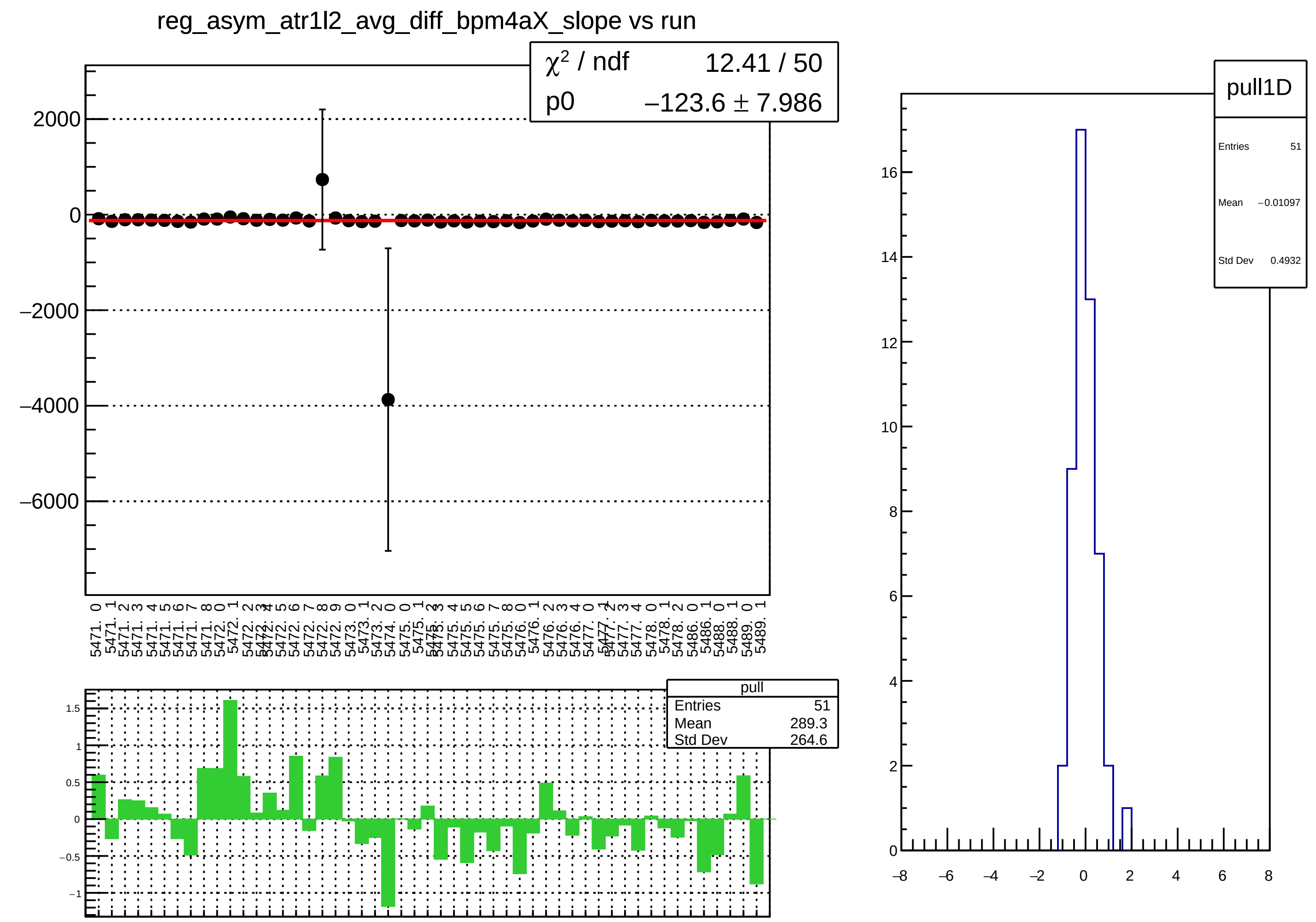



reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ2 / ndf 26.87 / 50
p0 −44.15 ± 7.789
pull
Entries 51
Mean 3.672
Std Dev 22.18
pull1D
Entries 51
Mean 0.103
Std Dev 0.7184

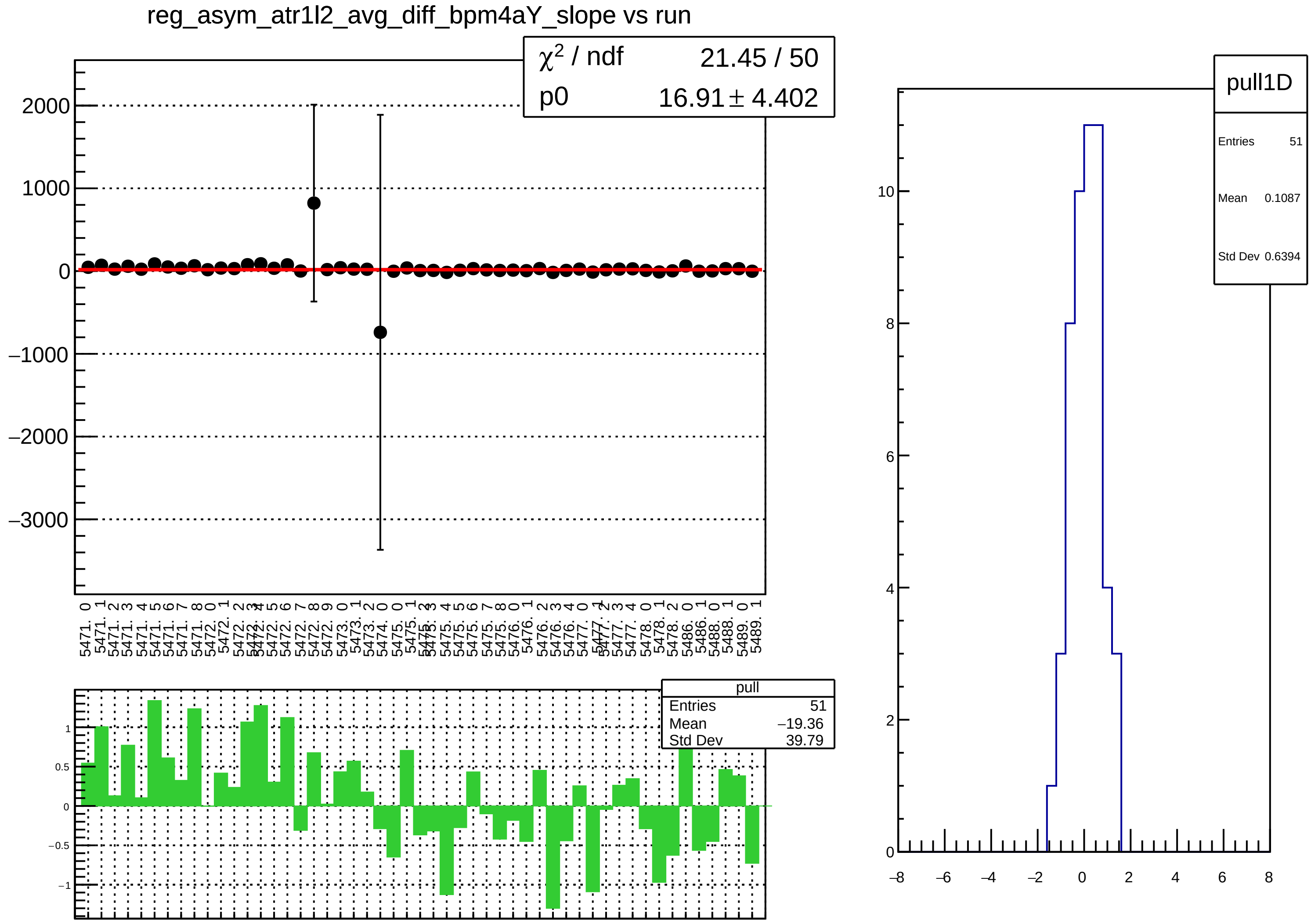
reg_asym_atl1r2_dd_diff_bpm12X_slope vs run



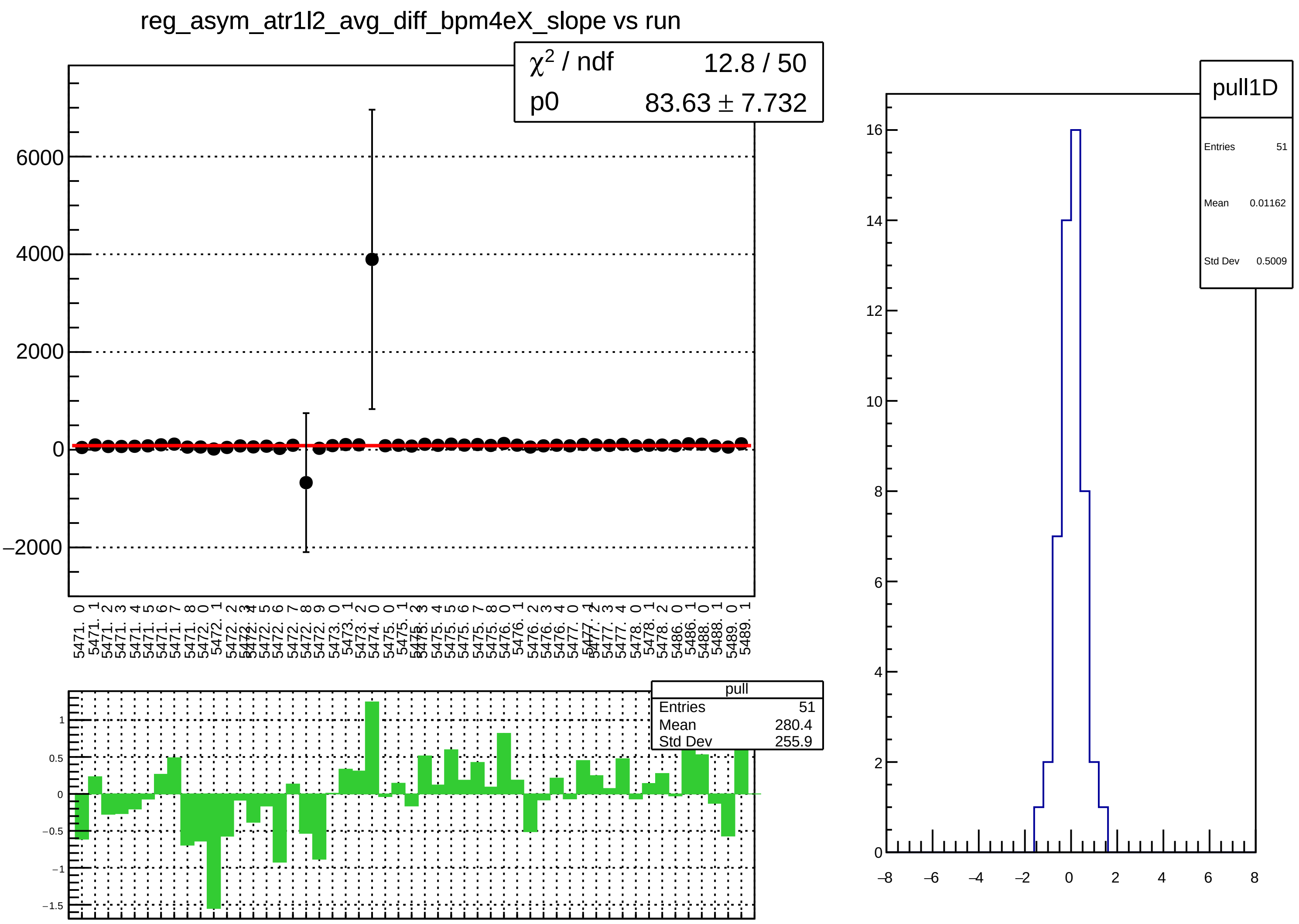




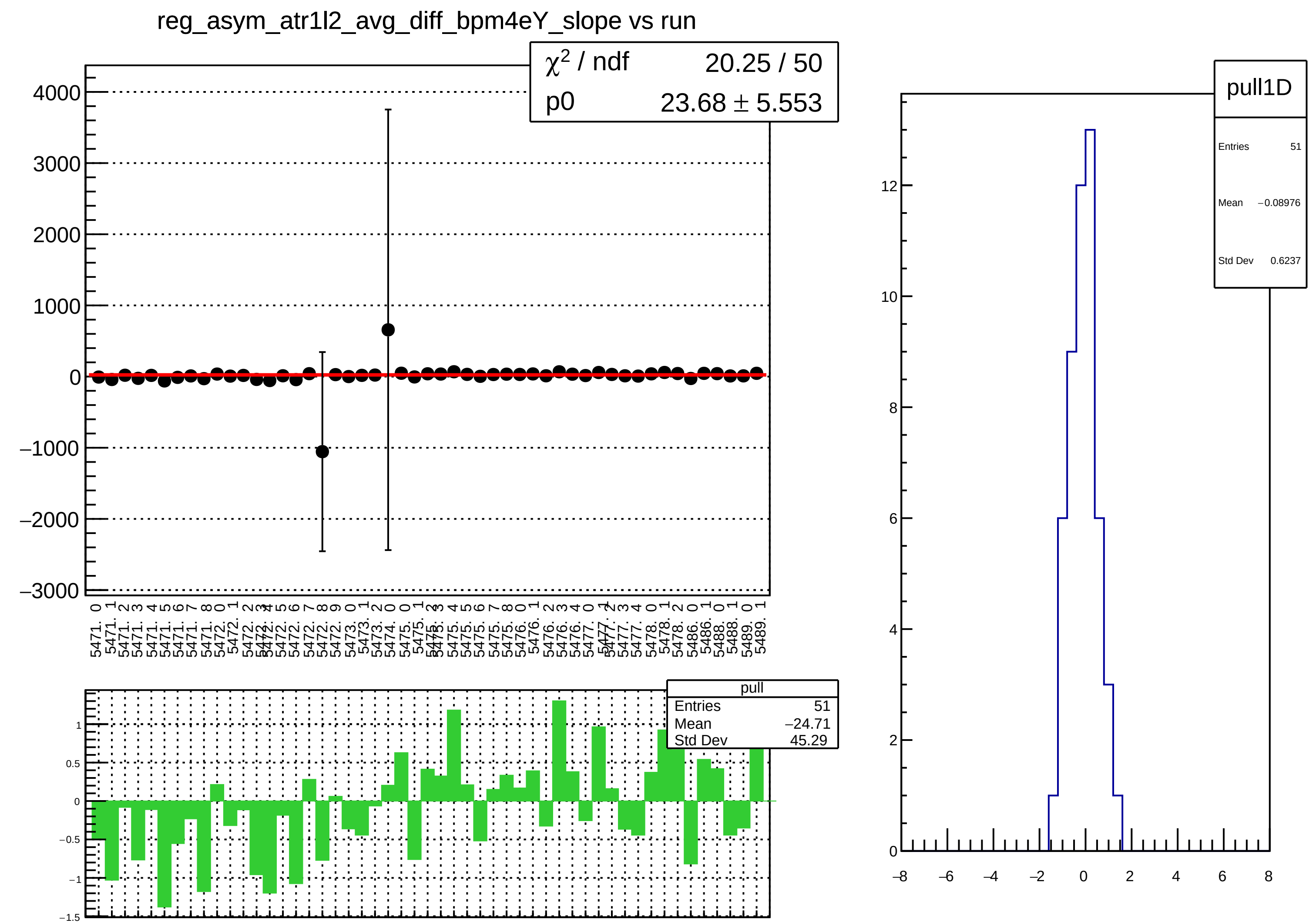
reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 12.41 / 50
p0 −123.6 ± 7.986
pull
Entries 51
Mean 289.3
Std Dev 264.6
pull1D
Entries 51
Mean −0.01097
Std Dev 0.4932

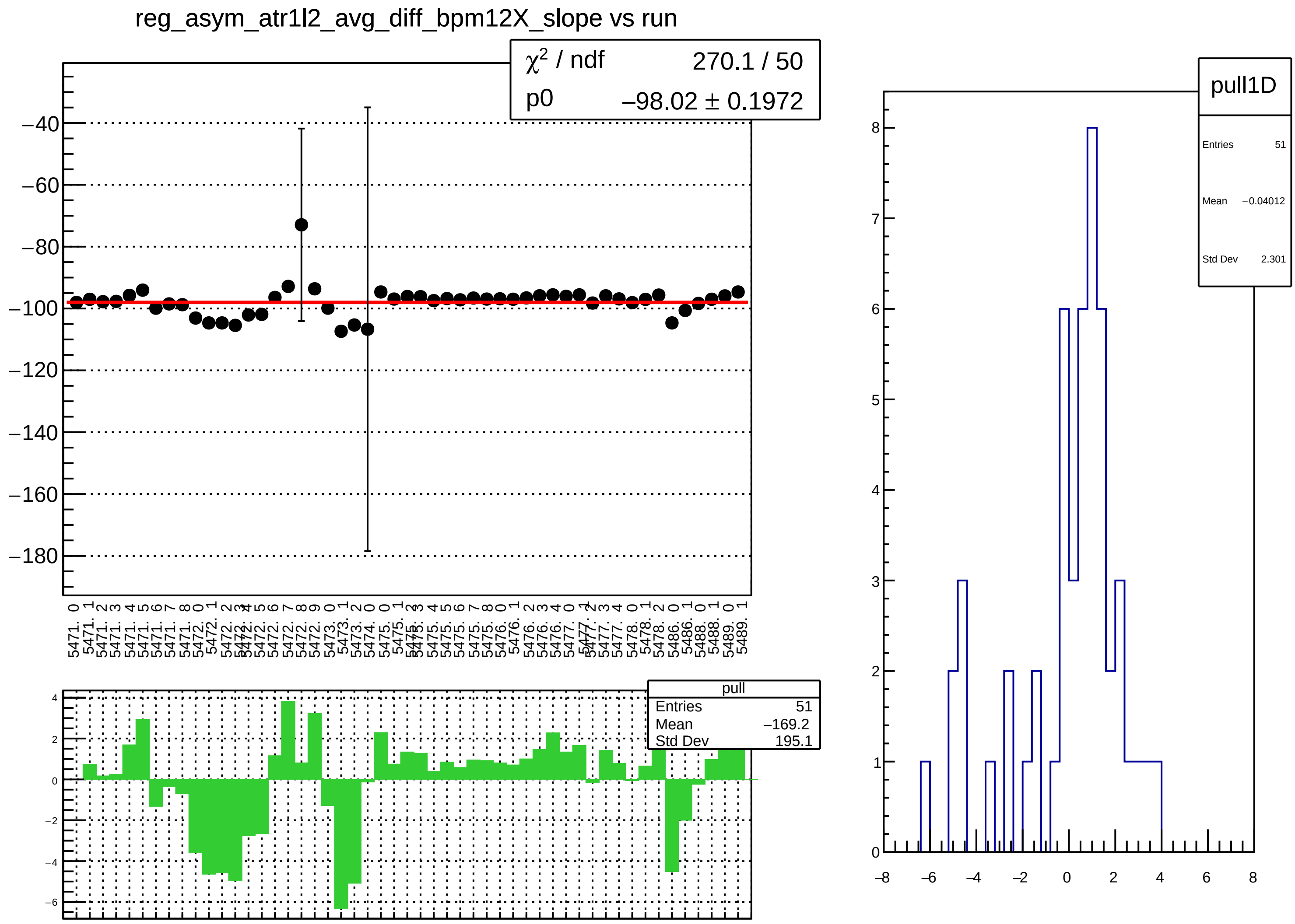


reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ2 / ndf 21.45 / 50
p0 16.91 ± 4.402
2000
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean −19.36
Std Dev 39.79
1
0.5
0
−0.5
−1
pull1D
Entries 51
Mean 0.1087
Std Dev 0.6394
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

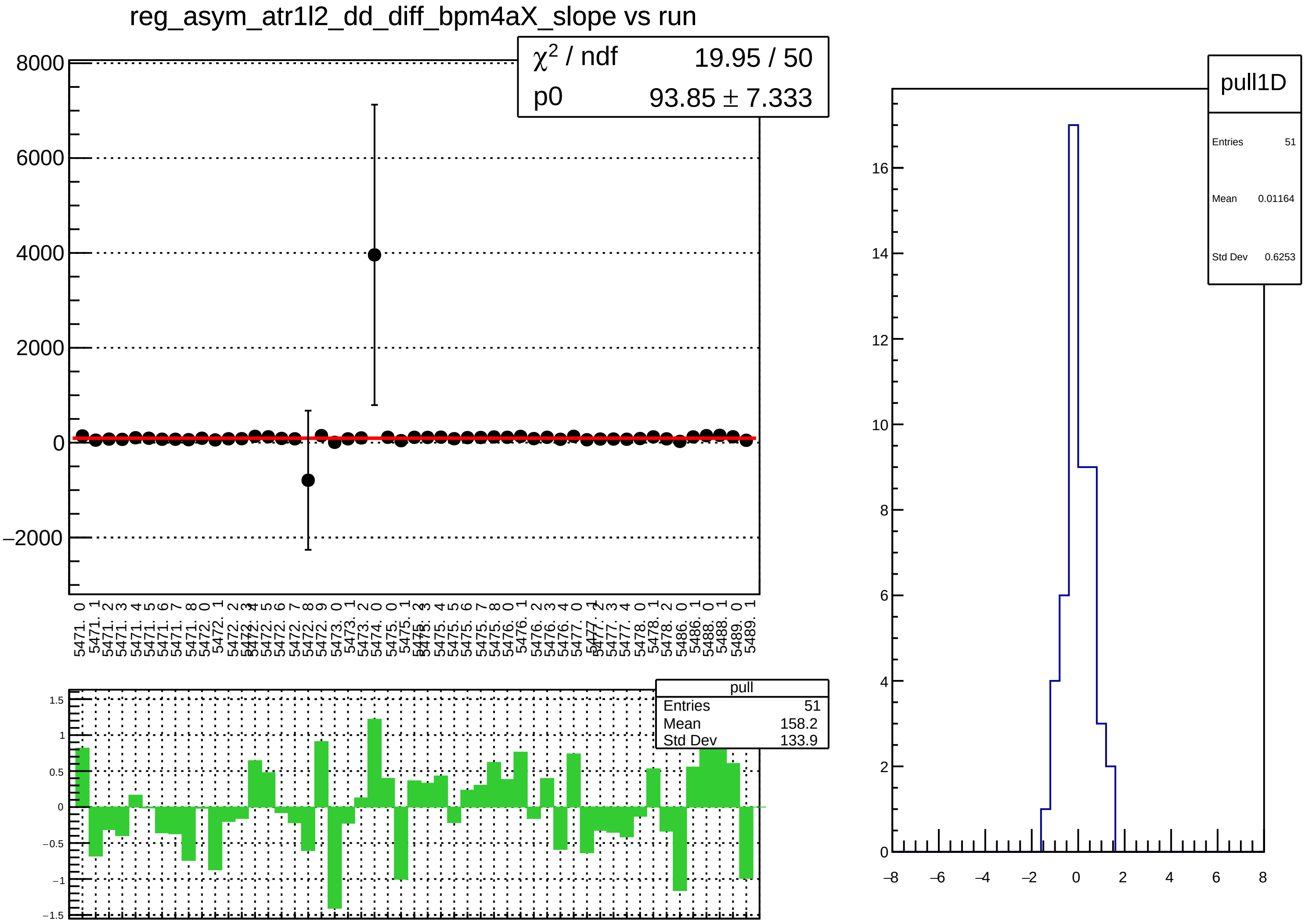


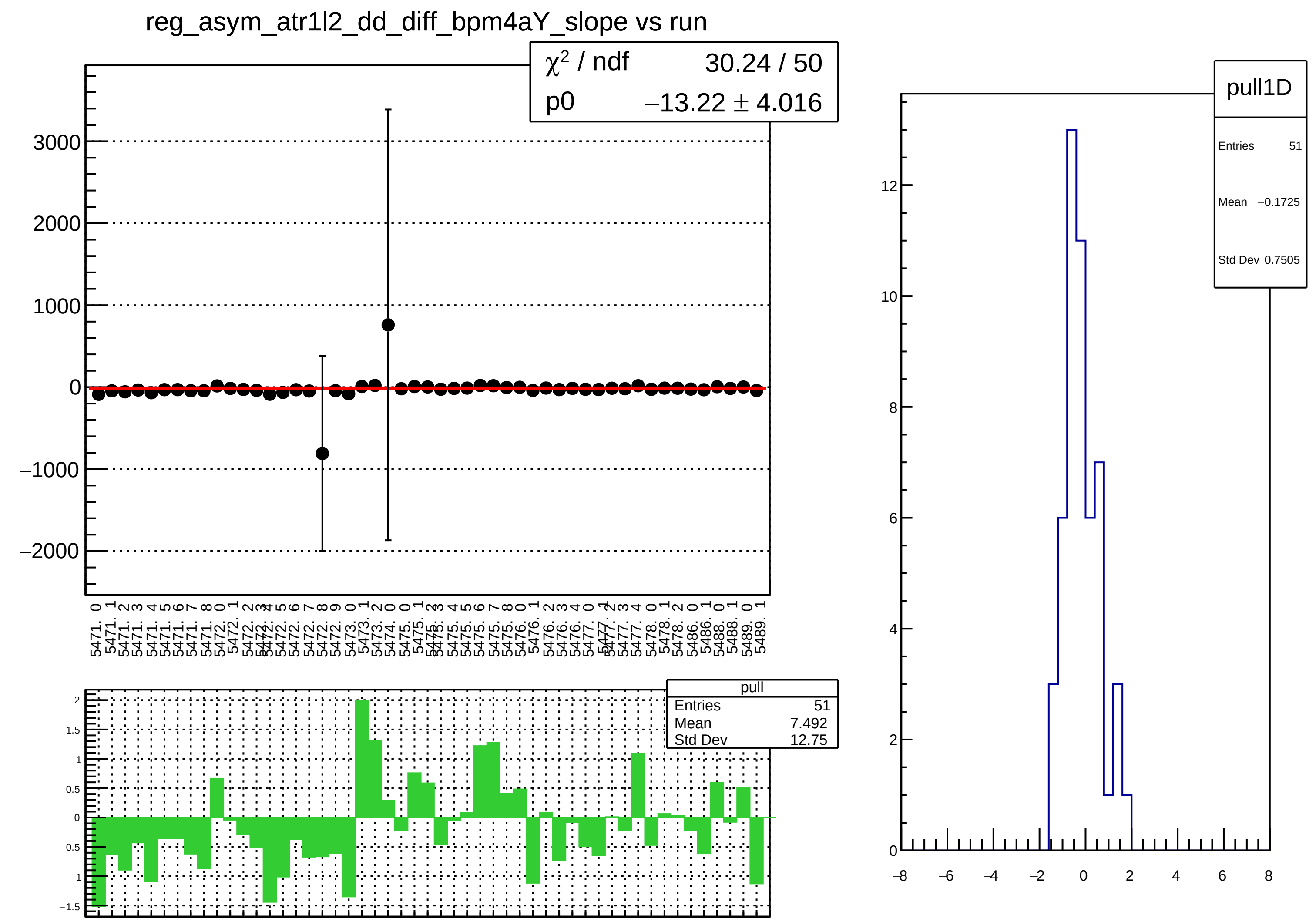
reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ2 / ndf 12.8 / 50
p0 83.63 ± 7.732
pull
Entries 51
Mean 280.4
Std Dev 255.9
pull1D
Entries 51
Mean 0.01162
Std Dev 0.5009


reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ2 / ndf 20.25 / 50
p0 23.68 ± 5.553
pull
Entries 51
Mean −24.71
Std Dev 45.29
pull1D
Entries 51
Mean −0.08976
Std Dev 0.6237

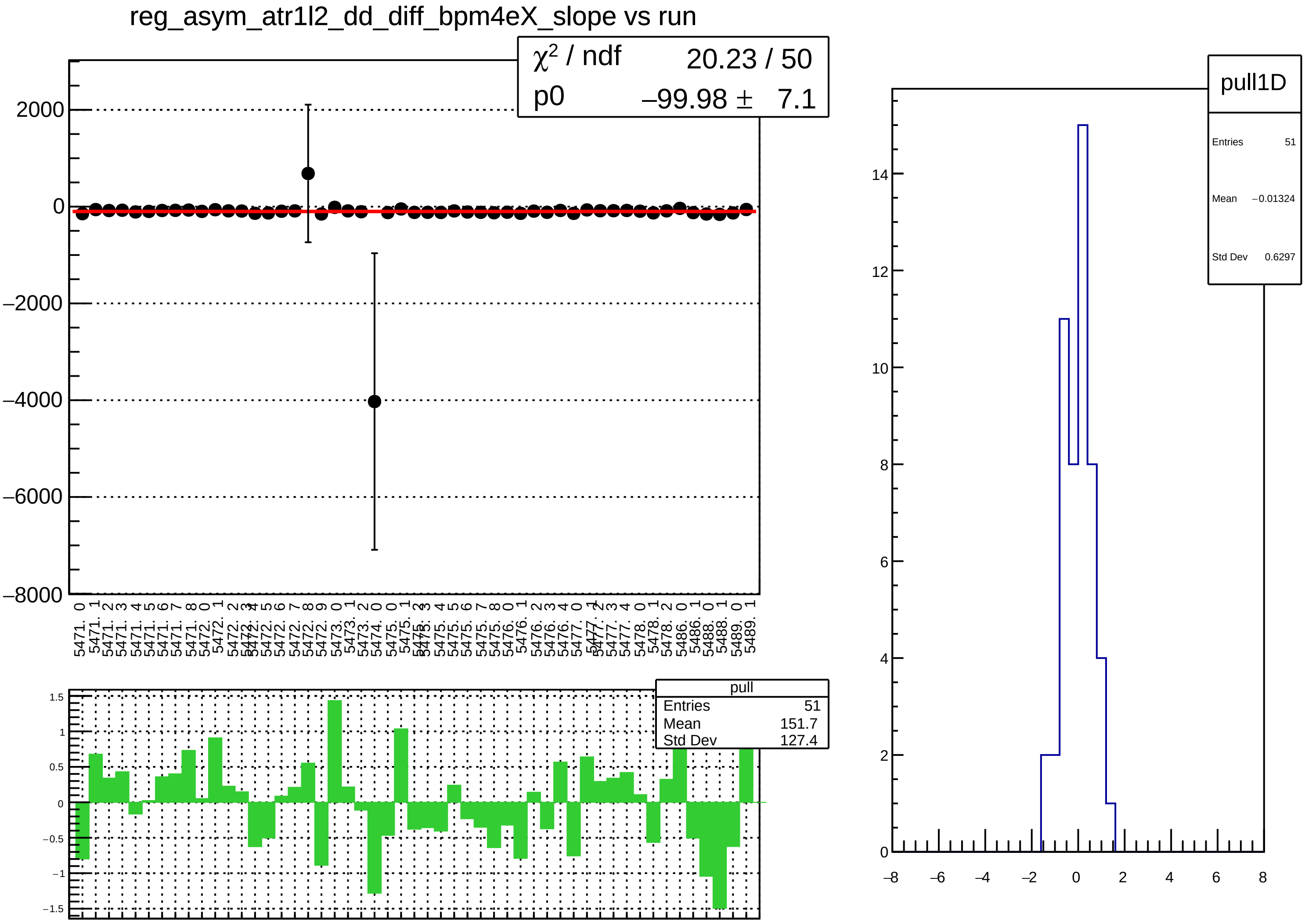


reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ^2 / ndf 270.1 / 50
p0 −98.02 ± 0.1972
pull
Entries 51
Mean −169.2
Std Dev 195.1
pull1D
Entries 51
Mean −0.04012
Std Dev 2.301

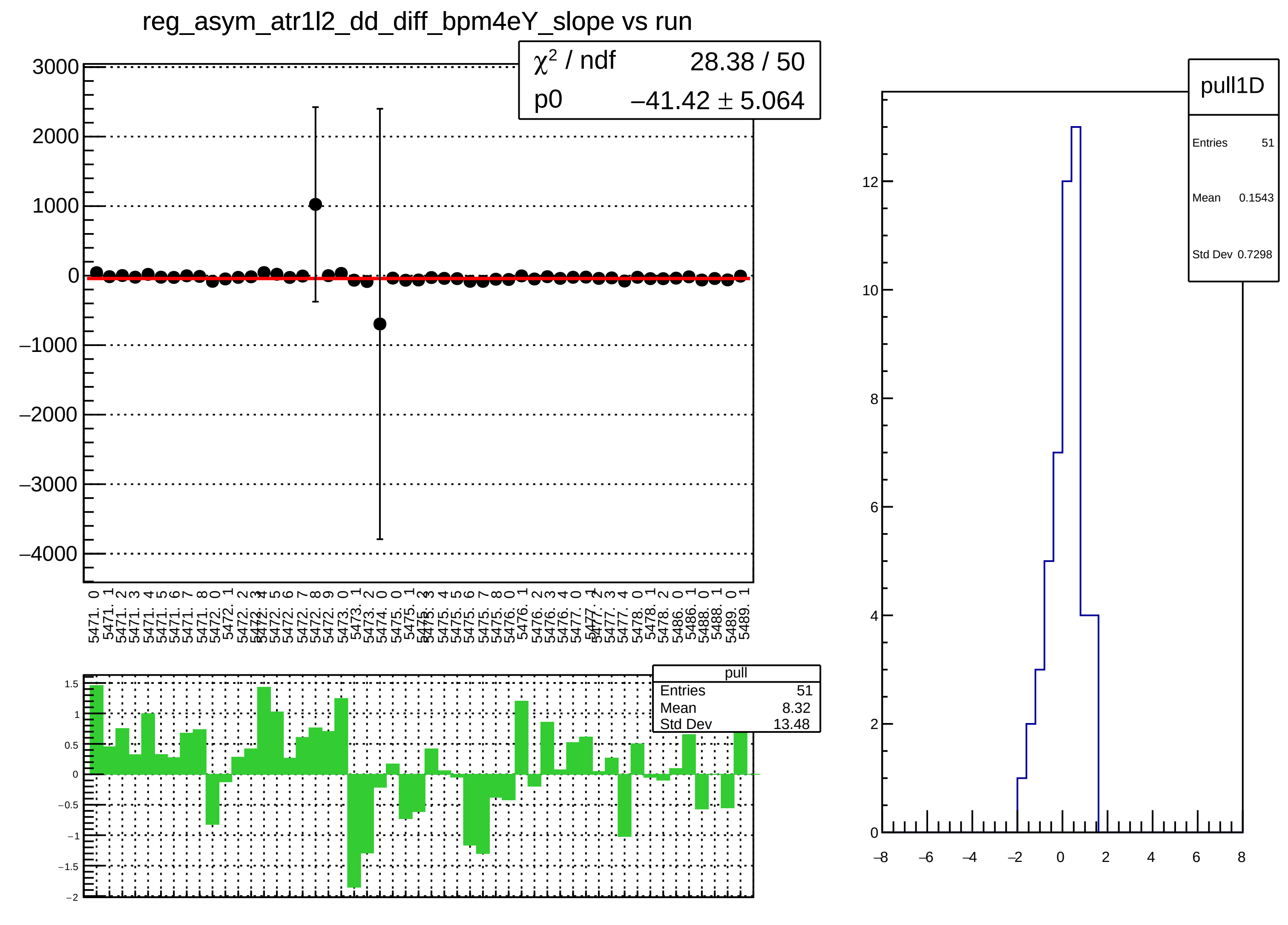

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ2 / ndf 19.95 / 50
p0 93.85 ± 7.333
pull
Entries 51
Mean 158.2
Std Dev 133.9
pull1D
Entries 51
Mean 0.01164
Std Dev 0.6253



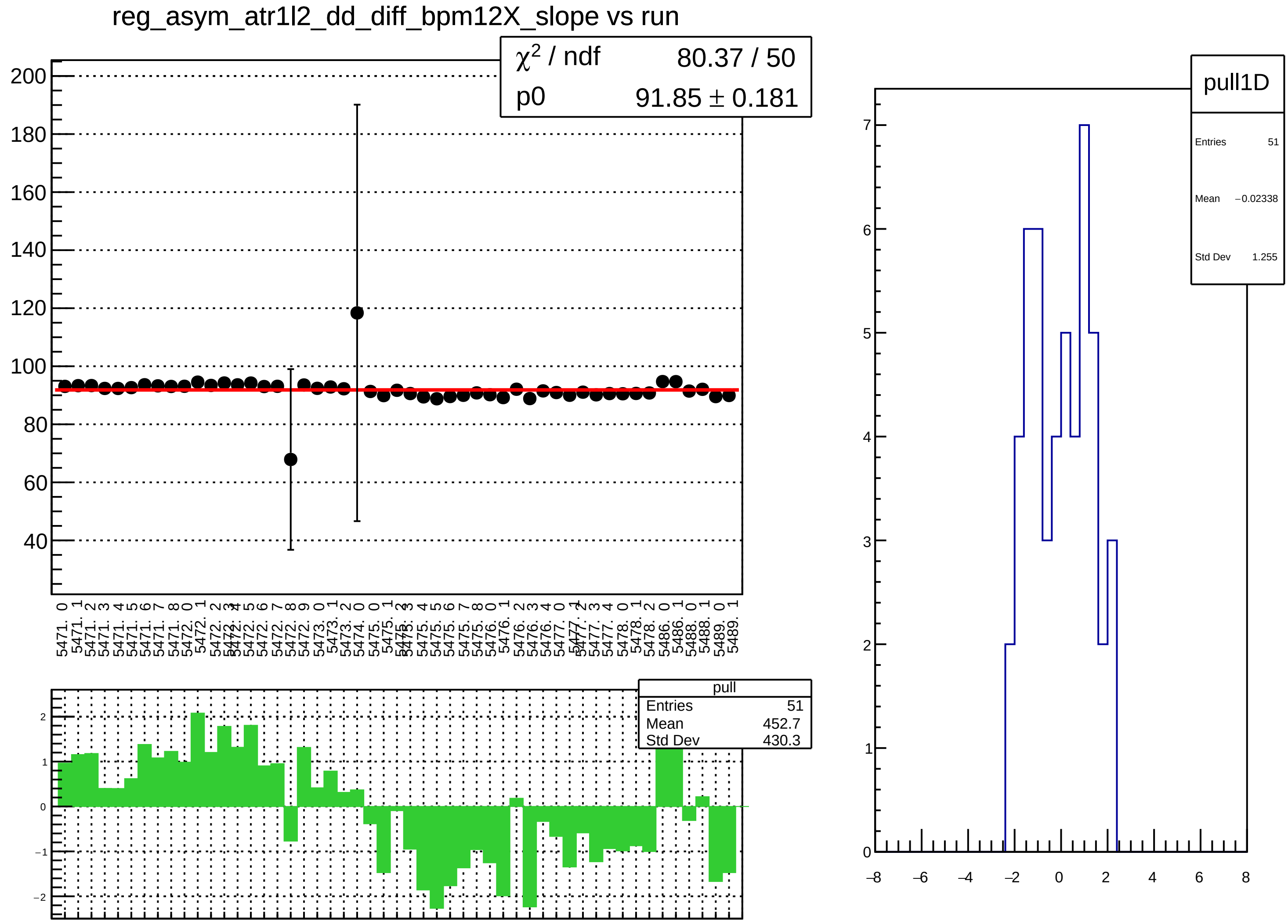
reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ2 / ndf 30.24 / 50
p0 −13.22 ± 4.016
pull
Entries 51
Mean 7.492
Std Dev 12.75
pull1D
Entries 51
Mean −0.1725
Std Dev 0.7505



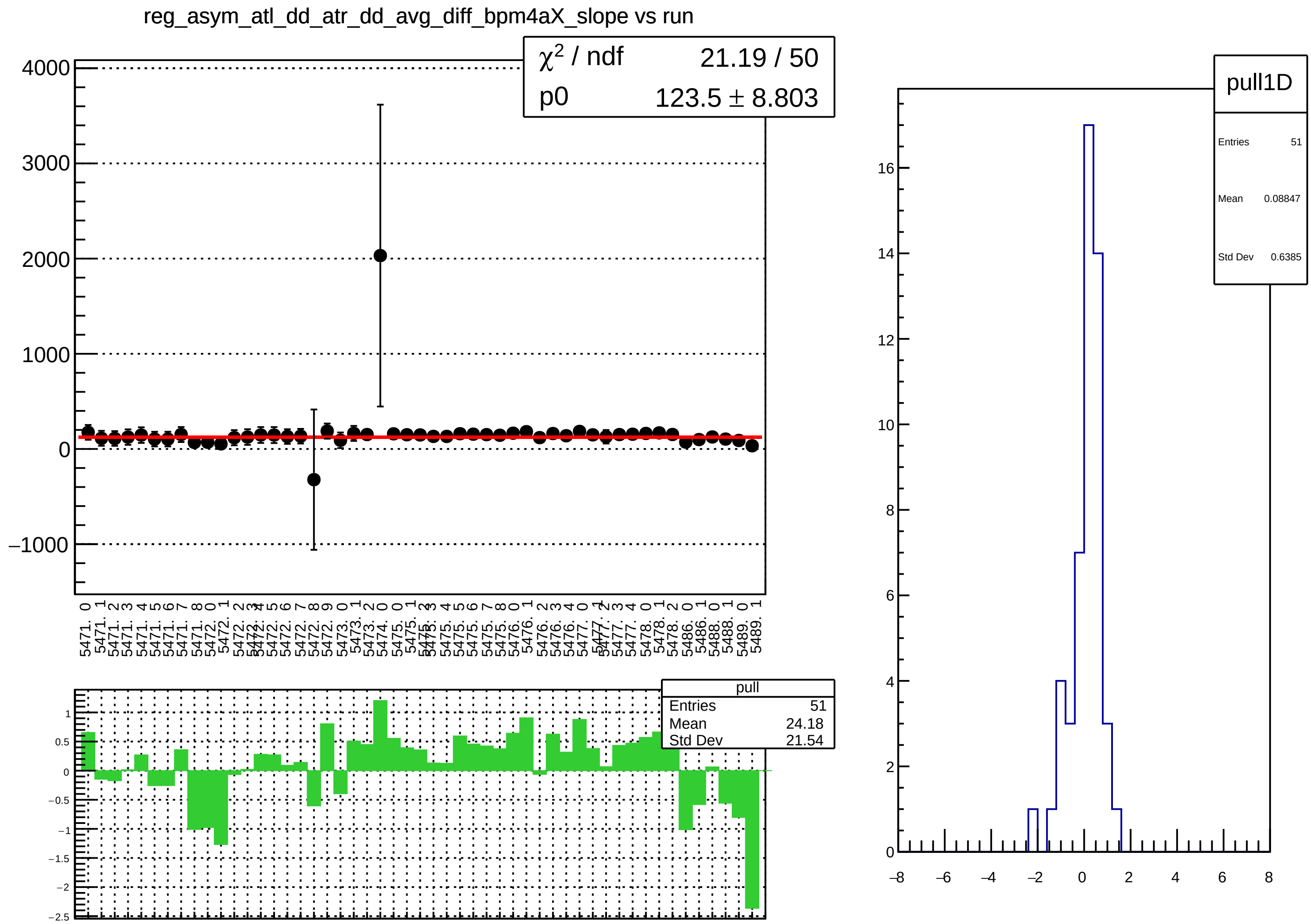
reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 20.23 / 50
p0 −99.98 ± 7.1
2000
0
−2000
−4000
−6000
−8000
pull
Entries 51
Mean 151.7
Std Dev 127.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean −0.01324
Std Dev 0.6297
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



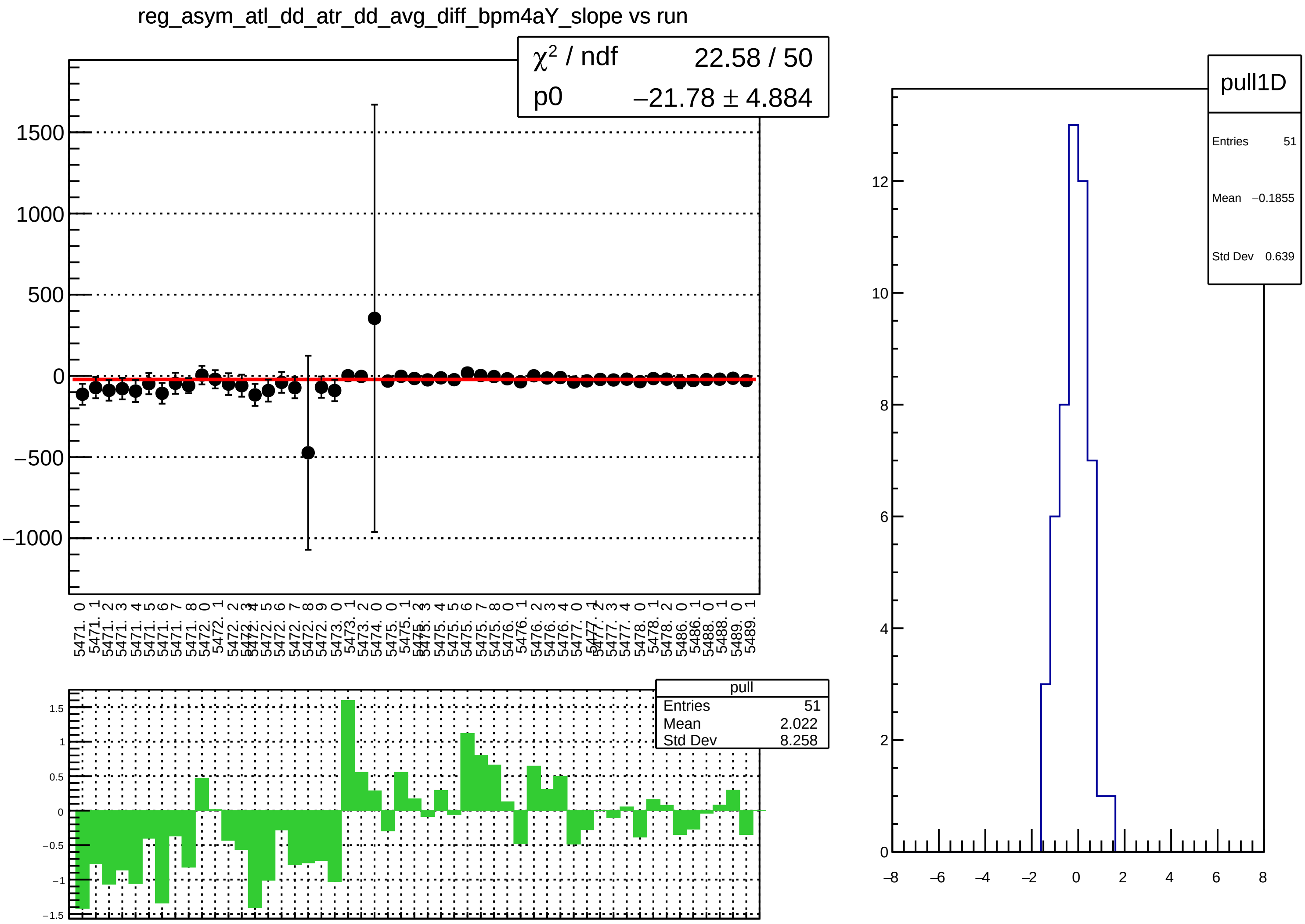
reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 28.38 / 50
p0 −41.42 ± 5.064
pull
Entries 51
Mean 8.32
Std Dev 13.48
pull1D
Entries 51
Mean 0.1543
Std Dev 0.7298



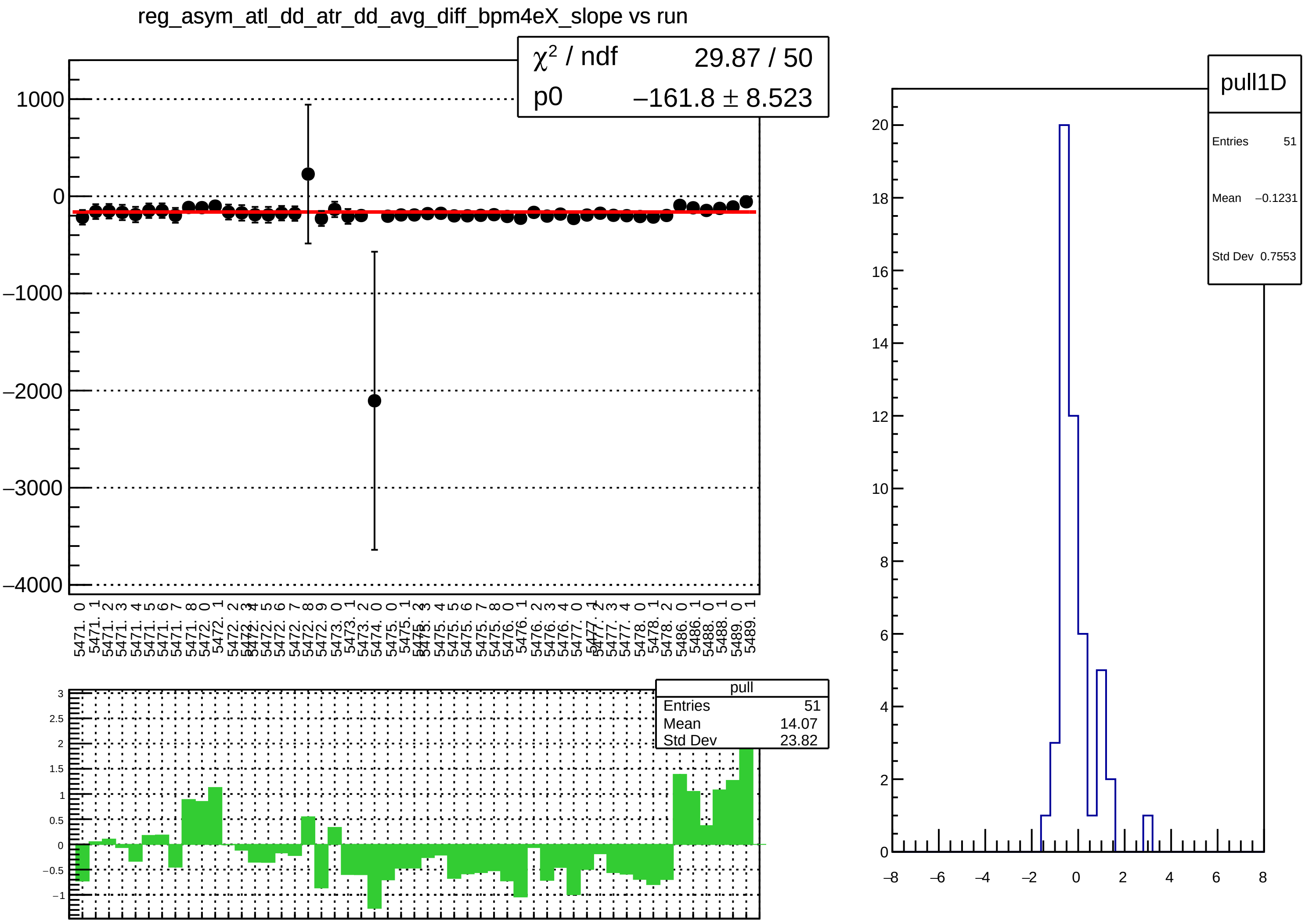
reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 80.37 / 50
p0 91.85 ± 0.181
pull
Entries 51
Mean 452.7
Std Dev 430.3
pull1D
Entries 51
Mean −0.02338
Std Dev 1.255



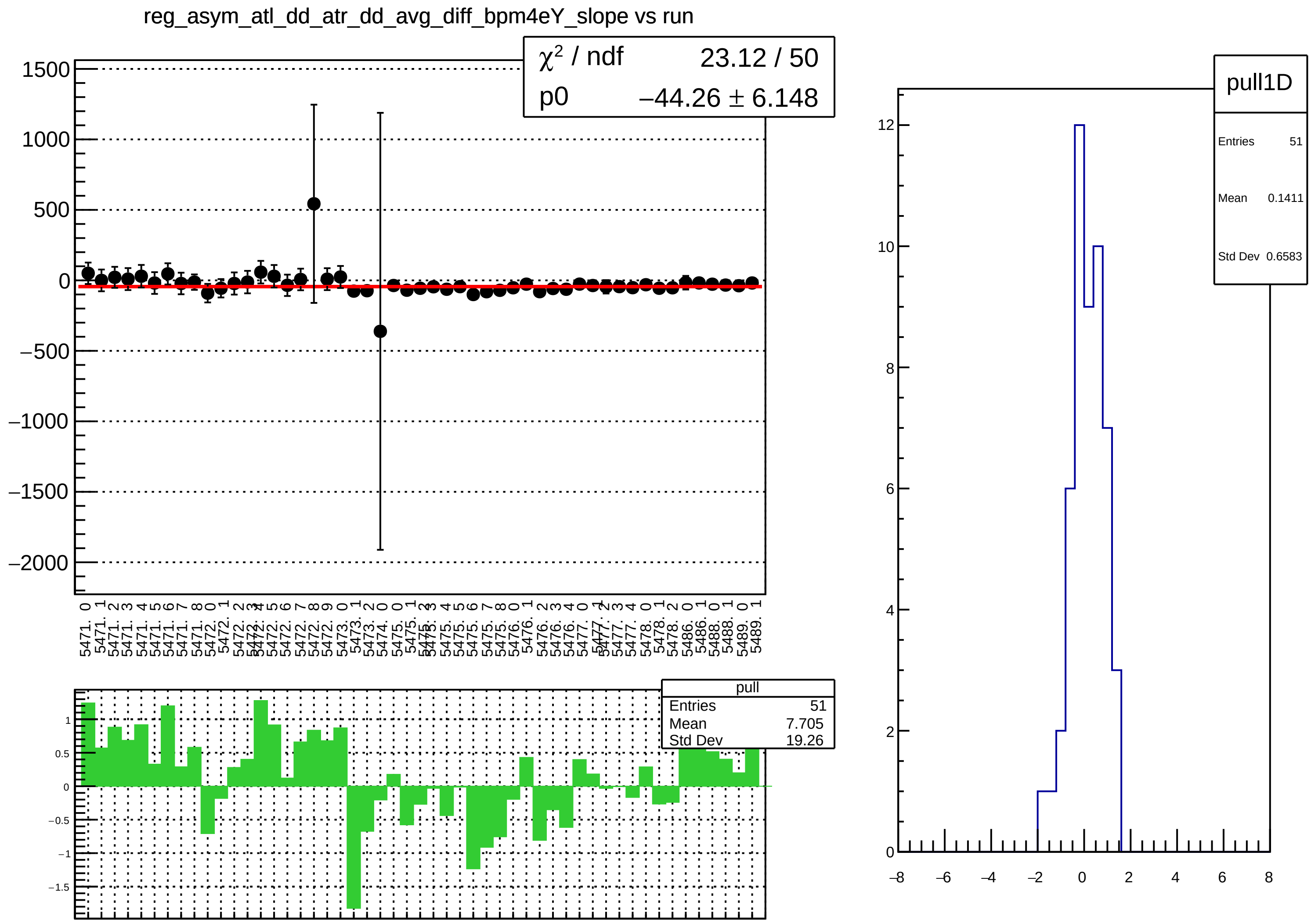
reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ2 / ndf 21.19 / 50
p0 123.5 ± 8.803
pull
Entries 51
Mean 24.18
Std Dev 21.54
pull1D
Entries 51
Mean 0.08847
Std Dev 0.6385



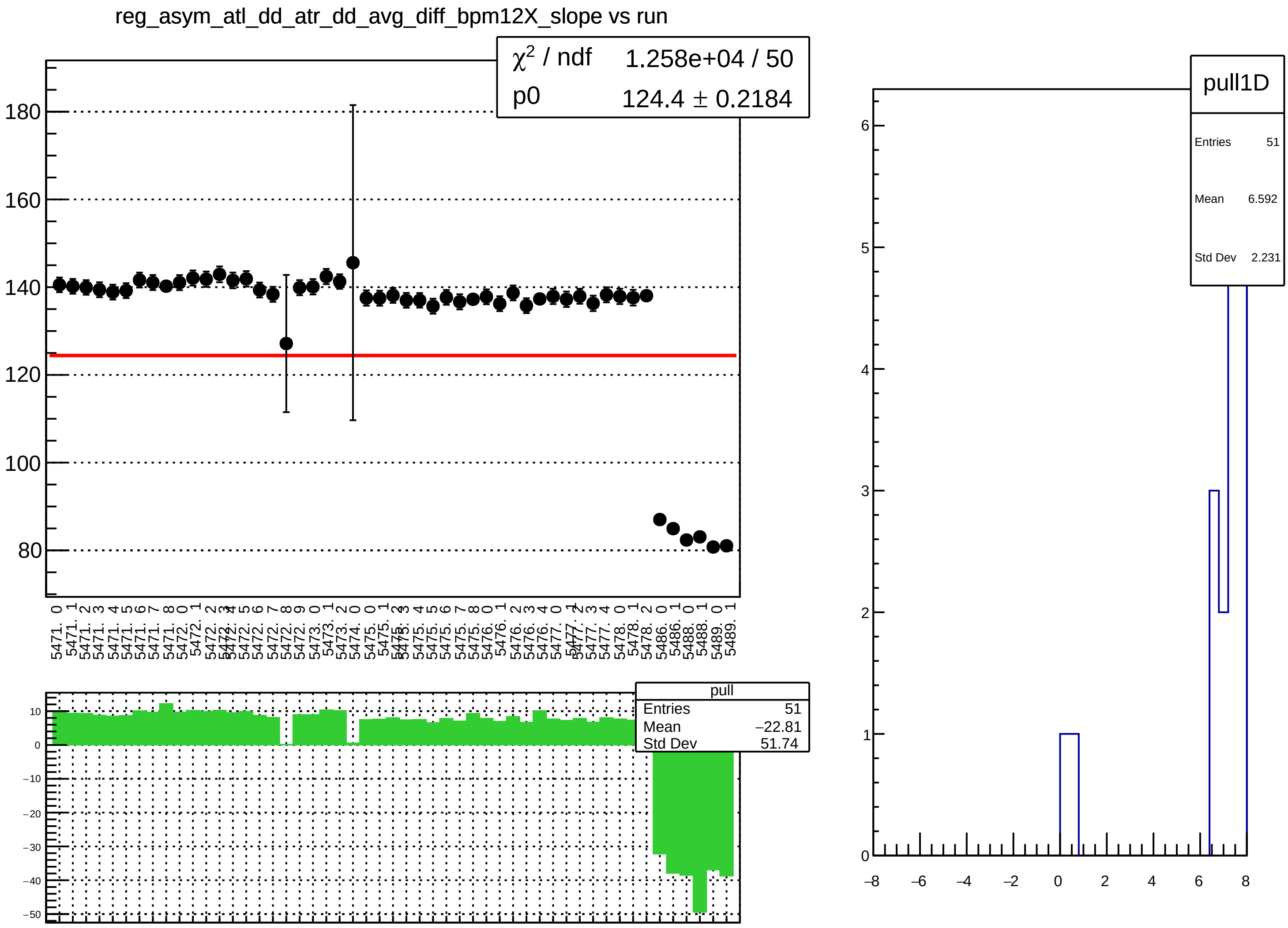
reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ2 / ndf 22.58 / 50
p0 −21.78 ± 4.884
1500
1000
500
0
−500
−1000
pull
Entries 51
Mean 2.022
Std Dev 8.258
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean −0.1855
Std Dev 0.639
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



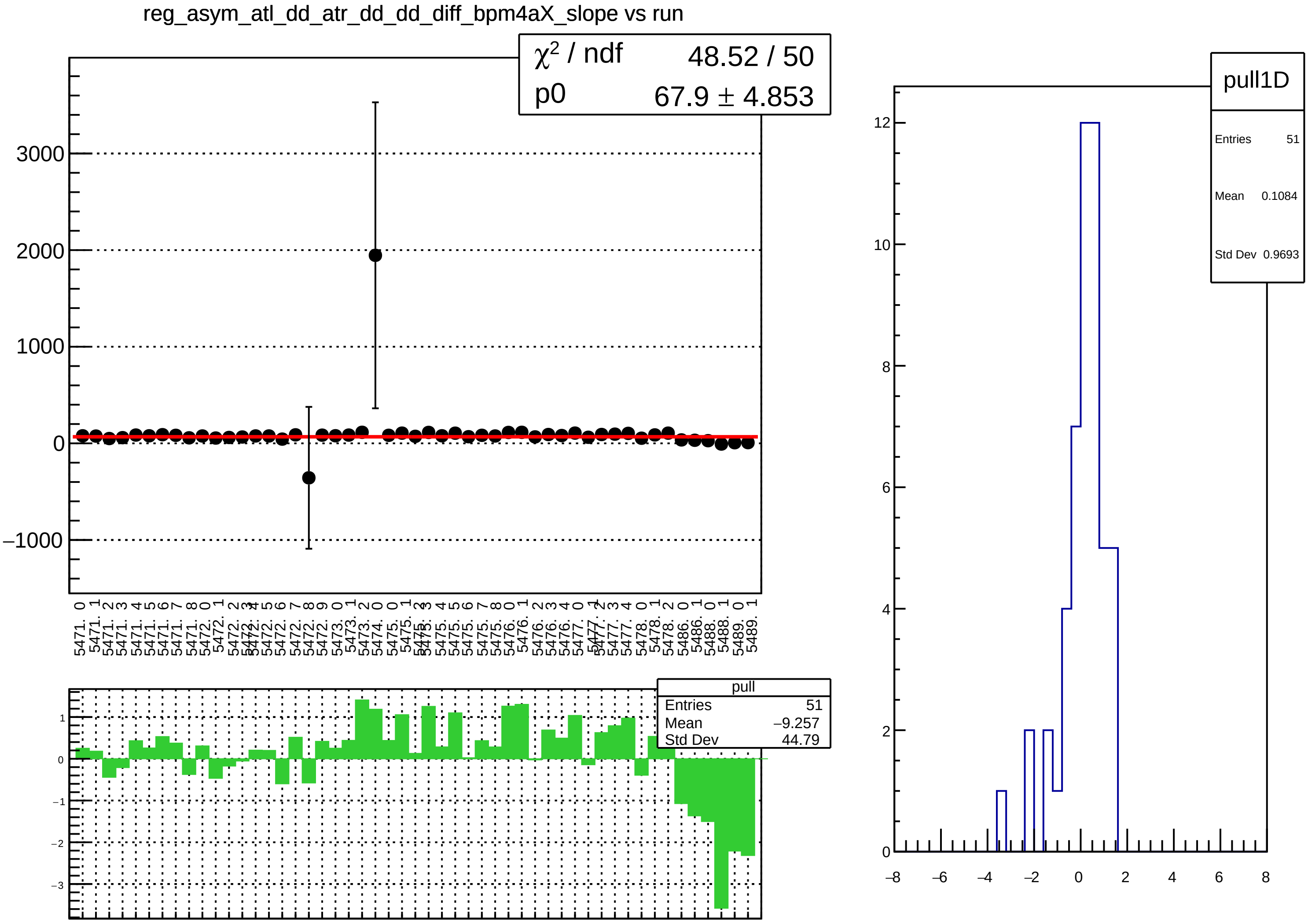
reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 29.87 / 50
p0 −161.8 ± 8.523
pull
Entries 51
Mean 14.07
Std Dev 23.82
pull1D
Entries 51
Mean −0.1231
Std Dev 0.7553

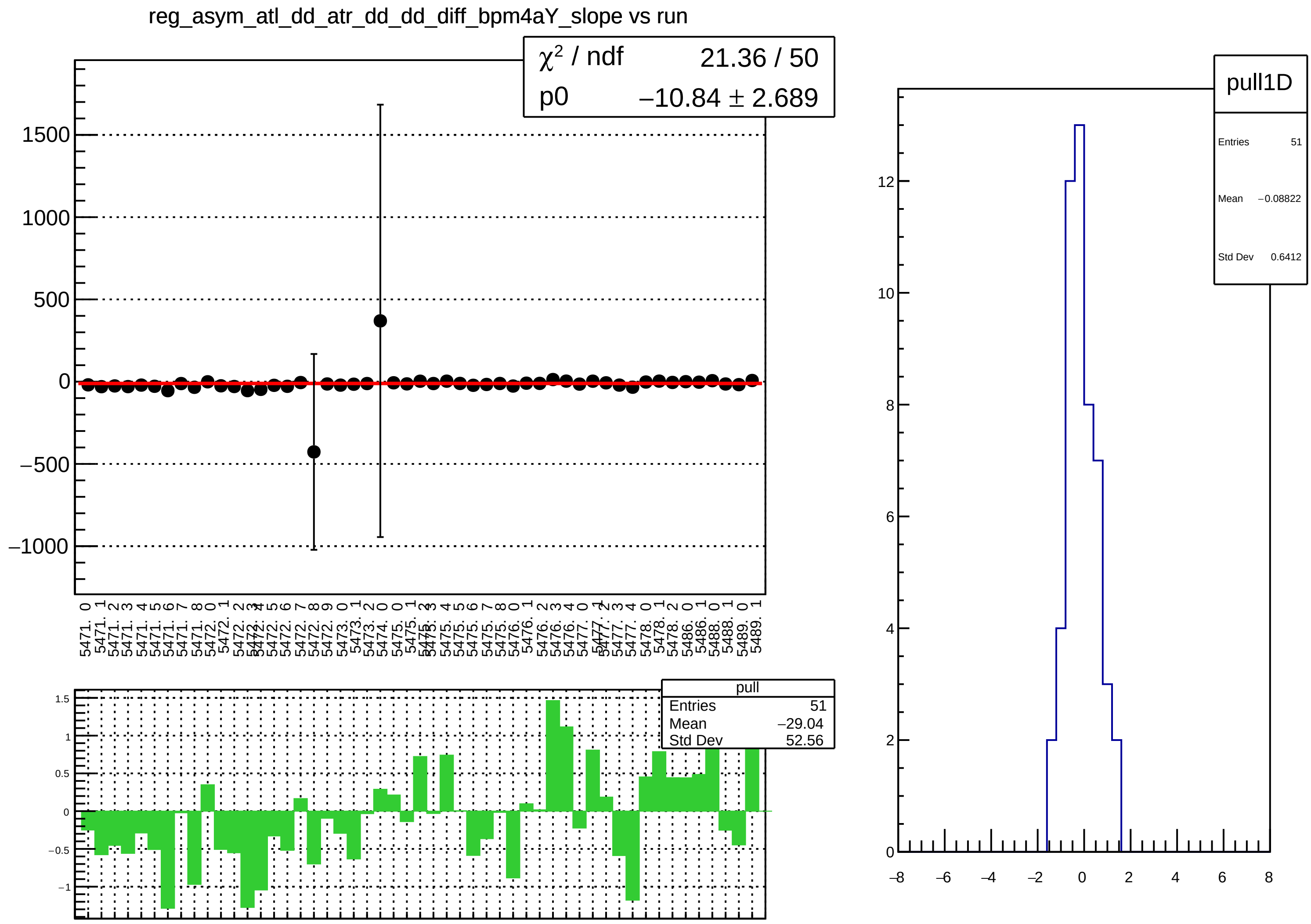


reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ2 / ndf 23.12 / 50
p0 −44.26 ± 6.148
pull
Entries 51
Mean 7.705
Std Dev 19.26
pull1D
Entries 51
Mean 0.1411
Std Dev 0.6583

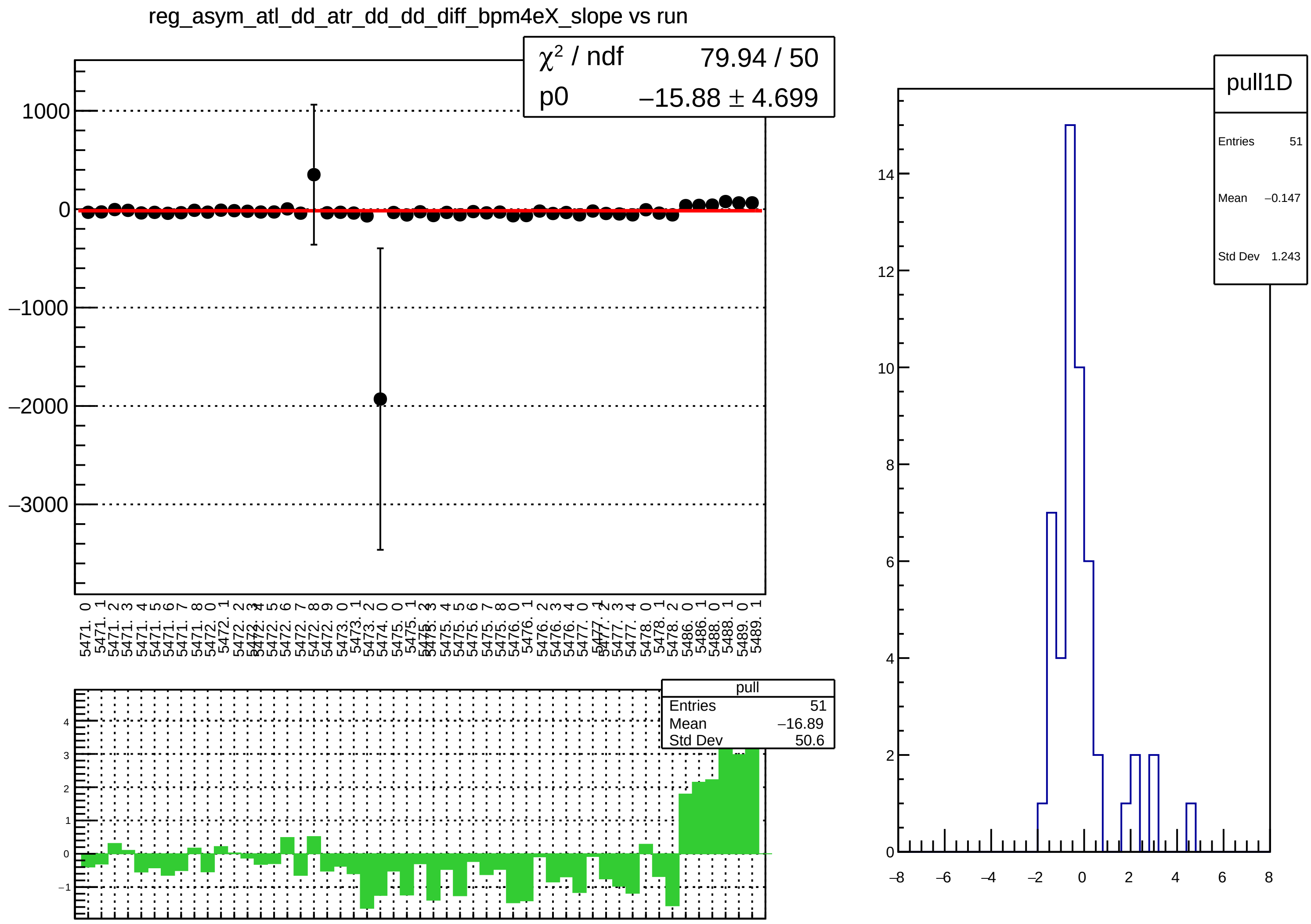


reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ^2 / ndf 1.258e+04 / 50
p0 124.4 ± 0.2184
pull
Entries 51
Mean −22.81
Std Dev 51.74
pull1D
Entries 51
Mean 6.592
Std Dev 2.231

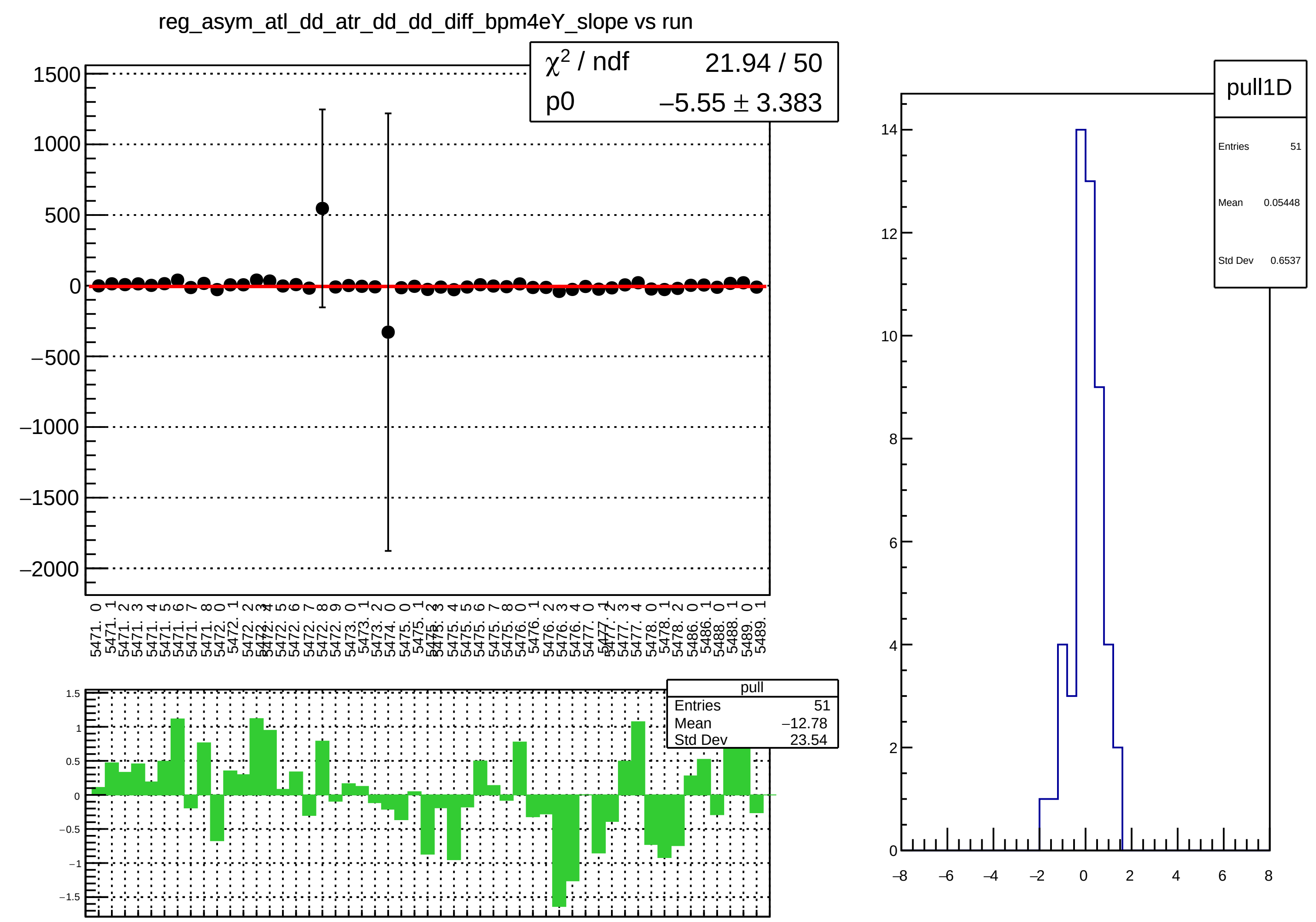

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ2 / ndf 48.52 / 50
p0 67.9 ± 4.853
pull
Entries 51
Mean −9.257
Std Dev 44.79
pull1D
Entries 51
Mean 0.1084
Std Dev 0.9693

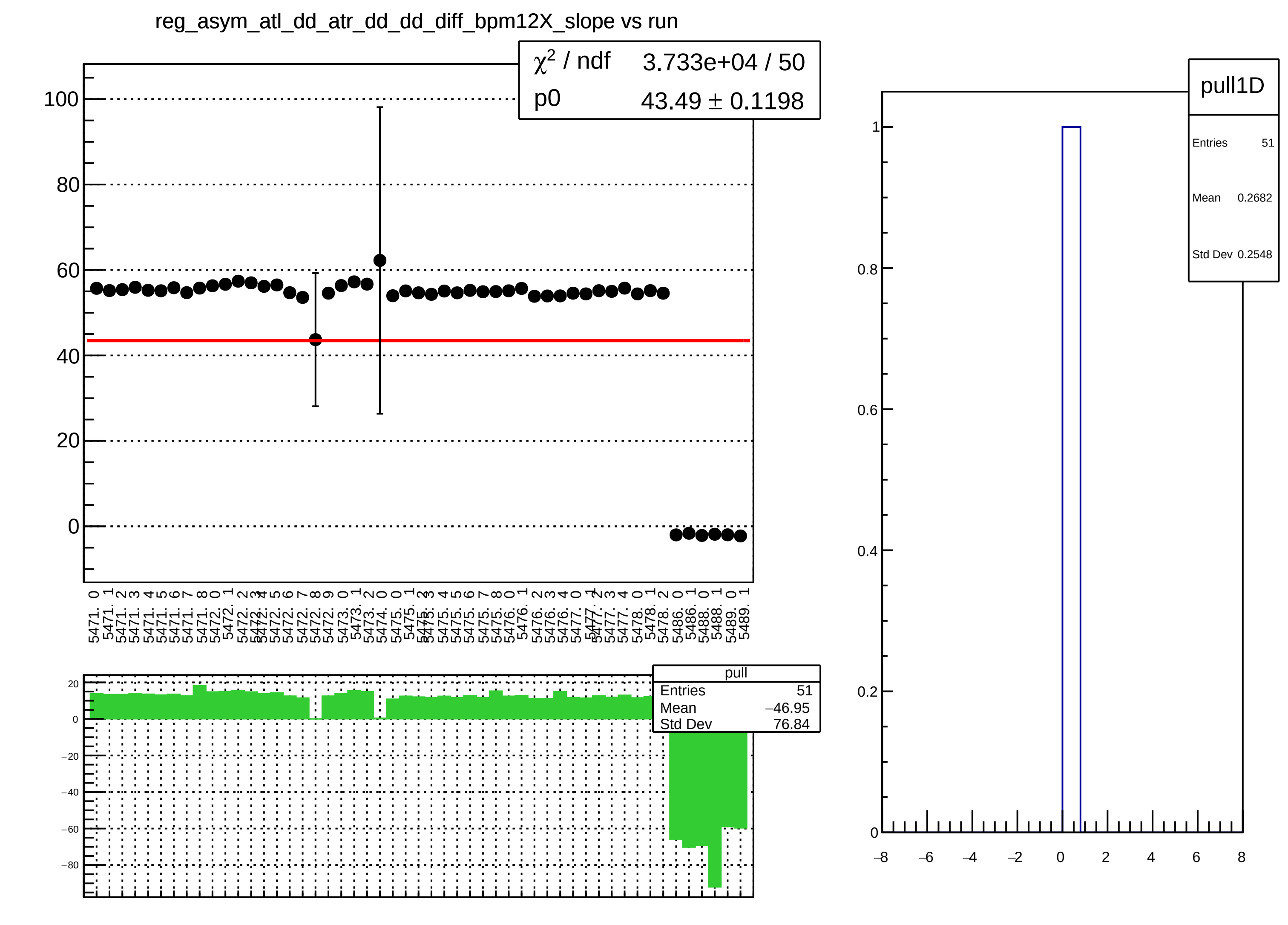


reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ2 / ndf 21.36 / 50
p0 −10.84 ± 2.689
pull
Entries 51
Mean −29.04
Std Dev 52.56
pull1D
Entries 51
Mean −0.08822
Std Dev 0.6412

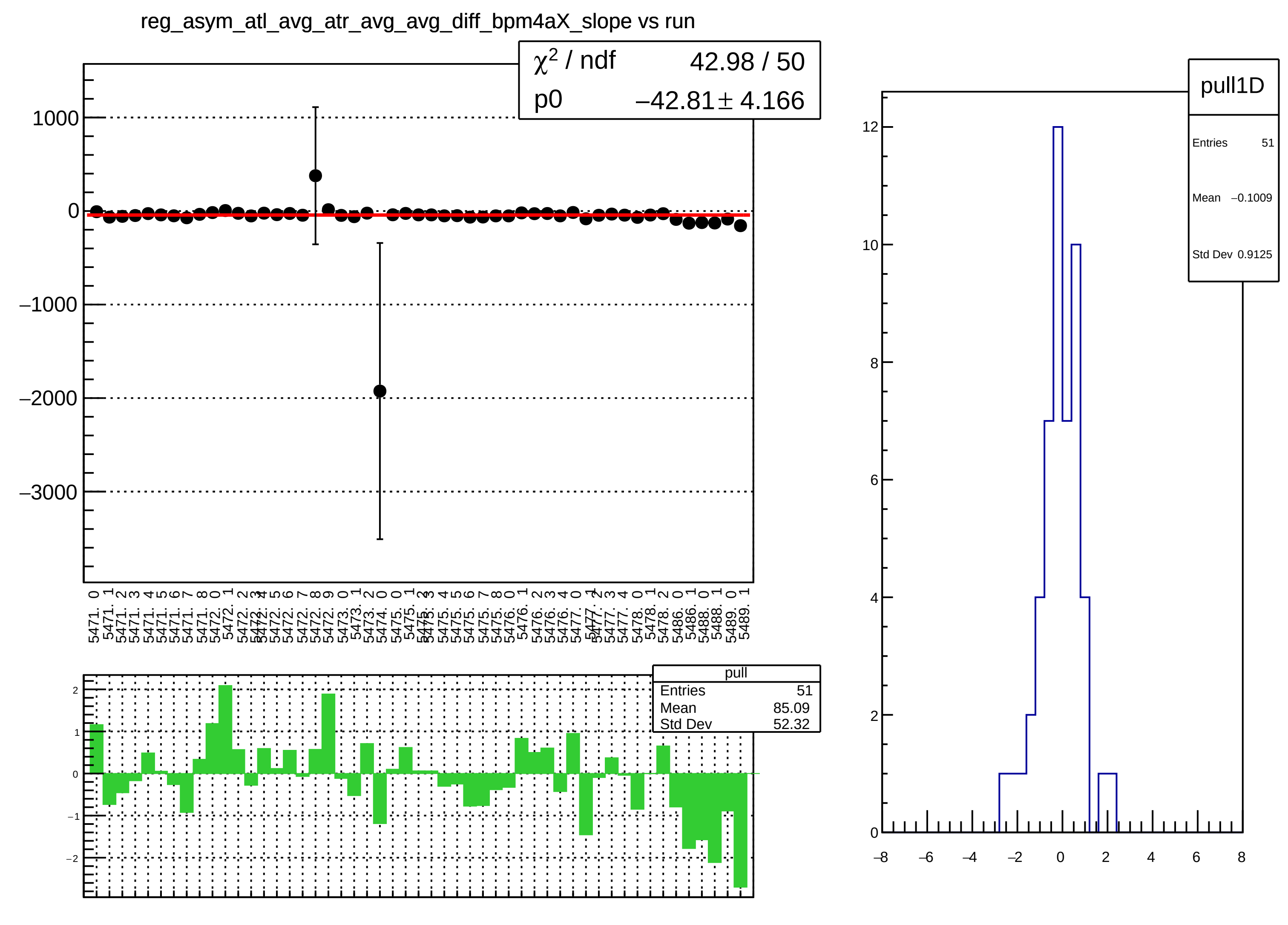


reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 79.94 / 50
p0 −15.88 ± 4.699
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean −16.89
Std Dev 50.6
pull1D
Entries 51
Mean −0.147
Std Dev 1.243

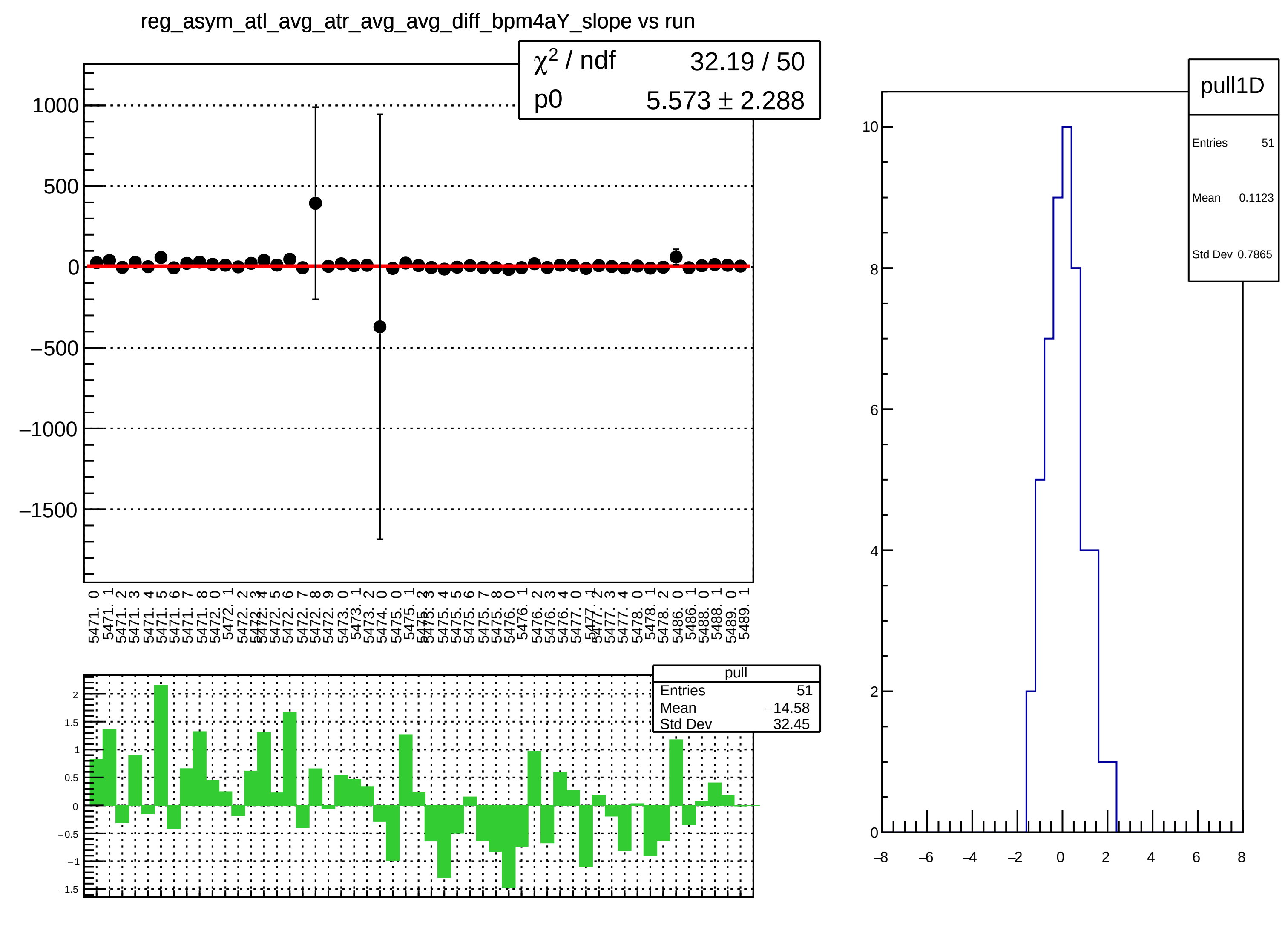

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 21.94 / 50
p0 −5.55 ± 3.383
pull
Entries 51
Mean −12.78
Std Dev 23.54
pull1D
Entries 51
Mean 0.05448
Std Dev 0.6537



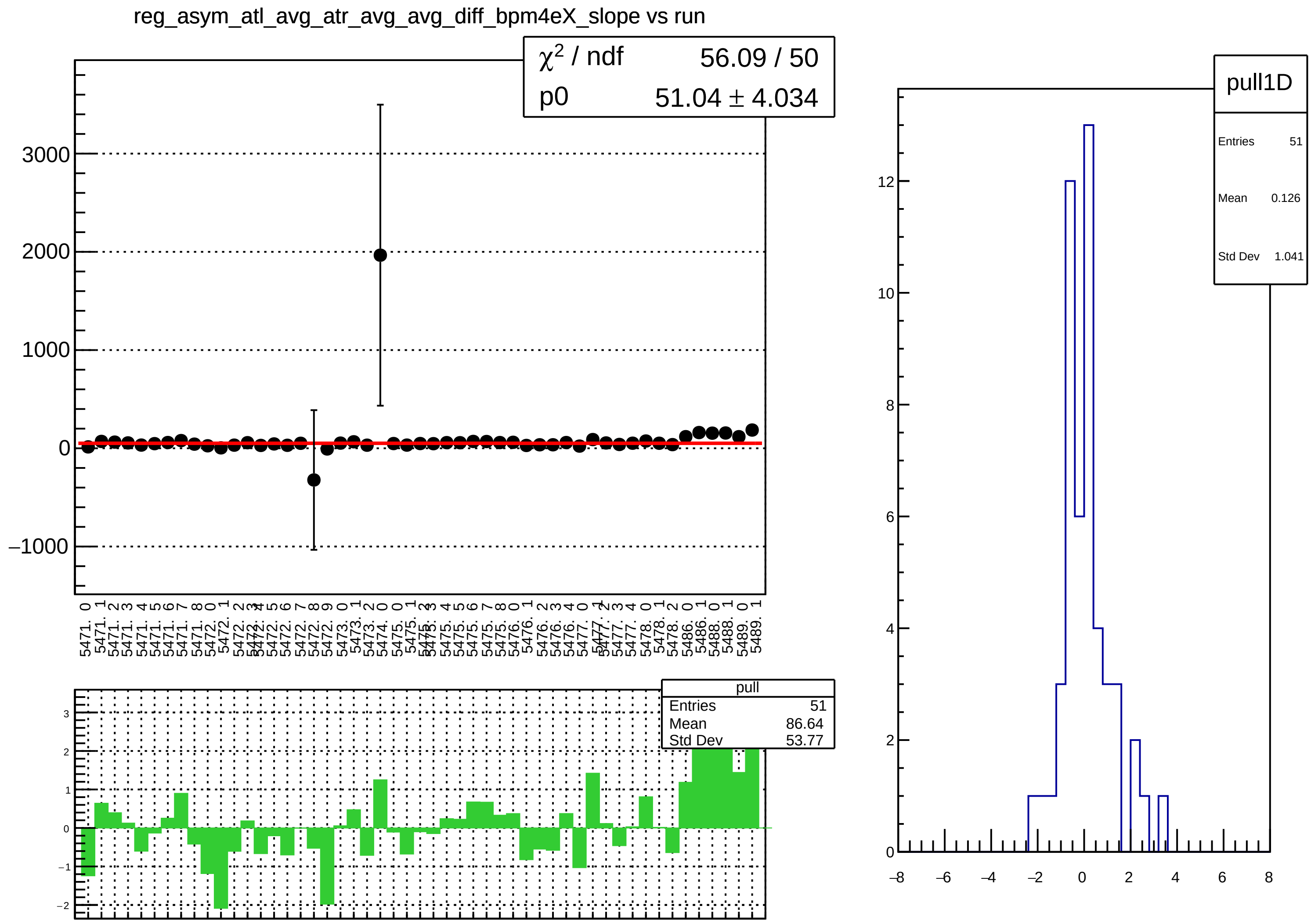
reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ^2 / ndf 3.733e+04 / 50
p0 43.49 ± 0.1198
100
80
60
40
20
0
pull
Entries 51
Mean −46.95
Std Dev 76.84
20
0
−20
−40
−60
−80
pull1D
Entries 51
Mean 0.2682
Std Dev 0.2548
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



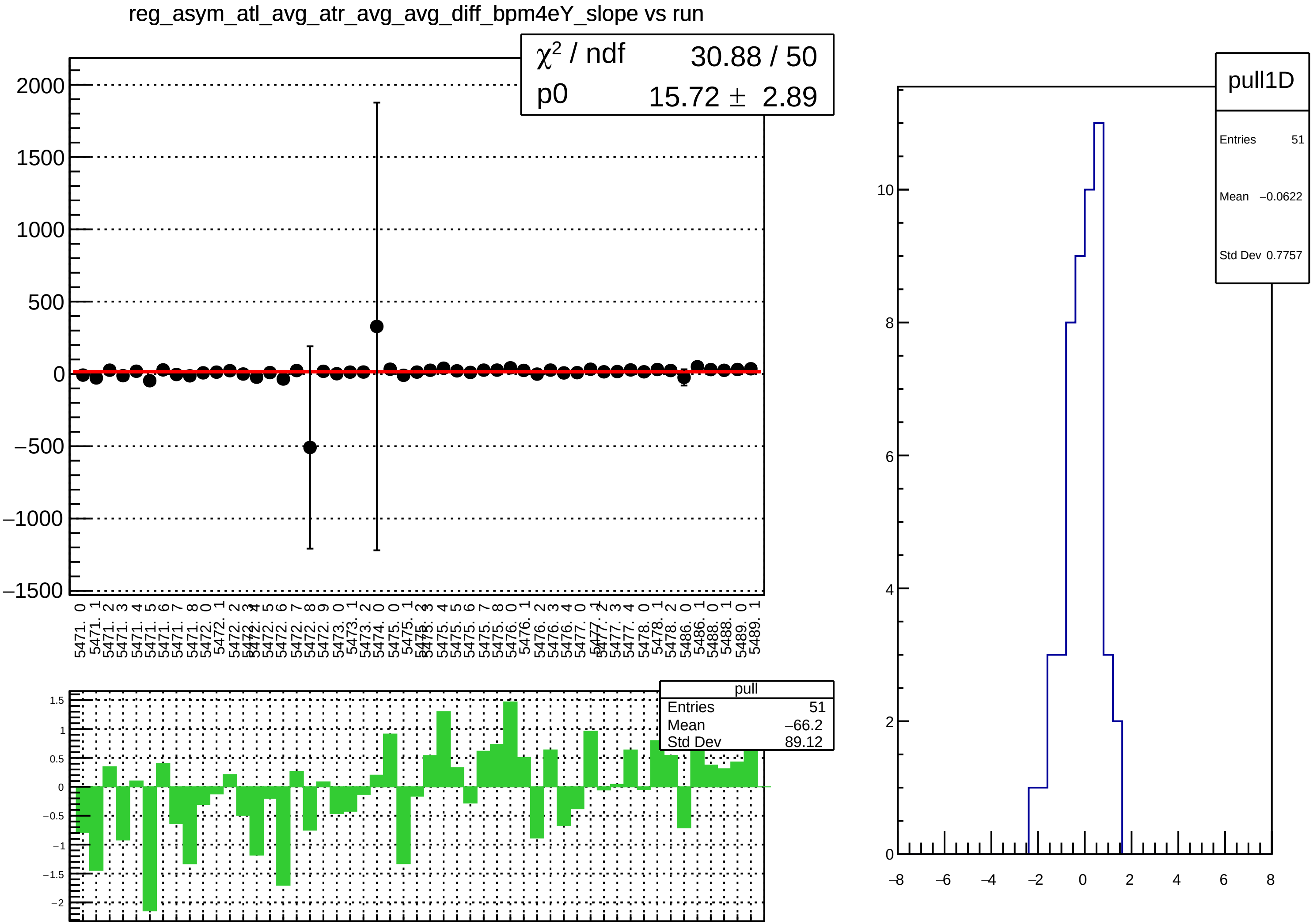
reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ2 / ndf 42.98 / 50
p0 −42.81 ± 4.166
pull
Entries 51
Mean 85.09
Std Dev 52.32
pull1D
Entries 51
Mean −0.1009
Std Dev 0.9125



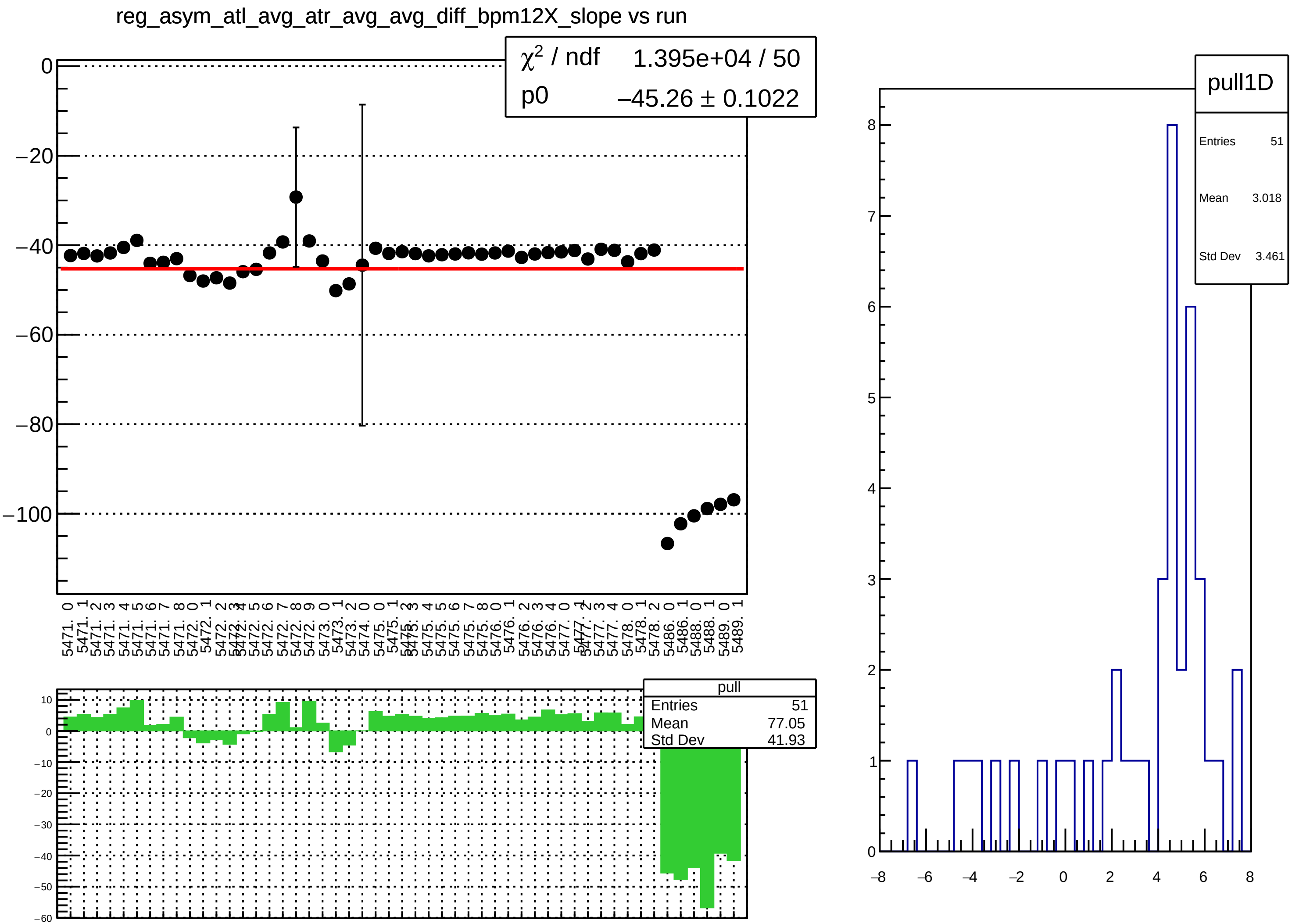
reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 32.19 / 50
p0 5.573 ± 2.288
1000
500
0
−500
−1000
−1500
pull
Entries 51
Mean −14.58
Std Dev 32.45
pull1D
Entries 51
Mean 0.1123
Std Dev 0.7865



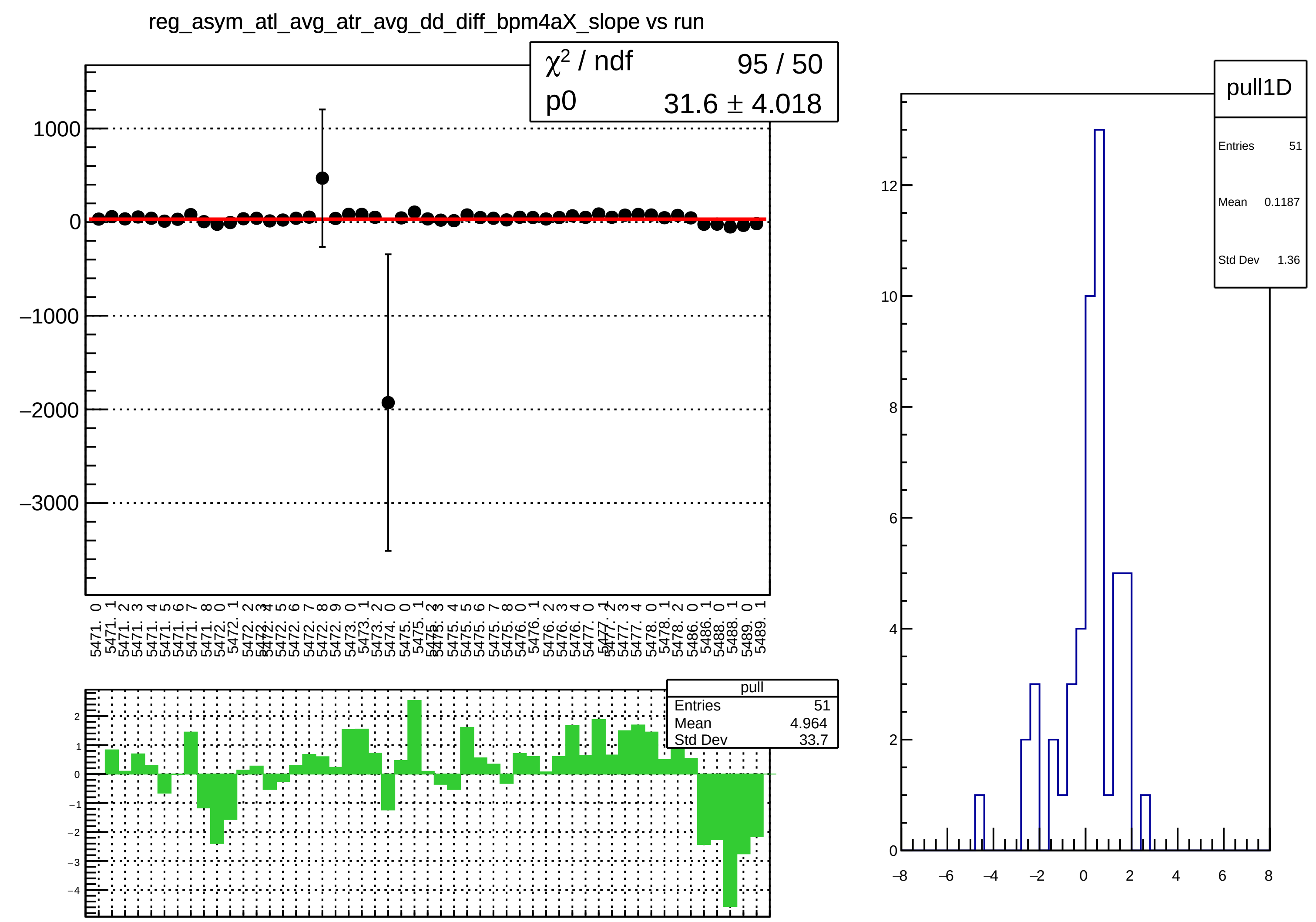
reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ2 / ndf 56.09 / 50
p0 51.04 ± 4.034
pull
Entries 51
Mean 86.64
Std Dev 53.77
pull1D
Entries 51
Mean 0.126
Std Dev 1.041



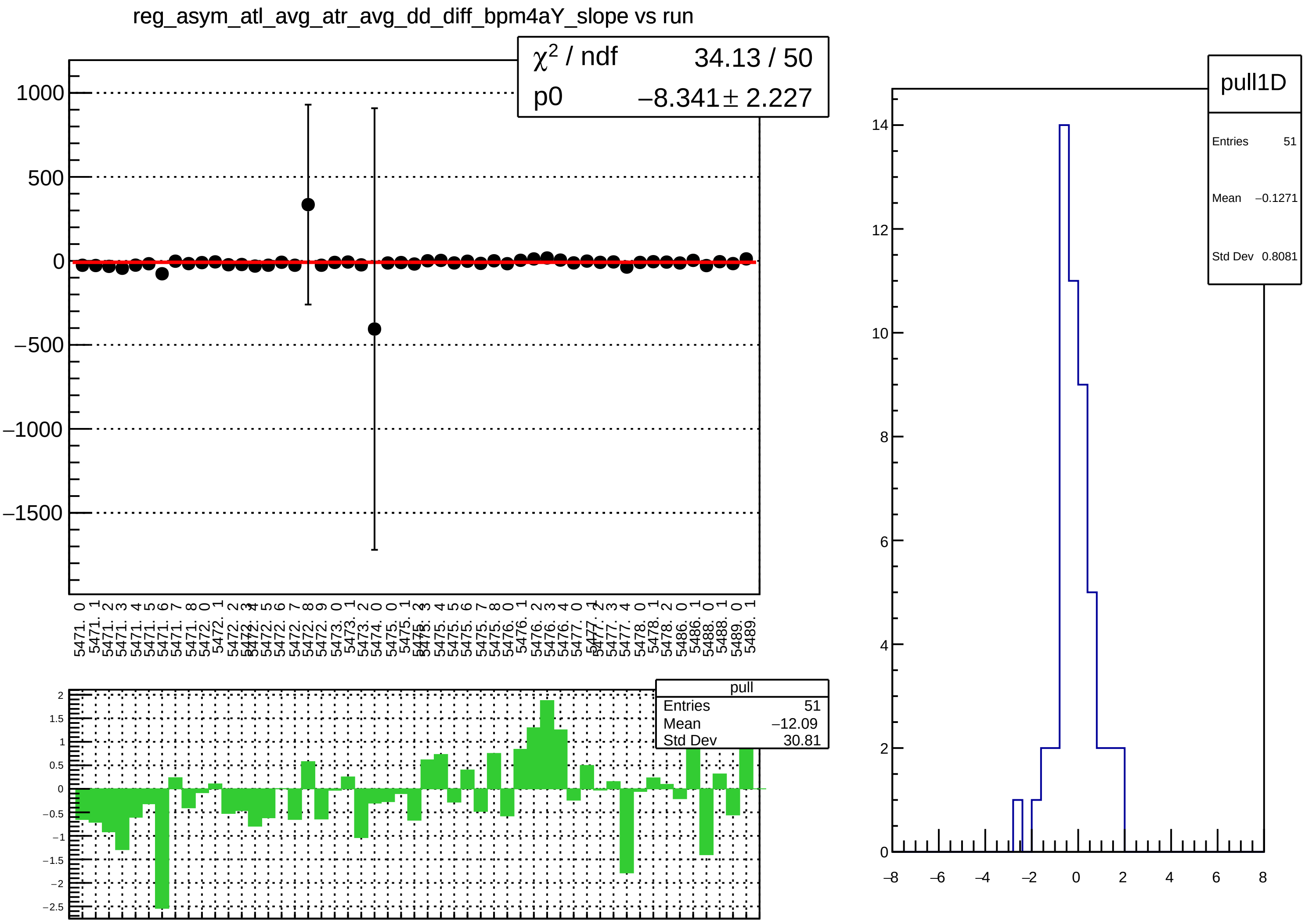
reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ2 / ndf 30.88 / 50
p0 15.72 ± 2.89
pull
Entries 51
Mean −66.2
Std Dev 89.12
pull1D
Entries 51
Mean −0.0622
Std Dev 0.7757



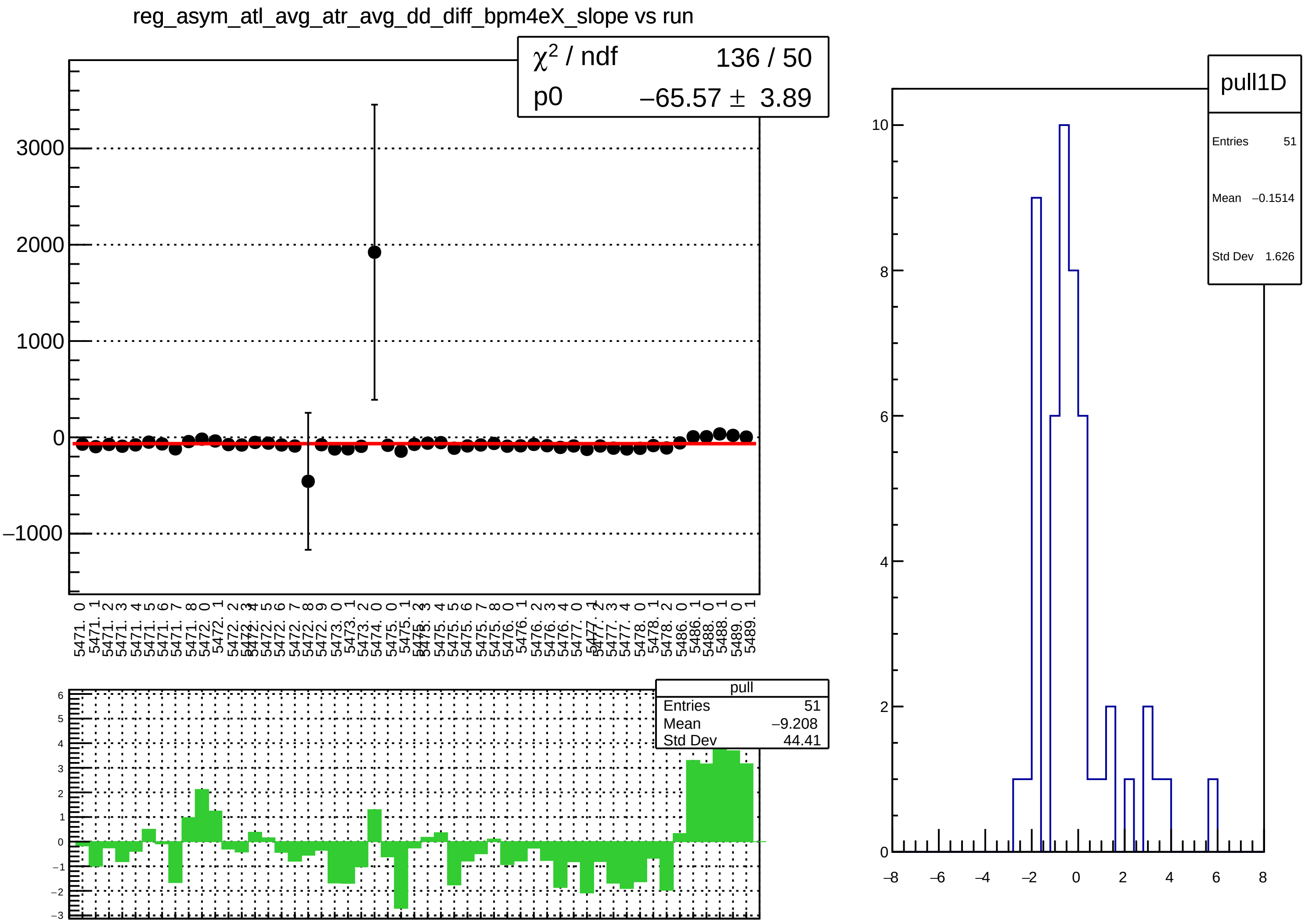
reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ2 / ndf 1.395e+04 / 50
p0 −45.26 ± 0.1022
pull
Entries 51
Mean 77.05
Std Dev 41.93
pull1D
Entries 51
Mean 3.018
Std Dev 3.461



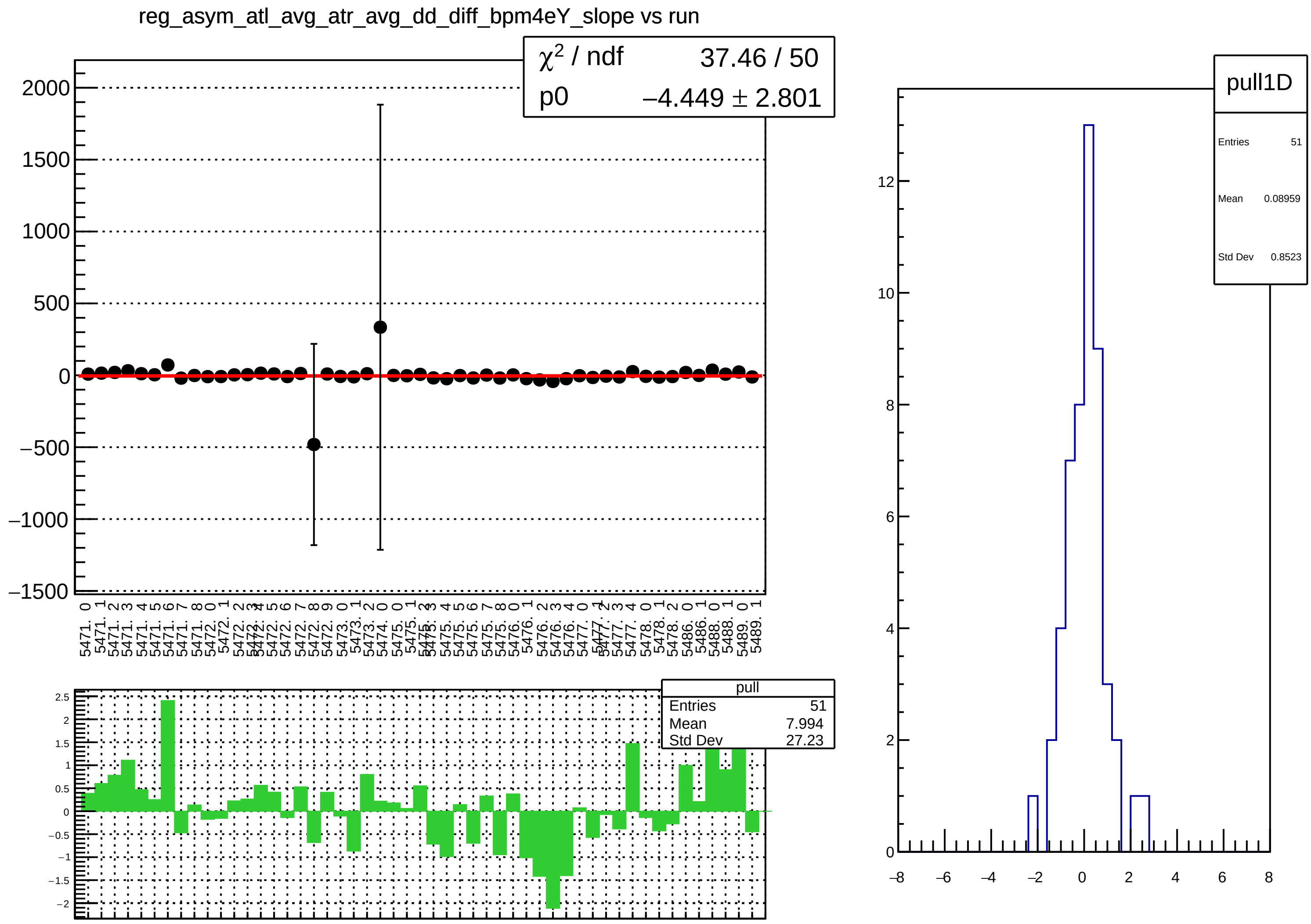
reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ2 / ndf 95 / 50
p0 31.6 ± 4.018
pull
Entries 51
Mean 4.964
Std Dev 33.7
pull1D
Entries 51
Mean 0.1187
Std Dev 1.36



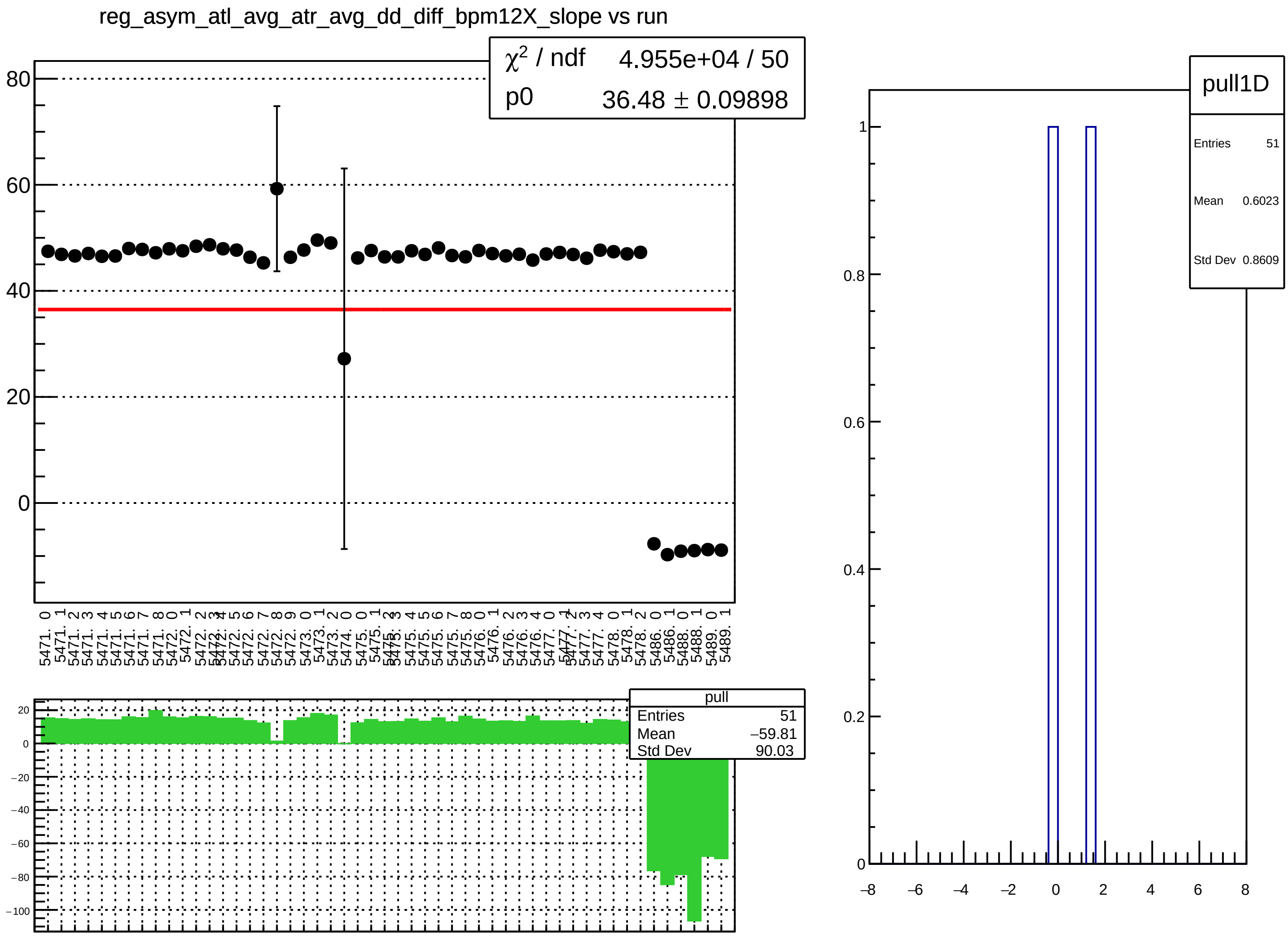
reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 34.13 / 50
p0 −8.341 ± 2.227
pull
Entries 51
Mean −12.09
Std Dev 30.81
pull1D
Entries 51
Mean −0.1271
Std Dev 0.8081



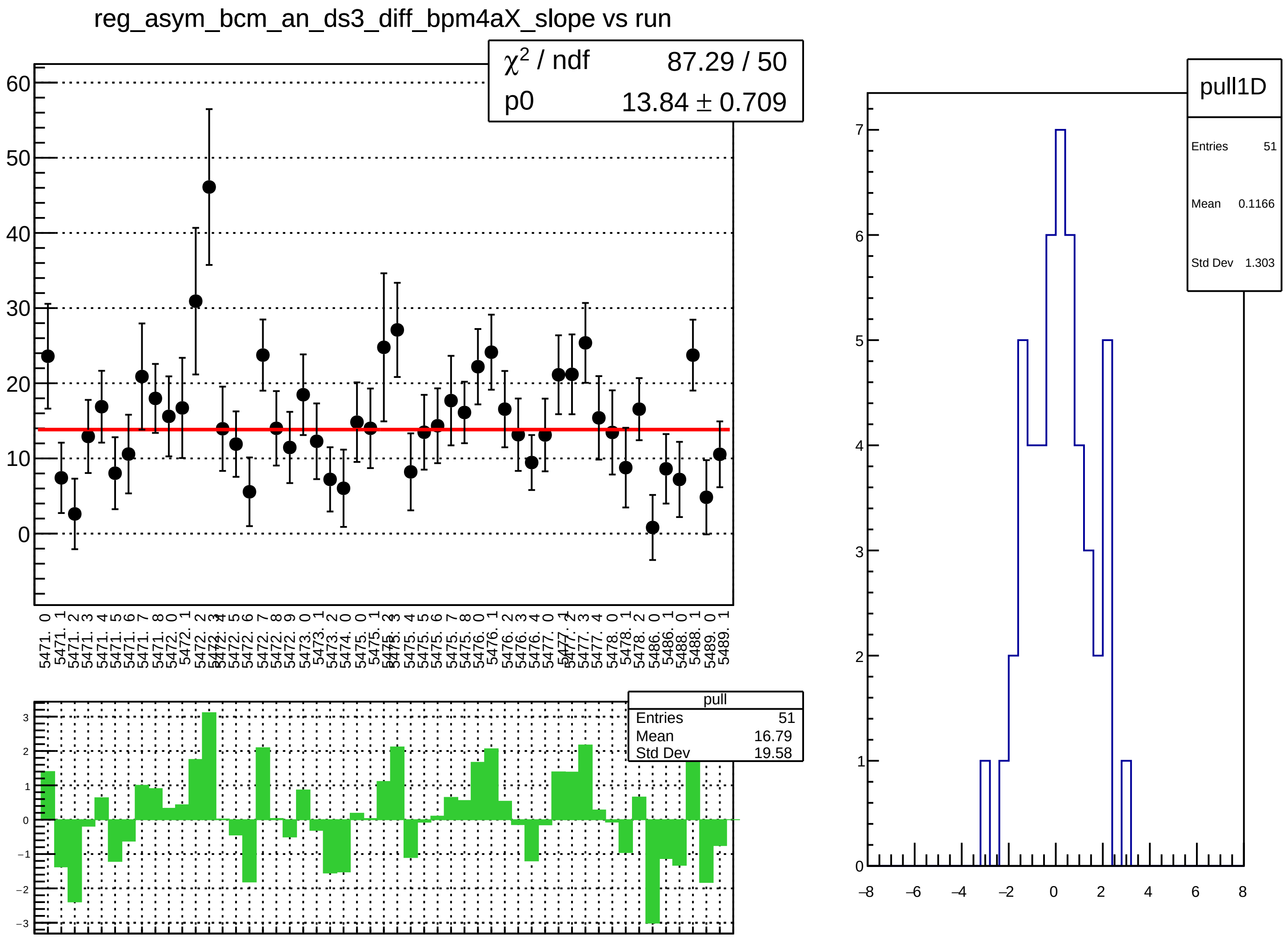
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 136 / 50
p0 −65.57 ± 3.89
pull
Entries 51
Mean −9.208
Std Dev 44.41
pull1D
Entries 51
Mean −0.1514
Std Dev 1.626



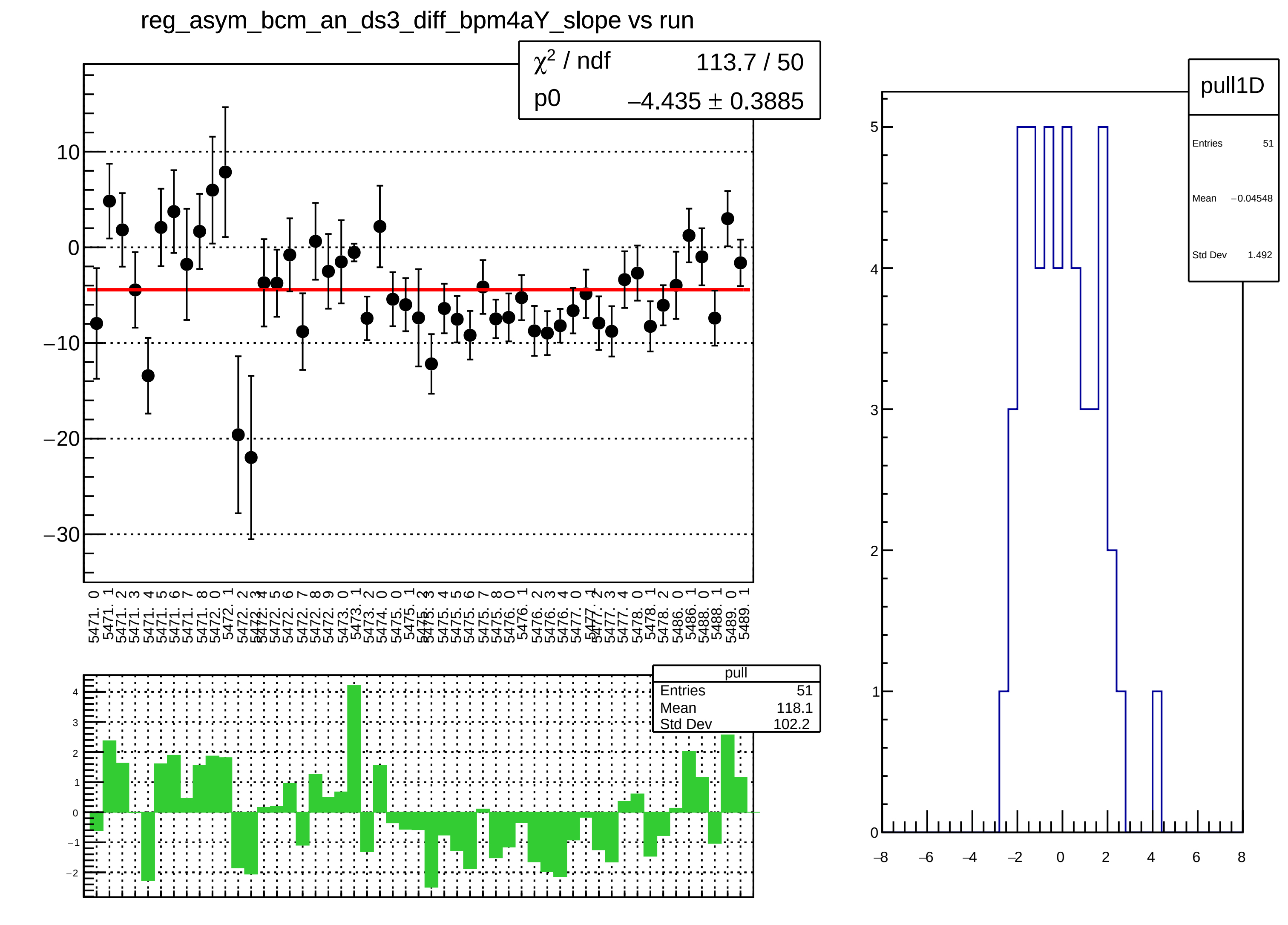
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ2 / ndf 37.46 / 50
p0 −4.449 ± 2.801
pull
Entries 51
Mean 7.994
Std Dev 27.23
pull1D
Entries 51
Mean 0.08959
Std Dev 0.8523



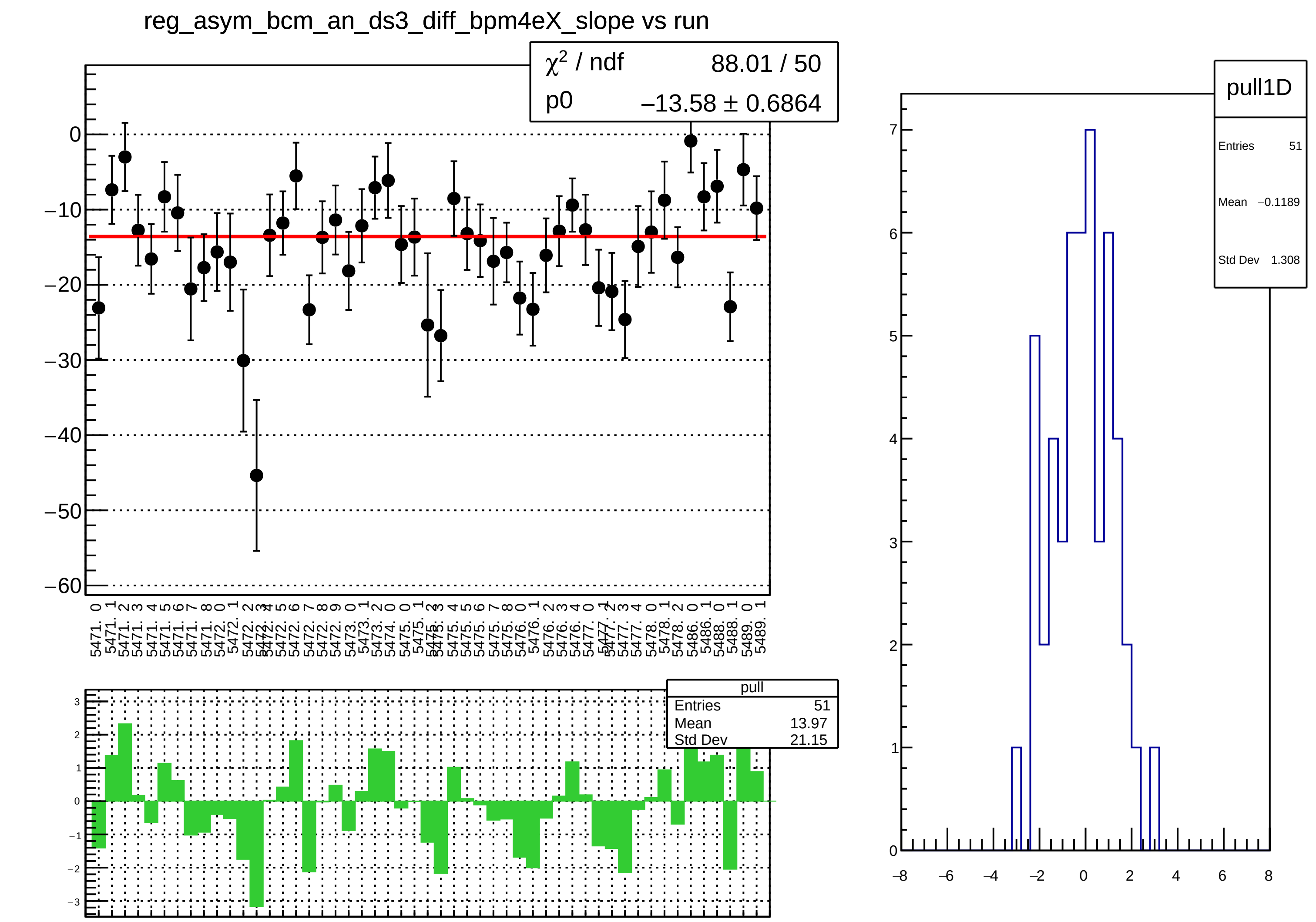
reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ2 / ndf 4.955e+04 / 50
p0 36.48 ± 0.09898
pull
Entries 51
Mean −59.81
Std Dev 90.03
pull1D
Entries 51
Mean 0.6023
Std Dev 0.8609



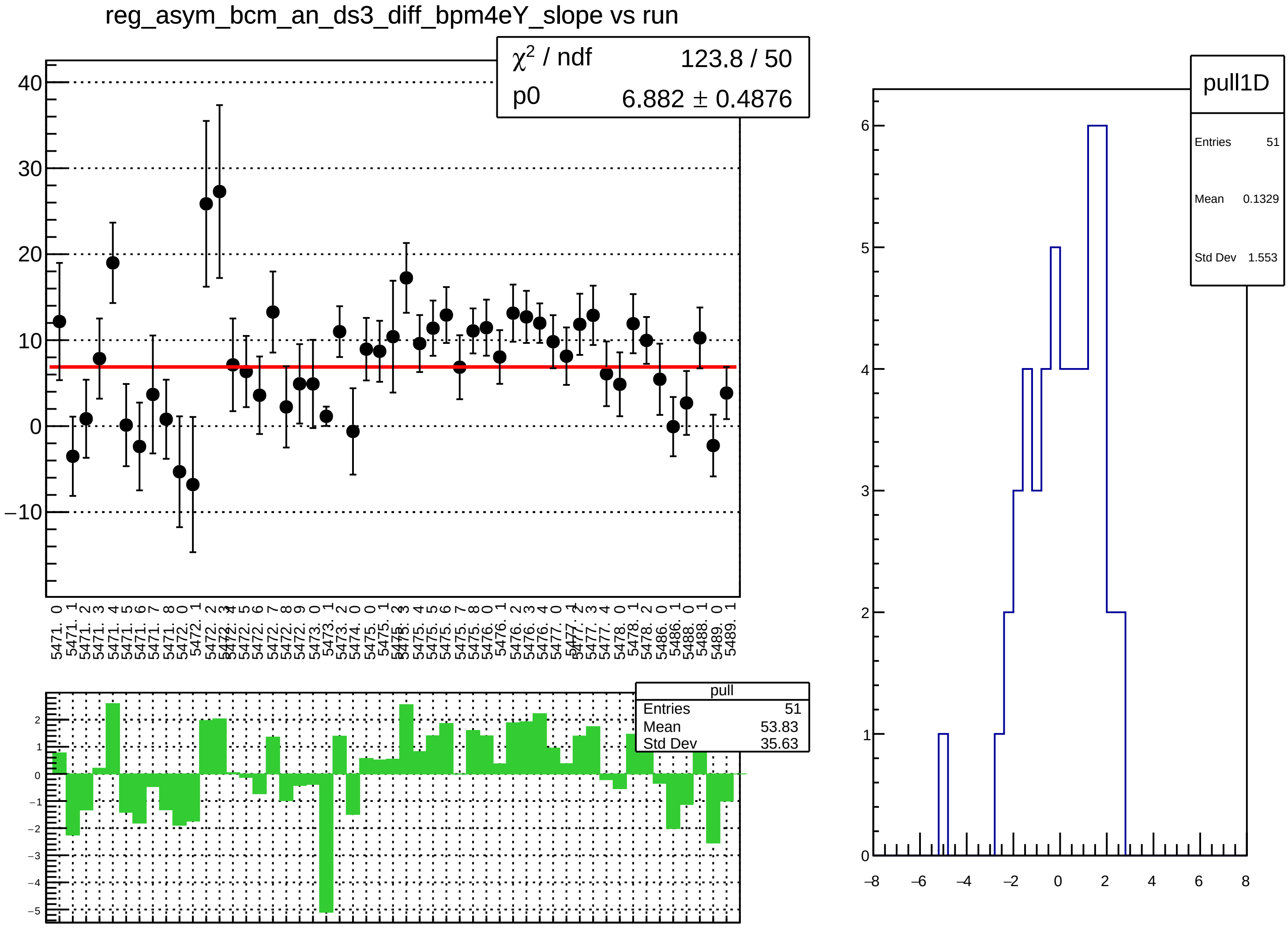
reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ^2 / ndf 87.29 / 50
p0 13.84 ± 0.709
pull
Entries 51
Mean 16.79
Std Dev 19.58
pull1D
Entries 51
Mean 0.1166
Std Dev 1.303



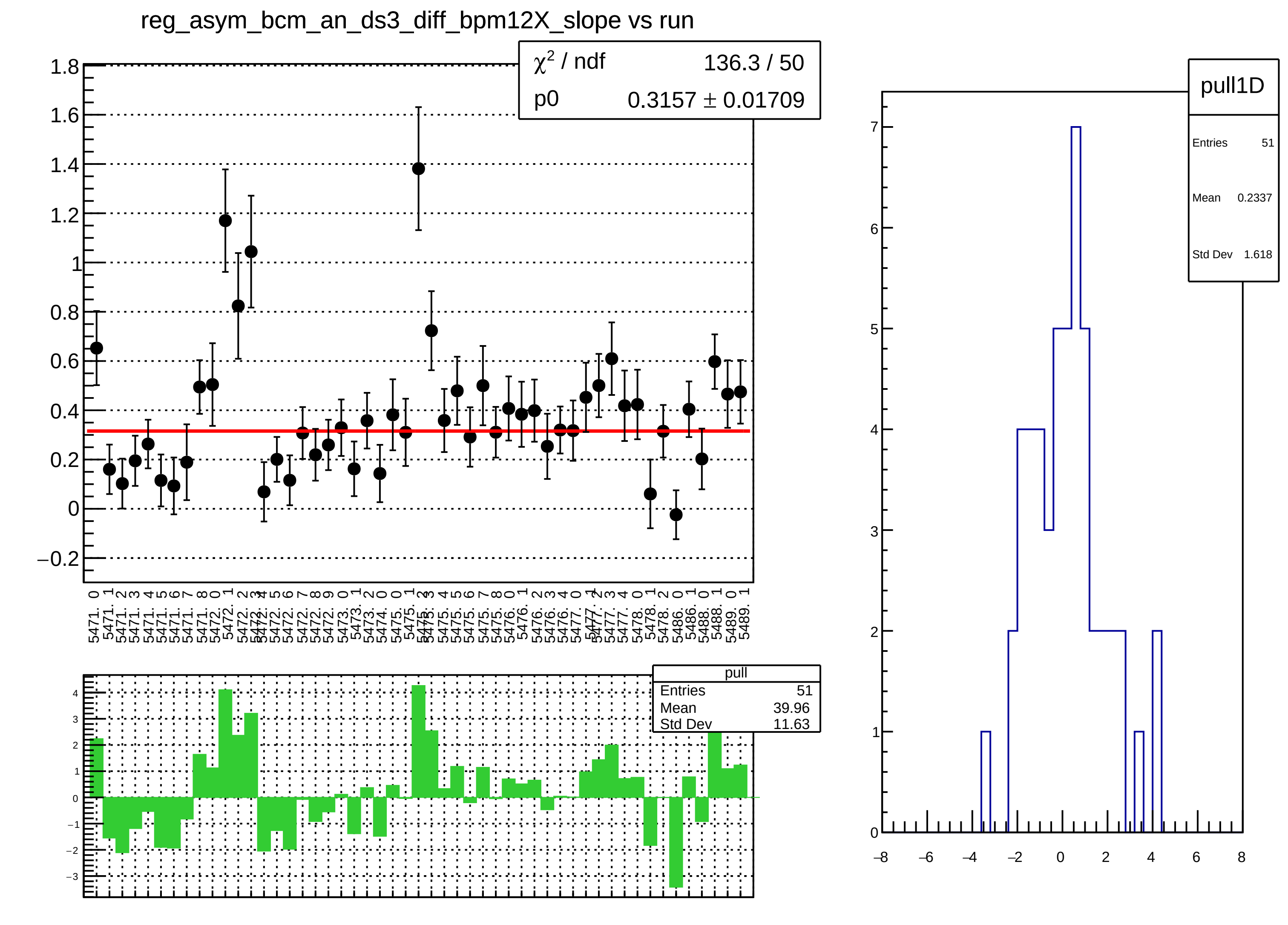
reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ^2 / ndf 113.7 / 50
p0 −4.435 ± 0.3885
pull
Entries 51
Mean 118.1
Std Dev 102.2
pull1D
Entries 51
Mean −0.04548
Std Dev 1.492



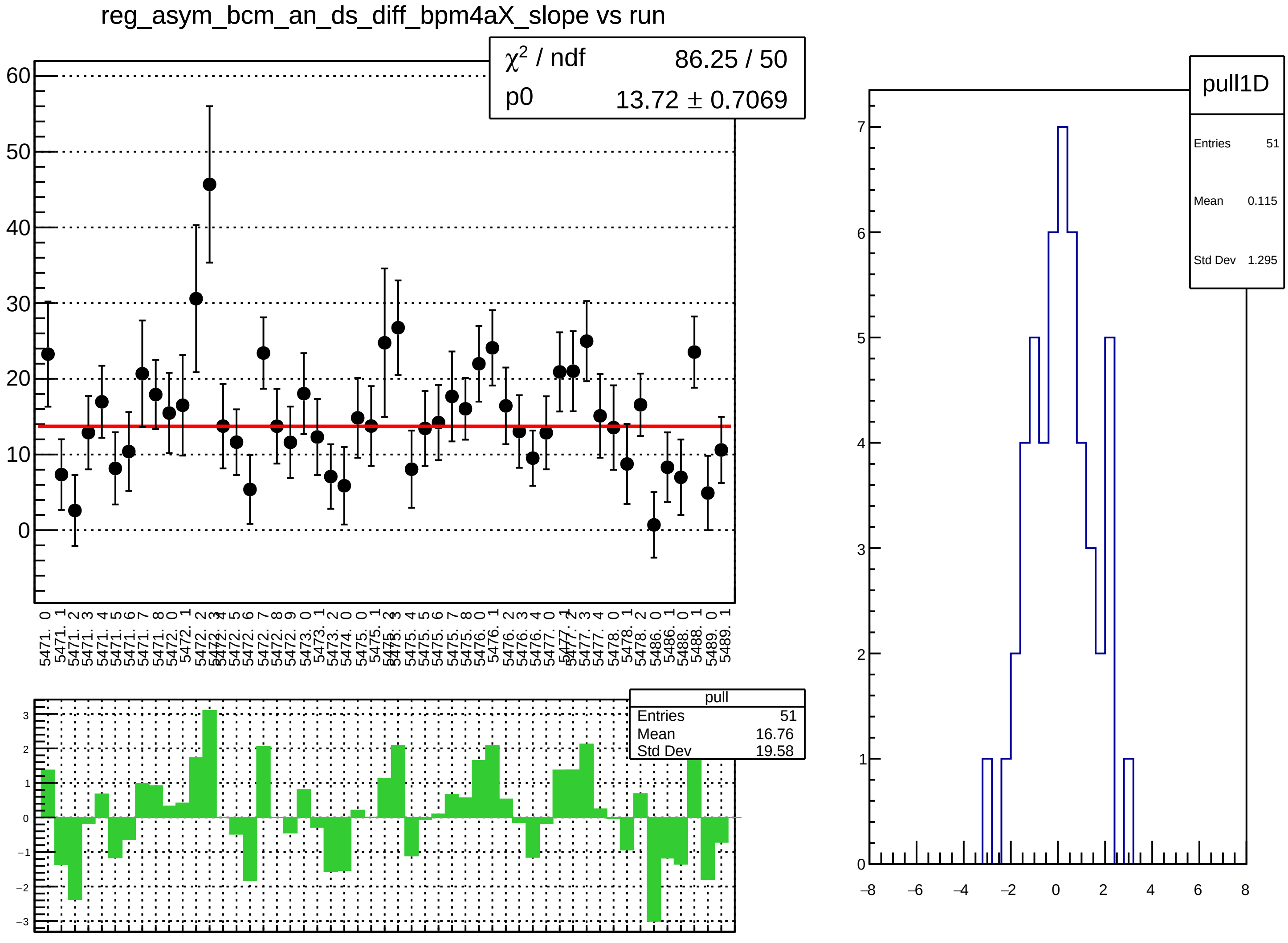
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ2 / ndf 88.01 / 50
p0 −13.58 ± 0.6864
pull
Entries 51
Mean 13.97
Std Dev 21.15
pull1D
Entries 51
Mean −0.1189
Std Dev 1.308



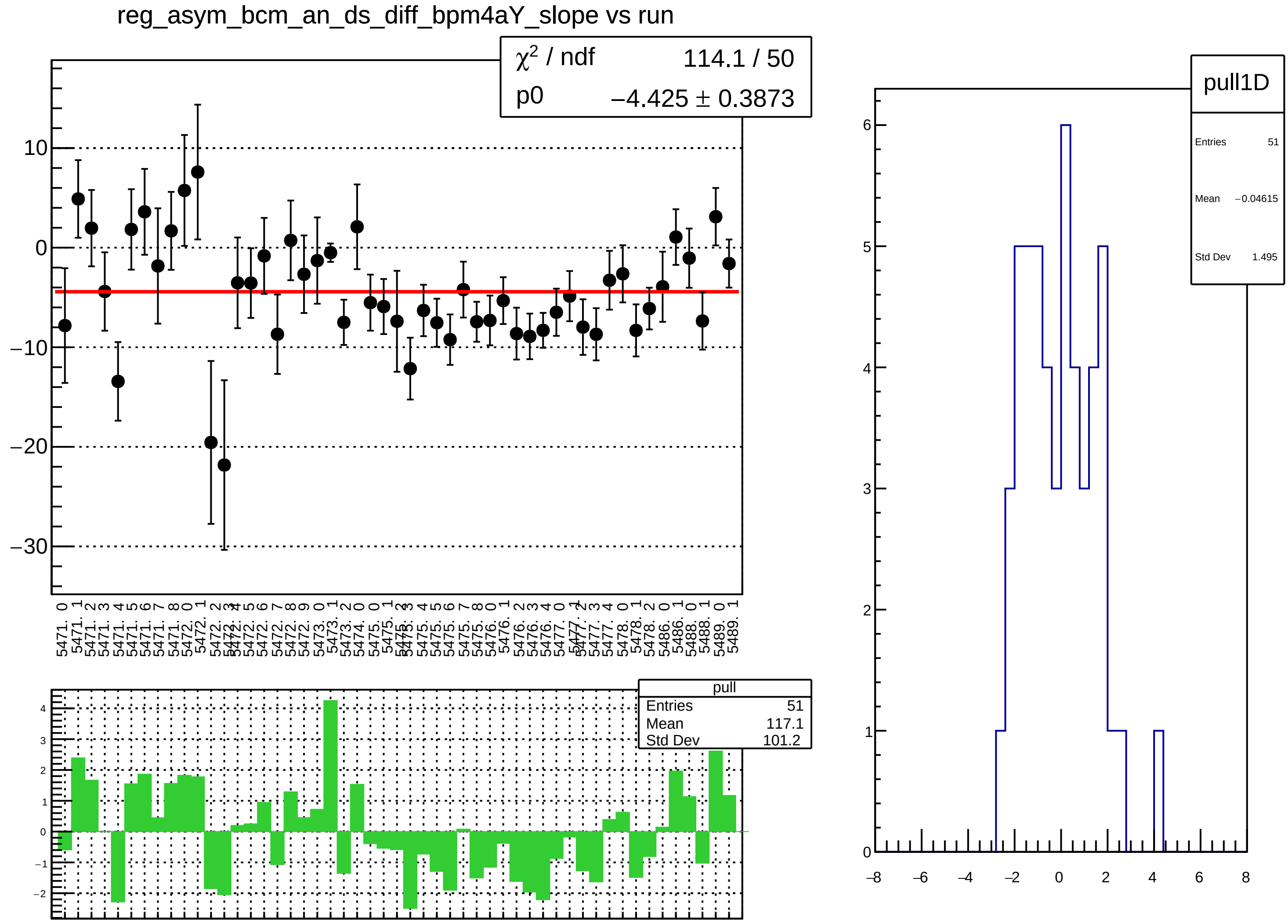
reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ2 / ndf 123.8 / 50
p0 6.882 ± 0.4876
pull
Entries 51
Mean 53.83
Std Dev 35.63
pull1D
Entries 51
Mean 0.1329
Std Dev 1.553



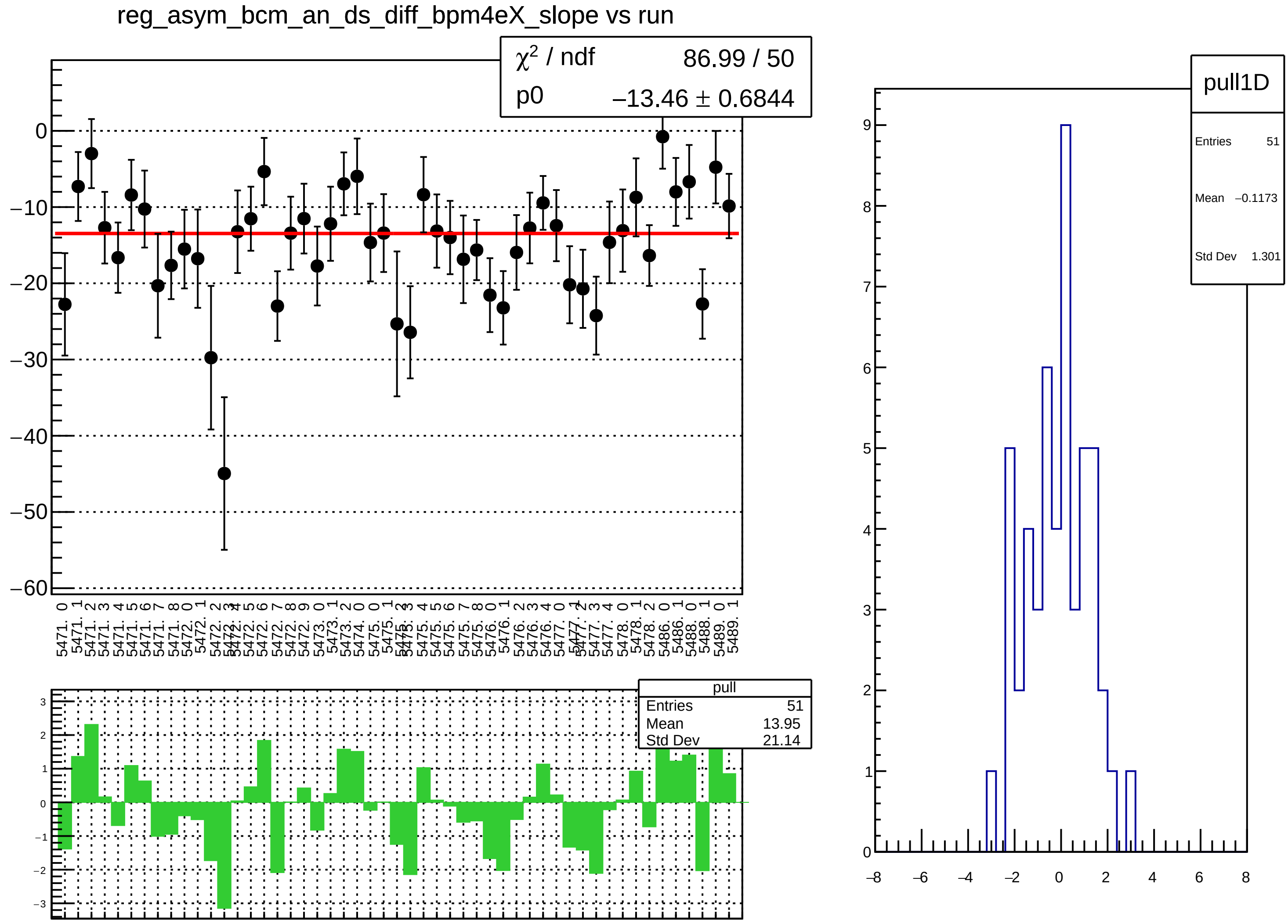
reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ2 / ndf 136.3 / 50
p0 0.3157 ± 0.01709
pull
Entries 51
Mean 39.96
Std Dev 11.63
pull1D
Entries 51
Mean 0.2337
Std Dev 1.618



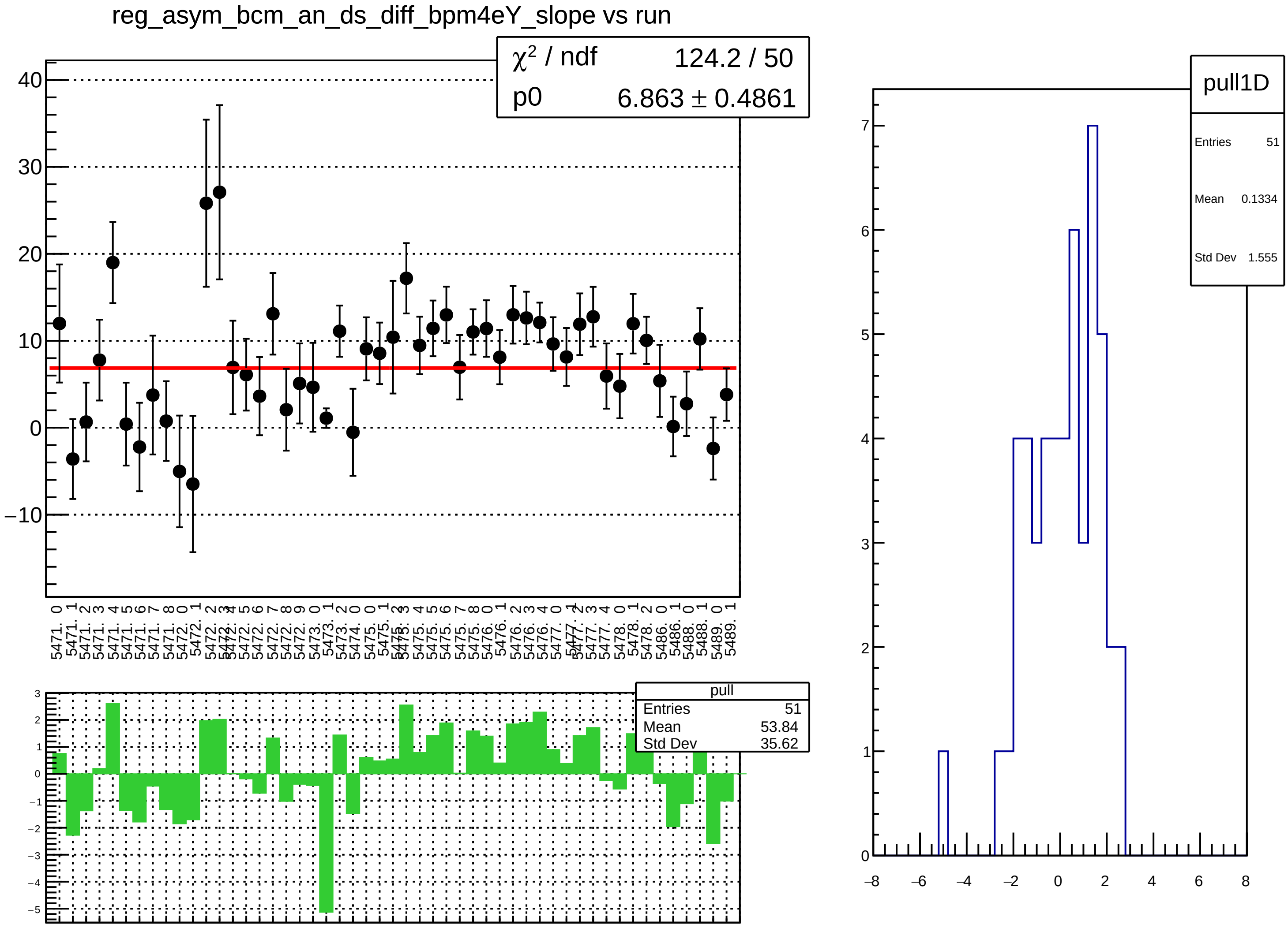
reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ^2 / ndf 86.25 / 50
p0 13.72 ± 0.7069
pull
Entries 51
Mean 16.76
Std Dev 19.58
pull1D
Entries 51
Mean 0.115
Std Dev 1.295



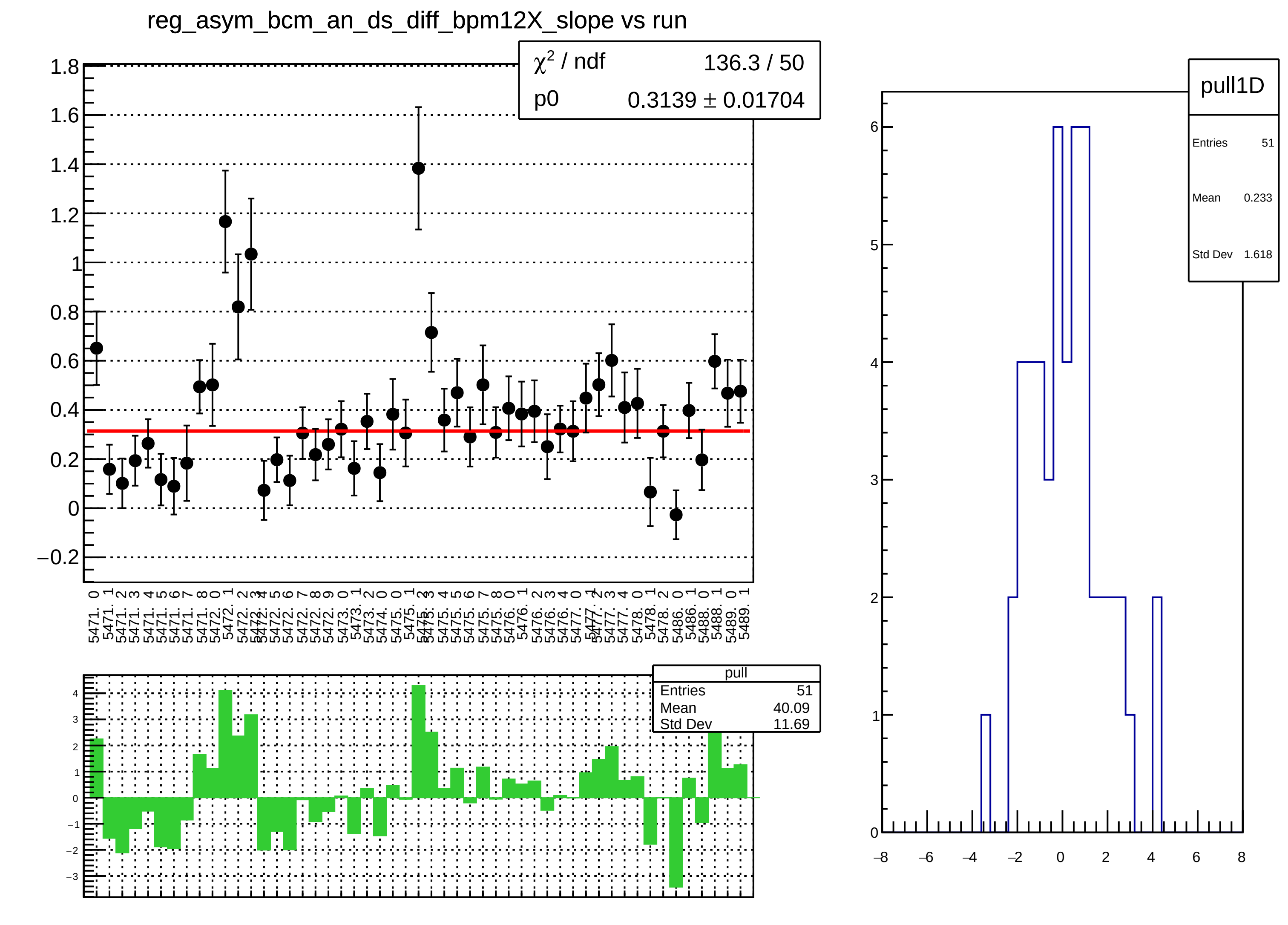
reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ^2 / ndf 114.1 / 50
p0 −4.425 ± 0.3873
pull
Entries 51
Mean 117.1
Std Dev 101.2
pull1D
Entries 51
Mean −0.04615
Std Dev 1.495



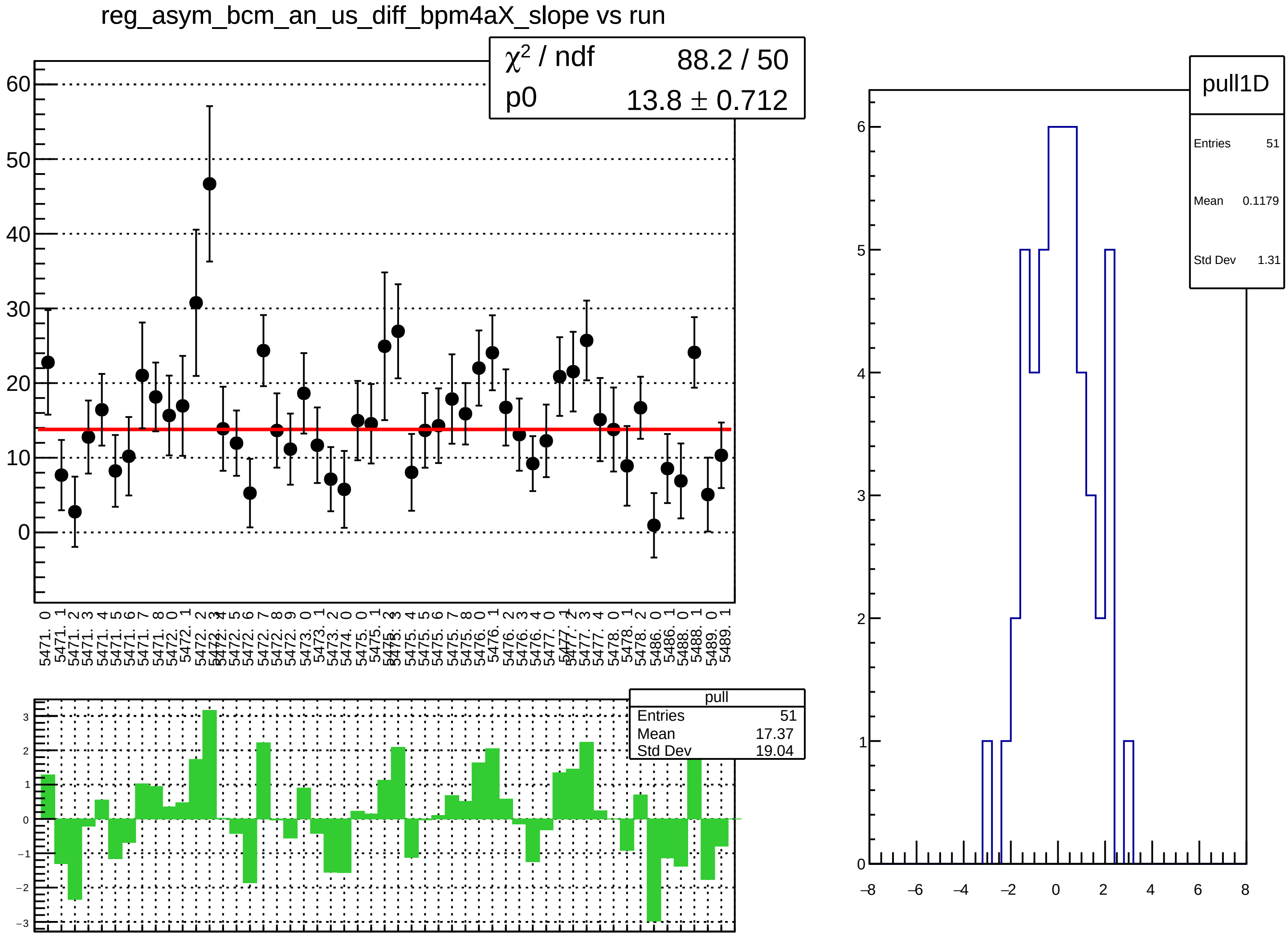
reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ^2 / ndf 86.99 / 50
p0 −13.46 ± 0.6844
pull
Entries 51
Mean 13.95
Std Dev 21.14
pull1D
Entries 51
Mean −0.1173
Std Dev 1.301



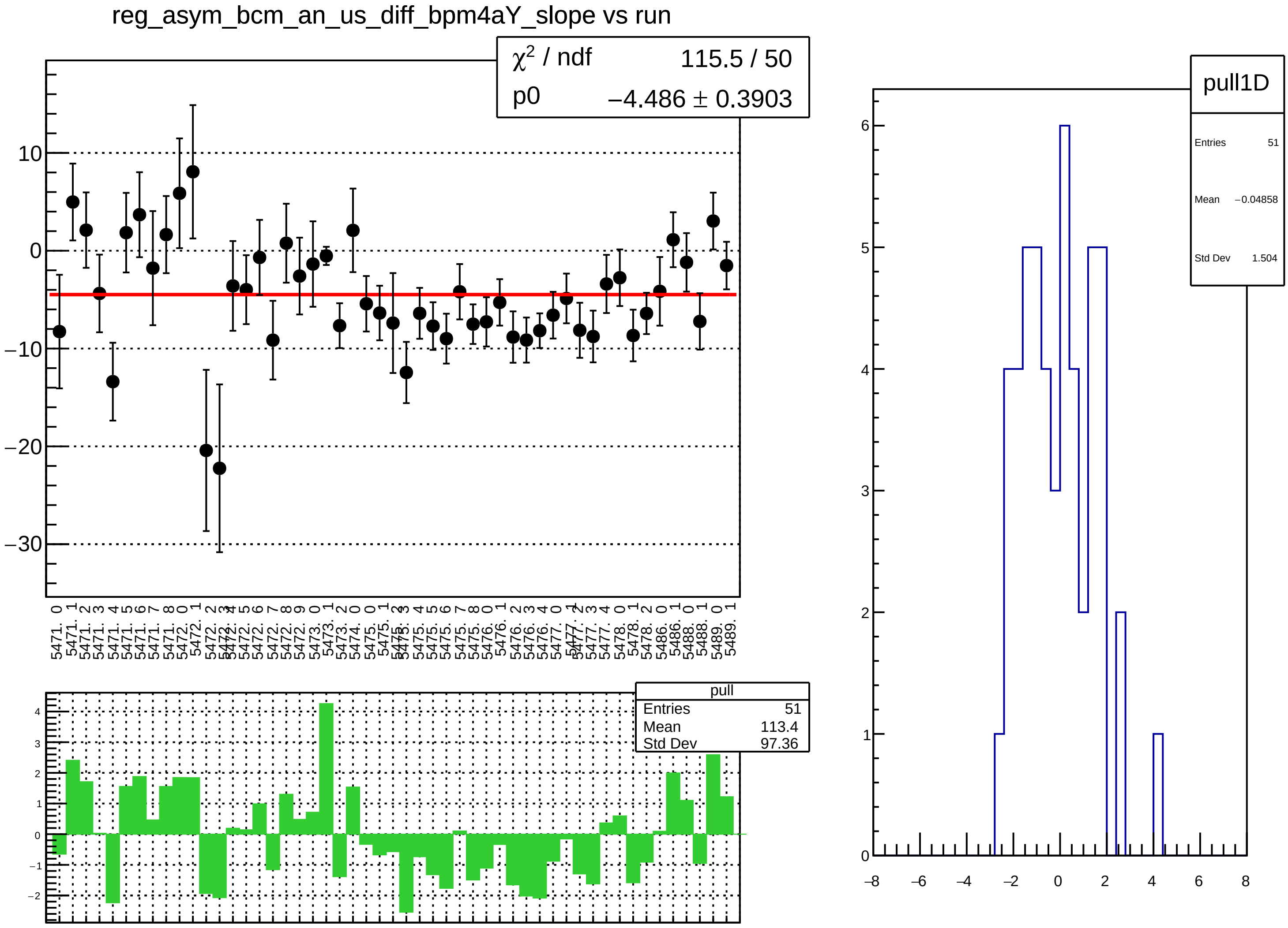
reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ^2 / ndf 124.2 / 50
p0 6.863 ± 0.4861
pull
Entries 51
Mean 53.84
Std Dev 35.62
pull1D
Entries 51
Mean 0.1334
Std Dev 1.555



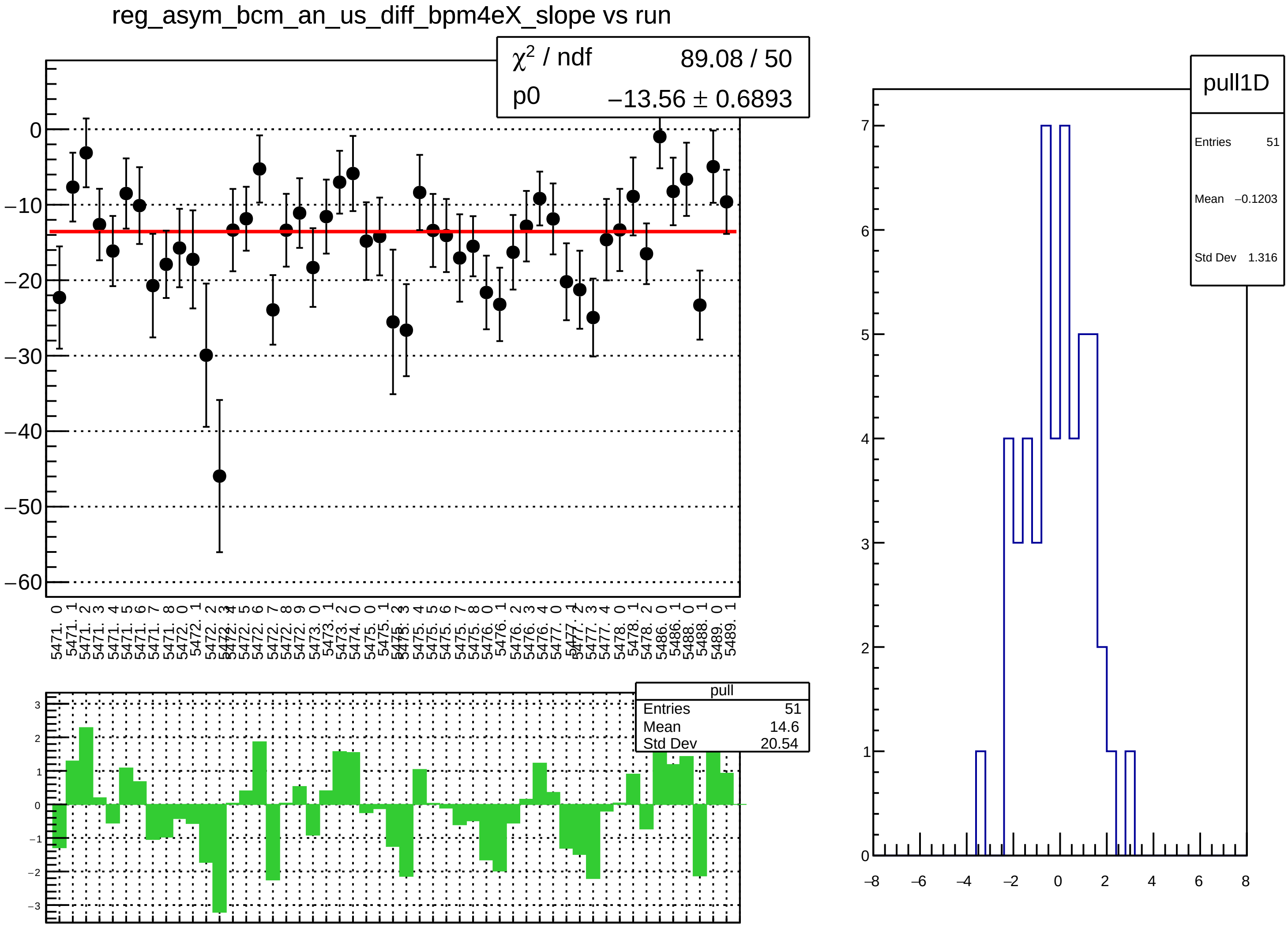
reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ^2 / ndf 136.3 / 50
p0 0.3139 ± 0.01704
pull
Entries 51
Mean 40.09
Std Dev 11.69
pull1D
Entries 51
Mean 0.233
Std Dev 1.618



reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ2 / ndf 88.2 / 50
p0 13.8 ± 0.712
pull
Entries 51
Mean 17.37
Std Dev 19.04
pull1D
Entries 51
Mean 0.1179
Std Dev 1.31

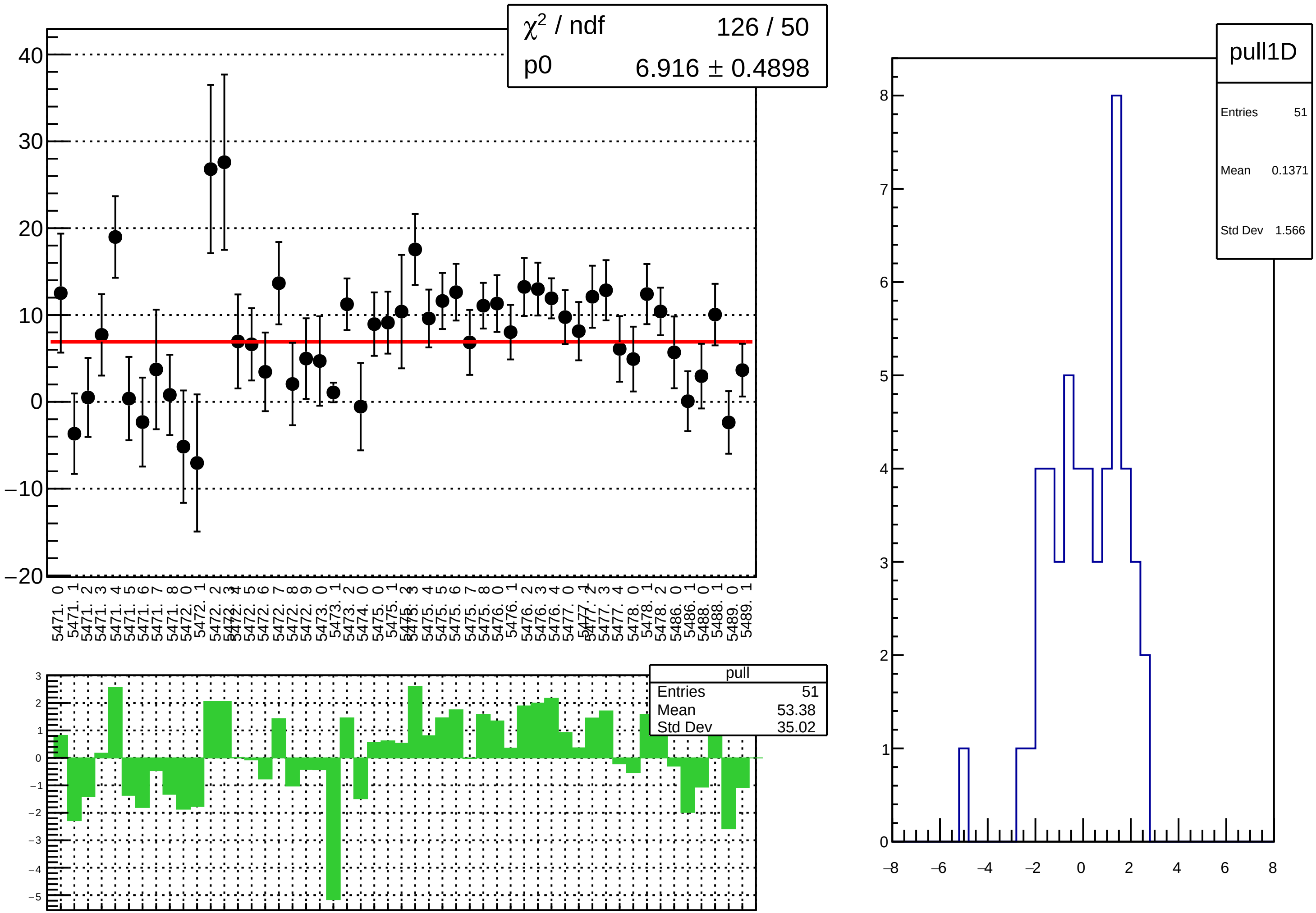


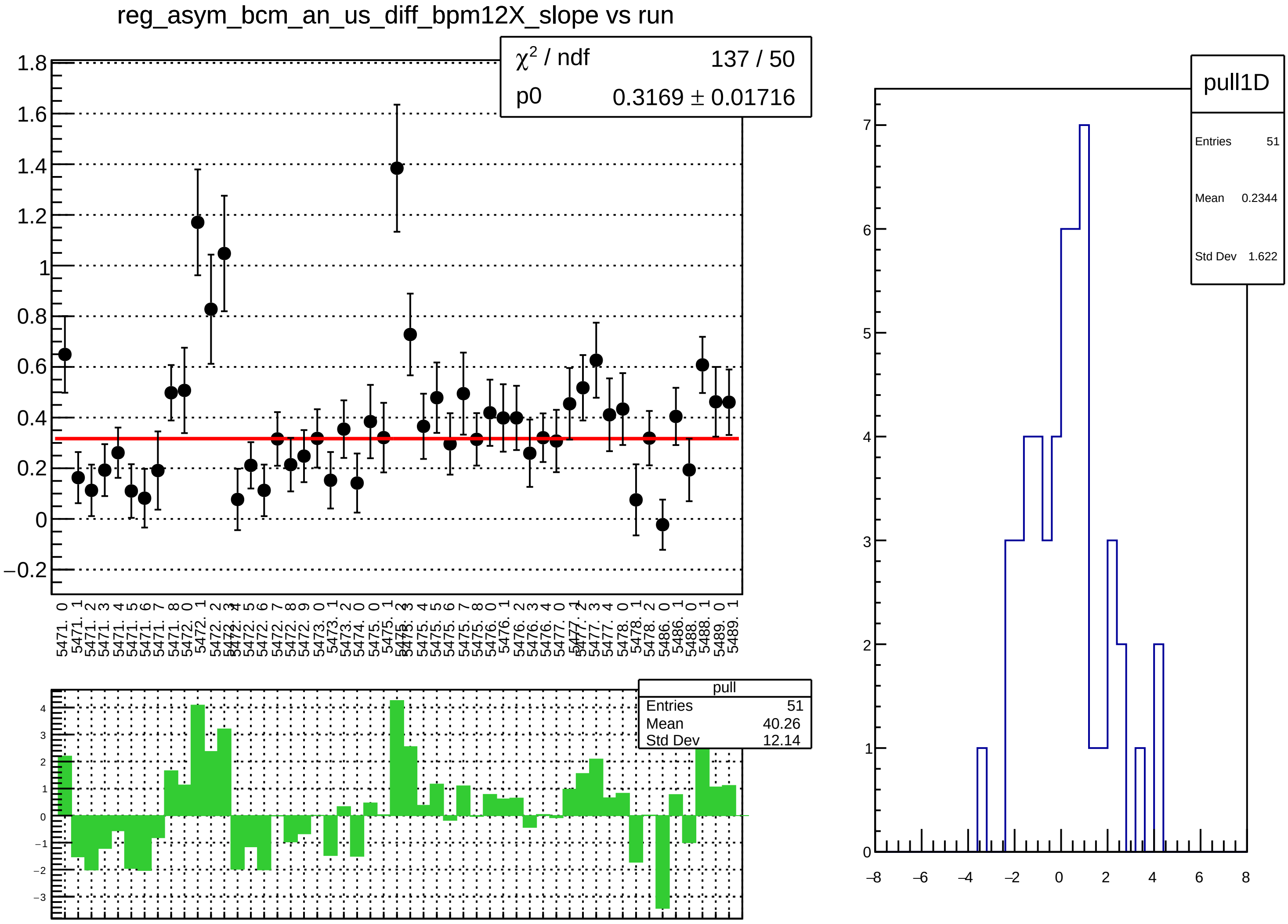
reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ^2 / ndf 115.5 / 50
p0 −4.486 ± 0.3903
pull
Entries 51
Mean 113.4
Std Dev 97.36
pull1D
Entries 51
Mean −0.04858
Std Dev 1.504



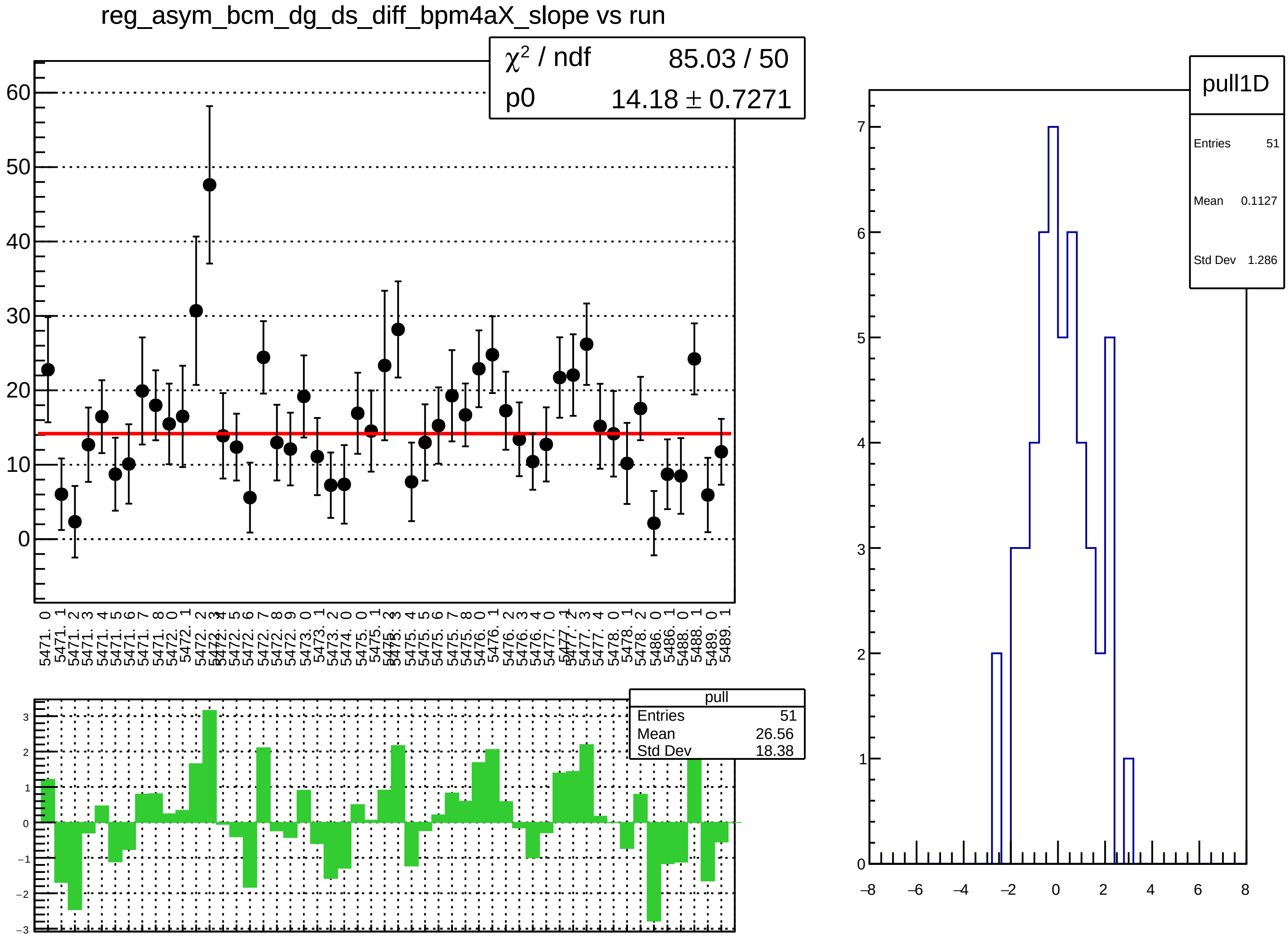
reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ^2 / ndf 89.08 / 50
p0 −13.56 ± 0.6893
pull
Entries 51
Mean 14.6
Std Dev 20.54
pull1D
Entries 51
Mean −0.1203
Std Dev 1.316

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run

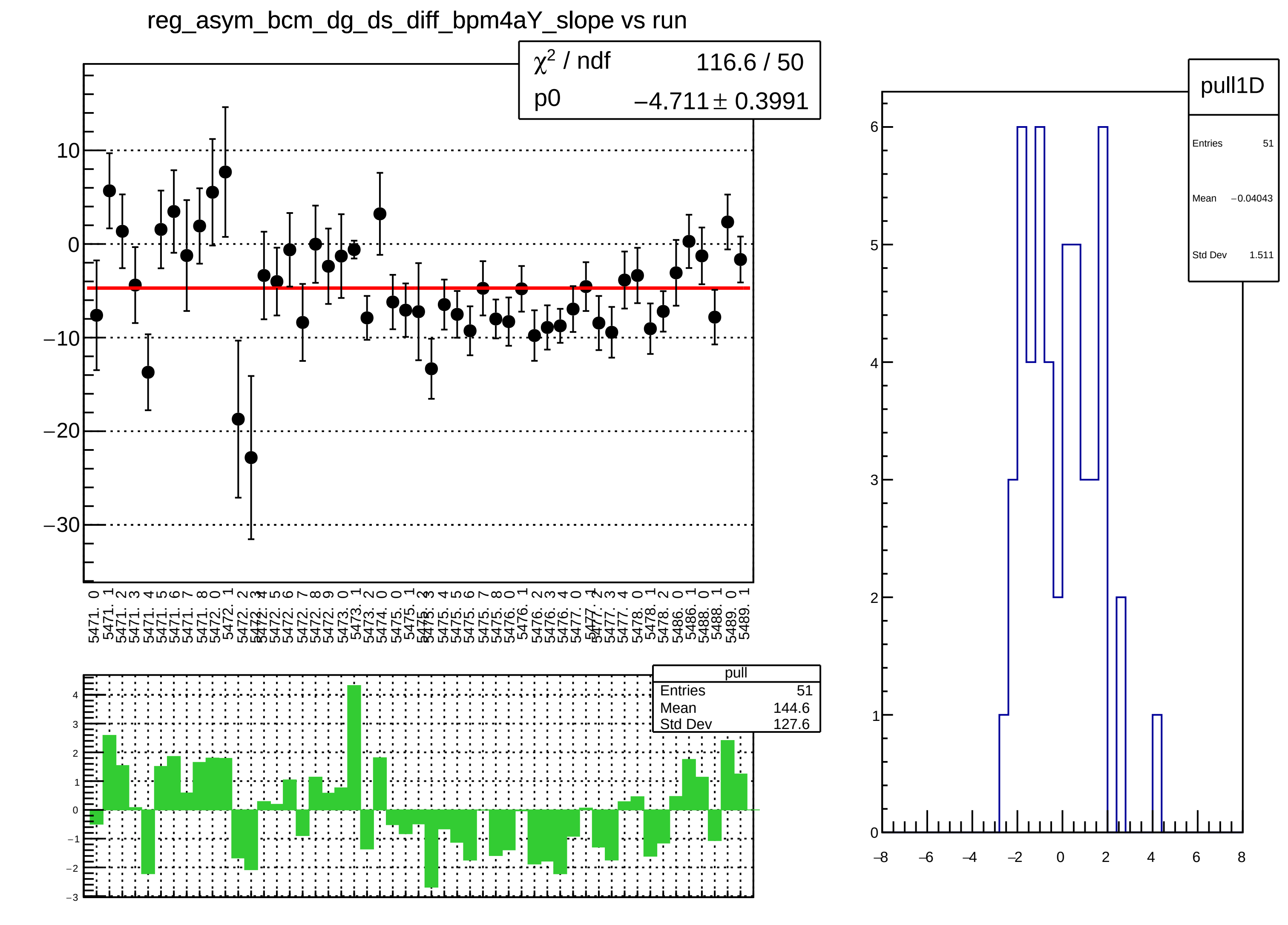




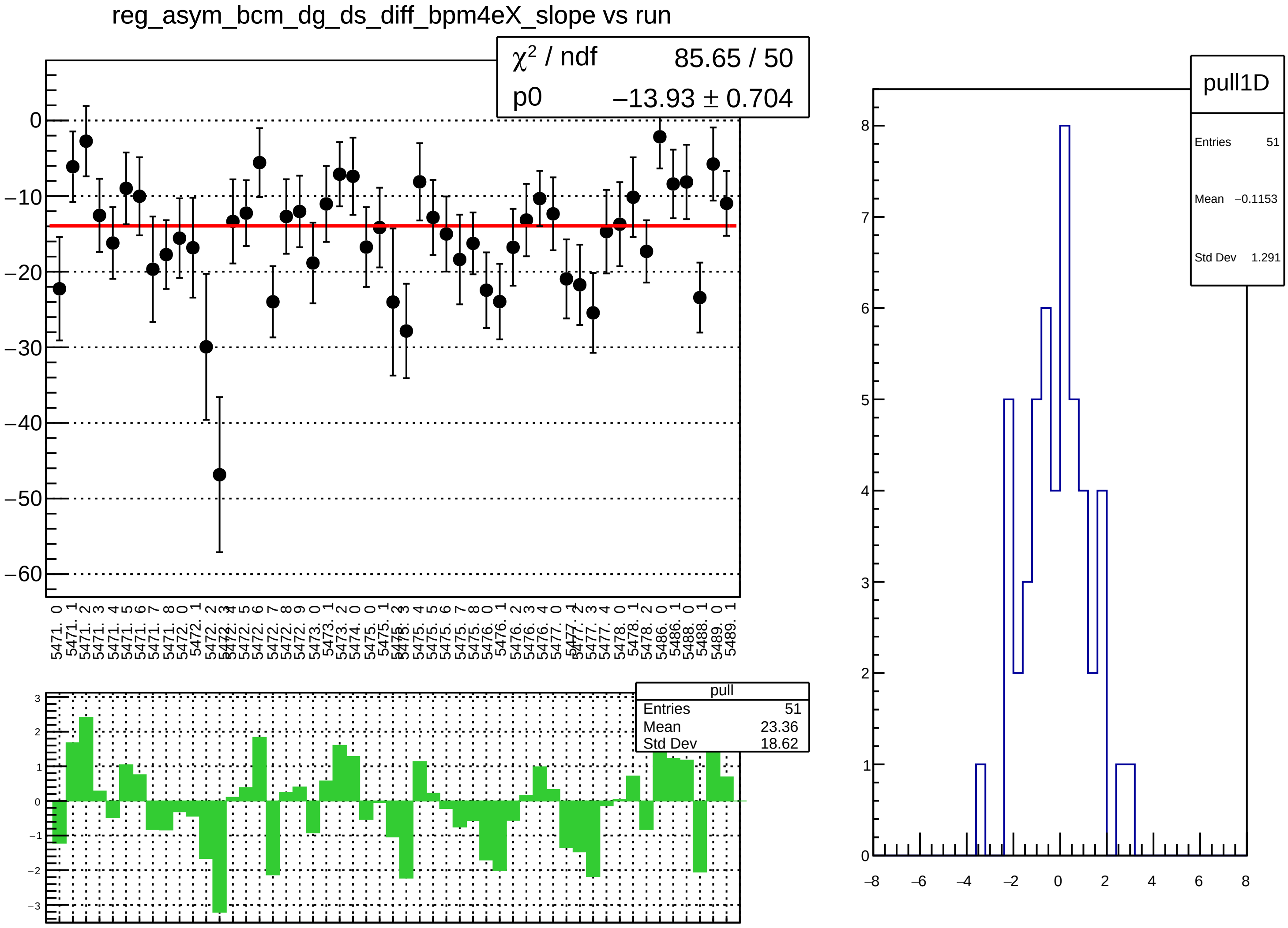
reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ2 / ndf 137 / 50
p0 0.3169 ± 0.01716
pull
Entries 51
Mean 40.26
Std Dev 12.14
pull1D
Entries 51
Mean 0.2344
Std Dev 1.622

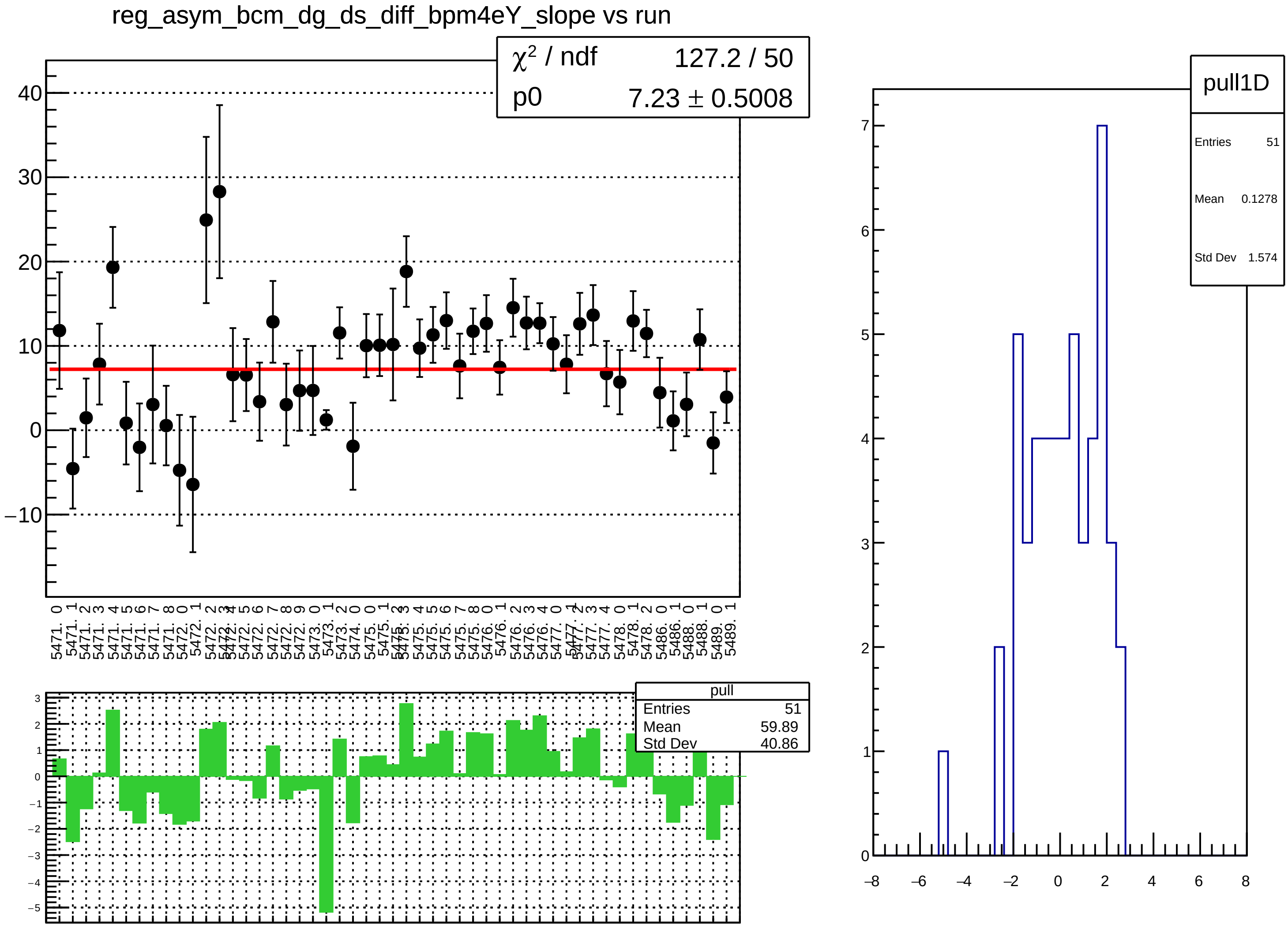


reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ^2 / ndf 85.03 / 50
p0 14.18 ± 0.7271
pull
Entries 51
Mean 26.56
Std Dev 18.38
pull1D
Entries 51
Mean 0.1127
Std Dev 1.286

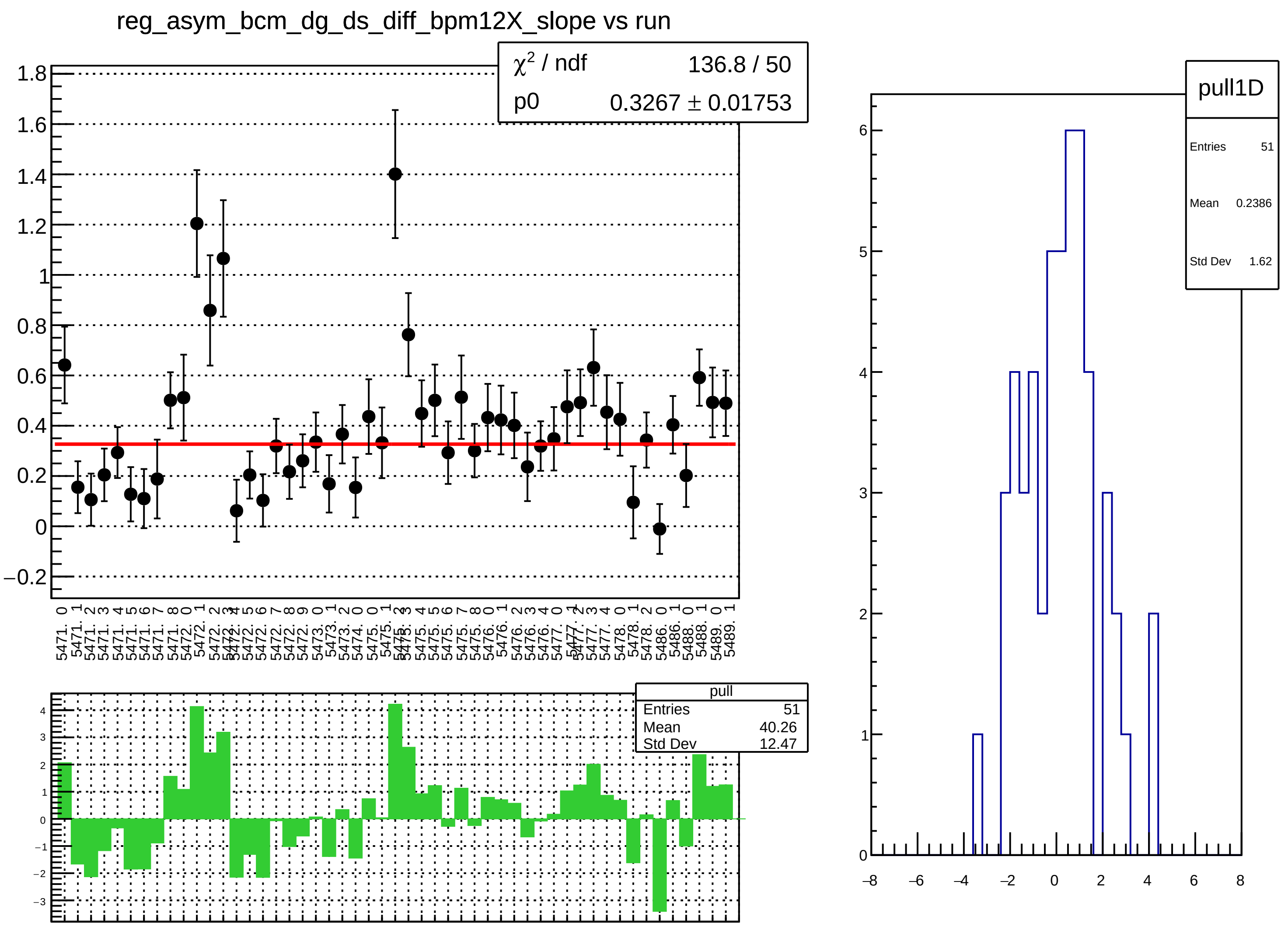


reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ^2 / ndf 116.6 / 50
p0 −4.711 ± 0.3991
pull
Entries 51
Mean 144.6
Std Dev 127.6
pull1D
Entries 51
Mean −0.04043
Std Dev 1.511

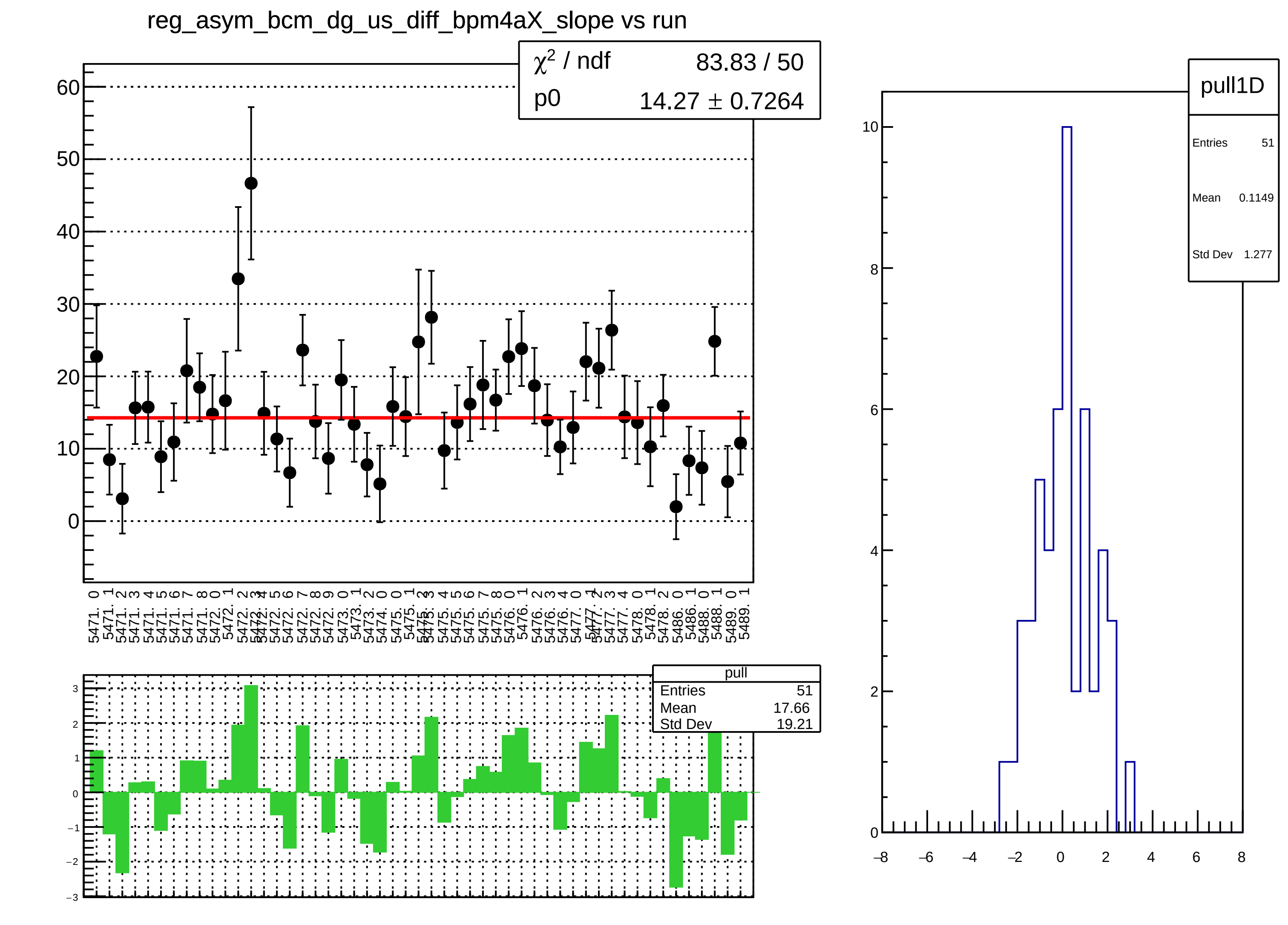

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ^2 / ndf 85.65 / 50
p0 −13.93 ± 0.704
pull
Entries 51
Mean 23.36
Std Dev 18.62
pull1D
Entries 51
Mean −0.1153
Std Dev 1.291



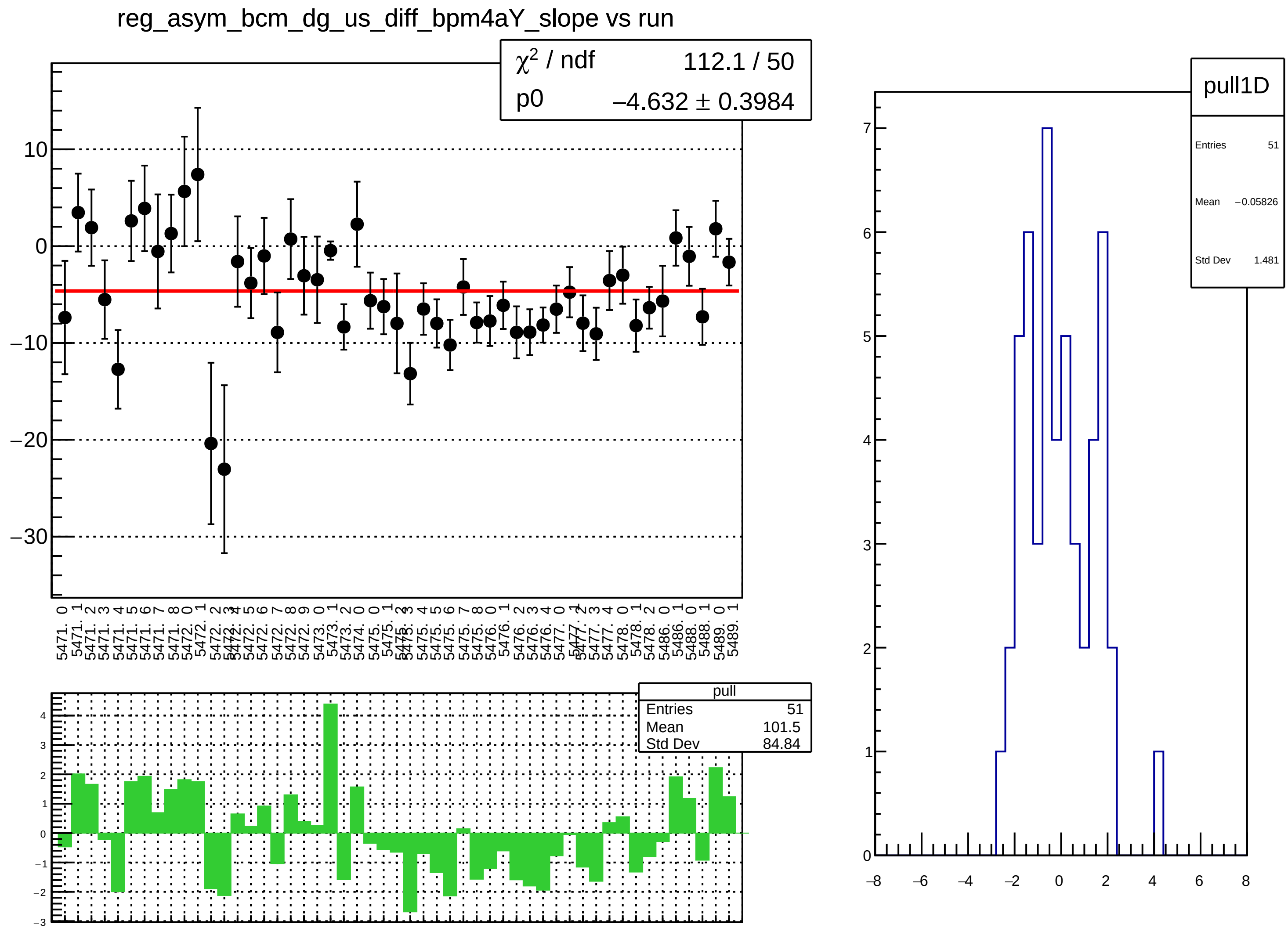
reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ^2 / ndf 127.2 / 50
p0 7.23 ± 0.5008
pull
Entries 51
Mean 59.89
Std Dev 40.86
pull1D
Entries 51
Mean 0.1278
Std Dev 1.574

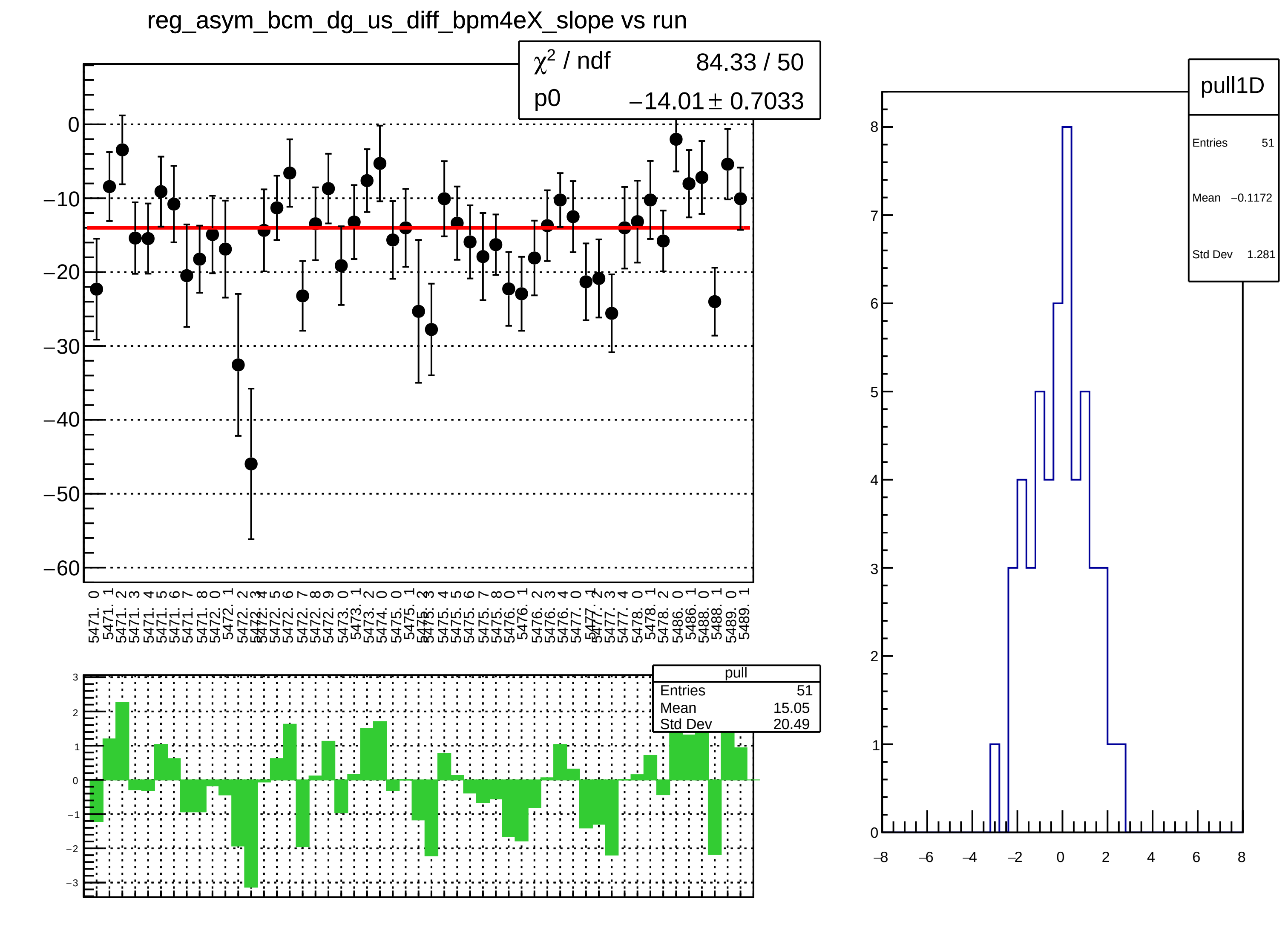


reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ^2 / ndf 136.8 / 50
p0 0.3267 ± 0.01753
pull
Entries 51
Mean 40.26
Std Dev 12.47
pull1D
Entries 51
Mean 0.2386
Std Dev 1.62

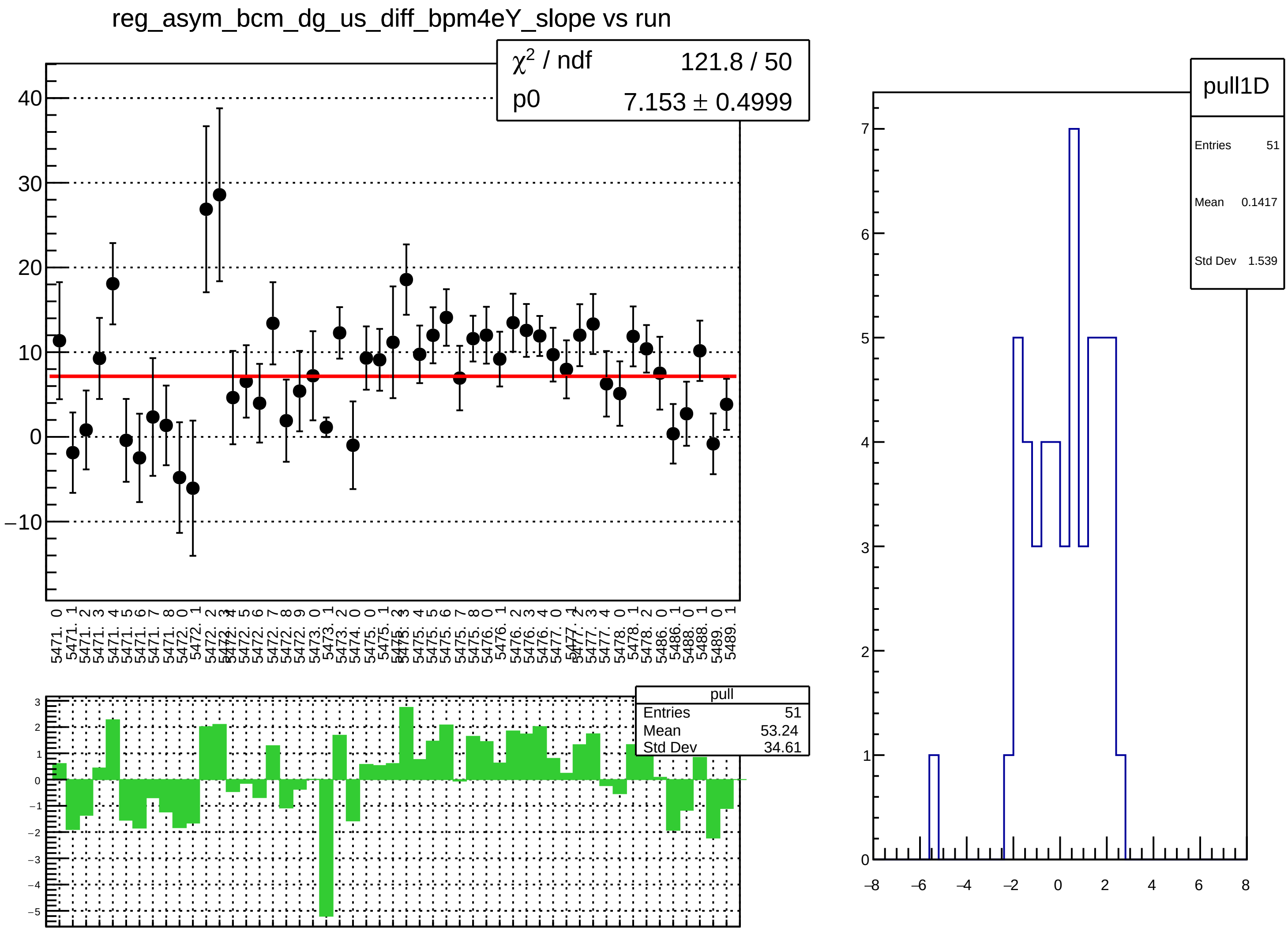


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ^2 / ndf 83.83 / 50
p0 14.27 ± 0.7264
pull
Entries 51
Mean 17.66
Std Dev 19.21
pull1D
Entries 51
Mean 0.1149
Std Dev 1.277

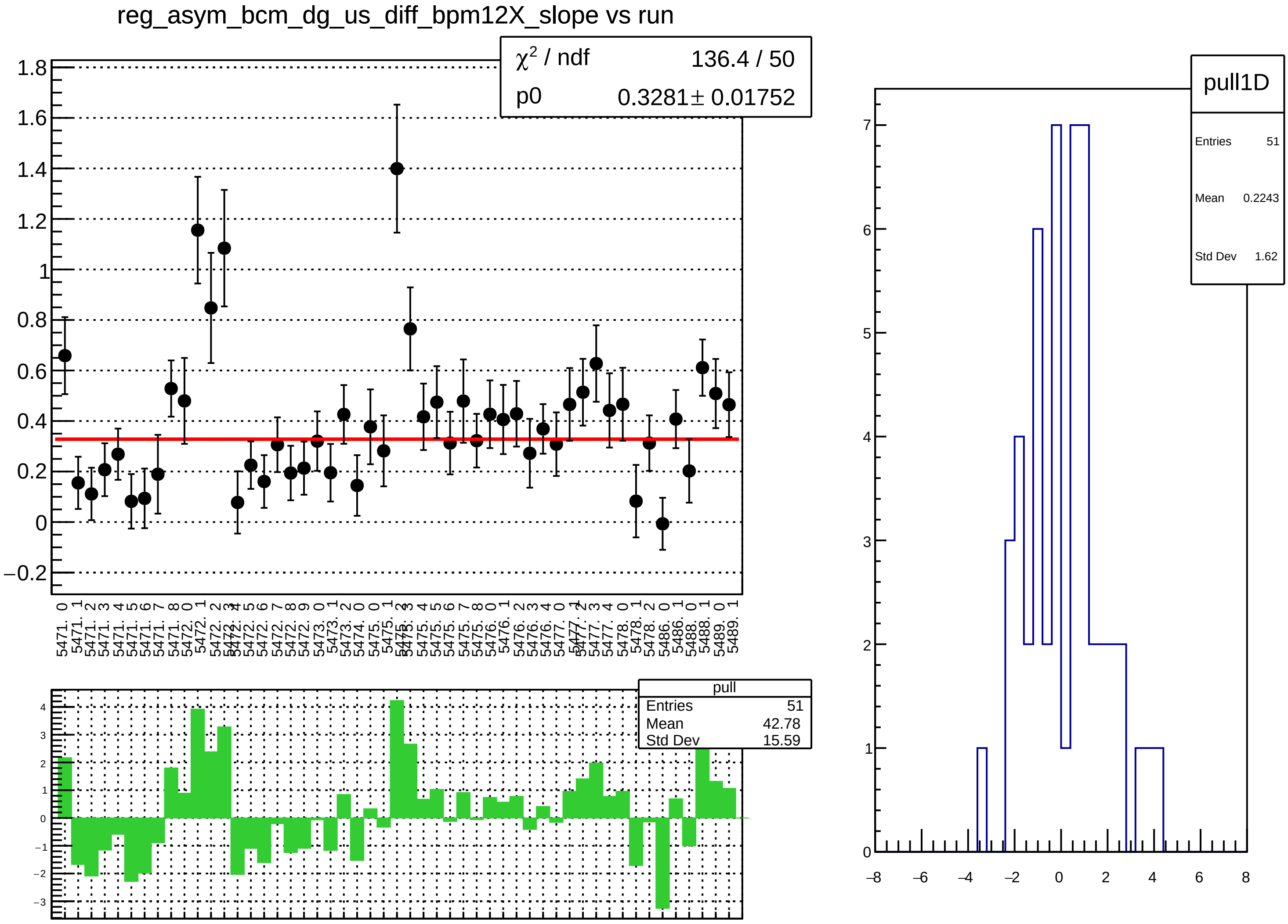

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ2 / ndf 112.1 / 50
p0 −4.632 ± 0.3984
pull
Entries 51
Mean 101.5
Std Dev 84.84
pull1D
Entries 51
Mean −0.05826
Std Dev 1.481



reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ2 / ndf 84.33 / 50
p0 −14.01 ± 0.7033
pull
Entries 51
Mean 15.05
Std Dev 20.49
pull1D
Entries 51
Mean −0.1172
Std Dev 1.281



reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ^2 / ndf 121.8 / 50
p0 7.153 ± 0.4999
pull
Entries 51
Mean 53.24
Std Dev 34.61
pull1D
Entries 51
Mean 0.1417
Std Dev 1.539



reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ^2 / ndf 136.4 / 50
p0 0.3281± 0.01752
pull
Entries 51
Mean 42.78
Std Dev 15.59
pull1D
Entries 51
Mean 0.2243
Std Dev 1.62