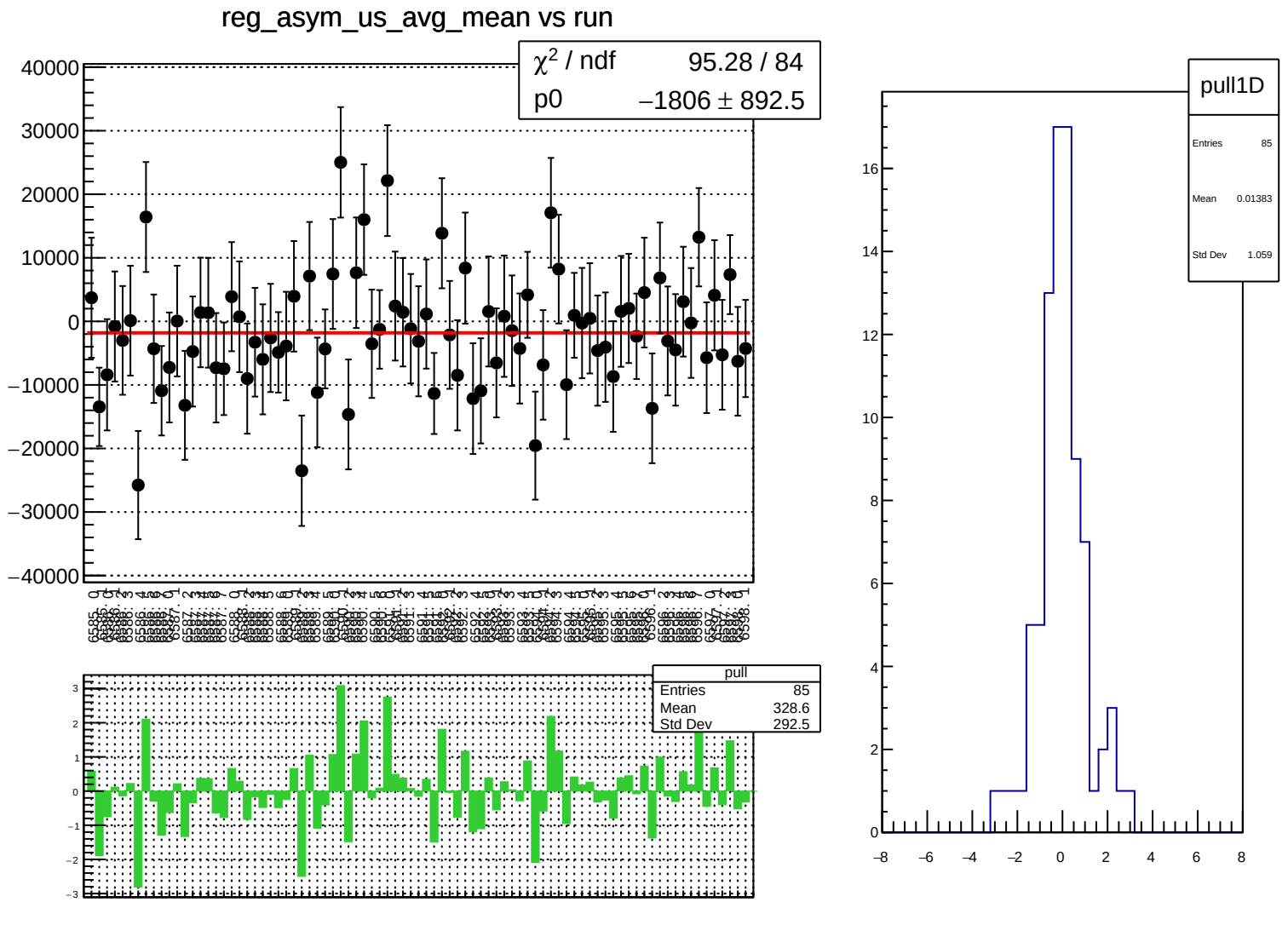
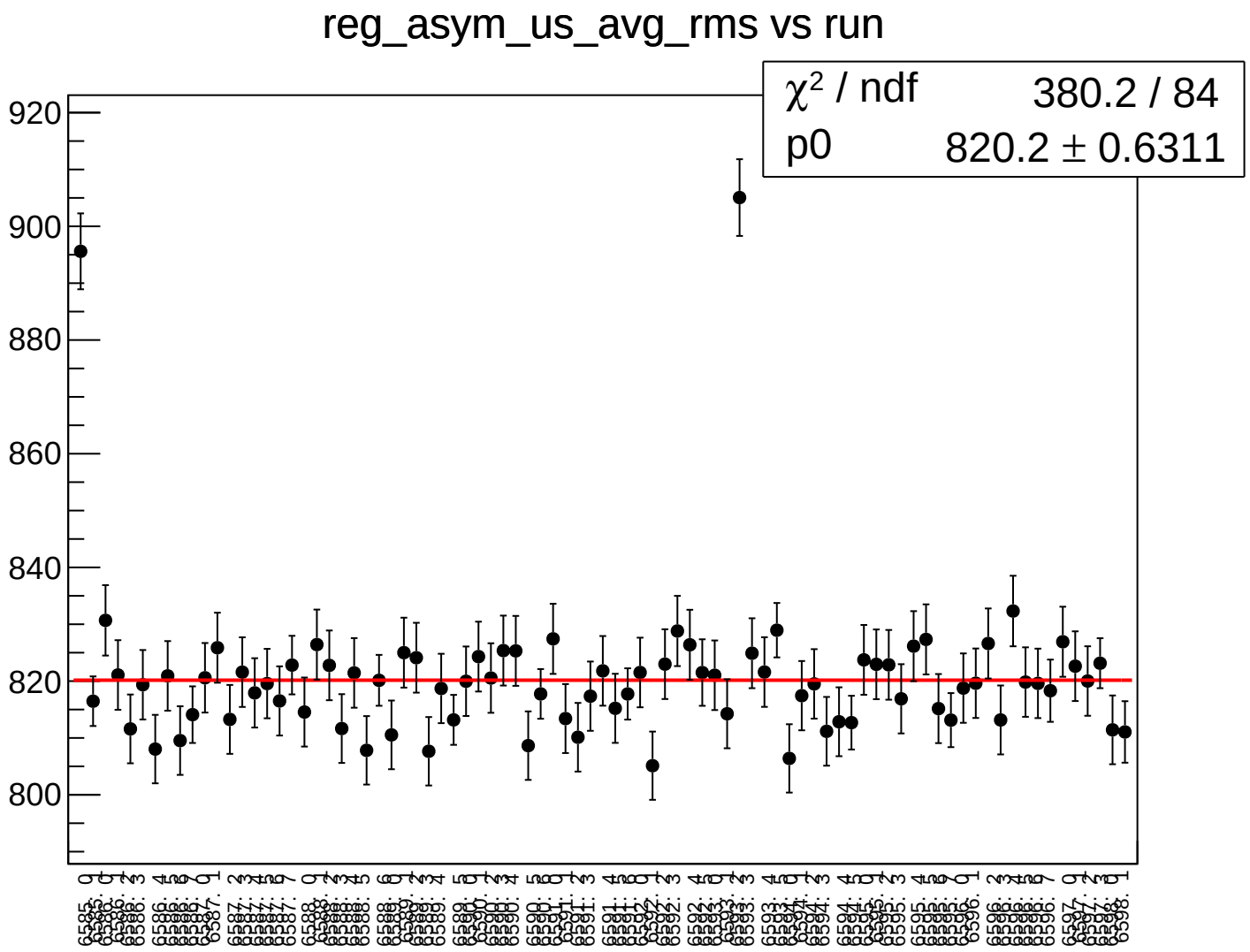
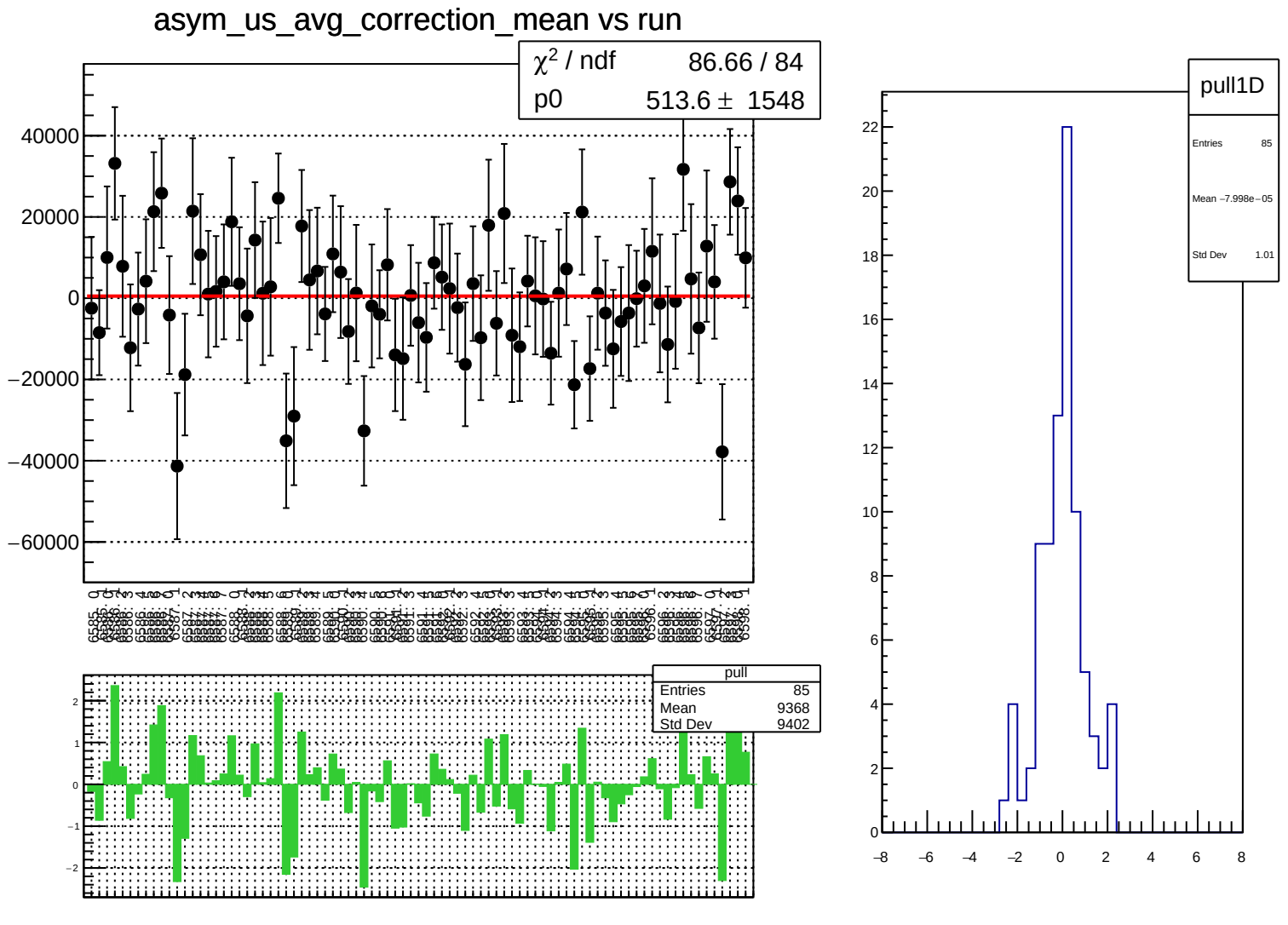
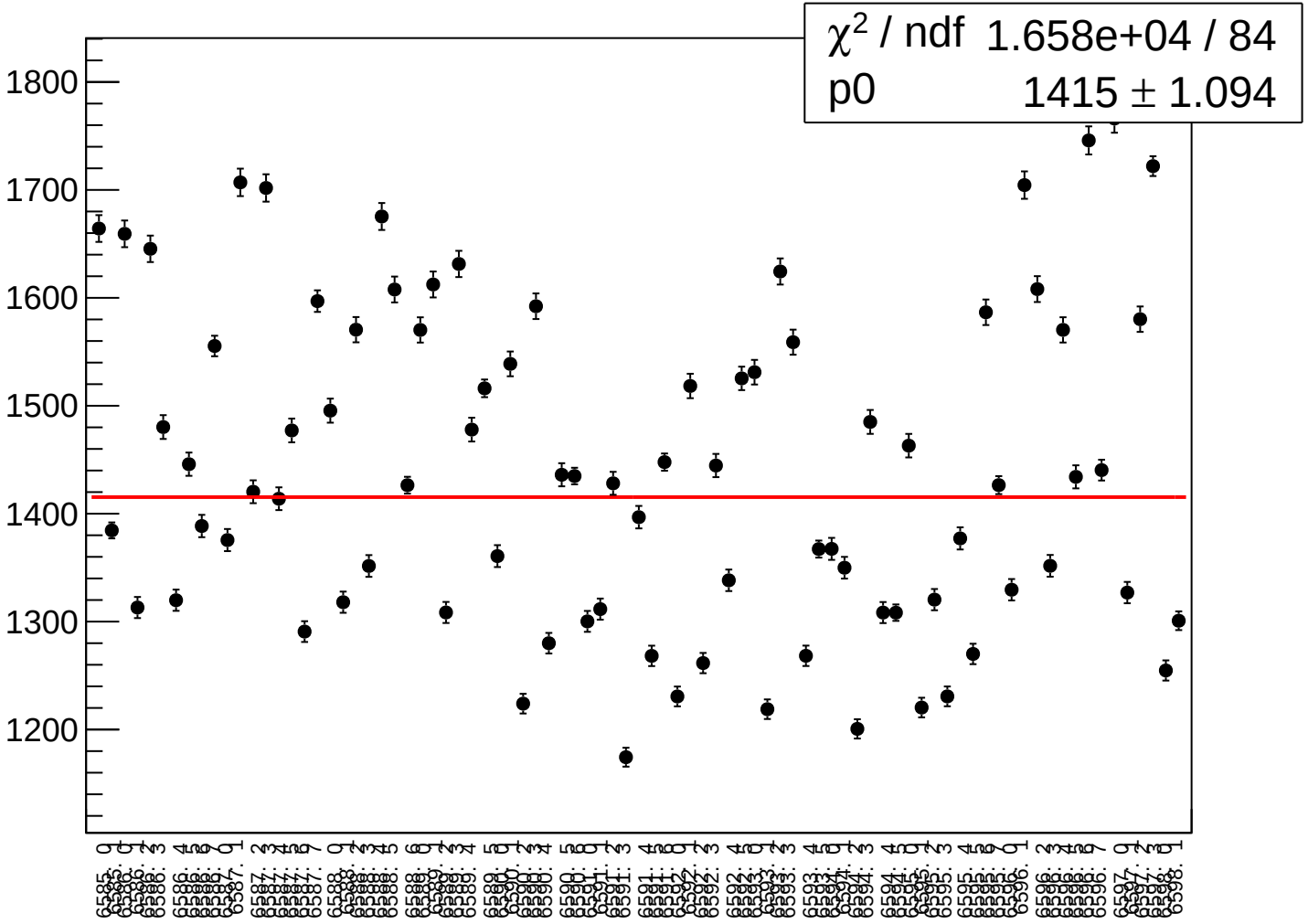
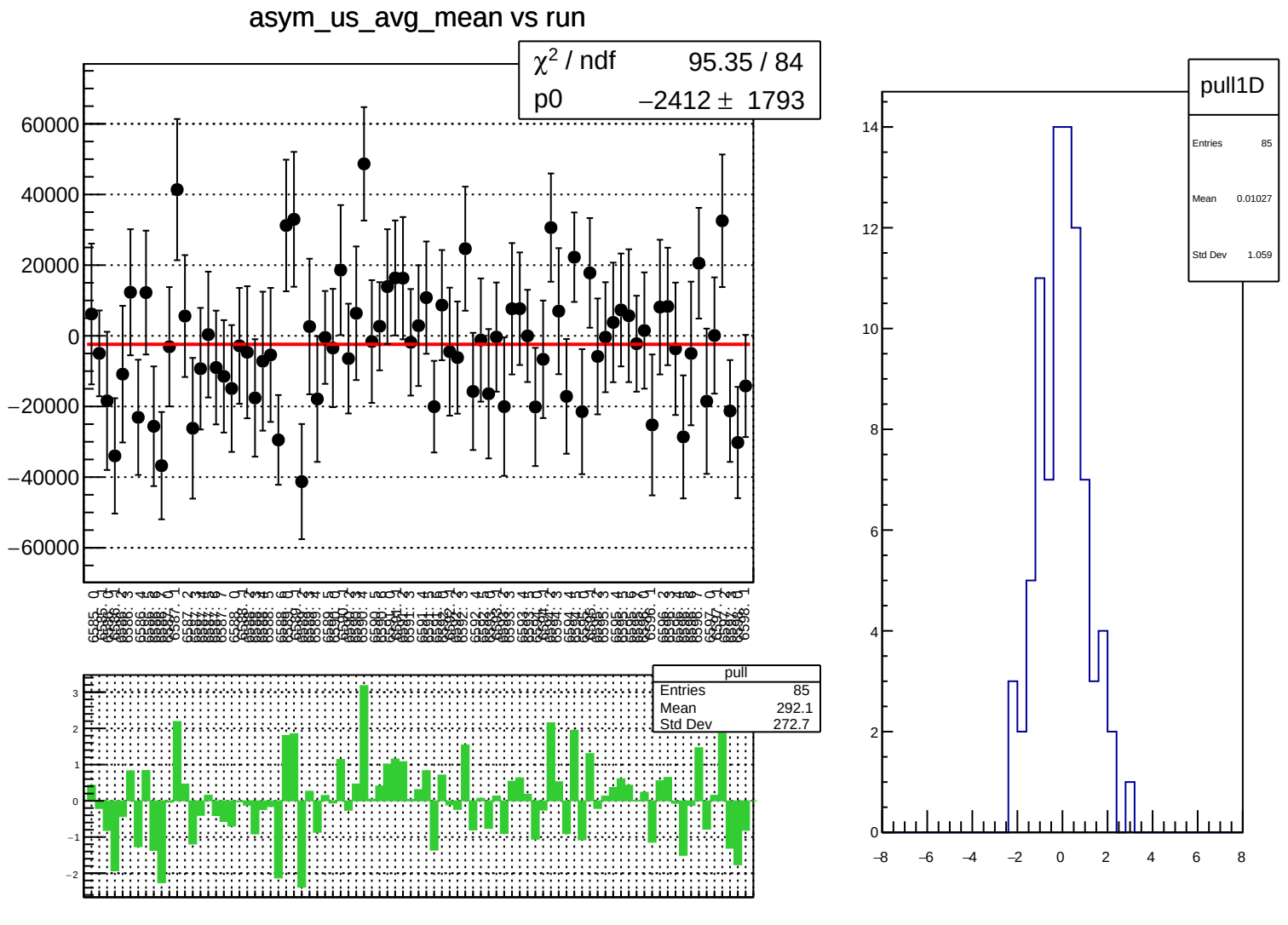

reg_asym_us_avg_mean vs run
χ^2 / ndf 95.28 / 84
p0 −1806 ± 892.5
pull
Entries 85
Mean 328.6
Std Dev 292.5
pull1D
Entries 85
Mean 0.01383
Std Dev 1.059

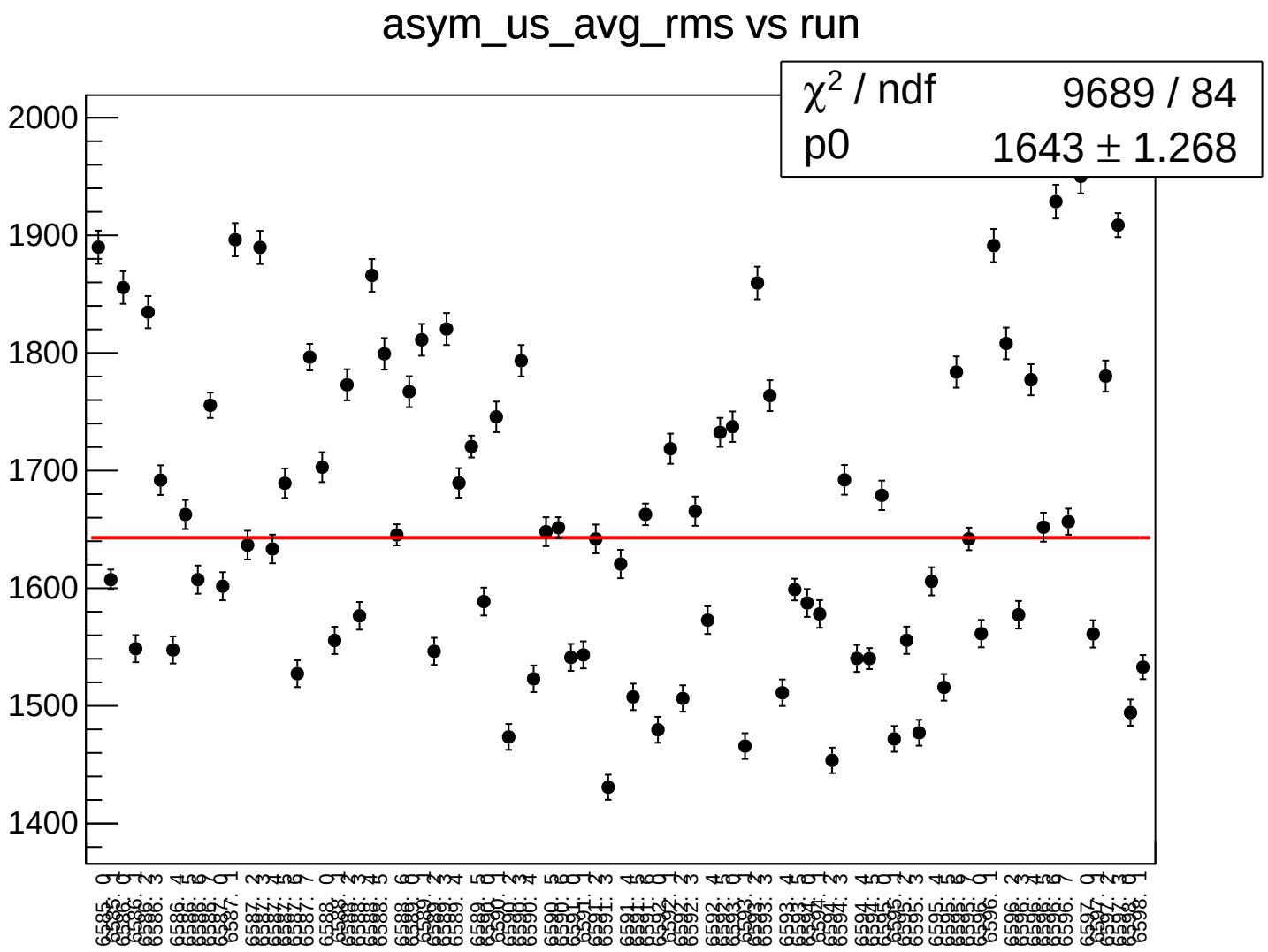

reg_asym_us_avg_rms vs run
χ² / ndf 380.2 / 84
p0 820.2 ± 0.6311
920
900
880
860
840
820
800

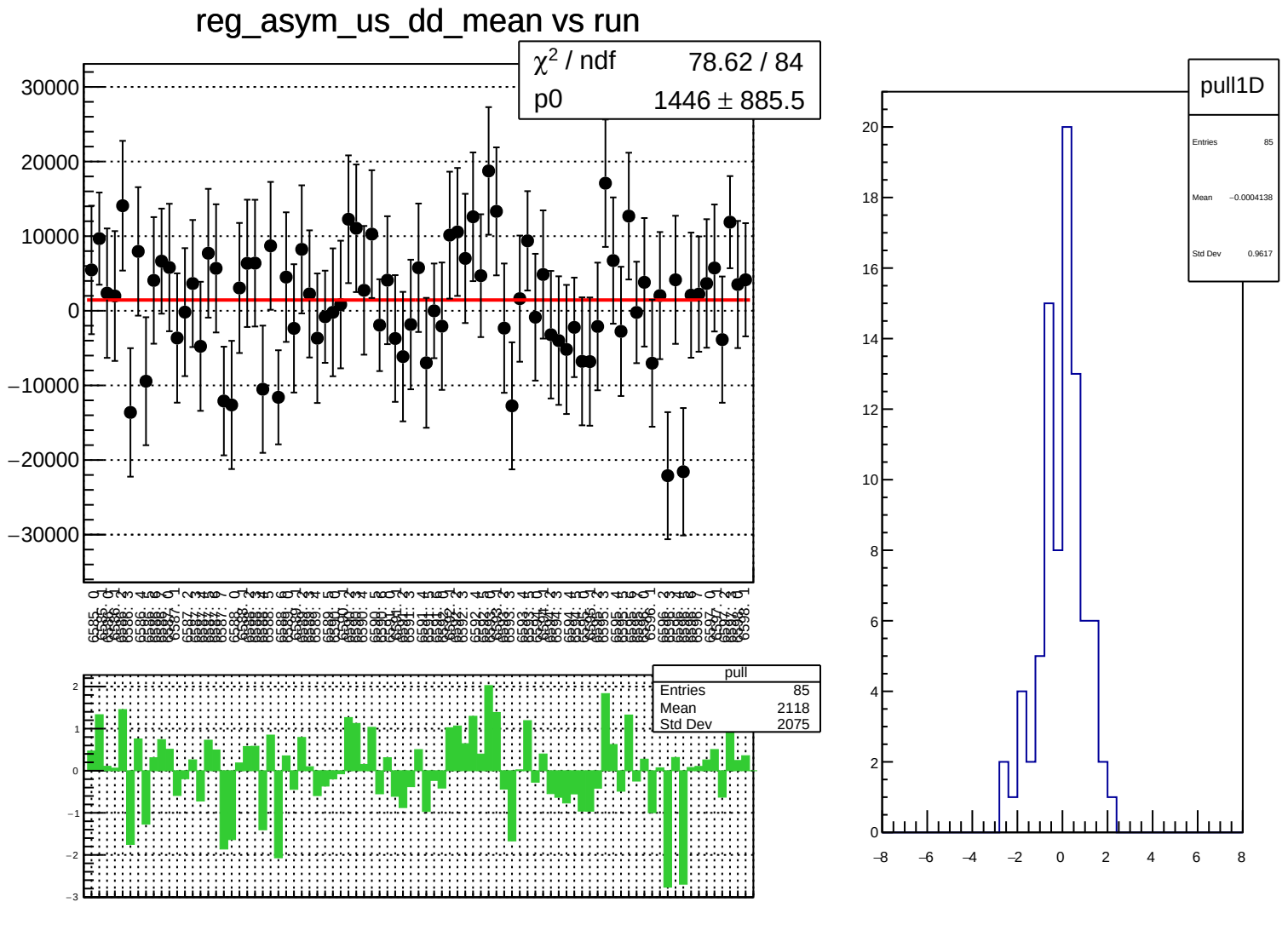

asym_us_avg_correction_mean vs run
χ² / ndf 86.66 / 84
p0 513.6 ± 1548
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 9368
Std Dev 9402
pull1D
Entries 85
Mean −7.998e−05
Std Dev 1.01

asym_us_avg_correction_rms vs run

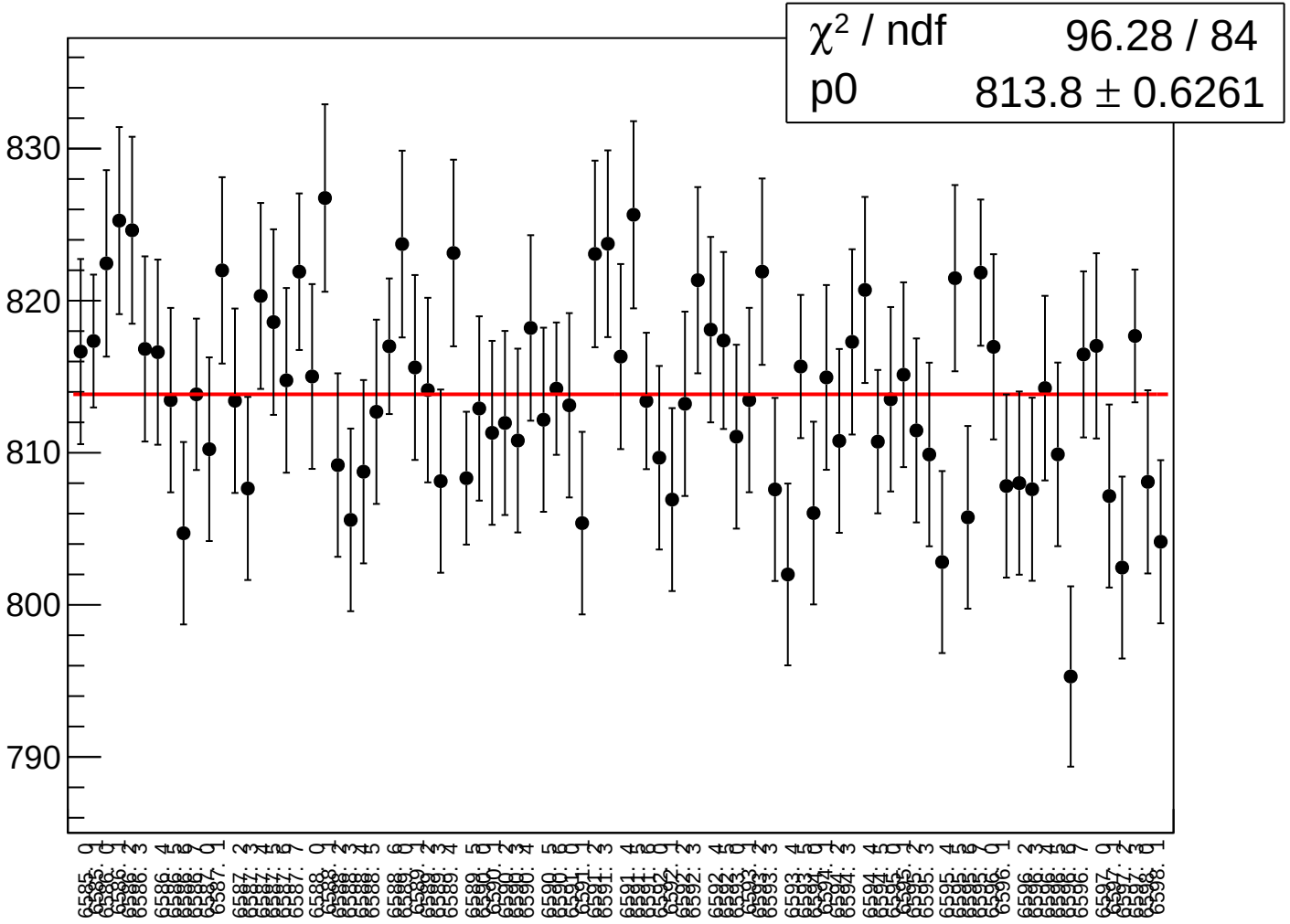


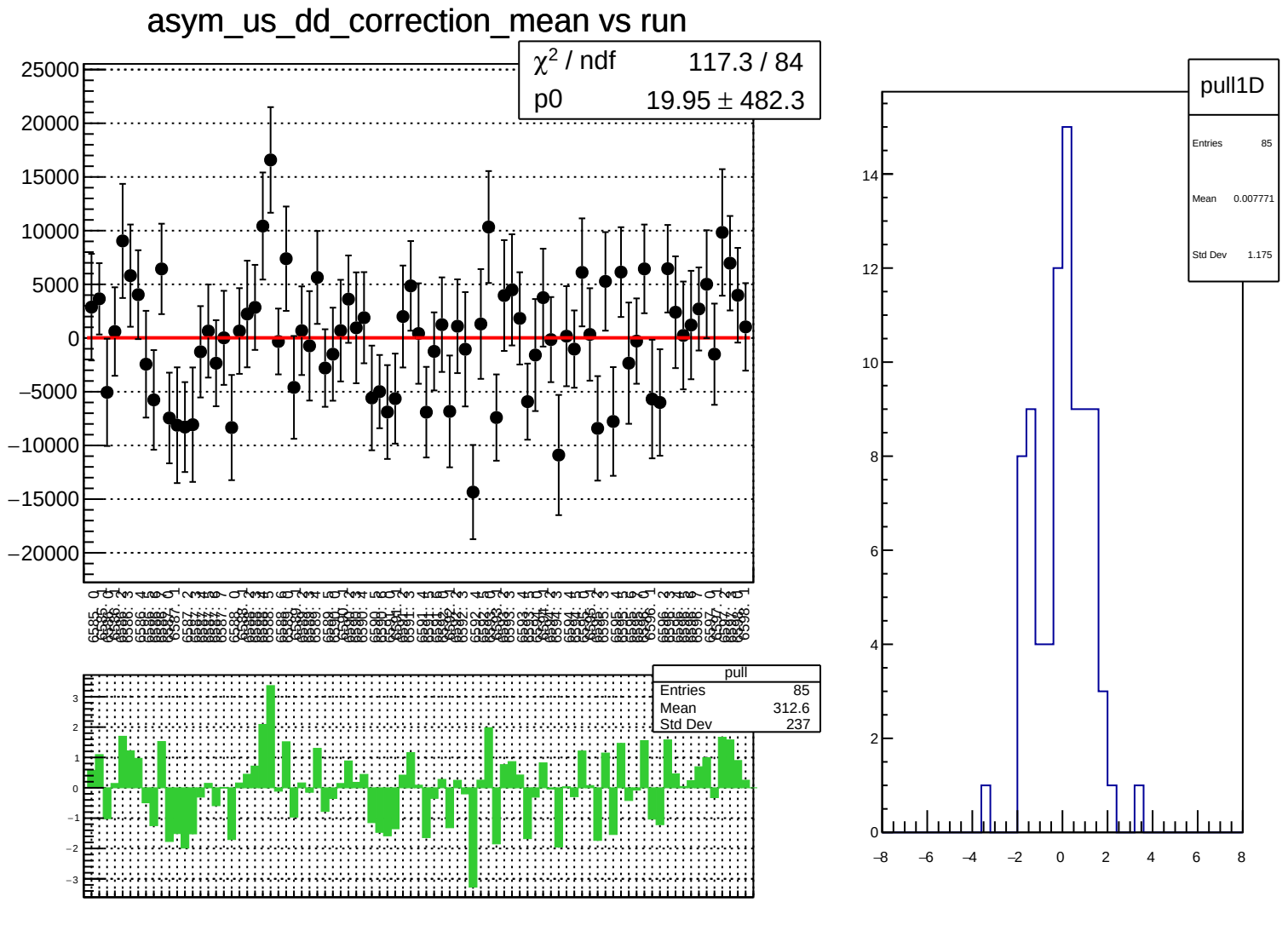

asym_us_avg_mean vs run
χ² / ndf 95.35 / 84
p0 −2412 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 292.1
Std Dev 272.7
pull1D
Entries 85
Mean 0.01027
Std Dev 1.059


asym_us_avg_rms vs run
χ² / ndf 9689 / 84
p0 1643 ± 1.268
2000
1900
1800
1700
1600
1500
1400

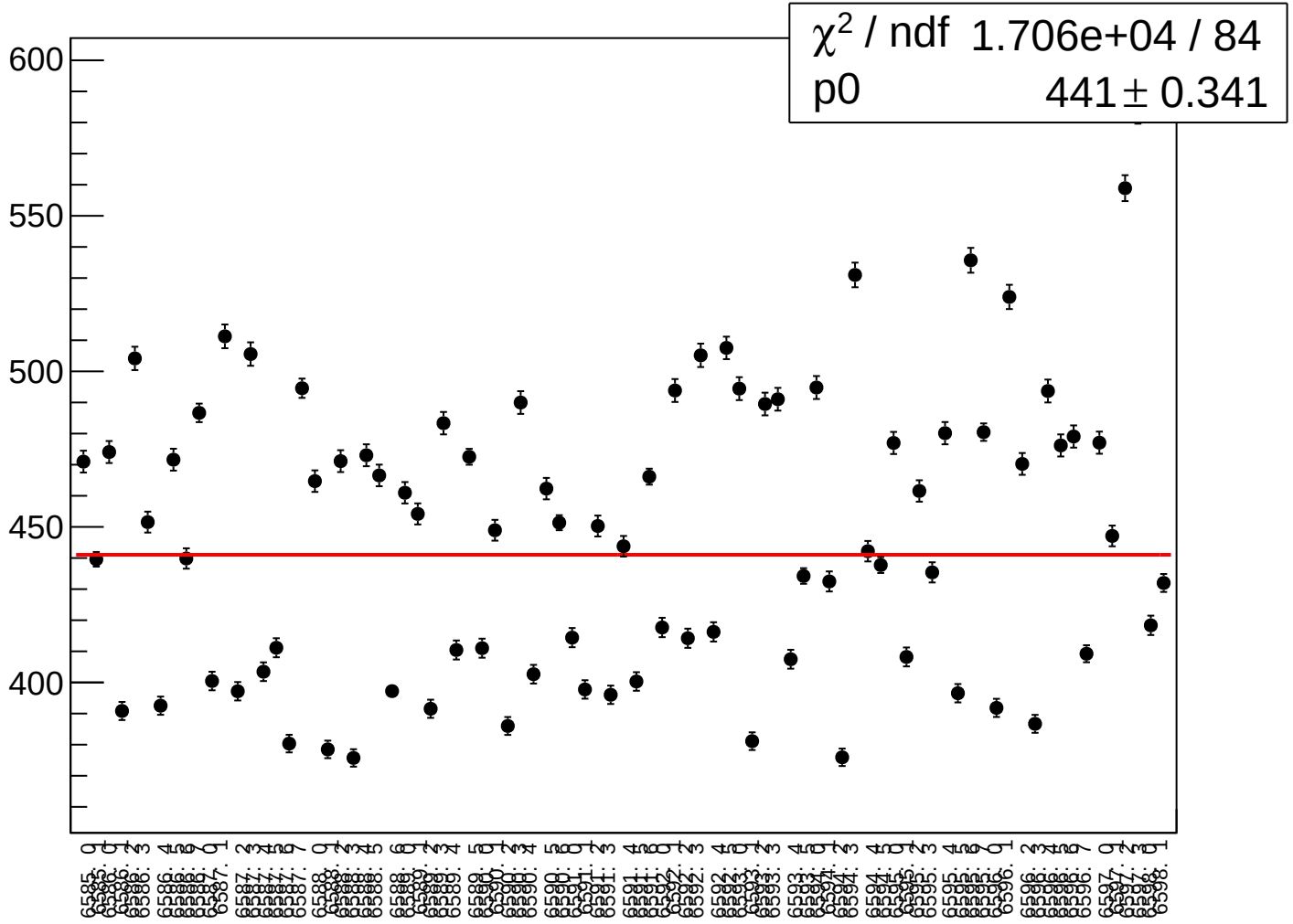

reg_asym_us_dd_mean vs run
χ² / ndf 78.62 / 84
p0 1446 ± 885.5
pull
Entries 85
Mean 2118
Std Dev 2075
pull1D
Entries 85
Mean −0.0004138
Std Dev 0.9617

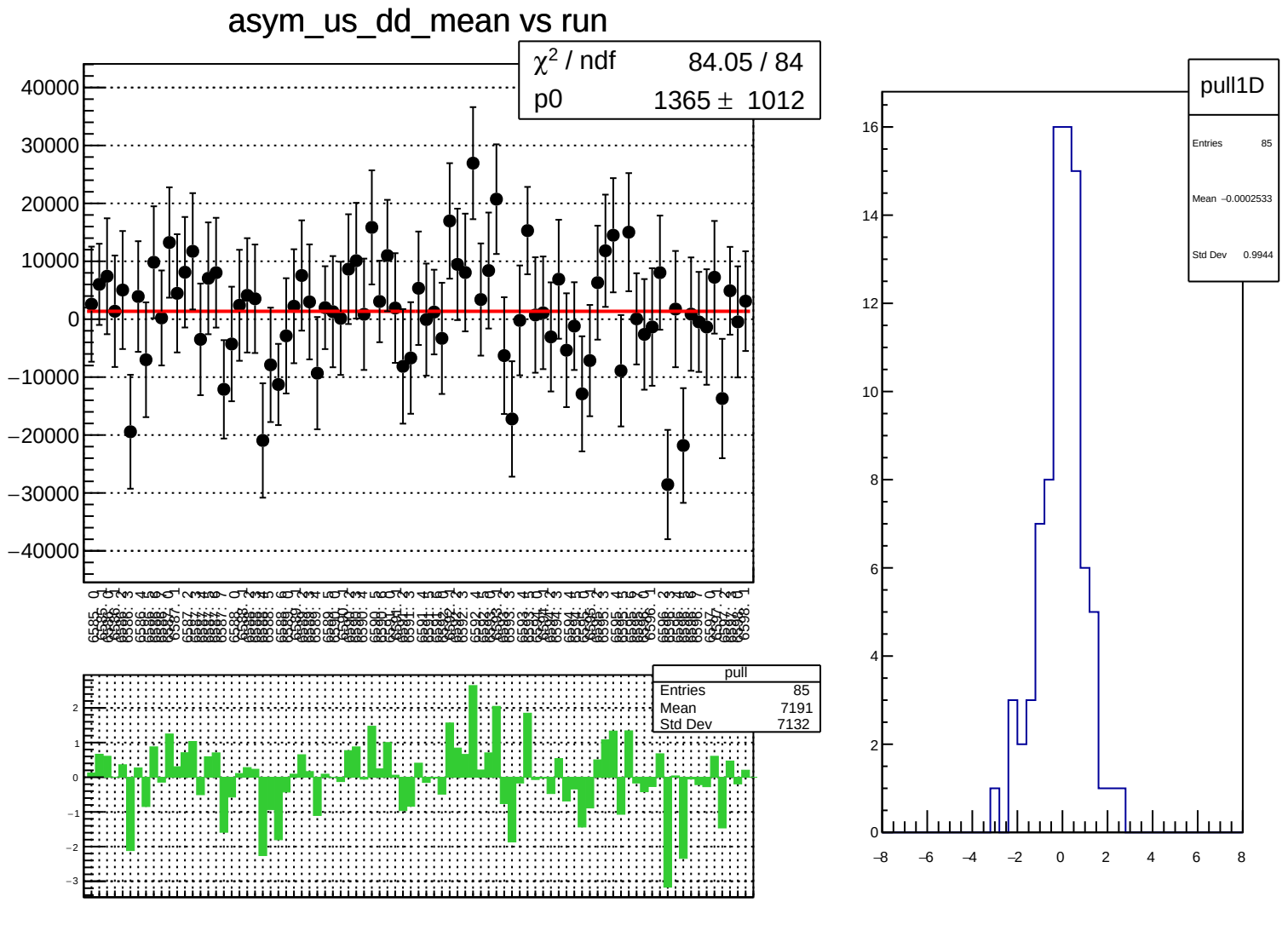
reg_asym_us_dd_rms vs run

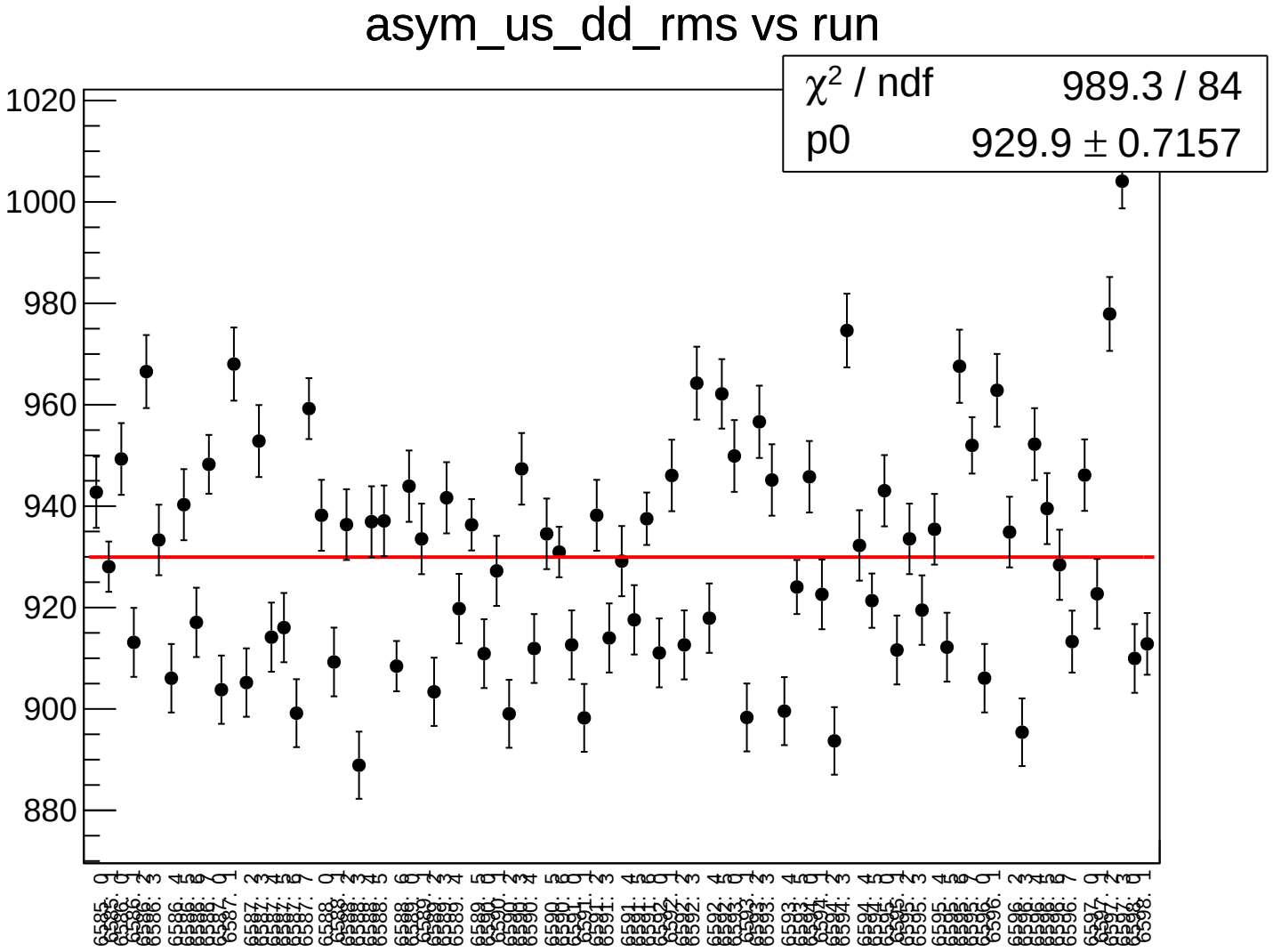


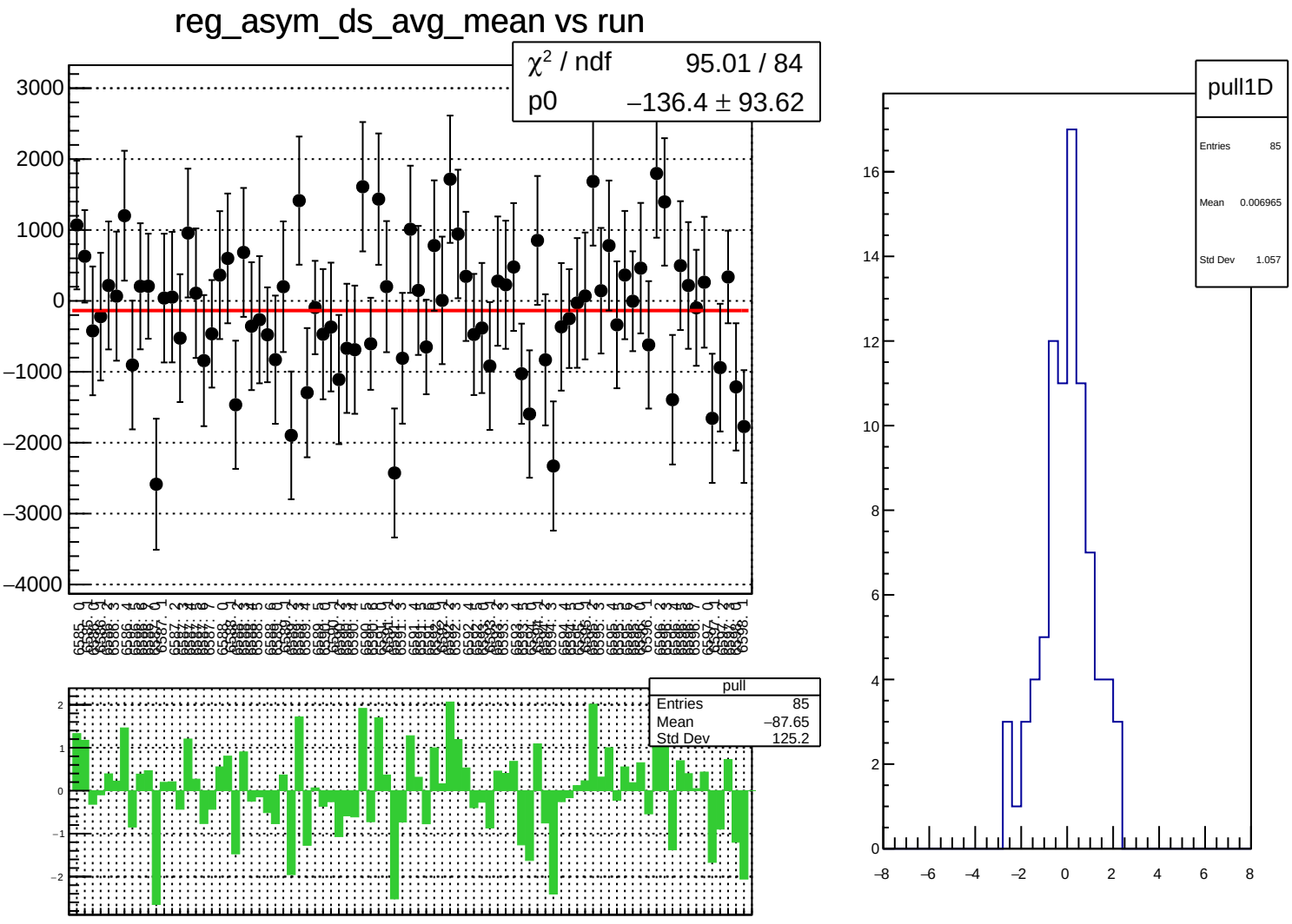

asym_us_dd_correction_mean vs run
χ² / ndf 117.3 / 84
p0 19.95 ± 482.3
pull
Entries 85
Mean 312.6
Std Dev 237
pull1D
Entries 85
Mean 0.007771
Std Dev 1.175

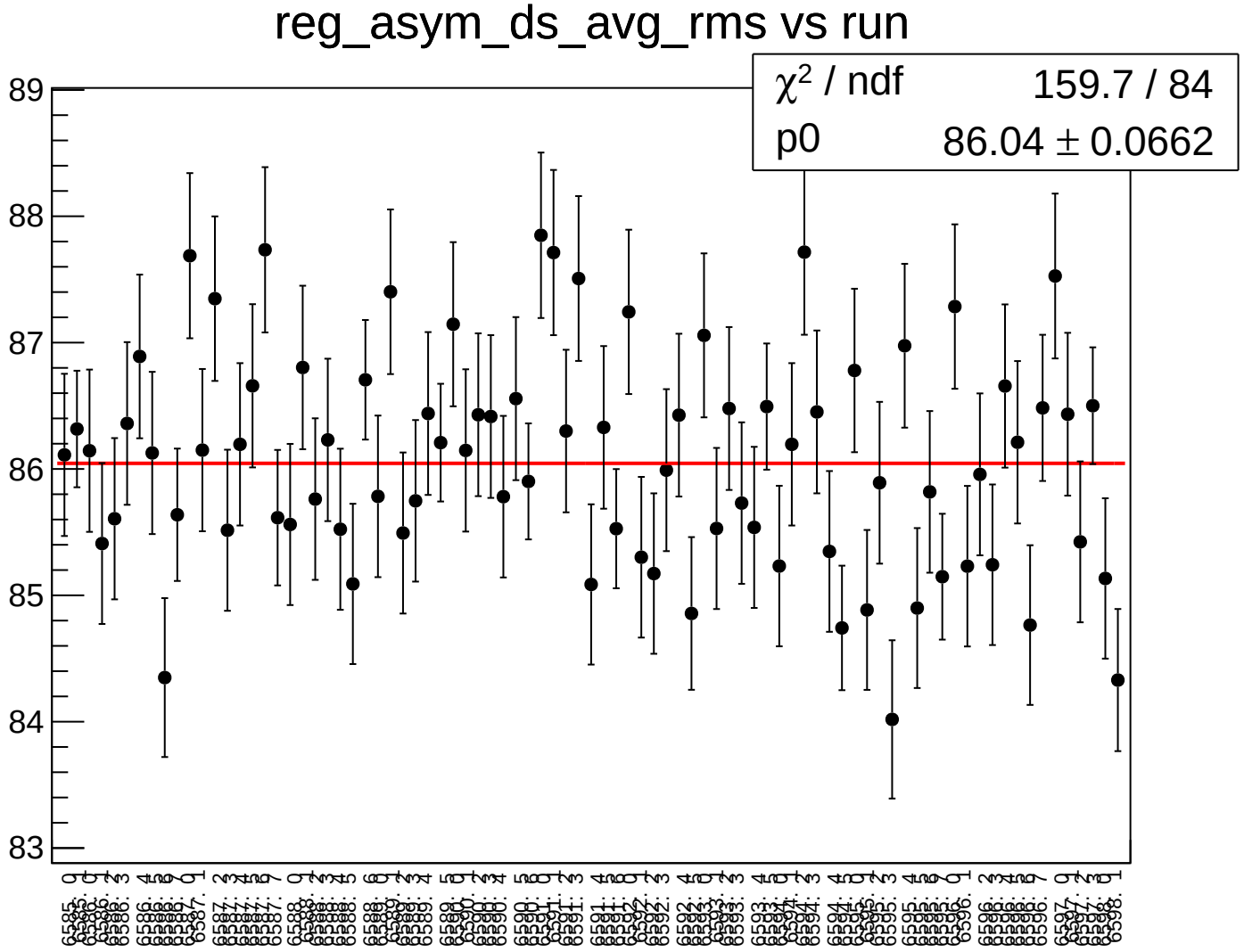
asym_us_dd_correction_rms vs run

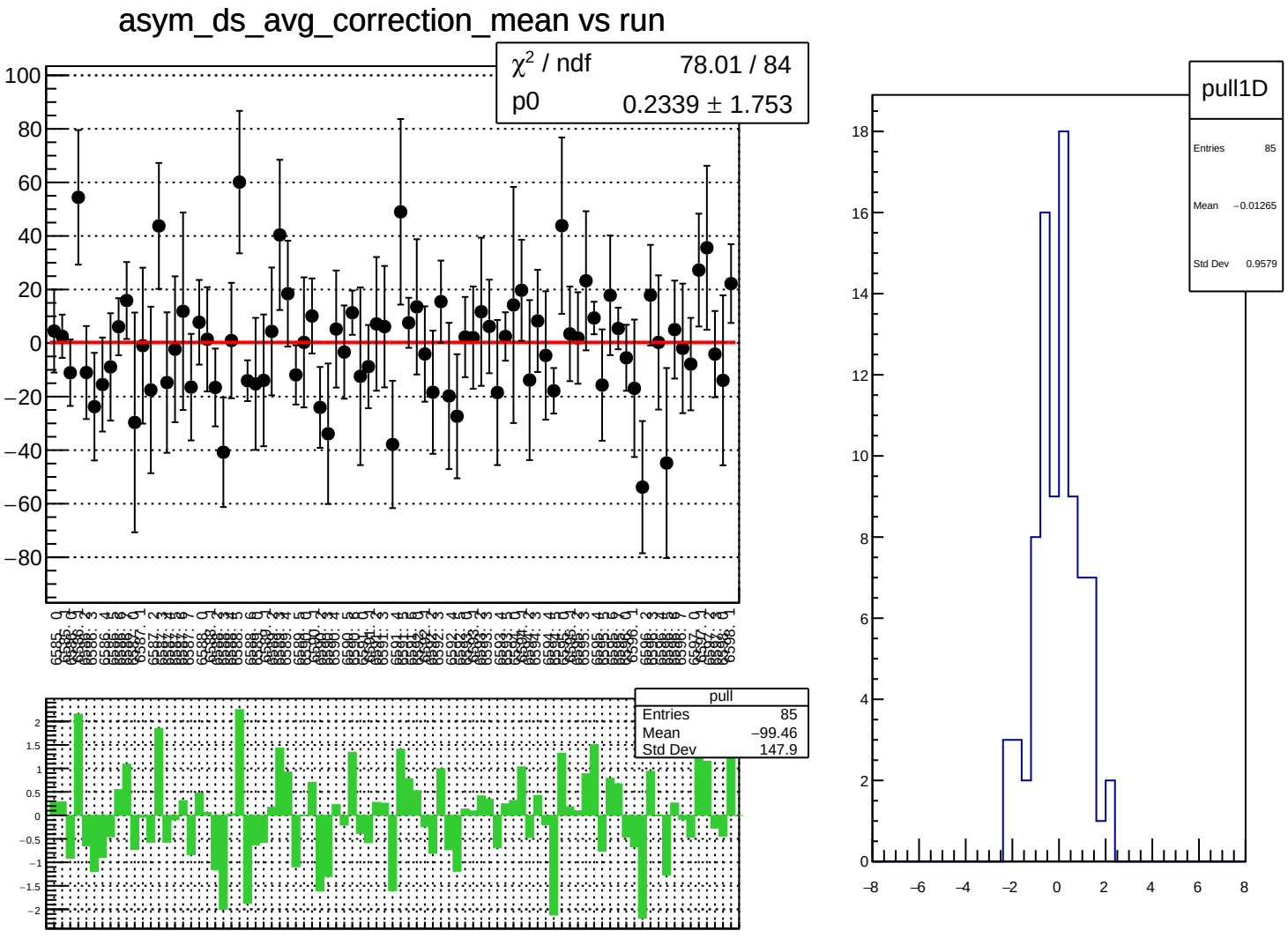



asym_us_dd_mean vs run
χ² / ndf 84.05 / 84
p0 1365 ± 1012
pull
Entries 85
Mean 7191
Std Dev 7132
pull1D
Entries 85
Mean −0.0002533
Std Dev 0.9944

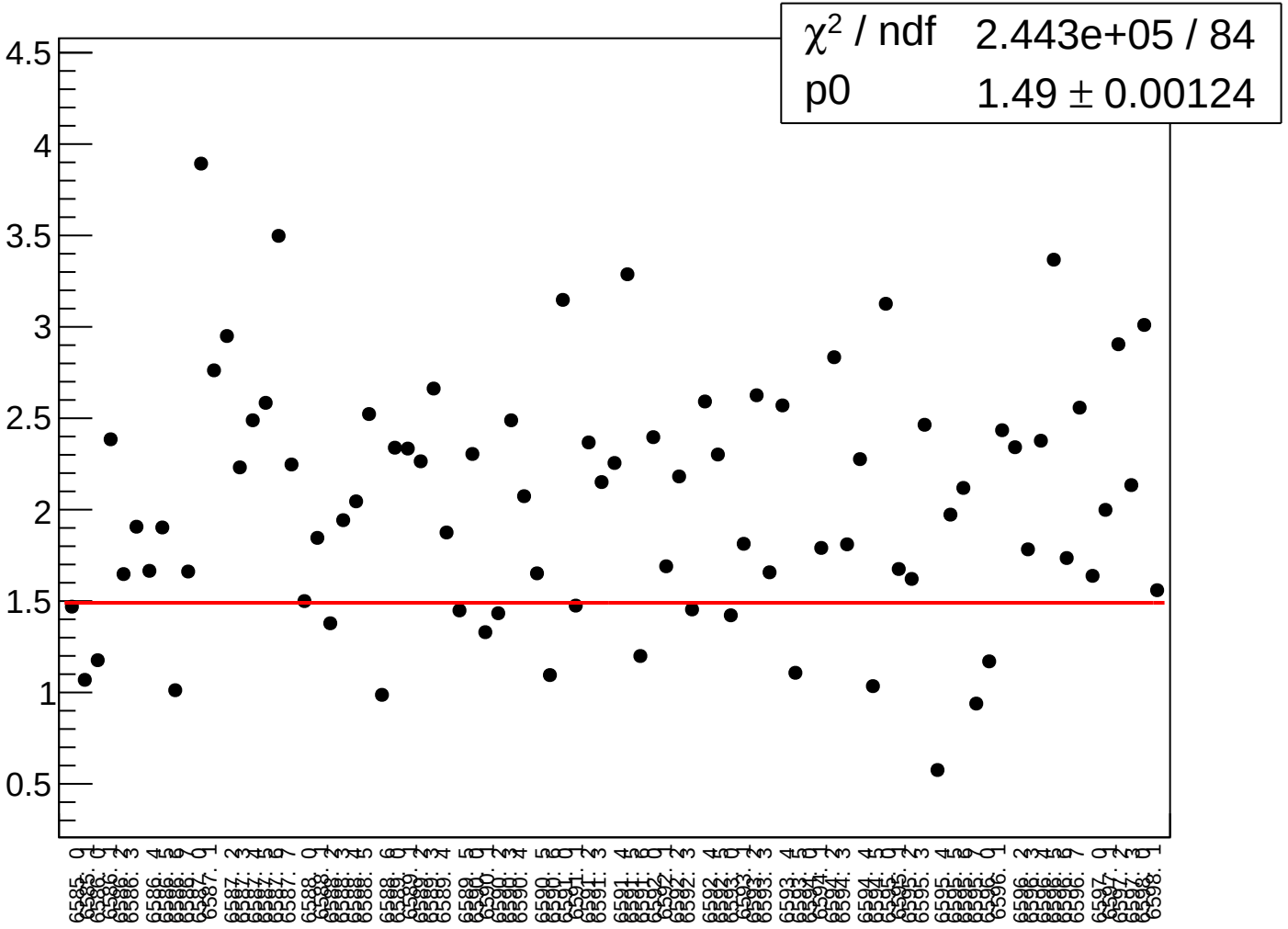

asym_us_dd_rms vs run
χ^2 / ndf 989.3 / 84
p0 929.9 ± 0.7157
1020
1000
980
960
940
920
900
880

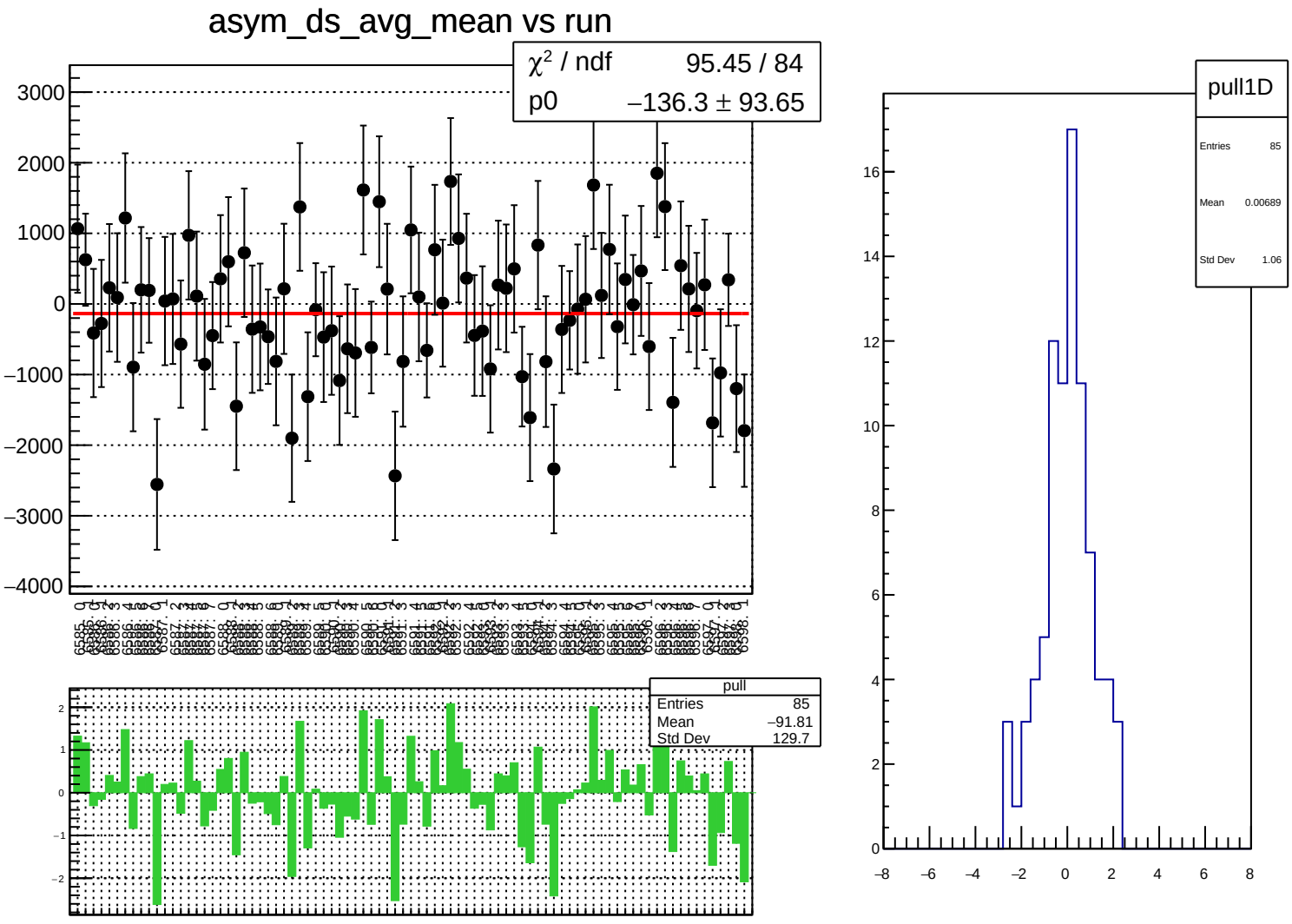

reg_asym_ds_avg_mean vs run
χ² / ndf 95.01 / 84
p0 −136.4 ± 93.62
pull
Entries 85
Mean −87.65
Std Dev 125.2
pull1D
Entries 85
Mean 0.006965
Std Dev 1.057

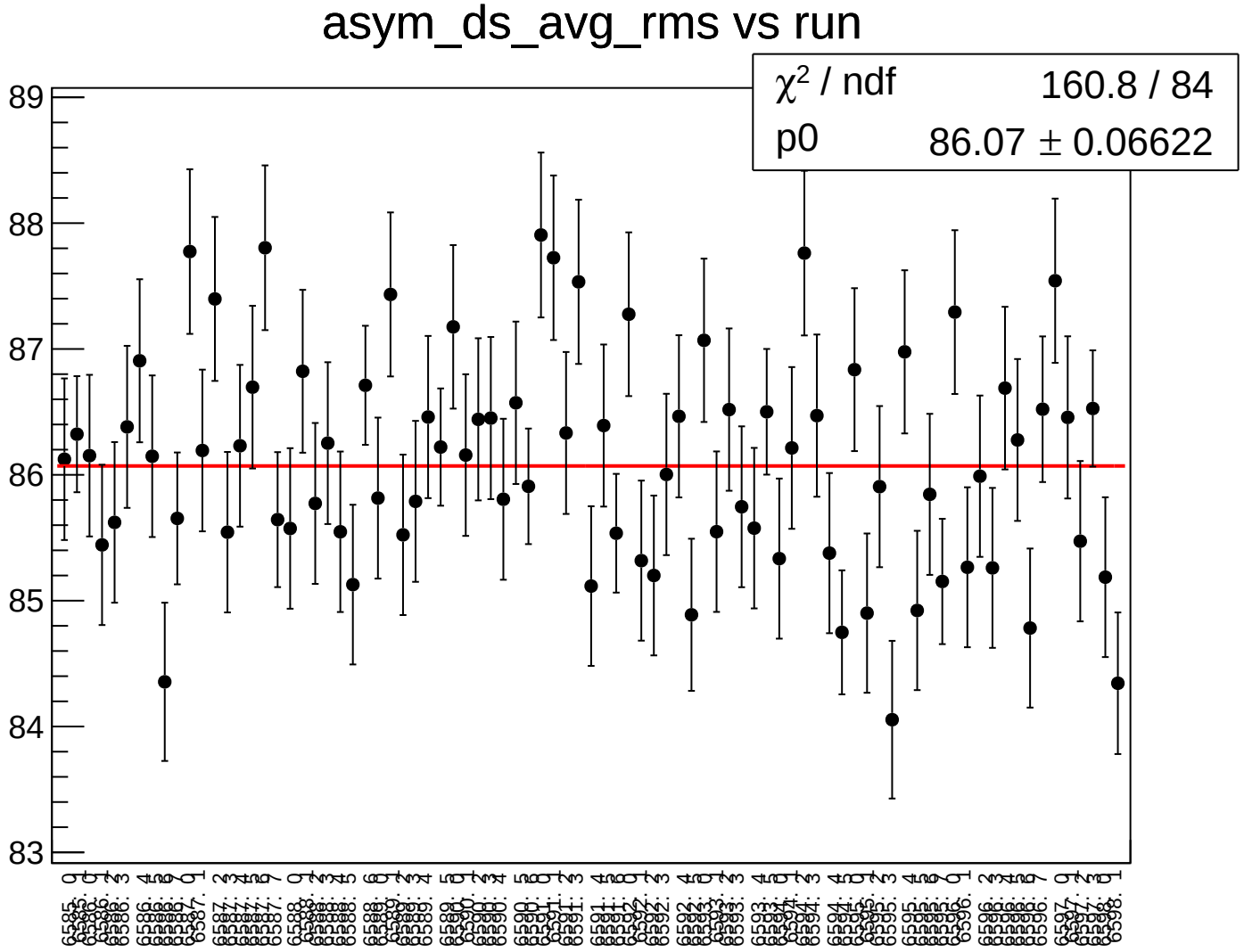

reg_asym_ds_avg_rms vs run
χ^2 / ndf 159.7 / 84
p0 86.04 ± 0.0662
89
88
87
86
85
84
83

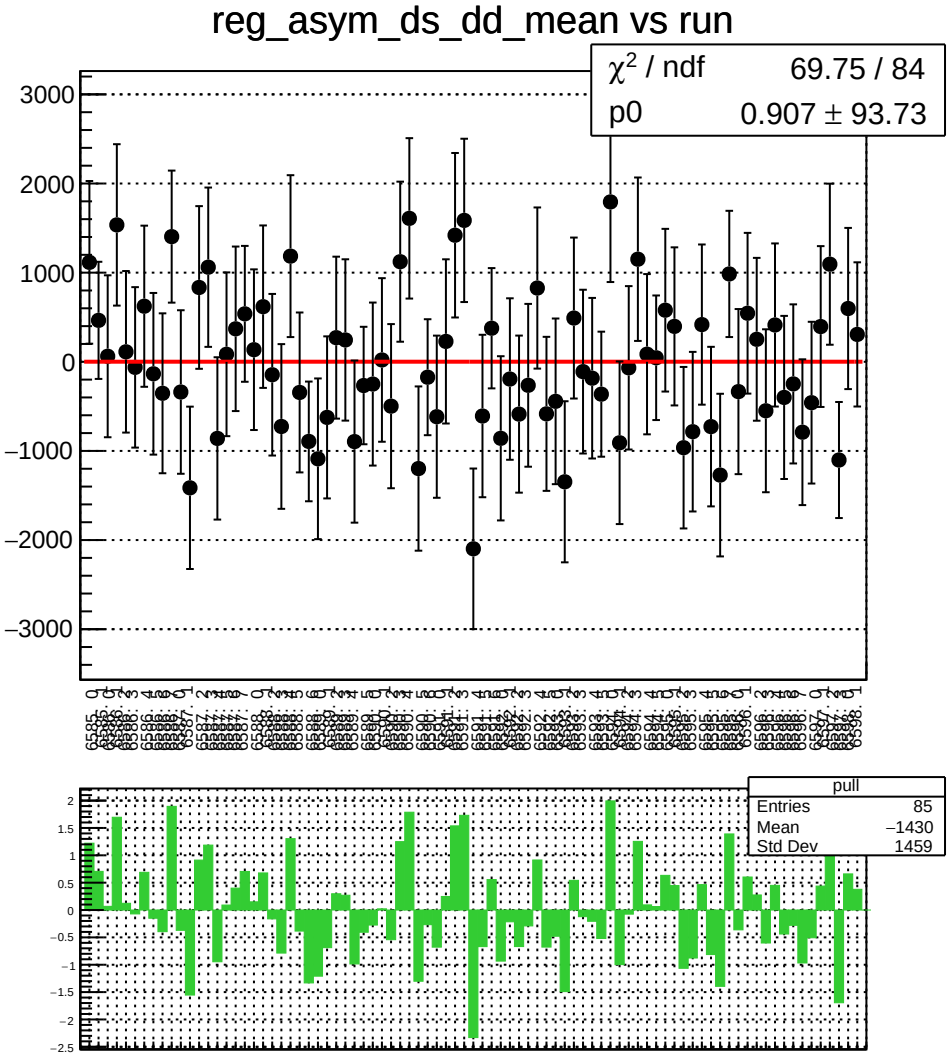

asym_ds_avg_correction_mean vs run
χ^2 / ndf 78.01 / 84
p0 0.2339 ± 1.753
pull
Entries 85
Mean −99.46
Std Dev 147.9
pull1D
Entries 85
Mean −0.01265
Std Dev 0.9579

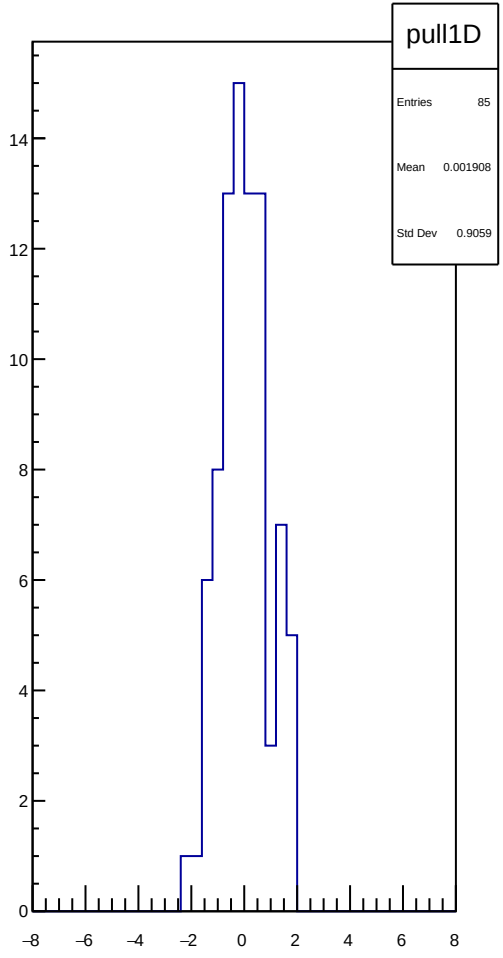
asym_ds_avg_correction_rms vs run

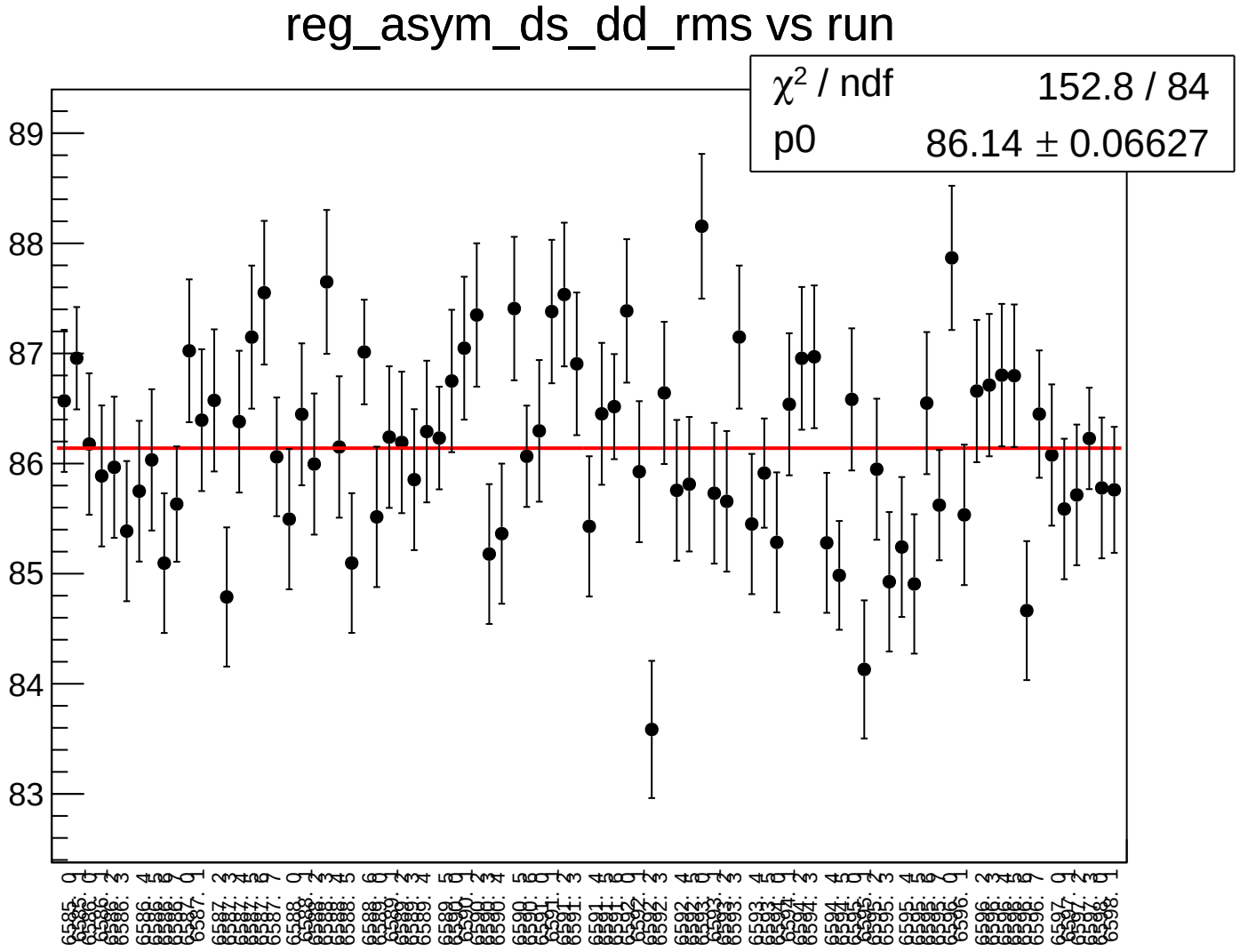


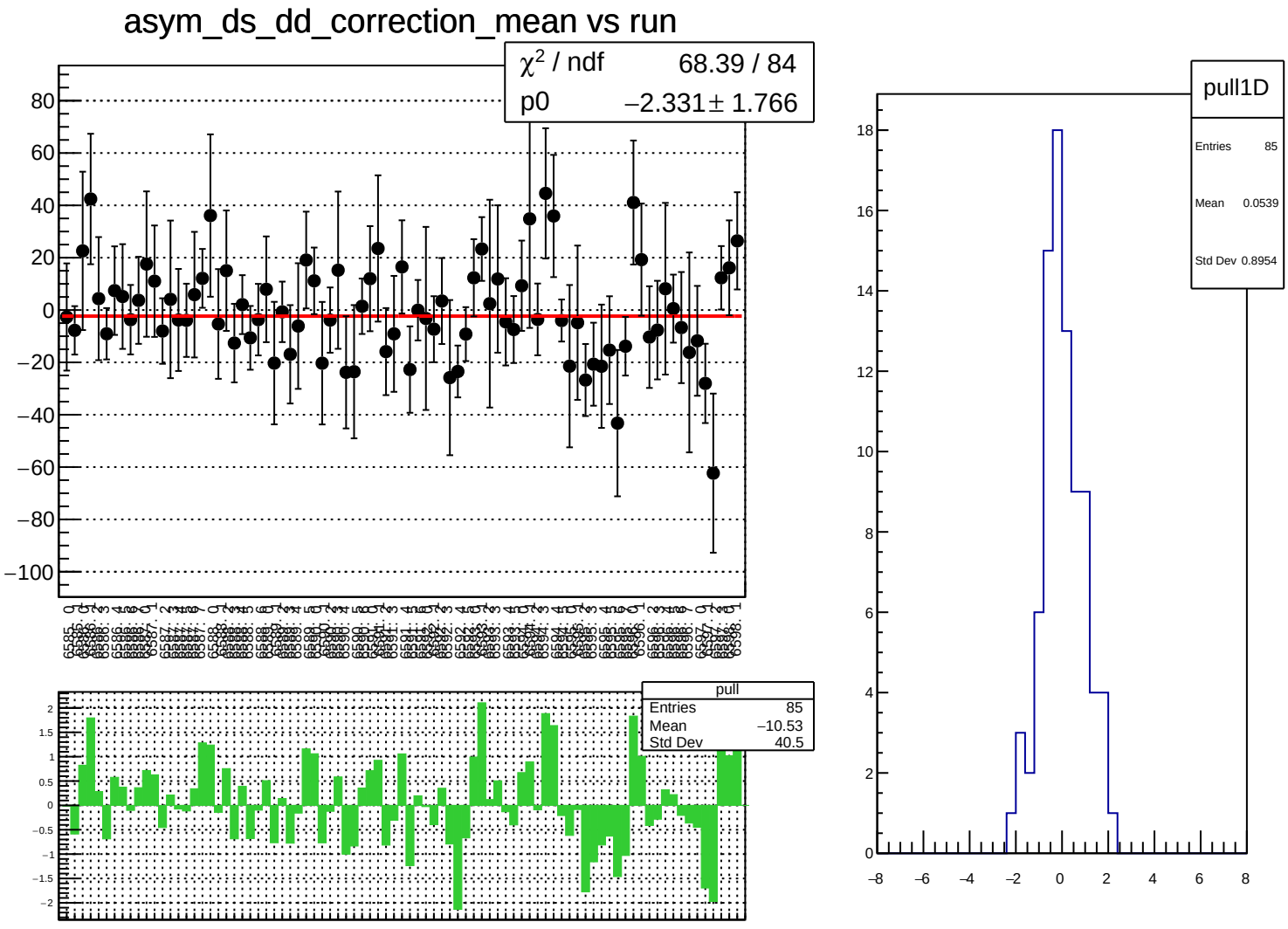

asym_ds_avg_mean vs run
χ² / ndf 95.45 / 84
p0 −136.3 ± 93.65
pull
Entries 85
Mean −91.81
Std Dev 129.7
pull1D
Entries 85
Mean 0.00689
Std Dev 1.06


asym_ds_avg_rms vs run
χ^2 / ndf 160.8 / 84
p0 86.07 ± 0.06622
89
88
87
86
85
84
83

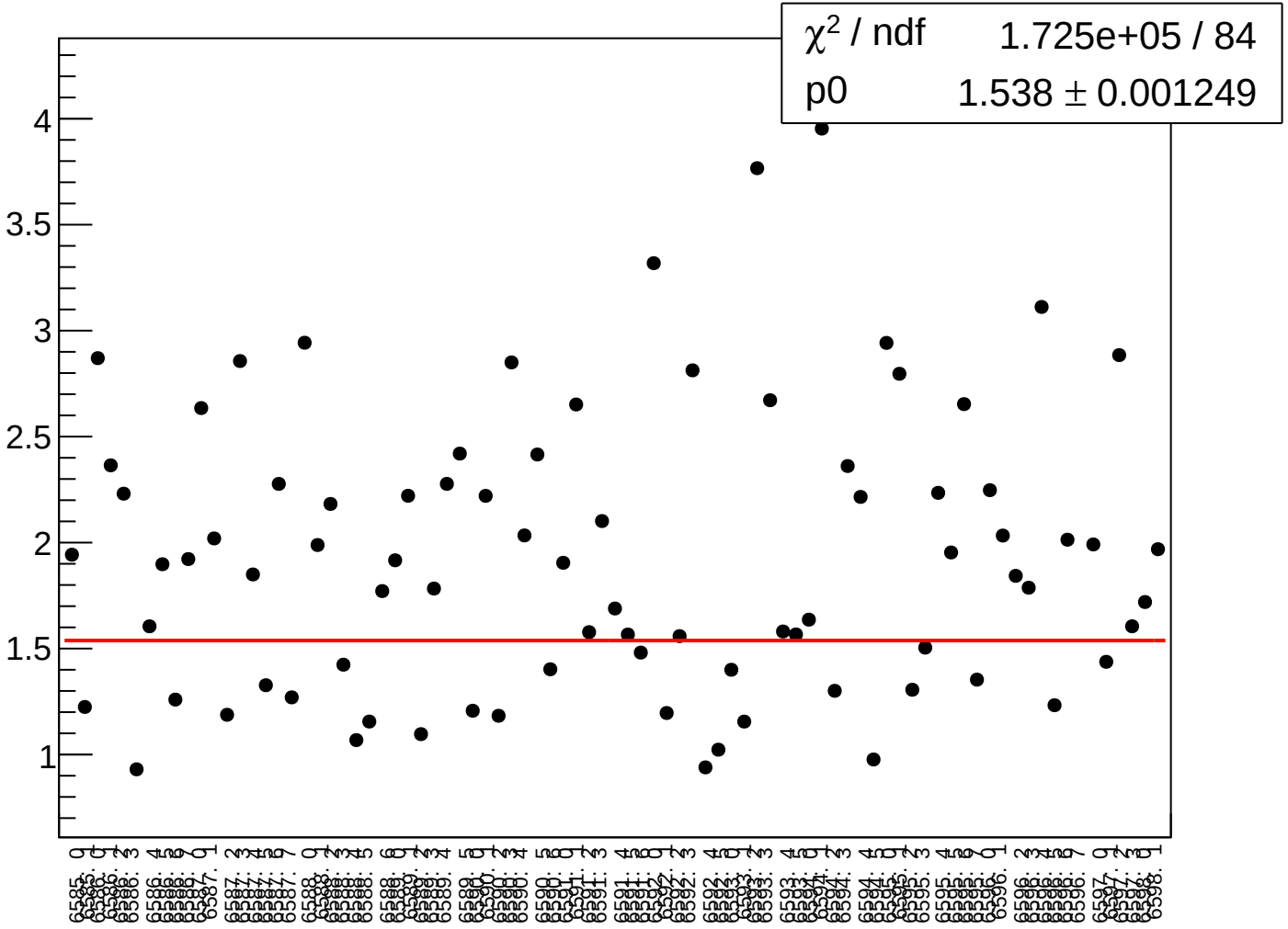

reg_asym_ds_dd_mean vs run
χ^2 / ndf 69.75 / 84
p0 0.907 ± 93.73
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −1430
Std Dev 1459
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

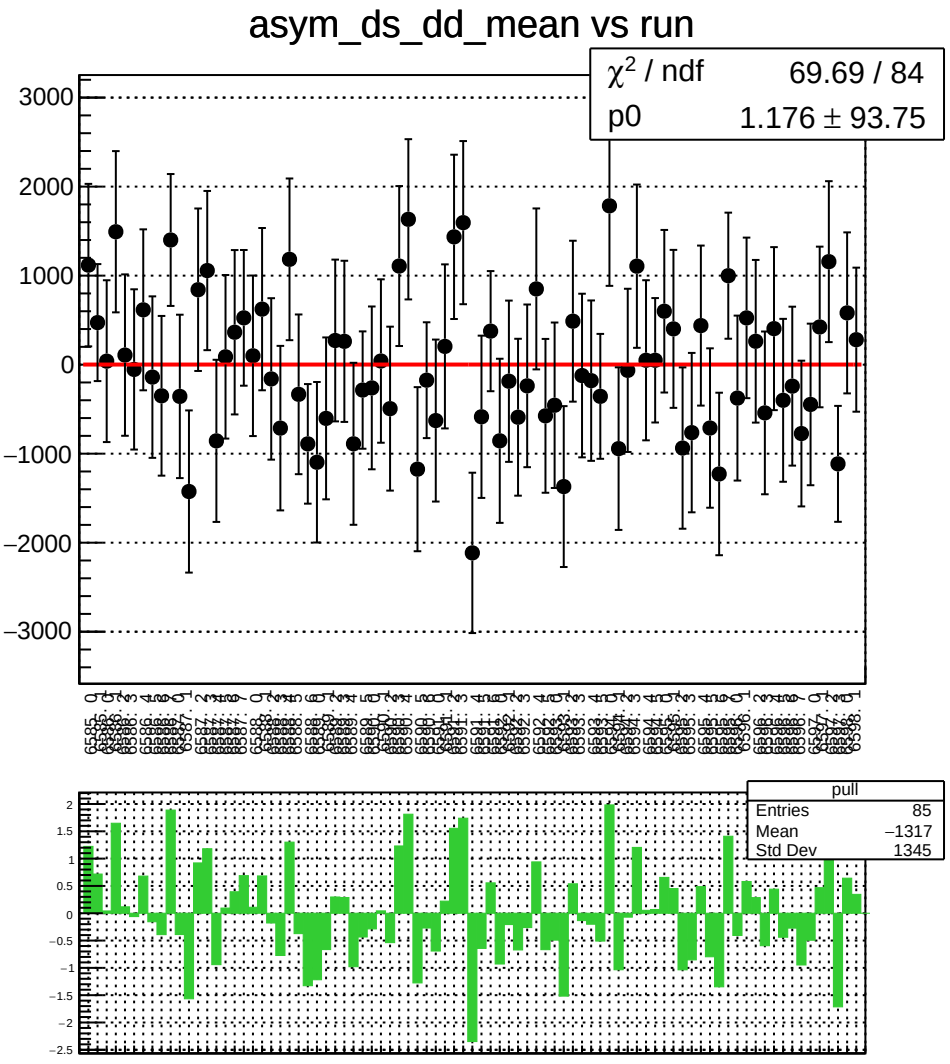

pull1D
Entries 85
Mean 0.001908
Std Dev 0.9059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

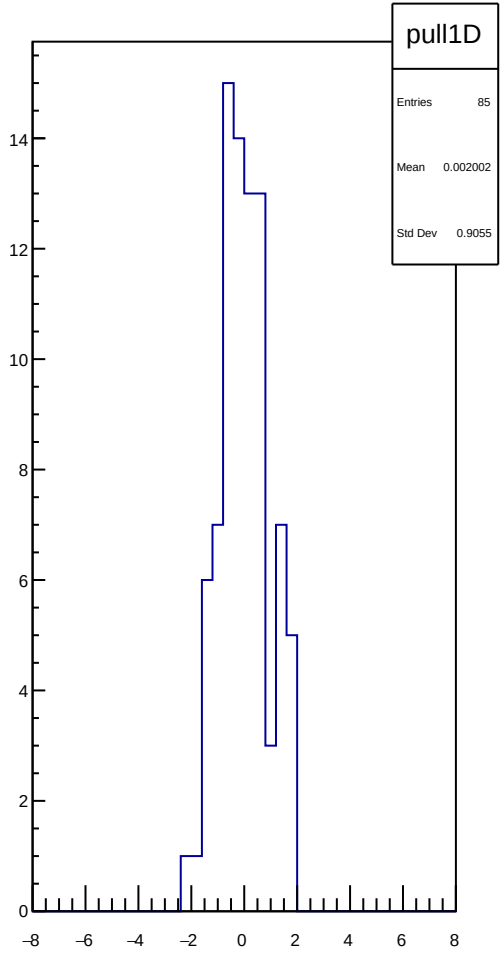

reg_asym_ds_dd_rms vs run
χ² / ndf 152.8 / 84
p0 86.14 ± 0.06627
89
88
87
86
85
84
83

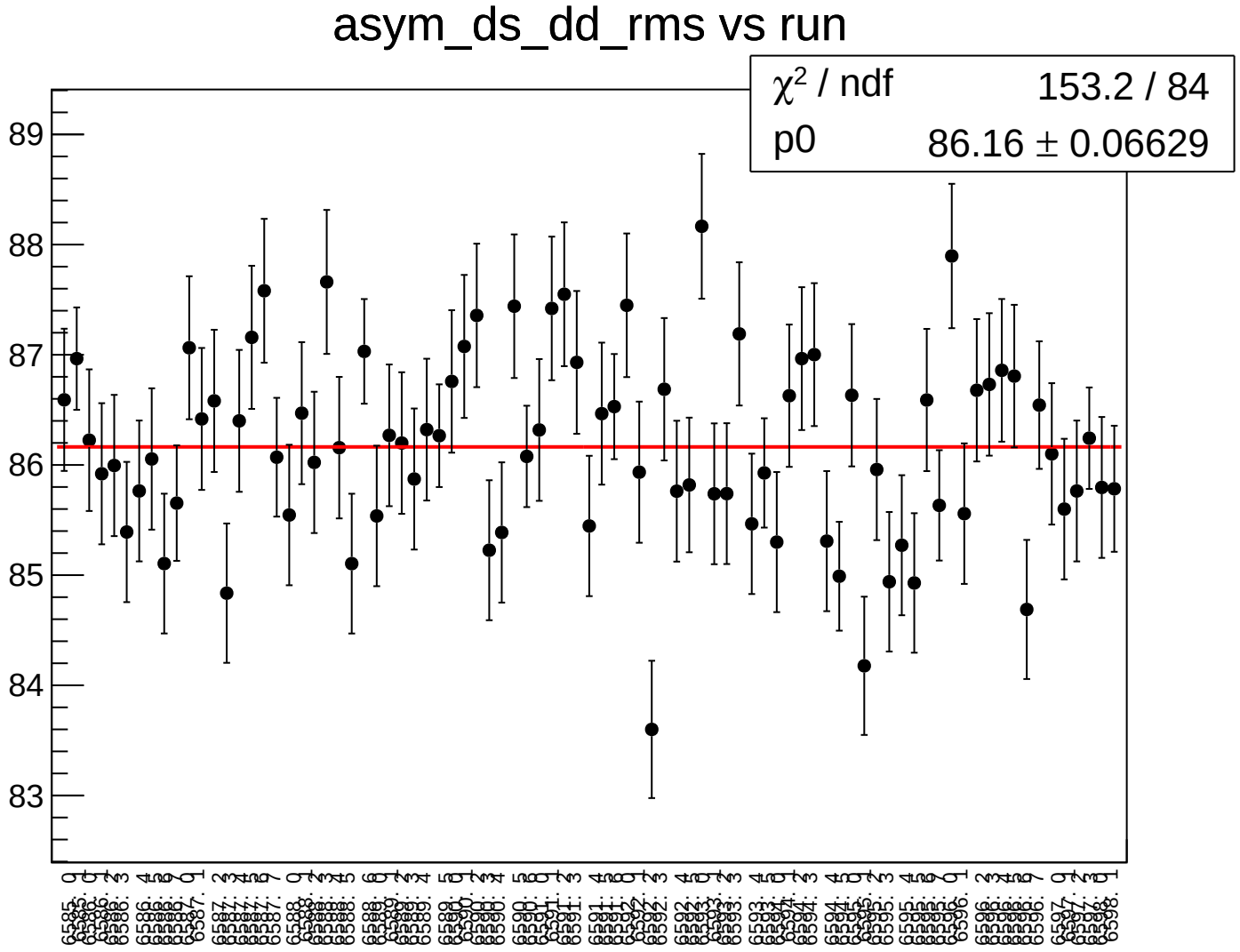

asym_ds_dd_correction_mean vs run
χ² / ndf 68.39 / 84
p0 −2.331 ± 1.766
pull
Entries 85
Mean −10.53
Std Dev 40.5
pull1D
Entries 85
Mean 0.0539
Std Dev 0.8954

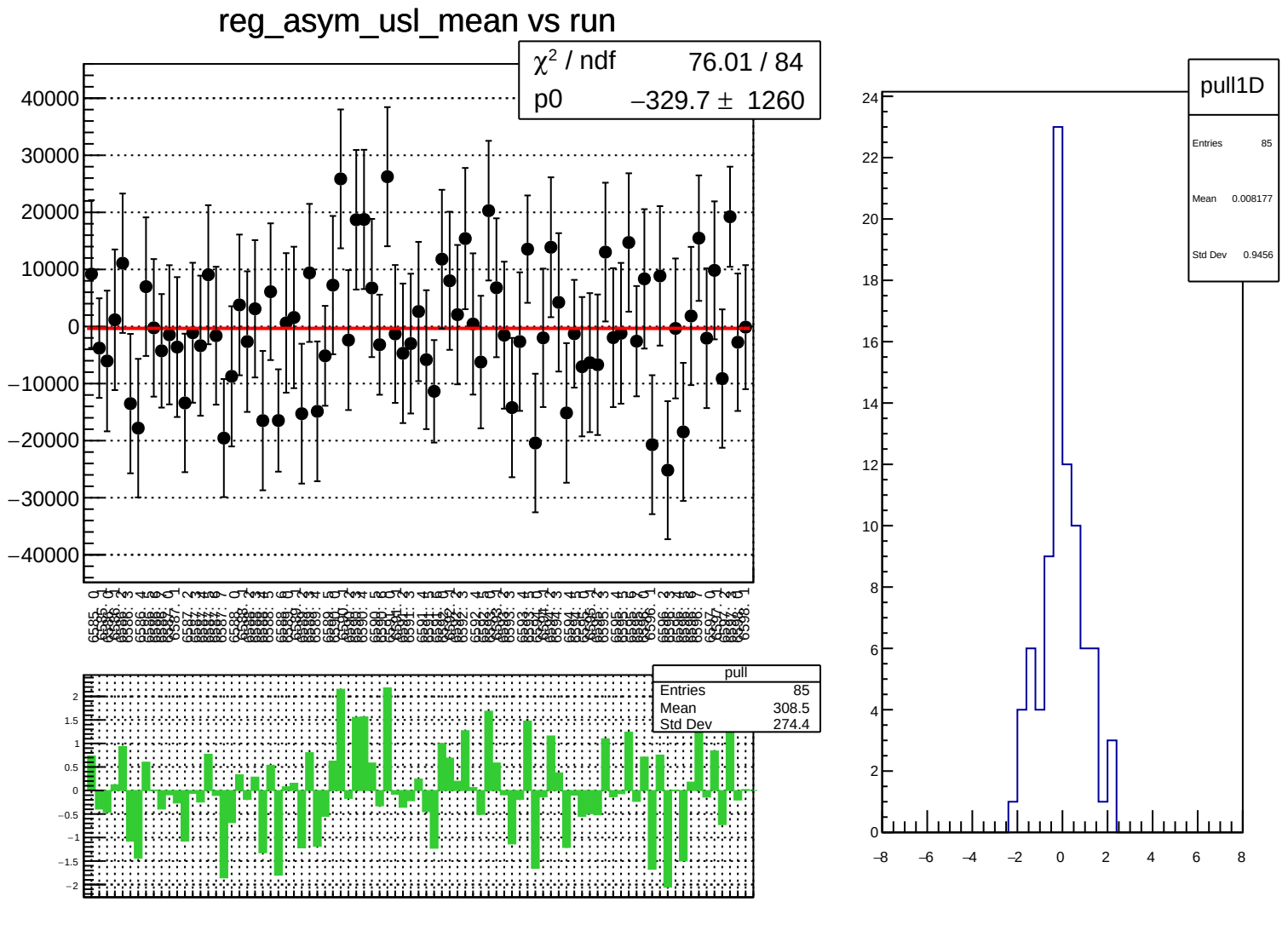
asym_ds_dd_correction_rms vs run

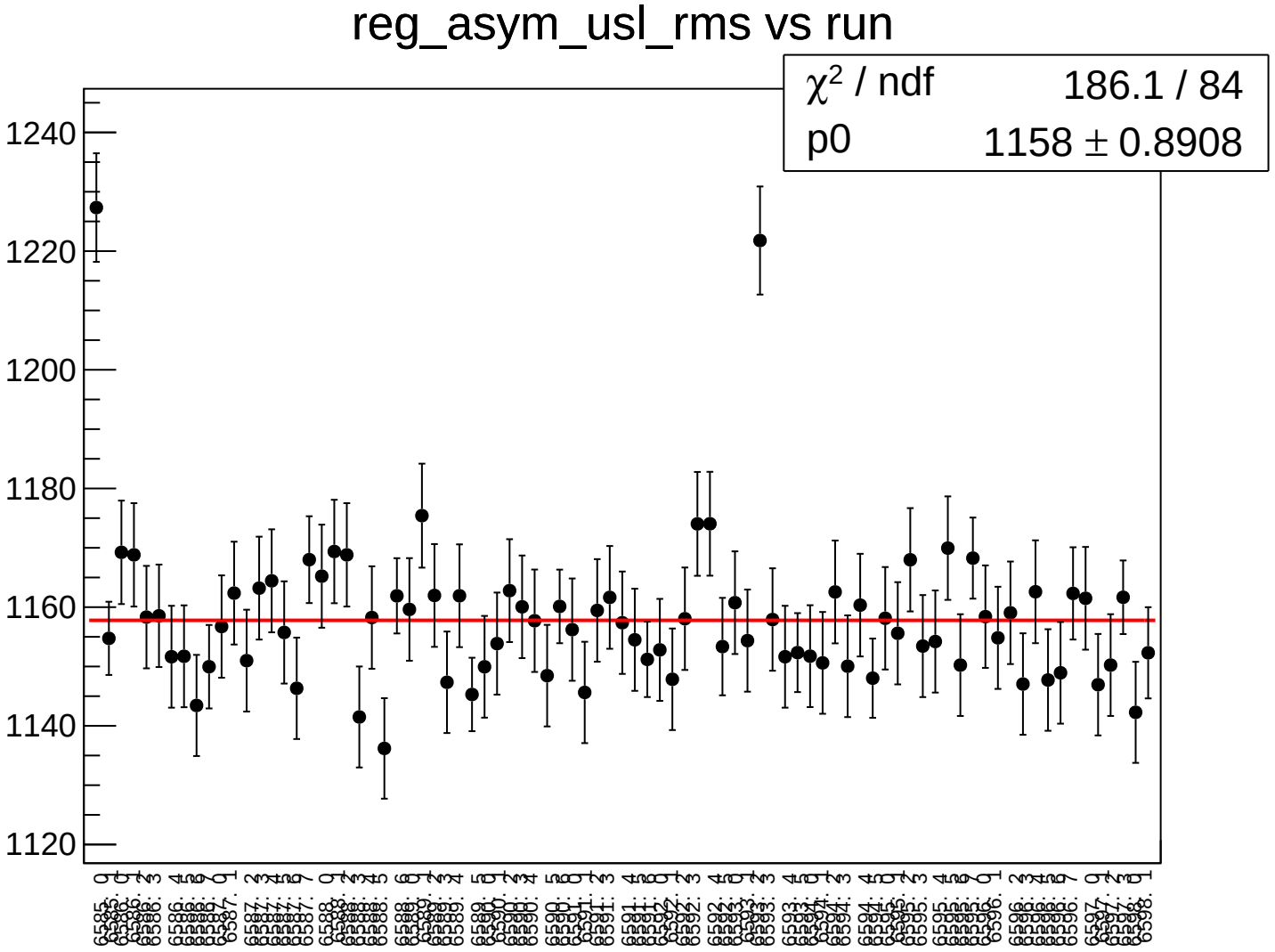


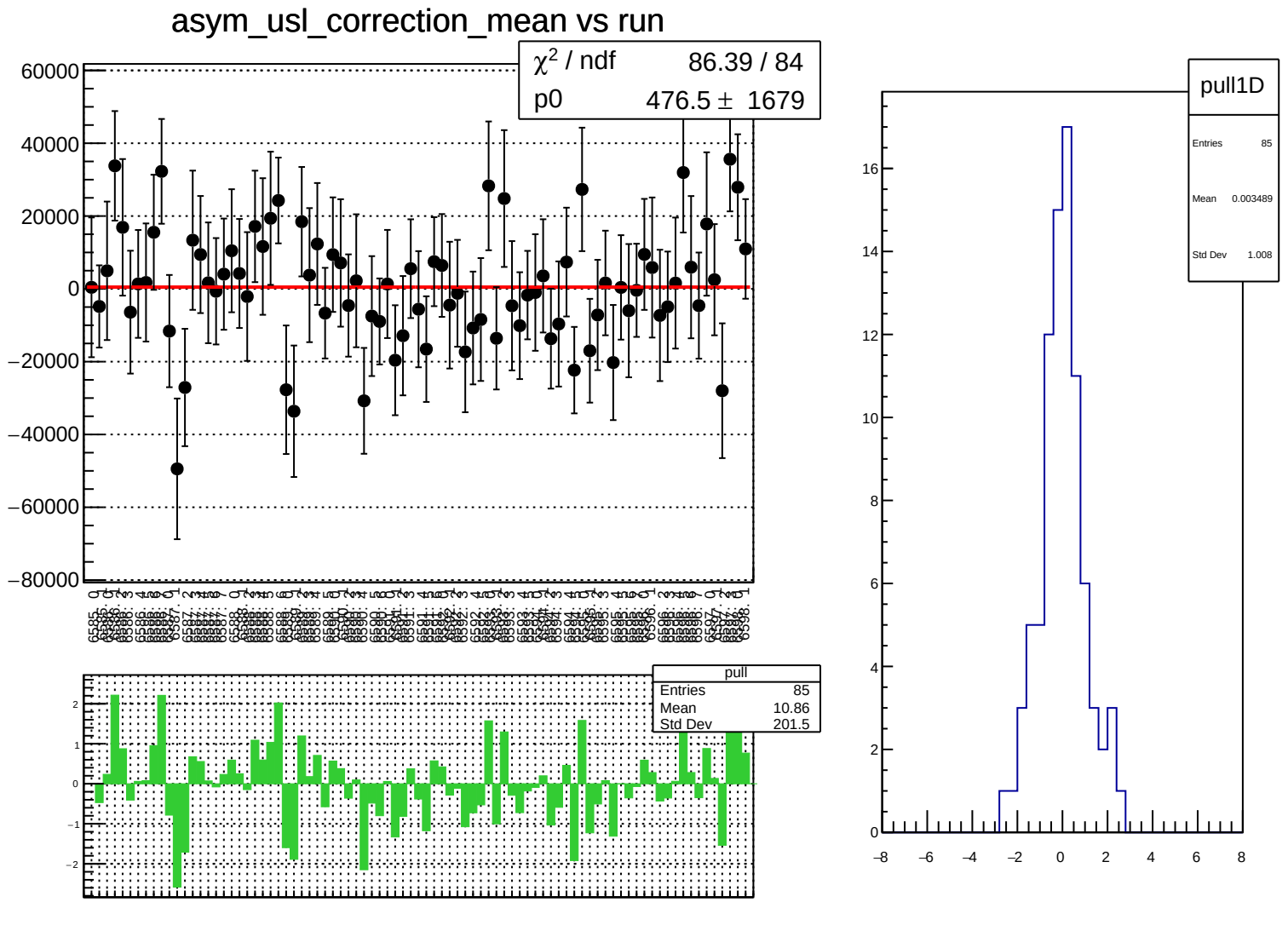

asym_ds_dd_mean vs run
χ² / ndf 69.69 / 84
p0 1.176 ± 93.75
pull
Entries 85
Mean −1317
Std Dev 1345


pull1D
Entries 85
Mean 0.002002
Std Dev 0.9055

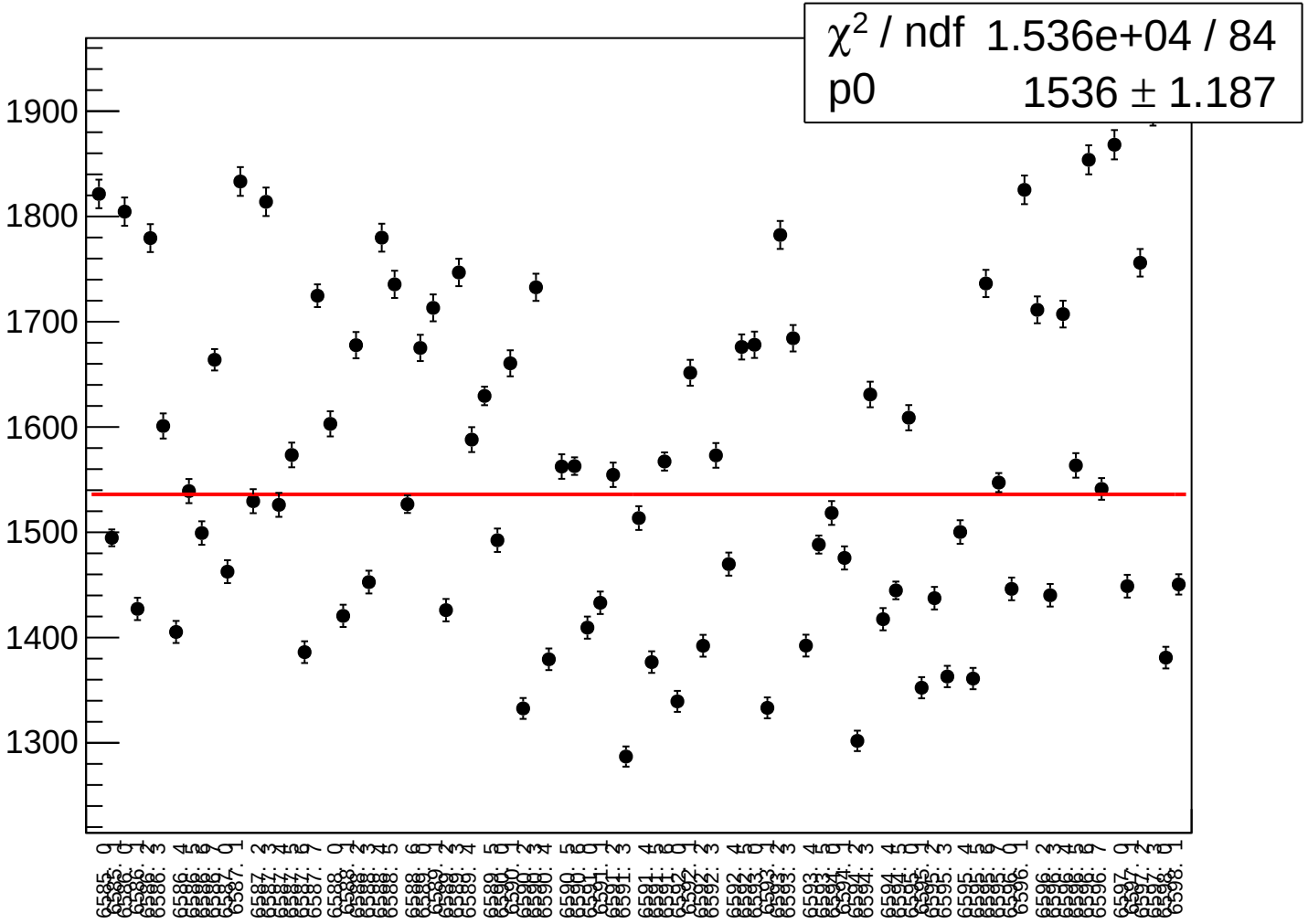

asym_ds_dd_rms vs run
χ^2 / ndf 153.2 / 84
p0 86.16 ± 0.06629
89
88
87
86
85
84
83

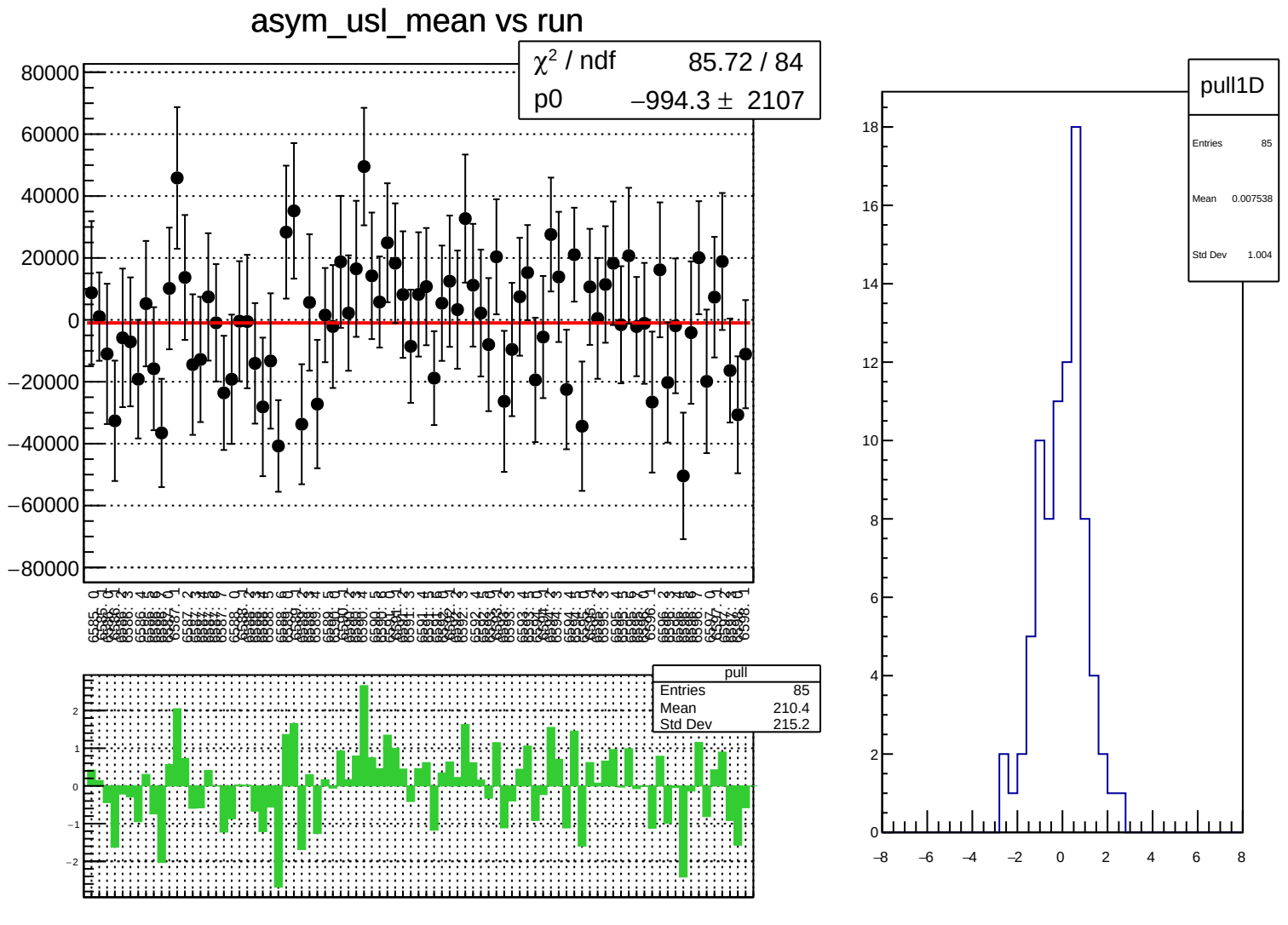

reg_asym_usl_mean vs run
χ² / ndf 76.01 / 84
p0 −329.7 ± 1260
pull
Entries 85
Mean 308.5
Std Dev 274.4
pull1D
Entries 85
Mean 0.008177
Std Dev 0.9456

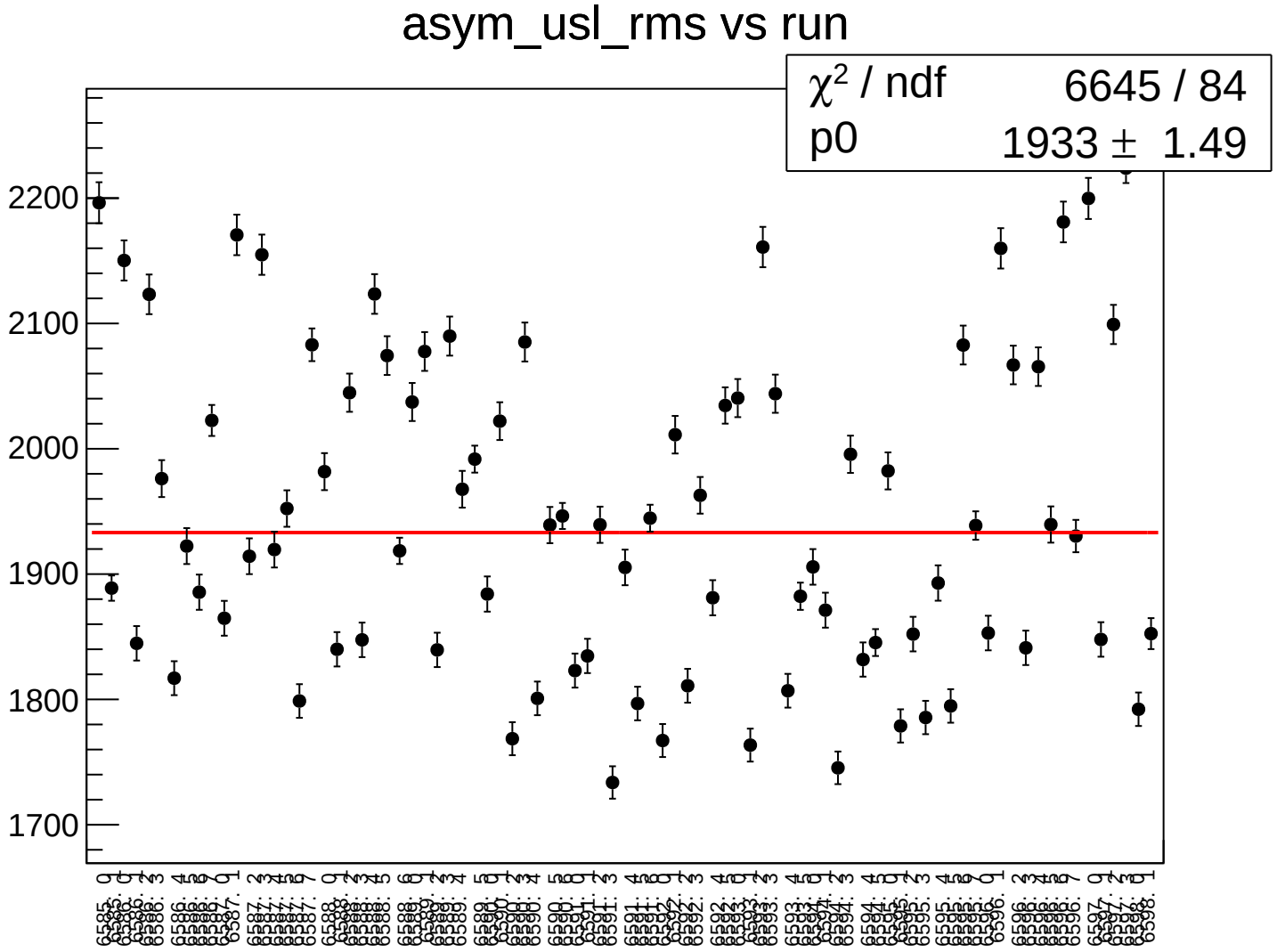

reg_asym_usl_rms vs run
χ² / ndf 186.1 / 84
p0 1158 ± 0.8908
1240
1220
1200
1180
1160
1140
1120

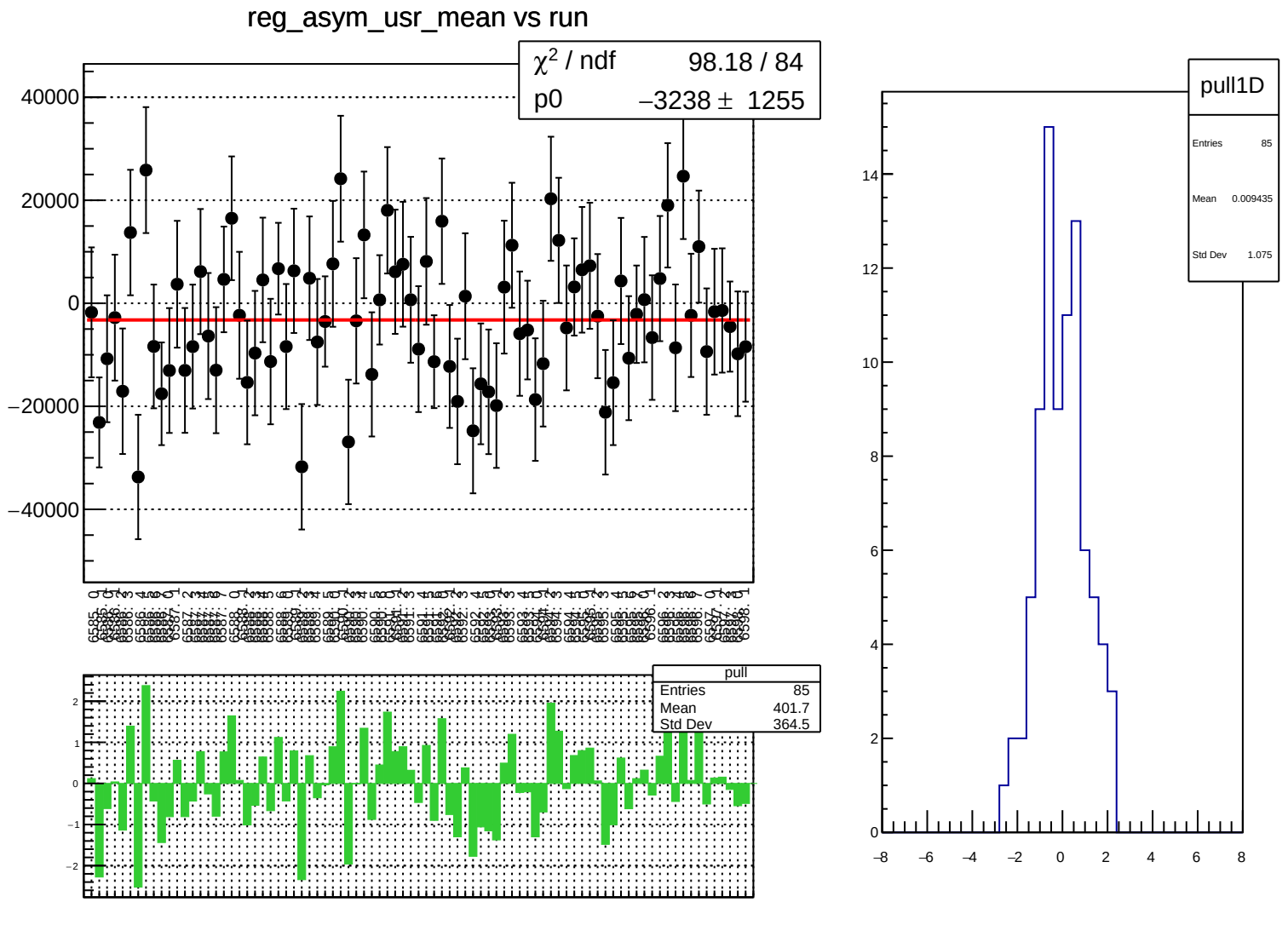

asym_usl_correction_mean vs run
χ² / ndf 86.39 / 84
p0 476.5 ± 1679
pull
Entries 85
Mean 10.86
Std Dev 201.5
pull1D
Entries 85
Mean 0.003489
Std Dev 1.008

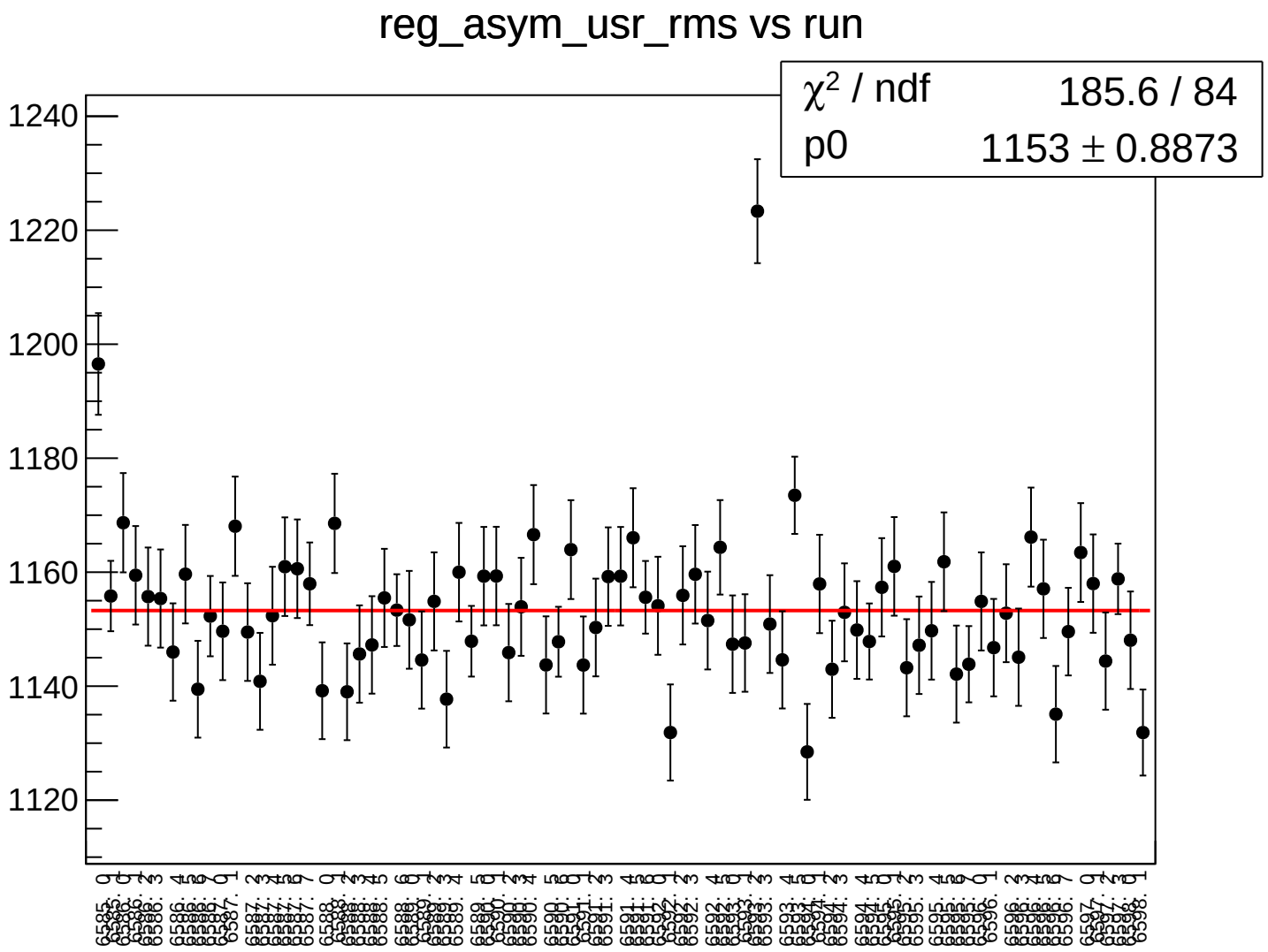
asym_usl_correction_rms vs run

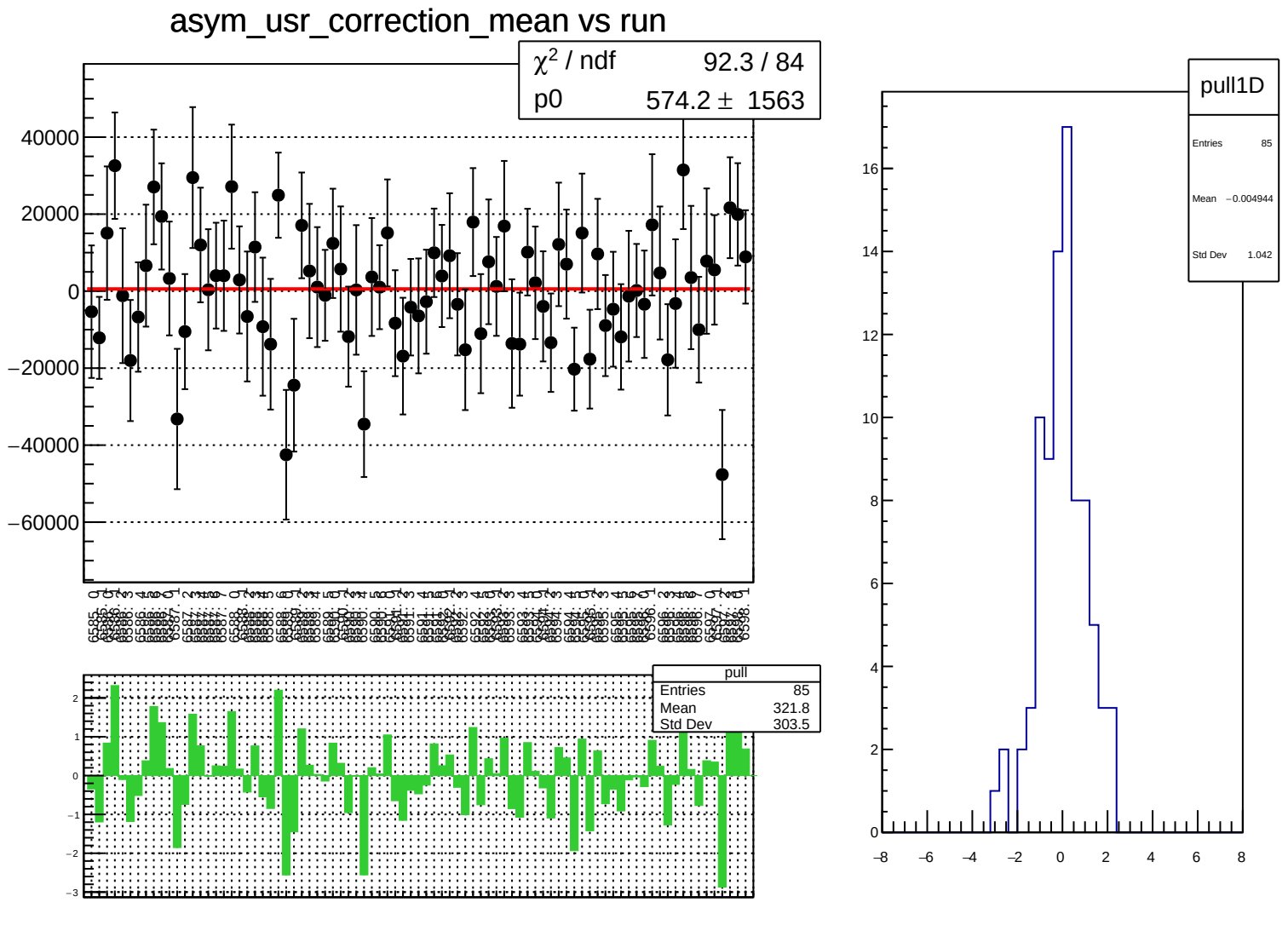



asym_usl_mean vs run
χ² / ndf 85.72 / 84
p0 −994.3 ± 2107
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 210.4
Std Dev 215.2
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.007538
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

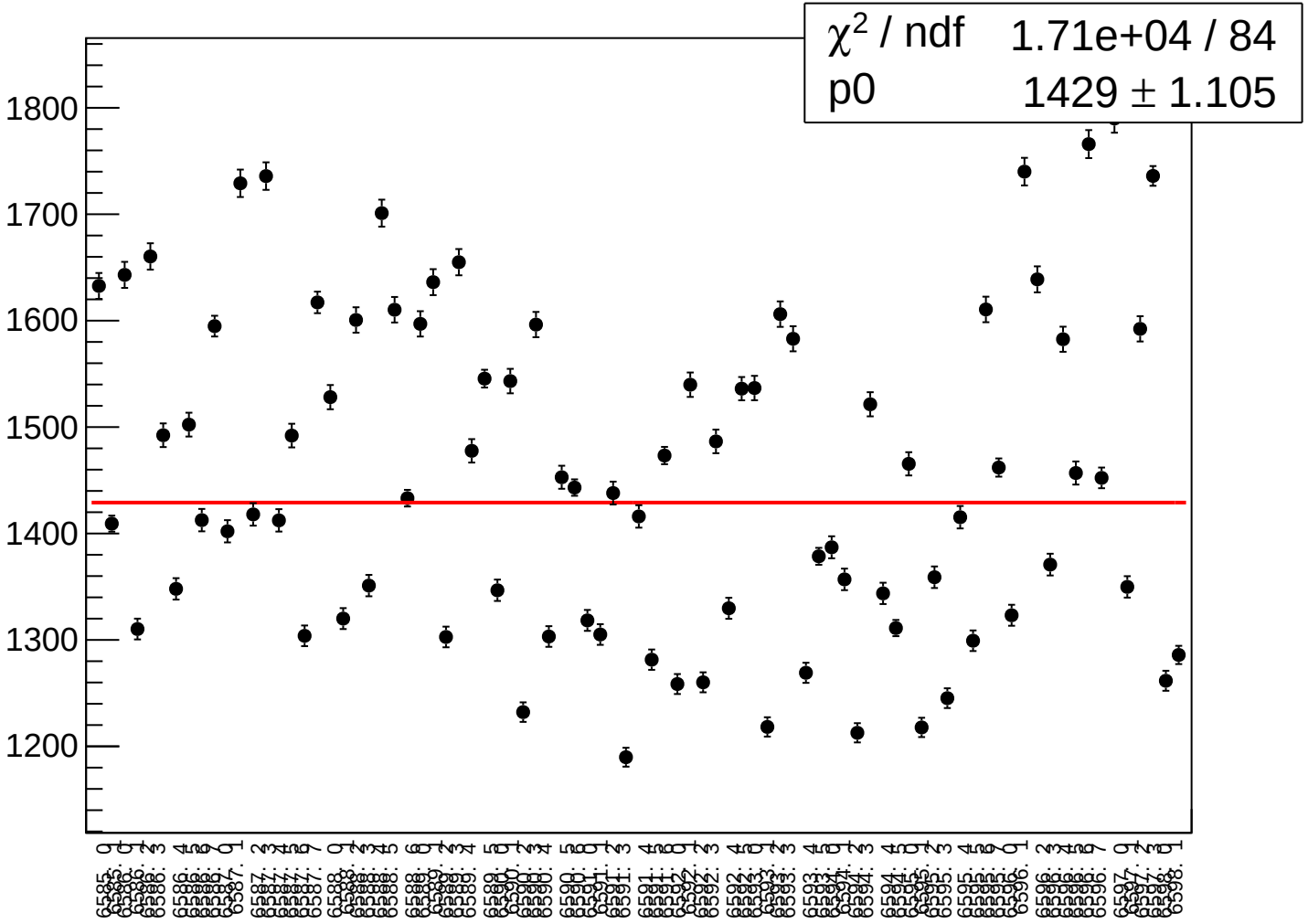

asym_usl_rms vs run
χ² / ndf 6645 / 84
p0 1933 ± 1.49
2200
2100
2000
1900
1800
1700

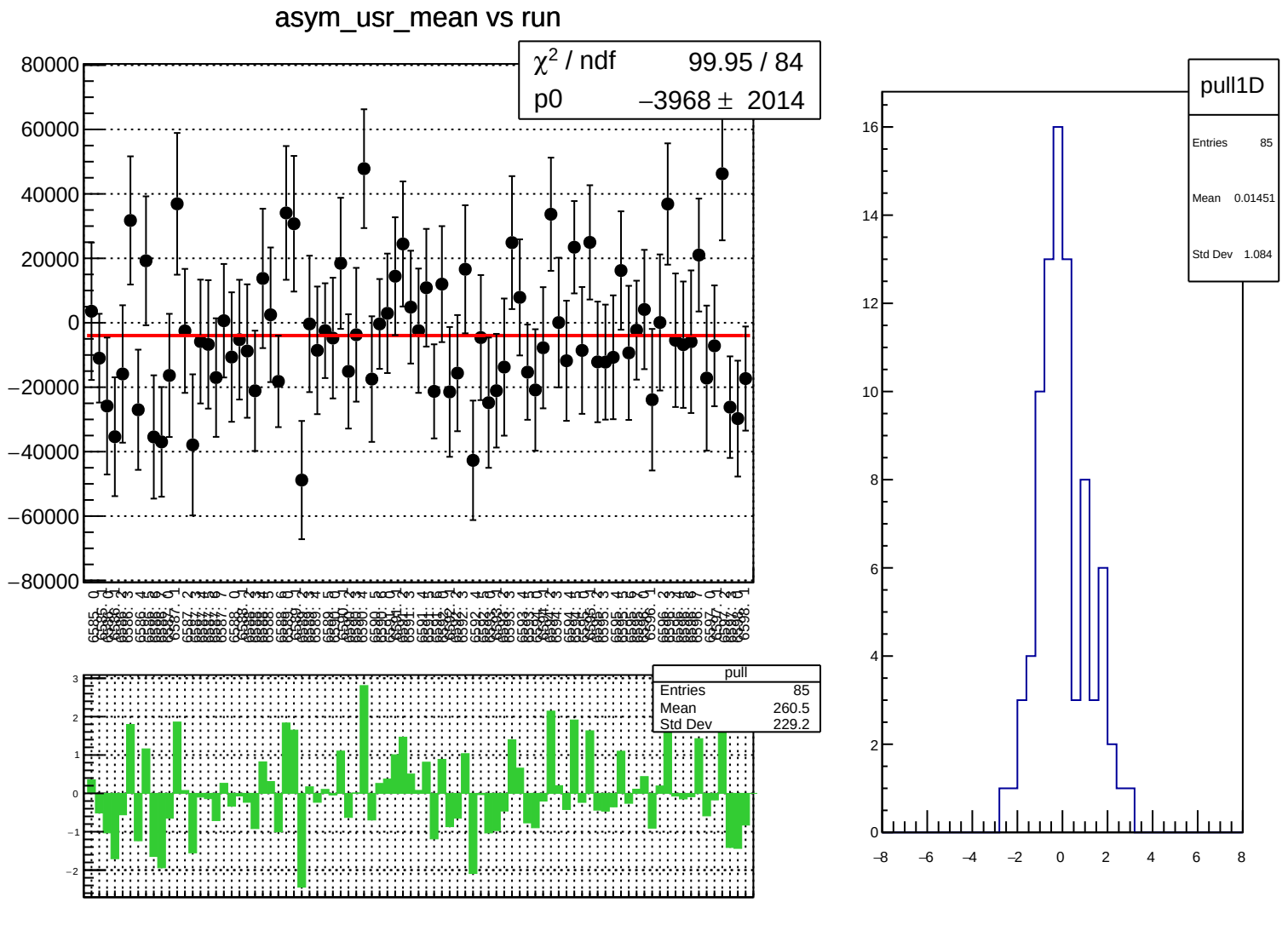

reg_asym_usr_mean vs run
χ² / ndf 98.18 / 84
p0 −3238 ± 1255
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 401.7
Std Dev 364.5
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.009435
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

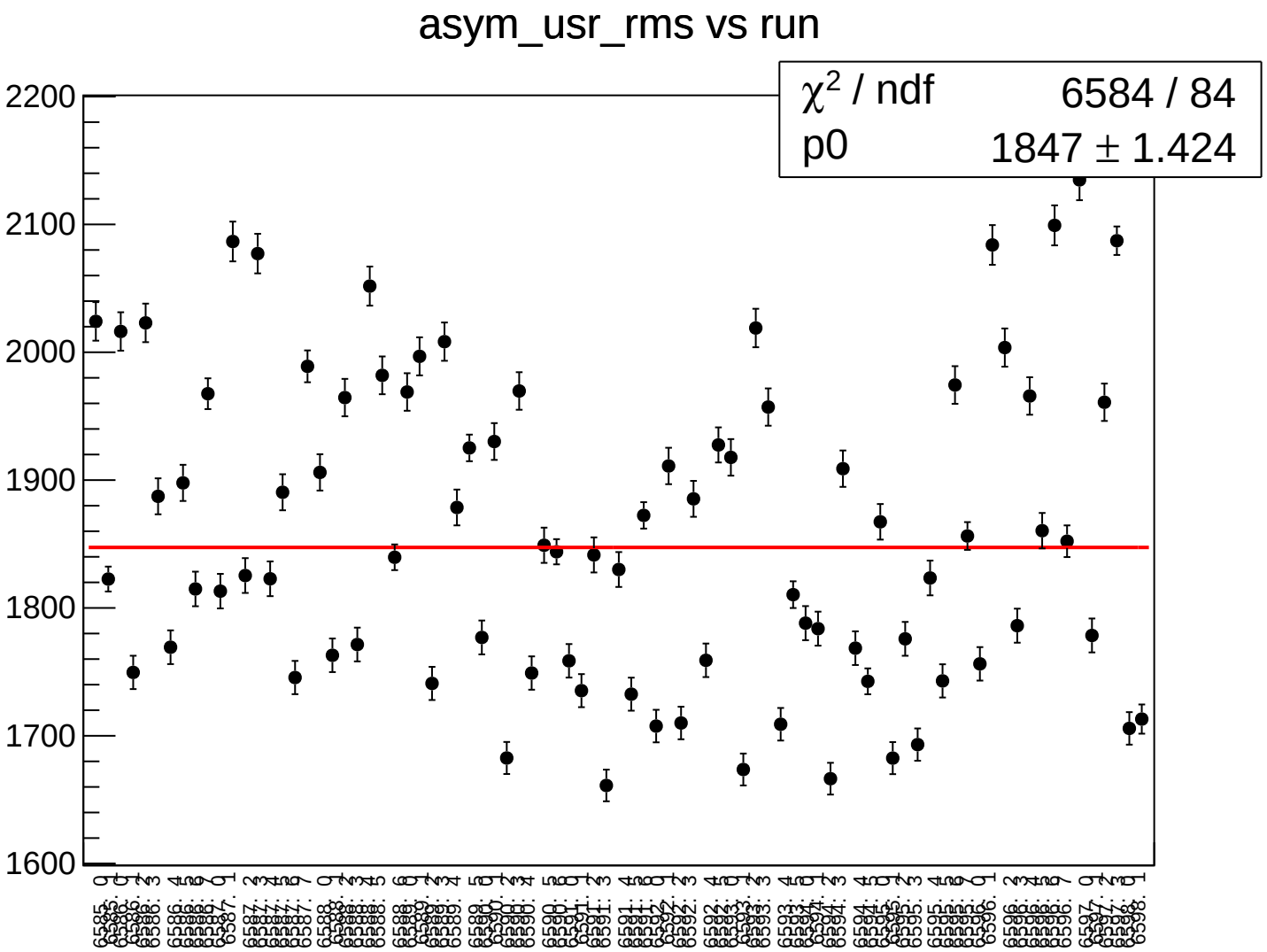

reg_asym_usr_rms vs run
χ² / ndf 185.6 / 84
p0 1153 ± 0.8873
1240
1220
1200
1180
1160
1140
1120

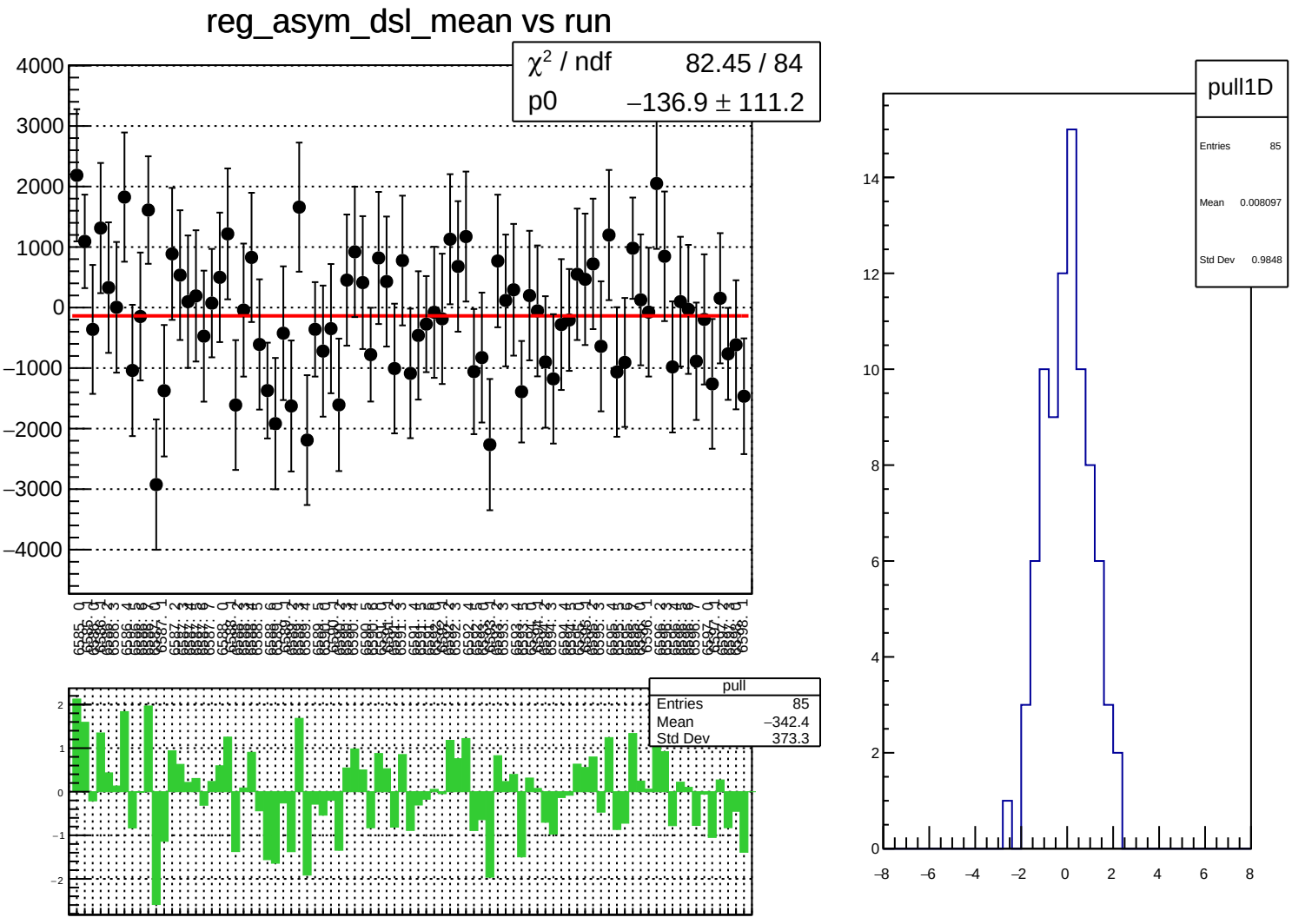

asym_usr_correction_mean vs run
χ² / ndf 92.3 / 84
p0 574.2 ± 1563
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 321.8
Std Dev 303.5
pull1D
Entries 85
Mean −0.004944
Std Dev 1.042

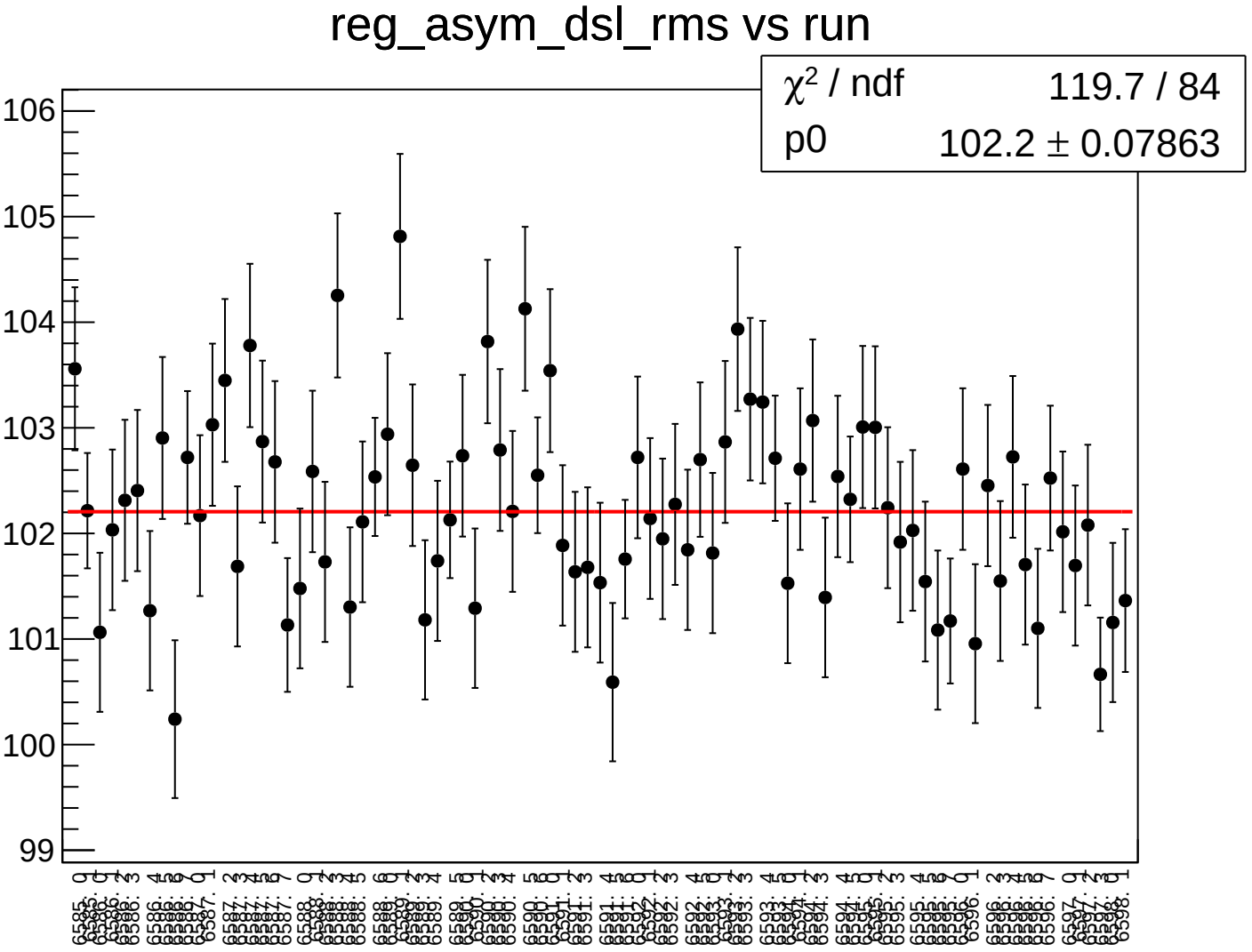
asym_usr_correction_rms vs run

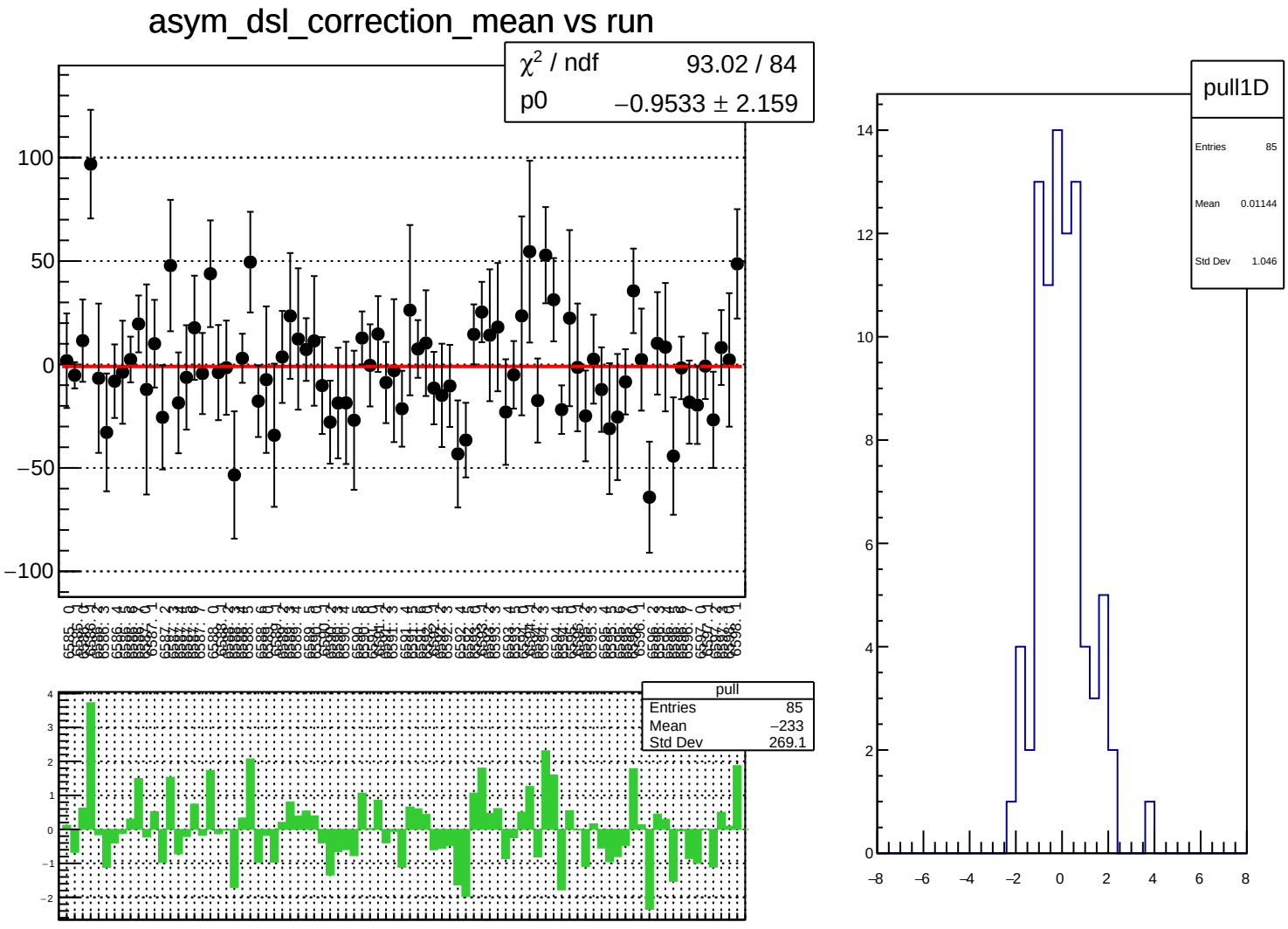



asym_usr_mean vs run
χ² / ndf 99.95 / 84
p0 −3968 ± 2014
pull
Entries 85
Mean 260.5
Std Dev 229.2
pull1D
Entries 85
Mean 0.01451
Std Dev 1.084

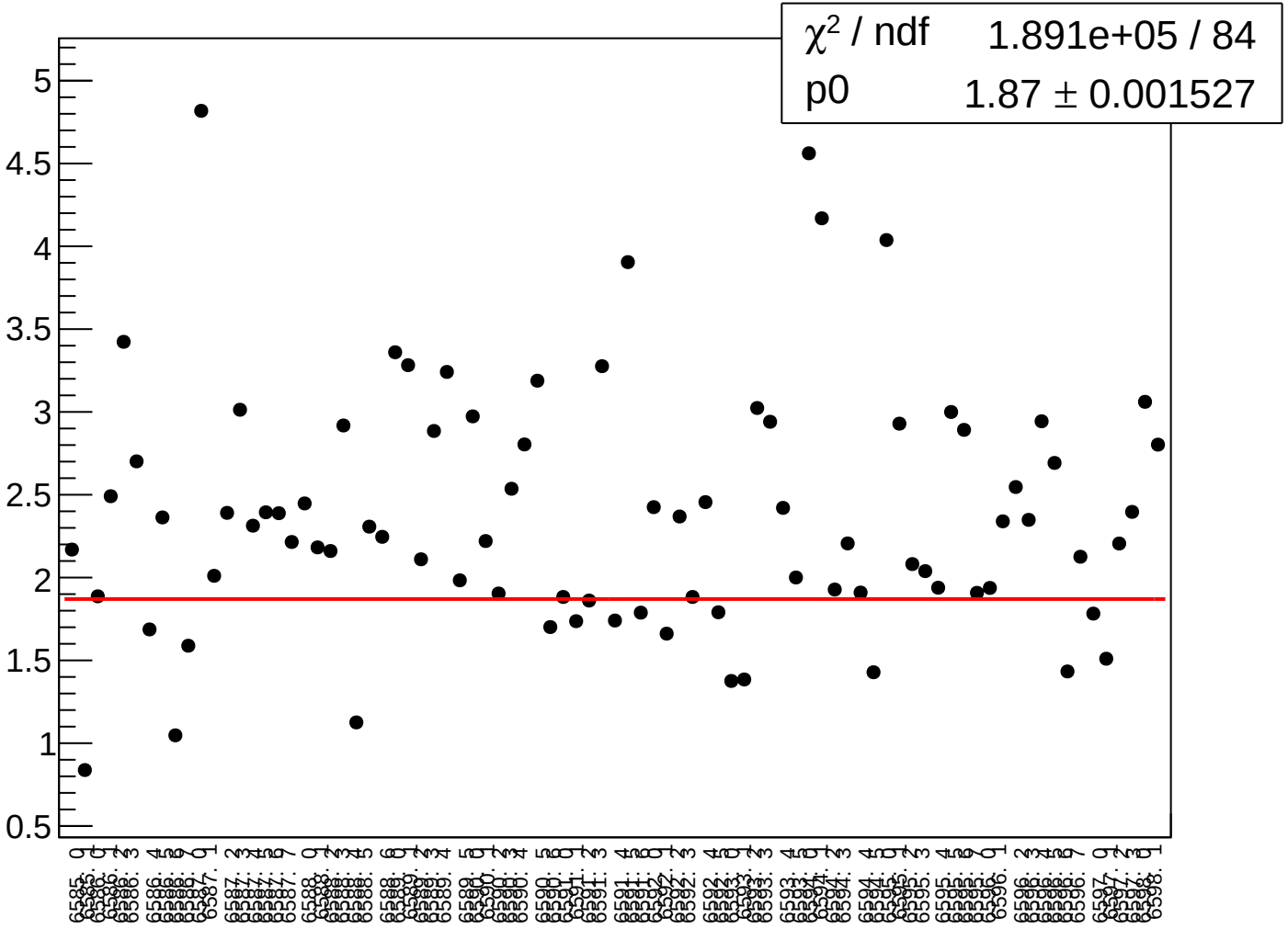

asym_usr_rms vs run
χ^2 / ndf 6584 / 84
p0 1847 ± 1.424
2200
2100
2000
1900
1800
1700
1600

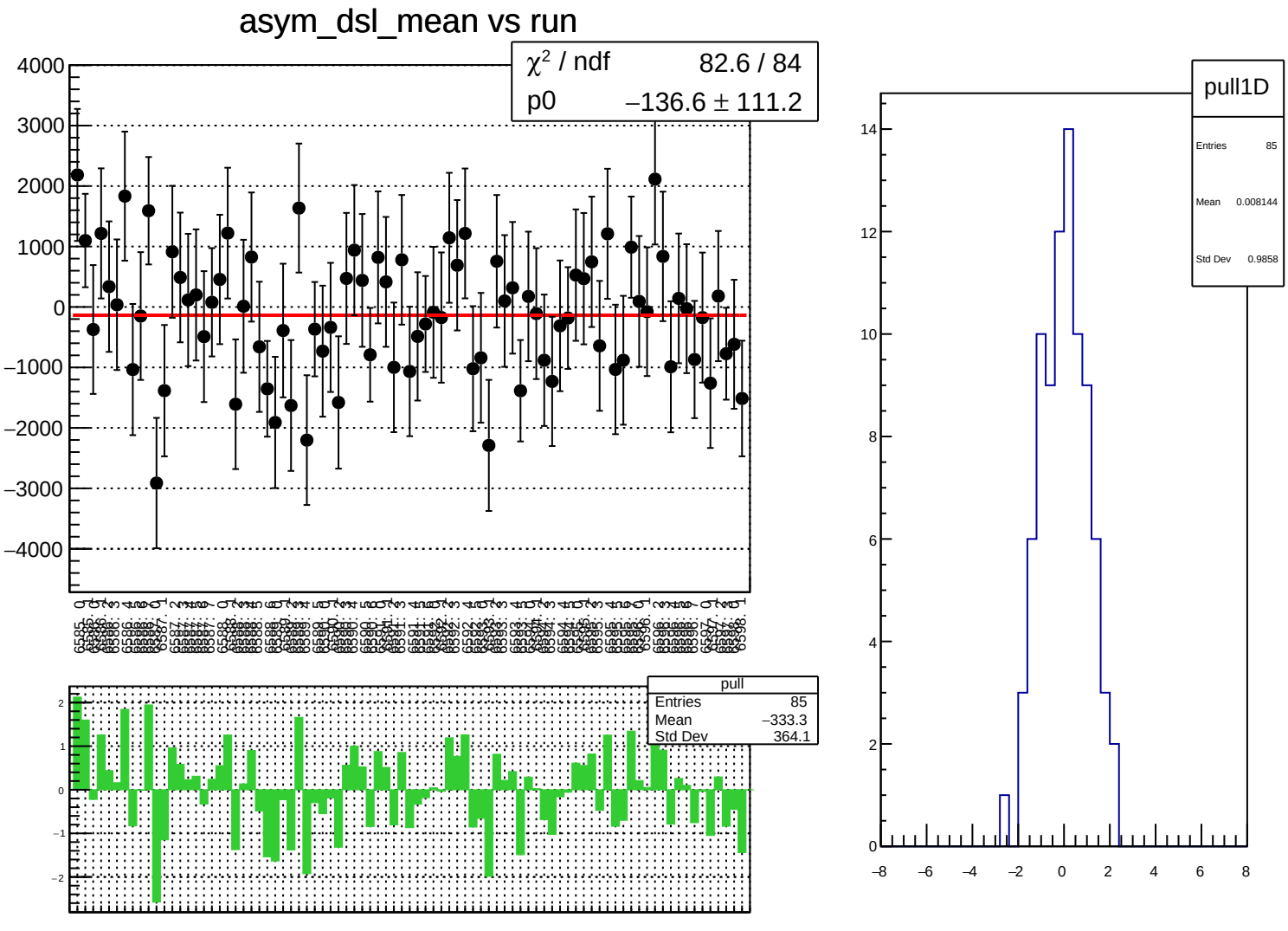

reg_asym_dsl_mean vs run
χ² / ndf 82.45 / 84
p0 −136.9 ± 111.2
pull
Entries 85
Mean −342.4
Std Dev 373.3
pull1D
Entries 85
Mean 0.008097
Std Dev 0.9848


reg_asym_dsl_rms vs run
χ² / ndf 119.7 / 84
p0 102.2 ± 0.07863
106
105
104
103
102
101
100
99

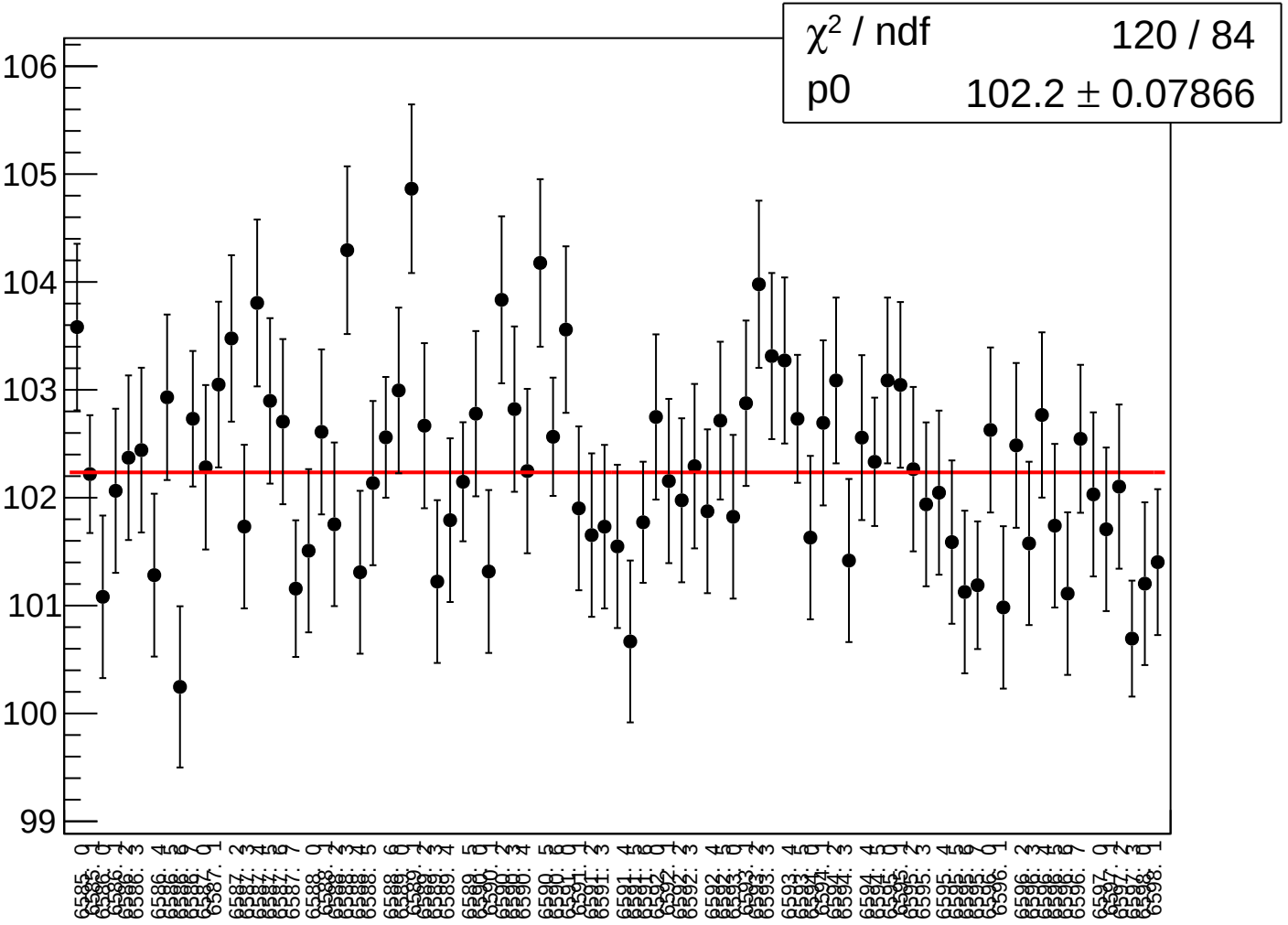

asym_dsl_correction_mean vs run
χ^2 / ndf 93.02 / 84
p0 −0.9533 ± 2.159
pull
Entries 85
Mean −233
Std Dev 269.1
pull1D
Entries 85
Mean 0.01144
Std Dev 1.046

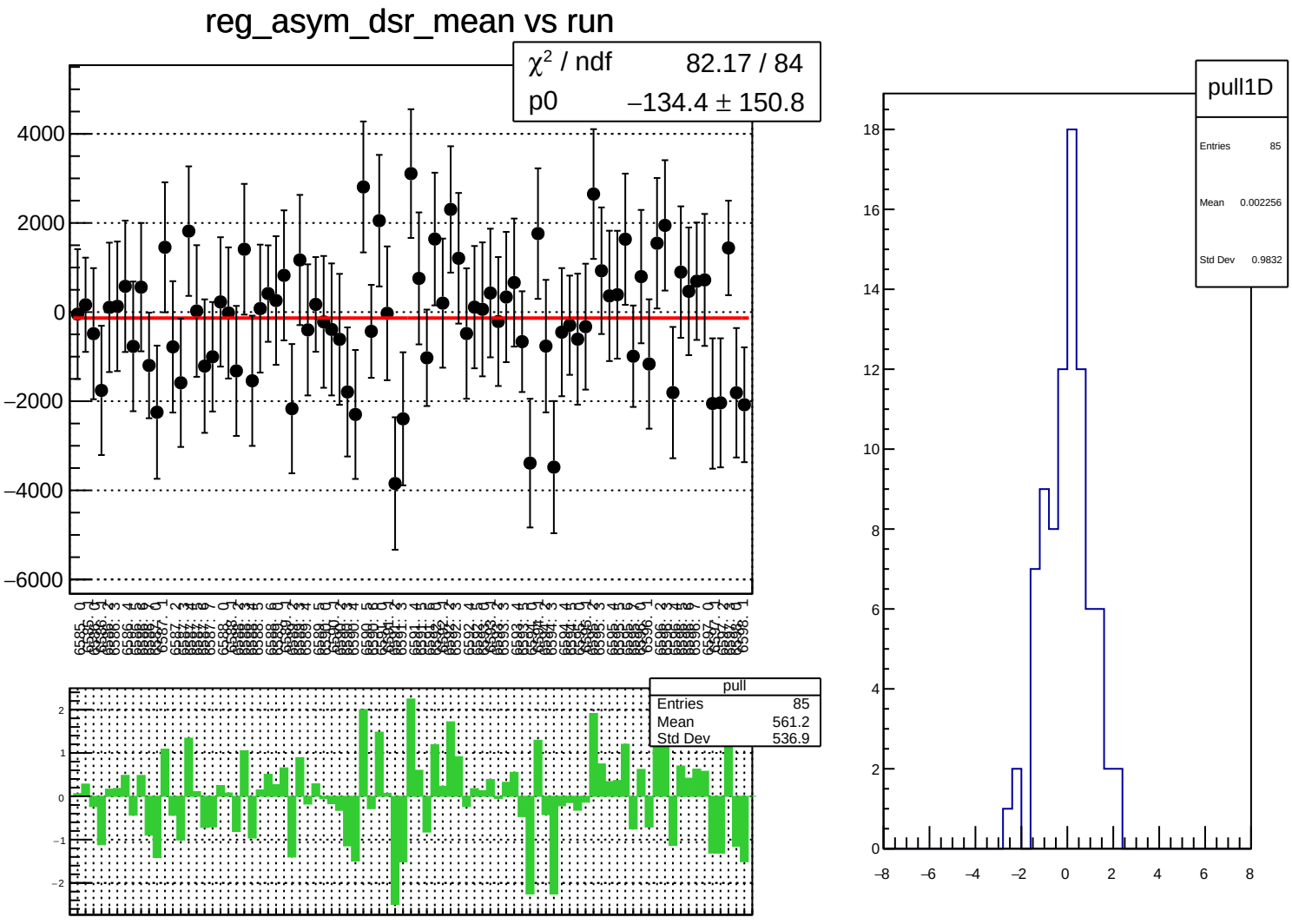
asym_dsl_correction_rms vs run

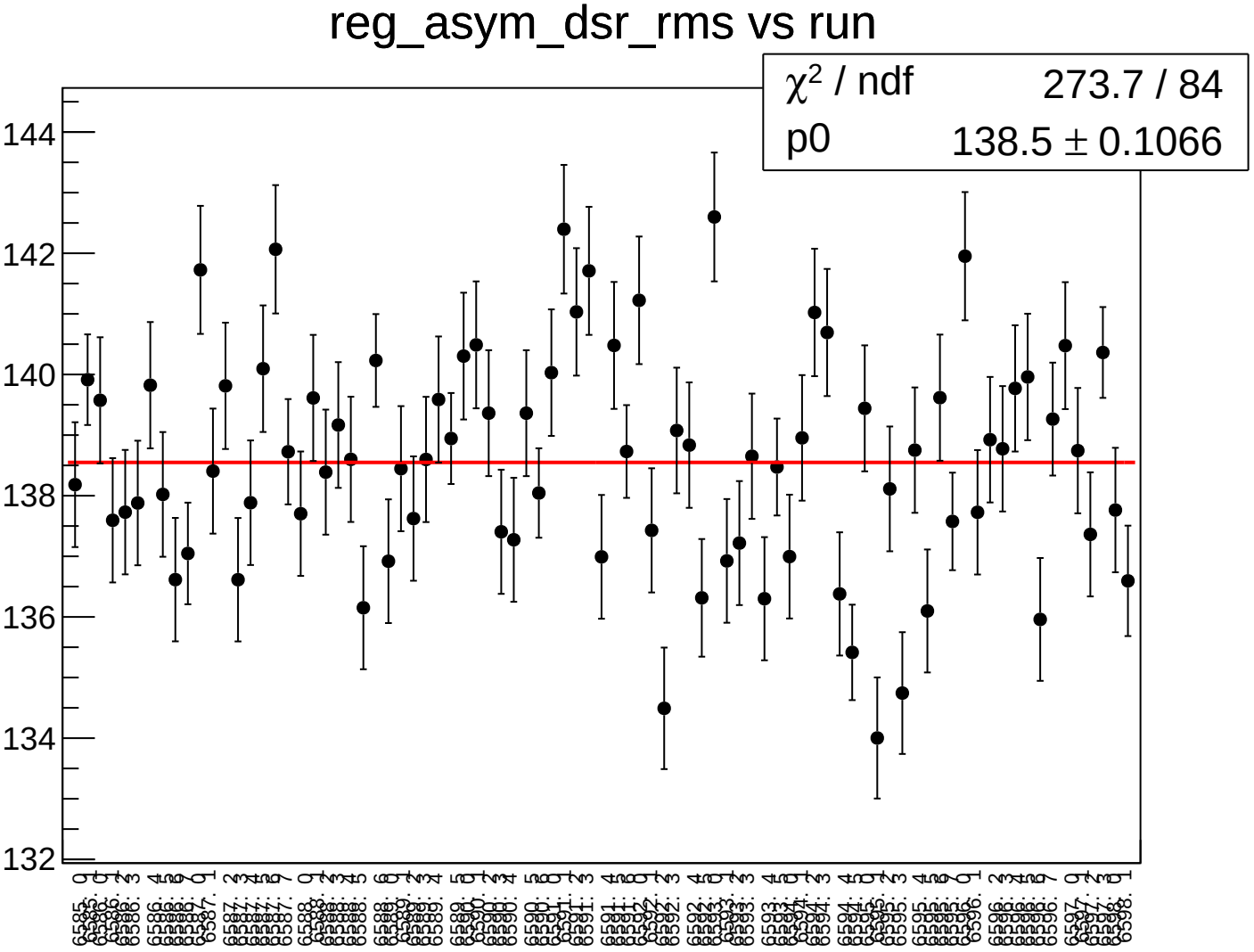


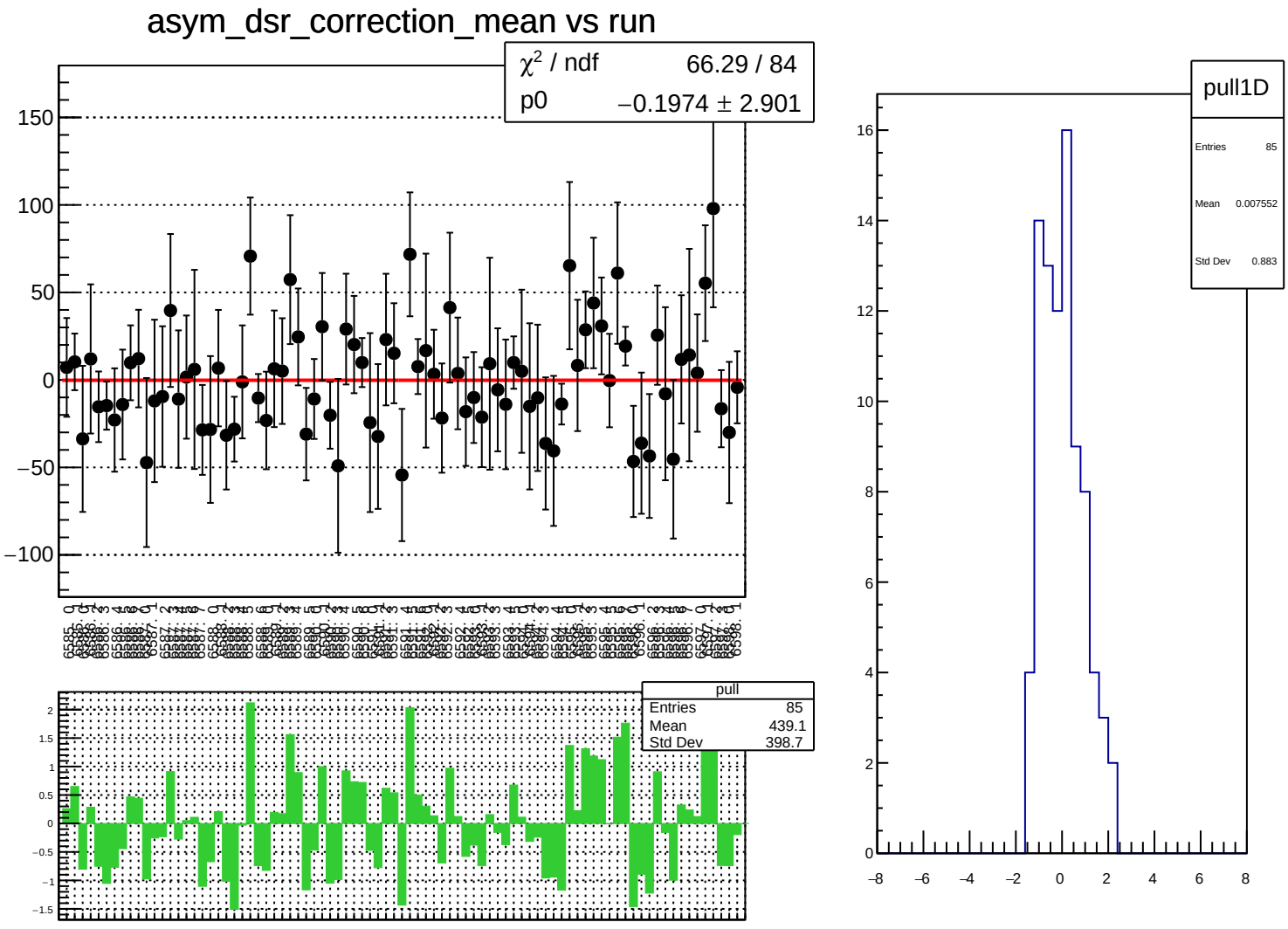

asym_dsl_mean vs run
χ^2 / ndf 82.6 / 84
p0 −136.6 ± 111.2
pull
Entries 85
Mean −333.3
Std Dev 364.1
pull1D
Entries 85
Mean 0.008144
Std Dev 0.9858

asym_dsl_rms vs run

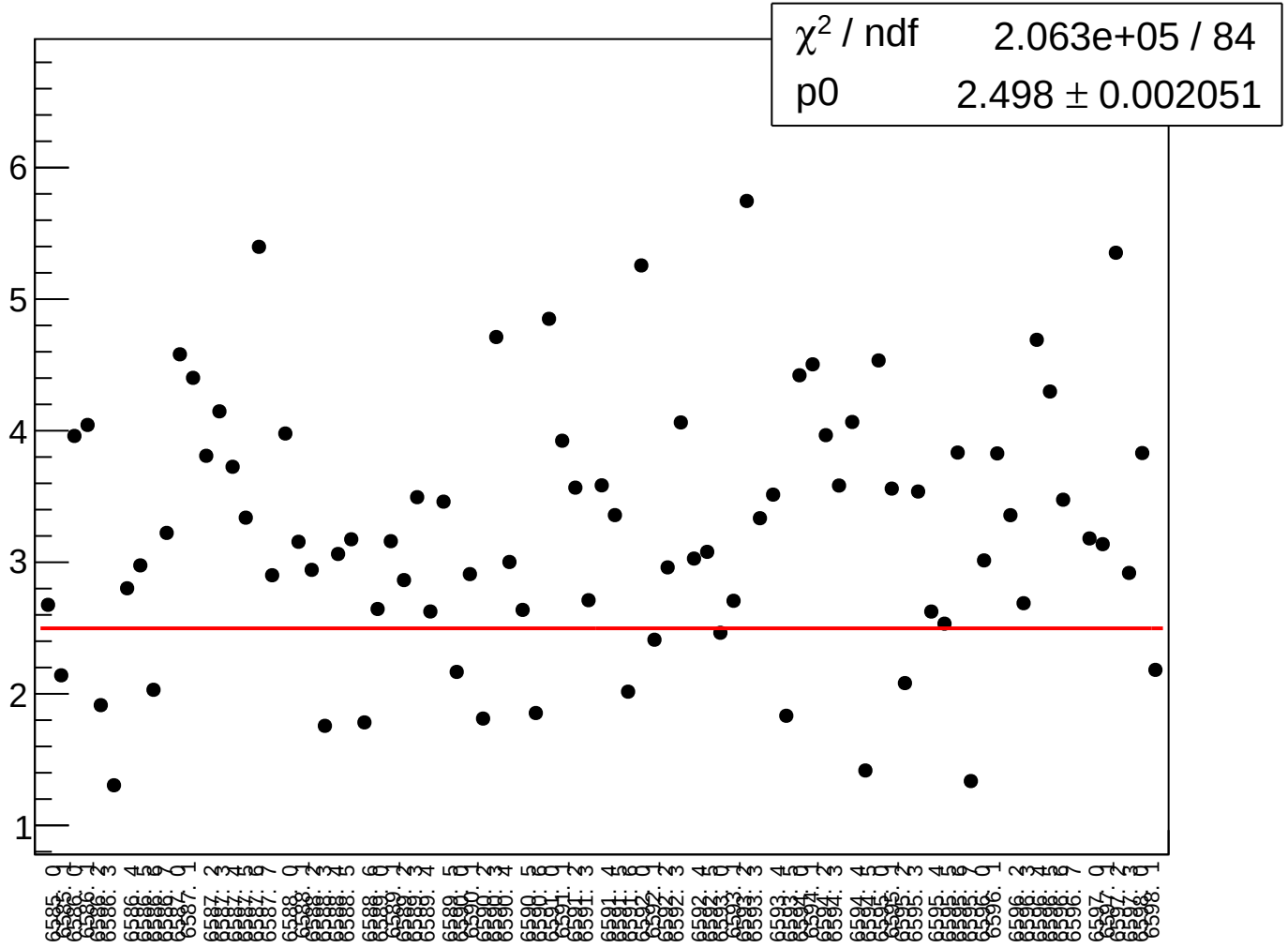


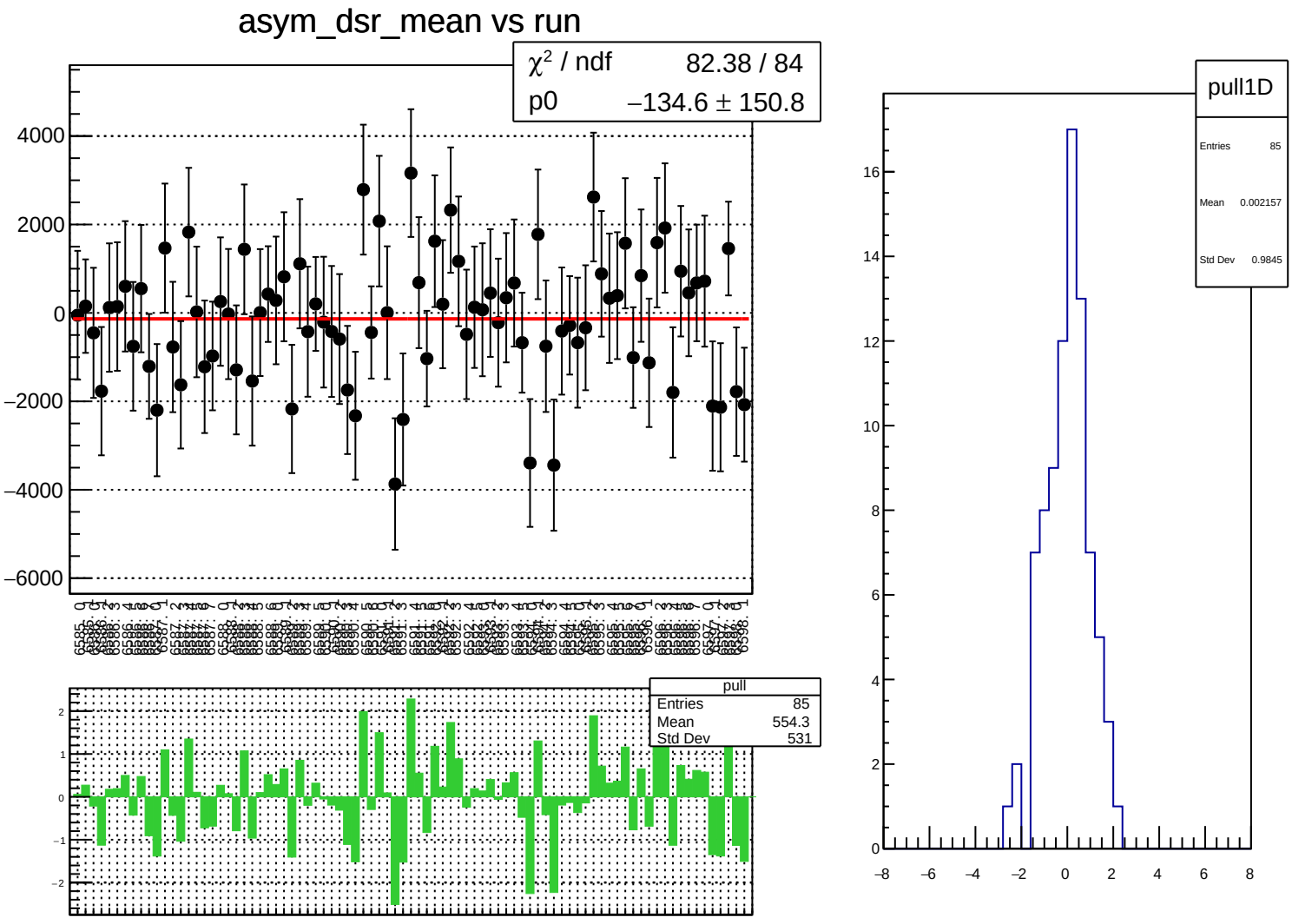

reg_asym_dsr_mean vs run
χ² / ndf 82.17 / 84
p0 −134.4 ± 150.8
pull
Entries 85
Mean 561.2
Std Dev 536.9
pull1D
Entries 85
Mean 0.002256
Std Dev 0.9832

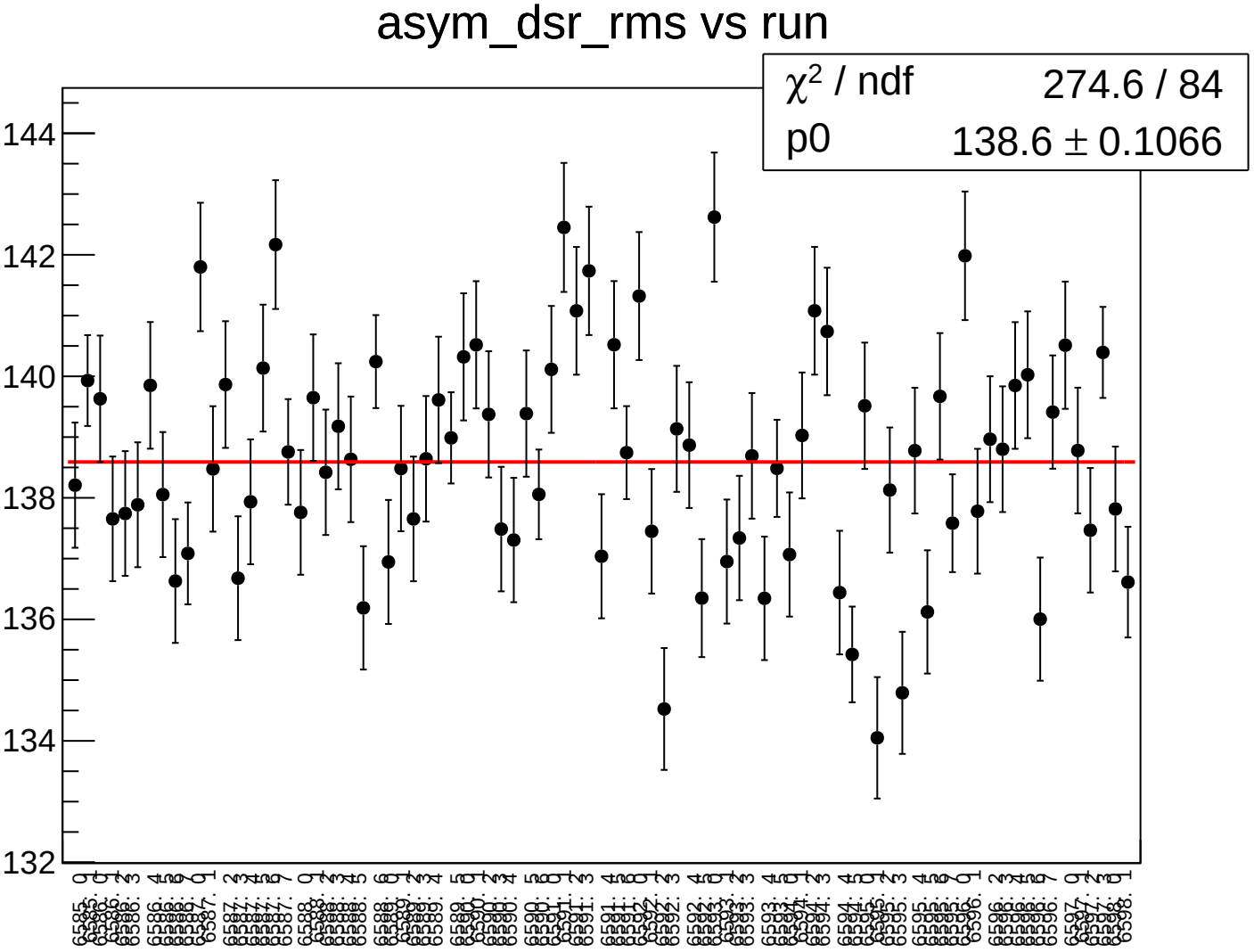

reg_asym_dsr_rms vs run
χ^2 / ndf 273.7 / 84
p0 138.5 ± 0.1066
144
142
140
138
136
134
132

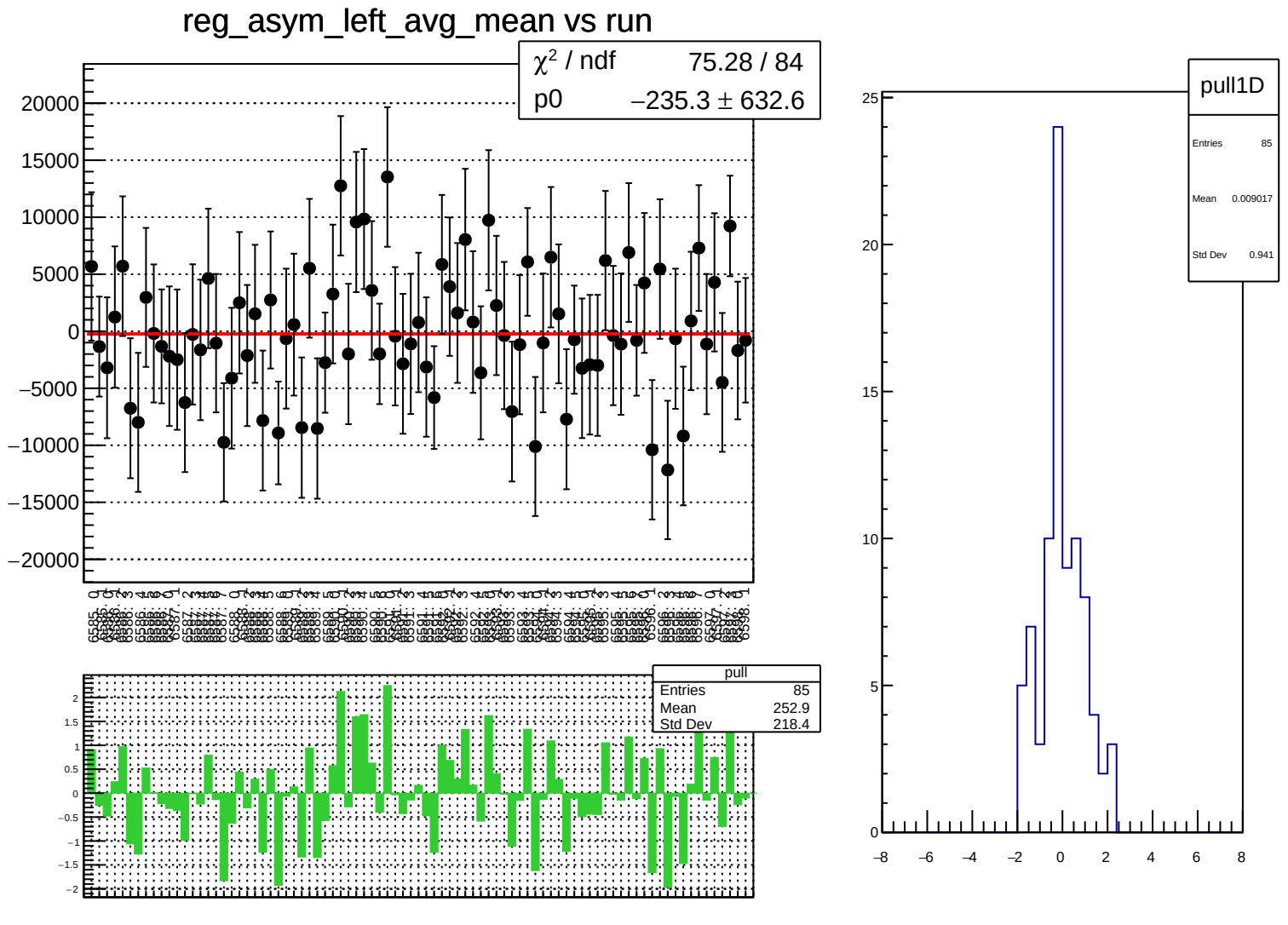

asym_dsr_correction_mean vs run
χ² / ndf 66.29 / 84
p0 −0.1974 ± 2.901
pull
Entries 85
Mean 439.1
Std Dev 398.7
pull1D
Entries 85
Mean 0.007552
Std Dev 0.883

asym_dsr_correction_rms vs run

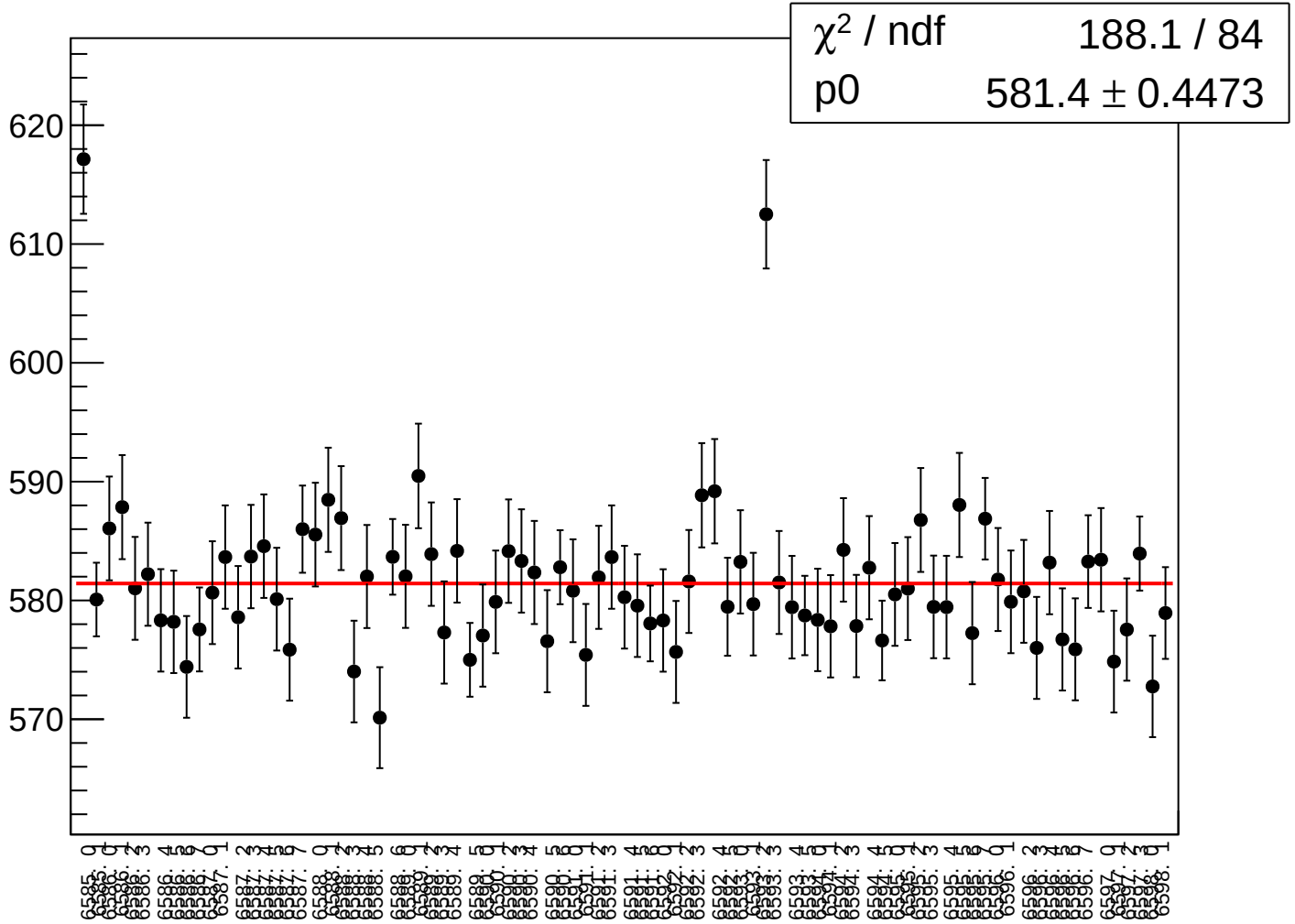


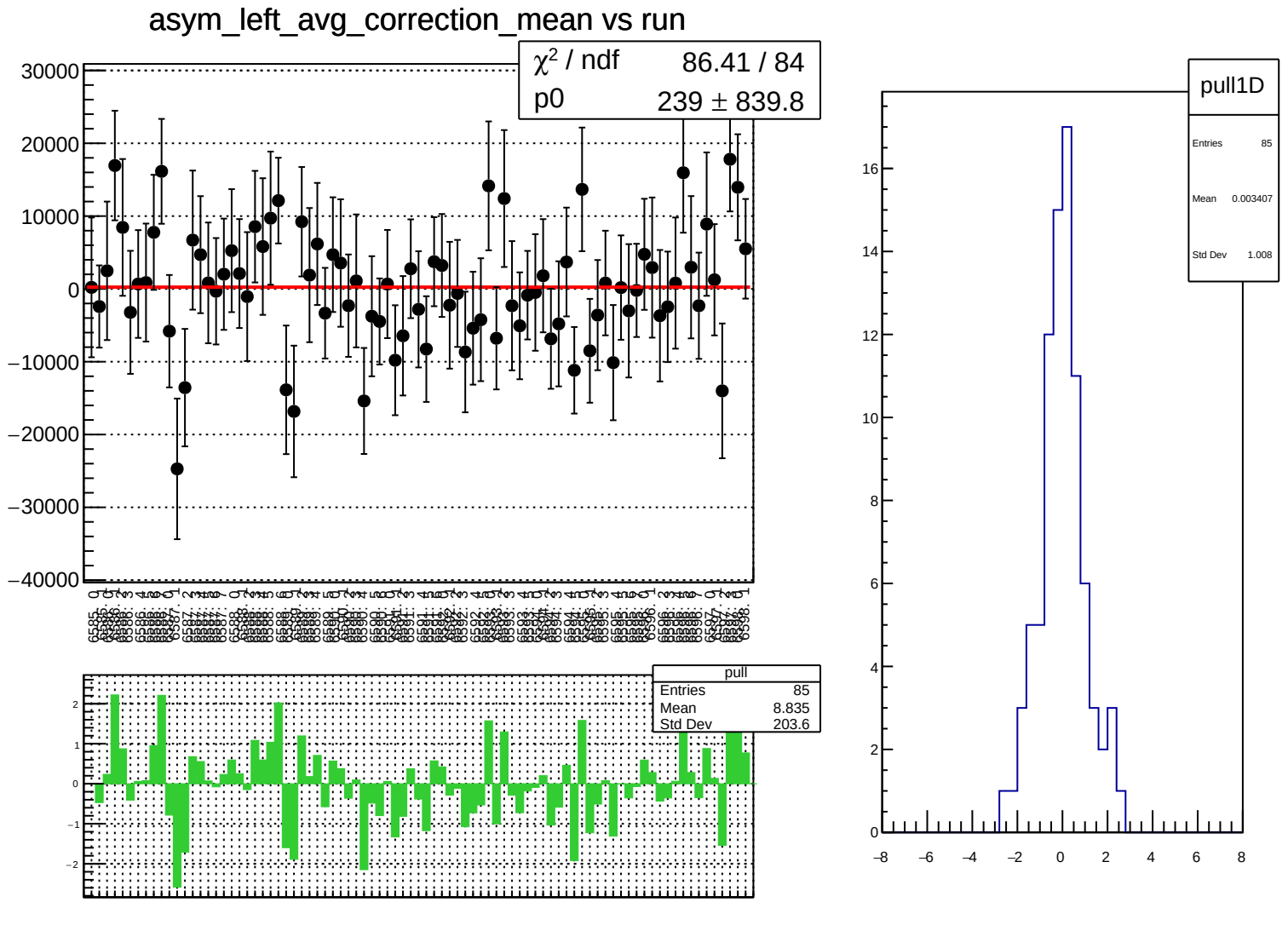

asym_dsr_mean vs run
χ² / ndf 82.38 / 84
p0 −134.6 ± 150.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 554.3
Std Dev 531
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.002157
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_rms vs run
χ^2 / ndf 274.6 / 84
p0 138.6 ± 0.1066
144
142
140
138
136
134
132

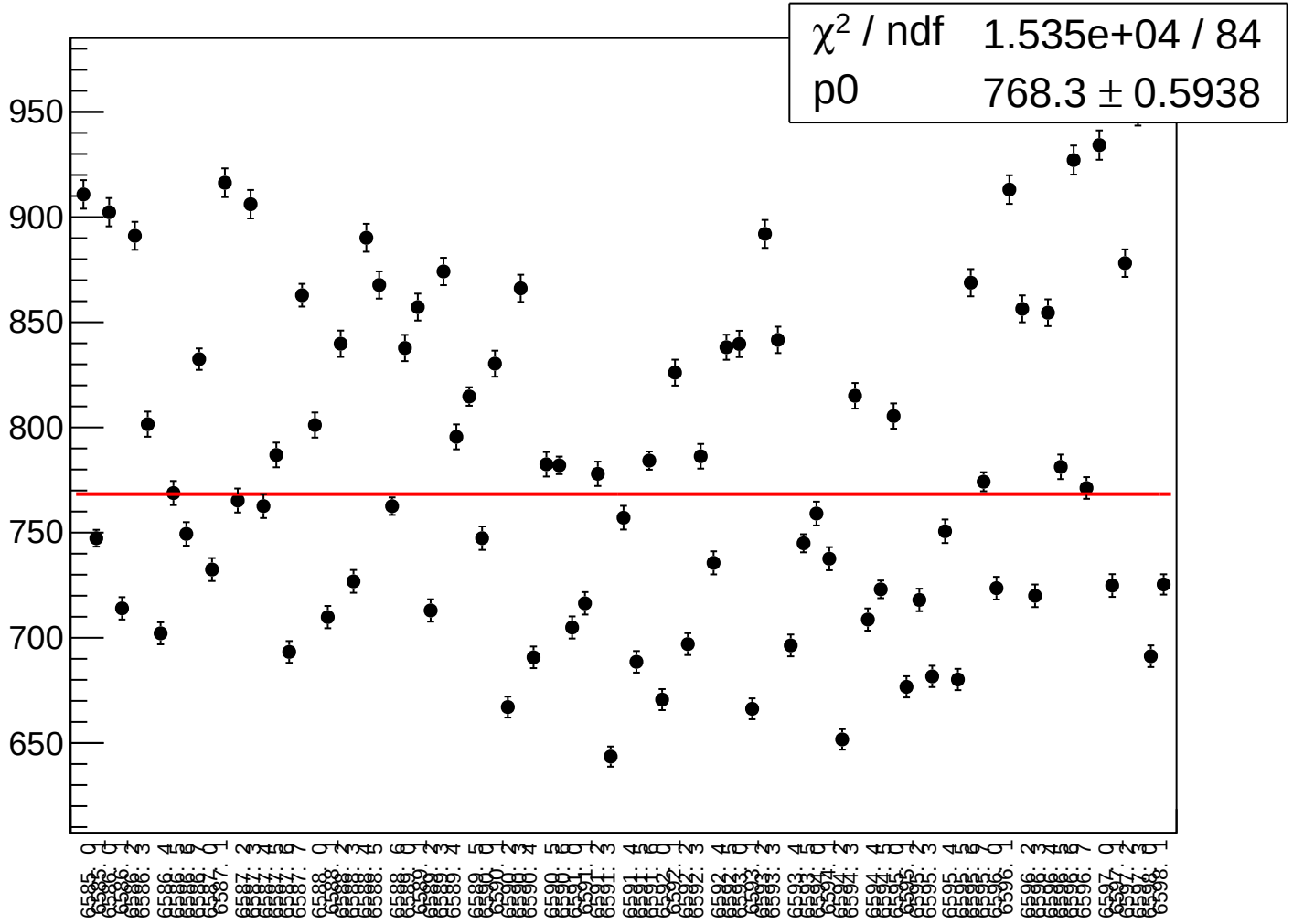

reg_asym_left_avg_mean vs run
χ² / ndf 75.28 / 84
p0 −235.3 ± 632.6
pull
Entries 85
Mean 252.9
Std Dev 218.4
pull1D
Entries 85
Mean 0.009017
Std Dev 0.941

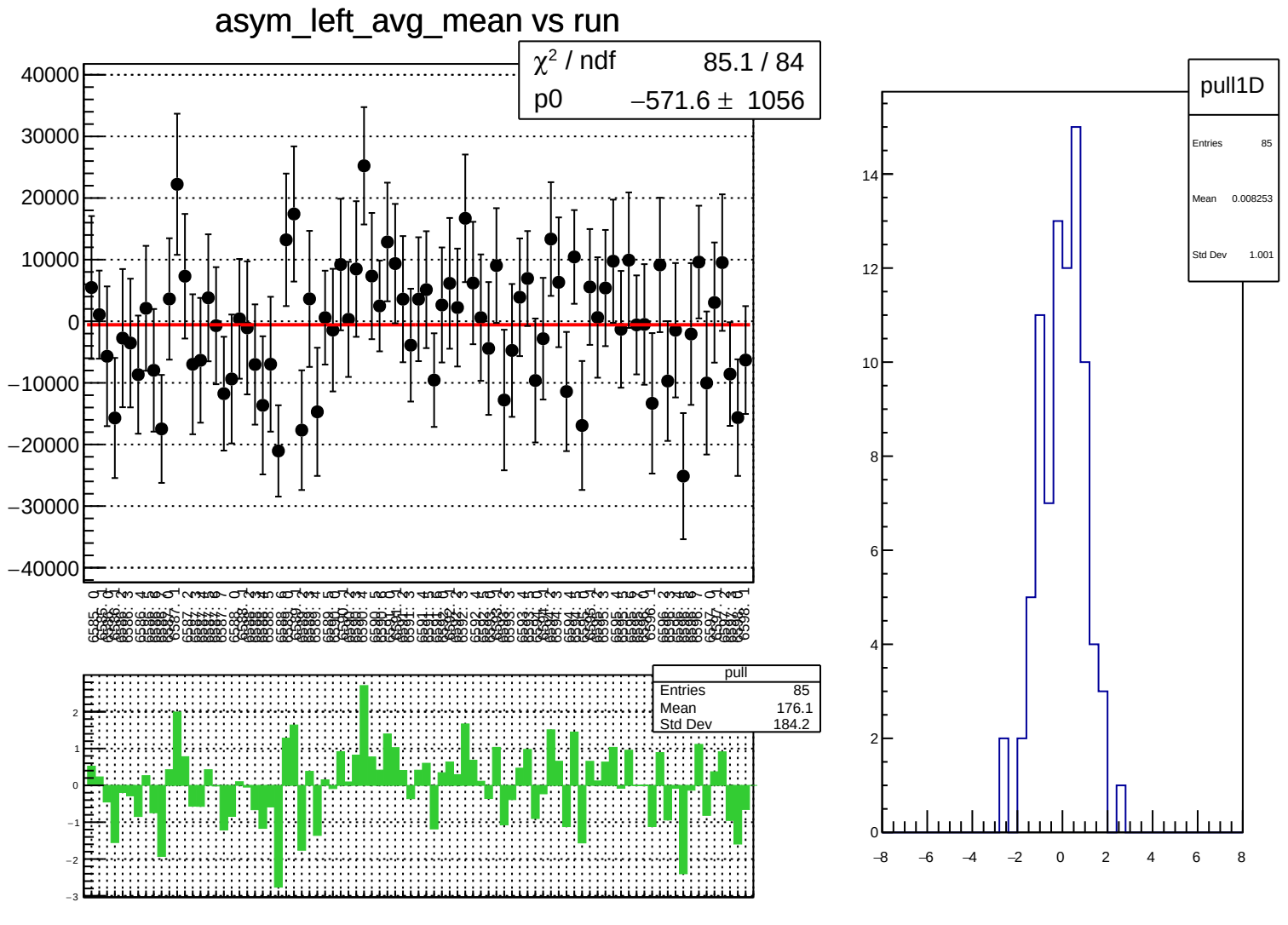
reg_asym_left_avg_rms vs run

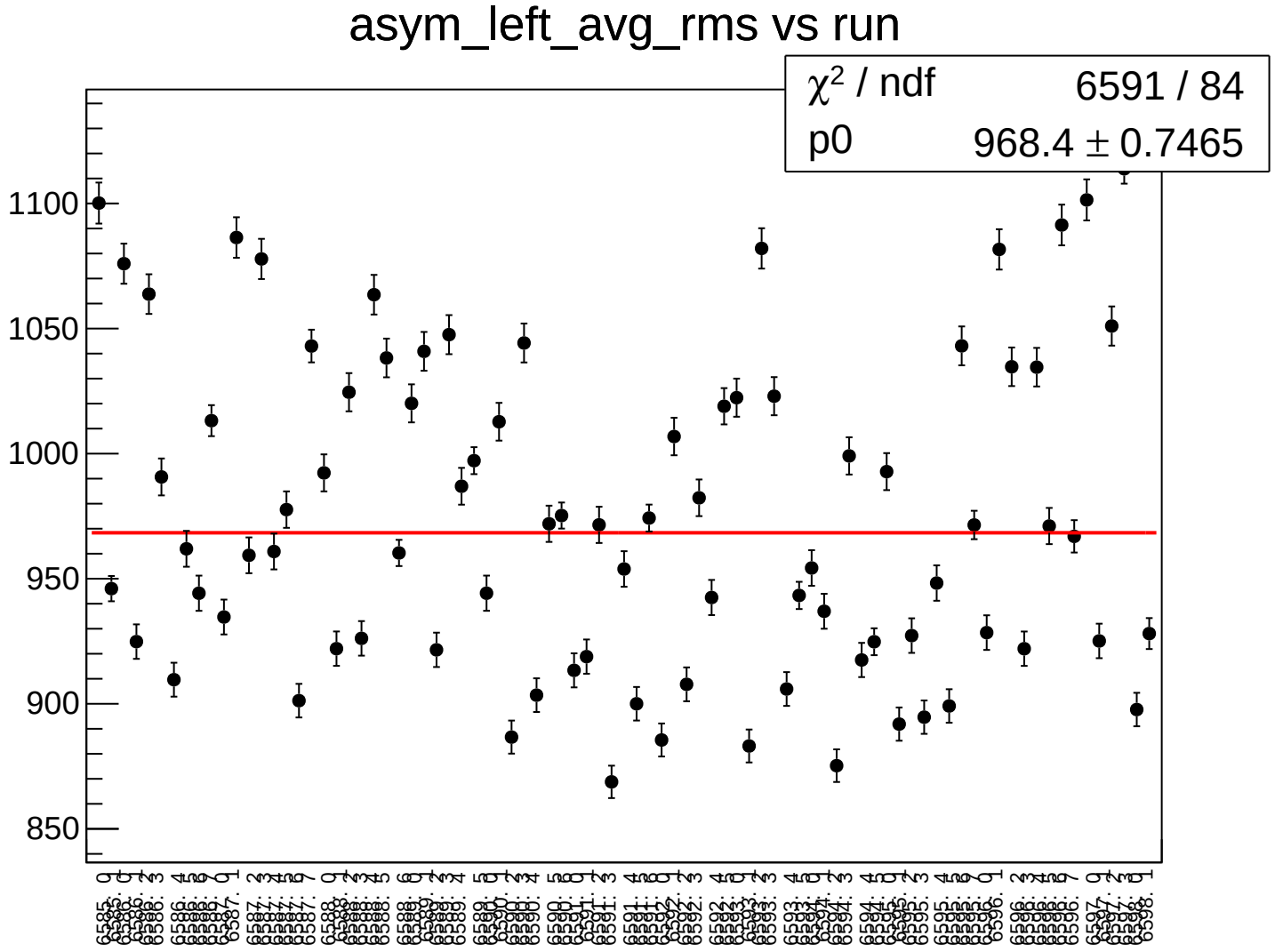


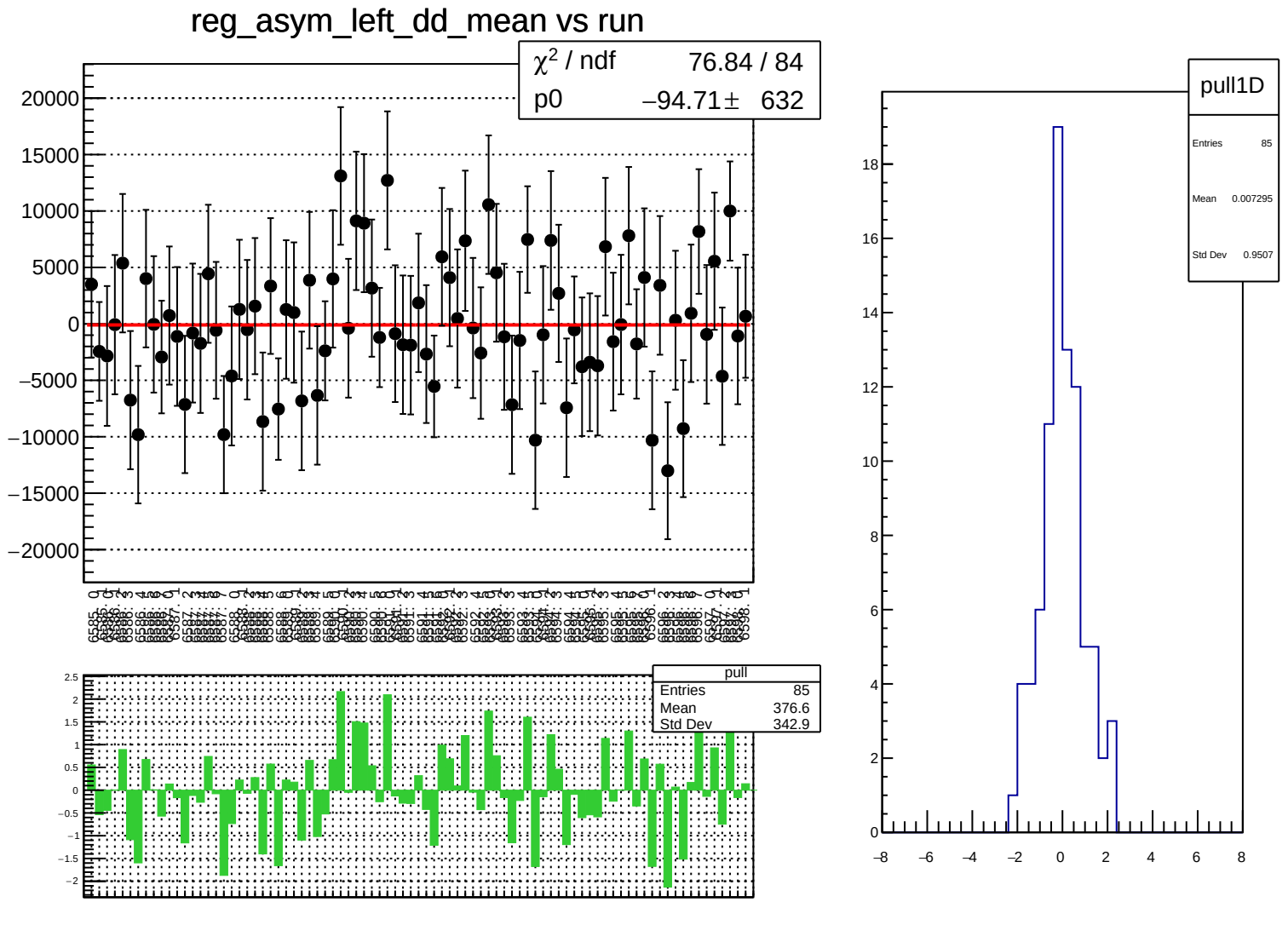

asym_left_avg_correction_mean vs run
χ² / ndf 86.41 / 84
p0 239 ± 839.8
pull
Entries 85
Mean 8.835
Std Dev 203.6
pull1D
Entries 85
Mean 0.003407
Std Dev 1.008

asym_left_avg_correction_rms vs run

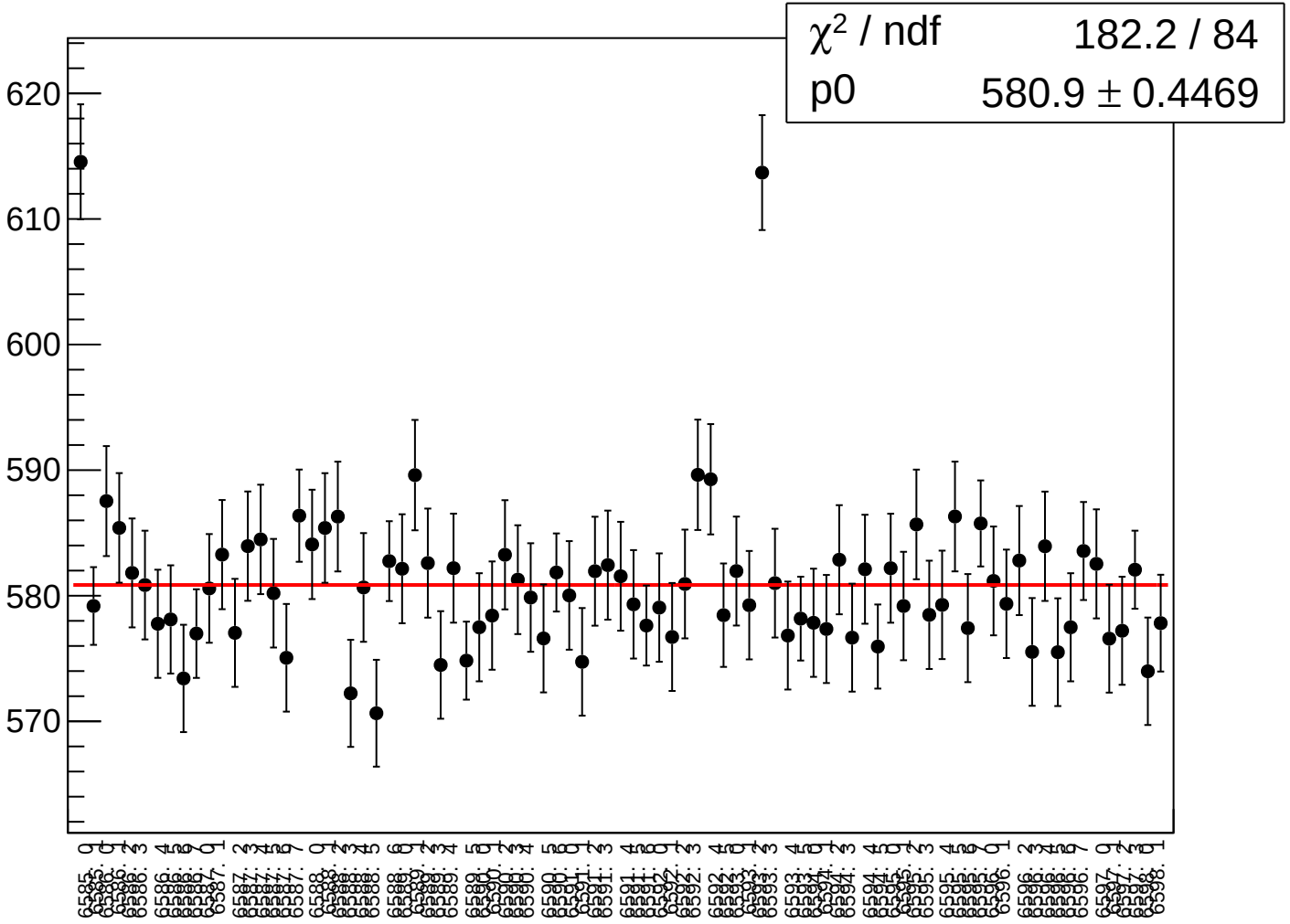


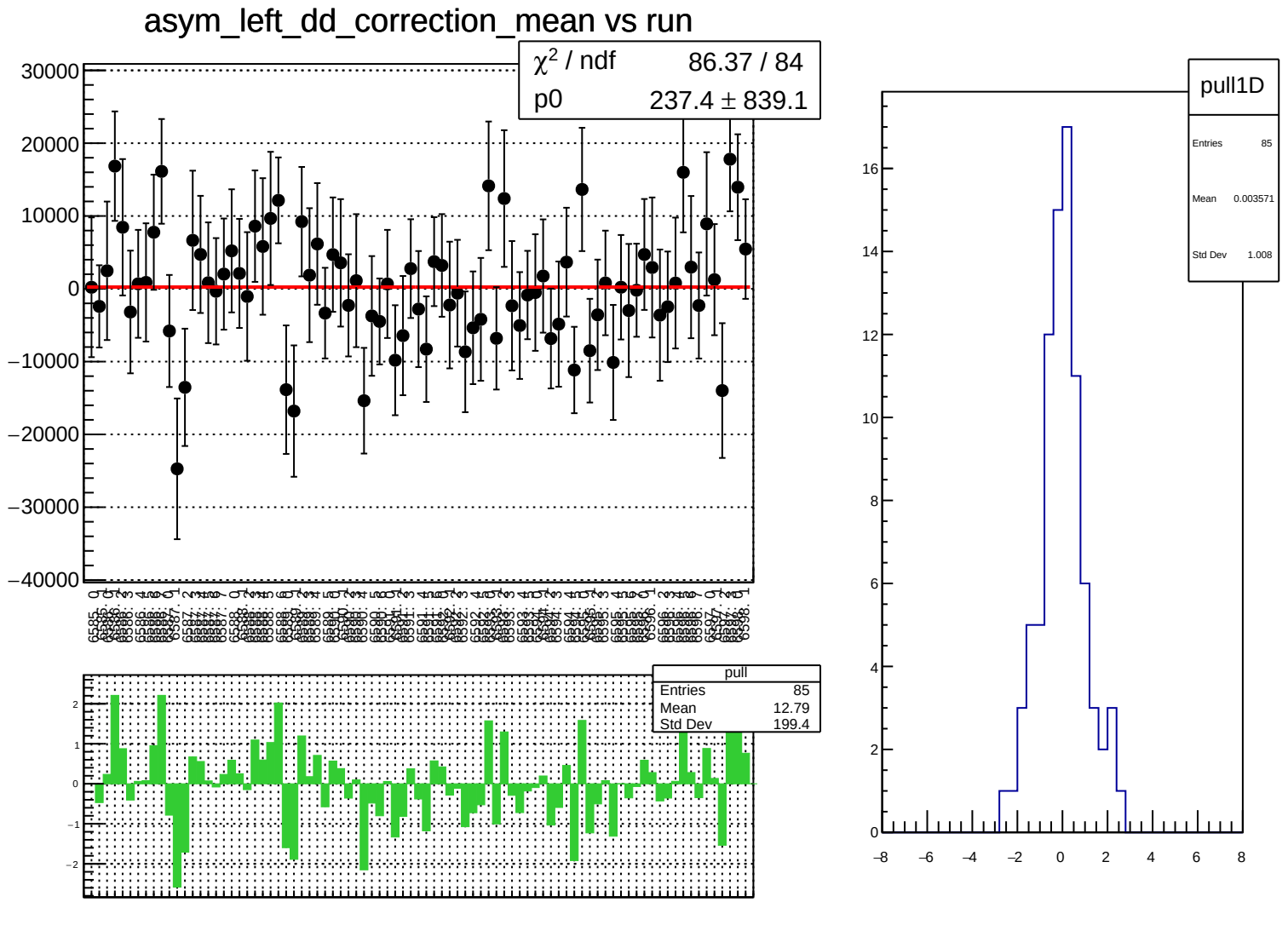

asym_left_avg_mean vs run
χ² / ndf 85.1 / 84
p0 −571.6 ± 1056
pull
Entries 85
Mean 176.1
Std Dev 184.2
pull1D
Entries 85
Mean 0.008253
Std Dev 1.001


asym_left_avg_rms vs run
χ^2 / ndf 6591 / 84
p0 968.4 ± 0.7465
1100
1050
1000
950
900
850

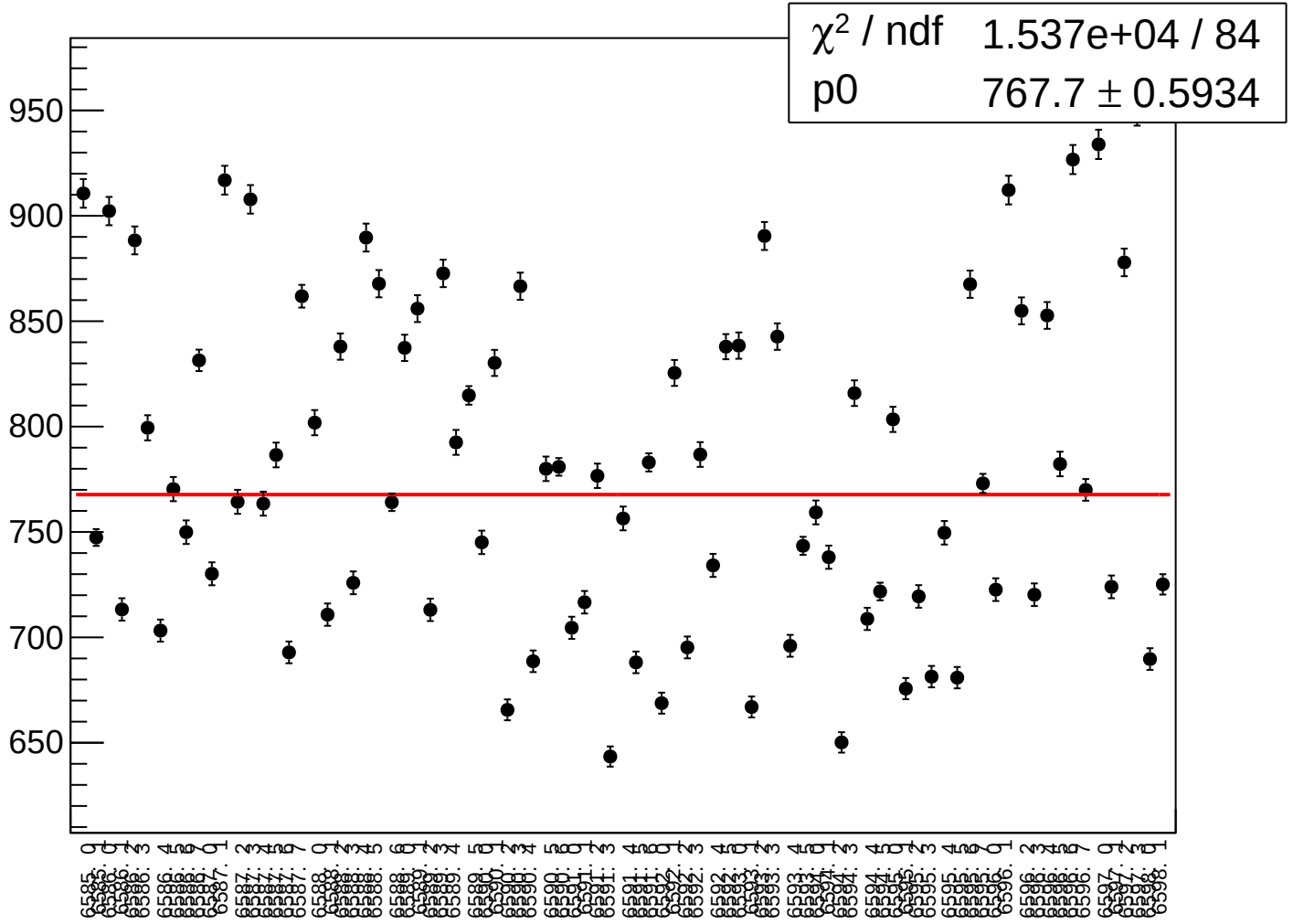

reg_asym_left_dd_mean vs run
χ² / ndf 76.84 / 84
p0 −94.71 ± 632
pull
Entries 85
Mean 376.6
Std Dev 342.9
pull1D
Entries 85
Mean 0.007295
Std Dev 0.9507

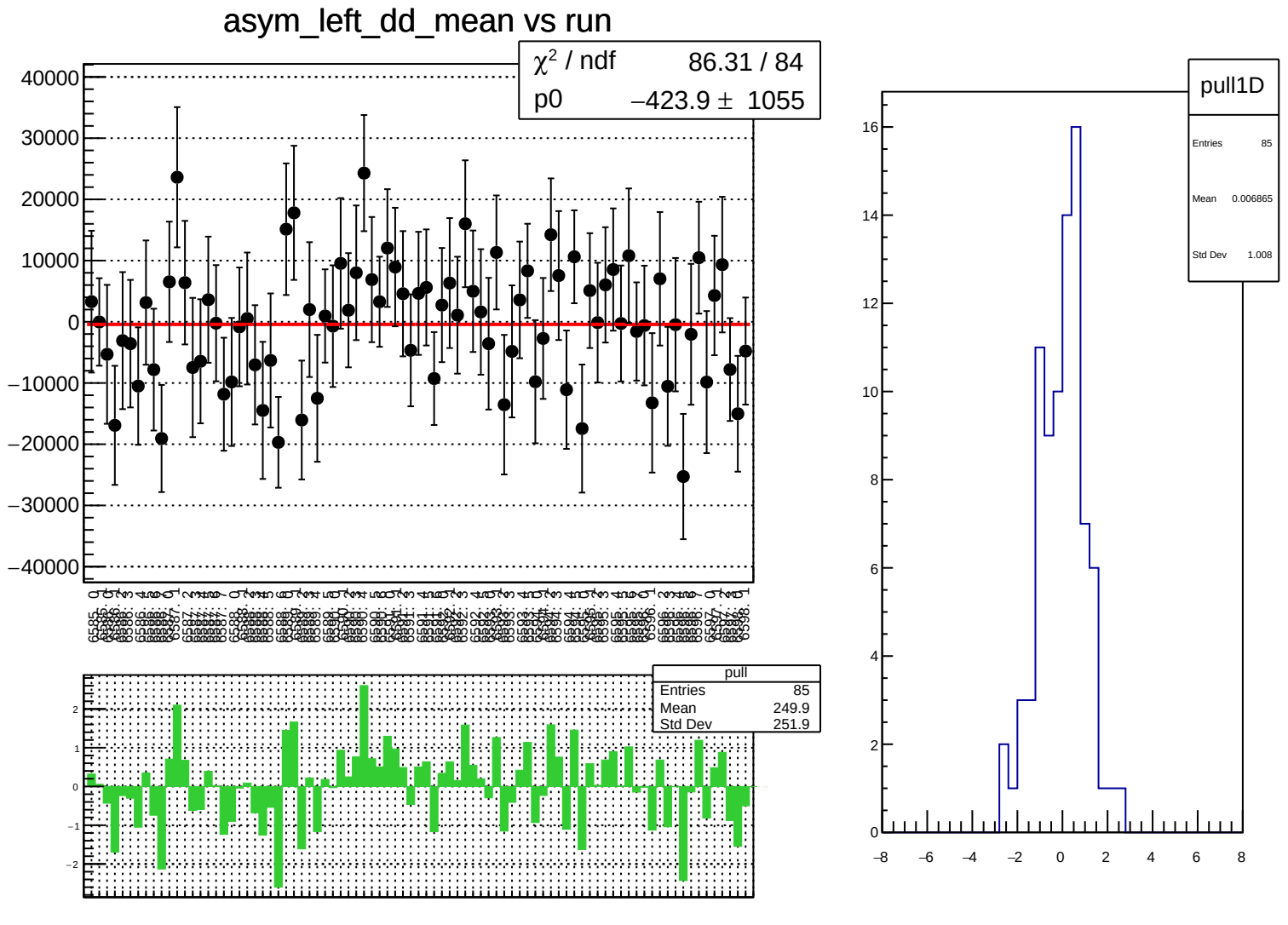
reg_asym_left_dd_rms vs run



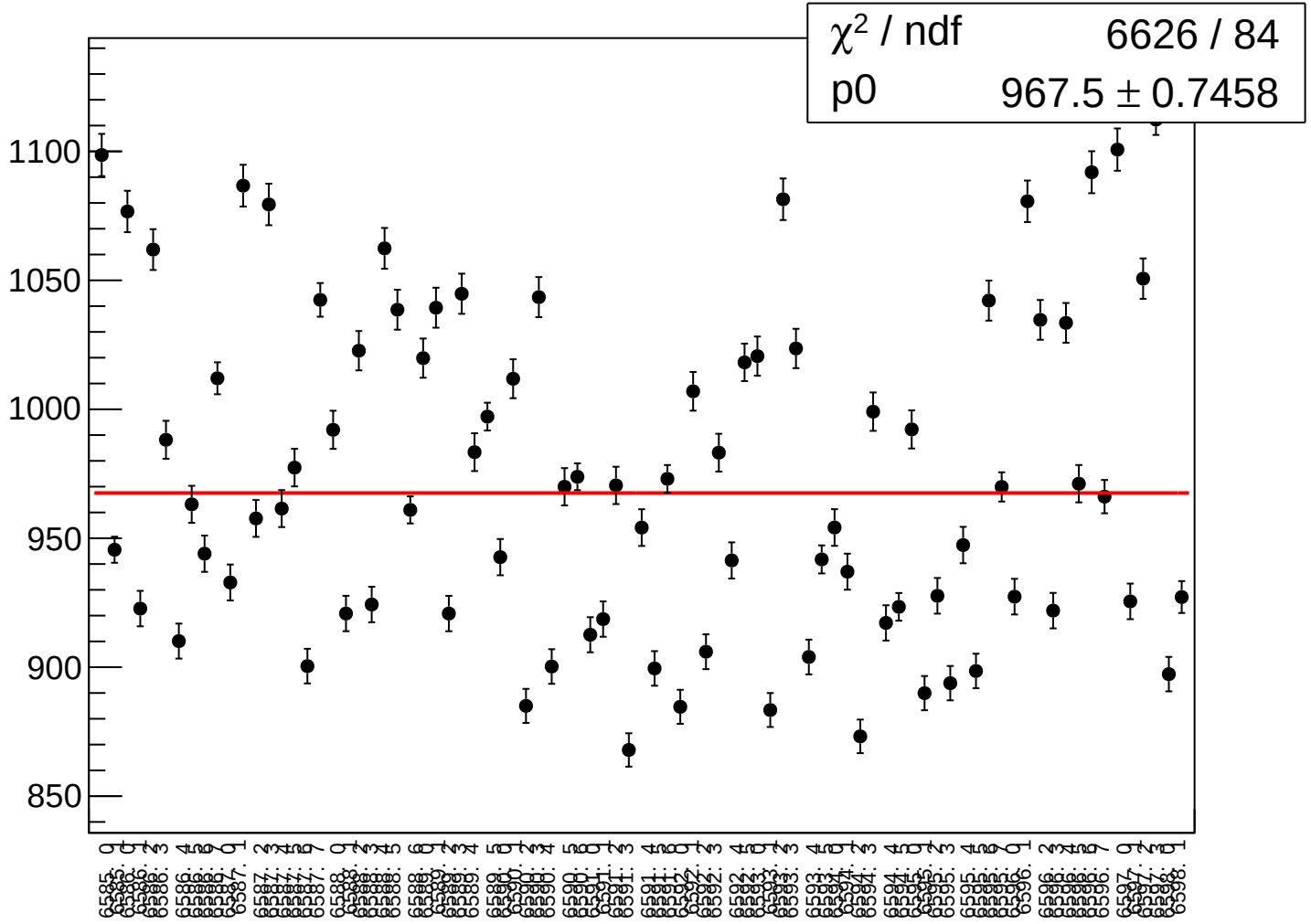

asym_left_dd_correction_mean vs run
χ² / ndf 86.37 / 84
p0 237.4 ± 839.1
pull
Entries 85
Mean 12.79
Std Dev 199.4
pull1D
Entries 85
Mean 0.003571
Std Dev 1.008

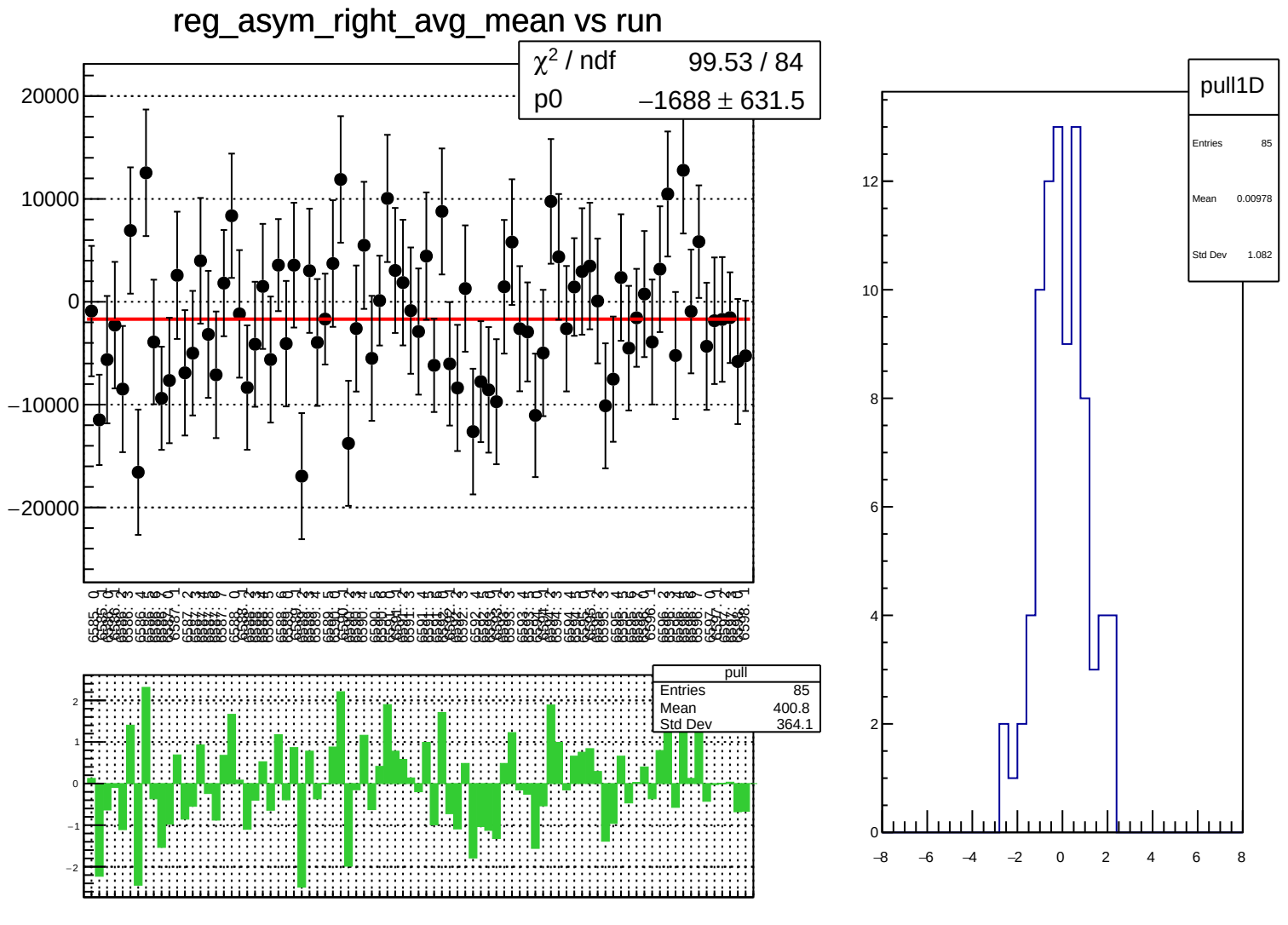
asym_left_dd_correction_rms vs run



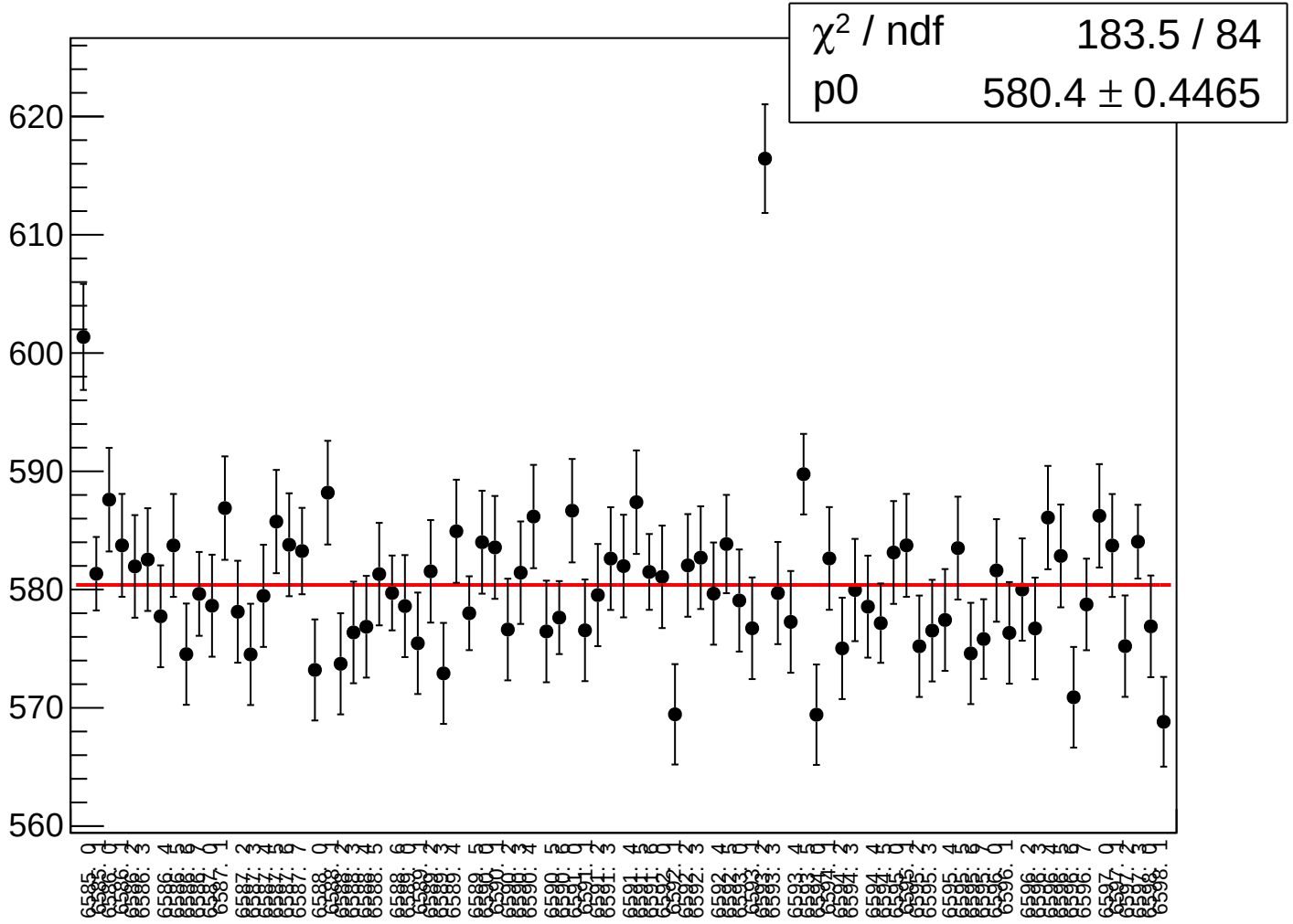

asym_left_dd_mean vs run
χ² / ndf 86.31 / 84
p0 −423.9 ± 1055
pull
Entries 85
Mean 249.9
Std Dev 251.9
pull1D
Entries 85
Mean 0.006865
Std Dev 1.008

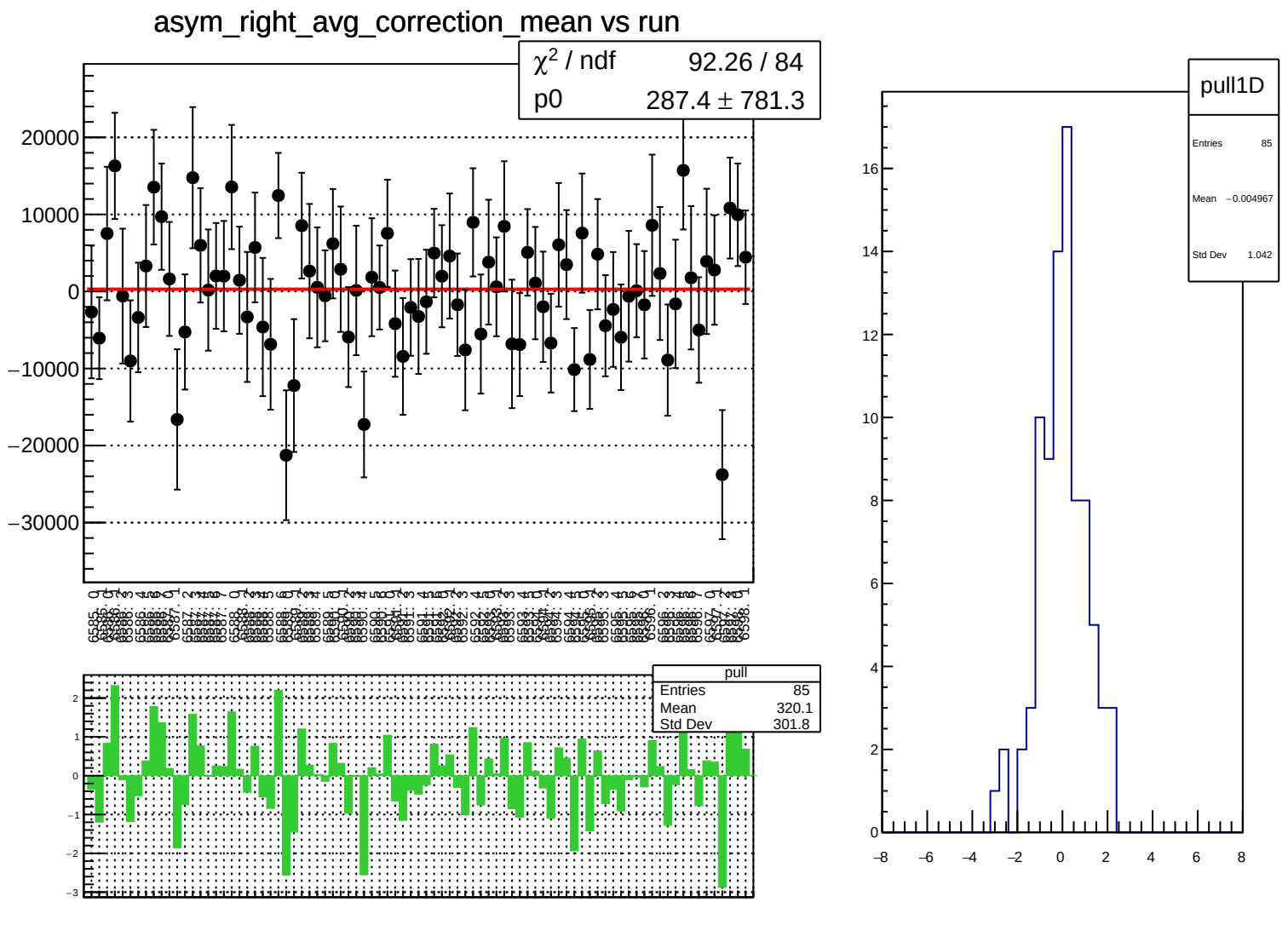
asym_left_dd_rms vs run



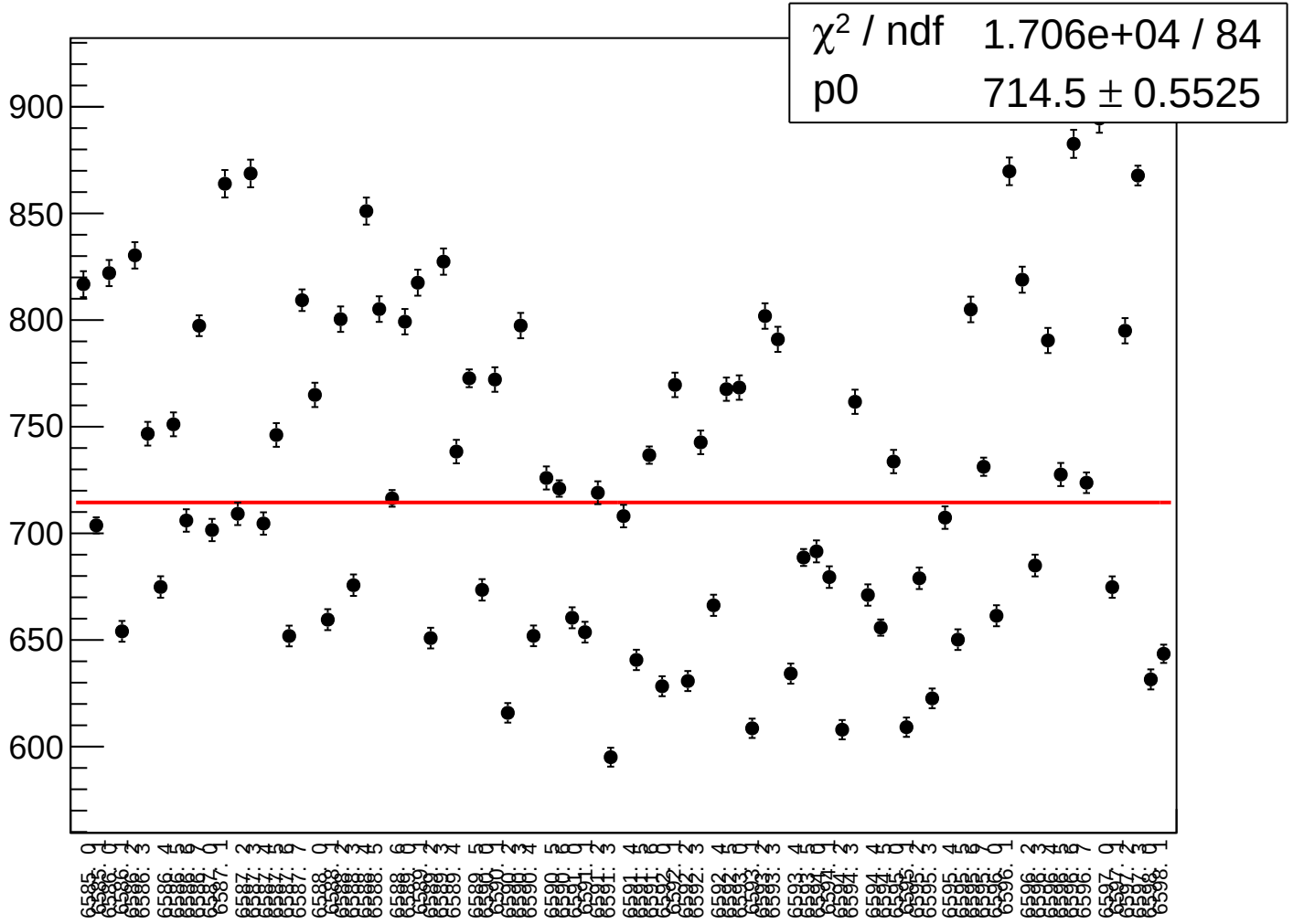

reg_asym_right_avg_mean vs run
χ^2 / ndf 99.53 / 84
p0 −1688 ± 631.5
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 400.8
Std Dev 364.1
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.00978
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

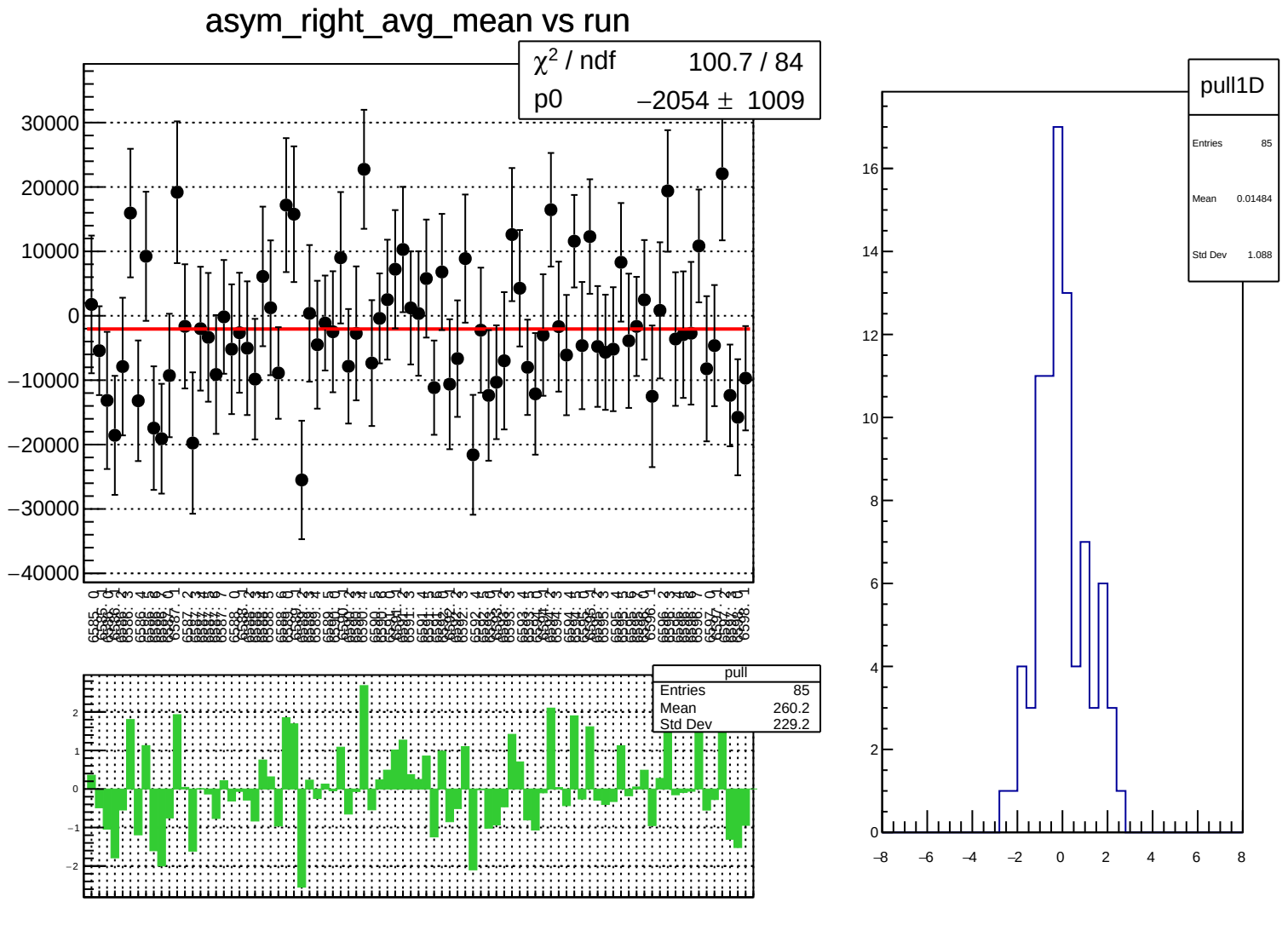
reg_asym_right_avg_rms vs run



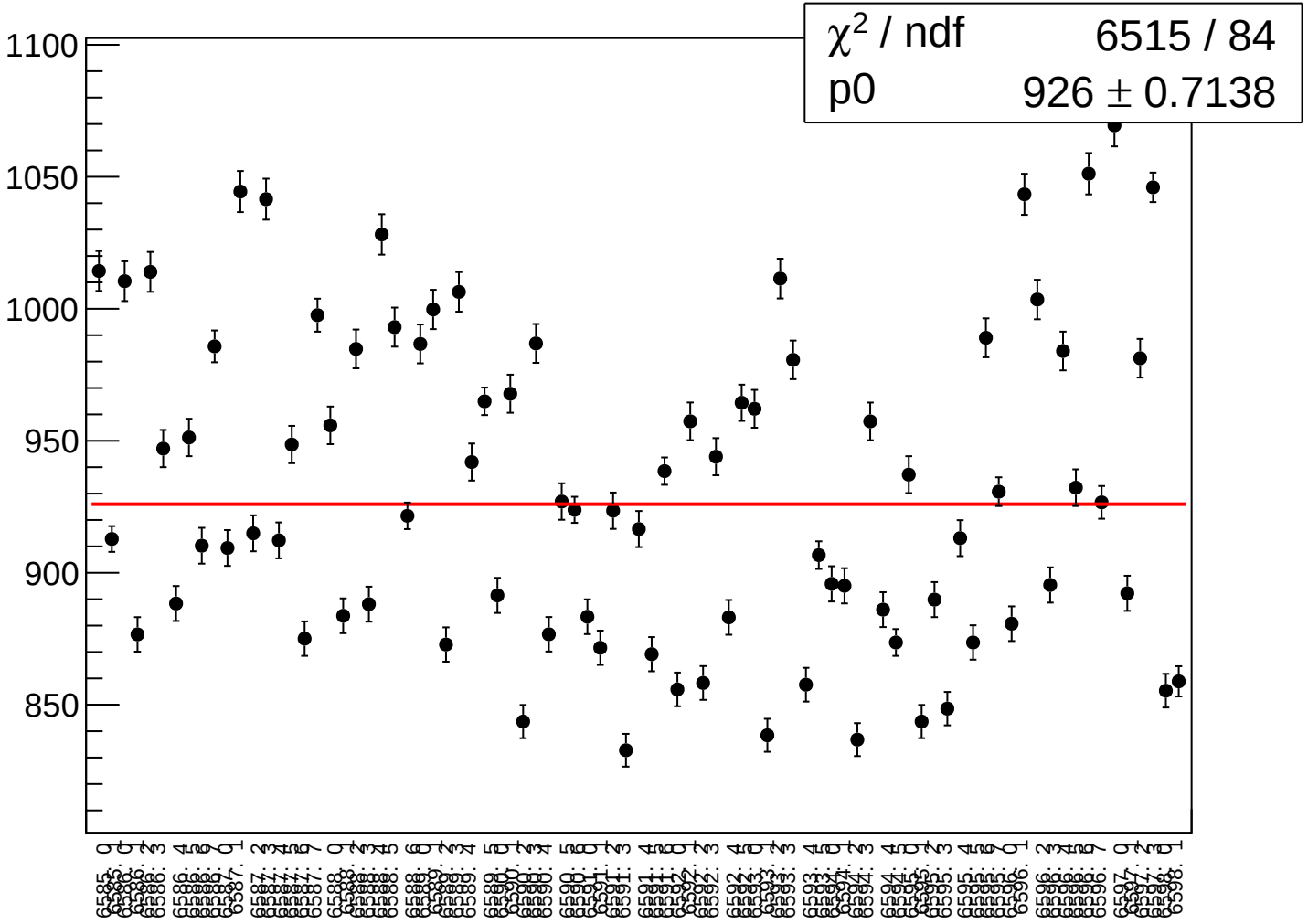

asym_right_avg_correction_mean vs run
χ^2 / ndf 92.26 / 84
p0 287.4 ± 781.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 320.1
Std Dev 301.8
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.004967
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

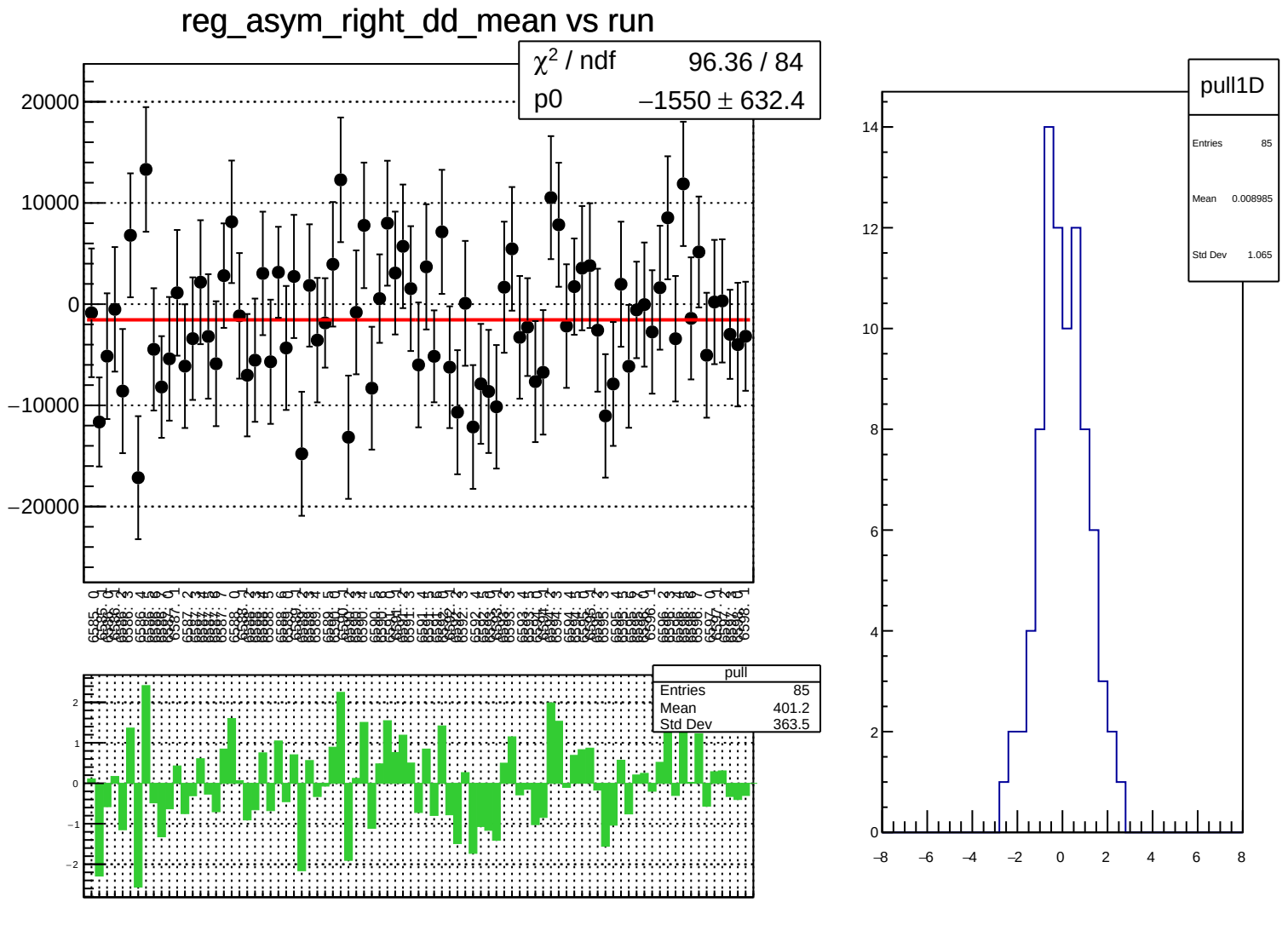
asym_right_avg_correction_rms vs run

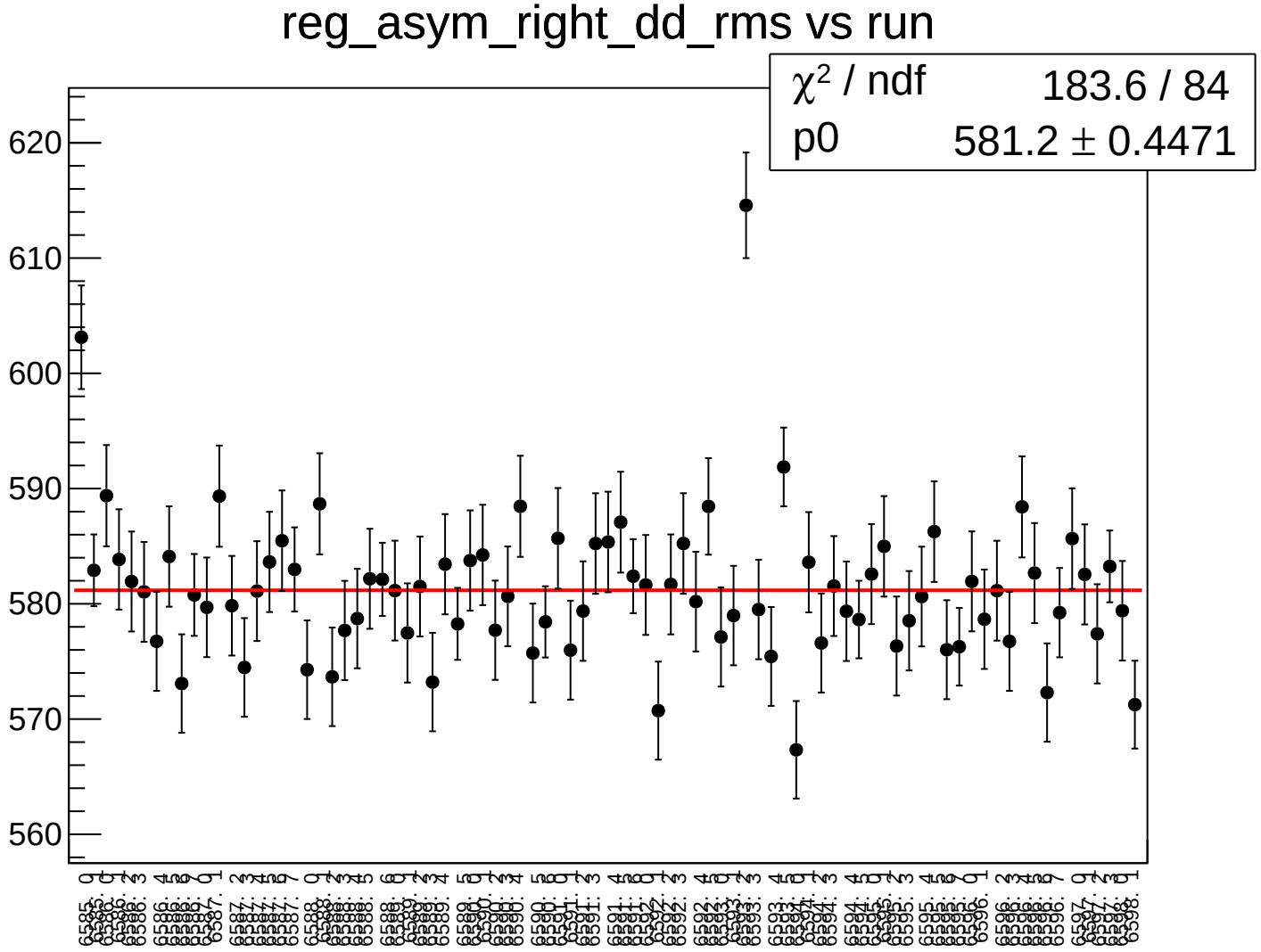


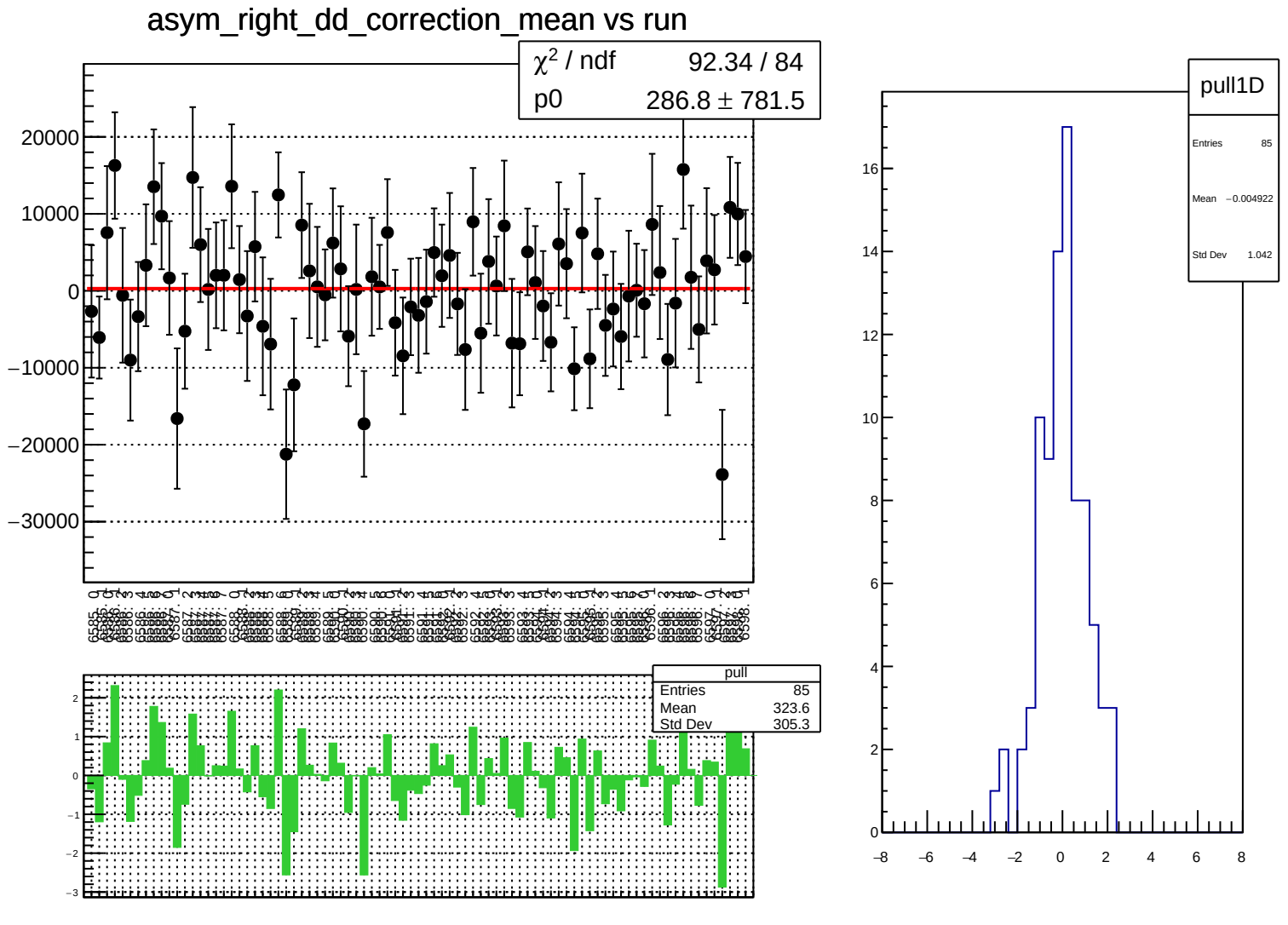

asym_right_avg_mean vs run
χ^2 / ndf 100.7 / 84
p0 −2054 ± 1009
pull
Entries 85
Mean 260.2
Std Dev 229.2
pull1D
Entries 85
Mean 0.01484
Std Dev 1.088

asym_right_avg_rms vs run

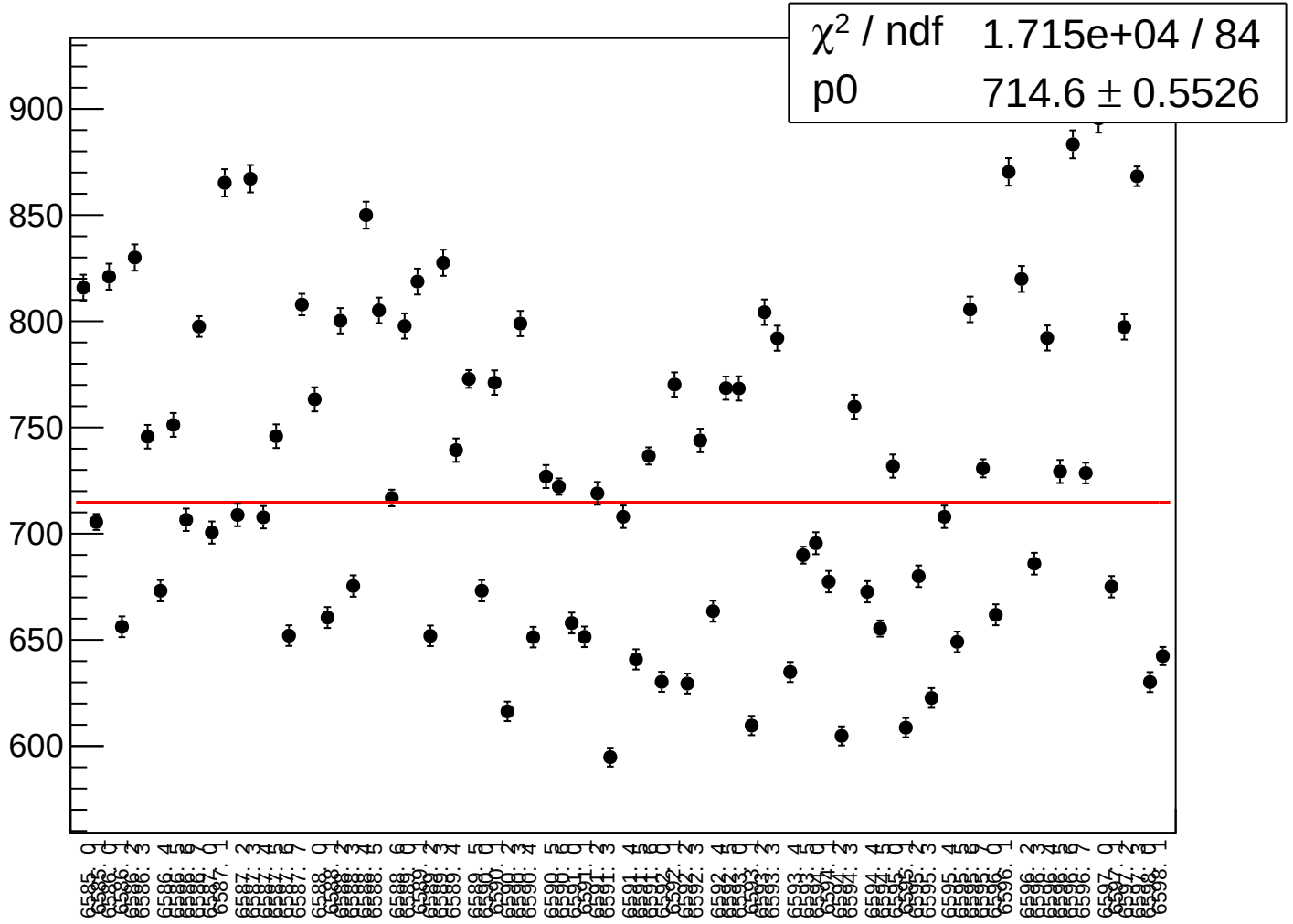


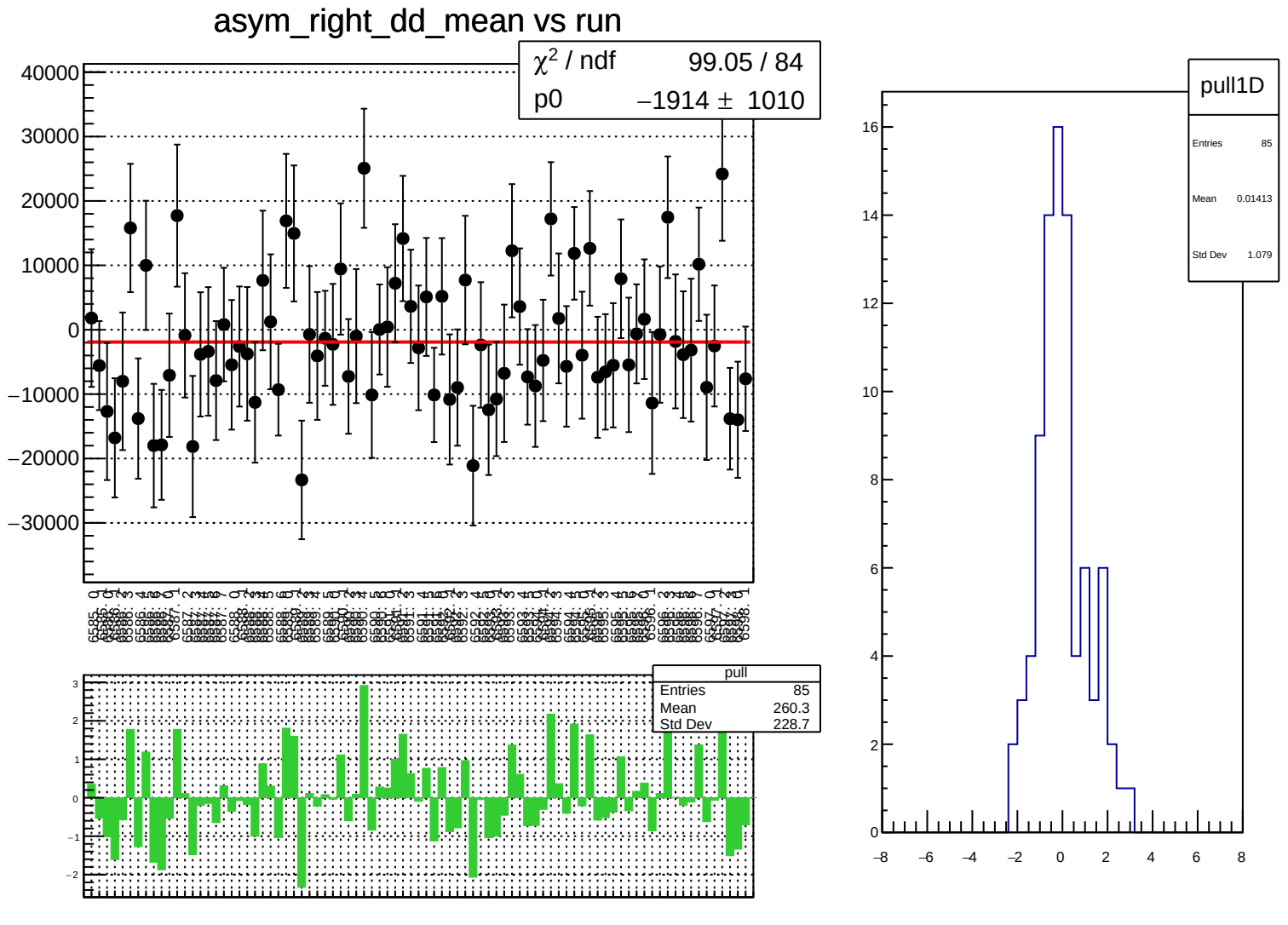

reg_asym_right_dd_mean vs run
χ^2 / ndf 96.36 / 84
p0 −1550 ± 632.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 401.2
Std Dev 363.5
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.008985
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_dd_rms vs run
χ² / ndf 183.6 / 84
p0 581.2 ± 0.4471
620
610
600
590
580
570
560

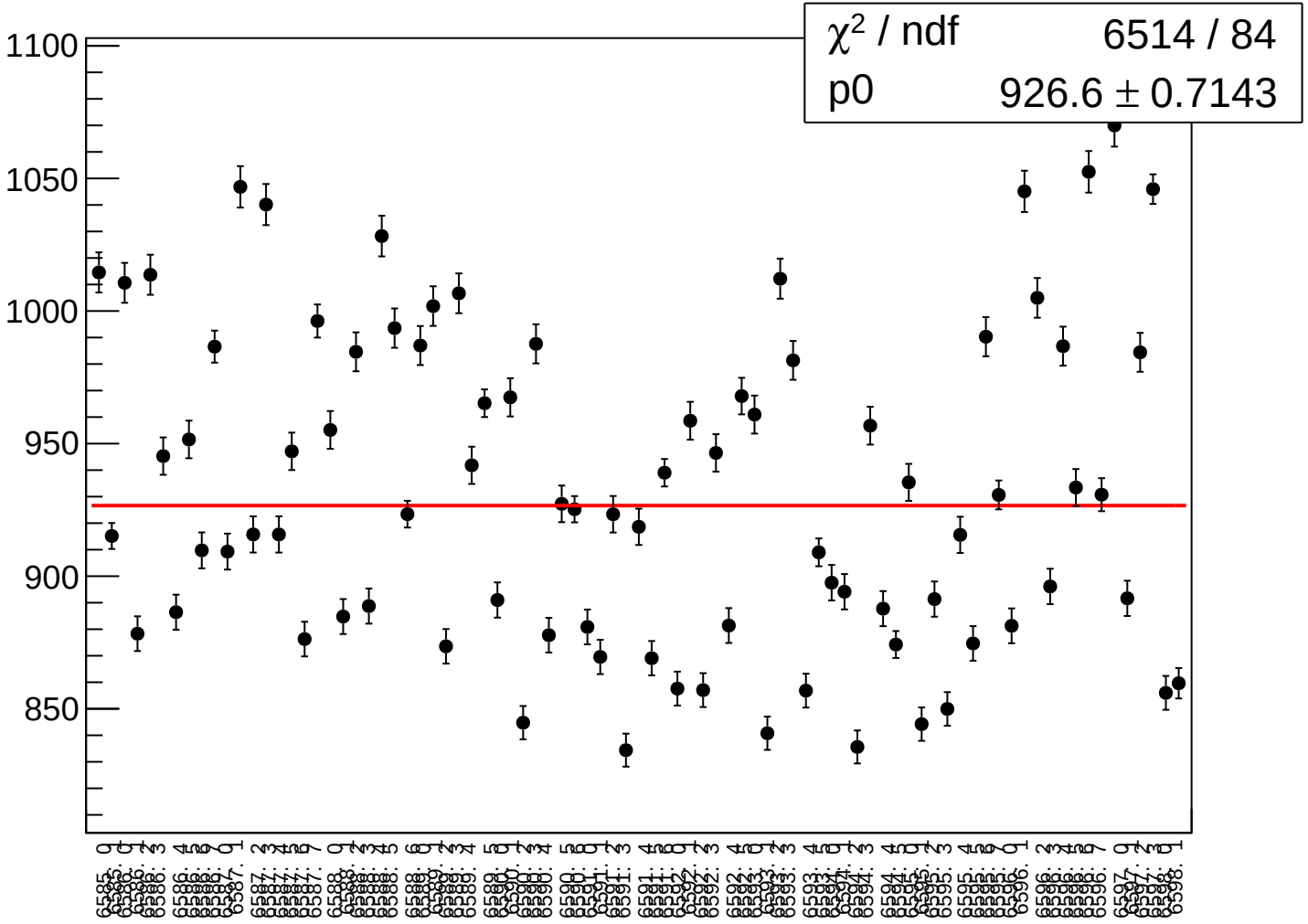

asym_right_dd_correction_mean vs run
χ² / ndf 92.34 / 84
p0 286.8 ± 781.5
pull
Entries 85
Mean 323.6
Std Dev 305.3
pull1D
Entries 85
Mean −0.004922
Std Dev 1.042

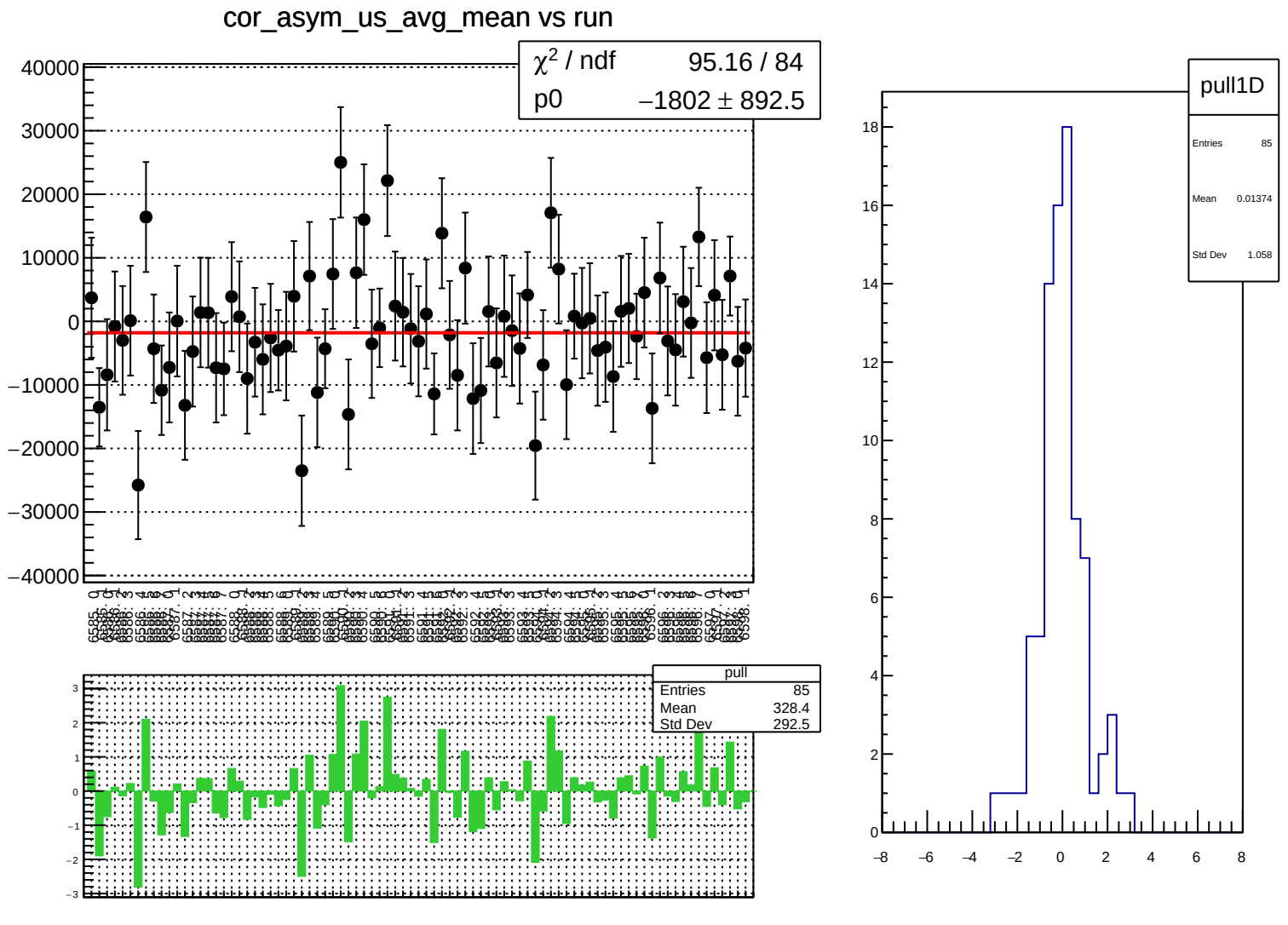
asym_right_dd_correction_rms vs run

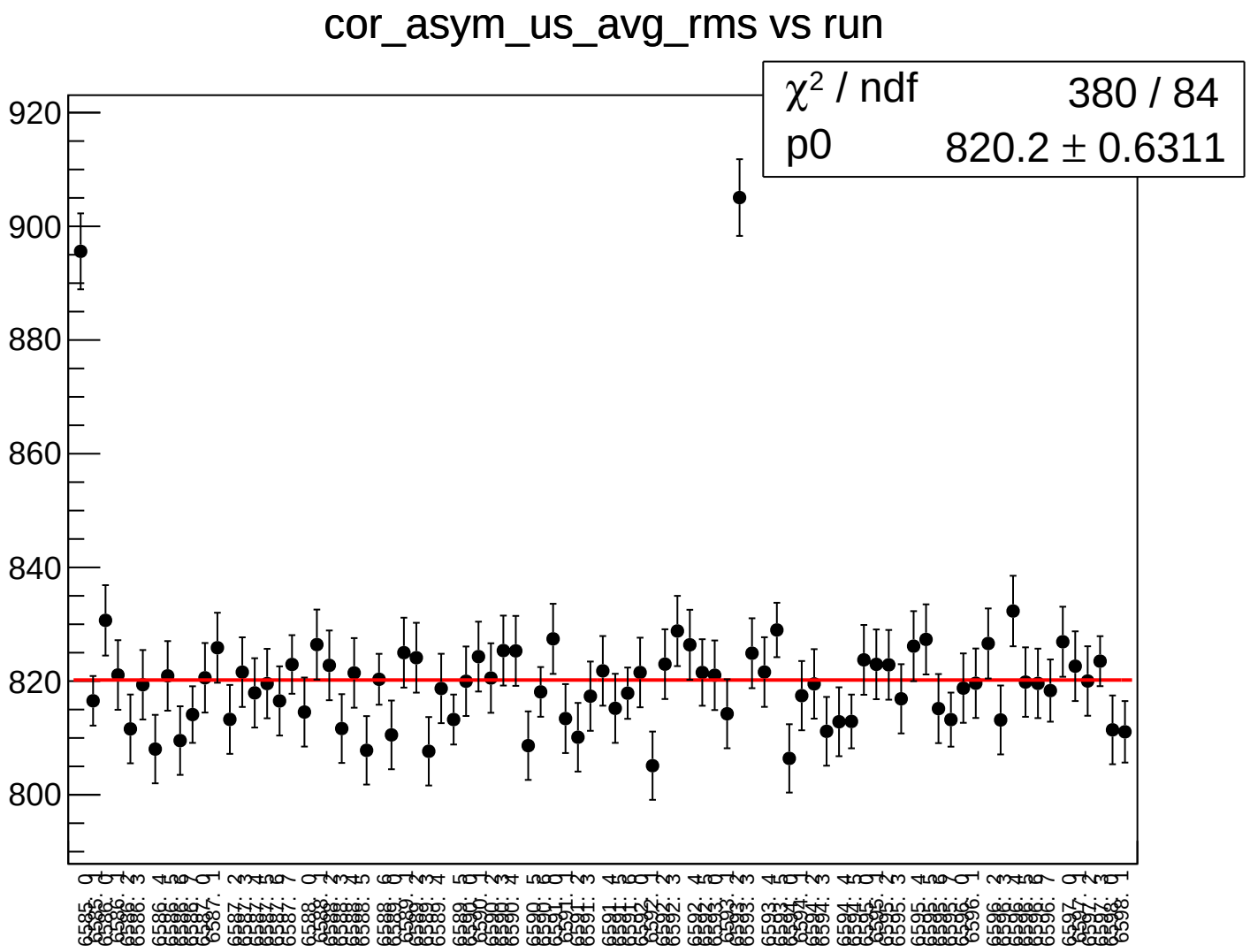


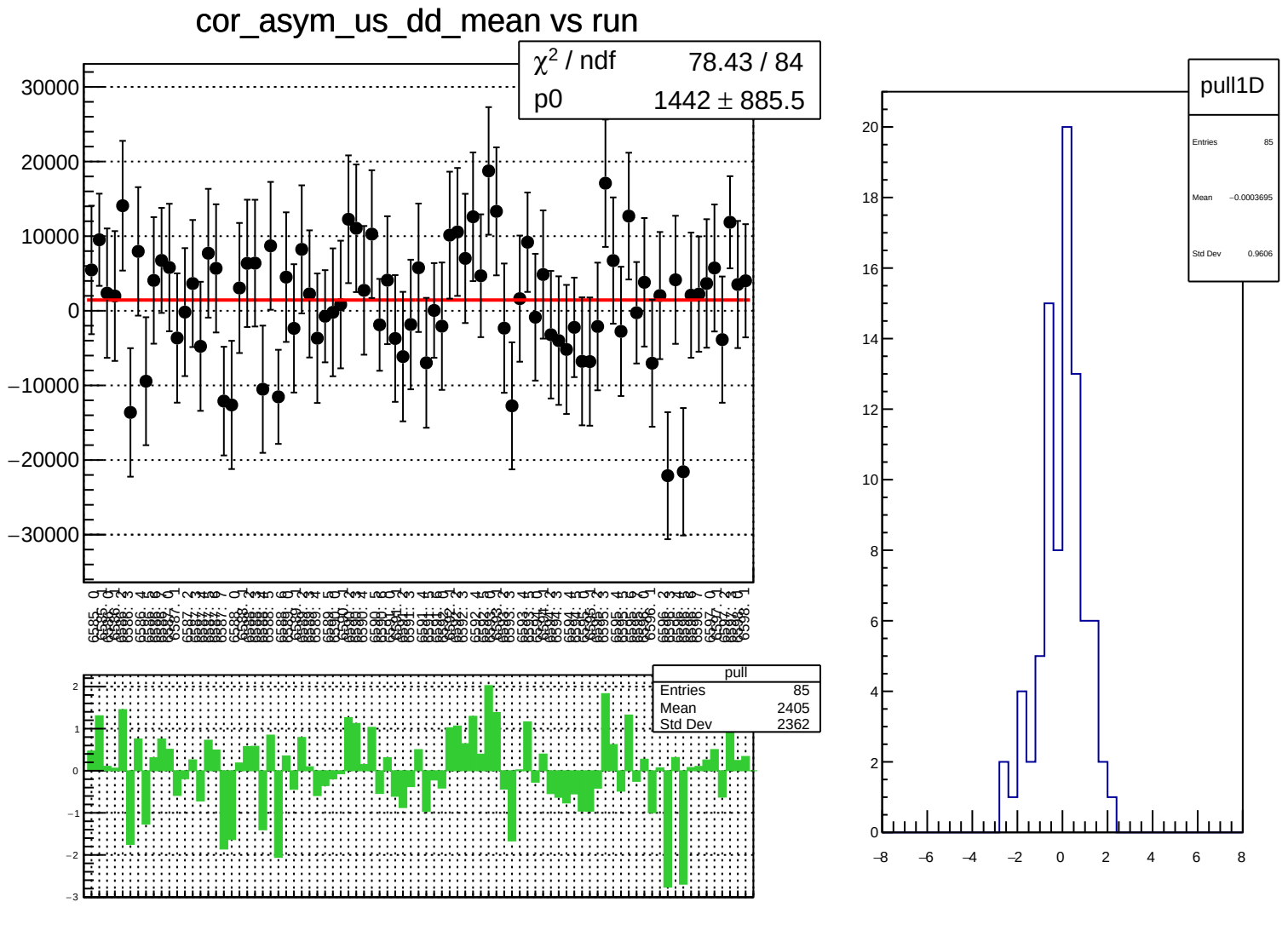

asym_right_dd_mean vs run
χ^2 / ndf 99.05 / 84
p0 −1914 ± 1010
pull
Entries 85
Mean 260.3
Std Dev 228.7
pull1D
Entries 85
Mean 0.01413
Std Dev 1.079

asym_right_dd_rms vs run

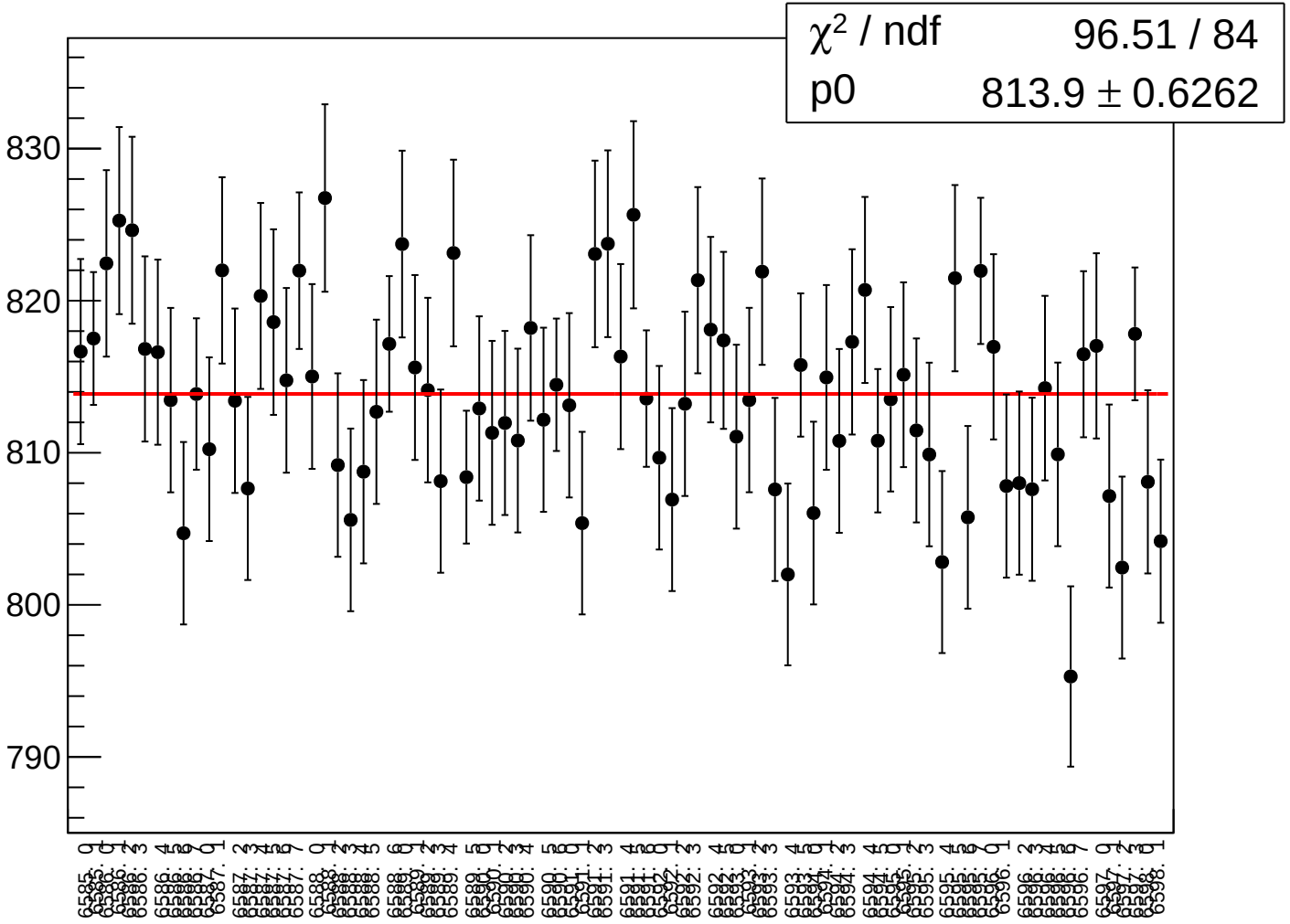


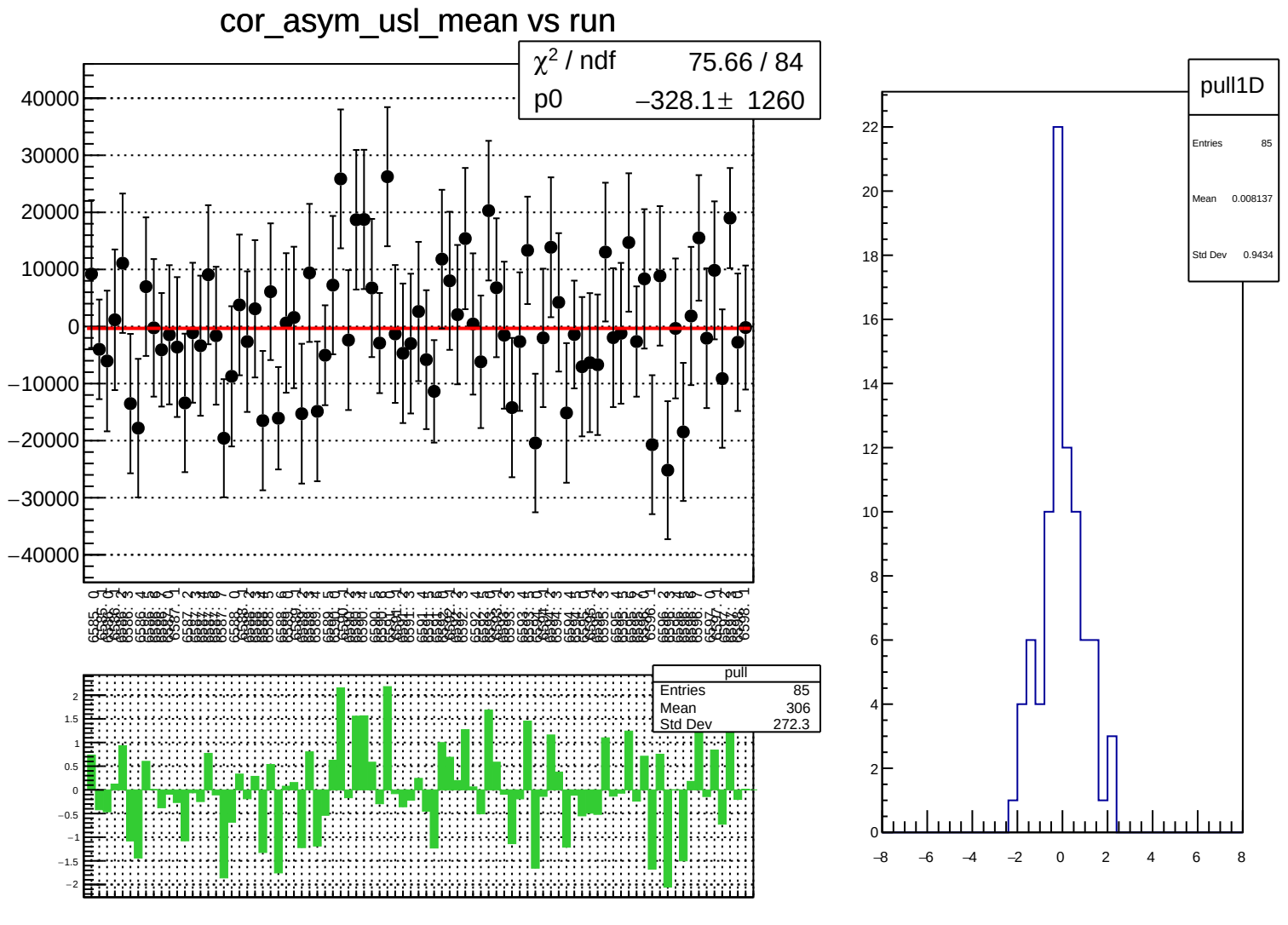

cor_asym_us_avg_mean vs run
χ^2 / ndf 95.16 / 84
p0 −1802 ± 892.5
pull
Entries 85
Mean 328.4
Std Dev 292.5
pull1D
Entries 85
Mean 0.01374
Std Dev 1.058

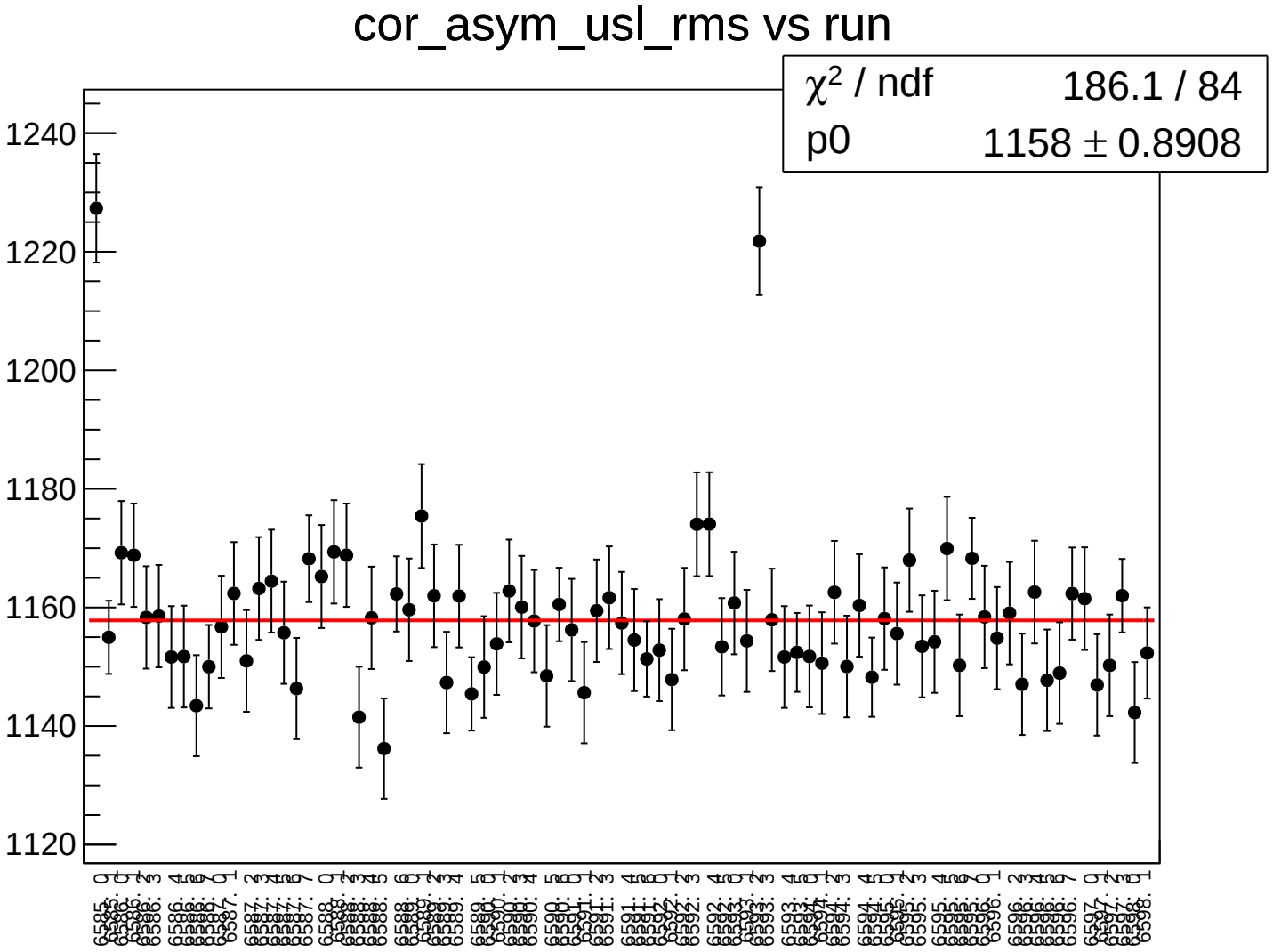

cor_asym_us_avg_rms vs run
χ² / ndf 380 / 84
p0 820.2 ± 0.6311
920
900
880
860
840
820
800

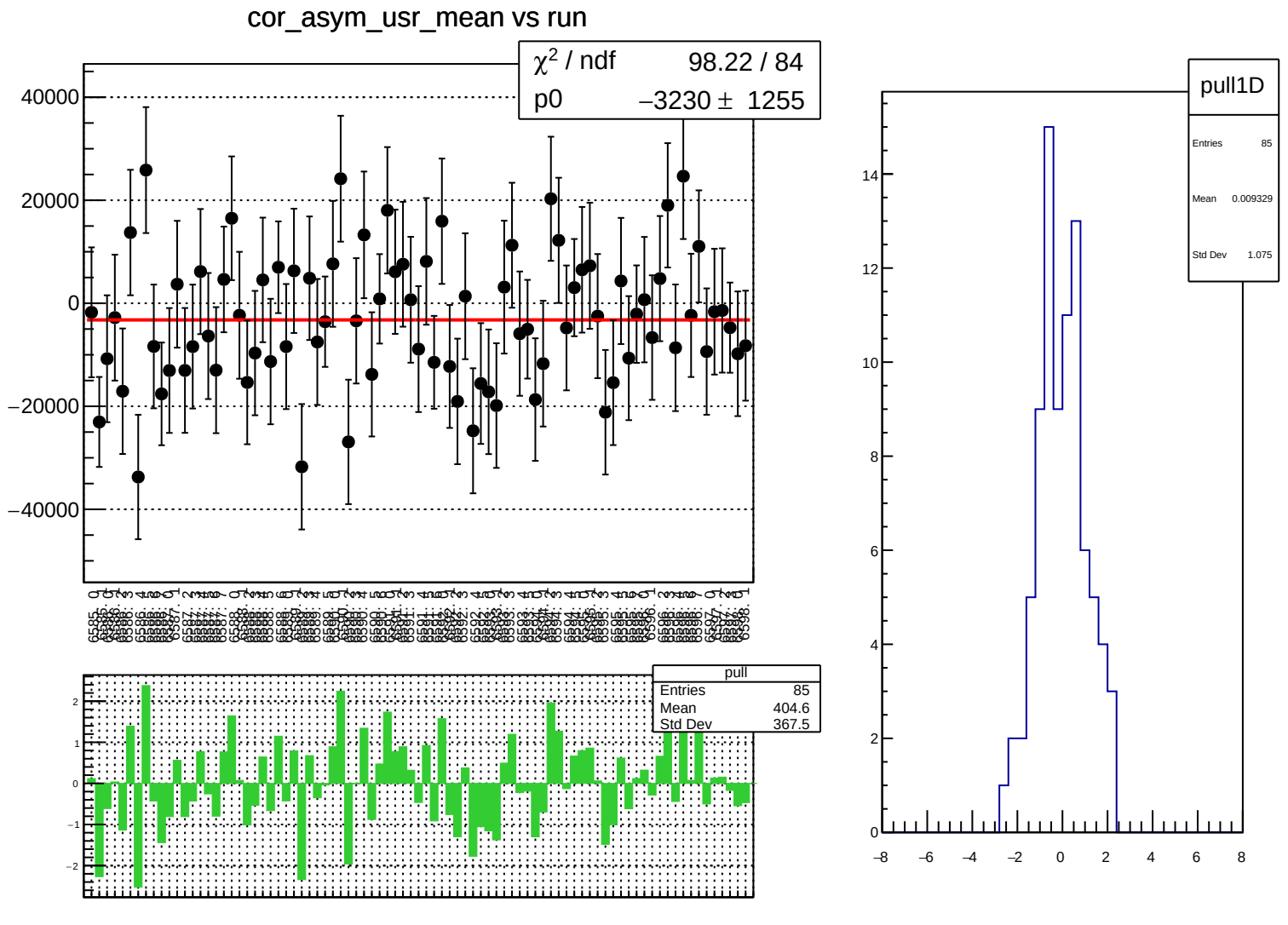

cor_asym_us_dd_mean vs run
χ² / ndf 78.43 / 84
p0 1442 ± 885.5
pull
Entries 85
Mean 2405
Std Dev 2362
pull1D
Entries 85
Mean −0.0003695
Std Dev 0.9606

cor_asym_us_dd_rms vs run

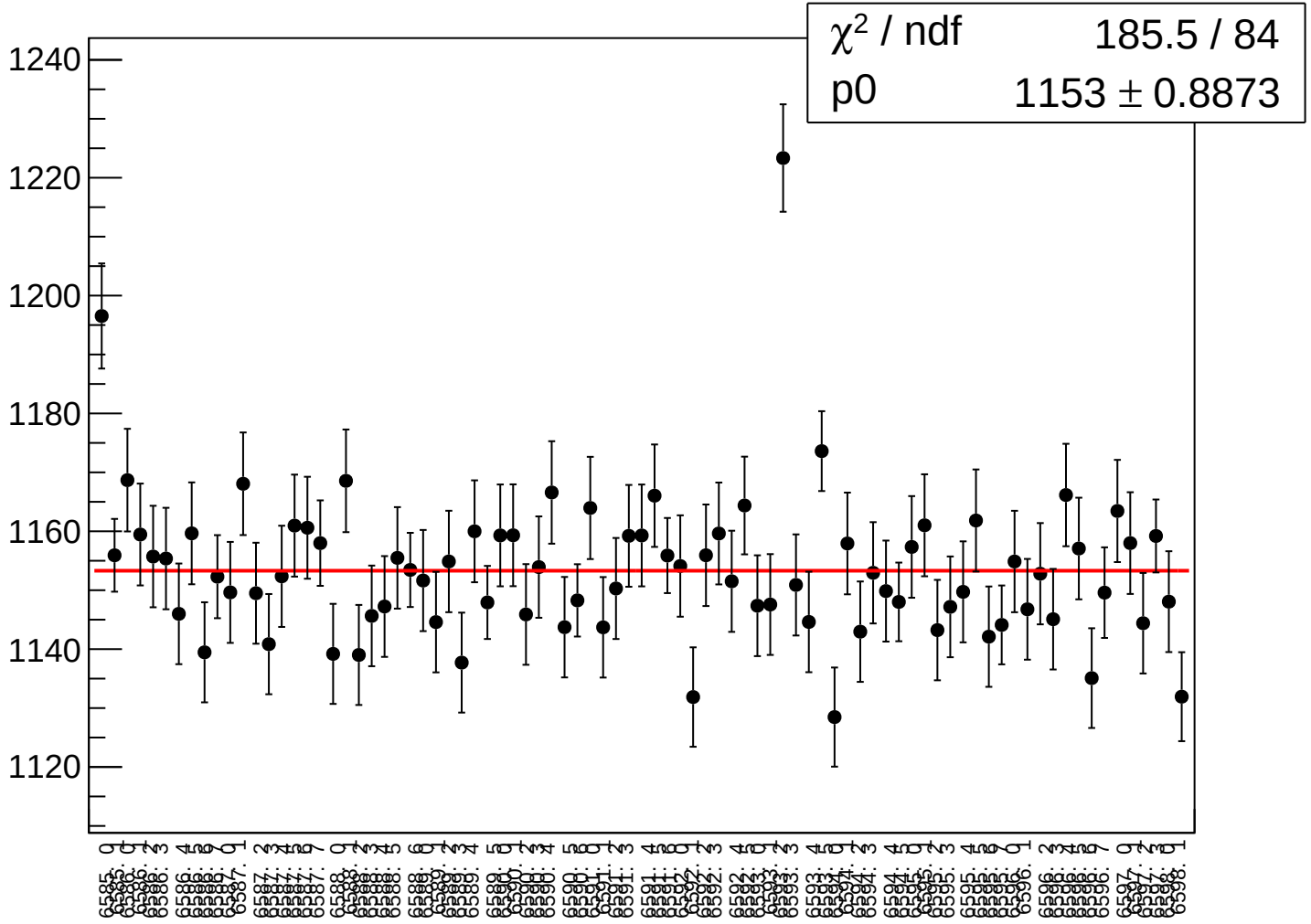


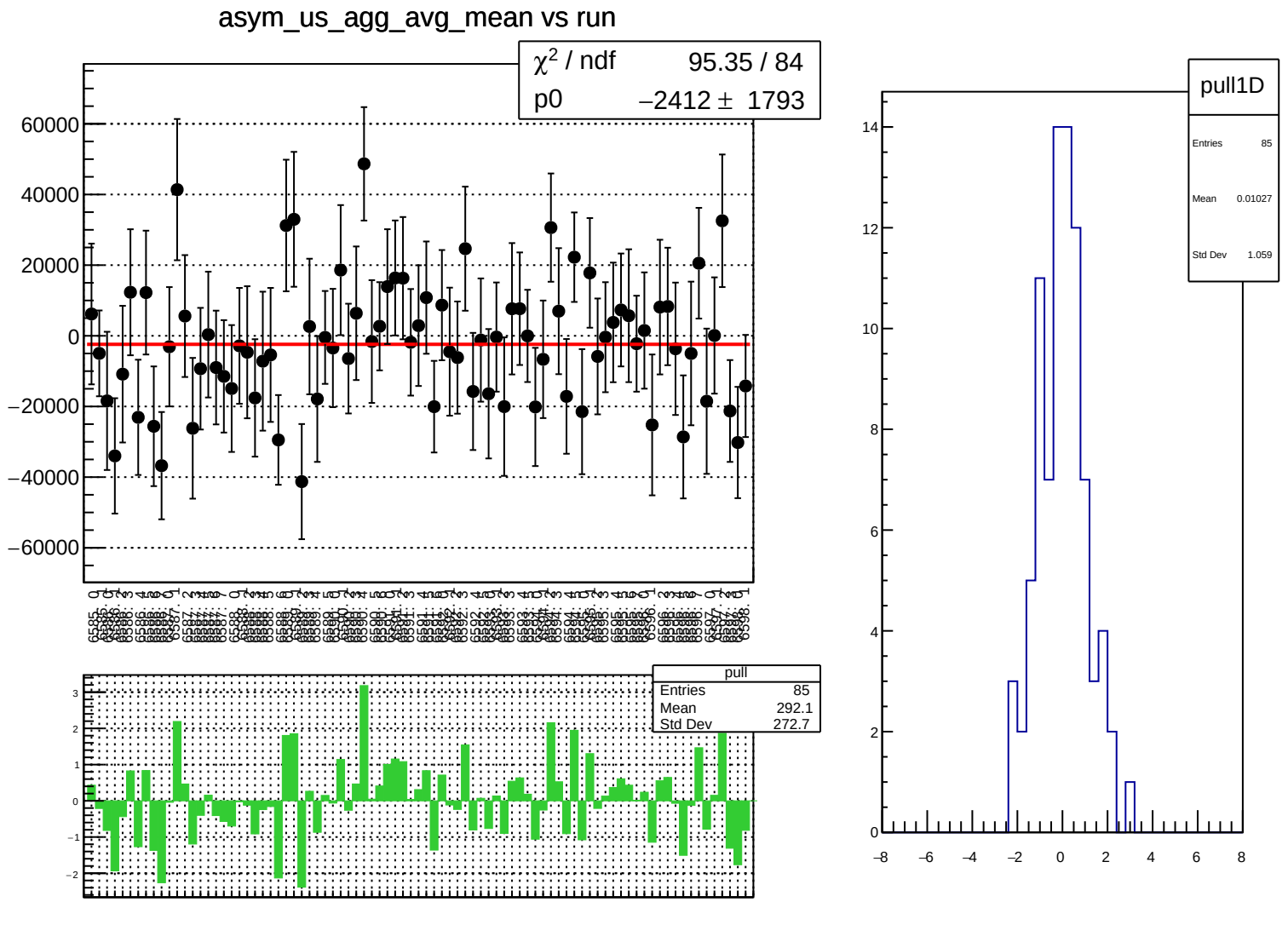

cor_asym_usl_mean vs run
χ² / ndf 75.66 / 84
p0 −328.1± 1260
pull
Entries 85
Mean 306
Std Dev 272.3
pull1D
Entries 85
Mean 0.008137
Std Dev 0.9434

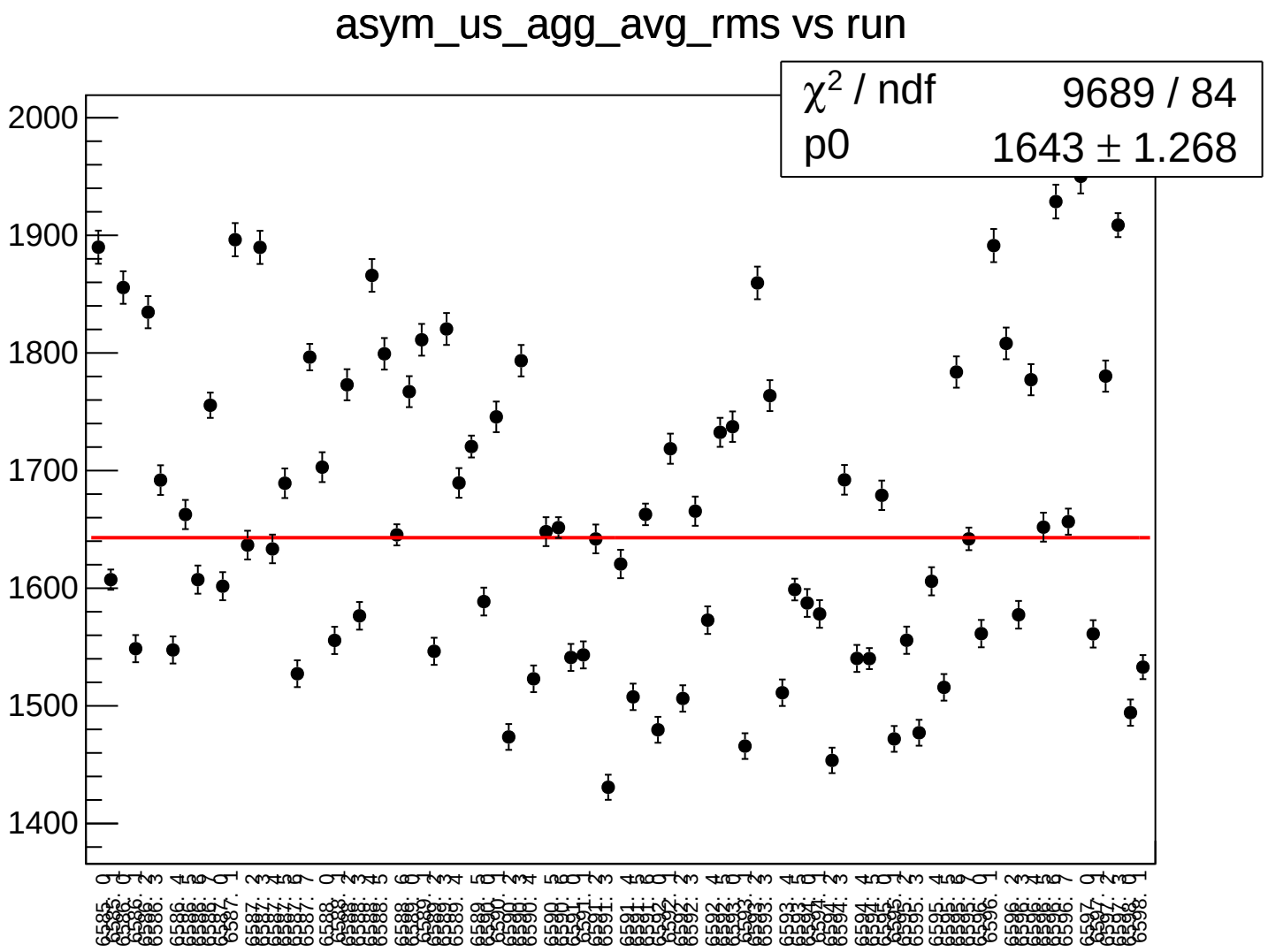

cor_asym_usl_rms vs run
χ² / ndf 186.1 / 84
p0 1158 ± 0.8908
1240
1220
1200
1180
1160
1140
1120

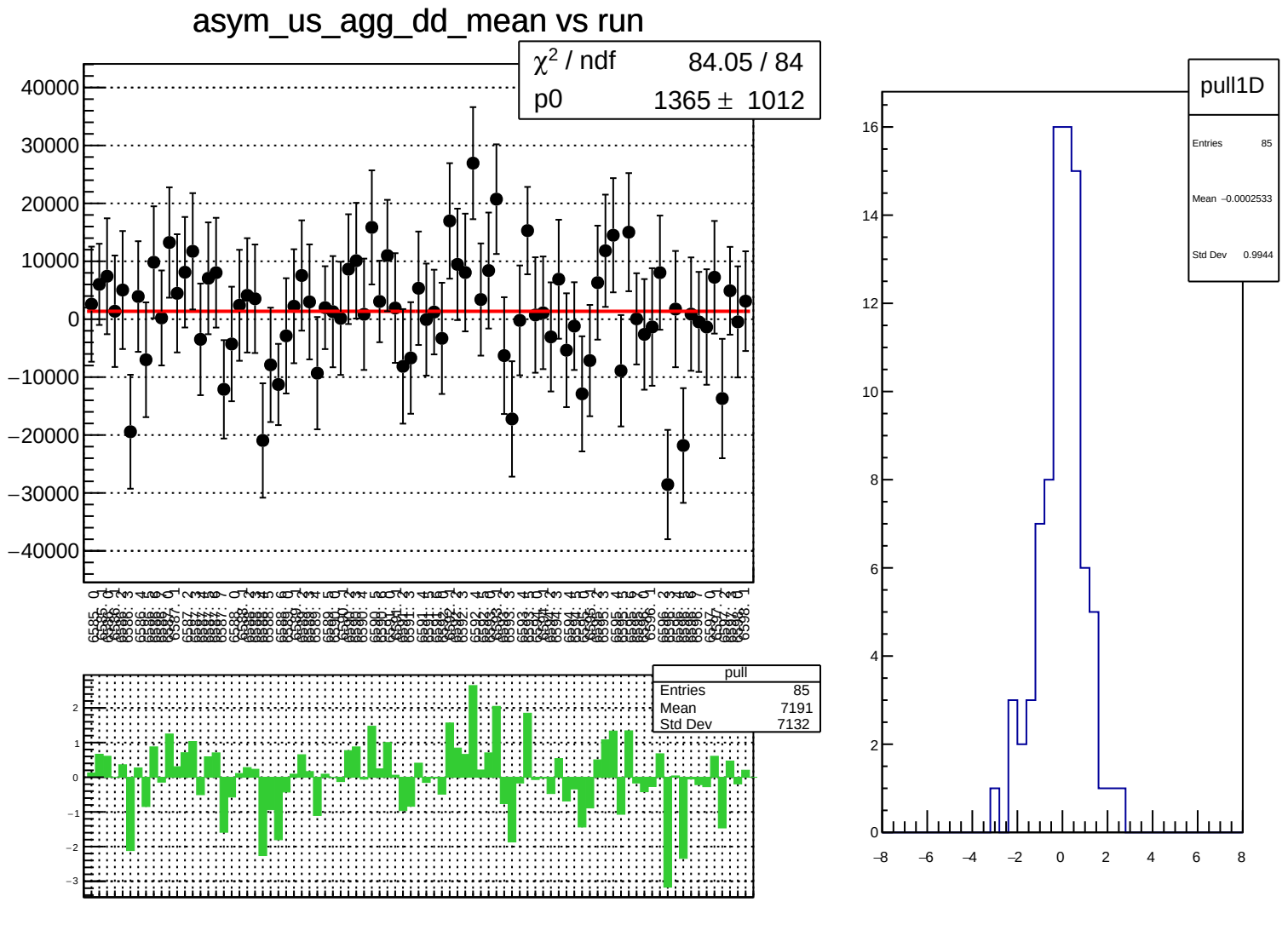

cor_asym_usr_mean vs run
χ² / ndf 98.22 / 84
p0 −3230 ± 1255
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 404.6
Std Dev 367.5
pull1D
Entries 85
Mean 0.009329
Std Dev 1.075

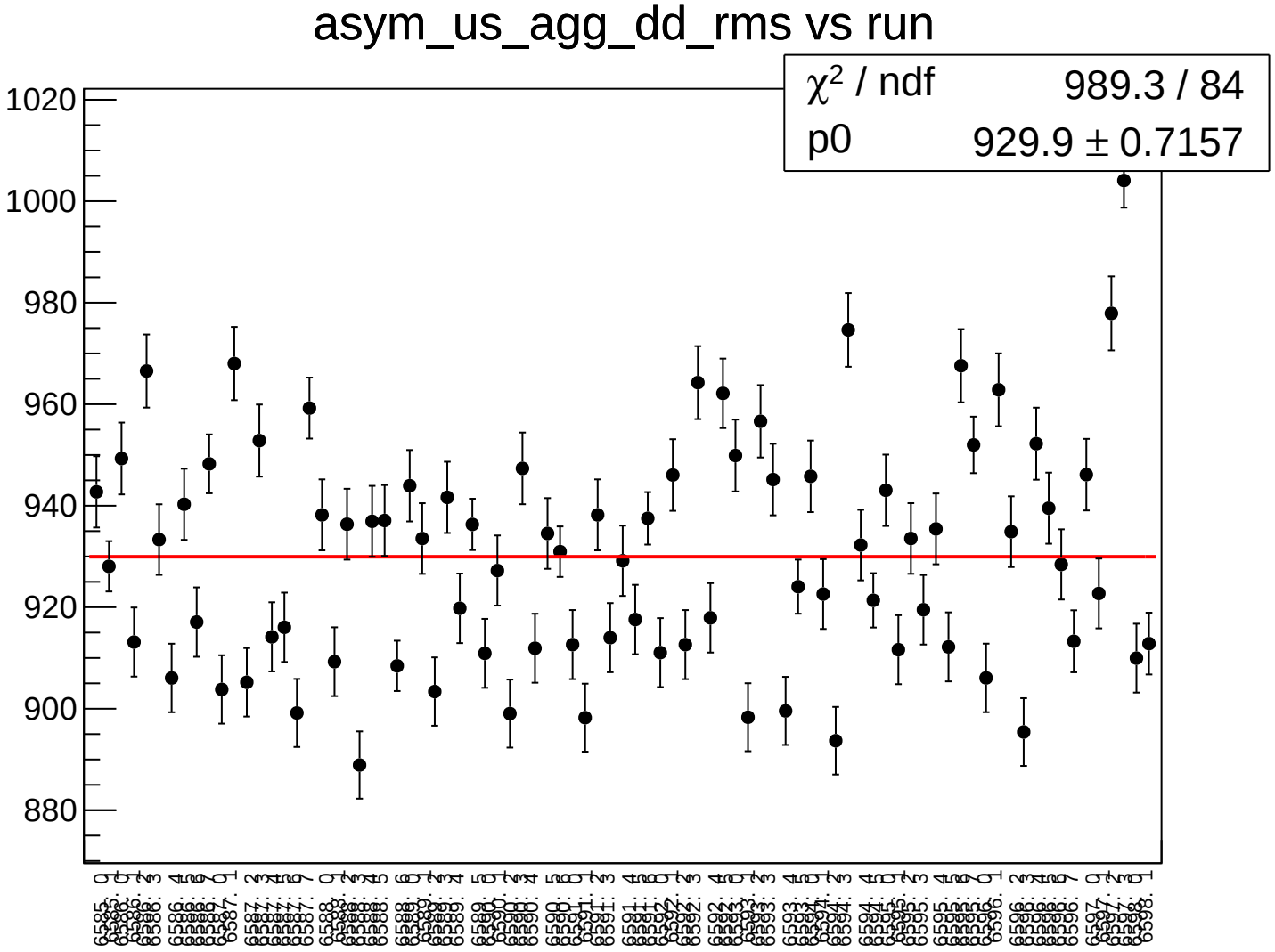
cor_asym_usr_rms vs run

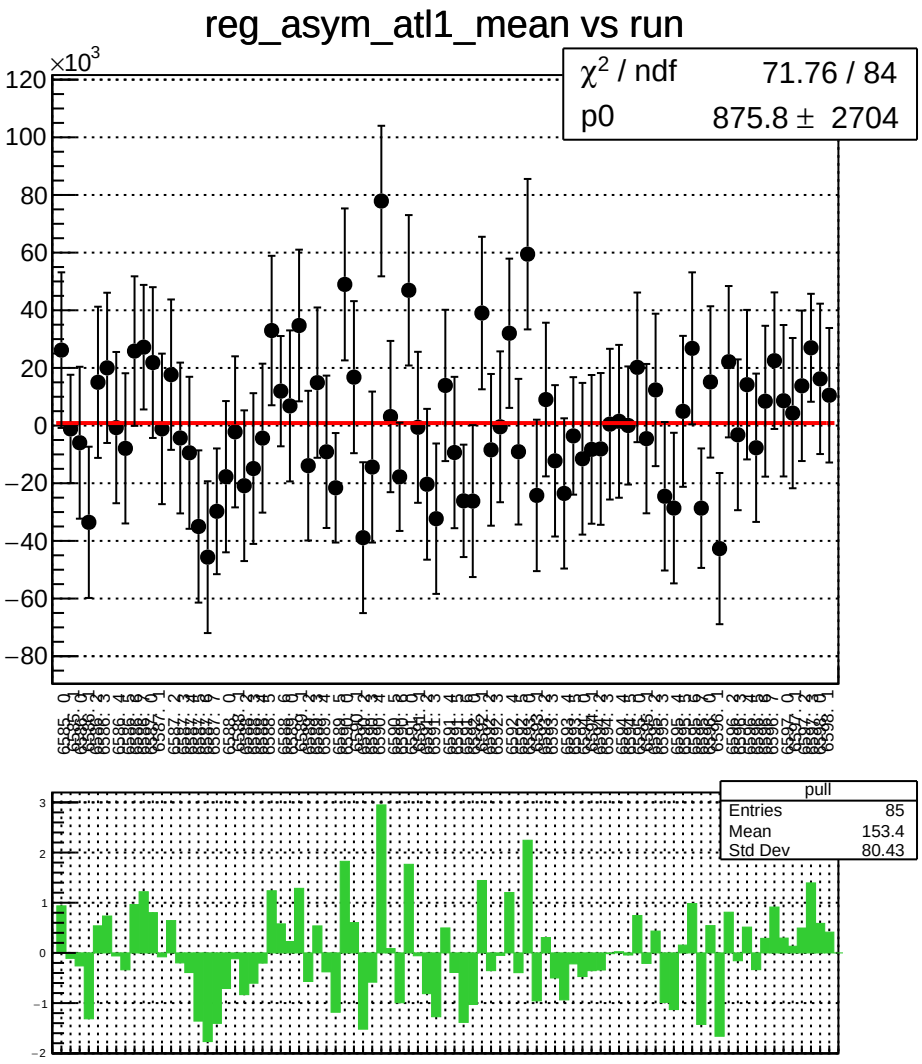


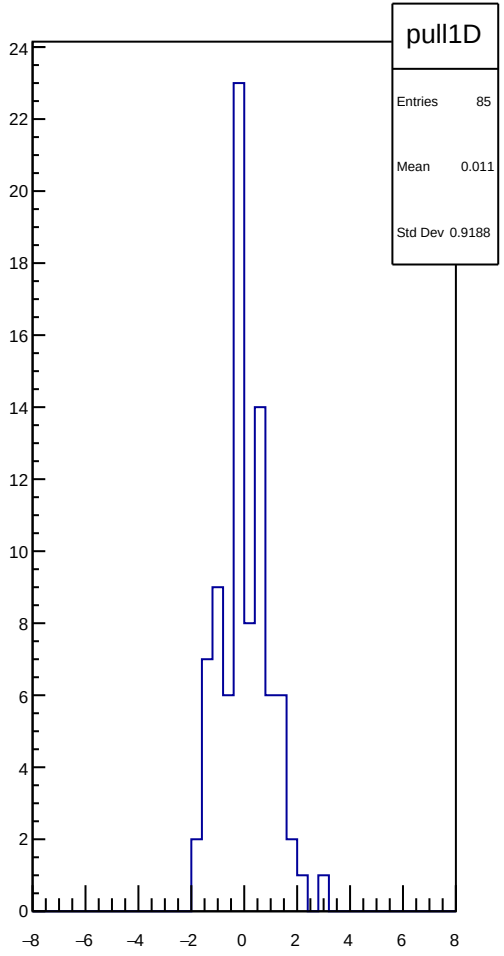

asym_us_agg_avg_mean vs run
χ² / ndf 95.35 / 84
p0 −2412 ± 1793
pull
Entries 85
Mean 292.1
Std Dev 272.7
pull1D
Entries 85
Mean 0.01027
Std Dev 1.059

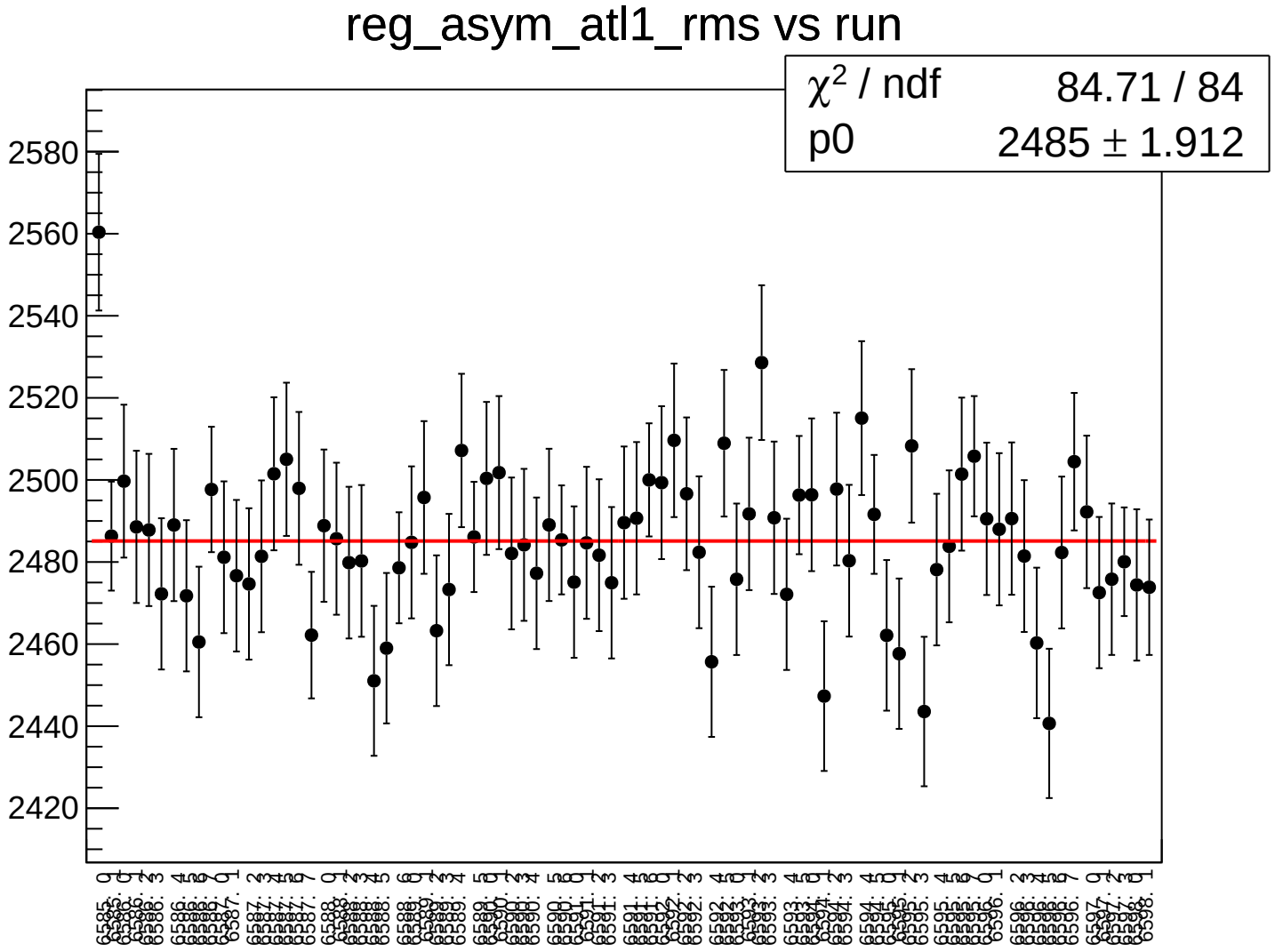

asym_us_agg_avg_rms vs run
χ^2 / ndf 9689 / 84
p0 1643 ± 1.268
2000
1900
1800
1700
1600
1500
1400

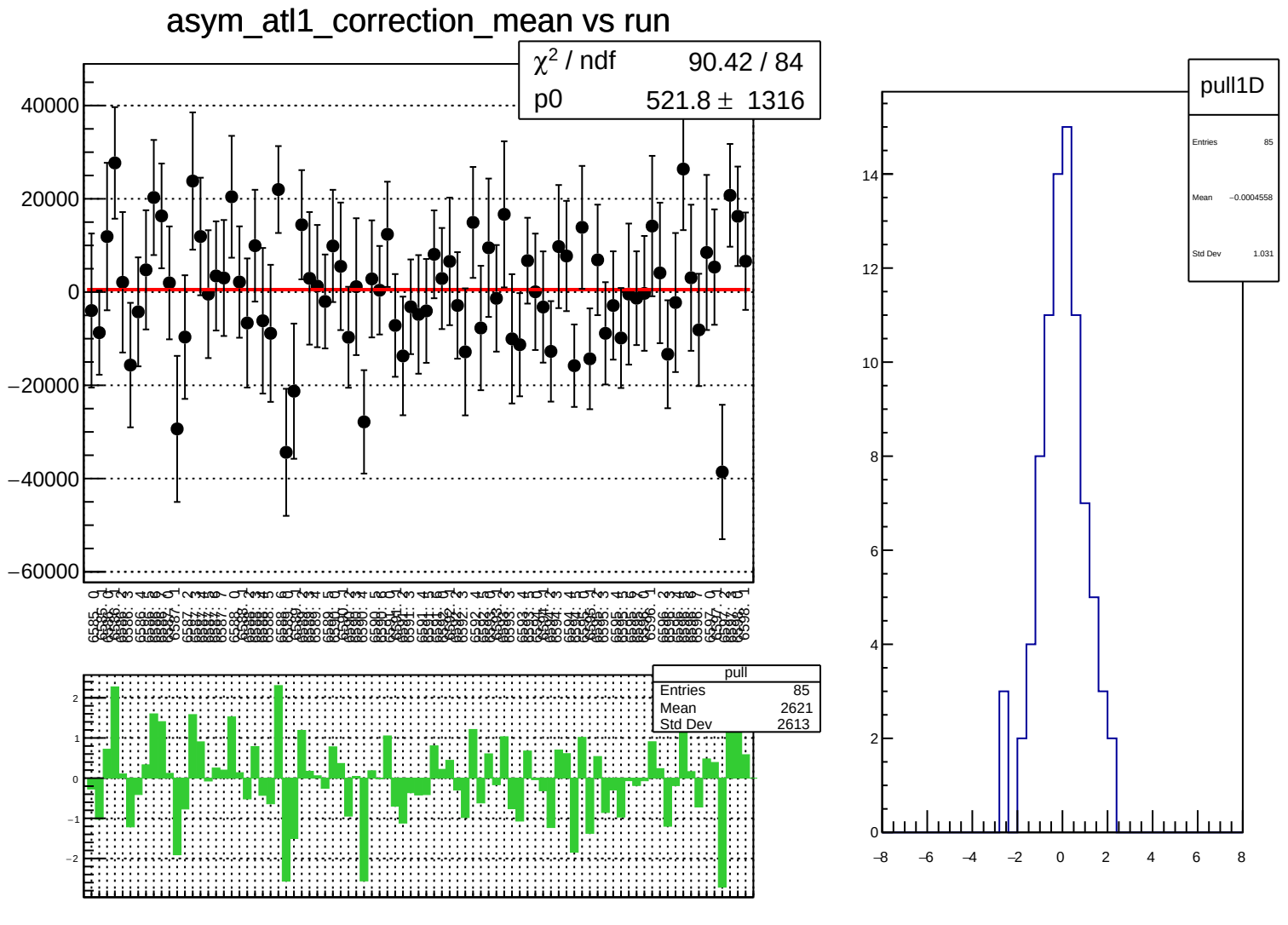

asym_us_agg_dd_mean vs run
χ^2 / ndf 84.05 / 84
p0 1365 ± 1012
pull
Entries 85
Mean 7191
Std Dev 7132
pull1D
Entries 85
Mean −0.0002533
Std Dev 0.9944


asym_us_agg_dd_rms vs run
χ^2 / ndf 989.3 / 84
p0 929.9 ± 0.7157
1020
1000
980
960
940
920
900
880

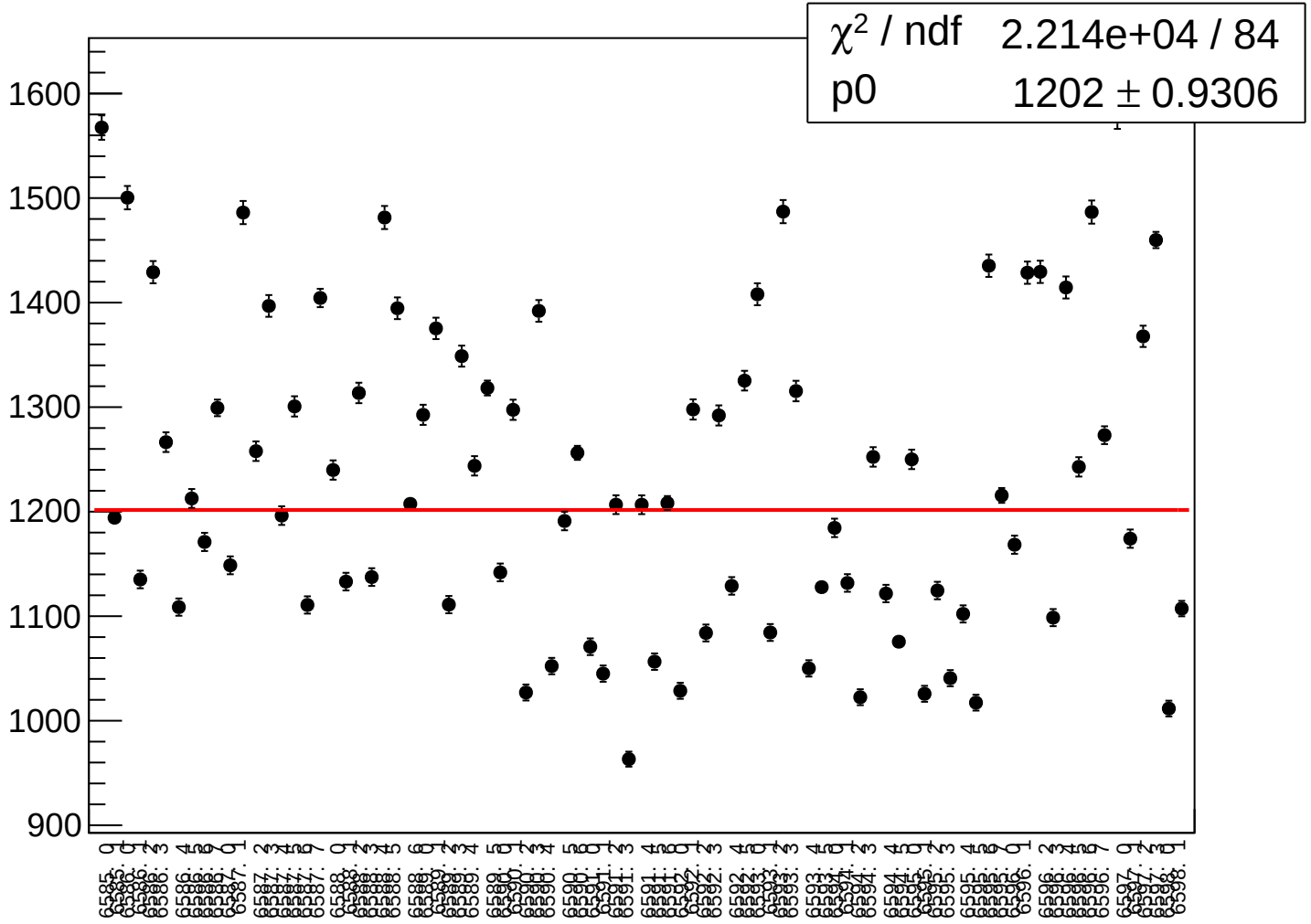

reg_asym_atl1_mean vs run
χ^2 / ndf 71.76 / 84
p0 875.8 ± 2704
×10^3
pull
Entries 85
Mean 153.4
Std Dev 80.43

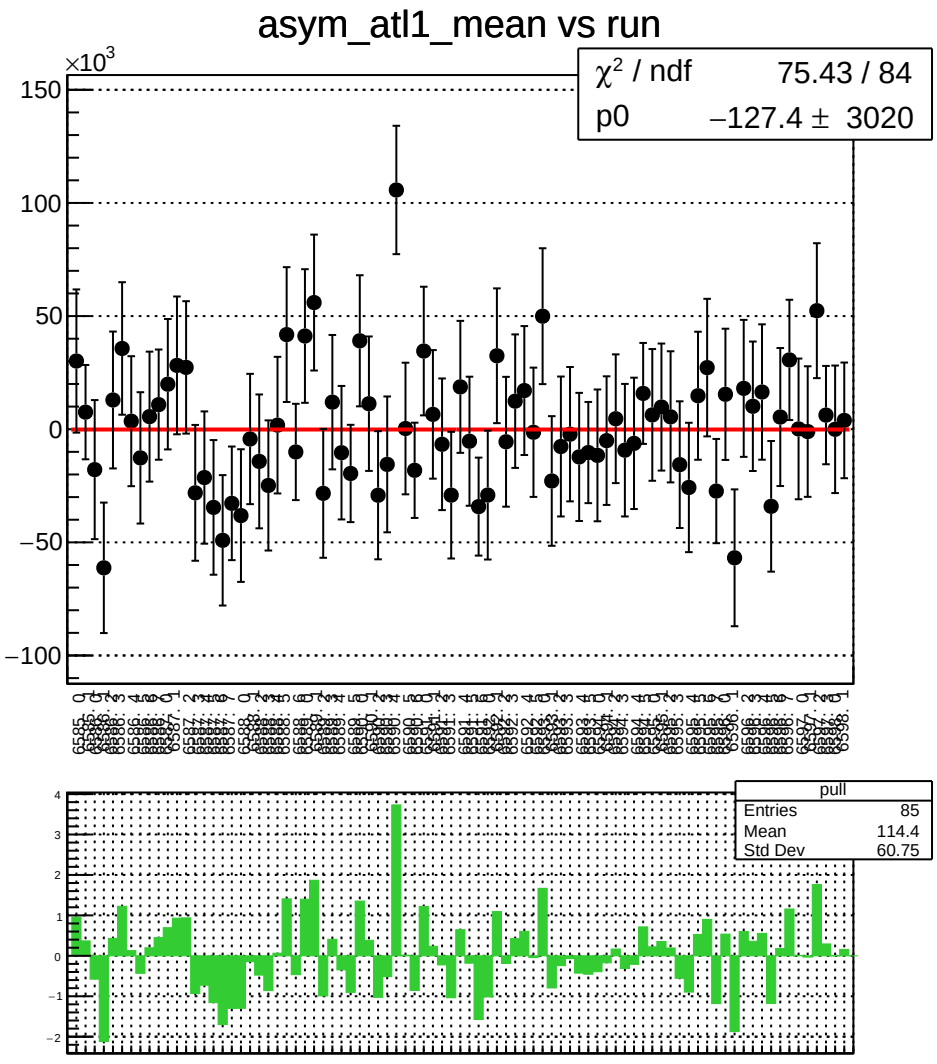

pull1D
Entries 85
Mean 0.011
Std Dev 0.9188

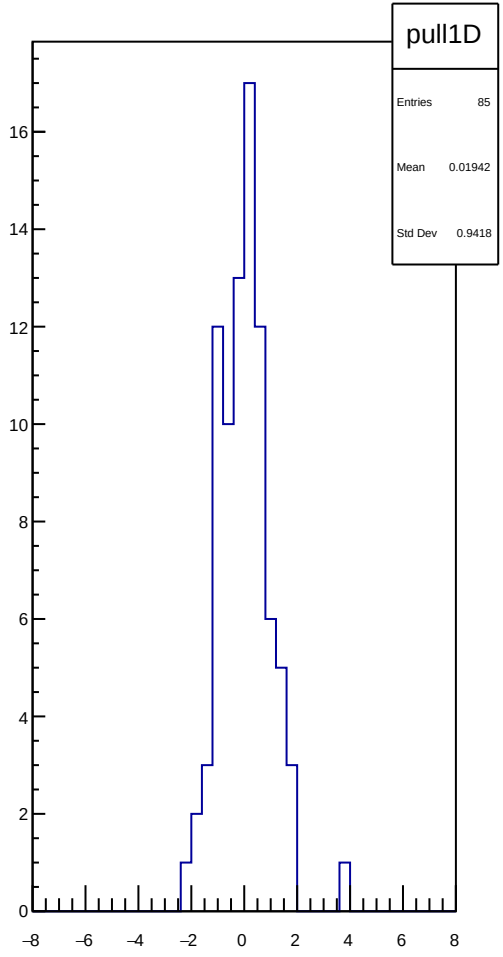

reg_asym_atl1_rms vs run
χ² / ndf 84.71 / 84
p0 2485 ± 1.912
2580
2560
2540
2520
2500
2480
2460
2440
2420

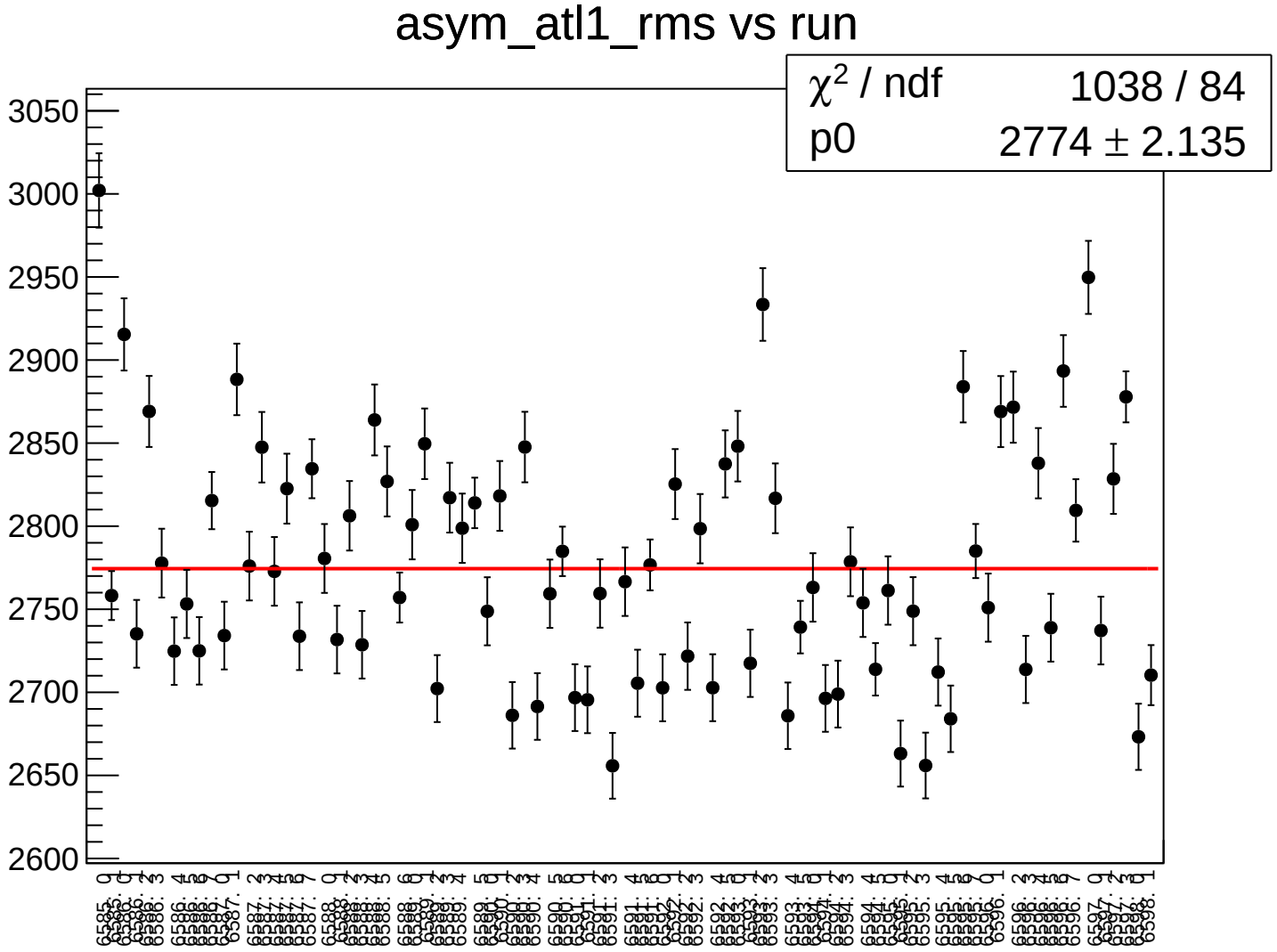

asym_atl1_correction_mean vs run
χ² / ndf 90.42 / 84
p0 521.8 ± 1316
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 2621
Std Dev 2613
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.0004558
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

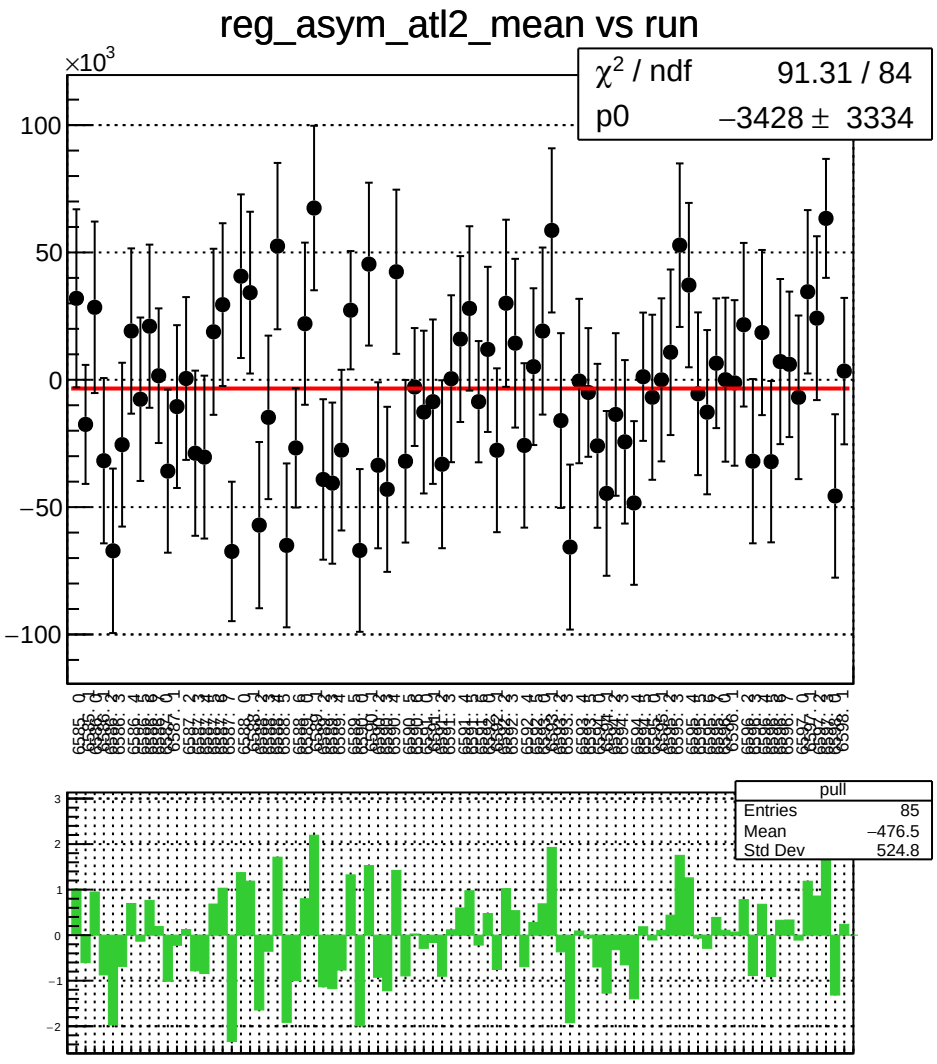
asym_atl1_correction_rms vs run

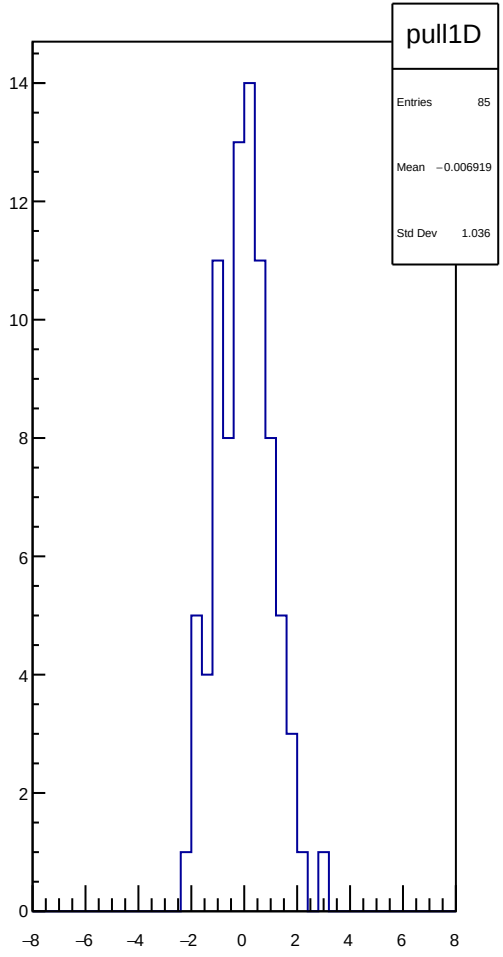


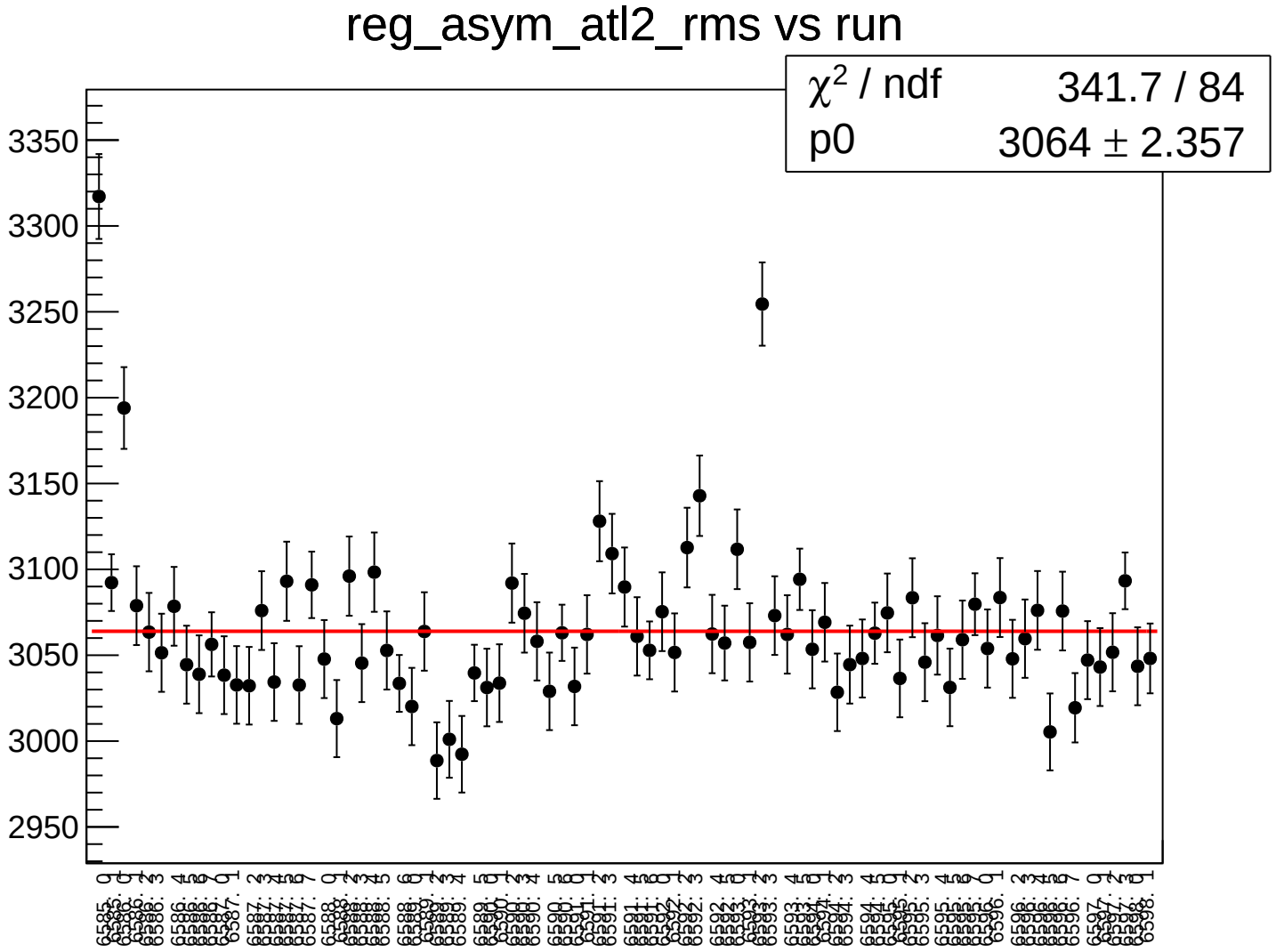

asym_atl1_mean vs run
×10^3
χ² / ndf 75.43 / 84
p0 −127.4 ± 3020
pull
Entries 85
Mean 114.4
Std Dev 60.75

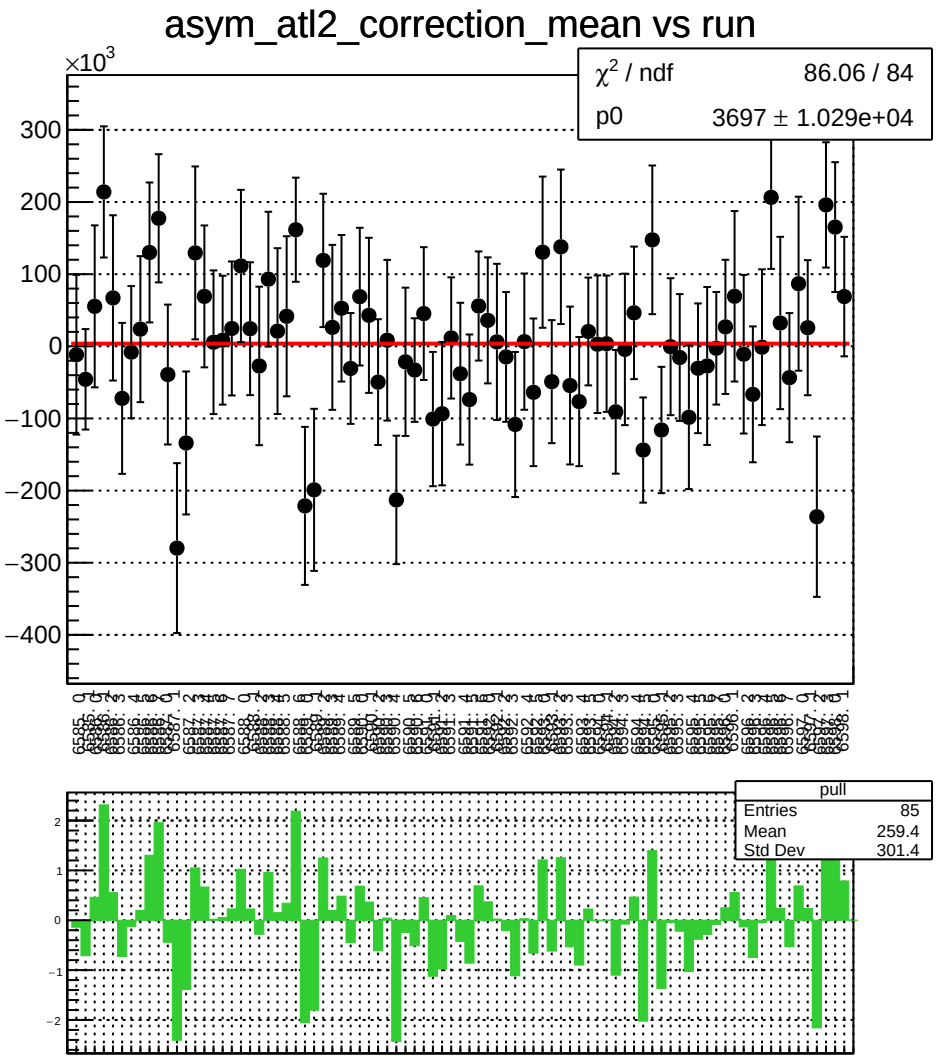

pull1D
Entries 85
Mean 0.01942
Std Dev 0.9418

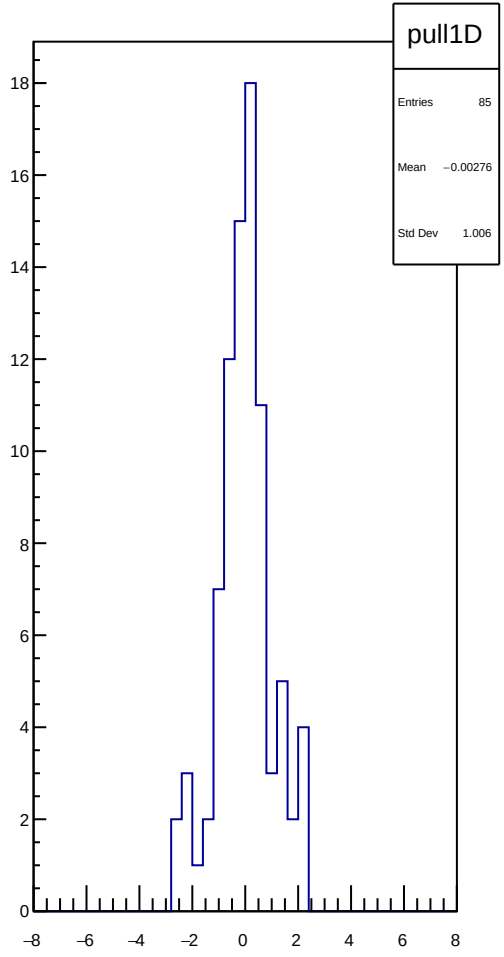

asym_atl1_rms vs run
χ² / ndf 1038 / 84
p0 2774 ± 2.135
3050
3000
2950
2900
2850
2800
2750
2700
2650
2600


reg_asym_atl2_mean vs run
×10^3
χ² / ndf 91.31 / 84
p0 −3428 ± 3334
100
50
0
−50
−100
pull
Entries 85
Mean −476.5
Std Dev 524.8
3
2
1
0
−1
−2

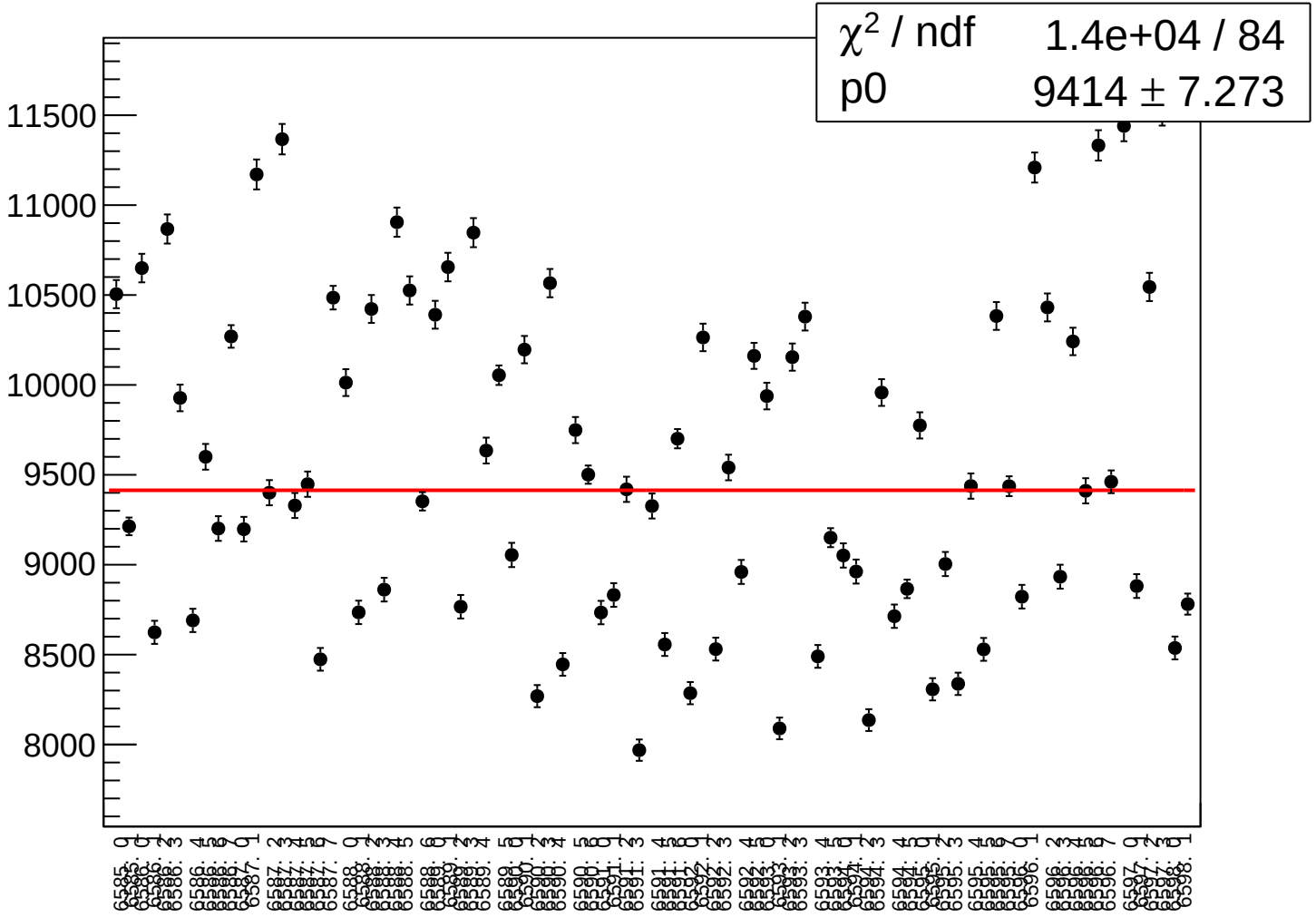

pull1D
Entries 85
Mean −0.006919
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

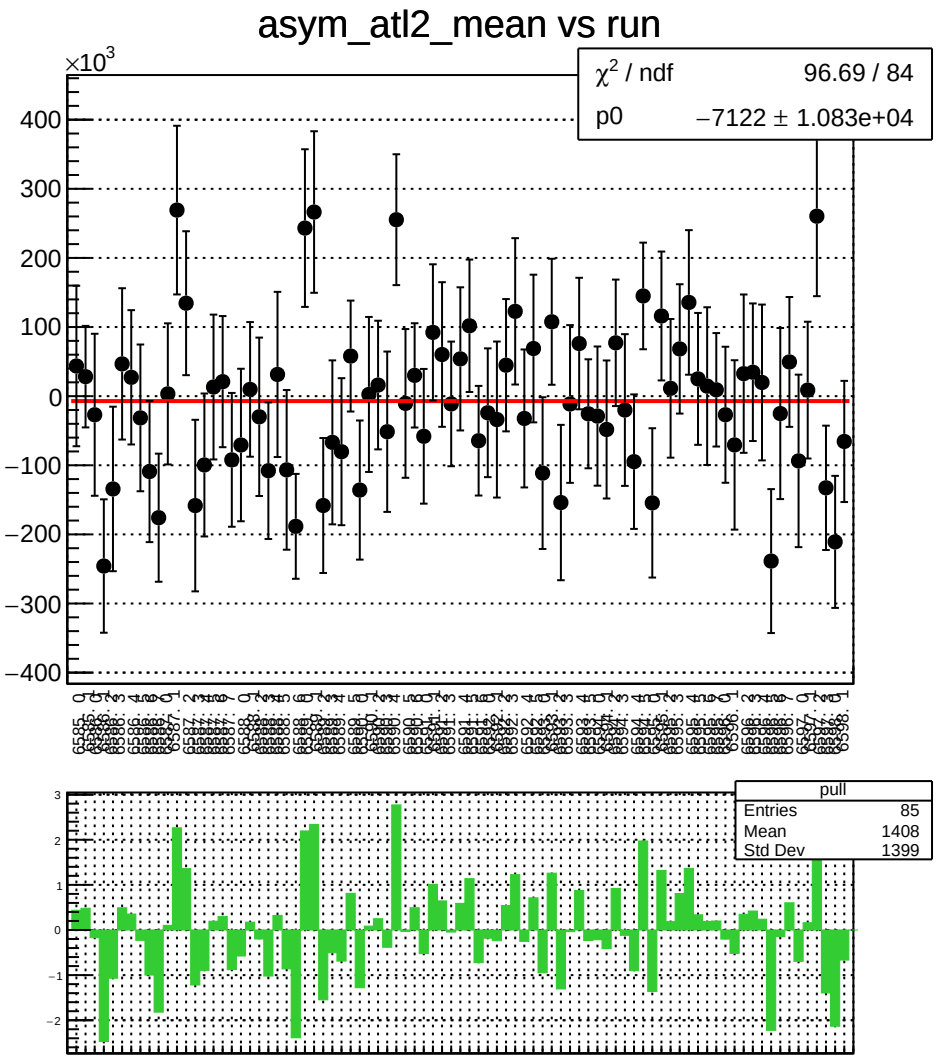

reg_asym_atl2_rms vs run
χ² / ndf 341.7 / 84
p0 3064 ± 2.357
3350
3300
3250
3200
3150
3100
3050
3000
2950

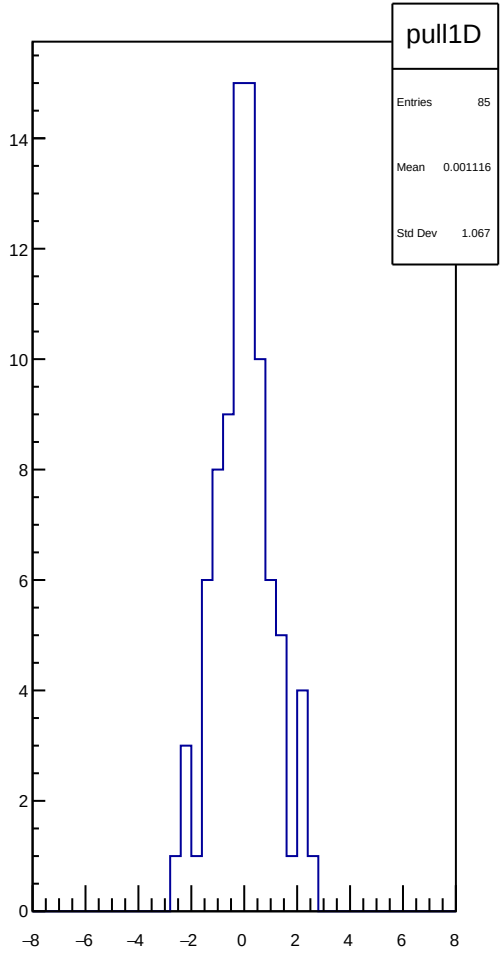

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 86.06 / 84
p0 3697 ± 1.029e+04
pull
Entries 85
Mean 259.4
Std Dev 301.4

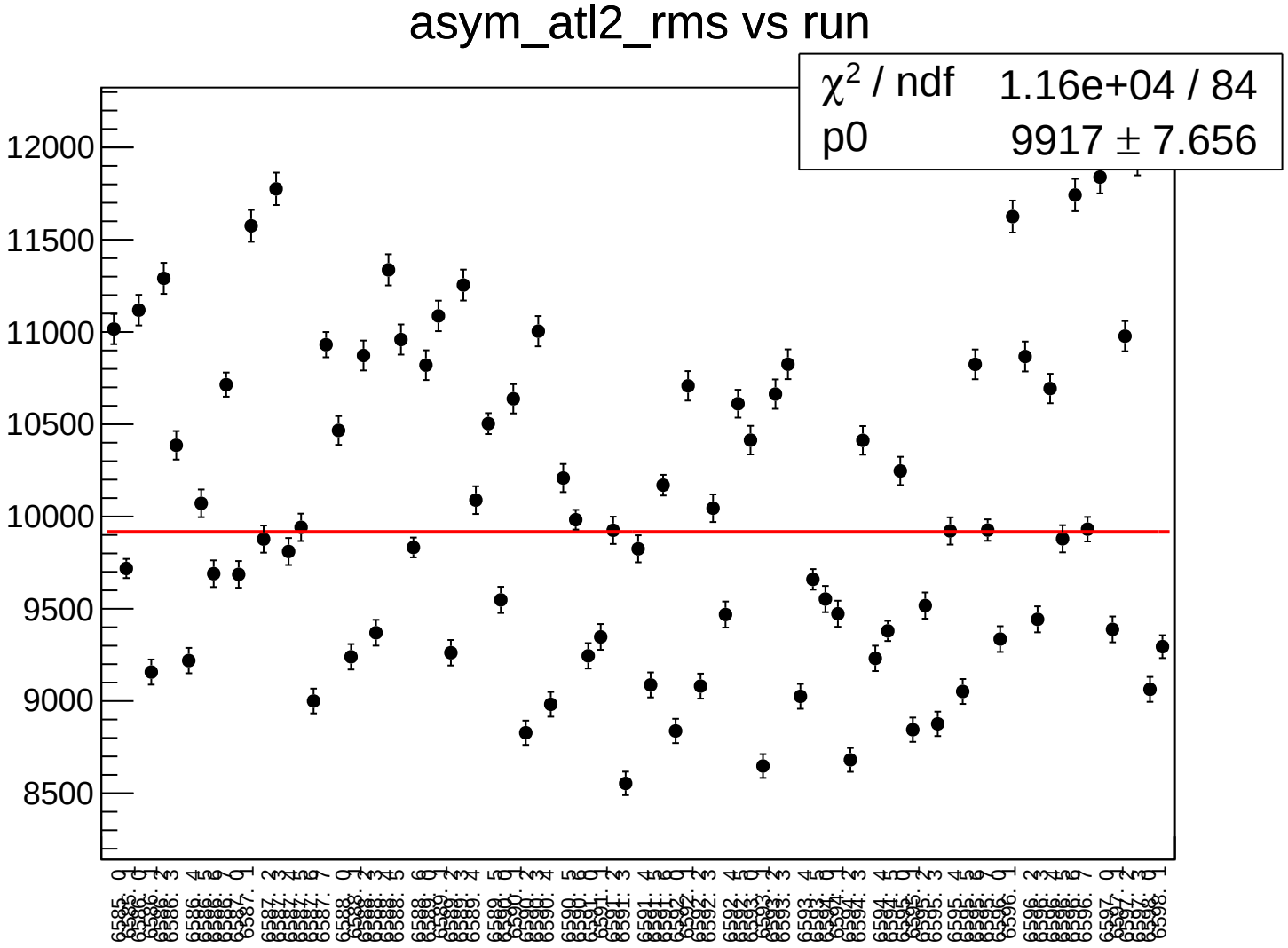

pull1D
Entries 85
Mean −0.00276
Std Dev 1.006

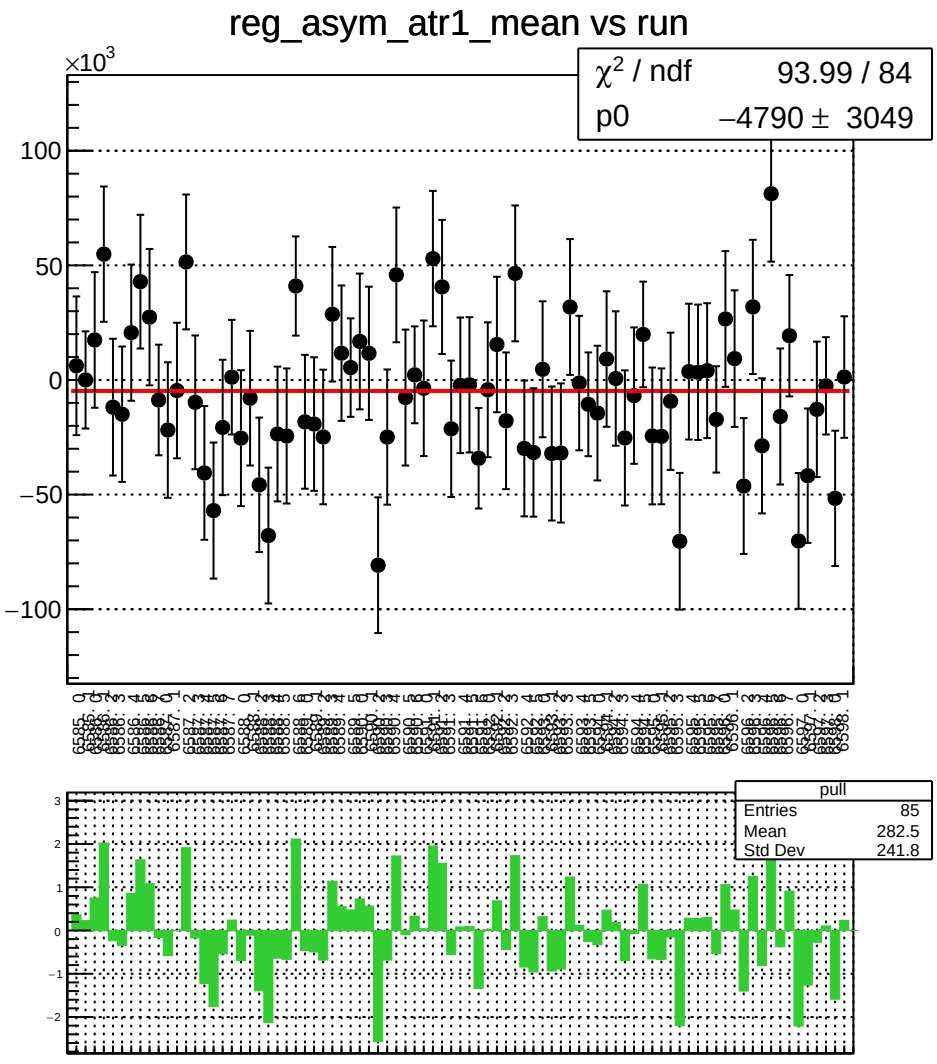
asym_atl2_correction_rms vs run

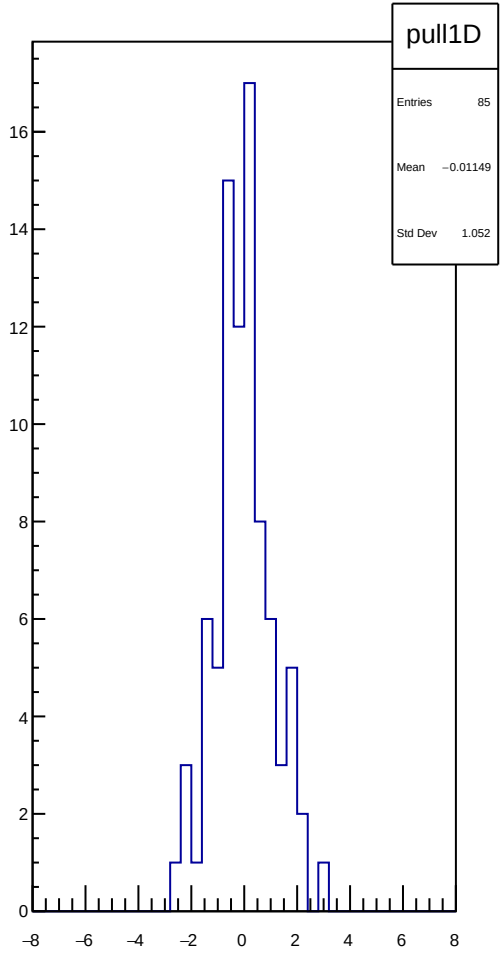


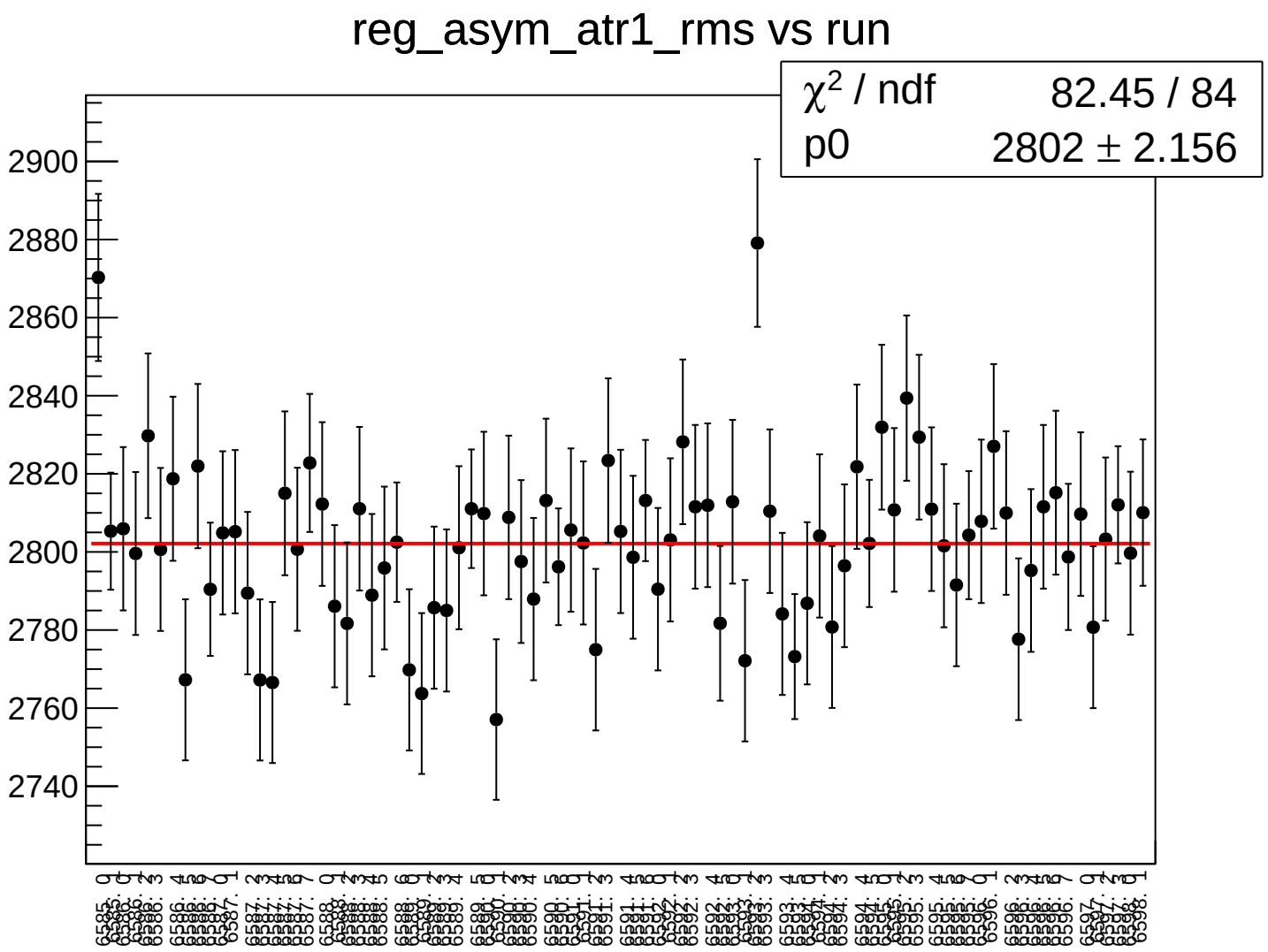

asym_atl2_mean vs run
×10^3
χ² / ndf 96.69 / 84
p0 −7122 ± 1.083e+04
pull
Entries 85
Mean 1408
Std Dev 1399

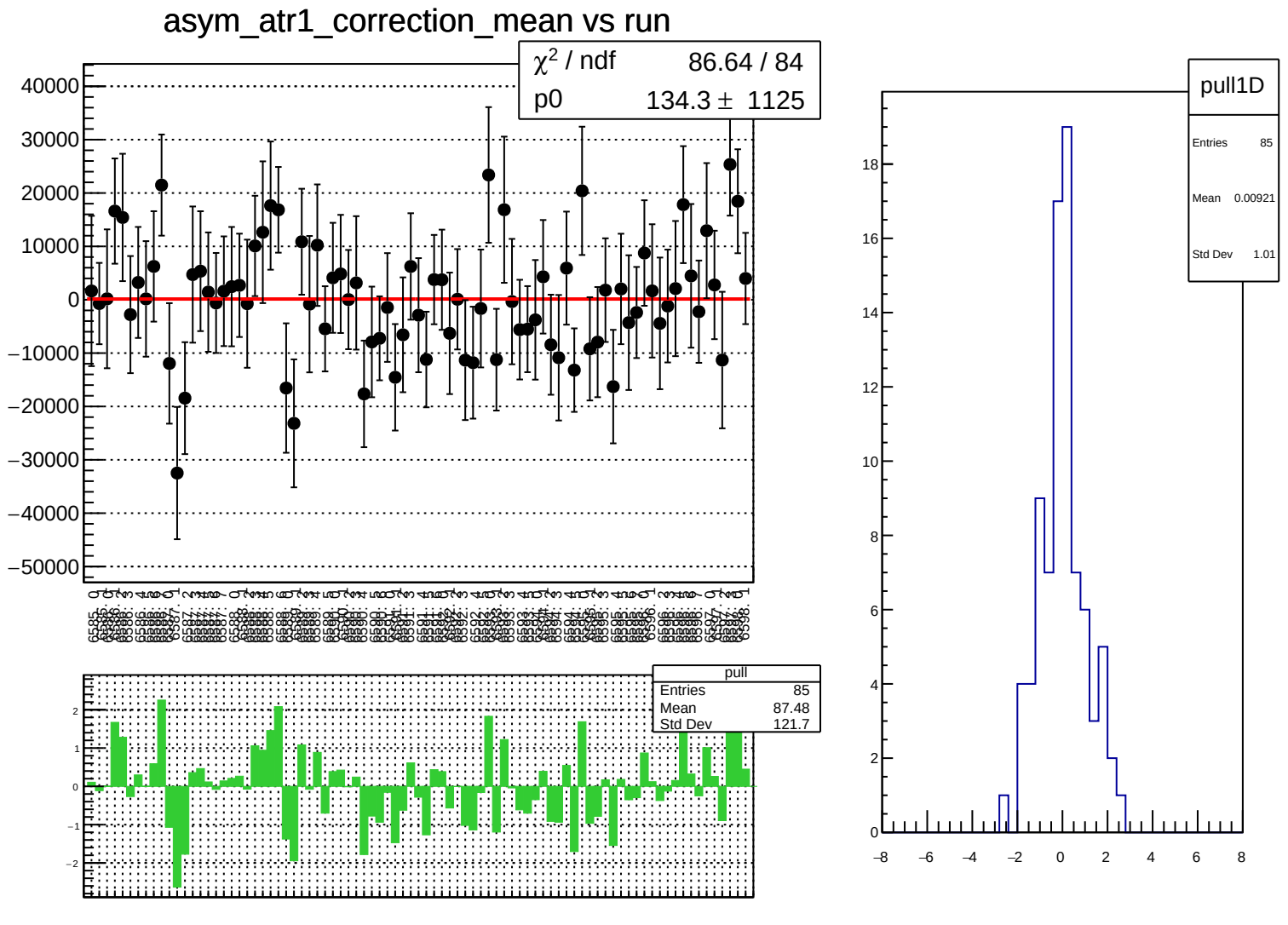

pull1D
Entries 85
Mean 0.001116
Std Dev 1.067


asym_atl2_rms vs run
χ2 / ndf 1.16e+04 / 84
p0 9917 ± 7.656
12000
11500
11000
10500
10000
9500
9000
8500

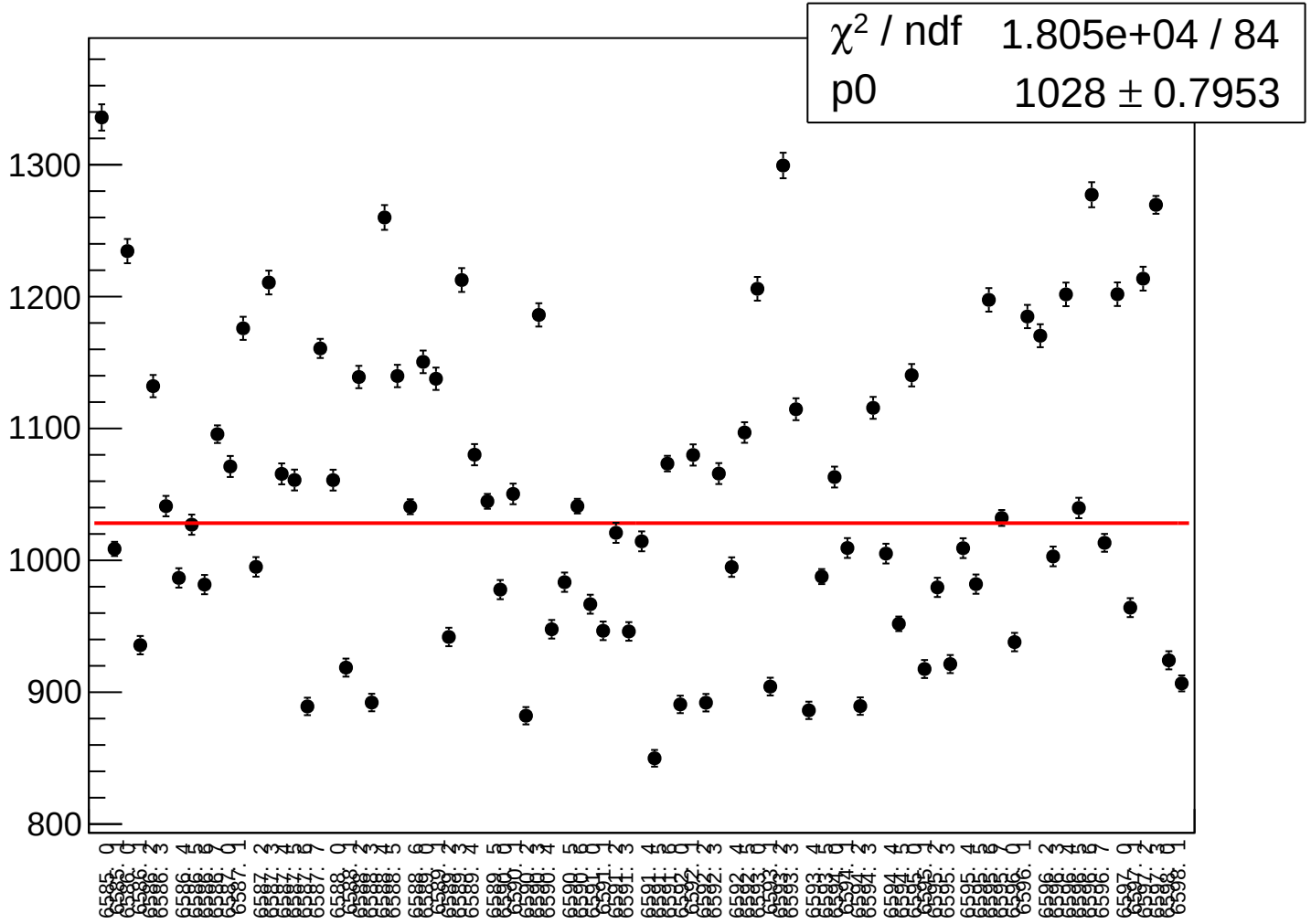

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 93.99 / 84
p0 −4790 ± 3049
pull
Entries 85
Mean 282.5
Std Dev 241.8

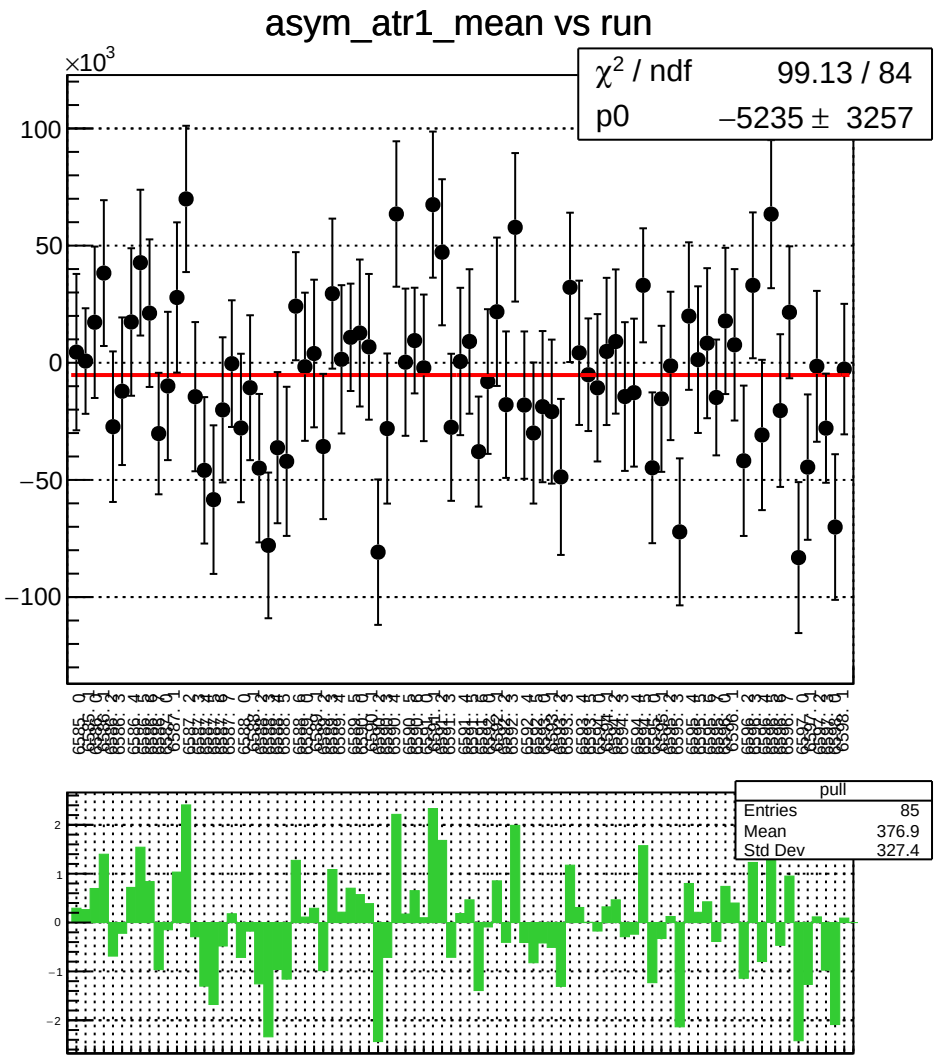

pull1D
Entries 85
Mean −0.01149
Std Dev 1.052

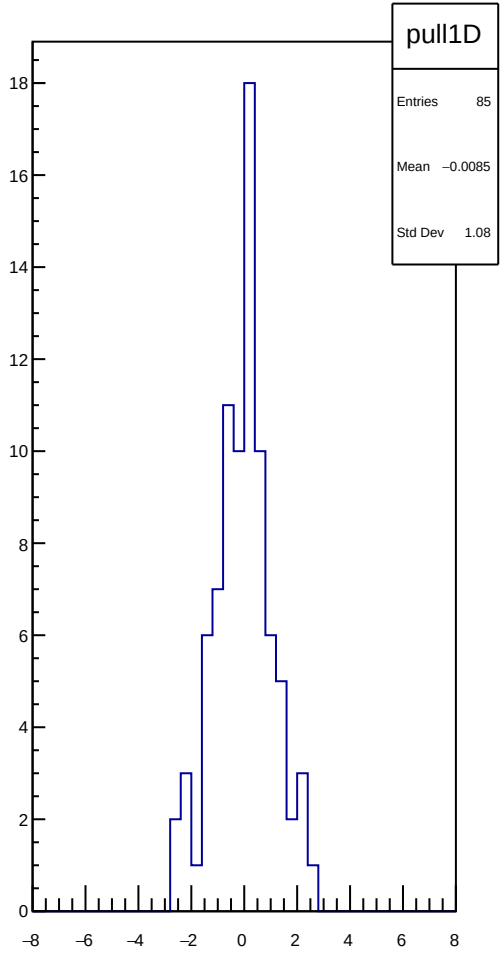

reg_asym_atr1_rms vs run
χ² / ndf 82.45 / 84
p0 2802 ± 2.156
2900
2880
2860
2840
2820
2800
2780
2760
2740

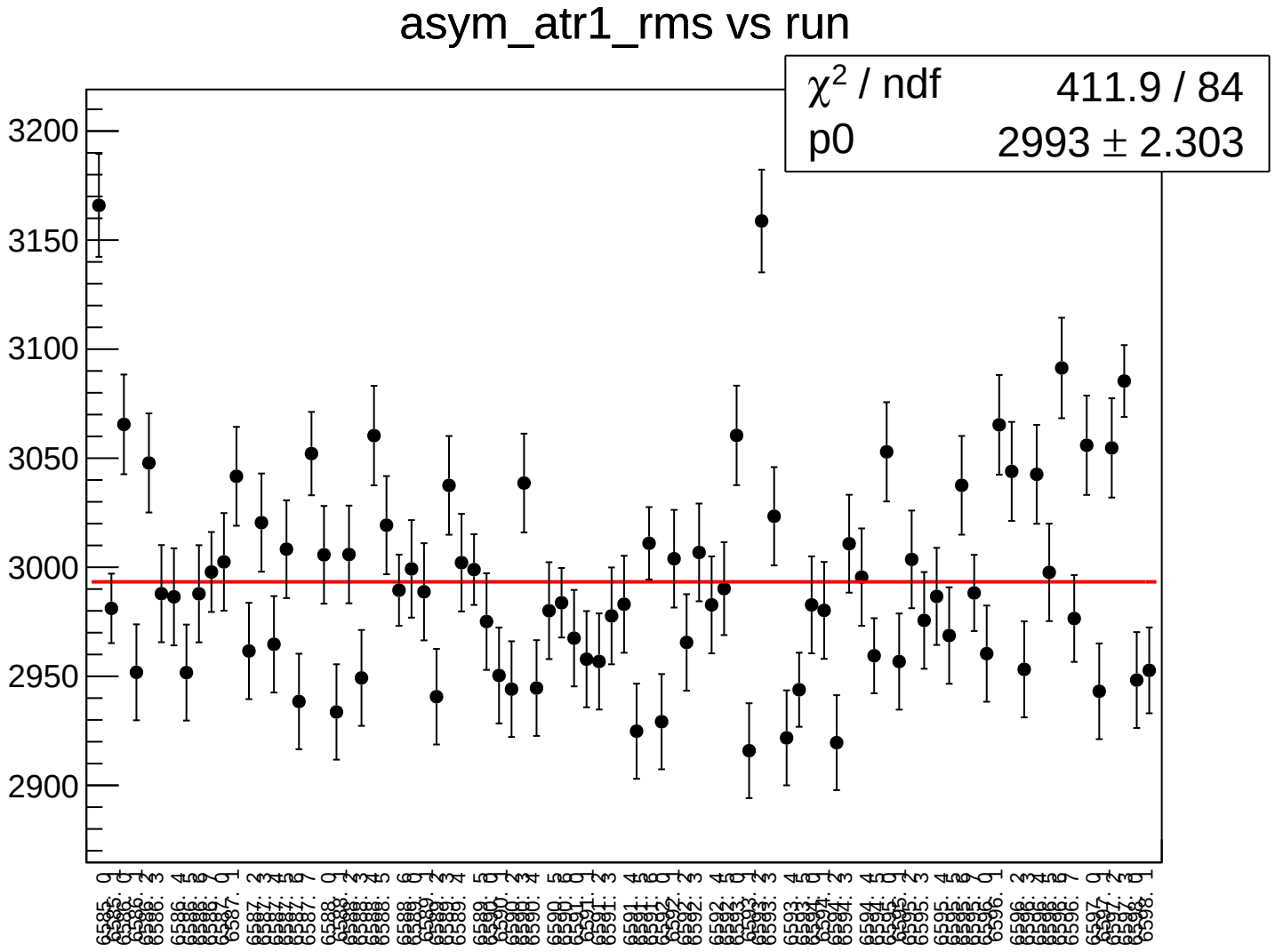

asym_atr1_correction_mean vs run
χ² / ndf 86.64 / 84
p0 134.3 ± 1125
pull
Entries 85
Mean 87.48
Std Dev 121.7
pull1D
Entries 85
Mean 0.00921
Std Dev 1.01

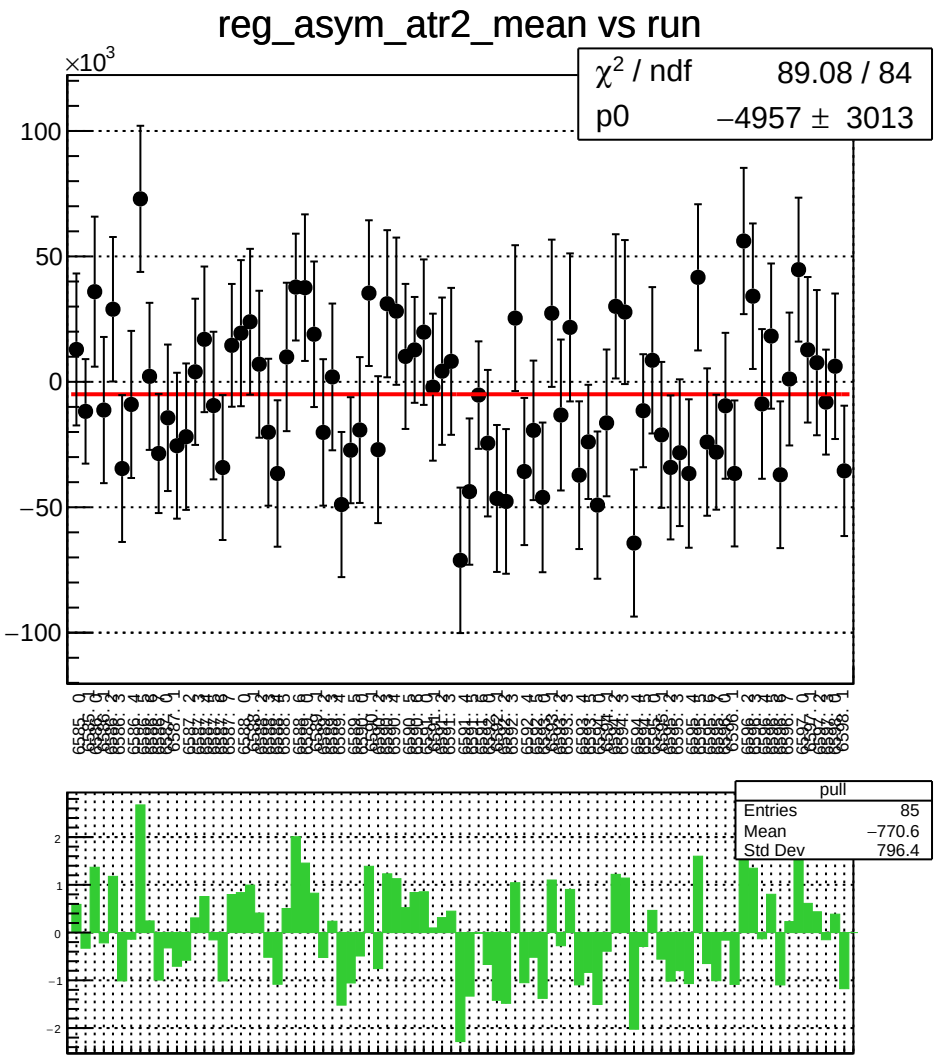
asym_atr1_correction_rms vs run

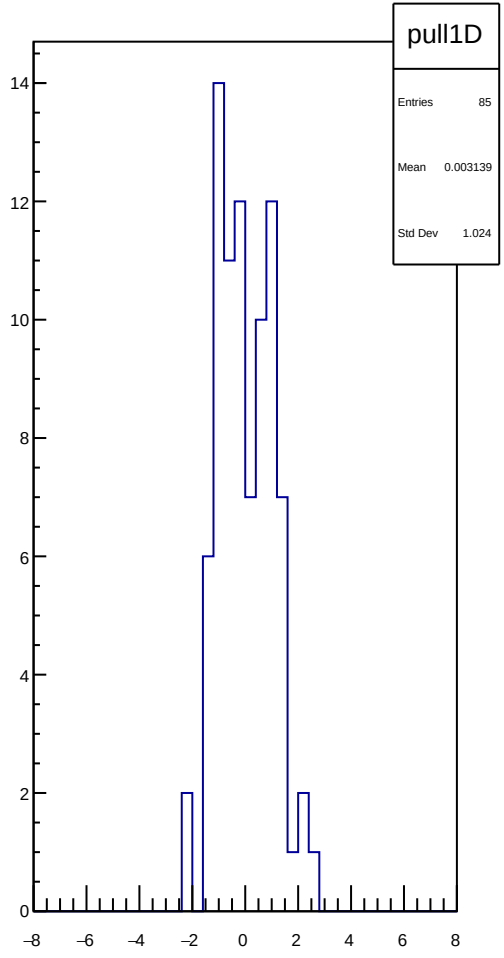


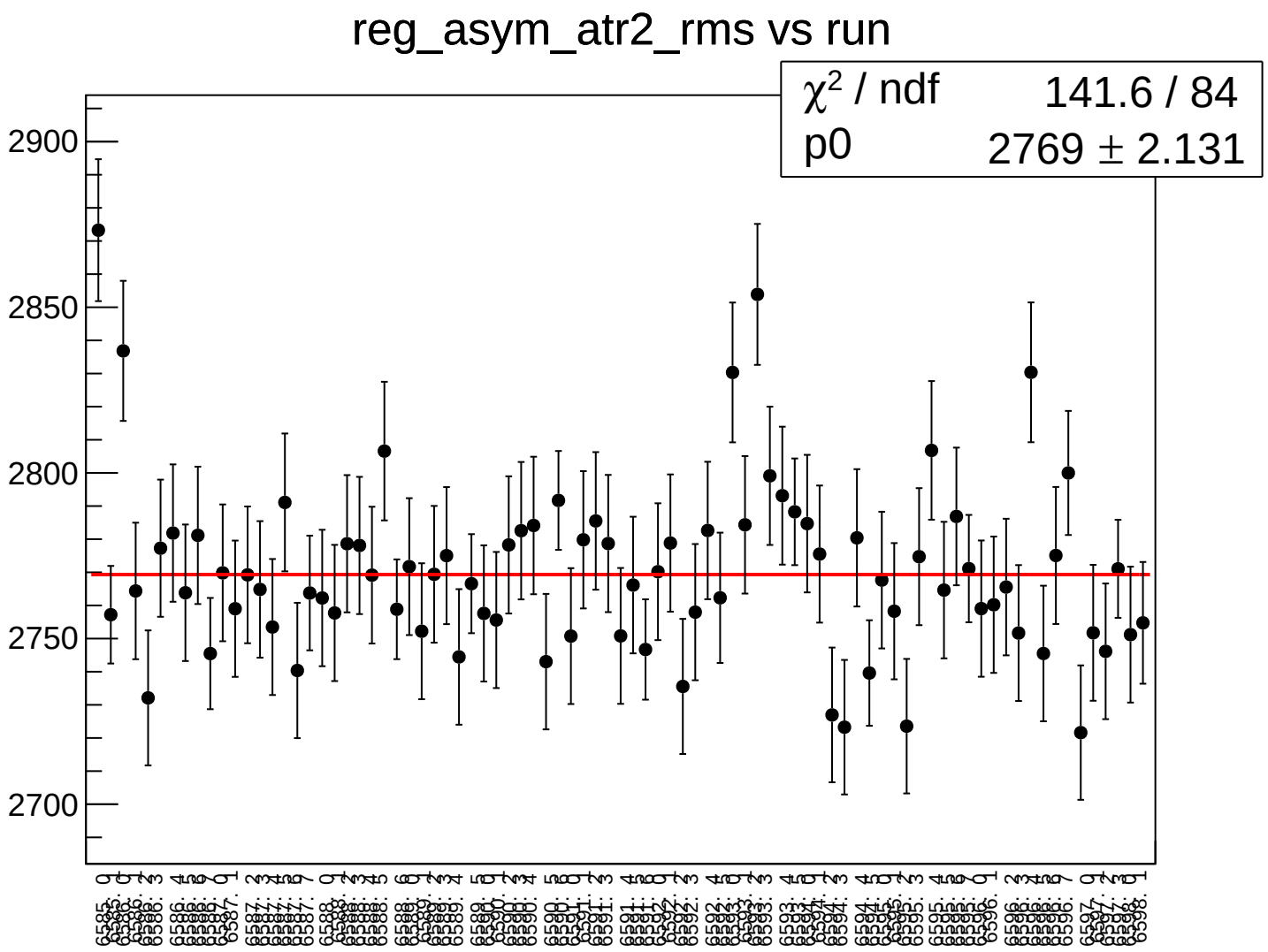

asym_atr1_mean vs run
×10^3
χ² / ndf 99.13 / 84
p0 −5235 ± 3257
pull
Entries 85
Mean 376.9
Std Dev 327.4

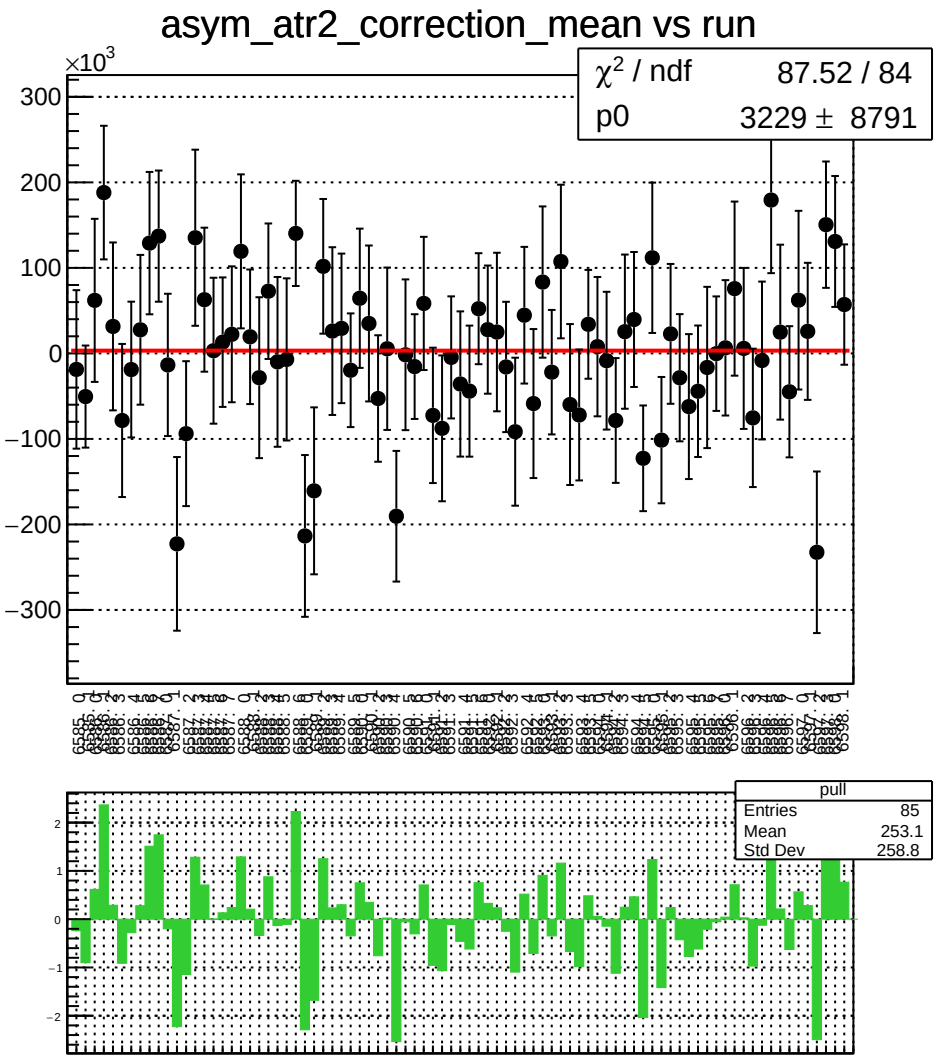

pull1D
Entries 85
Mean −0.0085
Std Dev 1.08

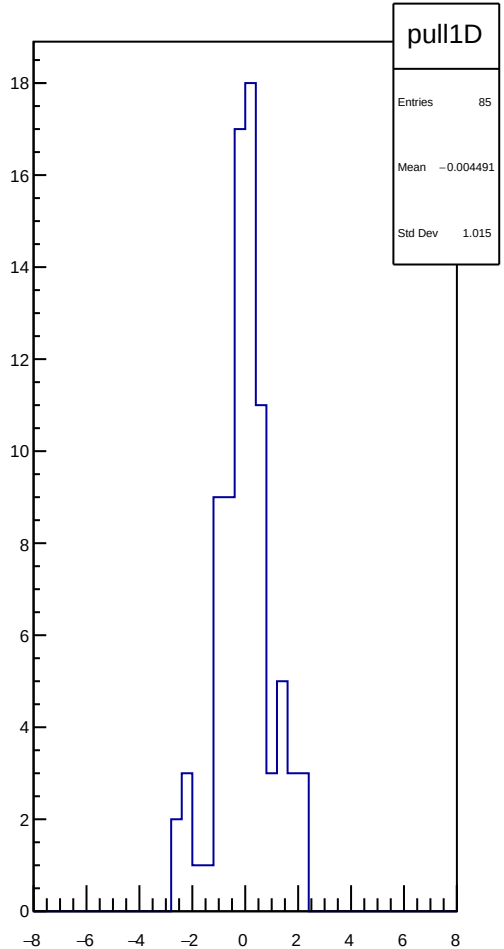

asym_atr1_rms vs run
χ² / ndf 411.9 / 84
p0 2993 ± 2.303
3200
3150
3100
3050
3000
2950
2900


reg_asym_atr2_mean vs run
×10^3
χ² / ndf 89.08 / 84
p0 −4957 ± 3013
100
50
0
−50
−100
pull
Entries 85
Mean −770.6
Std Dev 796.4
2
1
0
−1
−2

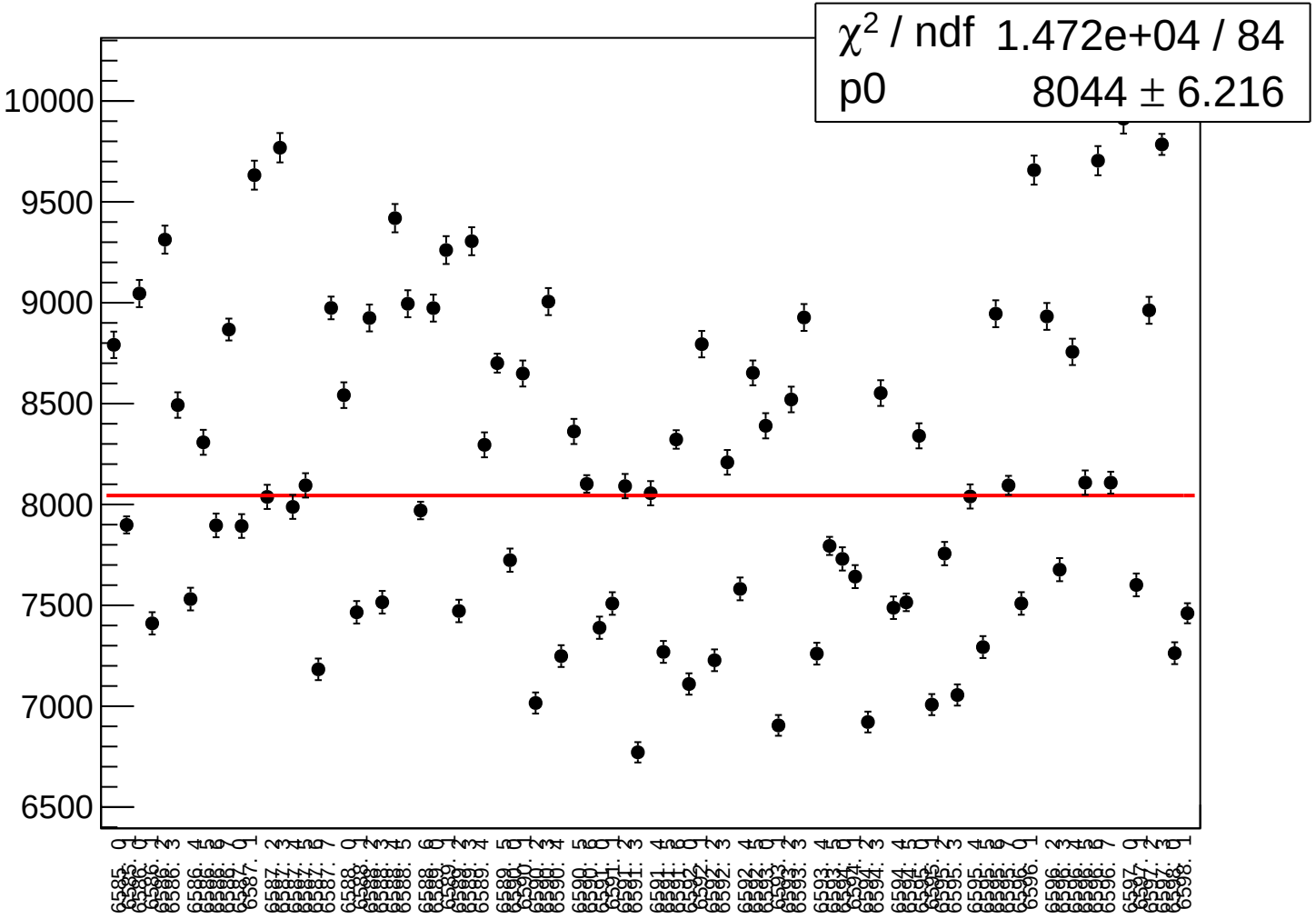

pull1D
Entries 85
Mean 0.003139
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

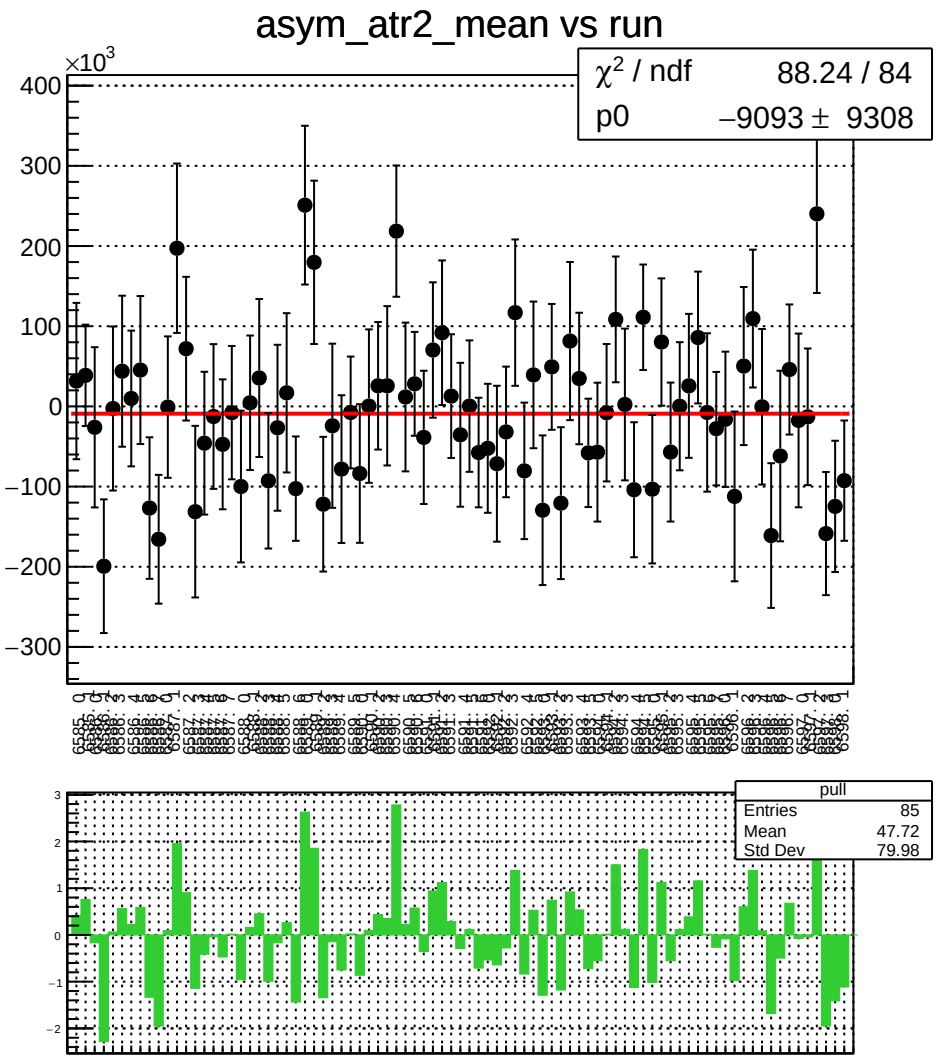

reg_asym_atr2_rms vs run
χ² / ndf 141.6 / 84
p0 2769 ± 2.131
2900
2850
2800
2750
2700

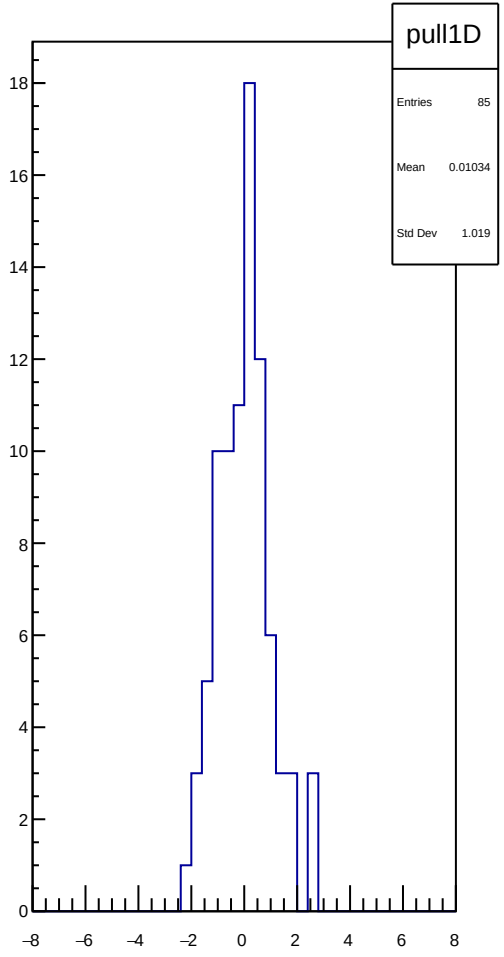

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 87.52 / 84
p0 3229 ± 8791
pull
Entries 85
Mean 253.1
Std Dev 258.8

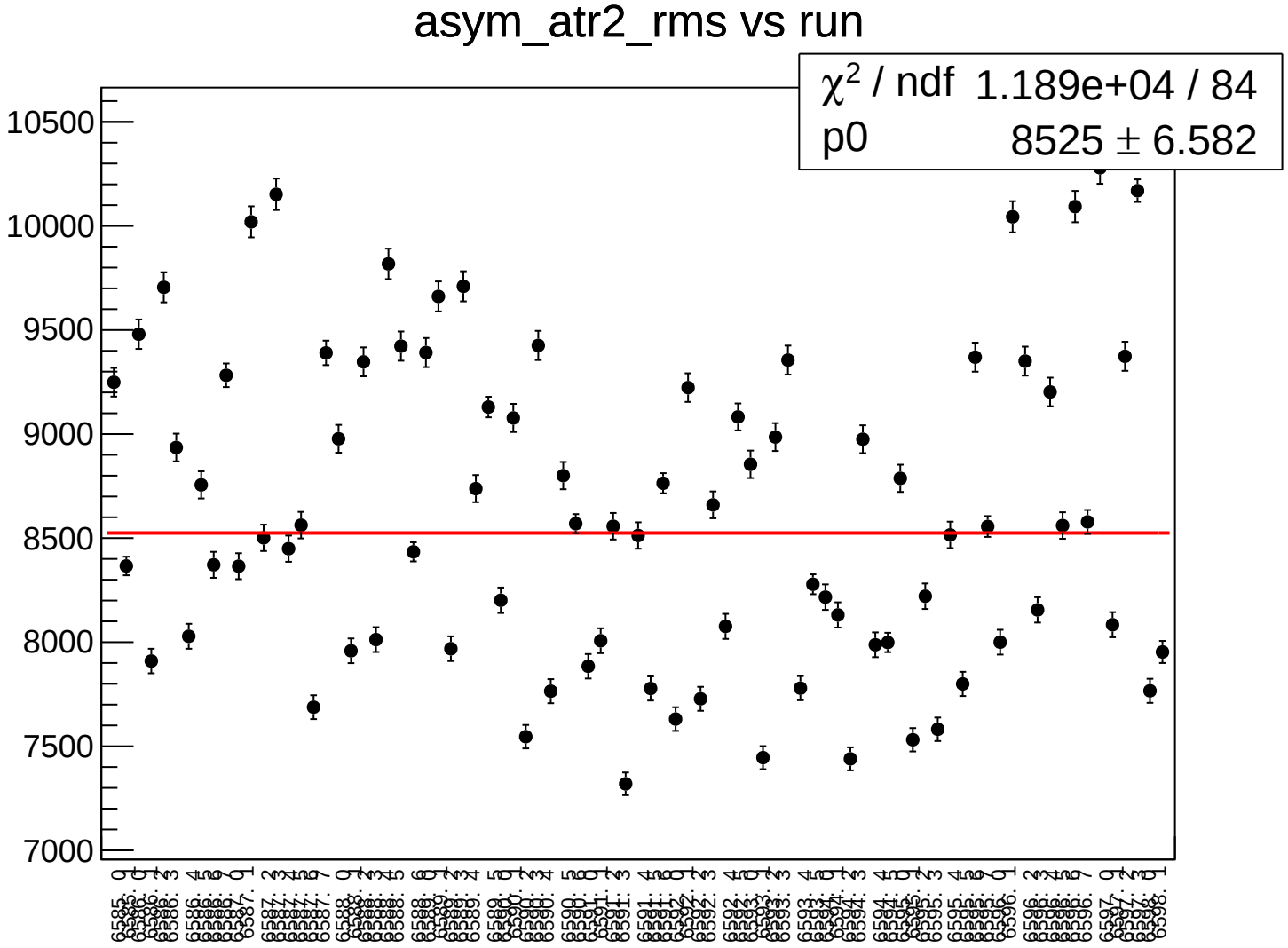

pull1D
Entries 85
Mean −0.004491
Std Dev 1.015

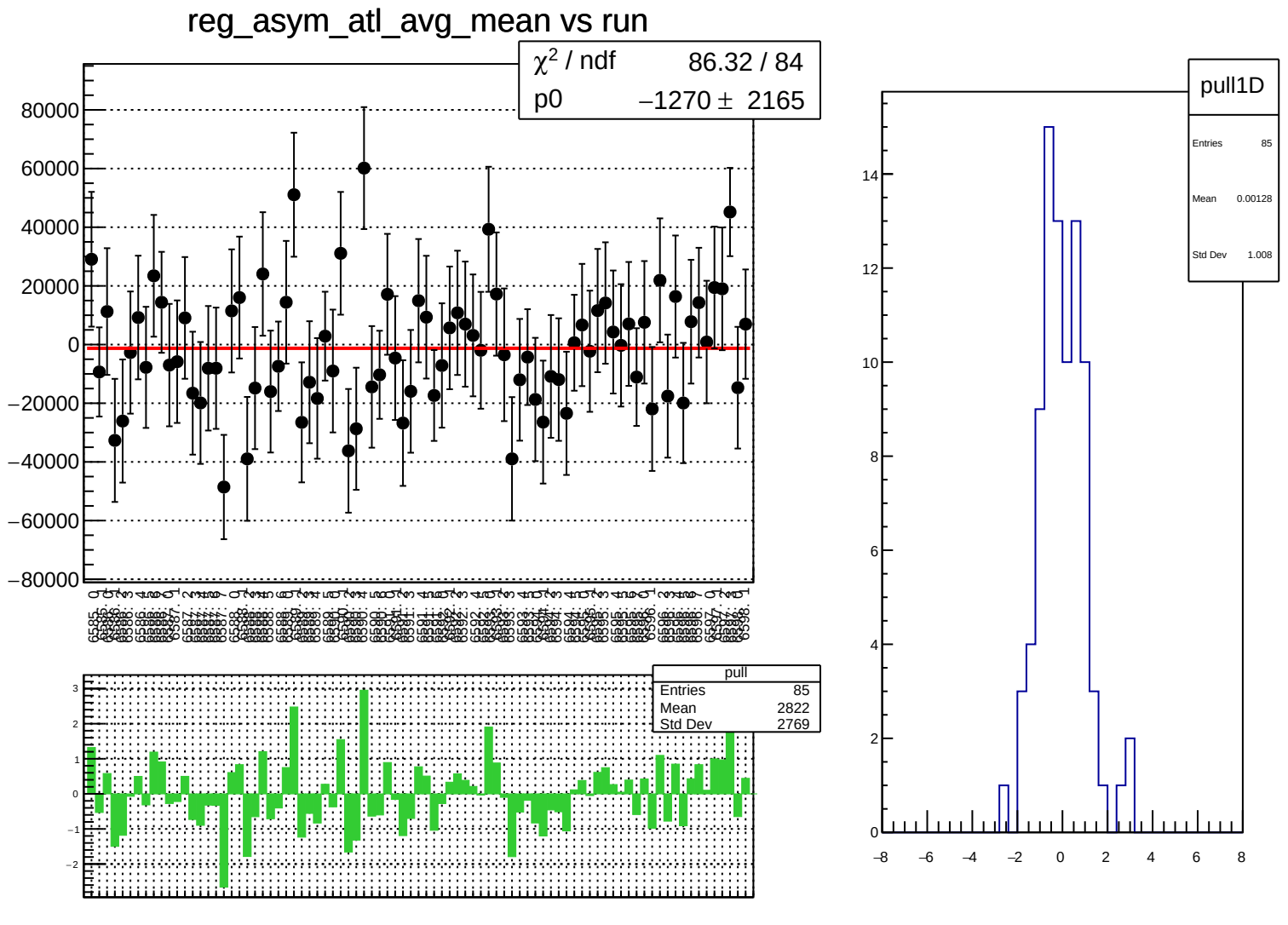
asym_atr2_correction_rms vs run



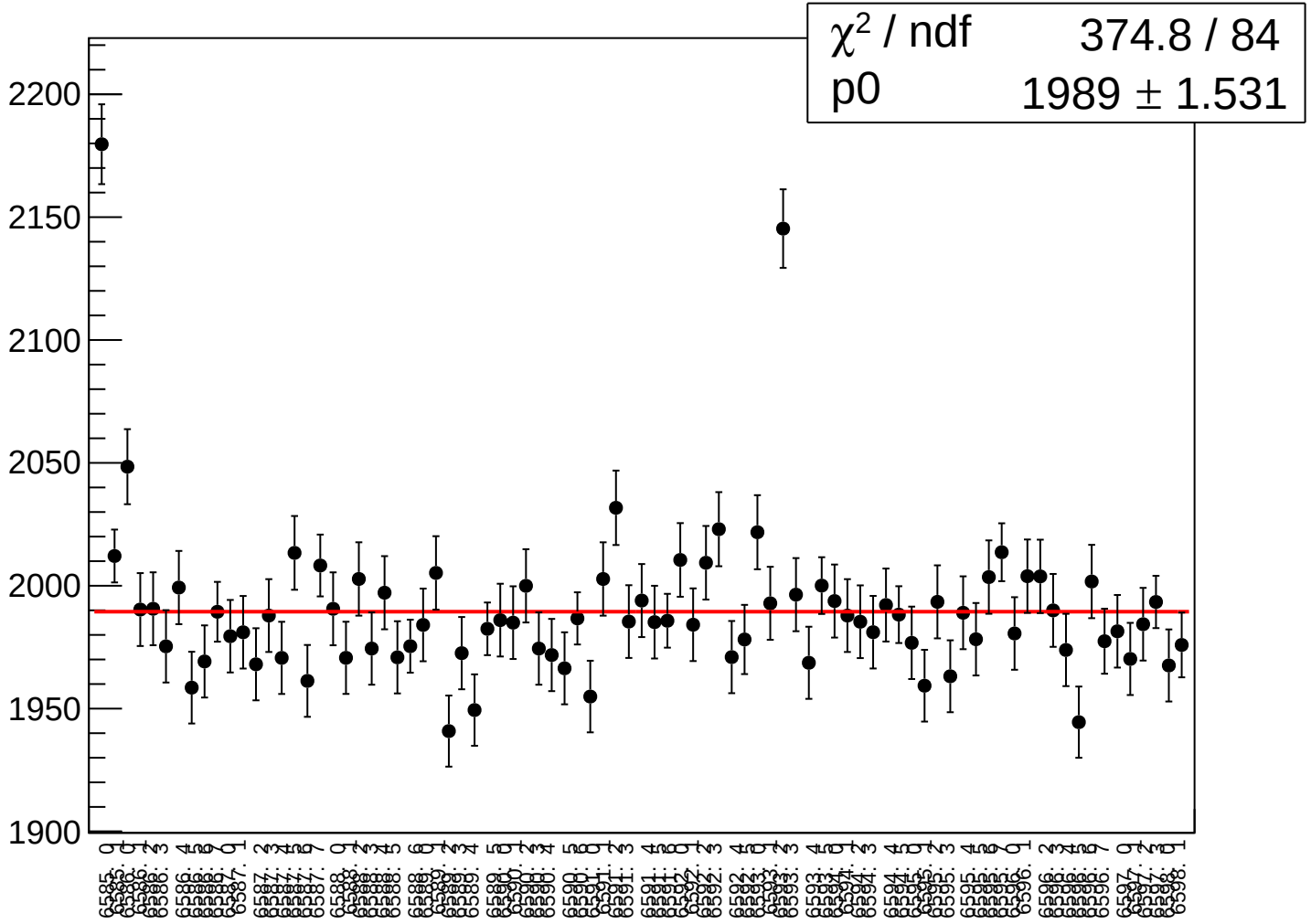

asym_atr2_mean vs run
×10^3
χ² / ndf 88.24 / 84
p0 −9093 ± 9308
pull
Entries 85
Mean 47.72
Std Dev 79.98

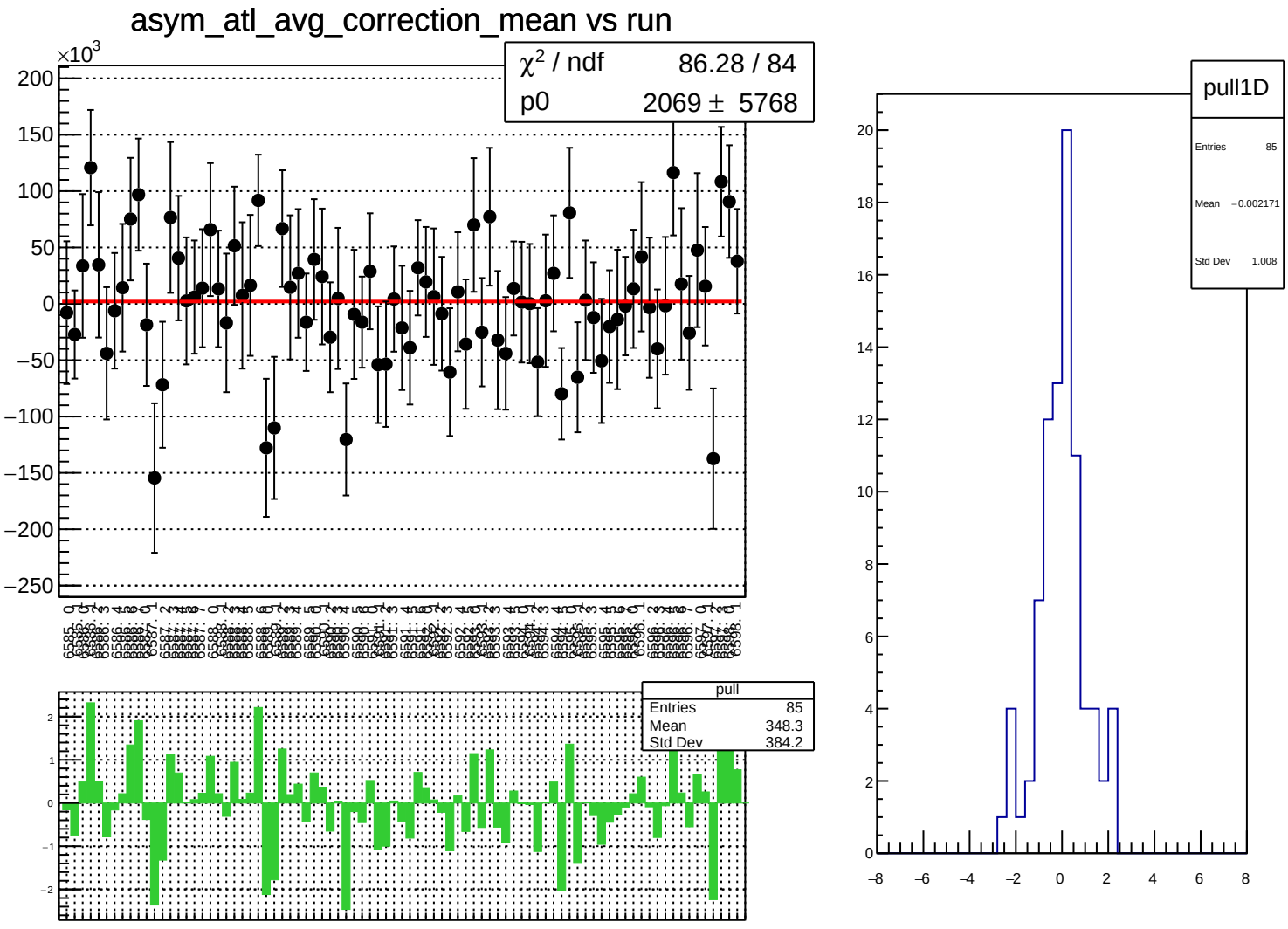

pull1D
Entries 85
Mean 0.01034
Std Dev 1.019


asym_atr2_rms vs run
χ² / ndf 1.189e+04 / 84
p0 8525 ± 6.582
10500
10000
9500
9000
8500
8000
7500
7000

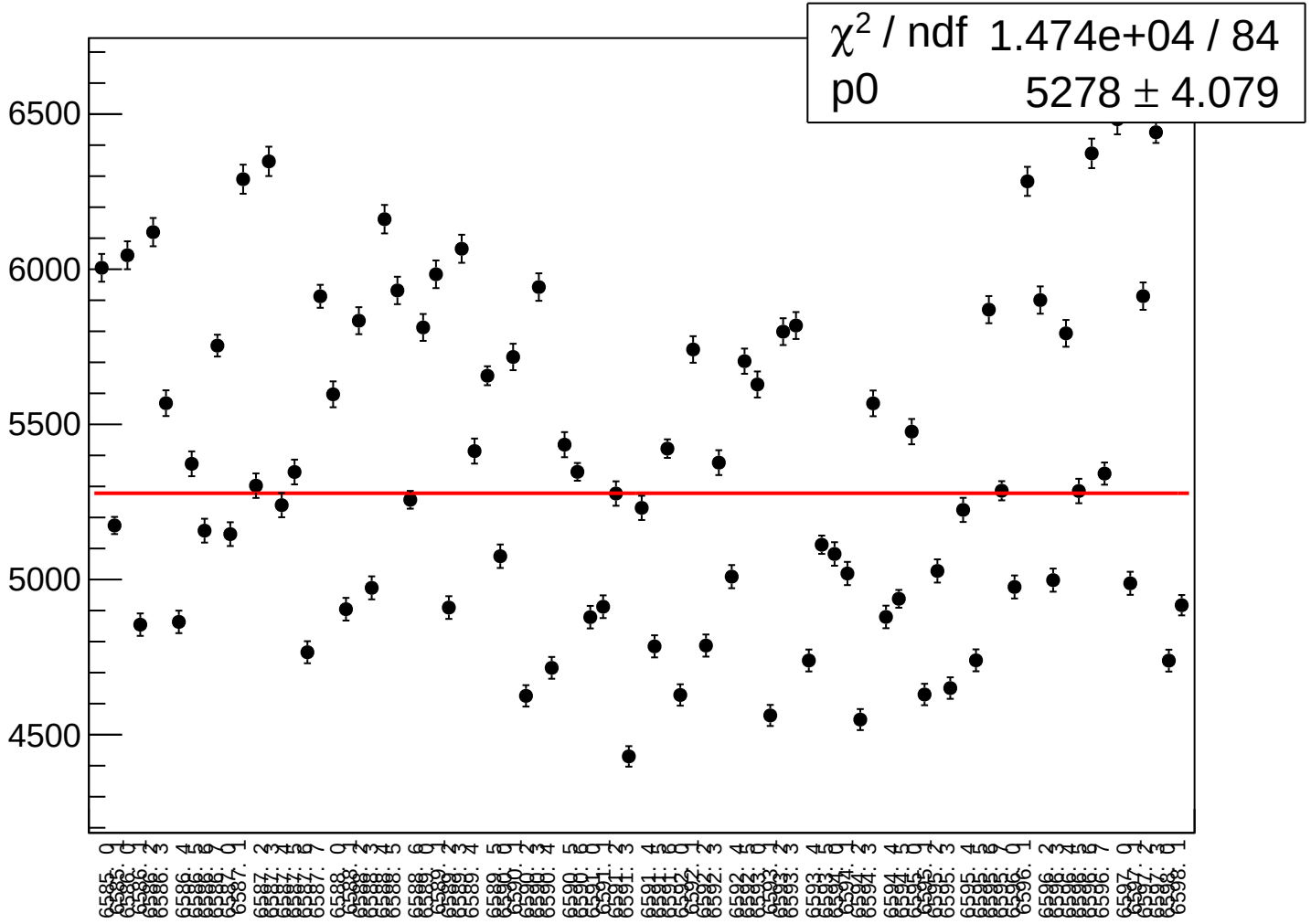

reg_asym_atl_avg_mean vs run
χ² / ndf 86.32 / 84
p0 −1270 ± 2165
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 2822
Std Dev 2769
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.00128
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

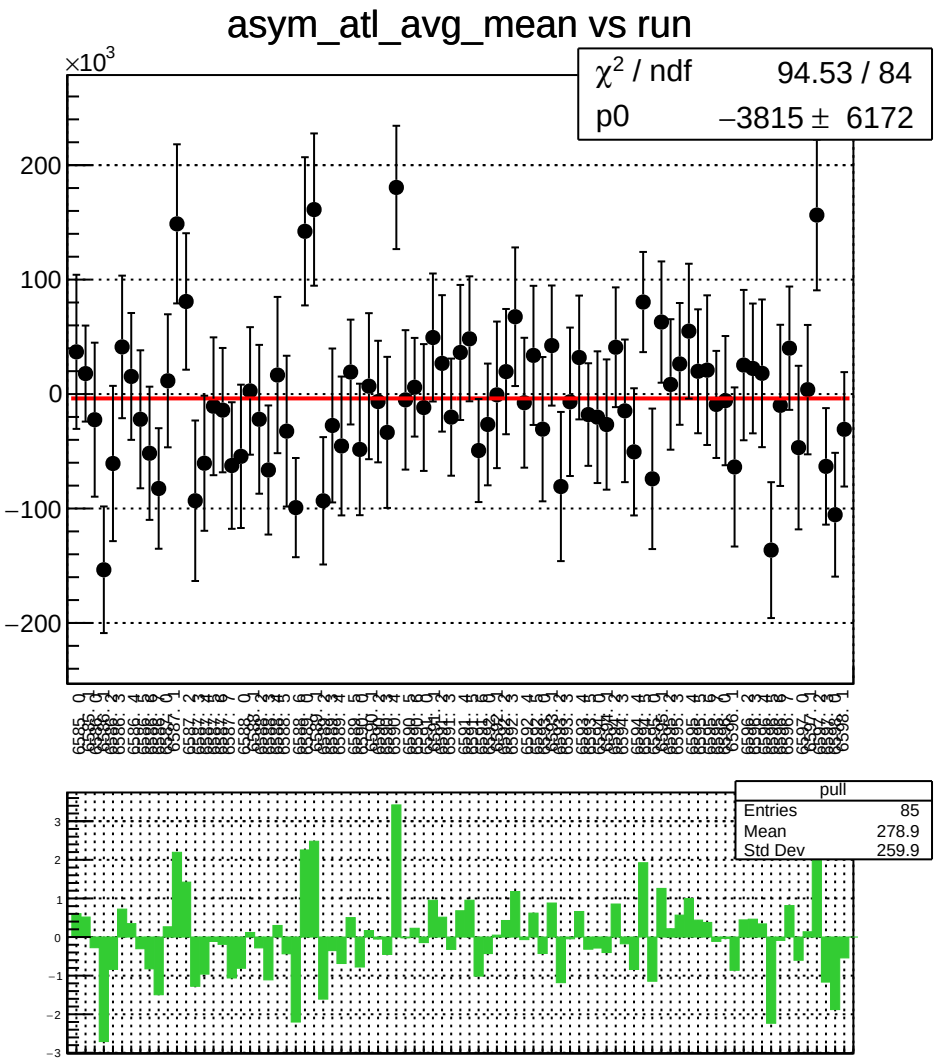
reg_asym_atl_avg_rms vs run

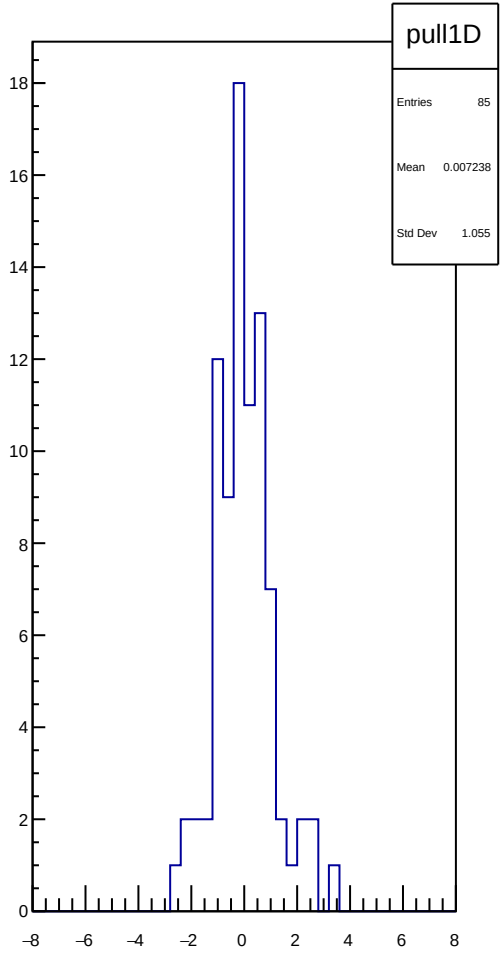



asym_atl_avg_correction_mean vs run
χ^2 / ndf 86.28 / 84
p0 2069 ± 5768
×10^3
pull
Entries 85
Mean 348.3
Std Dev 384.2
pull1D
Entries 85
Mean −0.002171
Std Dev 1.008

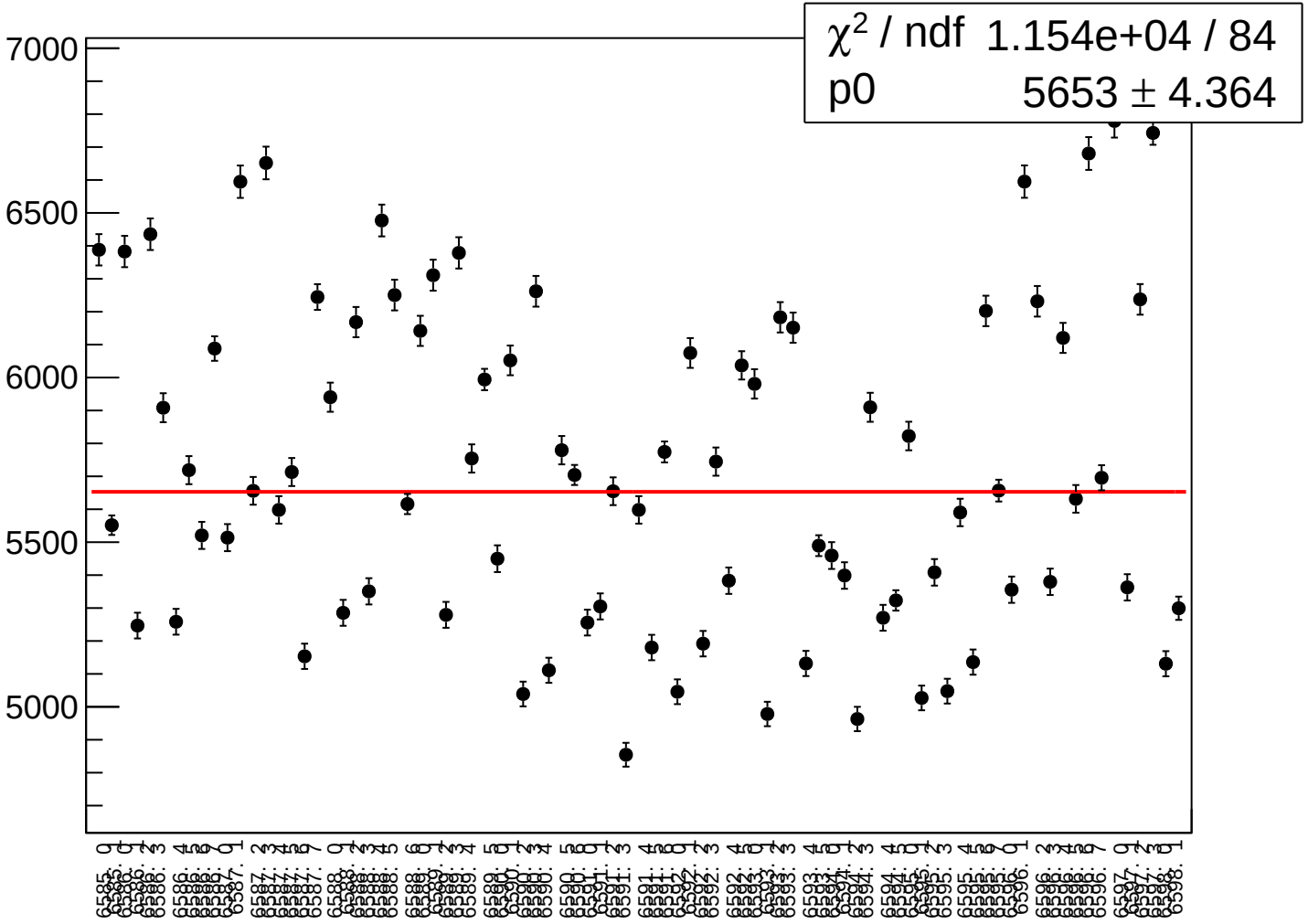
asym_atl_avg_correction_rms vs run

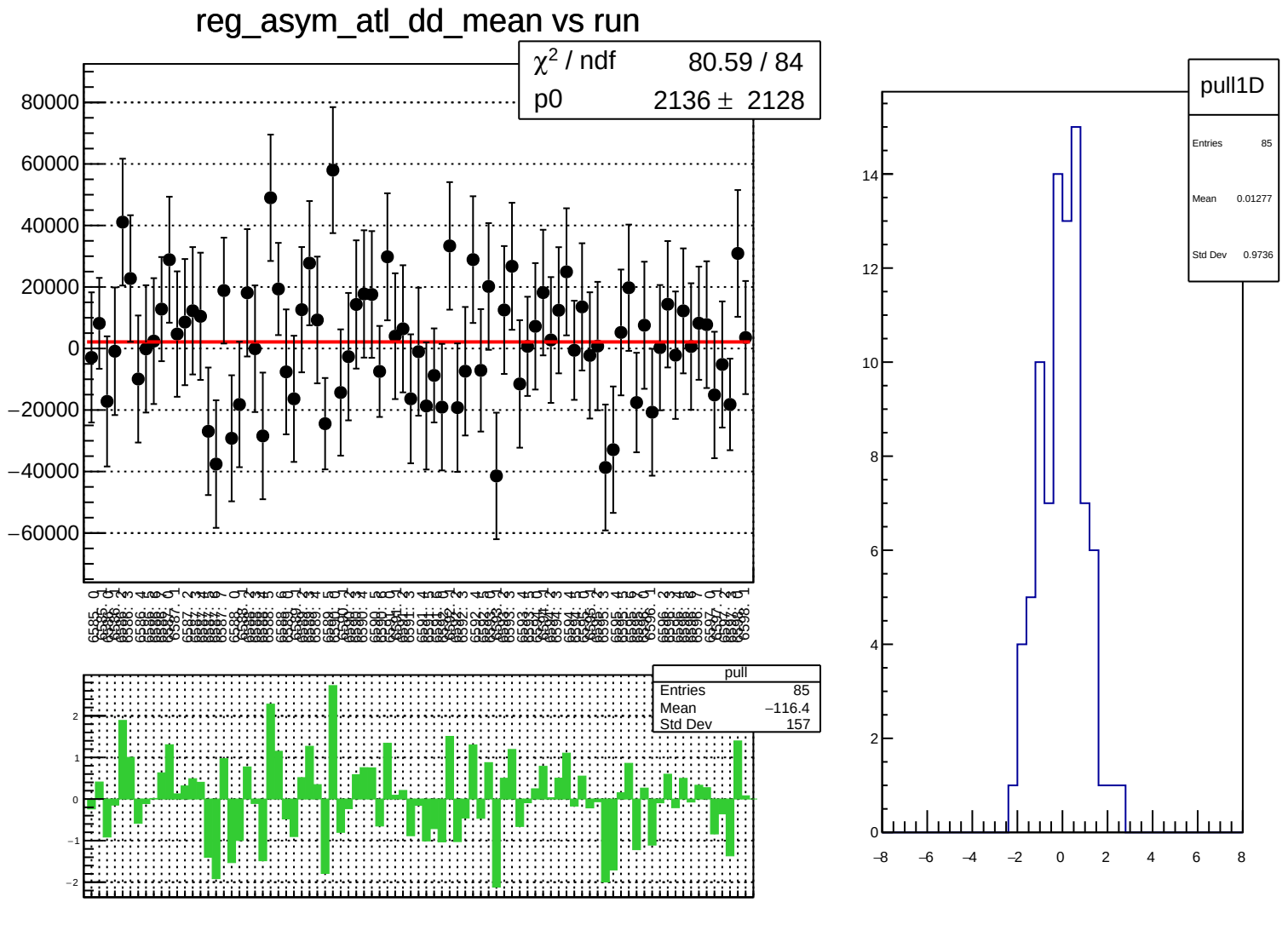



asym_atl_avg_mean vs run
×10^3
χ² / ndf 94.53 / 84
p0 −3815 ± 6172
200
100
0
−100
−200
pull
Entries 85
Mean 278.9
Std Dev 259.9
3
2
1
0
−1
−2
−3

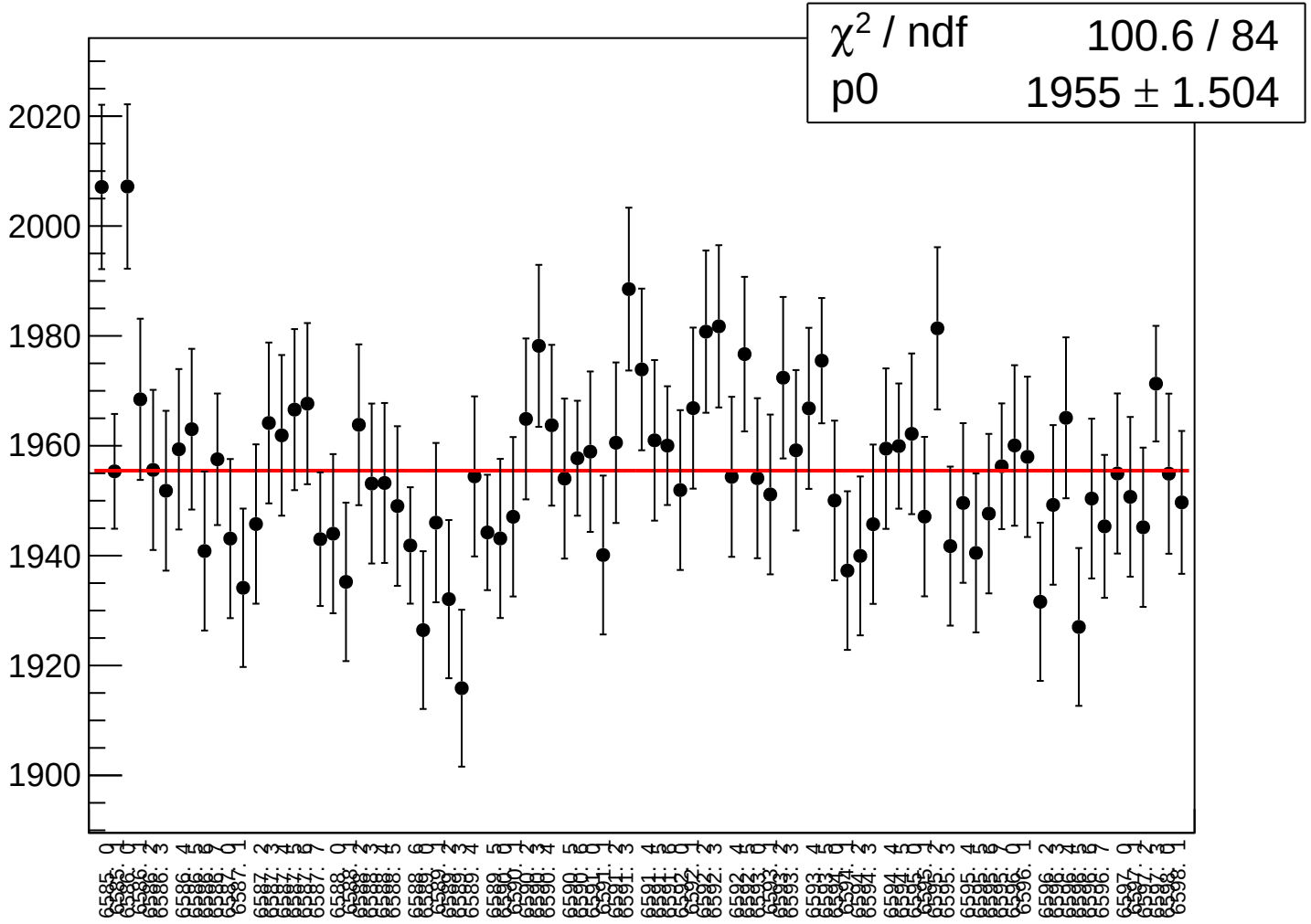

pull1D
Entries 85
Mean 0.007238
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

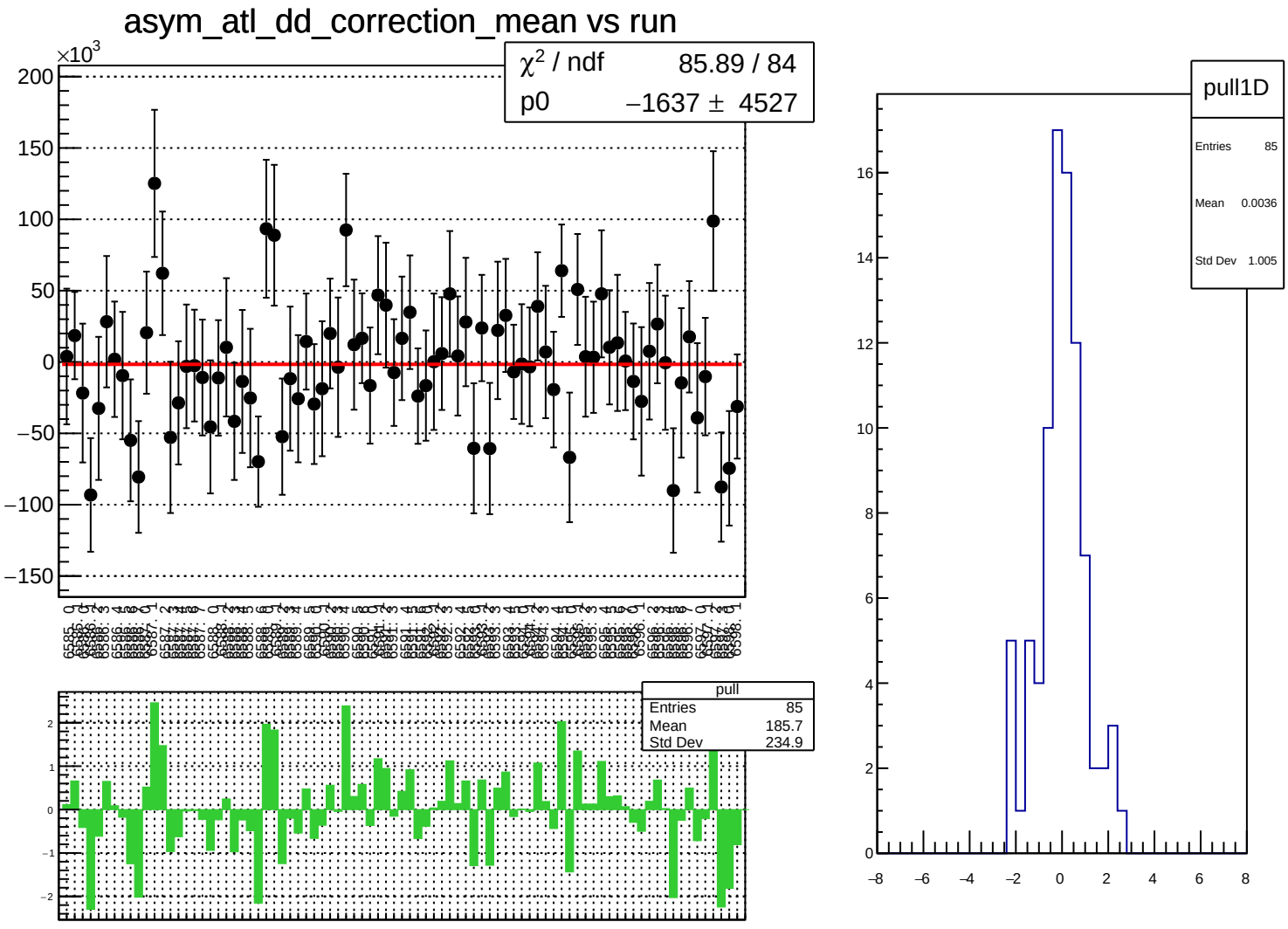
asym_atl_avg_rms vs run



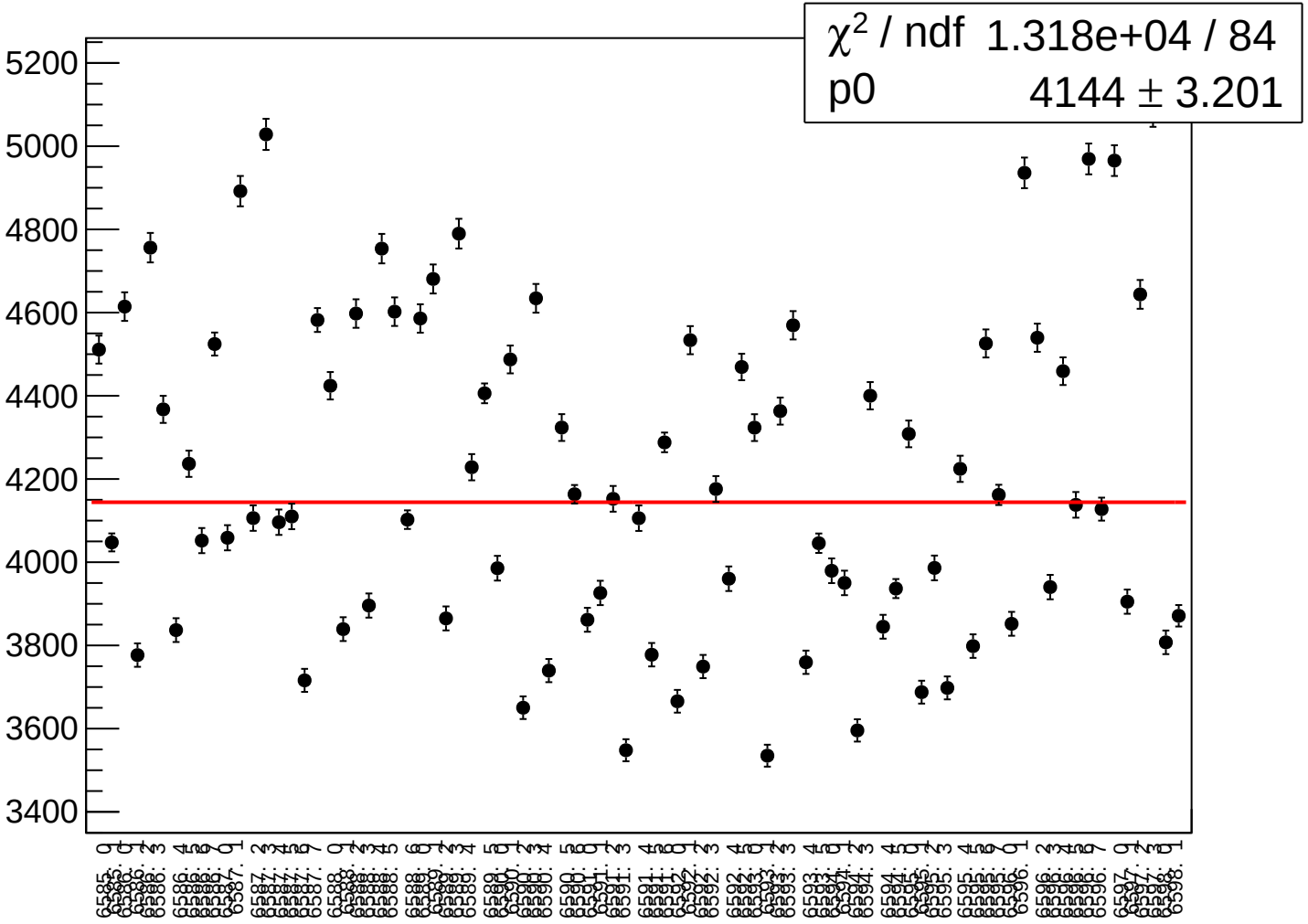

reg_asym_atl_dd_mean vs run
χ² / ndf 80.59 / 84
p0 2136 ± 2128
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −116.4
Std Dev 157
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01277
Std Dev 0.9736
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

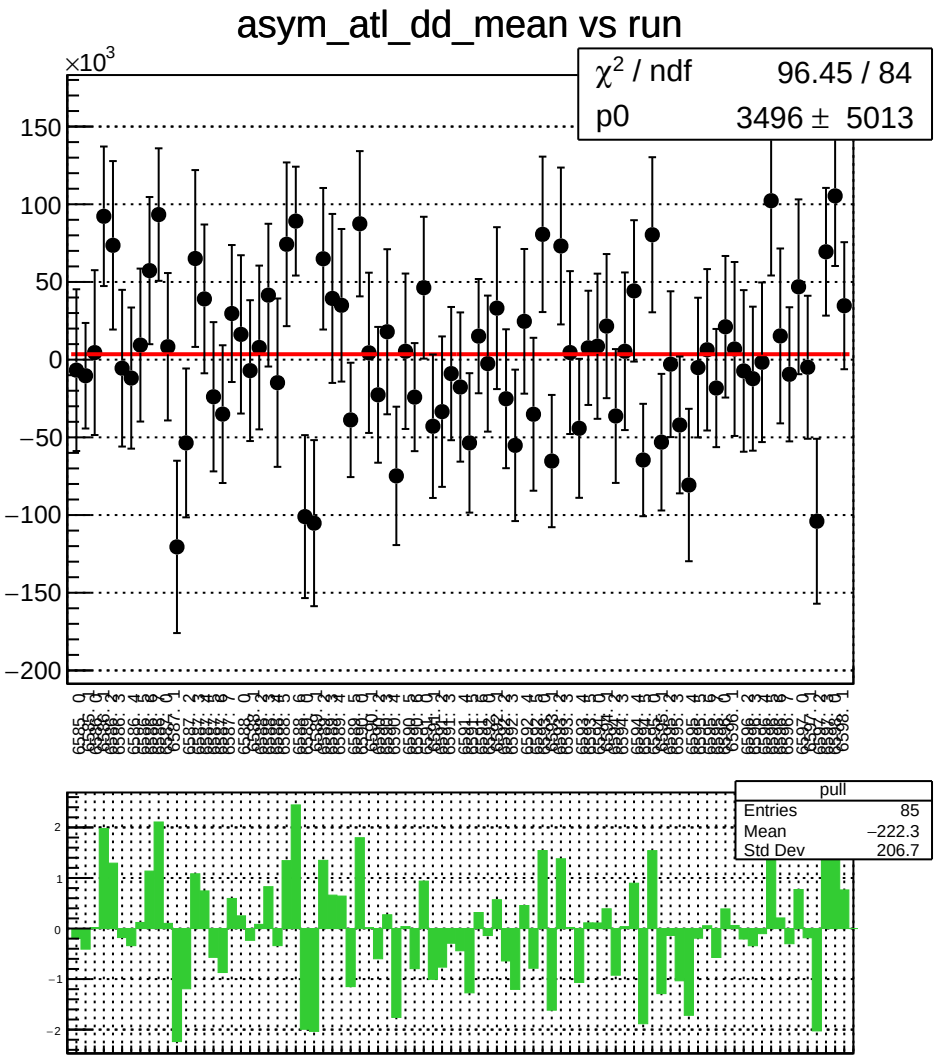
reg_asym_atl_dd_rms vs run

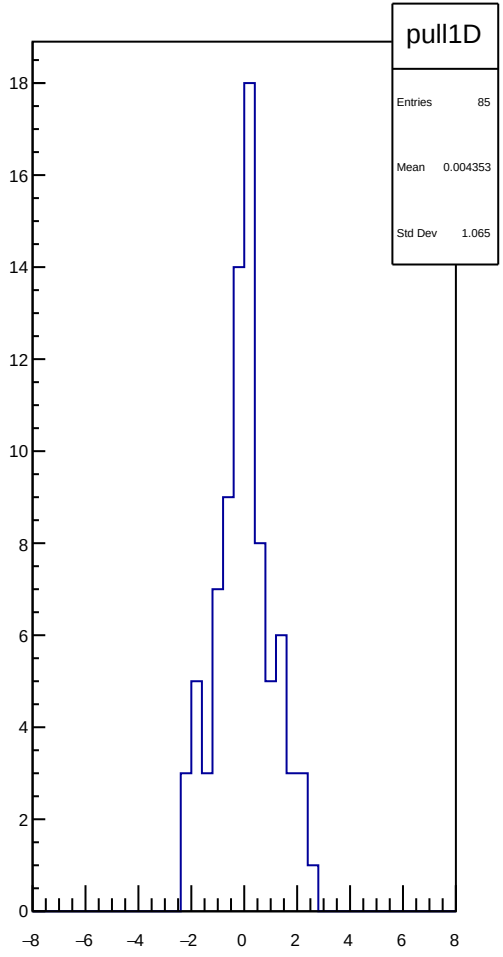



asym_atl_dd_correction_mean vs run
×10^3
χ^2 / ndf 85.89 / 84
p0 −1637 ± 4527
pull
Entries 85
Mean 185.7
Std Dev 234.9
pull1D
Entries 85
Mean 0.0036
Std Dev 1.005

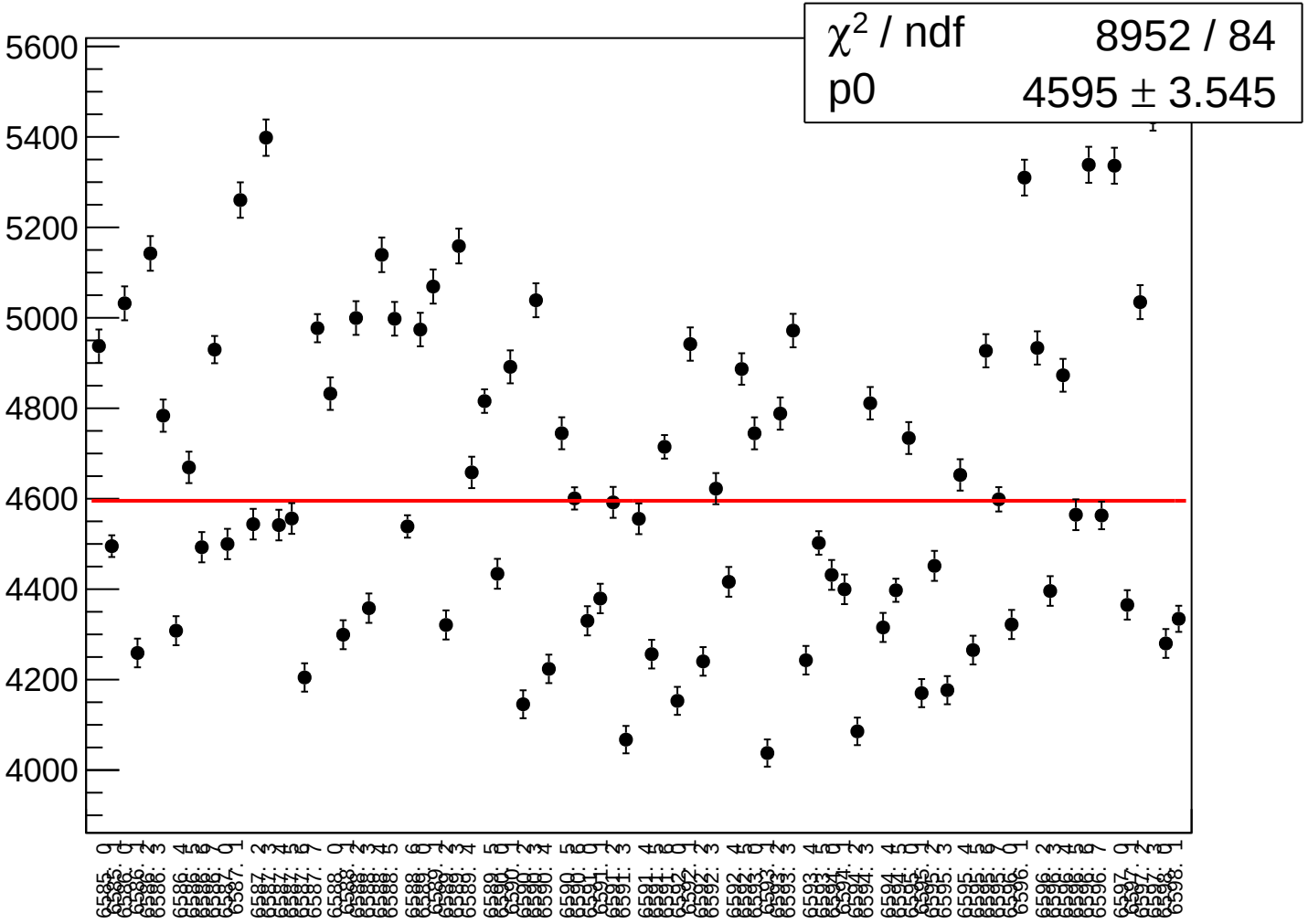
asym_atl_dd_correction_rms vs run

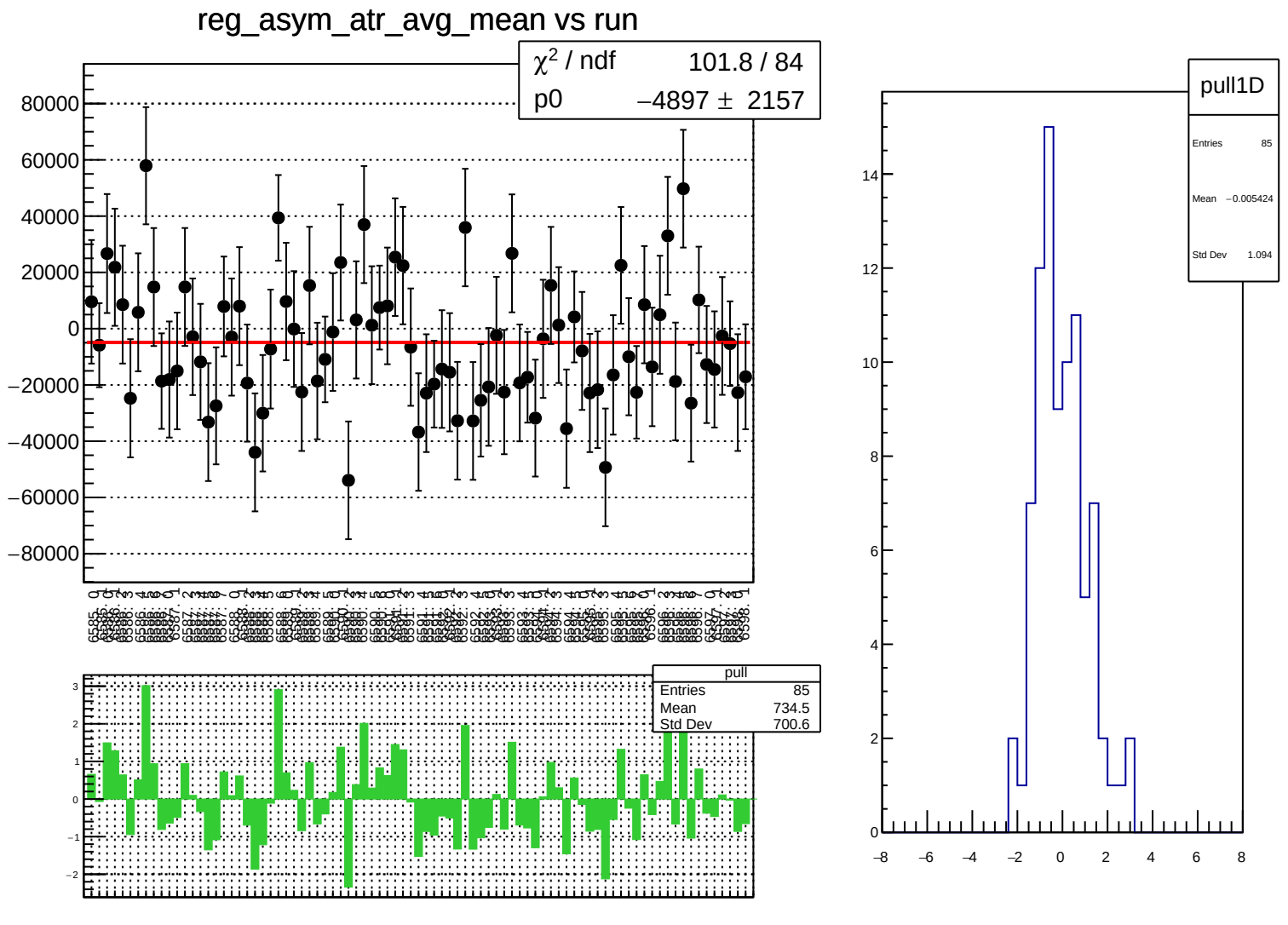


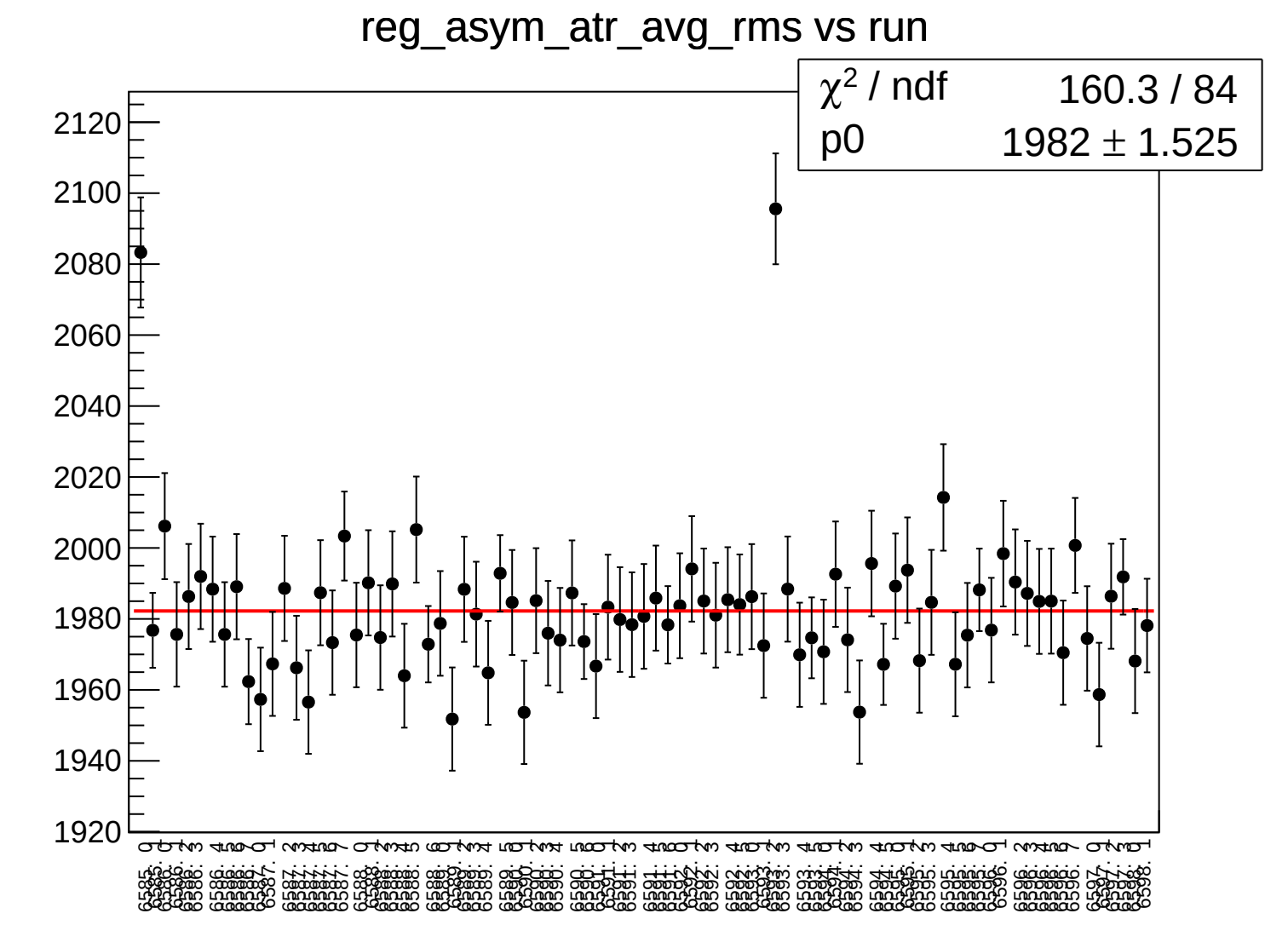

asym_atl_dd_mean vs run
×10^3
χ² / ndf 96.45 / 84
p0 3496 ± 5013
pull
Entries 85
Mean −222.3
Std Dev 206.7

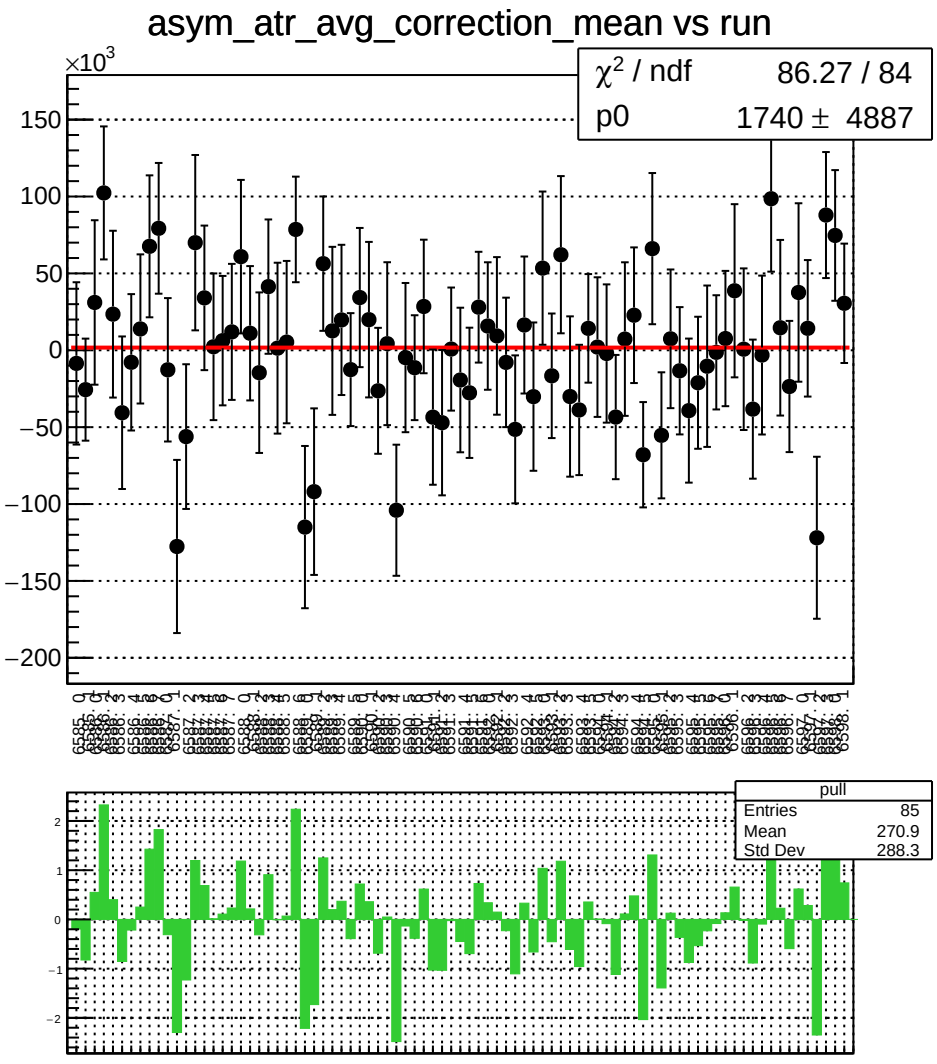

pull1D
Entries 85
Mean 0.004353
Std Dev 1.065

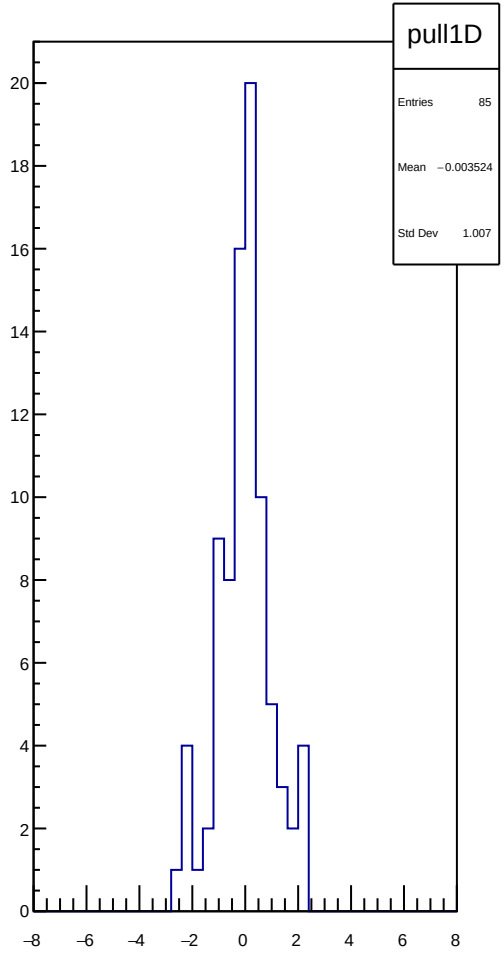
asym_atl_dd_rms vs run



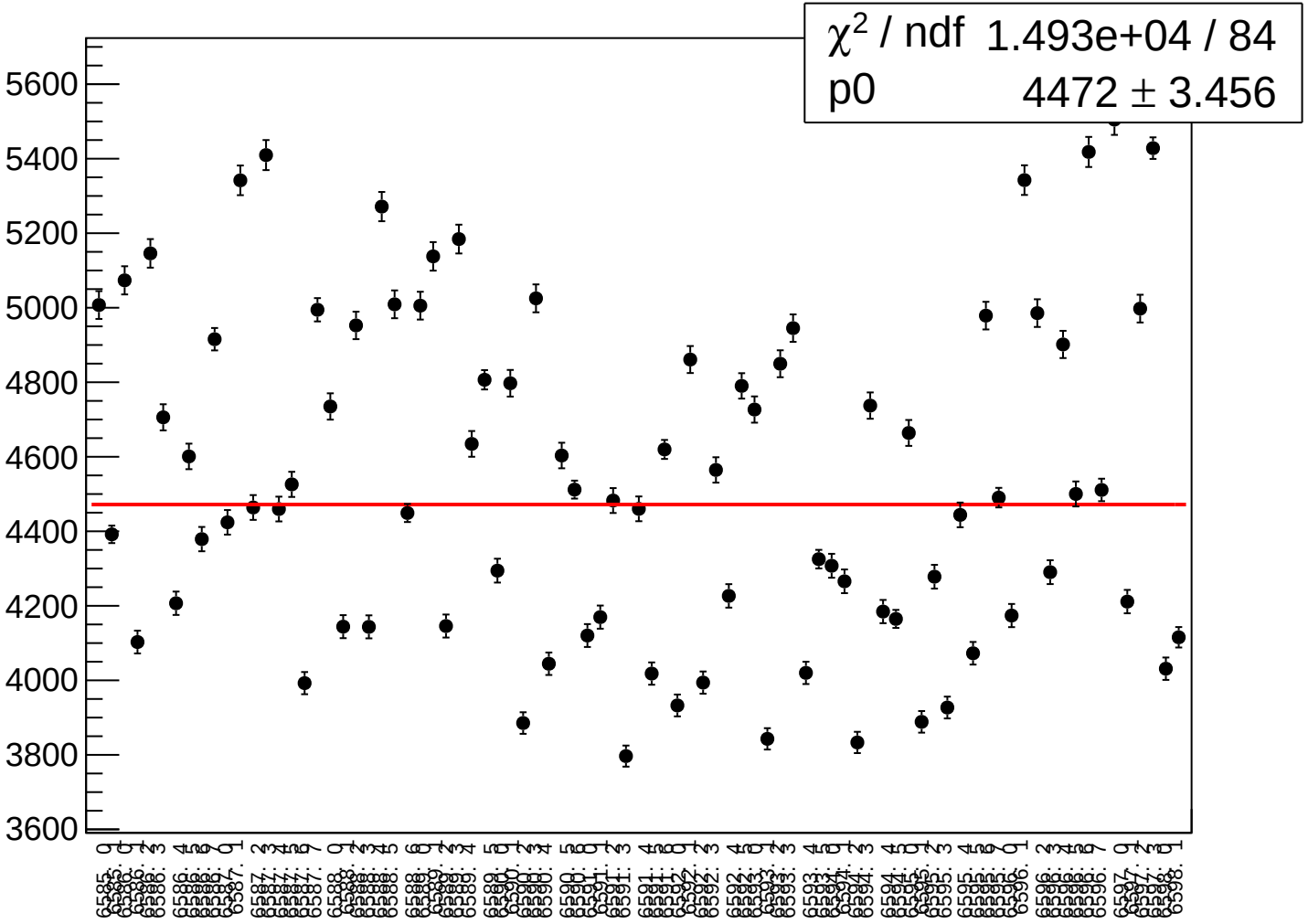

reg_asym_atr_avg_mean vs run
χ² / ndf 101.8 / 84
p0 −4897 ± 2157
pull
Entries 85
Mean 734.5
Std Dev 700.6
pull1D
Entries 85
Mean −0.005424
Std Dev 1.094

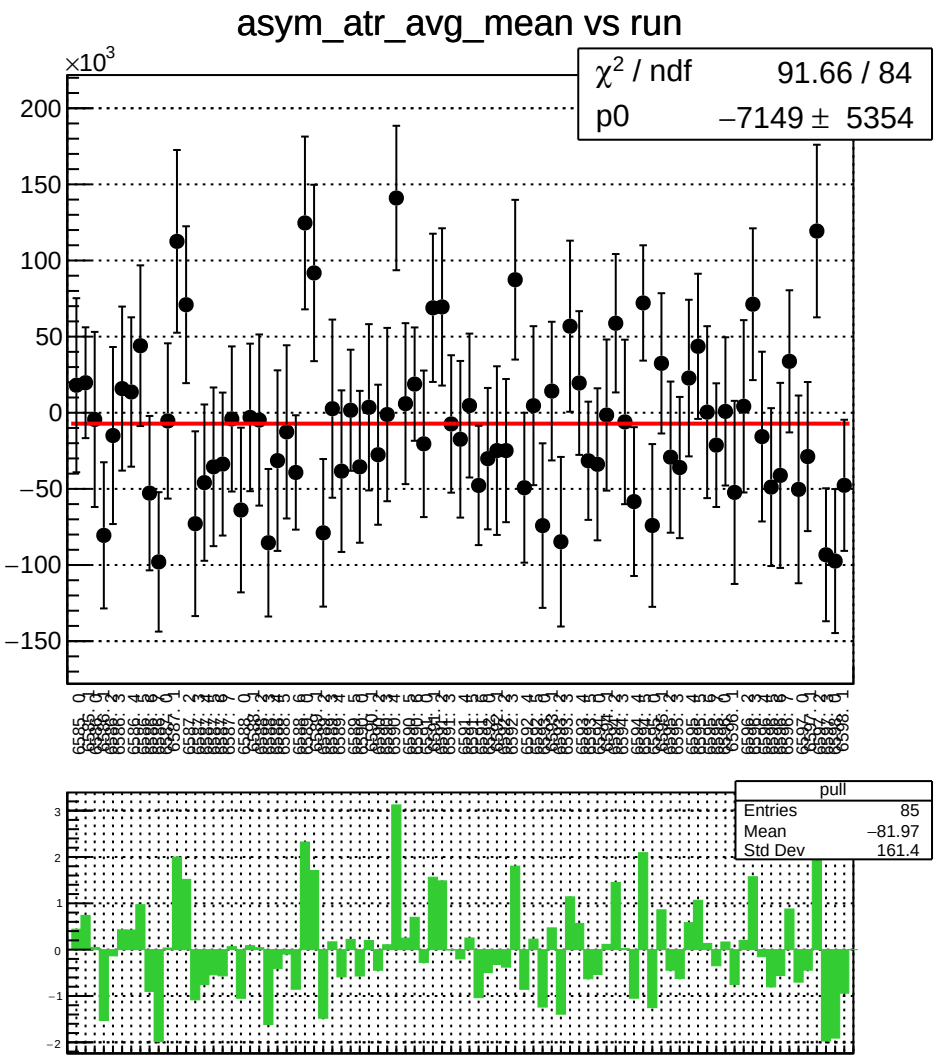

reg_asym_atr_avg_rms vs run
χ2 / ndf 160.3 / 84
p0 1982 ± 1.525
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

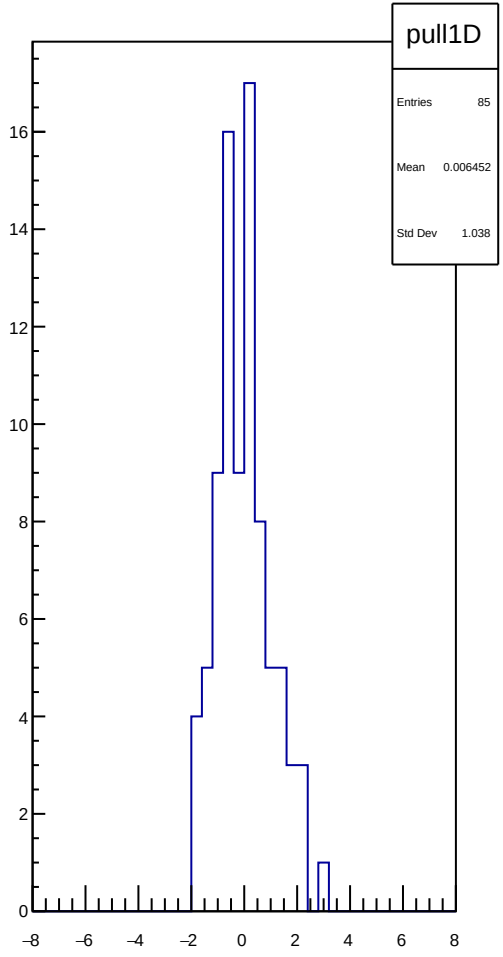

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 86.27 / 84
p0 1740 ± 4887
pull
Entries 85
Mean 270.9
Std Dev 288.3


pull1D
Entries 85
Mean −0.003524
Std Dev 1.007

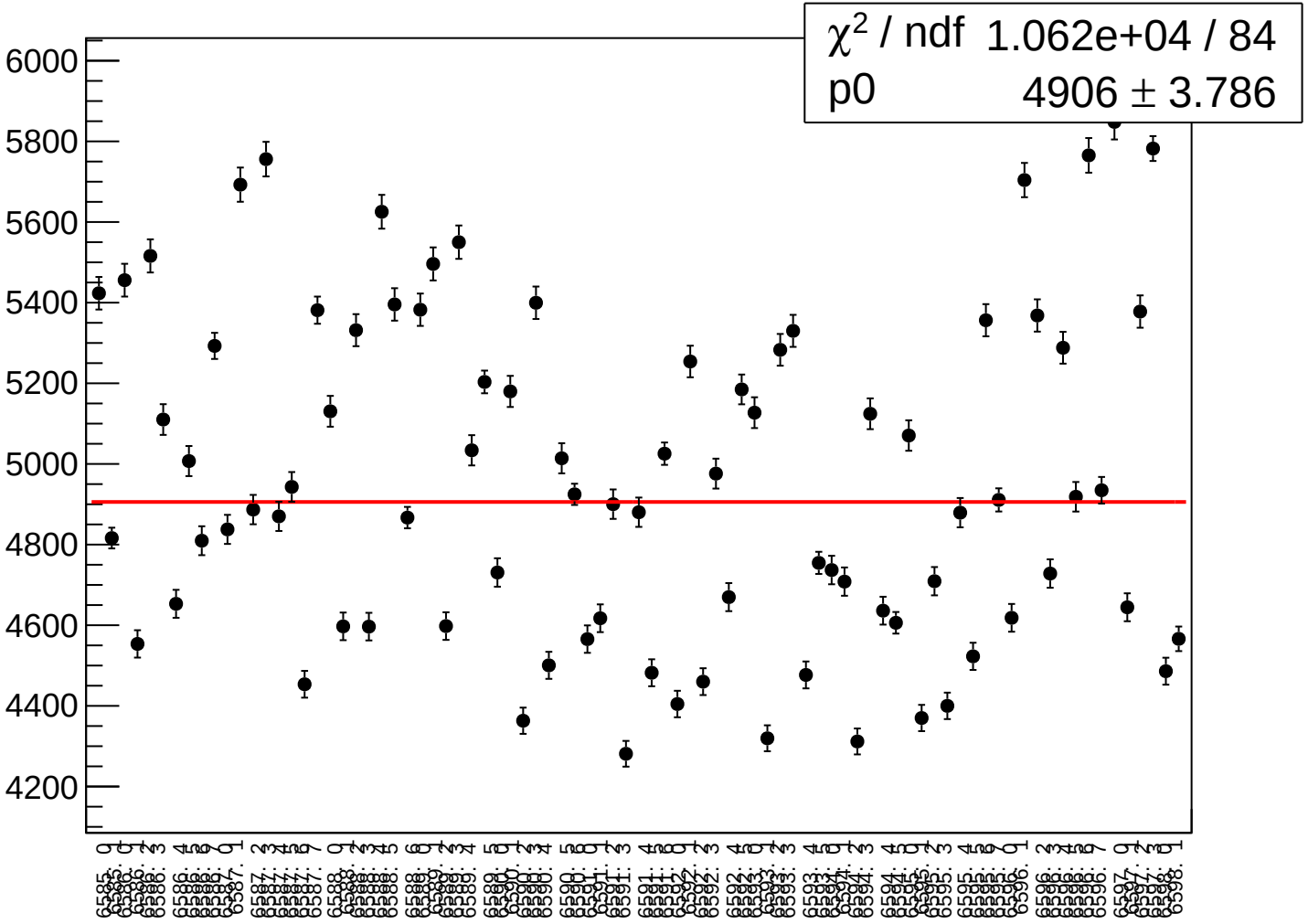
asym_atr_avg_correction_rms vs run

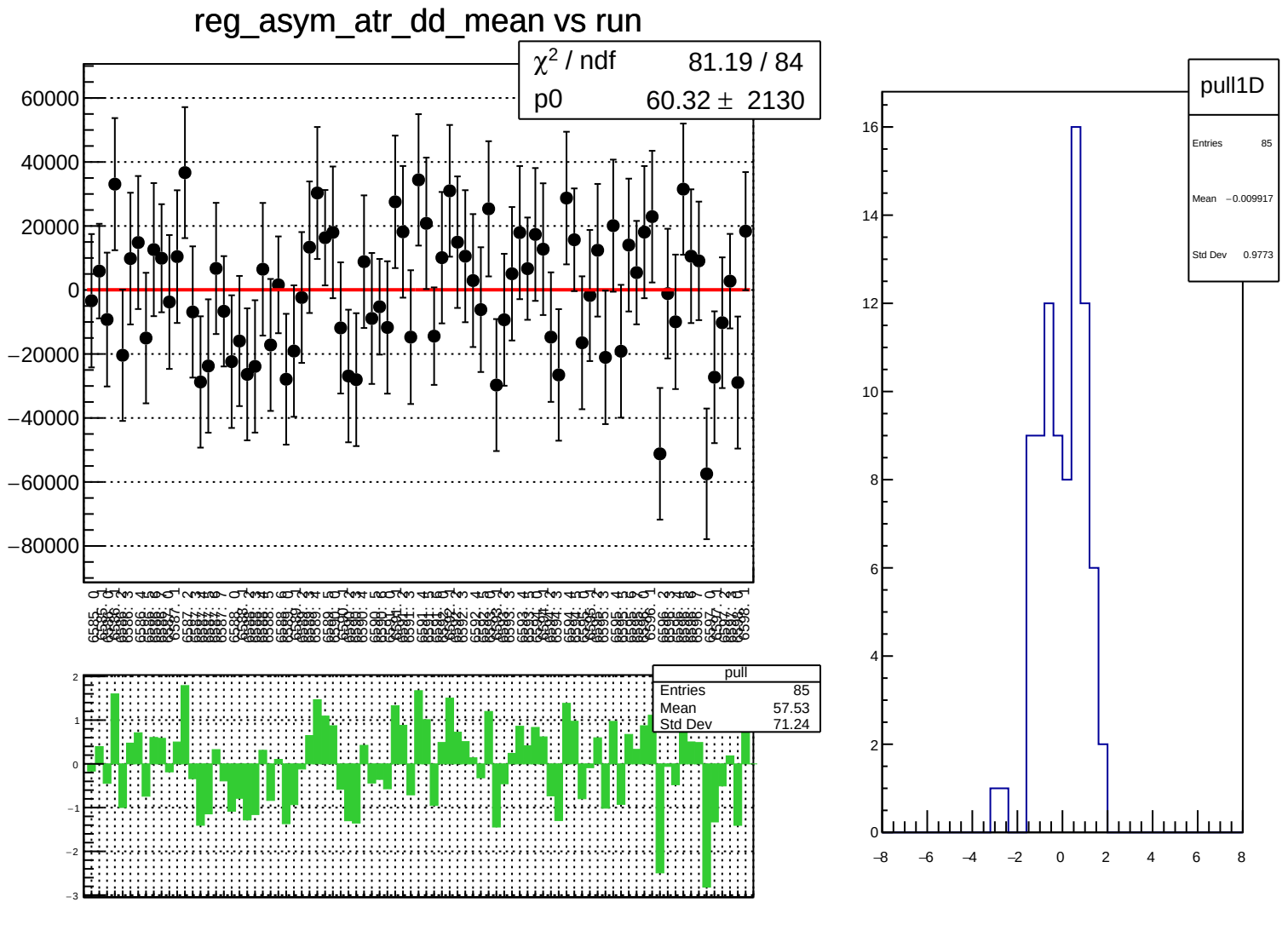



asym_atr_avg_mean vs run
×10^3
χ² / ndf 91.66 / 84
p0 −7149 ± 5354
pull
Entries 85
Mean −81.97
Std Dev 161.4

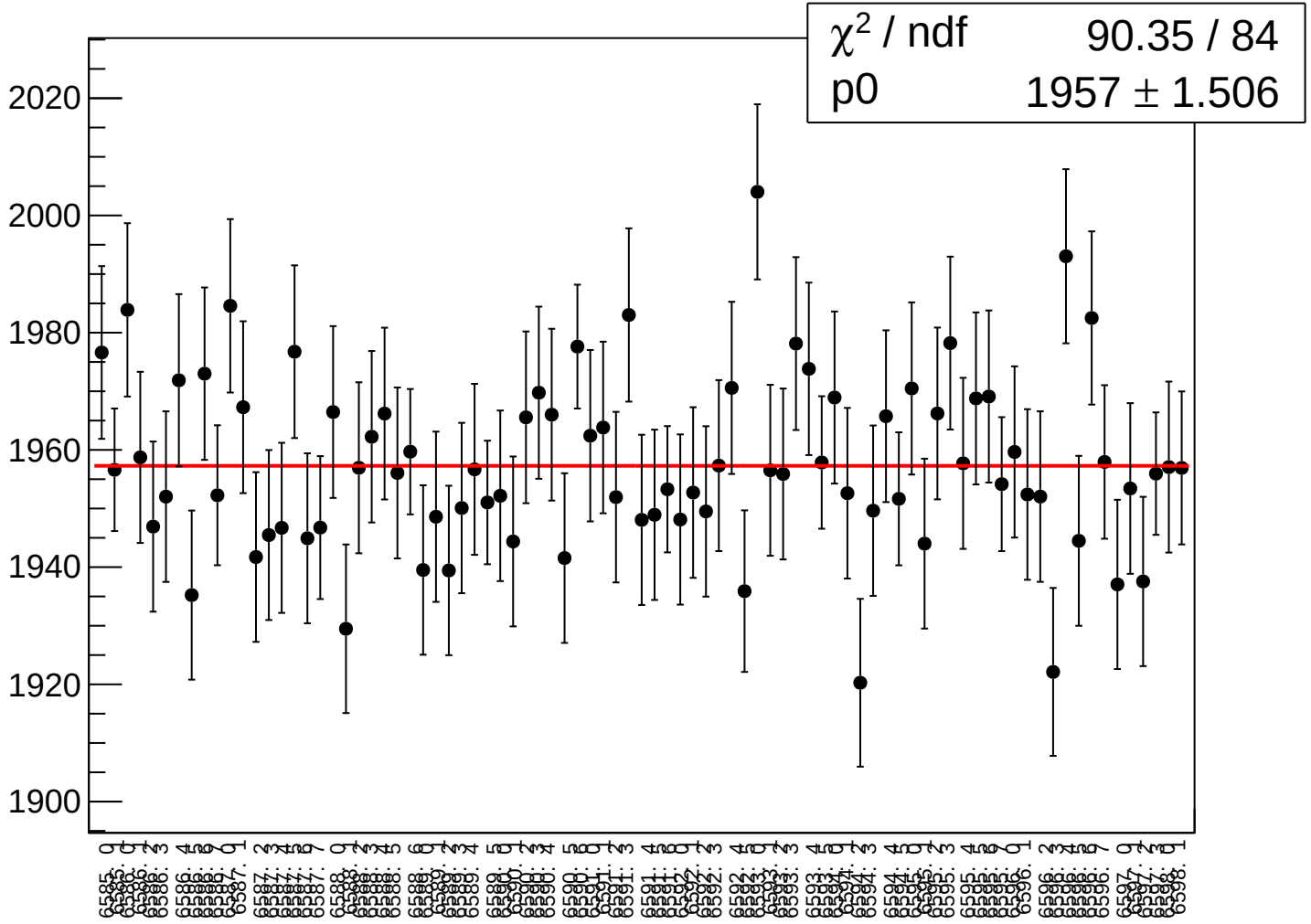

pull1D
Entries 85
Mean 0.006452
Std Dev 1.038

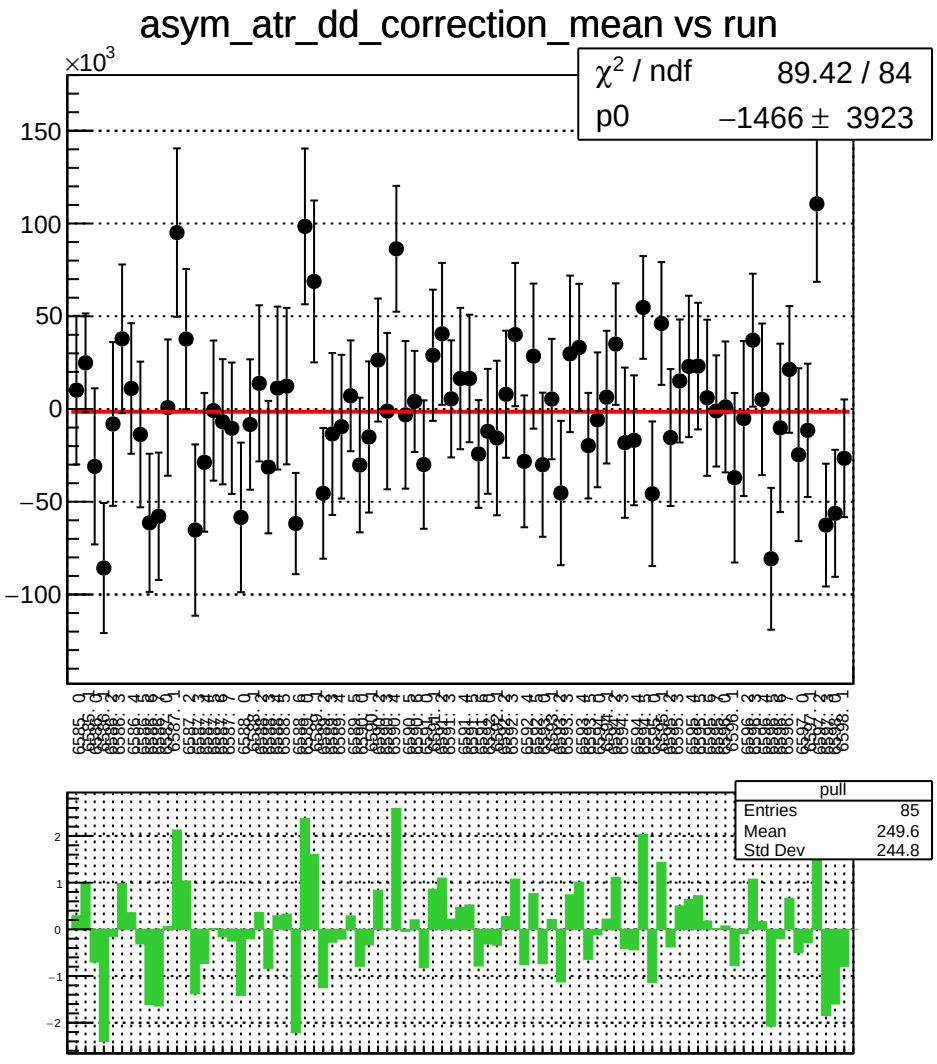
asym_atr_avg_rms vs run

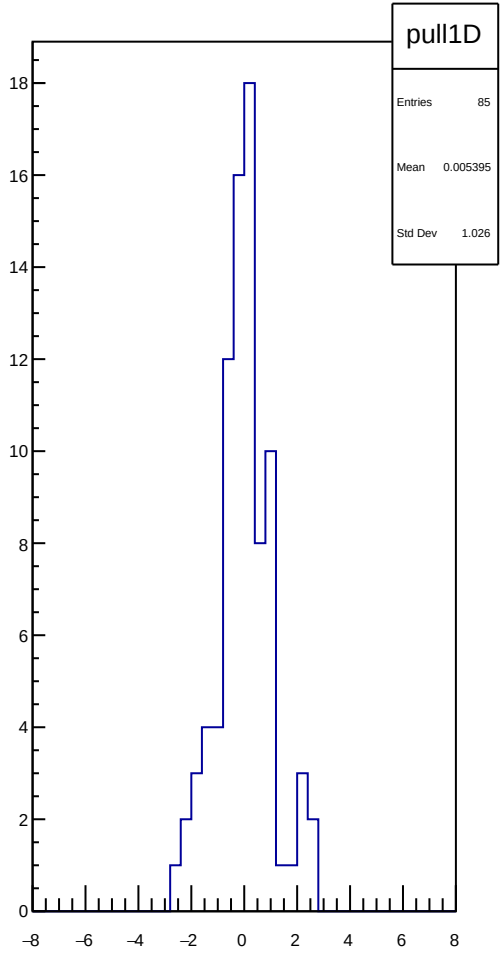


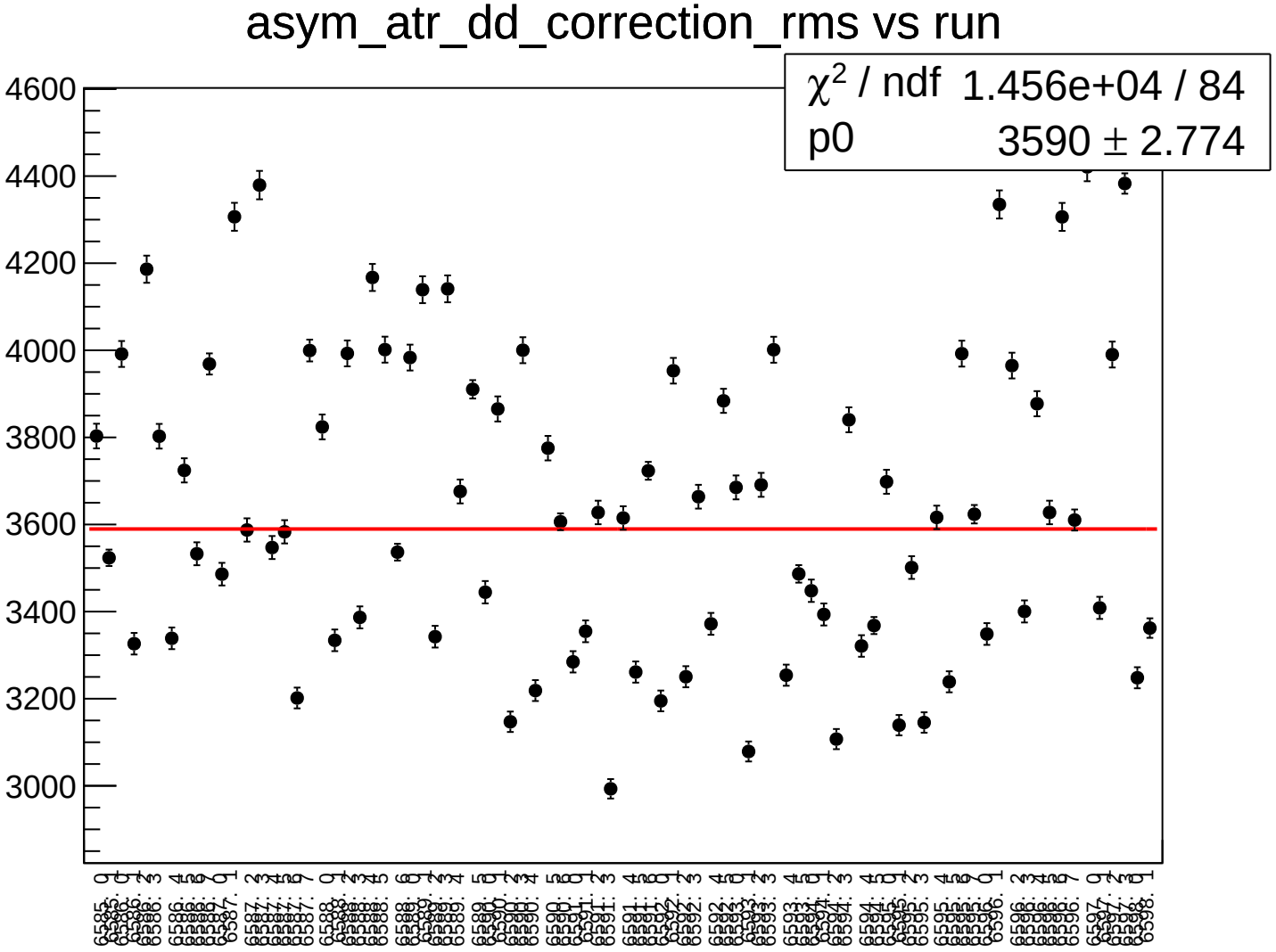

reg_asym_atr_dd_mean vs run
χ² / ndf 81.19 / 84
p0 60.32 ± 2130
pull
Entries 85
Mean 57.53
Std Dev 71.24
pull1D
Entries 85
Mean −0.009917
Std Dev 0.9773

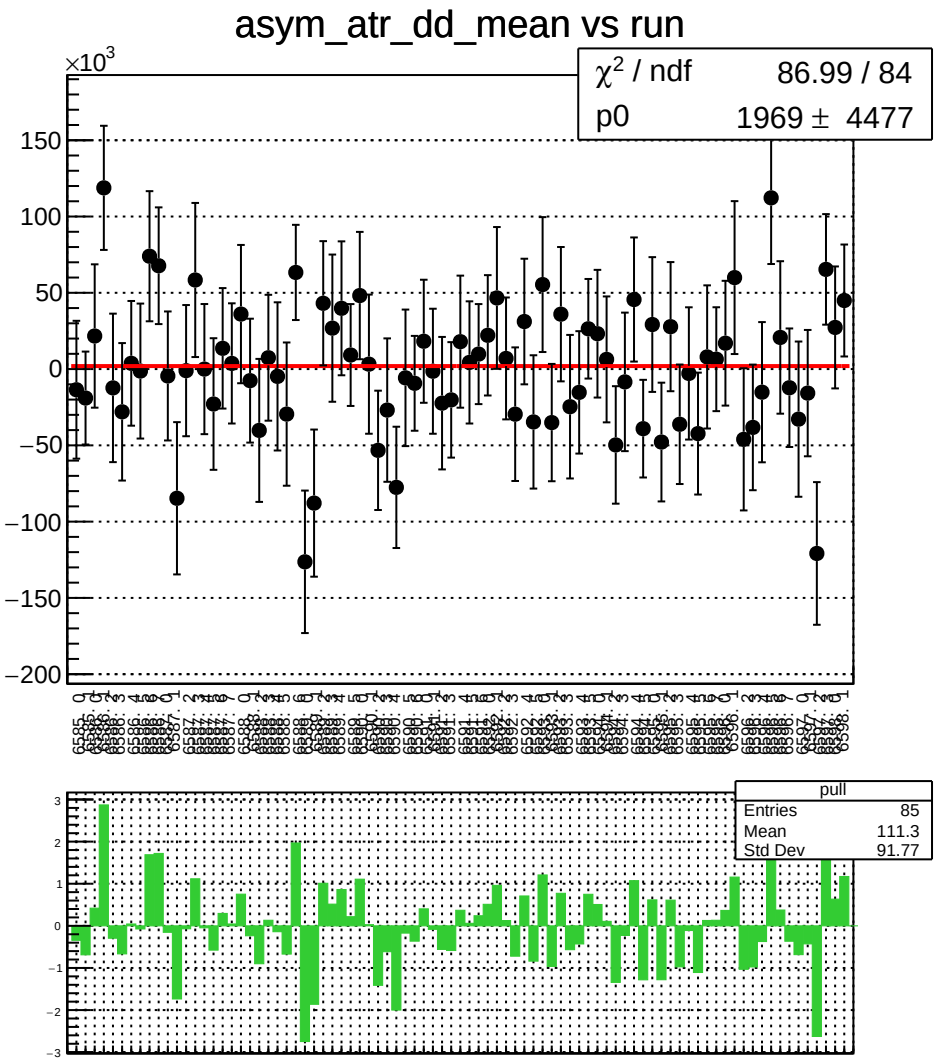
reg_asym_atr_dd_rms vs run

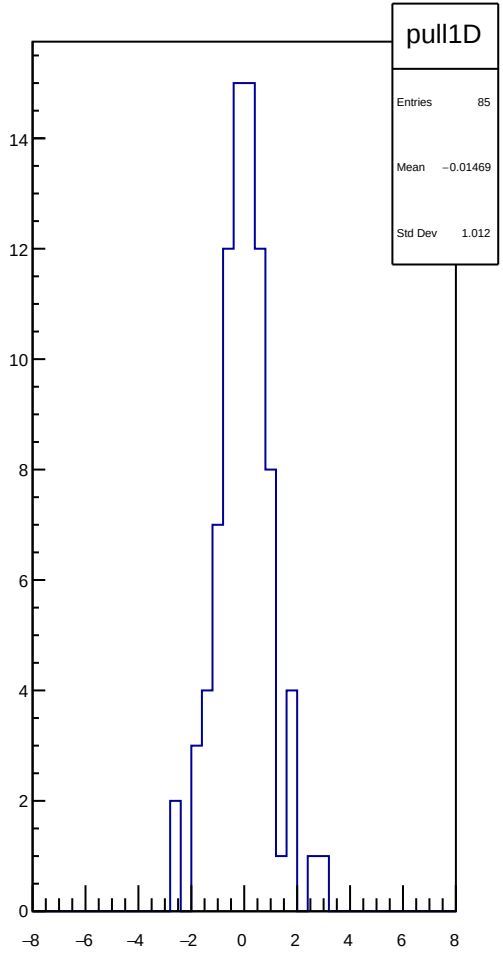



asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 89.42 / 84
p0 −1466 ± 3923
pull
Entries 85
Mean 249.6
Std Dev 244.8

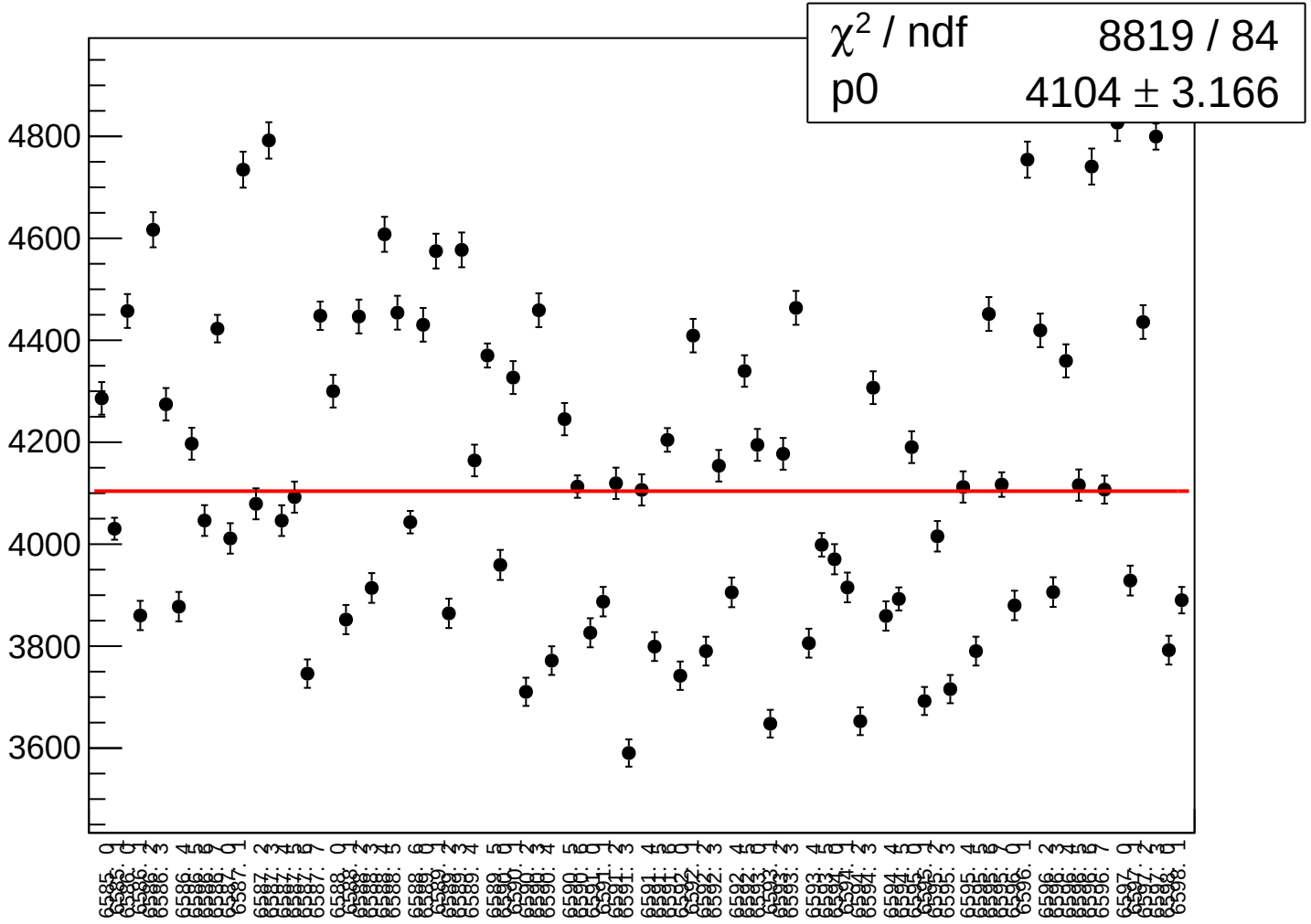

pull1D
Entries 85
Mean 0.005395
Std Dev 1.026

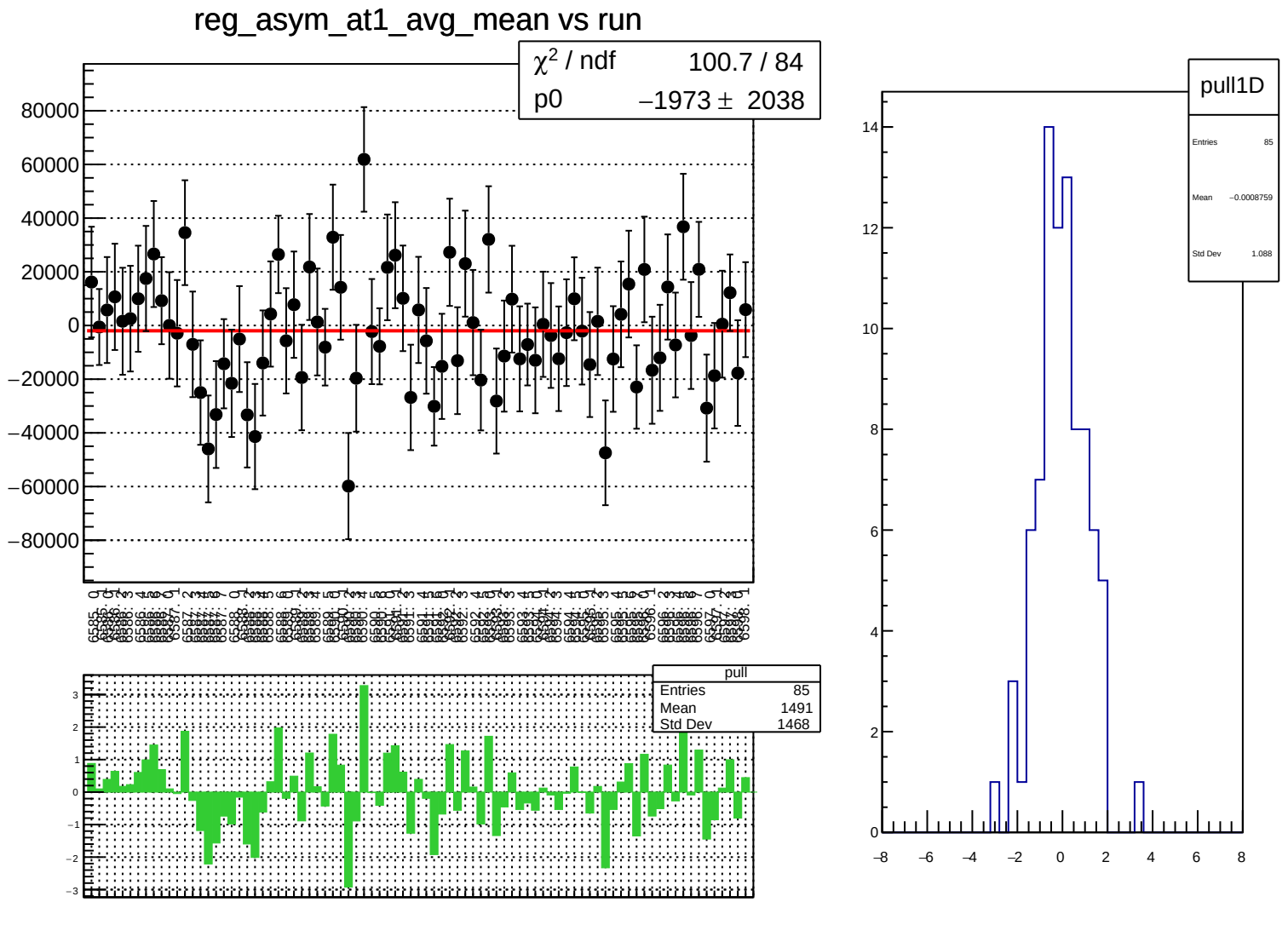

asym_atr_dd_correction_rms vs run
χ² / ndf 1.456e+04 / 84
p0 3590 ± 2.774
4600
4400
4200
4000
3800
3600
3400
3200
3000


asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 86.99 / 84
p0 1969 ± 4477
pull
Entries 85
Mean 111.3
Std Dev 91.77

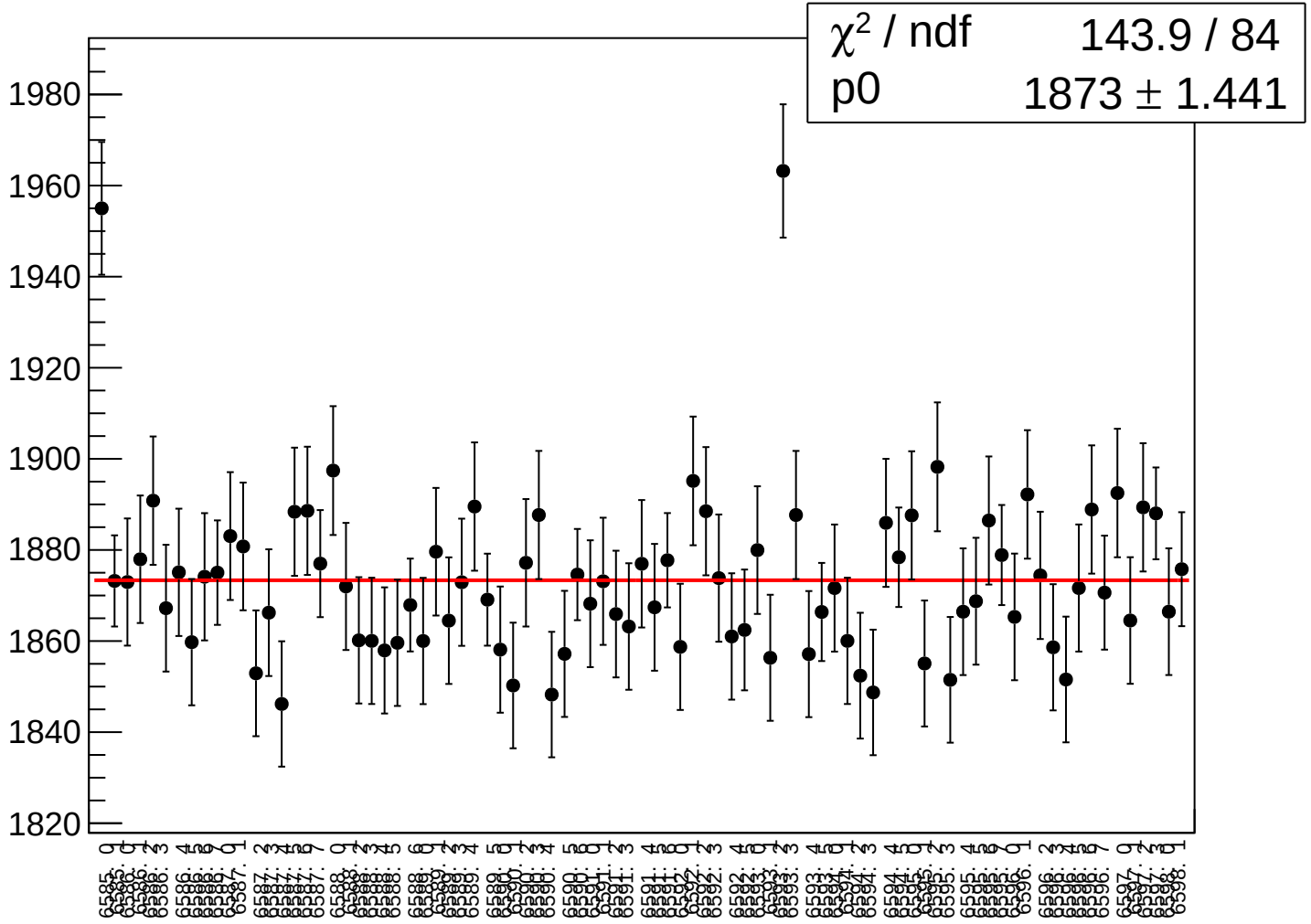

pull1D
Entries 85
Mean −0.01469
Std Dev 1.012

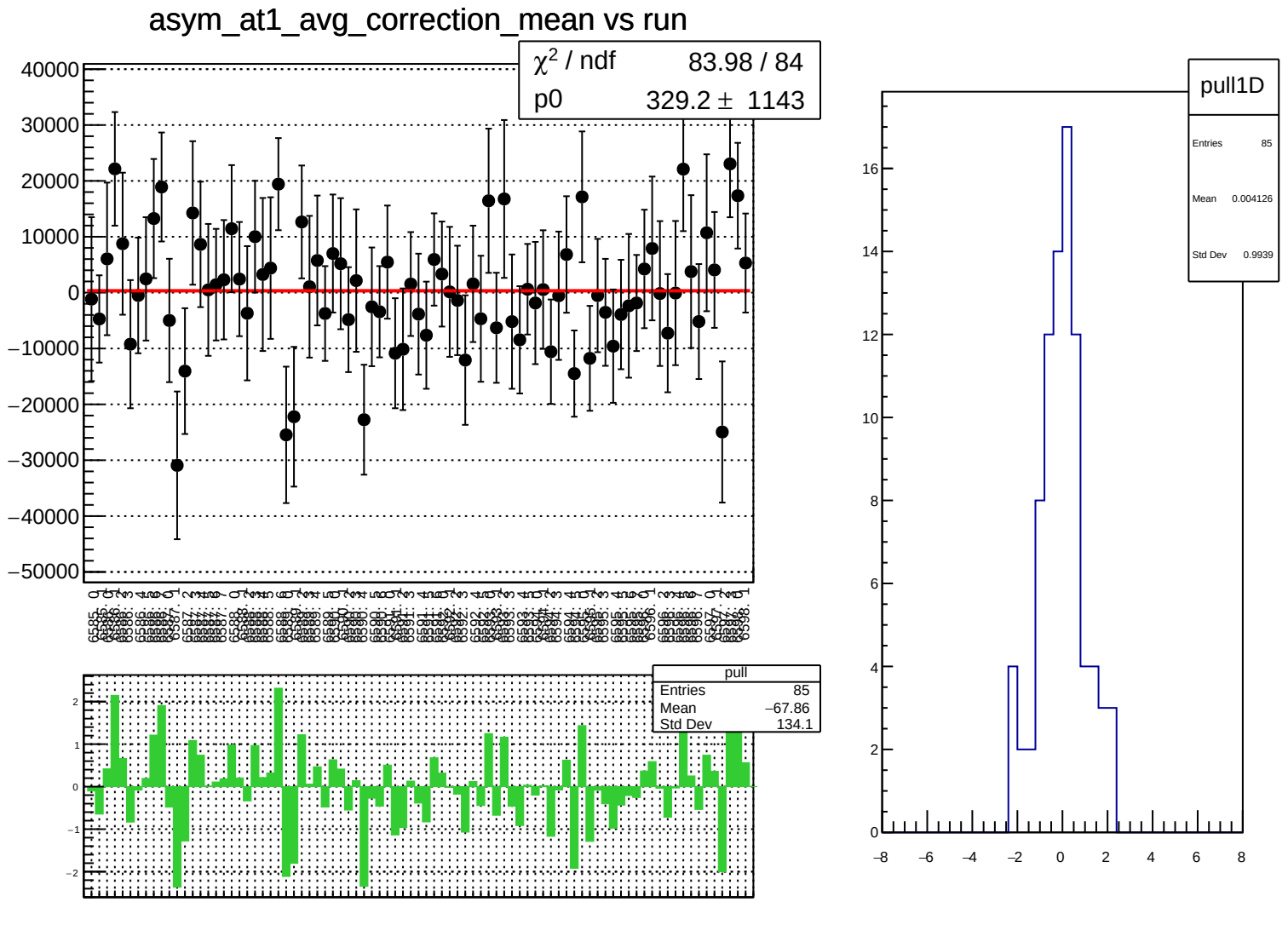
asym_atr_dd_rms vs run



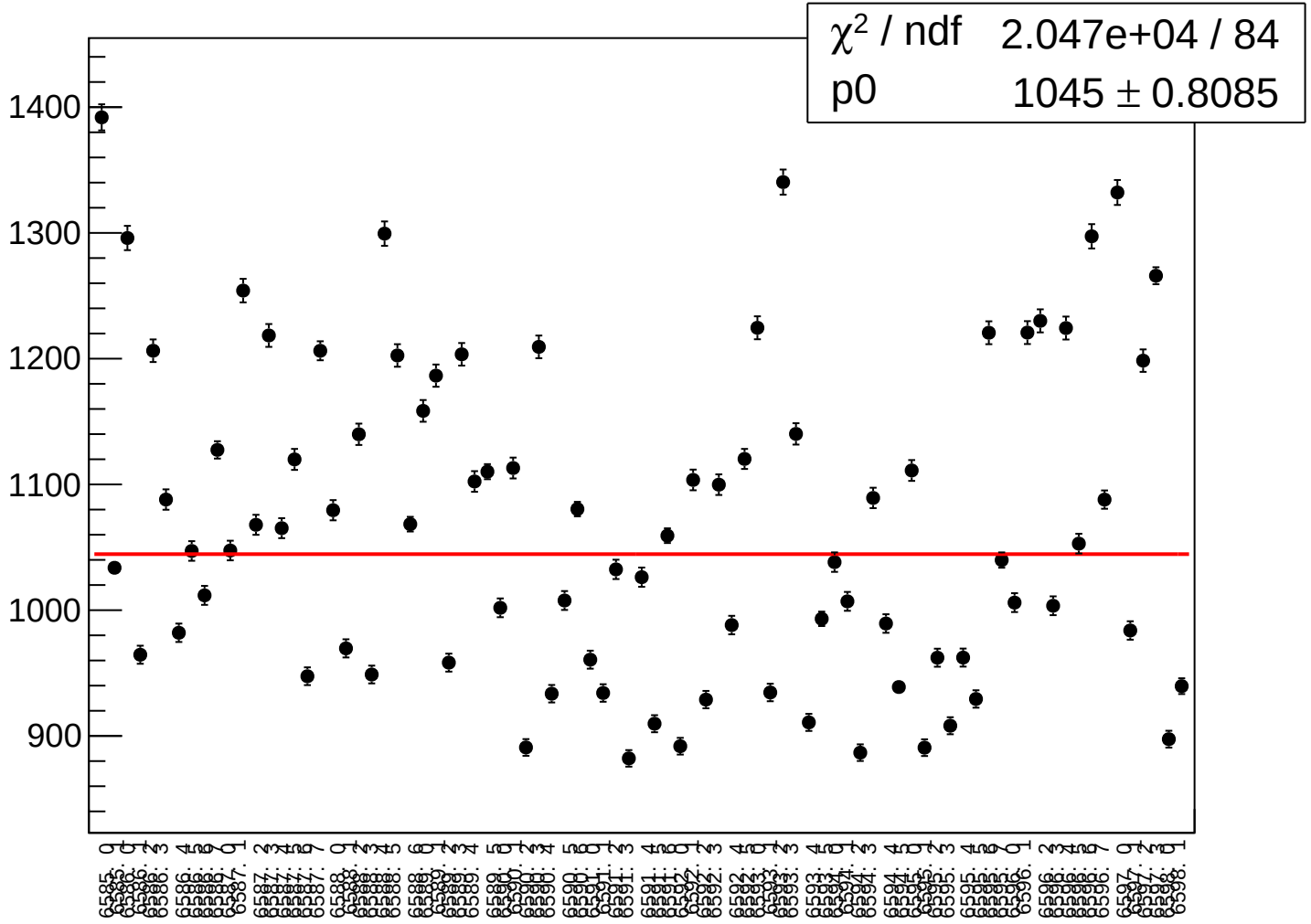

reg_asym_at1_avg_mean vs run
χ² / ndf 100.7 / 84
p0 −1973 ± 2038
pull
Entries 85
Mean 1491
Std Dev 1468
pull1D
Entries 85
Mean −0.0008759
Std Dev 1.088

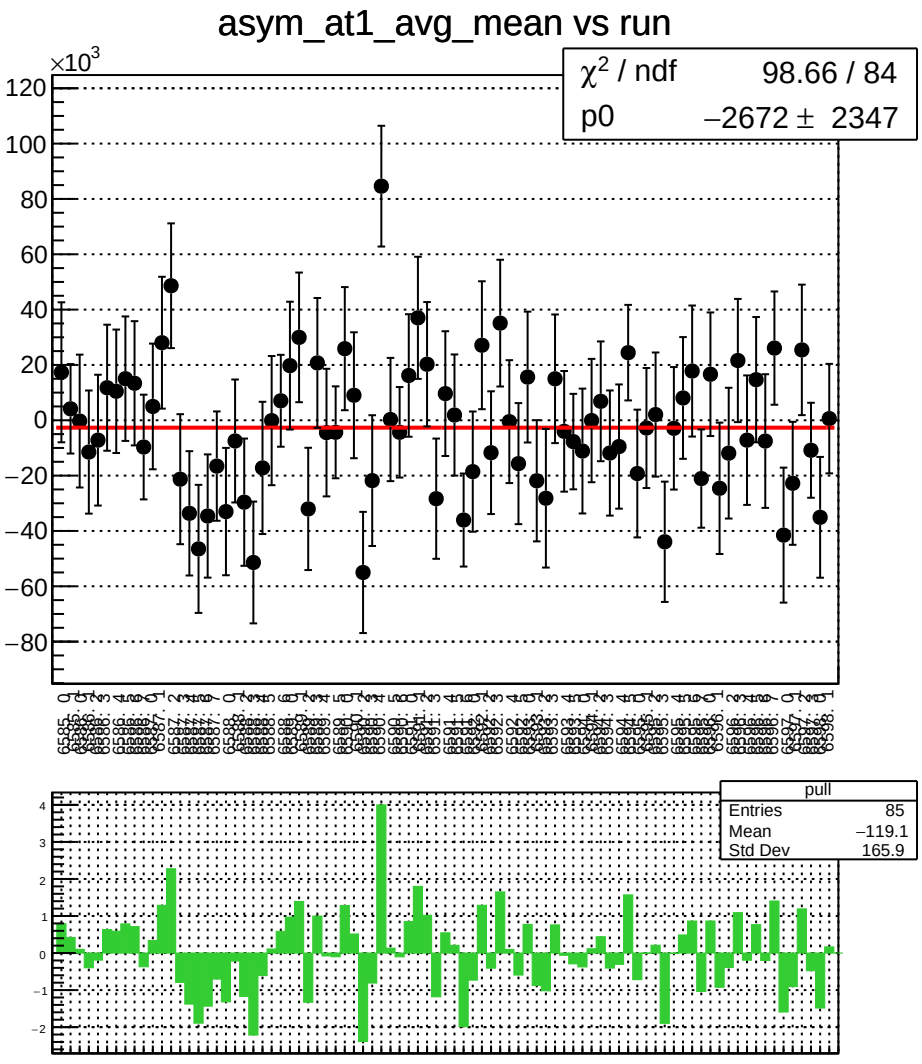
reg_asym_at1_avg_rms vs run

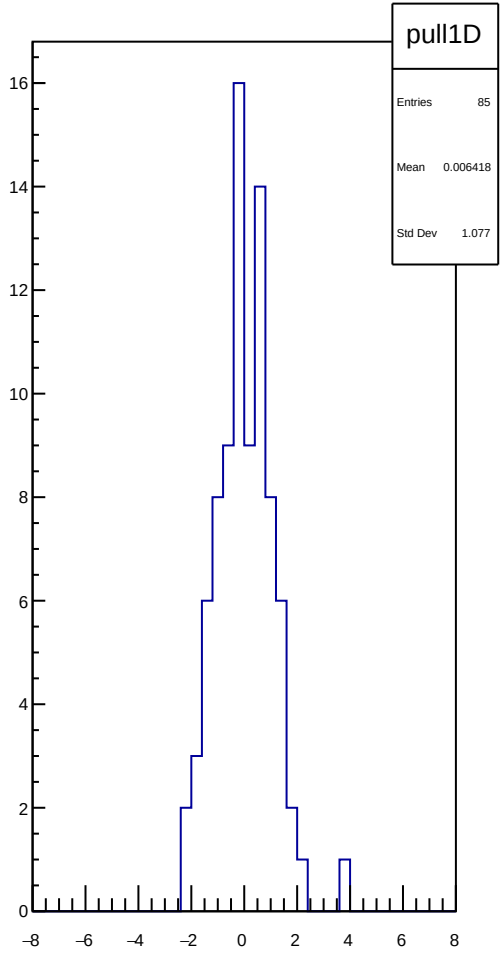


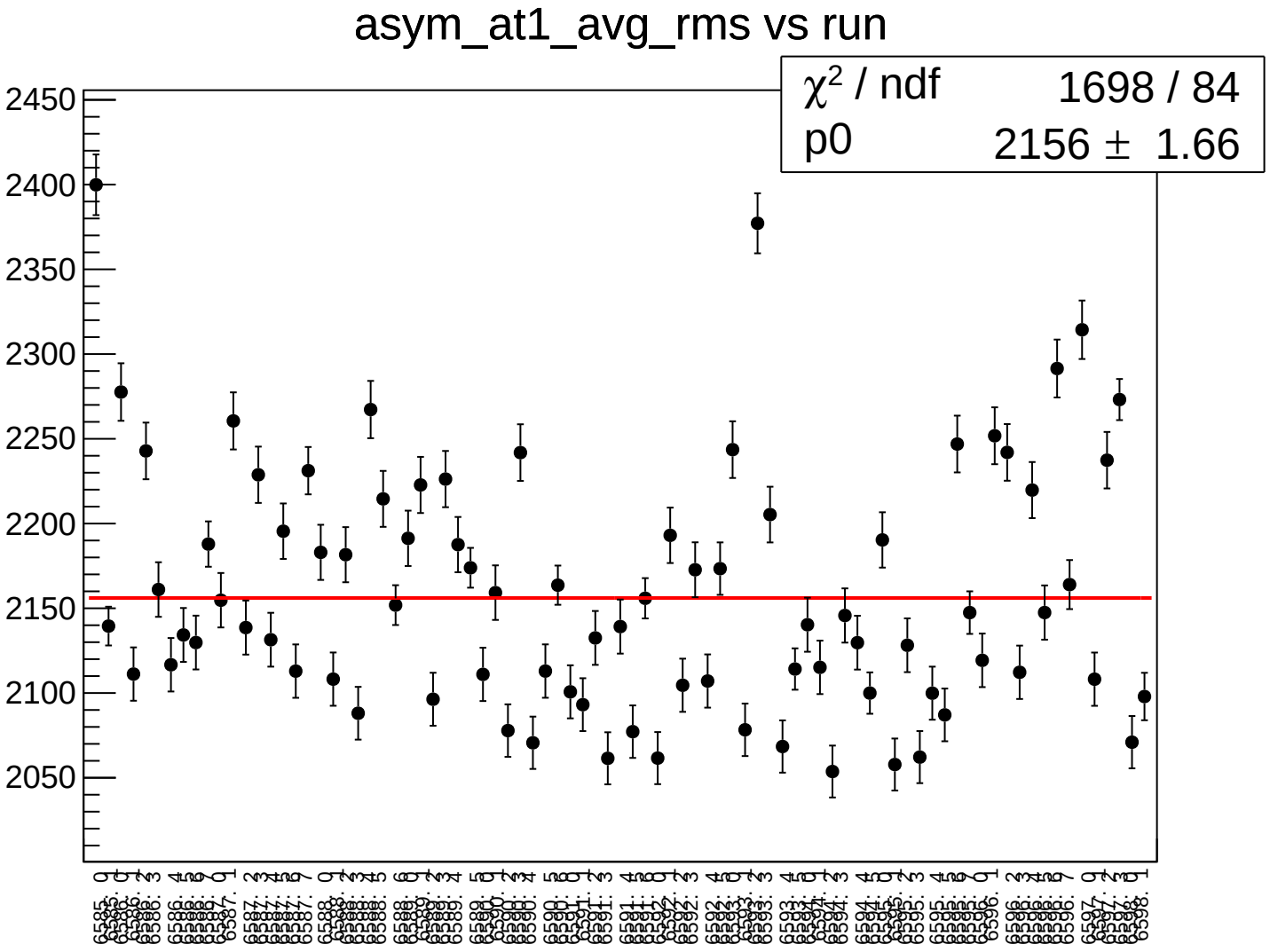

asym_at1_avg_correction_mean vs run
χ² / ndf 83.98 / 84
p0 329.2 ± 1143
pull
Entries 85
Mean −67.86
Std Dev 134.1
pull1D
Entries 85
Mean 0.004126
Std Dev 0.9939

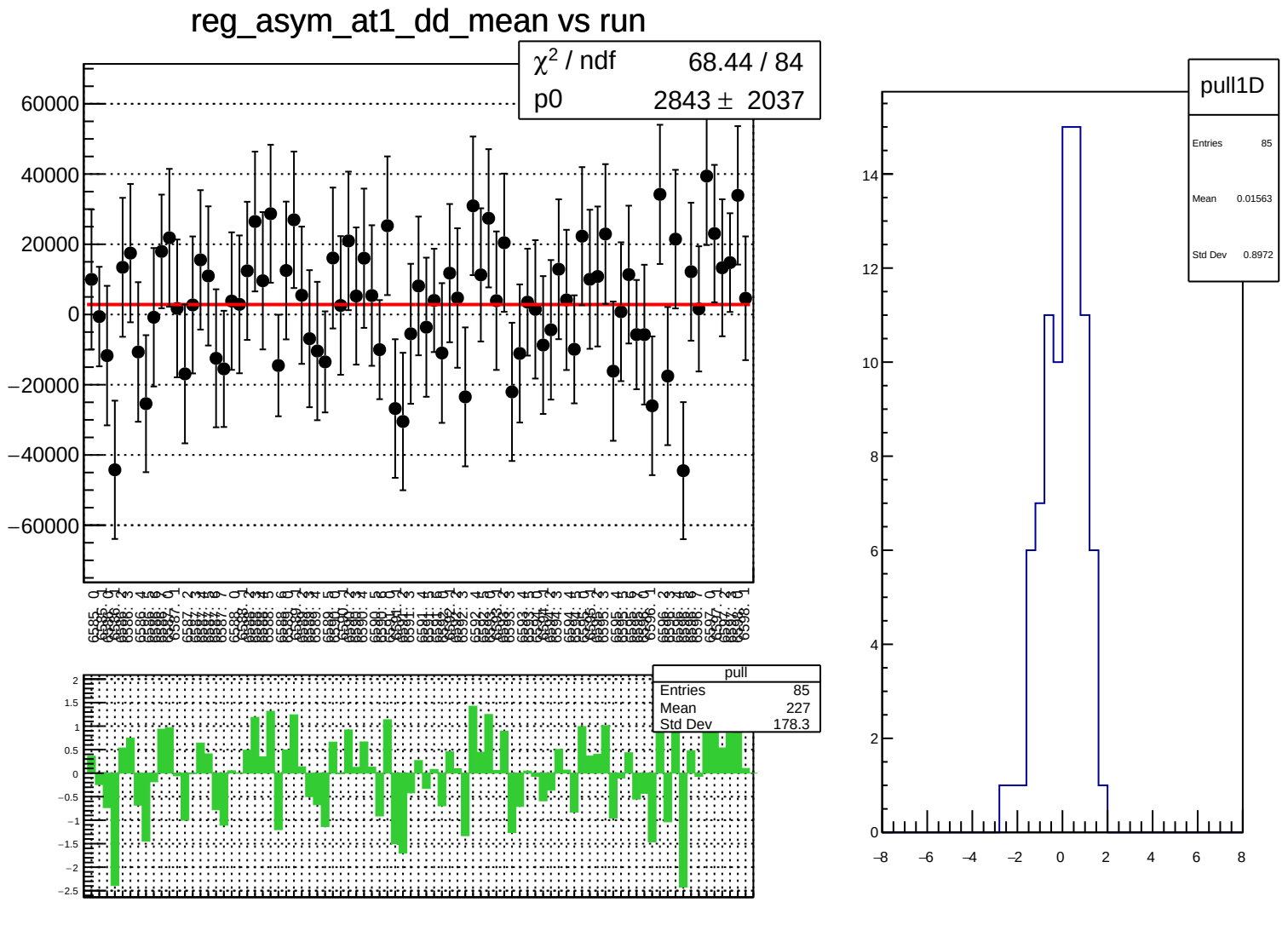
asym_at1_avg_correction_rms vs run



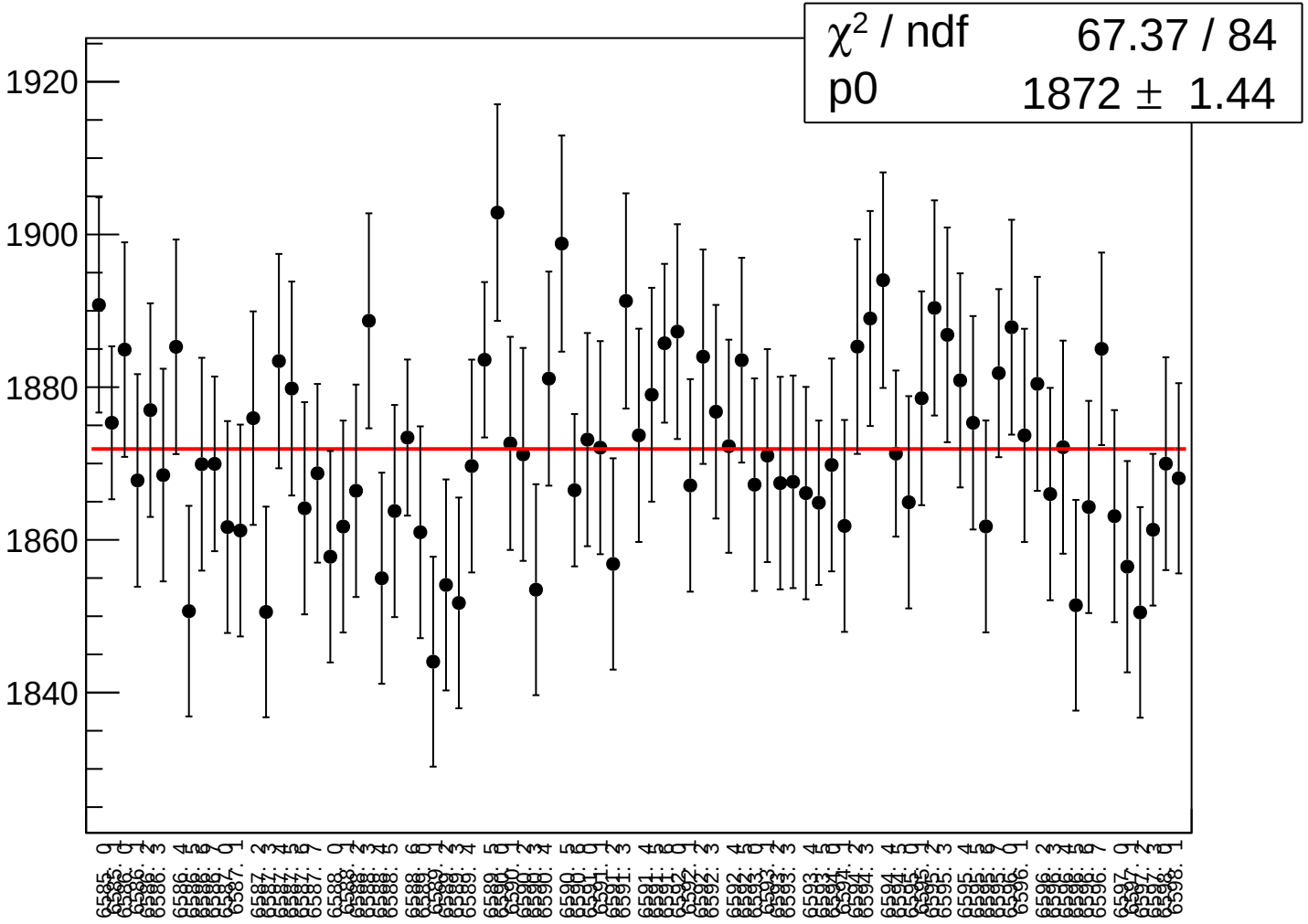

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 98.66 / 84
p0 −2672 ± 2347
pull
Entries 85
Mean −119.1
Std Dev 165.9

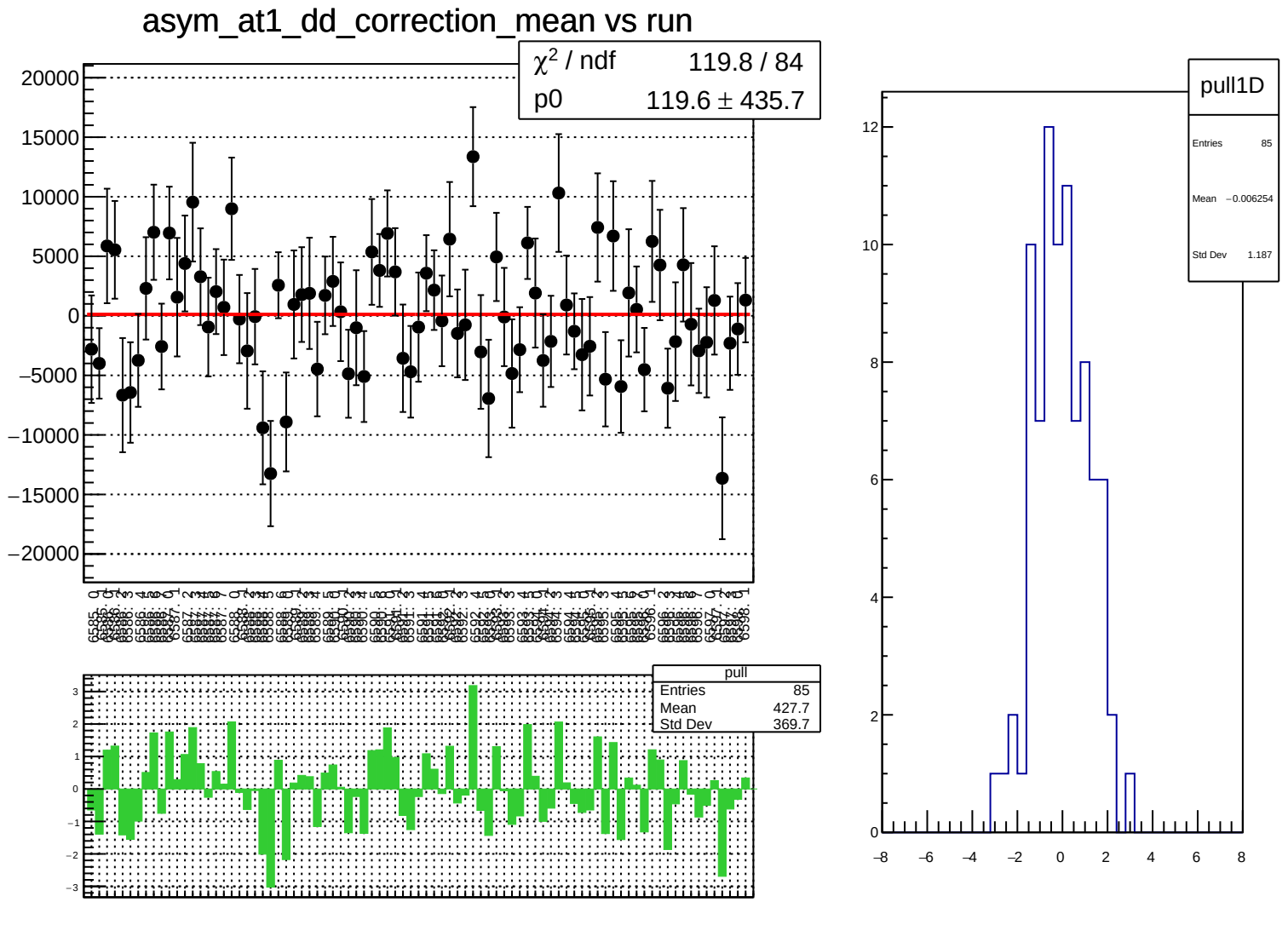

pull1D
Entries 85
Mean 0.006418
Std Dev 1.077


asym_at1_avg_rms vs run
χ² / ndf 1698 / 84
p0 2156 ± 1.66
2450
2400
2350
2300
2250
2200
2150
2100
2050

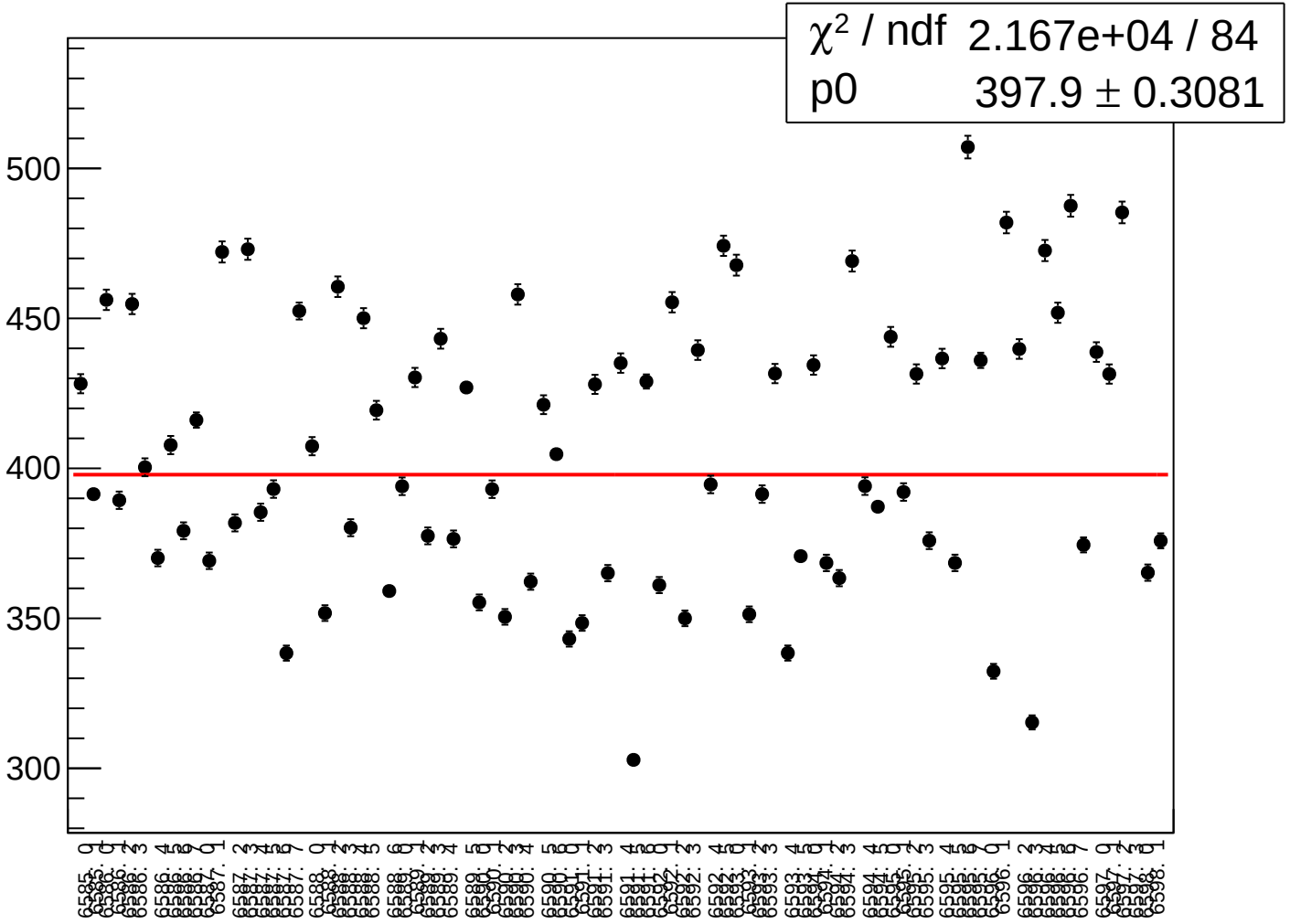

reg_asym_at1_dd_mean vs run
χ² / ndf 68.44 / 84
p0 2843 ± 2037
pull
Entries 85
Mean 227
Std Dev 178.3
pull1D
Entries 85
Mean 0.01563
Std Dev 0.8972

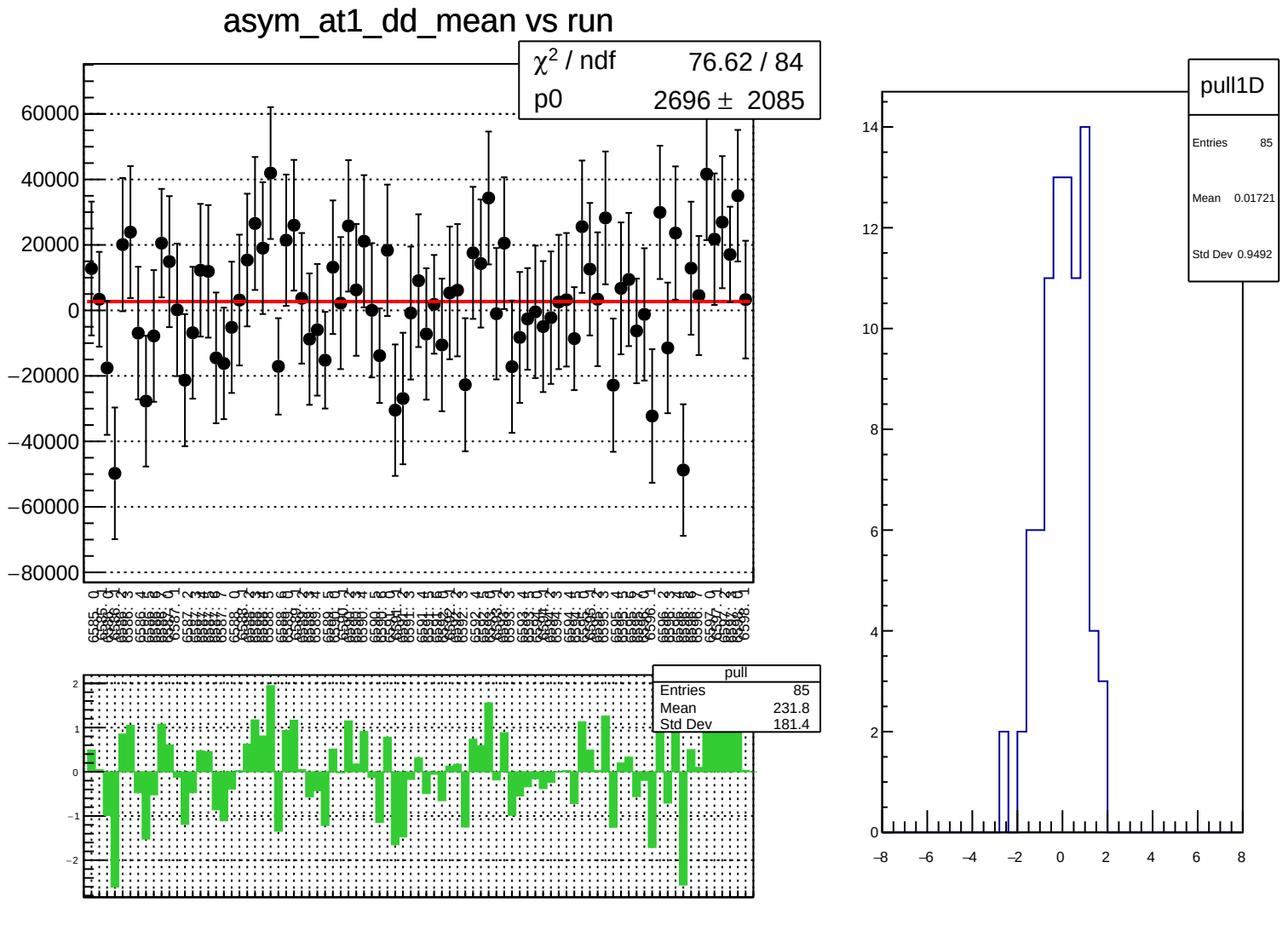
reg_asym_at1_dd_rms vs run

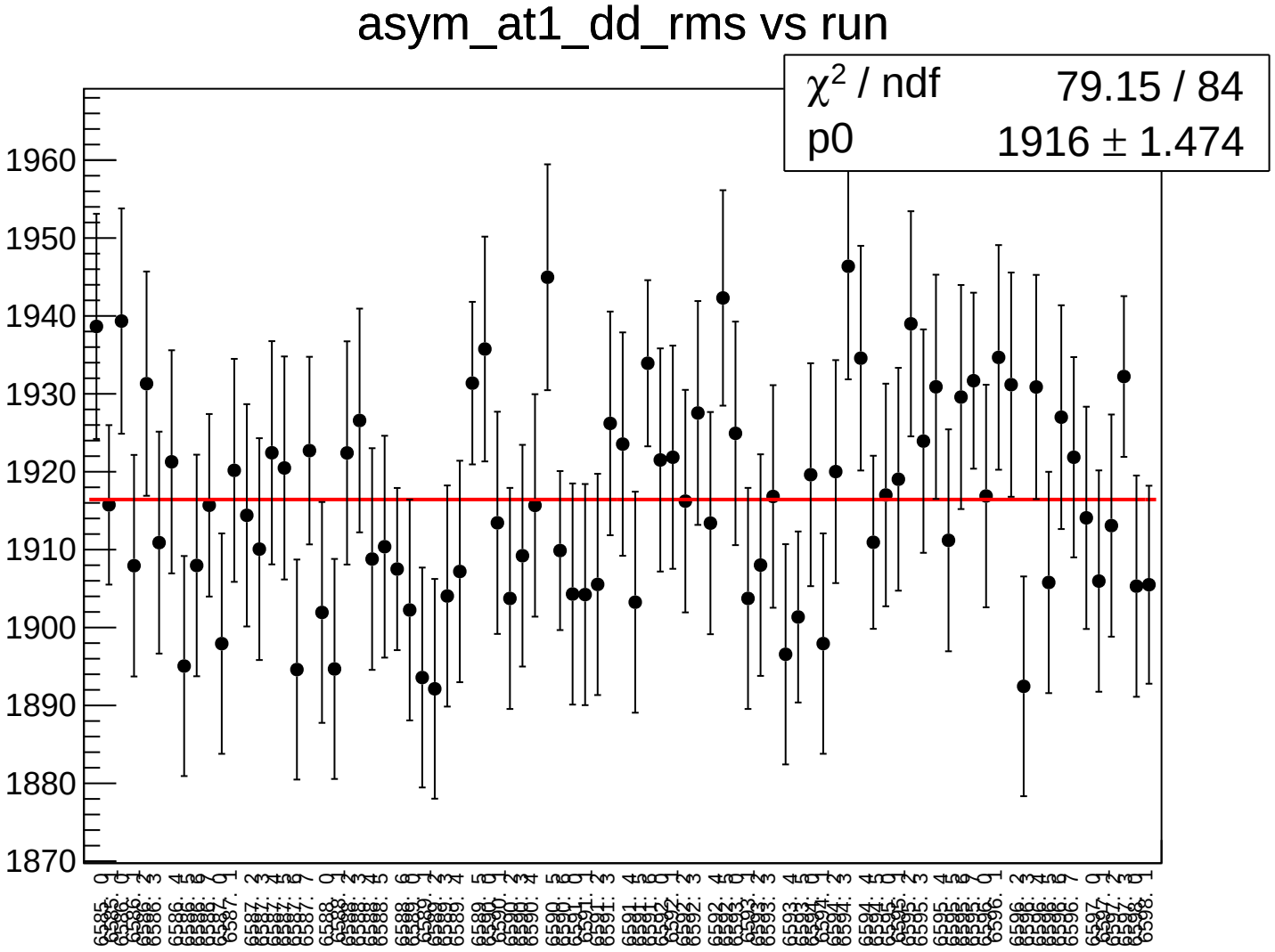


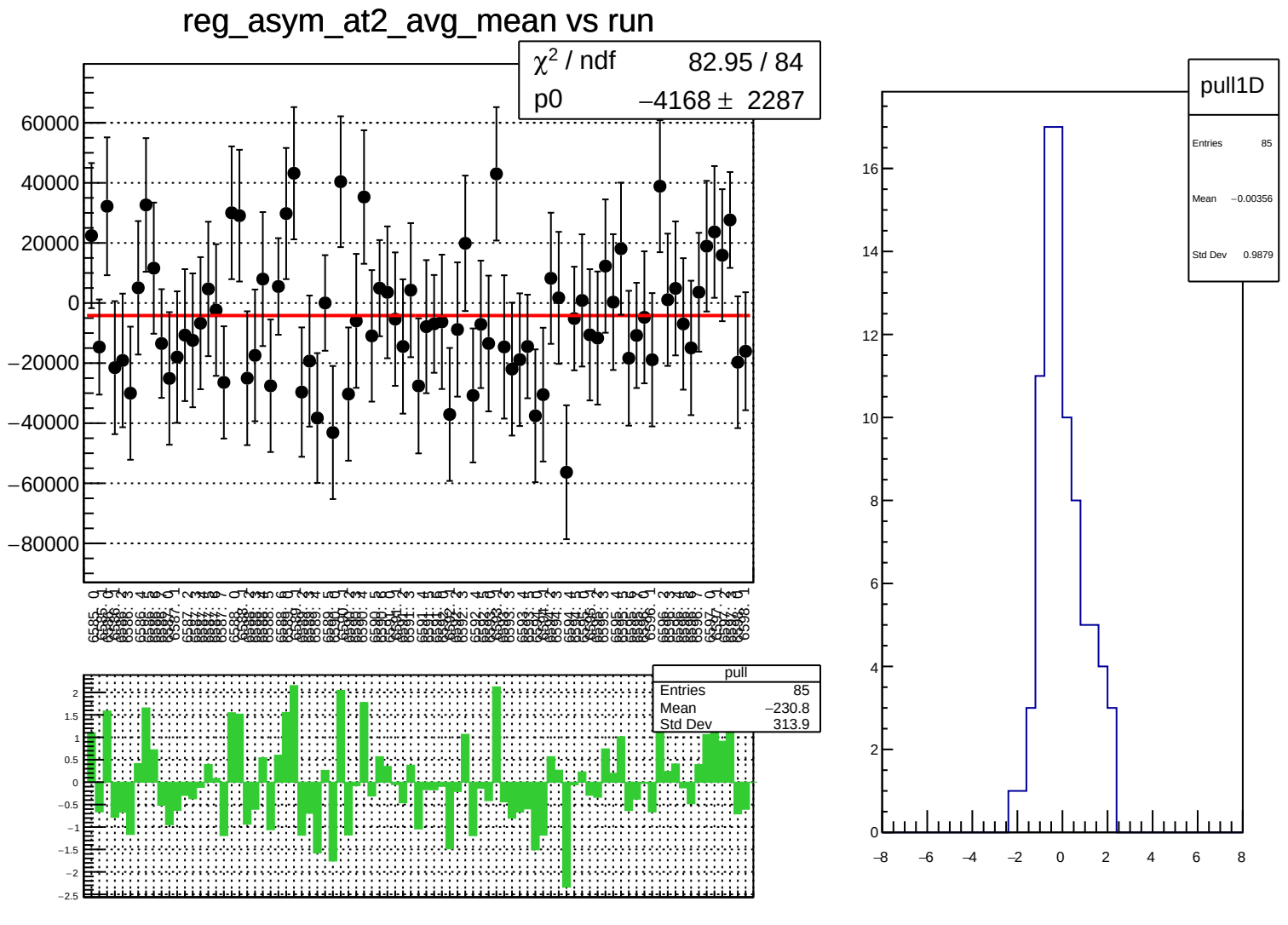

asym_at1_dd_correction_mean vs run
χ² / ndf 119.8 / 84
p0 119.6 ± 435.7
pull
Entries 85
Mean 427.7
Std Dev 369.7
pull1D
Entries 85
Mean −0.006254
Std Dev 1.187

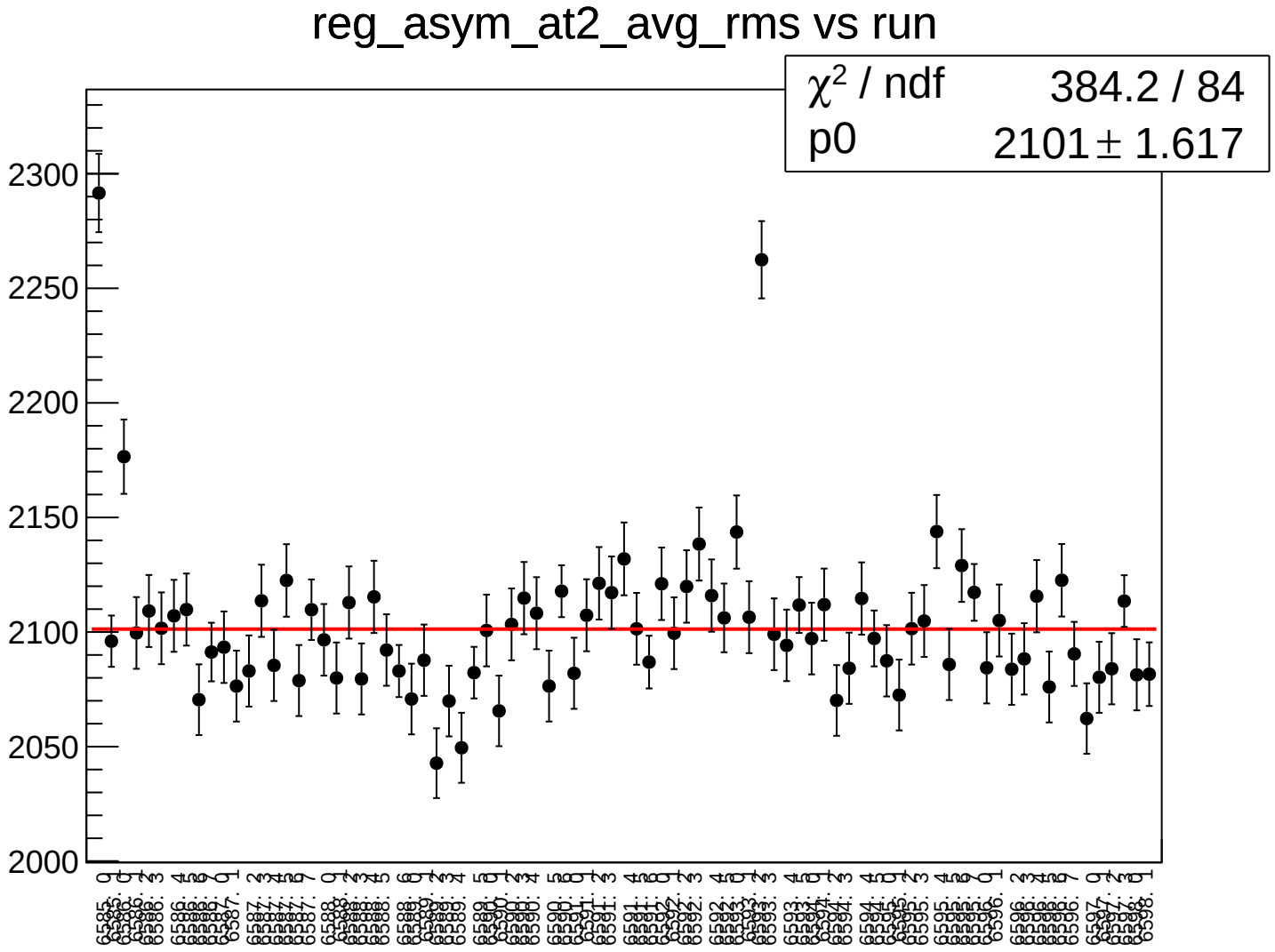
asym_at1_dd_correction_rms vs run

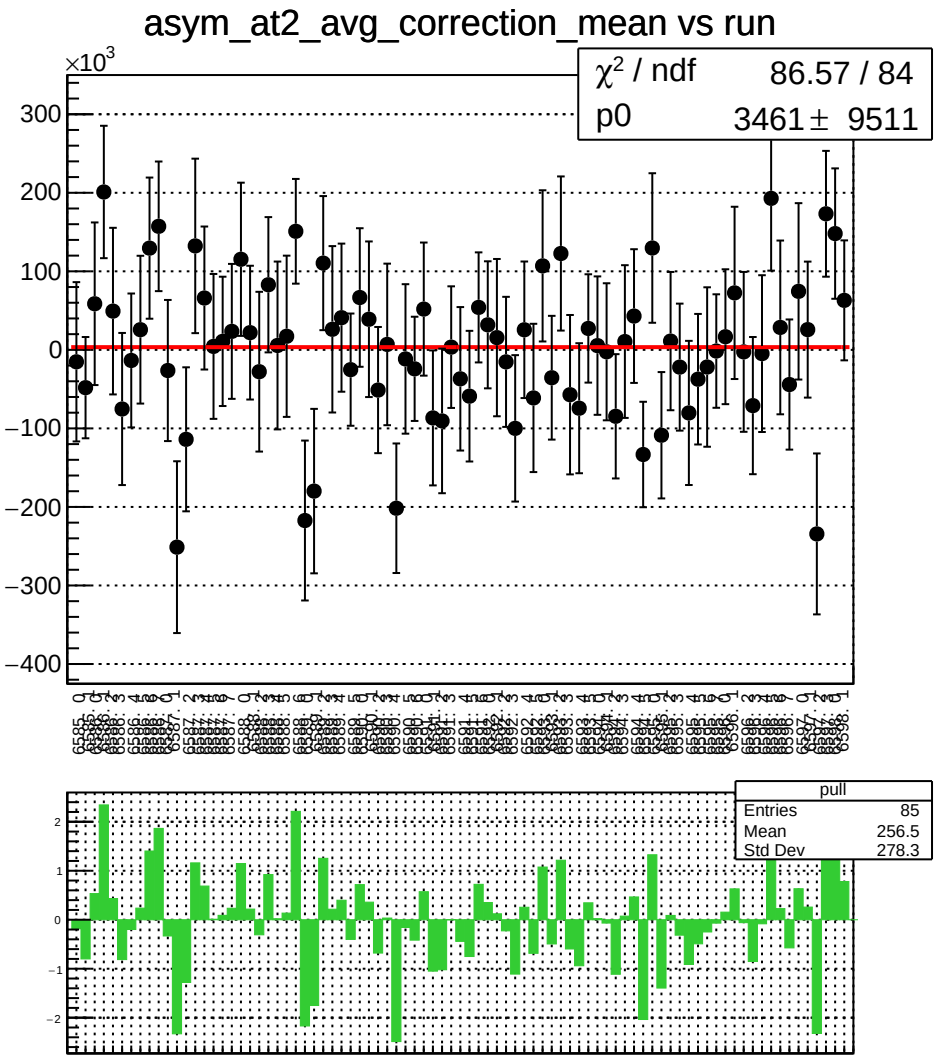


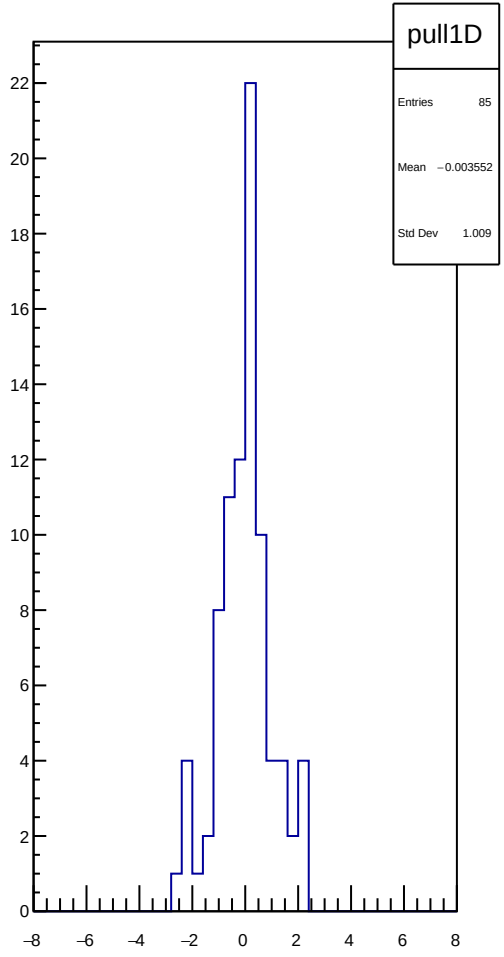

asym_at1_dd_mean vs run
χ² / ndf 76.62 / 84
p0 2696 ± 2085
pull
Entries 85
Mean 231.8
Std Dev 181.4
pull1D
Entries 85
Mean 0.01721
Std Dev 0.9492


asym_at1_dd_rms vs run
χ2 / ndf 79.15 / 84
p0 1916 ± 1.474
1960
1950
1940
1930
1920
1910
1900
1890
1880
1870

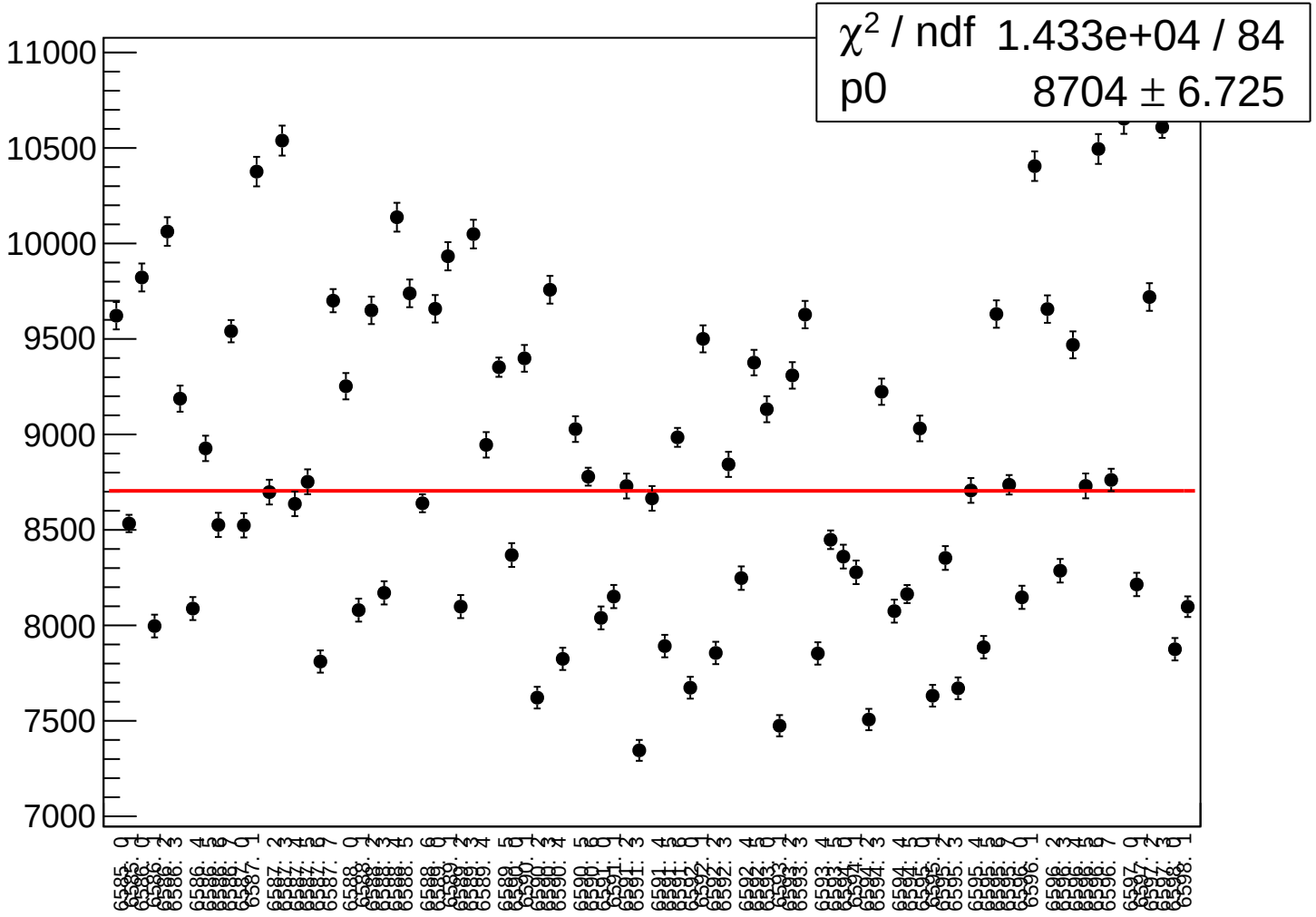

reg_asym_at2_avg_mean vs run
χ² / ndf 82.95 / 84
p0 −4168 ± 2287
pull
Entries 85
Mean −230.8
Std Dev 313.9
pull1D
Entries 85
Mean −0.00356
Std Dev 0.9879

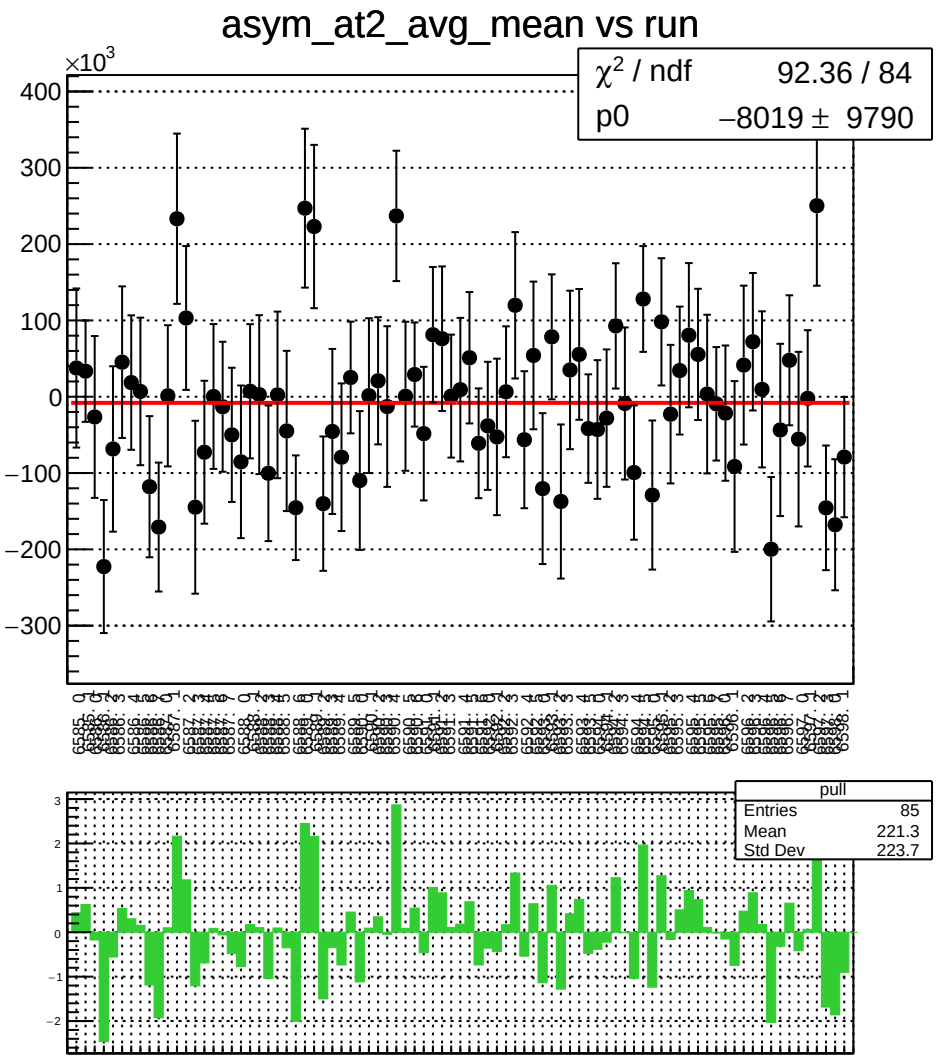

reg_asym_at2_avg_rms vs run
χ² / ndf 384.2 / 84
p0 2101 ± 1.617
2300
2250
2200
2150
2100
2050
2000

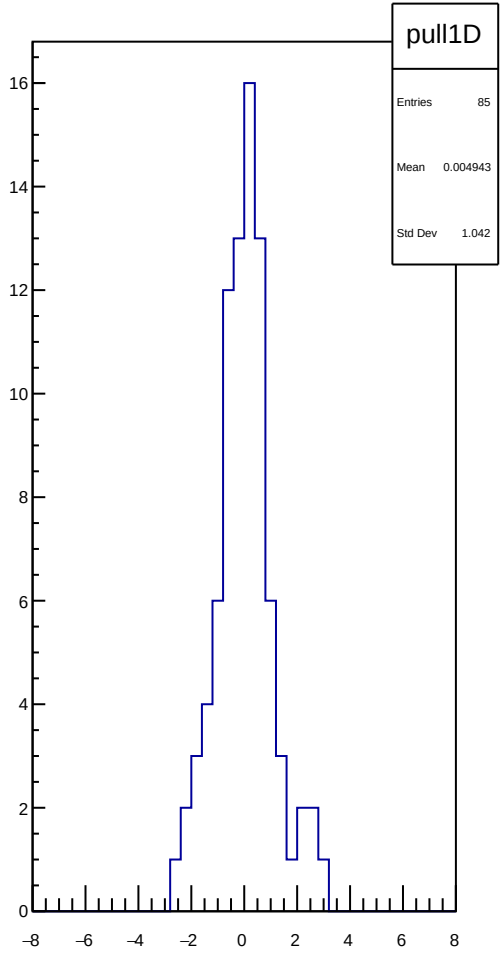

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 86.57 / 84
p0 3461 ± 9511
pull
Entries 85
Mean 256.5
Std Dev 278.3

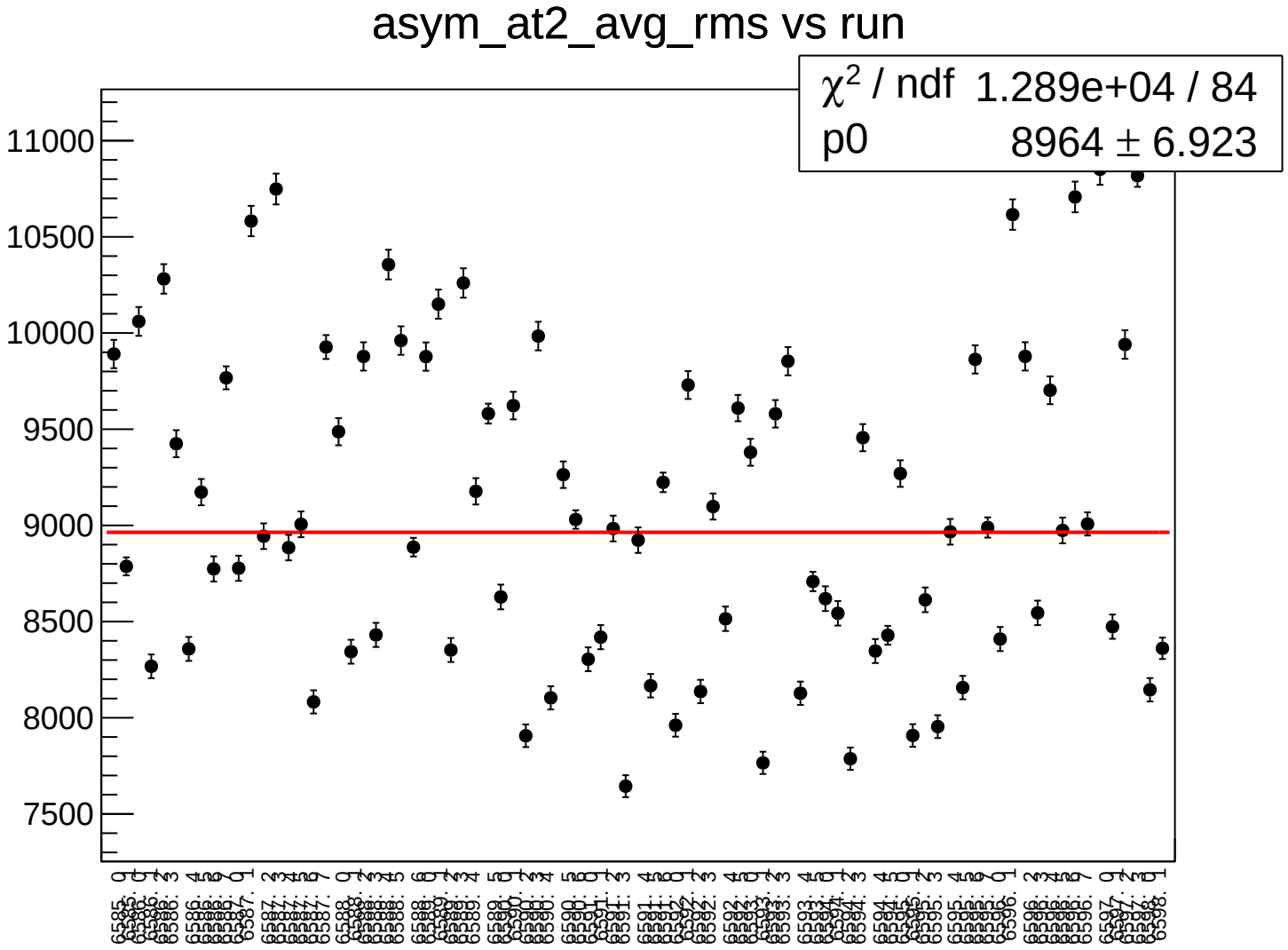

pull1D
Entries 85
Mean −0.003552
Std Dev 1.009

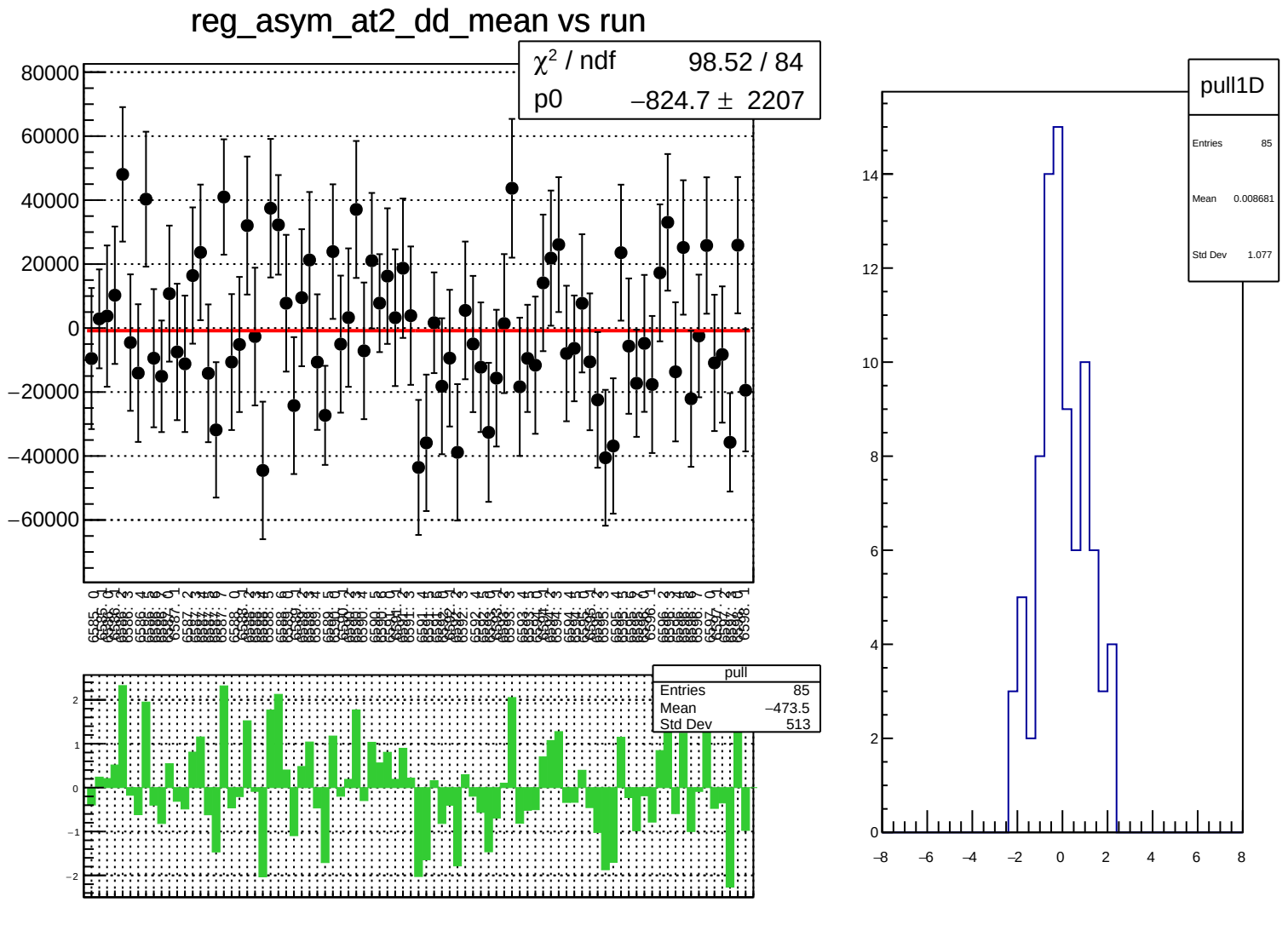
asym_at2_avg_correction_rms vs run

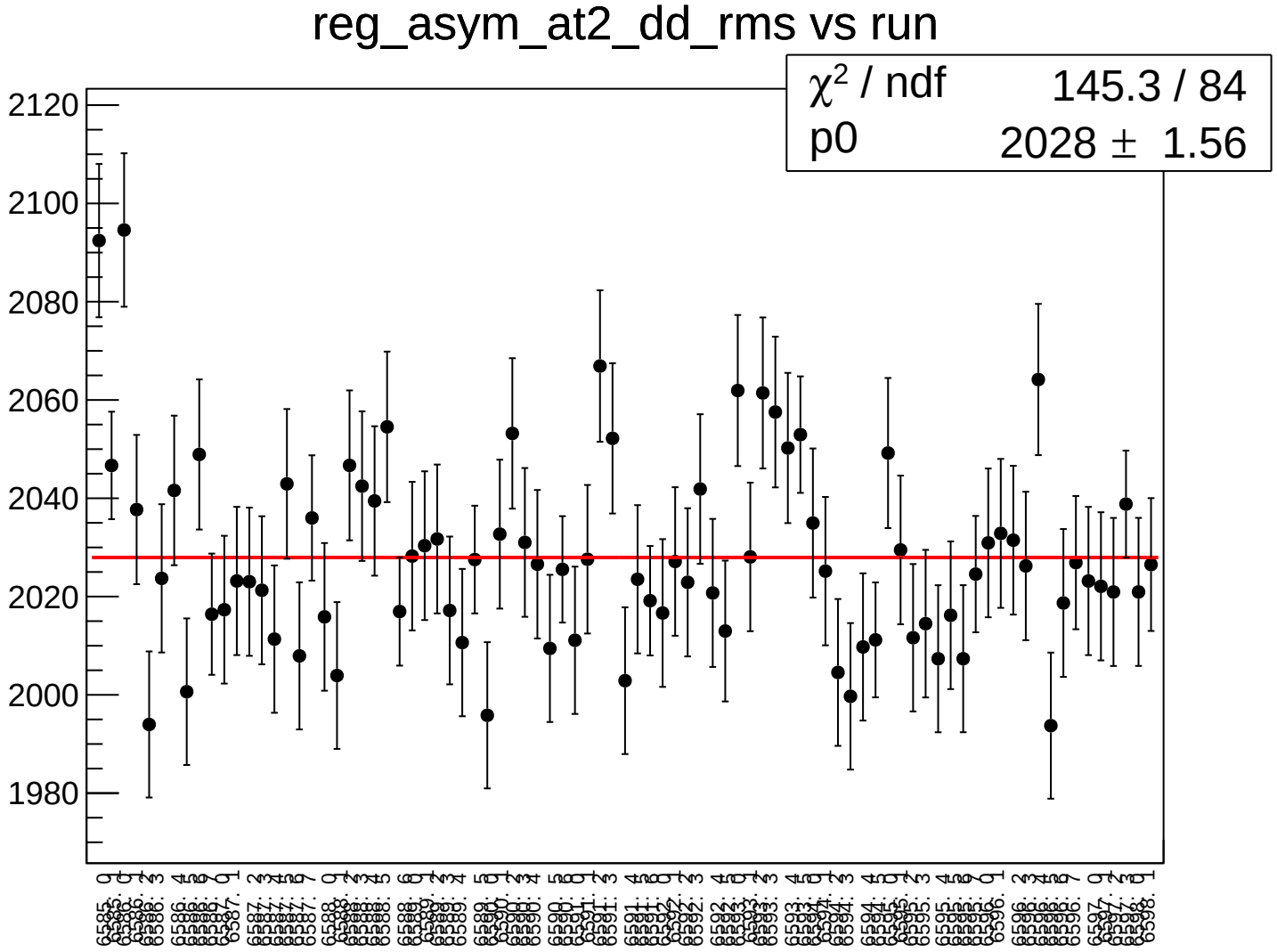


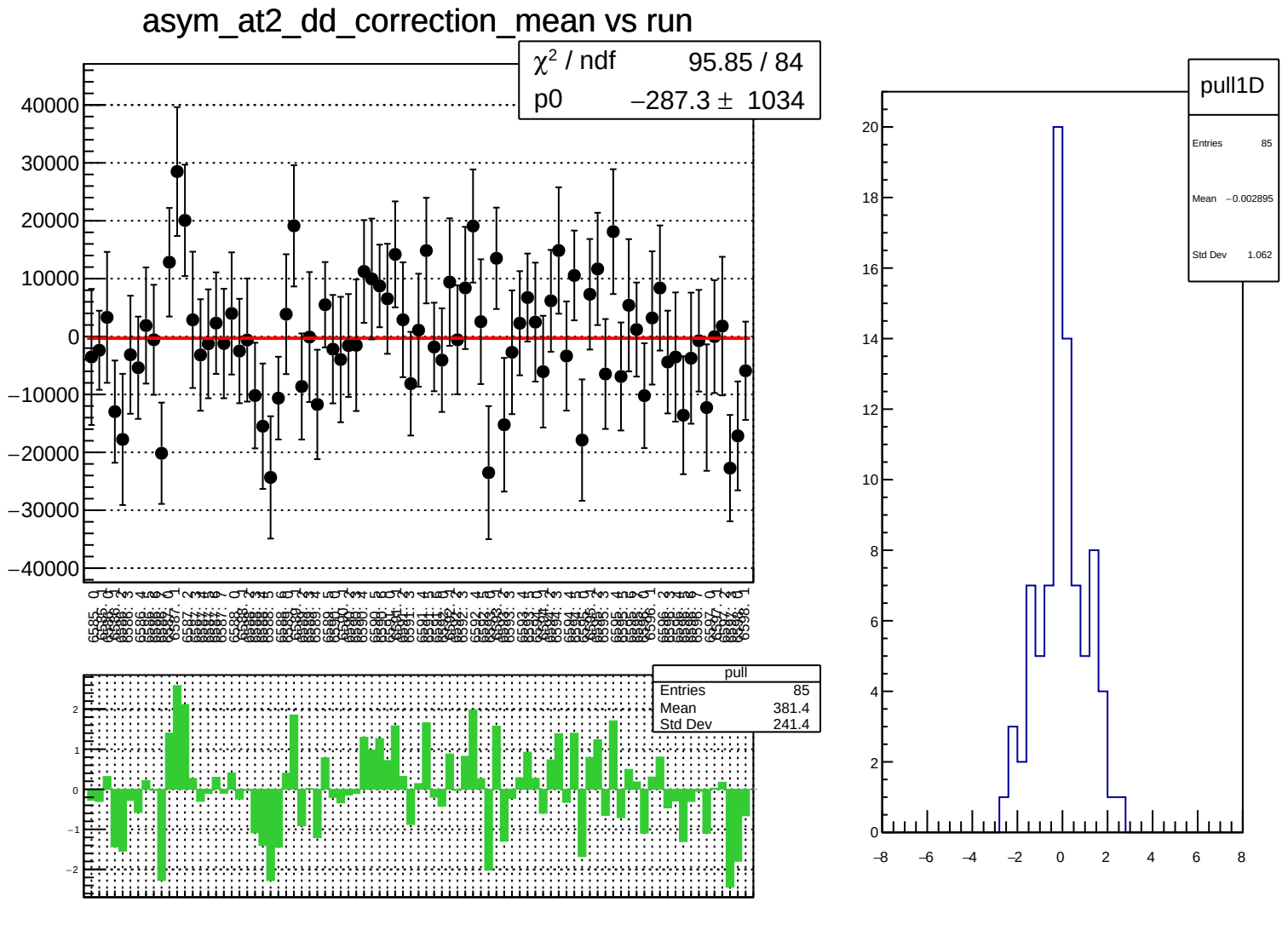

asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.36 / 84
p0 −8019 ± 9790
pull
Entries 85
Mean 221.3
Std Dev 223.7


pull1D
Entries 85
Mean 0.004943
Std Dev 1.042

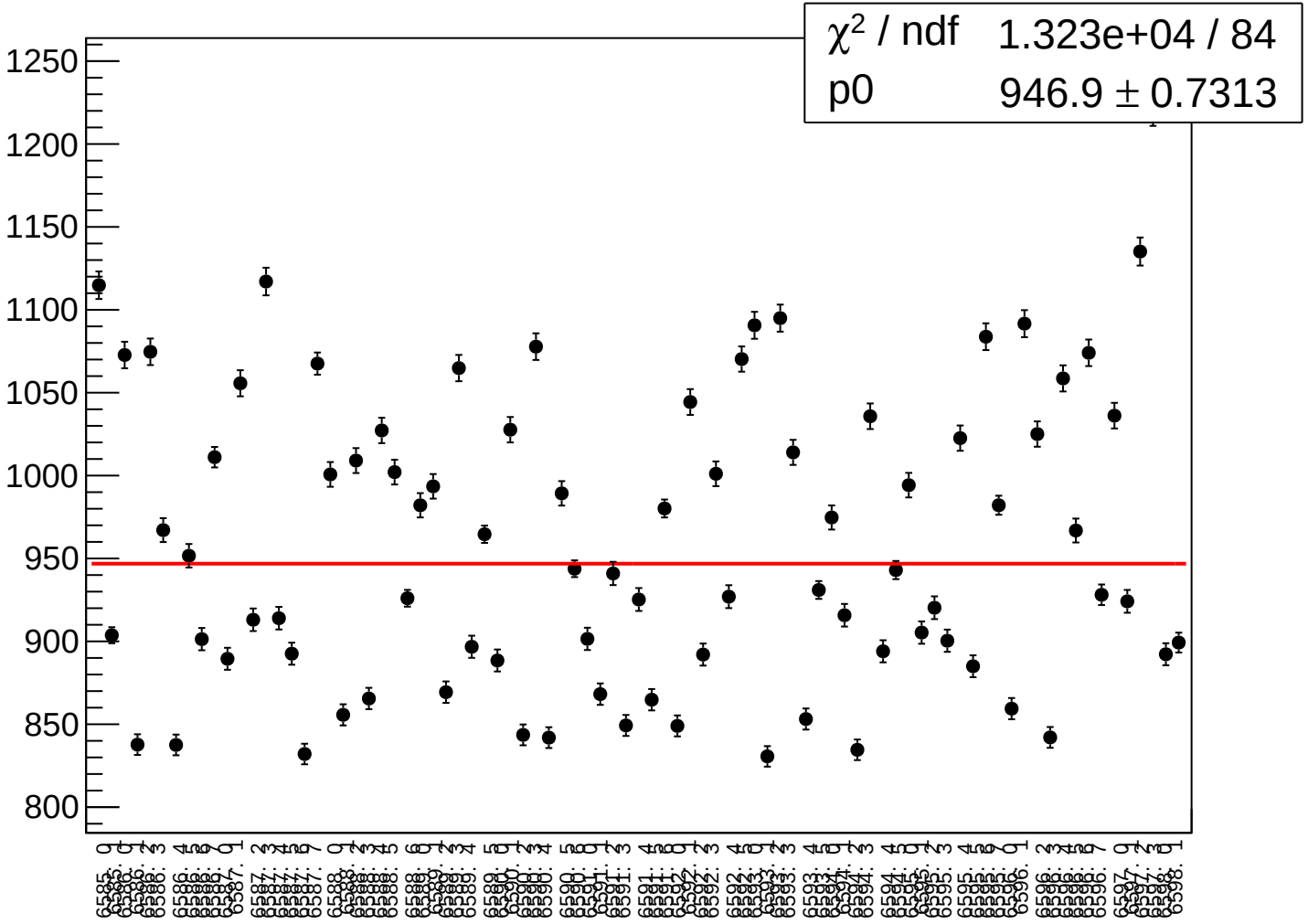

asym_at2_avg_rms vs run
χ^2 / ndf 1.289e+04 / 84
p0 8964 ± 6.923
11000
10500
10000
9500
9000
8500
8000
7500

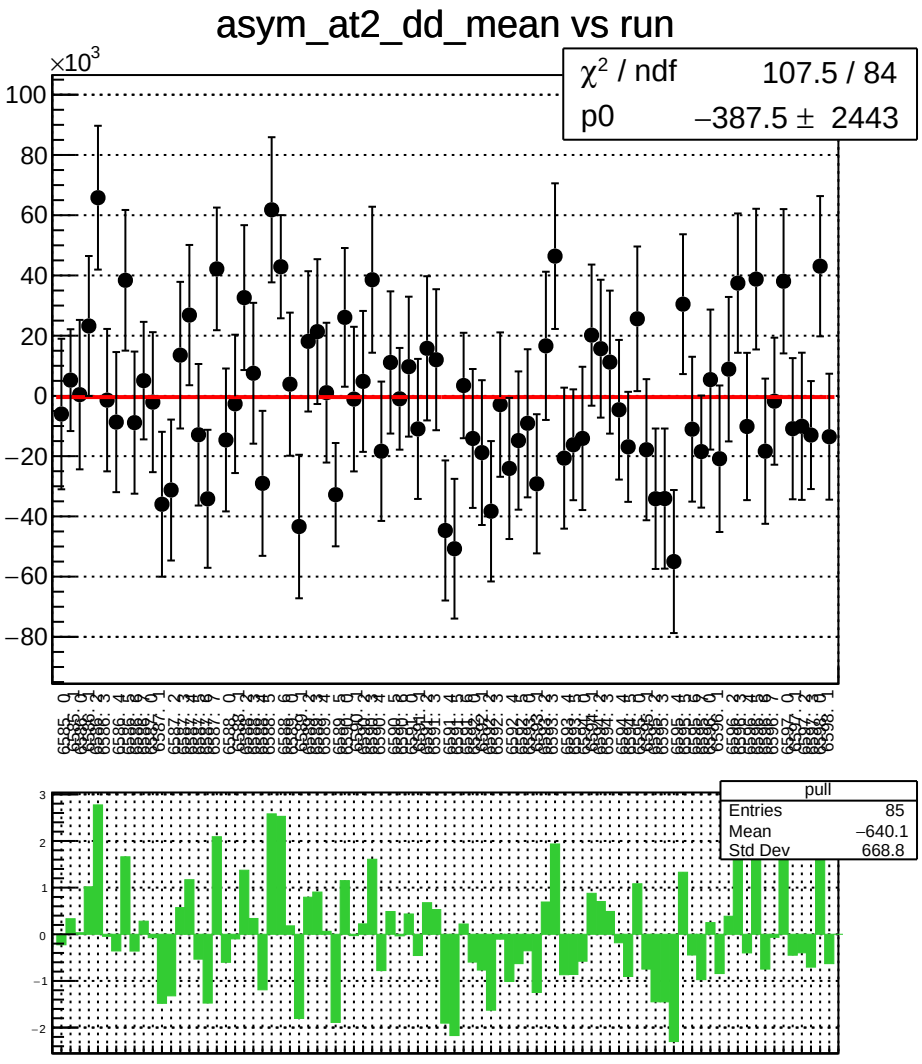

reg_asym_at2_dd_mean vs run
χ² / ndf 98.52 / 84
p0 −824.7 ± 2207
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −473.5
Std Dev 513
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.008681
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

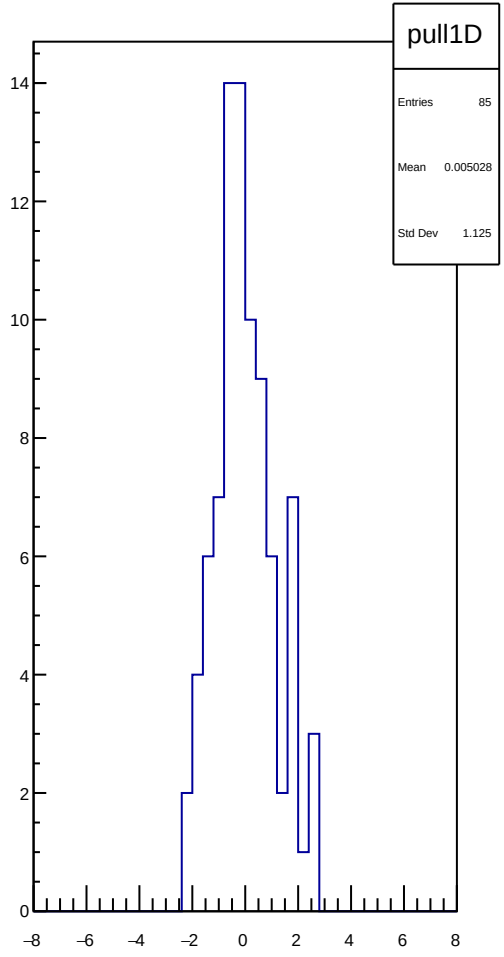

reg_asym_at2_dd_rms vs run
χ² / ndf 145.3 / 84
p0 2028 ± 1.56
2120
2100
2080
2060
2040
2020
2000
1980

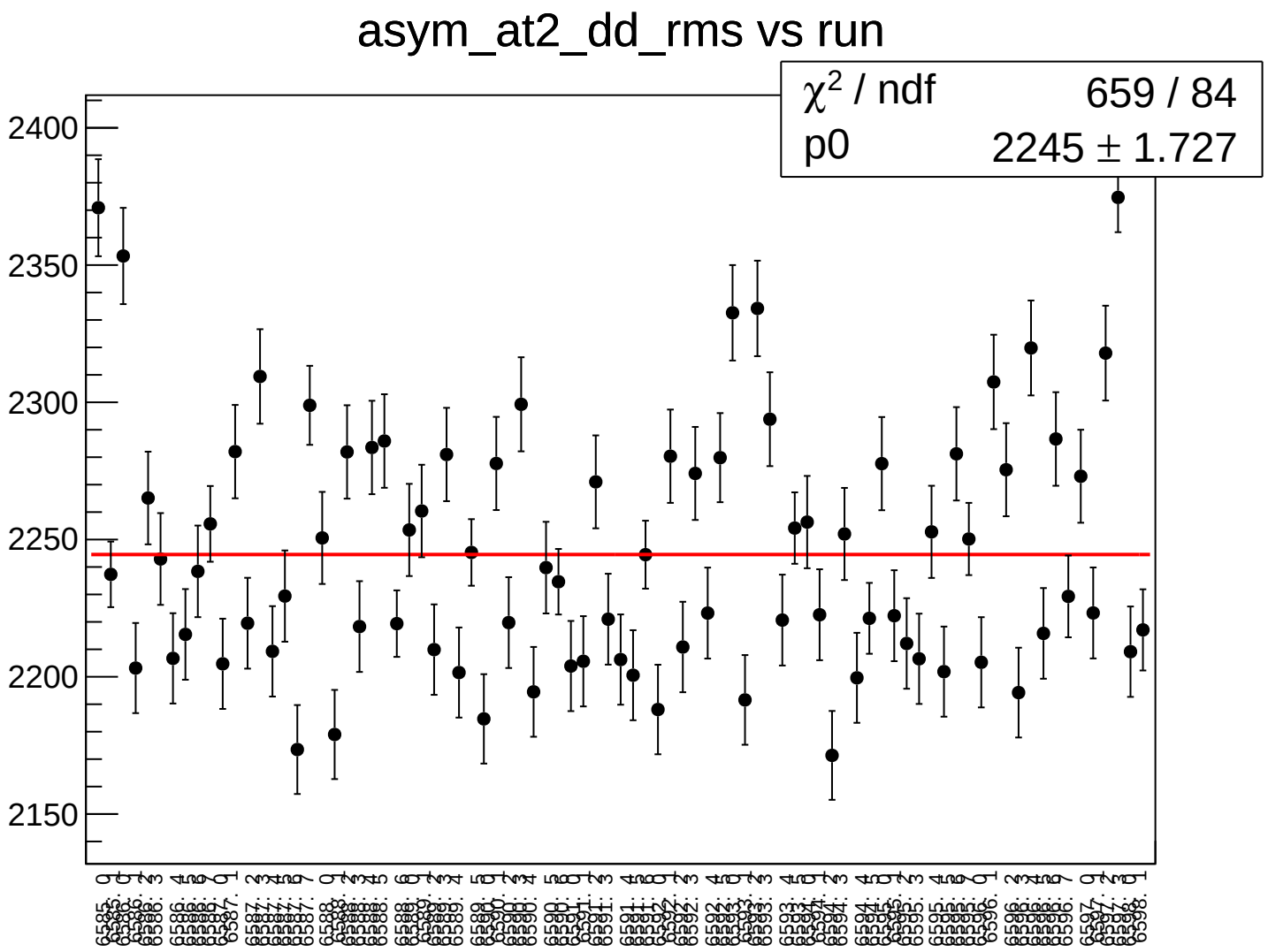

asym_at2_dd_correction_mean vs run
χ² / ndf 95.85 / 84
p0 −287.3 ± 1034
pull
Entries 85
Mean 381.4
Std Dev 241.4
pull1D
Entries 85
Mean −0.002895
Std Dev 1.062

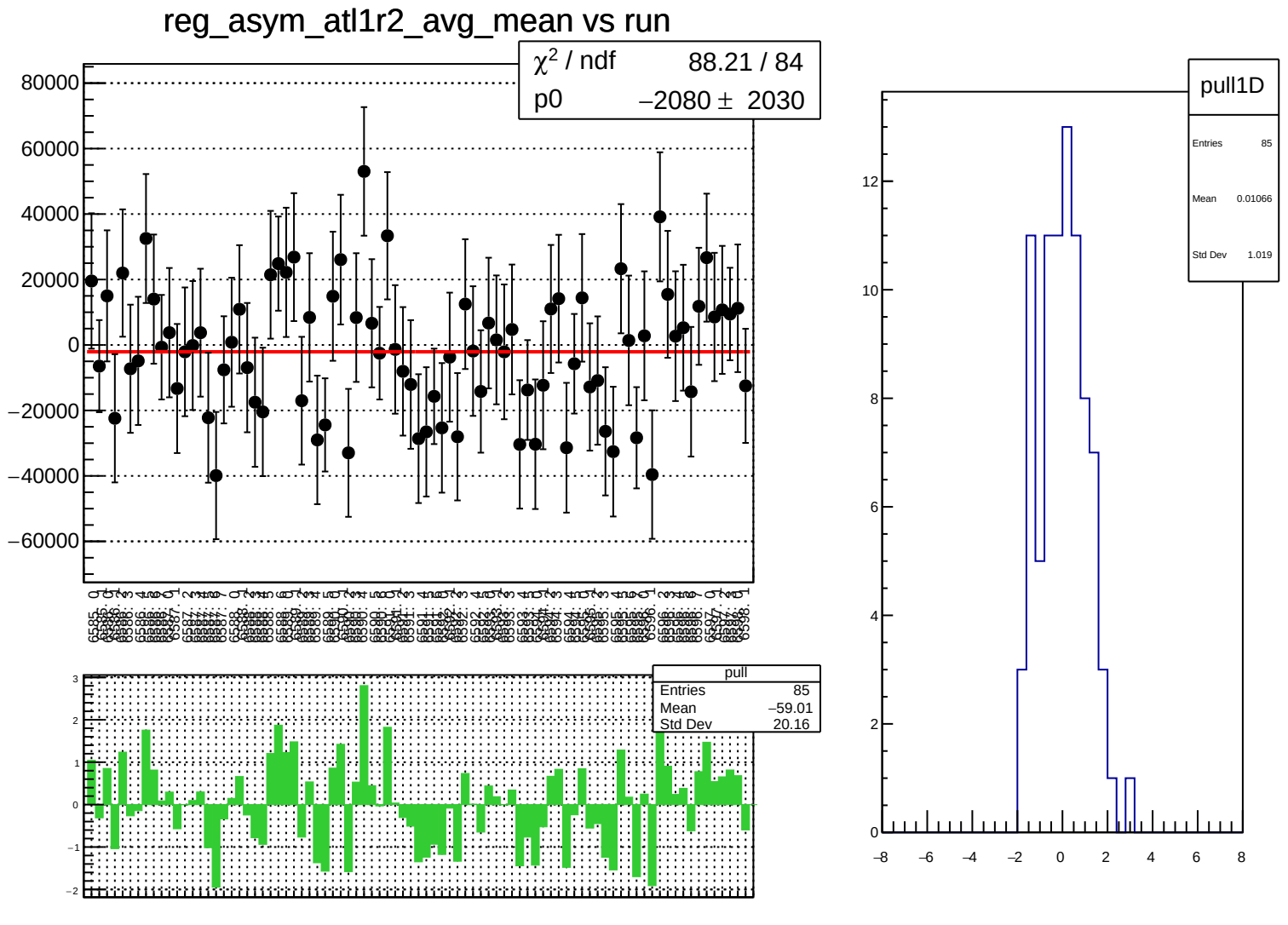
asym_at2_dd_correction_rms vs run



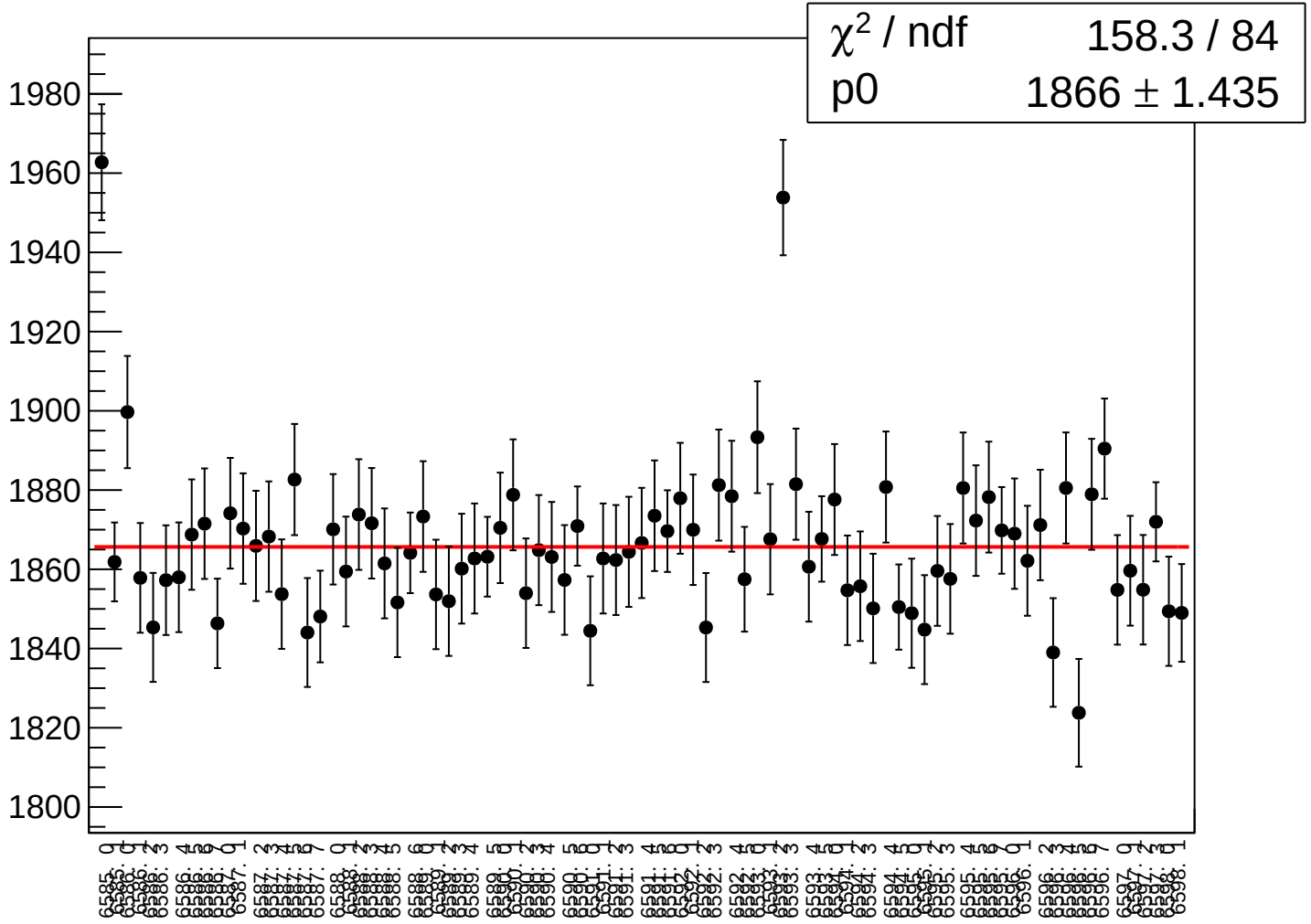

asym_at2_dd_mean vs run
×10^3
χ² / ndf 107.5 / 84
p0 −387.5 ± 2443
pull
Entries 85
Mean −640.1
Std Dev 668.8

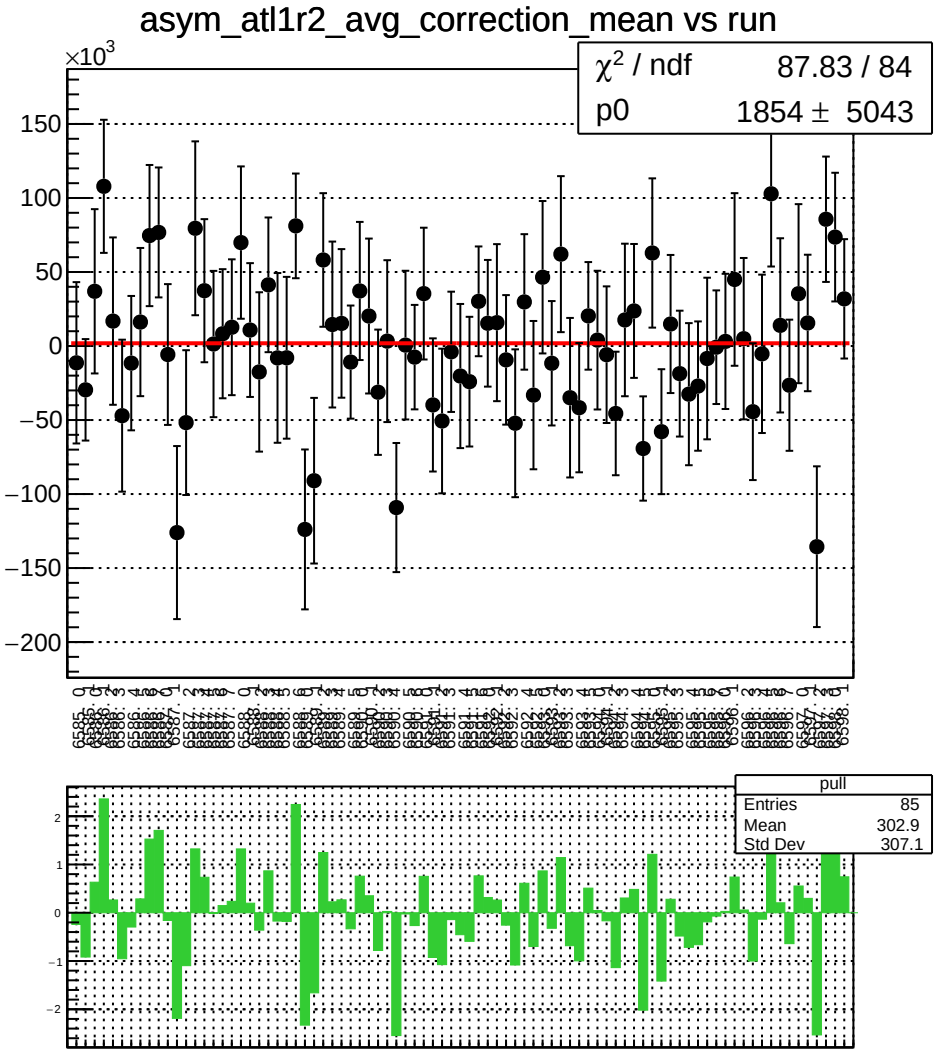

pull1D
Entries 85
Mean 0.005028
Std Dev 1.125

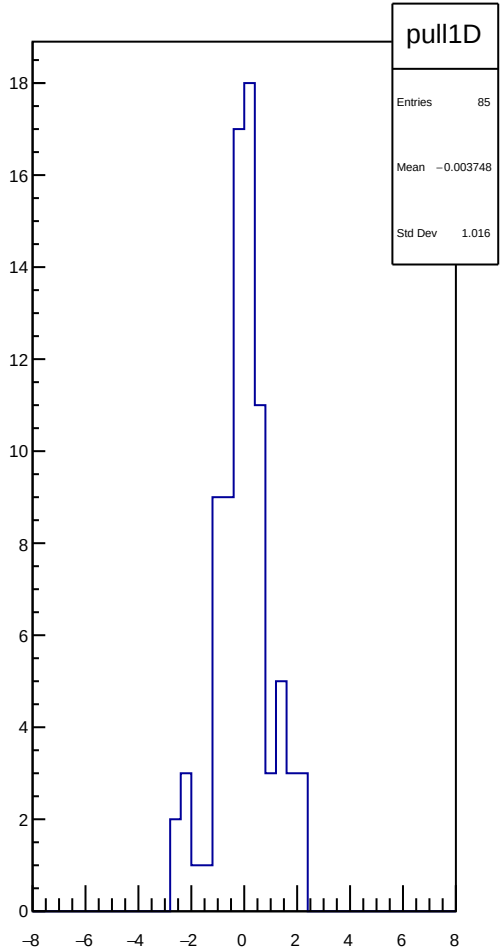

asym_at2_dd_rms vs run
χ² / ndf 659 / 84
p0 2245 ± 1.727
2400
2350
2300
2250
2200
2150


reg_asym_atl1r2_avg_mean vs run
χ² / ndf 88.21 / 84
p0 −2080 ± 2030
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −59.01
Std Dev 20.16
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01066
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

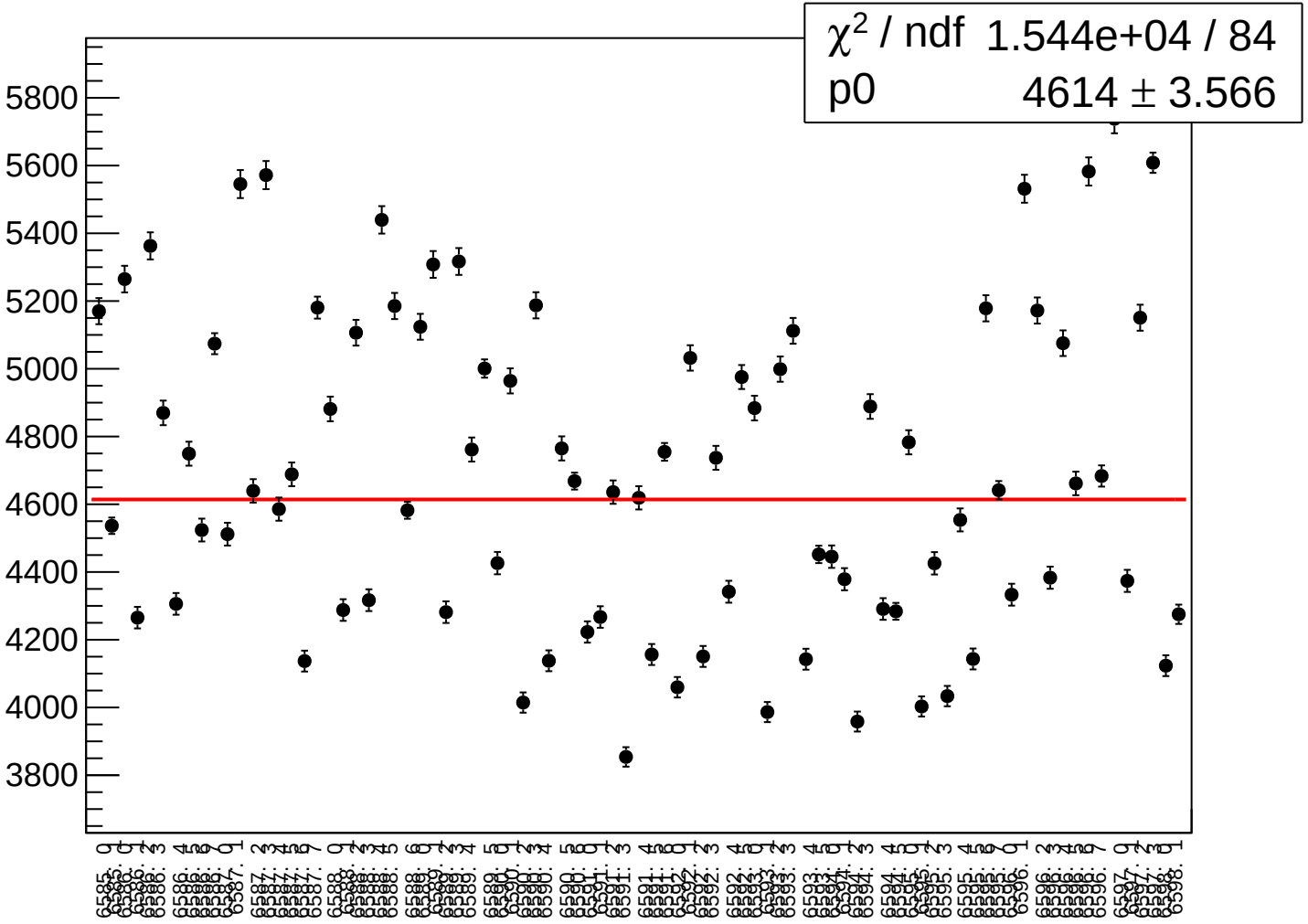
reg_asym_atl1r2_avg_rms vs run

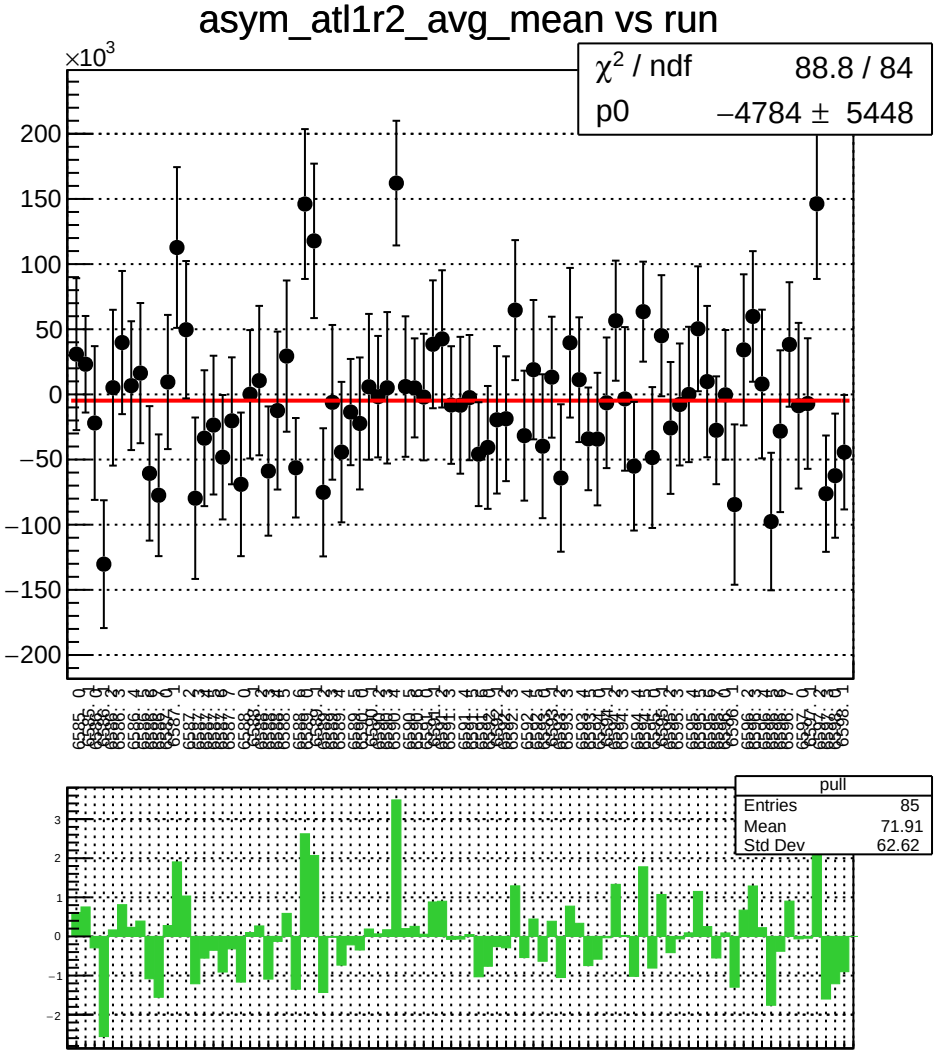


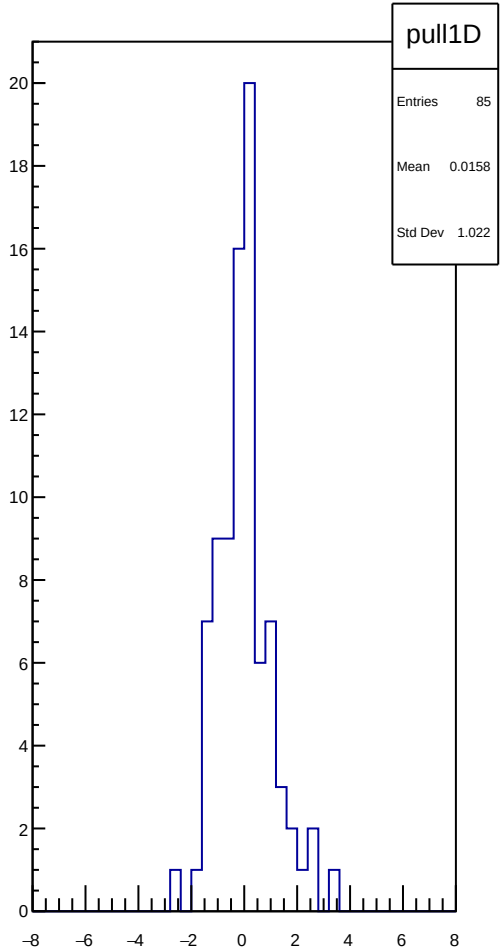

asym_atl1r2_avg_correction_mean vs run
×10^3
χ^2 / ndf 87.83 / 84
p0 1854 ± 5043
pull
Entries 85
Mean 302.9
Std Dev 307.1


pull1D
Entries 85
Mean −0.003748
Std Dev 1.016

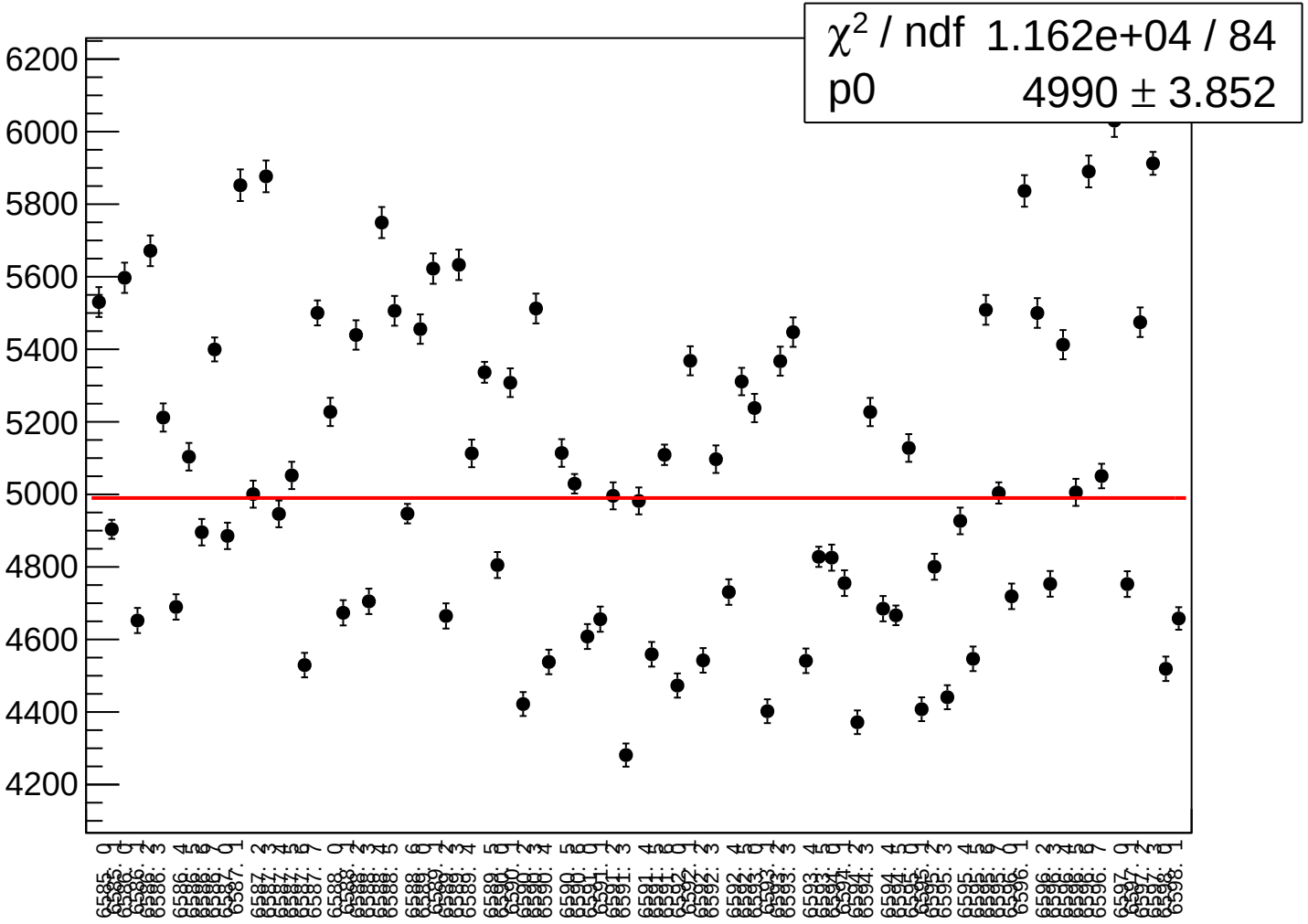
asym_atl1r2_avg_correction_rms vs run

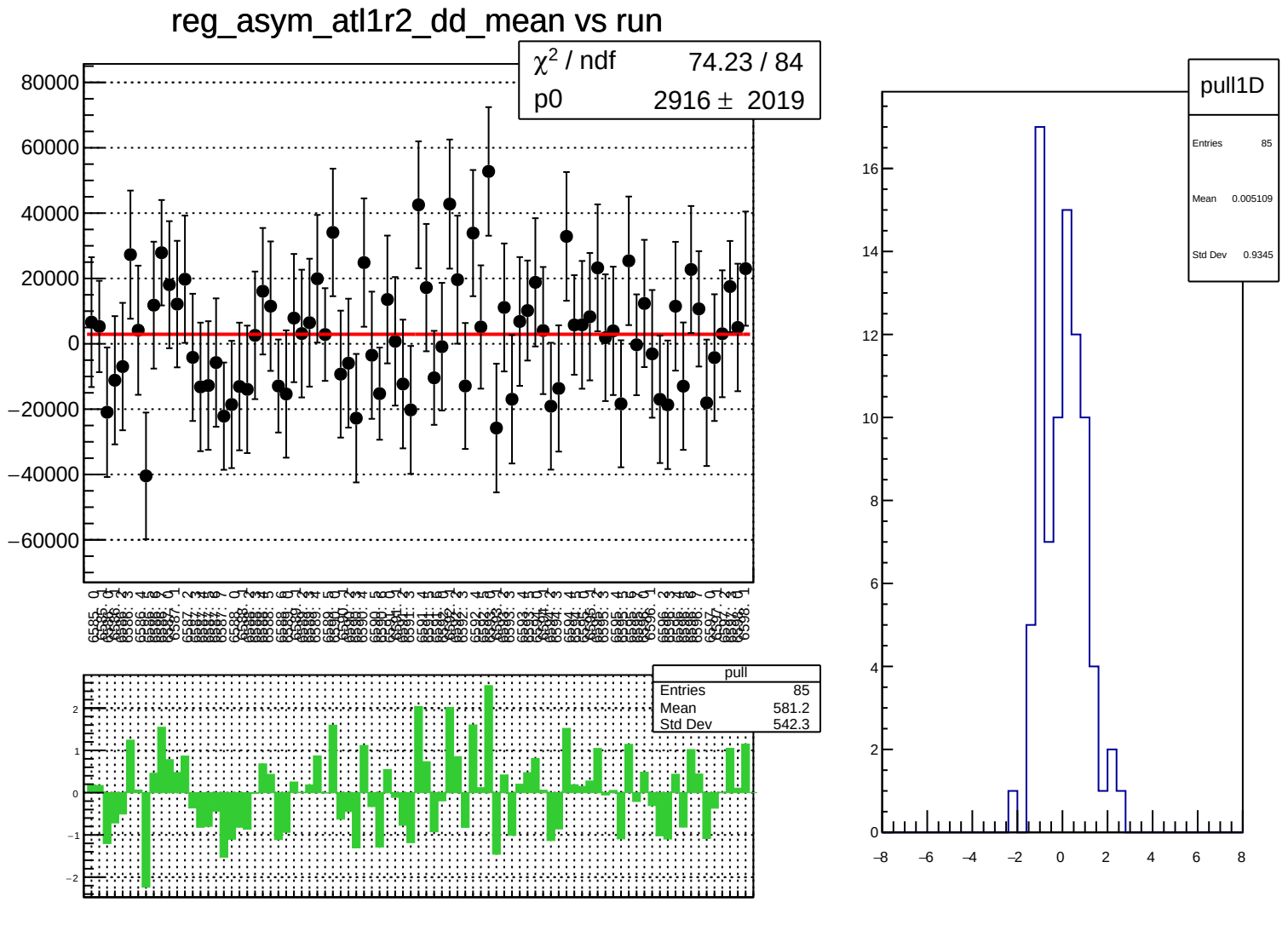



asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 88.8 / 84
p0 −4784 ± 5448
pull
Entries 85
Mean 71.91
Std Dev 62.62

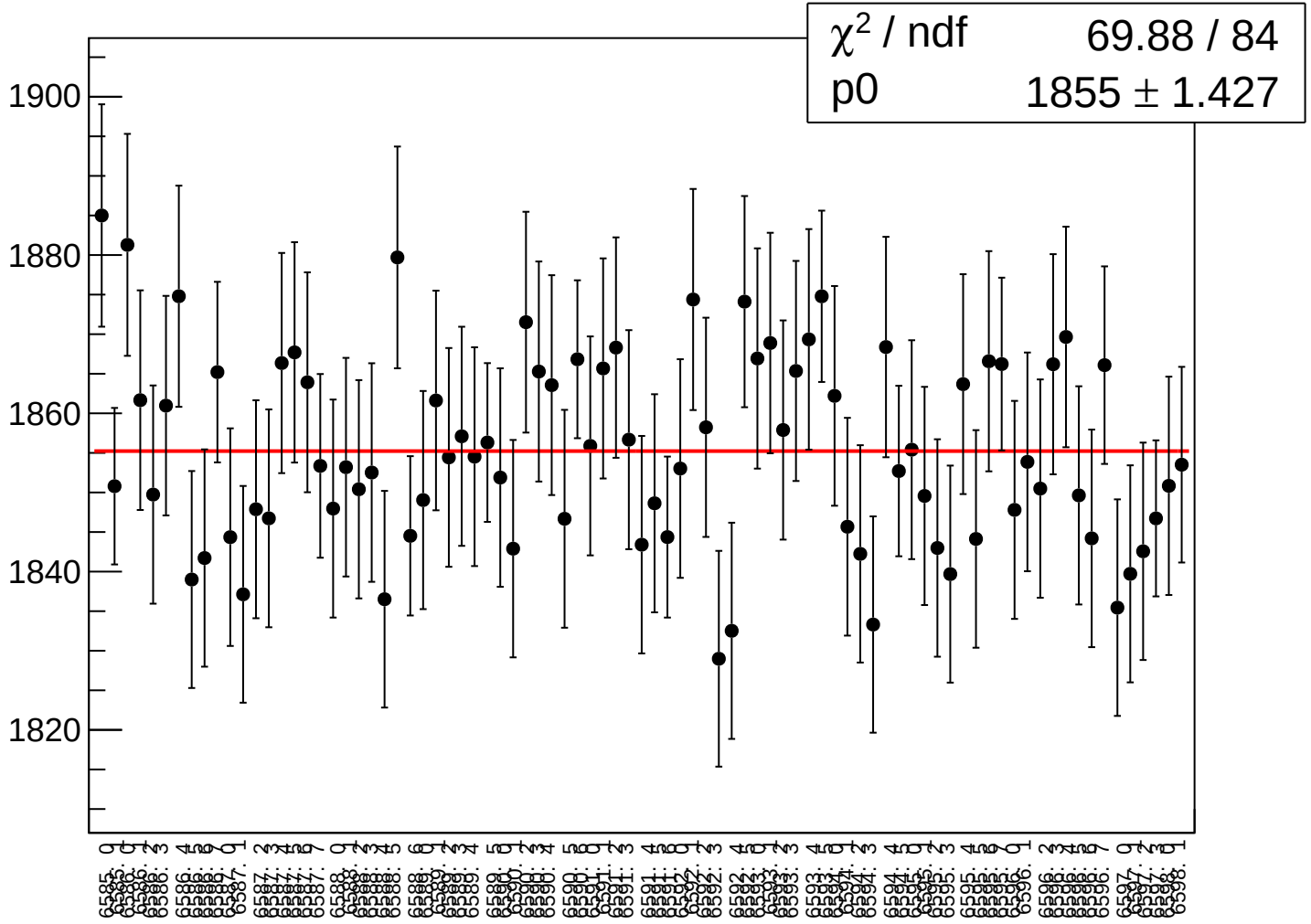

pull1D
Entries 85
Mean 0.0158
Std Dev 1.022

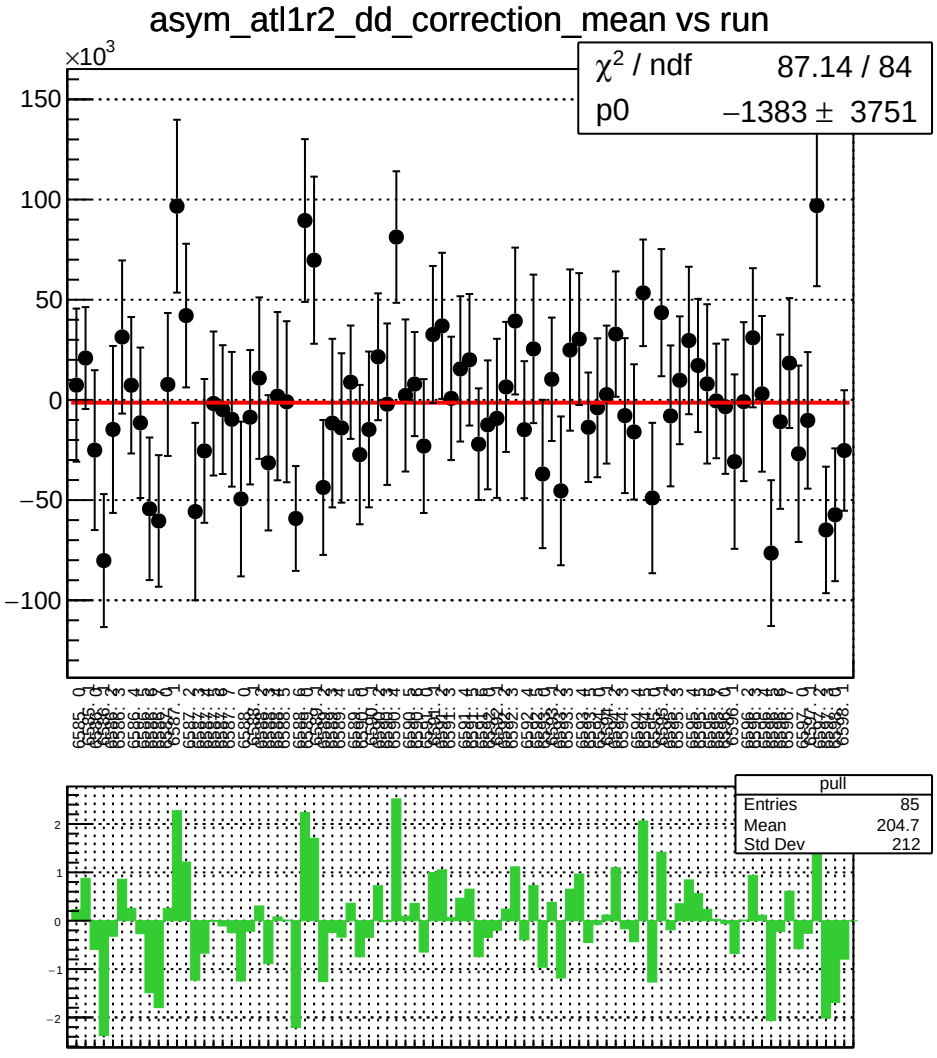
asym_atl1r2_avg_rms vs run

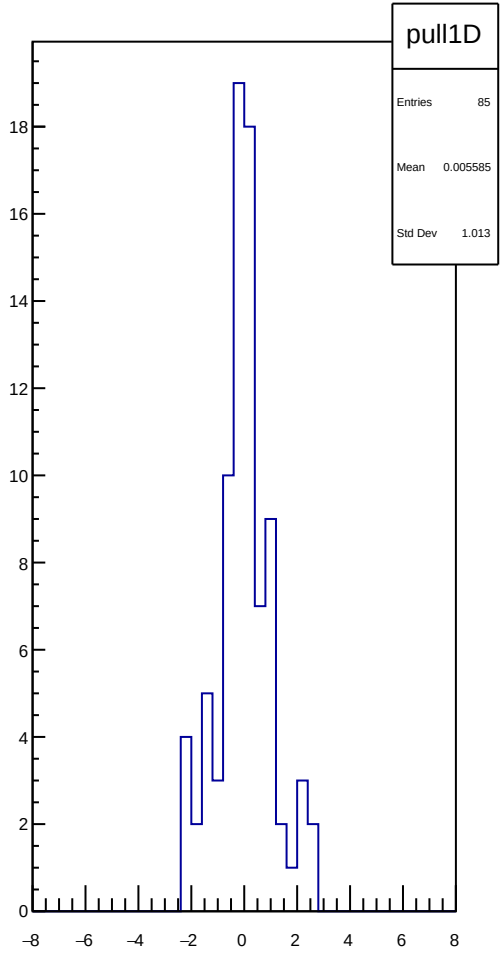



reg_asym_atl1r2_dd_mean vs run
χ² / ndf 74.23 / 84
p0 2916 ± 2019
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 581.2
Std Dev 542.3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005109
Std Dev 0.9345
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

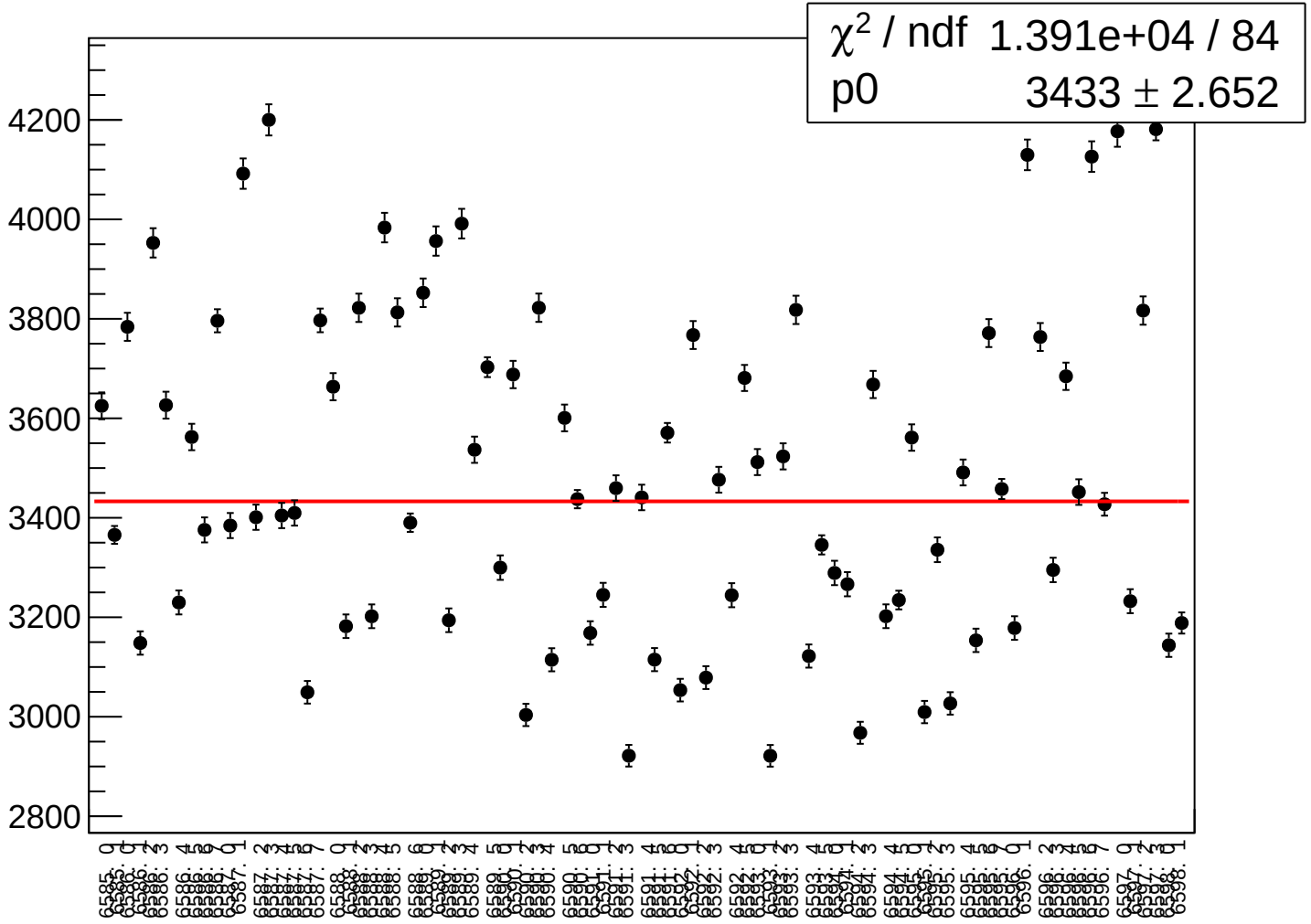
reg_asym_atl1r2_dd_rms vs run

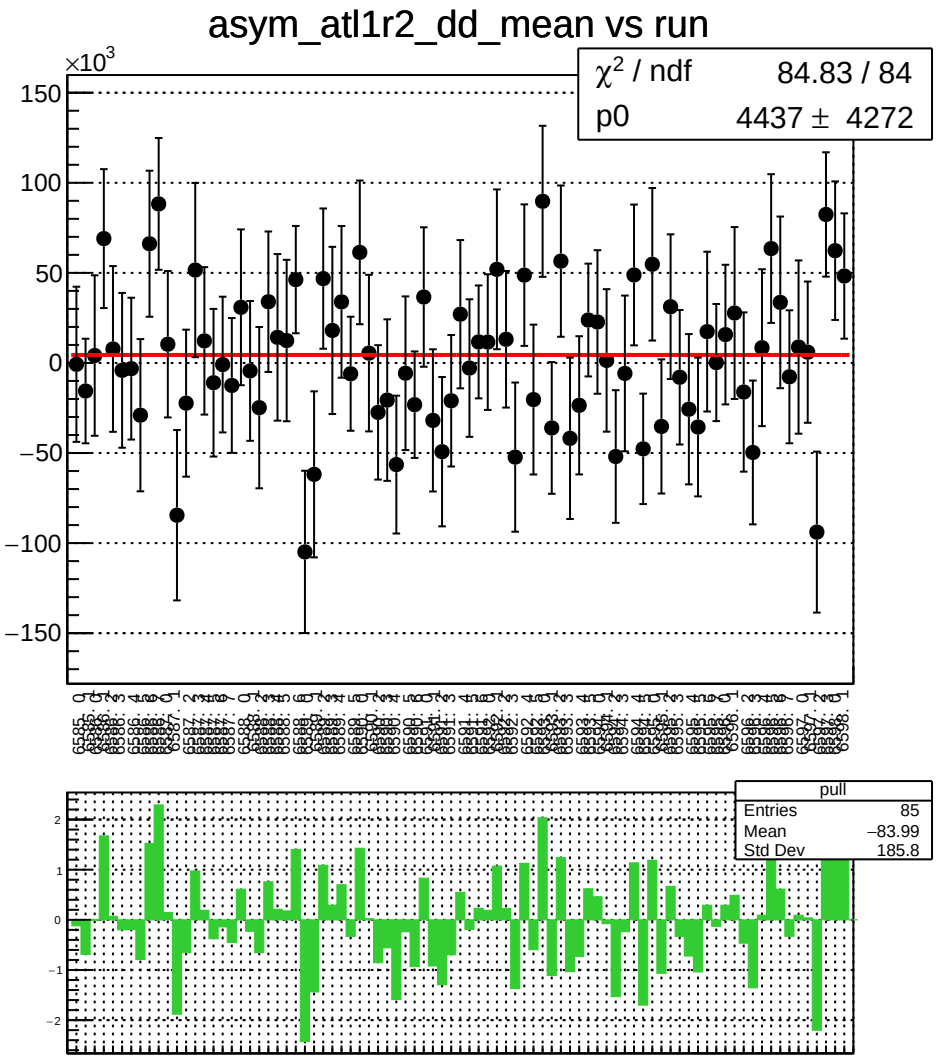


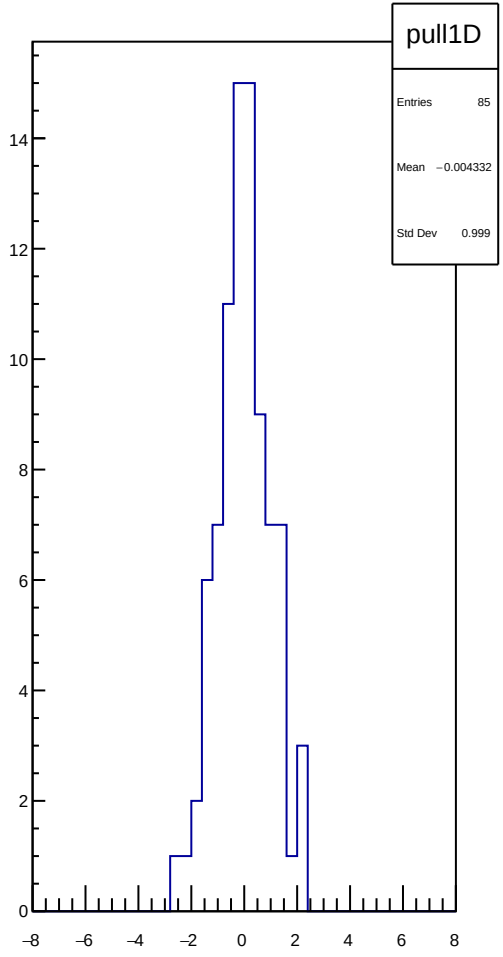

asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 87.14 / 84
p0 −1383 ± 3751
pull
Entries 85
Mean 204.7
Std Dev 212


pull1D
Entries 85
Mean 0.005585
Std Dev 1.013

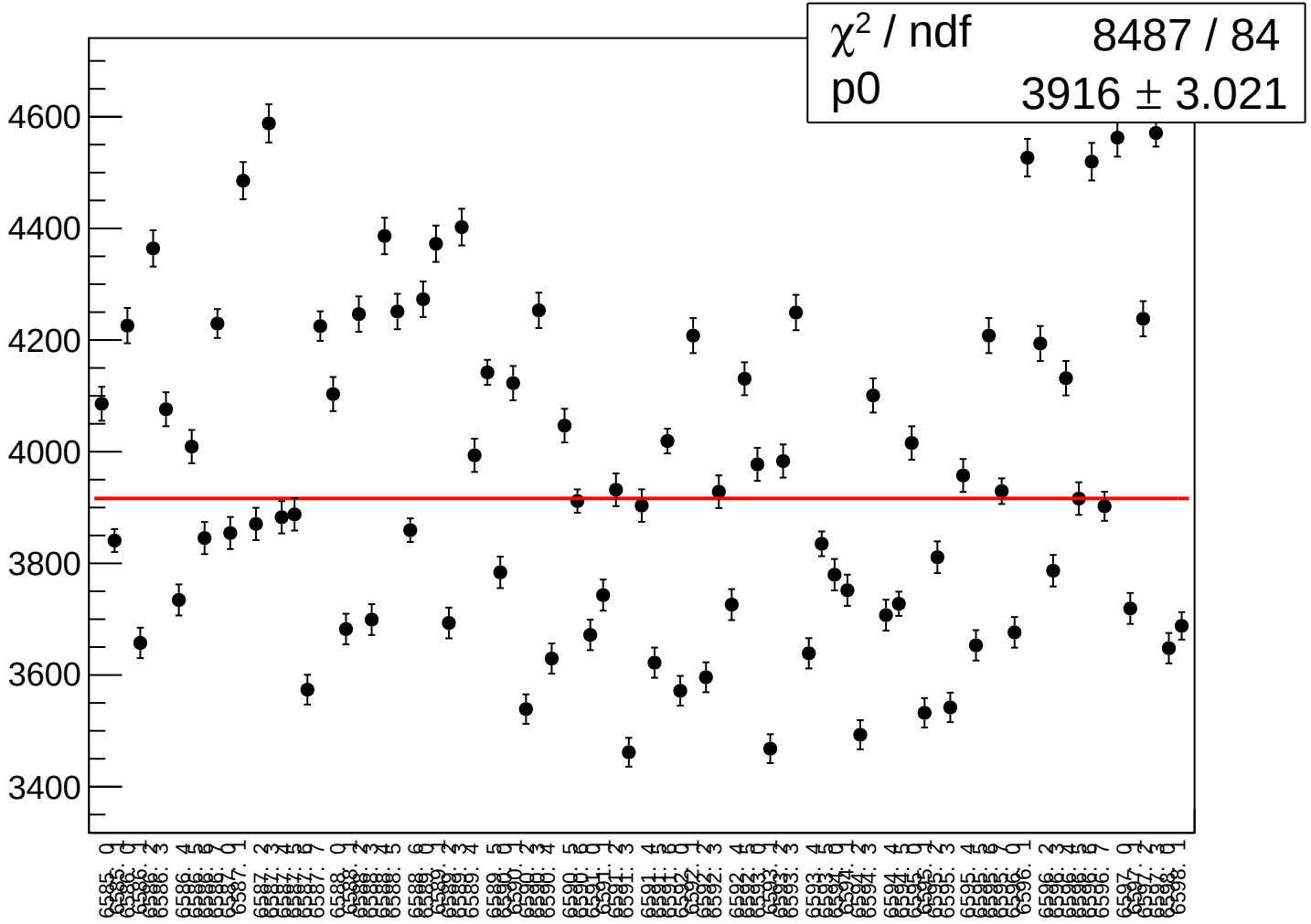
asym_atl1r2_dd_correction_rms vs run

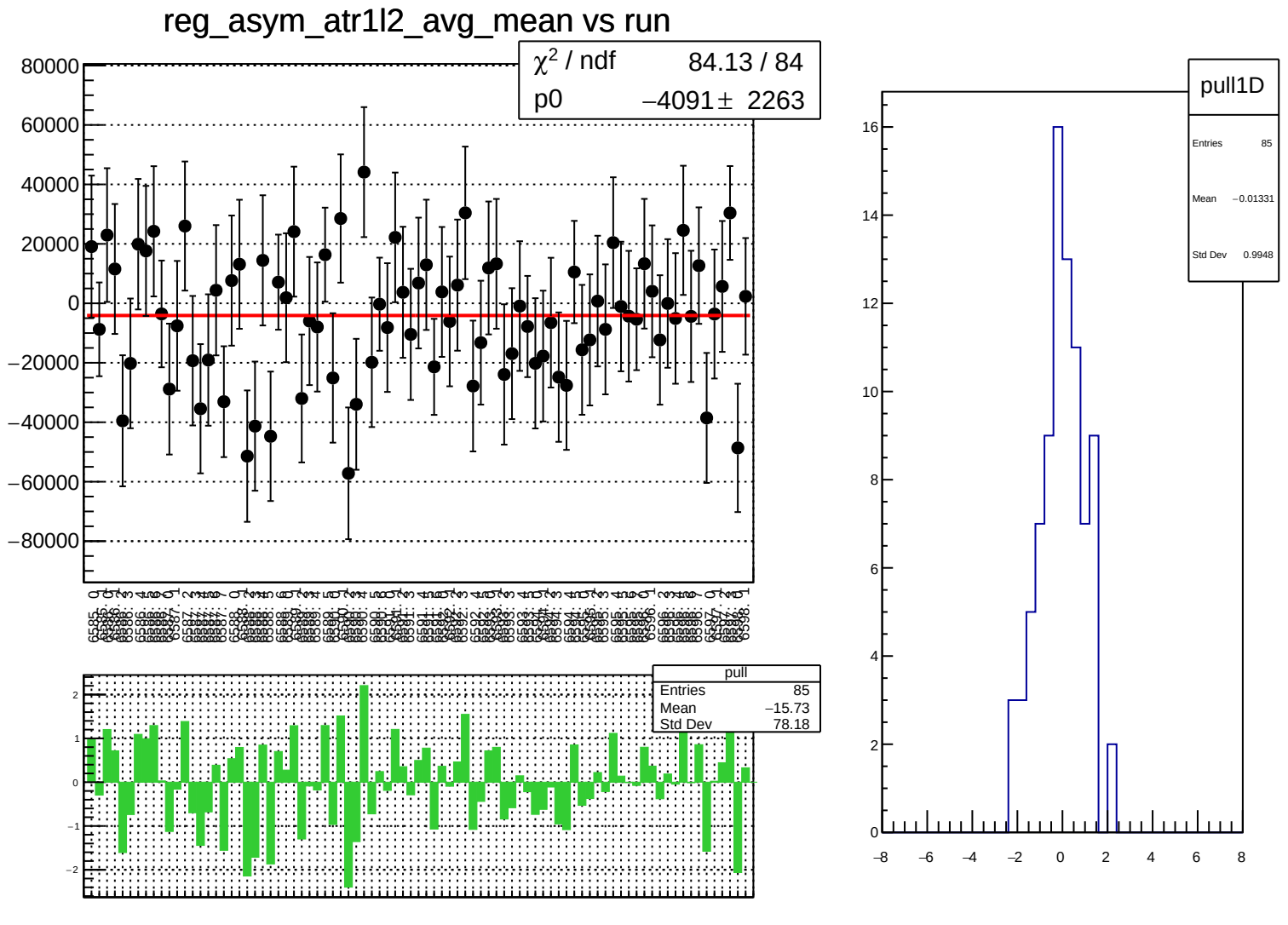



asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 84.83 / 84
p0 4437 ± 4272
pull
Entries 85
Mean −83.99
Std Dev 185.8

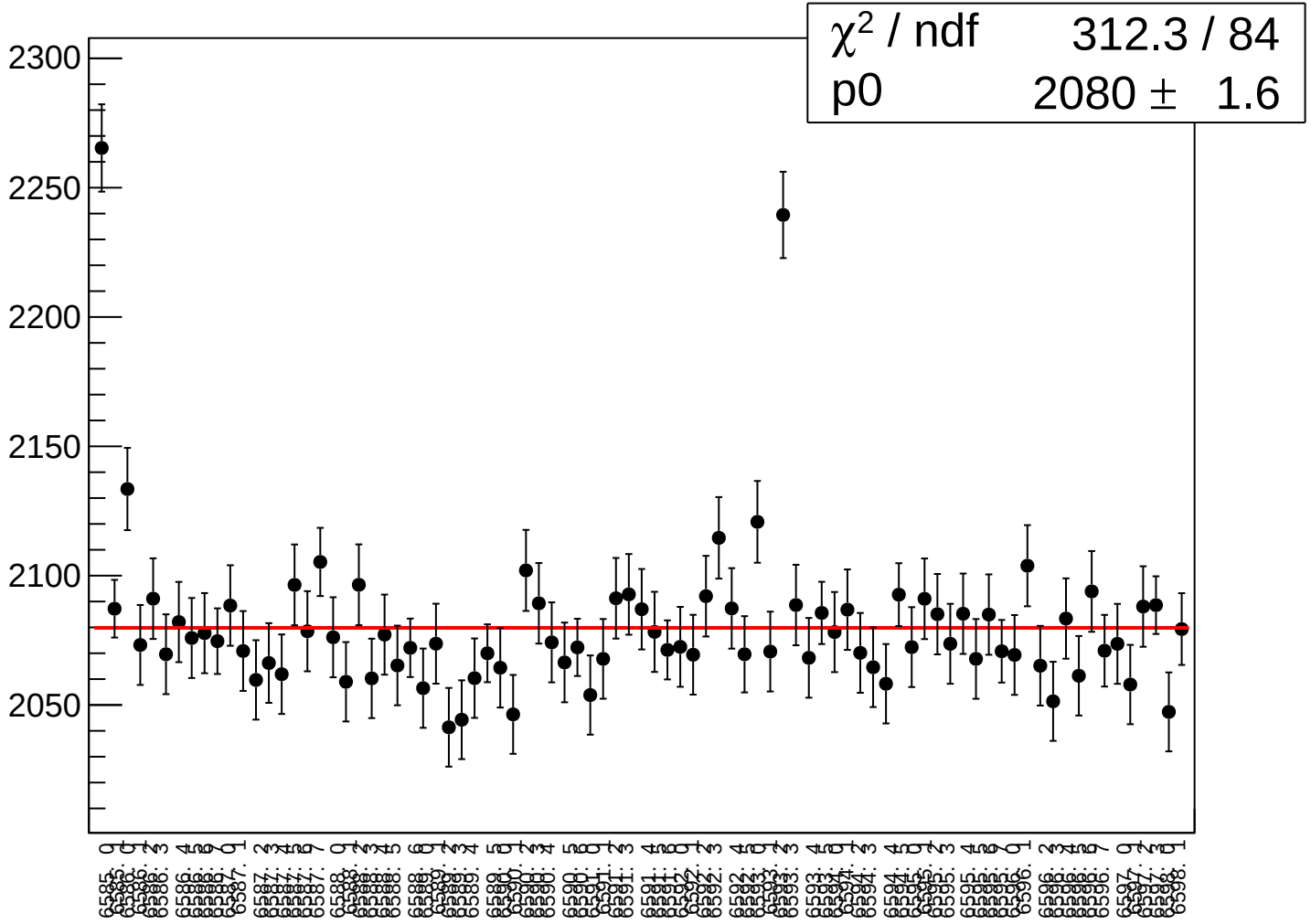

pull1D
Entries 85
Mean −0.004332
Std Dev 0.999

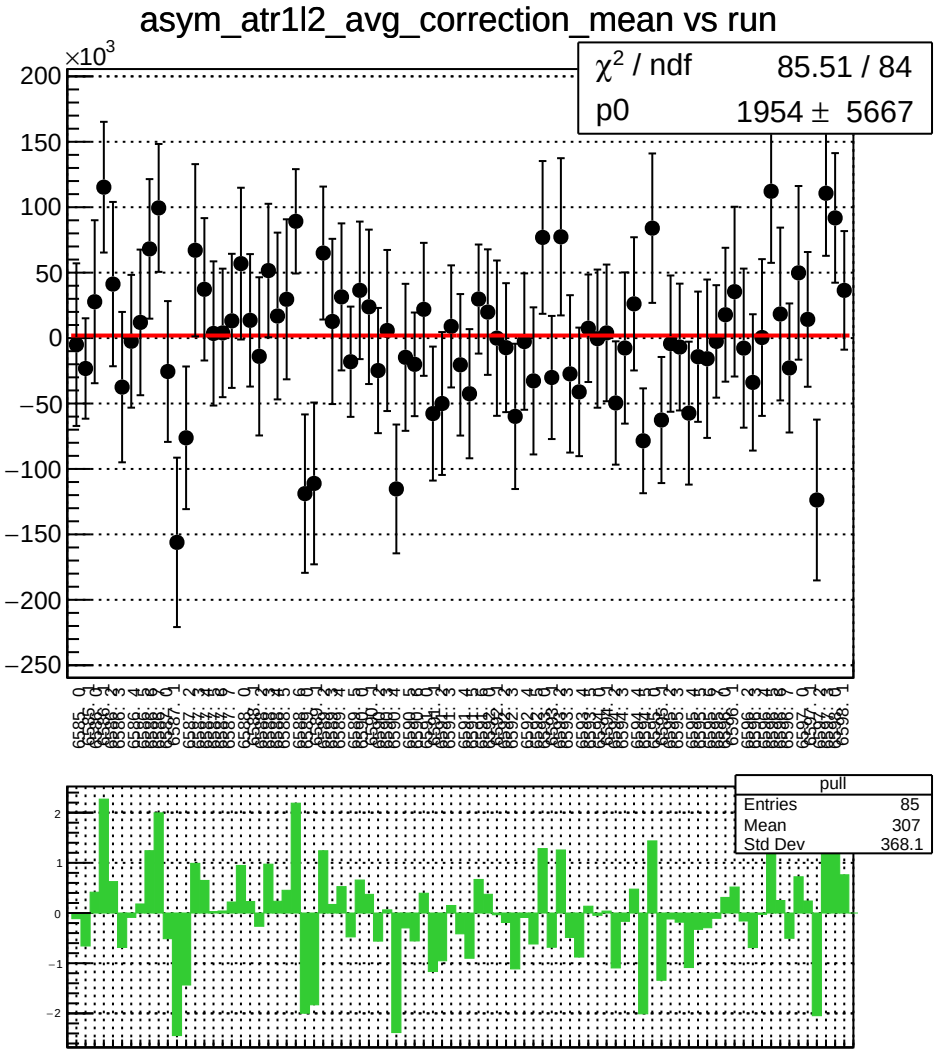
asym_atl1r2_dd_rms vs run

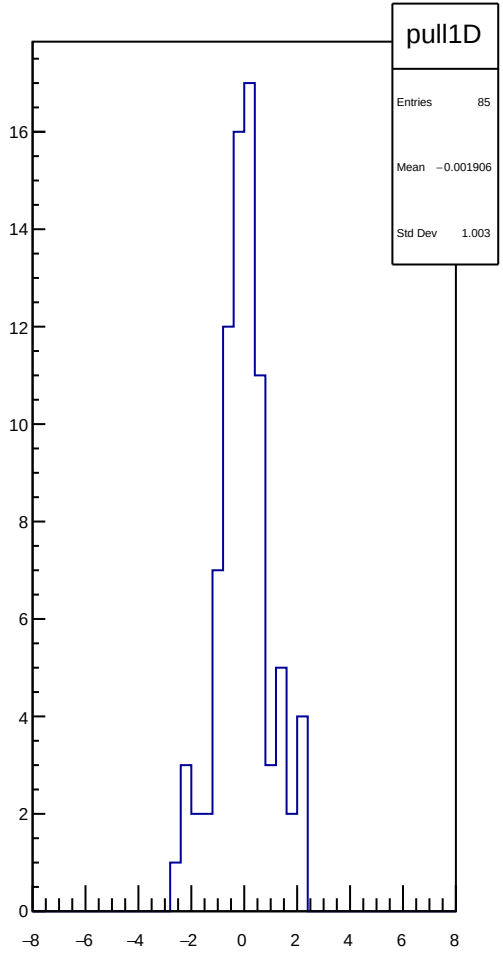



reg_asym_atr1l2_avg_mean vs run
χ² / ndf 84.13 / 84
p0 −4091 ± 2263
pull
Entries 85
Mean −15.73
Std Dev 78.18
pull1D
Entries 85
Mean −0.01331
Std Dev 0.9948

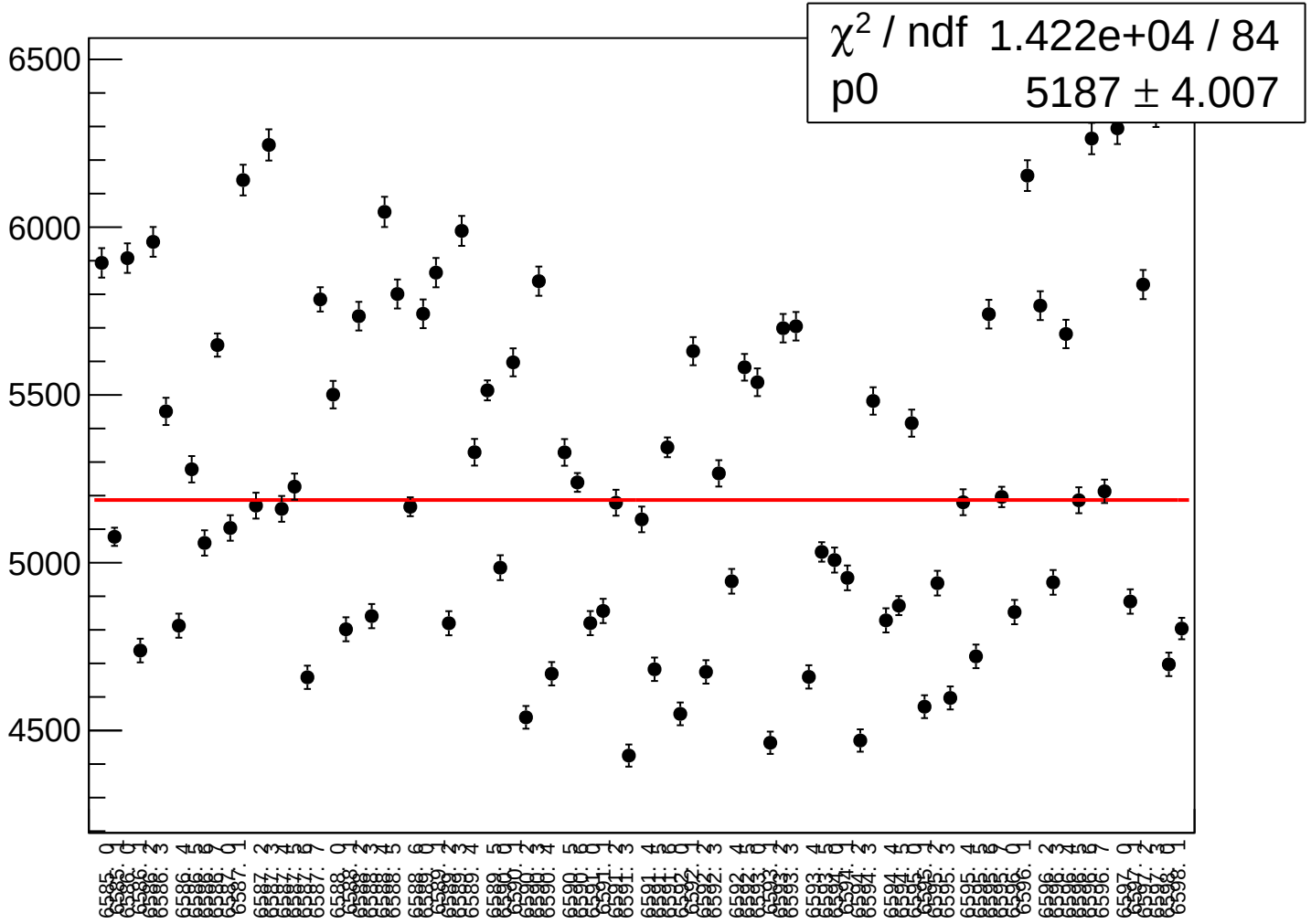
reg_asym_atr1l2_avg_rms vs run

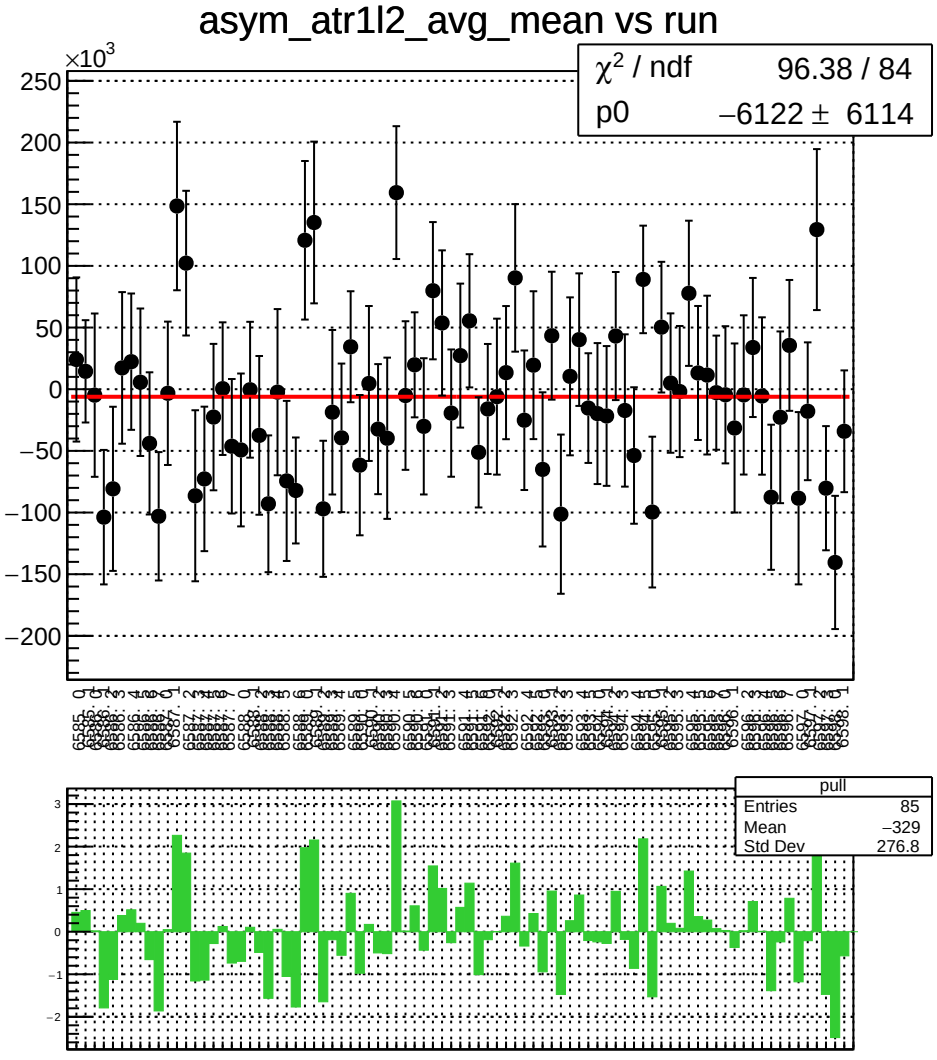


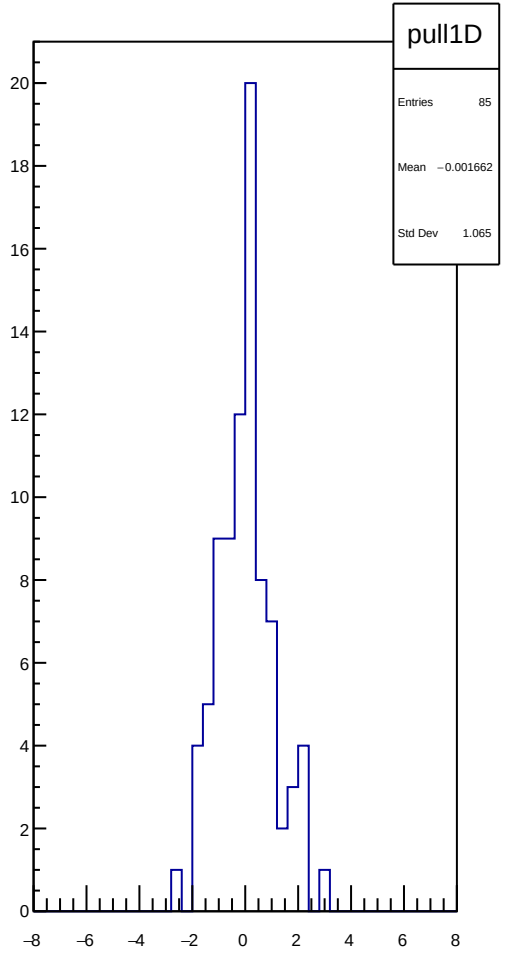

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 85.51 / 84
p0 1954 ± 5667
pull
Entries 85
Mean 307
Std Dev 368.1


pull1D
Entries 85
Mean −0.001906
Std Dev 1.003

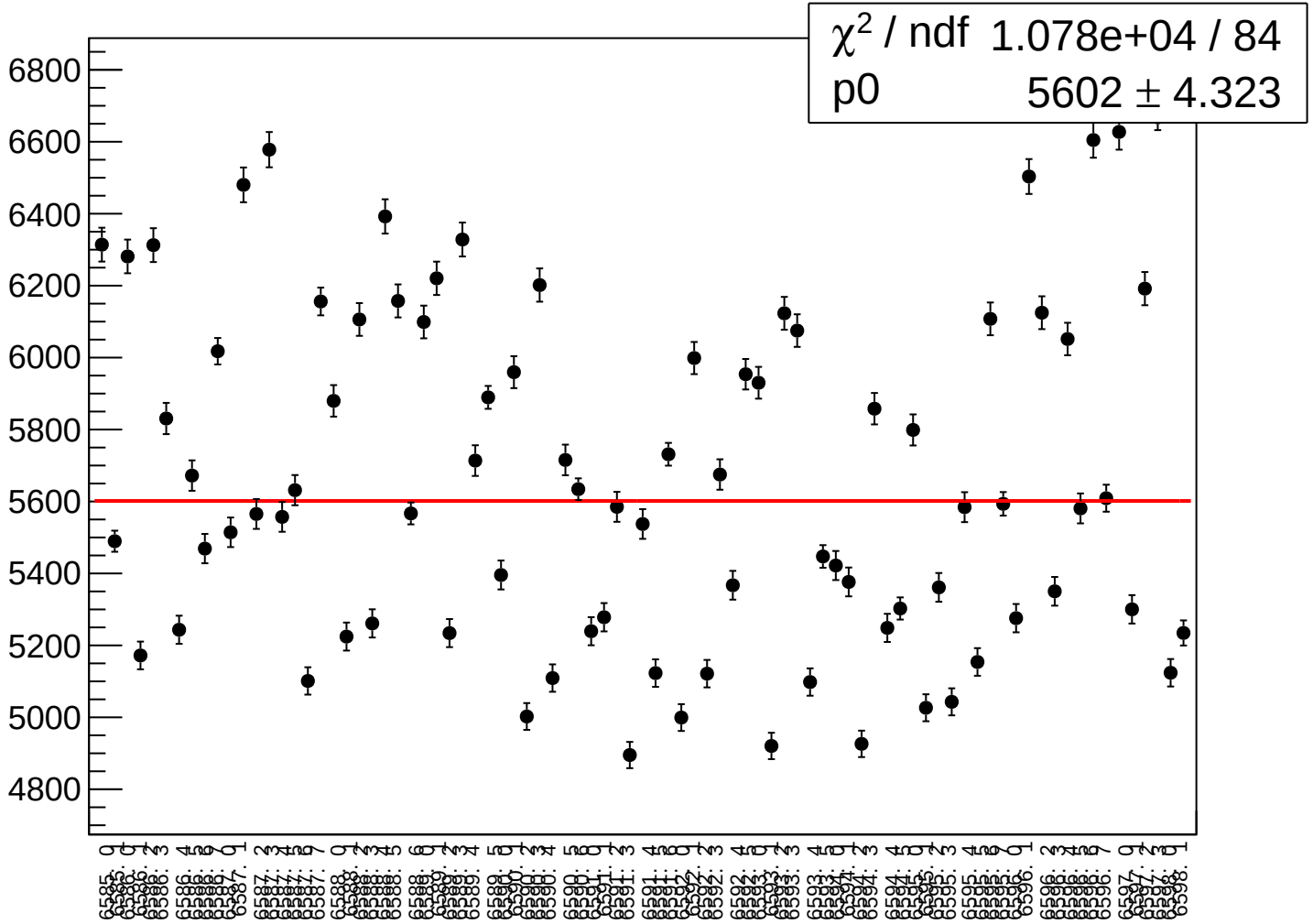
asym_atr1l2_avg_correction_rms vs run

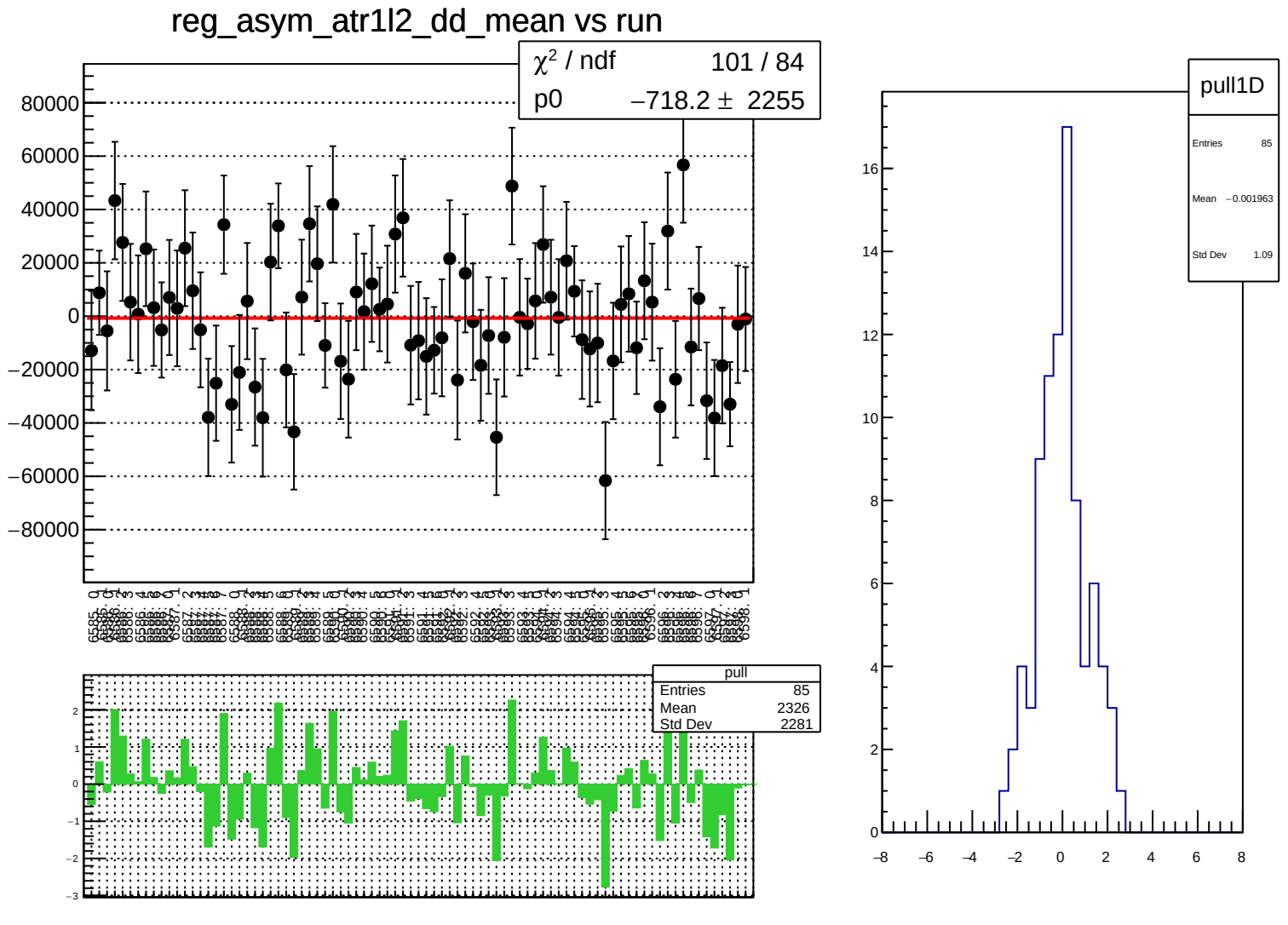



asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 96.38 / 84
p0 −6122 ± 6114
pull
Entries 85
Mean −329
Std Dev 276.8

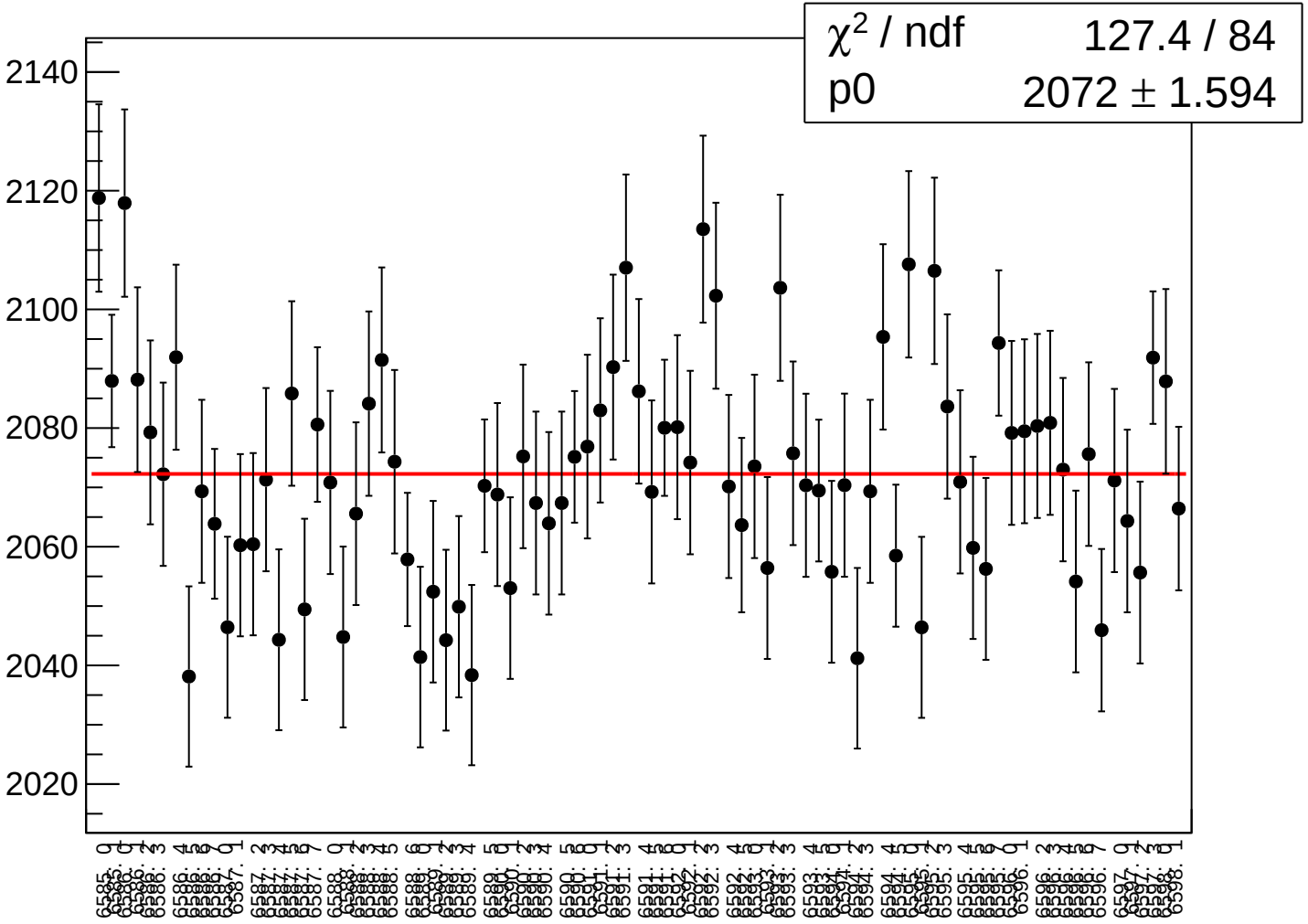

pull1D
Entries 85
Mean −0.001662
Std Dev 1.065

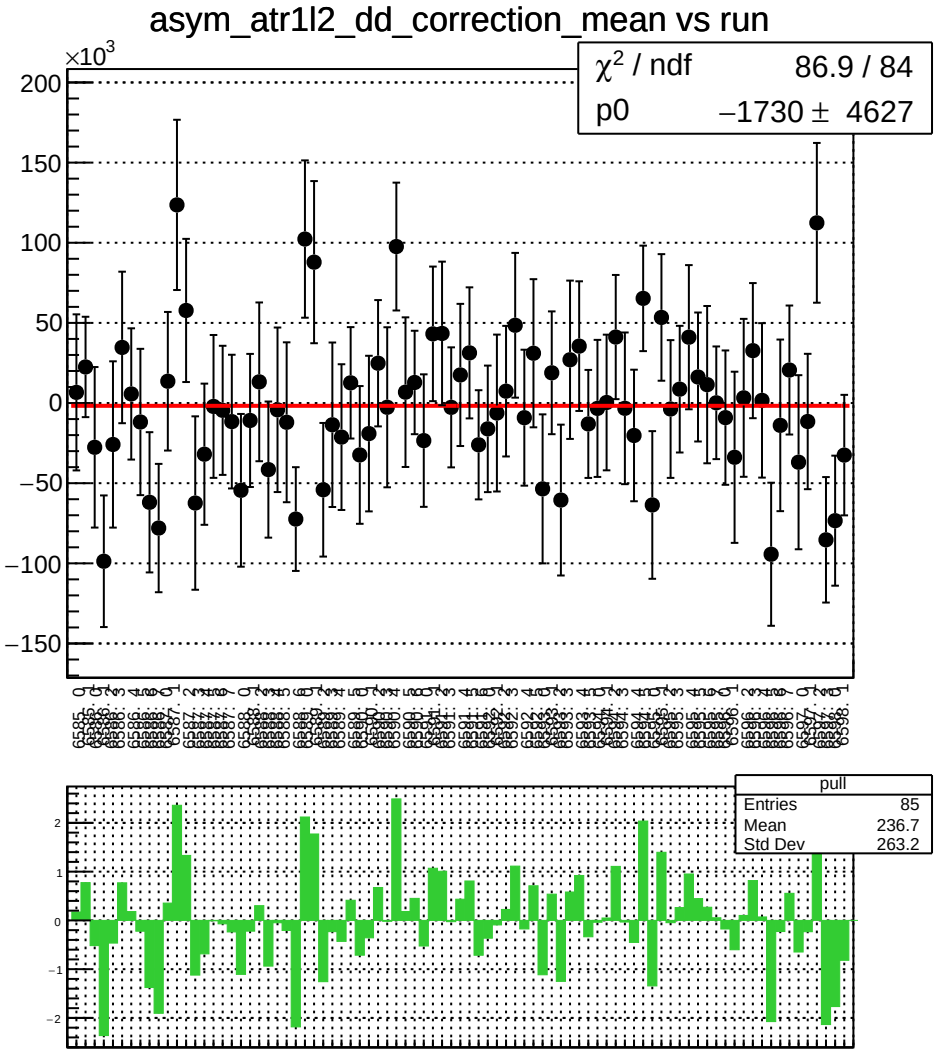
asym_atr1l2_avg_rms vs run

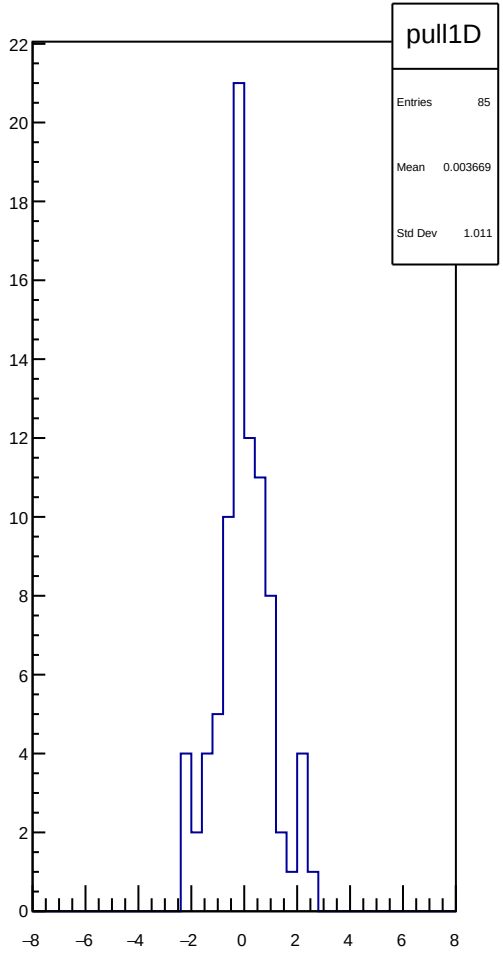



reg_asym_atr1l2_dd_mean vs run
χ² / ndf 101 / 84
p0 −718.2 ± 2255
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 2326
Std Dev 2281
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.001963
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

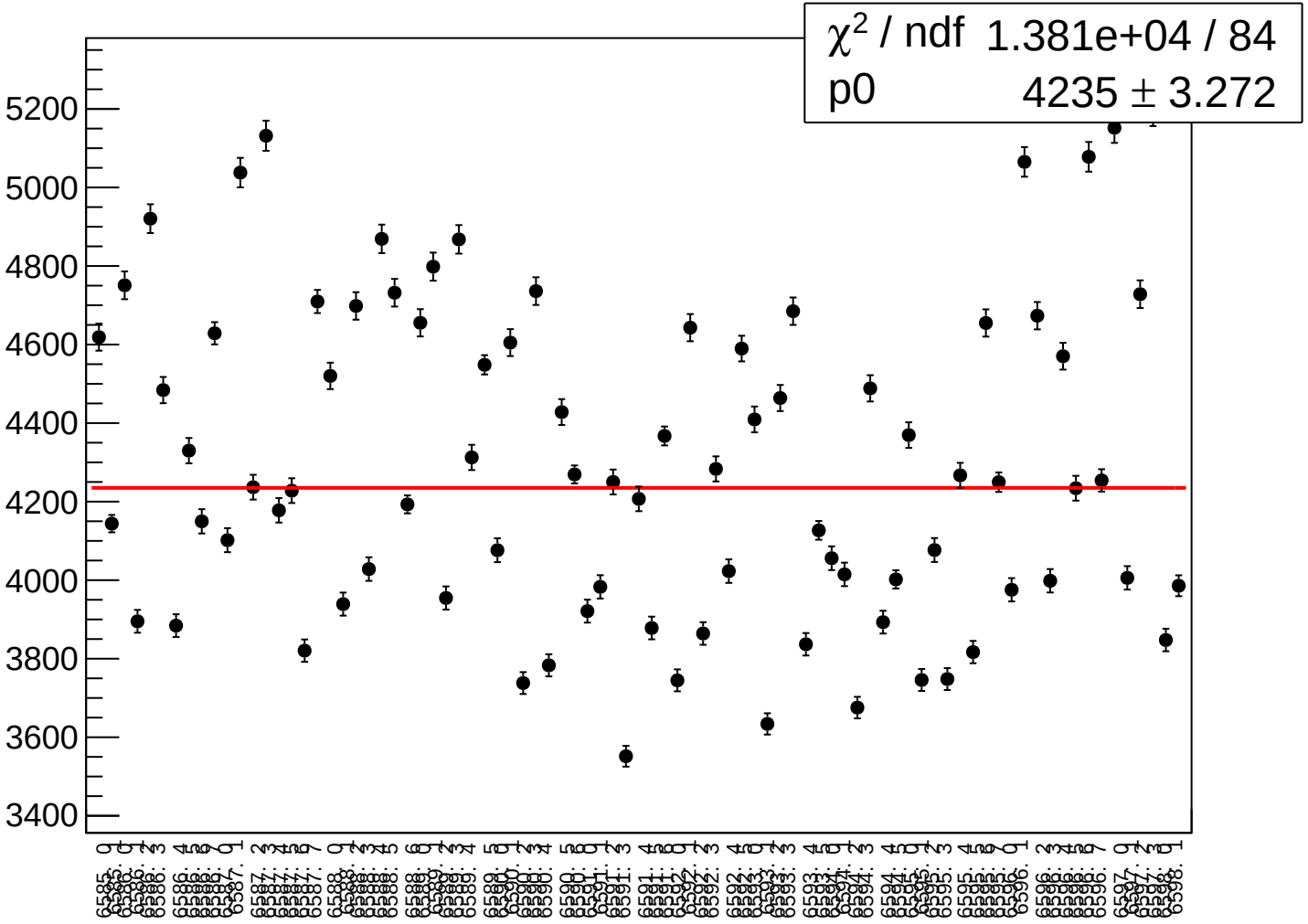
reg_asym_atr1l2_dd_rms vs run

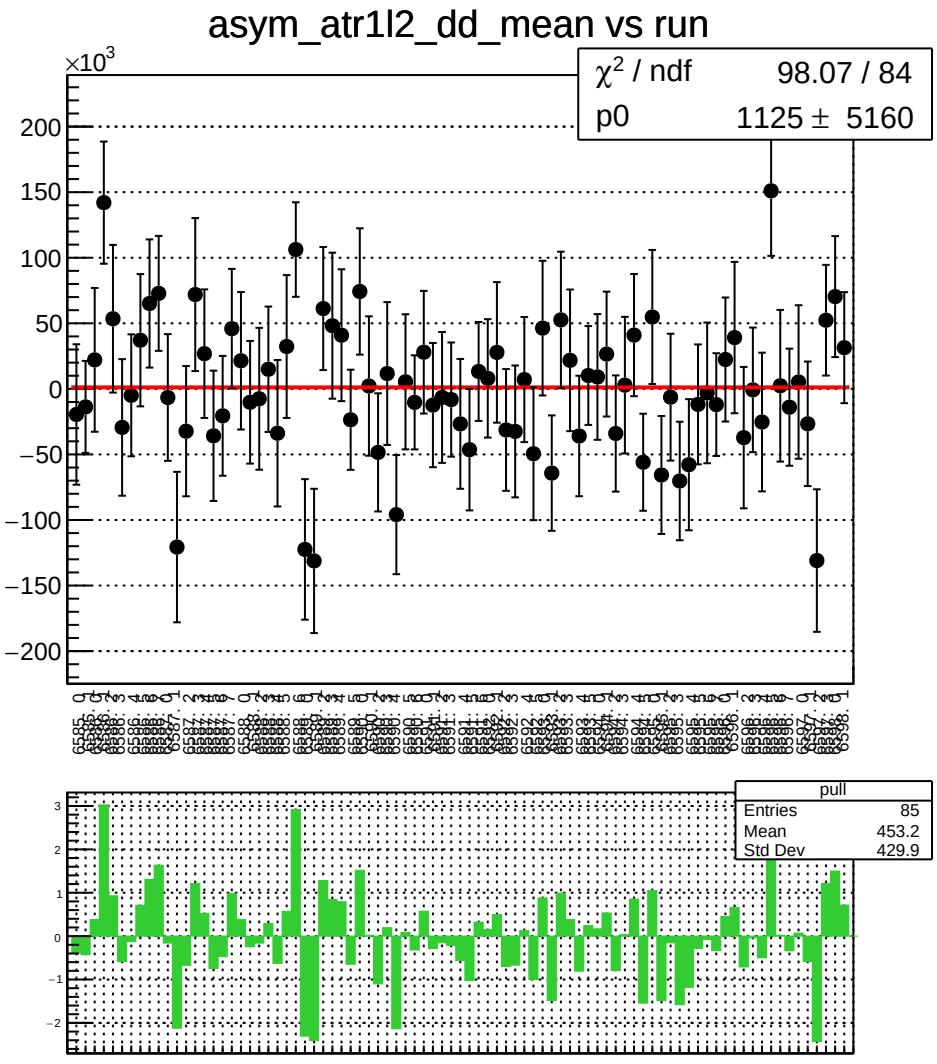


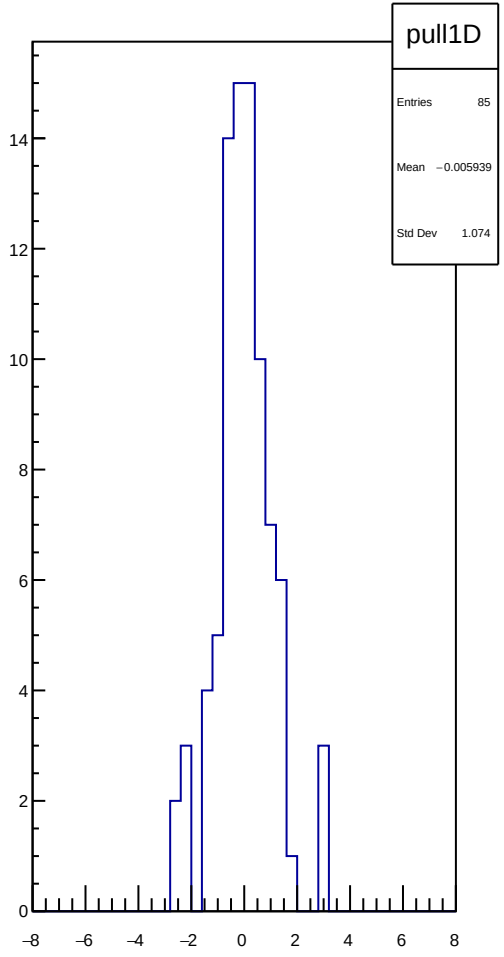

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 86.9 / 84
p0 −1730 ± 4627
pull
Entries 85
Mean 236.7
Std Dev 263.2


pull1D
Entries 85
Mean 0.003669
Std Dev 1.011

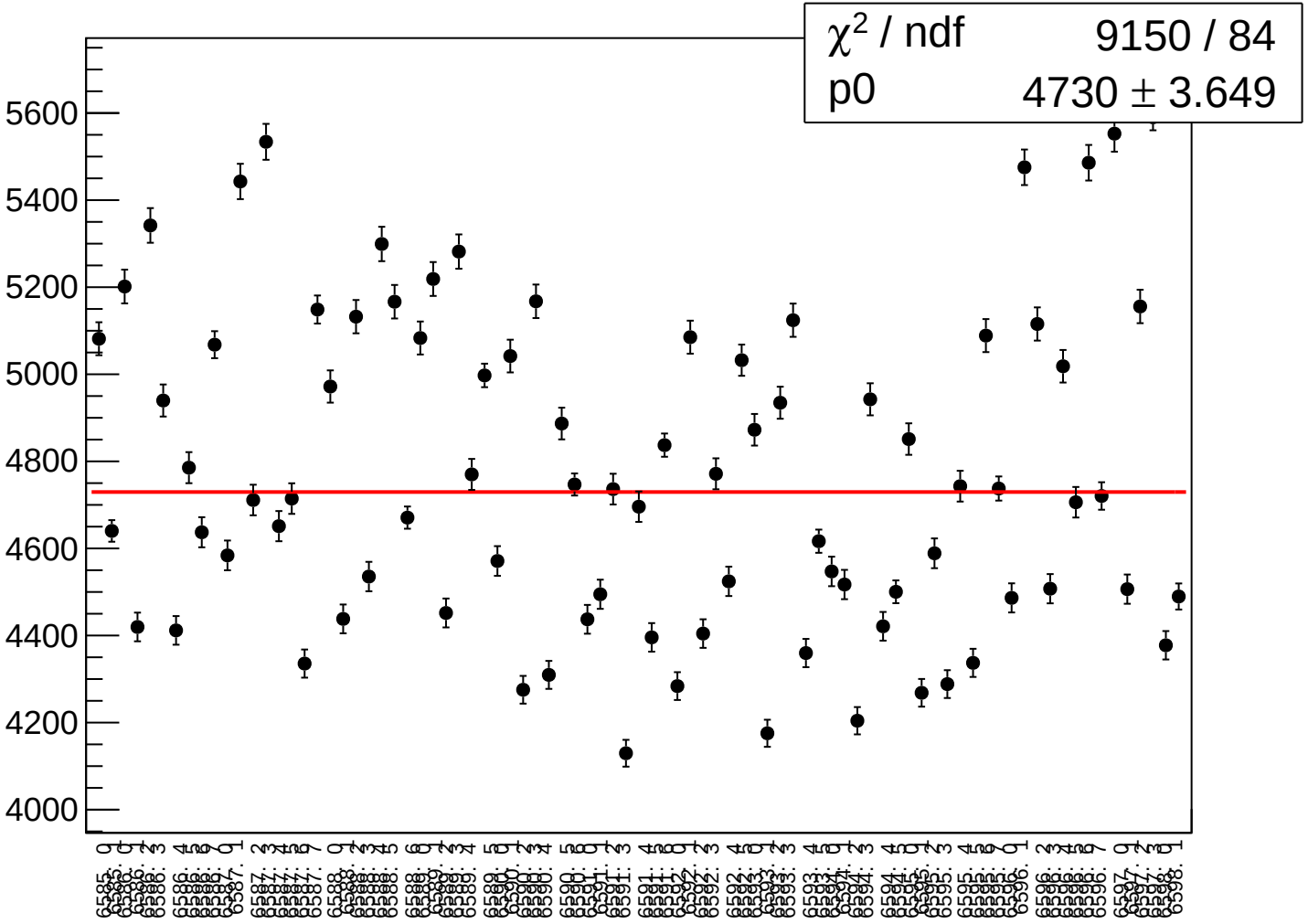
asym_atr1l2_dd_correction_rms vs run

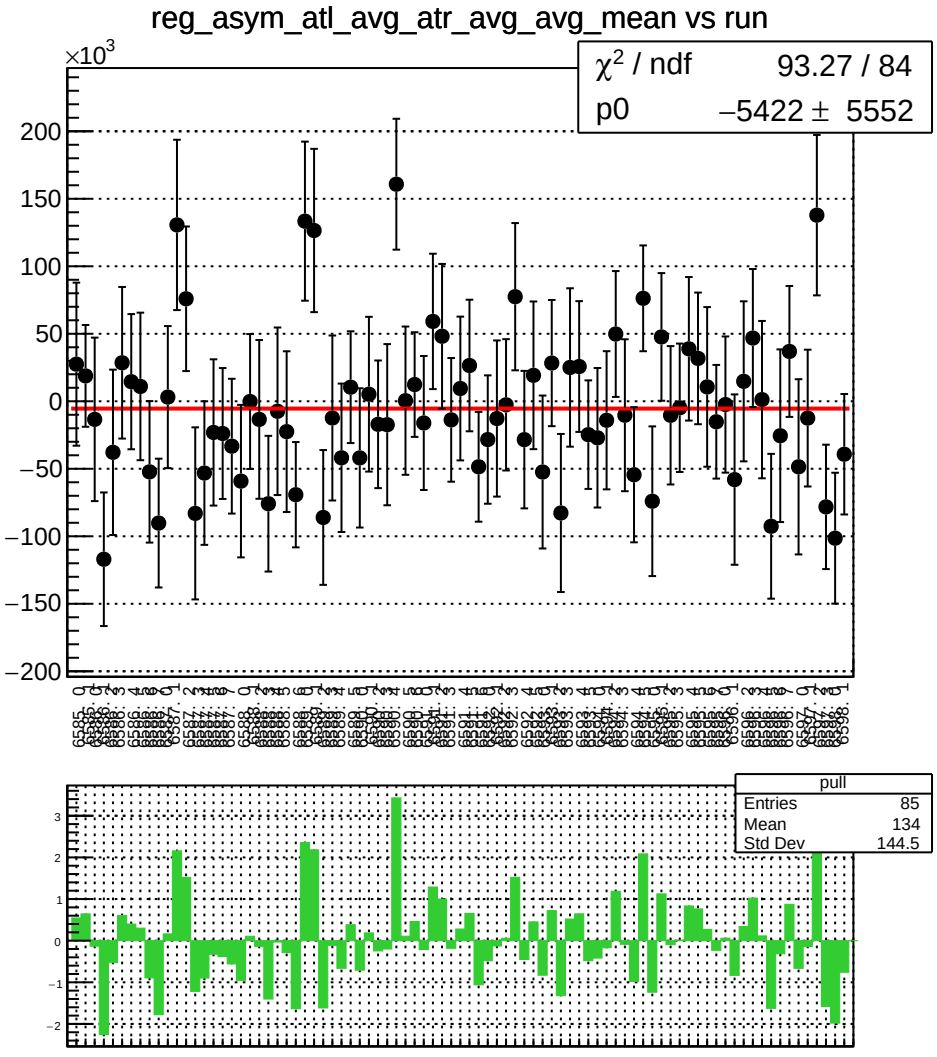


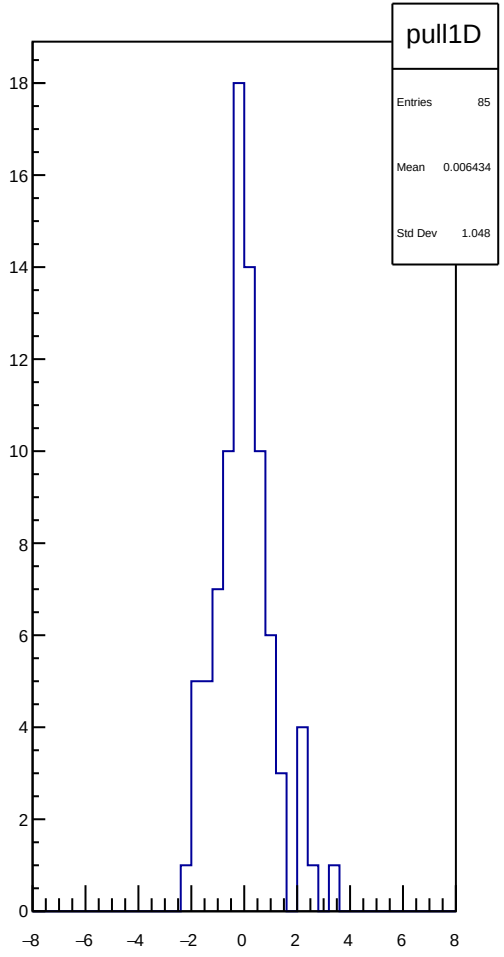

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 98.07 / 84
p0 1125 ± 5160
pull
Entries 85
Mean 453.2
Std Dev 429.9

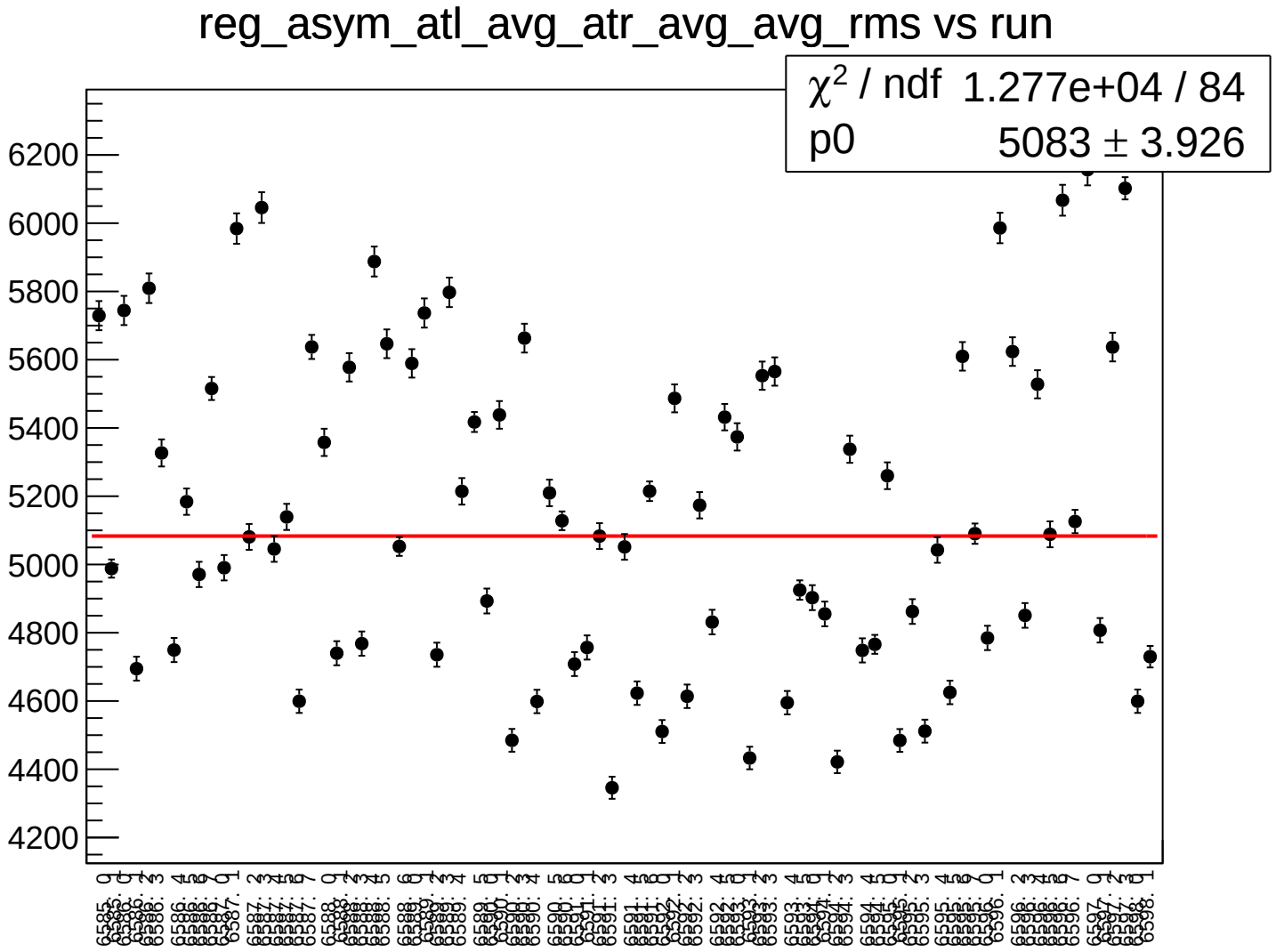

pull1D
Entries 85
Mean −0.005939
Std Dev 1.074

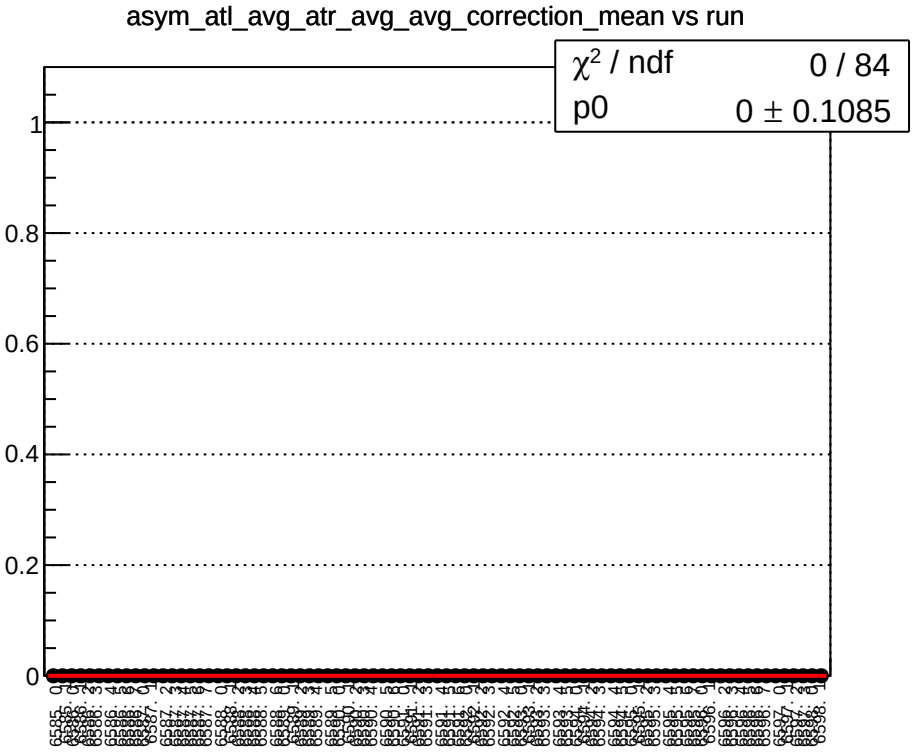
asym_atr1l2_dd_rms vs run

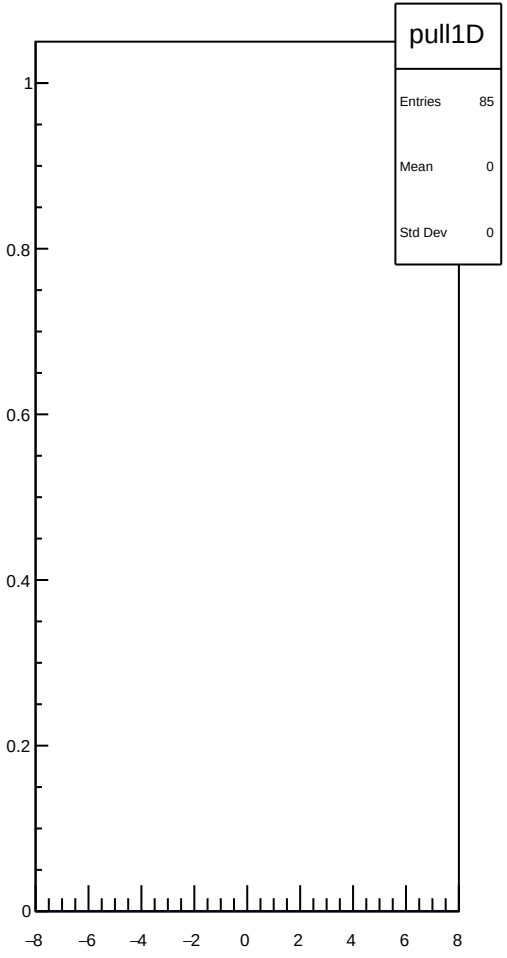



reg_asym_atl_avg_atr_avg_avg_mean vs run
χ^2 / ndf 93.27 / 84
p0 −5422 ± 5552
×10^3
pull
Entries 85
Mean 134
Std Dev 144.5

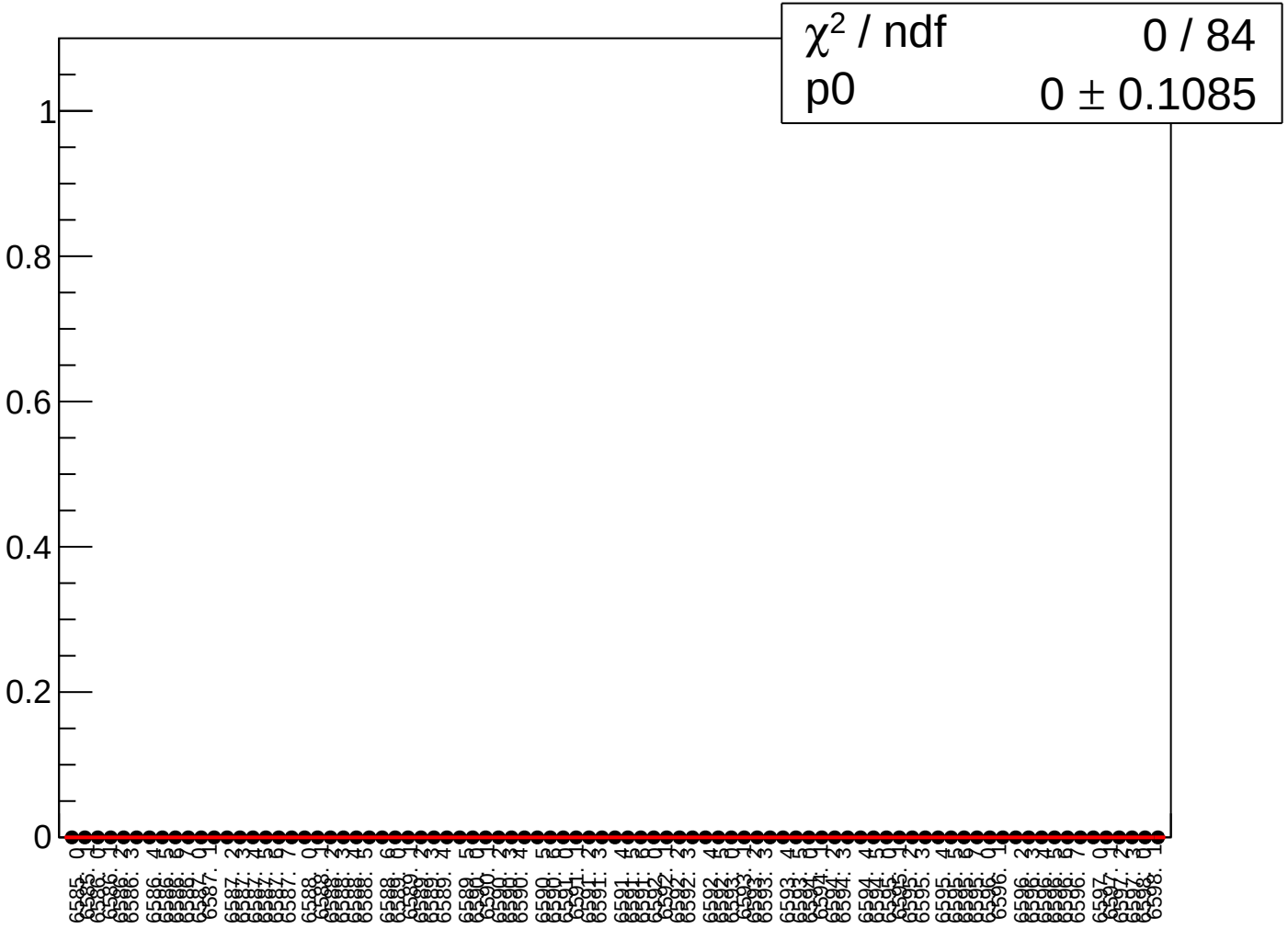

pull1D
Entries 85
Mean 0.006434
Std Dev 1.048

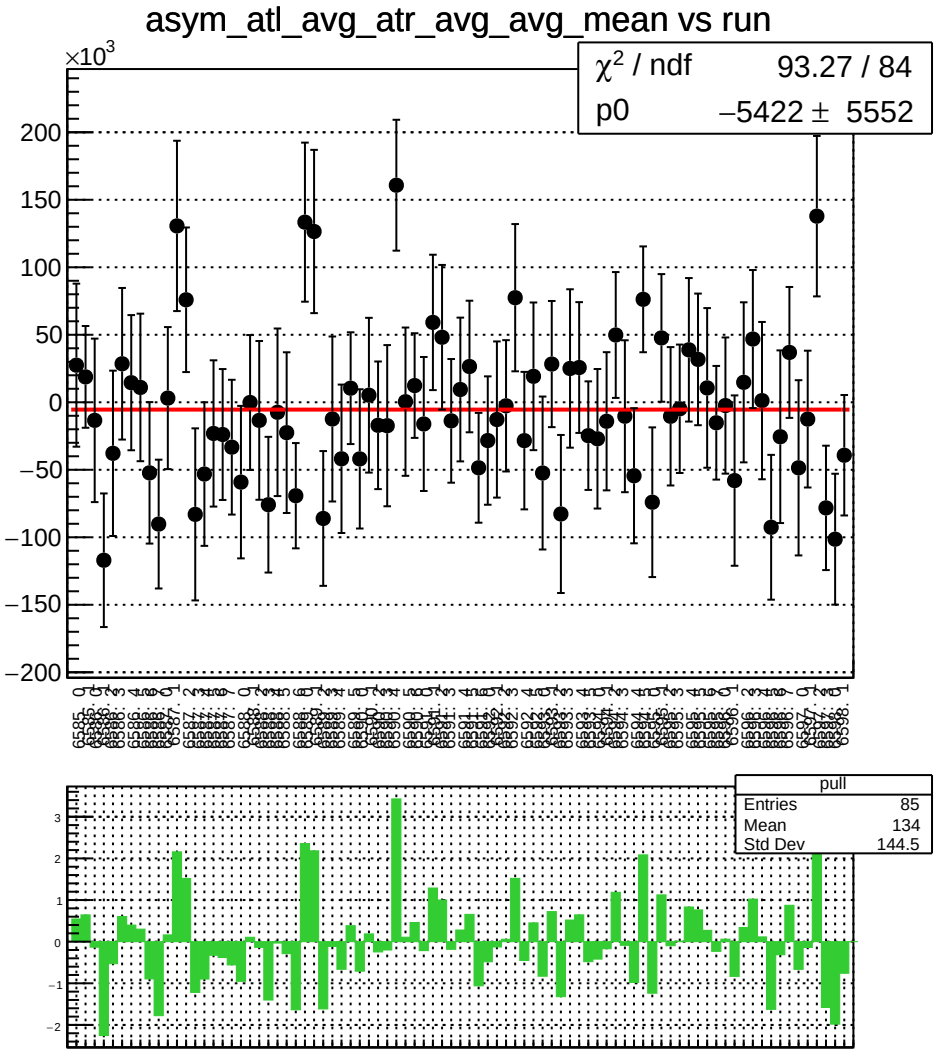

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.277e+04 / 84
p0 5083 ± 3.926
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

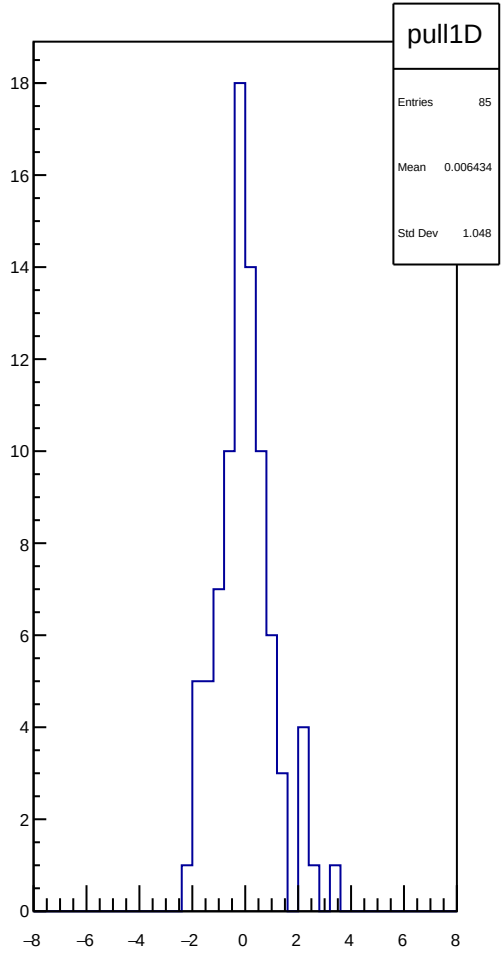

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ^2 / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

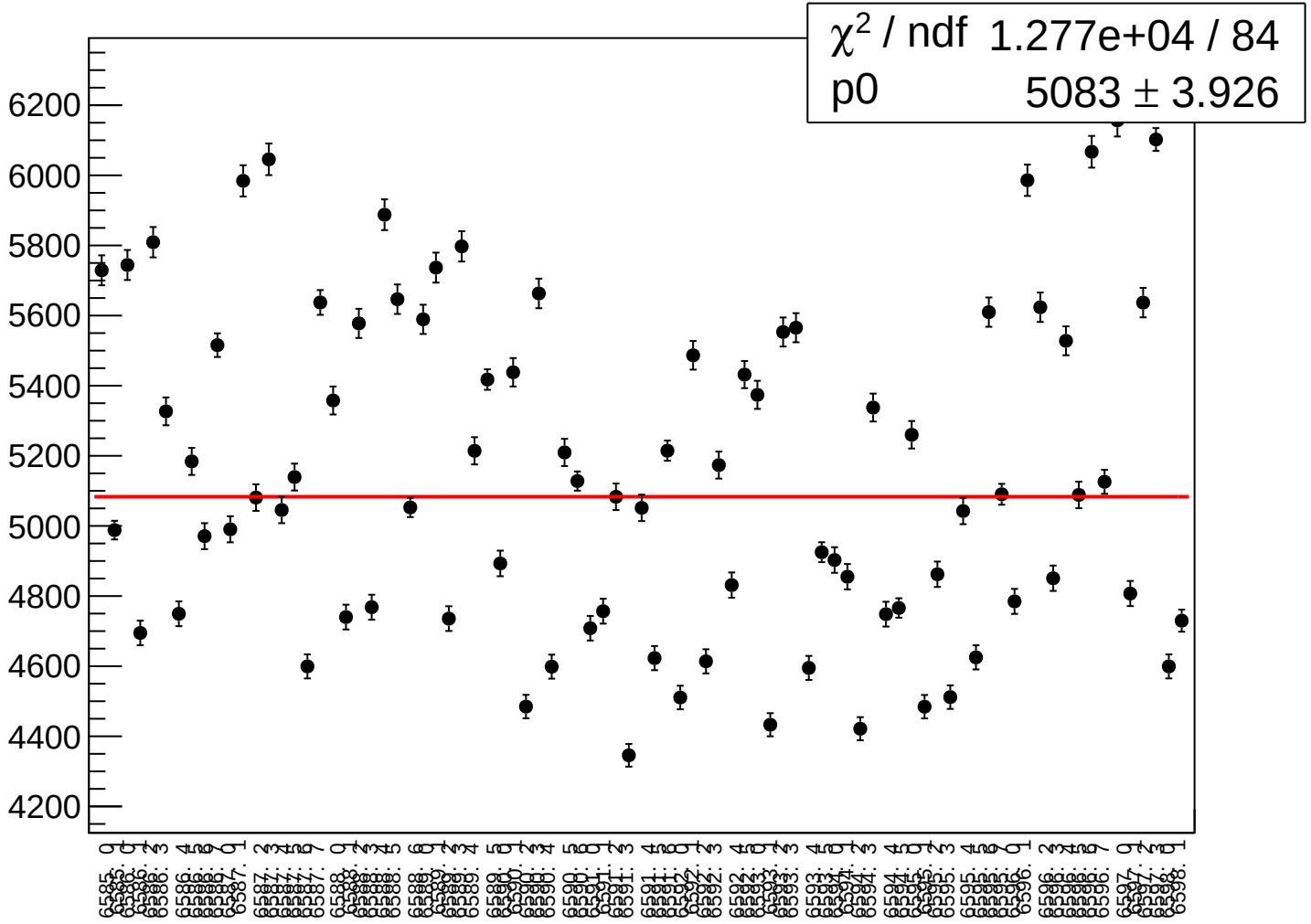
asym_atl_avg_atr_avg_avg_correction_rms vs run

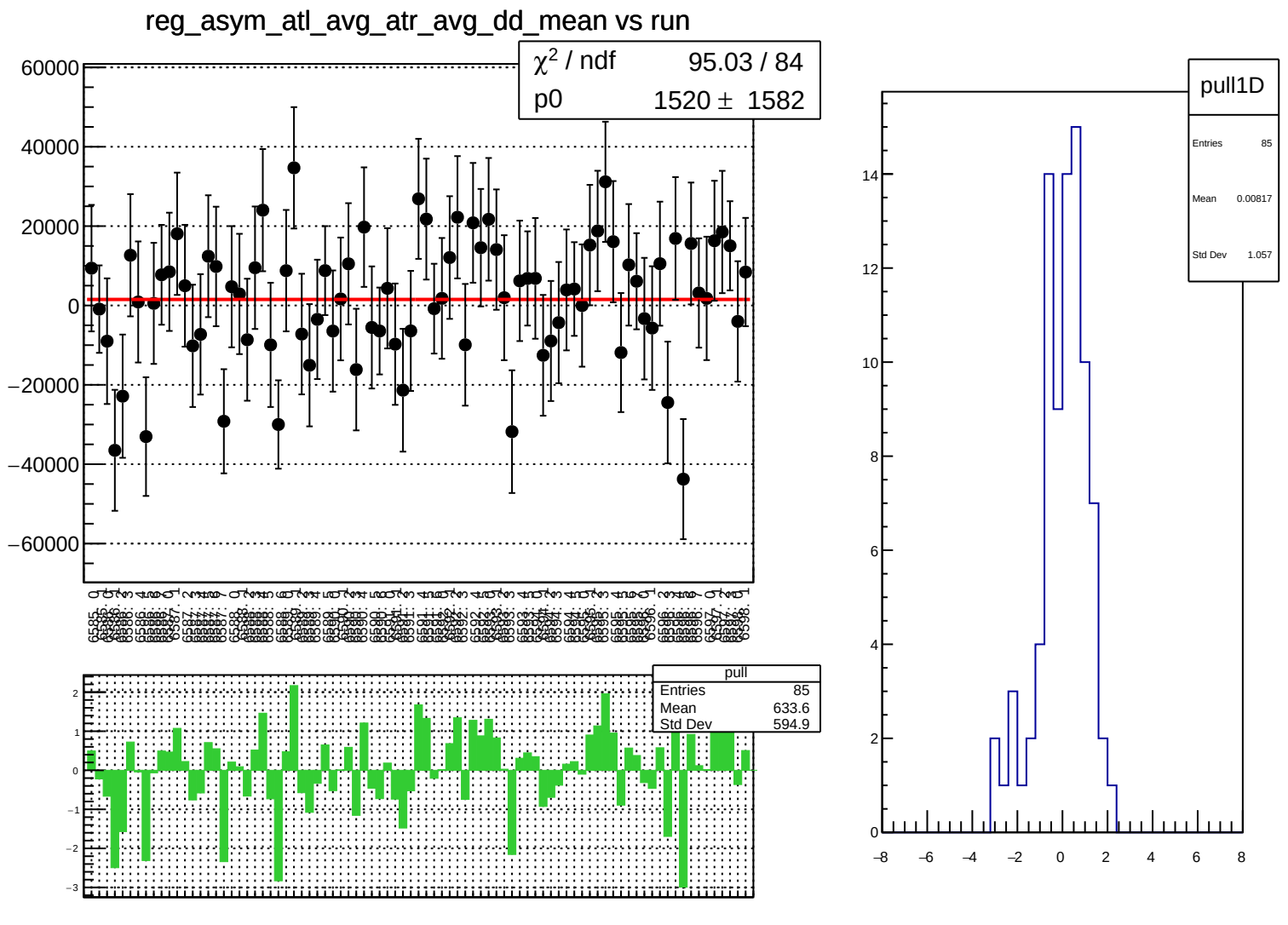



asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 93.27 / 84
p0 −5422 ± 5552
pull
Entries 85
Mean 134
Std Dev 144.5

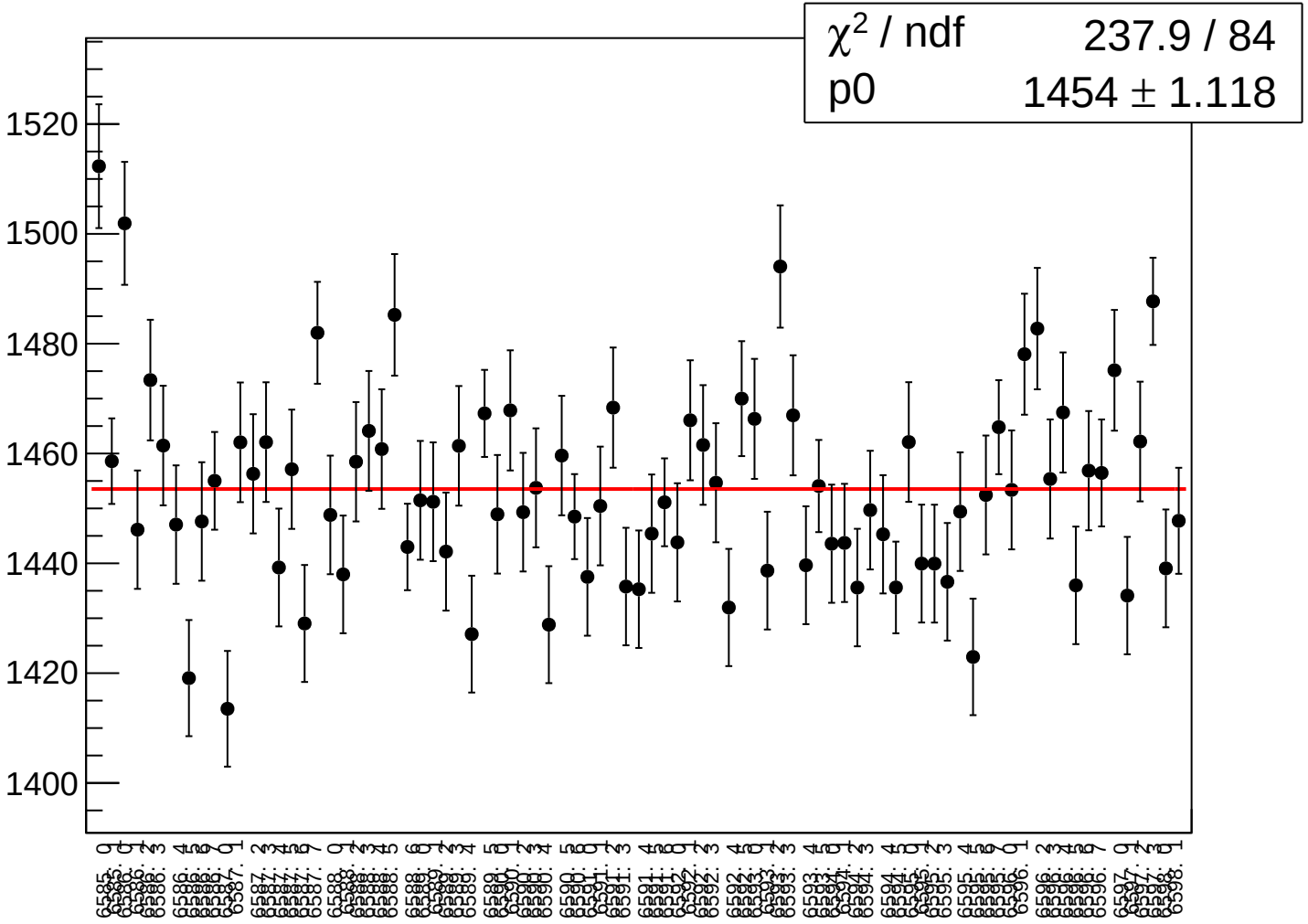

pull1D
Entries 85
Mean 0.006434
Std Dev 1.048

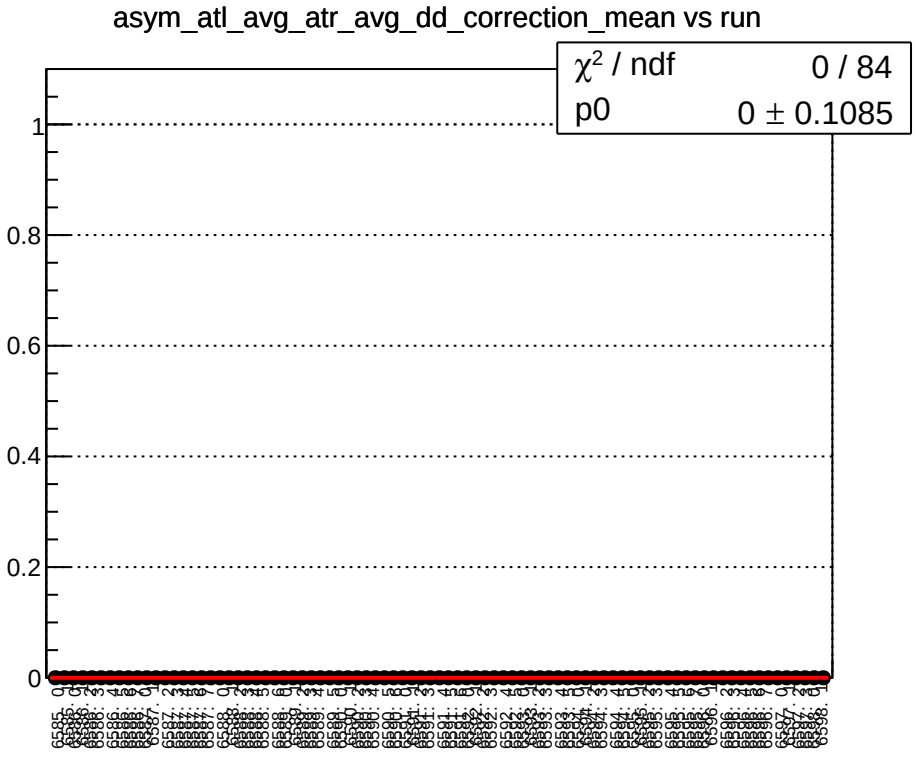
asym_atl_avg_atr_avg_avg_rms vs run

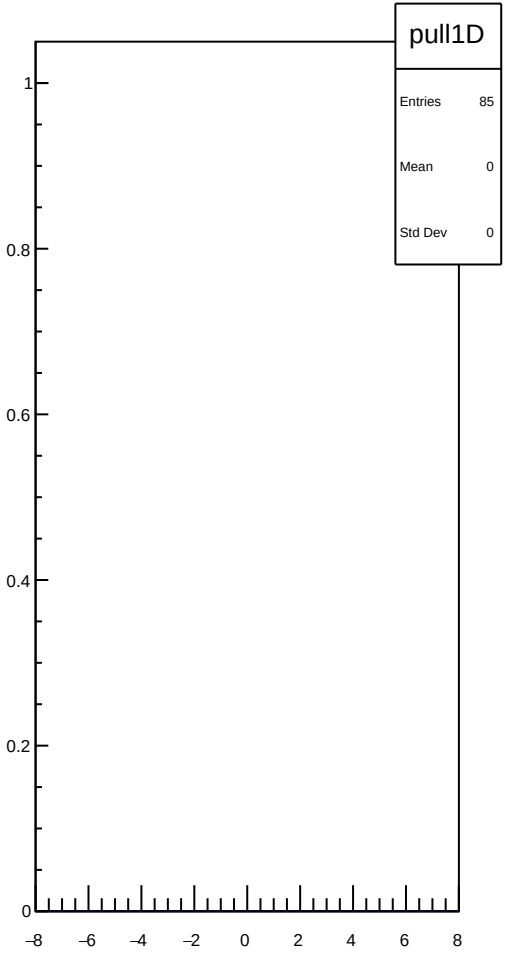


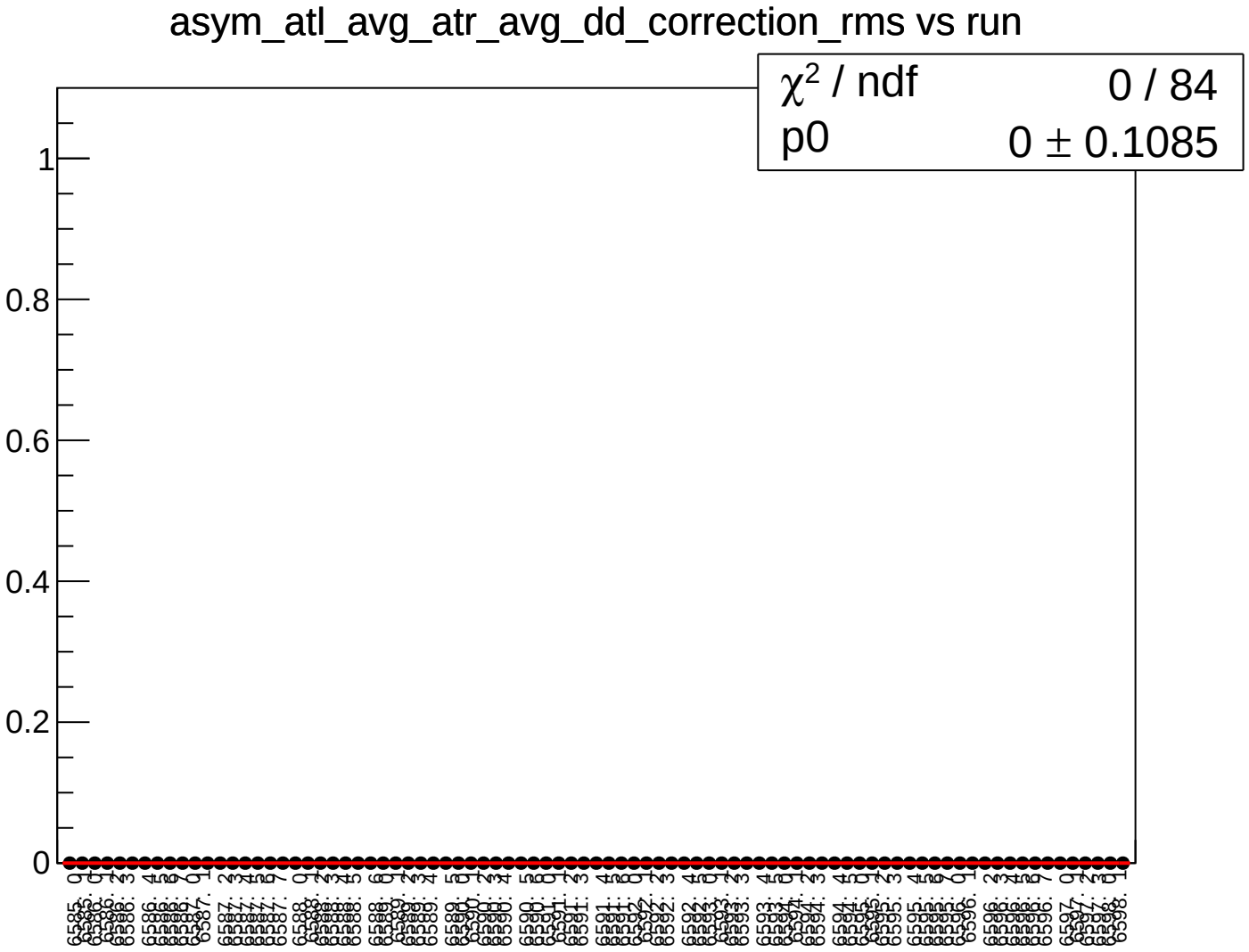

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 95.03 / 84
p0 1520 ± 1582
pull
Entries 85
Mean 633.6
Std Dev 594.9
pull1D
Entries 85
Mean 0.00817
Std Dev 1.057

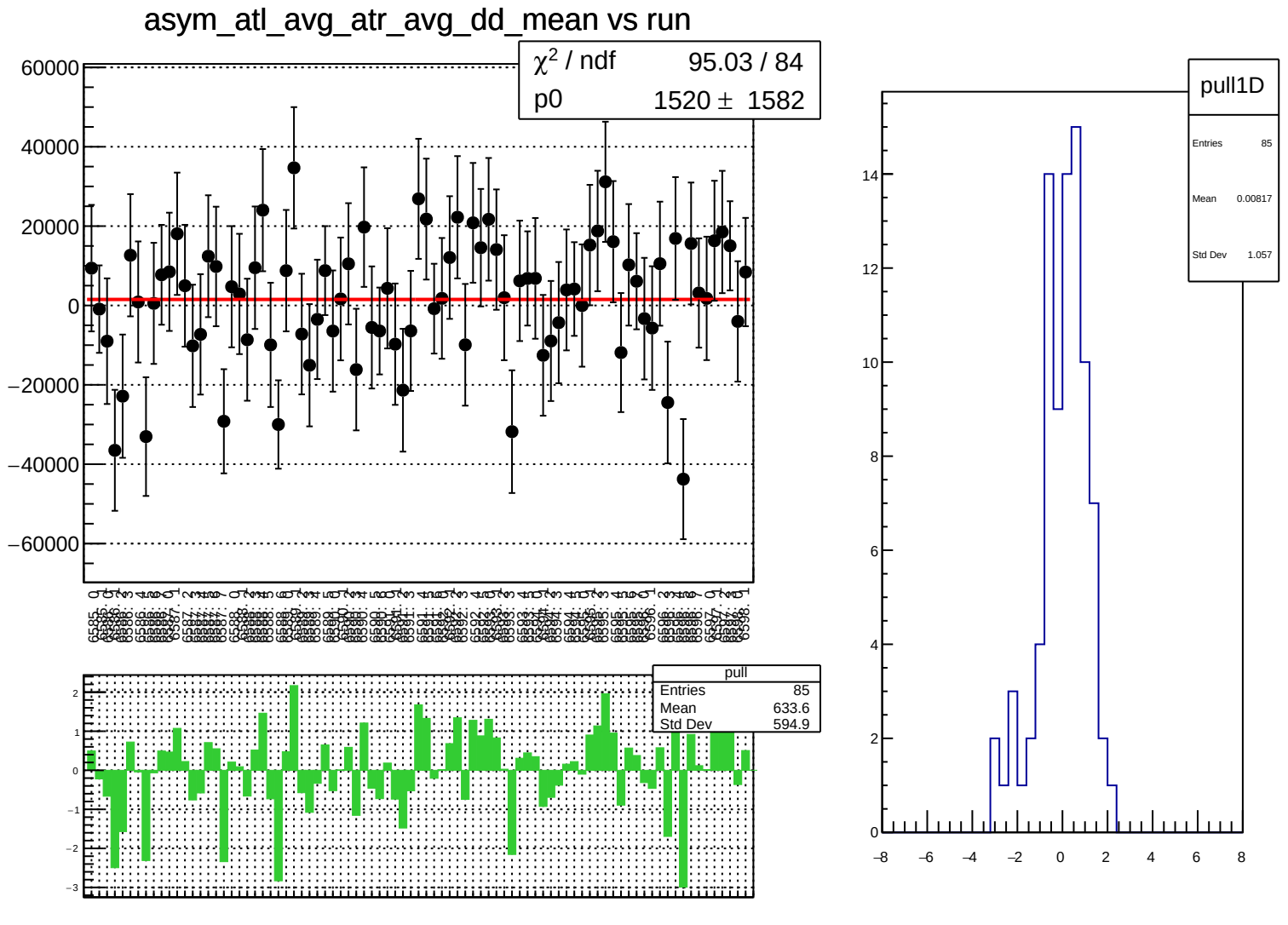
reg_asym_atl_avg_atr_avg_dd_rms vs run

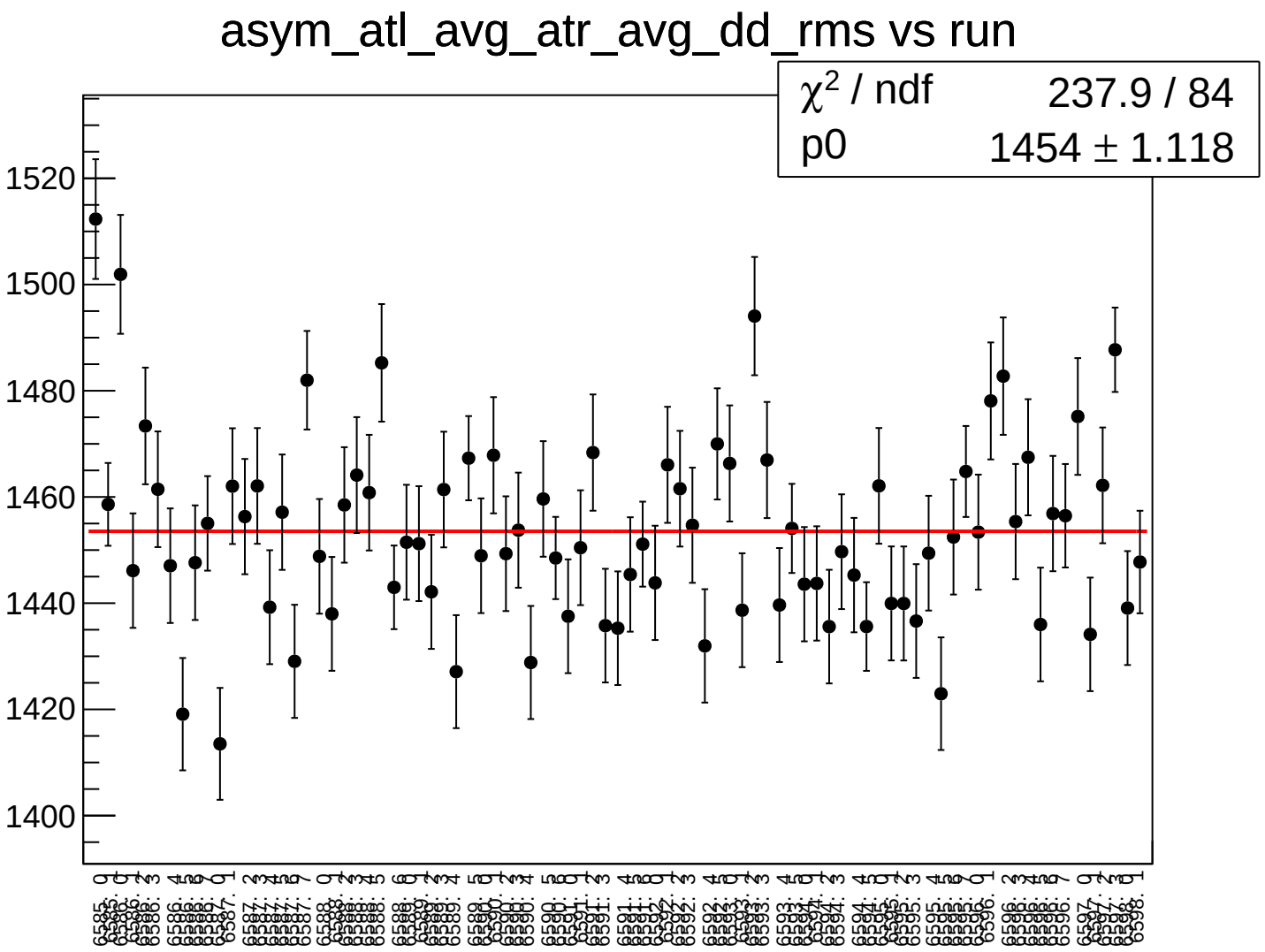


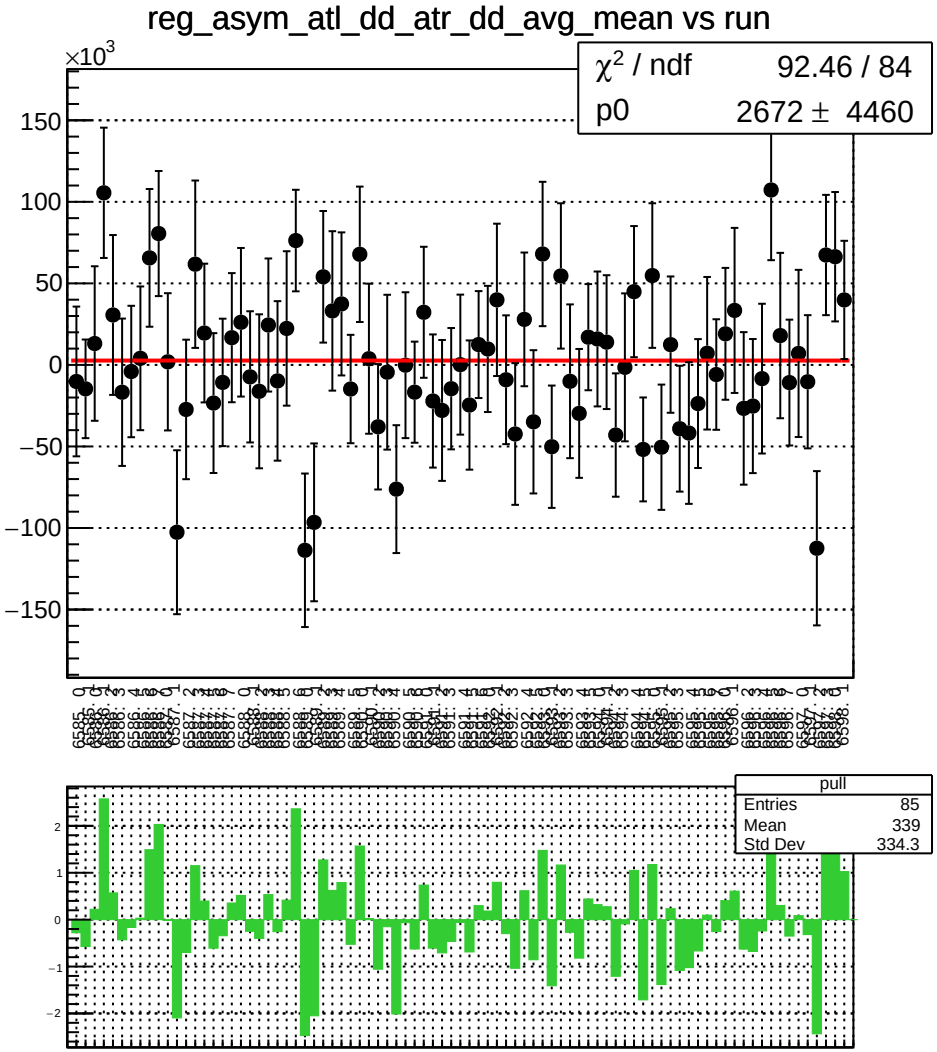

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ^2 / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

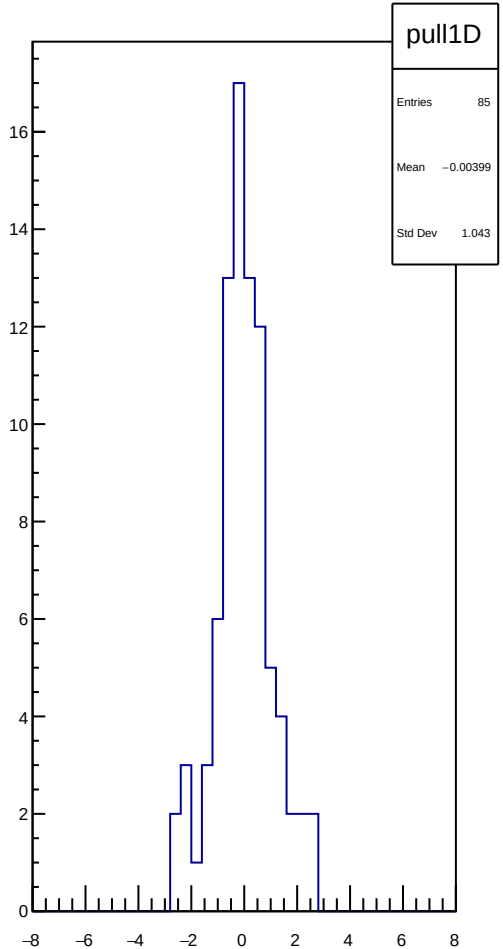

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_correction_rms vs run
χ2 / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

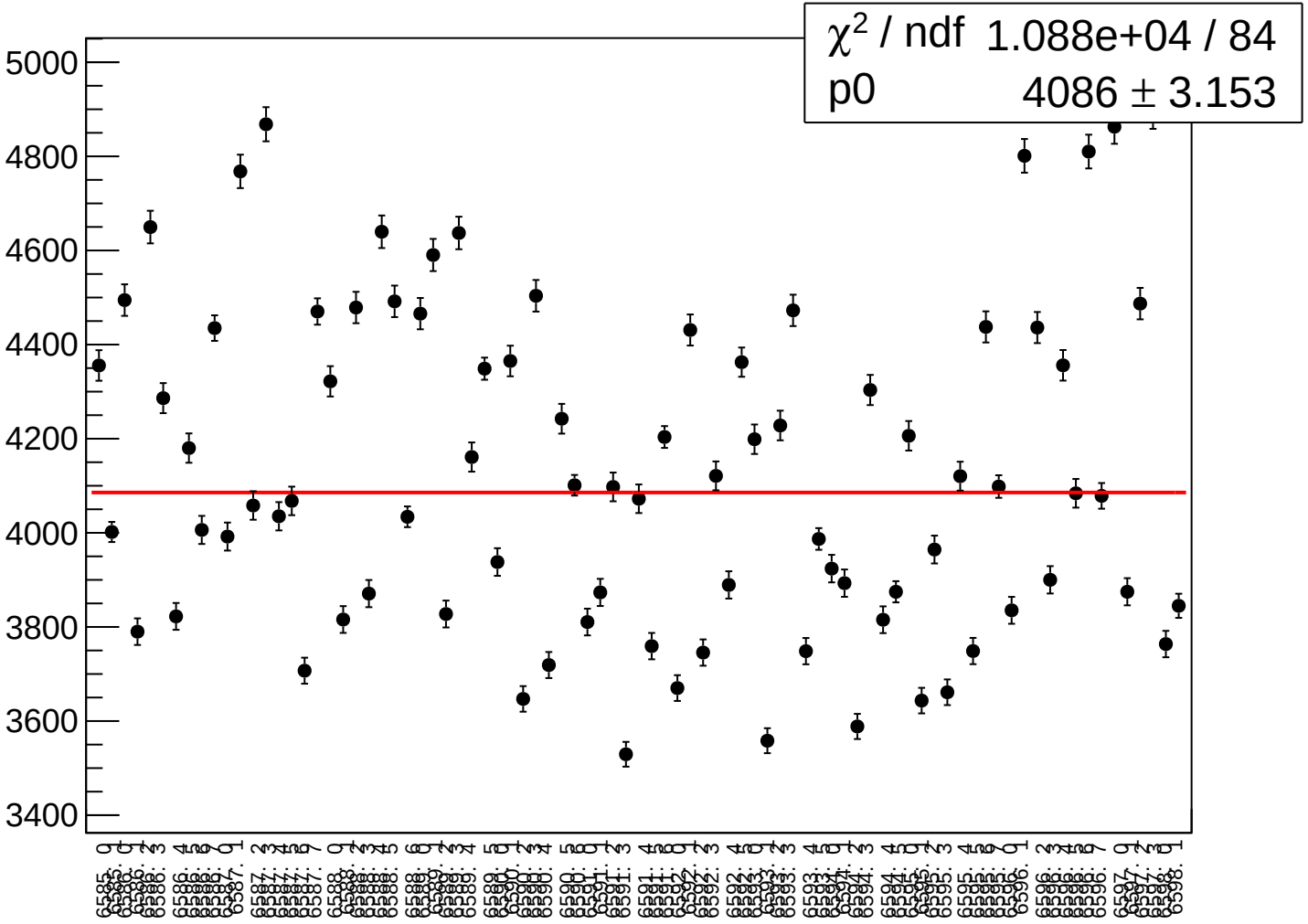

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 95.03 / 84
p0 1520 ± 1582
pull
Entries 85
Mean 633.6
Std Dev 594.9
pull1D
Entries 85
Mean 0.00817
Std Dev 1.057

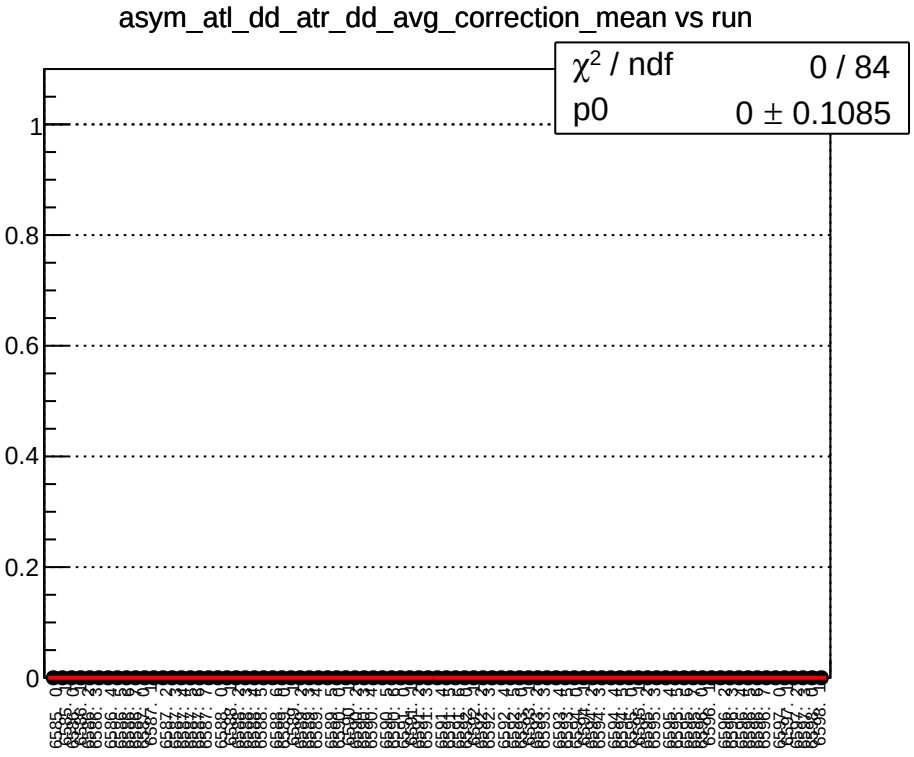

asym_atl_avg_atr_avg_dd_rms vs run
χ2 / ndf 237.9 / 84
p0 1454 ± 1.118
1520
1500
1480
1460
1440
1420
1400

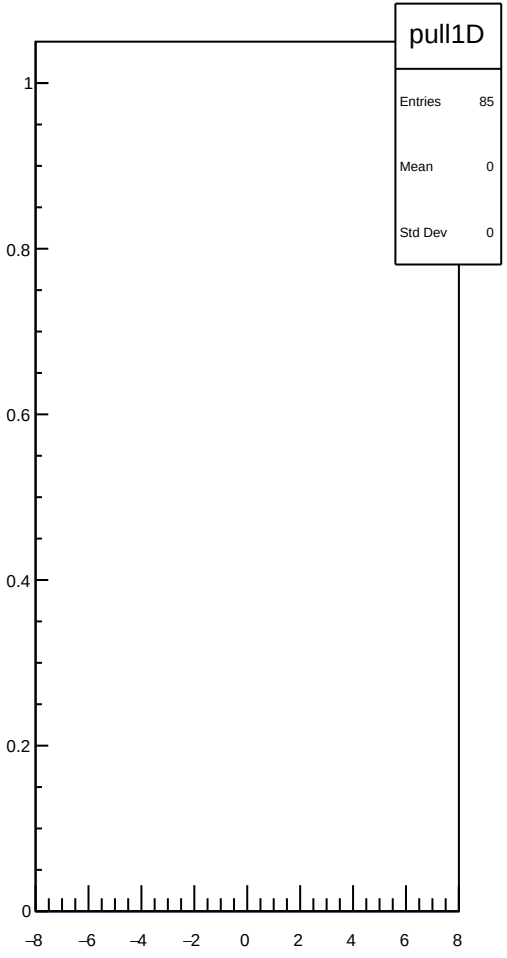

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 92.46 / 84
p0 2672 ± 4460
pull
Entries 85
Mean 339
Std Dev 334.3


pull1D
Entries 85
Mean −0.00399
Std Dev 1.043

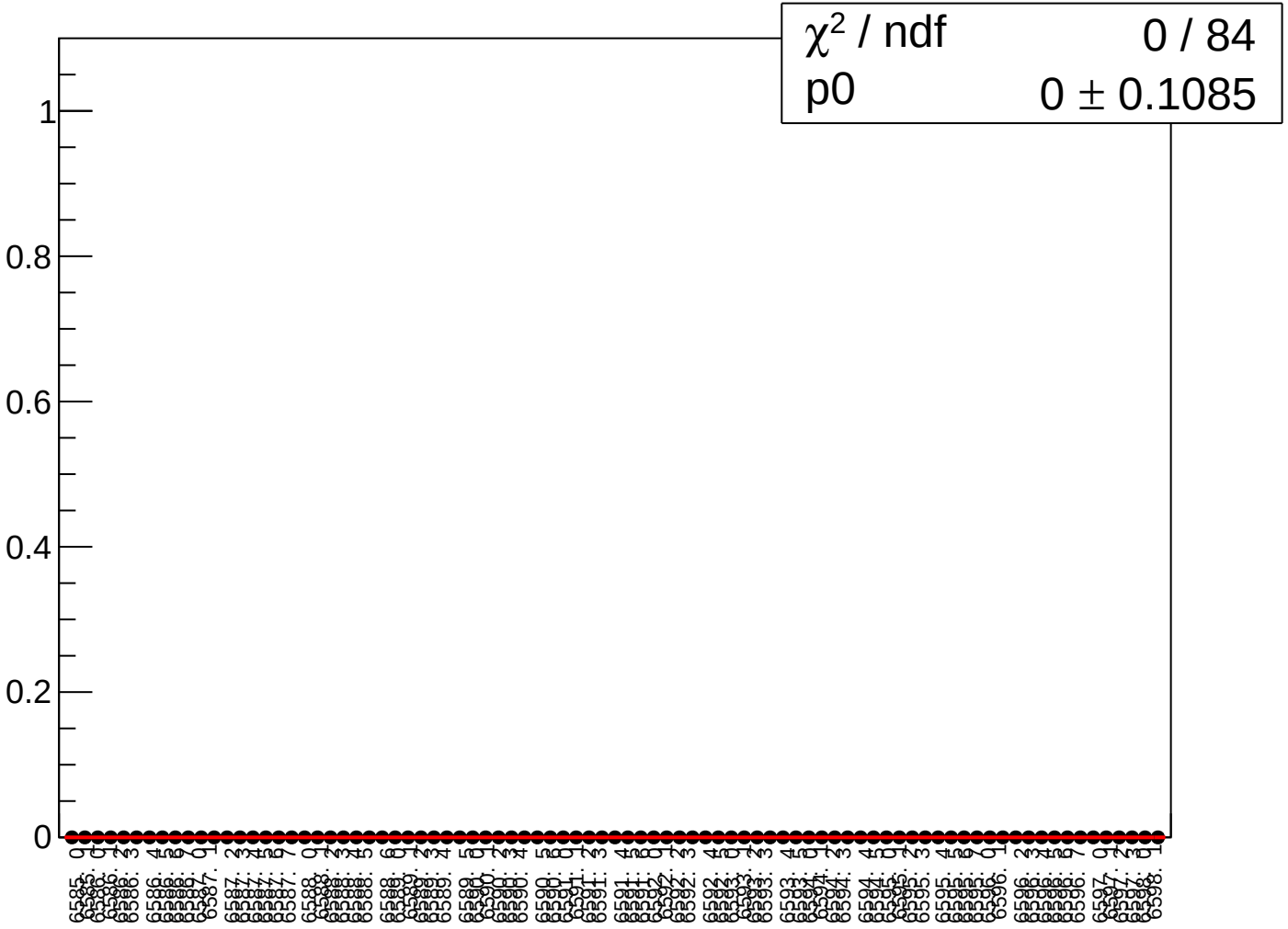
reg_asym_atl_dd_atr_dd_avg_rms vs run

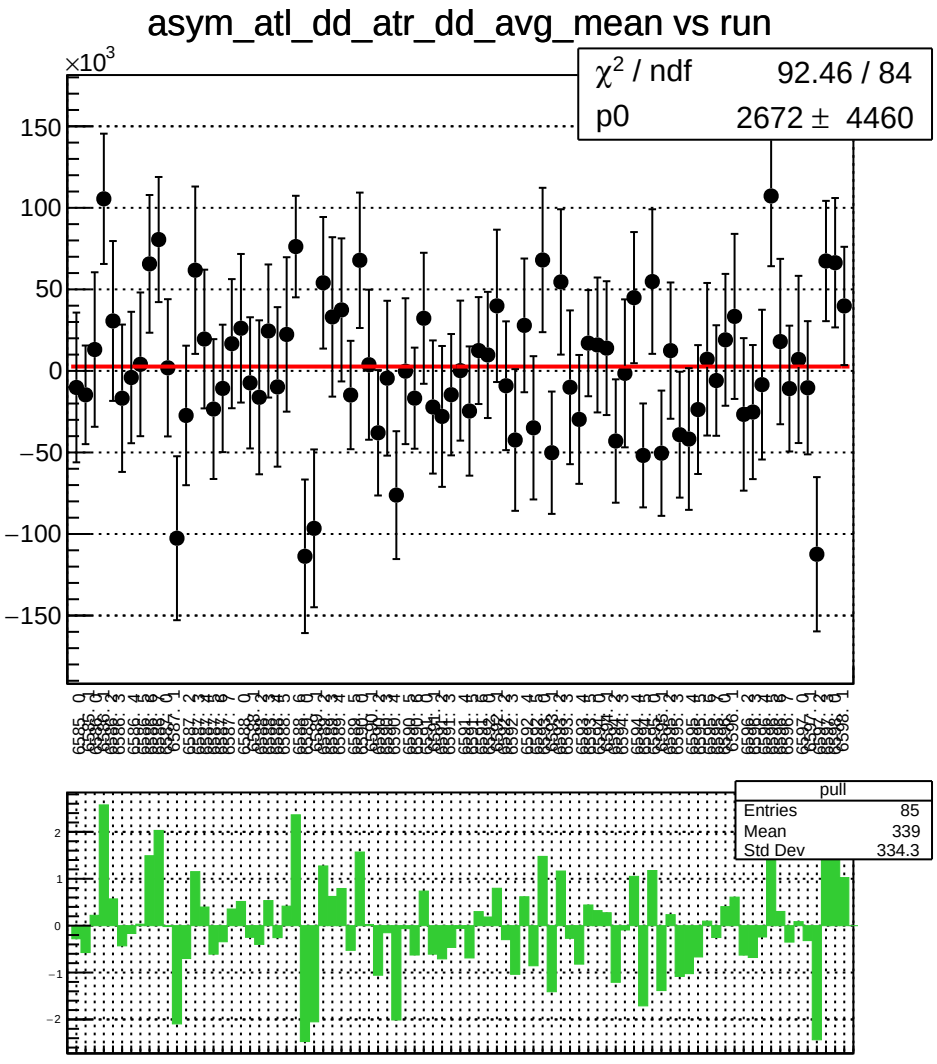


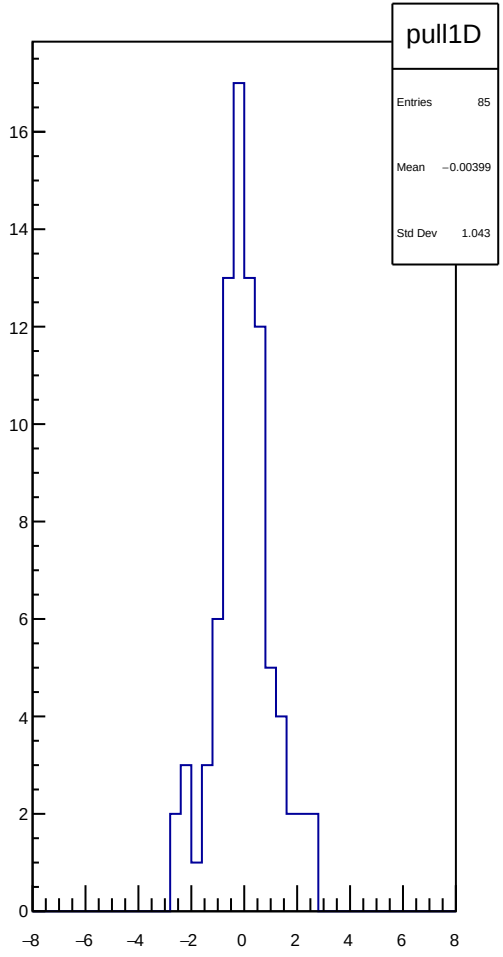

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ^2 / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

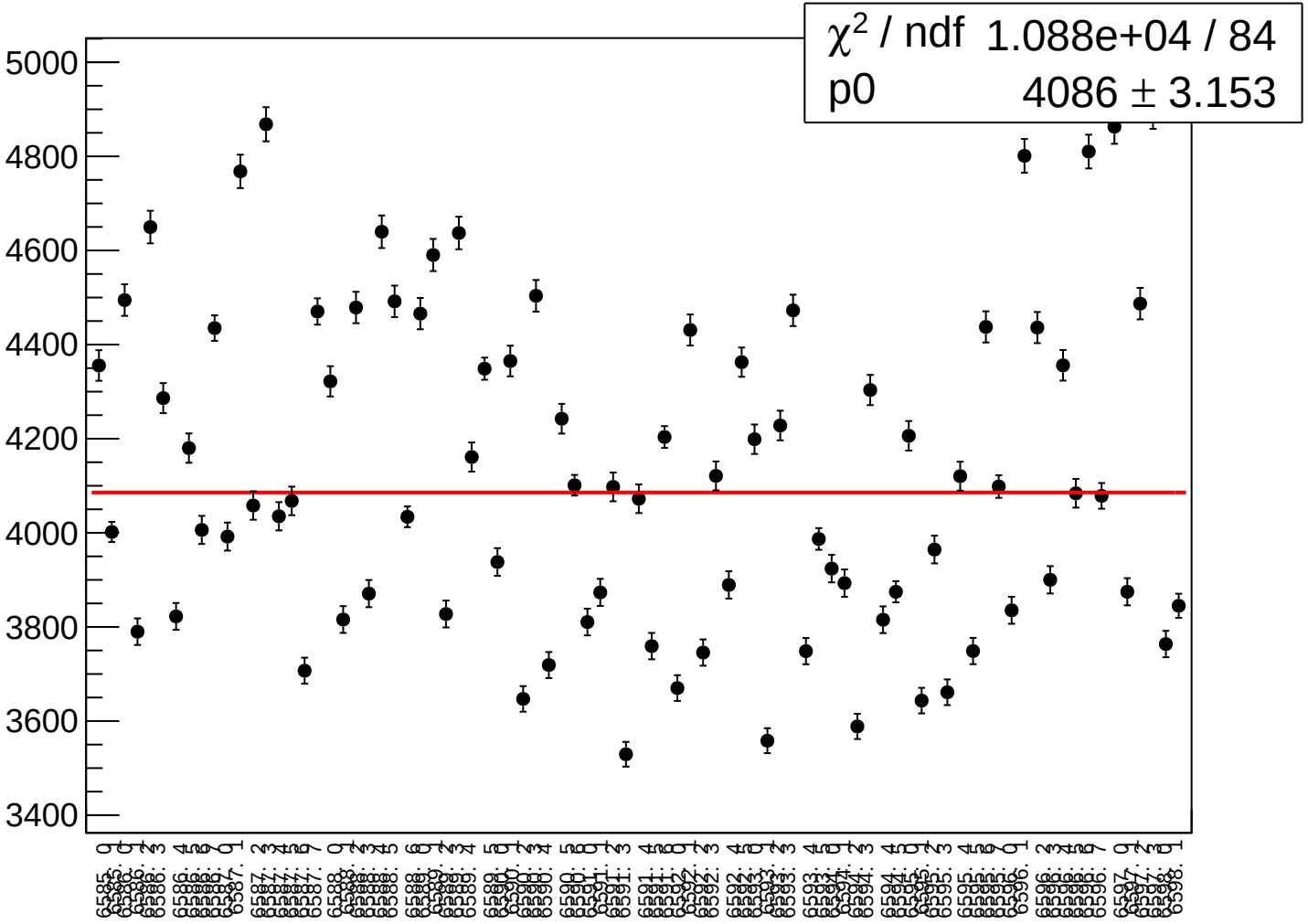
asym_atl_dd_atr_dd_avg_correction_rms vs run

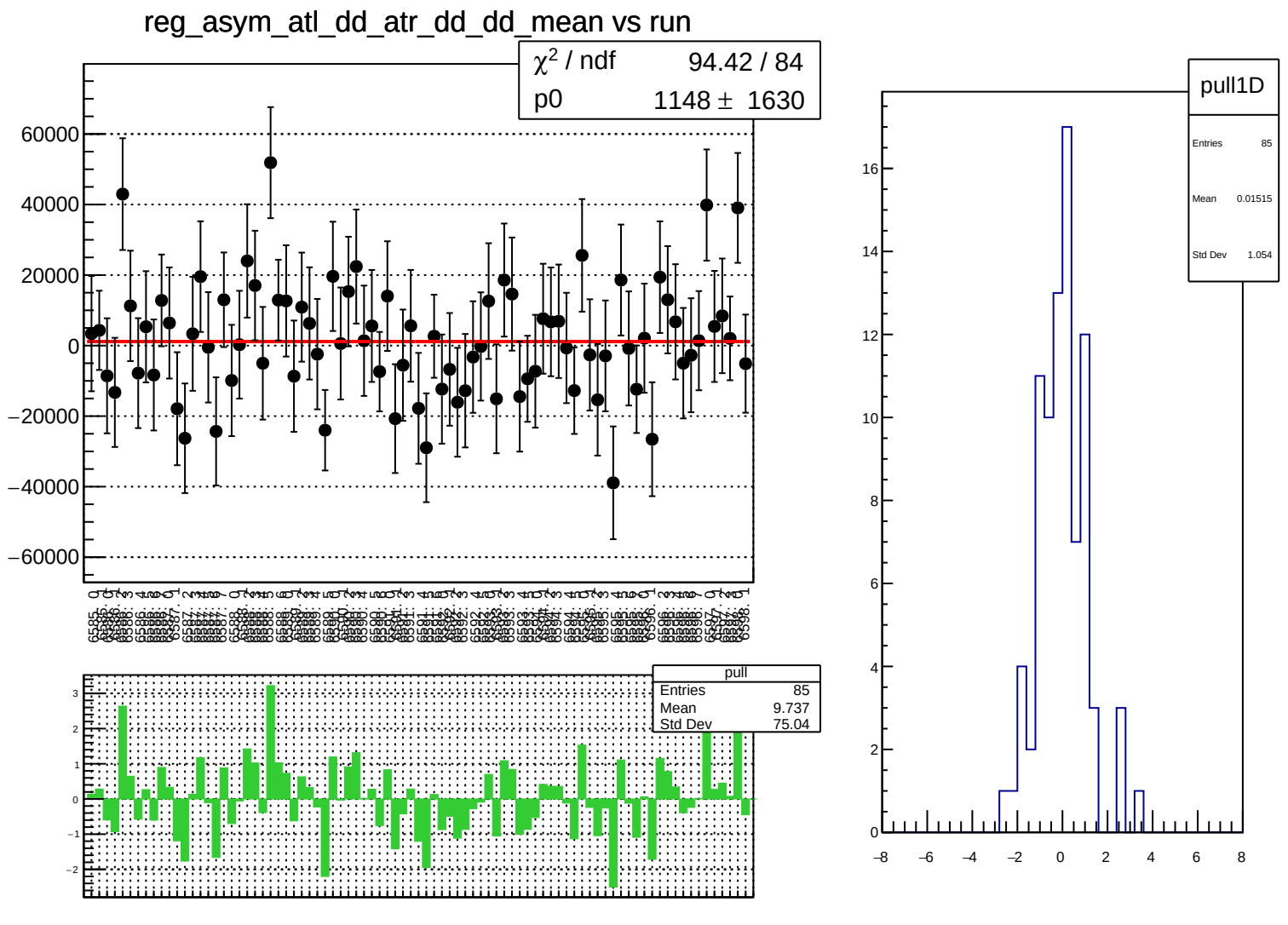



asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 92.46 / 84
p0 2672 ± 4460
pull
Entries 85
Mean 339
Std Dev 334.3

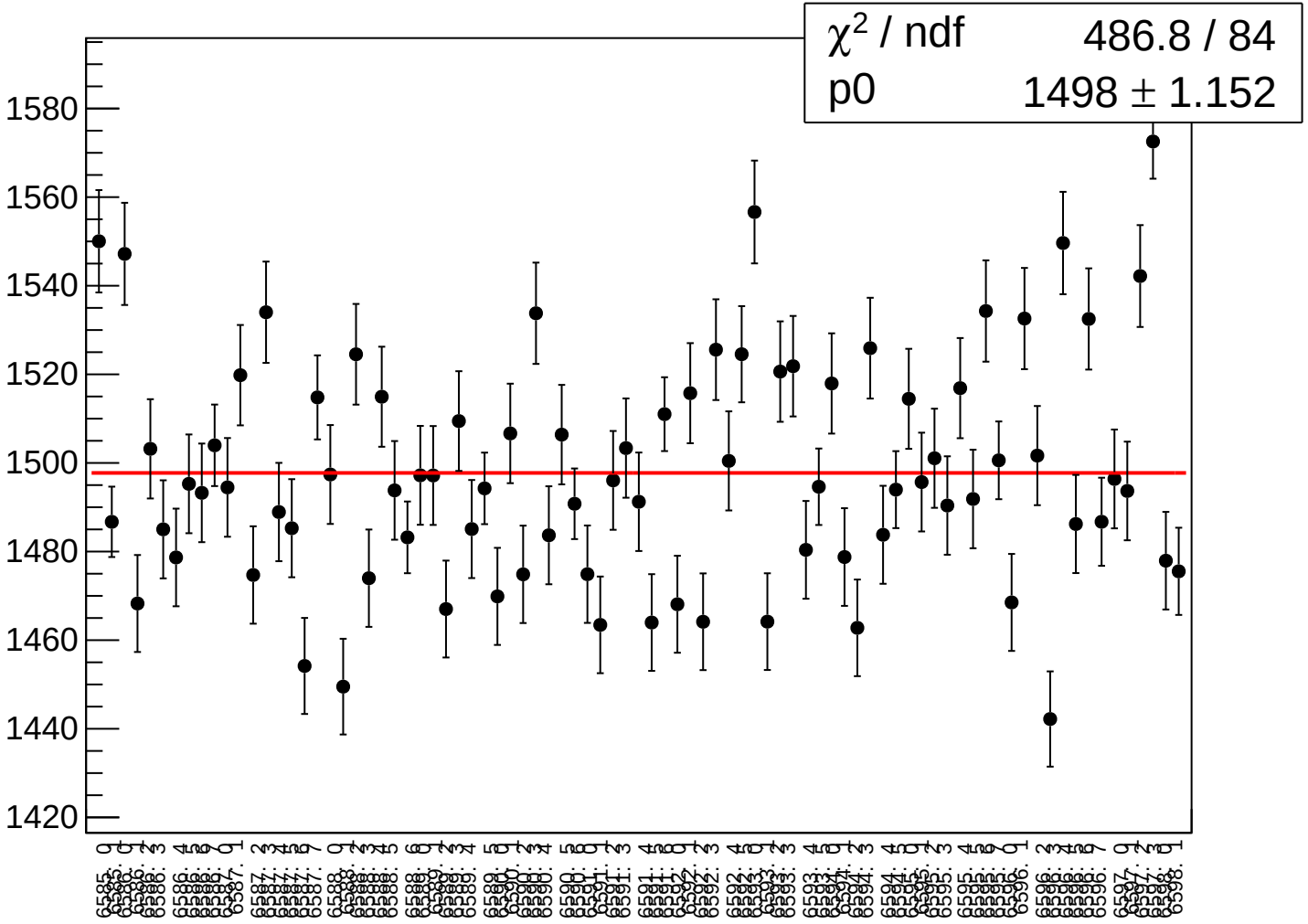

pull1D
Entries 85
Mean −0.00399
Std Dev 1.043

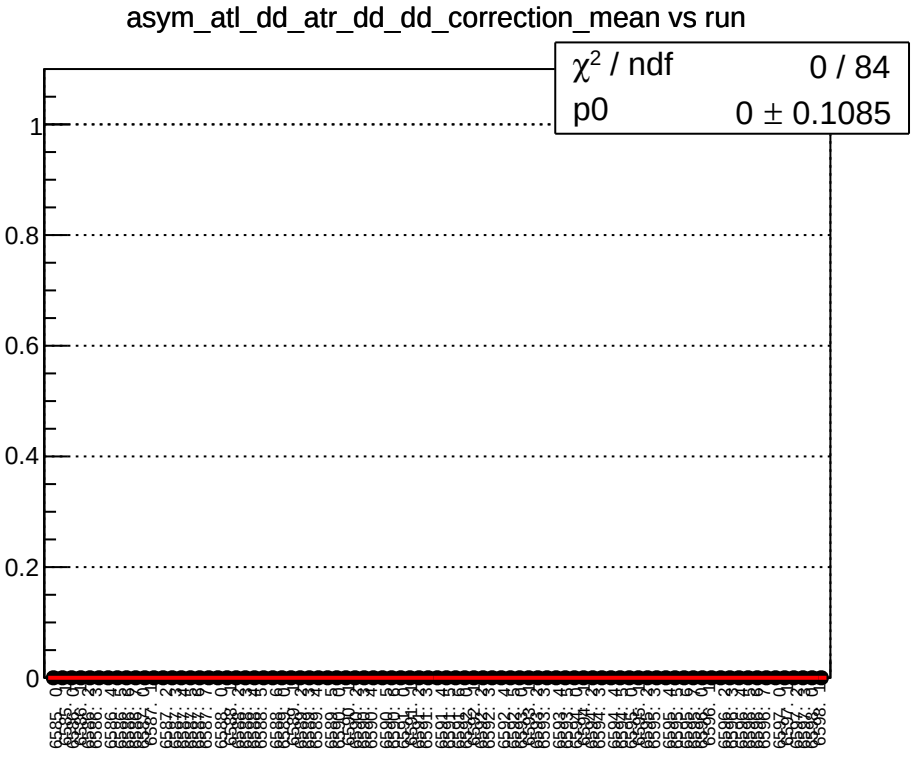
asym_atl_dd_atr_dd_avg_rms vs run

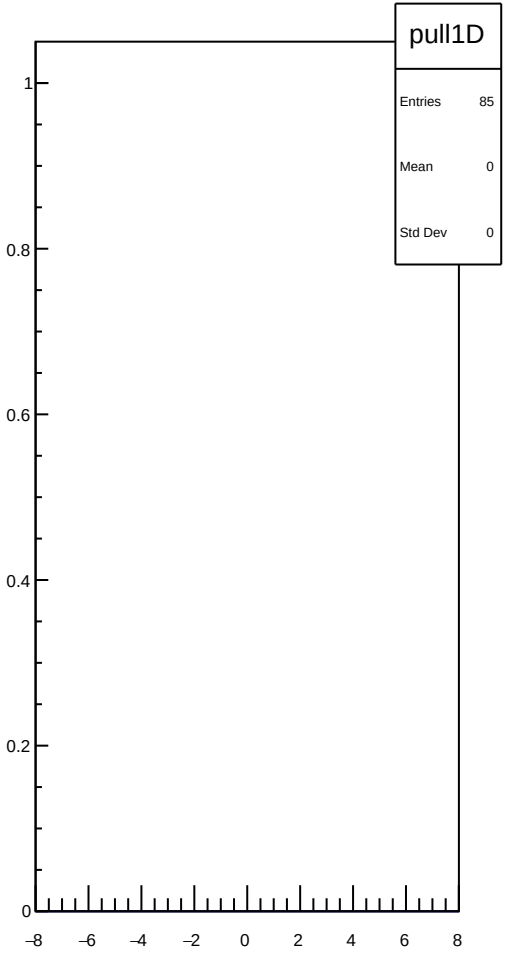



reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 94.42 / 84
p0 1148 ± 1630
pull
Entries 85
Mean 9.737
Std Dev 75.04
pull1D
Entries 85
Mean 0.01515
Std Dev 1.054

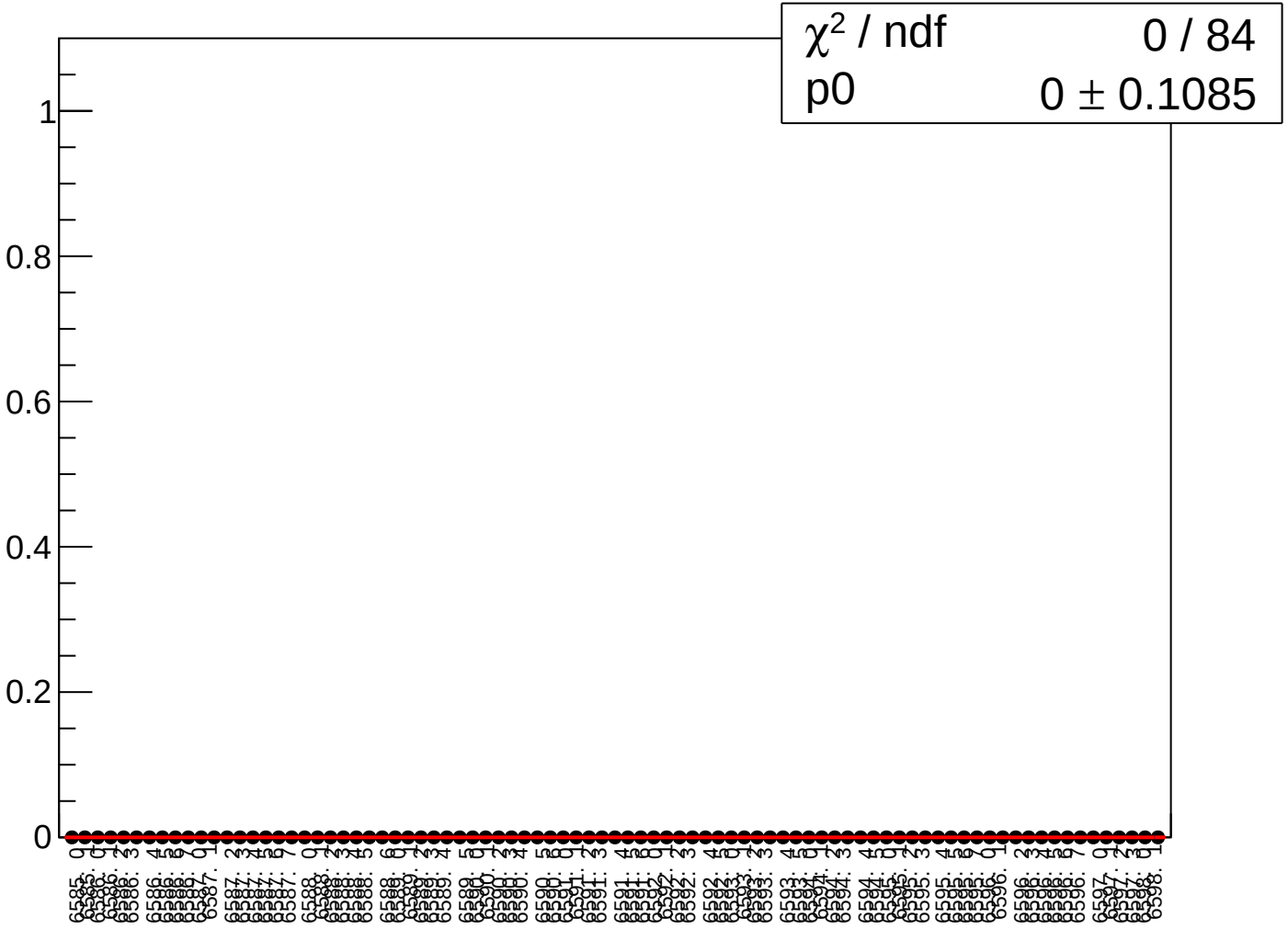
reg_asym_atl_dd_atr_dd_dd_rms vs run

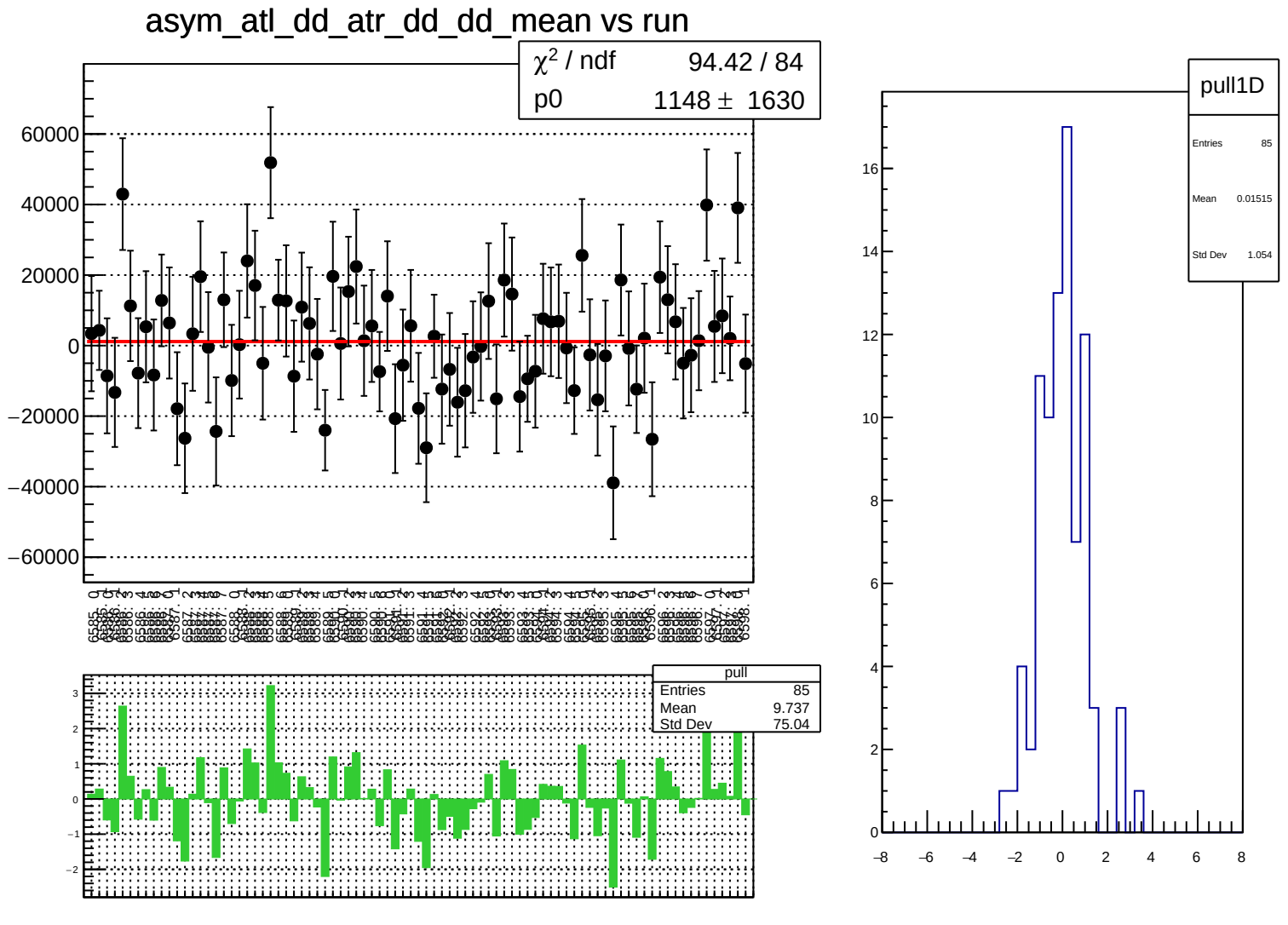



asym_atl_dd_atr_dd_dd_correction_mean vs run
χ^2 / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

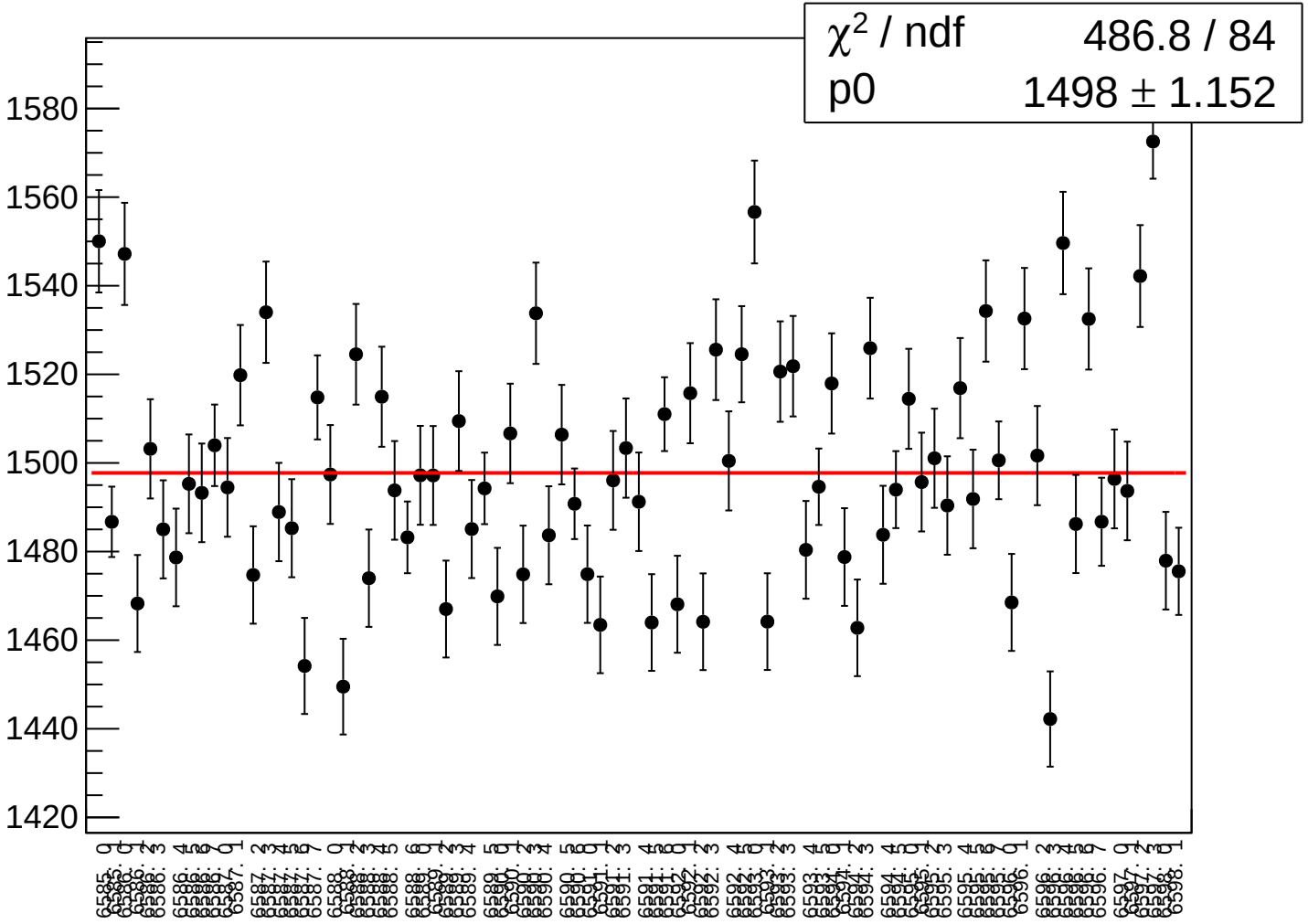

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

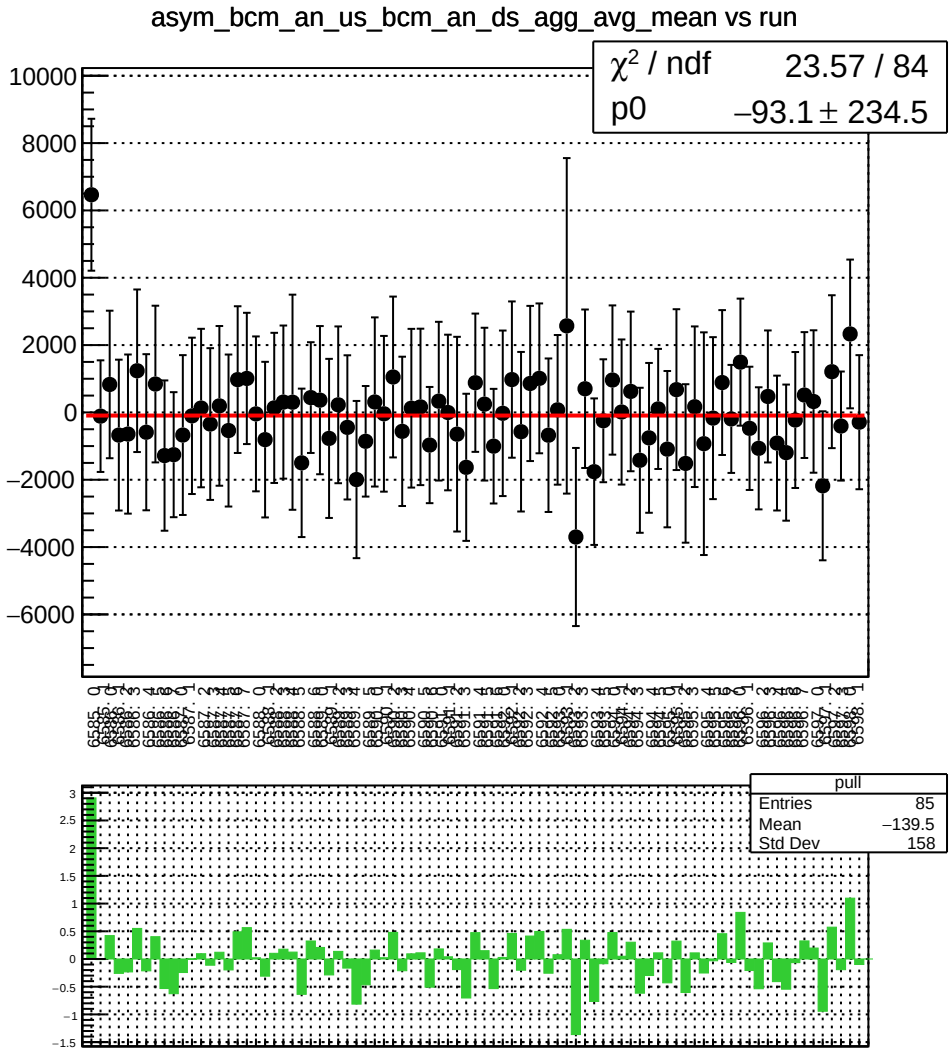
asym_atl_dd_atr_dd_dd_correction_rms vs run

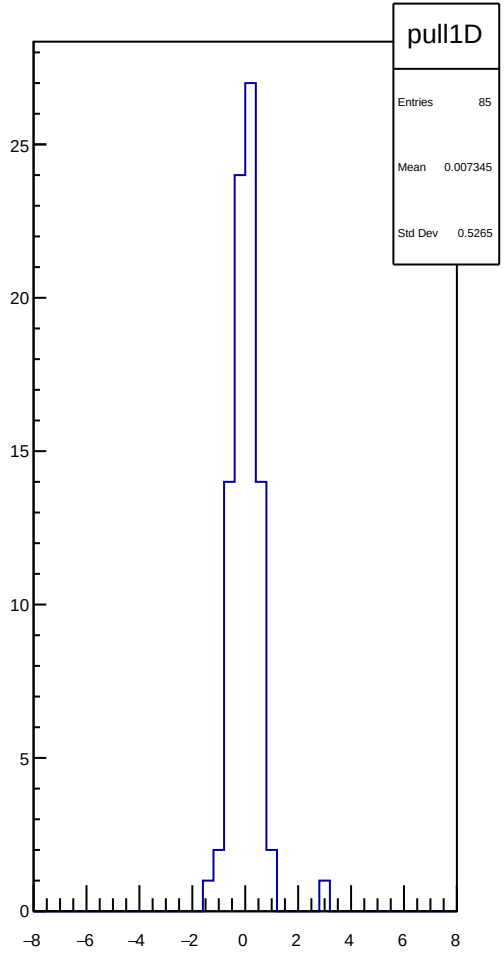


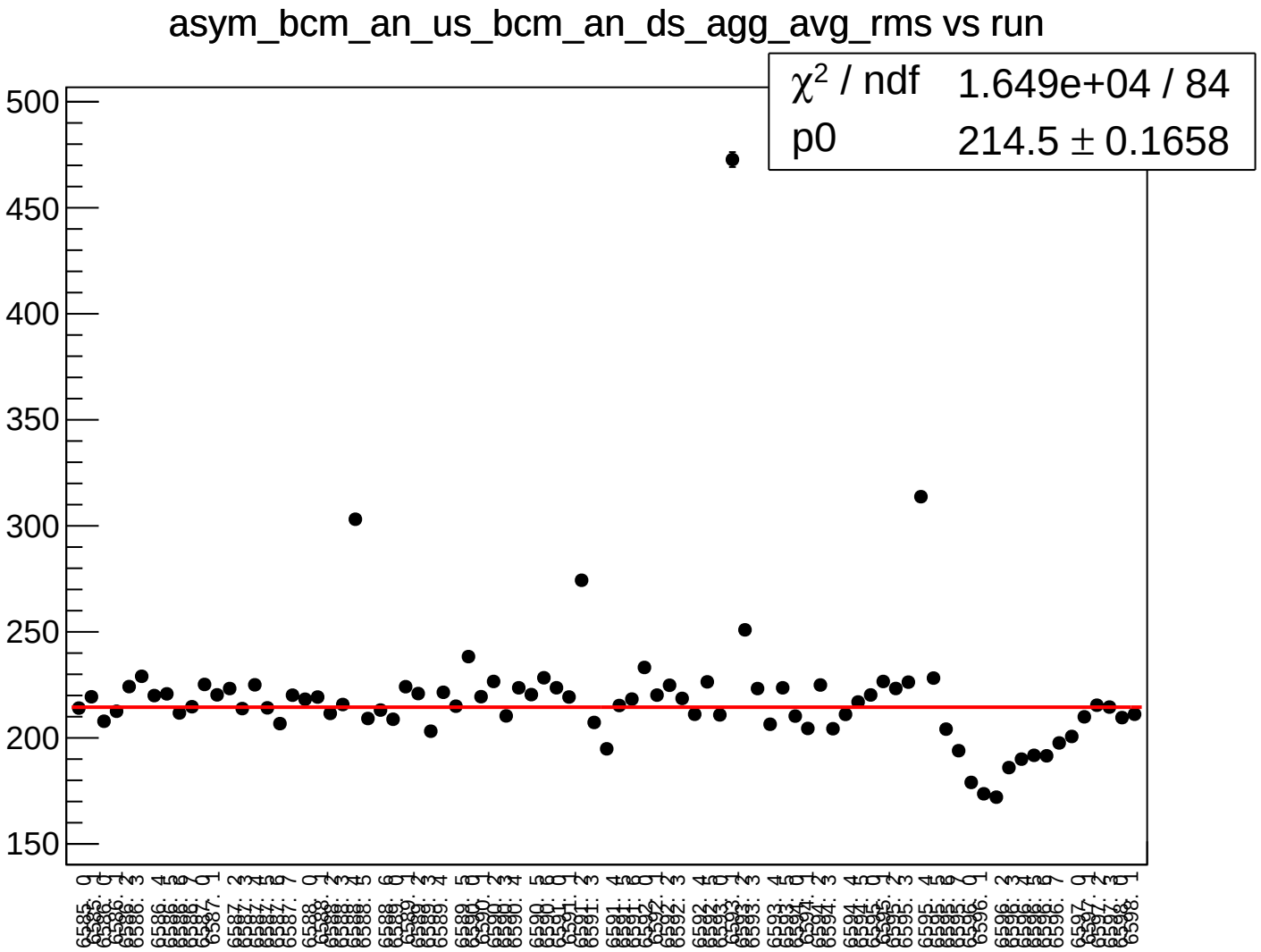

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 94.42 / 84
p0 1148 ± 1630
pull
Entries 85
Mean 9.737
Std Dev 75.04
pull1D
Entries 85
Mean 0.01515
Std Dev 1.054

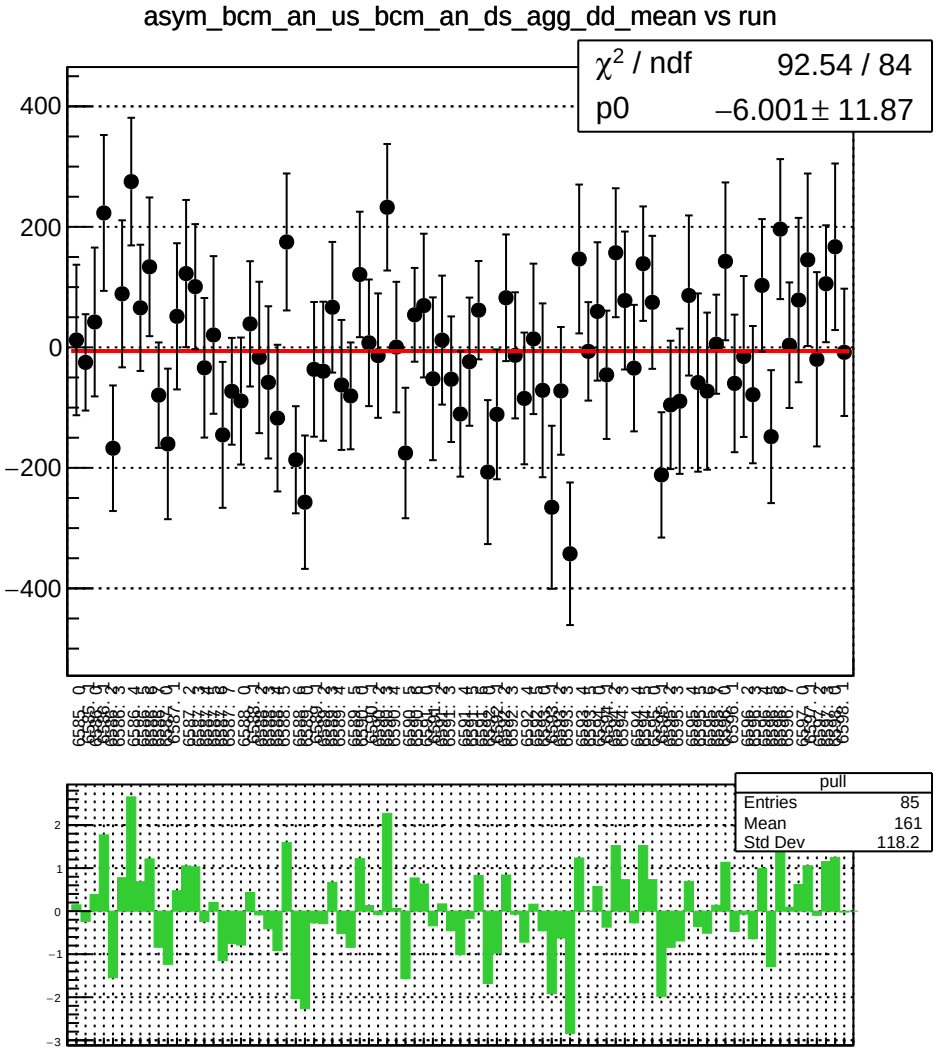
asym_atl_dd_atr_dd_dd_rms vs run

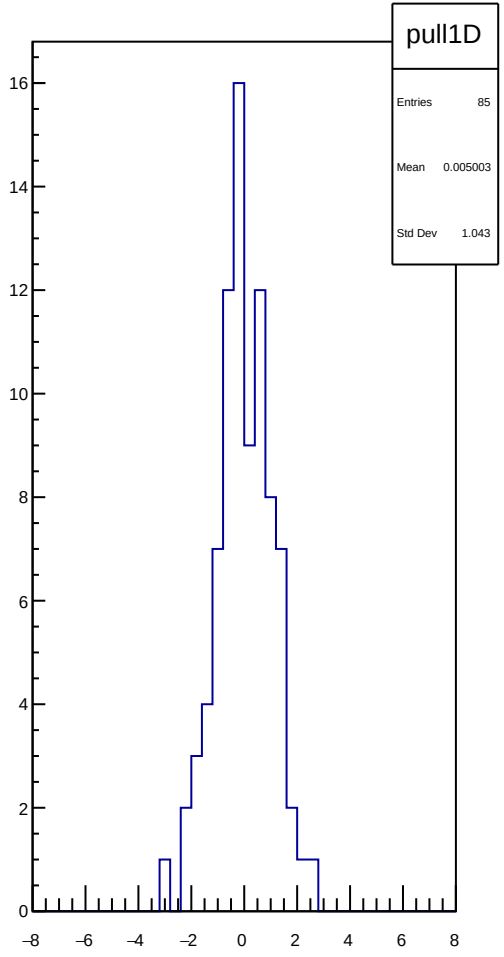


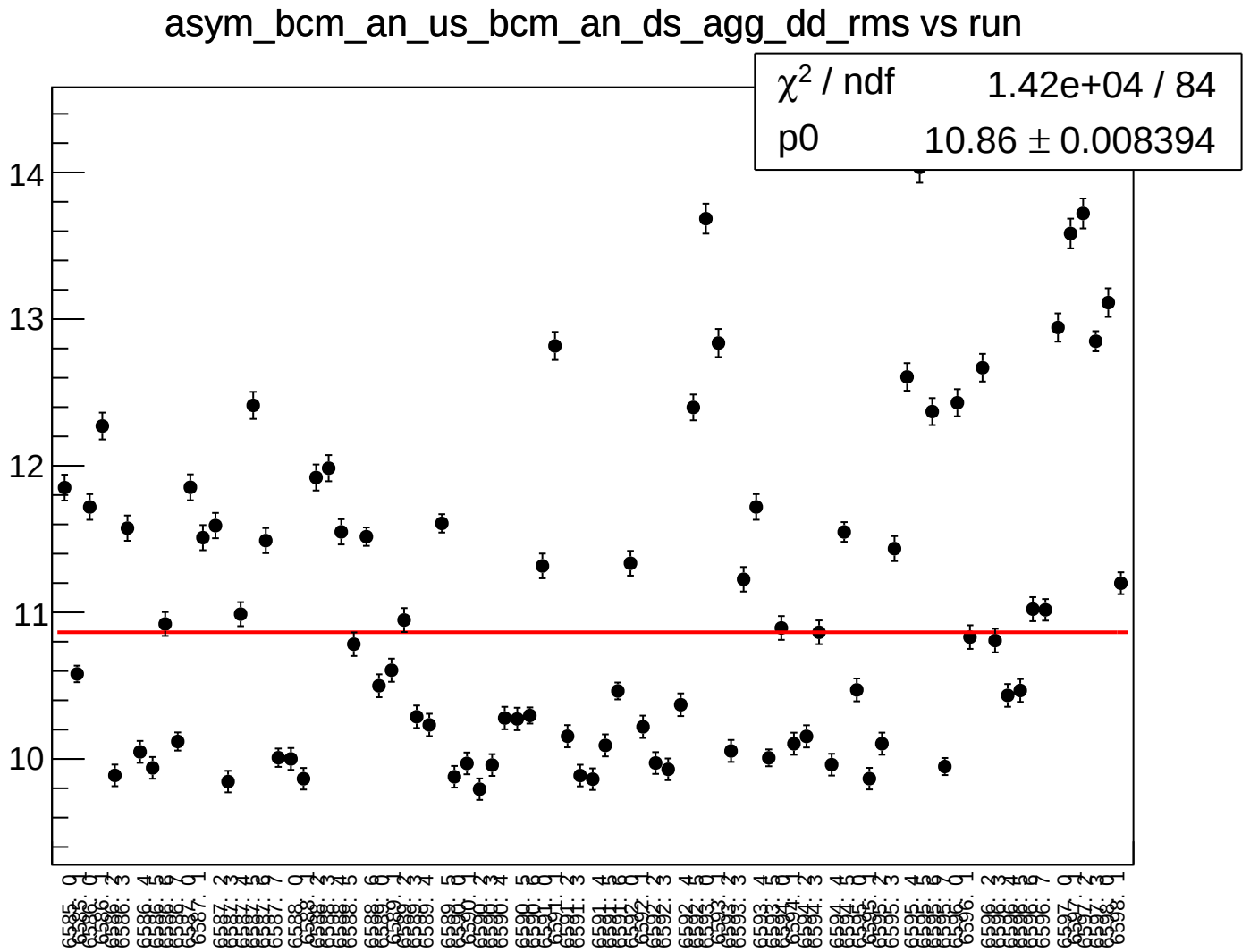

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.57 / 84
p0 −93.1 ± 234.5
pull
Entries 85
Mean −139.5
Std Dev 158

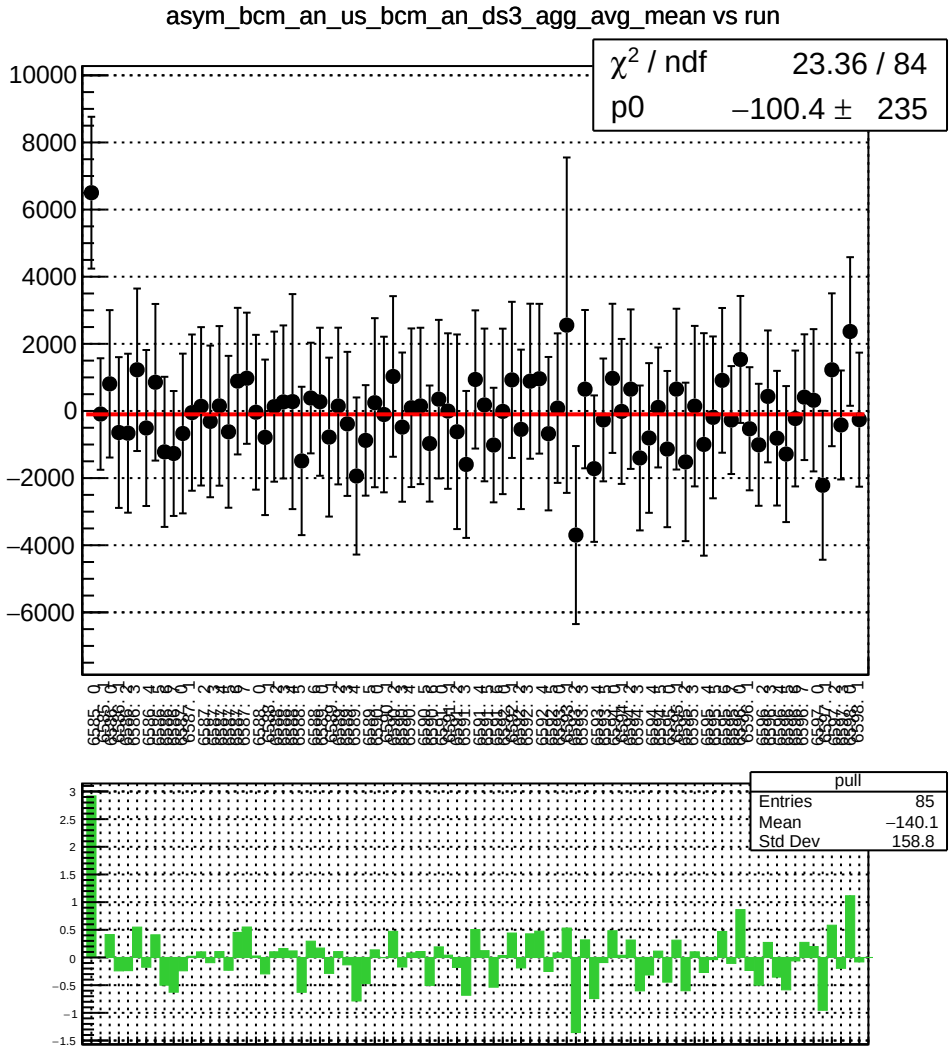

pull1D
Entries 85
Mean 0.007345
Std Dev 0.5265

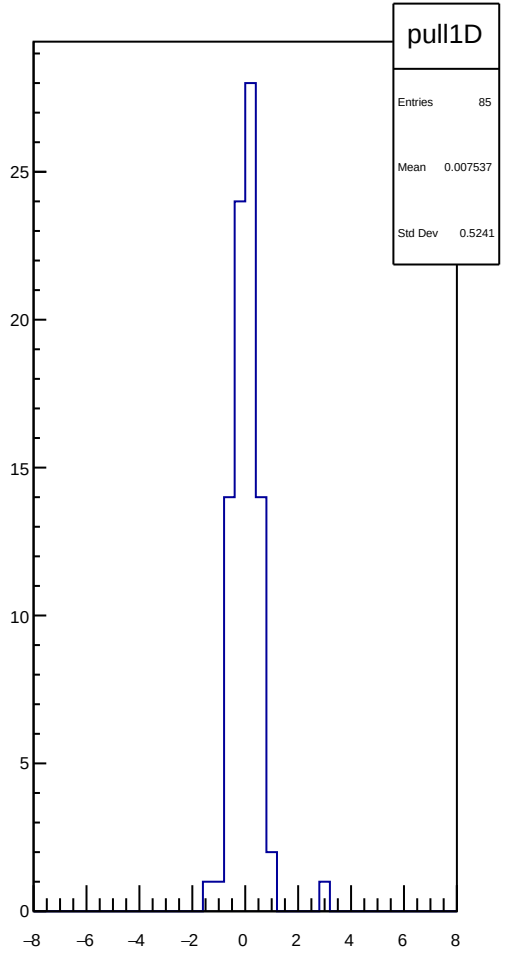

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 1.649e+04 / 84
p0 214.5 ± 0.1658
500
450
400
350
300
250
200
150

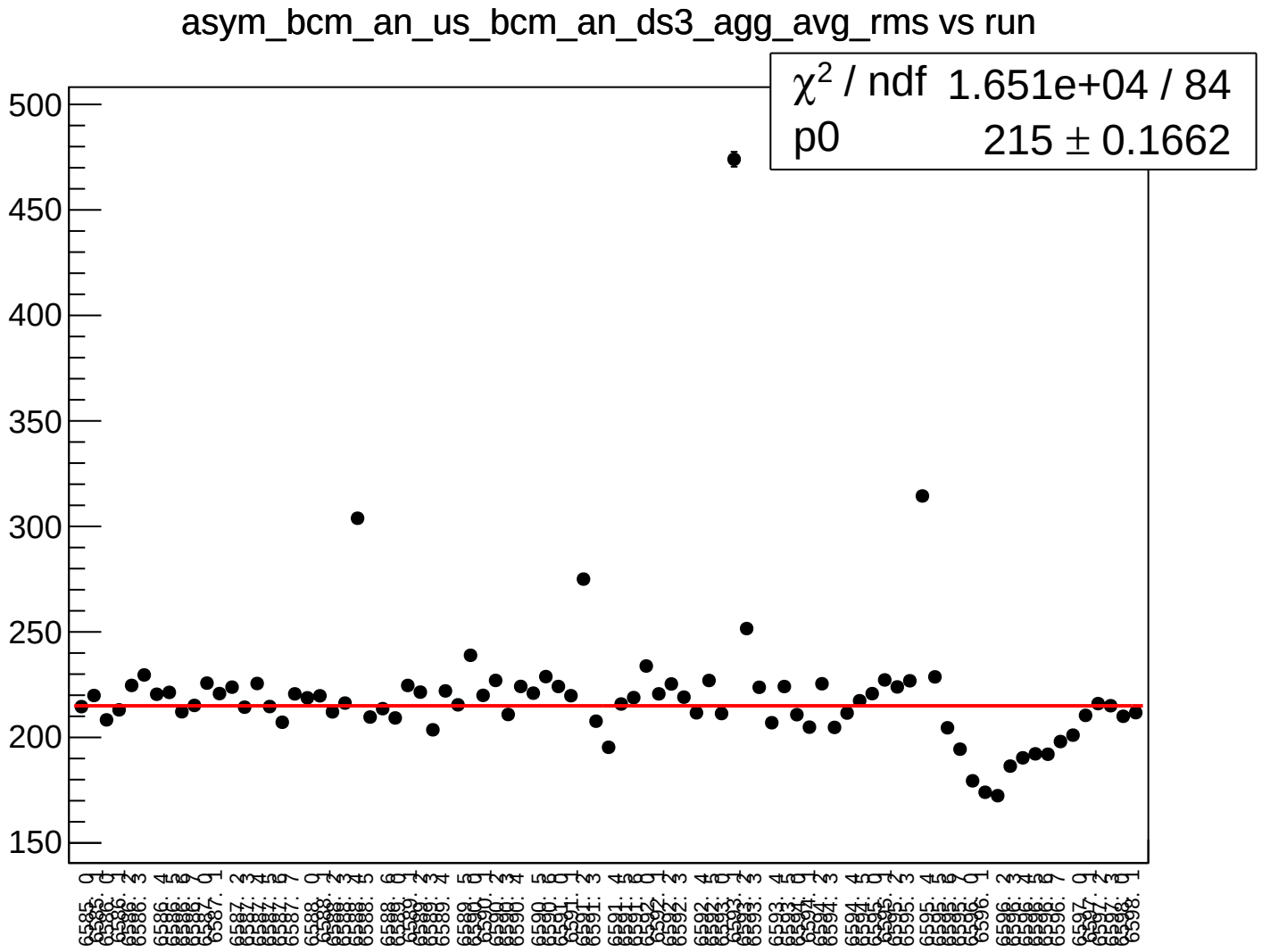

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ^2 / ndf 92.54 / 84
p0 −6.001 ± 11.87
400
200
0
−200
−400
pull
Entries 85
Mean 161
Std Dev 118.2
2
1
0
−1
−2
−3

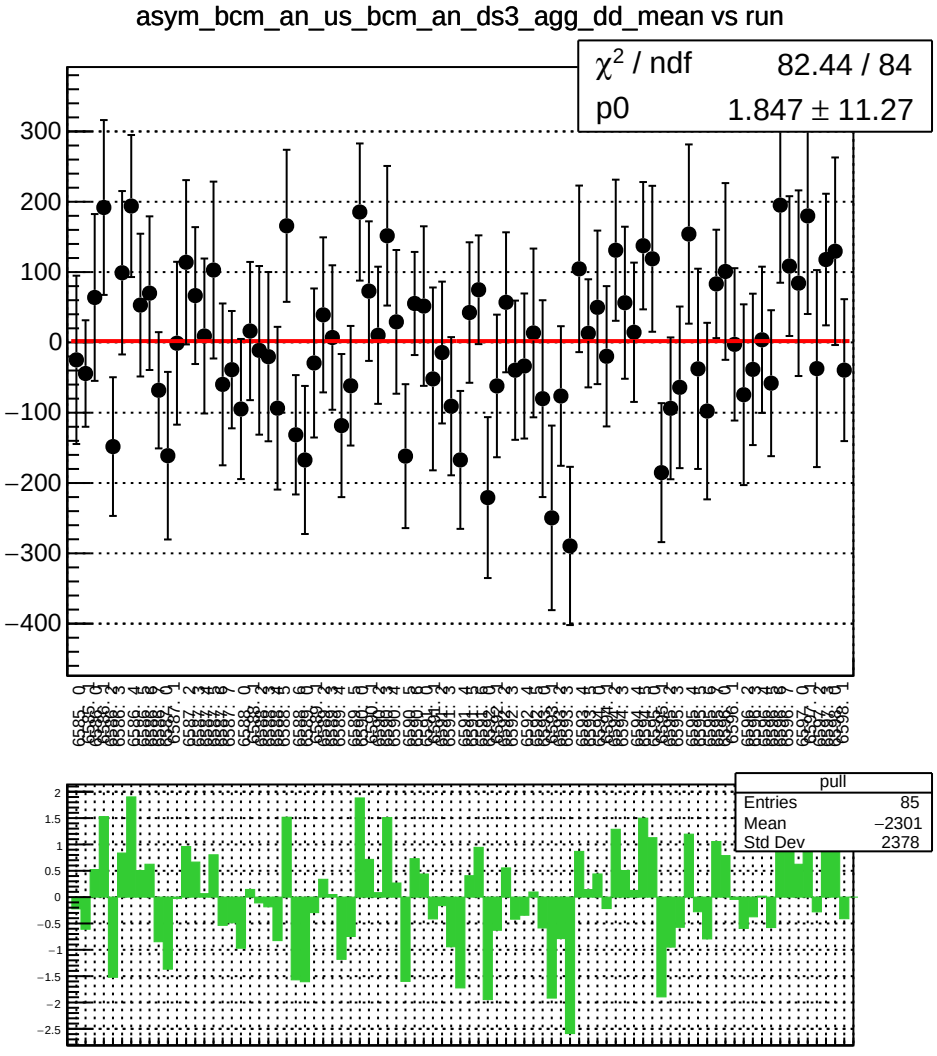

pull1D
Entries 85
Mean 0.005003
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

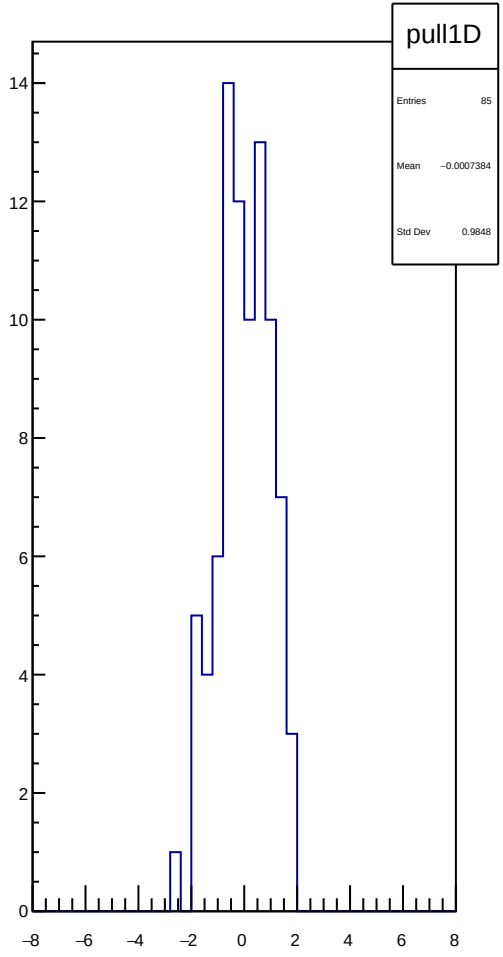

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 1.42e+04 / 84
p0 10.86 ± 0.008394
14
13
12
11
10

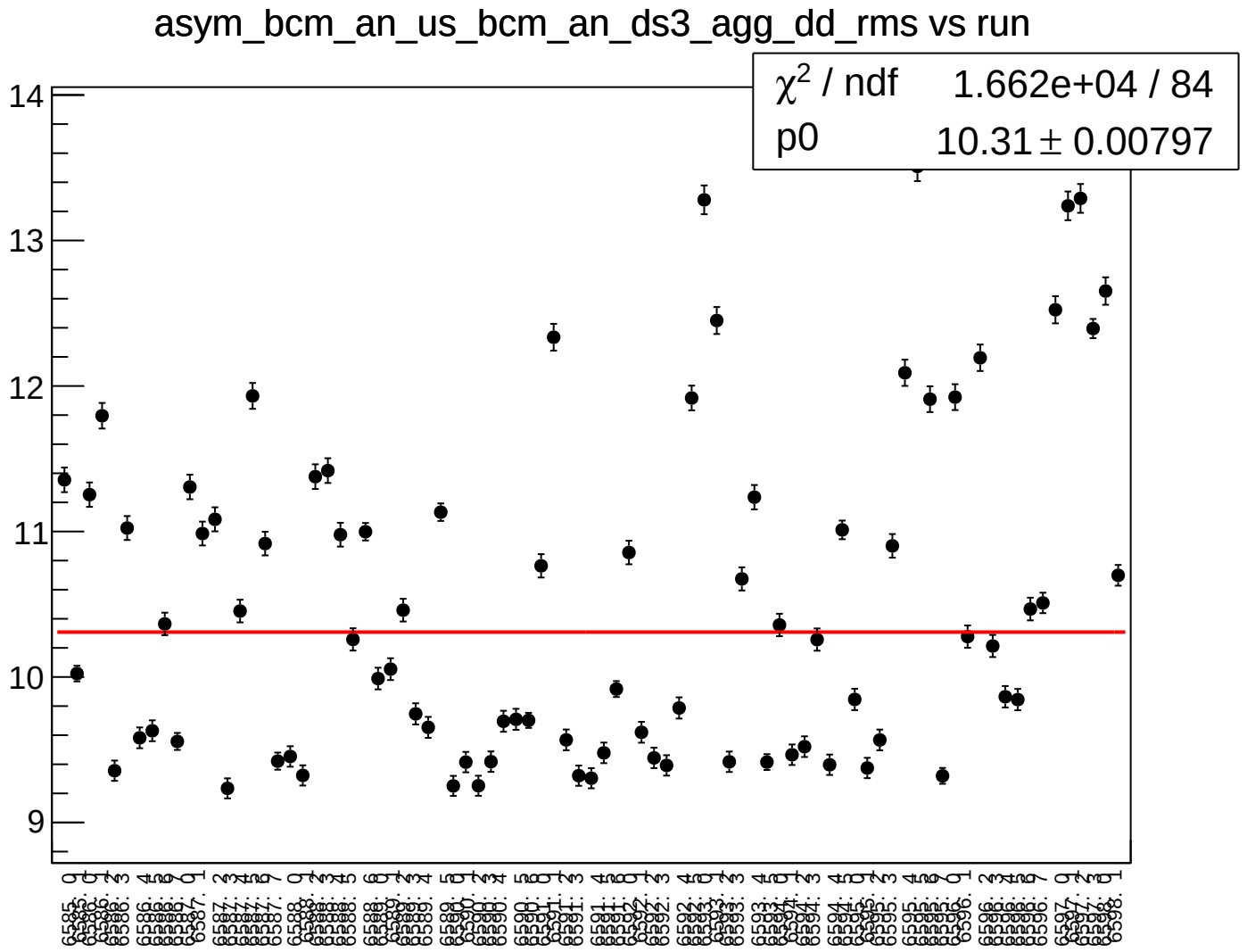

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 23.36 / 84
p0 −100.4 ± 235
pull
Entries 85
Mean −140.1
Std Dev 158.8

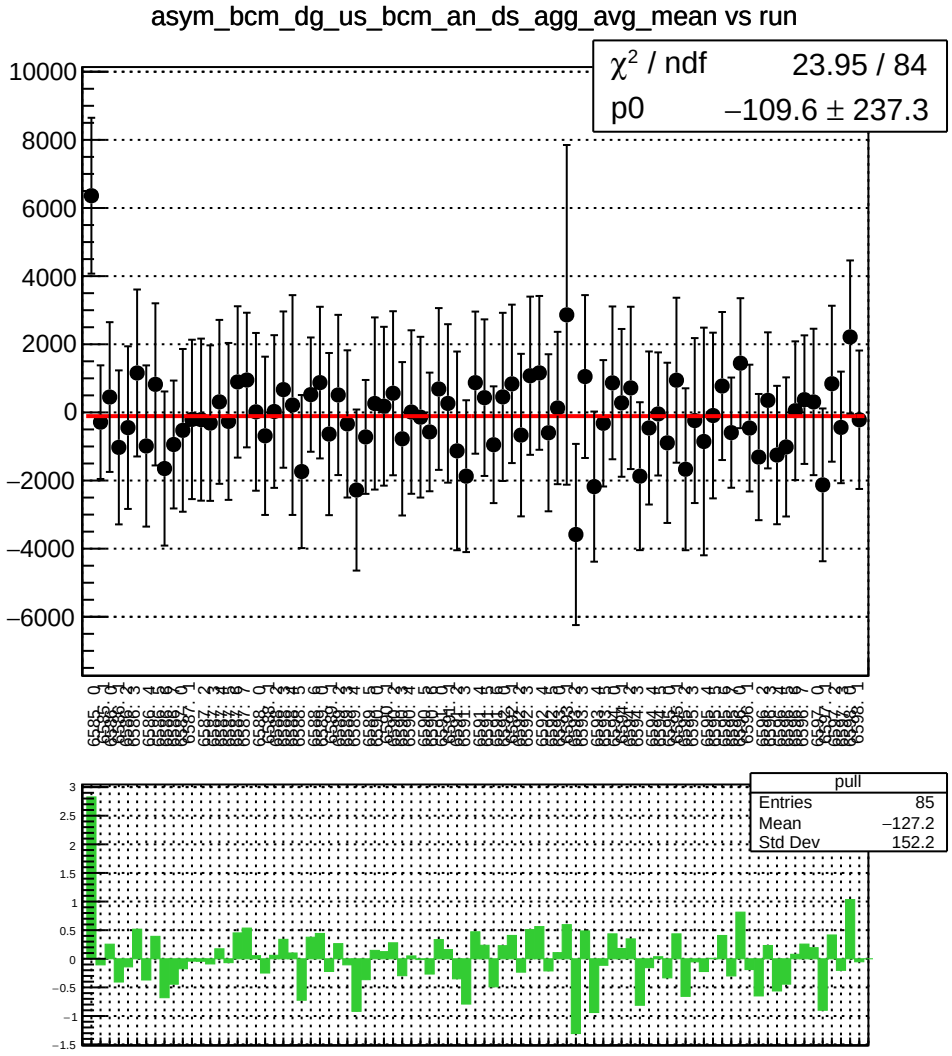

pull1D
Entries 85
Mean 0.007537
Std Dev 0.5241

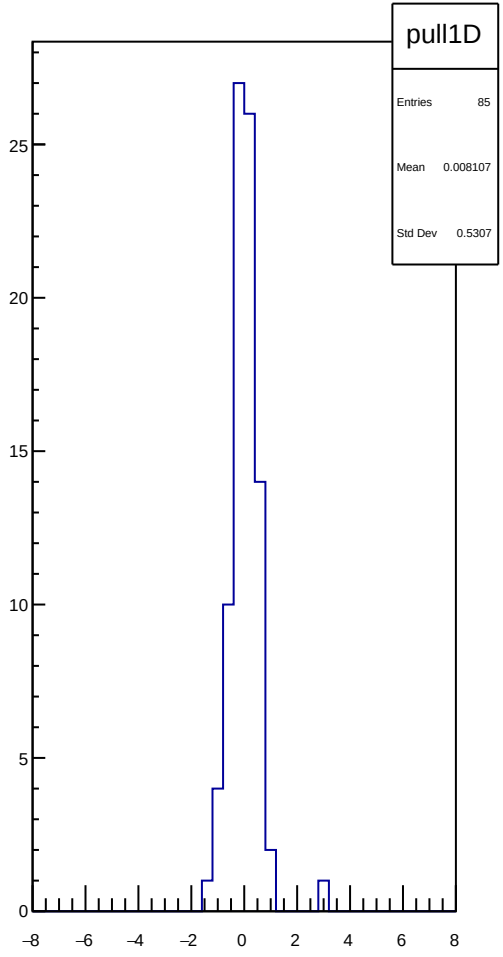

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ^2 / ndf 1.651e+04 / 84
p0 215 ± 0.1662
500
450
400
350
300
250
200
150

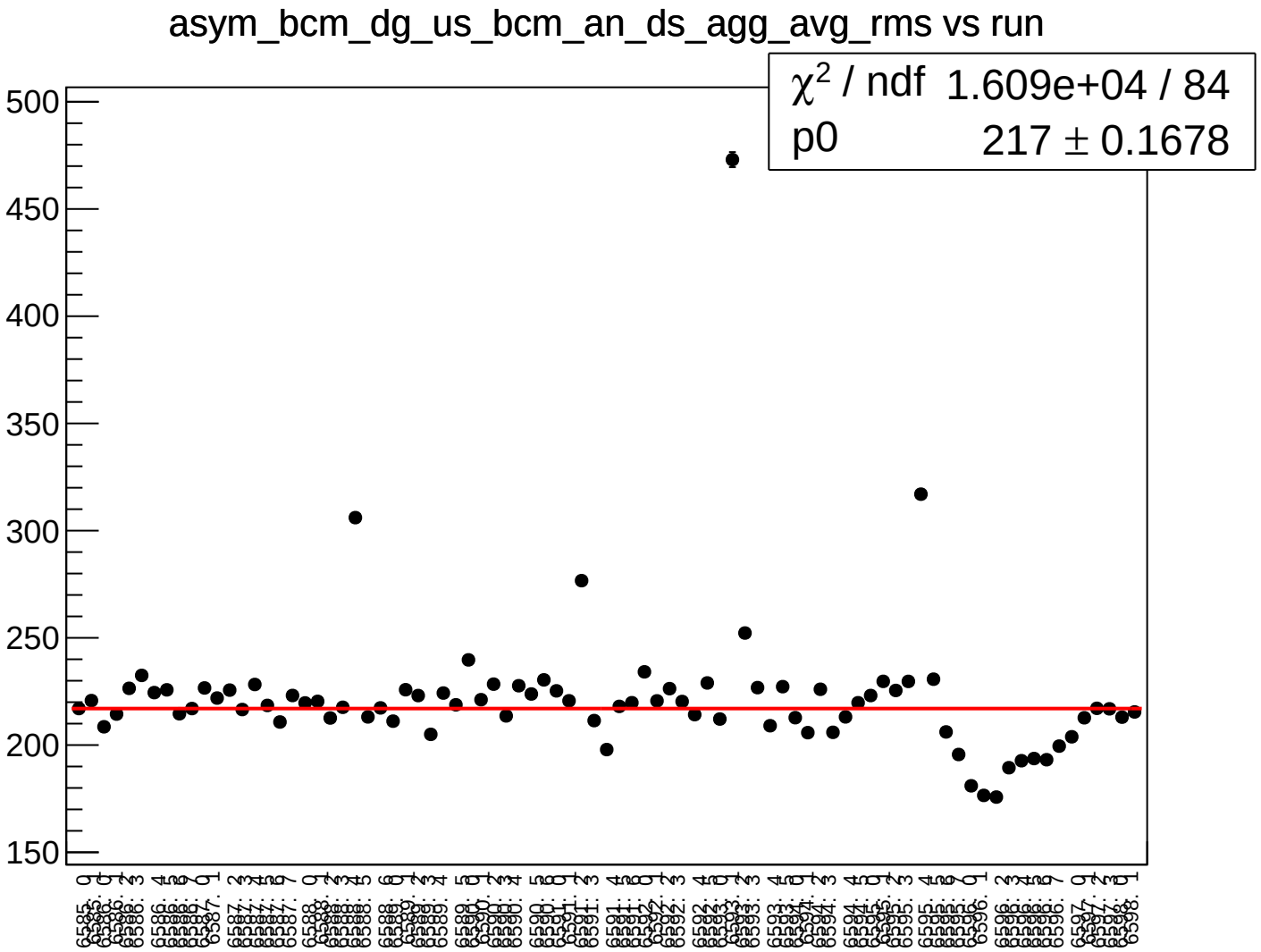

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 82.44 / 84
p0 1.847 ± 11.27
pull
Entries 85
Mean −2301
Std Dev 2378

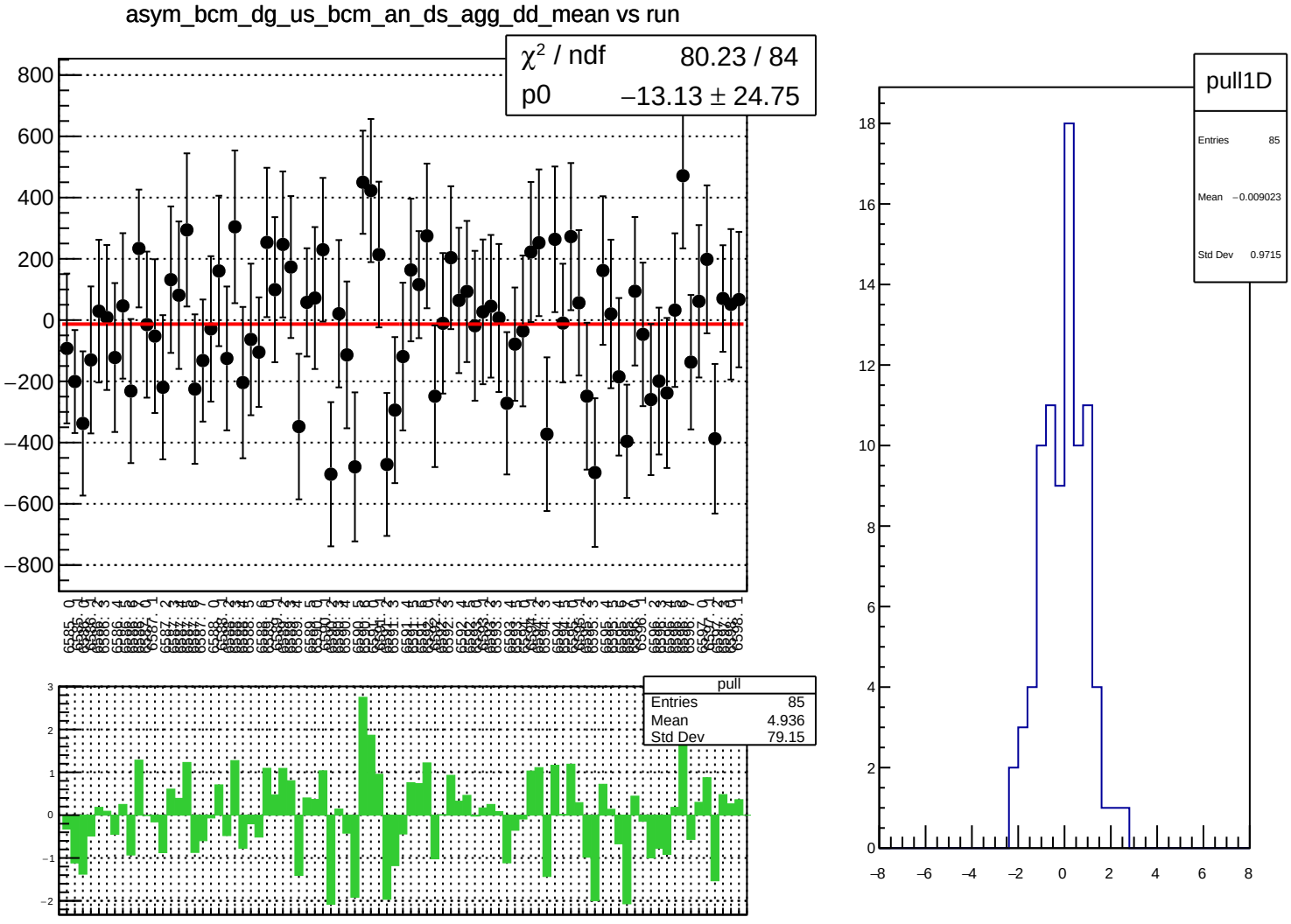

pull1D
Entries 85
Mean −0.0007384
Std Dev 0.9848

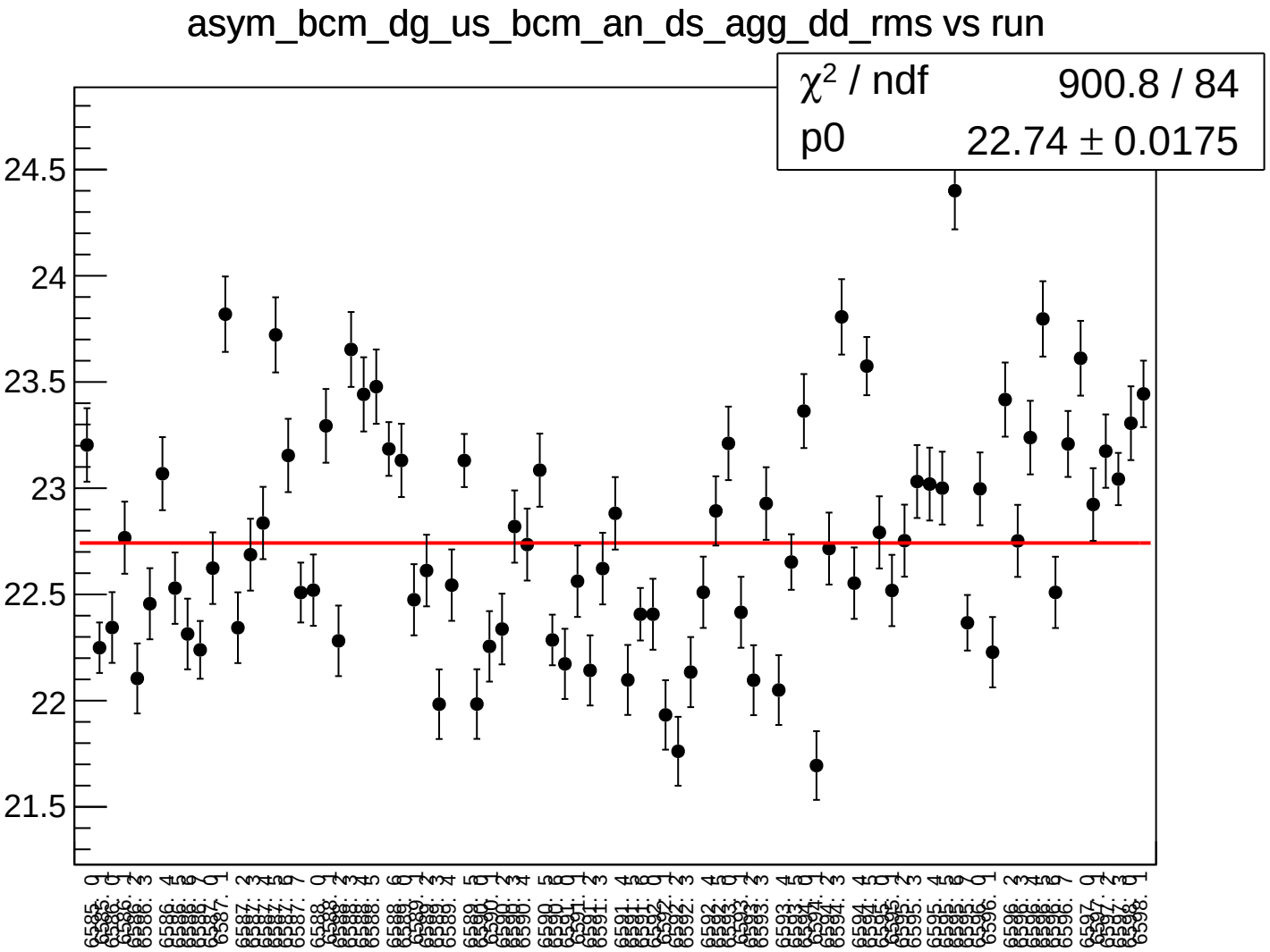

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 1.662e+04 / 84
p0 10.31 ± 0.00797
14
13
12
11
10
9

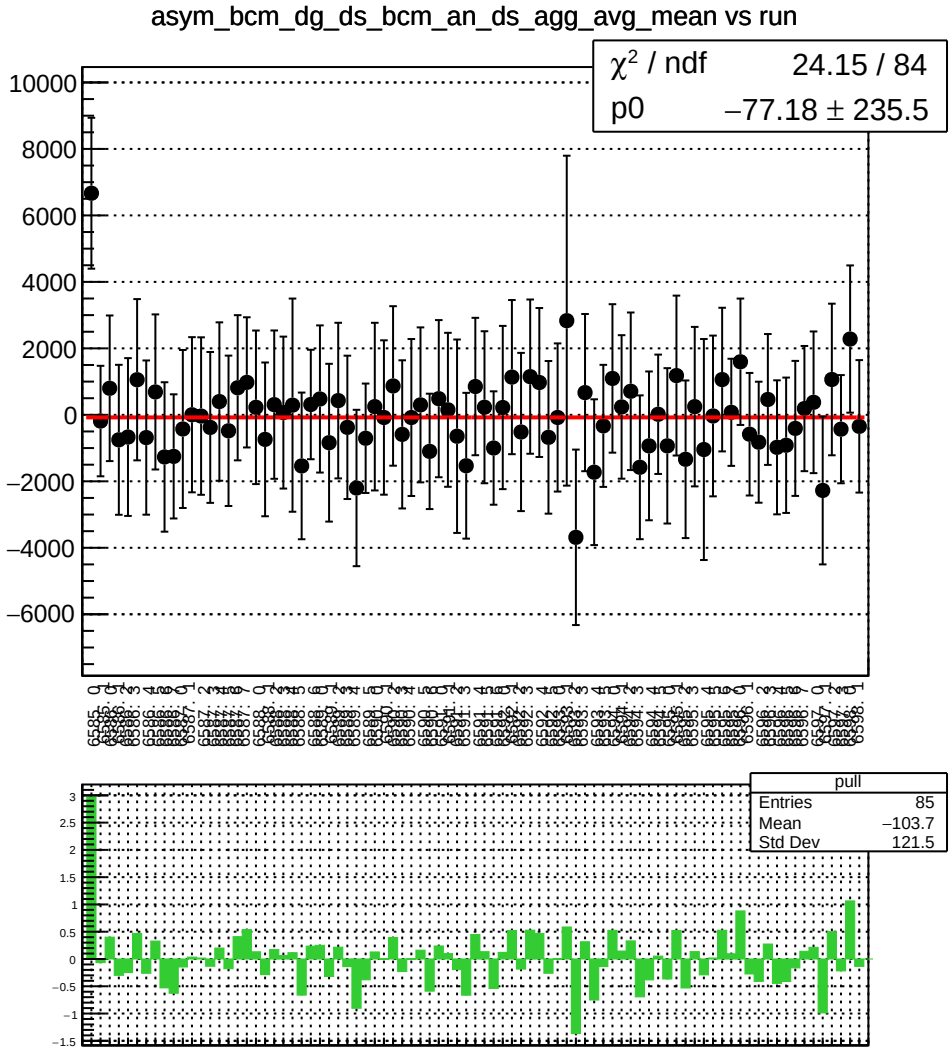

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.95 / 84
p0 −109.6 ± 237.3
pull
Entries 85
Mean −127.2
Std Dev 152.2

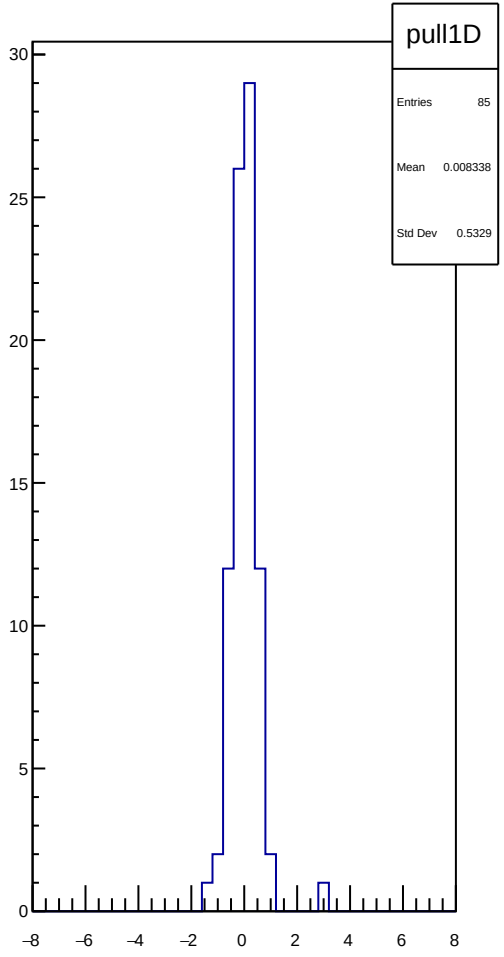

pull1D
Entries 85
Mean 0.008107
Std Dev 0.5307

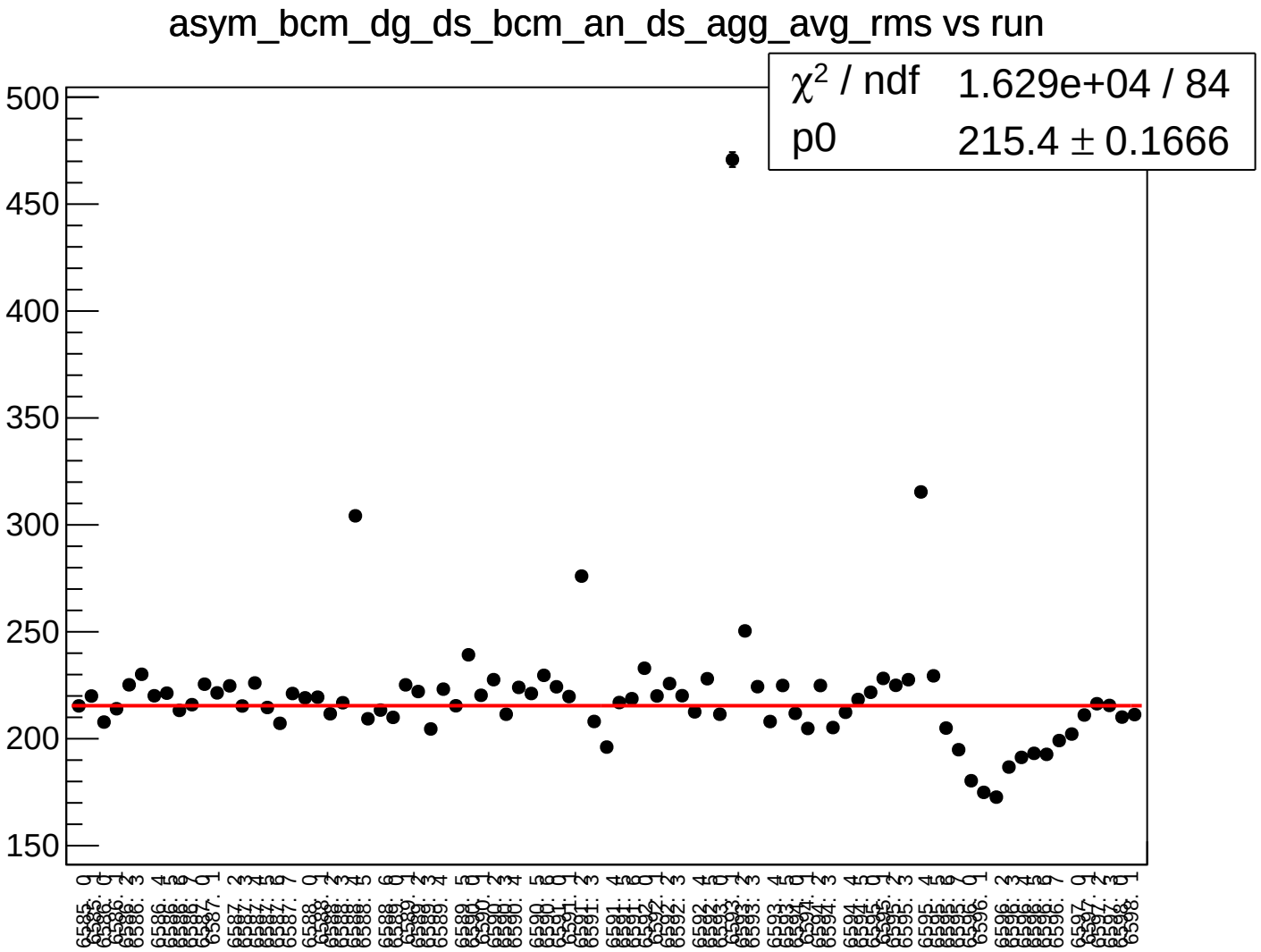

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 1.609e+04 / 84
p0 217 ± 0.1678
500
450
400
350
300
250
200
150

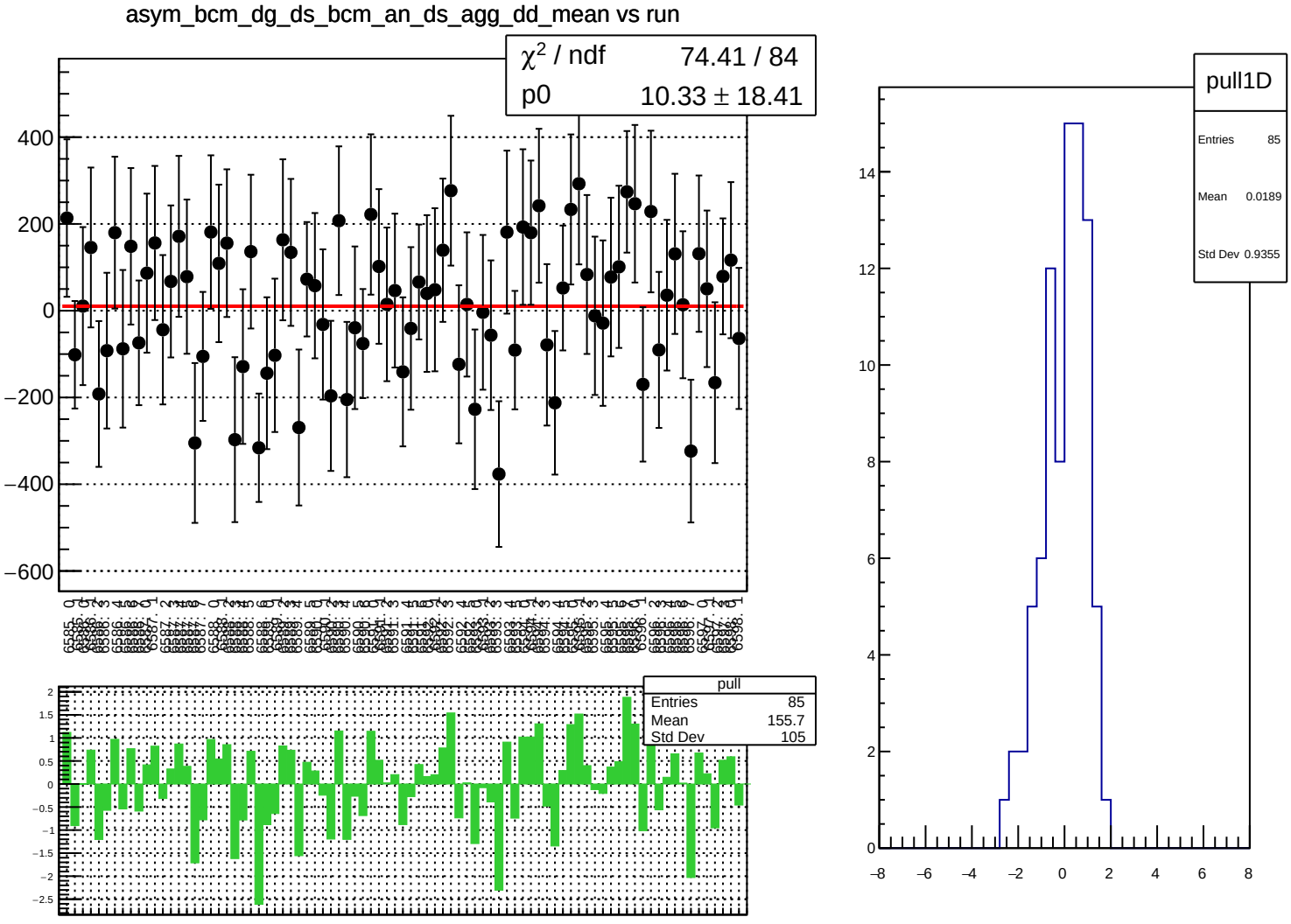

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 80.23 / 84
p0 −13.13 ± 24.75
pull
Entries 85
Mean 4.936
Std Dev 79.15
pull1D
Entries 85
Mean −0.009023
Std Dev 0.9715

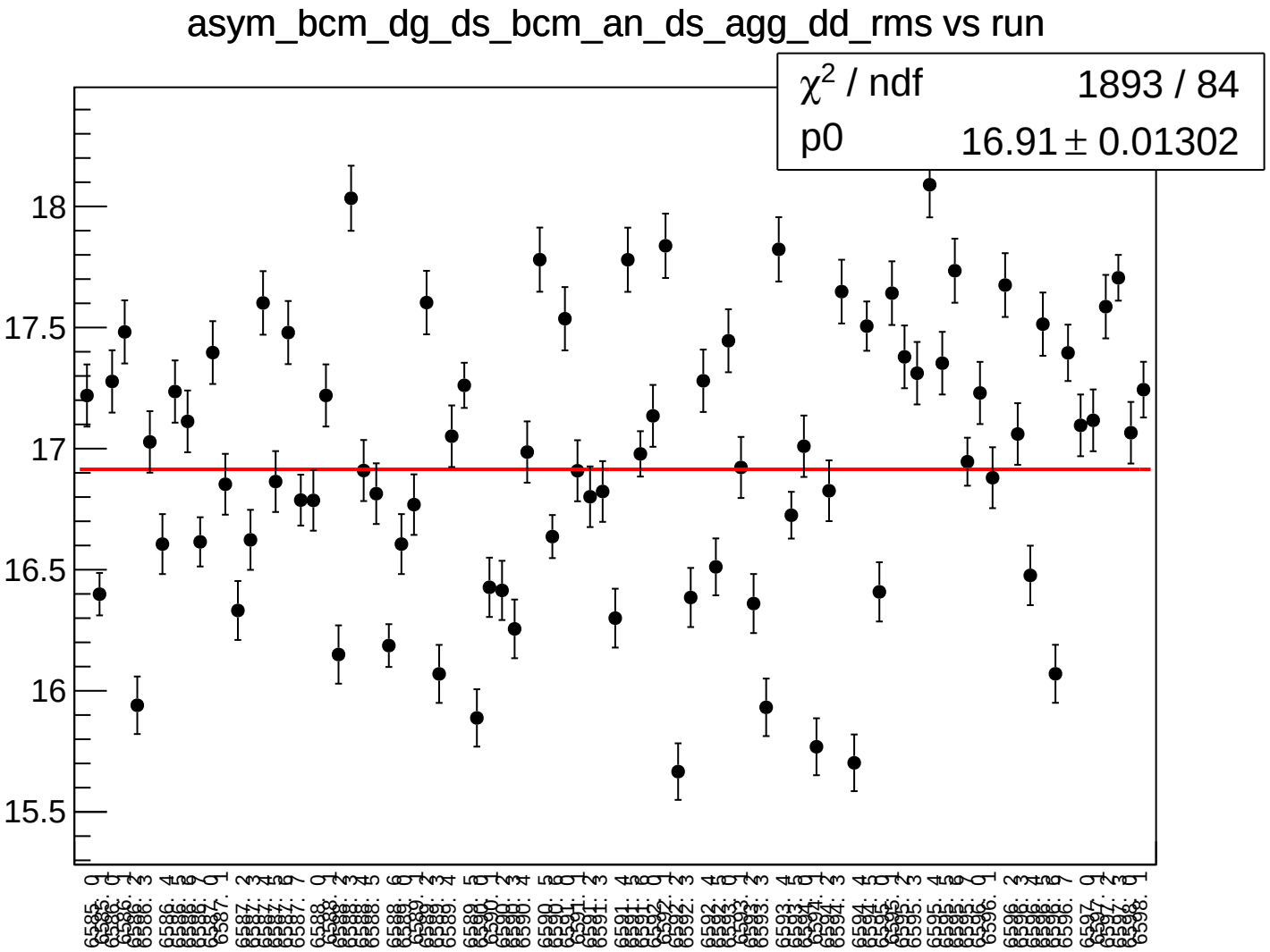

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 900.8 / 84
p0 22.74 ± 0.0175
24.5
24
23.5
23
22.5
22
21.5

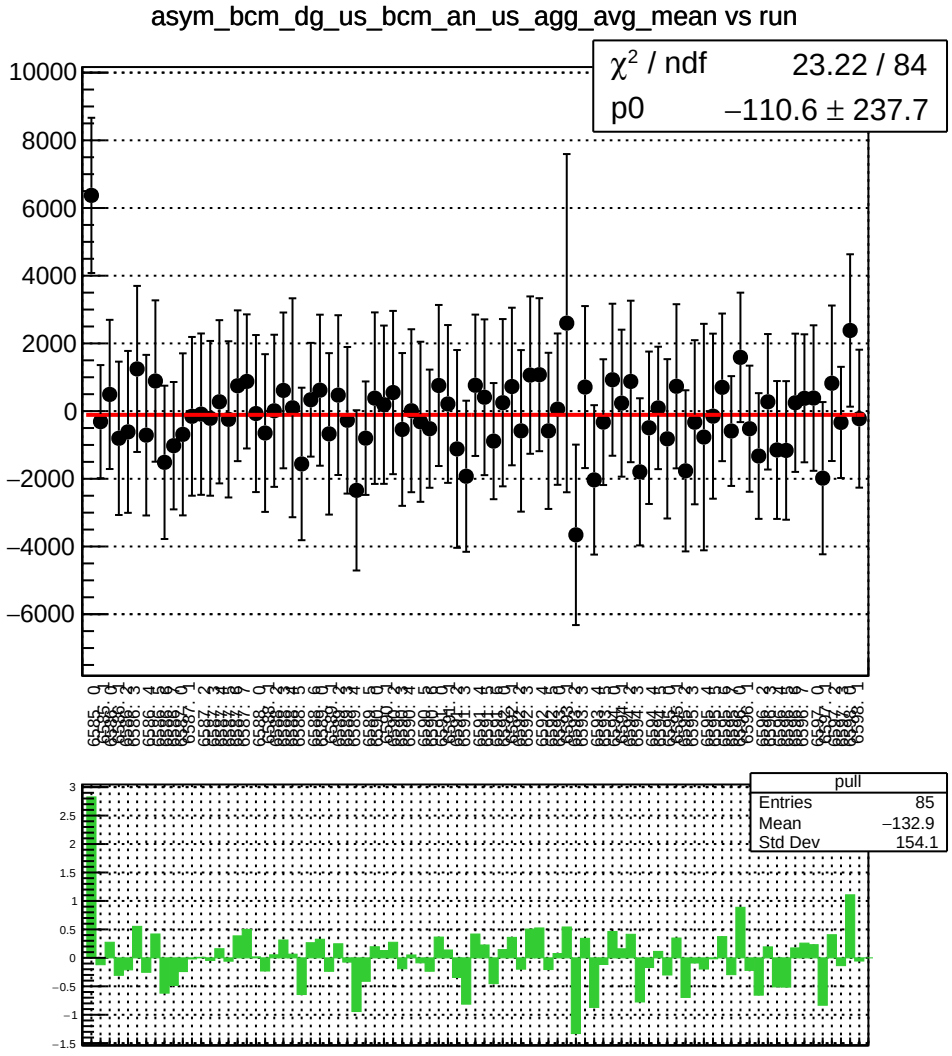

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.15 / 84
p0 −77.18 ± 235.5
pull
Entries 85
Mean −103.7
Std Dev 121.5

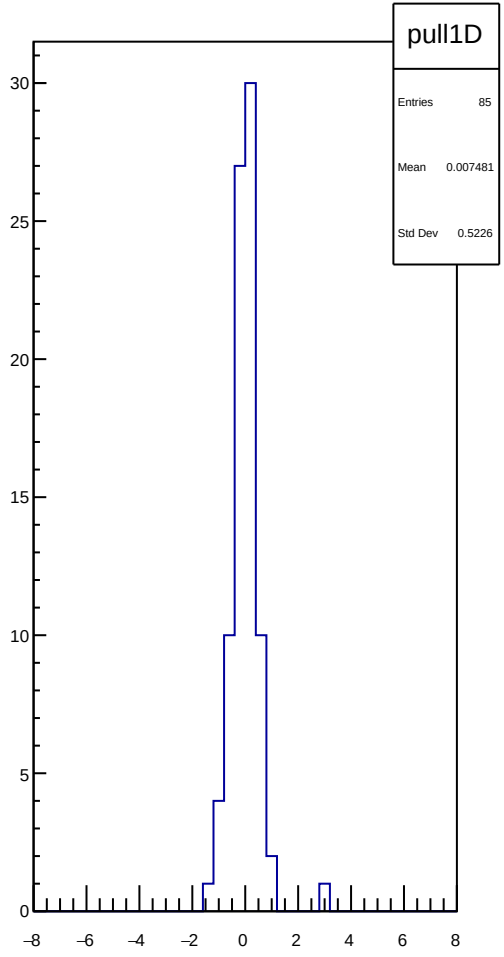

pull1D
Entries 85
Mean 0.008338
Std Dev 0.5329

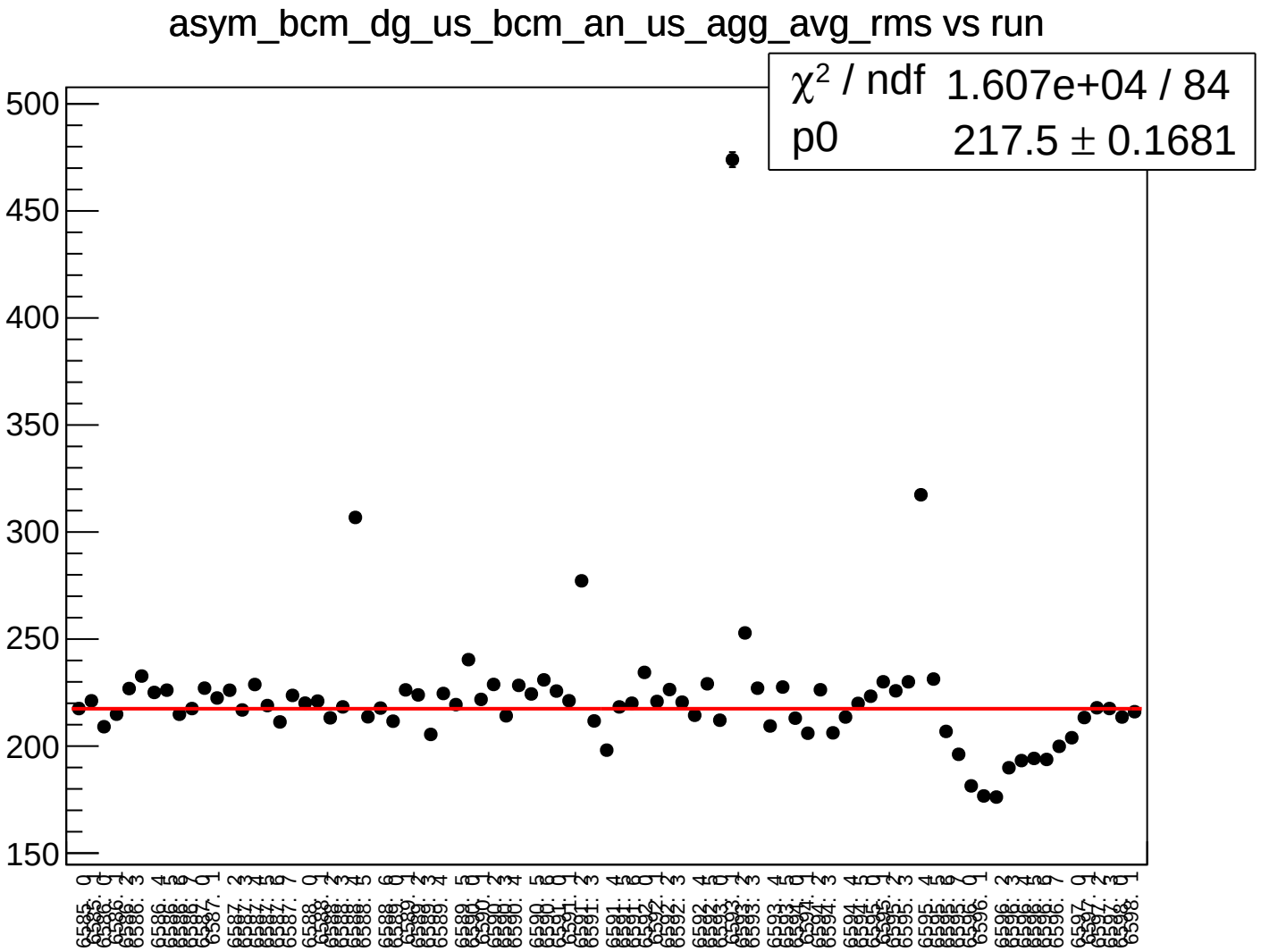

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ2 / ndf 1.629e+04 / 84
p0 215.4 ± 0.1666
500
450
400
350
300
250
200
150

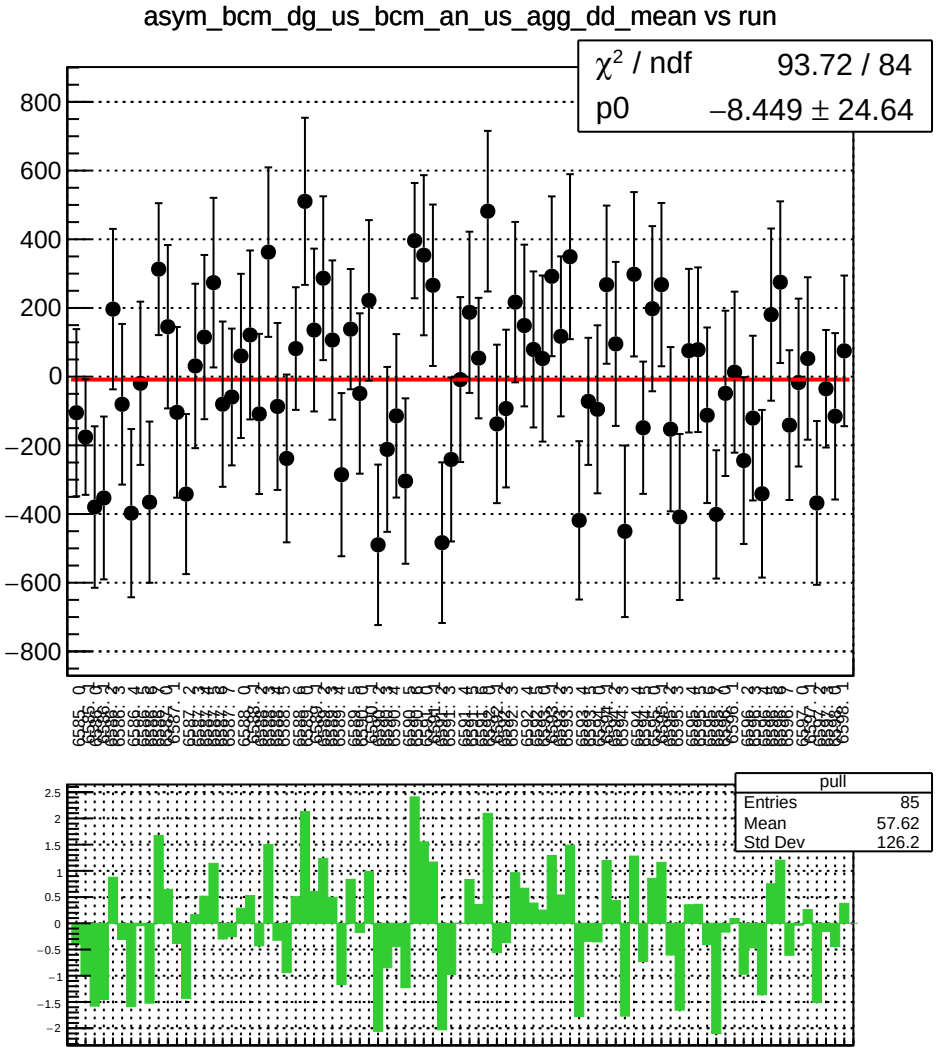

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 74.41 / 84
p0 10.33 ± 18.41
pull
Entries 85
Mean 155.7
Std Dev 105
pull1D
Entries 85
Mean 0.0189
Std Dev 0.9355

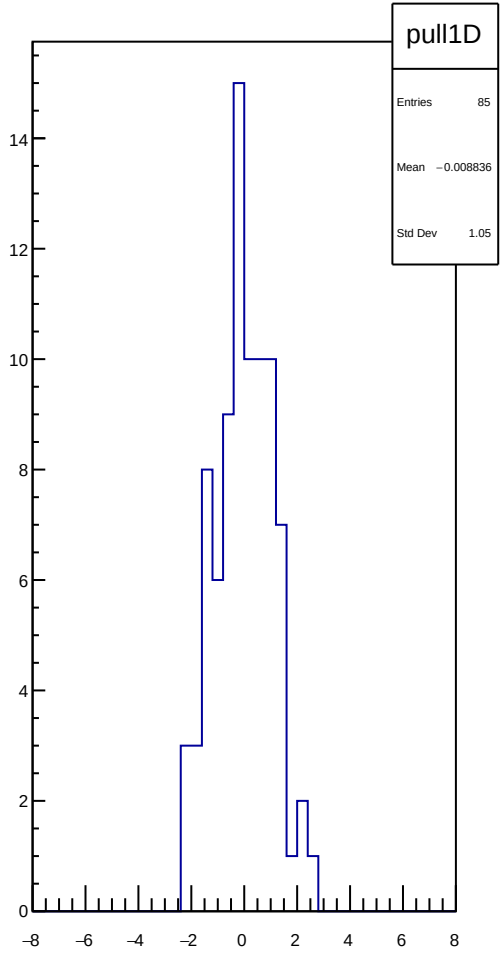

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 1893 / 84
p0 16.91 ± 0.01302
18
17.5
17
16.5
16
15.5

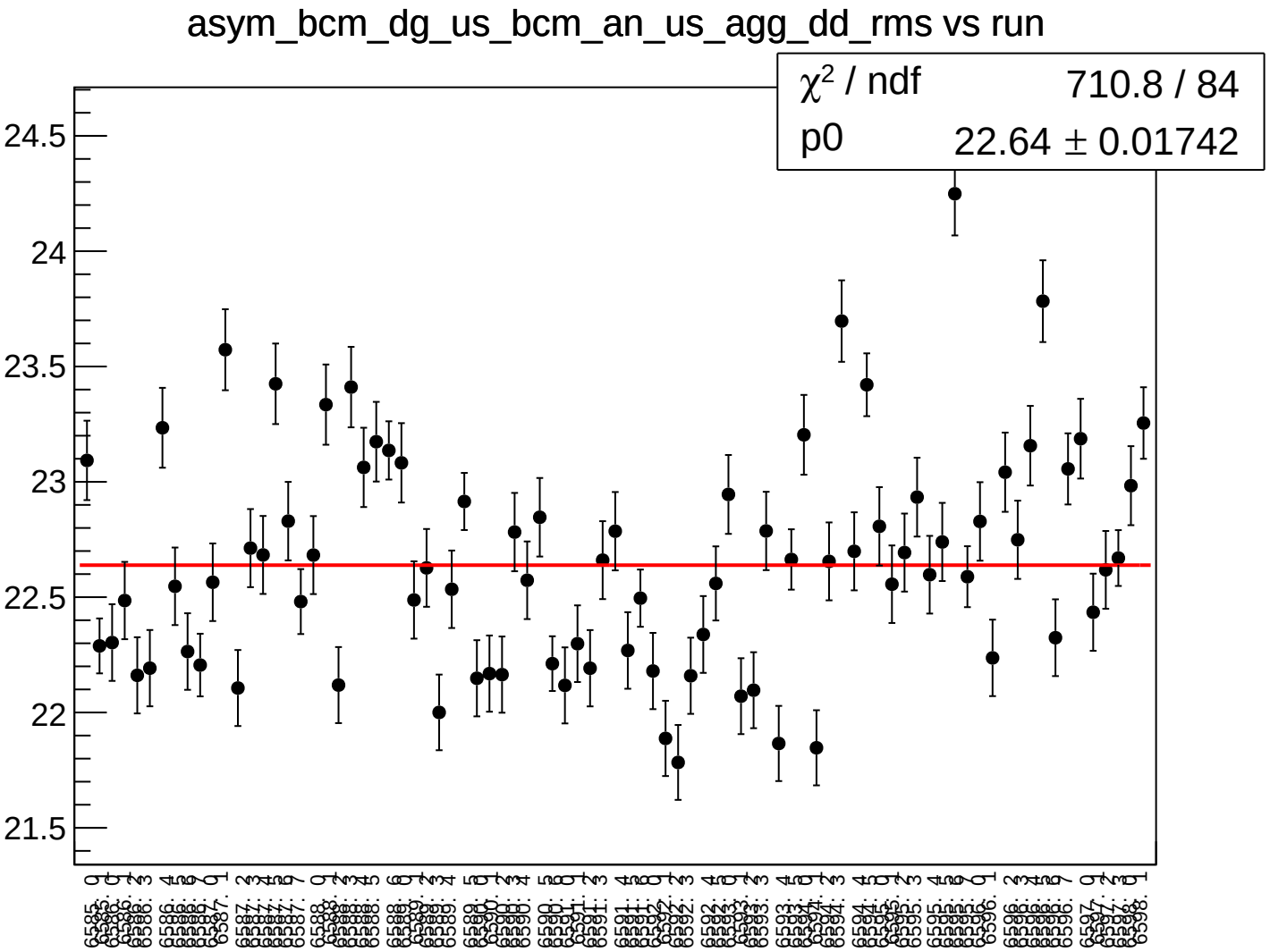

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.22 / 84
p0 −110.6 ± 237.7
pull
Entries 85
Mean −132.9
Std Dev 154.1

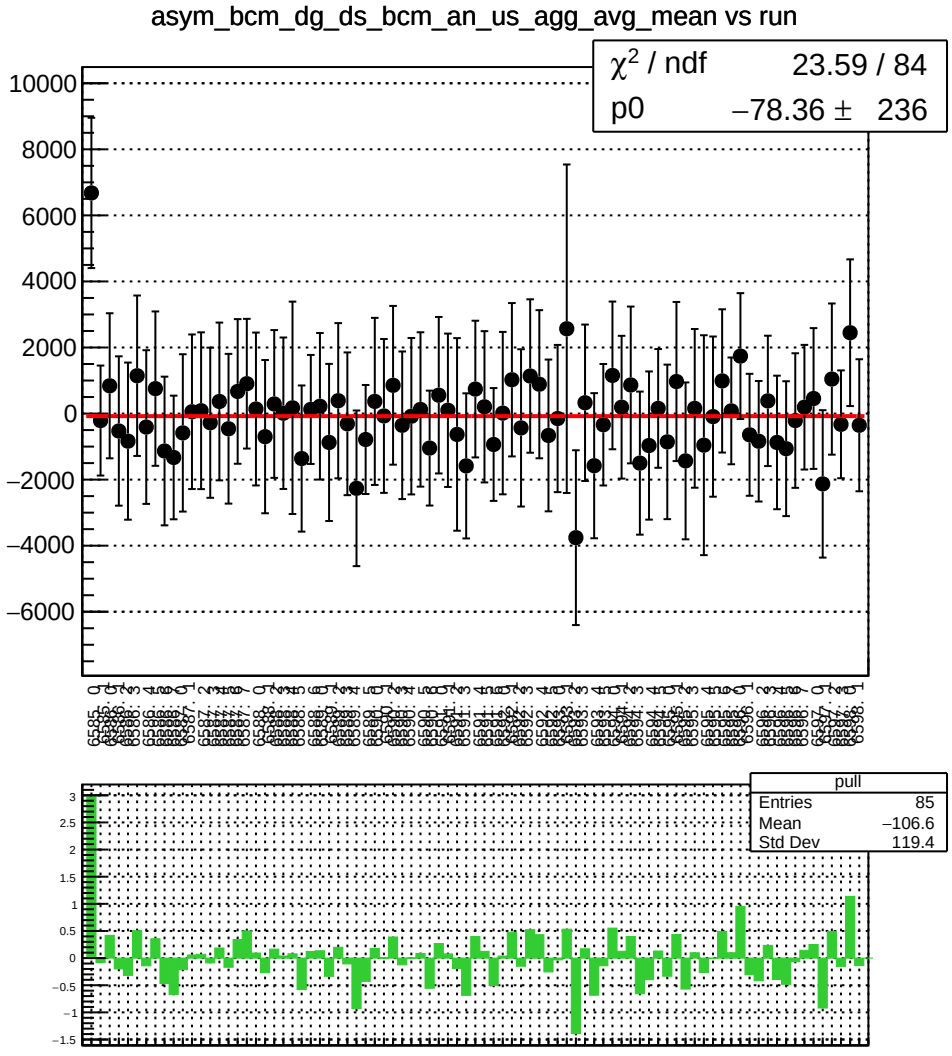

pull1D
Entries 85
Mean 0.007481
Std Dev 0.5226

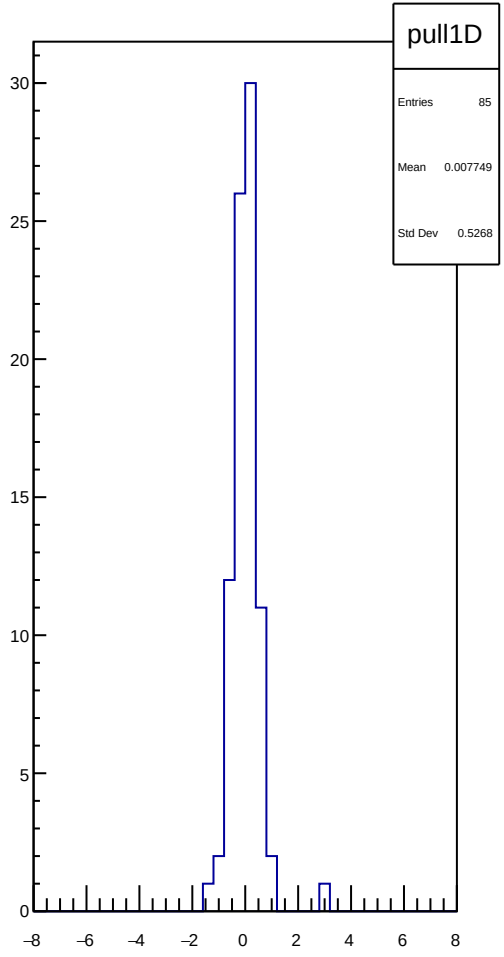

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.607e+04 / 84
p0 217.5 ± 0.1681
500
450
400
350
300
250
200
150

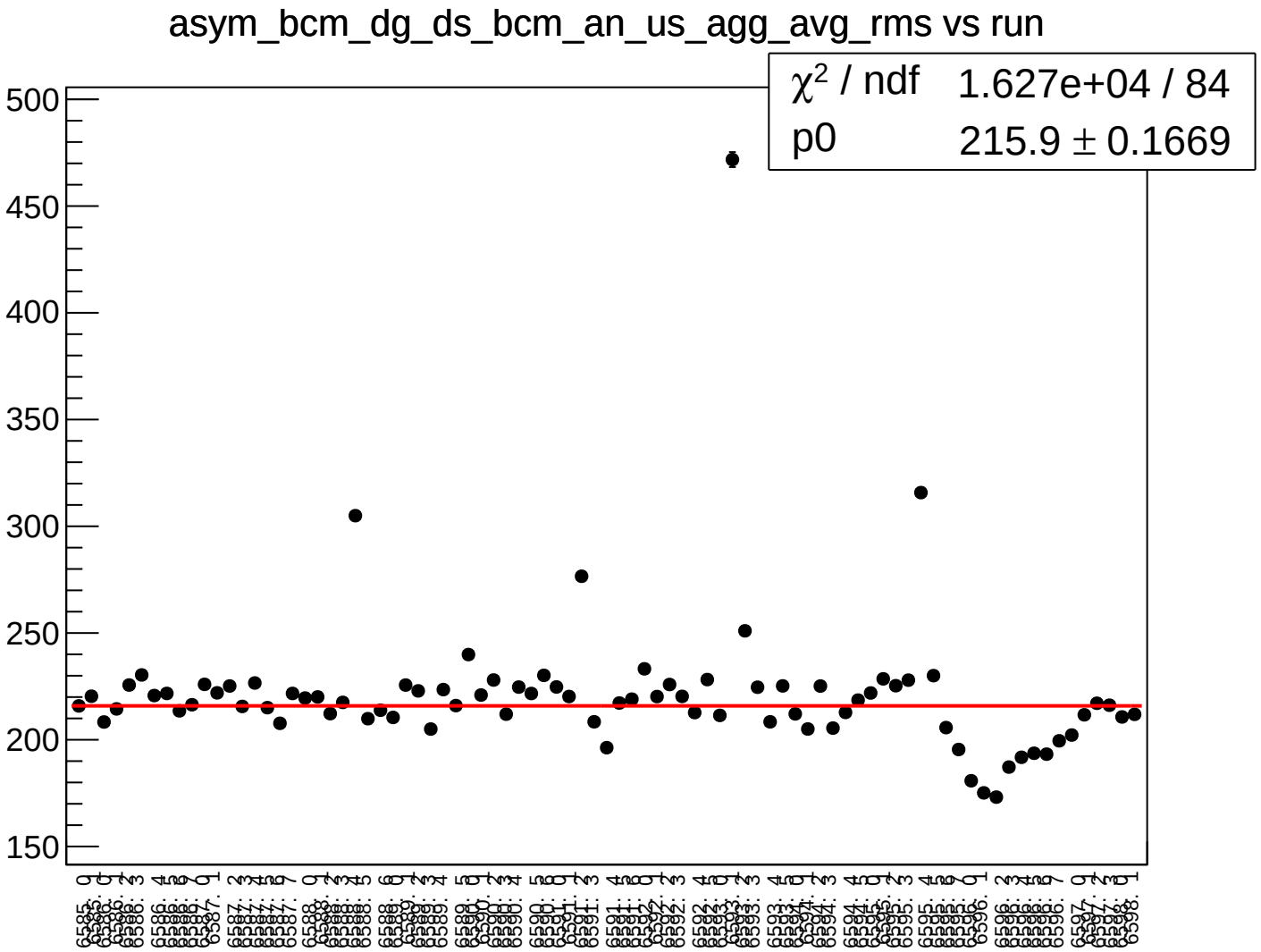

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 93.72 / 84
p0 −8.449 ± 24.64
pull
Entries 85
Mean 57.62
Std Dev 126.2

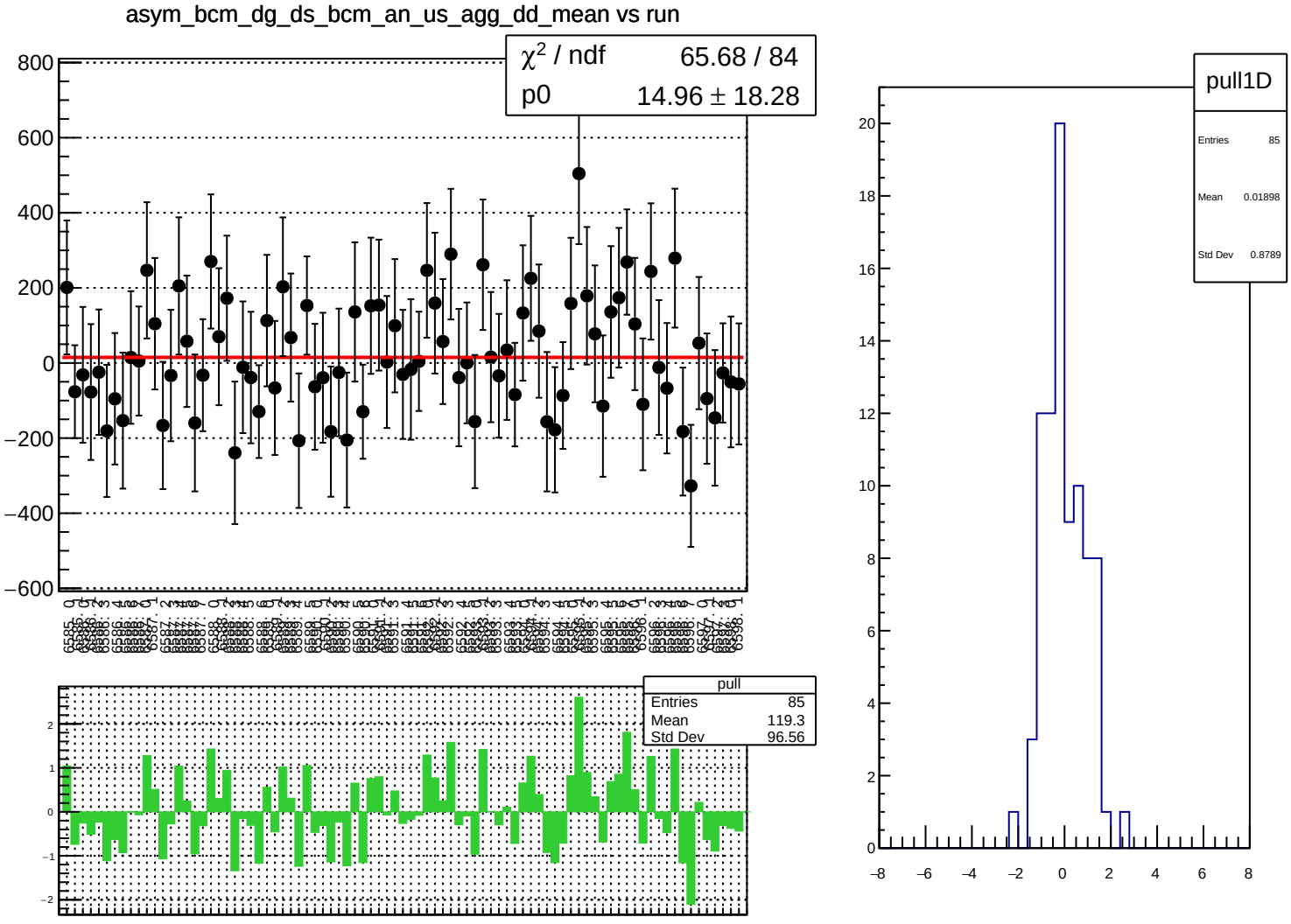

pull1D
Entries 85
Mean −0.008836
Std Dev 1.05

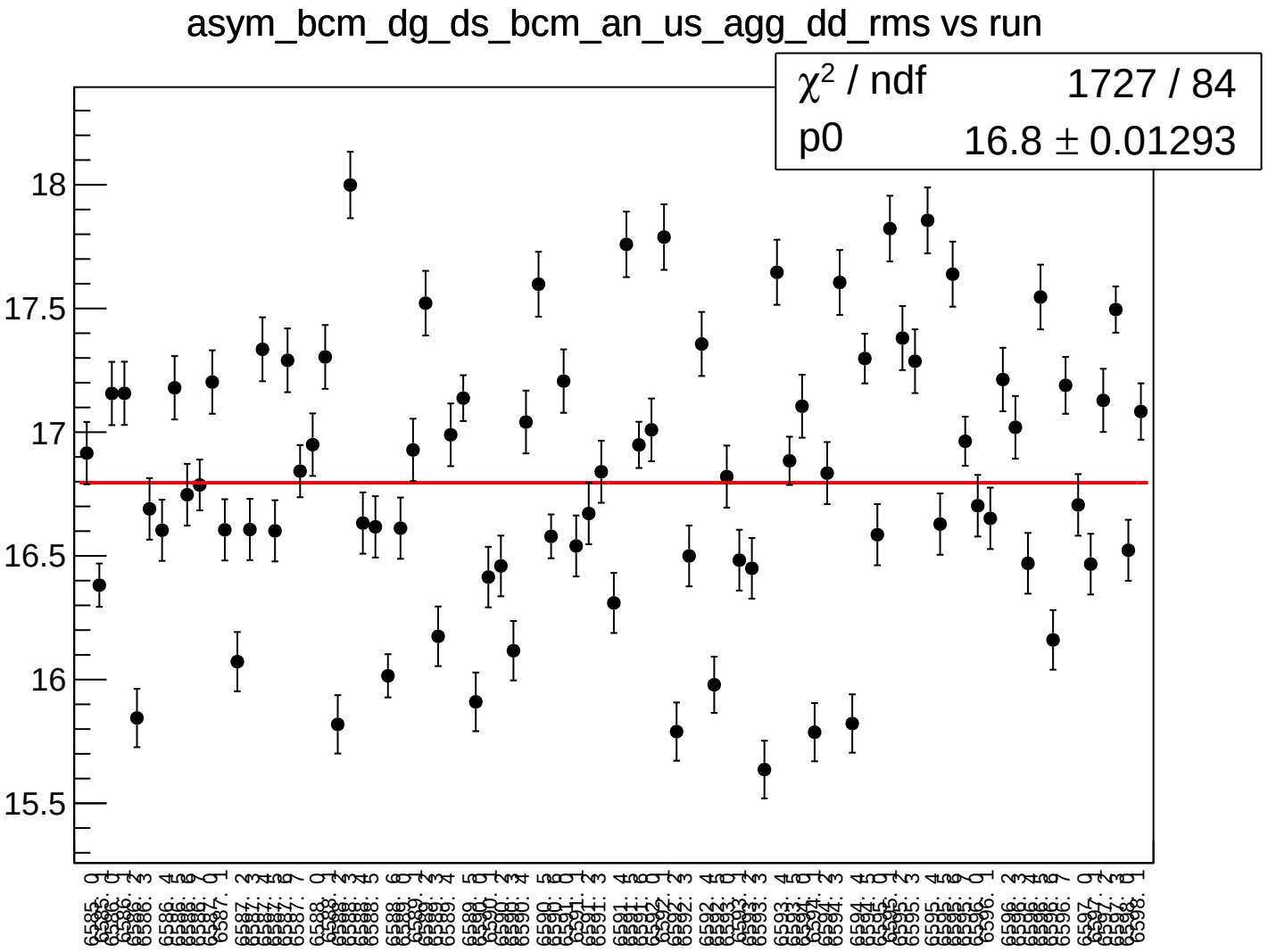

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ2 / ndf 710.8 / 84
p0 22.64 ± 0.01742
24.5
24
23.5
23
22.5
22
21.5

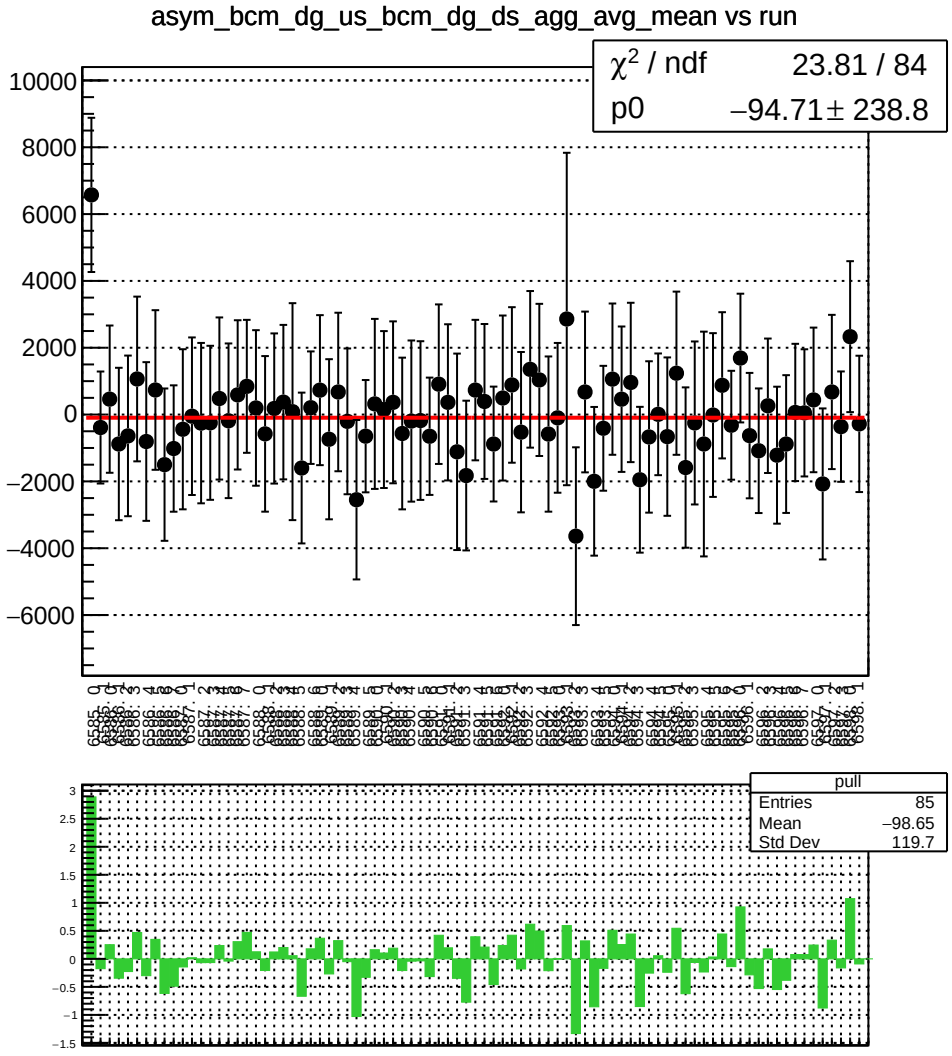

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.59 / 84
p0 −78.36 ± 236
pull
Entries 85
Mean −106.6
Std Dev 119.4

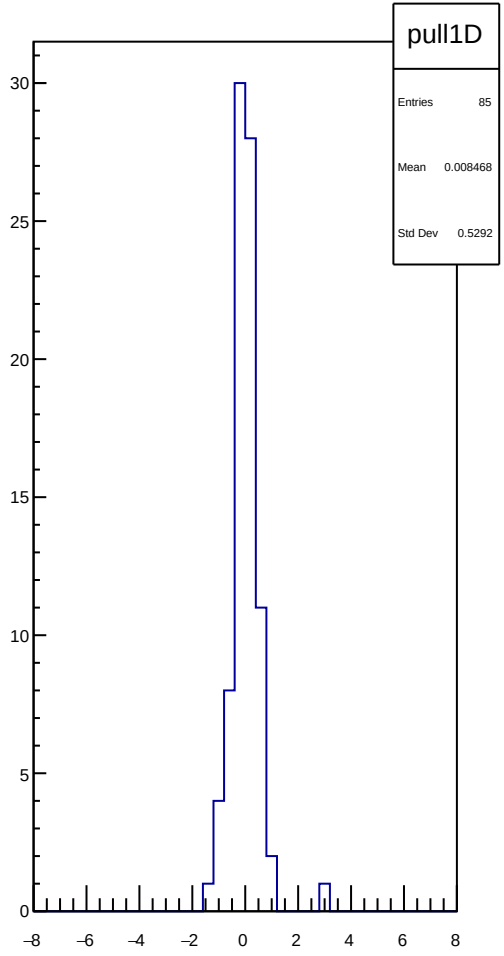

pull1D
Entries 85
Mean 0.007749
Std Dev 0.5268

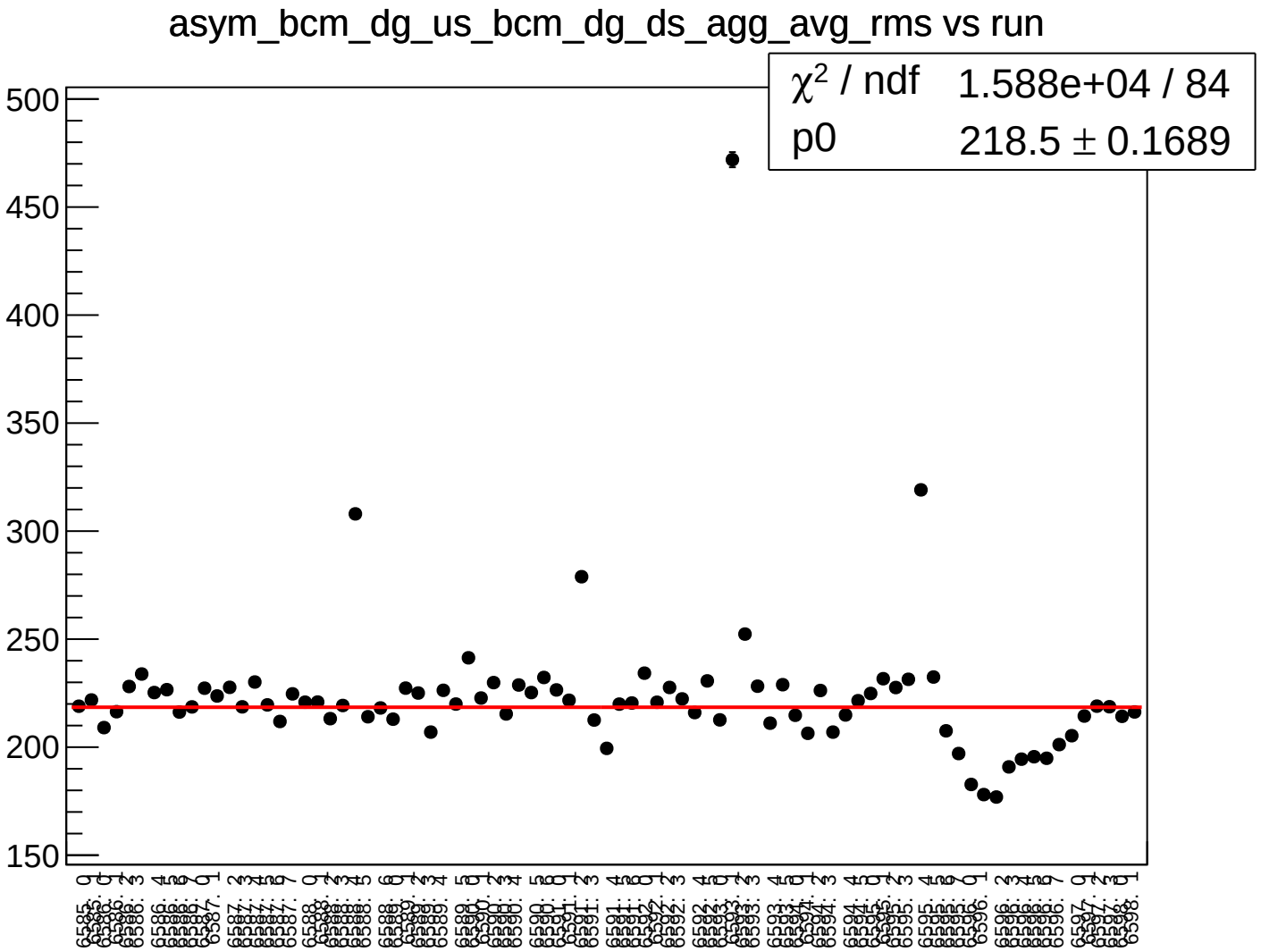

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ2 / ndf 1.627e+04 / 84
p0 215.9 ± 0.1669
500
450
400
350
300
250
200
150

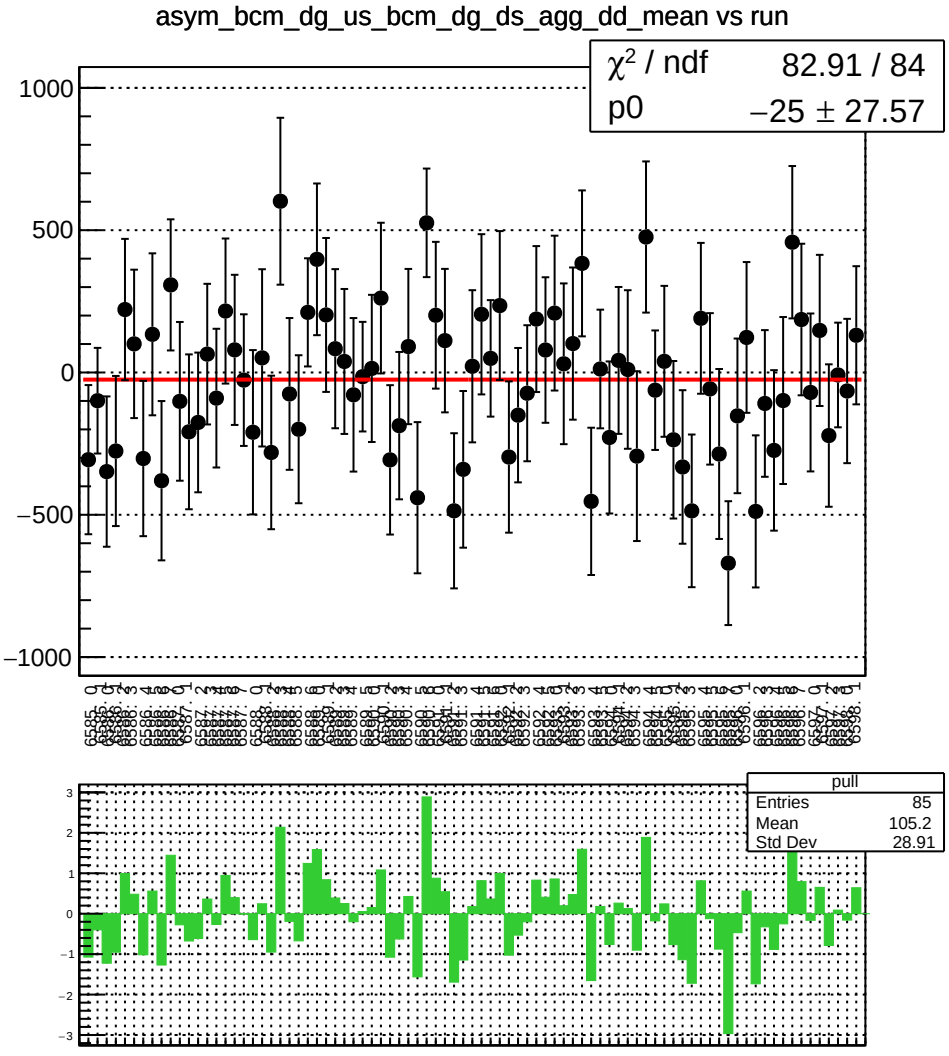

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.68 / 84
p0 14.96 ± 18.28
pull
Entries 85
Mean 119.3
Std Dev 96.56
pull1D
Entries 85
Mean 0.01898
Std Dev 0.8789

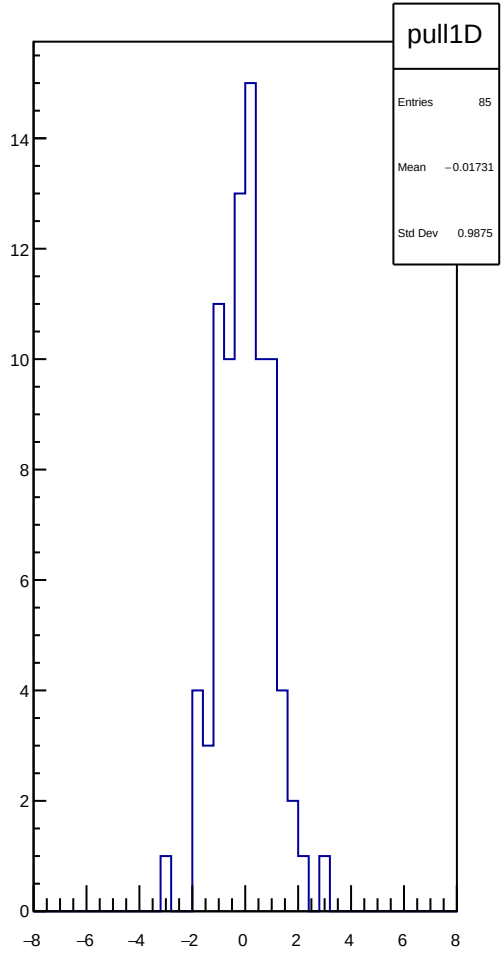

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ2 / ndf 1727 / 84
p0 16.8 ± 0.01293
18
17.5
17
16.5
16
15.5

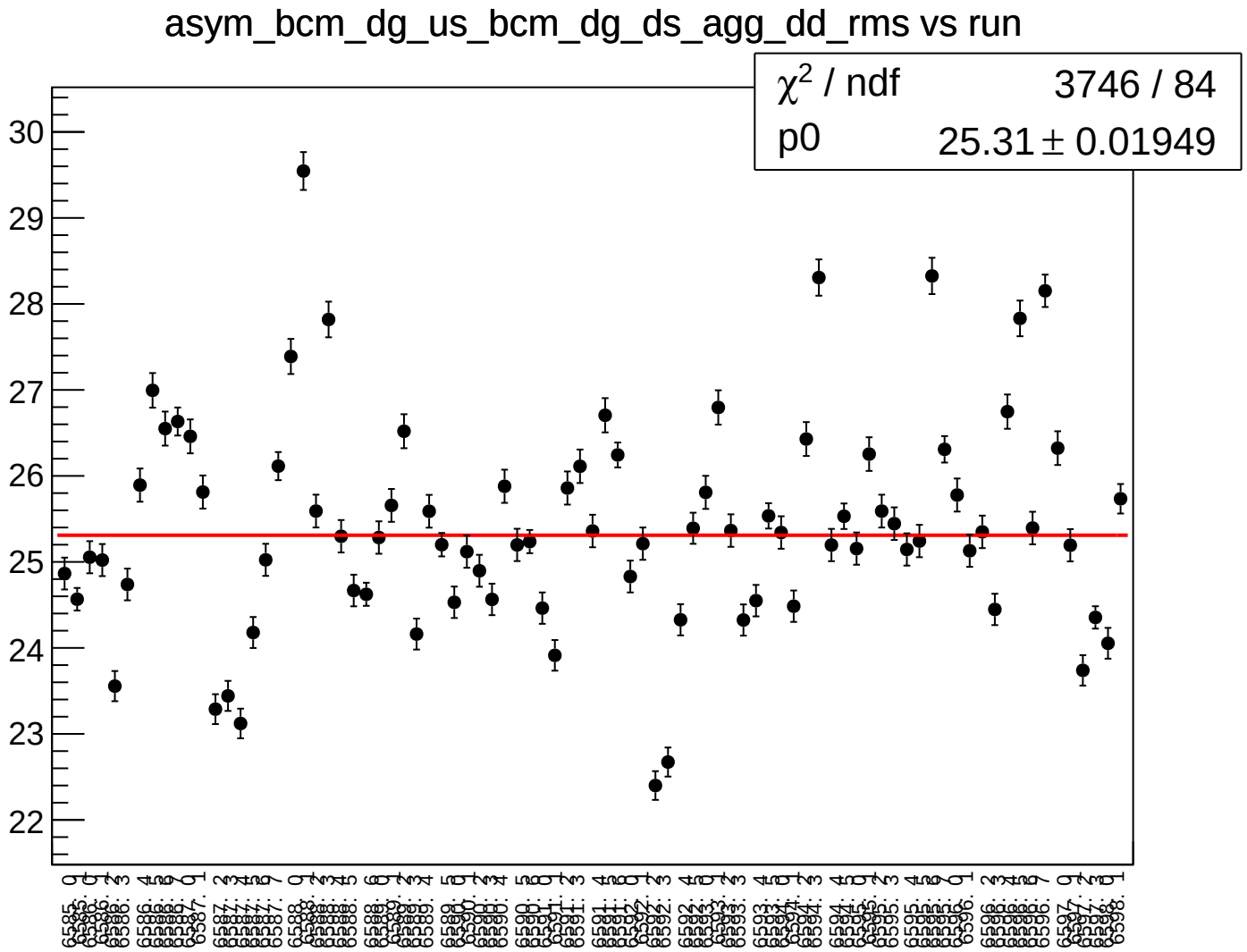

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.81 / 84
p0 −94.71 ± 238.8
pull
Entries 85
Mean −98.65
Std Dev 119.7

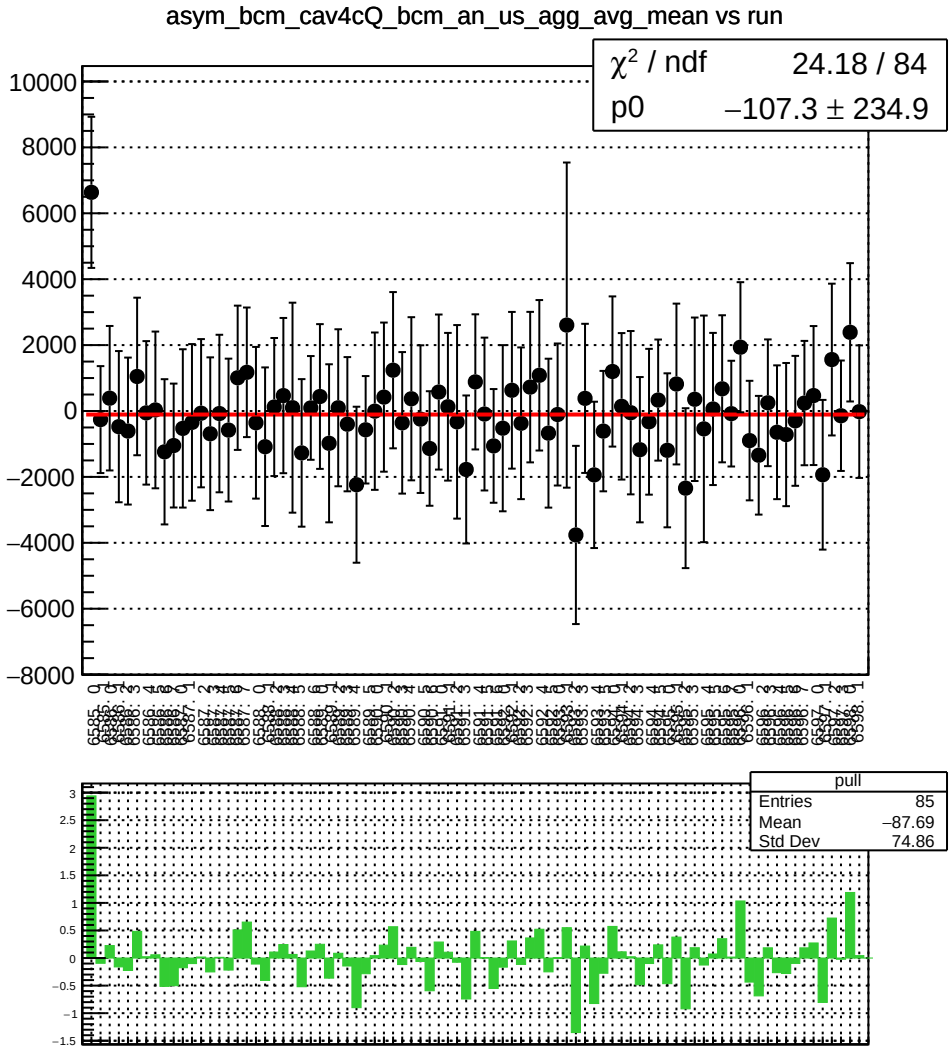

pull1D
Entries 85
Mean 0.008468
Std Dev 0.5292

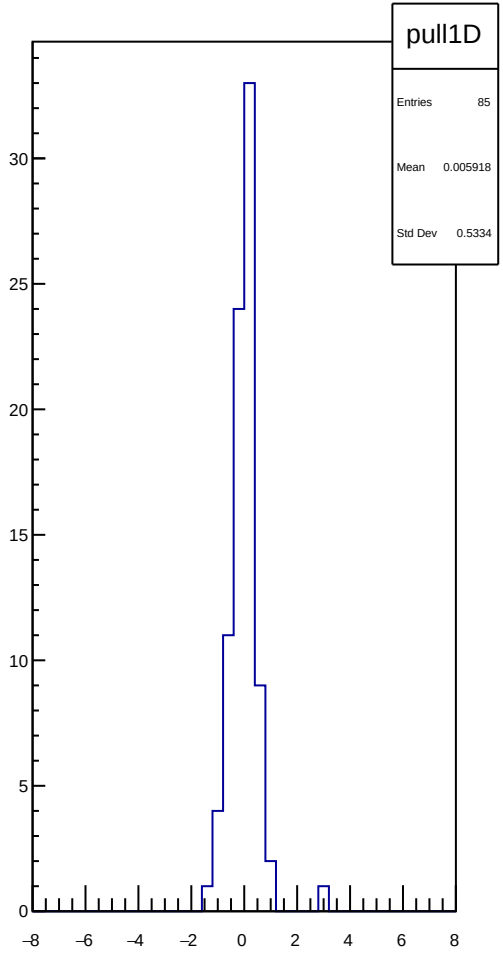

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.588e+04 / 84
p0 218.5 ± 0.1689
500
450
400
350
300
250
200
150

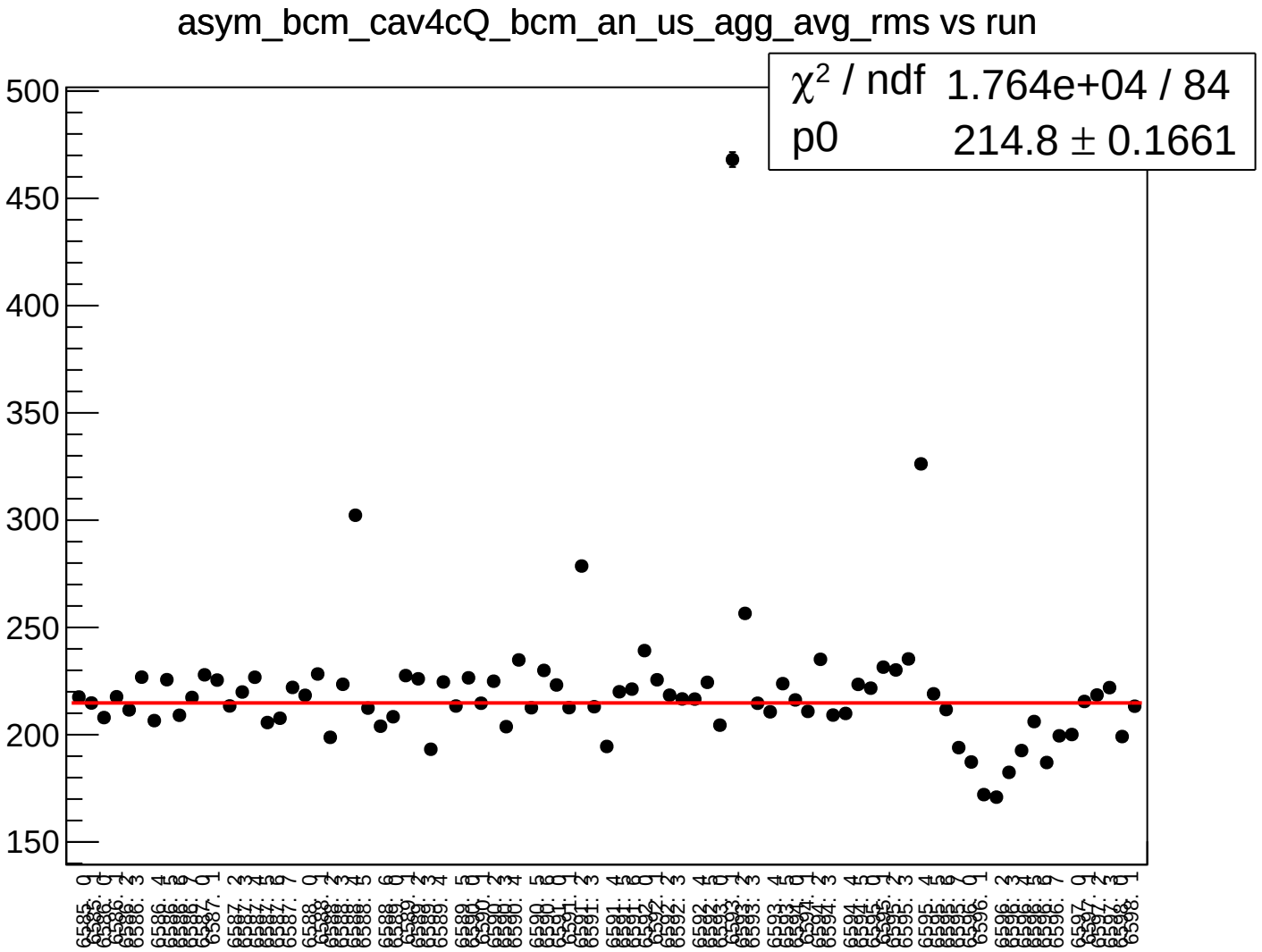

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 82.91 / 84
p0 −25 ± 27.57
1000
500
0
−500
−1000
pull
Entries 85
Mean 105.2
Std Dev 28.91
3
2
1
0
−1
−2
−3

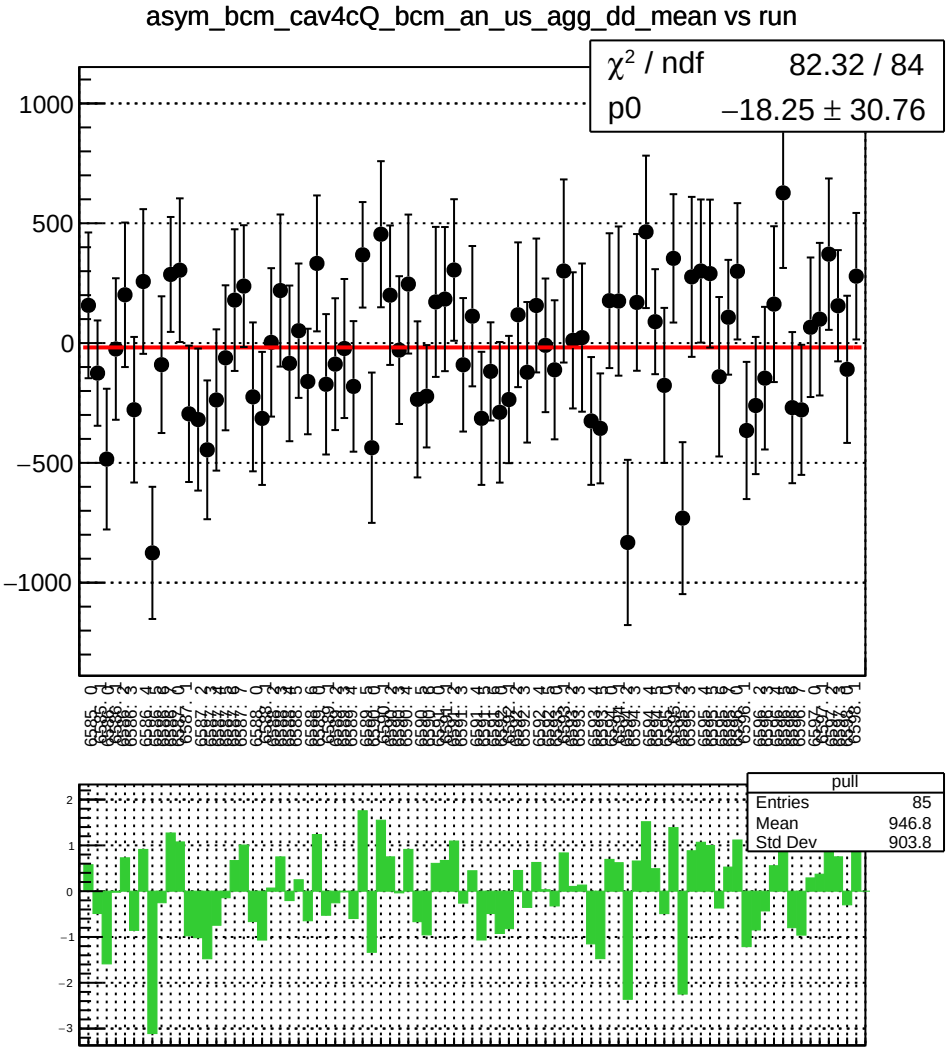

pull1D
Entries 85
Mean −0.01731
Std Dev 0.9875
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

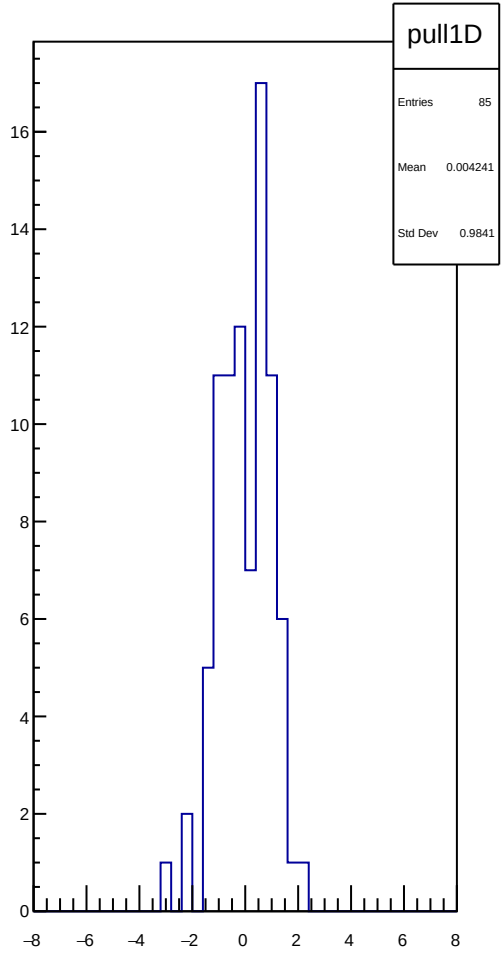

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ^2 / ndf 3746 / 84
p0 25.31 ± 0.01949
30
29
28
27
26
25
24
23
22

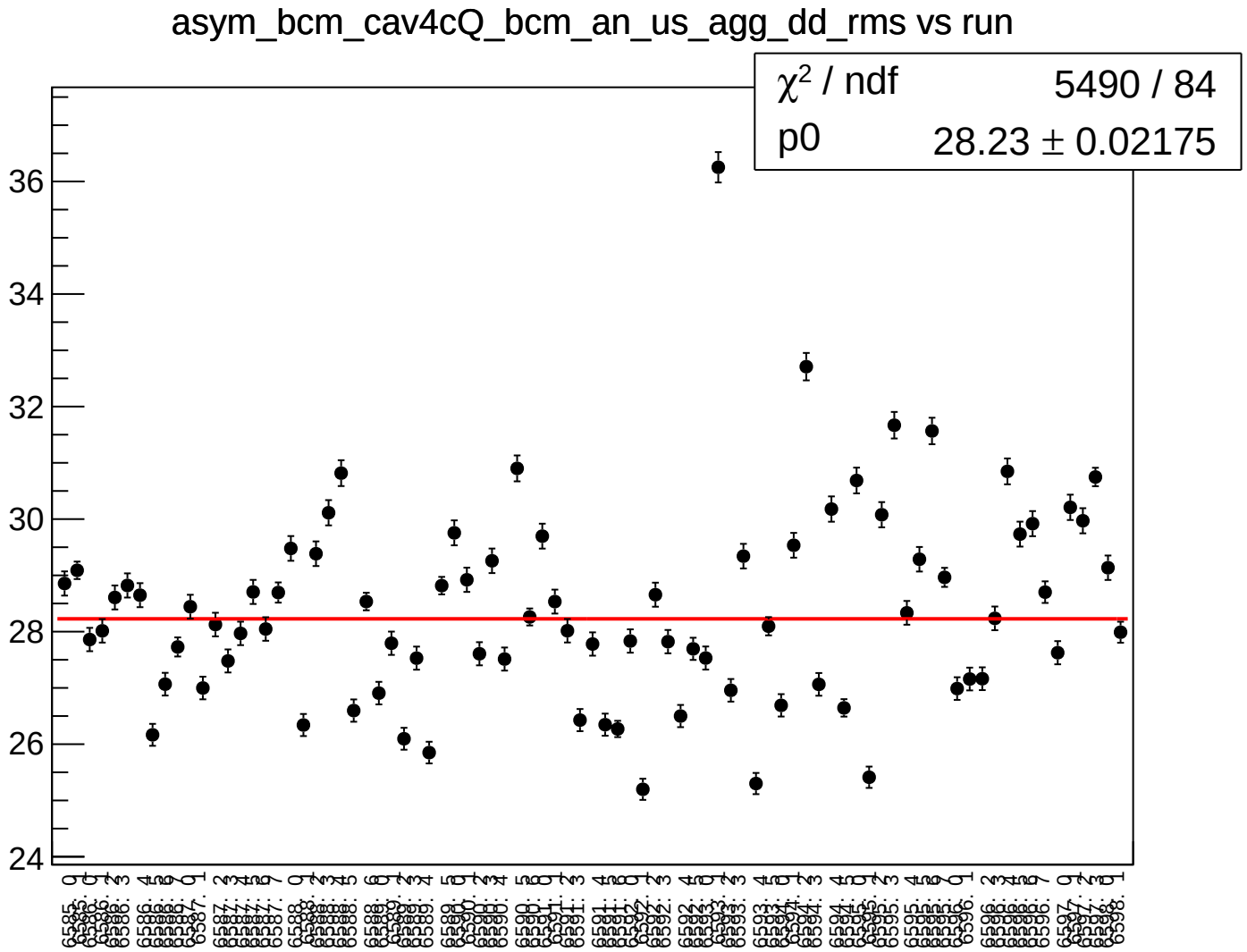

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.18 / 84
p0 −107.3 ± 234.9
pull
Entries 85
Mean −87.69
Std Dev 74.86

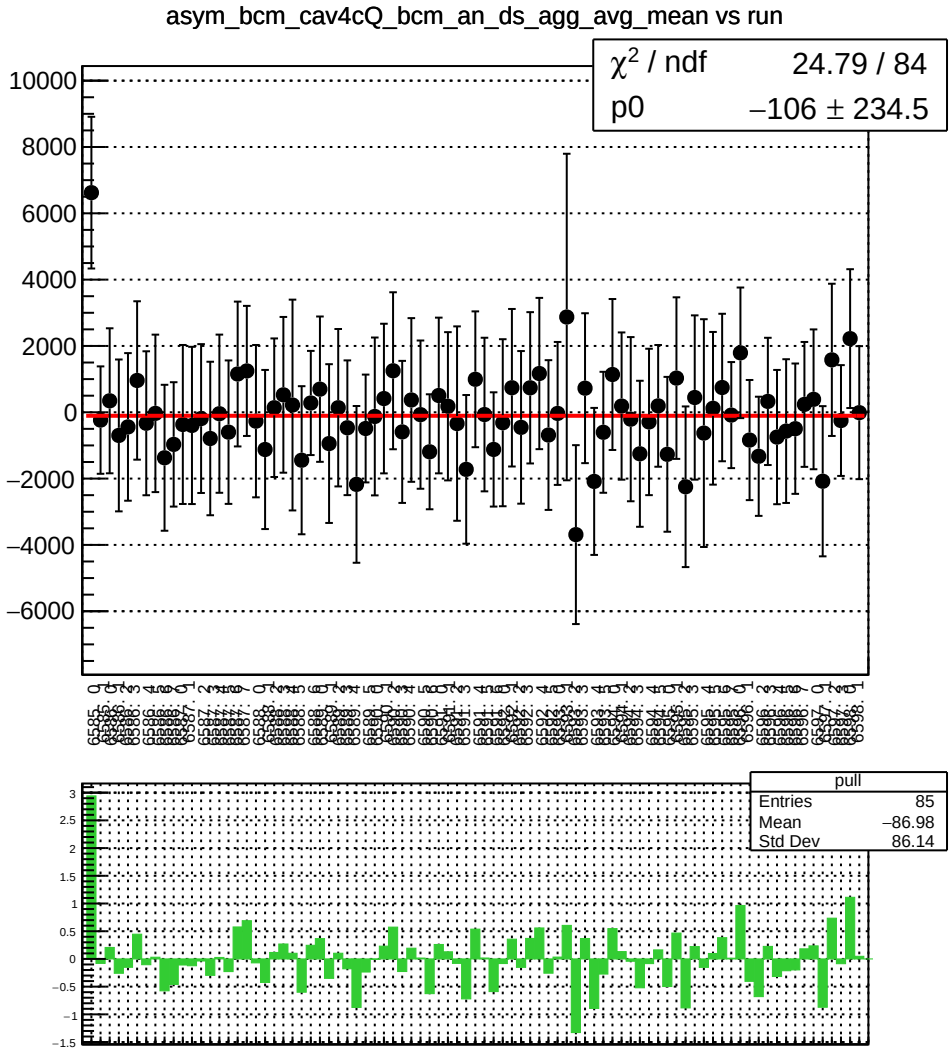

pull1D
Entries 85
Mean 0.005918
Std Dev 0.5334

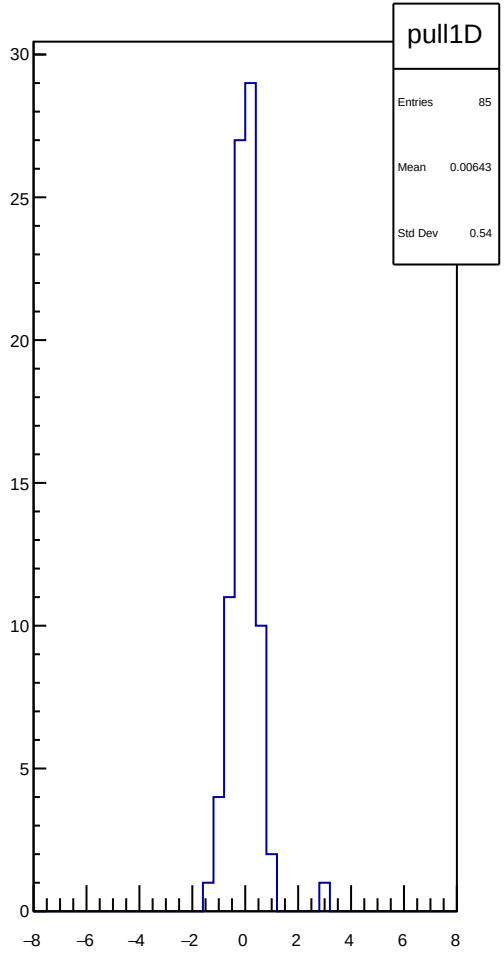

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.764e+04 / 84
p0 214.8 ± 0.1661
500
450
400
350
300
250
200
150

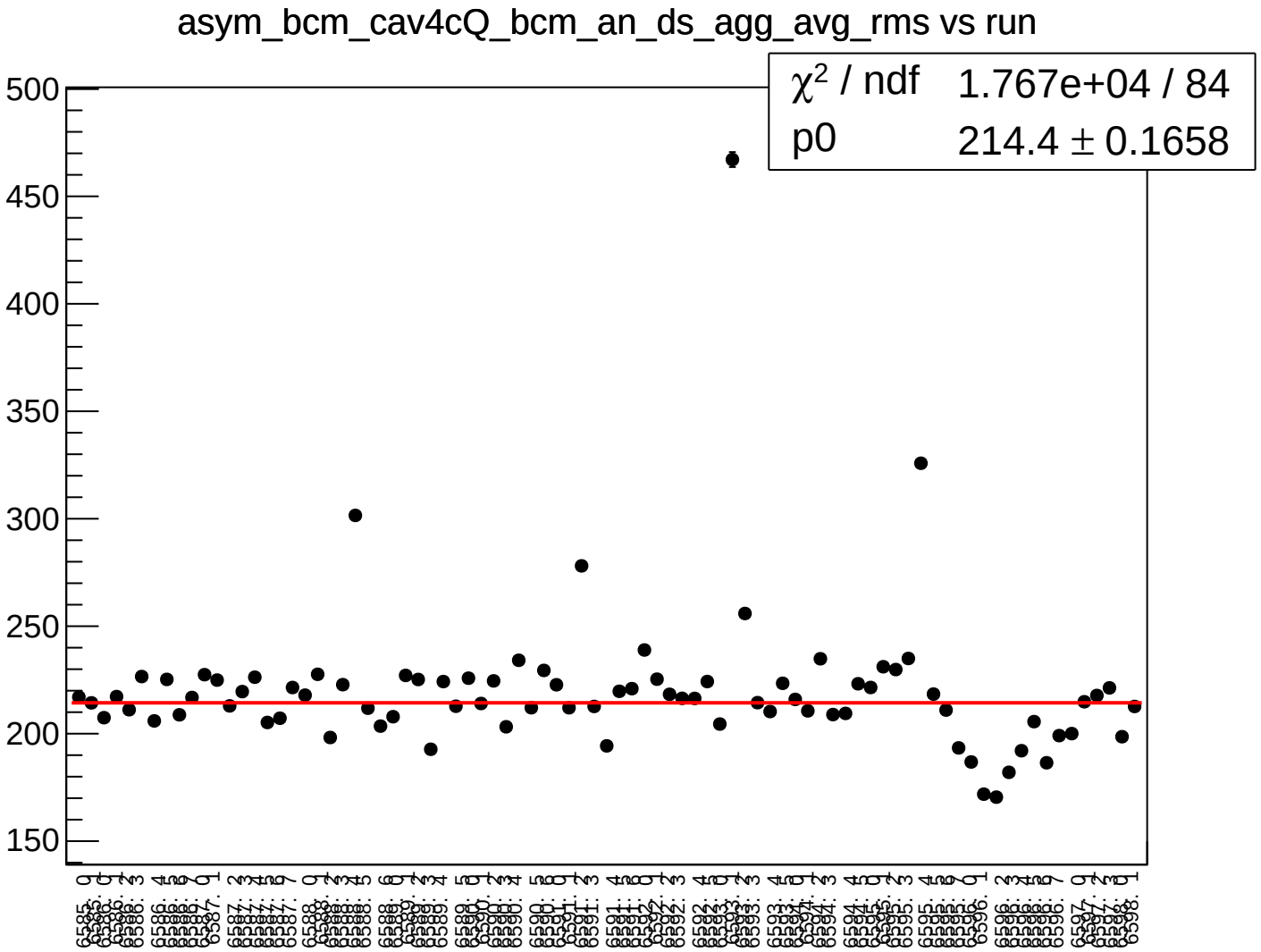

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.32 / 84
p0 −18.25 ± 30.76
1000
500
0
−500
−1000
pull
Entries 85
Mean 946.8
Std Dev 903.8
2
1
0
−1
−2
−3

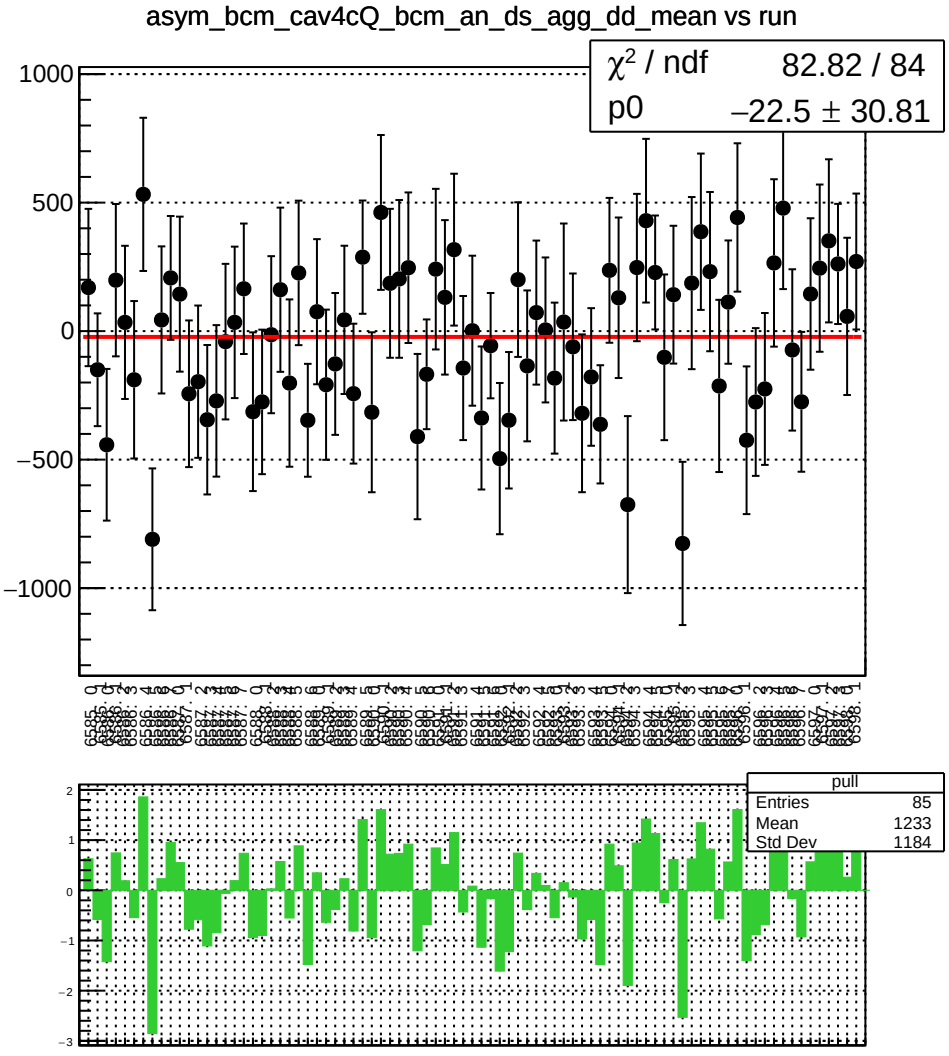

pull1D
Entries 85
Mean 0.004241
Std Dev 0.9841
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

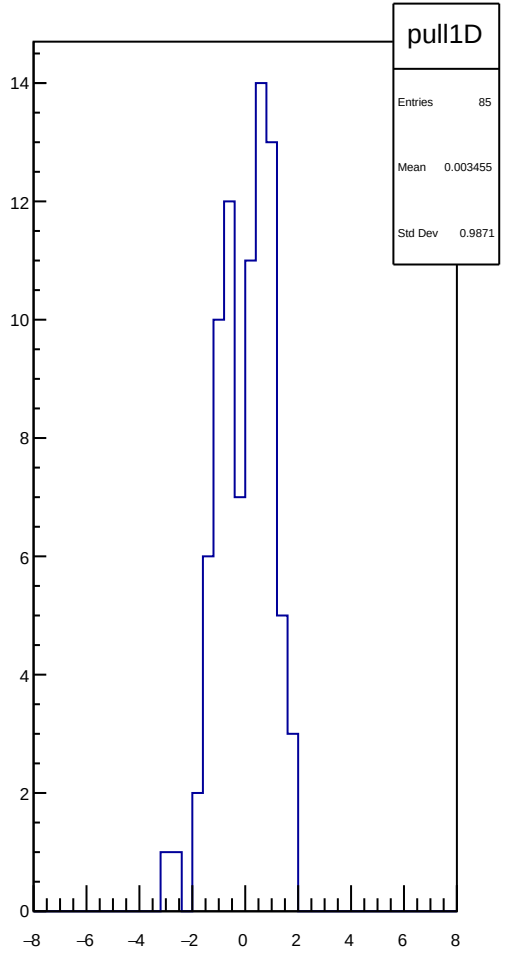

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ2 / ndf 5490 / 84
p0 28.23 ± 0.02175
36
34
32
30
28
26
24

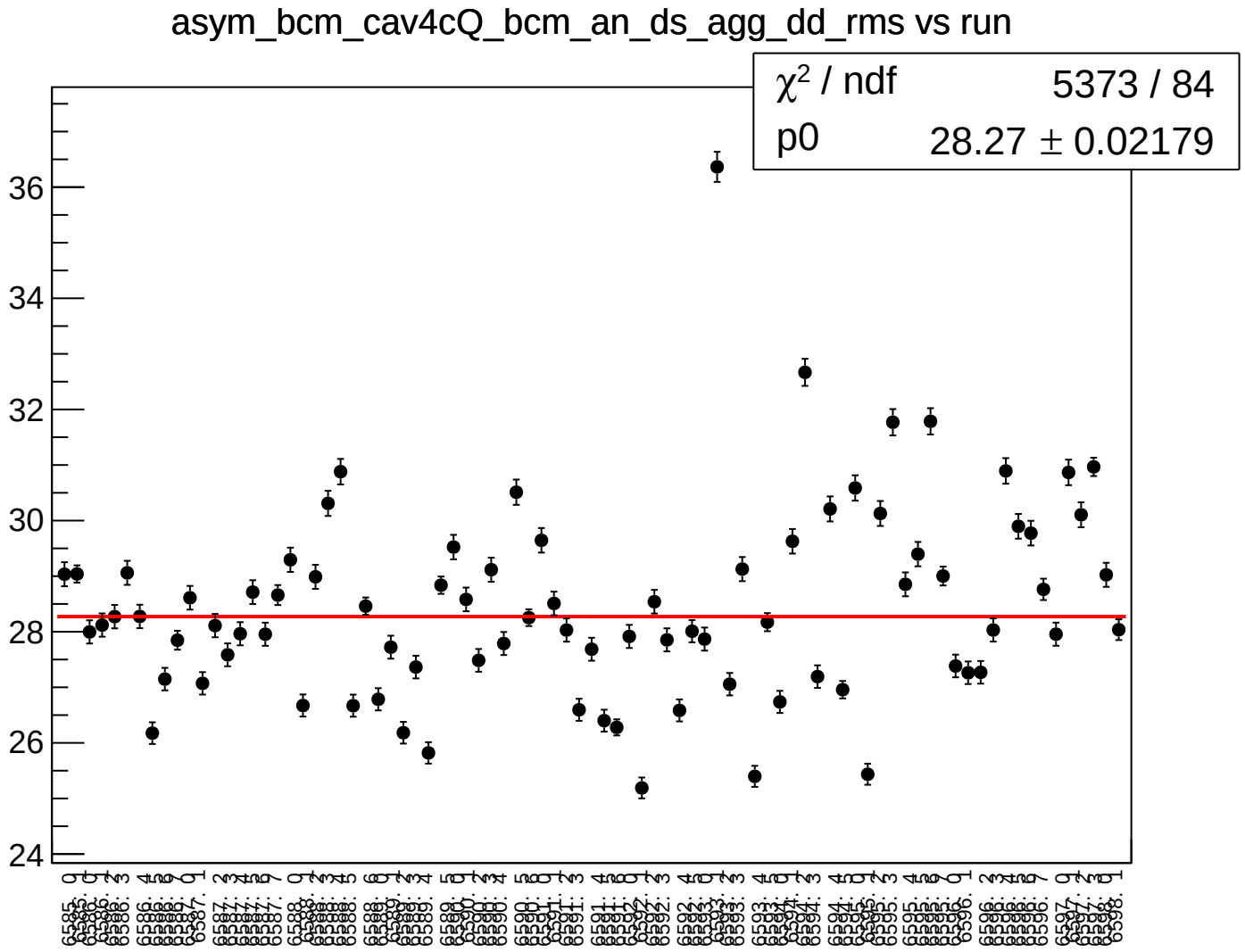

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.79 / 84
p0 −106 ± 234.5
pull
Entries 85
Mean −86.98
Std Dev 86.14

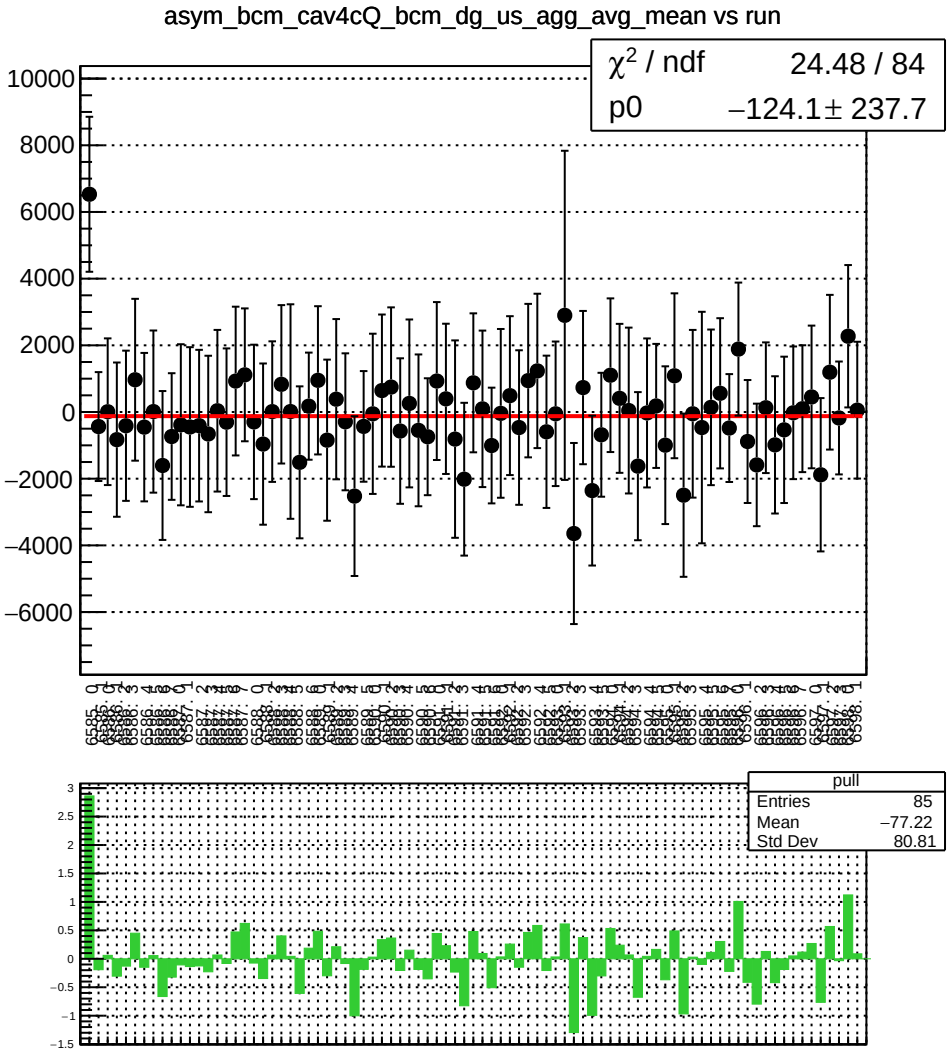

pull1D
Entries 85
Mean 0.00643
Std Dev 0.54

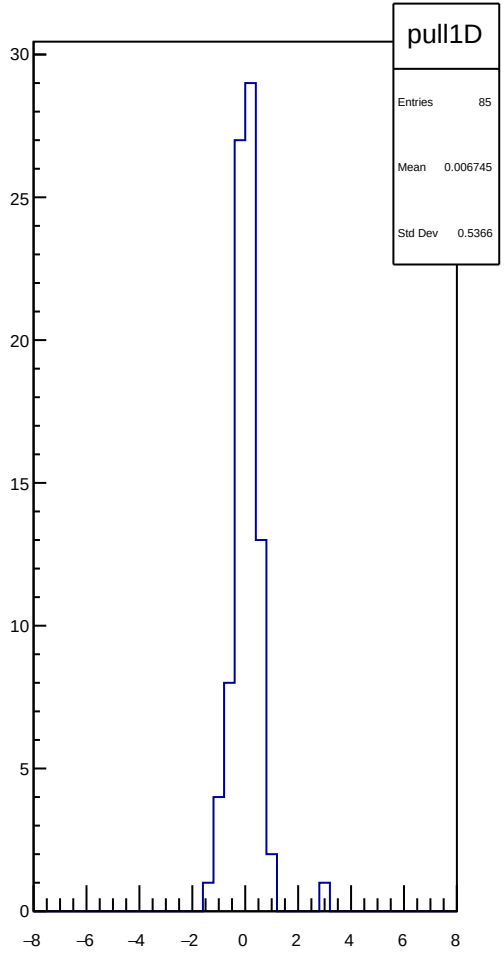

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.767e+04 / 84
p0 214.4 ± 0.1658
500
450
400
350
300
250
200
150

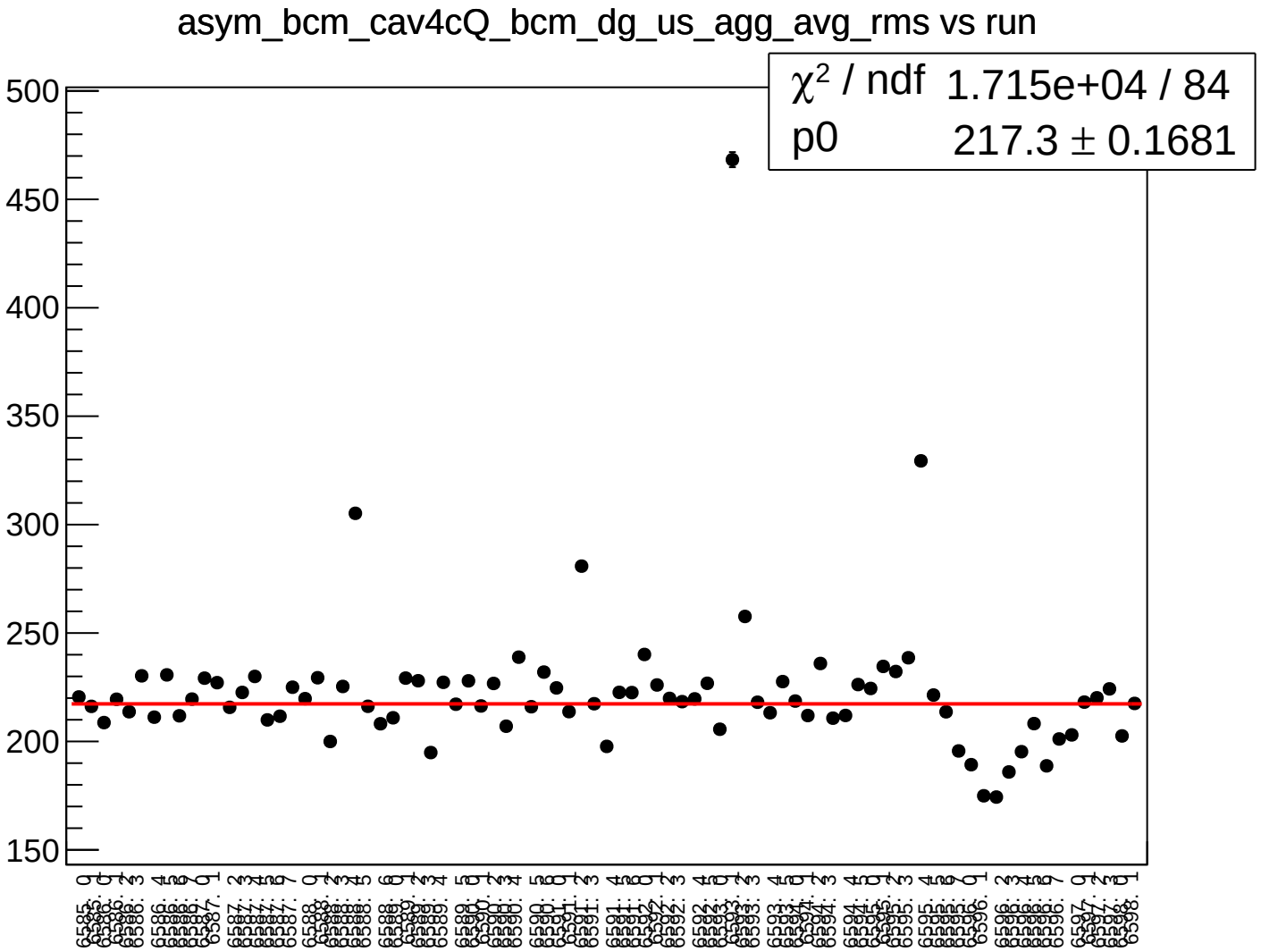

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 82.82 / 84
p0 −22.5 ± 30.81
1000
500
0
−500
−1000
pull
Entries 85
Mean 1233
Std Dev 1184
2
1
0
−1
−2
−3

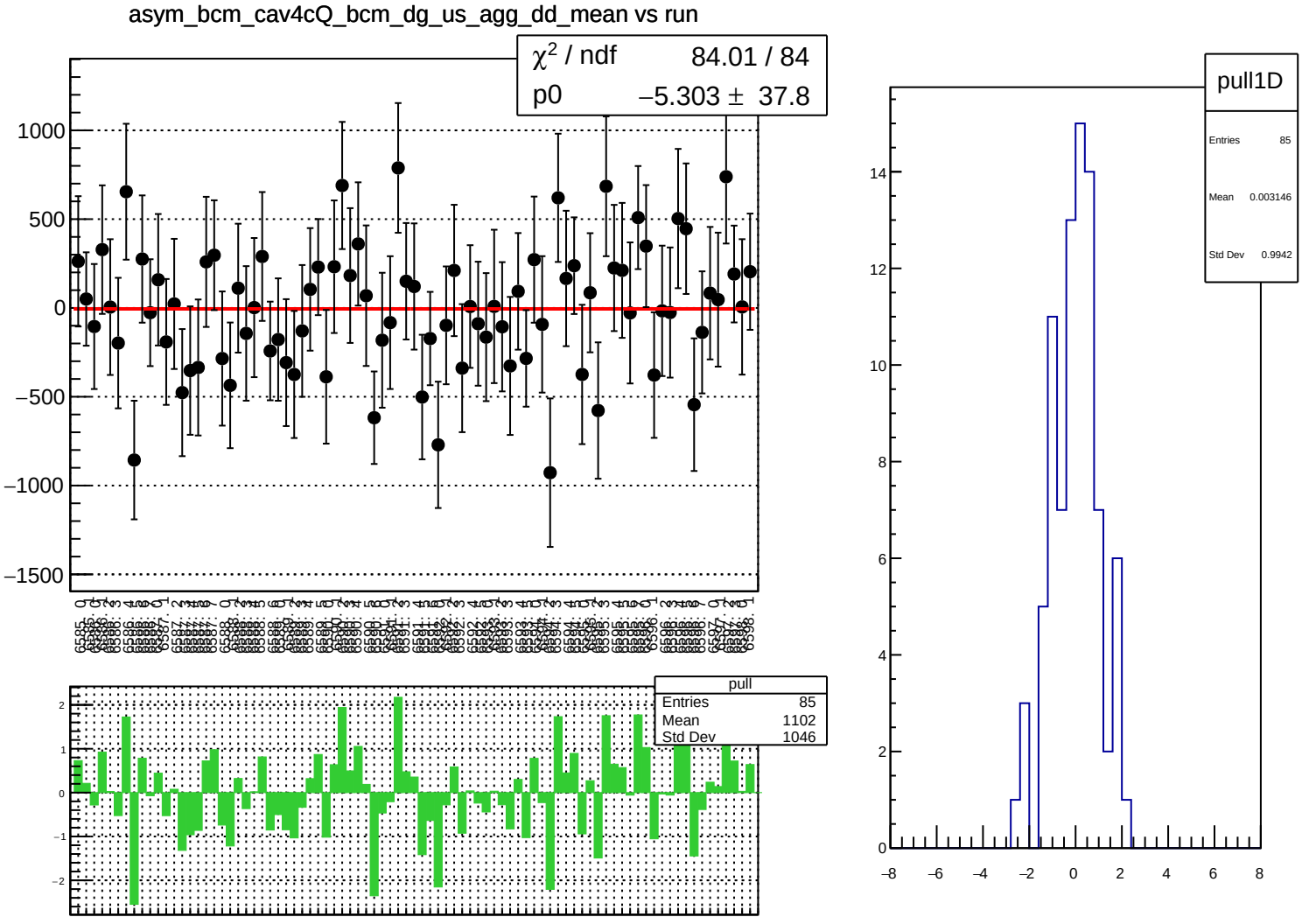

pull1D
Entries 85
Mean 0.003455
Std Dev 0.9871
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

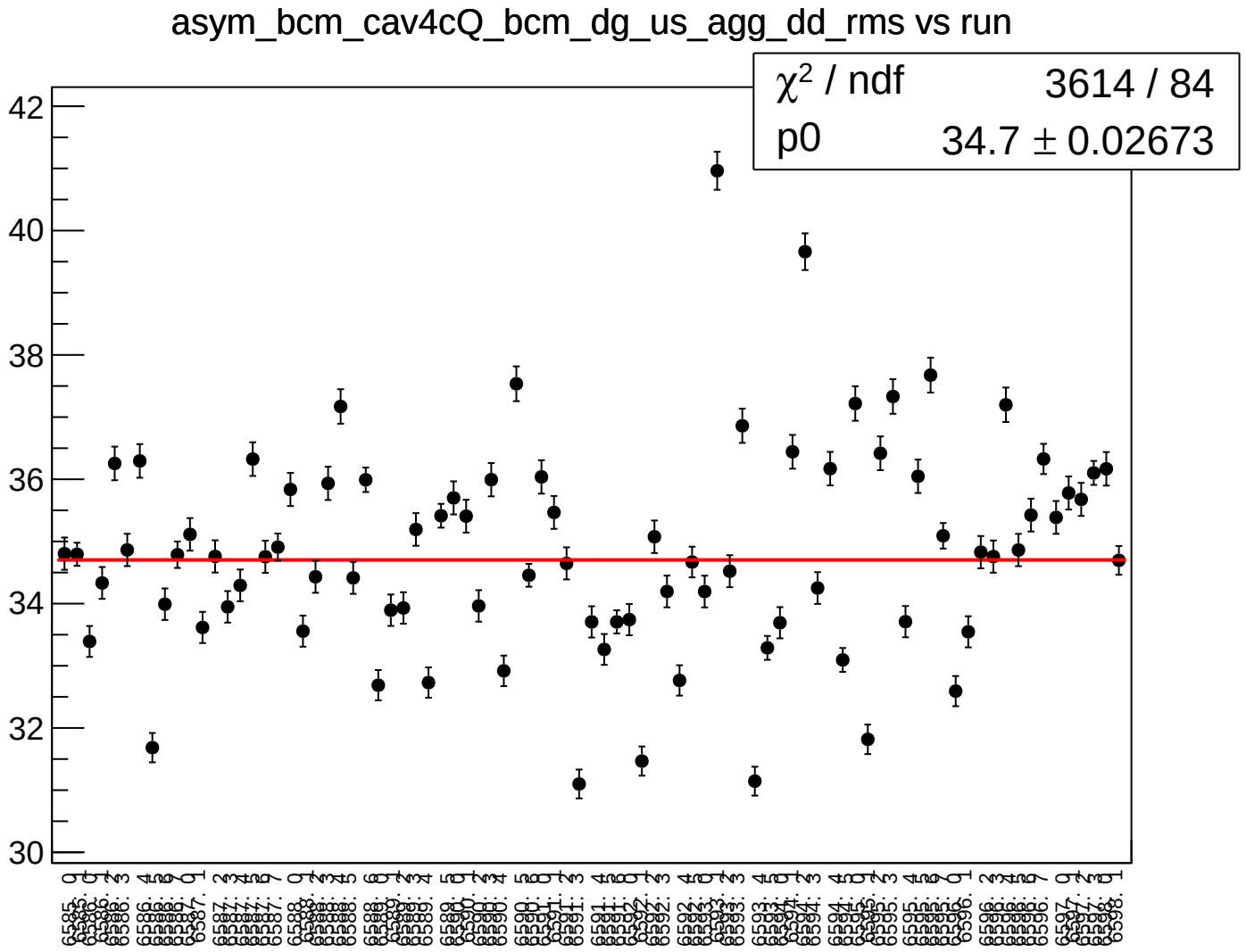

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 5373 / 84
p0 28.27 ± 0.02179
36
34
32
30
28
26
24

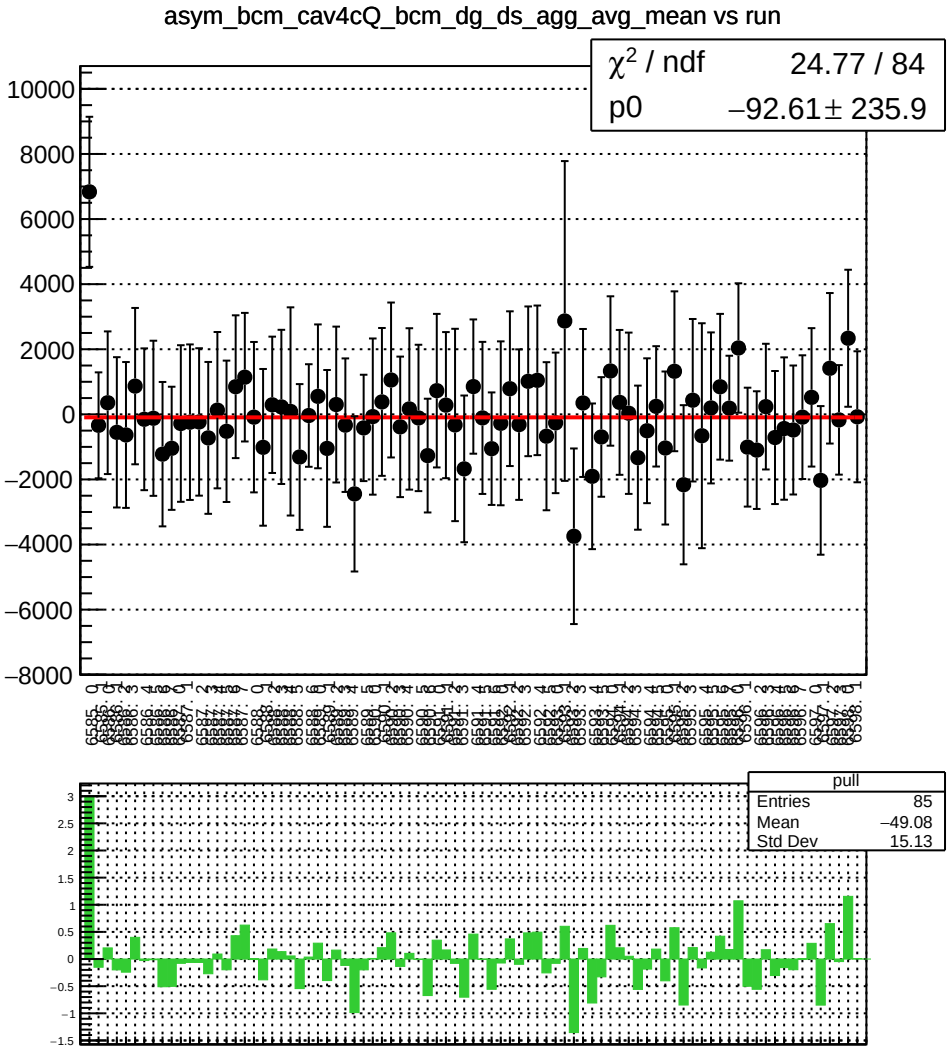

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 24.48 / 84
p0 −124.1 ± 237.7
pull
Entries 85
Mean −77.22
Std Dev 80.81

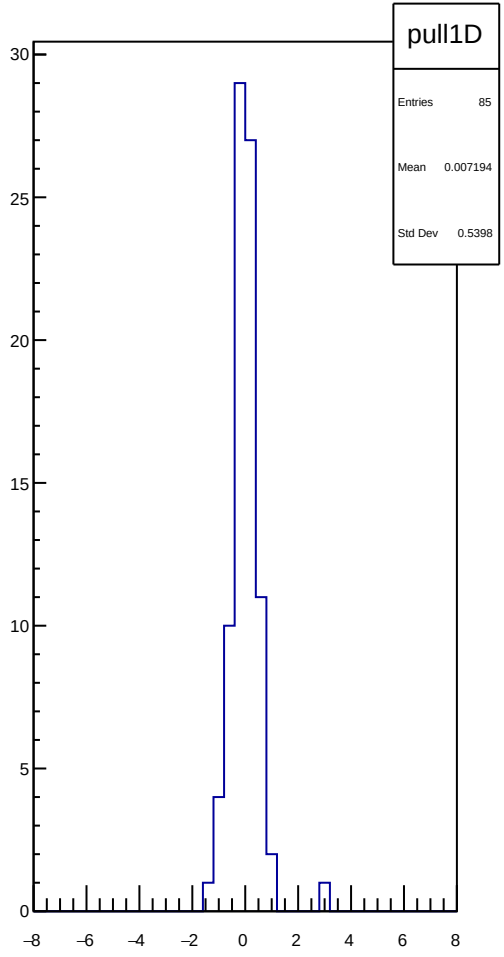

pull1D
Entries 85
Mean 0.006745
Std Dev 0.5366

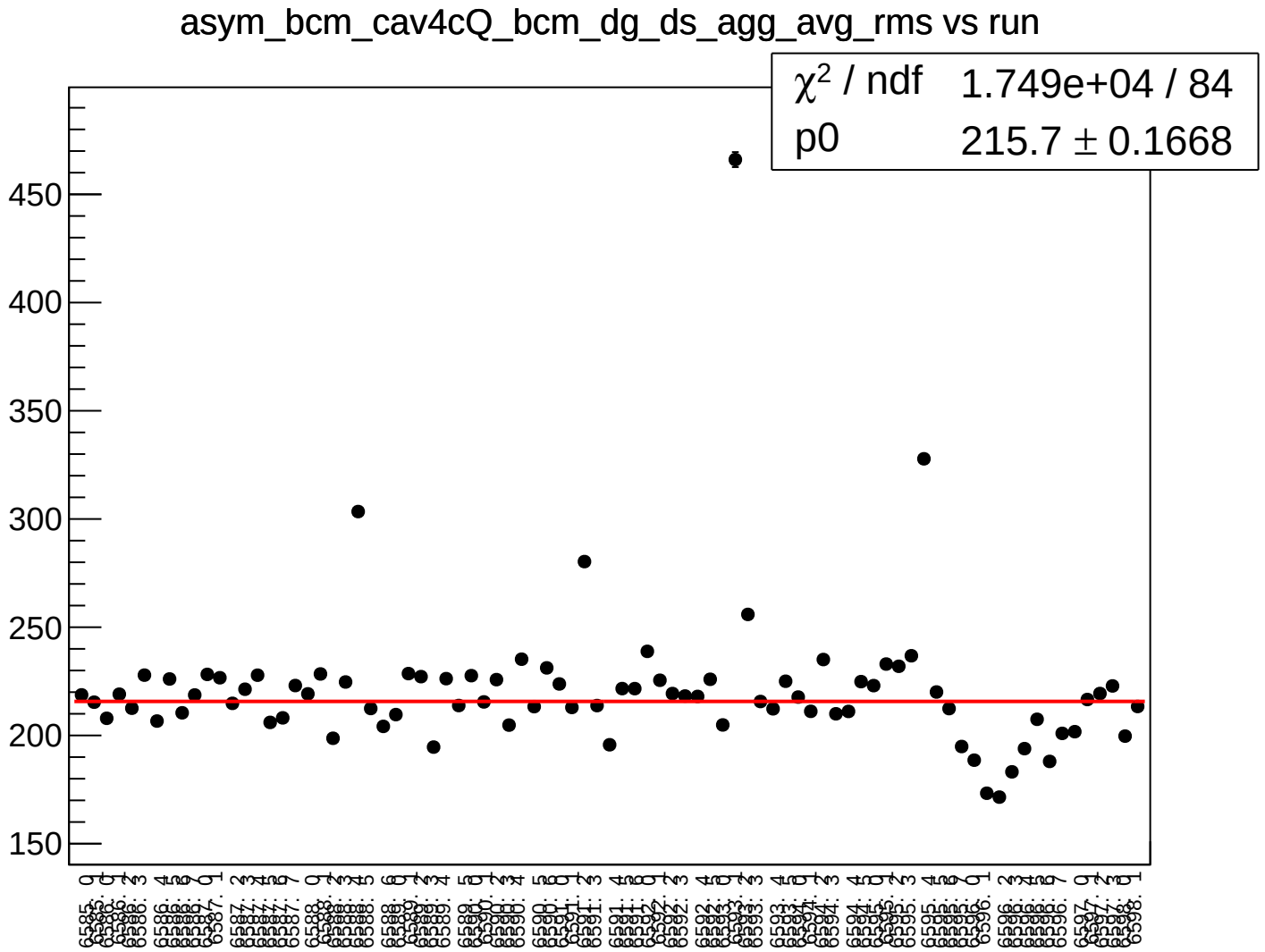

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.715e+04 / 84
p0 217.3 ± 0.1681
500
450
400
350
300
250
200
150

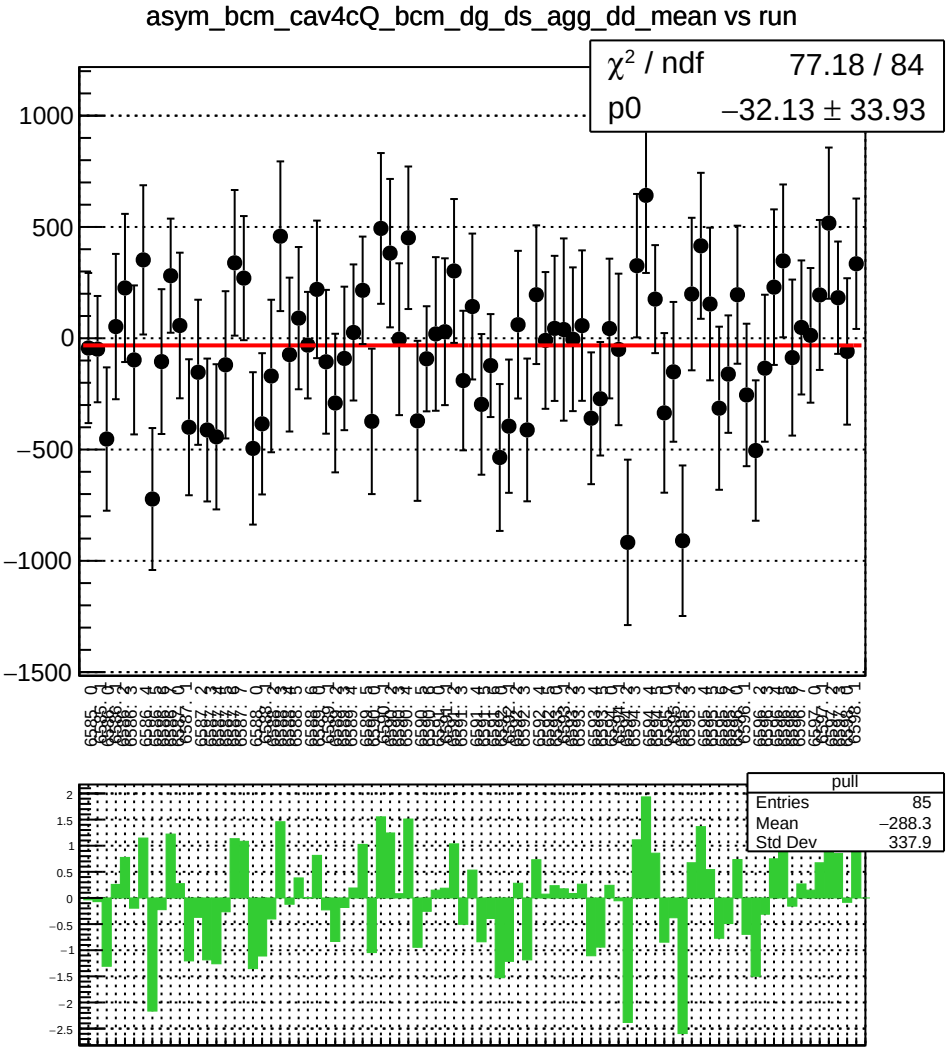

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 84.01 / 84
p0 −5.303 ± 37.8
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 1102
Std Dev 1046
pull1D
Entries 85
Mean 0.003146
Std Dev 0.9942

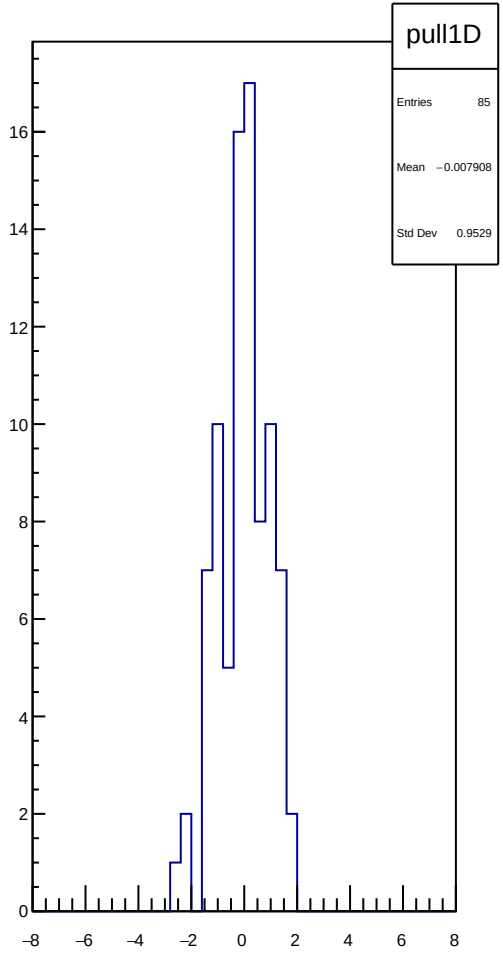

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ^2 / ndf 3614 / 84
p0 34.7 ± 0.02673
42
40
38
36
34
32
30

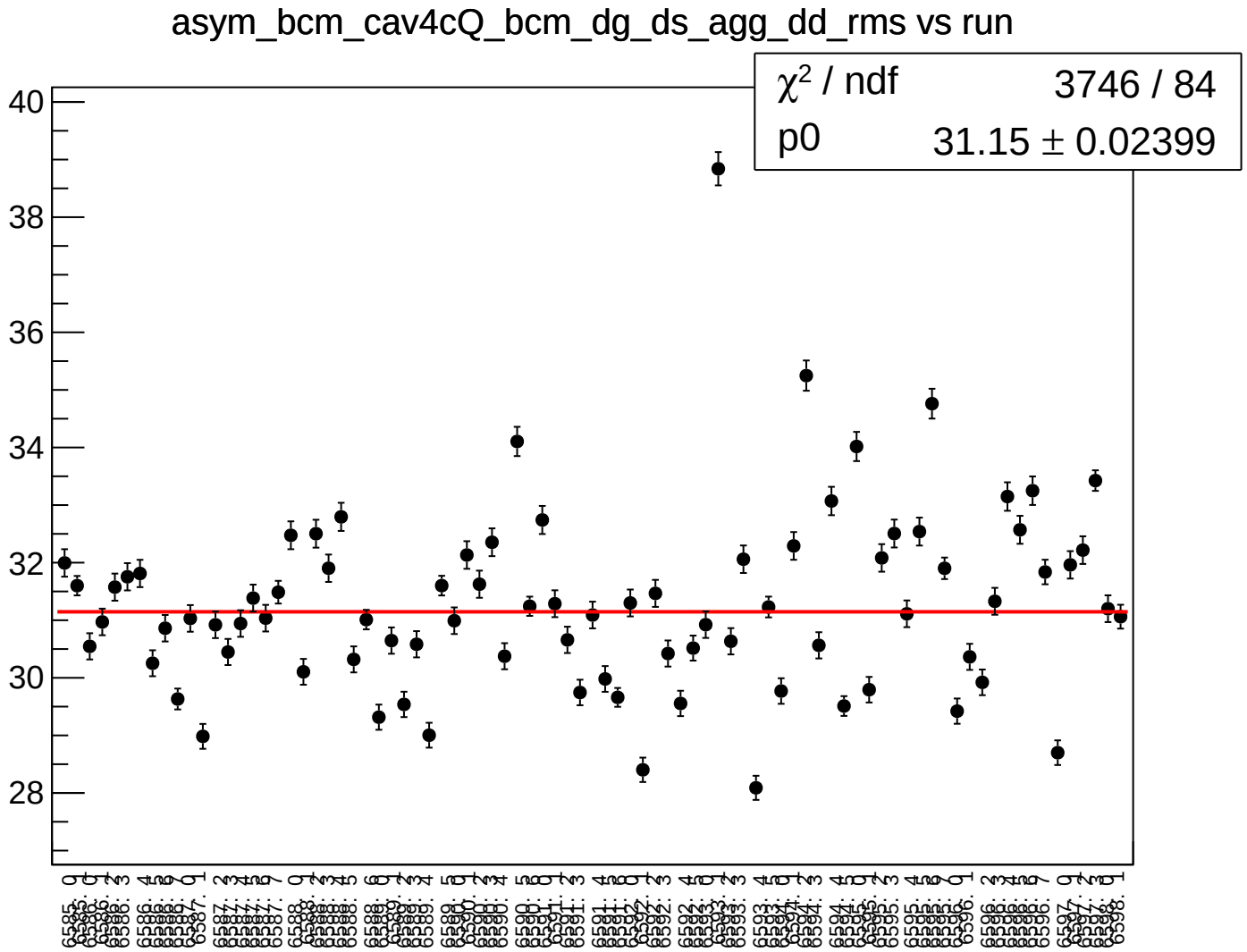

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.77 / 84
p0 −92.61 ± 235.9
pull
Entries 85
Mean −49.08
Std Dev 15.13

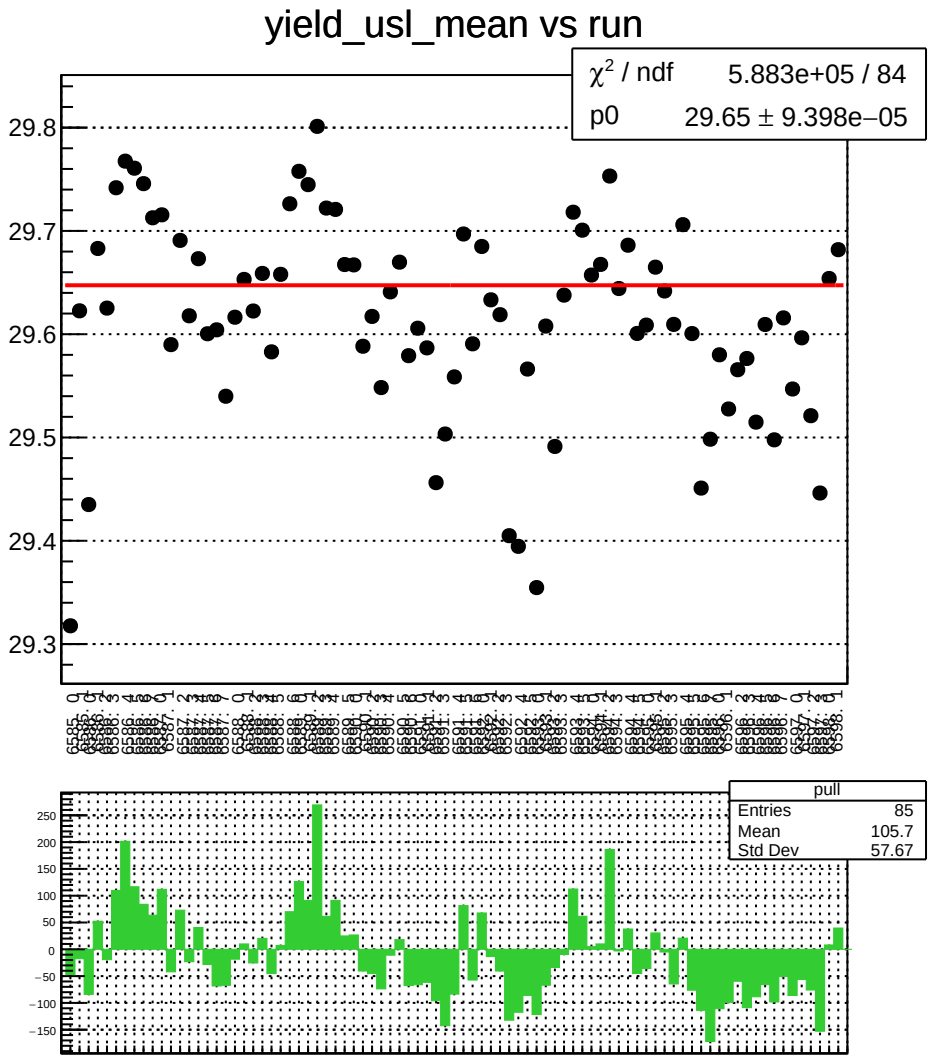

pull1D
Entries 85
Mean 0.007194
Std Dev 0.5398

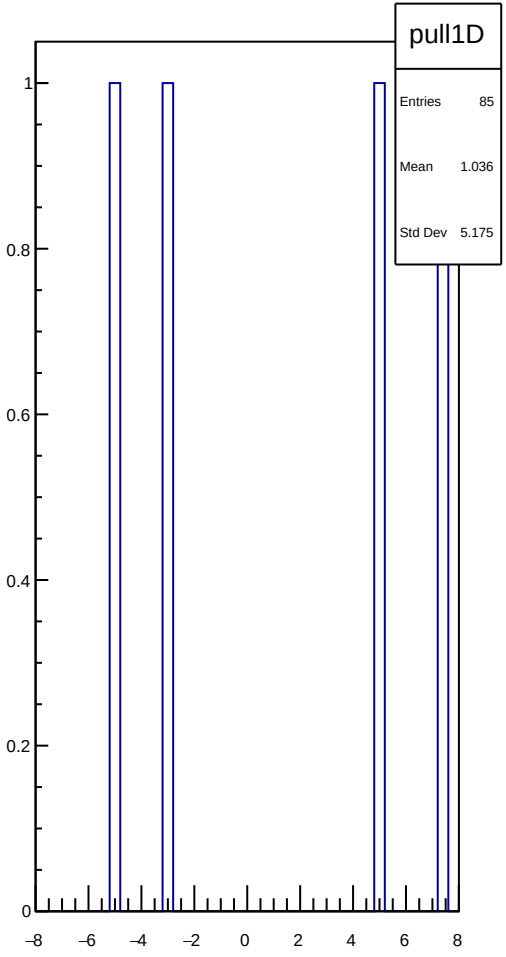

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ2 / ndf 1.749e+04 / 84
p0 215.7 ± 0.1668
450
400
350
300
250
200
150

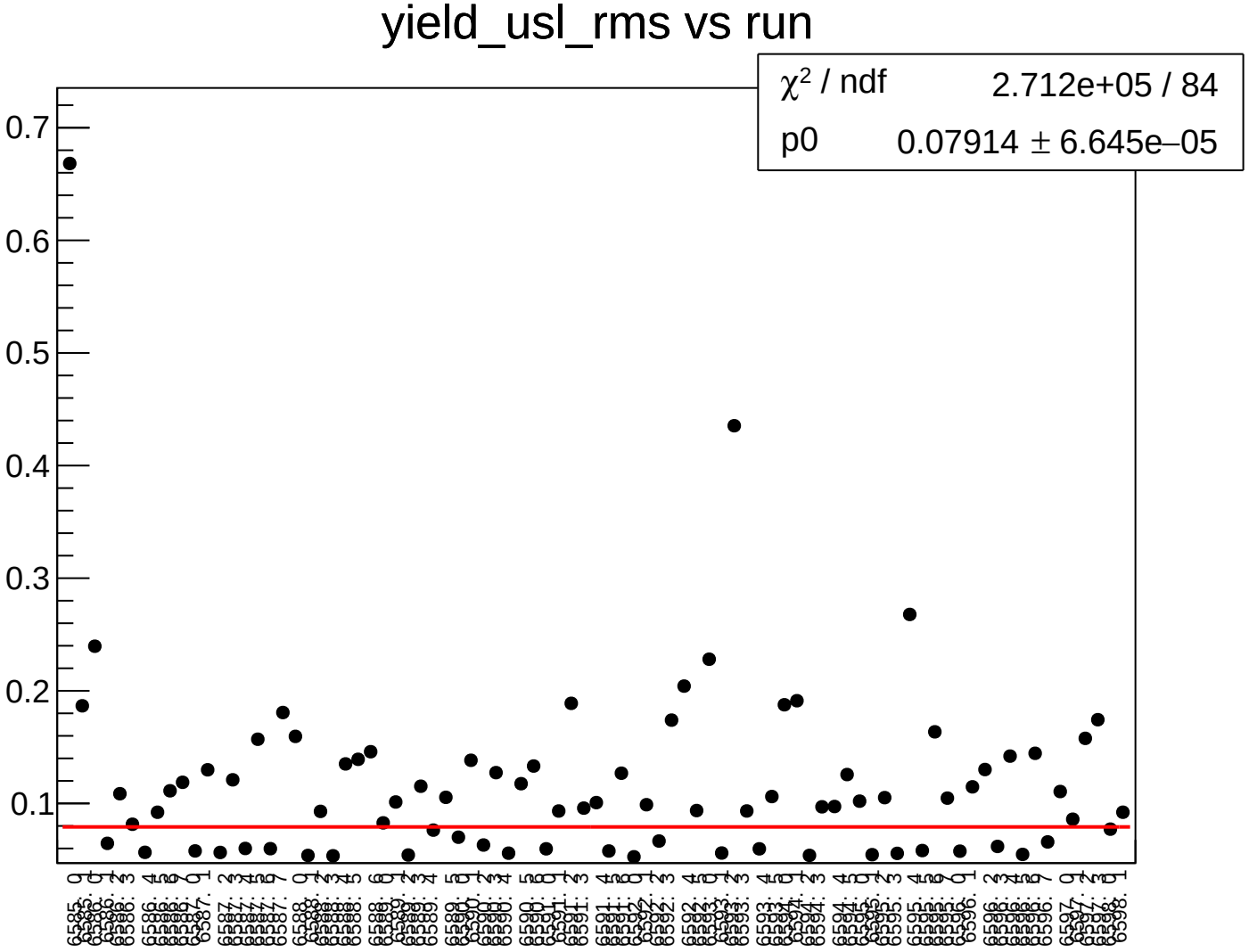

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.18 / 84
p0 −32.13 ± 33.93
pull
Entries 85
Mean −288.3
Std Dev 337.9

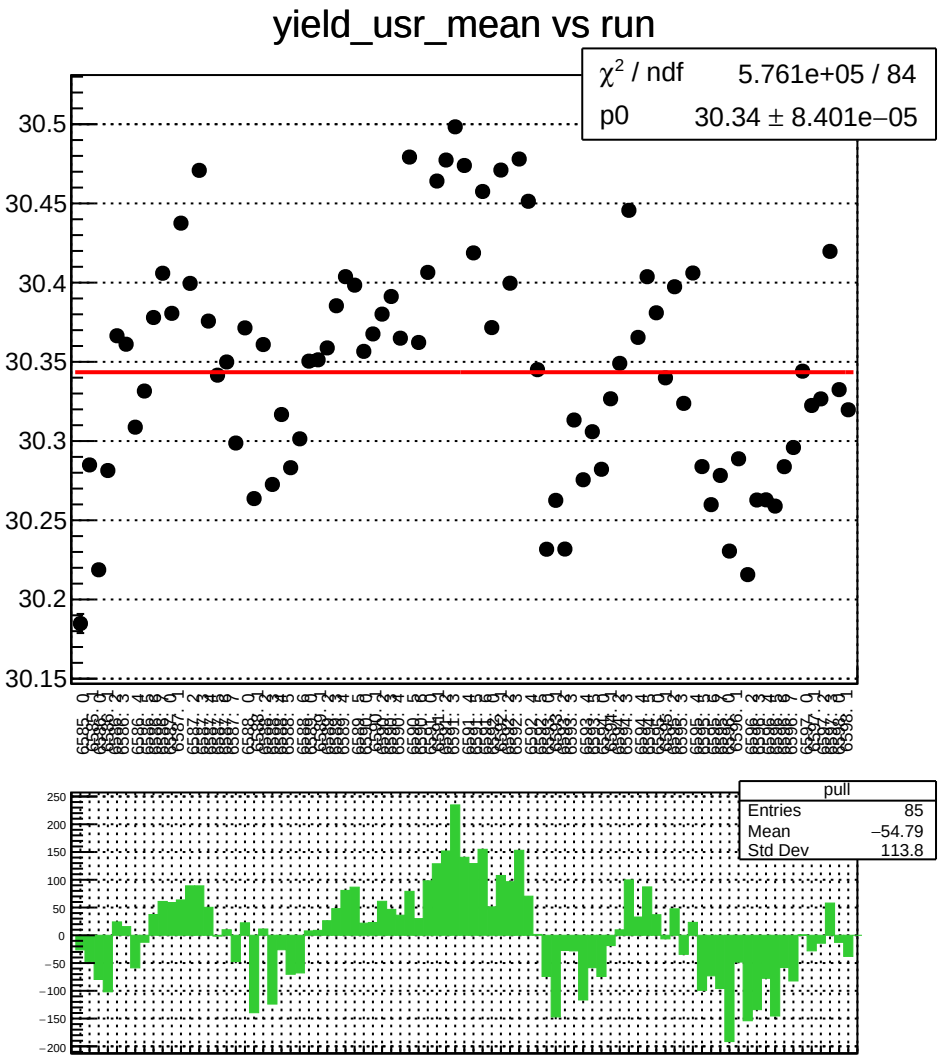

pull1D
Entries 85
Mean −0.007908
Std Dev 0.9529

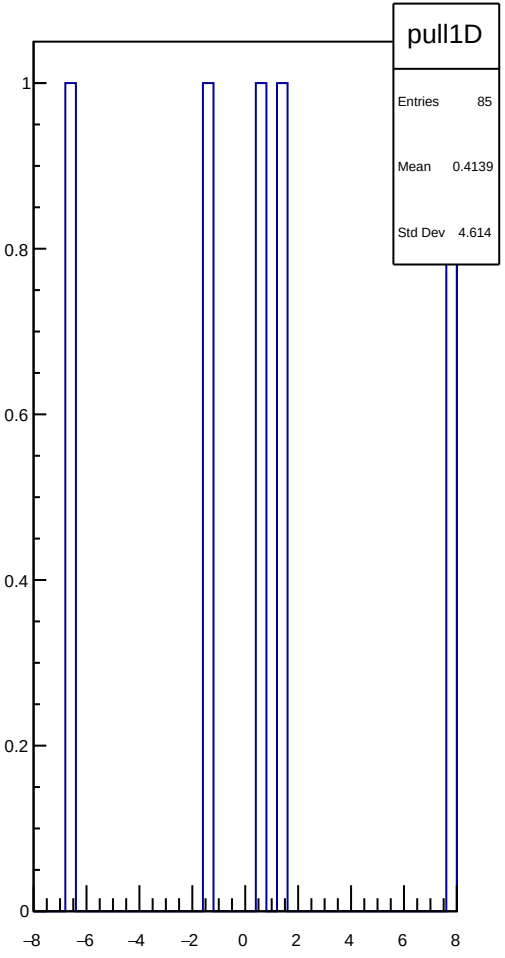

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ2 / ndf 3746 / 84
p0 31.15 ± 0.02399
40
38
36
34
32
30
28

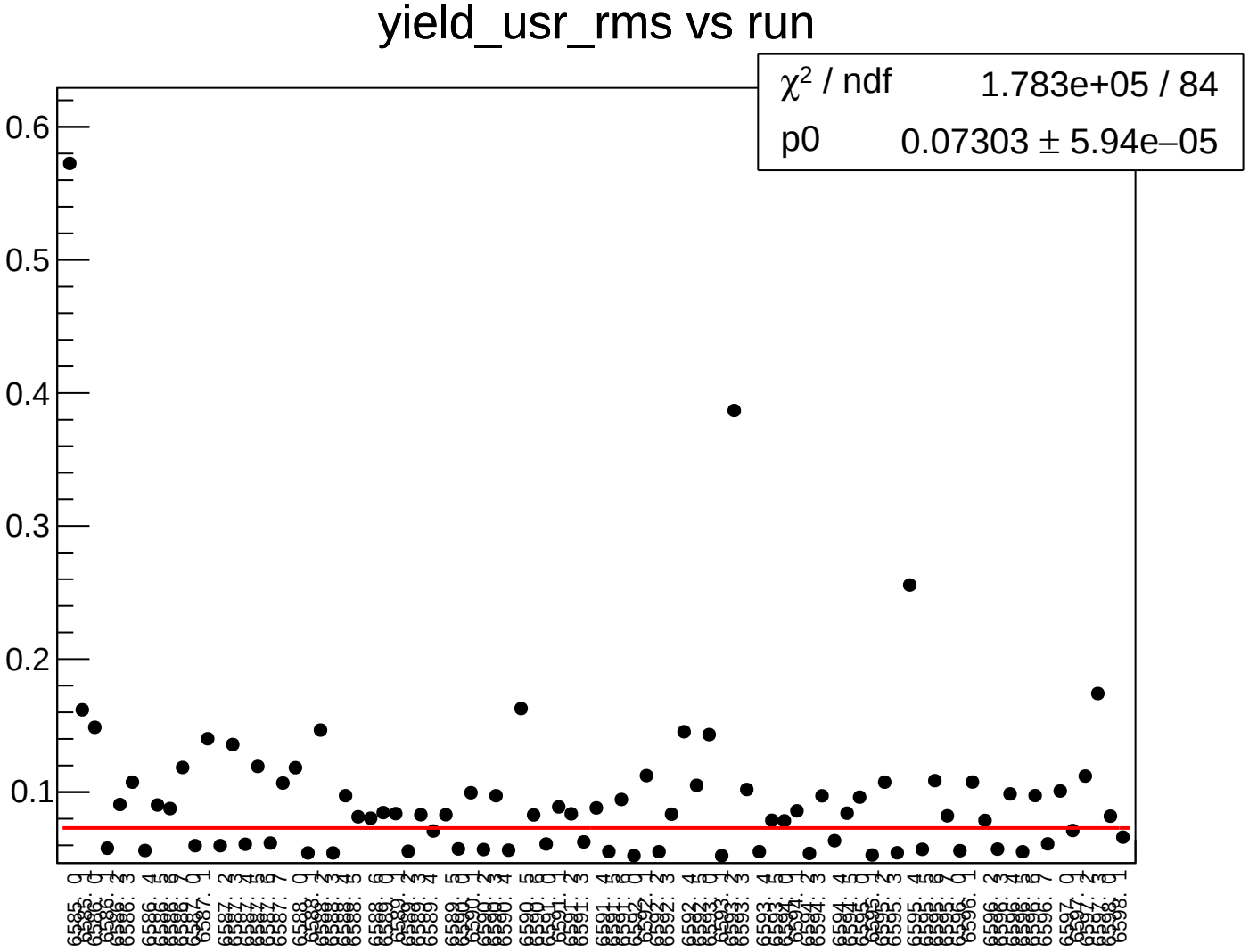

yield_usl_mean vs run
χ² / ndf 5.883e+05 / 84
p0 29.65 ± 9.398e−05
29.8
29.7
29.6
29.5
29.4
29.3
pull
Entries 85
Mean 105.7
Std Dev 57.67
250
200
150
100
50
0
−50
−100
−150

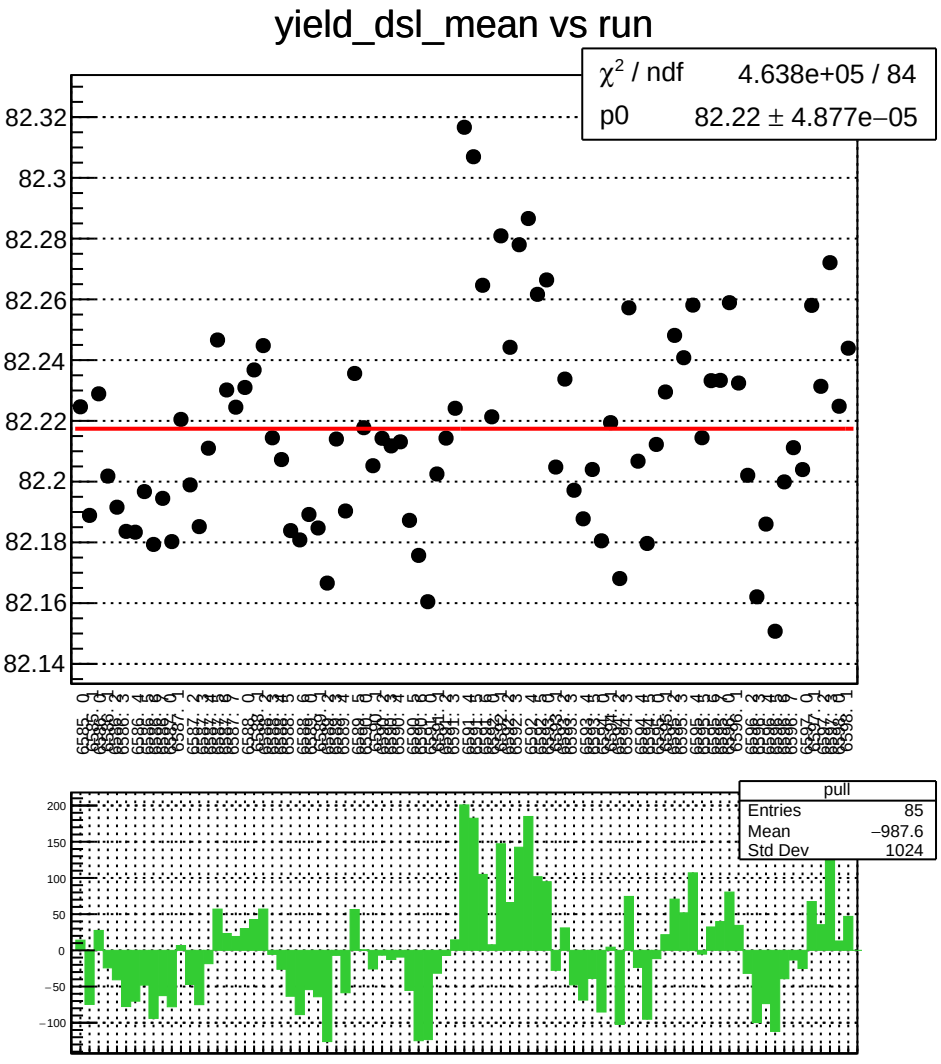

pull1D
Entries 85
Mean 1.036
Std Dev 5.175
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

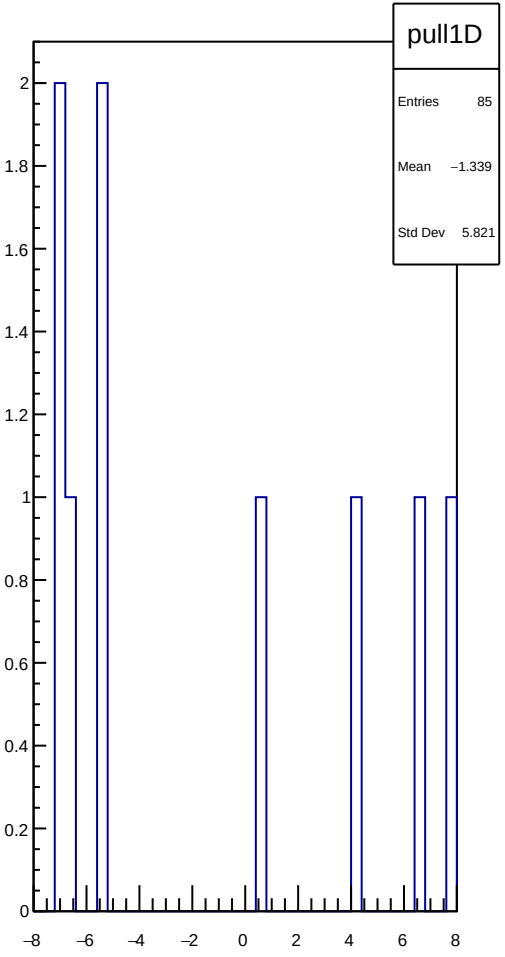

yield_usl_rms vs run
χ^2 / ndf 2.712e+05 / 84
p0 0.07914 ± 6.645e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1


yield_usr_mean vs run
χ^2 / ndf 5.761e+05 / 84
p0 30.34 ± 8.401e−05
30.5
30.45
30.4
30.35
30.3
30.25
30.2
30.15
pull
Entries 85
Mean −54.79
Std Dev 113.8
250
200
150
100
50
0
−50
−100
−150
−200

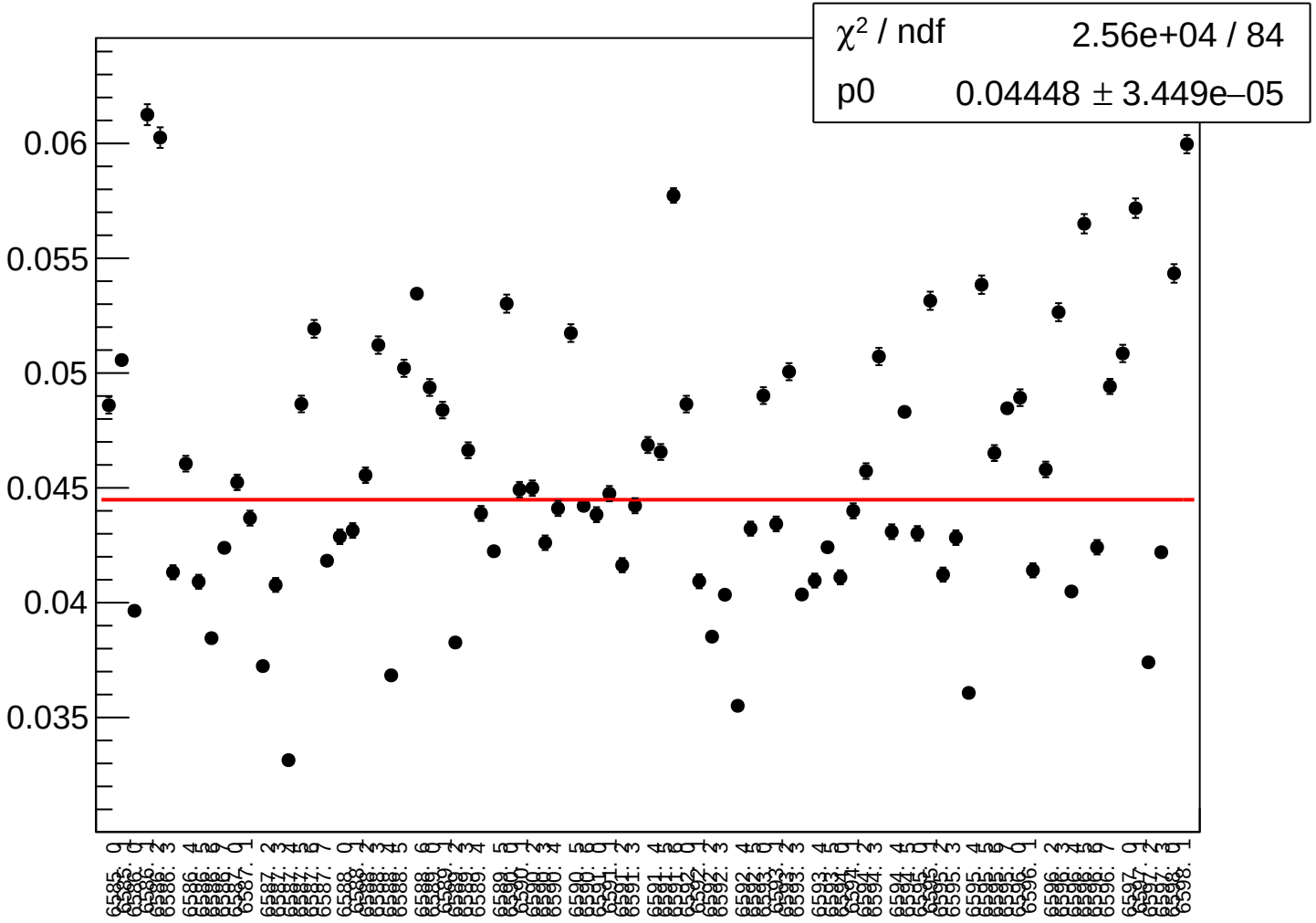

pull1D
Entries 85
Mean 0.4139
Std Dev 4.614
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

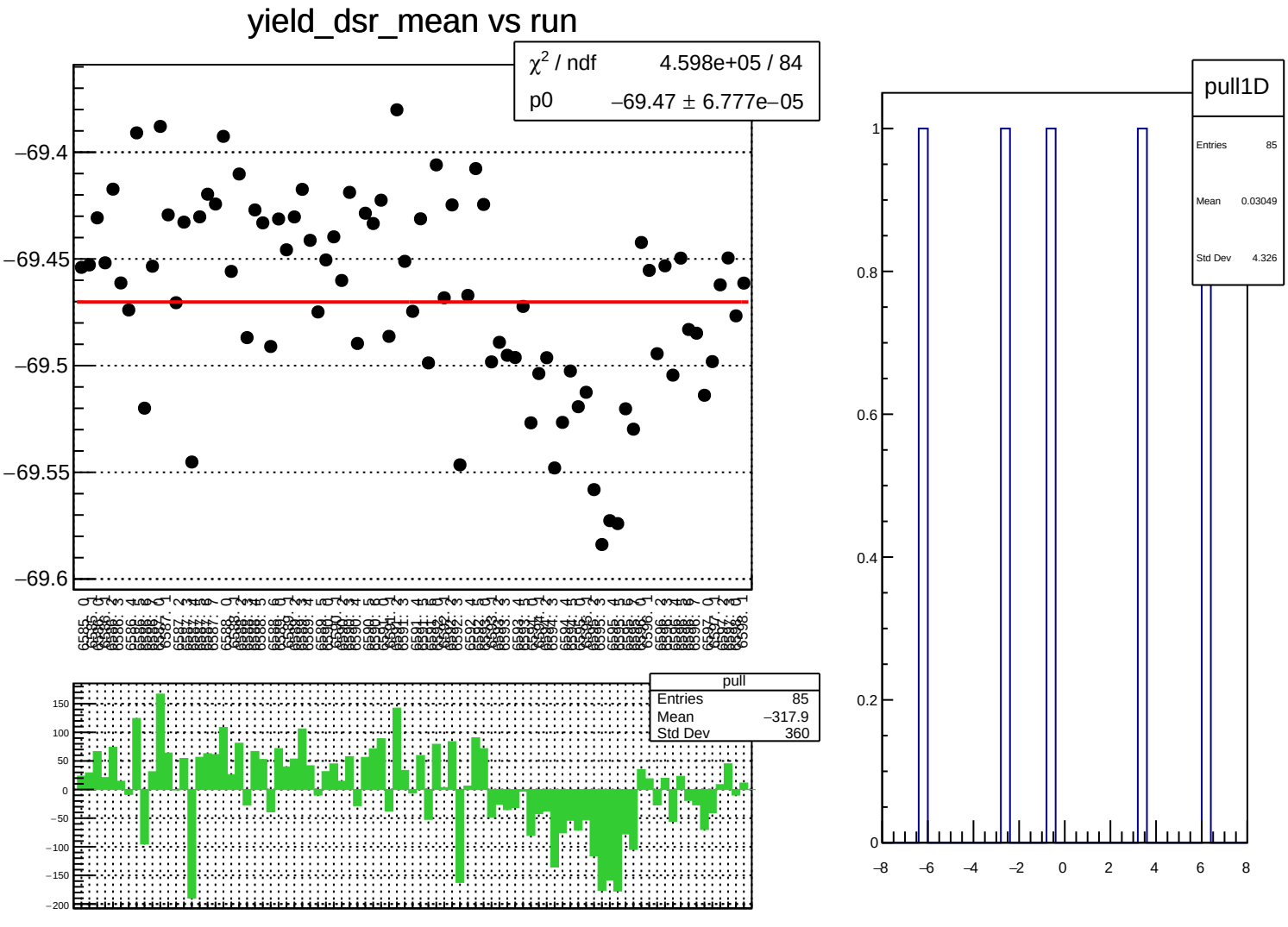

yield_usr_rms vs run
χ^2 / ndf 1.783e+05 / 84
p0 0.07303 ± 5.94e–05
0.6
0.5
0.4
0.3
0.2
0.1

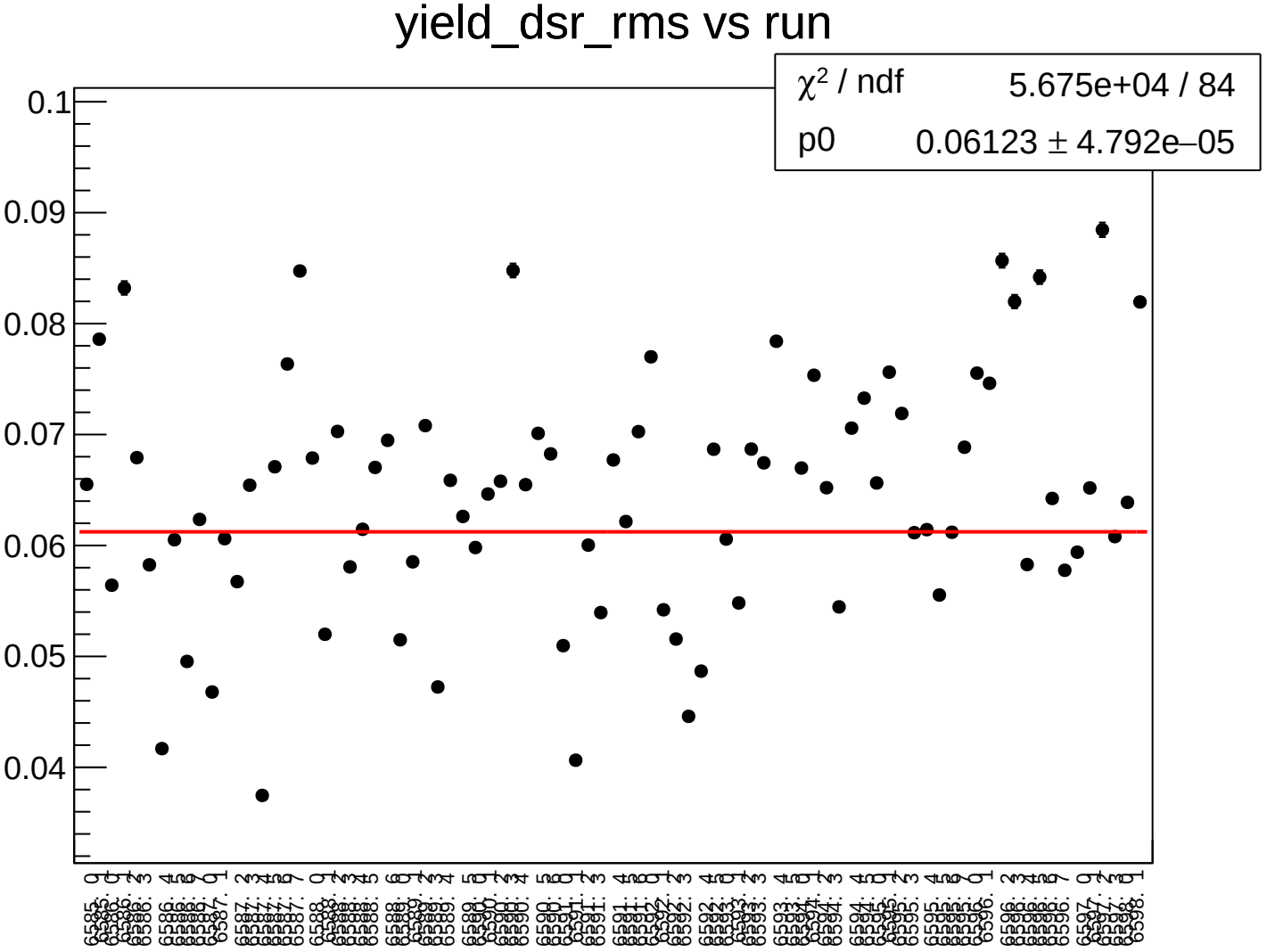

yield_dsl_mean vs run
χ² / ndf 4.638e+05 / 84
p0 82.22 ± 4.877e−05
82.32
82.3
82.28
82.26
82.24
82.22
82.2
82.18
82.16
82.14
pull
Entries 85
Mean −987.6
Std Dev 1024
200
150
100
50
0
−50
−100

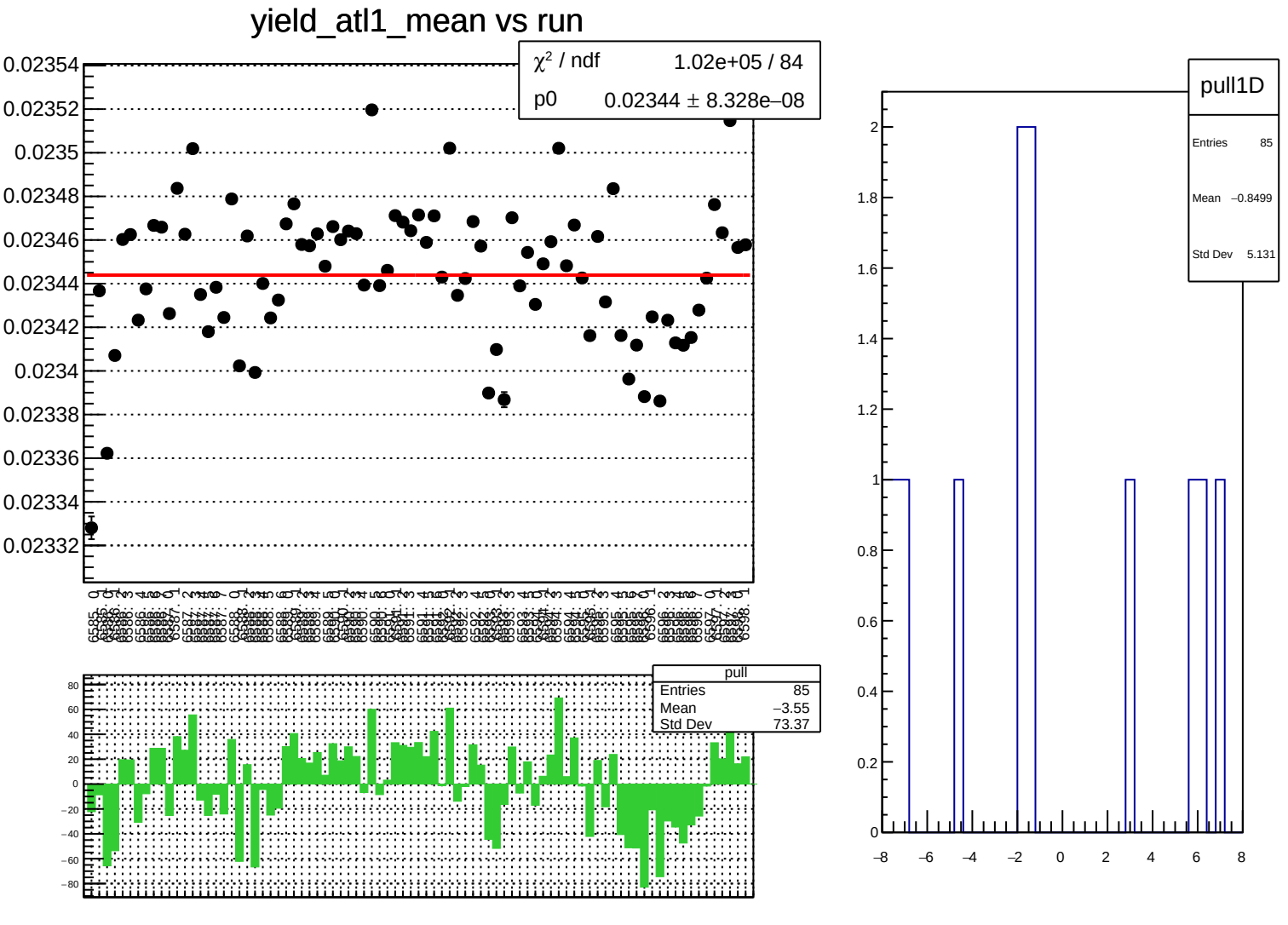

pull1D
Entries 85
Mean −1.339
Std Dev 5.821
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

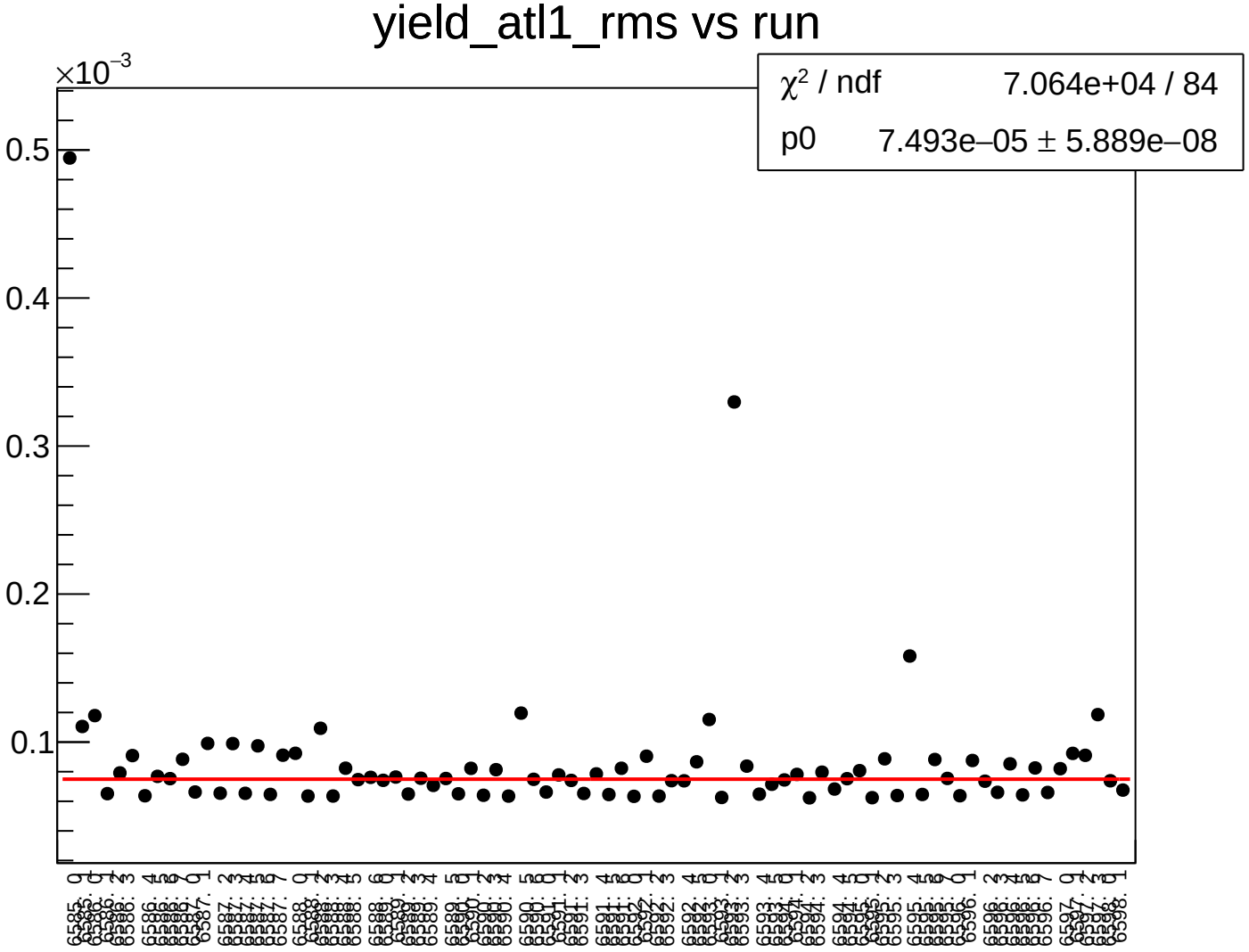
yield_dsl_rms vs run

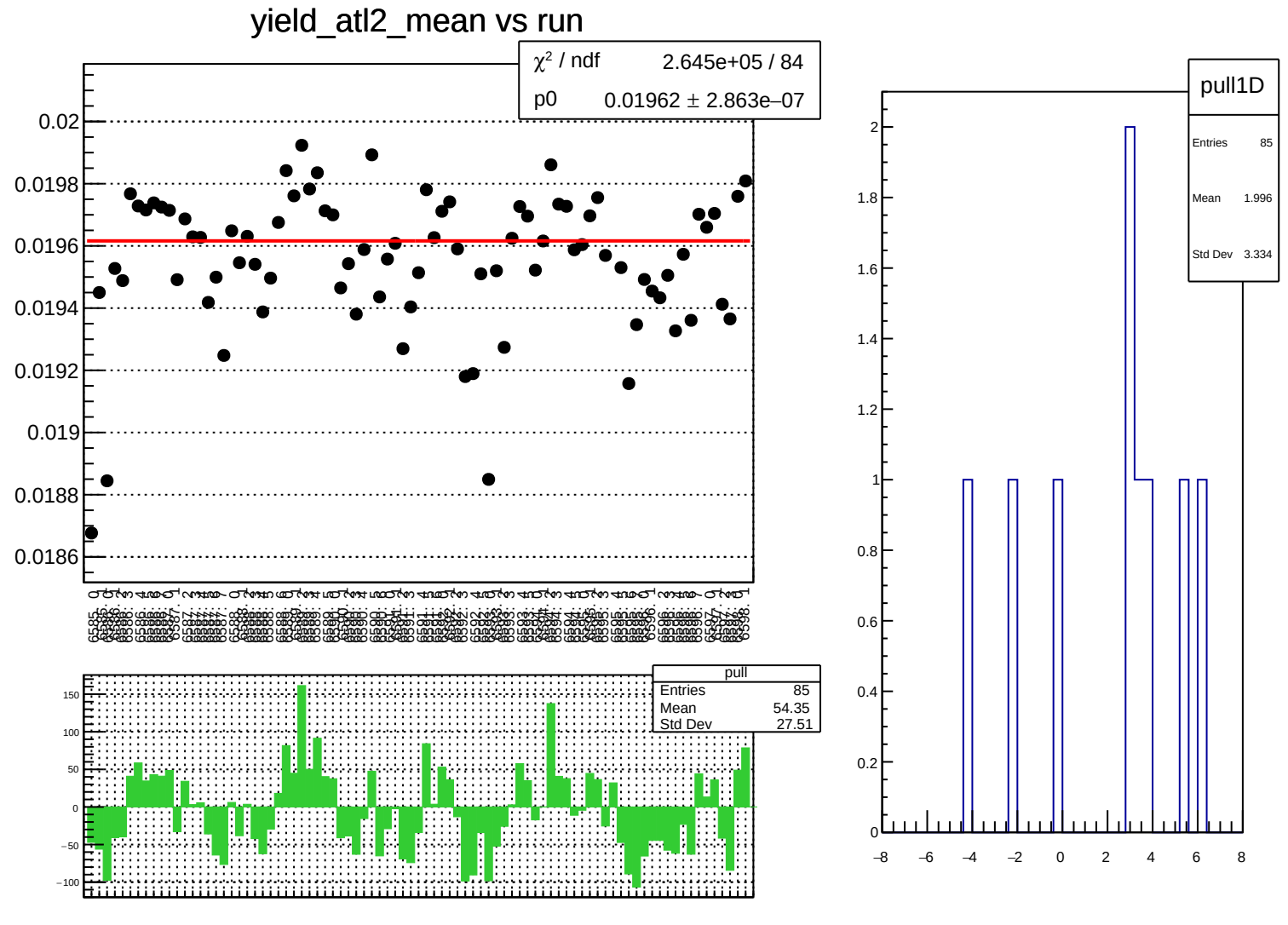


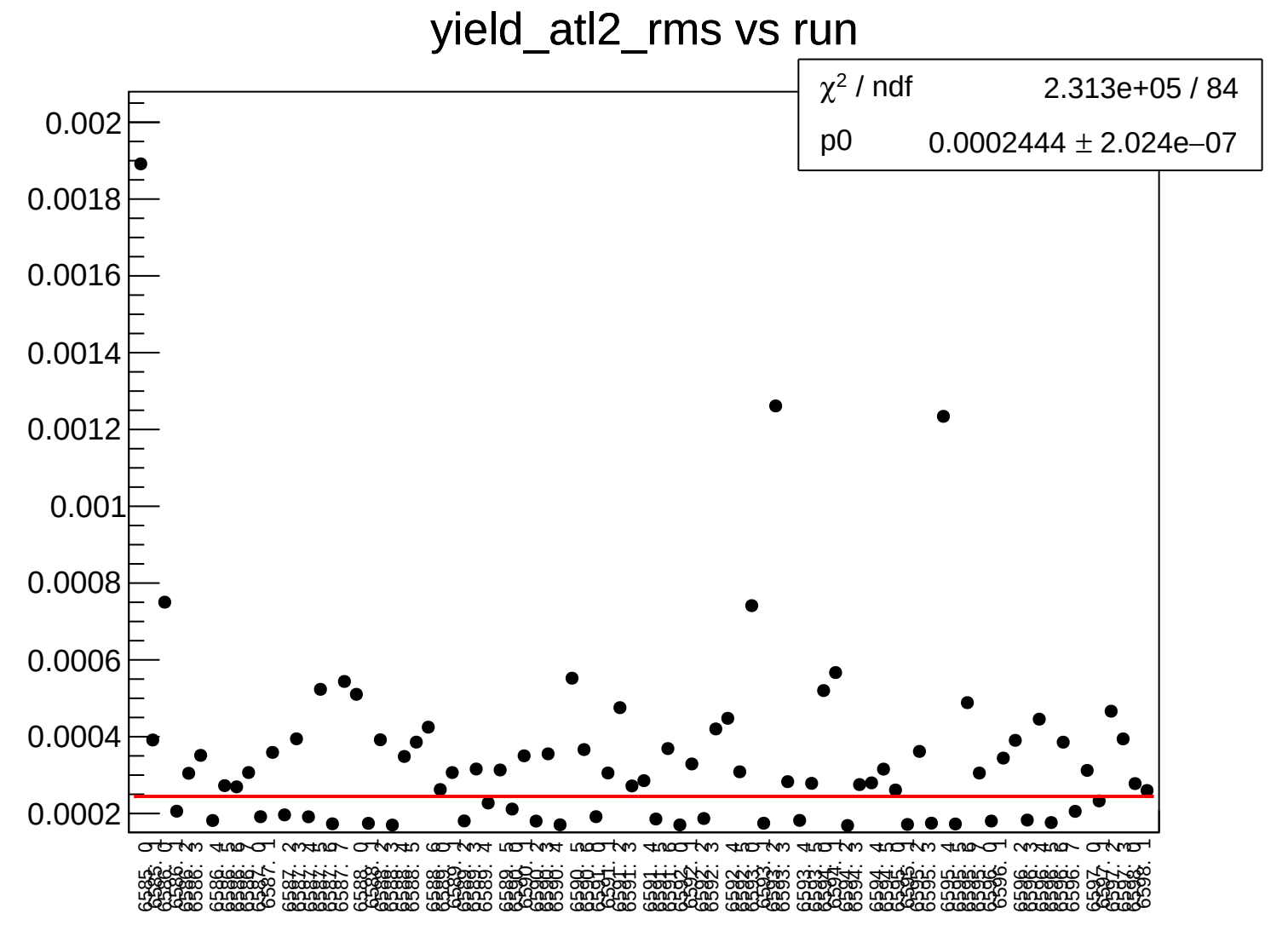

yield_dsr_mean vs run
χ² / ndf 4.598e+05 / 84
p0 −69.47 ± 6.777e−05
−69.4
−69.45
−69.5
−69.55
−69.6
pull
Entries 85
Mean −317.9
Std Dev 360
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 85
Mean 0.03049
Std Dev 4.326
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

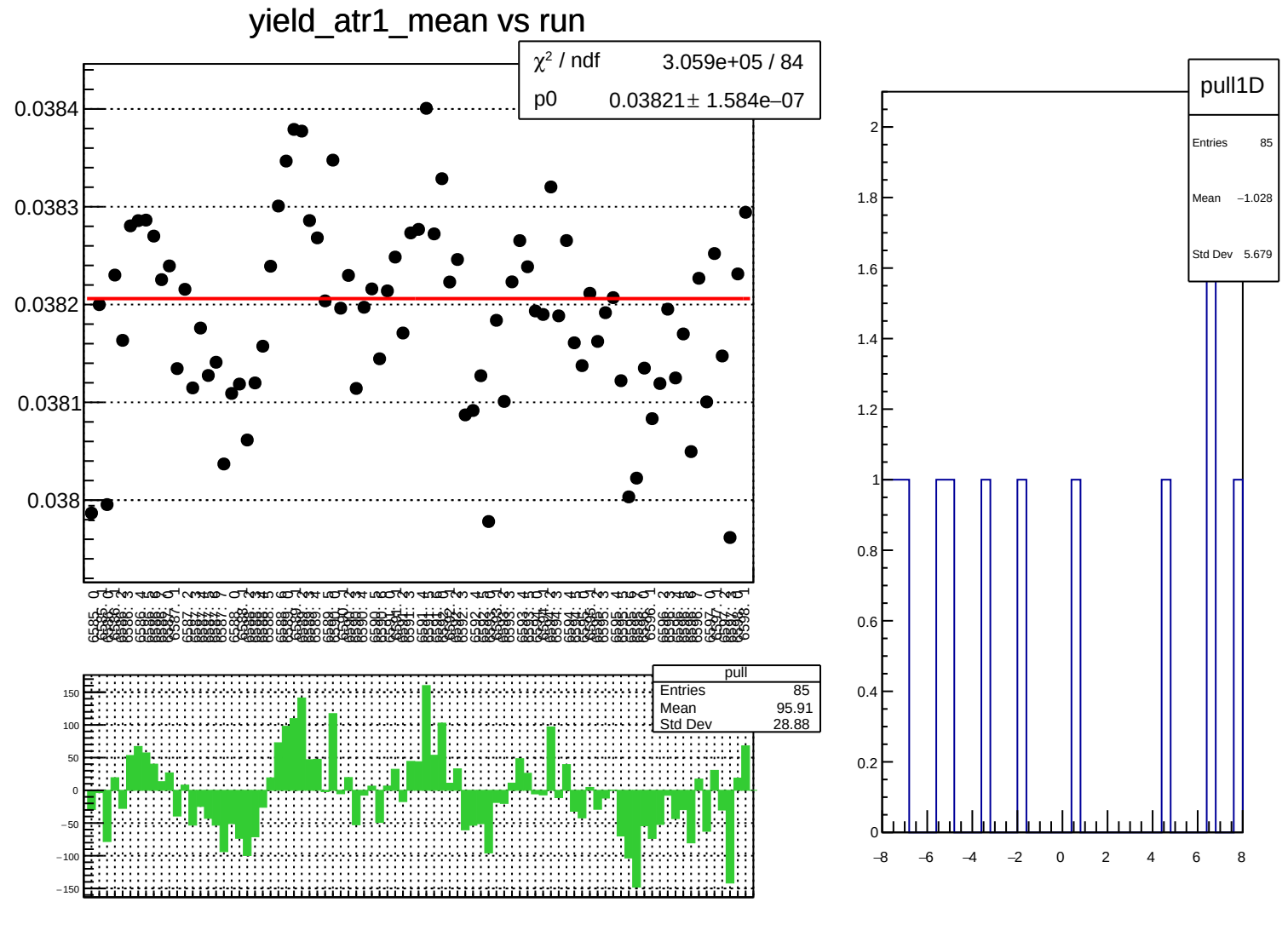

yield_dsr_rms vs run
χ^2 / ndf 5.675e+04 / 84
p0 0.06123 ± 4.792e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

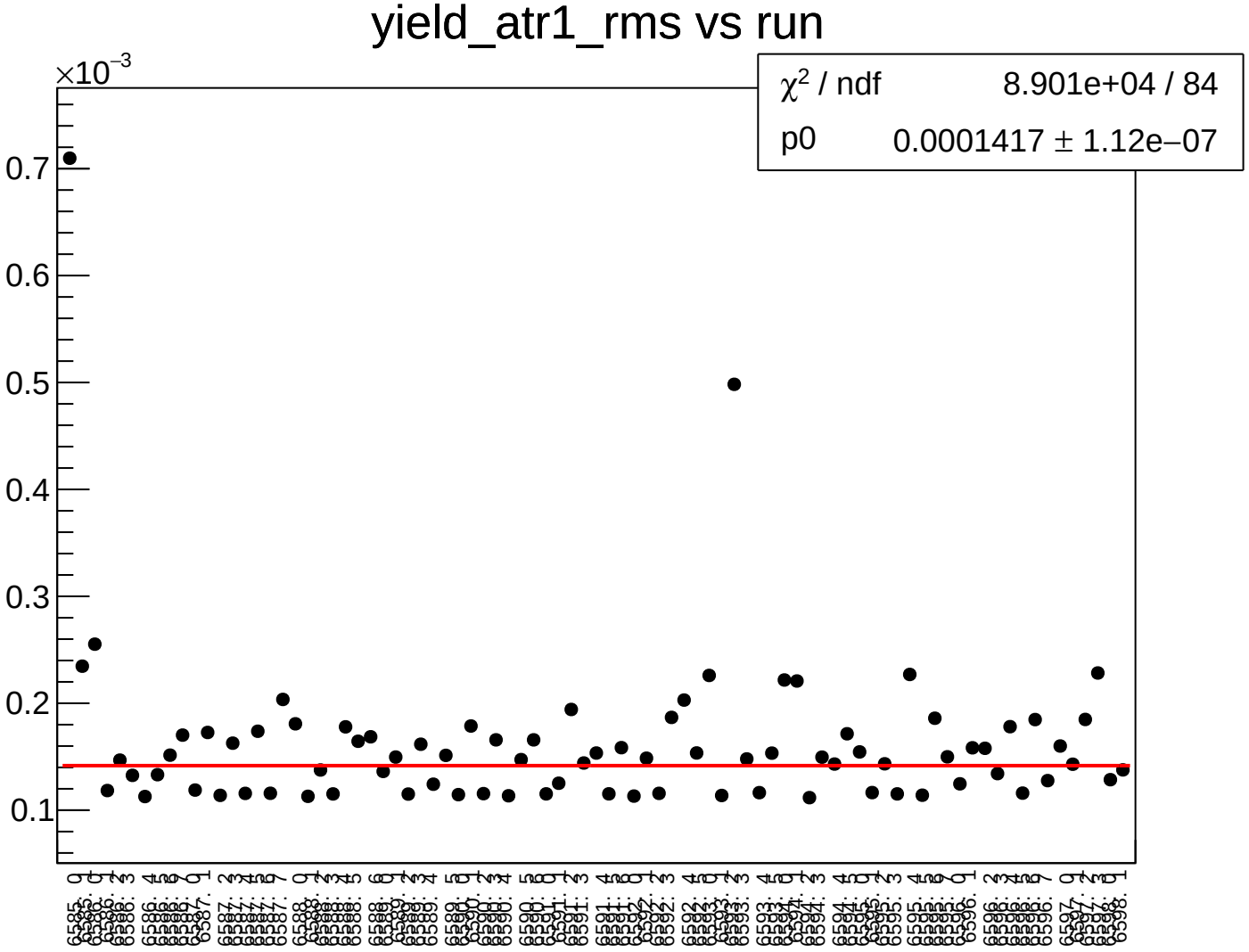

yield_atl1_mean vs run
χ² / ndf 1.02e+05 / 84
p0 0.02344 ± 8.328e−08
pull
Entries 85
Mean −3.55
Std Dev 73.37
pull1D
Entries 85
Mean −0.8499
Std Dev 5.131

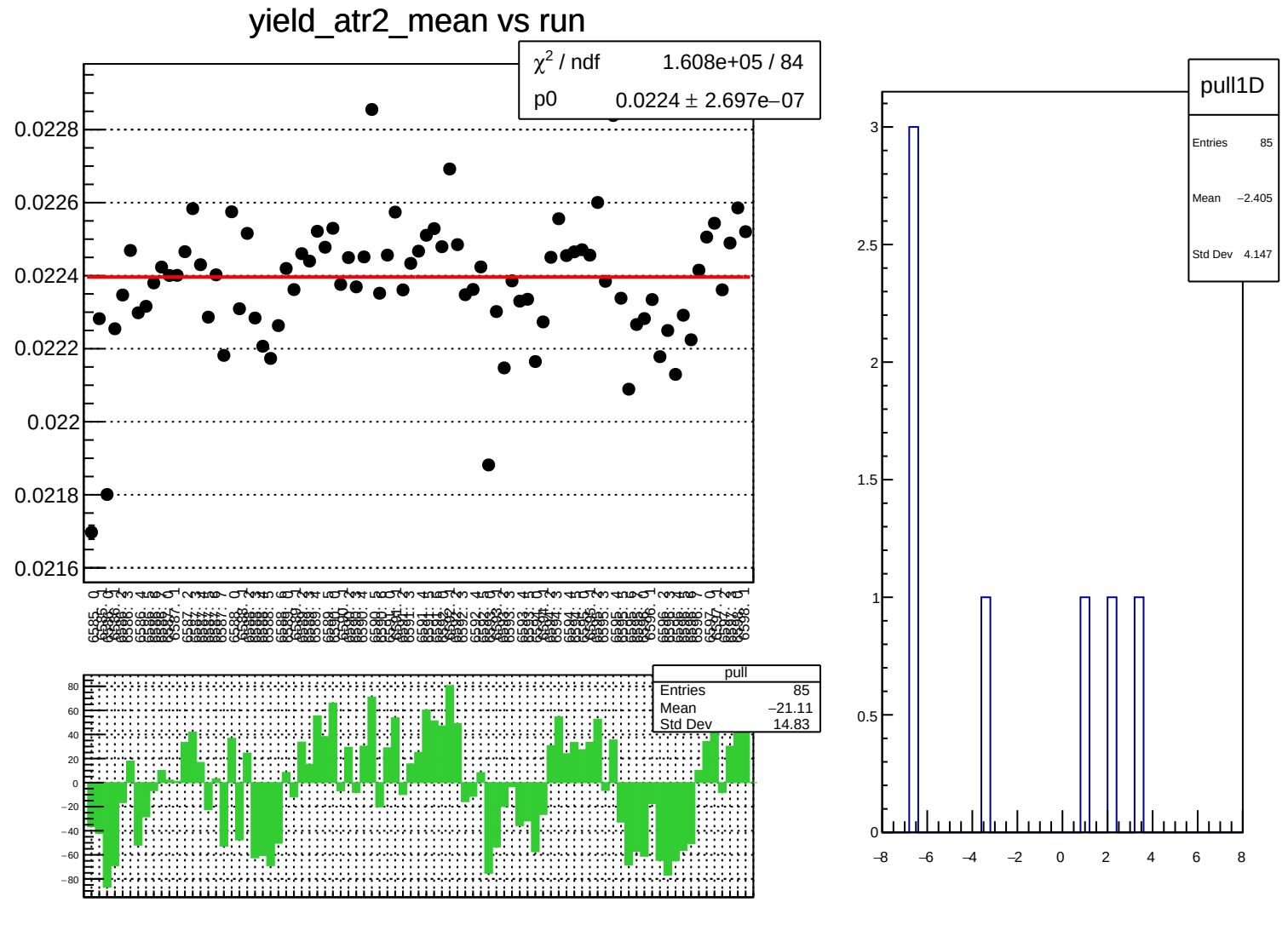

yield_atl1_rms vs run
×10^−3
0.5
0.4
0.3
0.2
0.1
χ² / ndf 7.064e+04 / 84
p0 7.493e−05 ± 5.889e−08


yield_atl2_mean vs run
χ² / ndf 2.645e+05 / 84
p0 0.01962 ± 2.863e−07
0.02
0.0198
0.0196
0.0194
0.0192
0.019
0.0188
0.0186
pull
Entries 85
Mean 54.35
Std Dev 27.51
150
100
50
0
−50
−100
pull1D
Entries 85
Mean 1.996
Std Dev 3.334
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

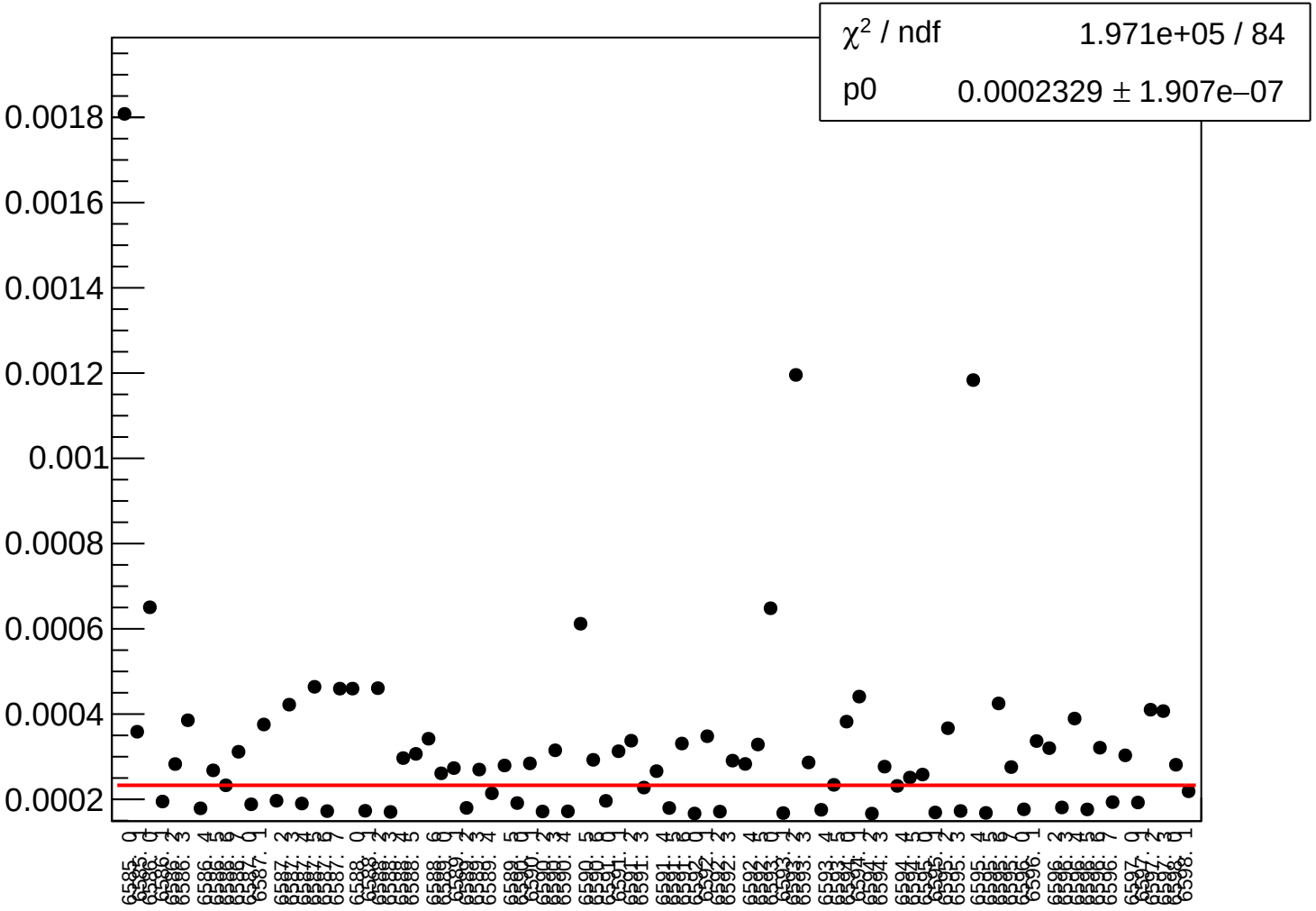

yield_atl2_rms vs run
χ^2 / ndf 2.313e+05 / 84
p0 0.0002444 ± 2.024e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

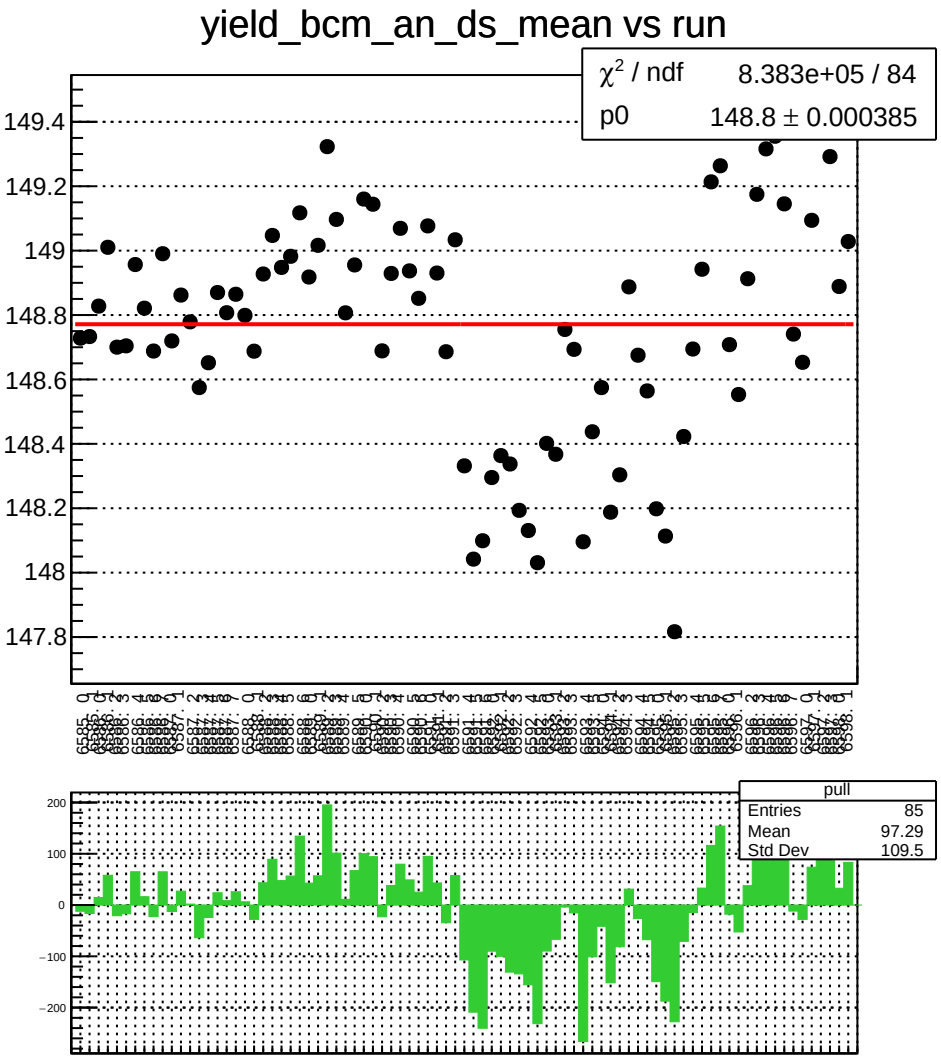

yield_atr1_mean vs run
χ² / ndf 3.059e+05 / 84
p0 0.03821± 1.584e−07
0.0384
0.0383
0.0382
0.0381
0.038
pull
Entries 85
Mean 95.91
Std Dev 28.88
150
100
50
0
−50
−100
−150
pull1D
Entries 85
Mean −1.028
Std Dev 5.679
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

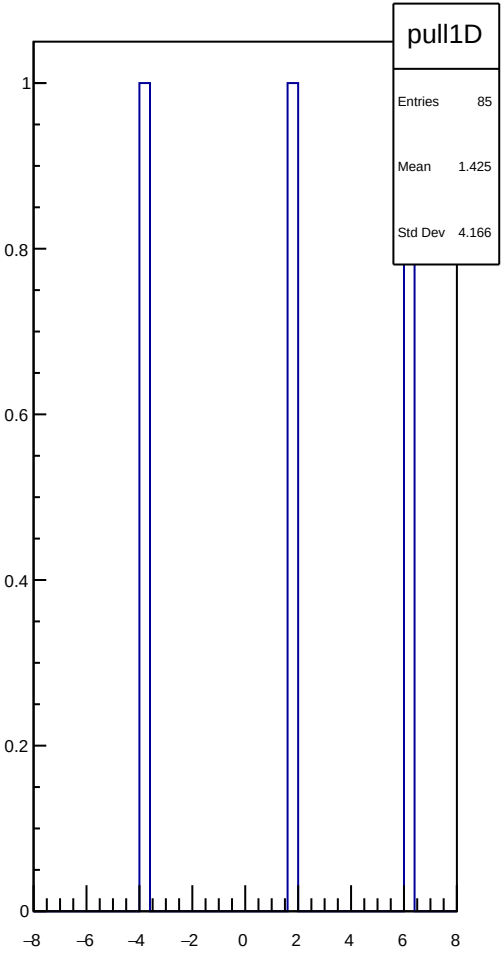

yield_atr1_rms vs run
×10^−3
χ² / ndf 8.901e+04 / 84
p0 0.0001417 ± 1.12e−07
0.7
0.6
0.5
0.4
0.3
0.2
0.1

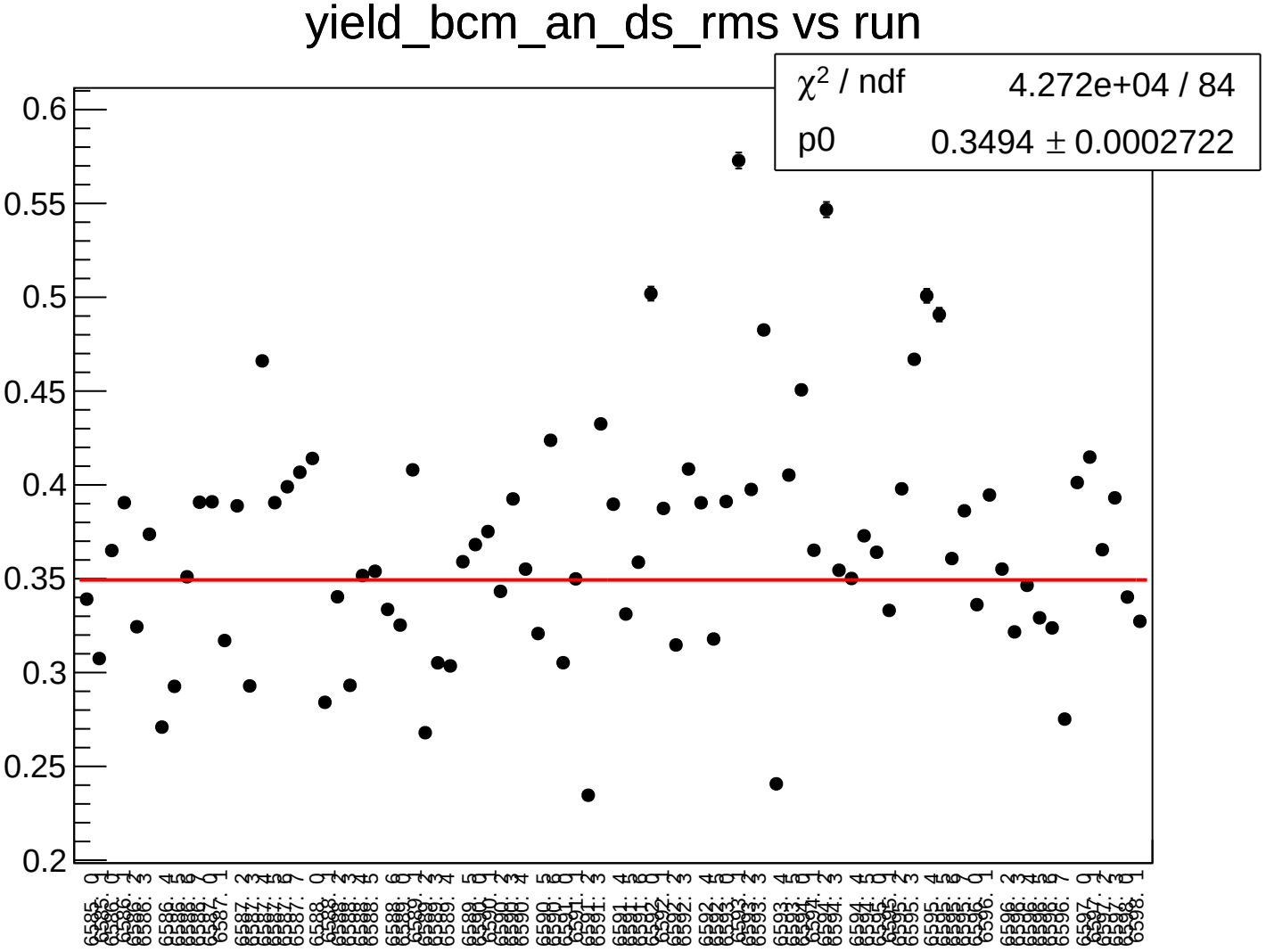

yield_atr2_mean vs run
χ² / ndf 1.608e+05 / 84
p0 0.0224 ± 2.697e−07
0.0228
0.0226
0.0224
0.0222
0.022
0.0218
0.0216
pull
Entries 85
Mean −21.11
Std Dev 14.83
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 85
Mean −2.405
Std Dev 4.147
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

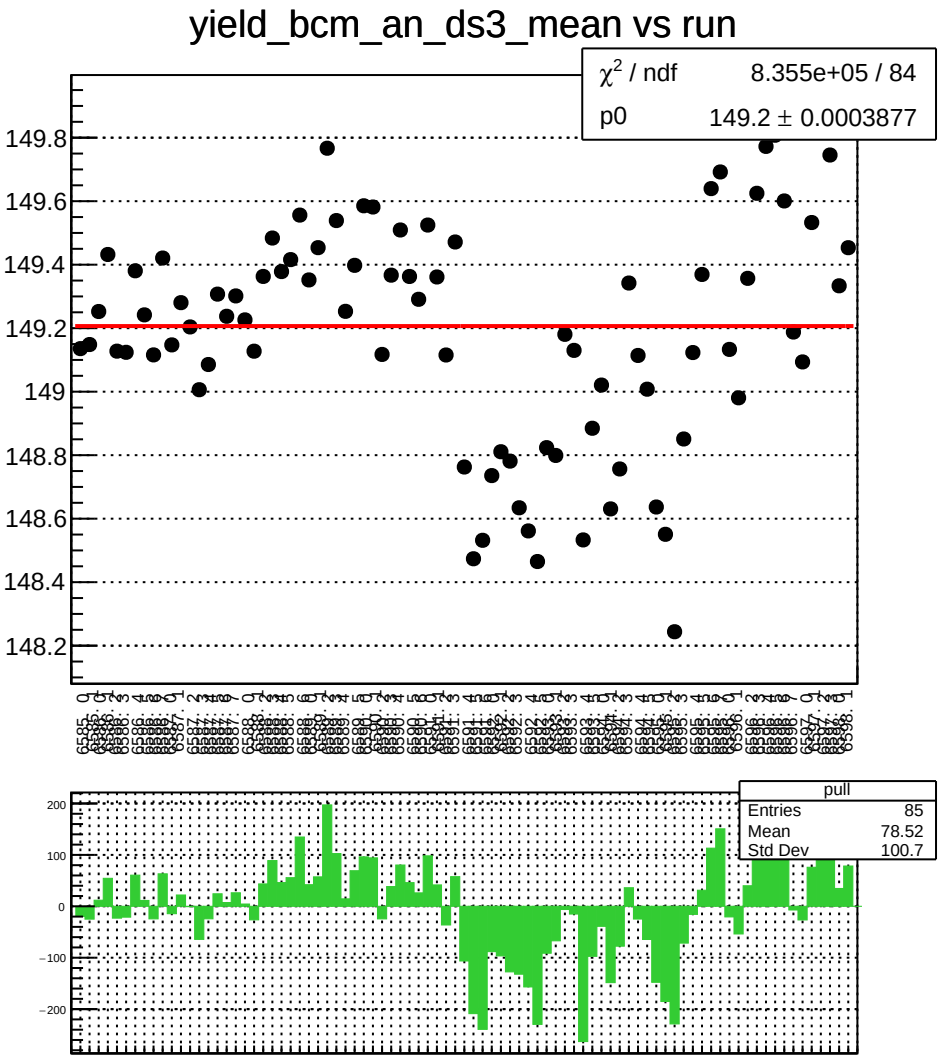
yield_atr2_rms vs run

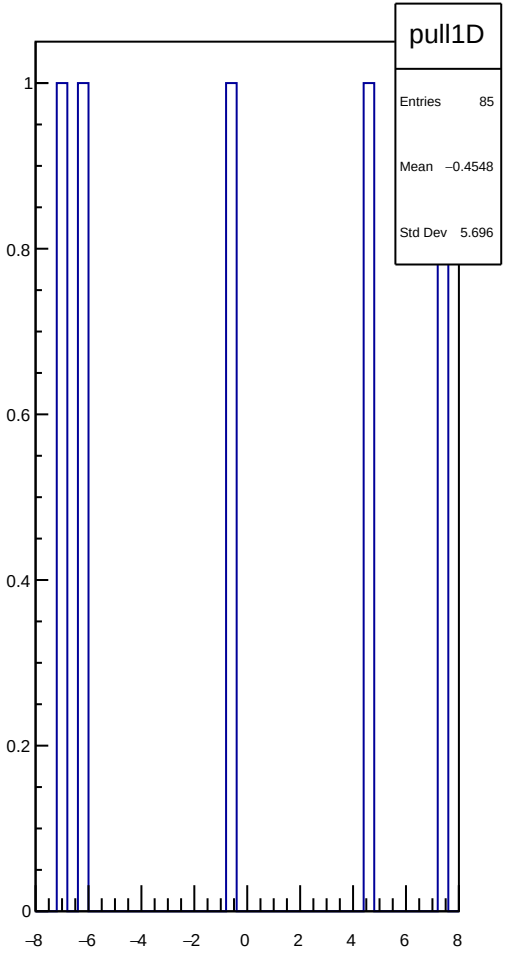


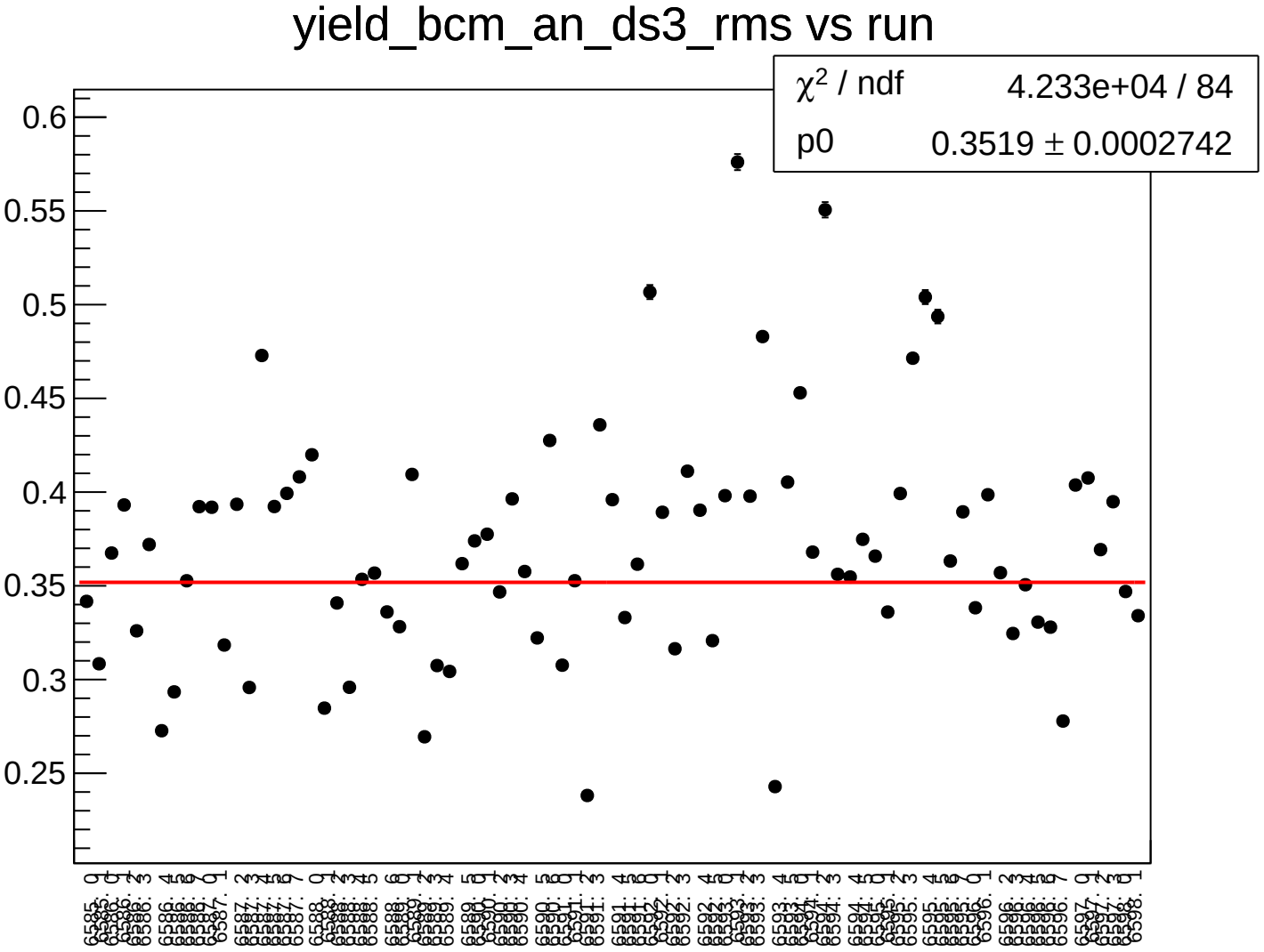

yield_bcm_an_ds_mean vs run
χ² / ndf 8.383e+05 / 84
p0 148.8 ± 0.000385
149.4
149.2
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 85
Mean 97.29
Std Dev 109.5
200
100
0
−100
−200

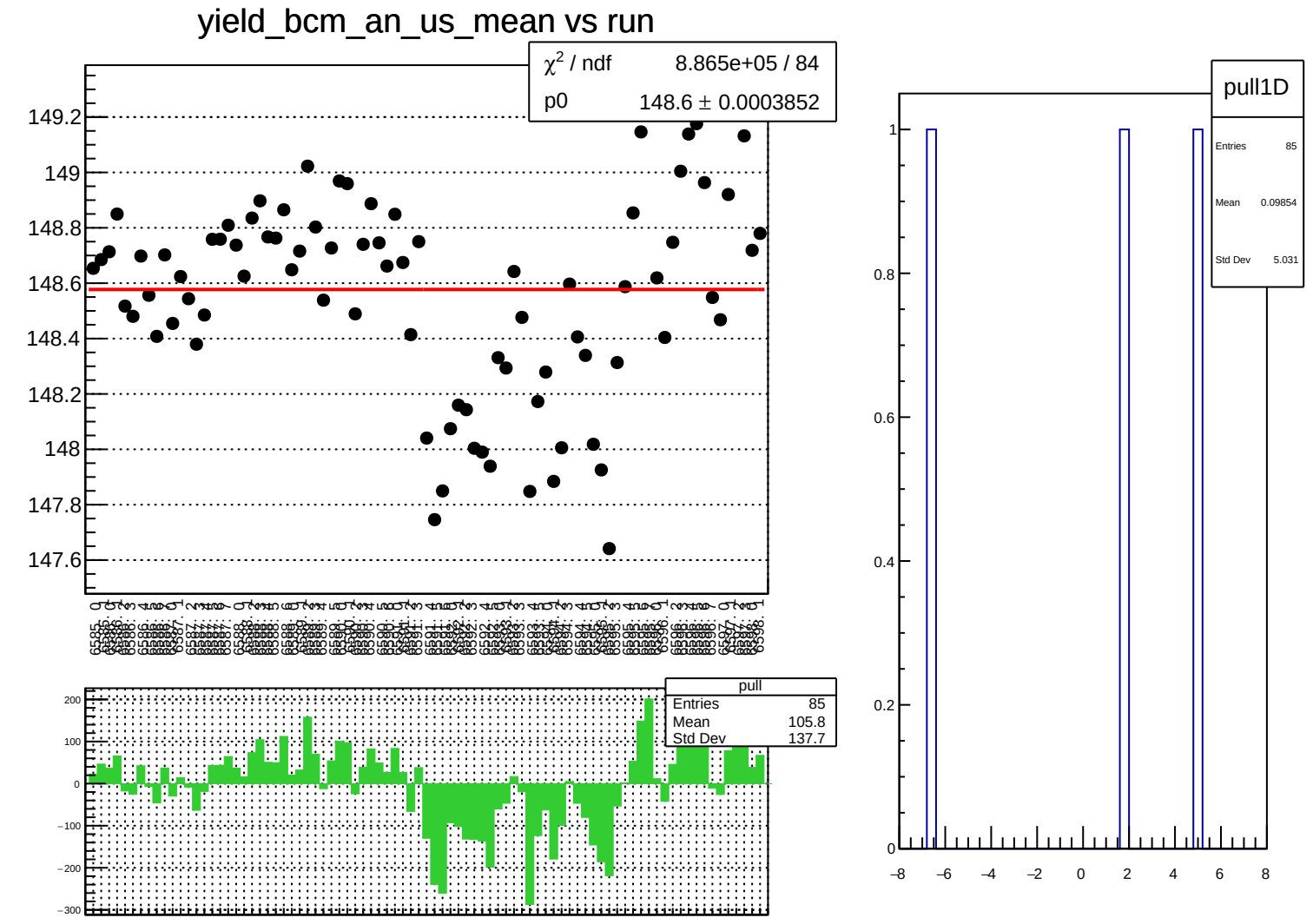

pull1D
Entries 85
Mean 1.425
Std Dev 4.166
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

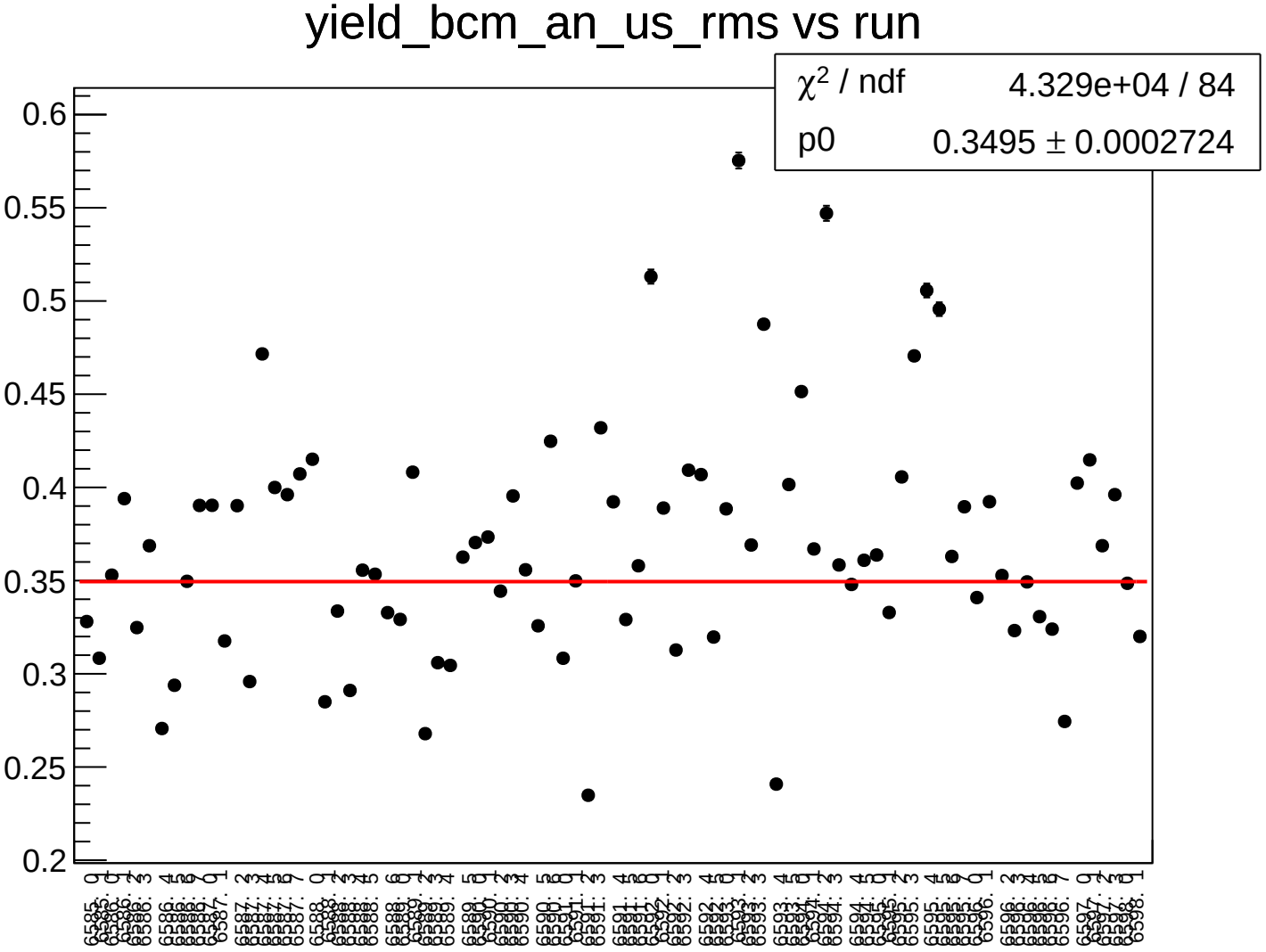

yield_bcm_an_ds_rms vs run
χ^2 / ndf 4.272e+04 / 84
p0 0.3494 ± 0.0002722
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

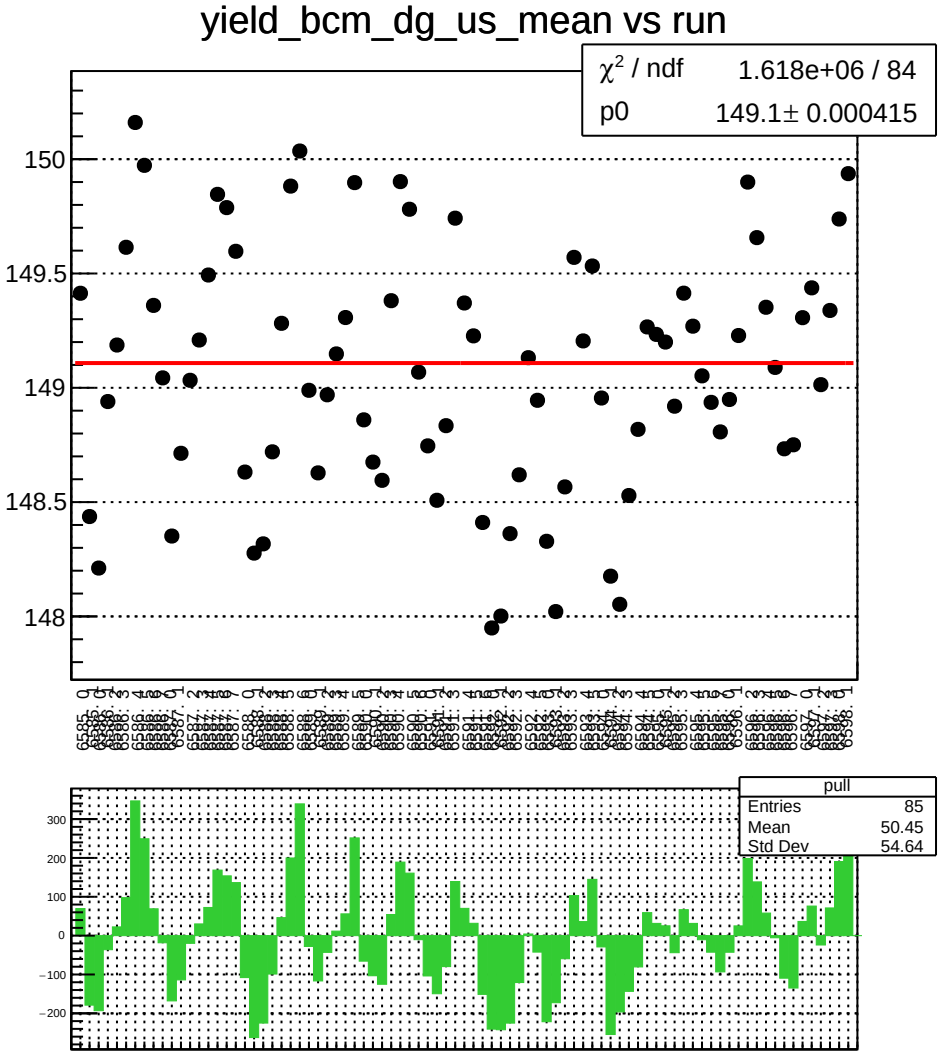

yield_bcm_an_ds3_mean vs run
χ² / ndf 8.355e+05 / 84
p0 149.2 ± 0.0003877
149.8
149.6
149.4
149.2
149
148.8
148.6
148.4
148.2
pull
Entries 85
Mean 78.52
Std Dev 100.7
200
100
0
−100
−200

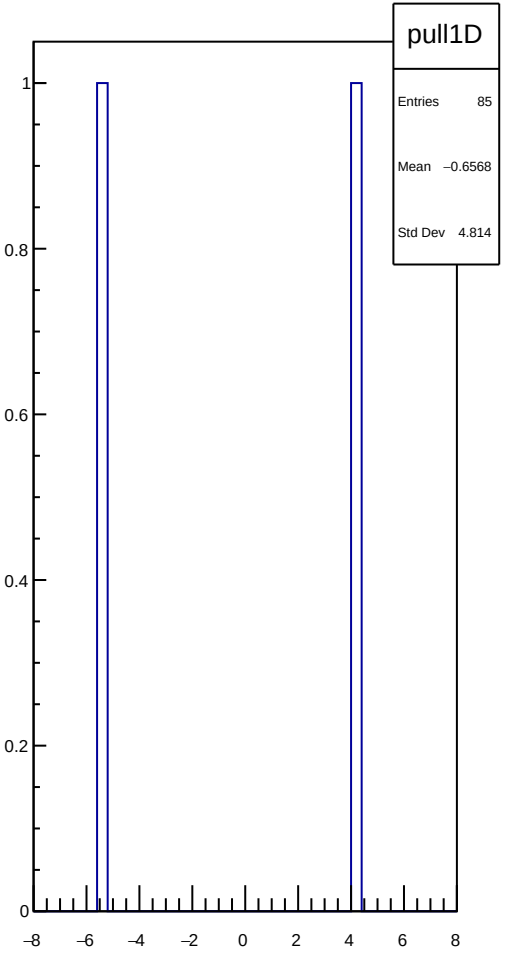

pull1D
Entries 85
Mean −0.4548
Std Dev 5.696
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

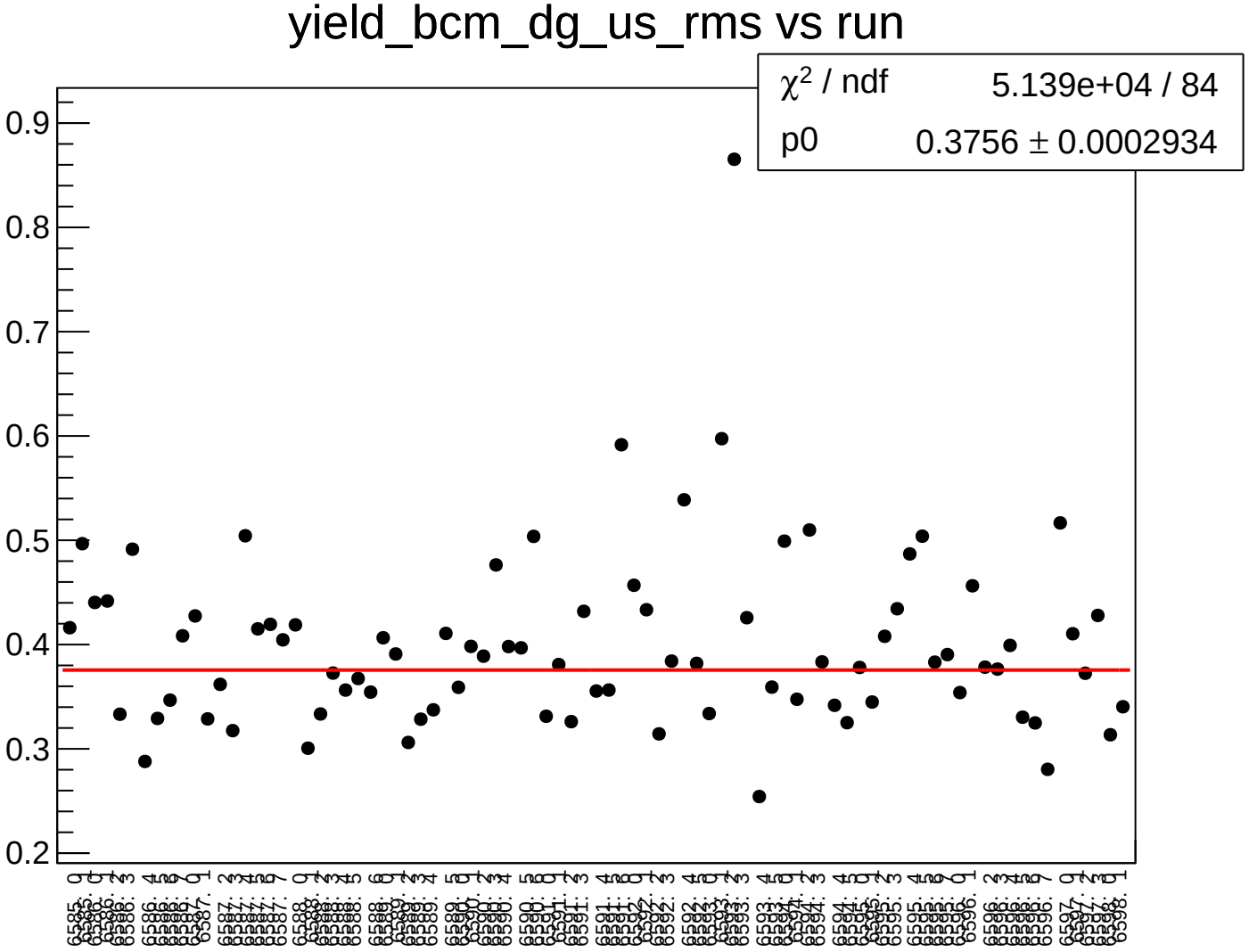

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 4.233e+04 / 84
p0 0.3519 ± 0.0002742
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

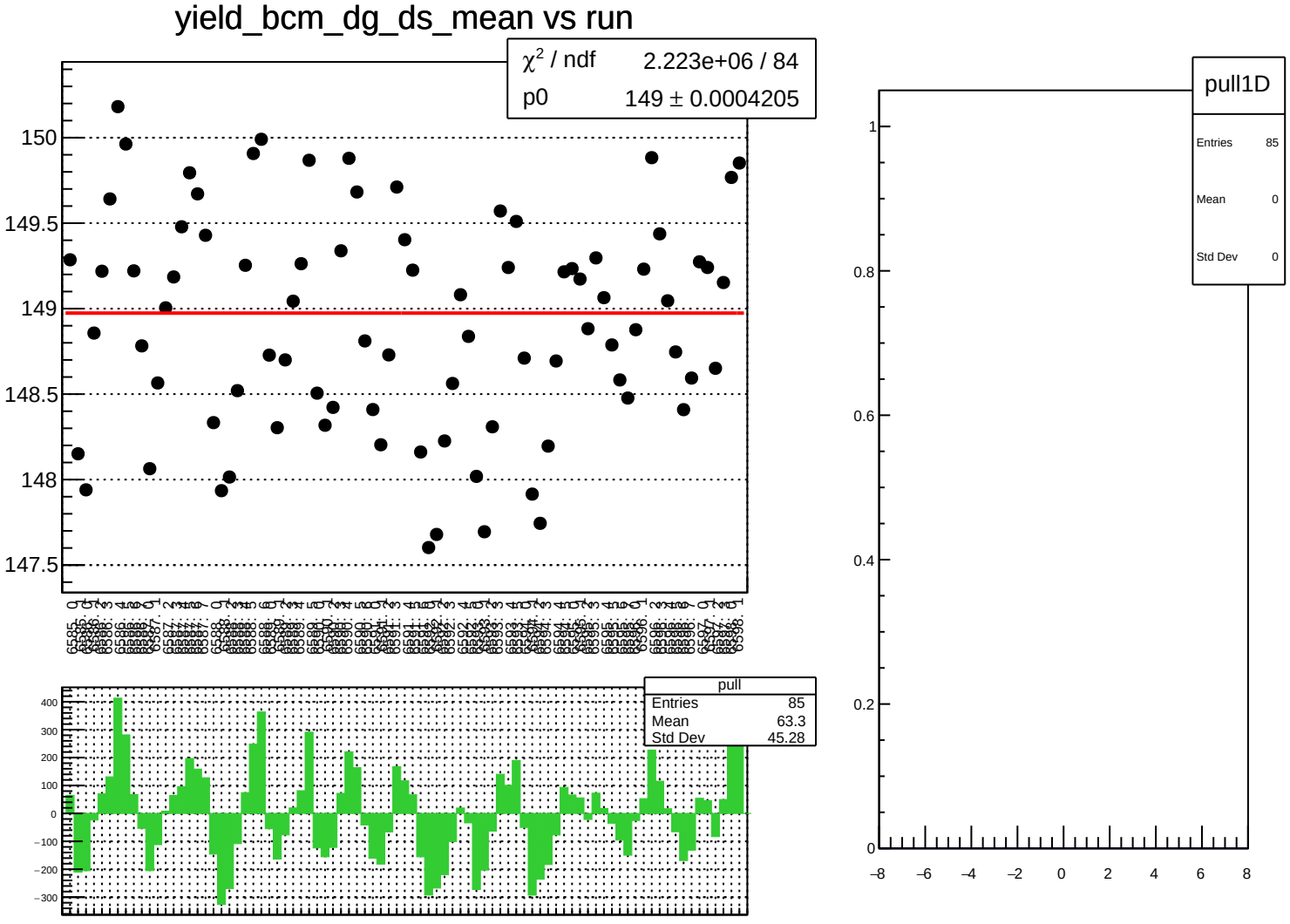

yield_bcm_an_us_mean vs run
χ² / ndf 8.865e+05 / 84
p0 148.6 ± 0.0003852
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 85
Mean 105.8
Std Dev 137.7
200
100
0
−100
−200
−300
pull1D
Entries 85
Mean 0.09854
Std Dev 5.031
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_us_rms vs run
χ^2 / ndf 4.329e+04 / 84
p0 0.3495 ± 0.0002724
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

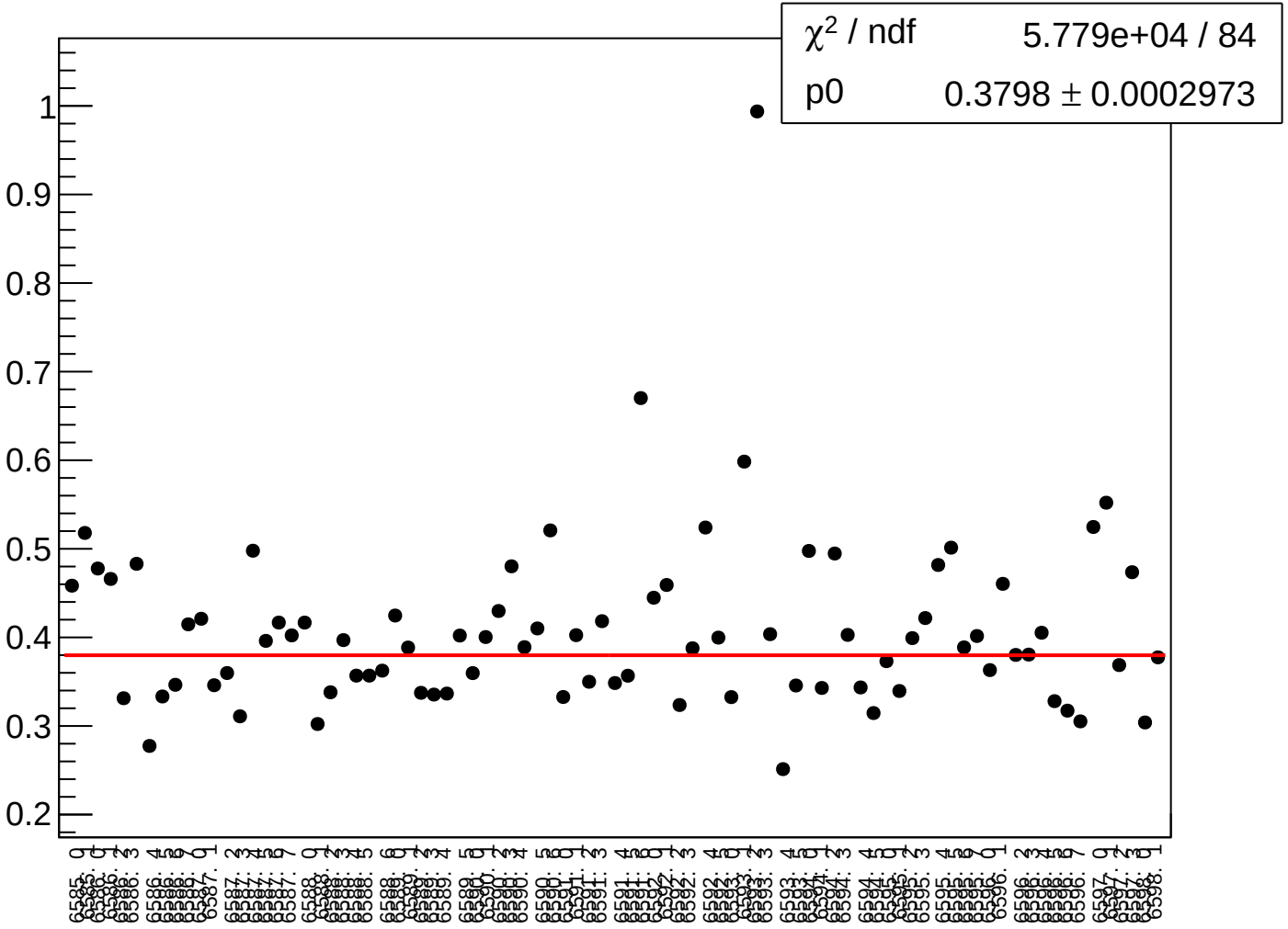

yield_bcm_dg_us_mean vs run
χ² / ndf 1.618e+06 / 84
p0 149.1± 0.000415
150
149.5
149
148.5
148
pull
Entries 85
Mean 50.45
Std Dev 54.64
300
200
100
0
−100
−200

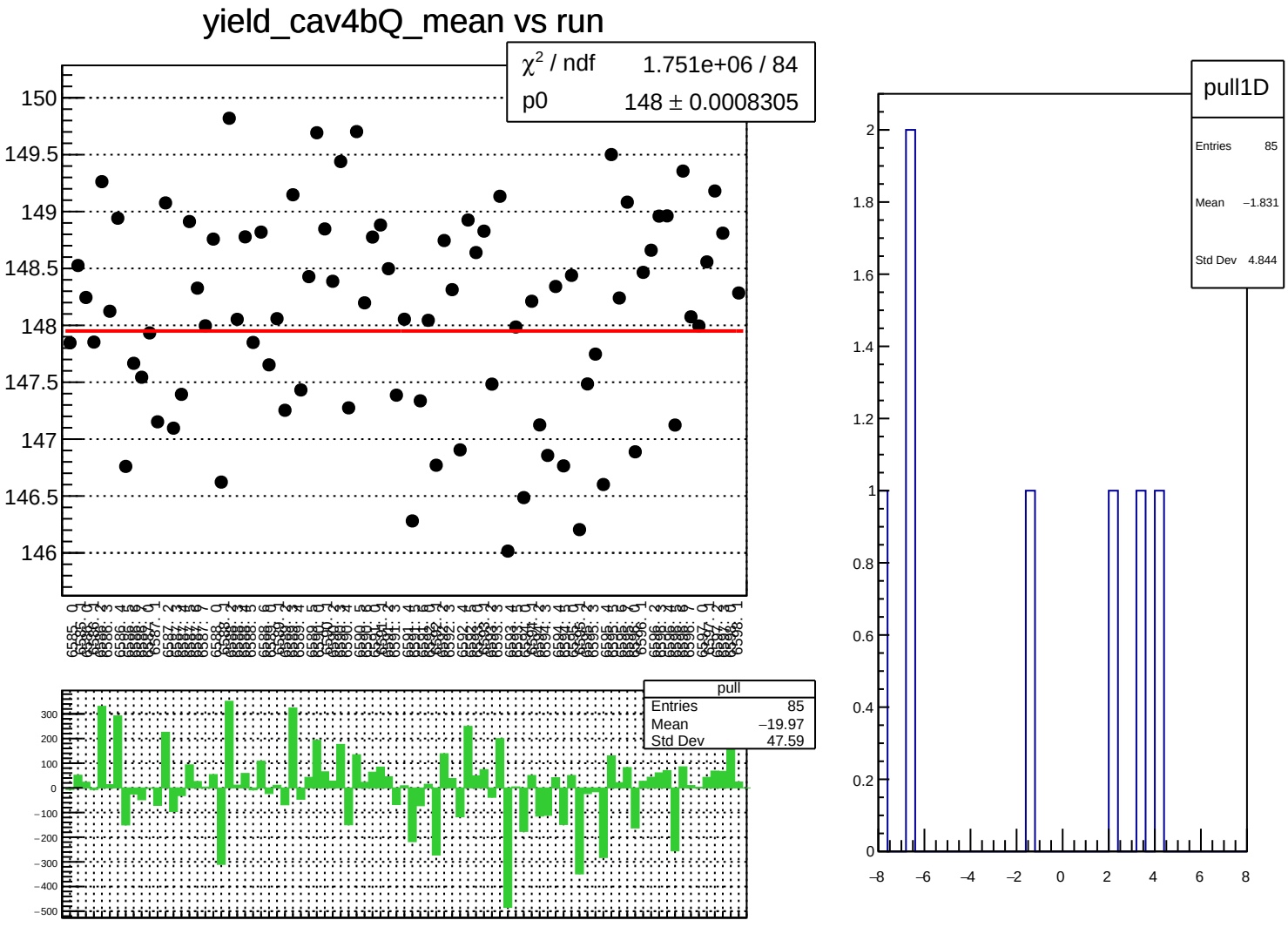

pull1D
Entries 85
Mean −0.6568
Std Dev 4.814
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_dg_us_rms vs run
χ^2 / ndf 5.139e+04 / 84
p0 0.3756 ± 0.0002934
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

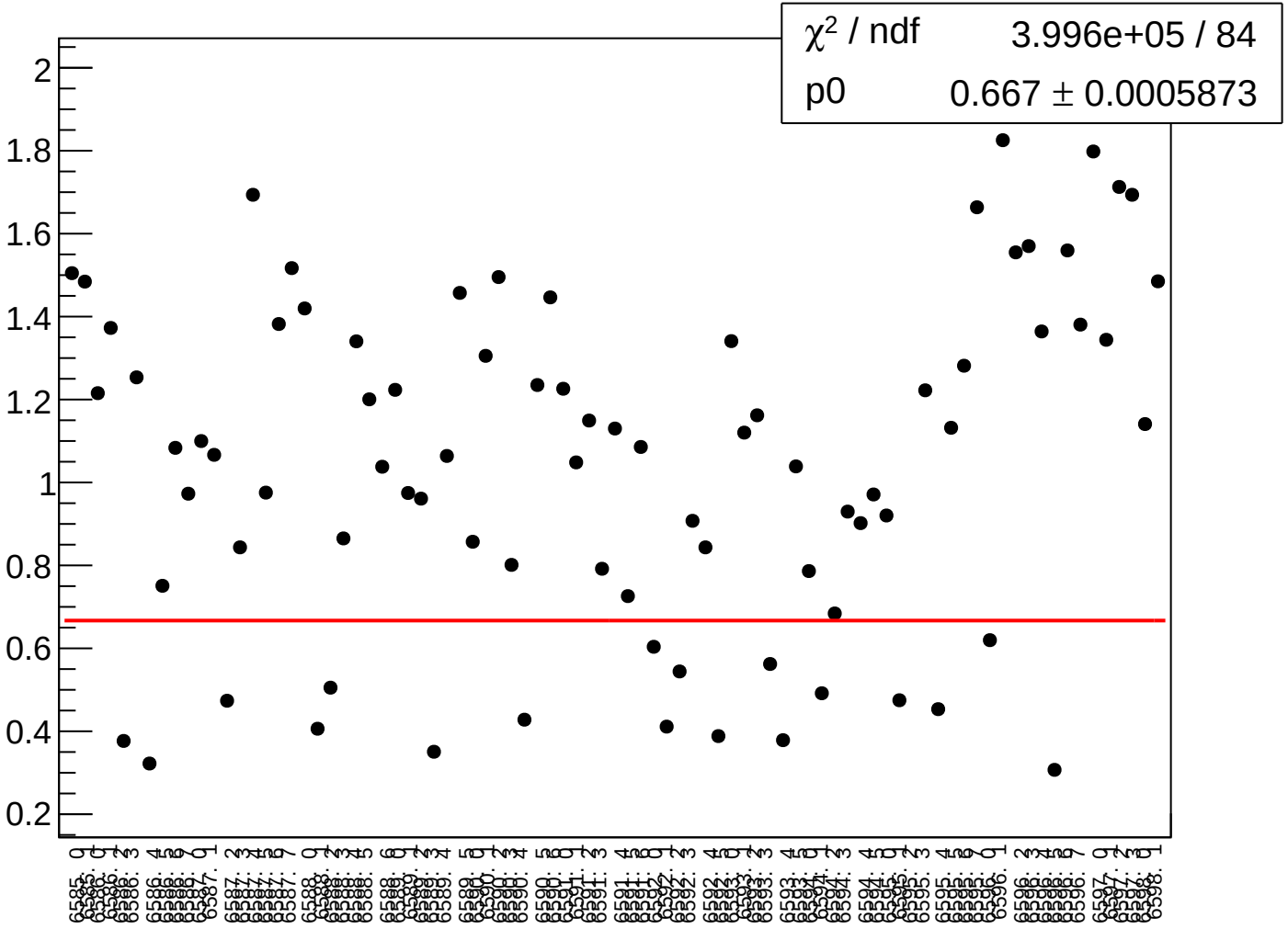

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.223e+06 / 84
p0 149 ± 0.0004205
150
149.5
149
148.5
148
147.5
pull
Entries 85
Mean 63.3
Std Dev 45.28
400
300
200
100
0
−100
−200
−300
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

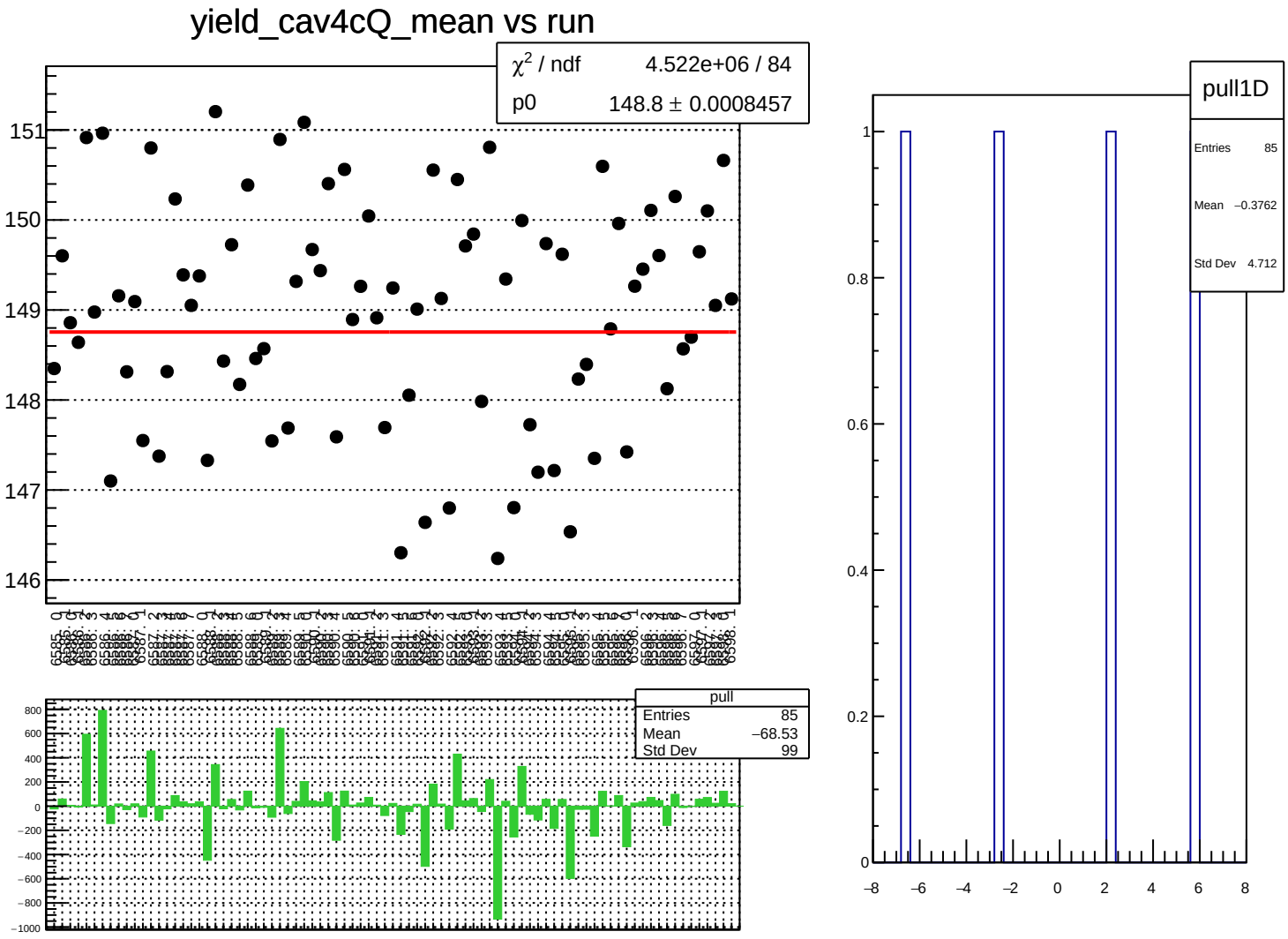
yield_bcm_dg_ds_rms vs run

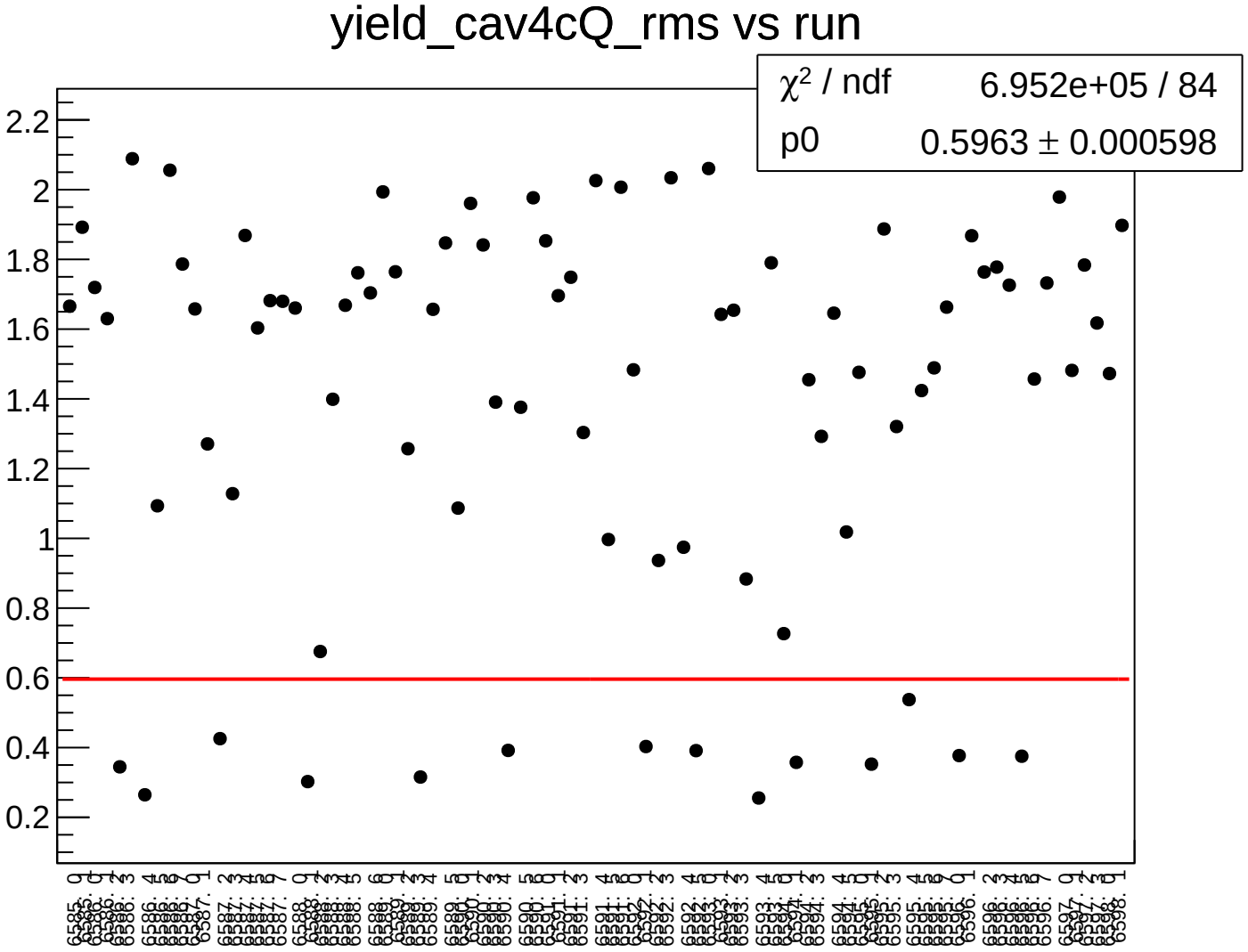


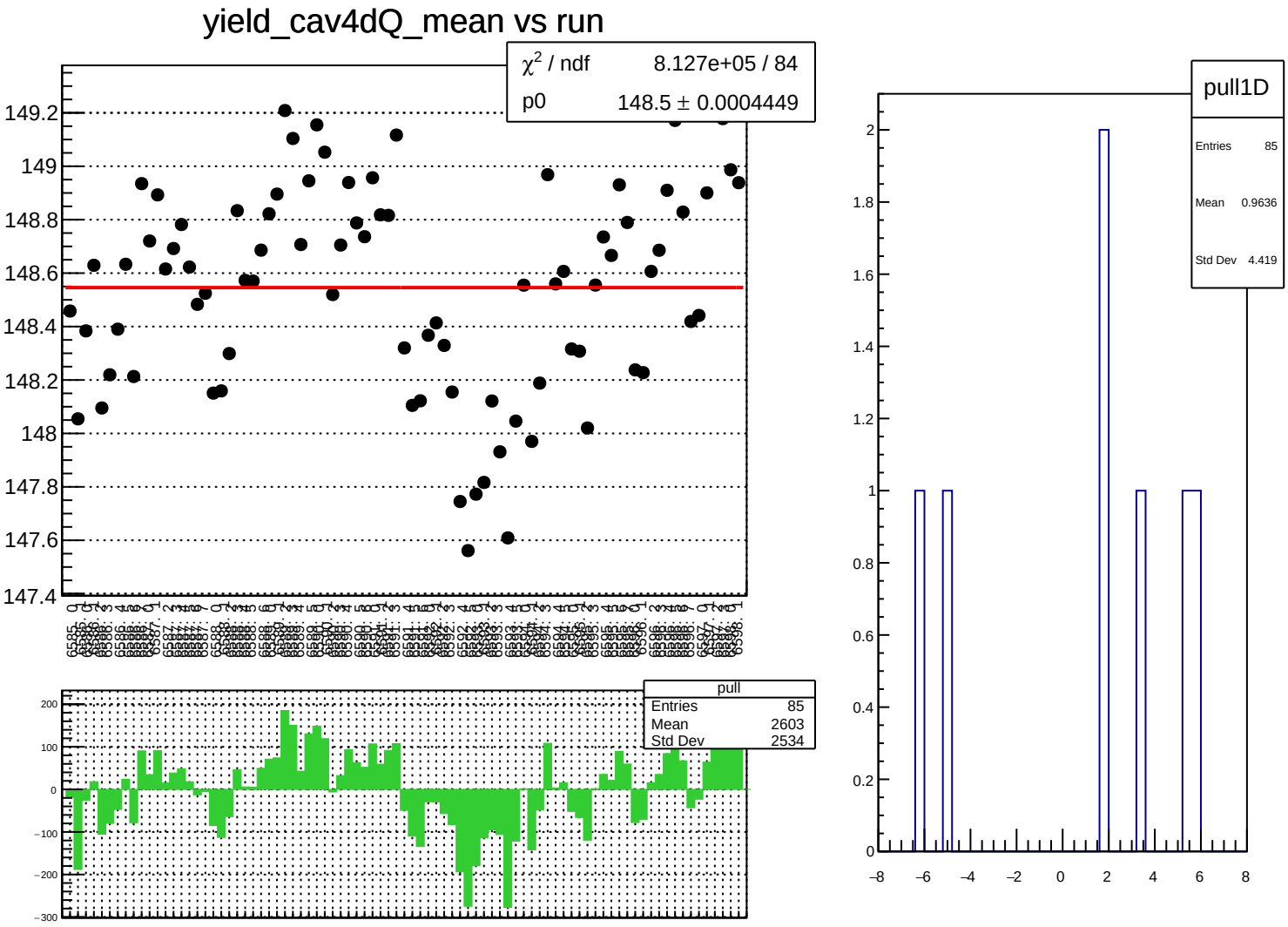

yield_cav4bQ_mean vs run
χ² / ndf 1.751e+06 / 84
p0 148 ± 0.0008305
pull
Entries 85
Mean −19.97
Std Dev 47.59
pull1D
Entries 85
Mean −1.831
Std Dev 4.844

yield_cav4bQ_rms vs run

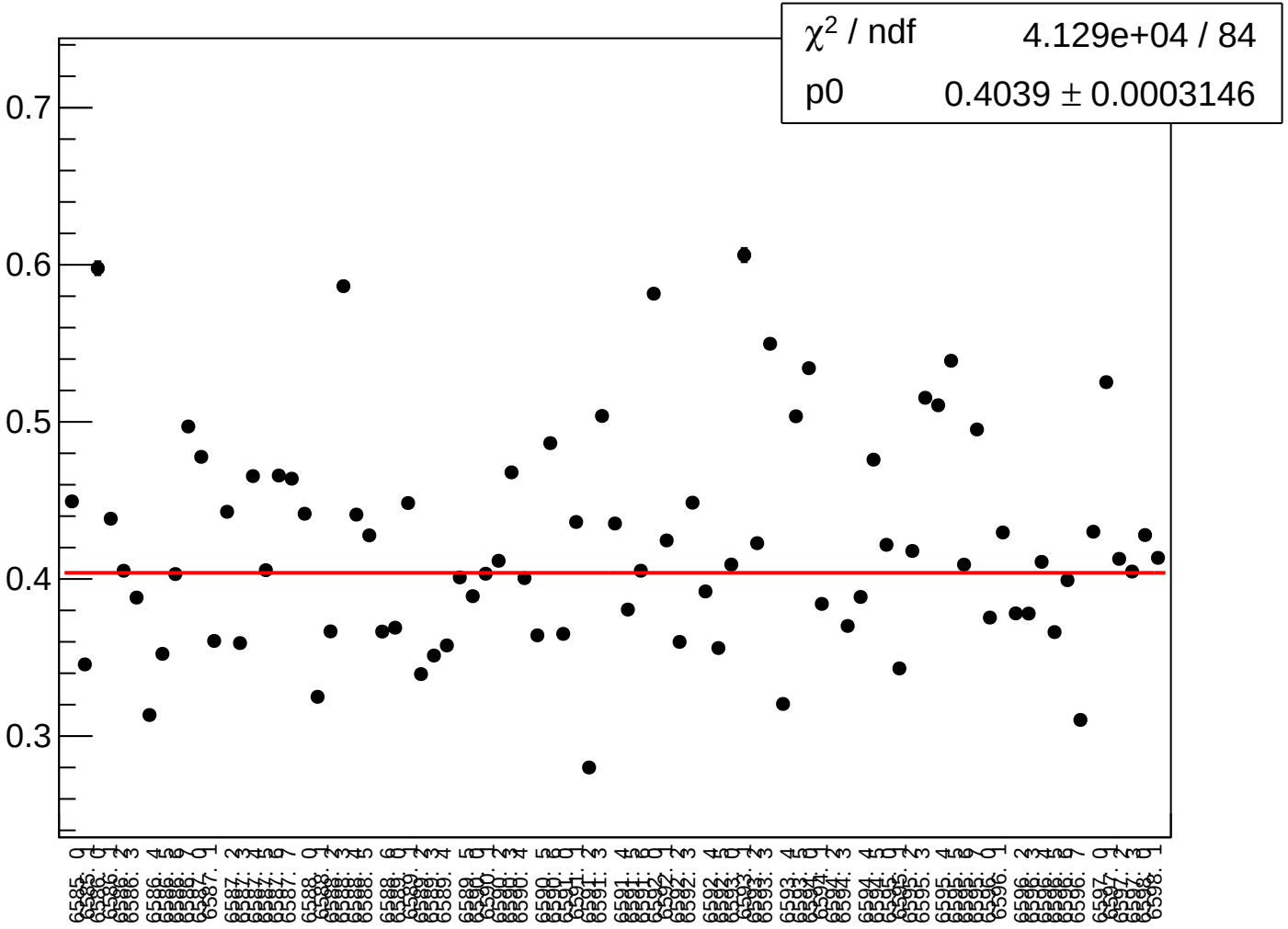


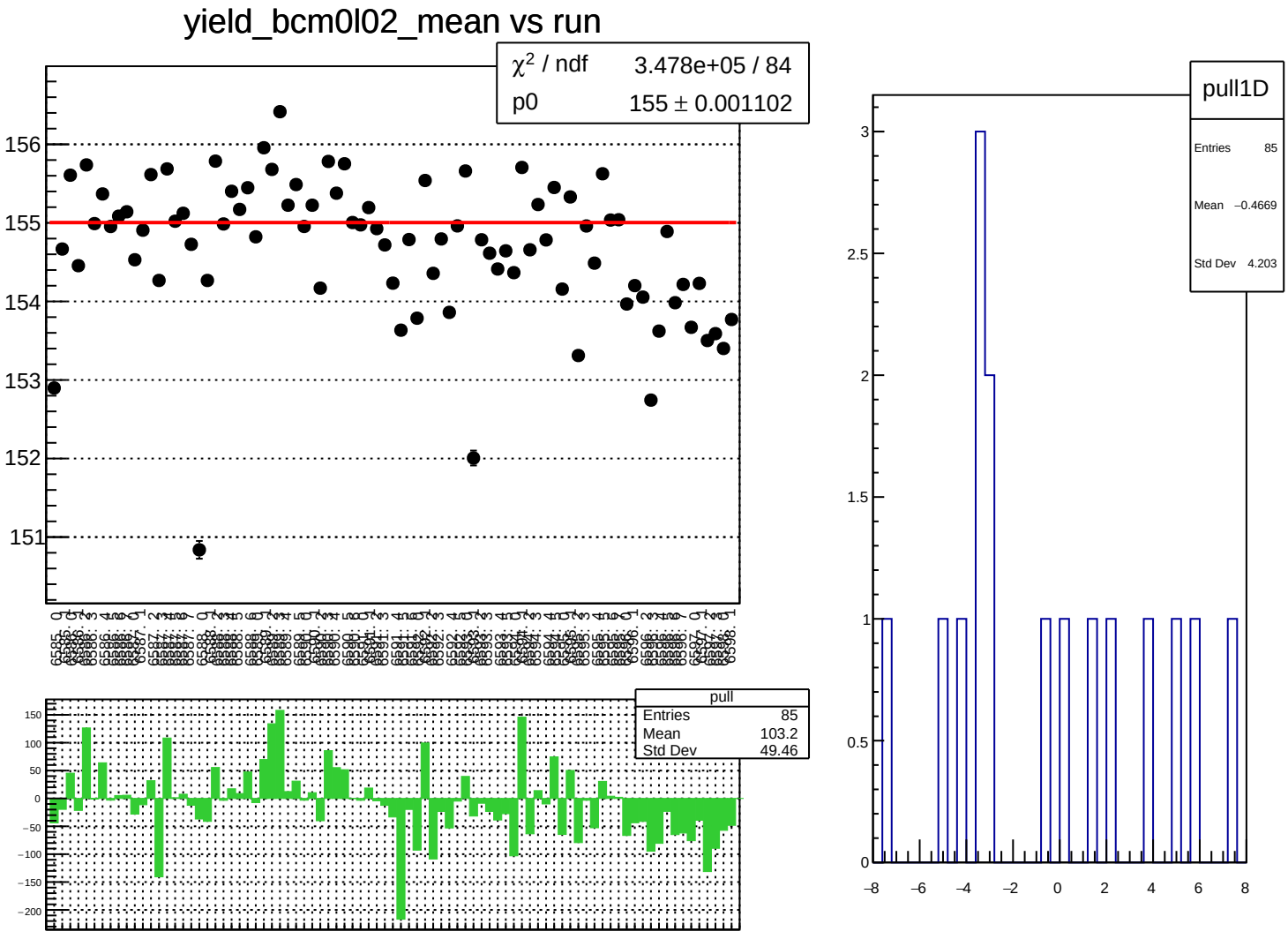

yield_cav4cQ_mean vs run
χ² / ndf 4.522e+06 / 84
p0 148.8 ± 0.0008457
151
150
149
148
147
146
pull
Entries 85
Mean −68.53
Std Dev 99
800
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 85
Mean −0.3762
Std Dev 4.712
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cQ_rms vs run
χ2 / ndf 6.952e+05 / 84
p0 0.5963 ± 0.000598
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

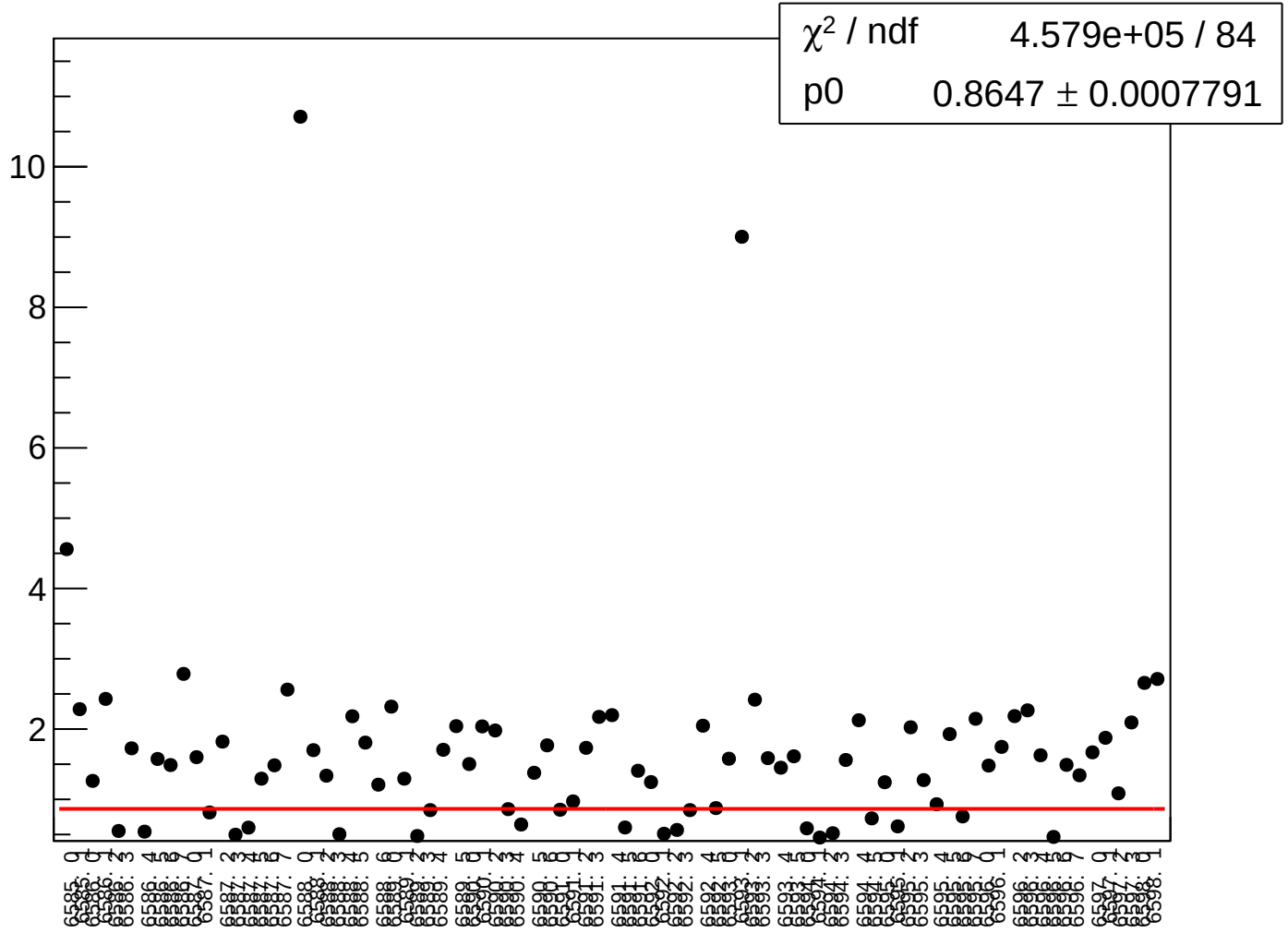

yield_cav4dQ_mean vs run
χ^2 / ndf 8.127e+05 / 84
p0 148.5 ± 0.0004449
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 85
Mean 2603
Std Dev 2534
200
100
0
−100
−200
−300
pull1D
Entries 85
Mean 0.9636
Std Dev 4.419
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

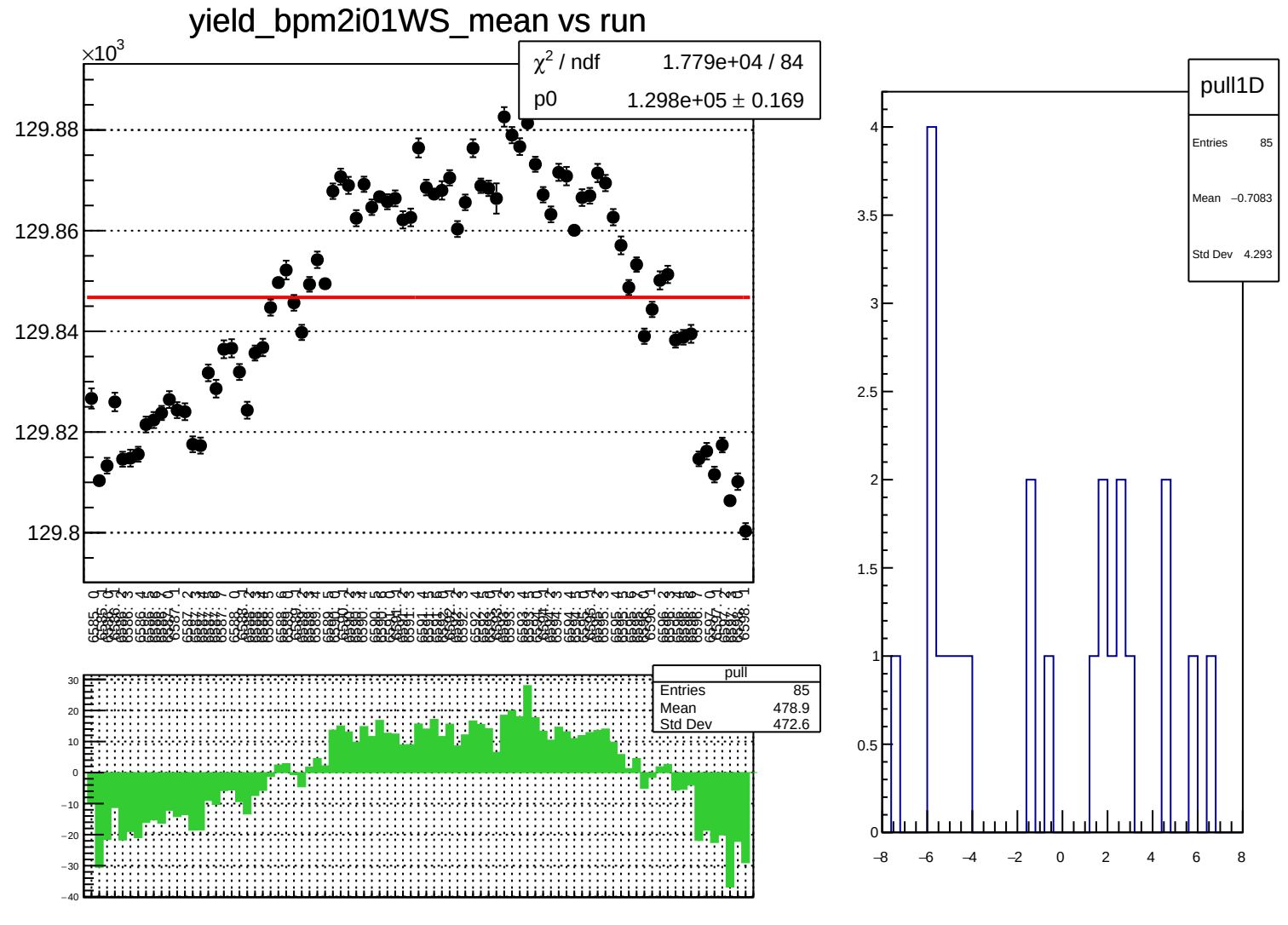
yield_cav4dQ_rms vs run

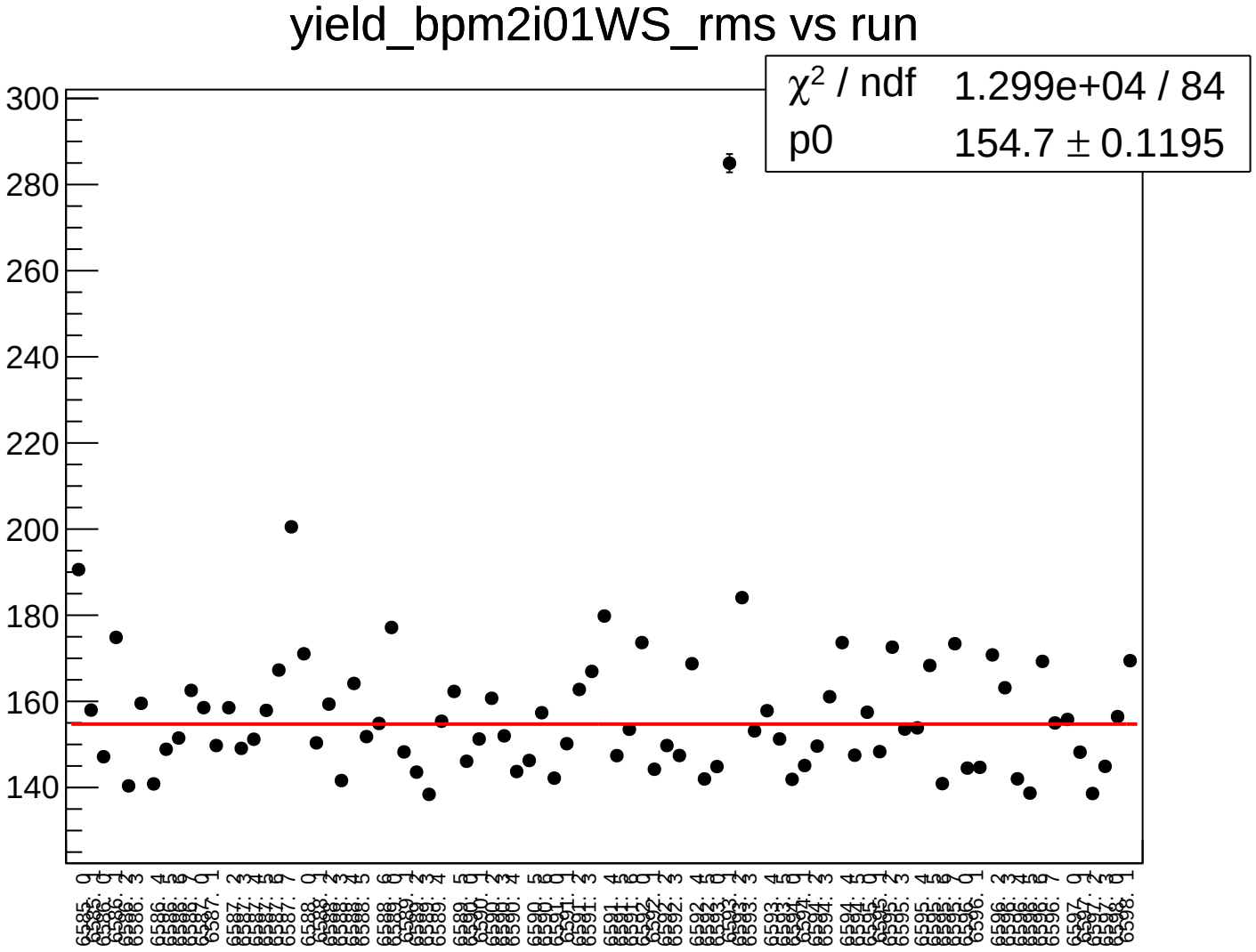


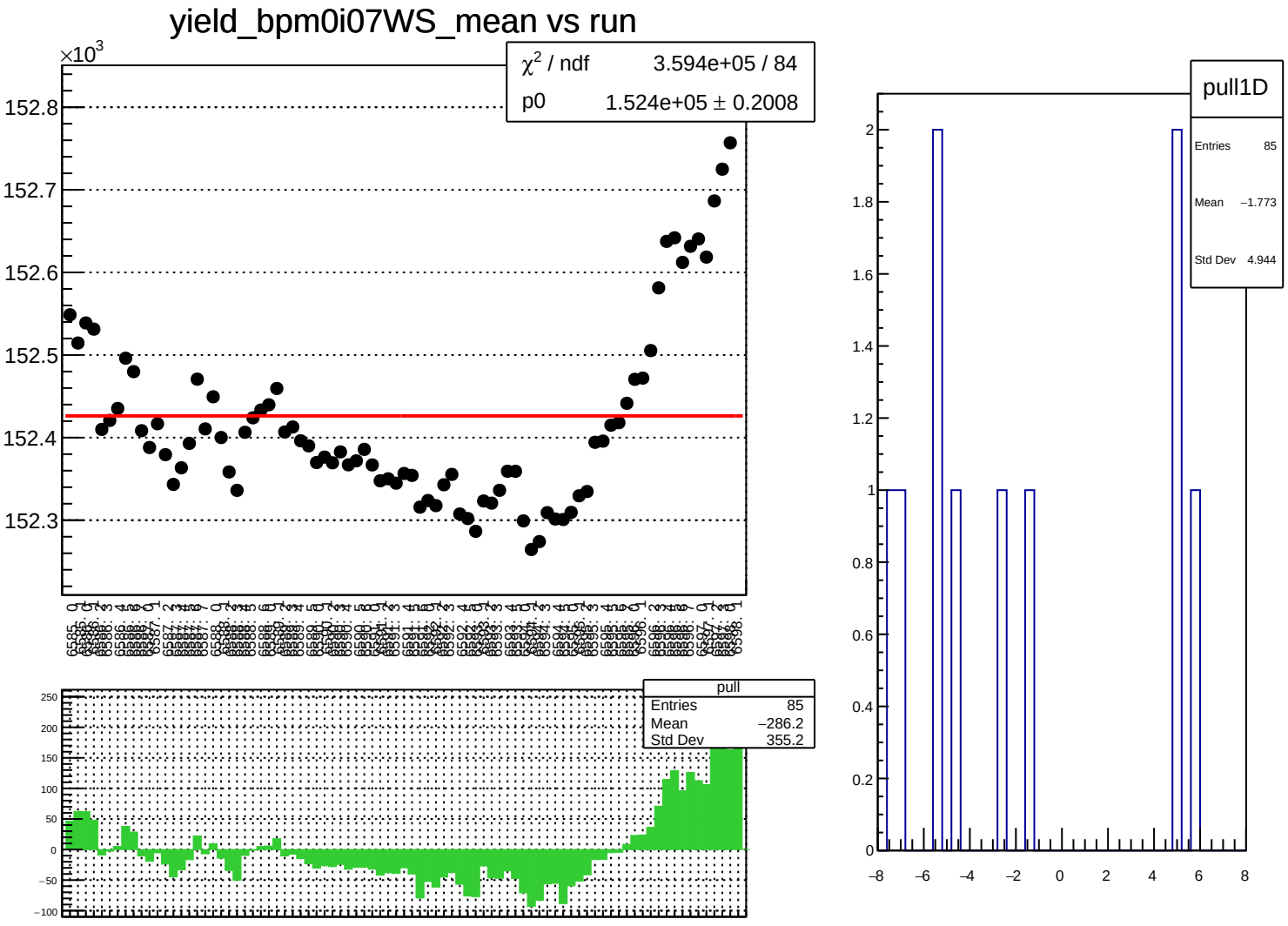

yield_bcm0l02_mean vs run
χ² / ndf 3.478e+05 / 84
p0 155 ± 0.001102
156
155
154
153
152
151
pull
Entries 85
Mean 103.2
Std Dev 49.46
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 85
Mean −0.4669
Std Dev 4.203
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

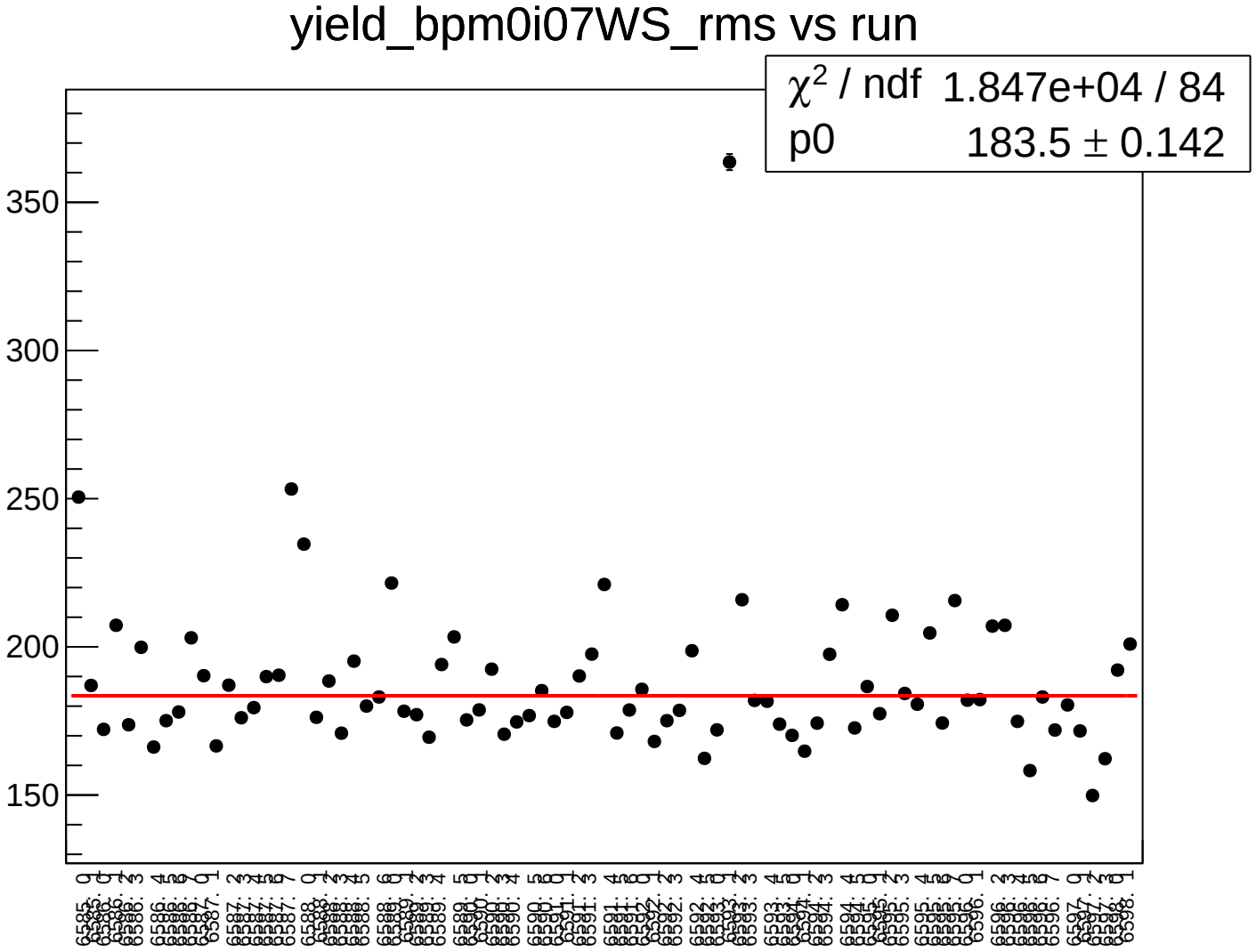
yield_bcm0l02_rms vs run

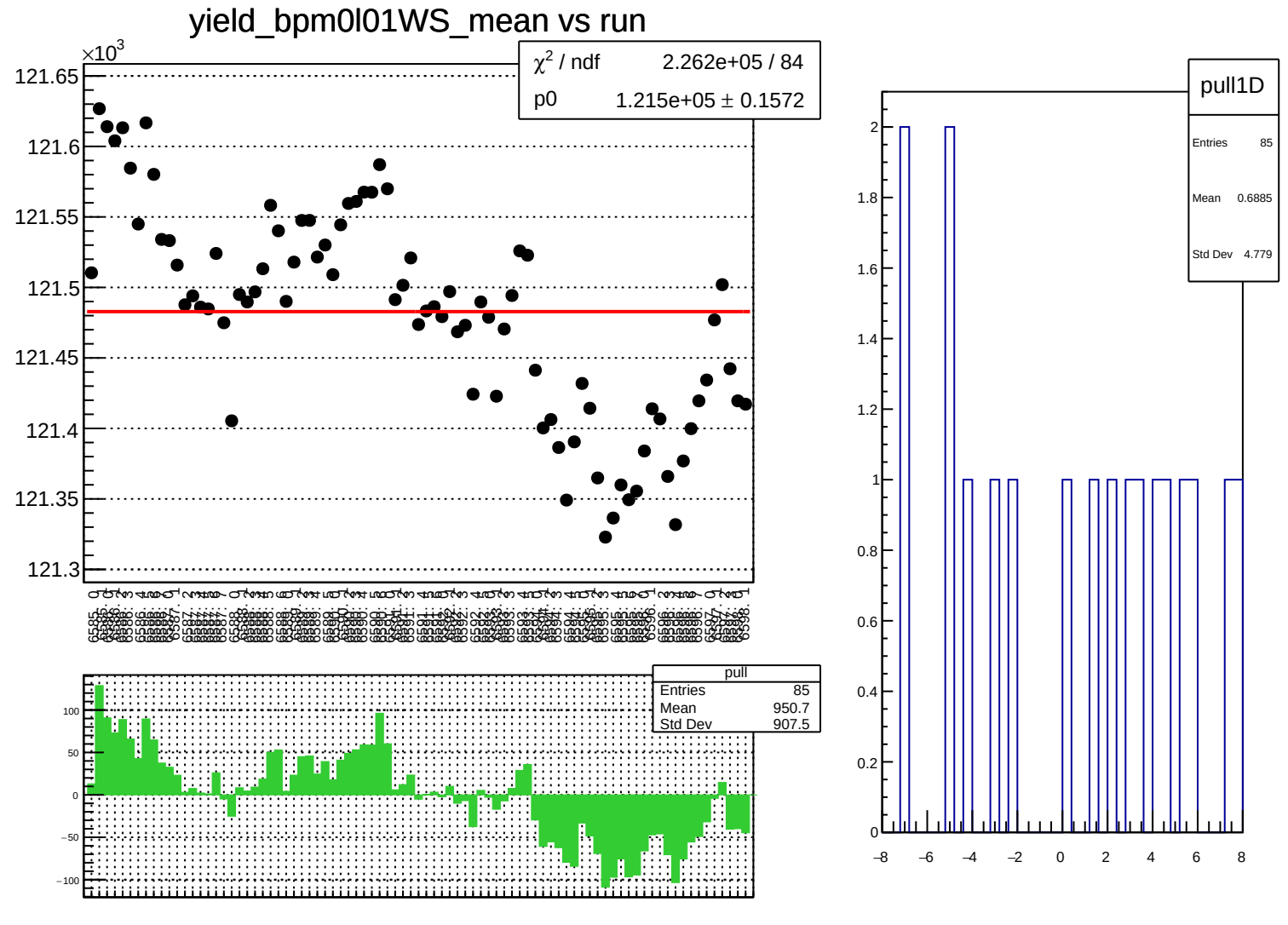



yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.779e+04 / 84
p0 1.298e+05 ± 0.169
129.88
129.86
129.84
129.82
129.8
pull
Entries 85
Mean 478.9
Std Dev 472.6
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 85
Mean −0.7083
Std Dev 4.293
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

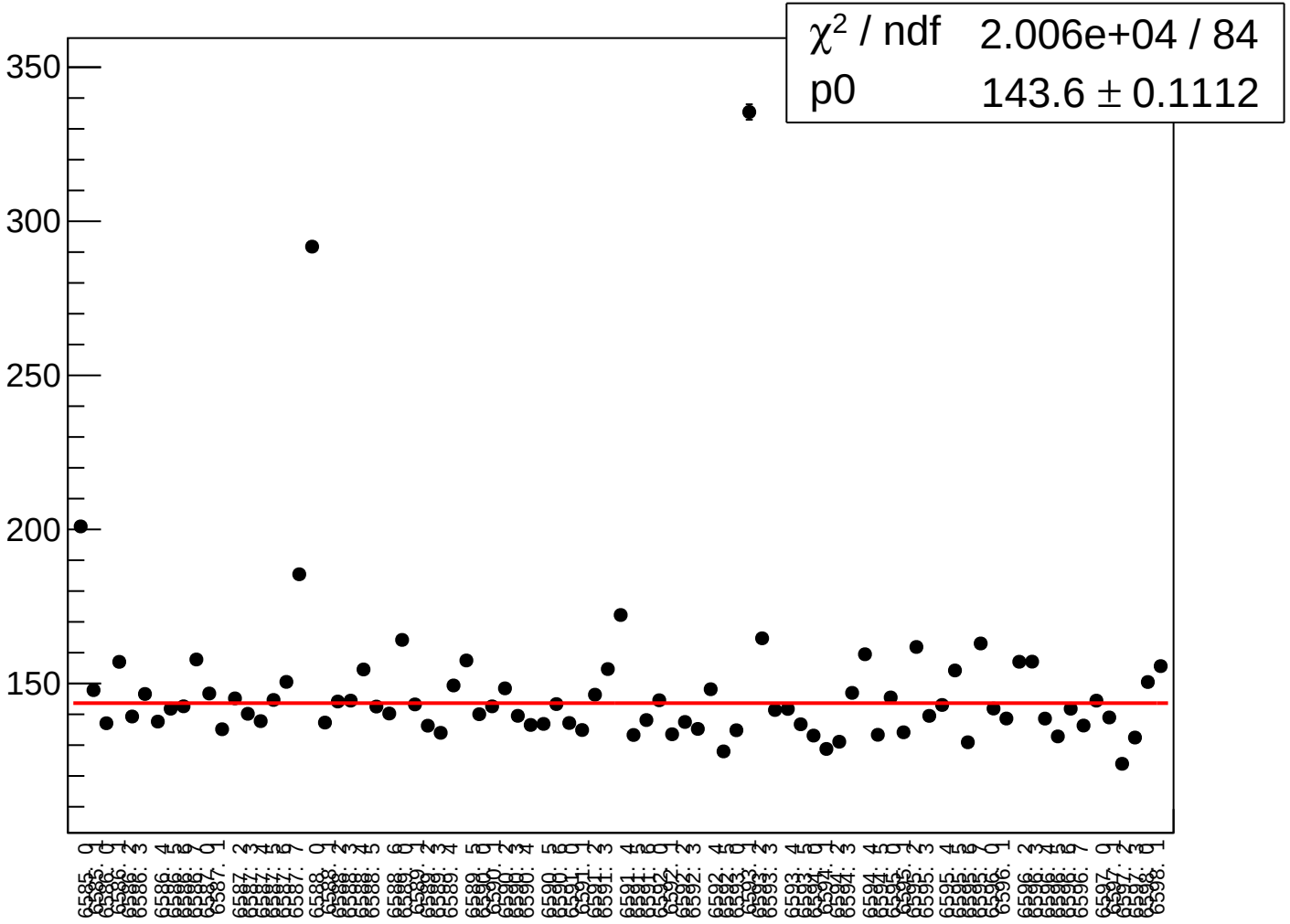

yield_bpm2i01WS_rms vs run
χ² / ndf 1.299e+04 / 84
p0 154.7 ± 0.1195
300
280
260
240
220
200
180
160
140

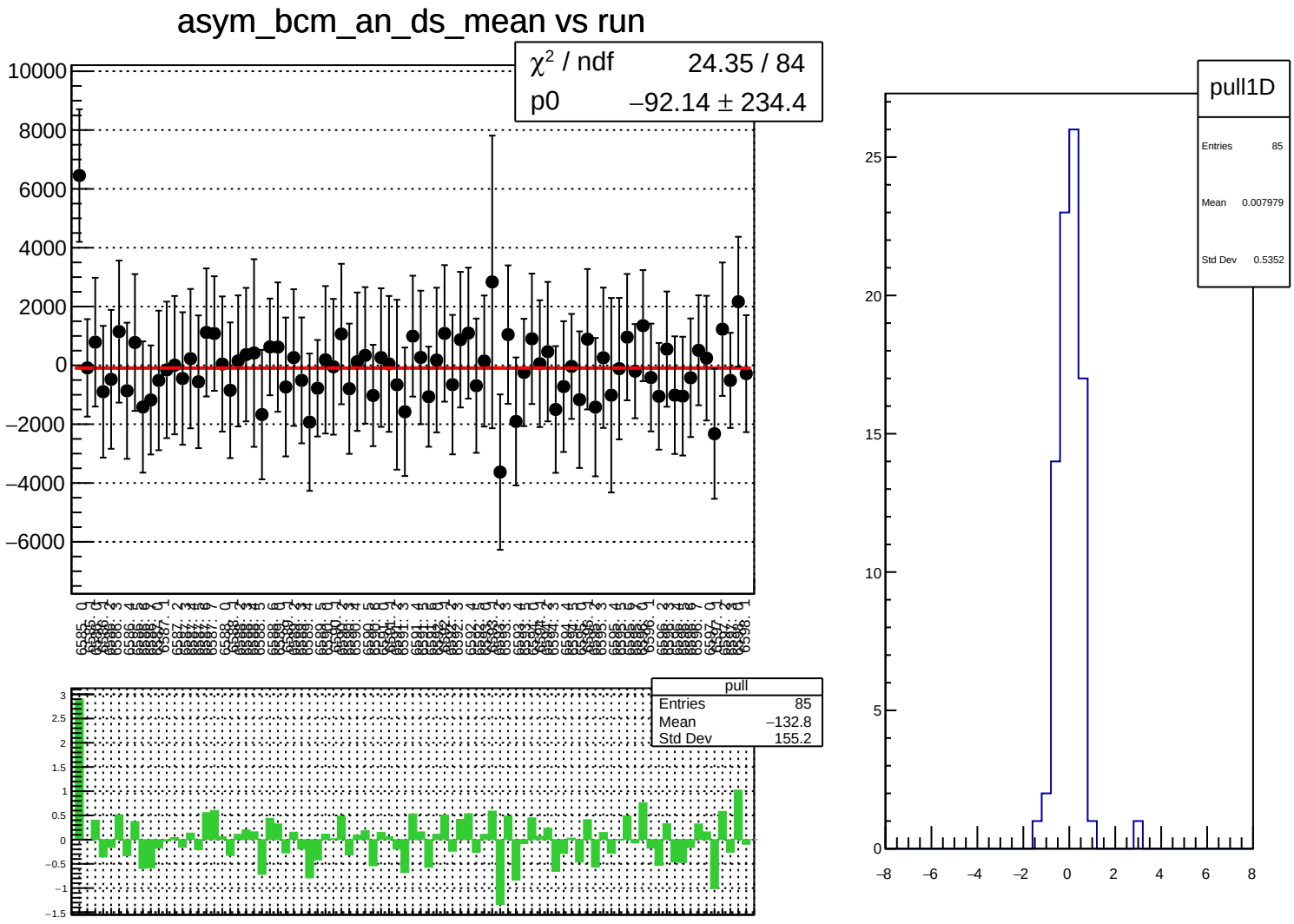

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.594e+05 / 84
p0 1.524e+05 ± 0.2008
152.8
152.7
152.6
152.5
152.4
152.3
pull
Entries 85
Mean −286.2
Std Dev 355.2
250
200
150
100
50
0
−50
−100
pull1D
Entries 85
Mean −1.773
Std Dev 4.944
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

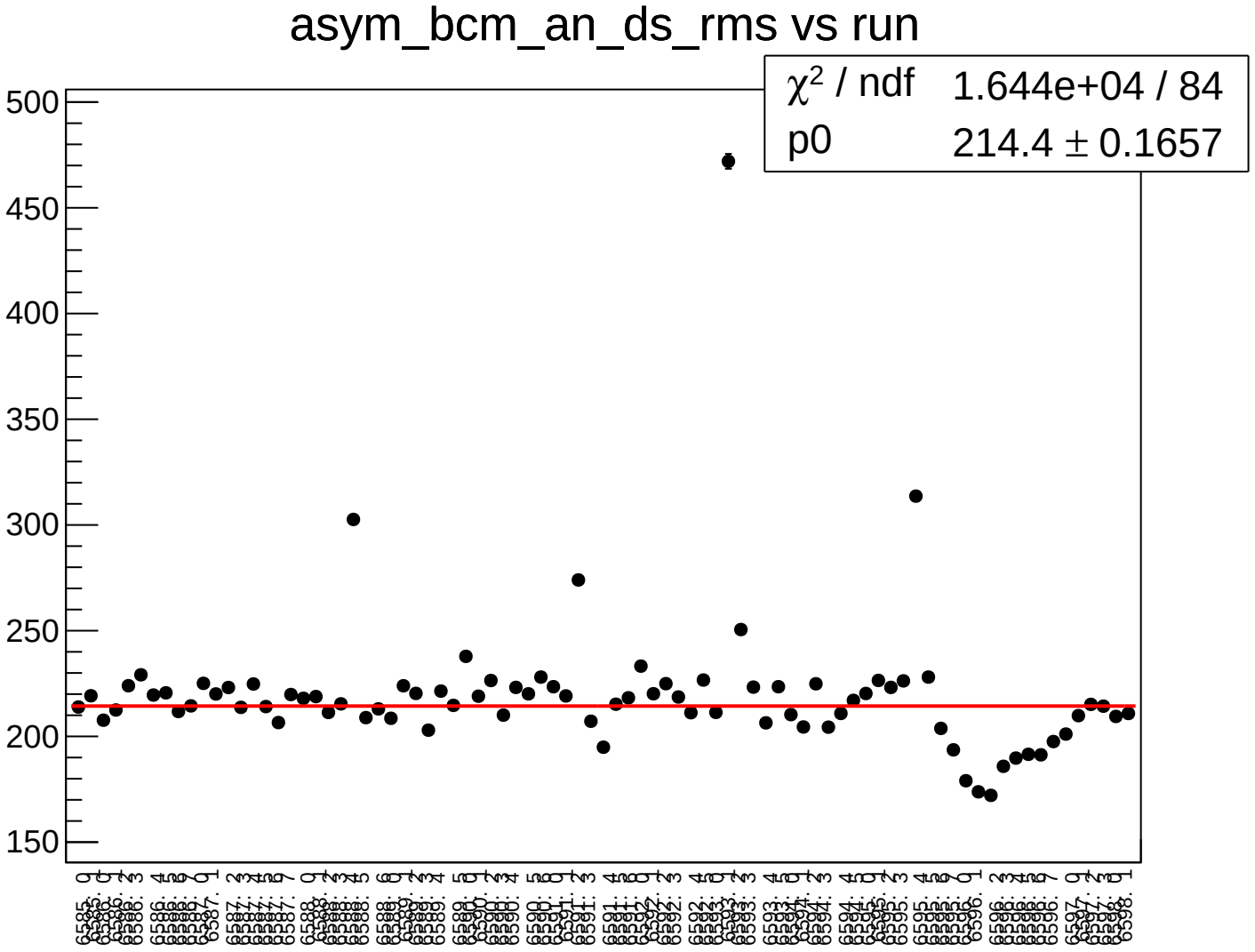

yield_bpm0i07WS_rms vs run
χ^2 / ndf 1.847e+04 / 84
p0 183.5 ± 0.142
350
300
250
200
150

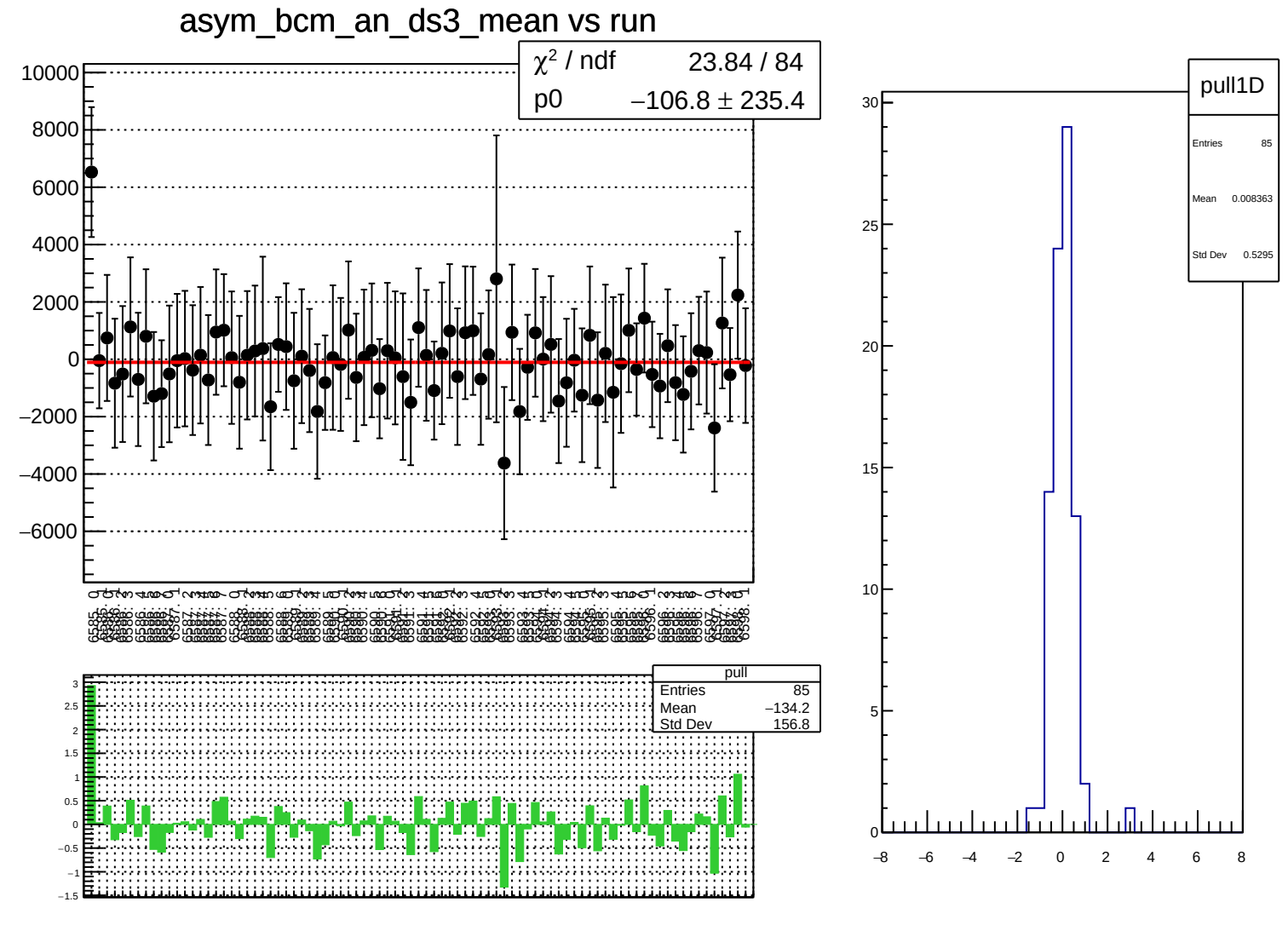

yield_bpm0l01WS_mean vs run
×10^3
121.65
121.6
121.55
121.5
121.45
121.4
121.35
121.3
χ² / ndf 2.262e+05 / 84
p0 1.215e+05 ± 0.1572
pull
Entries 85
Mean 950.7
Std Dev 907.5
100
50
0
−50
−100
pull1D
Entries 85
Mean 0.6885
Std Dev 4.779
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

yield_bpm0l01WS_rms vs run

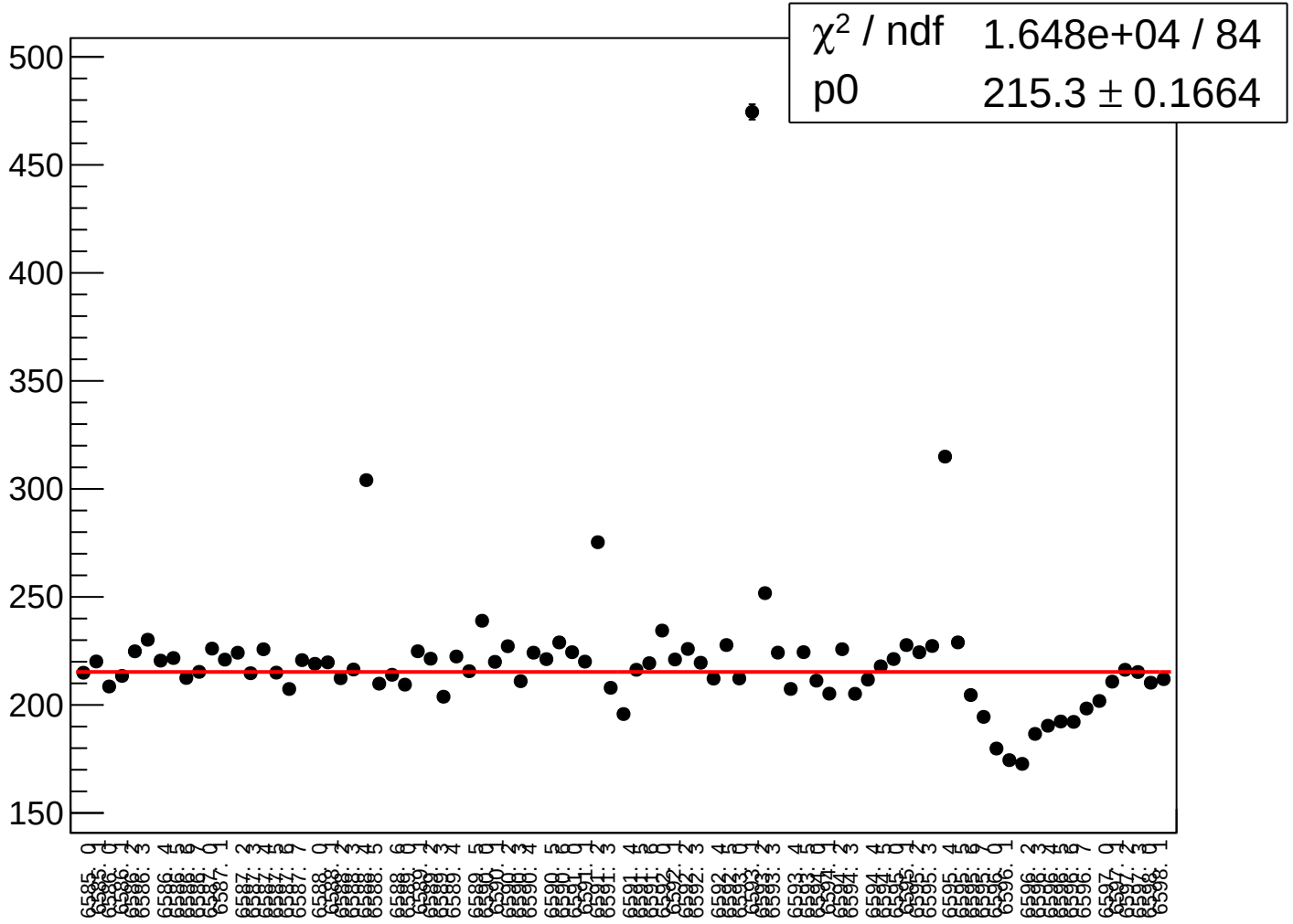


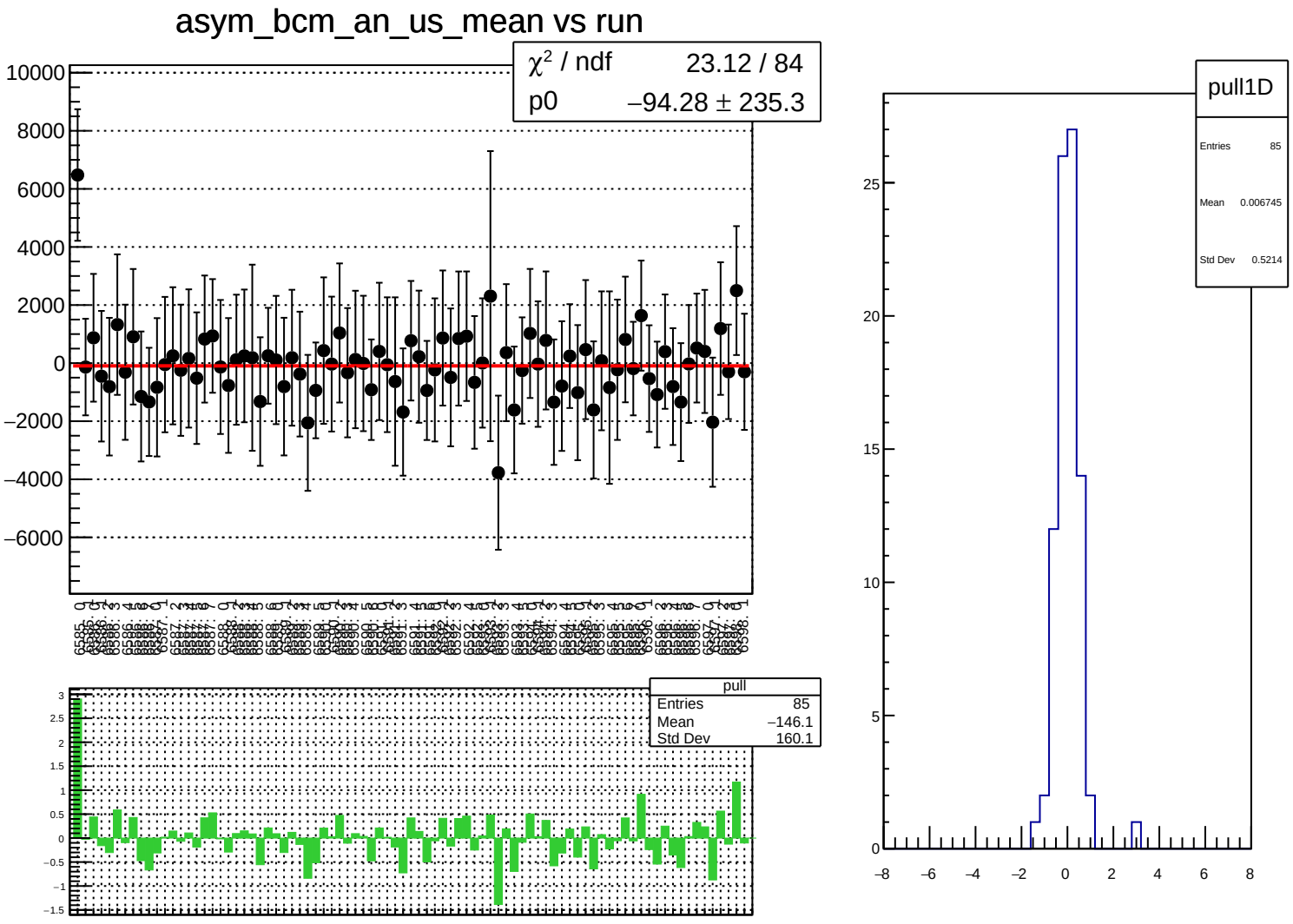

asym_bcm_an_ds_mean vs run
χ² / ndf 24.35 / 84
p0 −92.14 ± 234.4
pull
Entries 85
Mean −132.8
Std Dev 155.2
pull1D
Entries 85
Mean 0.007979
Std Dev 0.5352


asym_bcm_an_ds_rms vs run
χ^2 / ndf 1.644e+04 / 84
p0 214.4 ± 0.1657
500
450
400
350
300
250
200
150

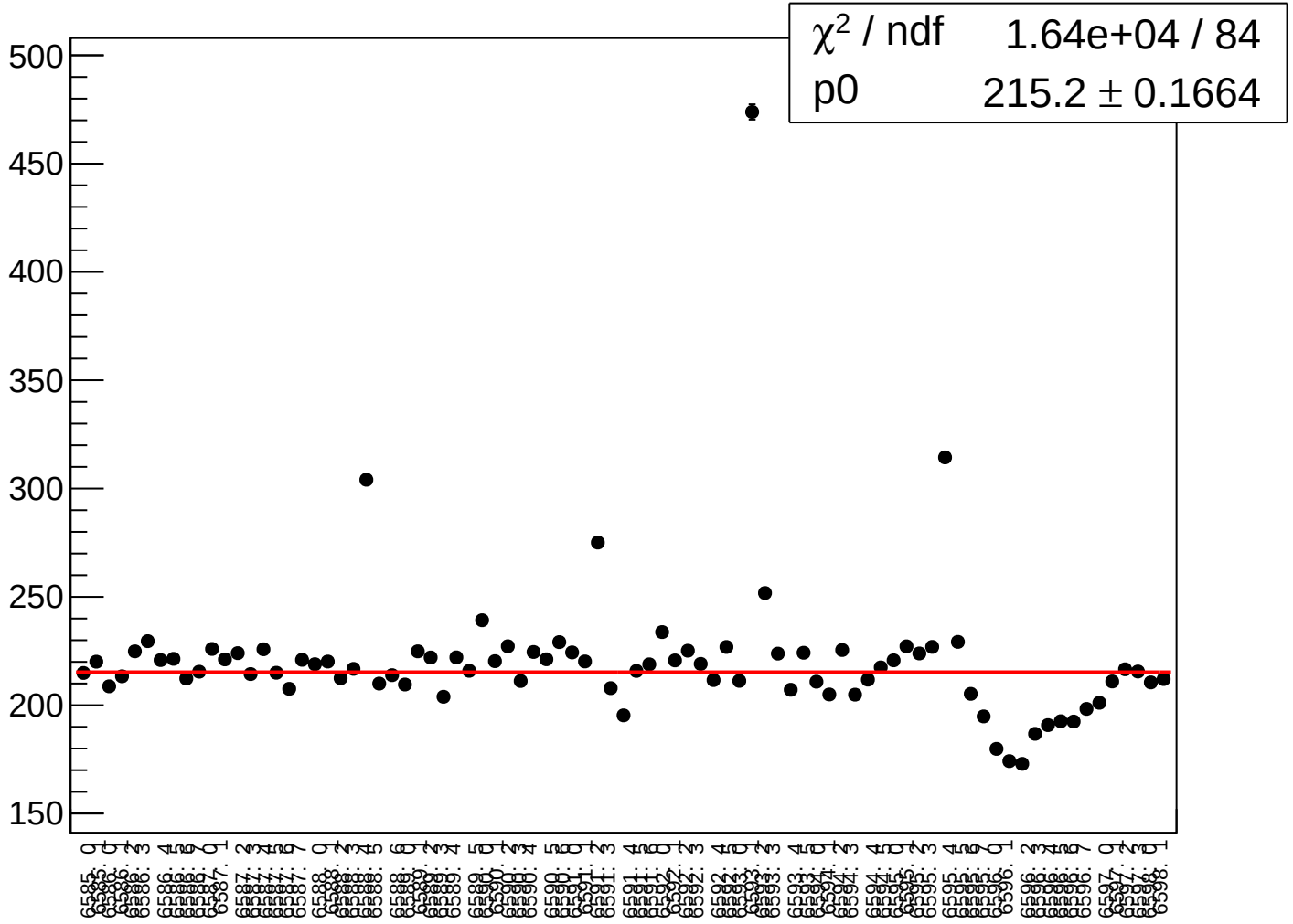

asym_bcm_an_ds3_mean vs run
χ² / ndf 23.84 / 84
p0 −106.8 ± 235.4
pull
Entries 85
Mean −134.2
Std Dev 156.8
pull1D
Entries 85
Mean 0.008363
Std Dev 0.5295

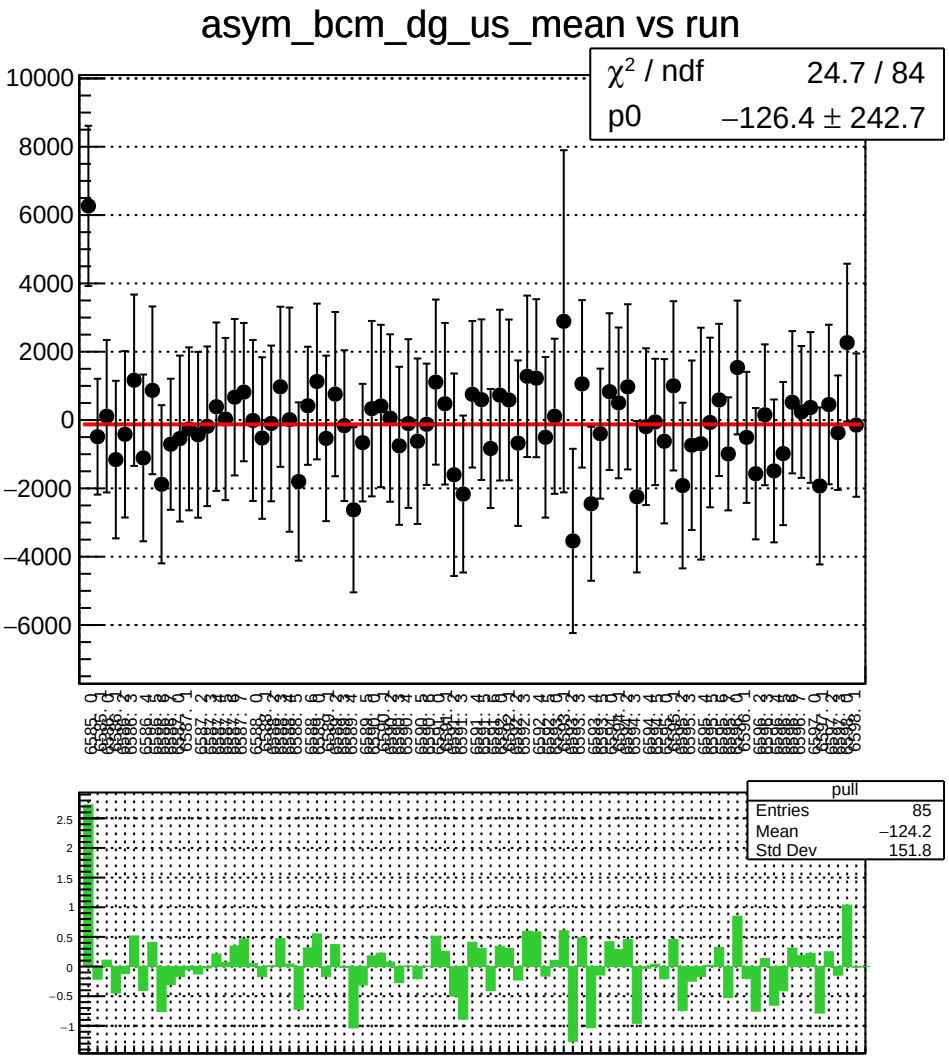
asym_bcm_an_ds3_rms vs run

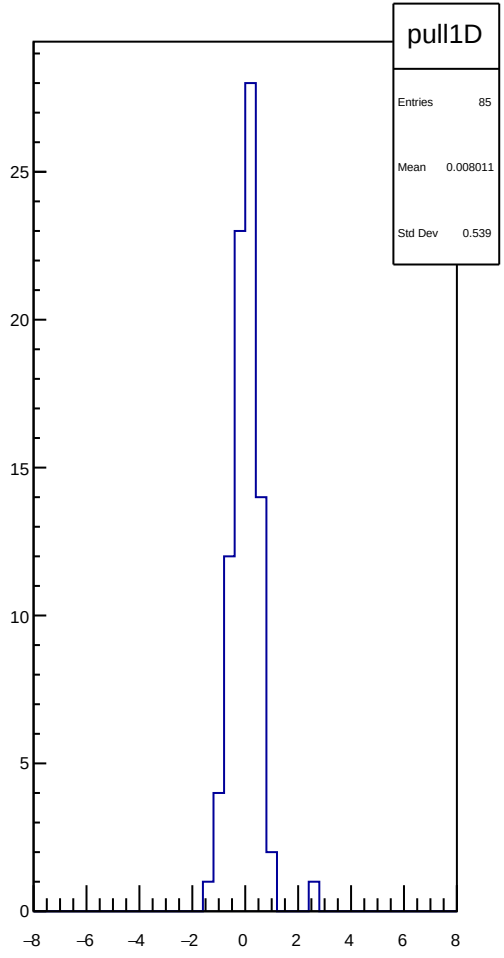



asym_bcm_an_us_mean vs run
χ² / ndf 23.12 / 84
p0 −94.28 ± 235.3
pull
Entries 85
Mean −146.1
Std Dev 160.1
pull1D
Entries 85
Mean 0.006745
Std Dev 0.5214

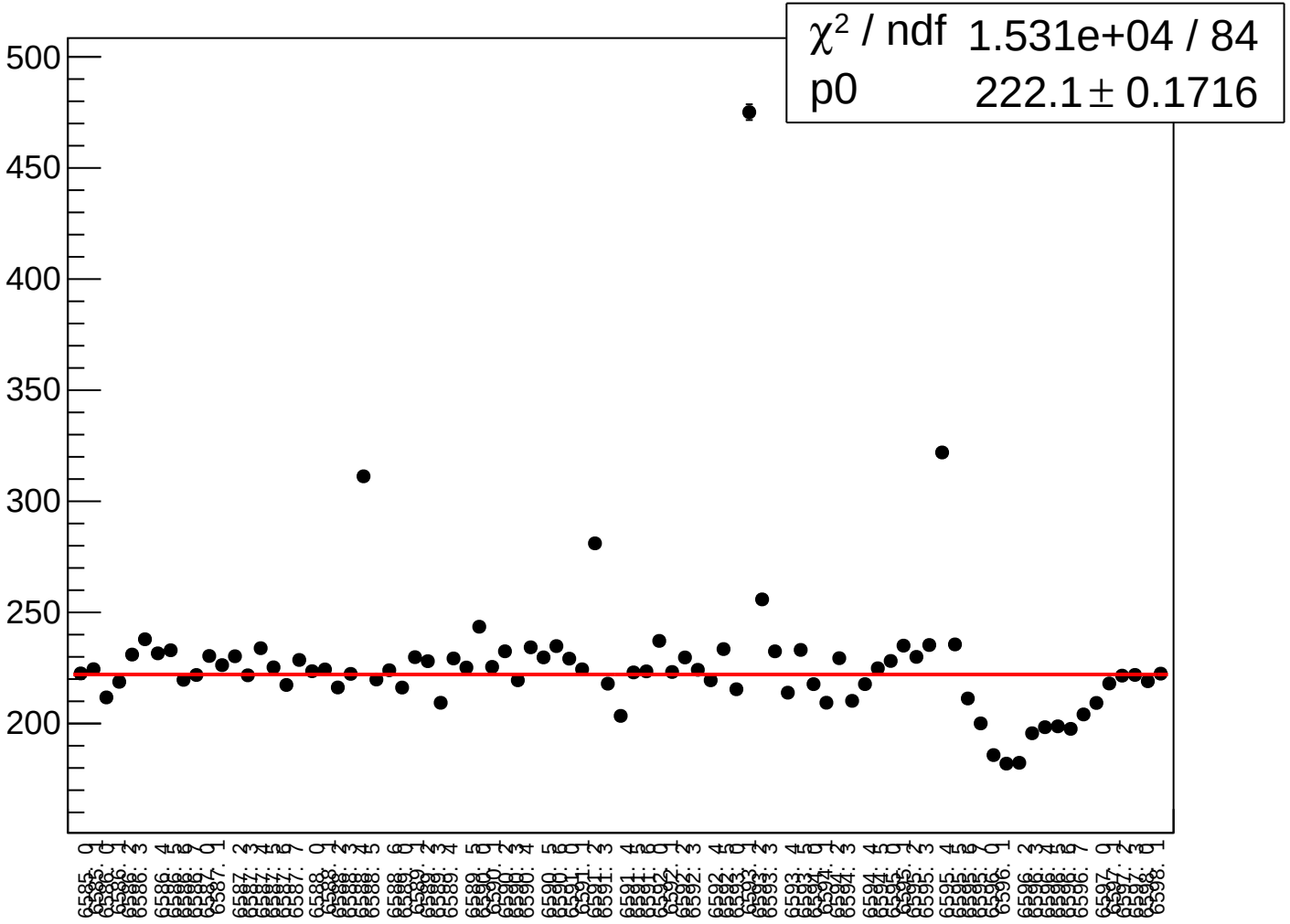
asym_bcm_an_us_rms vs run

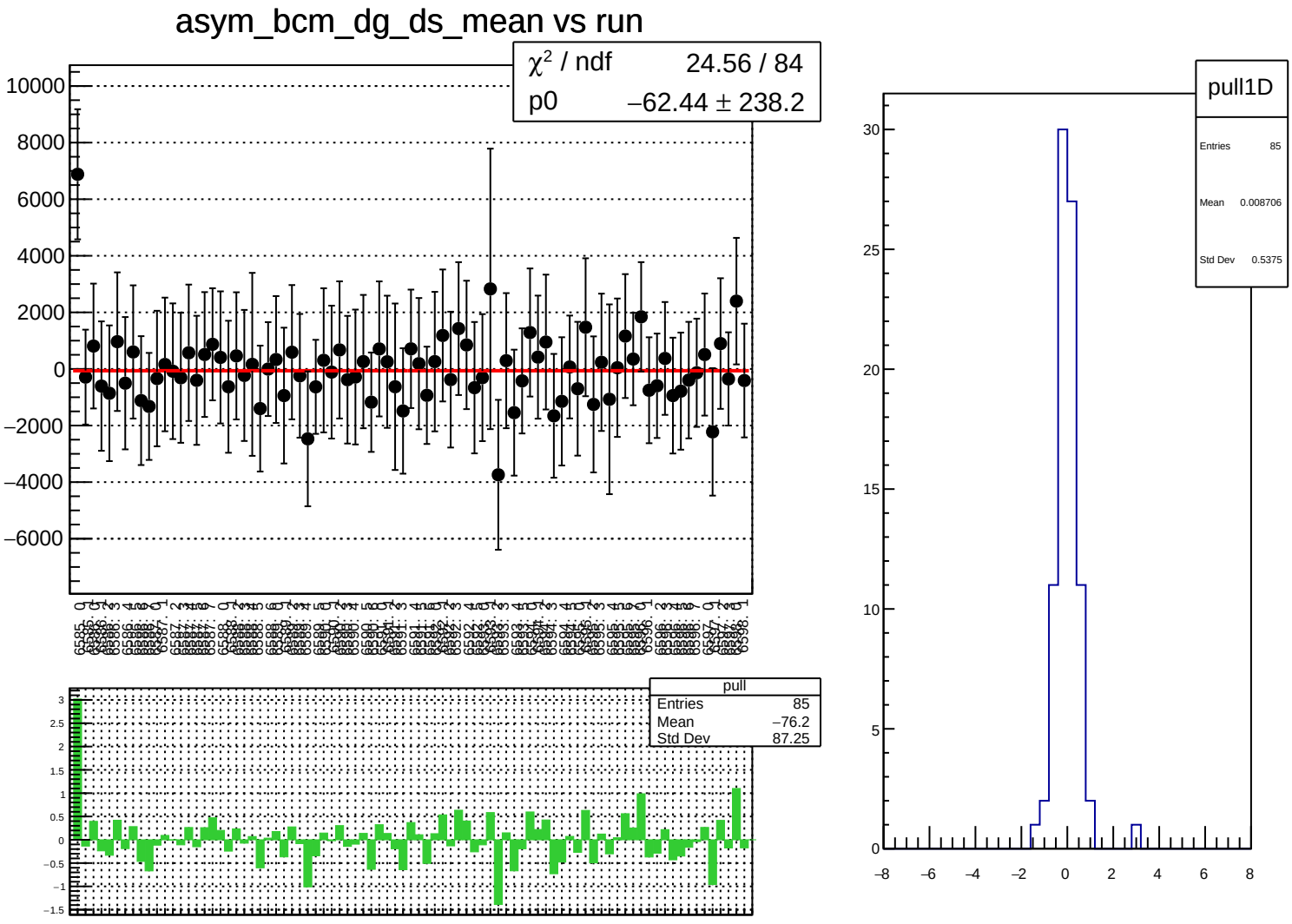



asym_bcm_dg_us_mean vs run
χ² / ndf 24.7 / 84
p0 −126.4 ± 242.7
pull
Entries 85
Mean −124.2
Std Dev 151.8

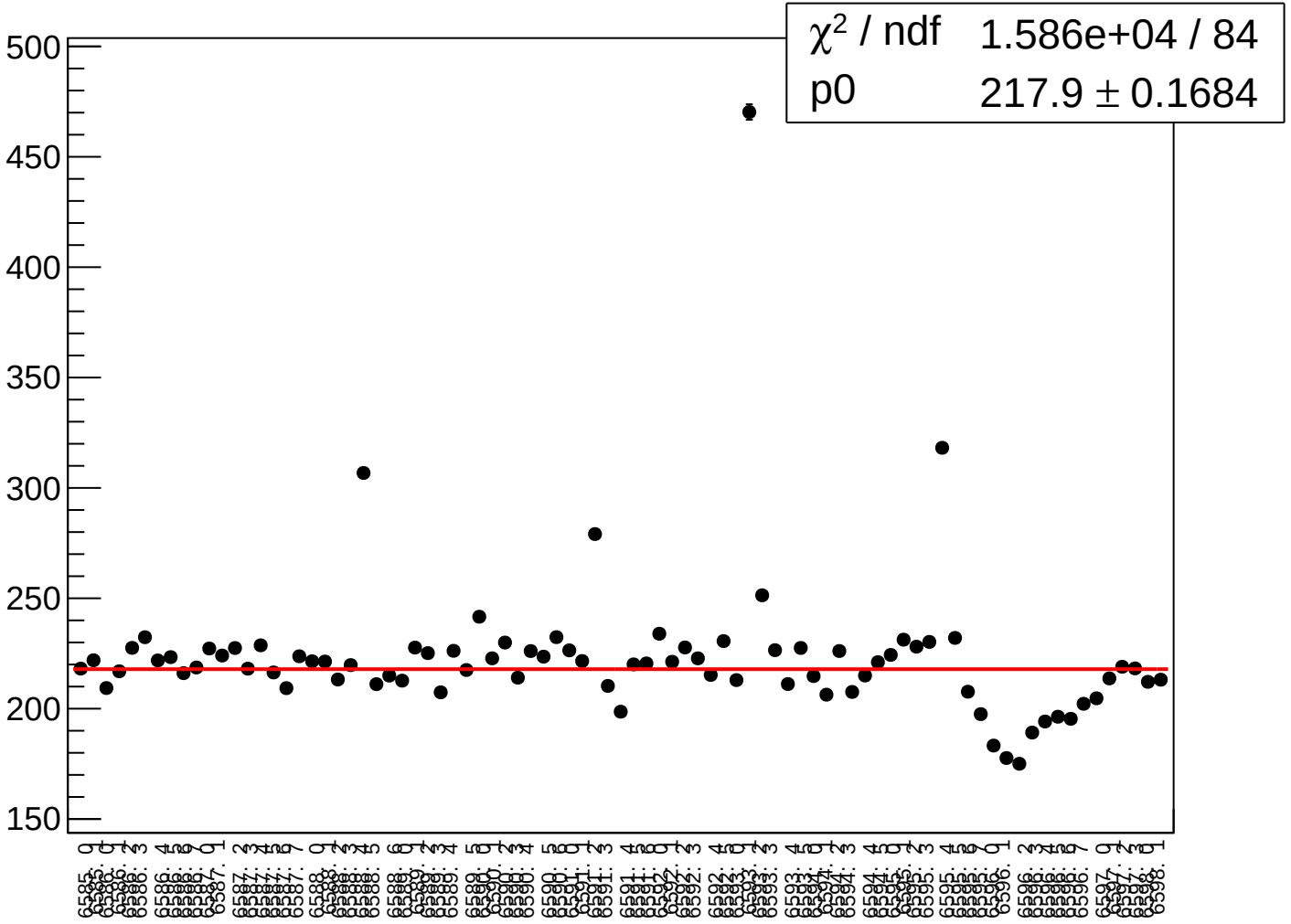

pull1D
Entries 85
Mean 0.008011
Std Dev 0.539

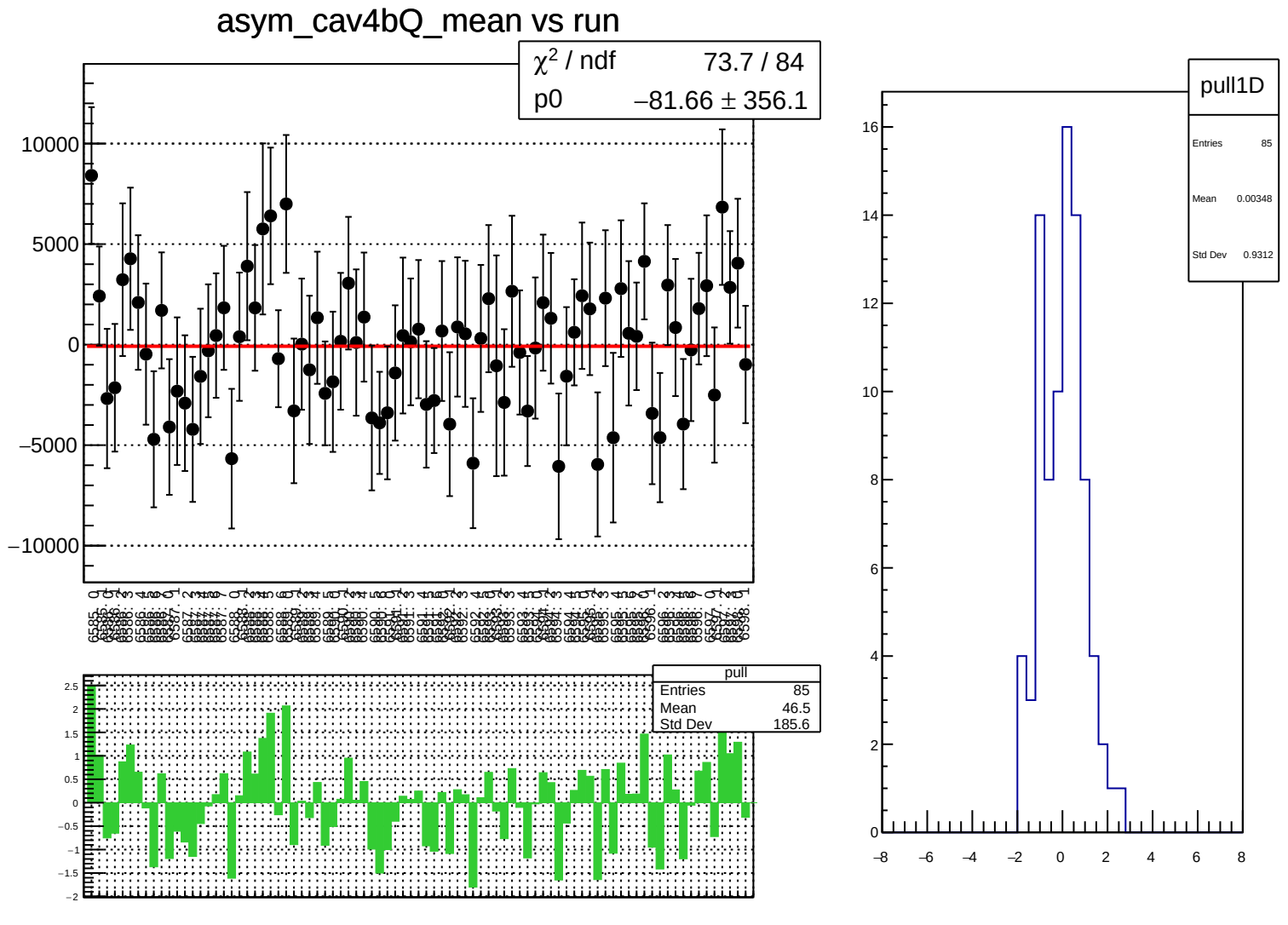
asym_bcm_dg_us_rms vs run



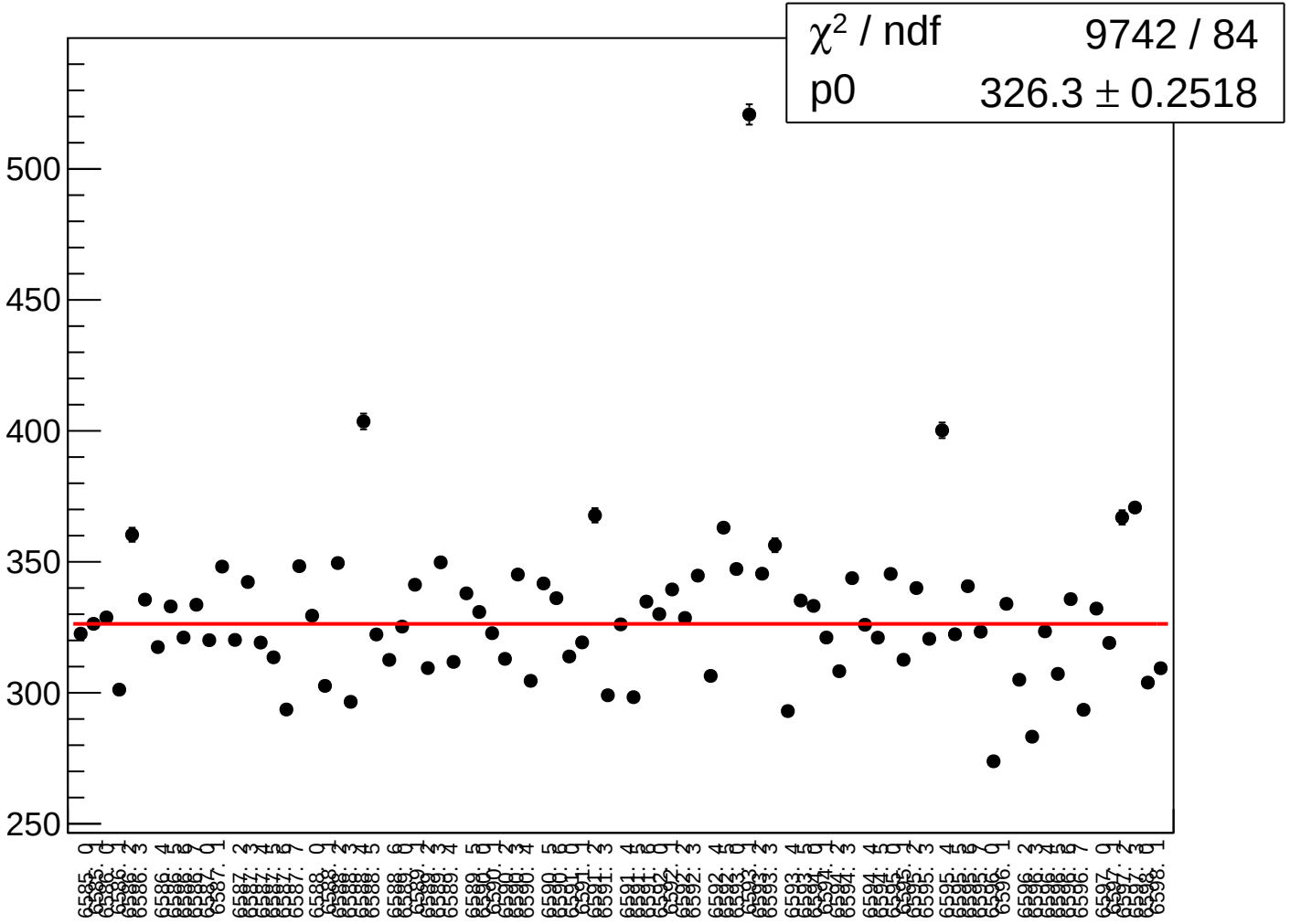

asym_bcm_dg_ds_mean vs run
χ² / ndf 24.56 / 84
p0 −62.44 ± 238.2
pull
Entries 85
Mean −76.2
Std Dev 87.25
pull1D
Entries 85
Mean 0.008706
Std Dev 0.5375

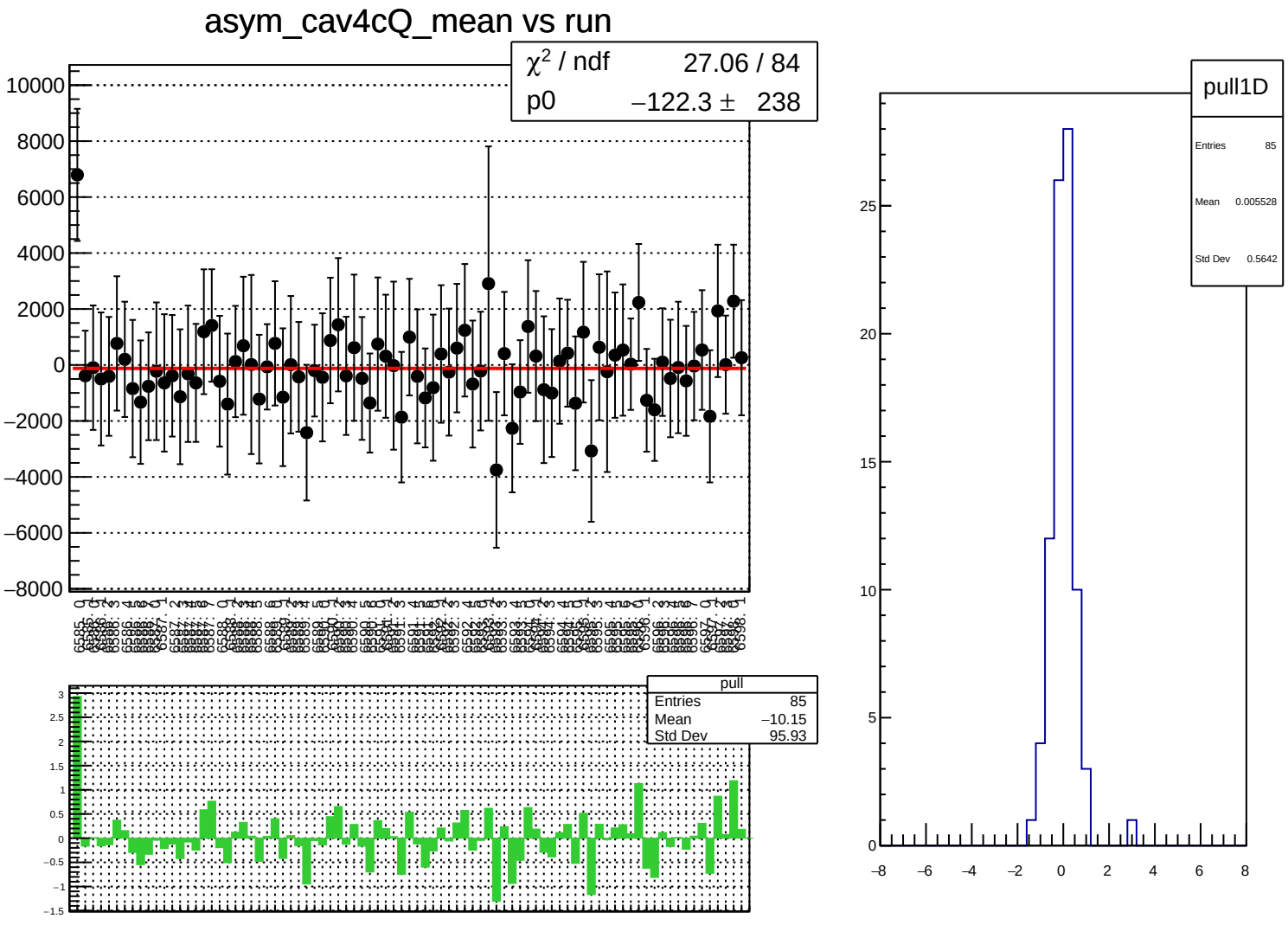
asym_bcm_dg_ds_rms vs run

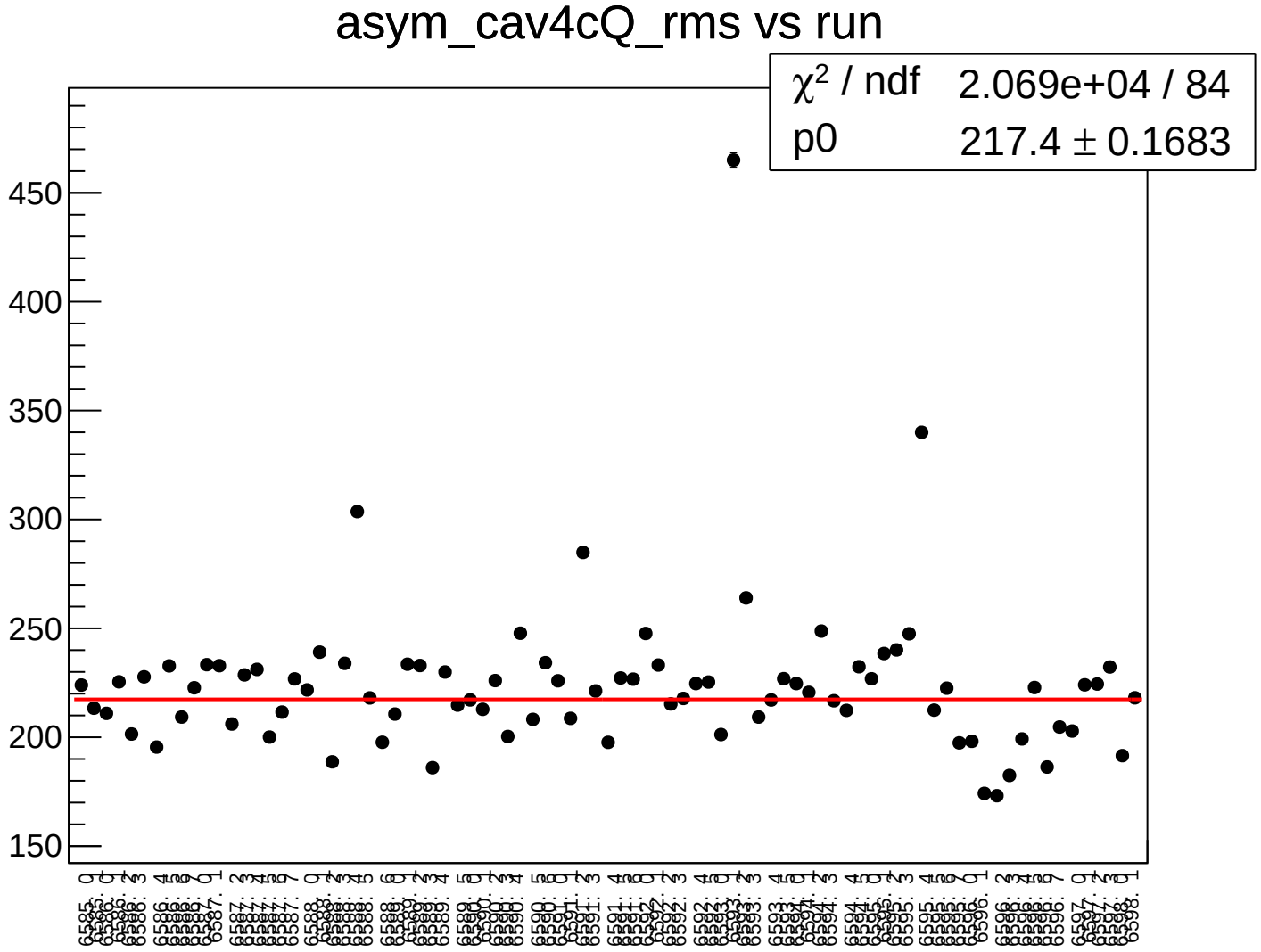


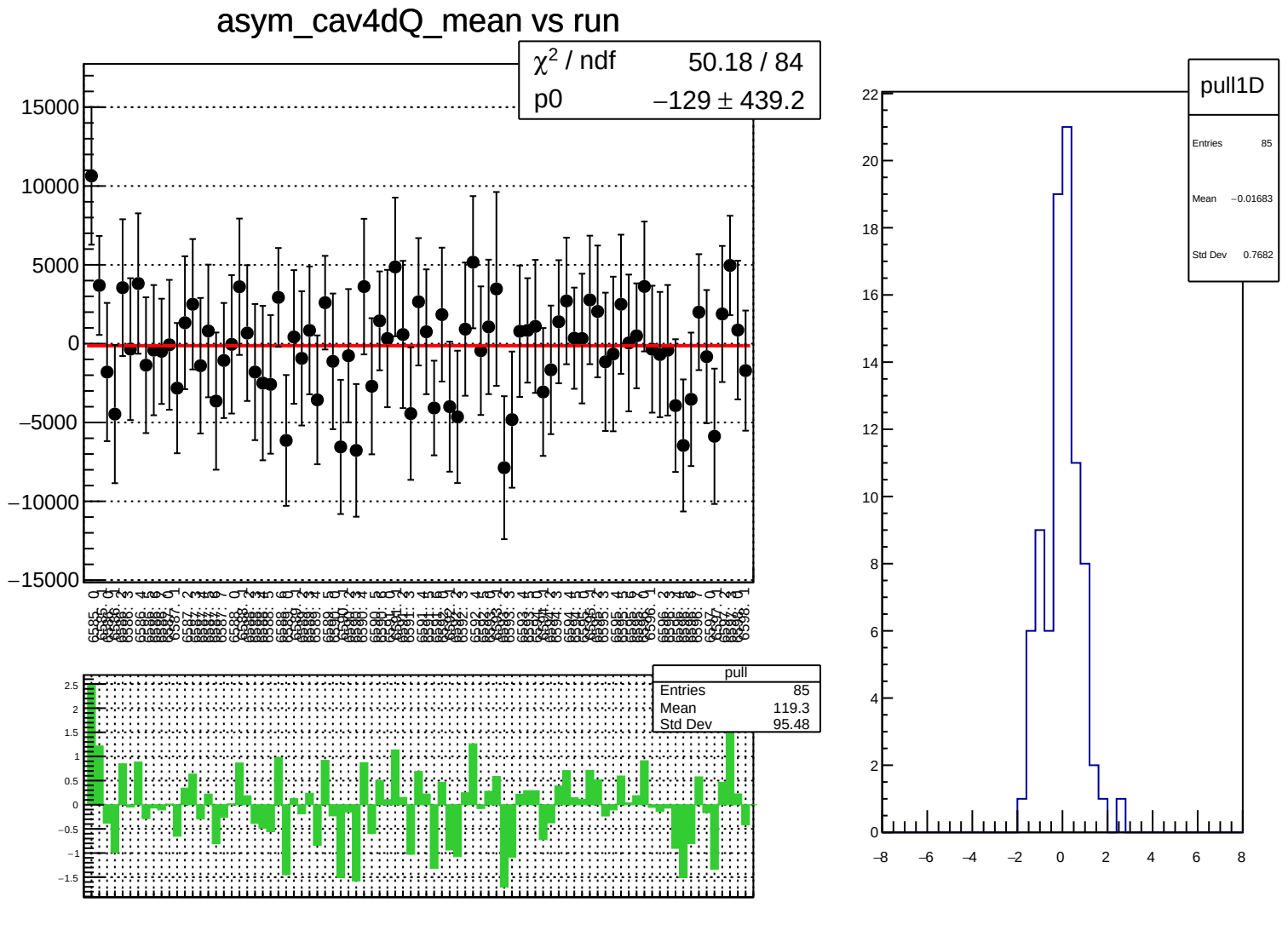

asym_cav4bQ_mean vs run
χ² / ndf 73.7 / 84
p0 −81.66 ± 356.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 46.5
Std Dev 185.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.00348
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

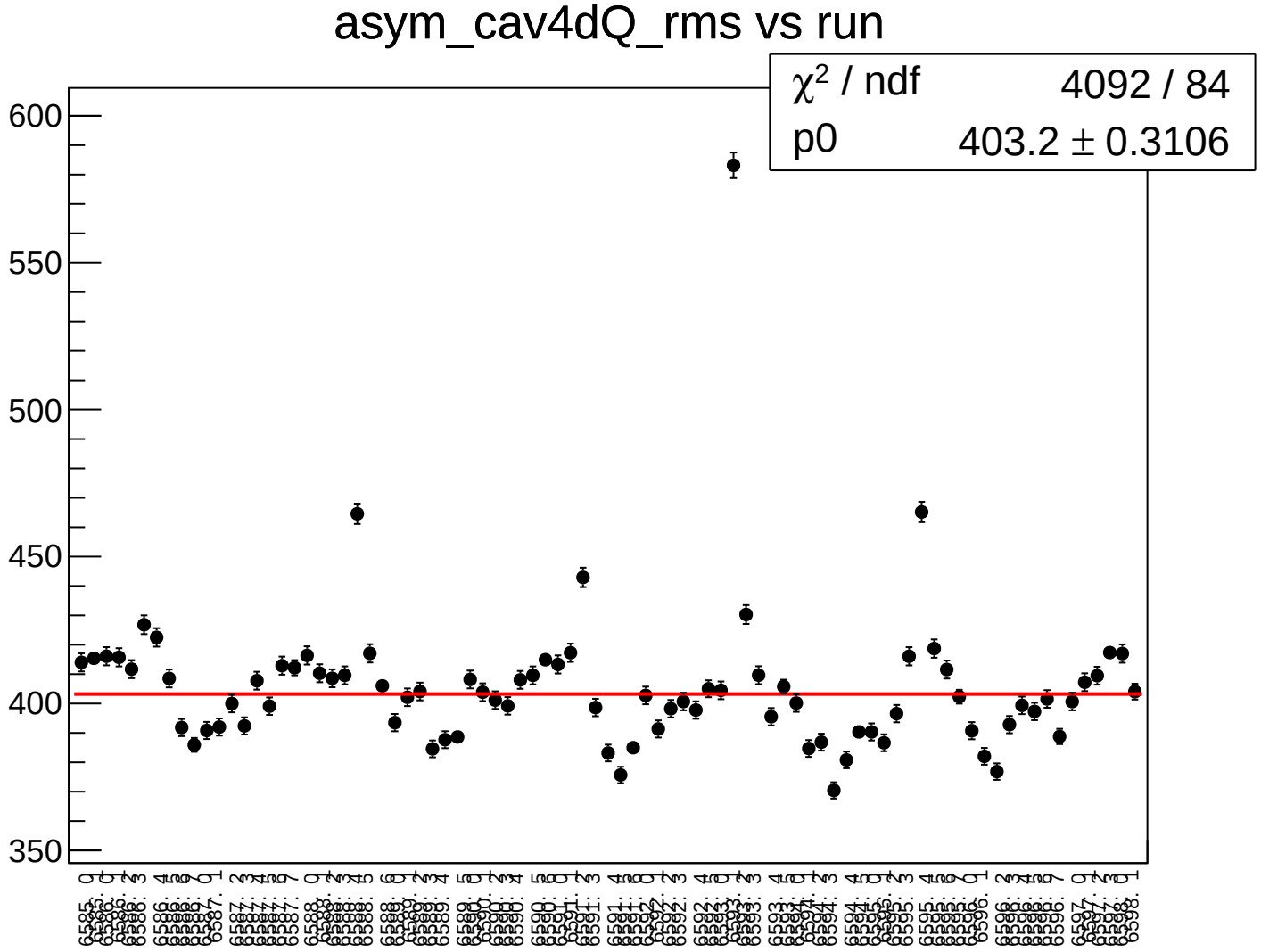
asym_cav4bQ_rms vs run

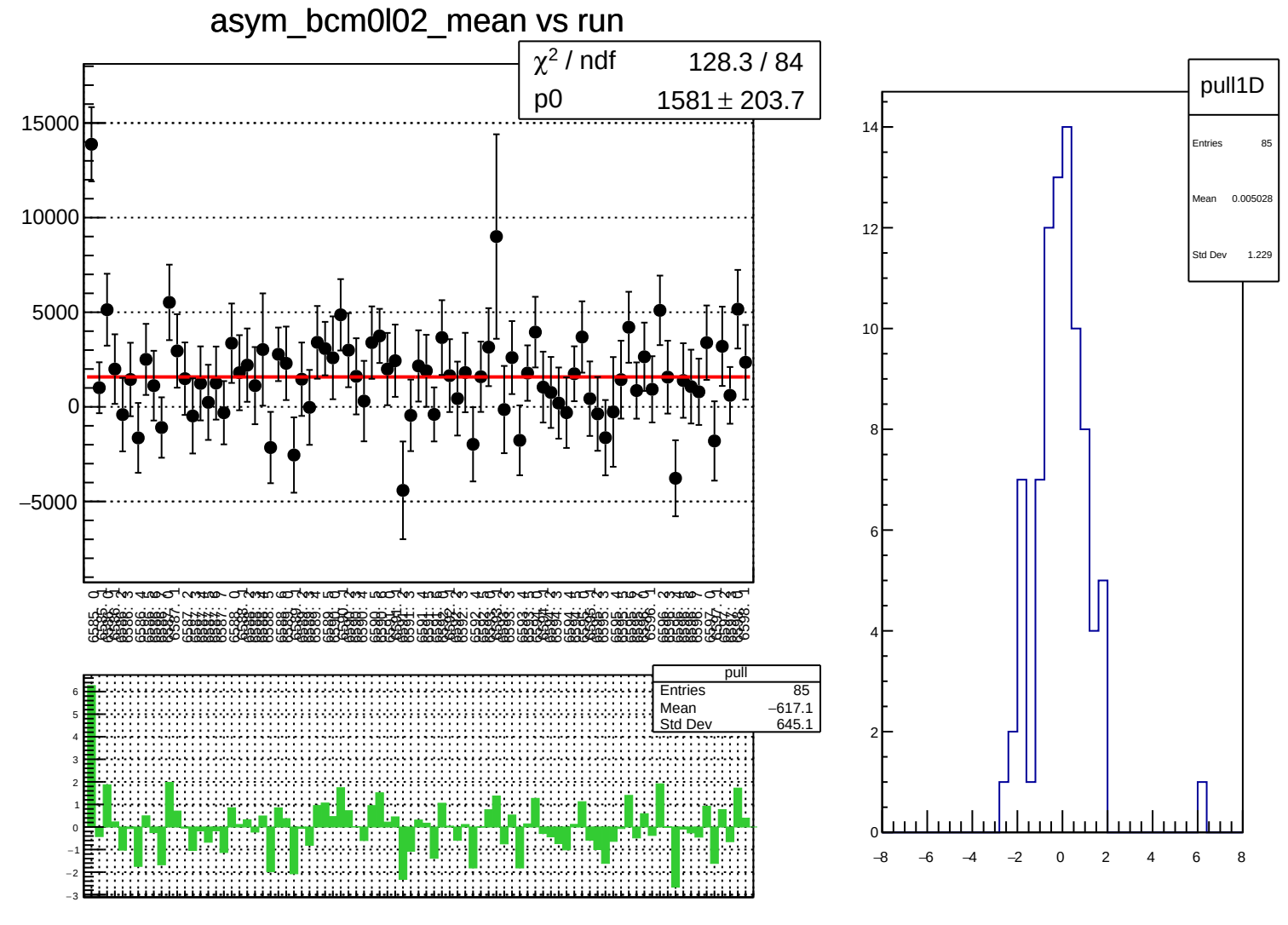



asym_cav4cQ_mean vs run
χ² / ndf 27.06 / 84
p0 −122.3 ± 238
pull
Entries 85
Mean −10.15
Std Dev 95.93
pull1D
Entries 85
Mean 0.005528
Std Dev 0.5642

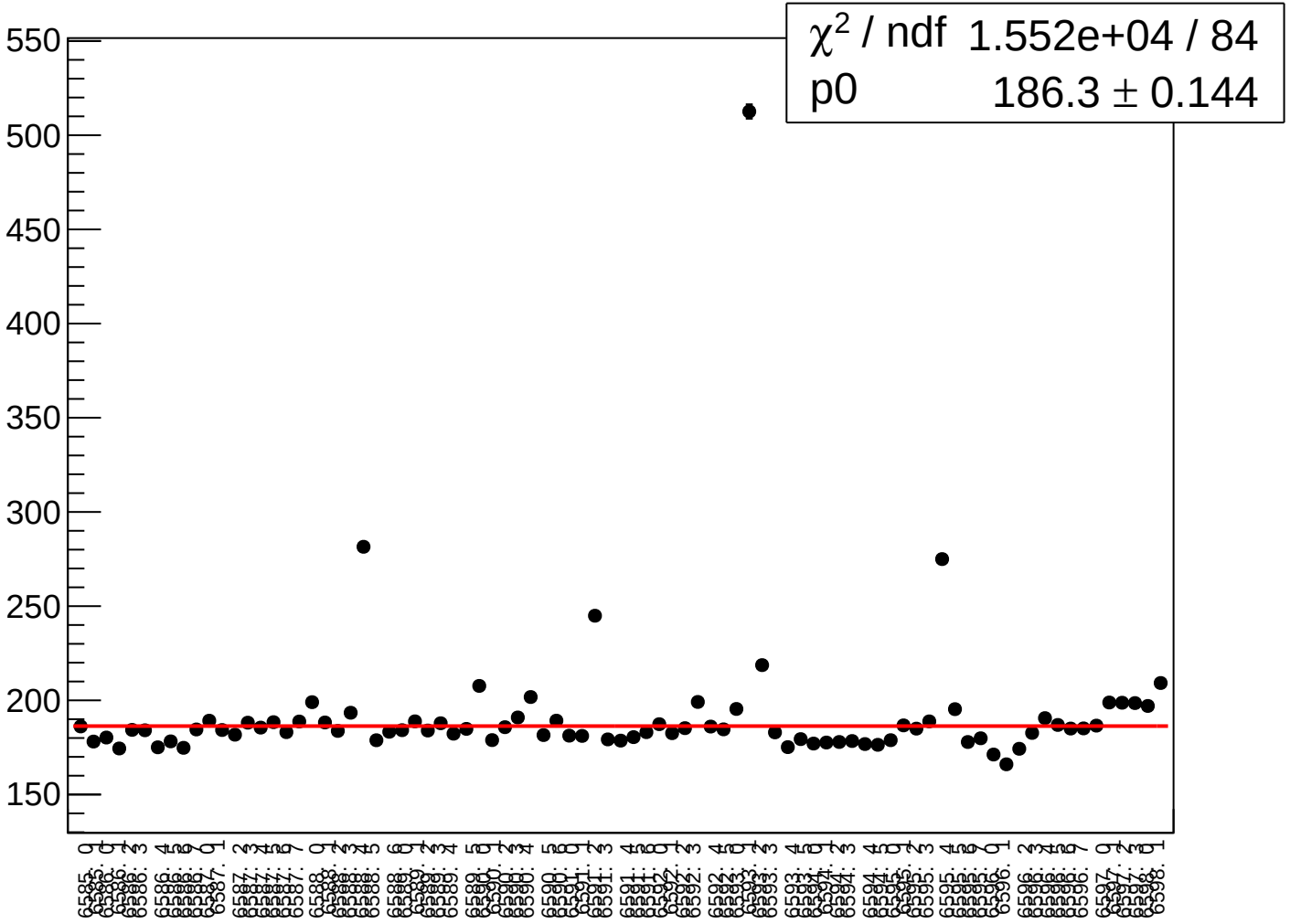

asym_cav4cQ_rms vs run
χ^2 / ndf 2.069e+04 / 84
p0 217.4 ± 0.1683
450
400
350
300
250
200
150

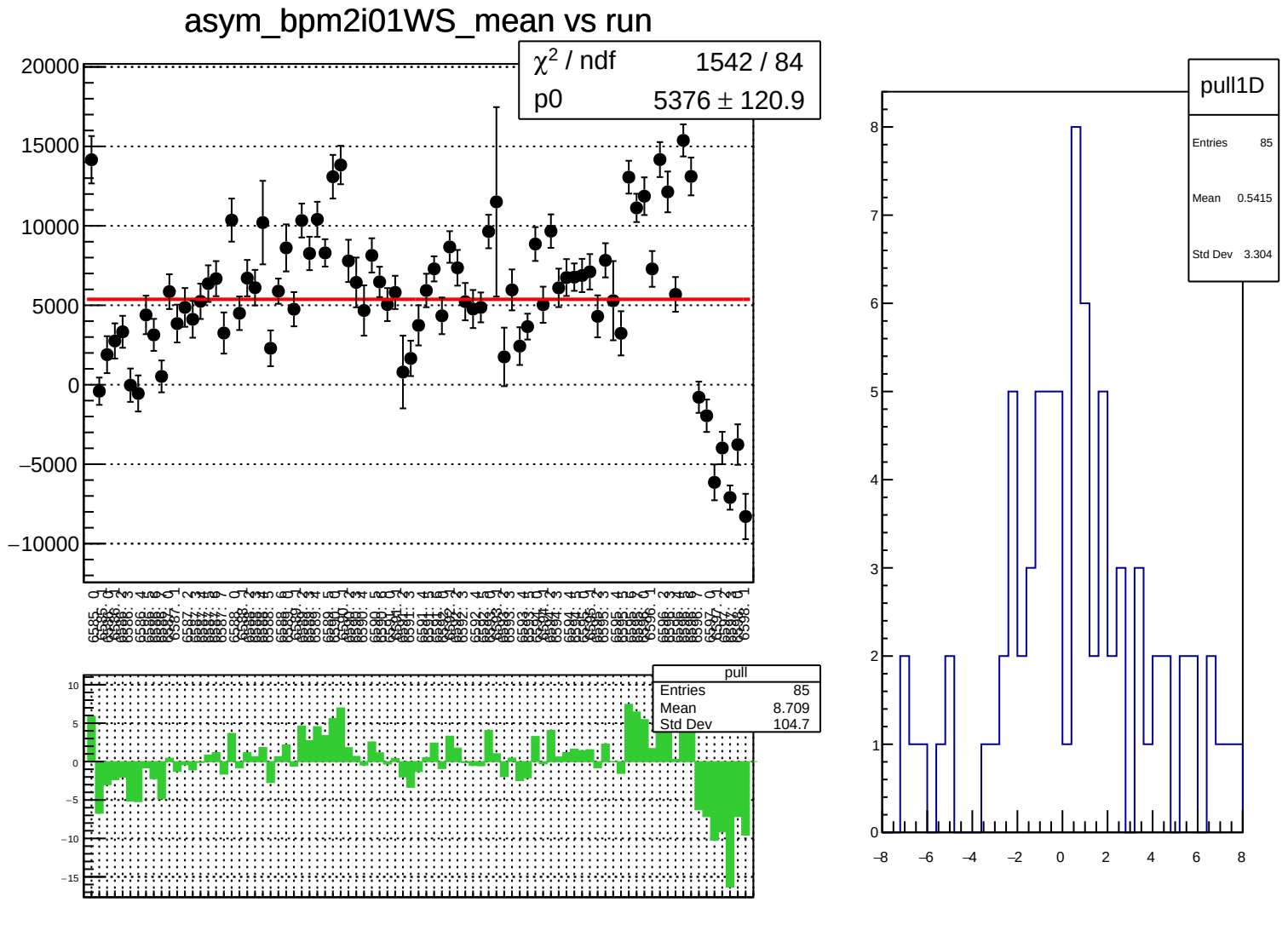

asym_cav4dQ_mean vs run
χ^2 / ndf 50.18 / 84
p0 −129 ± 439.2
pull
Entries 85
Mean 119.3
Std Dev 95.48
pull1D
Entries 85
Mean −0.01683
Std Dev 0.7682


asym_cav4dQ_rms vs run
χ^2 / ndf 4092 / 84
p0 403.2 ± 0.3106
600
550
500
450
400
350

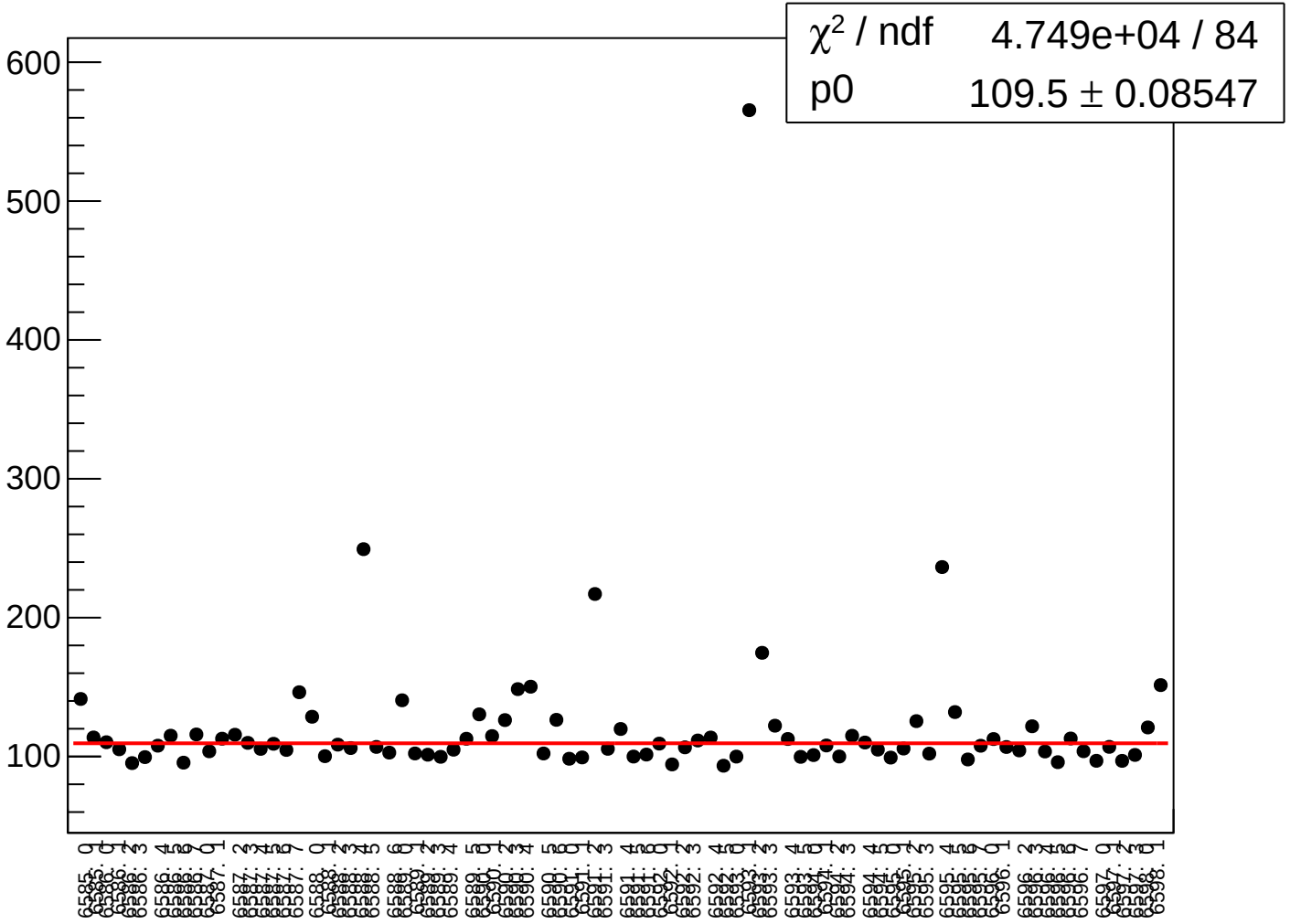

asym_bcm0l02_mean vs run
χ^2 / ndf 128.3 / 84
p0 1581 ± 203.7
15000
10000
5000
0
−5000
pull
Entries 85
Mean −617.1
Std Dev 645.1
pull1D
Entries 85
Mean 0.005028
Std Dev 1.229

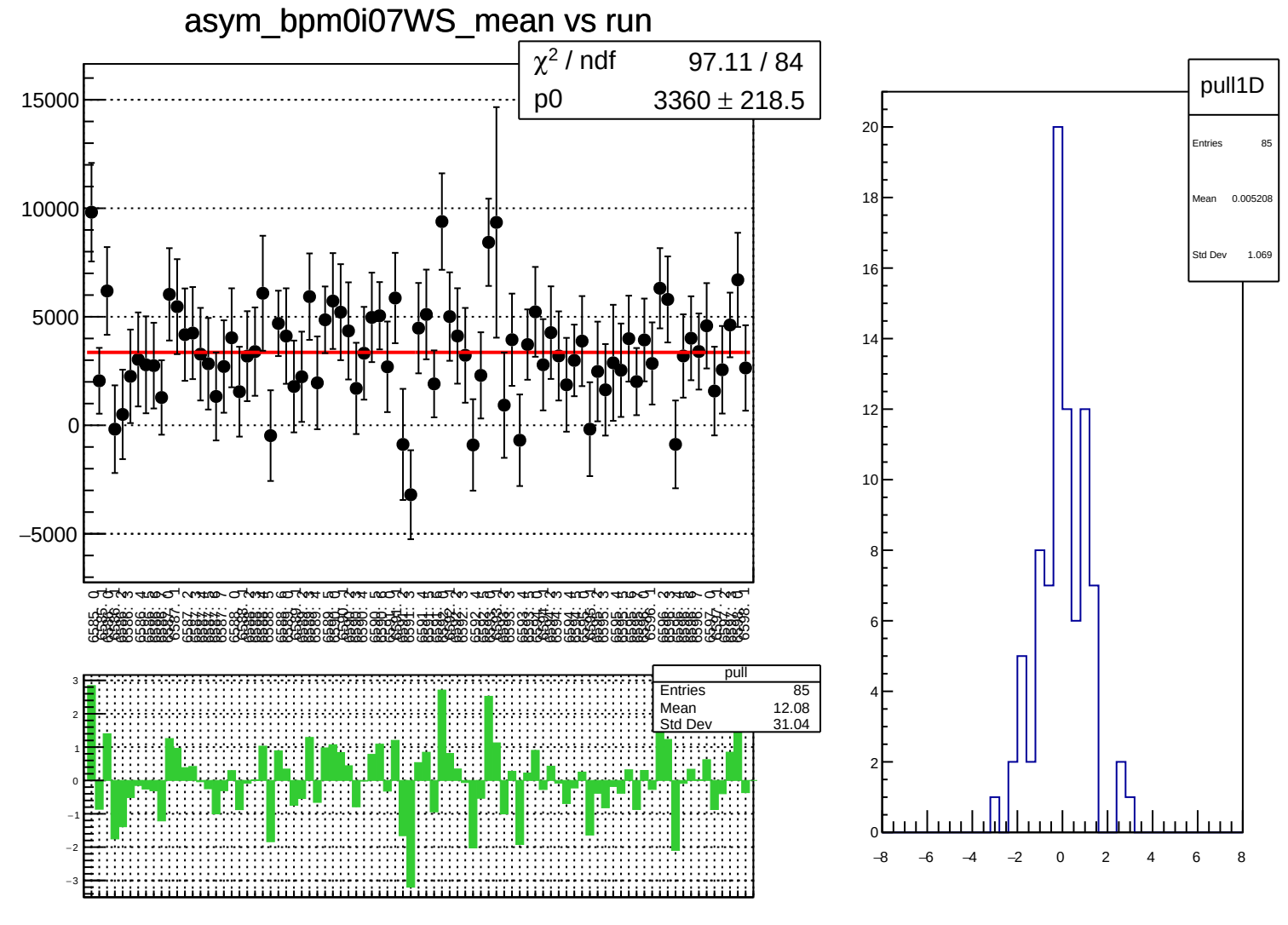
asym_bcm0l02_rms vs run



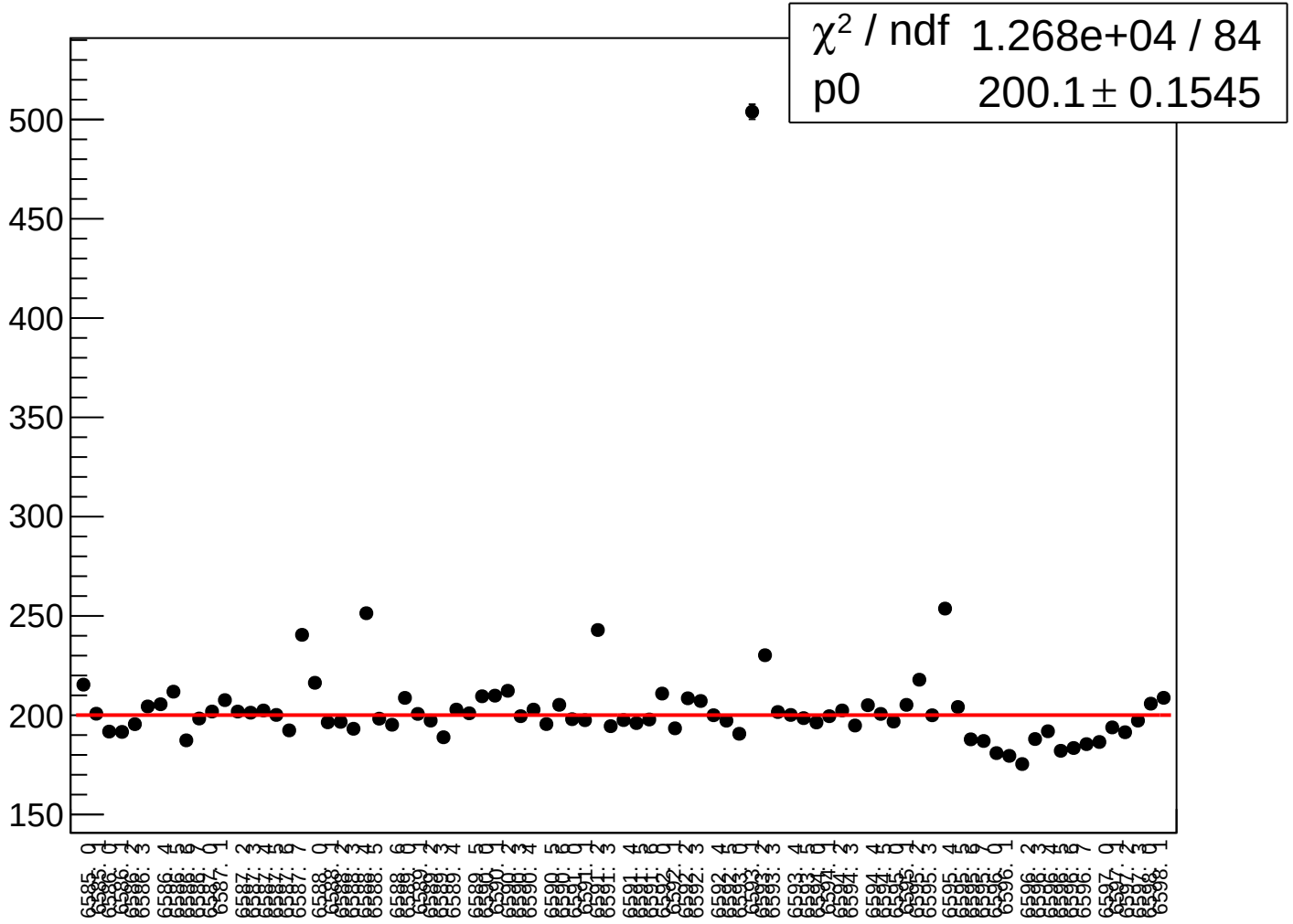

asym_bpm2i01WS_mean vs run
χ² / ndf 1542 / 84
p0 5376 ± 120.9
pull
Entries 85
Mean 8.709
Std Dev 104.7
pull1D
Entries 85
Mean 0.5415
Std Dev 3.304

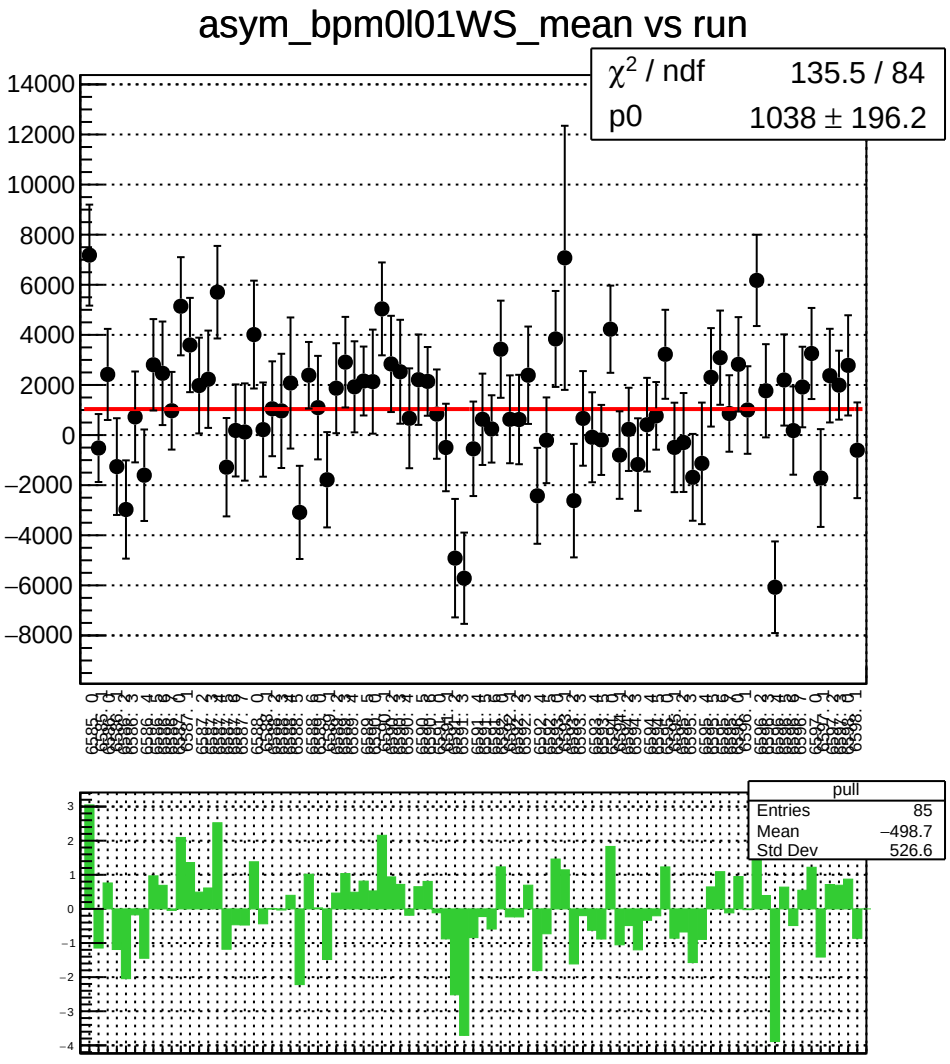
asym_bpm2i01WS_rms vs run

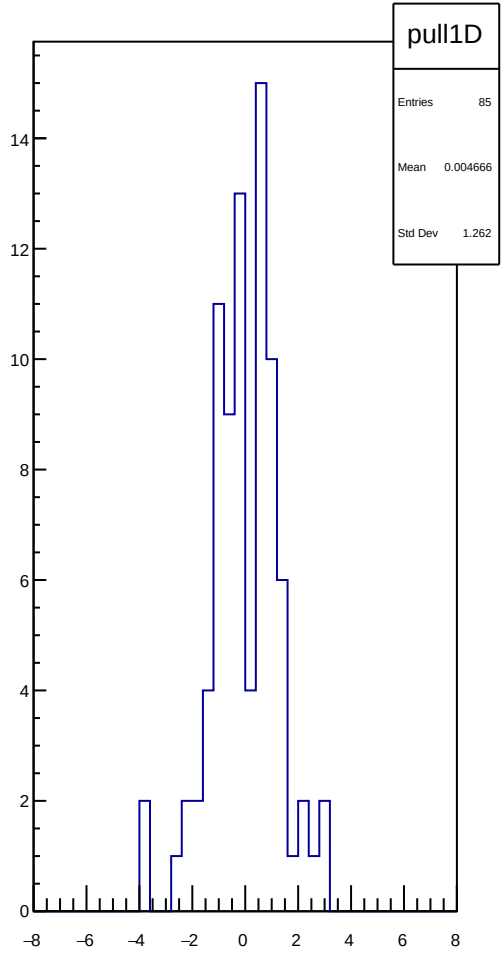



asym_bpm0i07WS_mean vs run
χ² / ndf 97.11 / 84
p0 3360 ± 218.5
15000
10000
5000
0
−5000
pull
Entries 85
Mean 12.08
Std Dev 31.04
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.005208
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

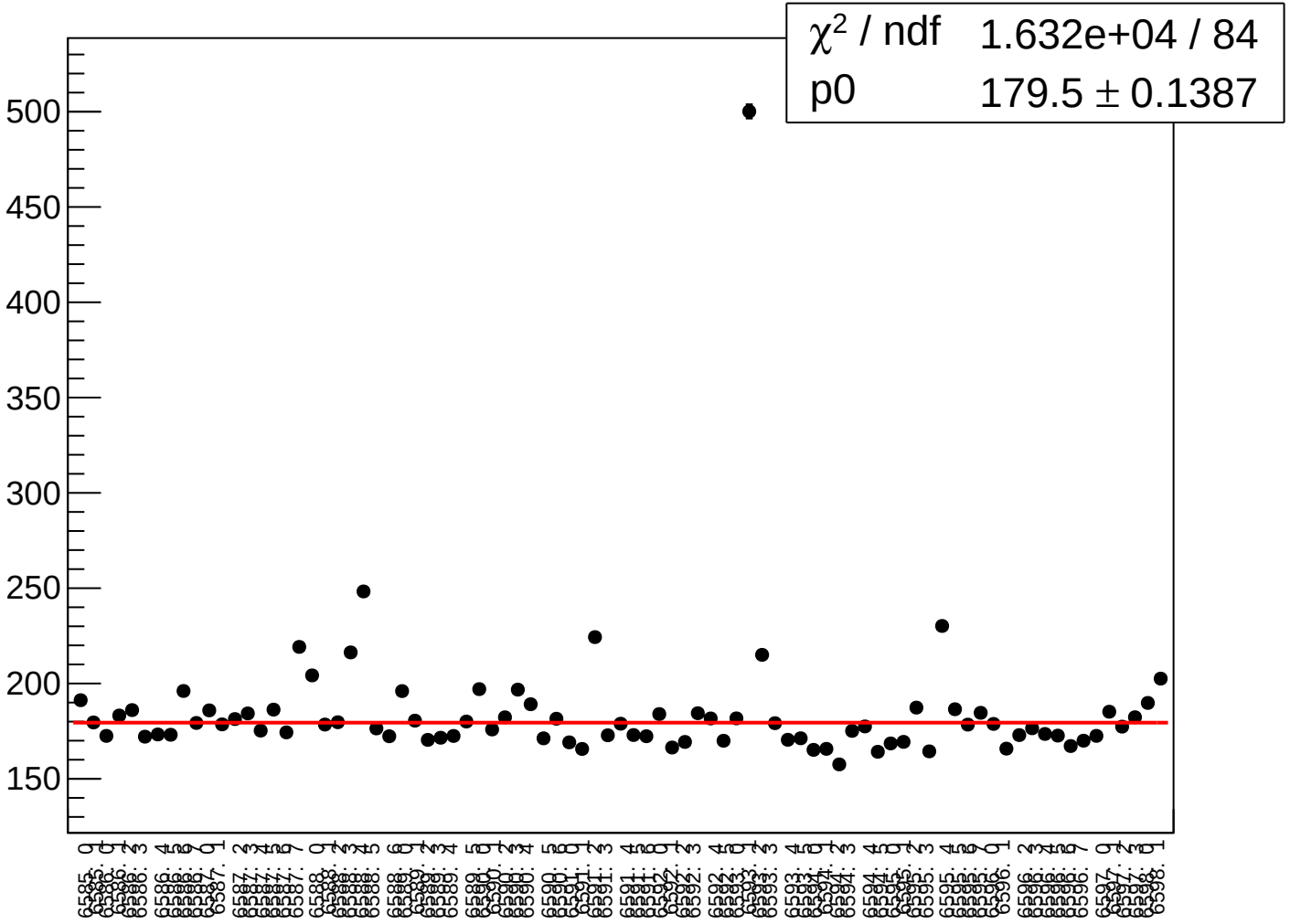
asym_bpm0i07WS_rms vs run

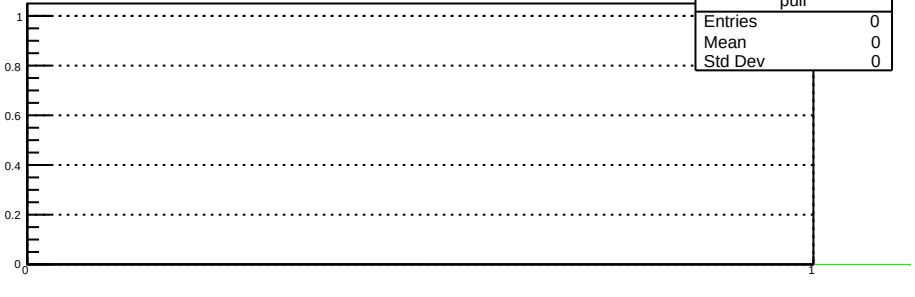


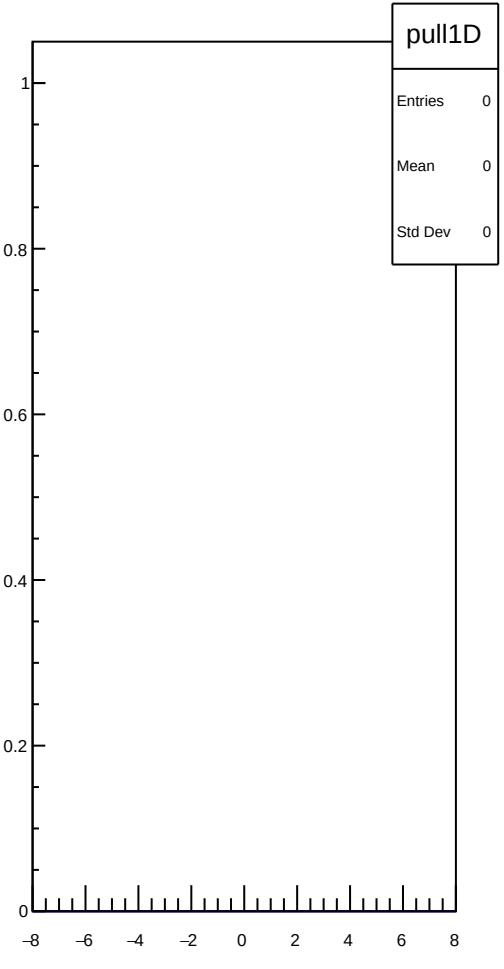

asym_bpm0l01WS_mean vs run
χ² / ndf 135.5 / 84
p0 1038 ± 196.2
pull
Entries 85
Mean −498.7
Std Dev 526.6

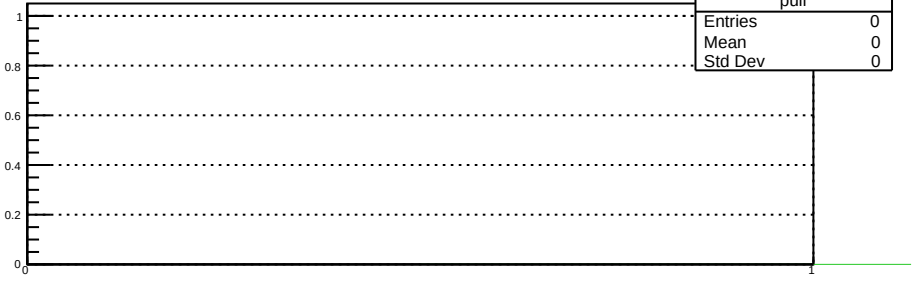

pull1D
Entries 85
Mean 0.004666
Std Dev 1.262

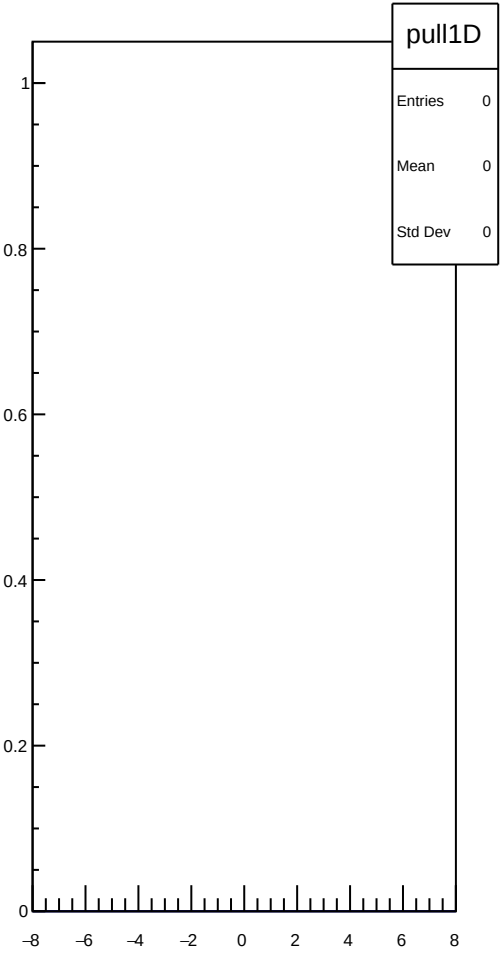
asym_bpm0l01WS_rms vs run

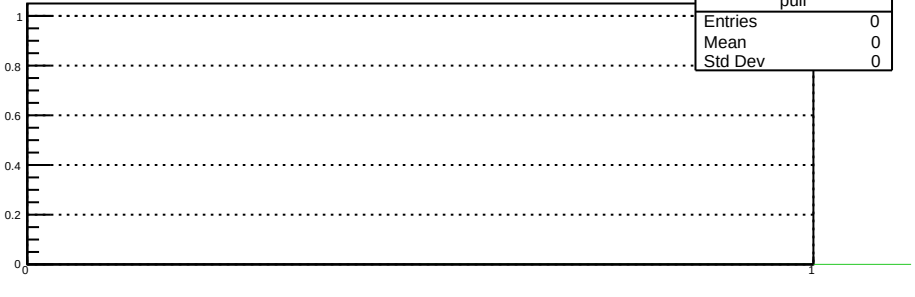


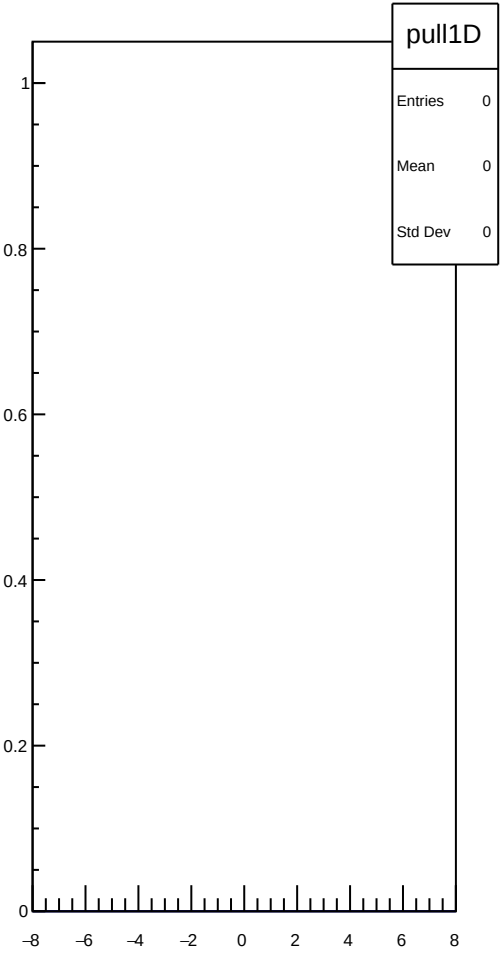

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

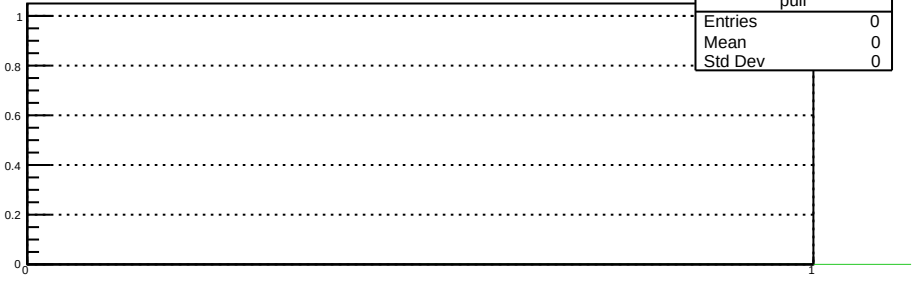

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

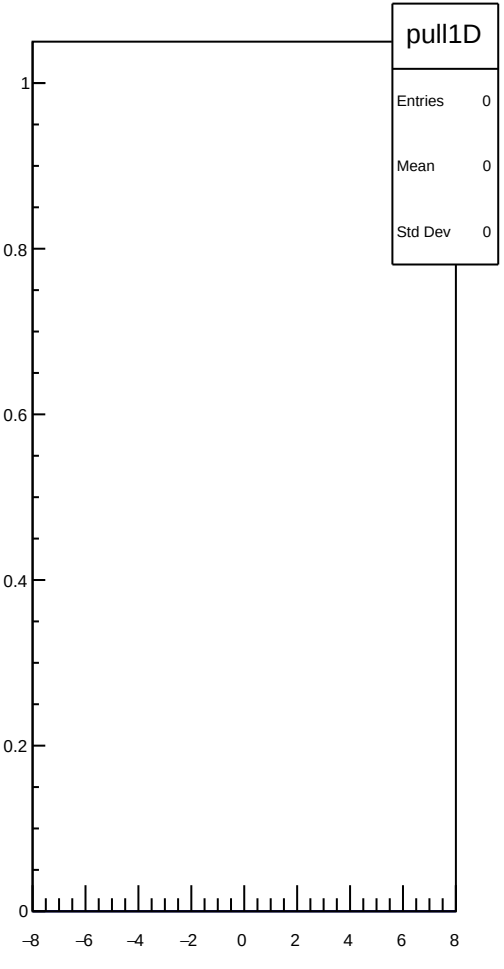

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

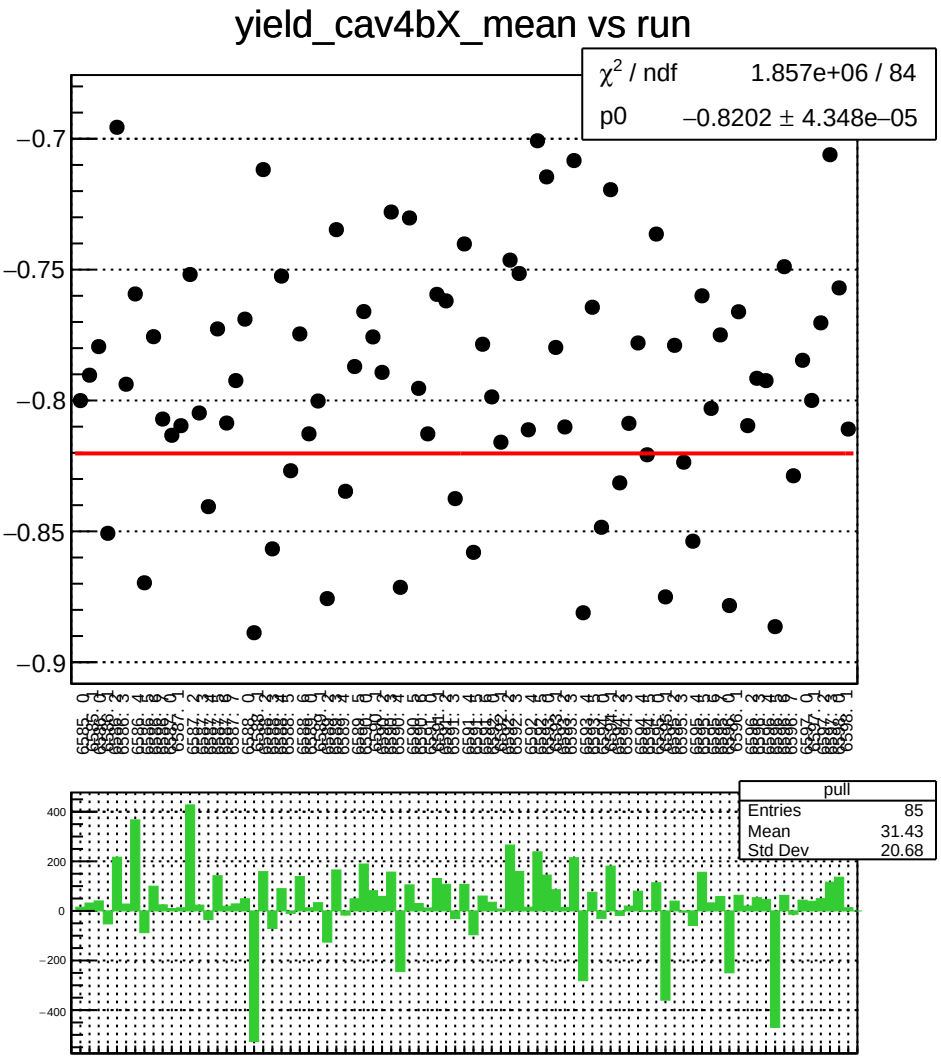

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

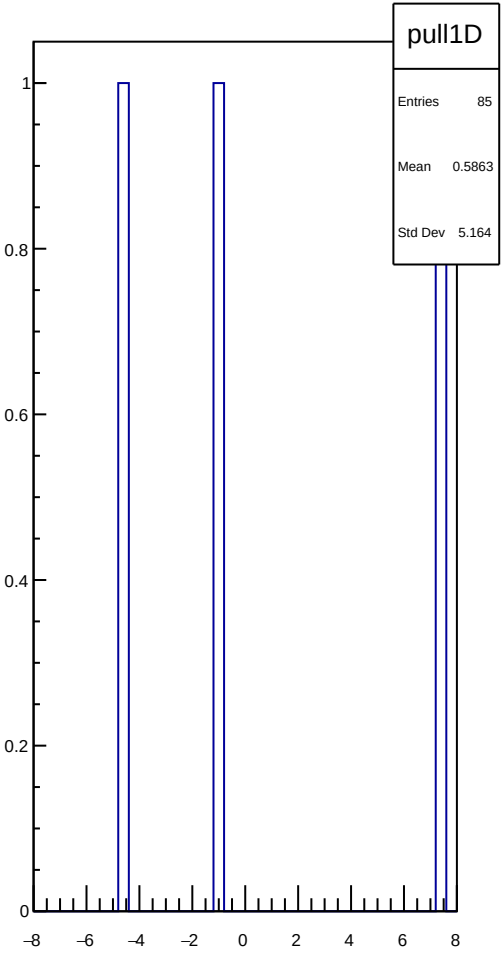

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

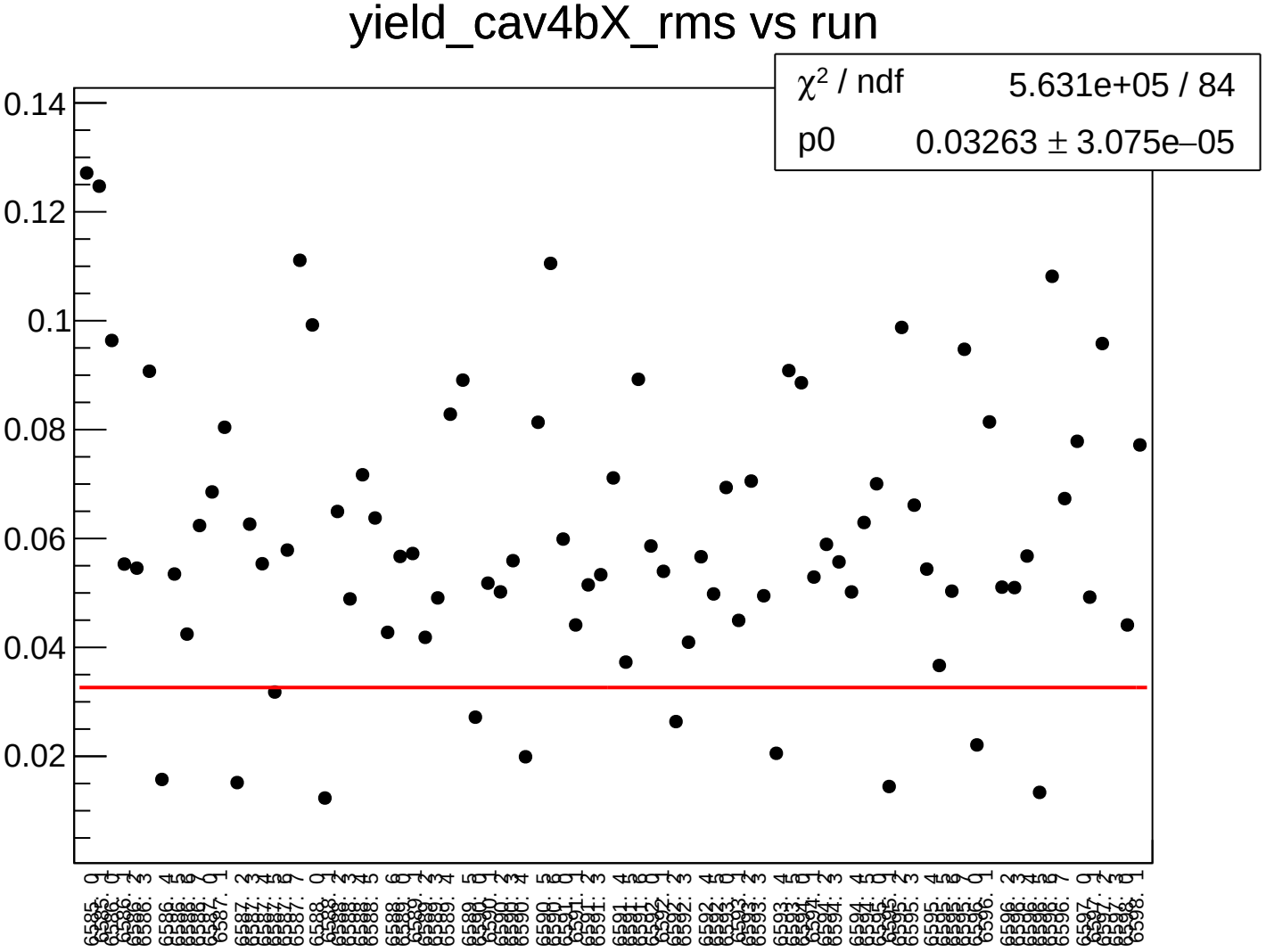

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

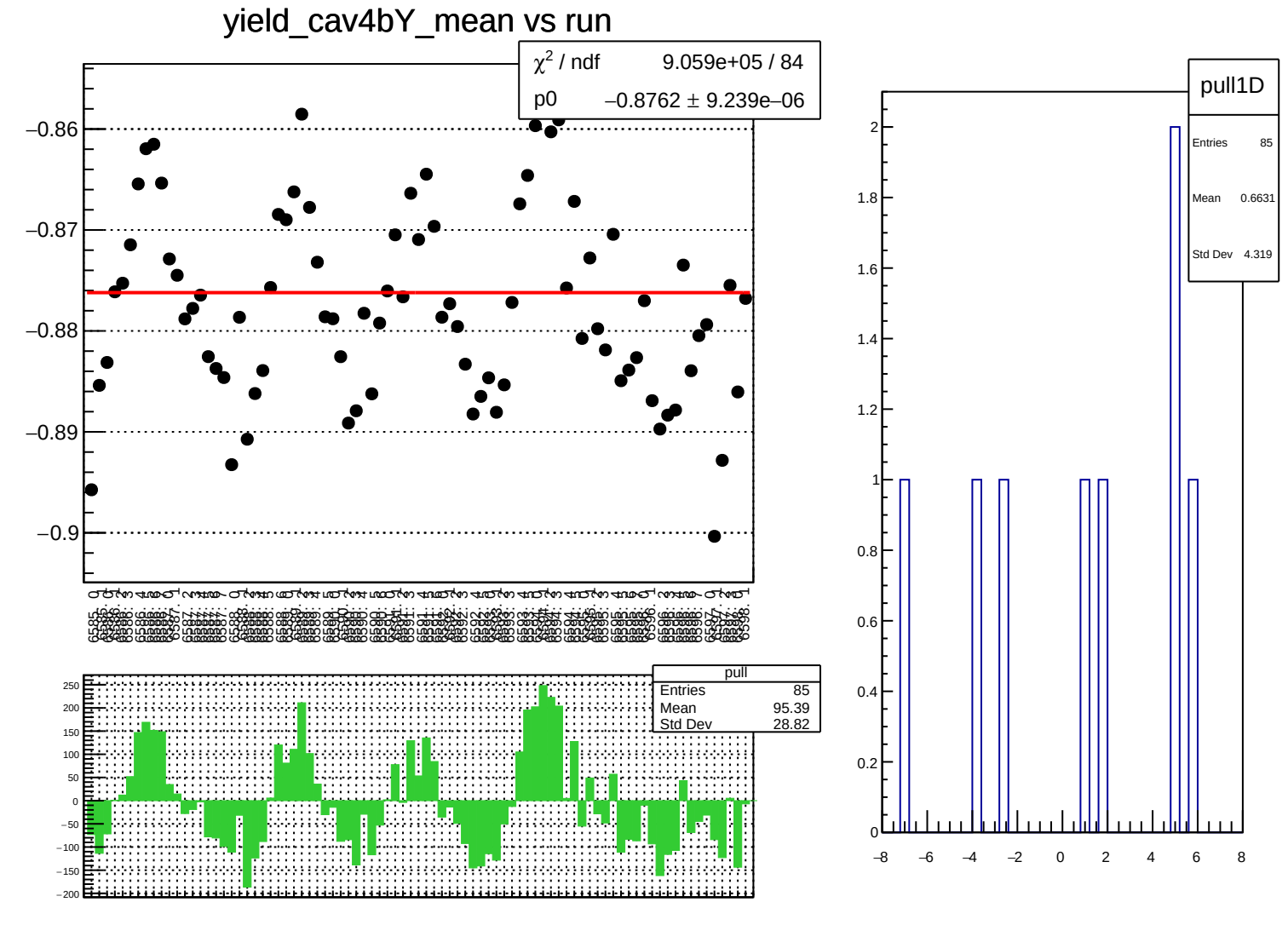

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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

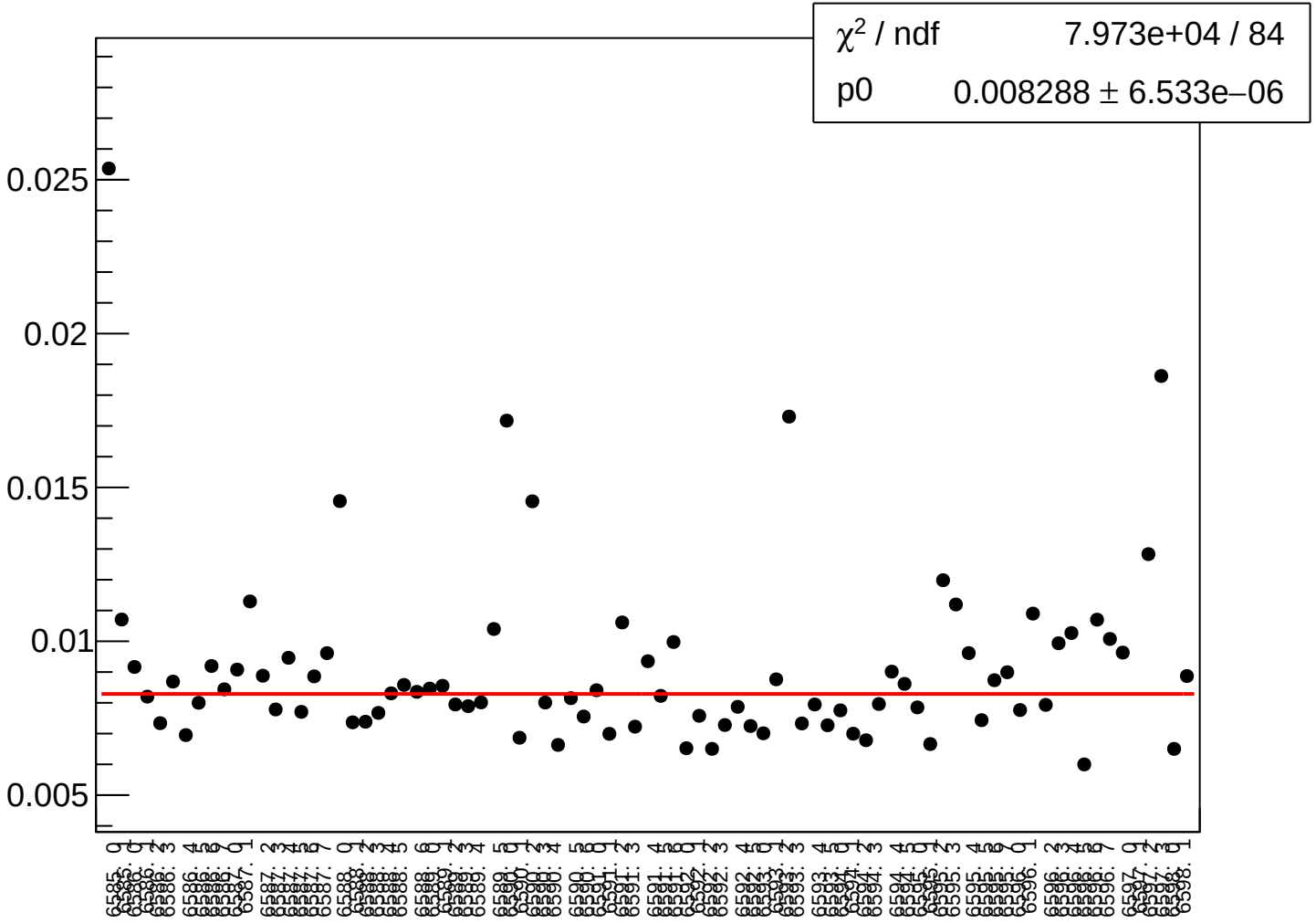

yield_cav4bX_mean vs run
χ^2 / ndf 1.857e+06 / 84
p0 −0.8202 ± 4.348e−05
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 85
Mean 31.43
Std Dev 20.68
400
200
0
−200
−400

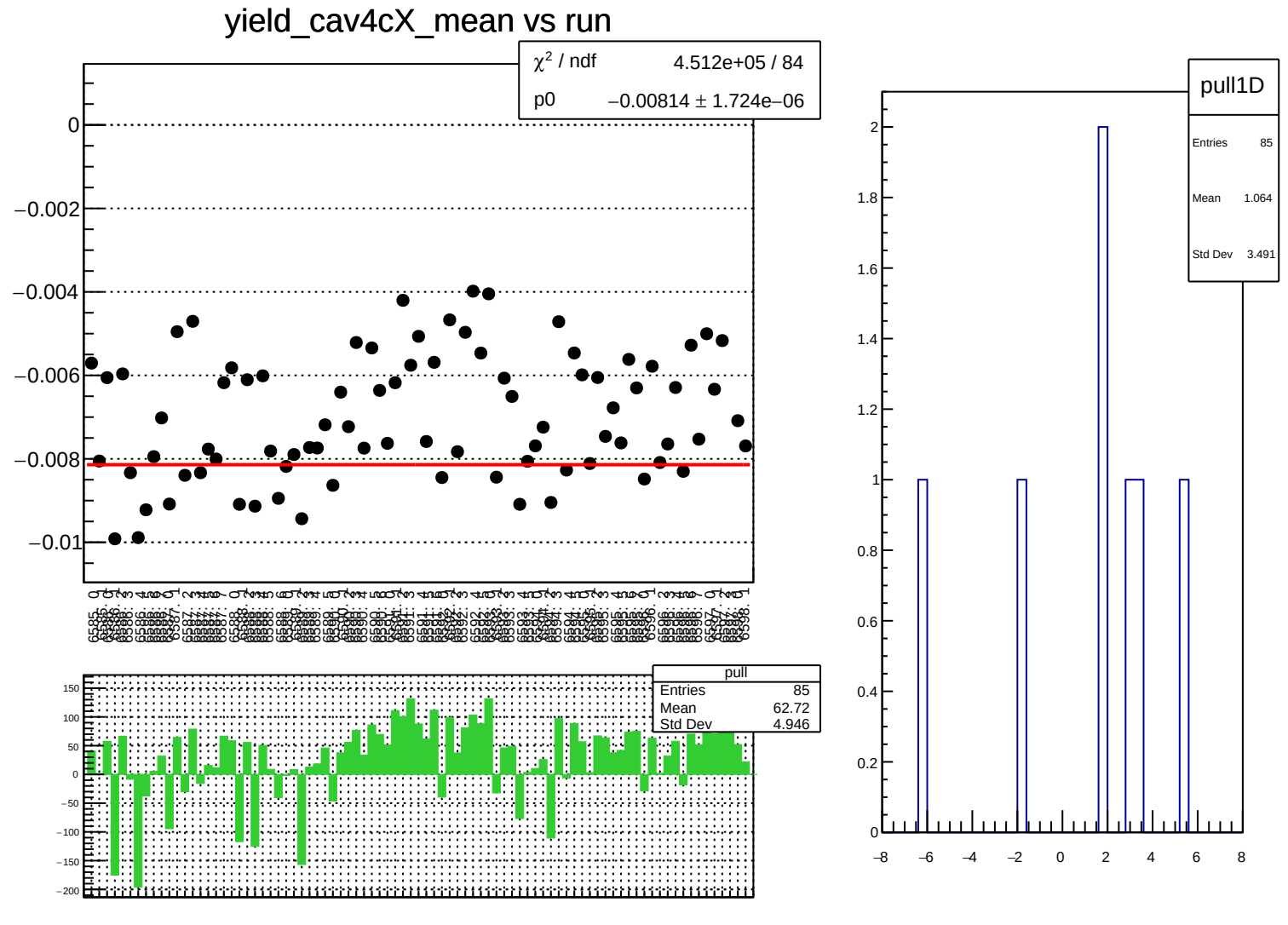

pull1D
Entries 85
Mean 0.5863
Std Dev 5.164
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4bX_rms vs run
χ^2 / ndf 5.631e+05 / 84
p0 0.03263 ± 3.075e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

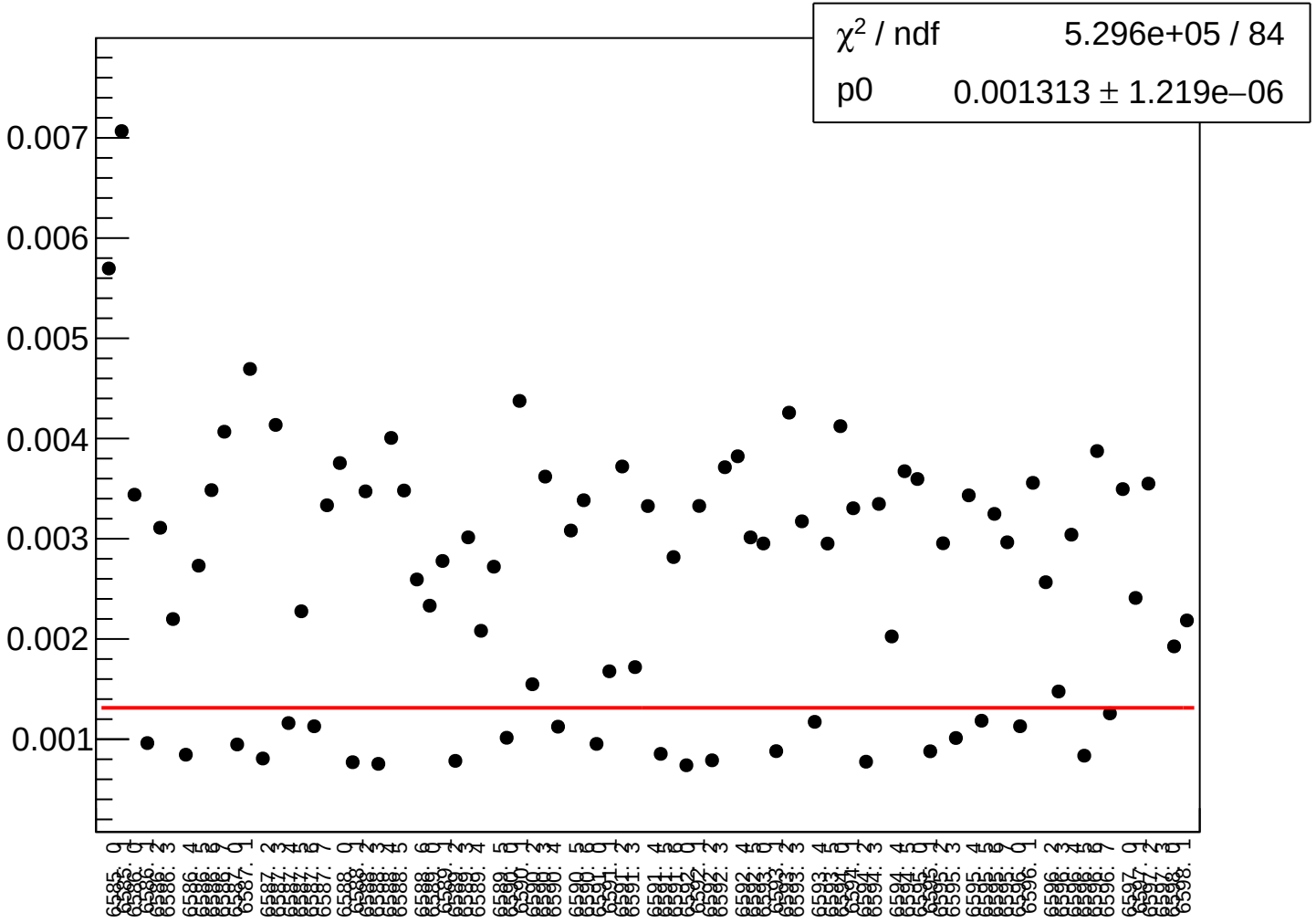

yield_cav4bY_mean vs run
χ^2 / ndf 9.059e+05 / 84
p0 −0.8762 ± 9.239e−06
−0.86
−0.87
−0.88
−0.89
−0.9
pull
Entries 85
Mean 95.39
Std Dev 28.82
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 85
Mean 0.6631
Std Dev 4.319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

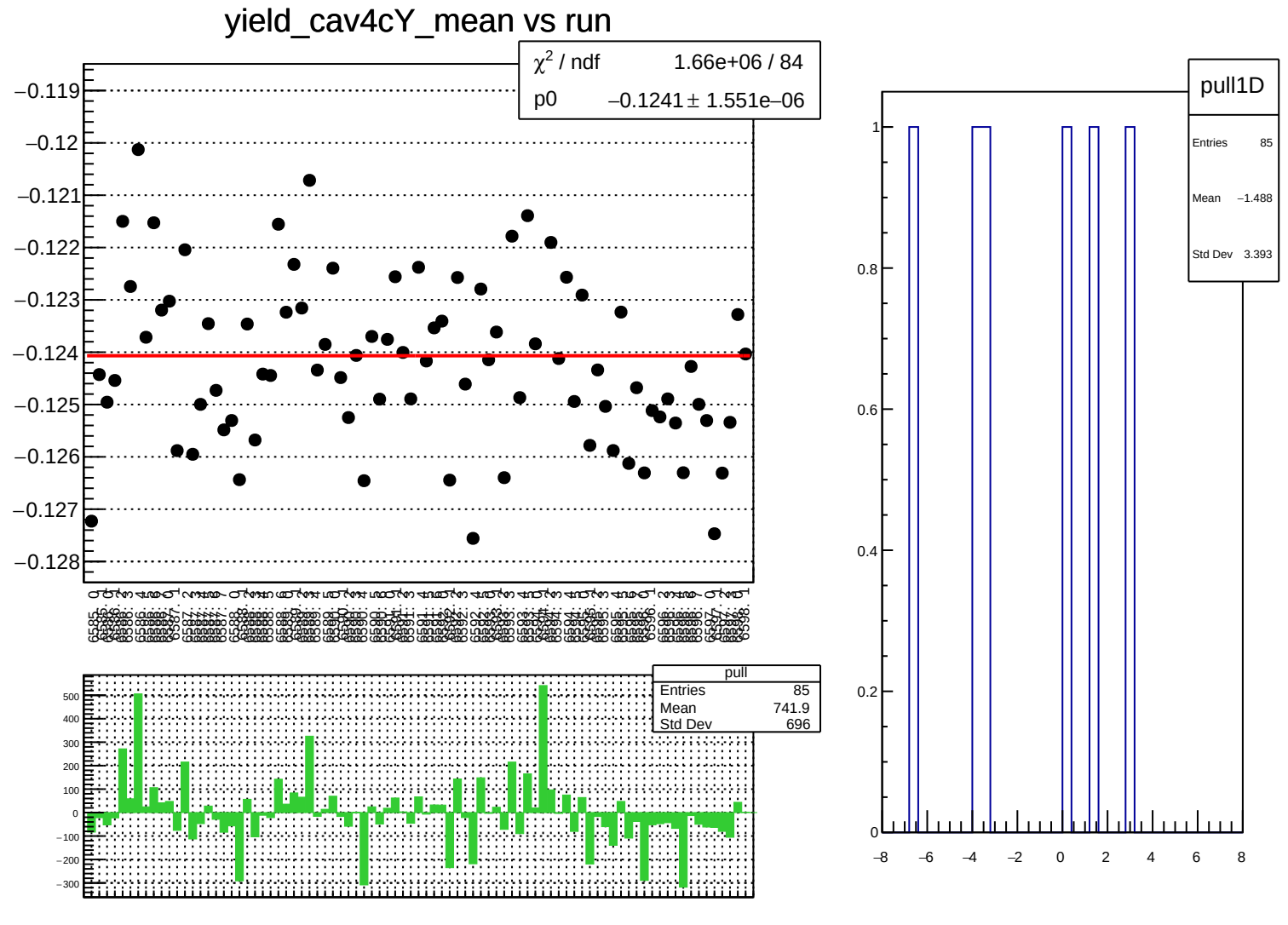
yield_cav4bY_rms vs run



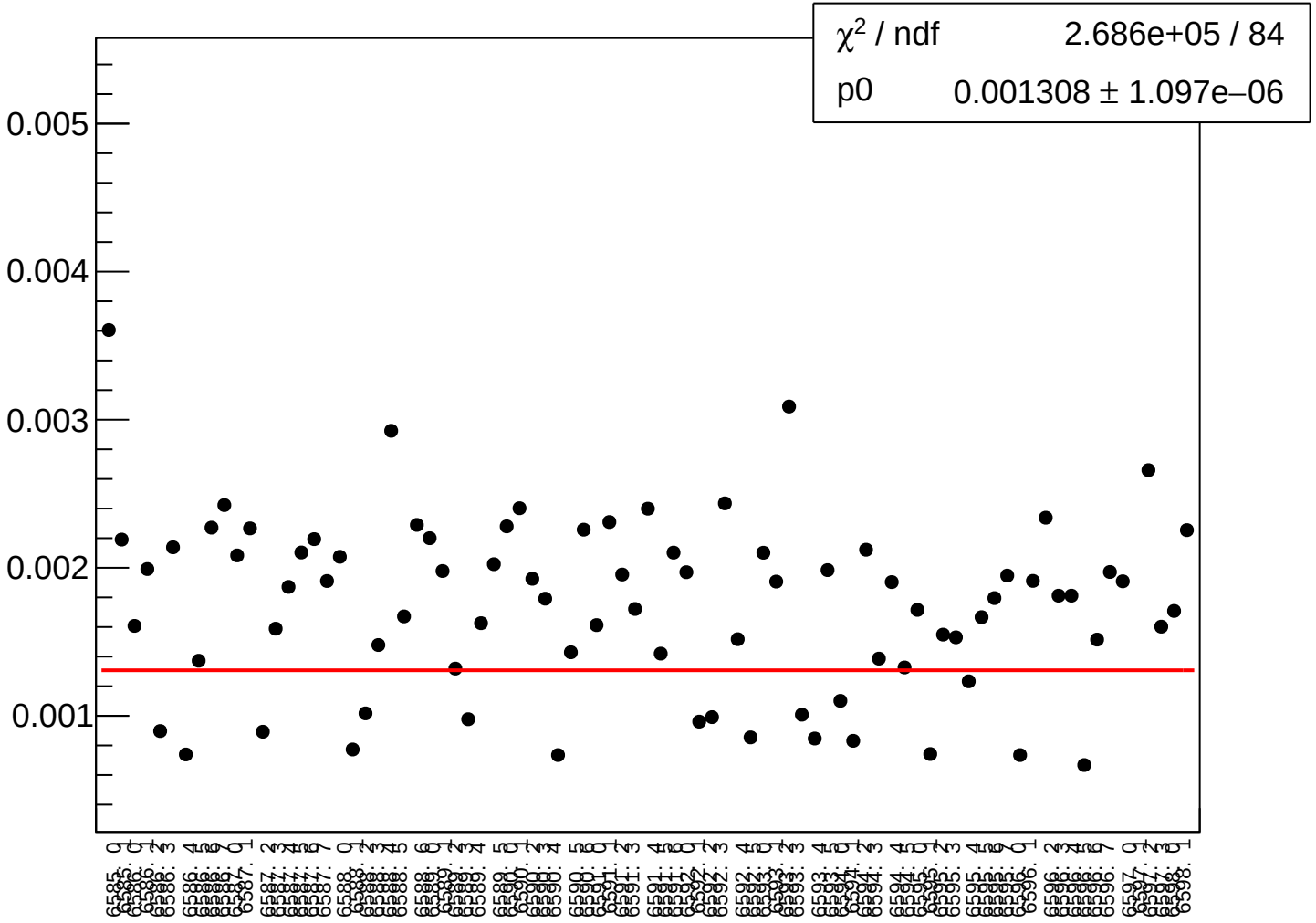

yield_cav4cX_mean vs run
χ² / ndf 4.512e+05 / 84
p0 −0.00814 ± 1.724e−06
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 85
Mean 62.72
Std Dev 4.946
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 85
Mean 1.064
Std Dev 3.491
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

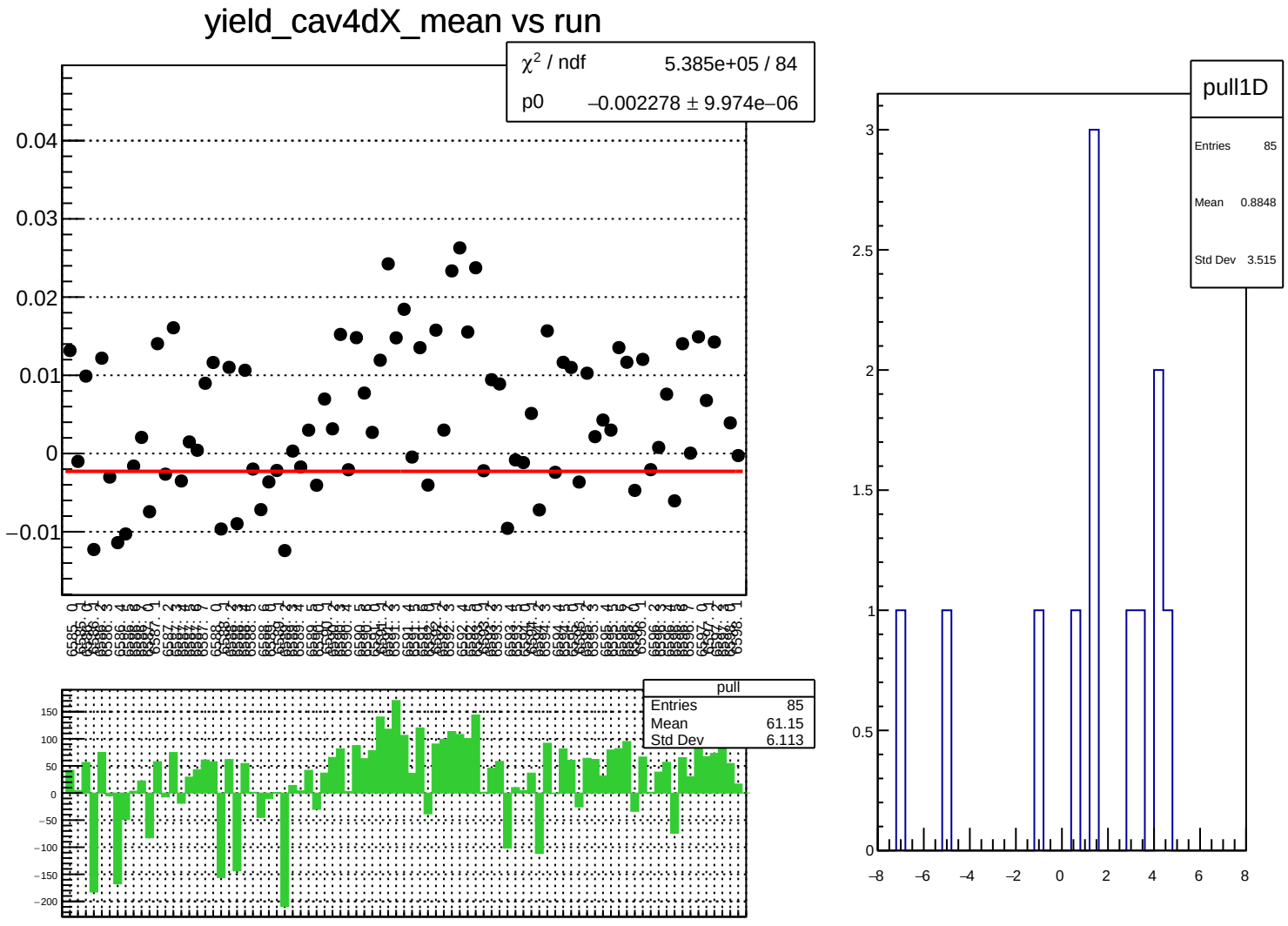
yield_cav4cX_rms vs run



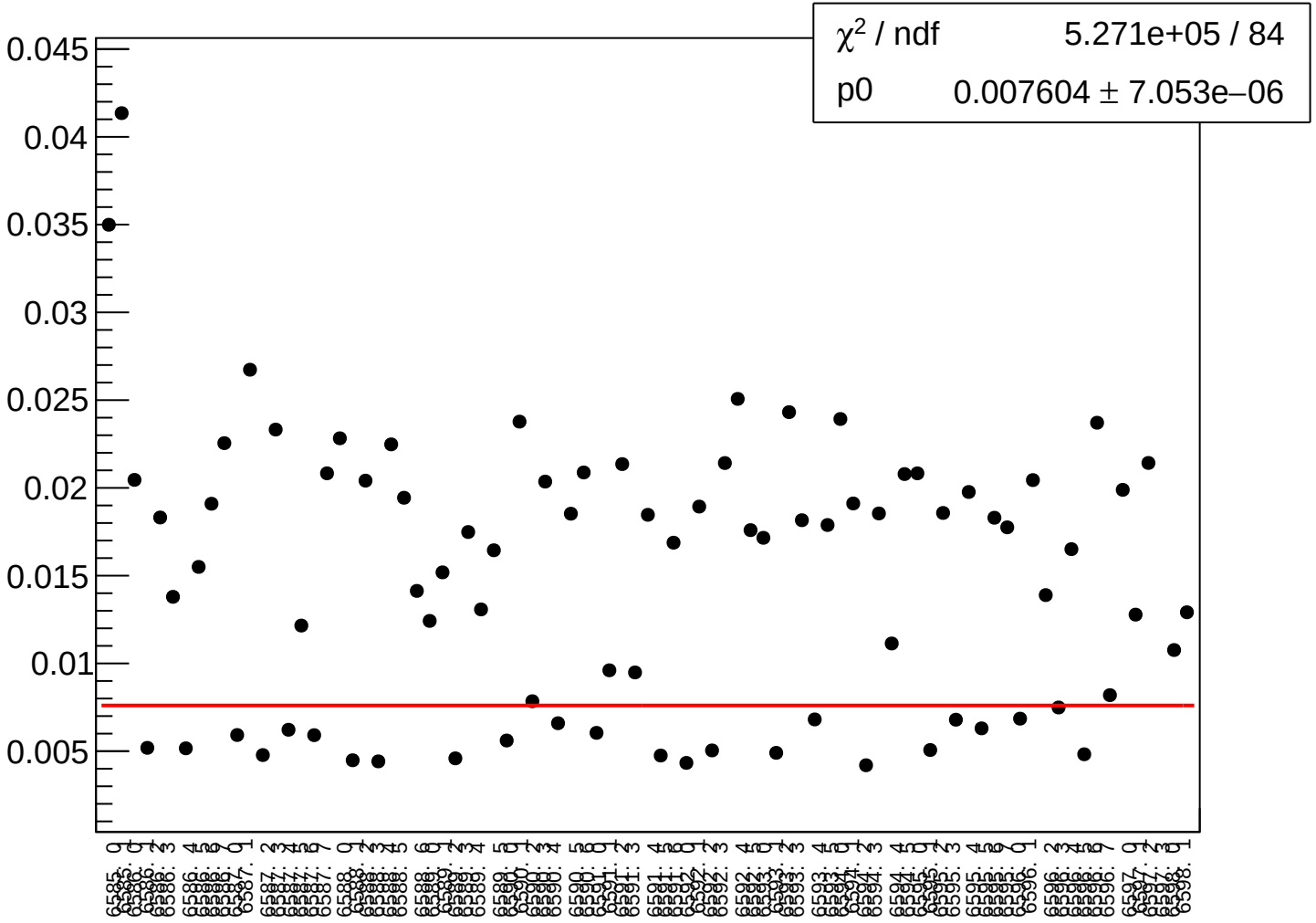

yield_cav4cY_mean vs run
χ² / ndf 1.66e+06 / 84
p0 −0.1241 ± 1.551e−06
−0.119
−0.12
−0.121
−0.122
−0.123
−0.124
−0.125
−0.126
−0.127
−0.128
pull
Entries 85
Mean 741.9
Std Dev 696
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 85
Mean −1.488
Std Dev 3.393
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

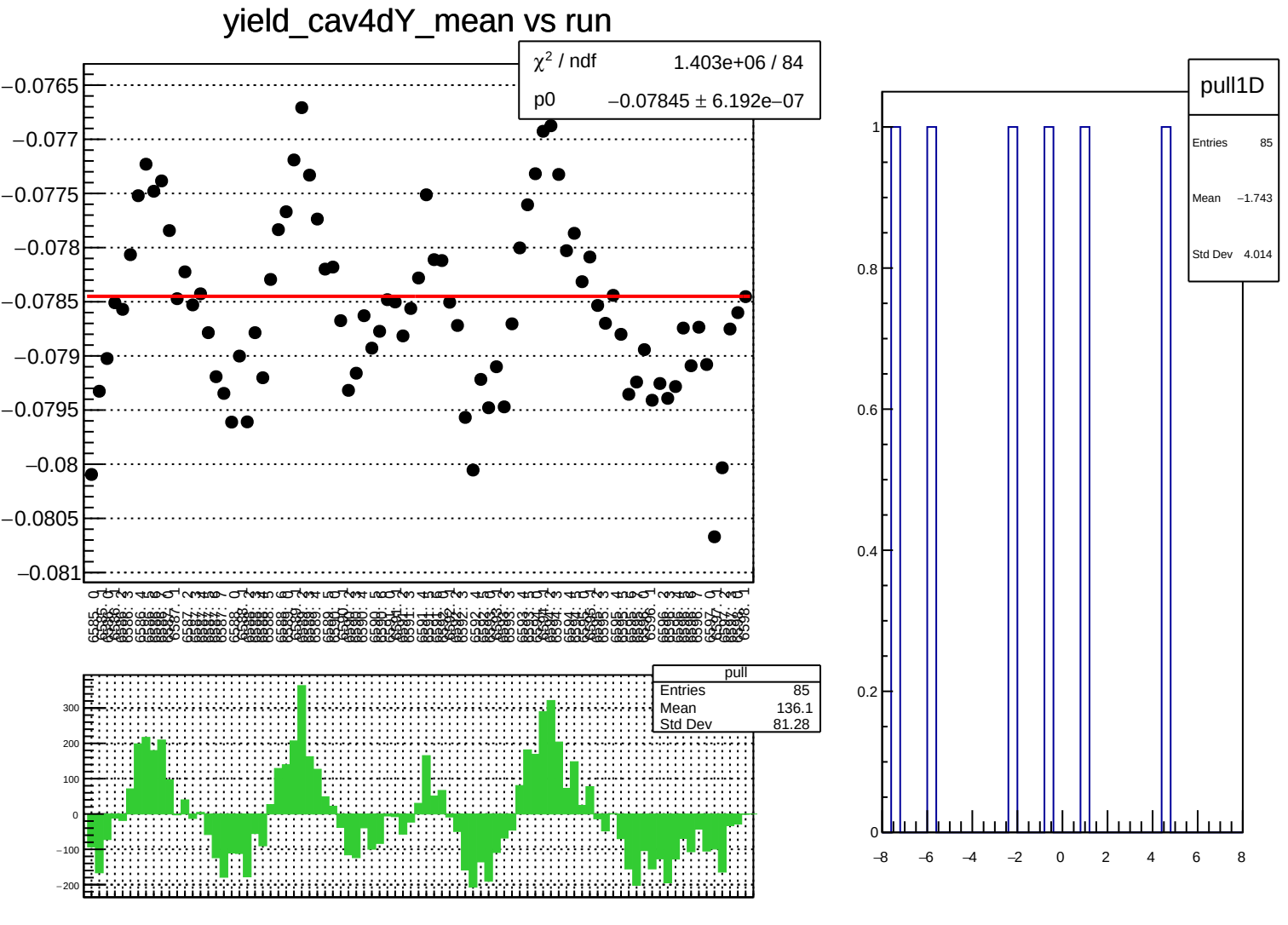
yield_cav4cY_rms vs run



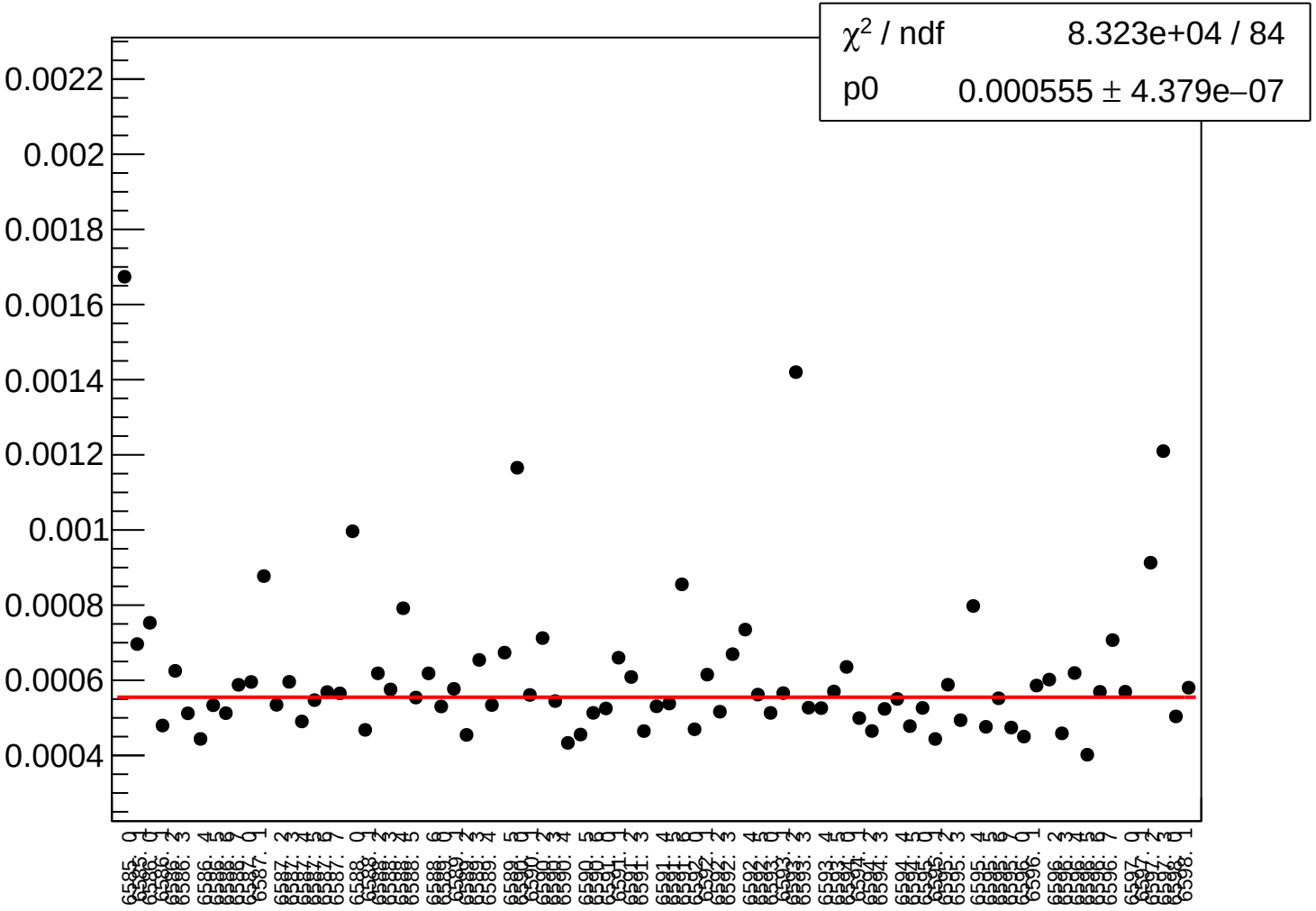

yield_cav4dX_mean vs run
χ² / ndf 5.385e+05 / 84
p0 −0.002278 ± 9.974e−06
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 85
Mean 61.15
Std Dev 6.113
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 85
Mean 0.8848
Std Dev 3.515
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

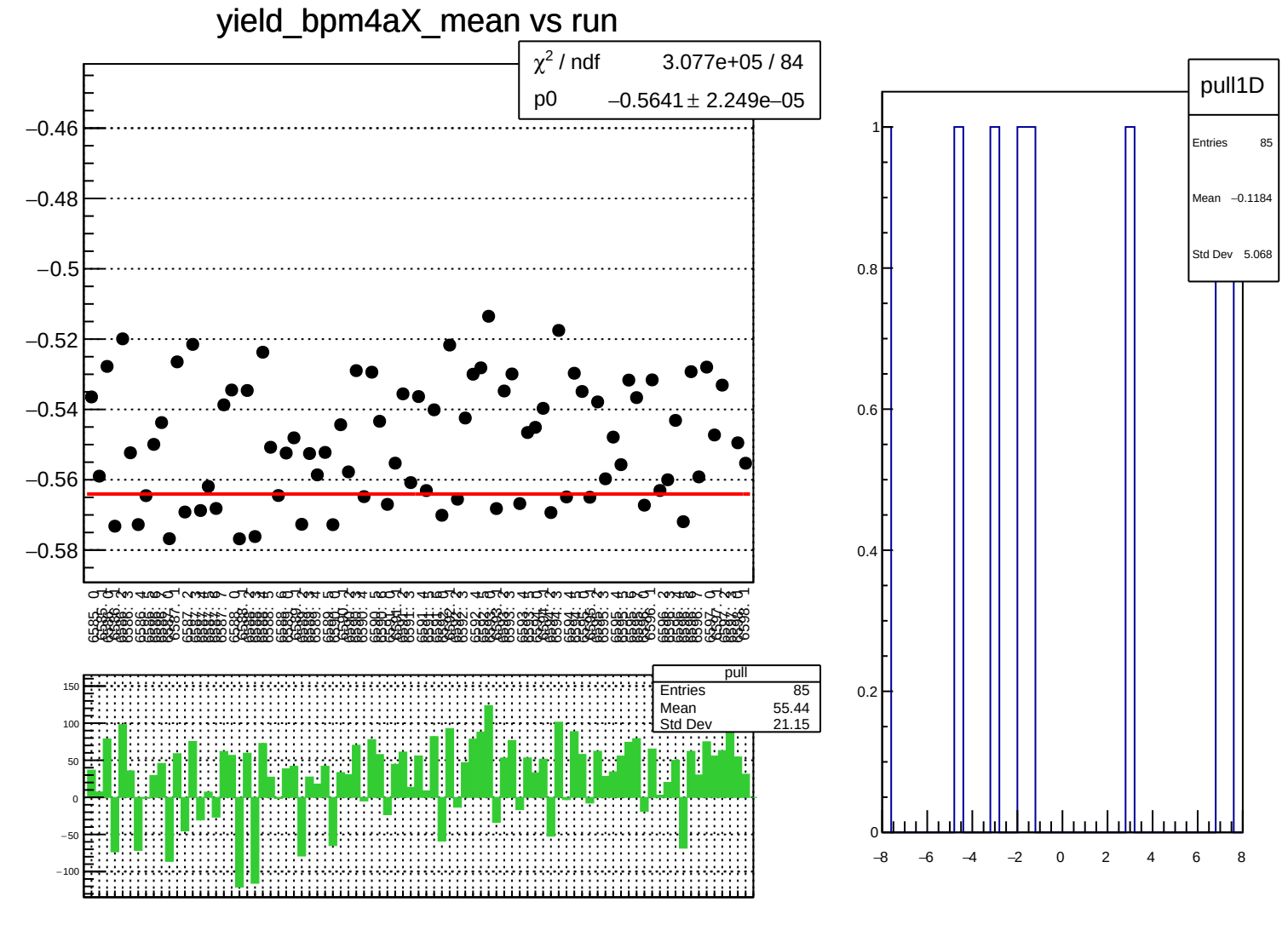
yield_cav4dX_rms vs run



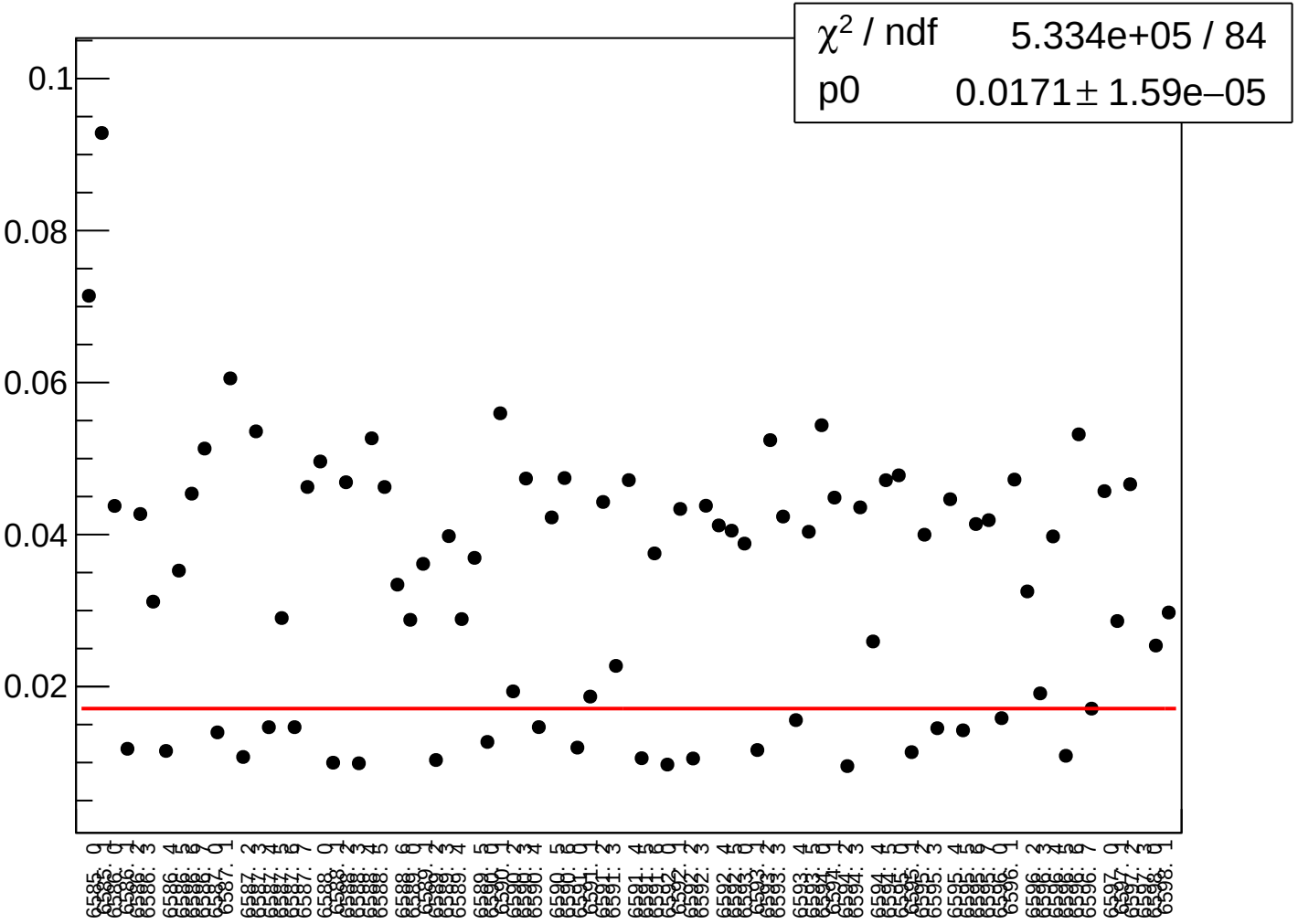

yield_cav4dY_mean vs run
χ² / ndf 1.403e+06 / 84
p0 −0.07845 ± 6.192e−07
−0.0765
−0.077
−0.0775
−0.078
−0.0785
−0.079
−0.0795
−0.08
−0.0805
−0.081
pull
Entries 85
Mean 136.1
Std Dev 81.28
300
200
100
0
−100
−200
pull1D
Entries 85
Mean −1.743
Std Dev 4.014
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

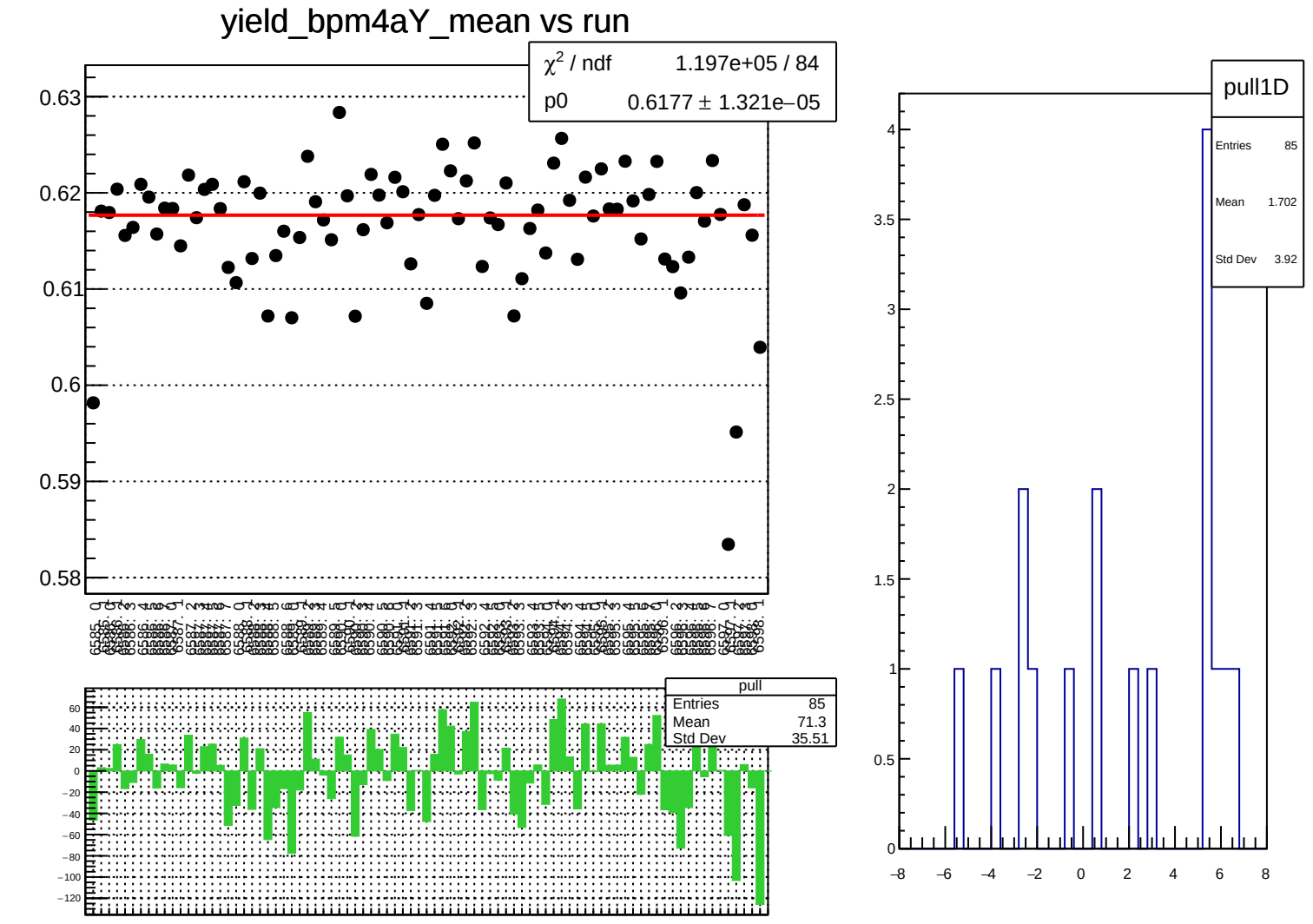
yield_cav4dY_rms vs run



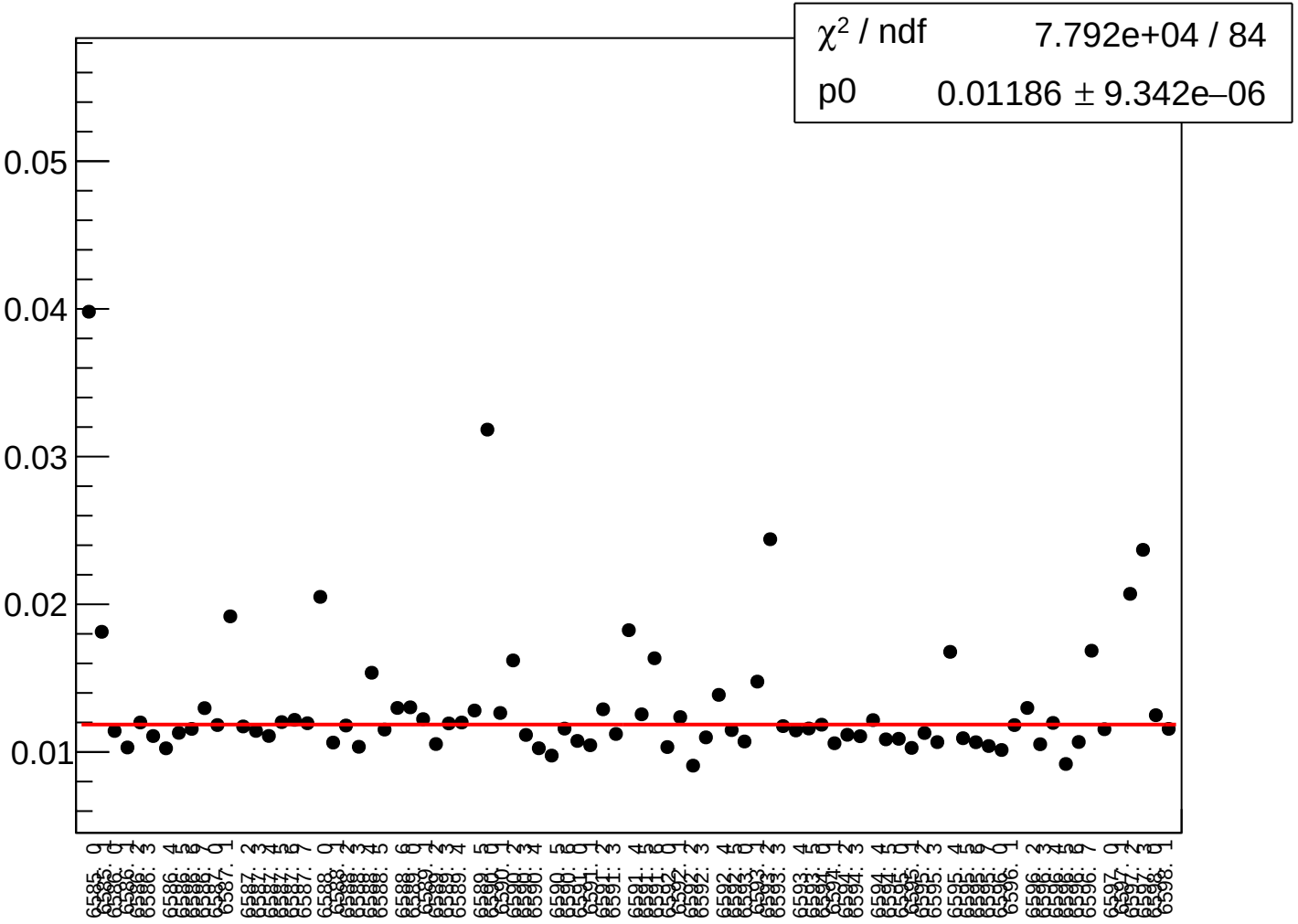

yield_bpm4aX_mean vs run
χ² / ndf 3.077e+05 / 84
p0 −0.5641 ± 2.249e−05
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
−0.58
pull
Entries 85
Mean 55.44
Std Dev 21.15
150
100
50
0
−50
−100
pull1D
Entries 85
Mean −0.1184
Std Dev 5.068
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

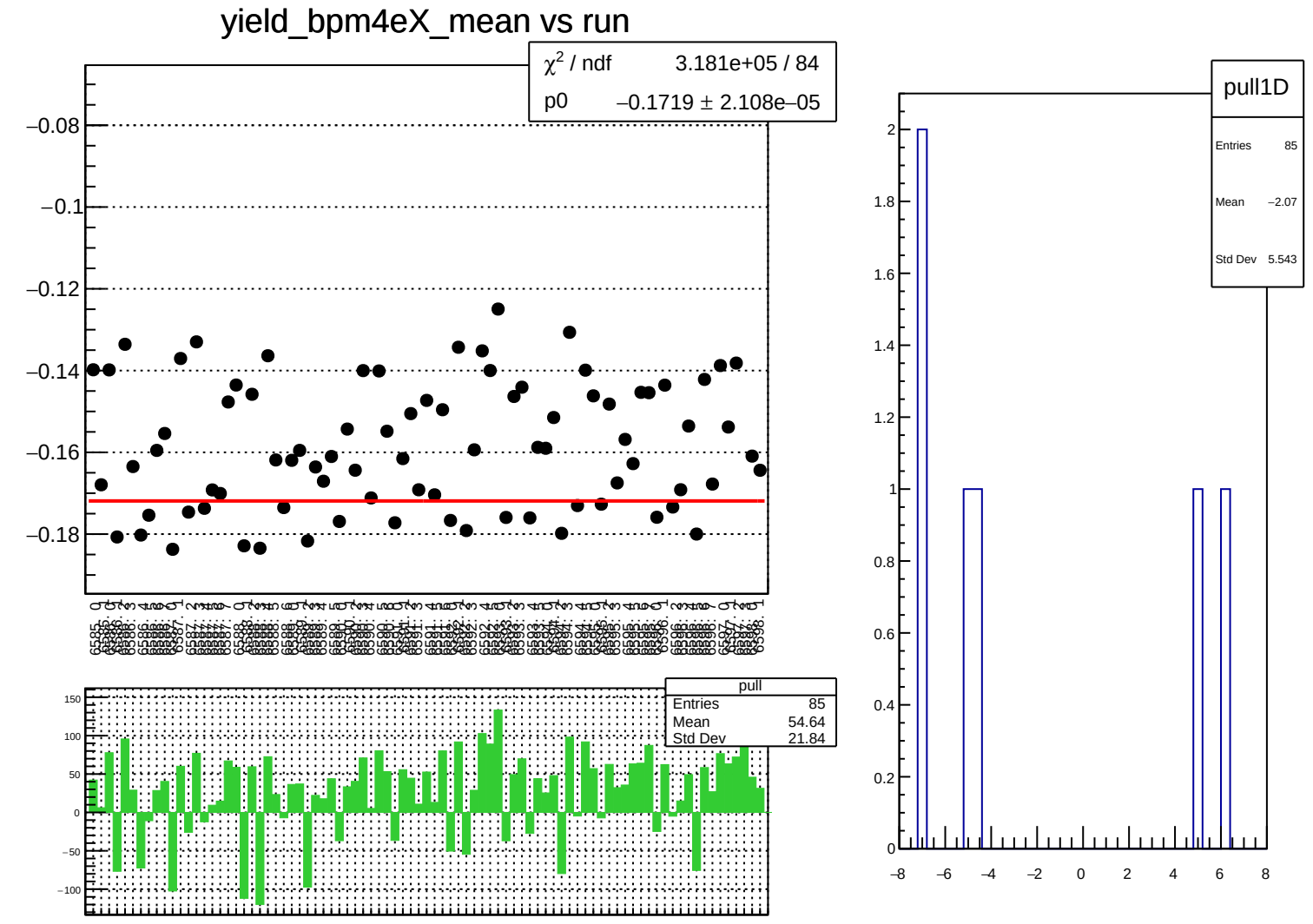
yield_bpm4aX_rms vs run

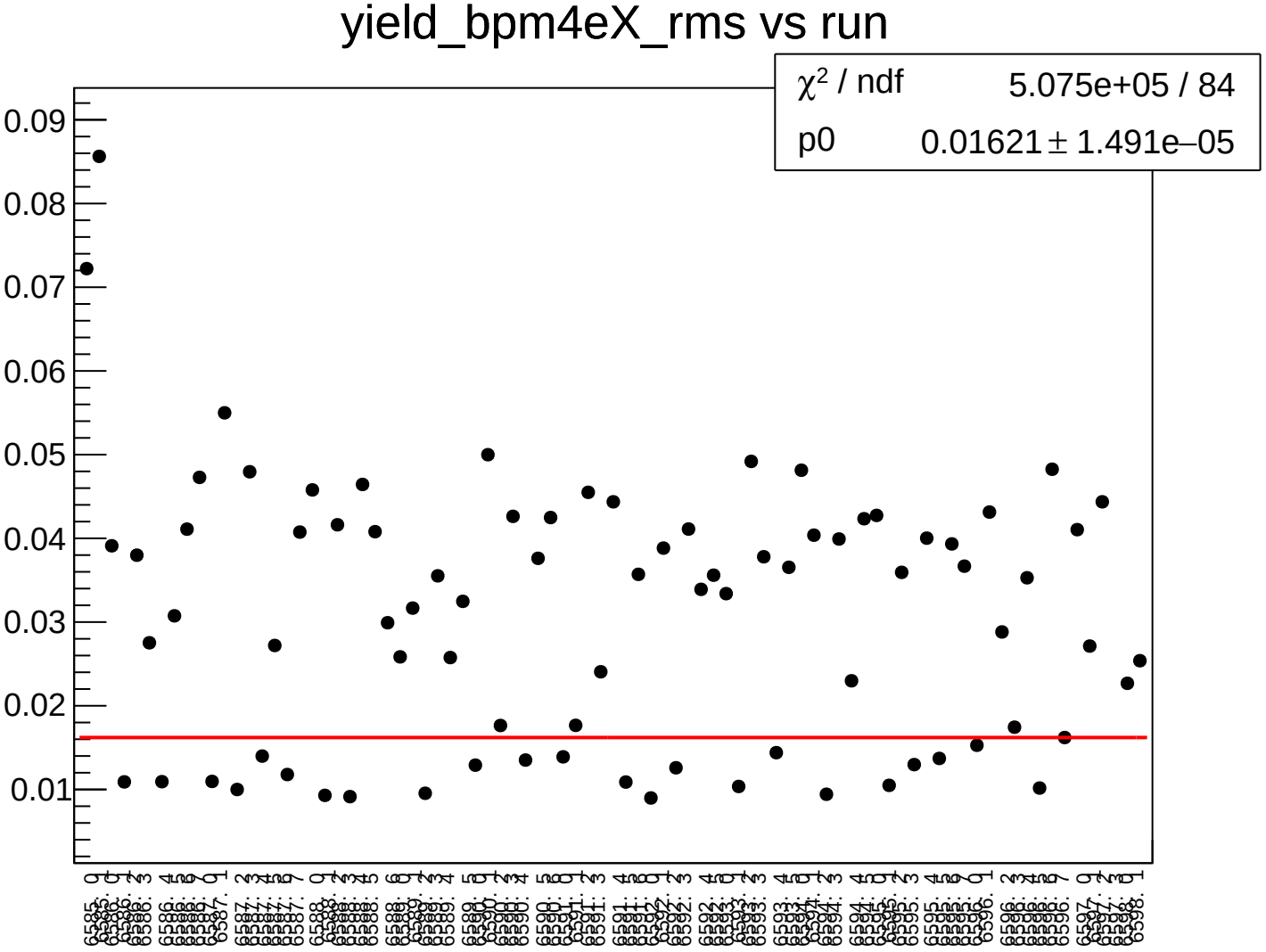


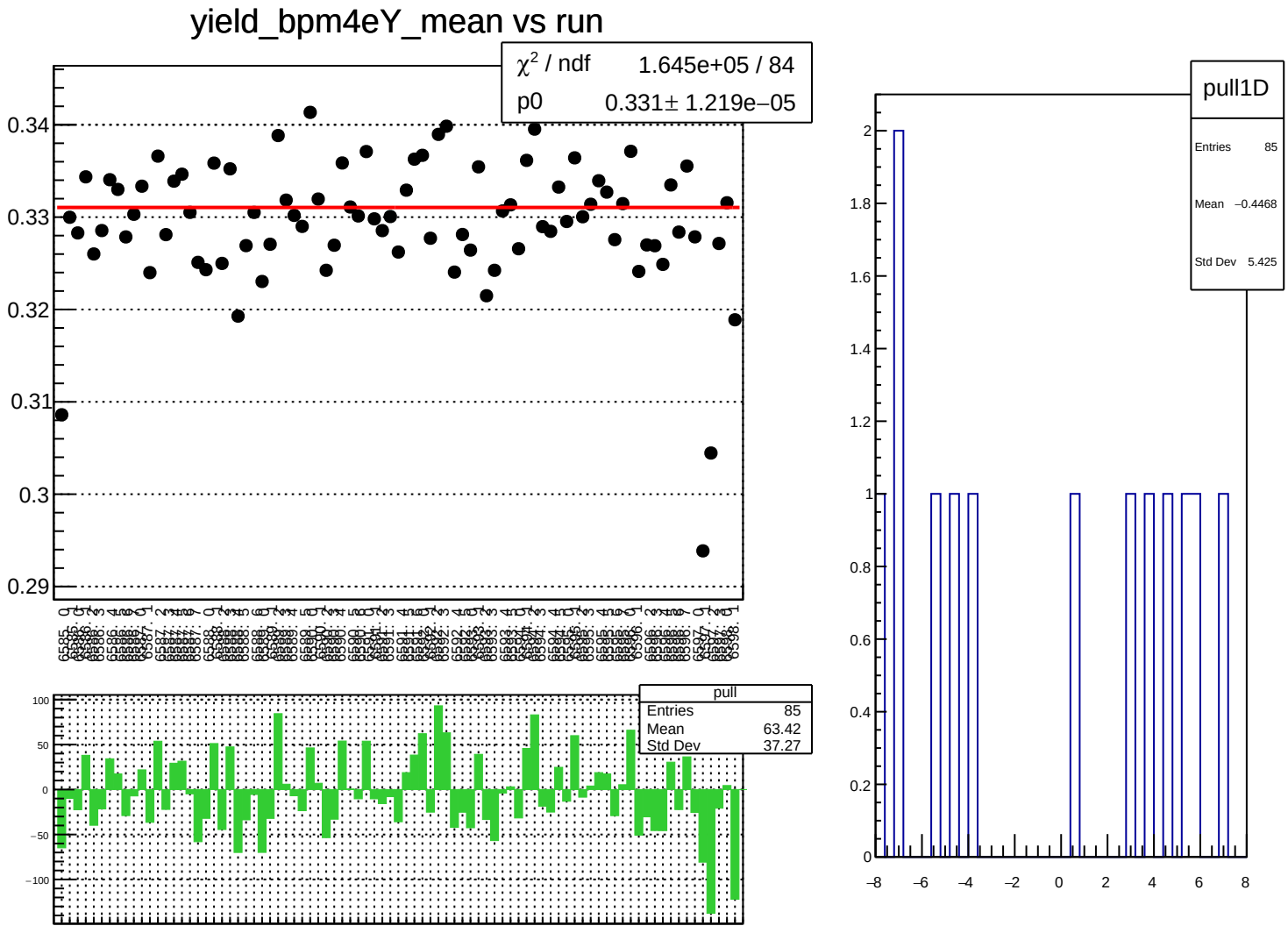

yield_bpm4aY_mean vs run
χ^2 / ndf 1.197e+05 / 84
p0 0.6177 ± 1.321e−05
0.63
0.62
0.61
0.6
0.59
0.58
pull
Entries 85
Mean 71.3
Std Dev 35.51
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 85
Mean 1.702
Std Dev 3.92
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

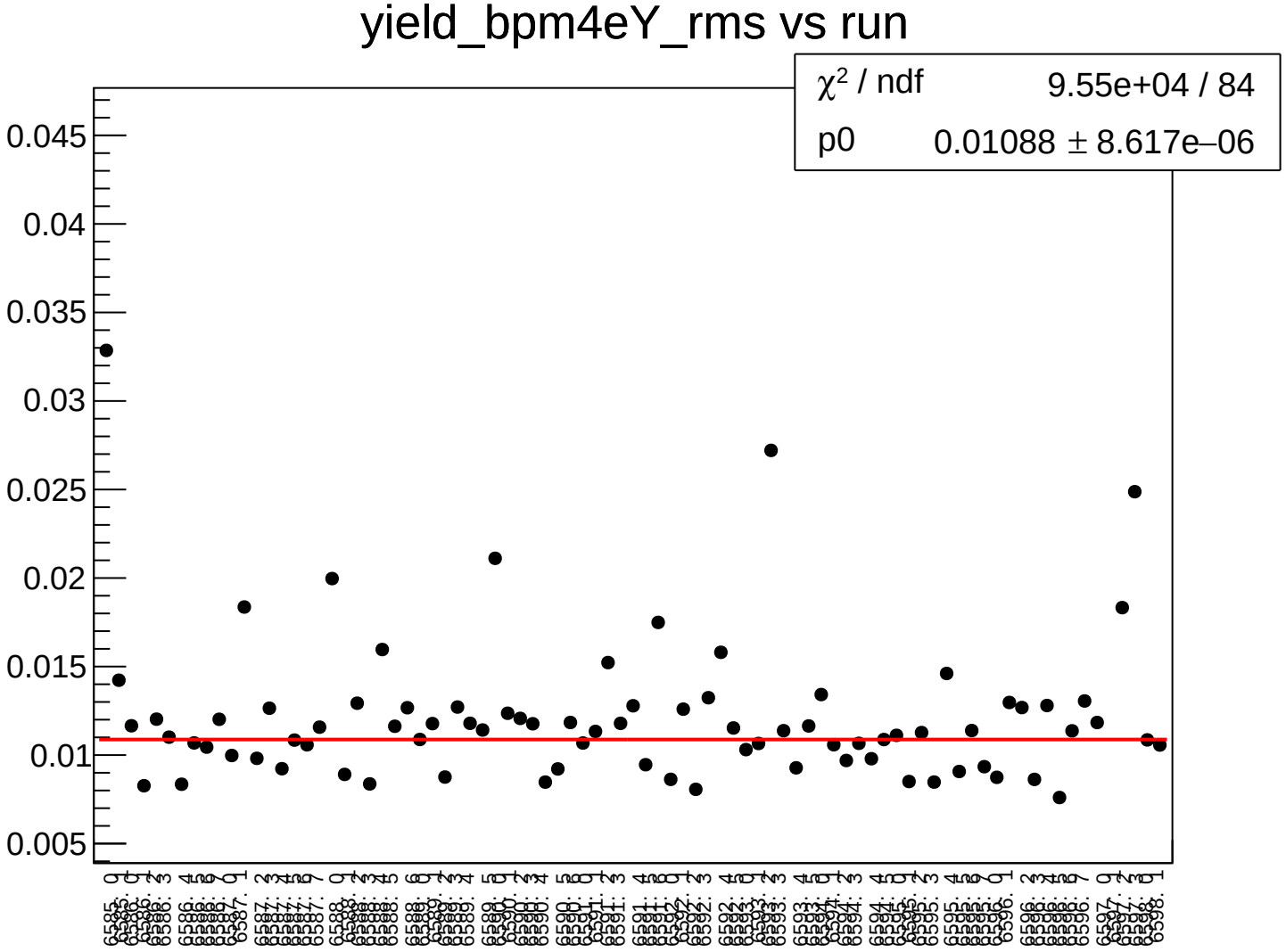
yield_bpm4aY_rms vs run

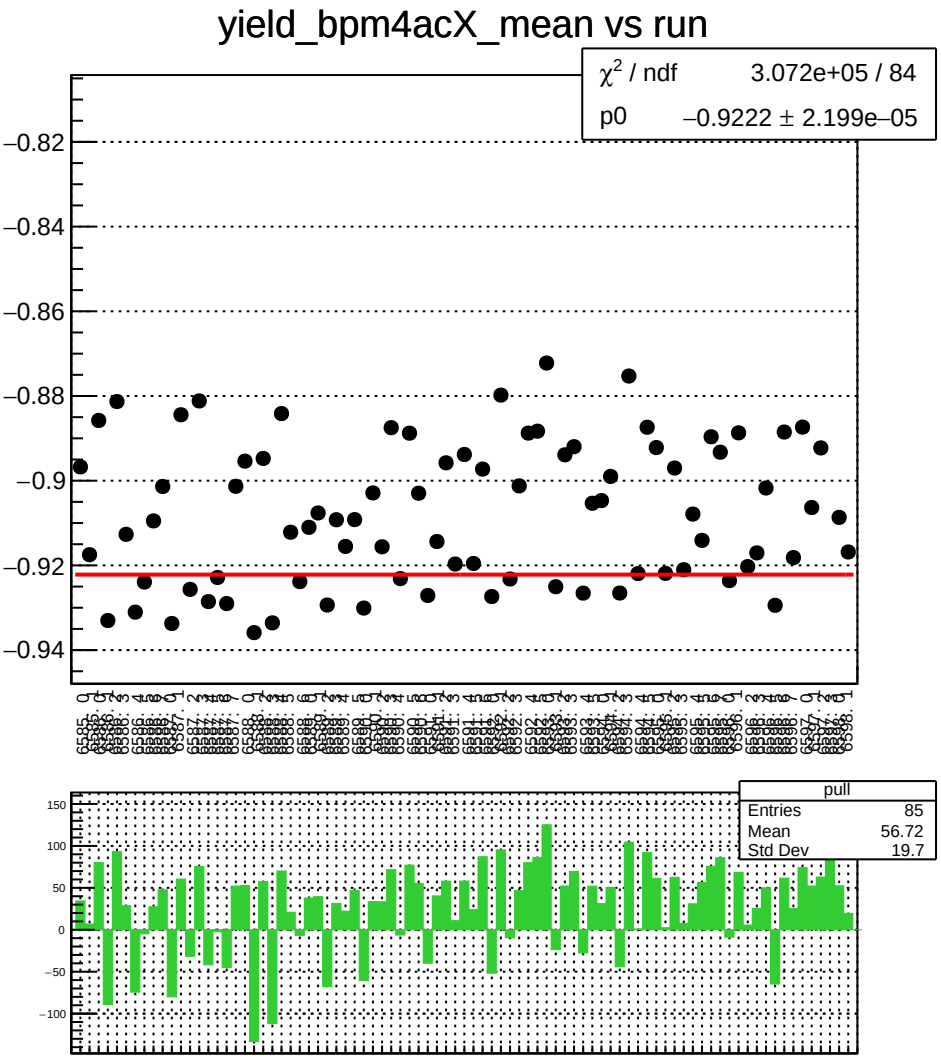


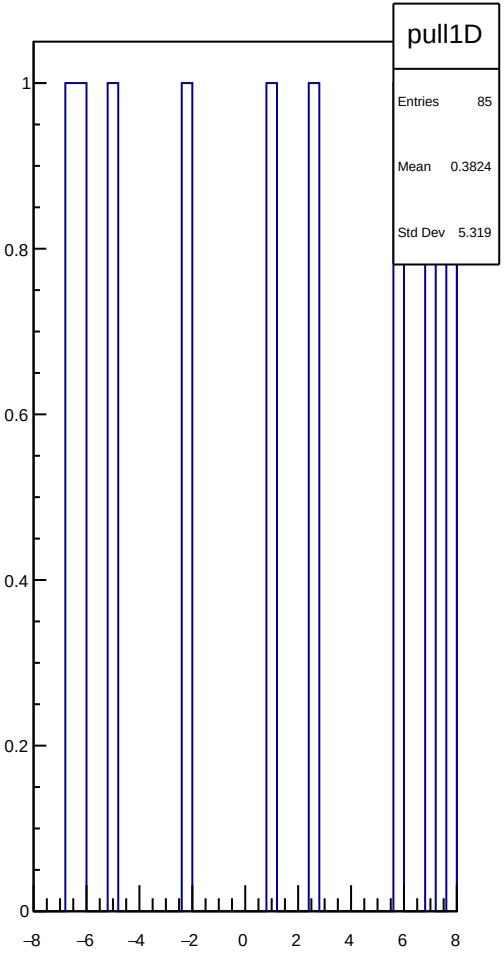

yield_bpm4eX_mean vs run
χ² / ndf 3.181e+05 / 84
p0 −0.1719 ± 2.108e−05
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 85
Mean 54.64
Std Dev 21.84
150
100
50
0
−50
−100
pull1D
Entries 85
Mean −2.07
Std Dev 5.543
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4eX_rms vs run
χ^2 / ndf 5.075e+05 / 84
p0 0.01621 ± 1.491e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

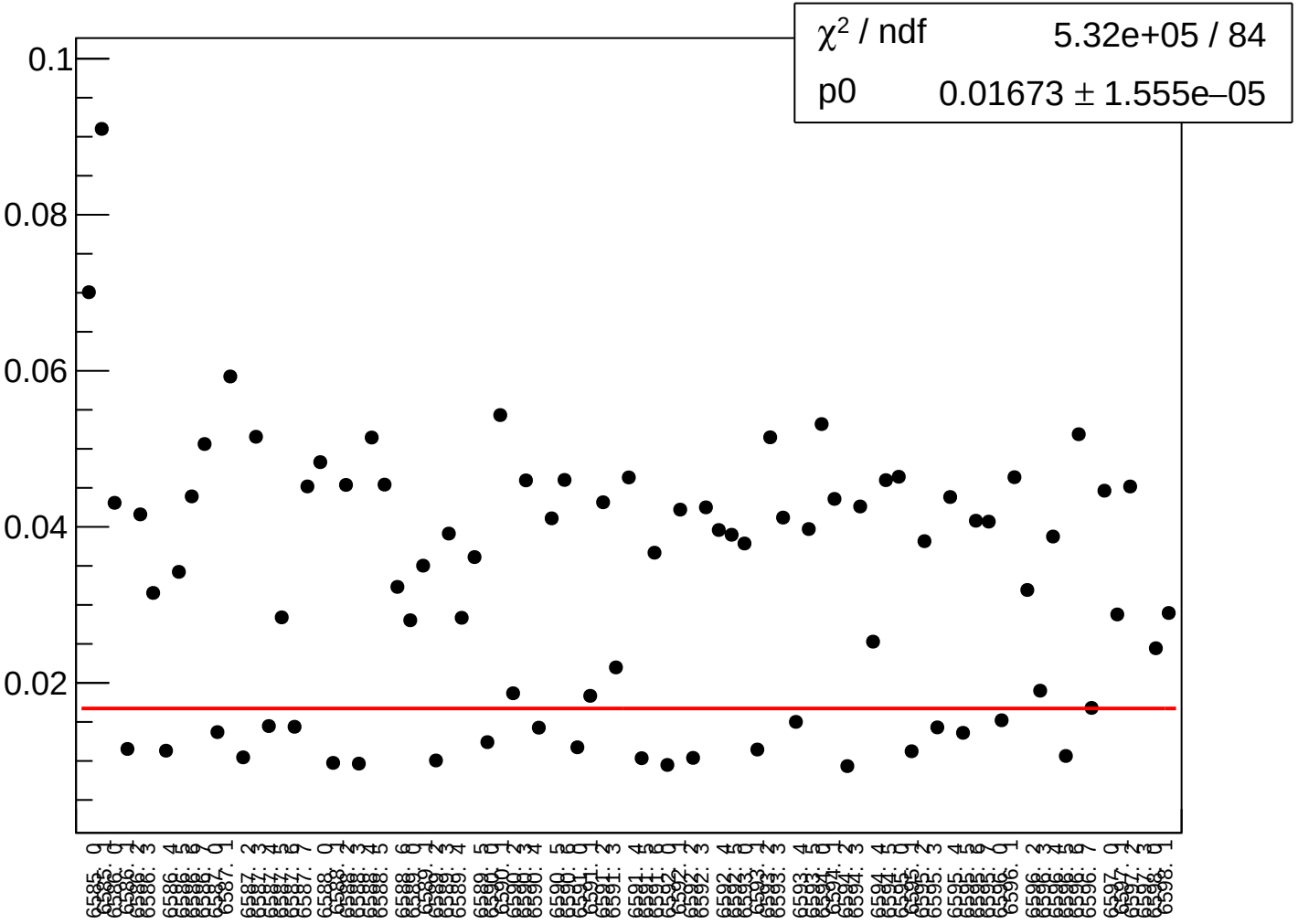

yield_bpm4eY_mean vs run
χ^2 / ndf 1.645e+05 / 84
p0 0.331± 1.219e−05
0.34
0.33
0.32
0.31
0.3
0.29
pull
Entries 85
Mean 63.42
Std Dev 37.27
100
50
0
−50
−100
pull1D
Entries 85
Mean −0.4468
Std Dev 5.425
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

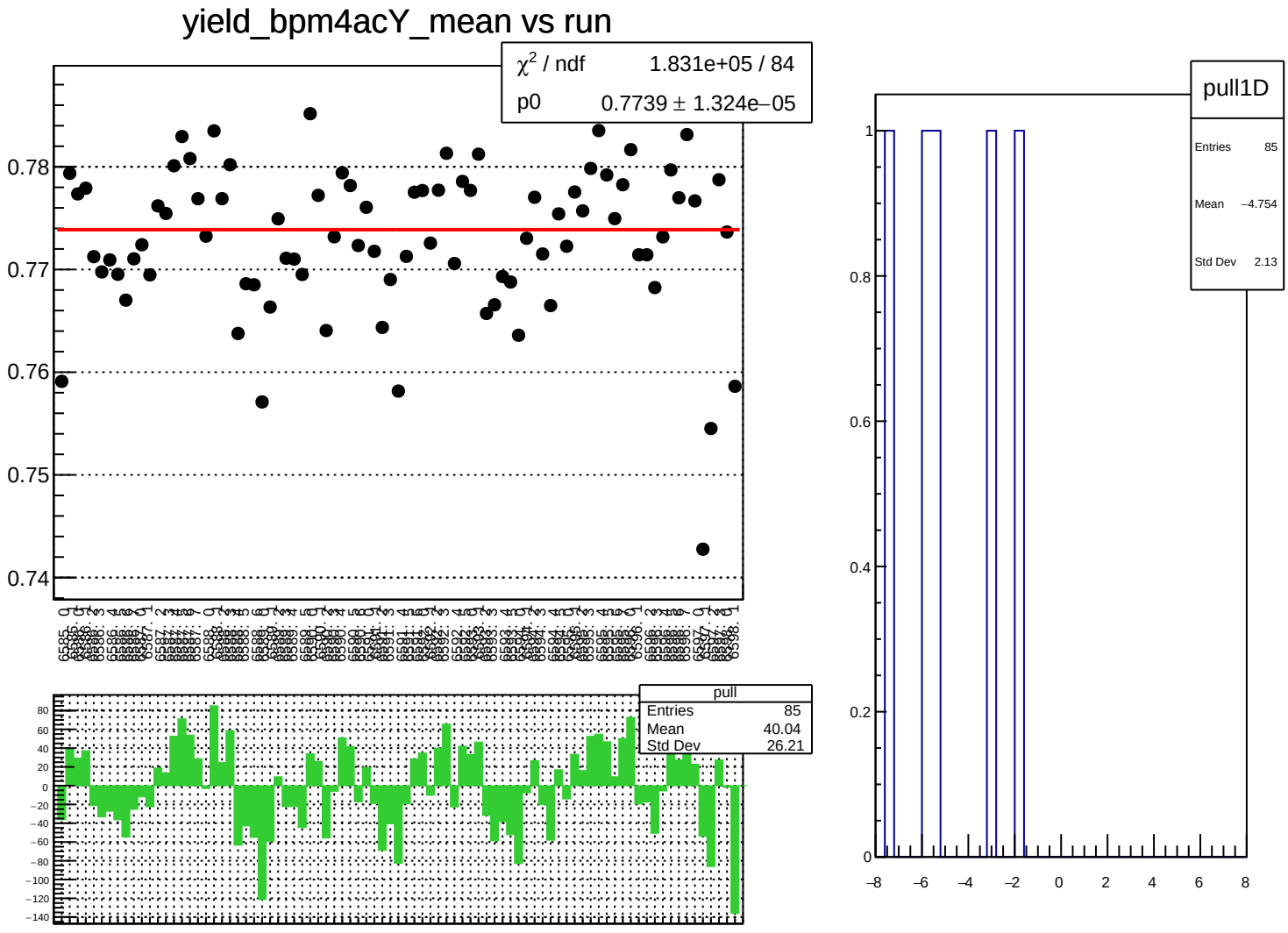

yield_bpm4eY_rms vs run
χ^2 / ndf 9.55e+04 / 84
p0 0.01088 ± 8.617e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005


yield_bpm4acX_mean vs run
χ^2 / ndf 3.072e+05 / 84
p0 −0.9222 ± 2.199e−05
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
pull
Entries 85
Mean 56.72
Std Dev 19.7
150
100
50
0
−50
−100

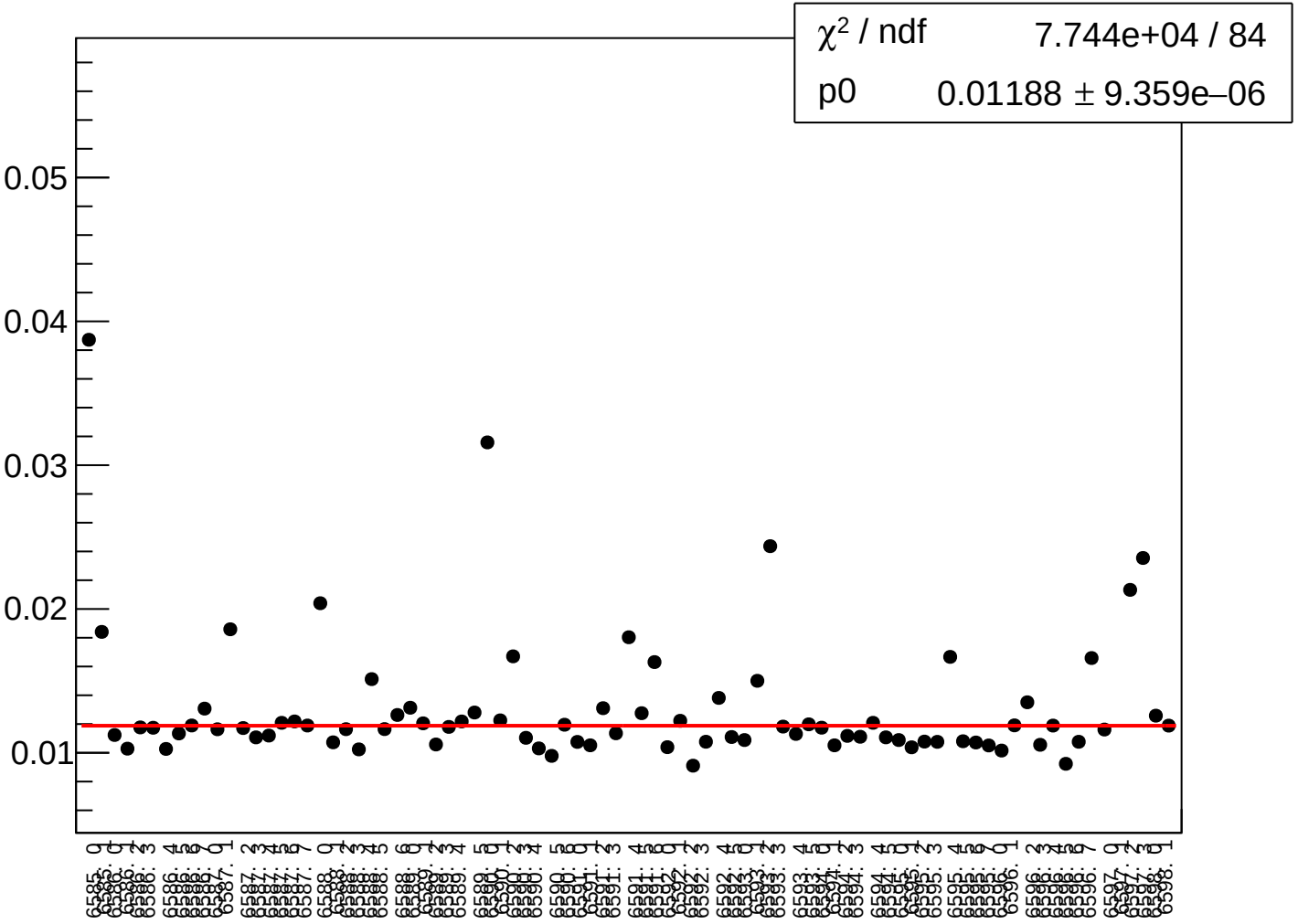

pull1D
Entries 85
Mean 0.3824
Std Dev 5.319
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

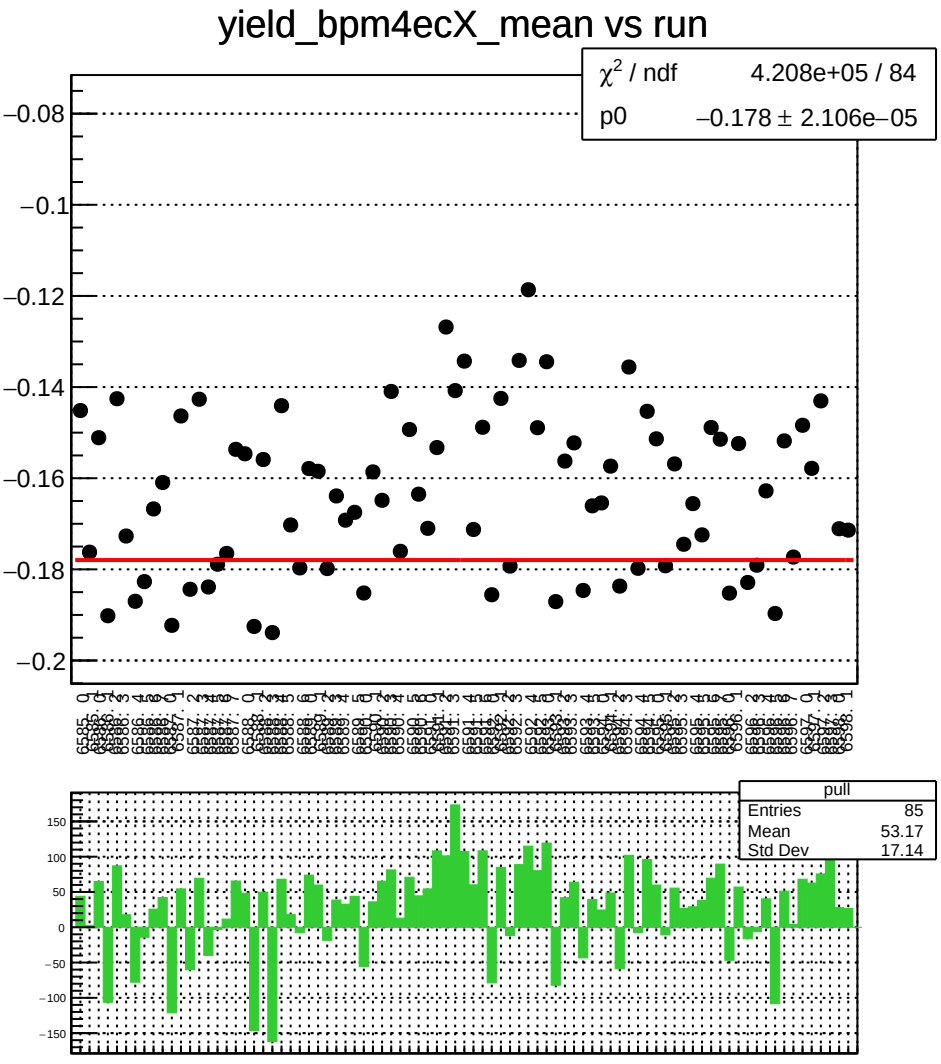
yield_bpm4acX_rms vs run

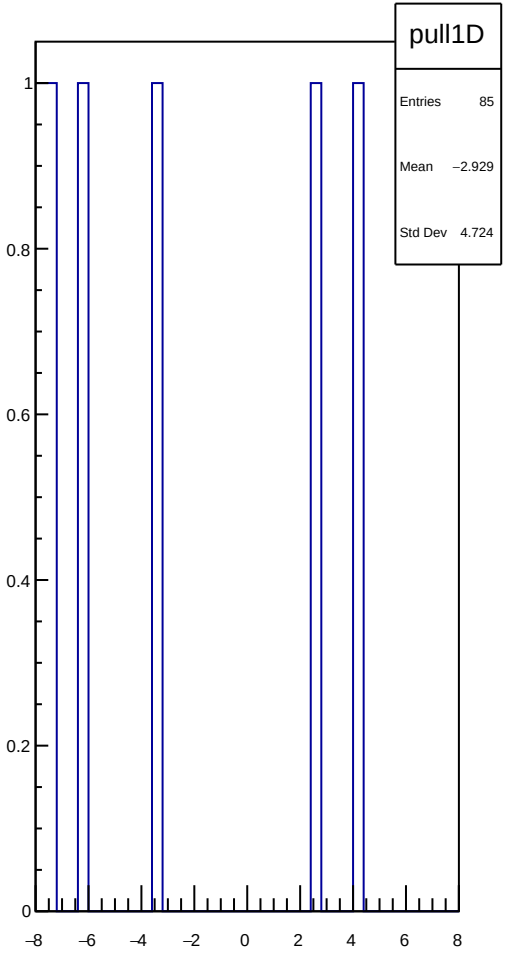


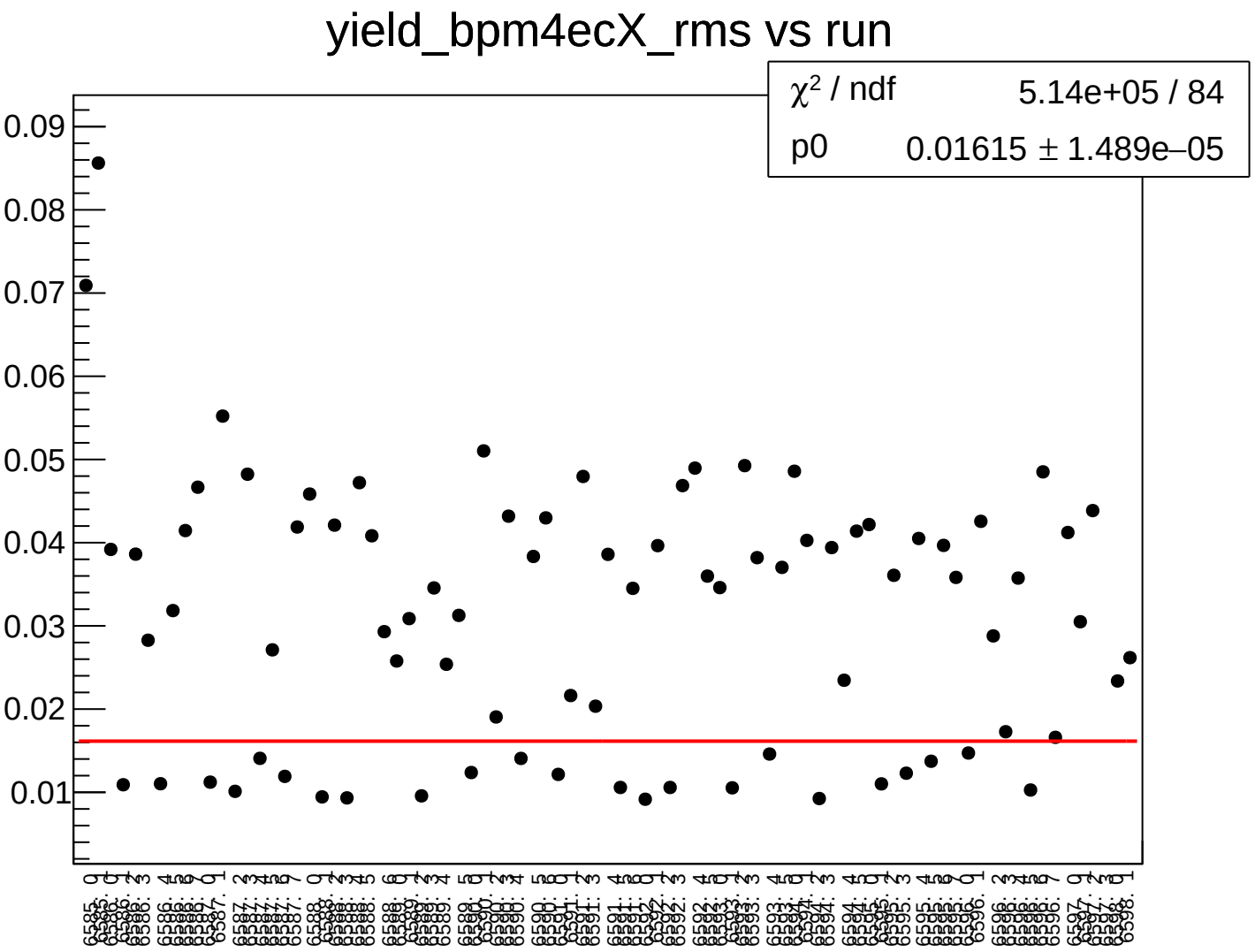

yield_bpm4acY_mean vs run
χ^2 / ndf 1.831e+05 / 84
p0 0.7739 ± 1.324e−05
0.78
0.77
0.76
0.75
0.74
pull
Entries 85
Mean 40.04
Std Dev 26.21
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
pull1D
Entries 85
Mean −4.754
Std Dev 2.13
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

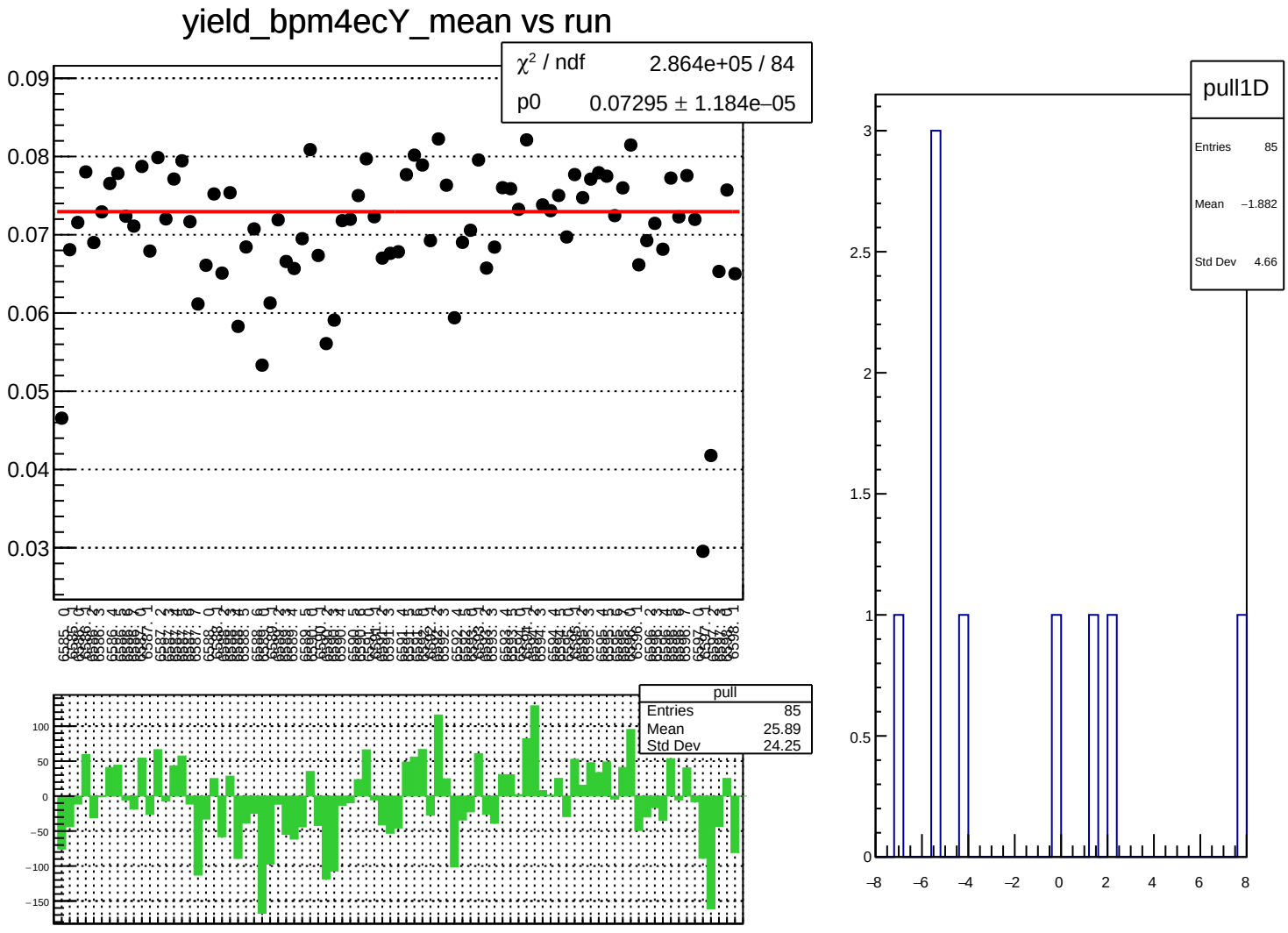
yield_bpm4acY_rms vs run



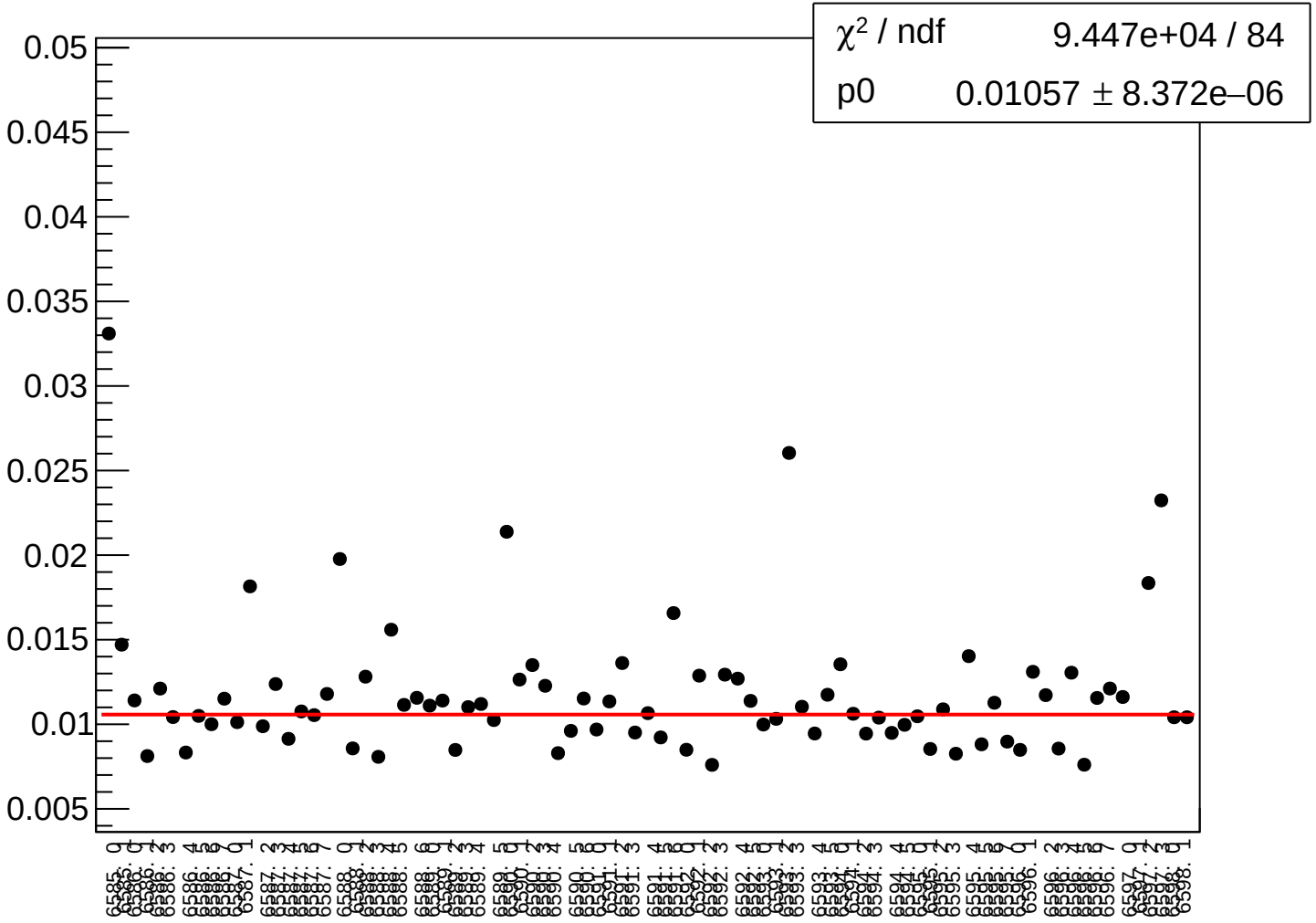

yield_bpm4ecX_mean vs run
χ² / ndf 4.208e+05 / 84
p0 −0.178 ± 2.106e−05
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
pull
Entries 85
Mean 53.17
Std Dev 17.14
150
100
50
0
−50
−100
−150

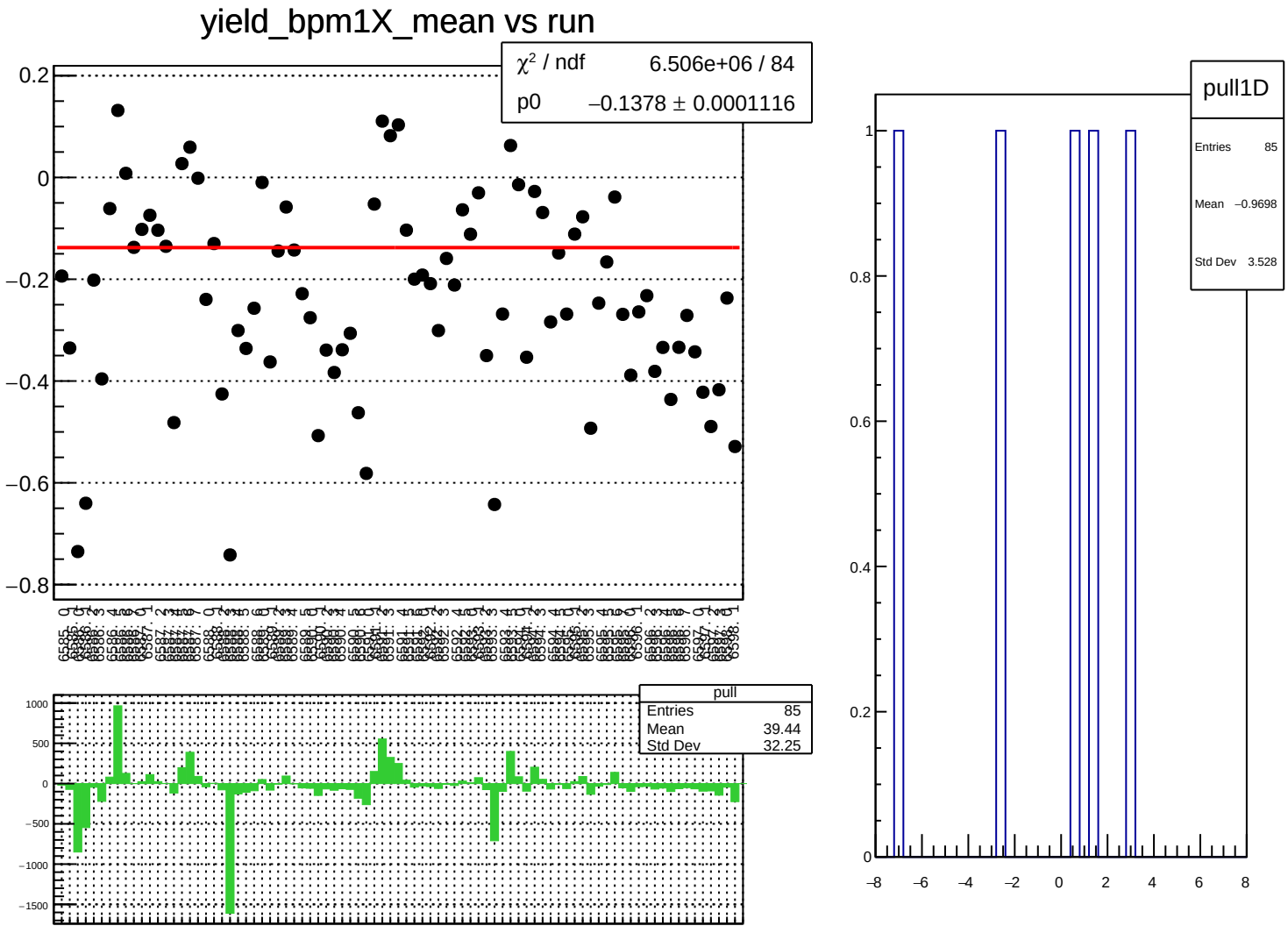

pull1D
Entries 85
Mean −2.929
Std Dev 4.724
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

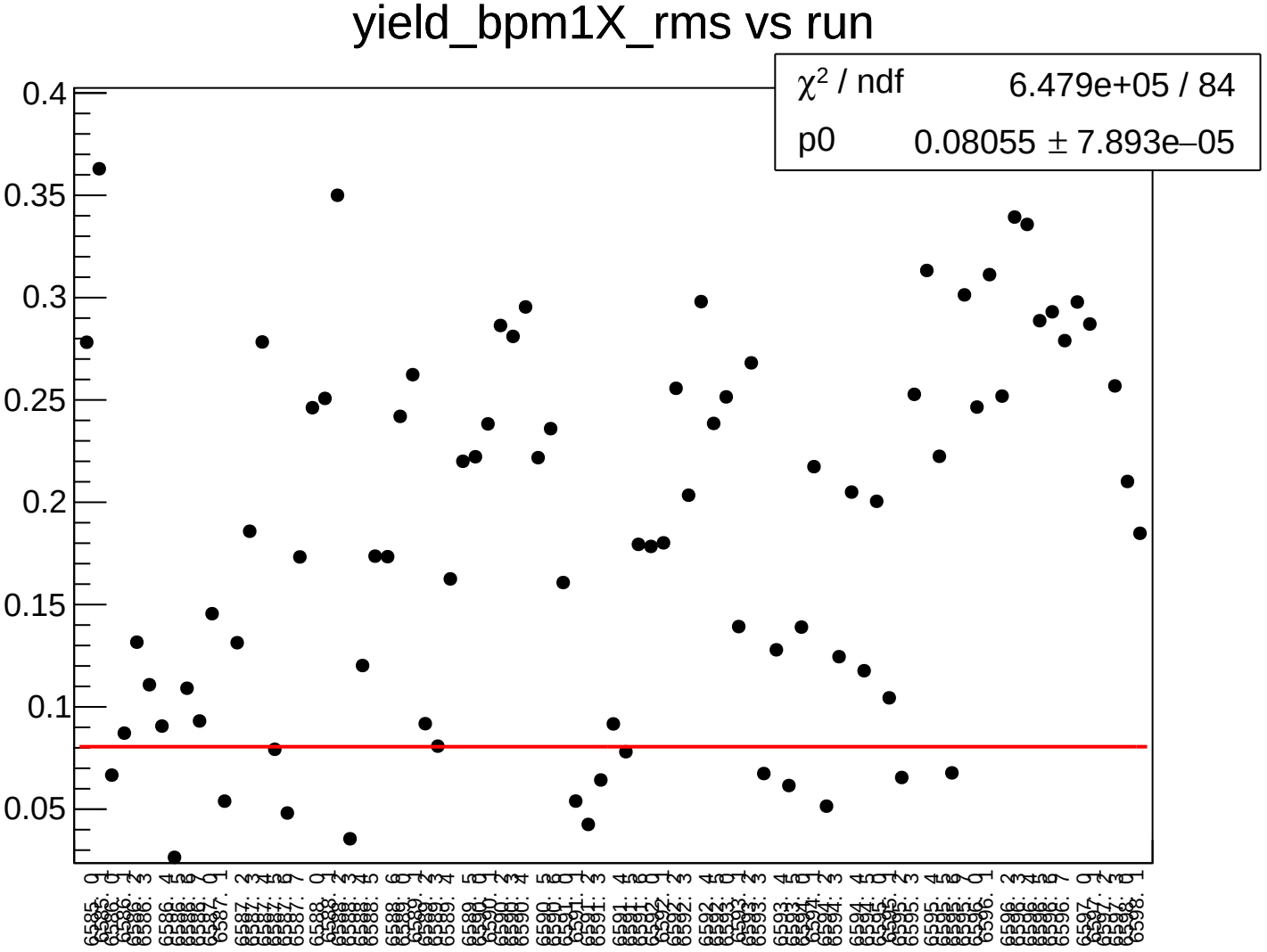

yield_bpm4ecX_rms vs run
χ^2 / ndf 5.14e+05 / 84
p0 0.01615 ± 1.489e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

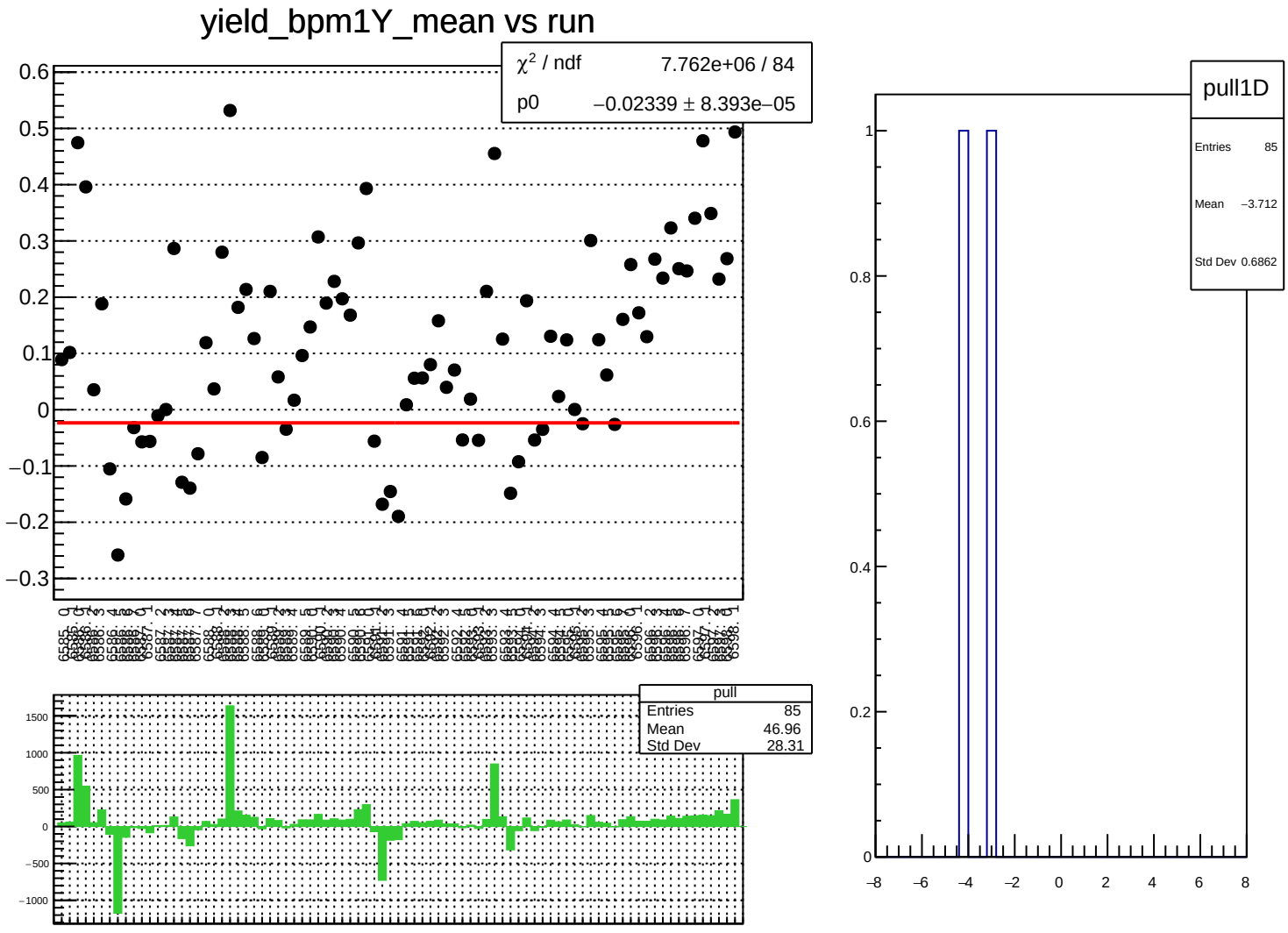

yield_bpm4ecY_mean vs run
χ² / ndf 2.864e+05 / 84
p0 0.07295 ± 1.184e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
pull
Entries 85
Mean 25.89
Std Dev 24.25
100
50
0
−50
−100
−150
pull1D
Entries 85
Mean −1.882
Std Dev 4.66
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

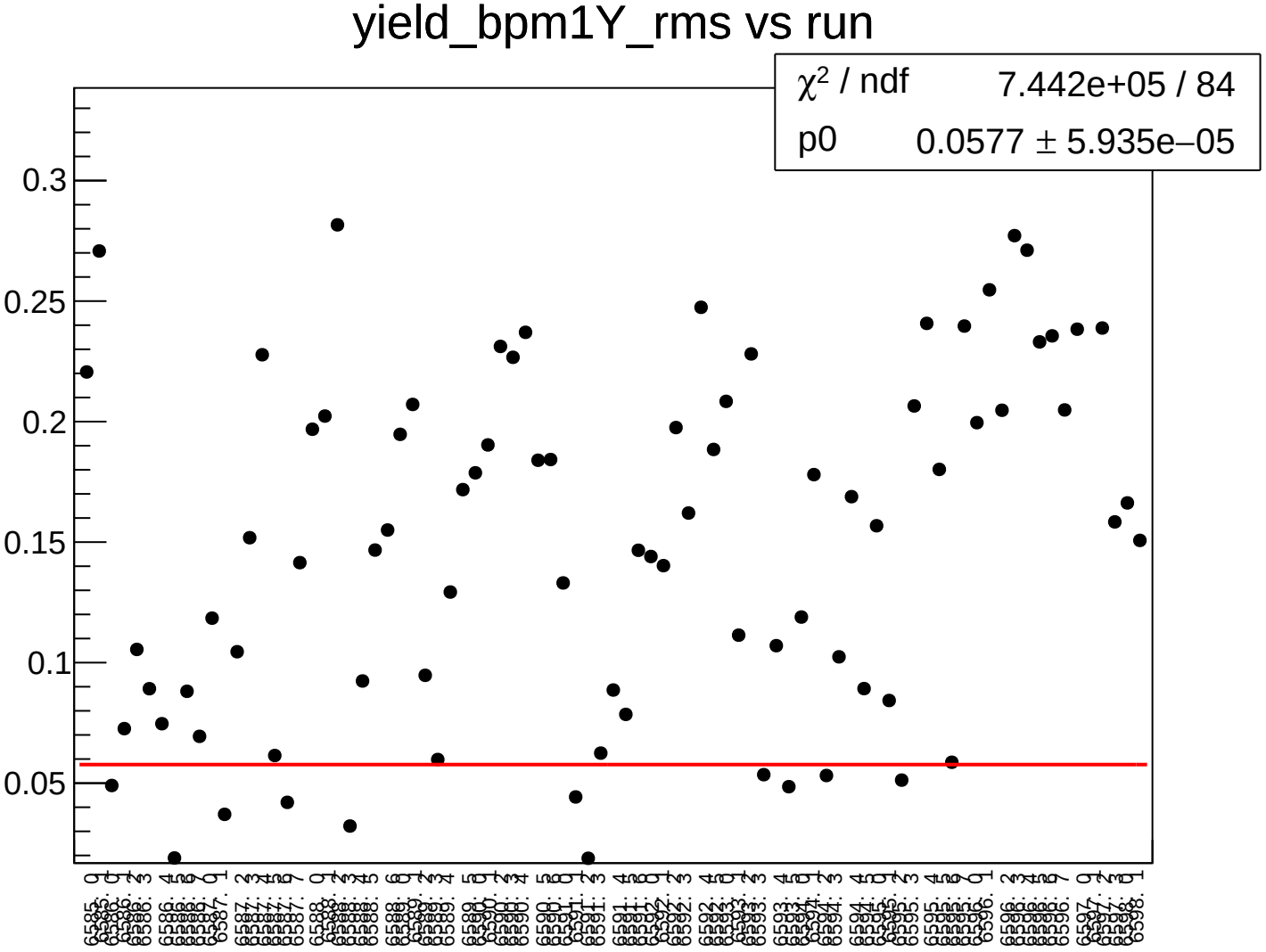
yield_bpm4ecY_rms vs run

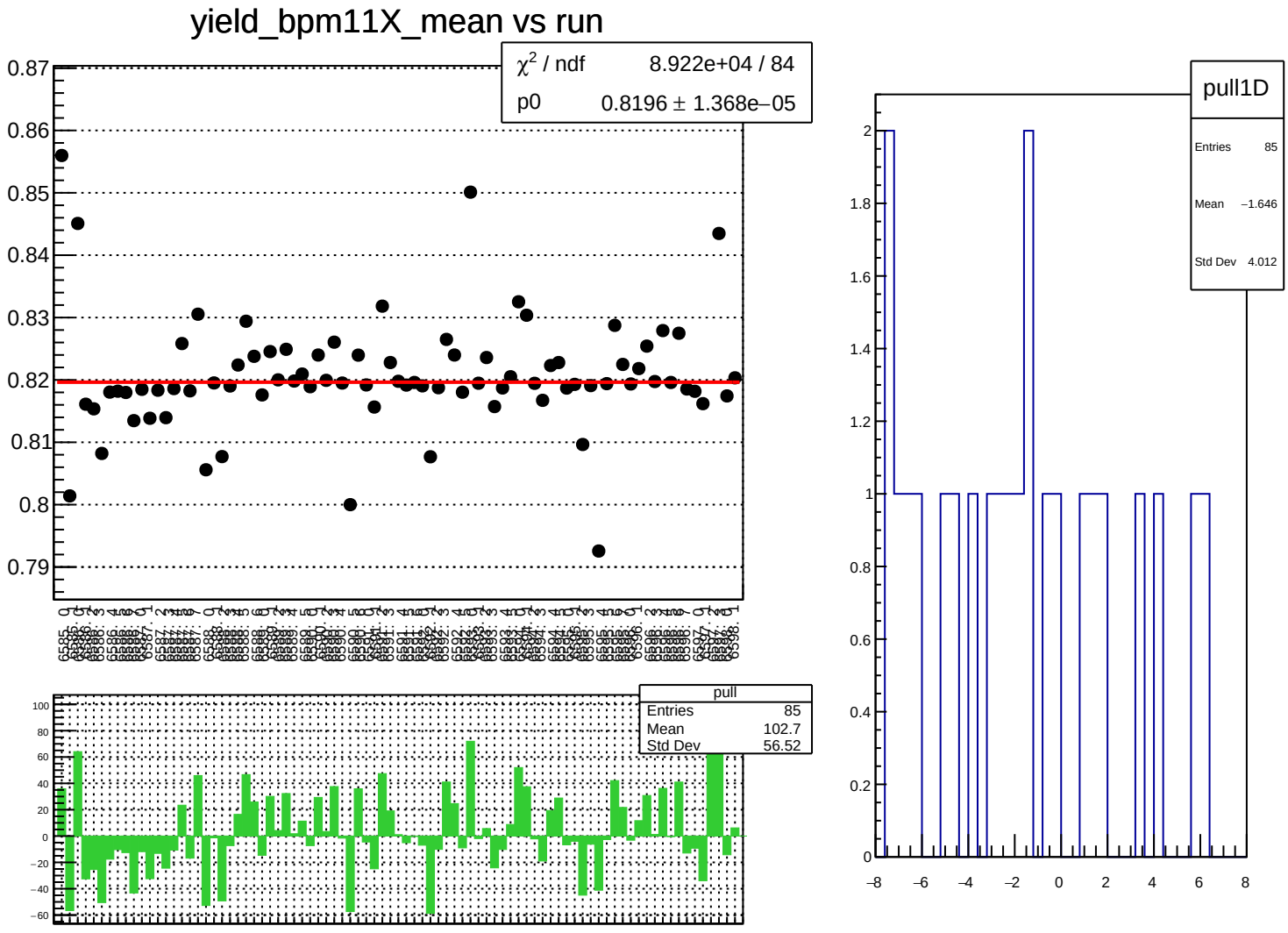



yield_bpm1X_mean vs run
χ² / ndf 6.506e+06 / 84
p0 −0.1378 ± 0.0001116
pull
Entries 85
Mean 39.44
Std Dev 32.25
pull1D
Entries 85
Mean −0.9698
Std Dev 3.528

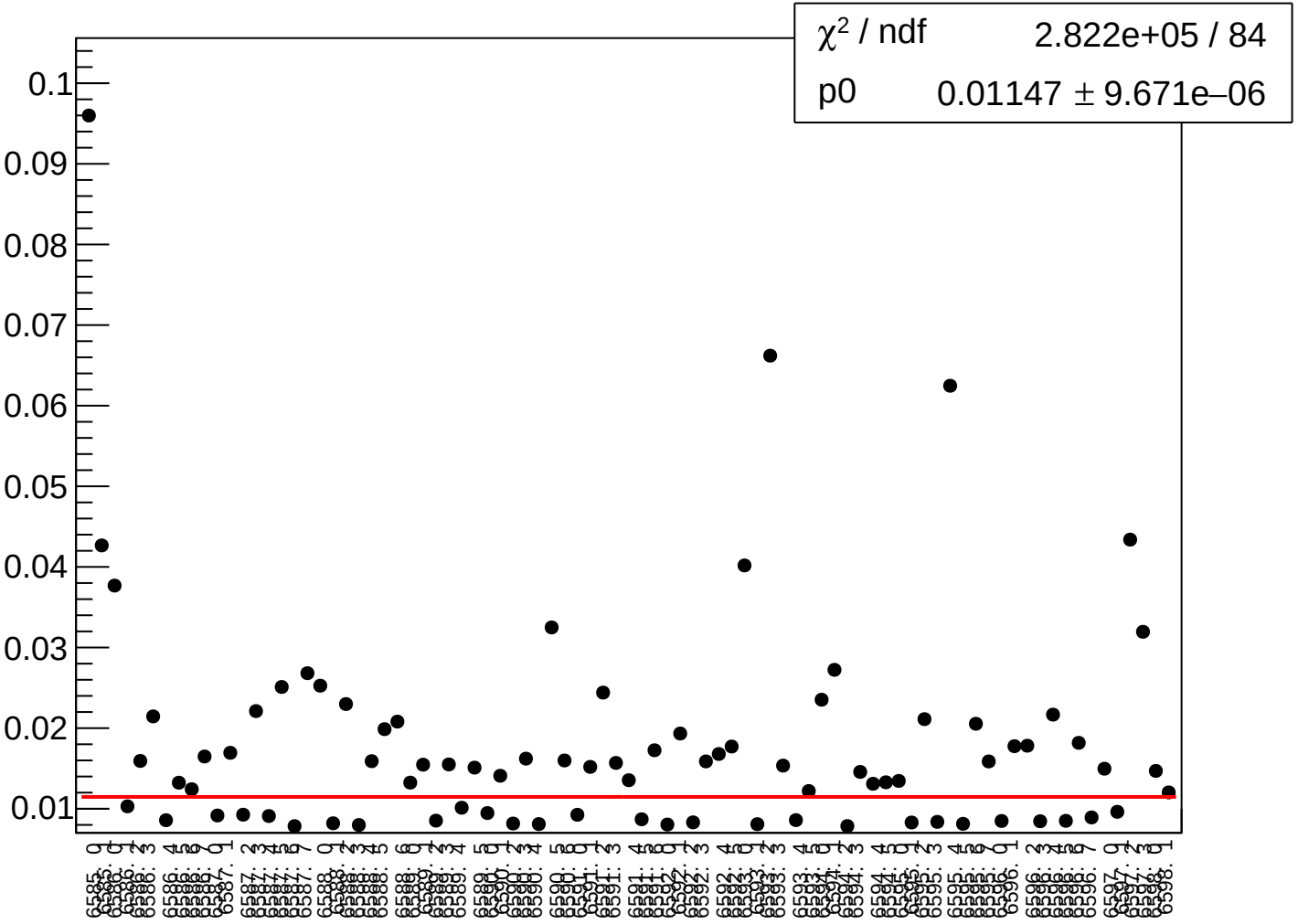

yield_bpm1X_rms vs run
χ² / ndf 6.479e+05 / 84
p0 0.08055 ± 7.893e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

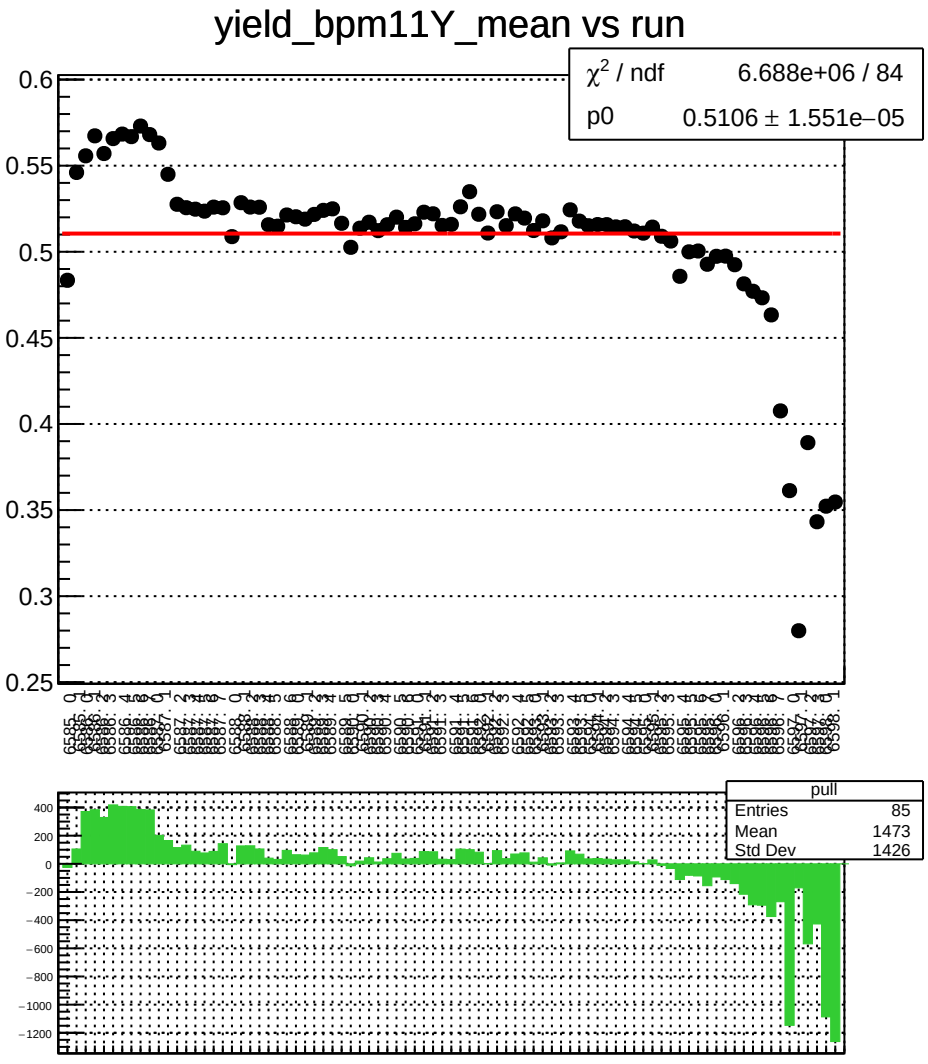

yield_bpm1Y_mean vs run
χ² / ndf 7.762e+06 / 84
p0 −0.02339 ± 8.393e−05
pull
Entries 85
Mean 46.96
Std Dev 28.31
pull1D
Entries 85
Mean −3.712
Std Dev 0.6862

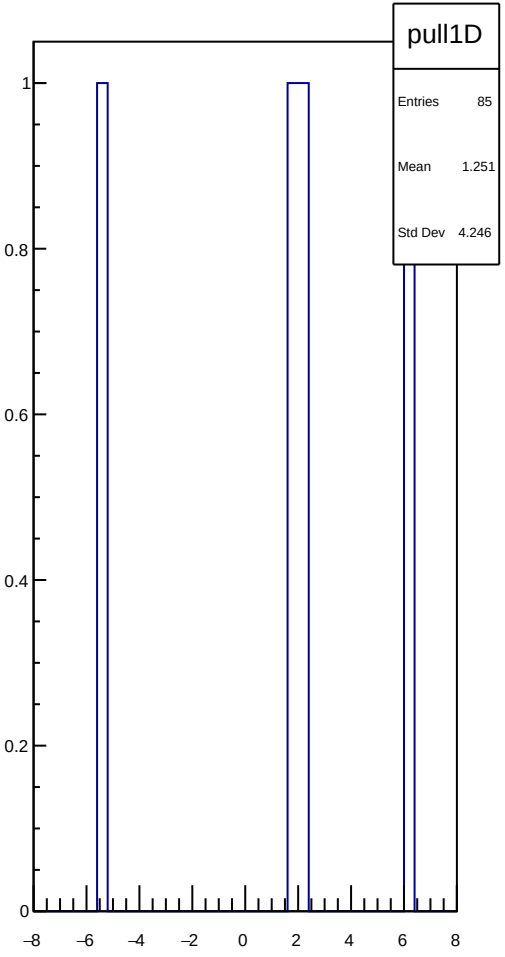

yield_bpm1Y_rms vs run
χ² / ndf 7.442e+05 / 84
p0 0.0577 ± 5.935e−05
0.3
0.25
0.2
0.15
0.1
0.05


yield_bpm11X_mean vs run
χ² / ndf 8.922e+04 / 84
p0 0.8196 ± 1.368e−05
pull
Entries 85
Mean 102.7
Std Dev 56.52
pull1D
Entries 85
Mean −1.646
Std Dev 4.012

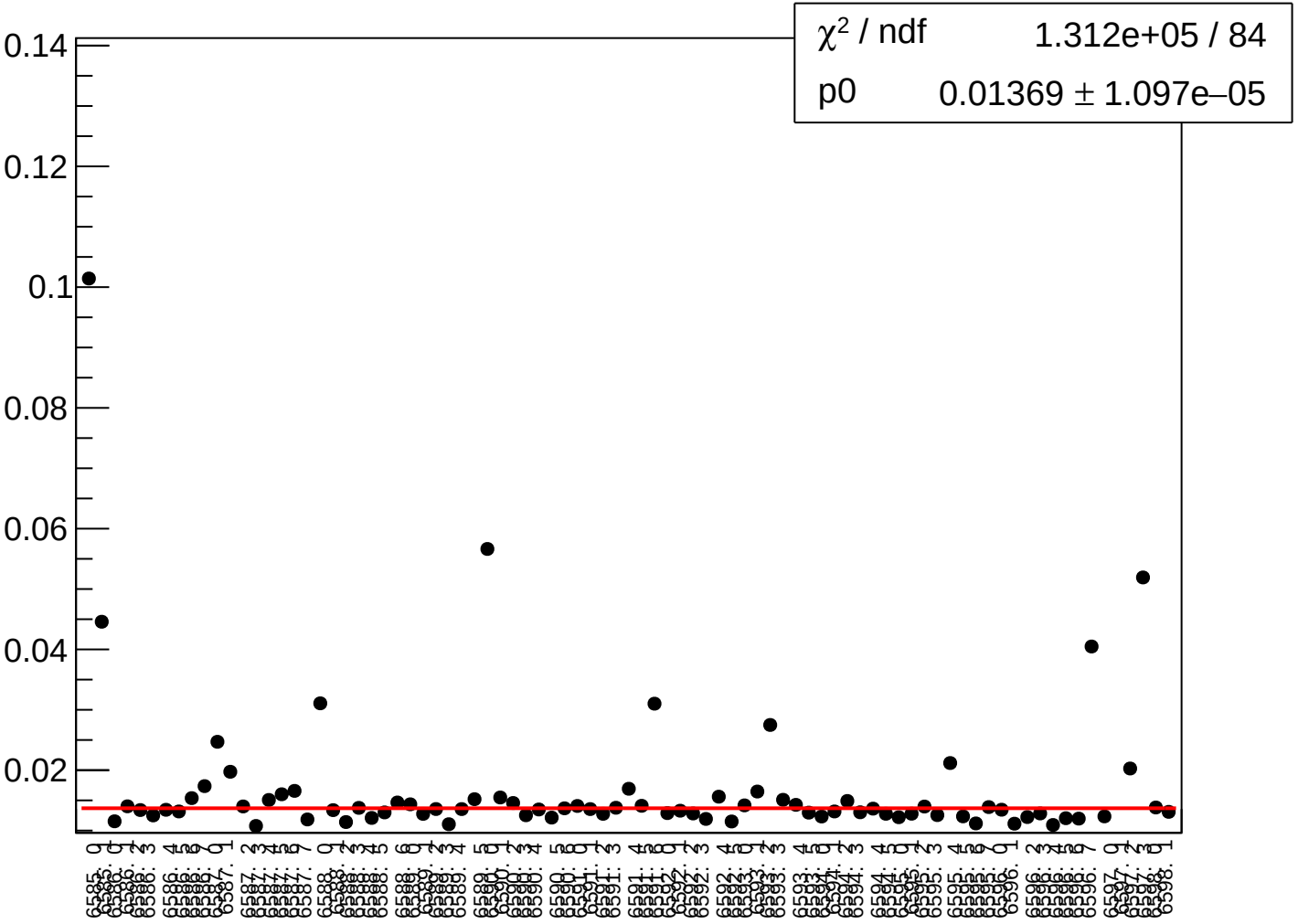
yield_bpm11X_rms vs run

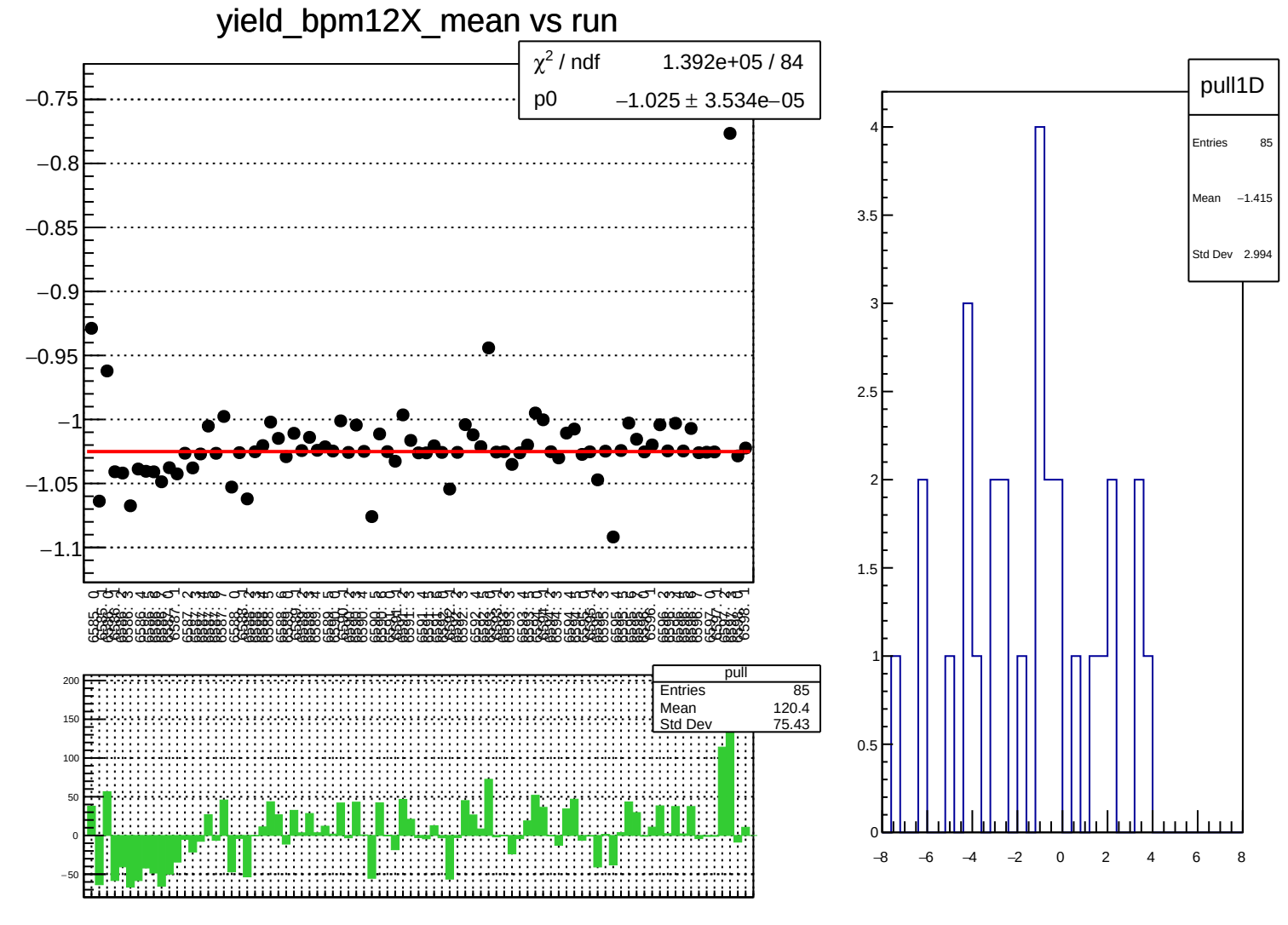


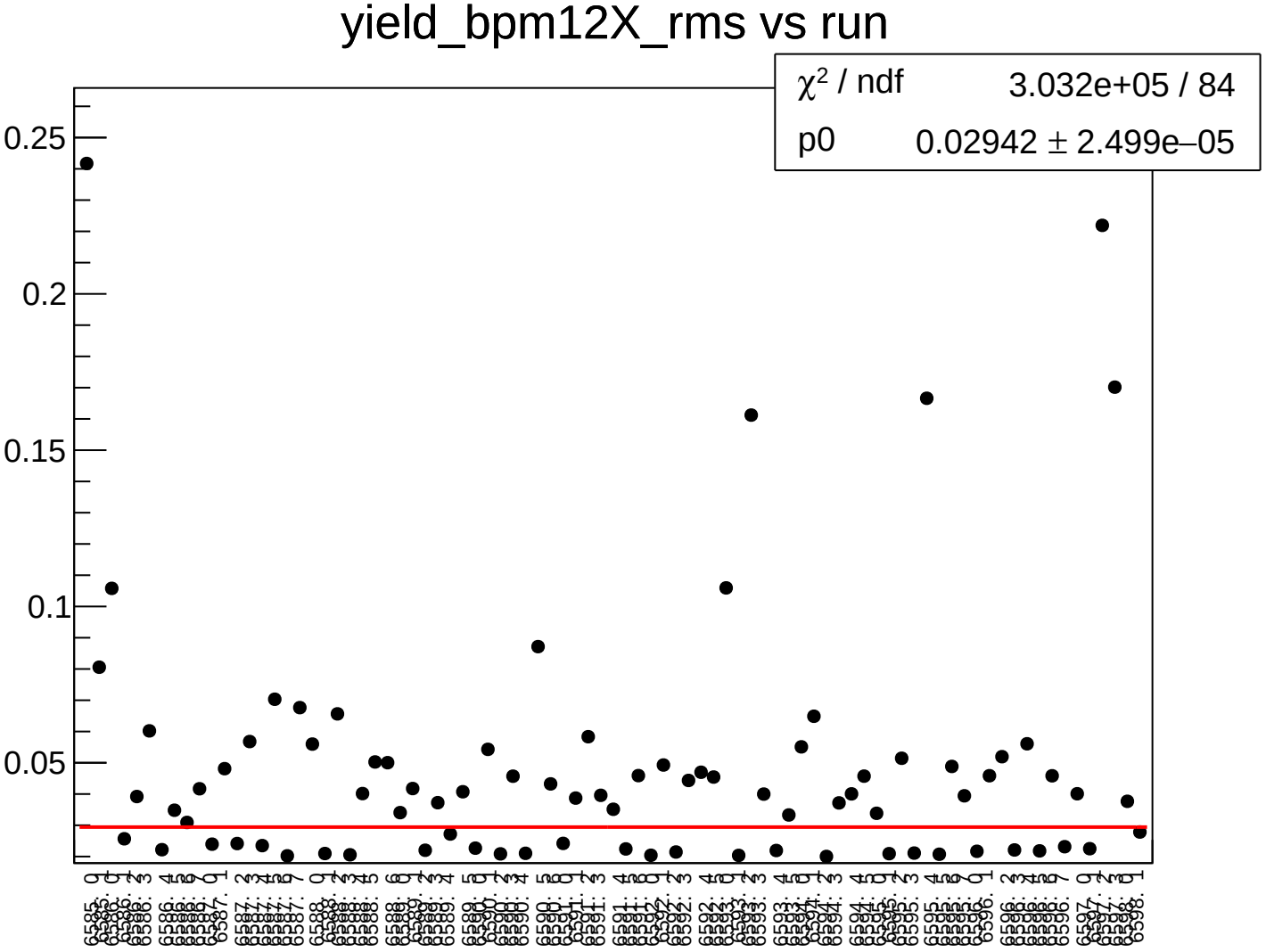

yield_bpm11Y_mean vs run
χ² / ndf 6.688e+06 / 84
p0 0.5106 ± 1.551e−05
pull
Entries 85
Mean 1473
Std Dev 1426

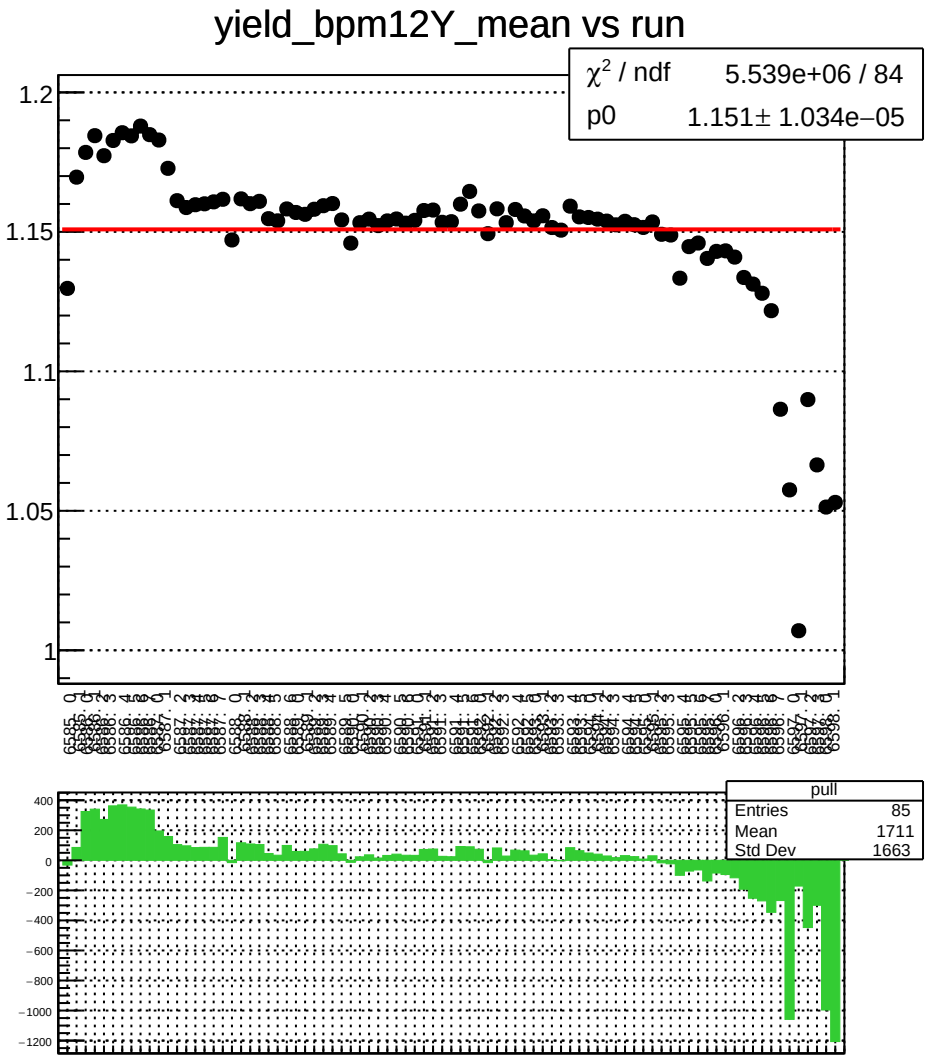

pull1D
Entries 85
Mean 1.251
Std Dev 4.246

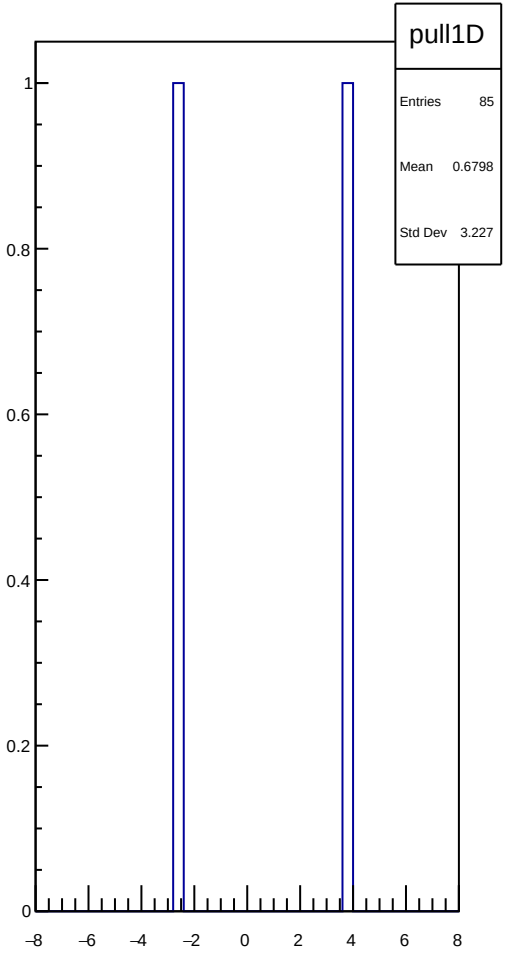
yield_bpm11Y_rms vs run



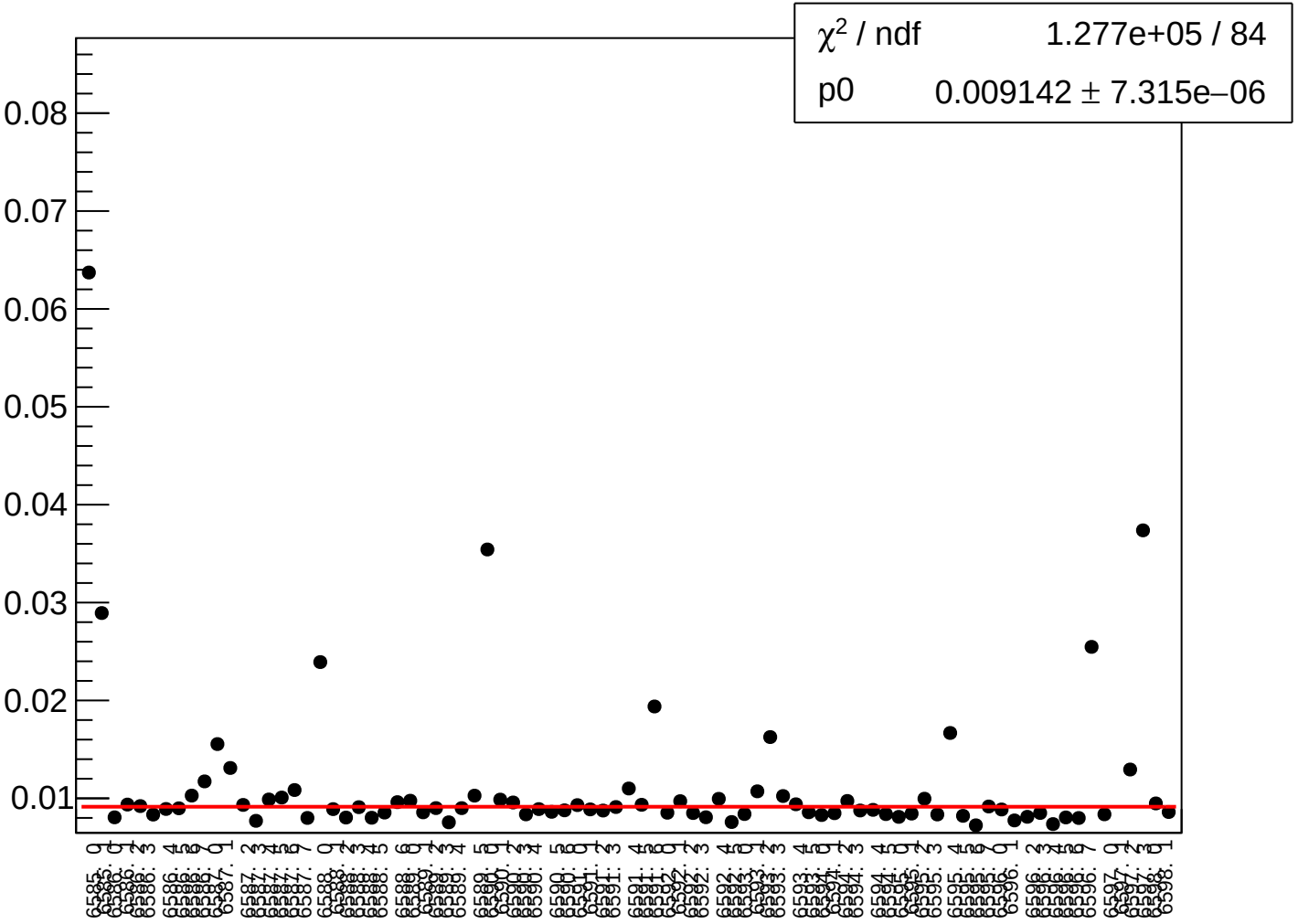

yield_bpm12X_mean vs run
χ^2 / ndf 1.392e+05 / 84
p0 −1.025 ± 3.534e−05
pull
Entries 85
Mean 120.4
Std Dev 75.43
pull1D
Entries 85
Mean −1.415
Std Dev 2.994

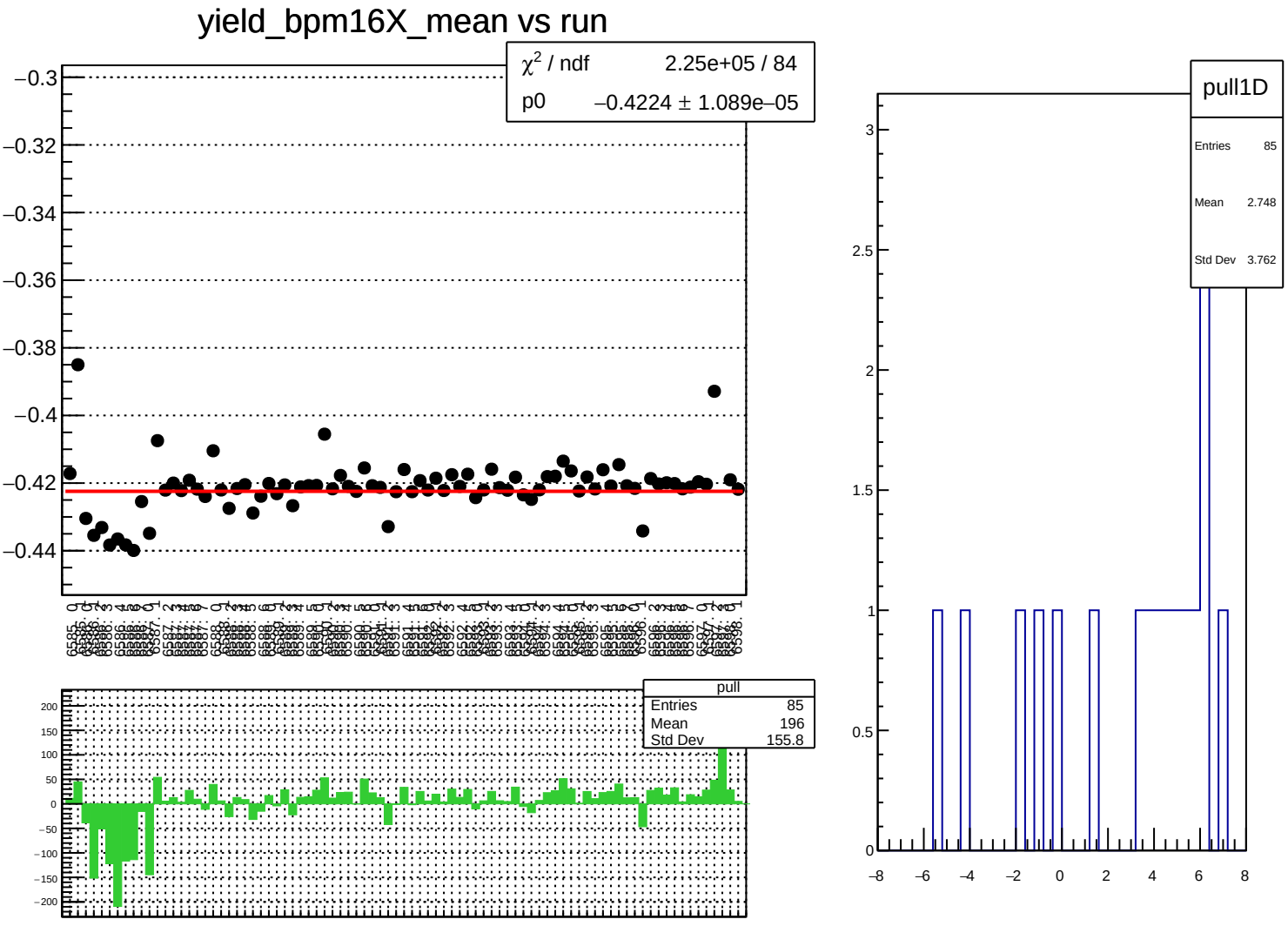

yield_bpm12X_rms vs run
χ^2 / ndf 3.032e+05 / 84
p0 0.02942 ± 2.499e–05
0.25
0.2
0.15
0.1
0.05

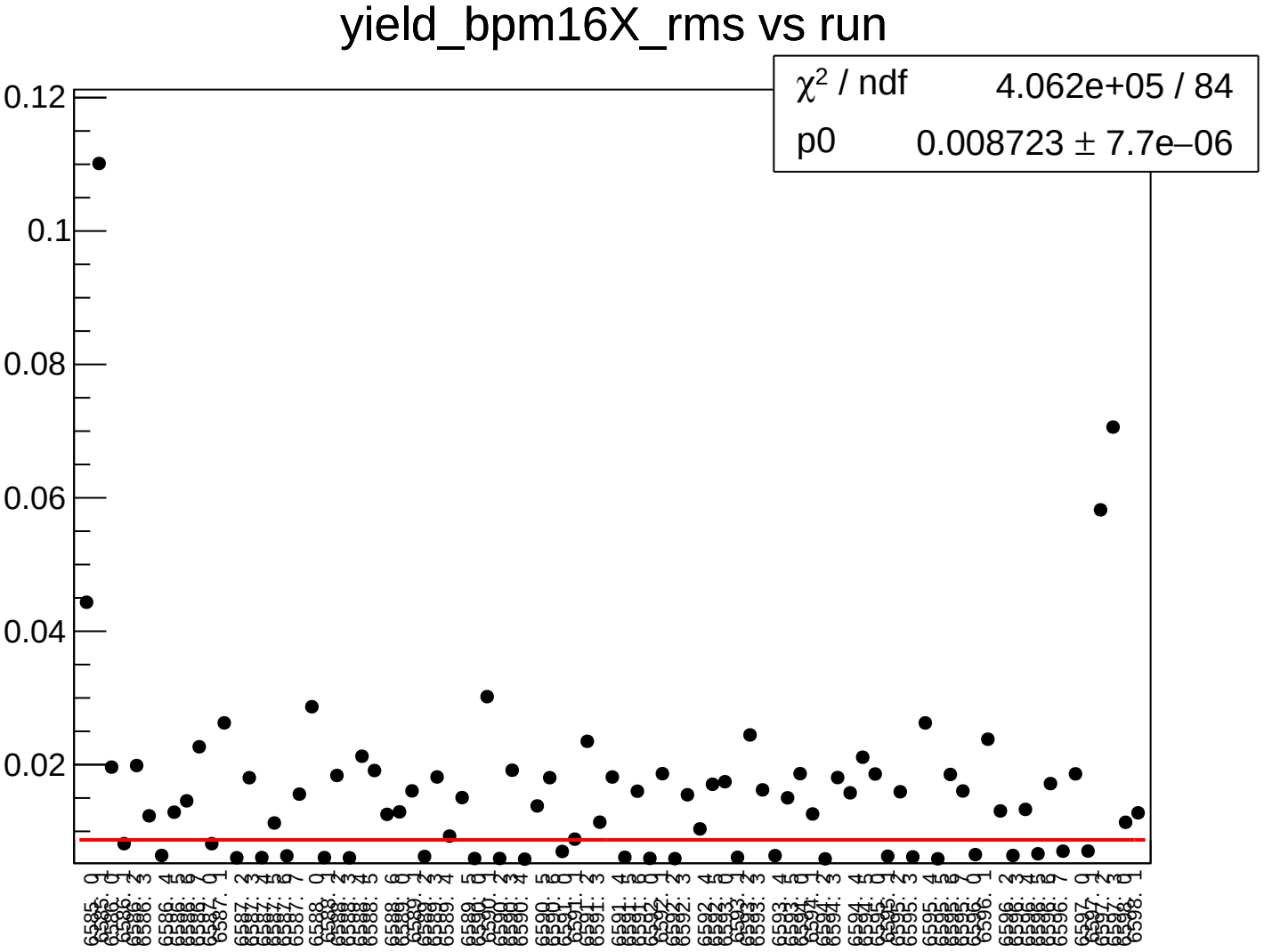

yield_bpm12Y_mean vs run
χ² / ndf 5.539e+06 / 84
p0 1.151± 1.034e−05
1.2
1.15
1.1
1.05
1
pull
Entries 85
Mean 1711
Std Dev 1663
400
200
0
−200
−400
−600
−800
−1000
−1200

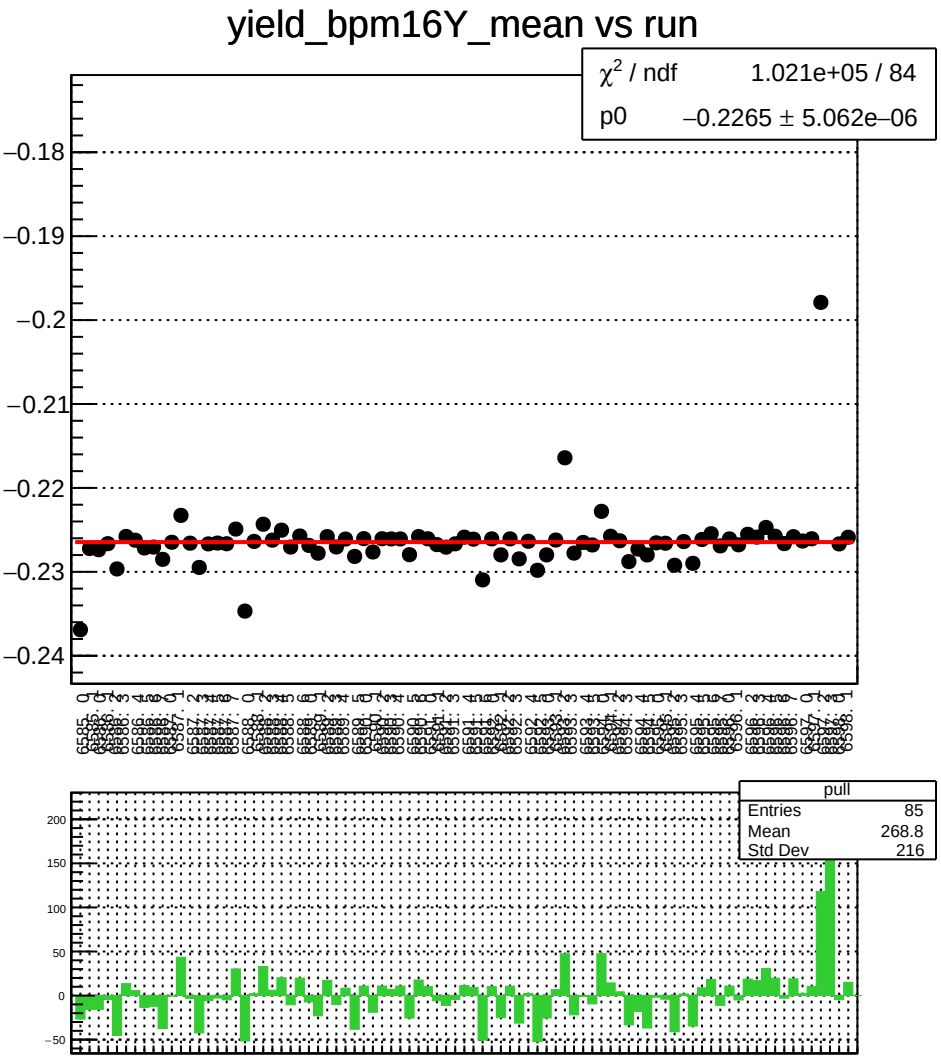

pull1D
Entries 85
Mean 0.6798
Std Dev 3.227
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

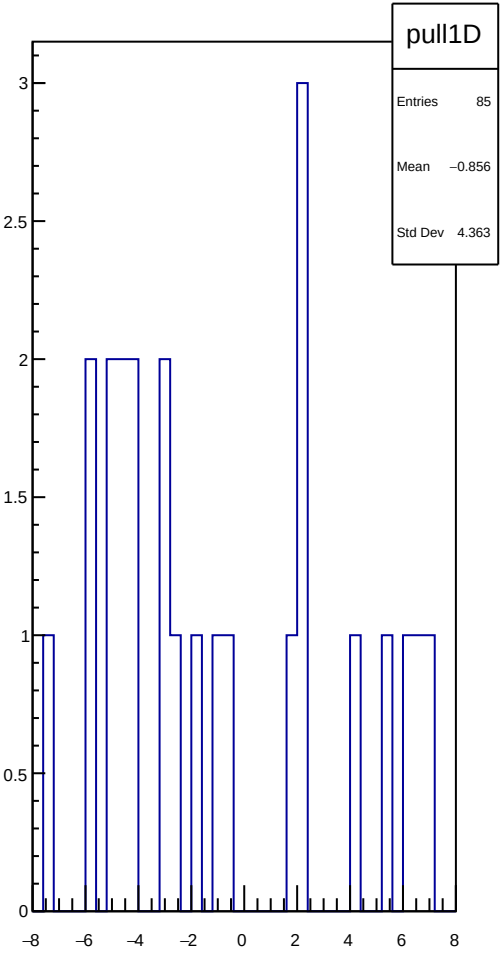
yield_bpm12Y_rms vs run



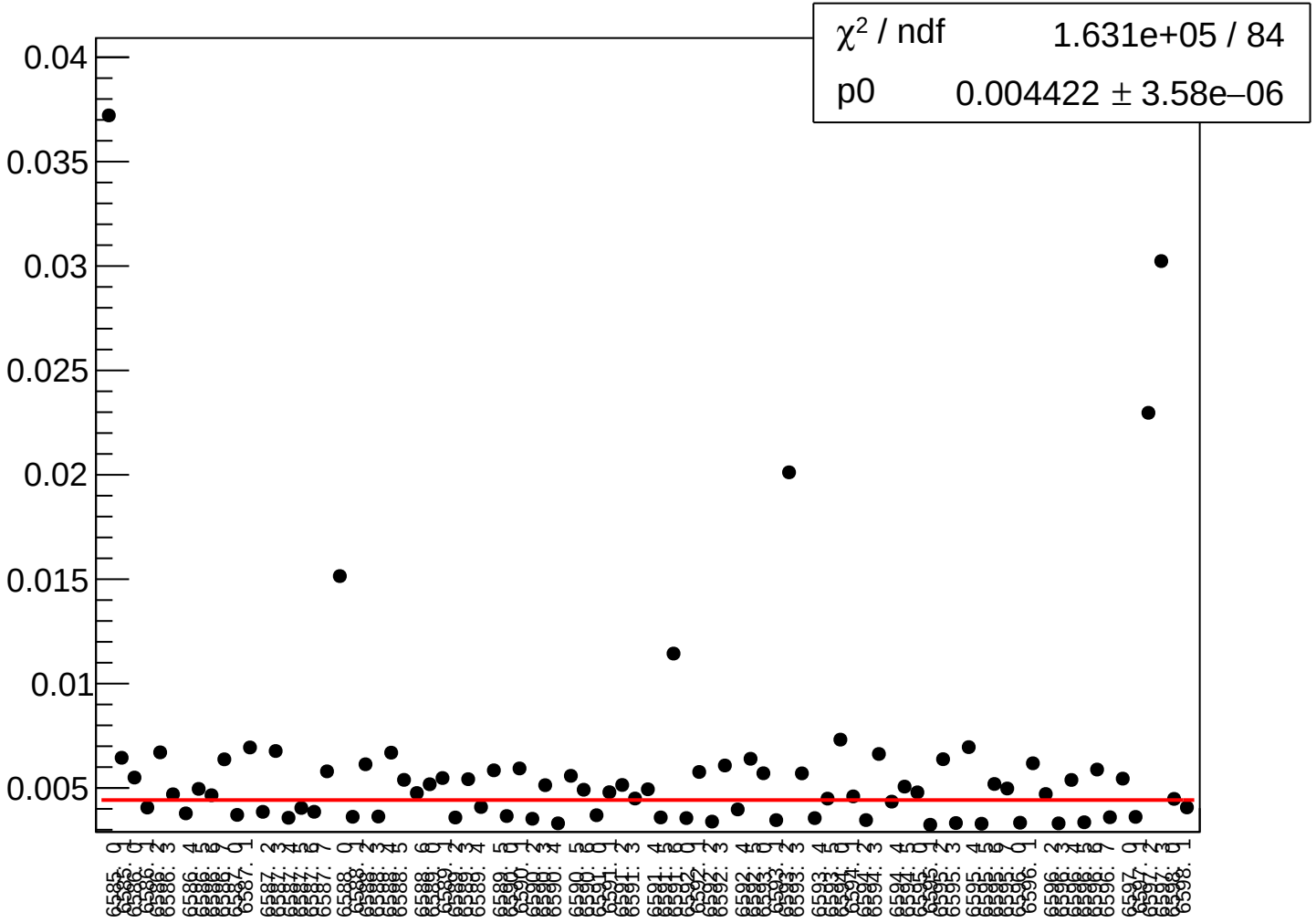

yield_bpm16X_mean vs run
χ² / ndf 2.25e+05 / 84
p0 −0.4224 ± 1.089e−05
pull
Entries 85
Mean 196
Std Dev 155.8
pull1D
Entries 85
Mean 2.748
Std Dev 3.762

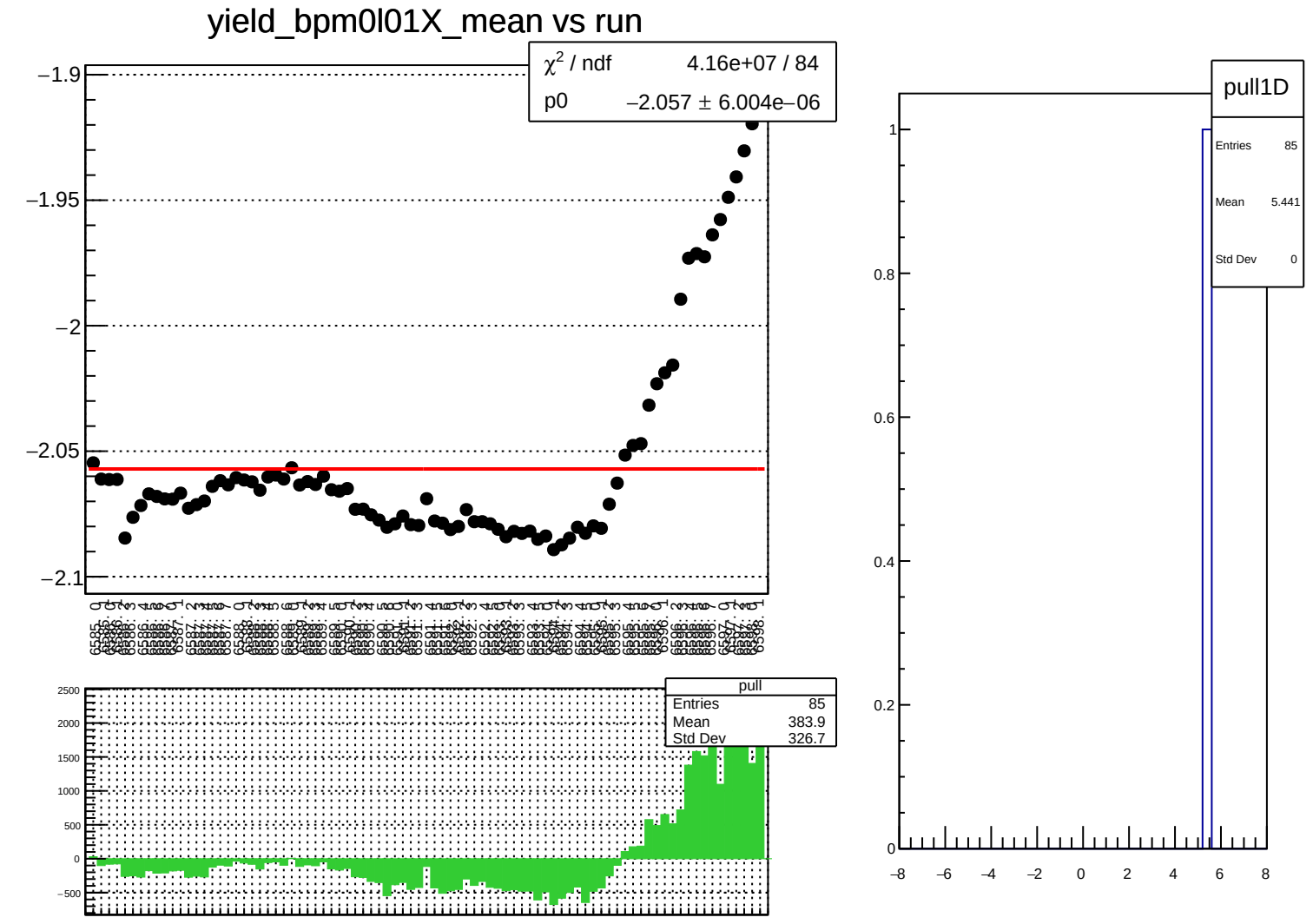

yield_bpm16X_rms vs run
χ^2 / ndf 4.062e+05 / 84
p0 0.008723 ± 7.7e–06
0.12
0.1
0.08
0.06
0.04
0.02


yield_bpm16Y_mean vs run
χ² / ndf 1.021e+05 / 84
p0 −0.2265 ± 5.062e−06
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
−0.24
pull
Entries 85
Mean 268.8
Std Dev 216
200
150
100
50
0
−50

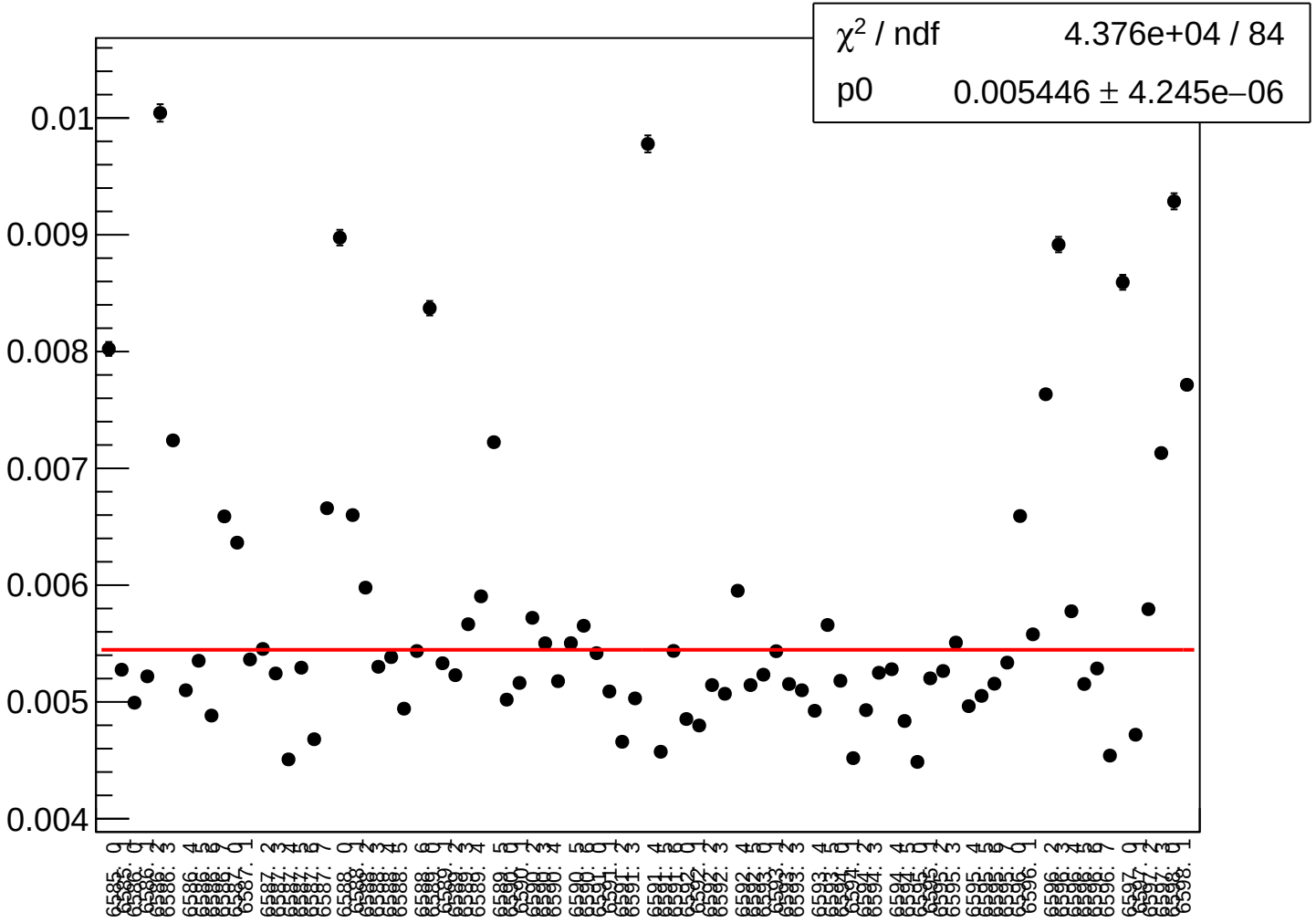

pull1D
Entries 85
Mean −0.856
Std Dev 4.363
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

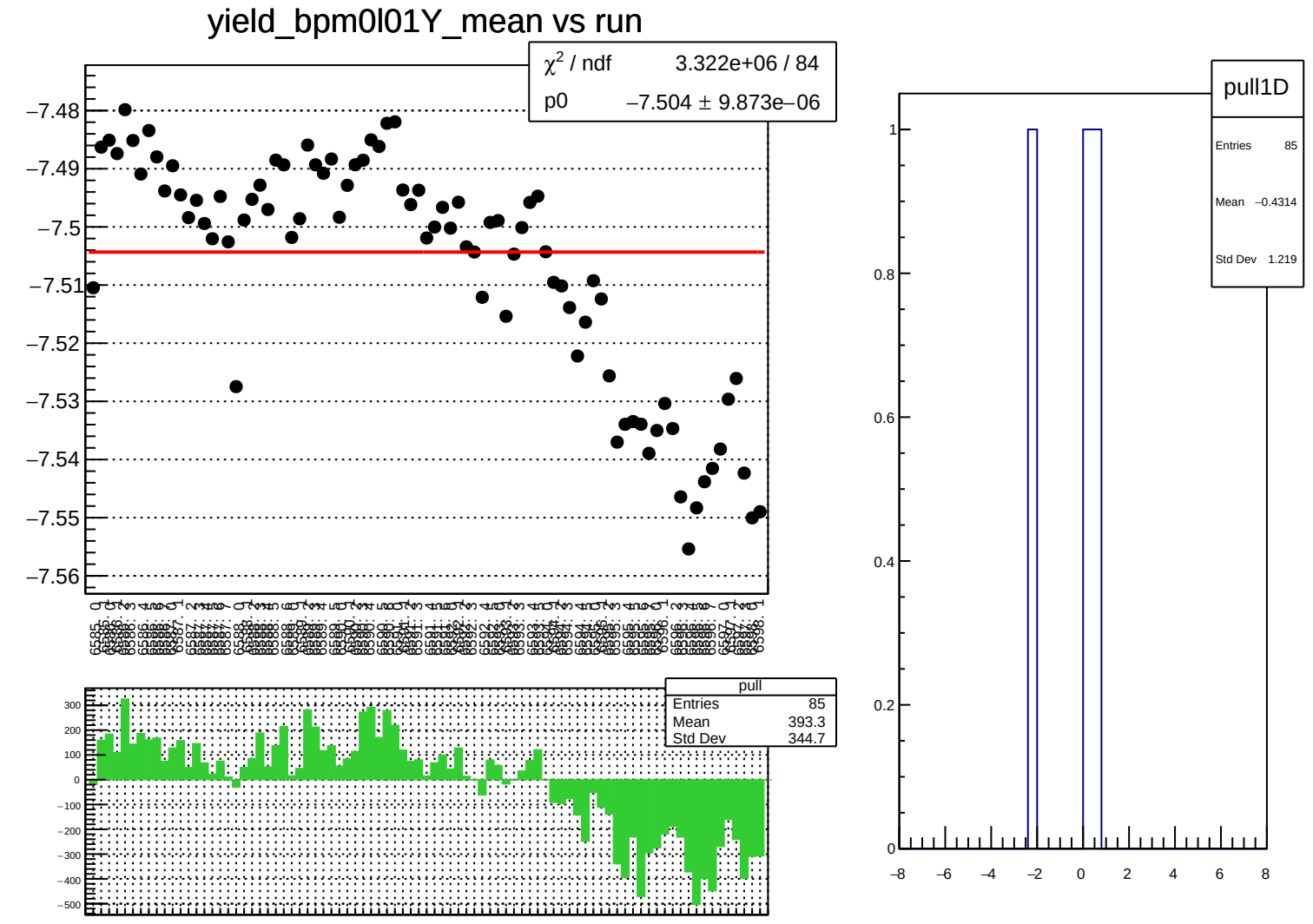
yield_bpm16Y_rms vs run



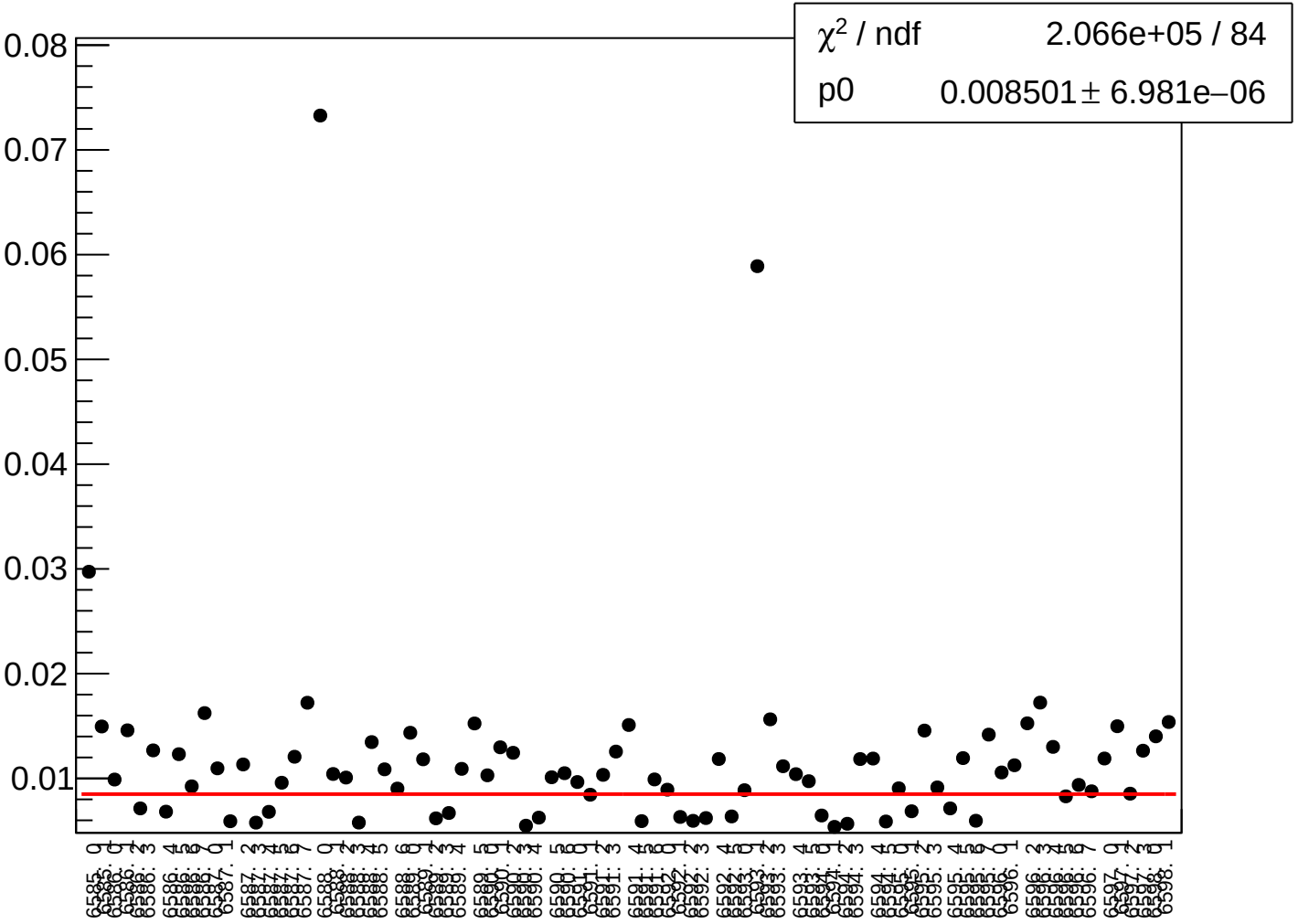

yield_bpm0l01X_mean vs run
χ^2 / ndf 4.16e+07 / 84
p0 −2.057 ± 6.004e−06
−1.9
−1.95
−2
−2.05
−2.1
pull
Entries 85
Mean 383.9
Std Dev 326.7
2500
2000
1500
1000
500
0
−500
pull1D
Entries 85
Mean 5.441
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

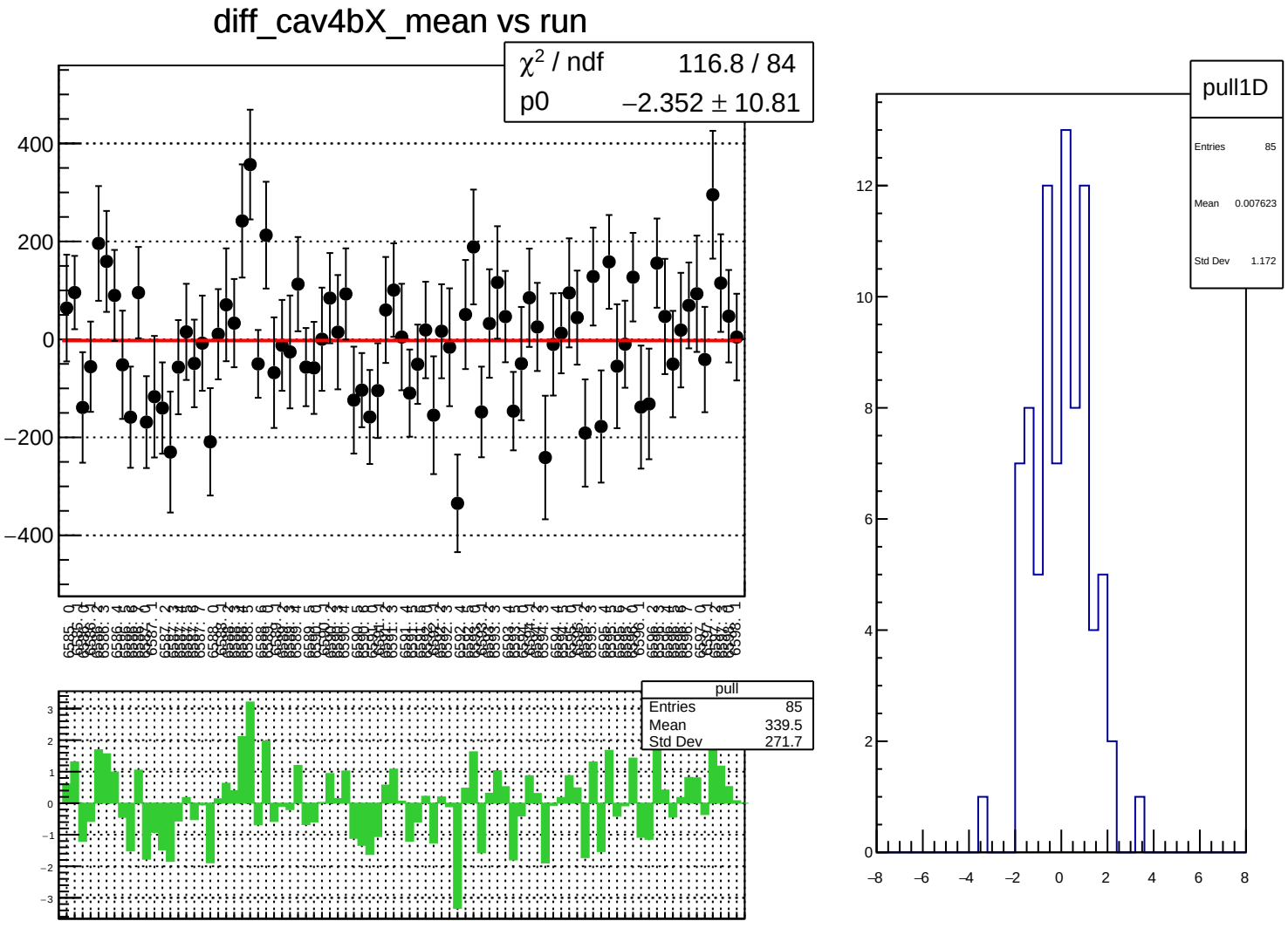
yield_bpm0l01X_rms vs run



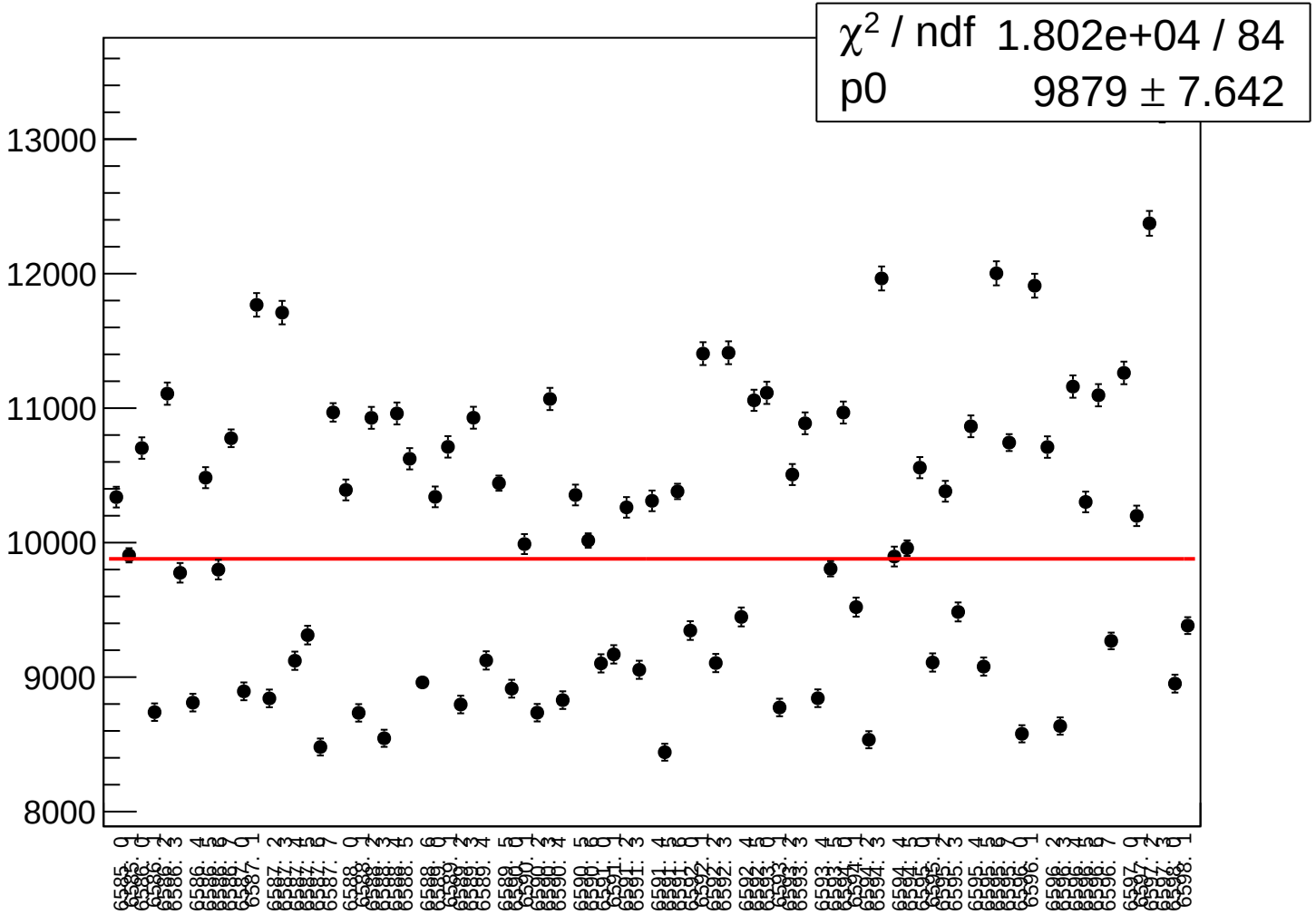

yield_bpm0l01Y_mean vs run
χ² / ndf 3.322e+06 / 84
p0 −7.504 ± 9.873e−06
−7.48
−7.49
−7.5
−7.51
−7.52
−7.53
−7.54
−7.55
−7.56
pull
Entries 85
Mean 393.3
Std Dev 344.7
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 85
Mean −0.4314
Std Dev 1.219
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

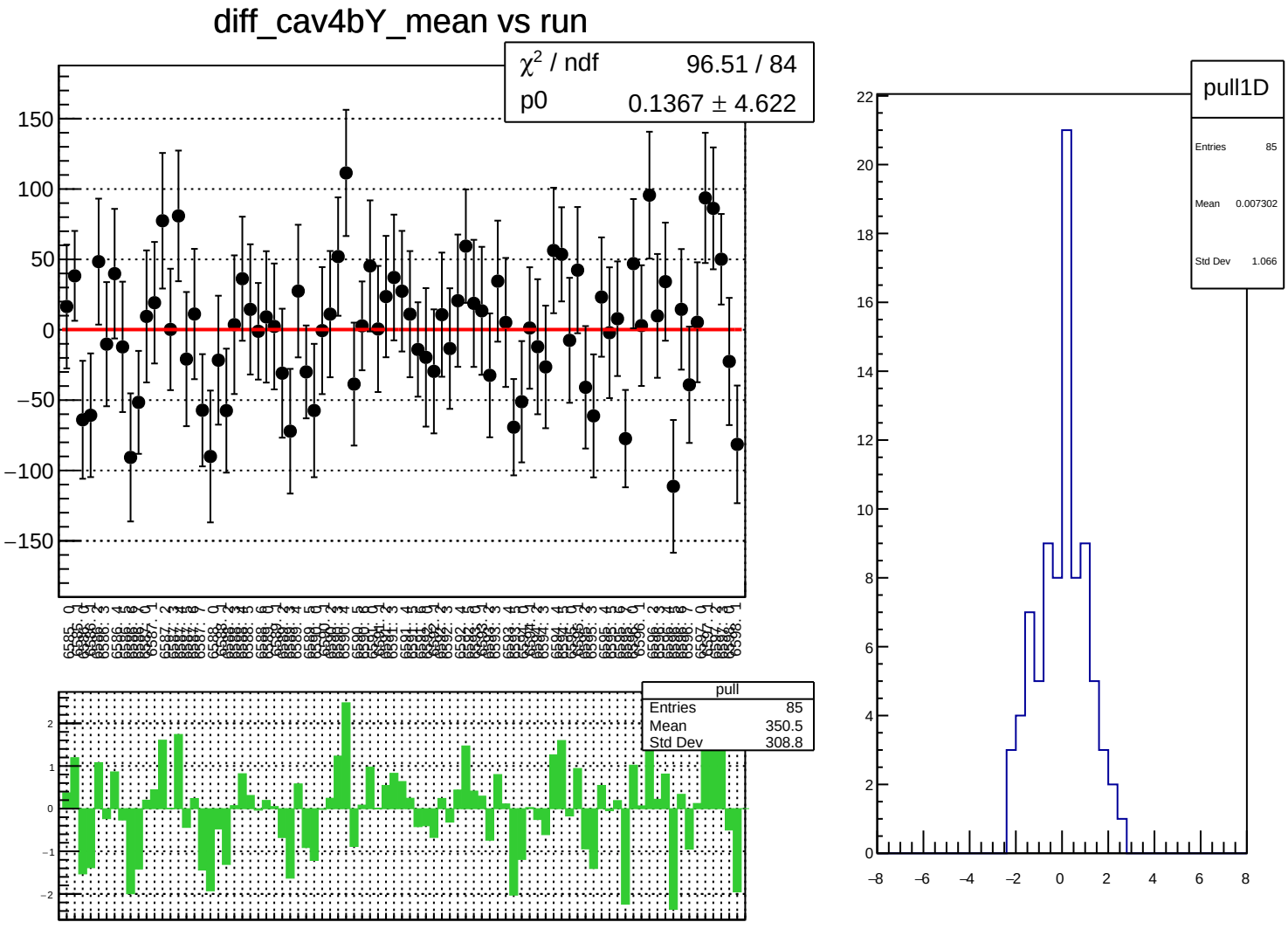
yield_bpm0l01Y_rms vs run



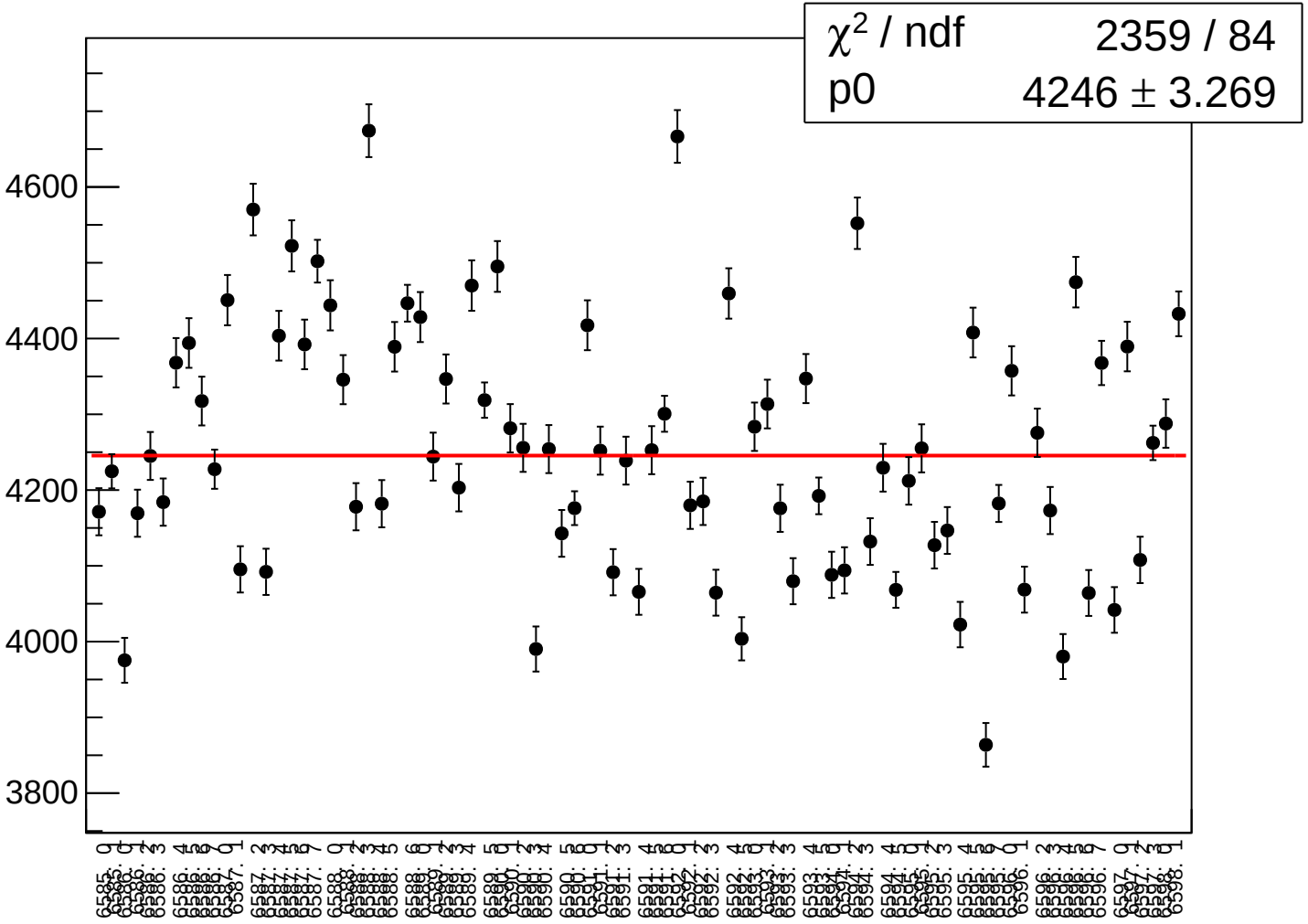

diff_cav4bX_mean vs run
χ^2 / ndf 116.8 / 84
p0 −2.352 ± 10.81
400
200
0
−200
−400
pull
Entries 85
Mean 339.5
Std Dev 271.7
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.007623
Std Dev 1.172
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

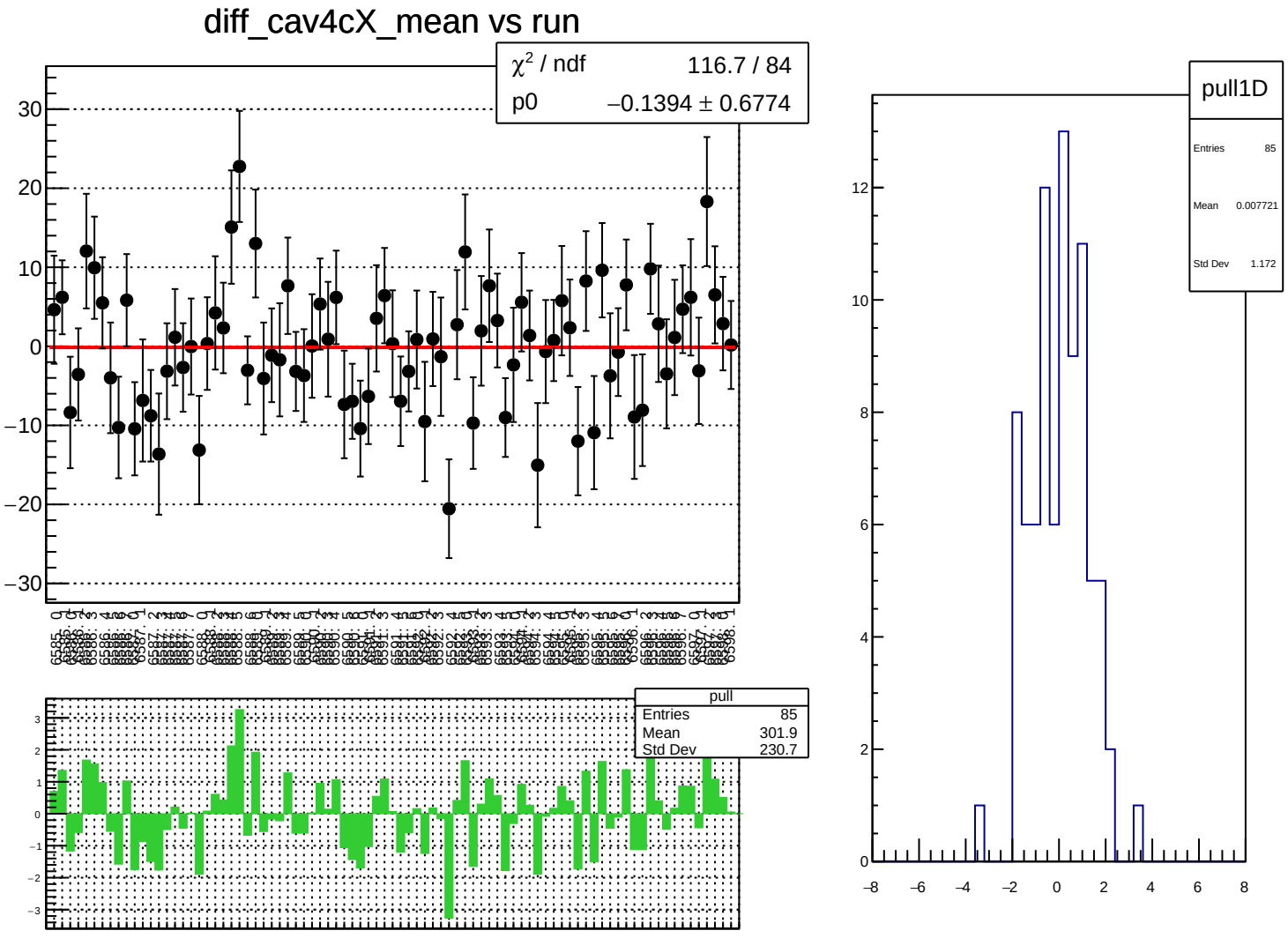
diff_cav4bX_rms vs run



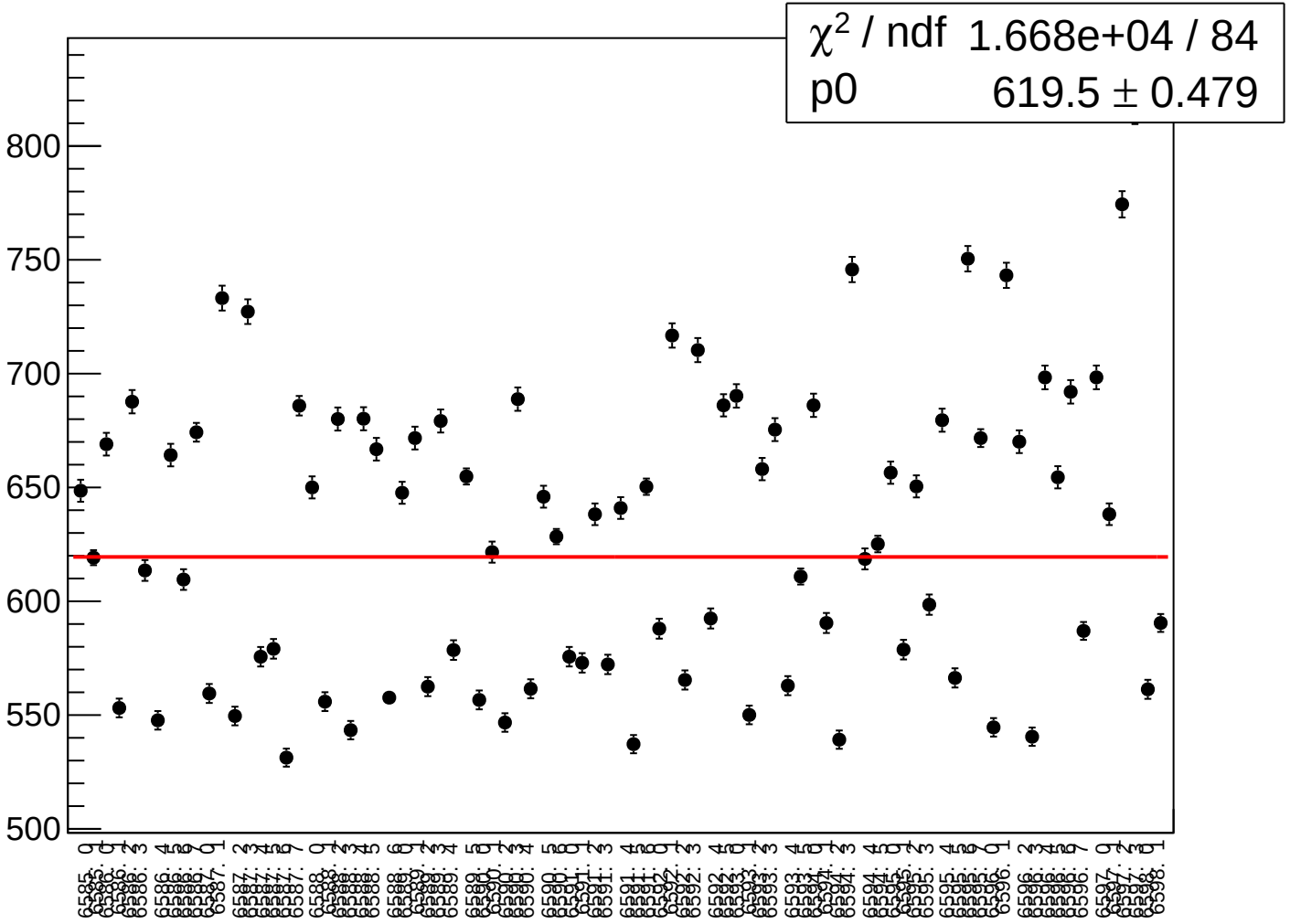

diff_cav4bY_mean vs run
χ^2 / ndf 96.51 / 84
p0 0.1367 ± 4.622
pull
Entries 85
Mean 350.5
Std Dev 308.8
pull1D
Entries 85
Mean 0.007302
Std Dev 1.066

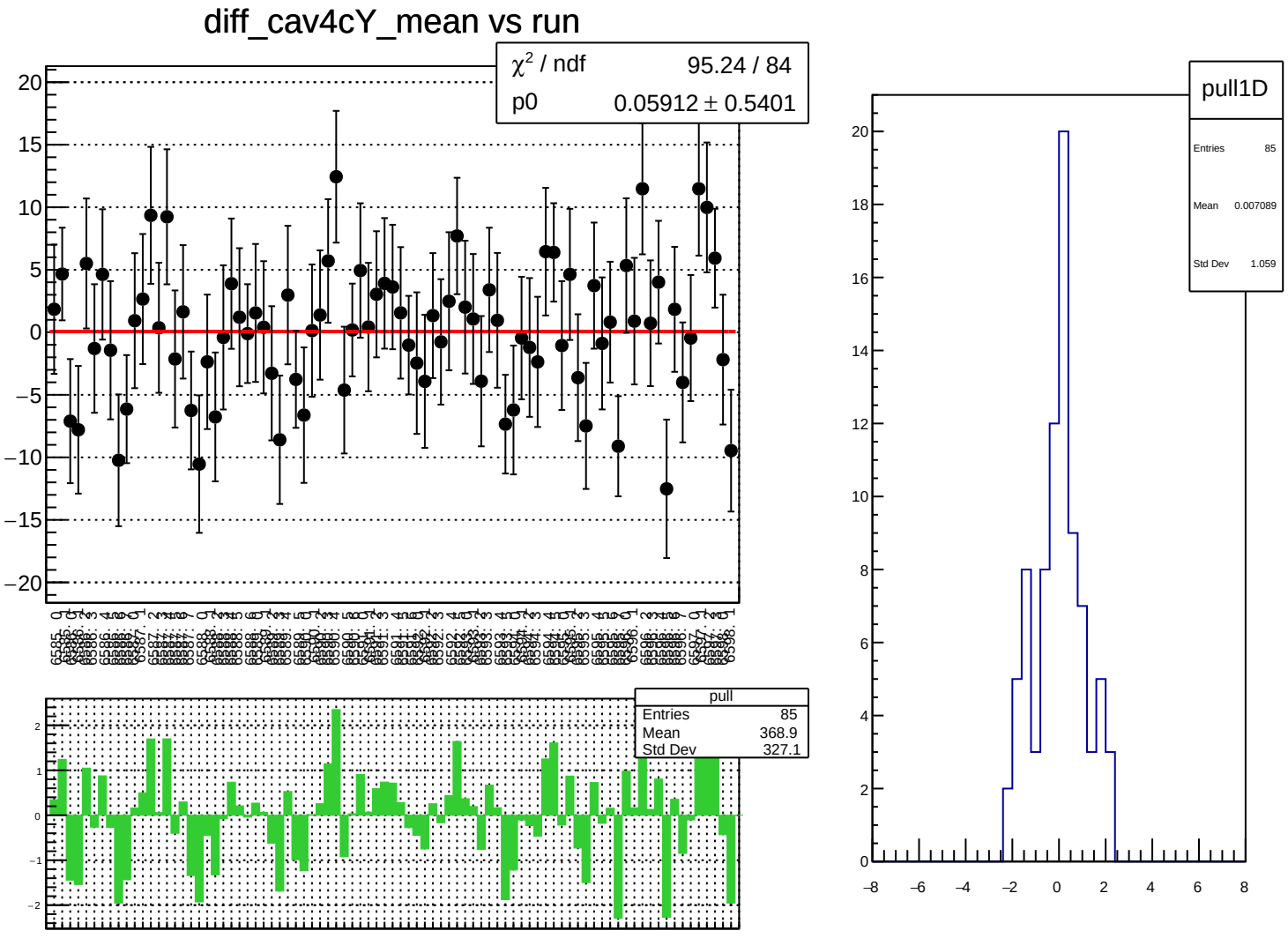
diff_cav4bY_rms vs run

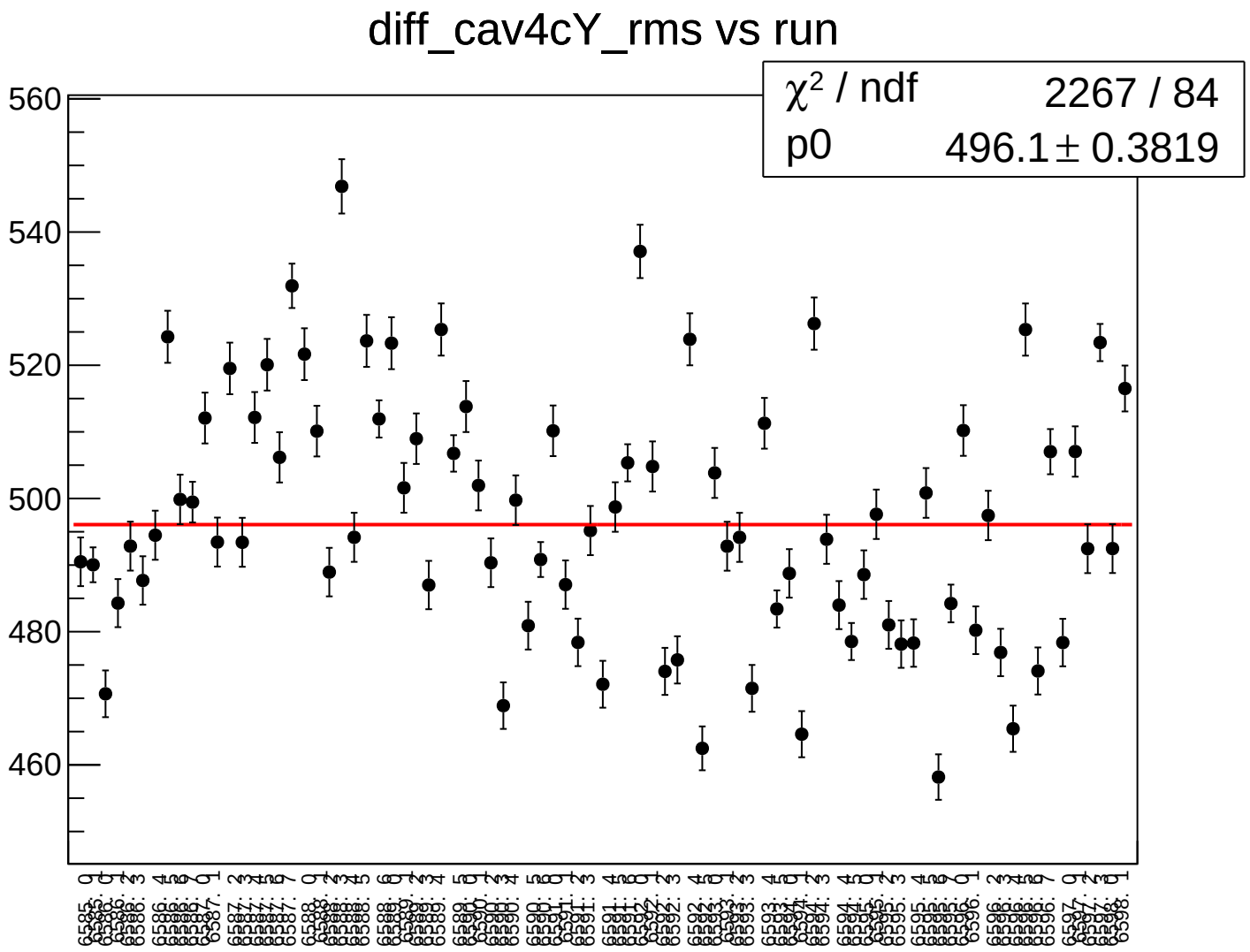


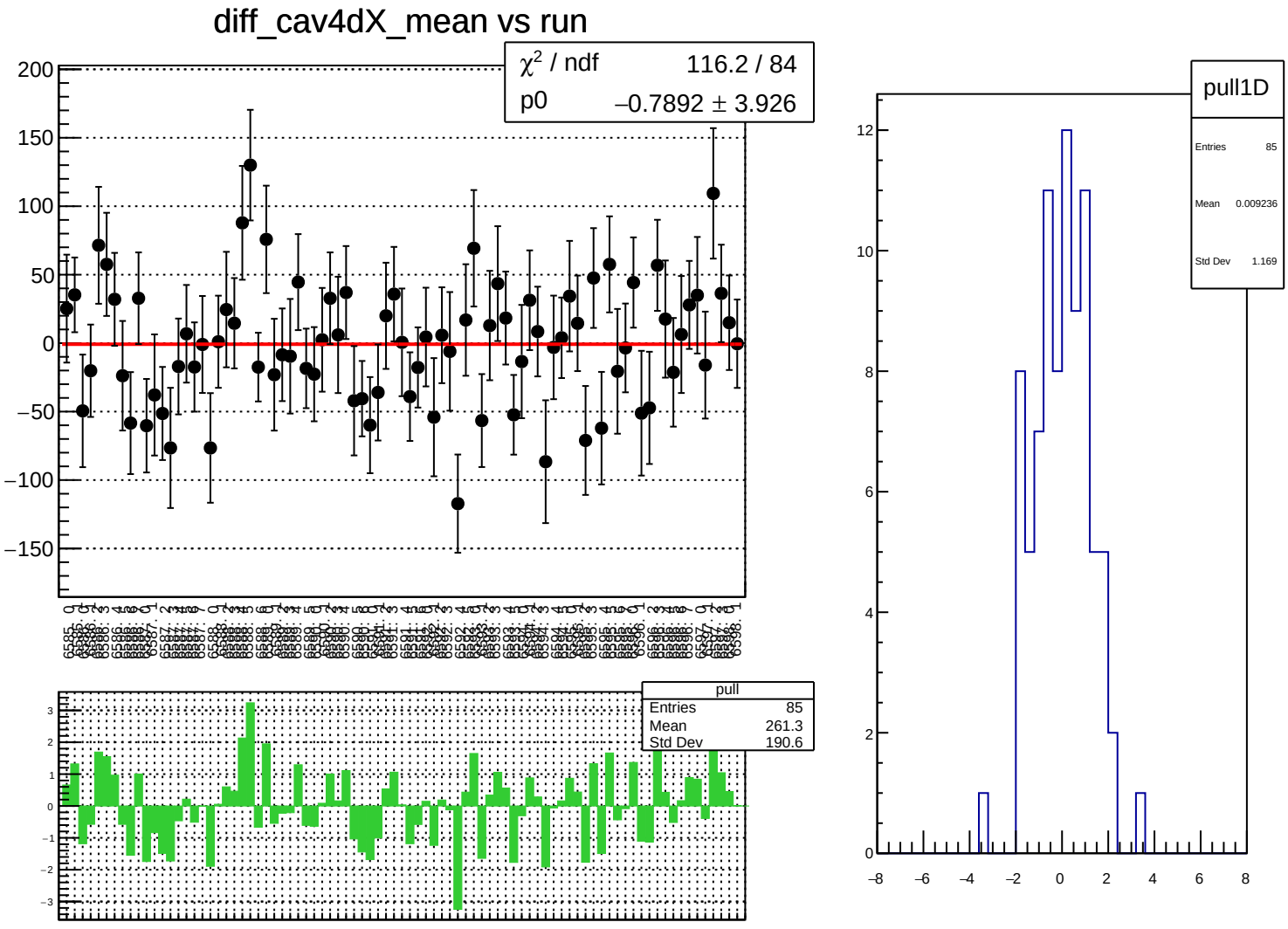

diff_cav4cX_mean vs run
χ^2 / ndf 116.7 / 84
p0 −0.1394 ± 0.6774
pull
Entries 85
Mean 301.9
Std Dev 230.7
pull1D
Entries 85
Mean 0.007721
Std Dev 1.172

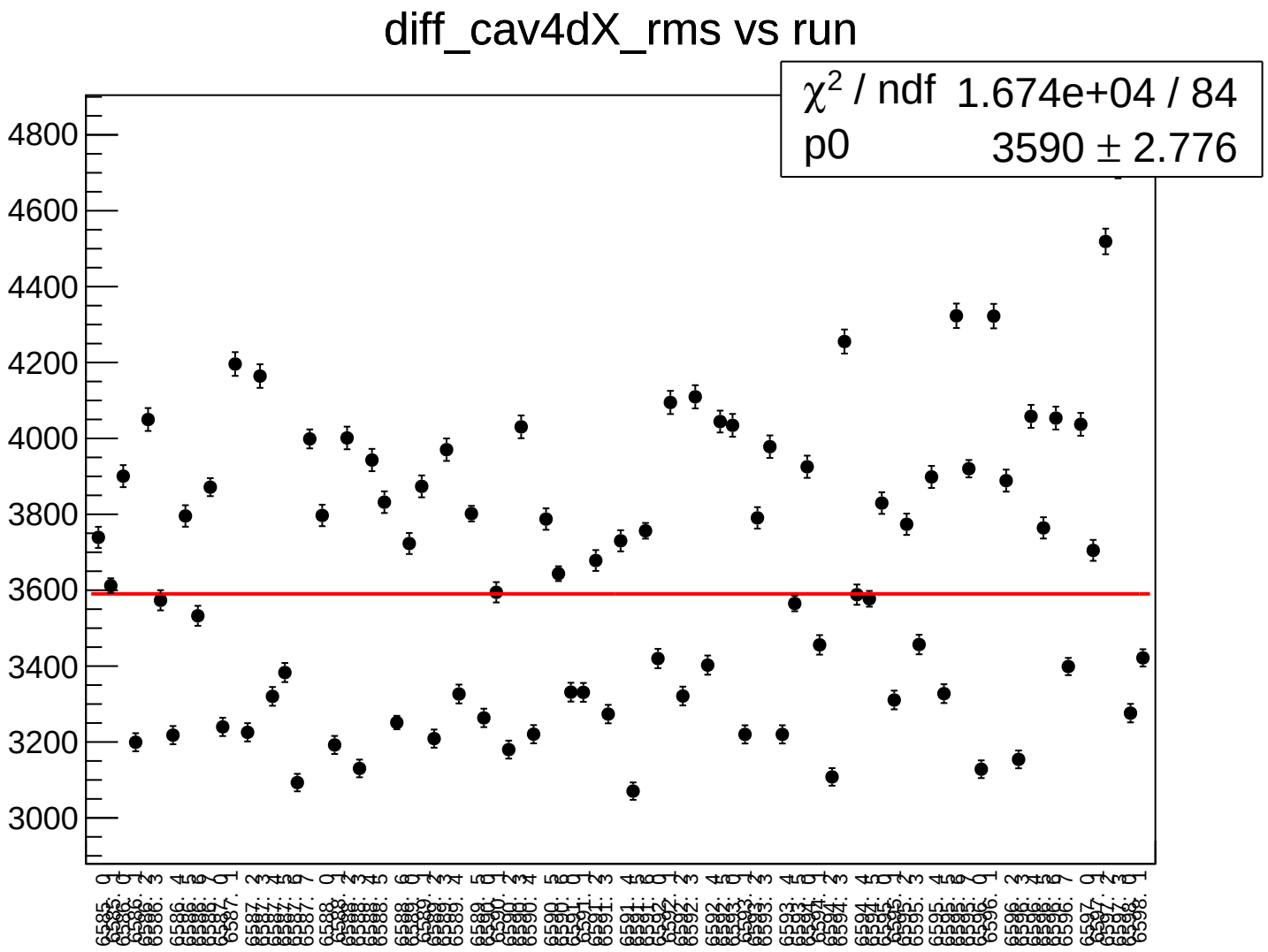
diff_cav4cX_rms vs run

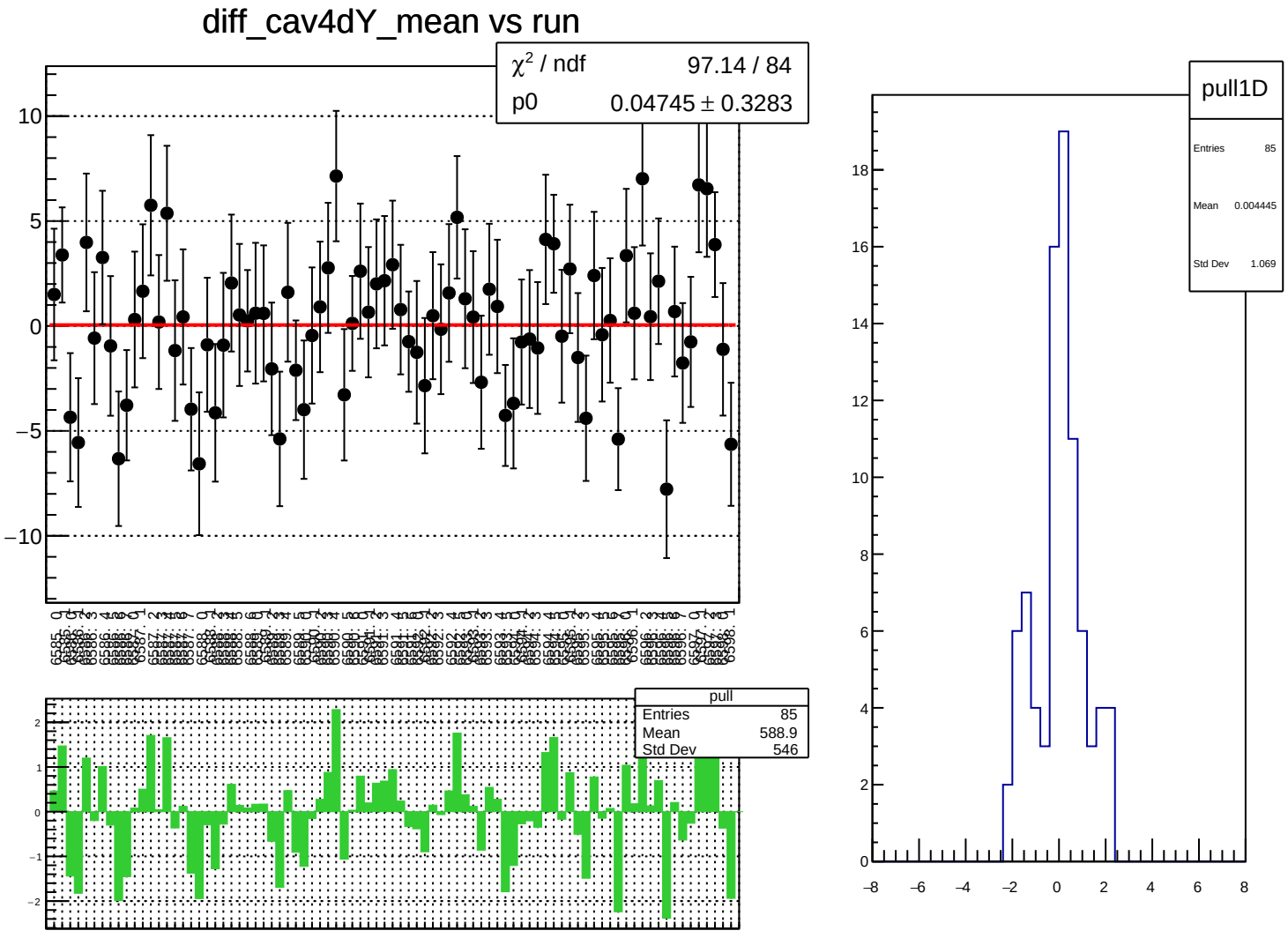



diff_cav4cY_mean vs run
χ² / ndf 95.24 / 84
p0 0.05912 ± 0.5401
pull
Entries 85
Mean 368.9
Std Dev 327.1
pull1D
Entries 85
Mean 0.007089
Std Dev 1.059

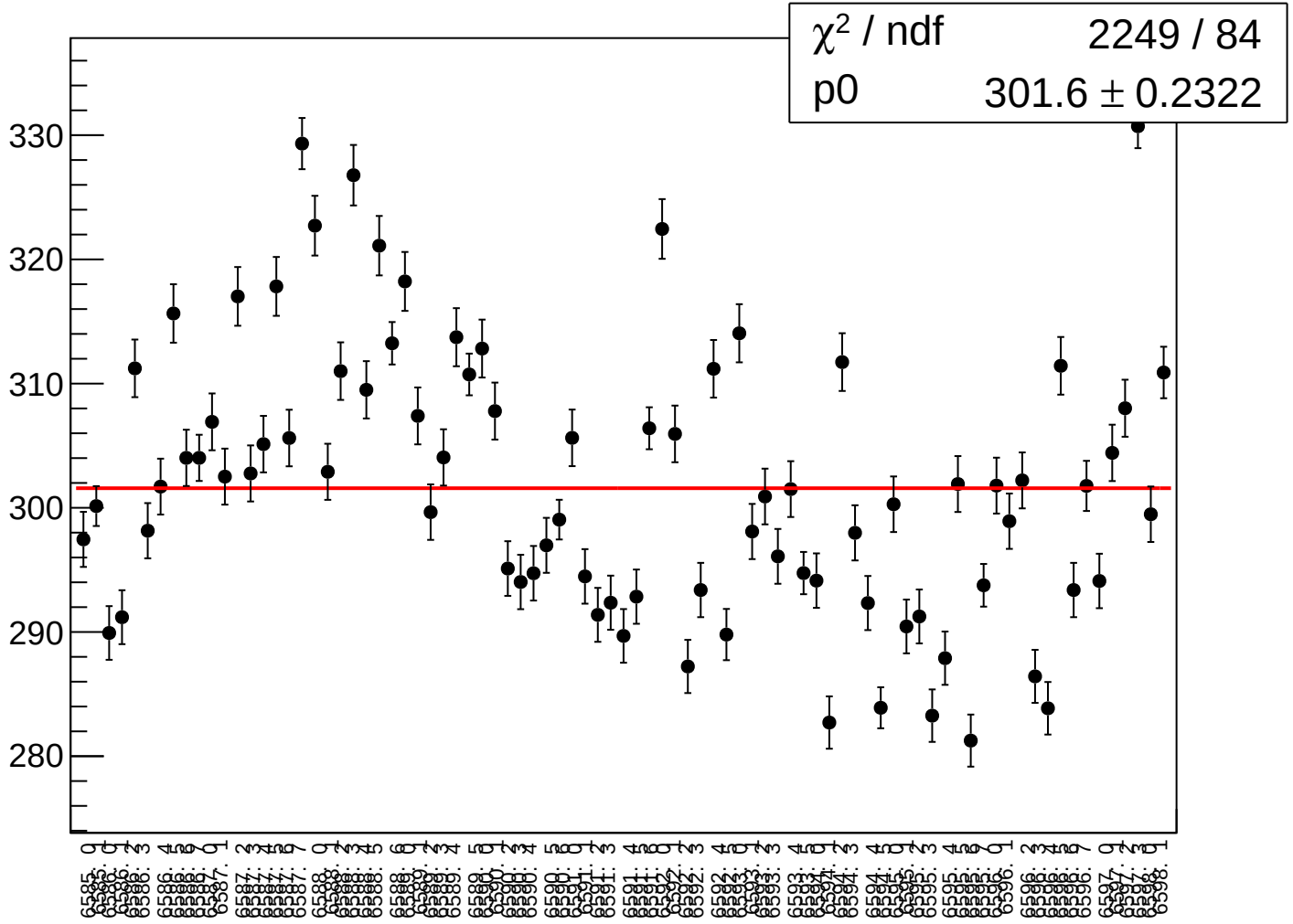

diff_cav4cY_rms vs run
χ² / ndf 2267 / 84
p0 496.1 ± 0.3819
560
540
520
500
480
460

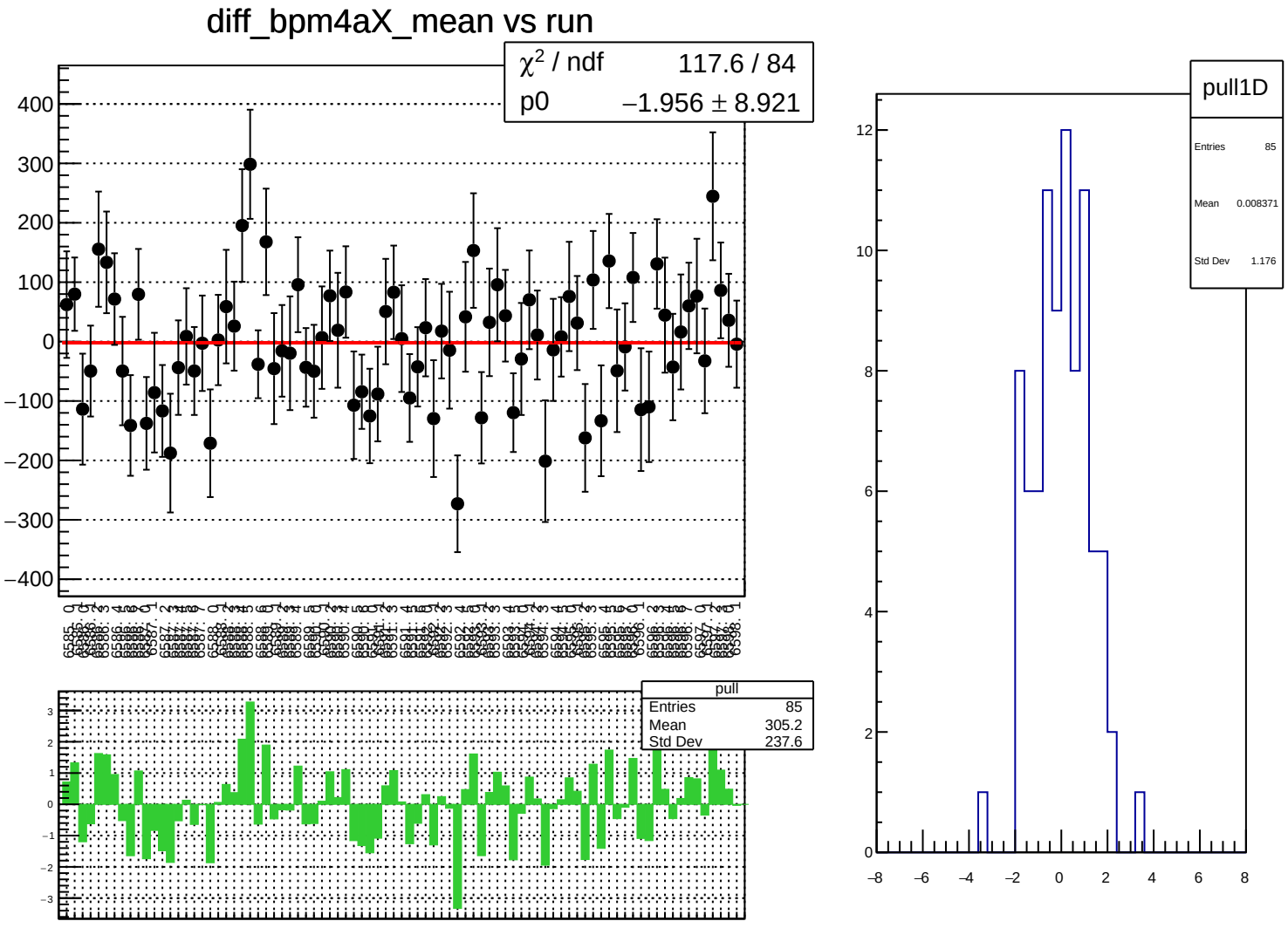

diff_cav4dX_mean vs run
χ^2 / ndf 116.2 / 84
p0 −0.7892 ± 3.926
pull
Entries 85
Mean 261.3
Std Dev 190.6
pull1D
Entries 85
Mean 0.009236
Std Dev 1.169


diff_cav4dX_rms vs run
χ² / ndf 1.674e+04 / 84
p0 3590 ± 2.776
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

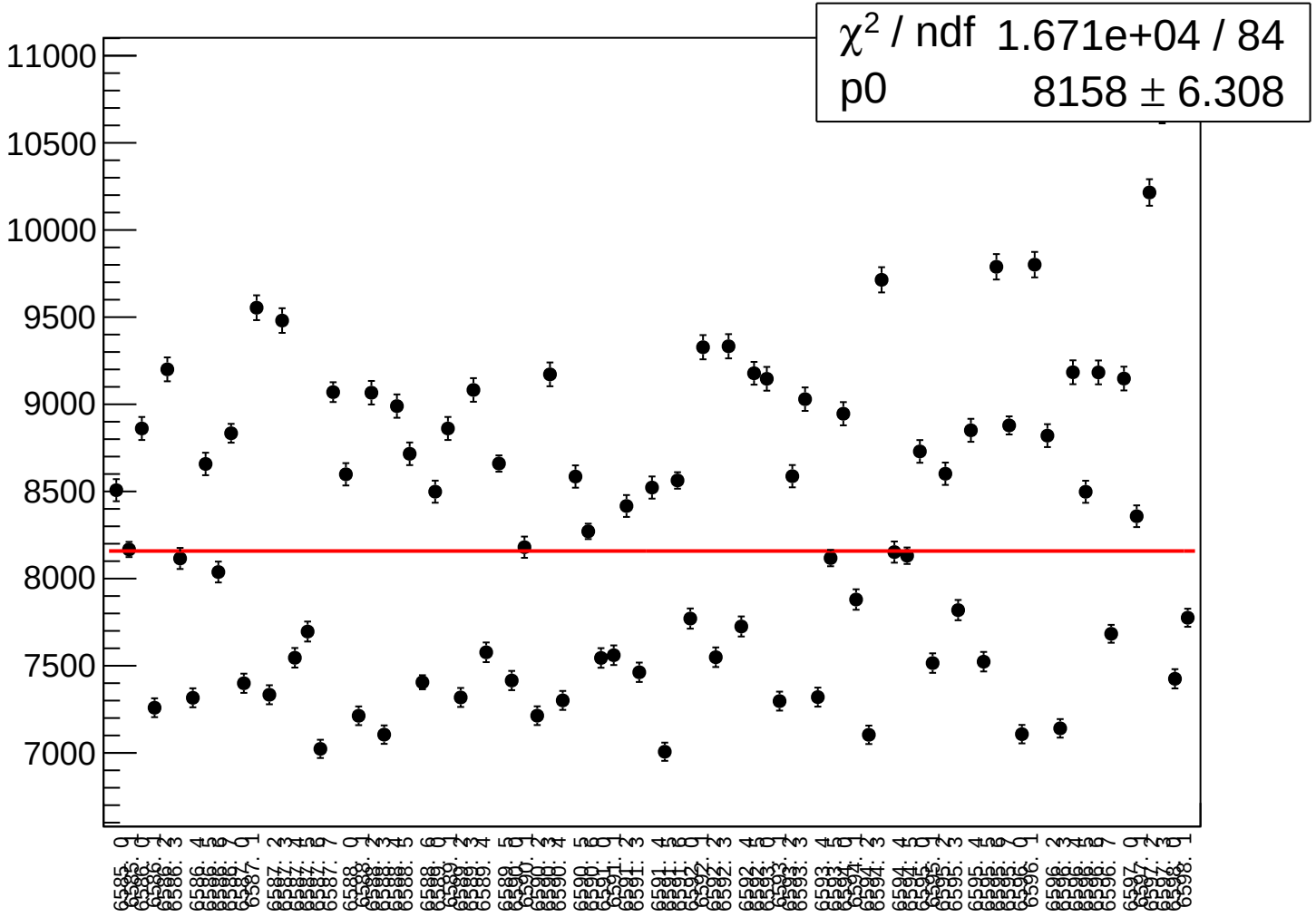

diff_cav4dY_mean vs run
χ^2 / ndf 97.14 / 84
p0 0.04745 ± 0.3283
pull
Entries 85
Mean 588.9
Std Dev 546
pull1D
Entries 85
Mean 0.004445
Std Dev 1.069

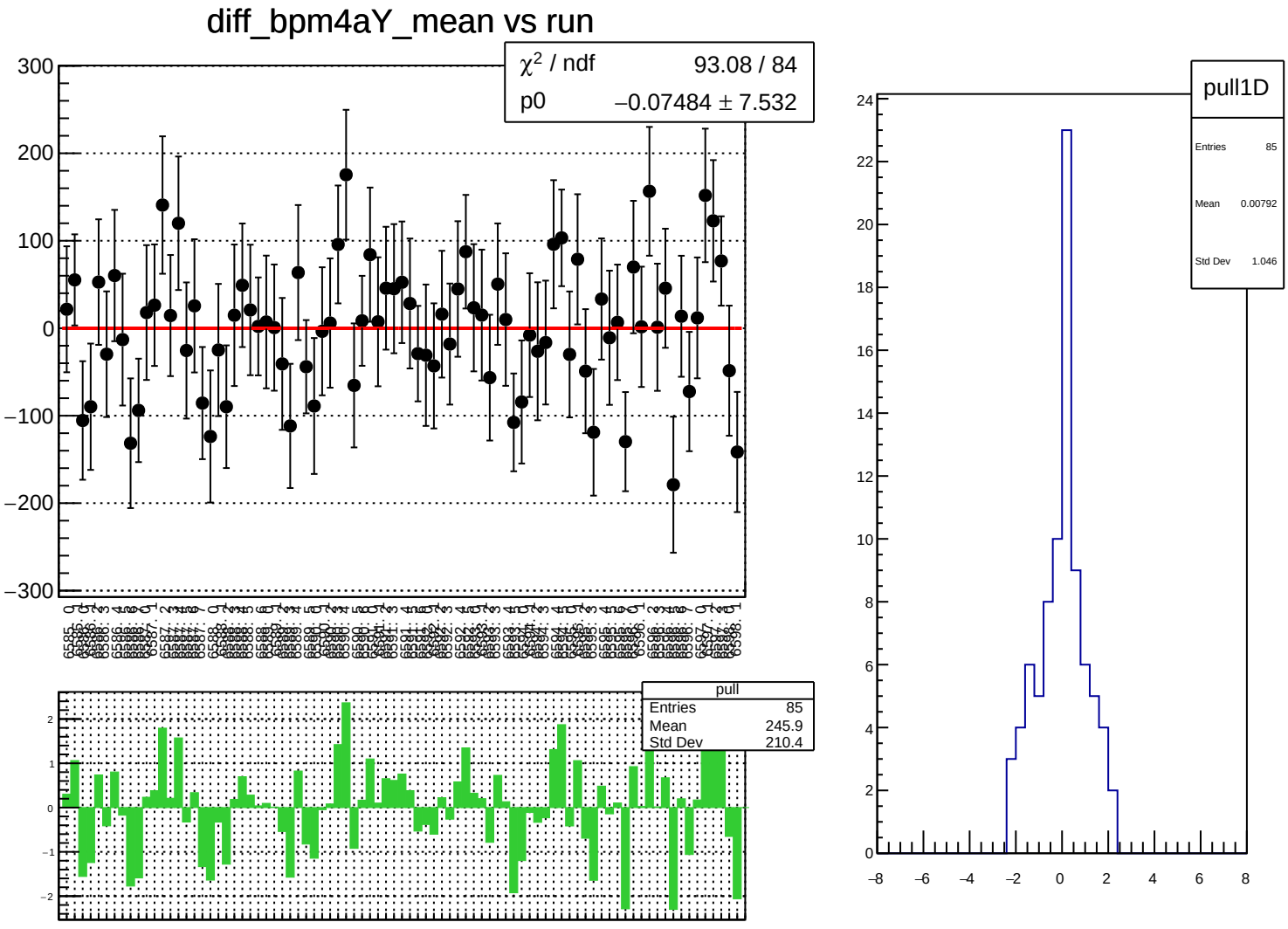
diff_cav4dY_rms vs run

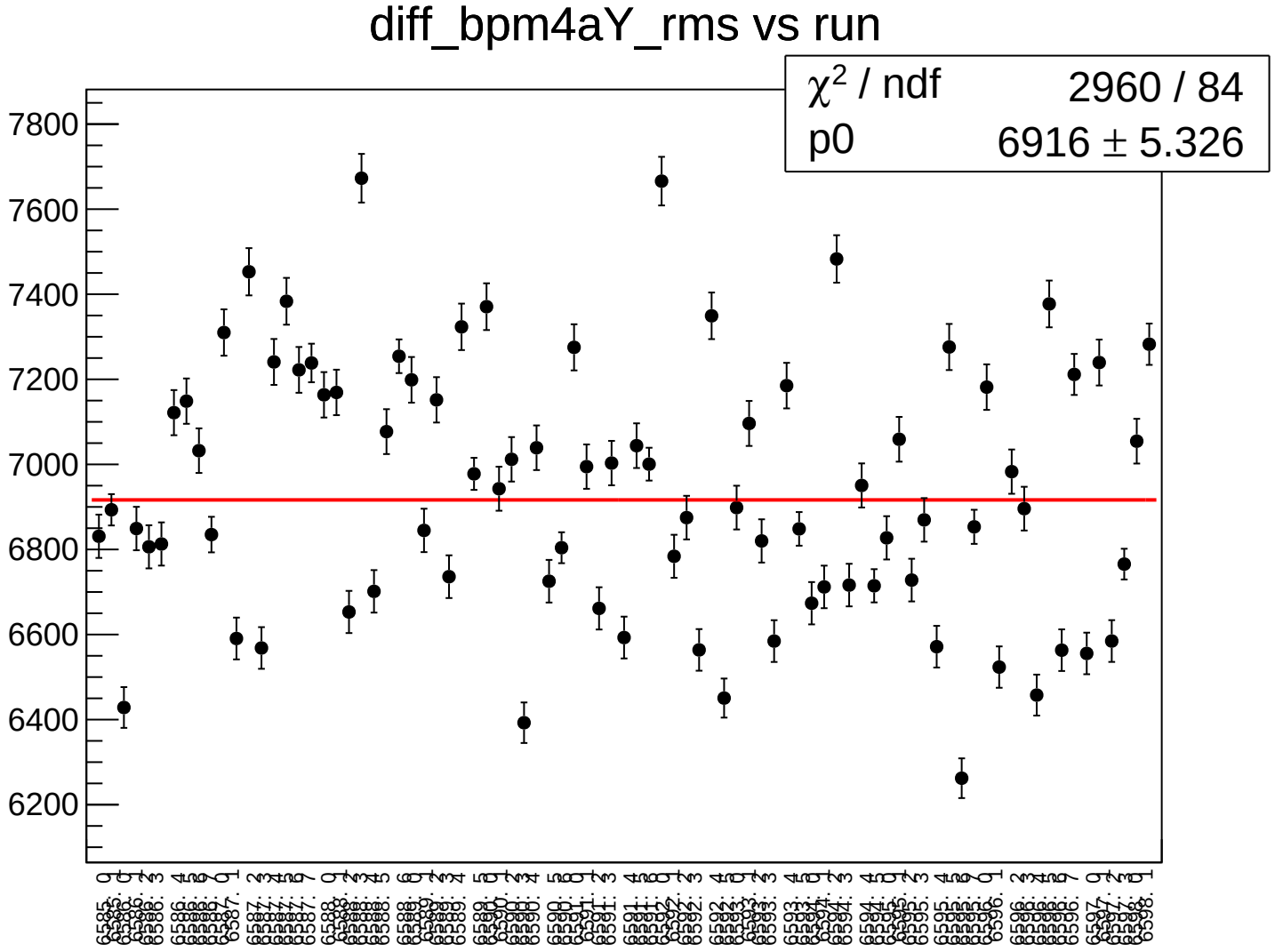


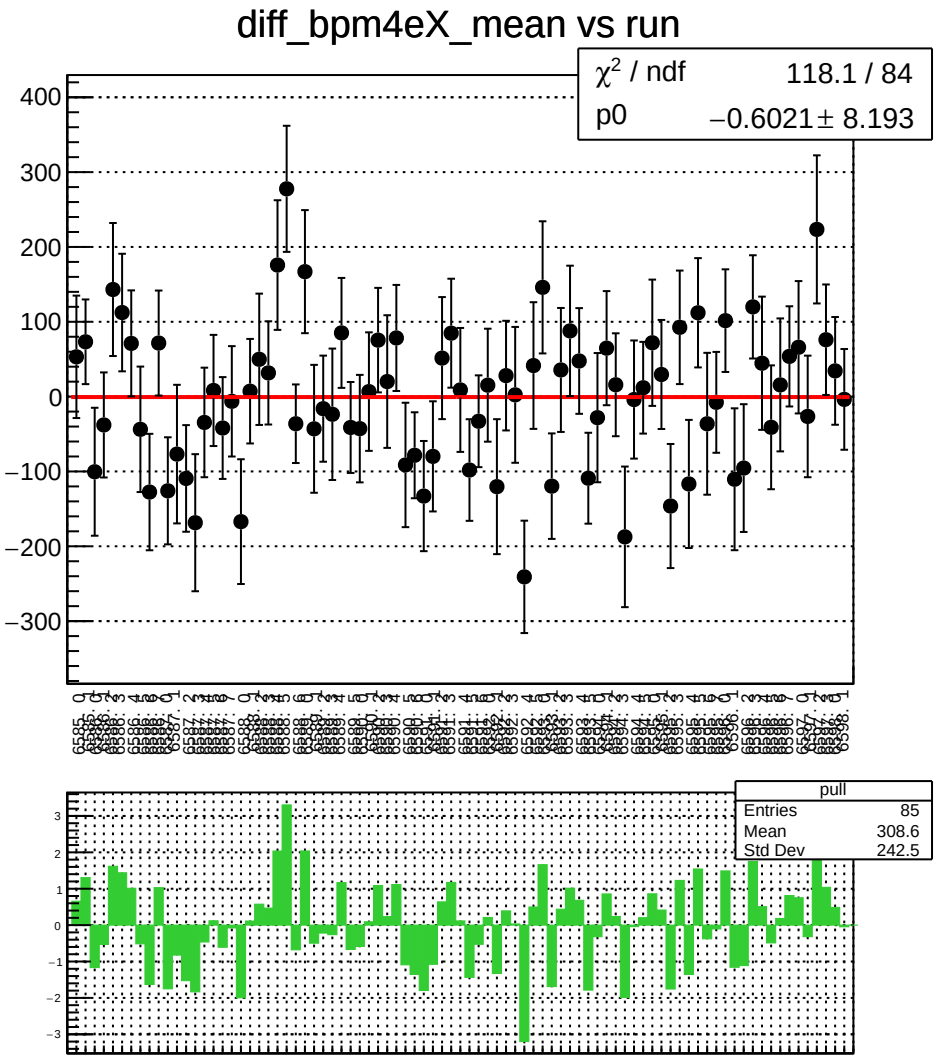

diff_bpm4aX_mean vs run
χ^2 / ndf 117.6 / 84
p0 −1.956 ± 8.921
pull
Entries 85
Mean 305.2
Std Dev 237.6
pull1D
Entries 85
Mean 0.008371
Std Dev 1.176

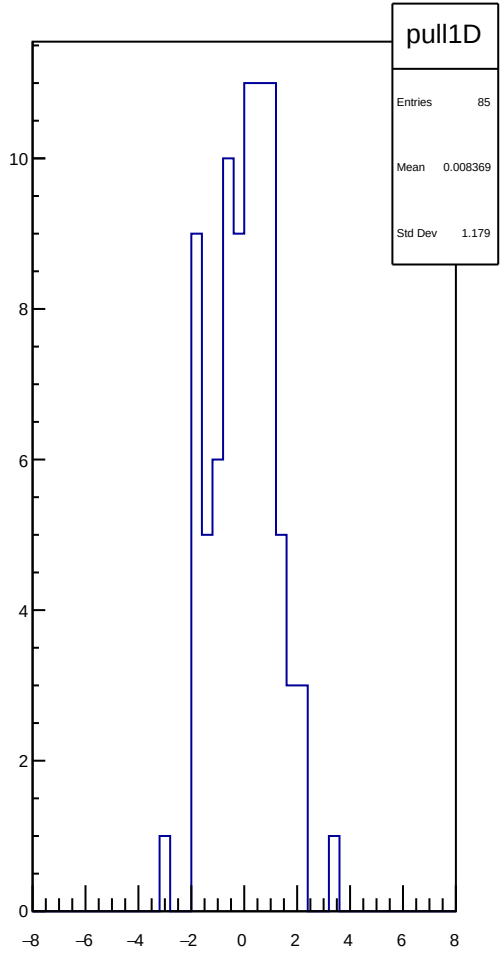
diff_bpm4aX_rms vs run



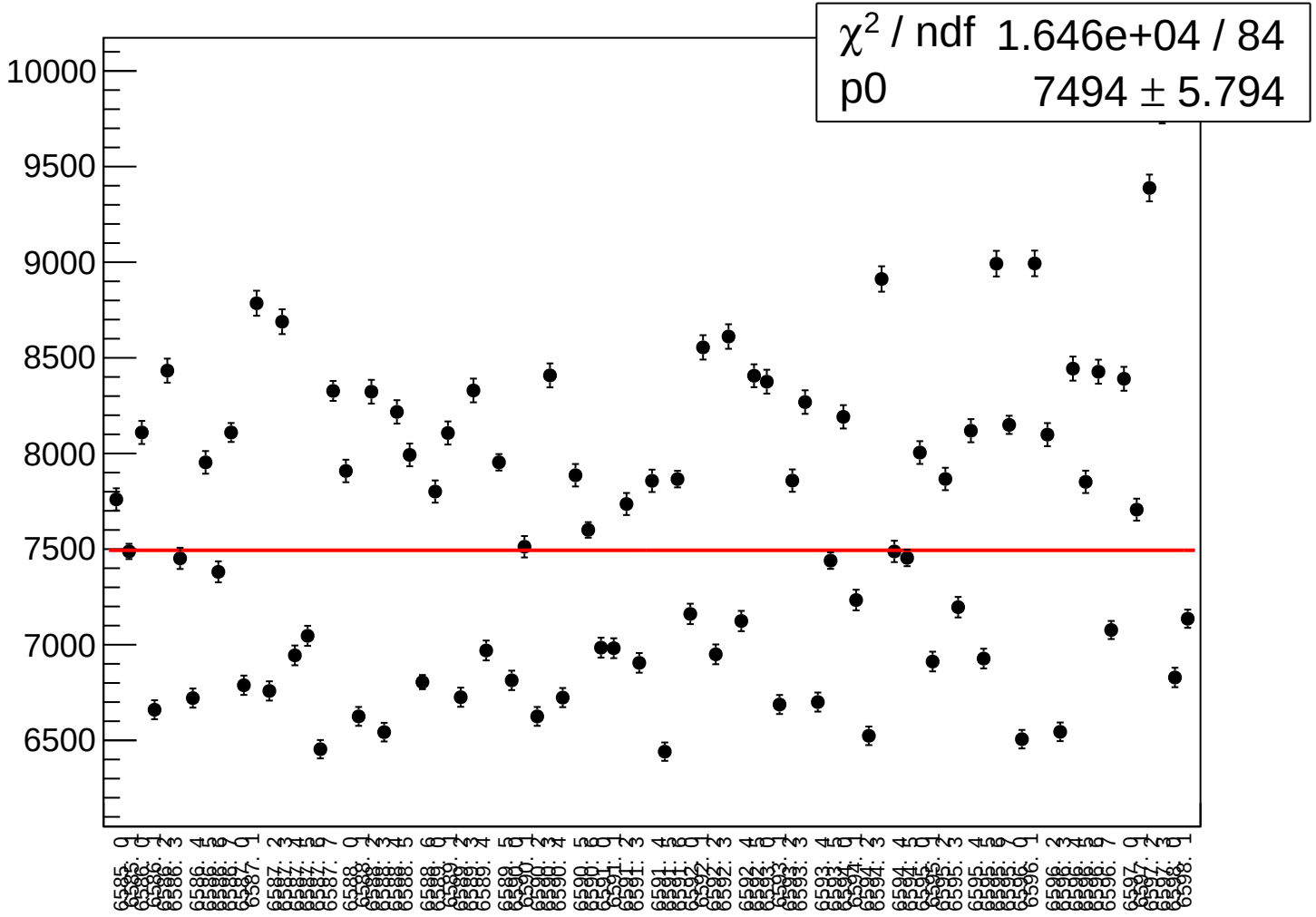

diff_bpm4aY_mean vs run
χ² / ndf 93.08 / 84
p0 −0.07484 ± 7.532
pull
Entries 85
Mean 245.9
Std Dev 210.4
pull1D
Entries 85
Mean 0.00792
Std Dev 1.046

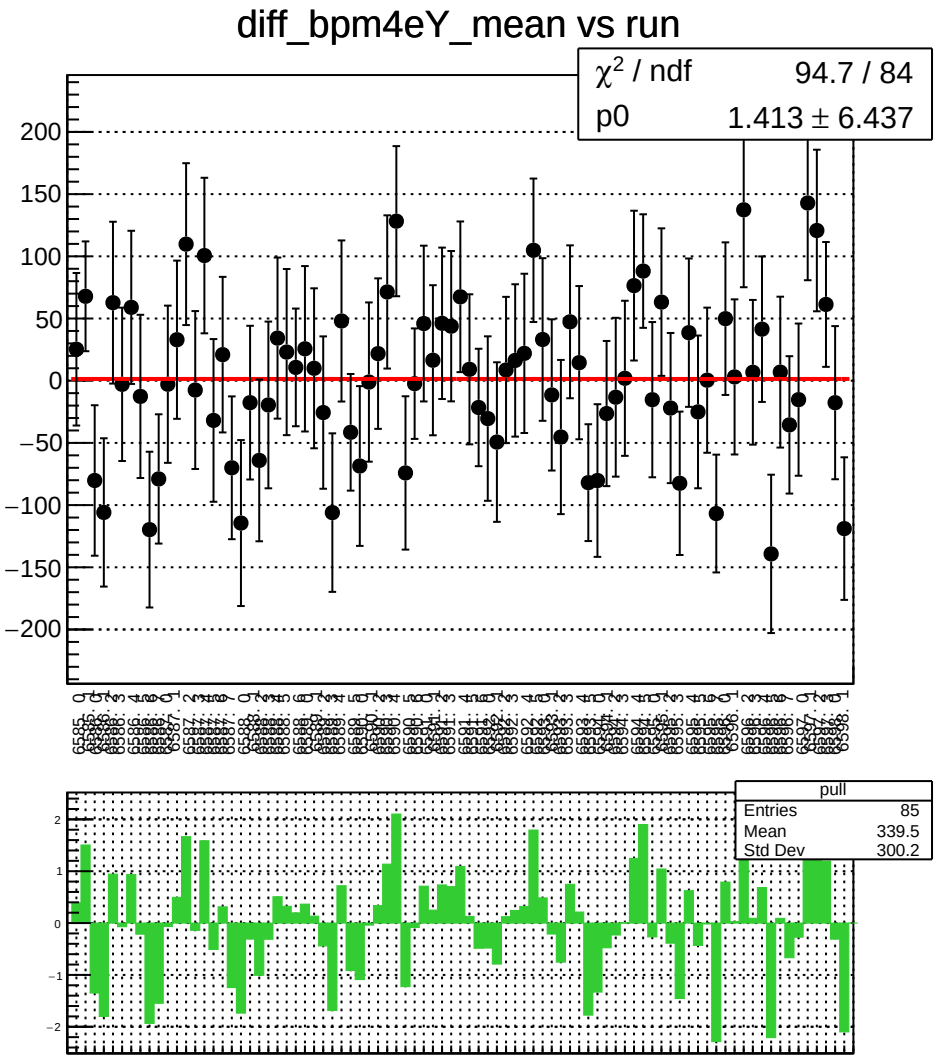

diff_bpm4aY_rms vs run
χ² / ndf 2960 / 84
p0 6916 ± 5.326
7800
7600
7400
7200
7000
6800
6600
6400
6200

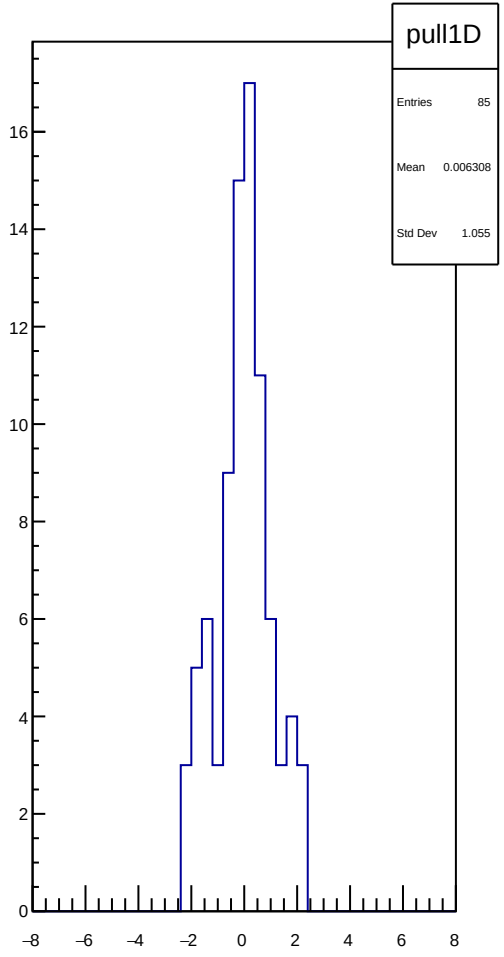

diff_bpm4eX_mean vs run
χ^2 / ndf 118.1 / 84
p0 −0.6021 ± 8.193
pull
Entries 85
Mean 308.6
Std Dev 242.5


pull1D
Entries 85
Mean 0.008369
Std Dev 1.179

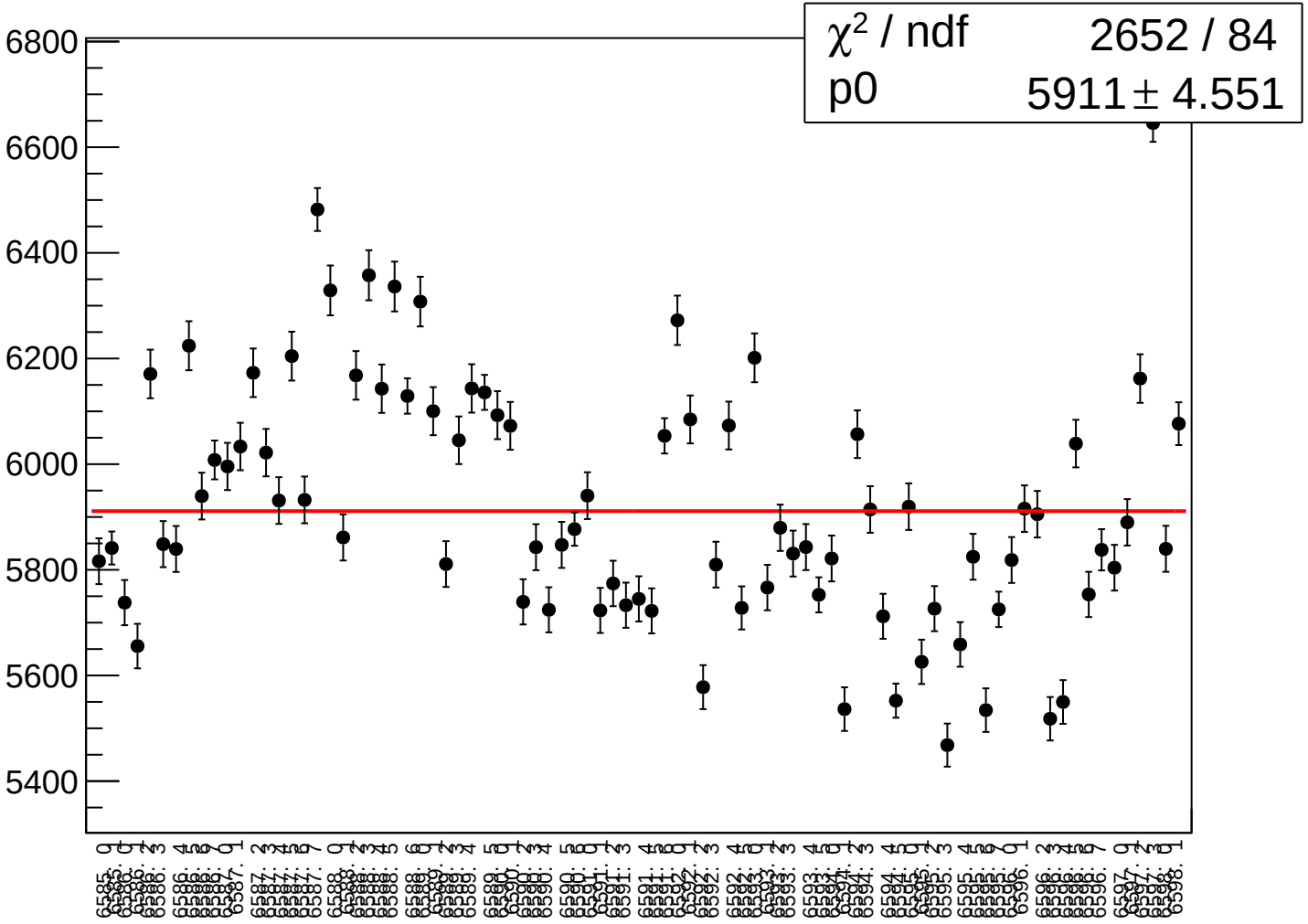
diff_bpm4eX_rms vs run

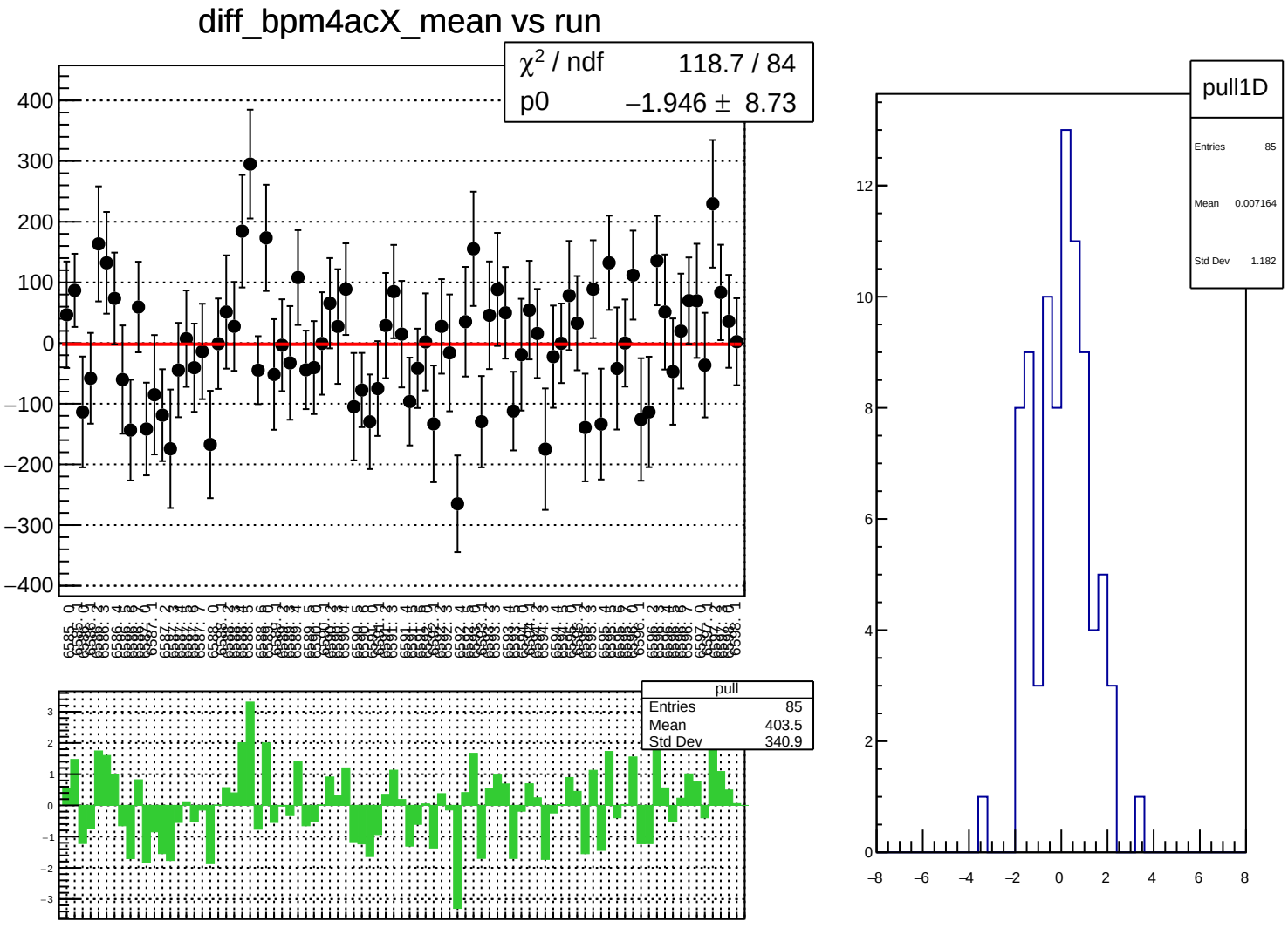


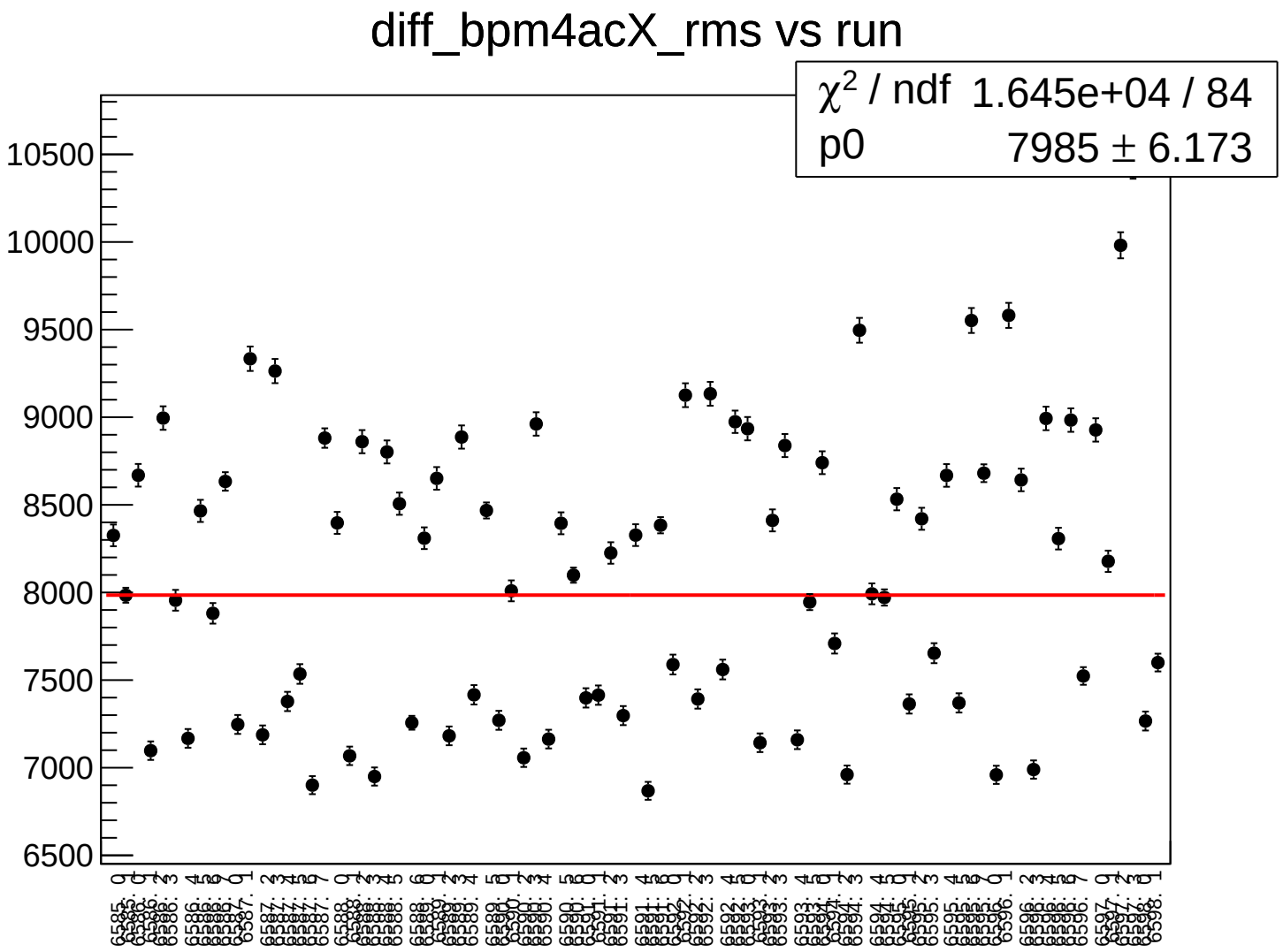

diff_bpm4eY_mean vs run
χ^2 / ndf 94.7 / 84
p0 1.413 ± 6.437
pull
Entries 85
Mean 339.5
Std Dev 300.2

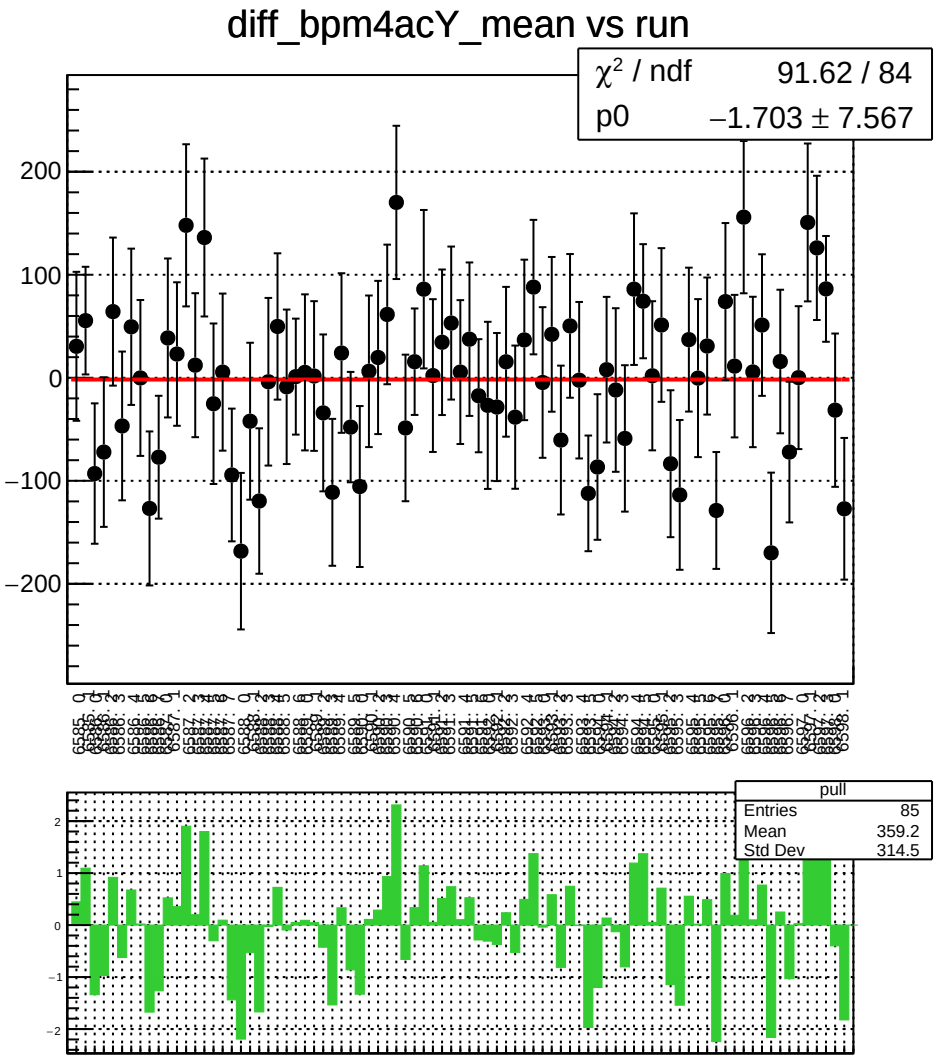

pull1D
Entries 85
Mean 0.006308
Std Dev 1.055

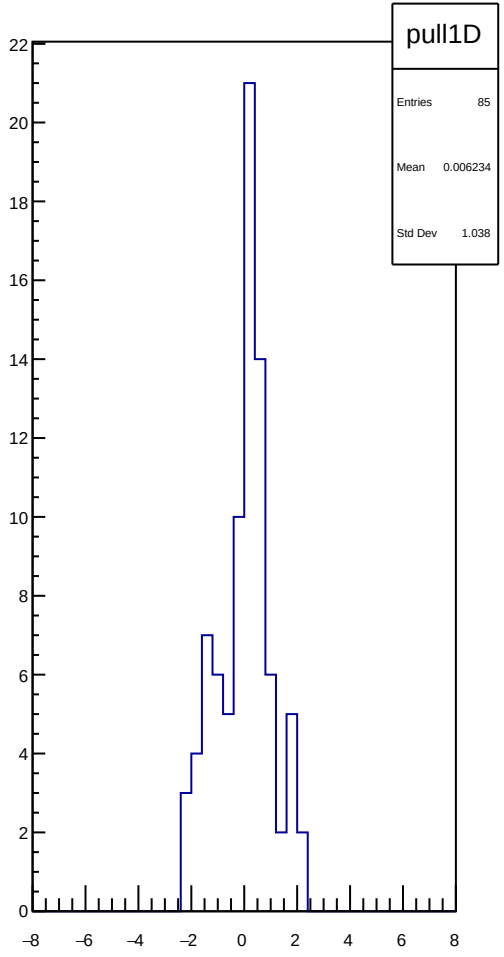
diff_bpm4eY_rms vs run

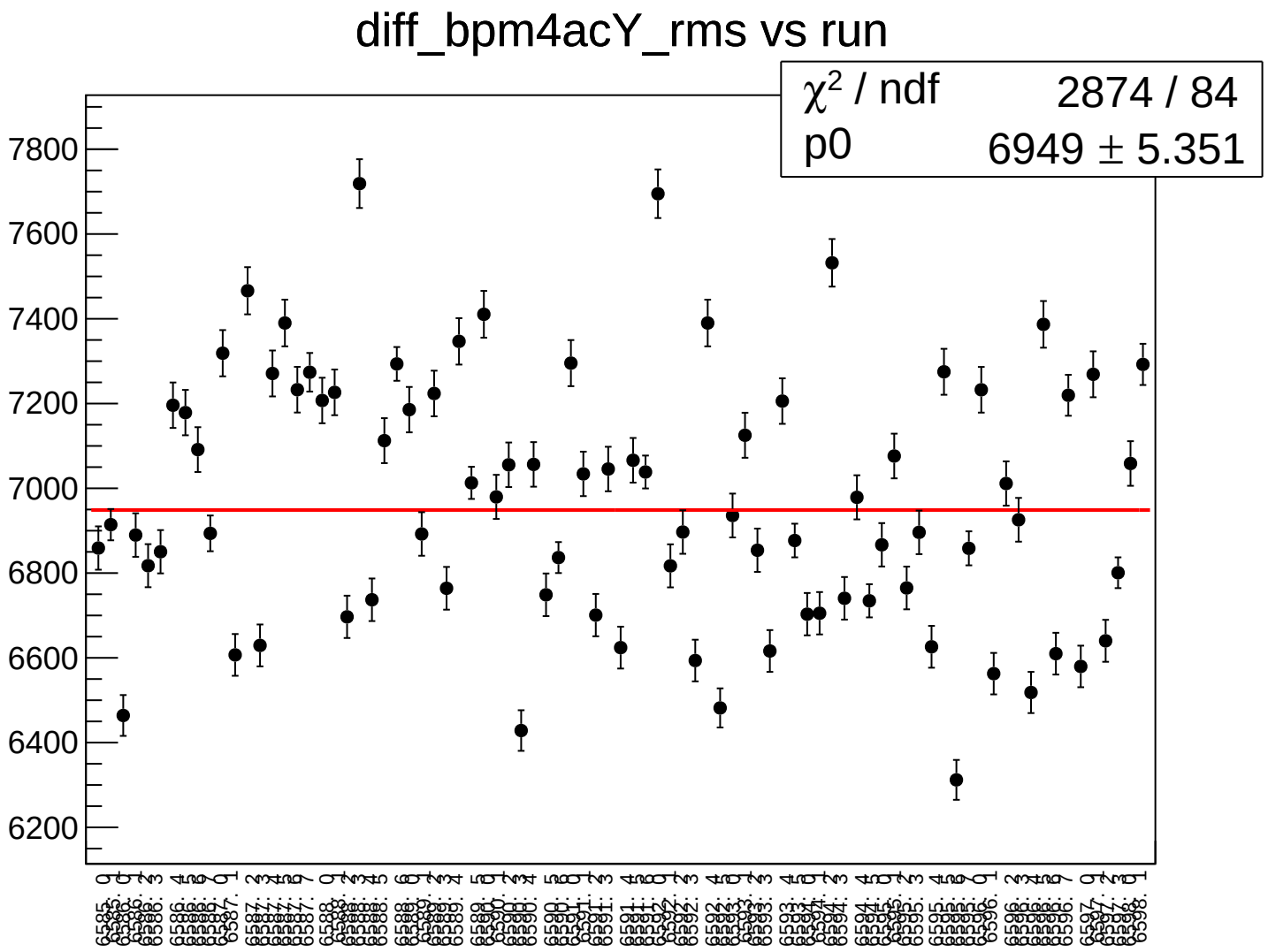


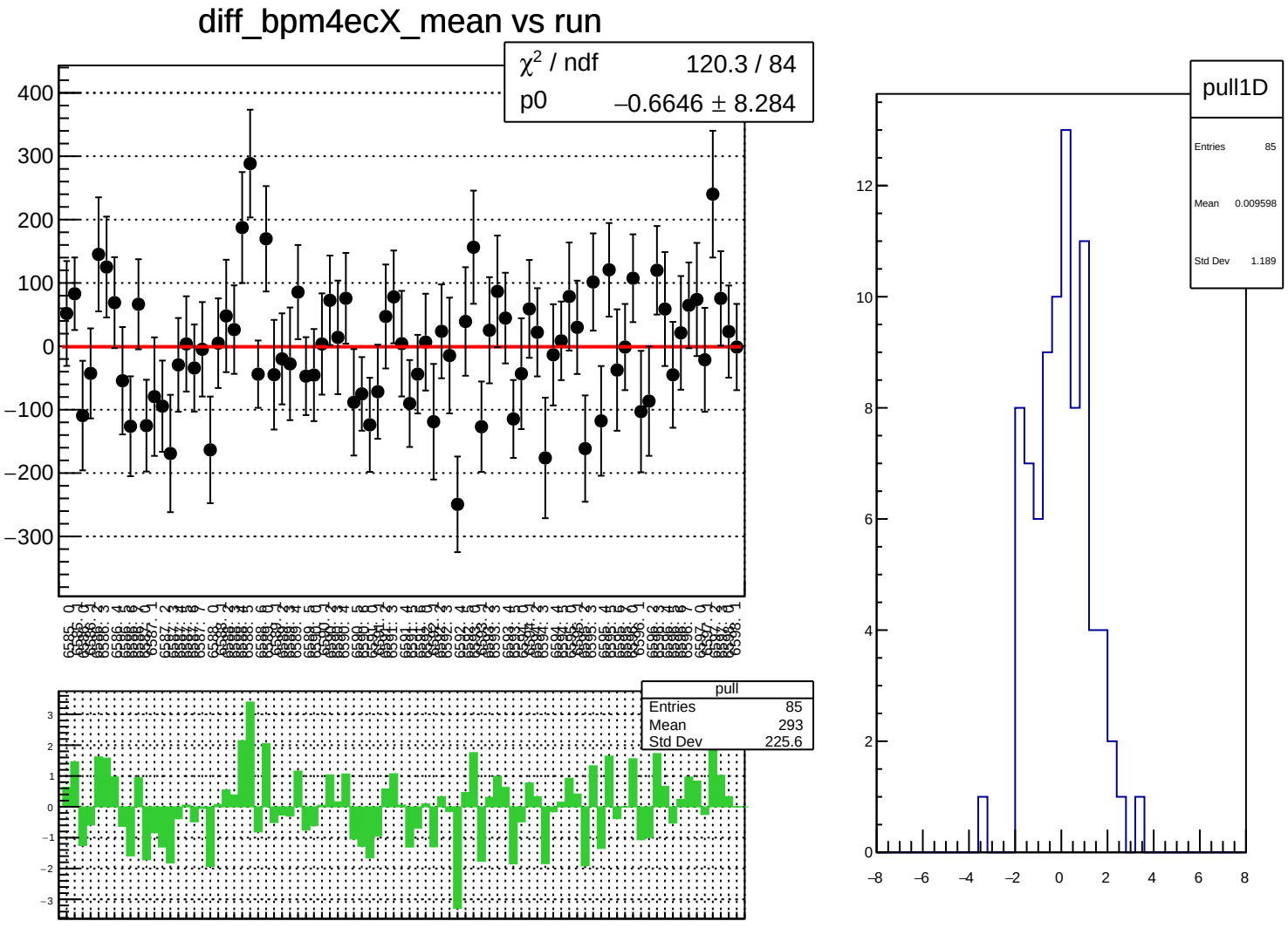

diff_bpm4acX_mean vs run
χ^2 / ndf 118.7 / 84
p0 −1.946 ± 8.73
pull
Entries 85
Mean 403.5
Std Dev 340.9
pull1D
Entries 85
Mean 0.007164
Std Dev 1.182


diff_bpm4acX_rms vs run
χ² / ndf 1.645e+04 / 84
p0 7985 ± 6.173
10500
10000
9500
9000
8500
8000
7500
7000
6500

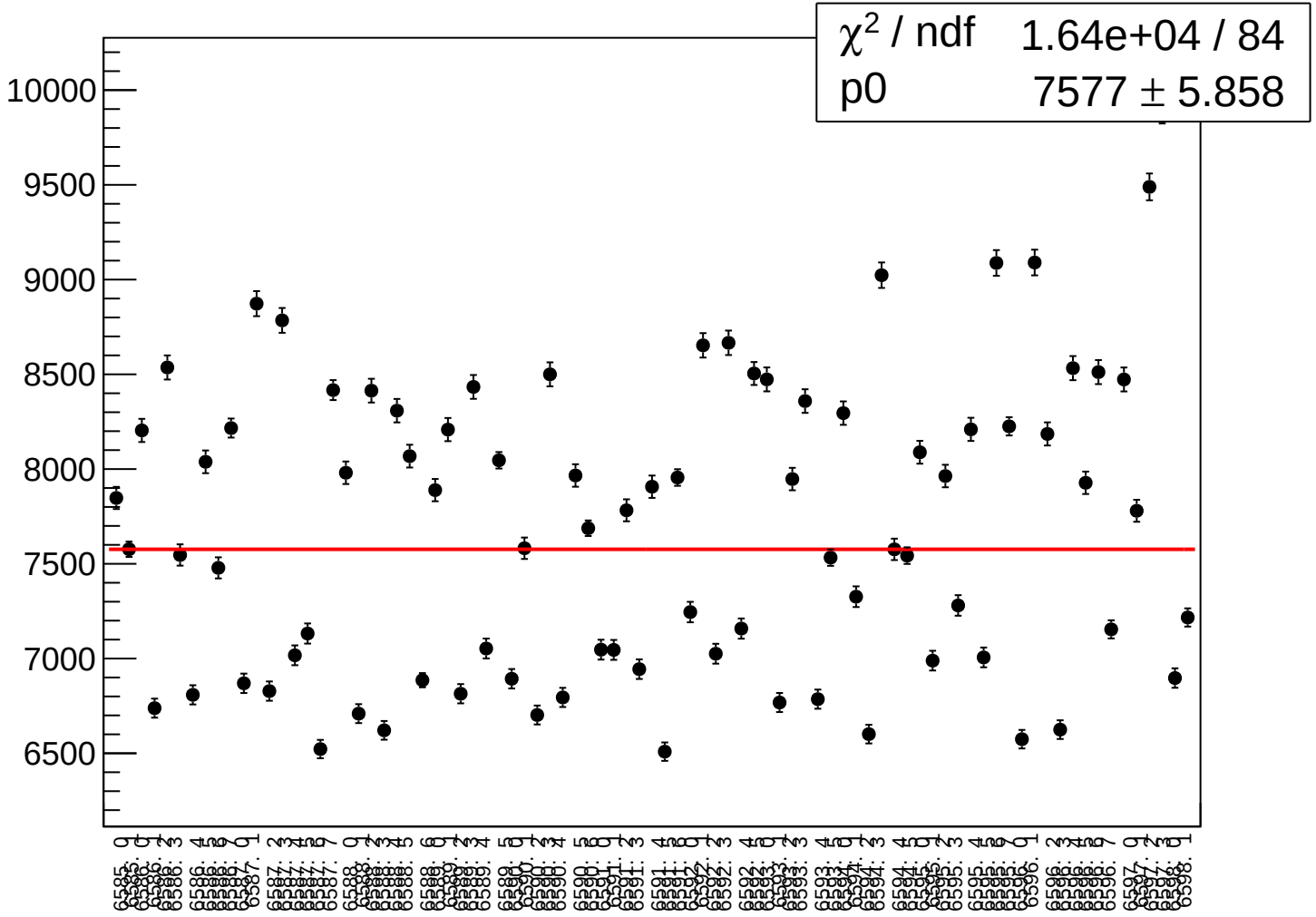

diff_bpm4acY_mean vs run
χ^2 / ndf 91.62 / 84
p0 −1.703 ± 7.567
pull
Entries 85
Mean 359.2
Std Dev 314.5

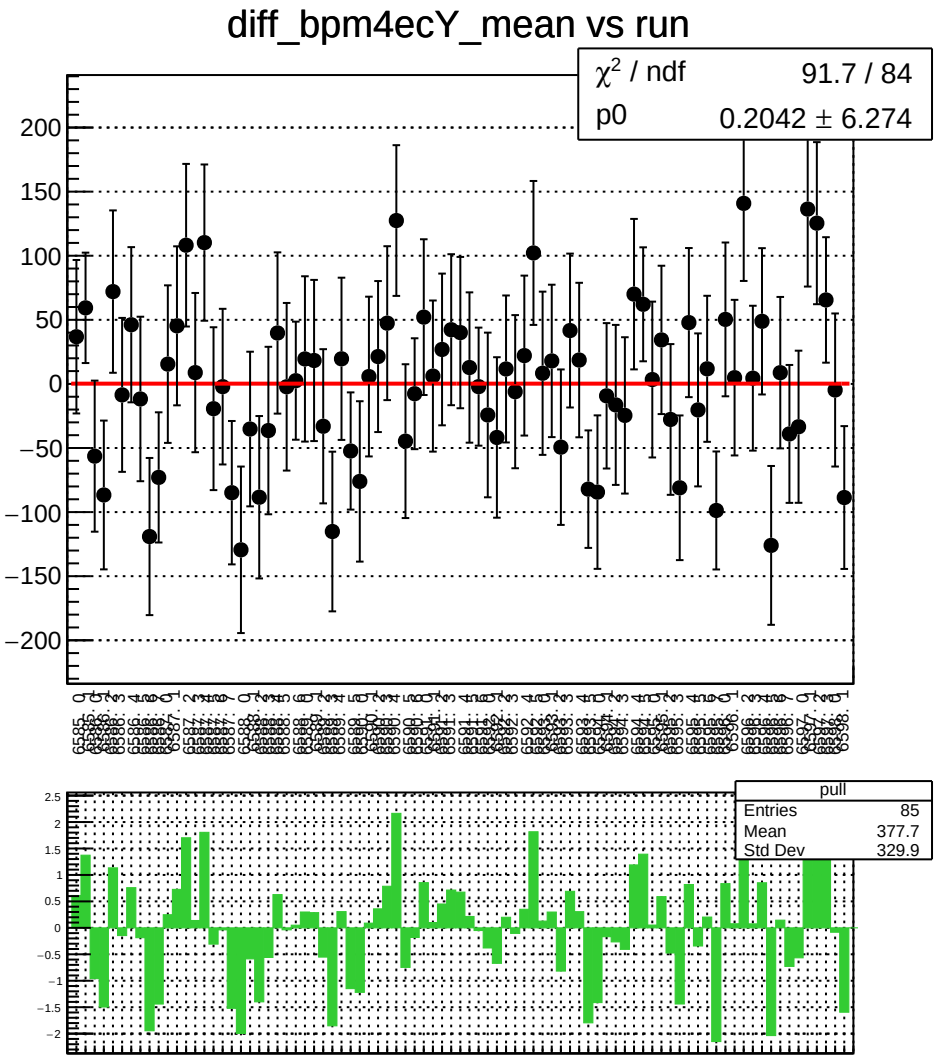

pull1D
Entries 85
Mean 0.006234
Std Dev 1.038

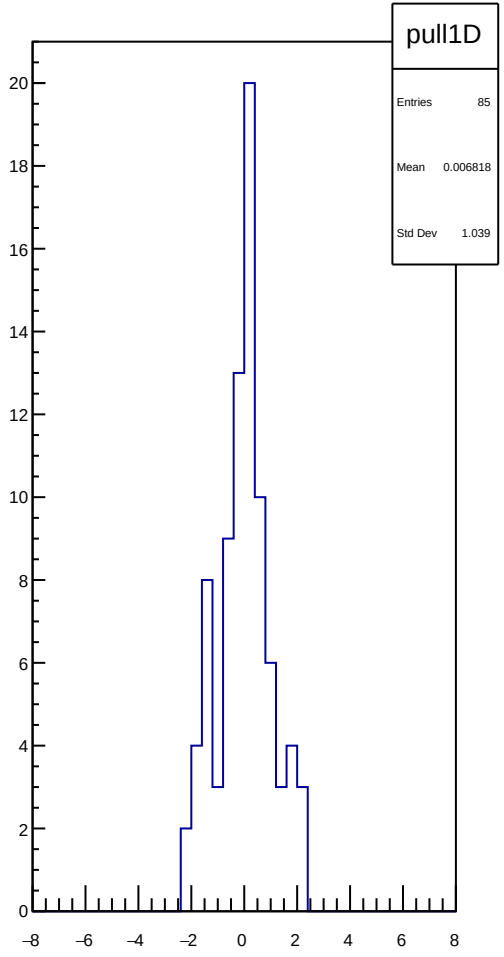

diff_bpm4acY_rms vs run
χ² / ndf 2874 / 84
p0 6949 ± 5.351
7800
7600
7400
7200
7000
6800
6600
6400
6200

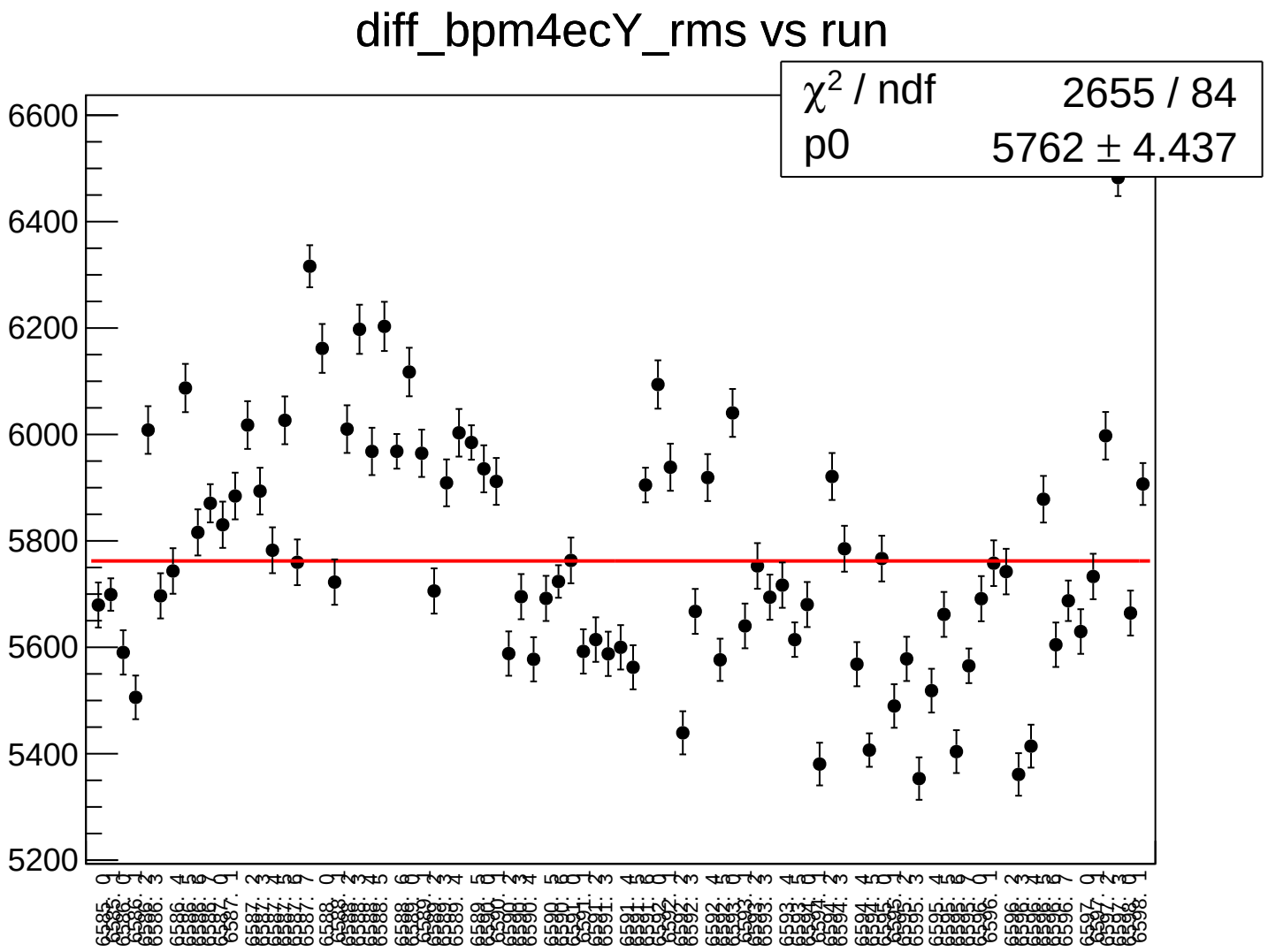

diff_bpm4ecX_mean vs run
χ^2 / ndf 120.3 / 84
p0 −0.6646 ± 8.284
pull
Entries 85
Mean 293
Std Dev 225.6
pull1D
Entries 85
Mean 0.009598
Std Dev 1.189

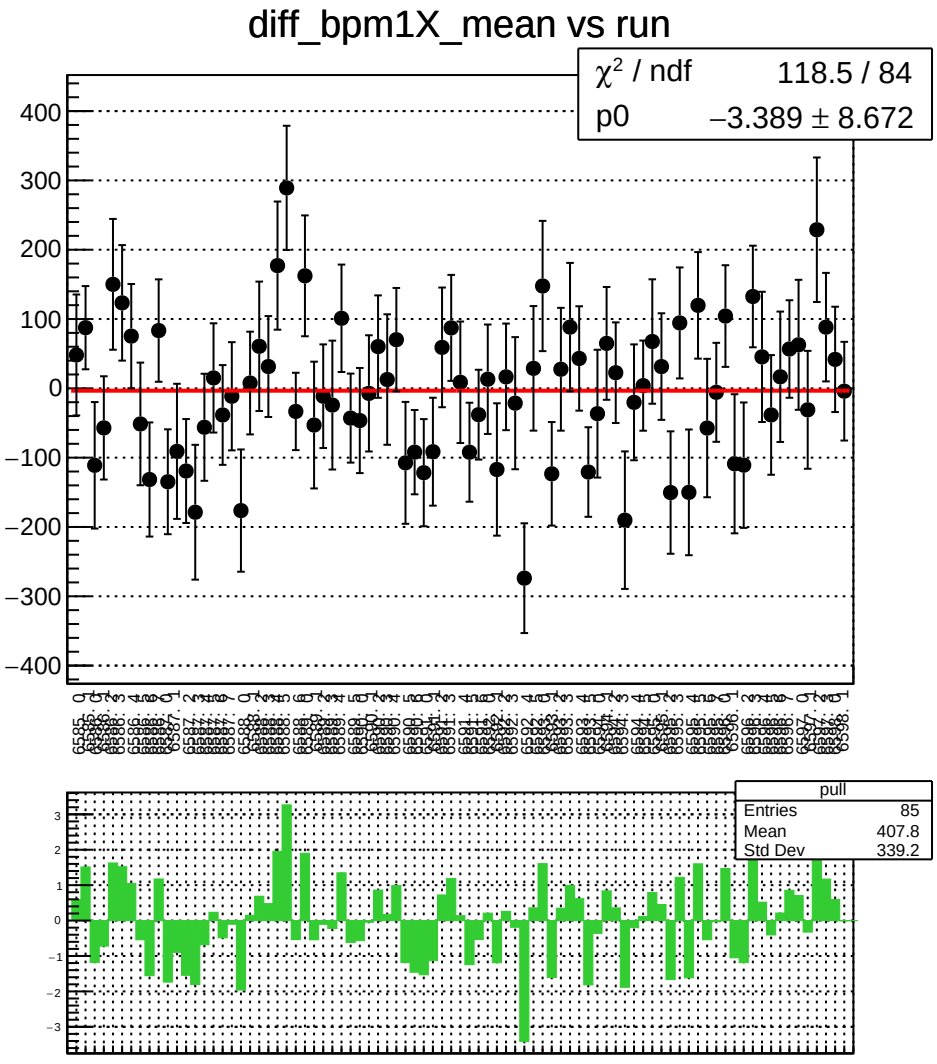
diff_bpm4ecX_rms vs run

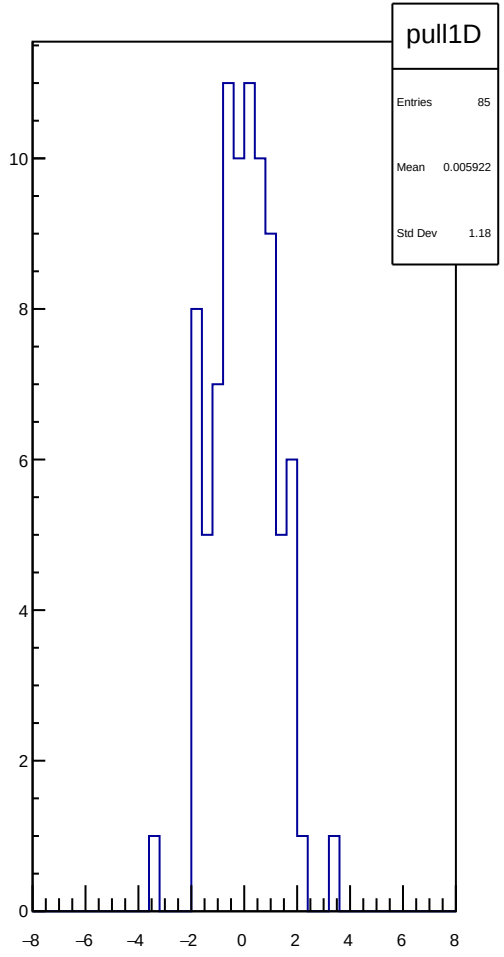


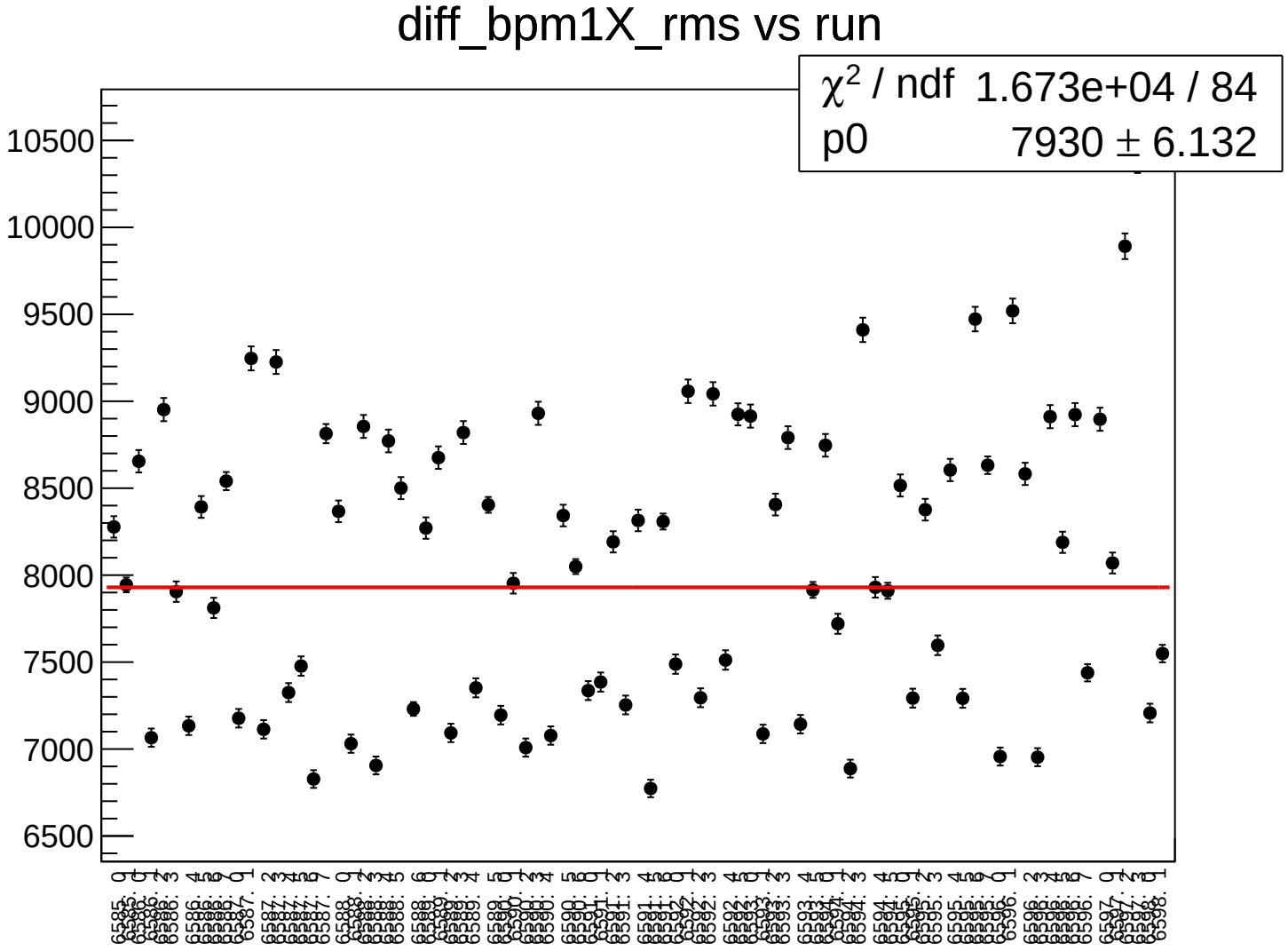

diff_bpm4ecY_mean vs run
χ^2 / ndf 91.7 / 84
p0 0.2042 ± 6.274
pull
Entries 85
Mean 377.7
Std Dev 329.9

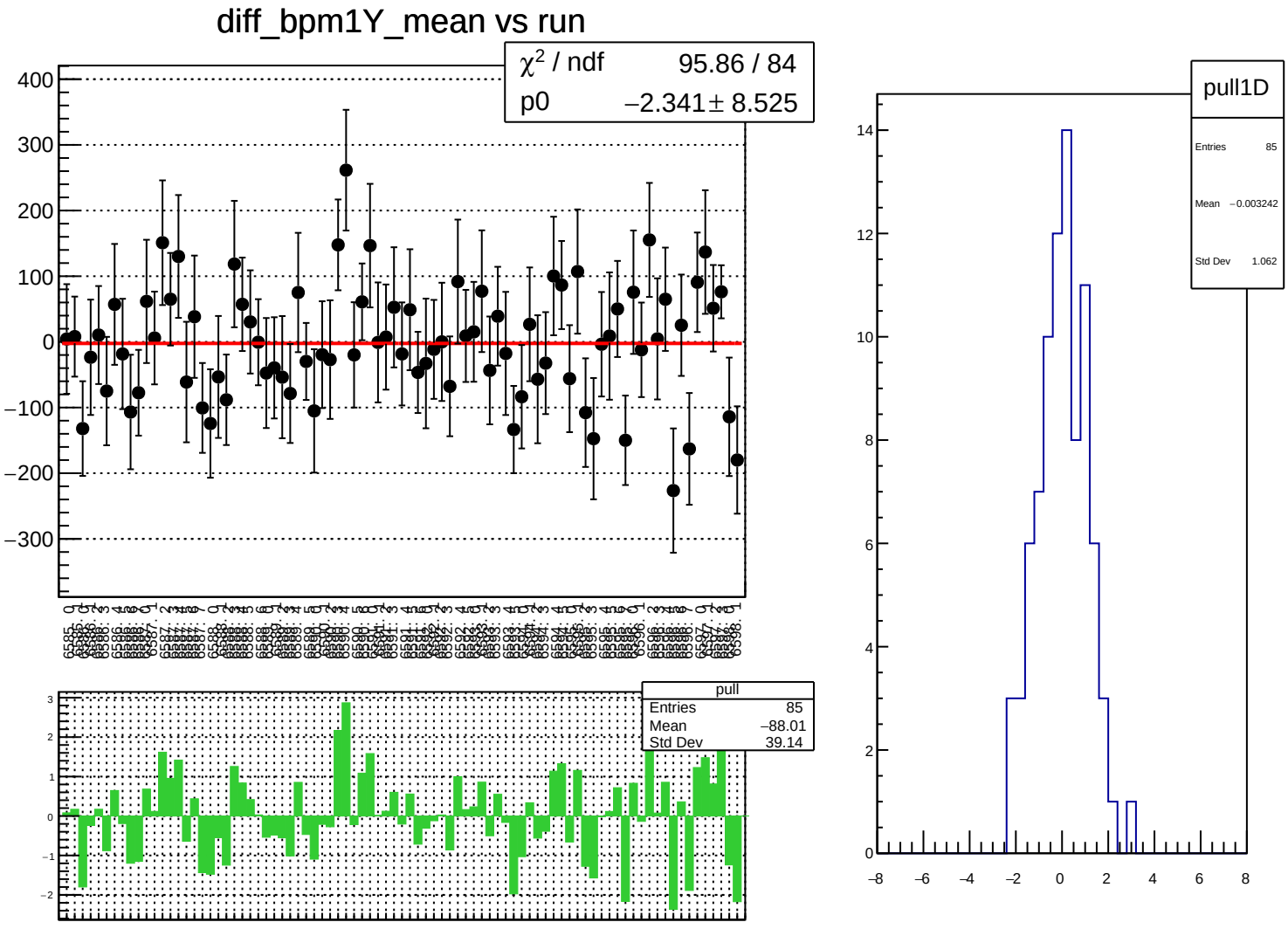

pull1D
Entries 85
Mean 0.006818
Std Dev 1.039

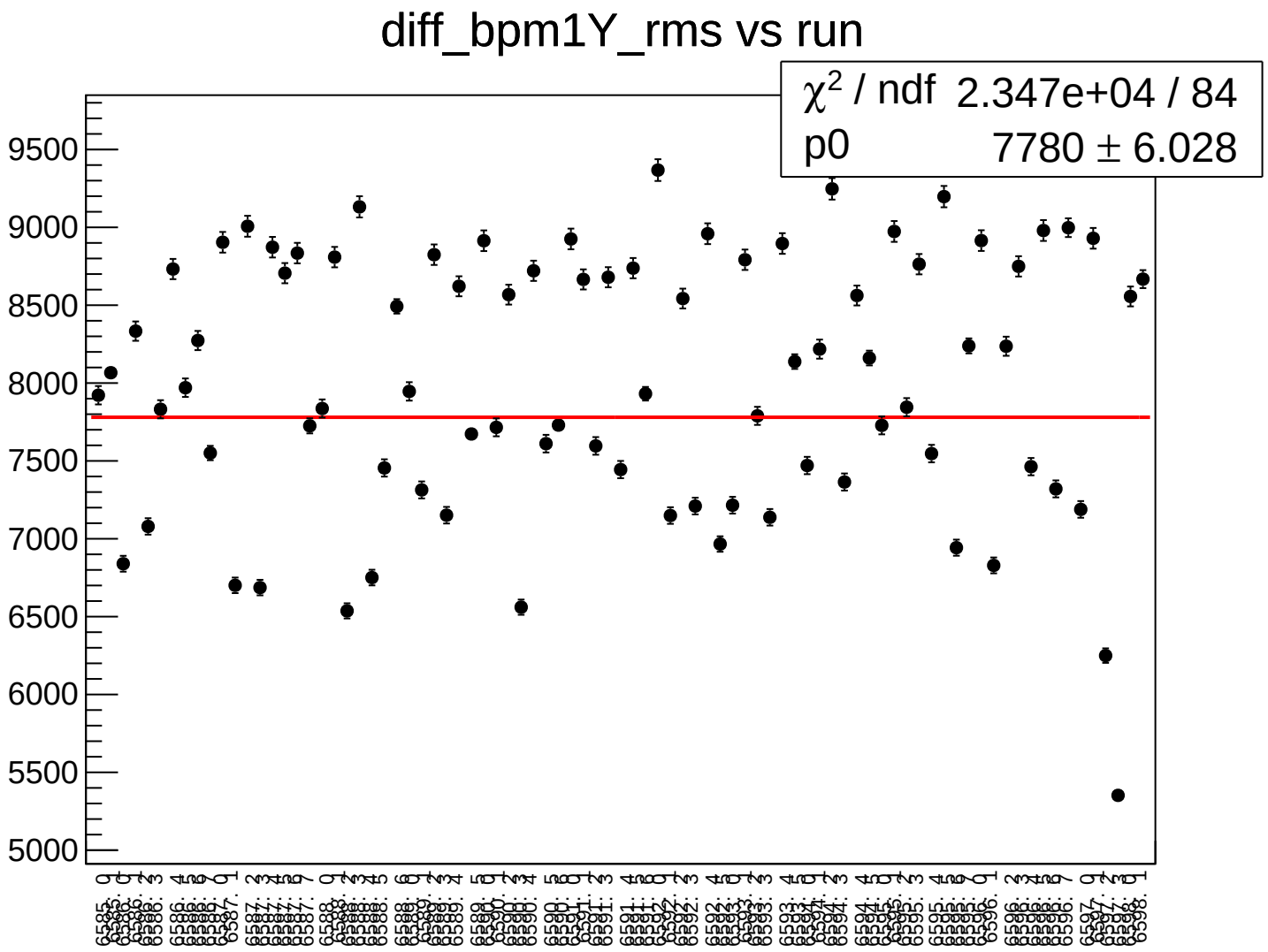

diff_bpm4ecY_rms vs run
χ² / ndf 2655 / 84
p0 5762 ± 4.437
6600
6400
6200
6000
5800
5600
5400
5200

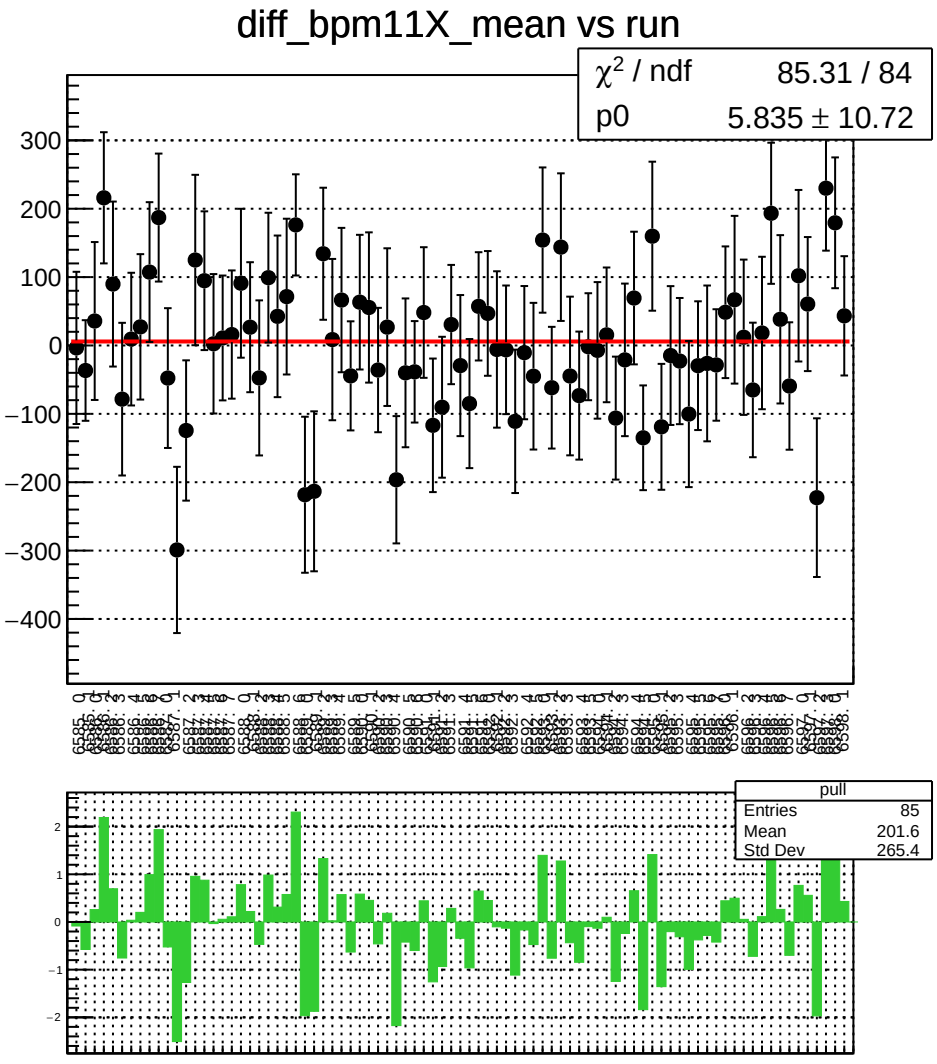

diff_bpm1X_mean vs run
χ² / ndf 118.5 / 84
p0 −3.389 ± 8.672
pull
Entries 85
Mean 407.8
Std Dev 339.2

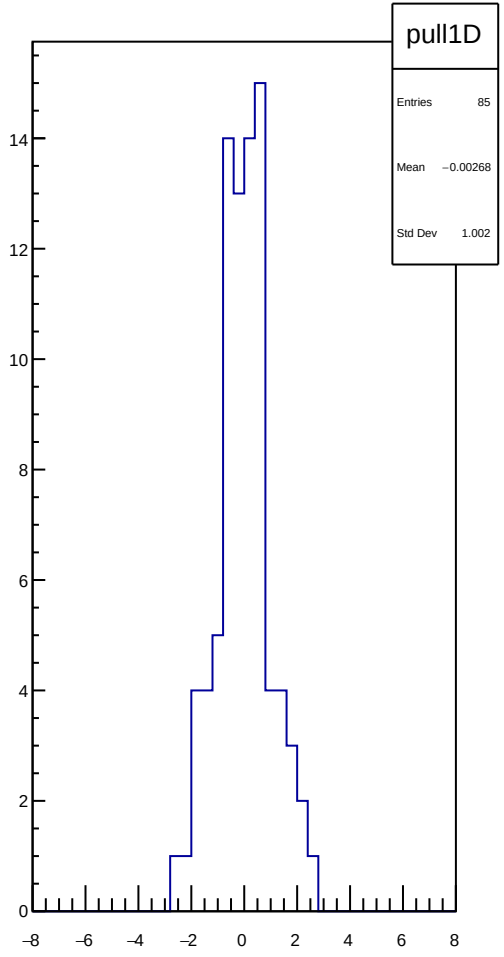

pull1D
Entries 85
Mean 0.005922
Std Dev 1.18


diff_bpm1X_rms vs run
χ² / ndf 1.673e+04 / 84
p0 7930 ± 6.132
10500
10000
9500
9000
8500
8000
7500
7000
6500

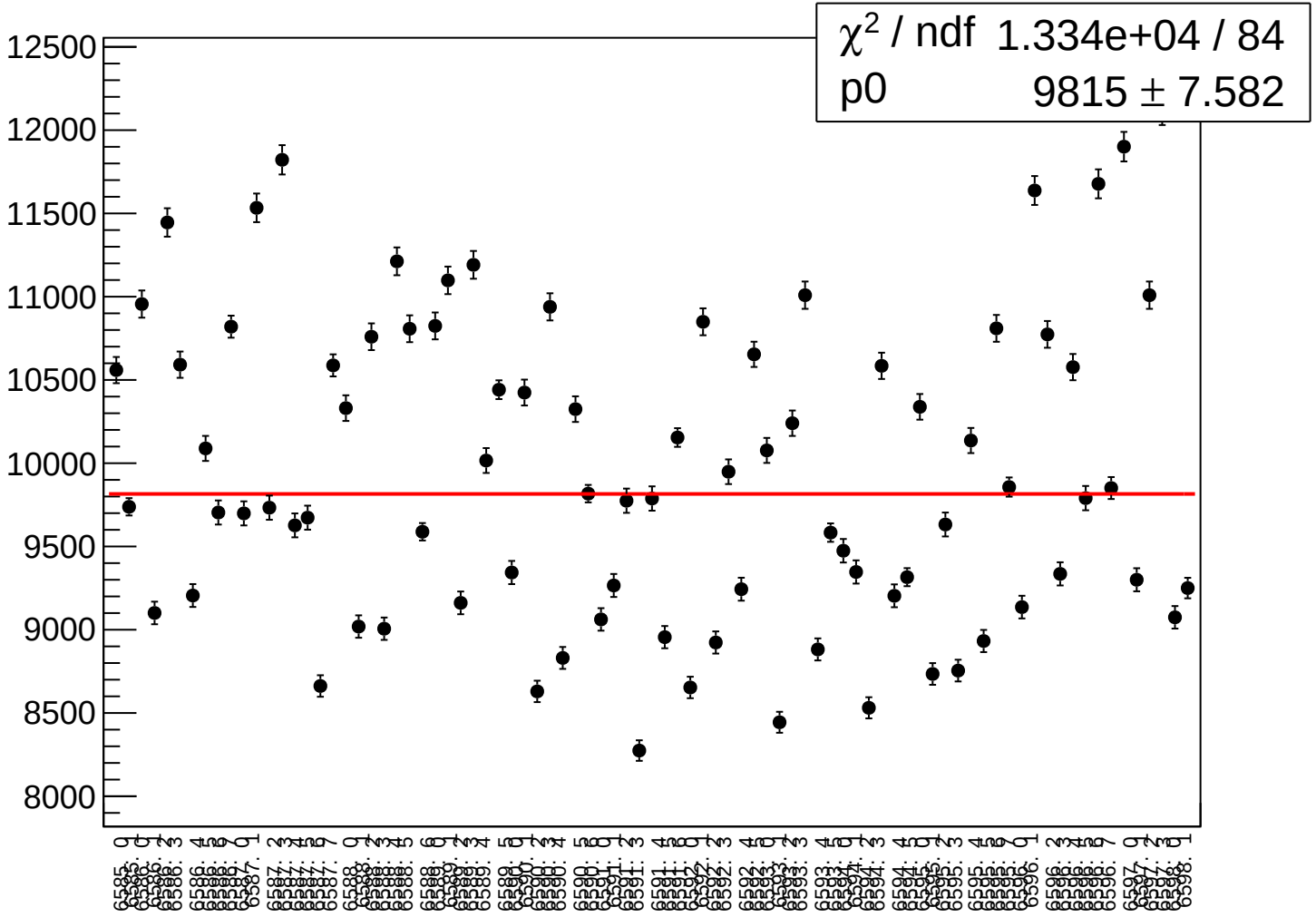

diff_bpm1Y_mean vs run
χ² / ndf 95.86 / 84
p0 −2.341 ± 8.525
pull
Entries 85
Mean −88.01
Std Dev 39.14
pull1D
Entries 85
Mean −0.003242
Std Dev 1.062

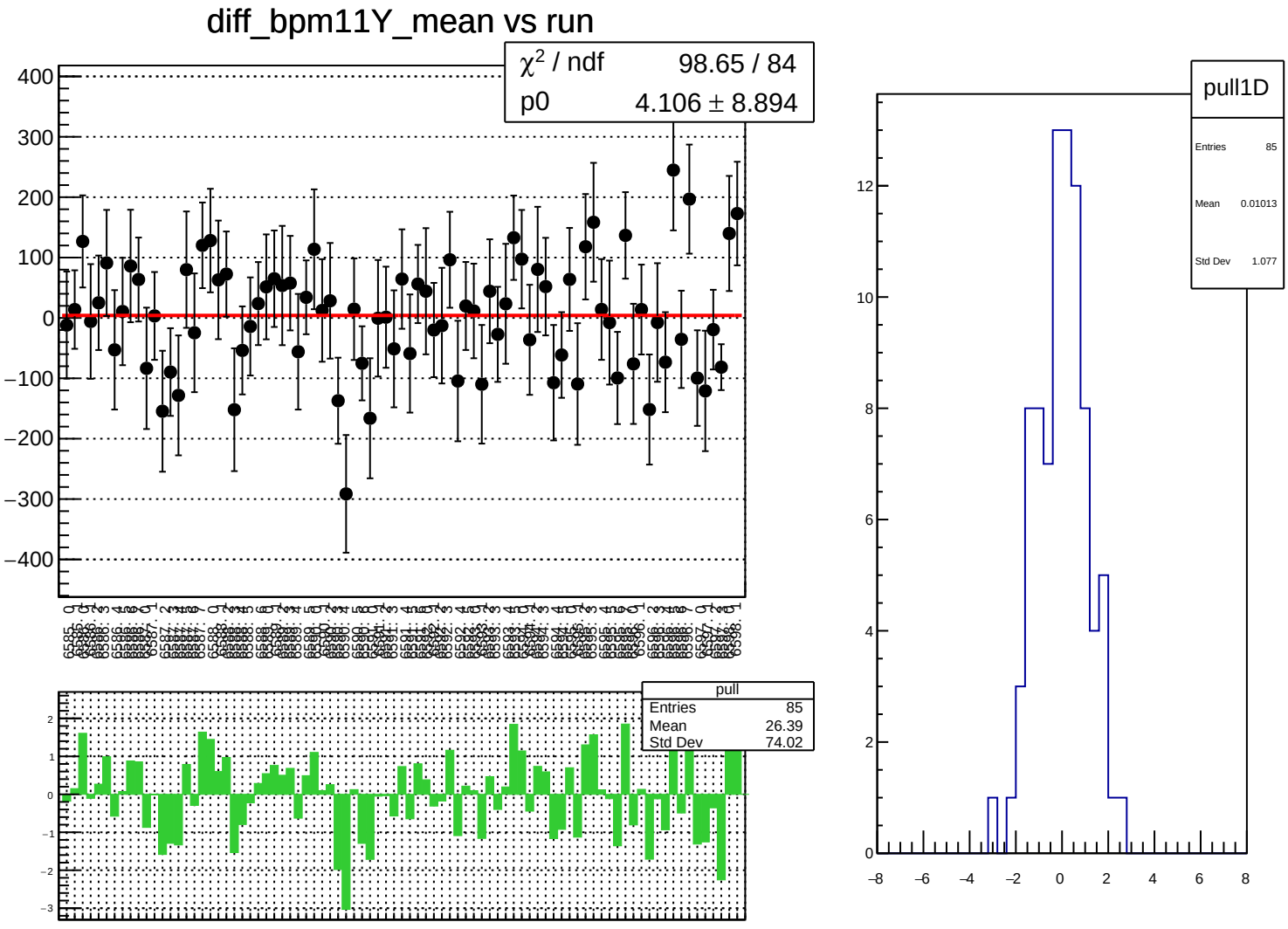

diff_bpm1Y_rms vs run
χ^2 / ndf 2.347e+04 / 84
p0 7780 ± 6.028
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

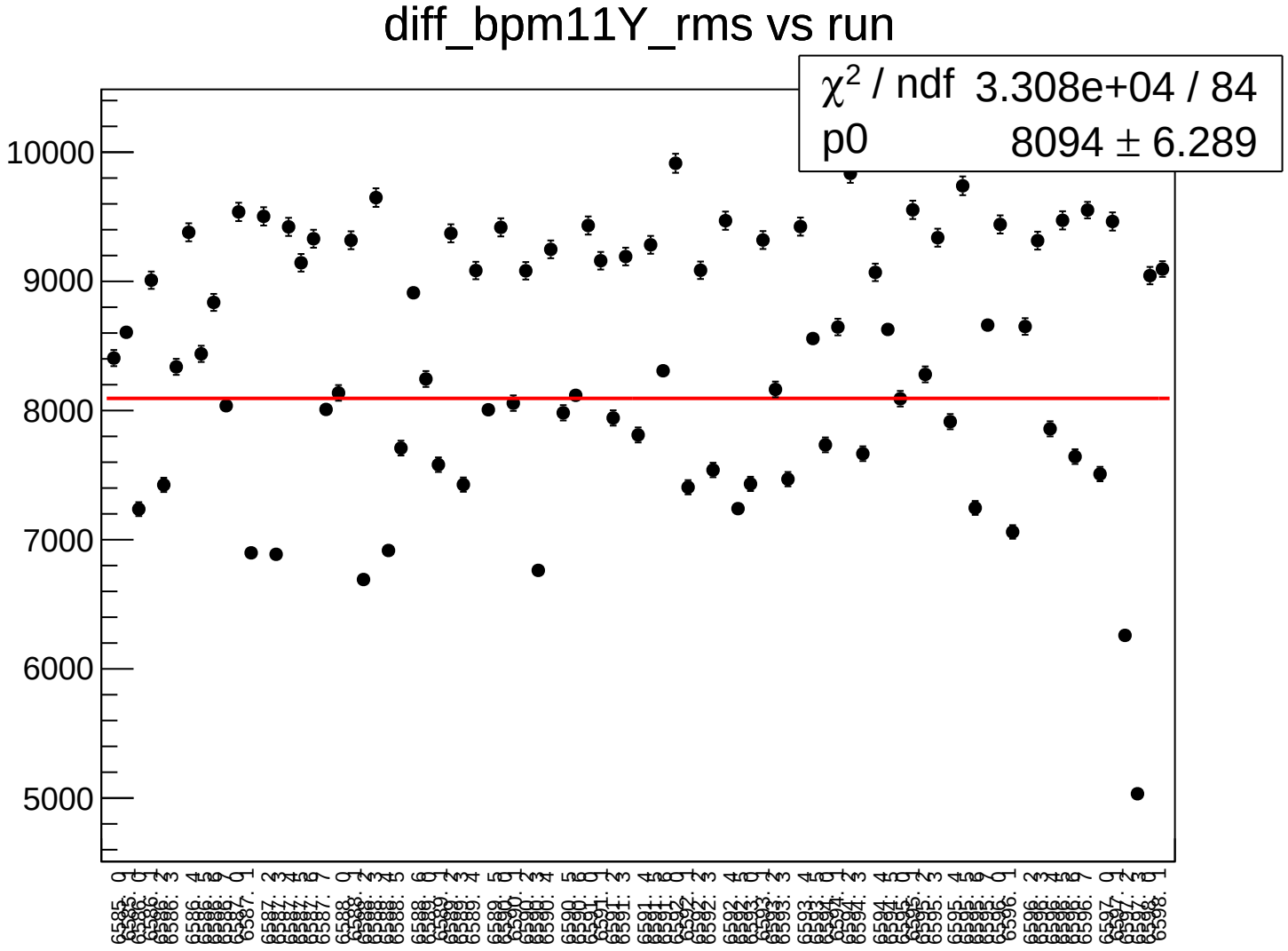

diff_bpm11X_mean vs run
χ² / ndf 85.31 / 84
p0 5.835 ± 10.72
pull
Entries 85
Mean 201.6
Std Dev 265.4

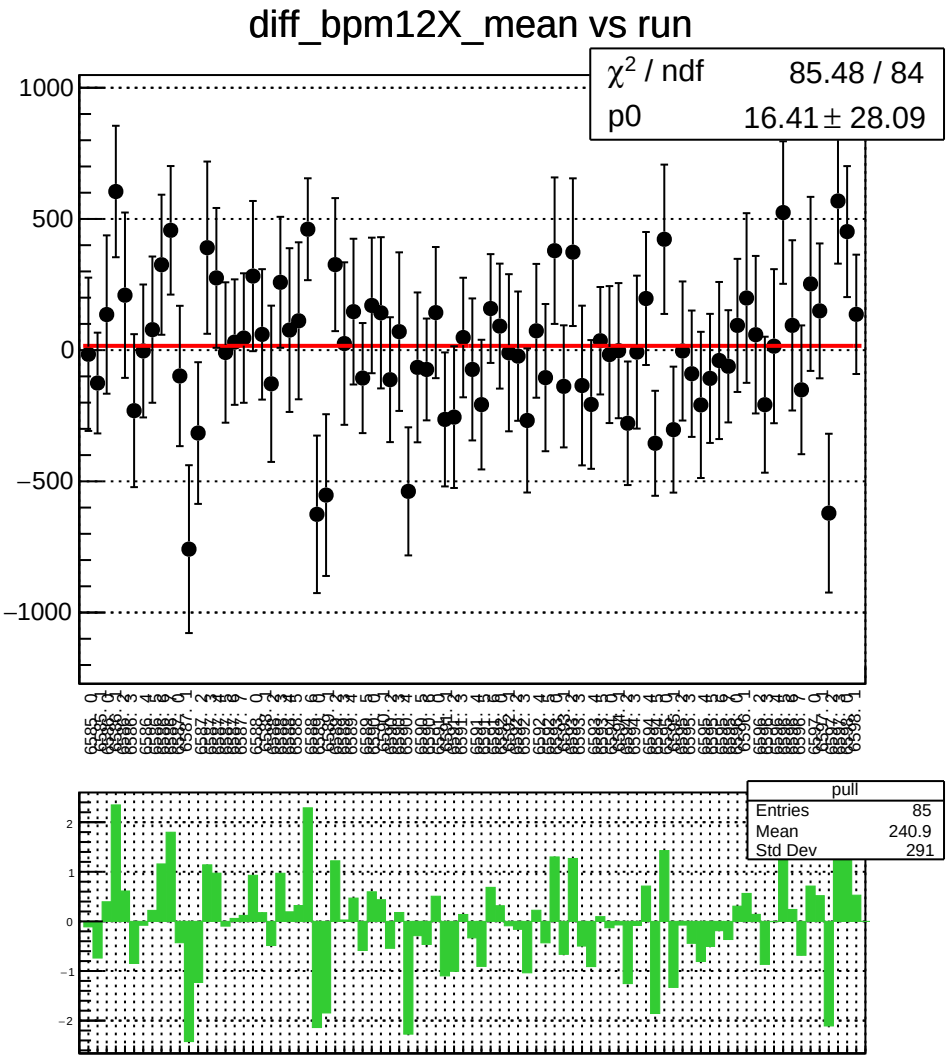

pull1D
Entries 85
Mean −0.00268
Std Dev 1.002

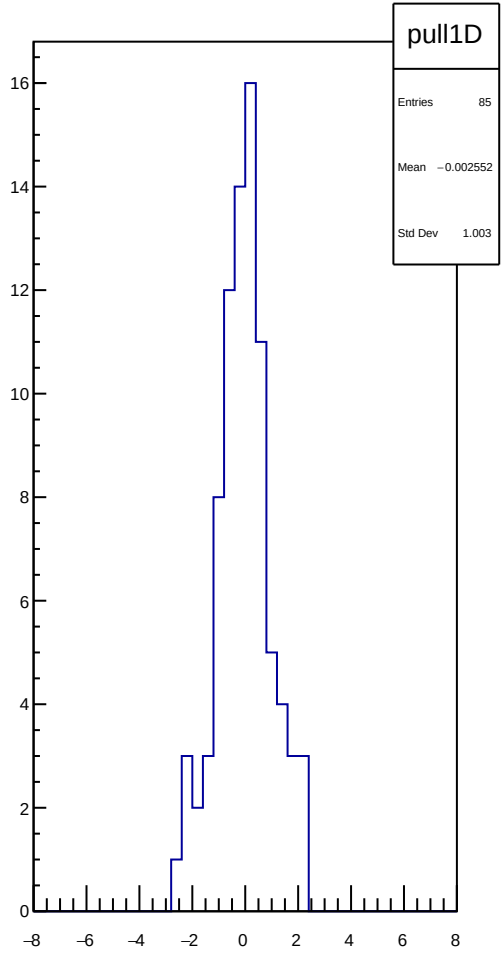
diff_bpm11X_rms vs run



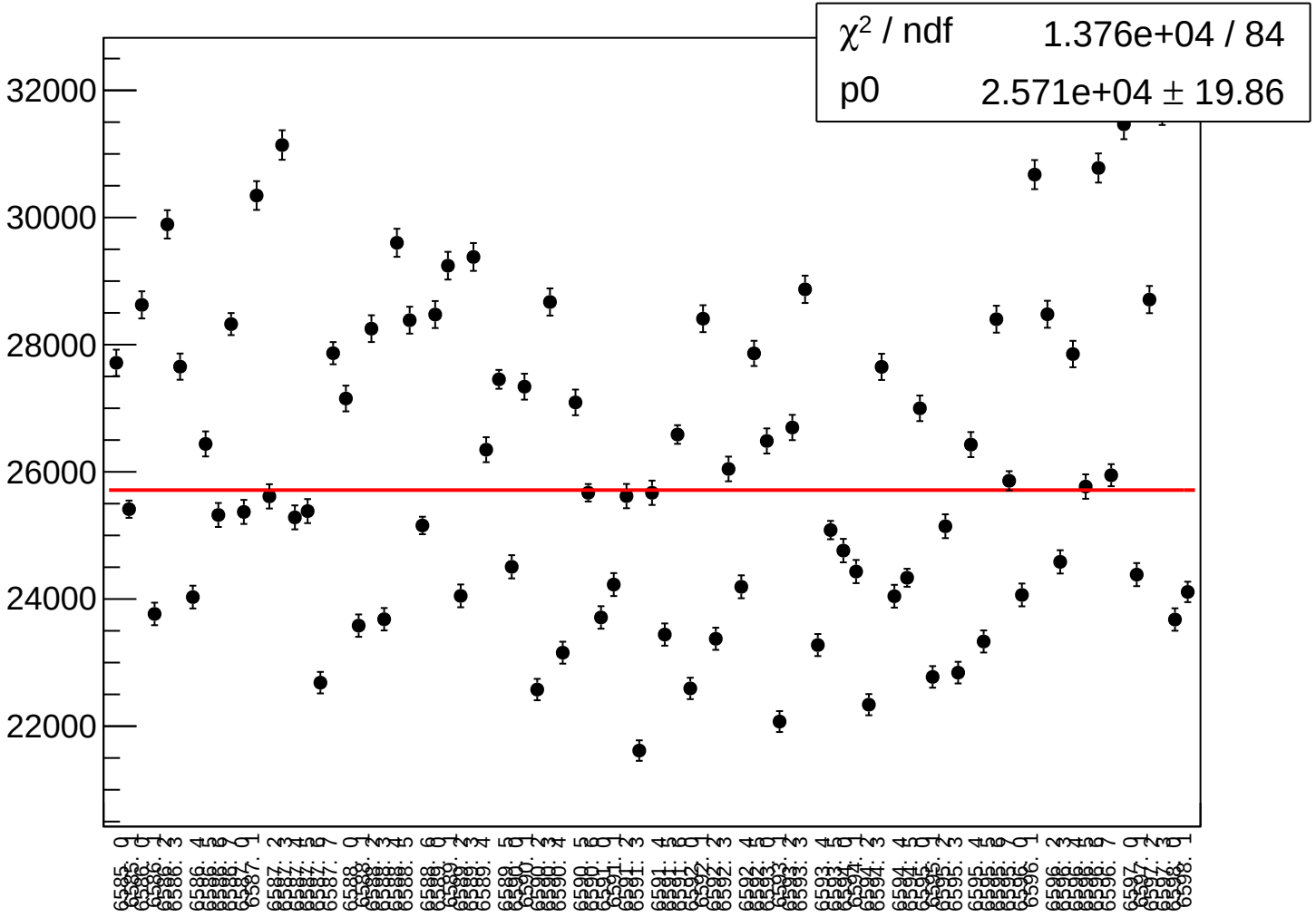

diff_bpm11Y_mean vs run
χ^2 / ndf 98.65 / 84
p0 4.106 ± 8.894
pull
Entries 85
Mean 26.39
Std Dev 74.02
pull1D
Entries 85
Mean 0.01013
Std Dev 1.077

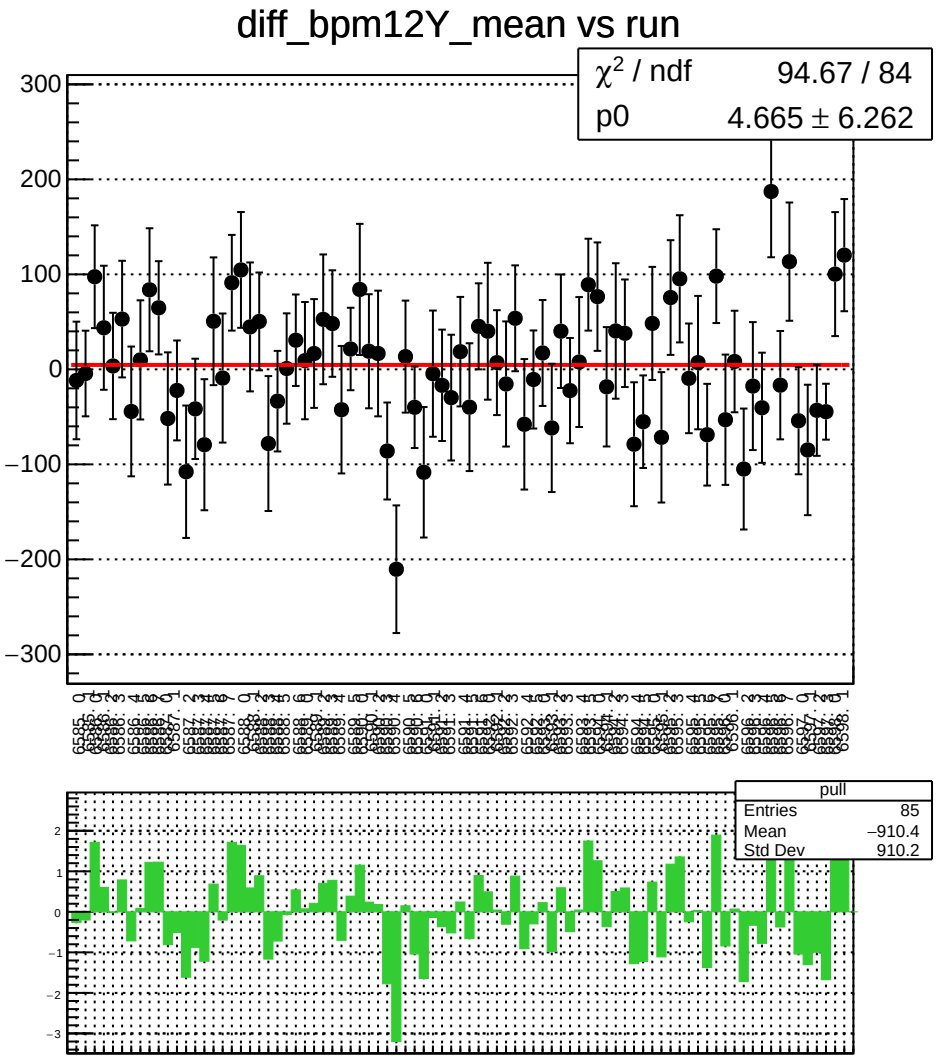

diff_bpm11Y_rms vs run
χ^2 / ndf 3.308e+04 / 84
p0 8094 ± 6.289
10000
9000
8000
7000
6000
5000

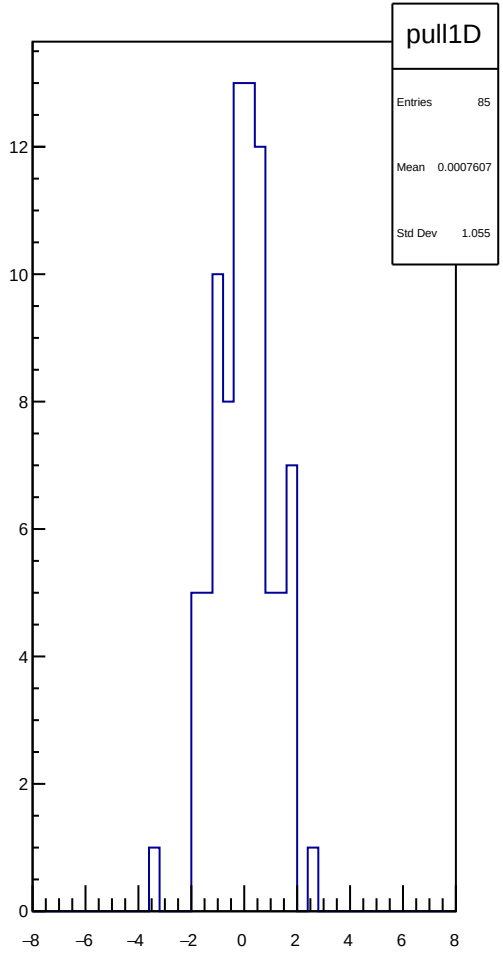

diff_bpm12X_mean vs run
χ² / ndf 85.48 / 84
p0 16.41 ± 28.09
1000
500
0
−500
−1000
pull
Entries 85
Mean 240.9
Std Dev 291
2
1
0
−1
−2

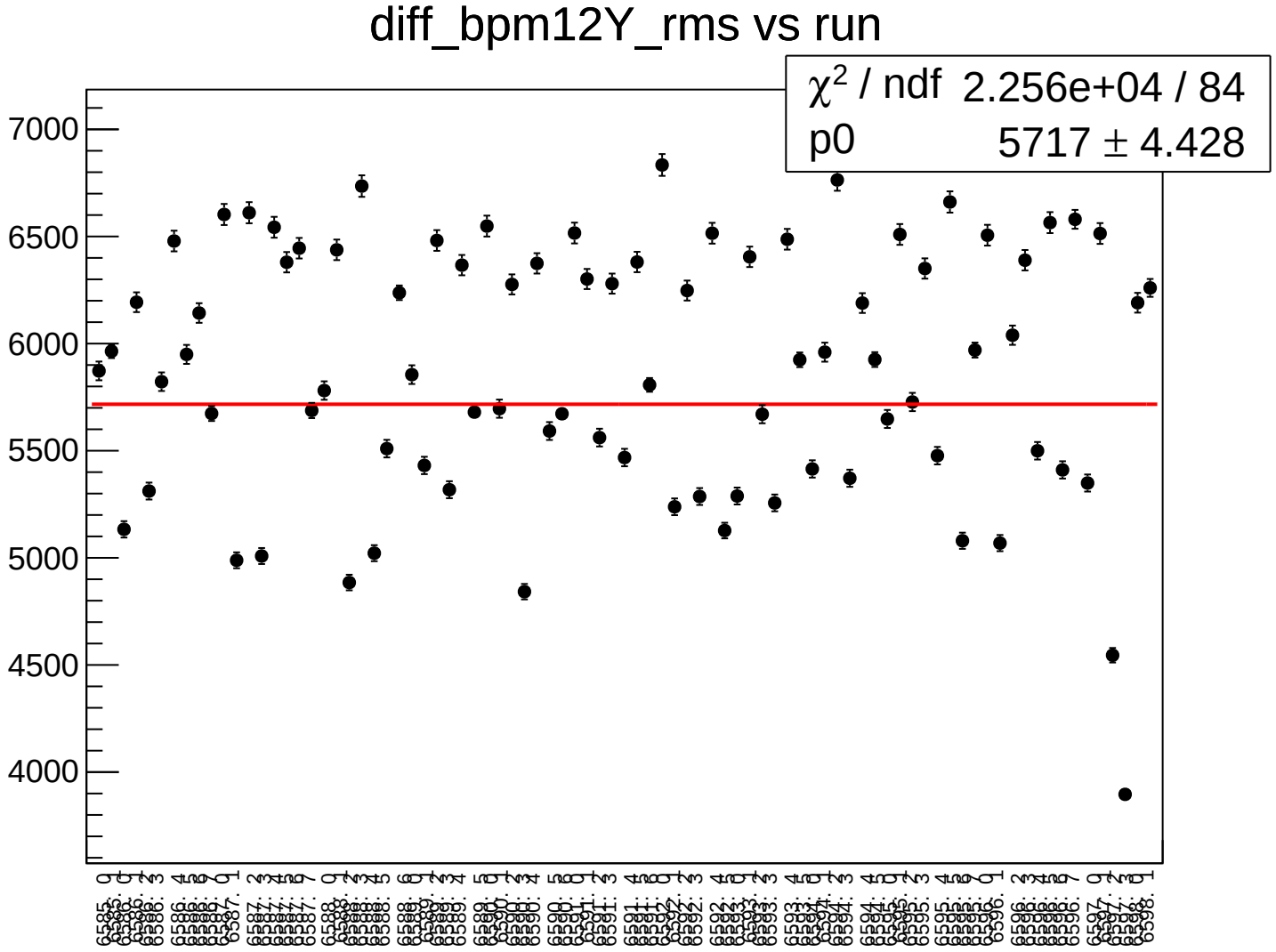

pull1D
Entries 85
Mean −0.002552
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

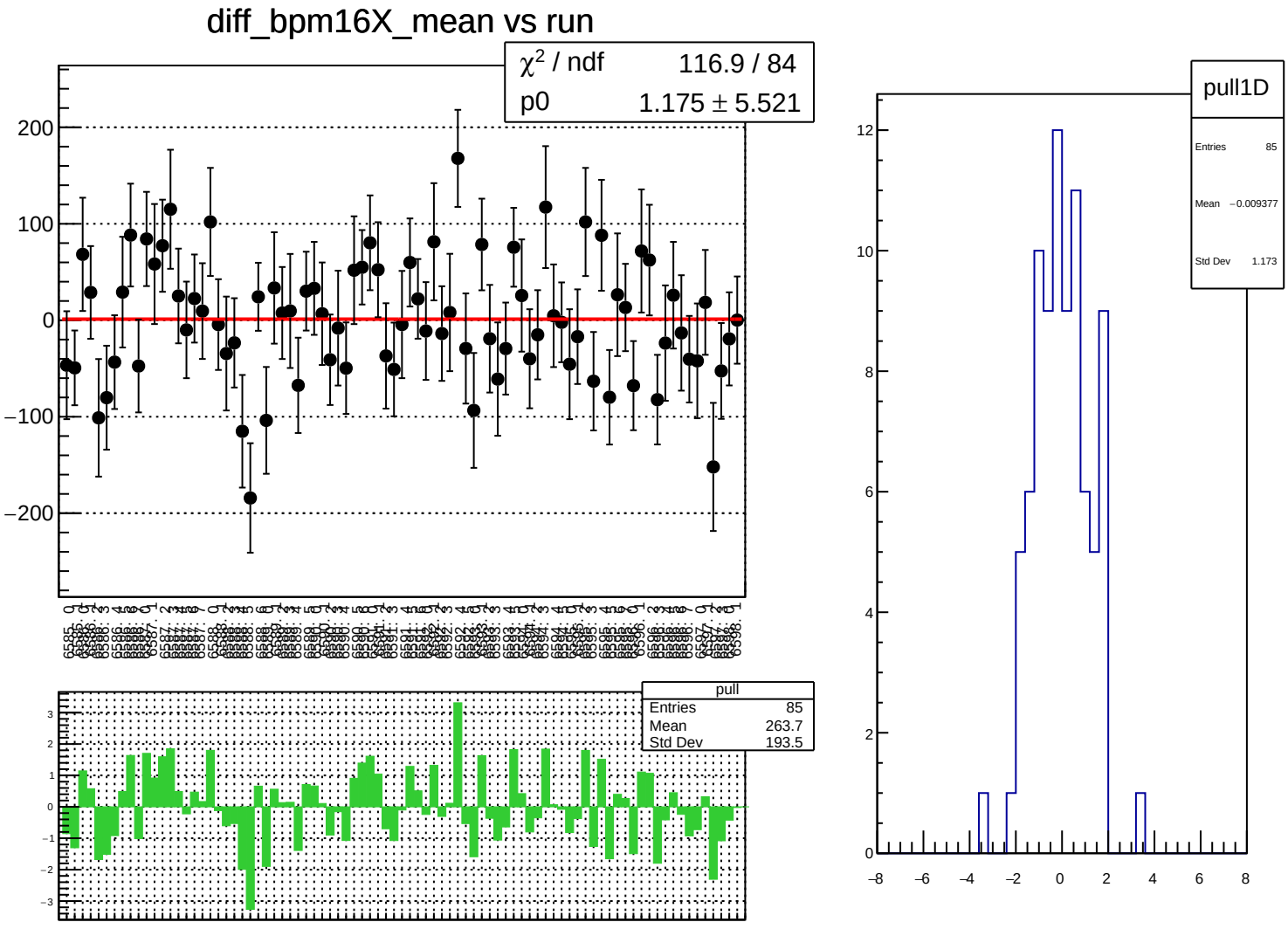
diff_bpm12X_rms vs run



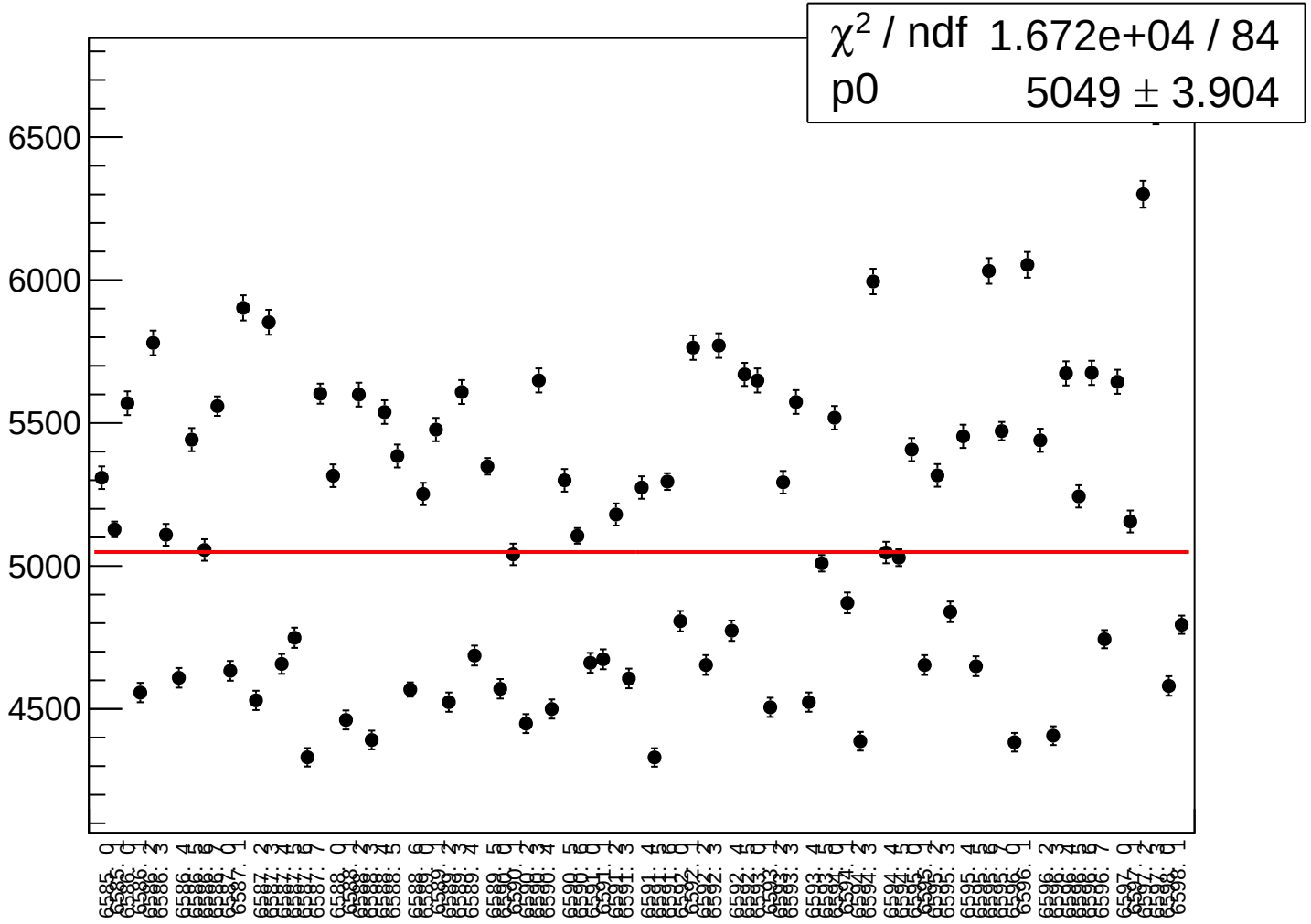

diff_bpm12Y_mean vs run
χ² / ndf 94.67 / 84
p0 4.665 ± 6.262
pull
Entries 85
Mean −910.4
Std Dev 910.2

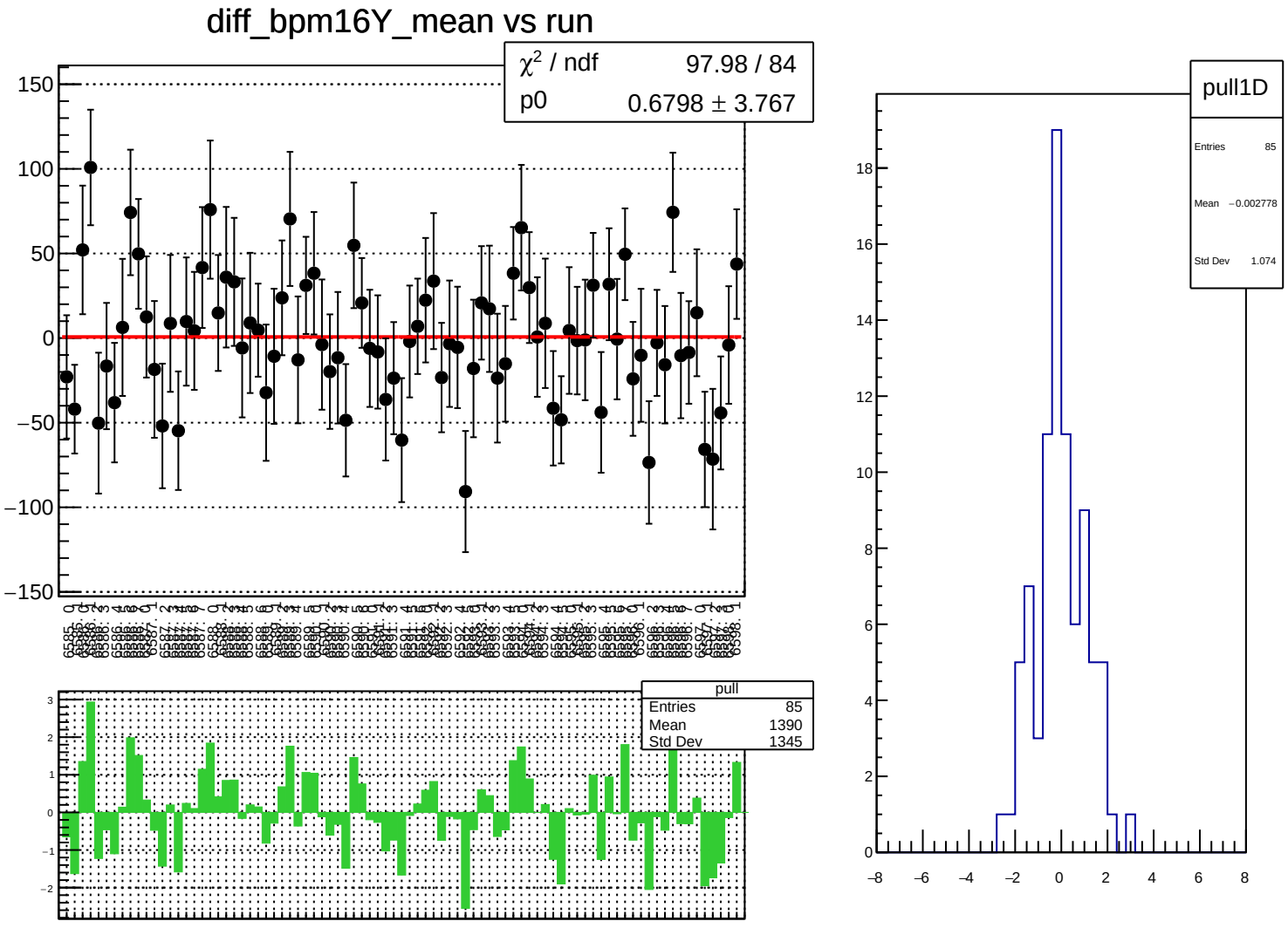

pull1D
Entries 85
Mean 0.0007607
Std Dev 1.055


diff_bpm12Y_rms vs run
χ^2 / ndf 2.256e+04 / 84
p0 5717 ± 4.428
7000
6500
6000
5500
5000
4500
4000

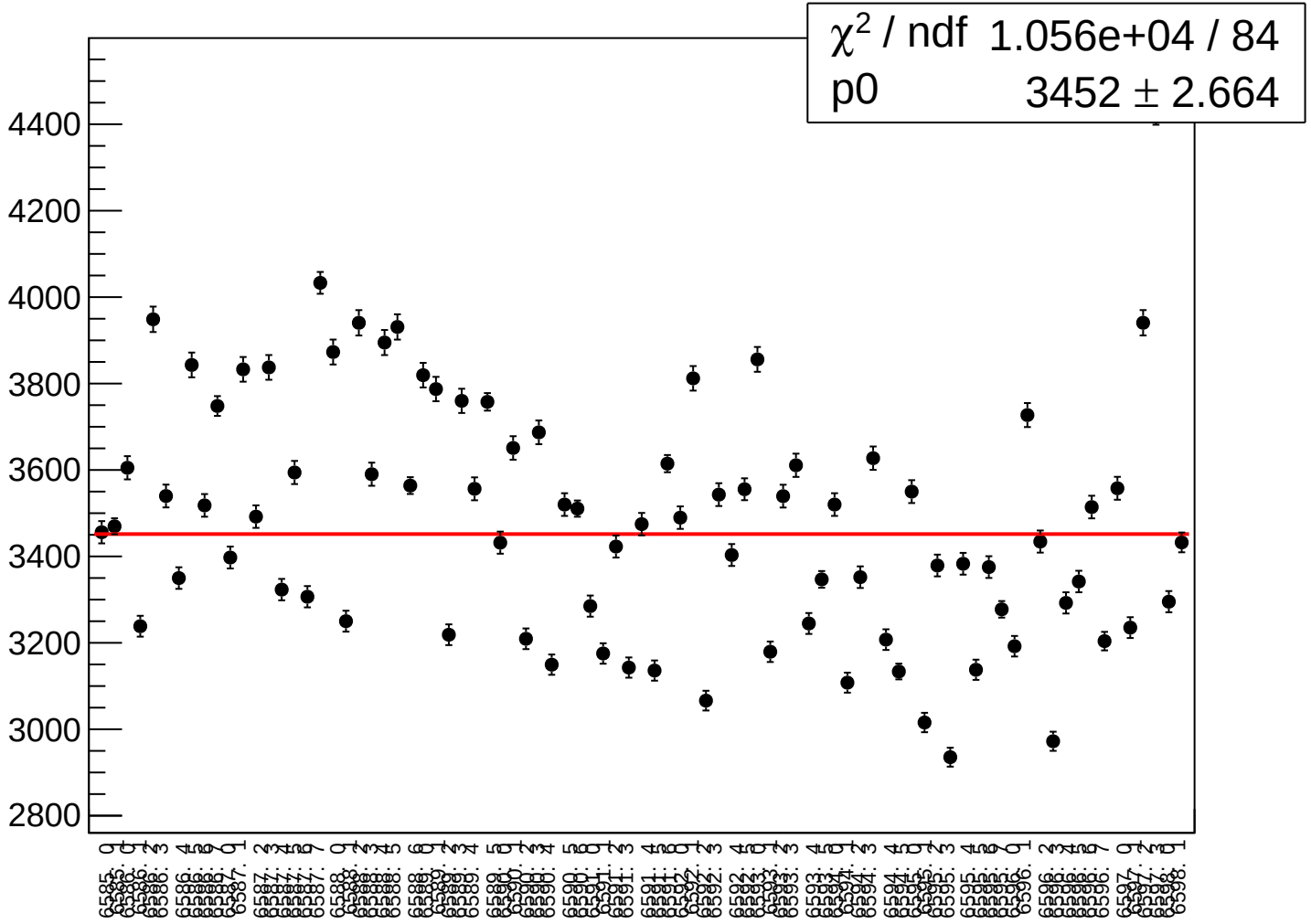

diff_bpm16X_mean vs run
χ² / ndf 116.9 / 84
p0 1.175 ± 5.521
pull
Entries 85
Mean 263.7
Std Dev 193.5
pull1D
Entries 85
Mean −0.009377
Std Dev 1.173

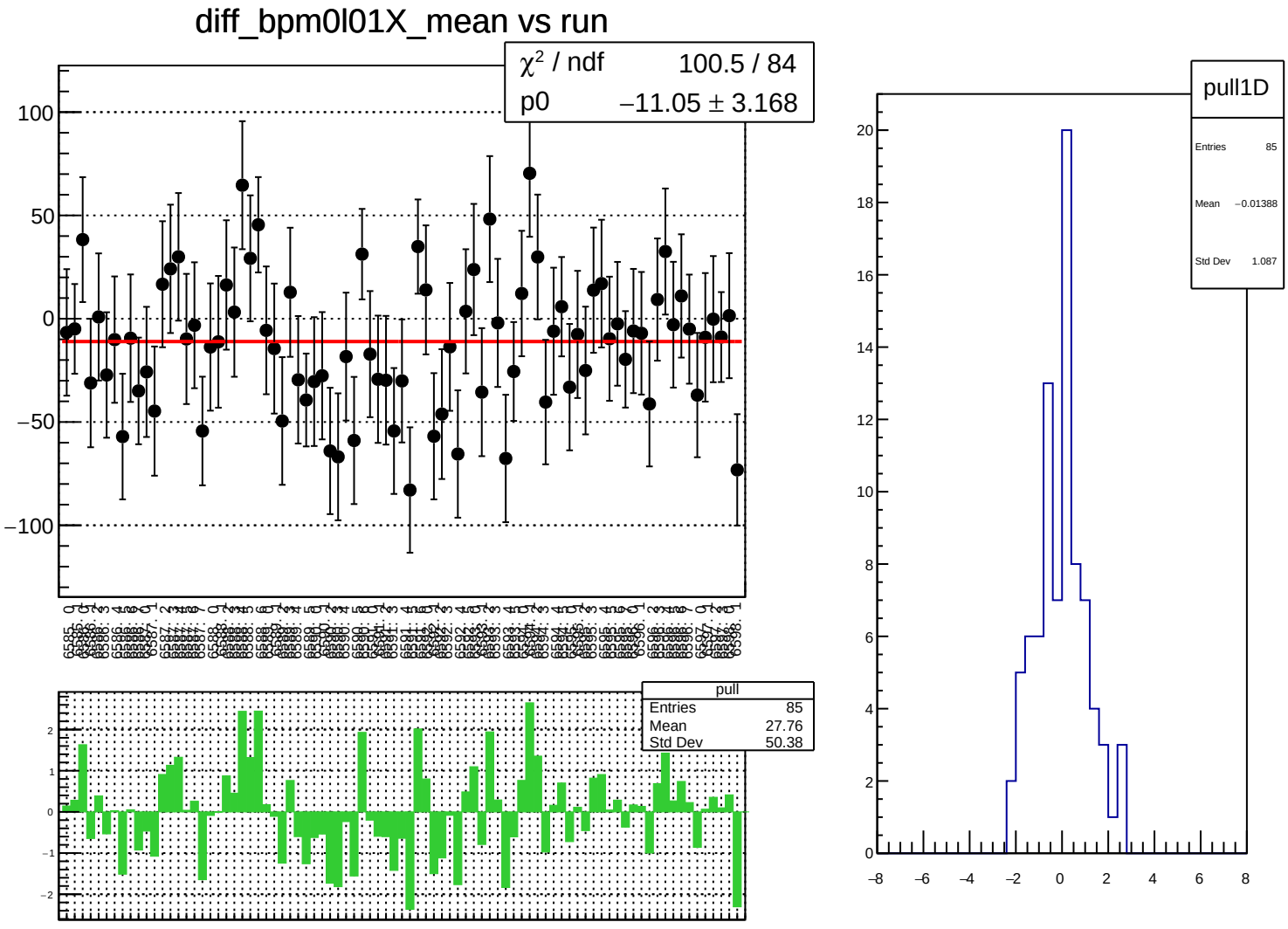
diff_bpm16X_rms vs run

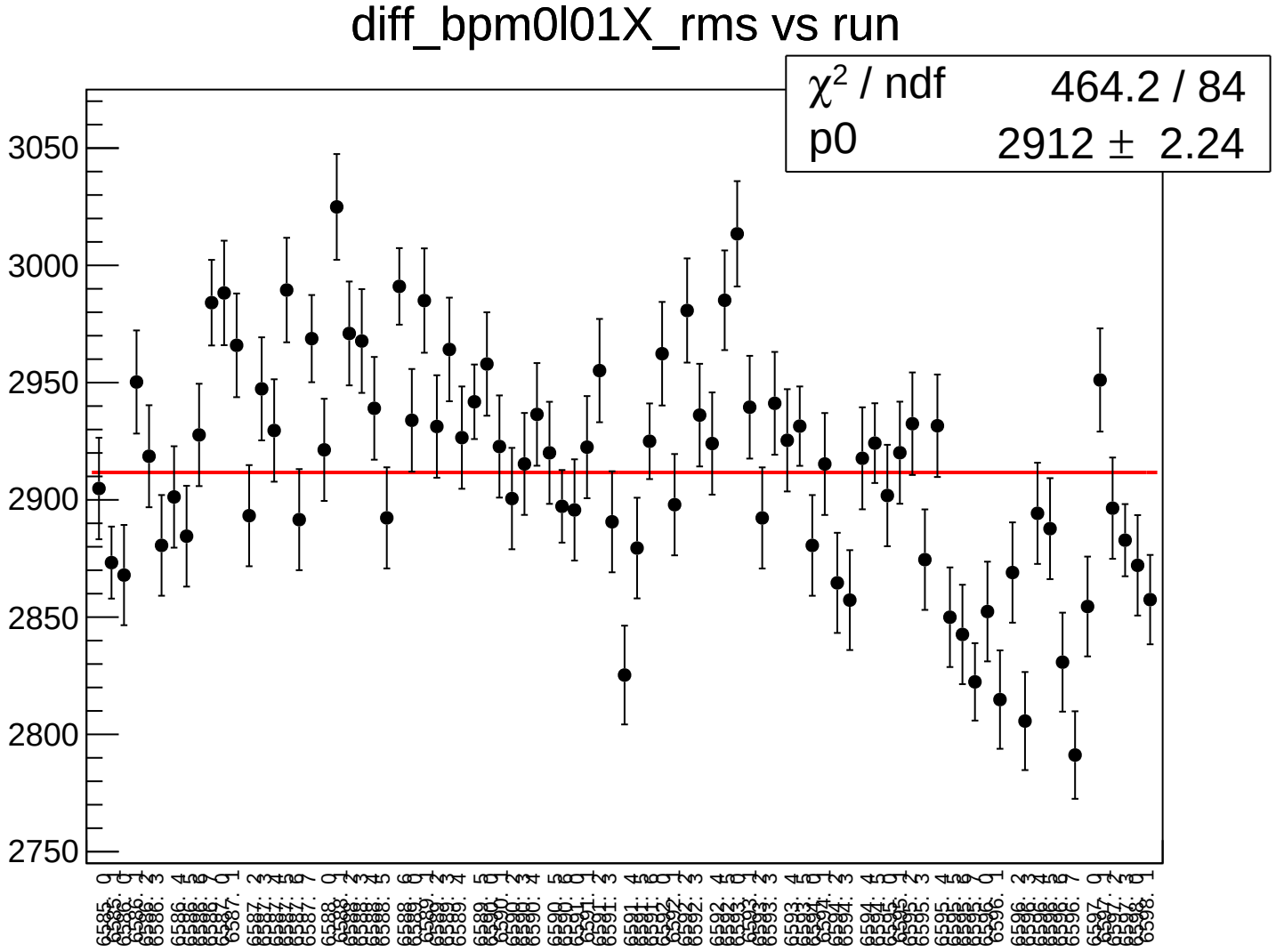


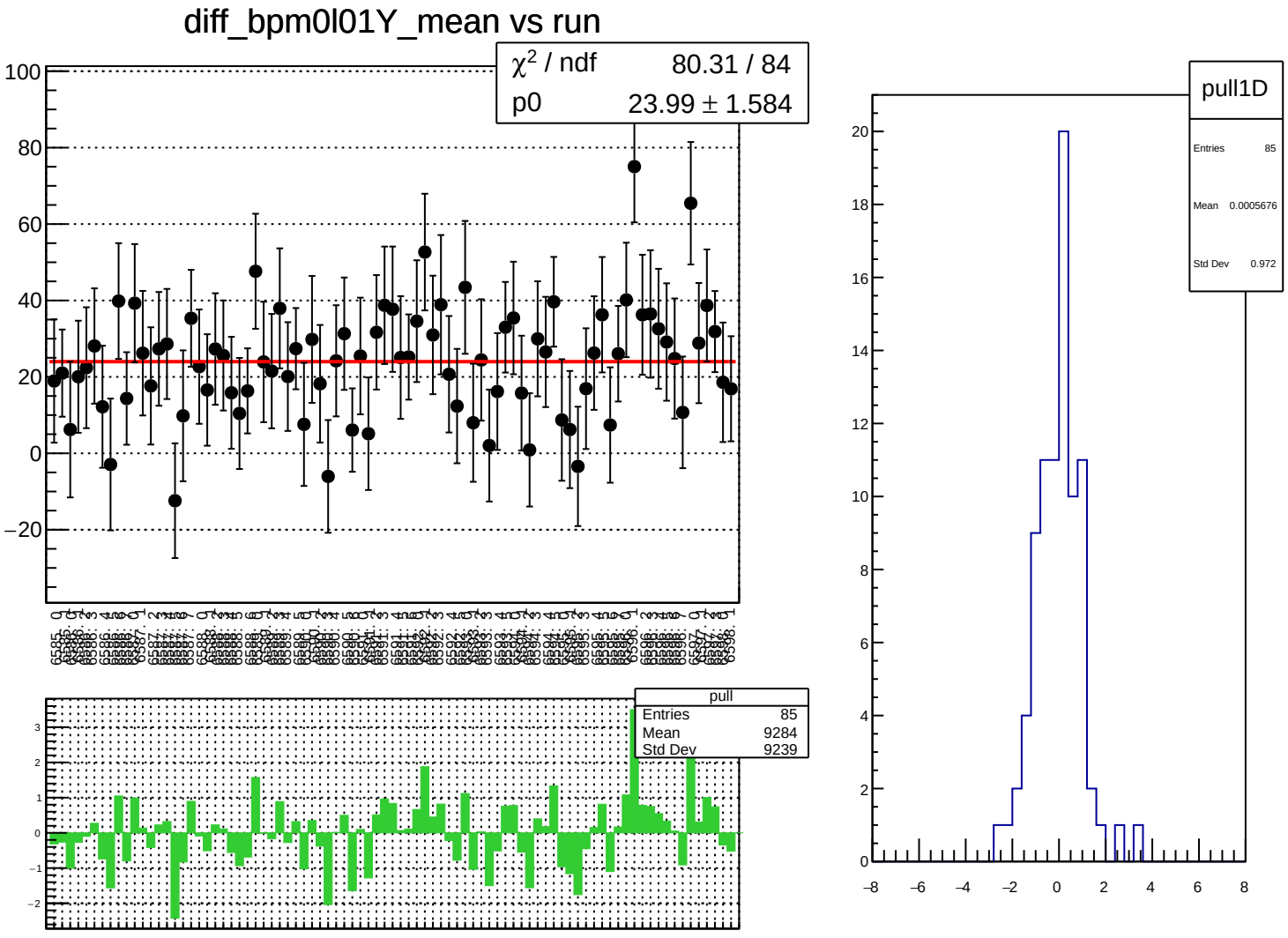

diff_bpm16Y_mean vs run
χ^2 / ndf 97.98 / 84
p0 0.6798 ± 3.767
pull
Entries 85
Mean 1390
Std Dev 1345
pull1D
Entries 85
Mean −0.002778
Std Dev 1.074

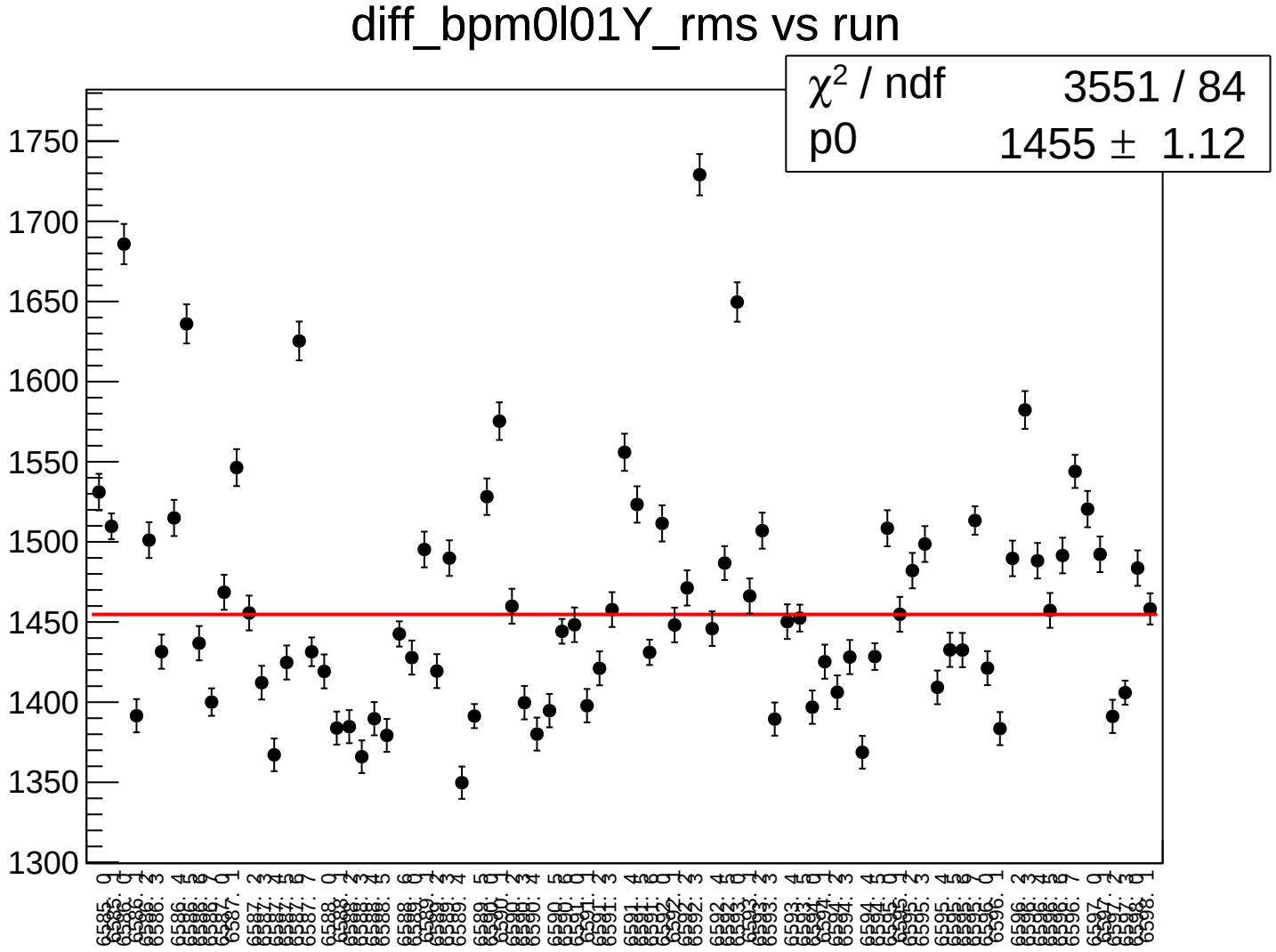
diff_bpm16Y_rms vs run

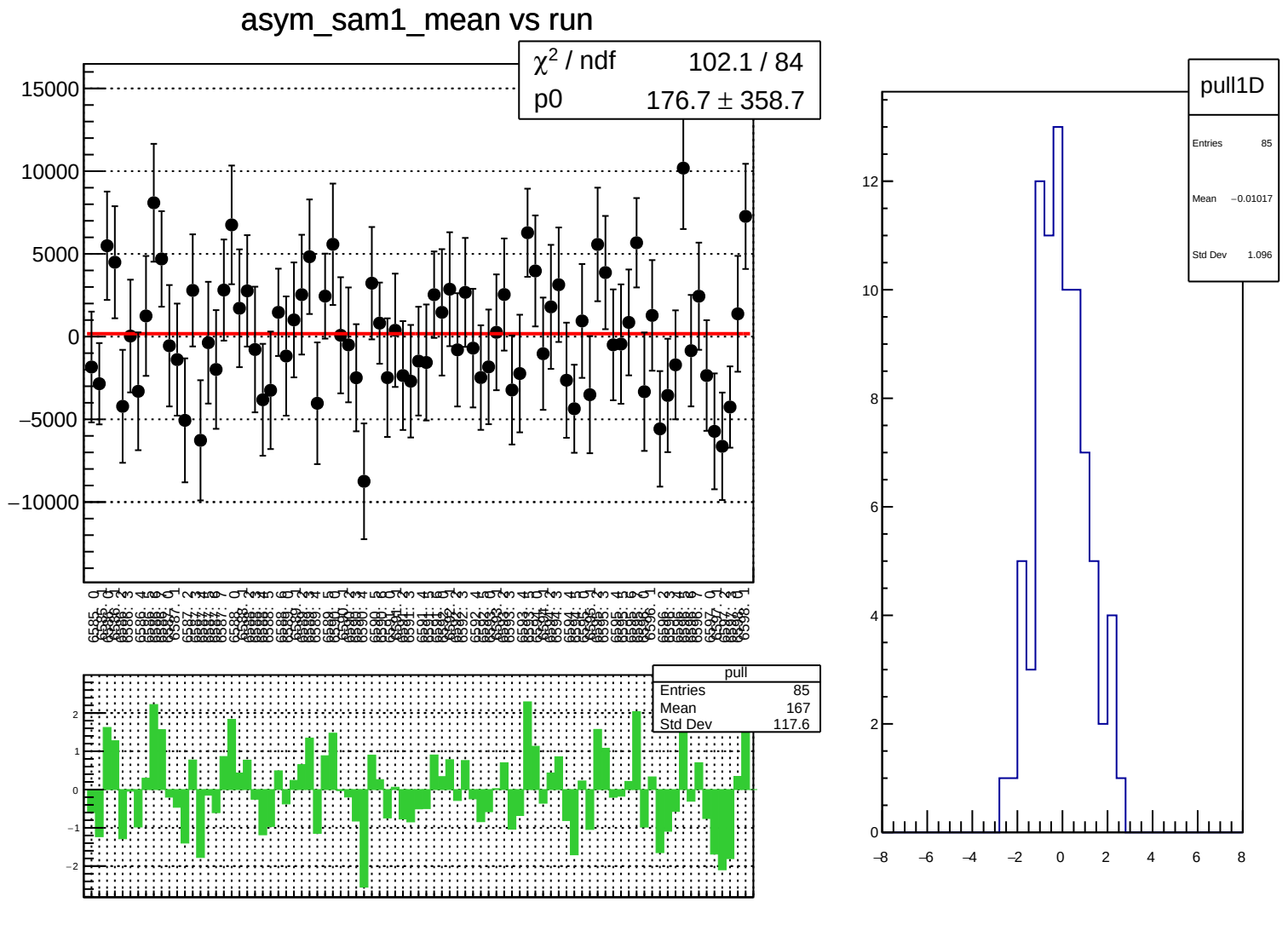


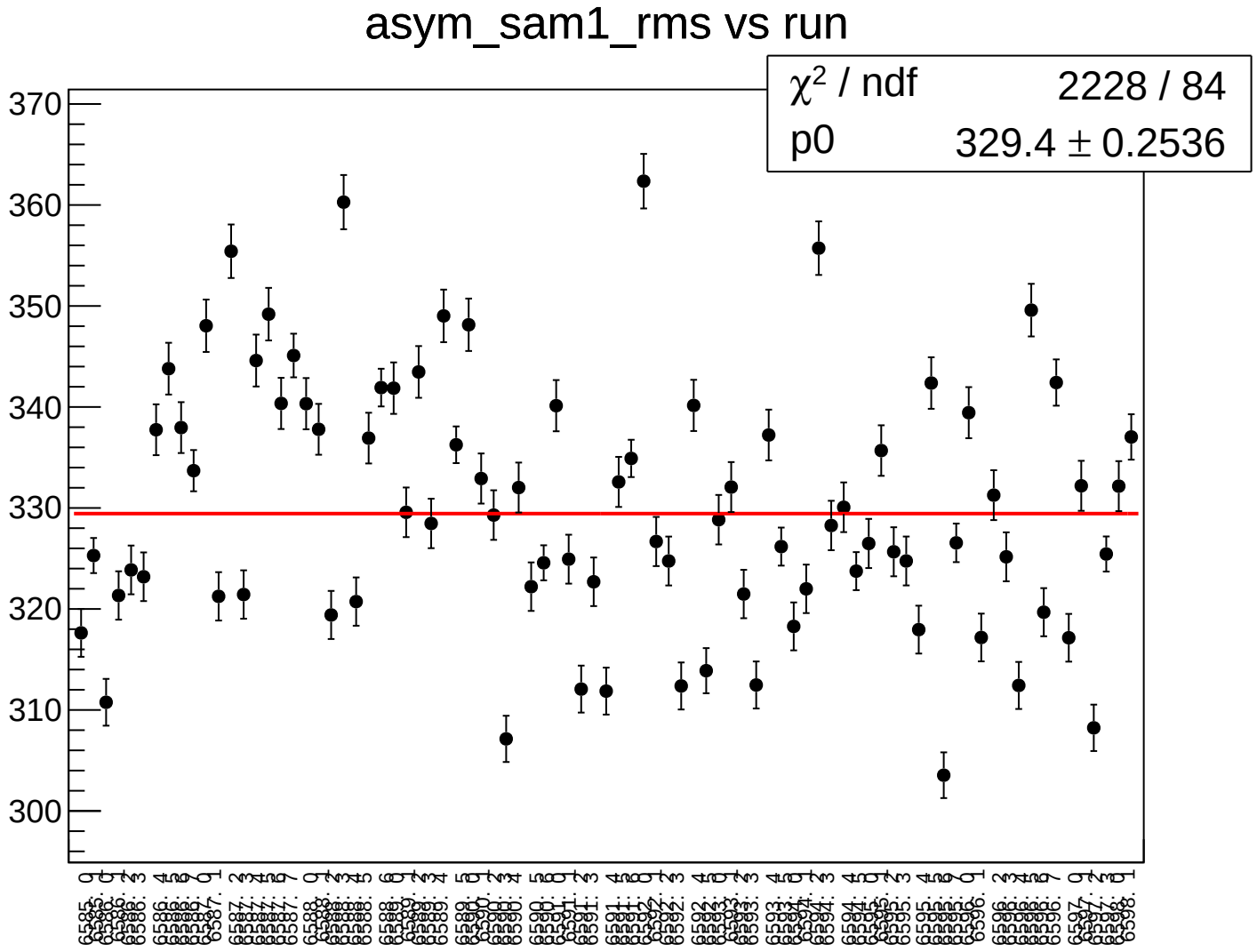

diff_bpm0l01X_mean vs run
χ² / ndf 100.5 / 84
p0 −11.05 ± 3.168
pull
Entries 85
Mean 27.76
Std Dev 50.38
pull1D
Entries 85
Mean −0.01388
Std Dev 1.087

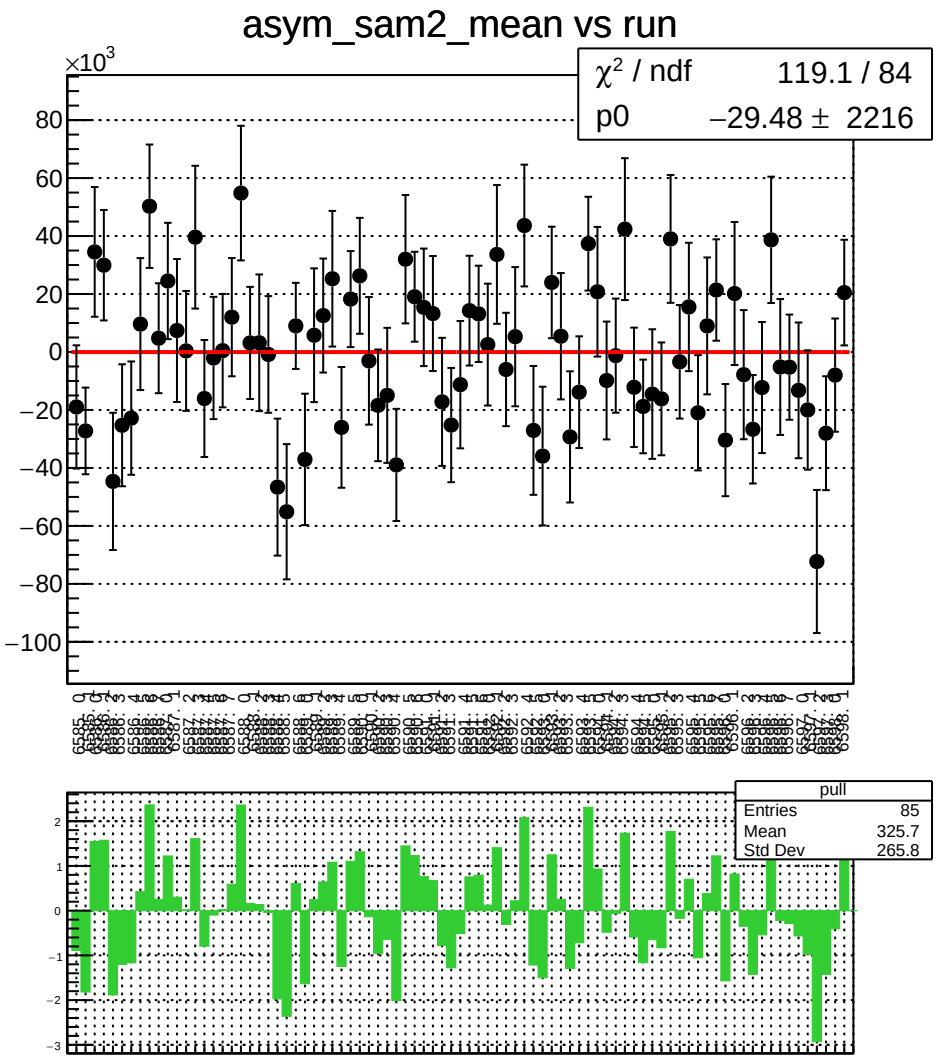

diff_bpm0l01X_rms vs run
χ² / ndf 464.2 / 84
p0 2912 ± 2.24
3050
3000
2950
2900
2850
2800
2750

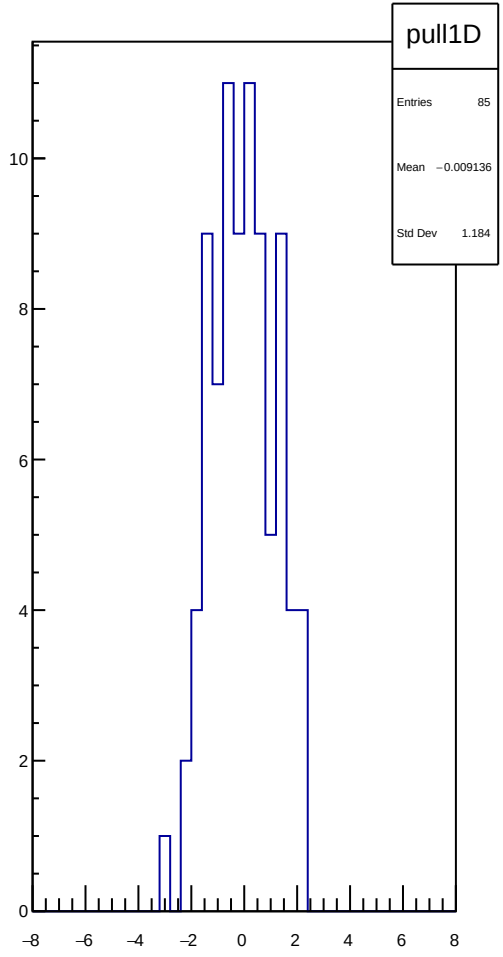

diff_bpm0l01Y_mean vs run
χ² / ndf 80.31 / 84
p0 23.99 ± 1.584
pull
Entries 85
Mean 9284
Std Dev 9239
pull1D
Entries 85
Mean 0.0005676
Std Dev 0.972


diff_bpm0l01Y_rms vs run
χ² / ndf 3551 / 84
p0 1455 ± 1.12
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

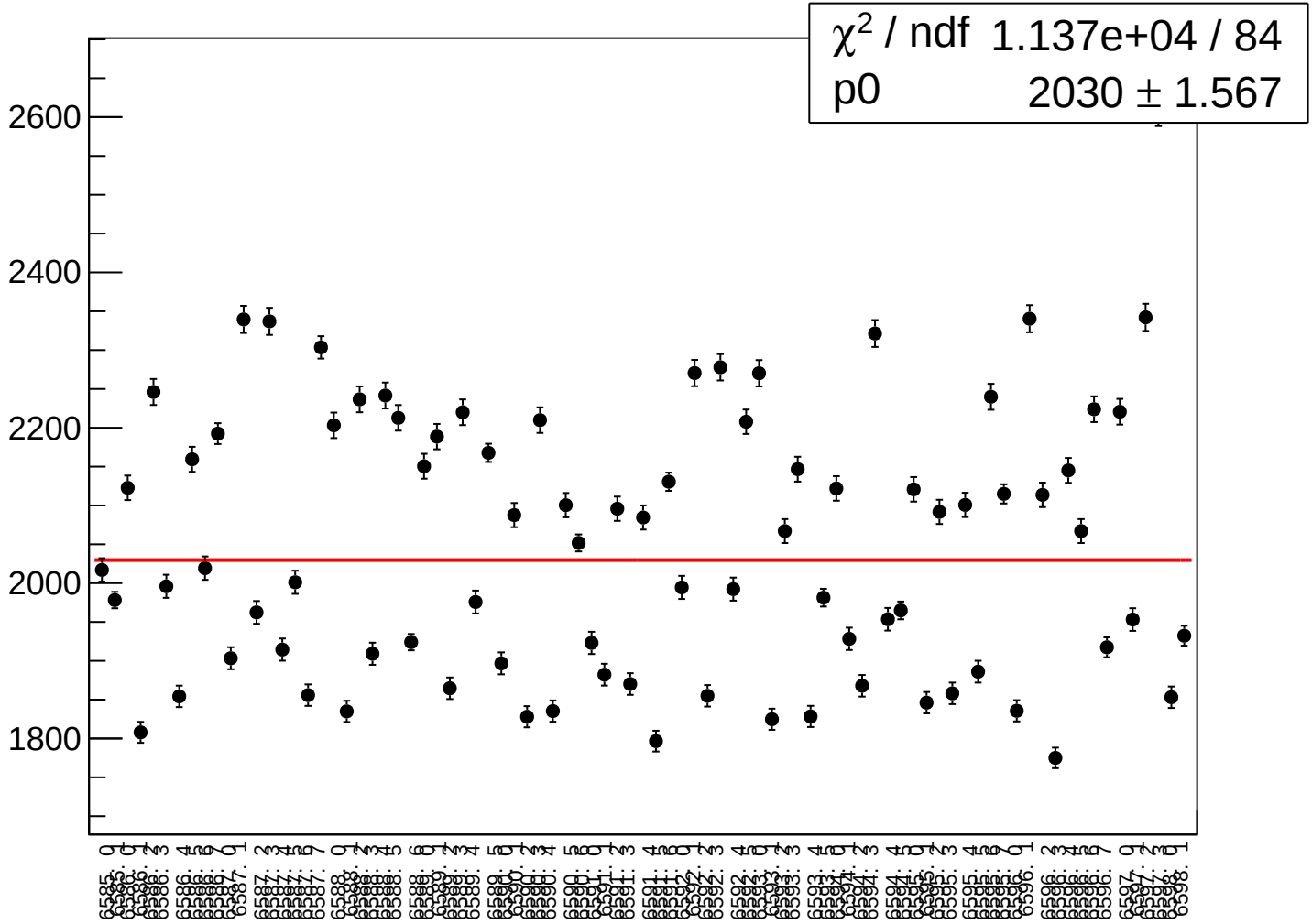

asym_sam1_mean vs run
χ^2 / ndf 102.1 / 84
p0 176.7 ± 358.7
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 167
Std Dev 117.6
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01017
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

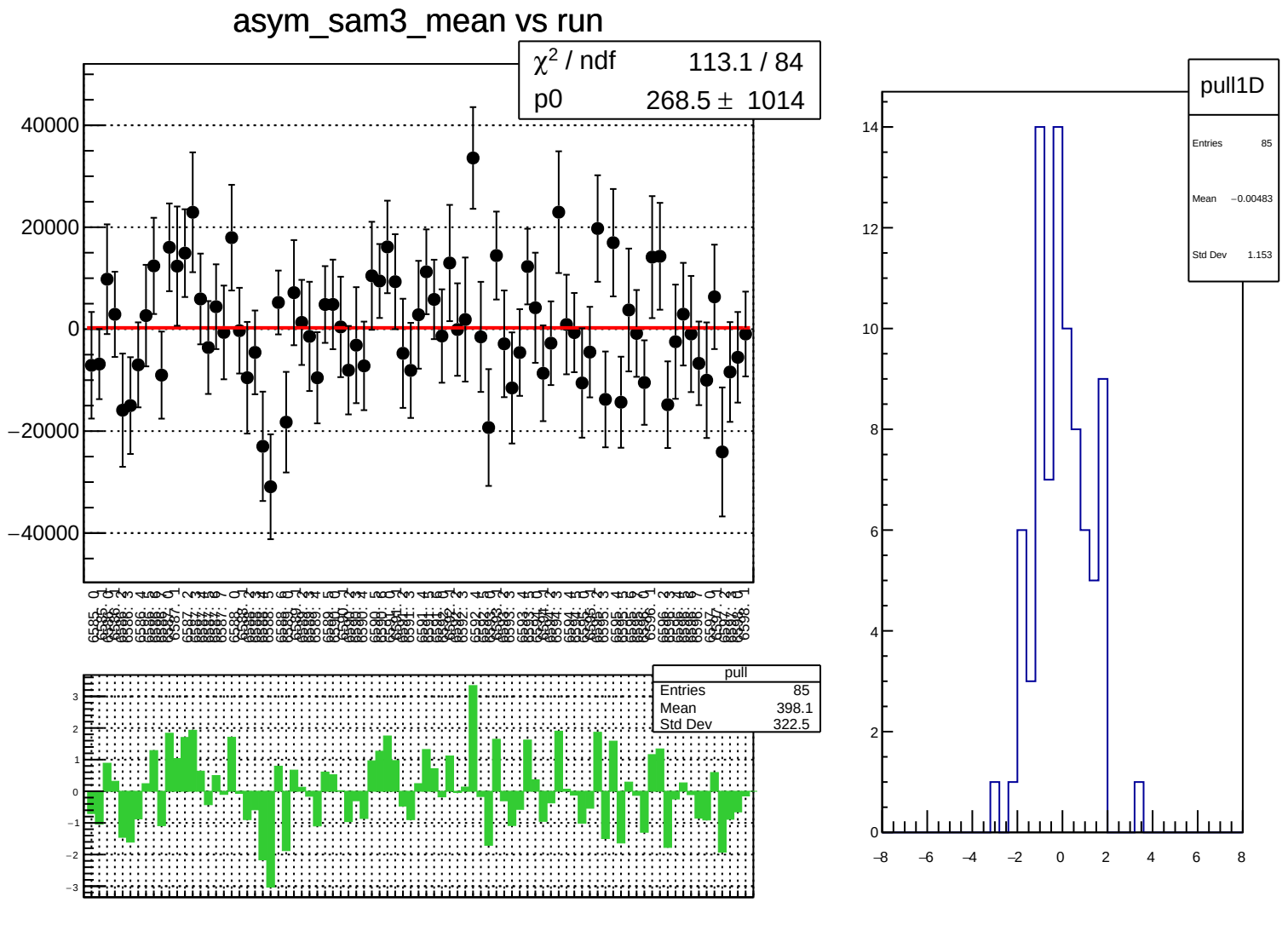

asym_sam1_rms vs run
χ^2 / ndf 2228 / 84
p0 329.4 ± 0.2536
370
360
350
340
330
320
310
300

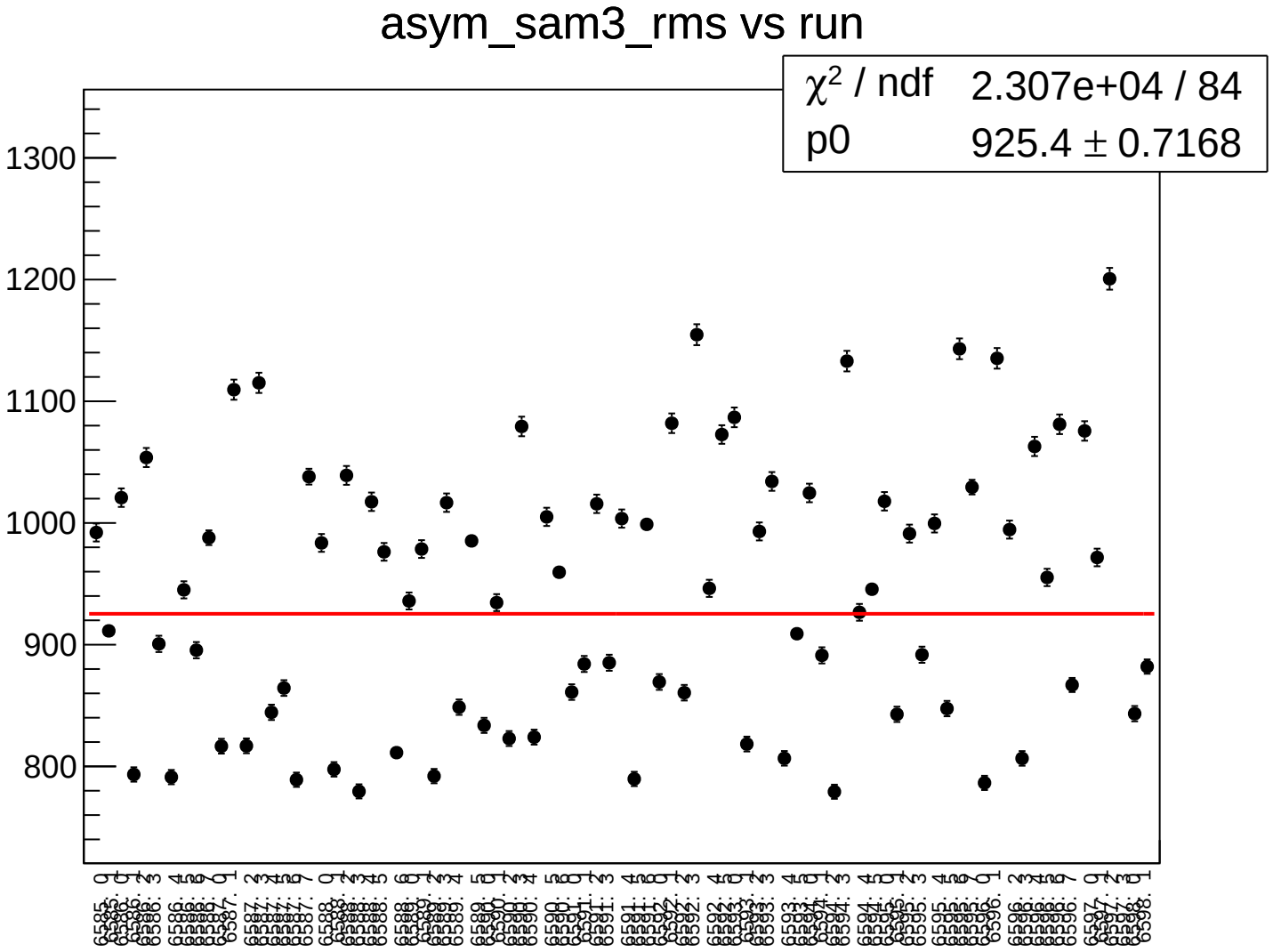

asym_sam2_mean vs run
×10^3
χ² / ndf 119.1 / 84
p0 −29.48 ± 2216
pull
Entries 85
Mean 325.7
Std Dev 265.8

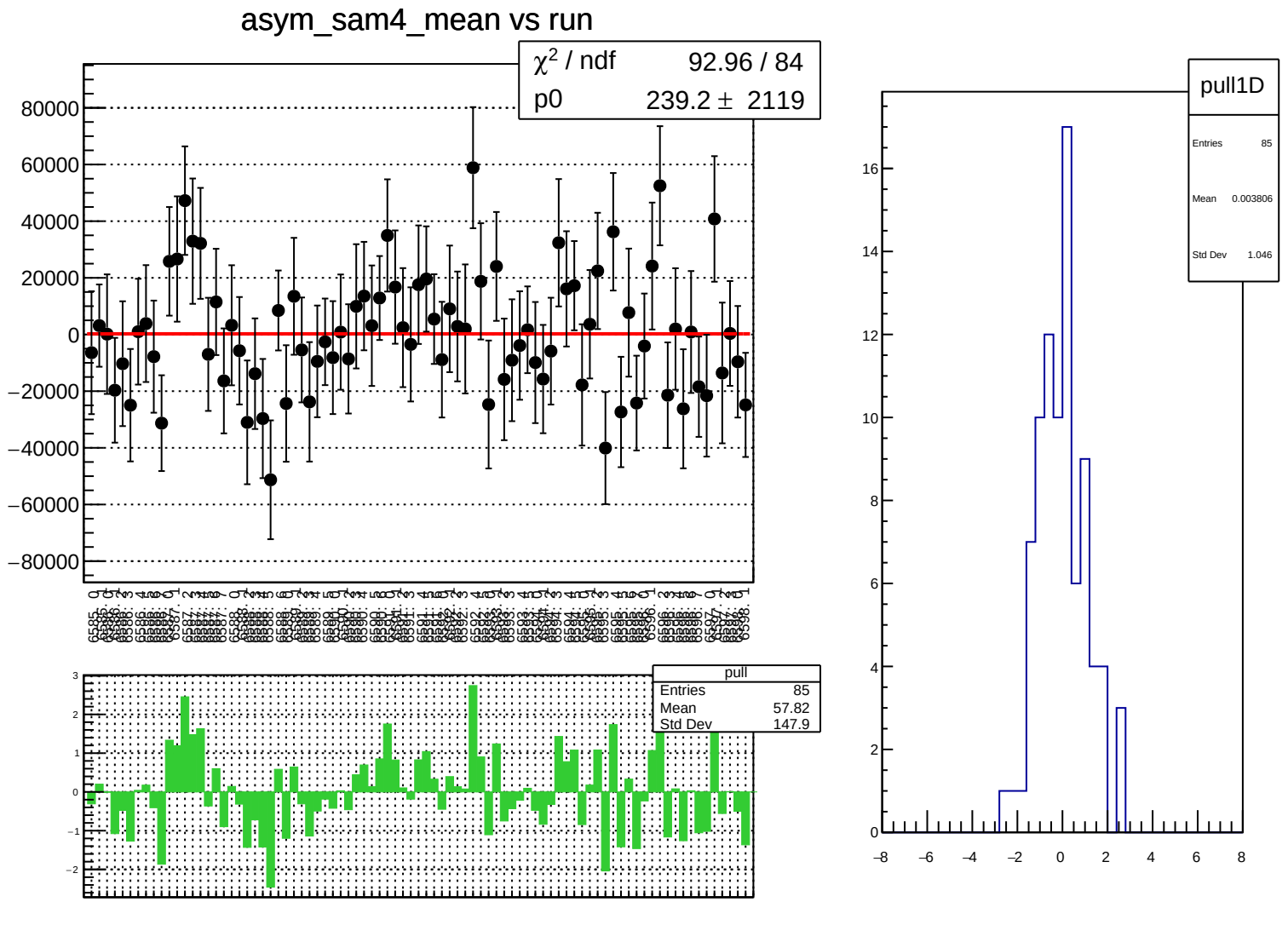

pull1D
Entries 85
Mean −0.009136
Std Dev 1.184

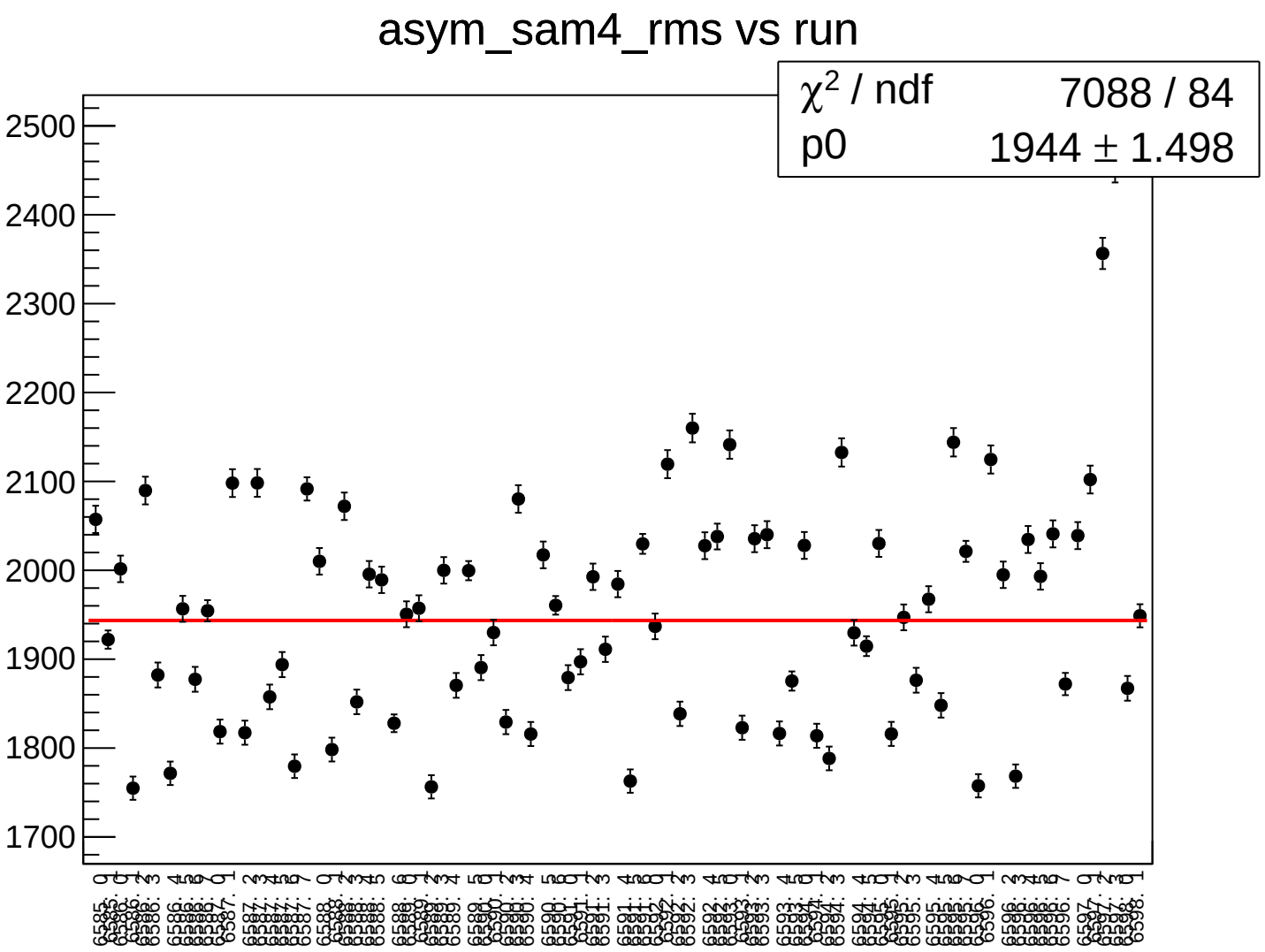
asym_sam2_rms vs run

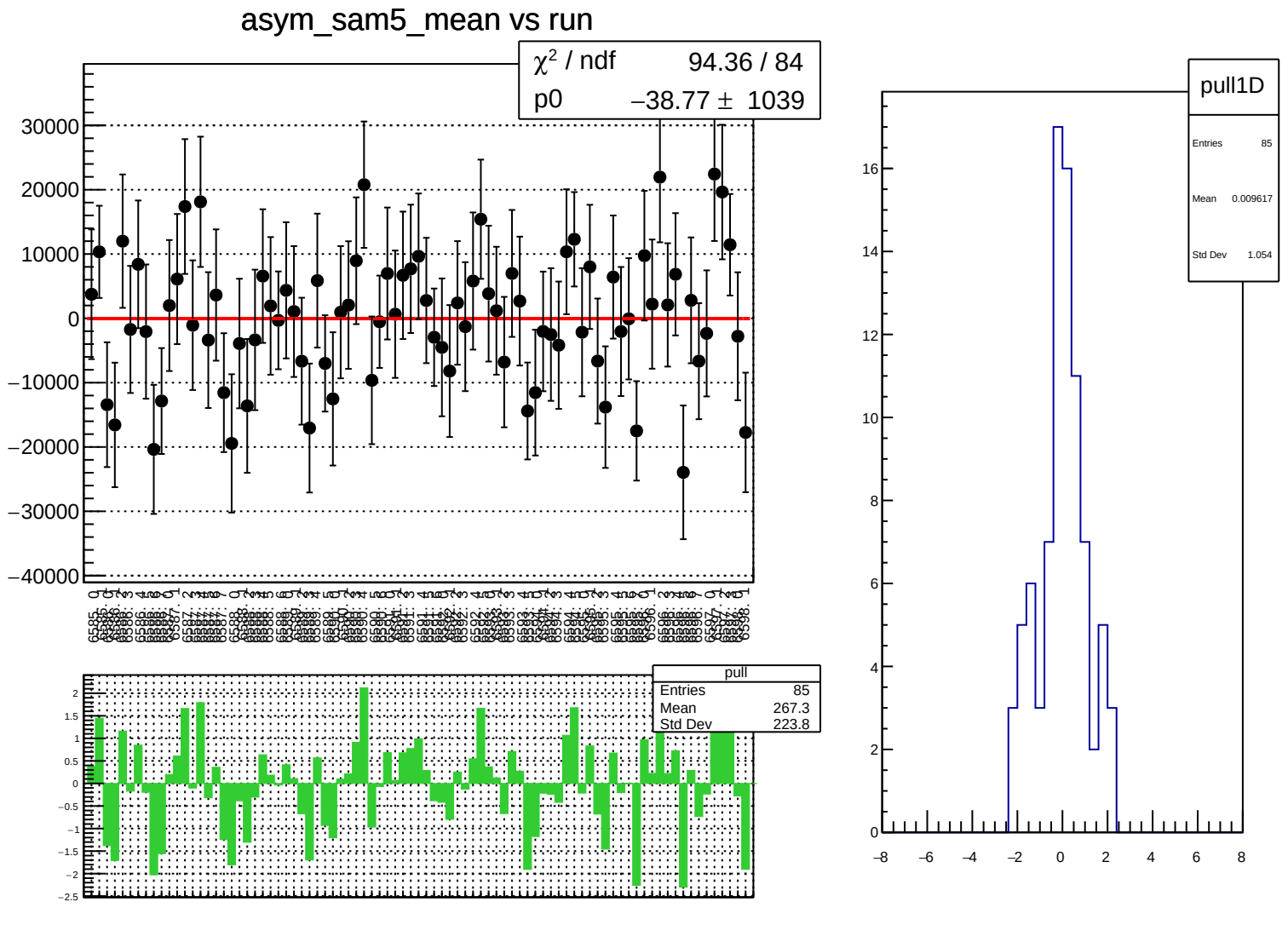


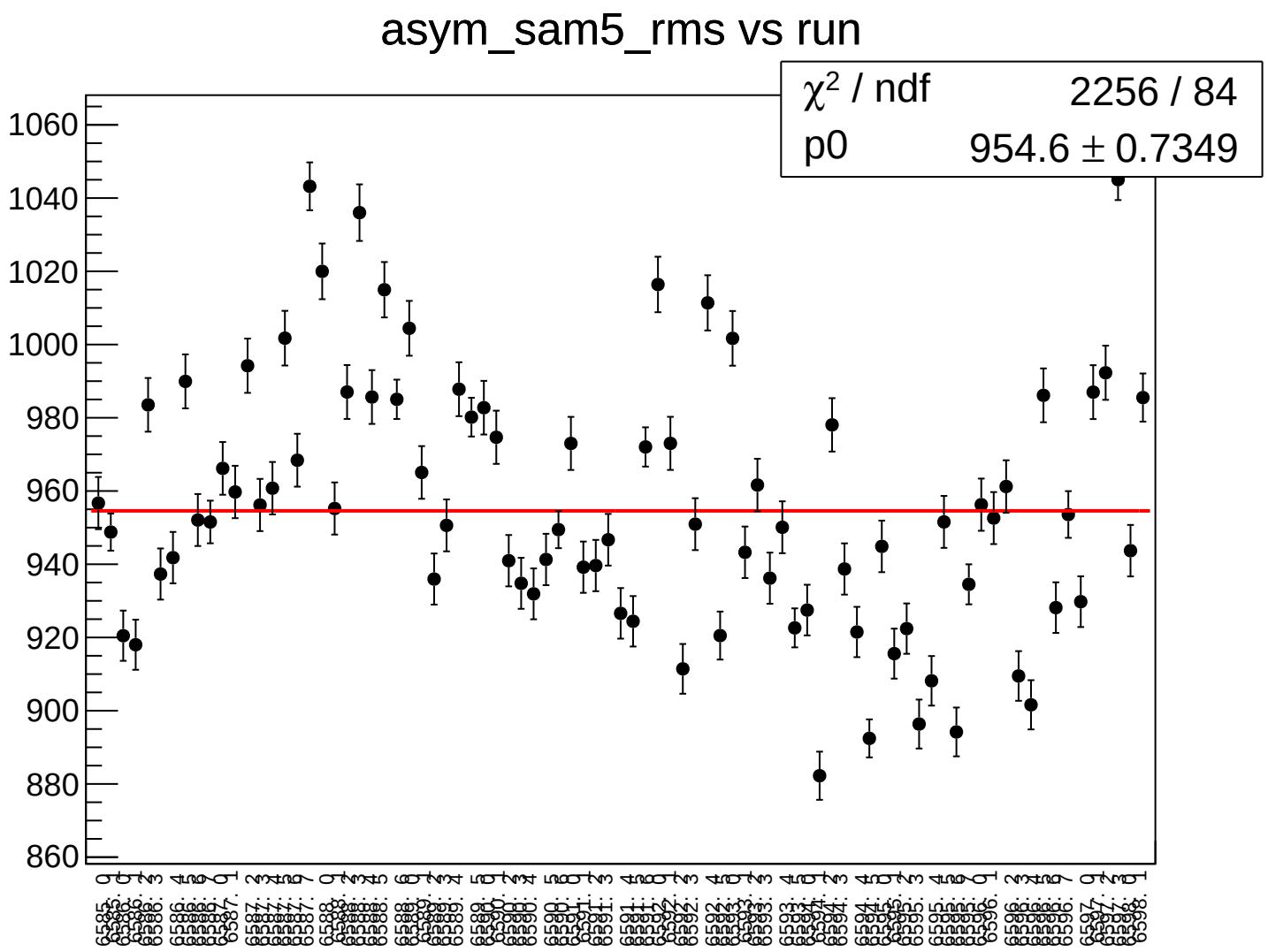

asym_sam3_mean vs run
χ² / ndf 113.1 / 84
p0 268.5 ± 1014
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 398.1
Std Dev 322.5
pull1D
Entries 85
Mean −0.00483
Std Dev 1.153

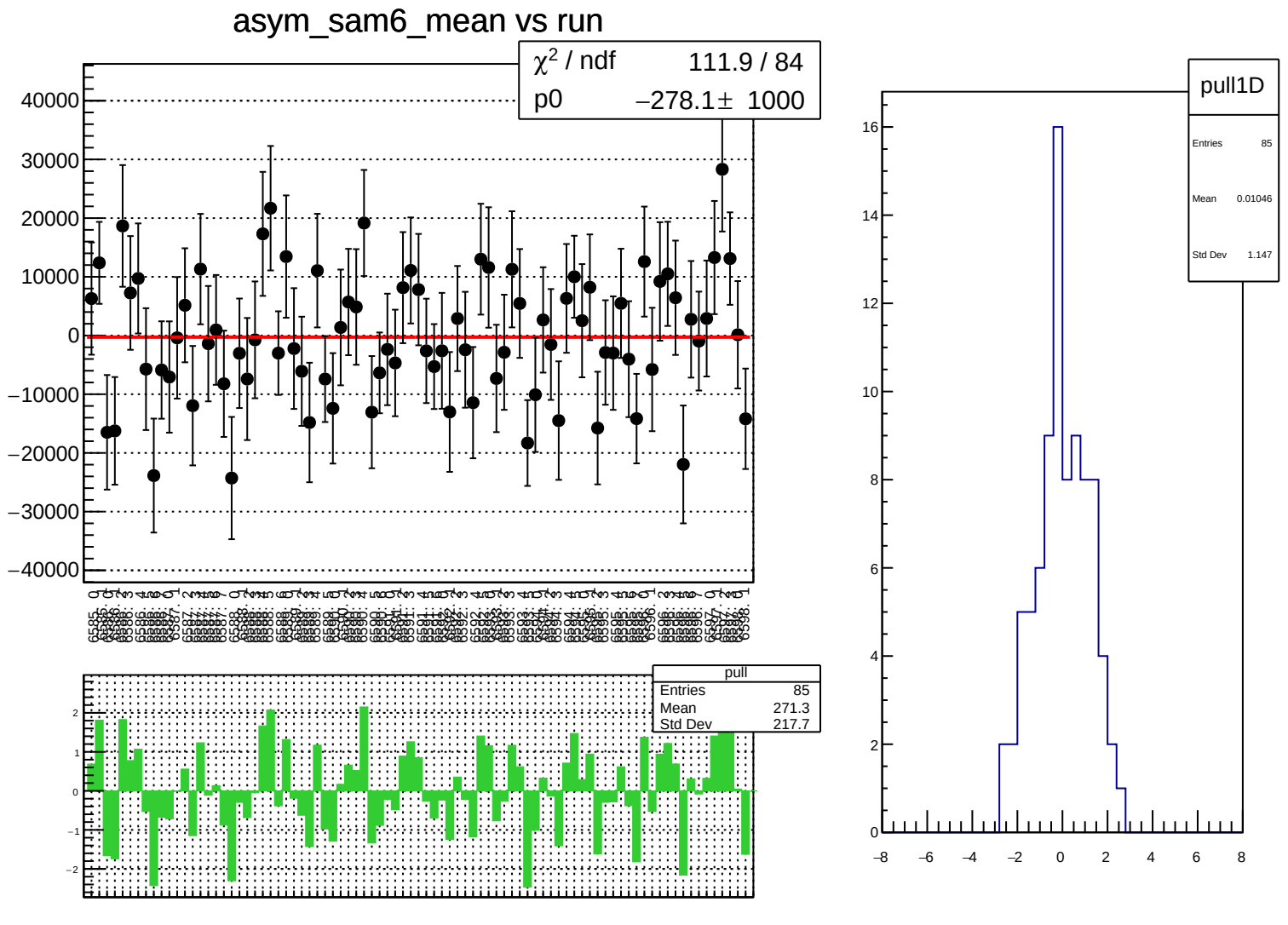

asym_sam3_rms vs run
χ^2 / ndf 2.307e+04 / 84
p0 925.4 ± 0.7168
1300
1200
1100
1000
900
800


asym_sam4_mean vs run
χ² / ndf 92.96 / 84
p0 239.2 ± 2119
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 57.82
Std Dev 147.9
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.003806
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

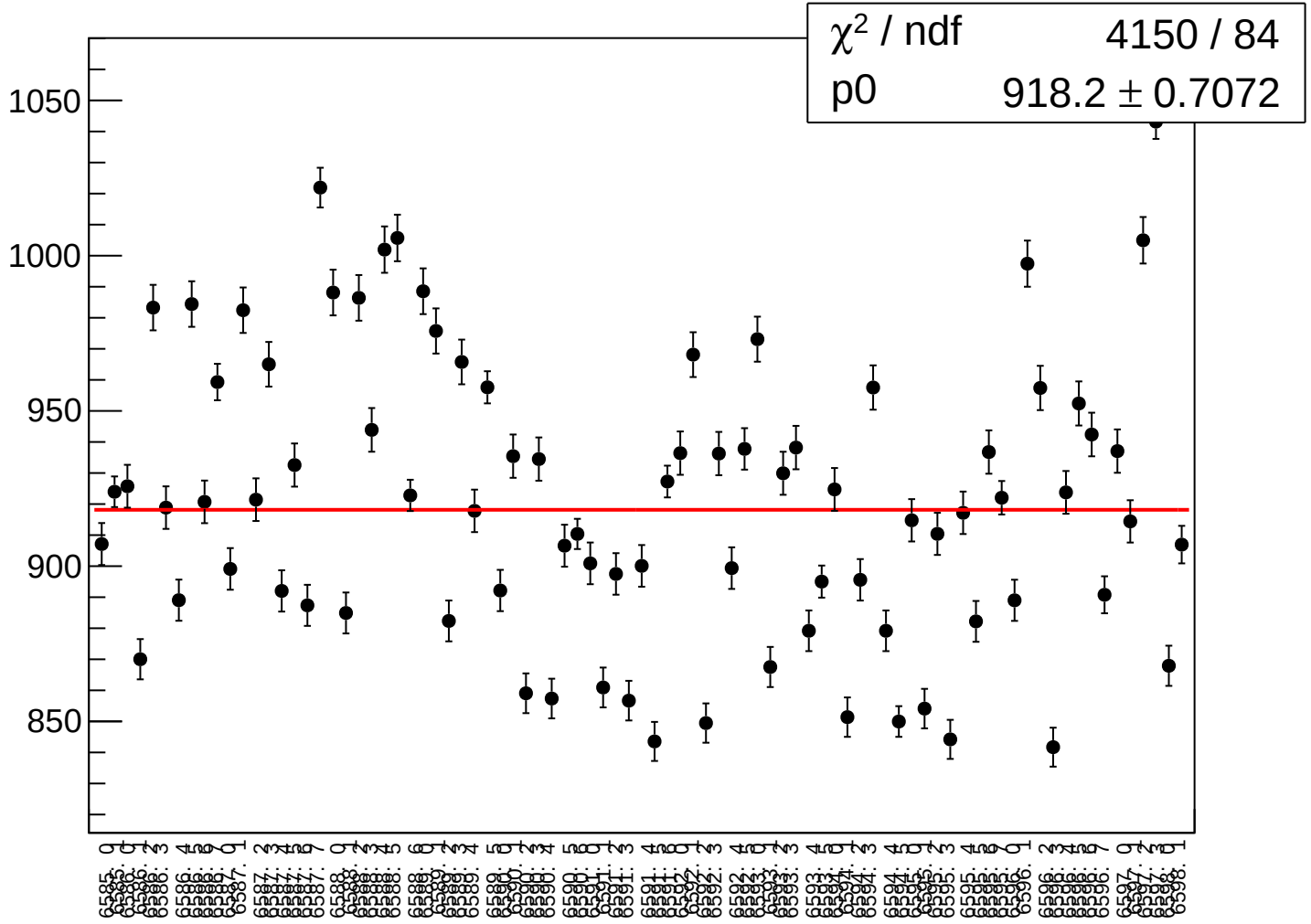

asym_sam4_rms vs run
χ2 / ndf 7088 / 84
p0 1944 ± 1.498
2500
2400
2300
2200
2100
2000
1900
1800
1700

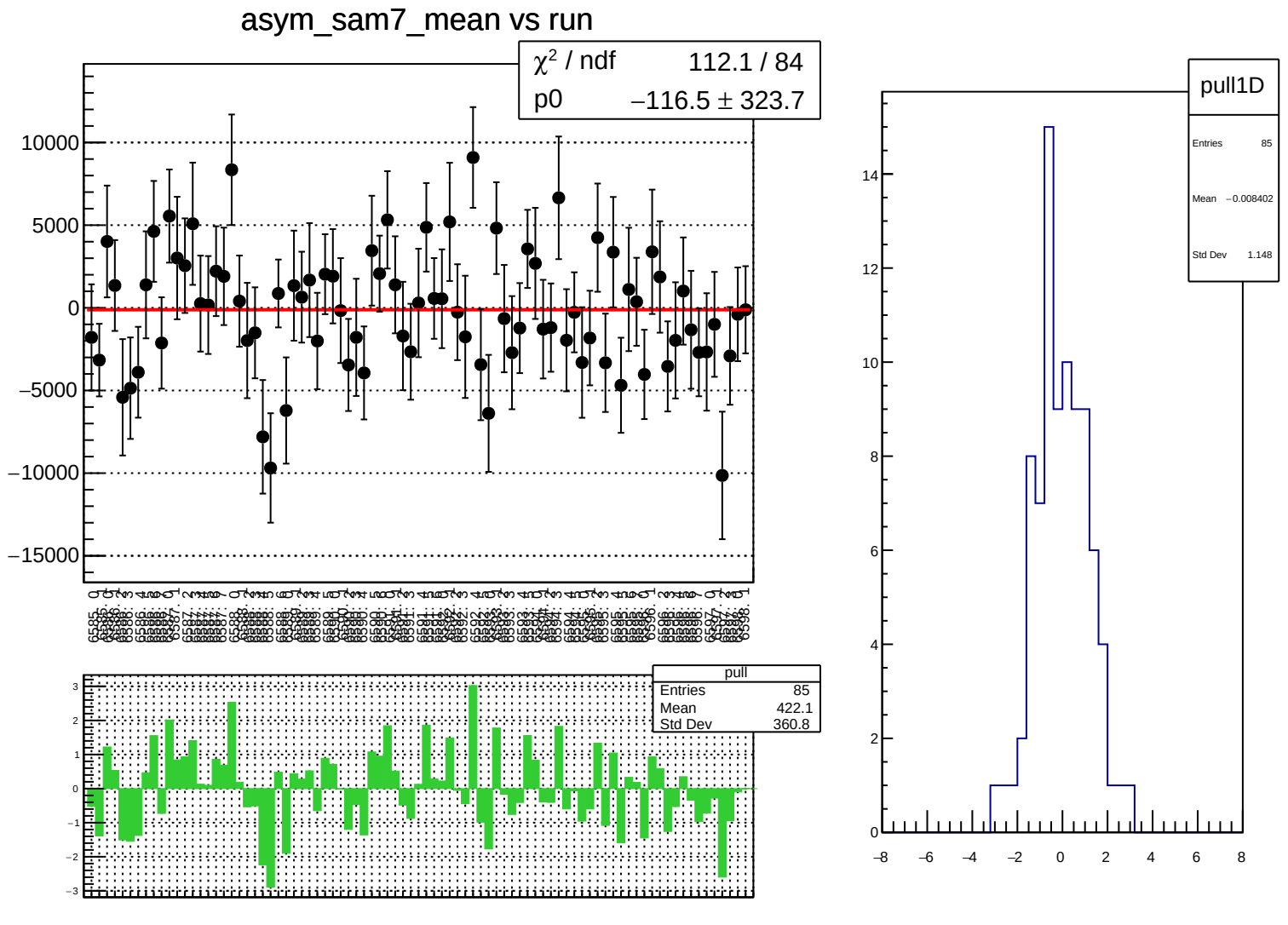

asym_sam5_mean vs run
χ² / ndf 94.36 / 84
p0 −38.77 ± 1039
pull
Entries 85
Mean 267.3
Std Dev 223.8
pull1D
Entries 85
Mean 0.009617
Std Dev 1.054

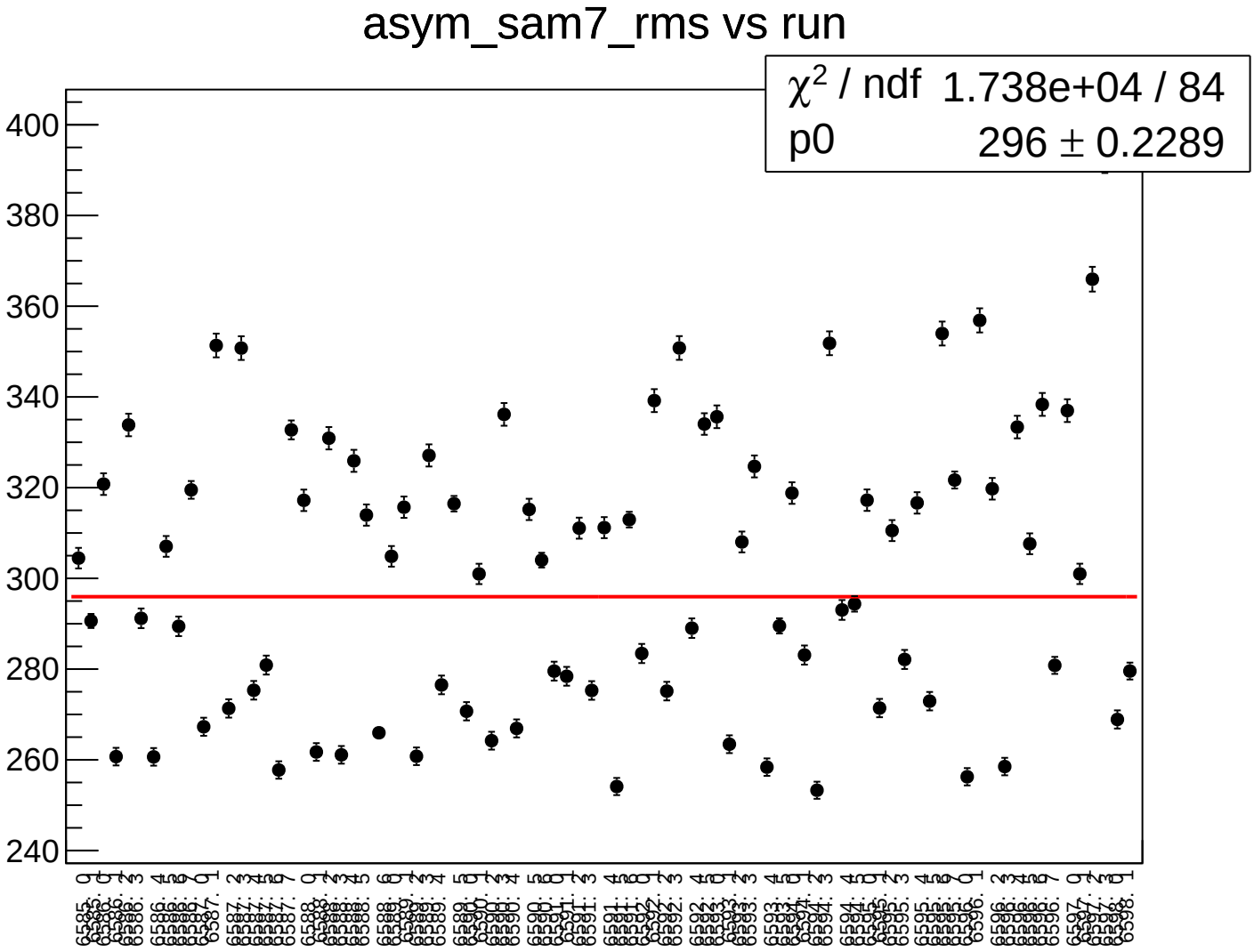

asym_sam5_rms vs run
χ² / ndf 2256 / 84
p0 954.6 ± 0.7349
1060
1040
1020
1000
980
960
940
920
900
880
860

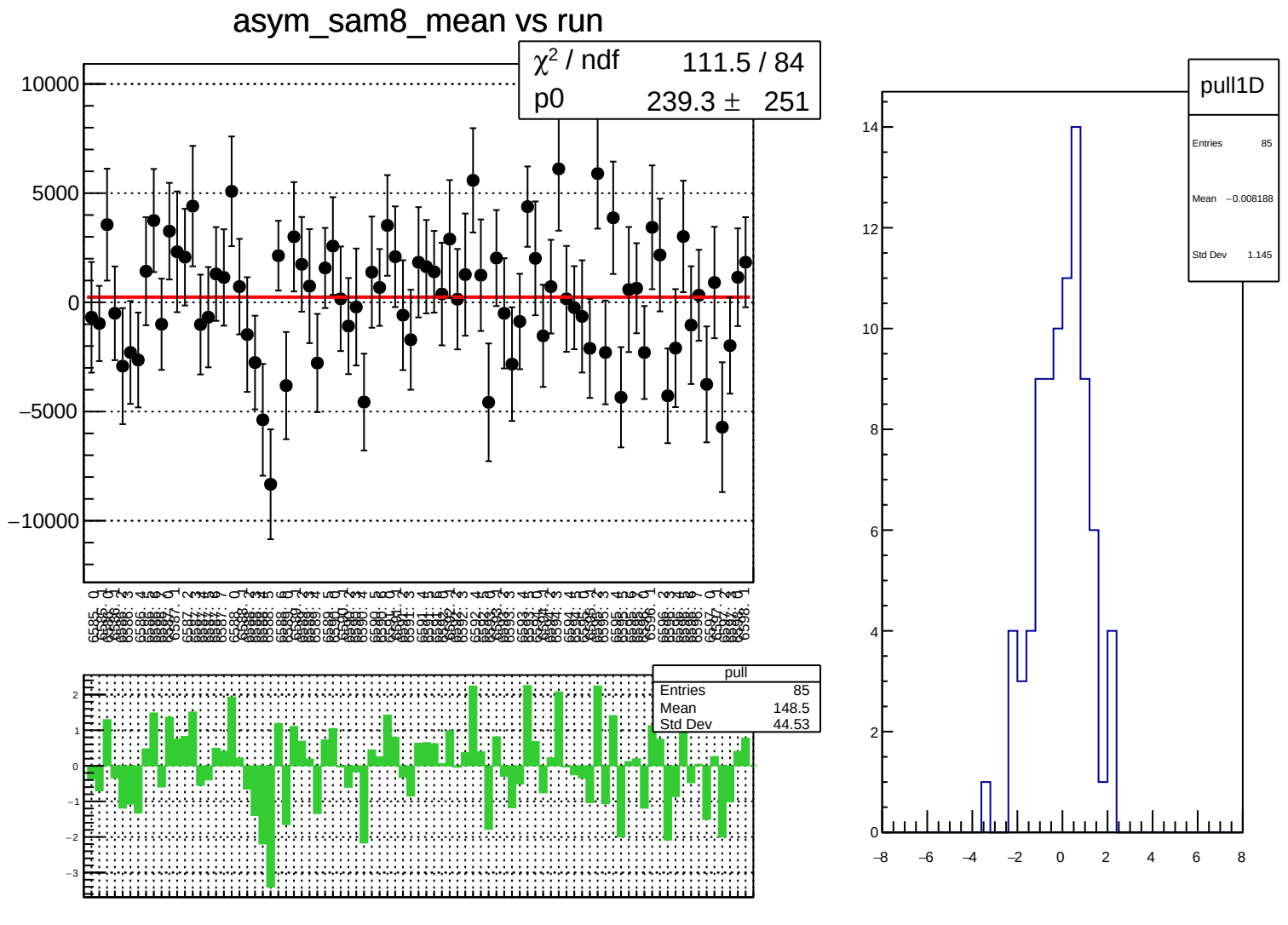

asym_sam6_mean vs run
χ² / ndf 111.9 / 84
p0 −278.1± 1000
pull
Entries 85
Mean 271.3
Std Dev 217.7
pull1D
Entries 85
Mean 0.01046
Std Dev 1.147

asym_sam6_rms vs run

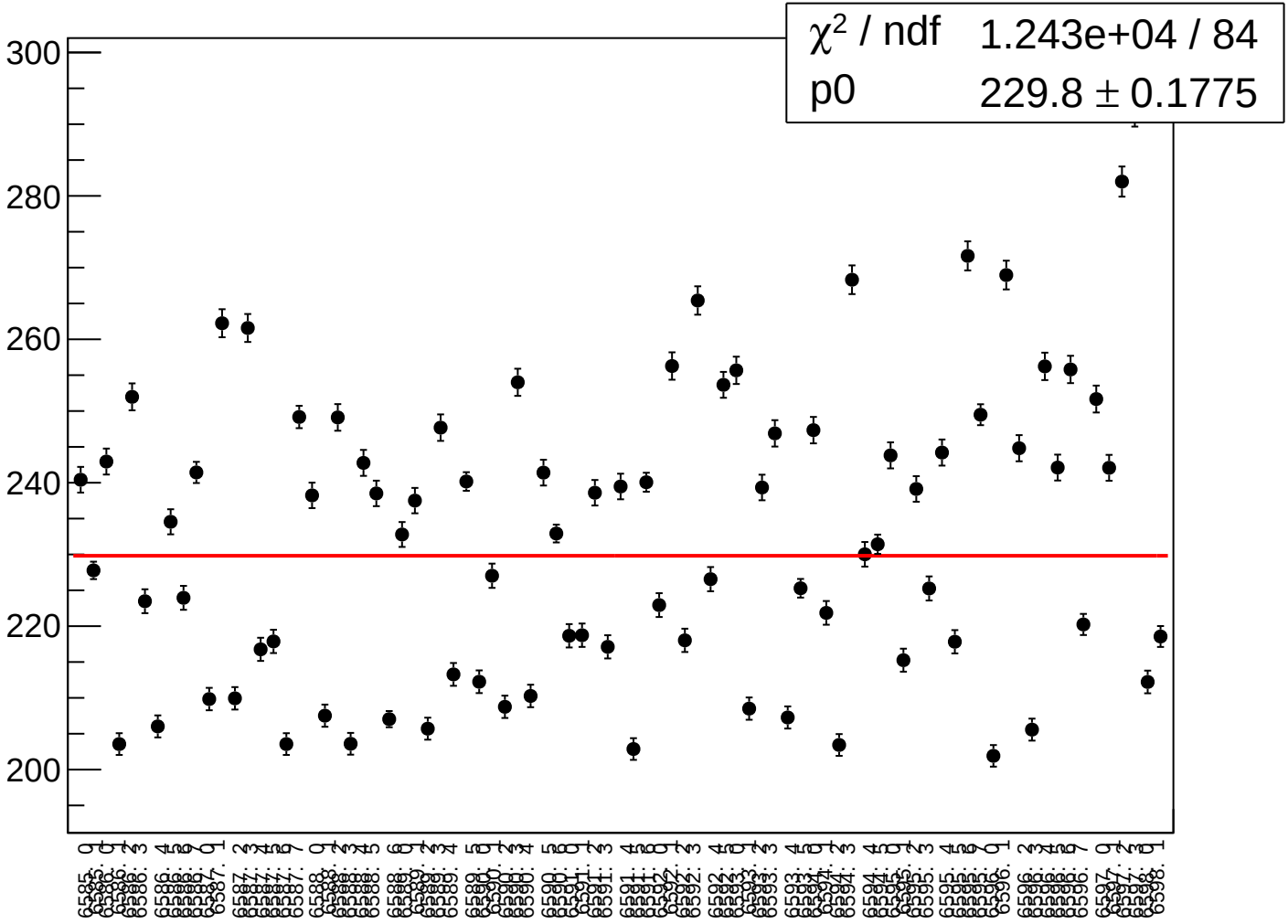


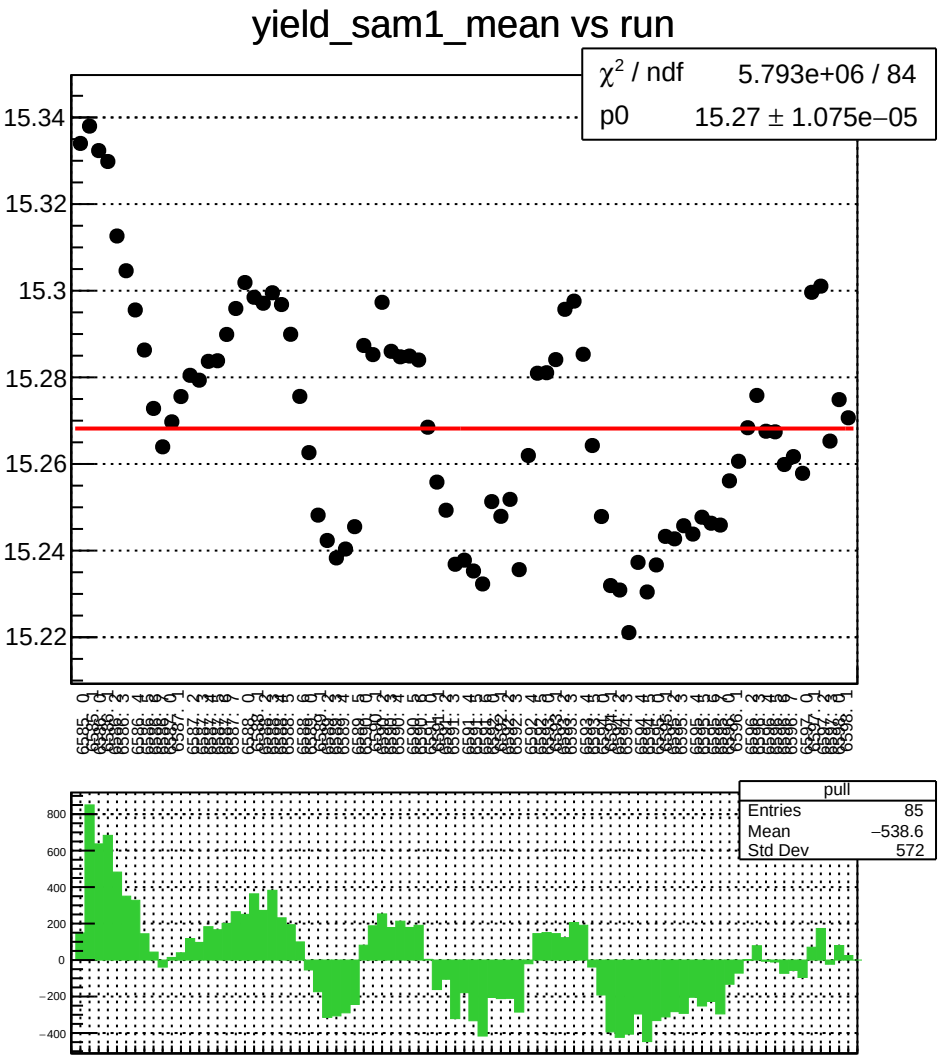

asym_sam7_mean vs run
χ² / ndf 112.1 / 84
p0 −116.5 ± 323.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 422.1
Std Dev 360.8
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.008402
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

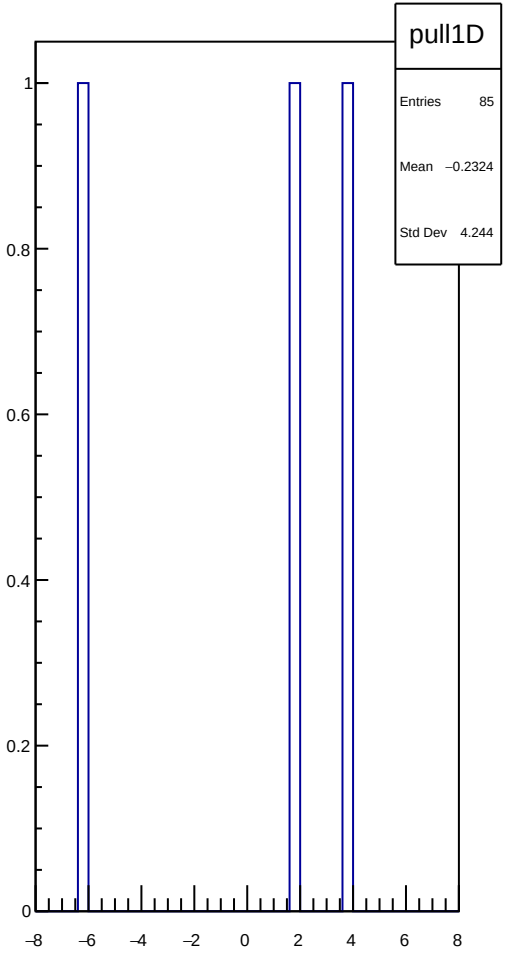

asym_sam7_rms vs run
χ^2 / ndf 1.738e+04 / 84
p0 296 ± 0.2289
400
380
360
340
320
300
280
260
240

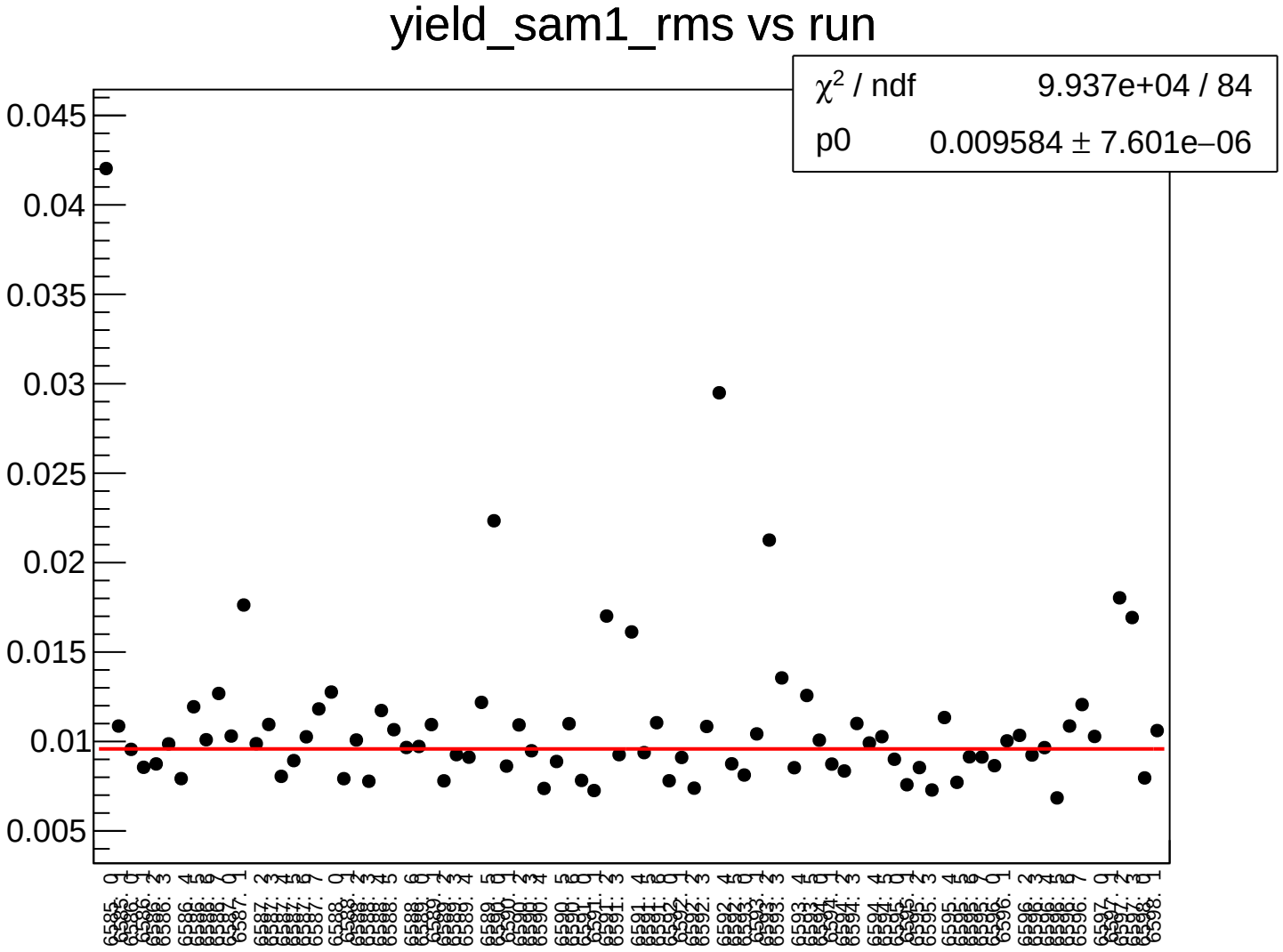

asym_sam8_mean vs run
χ² / ndf 111.5 / 84
p0 239.3 ± 251
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 148.5
Std Dev 44.53
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.008188
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

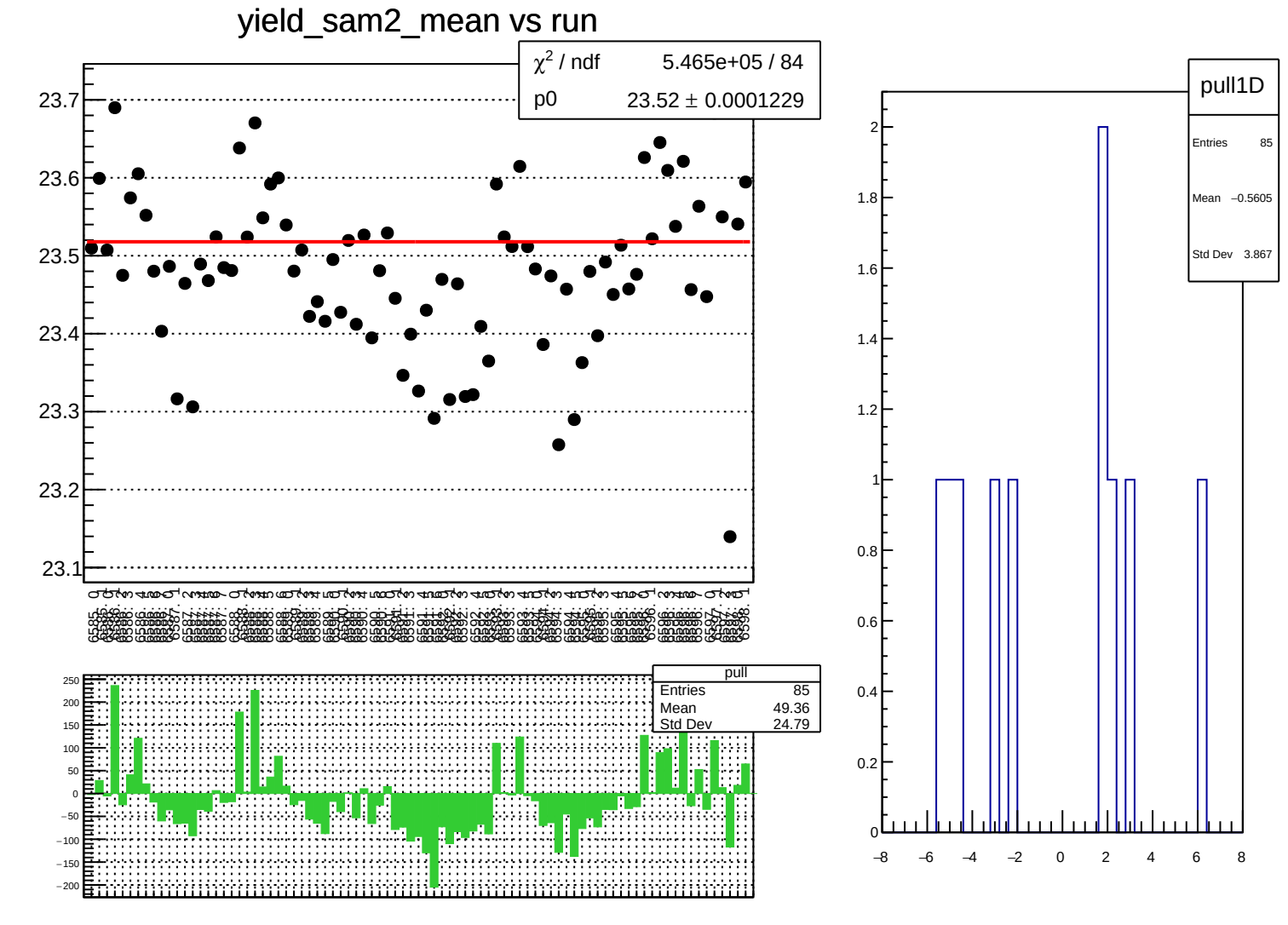
asym_sam8_rms vs run



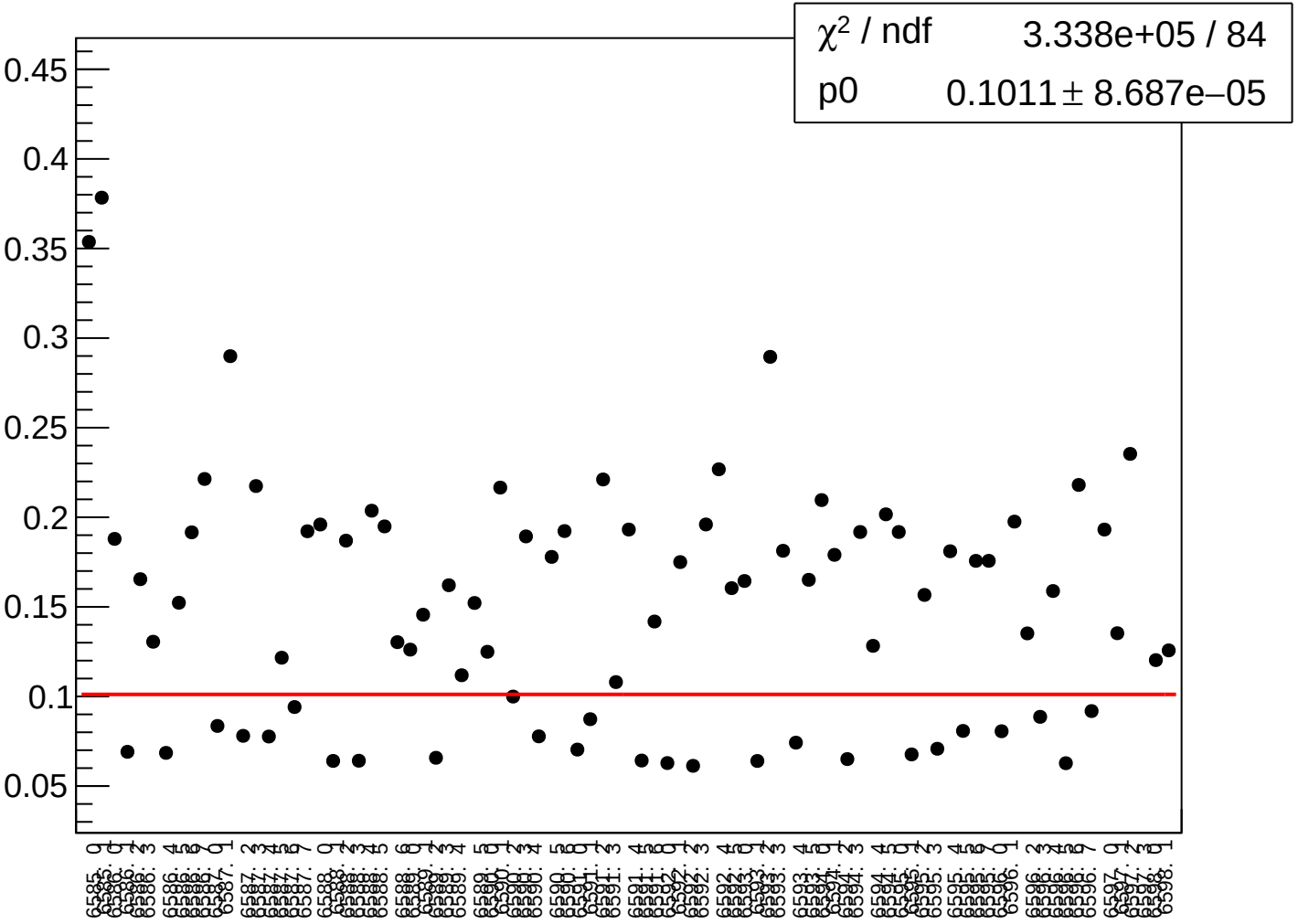

yield_sam1_mean vs run
χ² / ndf 5.793e+06 / 84
p0 15.27 ± 1.075e−05
15.34
15.32
15.3
15.28
15.26
15.24
15.22
pull
Entries 85
Mean −538.6
Std Dev 572
800
600
400
200
0
−200
−400

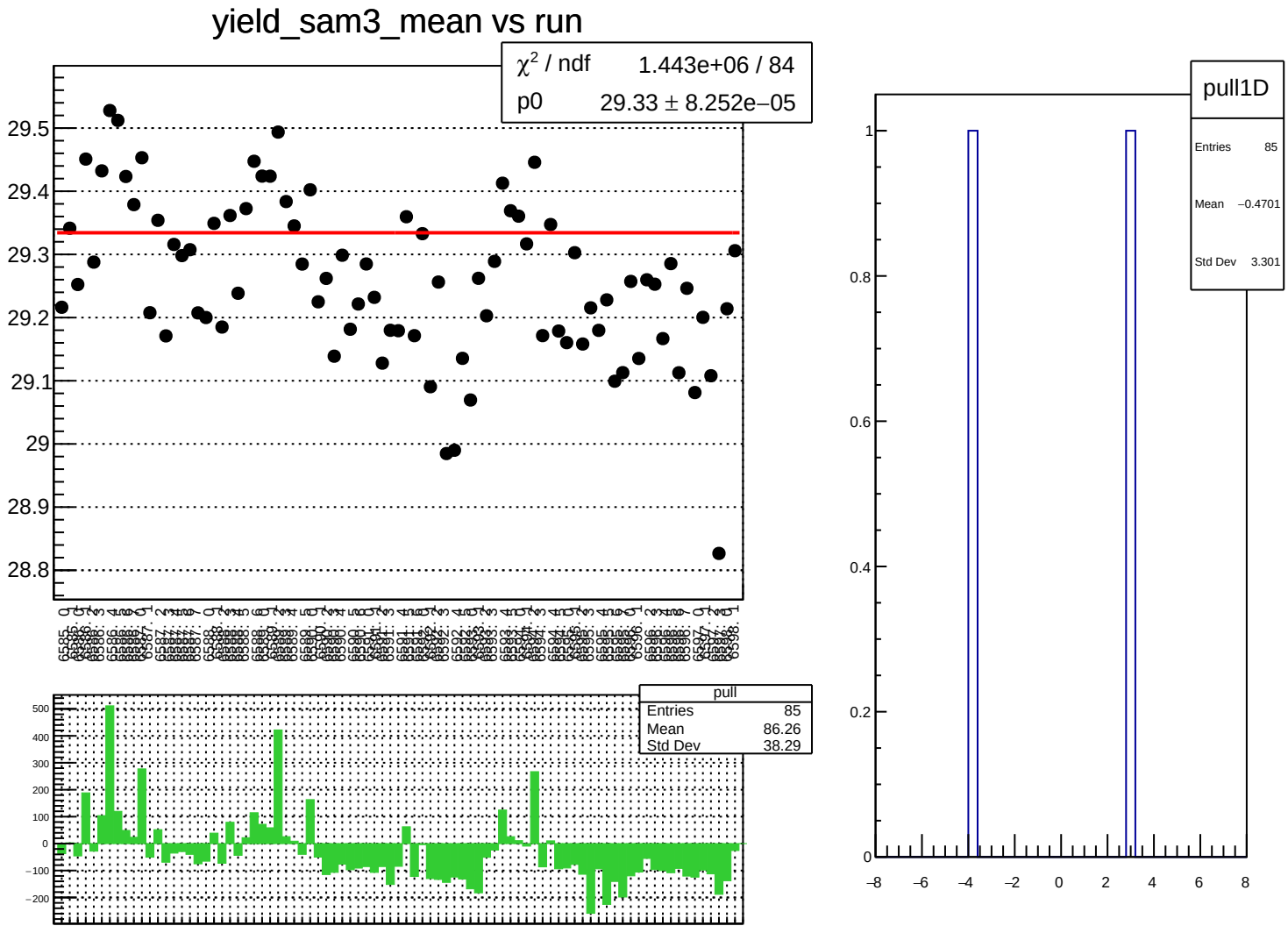

pull1D
Entries 85
Mean −0.2324
Std Dev 4.244
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_sam1_rms vs run
χ^2 / ndf 9.937e+04 / 84
p0 0.009584 ± 7.601e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

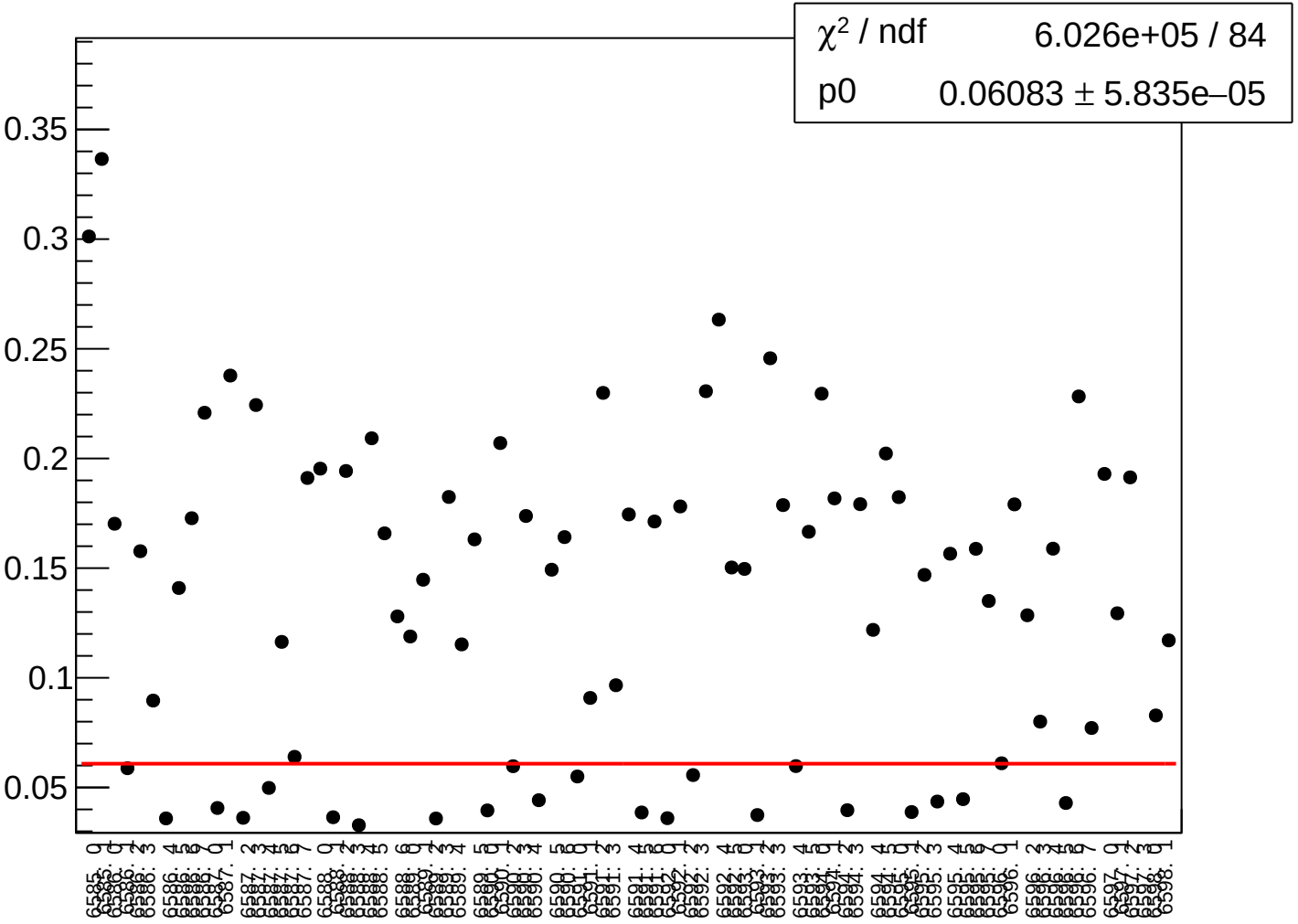

yield_sam2_mean vs run
χ² / ndf 5.465e+05 / 84
p0 23.52 ± 0.0001229
pull
Entries 85
Mean 49.36
Std Dev 24.79
pull1D
Entries 85
Mean −0.5605
Std Dev 3.867

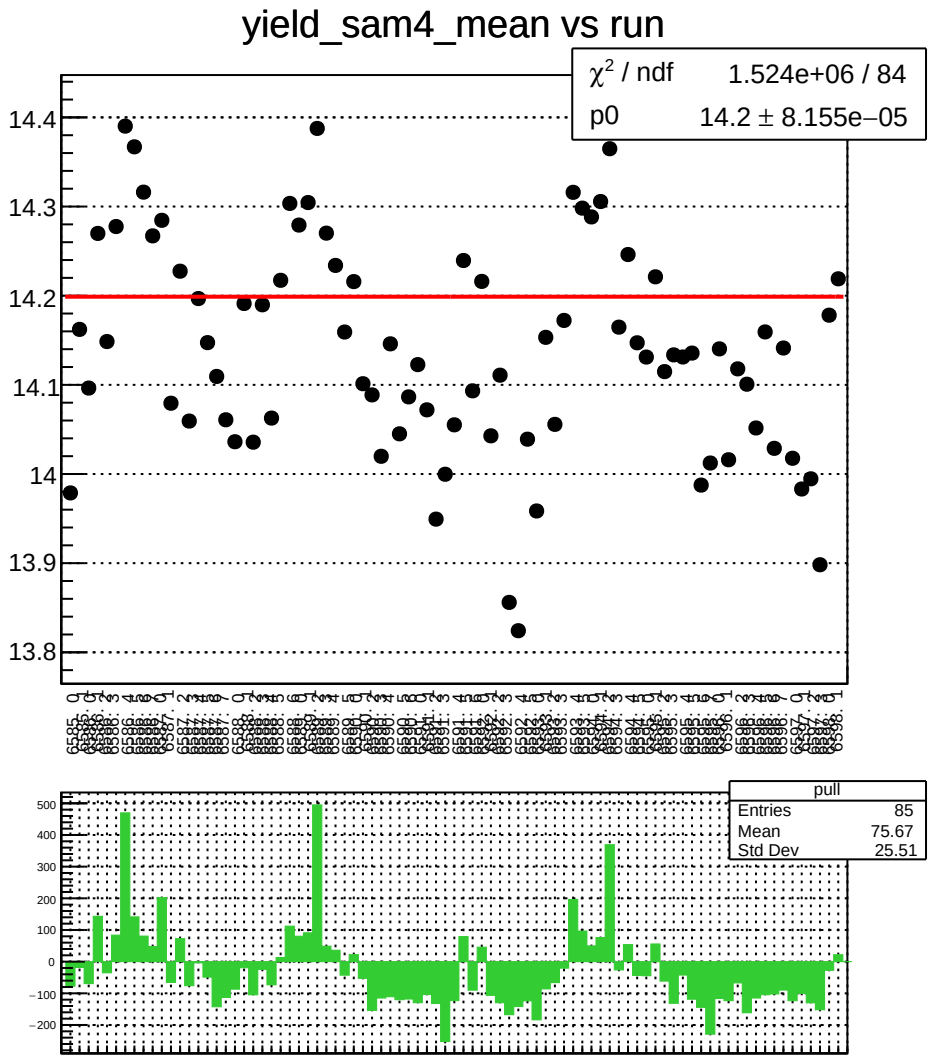
yield_sam2_rms vs run

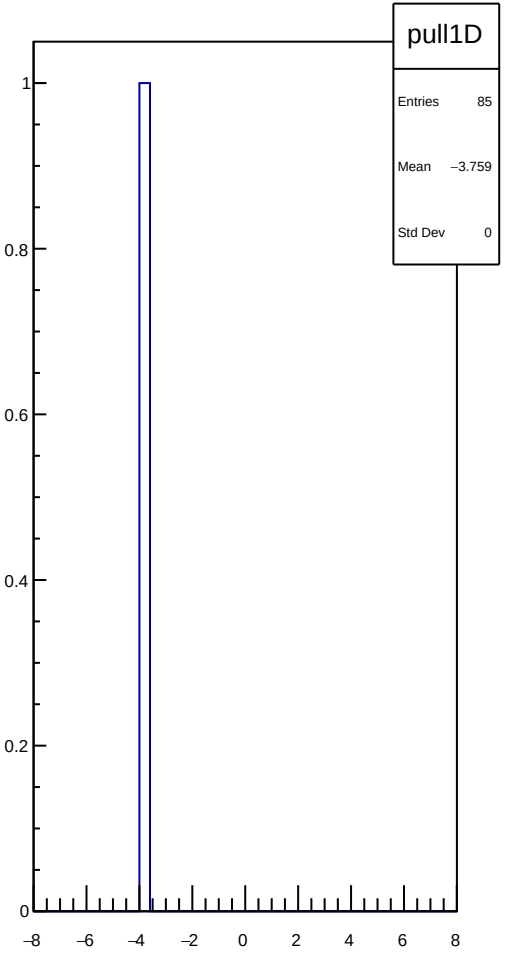



yield_sam3_mean vs run
χ^2 / ndf 1.443e+06 / 84
p0 29.33 ± 8.252e−05
29.5
29.4
29.3
29.2
29.1
29
28.9
28.8
pull
Entries 85
Mean 86.26
Std Dev 38.29
500
400
300
200
100
0
−100
−200
pull1D
Entries 85
Mean −0.4701
Std Dev 3.301
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

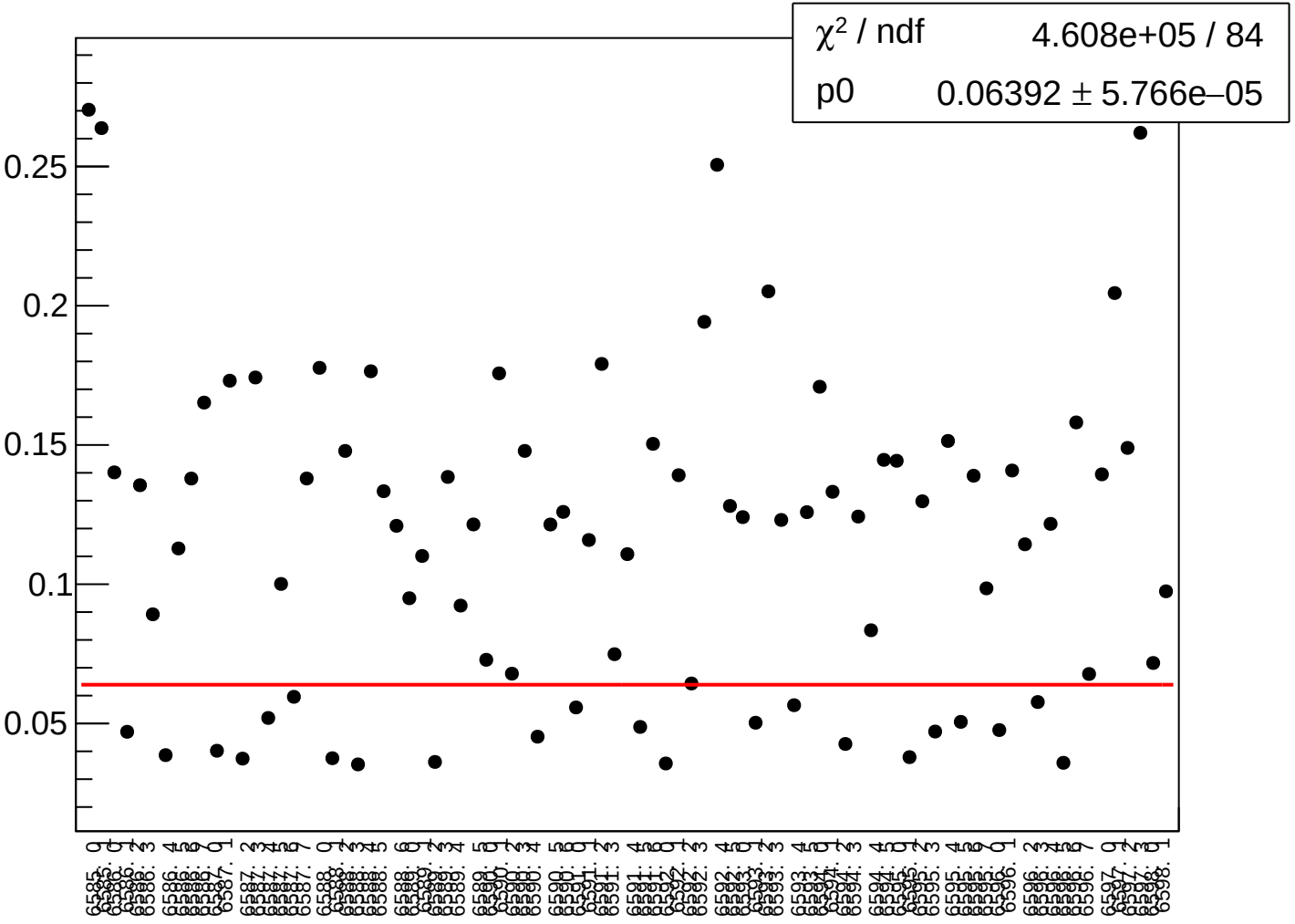
yield_sam3_rms vs run

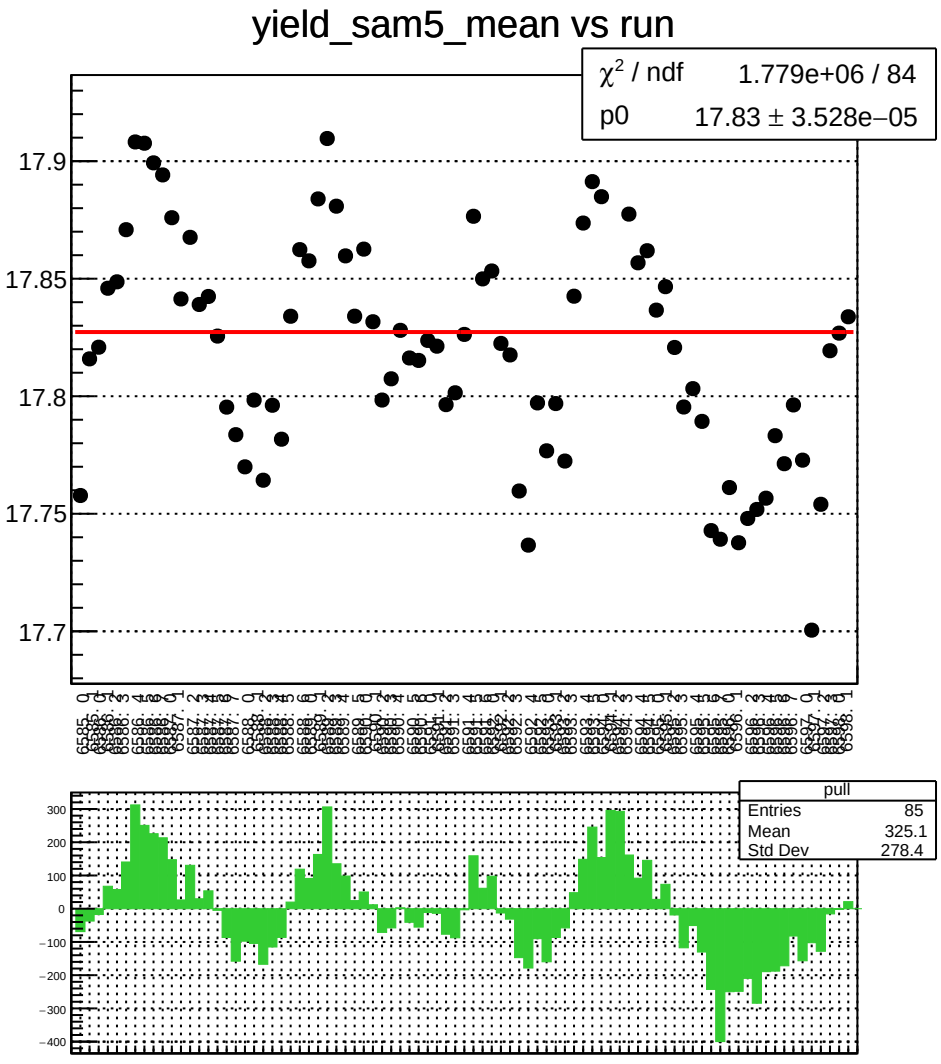


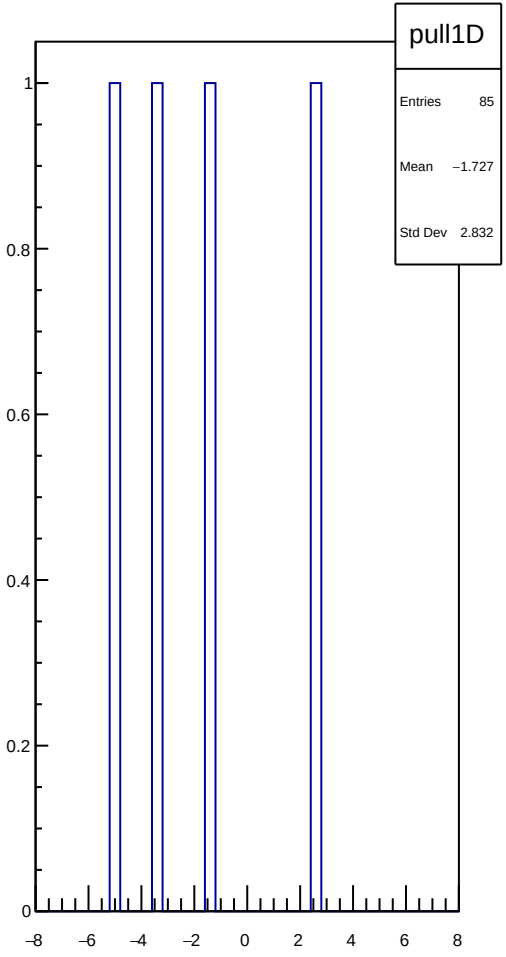

yield_sam4_mean vs run
χ^2 / ndf 1.524e+06 / 84
p0 14.2 ± 8.155e−05
14.4
14.3
14.2
14.1
14
13.9
13.8
pull
Entries 85
Mean 75.67
Std Dev 25.51
500
400
300
200
100
0
−100
−200


pull1D
Entries 85
Mean −3.759
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

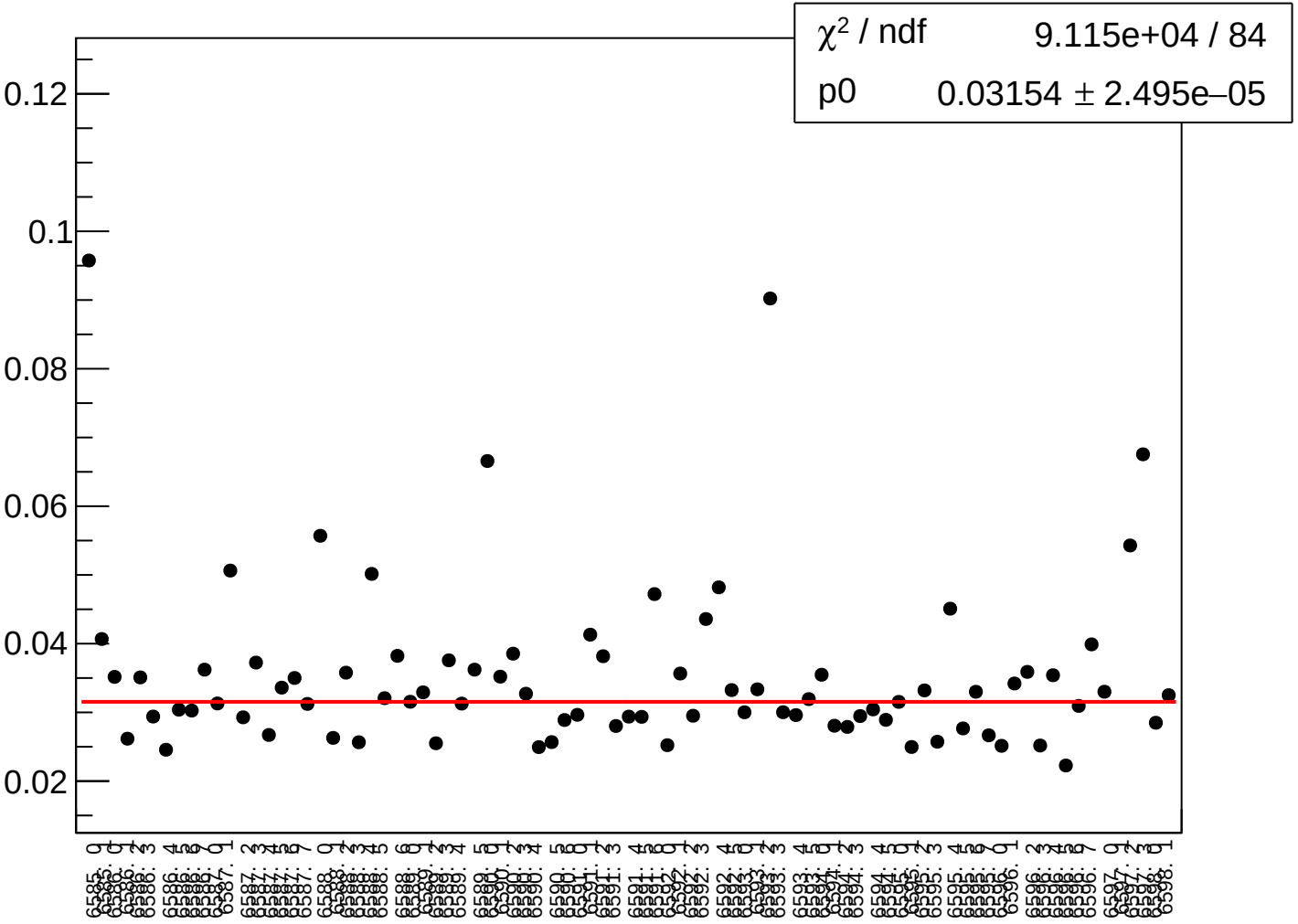
yield_sam4_rms vs run

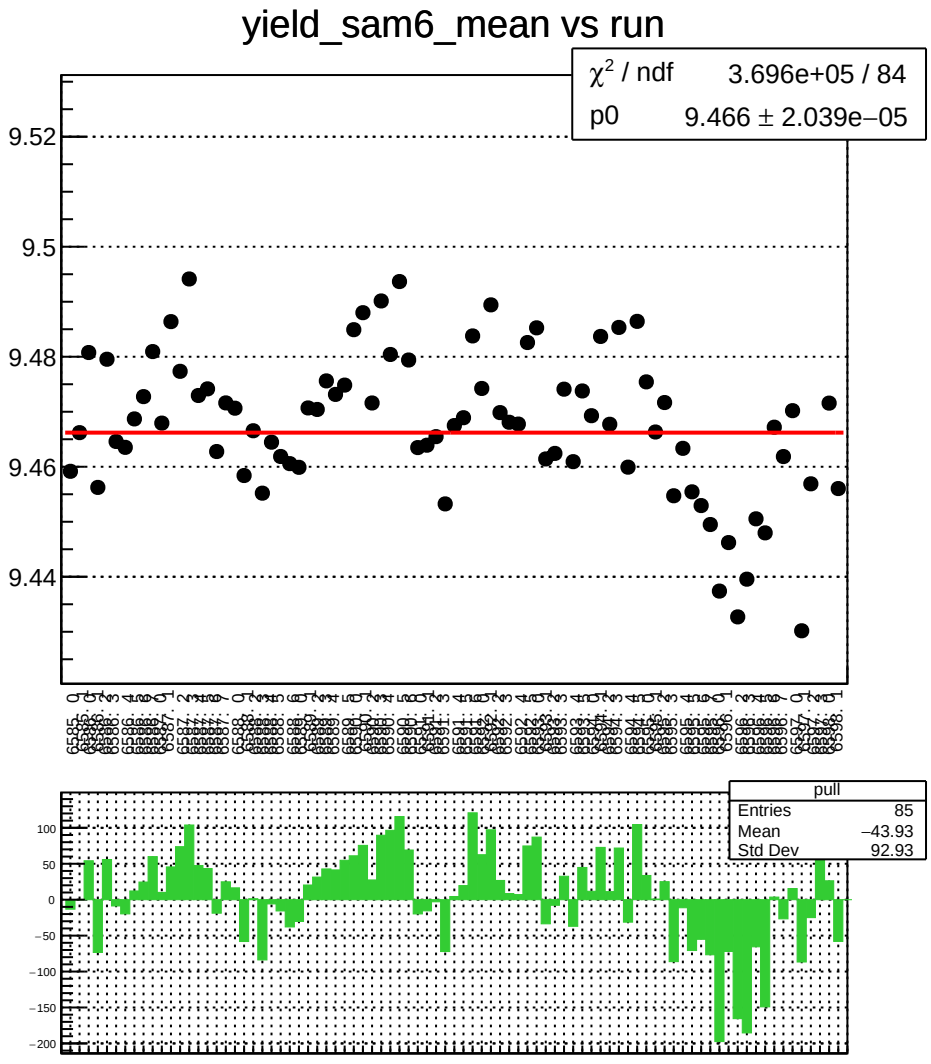


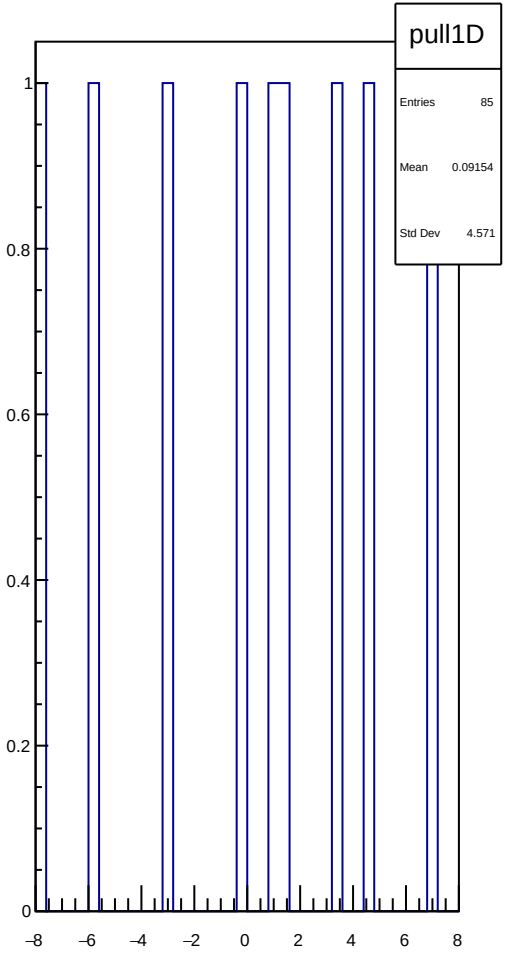

yield_sam5_mean vs run
χ² / ndf 1.779e+06 / 84
p0 17.83 ± 3.528e−05
17.9
17.85
17.8
17.75
17.7
pull
Entries 85
Mean 325.1
Std Dev 278.4
300
200
100
0
−100
−200
−300
−400

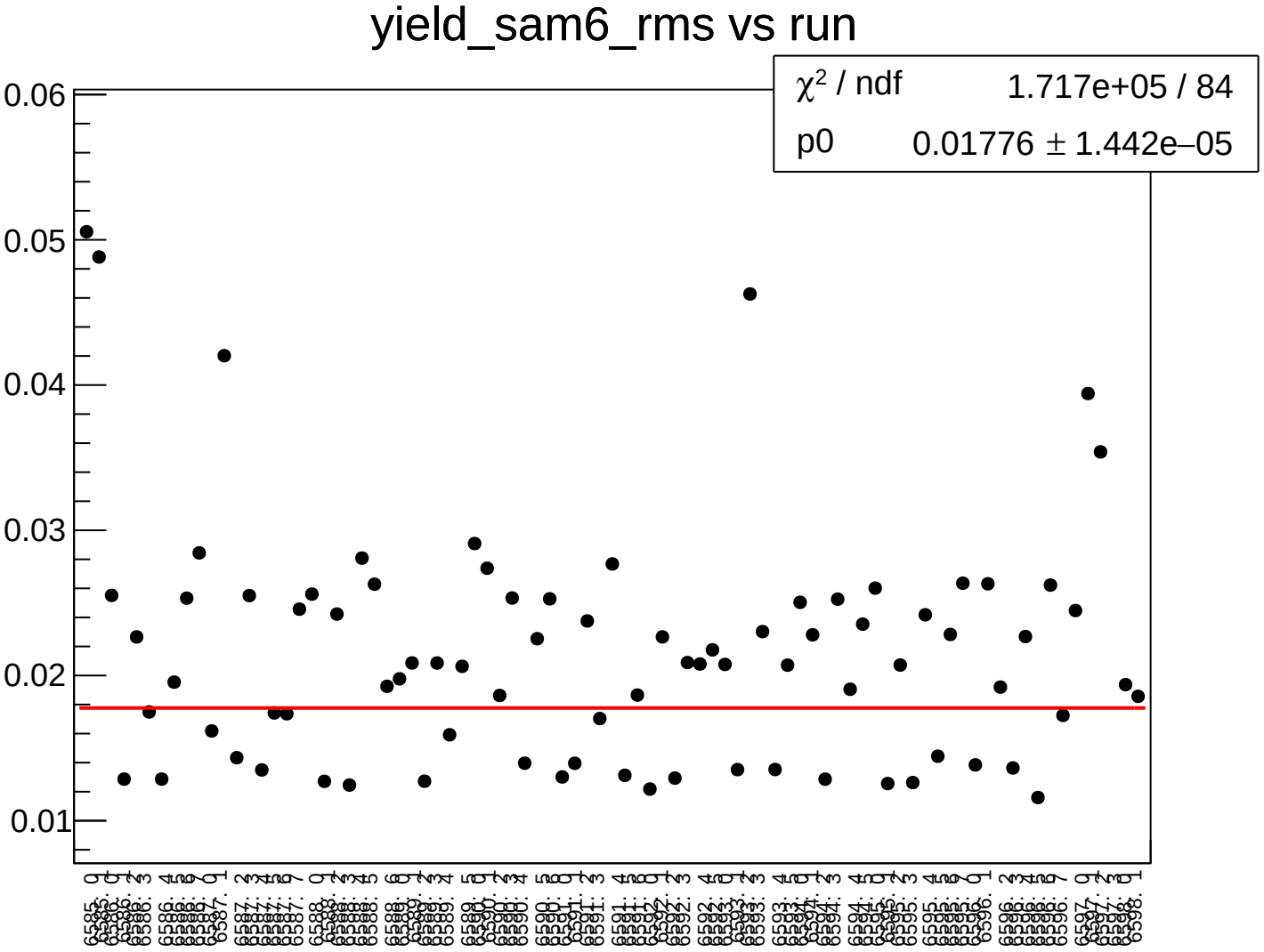

pull1D
Entries 85
Mean −1.727
Std Dev 2.832
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

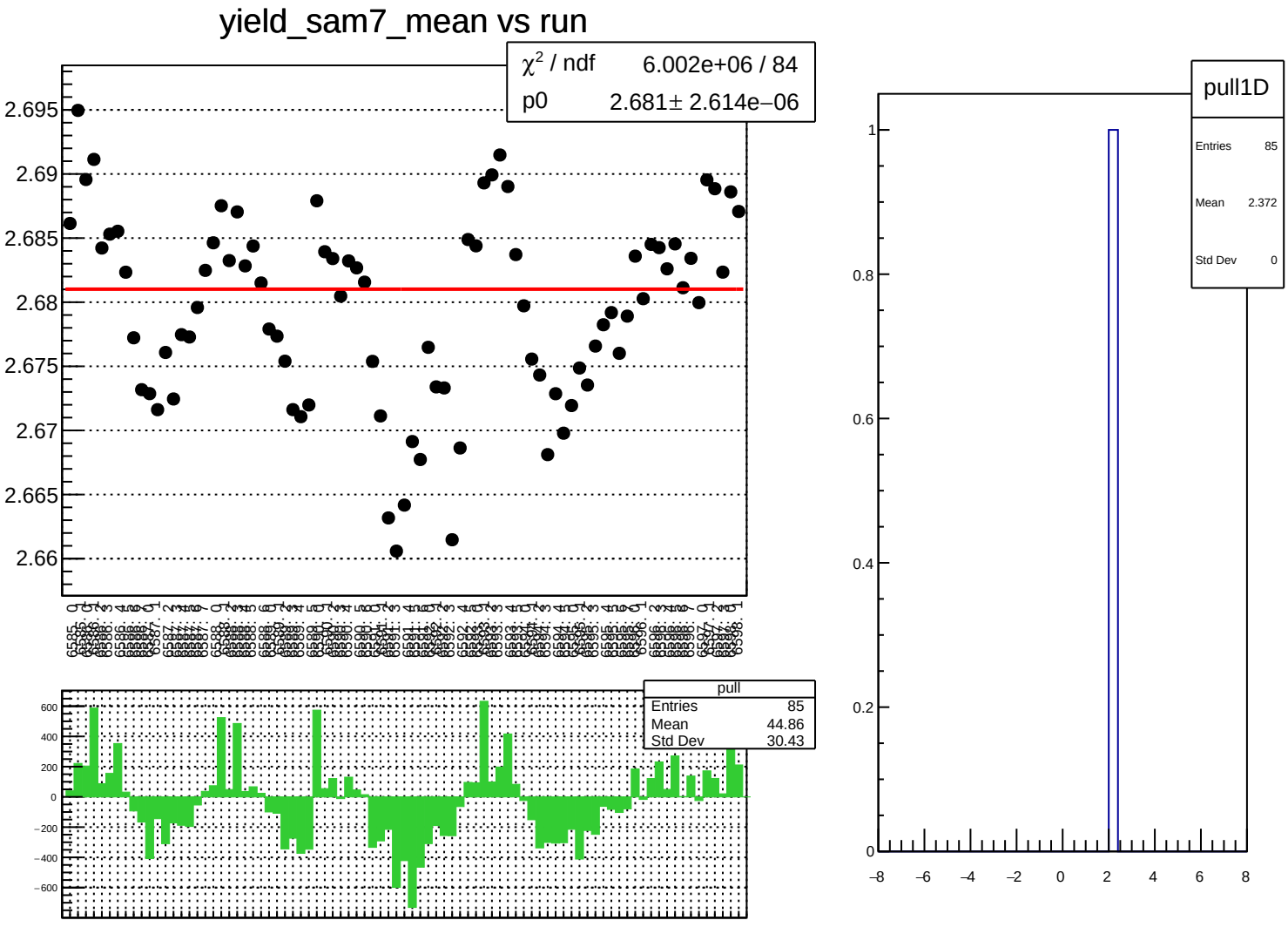
yield_sam5_rms vs run

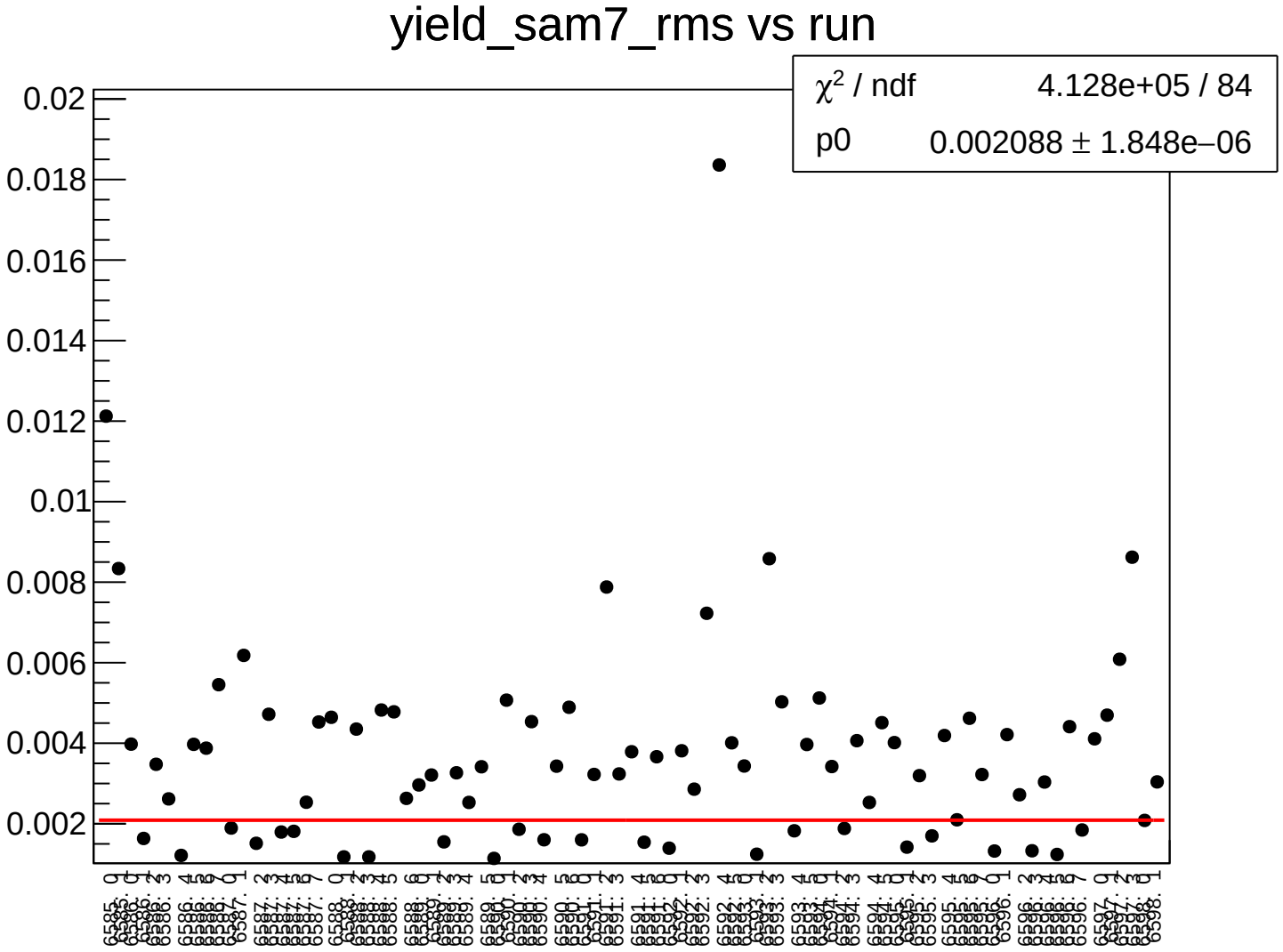


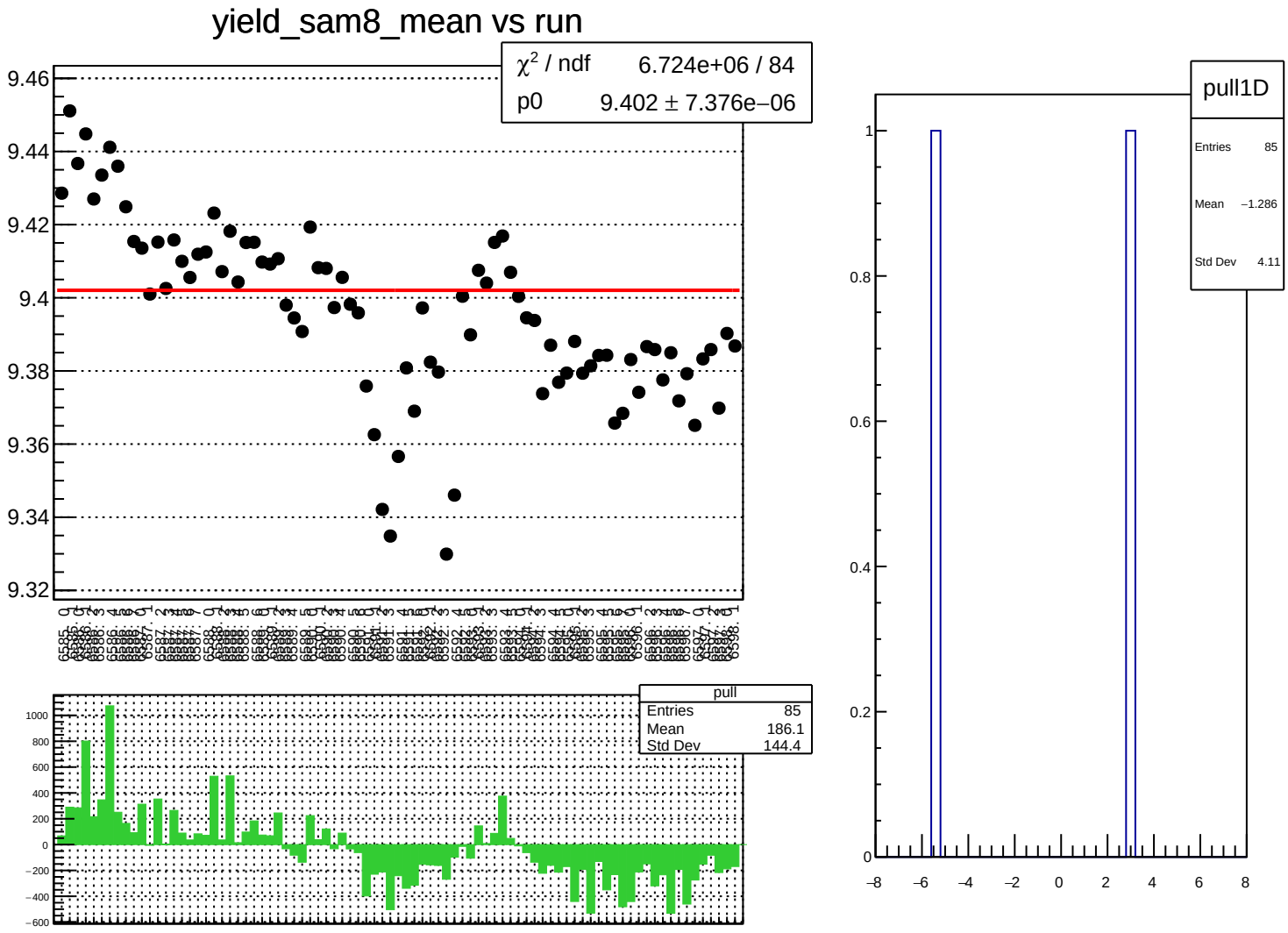

yield_sam6_mean vs run
χ^2 / ndf 3.696e+05 / 84
p0 9.466 ± 2.039e−05
9.52
9.5
9.48
9.46
9.44
pull
Entries 85
Mean −43.93
Std Dev 92.93
100
50
0
−50
−100
−150
−200

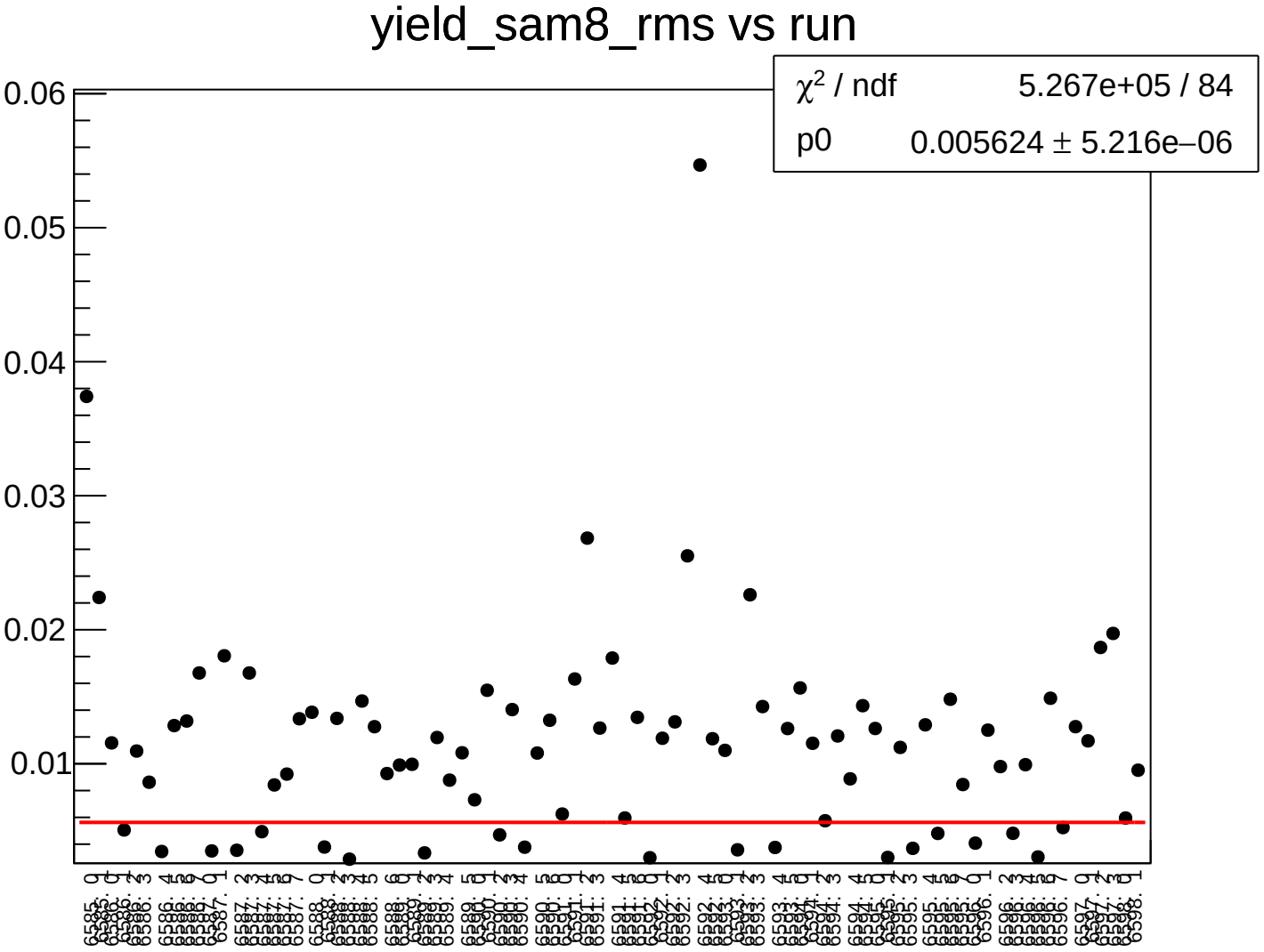

pull1D
Entries 85
Mean 0.09154
Std Dev 4.571
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

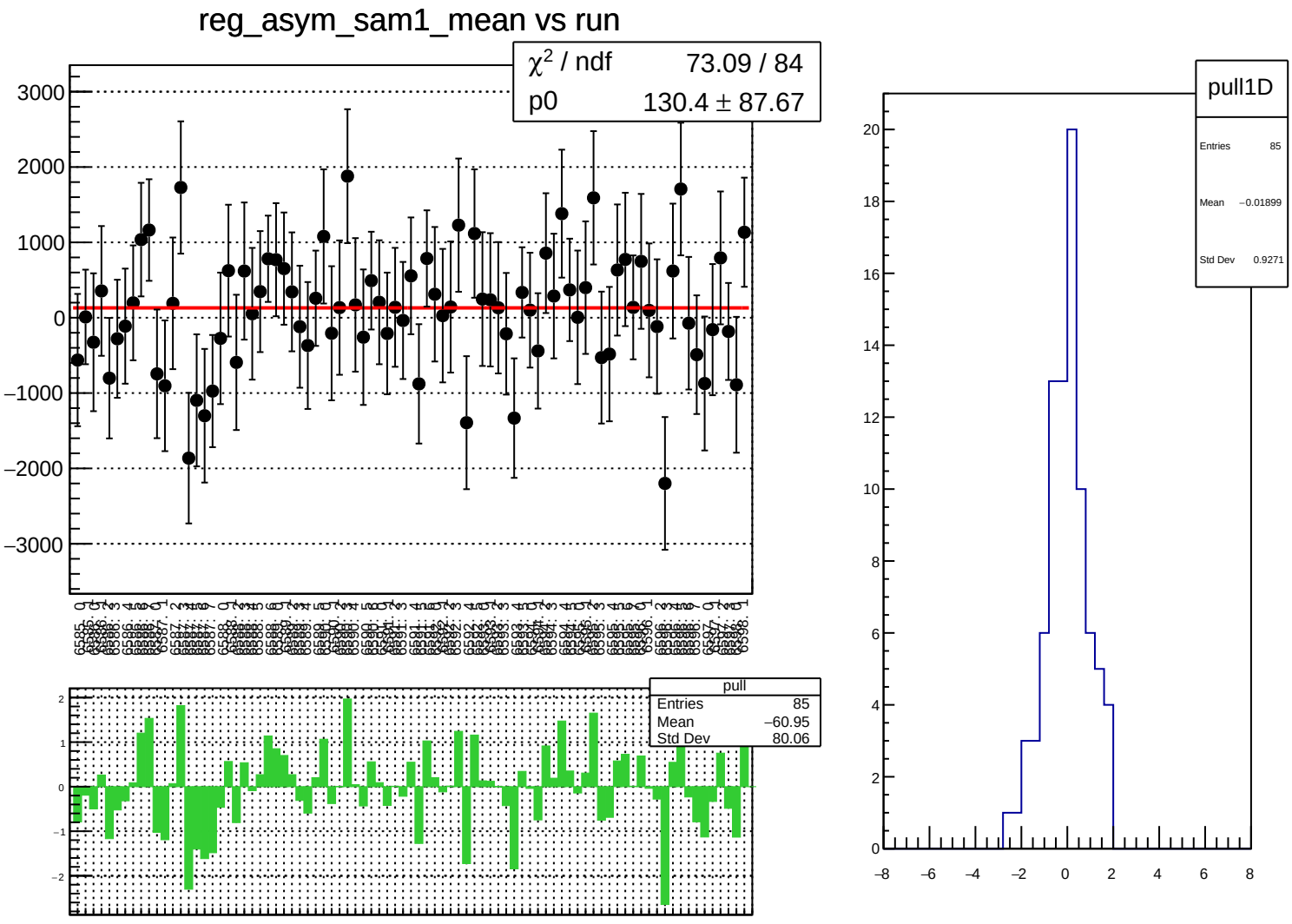

yield_sam6_rms vs run
χ^2 / ndf 1.717e+05 / 84
p0 0.01776 ± 1.442e–05
0.06
0.05
0.04
0.03
0.02
0.01


yield_sam7_mean vs run
χ² / ndf 6.002e+06 / 84
p0 2.681± 2.614e−06
2.695
2.69
2.685
2.68
2.675
2.67
2.665
2.66
pull
Entries 85
Mean 44.86
Std Dev 30.43
600
400
200
0
−200
−400
−600
pull1D
Entries 85
Mean 2.372
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

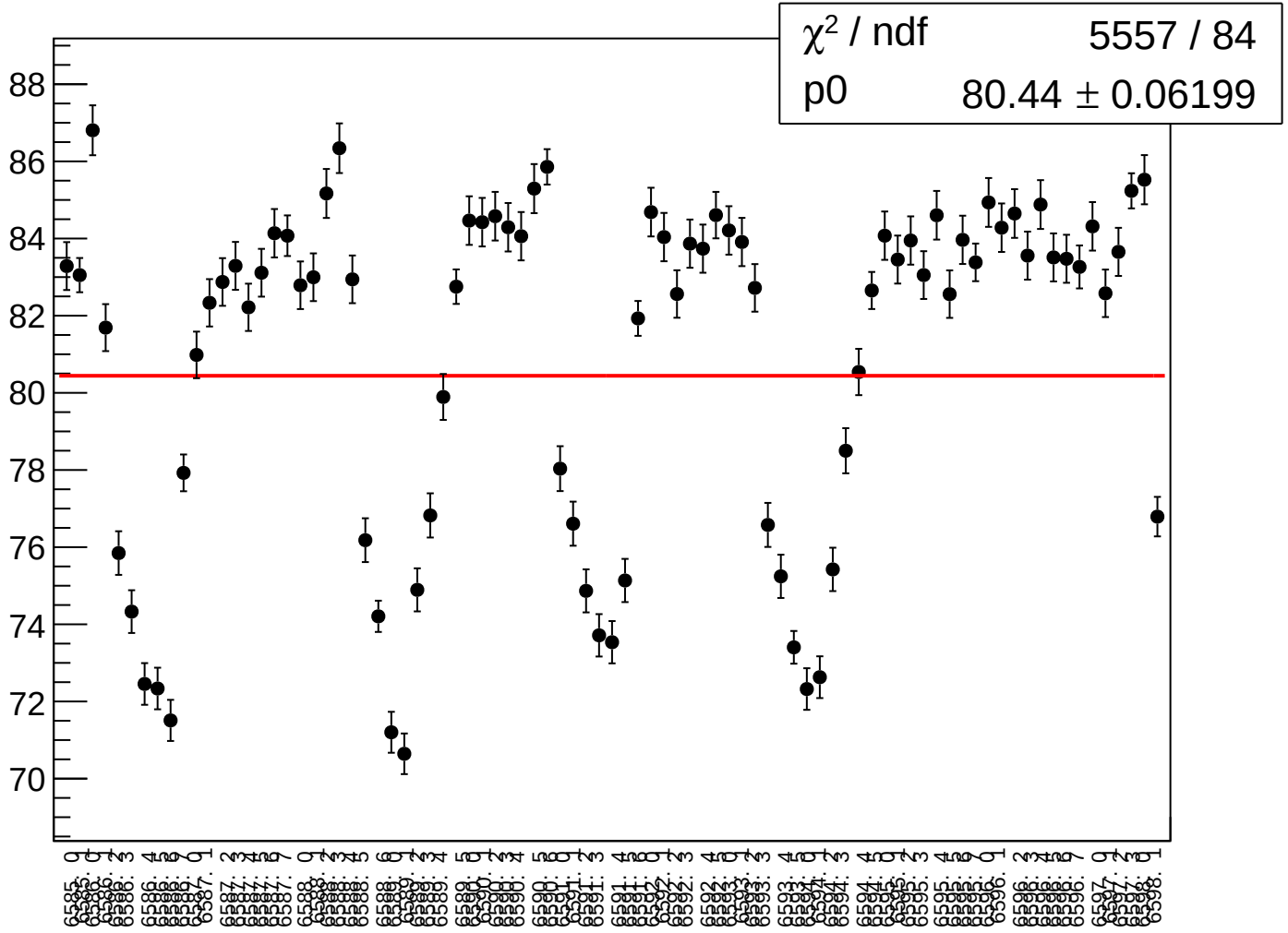

yield_sam7_rms vs run
χ^2 / ndf 4.128e+05 / 84
p0 0.002088 ± 1.848e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

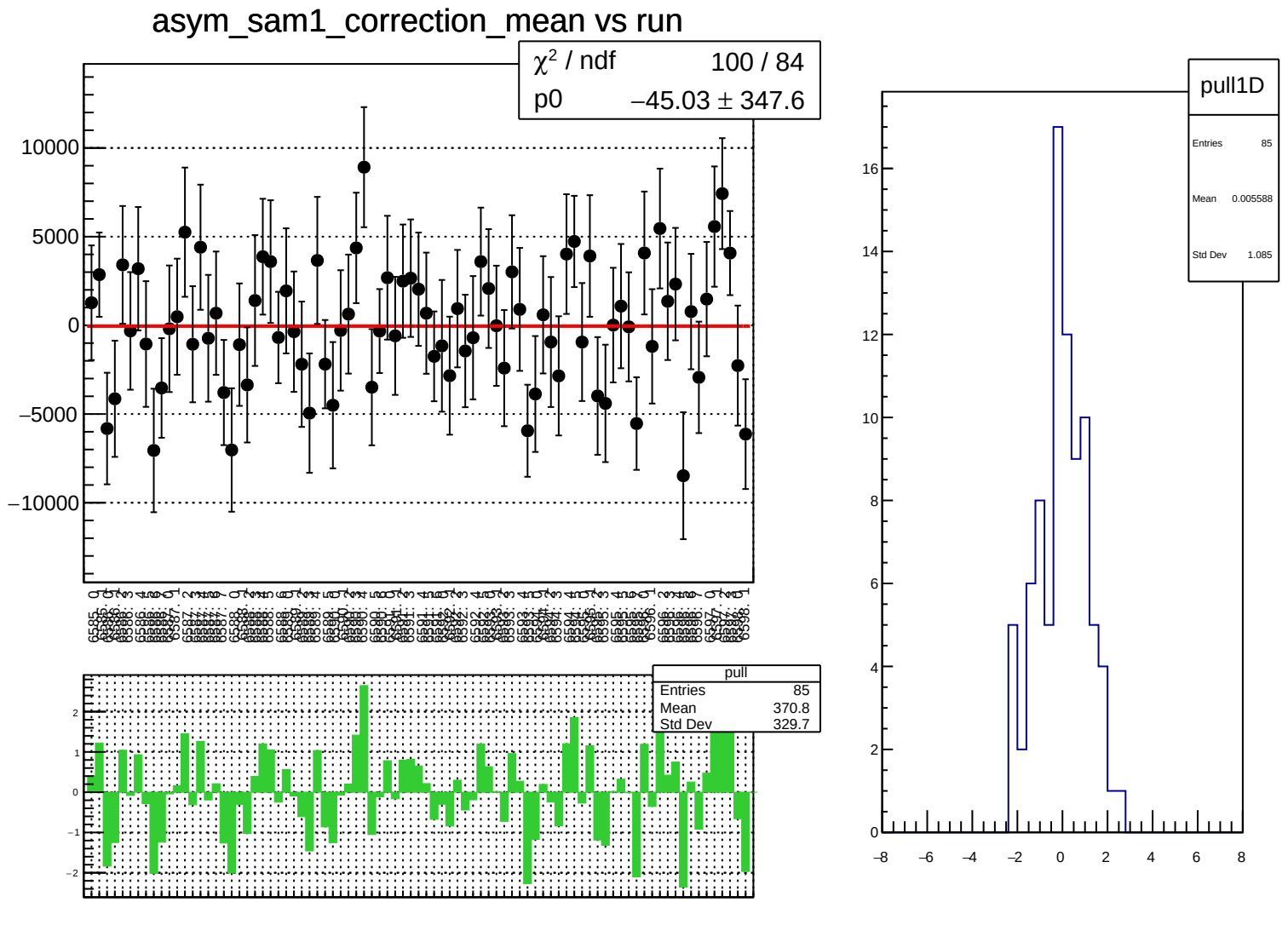

yield_sam8_mean vs run
χ^2 / ndf 6.724e+06 / 84
p0 9.402 ± 7.376e−06
9.46
9.44
9.42
9.4
9.38
9.36
9.34
9.32
pull
Entries 85
Mean 186.1
Std Dev 144.4
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 85
Mean −1.286
Std Dev 4.11
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

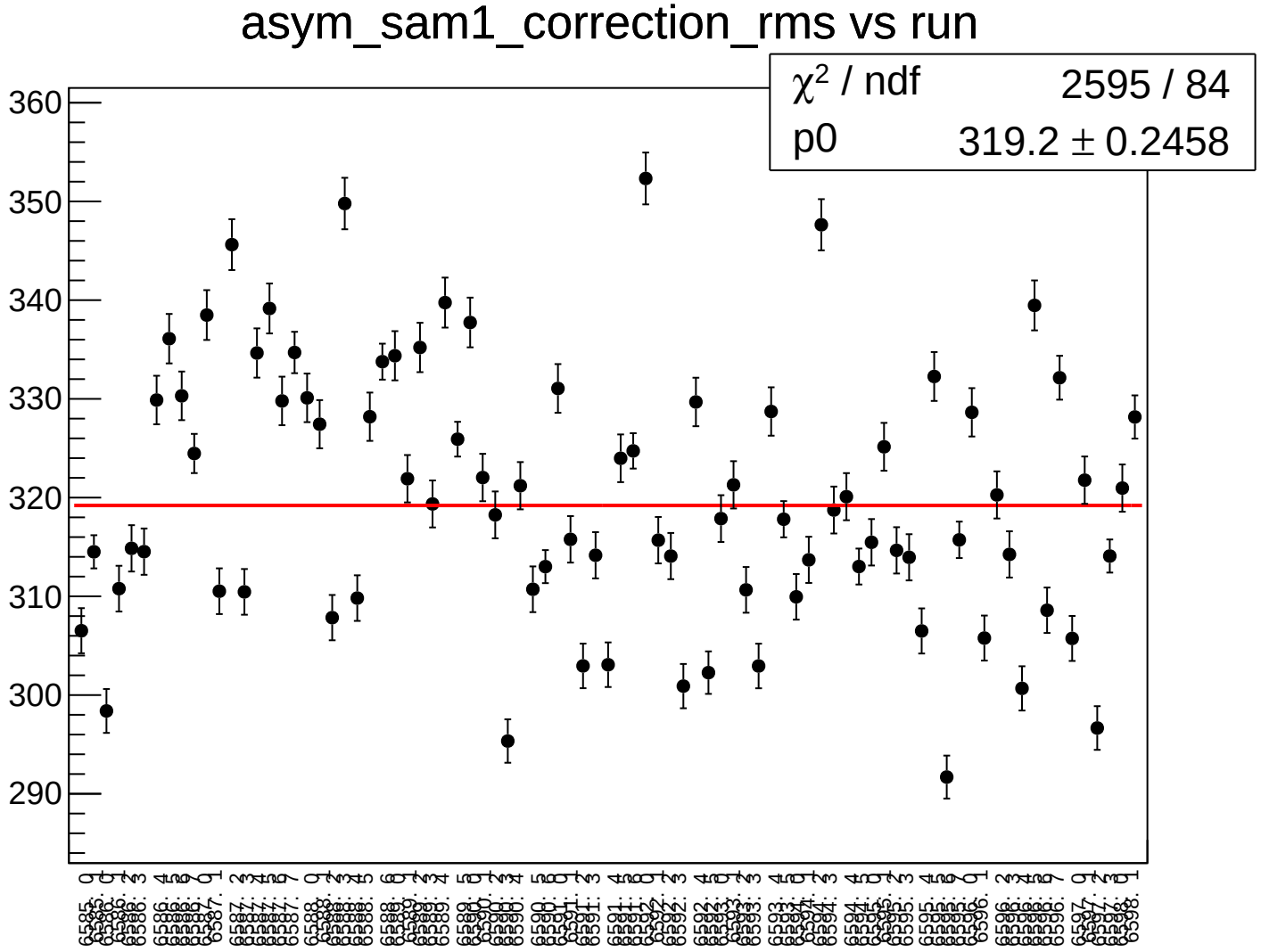

yield_sam8_rms vs run
χ^2 / ndf 5.267e+05 / 84
p0 0.005624 ± 5.216e−06
0.06
0.05
0.04
0.03
0.02
0.01

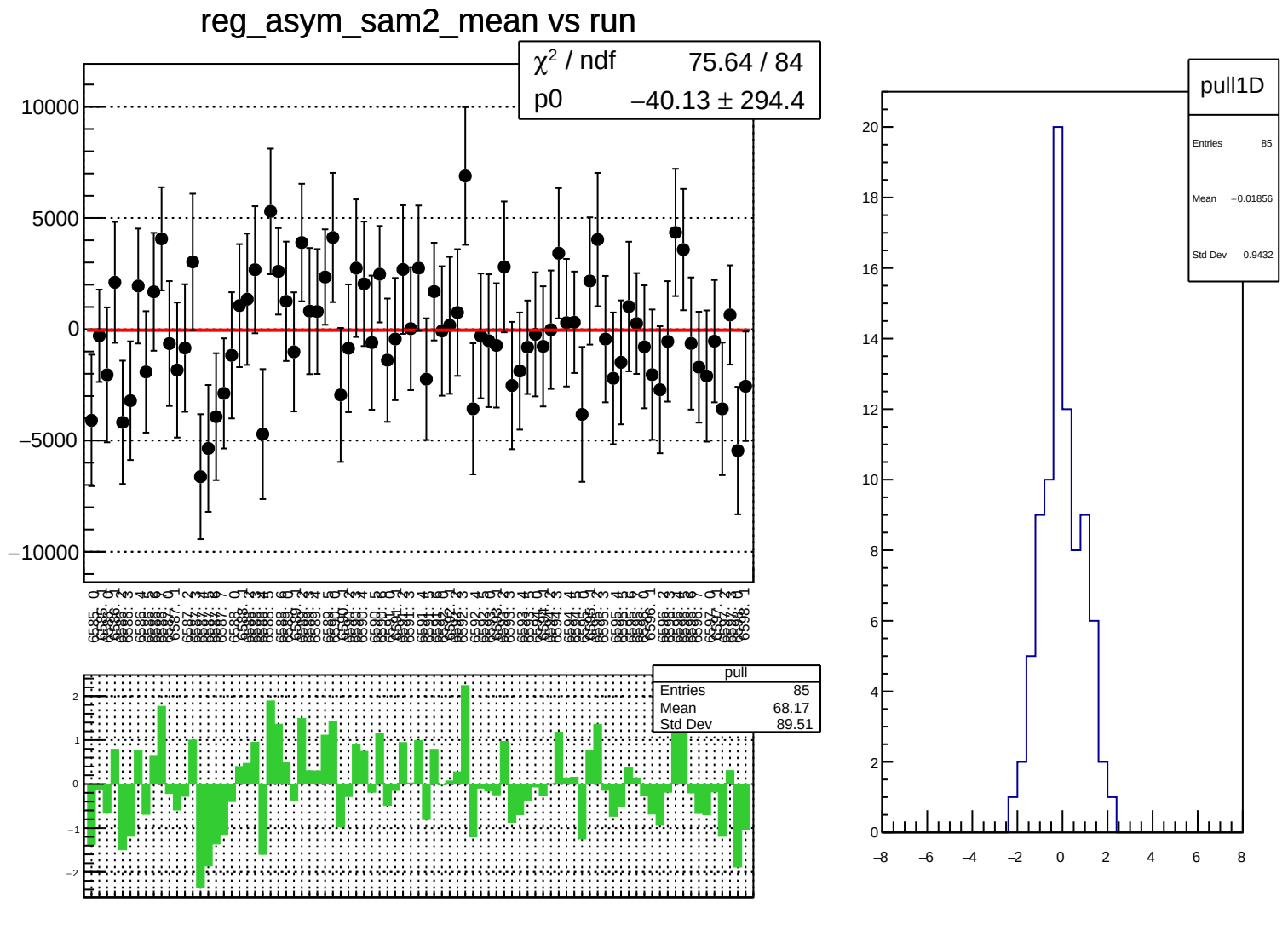

reg_asym_sam1_mean vs run
χ² / ndf 73.09 / 84
p0 130.4 ± 87.67
pull
Entries 85
Mean −60.95
Std Dev 80.06
pull1D
Entries 85
Mean −0.01899
Std Dev 0.9271

reg_asym_sam1_rms vs run

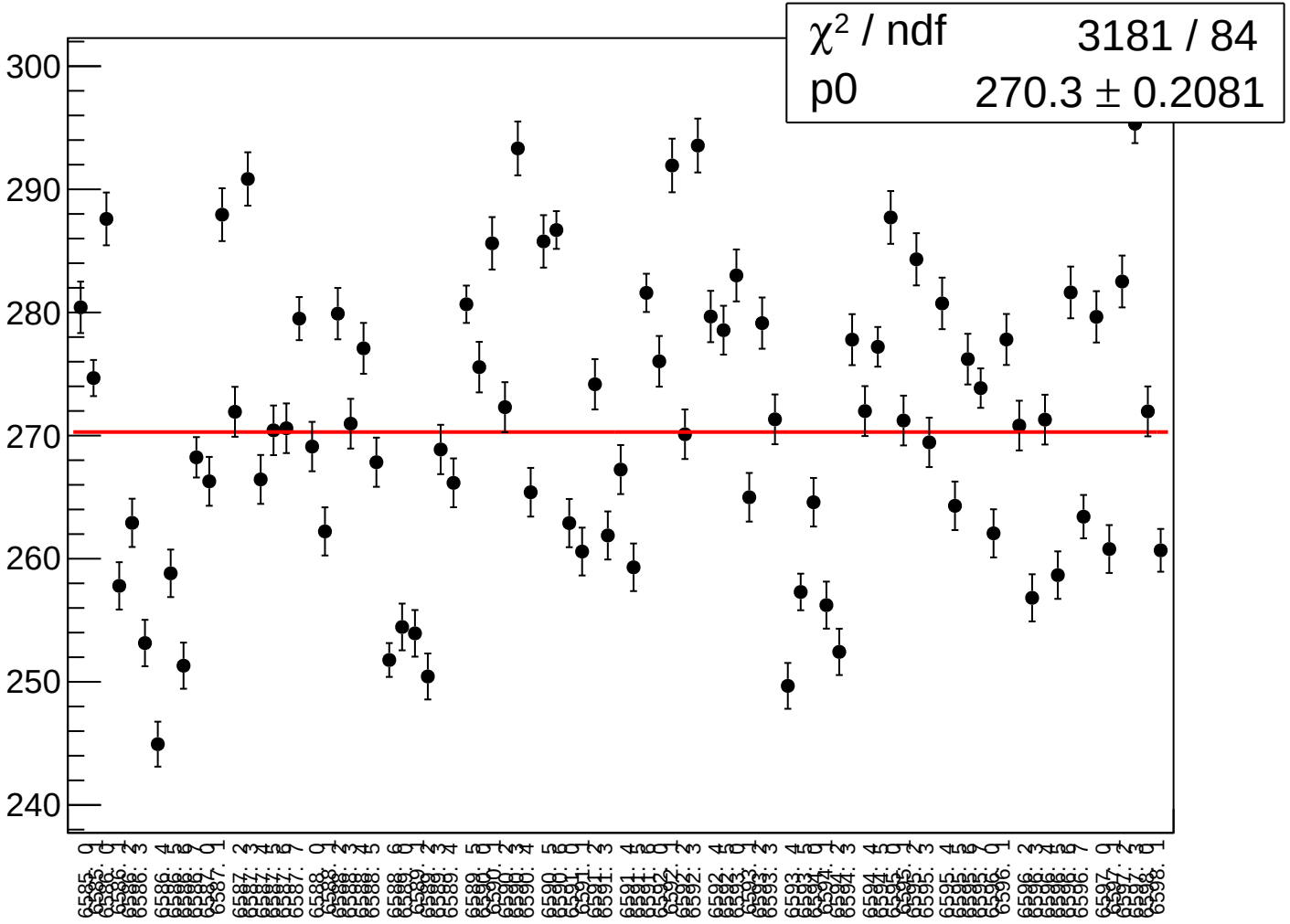


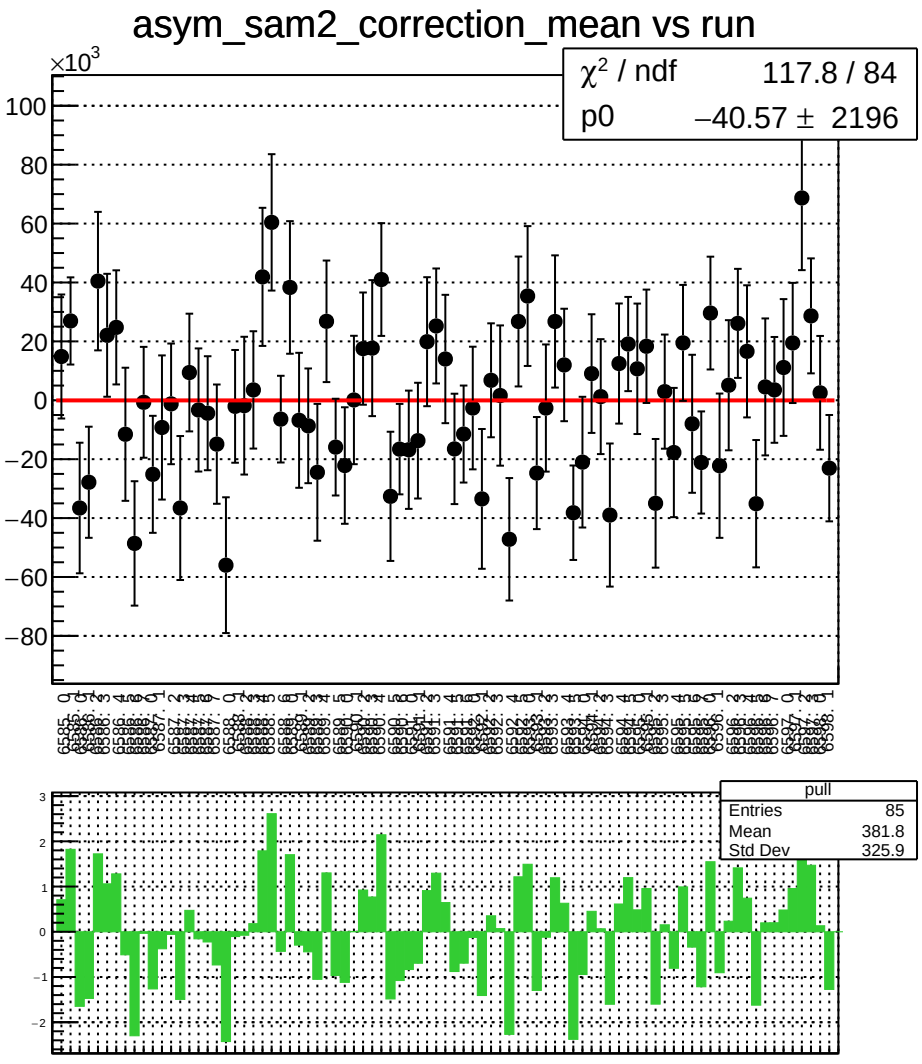

asym_sam1_correction_mean vs run
χ² / ndf 100 / 84
p0 −45.03 ± 347.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 370.8
Std Dev 329.7
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005588
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

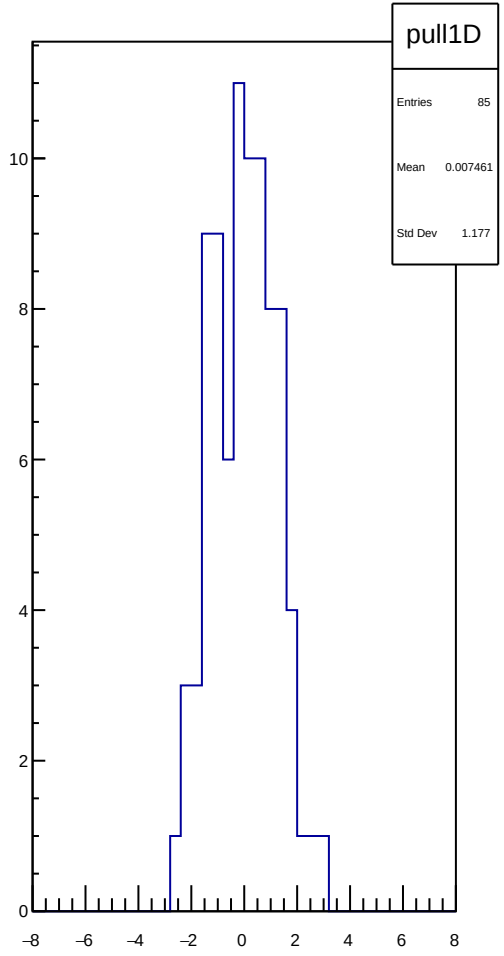

asym_sam1_correction_rms vs run
χ^2 / ndf 2595 / 84
p0 319.2 ± 0.2458
360
350
340
330
320
310
300
290


reg_asym_sam2_mean vs run
χ² / ndf 75.64 / 84
p0 −40.13 ± 294.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 68.17
Std Dev 89.51
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01856
Std Dev 0.9432
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

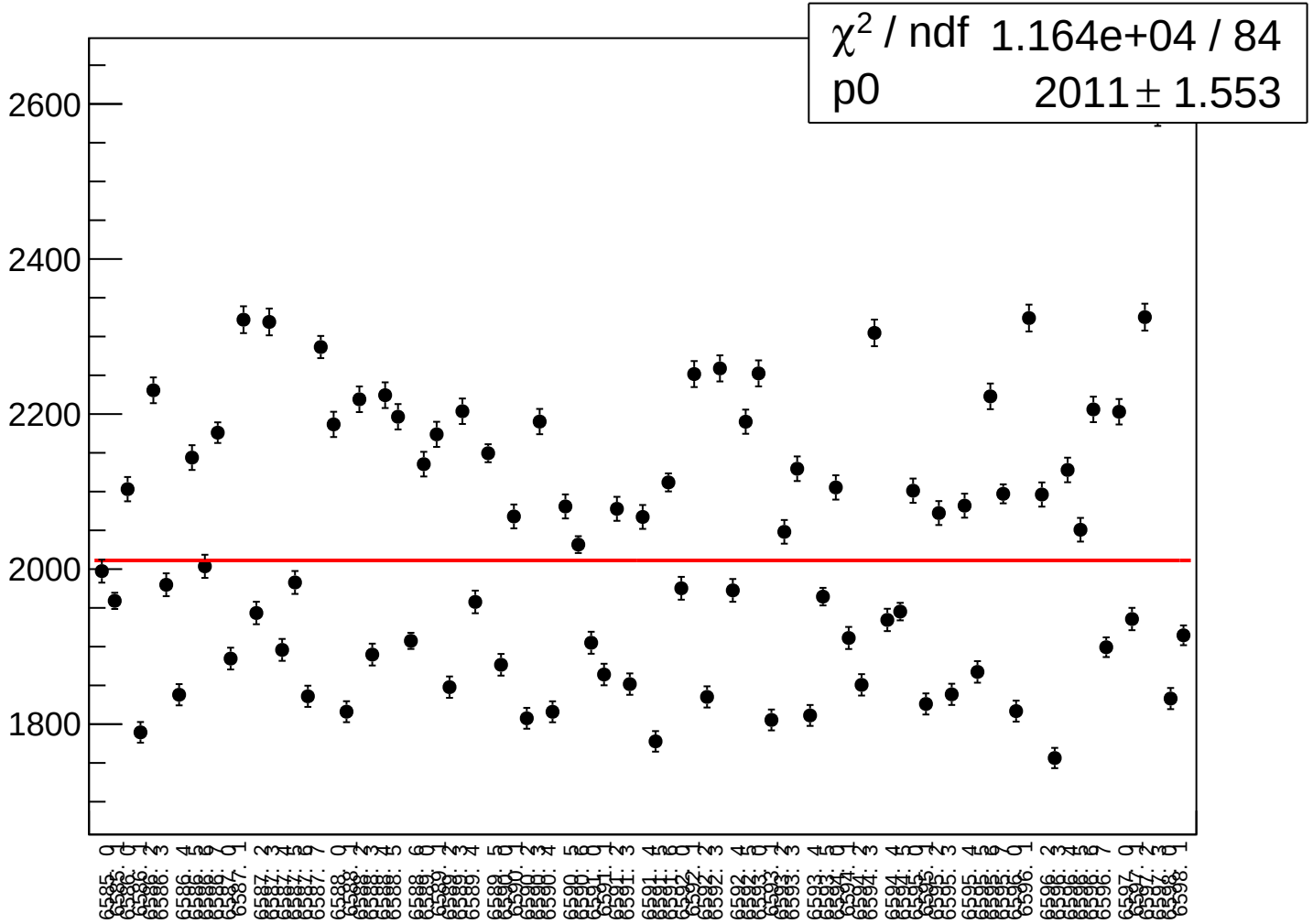
reg_asym_sam2_rms vs run

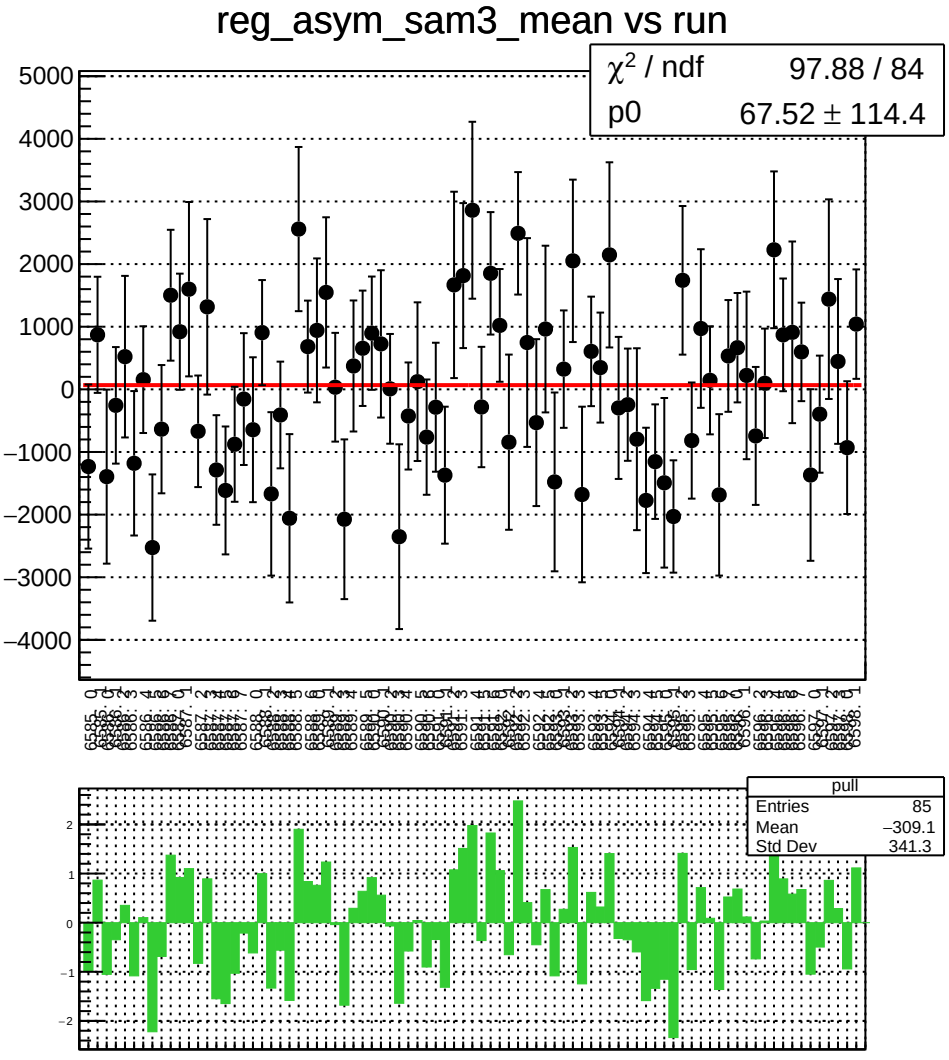


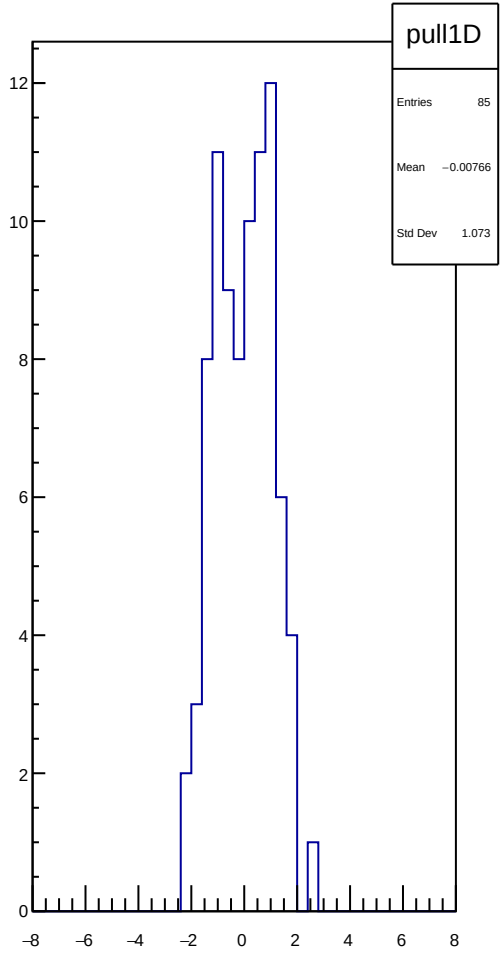

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 117.8 / 84
p0 −40.57 ± 2196
pull
Entries 85
Mean 381.8
Std Dev 325.9


pull1D
Entries 85
Mean 0.007461
Std Dev 1.177

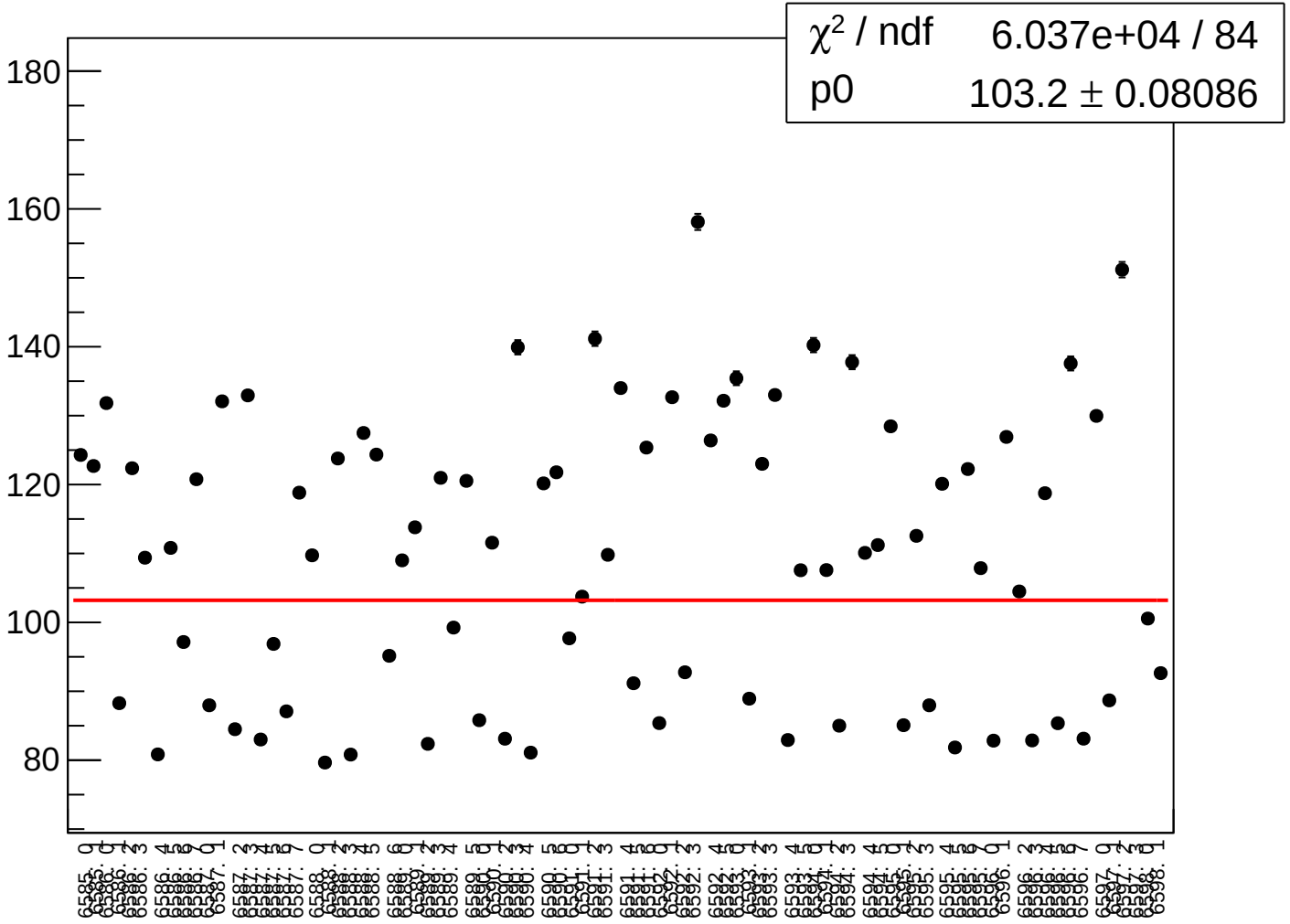
asym_sam2_correction_rms vs run

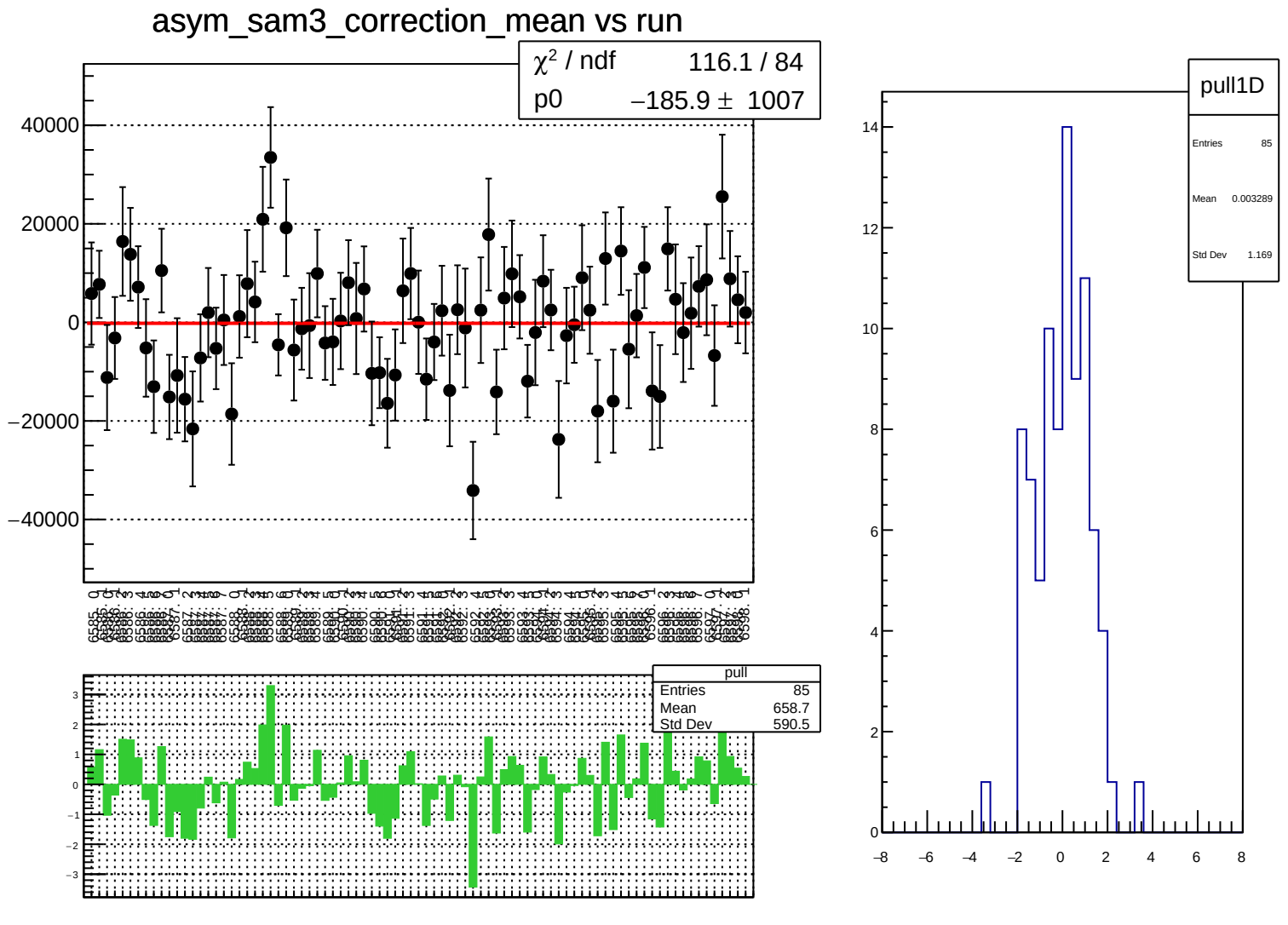



reg_asym_sam3_mean vs run
χ^2 / ndf 97.88 / 84
p0 67.52 ± 114.4
pull
Entries 85
Mean −309.1
Std Dev 341.3

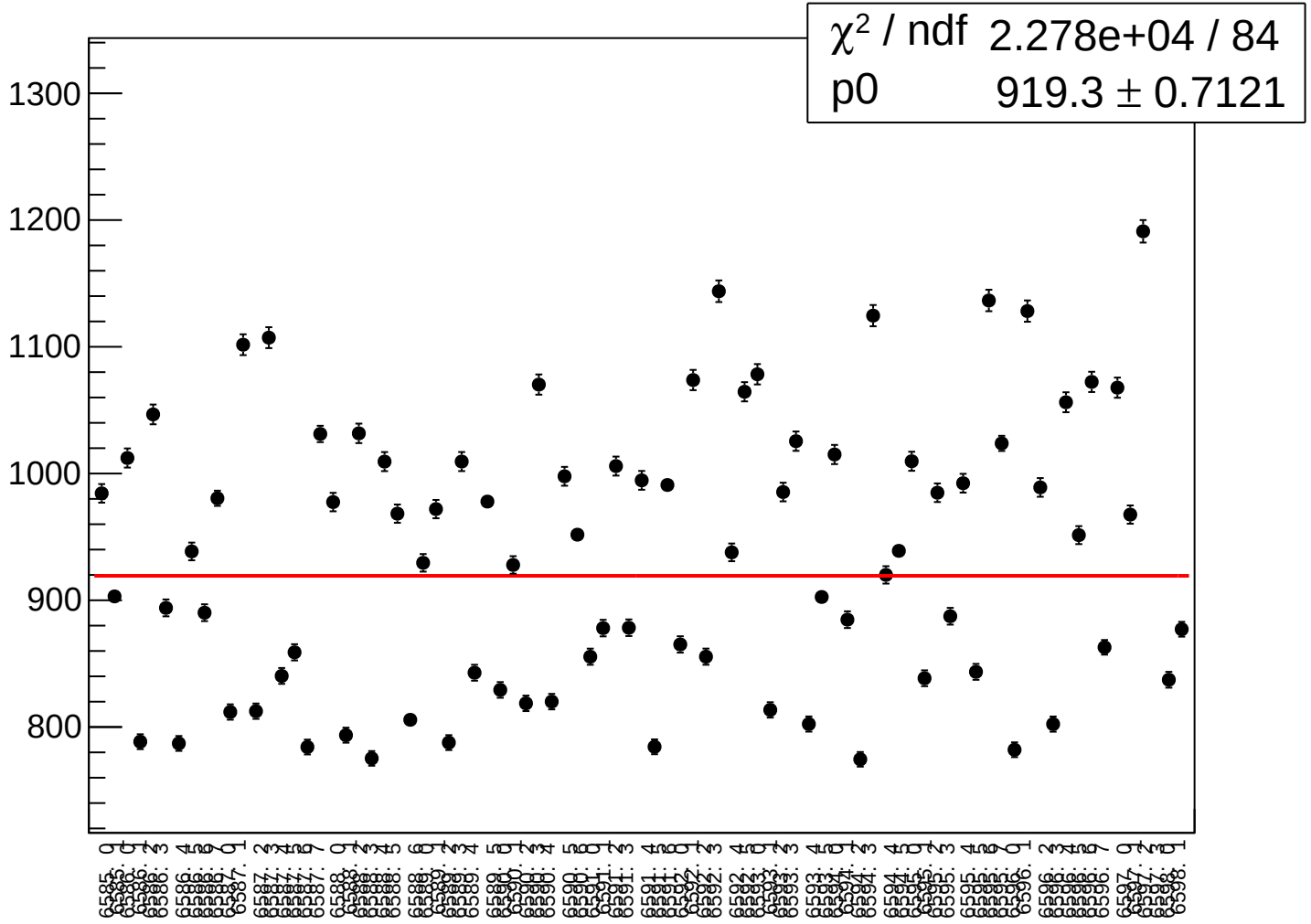

pull1D
Entries 85
Mean −0.00766
Std Dev 1.073

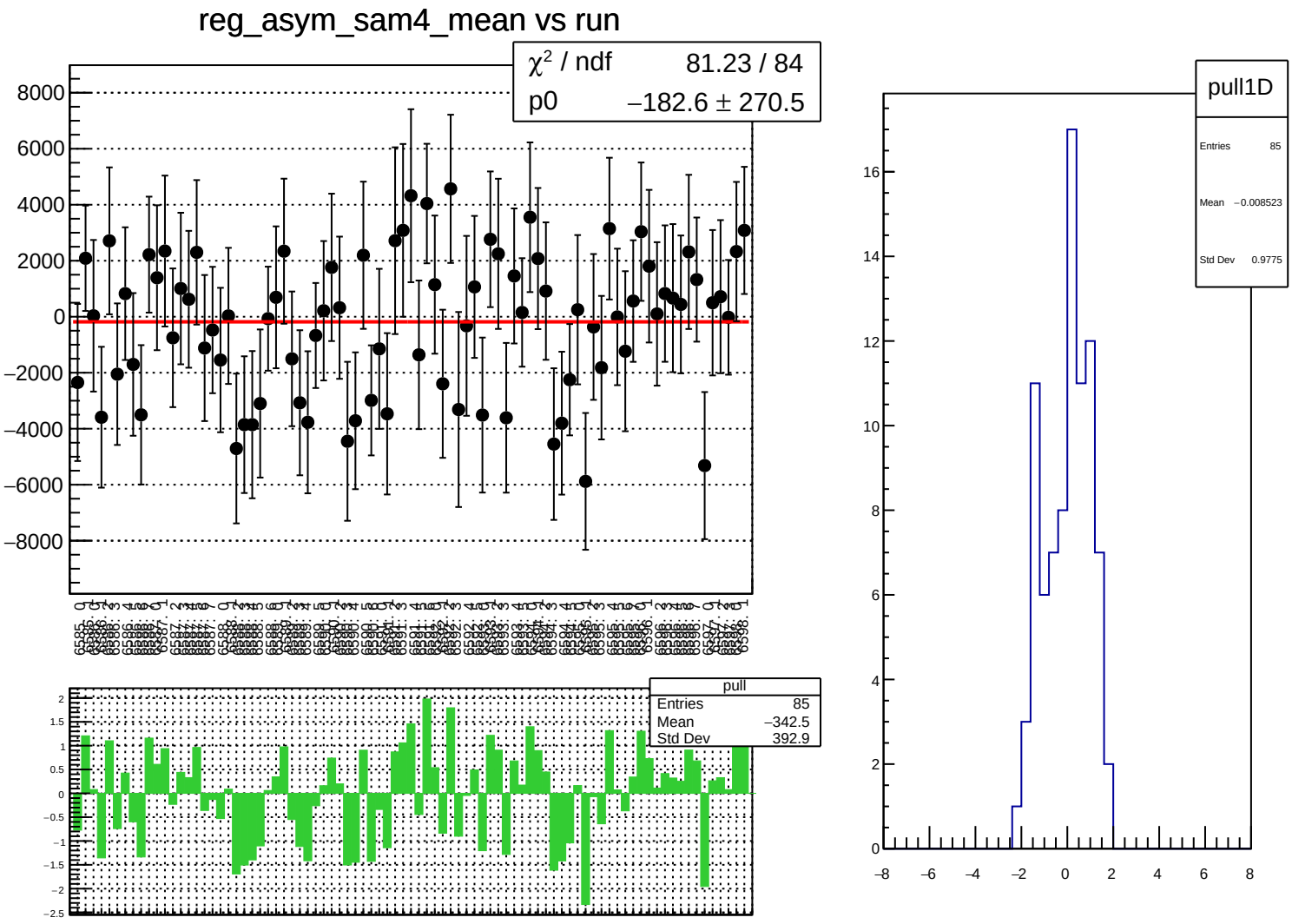
reg_asym_sam3_rms vs run



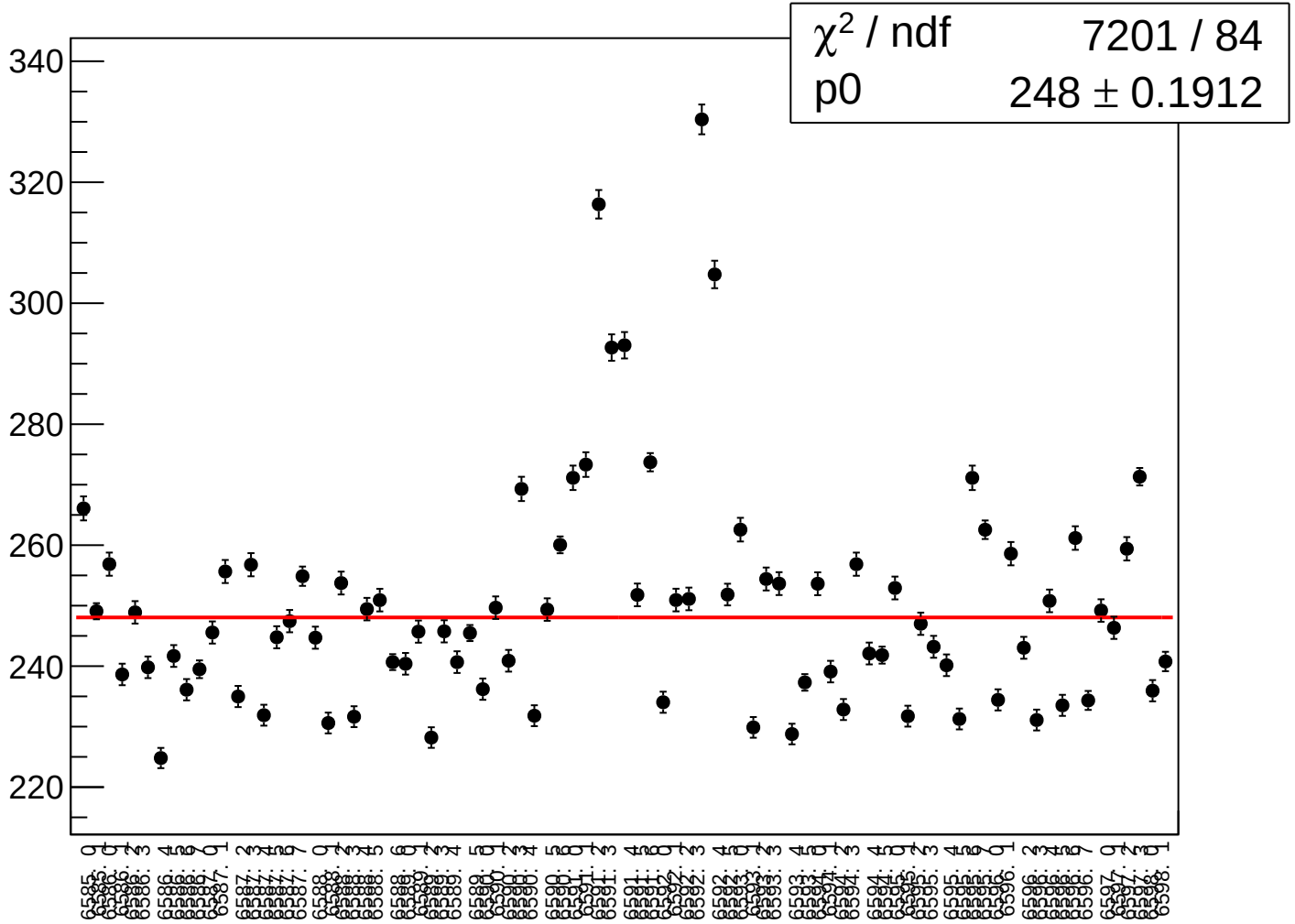

asym_sam3_correction_mean vs run
χ² / ndf 116.1 / 84
p0 −185.9 ± 1007
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 658.7
Std Dev 590.5
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.003289
Std Dev 1.169
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

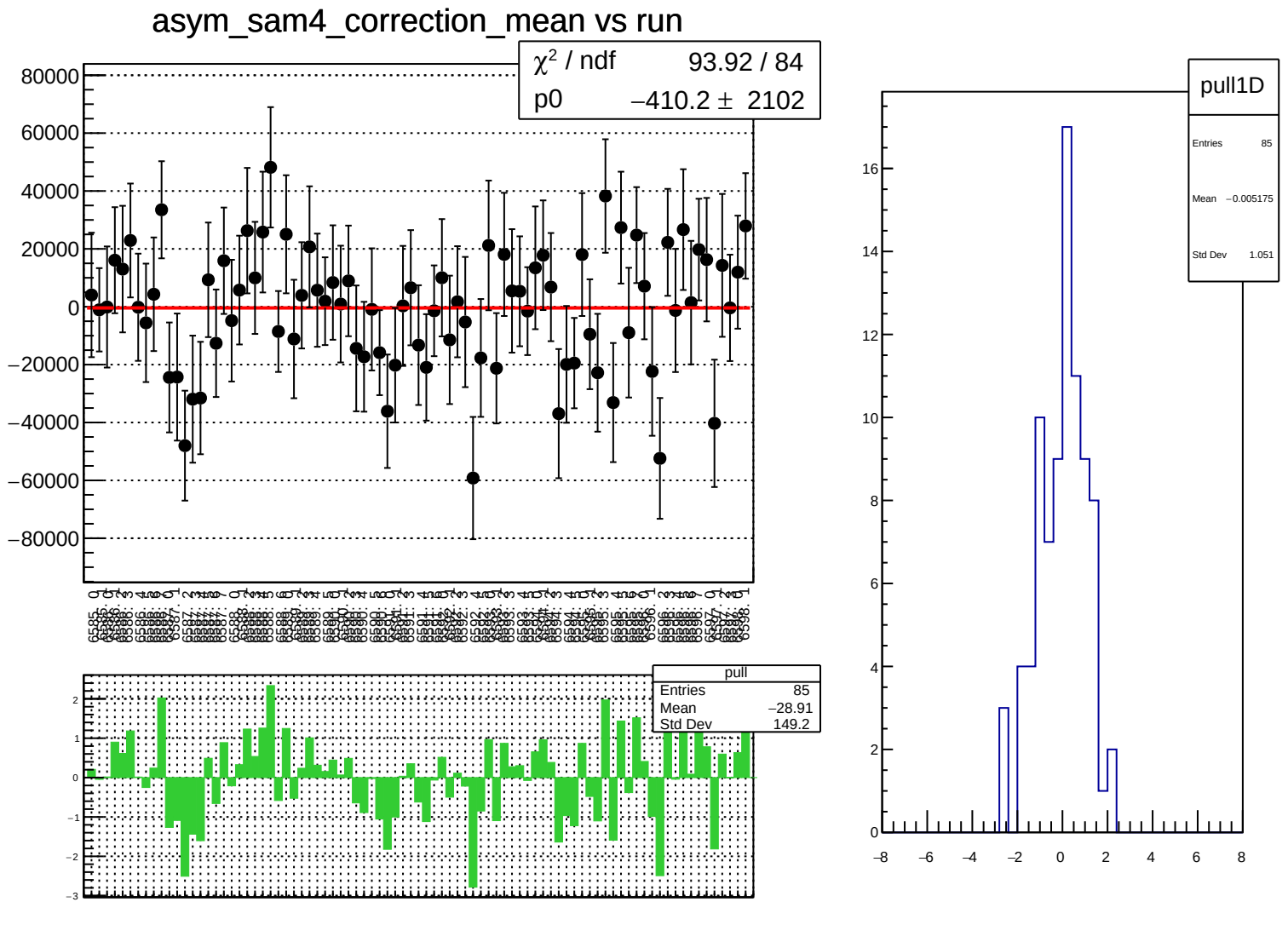
asym_sam3_correction_rms vs run



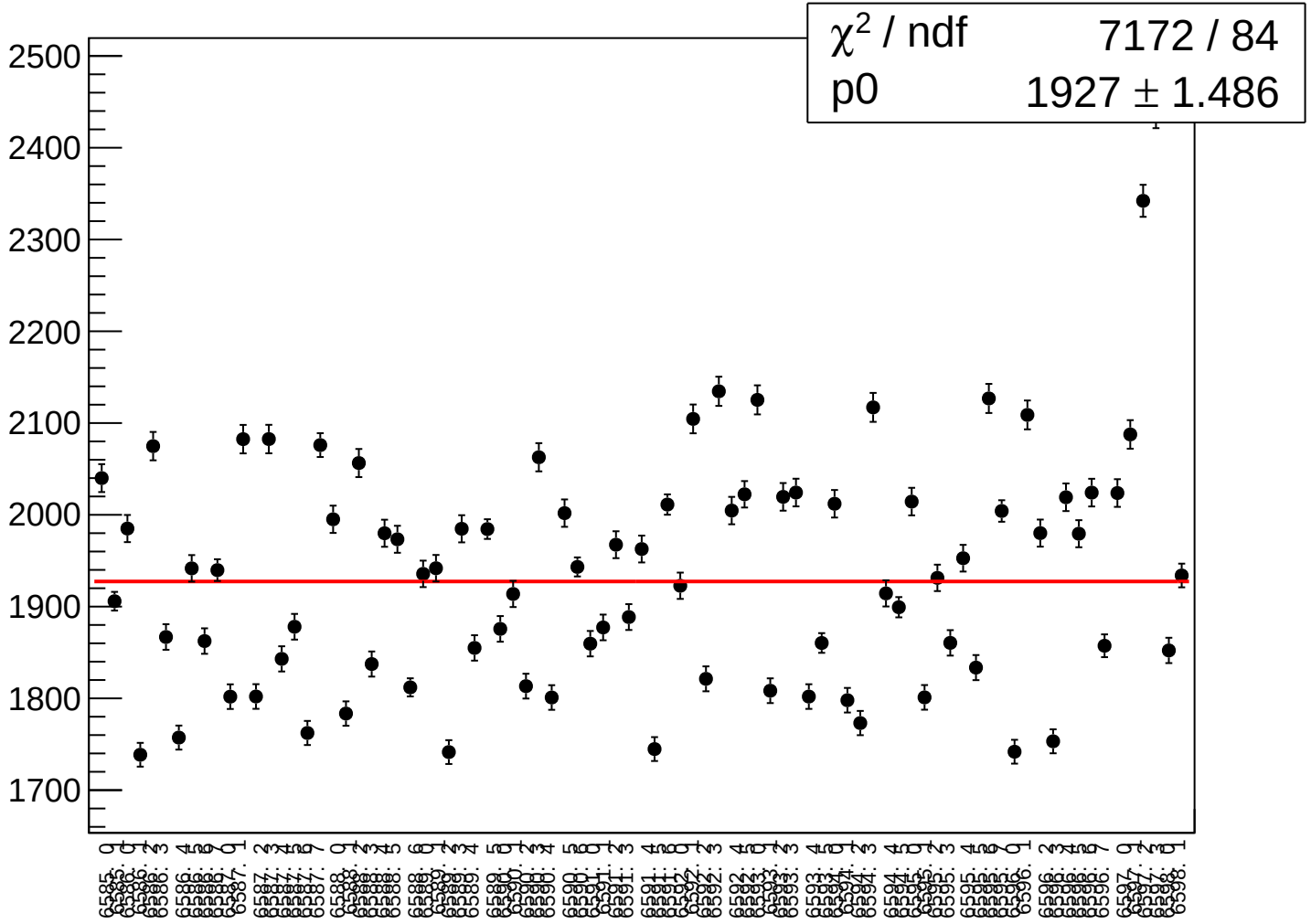

reg_asym_sam4_mean vs run
χ² / ndf 81.23 / 84
p0 −182.6 ± 270.5
pull
Entries 85
Mean −342.5
Std Dev 392.9
pull1D
Entries 85
Mean −0.008523
Std Dev 0.9775

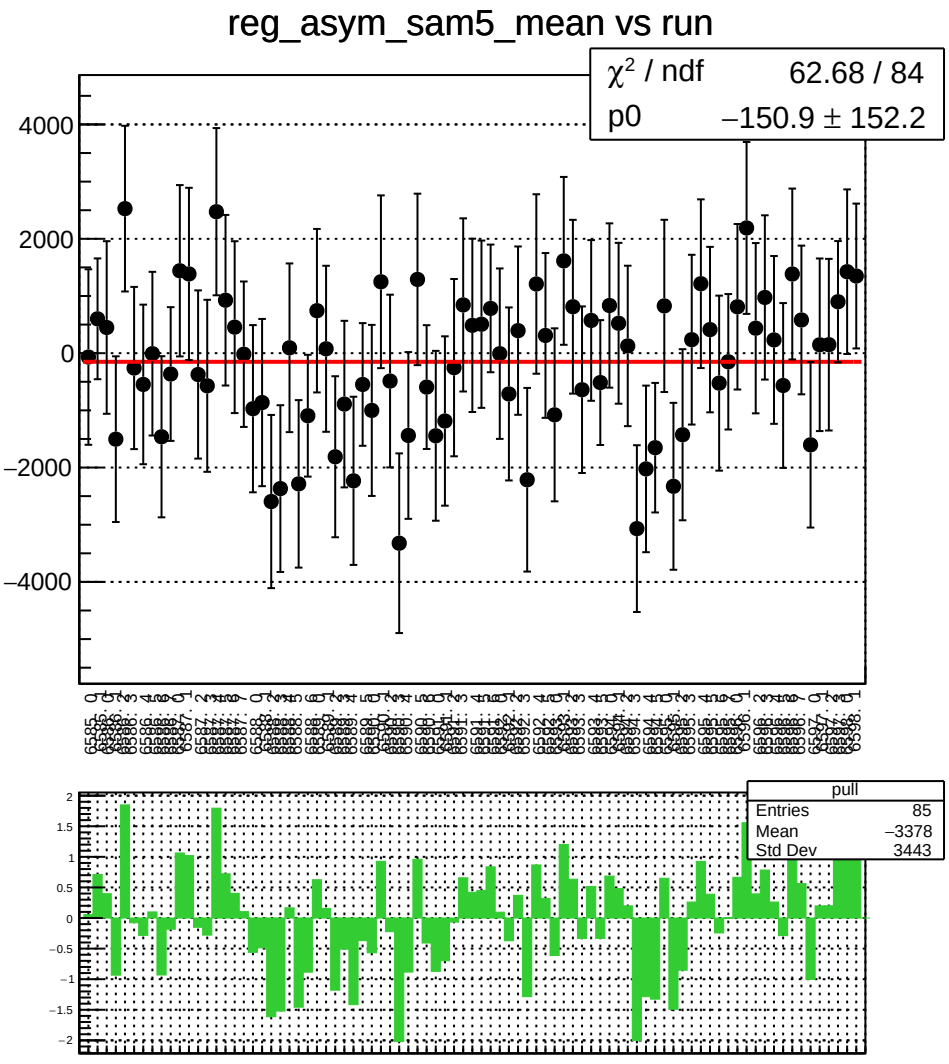
reg_asym_sam4_rms vs run

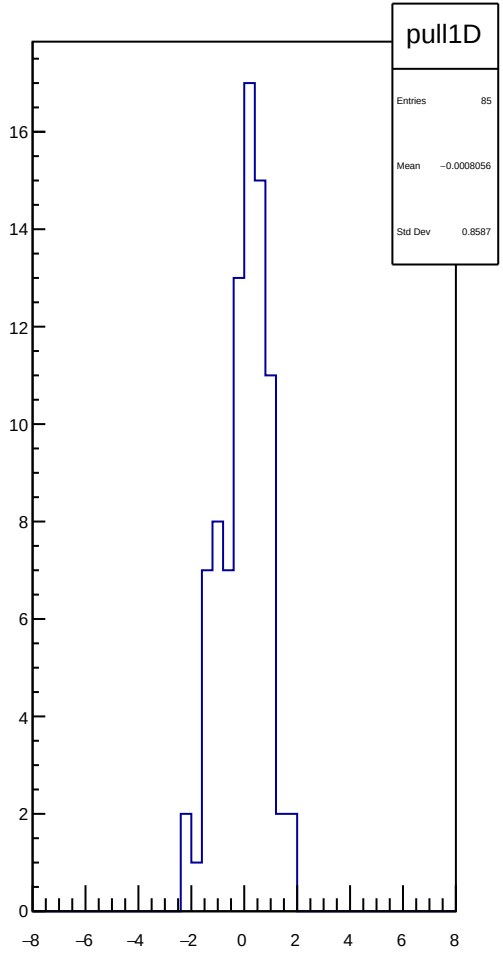


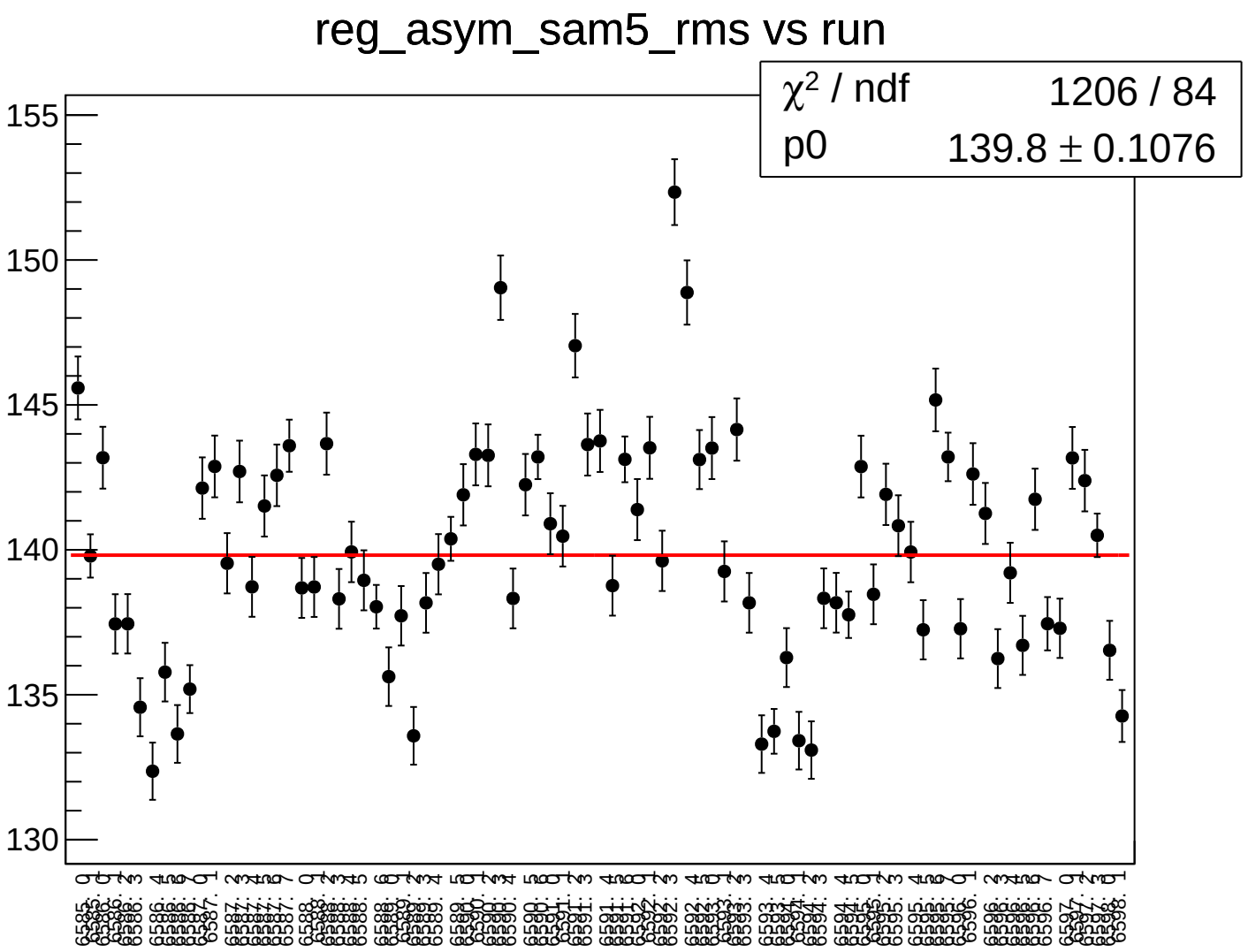

asym_sam4_correction_mean vs run
χ² / ndf 93.92 / 84
p0 −410.2 ± 2102
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −28.91
Std Dev 149.2
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.005175
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

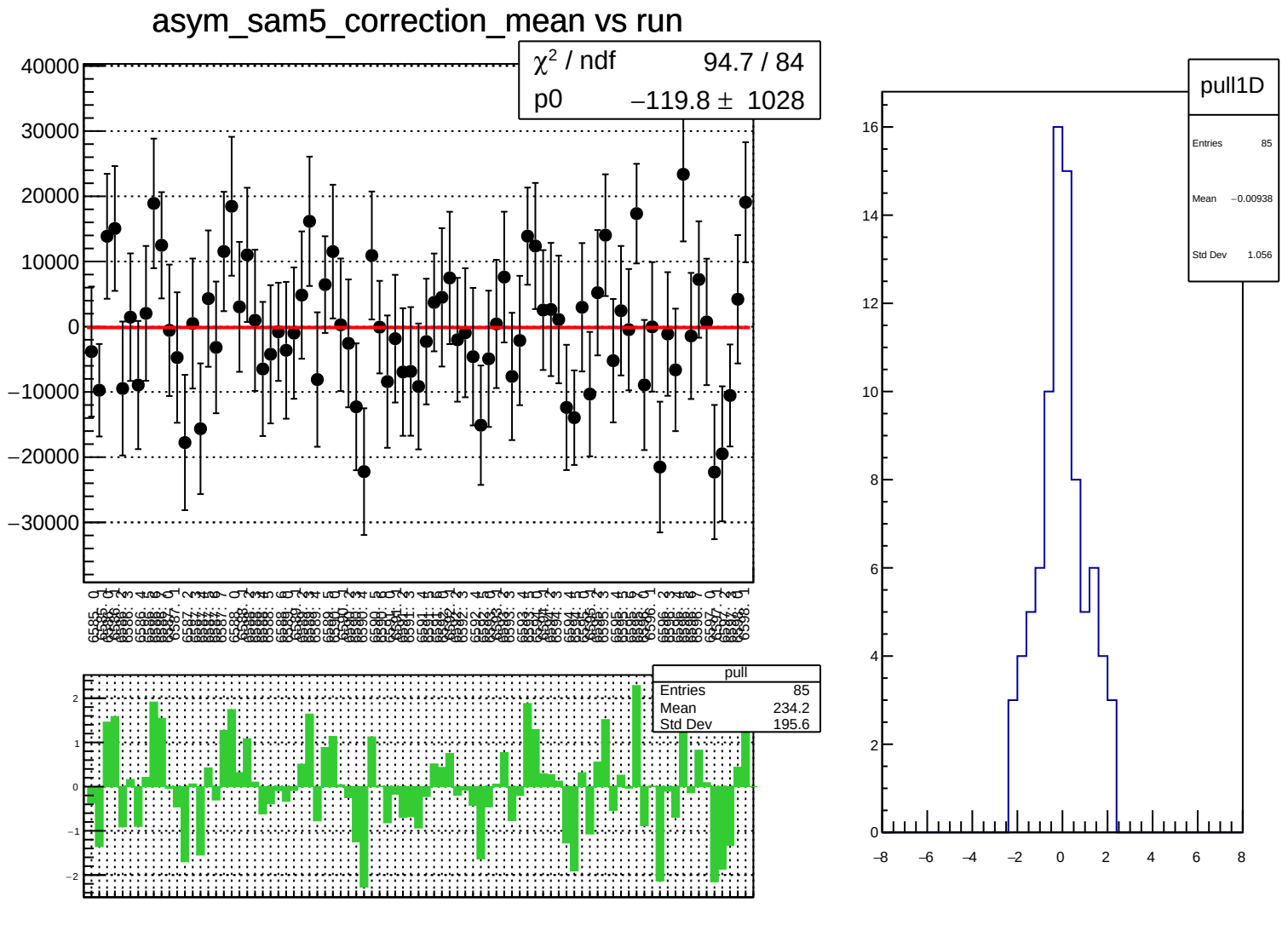
asym_sam4_correction_rms vs run



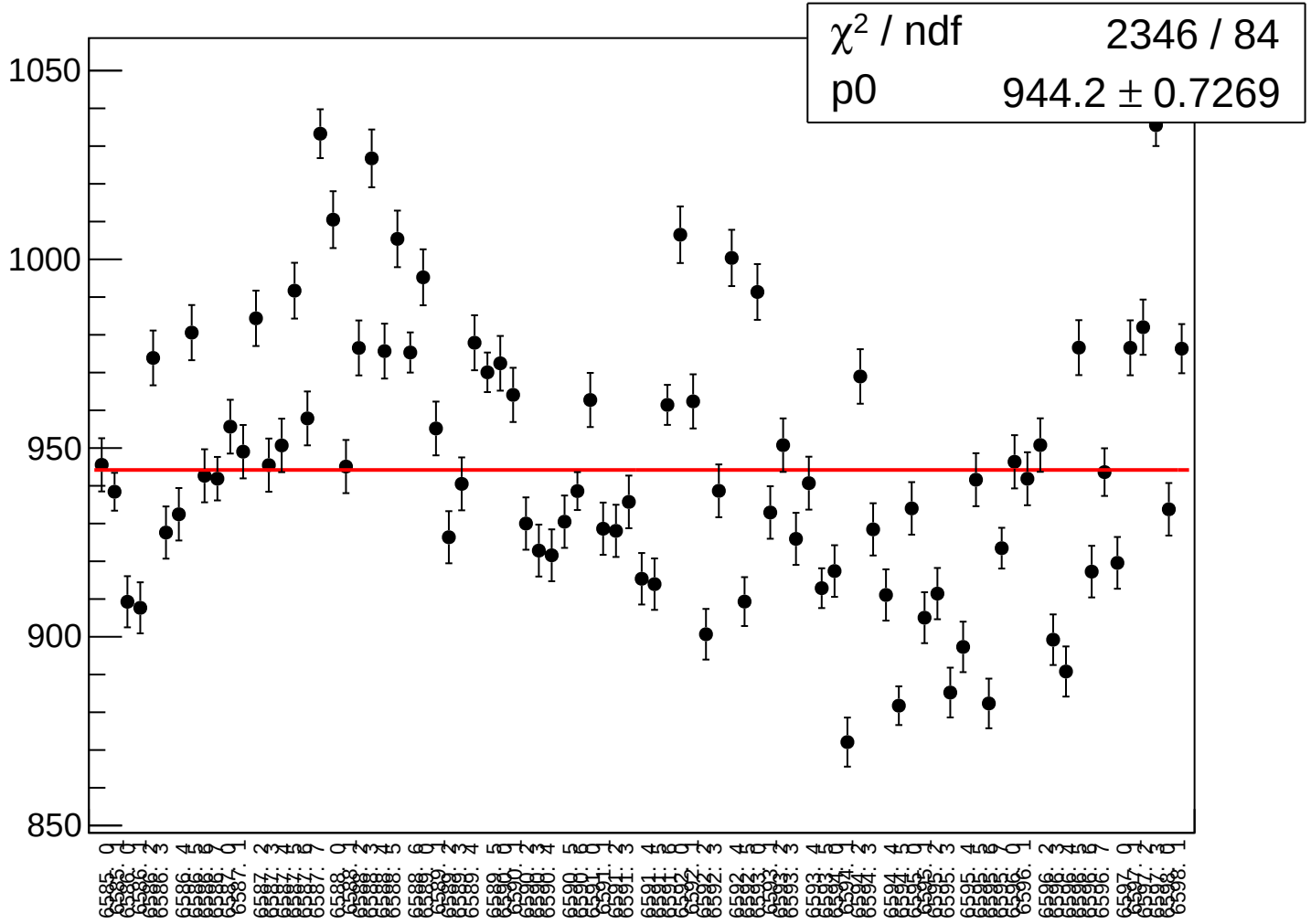

reg_asym_sam5_mean vs run
χ² / ndf 62.68 / 84
p0 −150.9 ± 152.2
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −3378
Std Dev 3443
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

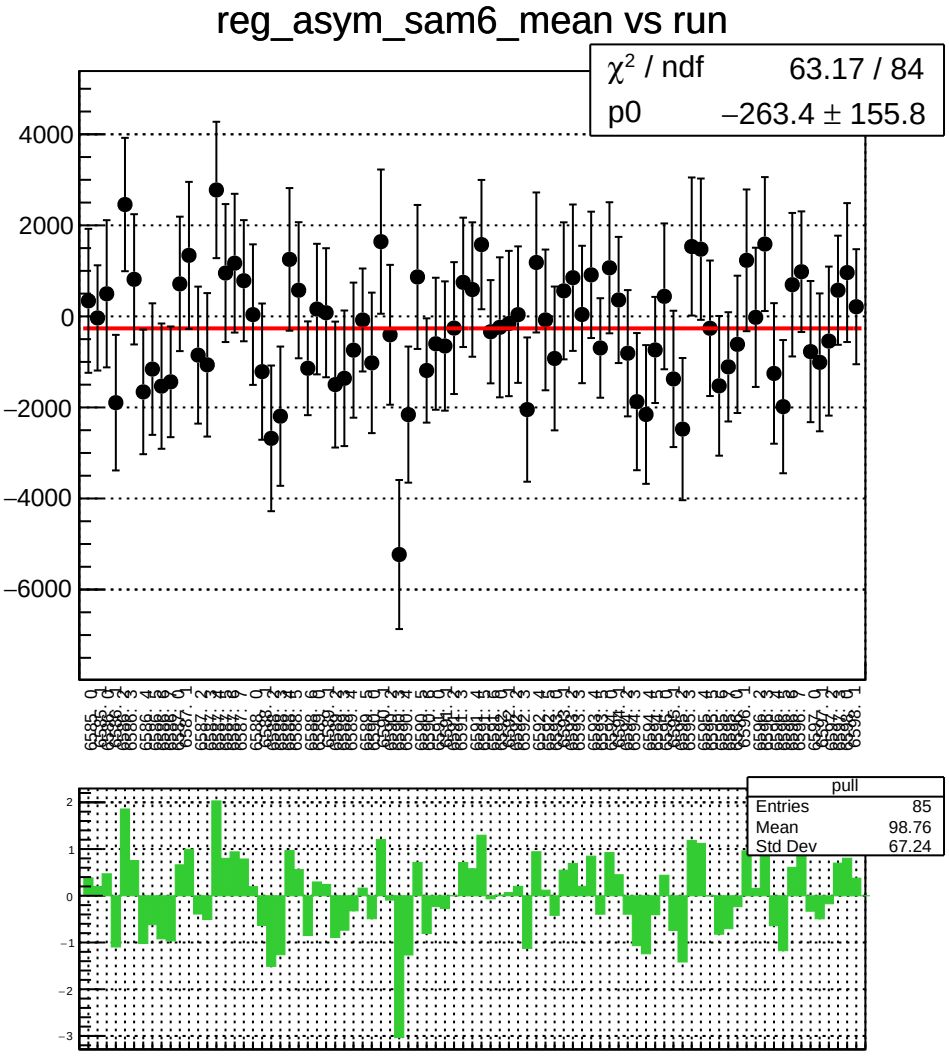

pull1D
Entries 85
Mean −0.0008056
Std Dev 0.8587
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

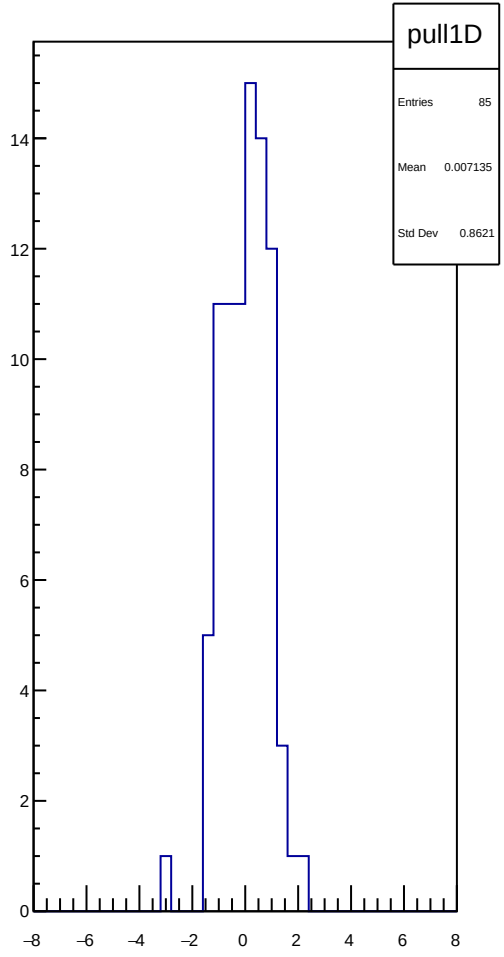

reg_asym_sam5_rms vs run
χ^2 / ndf 1206 / 84
p0 139.8 ± 0.1076
155
150
145
140
135
130


asym_sam5_correction_mean vs run
χ² / ndf 94.7 / 84
p0 −119.8 ± 1028
pull
Entries 85
Mean 234.2
Std Dev 195.6
pull1D
Entries 85
Mean −0.00938
Std Dev 1.056

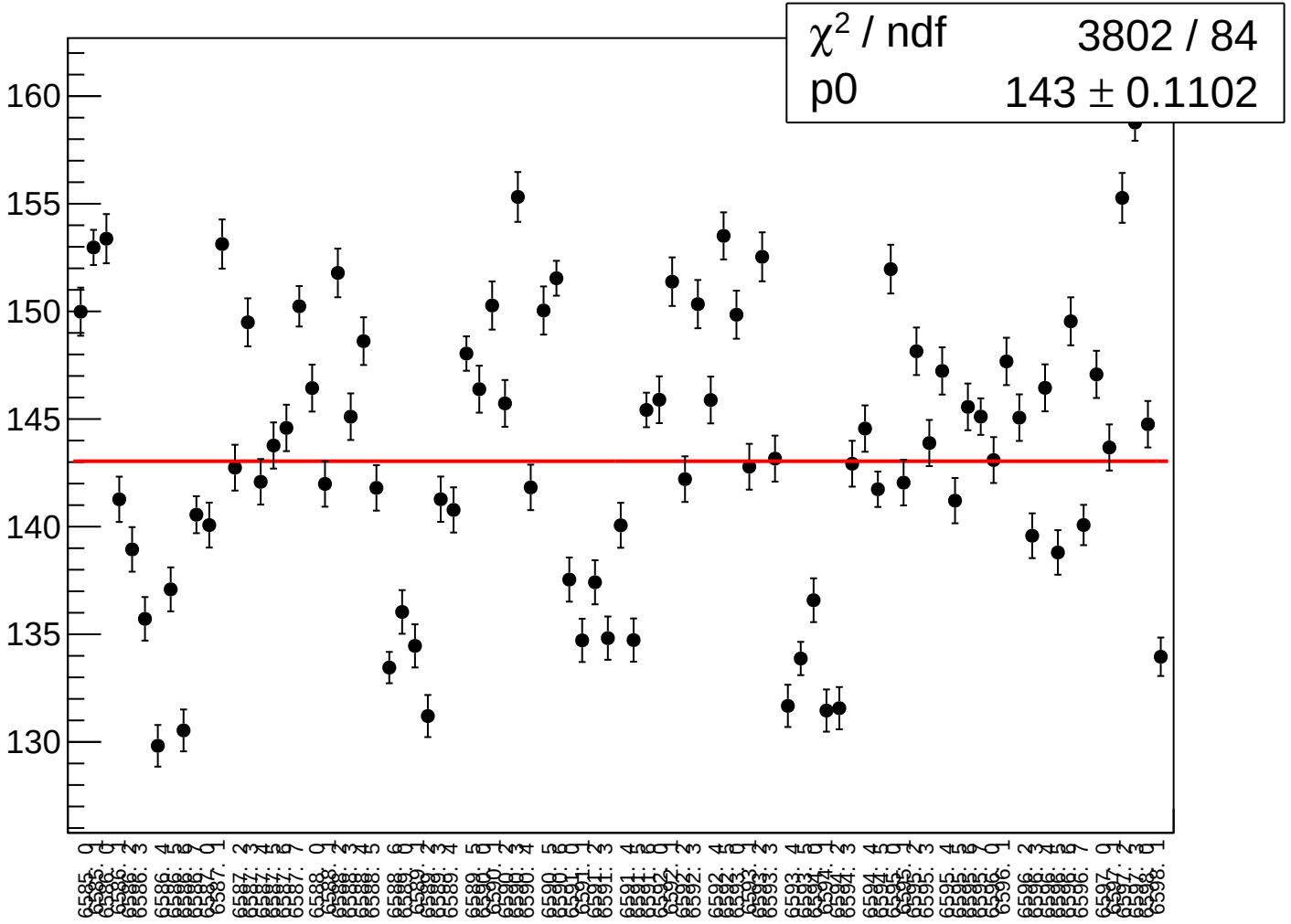
asym_sam5_correction_rms vs run

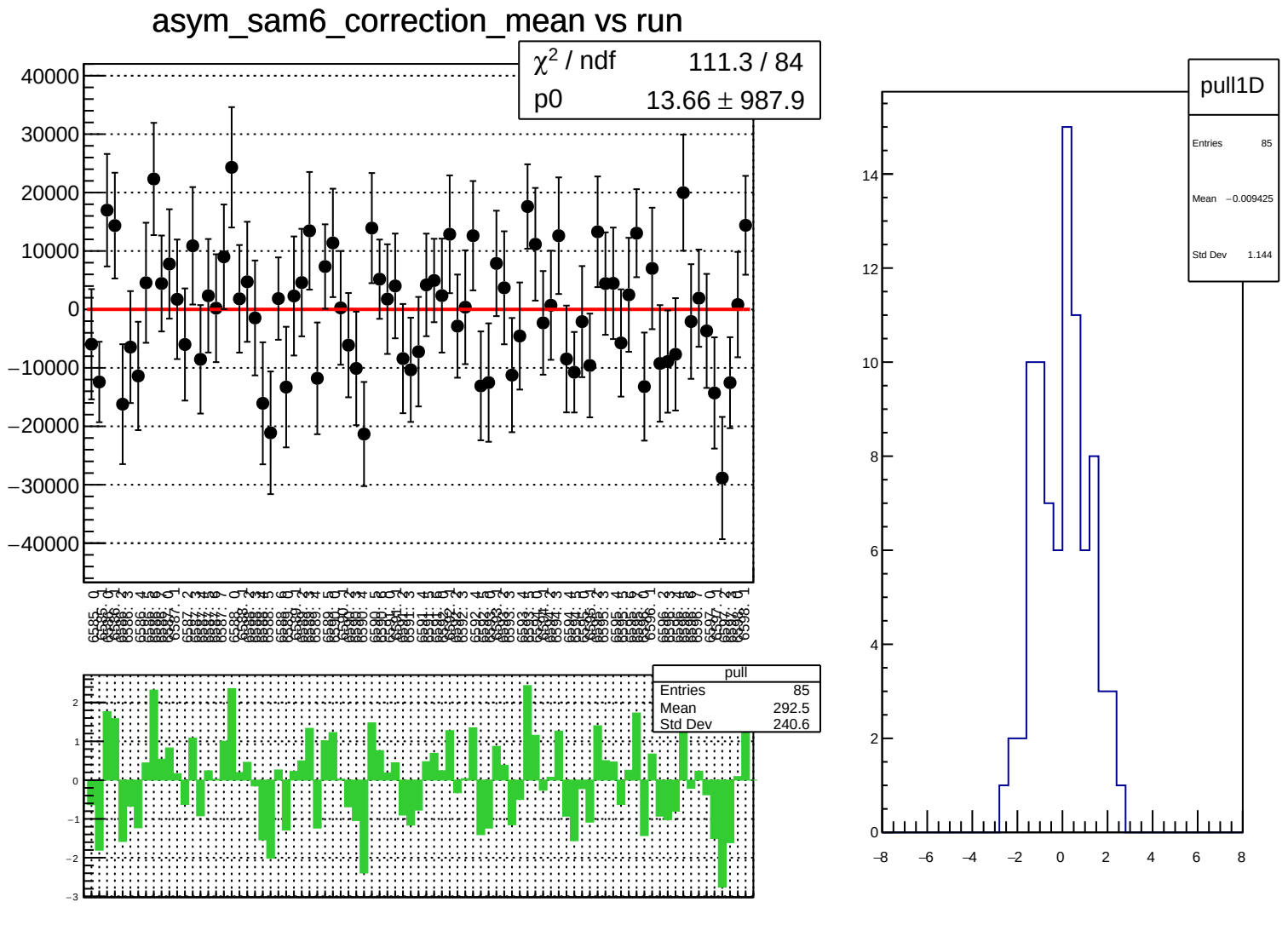



reg_asym_sam6_mean vs run
χ^2 / ndf 63.17 / 84
p0 −263.4 ± 155.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 98.76
Std Dev 67.24
2
1
0
−1
−2
−3

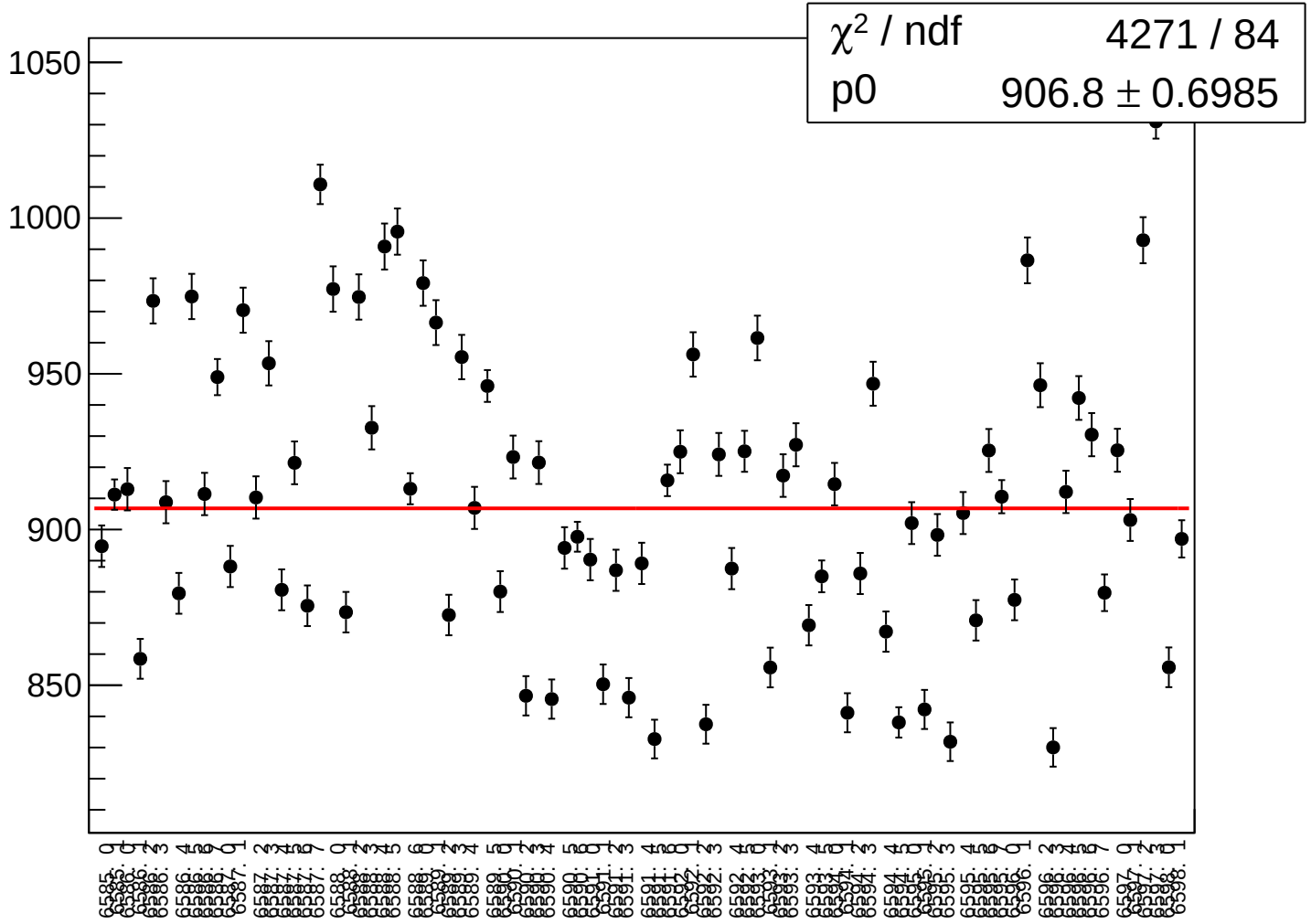

pull1D
Entries 85
Mean 0.007135
Std Dev 0.8621
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

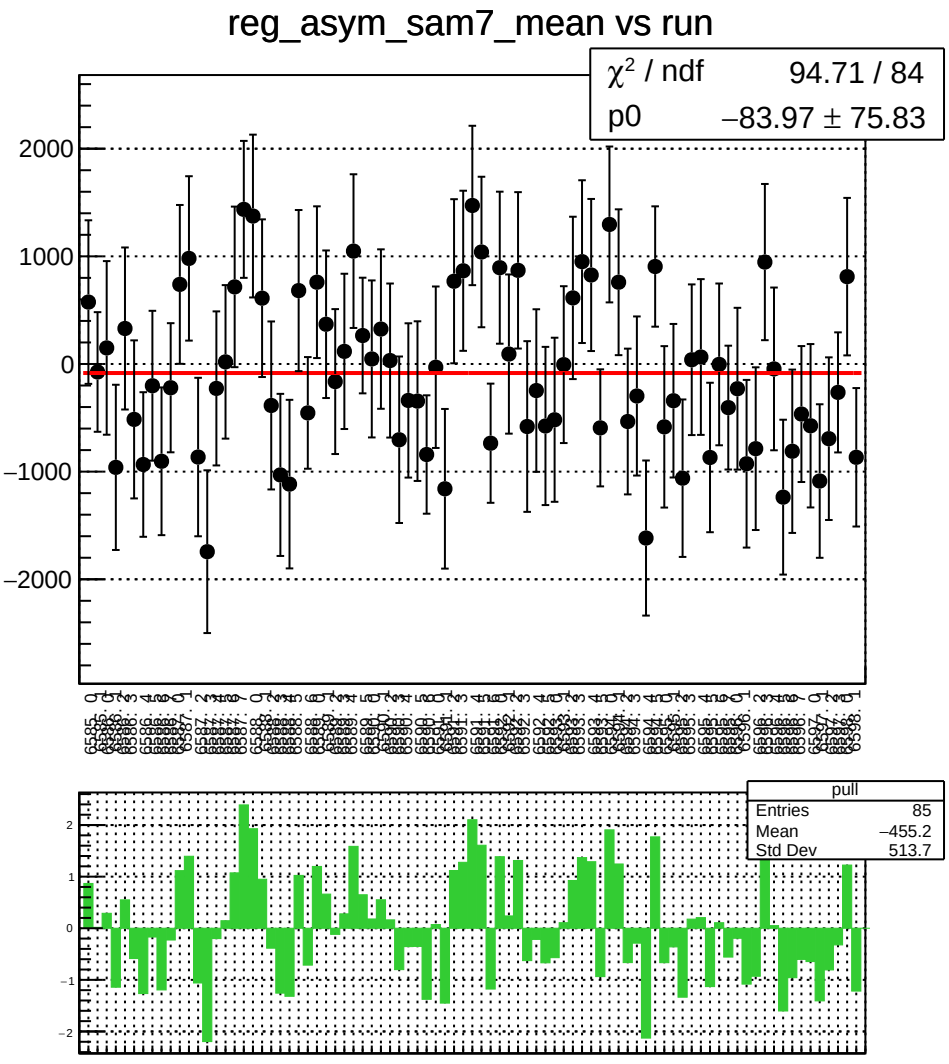
reg_asym_sam6_rms vs run

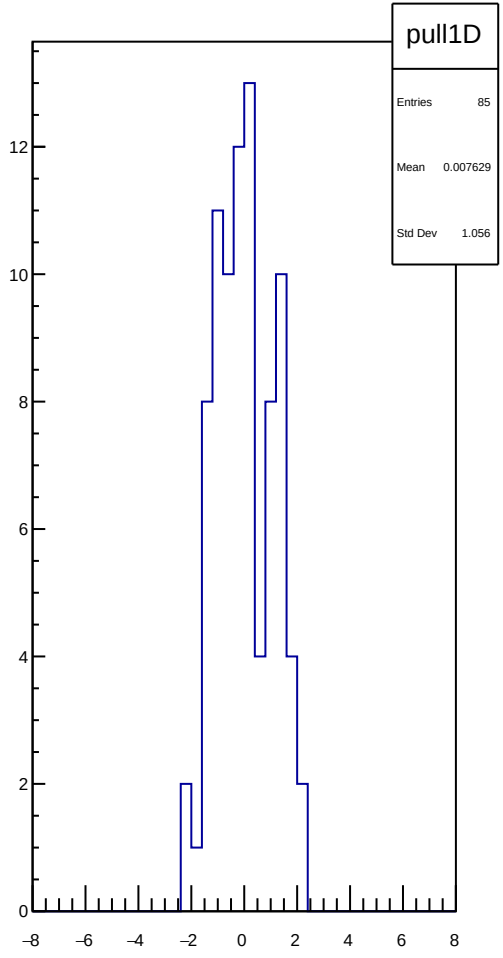



asym_sam6_correction_mean vs run
χ² / ndf 111.3 / 84
p0 13.66 ± 987.9
pull
Entries 85
Mean 292.5
Std Dev 240.6
pull1D
Entries 85
Mean −0.009425
Std Dev 1.144

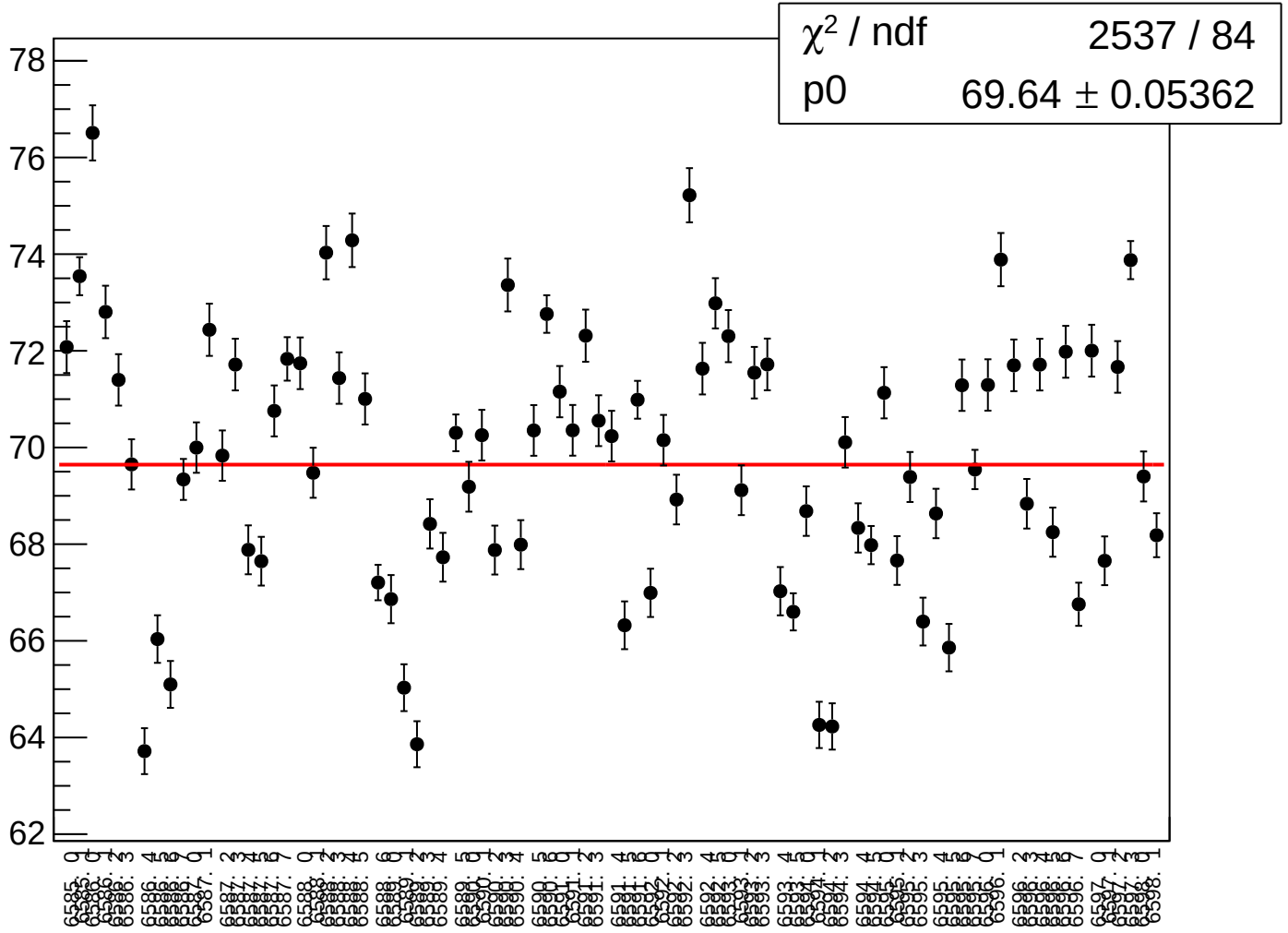
asym_sam6_correction_rms vs run

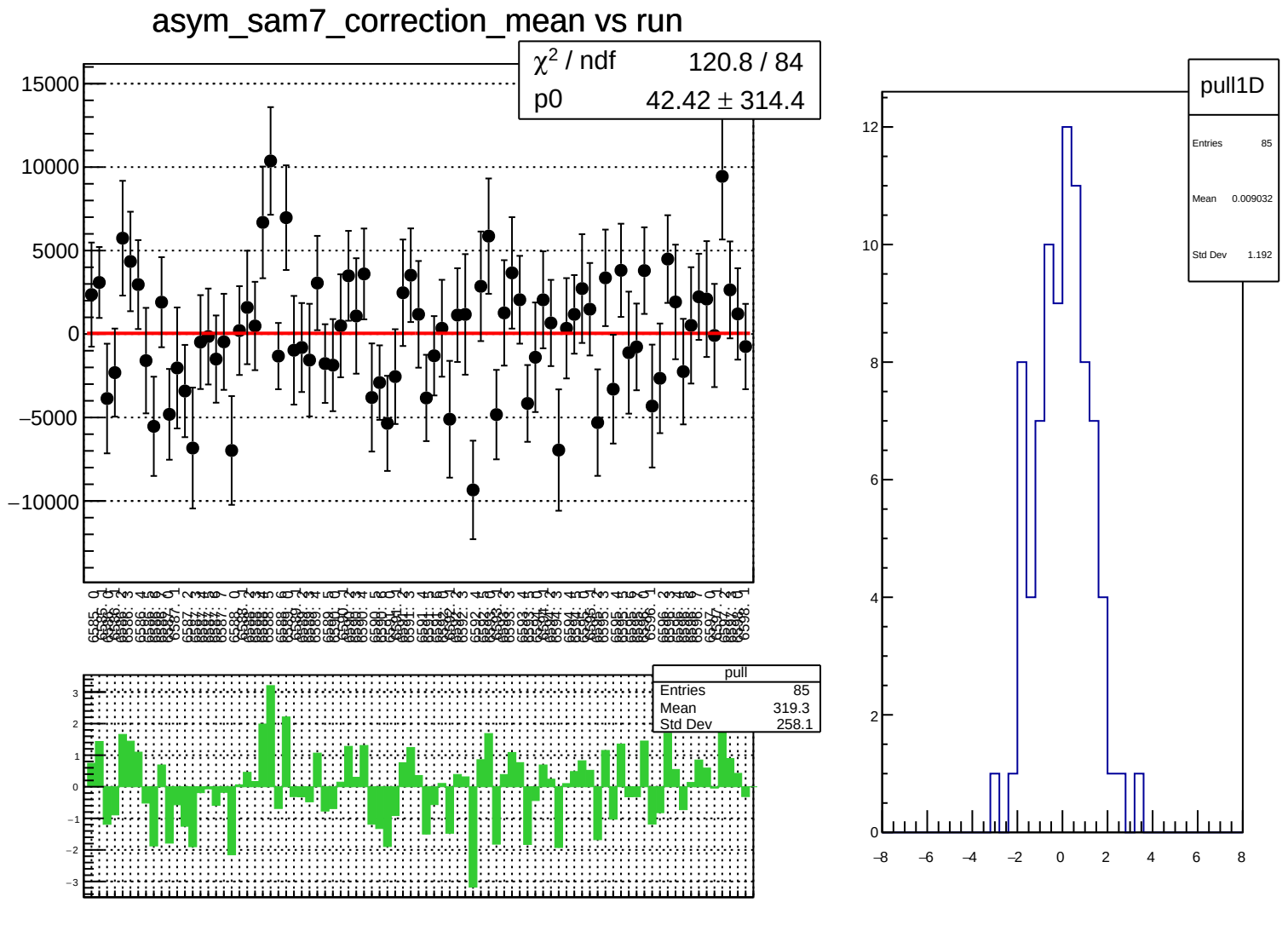



reg_asym_sam7_mean vs run
χ² / ndf 94.71 / 84
p0 −83.97 ± 75.83
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −455.2
Std Dev 513.7
2
1
0
−1
−2

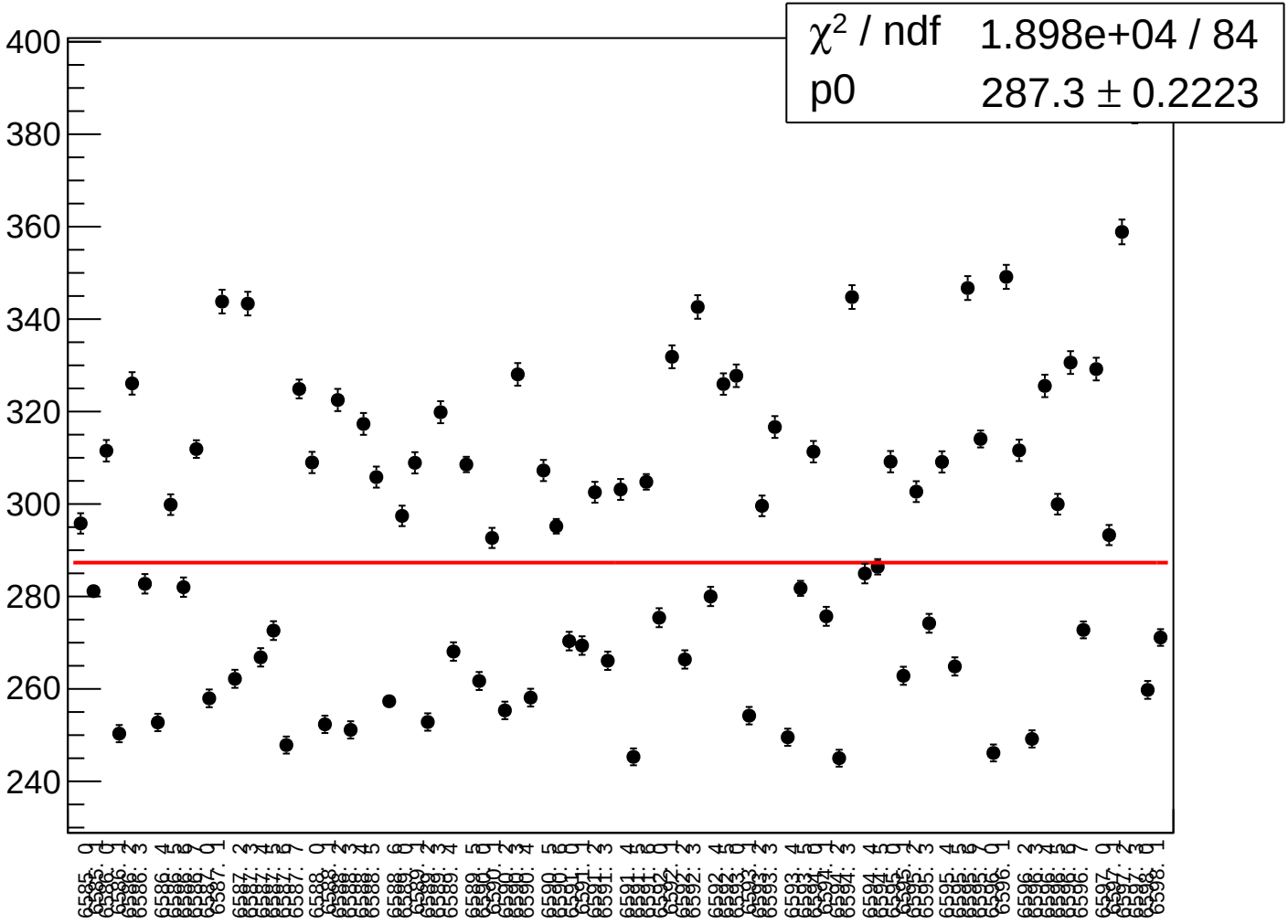

pull1D
Entries 85
Mean 0.007629
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

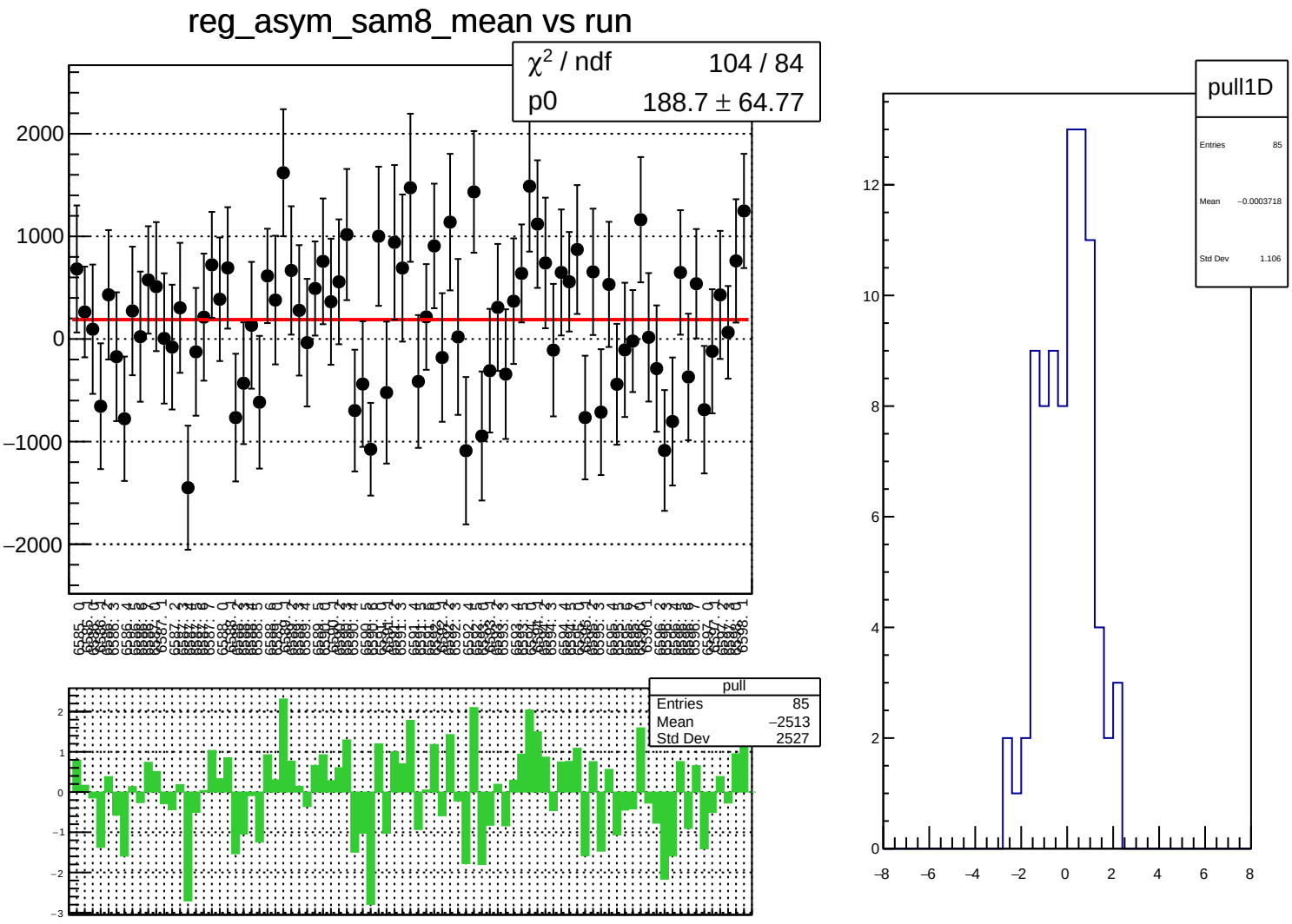
reg_asym_sam7_rms vs run

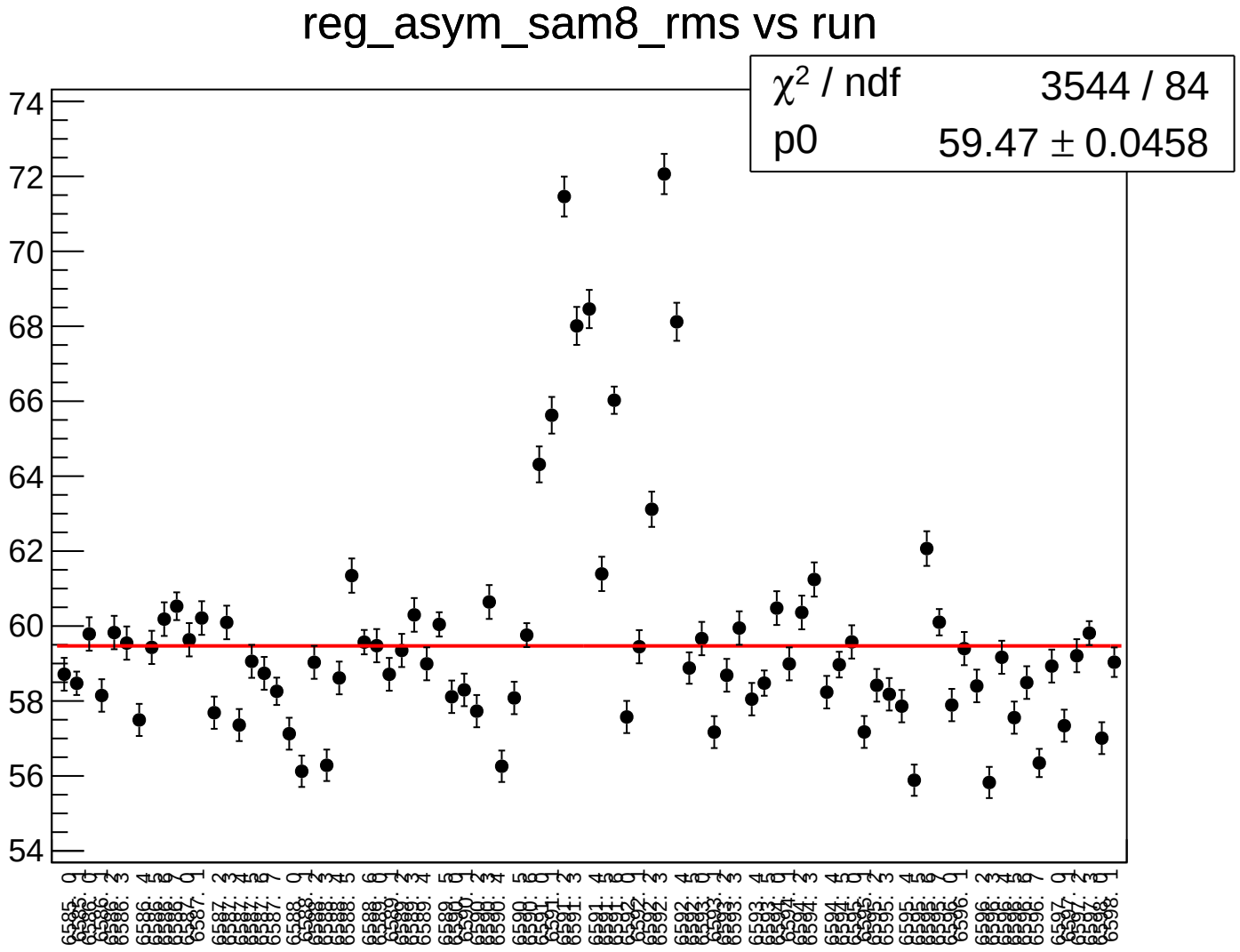


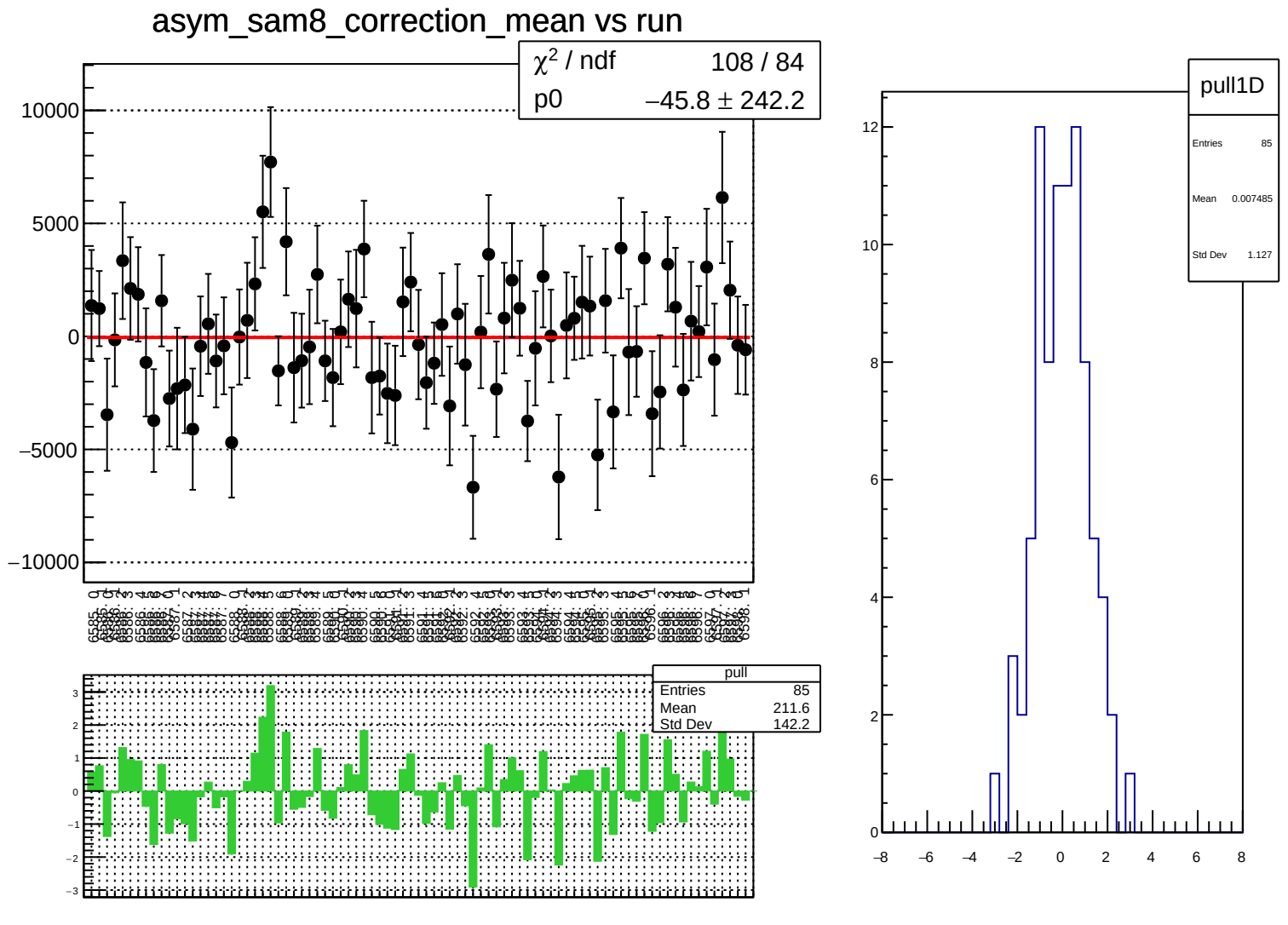

asym_sam7_correction_mean vs run
χ² / ndf 120.8 / 84
p0 42.42 ± 314.4
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 319.3
Std Dev 258.1
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.009032
Std Dev 1.192
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam7_correction_rms vs run

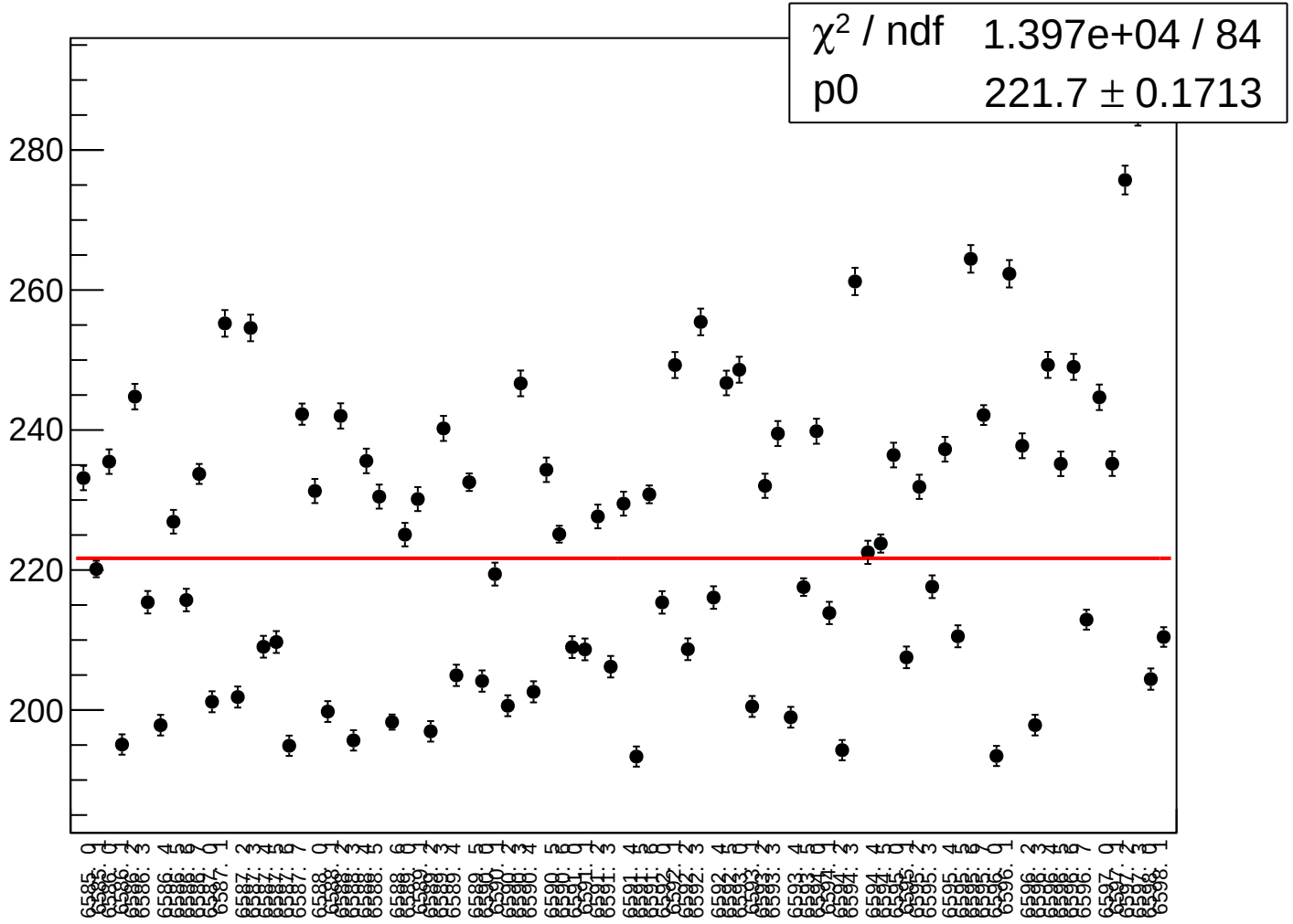


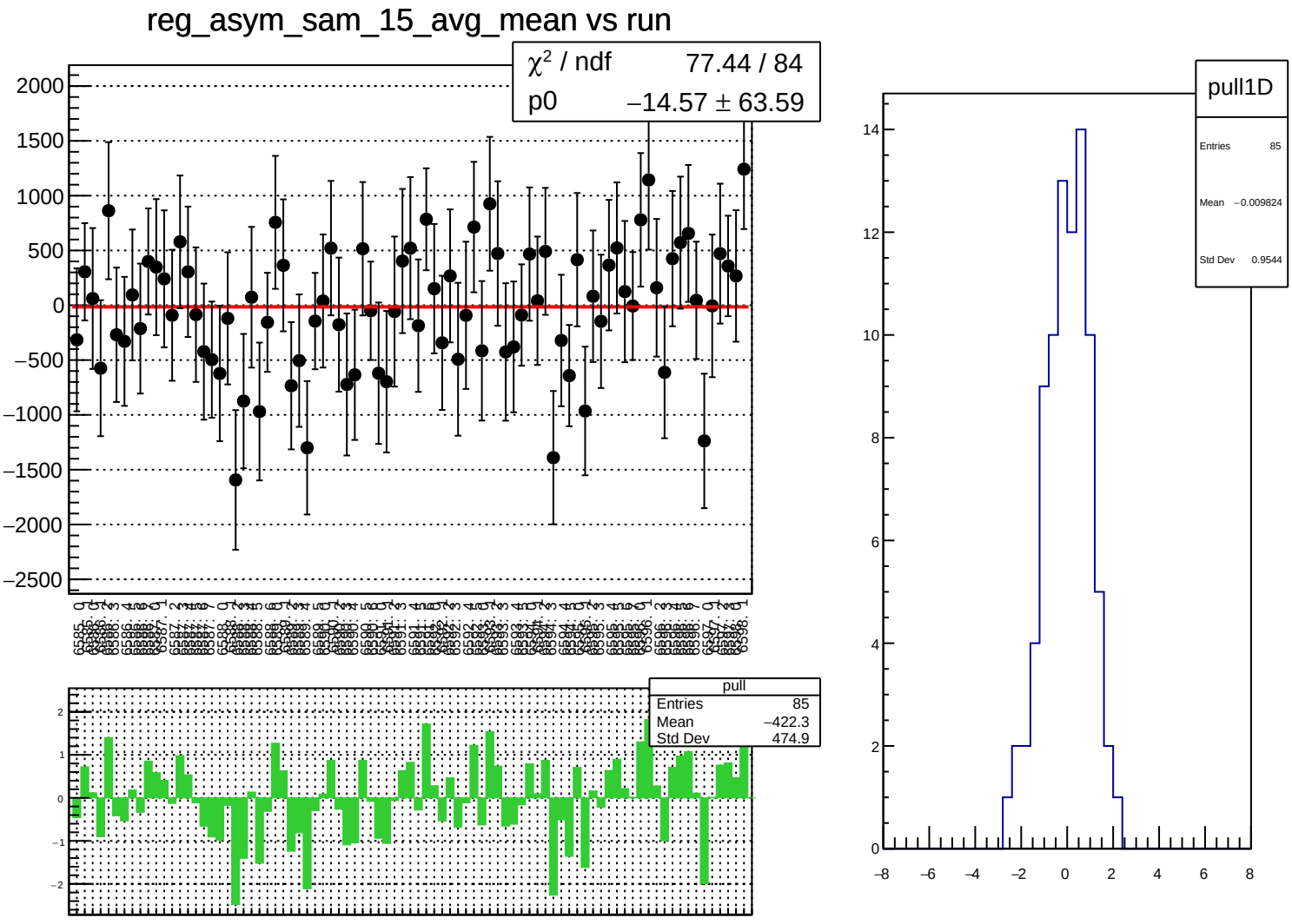

reg_asym_sam8_mean vs run
χ^2 / ndf 104 / 84
p0 188.7 ± 64.77
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −2513
Std Dev 2527
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.0003718
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_rms vs run
χ^2 / ndf 3544 / 84
p0 59.47 ± 0.0458
74
72
70
68
66
64
62
60
58
56
54

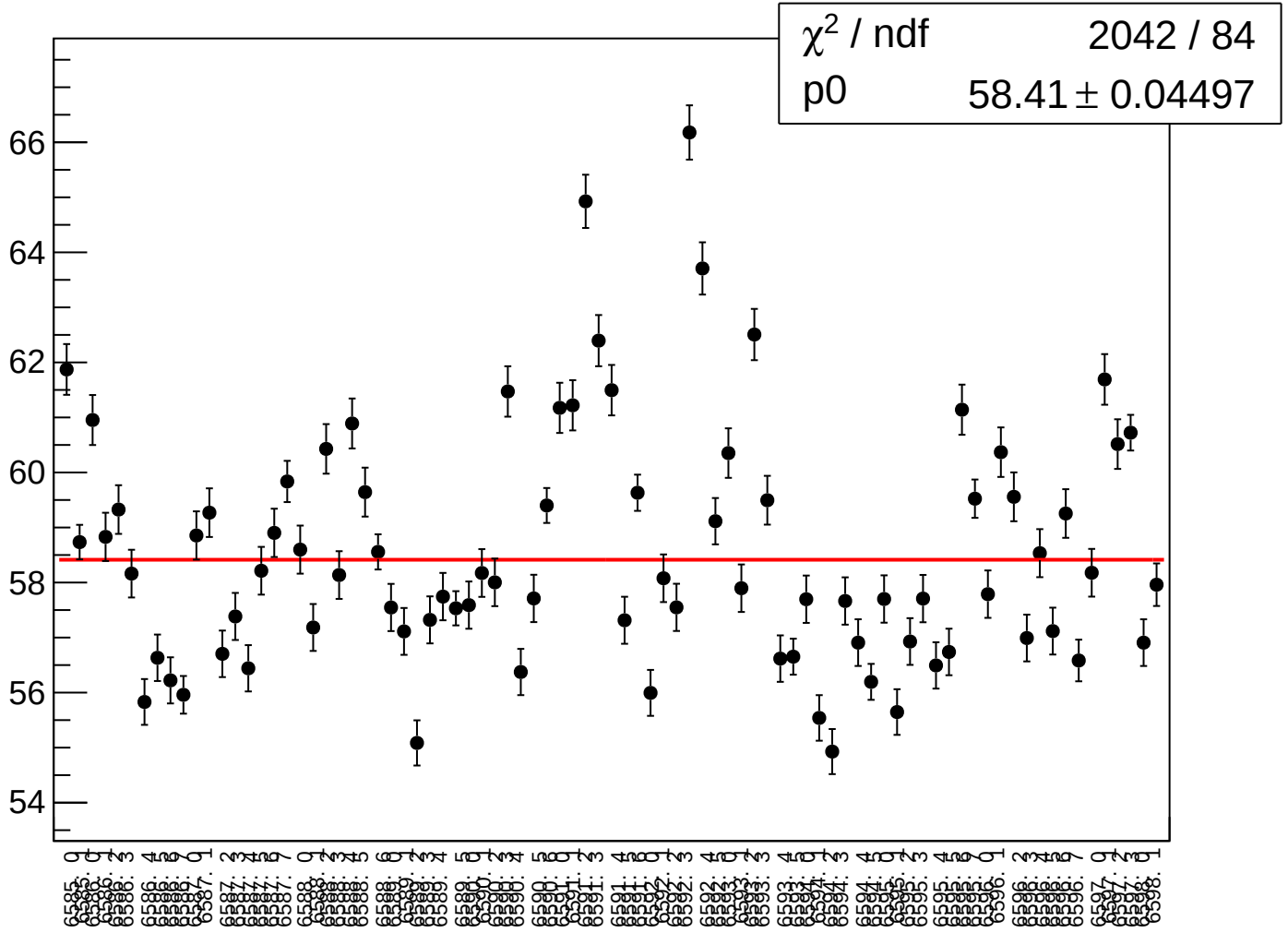

asym_sam8_correction_mean vs run
χ² / ndf 108 / 84
p0 −45.8 ± 242.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 211.6
Std Dev 142.2
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.007485
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

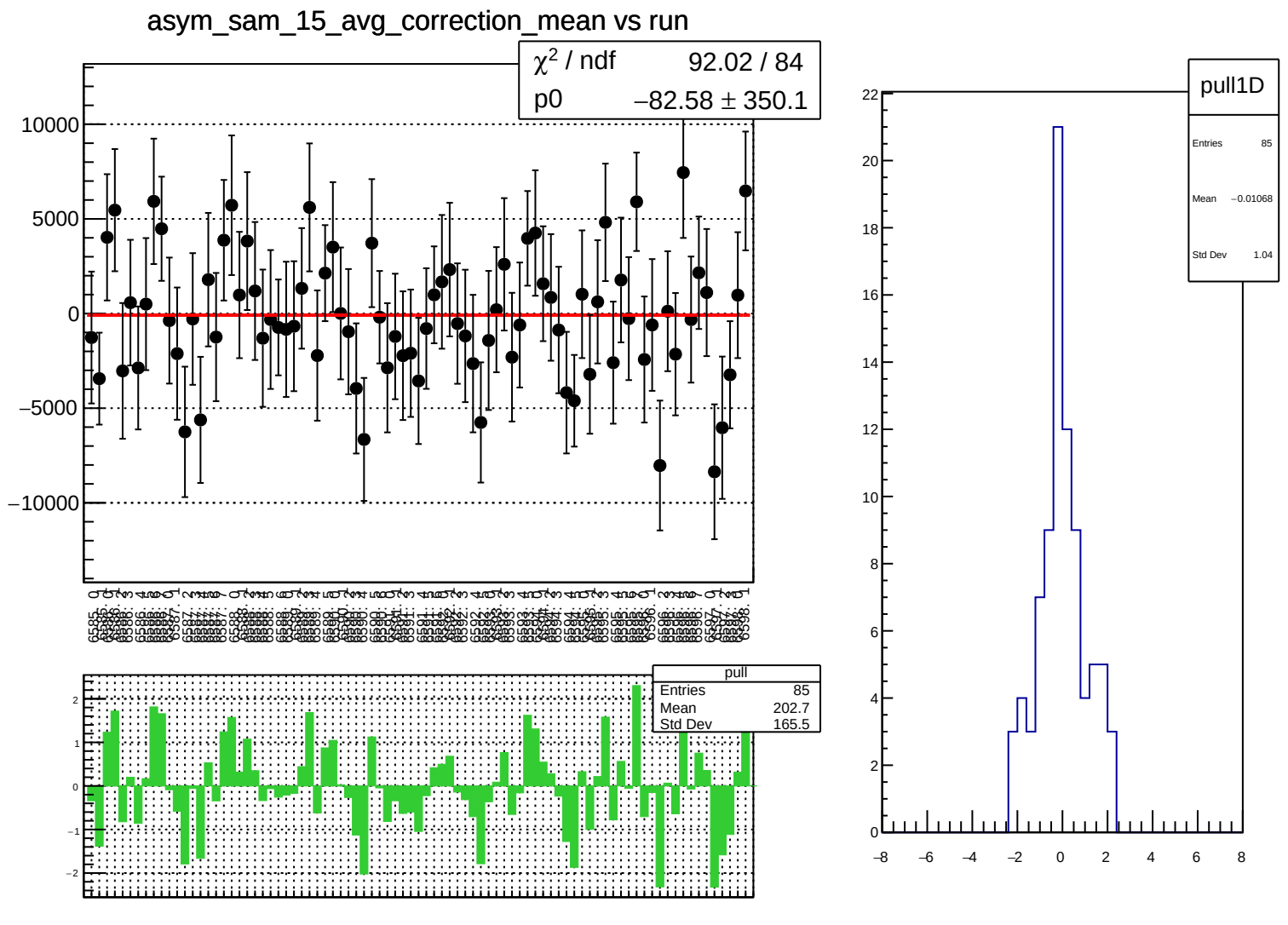
asym_sam8_correction_rms vs run

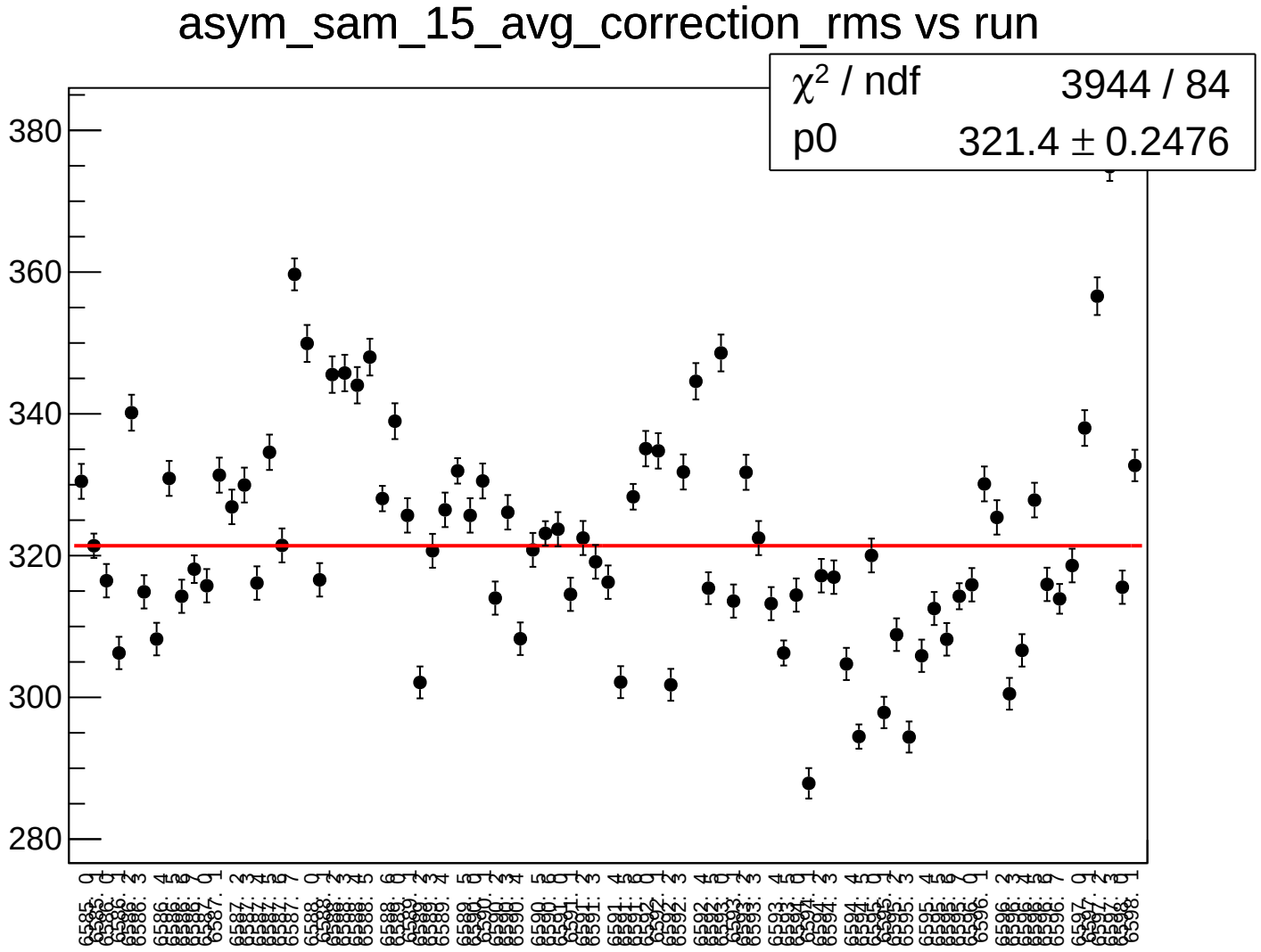


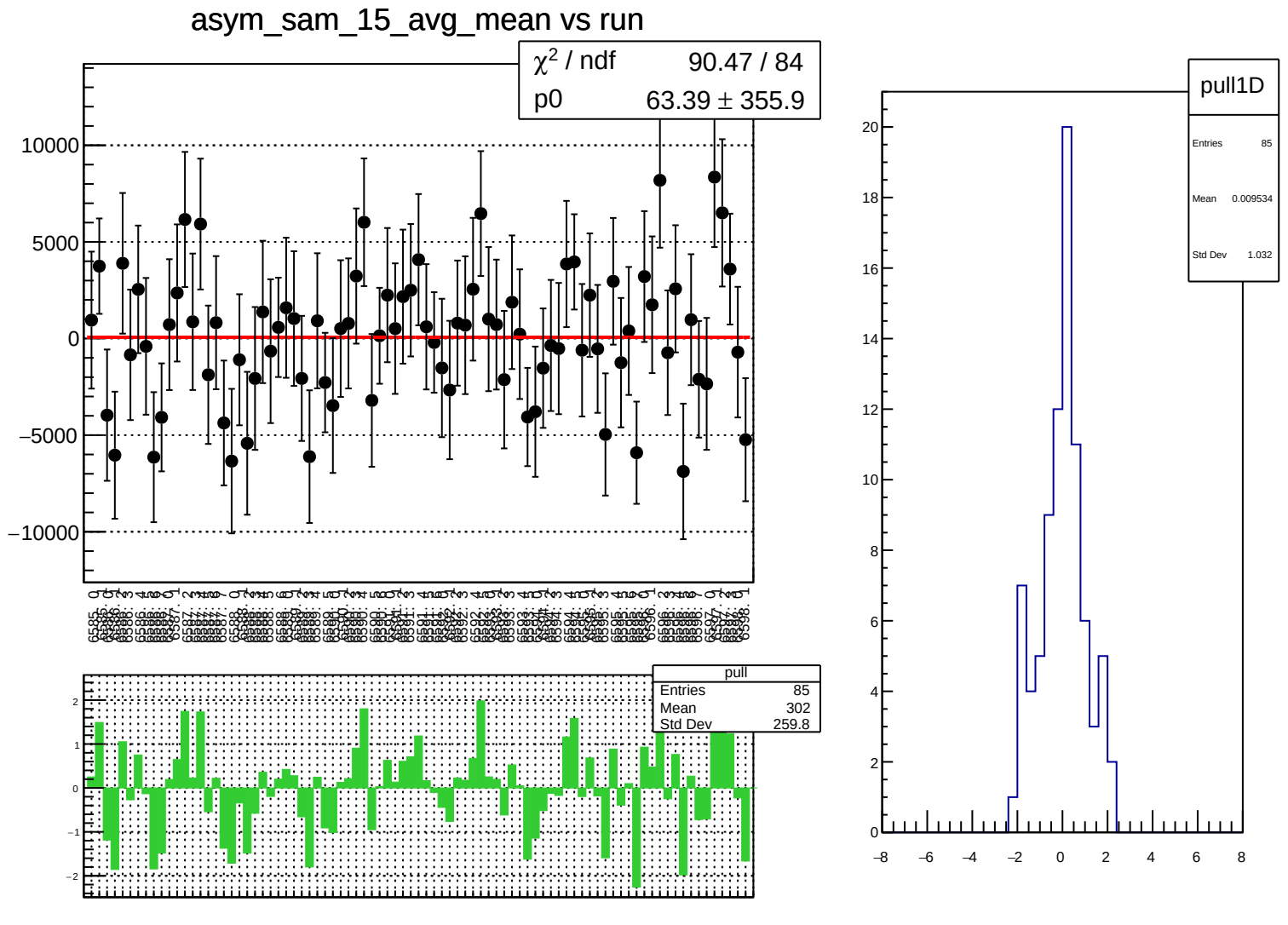

reg_asym_sam_15_avg_mean vs run
χ² / ndf 77.44 / 84
p0 −14.57 ± 63.59
pull
Entries 85
Mean −422.3
Std Dev 474.9
pull1D
Entries 85
Mean −0.009824
Std Dev 0.9544

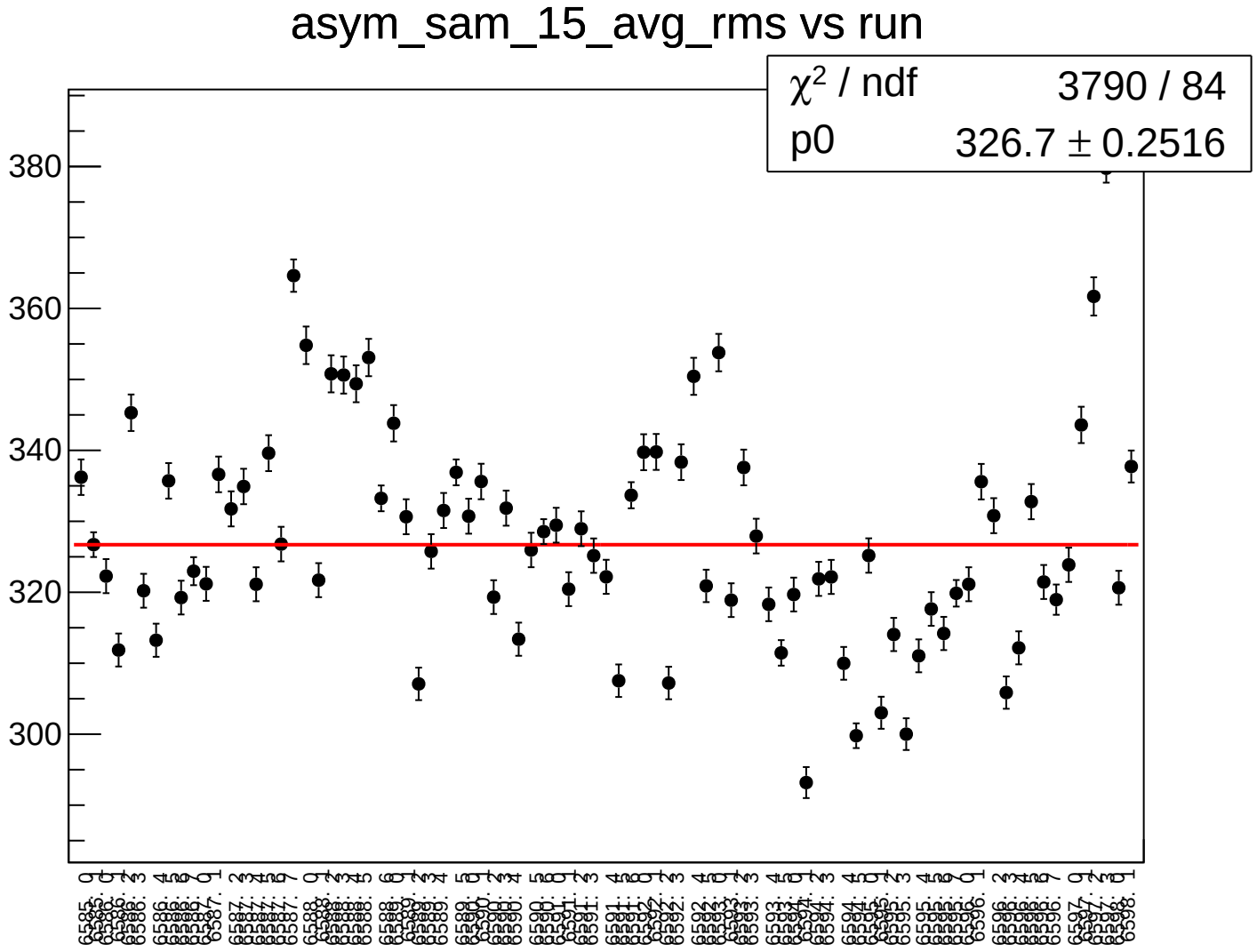
reg_asym_sam_15_avg_rms vs run

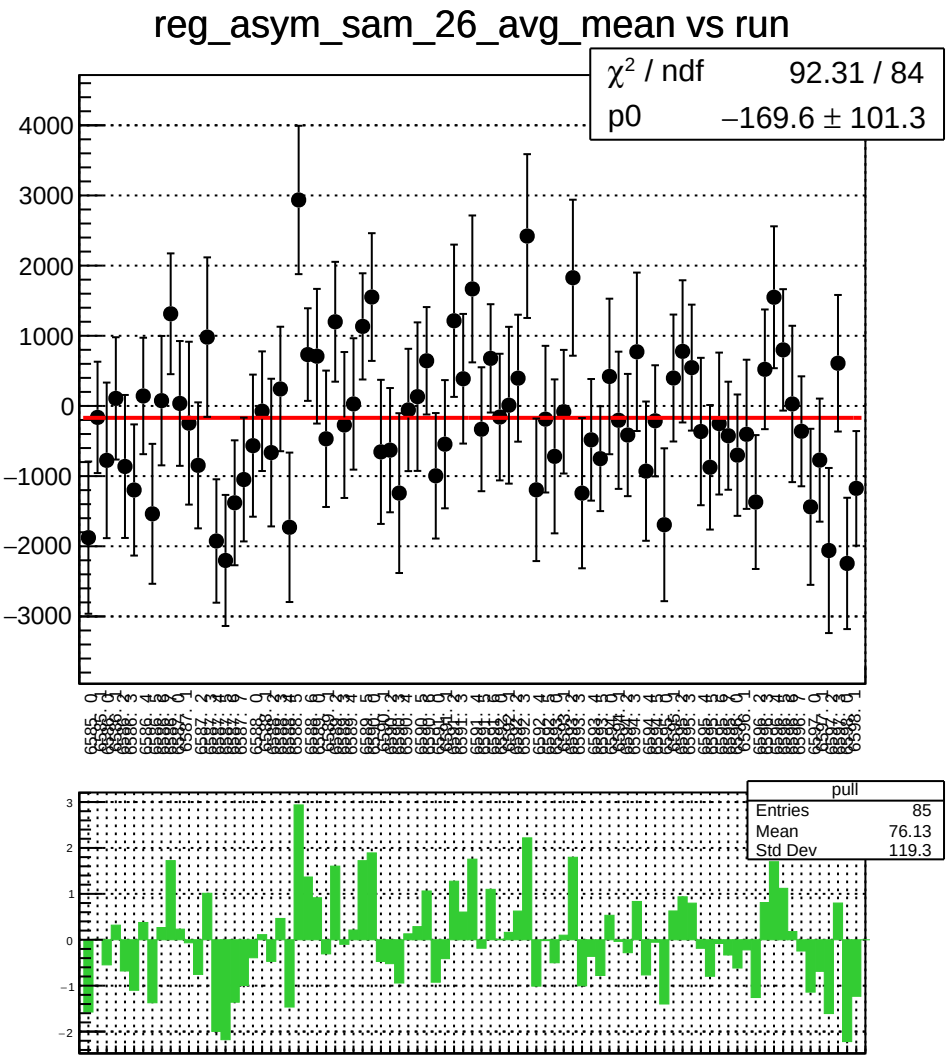


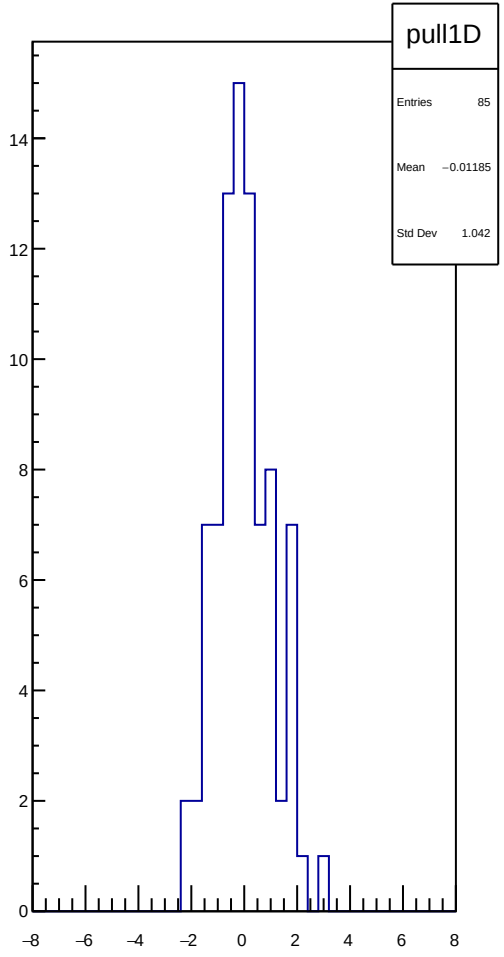

asym_sam_15_avg_correction_mean vs run
χ² / ndf 92.02 / 84
p0 −82.58 ± 350.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 202.7
Std Dev 165.5
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01068
Std Dev 1.04
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 3944 / 84
p0 321.4 ± 0.2476
380
360
340
320
300
280

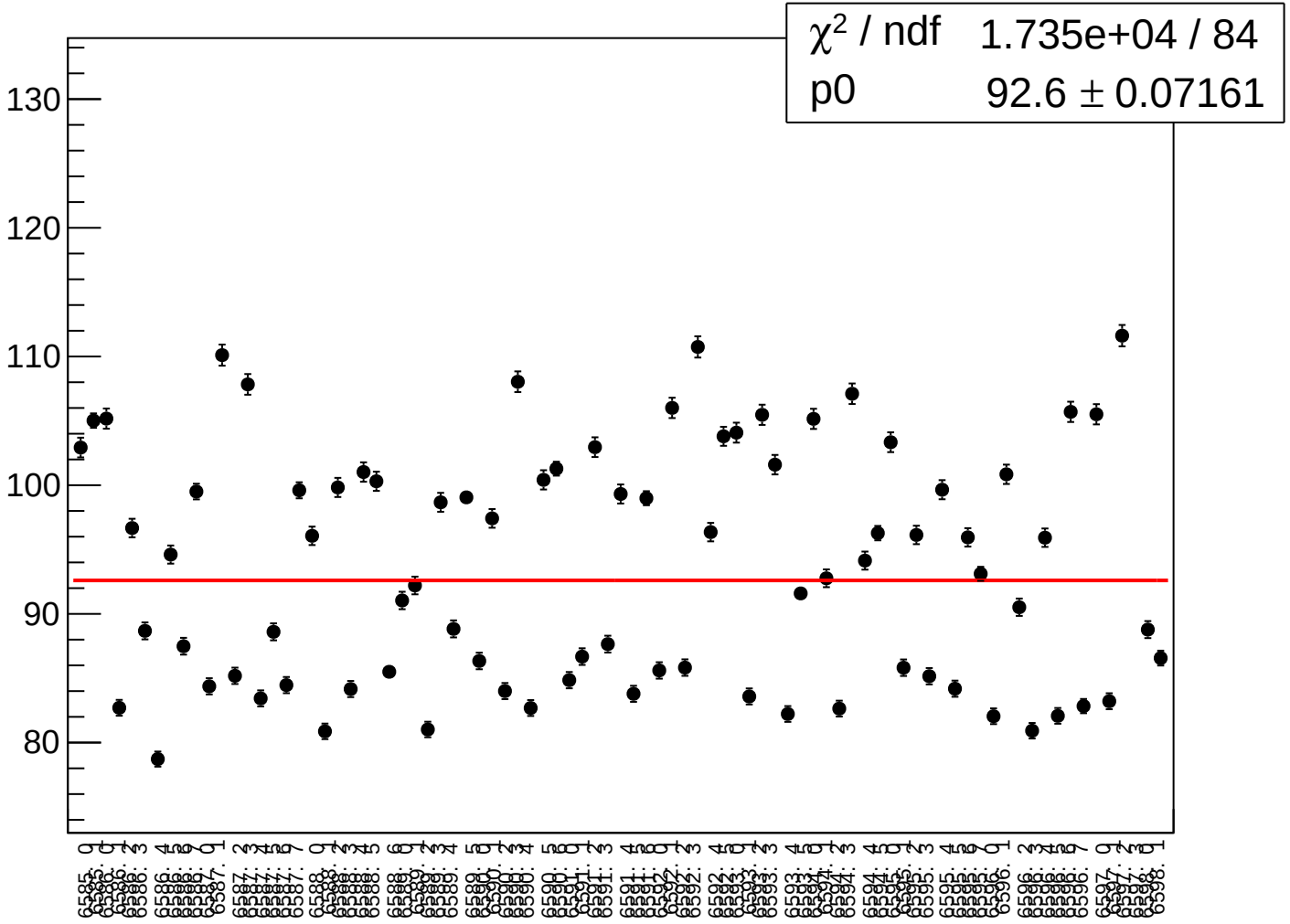

asym_sam_15_avg_mean vs run
χ² / ndf 90.47 / 84
p0 63.39 ± 355.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 302
Std Dev 259.8
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.009534
Std Dev 1.032
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

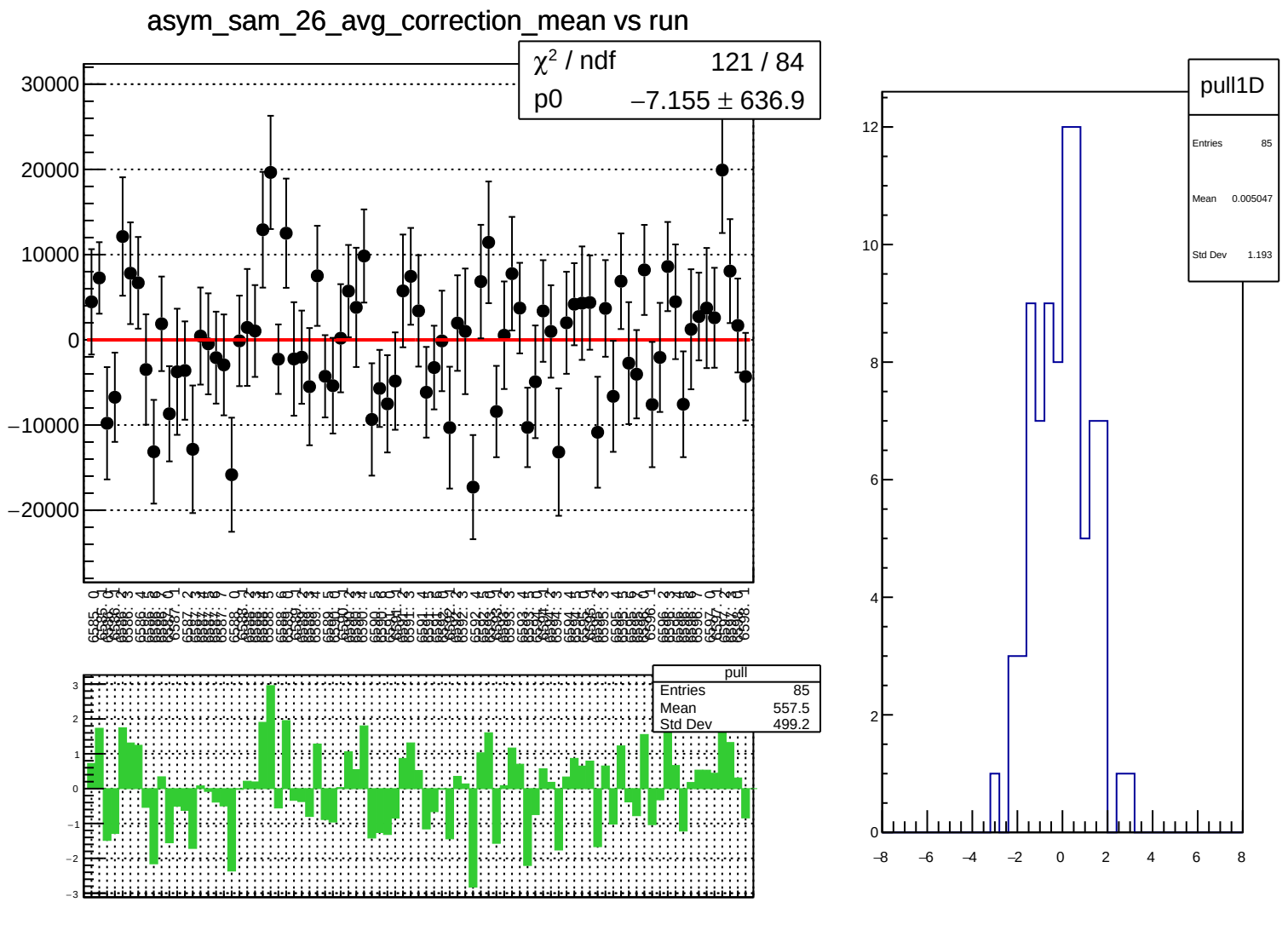

asym_sam_15_avg_rms vs run
χ² / ndf 3790 / 84
p0 326.7 ± 0.2516
380
360
340
320
300

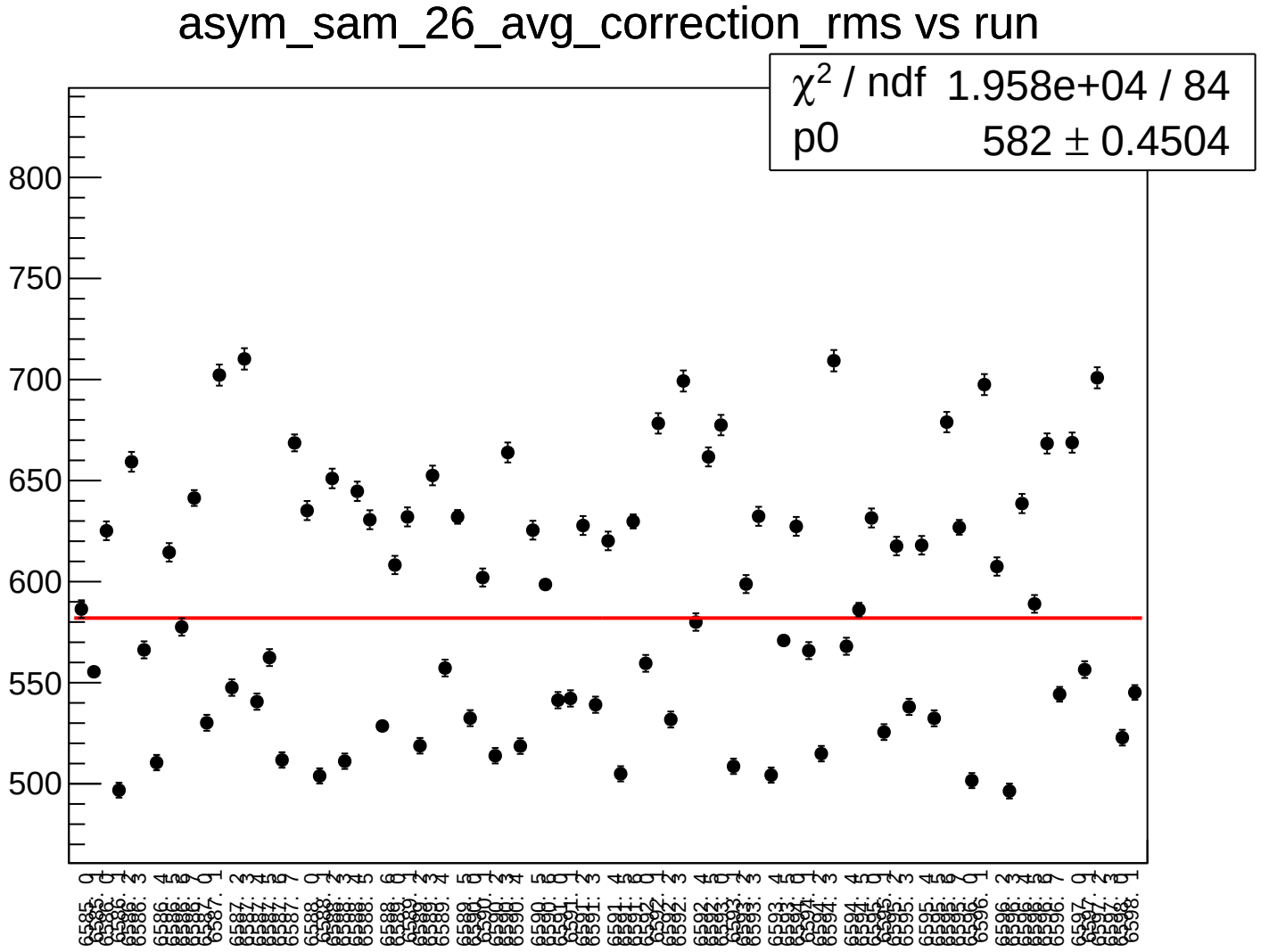

reg_asym_sam_26_avg_mean vs run
χ² / ndf 92.31 / 84
p0 −169.6 ± 101.3
pull
Entries 85
Mean 76.13
Std Dev 119.3

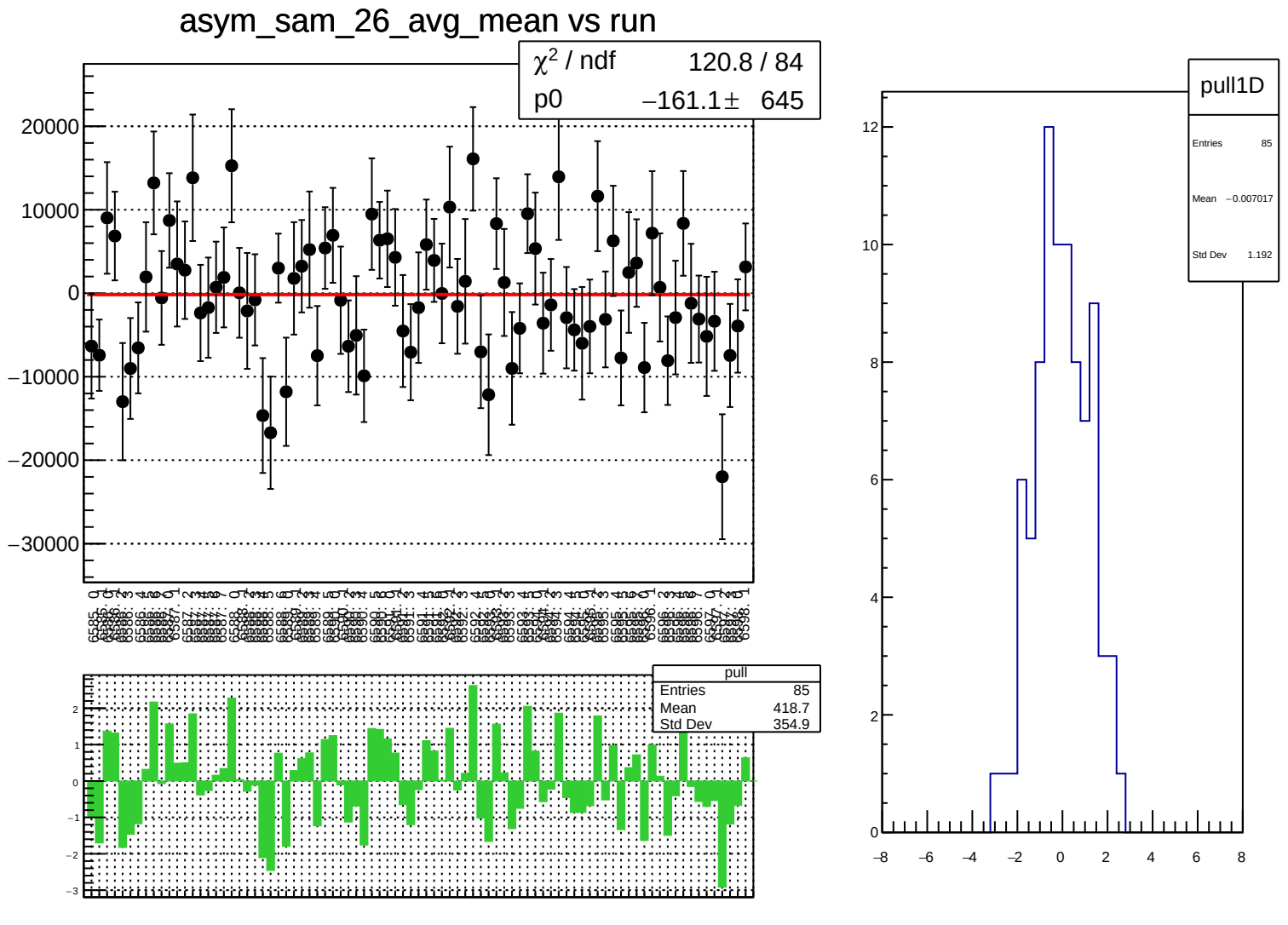

pull1D
Entries 85
Mean −0.01185
Std Dev 1.042

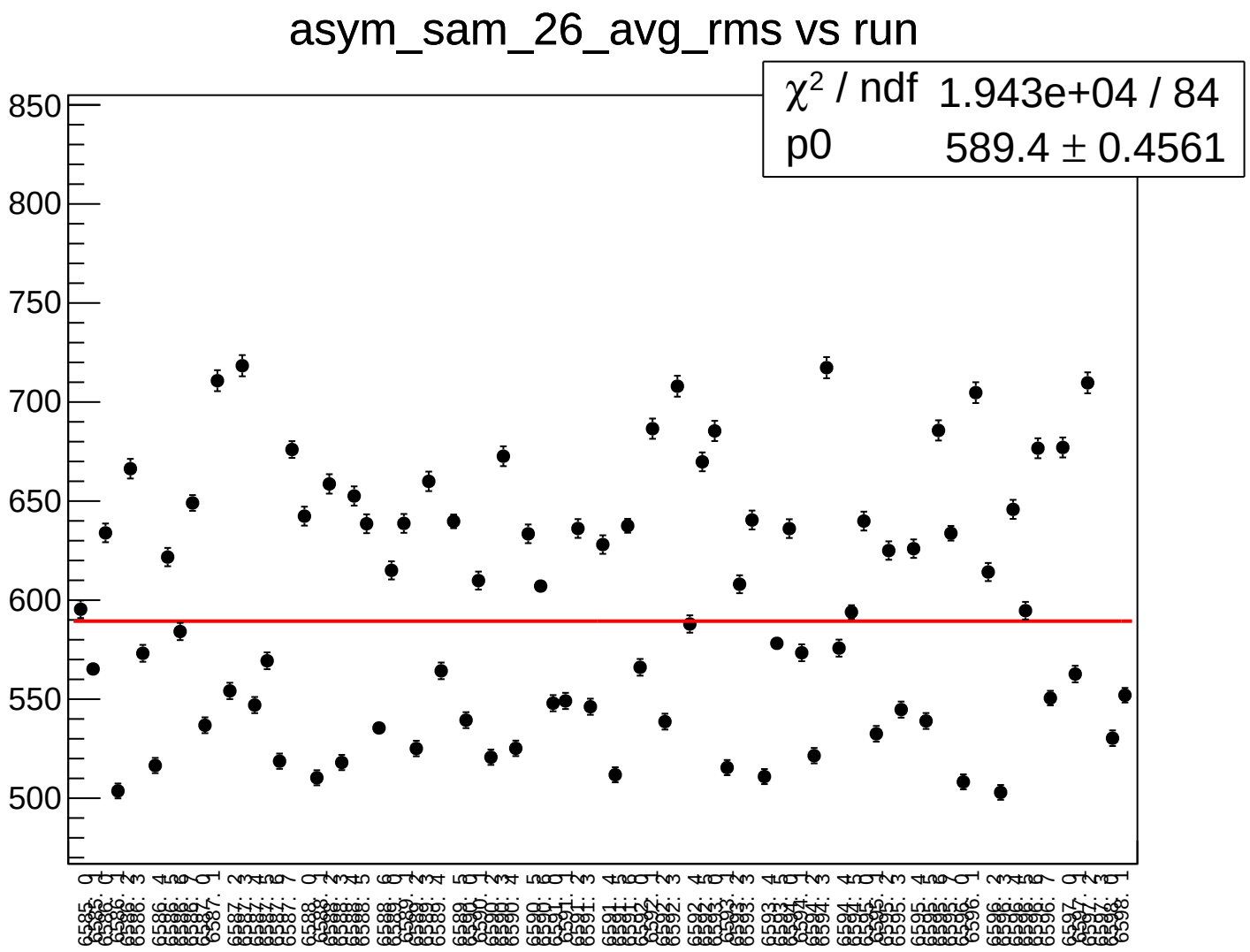
reg_asym_sam_26_avg_rms vs run

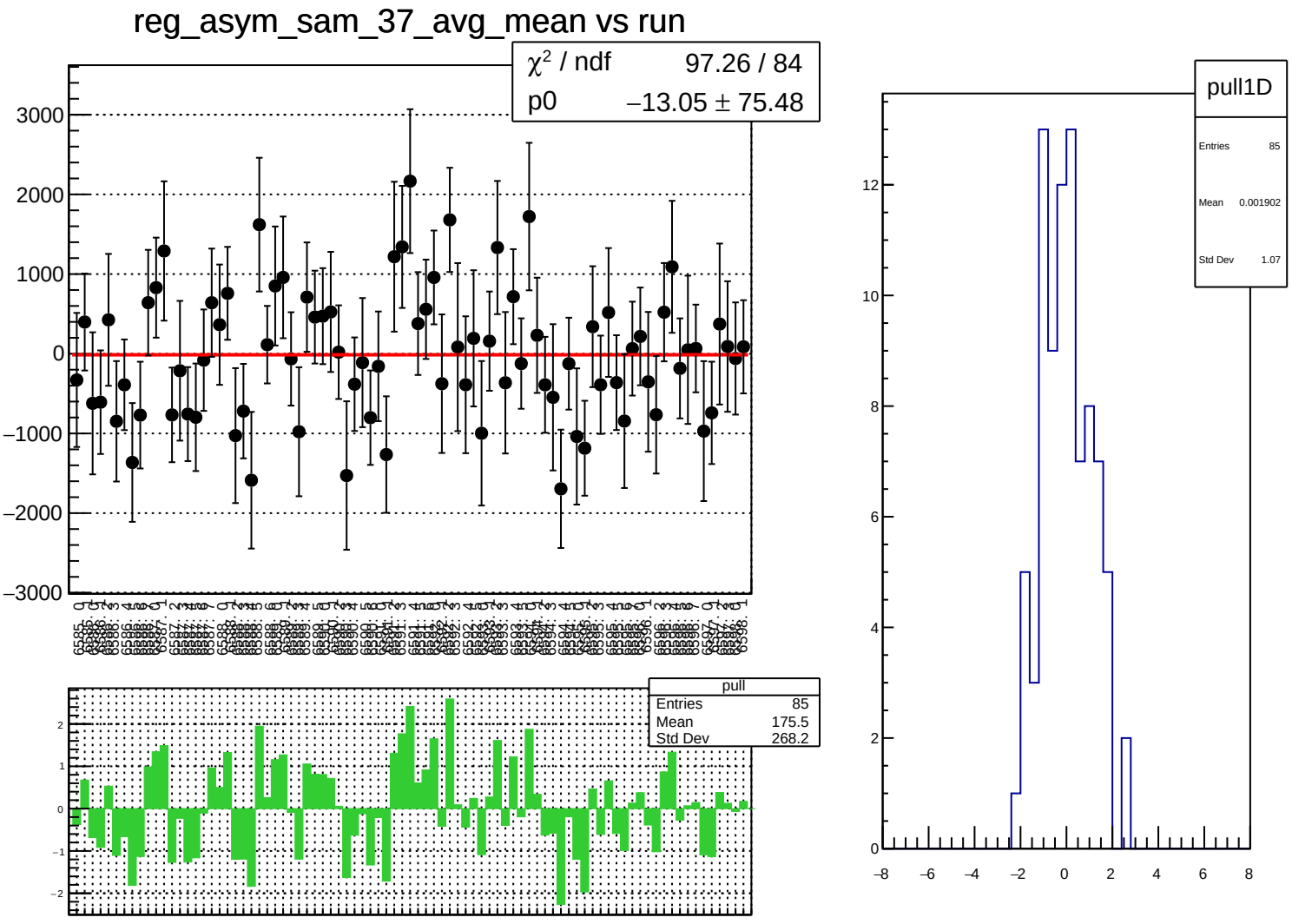



asym_sam_26_avg_correction_mean vs run
χ² / ndf 121 / 84
p0 −7.155 ± 636.9
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 557.5
Std Dev 499.2
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.005047
Std Dev 1.193
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

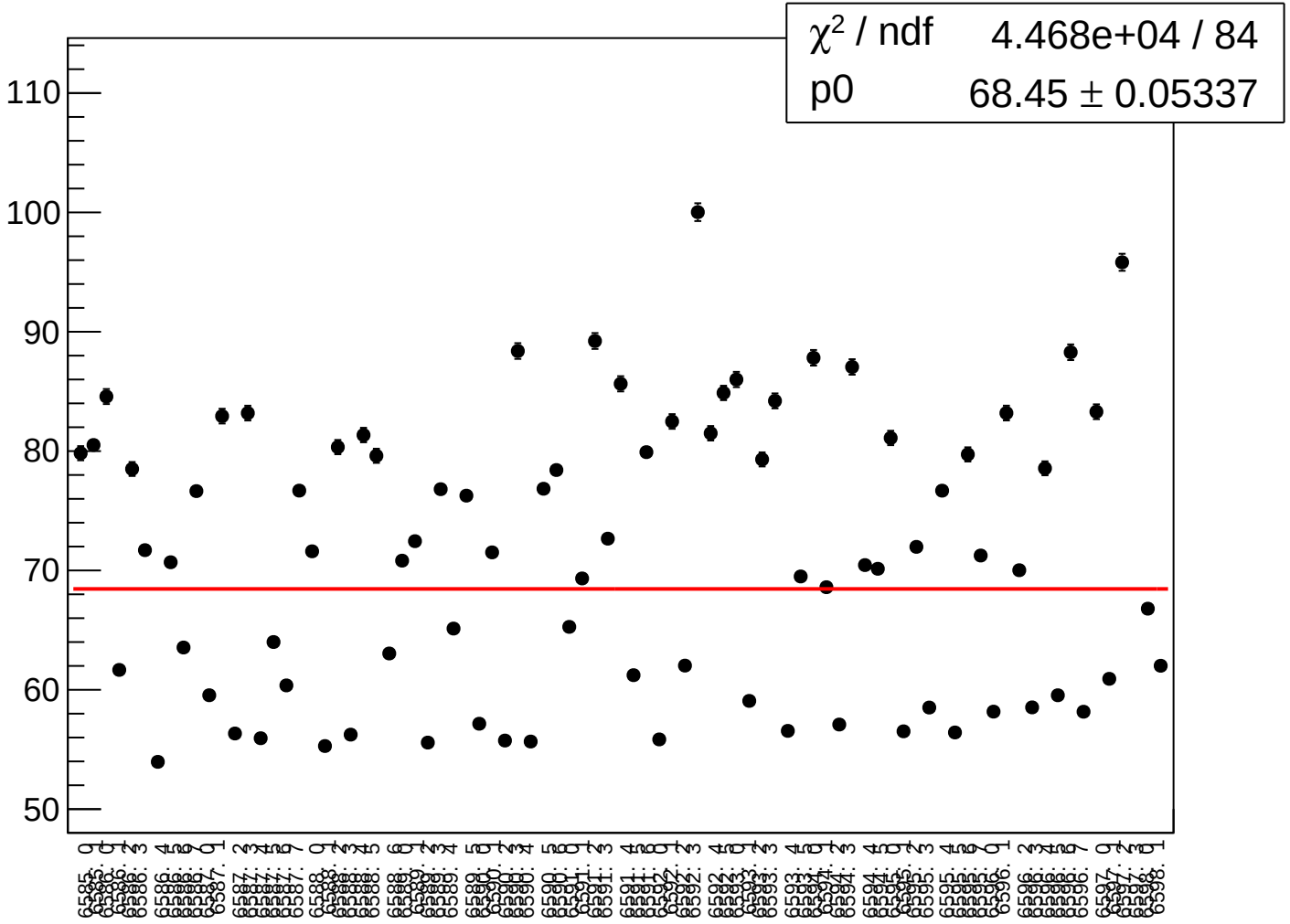

asym_sam_26_avg_correction_rms vs run
χ^2 / ndf 1.958e+04 / 84
p0 582 ± 0.4504
800
750
700
650
600
550
500

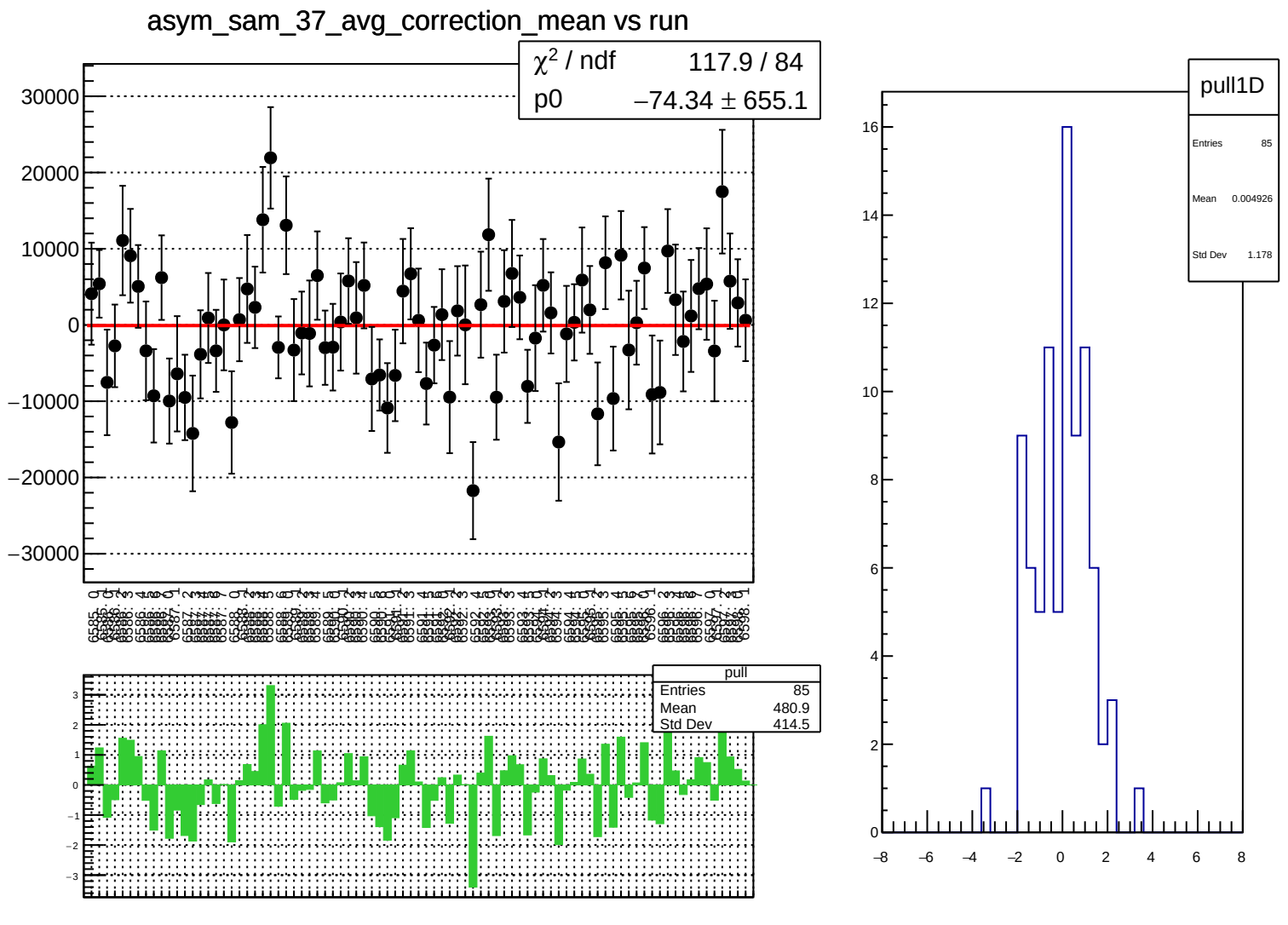

asym_sam_26_avg_mean vs run
χ² / ndf 120.8 / 84
p0 −161.1 ± 645
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 418.7
Std Dev 354.9
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.007017
Std Dev 1.192
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

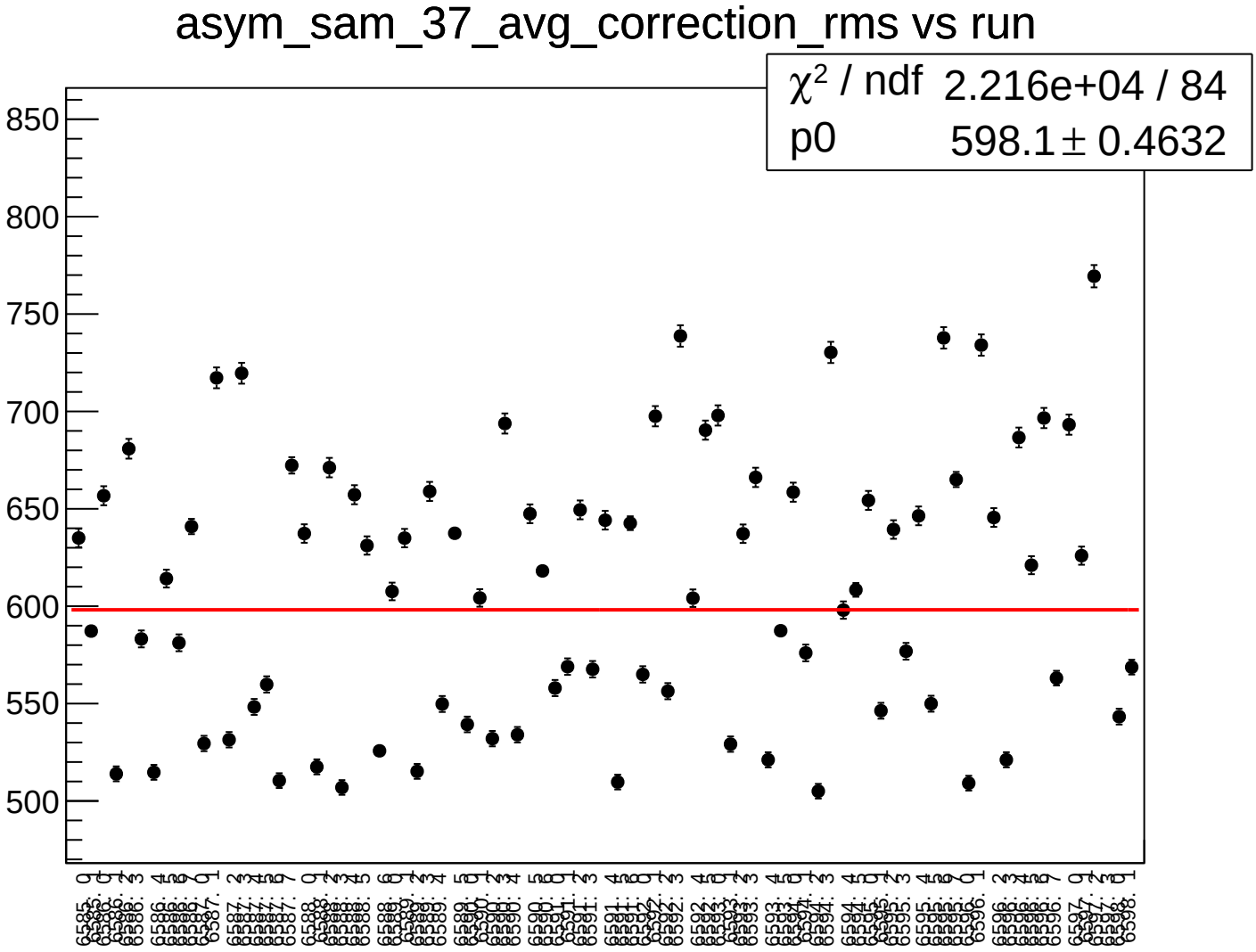

asym_sam_26_avg_rms vs run
χ² / ndf 1.943e+04 / 84
p0 589.4 ± 0.4561
850
800
750
700
650
600
550
500

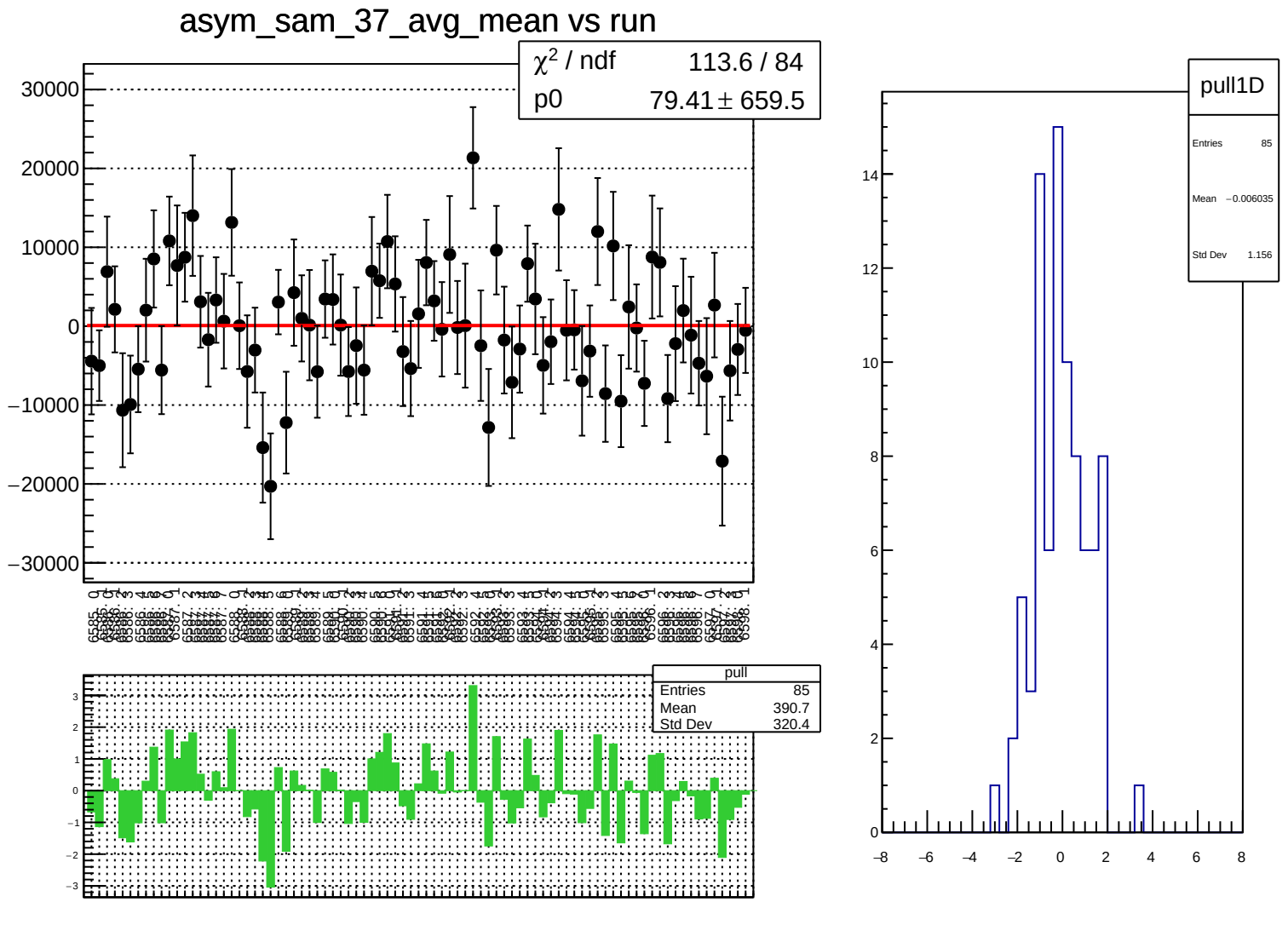

reg_asym_sam_37_avg_mean vs run
χ² / ndf 97.26 / 84
p0 −13.05 ± 75.48
pull
Entries 85
Mean 175.5
Std Dev 268.2
pull1D
Entries 85
Mean 0.001902
Std Dev 1.07

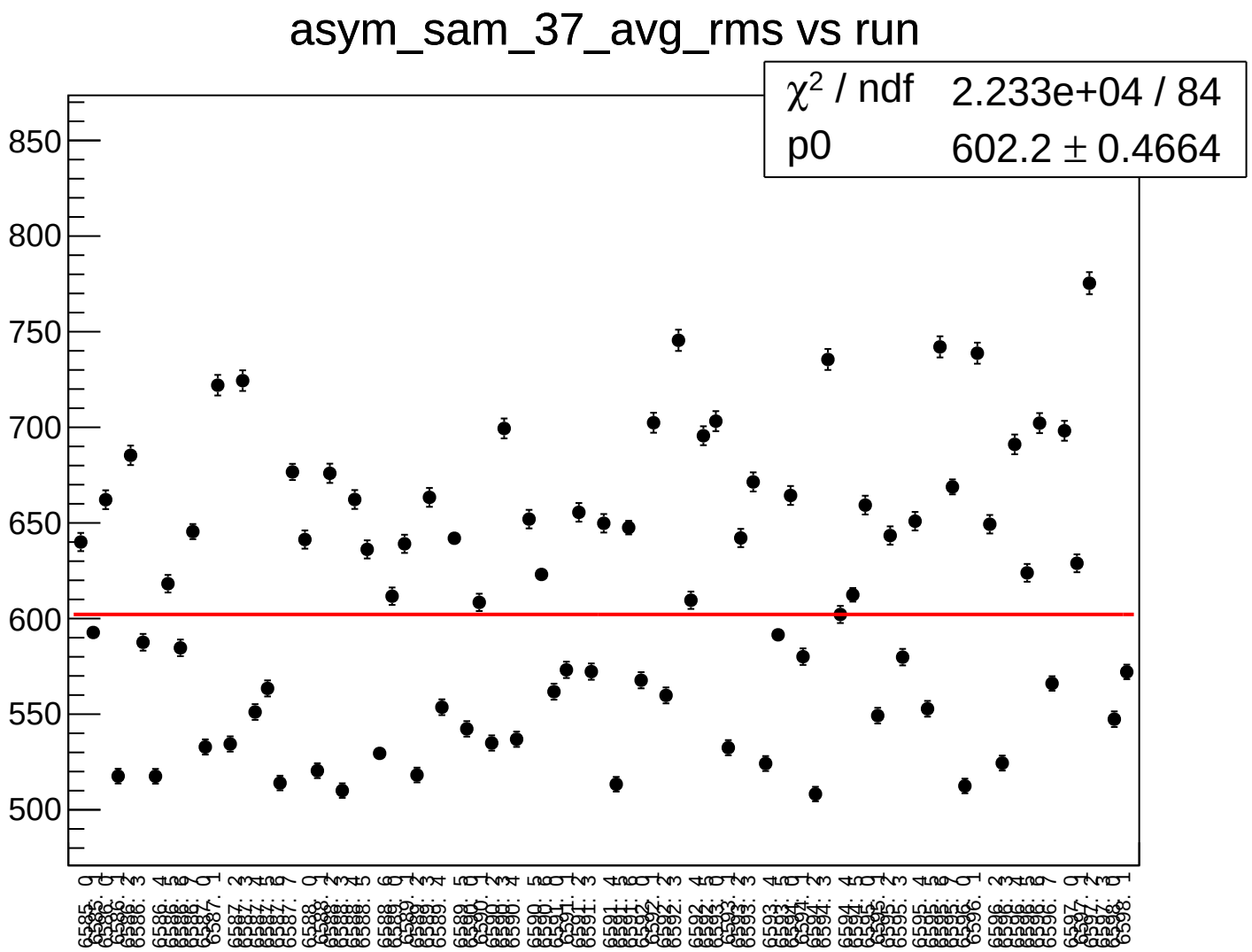
reg_asym_sam_37_avg_rms vs run

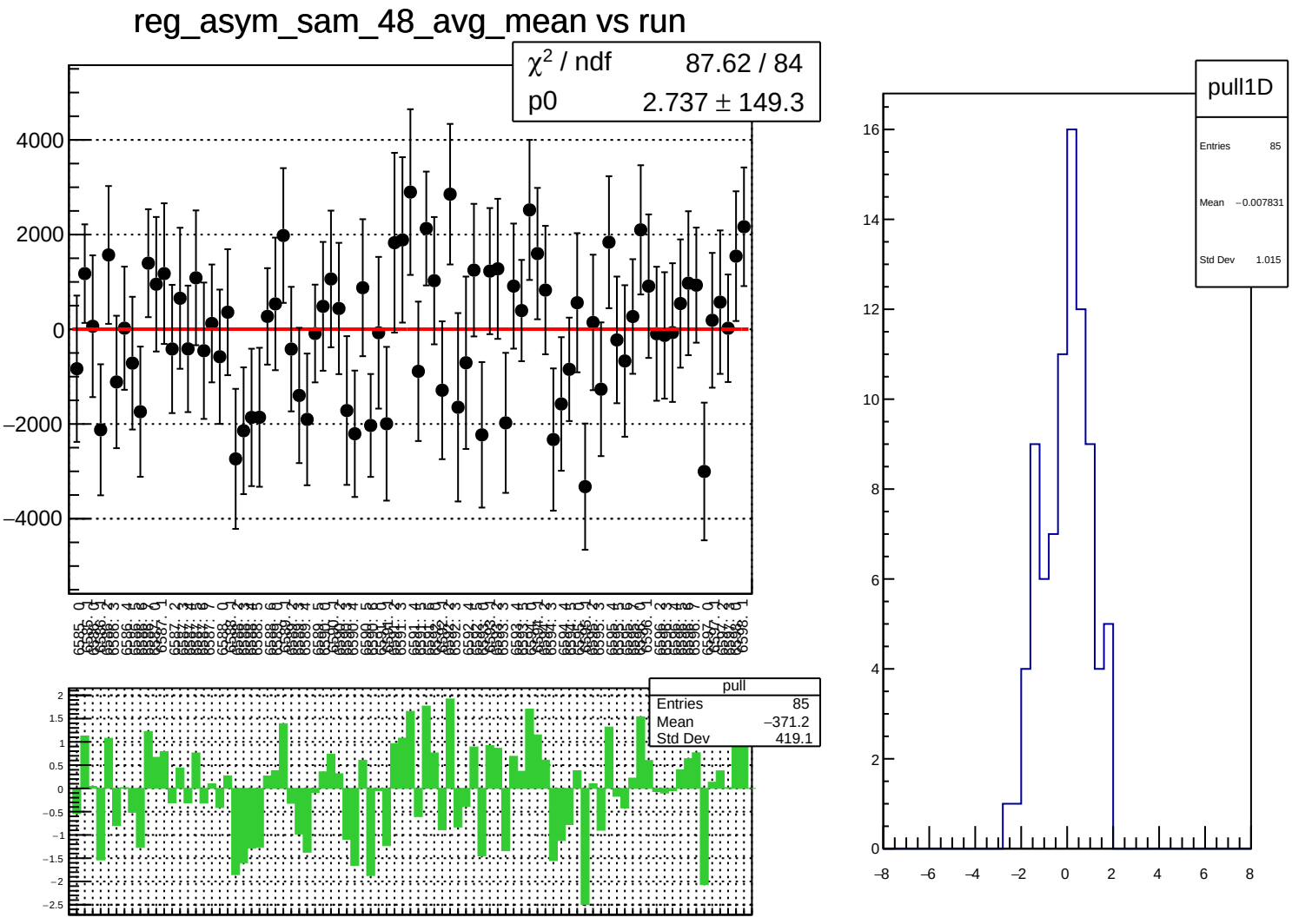



asym_sam_37_avg_correction_mean vs run
χ^2 / ndf 117.9 / 84
p0 −74.34 ± 655.1
pull
Entries 85
Mean 480.9
Std Dev 414.5
pull1D
Entries 85
Mean 0.004926
Std Dev 1.178

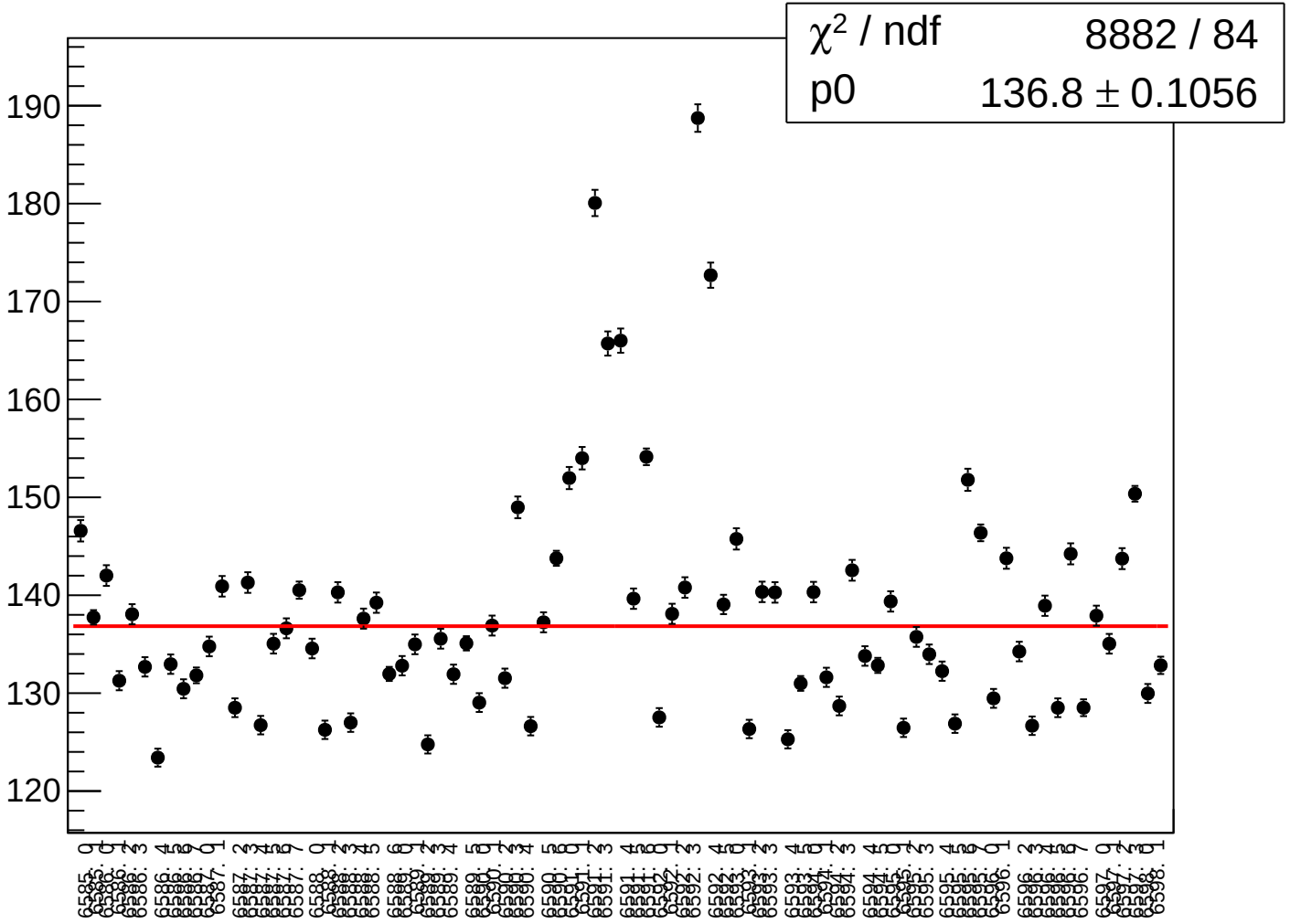

asym_sam_37_avg_correction_rms vs run
χ^2 / ndf 2.216e+04 / 84
p0 598.1 ± 0.4632
850
800
750
700
650
600
550
500

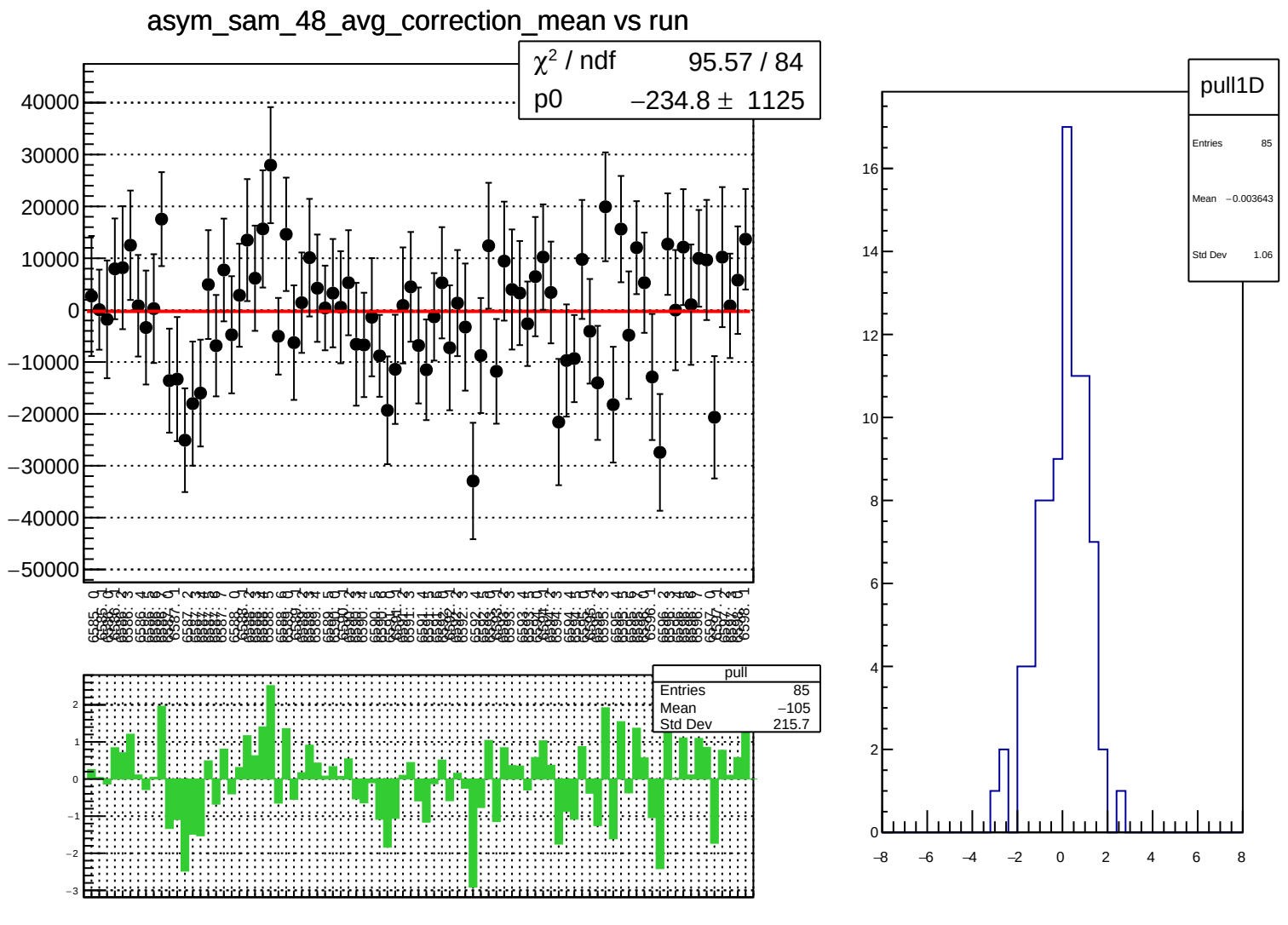

asym_sam_37_avg_mean vs run
χ² / ndf 113.6 / 84
p0 79.41 ± 659.5
pull
Entries 85
Mean 390.7
Std Dev 320.4
pull1D
Entries 85
Mean −0.006035
Std Dev 1.156

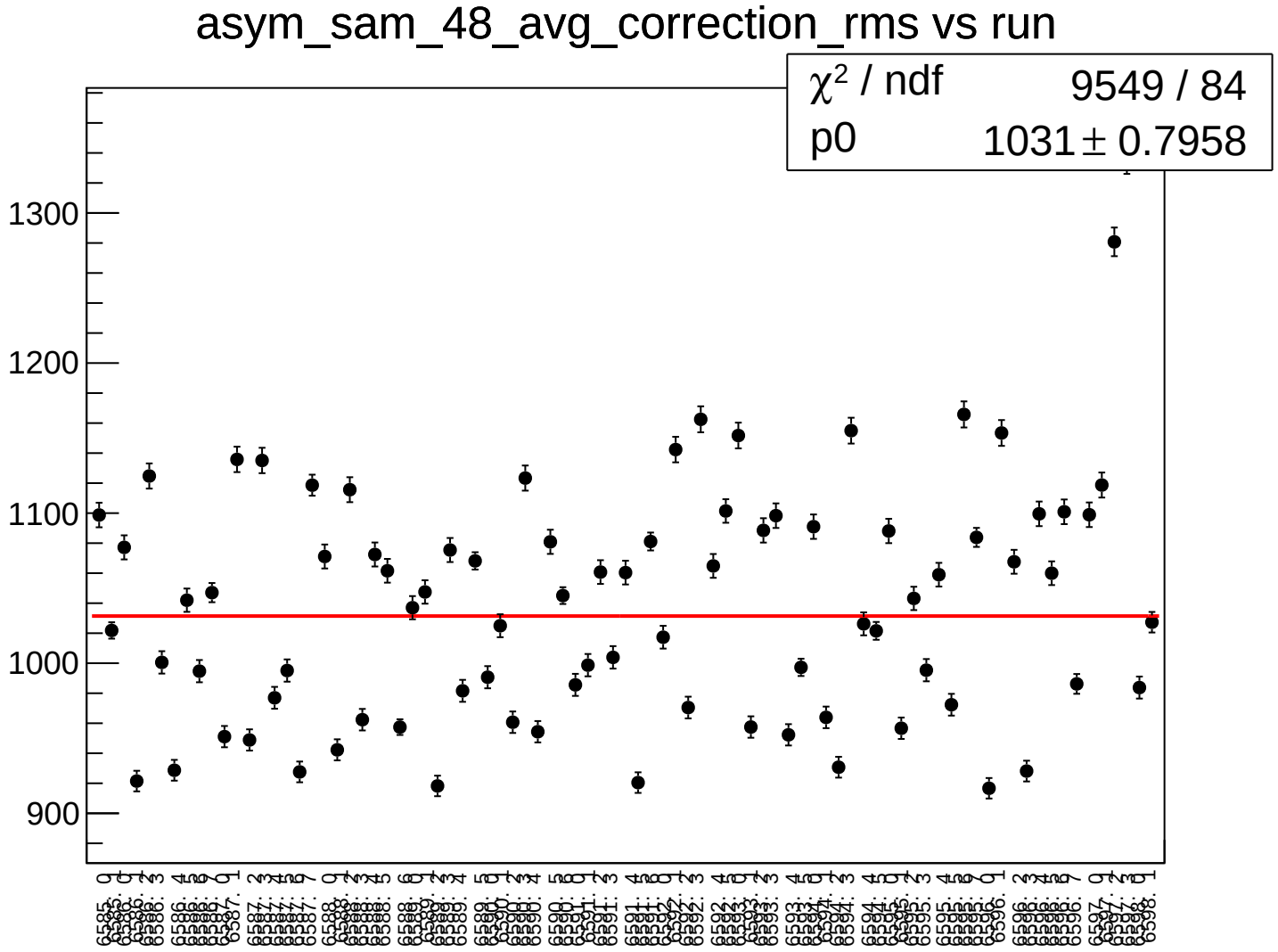

asym_sam_37_avg_rms vs run
χ^2 / ndf 2.233e+04 / 84
p0 602.2 ± 0.4664
850
800
750
700
650
600
550
500

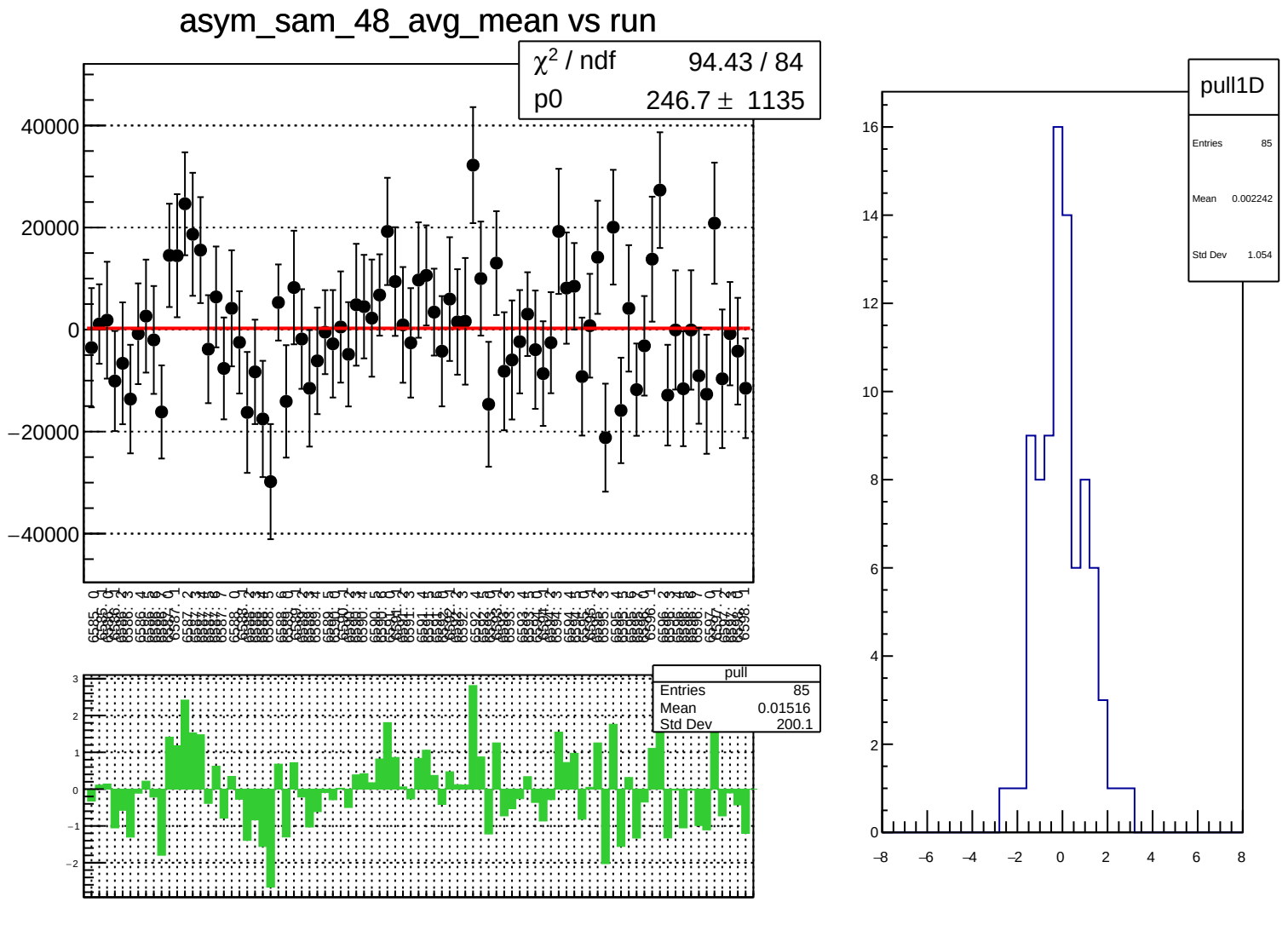

reg_asym_sam_48_avg_mean vs run
χ² / ndf 87.62 / 84
p0 2.737 ± 149.3
pull
Entries 85
Mean −371.2
Std Dev 419.1
pull1D
Entries 85
Mean −0.007831
Std Dev 1.015

reg_asym_sam_48_avg_rms vs run

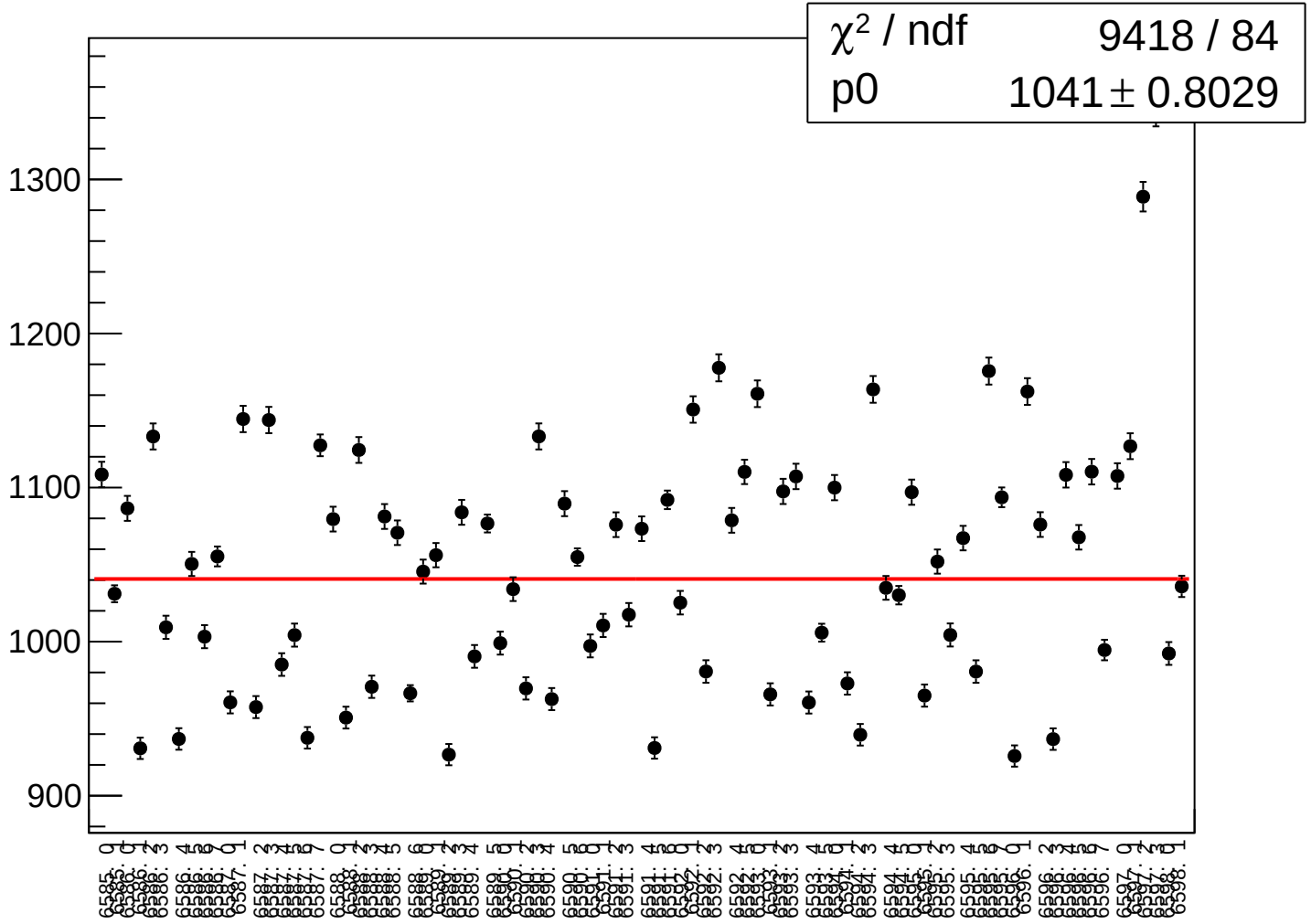


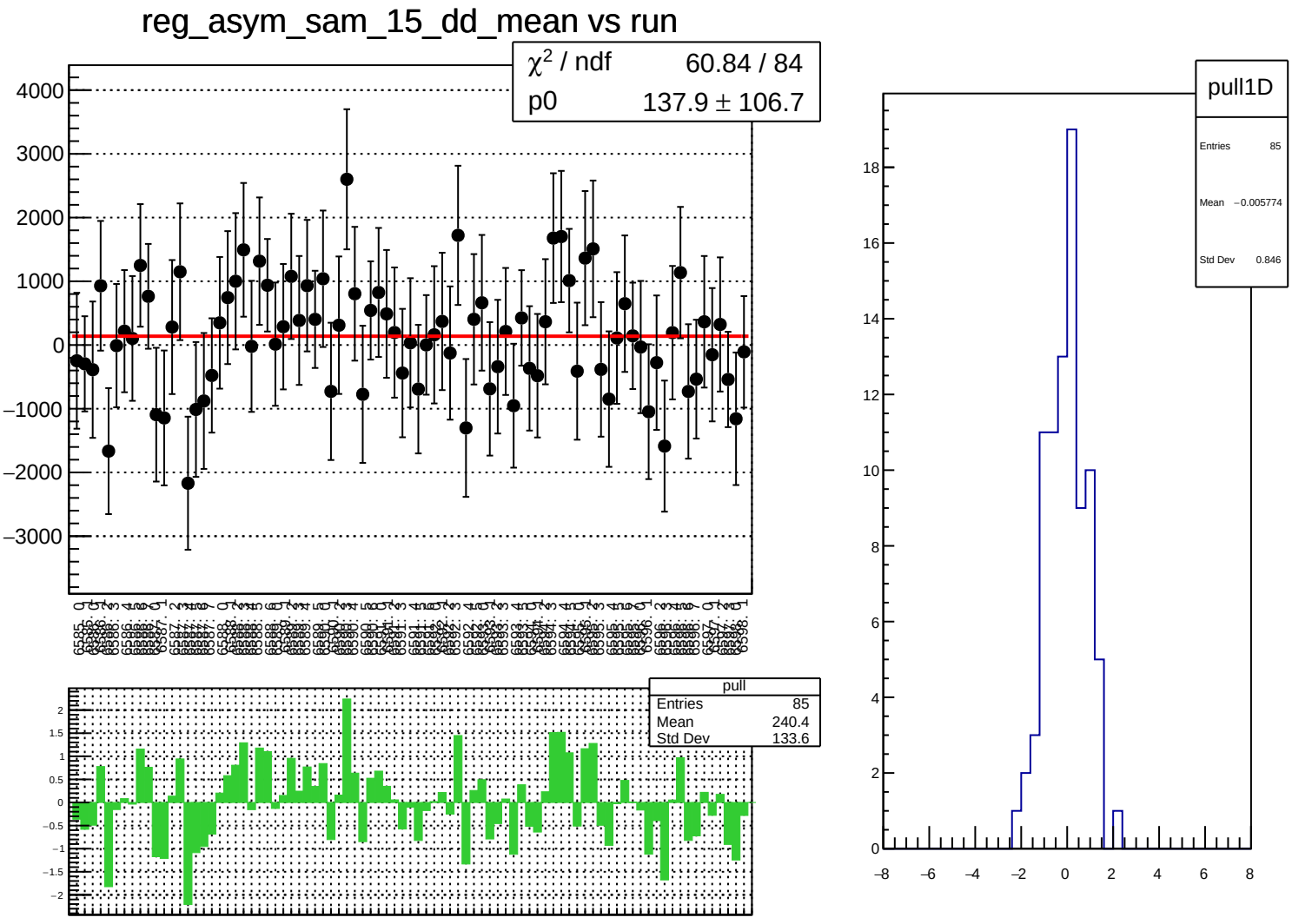

asym_sam_48_avg_correction_mean vs run
χ² / ndf 95.57 / 84
p0 −234.8 ± 1125
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 85
Mean −105
Std Dev 215.7
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.003643
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_correction_rms vs run
χ² / ndf 9549 / 84
p0 1031 ± 0.7958
1300
1200
1100
1000
900

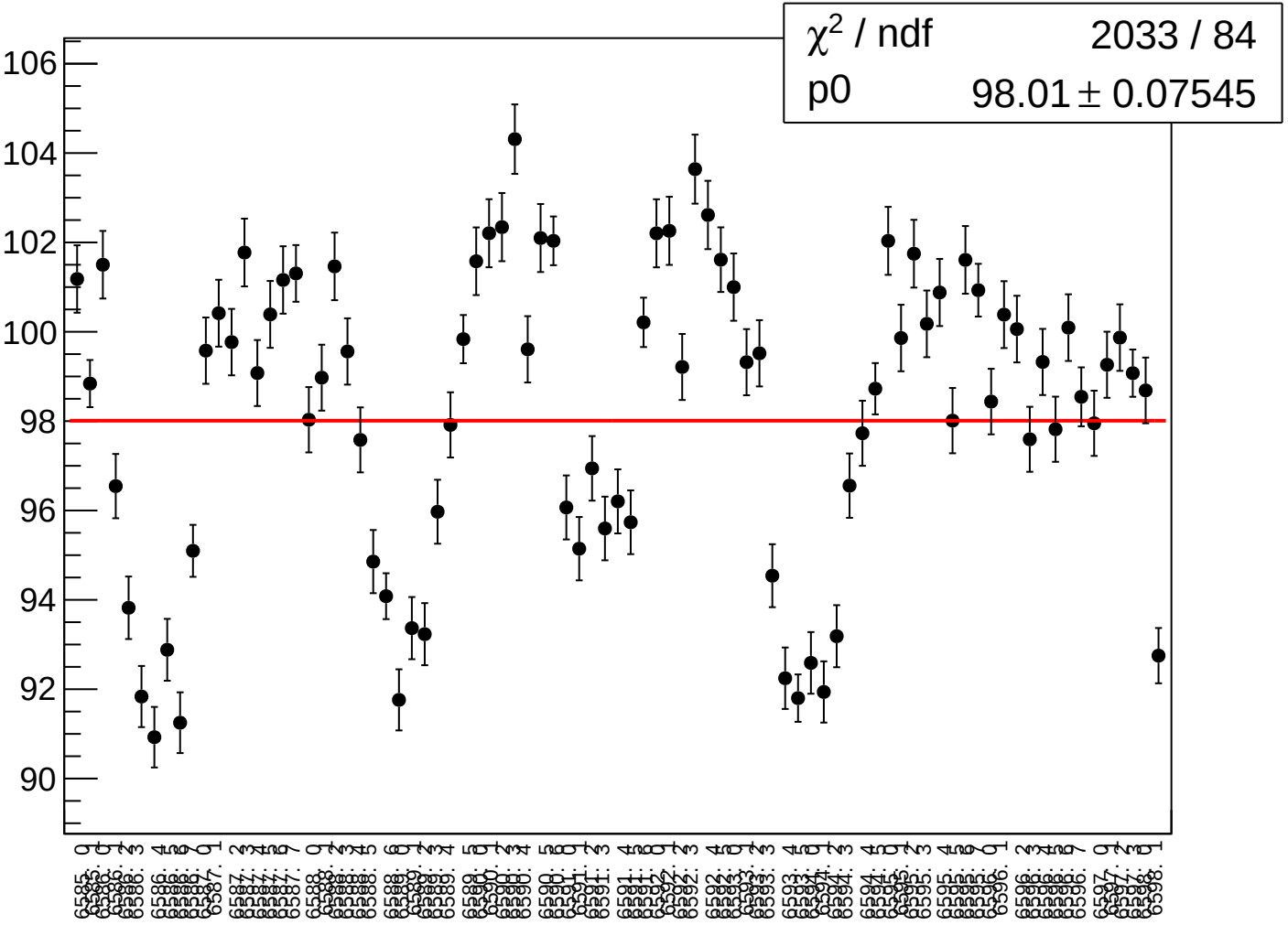

asym_sam_48_avg_mean vs run
χ² / ndf 94.43 / 84
p0 246.7 ± 1135
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 0.01516
Std Dev 200.1
pull1D
Entries 85
Mean 0.002242
Std Dev 1.054

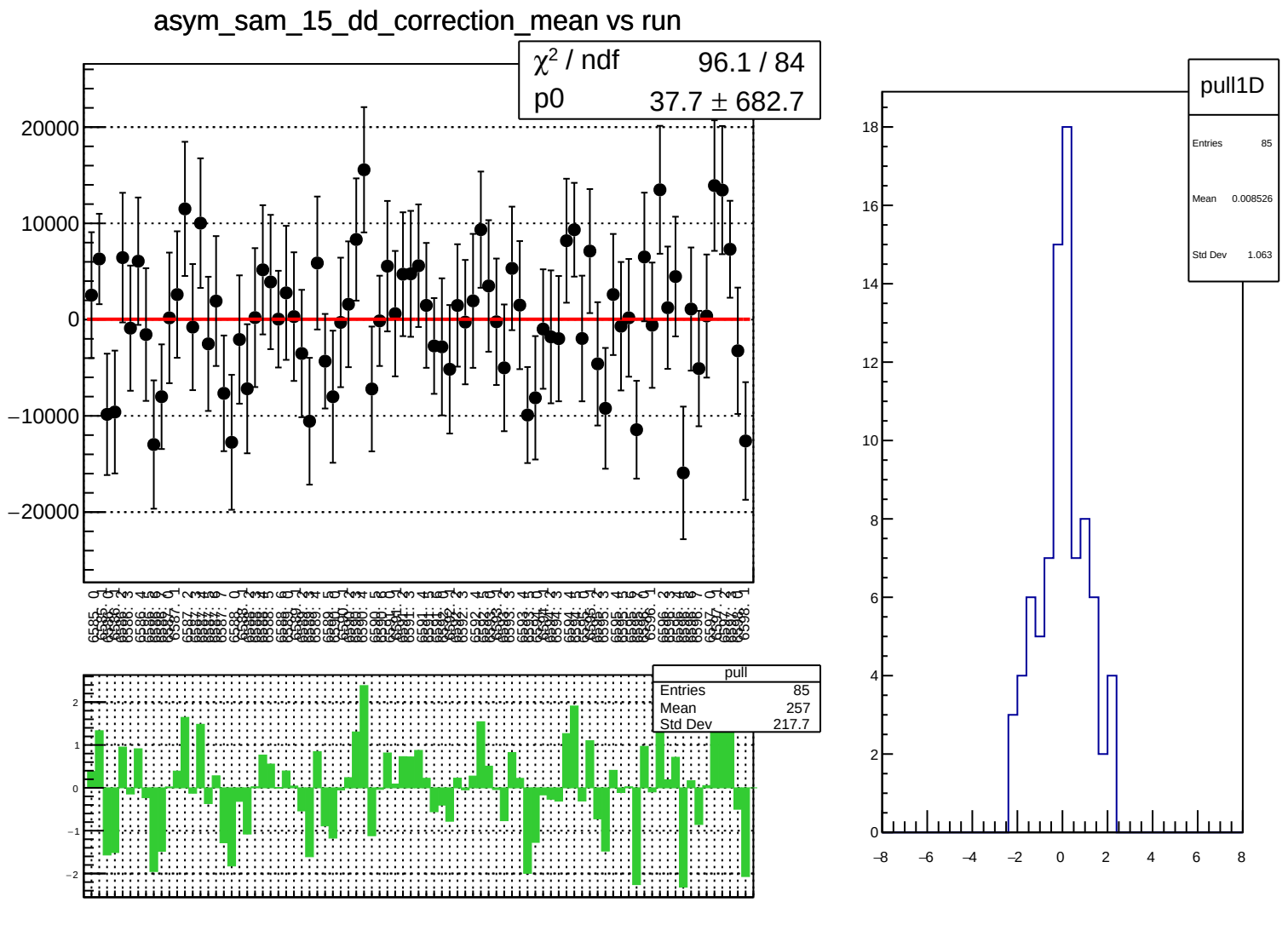
asym_sam_48_avg_rms vs run

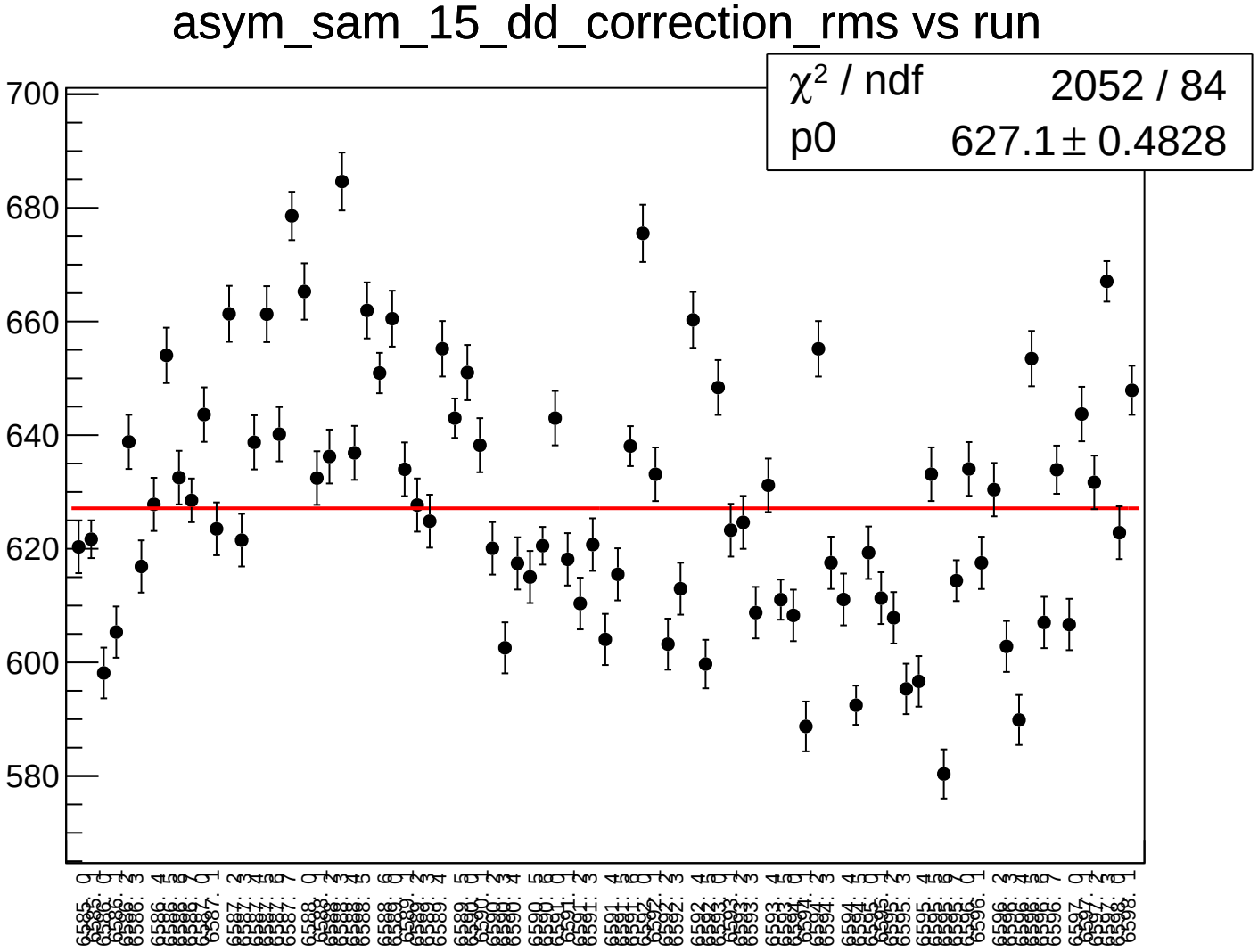


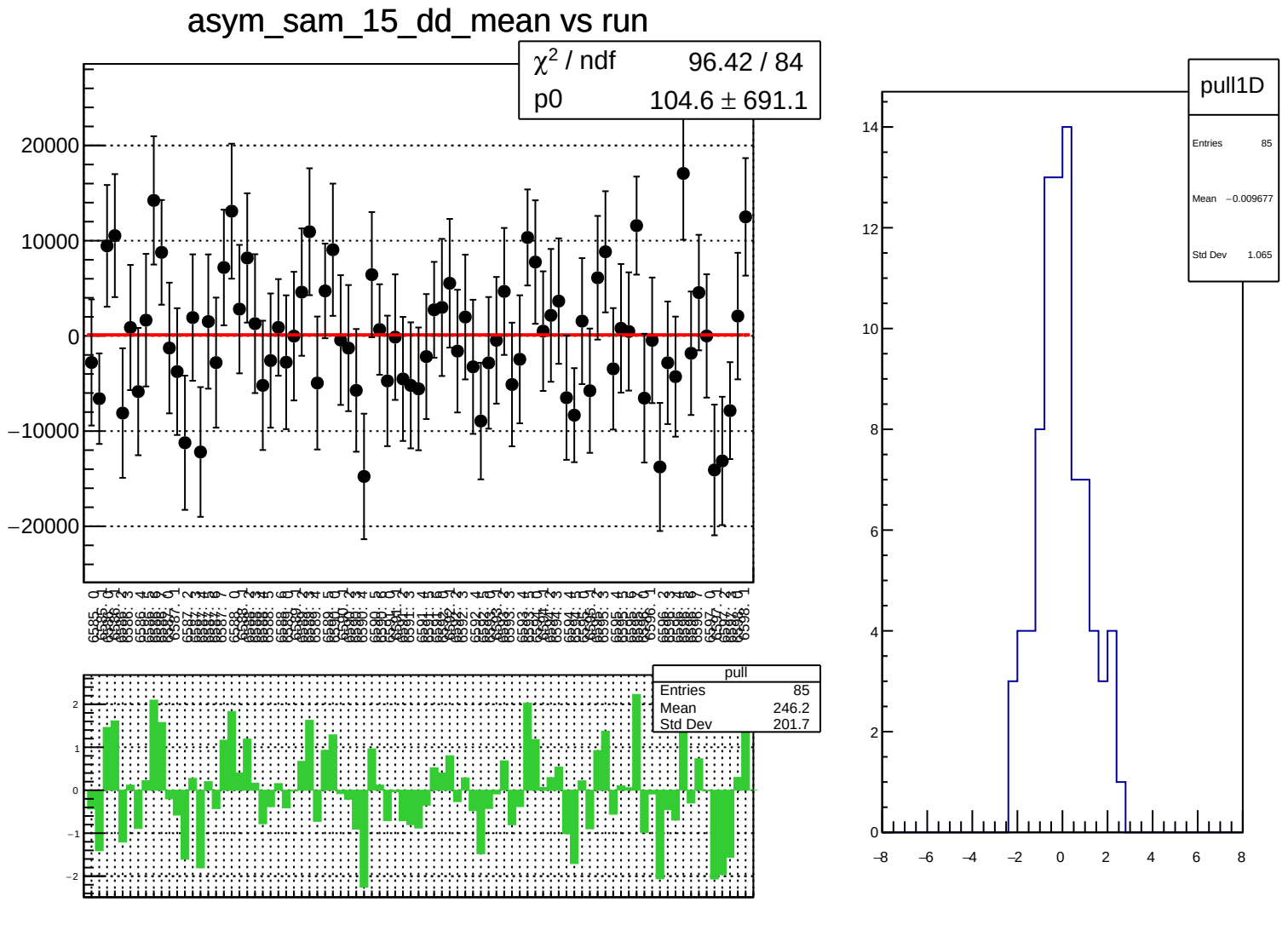

reg_asym_sam_15_dd_mean vs run
χ² / ndf 60.84 / 84
p0 137.9 ± 106.7
pull
Entries 85
Mean 240.4
Std Dev 133.6
pull1D
Entries 85
Mean −0.005774
Std Dev 0.846

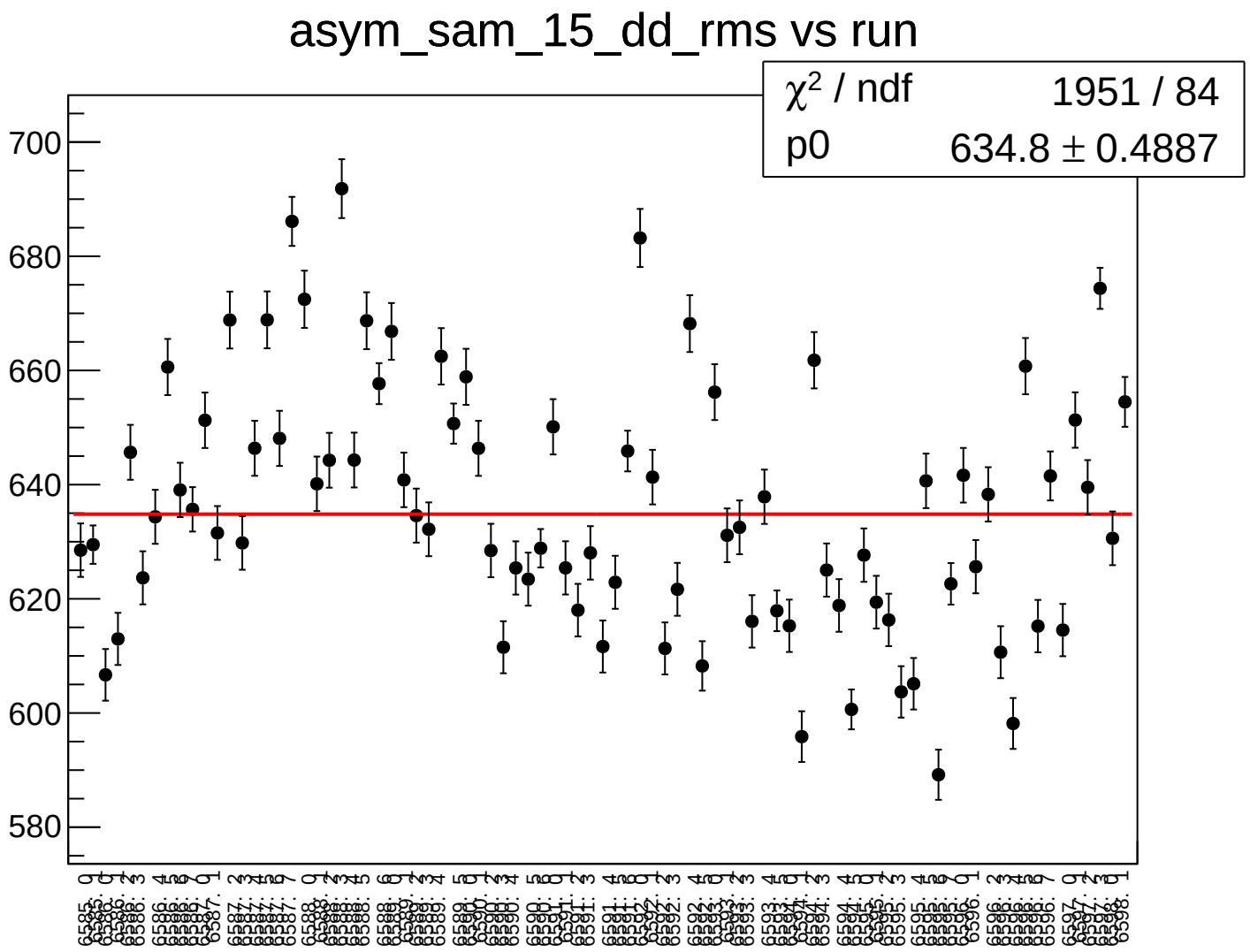
reg_asym_sam_15_dd_rms vs run

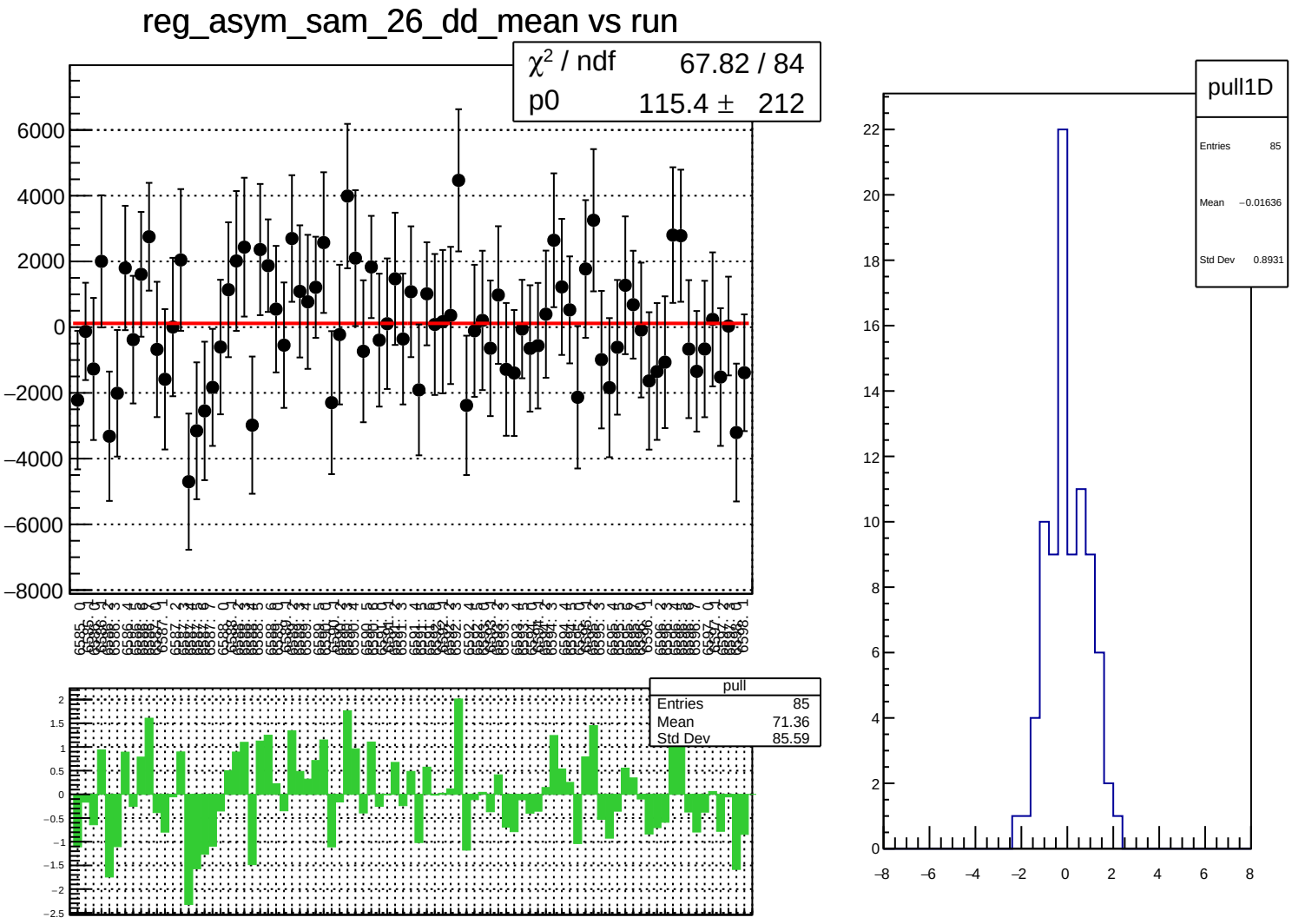



asym_sam_15_dd_correction_mean vs run
χ² / ndf 96.1 / 84
p0 37.7 ± 682.7
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 257
Std Dev 217.7
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.008526
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

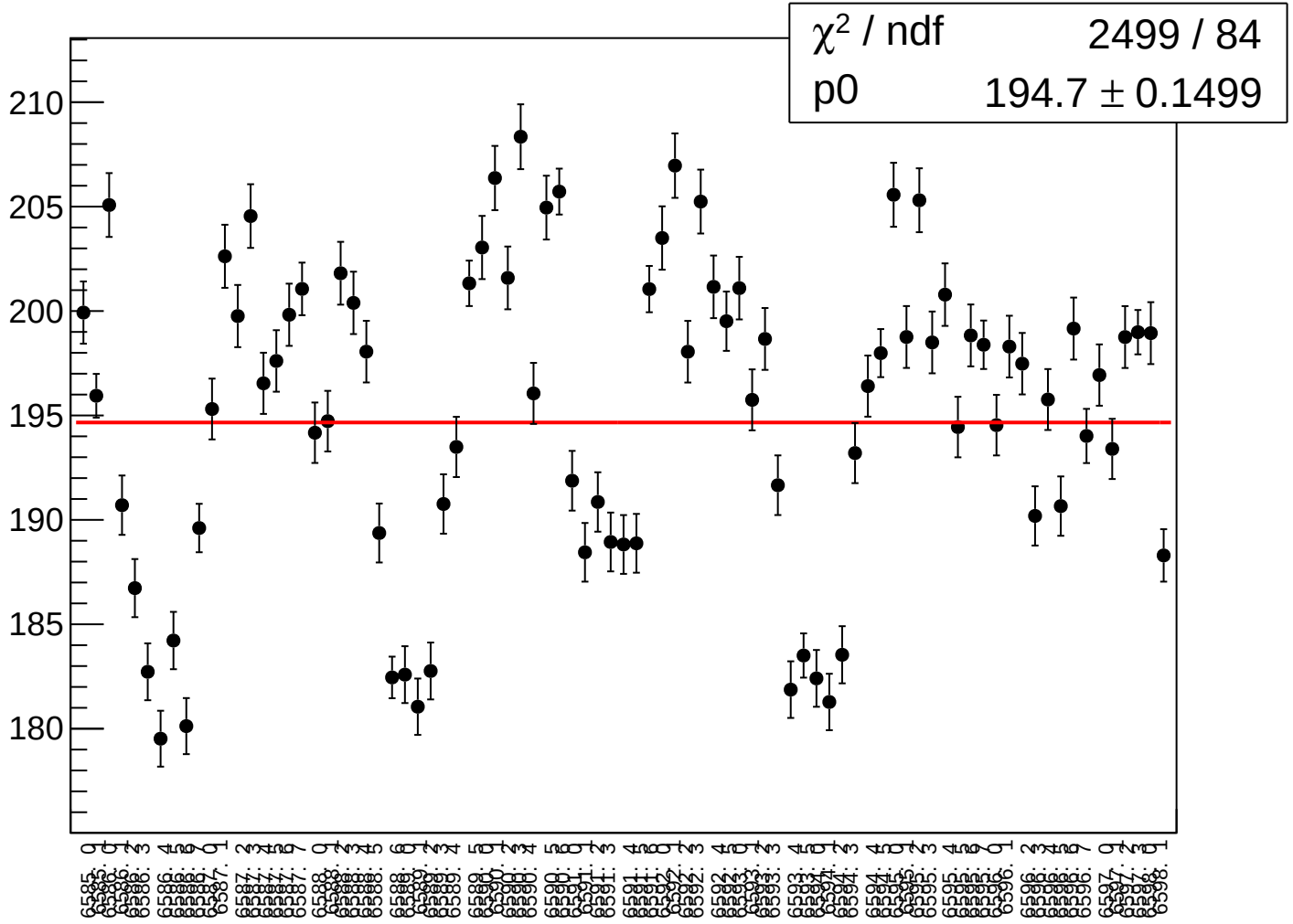

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2052 / 84
p0 627.1 ± 0.4828
700
680
660
640
620
600
580

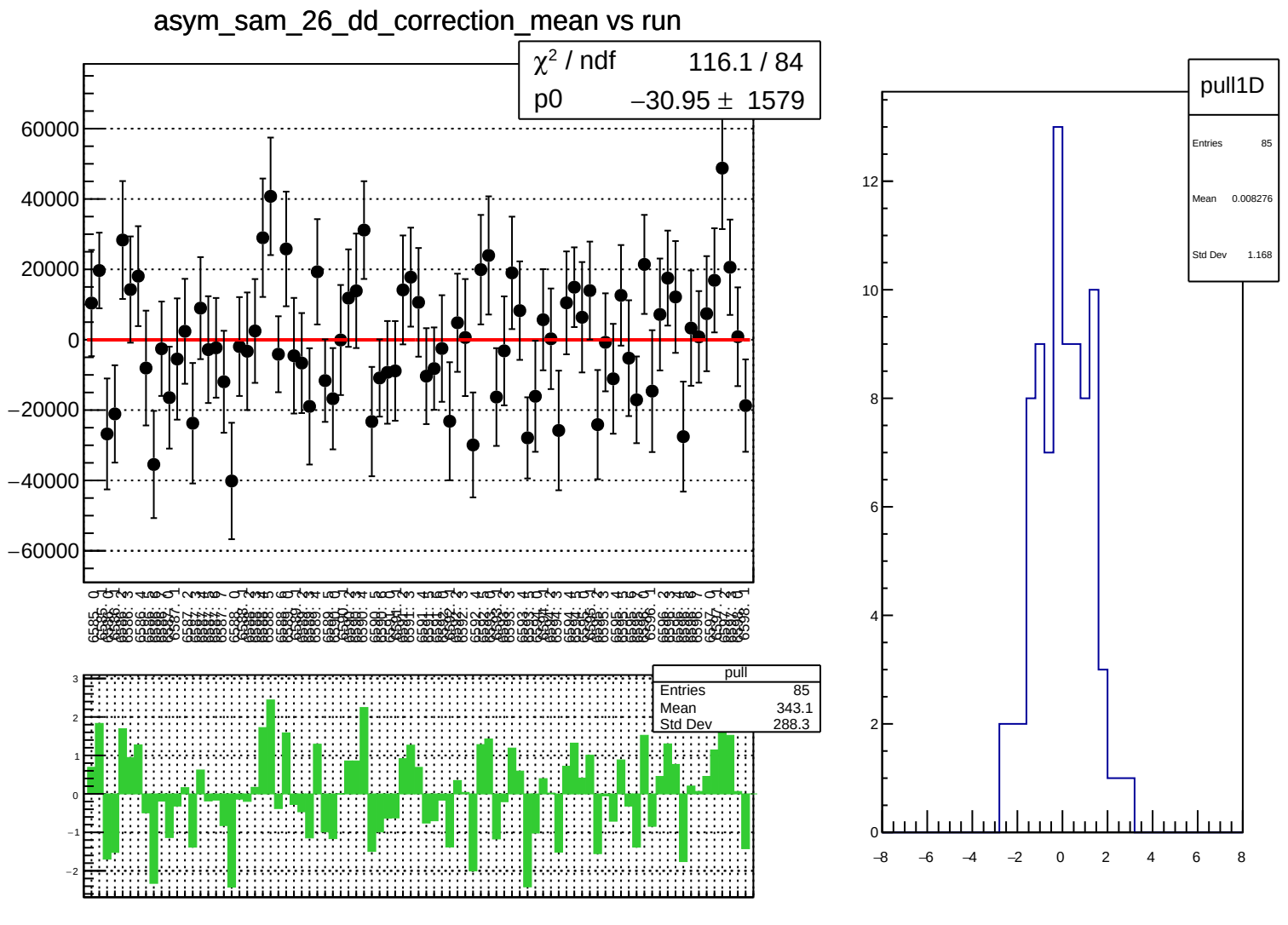

asym_sam_15_dd_mean vs run
χ² / ndf 96.42 / 84
p0 104.6 ± 691.1
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 246.2
Std Dev 201.7
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.009677
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_rms vs run
χ² / ndf 1951 / 84
p0 634.8 ± 0.4887
700
680
660
640
620
600
580

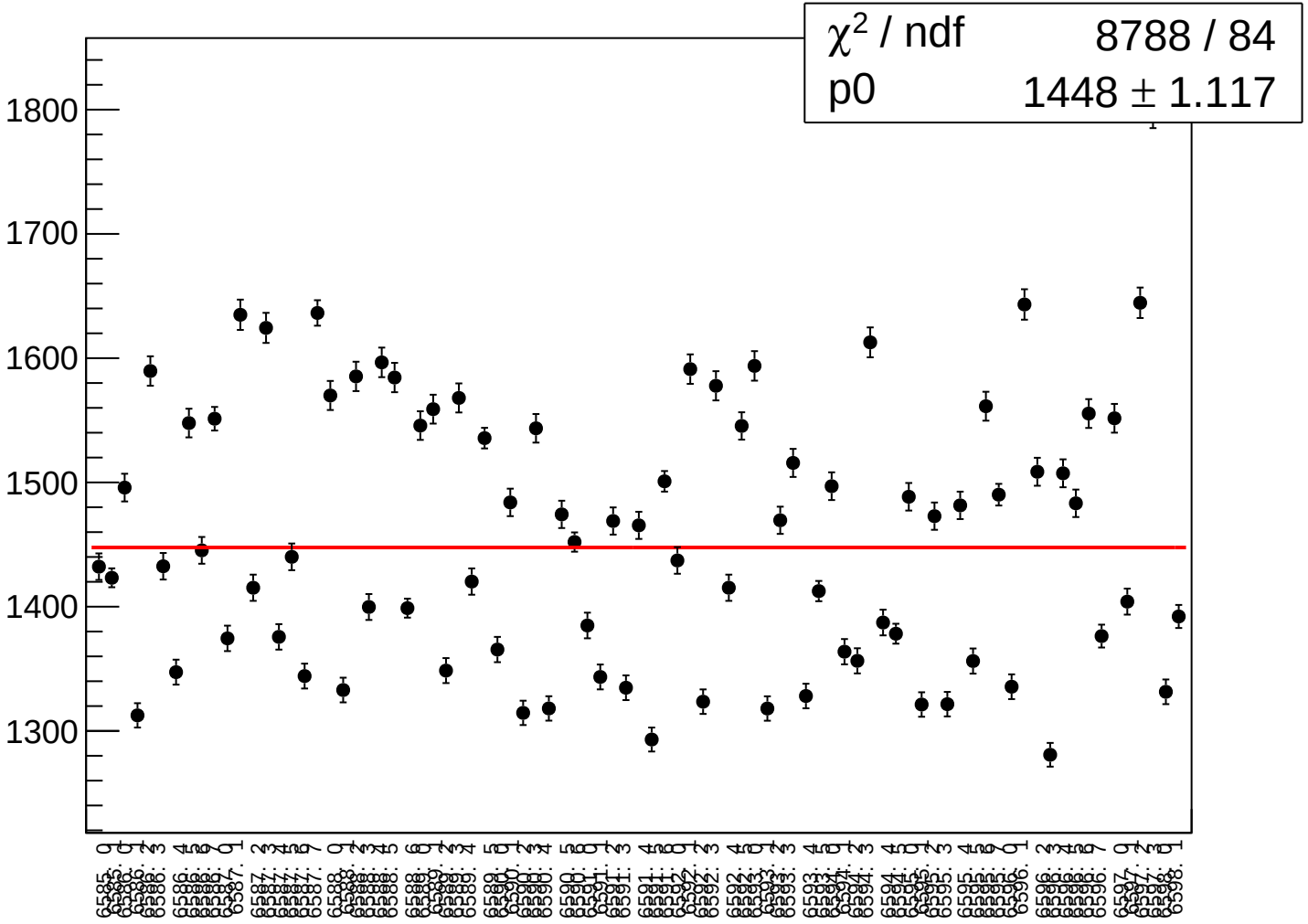

reg_asym_sam_26_dd_mean vs run
χ² / ndf 67.82 / 84
p0 115.4 ± 212
pull
Entries 85
Mean 71.36
Std Dev 85.59
pull1D
Entries 85
Mean −0.01636
Std Dev 0.8931

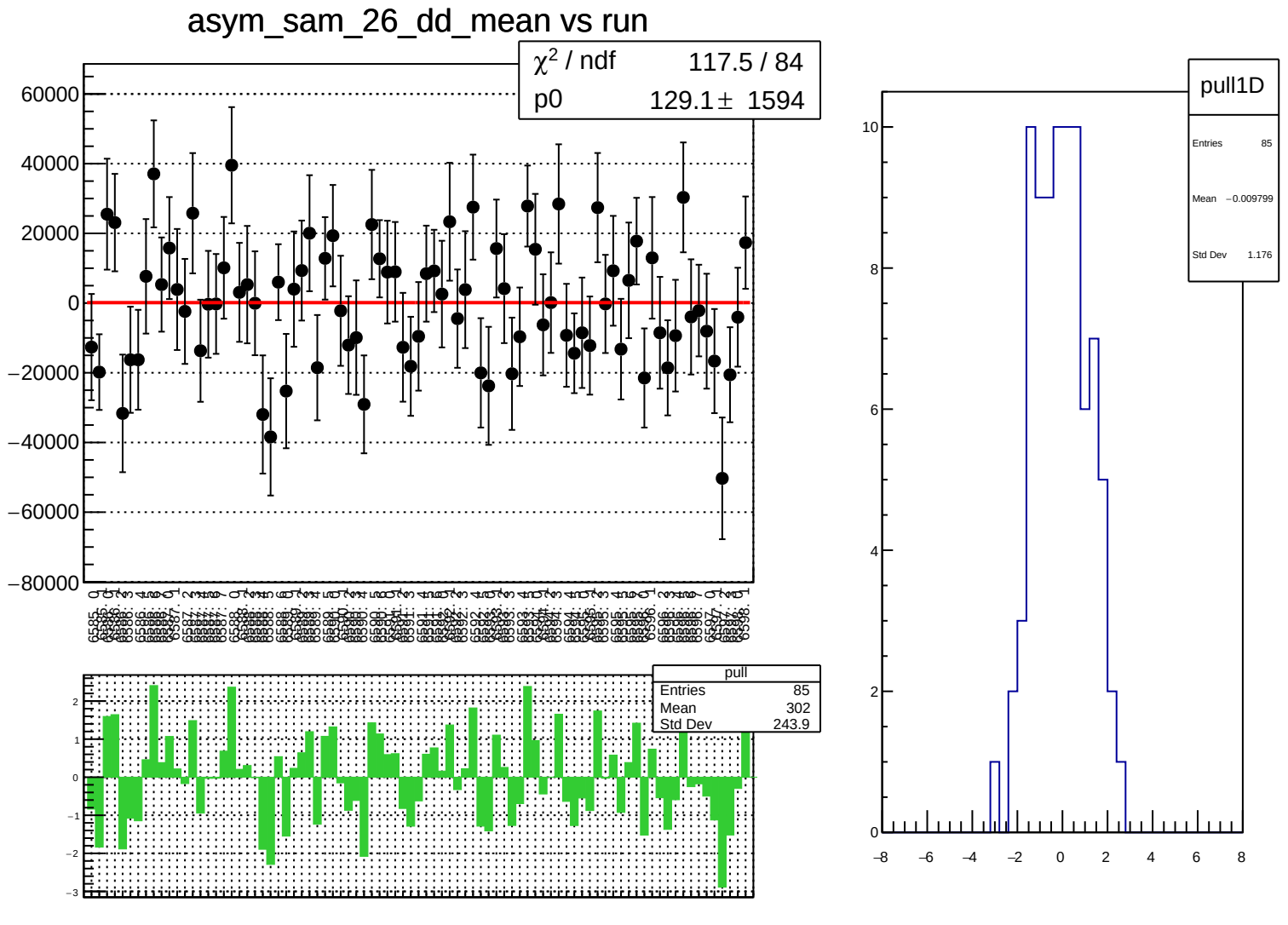
reg_asym_sam_26_dd_rms vs run



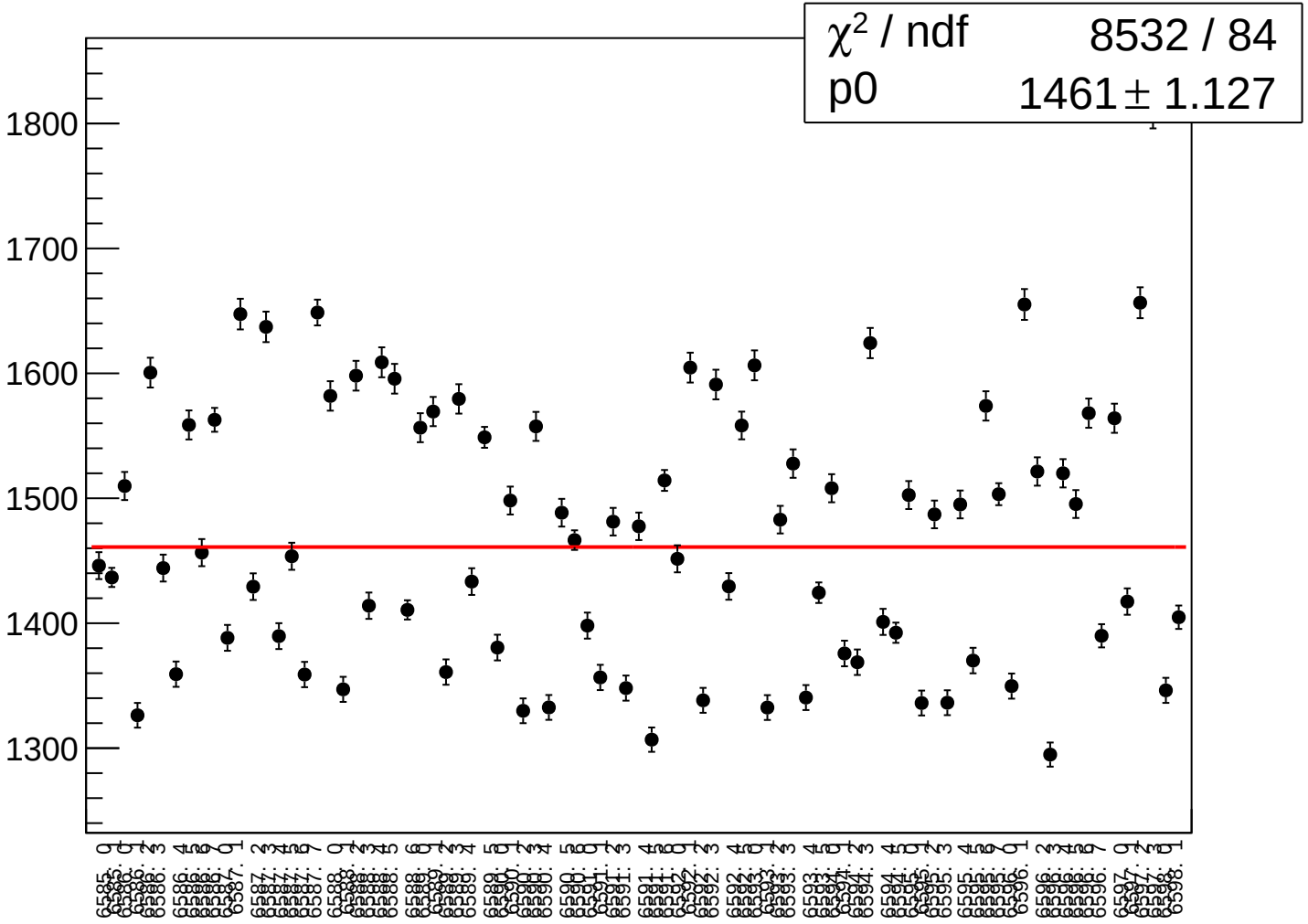

asym_sam_26_dd_correction_mean vs run
χ² / ndf 116.1 / 84
p0 −30.95 ± 1579
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 343.1
Std Dev 288.3
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.008276
Std Dev 1.168
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

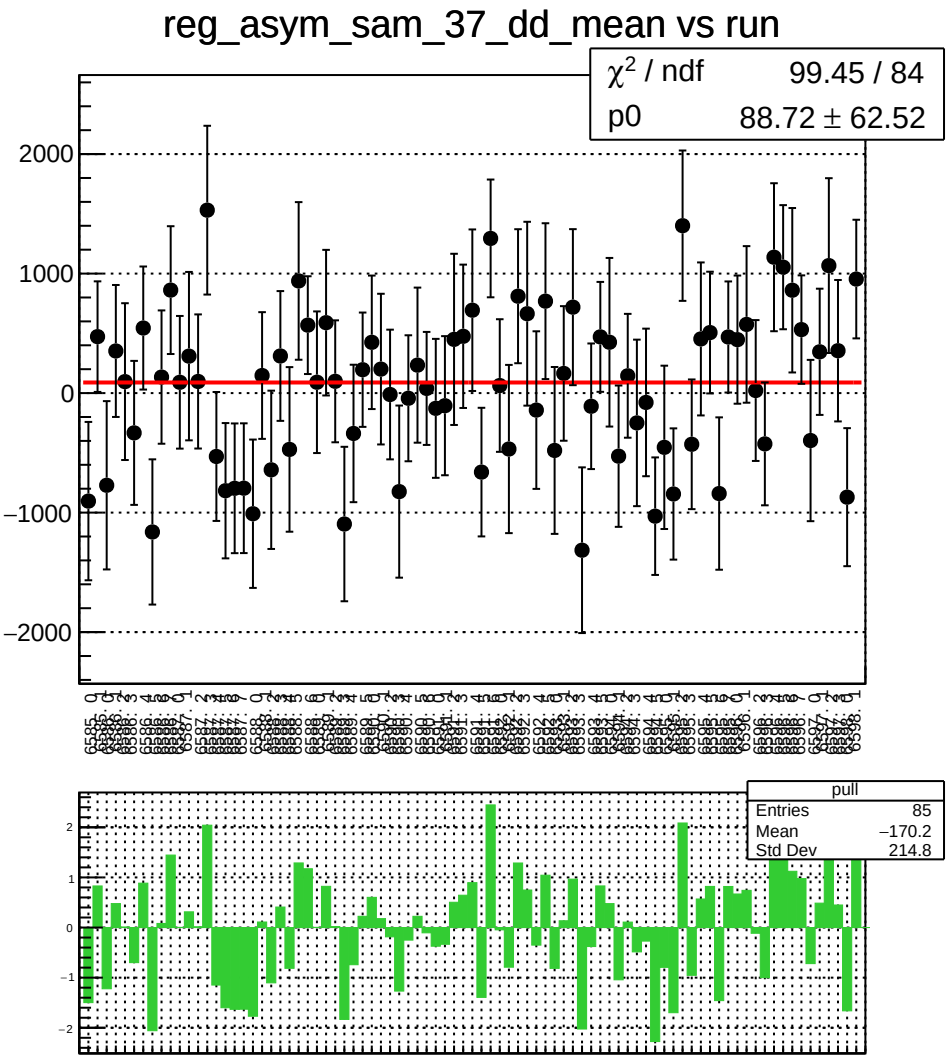
asym_sam_26_dd_correction_rms vs run

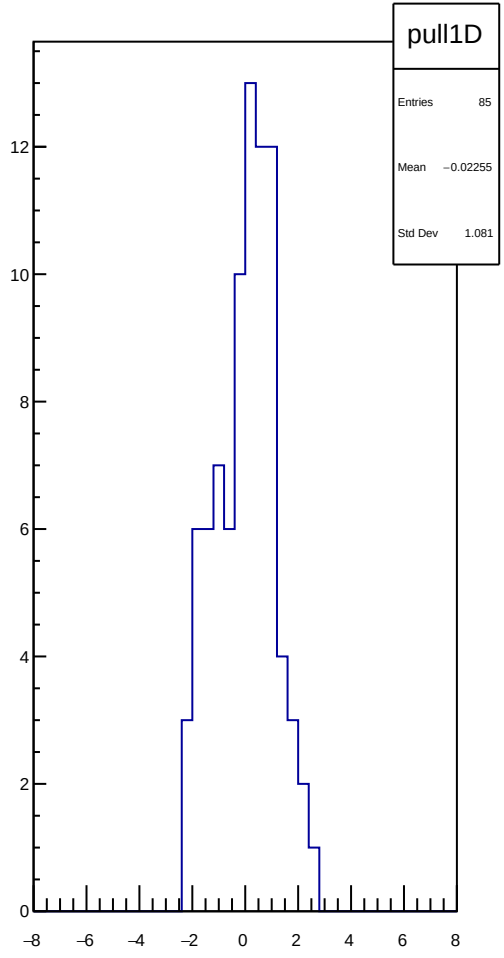



asym_sam_26_dd_mean vs run
χ² / ndf 117.5 / 84
p0 129.1 ± 1594
pull
Entries 85
Mean 302
Std Dev 243.9
pull1D
Entries 85
Mean −0.009799
Std Dev 1.176

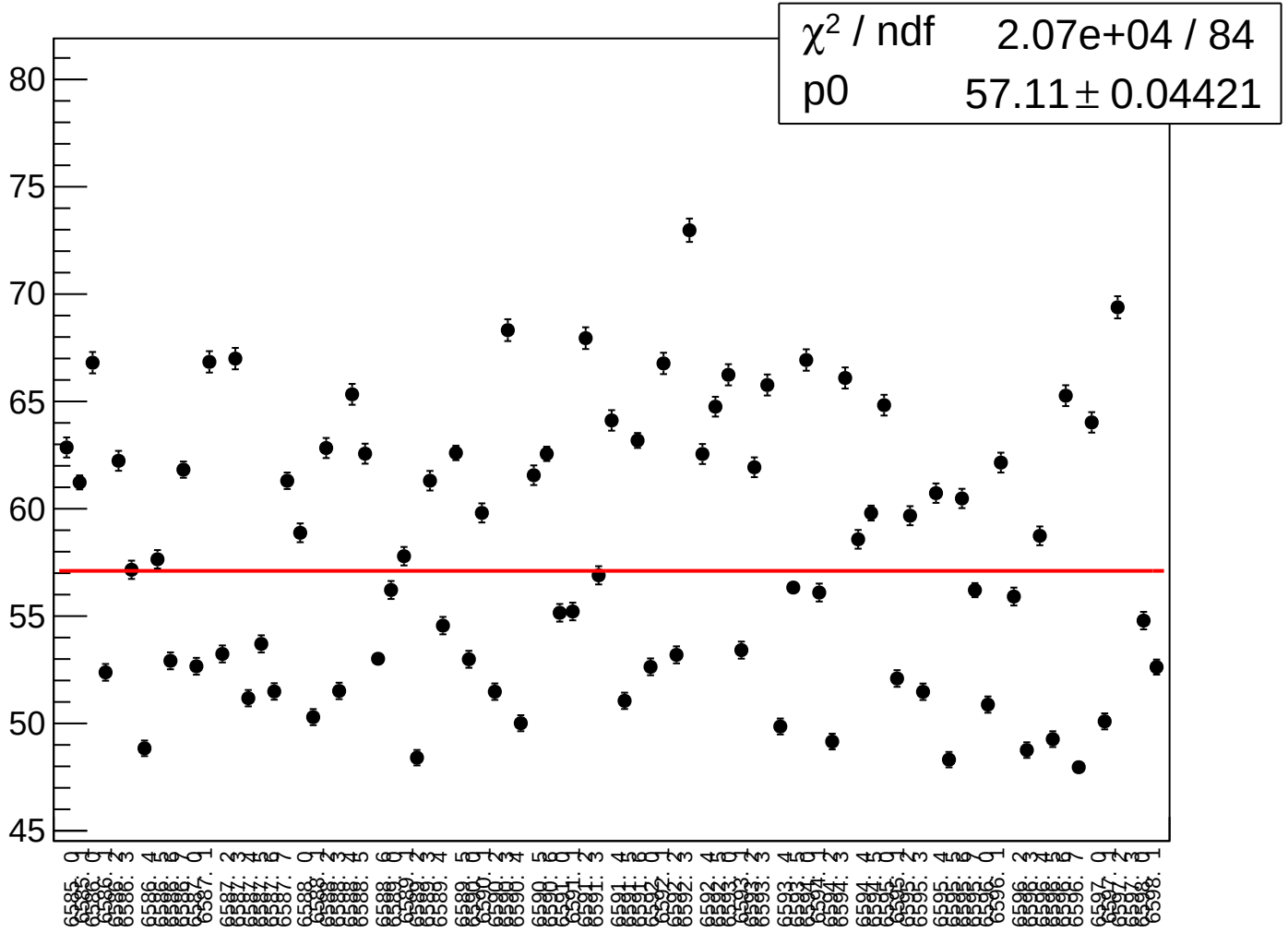
asym_sam_26_dd_rms vs run

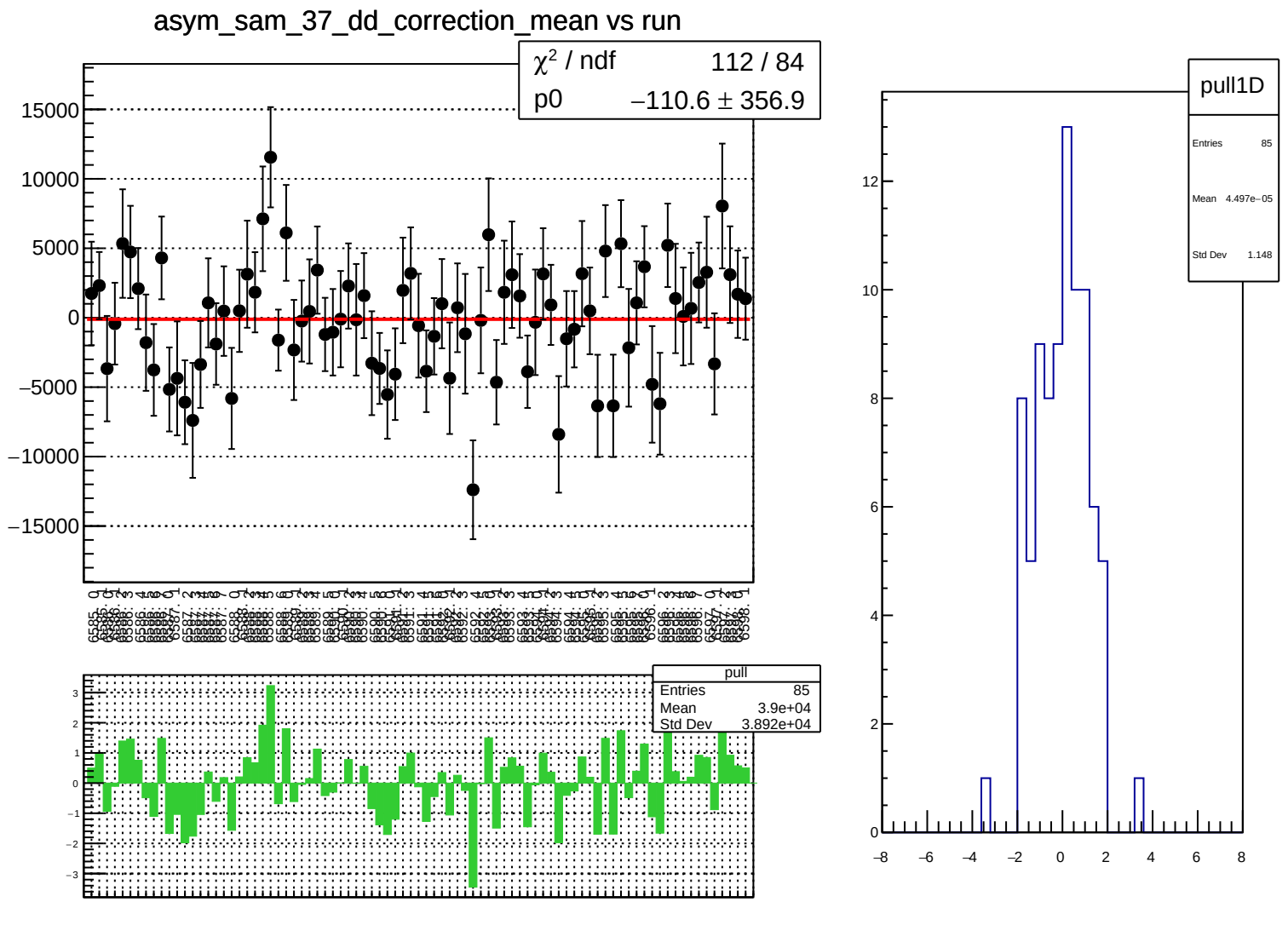



reg_asym_sam_37_dd_mean vs run
χ^2 / ndf 99.45 / 84
p0 88.72 ± 62.52
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −170.2
Std Dev 214.8
2
1
0
−1
−2

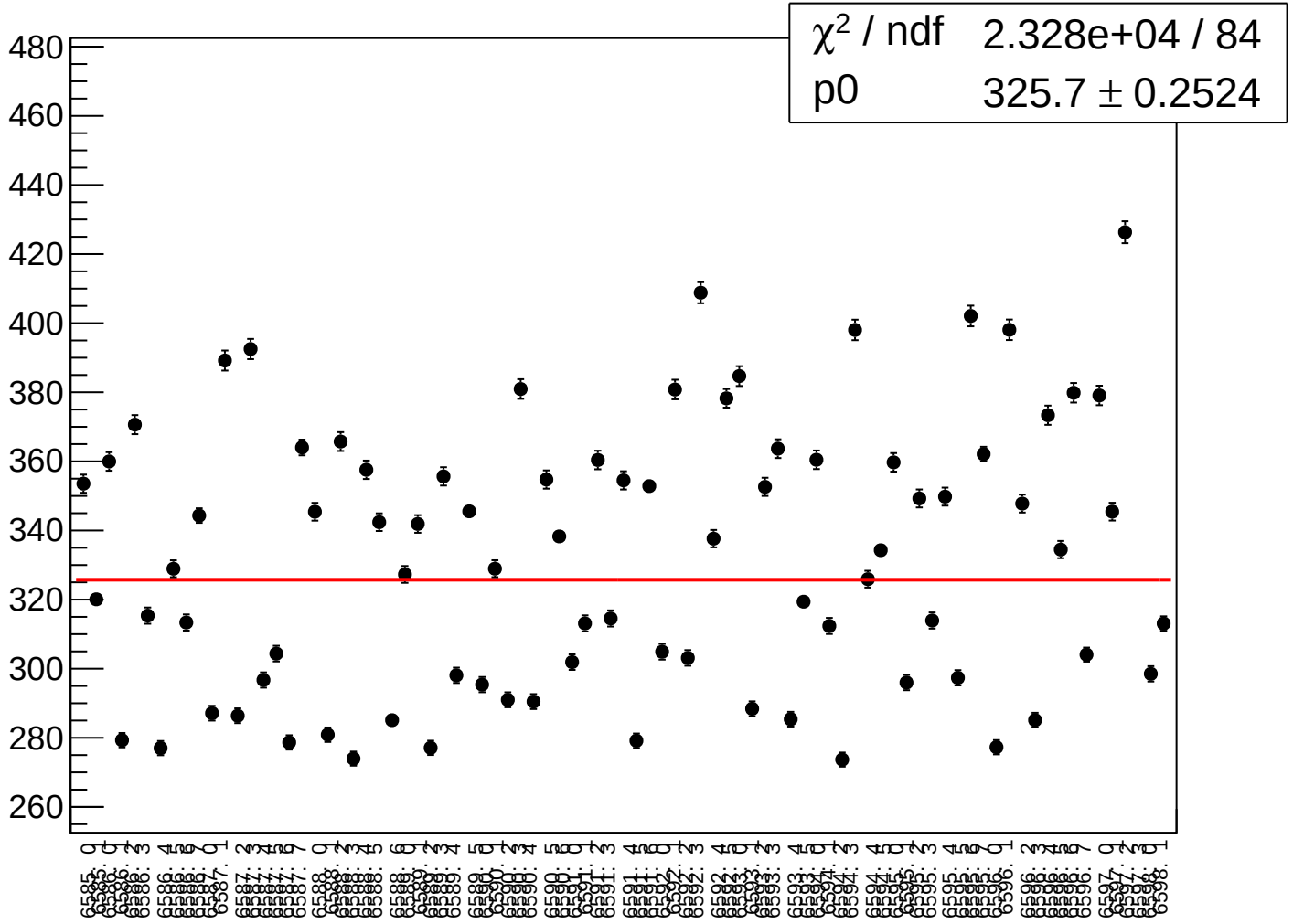

pull1D
Entries 85
Mean −0.02255
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

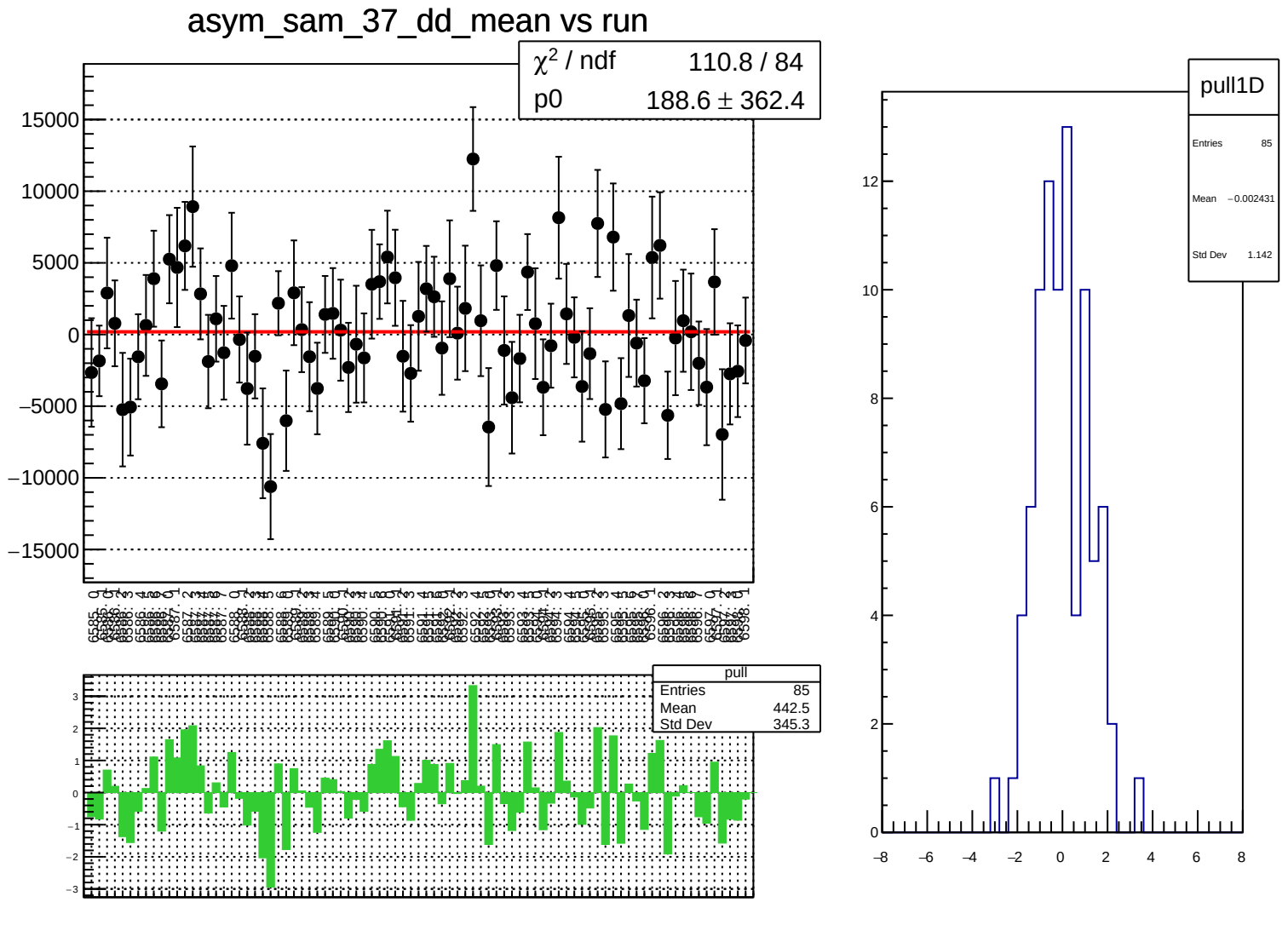
reg_asym_sam_37_dd_rms vs run

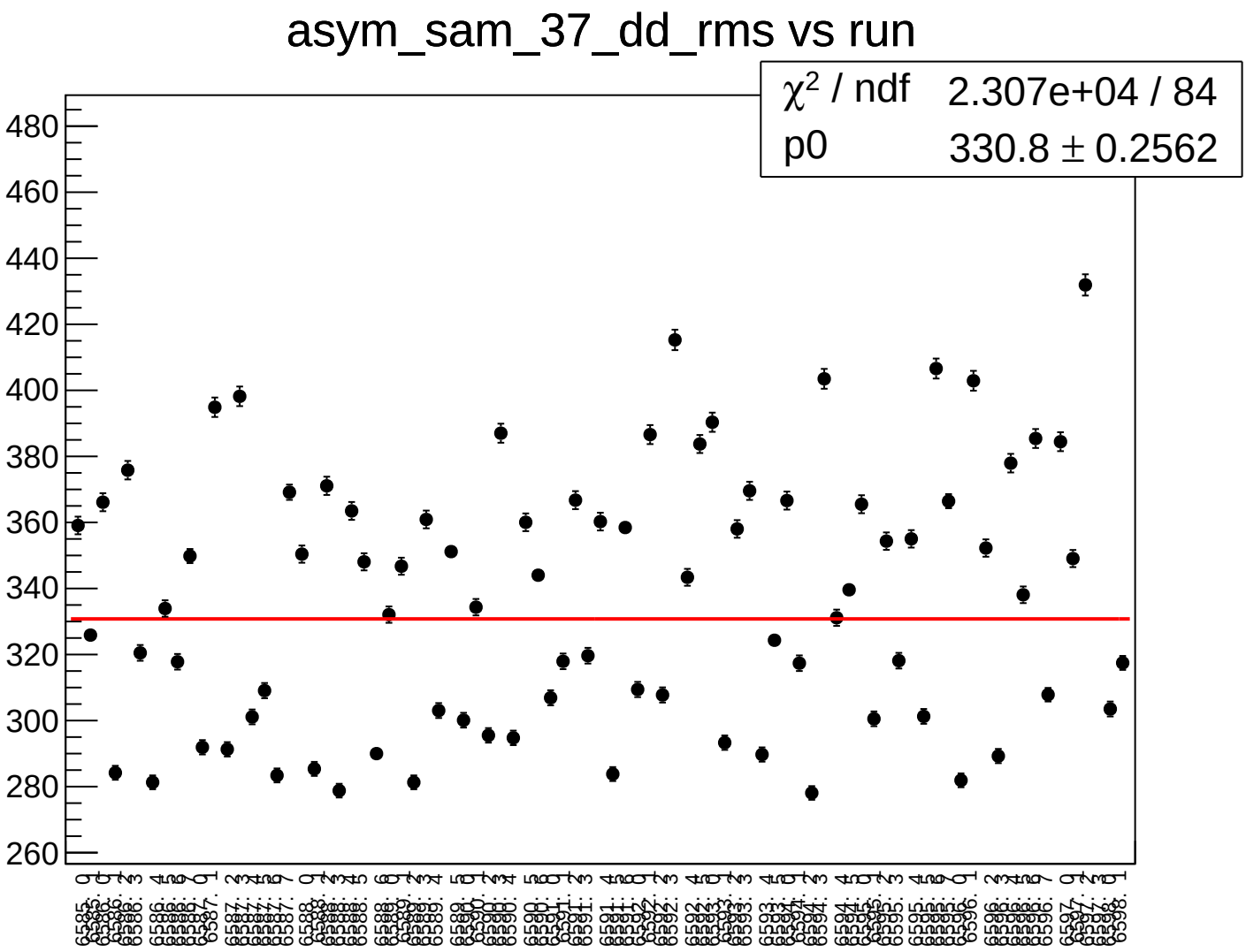


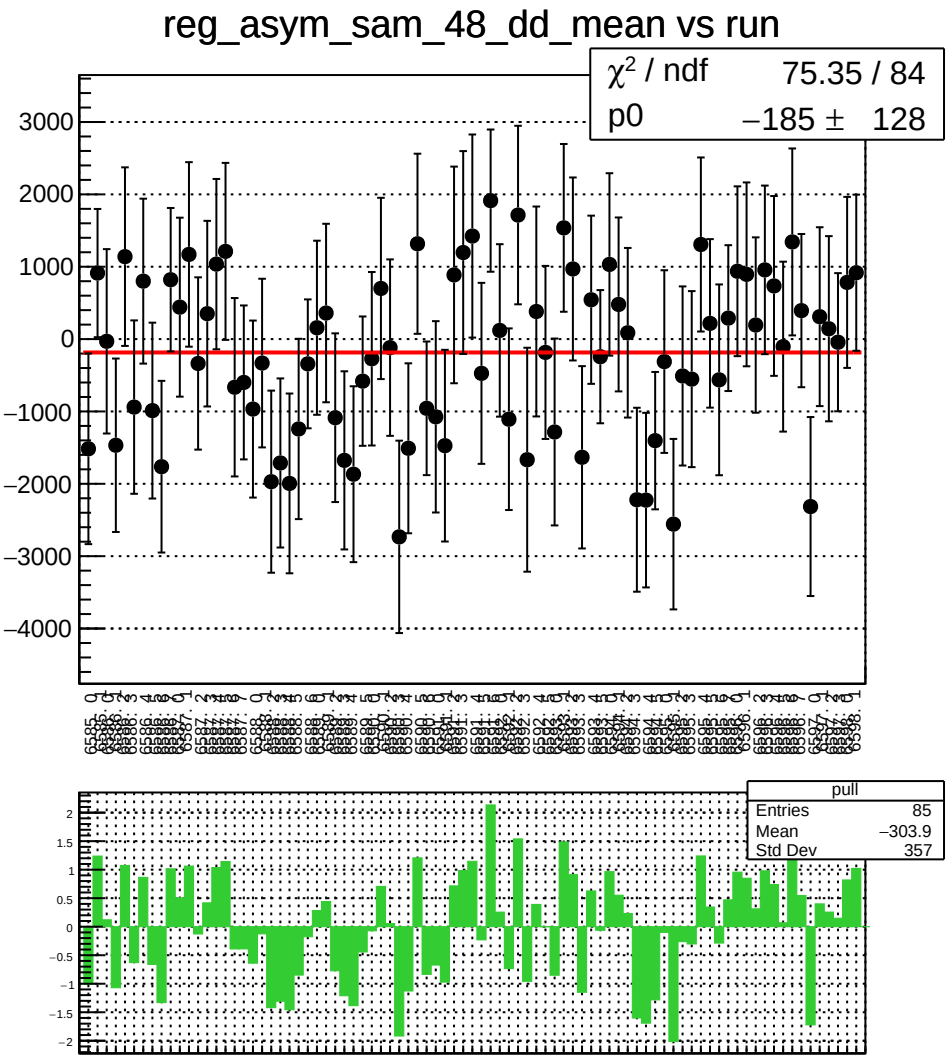

asym_sam_37_dd_correction_mean vs run
χ² / ndf 112 / 84
p0 −110.6 ± 356.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 3.9e+04
Std Dev 3.892e+04
pull1D
Entries 85
Mean 4.497e−05
Std Dev 1.148

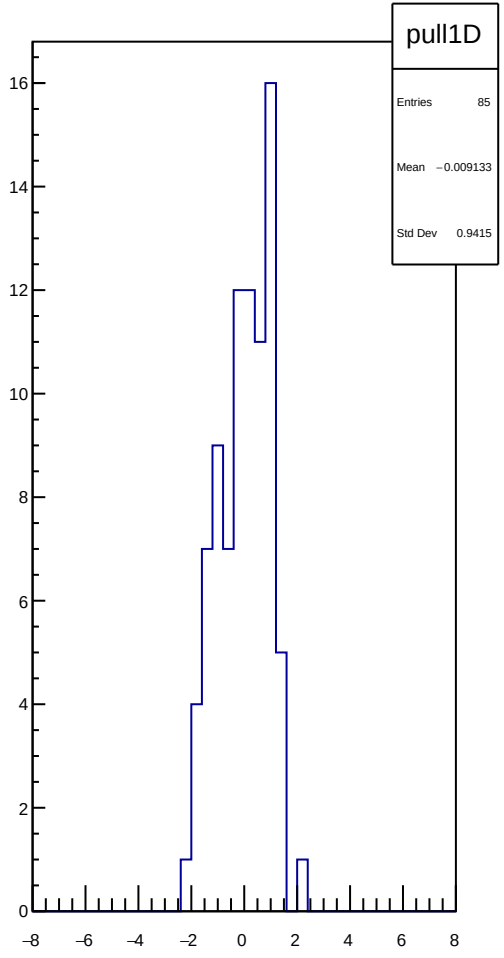
asym_sam_37_dd_correction_rms vs run



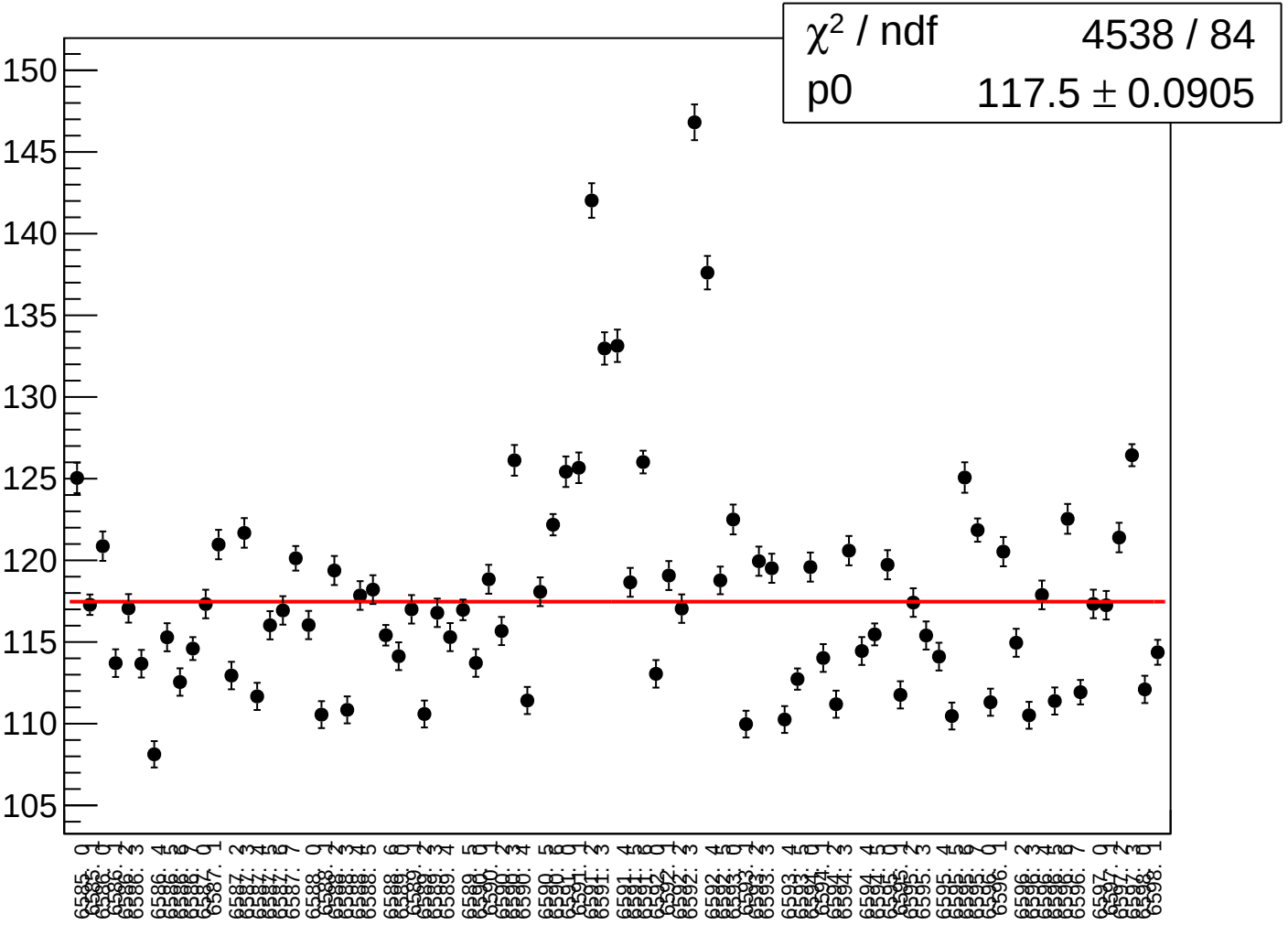

asym_sam_37_dd_mean vs run
χ² / ndf 110.8 / 84
p0 188.6 ± 362.4
pull
Entries 85
Mean 442.5
Std Dev 345.3
pull1D
Entries 85
Mean −0.002431
Std Dev 1.142

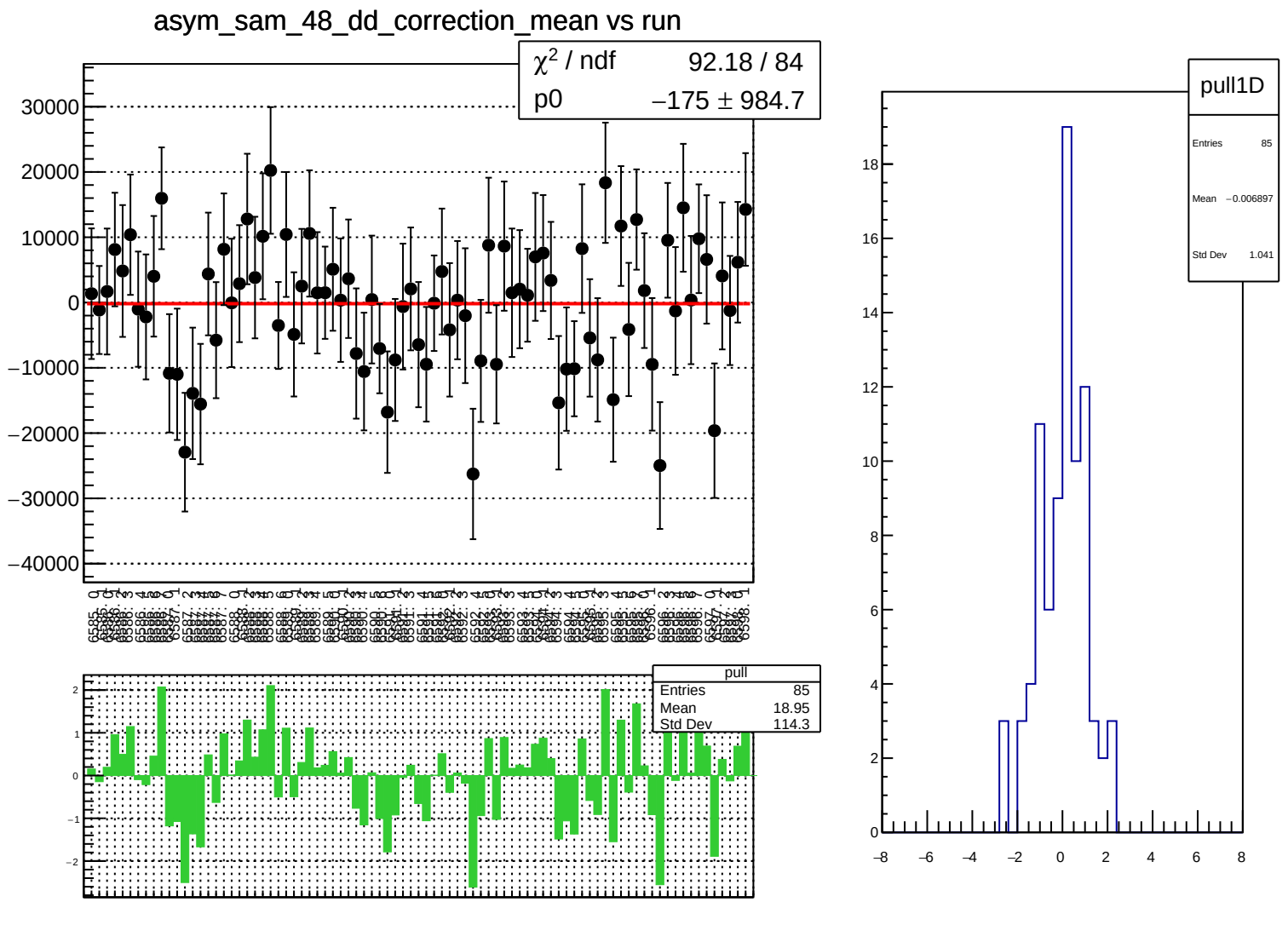

asym_sam_37_dd_rms vs run
χ^2 / ndf 2.307e+04 / 84
p0 330.8 ± 0.2562
480
460
440
420
400
380
360
340
320
300
280
260


reg_asym_sam_48_dd_mean vs run
χ² / ndf 75.35 / 84
p0 −185 ± 128
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 85
Mean −303.9
Std Dev 357
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

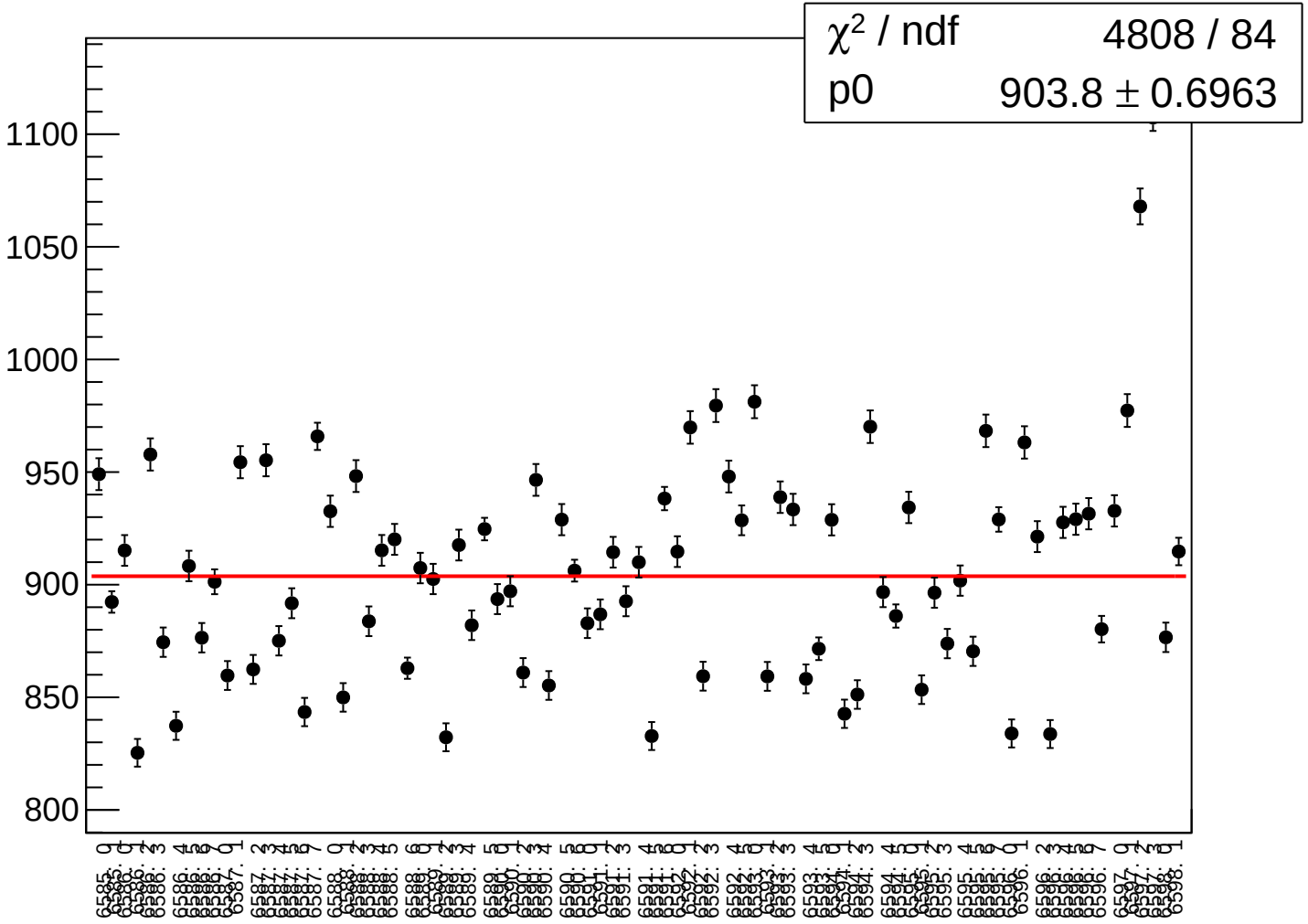

pull1D
Entries 85
Mean −0.009133
Std Dev 0.9415
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

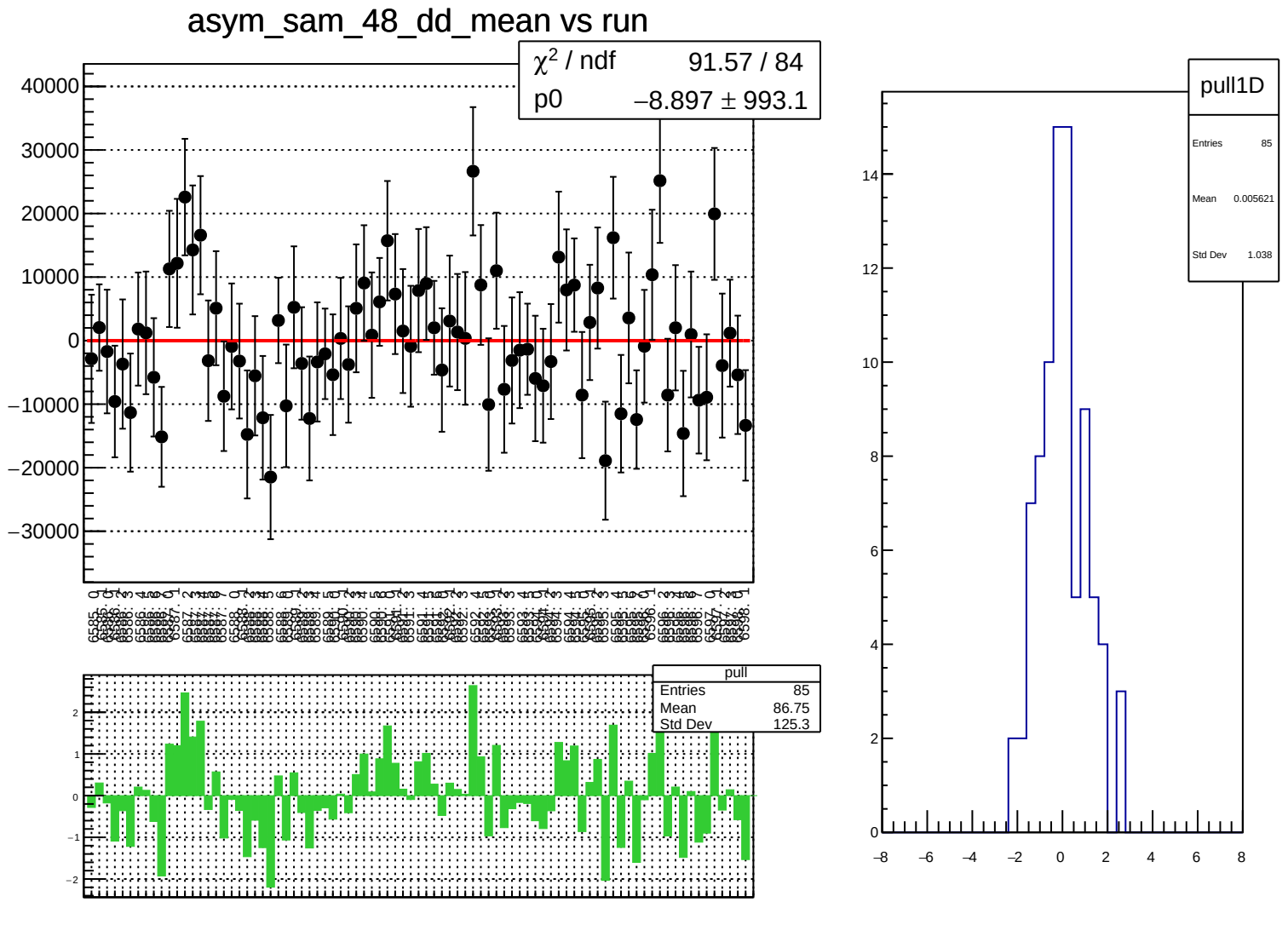
reg_asym_sam_48_dd_rms vs run



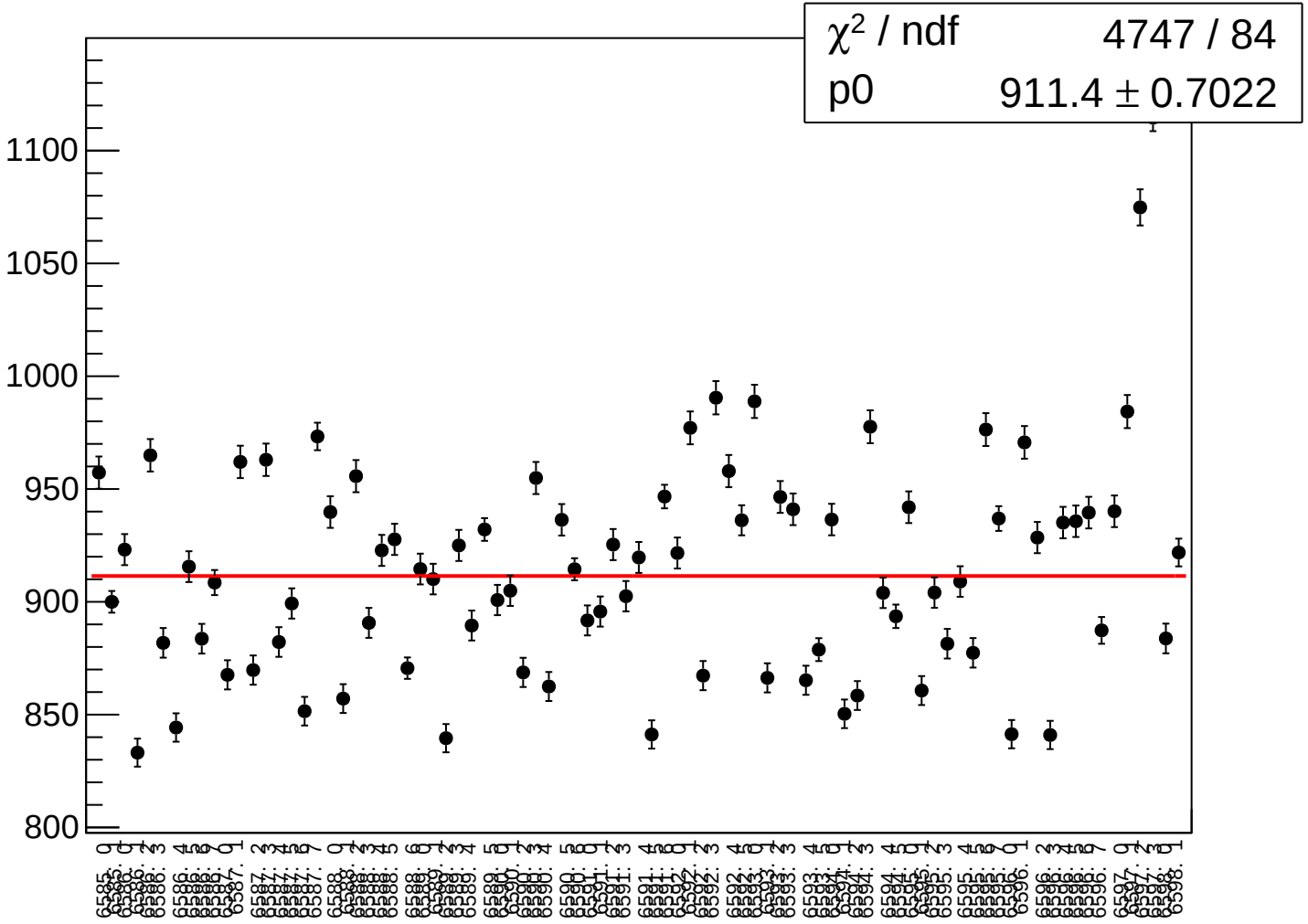

asym_sam_48_dd_correction_mean vs run
χ^2 / ndf 92.18 / 84
p0 −175 ± 984.7
pull
Entries 85
Mean 18.95
Std Dev 114.3
pull1D
Entries 85
Mean −0.006897
Std Dev 1.041

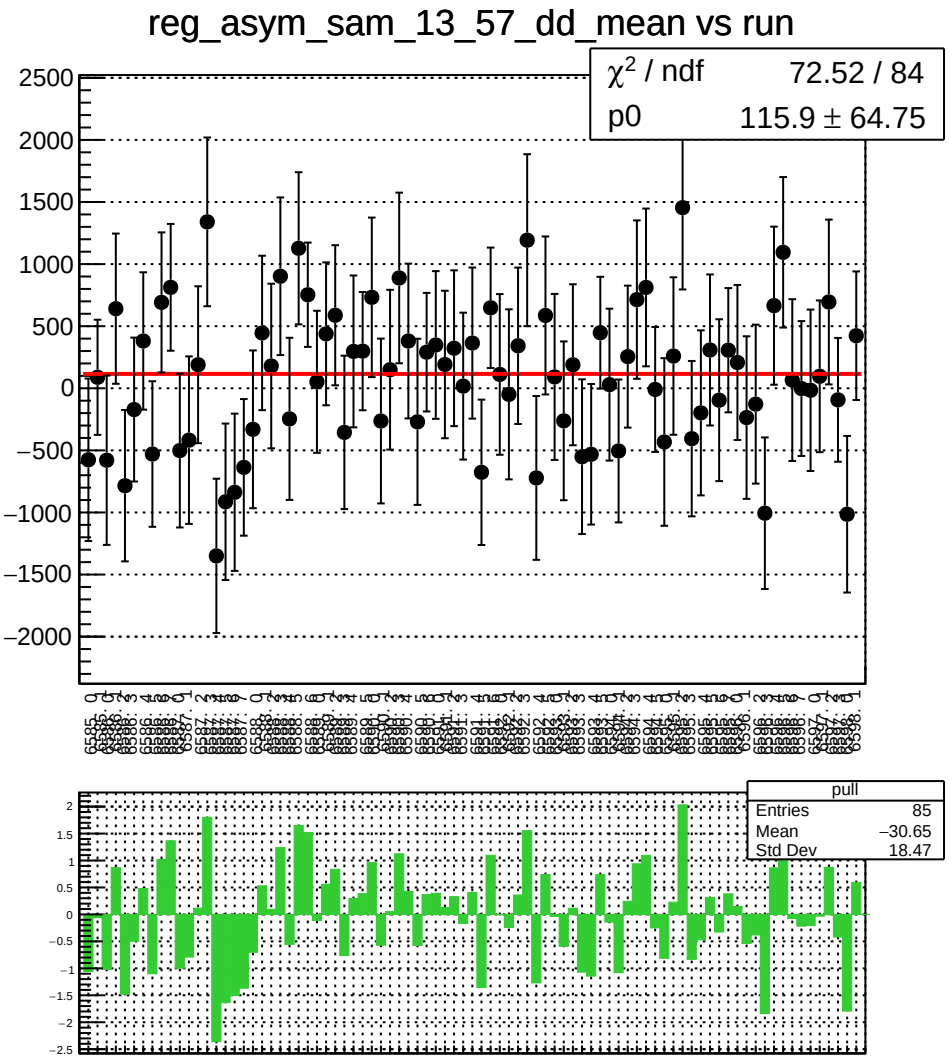
asym_sam_48_dd_correction_rms vs run

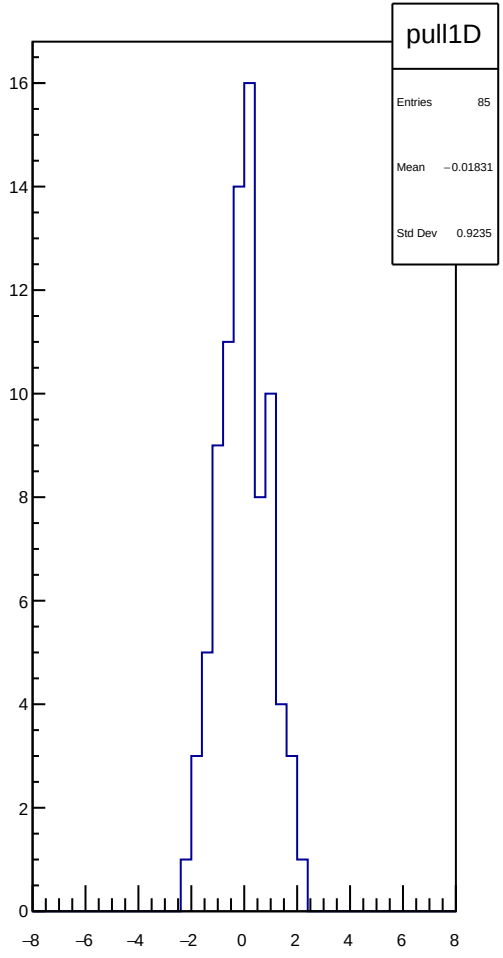



asym_sam_48_dd_mean vs run
χ^2 / ndf 91.57 / 84
p0 −8.897 ± 993.1
pull
Entries 85
Mean 86.75
Std Dev 125.3
pull1D
Entries 85
Mean 0.005621
Std Dev 1.038

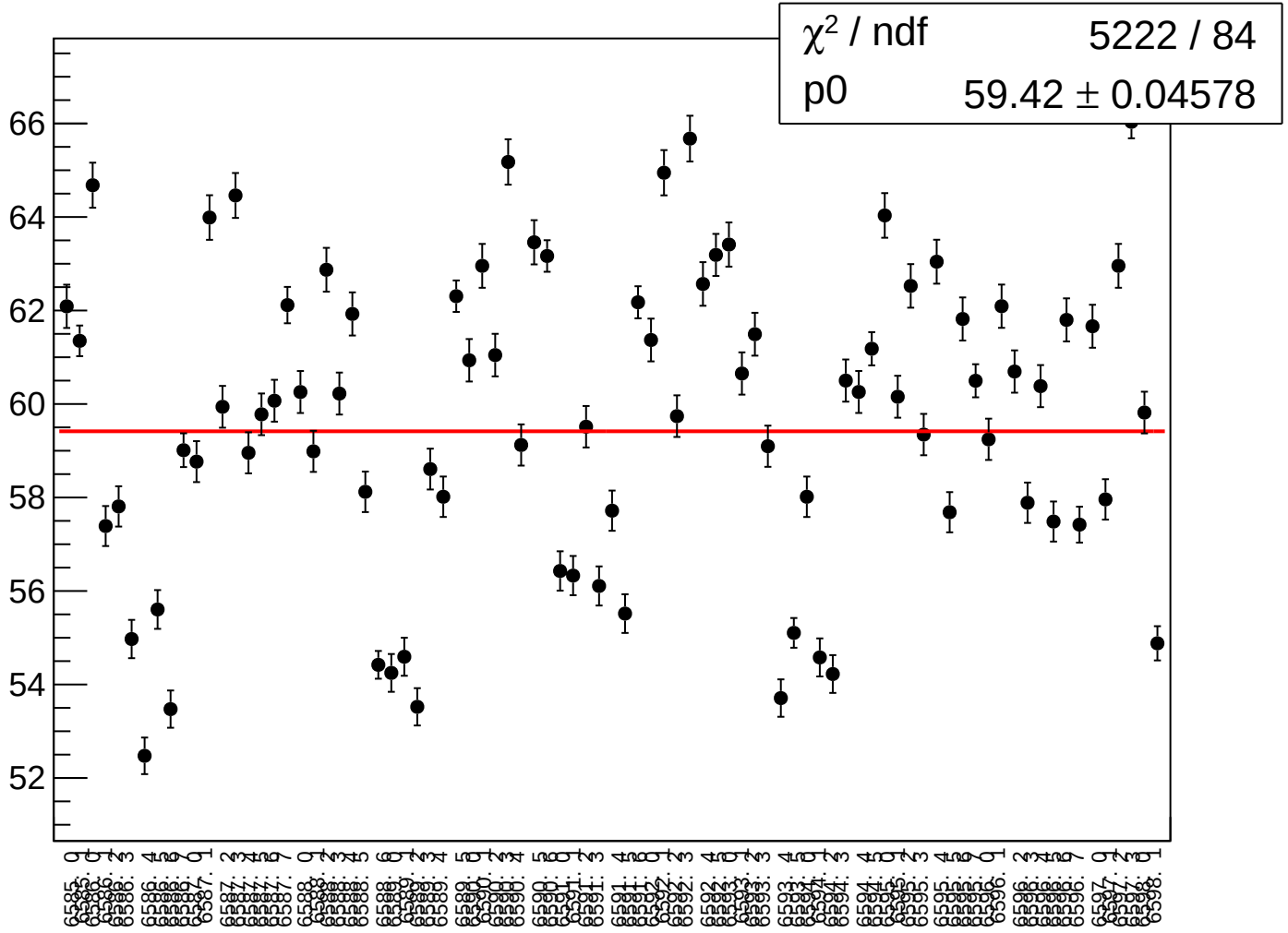
asym_sam_48_dd_rms vs run

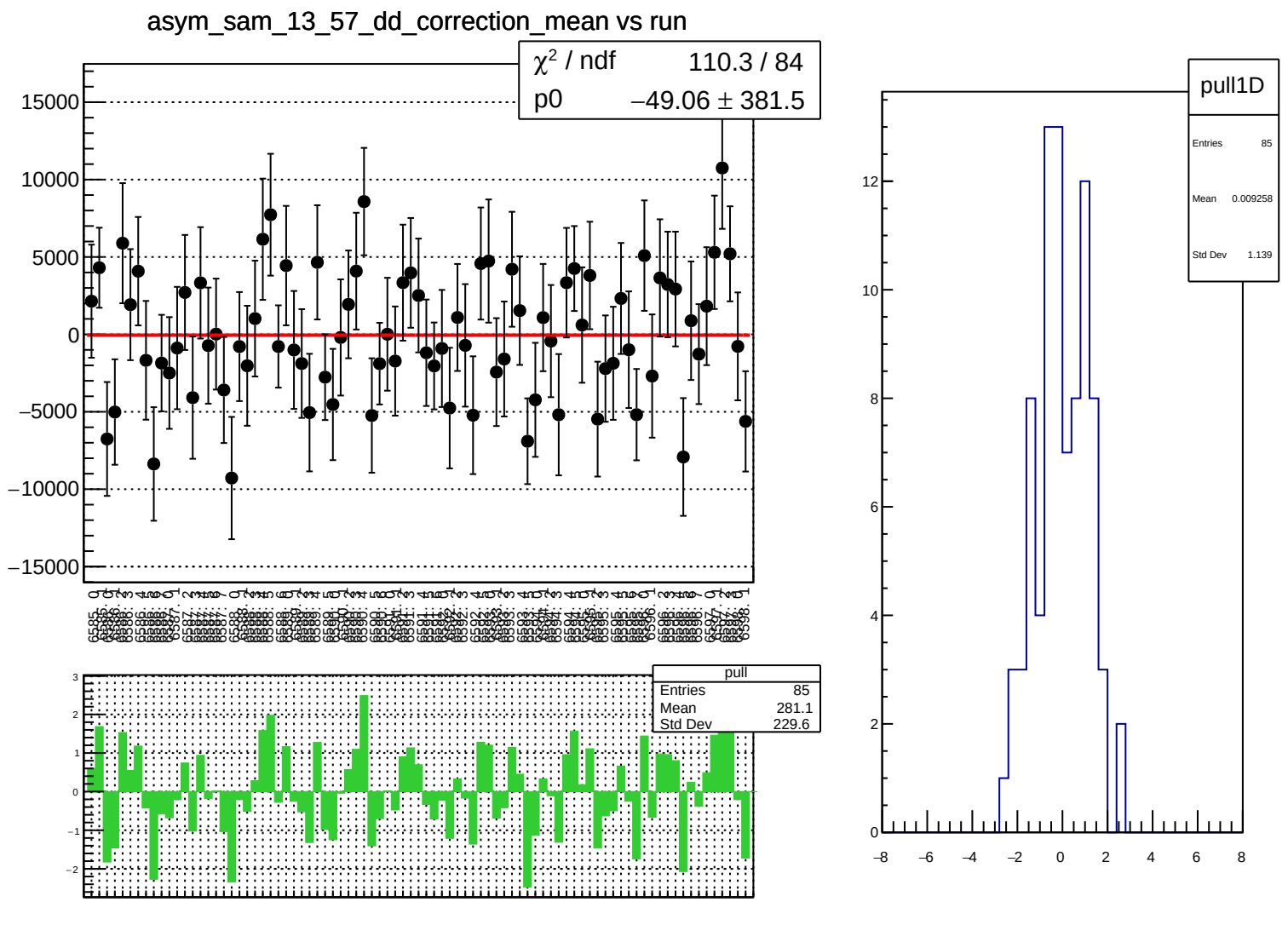



reg_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 72.52 / 84
p0 115.9 ± 64.75
pull
Entries 85
Mean −30.65
Std Dev 18.47

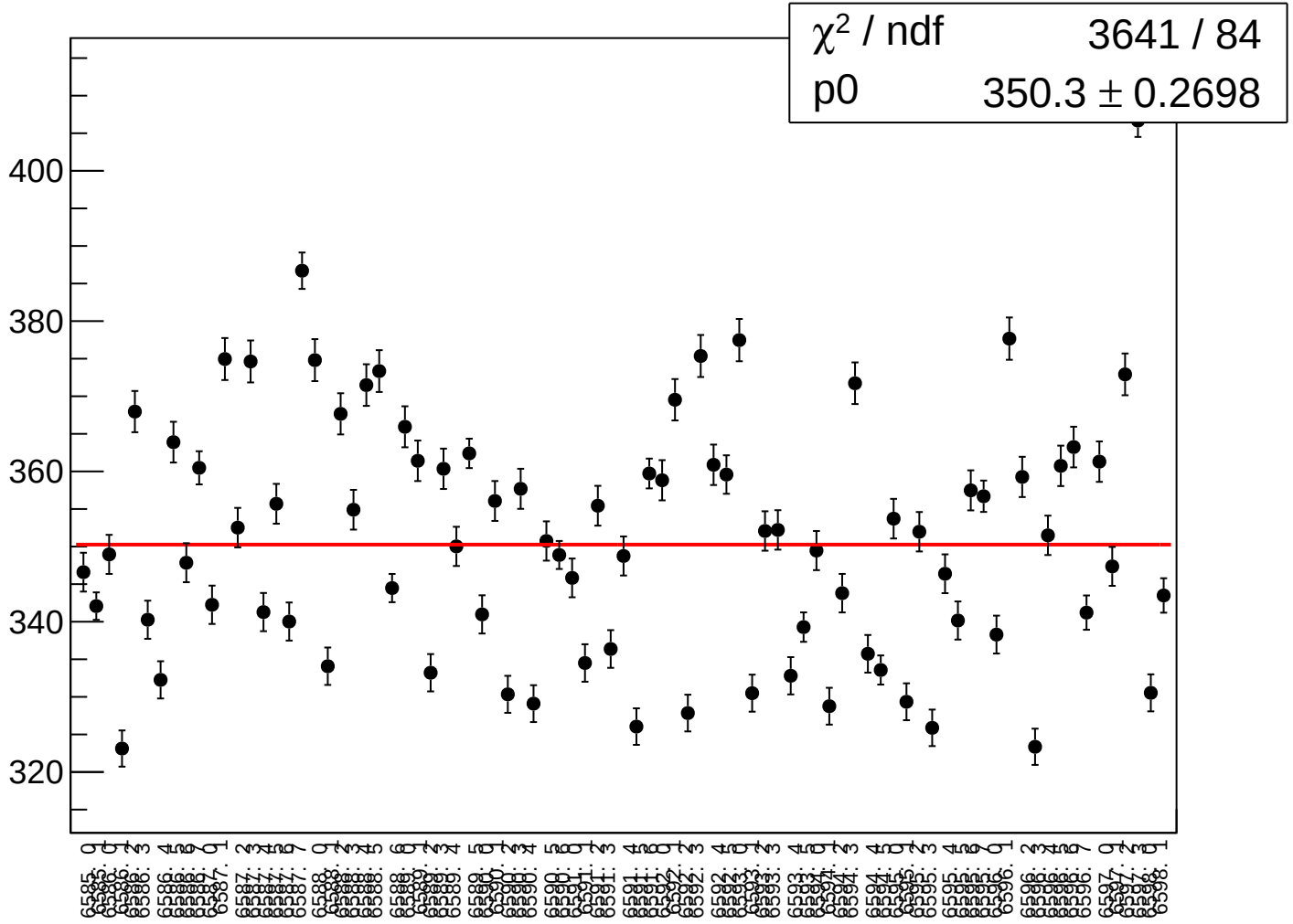

pull1D
Entries 85
Mean −0.01831
Std Dev 0.9235

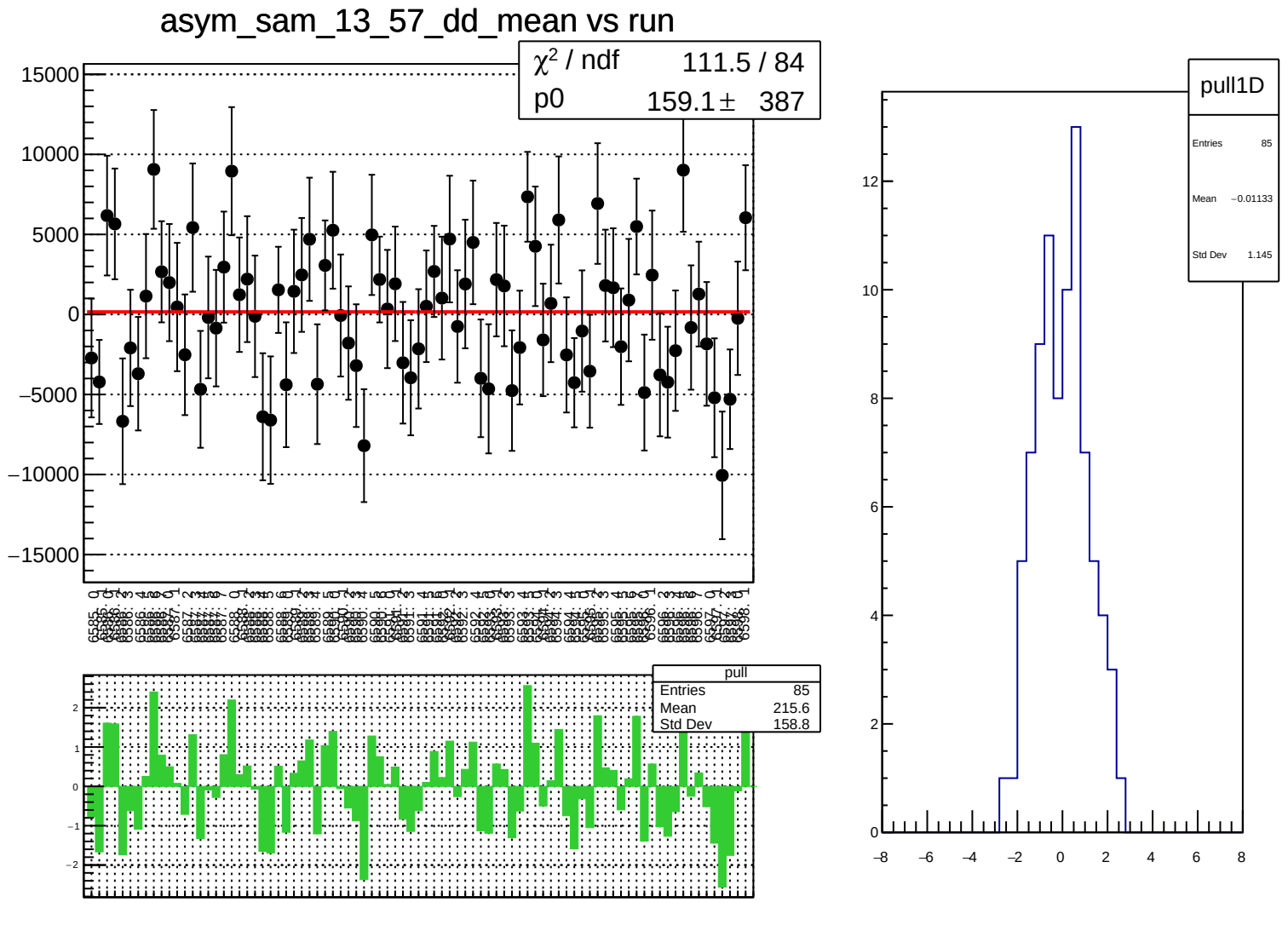
reg_asym_sam_13_57_dd_rms vs run



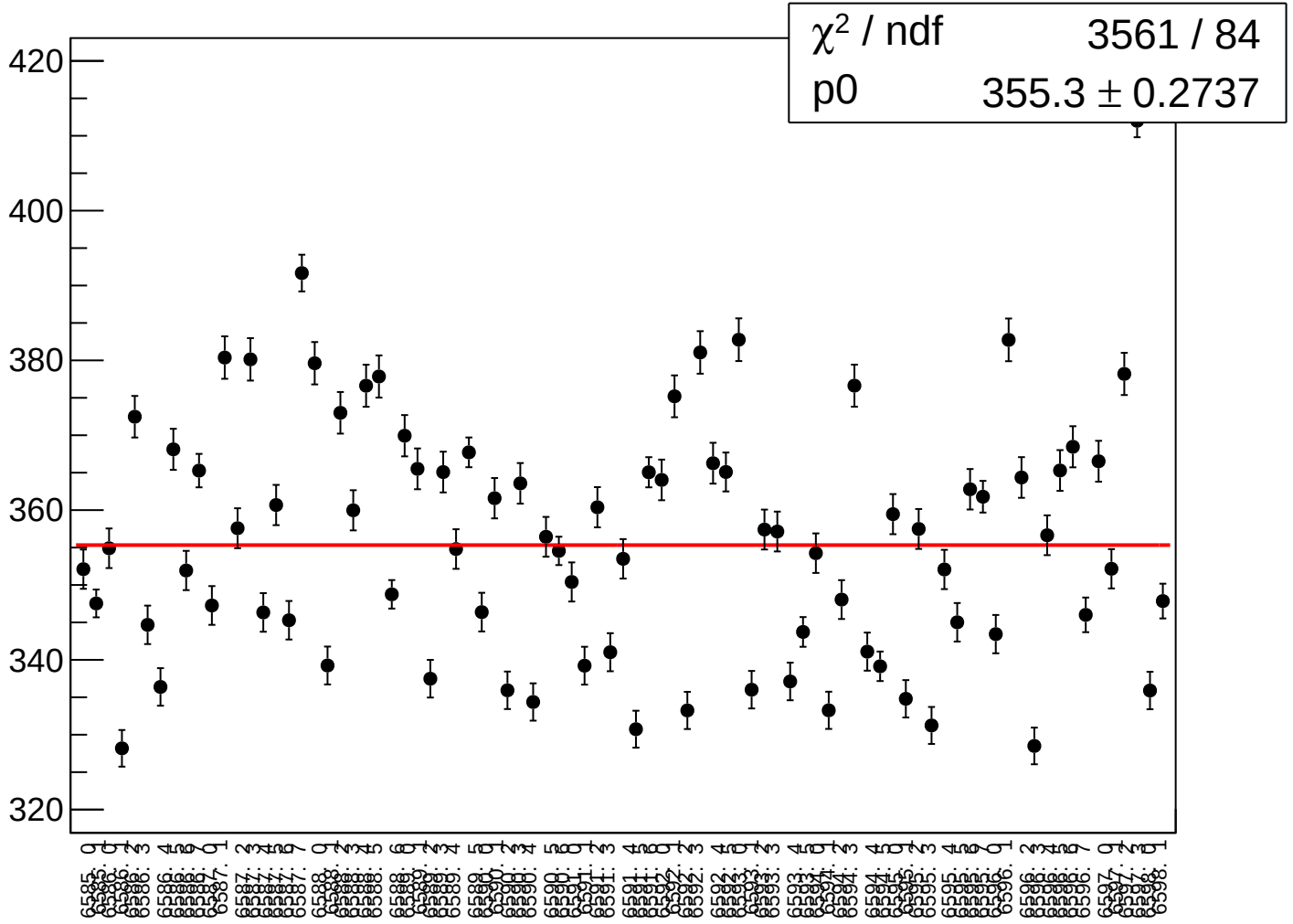

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 110.3 / 84
p0 −49.06 ± 381.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 281.1
Std Dev 229.6
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.009258
Std Dev 1.139
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

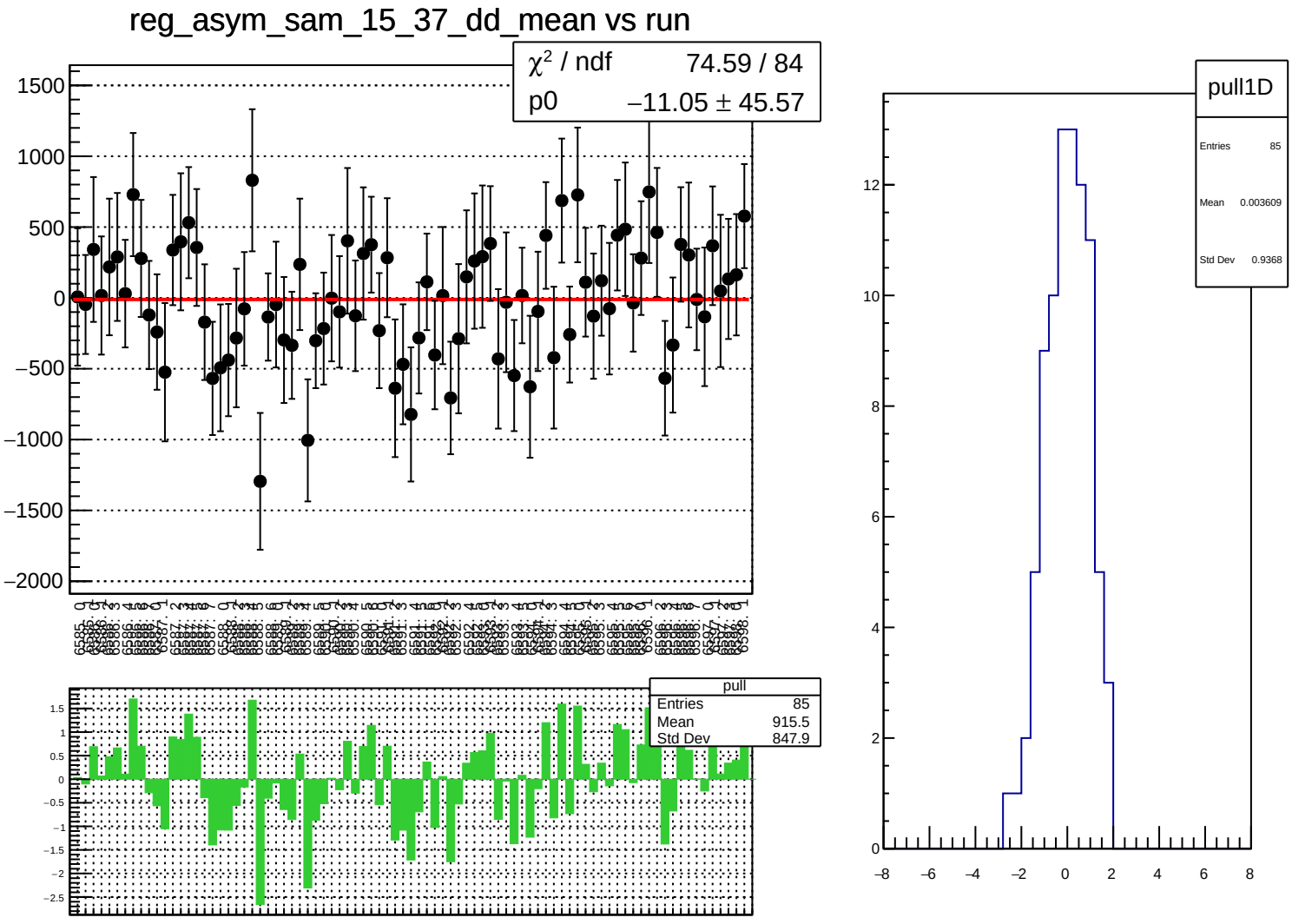
asym_sam_13_57_dd_correction_rms vs run



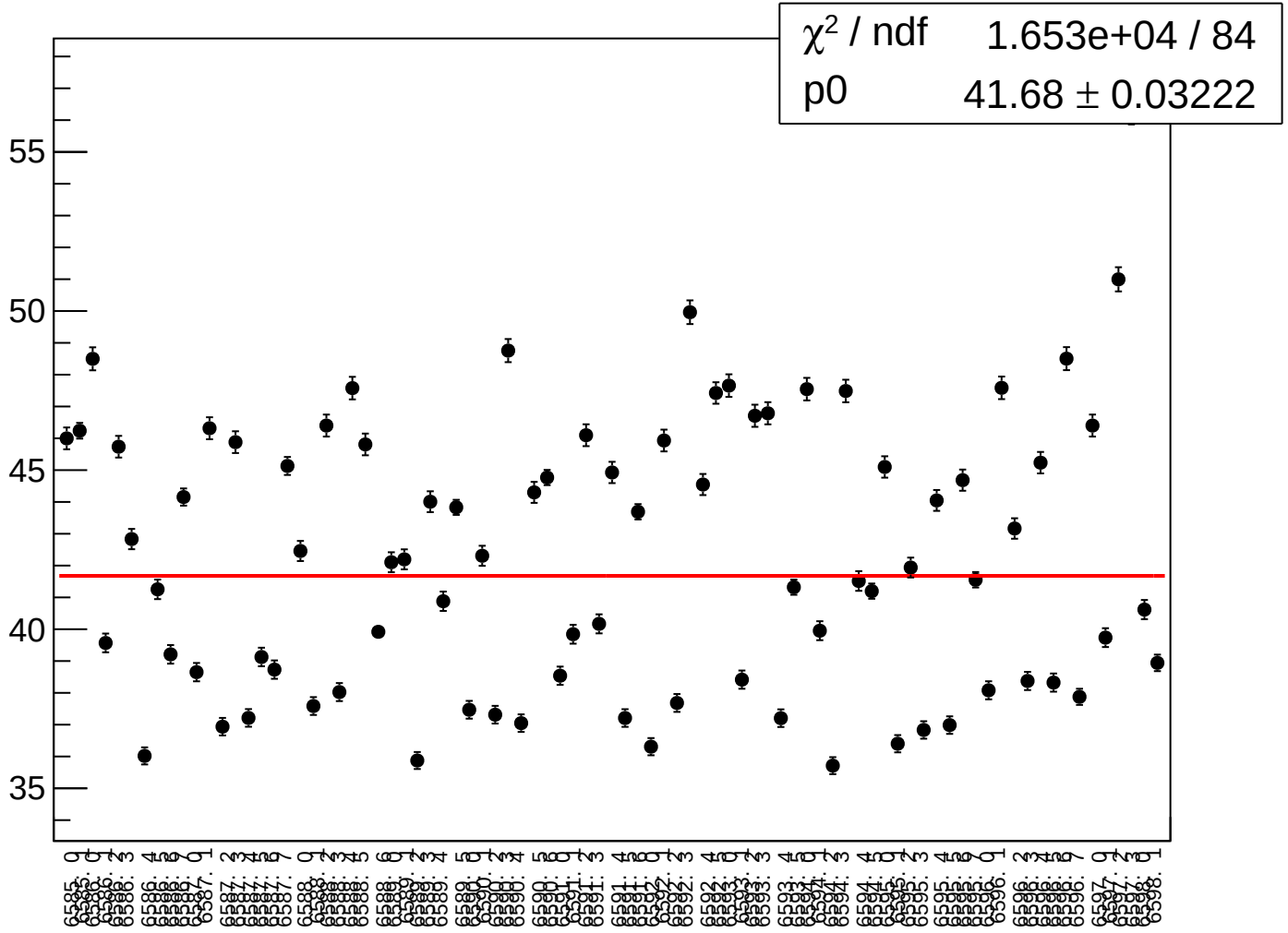

asym_sam_13_57_dd_mean vs run
χ² / ndf 111.5 / 84
p0 159.1 ± 387
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 215.6
Std Dev 158.8
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01133
Std Dev 1.145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

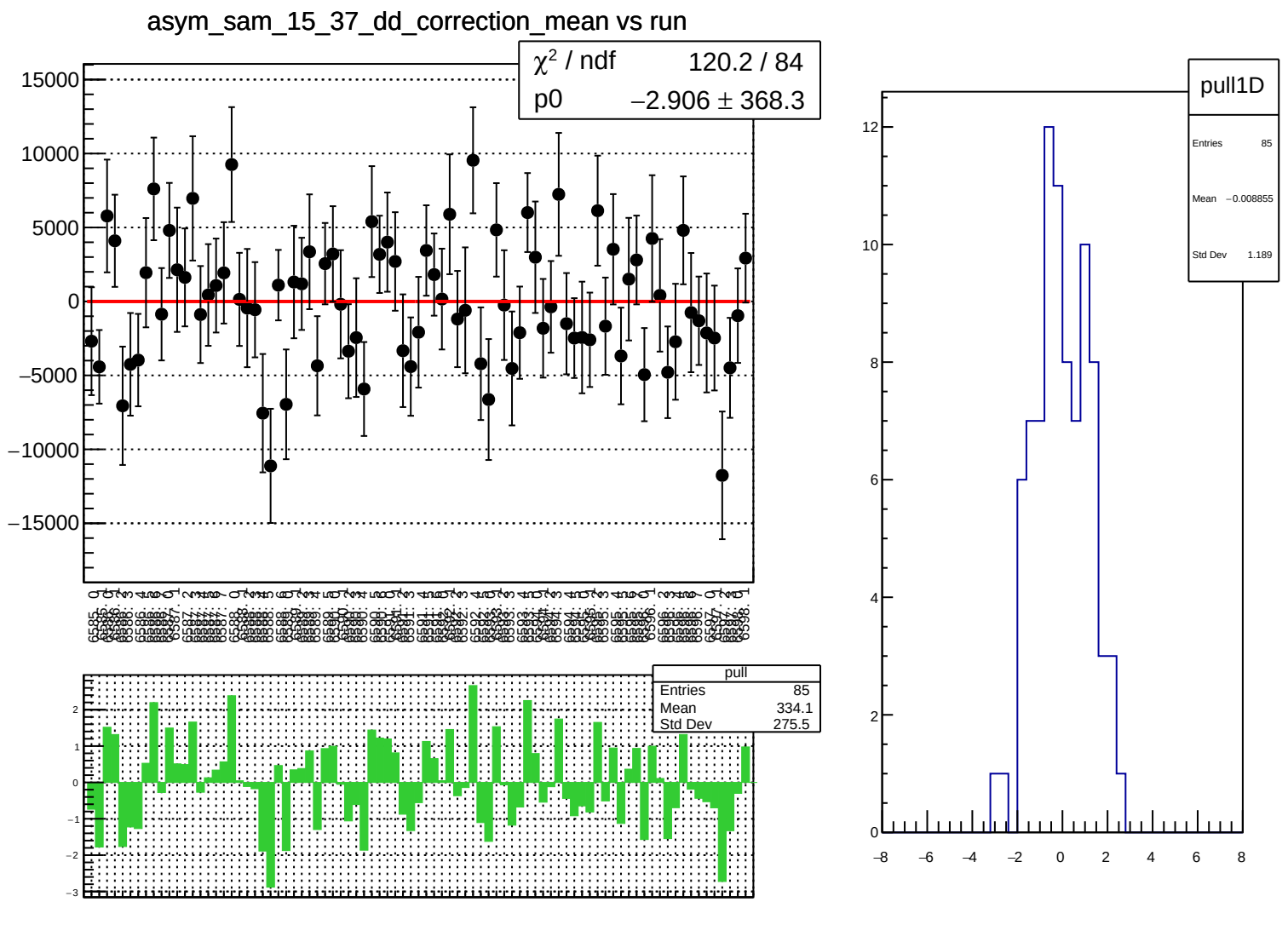
asym_sam_13_57_dd_rms vs run

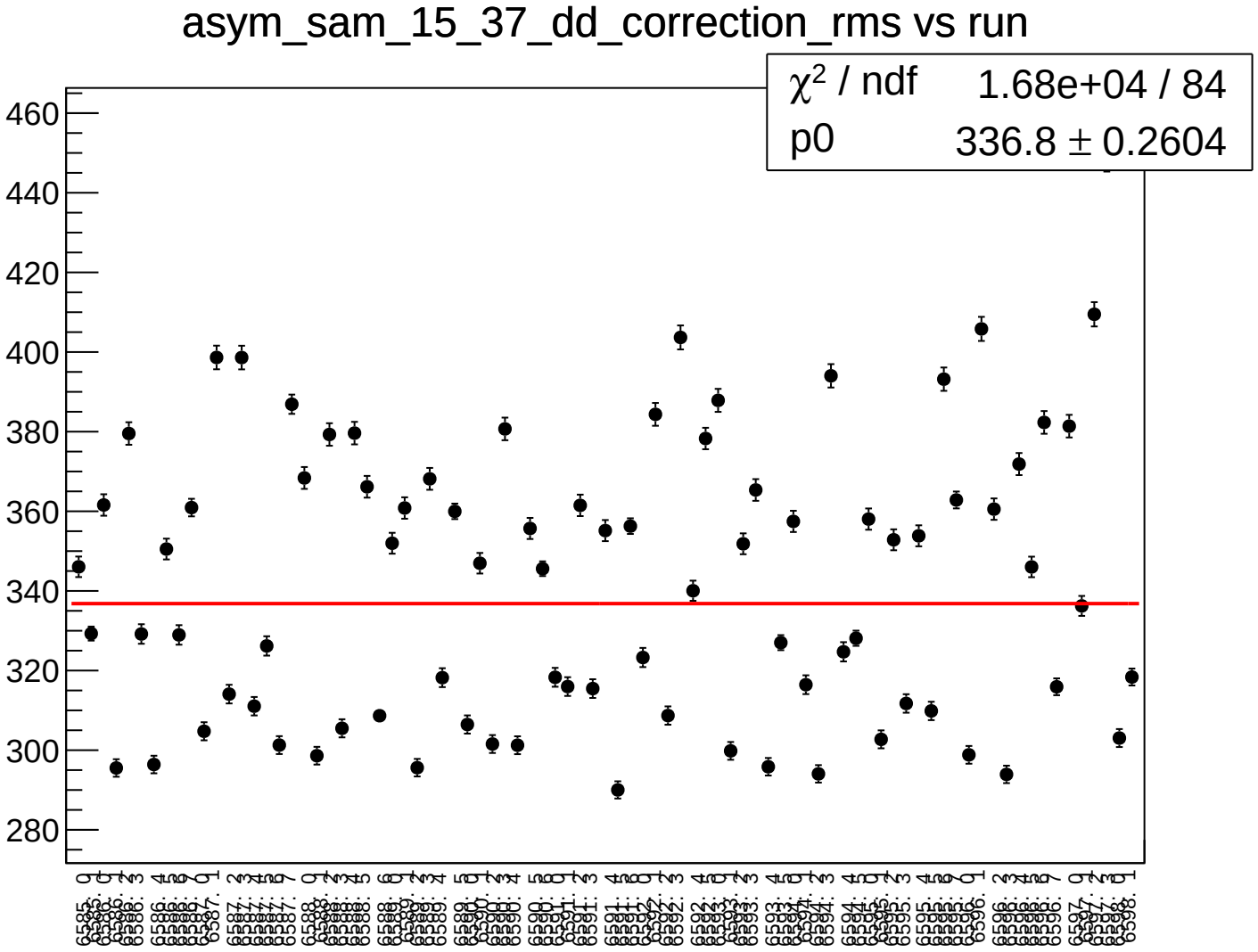


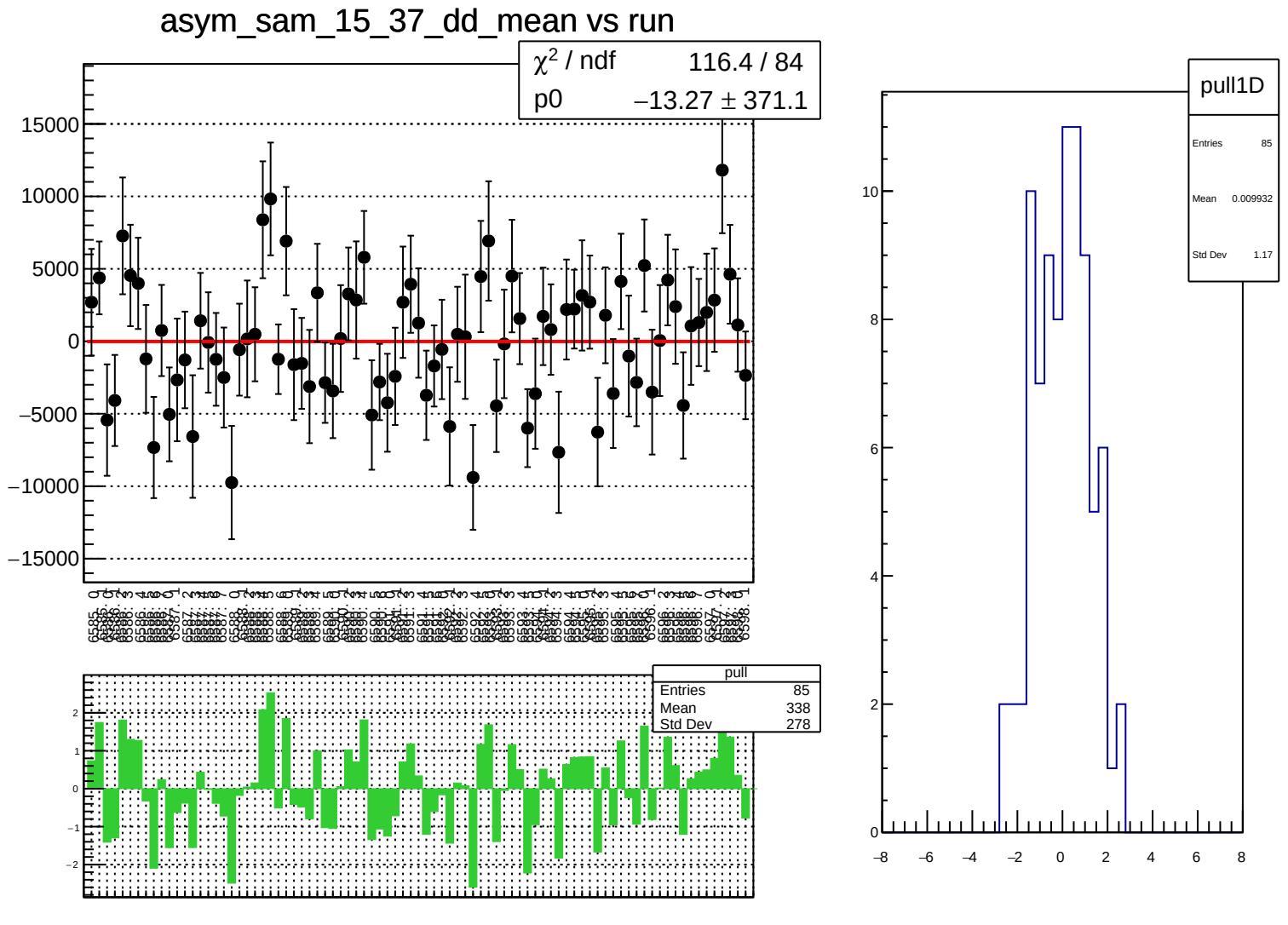

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 74.59 / 84
p0 −11.05 ± 45.57
pull
Entries 85
Mean 915.5
Std Dev 847.9
pull1D
Entries 85
Mean 0.003609
Std Dev 0.9368

reg_asym_sam_15_37_dd_rms vs run

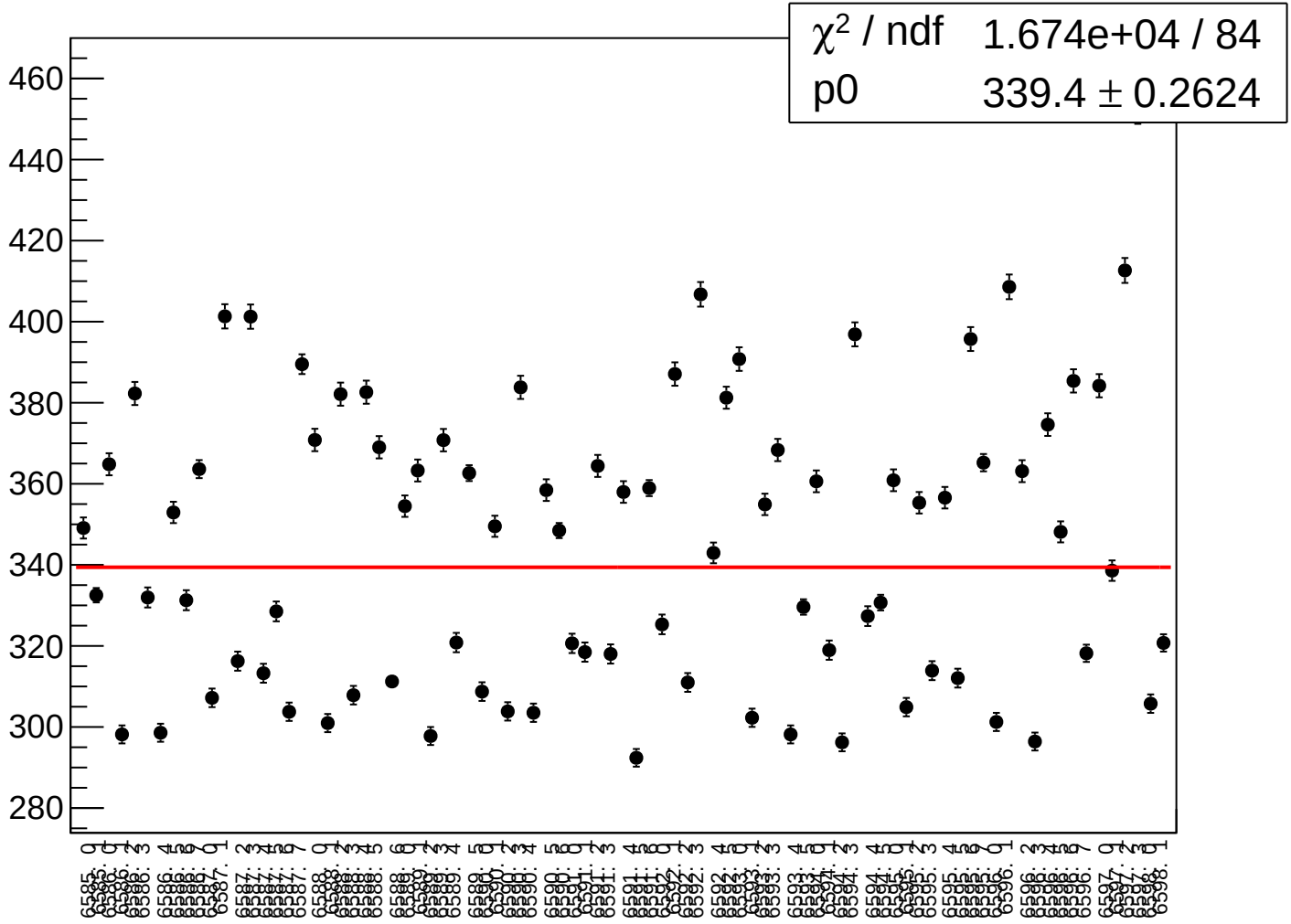


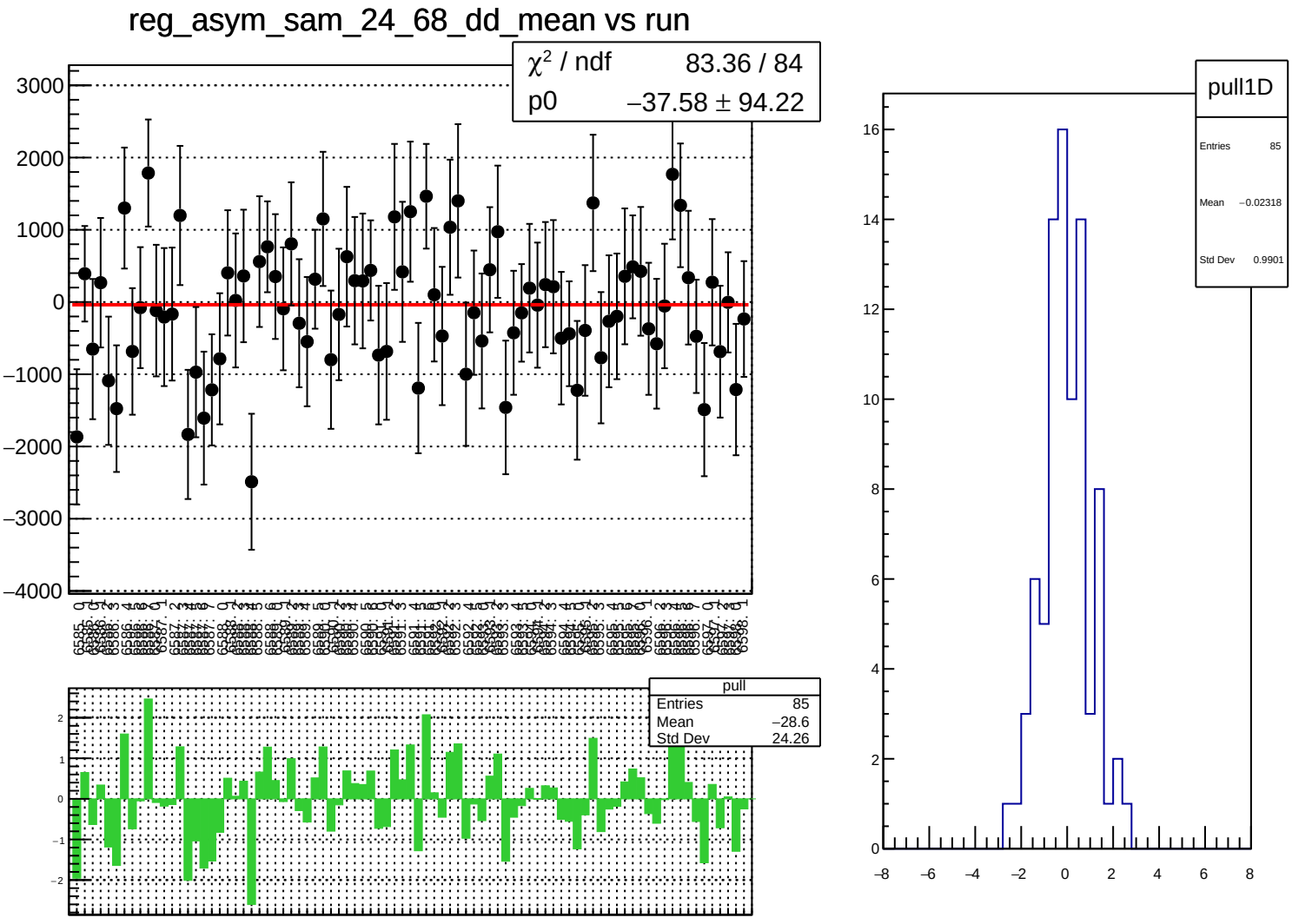

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 120.2 / 84
p0 −2.906 ± 368.3
pull
Entries 85
Mean 334.1
Std Dev 275.5
pull1D
Entries 85
Mean −0.008855
Std Dev 1.189


asym_sam_15_37_dd_correction_rms vs run
χ^2 / ndf 1.68e+04 / 84
p0 336.8 ± 0.2604
460
440
420
400
380
360
340
320
300
280

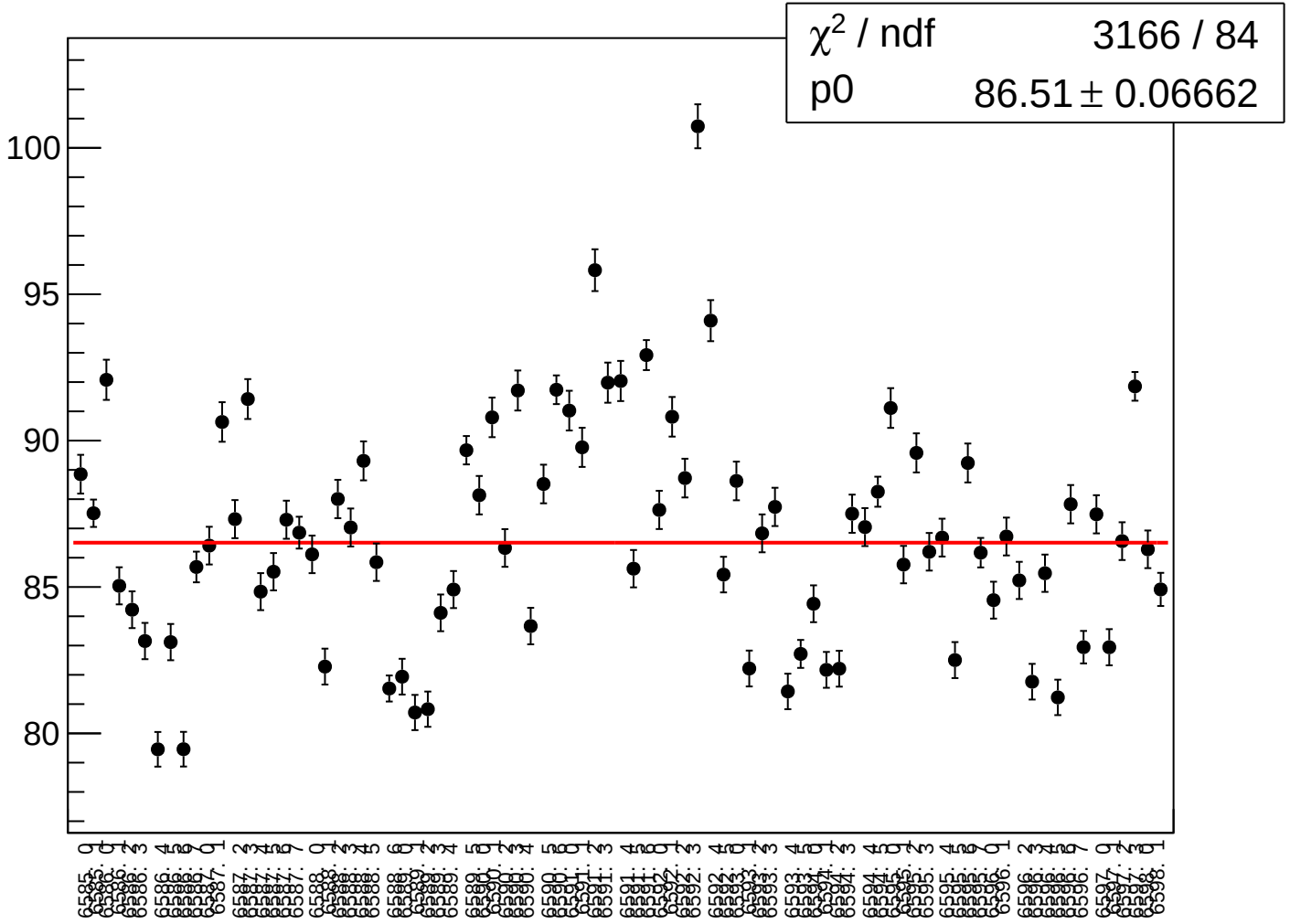

asym_sam_15_37_dd_mean vs run
χ² / ndf 116.4 / 84
p0 −13.27 ± 371.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 338
Std Dev 278
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.009932
Std Dev 1.17
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

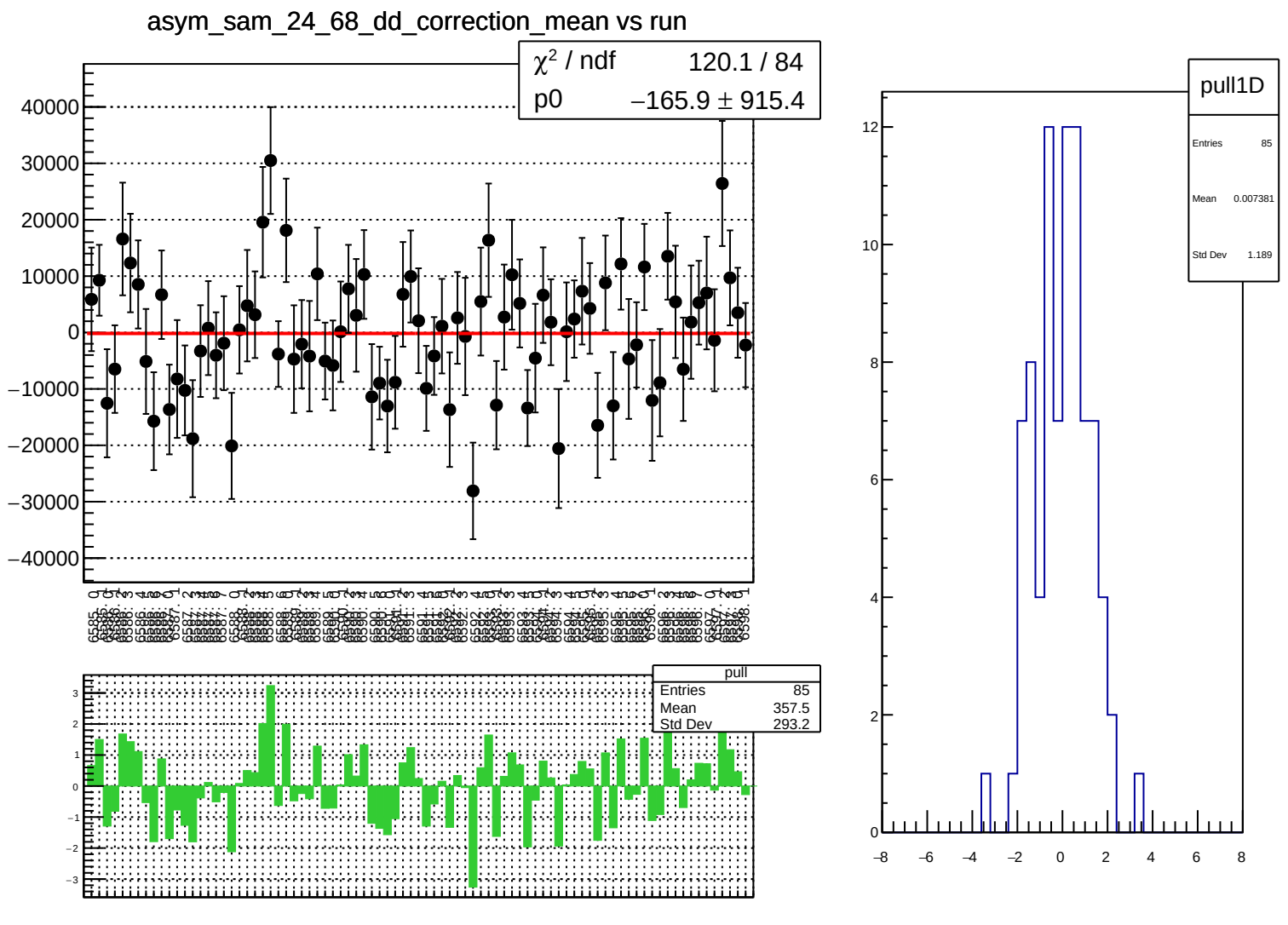
asym_sam_15_37_dd_rms vs run



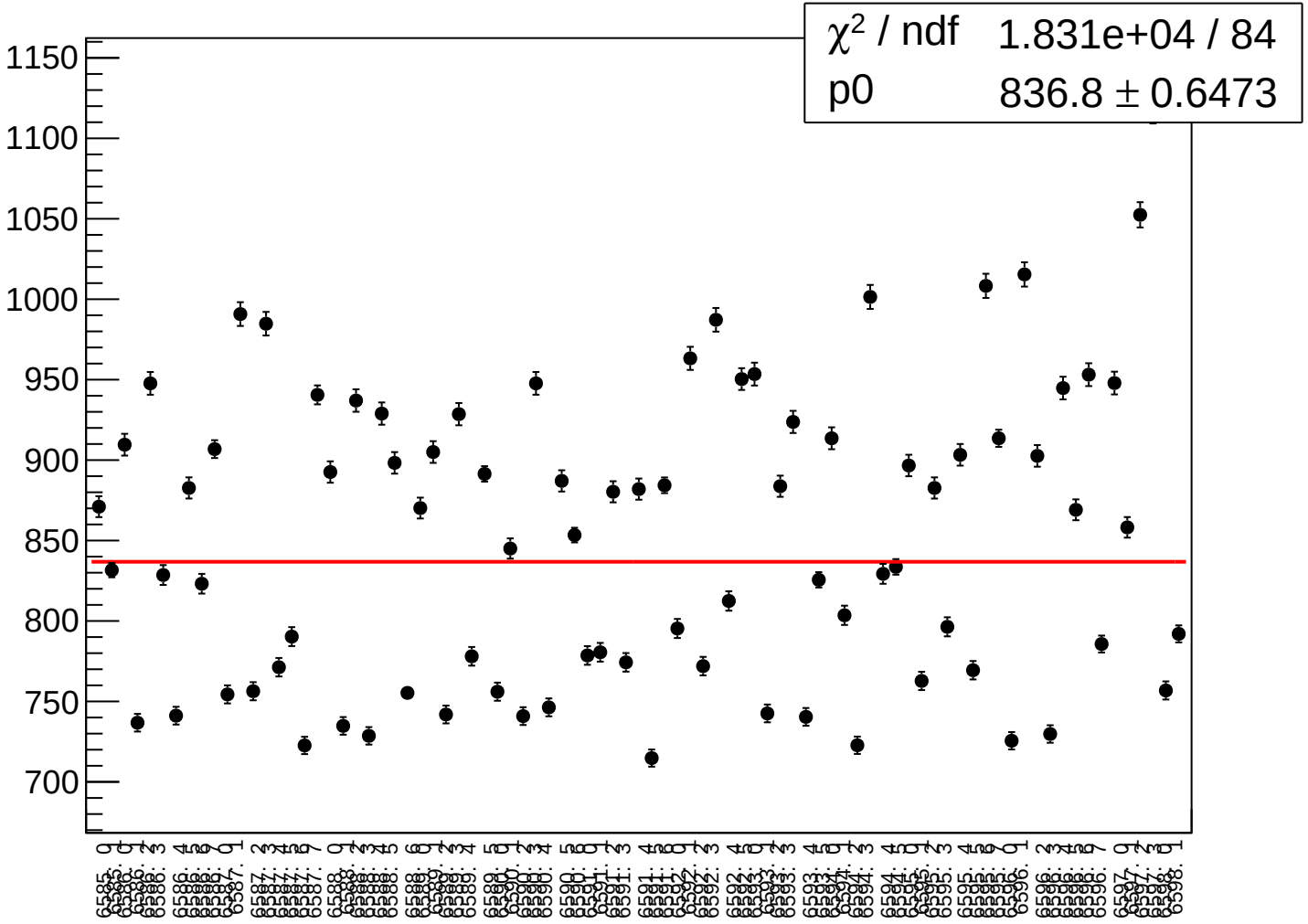

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.36 / 84
p0 −37.58 ± 94.22
pull
Entries 85
Mean −28.6
Std Dev 24.26
pull1D
Entries 85
Mean −0.02318
Std Dev 0.9901

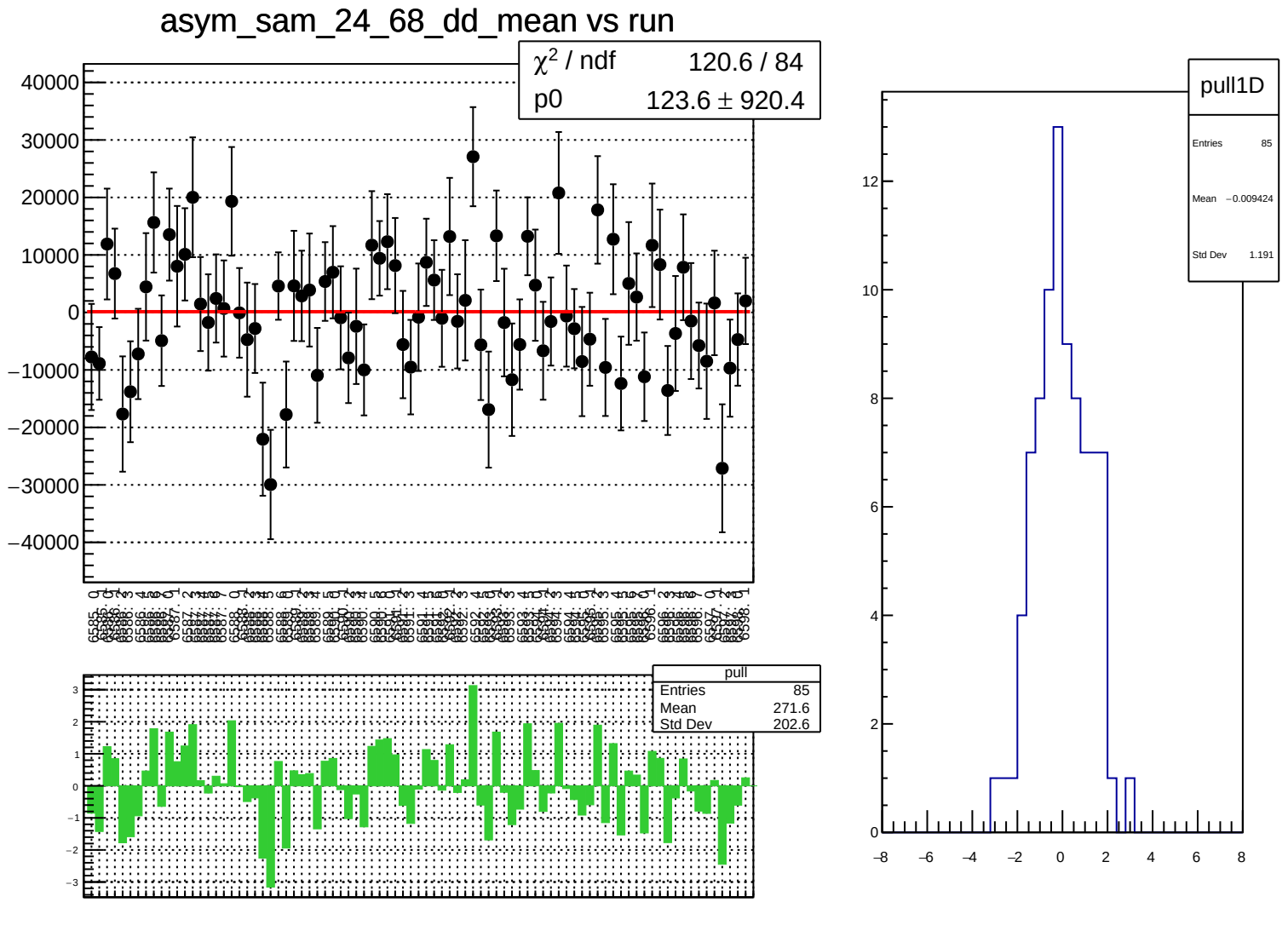
reg_asym_sam_24_68_dd_rms vs run



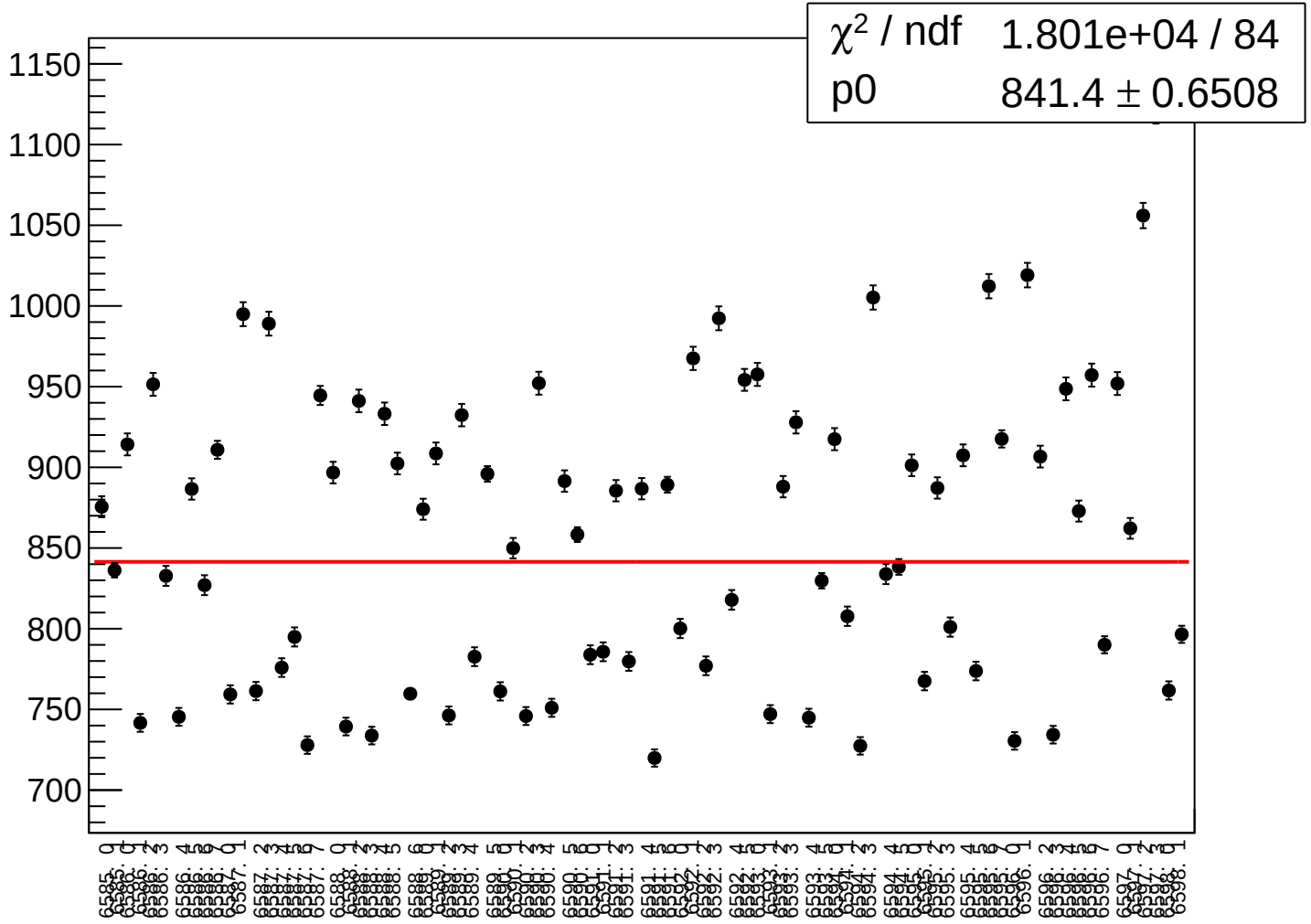

asym_sam_24_68_dd_correction_mean vs run
χ^2 / ndf 120.1 / 84
p0 −165.9 ± 915.4
pull
Entries 85
Mean 357.5
Std Dev 293.2
pull1D
Entries 85
Mean 0.007381
Std Dev 1.189

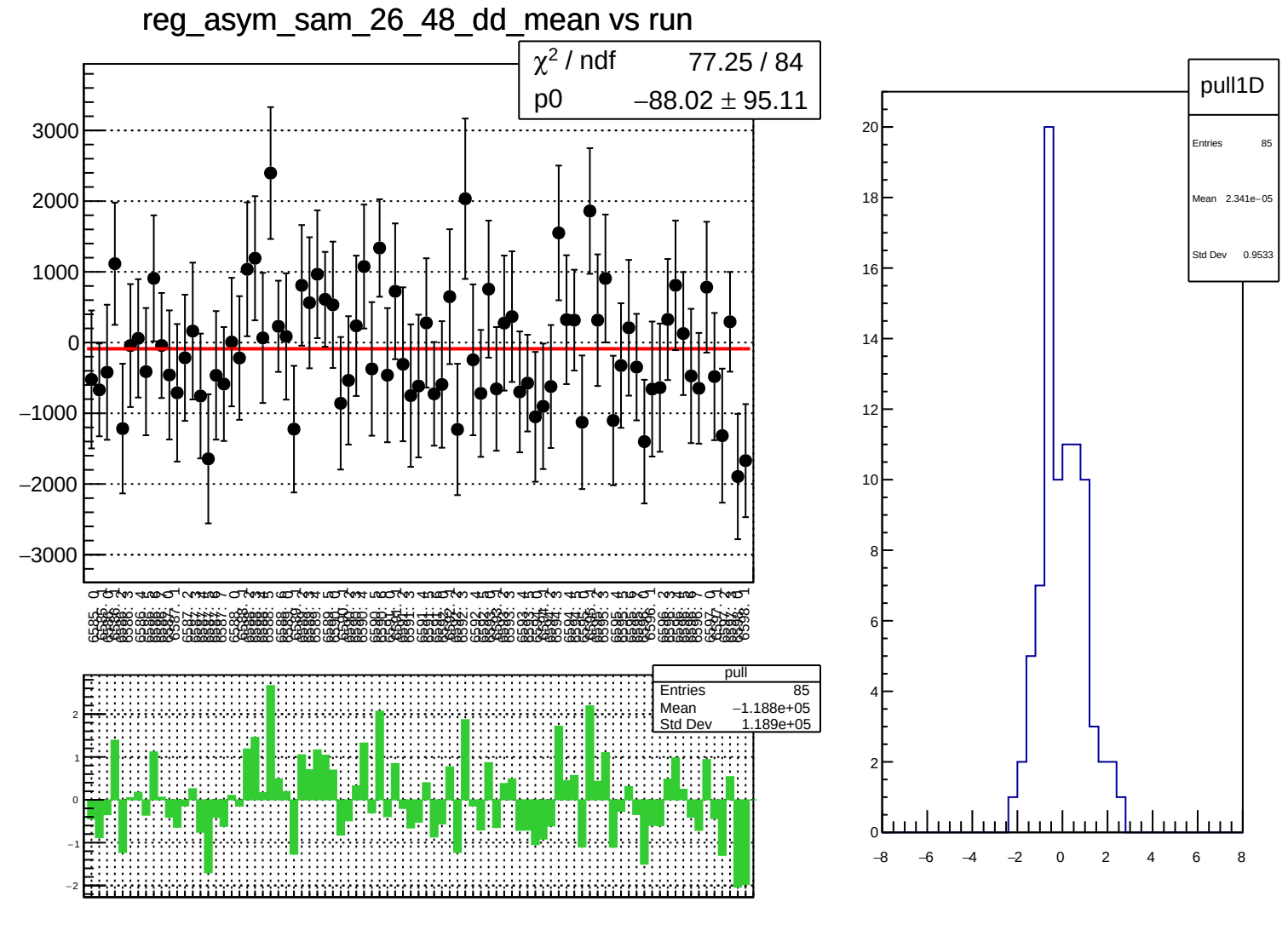
asym_sam_24_68_dd_correction_rms vs run



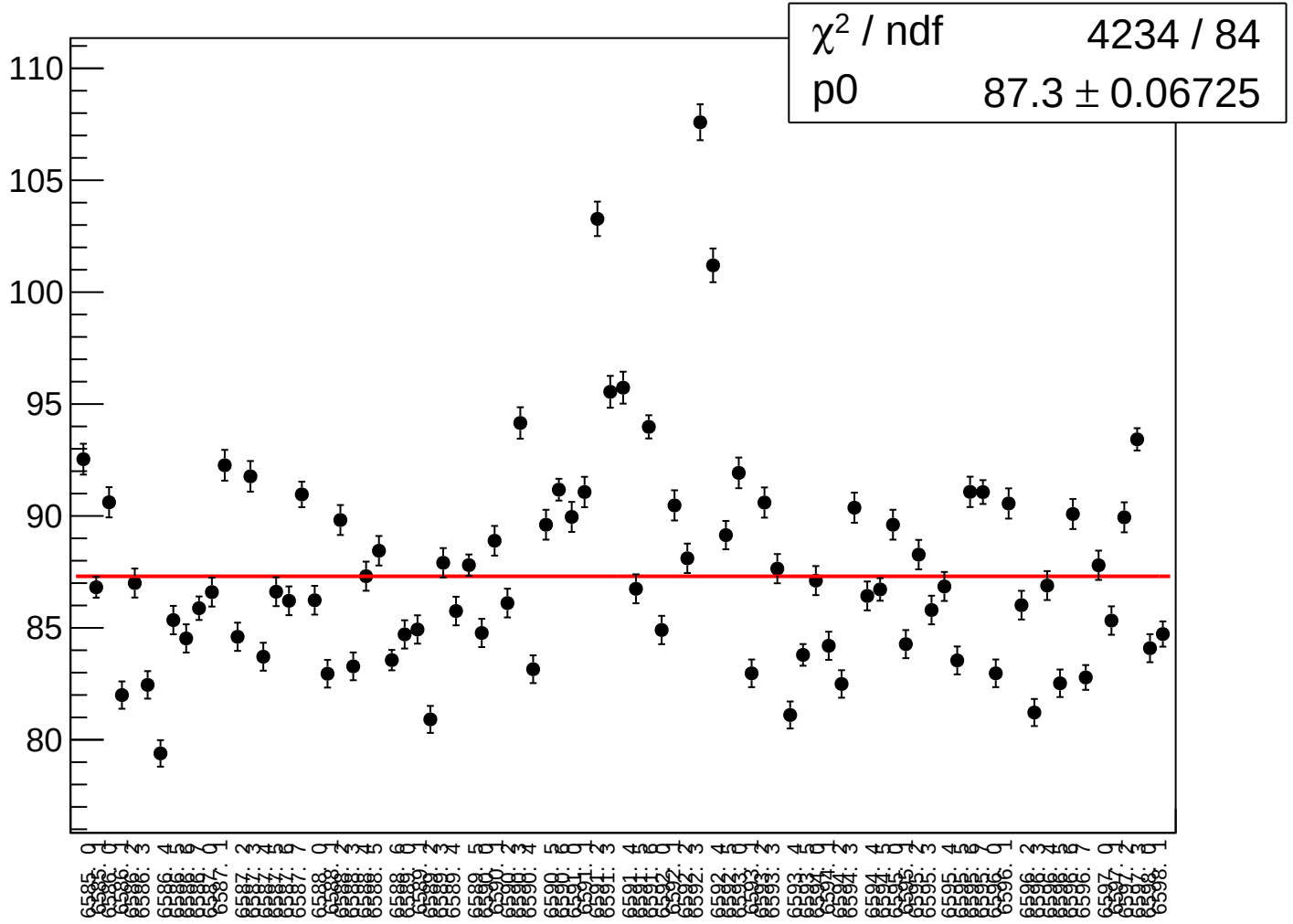

asym_sam_24_68_dd_mean vs run
χ² / ndf 120.6 / 84
p0 123.6 ± 920.4
pull
Entries 85
Mean 271.6
Std Dev 202.6
pull1D
Entries 85
Mean −0.009424
Std Dev 1.191

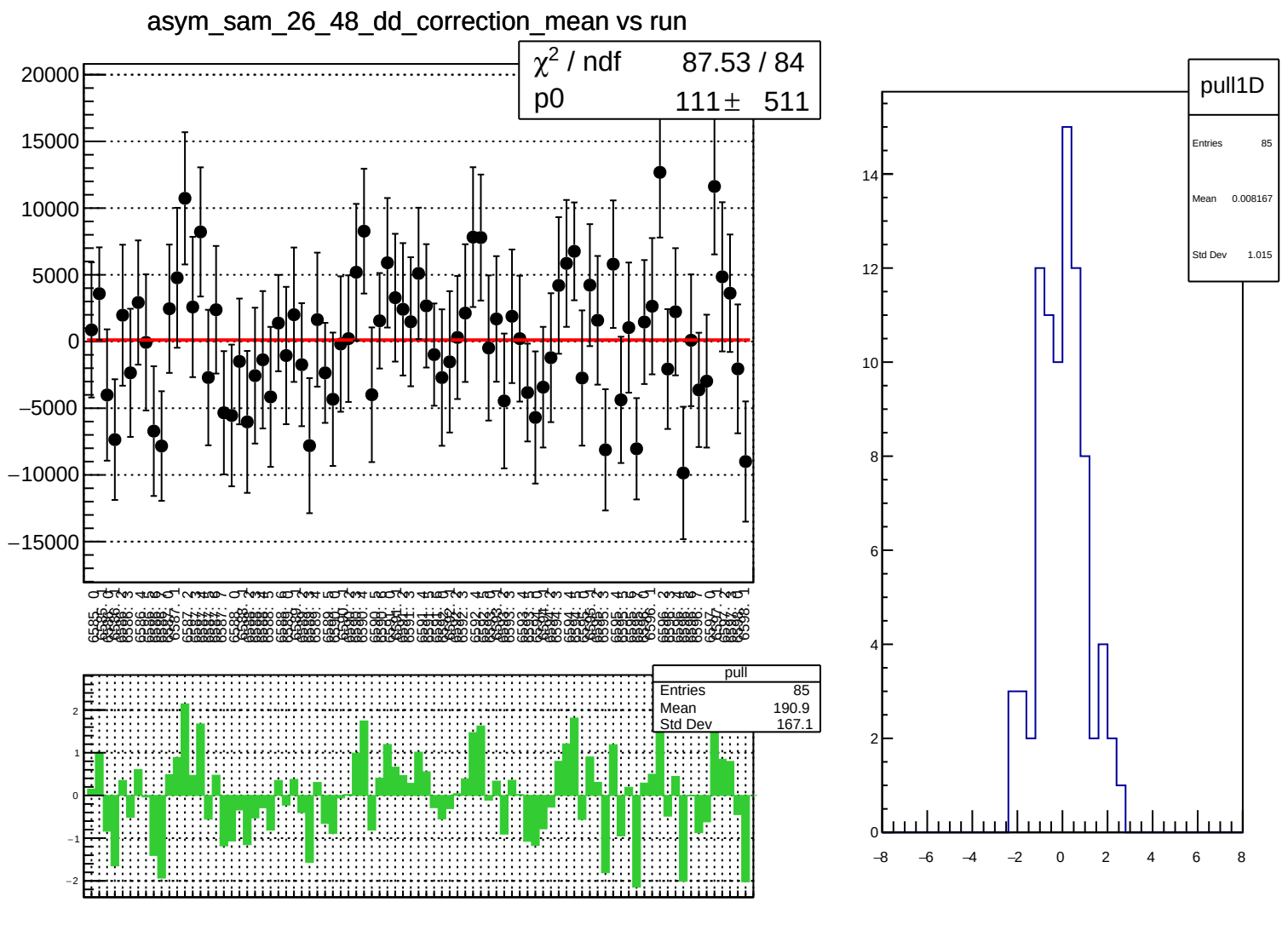
asym_sam_24_68_dd_rms vs run



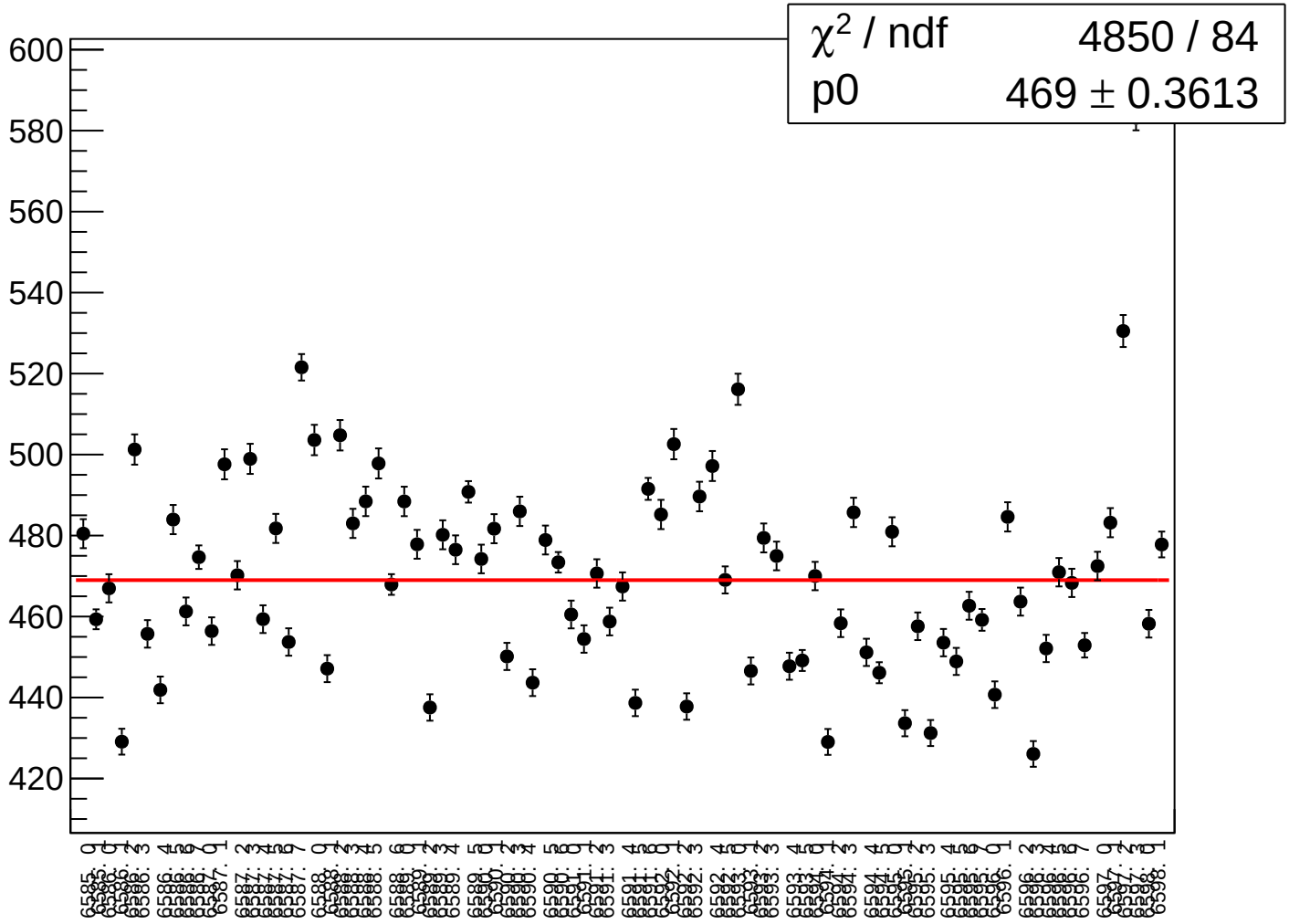

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 77.25 / 84
p0 −88.02 ± 95.11
pull
Entries 85
Mean −1.188e+05
Std Dev 1.189e+05
pull1D
Entries 85
Mean 2.341e−05
Std Dev 0.9533

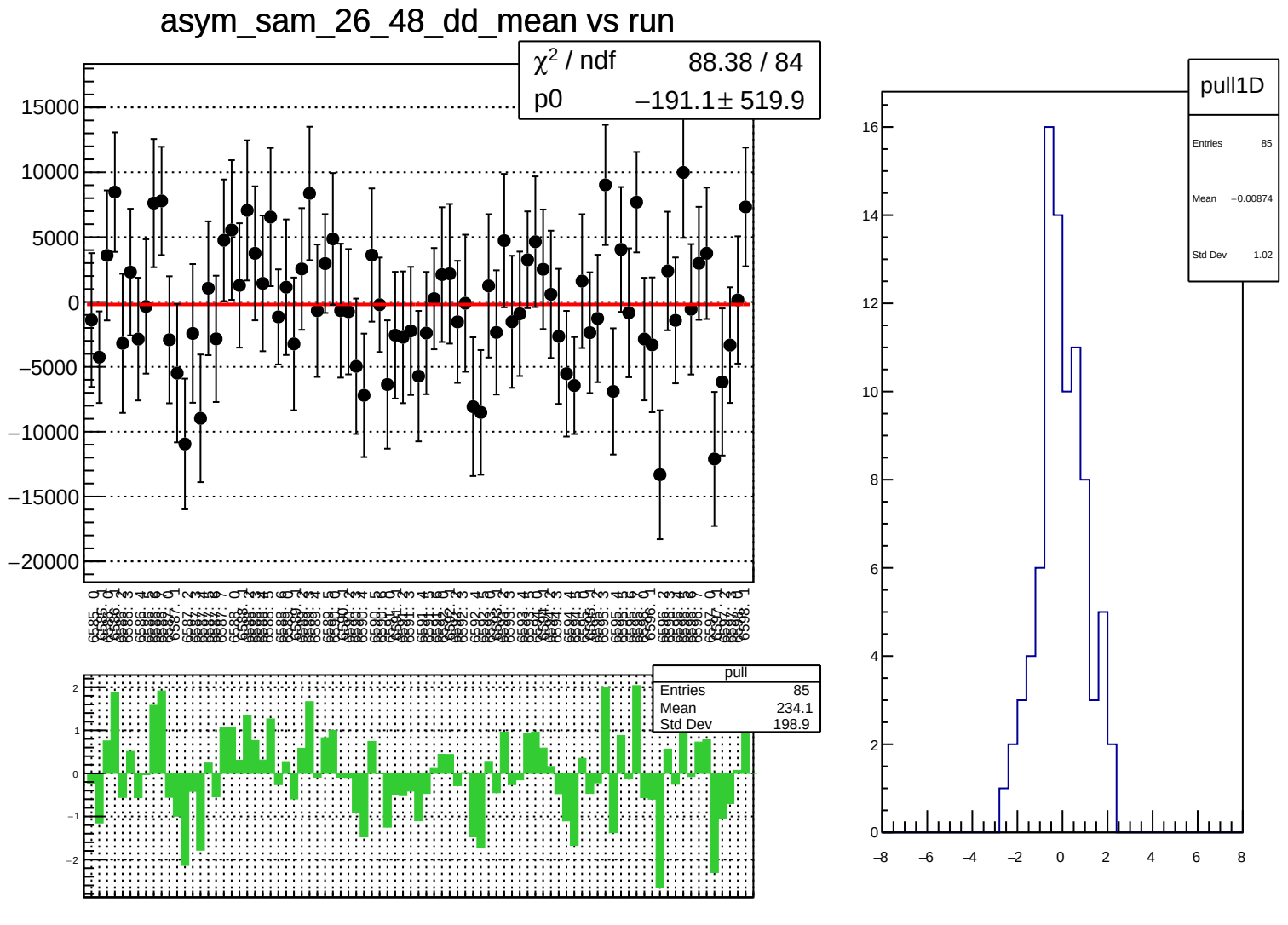
reg_asym_sam_26_48_dd_rms vs run

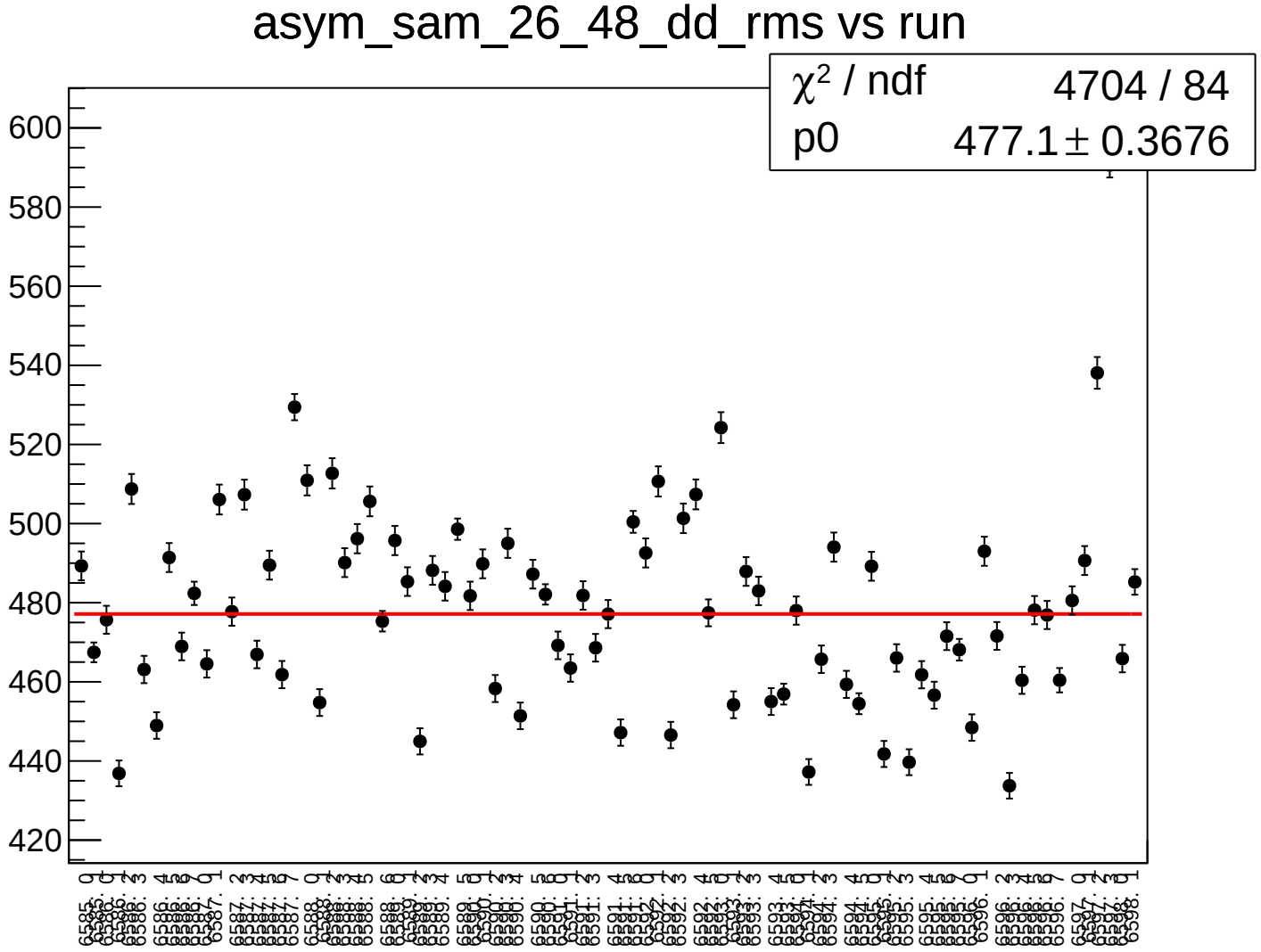


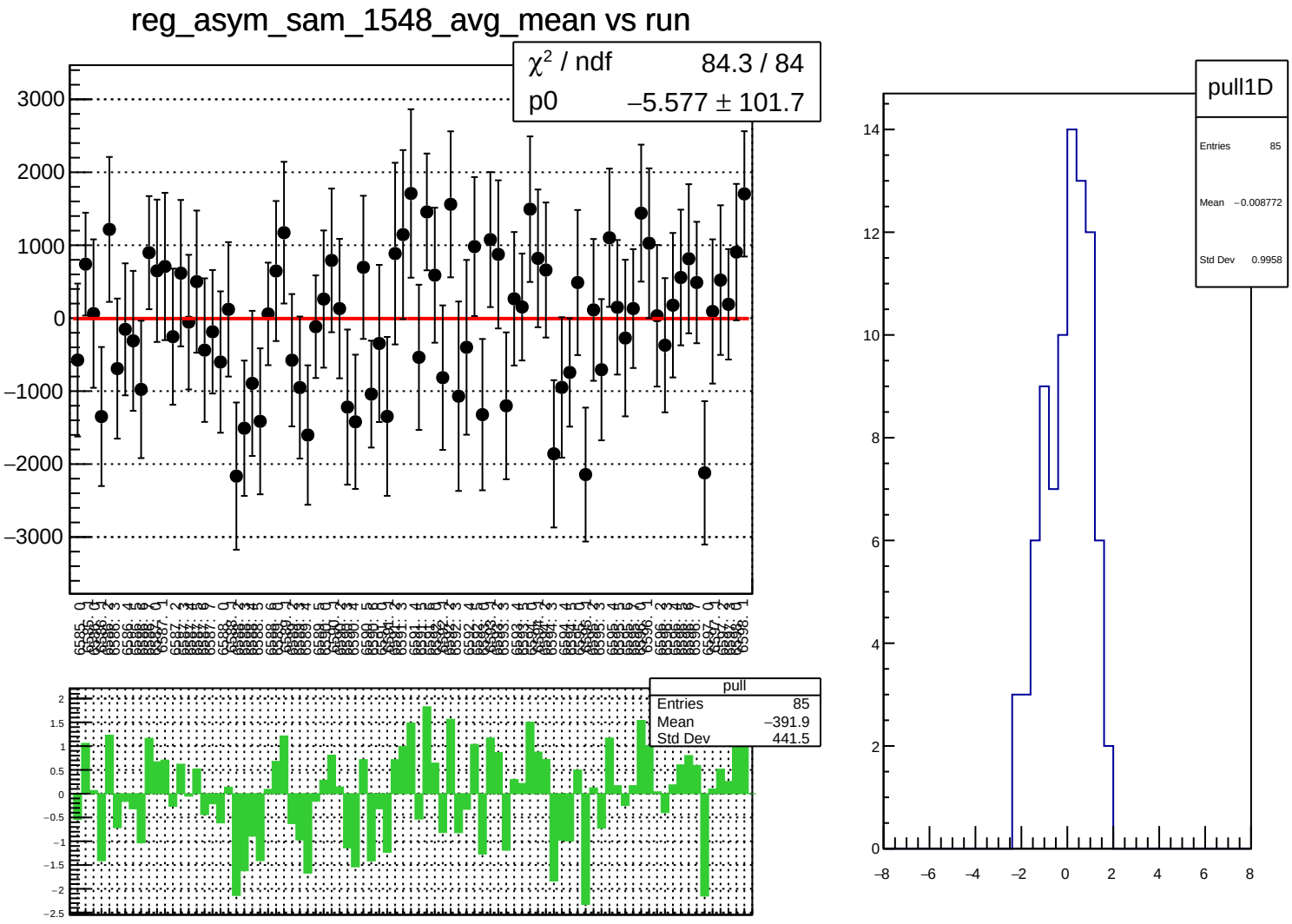

asym_sam_26_48_dd_correction_mean vs run
χ2 / ndf 87.53 / 84
p0 111 ± 511
pull
Entries 85
Mean 190.9
Std Dev 167.1
pull1D
Entries 85
Mean 0.008167
Std Dev 1.015

asym_sam_26_48_dd_correction_rms vs run

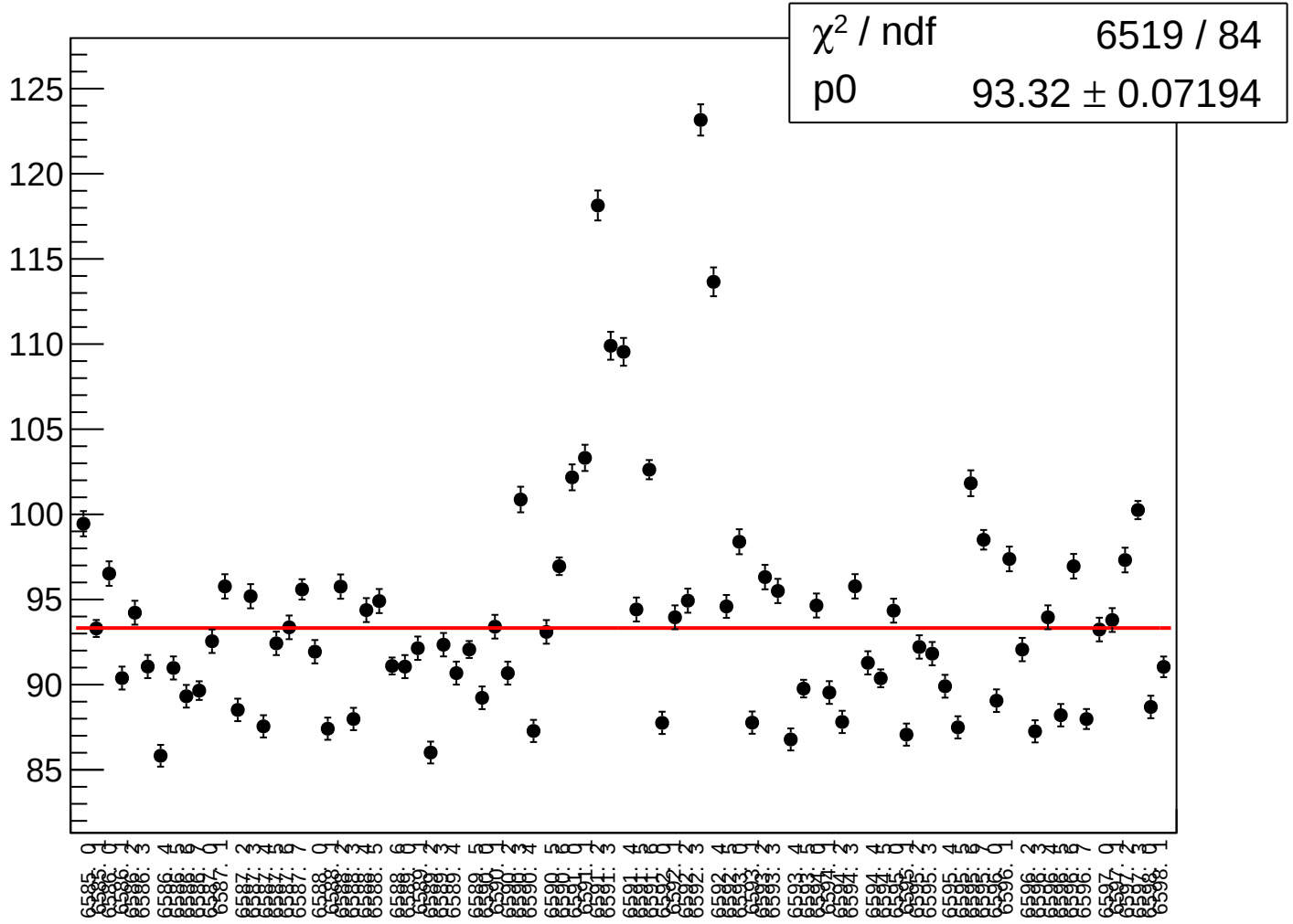


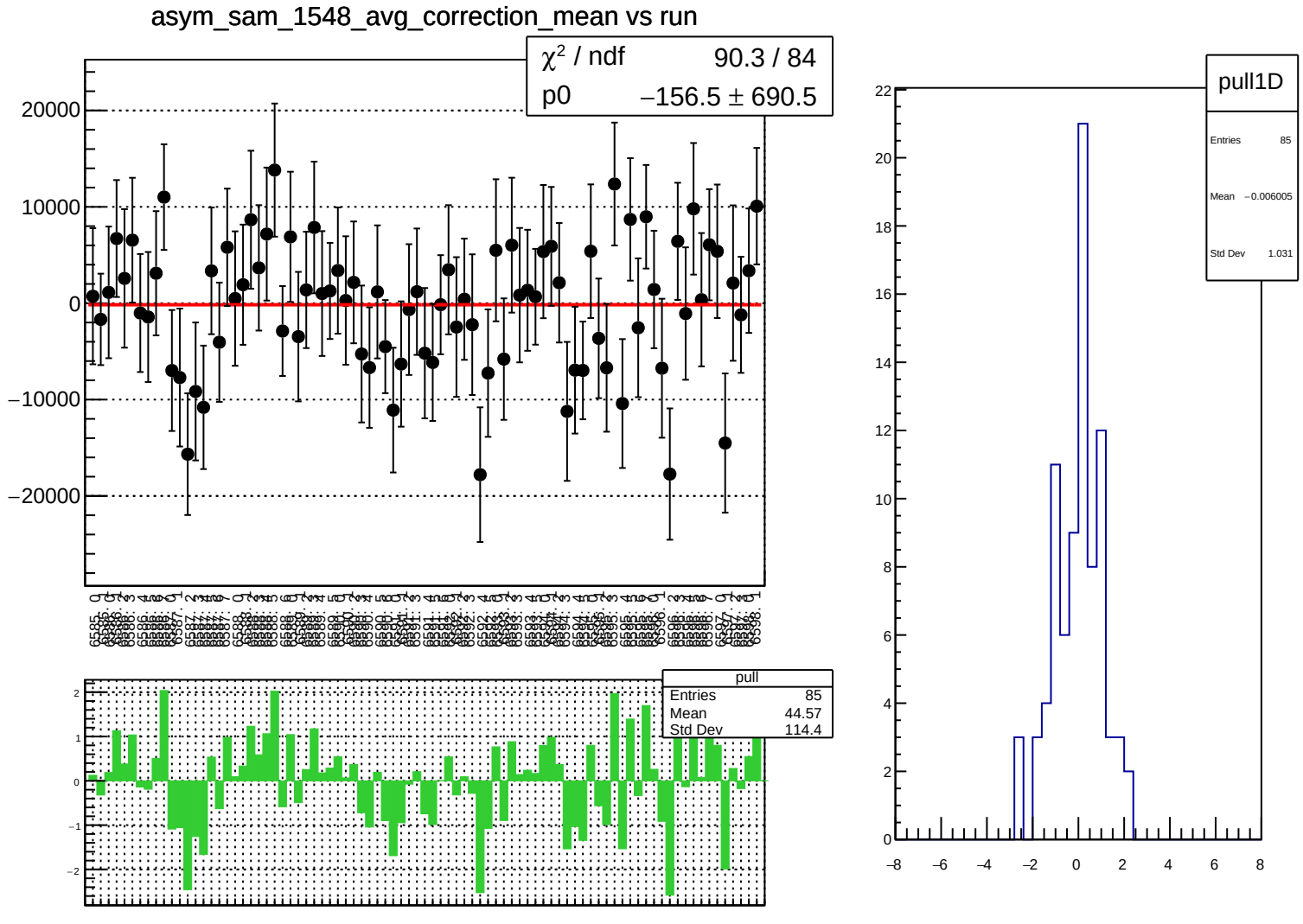

asym_sam_26_48_dd_mean vs run
χ² / ndf 88.38 / 84
p0 −191.1 ± 519.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 234.1
Std Dev 198.9
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.00874
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_rms vs run
χ² / ndf 4704 / 84
p0 477.1 ± 0.3676
600
580
560
540
520
500
480
460
440
420

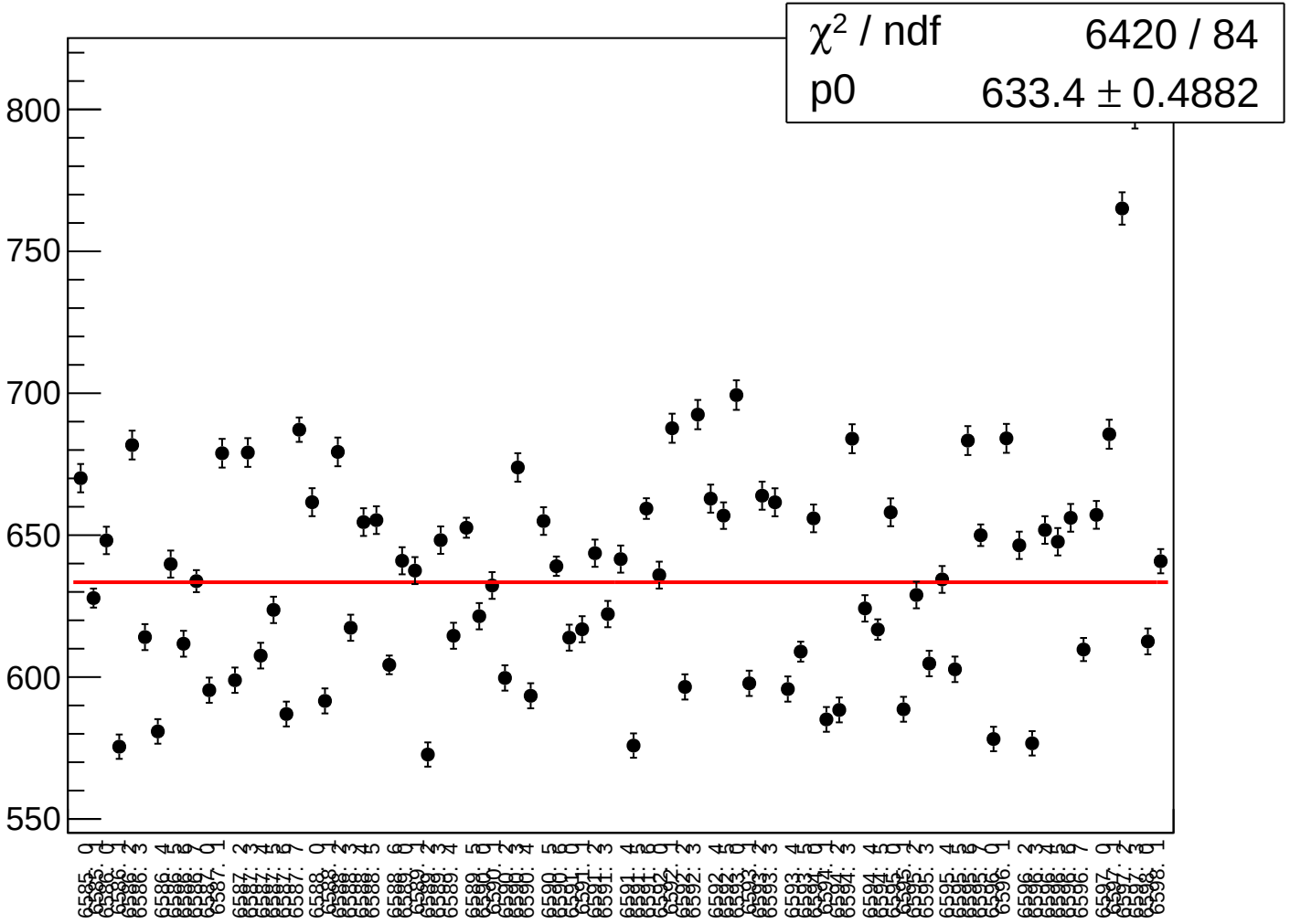

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 84.3 / 84
p0 −5.577 ± 101.7
pull
Entries 85
Mean −391.9
Std Dev 441.5
pull1D
Entries 85
Mean −0.008772
Std Dev 0.9958

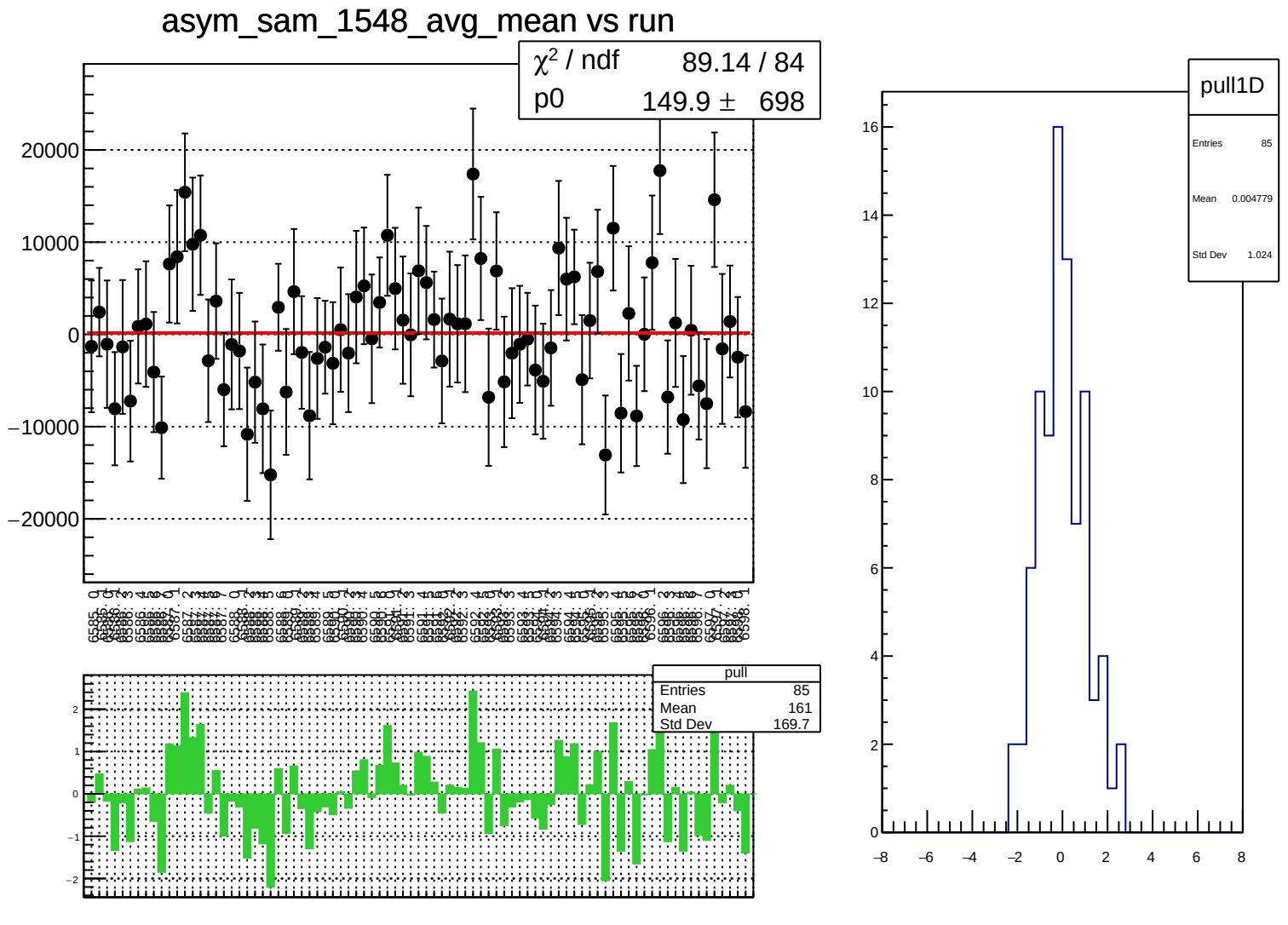
reg_asym_sam_1548_avg_rms vs run

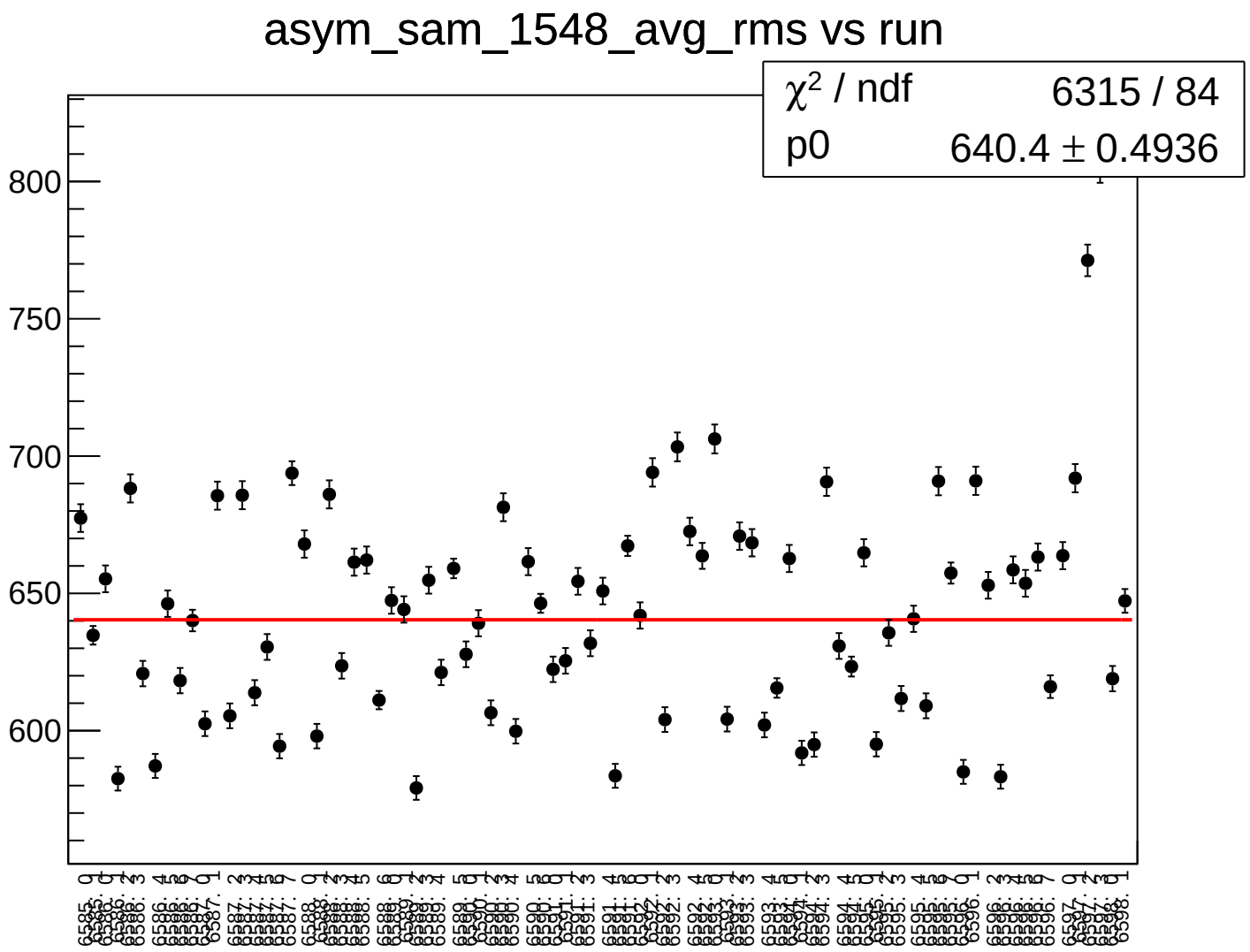


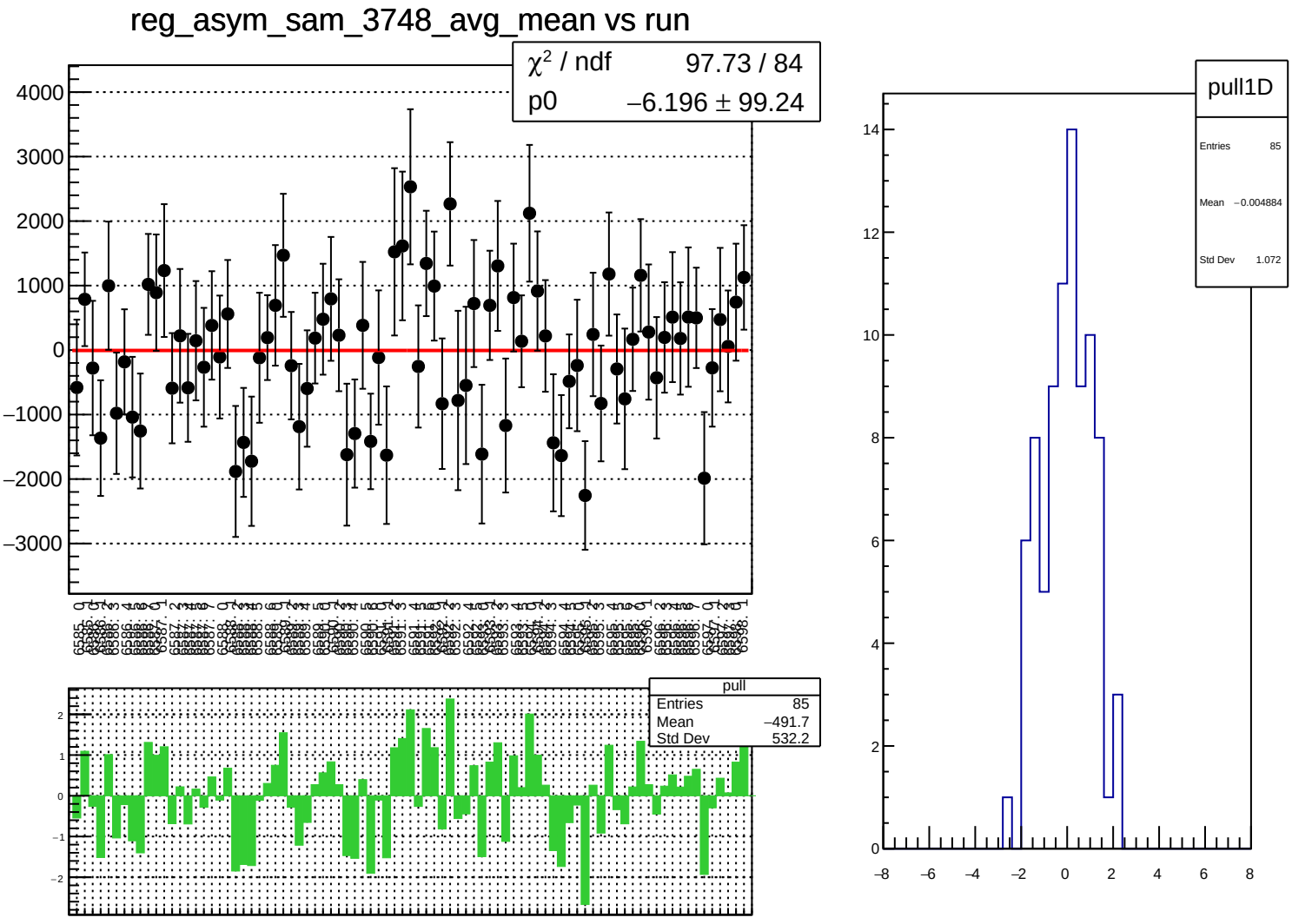

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 90.3 / 84
p0 −156.5 ± 690.5
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 44.57
Std Dev 114.4
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.006005
Std Dev 1.031
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1548_avg_correction_rms vs run

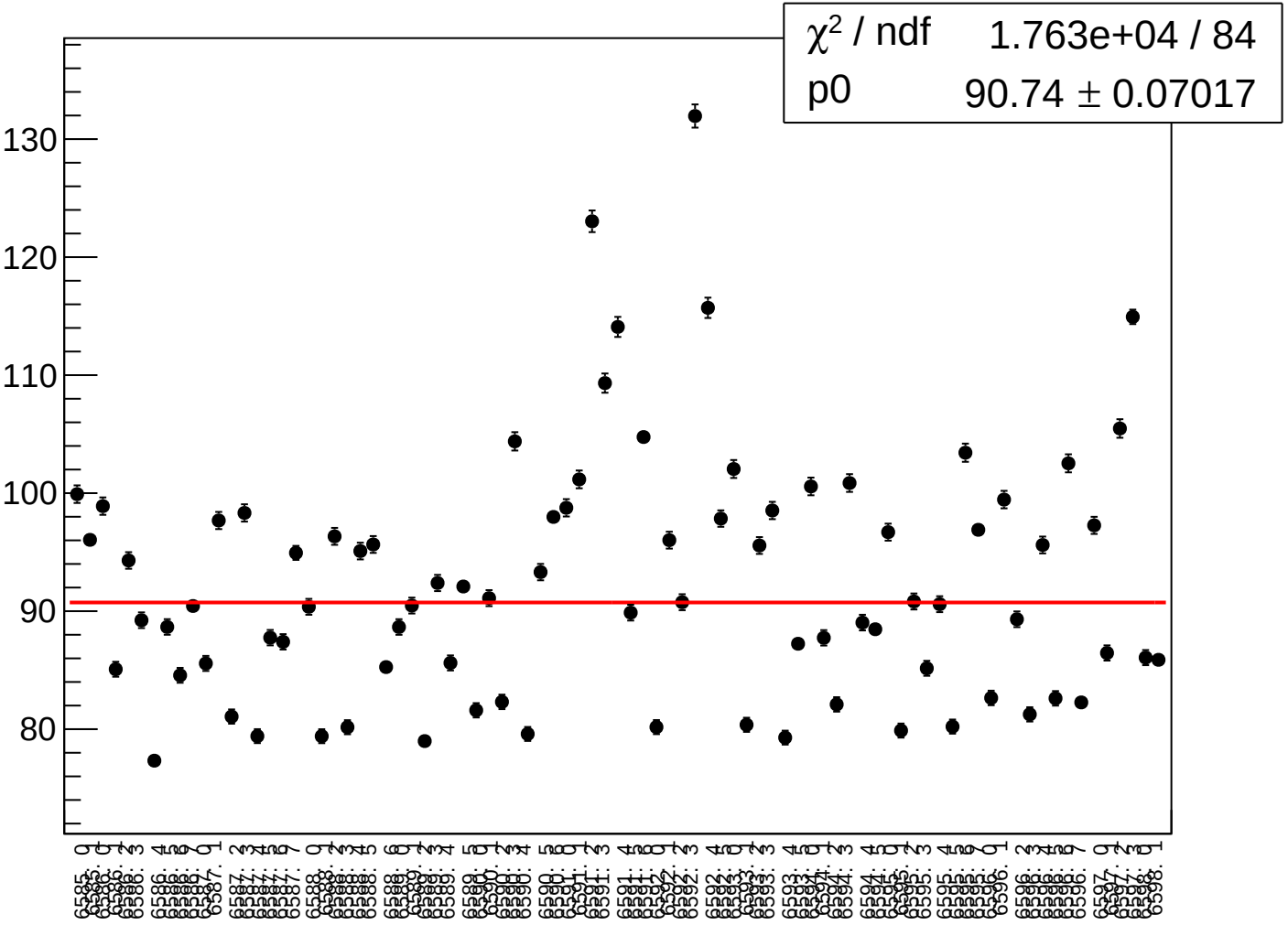


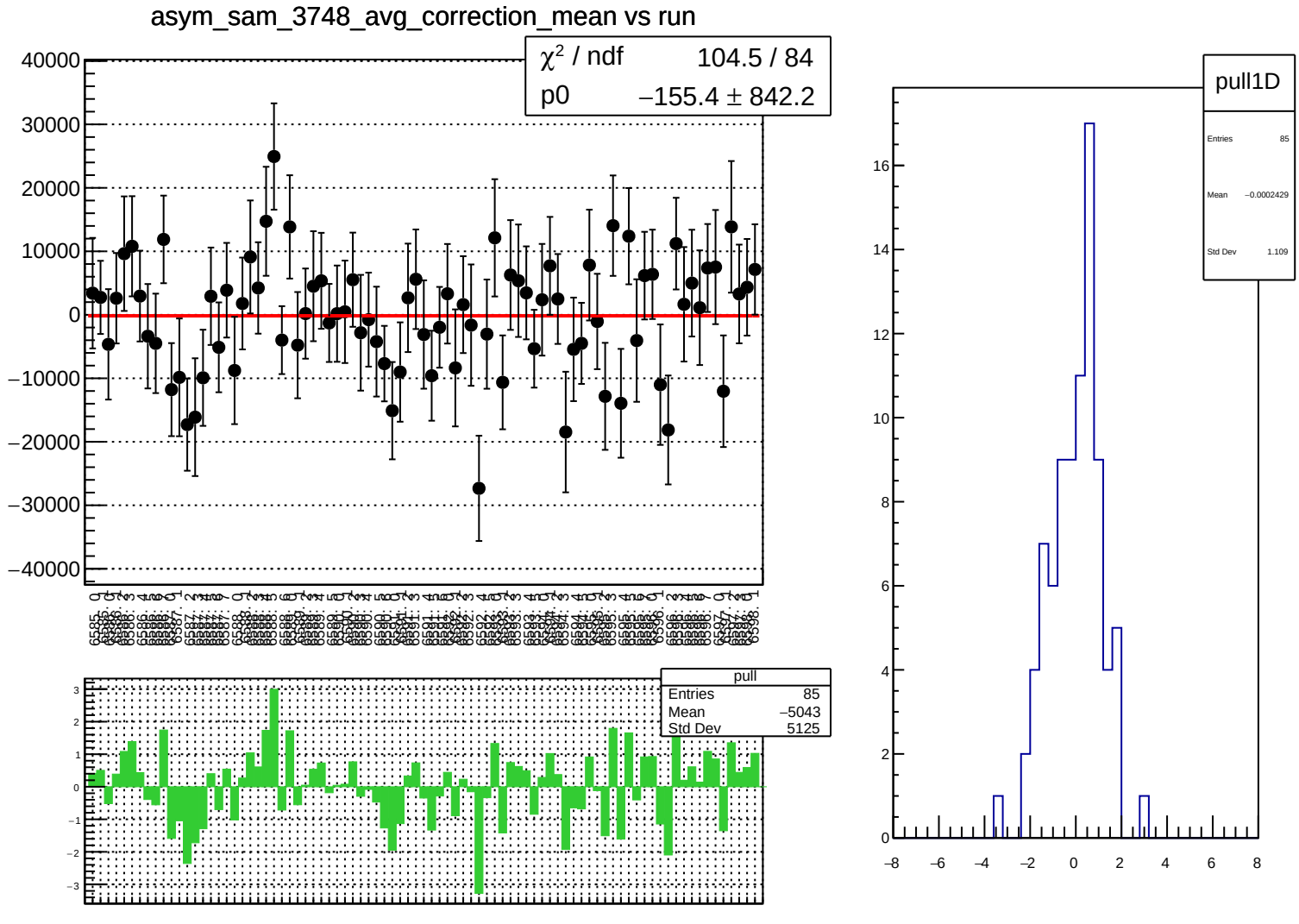

asym_sam_1548_avg_mean vs run
χ² / ndf 89.14 / 84
p0 149.9 ± 698
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 161
Std Dev 169.7
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.004779
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

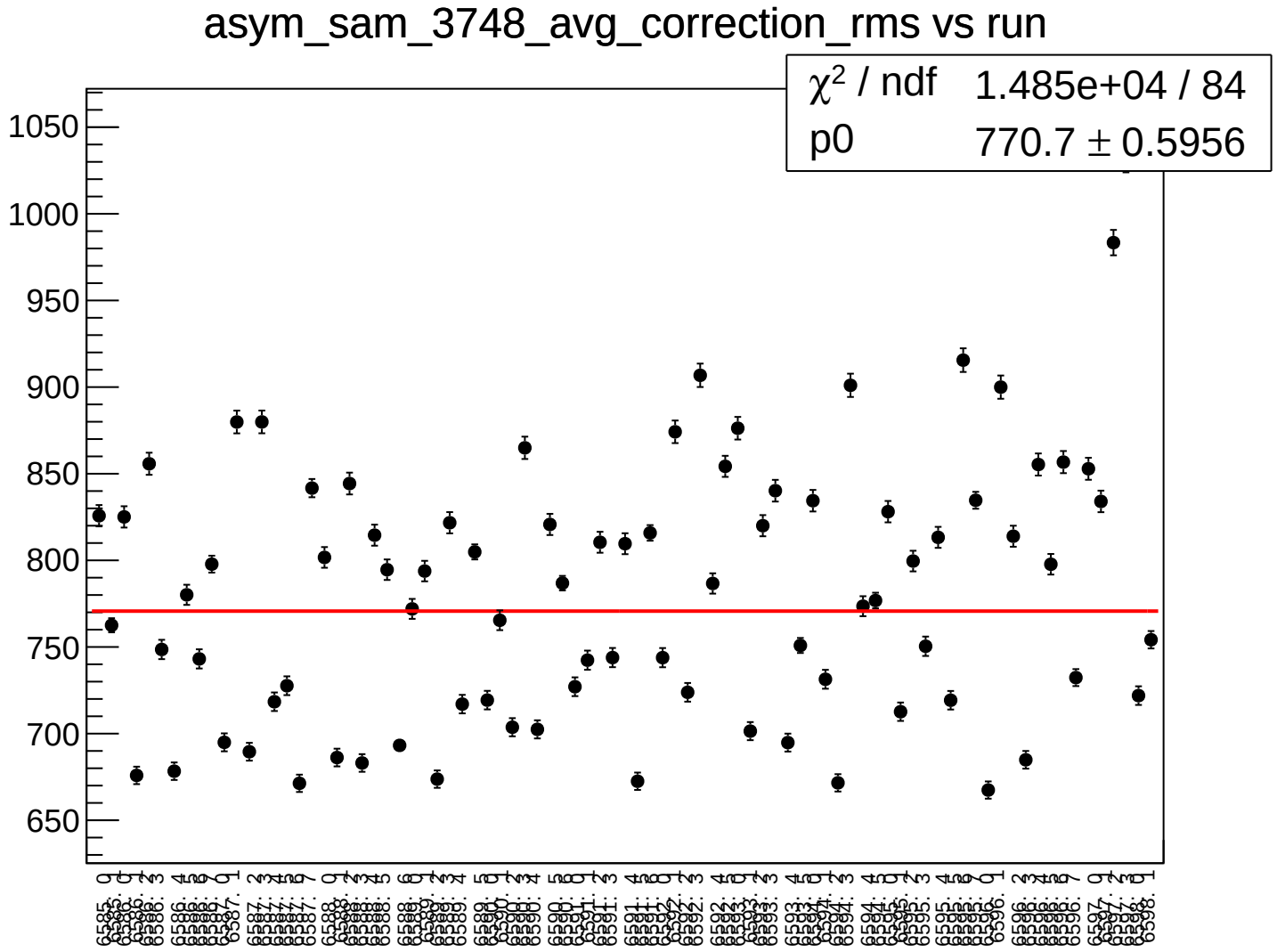

asym_sam_1548_avg_rms vs run
χ² / ndf 6315 / 84
p0 640.4 ± 0.4936
800
750
700
650
600

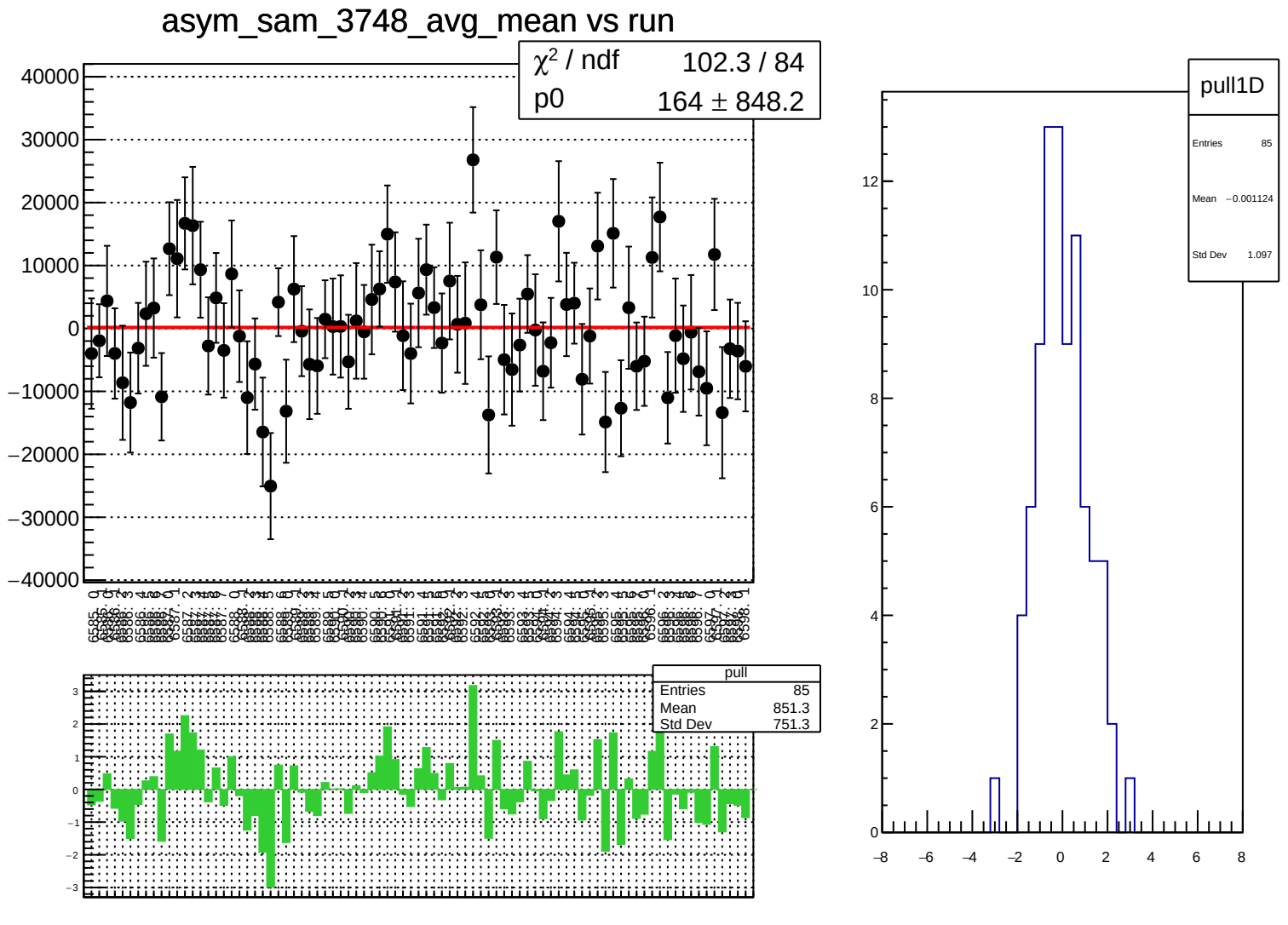

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 97.73 / 84
p0 −6.196 ± 99.24
pull
Entries 85
Mean −491.7
Std Dev 532.2
pull1D
Entries 85
Mean −0.004884
Std Dev 1.072

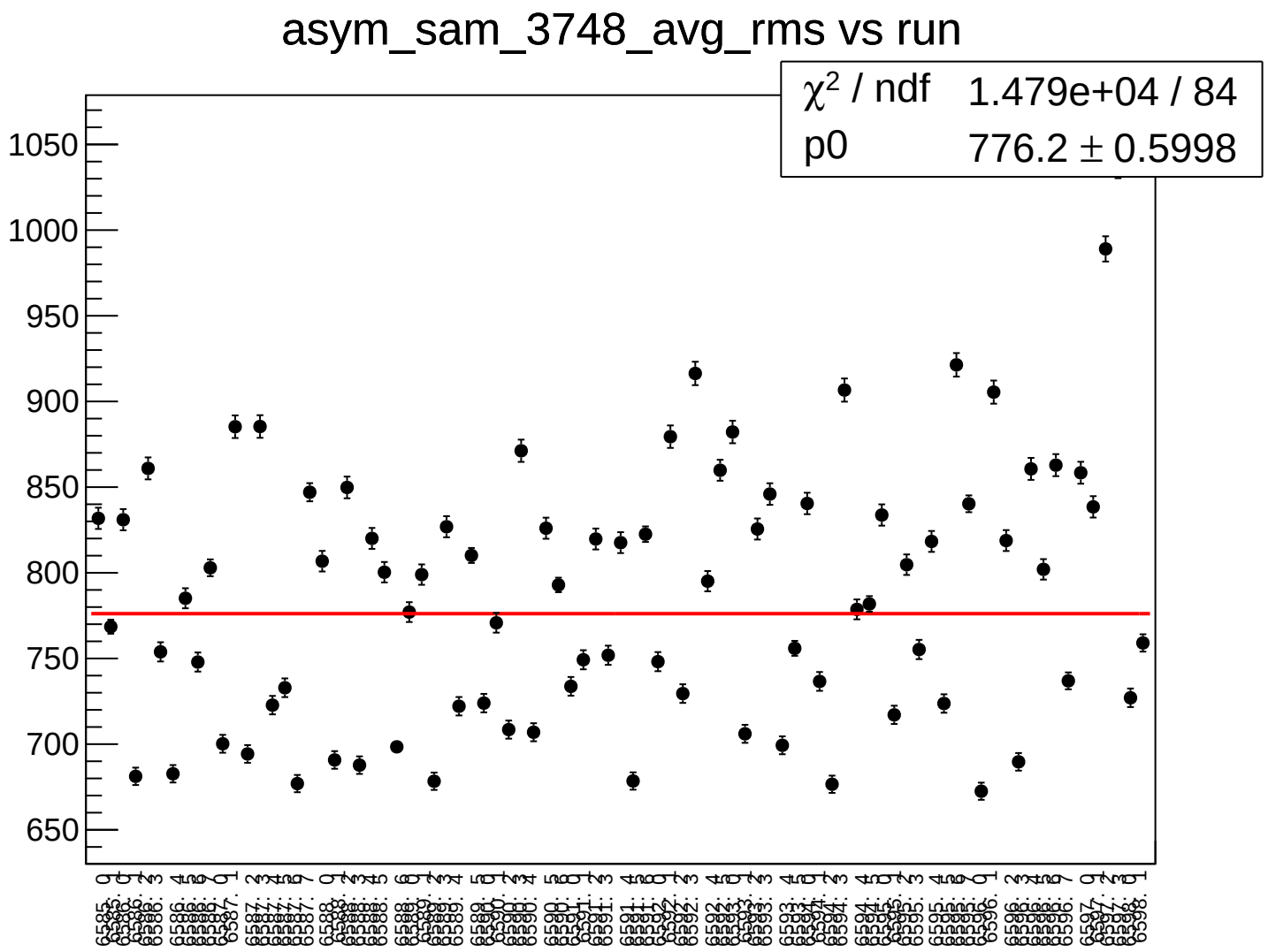
reg_asym_sam_3748_avg_rms vs run

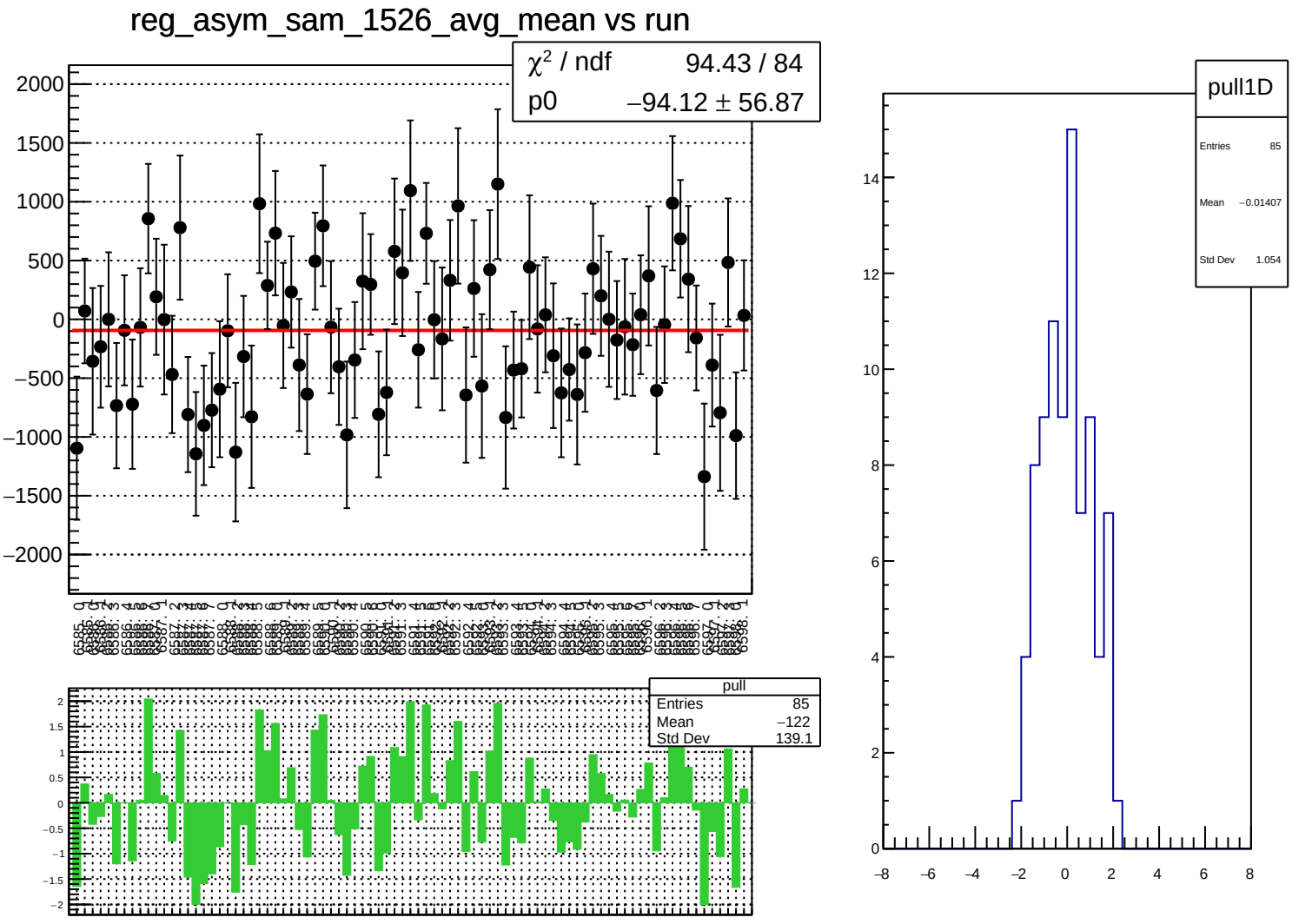



asym_sam_3748_avg_correction_mean vs run
χ^2 / ndf 104.5 / 84
p0 −155.4 ± 842.2
pull
Entries 85
Mean −5043
Std Dev 5125
pull1D
Entries 85
Mean −0.0002429
Std Dev 1.109

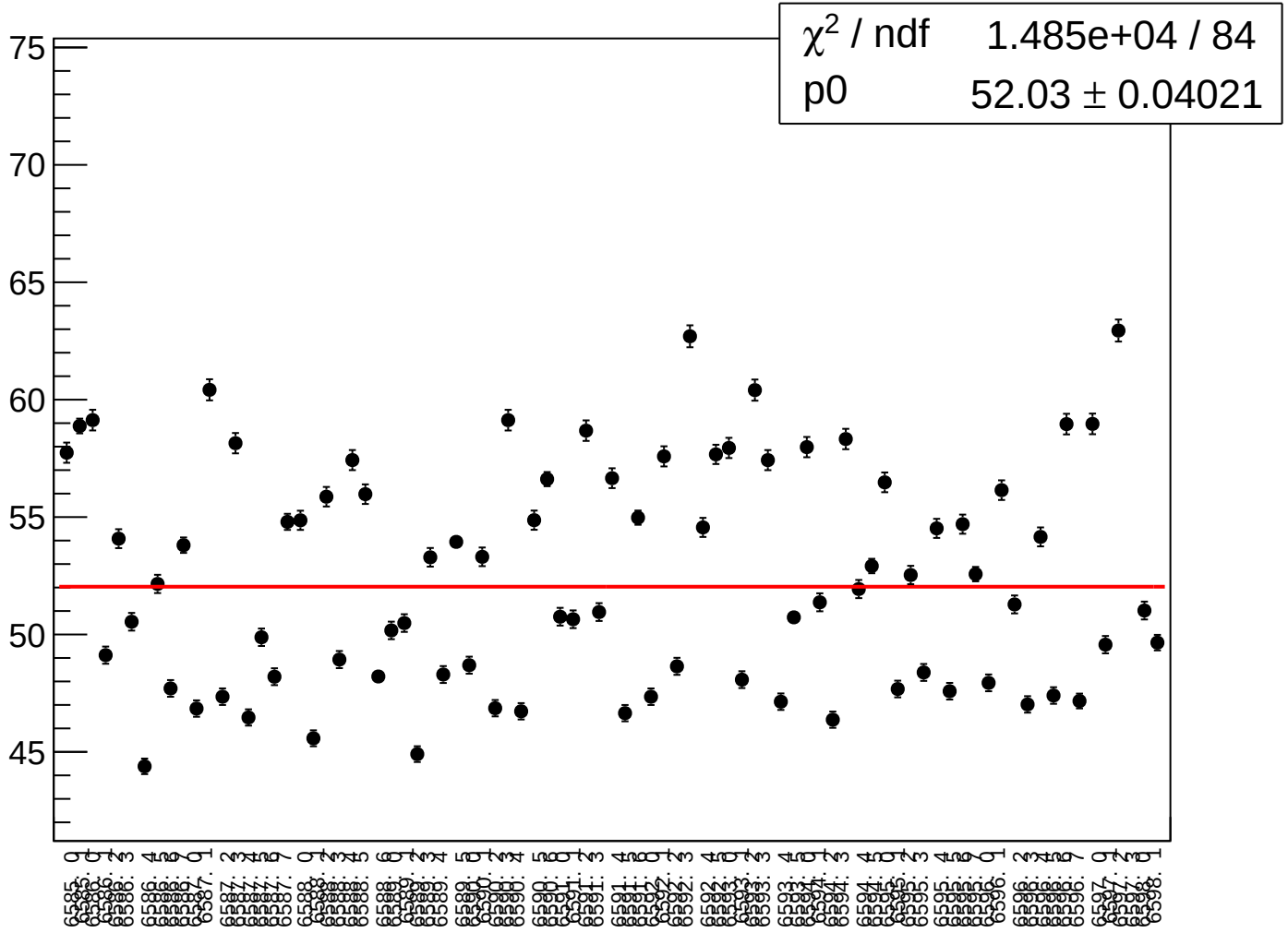

asym_sam_3748_avg_correction_rms vs run
χ^2 / ndf 1.485e+04 / 84
p0 770.7 ± 0.5956
1050
1000
950
900
850
800
750
700
650

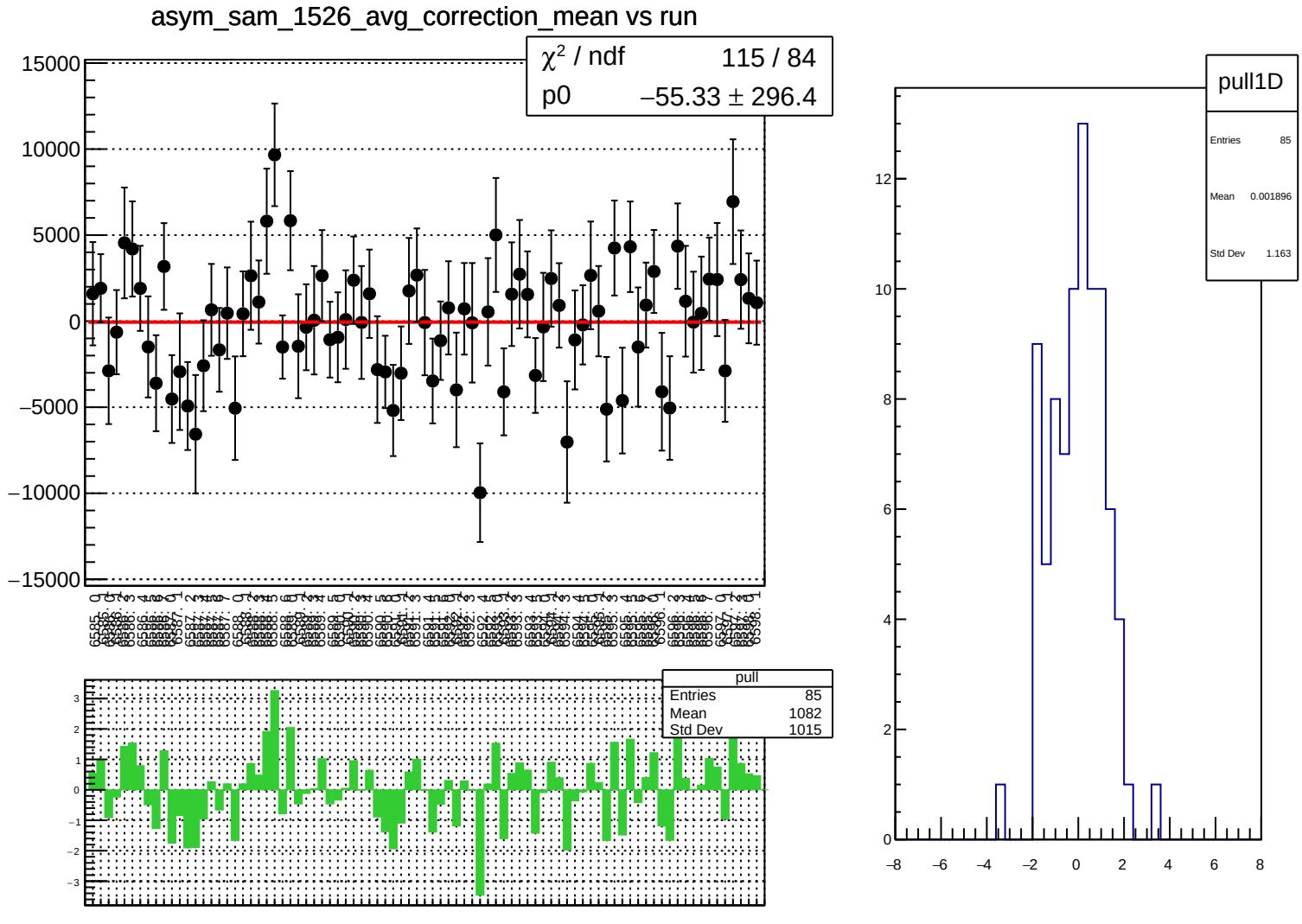

asym_sam_3748_avg_mean vs run
χ² / ndf 102.3 / 84
p0 164 ± 848.2
pull
Entries 85
Mean 851.3
Std Dev 751.3
pull1D
Entries 85
Mean −0.001124
Std Dev 1.097


asym_sam_3748_avg_rms vs run
χ² / ndf 1.479e+04 / 84
p0 776.2 ± 0.5998
1050
1000
950
900
850
800
750
700
650

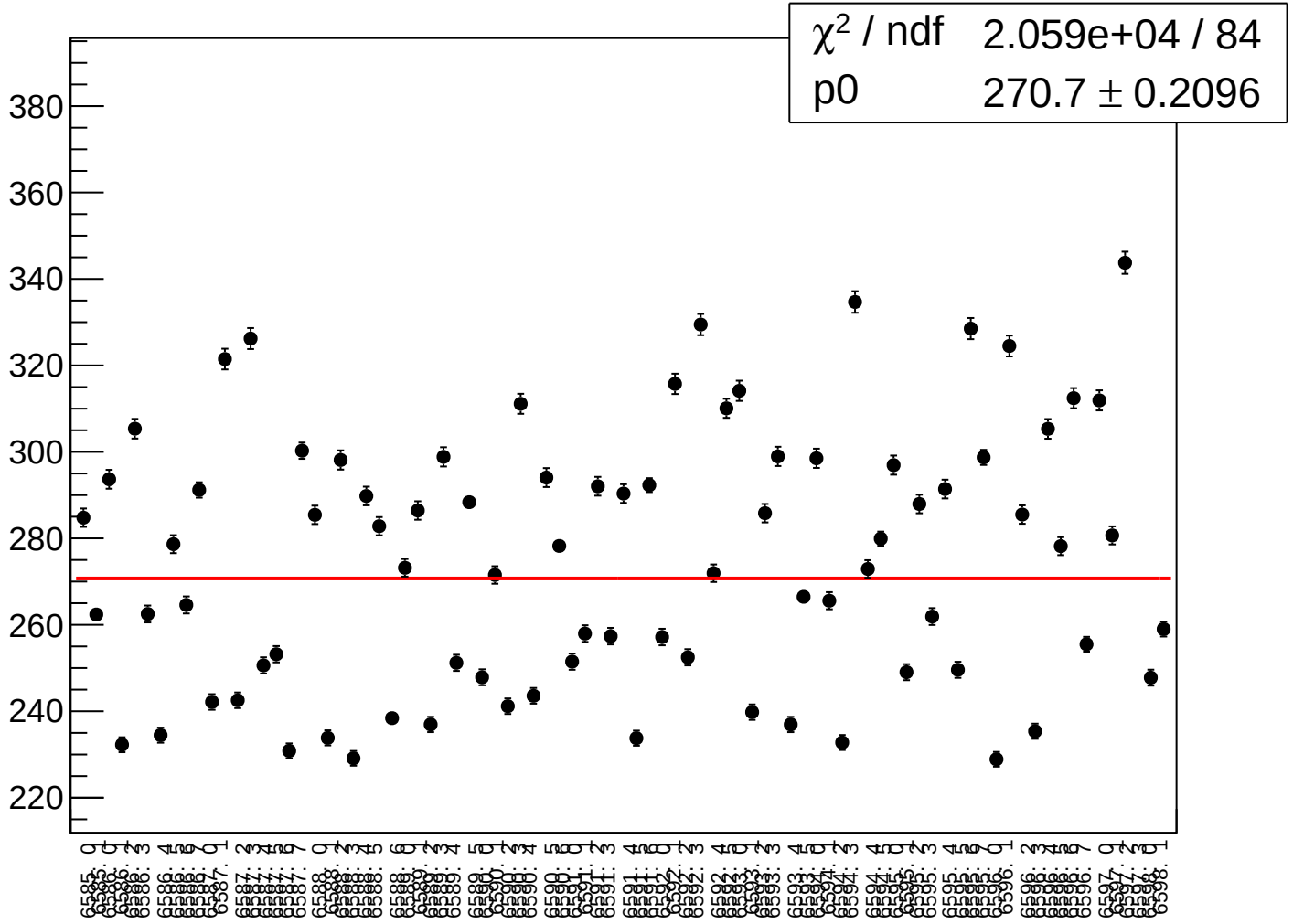

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 94.43 / 84
p0 −94.12 ± 56.87
pull
Entries 85
Mean −122
Std Dev 139.1
pull1D
Entries 85
Mean −0.01407
Std Dev 1.054

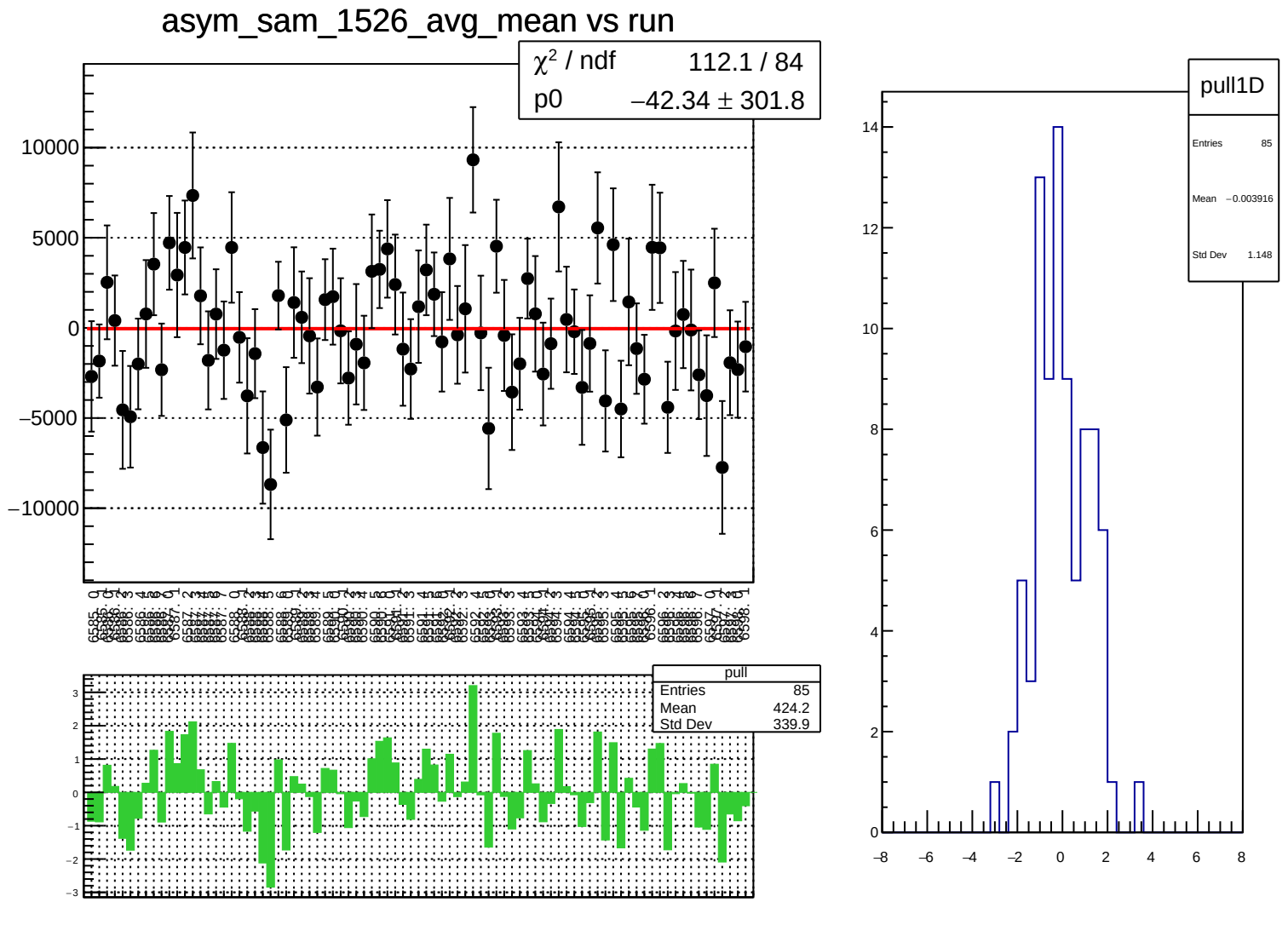
reg_asym_sam_1526_avg_rms vs run

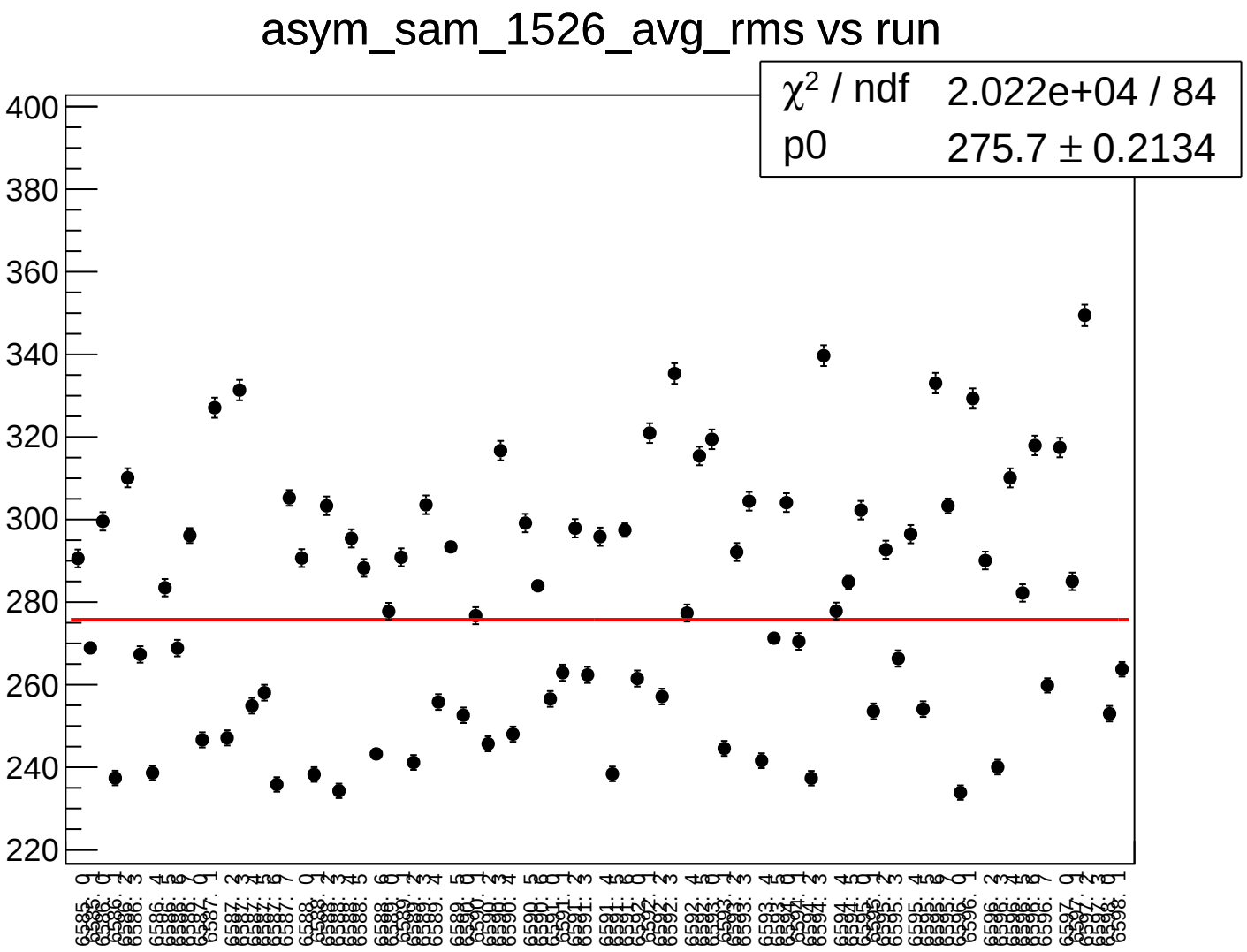


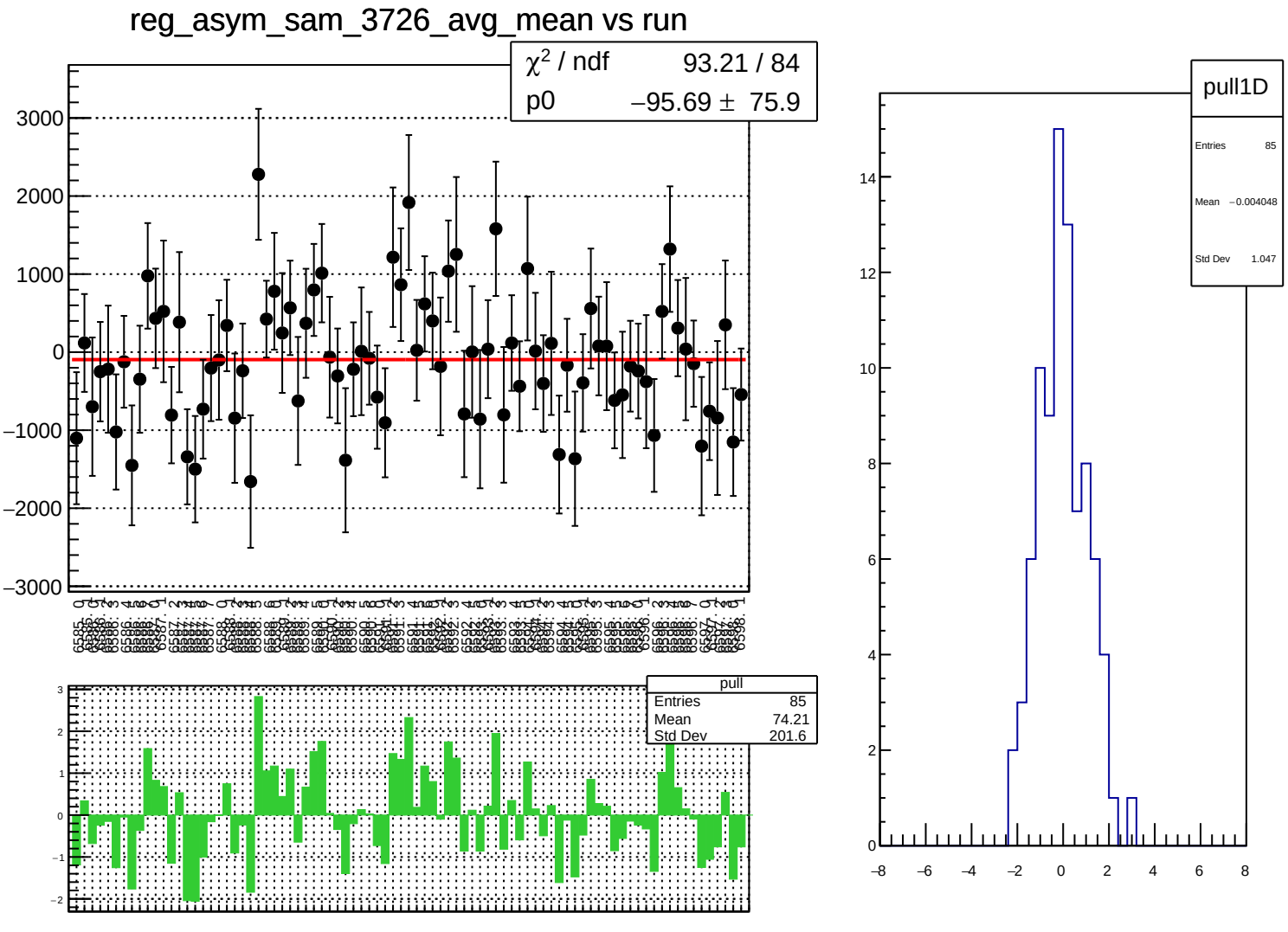

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 115 / 84
p0 −55.33 ± 296.4
pull
Entries 85
Mean 1082
Std Dev 1015
pull1D
Entries 85
Mean 0.001896
Std Dev 1.163

asym_sam_1526_avg_correction_rms vs run

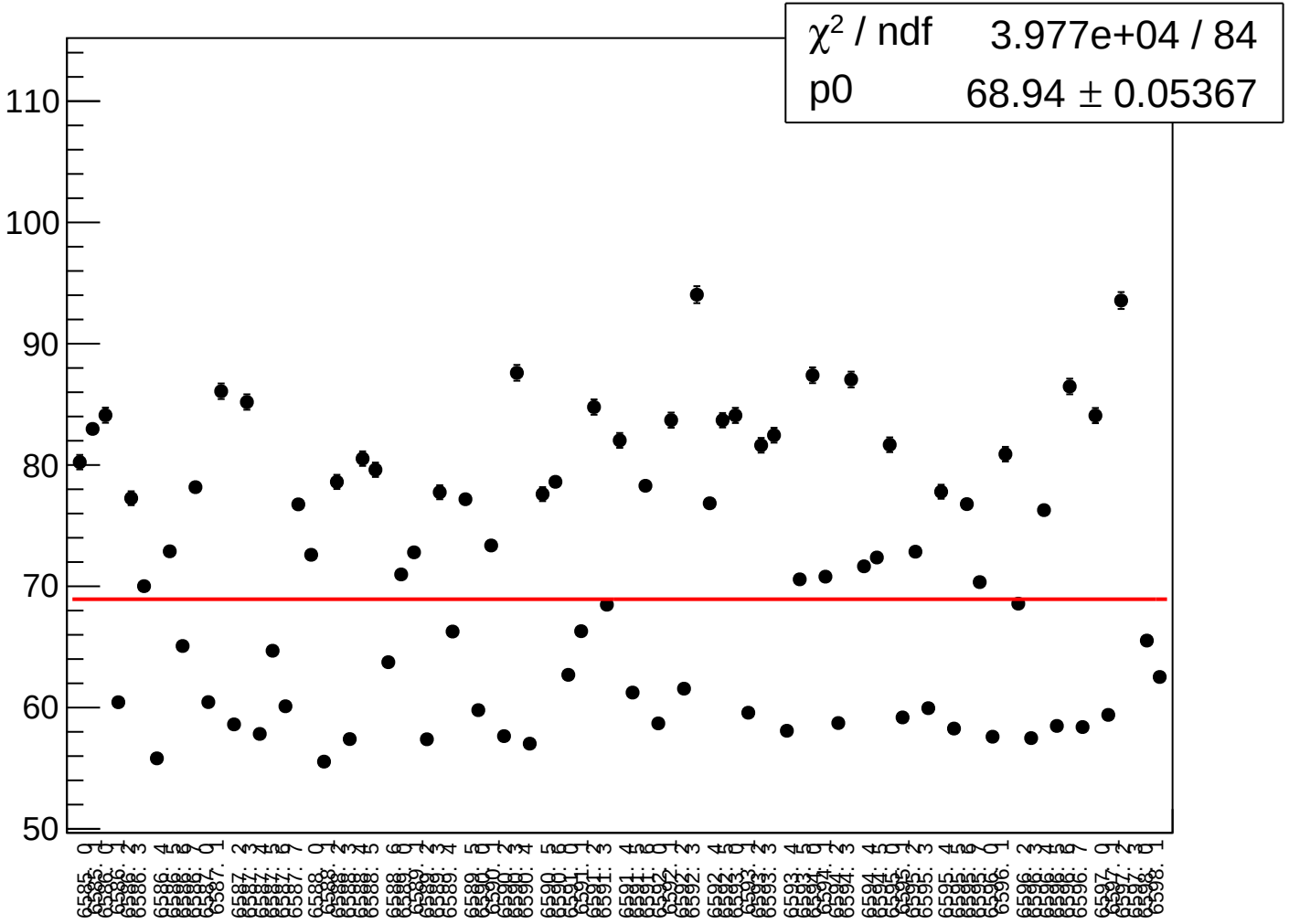


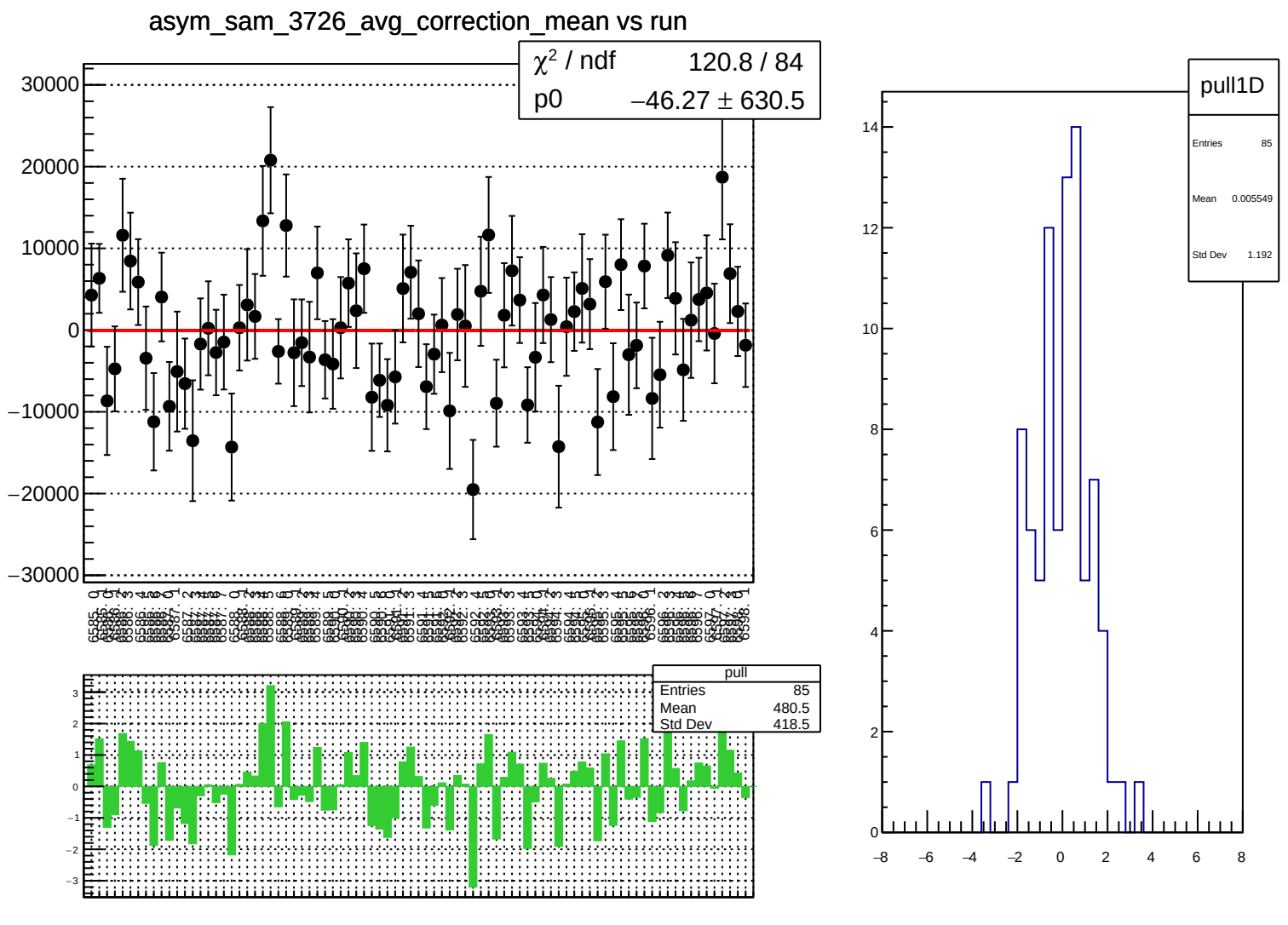

asym_sam_1526_avg_mean vs run
χ² / ndf 112.1 / 84
p0 −42.34 ± 301.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 424.2
Std Dev 339.9
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.003916
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.022e+04 / 84
p0 275.7 ± 0.2134
400
380
360
340
320
300
280
260
240
220

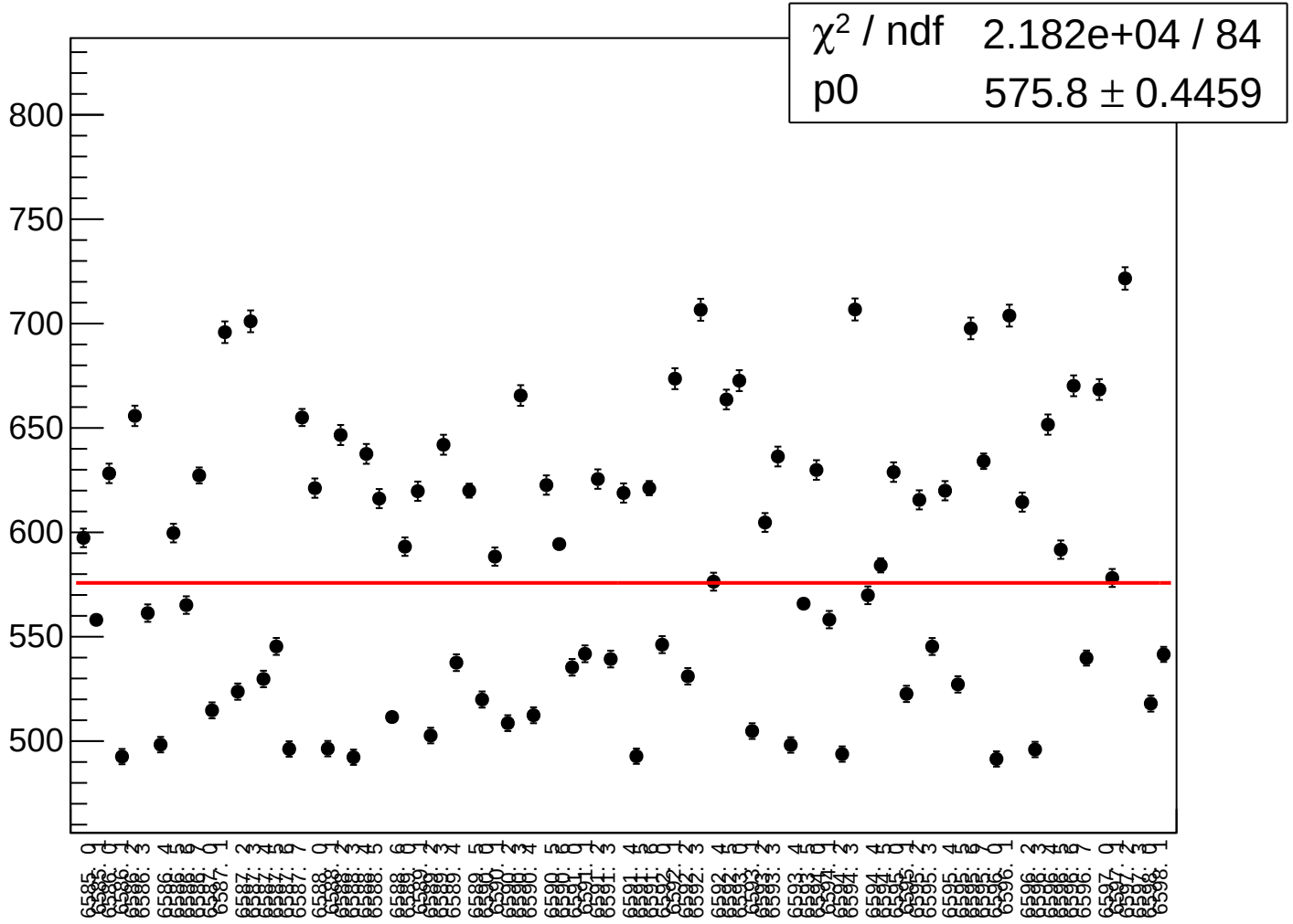

reg_asym_sam_3726_avg_mean vs run
χ^2 / ndf 93.21 / 84
p0 −95.69 ± 75.9
pull
Entries 85
Mean 74.21
Std Dev 201.6
pull1D
Entries 85
Mean −0.004048
Std Dev 1.047

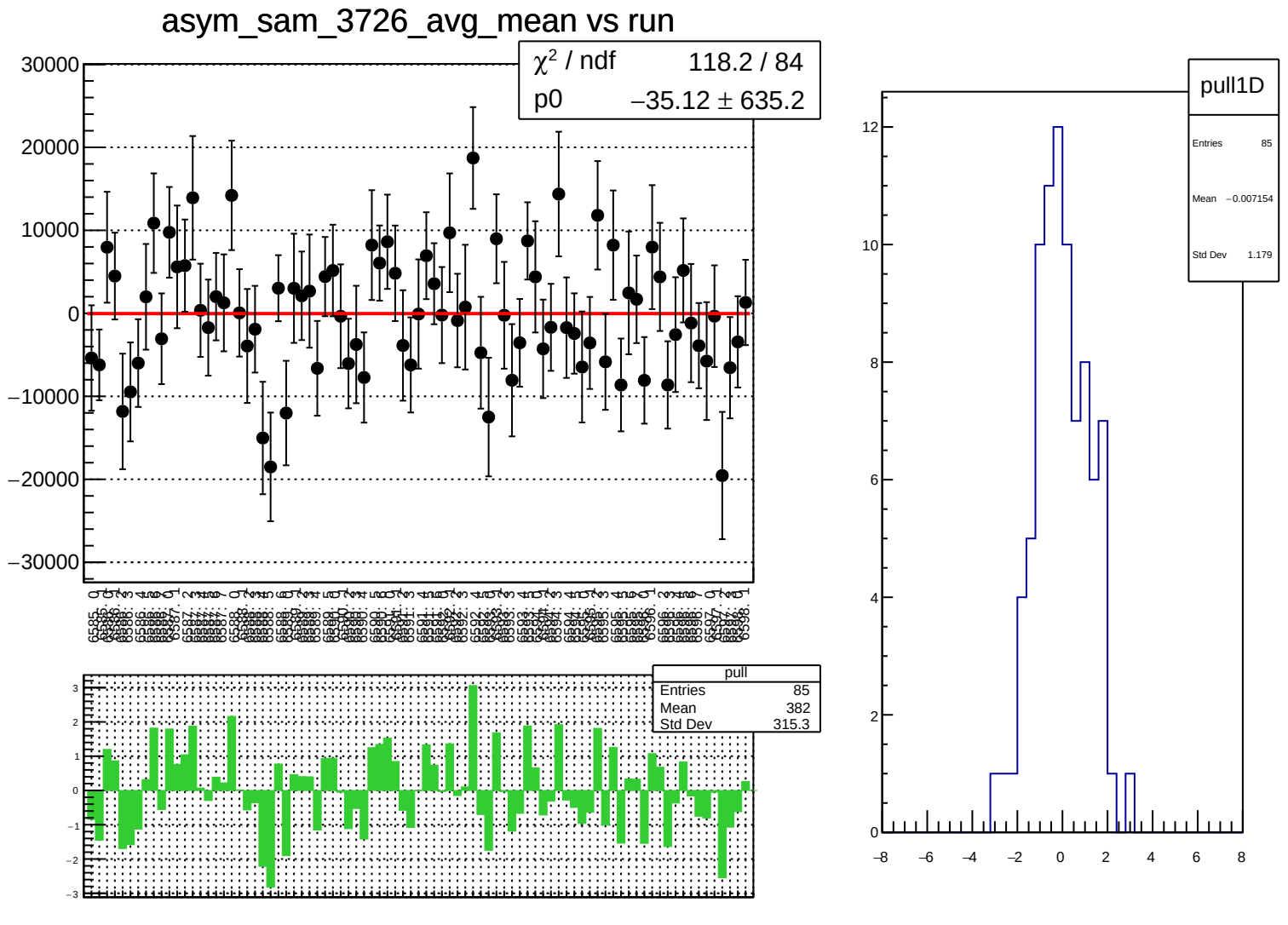
reg_asym_sam_3726_avg_rms vs run



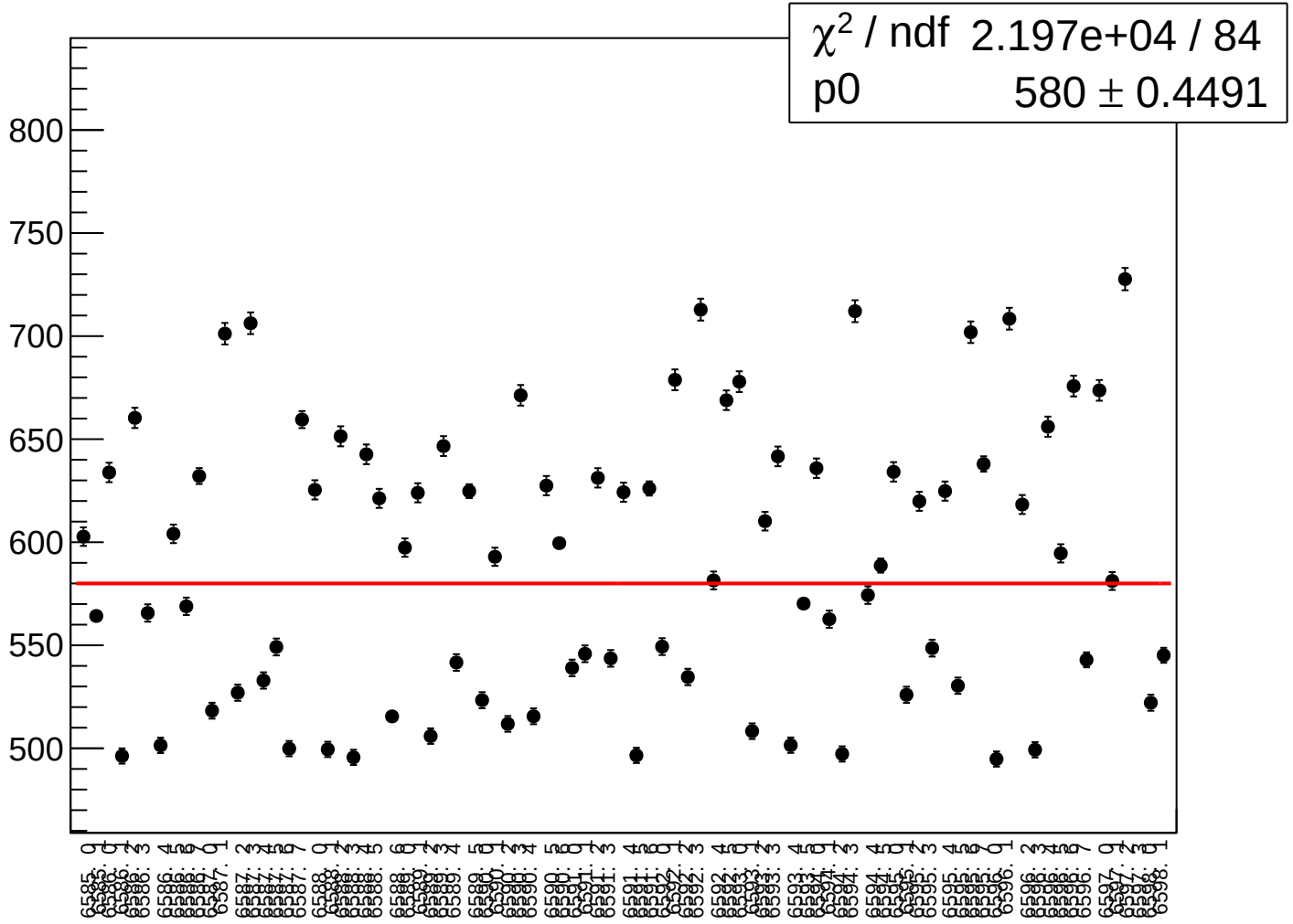

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 120.8 / 84
p0 −46.27 ± 630.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 480.5
Std Dev 418.5
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.005549
Std Dev 1.192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

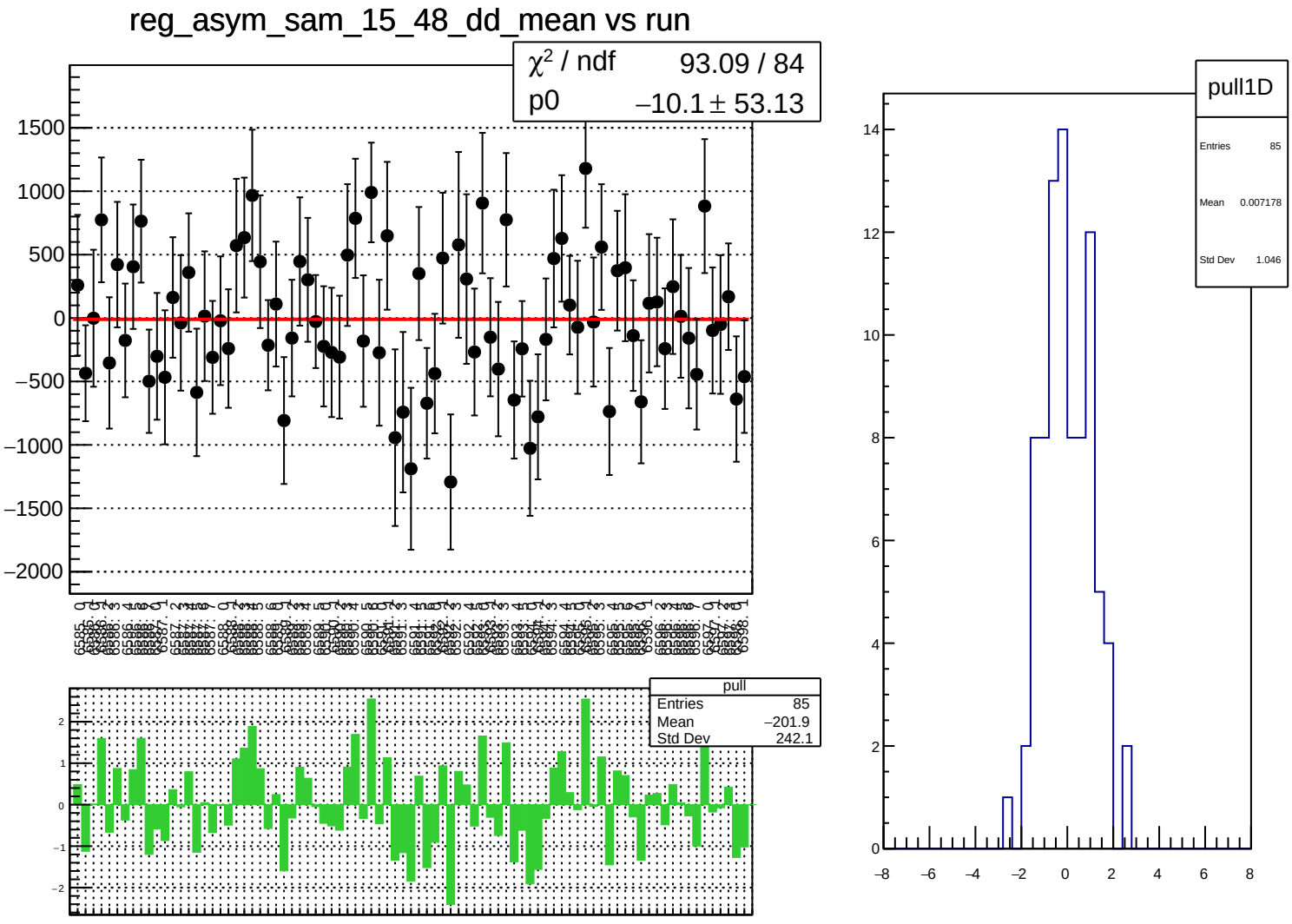
asym_sam_3726_avg_correction_rms vs run



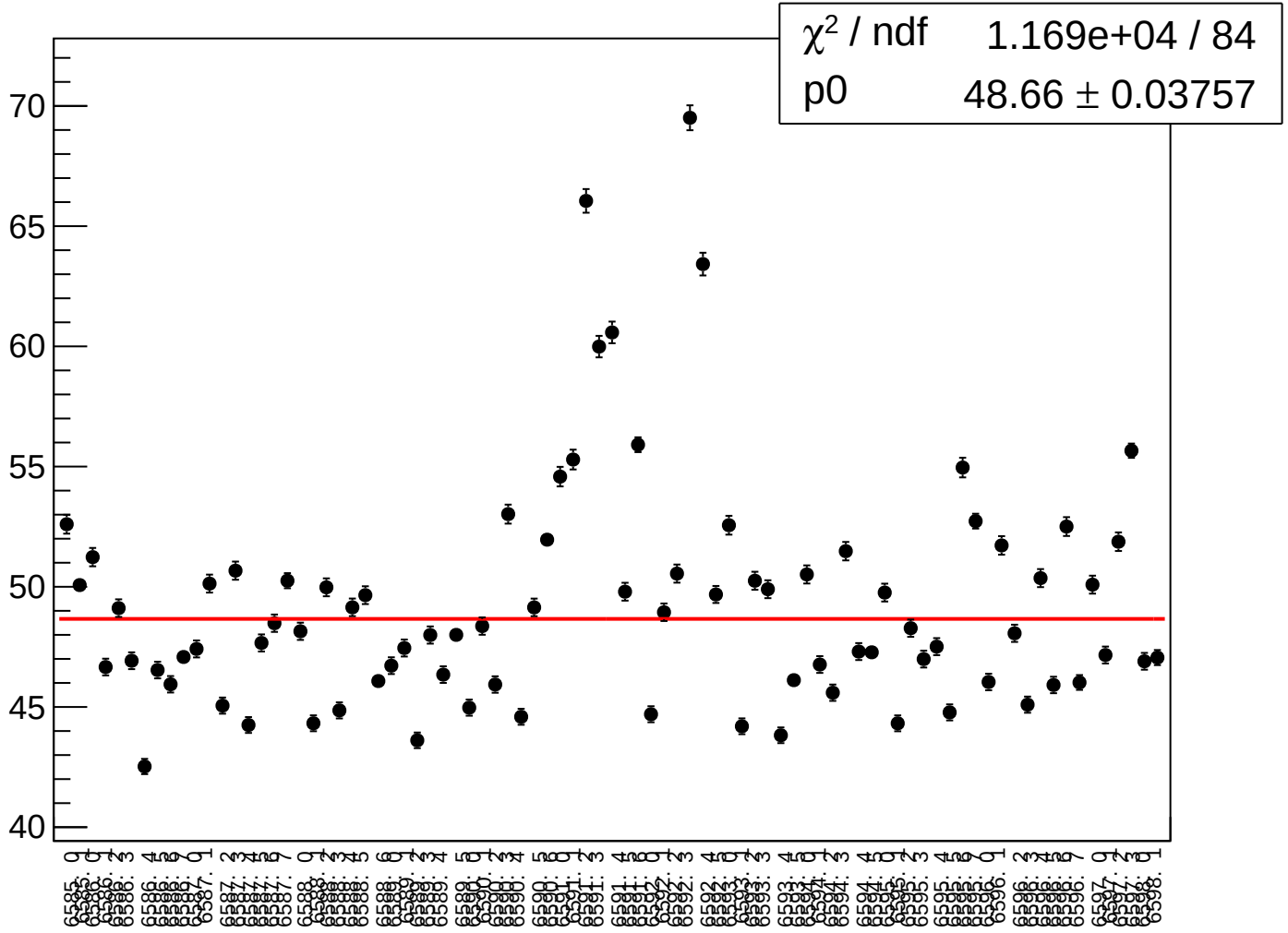

asym_sam_3726_avg_mean vs run
χ² / ndf 118.2 / 84
p0 −35.12 ± 635.2
pull
Entries 85
Mean 382
Std Dev 315.3
pull1D
Entries 85
Mean −0.007154
Std Dev 1.179

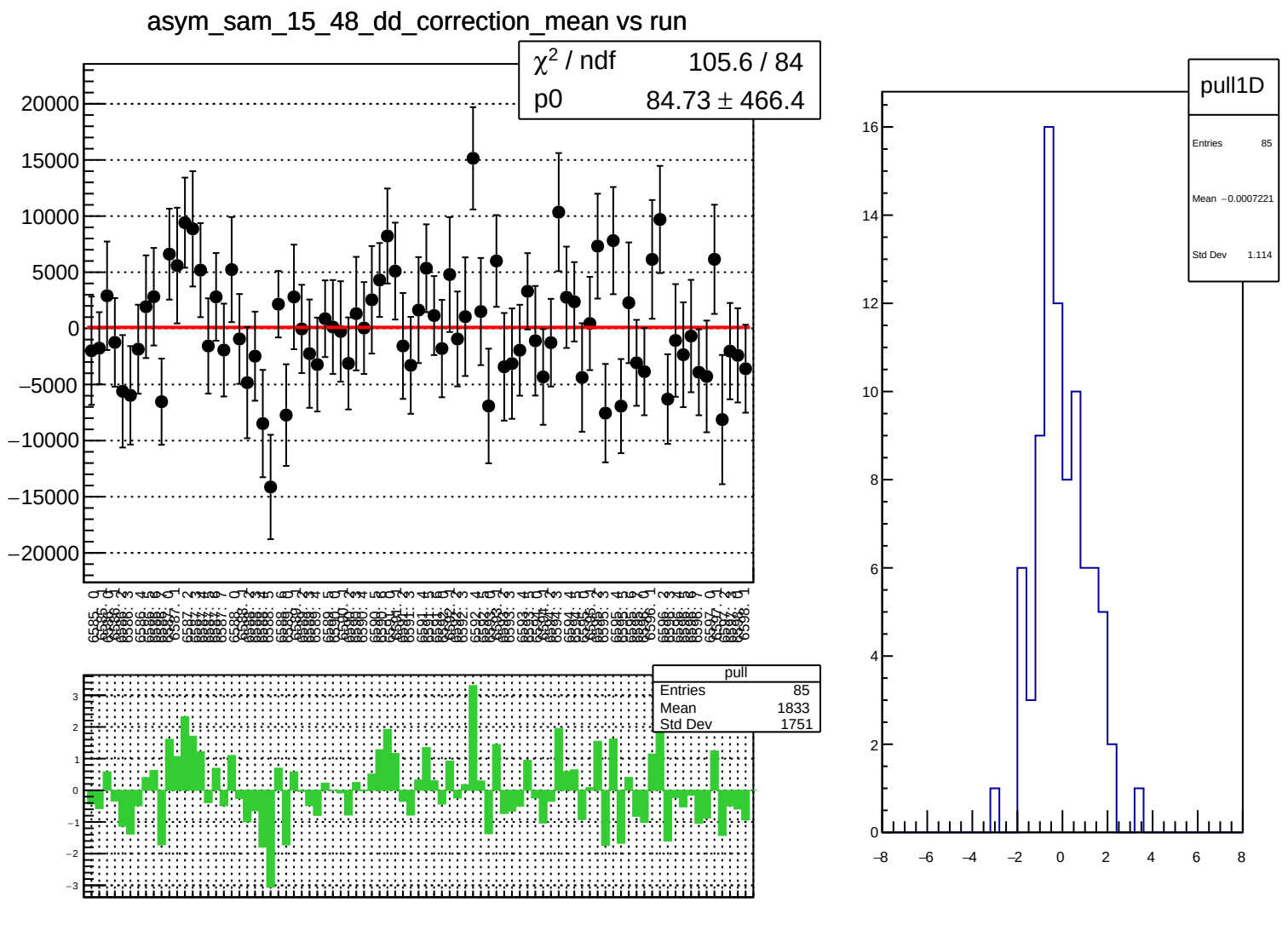
asym_sam_3726_avg_rms vs run



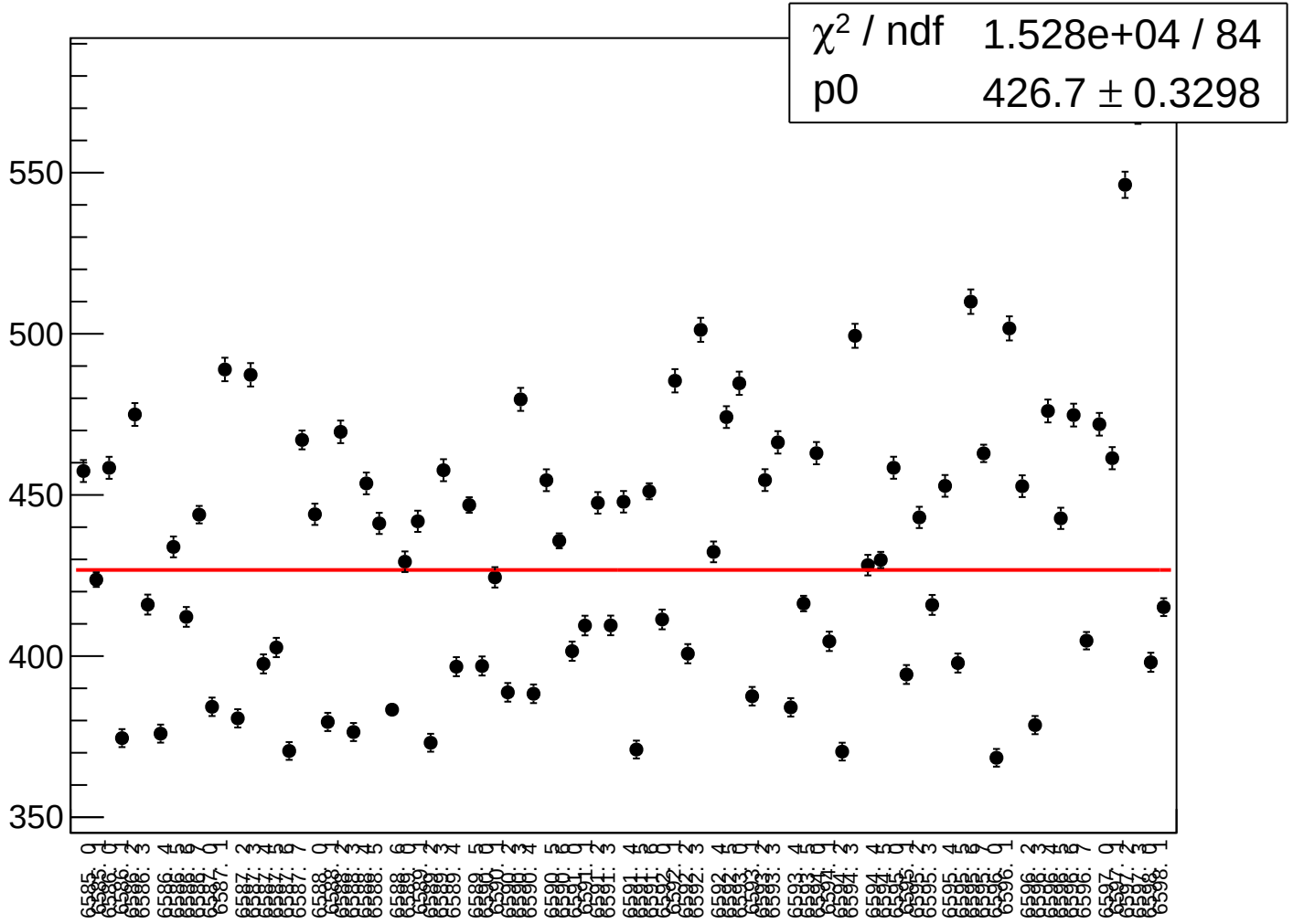

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 93.09 / 84
p0 −10.1 ± 53.13
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 85
Mean −201.9
Std Dev 242.1
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.007178
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

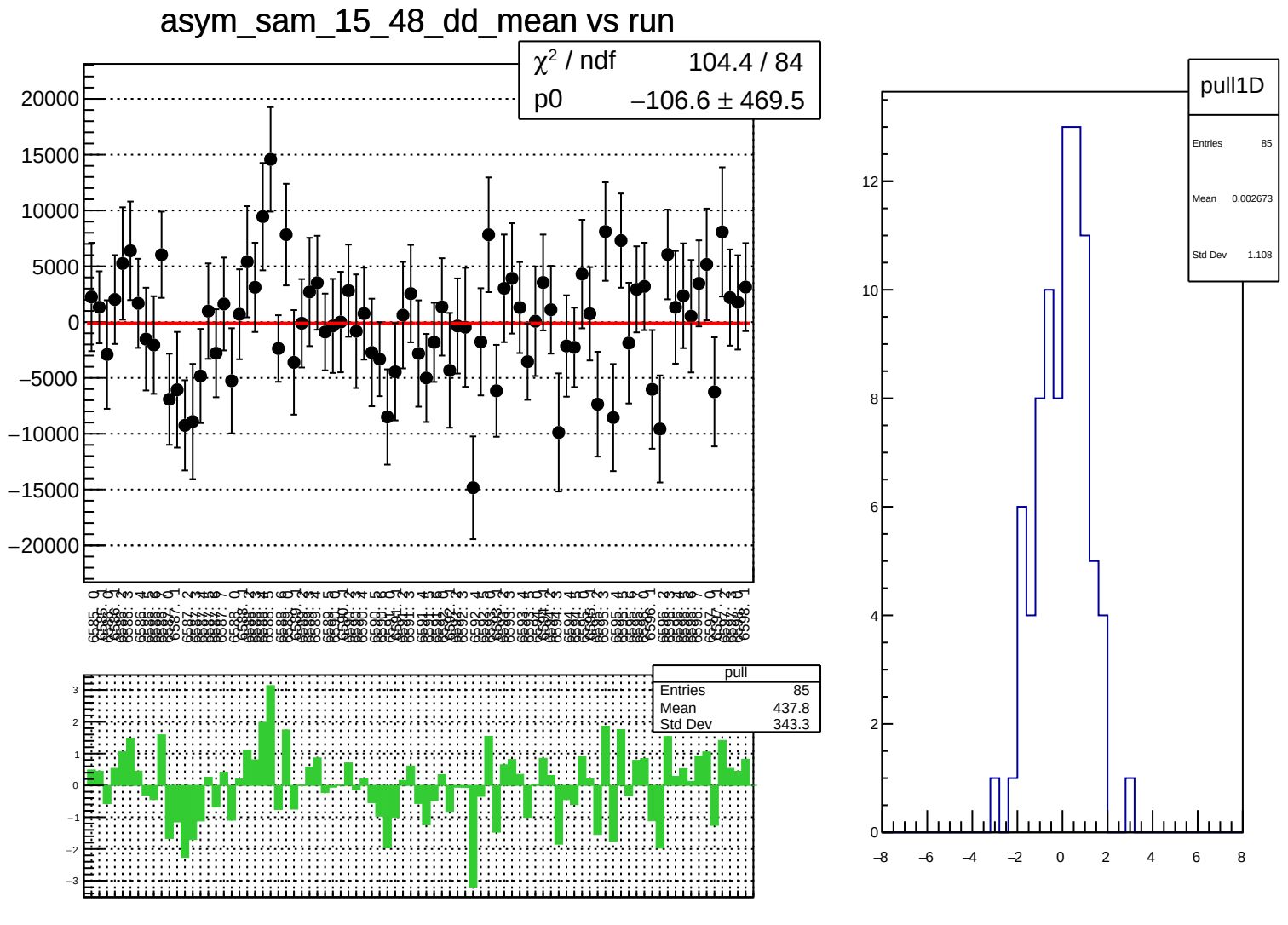
reg_asym_sam_15_48_dd_rms vs run



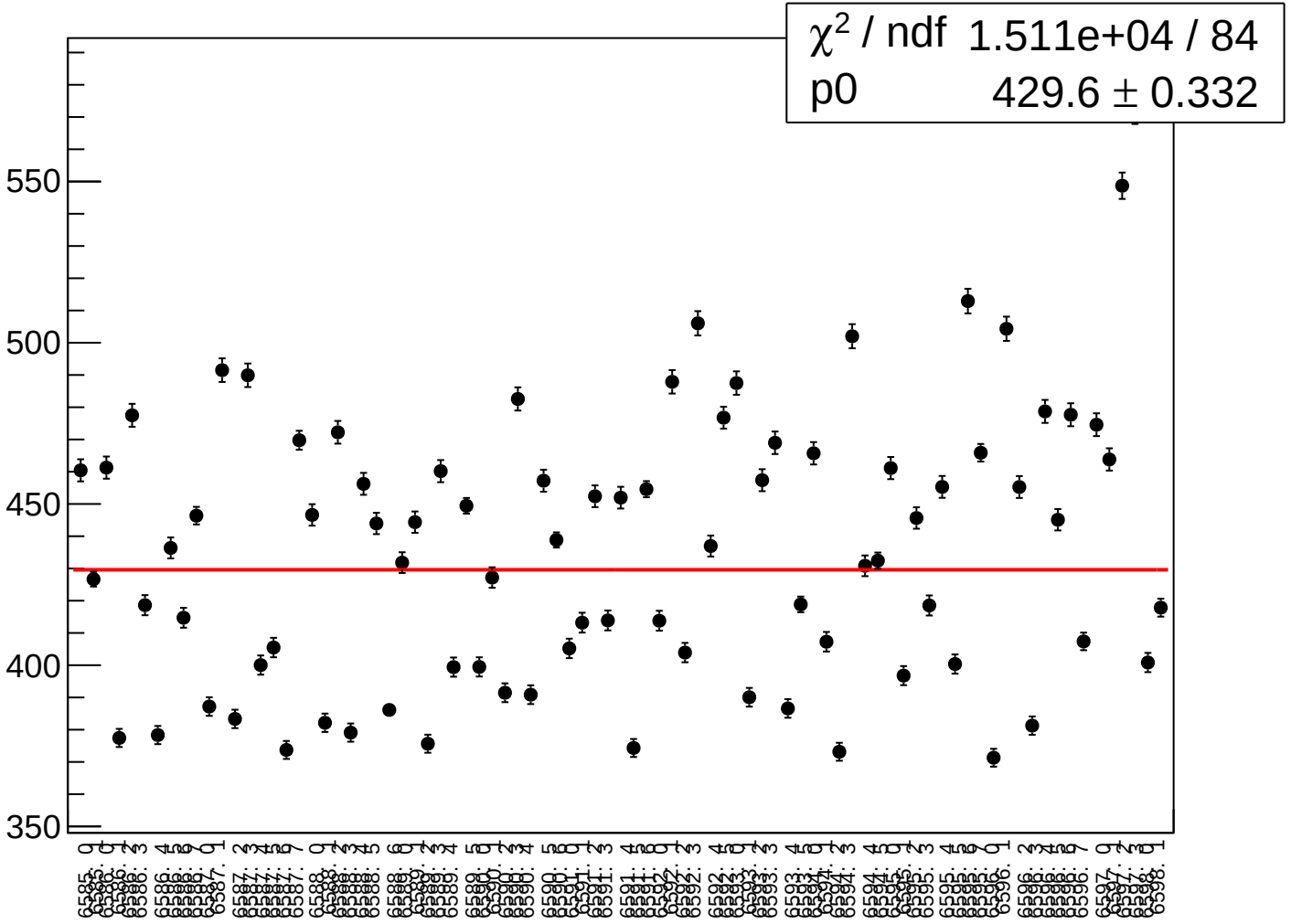

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 105.6 / 84
p0 84.73 ± 466.4
pull
Entries 85
Mean 1833
Std Dev 1751
pull1D
Entries 85
Mean −0.0007221
Std Dev 1.114

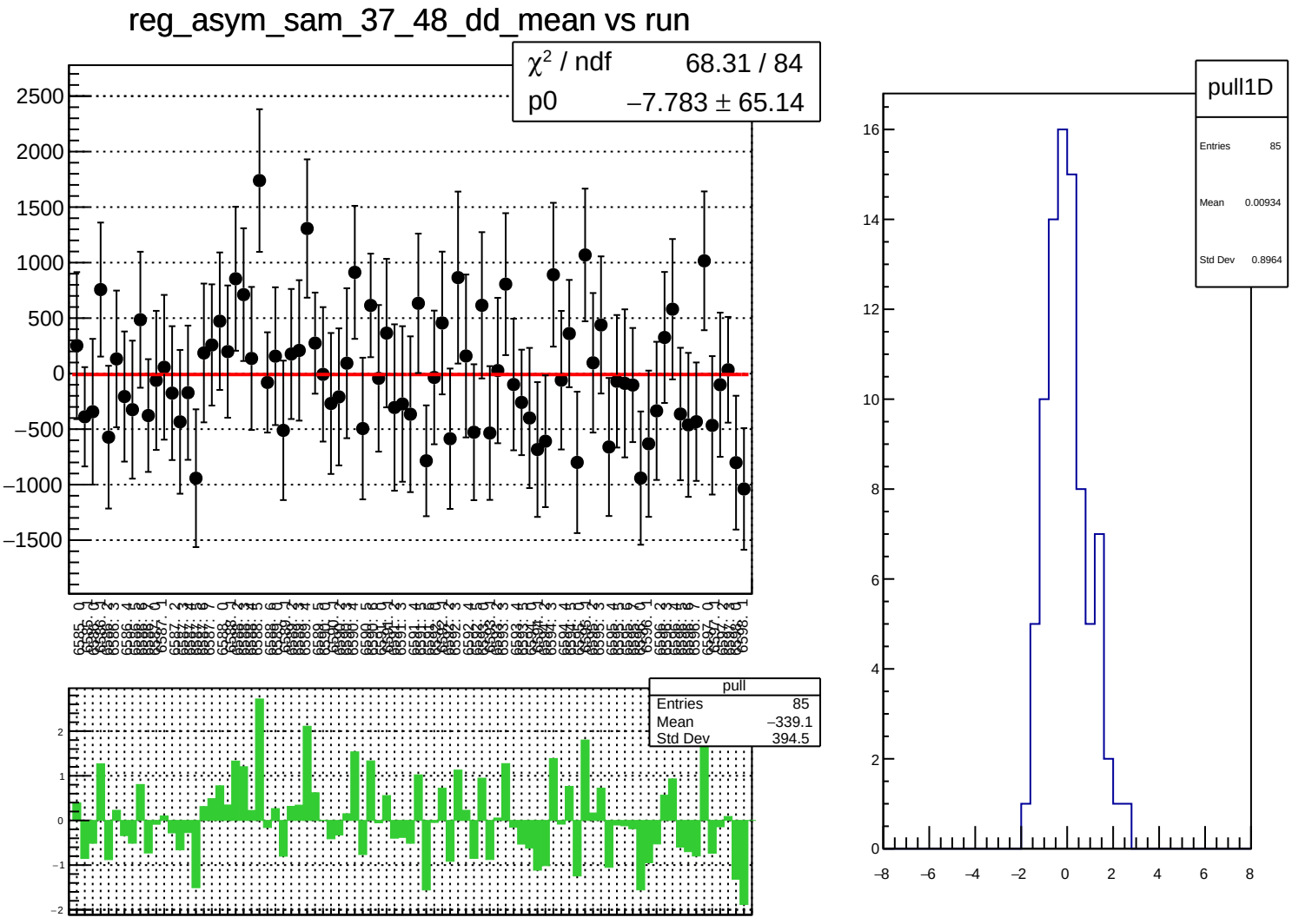
asym_sam_15_48_dd_correction_rms vs run

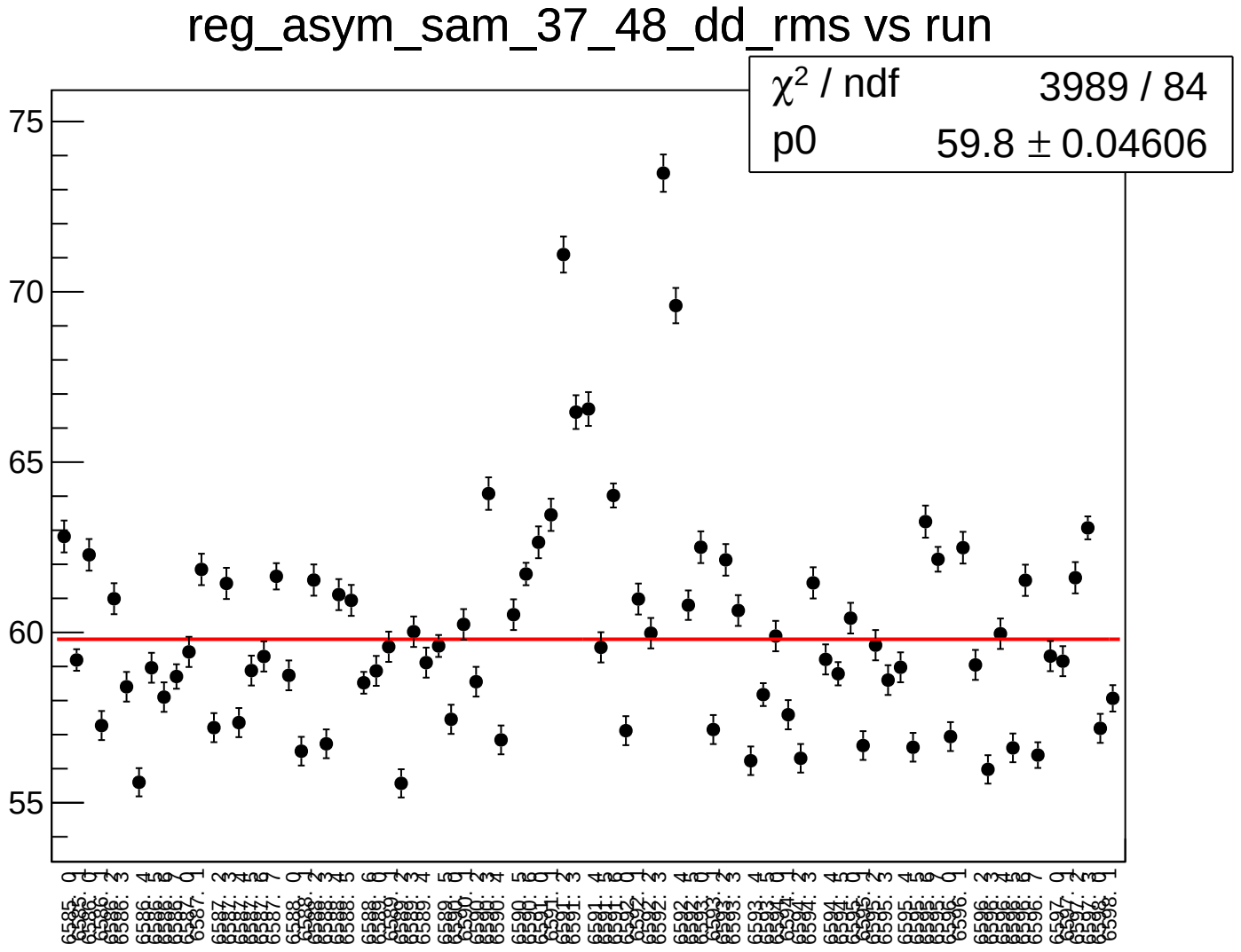


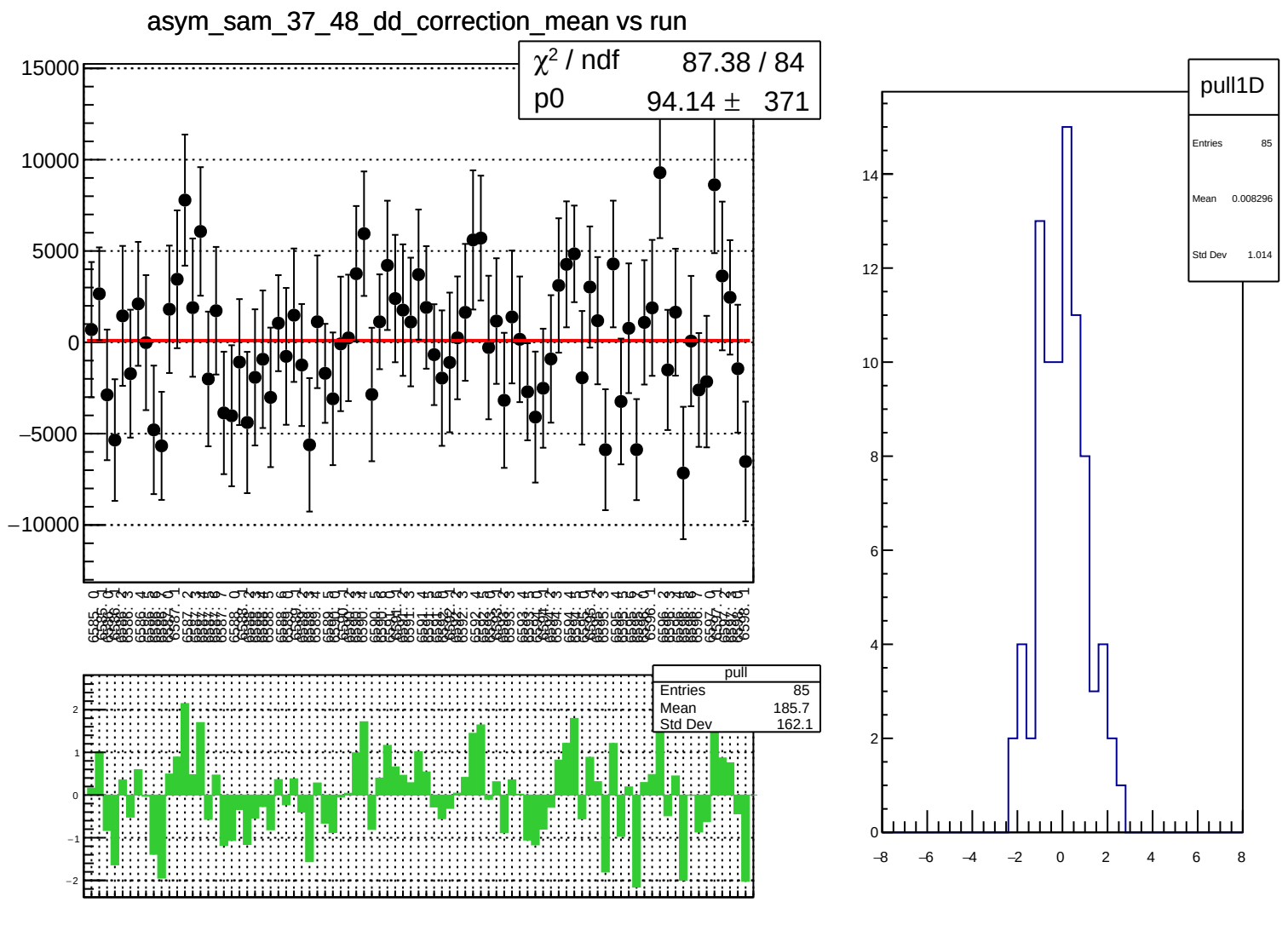

asym_sam_15_48_dd_mean vs run
χ² / ndf 104.4 / 84
p0 −106.6 ± 469.5
pull
Entries 85
Mean 437.8
Std Dev 343.3
pull1D
Entries 85
Mean 0.002673
Std Dev 1.108

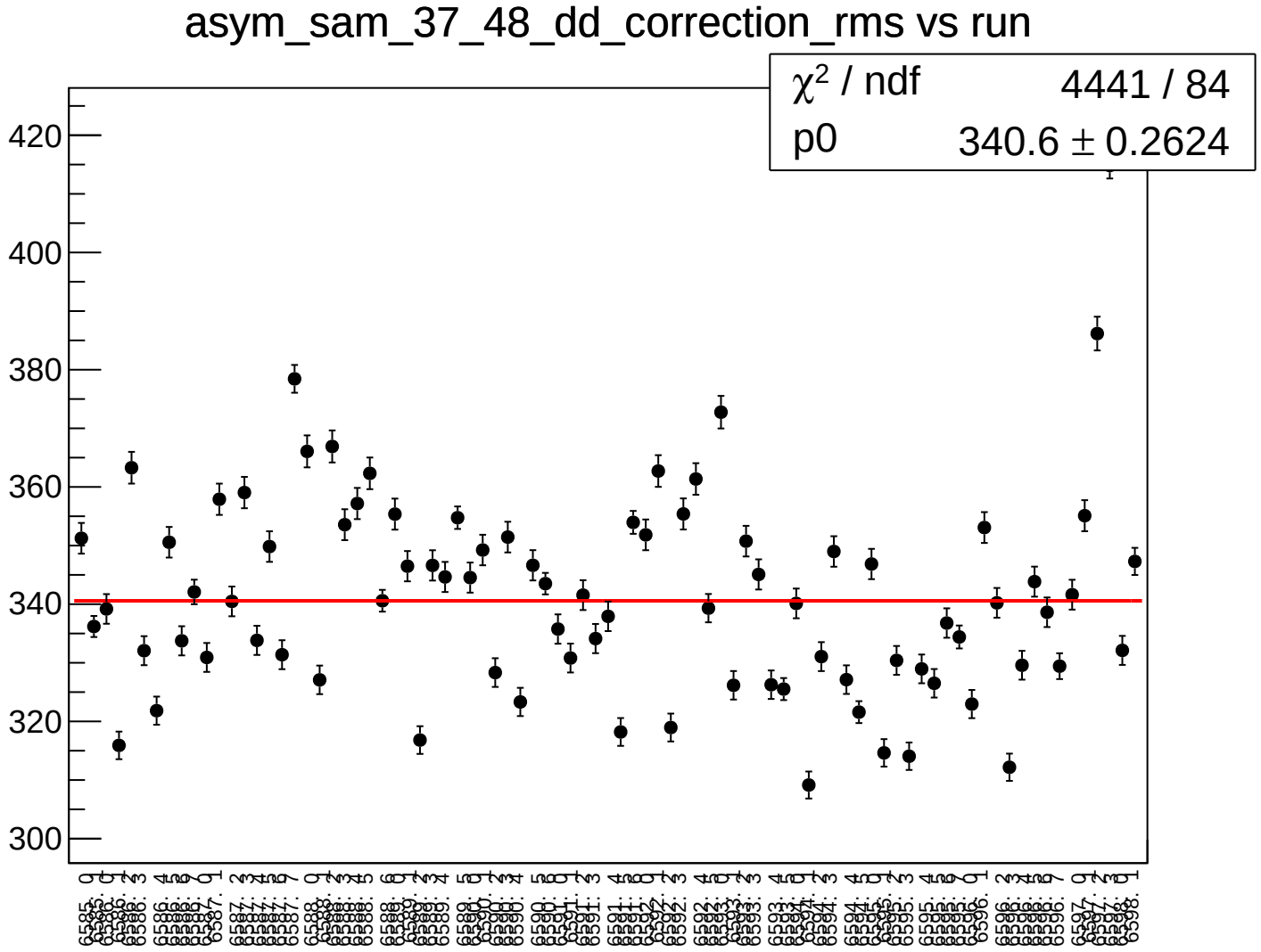
asym_sam_15_48_dd_rms vs run

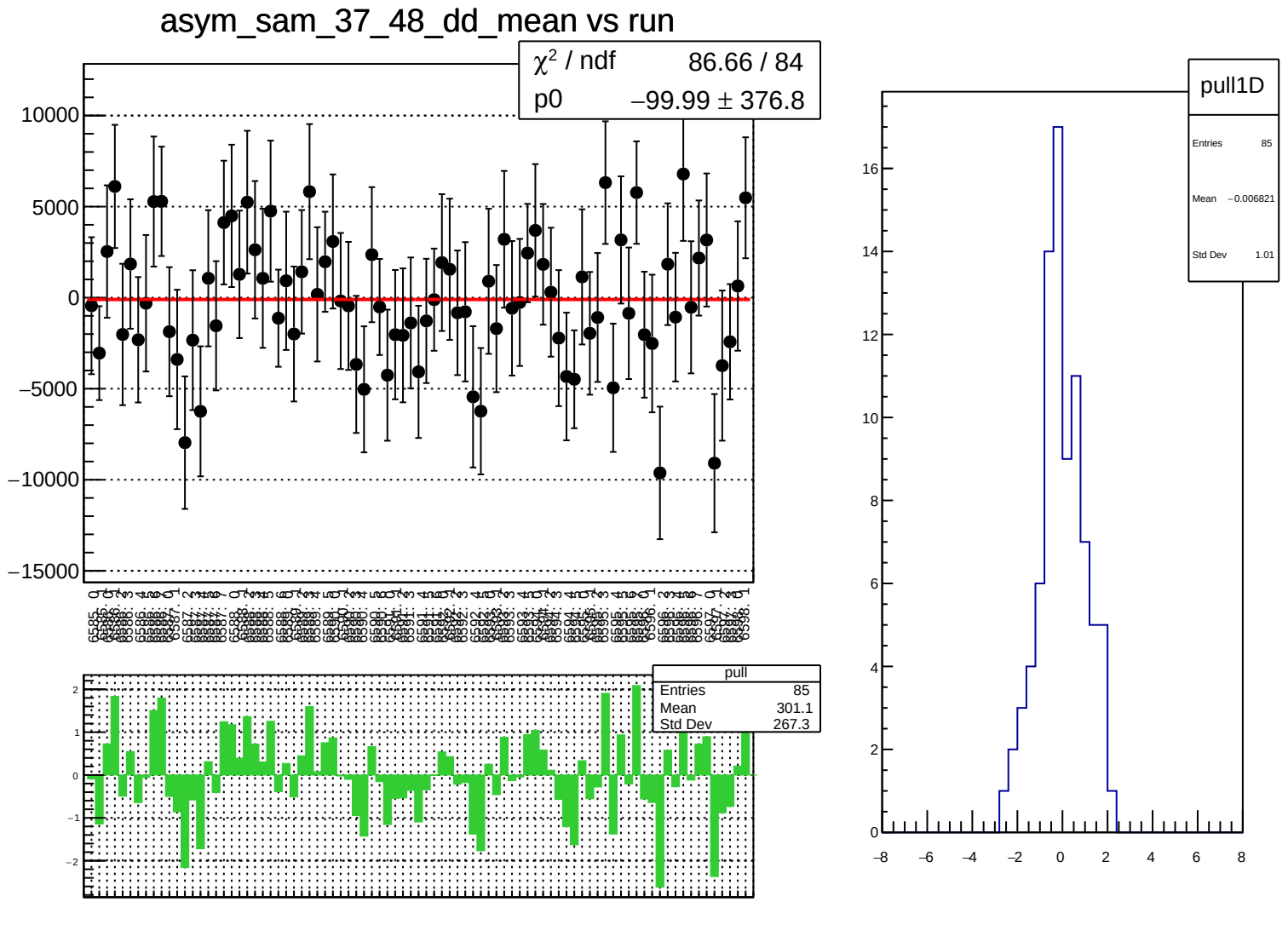



reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 68.31 / 84
p0 −7.783 ± 65.14
pull
Entries 85
Mean −339.1
Std Dev 394.5
pull1D
Entries 85
Mean 0.00934
Std Dev 0.8964

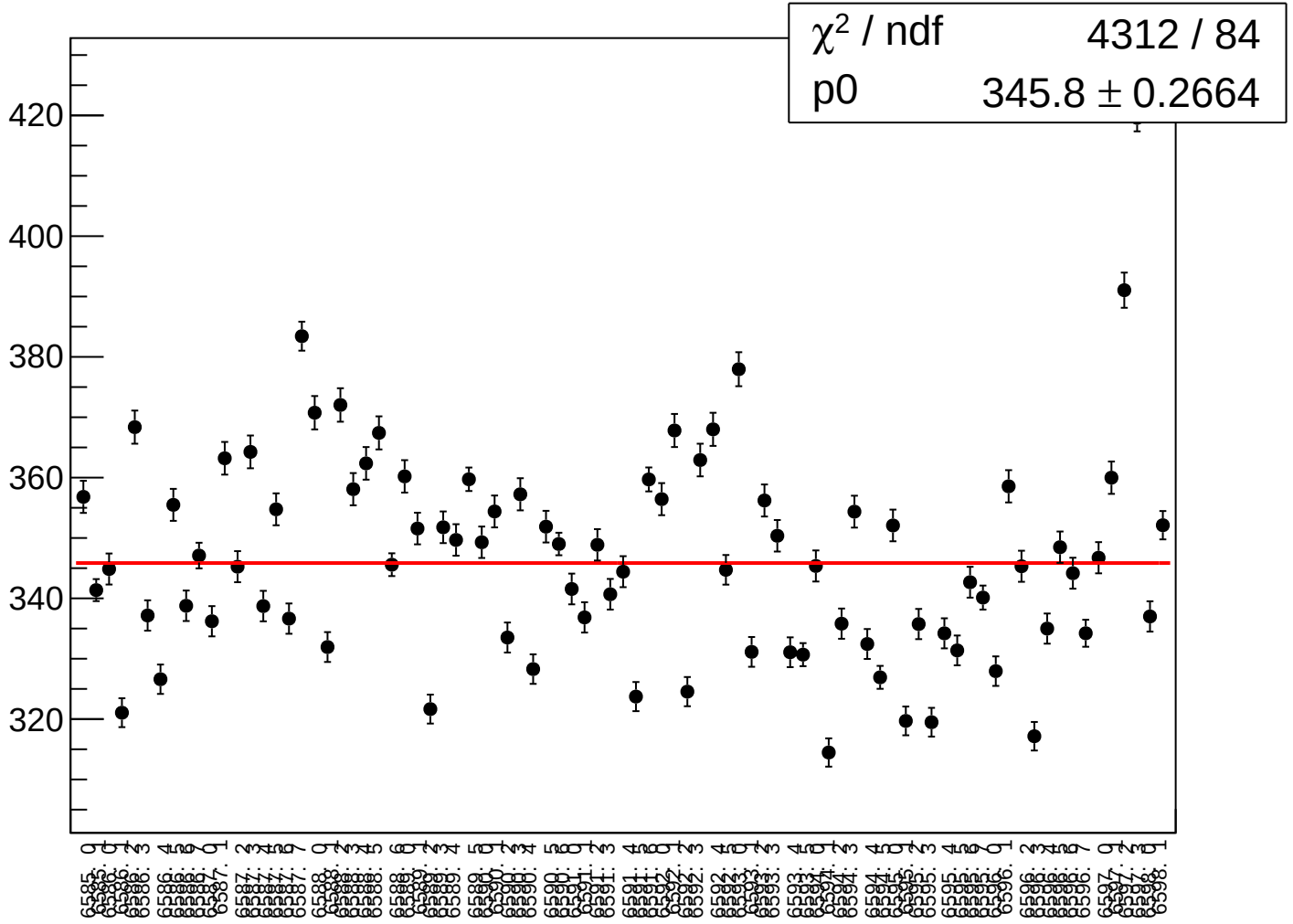

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3989 / 84
p0 59.8 ± 0.04606
75
70
65
60
55

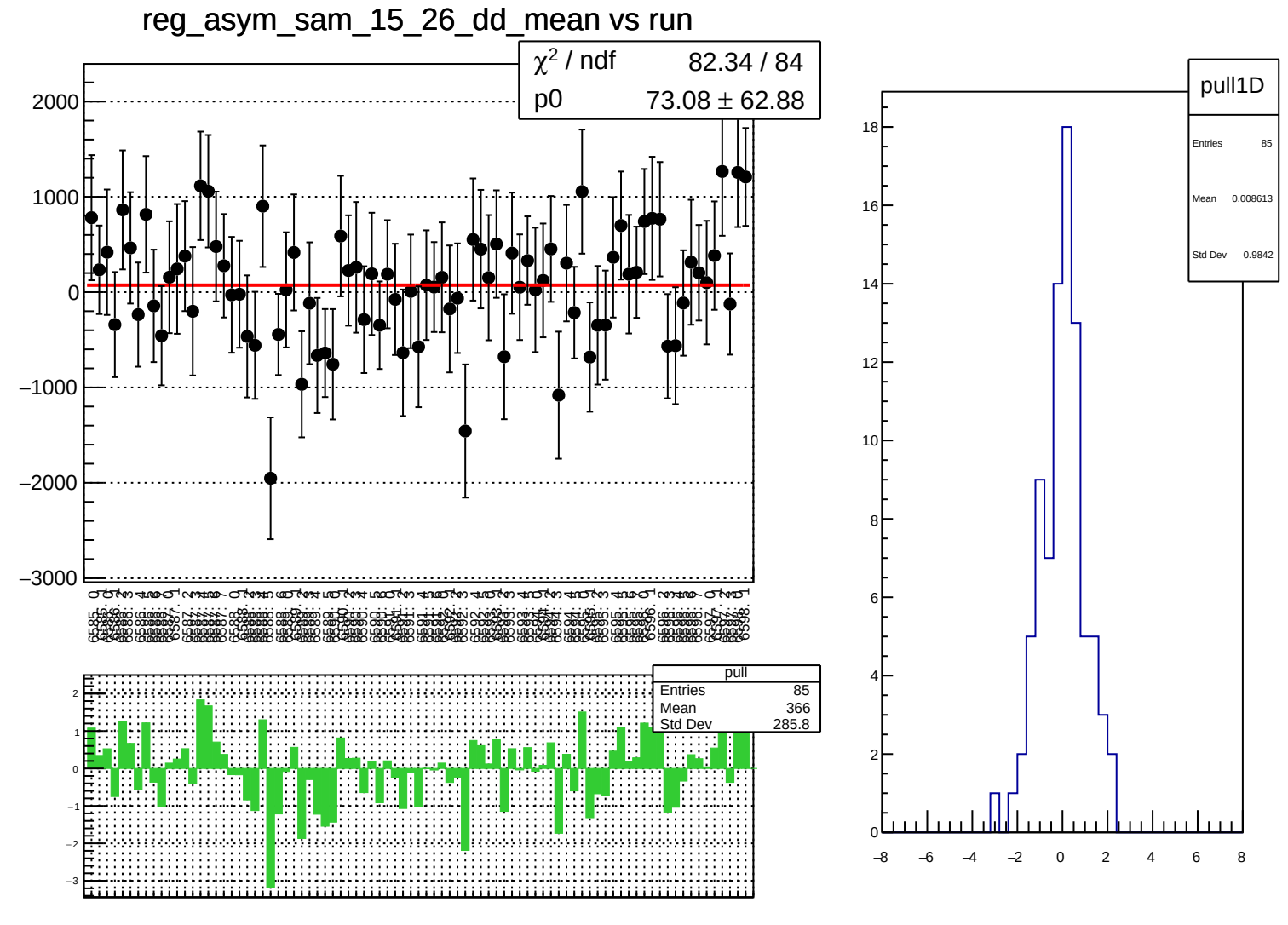

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 87.38 / 84
p0 94.14 ± 371
pull
Entries 85
Mean 185.7
Std Dev 162.1
pull1D
Entries 85
Mean 0.008296
Std Dev 1.014


asym_sam_37_48_dd_correction_rms vs run
χ^2 / ndf 4441 / 84
p0 340.6 ± 0.2624
420
400
380
360
340
320
300

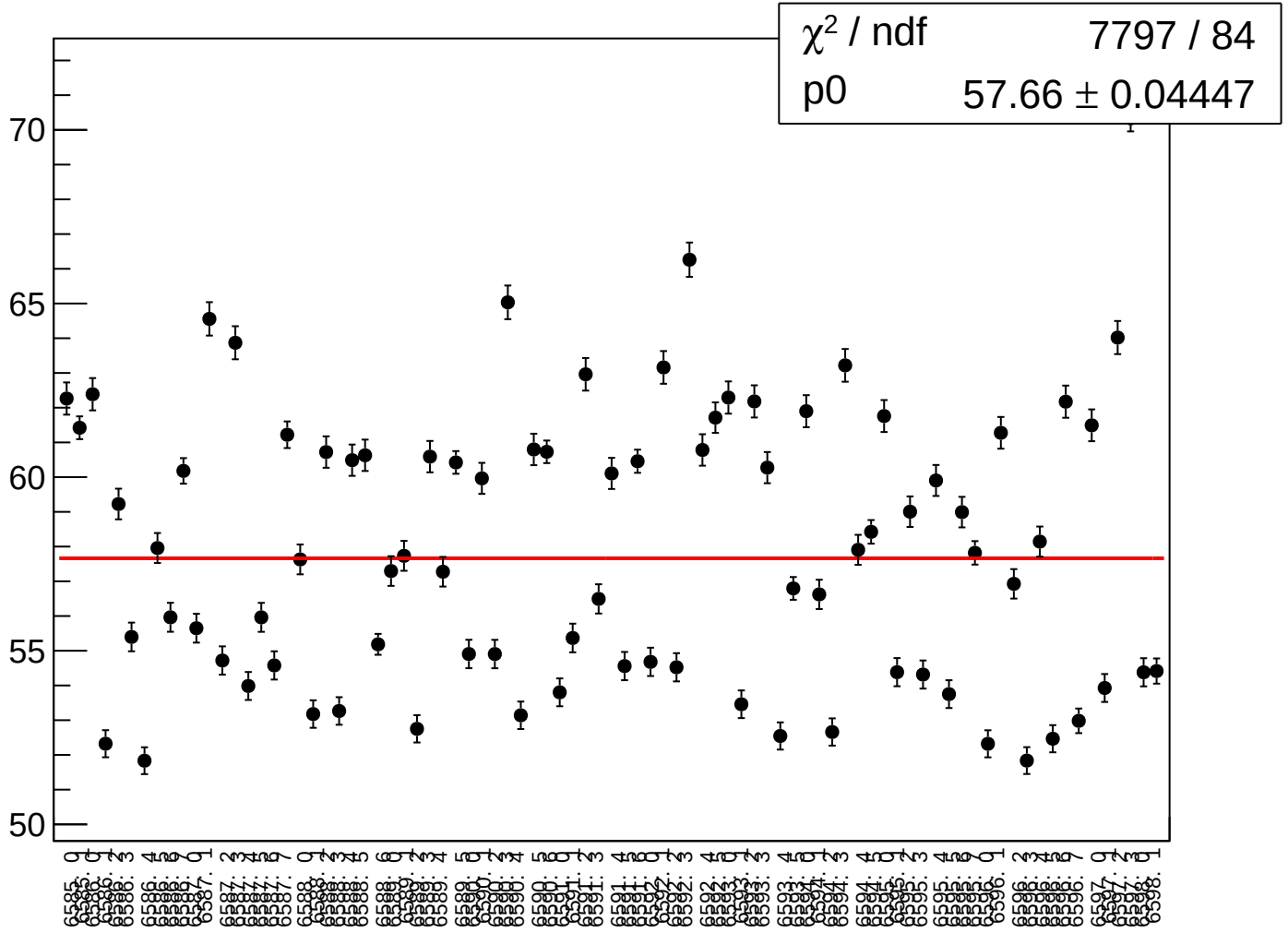

asym_sam_37_48_dd_mean vs run
χ² / ndf 86.66 / 84
p0 −99.99 ± 376.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 301.1
Std Dev 267.3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.006821
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

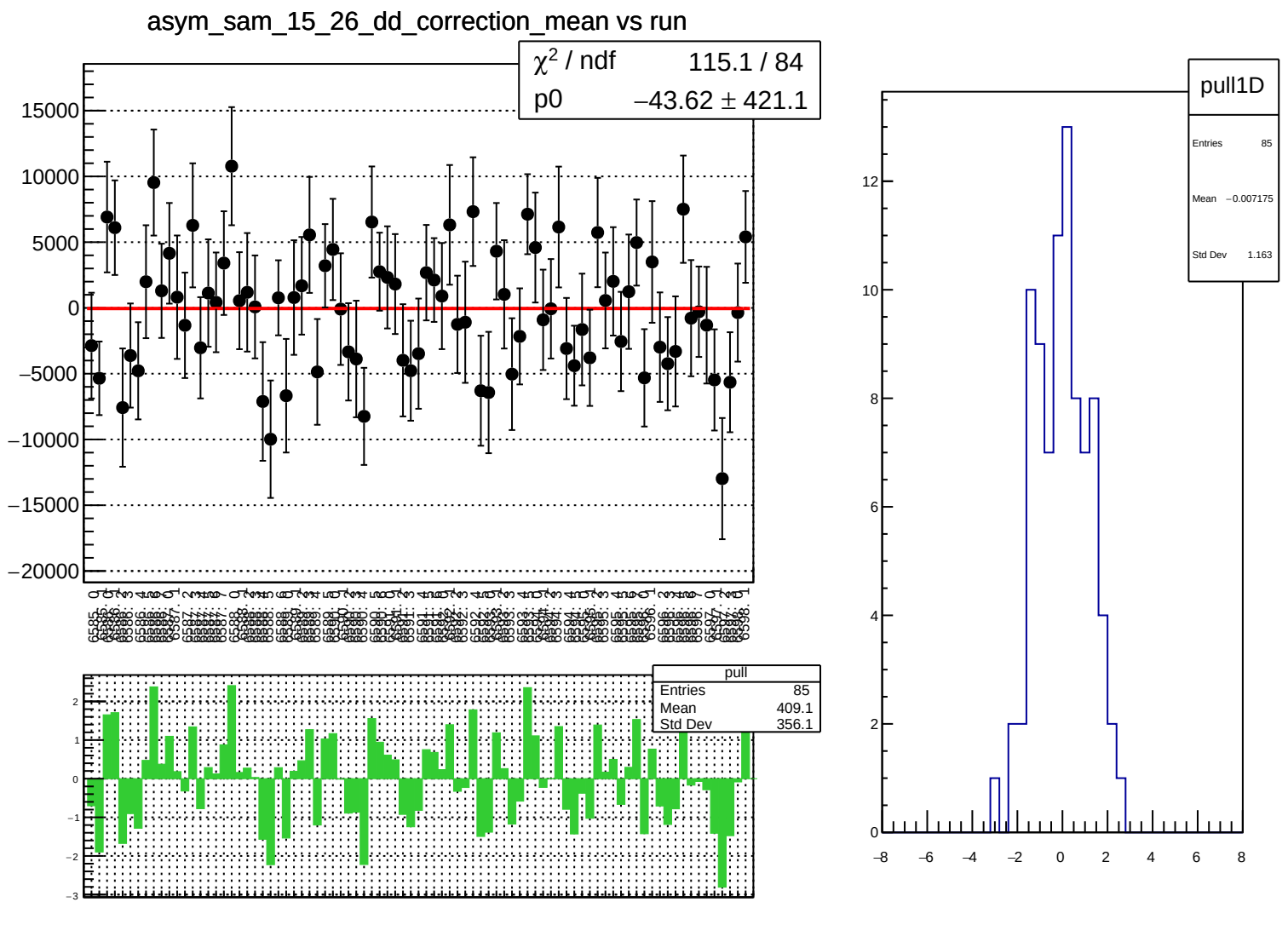
asym_sam_37_48_dd_rms vs run



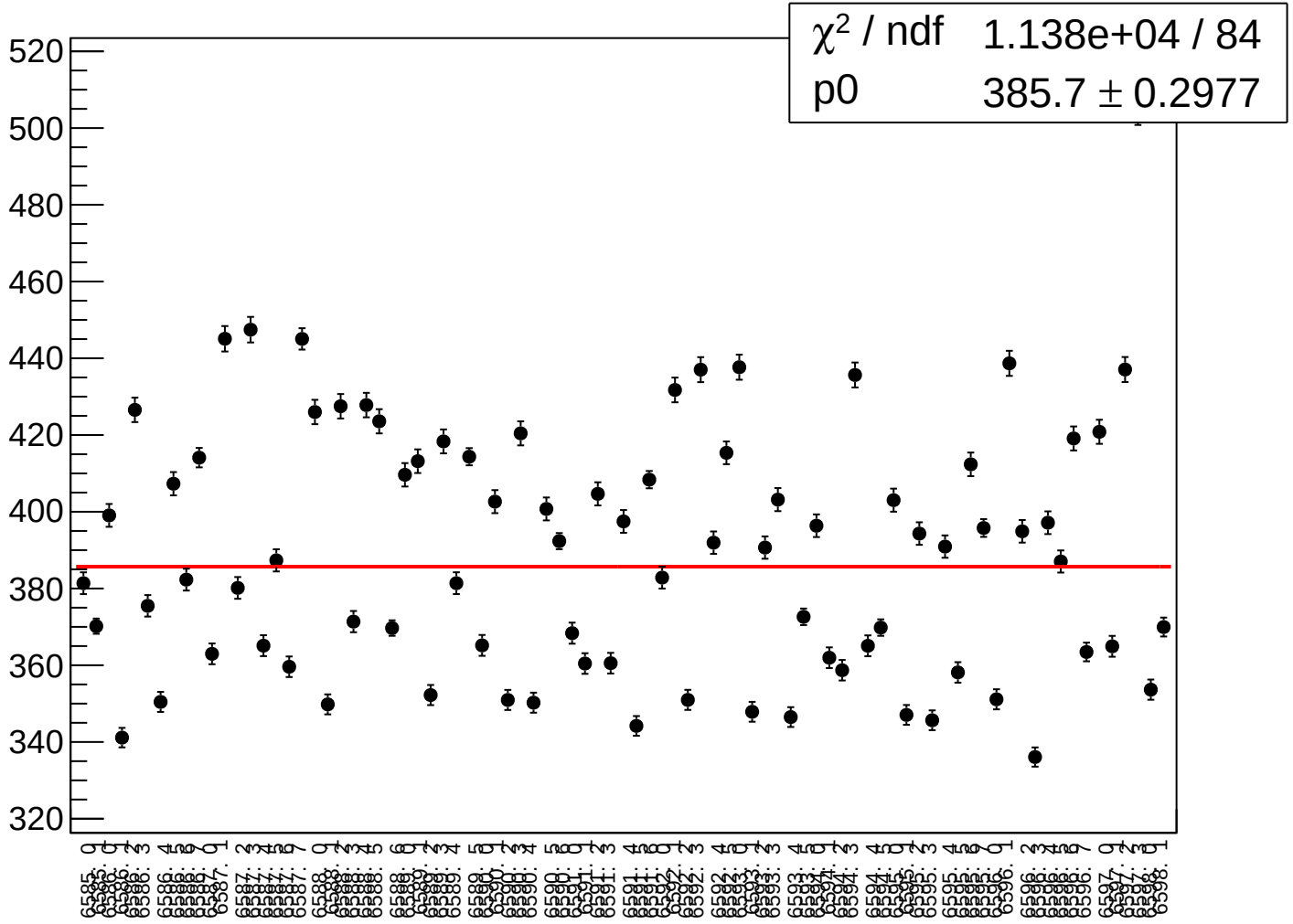

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.34 / 84
p0 73.08 ± 62.88
pull
Entries 85
Mean 366
Std Dev 285.8
pull1D
Entries 85
Mean 0.008613
Std Dev 0.9842

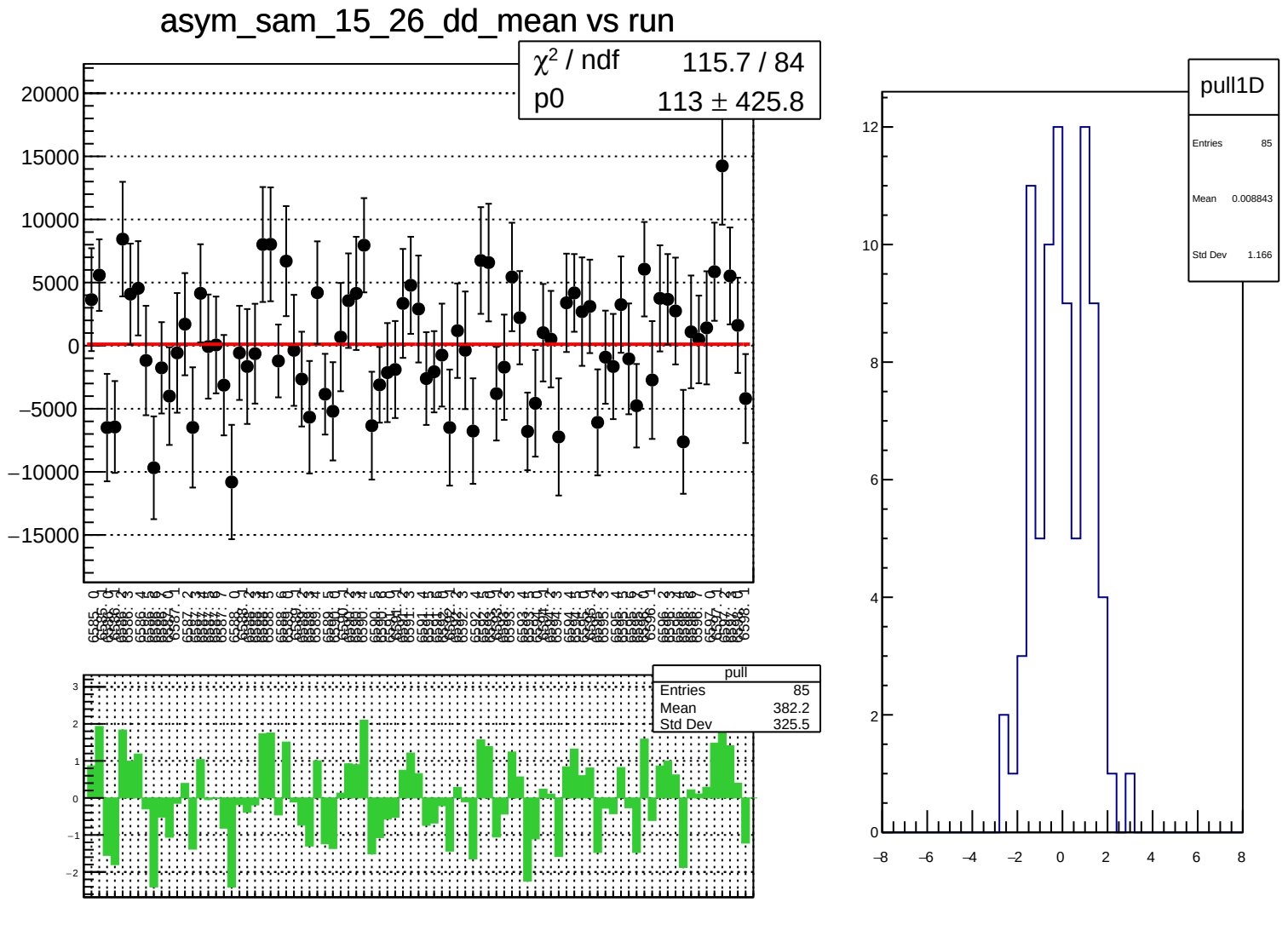
reg_asym_sam_15_26_dd_rms vs run

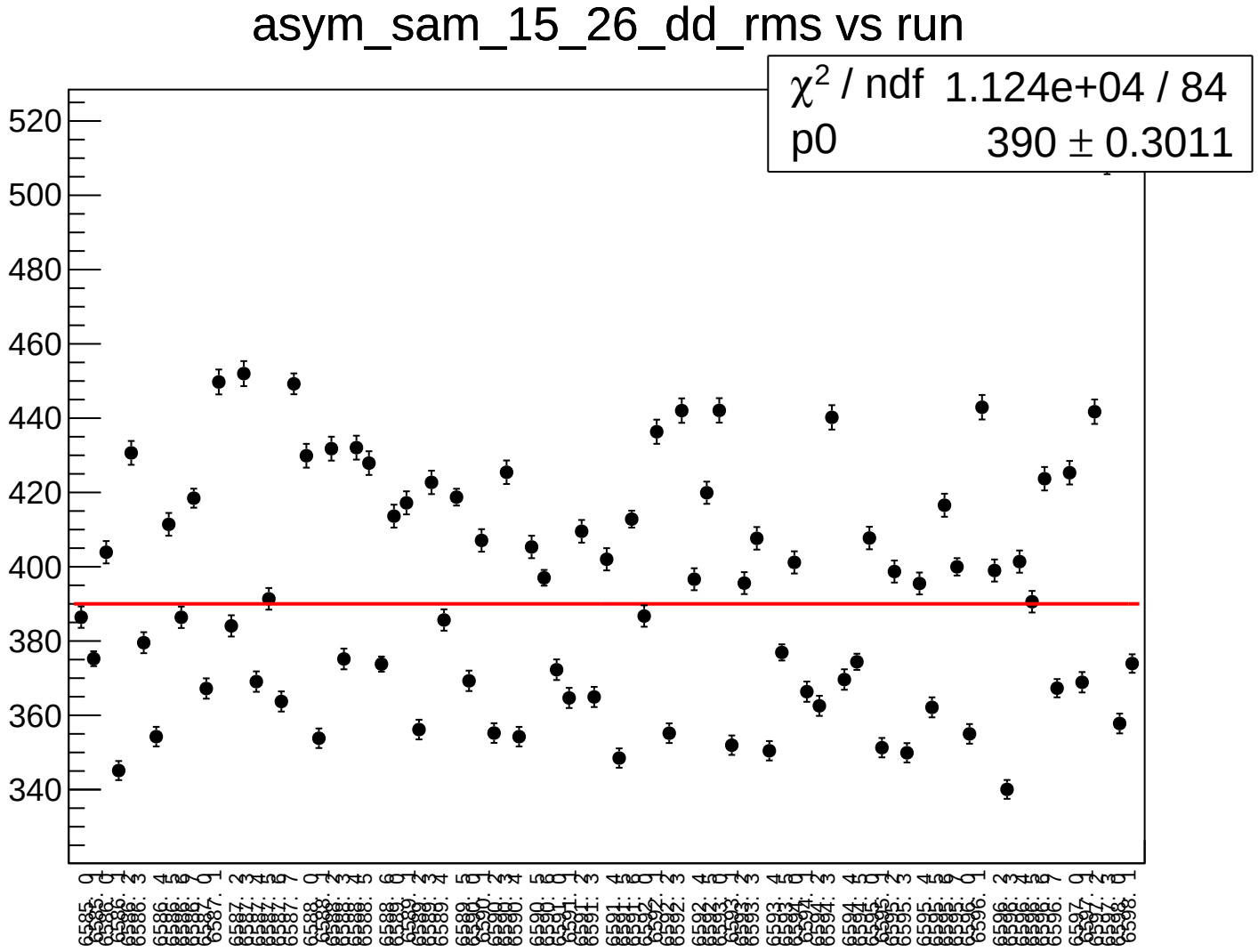


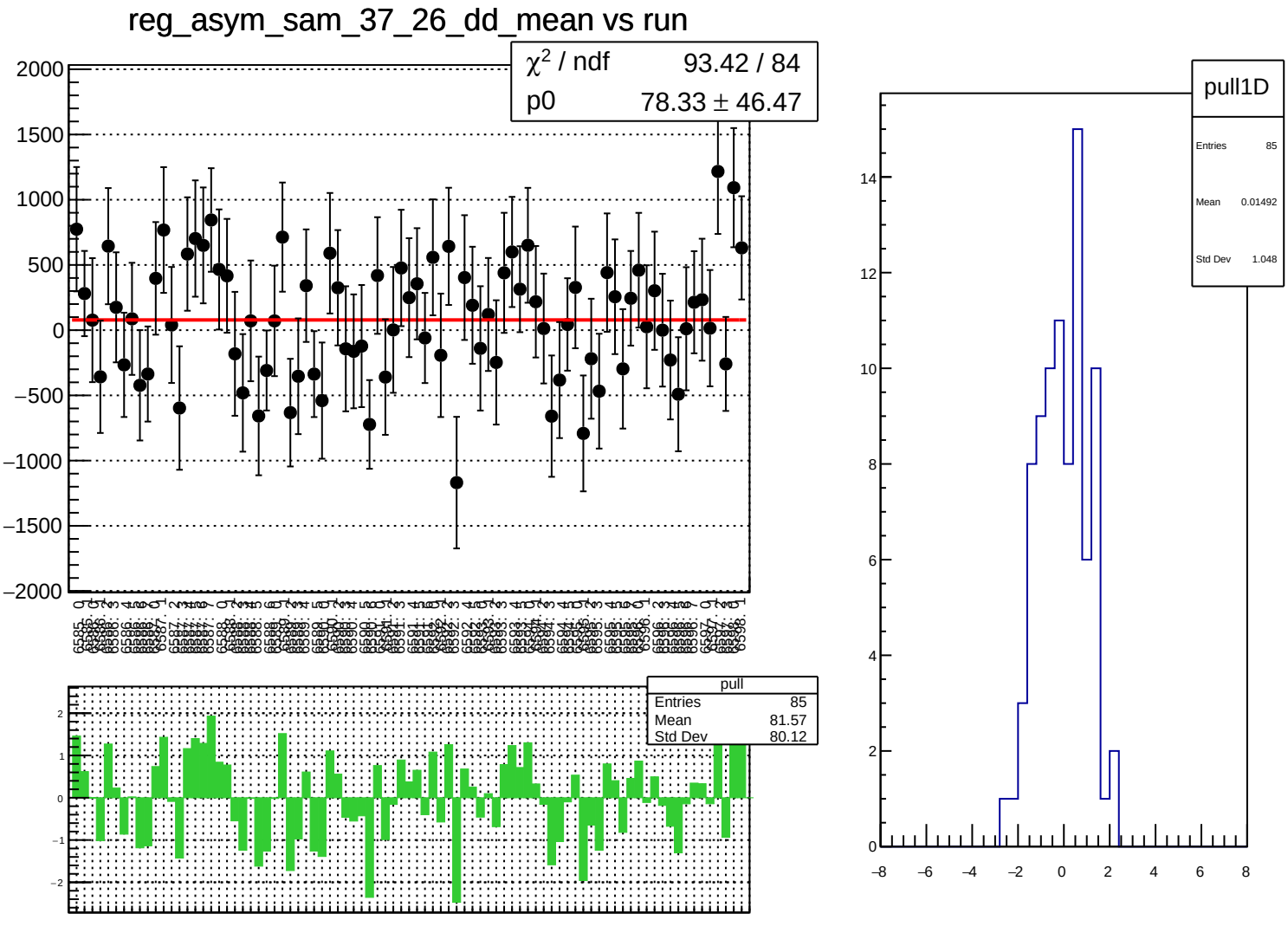

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 115.1 / 84
p0 −43.62 ± 421.1
pull
Entries 85
Mean 409.1
Std Dev 356.1
pull1D
Entries 85
Mean −0.007175
Std Dev 1.163

asym_sam_15_26_dd_correction_rms vs run

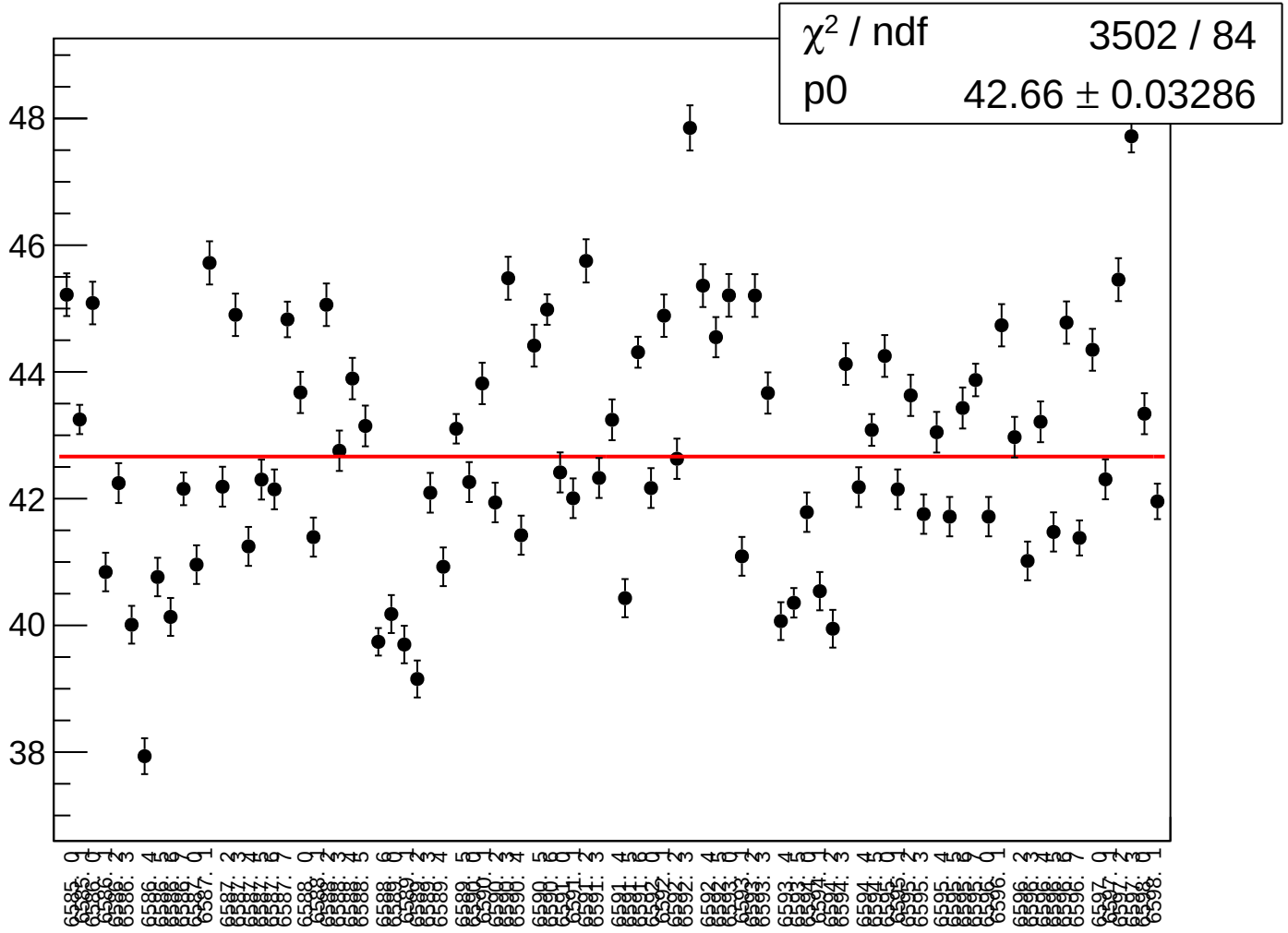


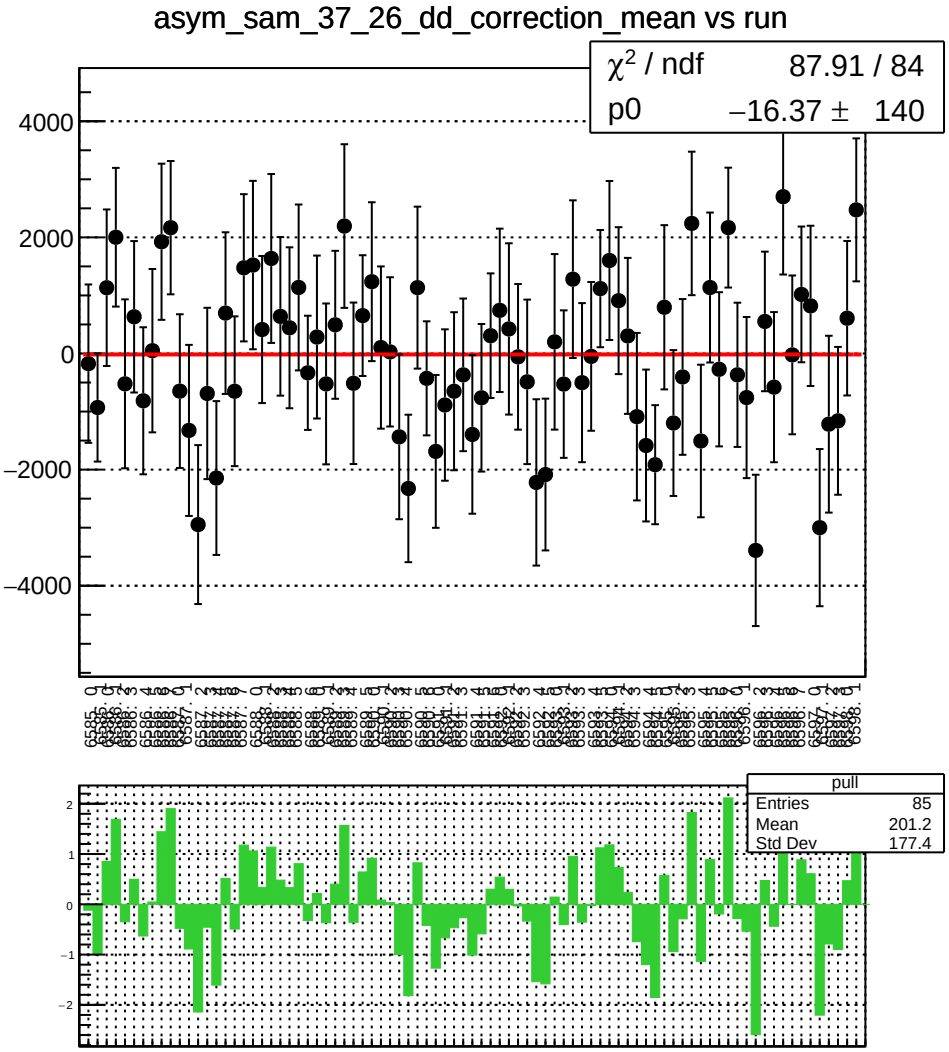

asym_sam_15_26_dd_mean vs run
χ² / ndf 115.7 / 84
p0 113 ± 425.8
pull
Entries 85
Mean 382.2
Std Dev 325.5
pull1D
Entries 85
Mean 0.008843
Std Dev 1.166

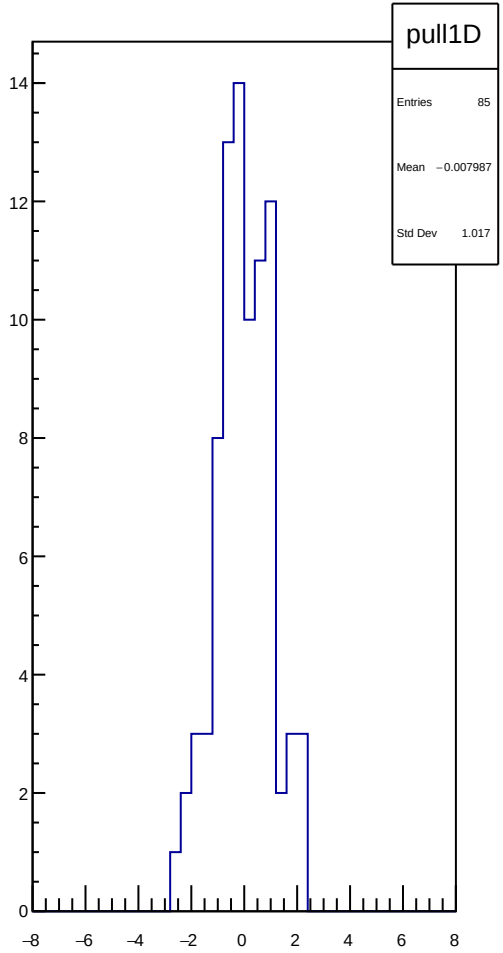

asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.124e+04 / 84
p0 390 ± 0.3011
520
500
480
460
440
420
400
380
360
340


reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 93.42 / 84
p0 78.33 ± 46.47
pull
Entries 85
Mean 81.57
Std Dev 80.12
pull1D
Entries 85
Mean 0.01492
Std Dev 1.048

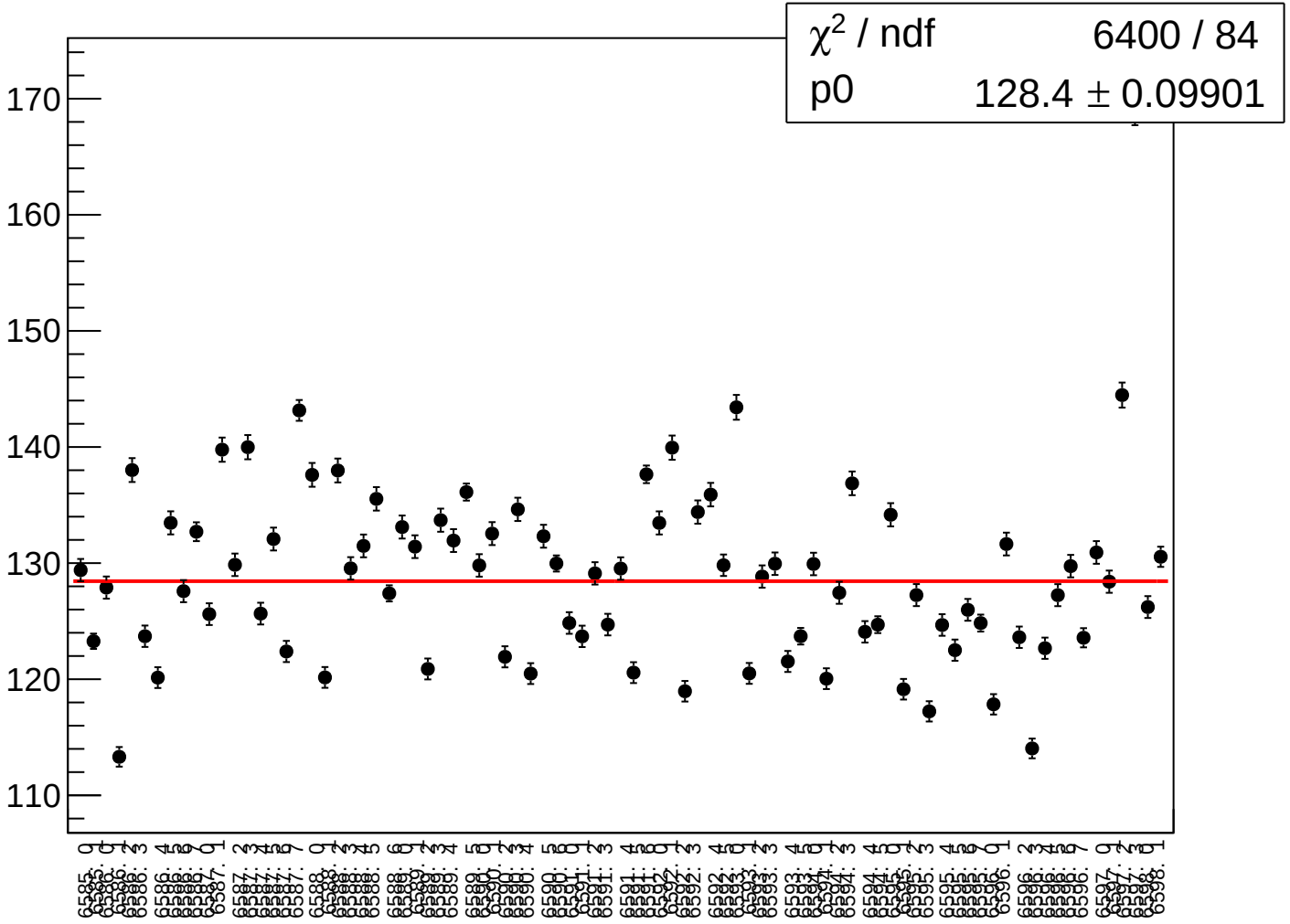
reg_asym_sam_37_26_dd_rms vs run

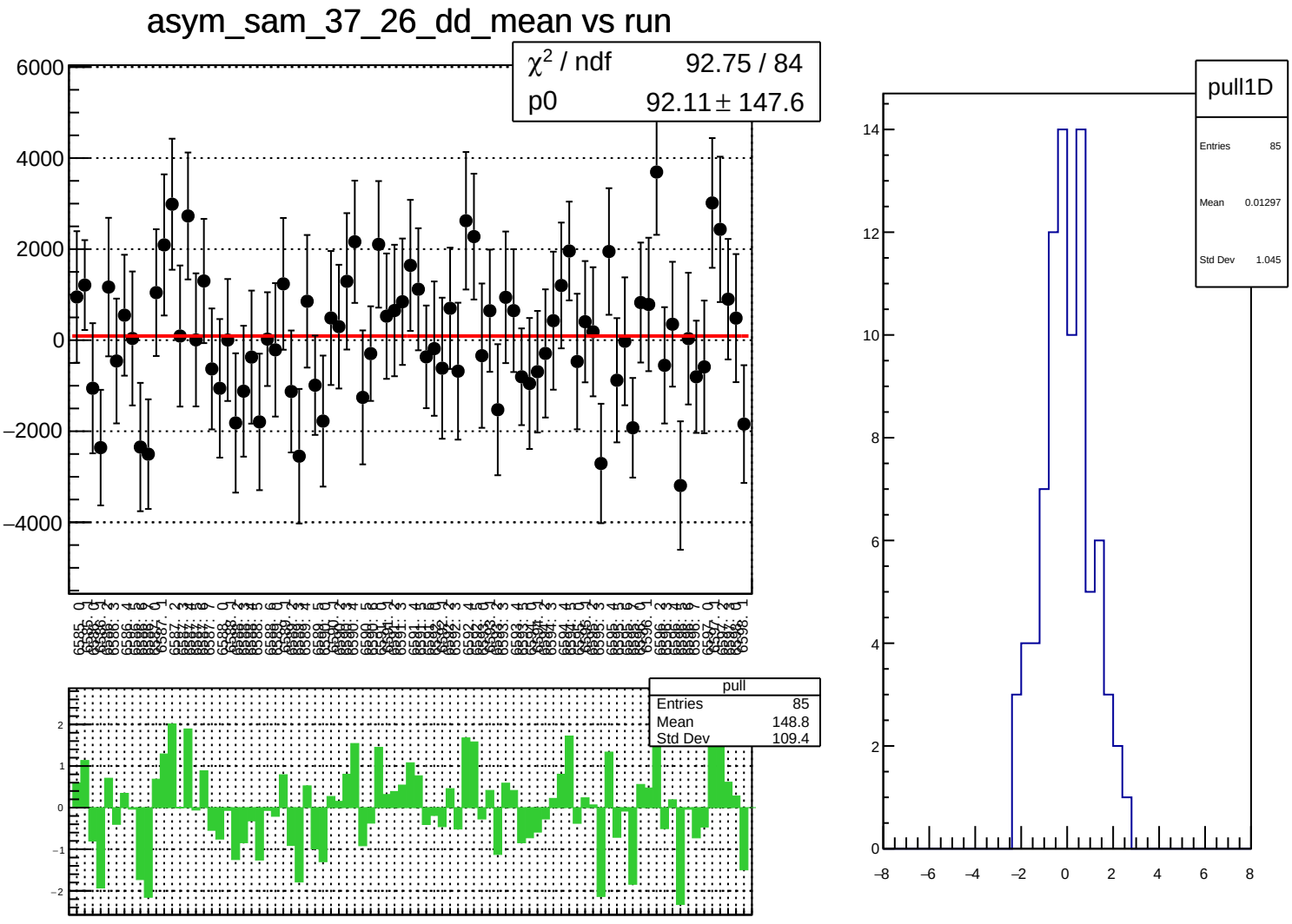



asym_sam_37_26_dd_correction_mean vs run
χ^2 / ndf 87.91 / 84
p0 −16.37 ± 140
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 201.2
Std Dev 177.4
2
1
0
−1
−2

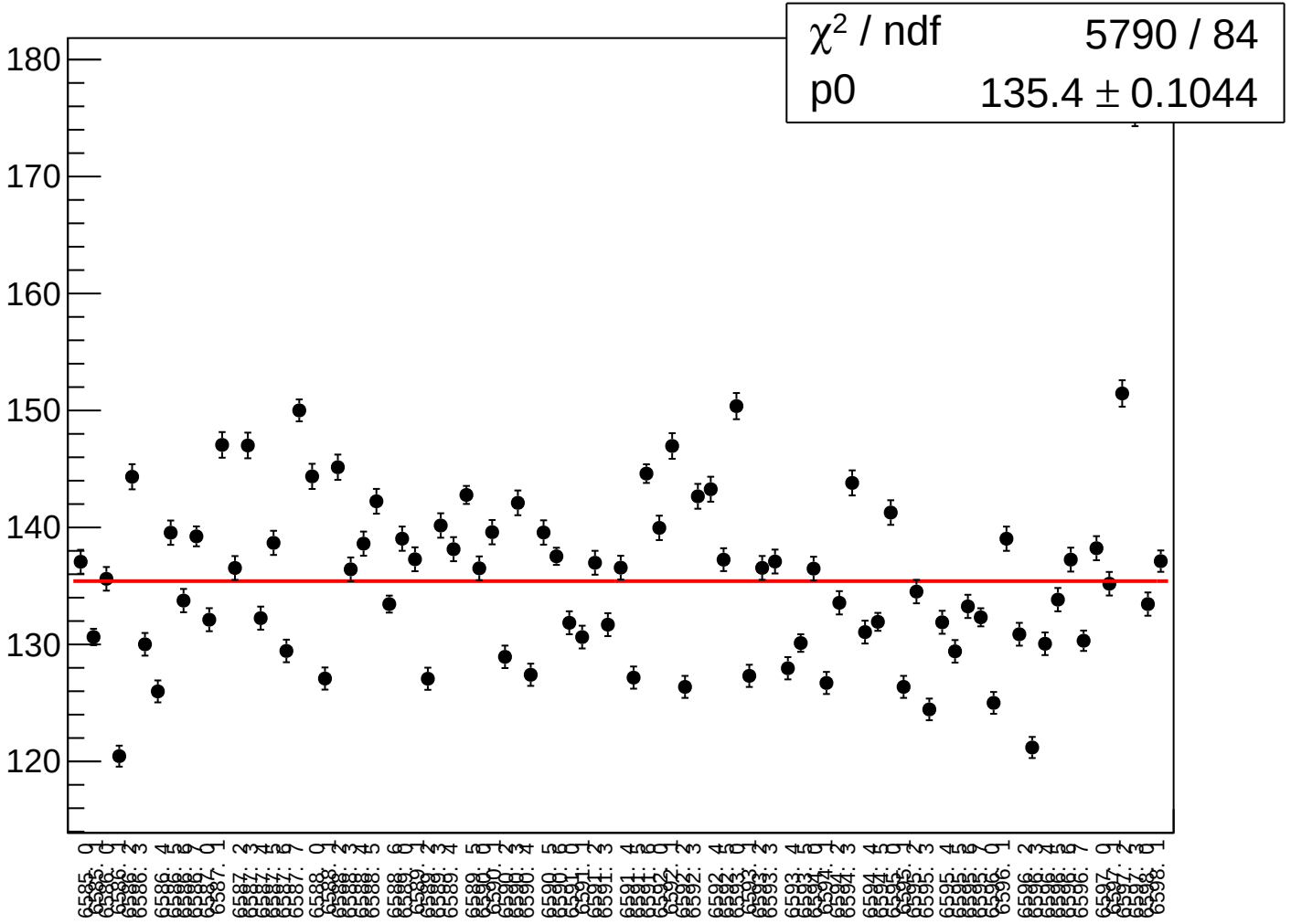

pull1D
Entries 85
Mean −0.007987
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

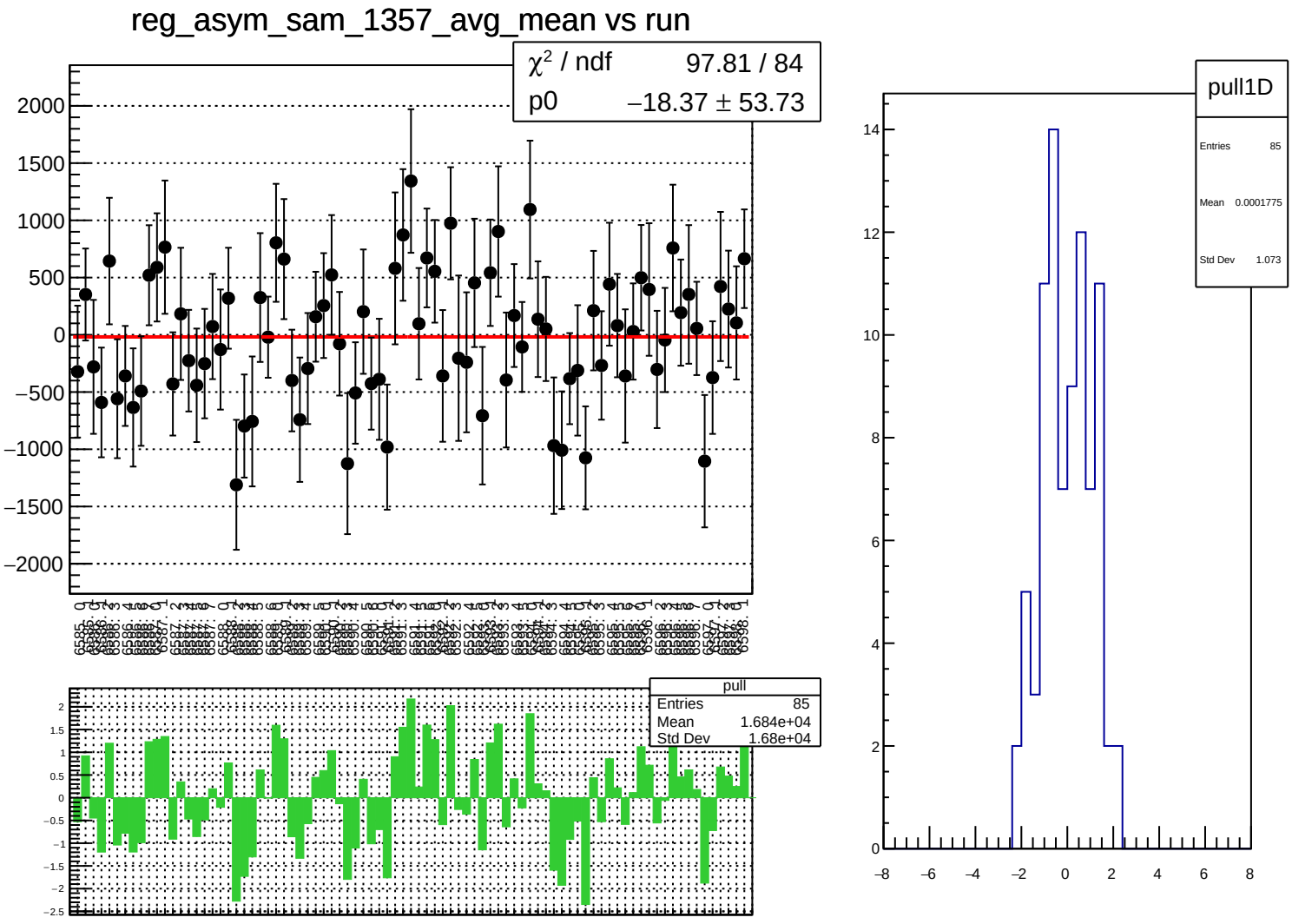
asym_sam_37_26_dd_correction_rms vs run



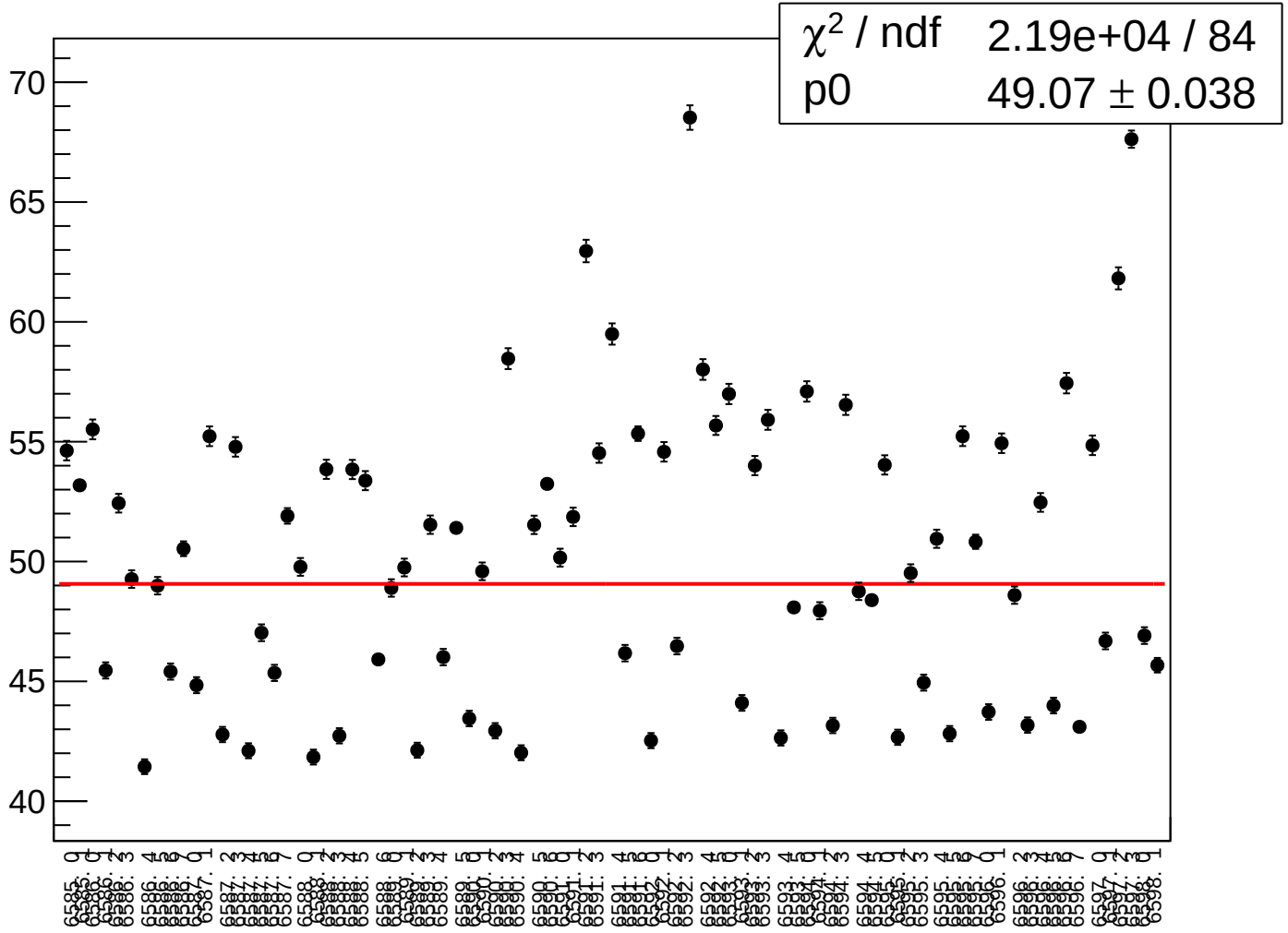

asym_sam_37_26_dd_mean vs run
χ^2 / ndf 92.75 / 84
p0 92.11 ± 147.6
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 148.8
Std Dev 109.4
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01297
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

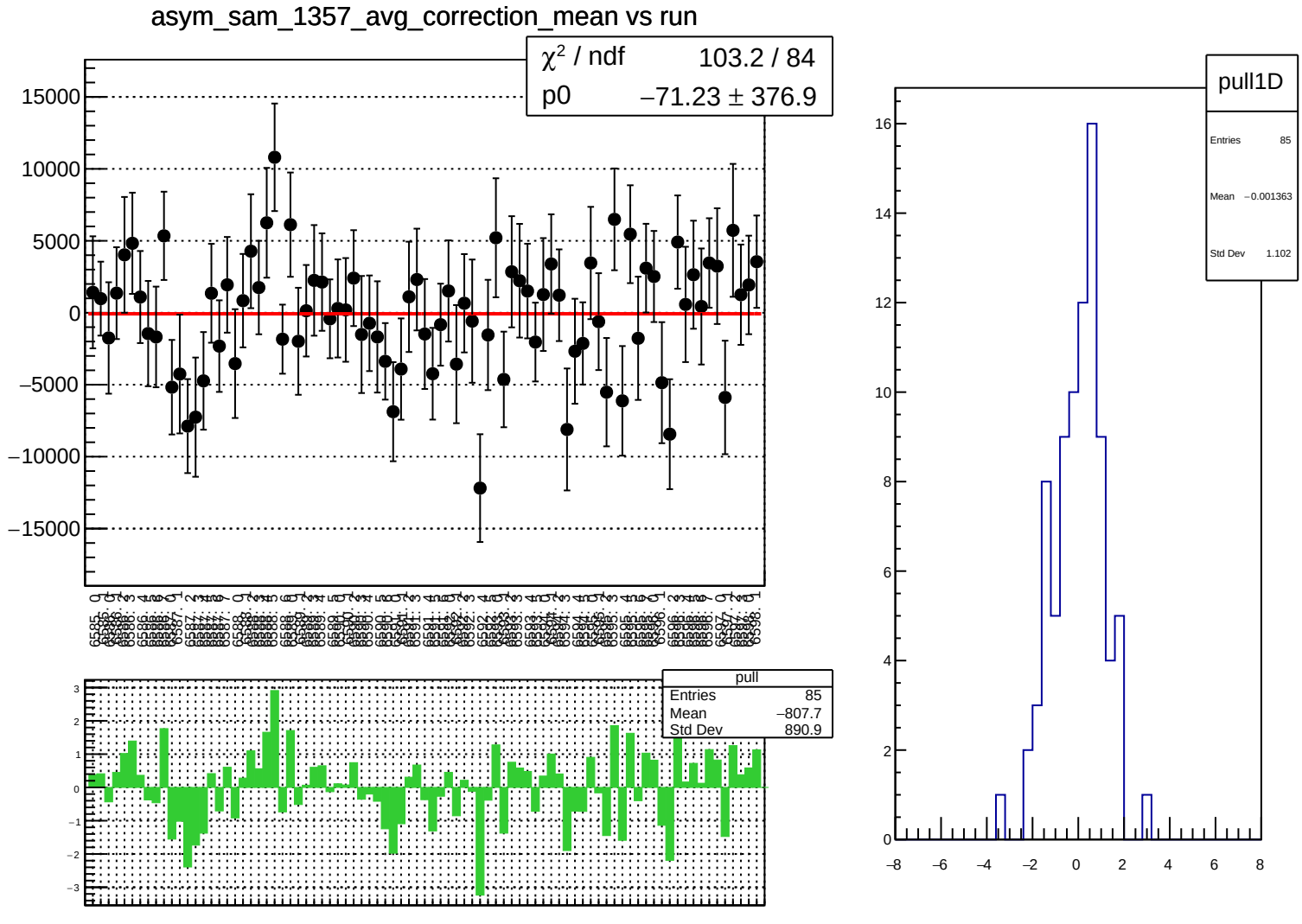
asym_sam_37_26_dd_rms vs run



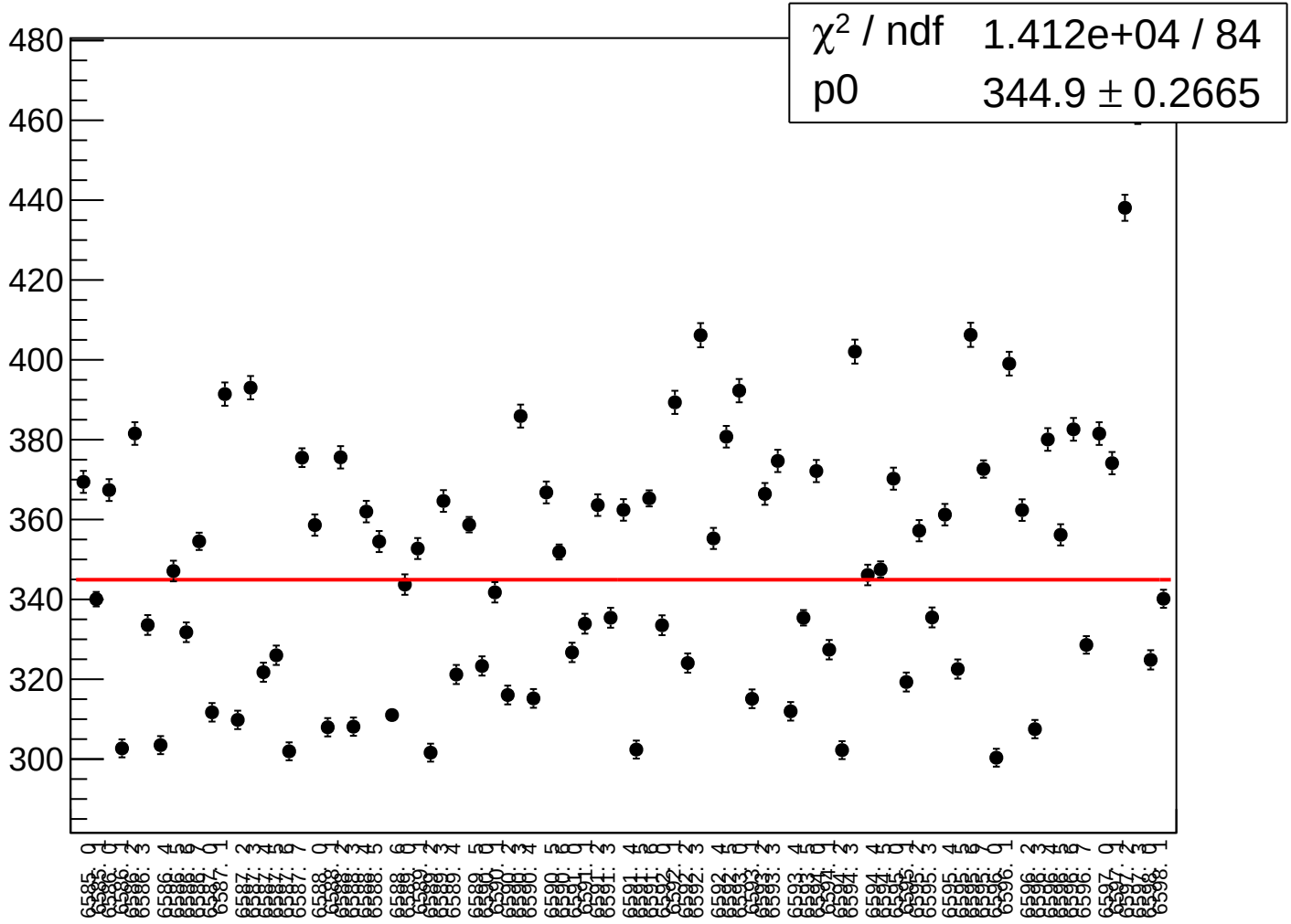

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 97.81 / 84
p0 −18.37 ± 53.73
pull
Entries 85
Mean 1.684e+04
Std Dev 1.68e+04
pull1D
Entries 85
Mean 0.0001775
Std Dev 1.073

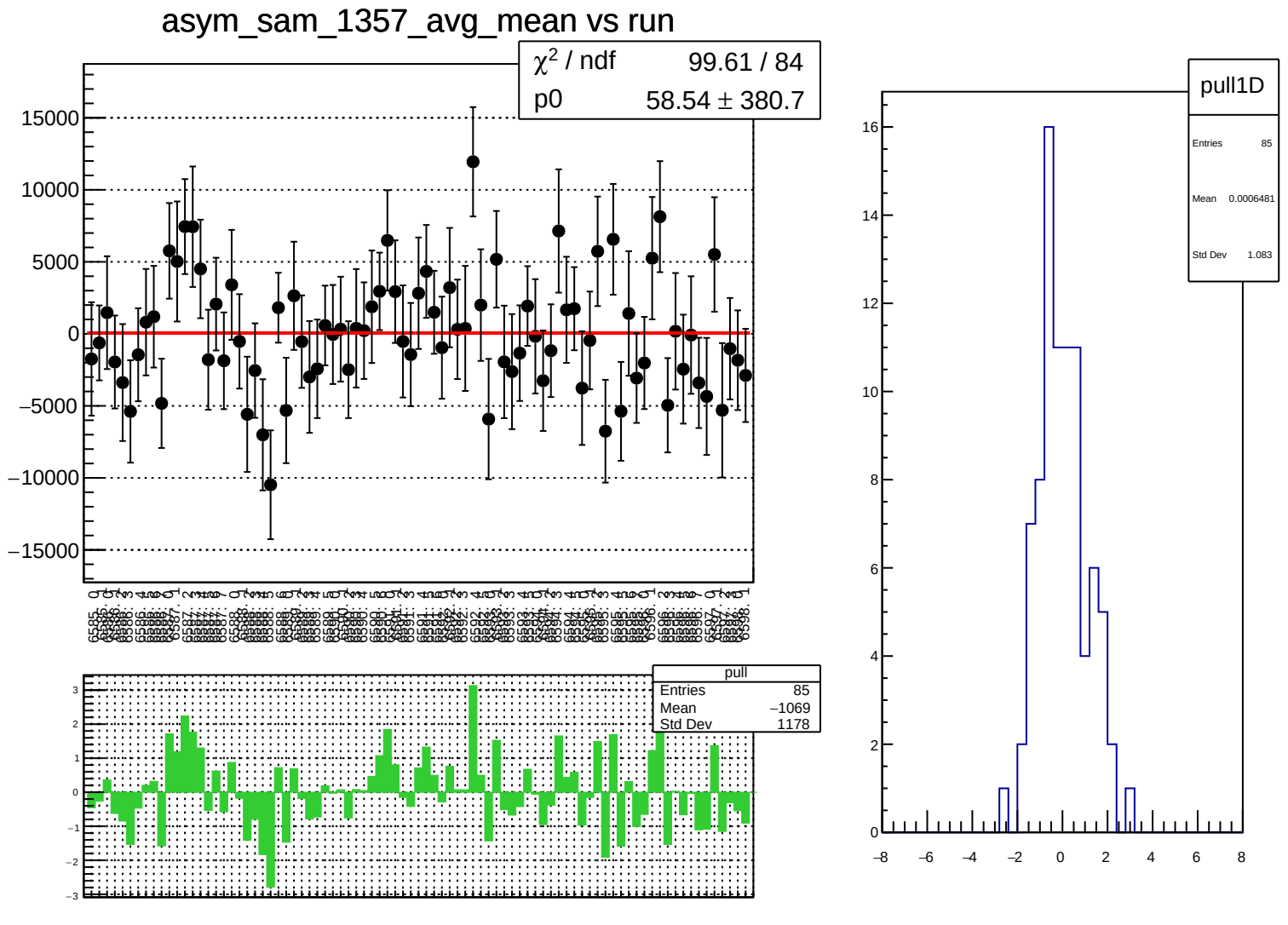
reg_asym_sam_1357_avg_rms vs run



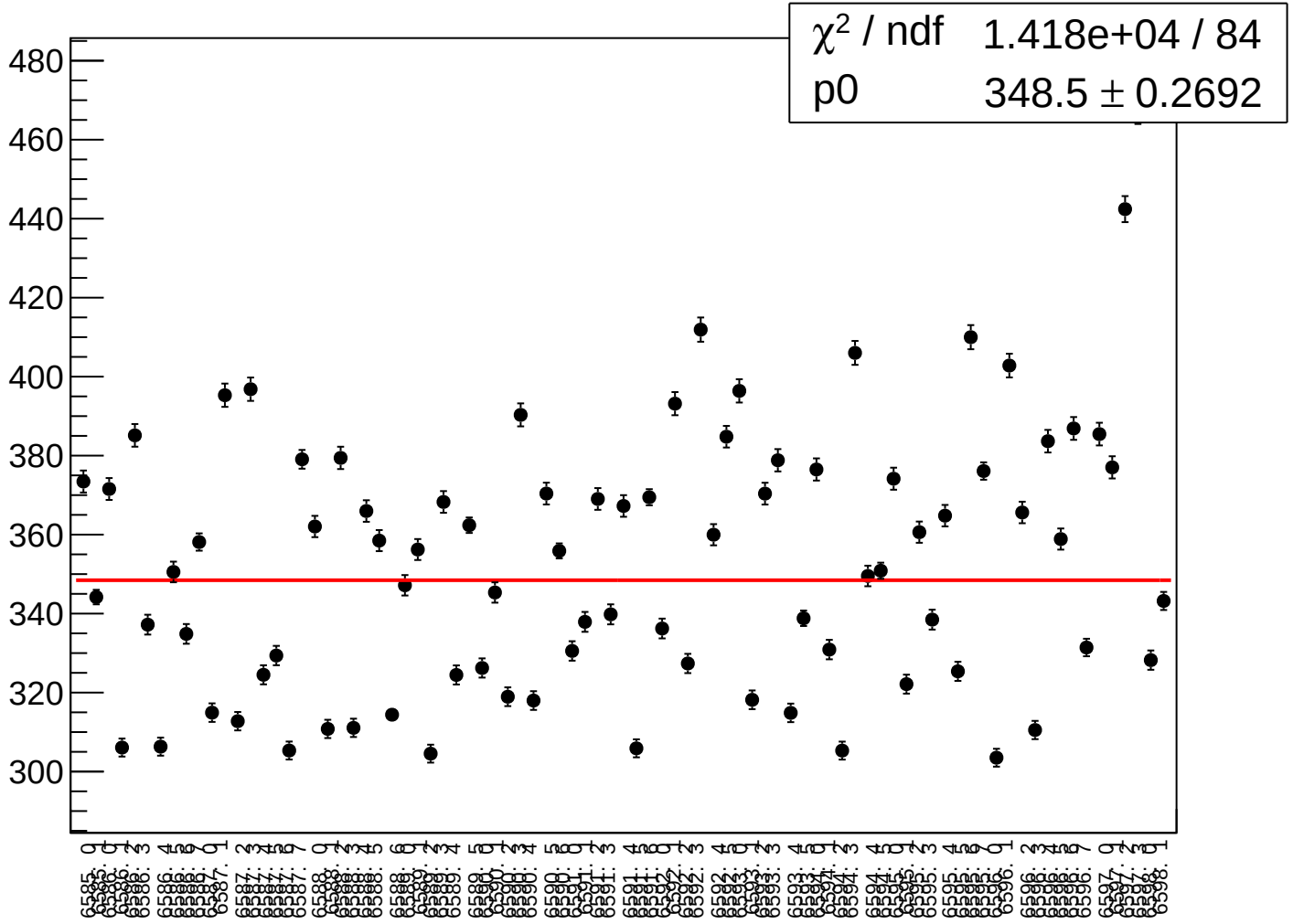

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 103.2 / 84
p0 −71.23 ± 376.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −807.7
Std Dev 890.9
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.001363
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

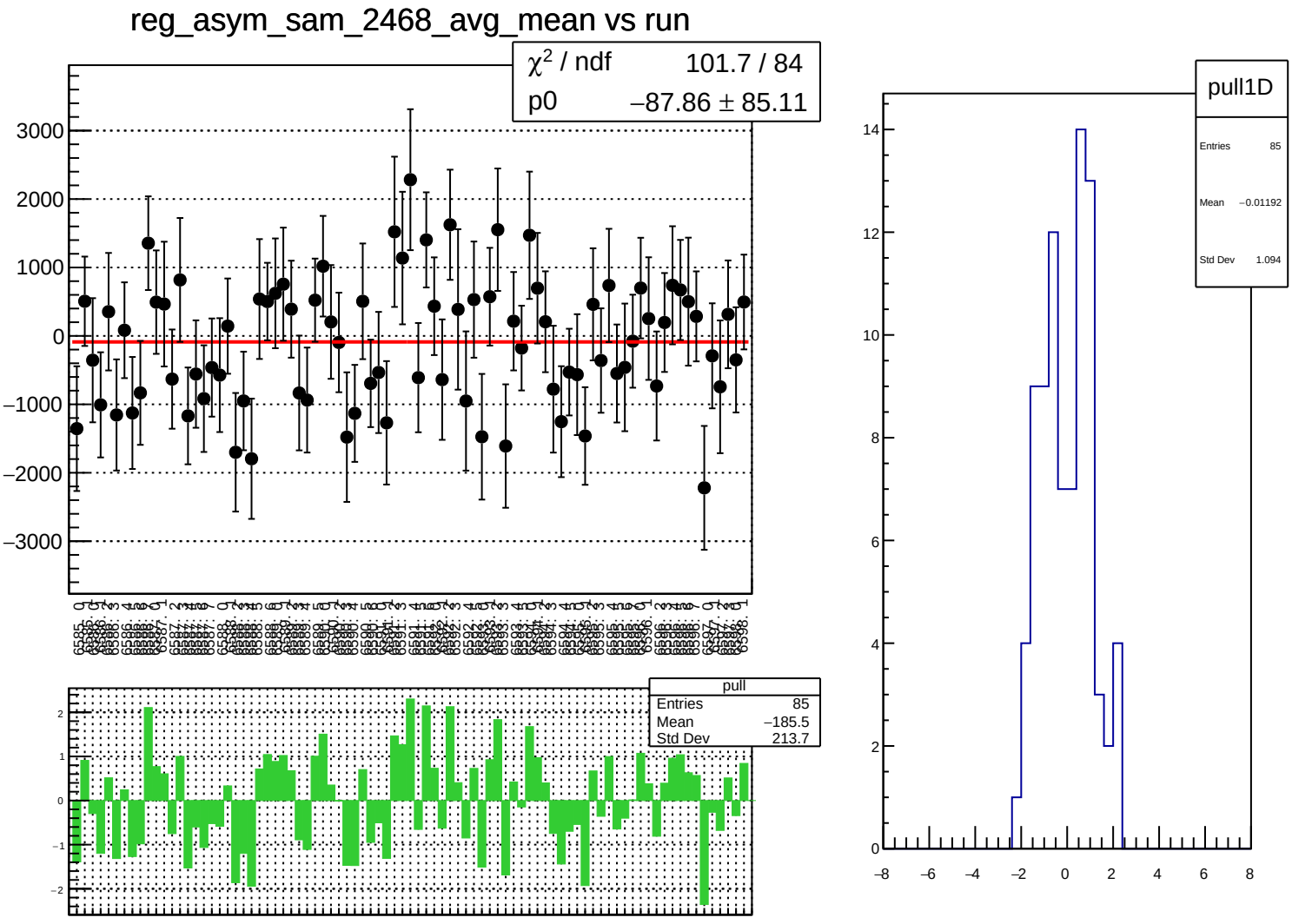
asym_sam_1357_avg_correction_rms vs run



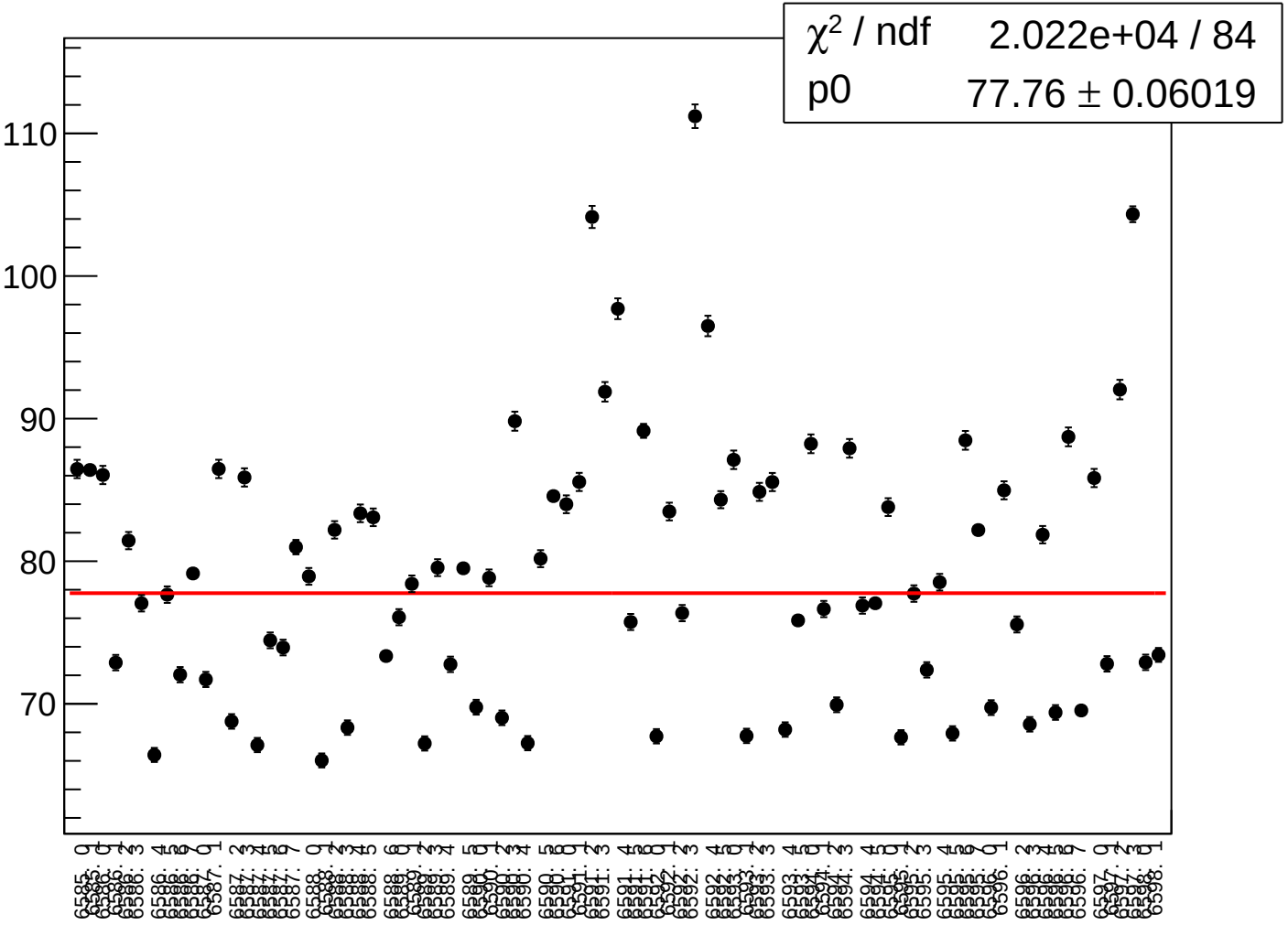

asym_sam_1357_avg_mean vs run
χ² / ndf 99.61 / 84
p0 58.54 ± 380.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −1069
Std Dev 1178
pull1D
Entries 85
Mean 0.0006481
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

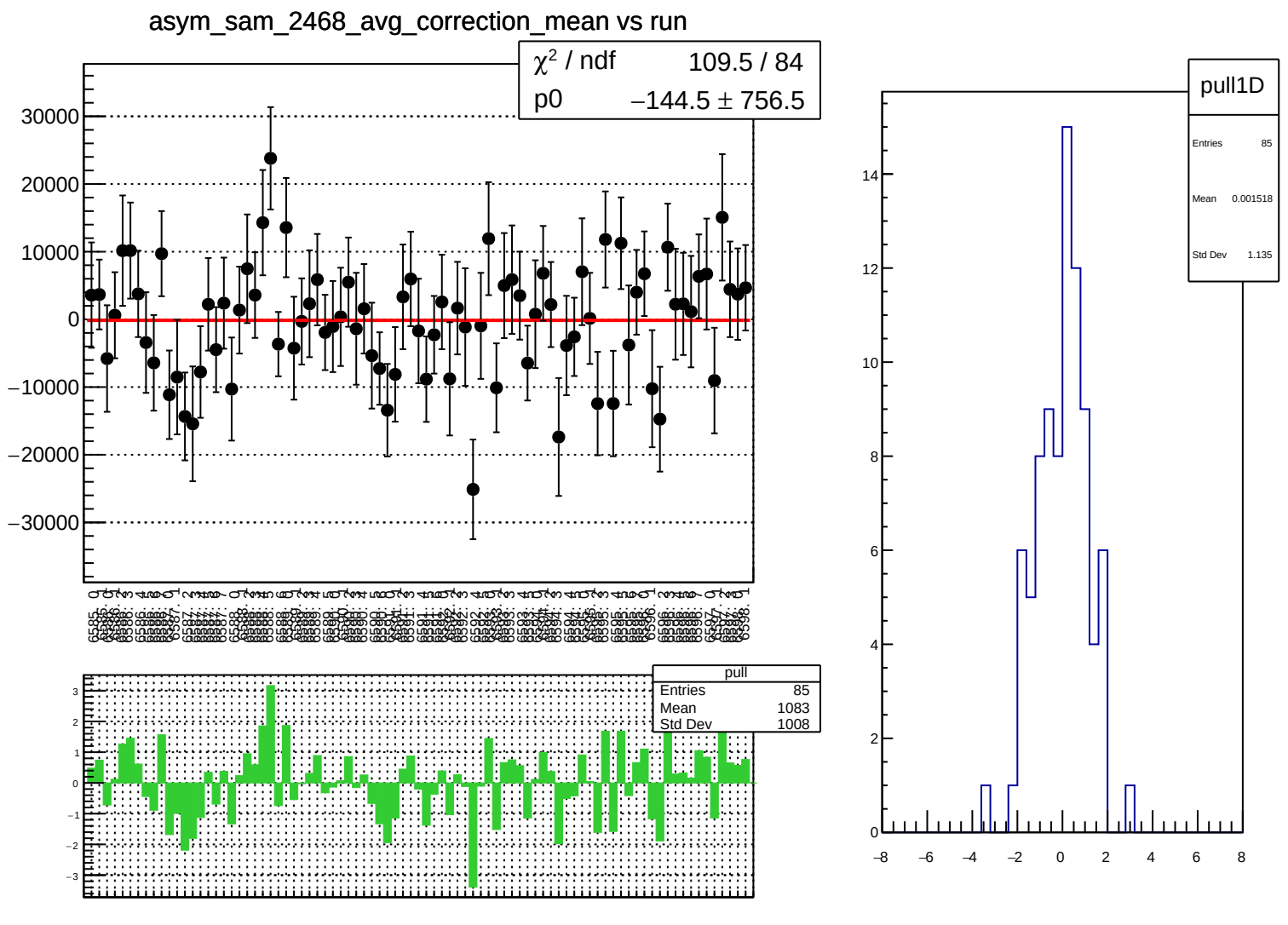
asym_sam_1357_avg_rms vs run



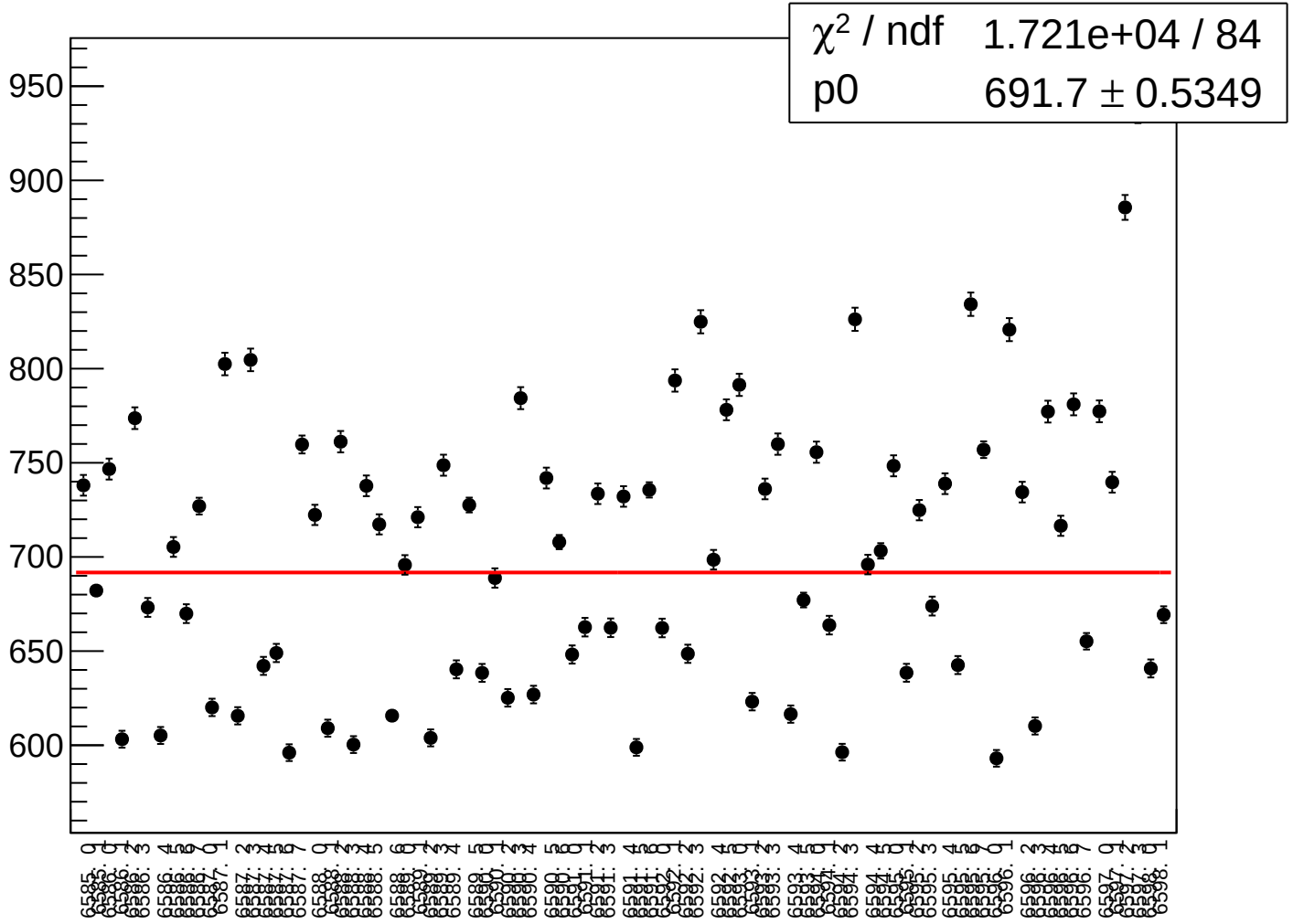

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 101.7 / 84
p0 −87.86 ± 85.11
pull
Entries 85
Mean −185.5
Std Dev 213.7
pull1D
Entries 85
Mean −0.01192
Std Dev 1.094

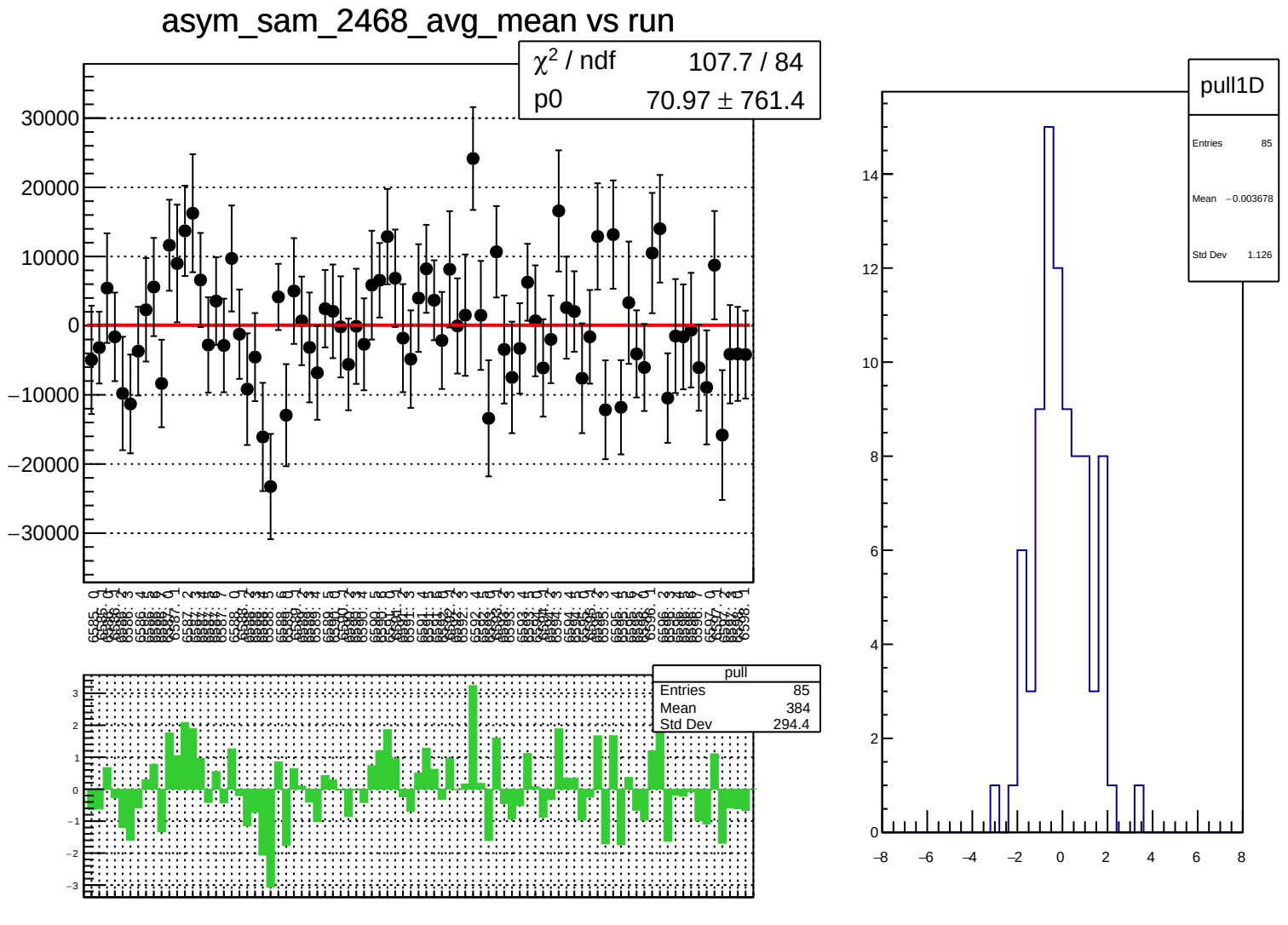
reg_asym_sam_2468_avg_rms vs run



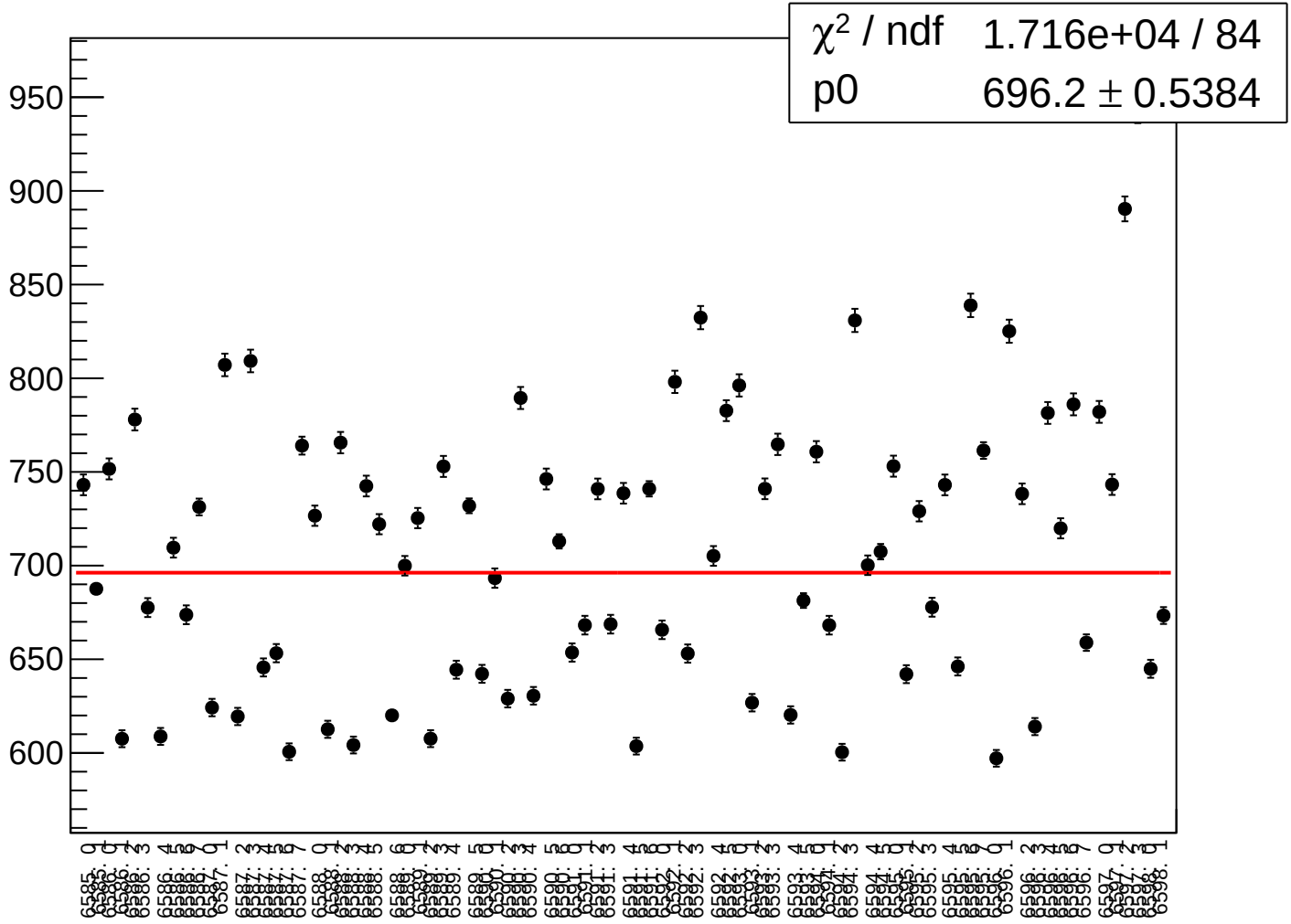

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 109.5 / 84
p0 −144.5 ± 756.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1083
Std Dev 1008
pull1D
Entries 85
Mean 0.001518
Std Dev 1.135

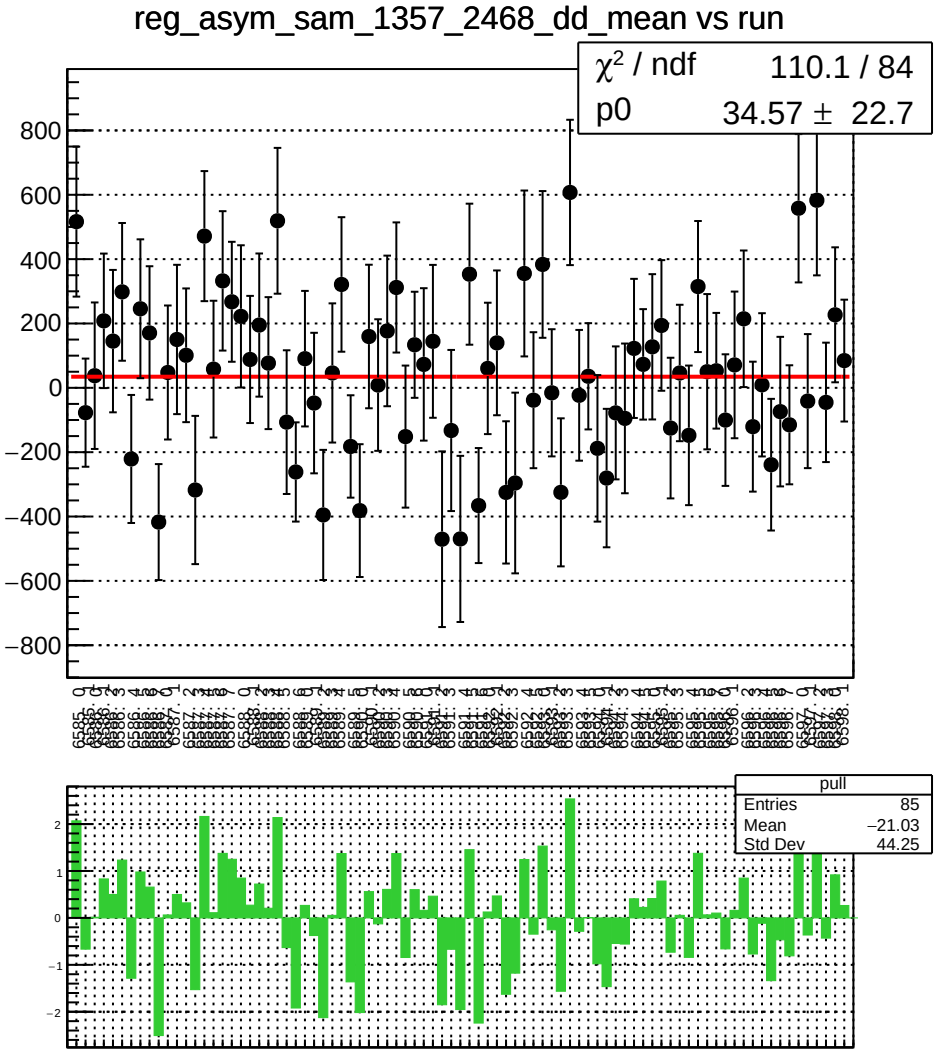
asym_sam_2468_avg_correction_rms vs run

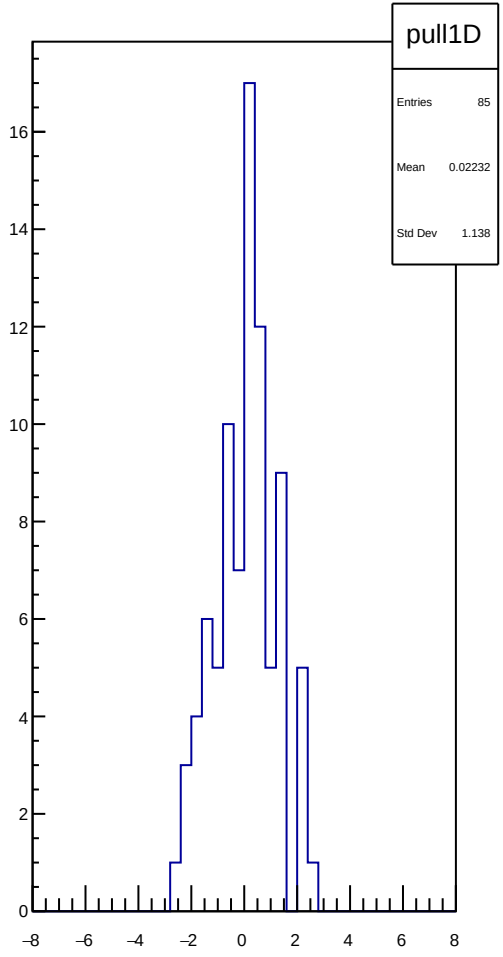



asym_sam_2468_avg_mean vs run
χ² / ndf 107.7 / 84
p0 70.97 ± 761.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 384
Std Dev 294.4
pull1D
Entries 85
Mean −0.003678
Std Dev 1.126

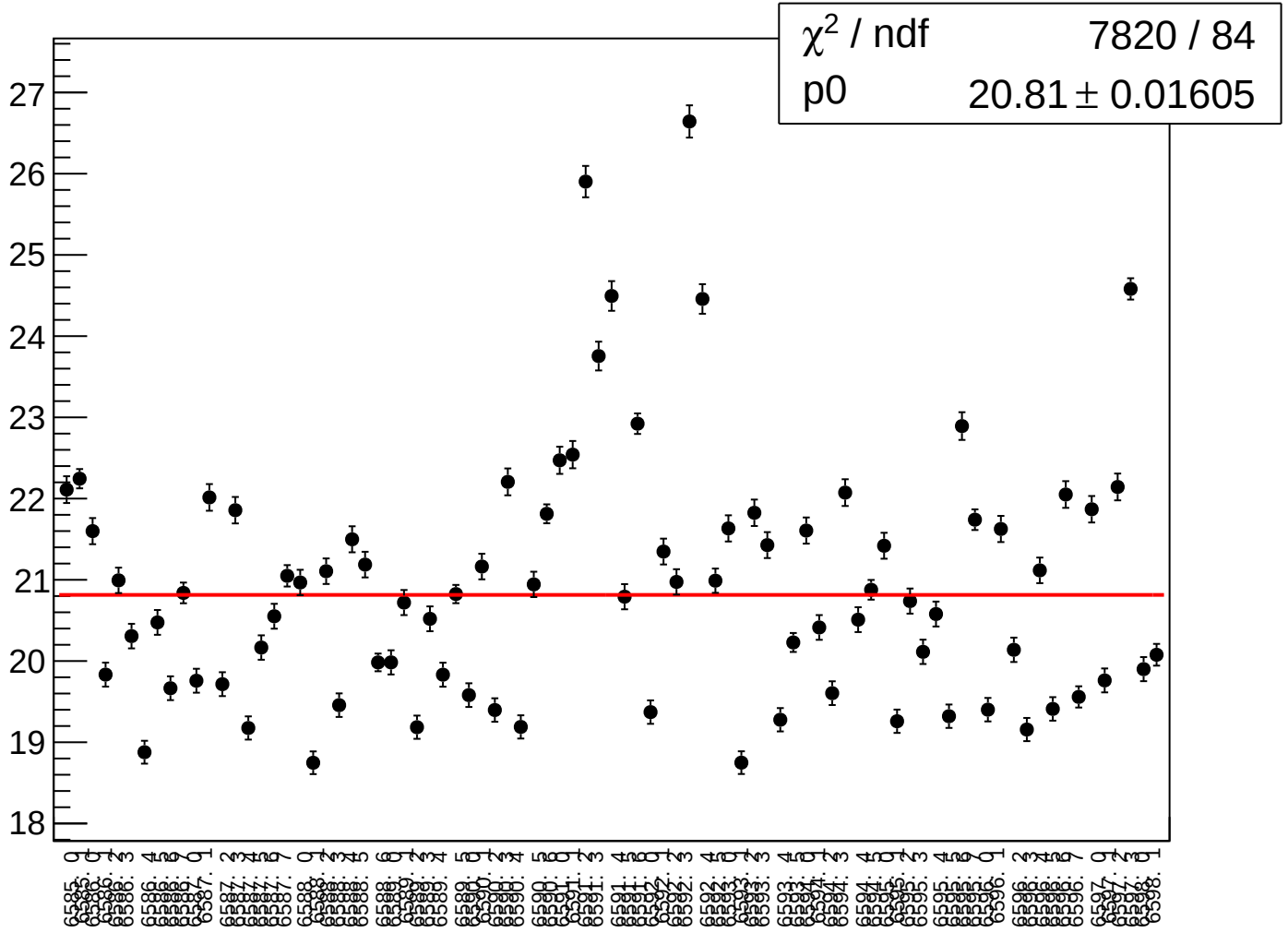
asym_sam_2468_avg_rms vs run

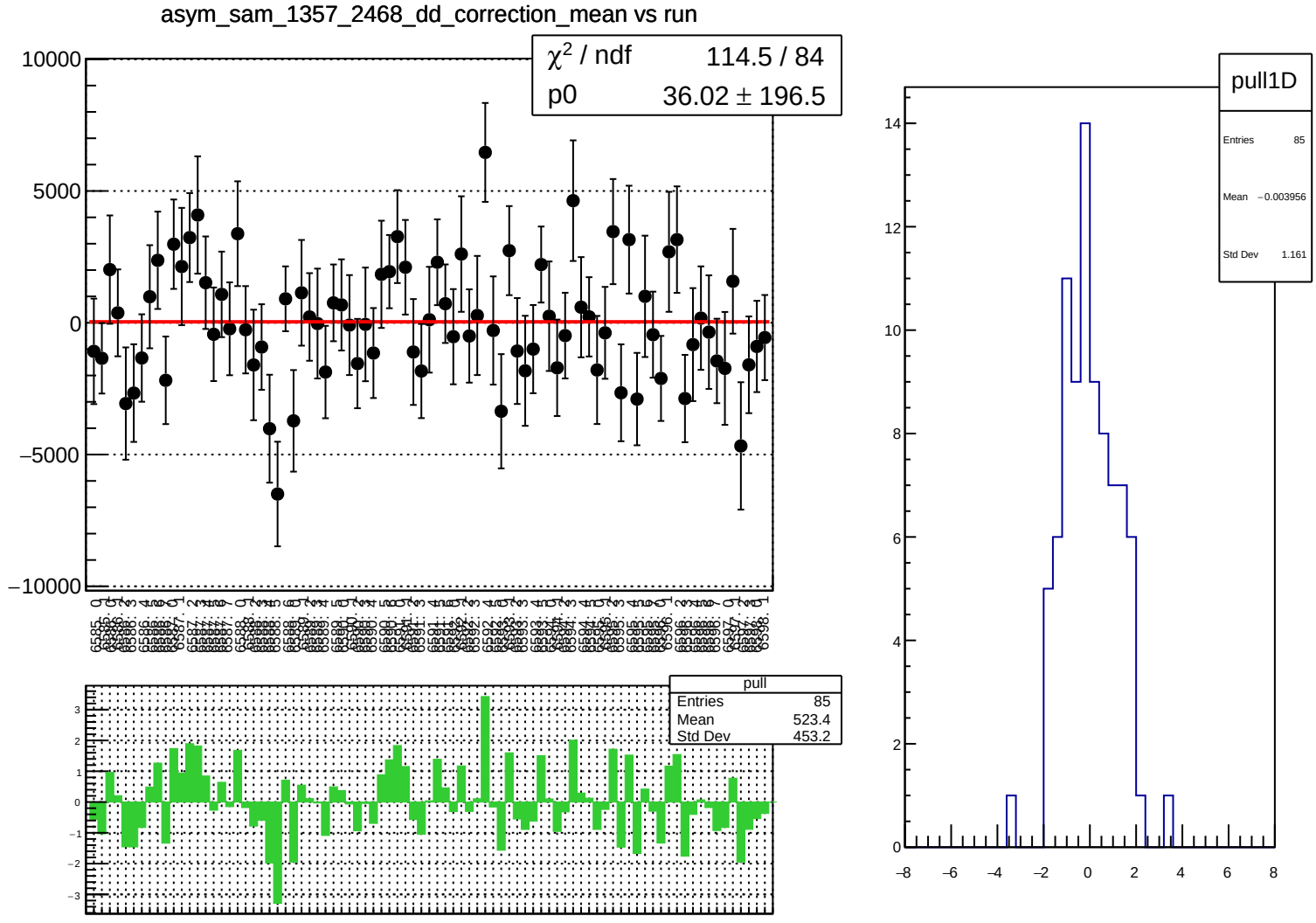



reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 110.1 / 84
p0 34.57 ± 22.7
pull
Entries 85
Mean −21.03
Std Dev 44.25

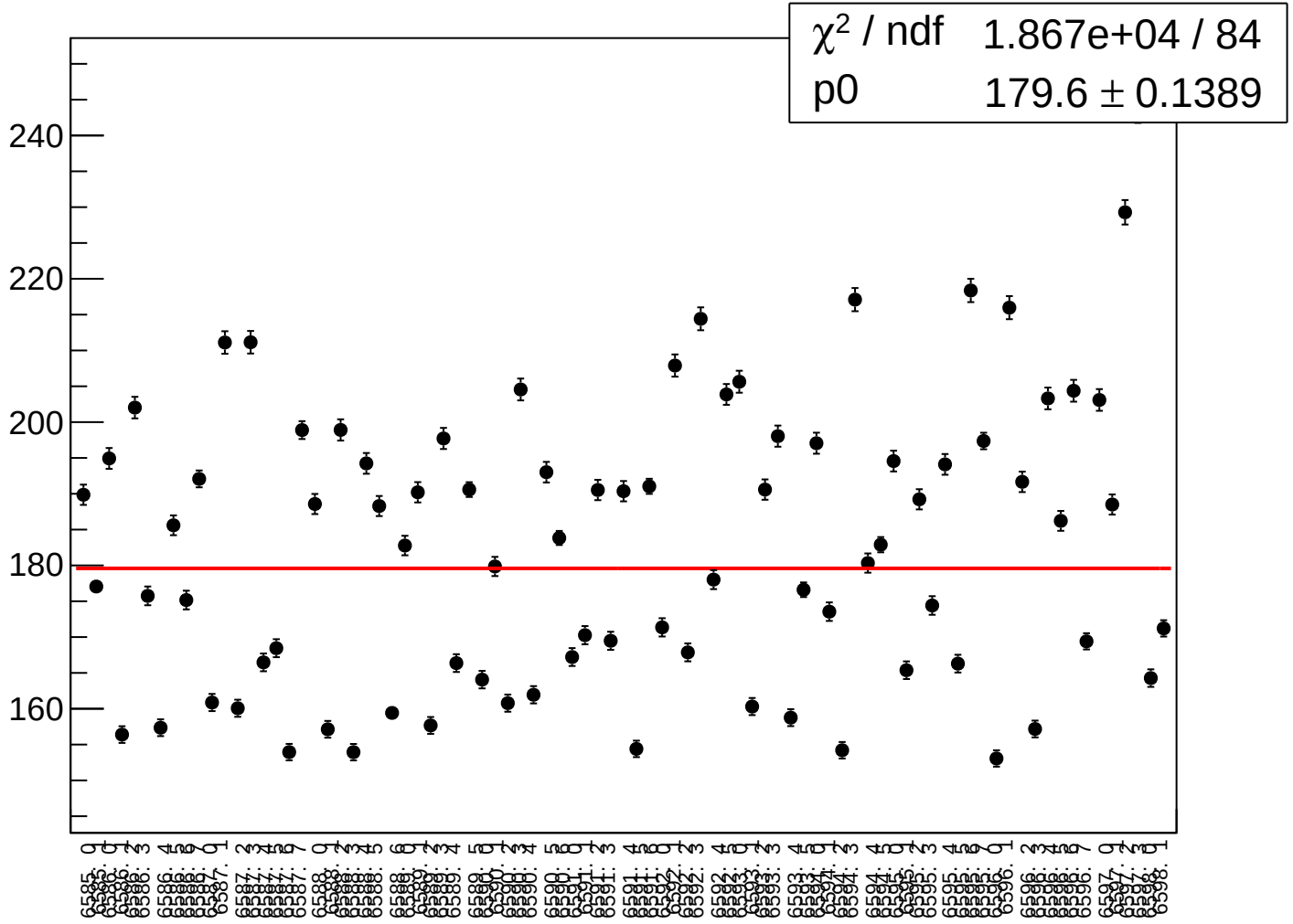

pull1D
Entries 85
Mean 0.02232
Std Dev 1.138

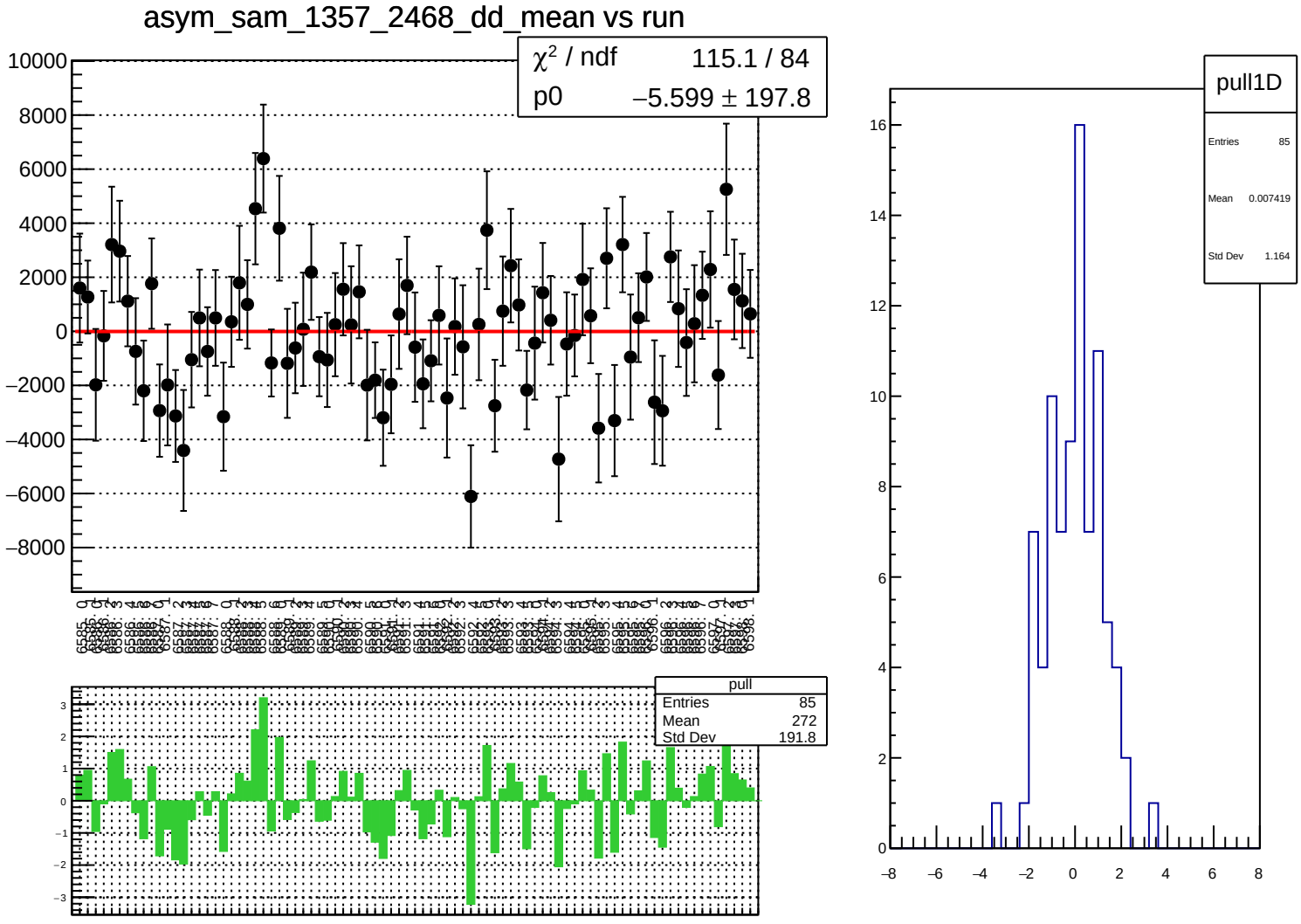
reg_asym_sam_1357_2468_dd_rms vs run



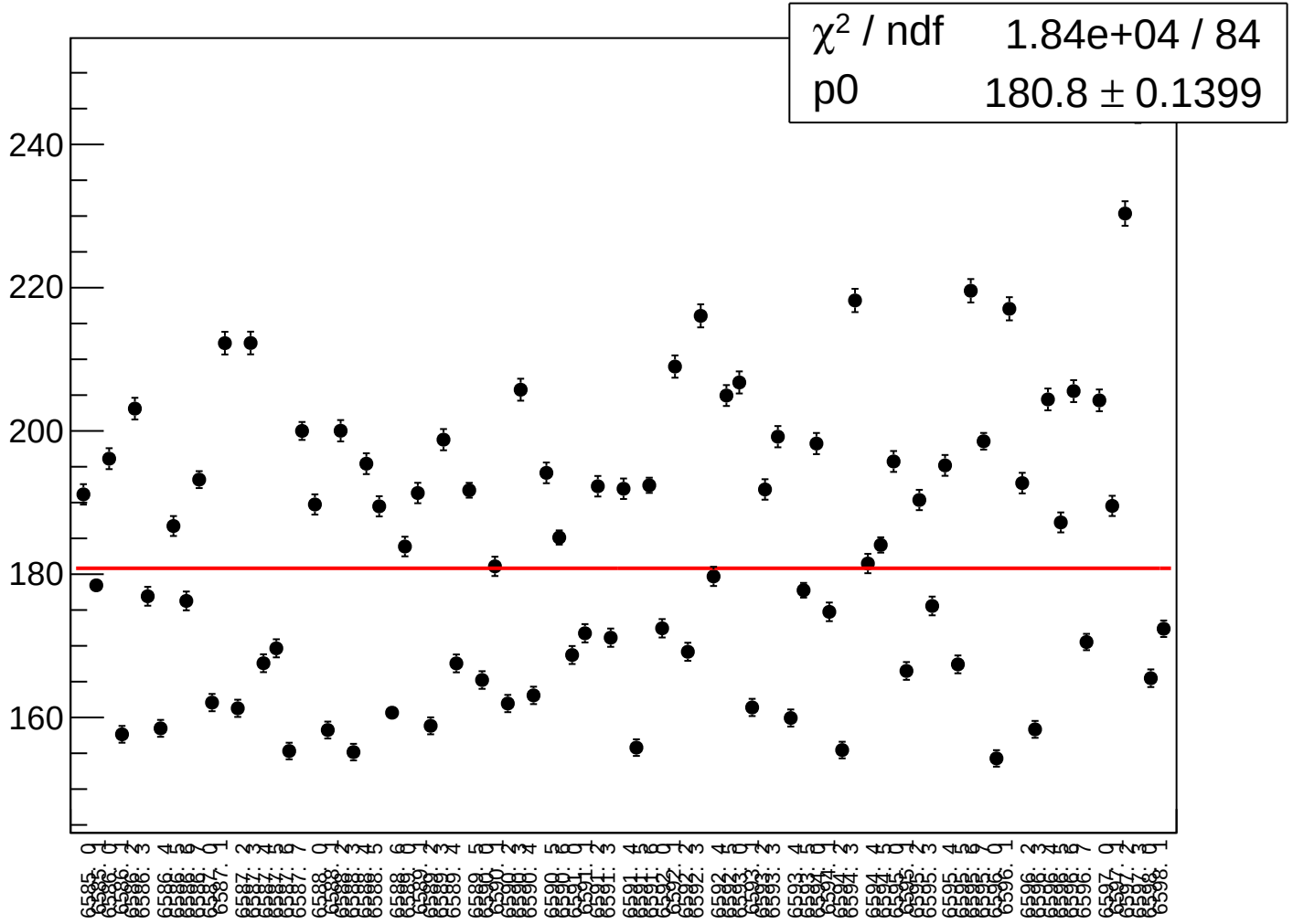

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 114.5 / 84
p0 36.02 ± 196.5
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 523.4
Std Dev 453.2
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.003956
Std Dev 1.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

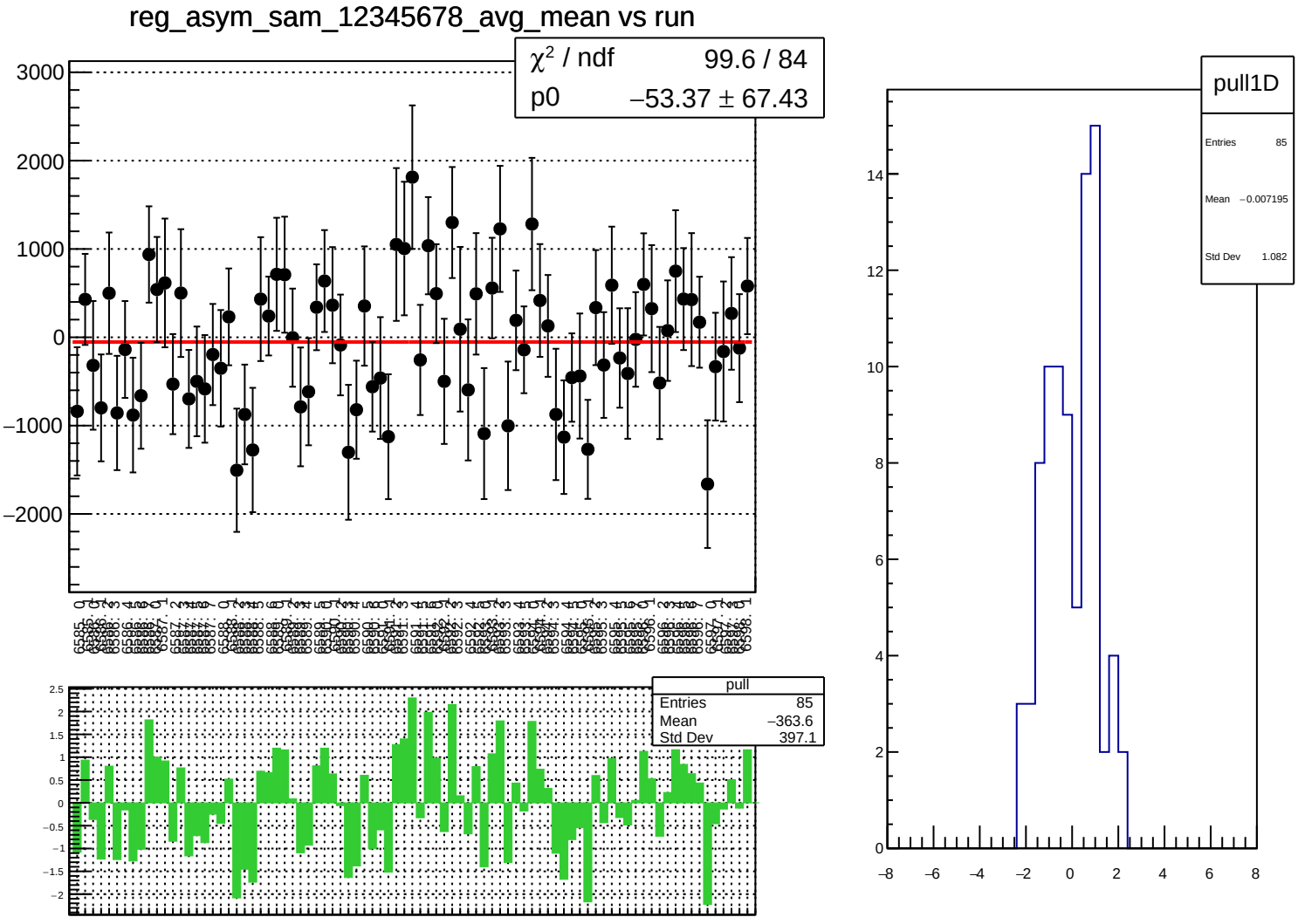
asym_sam_1357_2468_dd_correction_rms vs run



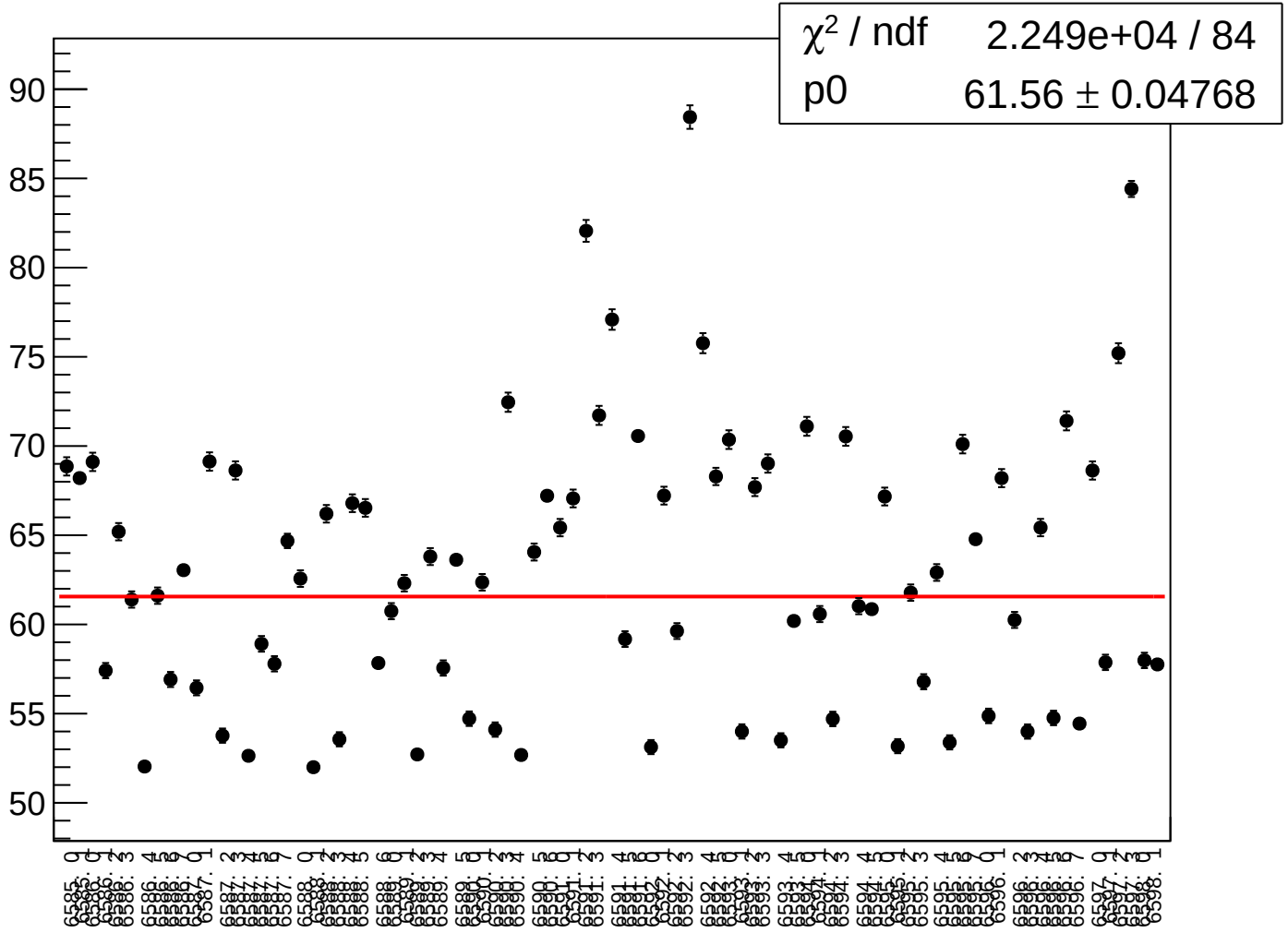

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 115.1 / 84
p0 −5.599 ± 197.8
pull
Entries 85
Mean 272
Std Dev 191.8
pull1D
Entries 85
Mean 0.007419
Std Dev 1.164

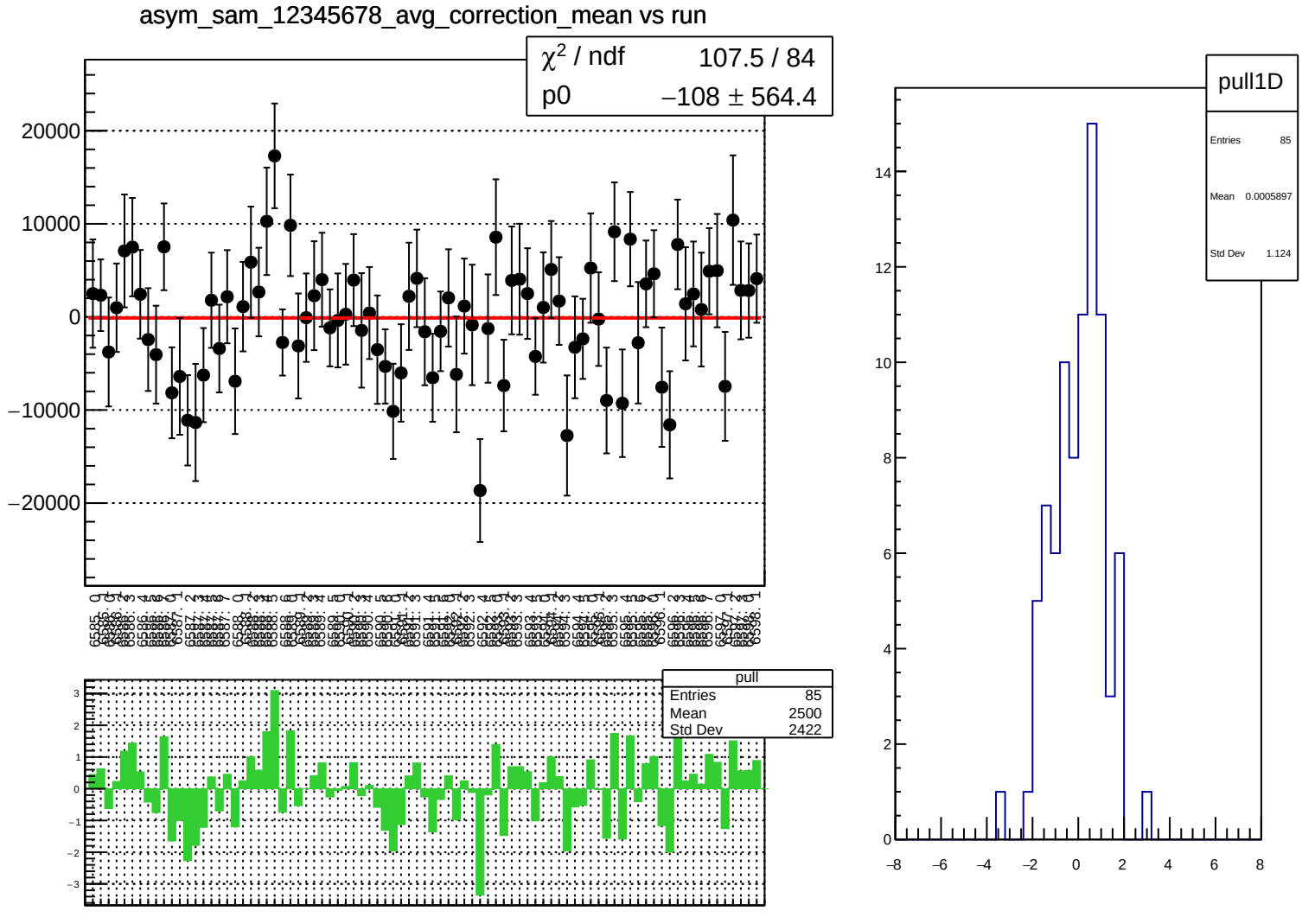
asym_sam_1357_2468_dd_rms vs run



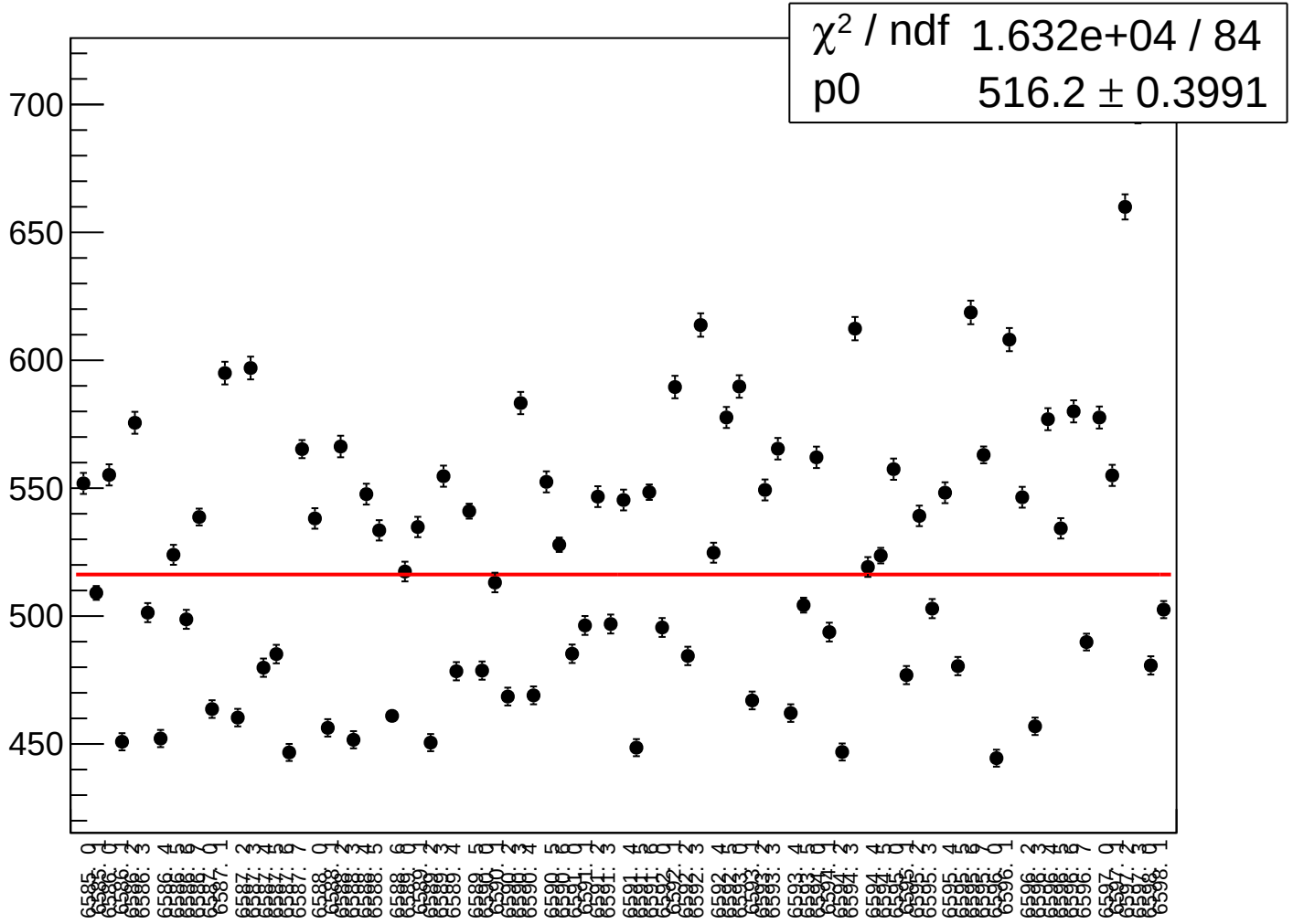

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 99.6 / 84
p0 −53.37 ± 67.43
pull
Entries 85
Mean −363.6
Std Dev 397.1
pull1D
Entries 85
Mean −0.007195
Std Dev 1.082

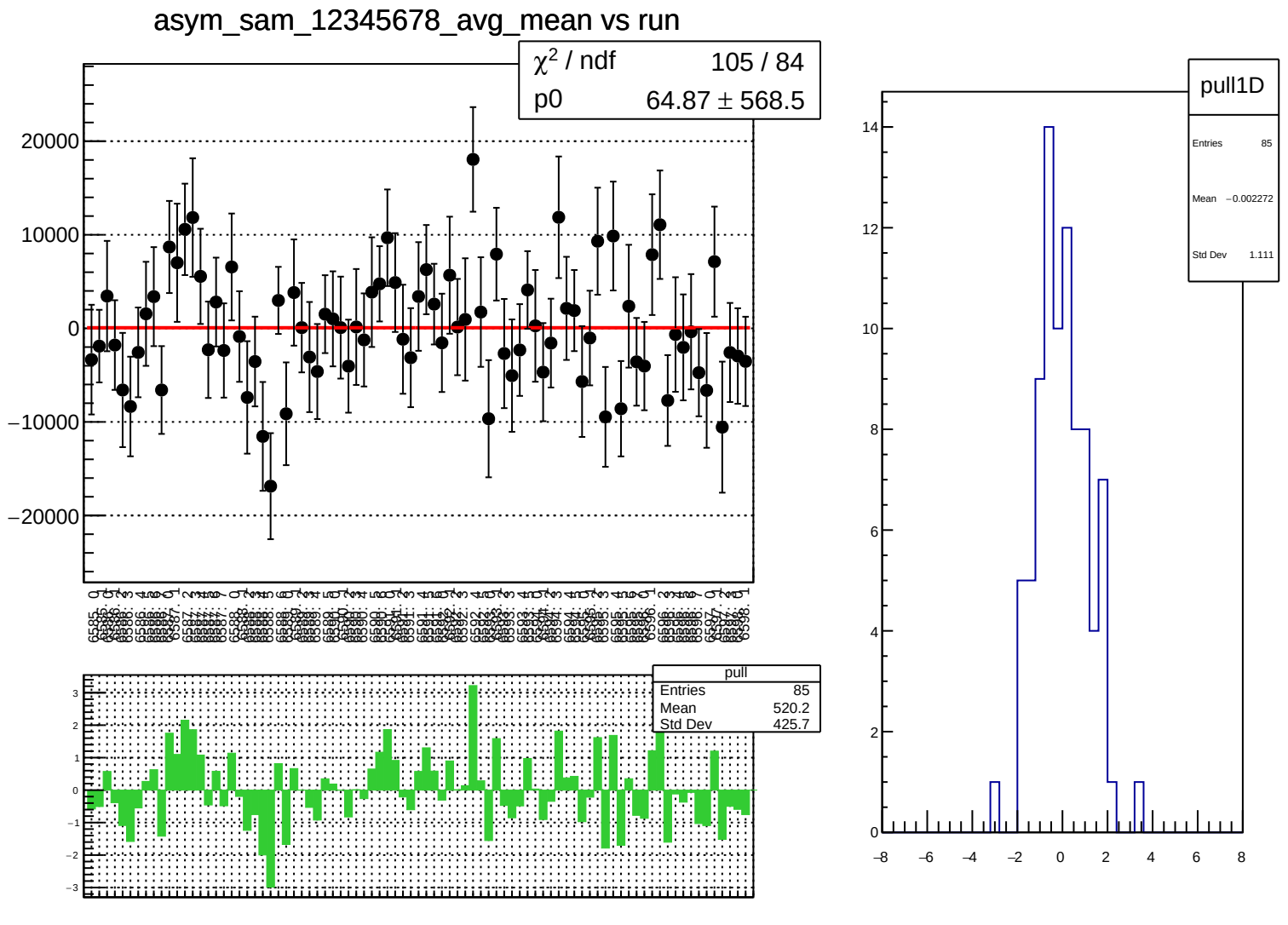
reg_asym_sam_12345678_avg_rms vs run



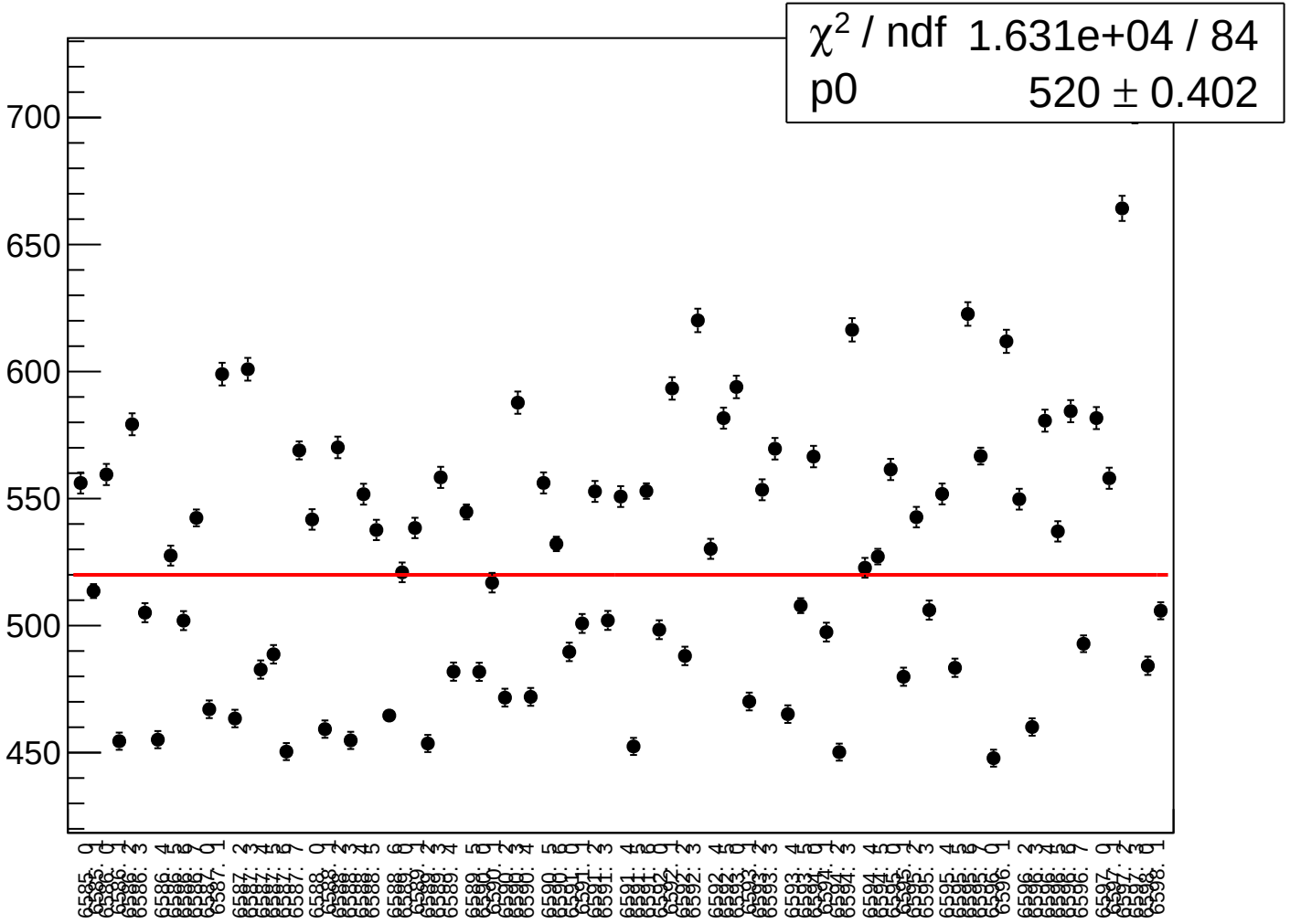

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 107.5 / 84
p0 −108 ± 564.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 2500
Std Dev 2422
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.0005897
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

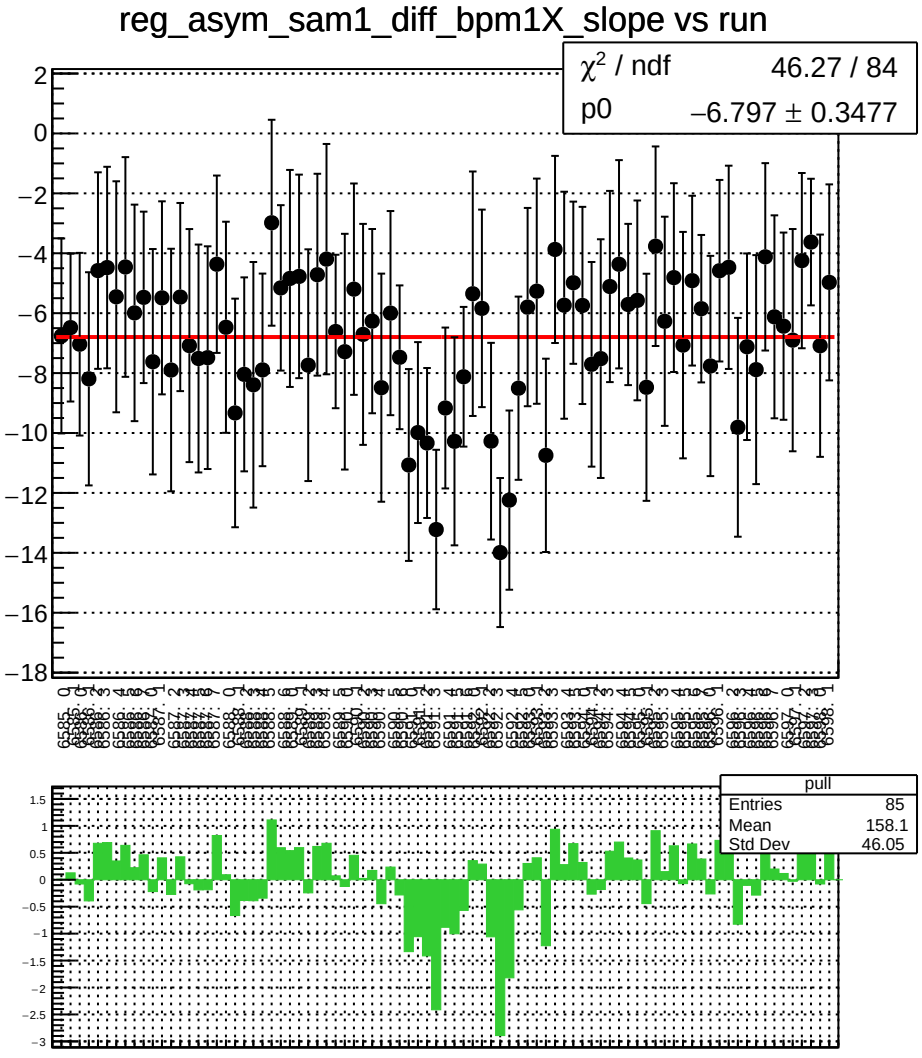
asym_sam_12345678_avg_correction_rms vs run

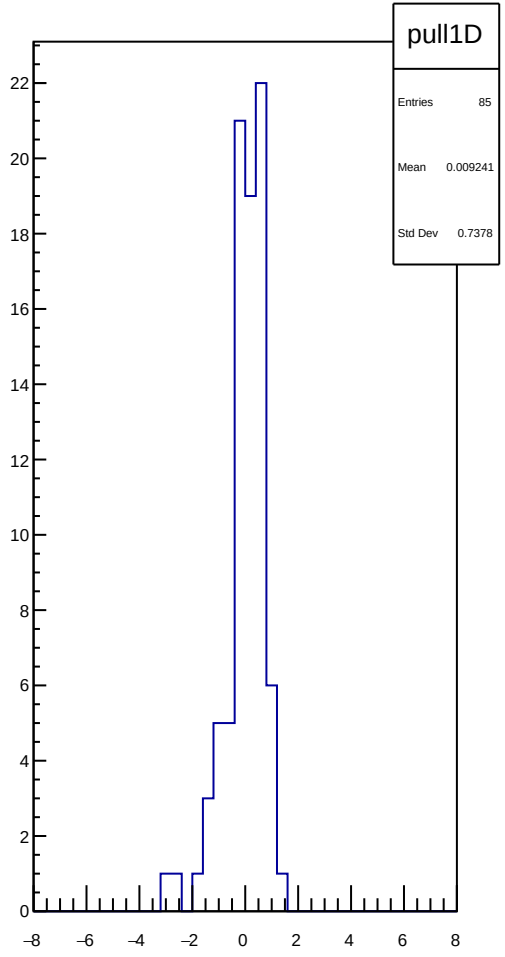


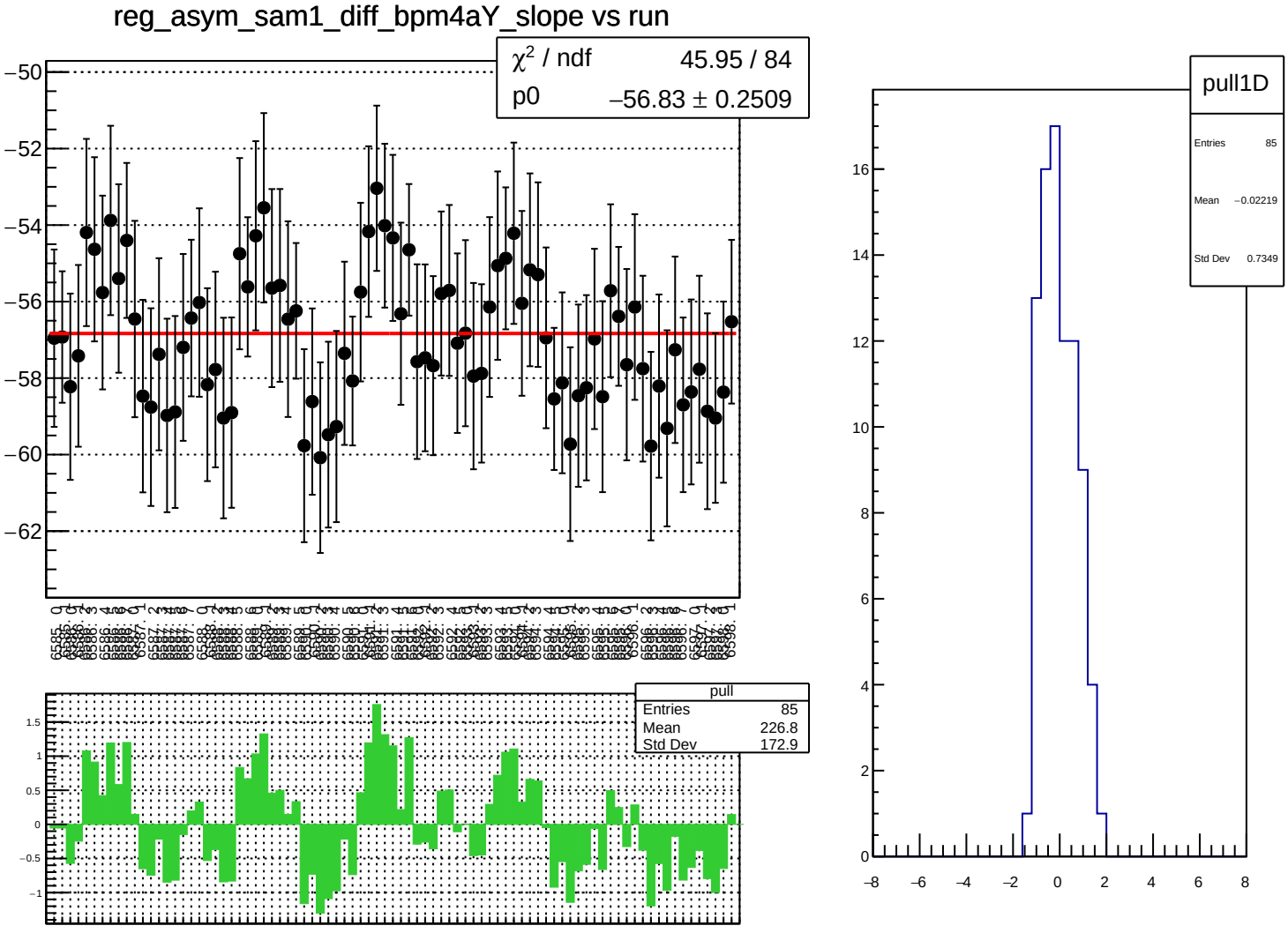

asym_sam_12345678_avg_mean vs run
χ² / ndf 105 / 84
p0 64.87 ± 568.5
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 520.2
Std Dev 425.7
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.002272
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

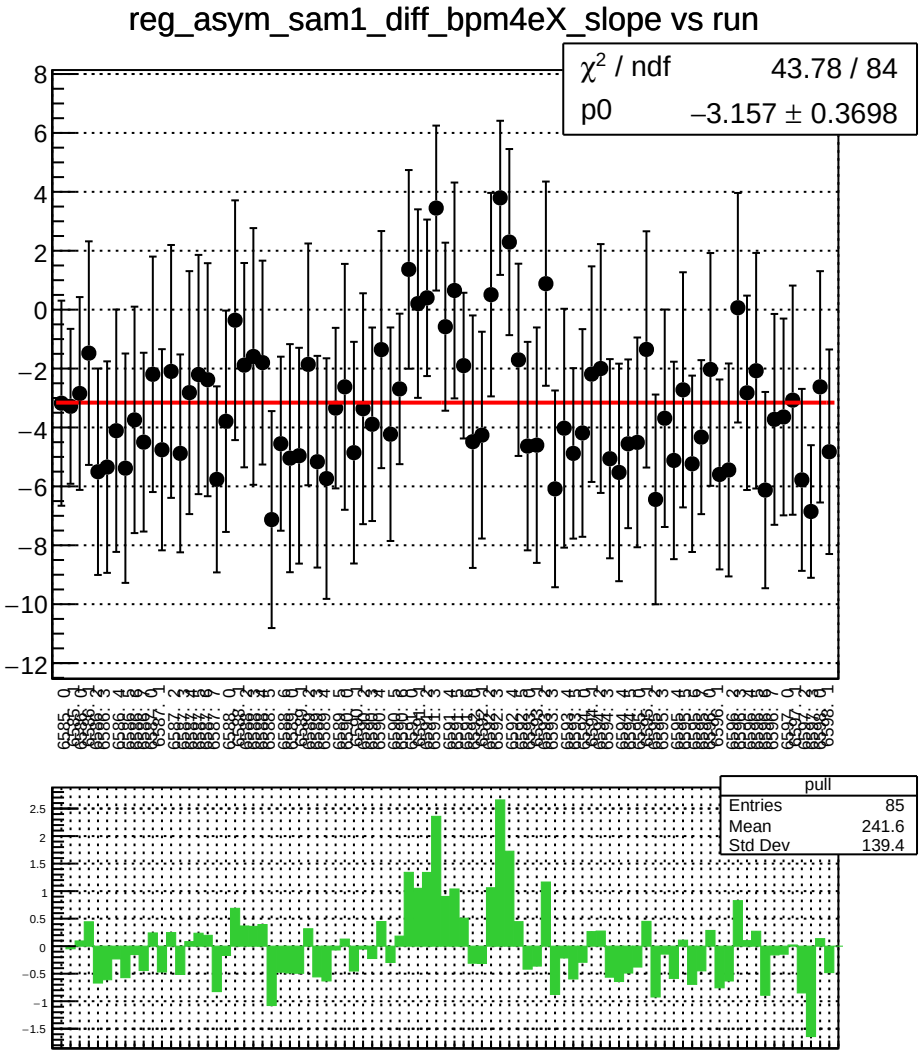
asym_sam_12345678_avg_rms vs run

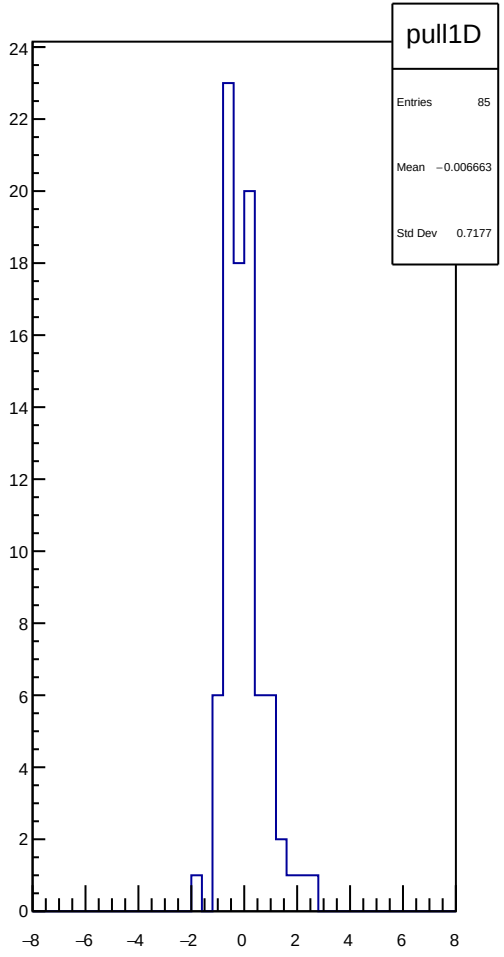


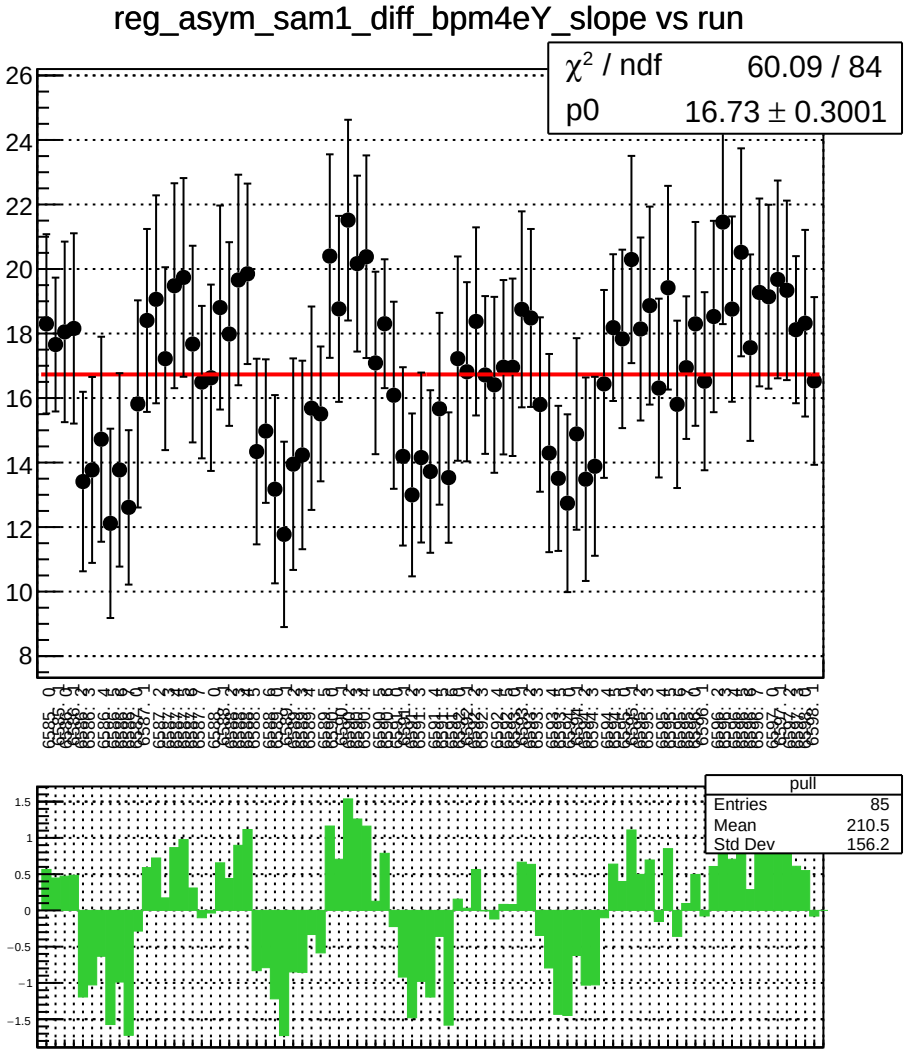

reg_asym_sam1_diff_bpm1X_slope vs run
χ^2 / ndf 46.27 / 84
p0 −6.797 ± 0.3477
pull
Entries 85
Mean 158.1
Std Dev 46.05

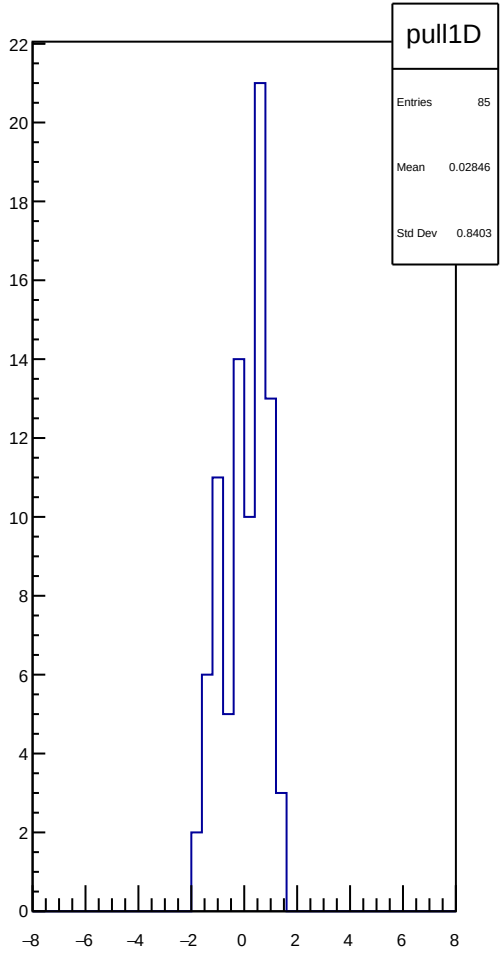

pull1D
Entries 85
Mean 0.009241
Std Dev 0.7378

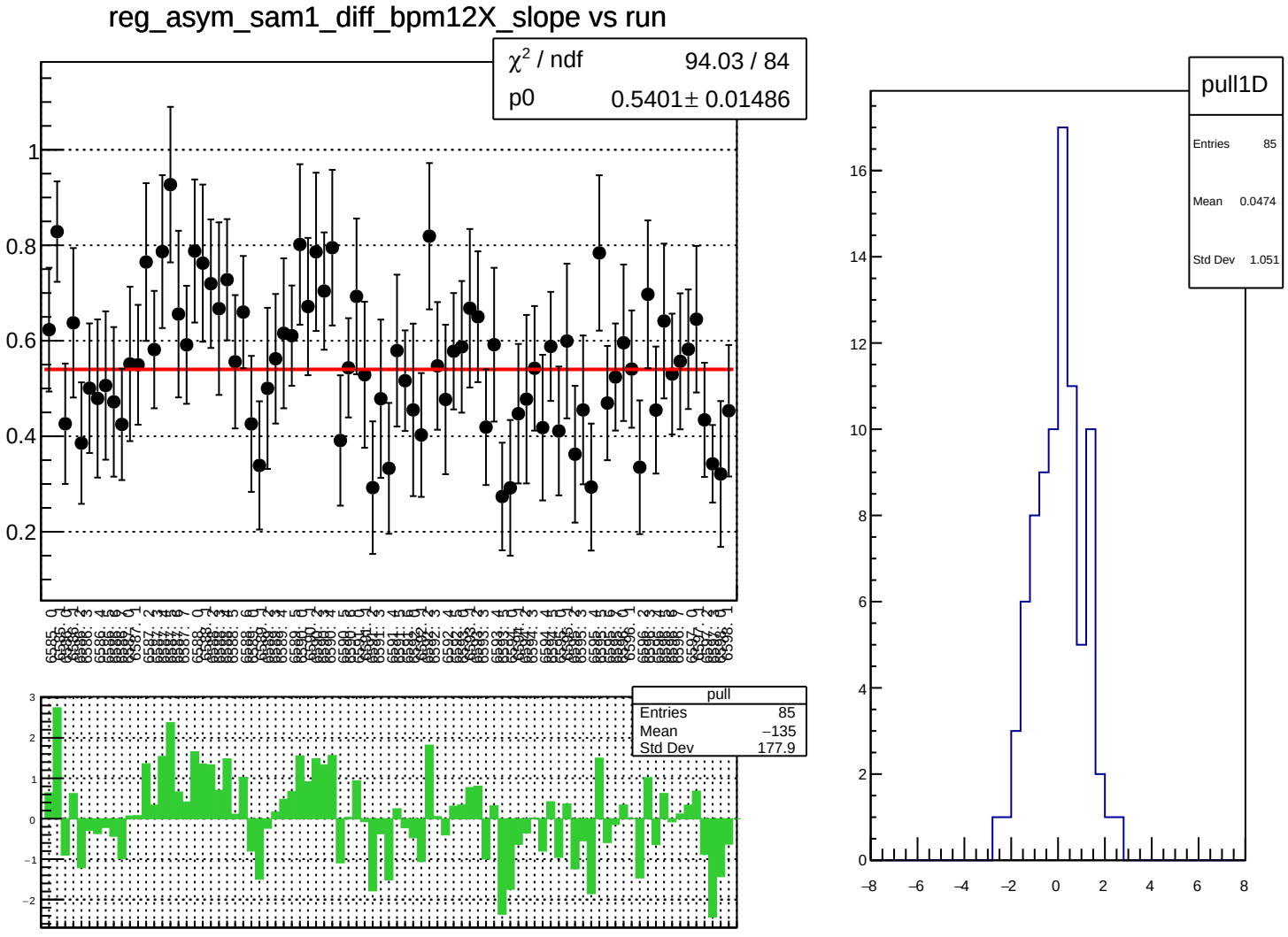

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 45.95 / 84
p0 −56.83 ± 0.2509
pull
Entries 85
Mean 226.8
Std Dev 172.9
pull1D
Entries 85
Mean −0.02219
Std Dev 0.7349

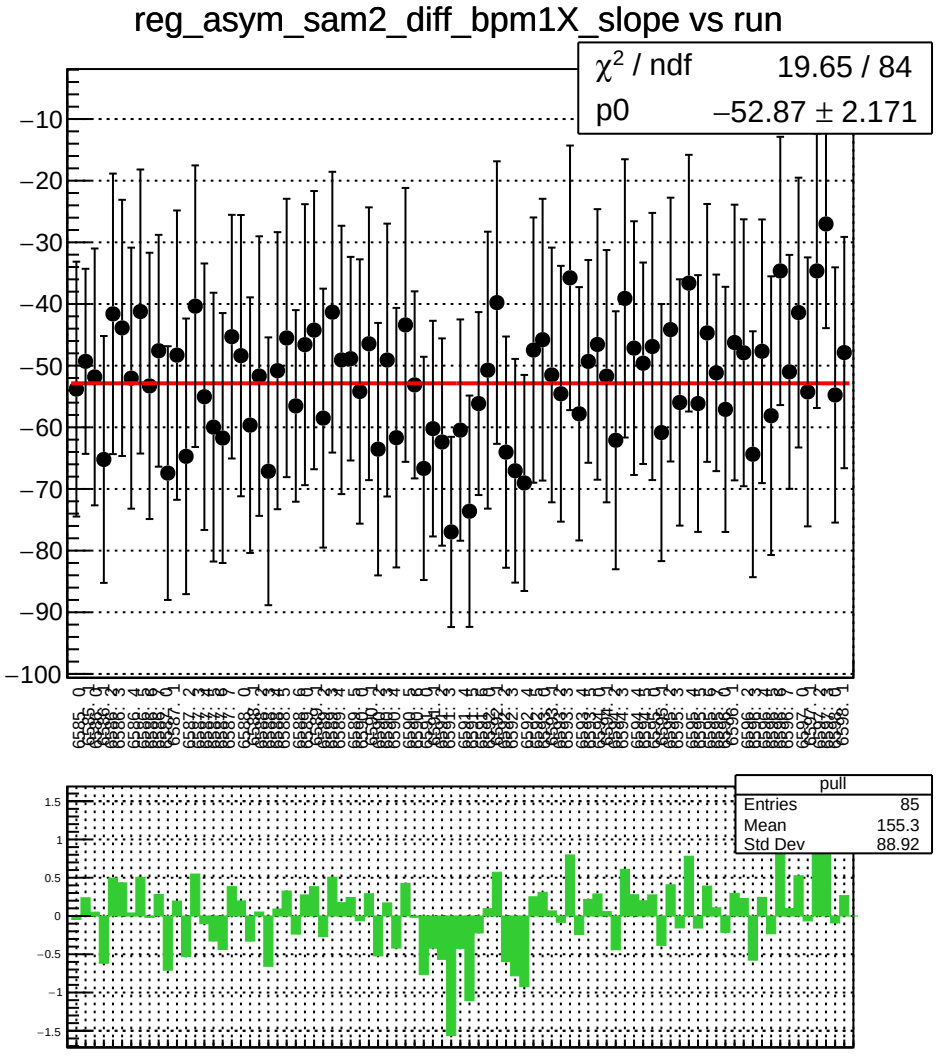

reg_asym_sam1_diff_bpm4eX_slope vs run
χ^2 / ndf 43.78 / 84
p0 −3.157 ± 0.3698
pull
Entries 85
Mean 241.6
Std Dev 139.4

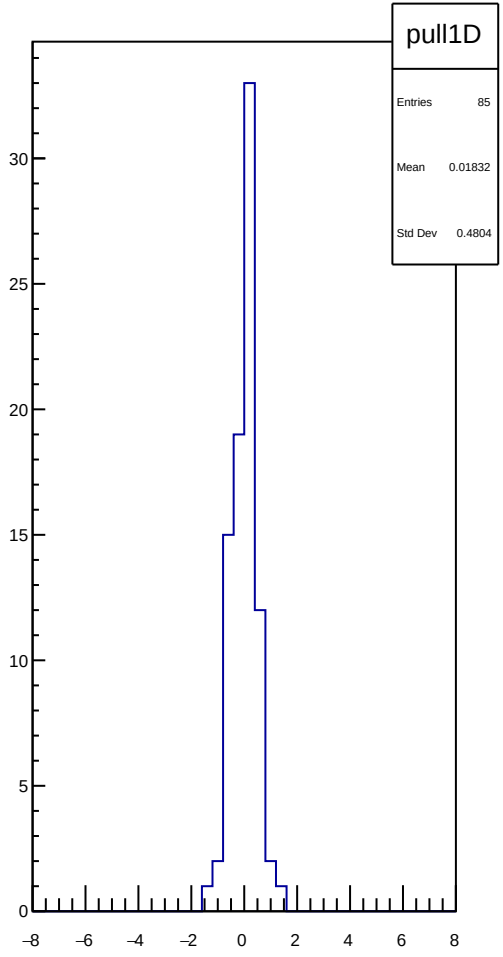

pull1D
Entries 85
Mean −0.006663
Std Dev 0.7177

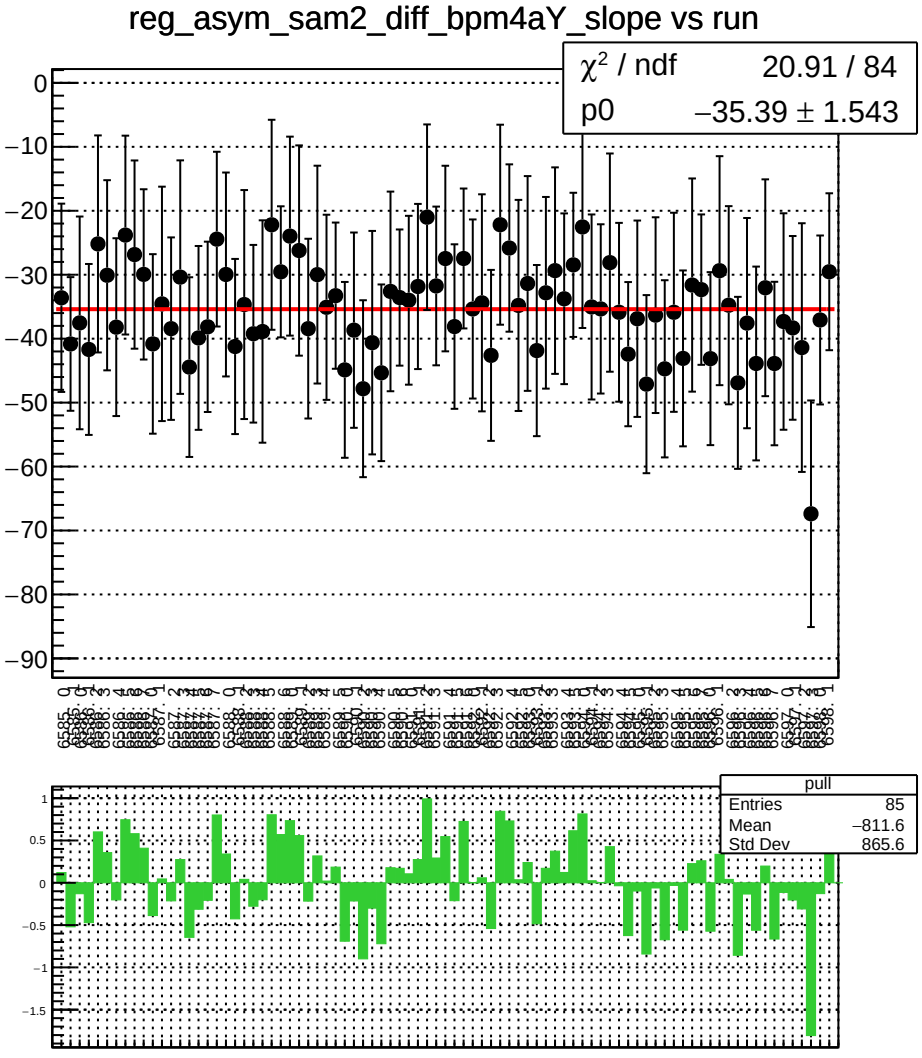

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 60.09 / 84
p0 16.73 ± 0.3001
pull
Entries 85
Mean 210.5
Std Dev 156.2

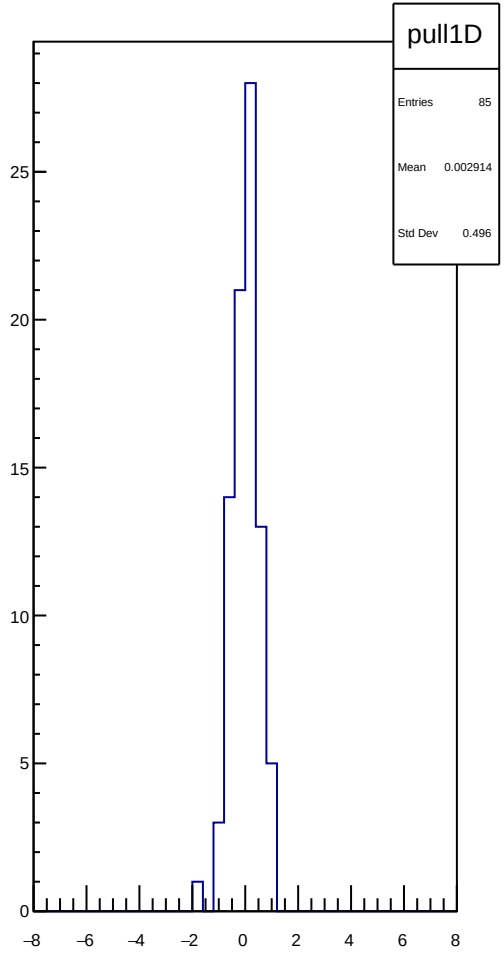

pull1D
Entries 85
Mean 0.02846
Std Dev 0.8403

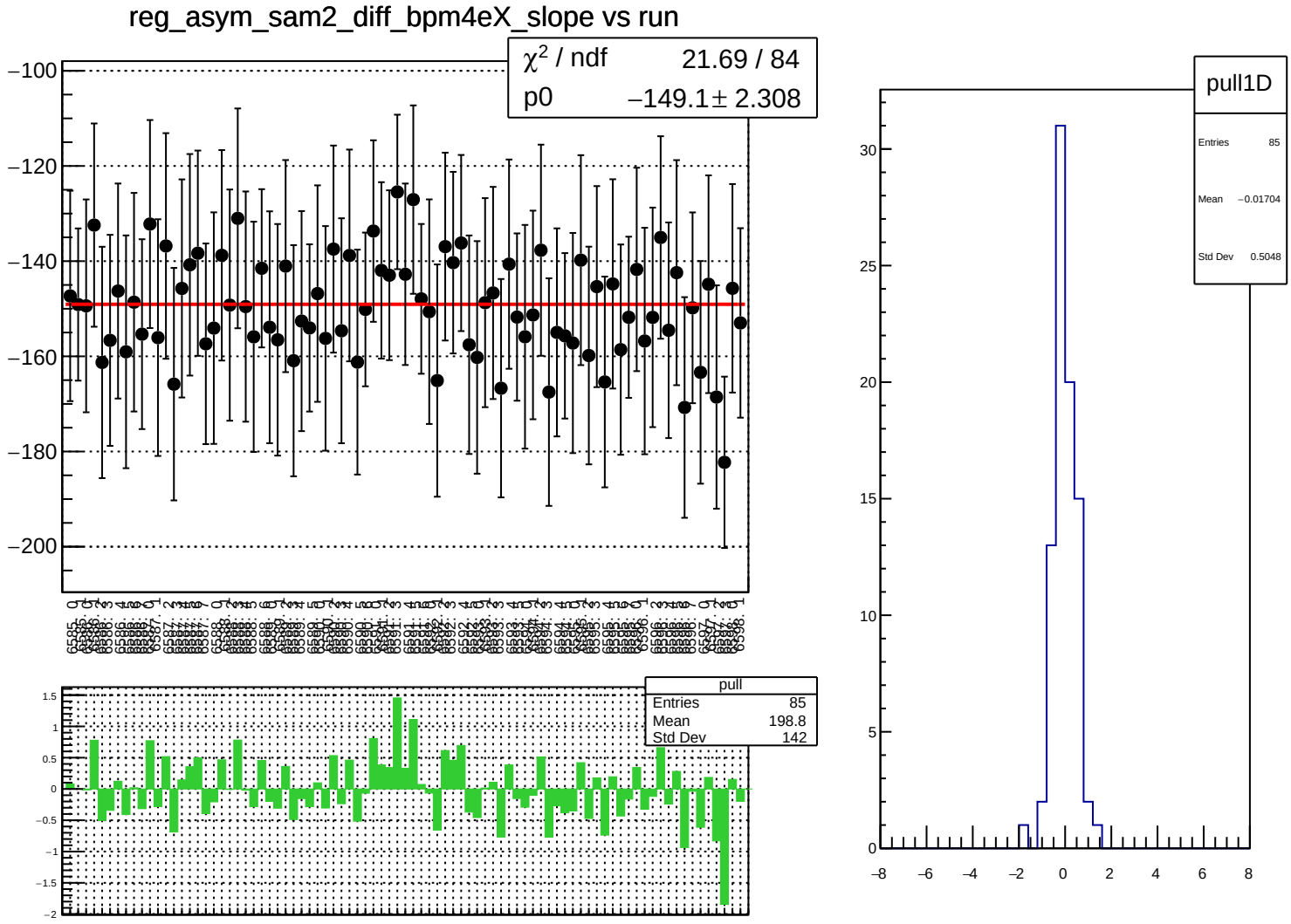

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 94.03 / 84
p0 0.5401± 0.01486
pull
Entries 85
Mean −135
Std Dev 177.9
pull1D
Entries 85
Mean 0.0474
Std Dev 1.051

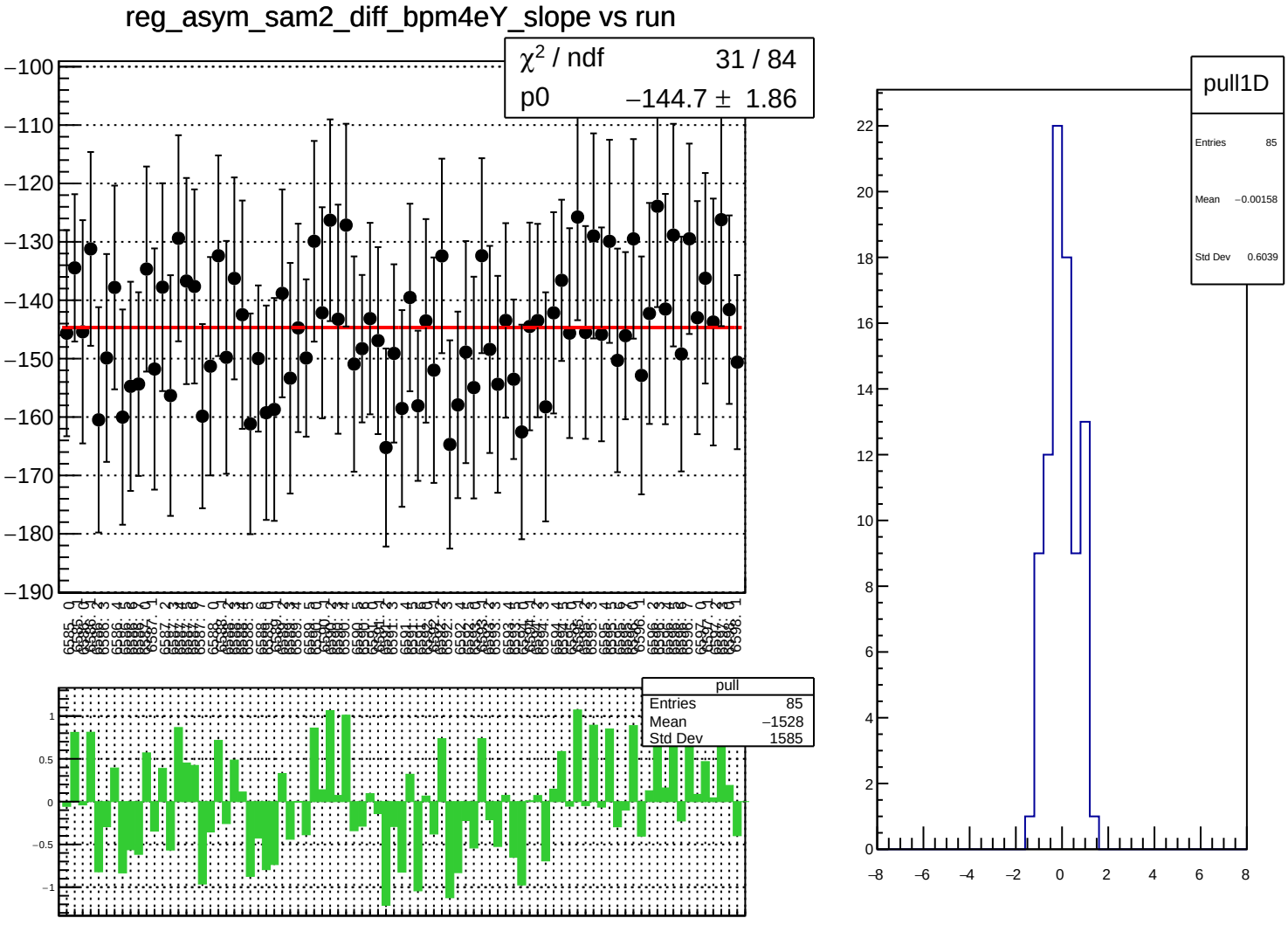

reg_asym_sam2_diff_bpm1X_slope vs run
χ^2 / ndf 19.65 / 84
p0 −52.87 ± 2.171
pull
Entries 85
Mean 155.3
Std Dev 88.92

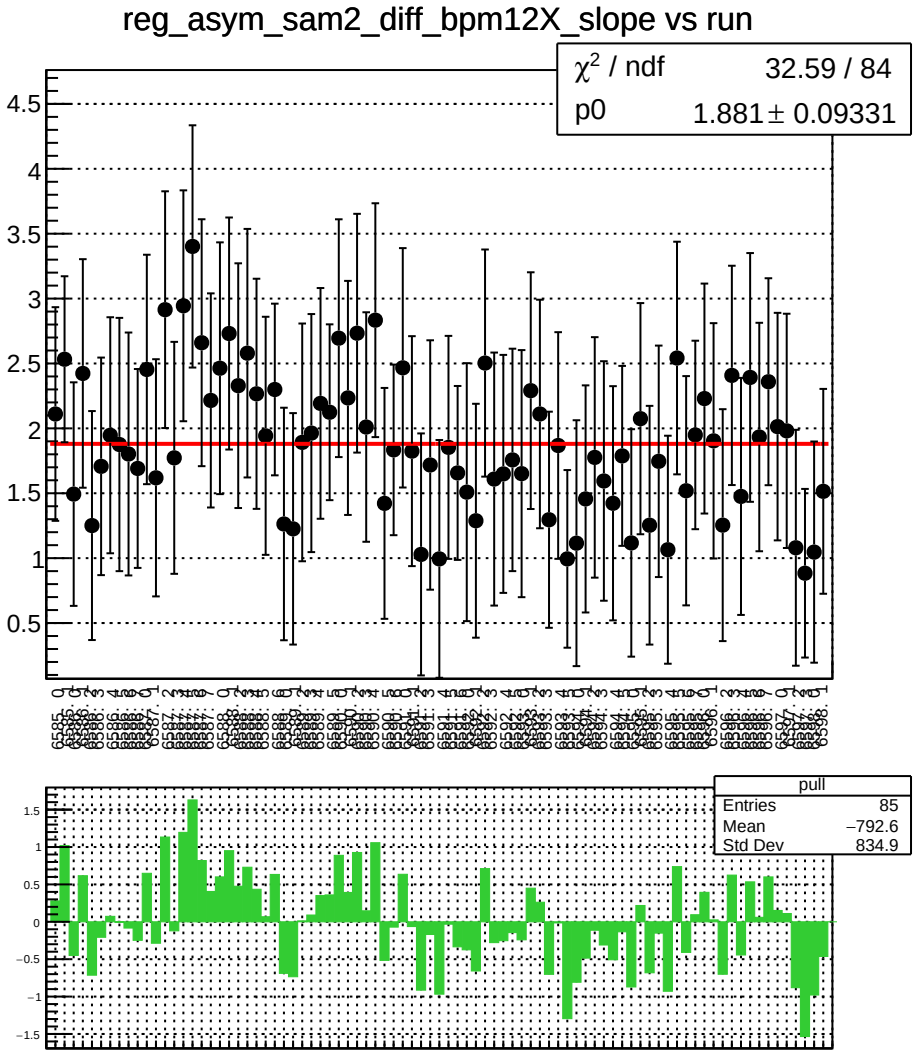

pull1D
Entries 85
Mean 0.01832
Std Dev 0.4804

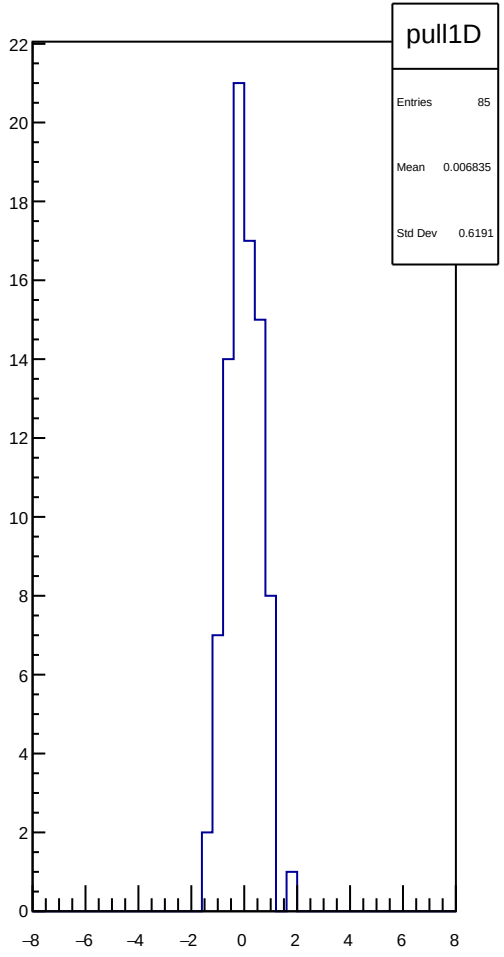

reg_asym_sam2_diff_bpm4aY_slope vs run
χ^2 / ndf 20.91 / 84
p0 −35.39 ± 1.543
pull
Entries 85
Mean −811.6
Std Dev 865.6

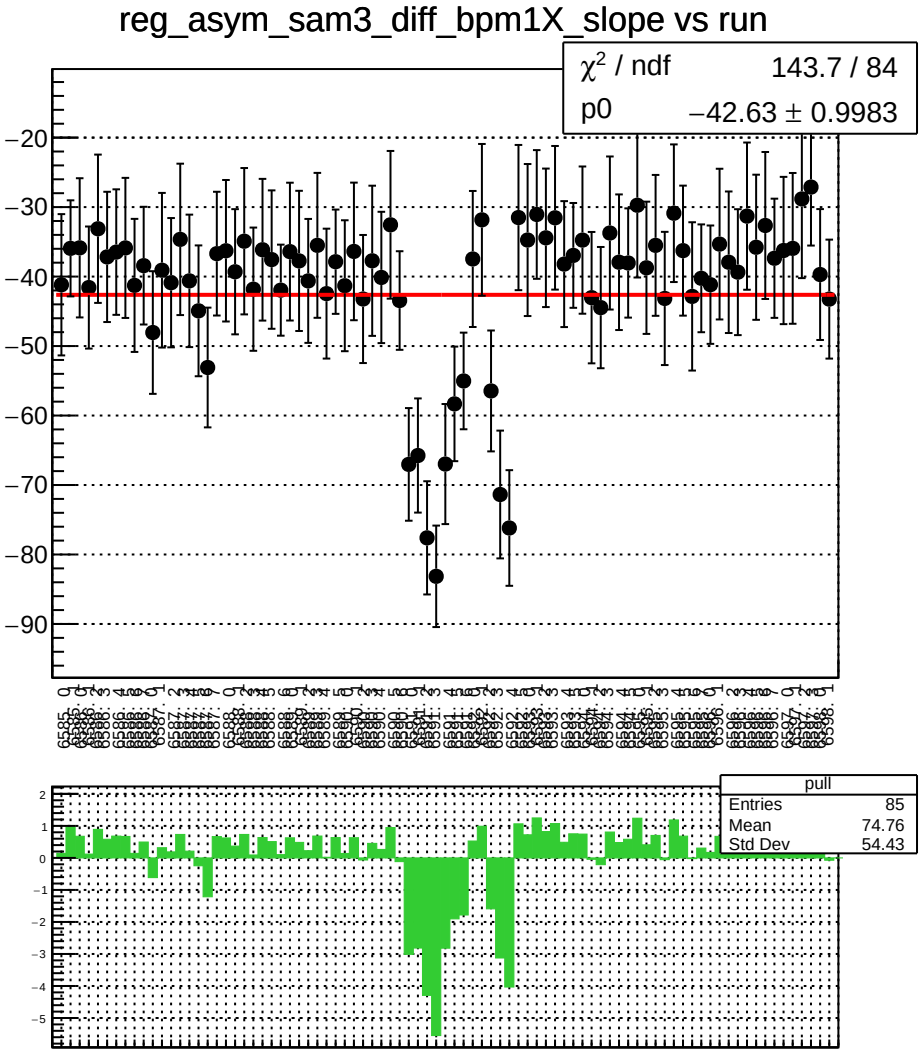

pull1D
Entries 85
Mean 0.002914
Std Dev 0.496

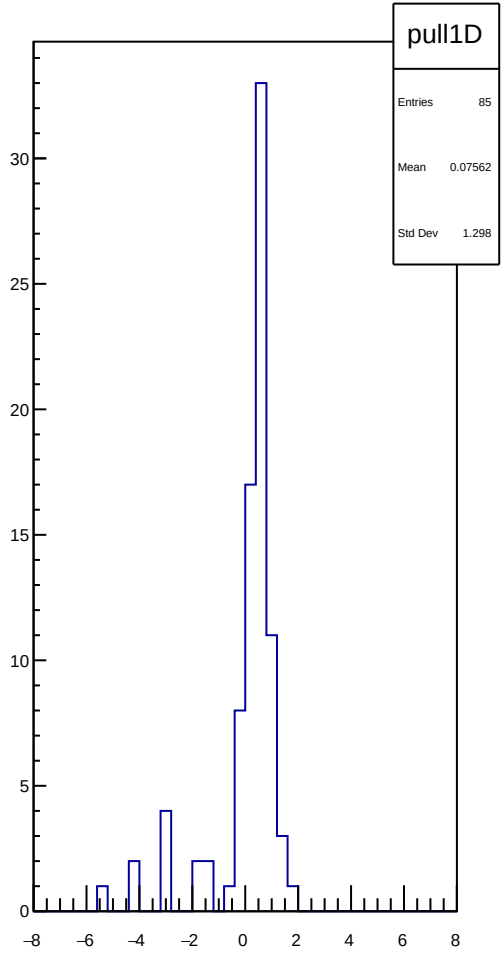

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 21.69 / 84
p0 −149.1 ± 2.308
pull
Entries 85
Mean 198.8
Std Dev 142
pull1D
Entries 85
Mean −0.01704
Std Dev 0.5048

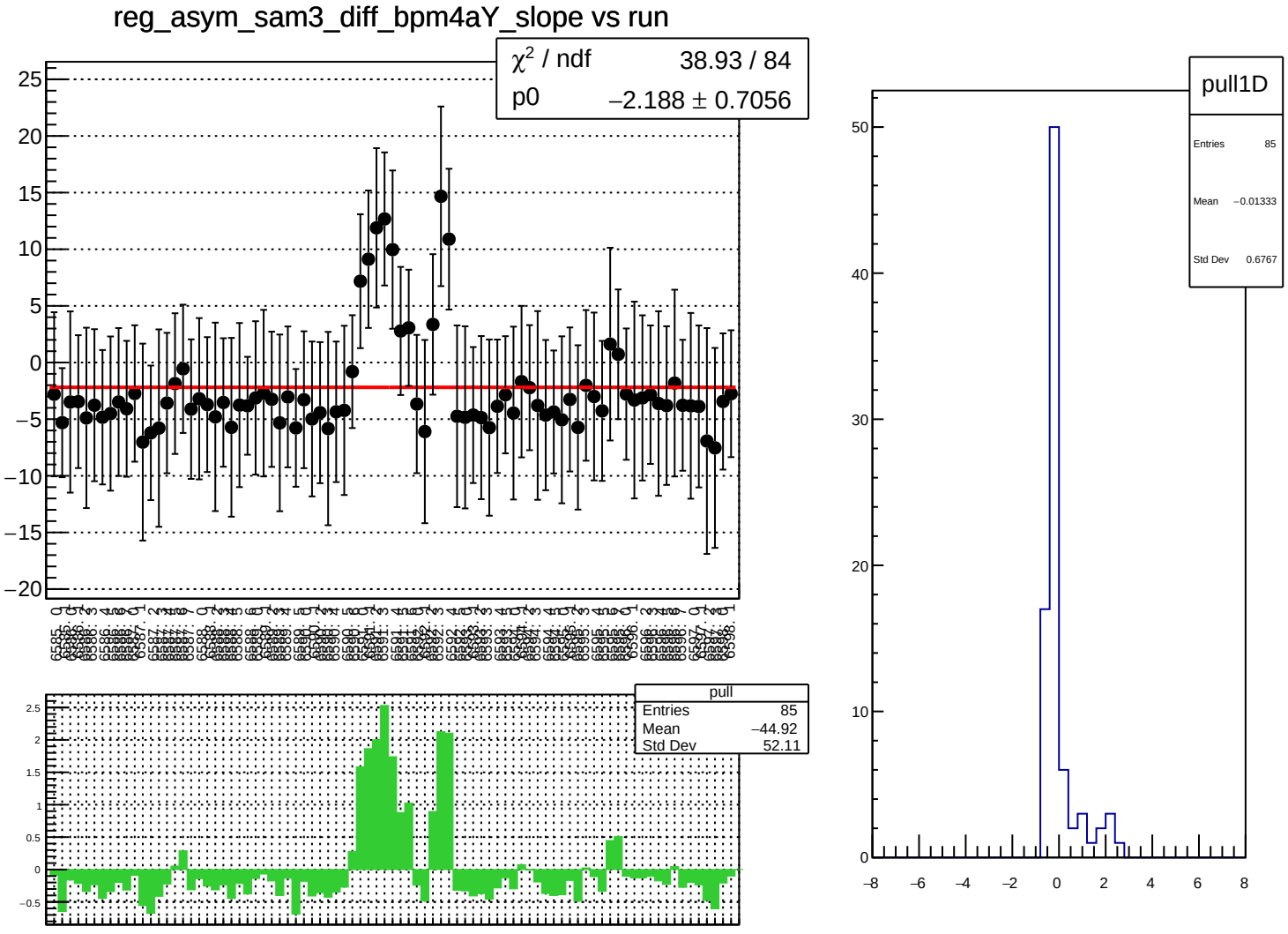

reg_asym_sam2_diff_bpm4eY_slope vs run
χ^2 / ndf 31 / 84
p0 −144.7 ± 1.86
pull
Entries 85
Mean −1528
Std Dev 1585
pull1D
Entries 85
Mean −0.00158
Std Dev 0.6039

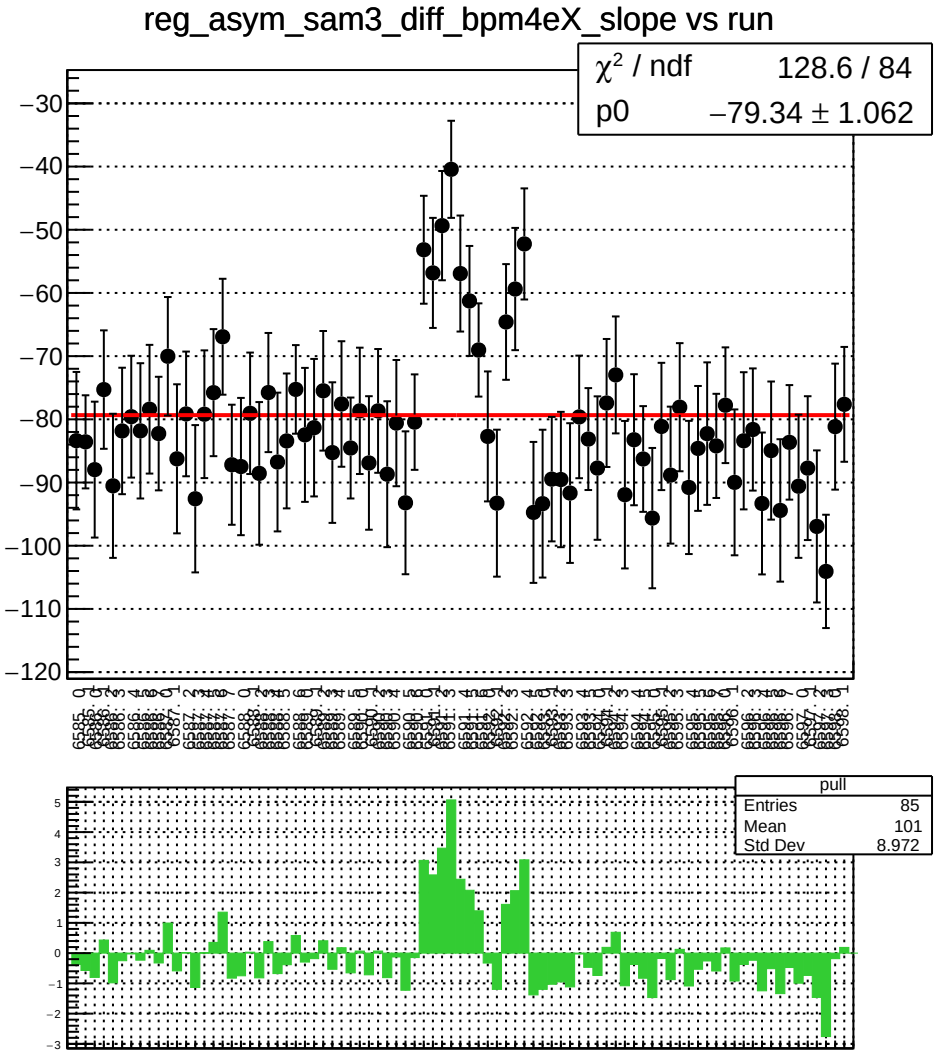

reg_asym_sam2_diff_bpm12X_slope vs run
χ^2 / ndf 32.59 / 84
p0 1.881 ± 0.09331
pull
Entries 85
Mean −792.6
Std Dev 834.9

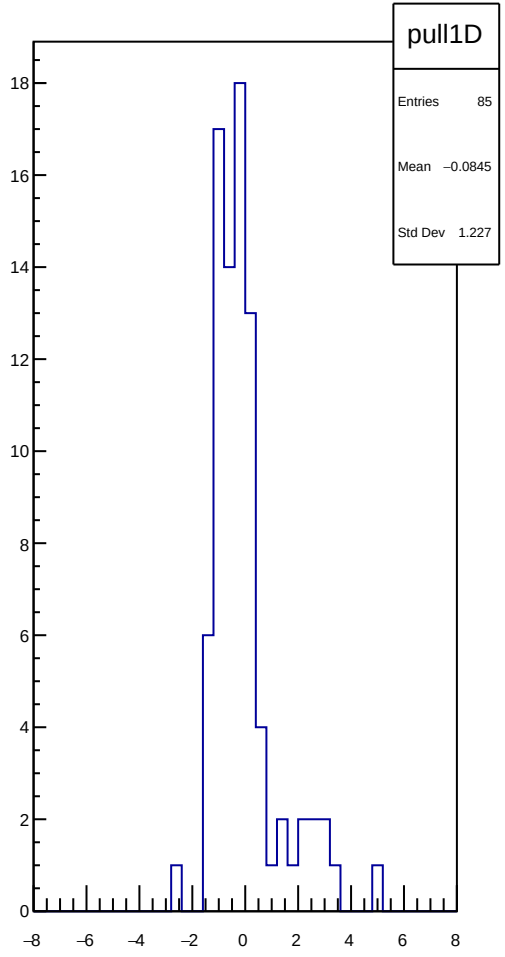

pull1D
Entries 85
Mean 0.006835
Std Dev 0.6191

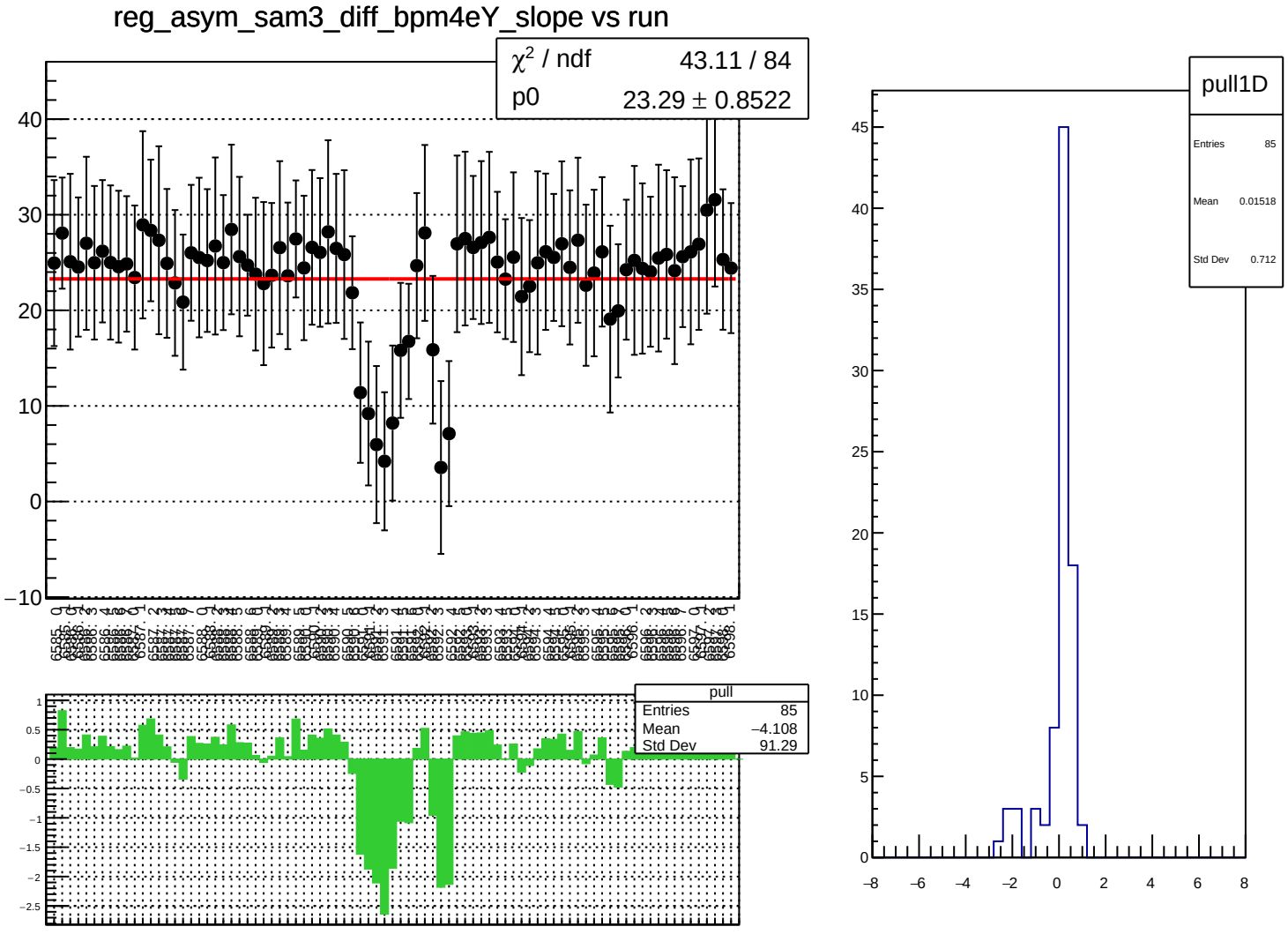

reg_asym_sam3_diff_bpm1X_slope vs run
χ^2 / ndf 143.7 / 84
p0 −42.63 ± 0.9983
pull
Entries 85
Mean 74.76
Std Dev 54.43

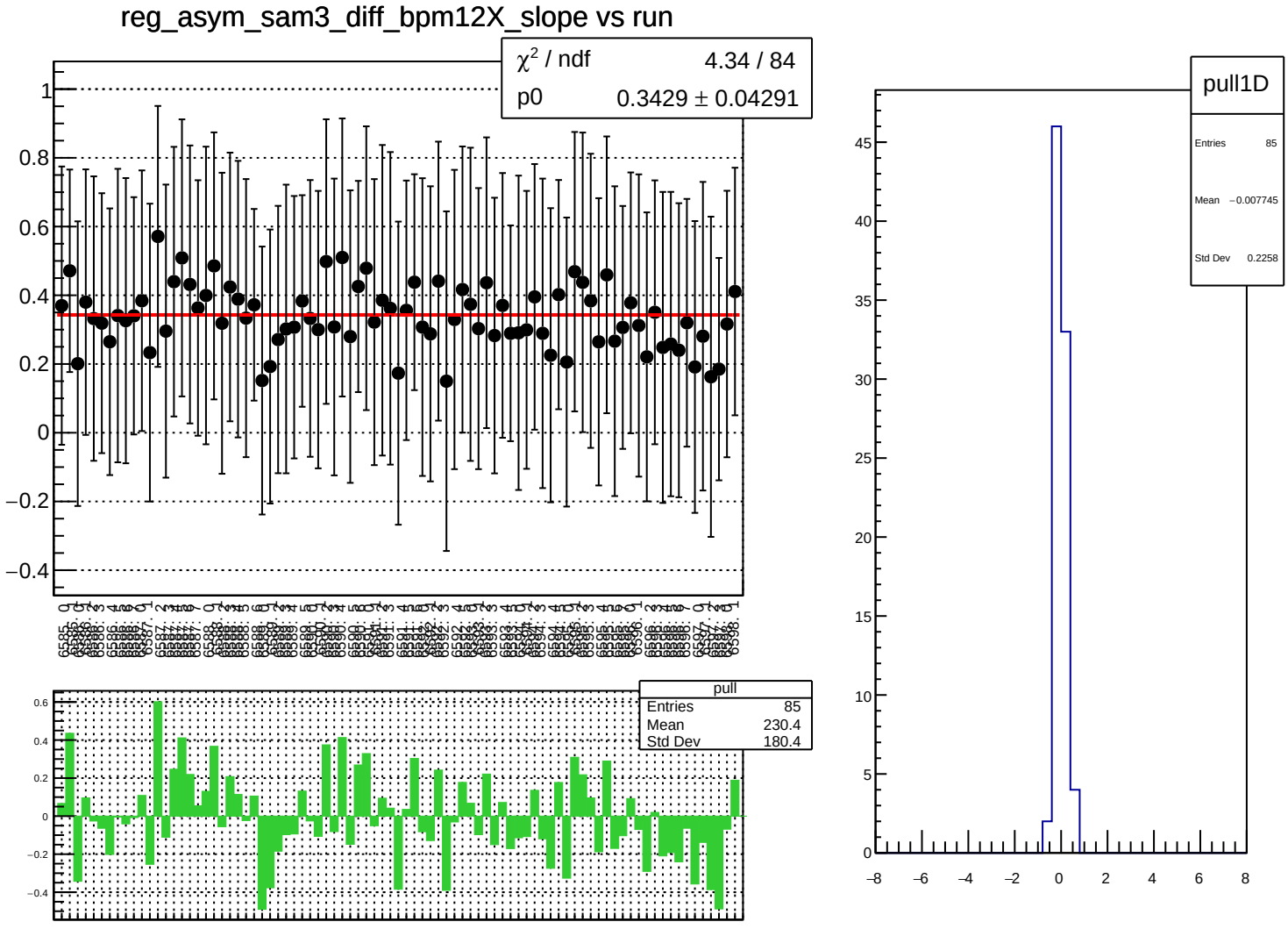

pull1D
Entries 85
Mean 0.07562
Std Dev 1.298

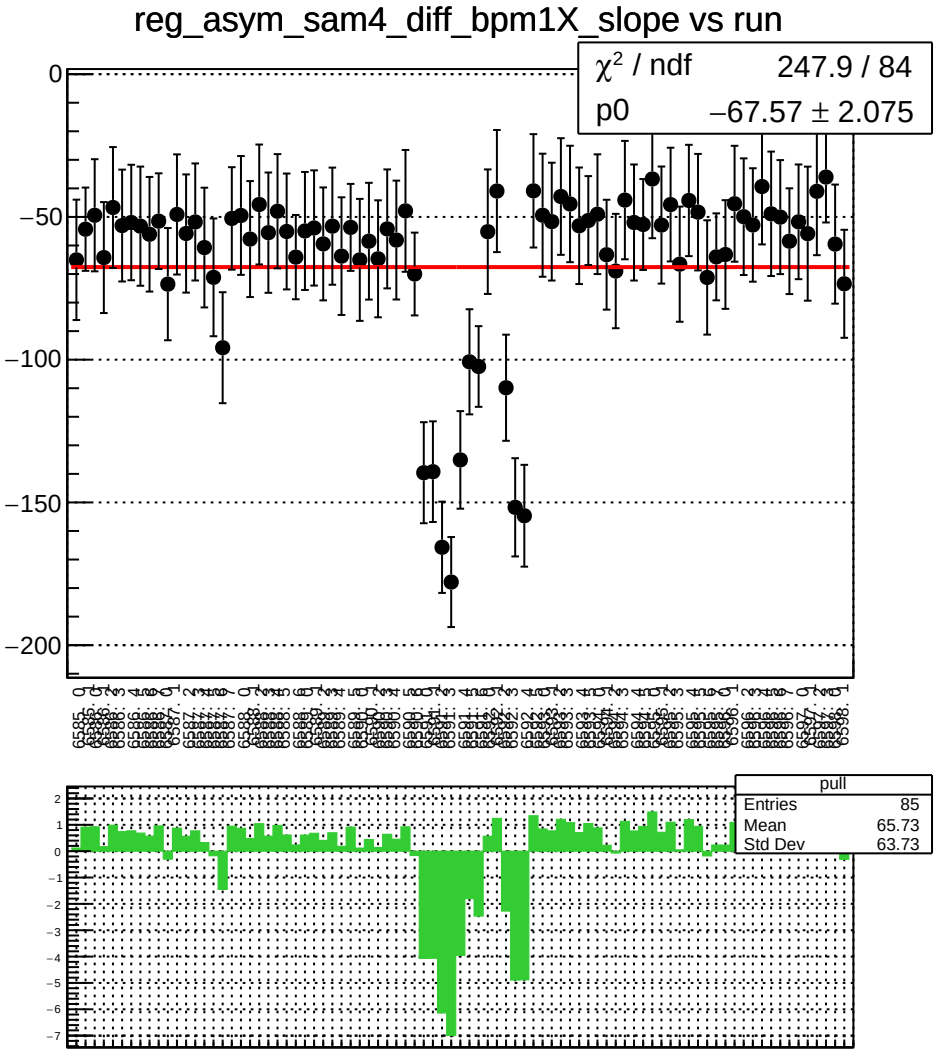

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 38.93 / 84
p0 −2.188 ± 0.7056
pull
Entries 85
Mean −44.92
Std Dev 52.11
pull1D
Entries 85
Mean −0.01333
Std Dev 0.6767

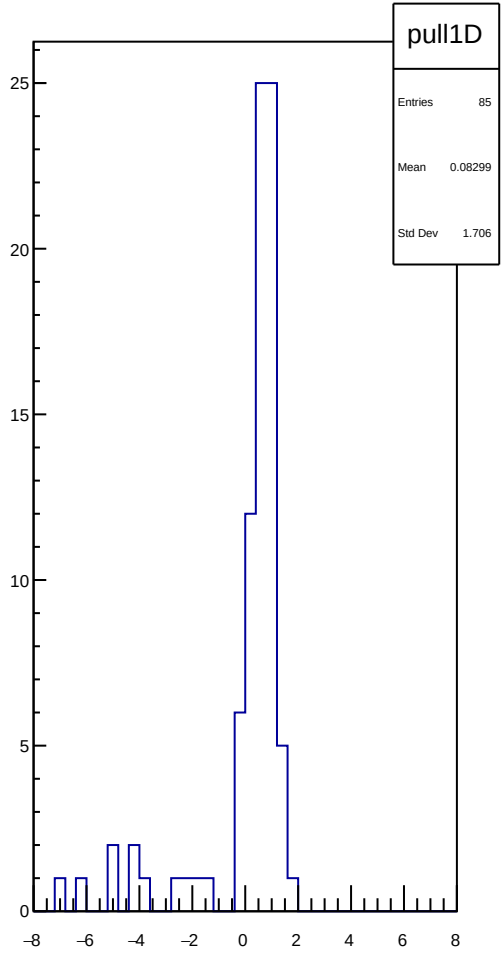

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 128.6 / 84
p0 −79.34 ± 1.062
pull
Entries 85
Mean 101
Std Dev 8.972

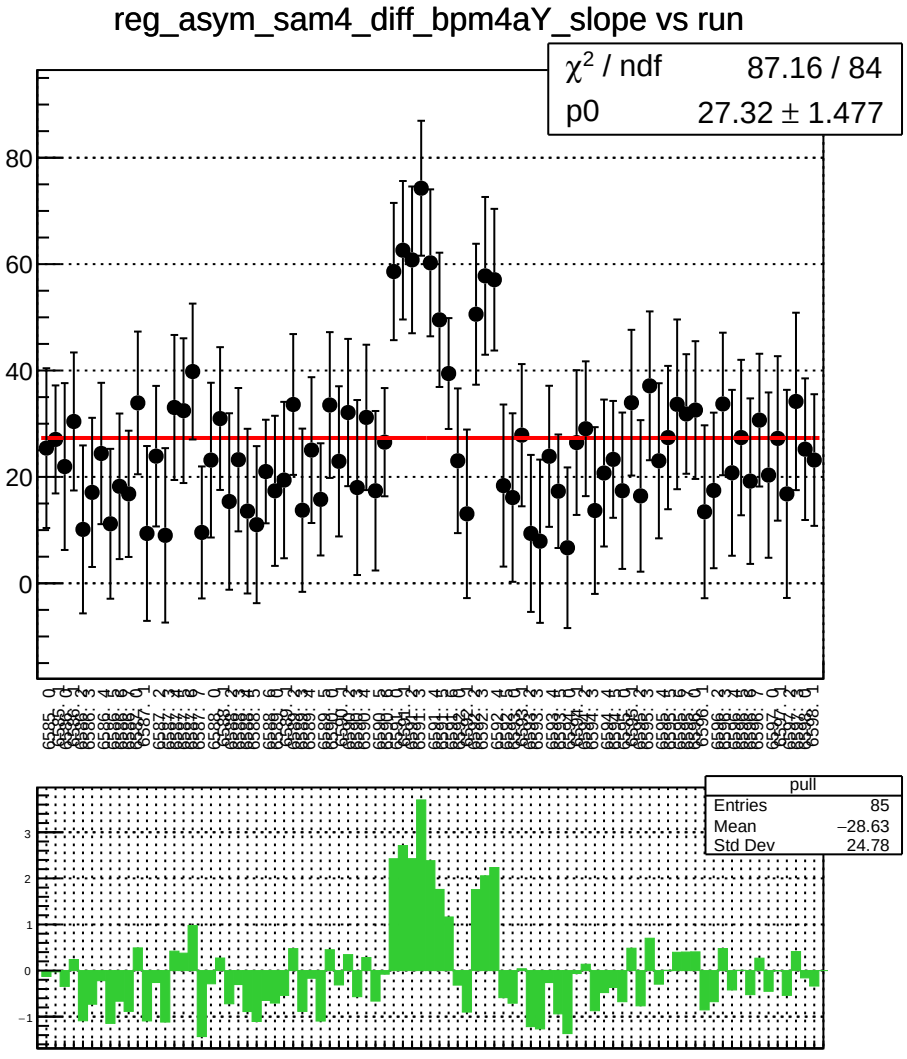

pull1D
Entries 85
Mean −0.0845
Std Dev 1.227

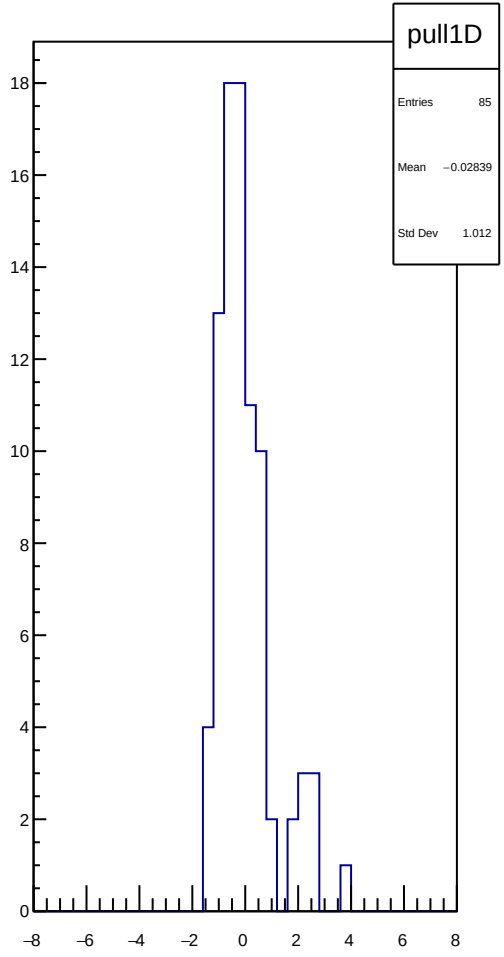

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 43.11 / 84
p0 23.29 ± 0.8522
pull
Entries 85
Mean −4.108
Std Dev 91.29
pull1D
Entries 85
Mean 0.01518
Std Dev 0.712

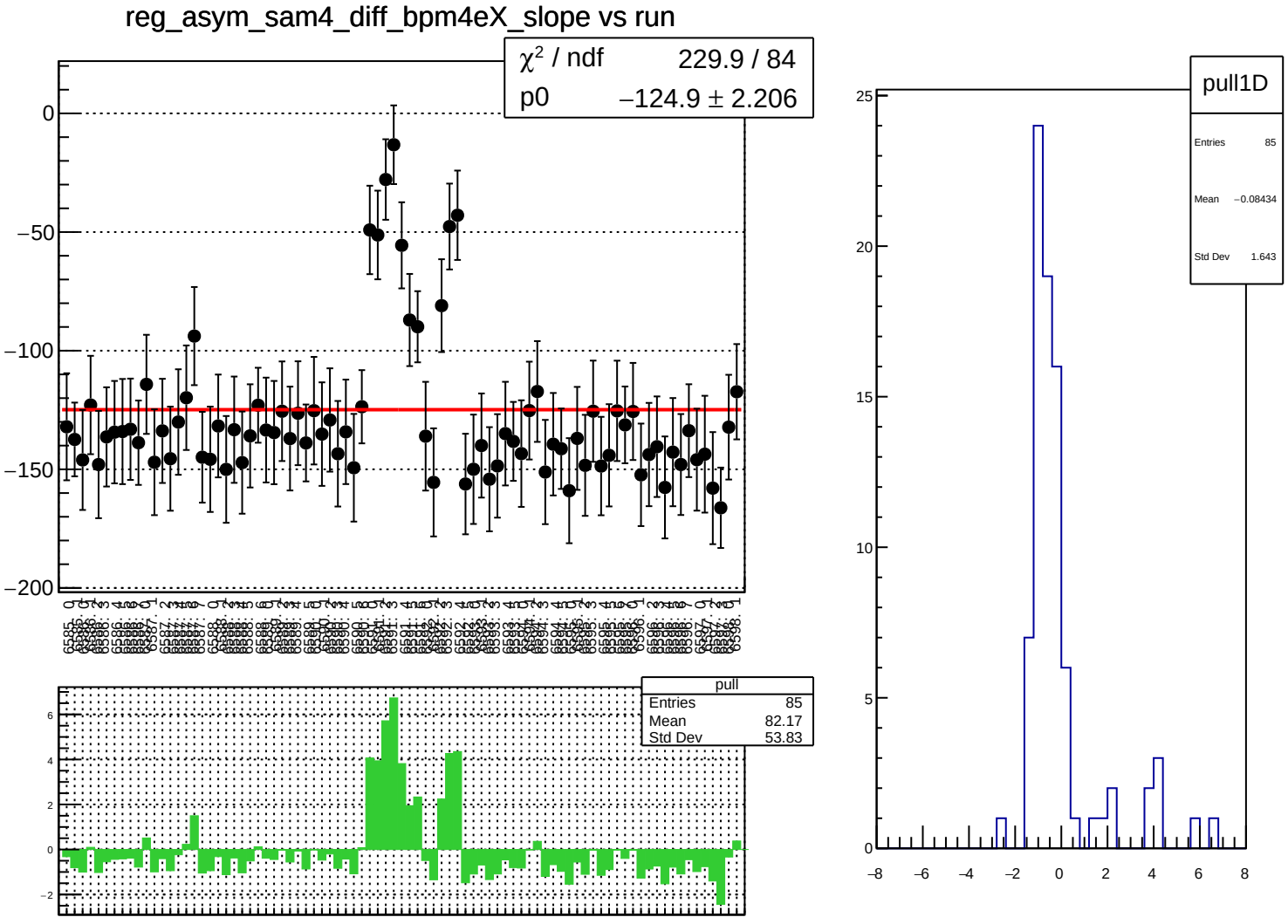

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.34 / 84
p0 0.3429 ± 0.04291
pull
Entries 85
Mean 230.4
Std Dev 180.4
pull1D
Entries 85
Mean −0.007745
Std Dev 0.2258

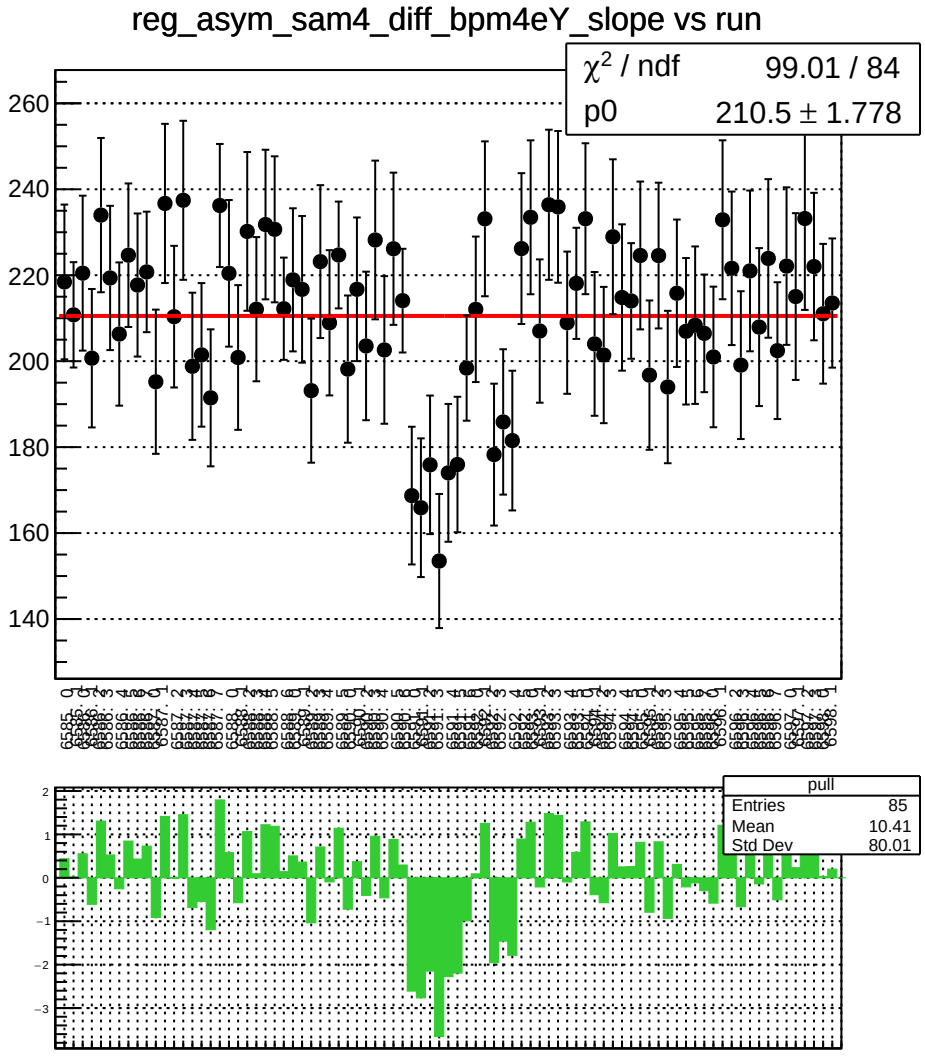

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 247.9 / 84
p0 −67.57 ± 2.075
pull
Entries 85
Mean 65.73
Std Dev 63.73

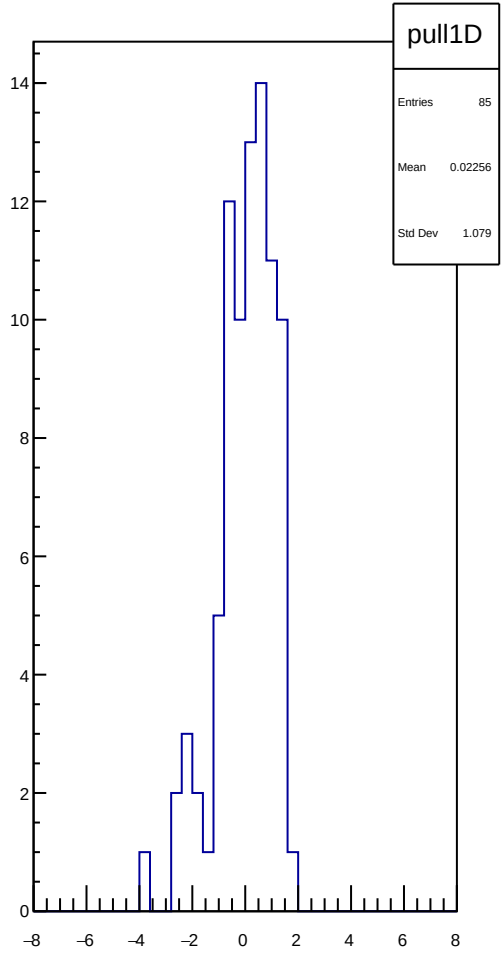

pull1D
Entries 85
Mean 0.08299
Std Dev 1.706

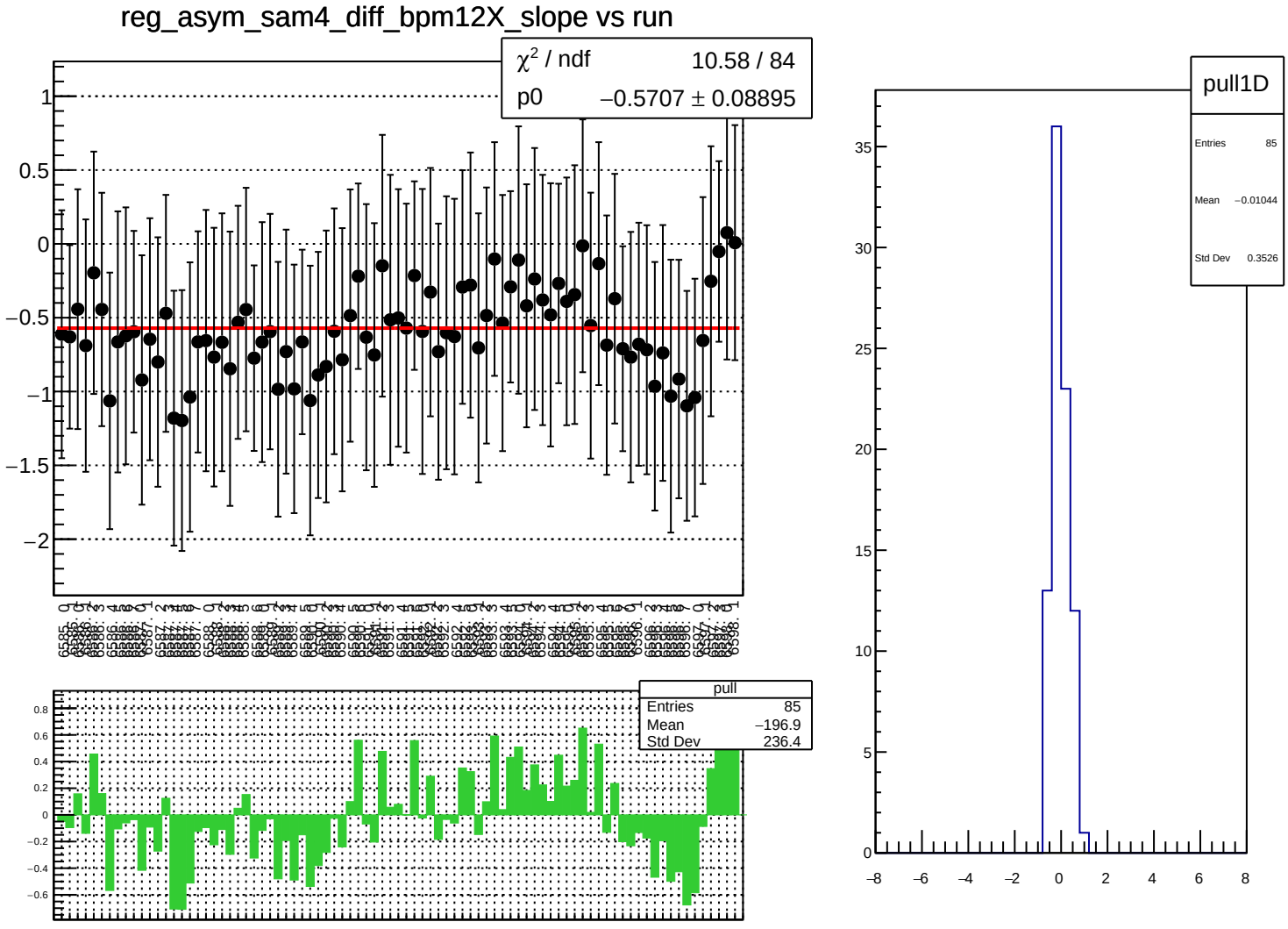

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 87.16 / 84
p0 27.32 ± 1.477
pull
Entries 85
Mean −28.63
Std Dev 24.78

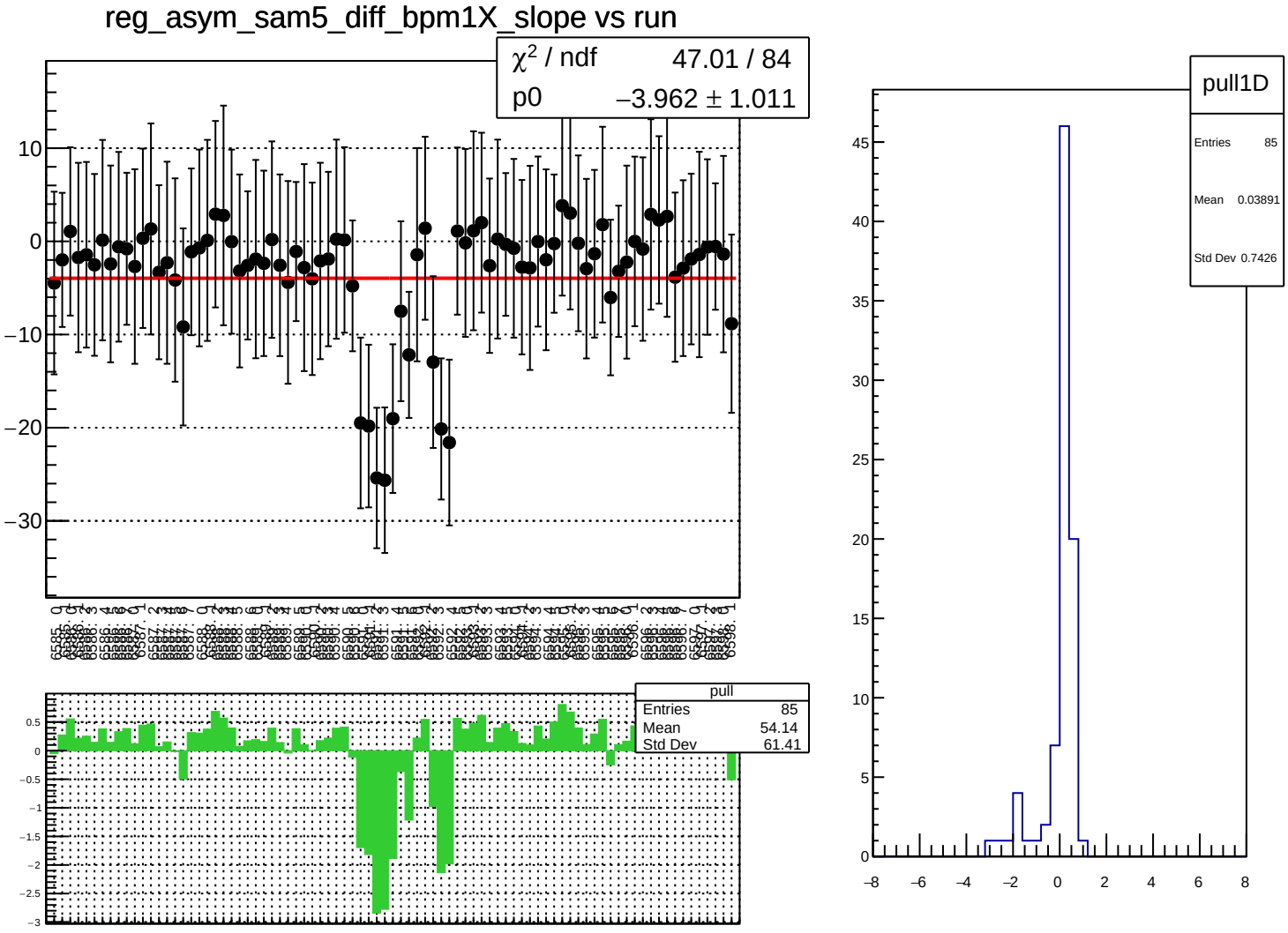

pull1D
Entries 85
Mean −0.02839
Std Dev 1.012

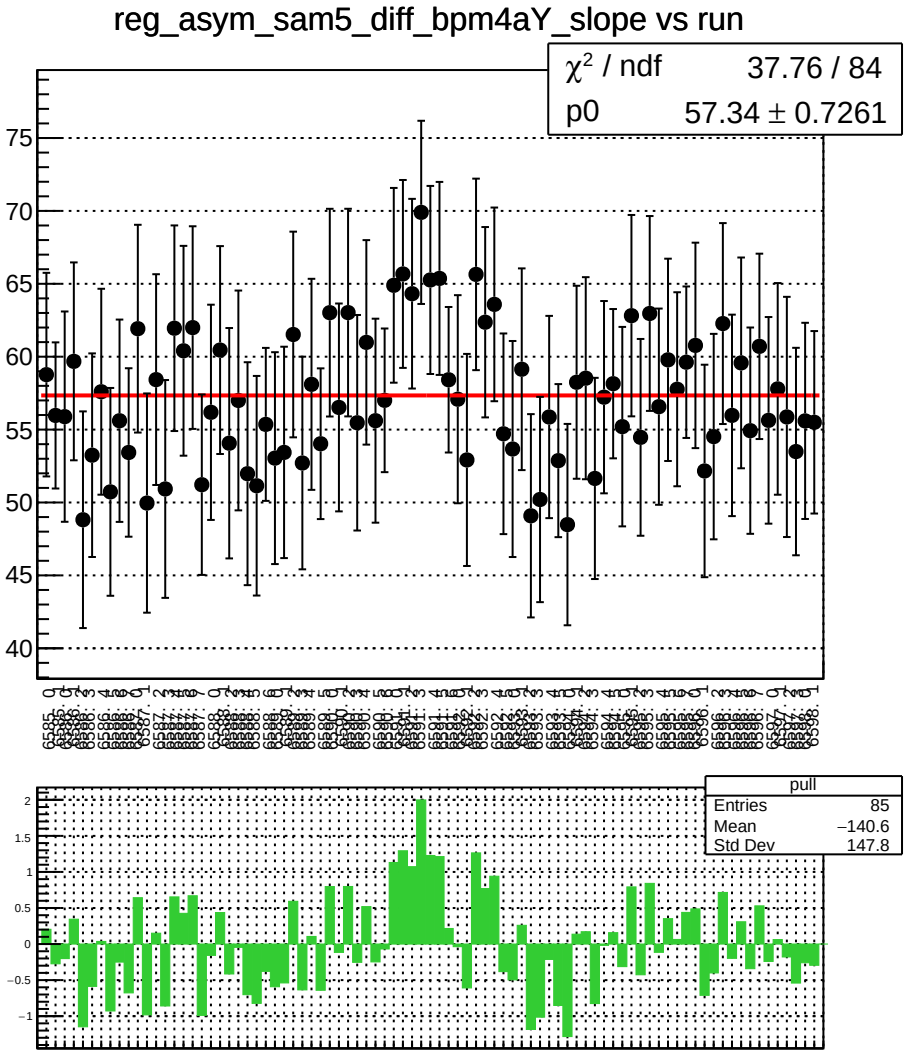

reg_asym_sam4_diff_bpm4eX_slope vs run
χ^2 / ndf 229.9 / 84
p0 −124.9 ± 2.206
pull
Entries 85
Mean 82.17
Std Dev 53.83
pull1D
Entries 85
Mean −0.08434
Std Dev 1.643

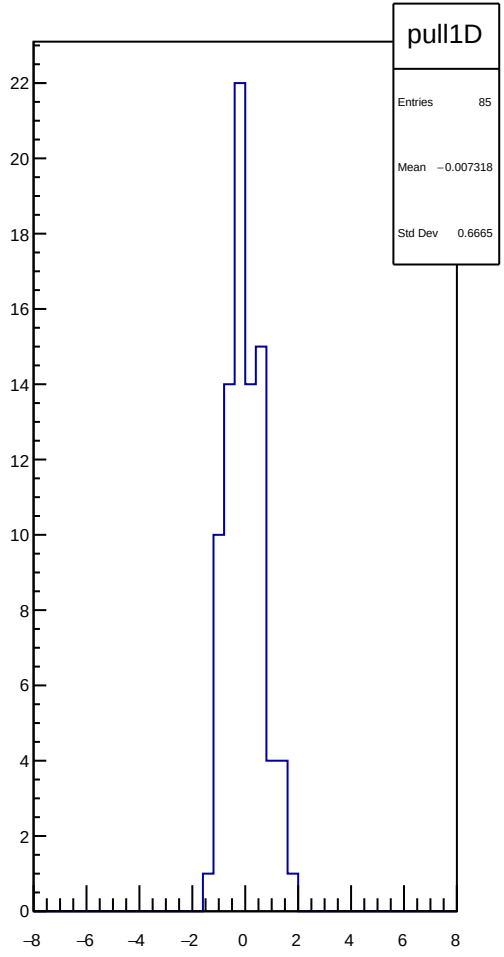

reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 99.01 / 84
p0 210.5 ± 1.778
pull
Entries 85
Mean 10.41
Std Dev 80.01

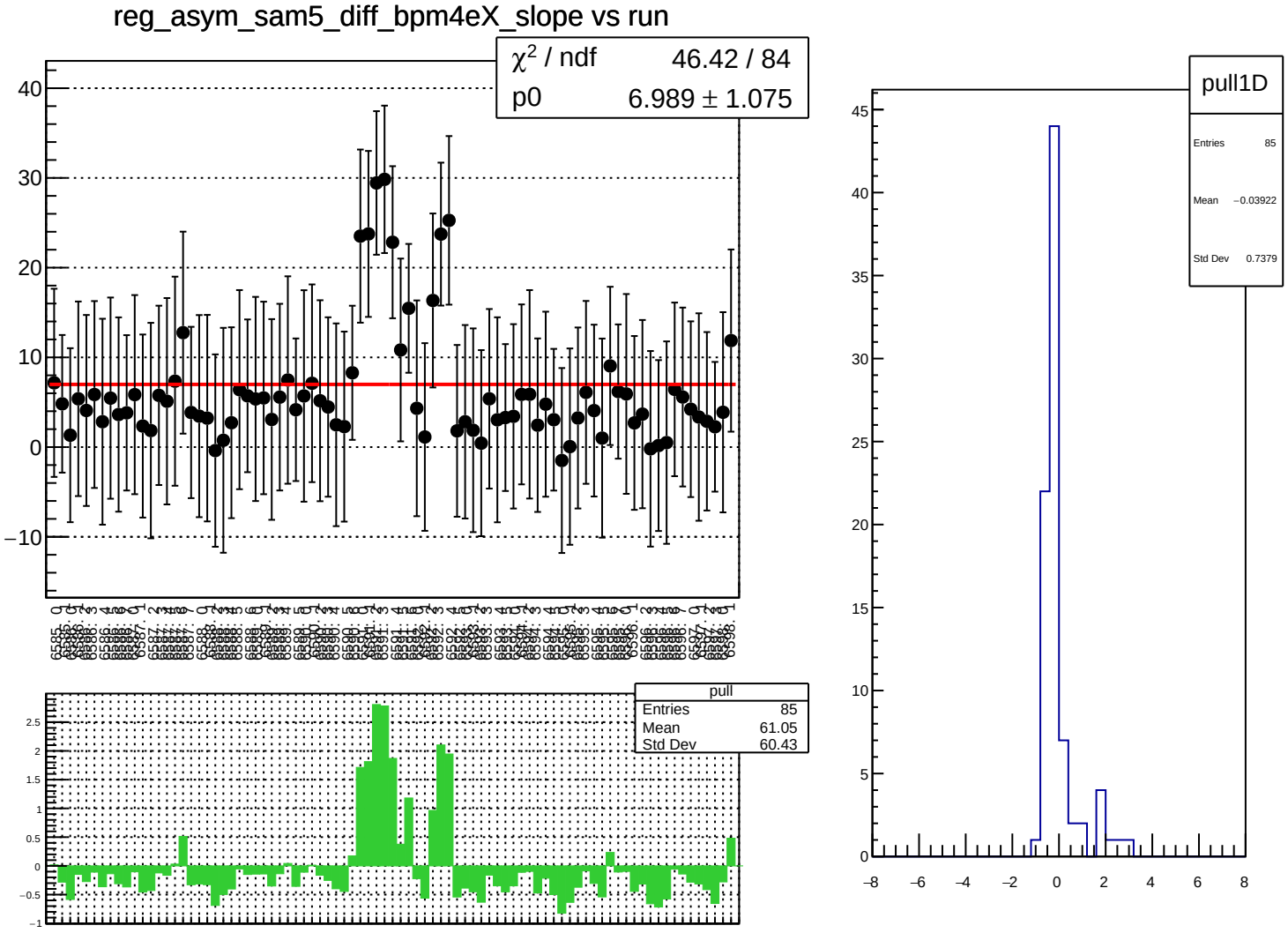

pull1D
Entries 85
Mean 0.02256
Std Dev 1.079

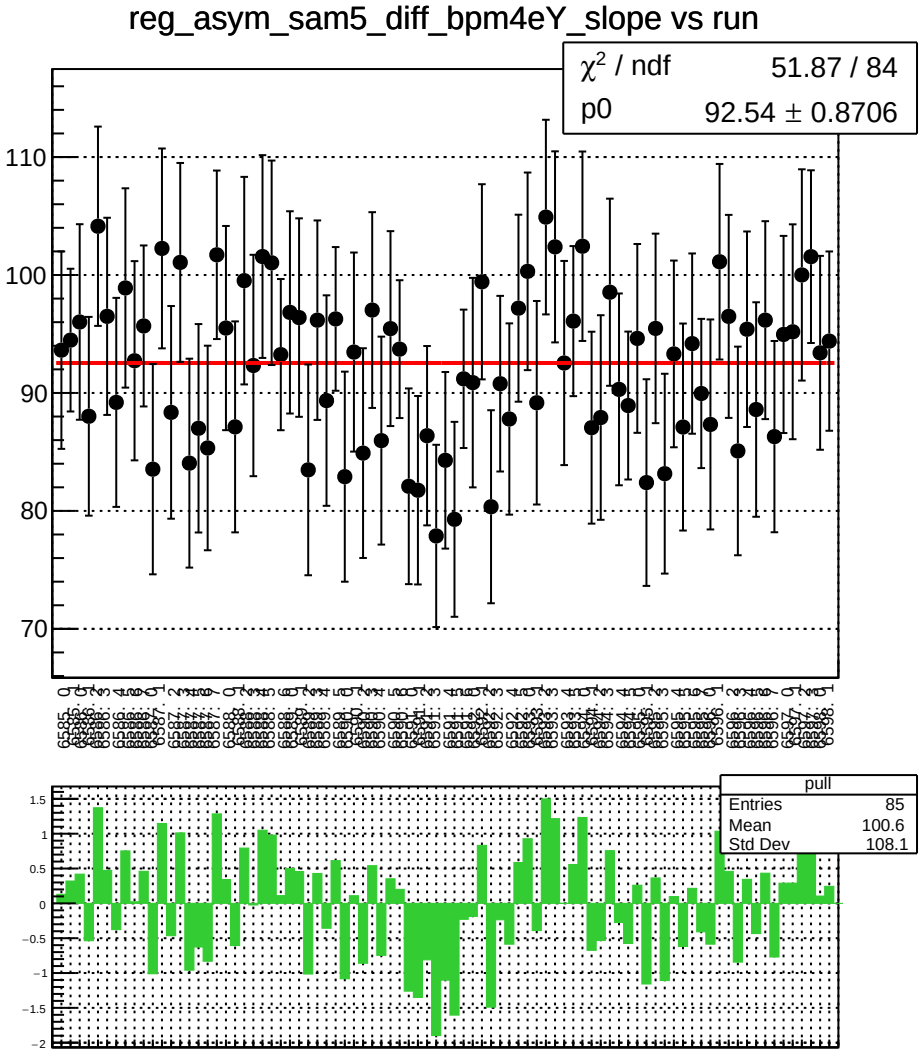

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 10.58 / 84
p0 −0.5707 ± 0.08895
pull
Entries 85
Mean −196.9
Std Dev 236.4
pull1D
Entries 85
Mean −0.01044
Std Dev 0.3526

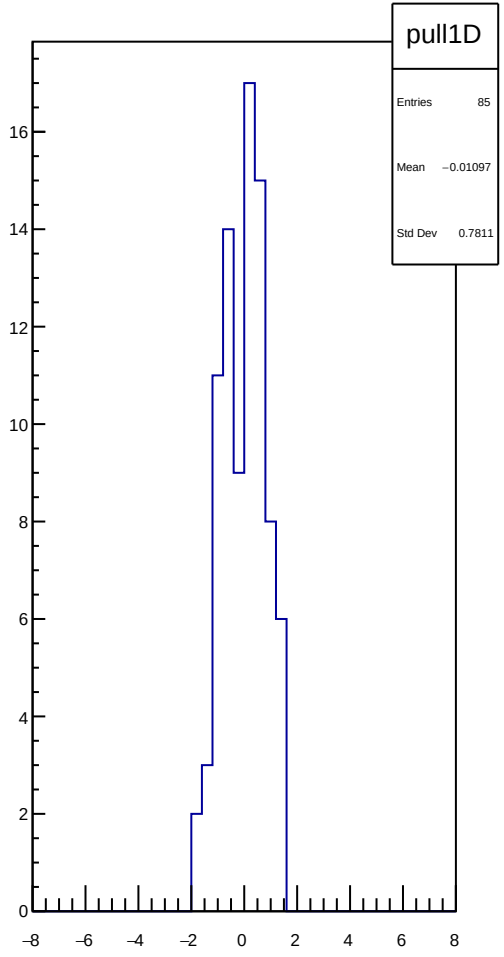

reg_asym_sam5_diff_bpm1X_slope vs run
χ^2 / ndf 47.01 / 84
p0 −3.962 ± 1.011
pull
Entries 85
Mean 54.14
Std Dev 61.41
pull1D
Entries 85
Mean 0.03891
Std Dev 0.7426

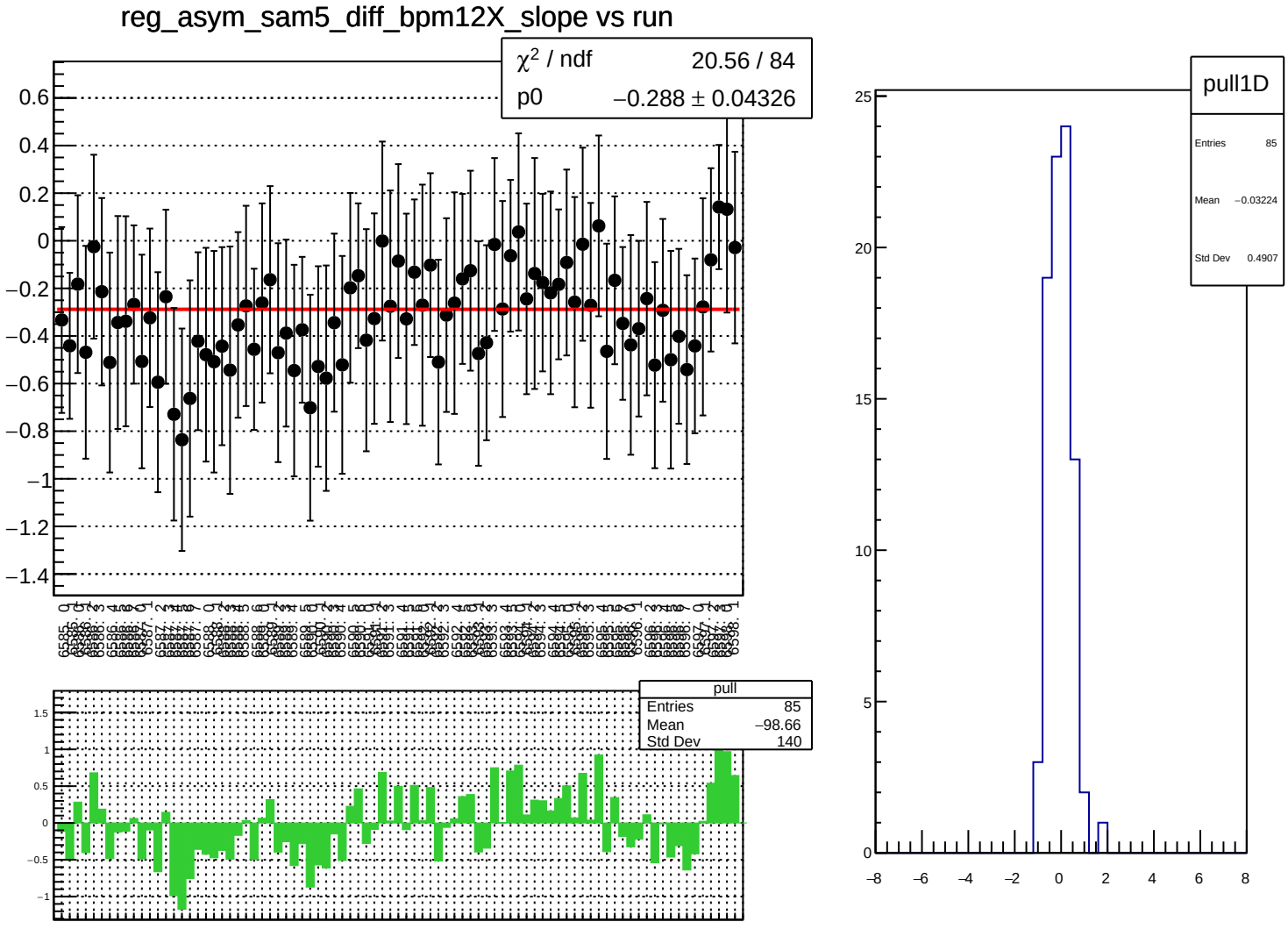

reg_asym_sam5_diff_bpm4aY_slope vs run
χ^2 / ndf 37.76 / 84
p0 57.34 ± 0.7261
pull
Entries 85
Mean −140.6
Std Dev 147.8

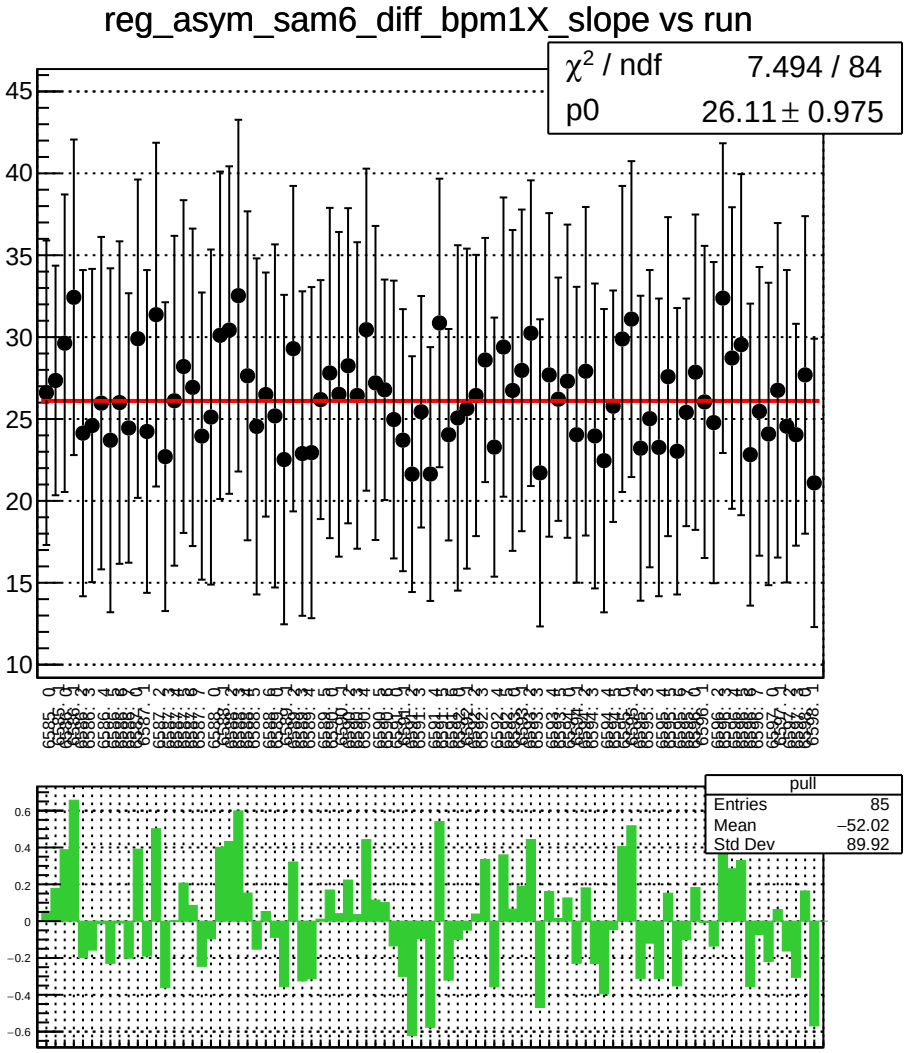

pull1D
Entries 85
Mean −0.007318
Std Dev 0.6665

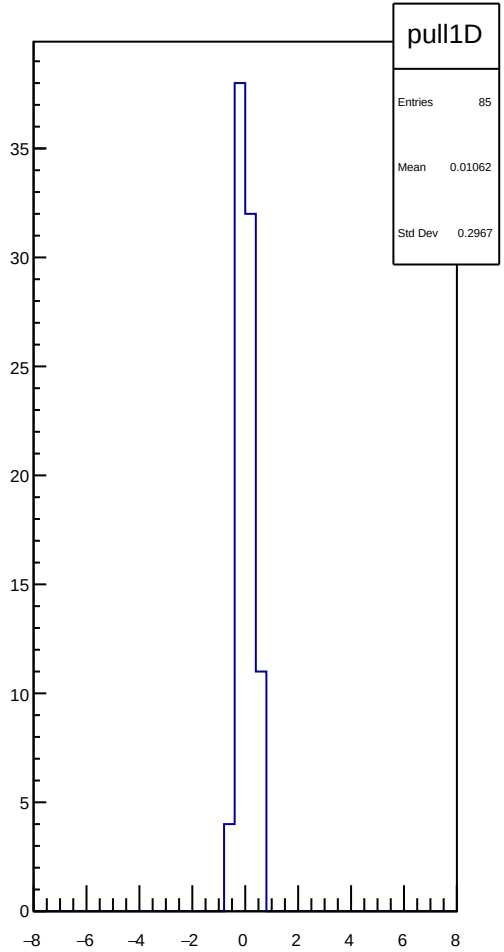

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 46.42 / 84
p0 6.989 ± 1.075
pull
Entries 85
Mean 61.05
Std Dev 60.43
pull1D
Entries 85
Mean −0.03922
Std Dev 0.7379

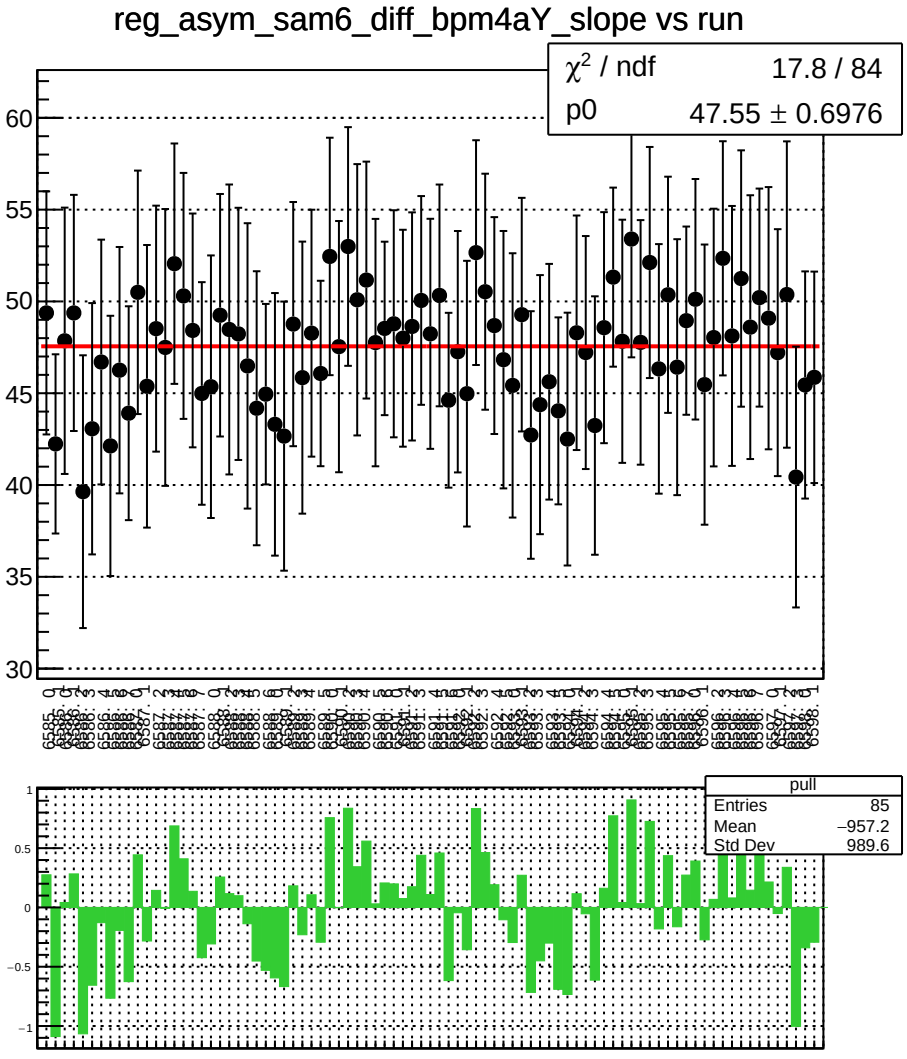

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 51.87 / 84
p0 92.54 ± 0.8706
pull
Entries 85
Mean 100.6
Std Dev 108.1

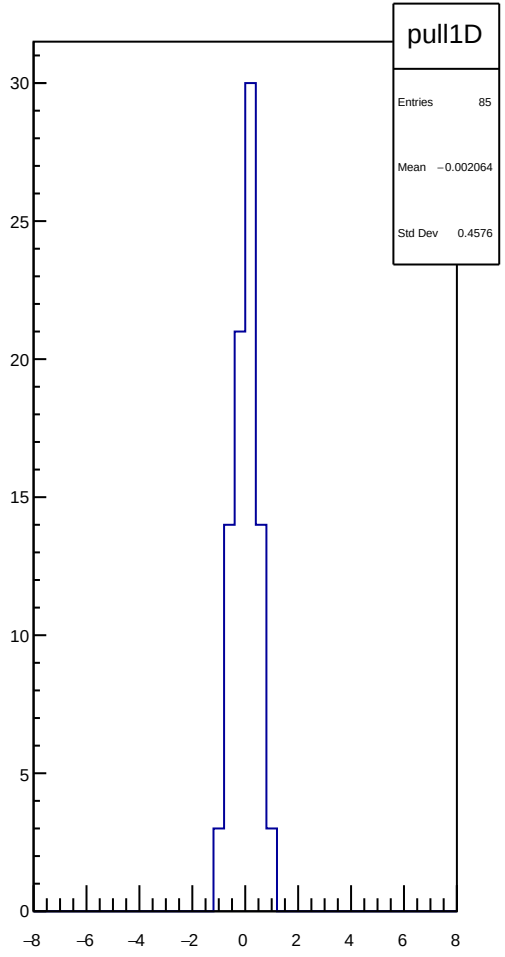

pull1D
Entries 85
Mean −0.01097
Std Dev 0.7811

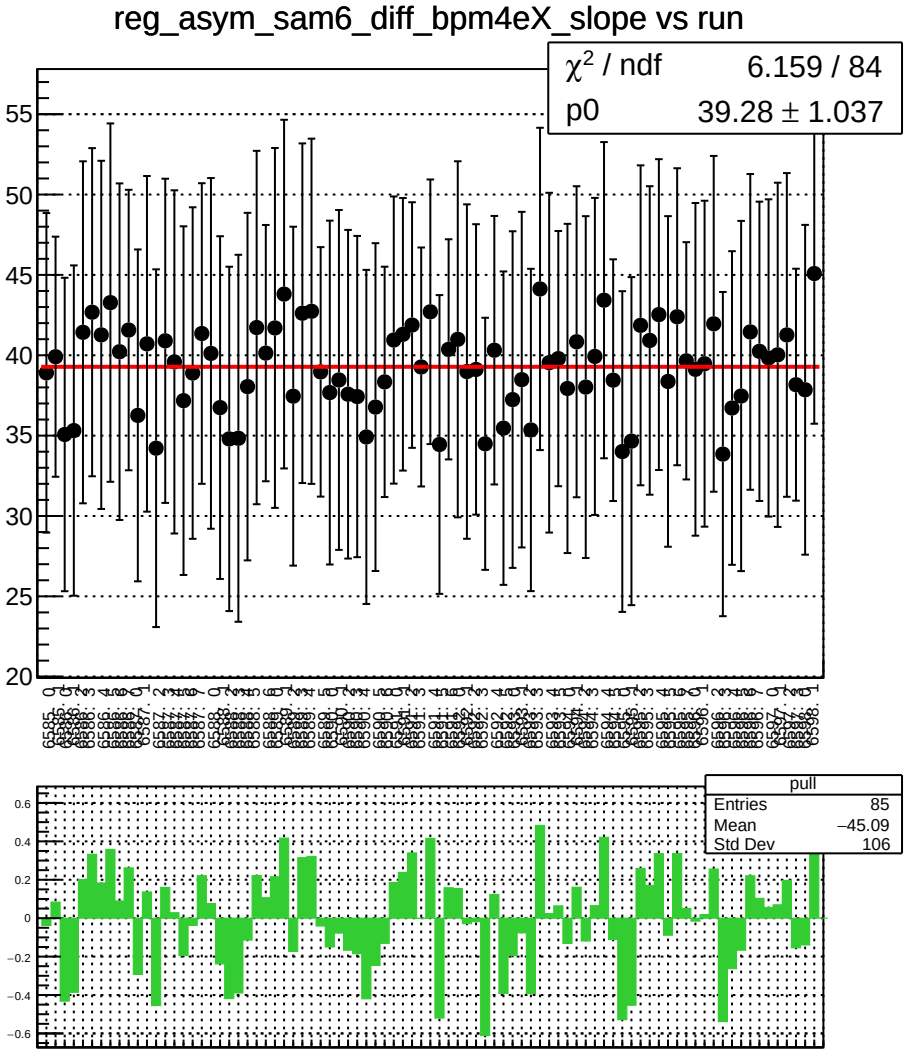

reg_asym_sam5_diff_bpm12X_slope vs run
χ^2 / ndf 20.56 / 84
p0 −0.288 ± 0.04326
pull
Entries 85
Mean −98.66
Std Dev 140
pull1D
Entries 85
Mean −0.03224
Std Dev 0.4907

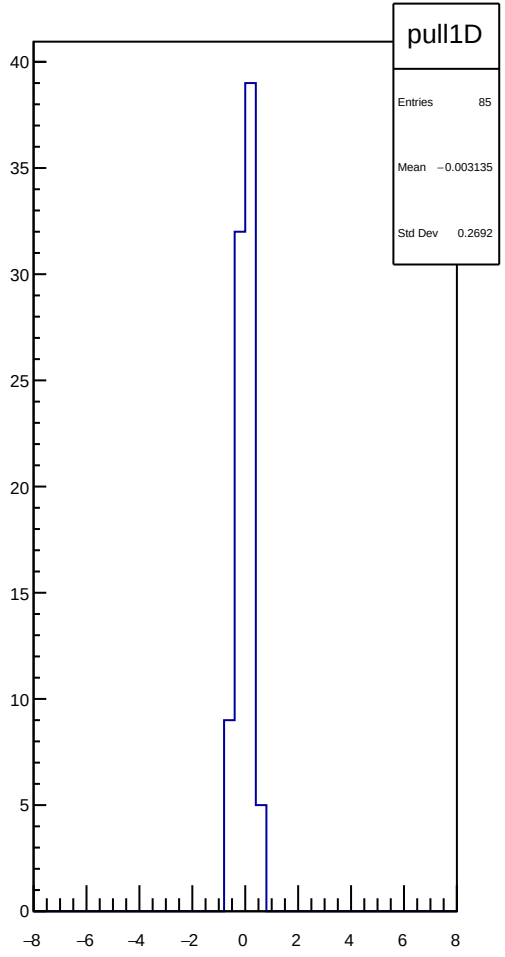

reg_asym_sam6_diff_bpm1X_slope vs run
χ^2 / ndf 7.494 / 84
p0 26.11 ± 0.975
pull
Entries 85
Mean −52.02
Std Dev 89.92

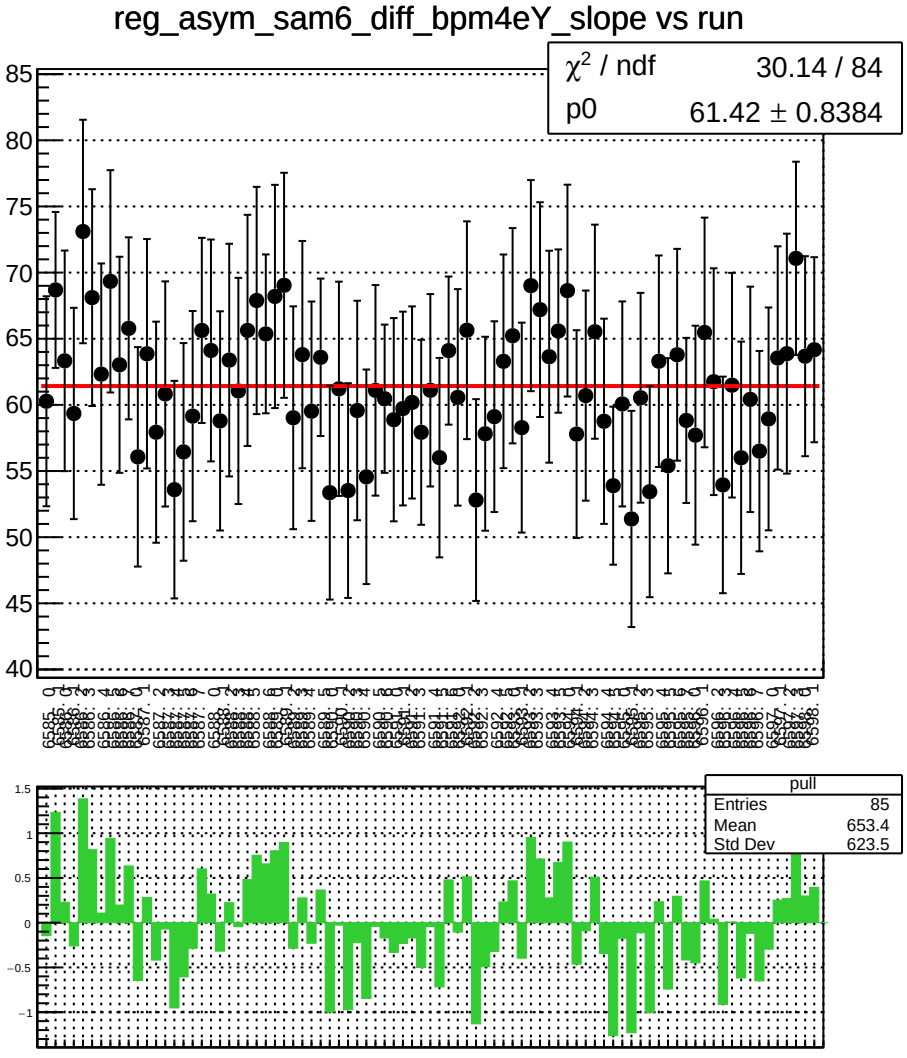

pull1D
Entries 85
Mean 0.01062
Std Dev 0.2967

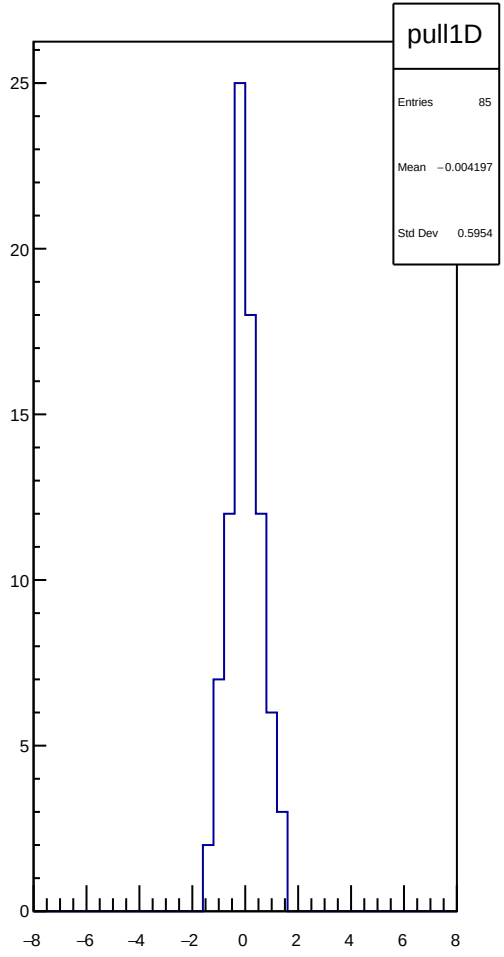

reg_asym_sam6_diff_bpm4aY_slope vs run
χ^2 / ndf 17.8 / 84
p0 47.55 ± 0.6976
pull
Entries 85
Mean −957.2
Std Dev 989.6

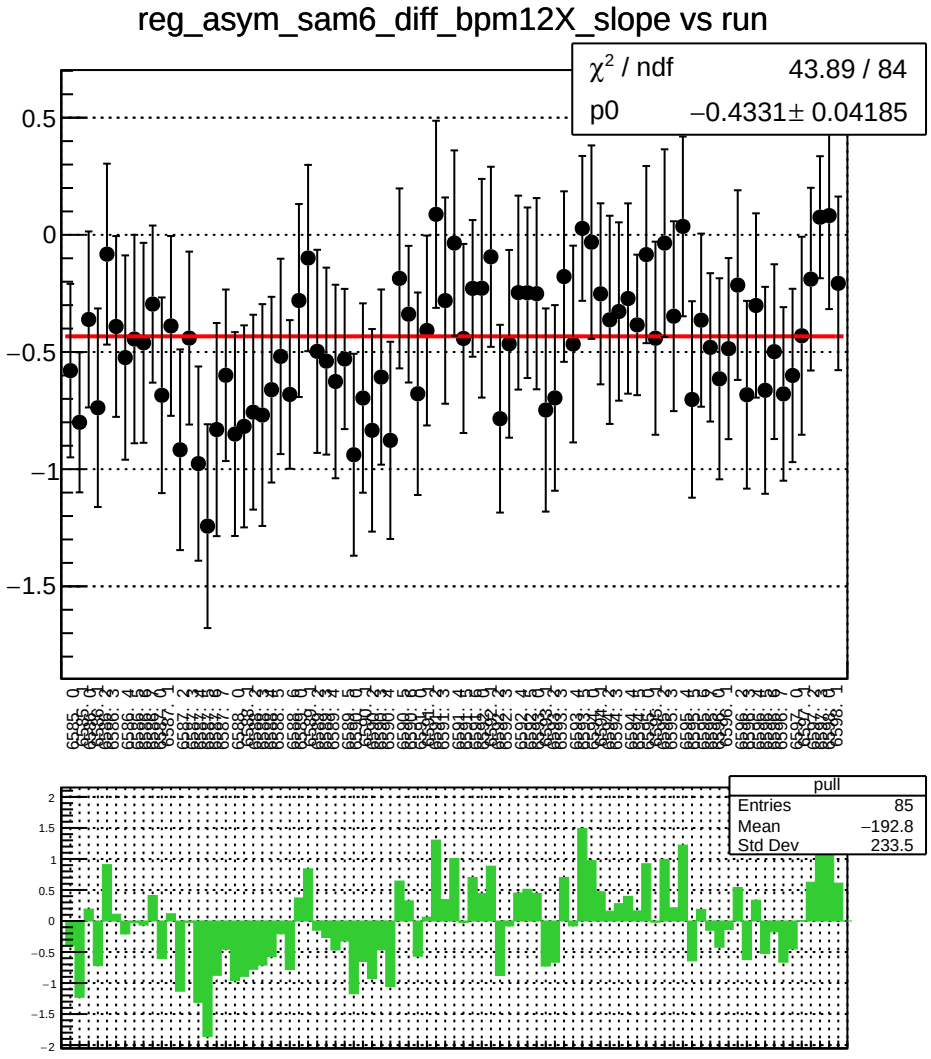

pull1D
Entries 85
Mean −0.002064
Std Dev 0.4576

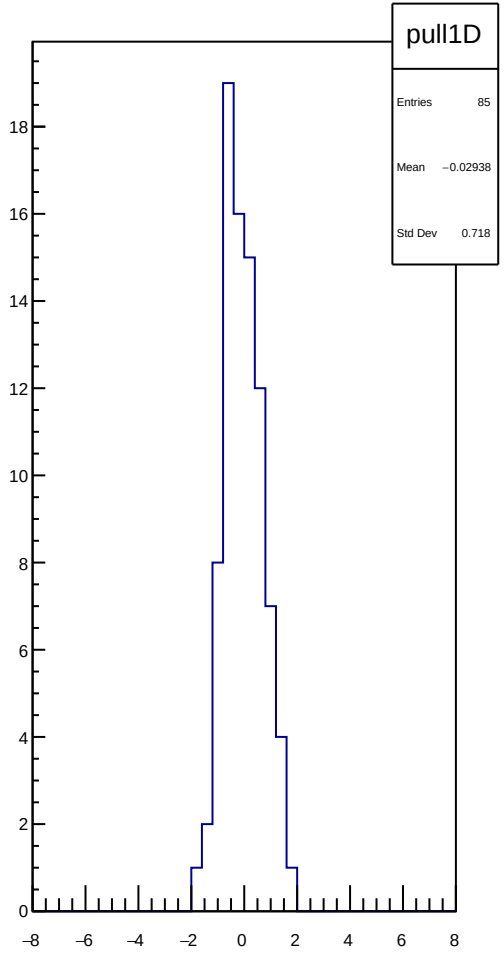

reg_asym_sam6_diff_bpm4eX_slope vs run
χ^2 / ndf 6.159 / 84
p0 39.28 ± 1.037
pull
Entries 85
Mean −45.09
Std Dev 106

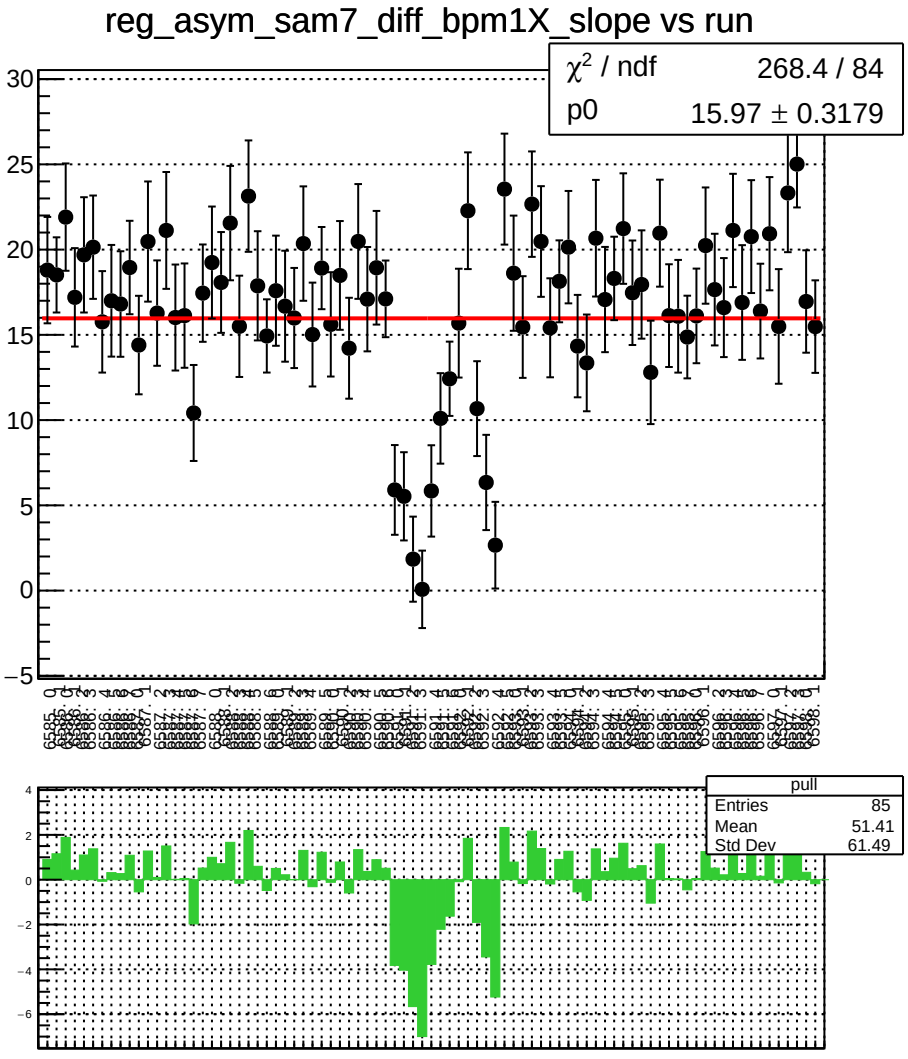

pull1D
Entries 85
Mean −0.003135
Std Dev 0.2692

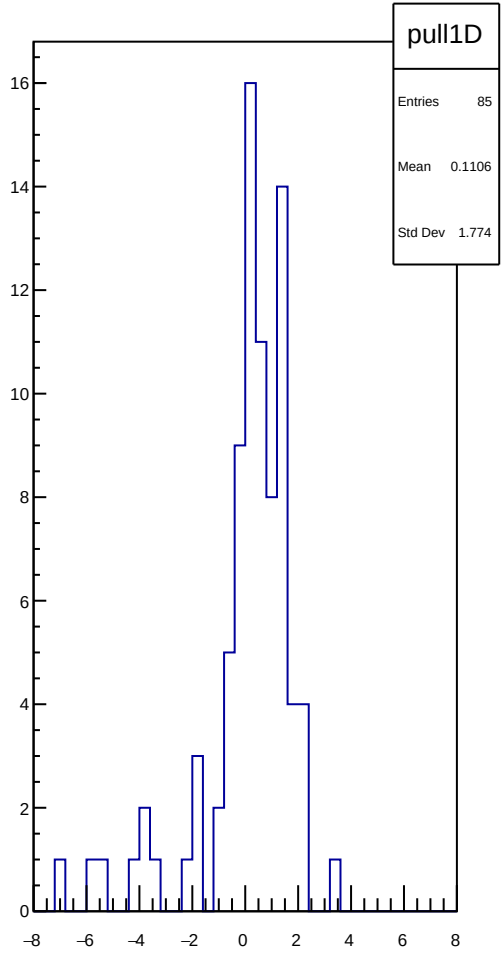

reg_asym_sam6_diff_bpm4eY_slope vs run
χ^2 / ndf 30.14 / 84
p0 61.42 ± 0.8384
pull
Entries 85
Mean 653.4
Std Dev 623.5

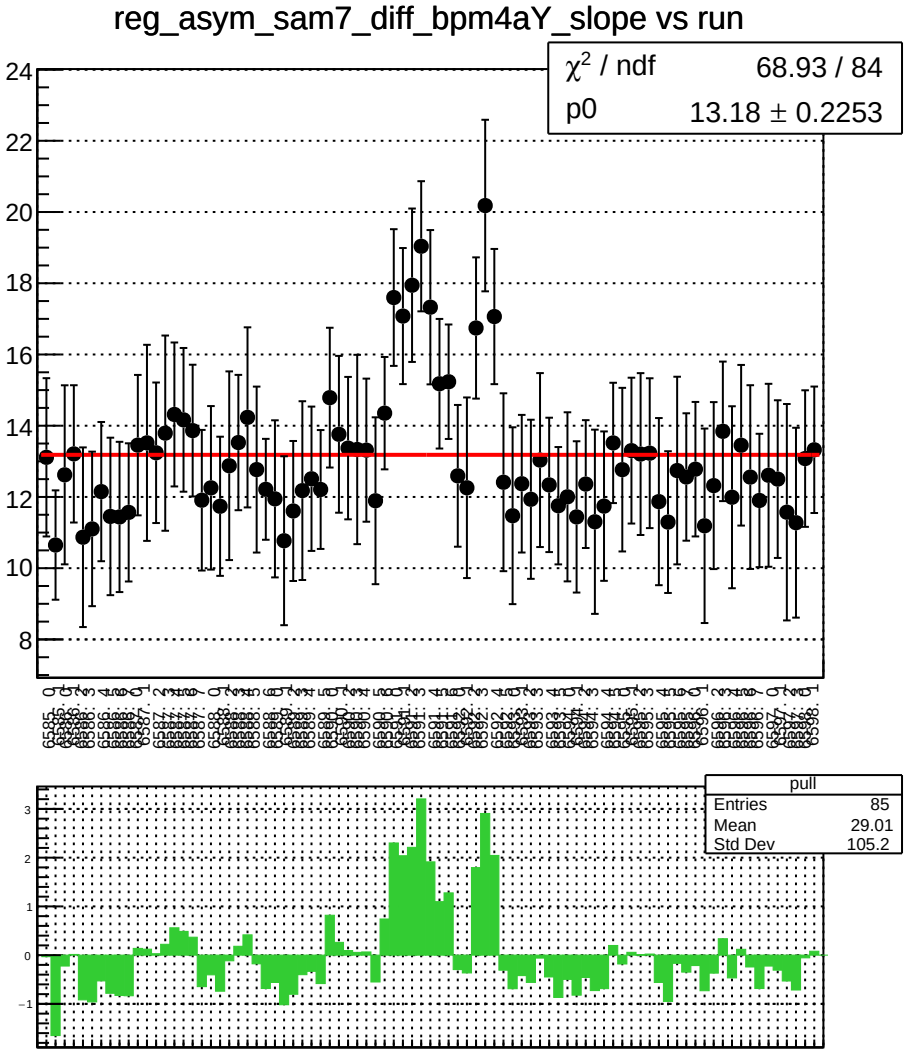

pull1D
Entries 85
Mean −0.004197
Std Dev 0.5954

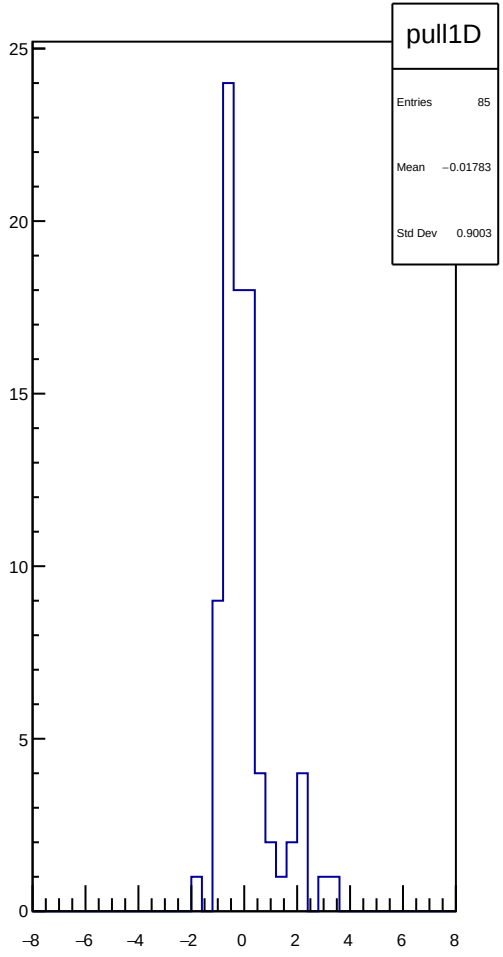

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 43.89 / 84
p0 −0.4331± 0.04185
pull
Entries 85
Mean −192.8
Std Dev 233.5

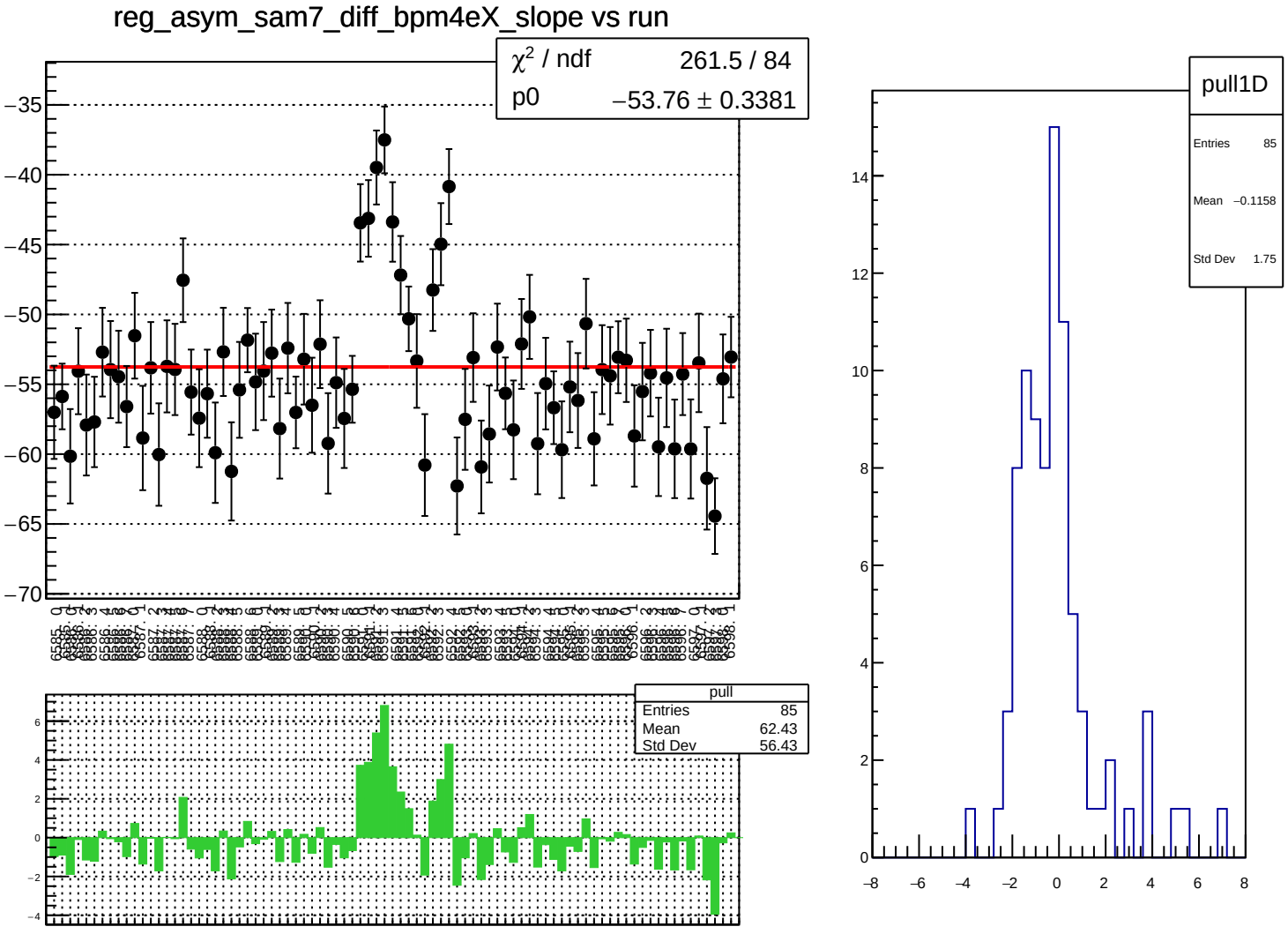

pull1D
Entries 85
Mean −0.02938
Std Dev 0.718

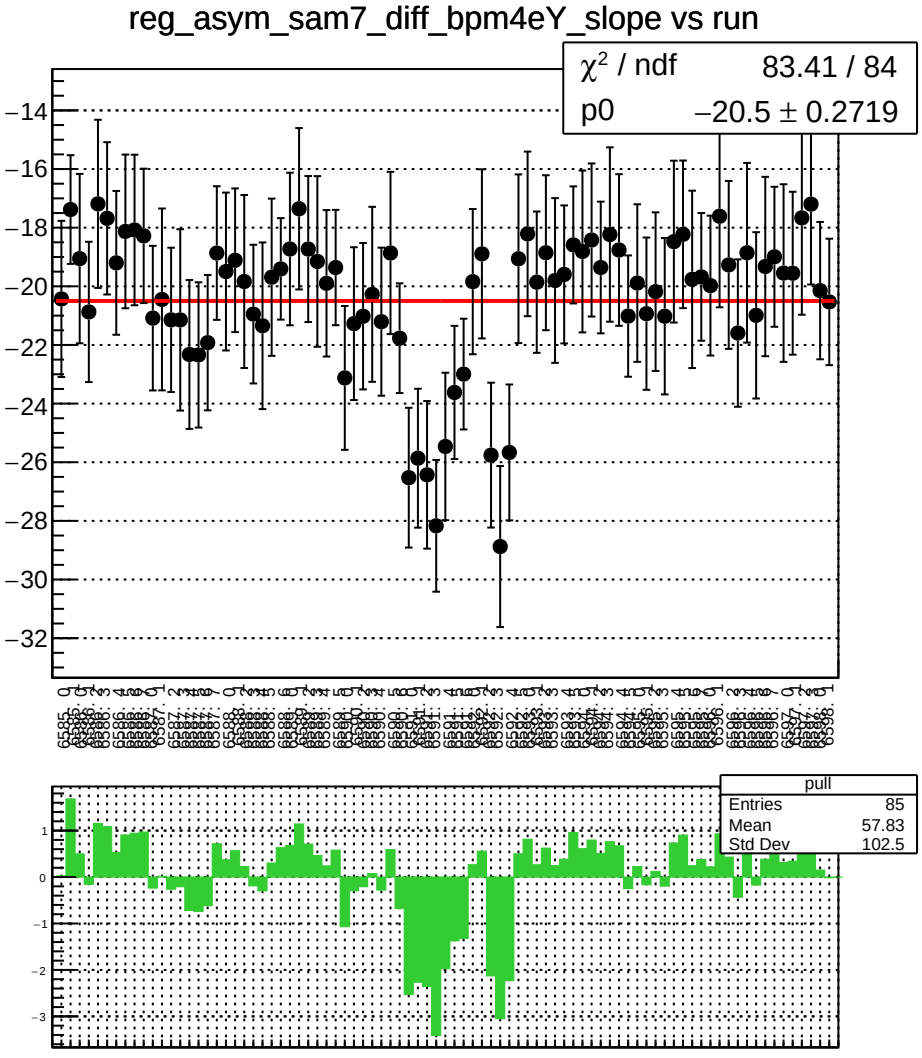

reg_asym_sam7_diff_bpm1X_slope vs run
χ^2 / ndf 268.4 / 84
p0 15.97 ± 0.3179
pull
Entries 85
Mean 51.41
Std Dev 61.49

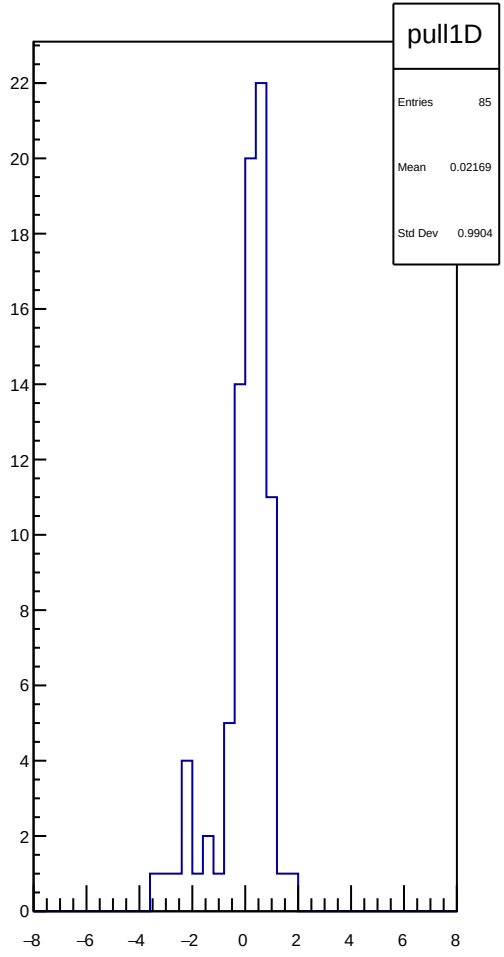

pull1D
Entries 85
Mean 0.1106
Std Dev 1.774

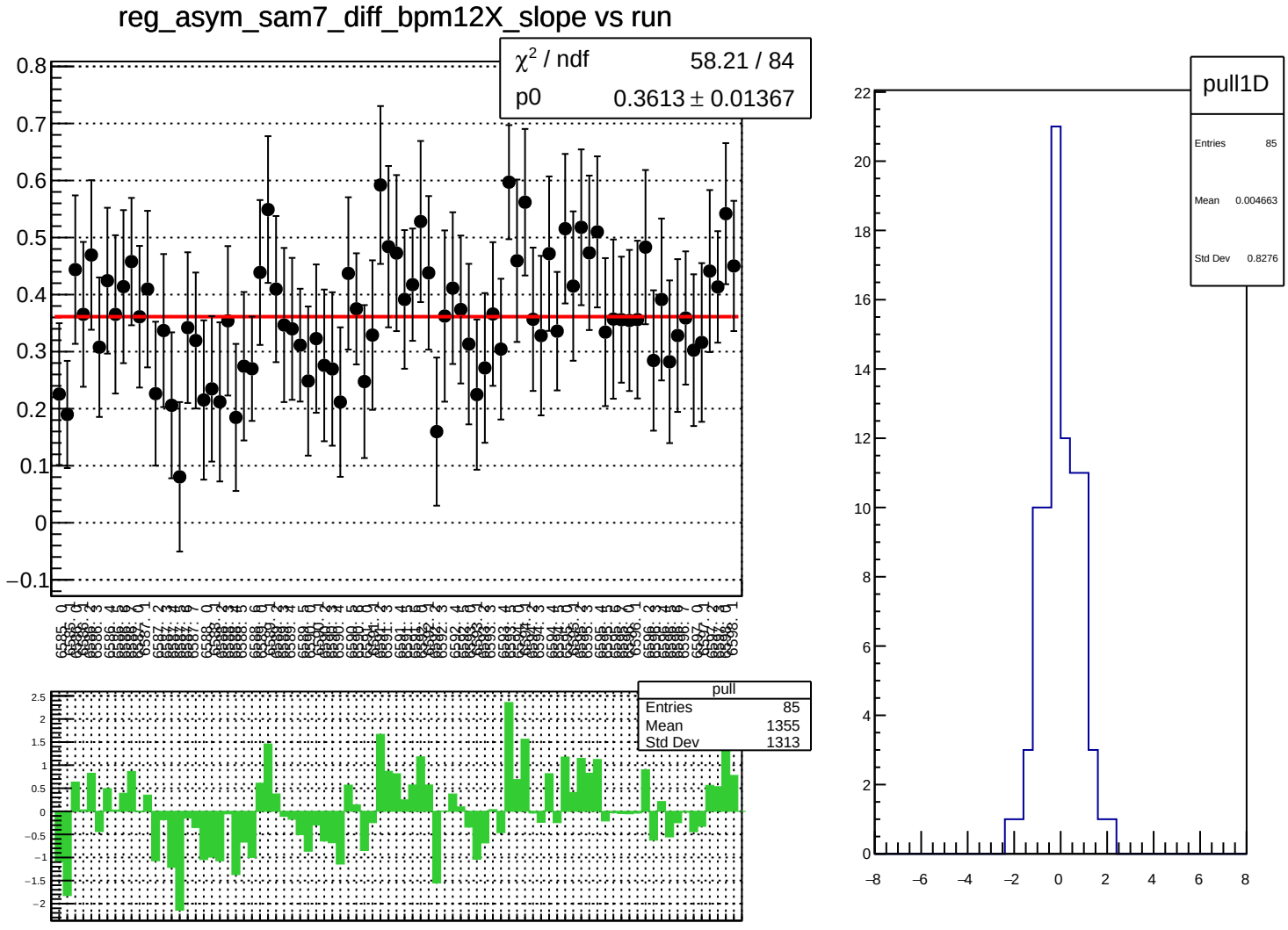

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 68.93 / 84
p0 13.18 ± 0.2253
pull
Entries 85
Mean 29.01
Std Dev 105.2

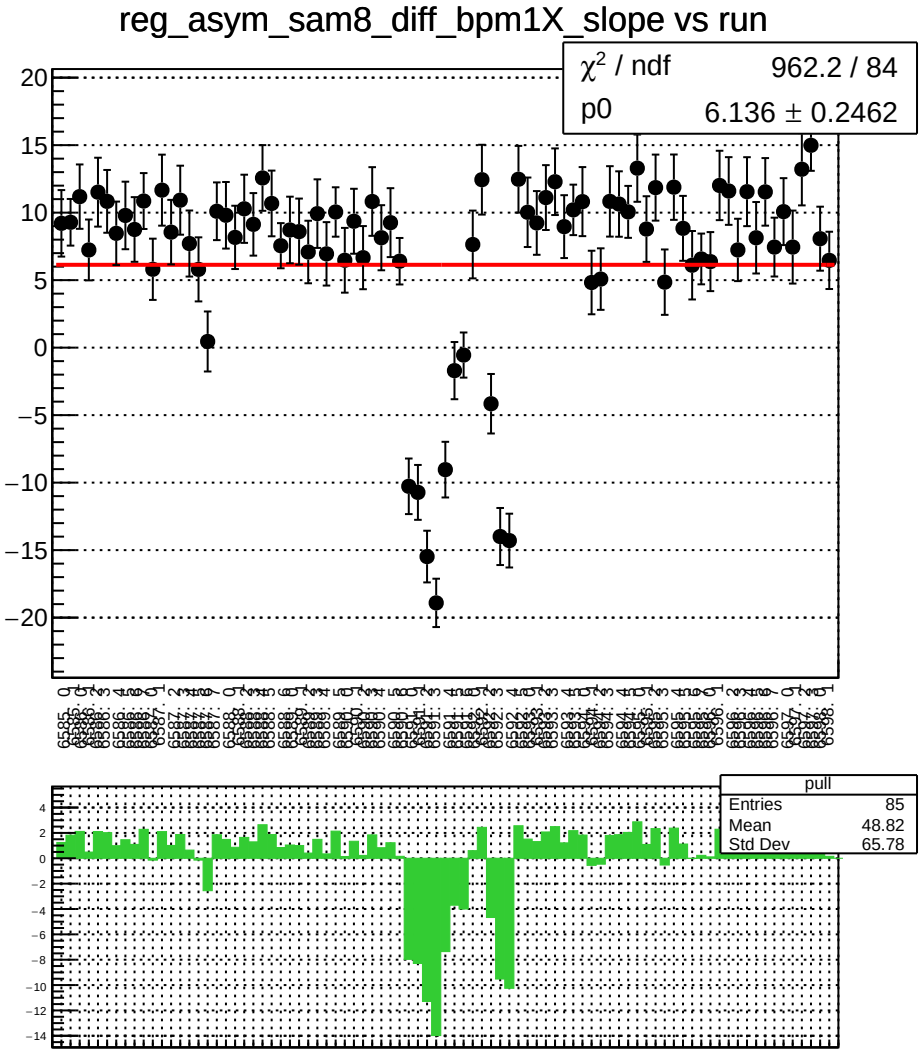

pull1D
Entries 85
Mean −0.01783
Std Dev 0.9003

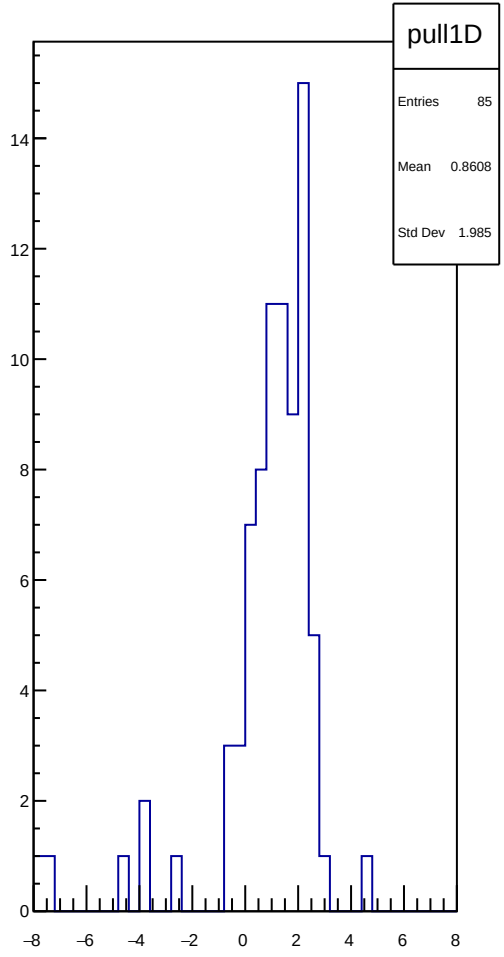

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 261.5 / 84
p0 −53.76 ± 0.3381
pull
Entries 85
Mean 62.43
Std Dev 56.43
pull1D
Entries 85
Mean −0.1158
Std Dev 1.75

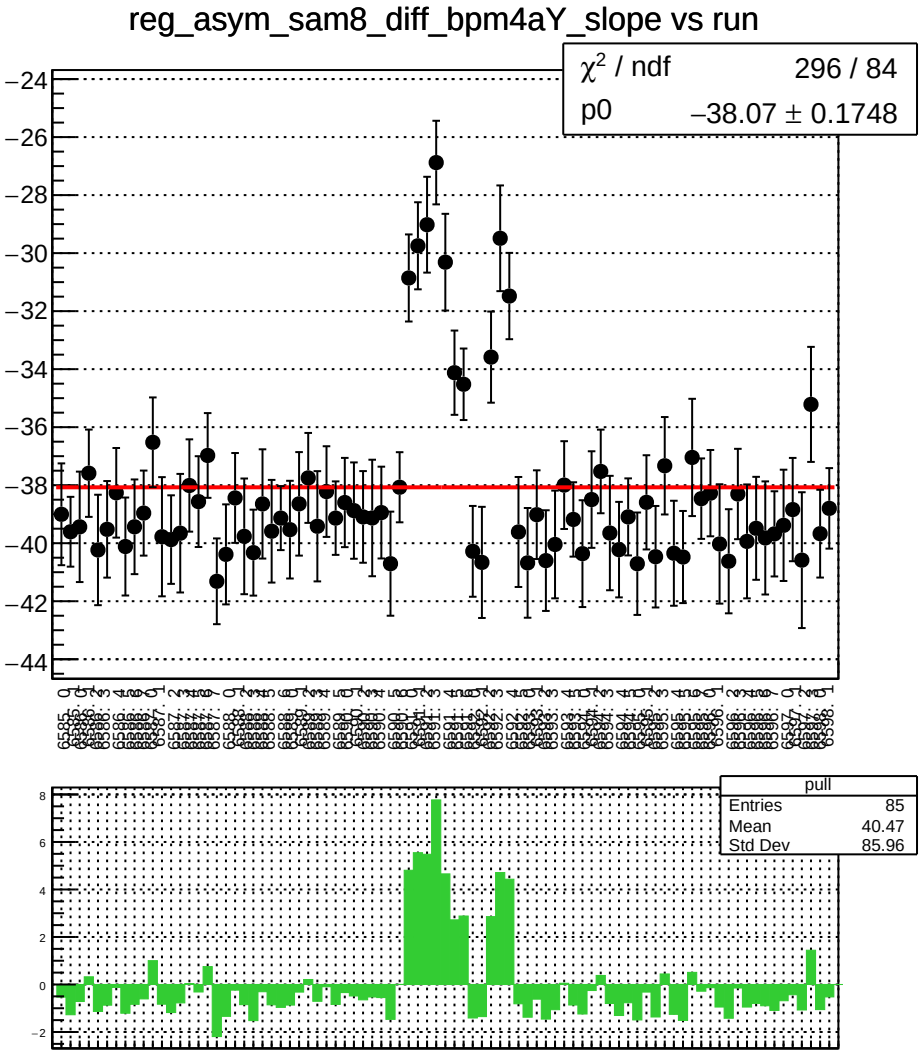

reg_asym_sam7_diff_bpm4eY_slope vs run
χ^2 / ndf 83.41 / 84
p0 −20.5 ± 0.2719
pull
Entries 85
Mean 57.83
Std Dev 102.5

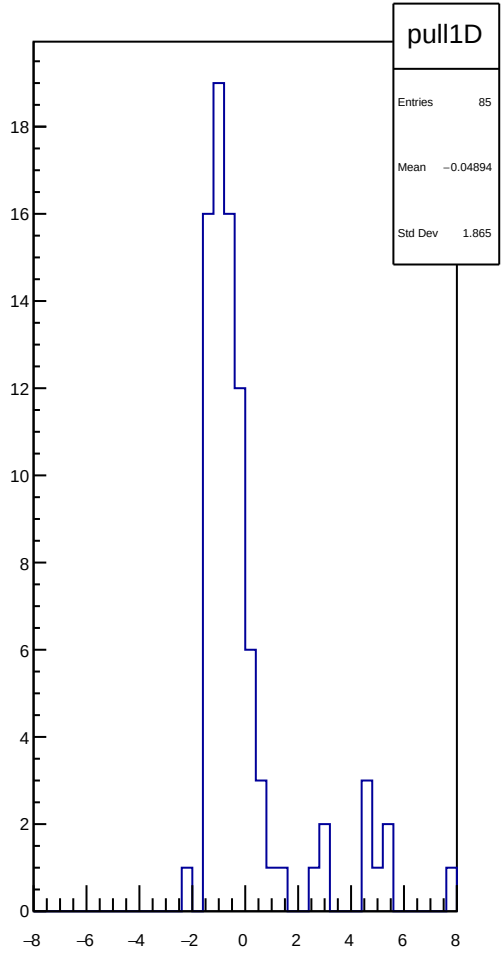

pull1D
Entries 85
Mean 0.02169
Std Dev 0.9904

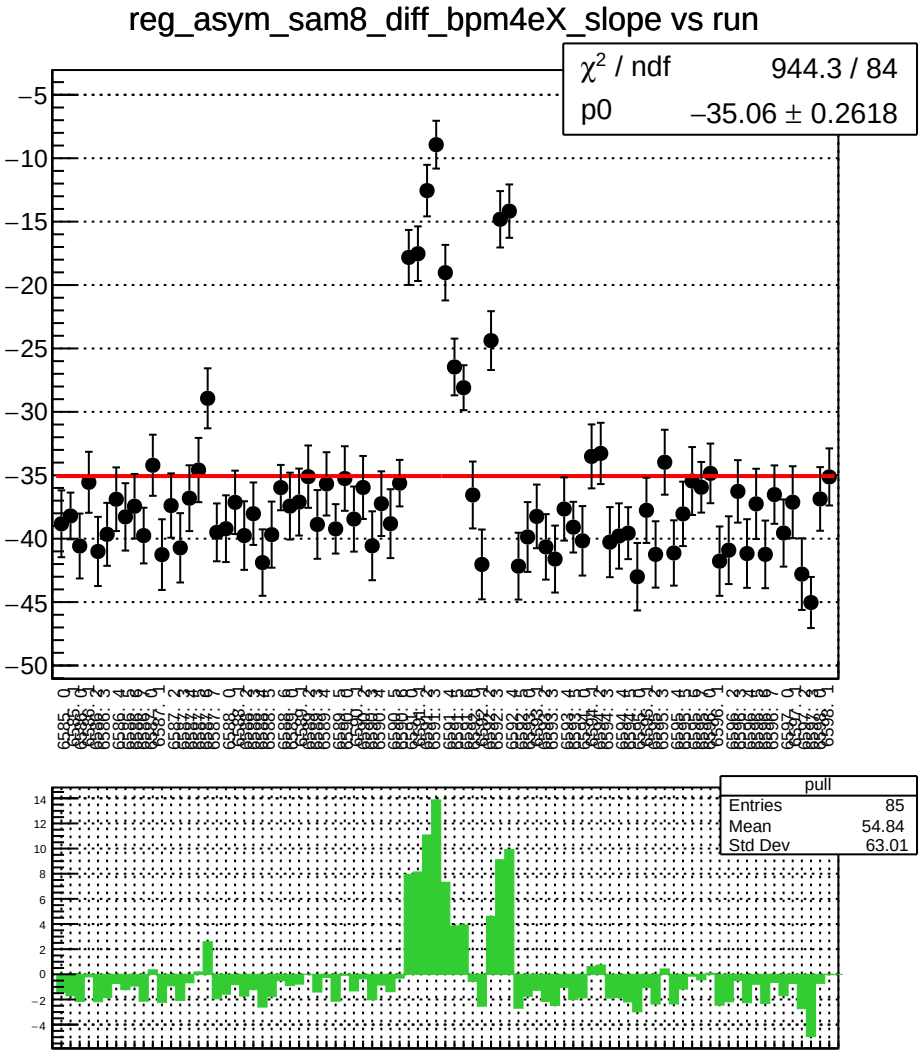

reg_asym_sam7_diff_bpm12X_slope vs run
χ^2 / ndf 58.21 / 84
p0 0.3613 ± 0.01367
pull
Entries 85
Mean 1355
Std Dev 1313
pull1D
Entries 85
Mean 0.004663
Std Dev 0.8276

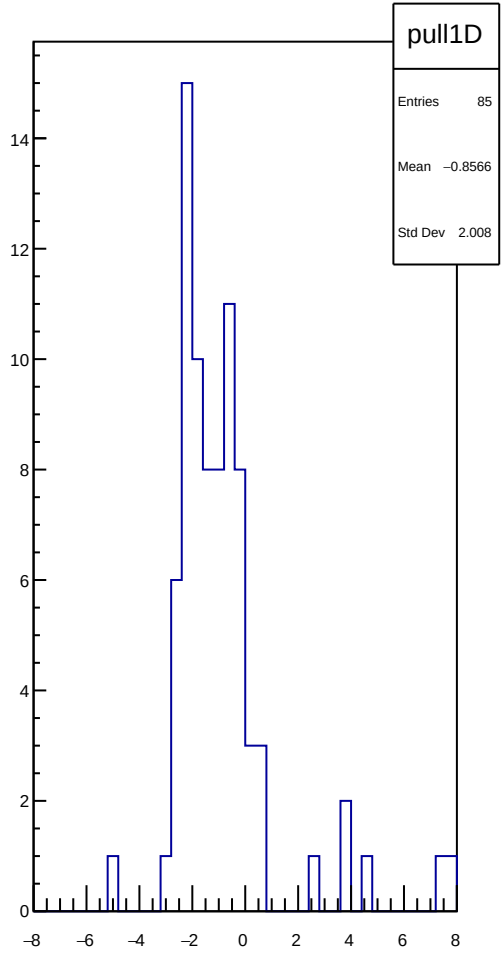

reg_asym_sam8_diff_bpm1X_slope vs run
χ^2 / ndf 962.2 / 84
p0 6.136 ± 0.2462
pull
Entries 85
Mean 48.82
Std Dev 65.78

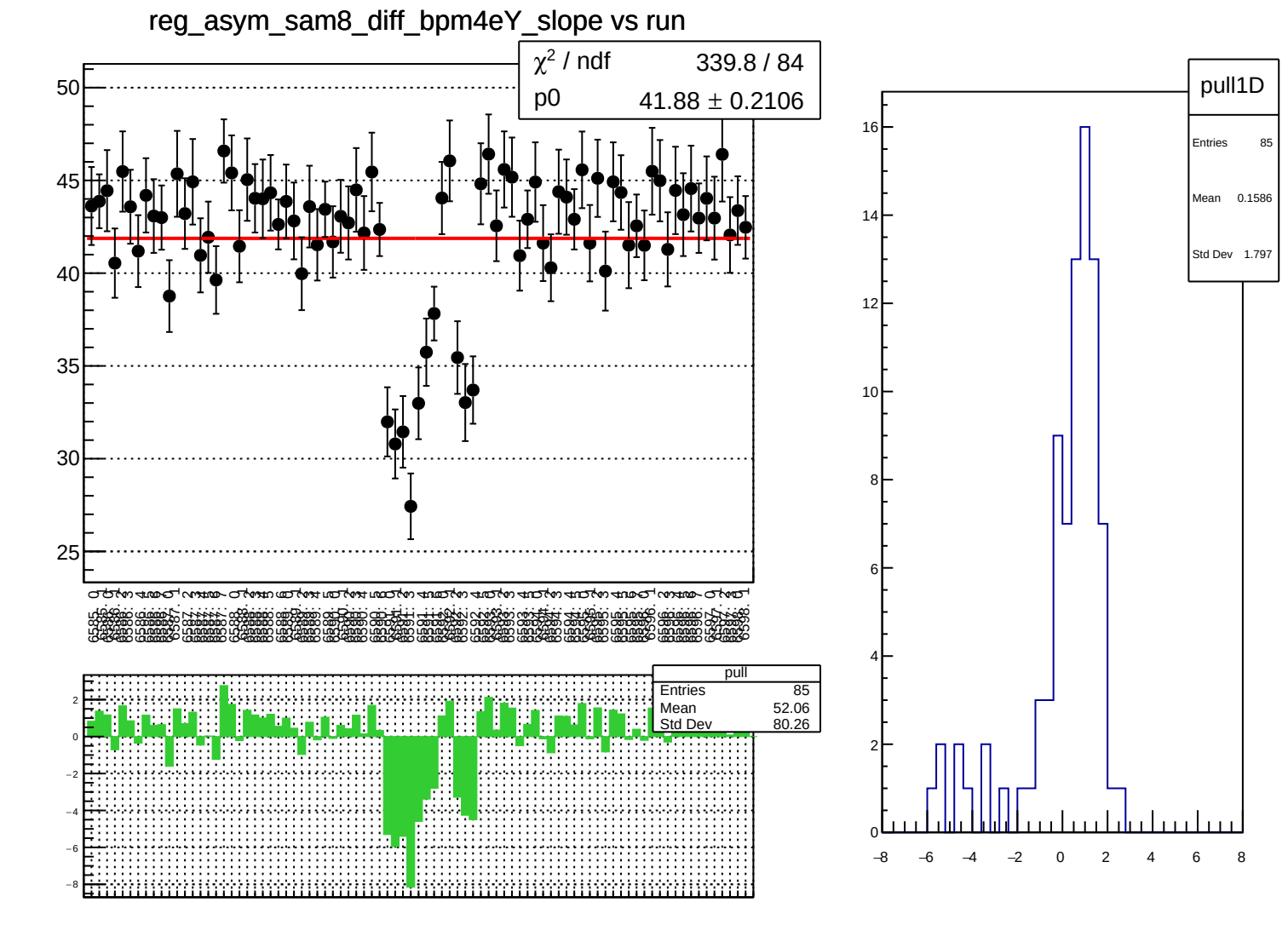

pull1D
Entries 85
Mean 0.8608
Std Dev 1.985

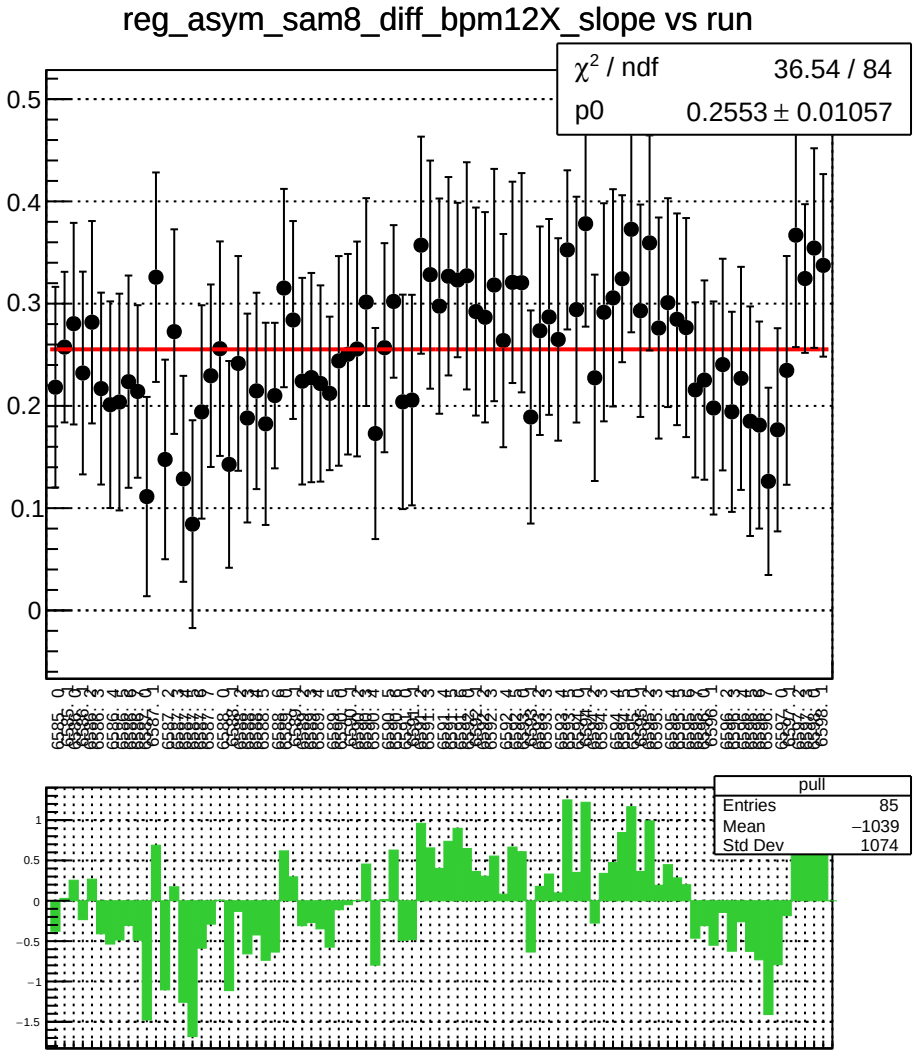

reg_asym_sam8_diff_bpm4aY_slope vs run
χ^2 / ndf 296 / 84
p0 −38.07 ± 0.1748
pull
Entries 85
Mean 40.47
Std Dev 85.96

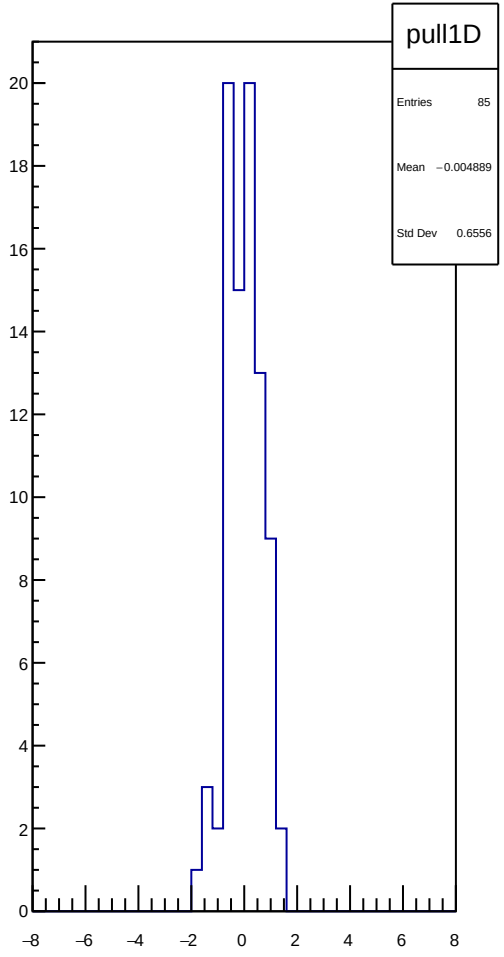

pull1D
Entries 85
Mean −0.04894
Std Dev 1.865

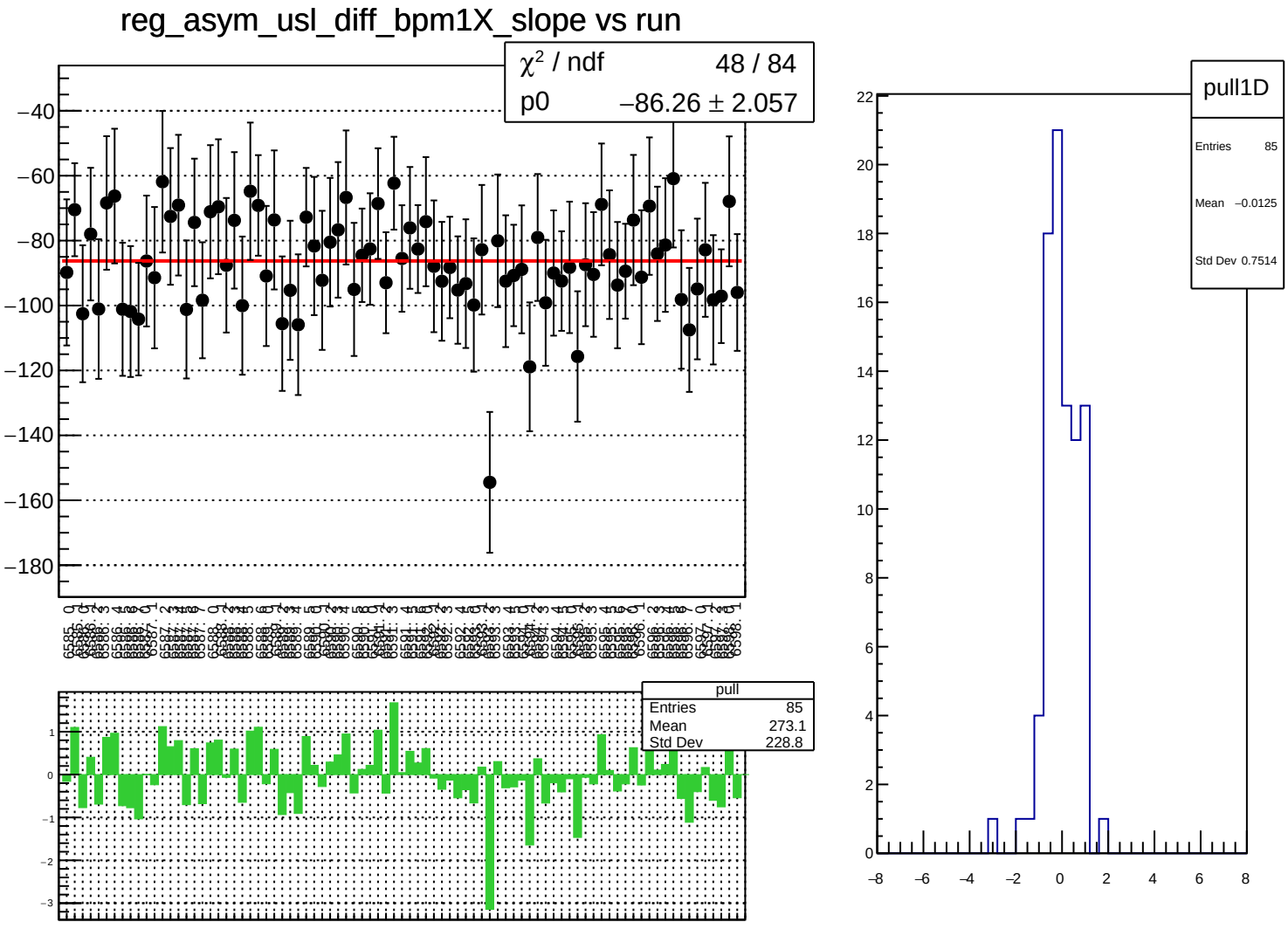

reg_asym_sam8_diff_bpm4eX_slope vs run
χ^2 / ndf 944.3 / 84
p0 −35.06 ± 0.2618
pull
Entries 85
Mean 54.84
Std Dev 63.01

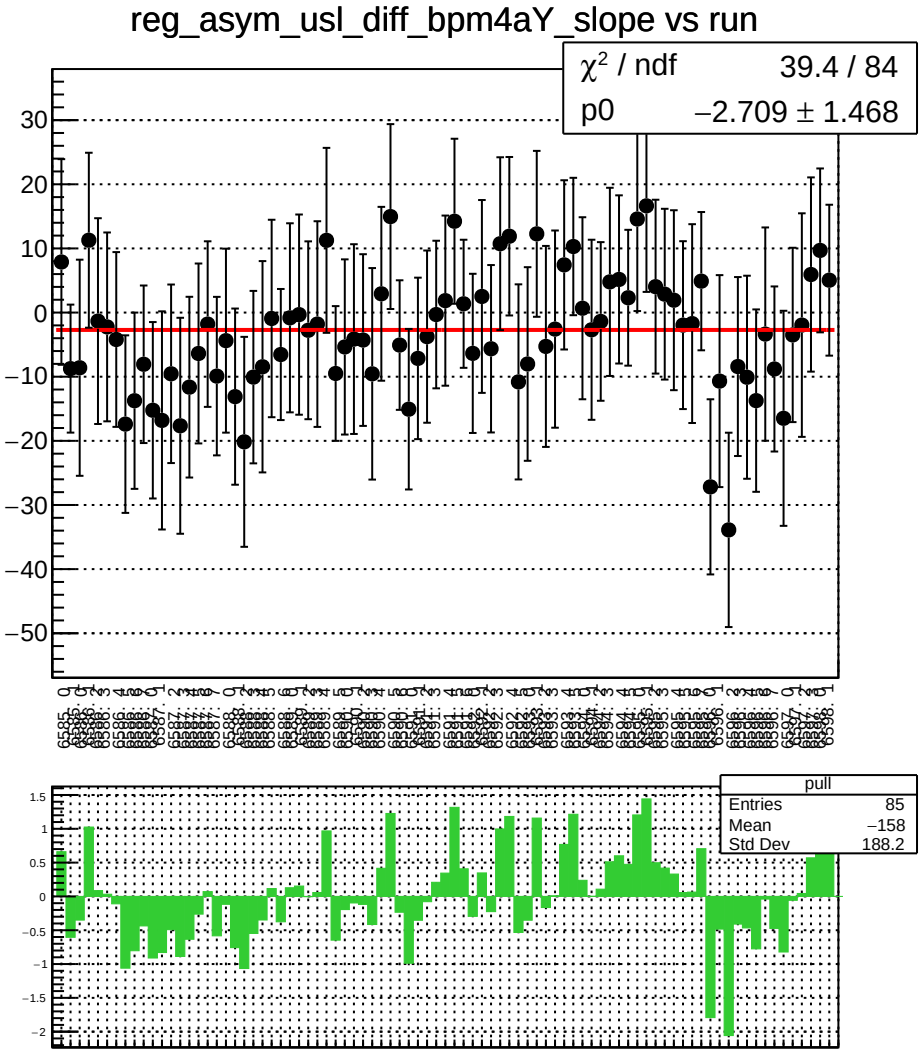

pull1D
Entries 85
Mean −0.8566
Std Dev 2.008

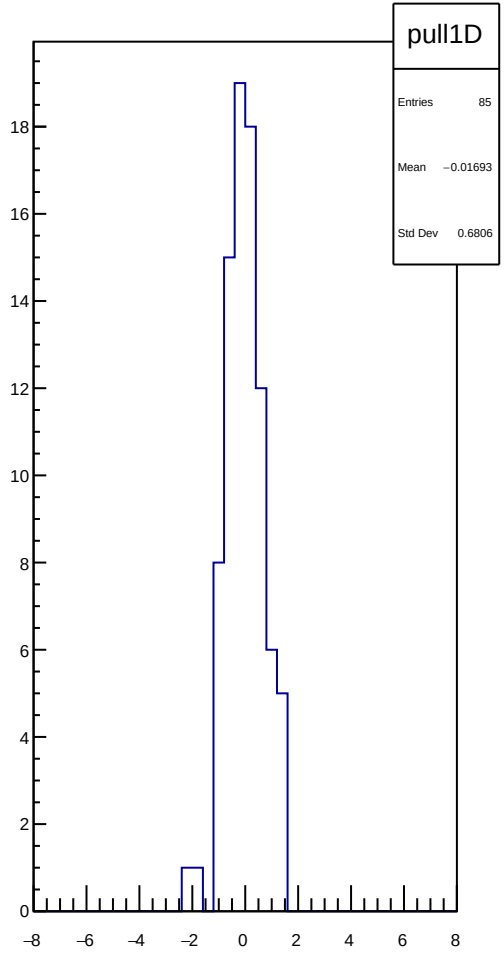

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 339.8 / 84
p0 41.88 ± 0.2106
pull
Entries 85
Mean 52.06
Std Dev 80.26
pull1D
Entries 85
Mean 0.1586
Std Dev 1.797

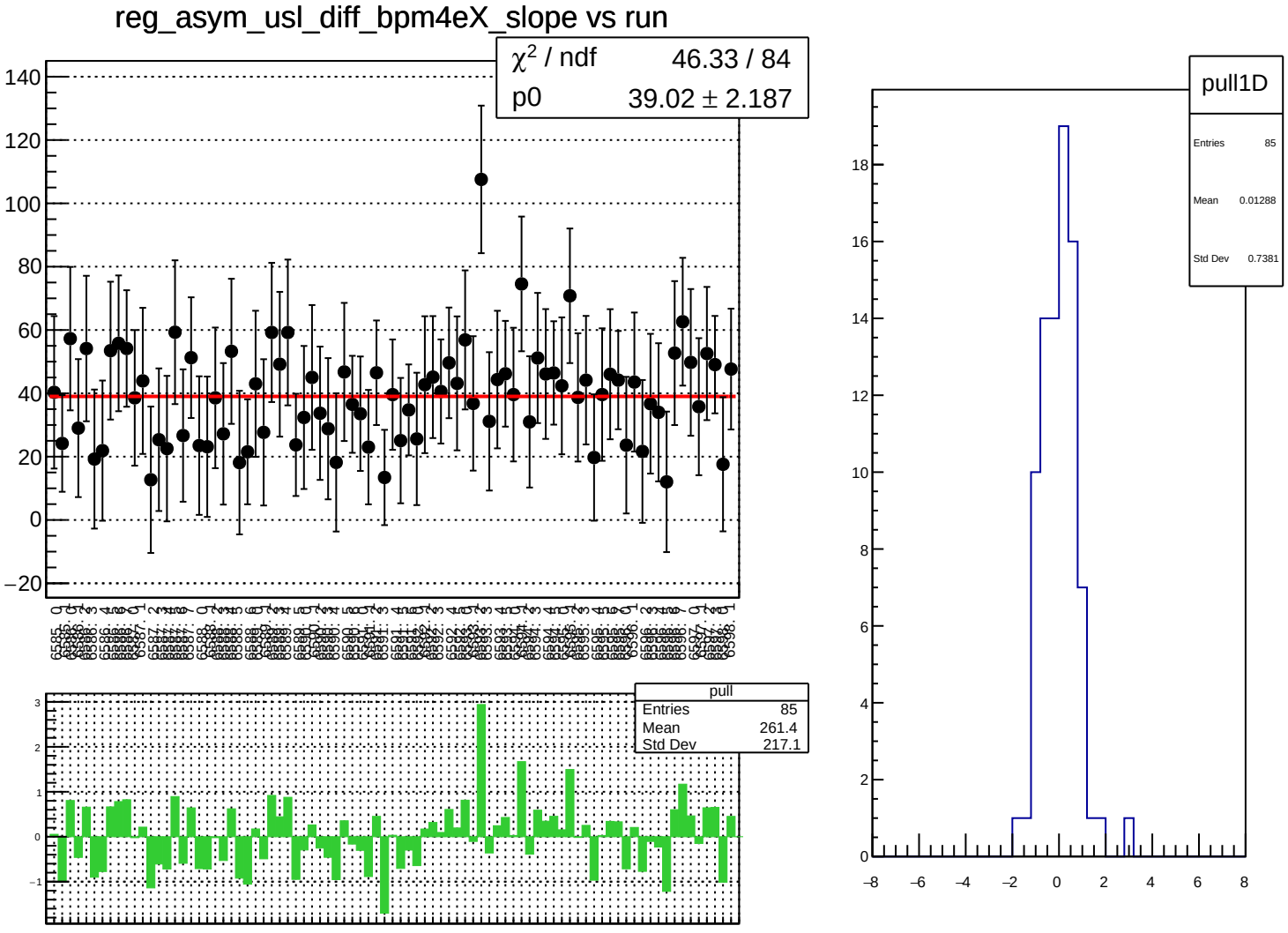

reg_asym_sam8_diff_bpm12X_slope vs run
χ^2 / ndf 36.54 / 84
p0 0.2553 ± 0.01057
pull
Entries 85
Mean −1039
Std Dev 1074

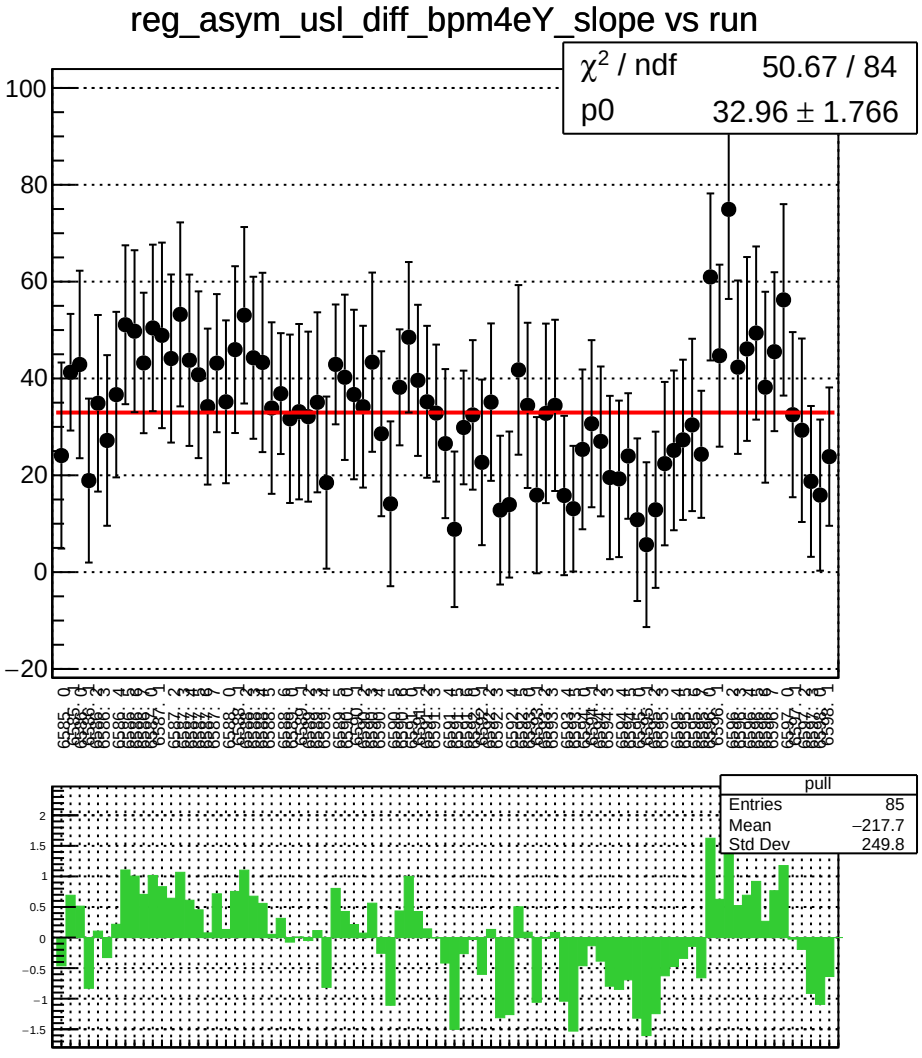

pull1D
Entries 85
Mean −0.004889
Std Dev 0.6556

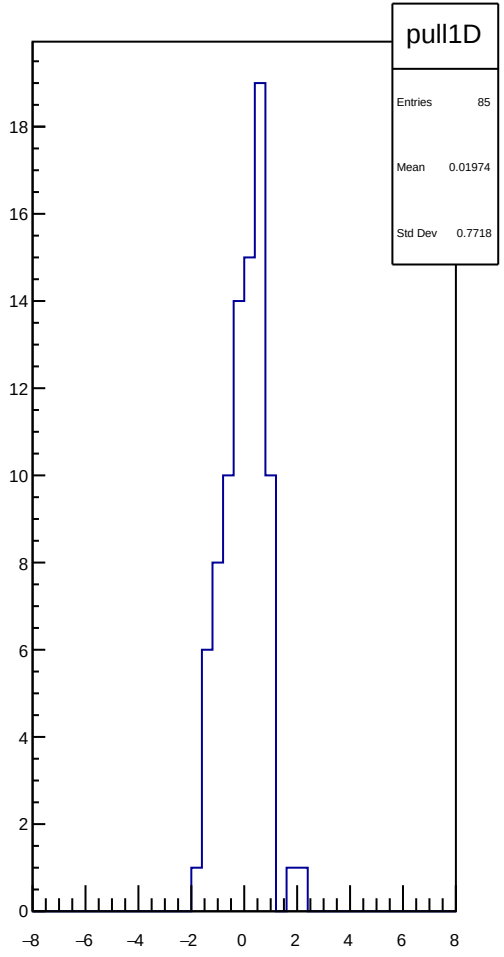

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 48 / 84
p0 −86.26 ± 2.057
pull
Entries 85
Mean 273.1
Std Dev 228.8
pull1D
Entries 85
Mean −0.0125
Std Dev 0.7514

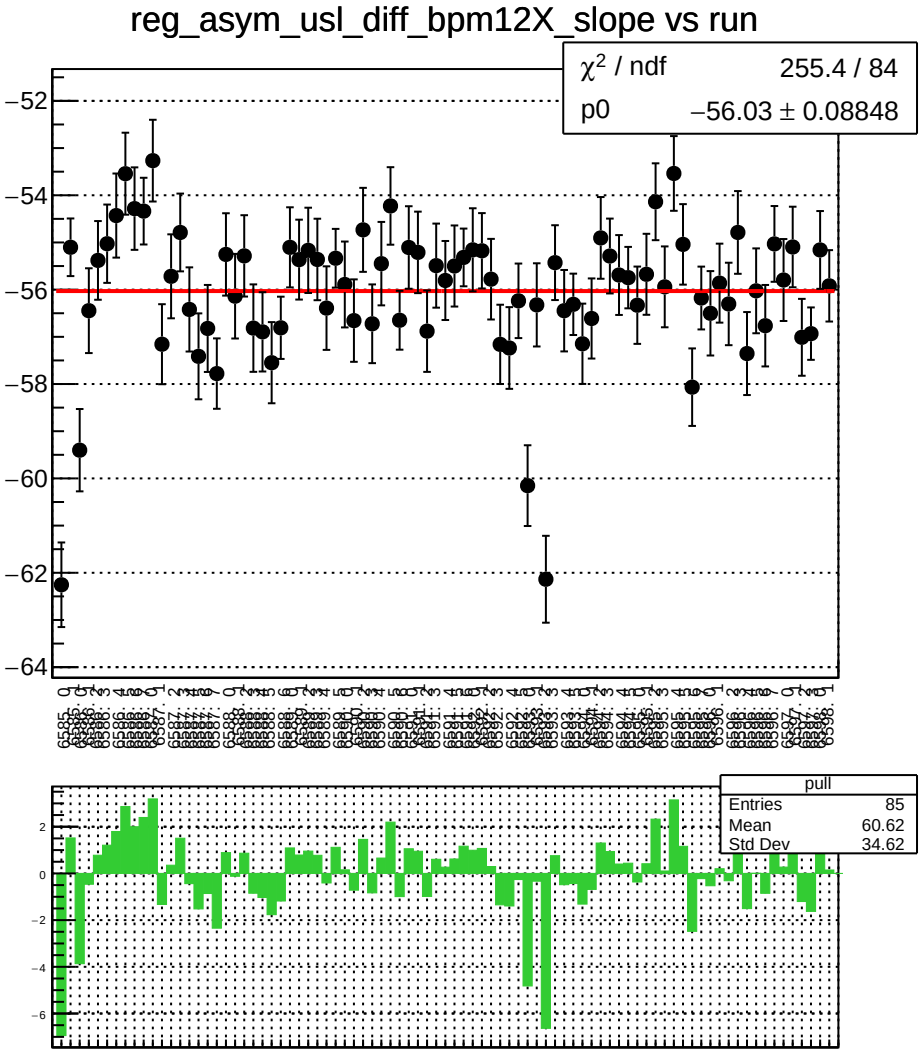

reg_asym_usl_diff_bpm4aY_slope vs run
χ^2 / ndf 39.4 / 84
p0 −2.709 ± 1.468
pull
Entries 85
Mean −158
Std Dev 188.2

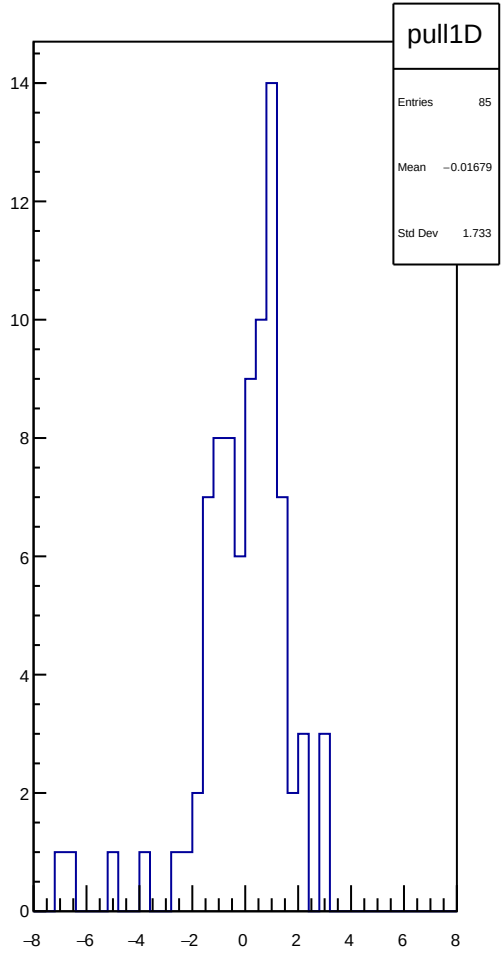

pull1D
Entries 85
Mean −0.01693
Std Dev 0.6806

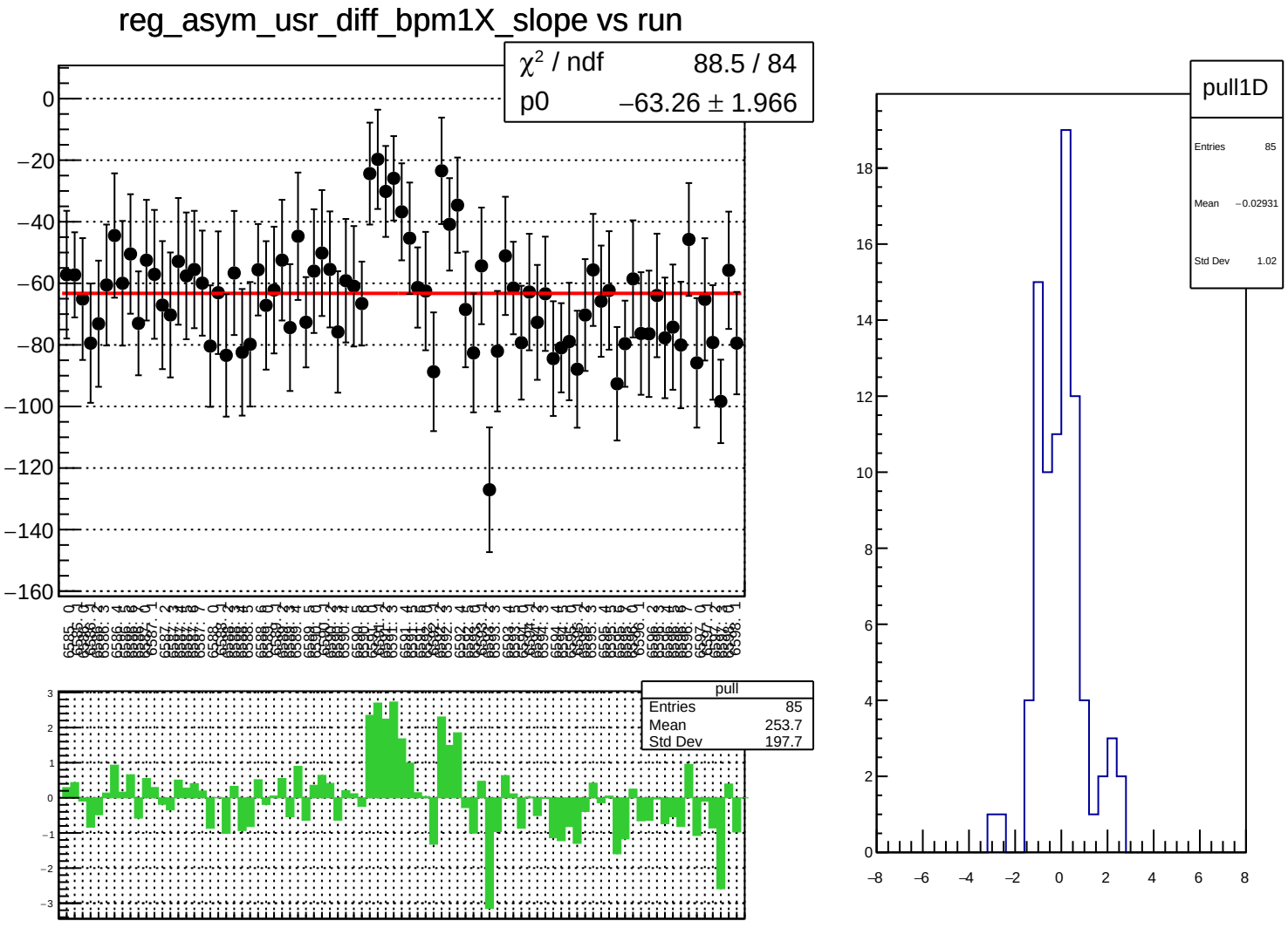

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 46.33 / 84
p0 39.02 ± 2.187
pull
Entries 85
Mean 261.4
Std Dev 217.1
pull1D
Entries 85
Mean 0.01288
Std Dev 0.7381

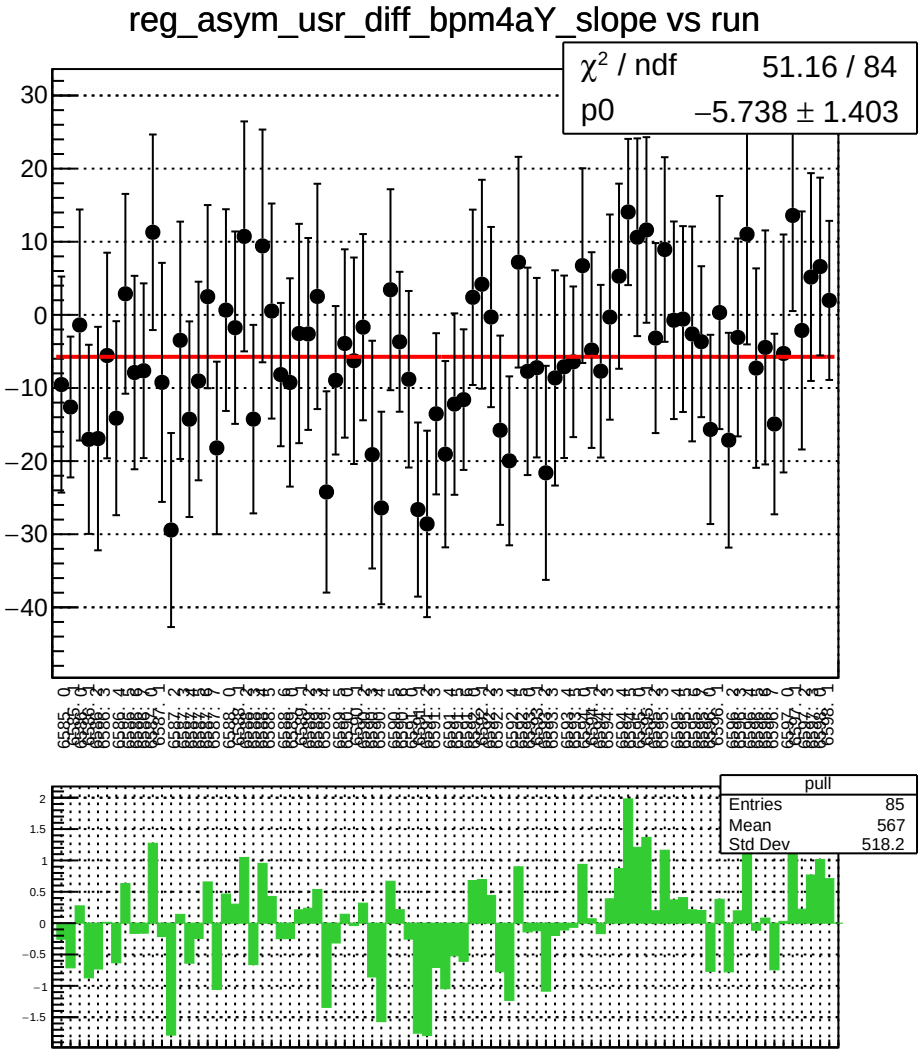

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 50.67 / 84
p0 32.96 ± 1.766
pull
Entries 85
Mean −217.7
Std Dev 249.8

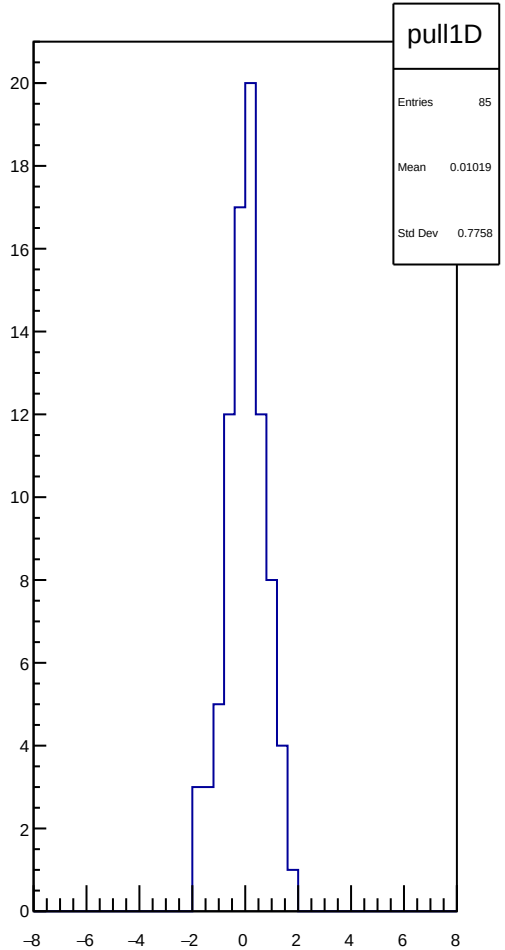

pull1D
Entries 85
Mean 0.01974
Std Dev 0.7718

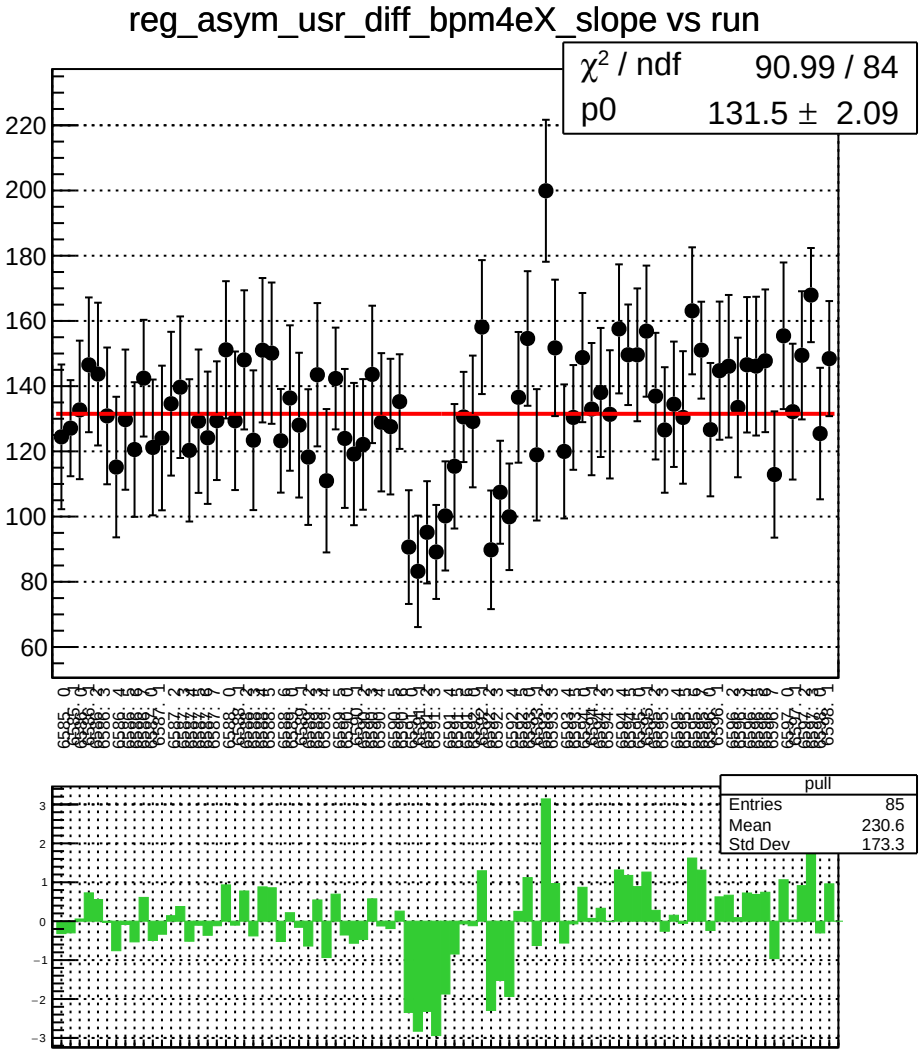

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 255.4 / 84
p0 −56.03 ± 0.08848
pull
Entries 85
Mean 60.62
Std Dev 34.62

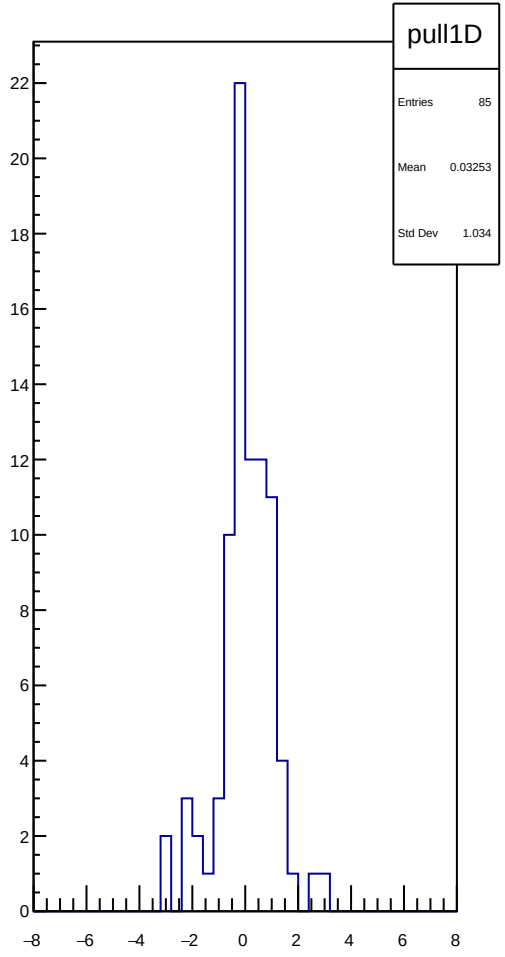

pull1D
Entries 85
Mean −0.01679
Std Dev 1.733

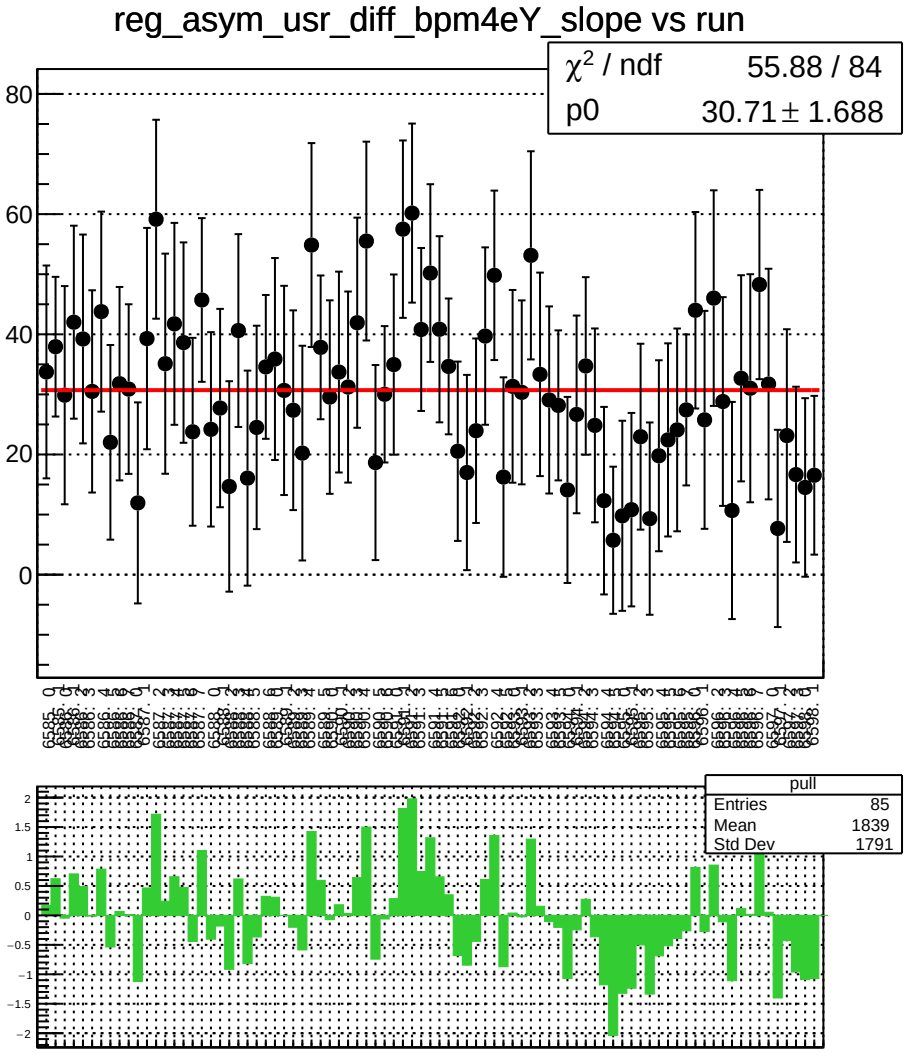

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 88.5 / 84
p0 −63.26 ± 1.966
pull
Entries 85
Mean 253.7
Std Dev 197.7
pull1D
Entries 85
Mean −0.02931
Std Dev 1.02

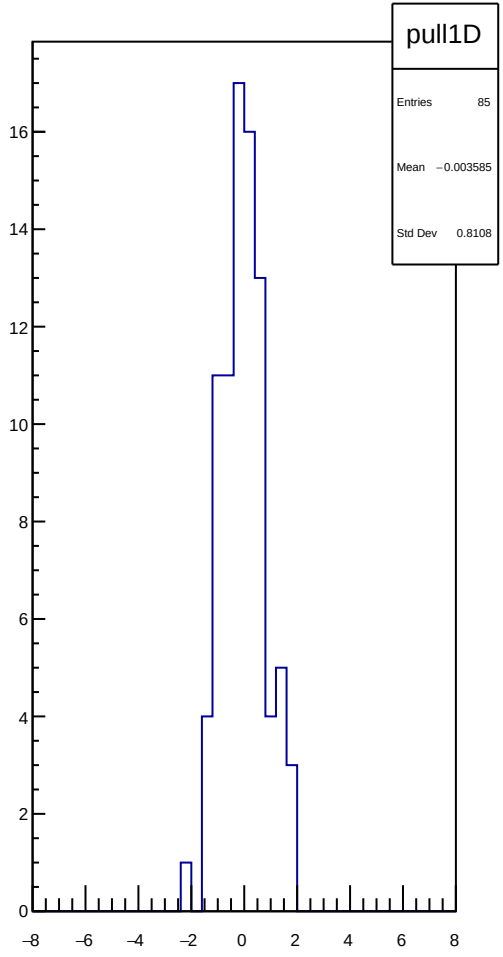

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 51.16 / 84
p0 −5.738 ± 1.403
pull
Entries 85
Mean 567
Std Dev 518.2

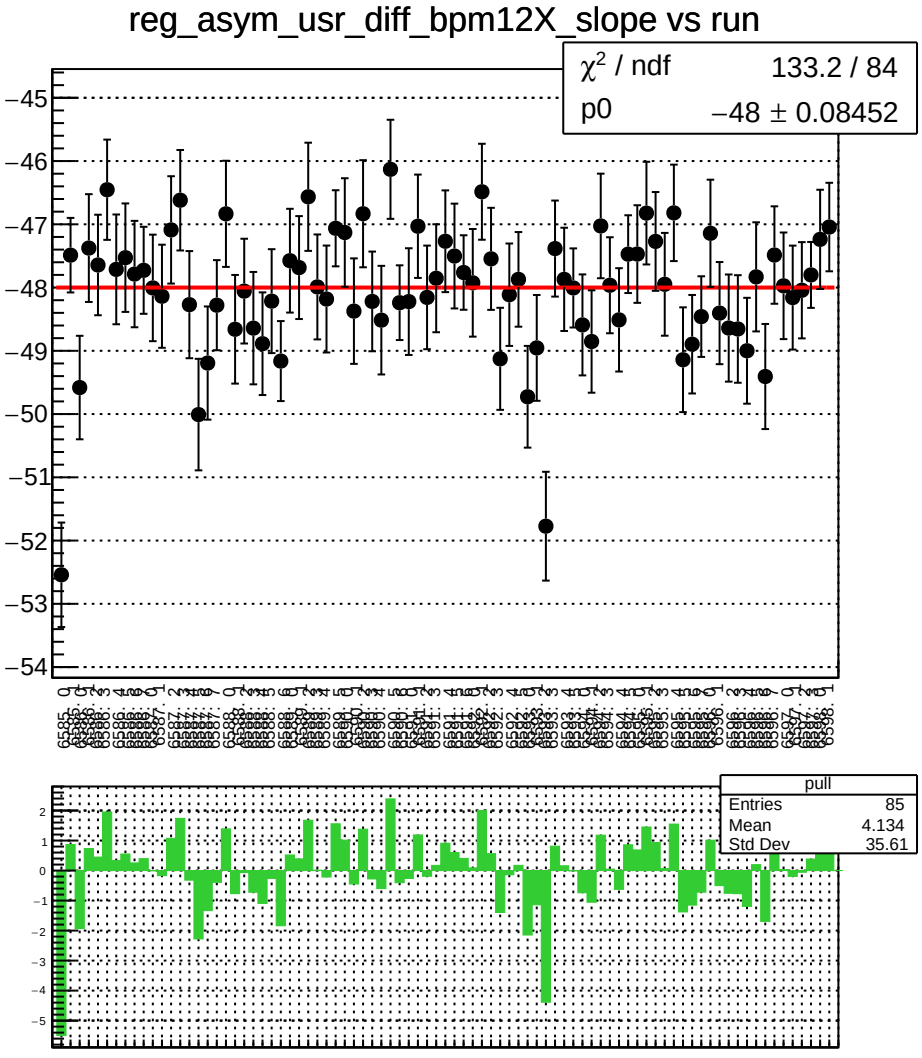

pull1D
Entries 85
Mean 0.01019
Std Dev 0.7758

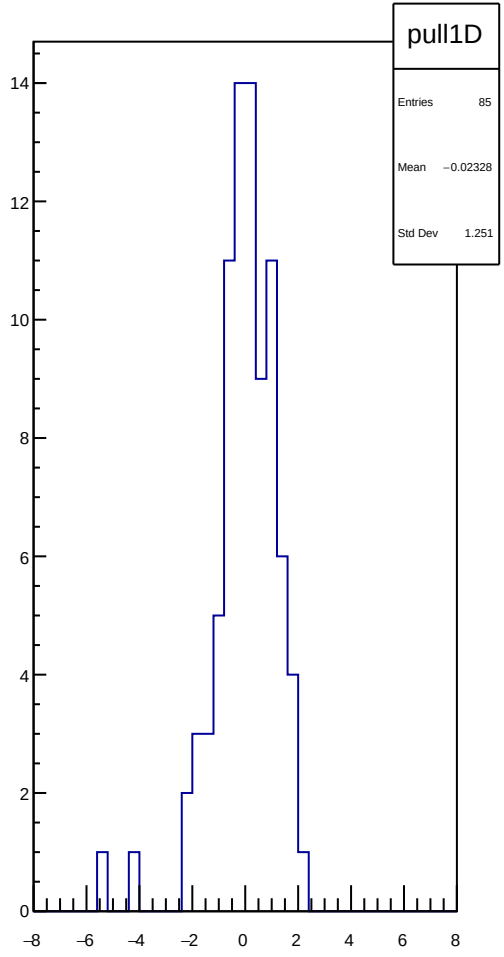

reg_asym_usr_diff_bpm4eX_slope vs run
χ^2 / ndf 90.99 / 84
p0 131.5 ± 2.09
pull
Entries 85
Mean 230.6
Std Dev 173.3


pull1D
Entries 85
Mean 0.03253
Std Dev 1.034

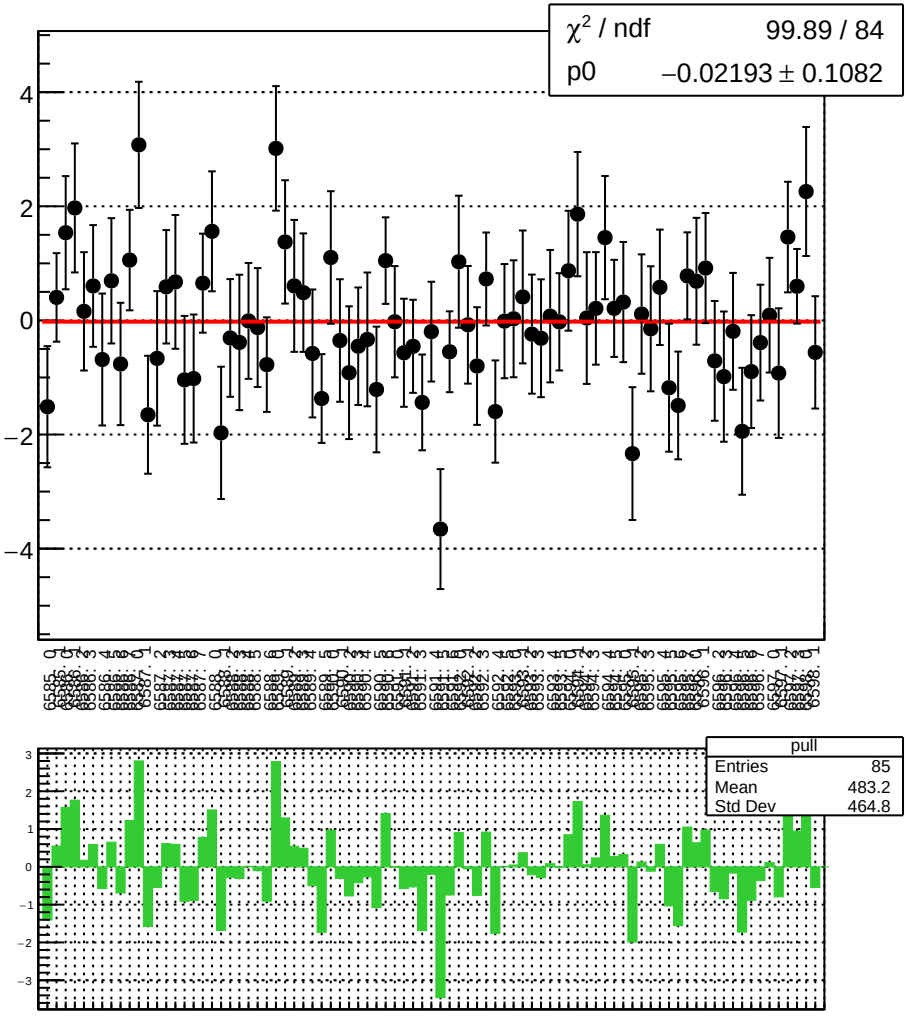

reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 55.88 / 84
p0 30.71 ± 1.688
pull
Entries 85
Mean 1839
Std Dev 1791

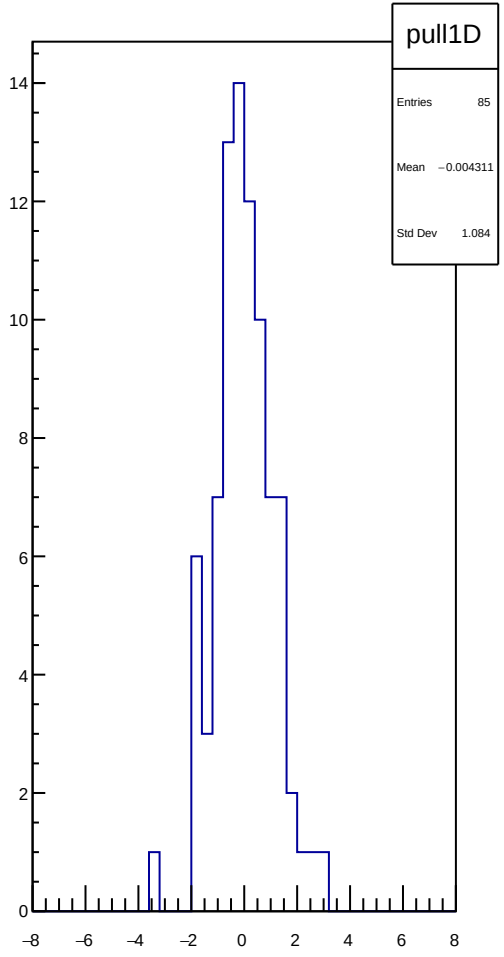

pull1D
Entries 85
Mean −0.003585
Std Dev 0.8108

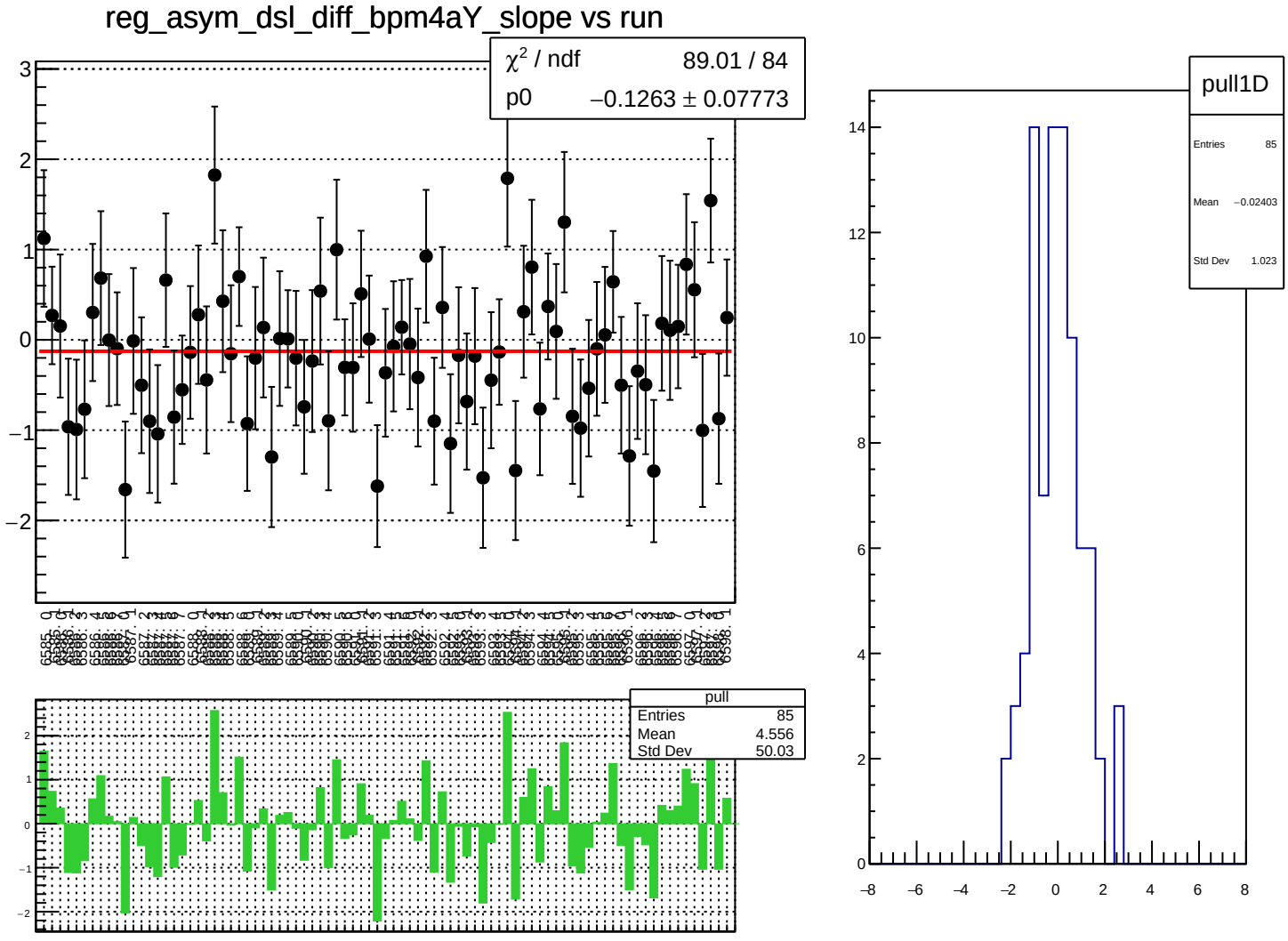

reg_asym_usr_diff_bpm12X_slope vs run
χ^2 / ndf 133.2 / 84
p0 −48 ± 0.08452
pull
Entries 85
Mean 4.134
Std Dev 35.61

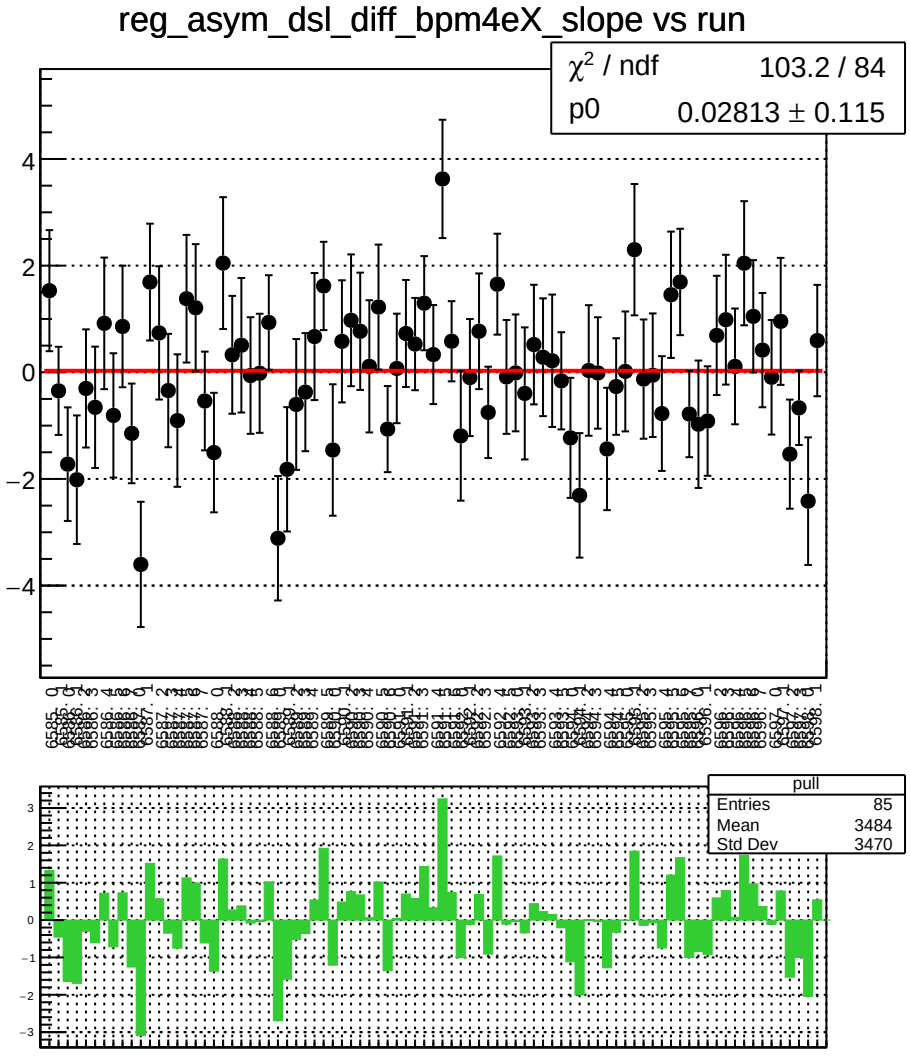

pull1D
Entries 85
Mean −0.02328
Std Dev 1.251

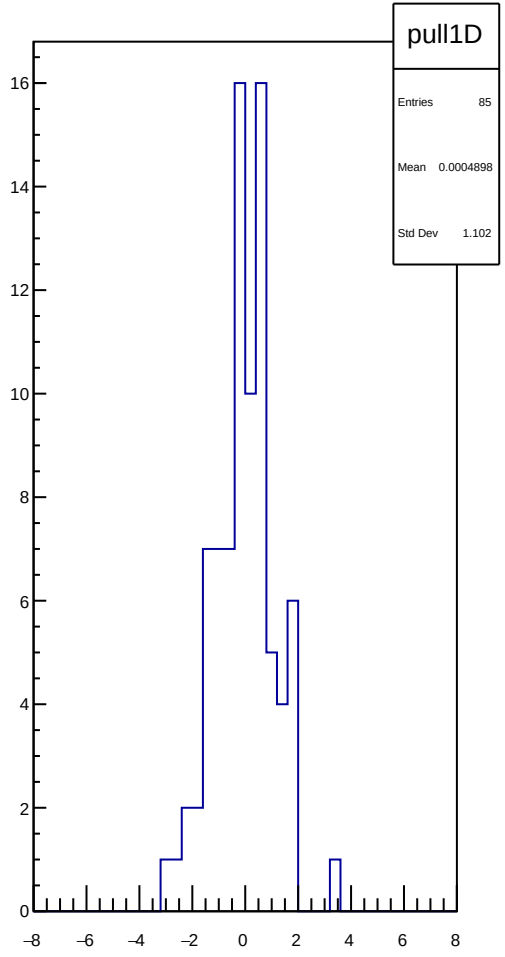
reg_asym_dsl_diff_bpm1X_slope vs run

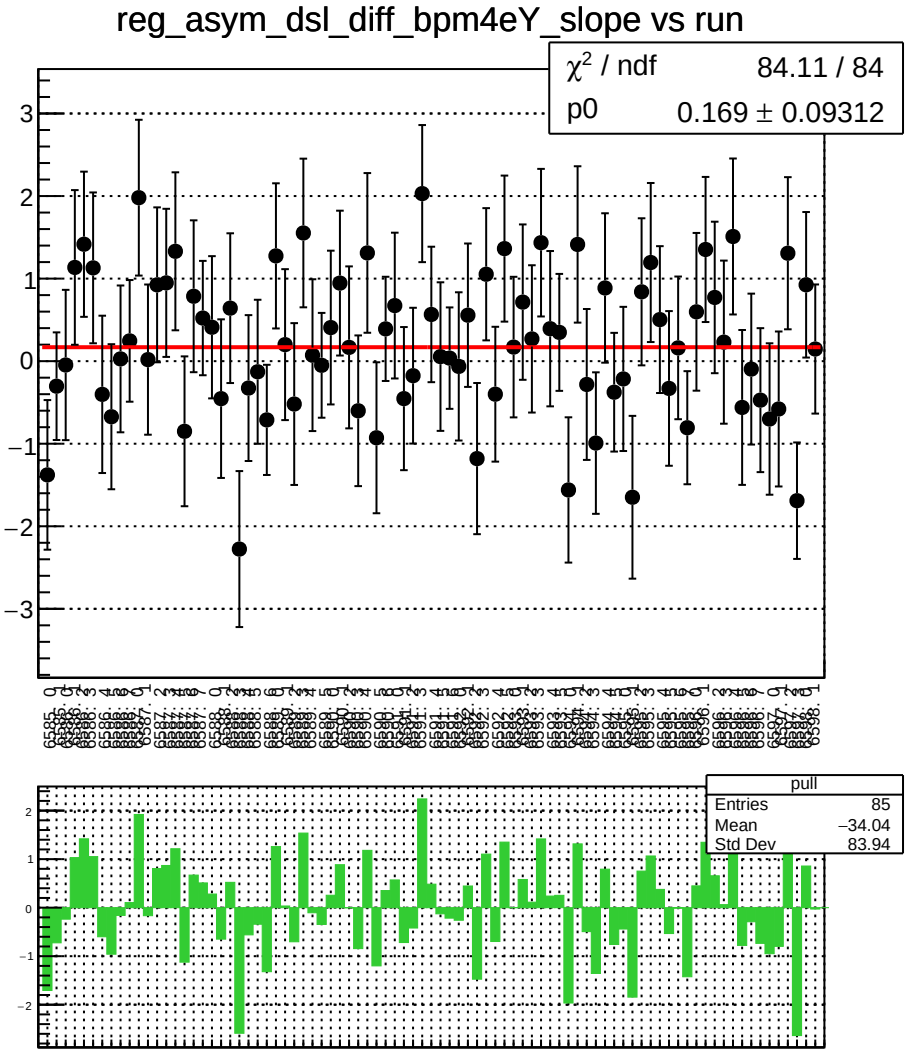


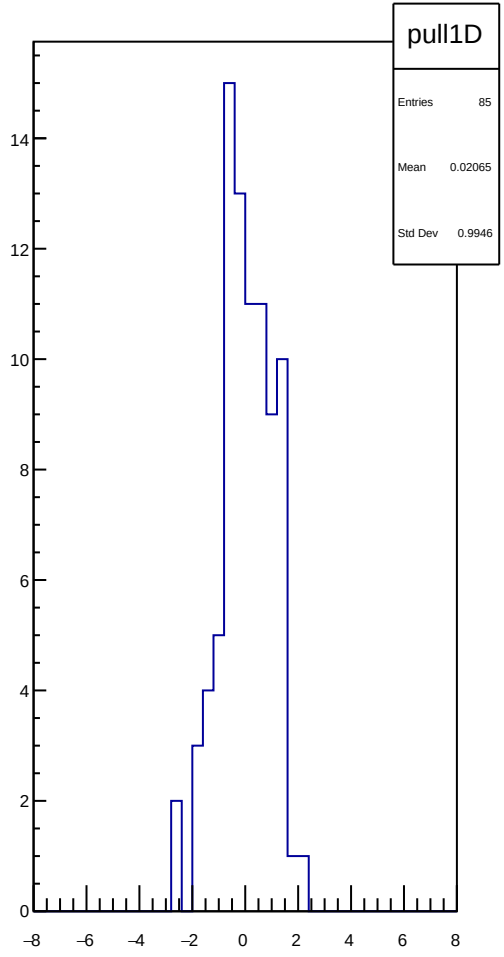


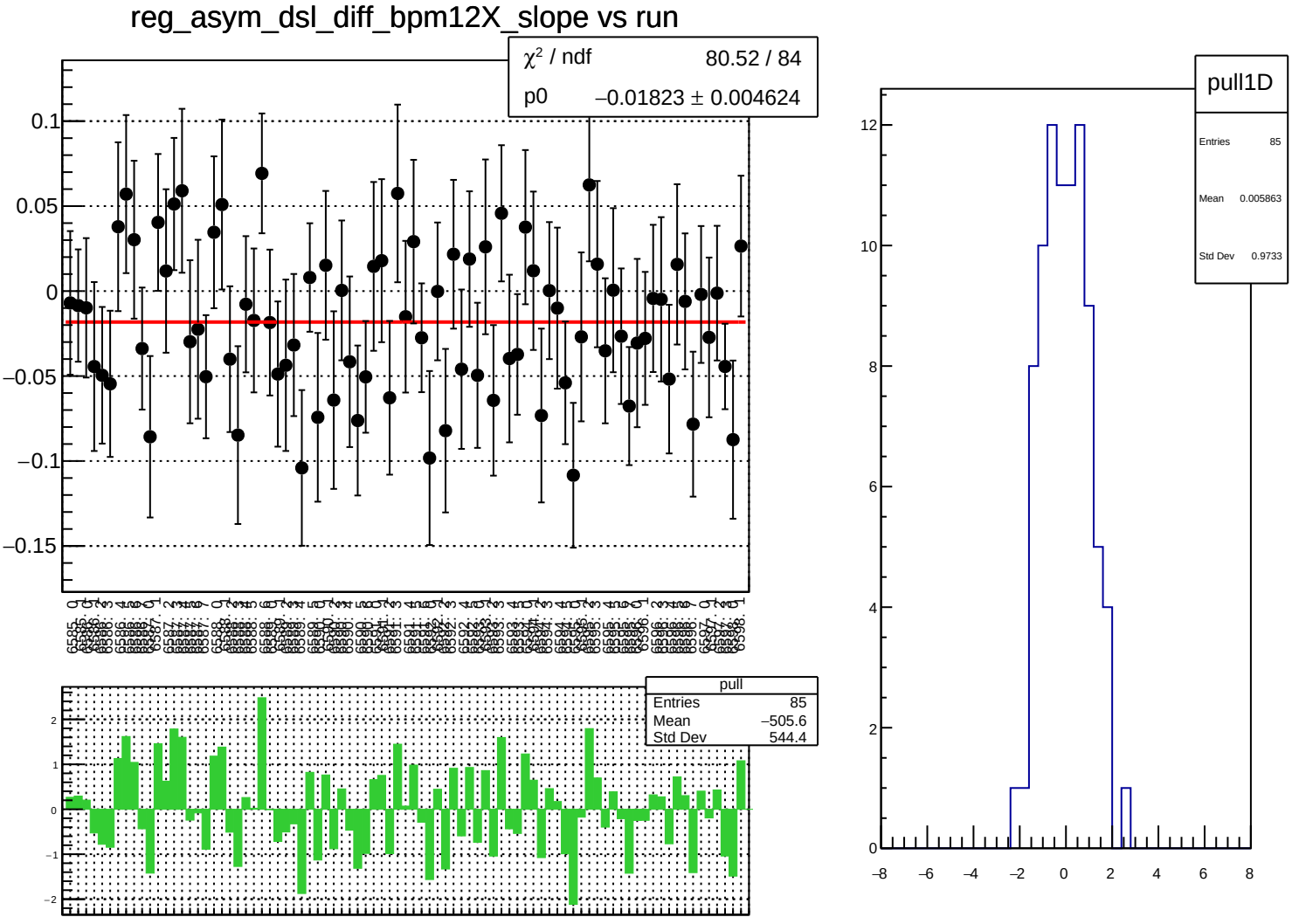

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 89.01 / 84
p0 −0.1263 ± 0.07773
pull
Entries 85
Mean 4.556
Std Dev 50.03
pull1D
Entries 85
Mean −0.02403
Std Dev 1.023

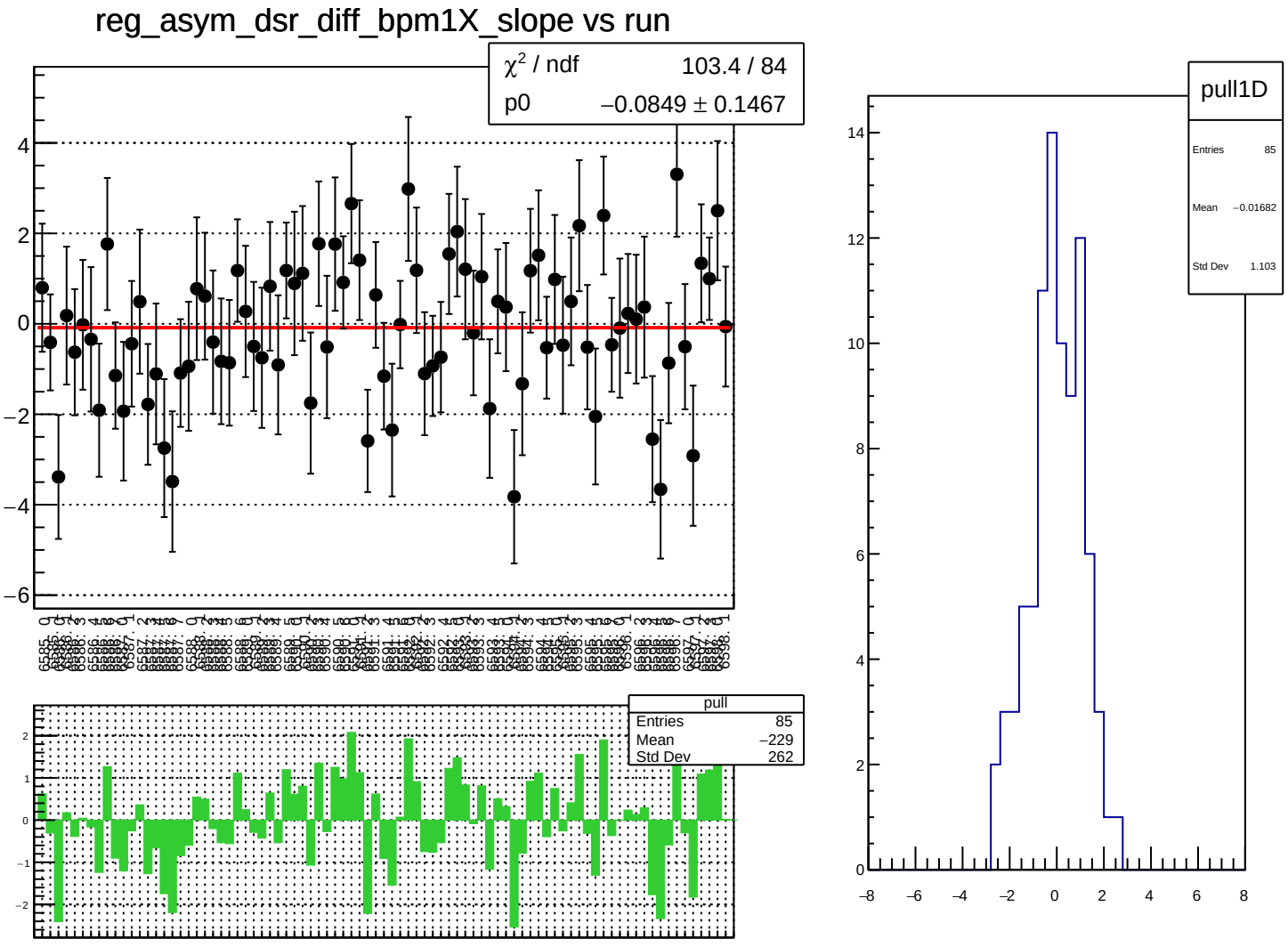

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 103.2 / 84
p0 0.02813 ± 0.115
pull
Entries 85
Mean 3484
Std Dev 3470

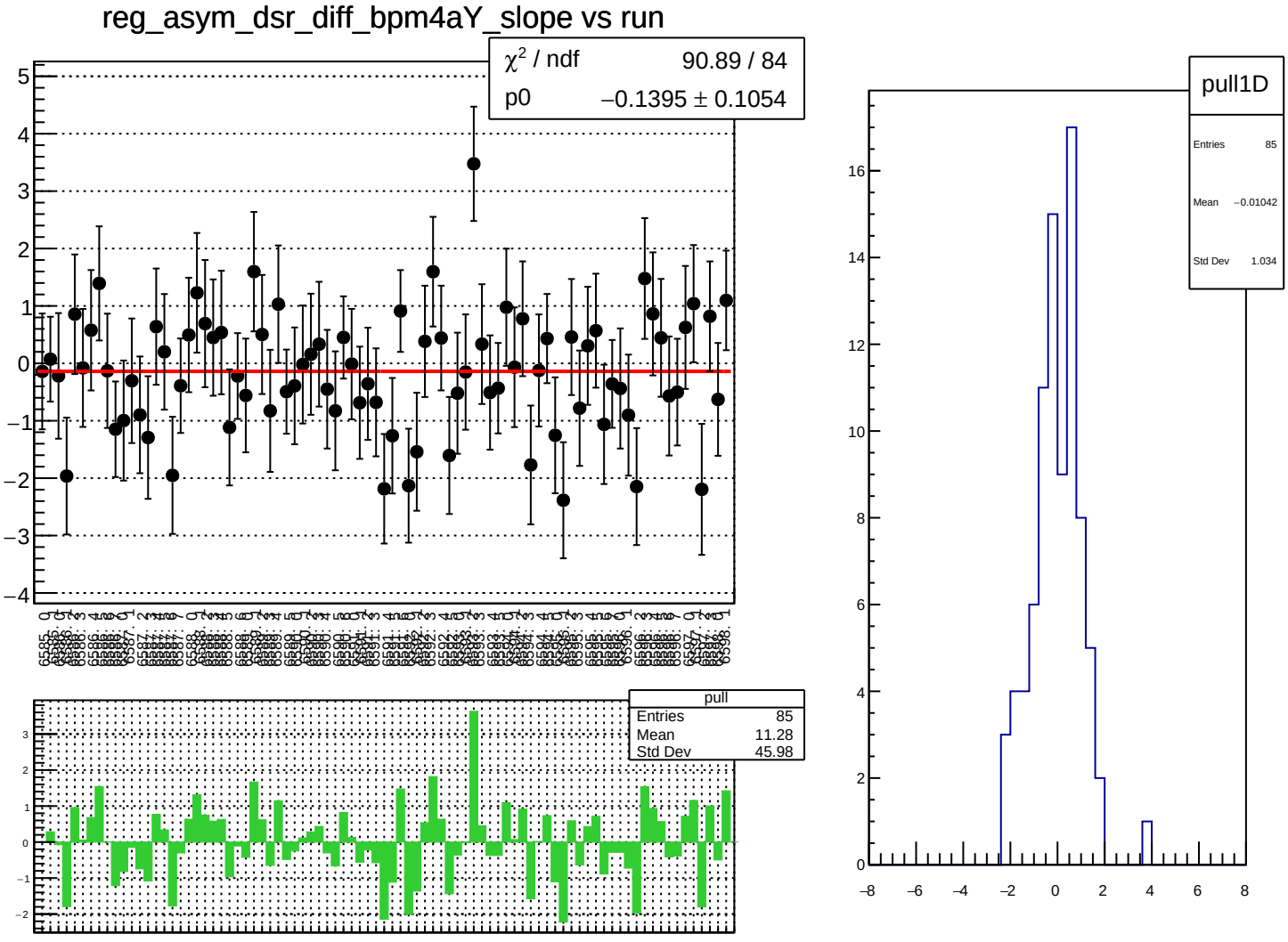

pull1D
Entries 85
Mean 0.0004898
Std Dev 1.102

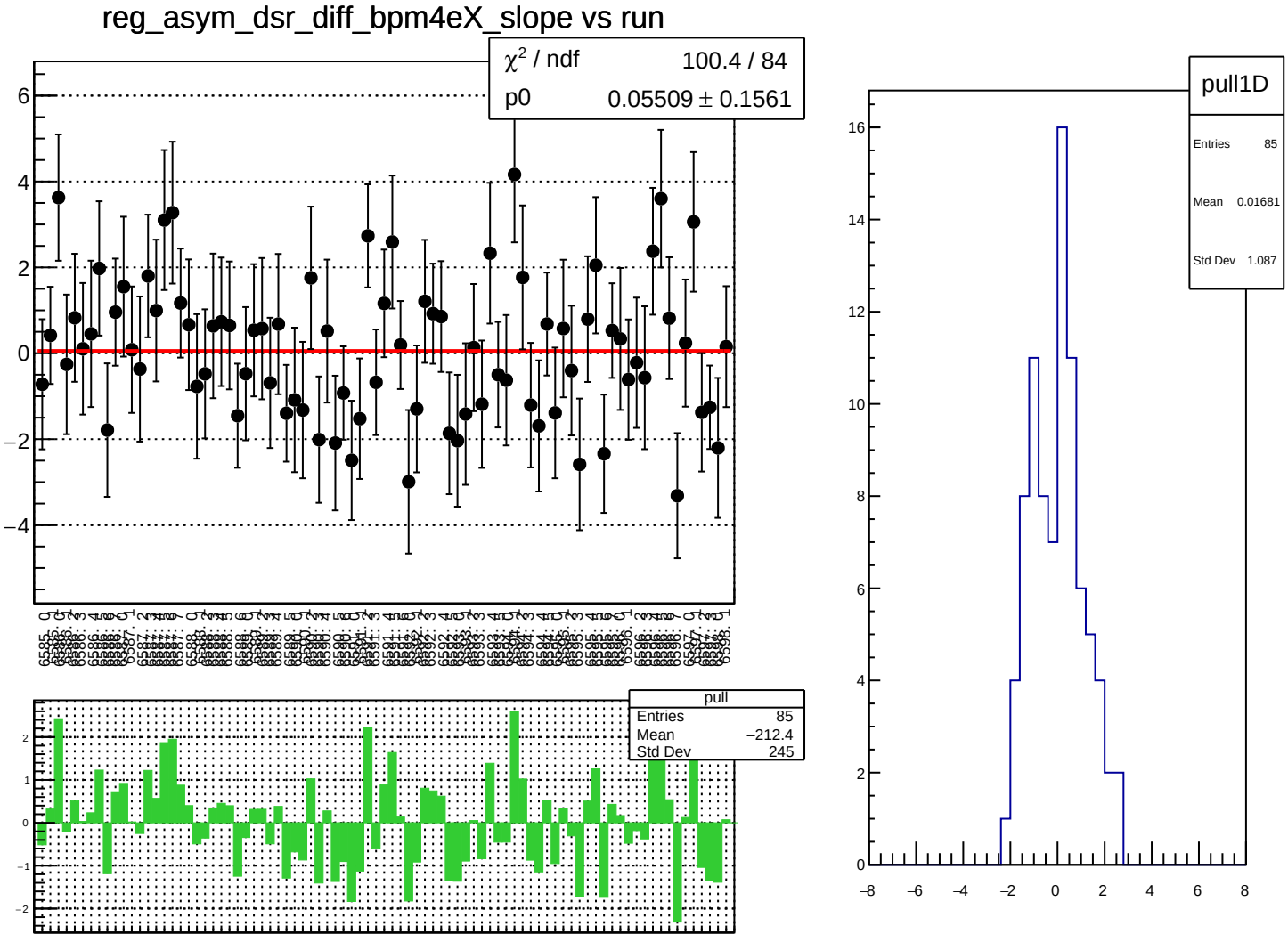

reg_asym_dsl_diff_bpm4eY_slope vs run
χ^2 / ndf 84.11 / 84
p0 0.169 ± 0.09312
pull
Entries 85
Mean −34.04
Std Dev 83.94

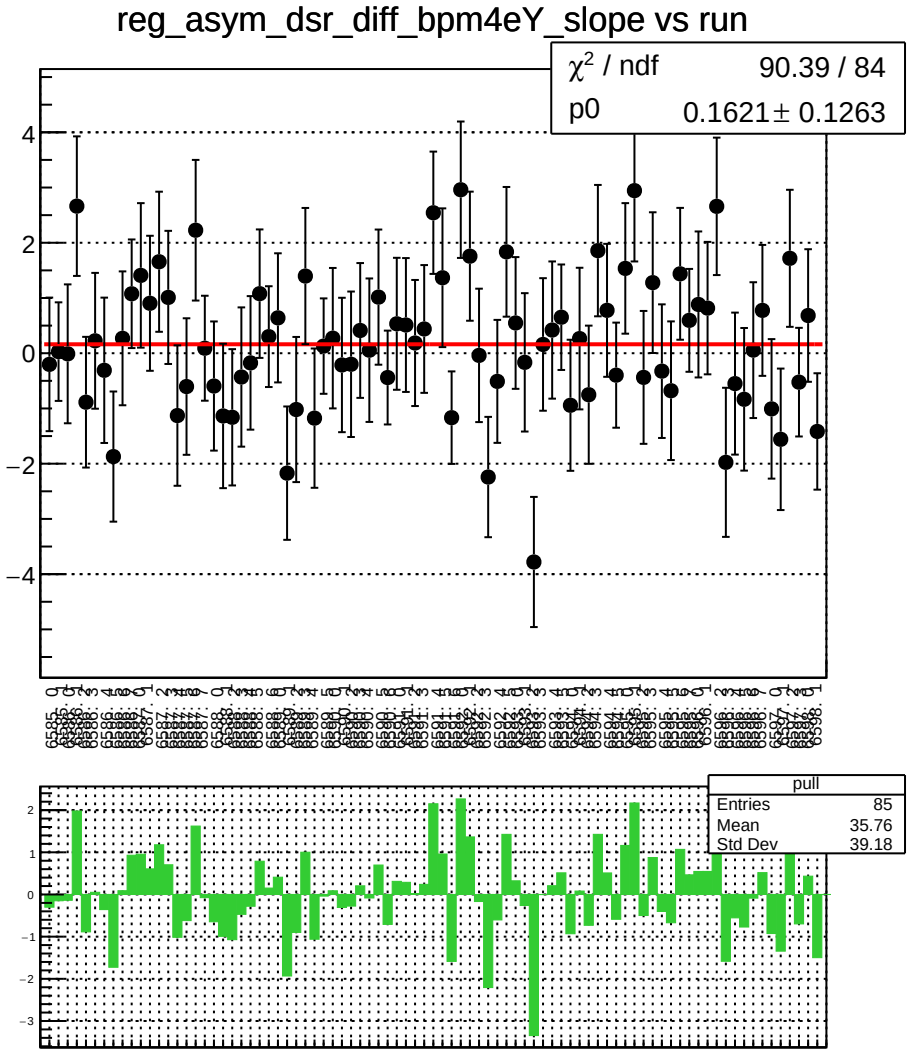

pull1D
Entries 85
Mean 0.02065
Std Dev 0.9946

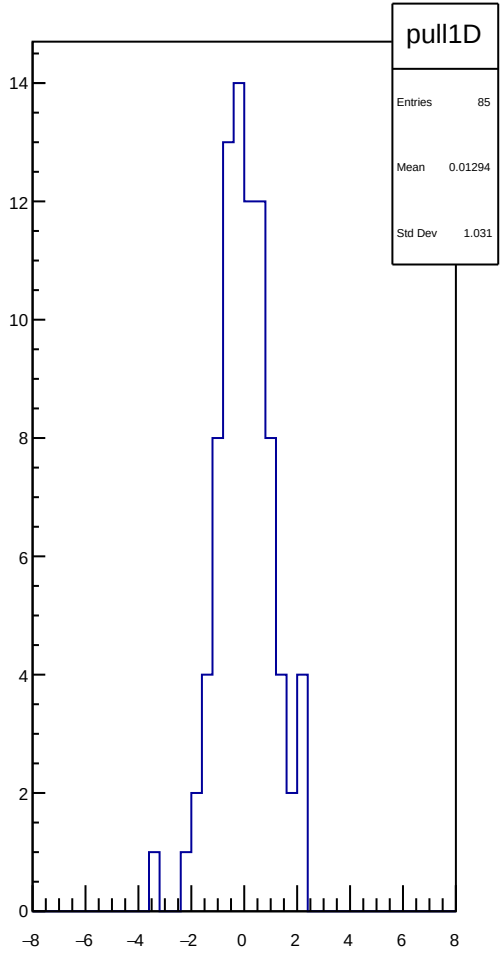

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 80.52 / 84
p0 −0.01823 ± 0.004624
pull
Entries 85
Mean −505.6
Std Dev 544.4
pull1D
Entries 85
Mean 0.005863
Std Dev 0.9733

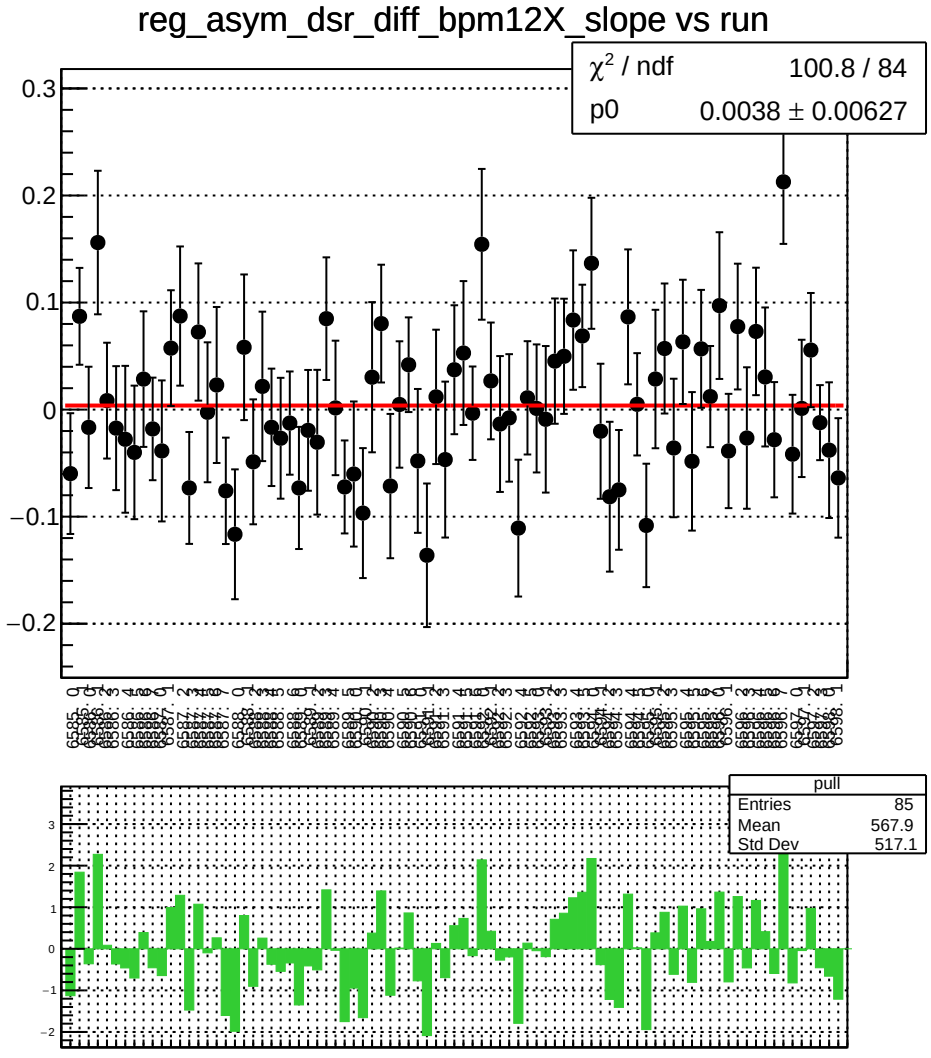

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 103.4 / 84
p0 −0.0849 ± 0.1467
pull
Entries 85
Mean −229
Std Dev 262
pull1D
Entries 85
Mean −0.01682
Std Dev 1.103

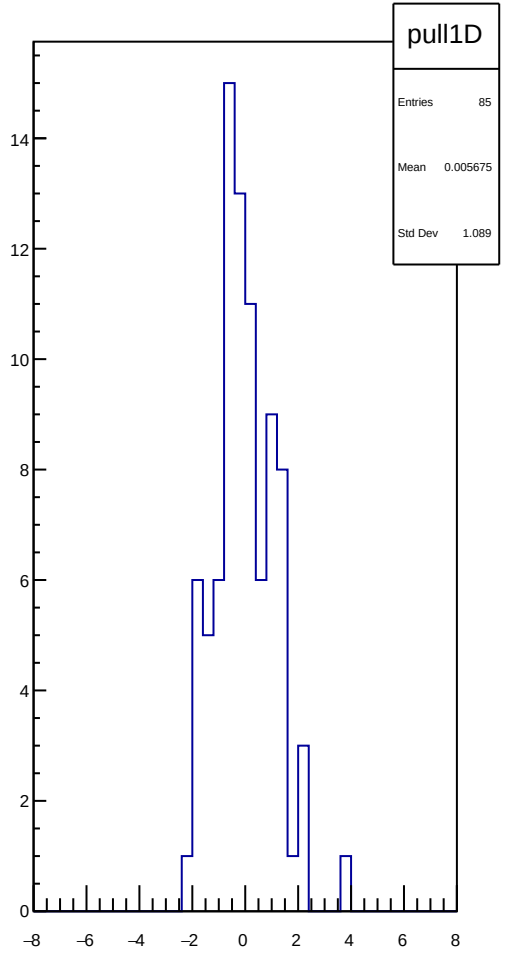

reg_asym_dsr_diff_bpm4aY_slope vs run
χ^2 / ndf 90.89 / 84
p0 −0.1395 ± 0.1054
pull
Entries 85
Mean 11.28
Std Dev 45.98
pull1D
Entries 85
Mean −0.01042
Std Dev 1.034

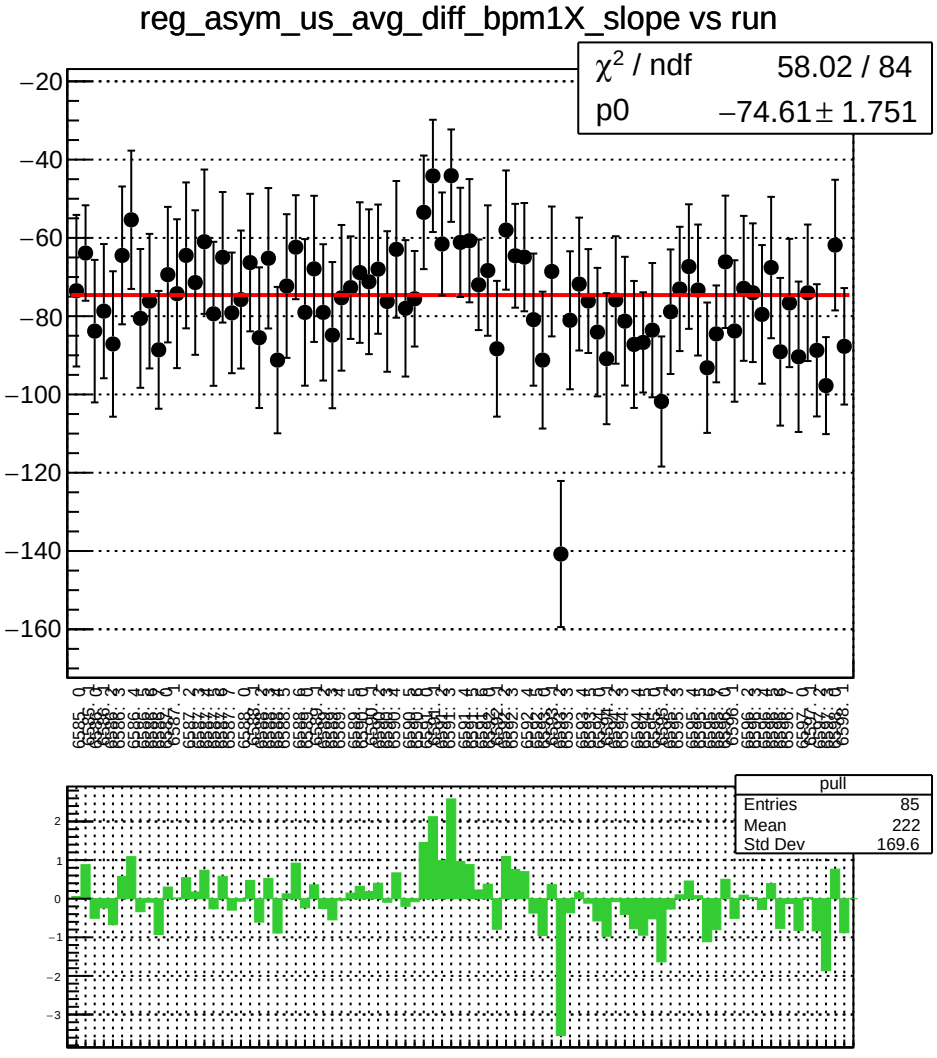

reg_asym_dsr_diff_bpm4eX_slope vs run
χ^2 / ndf 100.4 / 84
p0 0.05509 ± 0.1561
pull
Entries 85
Mean −212.4
Std Dev 245
pull1D
Entries 85
Mean 0.01681
Std Dev 1.087

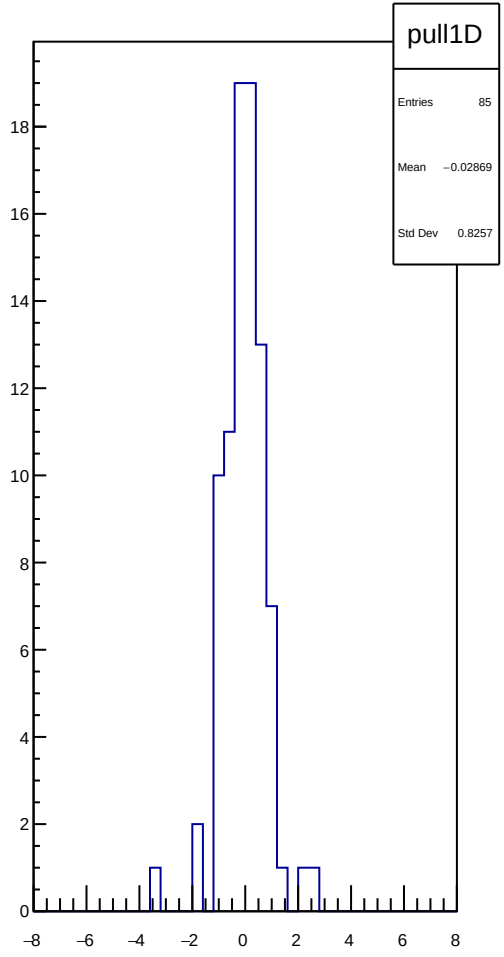

reg_asym_dsr_diff_bpm4eY_slope vs run
χ^2 / ndf 90.39 / 84
p0 0.1621 ± 0.1263
pull
Entries 85
Mean 35.76
Std Dev 39.18

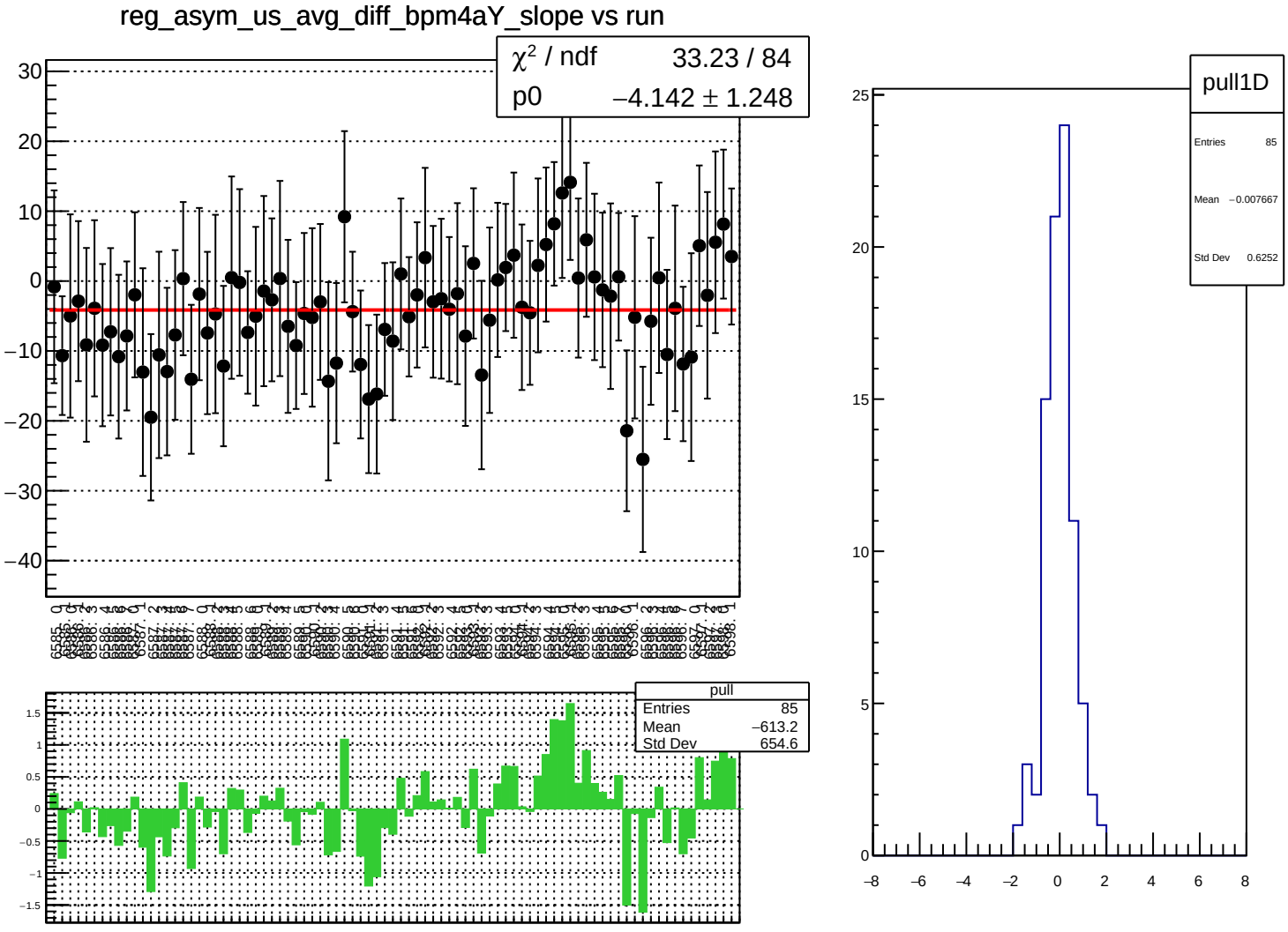

pull1D
Entries 85
Mean 0.01294
Std Dev 1.031

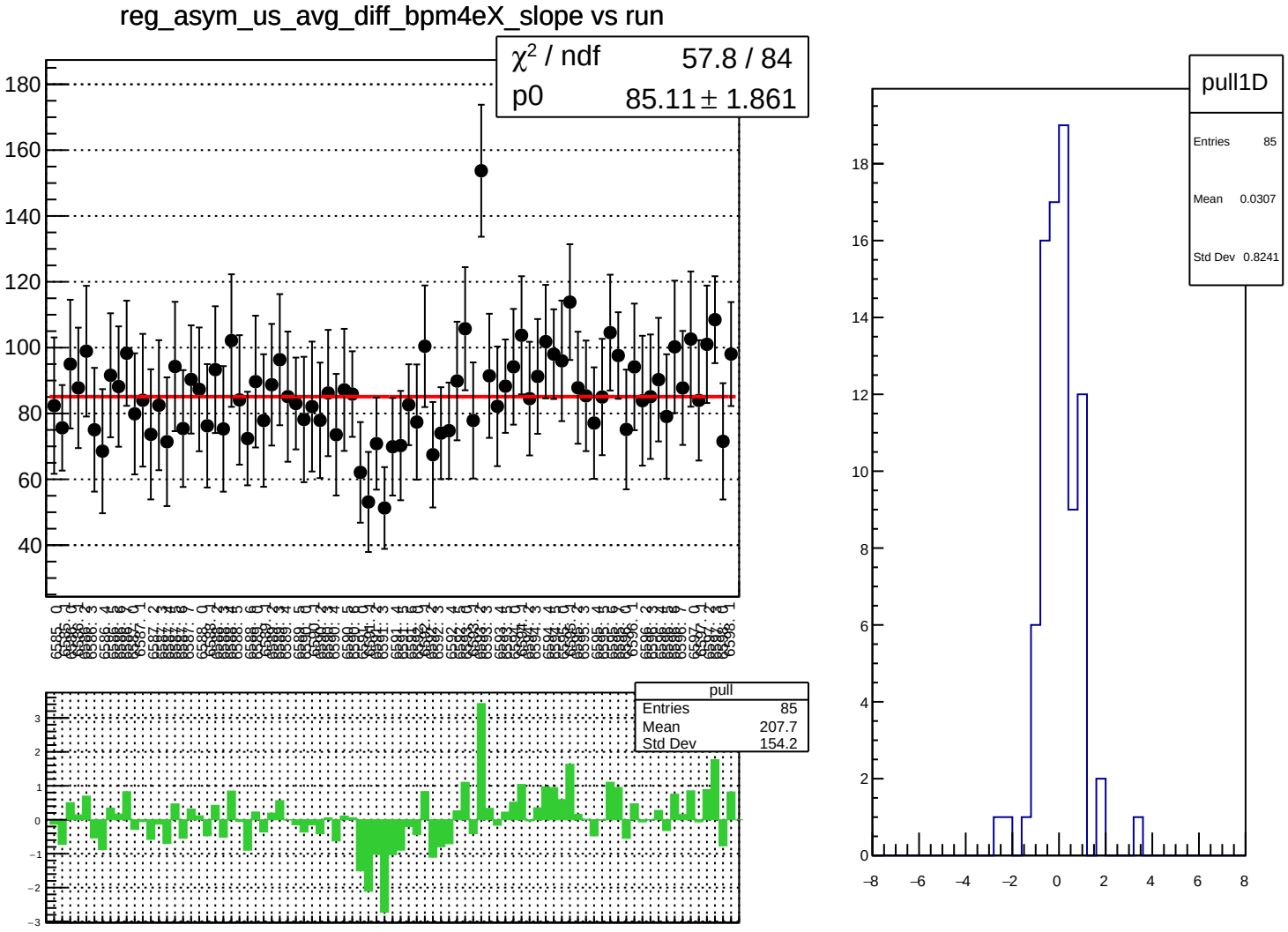

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 100.8 / 84
p0 0.0038 ± 0.00627
pull
Entries 85
Mean 567.9
Std Dev 517.1

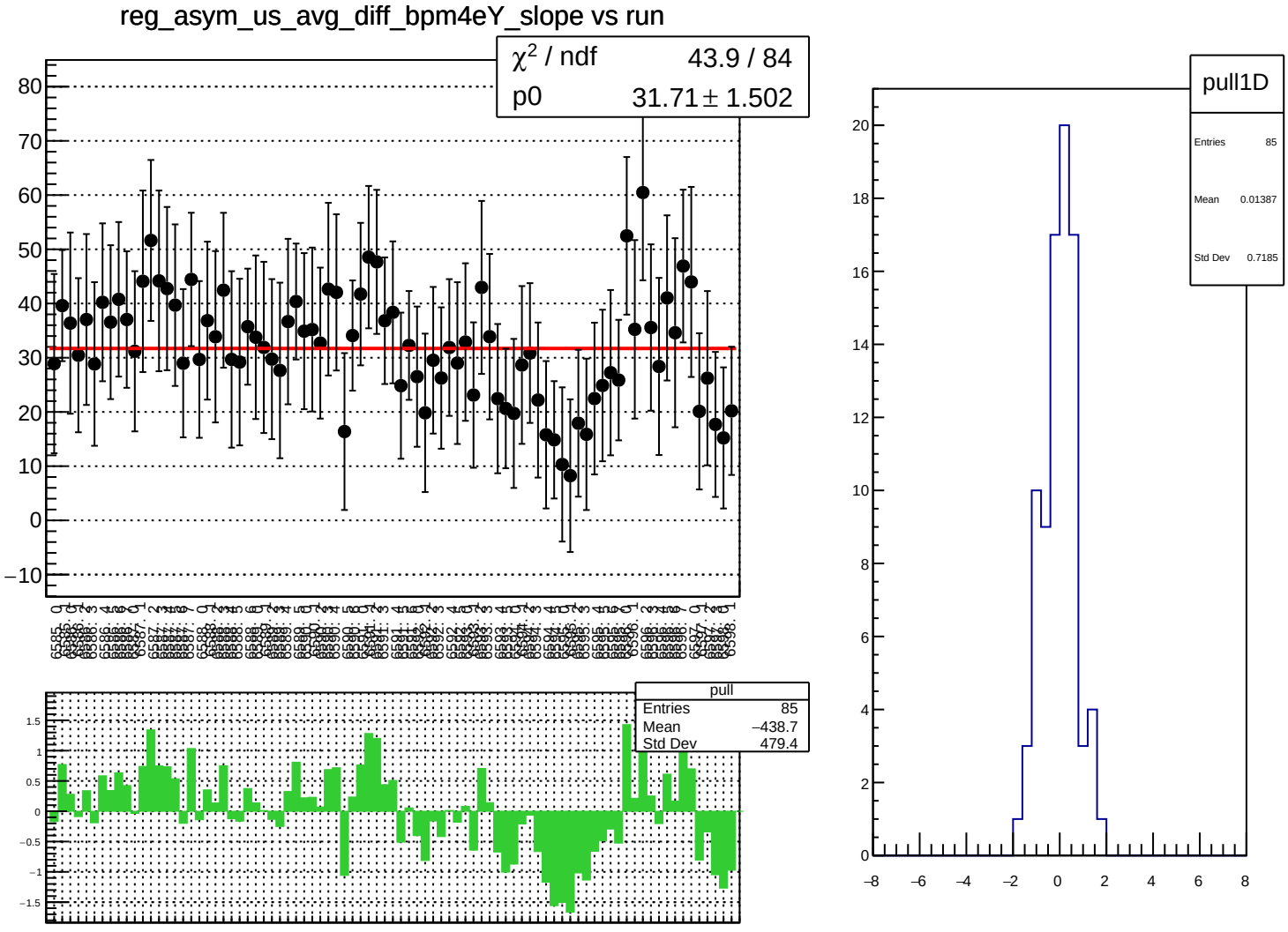

pull1D
Entries 85
Mean 0.005675
Std Dev 1.089

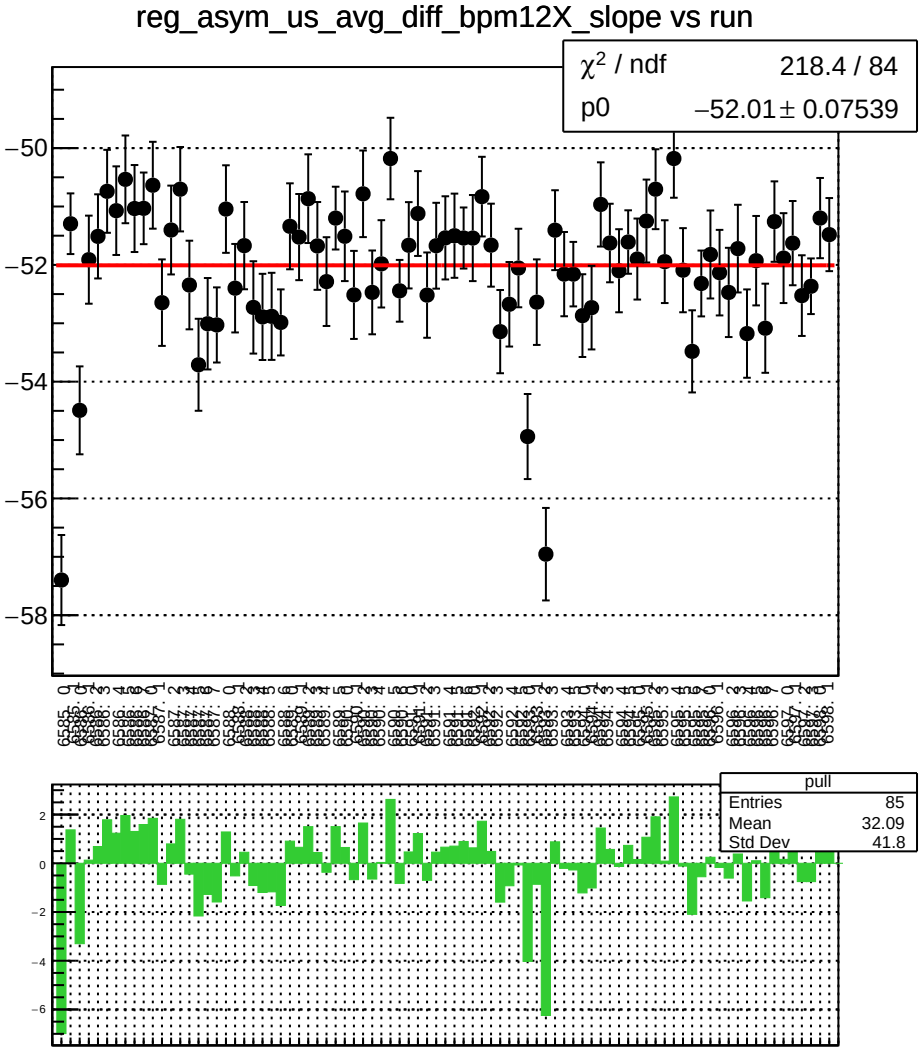

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 58.02 / 84
p0 −74.61 ± 1.751
pull
Entries 85
Mean 222
Std Dev 169.6

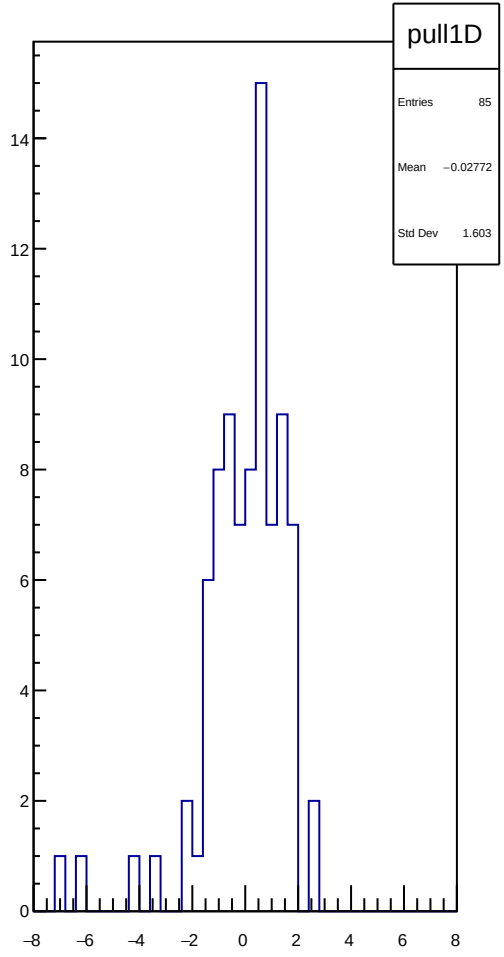

pull1D
Entries 85
Mean −0.02869
Std Dev 0.8257

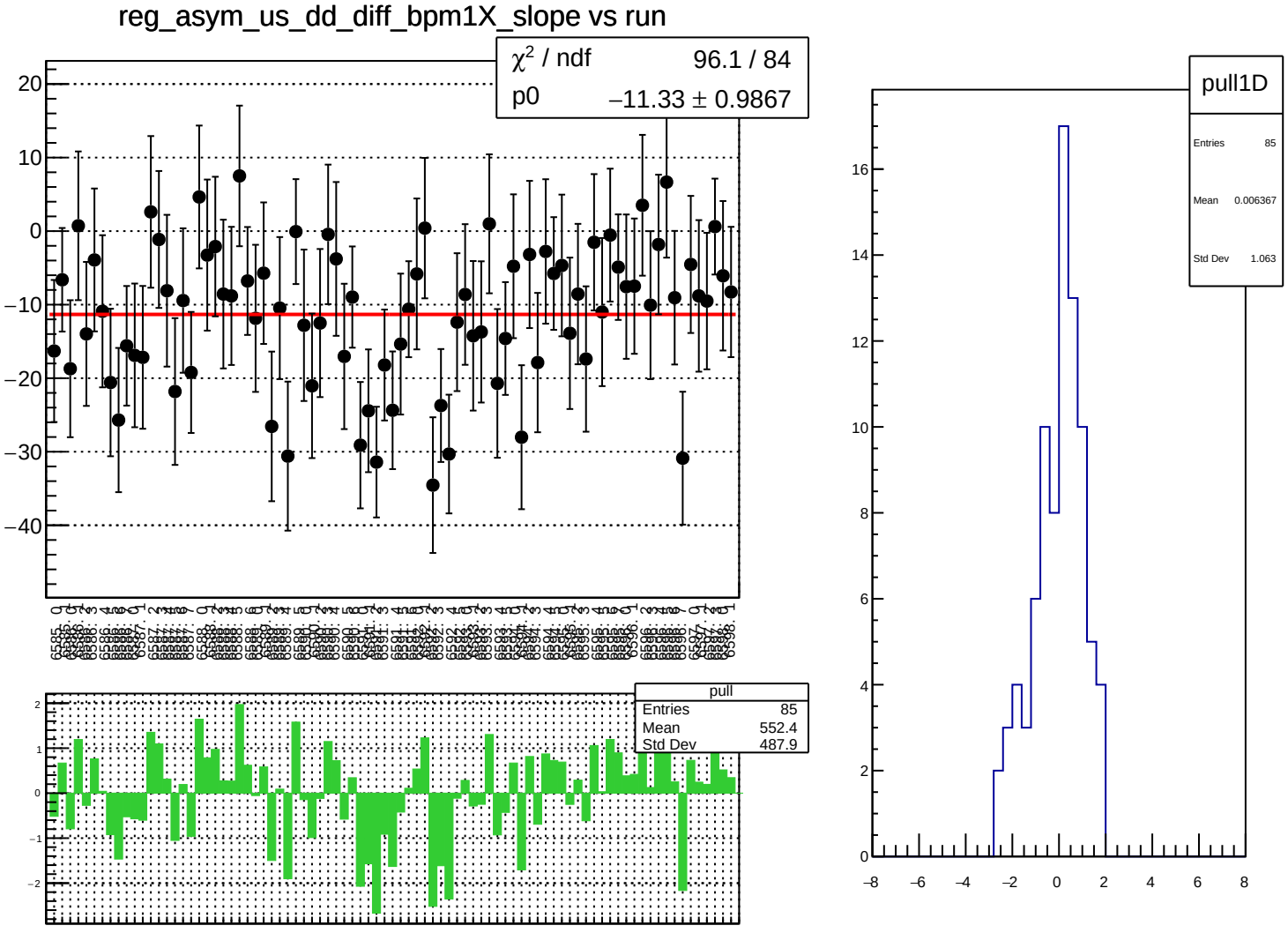

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.23 / 84
p0 −4.142 ± 1.248
pull
Entries 85
Mean −613.2
Std Dev 654.6
pull1D
Entries 85
Mean −0.007667
Std Dev 0.6252

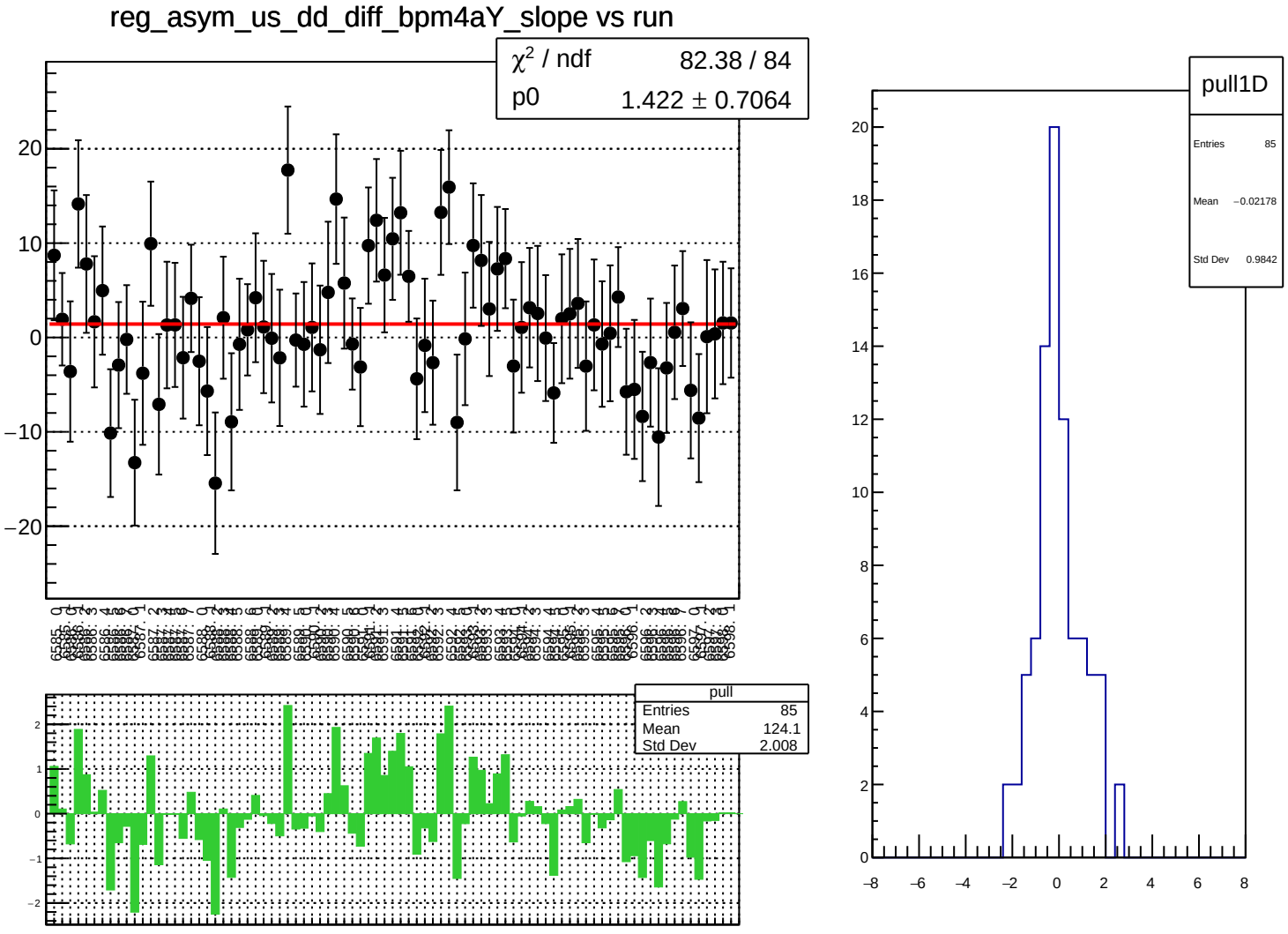

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.8 / 84
p0 85.11 ± 1.861
pull
Entries 85
Mean 207.7
Std Dev 154.2
pull1D
Entries 85
Mean 0.0307
Std Dev 0.8241

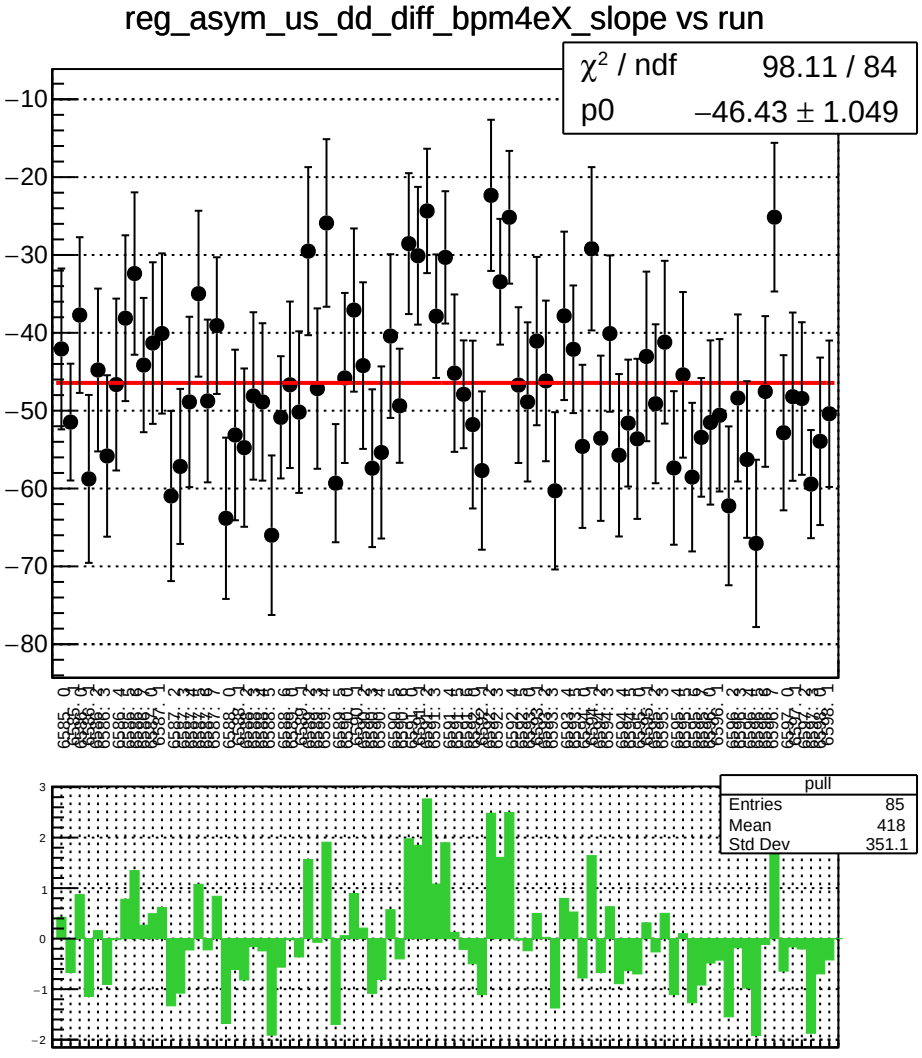

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.9 / 84
p0 31.71 ± 1.502
pull
Entries 85
Mean −438.7
Std Dev 479.4
pull1D
Entries 85
Mean 0.01387
Std Dev 0.7185

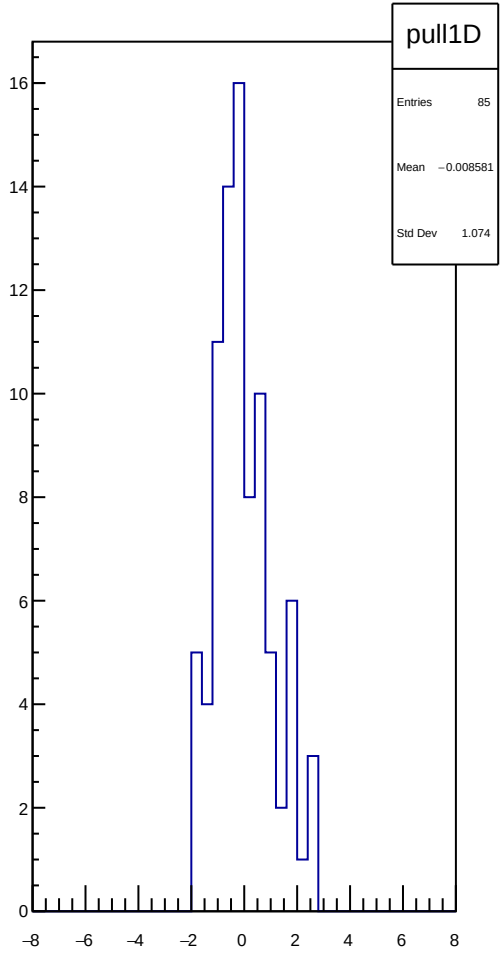

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 218.4 / 84
p0 −52.01 ± 0.07539
−50
−52
−54
−56
−58
pull
Entries 85
Mean 32.09
Std Dev 41.8
2
0
−2
−4
−6

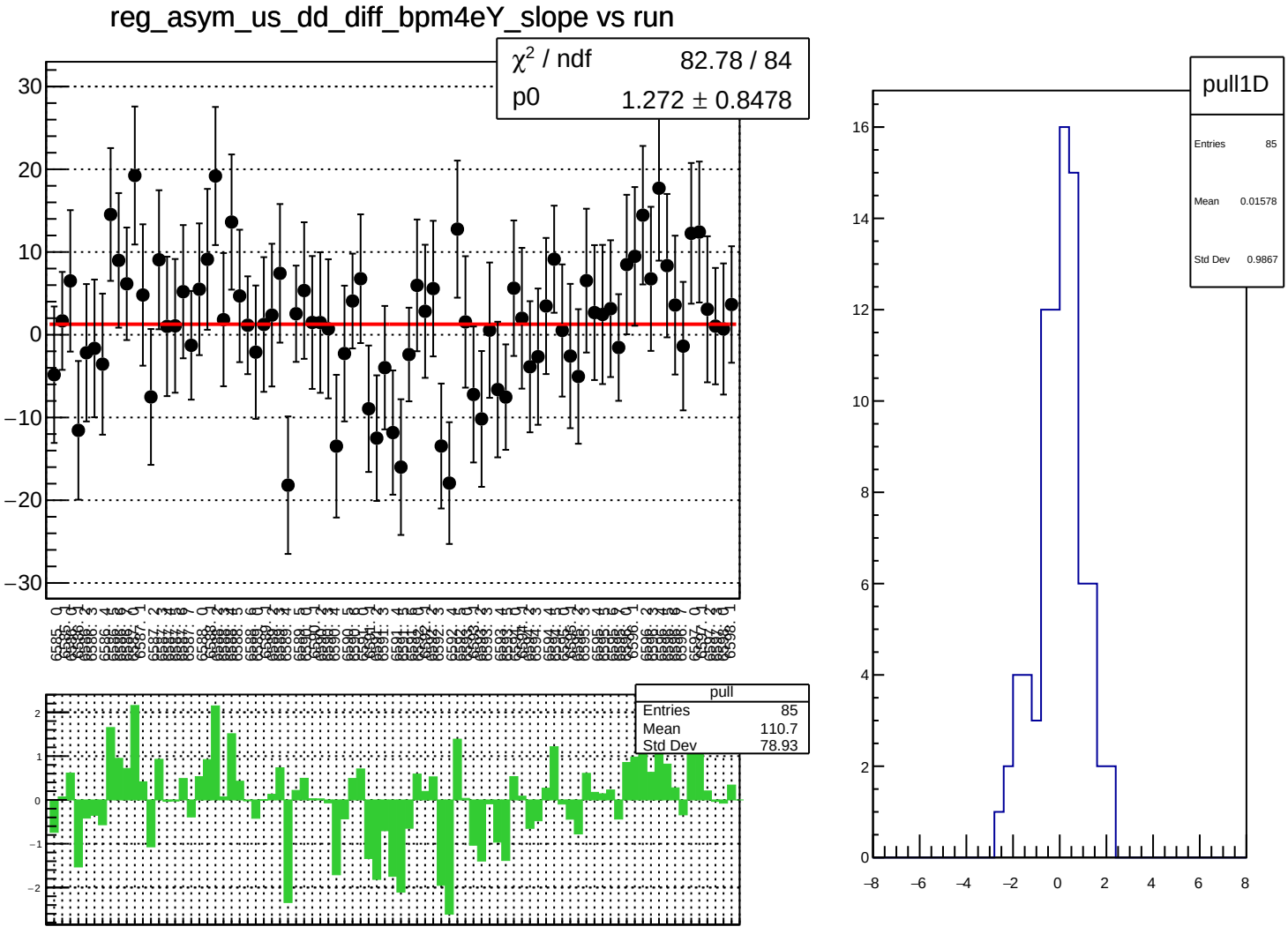

pull1D
Entries 85
Mean −0.02772
Std Dev 1.603
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

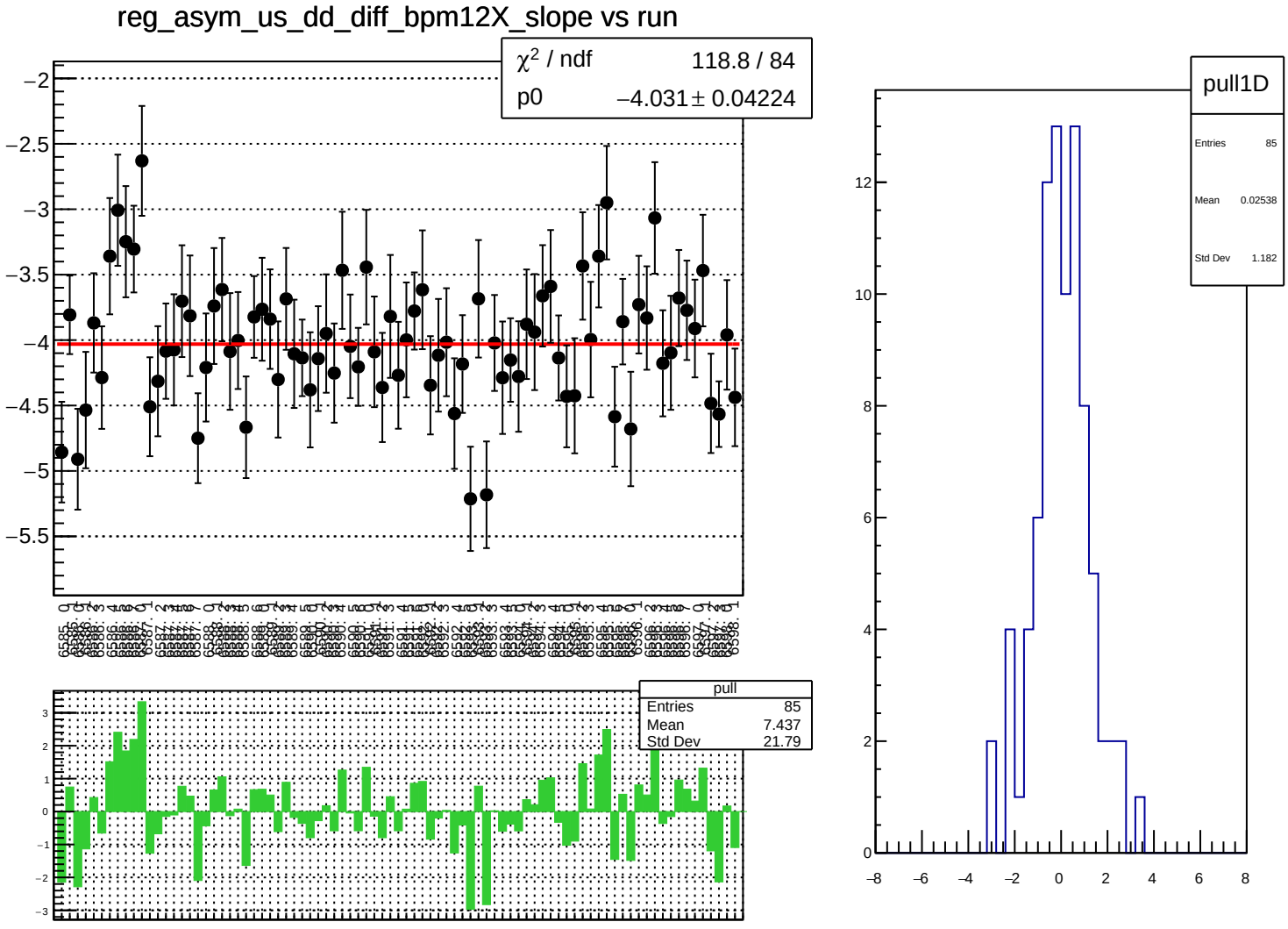

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 96.1 / 84
p0 −11.33 ± 0.9867
pull
Entries 85
Mean 552.4
Std Dev 487.9
pull1D
Entries 85
Mean 0.006367
Std Dev 1.063

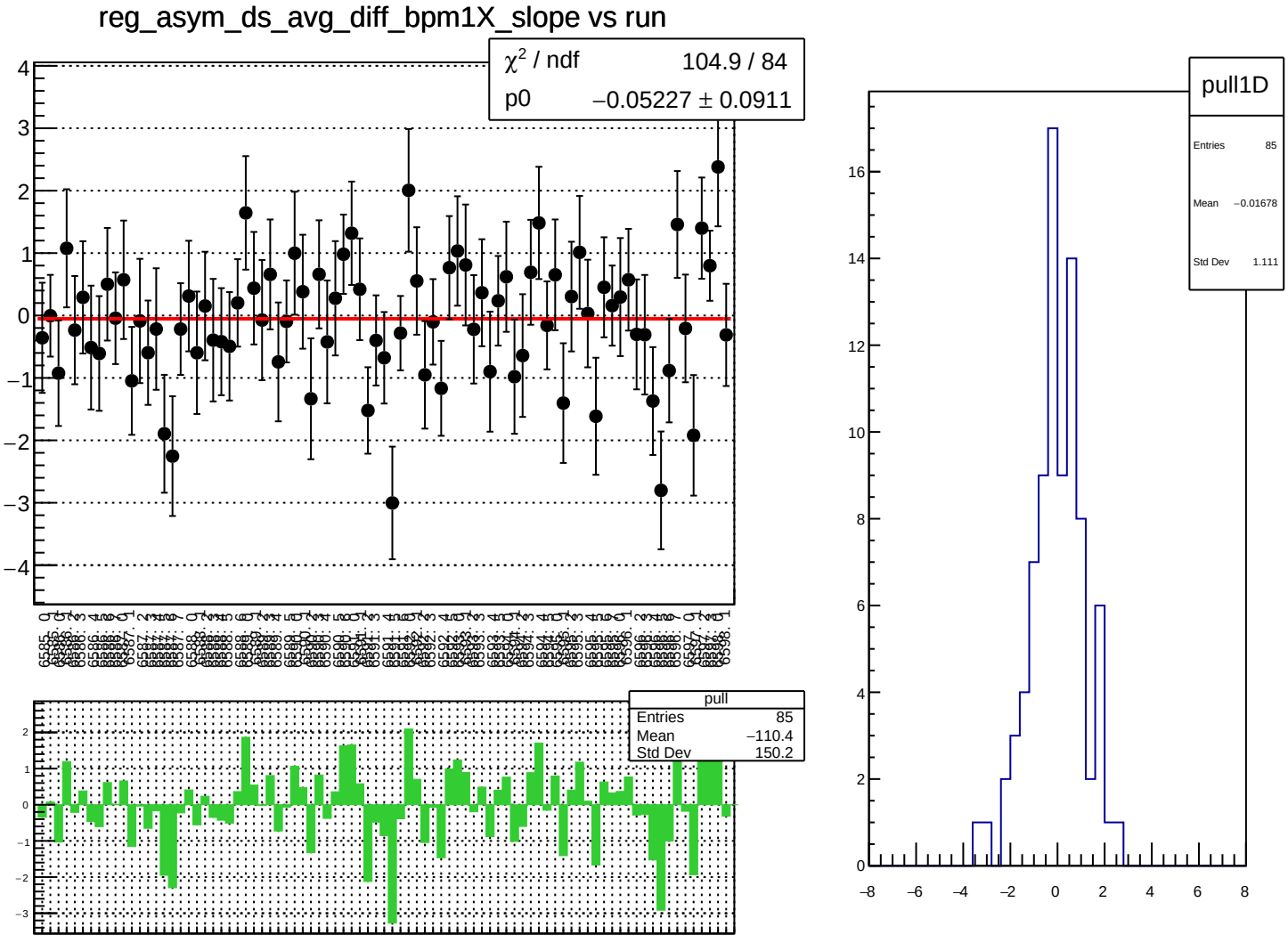

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.38 / 84
p0 1.422 ± 0.7064
pull
Entries 85
Mean 124.1
Std Dev 2.008
pull1D
Entries 85
Mean −0.02178
Std Dev 0.9842

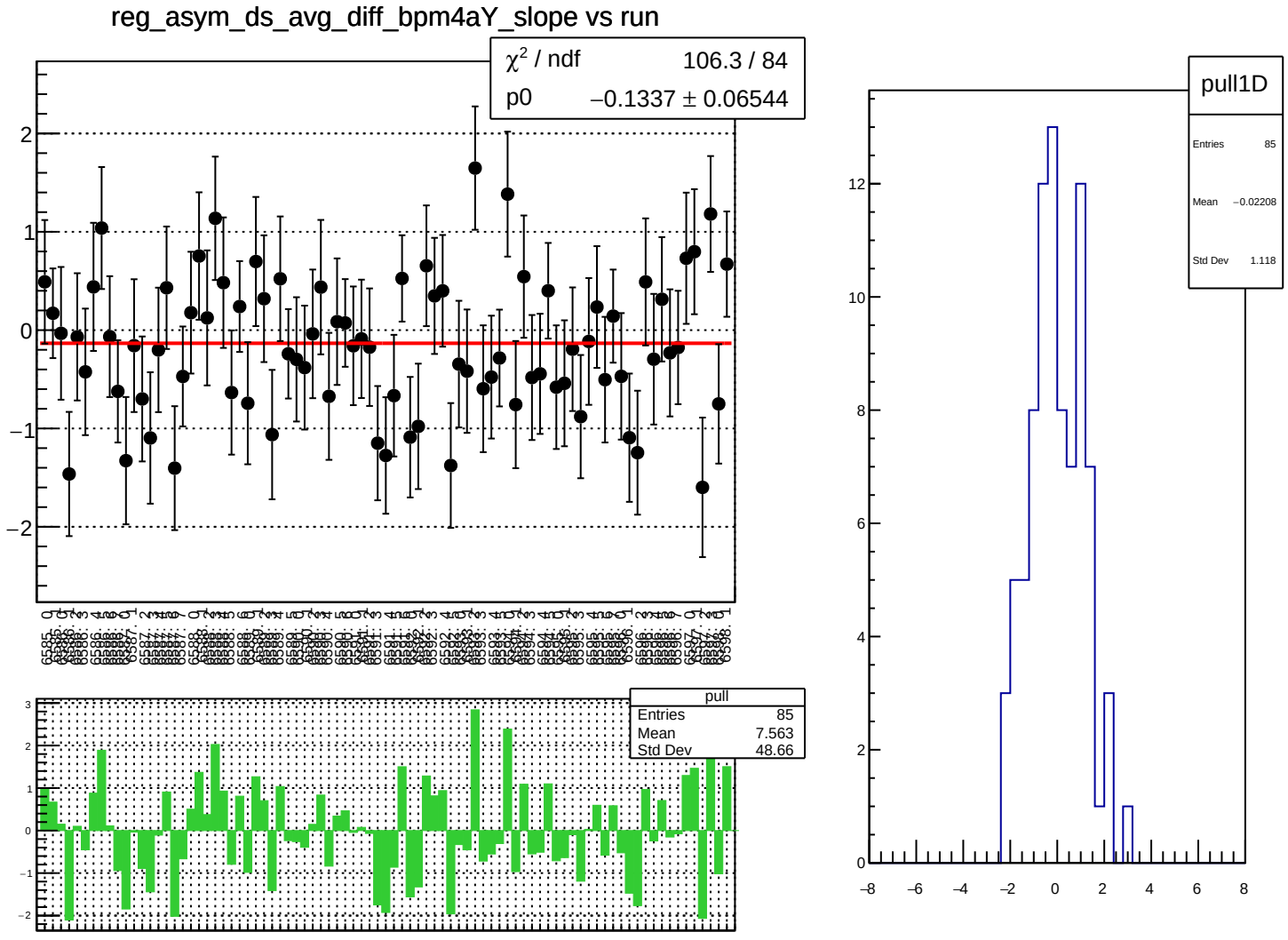

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.11 / 84
p0 −46.43 ± 1.049
pull
Entries 85
Mean 418
Std Dev 351.1

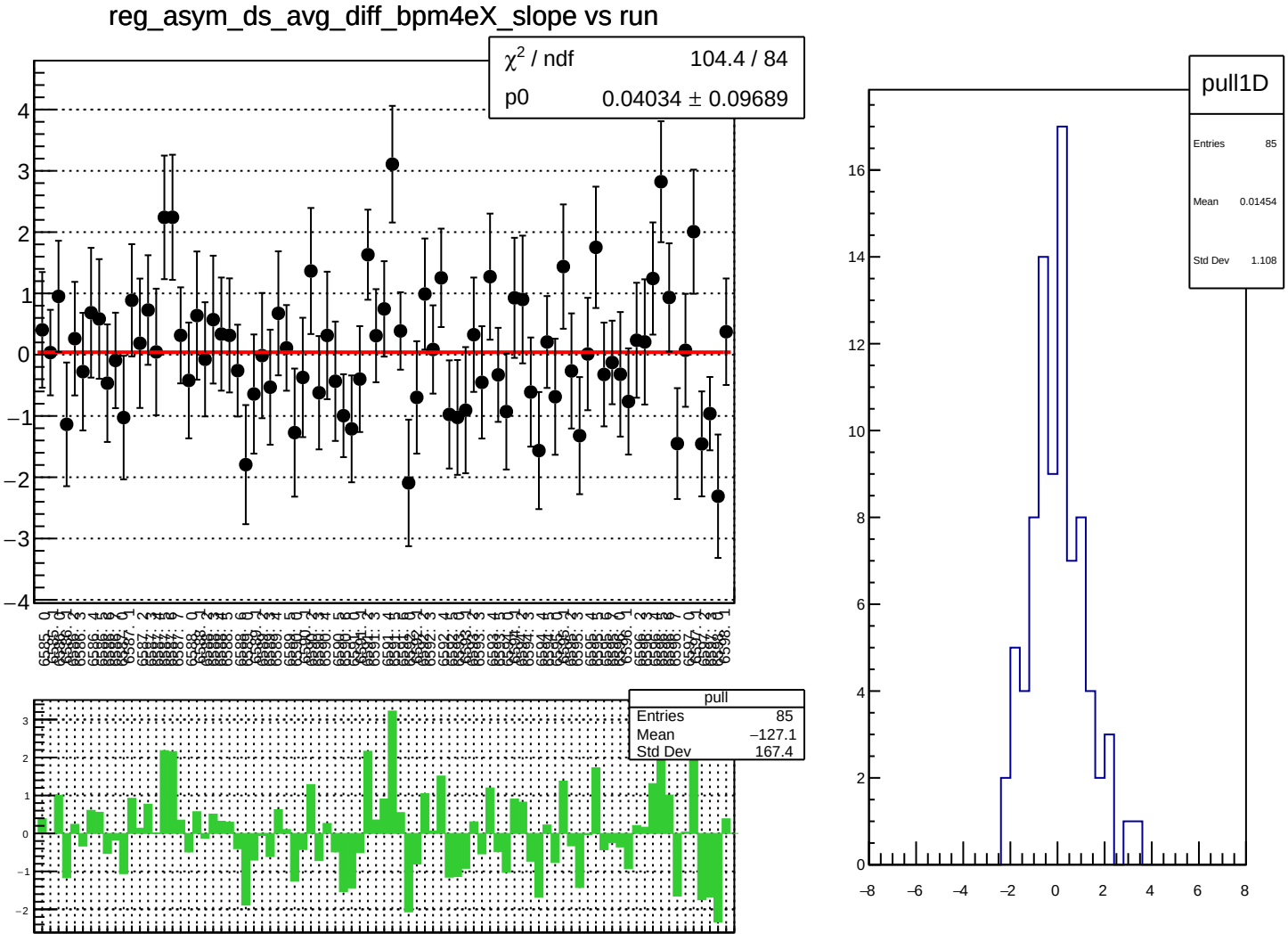

pull1D
Entries 85
Mean −0.008581
Std Dev 1.074

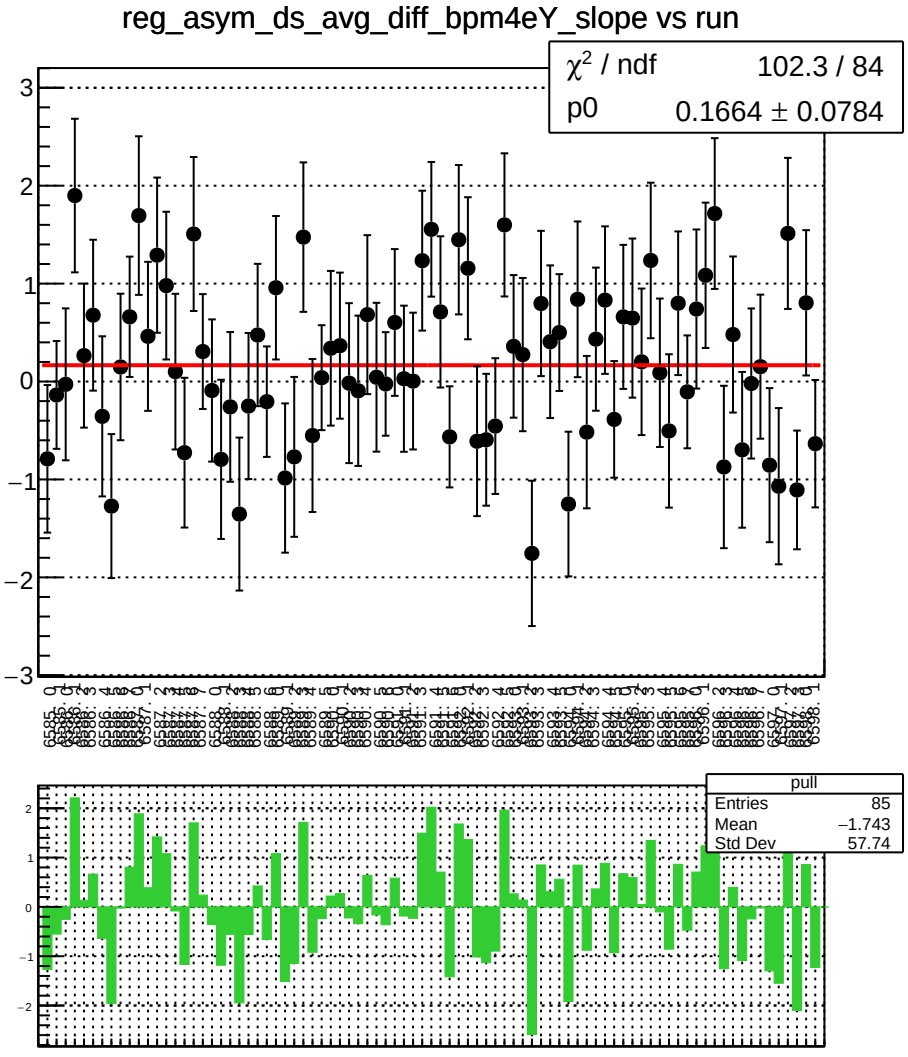

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.78 / 84
p0 1.272 ± 0.8478
pull
Entries 85
Mean 110.7
Std Dev 78.93
pull1D
Entries 85
Mean 0.01578
Std Dev 0.9867

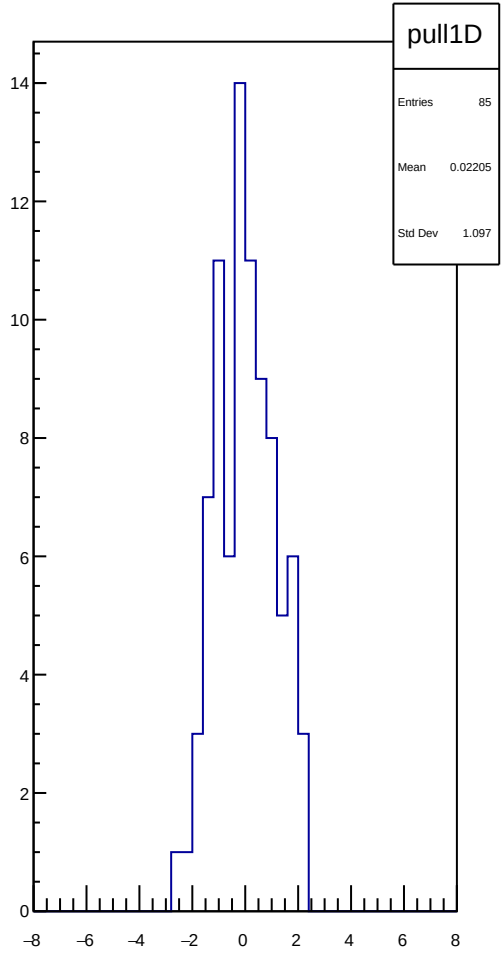

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 118.8 / 84
p0 −4.031 ± 0.04224
pull
Entries 85
Mean 7.437
Std Dev 21.79
pull1D
Entries 85
Mean 0.02538
Std Dev 1.182

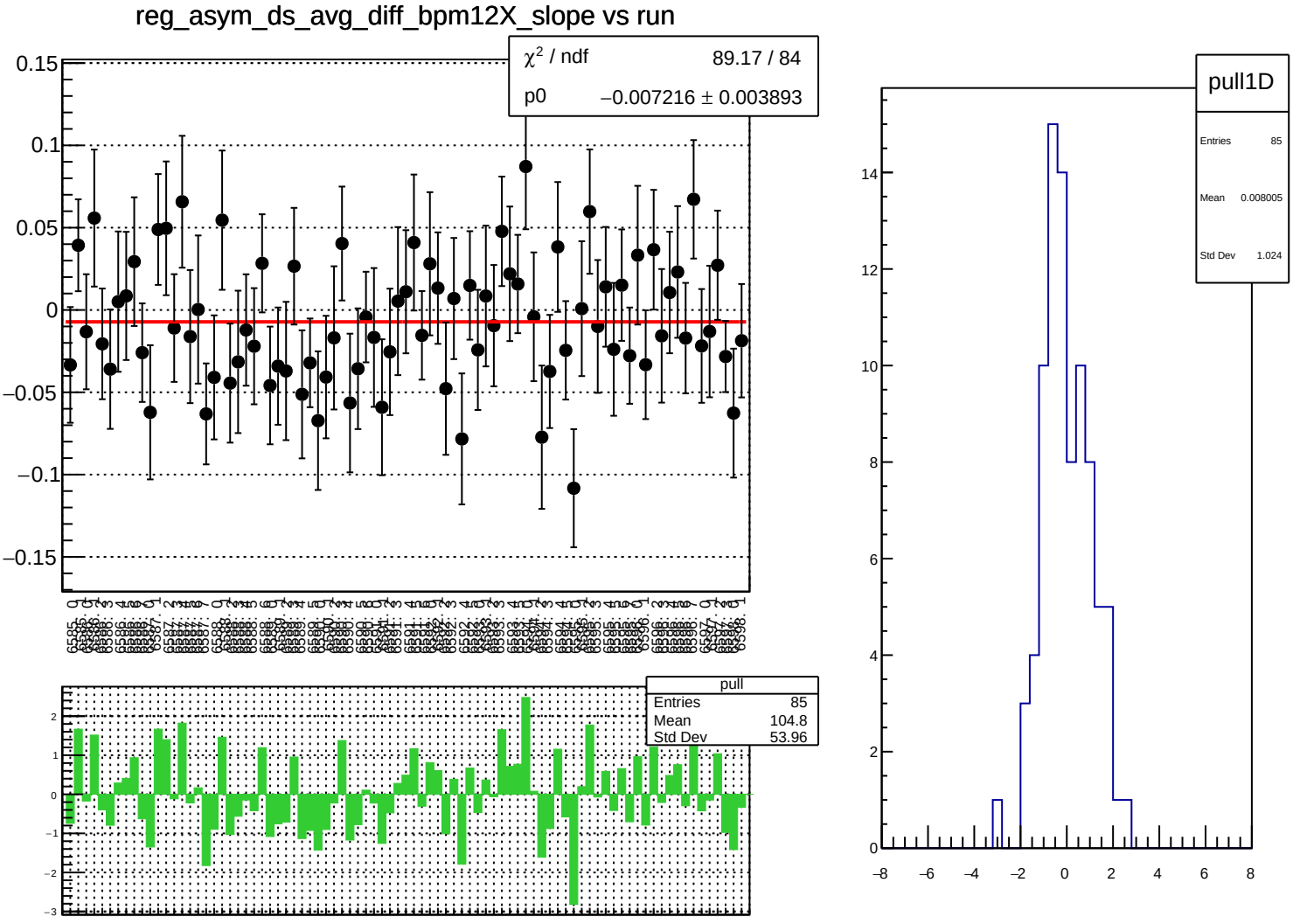

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ^2 / ndf 104.9 / 84
p0 −0.05227 ± 0.0911
pull
Entries 85
Mean −110.4
Std Dev 150.2
pull1D
Entries 85
Mean −0.01678
Std Dev 1.111

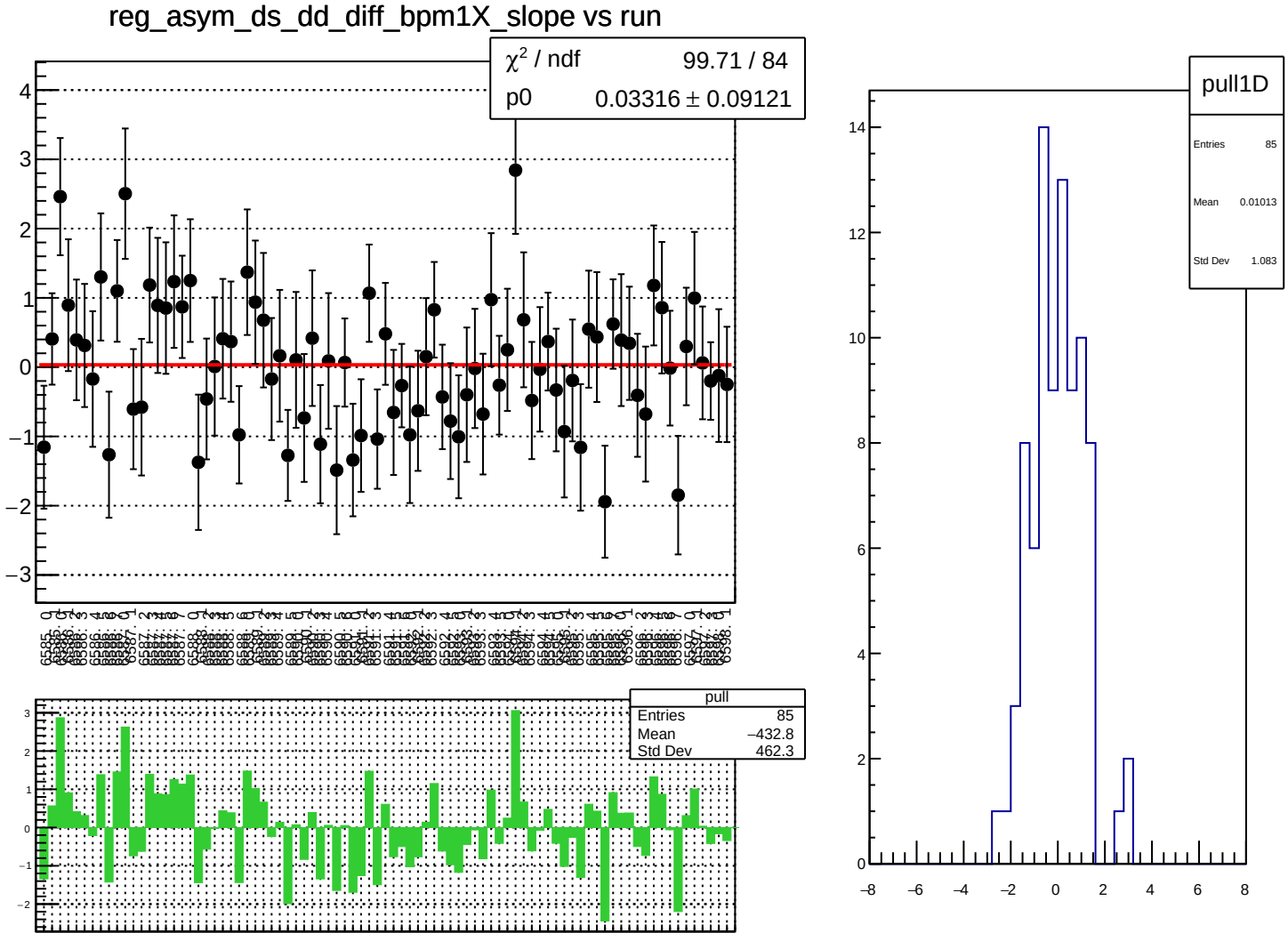

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 106.3 / 84
p0 −0.1337 ± 0.06544
pull
Entries 85
Mean 7.563
Std Dev 48.66
pull1D
Entries 85
Mean −0.02208
Std Dev 1.118

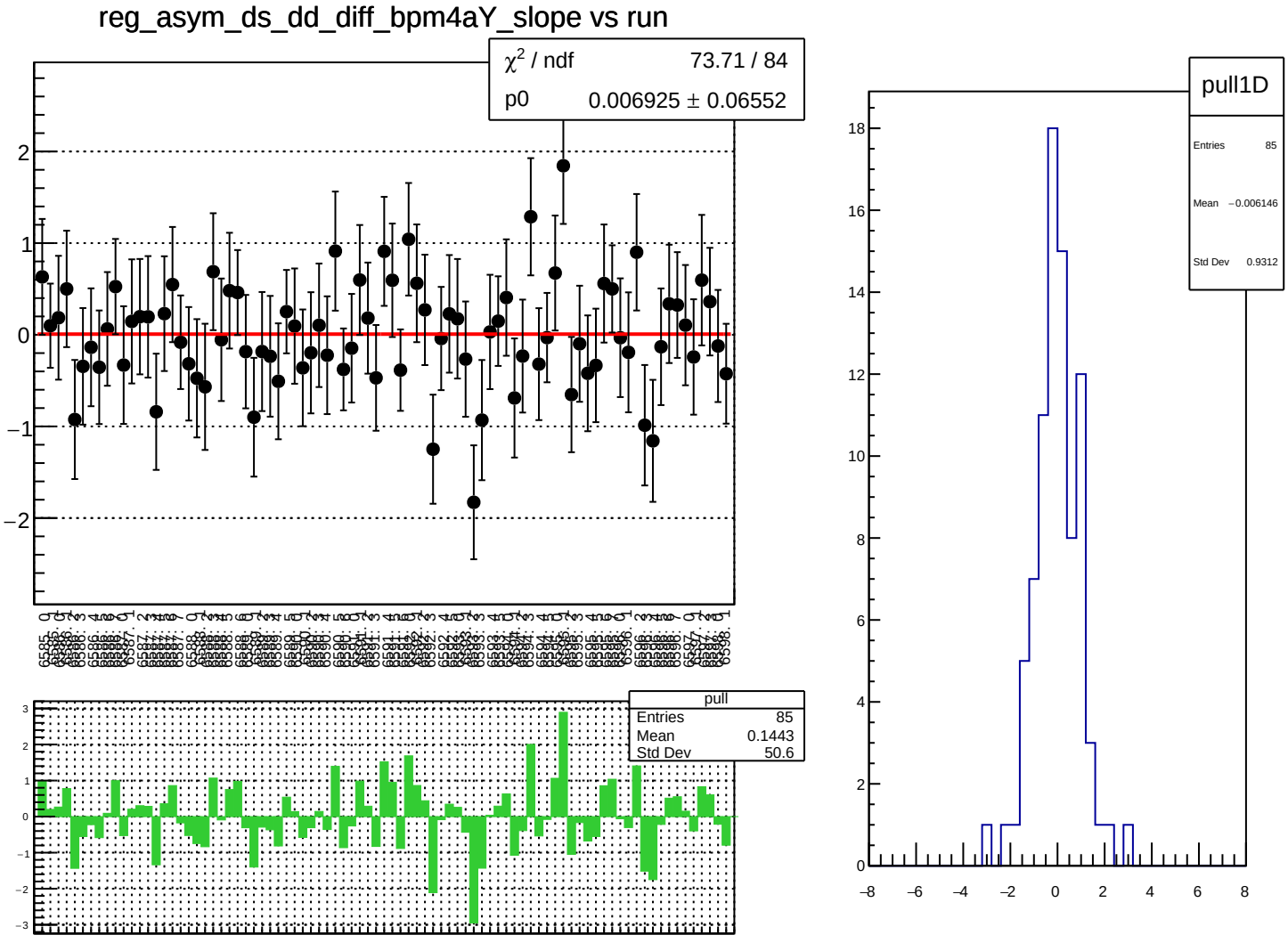

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.4 / 84
p0 0.04034 ± 0.09689
pull
Entries 85
Mean −127.1
Std Dev 167.4
pull1D
Entries 85
Mean 0.01454
Std Dev 1.108

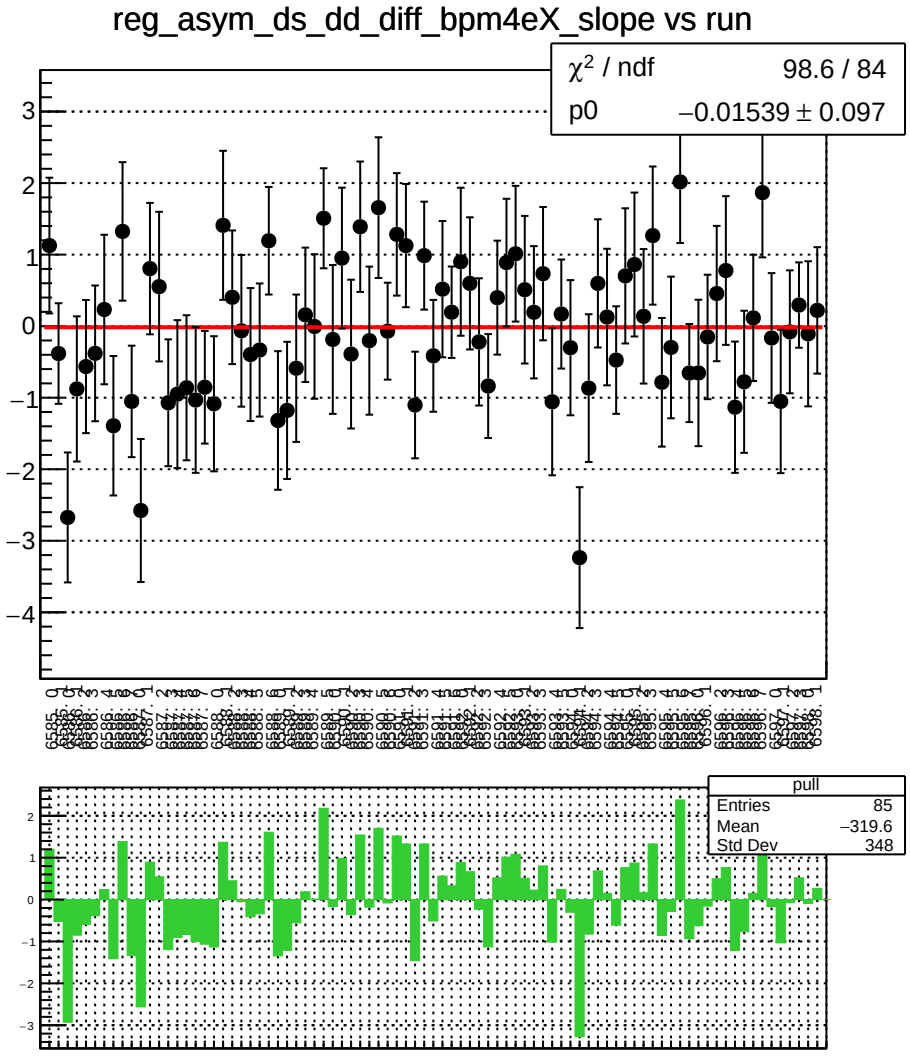

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 102.3 / 84
p0 0.1664 ± 0.0784
pull
Entries 85
Mean −1.743
Std Dev 57.74

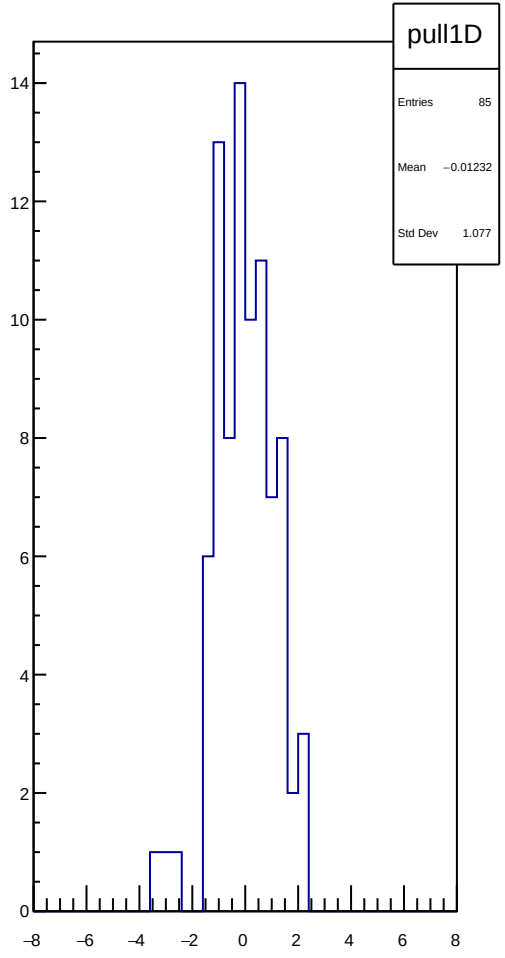

pull1D
Entries 85
Mean 0.02205
Std Dev 1.097

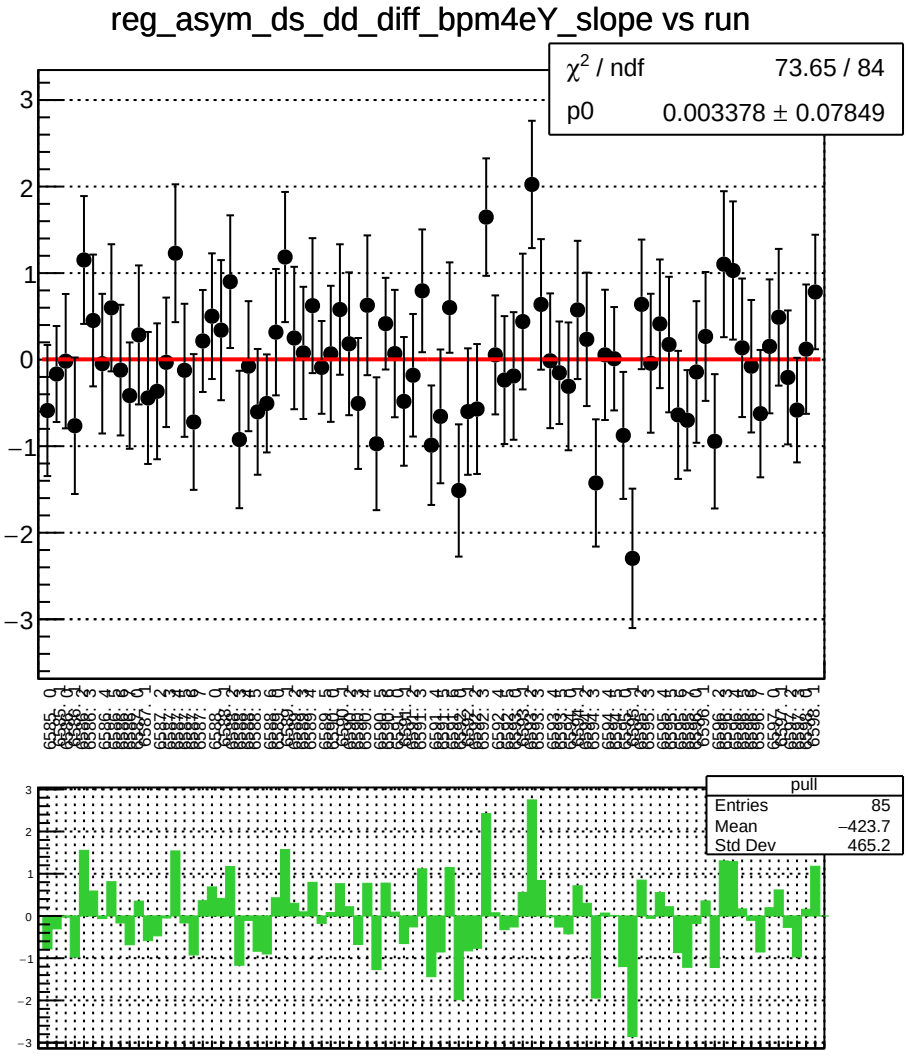

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 89.17 / 84
p0 −0.007216 ± 0.003893
pull
Entries 85
Mean 104.8
Std Dev 53.96
pull1D
Entries 85
Mean 0.008005
Std Dev 1.024

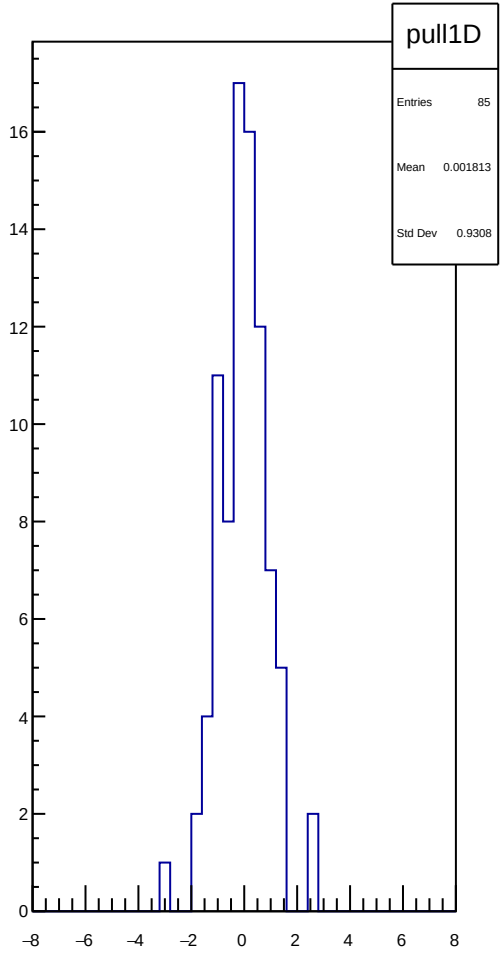

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 99.71 / 84
p0 0.03316 ± 0.09121
pull
Entries 85
Mean −432.8
Std Dev 462.3
pull1D
Entries 85
Mean 0.01013
Std Dev 1.083

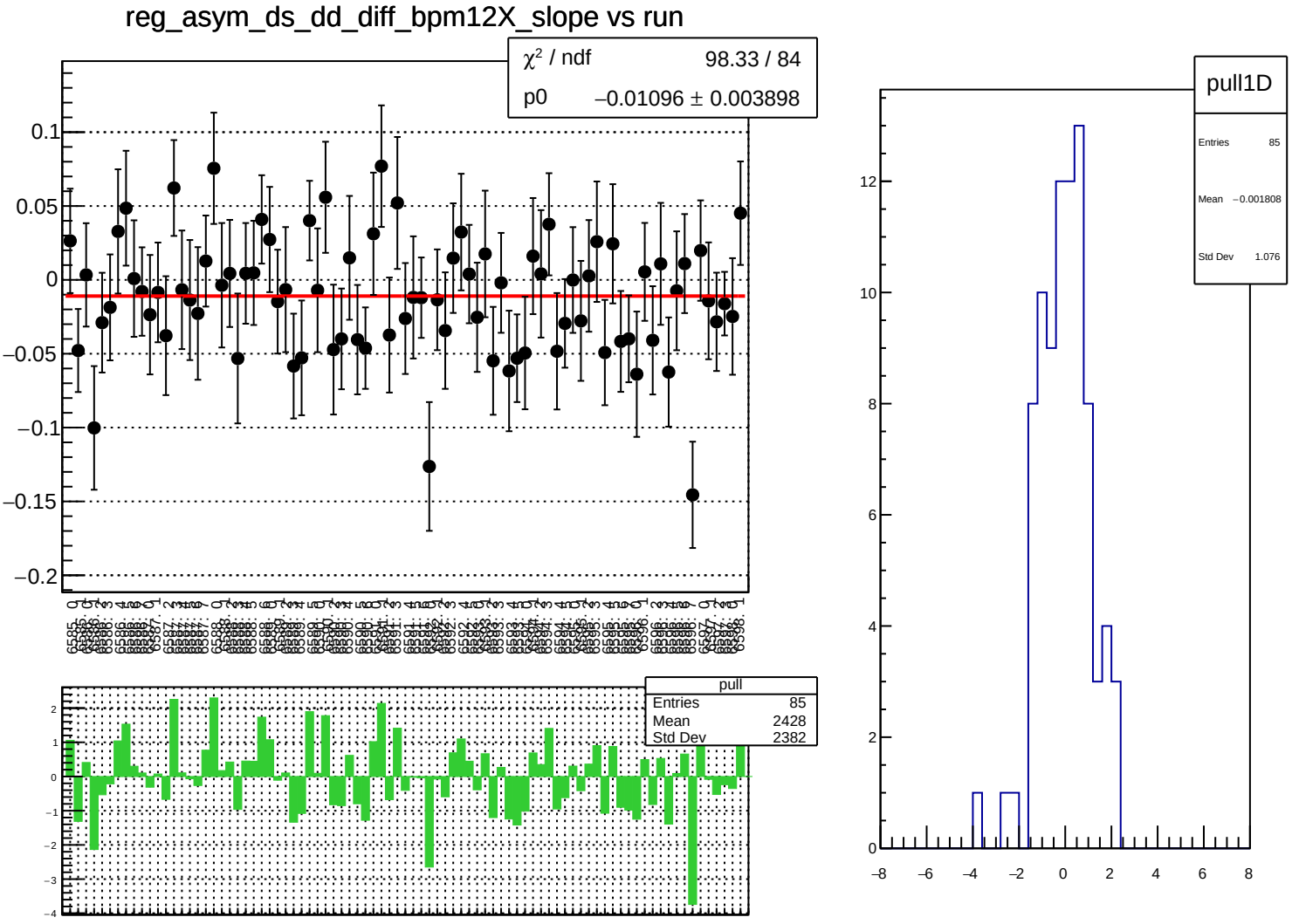

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.71 / 84
p0 0.006925 ± 0.06552
pull
Entries 85
Mean 0.1443
Std Dev 50.6
pull1D
Entries 85
Mean −0.006146
Std Dev 0.9312

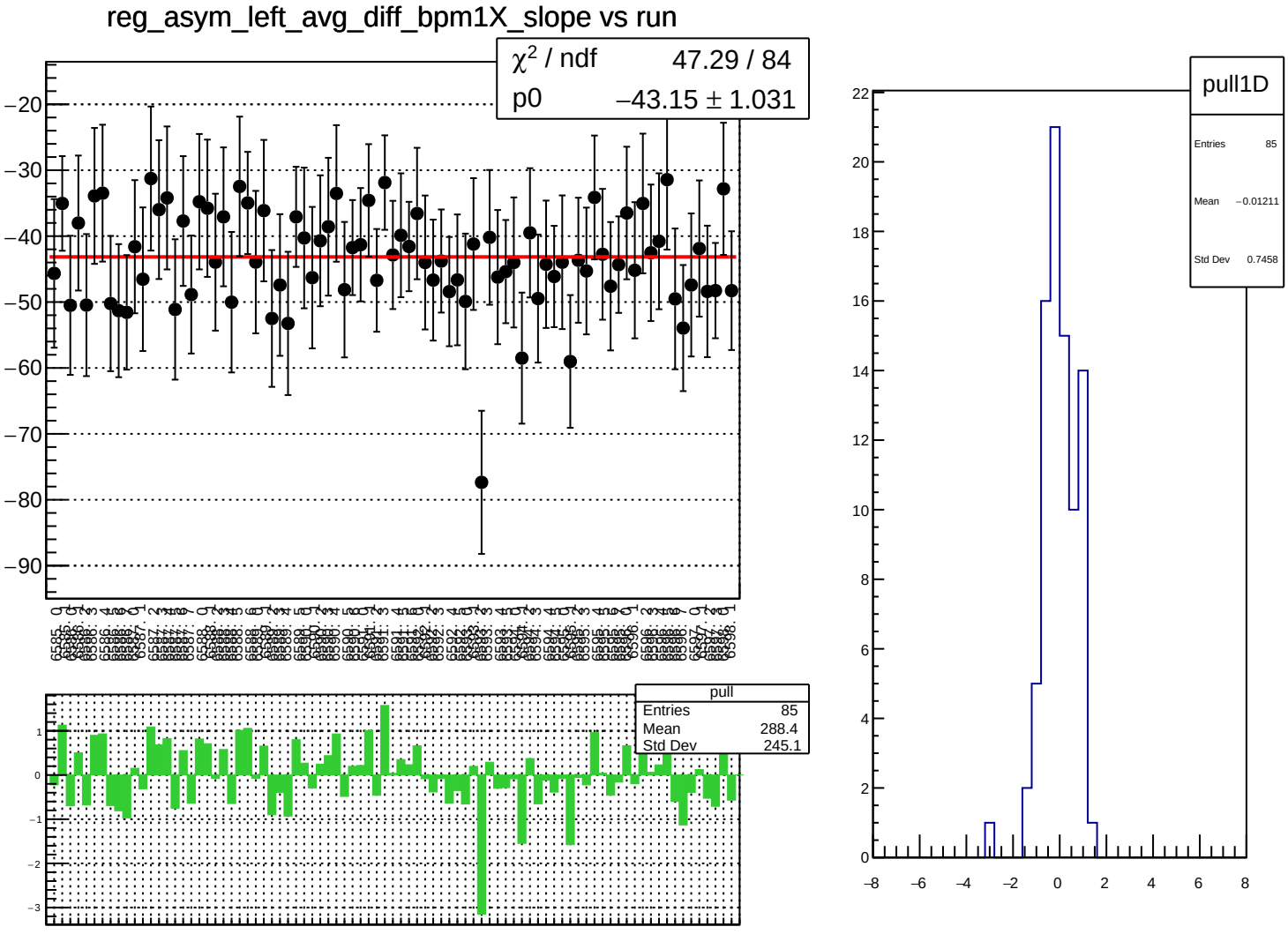

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.6 / 84
p0 −0.01539 ± 0.097
pull
Entries 85
Mean −319.6
Std Dev 348

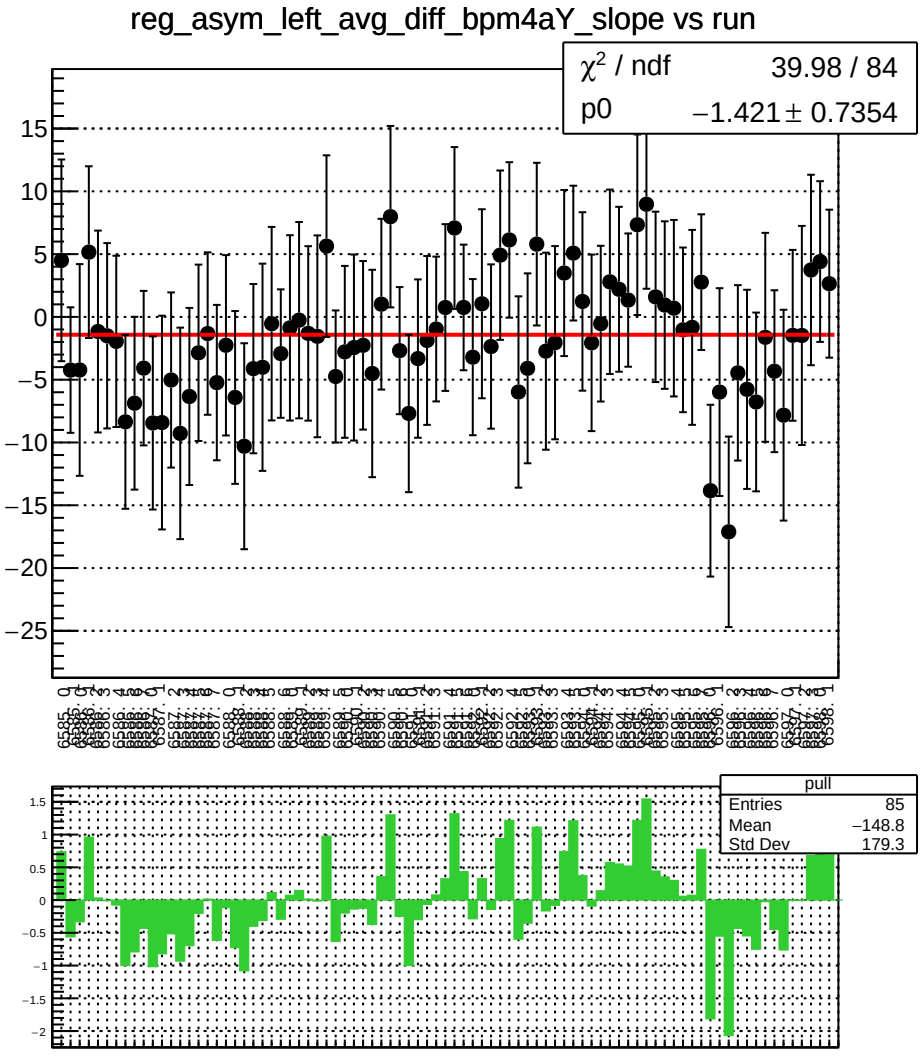

pull1D
Entries 85
Mean −0.01232
Std Dev 1.077

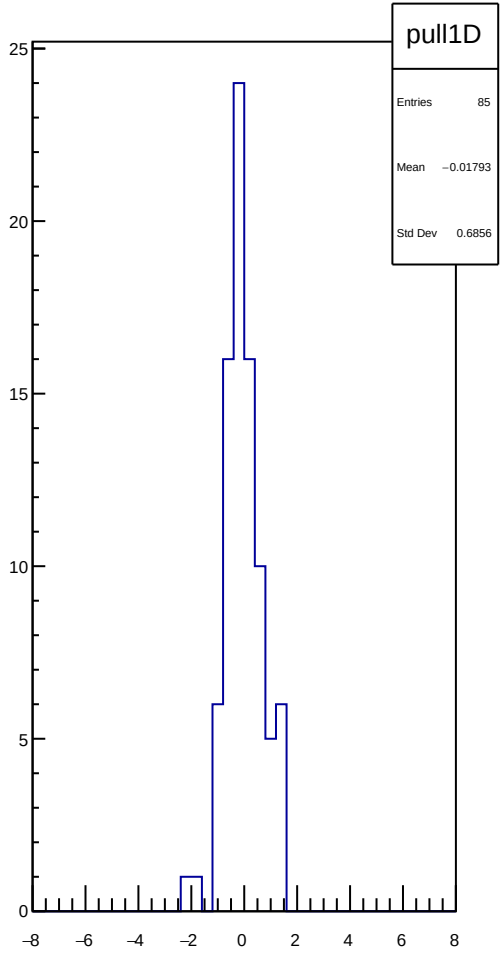

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 73.65 / 84
p0 0.003378 ± 0.07849
pull
Entries 85
Mean −423.7
Std Dev 465.2

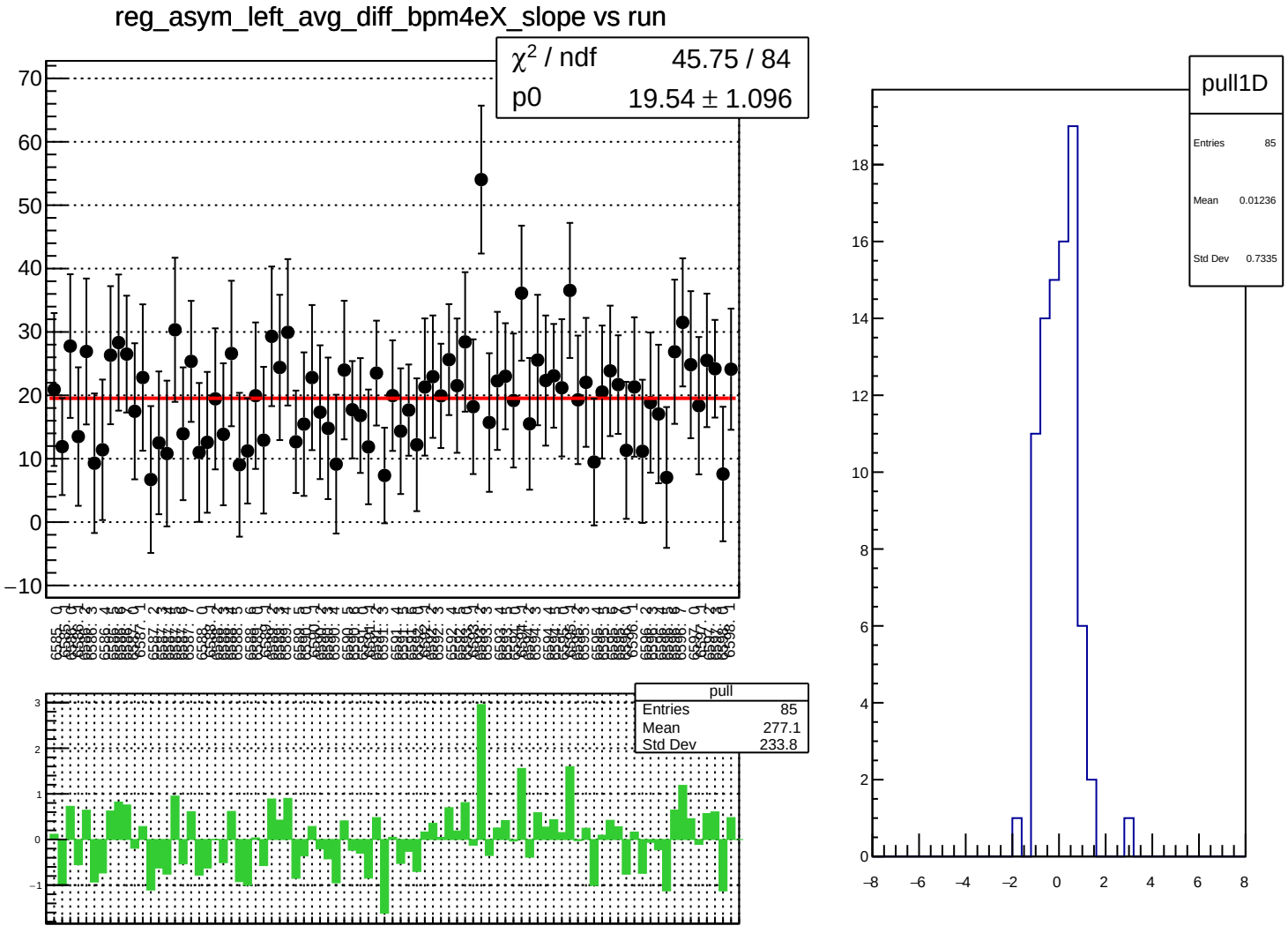

pull1D
Entries 85
Mean 0.001813
Std Dev 0.9308

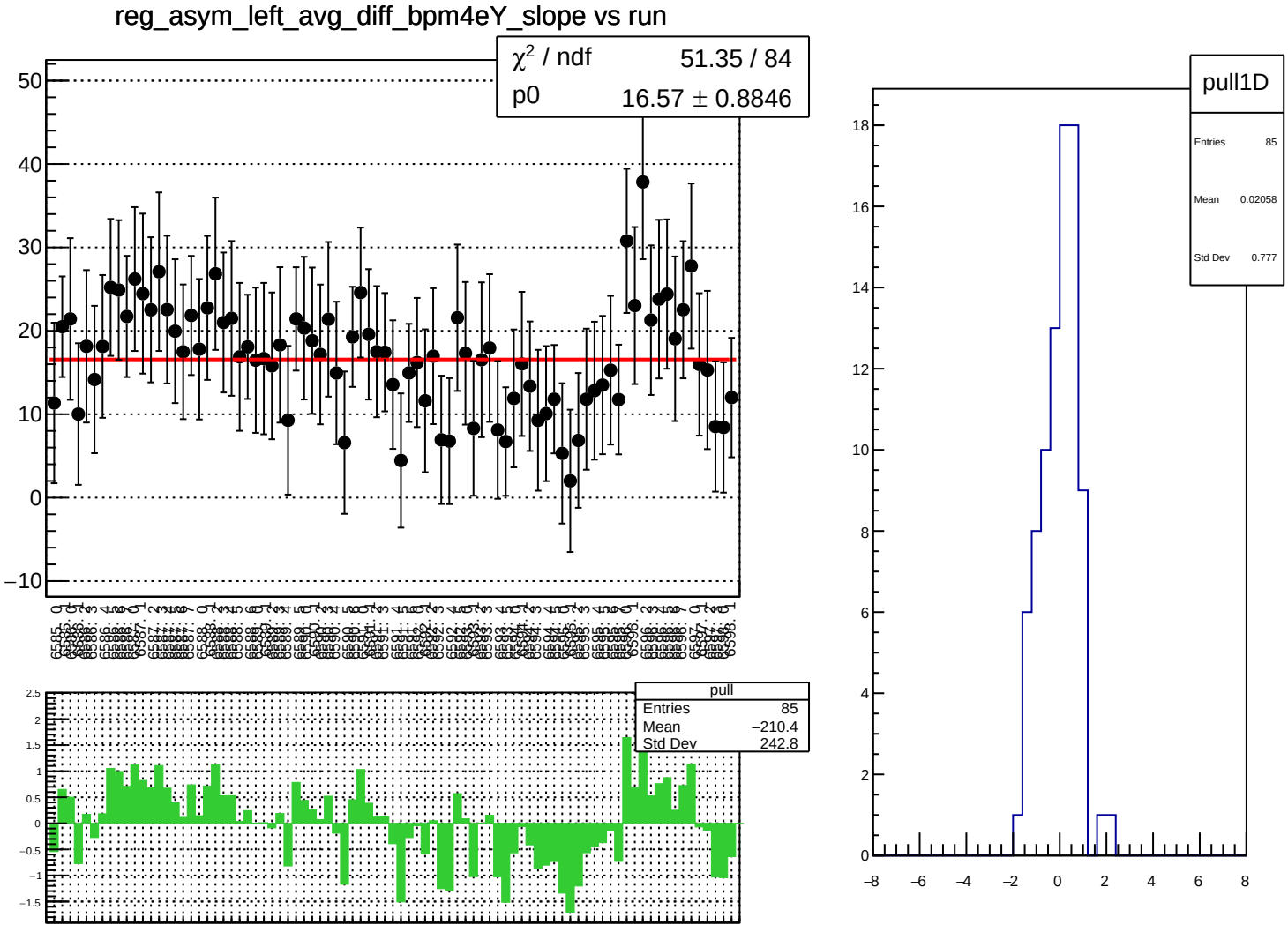

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 98.33 / 84
p0 −0.01096 ± 0.003898
pull
Entries 85
Mean 2428
Std Dev 2382
pull1D
Entries 85
Mean −0.001808
Std Dev 1.076

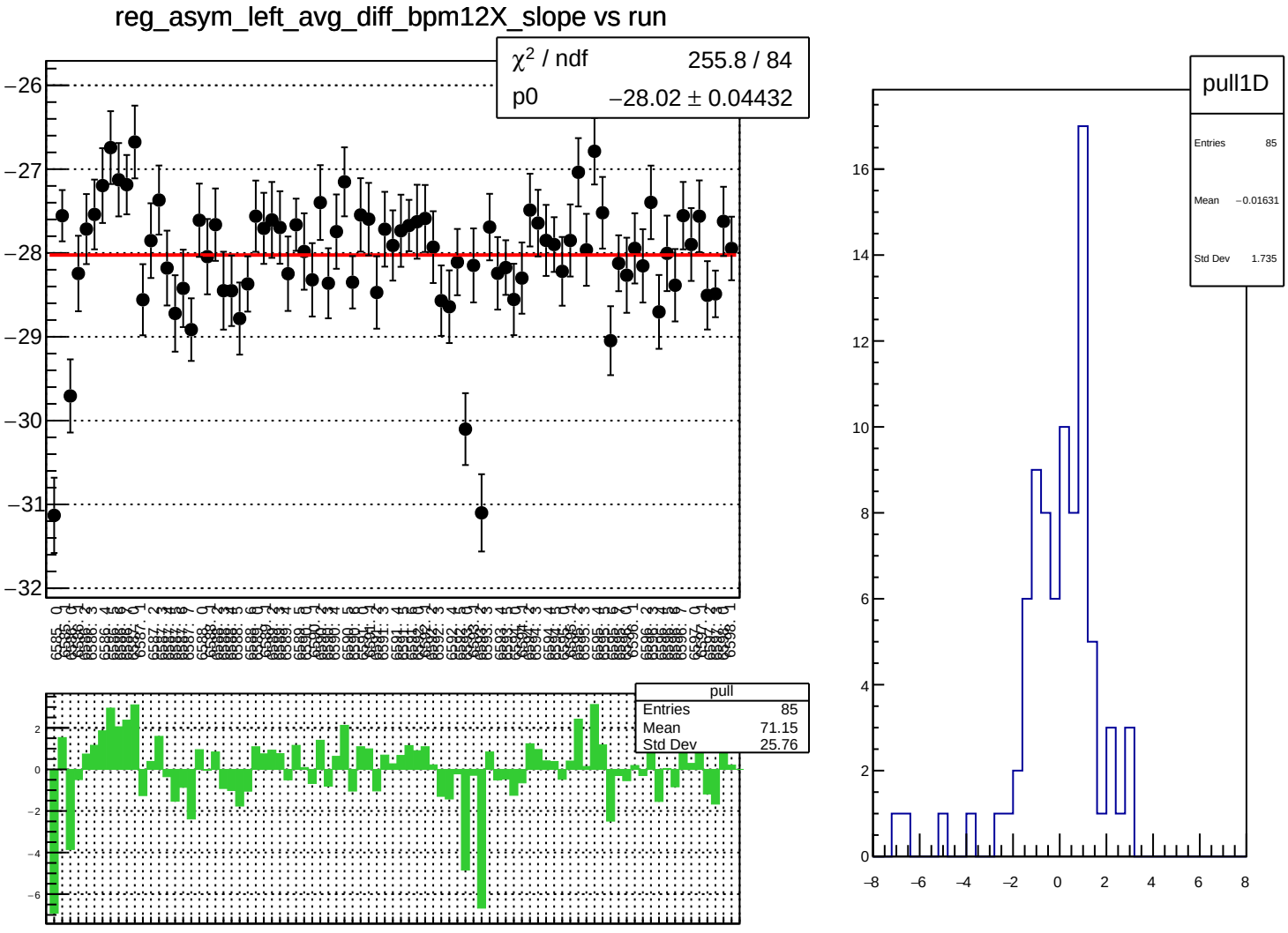

reg_asym_left_avg_diff_bpm1X_slope vs run
χ^2 / ndf 47.29 / 84
p0 −43.15 ± 1.031
pull
Entries 85
Mean 288.4
Std Dev 245.1
pull1D
Entries 85
Mean −0.01211
Std Dev 0.7458

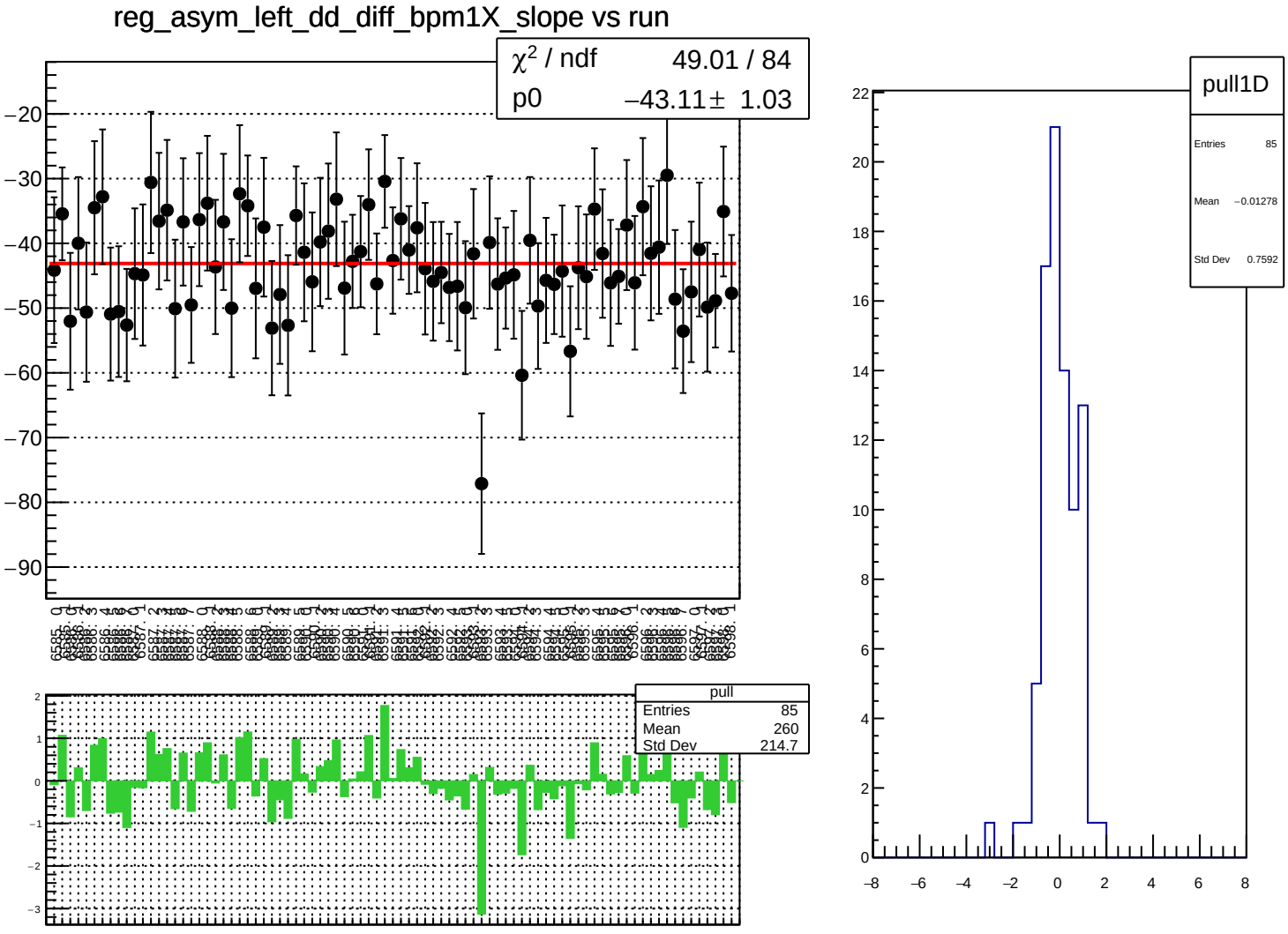

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 39.98 / 84
p0 −1.421 ± 0.7354
pull
Entries 85
Mean −148.8
Std Dev 179.3

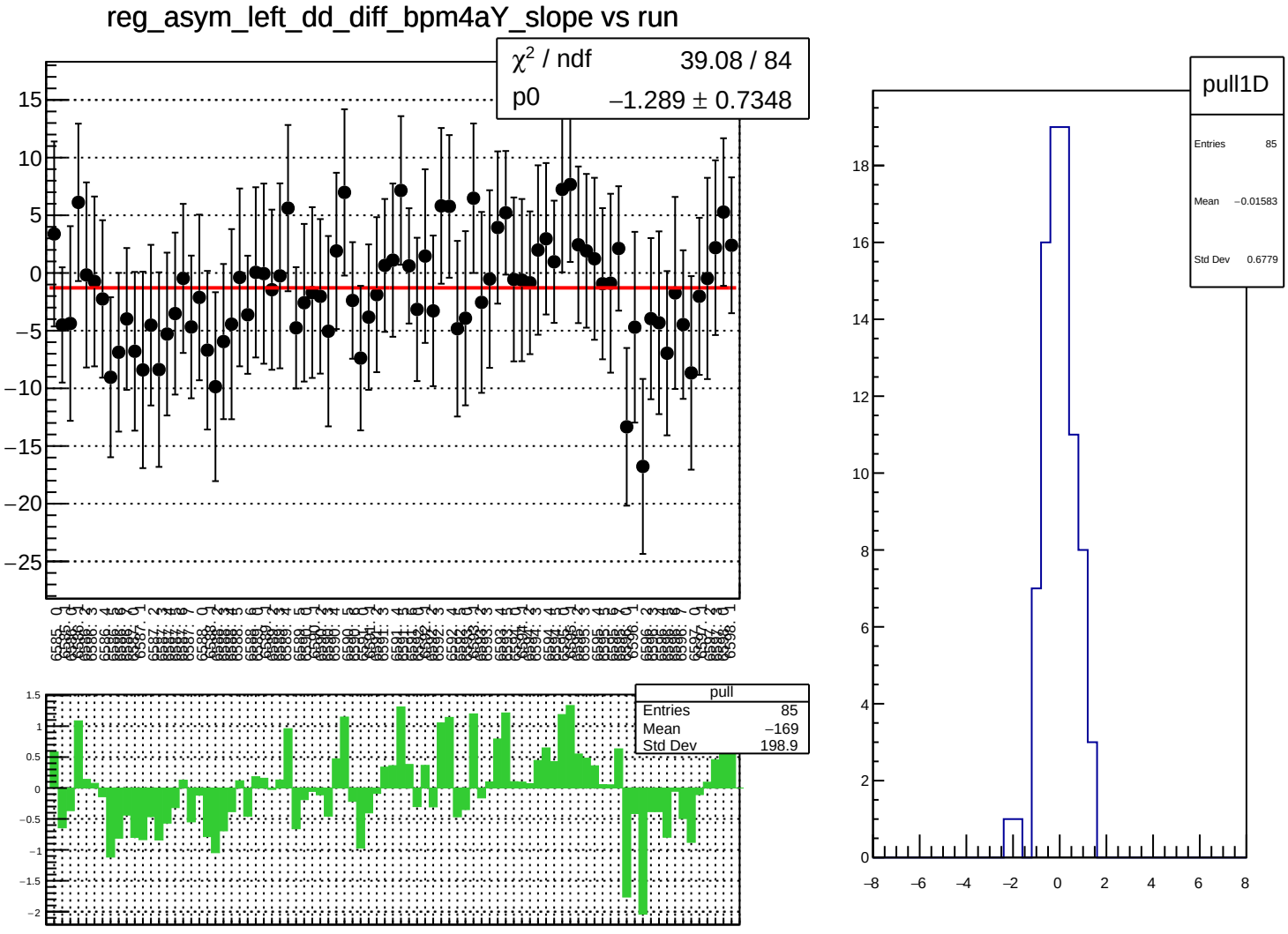

pull1D
Entries 85
Mean −0.01793
Std Dev 0.6856

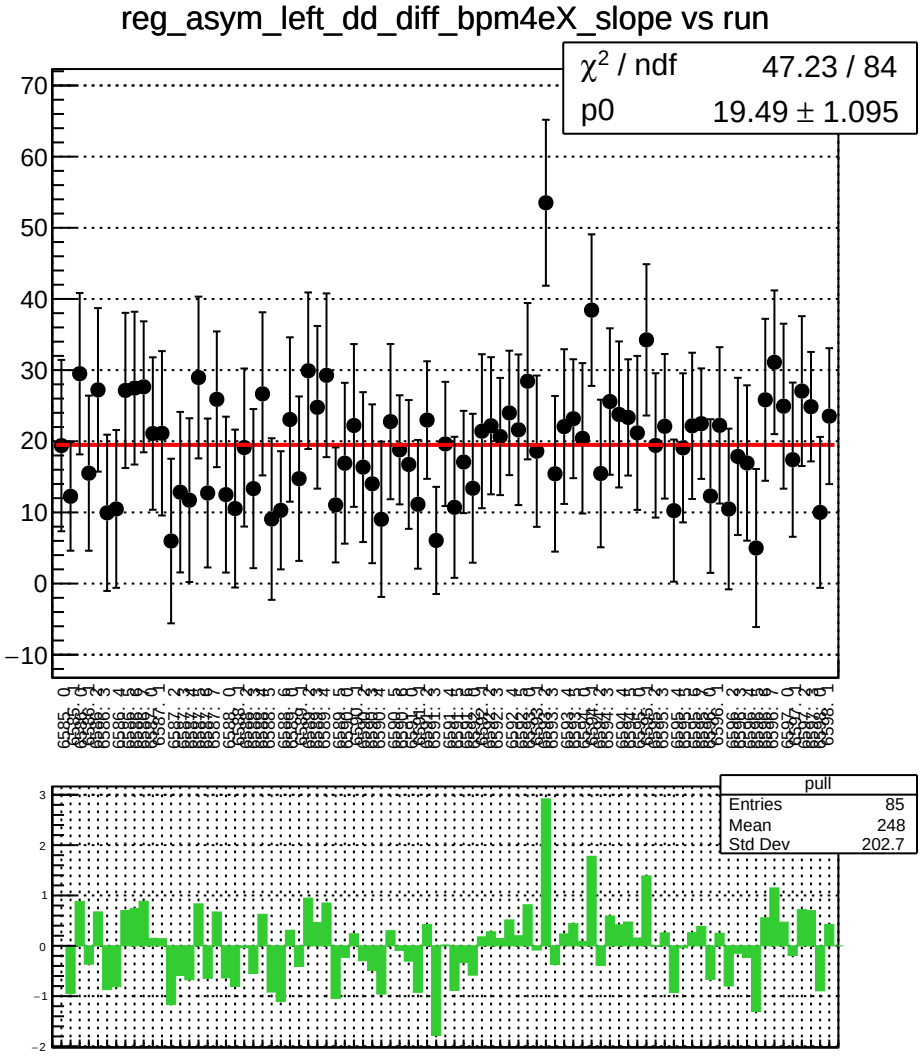

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 45.75 / 84
p0 19.54 ± 1.096
pull
Entries 85
Mean 277.1
Std Dev 233.8
pull1D
Entries 85
Mean 0.01236
Std Dev 0.7335

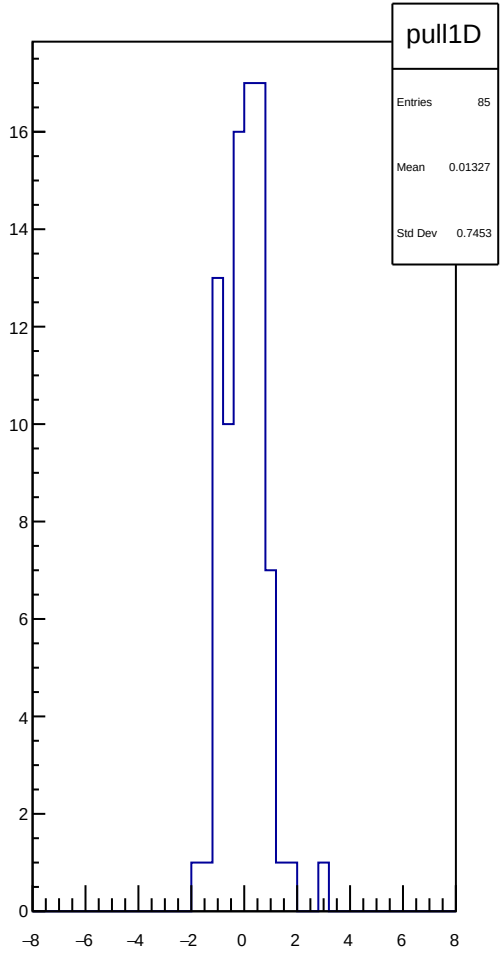

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.35 / 84
p0 16.57 ± 0.8846
pull
Entries 85
Mean −210.4
Std Dev 242.8
pull1D
Entries 85
Mean 0.02058
Std Dev 0.777

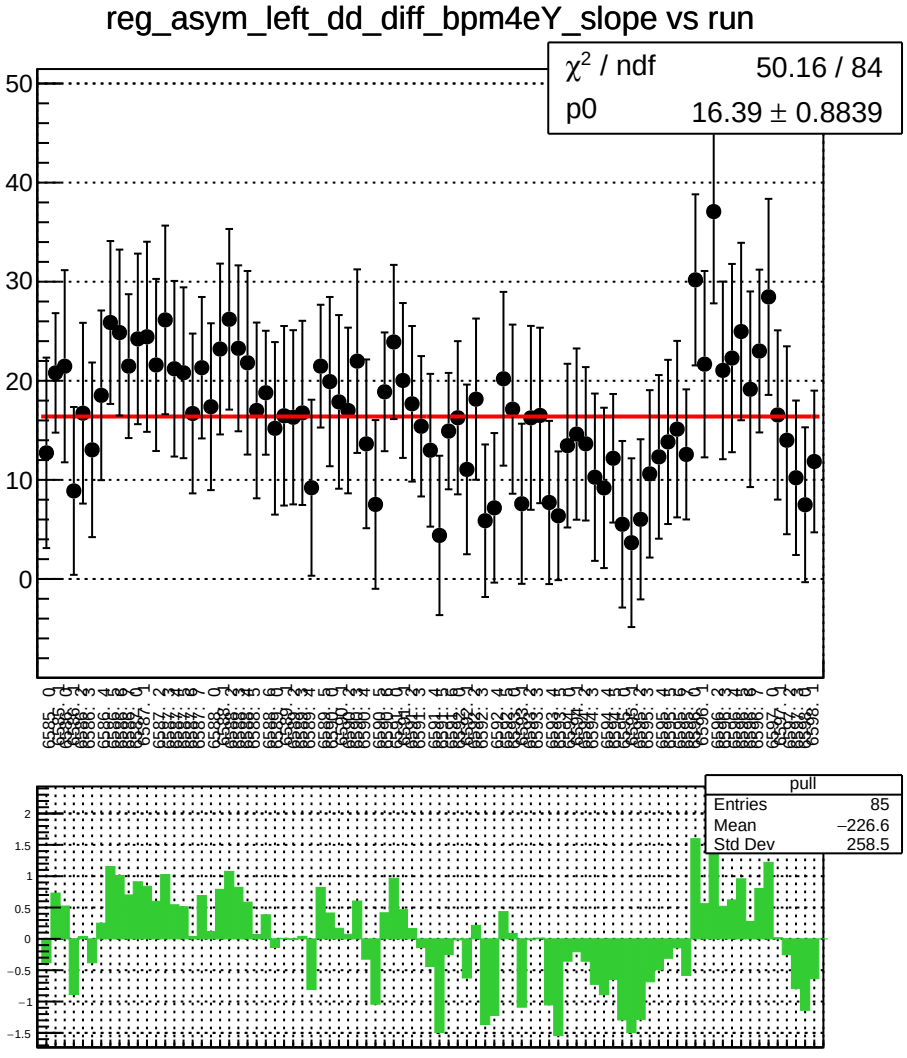

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 255.8 / 84
p0 −28.02 ± 0.04432
pull
Entries 85
Mean 71.15
Std Dev 25.76
pull1D
Entries 85
Mean −0.01631
Std Dev 1.735

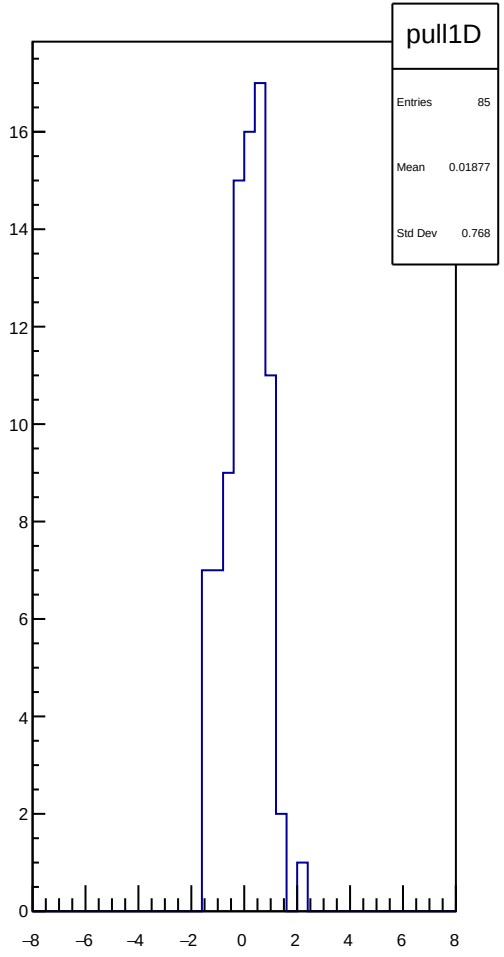

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 49.01 / 84
p0 −43.11 ± 1.03
pull
Entries 85
Mean 260
Std Dev 214.7
pull1D
Entries 85
Mean −0.01278
Std Dev 0.7592

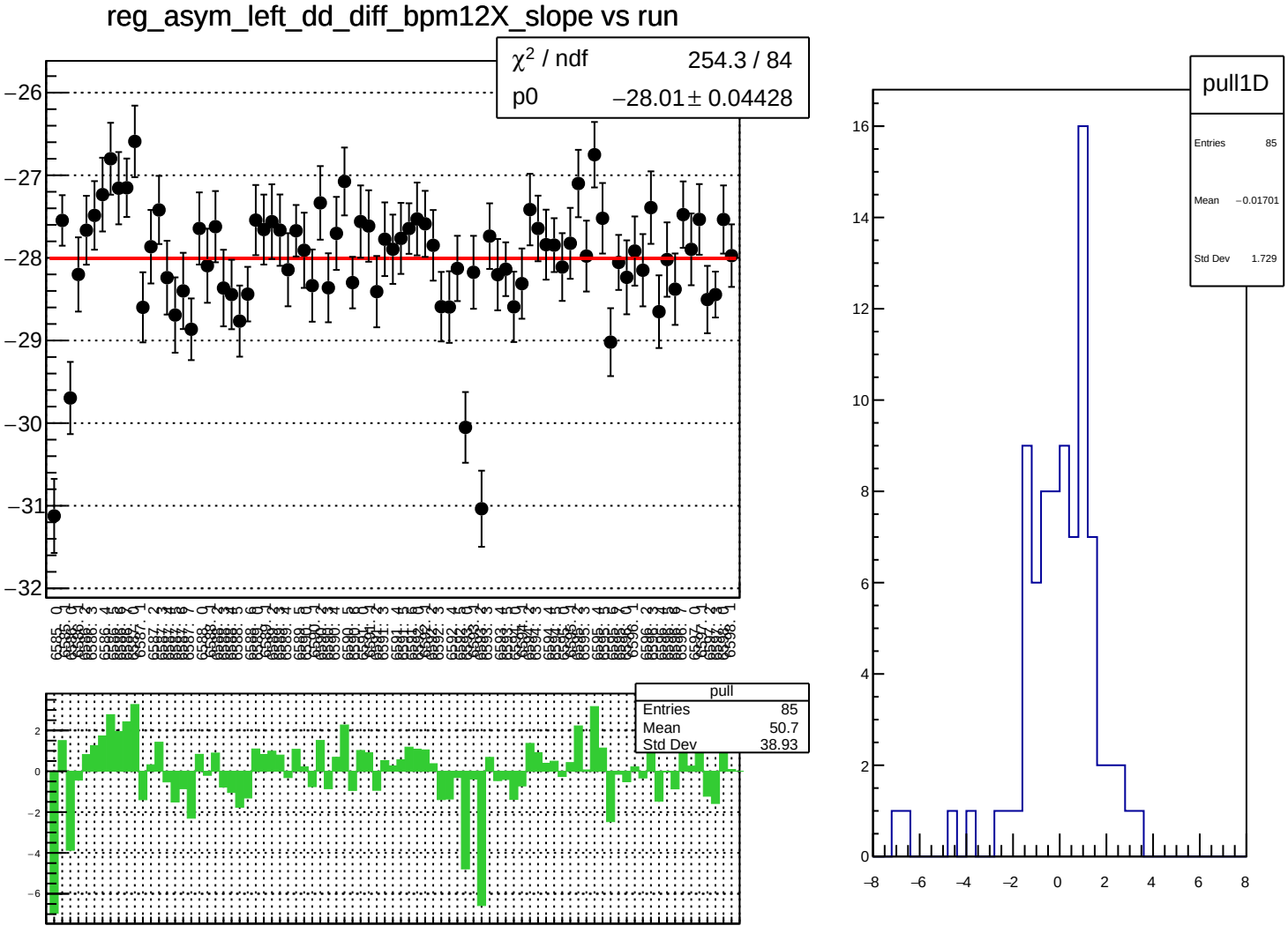

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.08 / 84
p0 −1.289 ± 0.7348
pull
Entries 85
Mean −169
Std Dev 198.9
pull1D
Entries 85
Mean −0.01583
Std Dev 0.6779

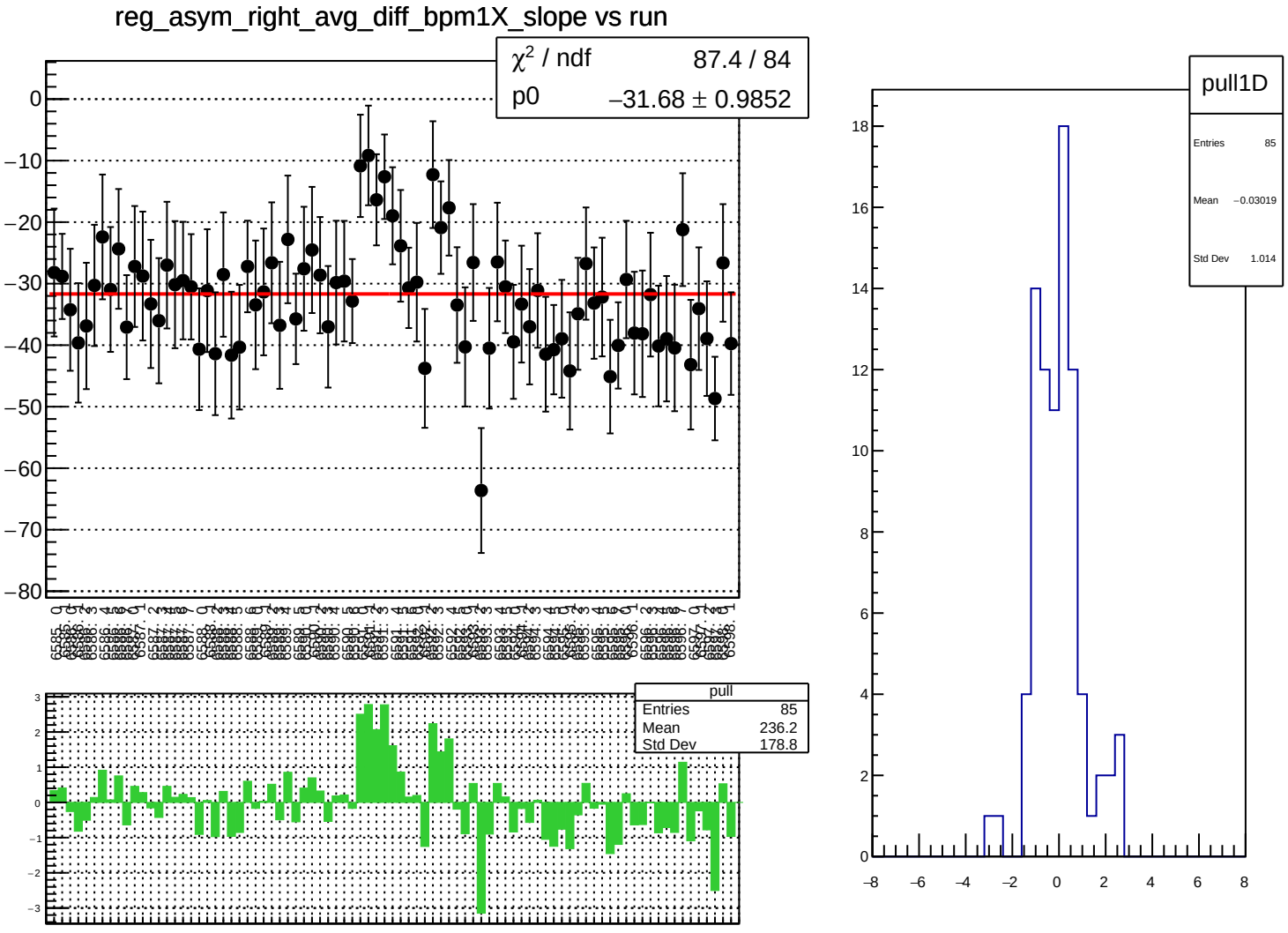

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 47.23 / 84
p0 19.49 ± 1.095
pull
Entries 85
Mean 248
Std Dev 202.7

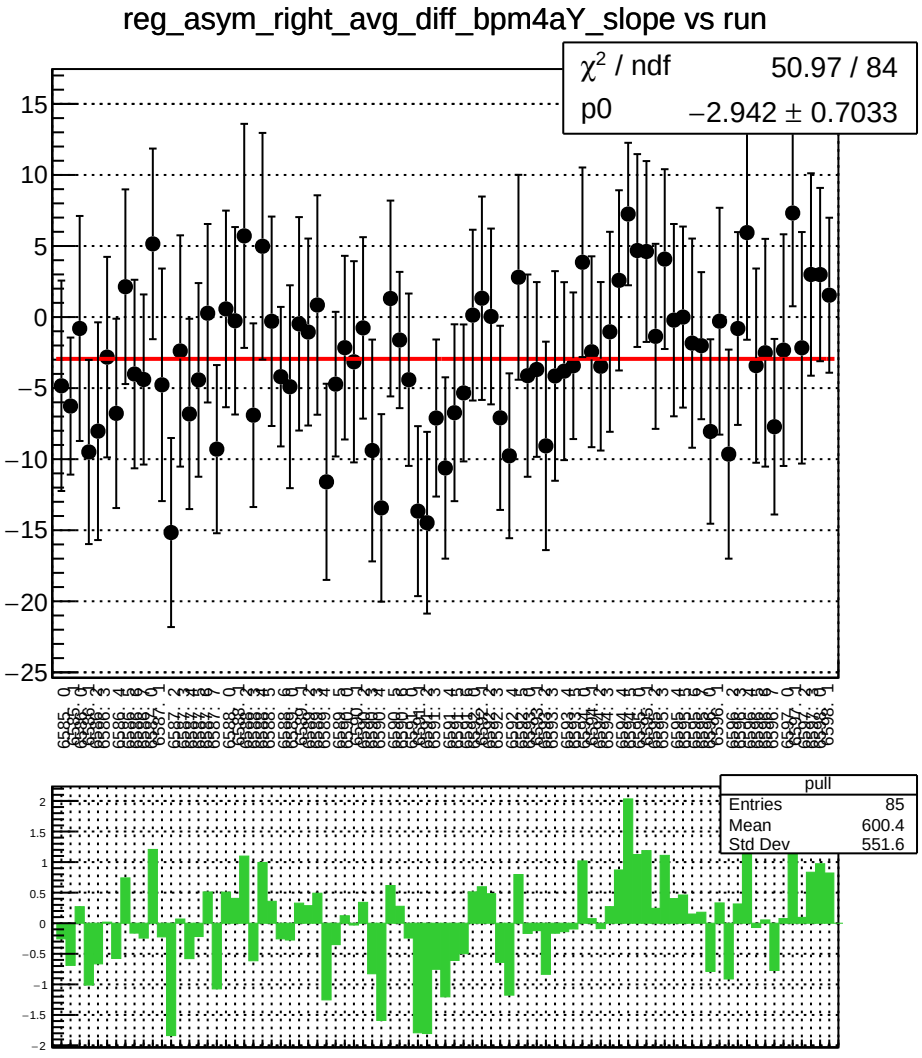

pull1D
Entries 85
Mean 0.01327
Std Dev 0.7453

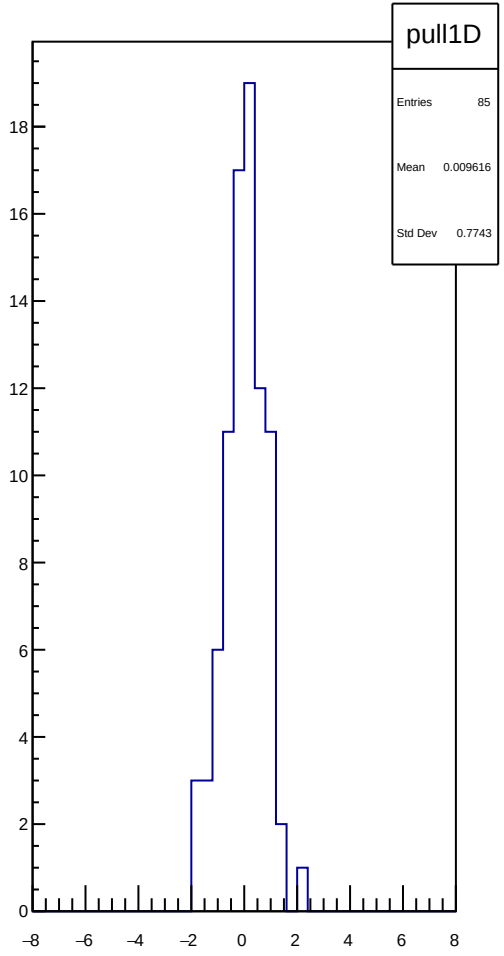

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 50.16 / 84
p0 16.39 ± 0.8839
pull
Entries 85
Mean −226.6
Std Dev 258.5

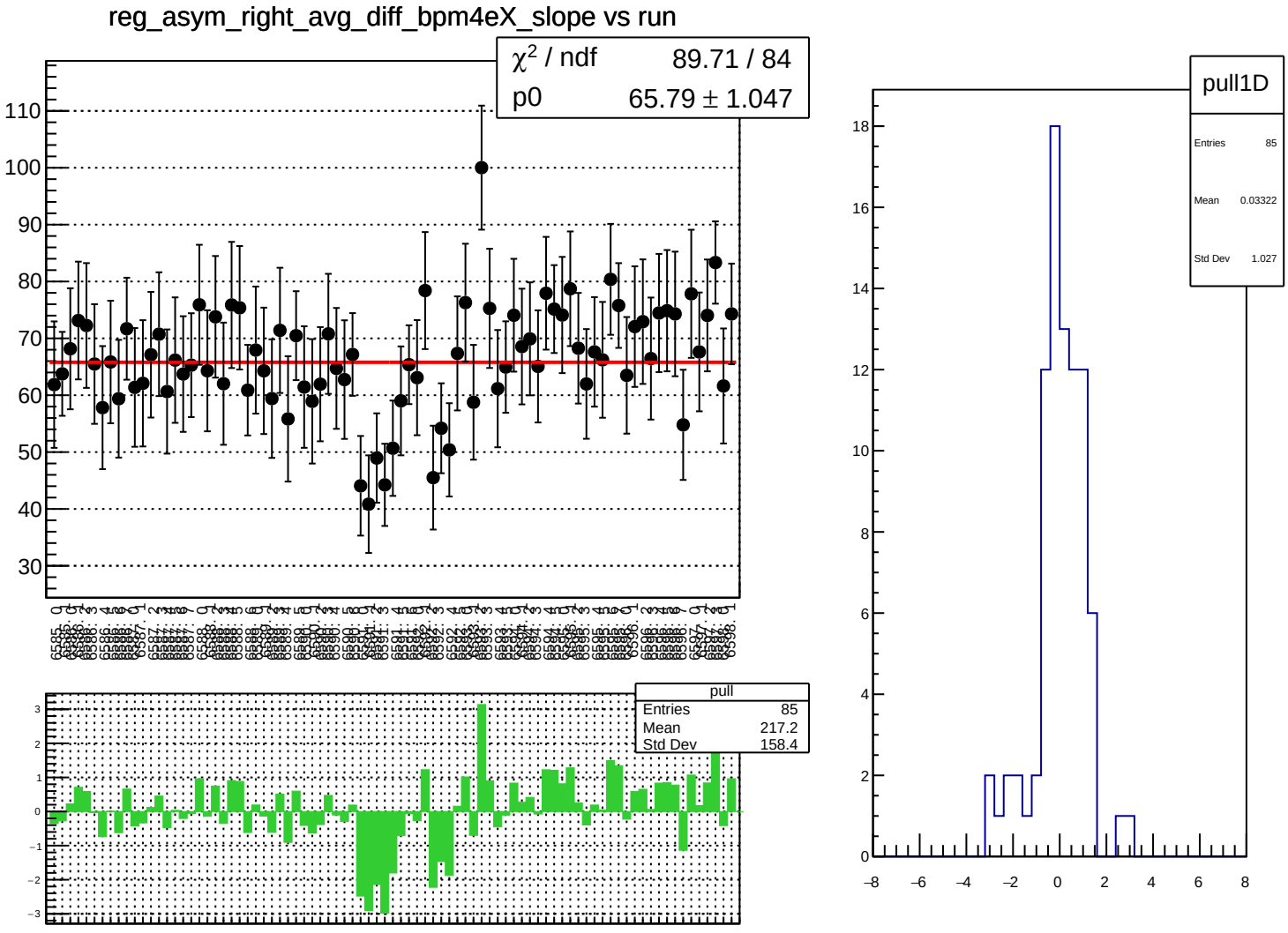

pull1D
Entries 85
Mean 0.01877
Std Dev 0.768

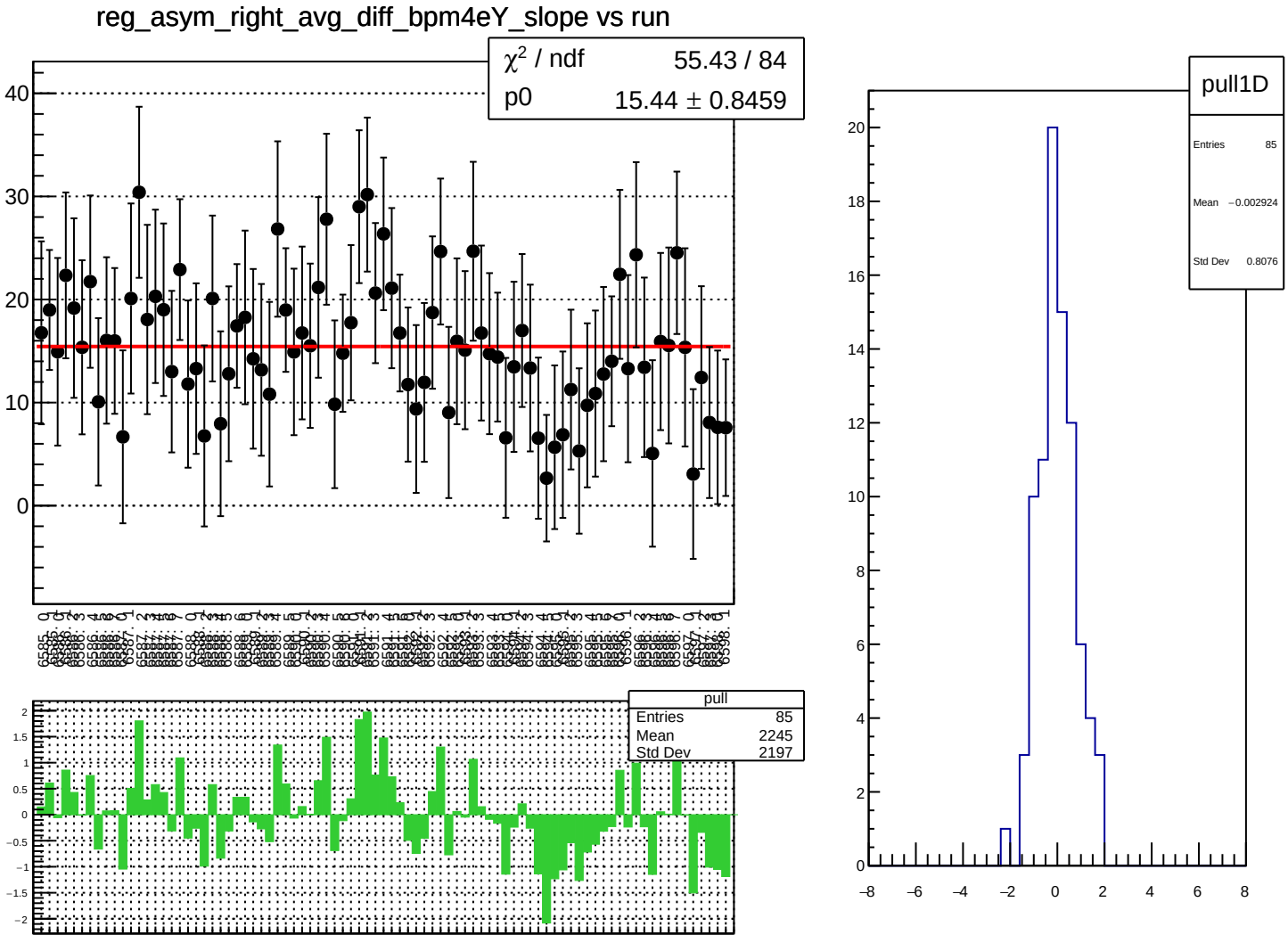

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 254.3 / 84
p0 −28.01 ± 0.04428
pull
Entries 85
Mean 50.7
Std Dev 38.93
pull1D
Entries 85
Mean −0.01701
Std Dev 1.729

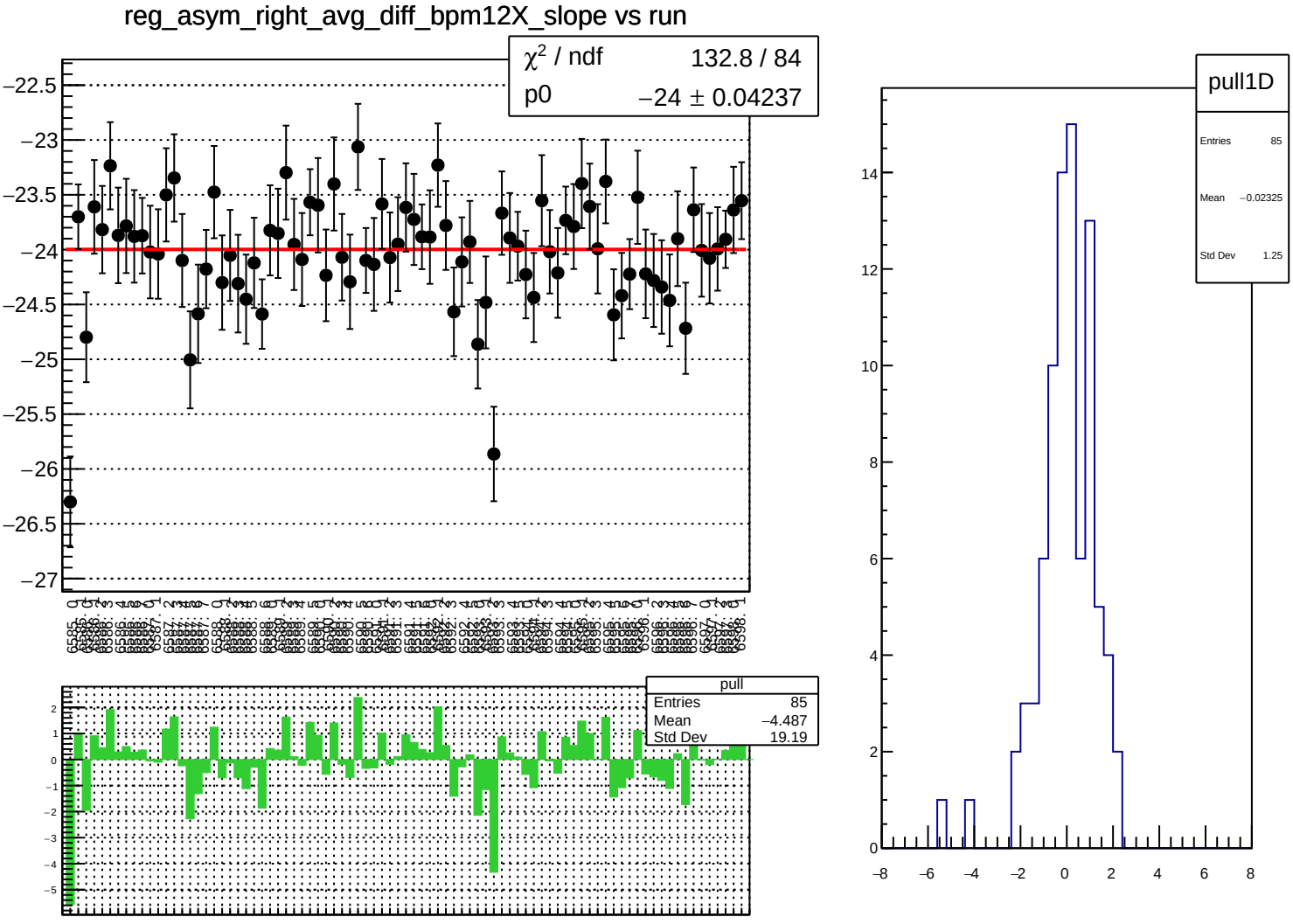

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 87.4 / 84
p0 −31.68 ± 0.9852
pull
Entries 85
Mean 236.2
Std Dev 178.8
pull1D
Entries 85
Mean −0.03019
Std Dev 1.014

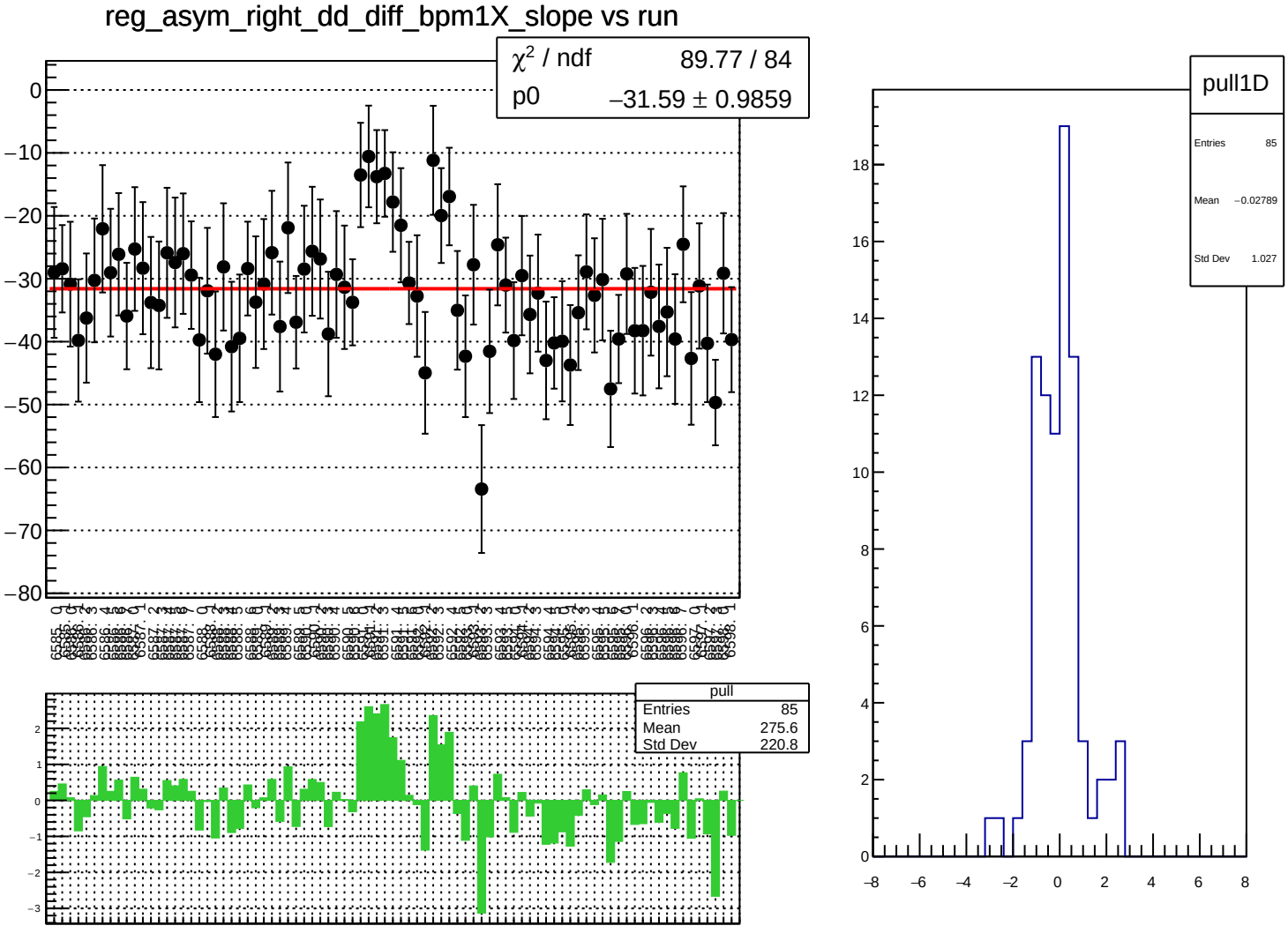

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.97 / 84
p0 −2.942 ± 0.7033
pull
Entries 85
Mean 600.4
Std Dev 551.6

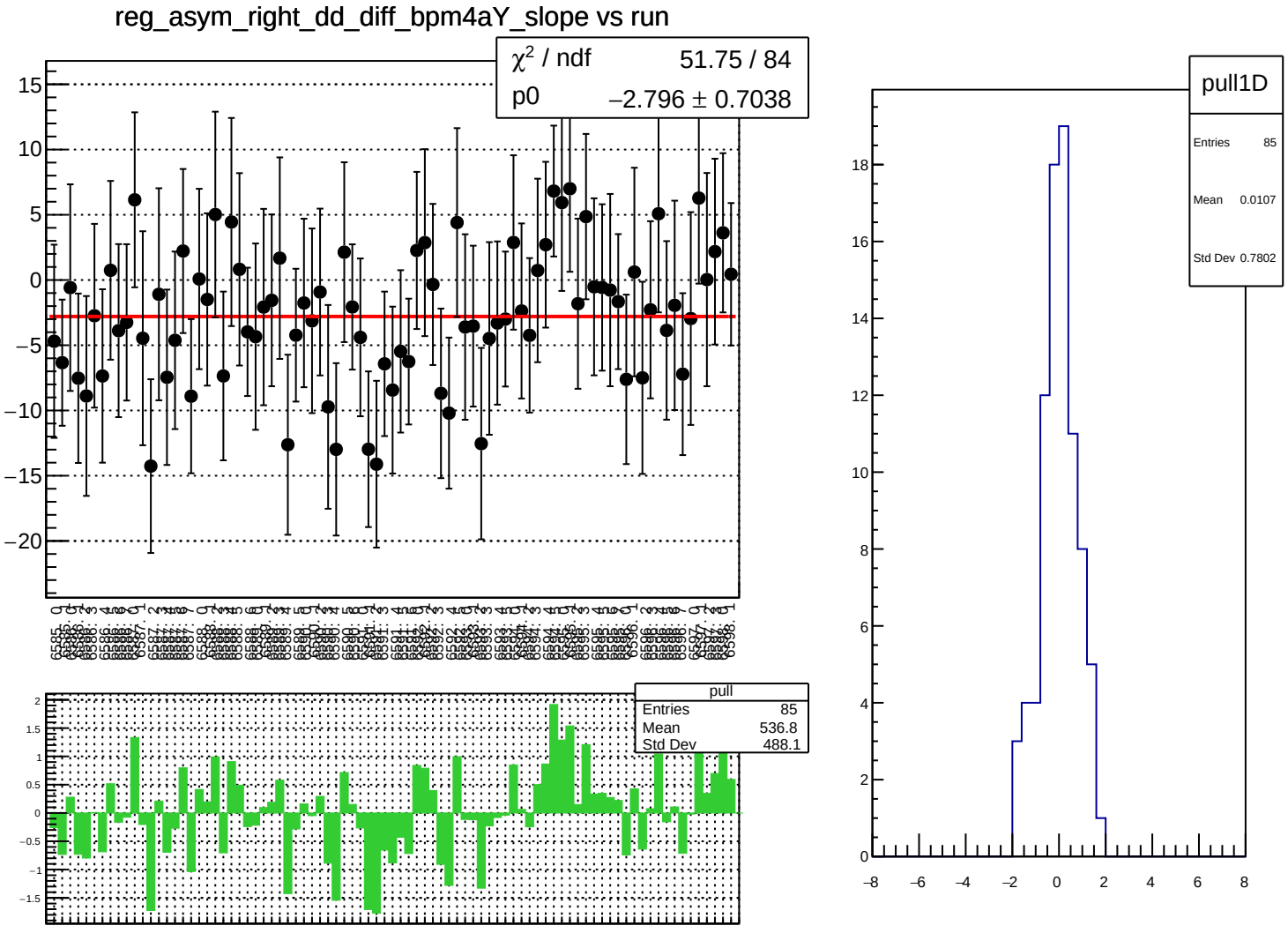

pull1D
Entries 85
Mean 0.009616
Std Dev 0.7743

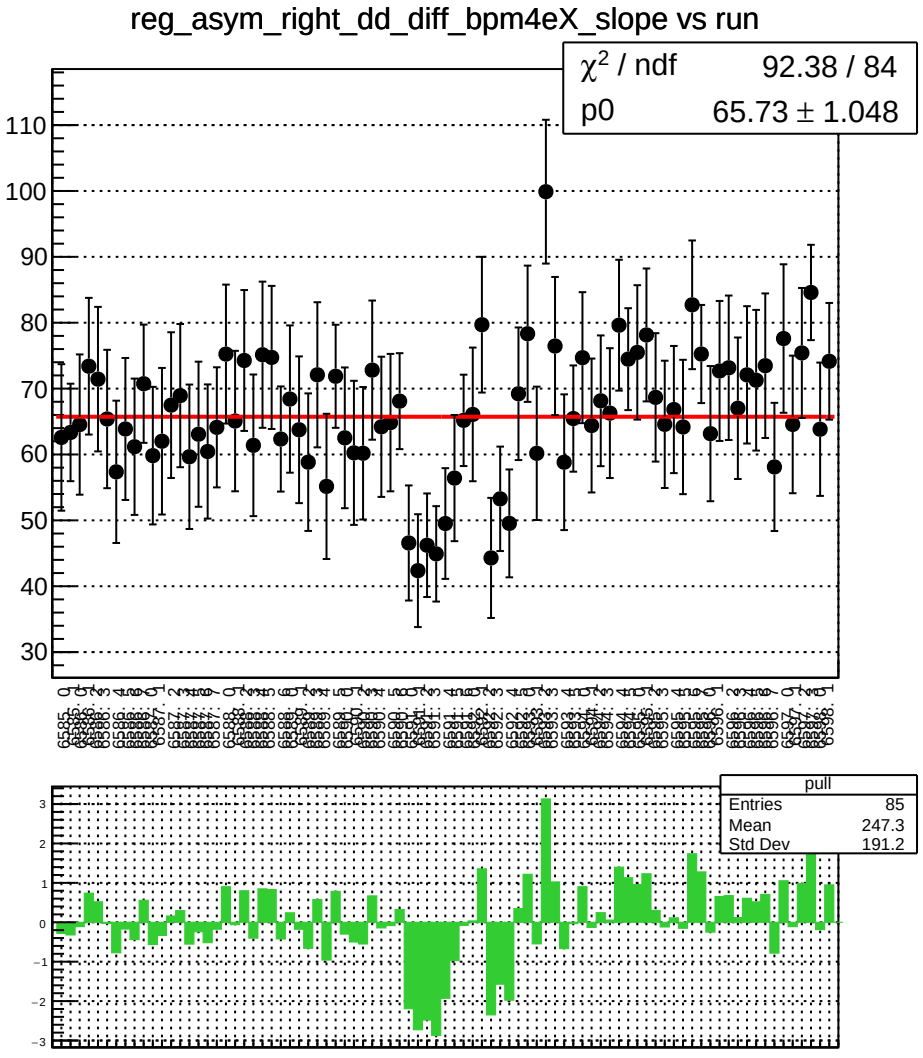

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 89.71 / 84
p0 65.79 ± 1.047
pull
Entries 85
Mean 217.2
Std Dev 158.4
pull1D
Entries 85
Mean 0.03322
Std Dev 1.027

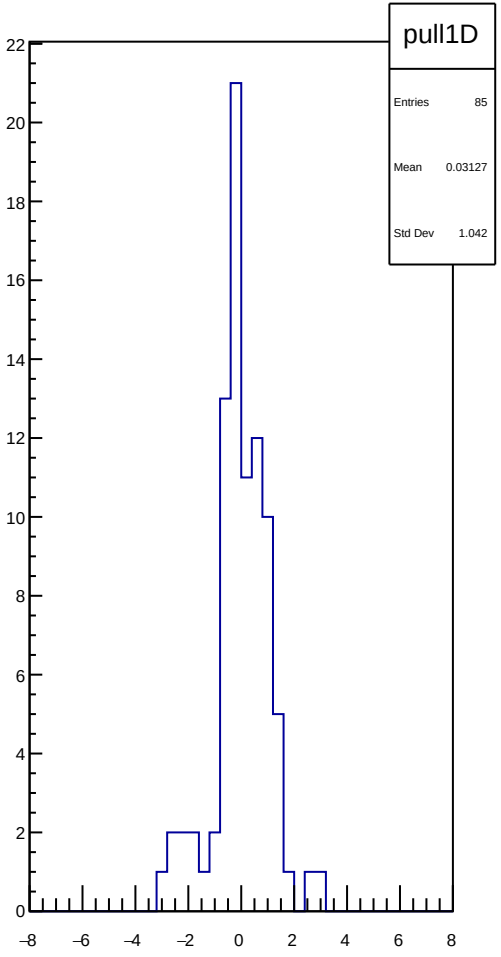

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 55.43 / 84
p0 15.44 ± 0.8459
pull
Entries 85
Mean 2245
Std Dev 2197
pull1D
Entries 85
Mean −0.002924
Std Dev 0.8076

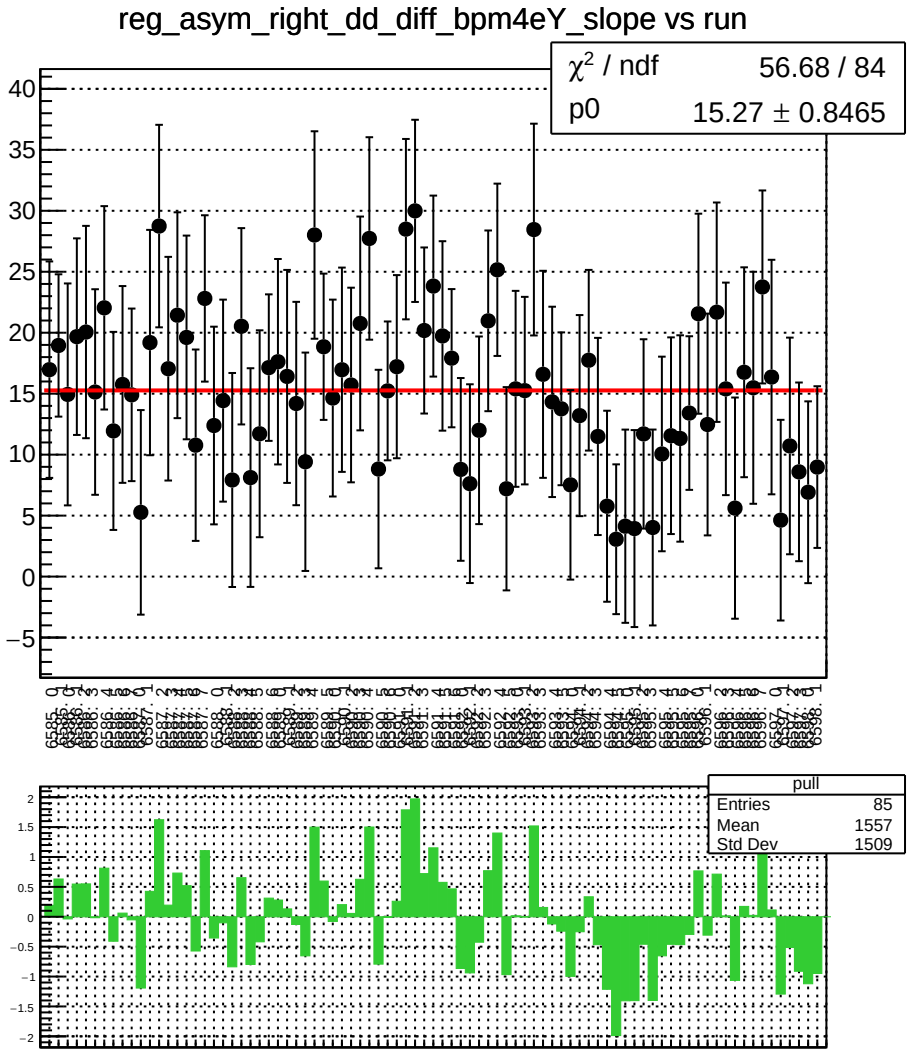

reg_asym_right_avg_diff_bpm12X_slope vs run
χ^2 / ndf 132.8 / 84
p0 −24 ± 0.04237
pull
Entries 85
Mean −4.487
Std Dev 19.19
pull1D
Entries 85
Mean −0.02325
Std Dev 1.25

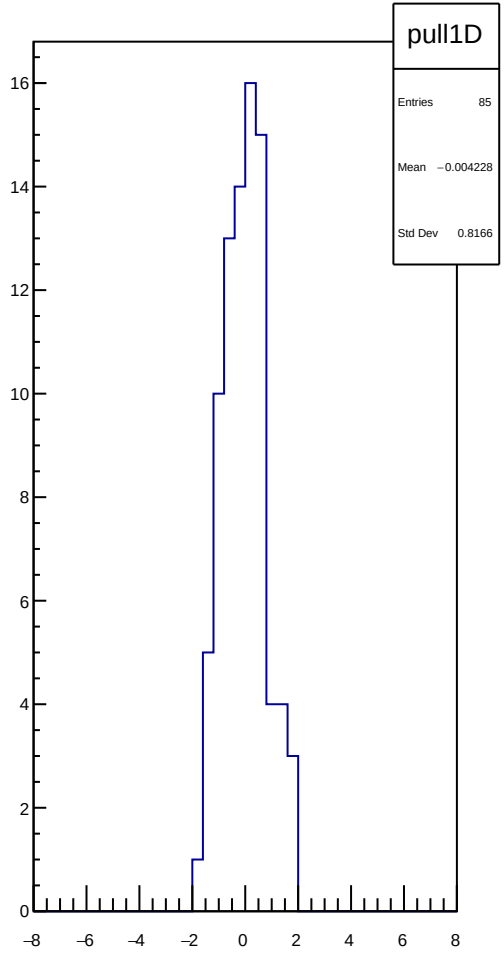

reg_asym_right_dd_diff_bpm1X_slope vs run
χ^2 / ndf 89.77 / 84
p0 −31.59 ± 0.9859
pull
Entries 85
Mean 275.6
Std Dev 220.8
pull1D
Entries 85
Mean −0.02789
Std Dev 1.027

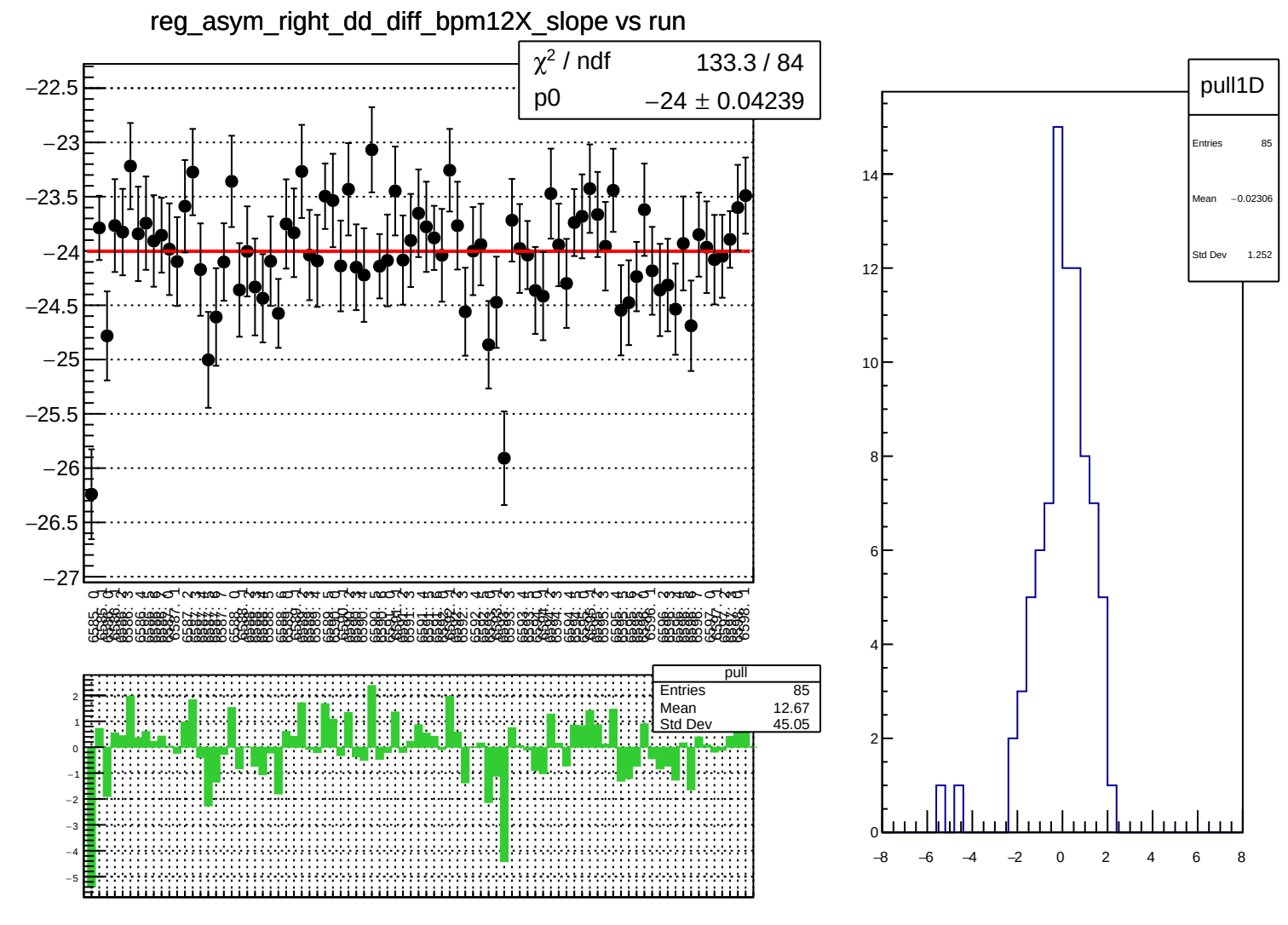

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.75 / 84
p0 −2.796 ± 0.7038
pull
Entries 85
Mean 536.8
Std Dev 488.1
pull1D
Entries 85
Mean 0.0107
Std Dev 0.7802

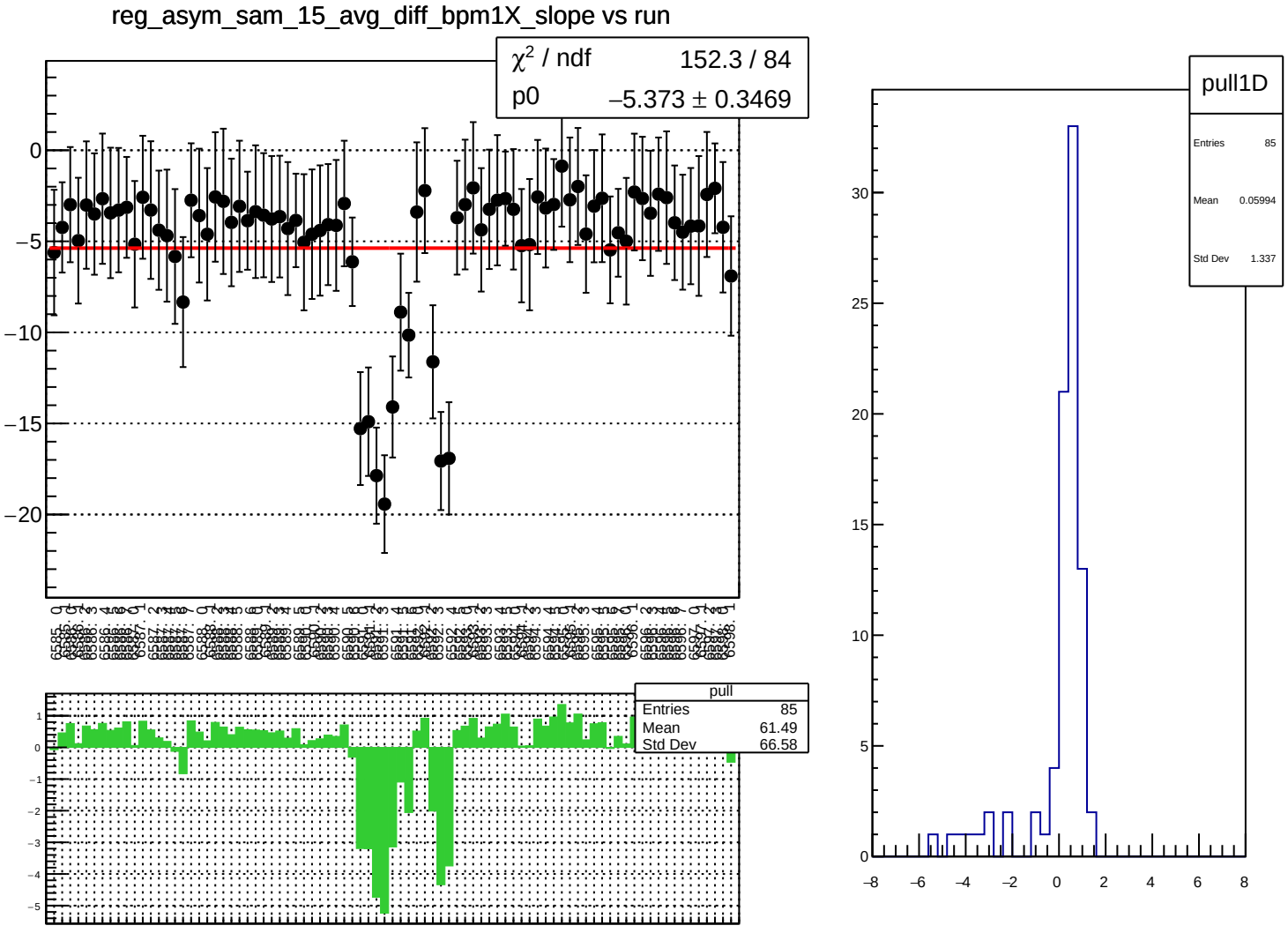

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 92.38 / 84
p0 65.73 ± 1.048
pull
Entries 85
Mean 247.3
Std Dev 191.2

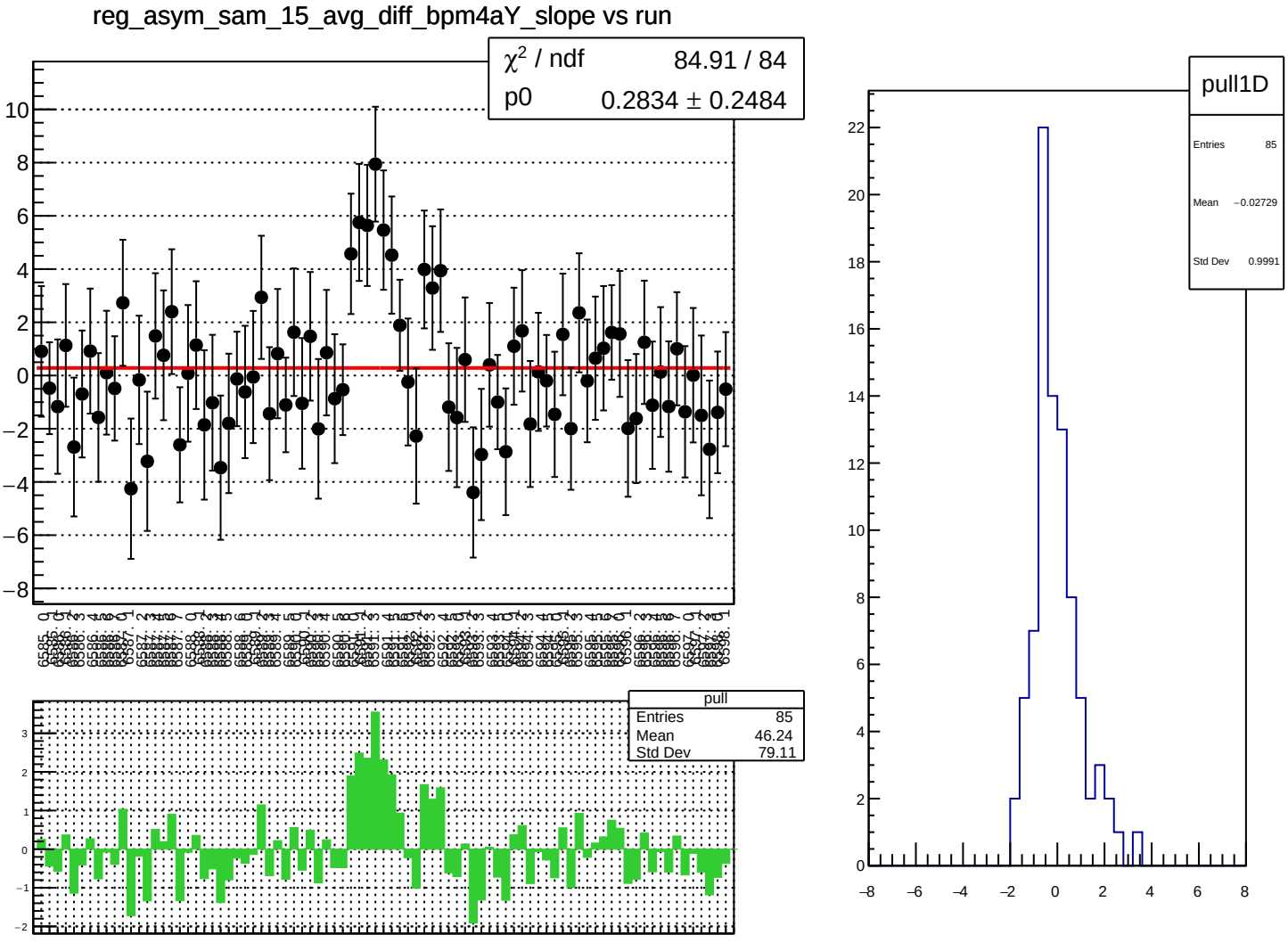

pull1D
Entries 85
Mean 0.03127
Std Dev 1.042

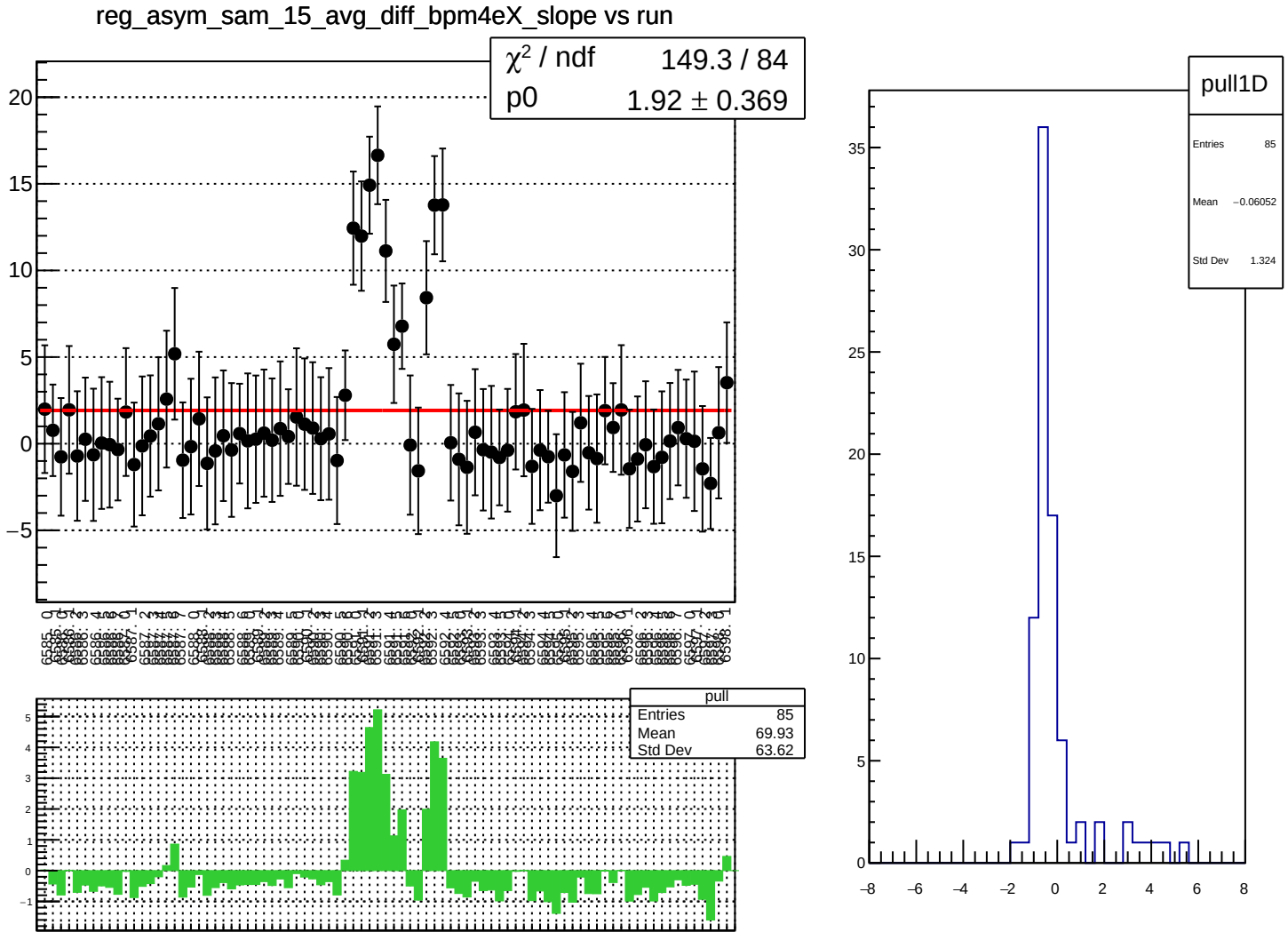

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.68 / 84
p0 15.27 ± 0.8465
pull
Entries 85
Mean 1557
Std Dev 1509

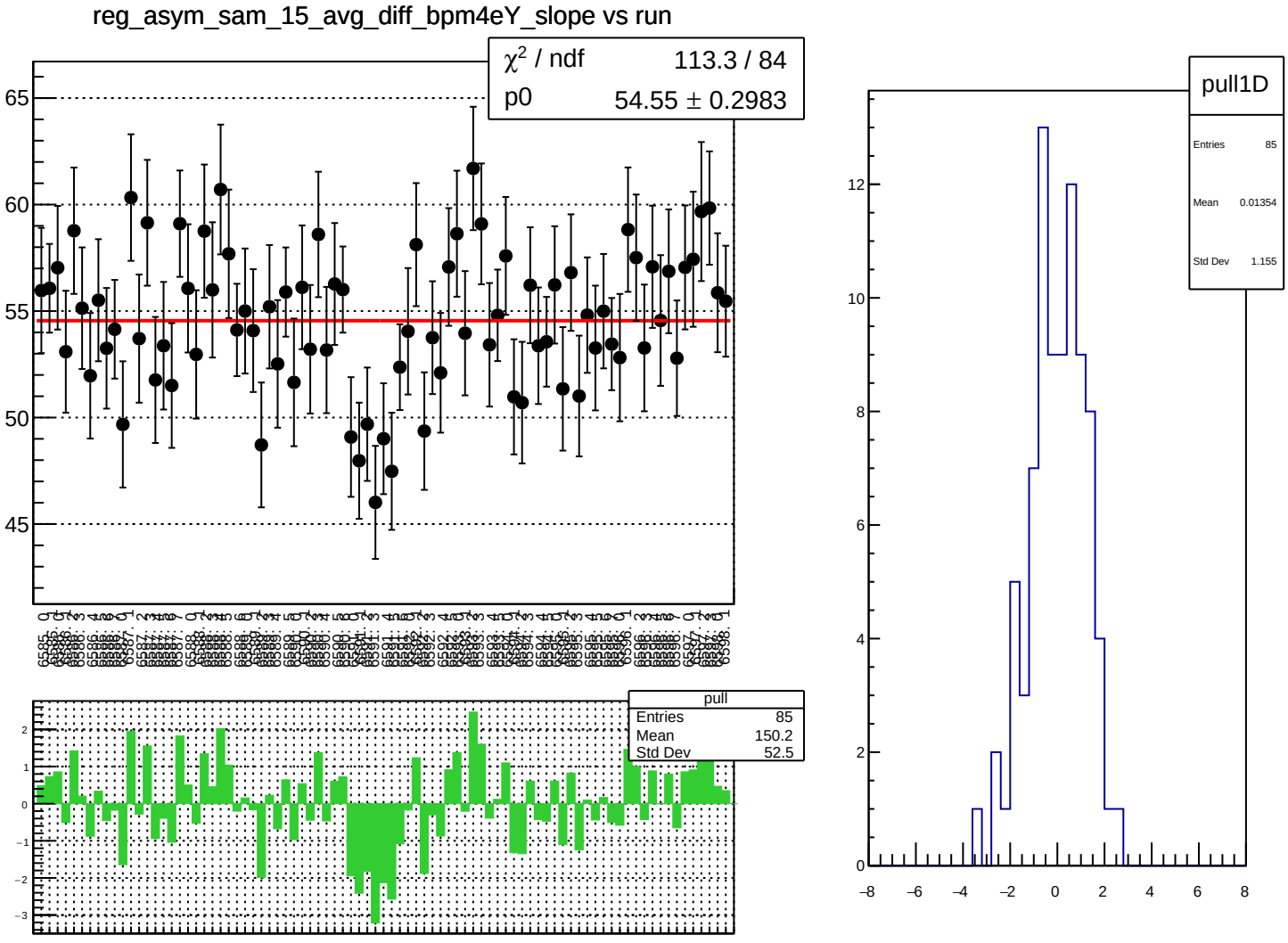

pull1D
Entries 85
Mean −0.004228
Std Dev 0.8166

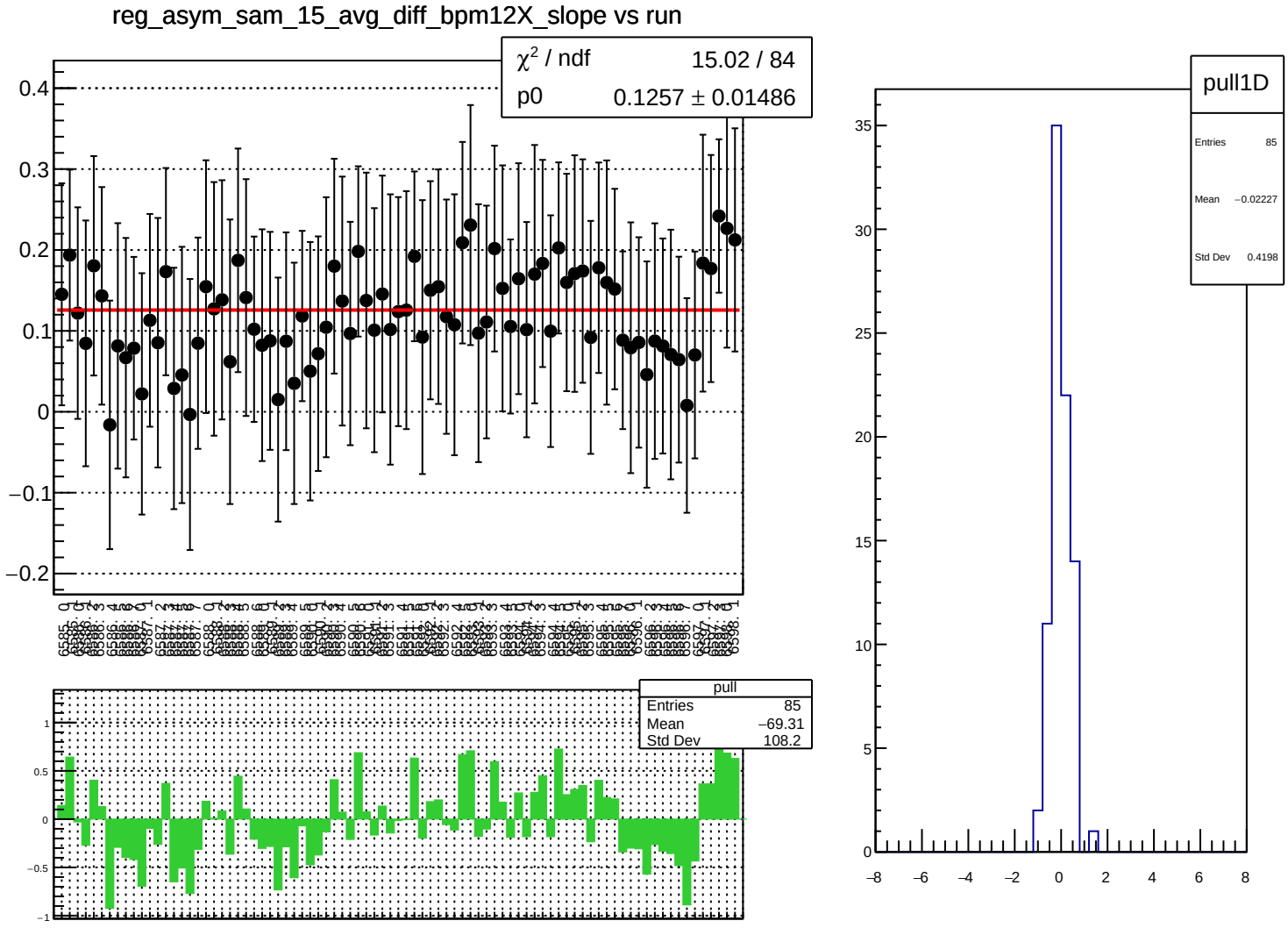

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 133.3 / 84
p0 −24 ± 0.04239
pull
Entries 85
Mean 12.67
Std Dev 45.05
pull1D
Entries 85
Mean −0.02306
Std Dev 1.252

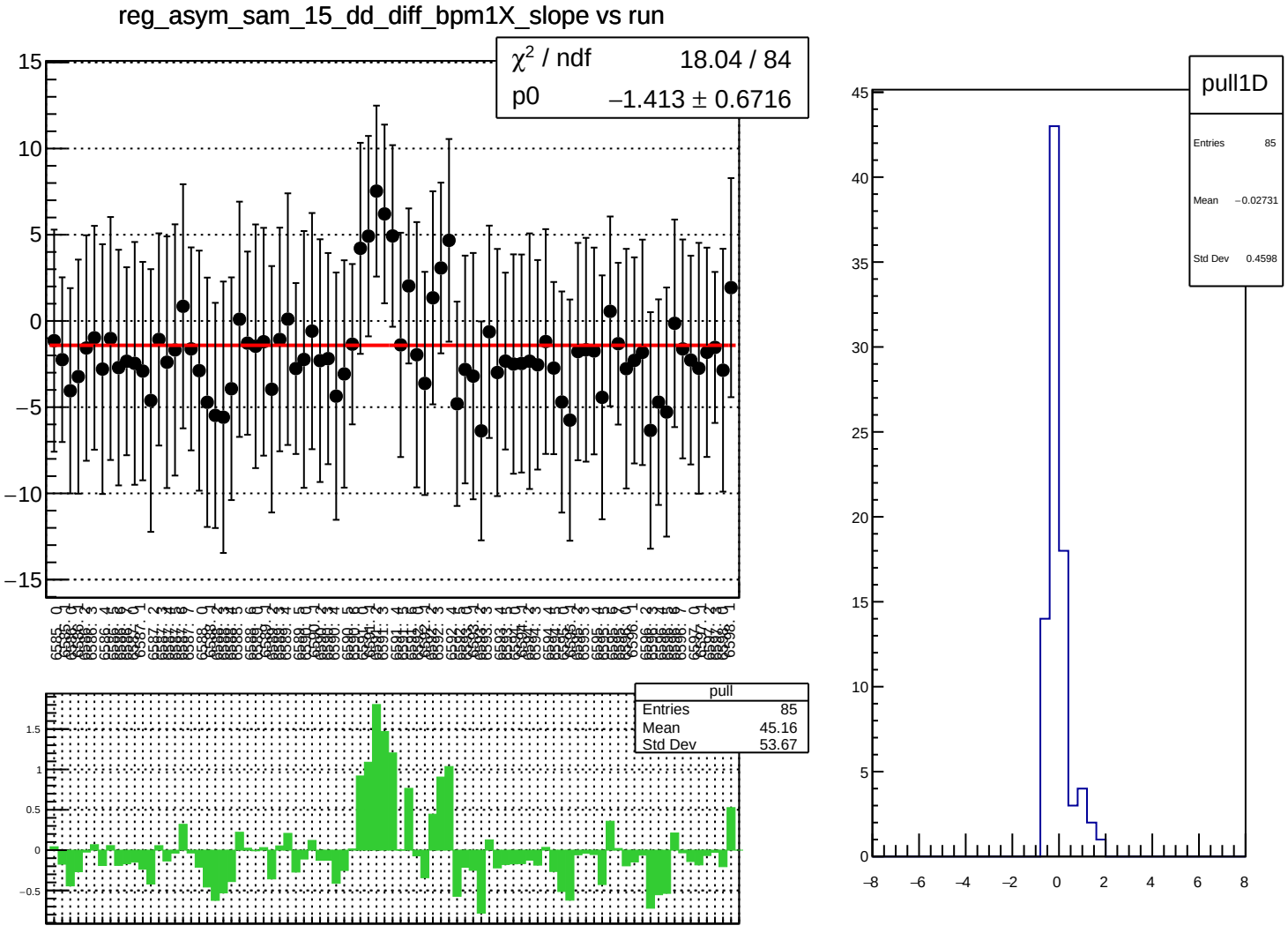

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 152.3 / 84
p0 −5.373 ± 0.3469
pull
Entries 85
Mean 61.49
Std Dev 66.58
pull1D
Entries 85
Mean 0.05994
Std Dev 1.337

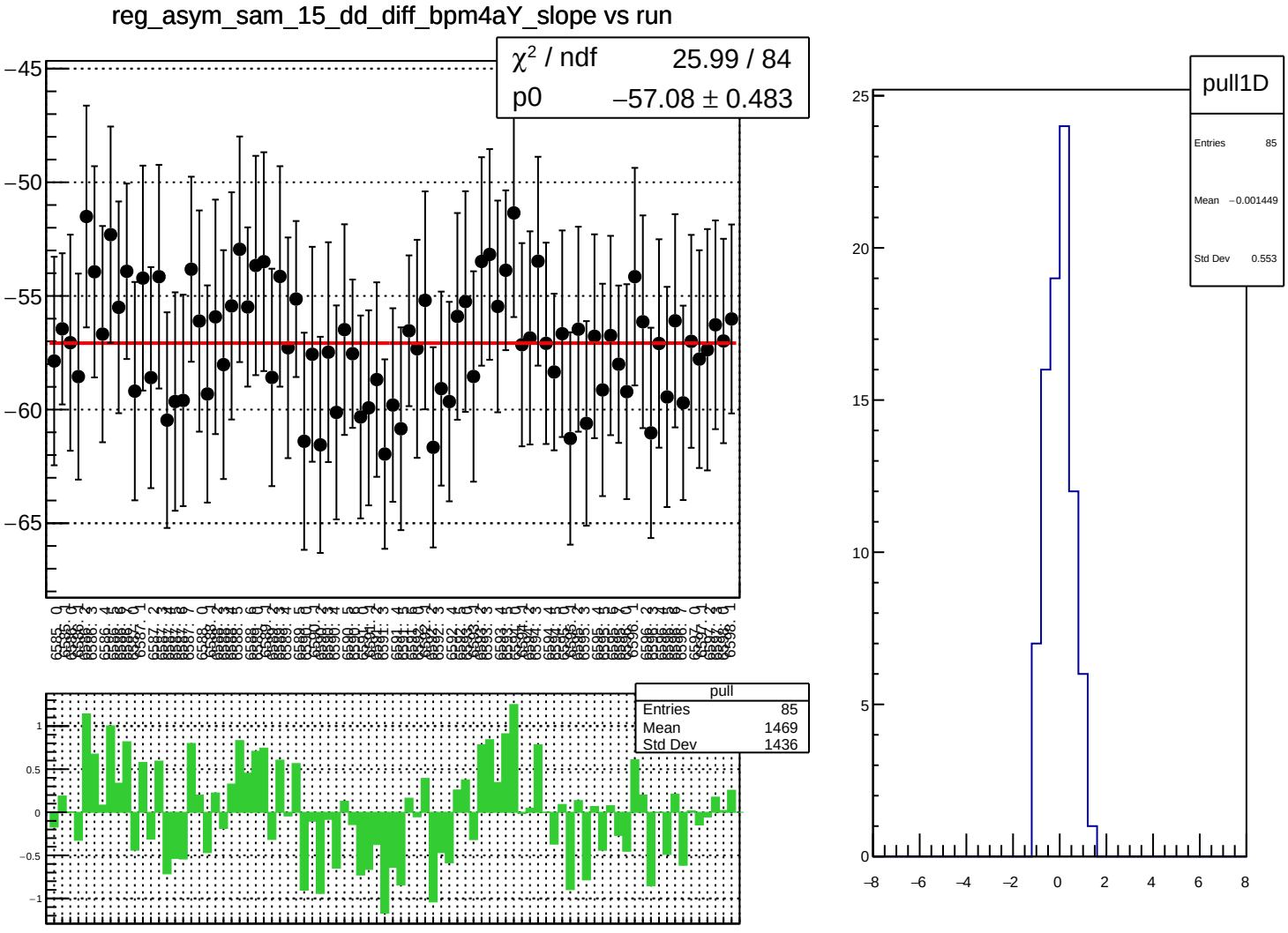

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.91 / 84
p0 0.2834 ± 0.2484
pull
Entries 85
Mean 46.24
Std Dev 79.11
pull1D
Entries 85
Mean −0.02729
Std Dev 0.9991

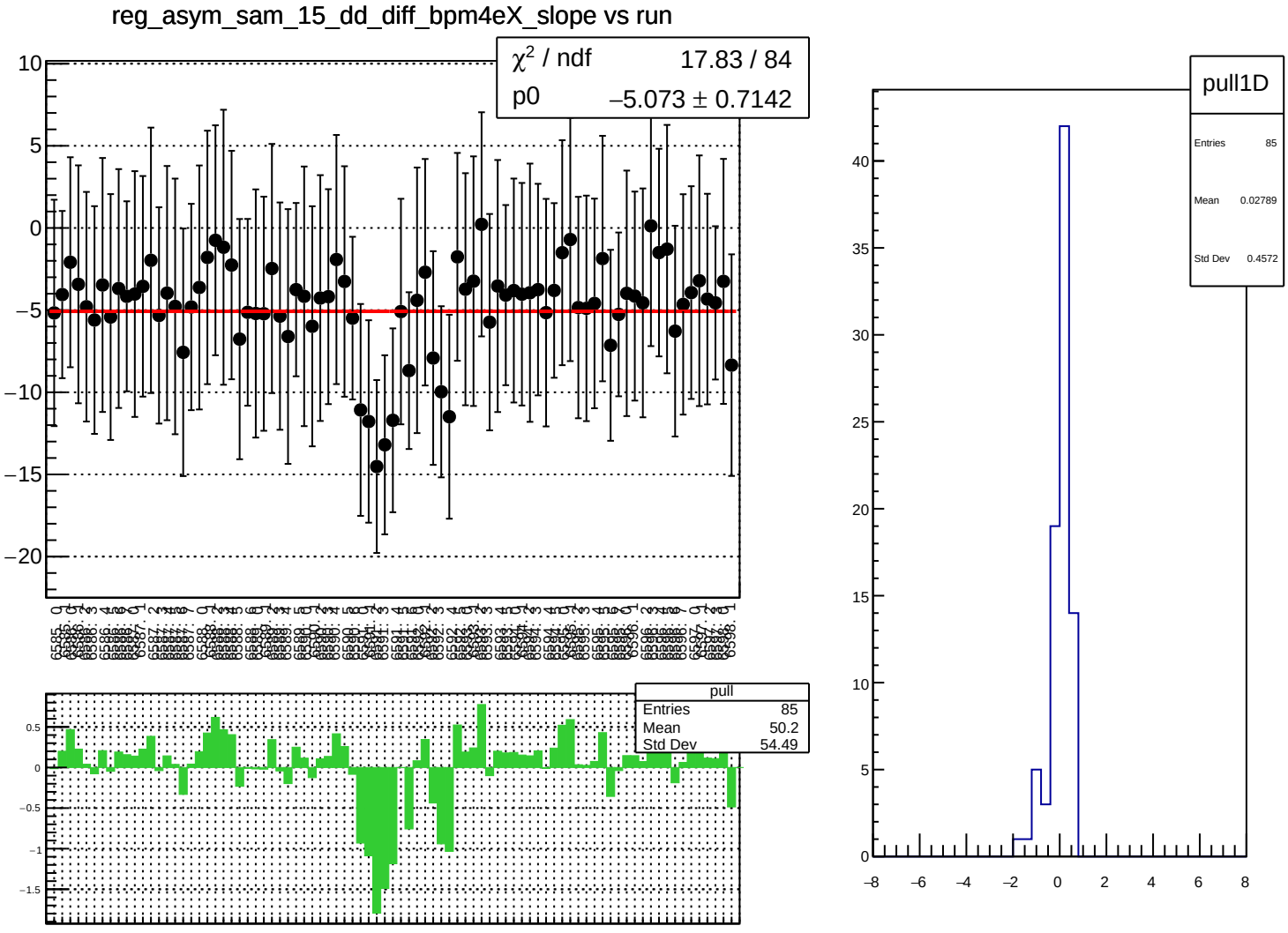

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 149.3 / 84
p0 1.92 ± 0.369
pull
Entries 85
Mean 69.93
Std Dev 63.62
pull1D
Entries 85
Mean −0.06052
Std Dev 1.324

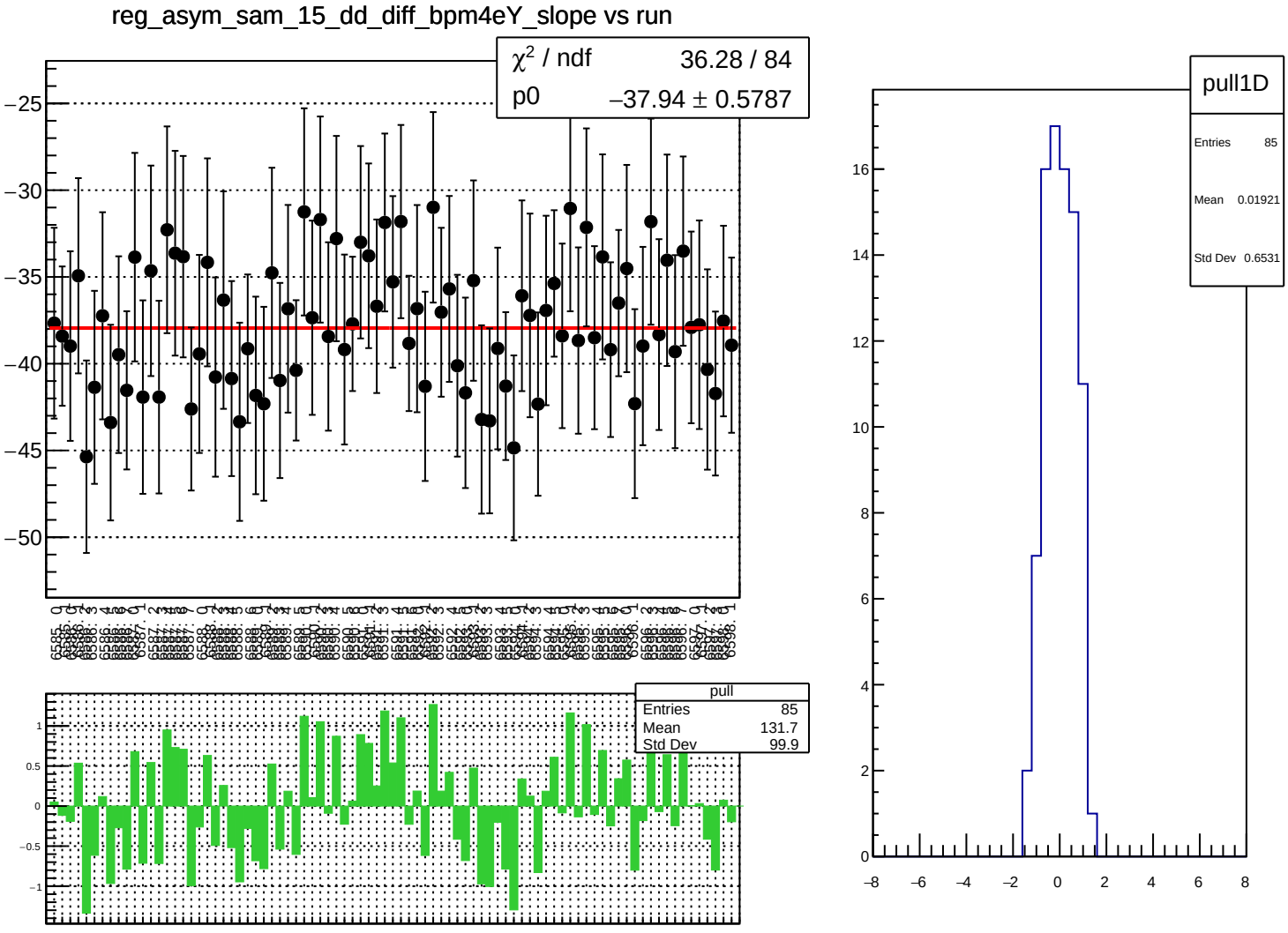

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 113.3 / 84
p0 54.55 ± 0.2983
65
60
55
50
45
pull
Entries 85
Mean 150.2
Std Dev 52.5
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.01354
Std Dev 1.155
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

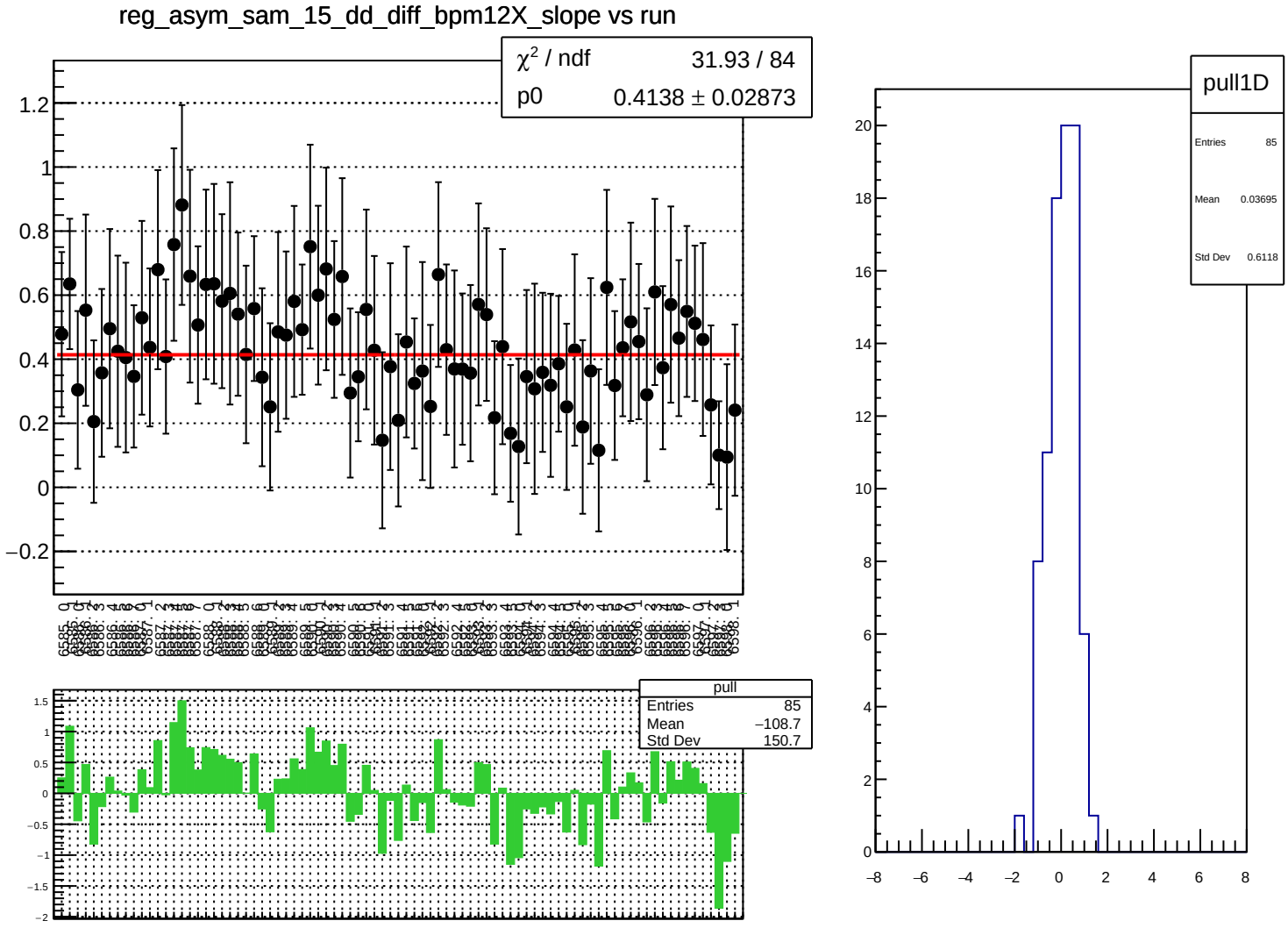

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 15.02 / 84
p0 0.1257 ± 0.01486
pull
Entries 85
Mean −69.31
Std Dev 108.2
pull1D
Entries 85
Mean −0.02227
Std Dev 0.4198

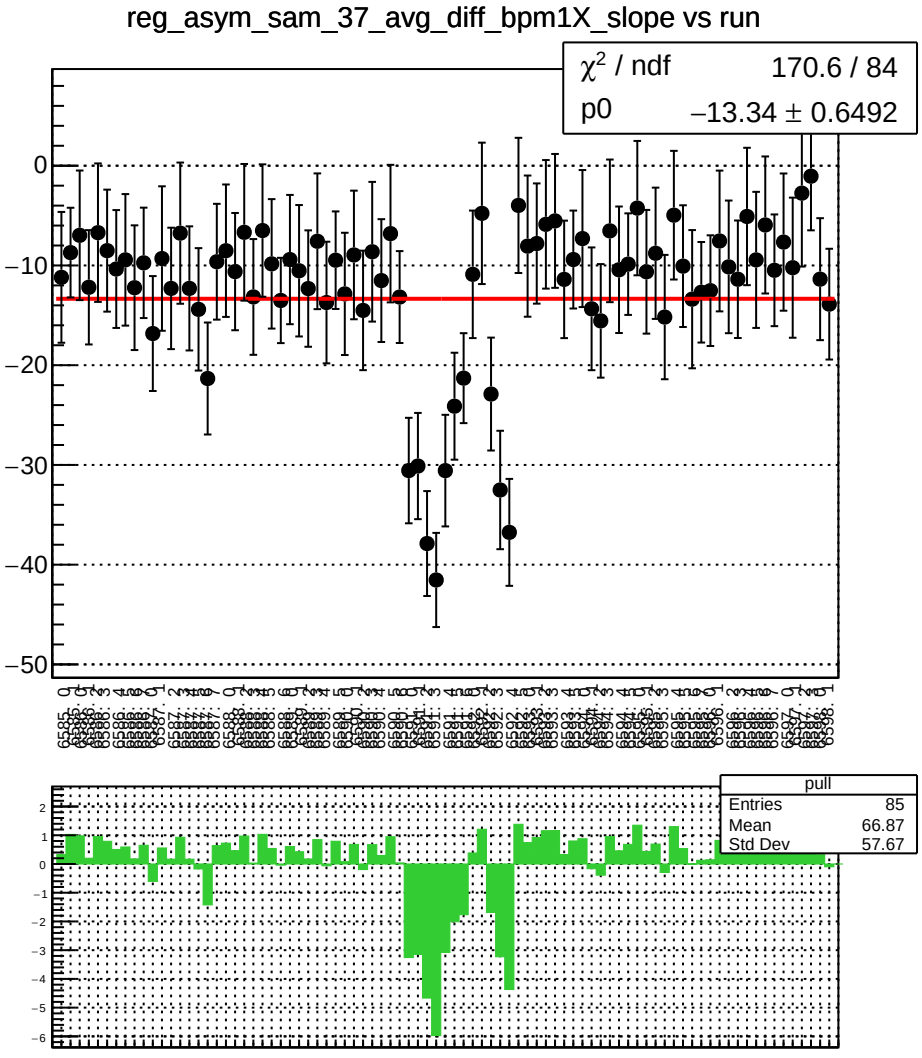

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 18.04 / 84
p0 −1.413 ± 0.6716
pull
Entries 85
Mean 45.16
Std Dev 53.67
pull1D
Entries 85
Mean −0.02731
Std Dev 0.4598

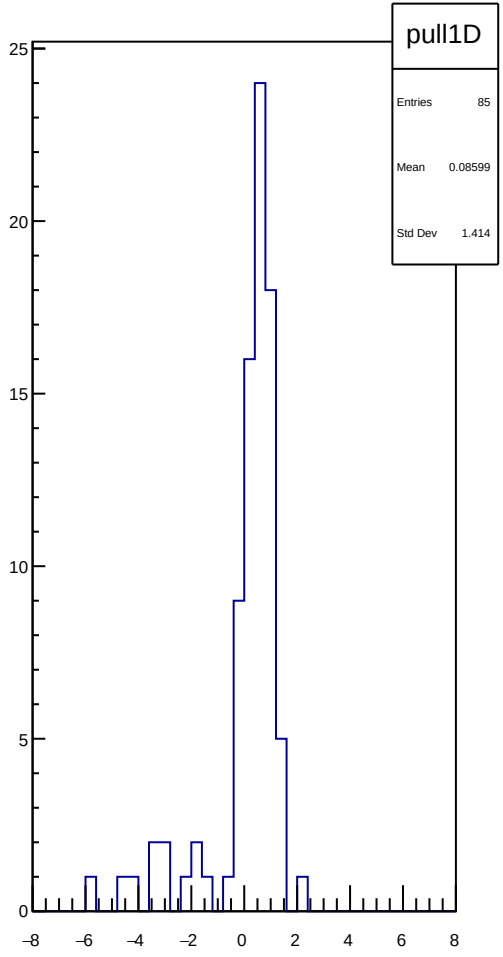

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.99 / 84
p0 −57.08 ± 0.483
−45
−50
−55
−60
−65
pull
Entries 85
Mean 1469
Std Dev 1436
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.001449
Std Dev 0.553
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

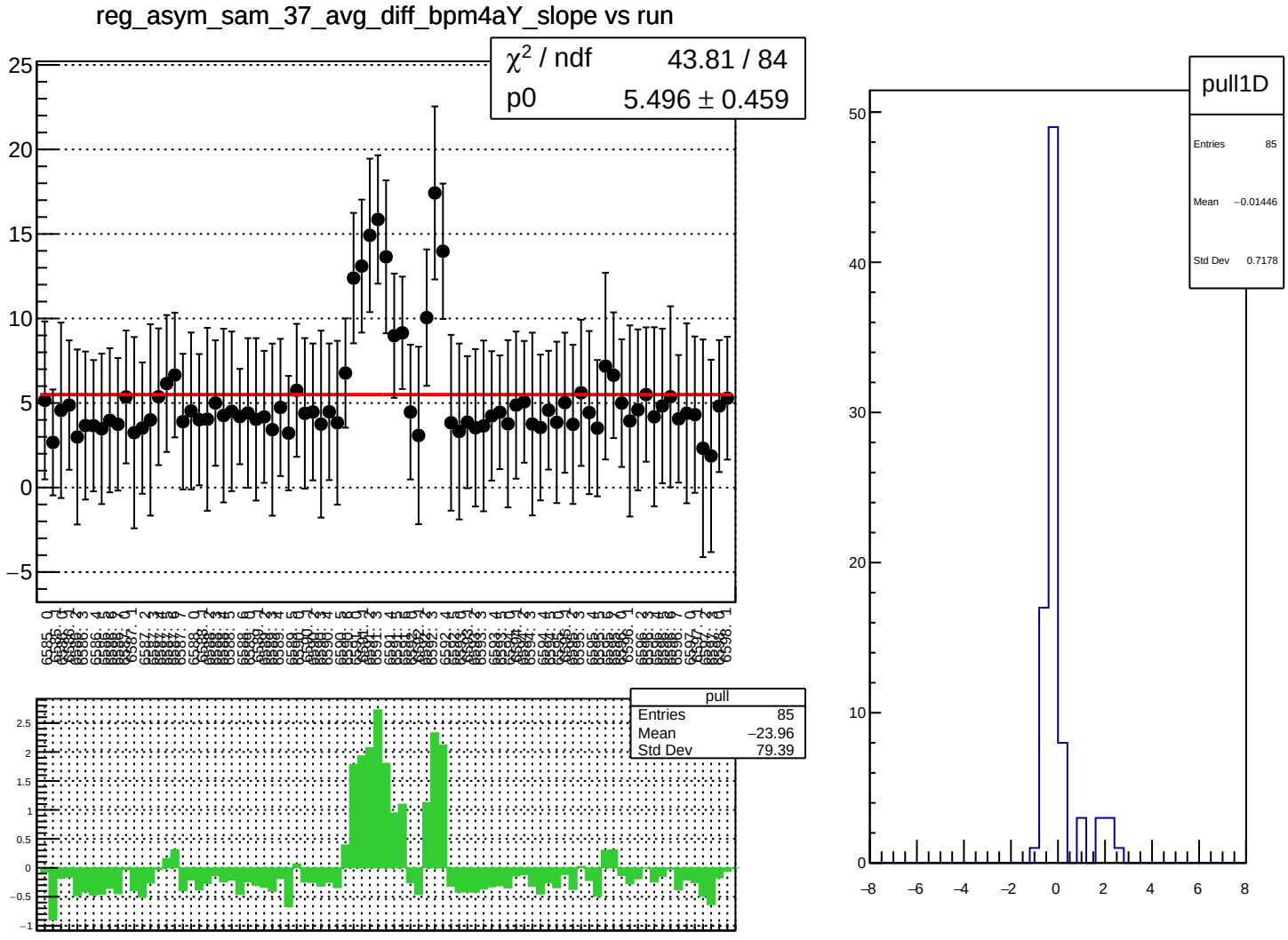

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.83 / 84
p0 −5.073 ± 0.7142
pull
Entries 85
Mean 50.2
Std Dev 54.49
pull1D
Entries 85
Mean 0.02789
Std Dev 0.4572

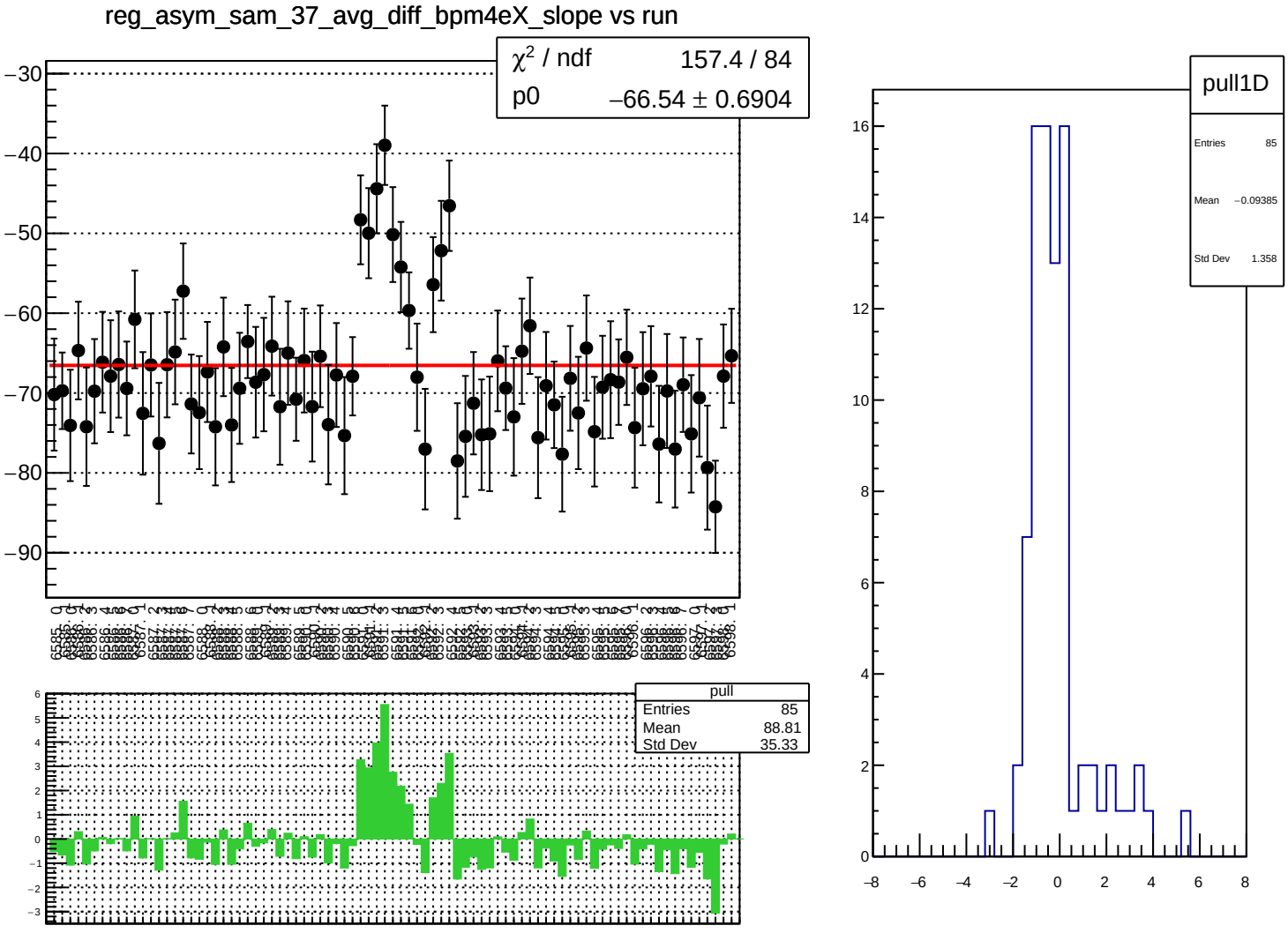

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.28 / 84
p0 −37.94 ± 0.5787
pull
Entries 85
Mean 131.7
Std Dev 99.9
pull1D
Entries 85
Mean 0.01921
Std Dev 0.6531

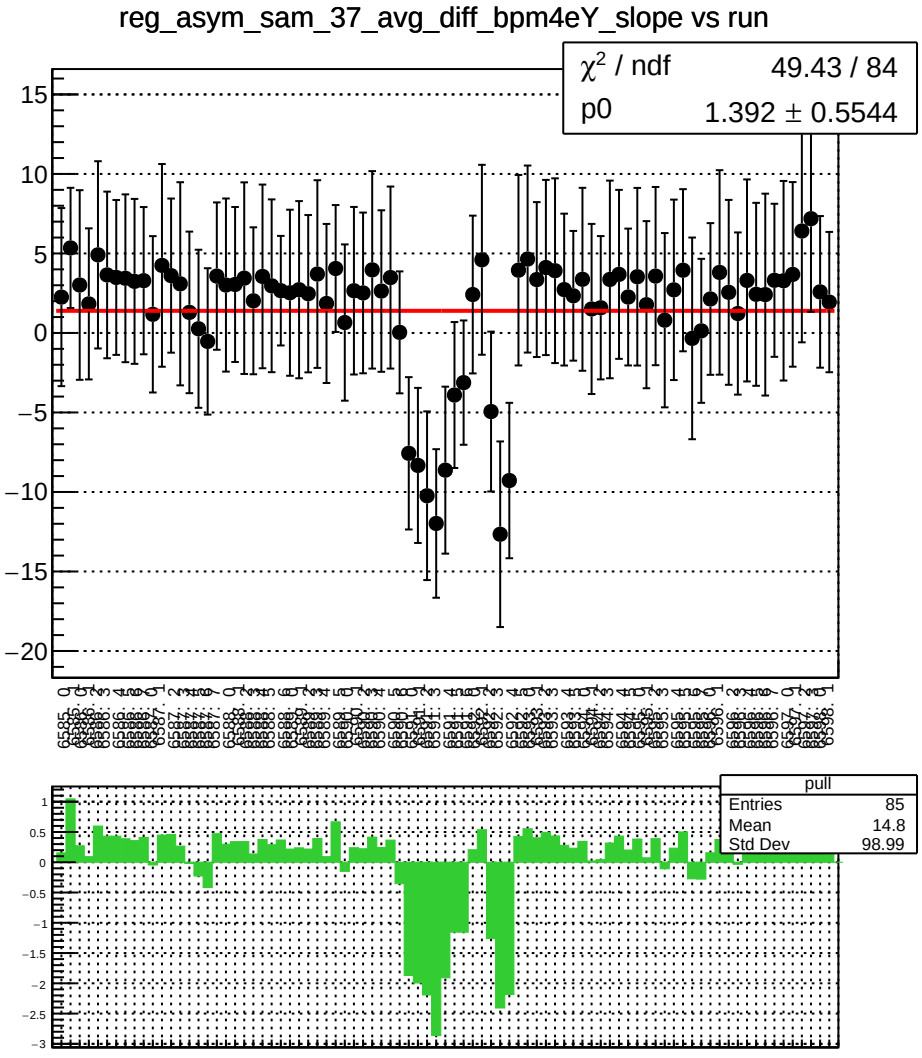

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ^2 / ndf 31.93 / 84
p0 0.4138 ± 0.02873
pull
Entries 85
Mean −108.7
Std Dev 150.7
pull1D
Entries 85
Mean 0.03695
Std Dev 0.6118

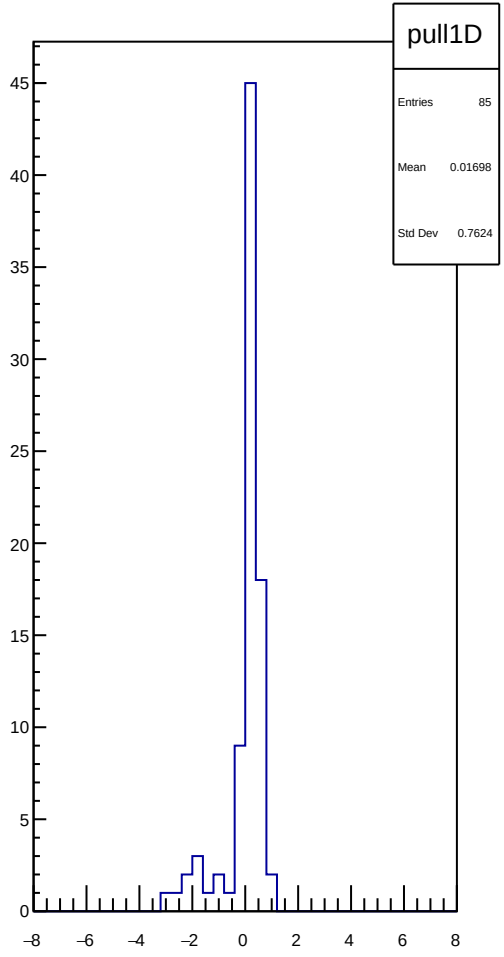

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 170.6 / 84
p0 −13.34 ± 0.6492
pull
Entries 85
Mean 66.87
Std Dev 57.67


pull1D
Entries 85
Mean 0.08599
Std Dev 1.414

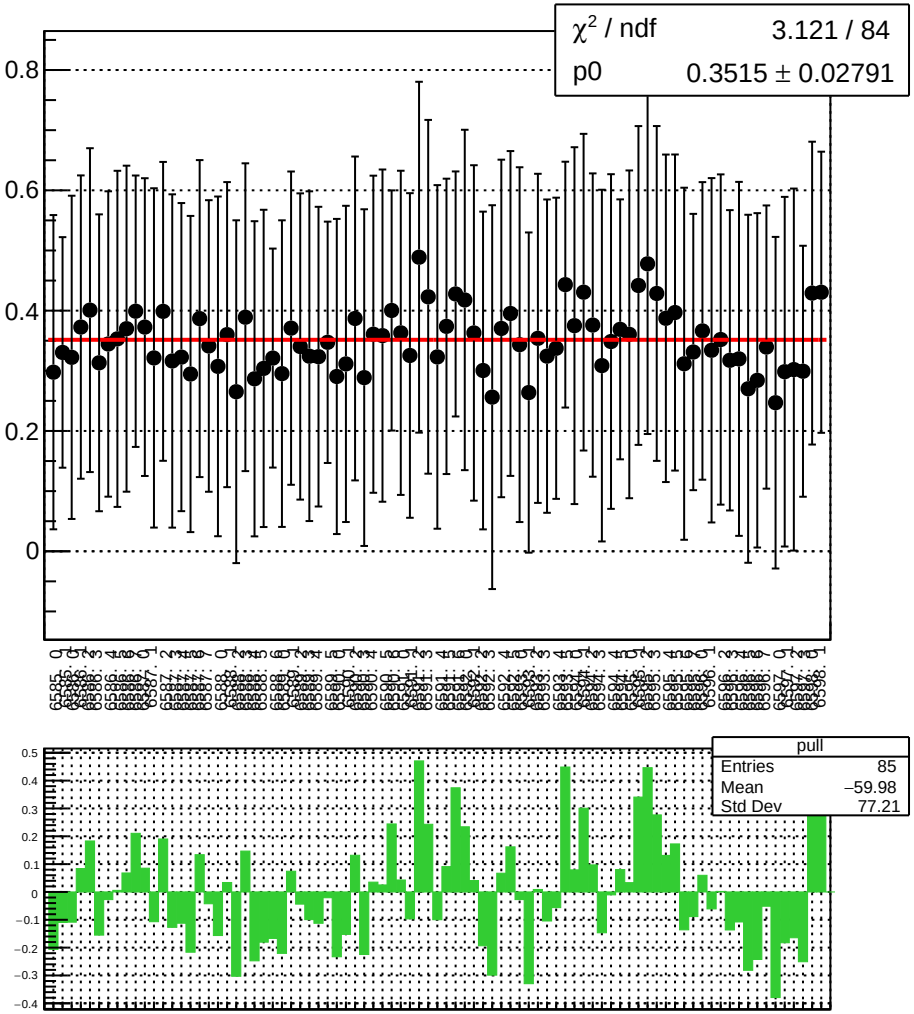

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.81 / 84
p0 5.496 ± 0.459
pull
Entries 85
Mean −23.96
Std Dev 79.39
pull1D
Entries 85
Mean −0.01446
Std Dev 0.7178

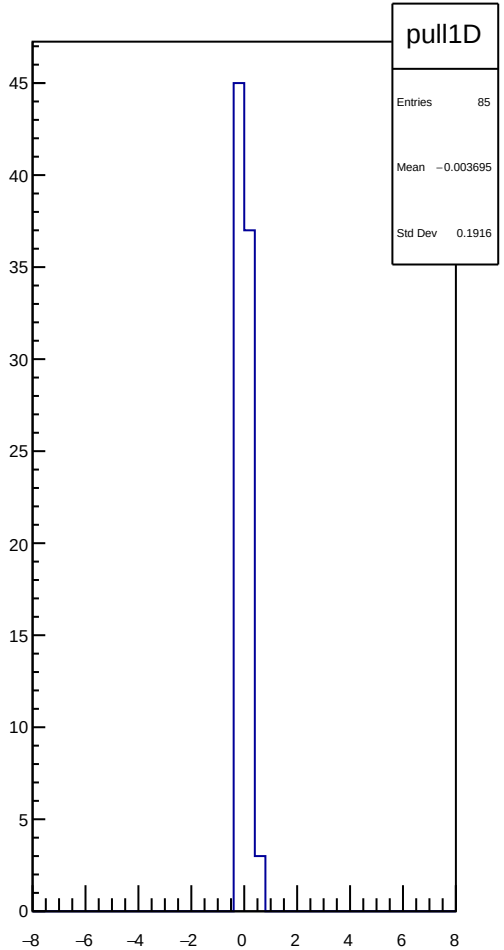

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 157.4 / 84
p0 −66.54 ± 0.6904
pull
Entries 85
Mean 88.81
Std Dev 35.33
pull1D
Entries 85
Mean −0.09385
Std Dev 1.358

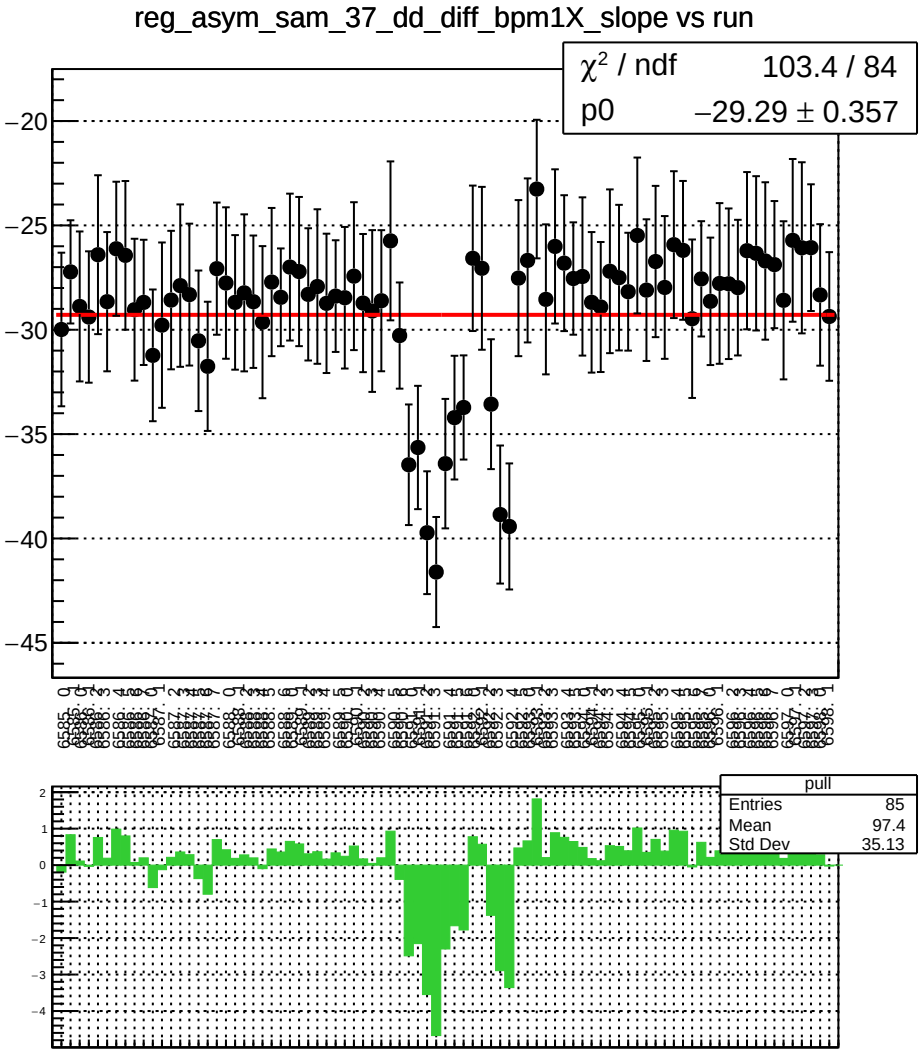

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.43 / 84
p0 1.392 ± 0.5544
pull
Entries 85
Mean 14.8
Std Dev 98.99

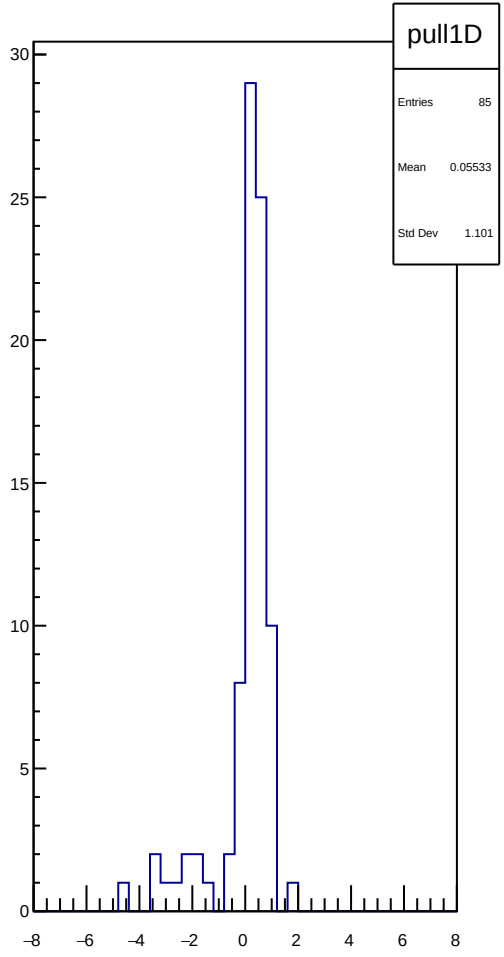

pull1D
Entries 85
Mean 0.01698
Std Dev 0.7624

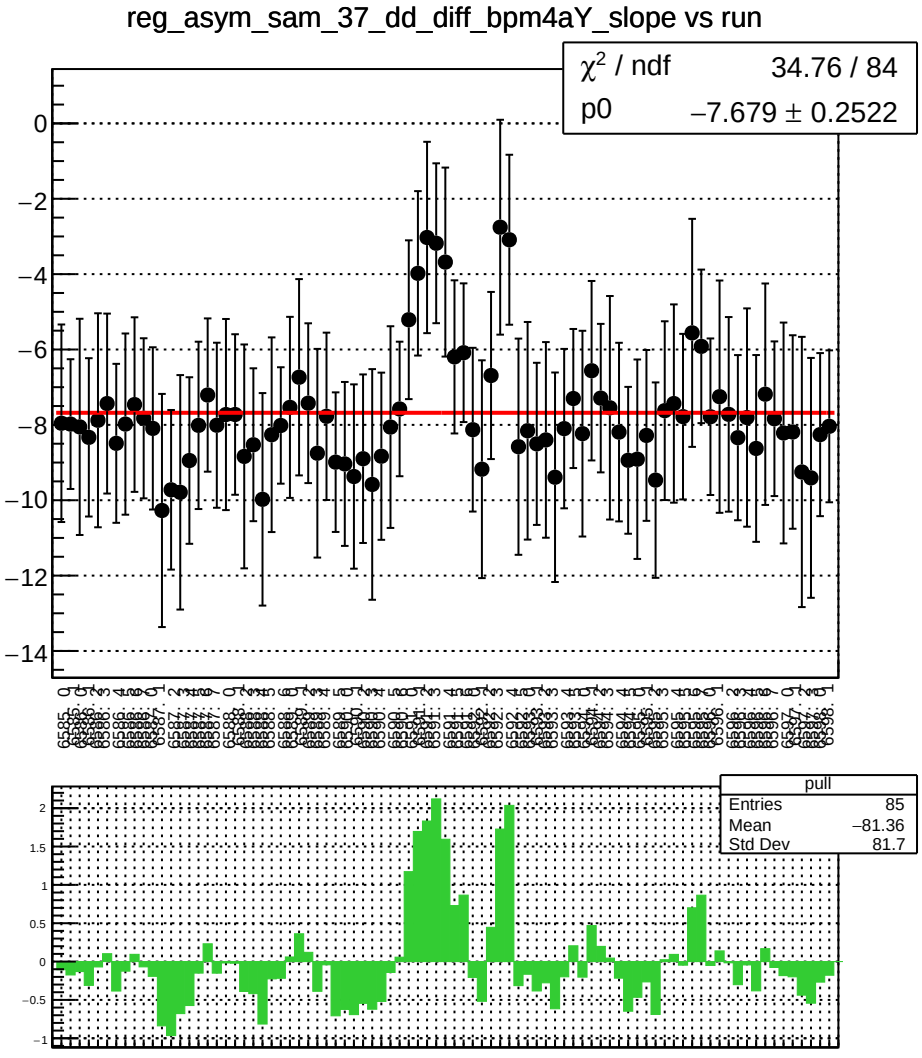
reg_asym_sam_37_avg_diff_bpm12X_slope vs run

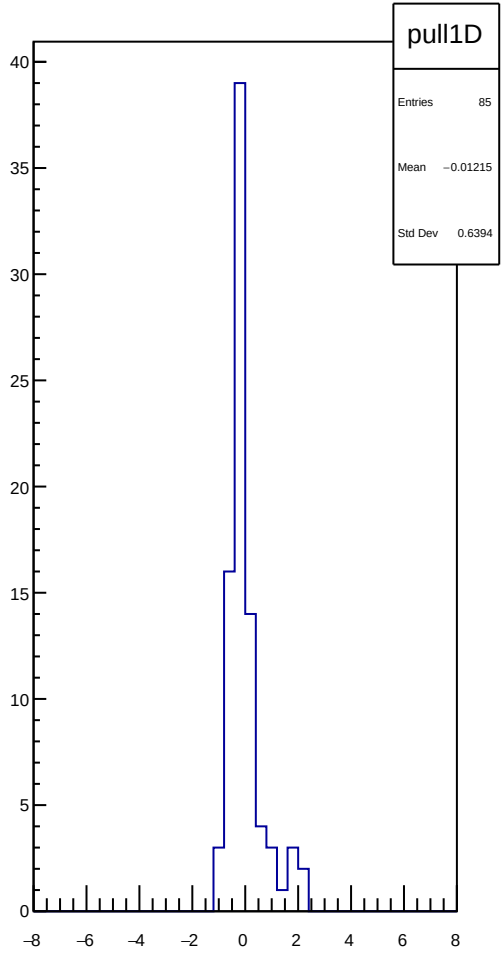


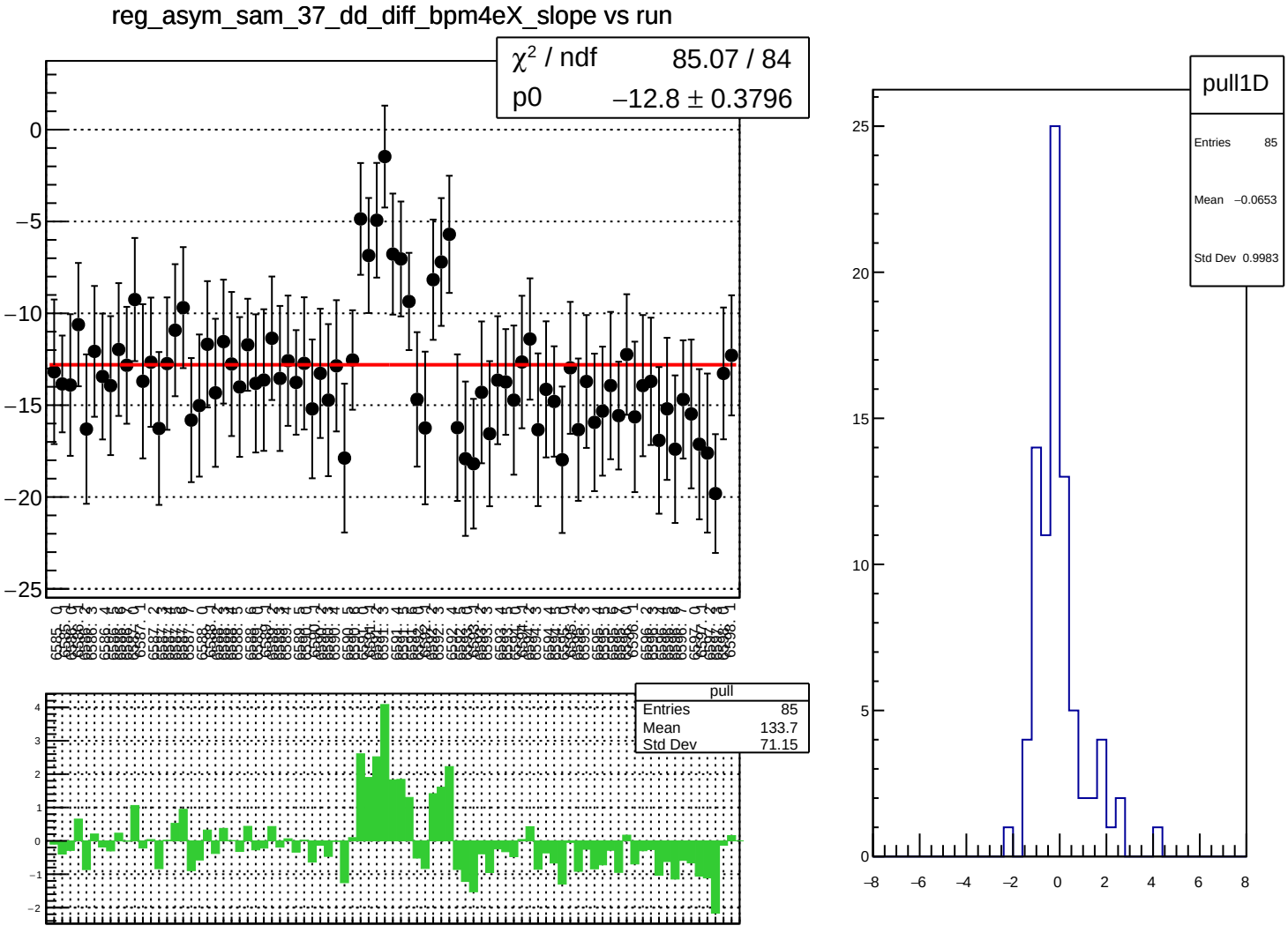


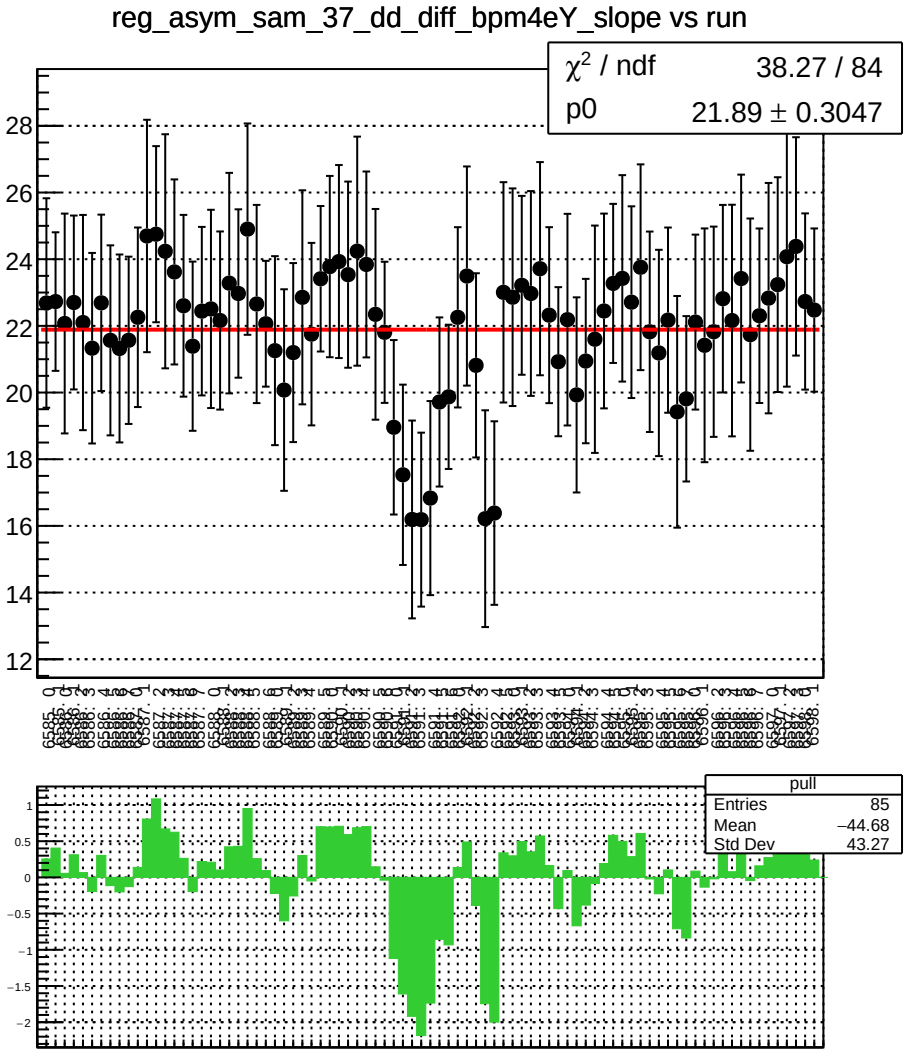

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 103.4 / 84
p0 −29.29 ± 0.357
pull
Entries 85
Mean 97.4
Std Dev 35.13

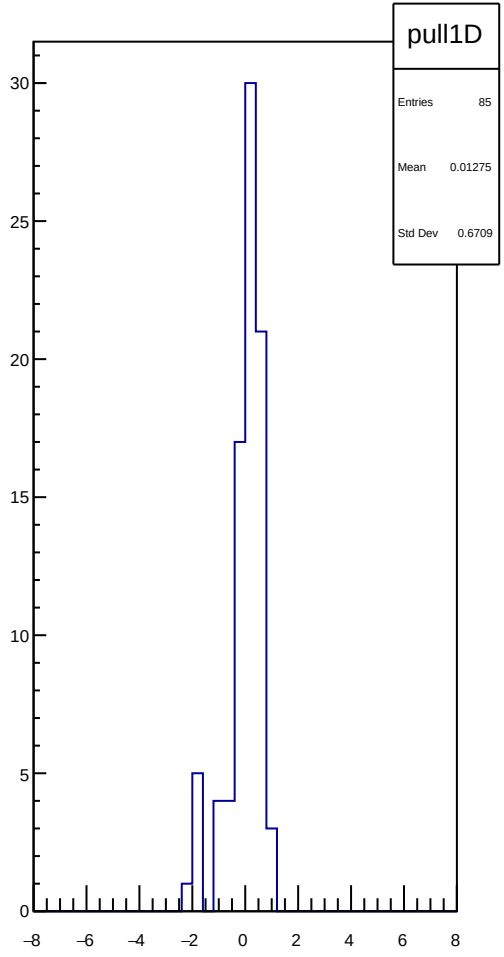

pull1D
Entries 85
Mean 0.05533
Std Dev 1.101

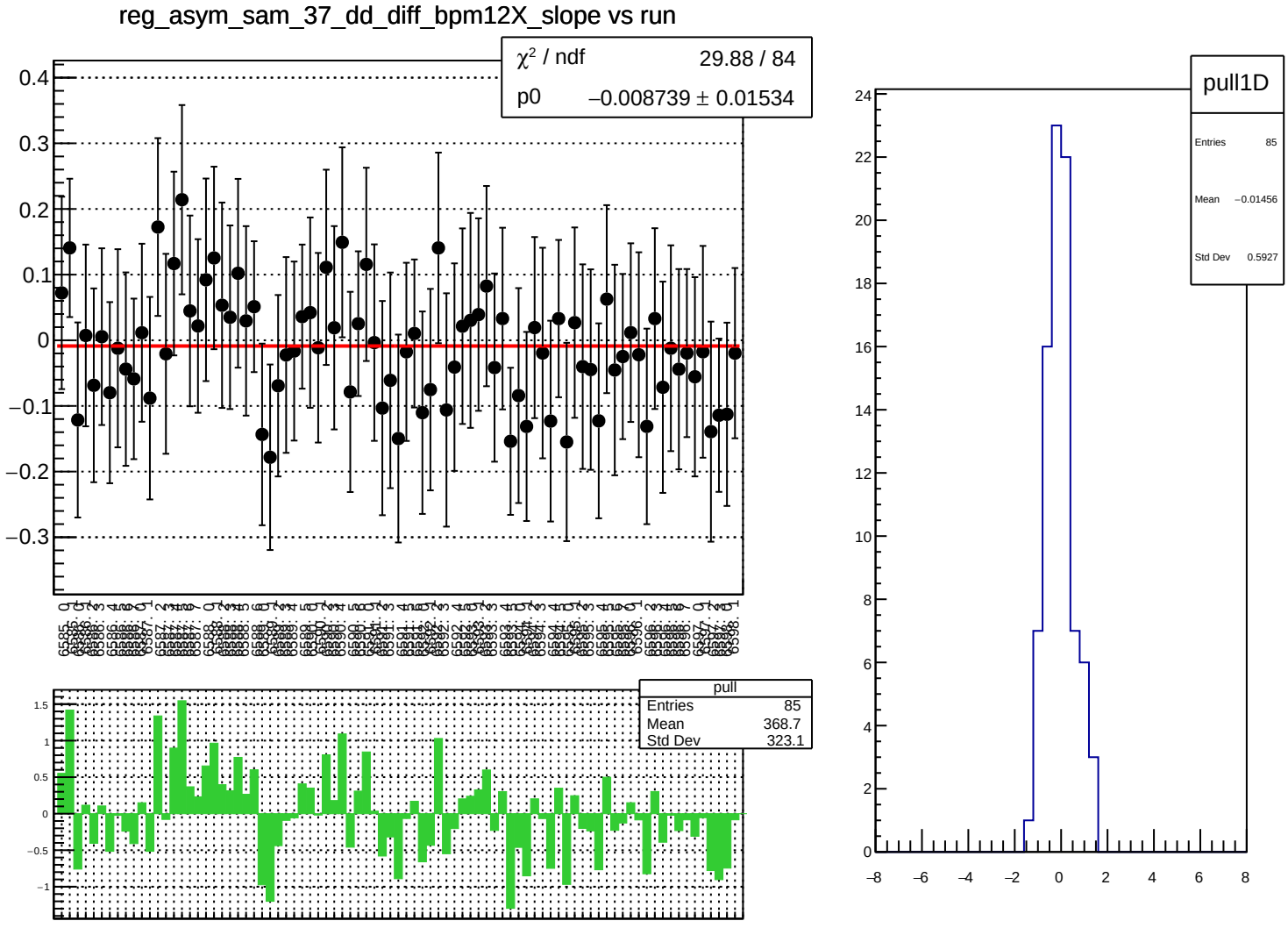

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.76 / 84
p0 −7.679 ± 0.2522
pull
Entries 85
Mean −81.36
Std Dev 81.7

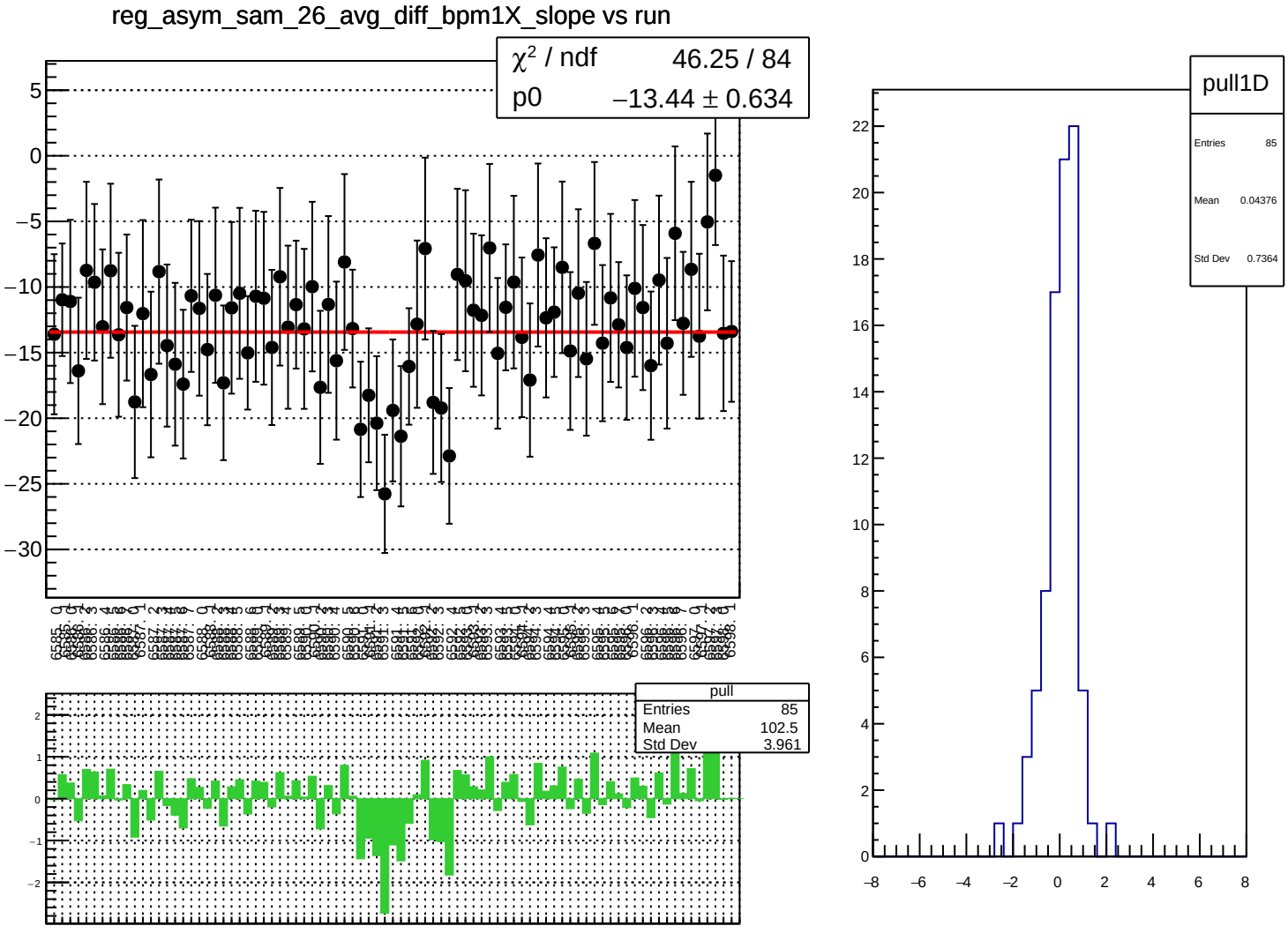

pull1D
Entries 85
Mean −0.01215
Std Dev 0.6394

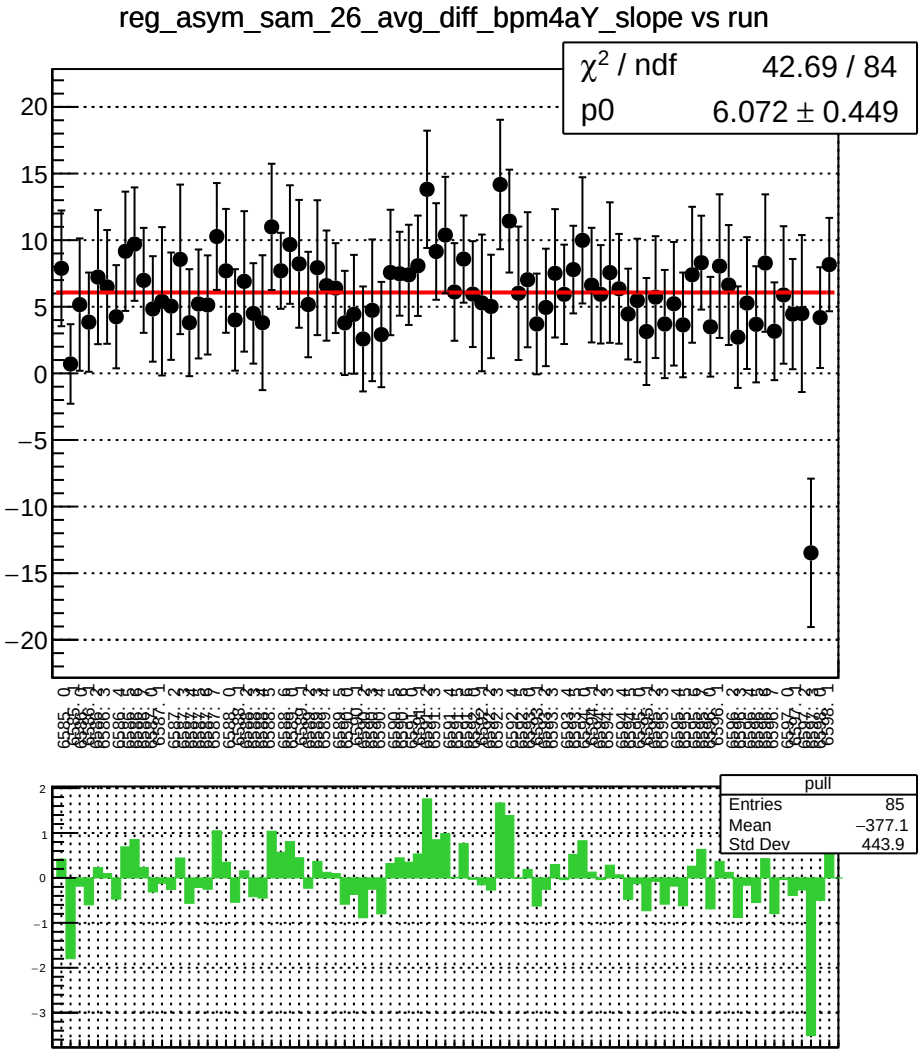

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.07 / 84
p0 −12.8 ± 0.3796
pull
Entries 85
Mean 133.7
Std Dev 71.15
pull1D
Entries 85
Mean −0.0653
Std Dev 0.9983

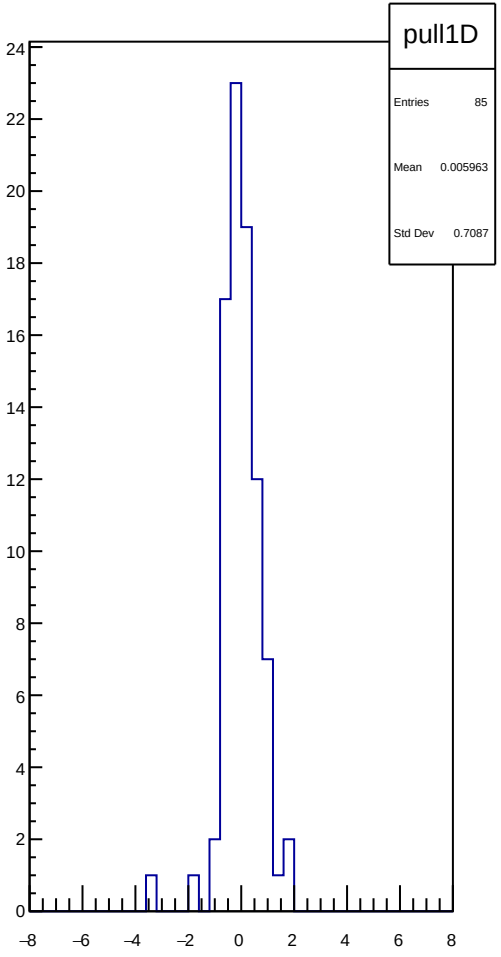

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.27 / 84
p0 21.89 ± 0.3047
pull
Entries 85
Mean −44.68
Std Dev 43.27

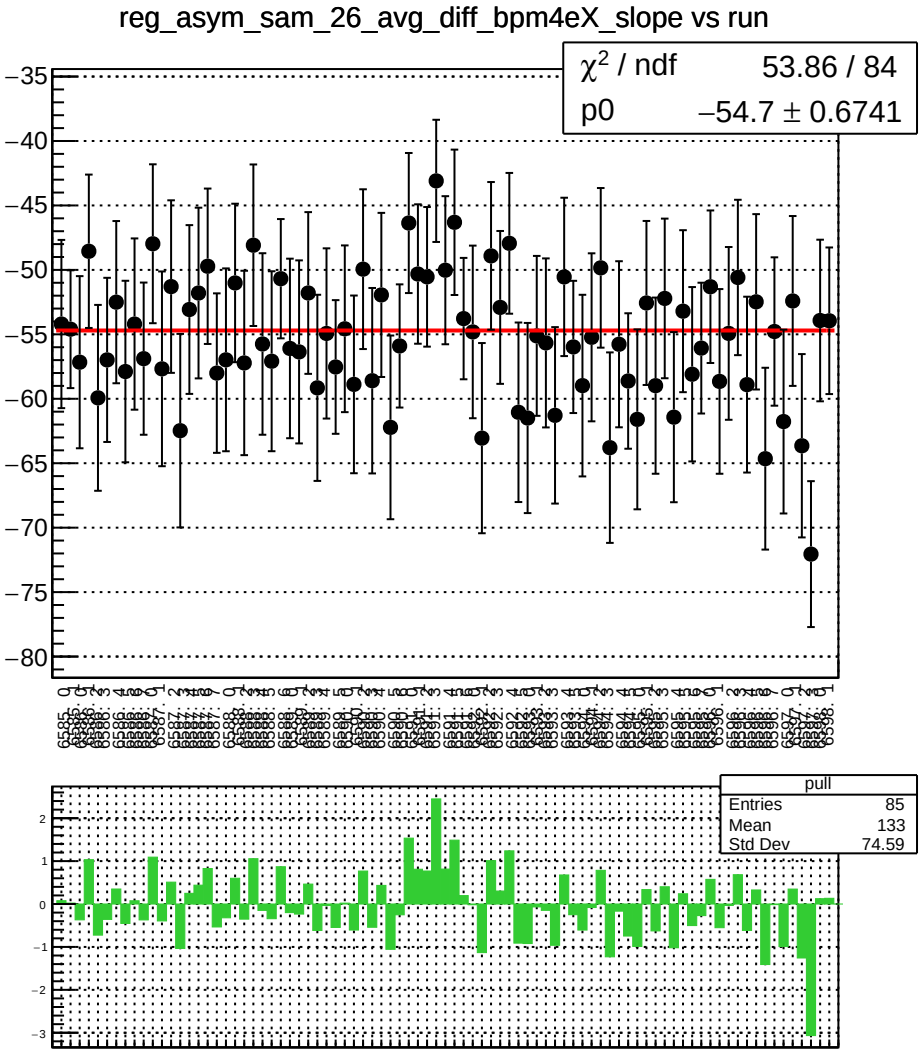

pull1D
Entries 85
Mean 0.01275
Std Dev 0.6709

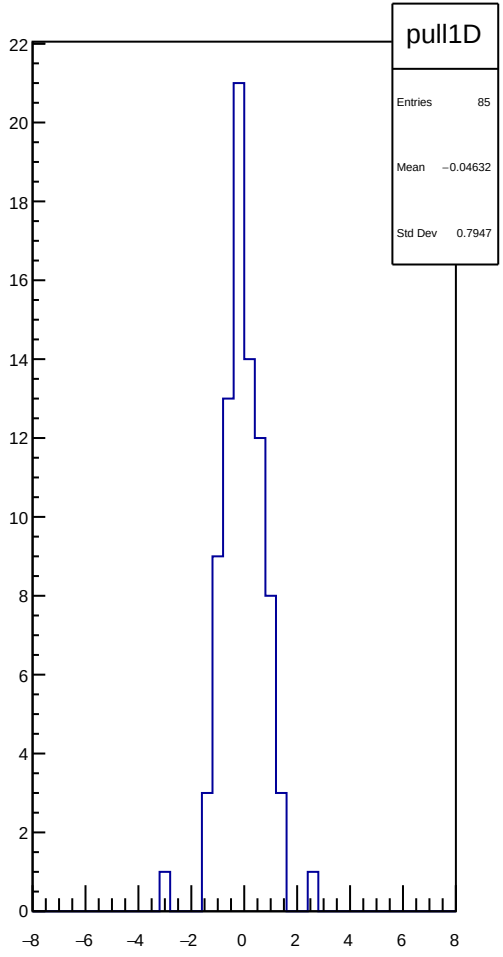

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 29.88 / 84
p0 −0.008739 ± 0.01534
pull
Entries 85
Mean 368.7
Std Dev 323.1
pull1D
Entries 85
Mean −0.01456
Std Dev 0.5927

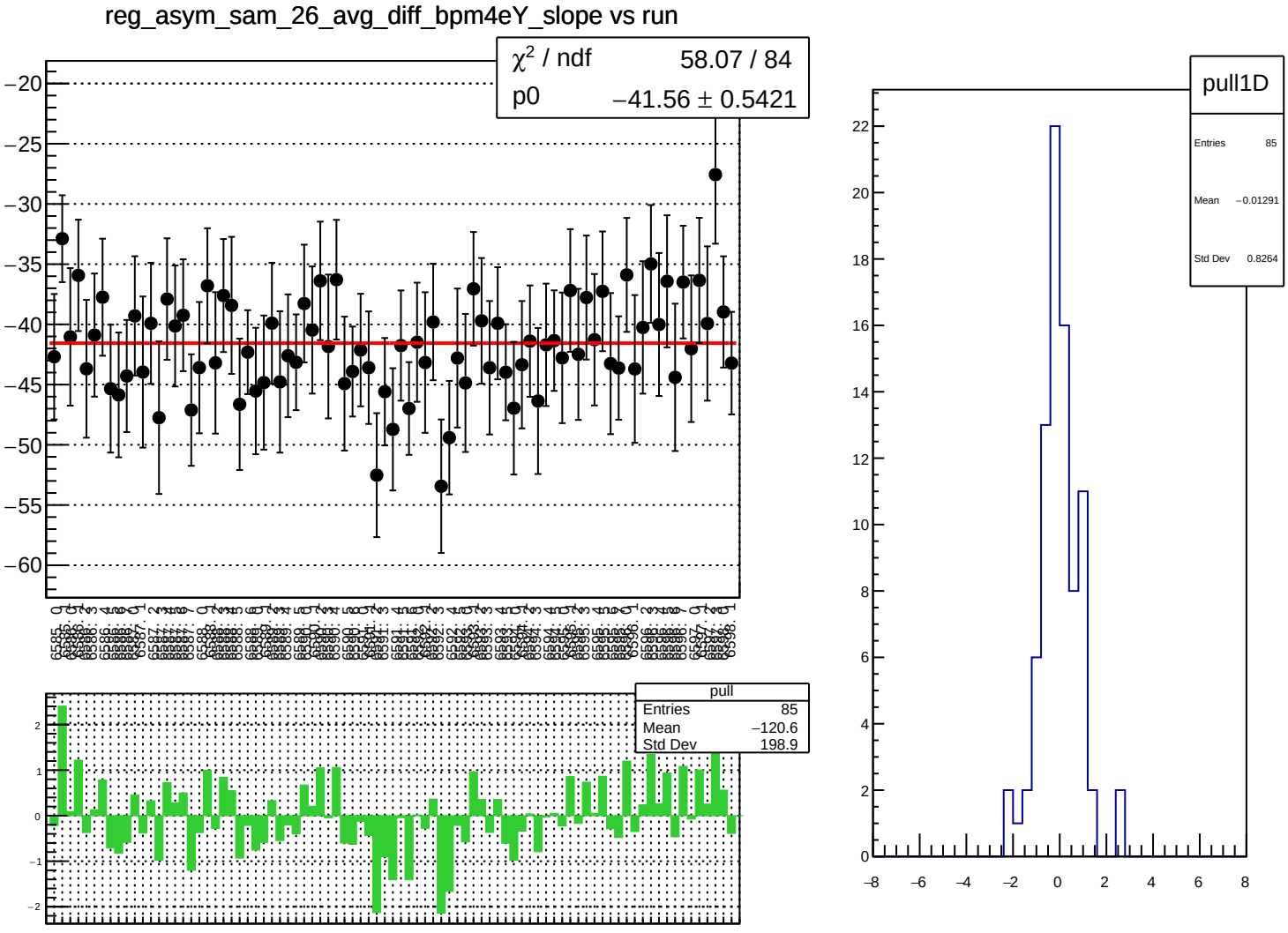

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 46.25 / 84
p0 −13.44 ± 0.634
pull
Entries 85
Mean 102.5
Std Dev 3.961
pull1D
Entries 85
Mean 0.04376
Std Dev 0.7364

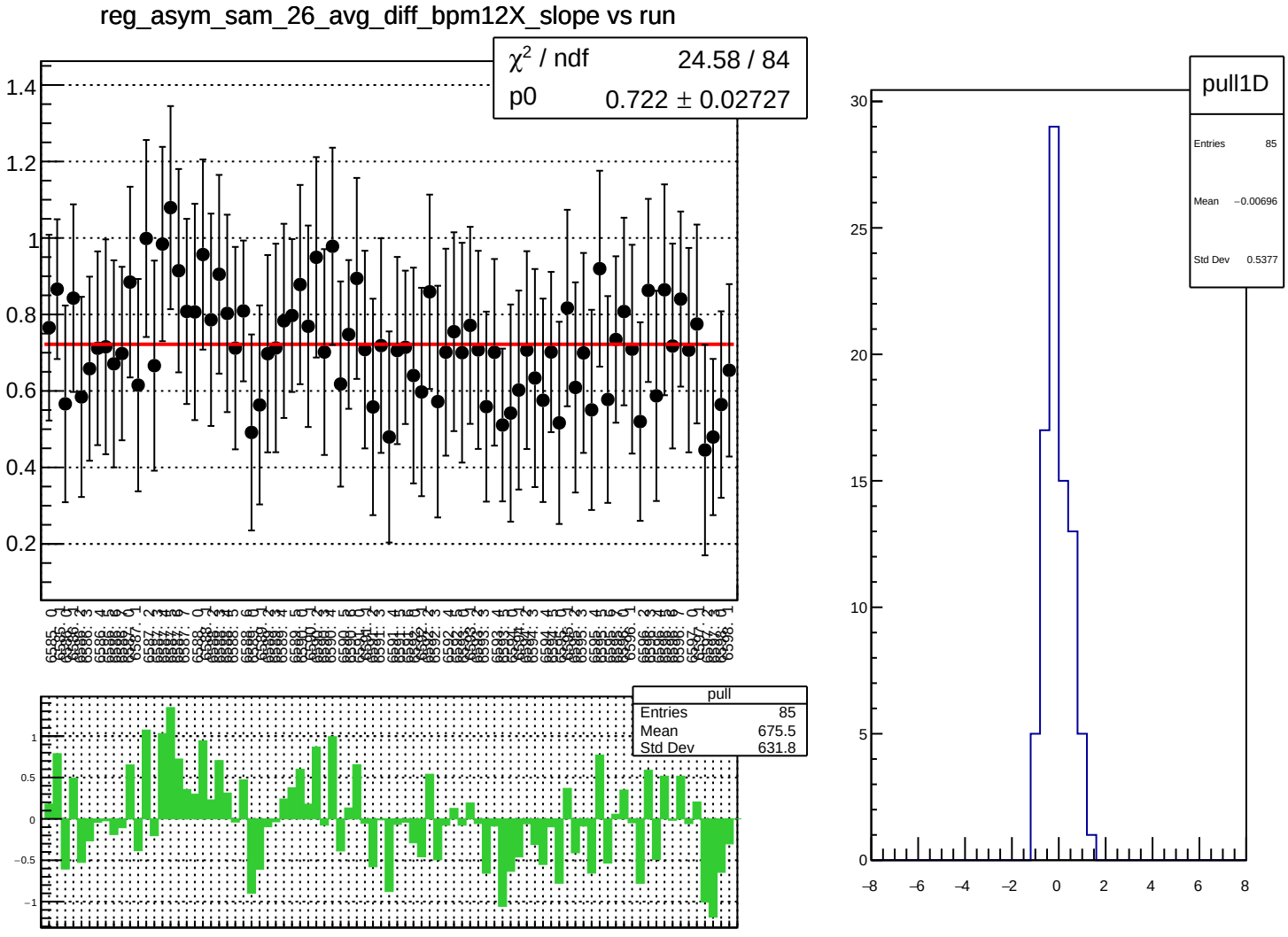

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 42.69 / 84
p0 6.072 ± 0.449
pull
Entries 85
Mean −377.1
Std Dev 443.9

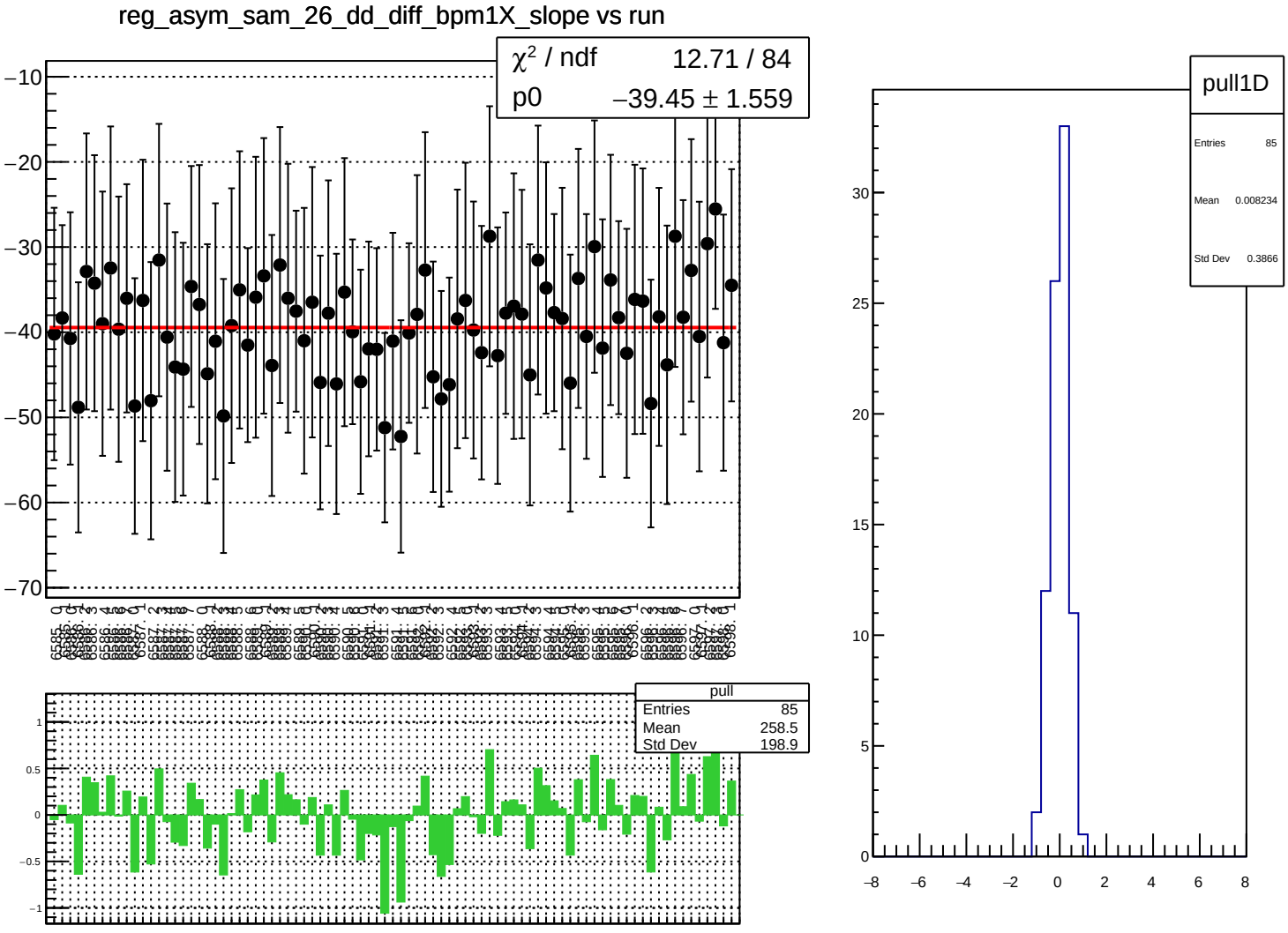

pull1D
Entries 85
Mean 0.005963
Std Dev 0.7087

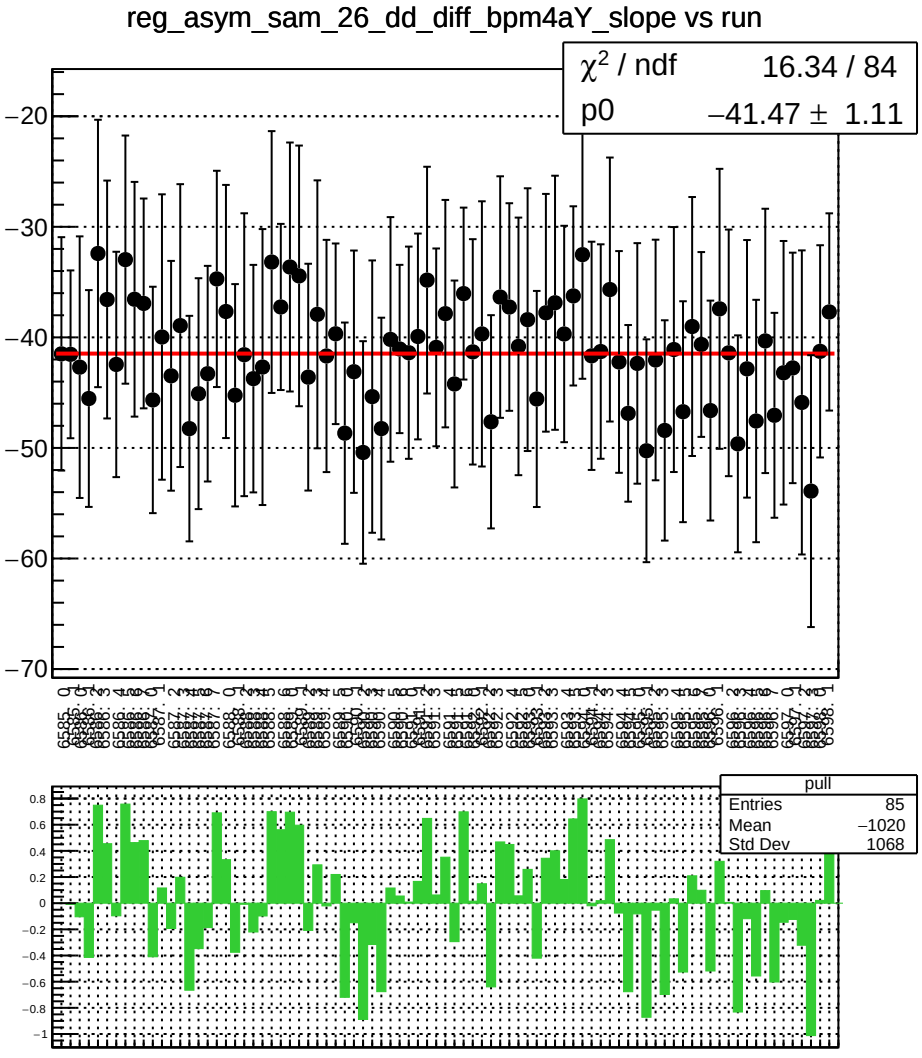

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.86 / 84
p0 −54.7 ± 0.6741
pull
Entries 85
Mean 133
Std Dev 74.59

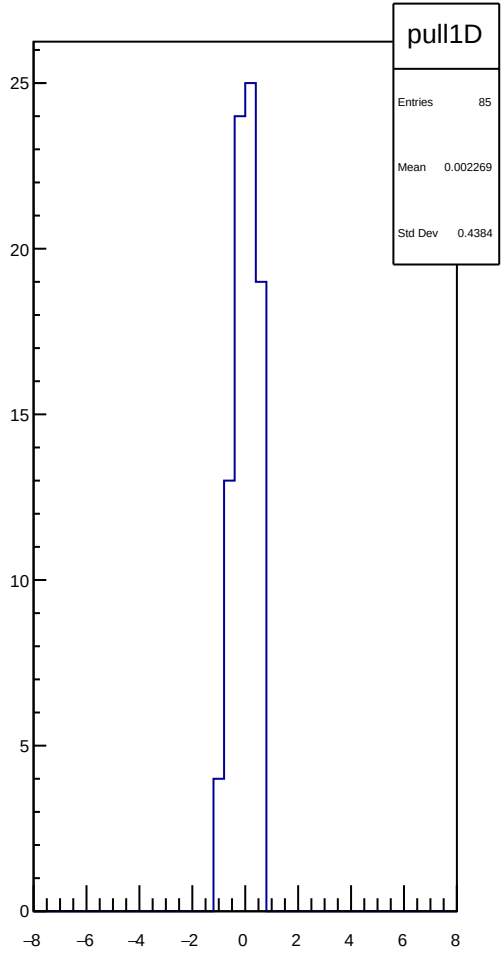

pull1D
Entries 85
Mean −0.04632
Std Dev 0.7947

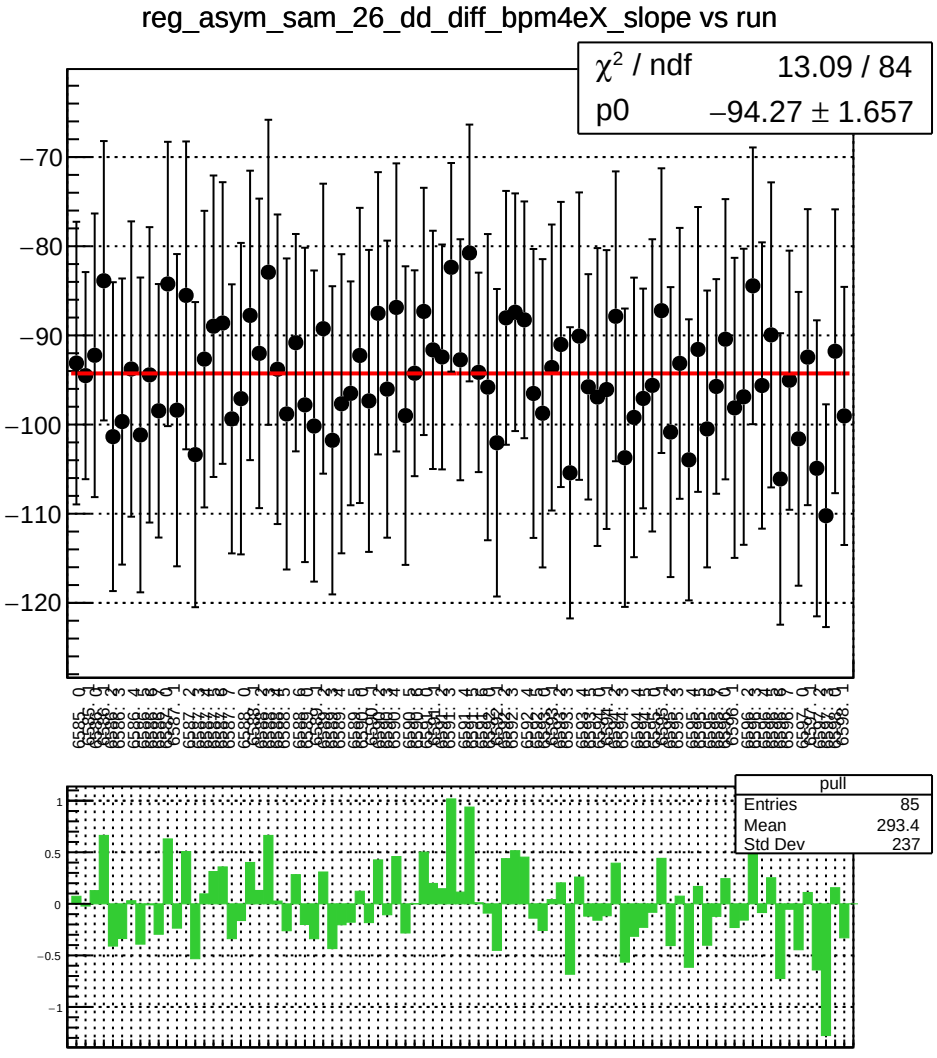

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.07 / 84
p0 −41.56 ± 0.5421
pull
Entries 85
Mean −120.6
Std Dev 198.9
pull1D
Entries 85
Mean −0.01291
Std Dev 0.8264

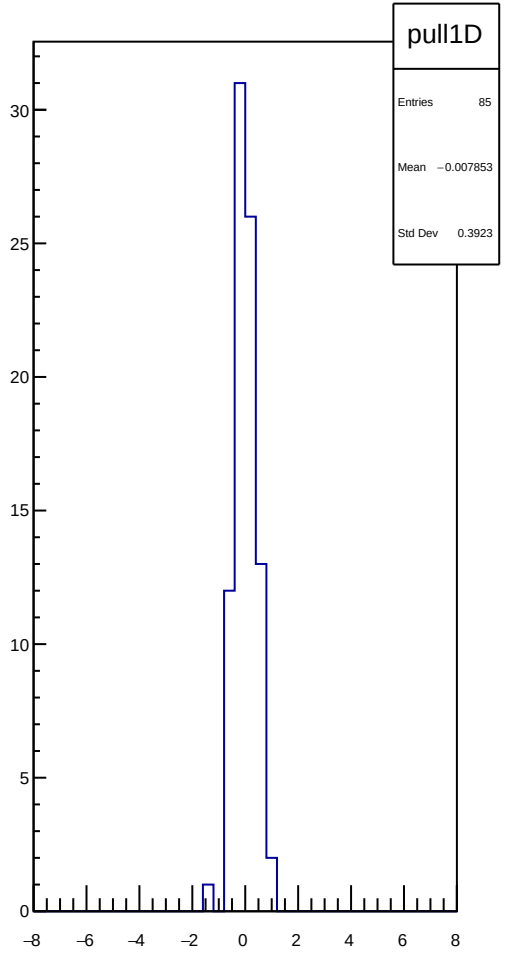

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ^2 / ndf 24.58 / 84
p0 0.722 ± 0.02727
pull
Entries 85
Mean 675.5
Std Dev 631.8
pull1D
Entries 85
Mean −0.00696
Std Dev 0.5377

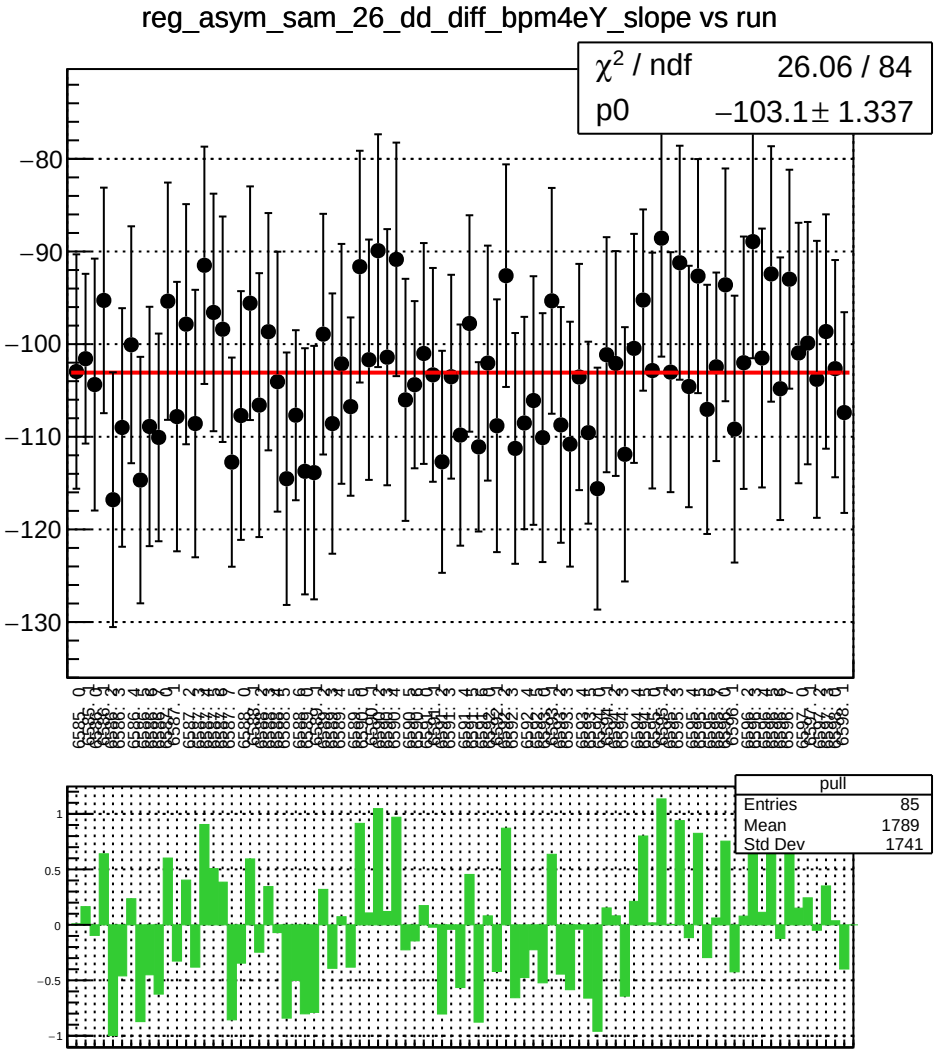

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 12.71 / 84
p0 −39.45 ± 1.559
pull
Entries 85
Mean 258.5
Std Dev 198.9
pull1D
Entries 85
Mean 0.008234
Std Dev 0.3866

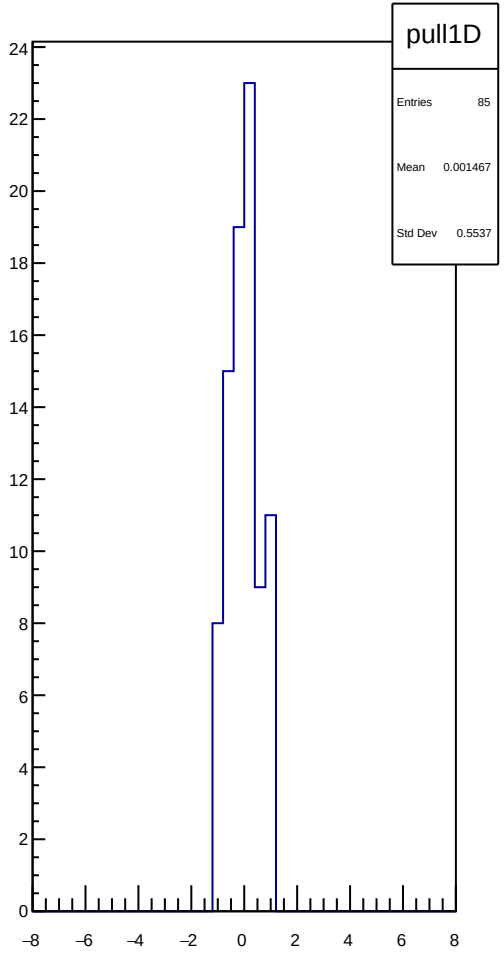

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.34 / 84
p0 −41.47 ± 1.11
pull
Entries 85
Mean −1020
Std Dev 1068

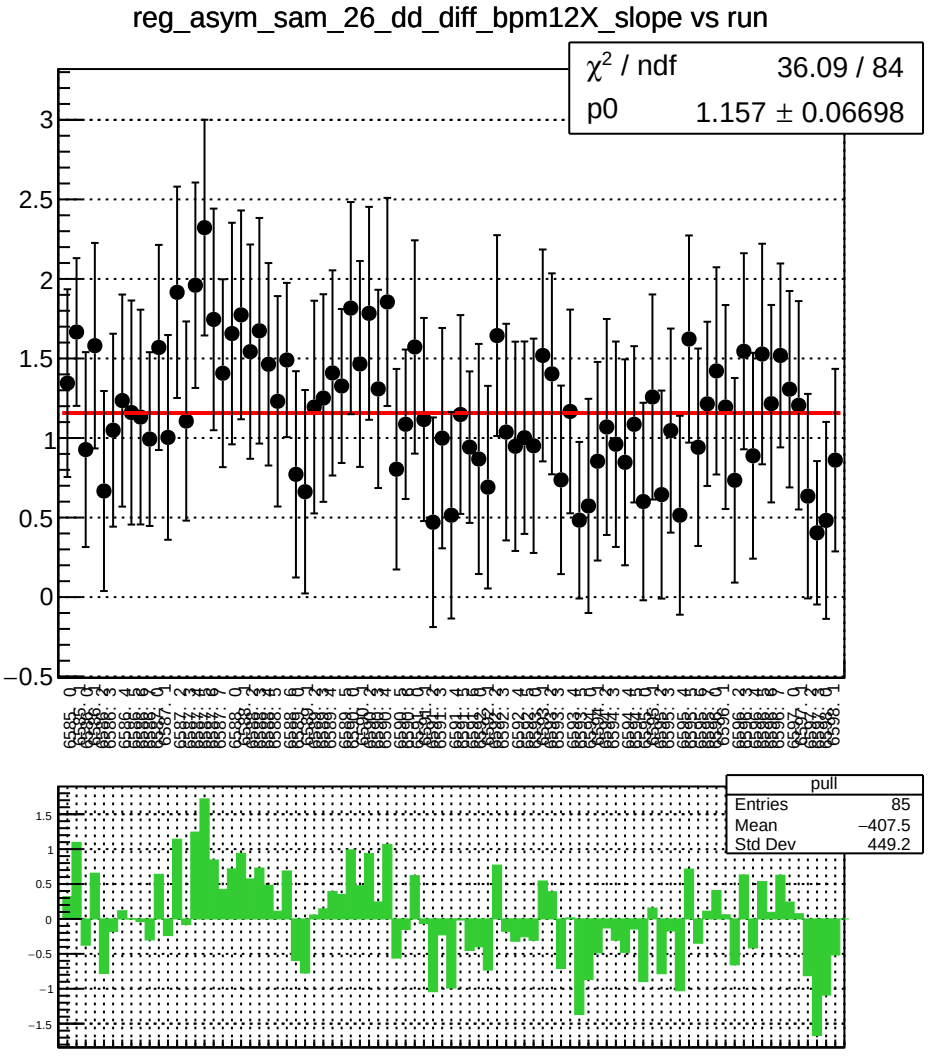

pull1D
Entries 85
Mean 0.002269
Std Dev 0.4384

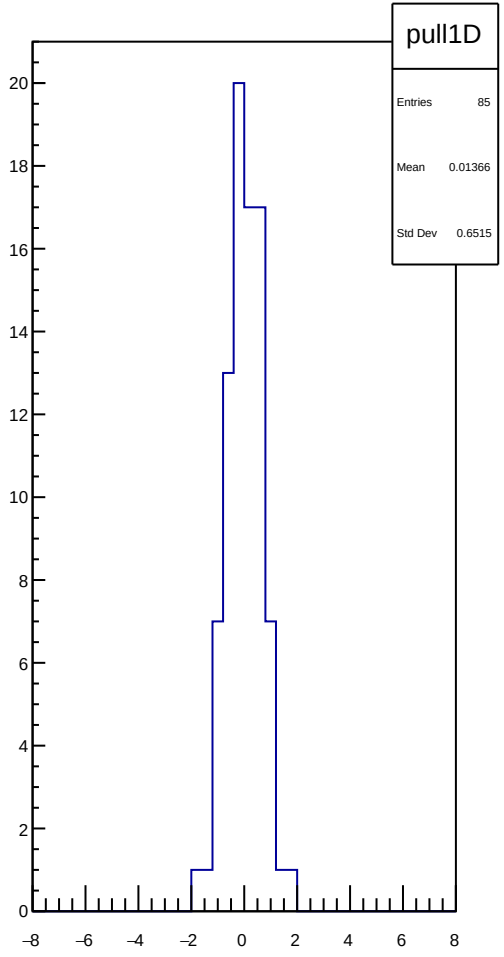

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.09 / 84
p0 −94.27 ± 1.657
−70
−80
−90
−100
−110
−120
pull
Entries 85
Mean 293.4
Std Dev 237
1
0.5
0
−0.5
−1

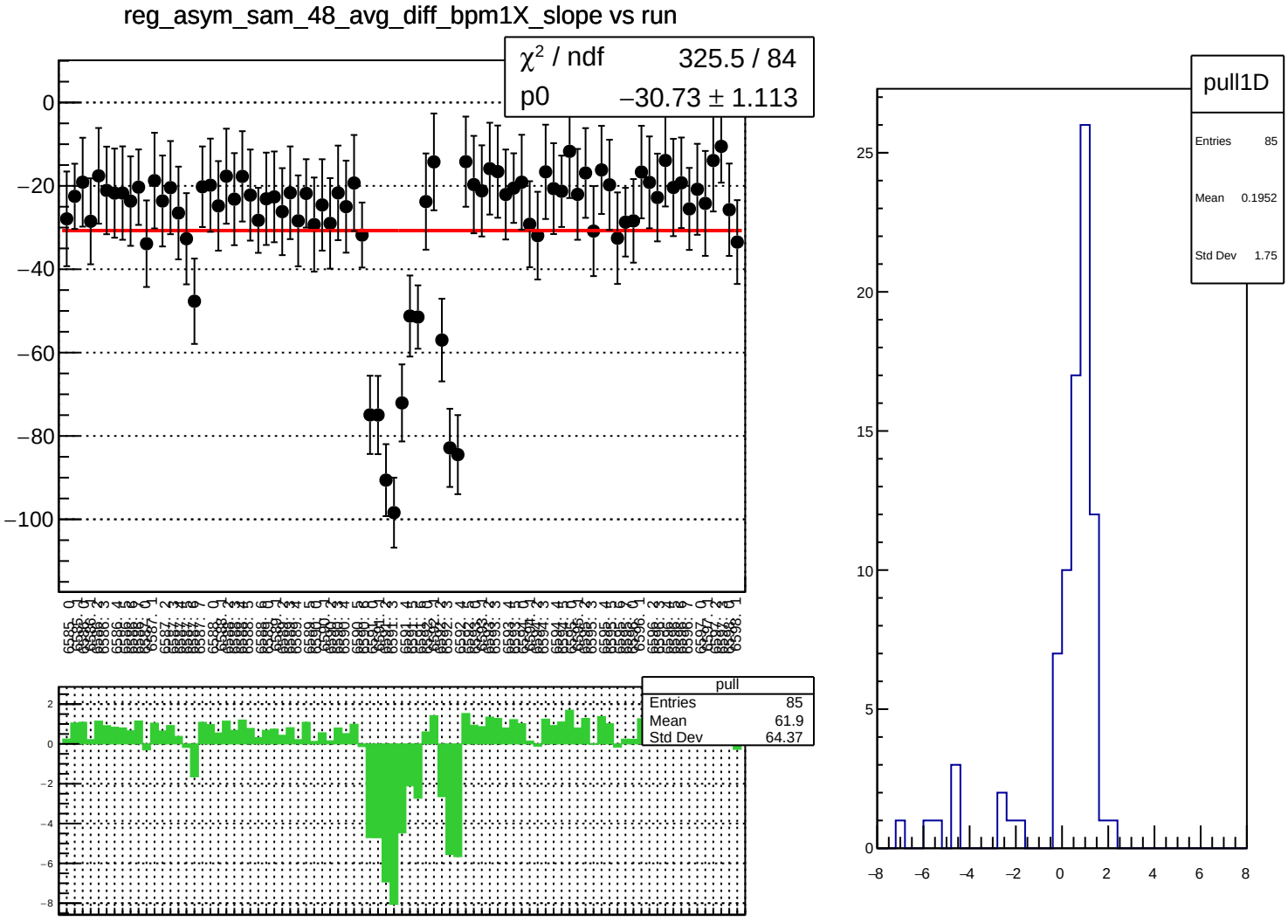

pull1D
Entries 85
Mean −0.007853
Std Dev 0.3923
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

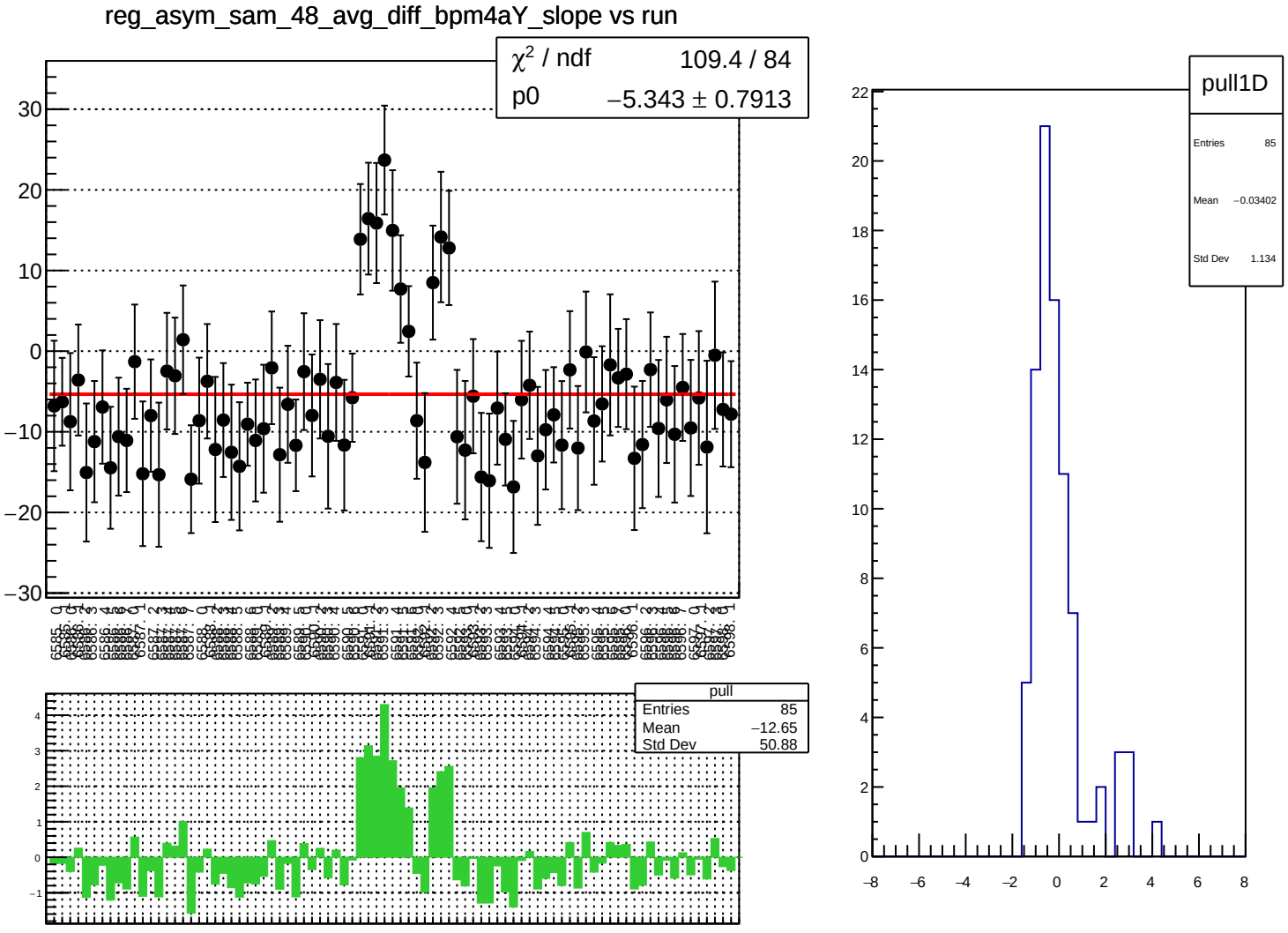

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.06 / 84
p0 −103.1± 1.337
pull
Entries 85
Mean 1789
Std Dev 1741

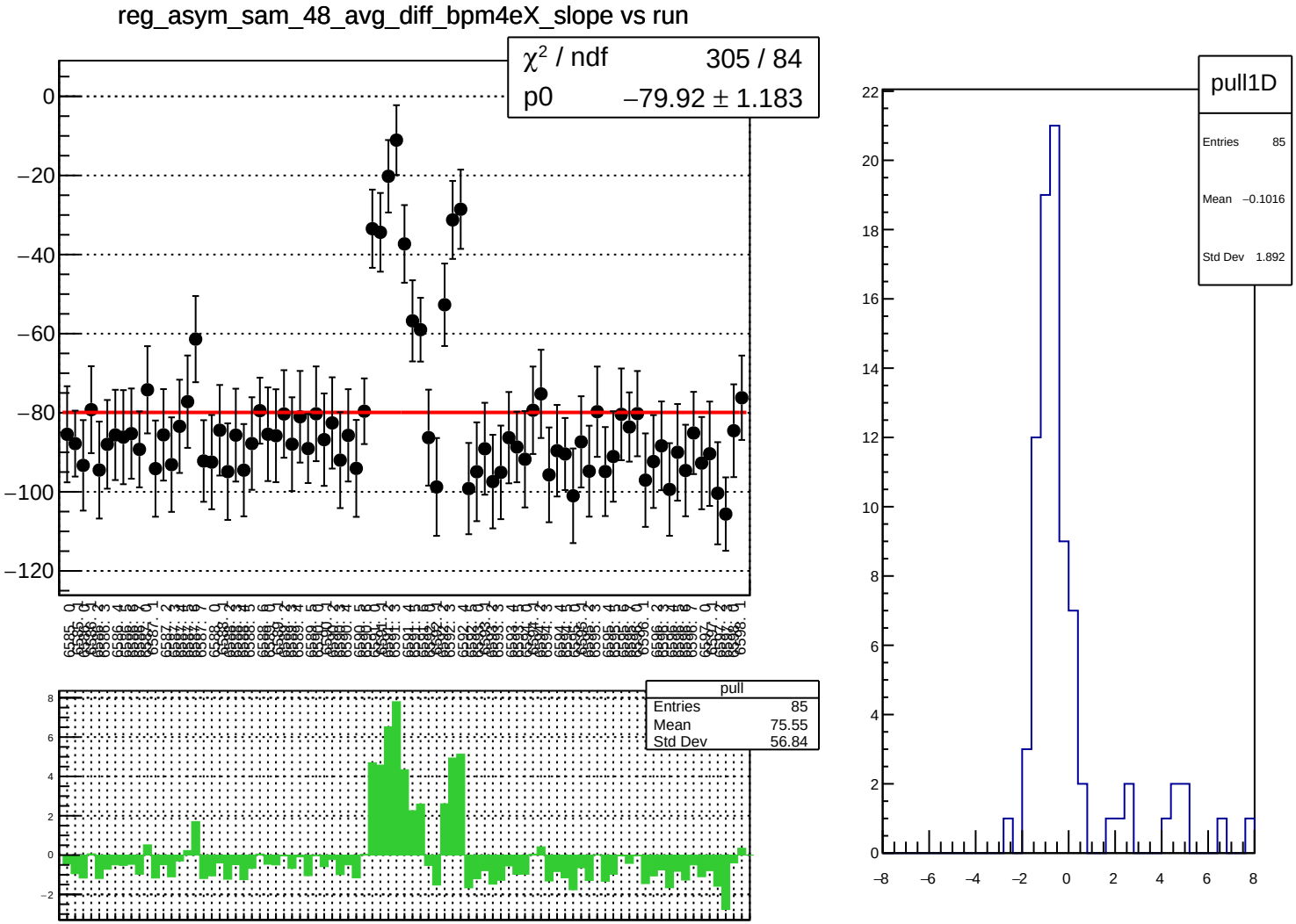

pull1D
Entries 85
Mean 0.001467
Std Dev 0.5537

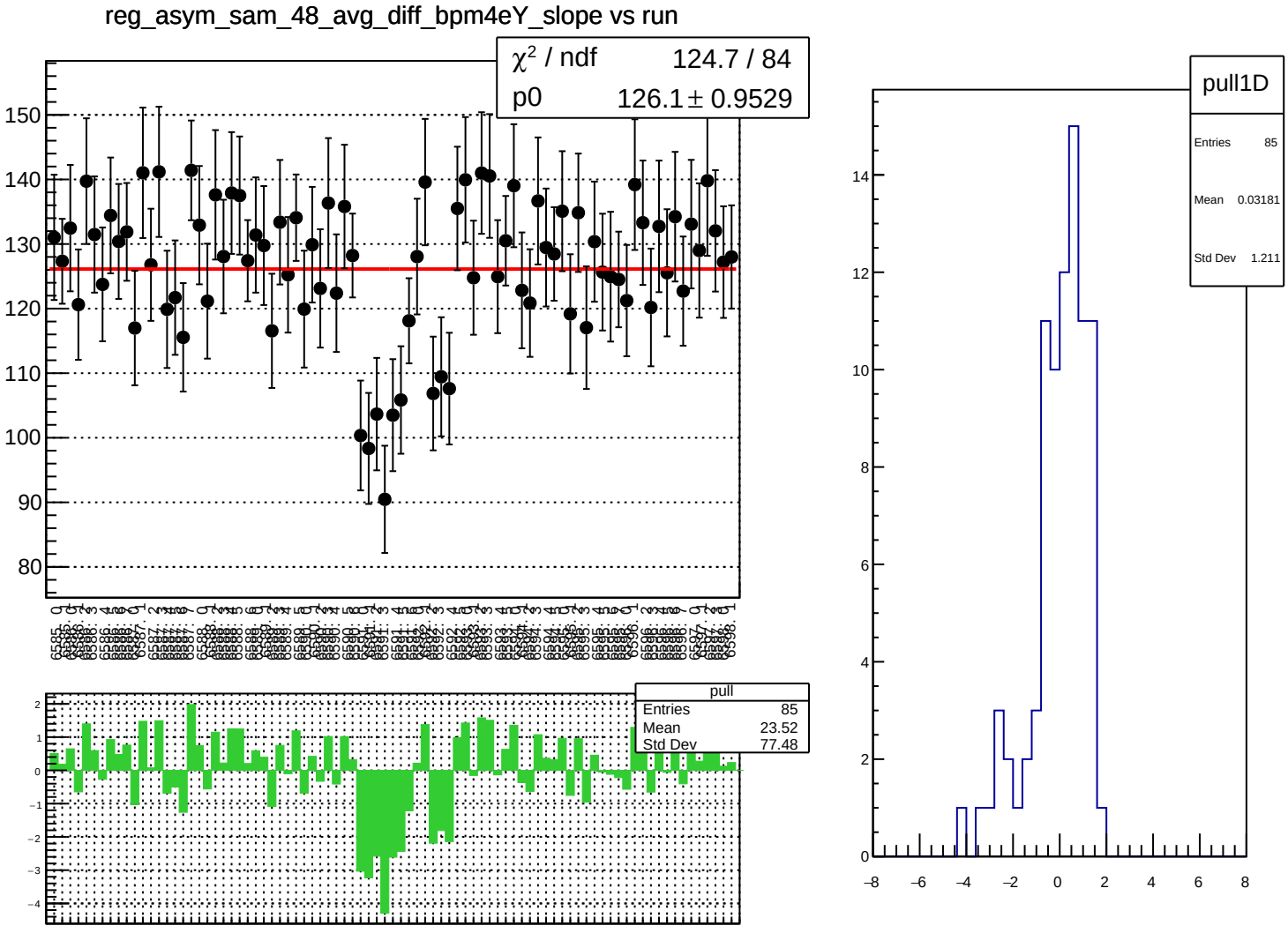

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 36.09 / 84
p0 1.157 ± 0.06698
pull
Entries 85
Mean −407.5
Std Dev 449.2

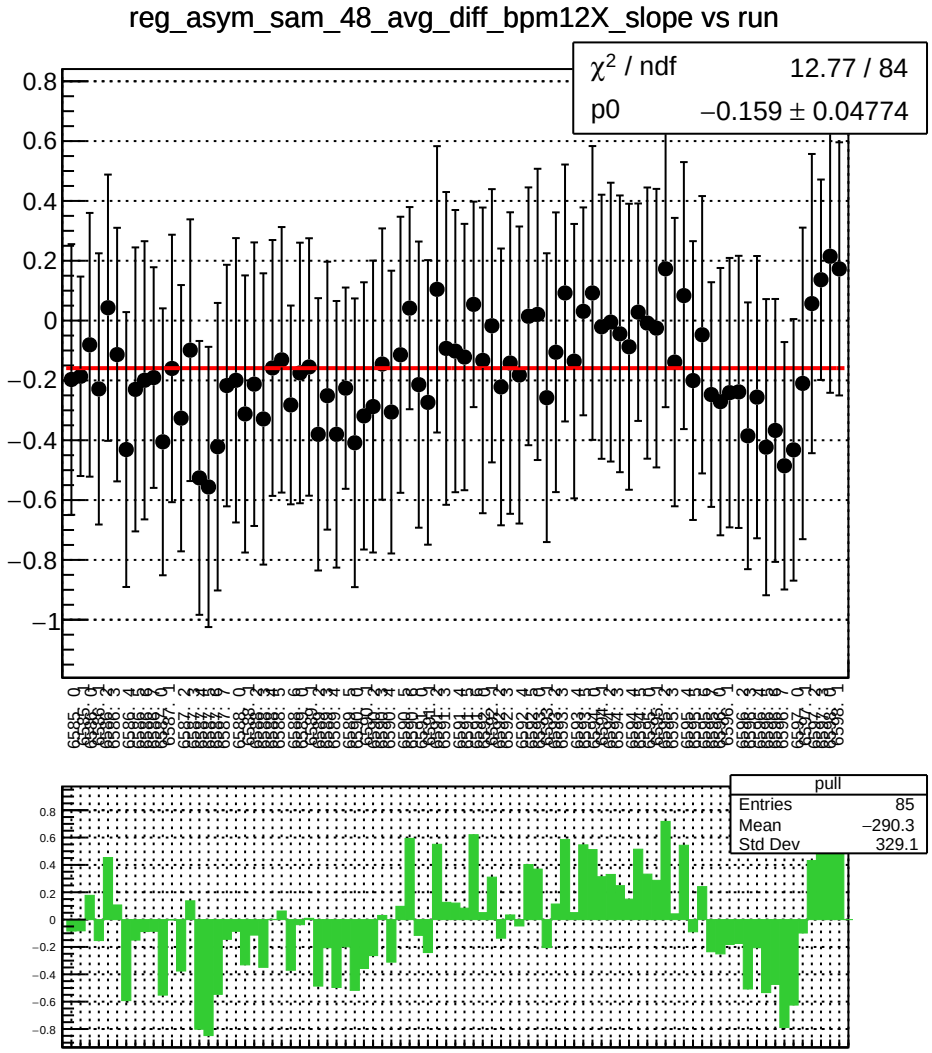

pull1D
Entries 85
Mean 0.01366
Std Dev 0.6515

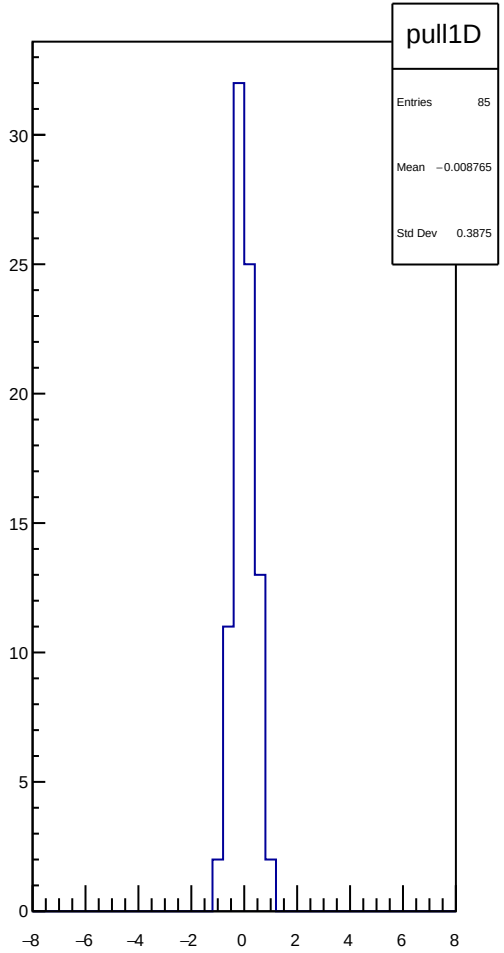

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 325.5 / 84
p0 −30.73 ± 1.113
pull
Entries 85
Mean 61.9
Std Dev 64.37
pull1D
Entries 85
Mean 0.1952
Std Dev 1.75

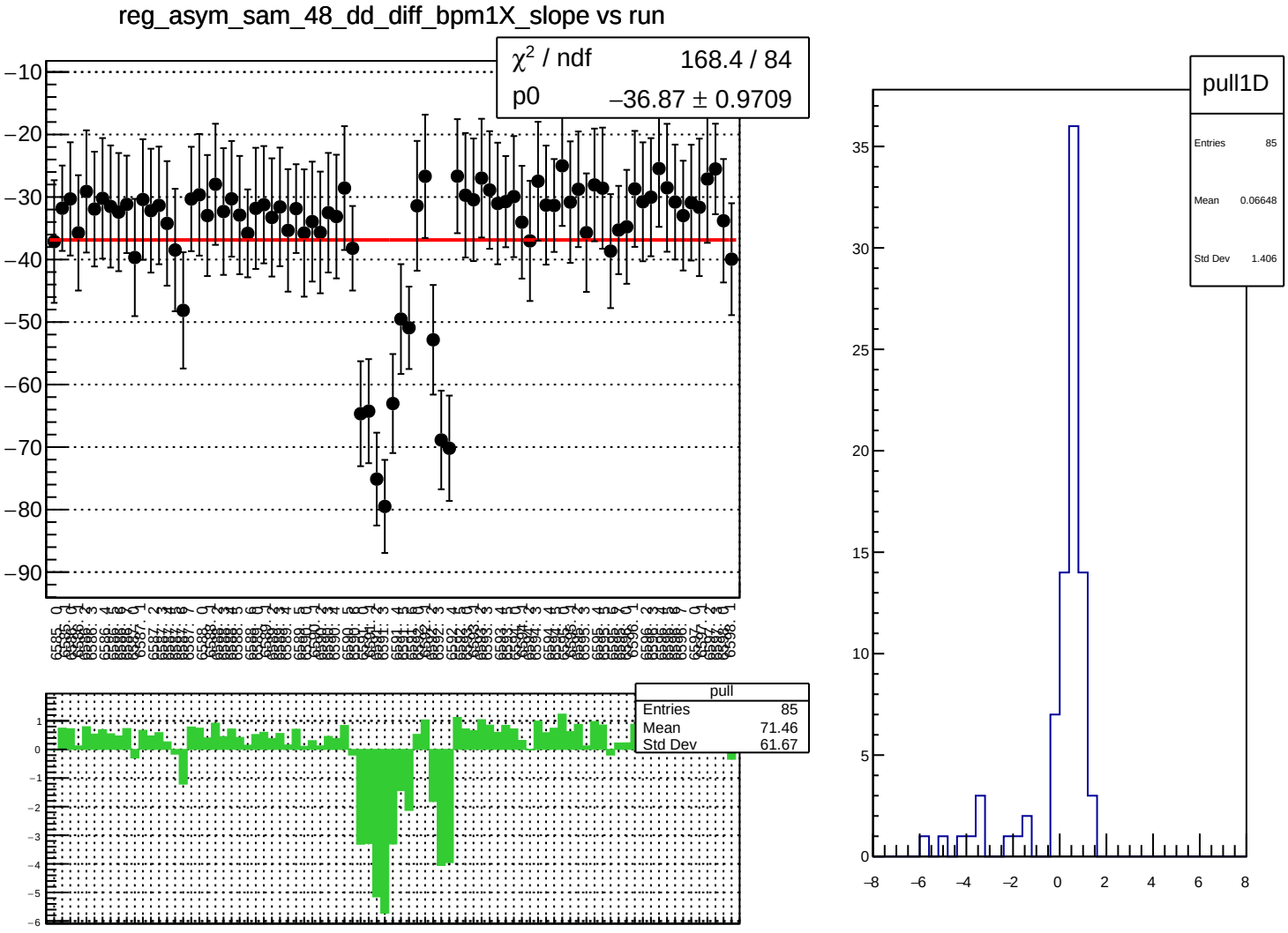

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 109.4 / 84
p0 −5.343 ± 0.7913
pull
Entries 85
Mean −12.65
Std Dev 50.88
pull1D
Entries 85
Mean −0.03402
Std Dev 1.134

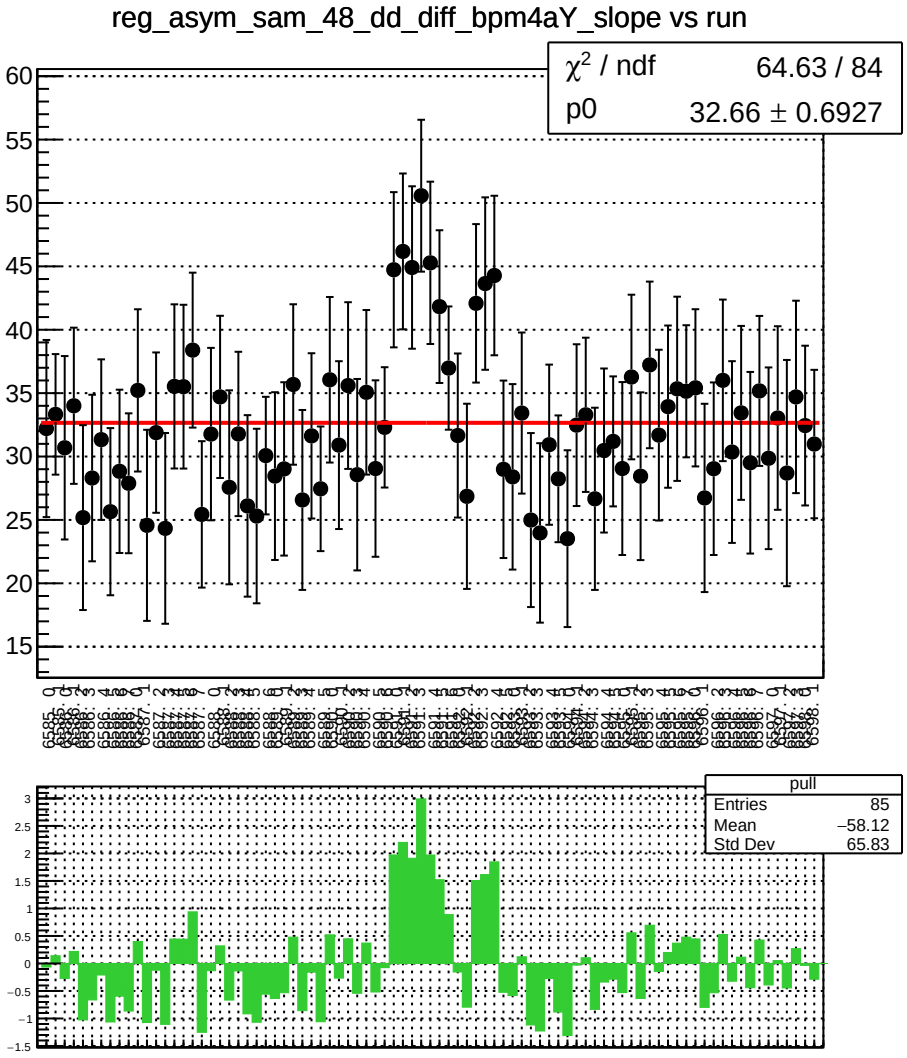

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 305 / 84
p0 −79.92 ± 1.183
pull
Entries 85
Mean 75.55
Std Dev 56.84
pull1D
Entries 85
Mean −0.1016
Std Dev 1.892

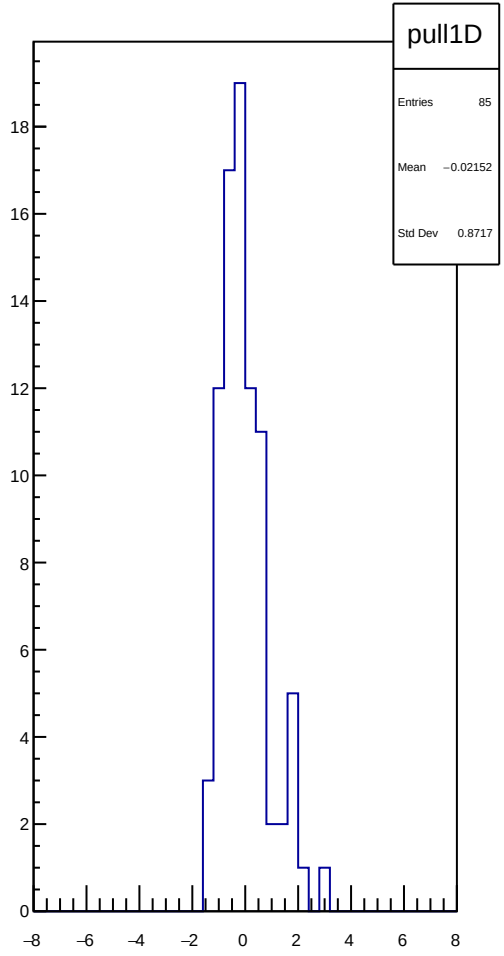

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 124.7 / 84
p0 126.1 ± 0.9529
pull
Entries 85
Mean 23.52
Std Dev 77.48
pull1D
Entries 85
Mean 0.03181
Std Dev 1.211

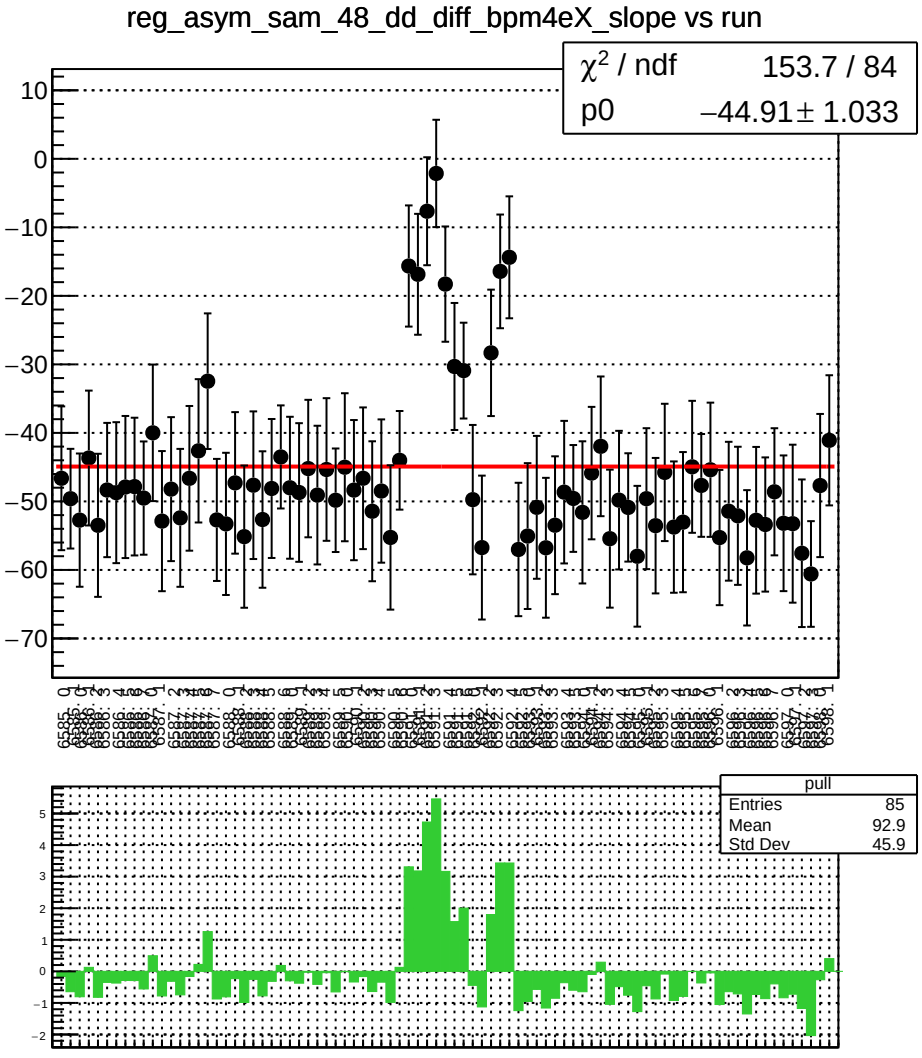

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 12.77 / 84
p0 −0.159 ± 0.04774
pull
Entries 85
Mean −290.3
Std Dev 329.1

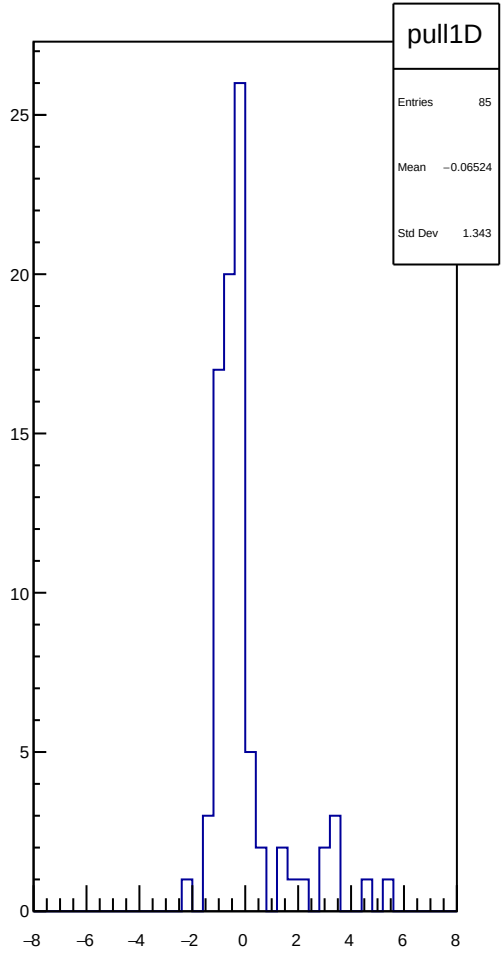

pull1D
Entries 85
Mean −0.008765
Std Dev 0.3875

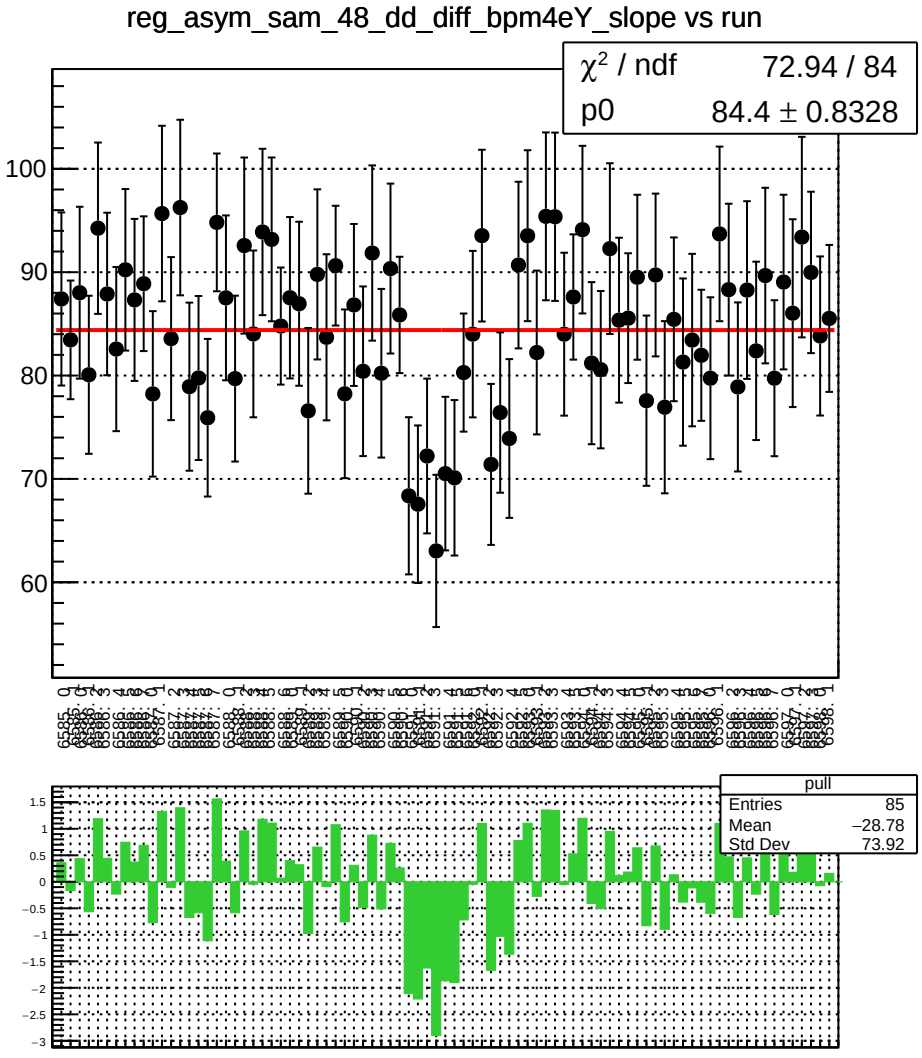

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 168.4 / 84
p0 −36.87 ± 0.9709
pull
Entries 85
Mean 71.46
Std Dev 61.67
pull1D
Entries 85
Mean 0.06648
Std Dev 1.406

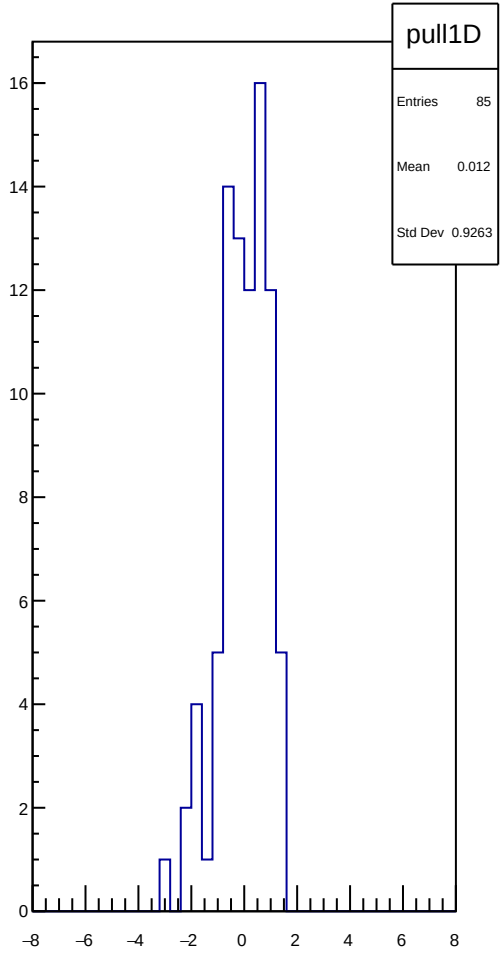

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.63 / 84
p0 32.66 ± 0.6927
pull
Entries 85
Mean −58.12
Std Dev 65.83

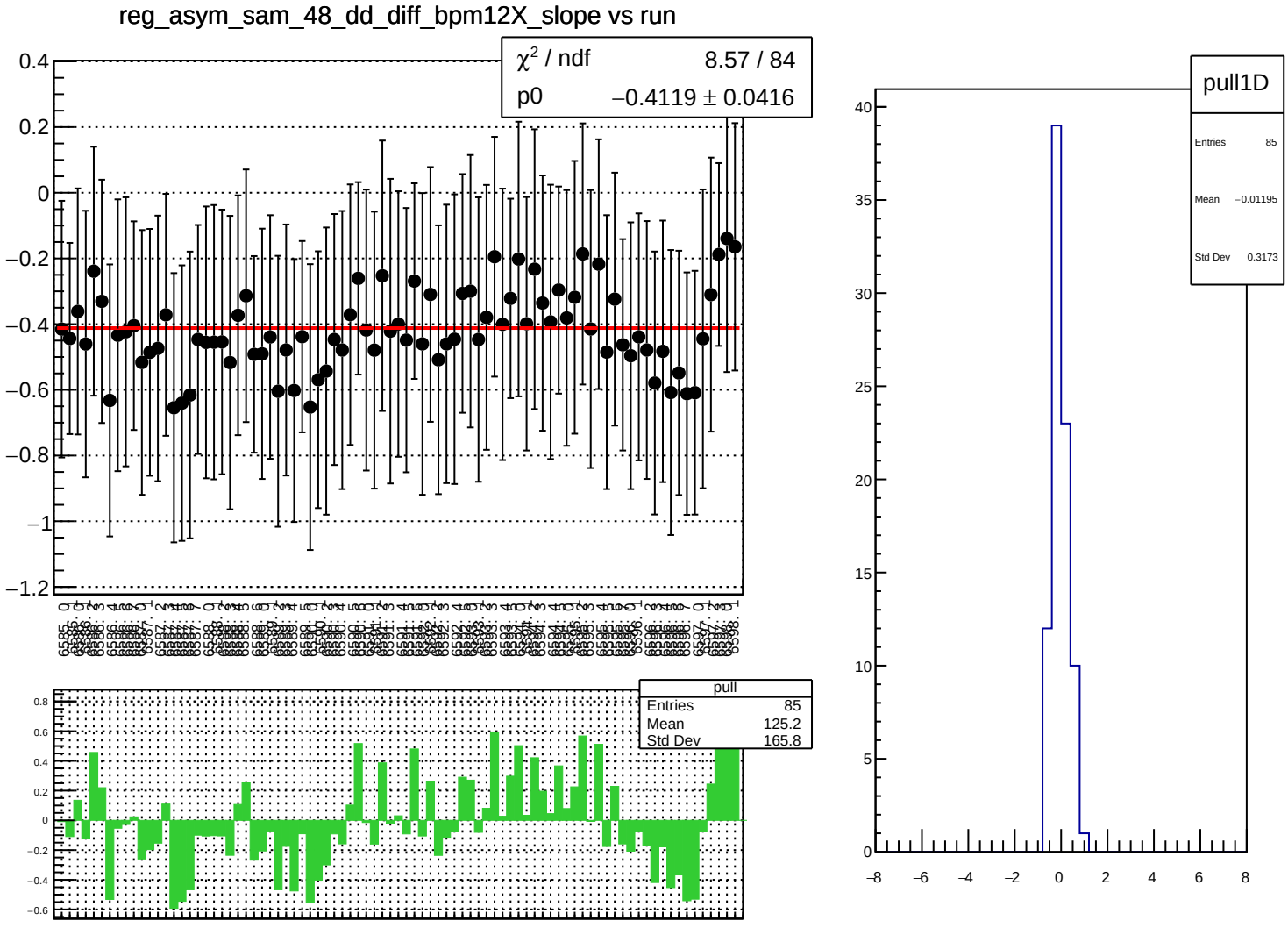

pull1D
Entries 85
Mean −0.02152
Std Dev 0.8717

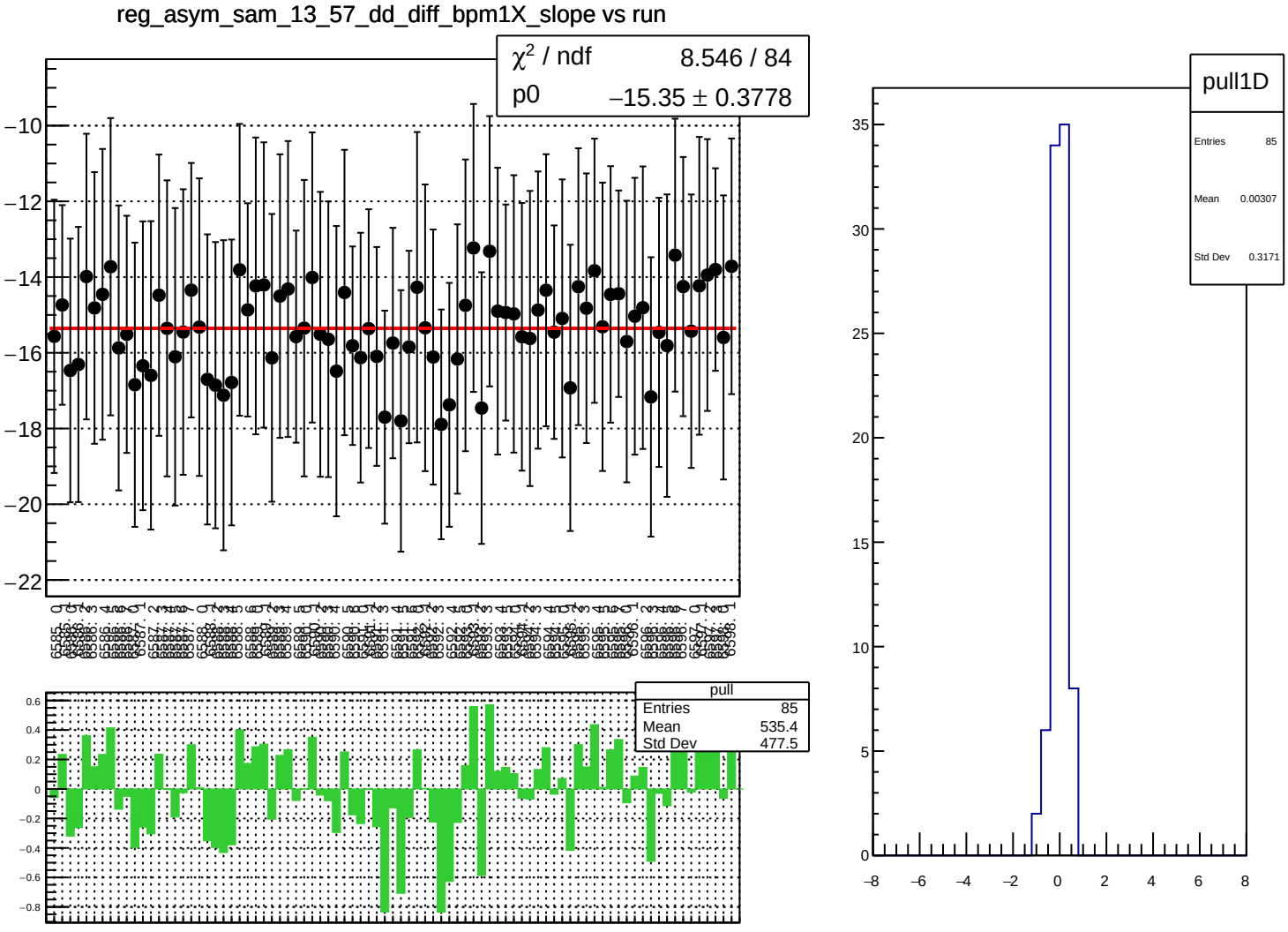

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 153.7 / 84
p0 −44.91 ± 1.033
pull
Entries 85
Mean 92.9
Std Dev 45.9

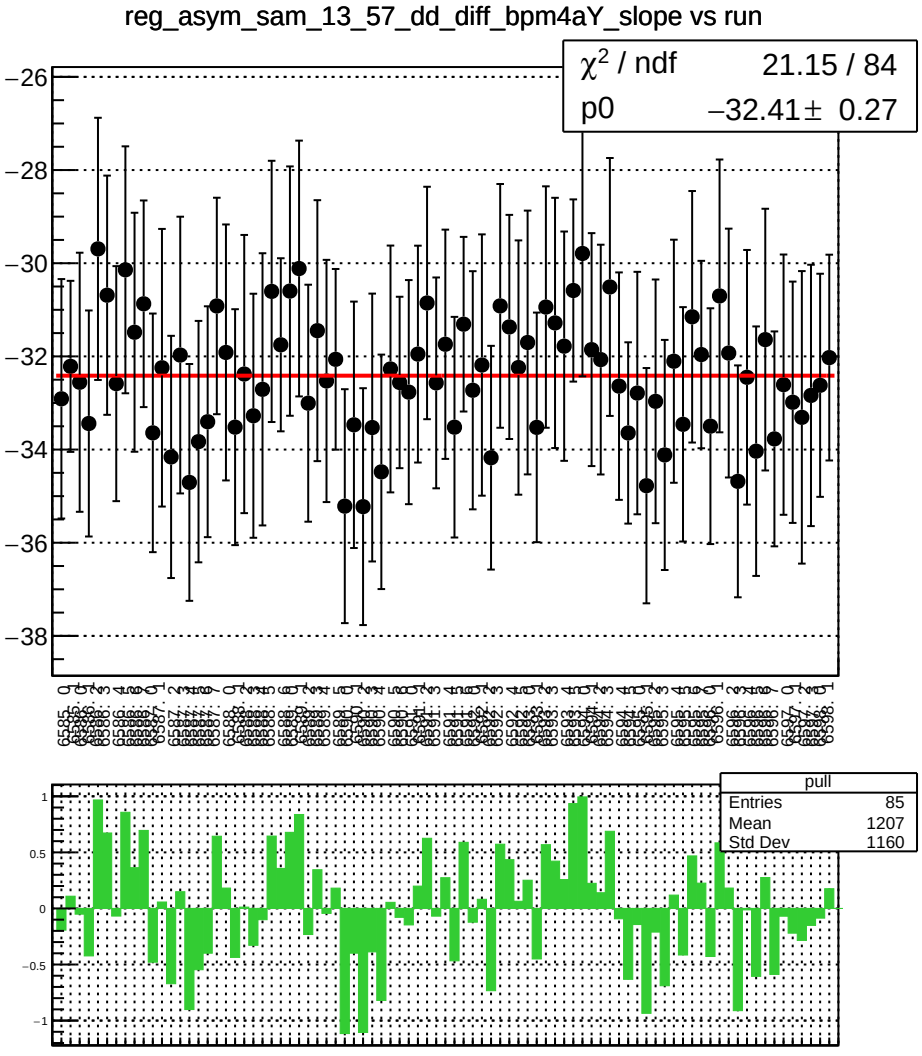

pull1D
Entries 85
Mean −0.06524
Std Dev 1.343

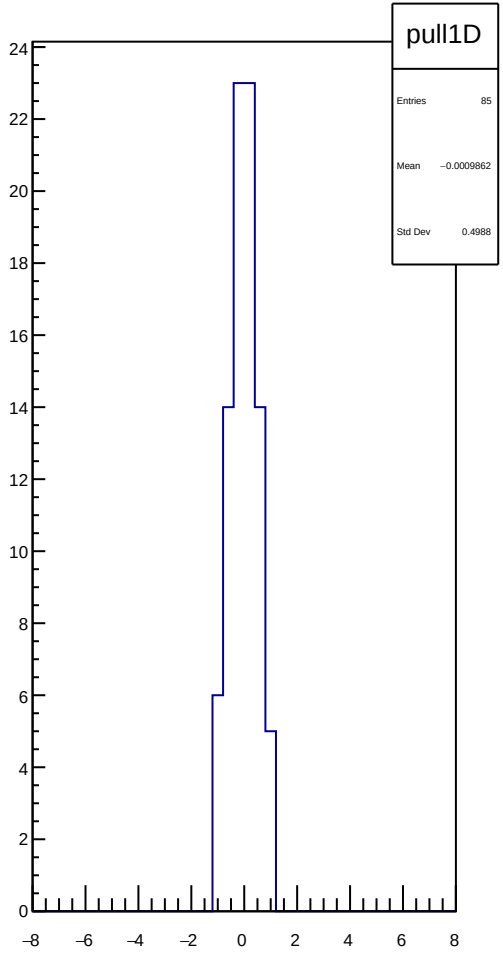

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.94 / 84
p0 84.4 ± 0.8328
pull
Entries 85
Mean −28.78
Std Dev 73.92

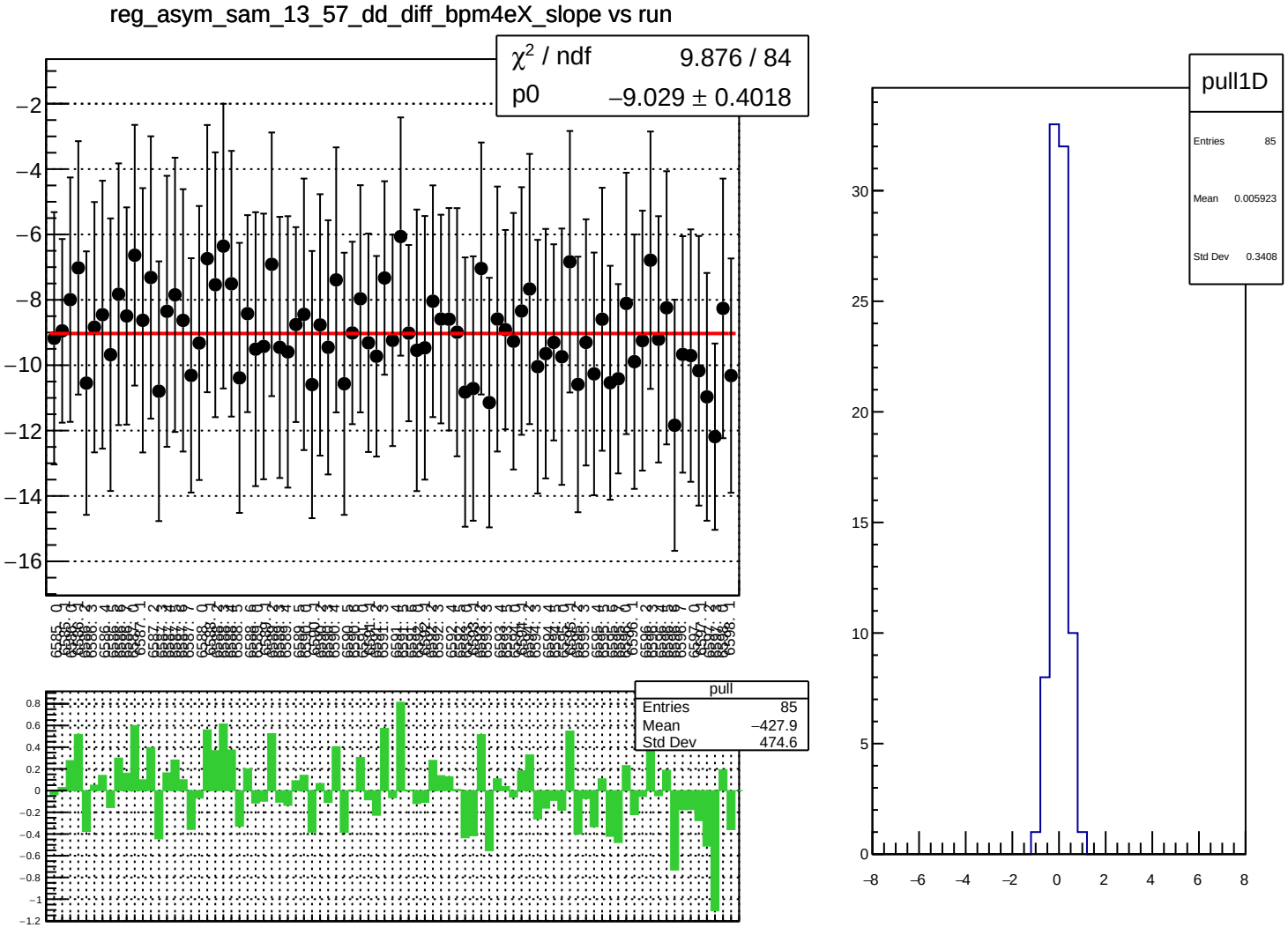

pull1D
Entries 85
Mean 0.012
Std Dev 0.9263

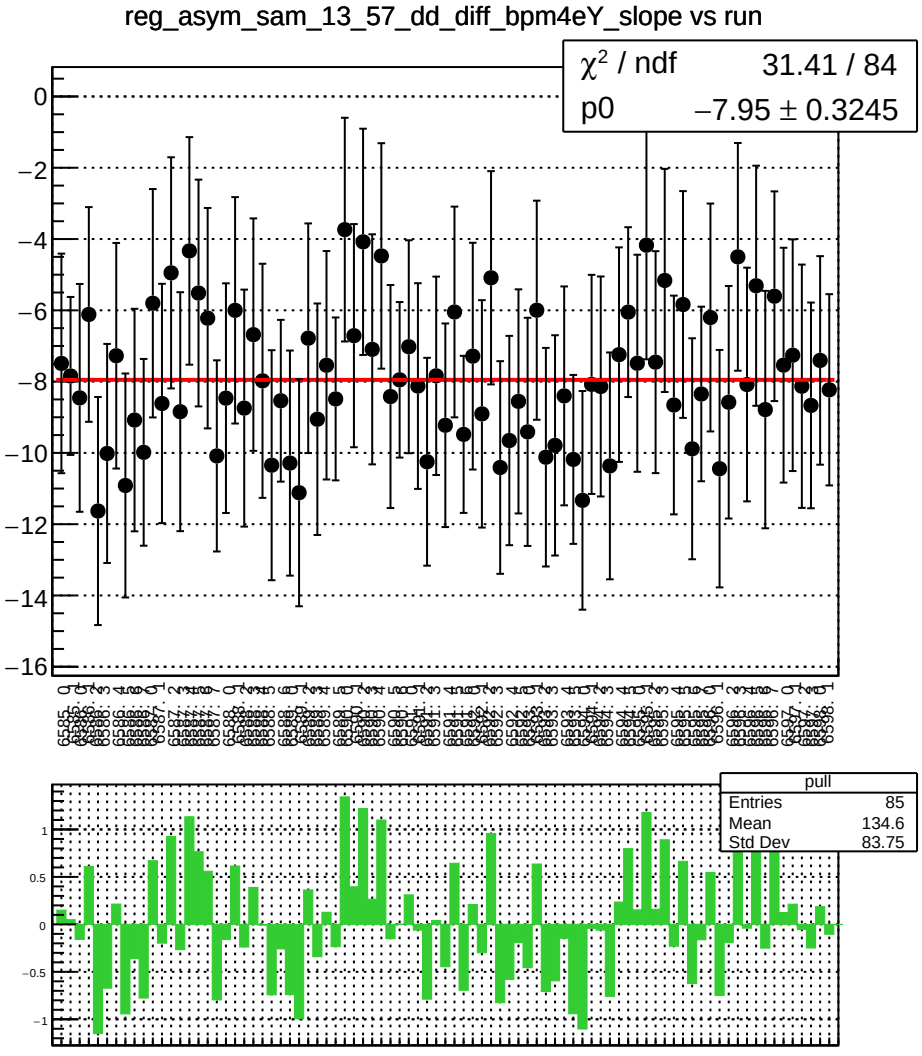

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.57 / 84
p0 −0.4119 ± 0.0416
pull
Entries 85
Mean −125.2
Std Dev 165.8
pull1D
Entries 85
Mean −0.01195
Std Dev 0.3173

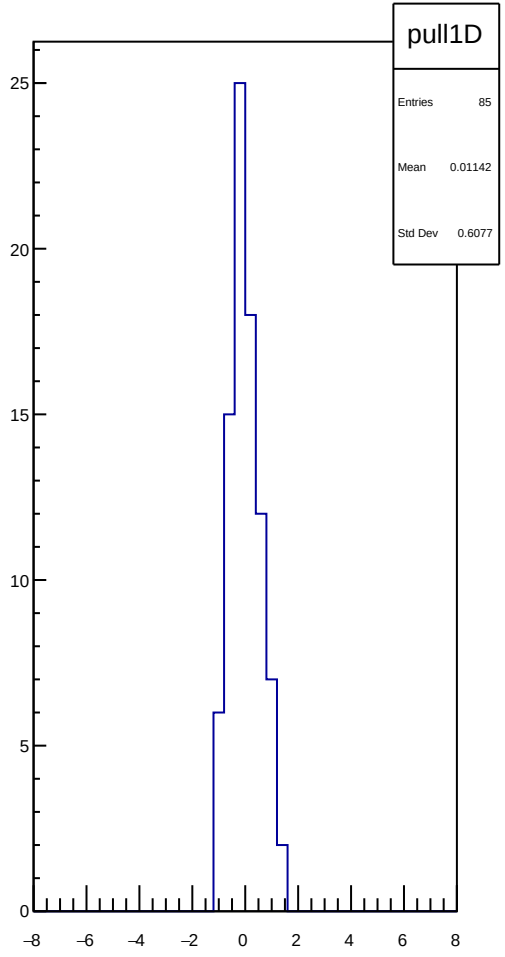

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 8.546 / 84
p0 −15.35 ± 0.3778
pull
Entries 85
Mean 535.4
Std Dev 477.5
pull1D
Entries 85
Mean 0.00307
Std Dev 0.3171

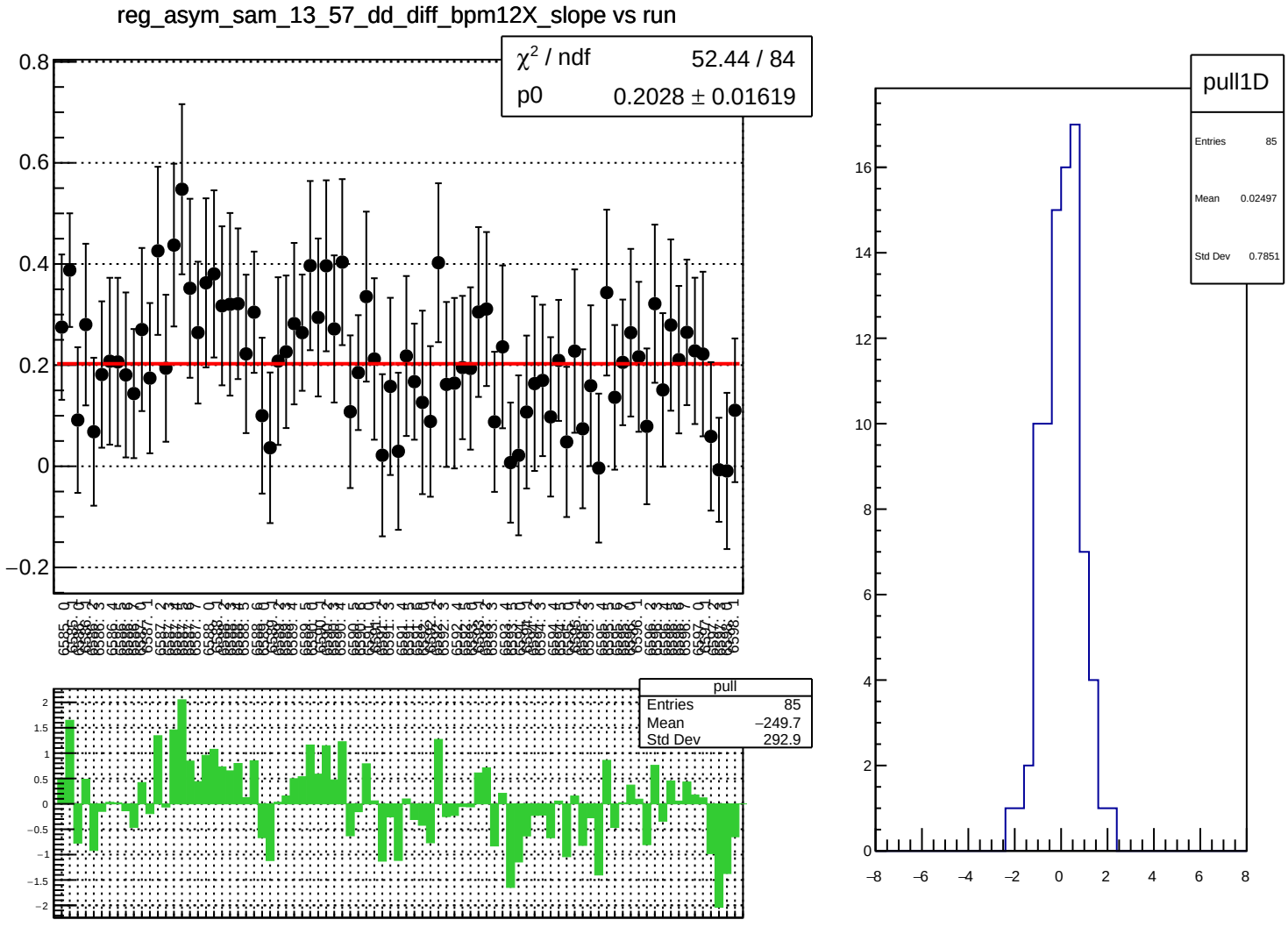

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.15 / 84
p0 −32.41 ± 0.27
pull
Entries 85
Mean 1207
Std Dev 1160


pull1D
Entries 85
Mean −0.0009862
Std Dev 0.4988

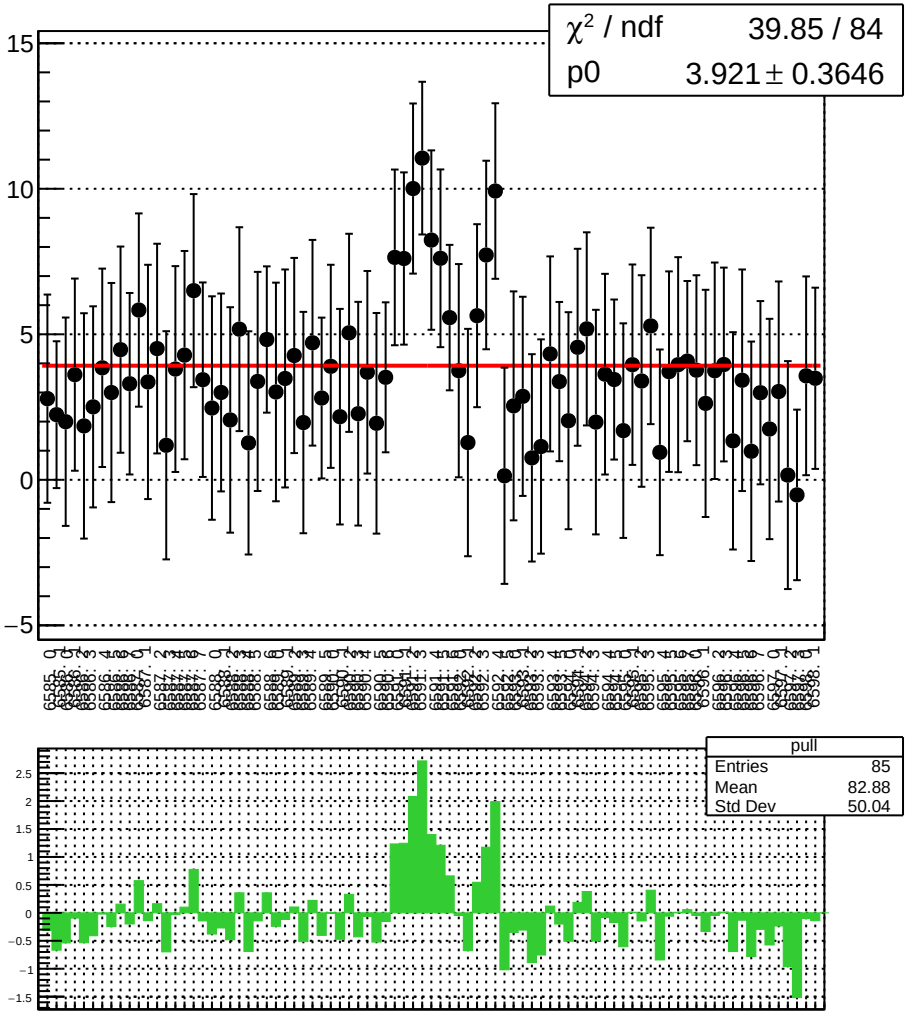

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 9.876 / 84
p0 −9.029 ± 0.4018
pull
Entries 85
Mean −427.9
Std Dev 474.6
pull1D
Entries 85
Mean 0.005923
Std Dev 0.3408

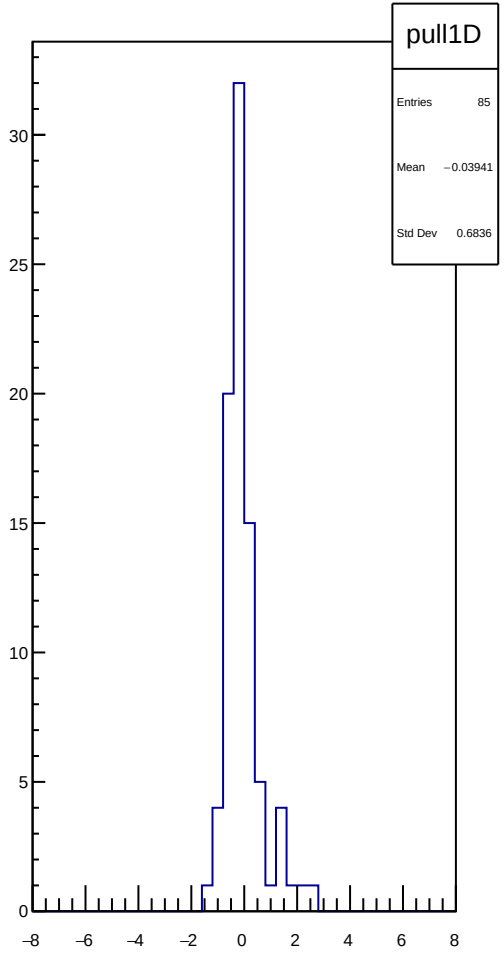

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 31.41 / 84
p0 -7.95 ± 0.3245
pull
Entries 85
Mean 134.6
Std Dev 83.75

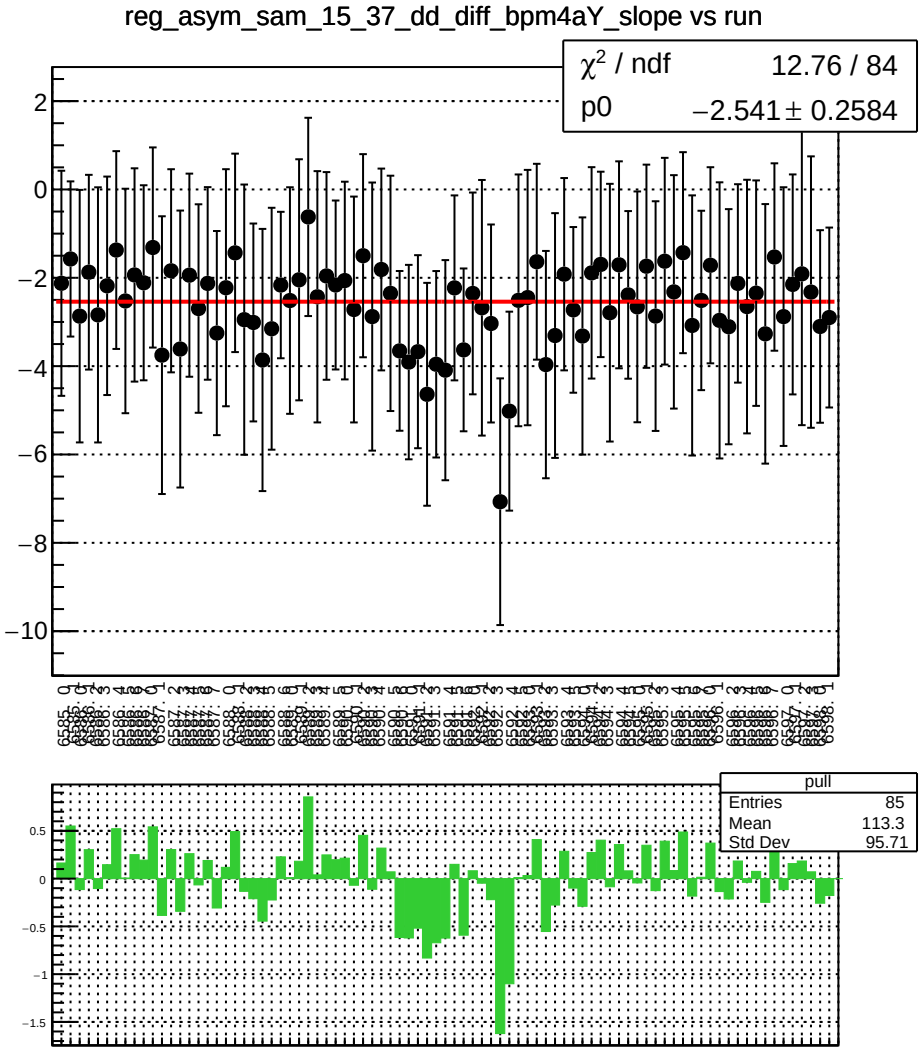

pull1D
Entries 85
Mean 0.01142
Std Dev 0.6077

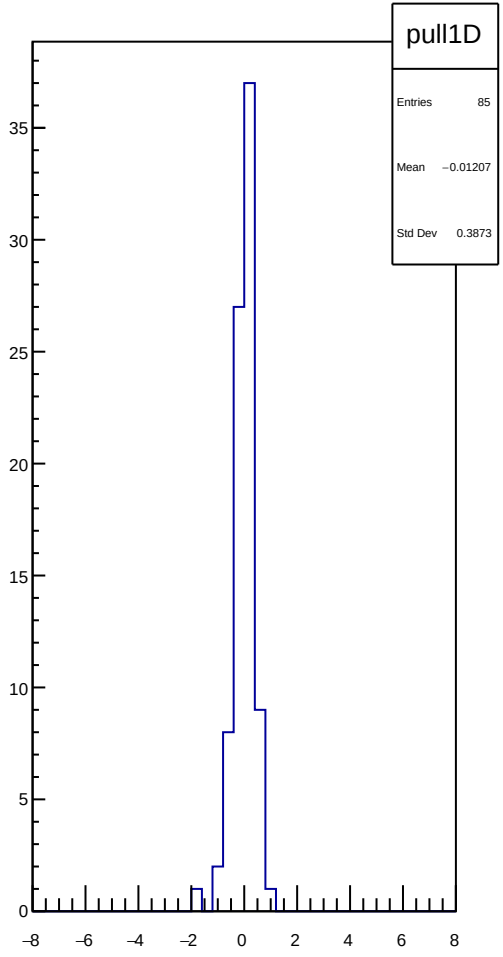

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 52.44 / 84
p0 0.2028 ± 0.01619
pull
Entries 85
Mean −249.7
Std Dev 292.9
pull1D
Entries 85
Mean 0.02497
Std Dev 0.7851

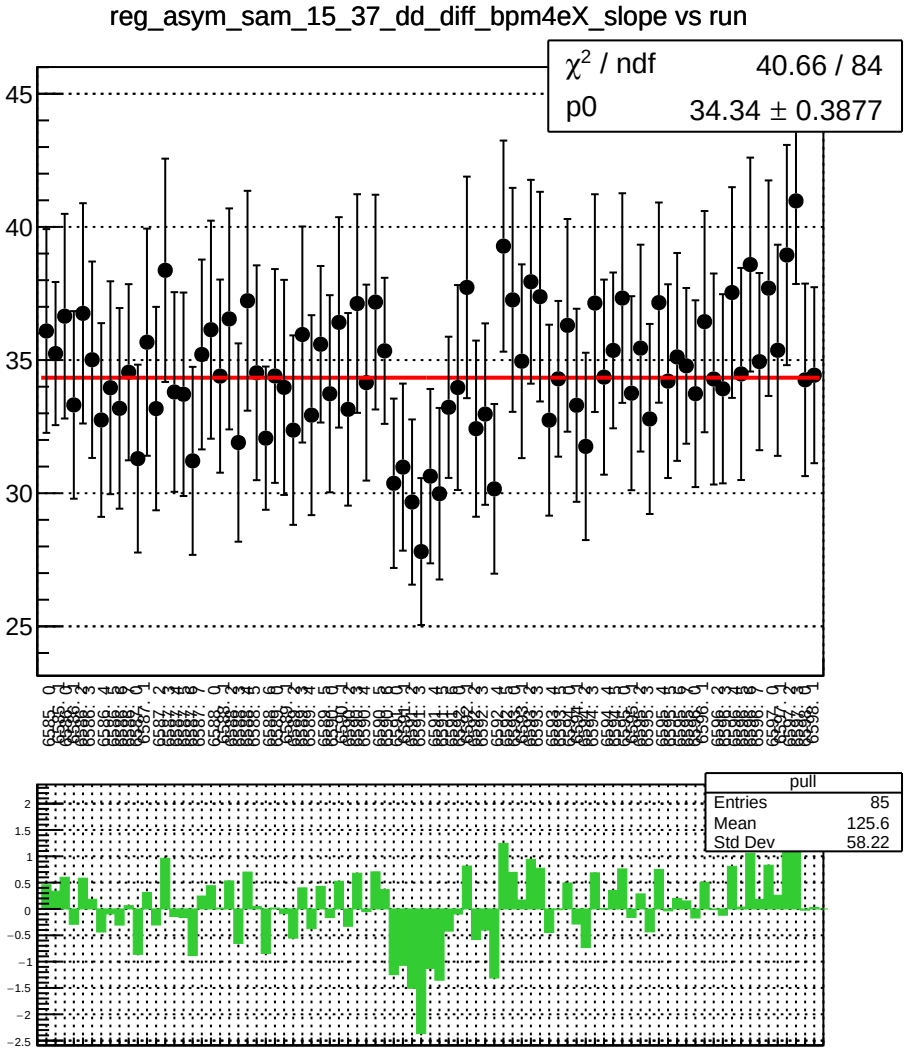
reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run

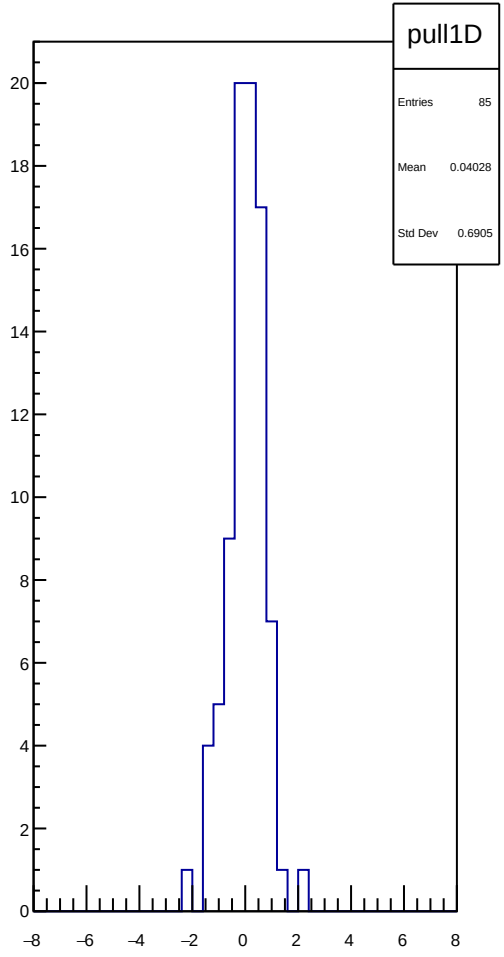


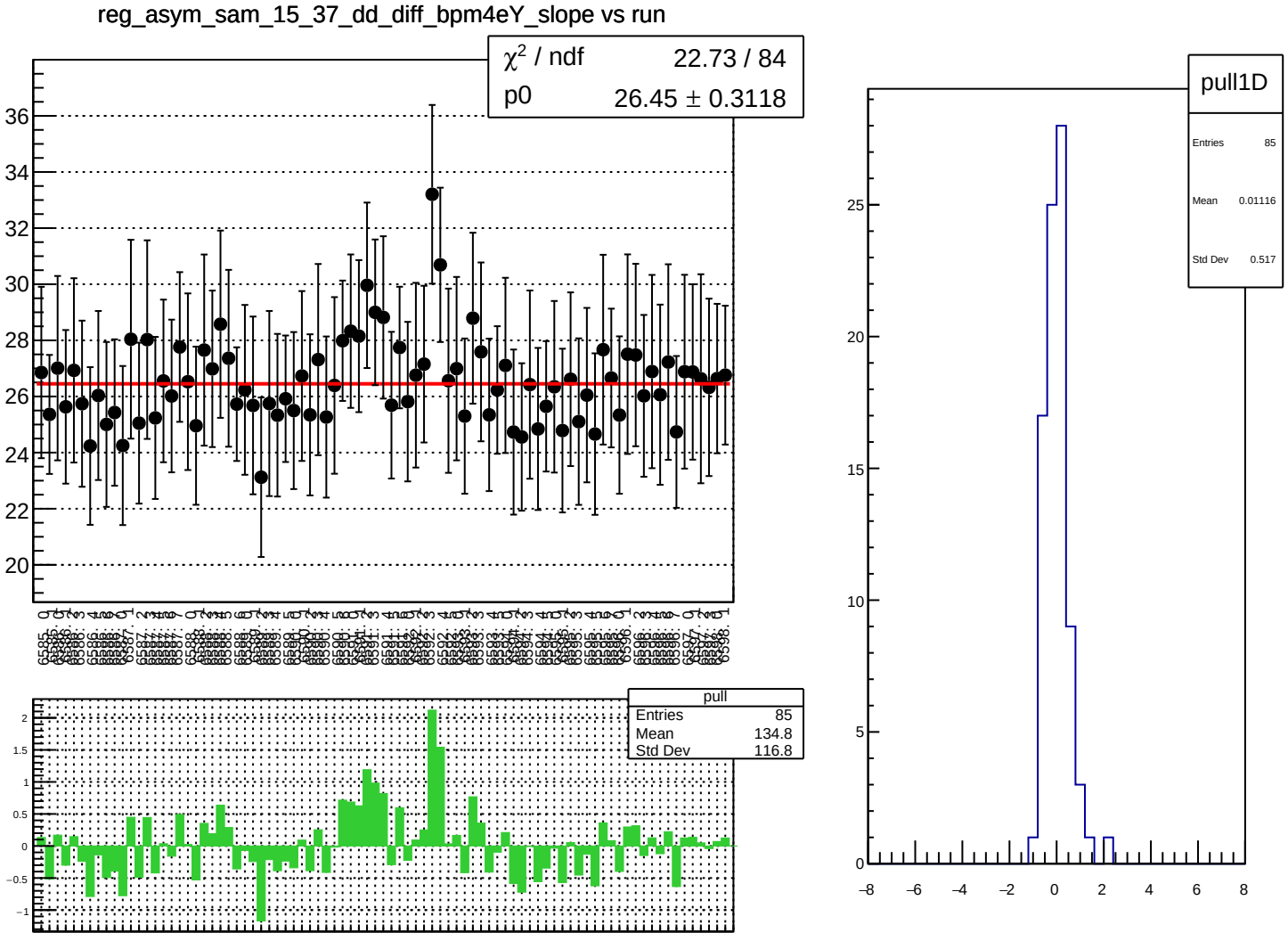


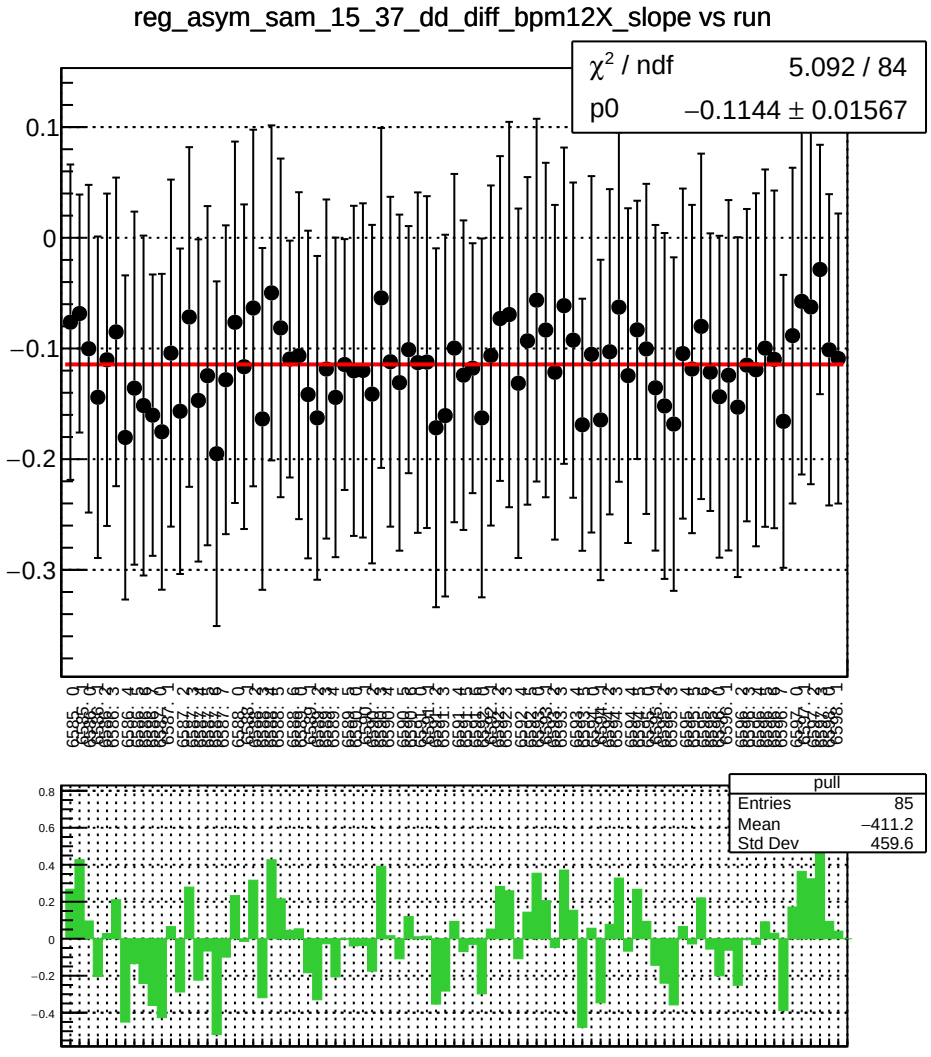

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.76 / 84
p0 −2.541 ± 0.2584
pull
Entries 85
Mean 113.3
Std Dev 95.71

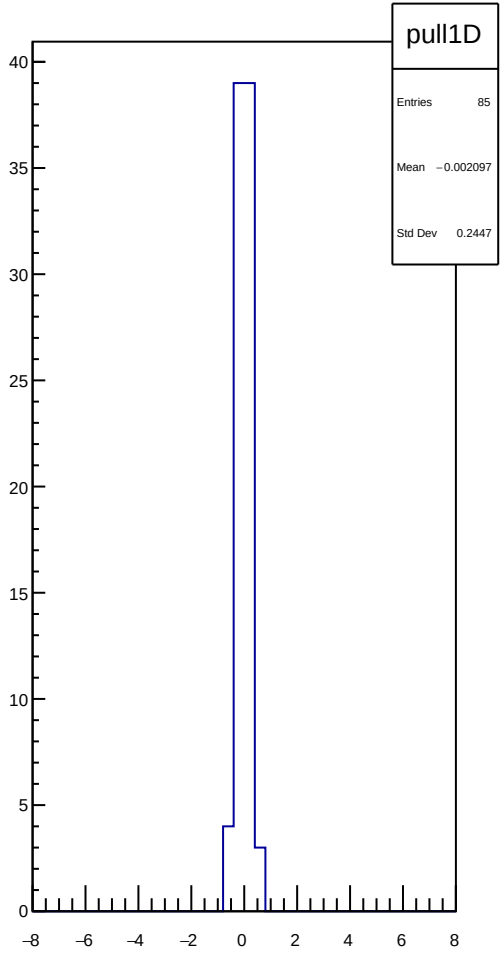

pull1D
Entries 85
Mean −0.01207
Std Dev 0.3873

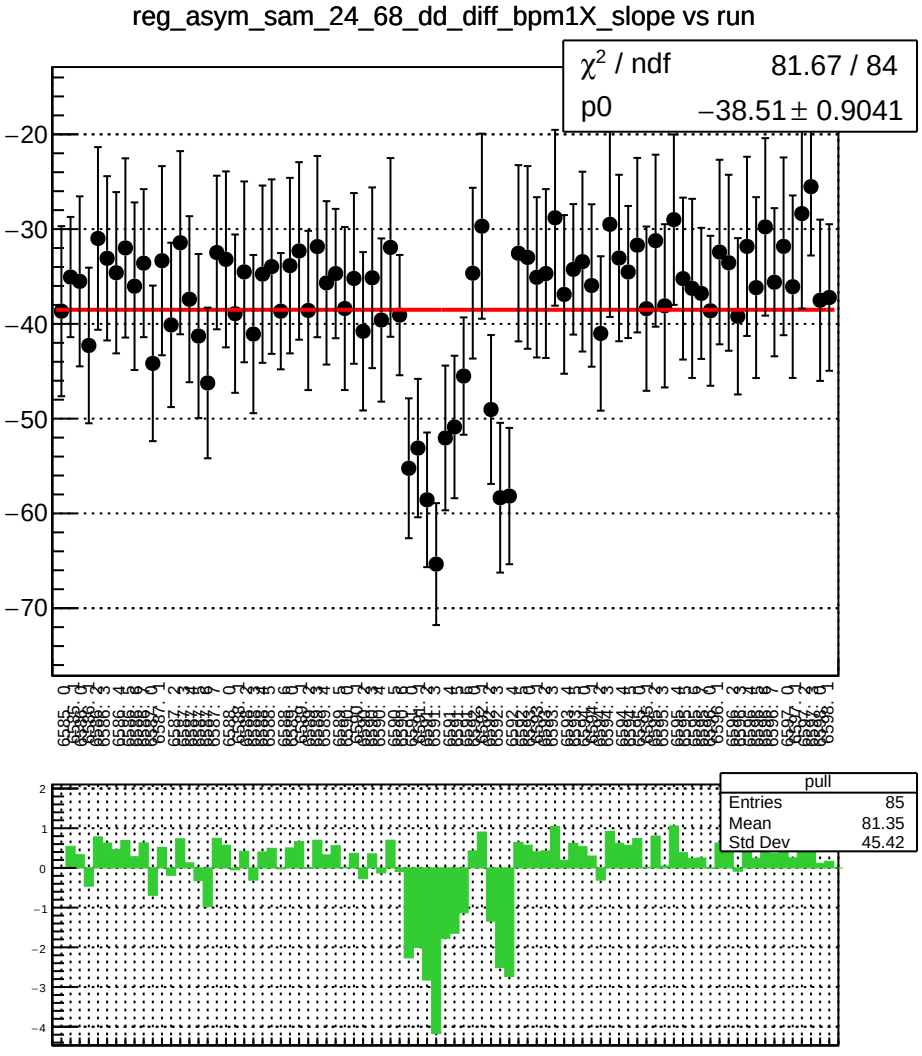

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.66 / 84
p0 34.34 ± 0.3877
pull
Entries 85
Mean 125.6
Std Dev 58.22

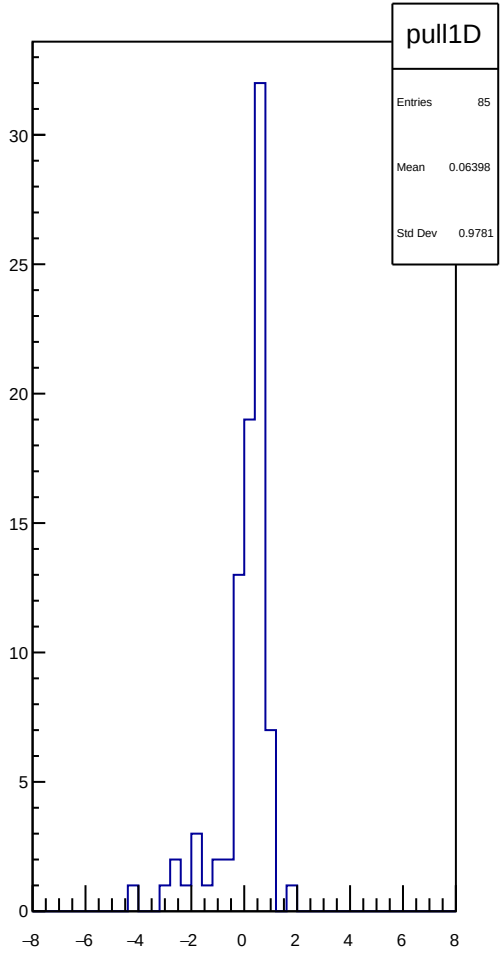

pull1D
Entries 85
Mean 0.04028
Std Dev 0.6905

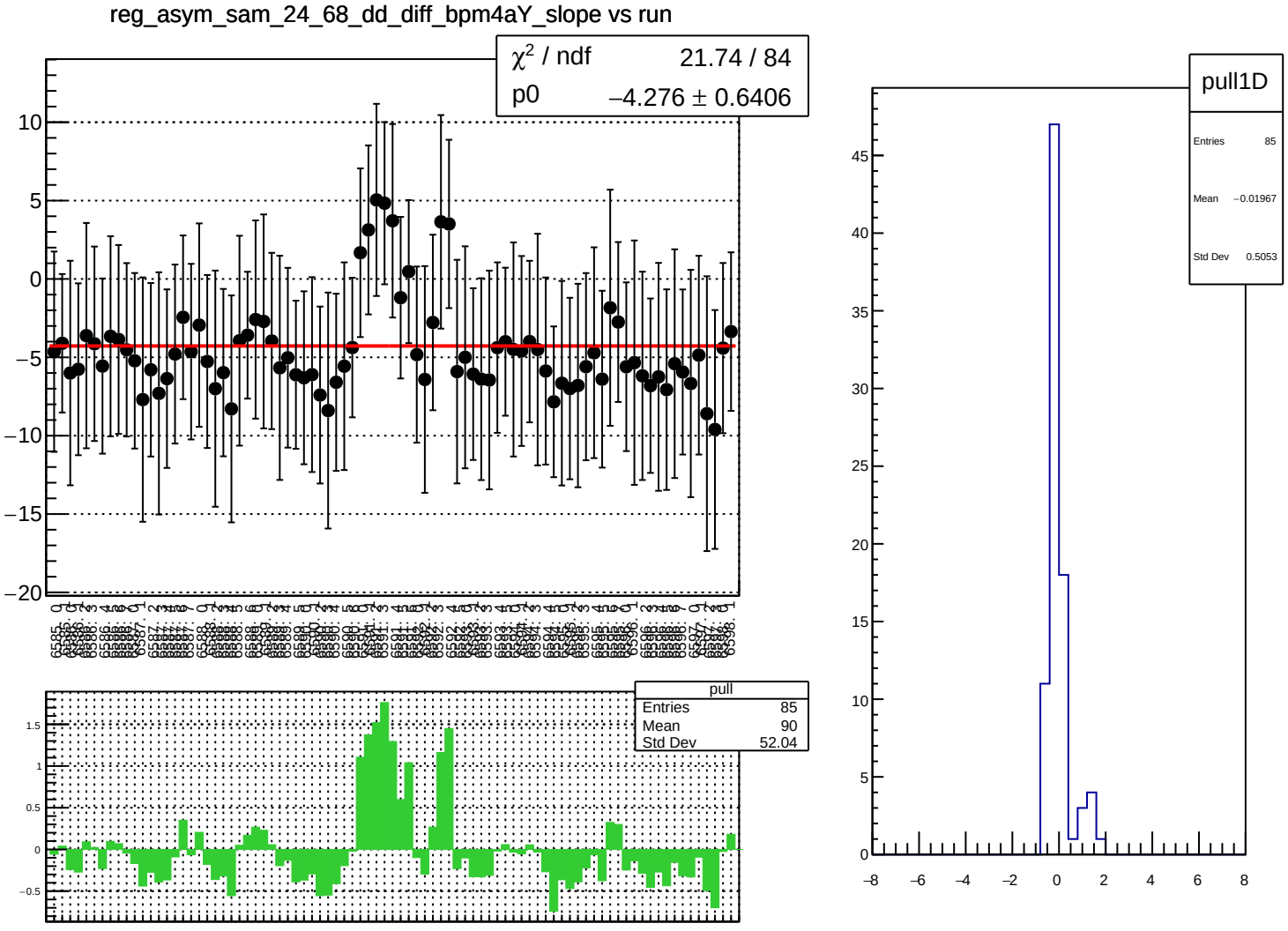

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ2 / ndf 22.73 / 84
p0 26.45 ± 0.3118
pull
Entries 85
Mean 134.8
Std Dev 116.8
pull1D
Entries 85
Mean 0.01116
Std Dev 0.517


reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ^2 / ndf 5.092 / 84
p0 −0.1144 ± 0.01567
pull
Entries 85
Mean −411.2
Std Dev 459.6

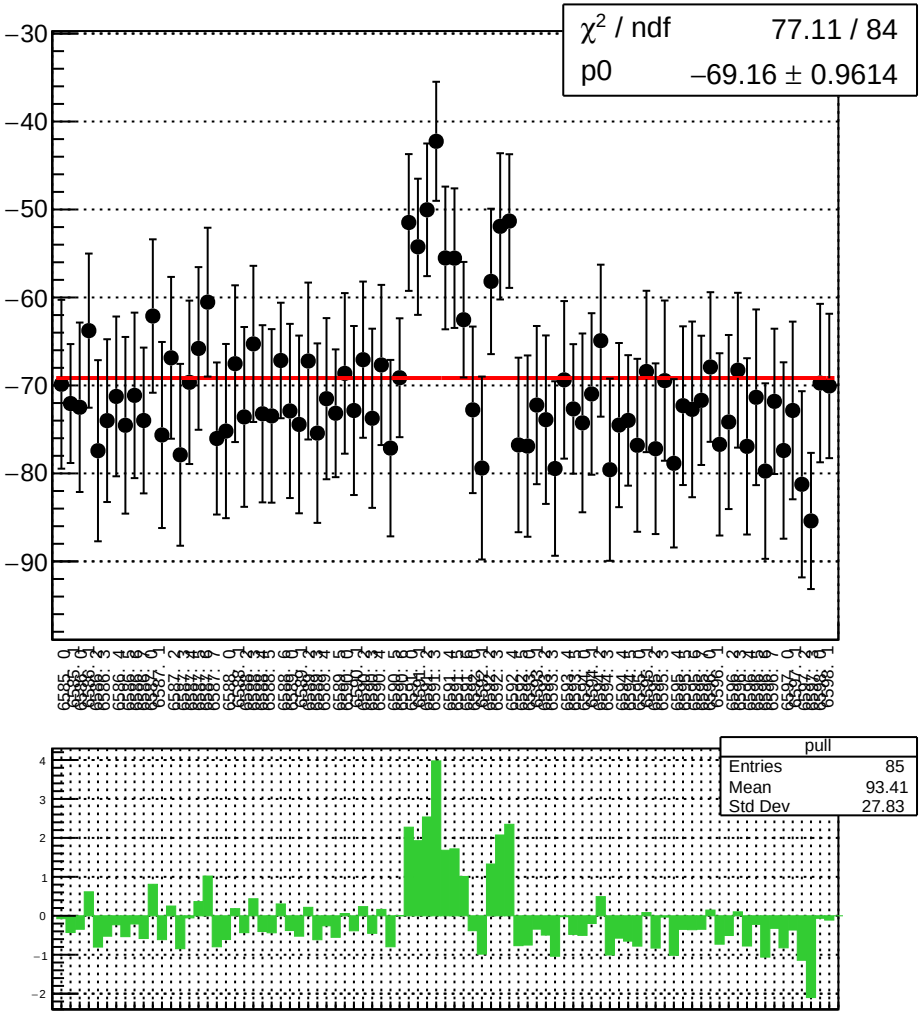

pull1D
Entries 85
Mean −0.002097
Std Dev 0.2447

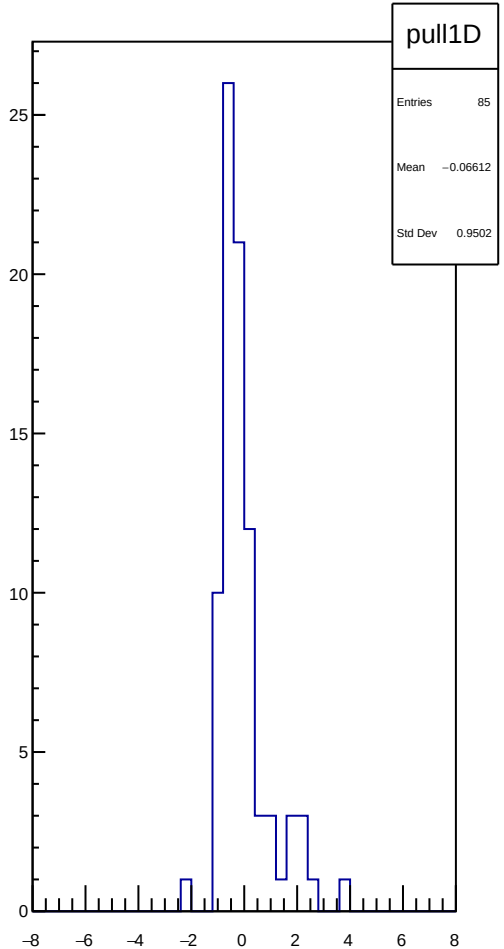

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ^2 / ndf 81.67 / 84
p0 −38.51 ± 0.9041
pull
Entries 85
Mean 81.35
Std Dev 45.42

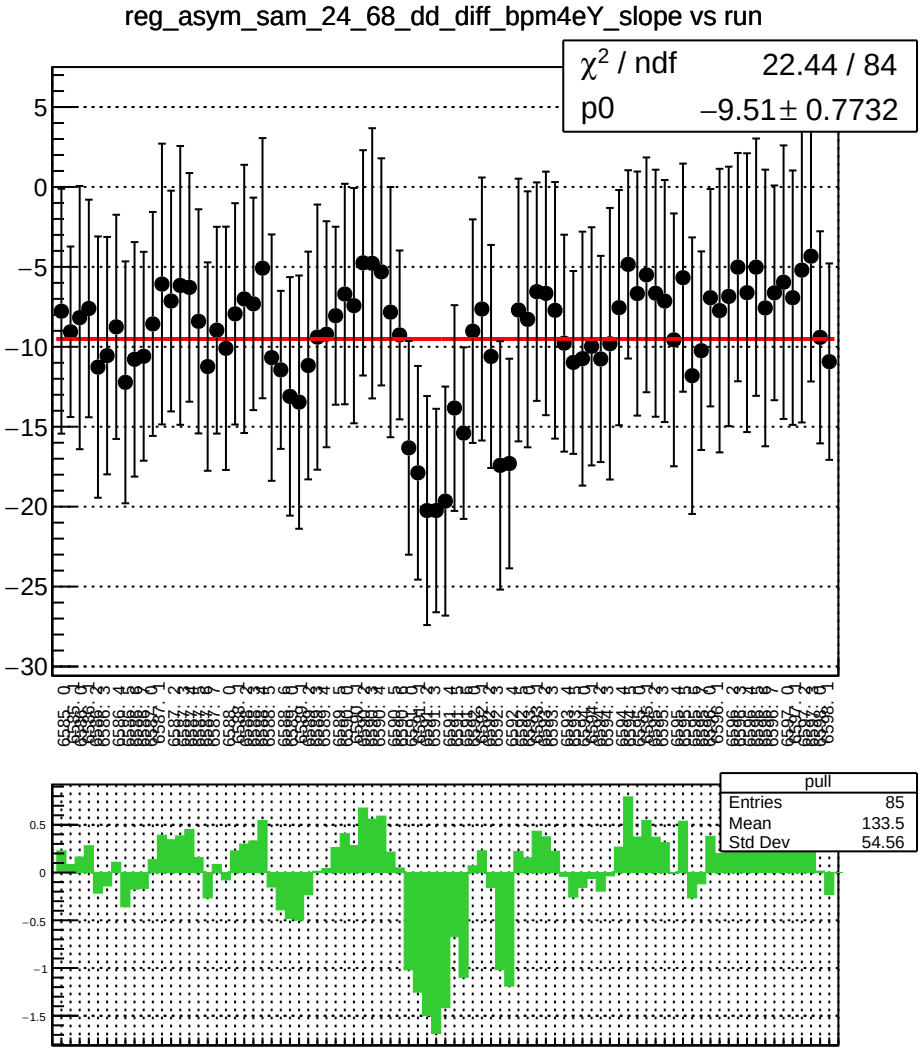

pull1D
Entries 85
Mean 0.06398
Std Dev 0.9781

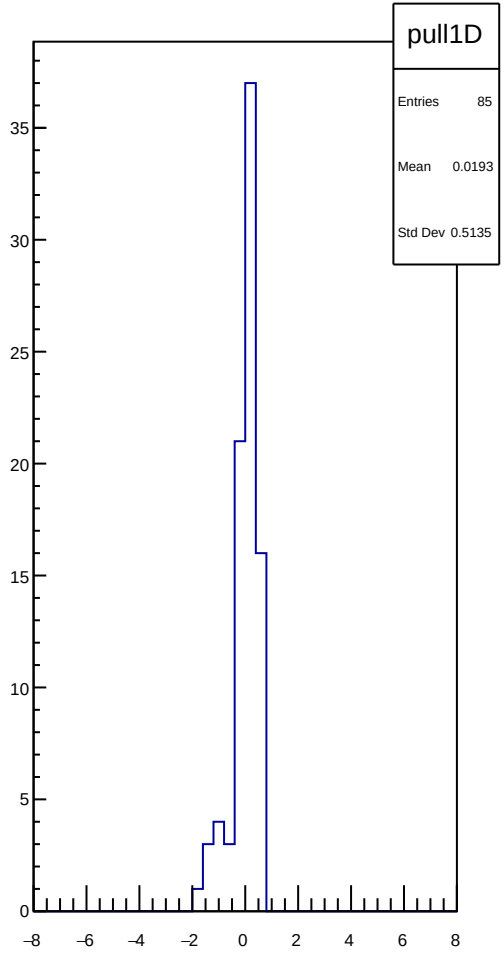

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.74 / 84
p0 −4.276 ± 0.6406
pull
Entries 85
Mean 90
Std Dev 52.04
pull1D
Entries 85
Mean −0.01967
Std Dev 0.5053

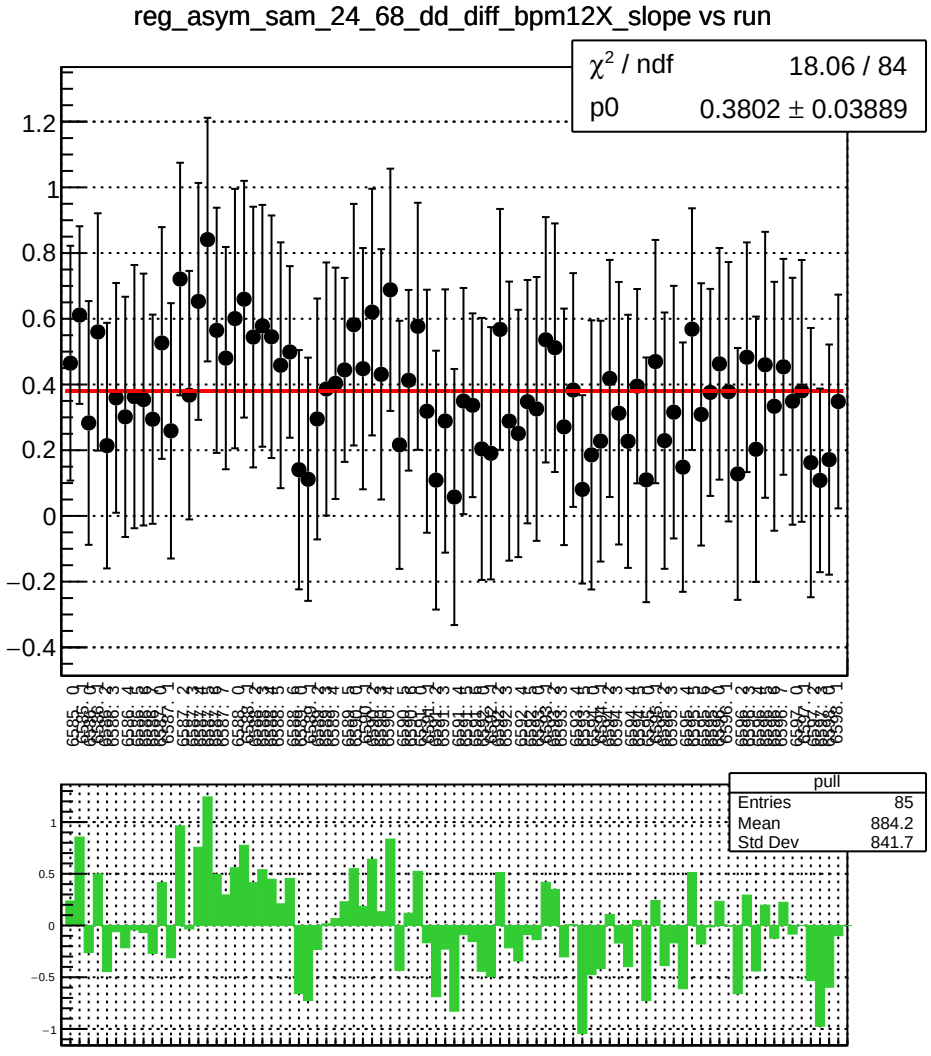
reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run

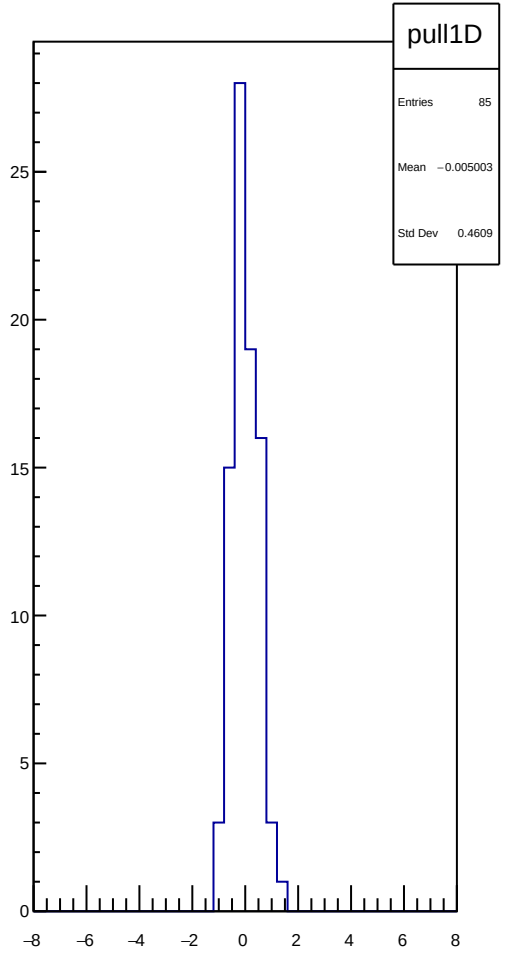


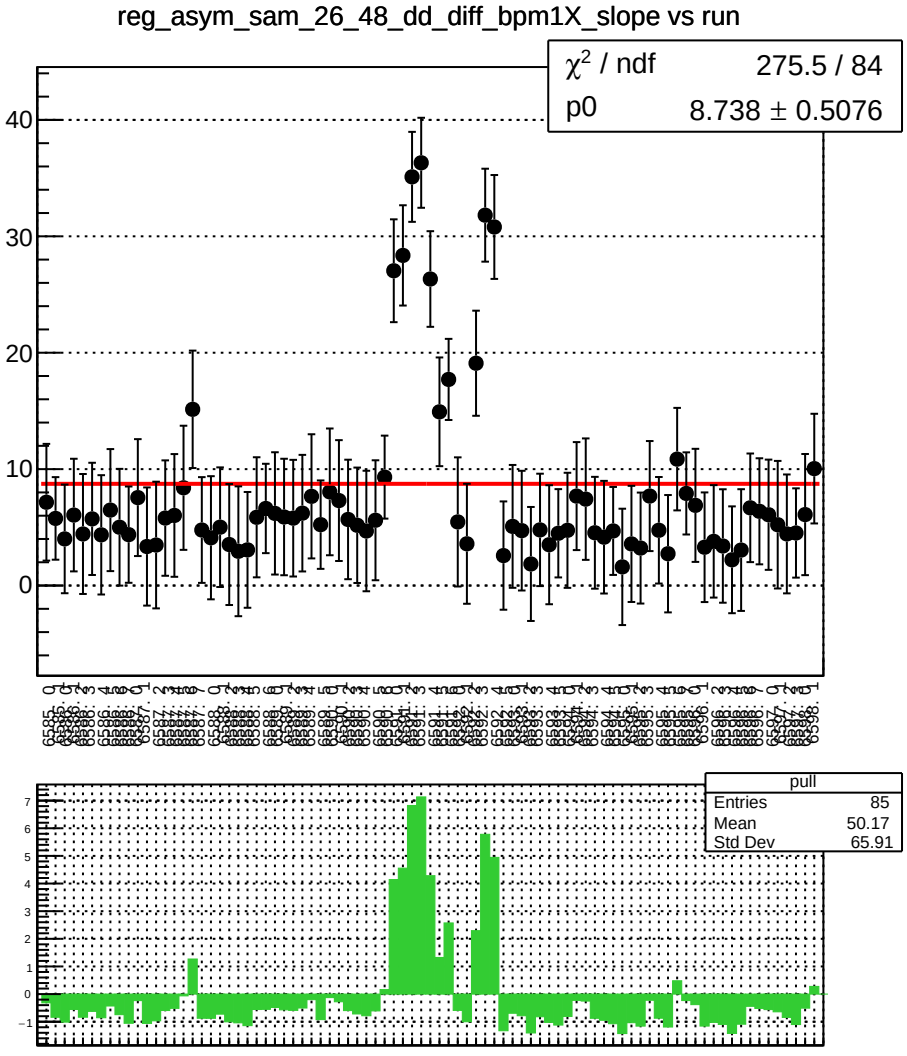


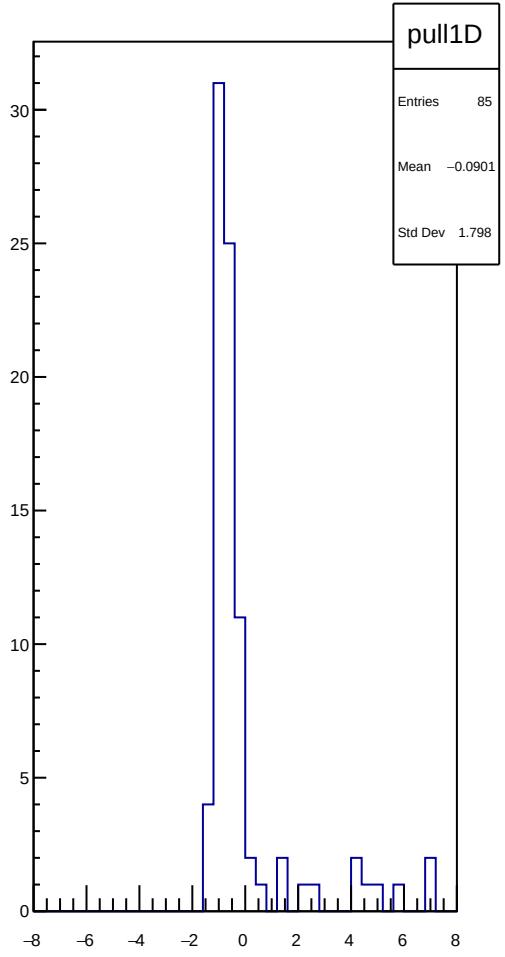

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.44 / 84
p0 −9.51 ± 0.7732
pull
Entries 85
Mean 133.5
Std Dev 54.56

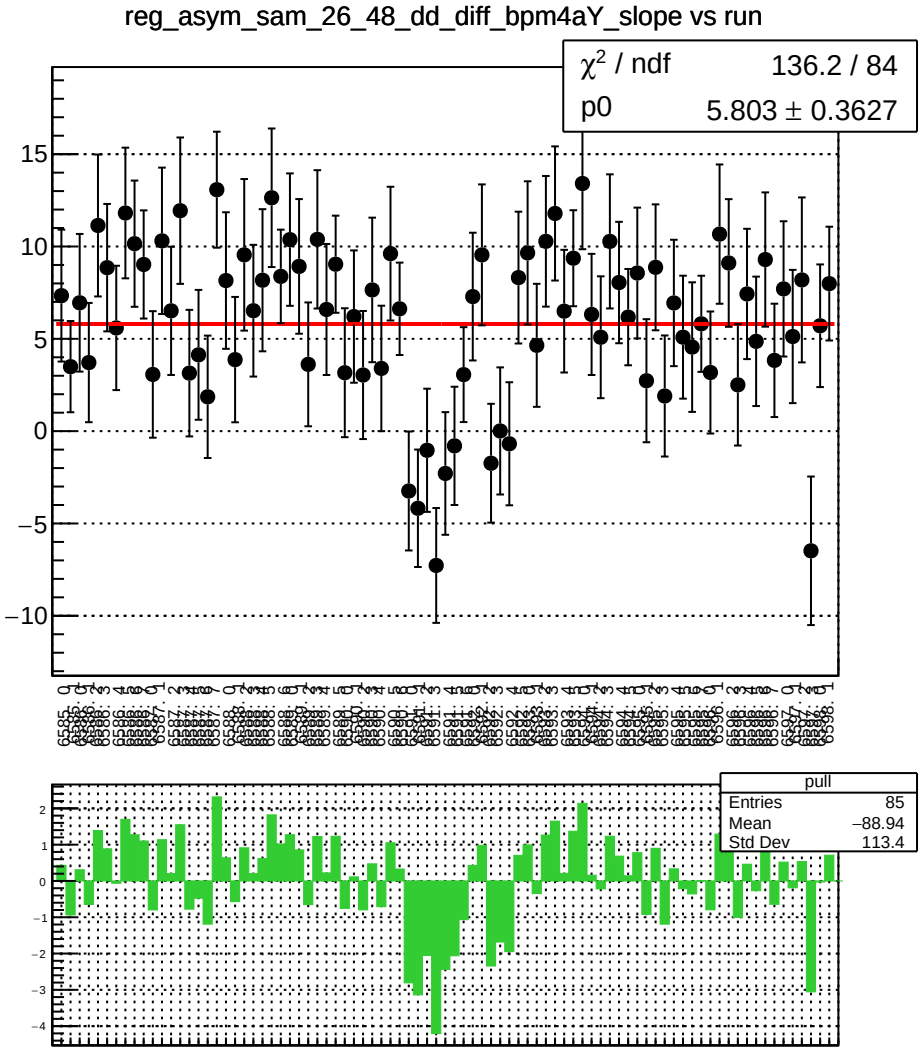

pull1D
Entries 85
Mean 0.0193
Std Dev 0.5135

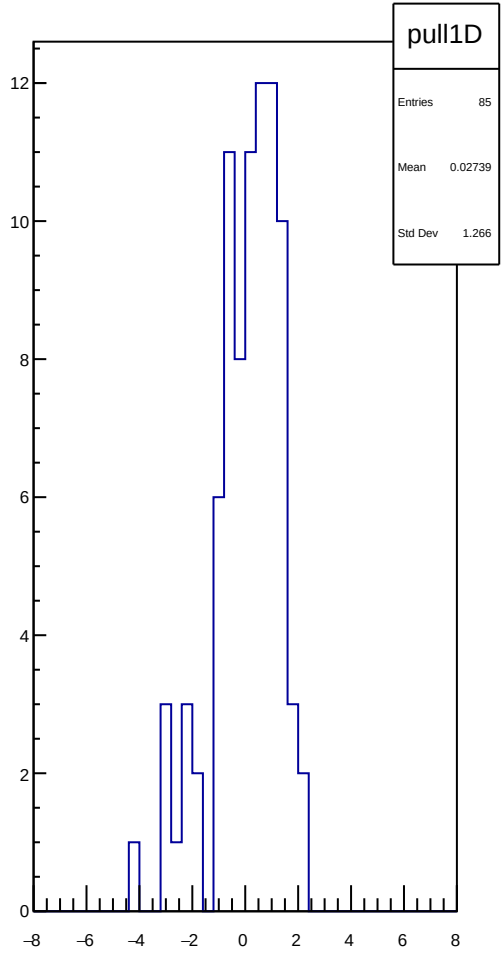

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 18.06 / 84
p0 0.3802 ± 0.03889
pull
Entries 85
Mean 884.2
Std Dev 841.7

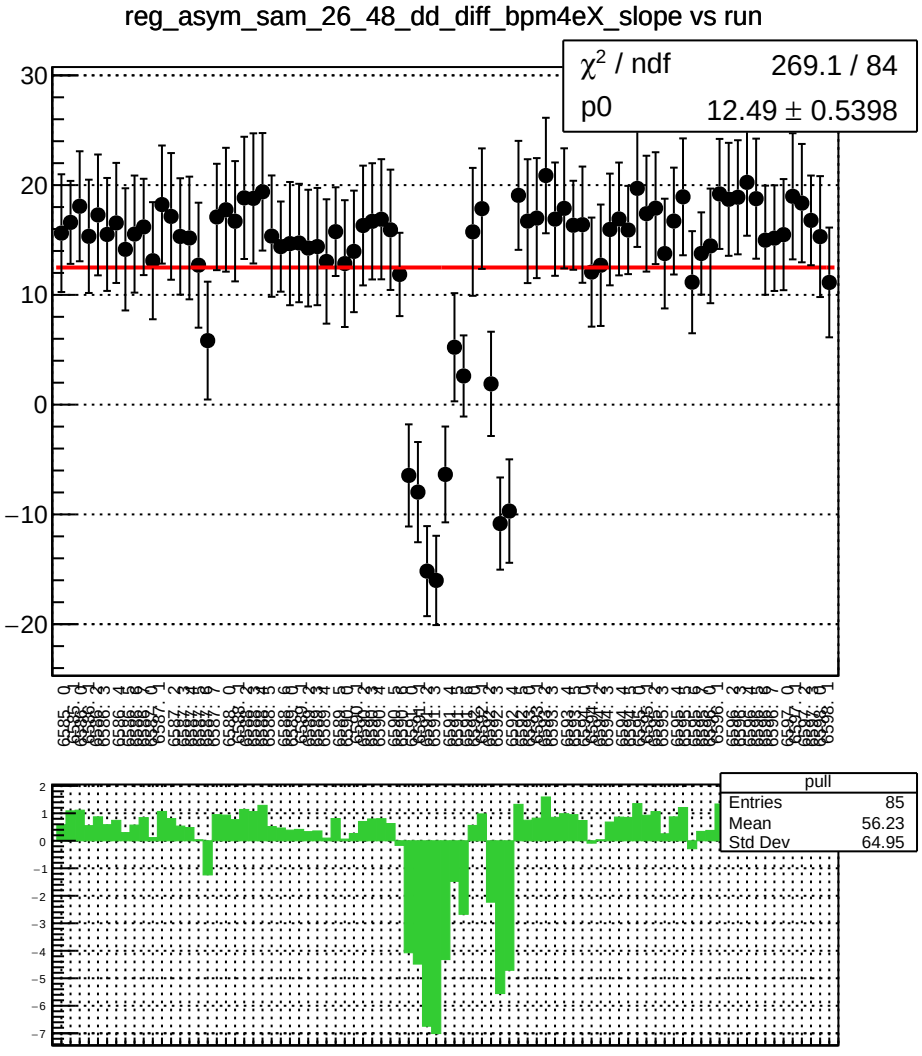

pull1D
Entries 85
Mean −0.005003
Std Dev 0.4609

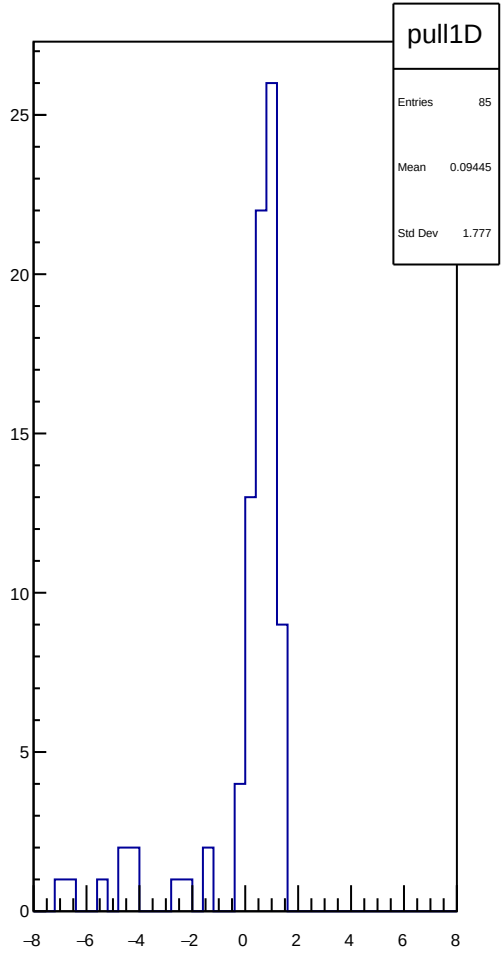

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 275.5 / 84
p0 8.738 ± 0.5076
pull
Entries 85
Mean 50.17
Std Dev 65.91

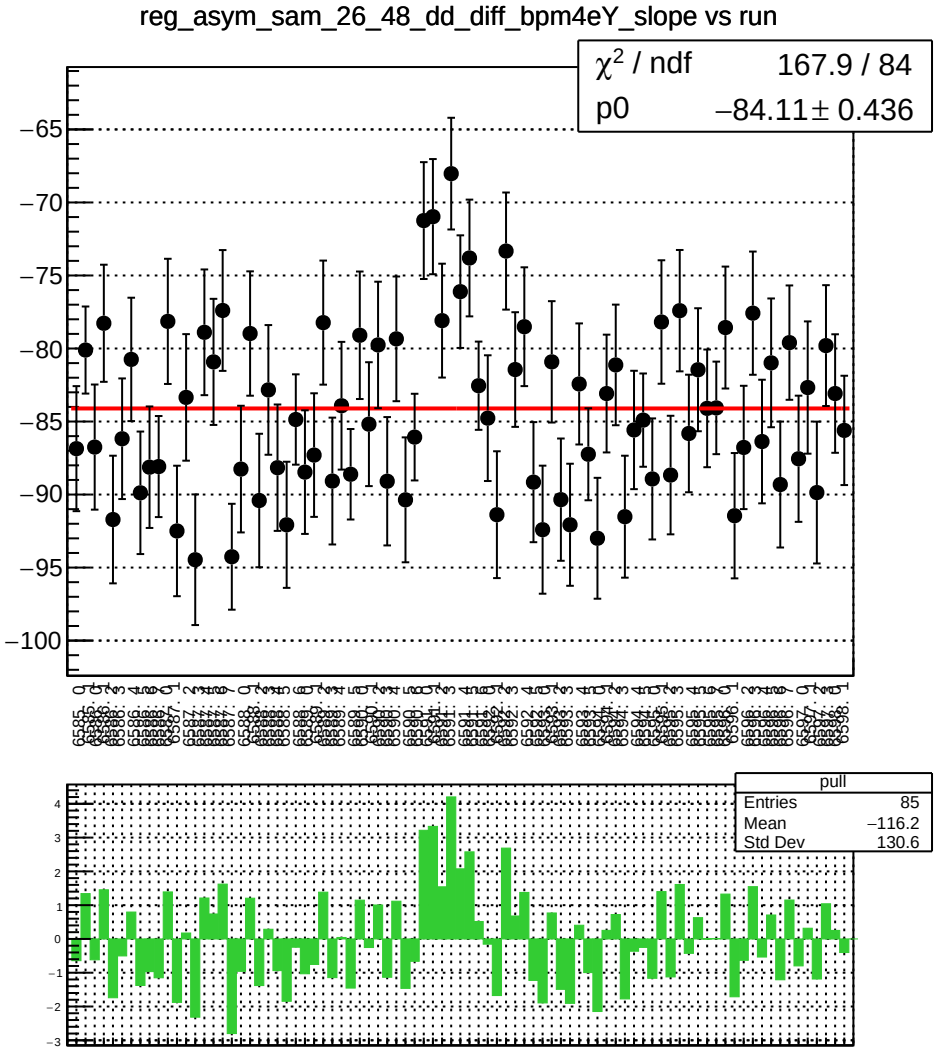

pull1D
Entries 85
Mean −0.0901
Std Dev 1.798

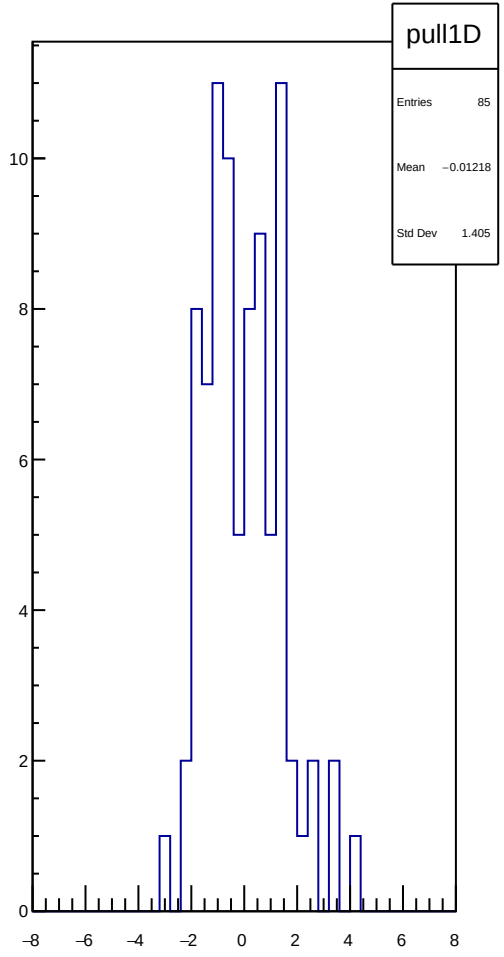

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 136.2 / 84
p0 5.803 ± 0.3627
pull
Entries 85
Mean −88.94
Std Dev 113.4


pull1D
Entries 85
Mean 0.02739
Std Dev 1.266

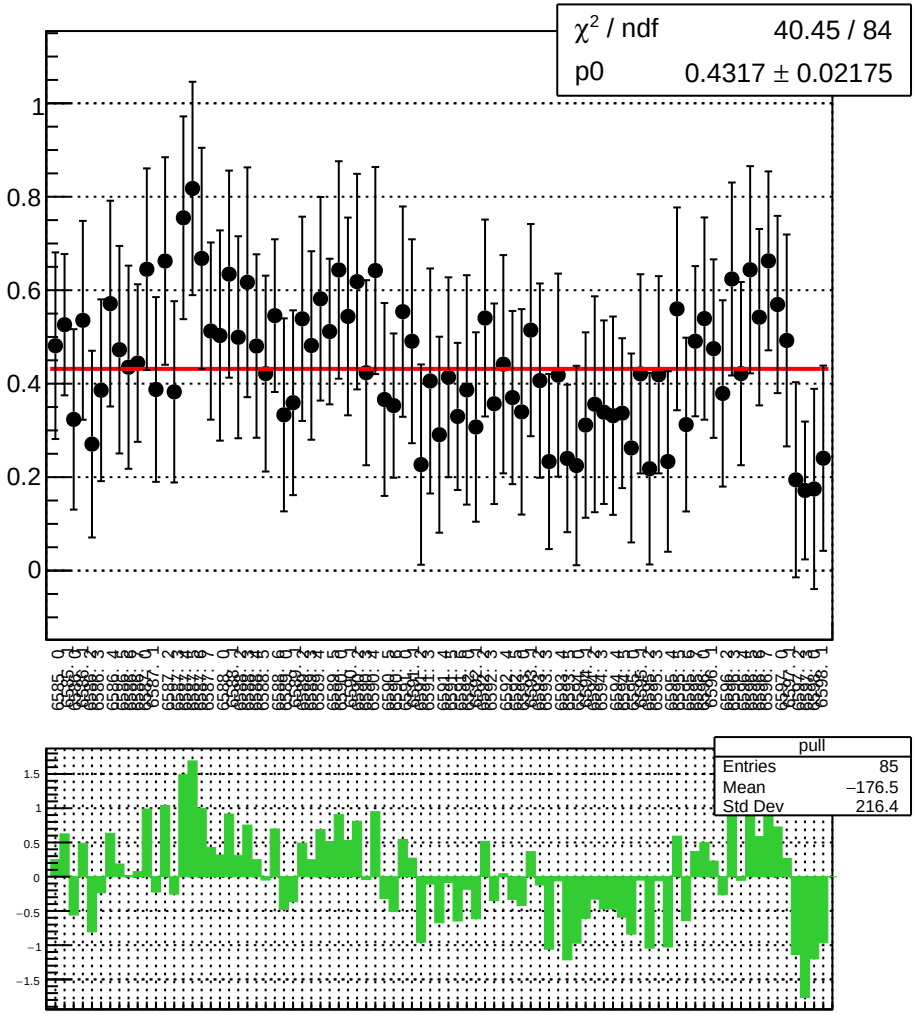

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 269.1 / 84
p0 12.49 ± 0.5398
pull
Entries 85
Mean 56.23
Std Dev 64.95

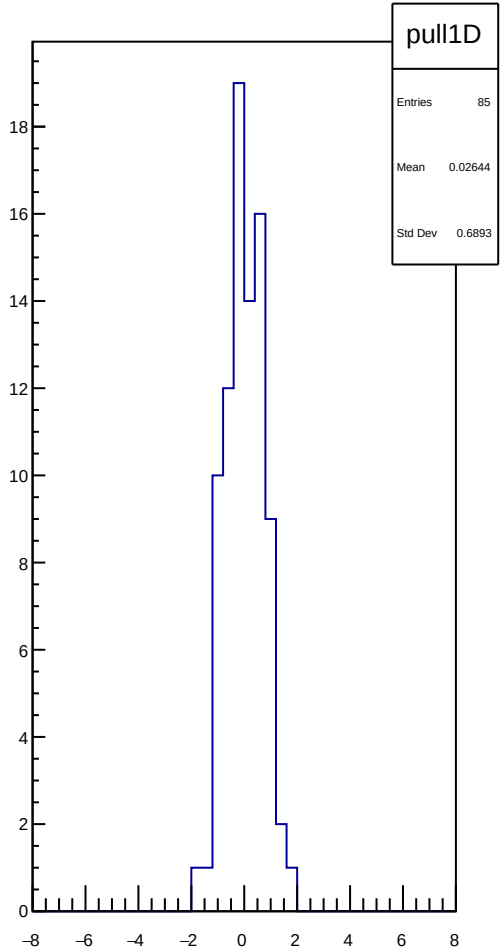

pull1D
Entries 85
Mean 0.09445
Std Dev 1.777

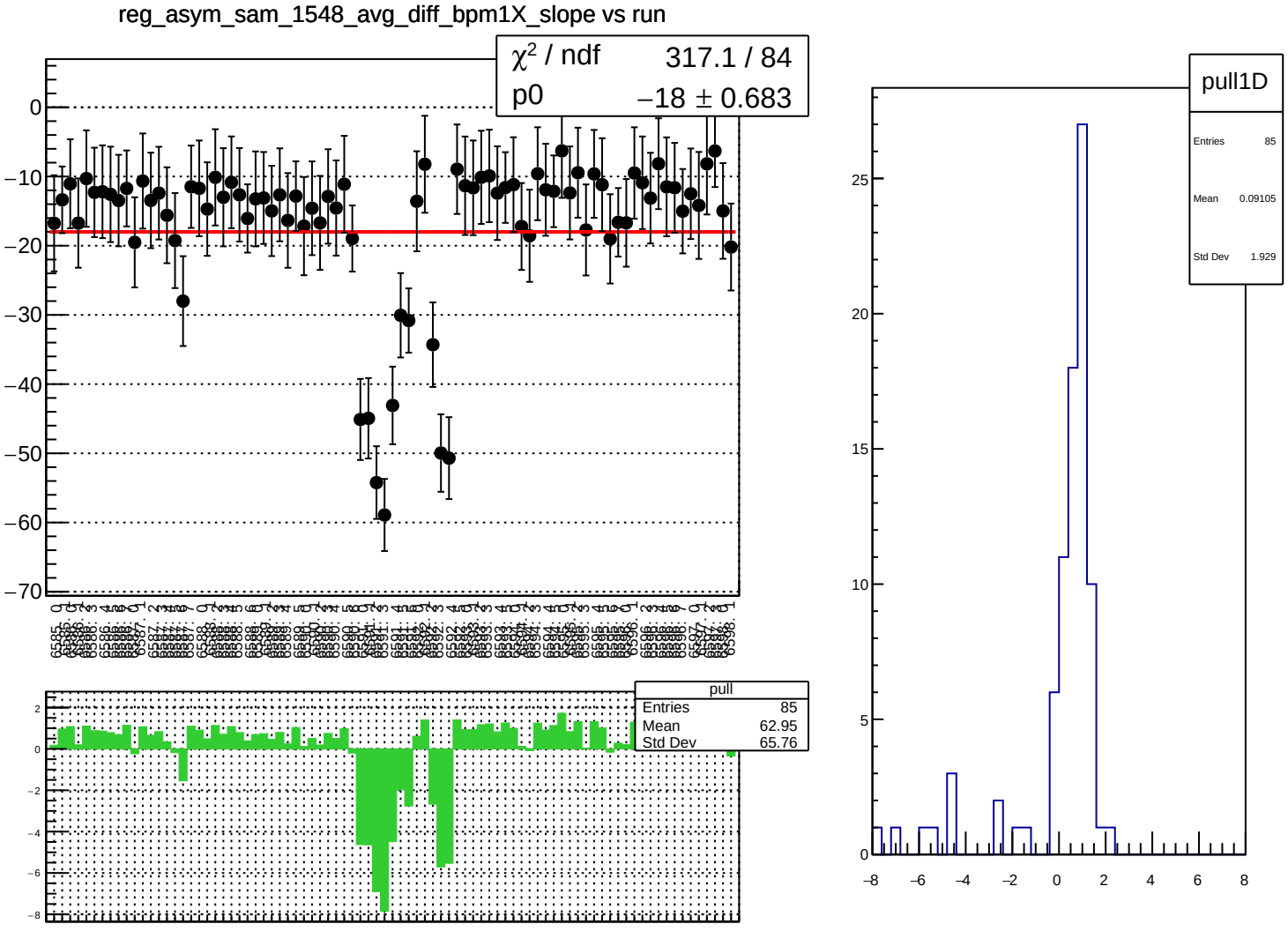

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 167.9 / 84
p0 −84.11 ± 0.436
pull
Entries 85
Mean −116.2
Std Dev 130.6

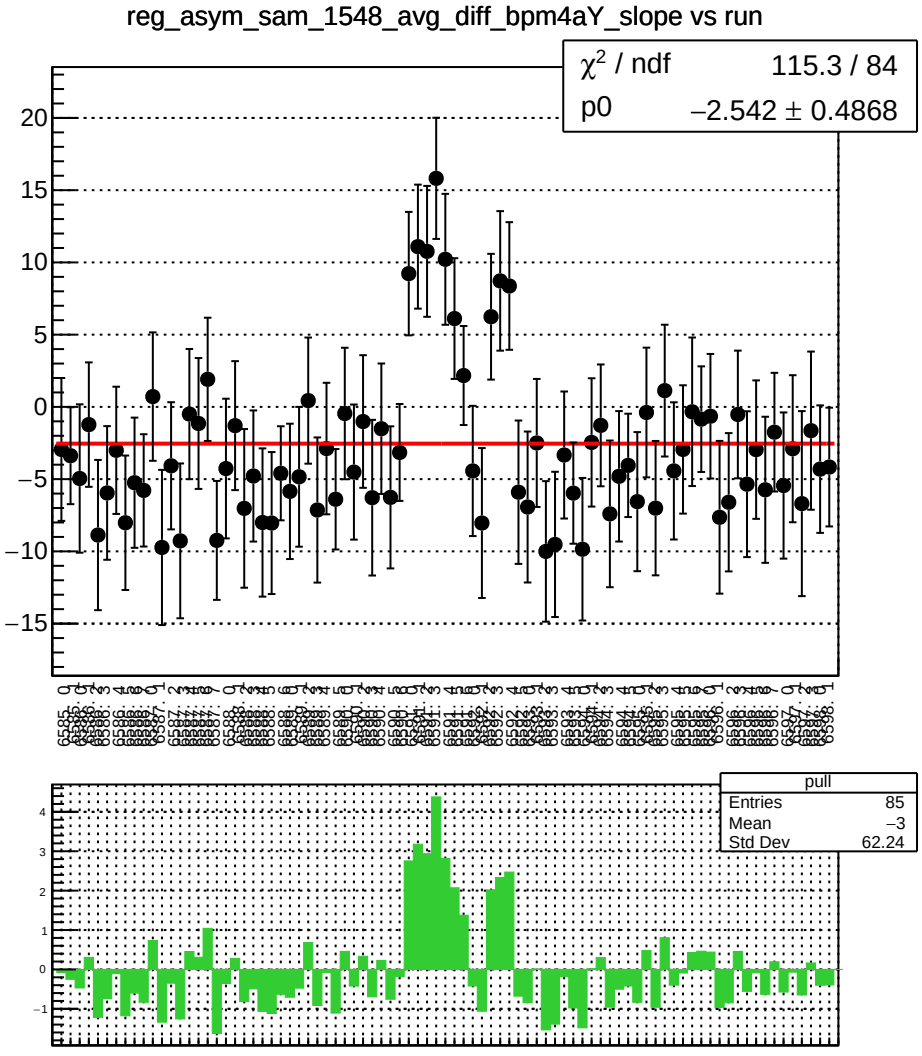

pull1D
Entries 85
Mean −0.01218
Std Dev 1.405

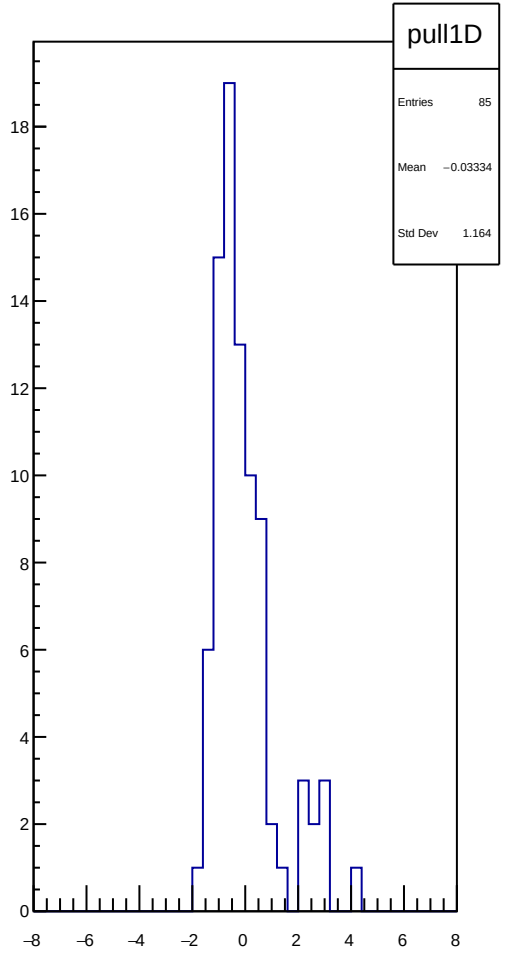
reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run

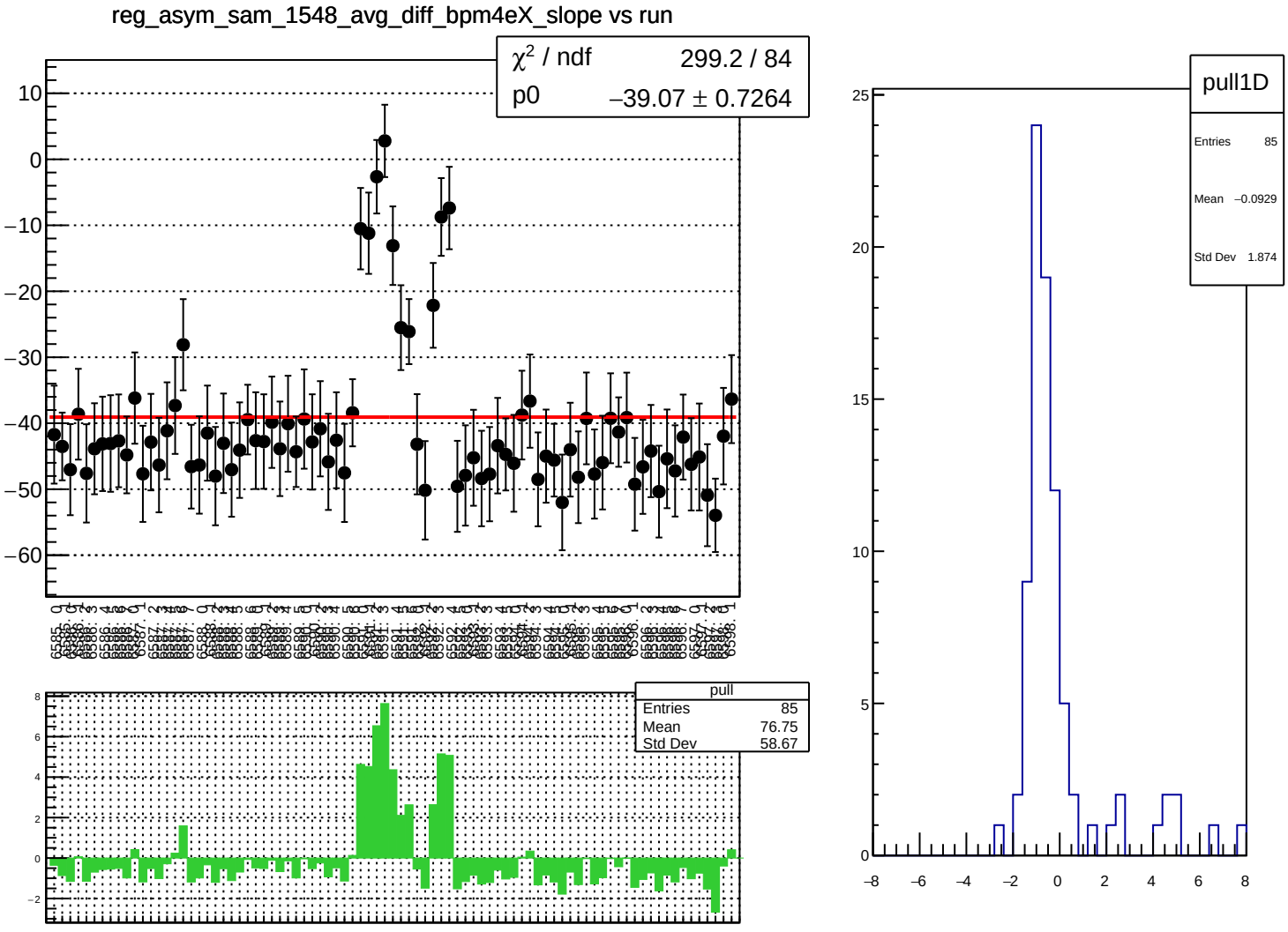


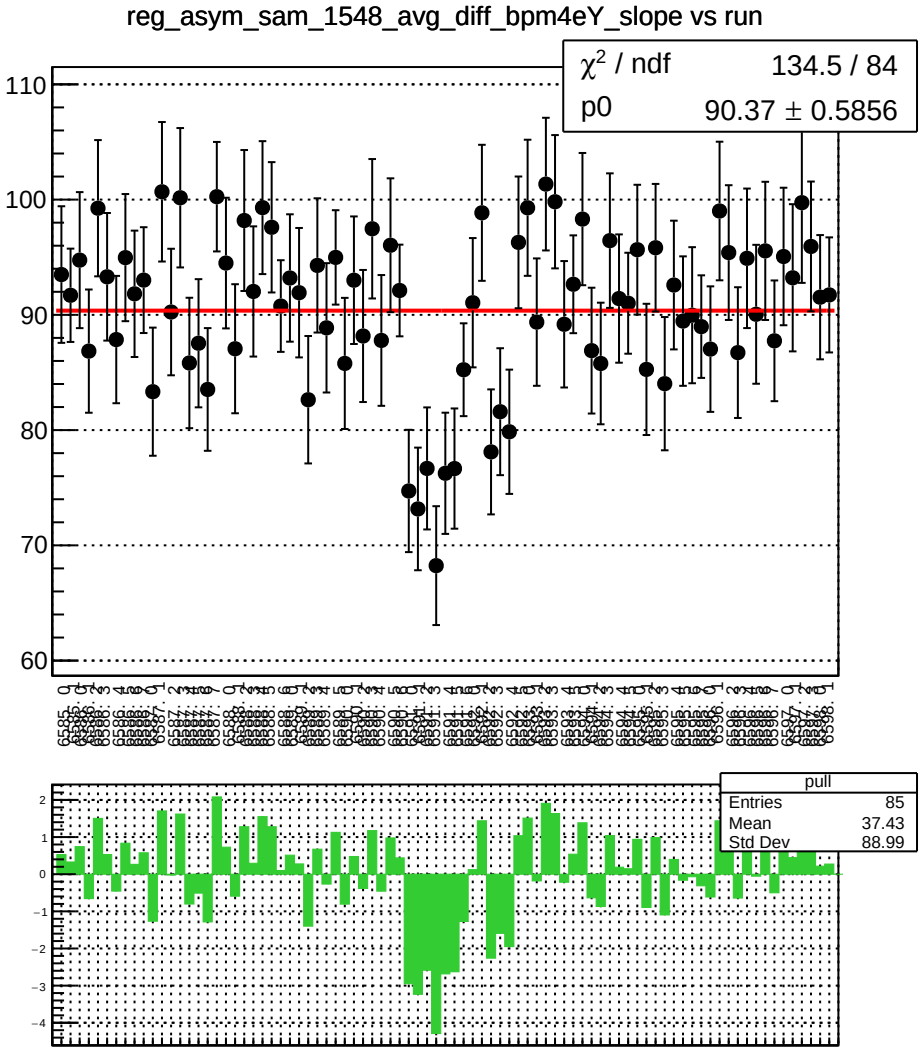


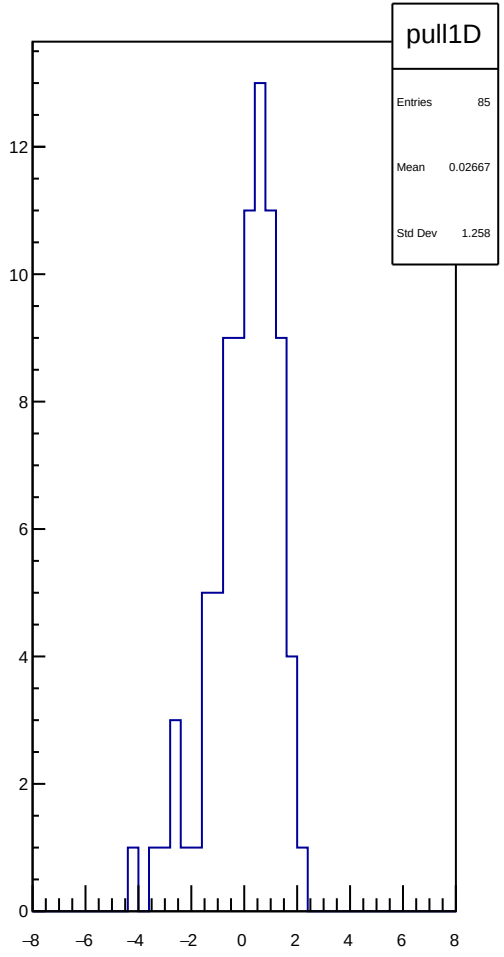

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 317.1 / 84
p0 −18 ± 0.683
pull
Entries 85
Mean 62.95
Std Dev 65.76
pull1D
Entries 85
Mean 0.09105
Std Dev 1.929

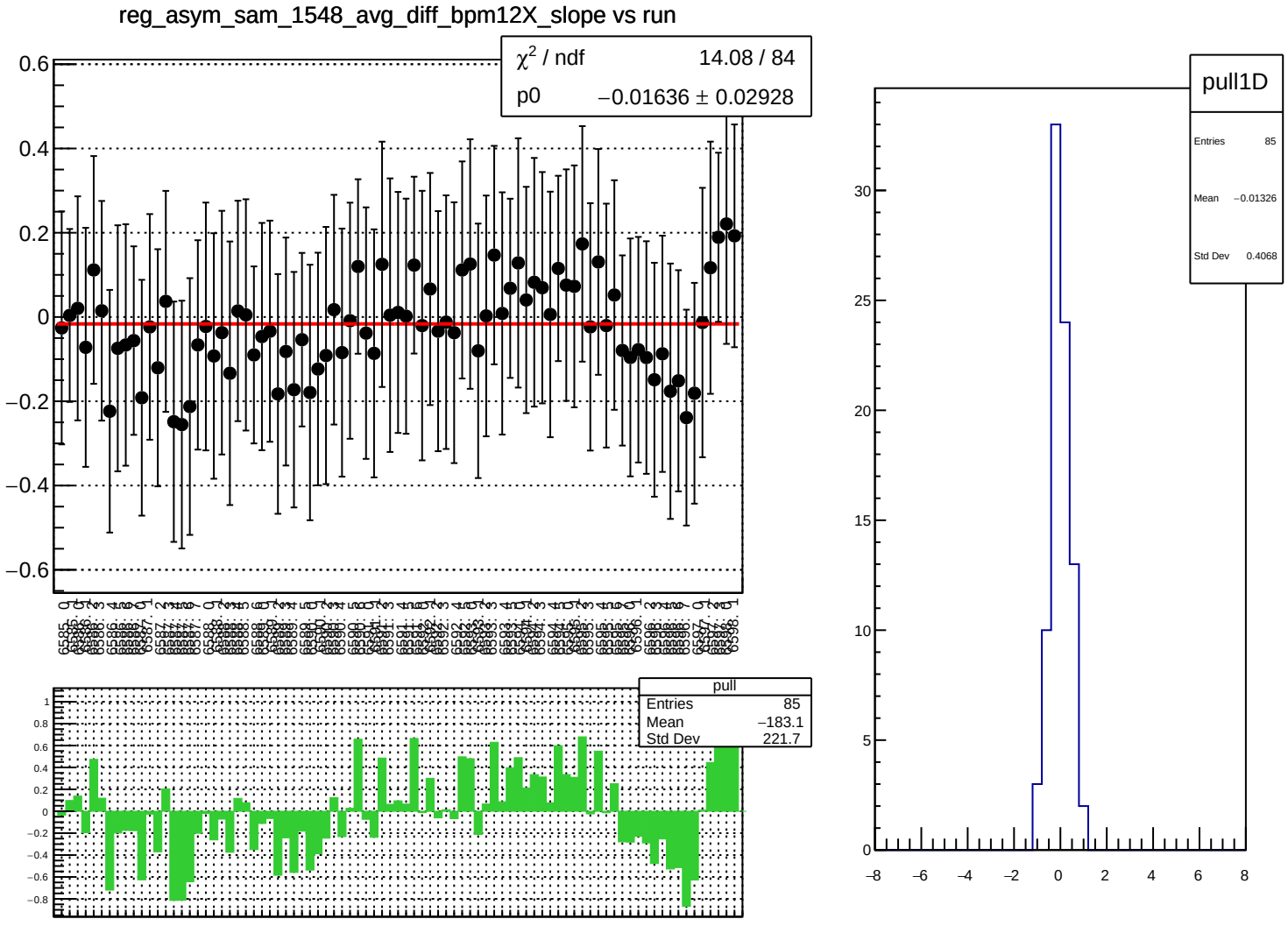

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 115.3 / 84
p0 −2.542 ± 0.4868
pull
Entries 85
Mean −3
Std Dev 62.24

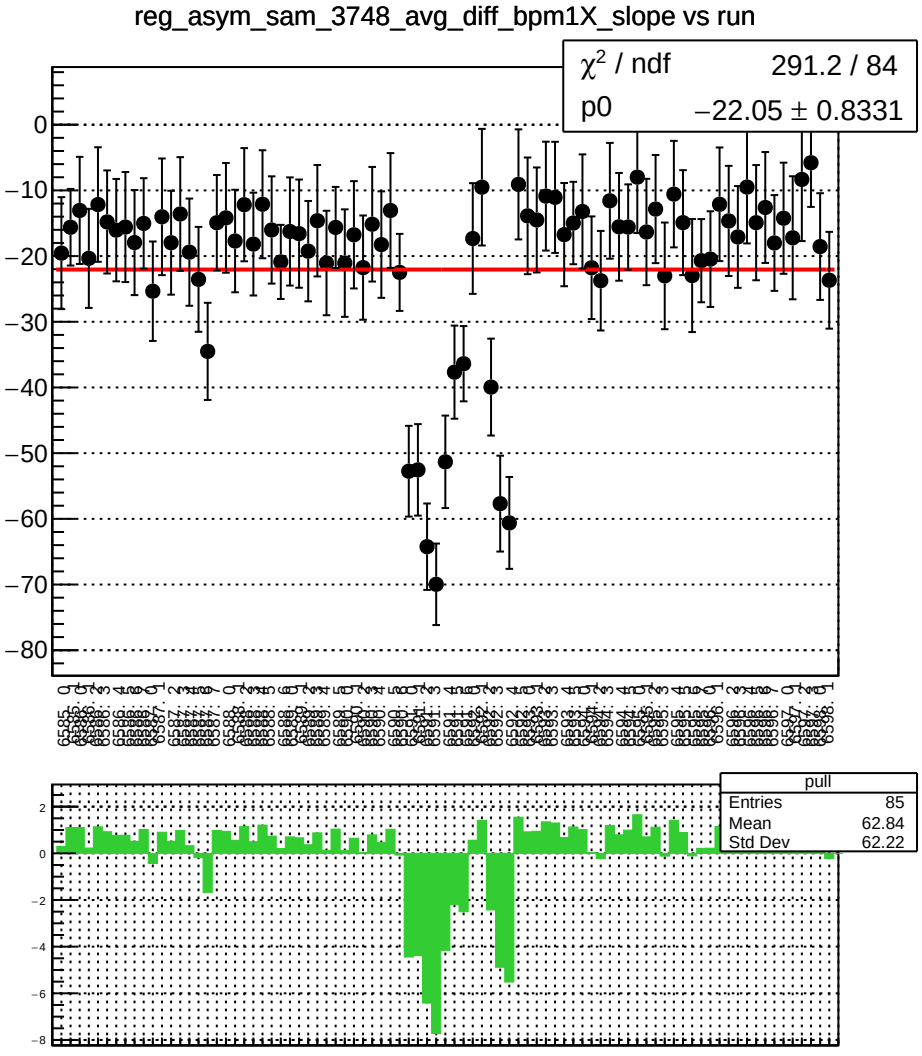

pull1D
Entries 85
Mean −0.03334
Std Dev 1.164

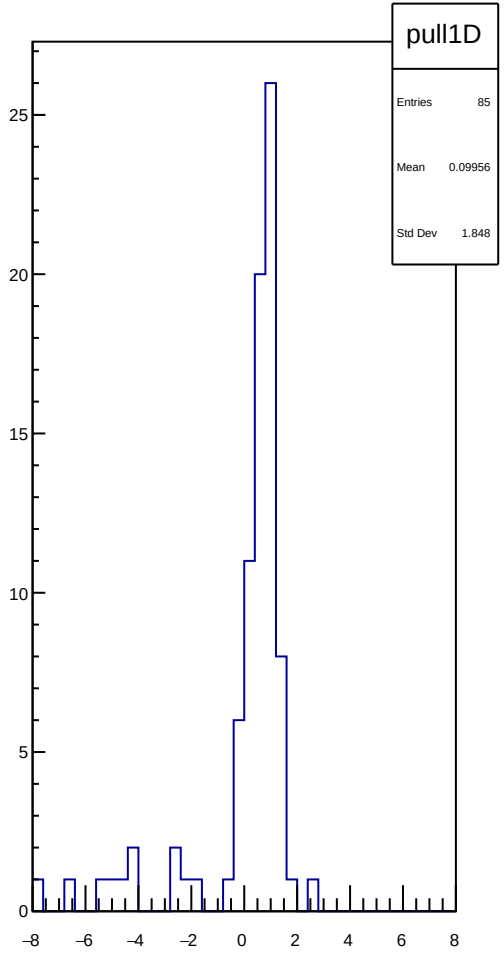

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 299.2 / 84
p0 −39.07 ± 0.7264
pull
Entries 85
Mean 76.75
Std Dev 58.67
pull1D
Entries 85
Mean −0.0929
Std Dev 1.874

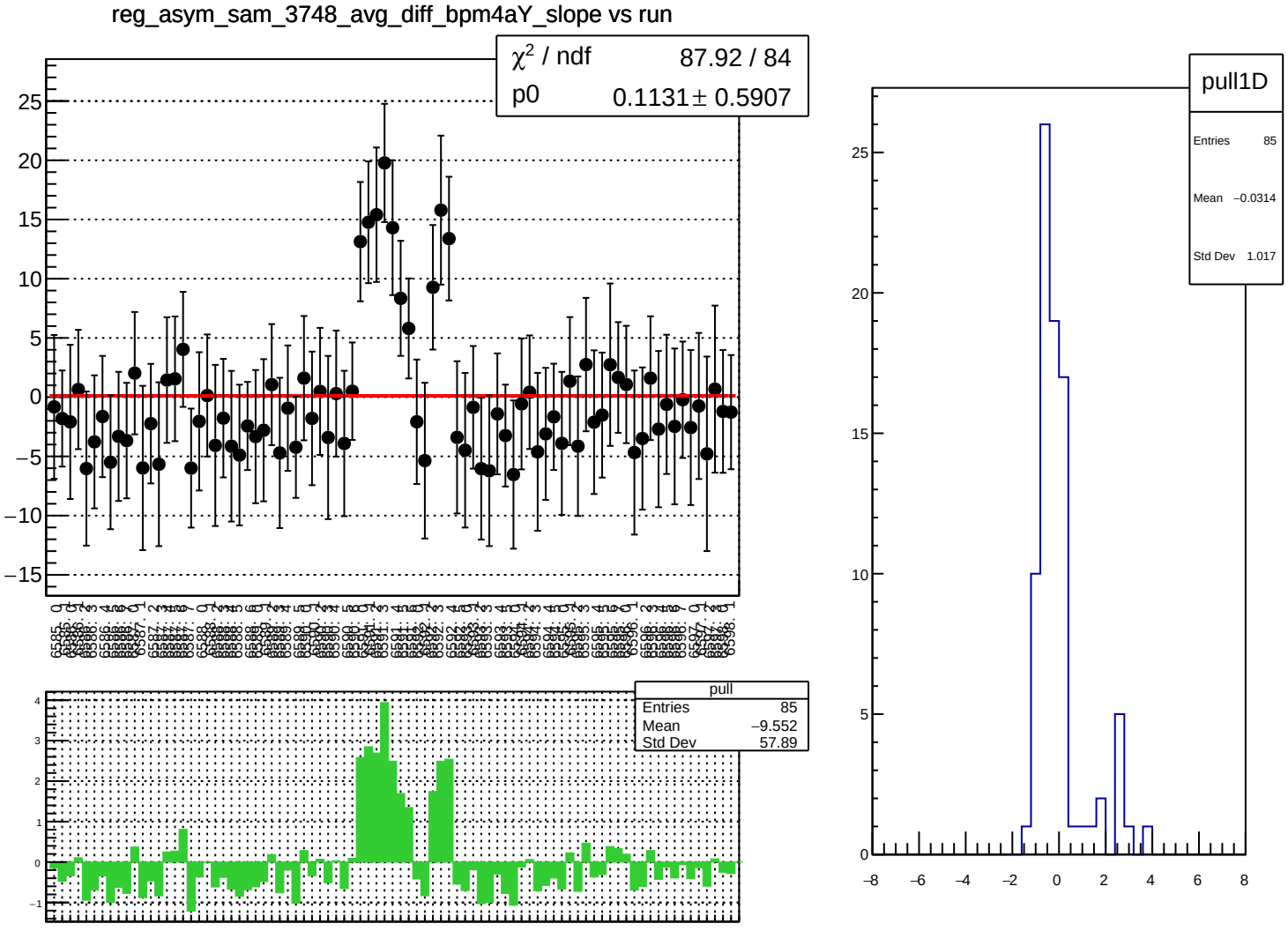

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 134.5 / 84
p0 90.37 ± 0.5856
pull
Entries 85
Mean 37.43
Std Dev 88.99

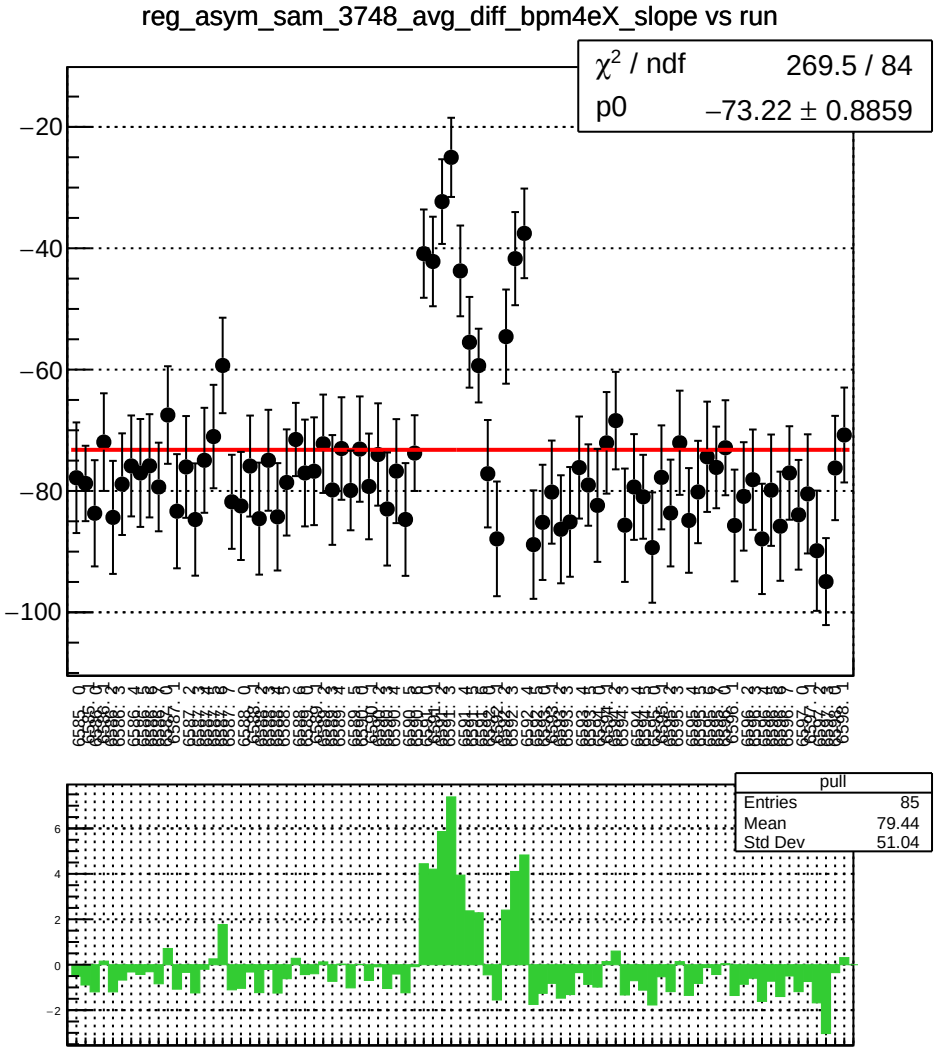

pull1D
Entries 85
Mean 0.02667
Std Dev 1.258

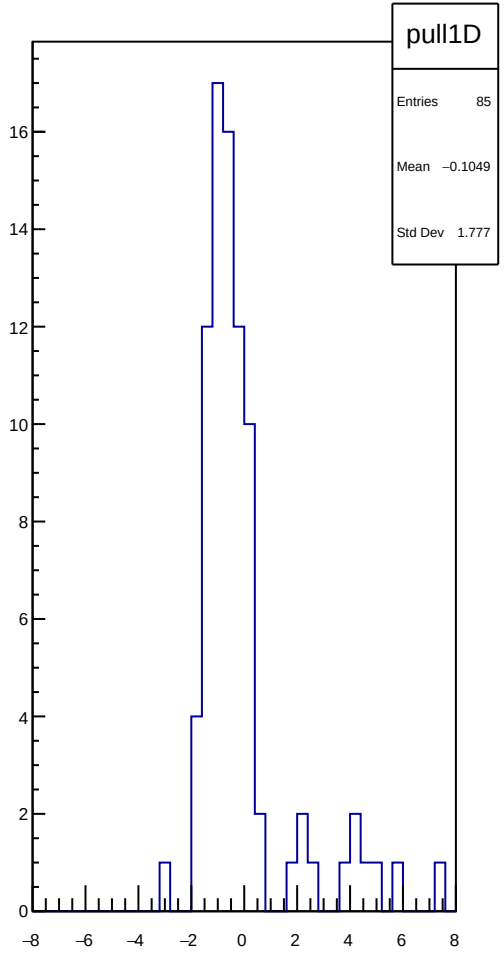

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 14.08 / 84
p0 −0.01636 ± 0.02928
pull
Entries 85
Mean −183.1
Std Dev 221.7
pull1D
Entries 85
Mean −0.01326
Std Dev 0.4068

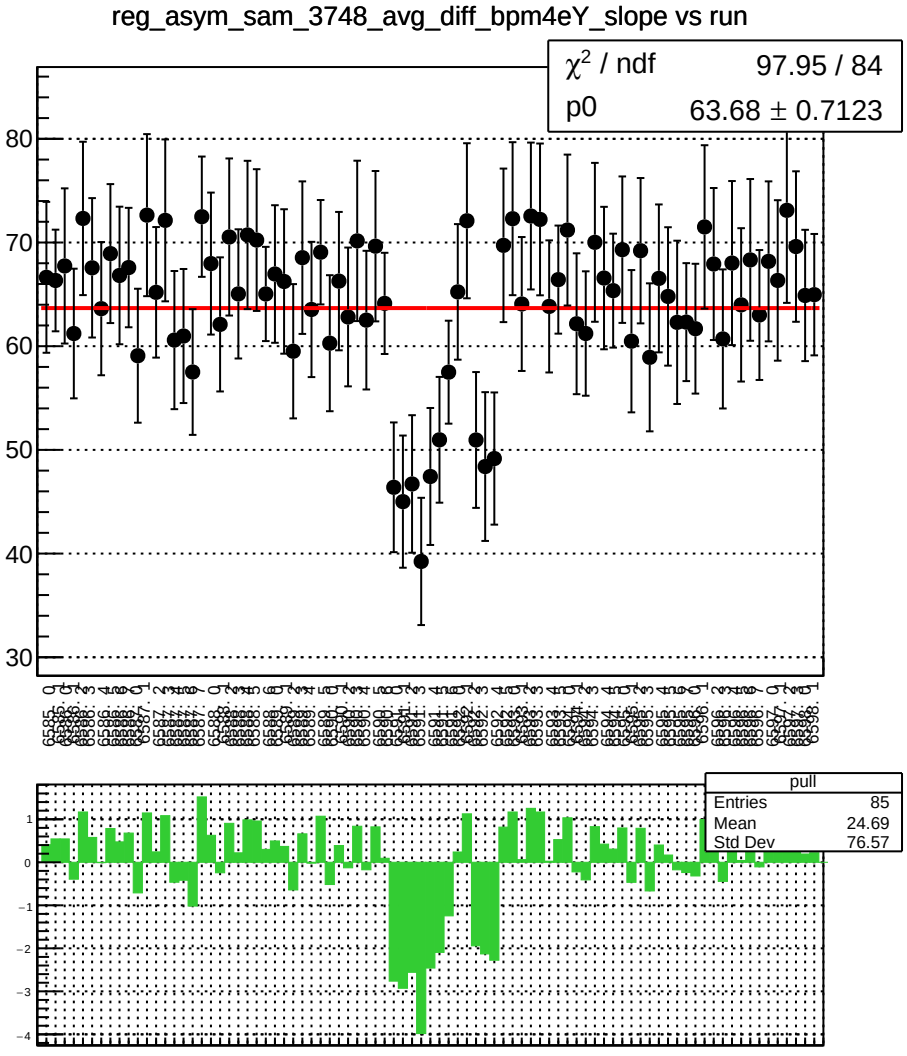

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 291.2 / 84
p0 −22.05 ± 0.8331
pull
Entries 85
Mean 62.84
Std Dev 62.22

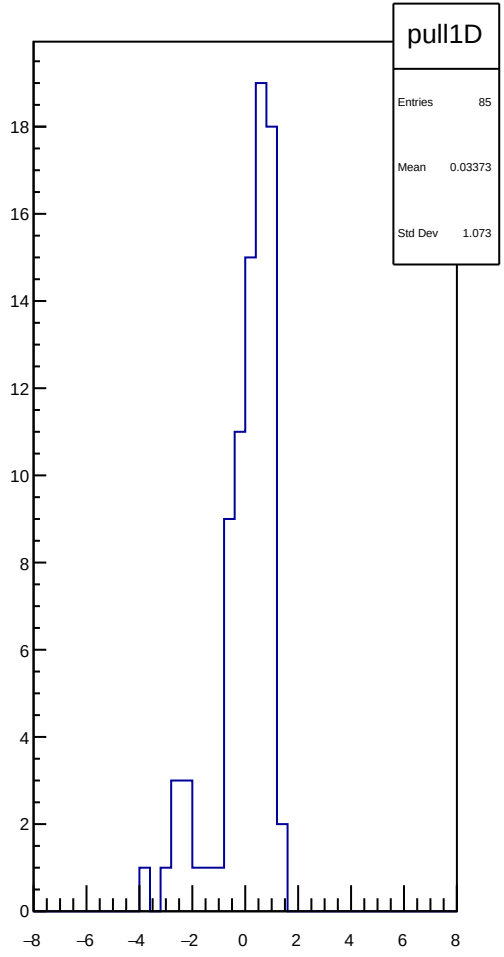

pull1D
Entries 85
Mean 0.09956
Std Dev 1.848

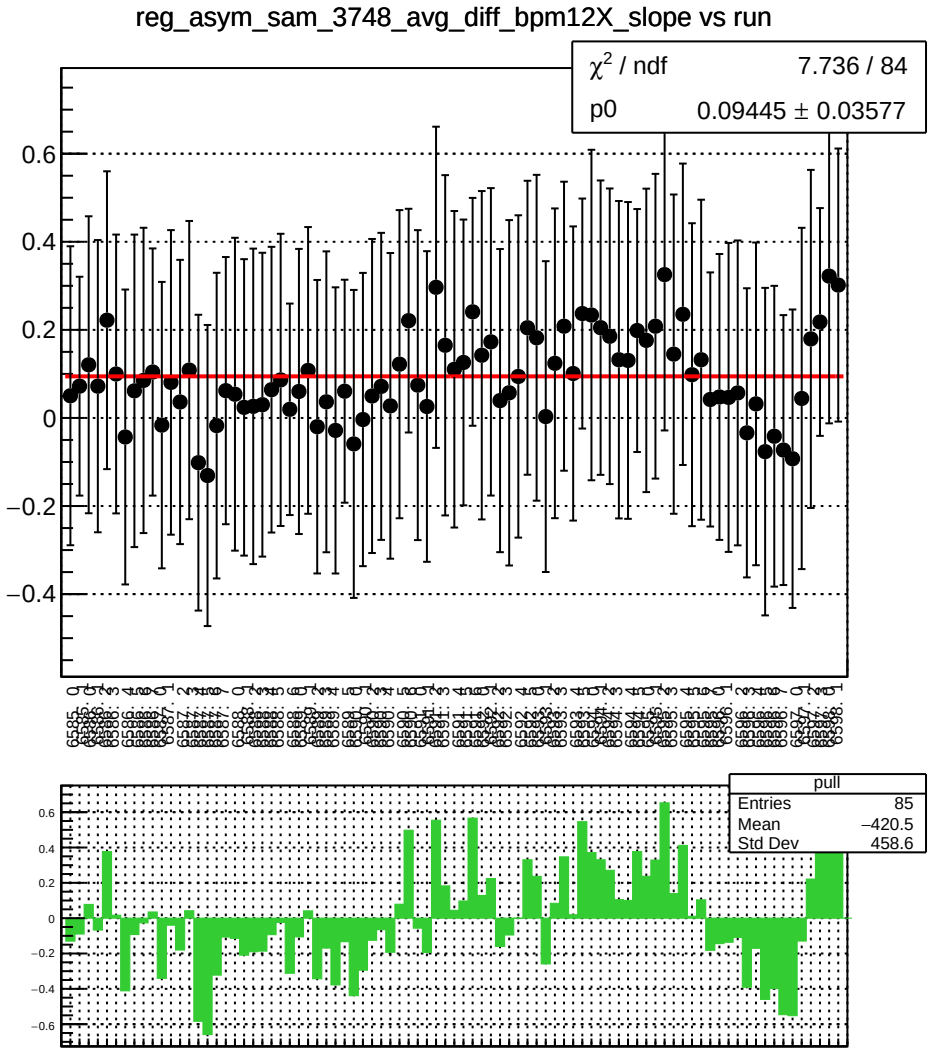

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.92 / 84
p0 0.1131 ± 0.5907
pull
Entries 85
Mean −9.552
Std Dev 57.89
pull1D
Entries 85
Mean −0.0314
Std Dev 1.017

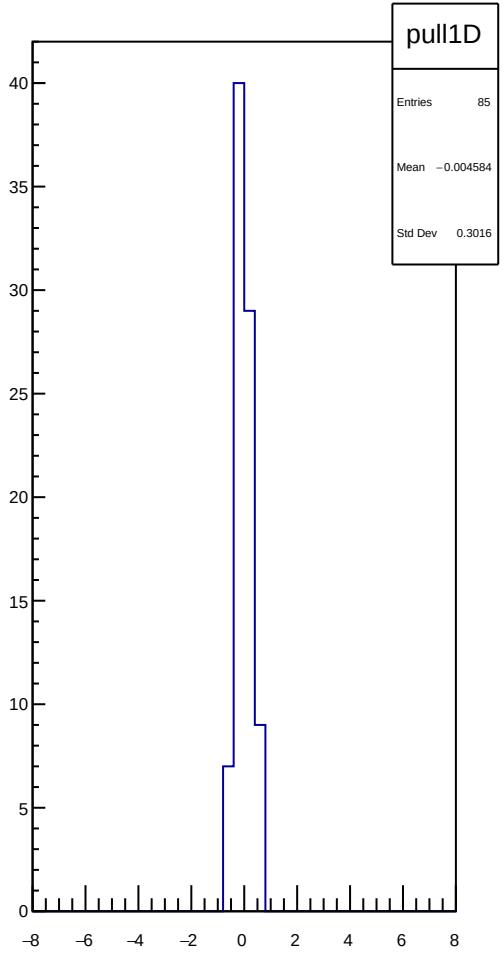

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 269.5 / 84
p0 −73.22 ± 0.8859
−20
−40
−60
−80
−100
pull
Entries 85
Mean 79.44
Std Dev 51.04
6
4
2
0
−2

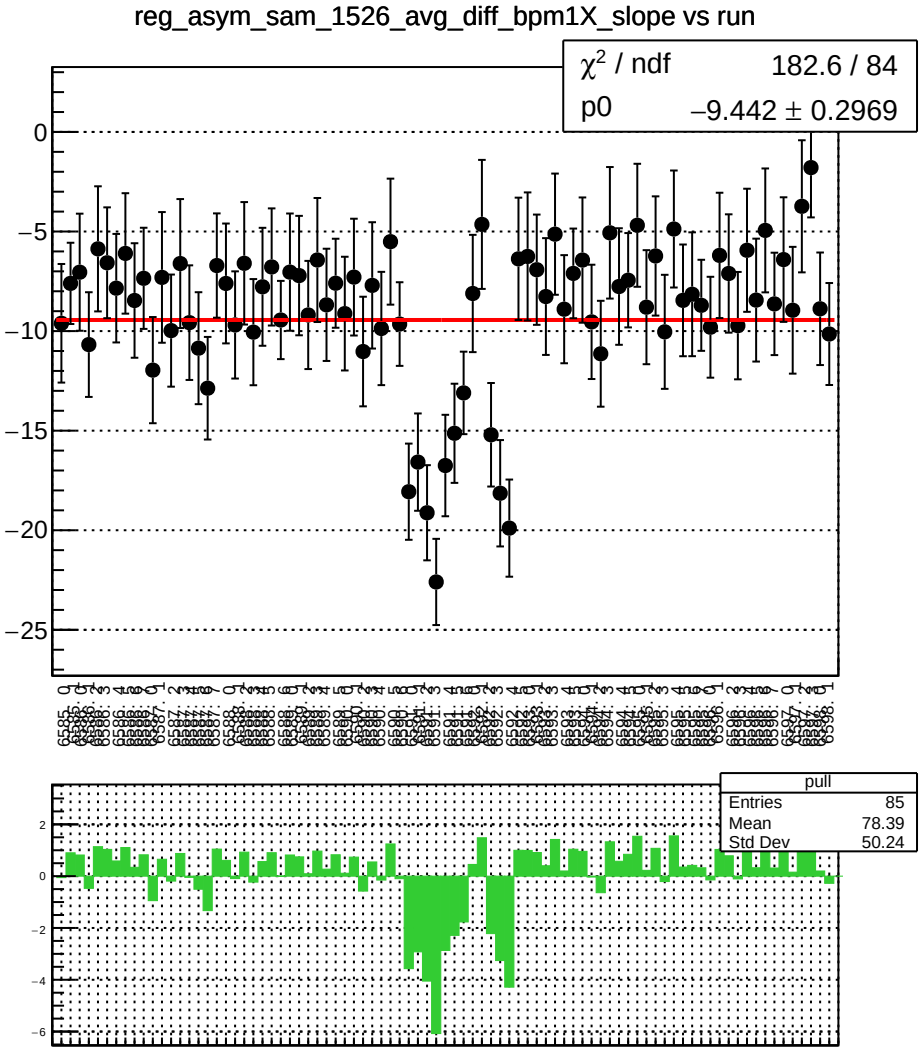

pull1D
Entries 85
Mean −0.1049
Std Dev 1.777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

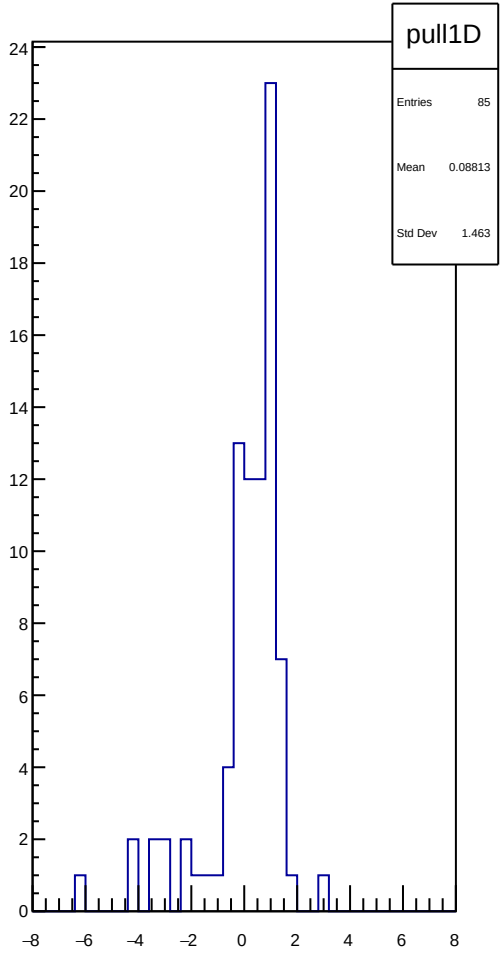

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 97.95 / 84
p0 63.68 ± 0.7123
pull
Entries 85
Mean 24.69
Std Dev 76.57

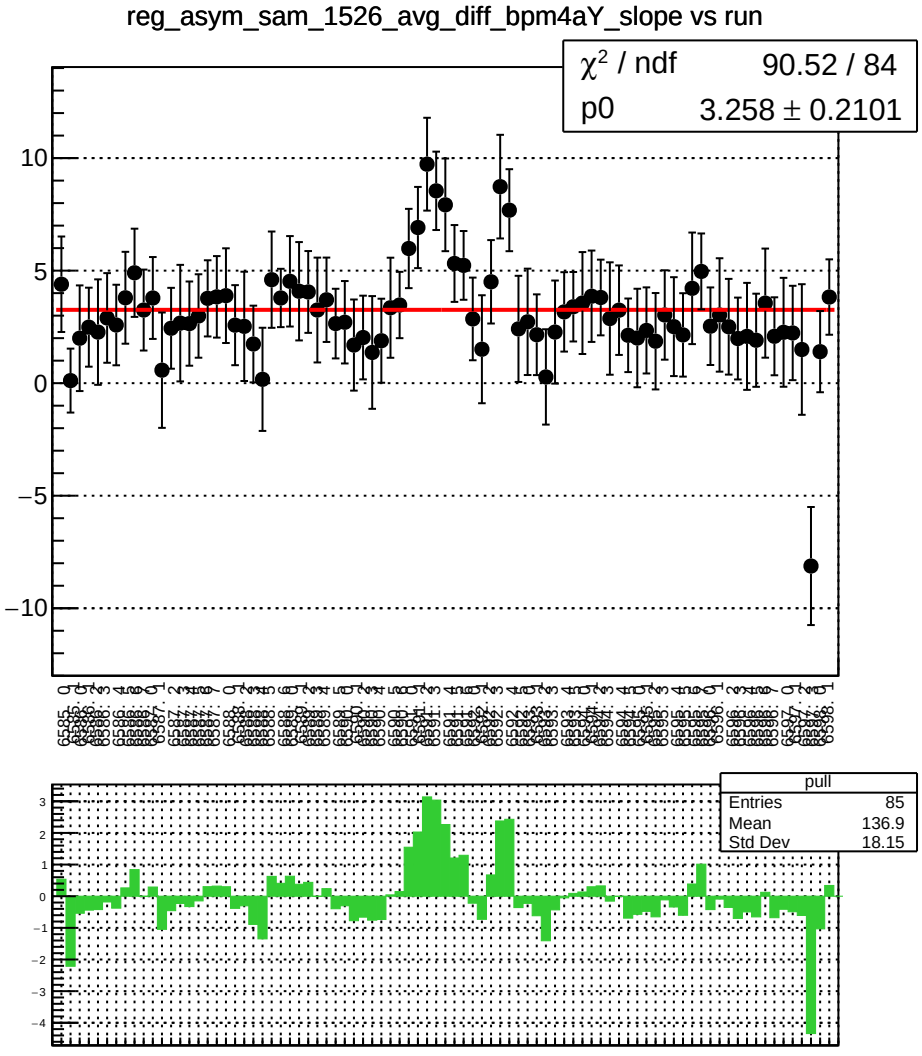

pull1D
Entries 85
Mean 0.03373
Std Dev 1.073

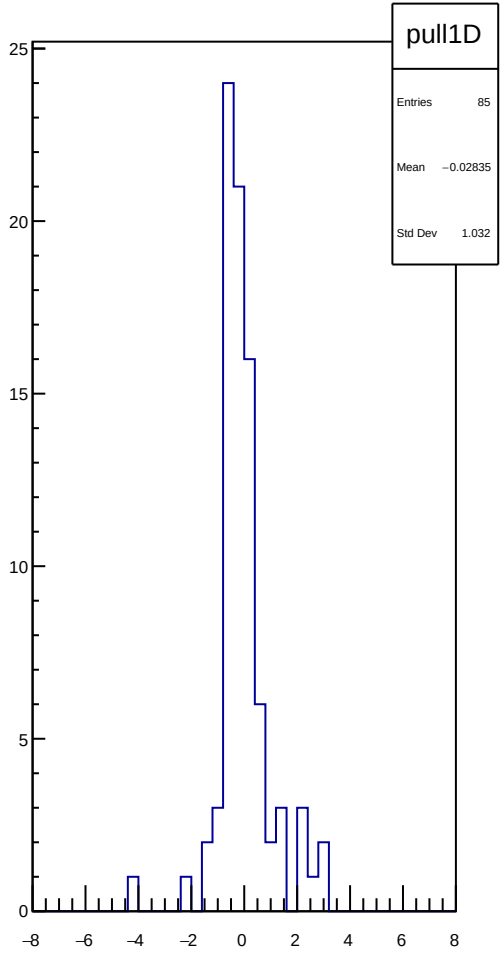

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 7.736 / 84
p0 0.09445 ± 0.03577
pull
Entries 85
Mean −420.5
Std Dev 458.6

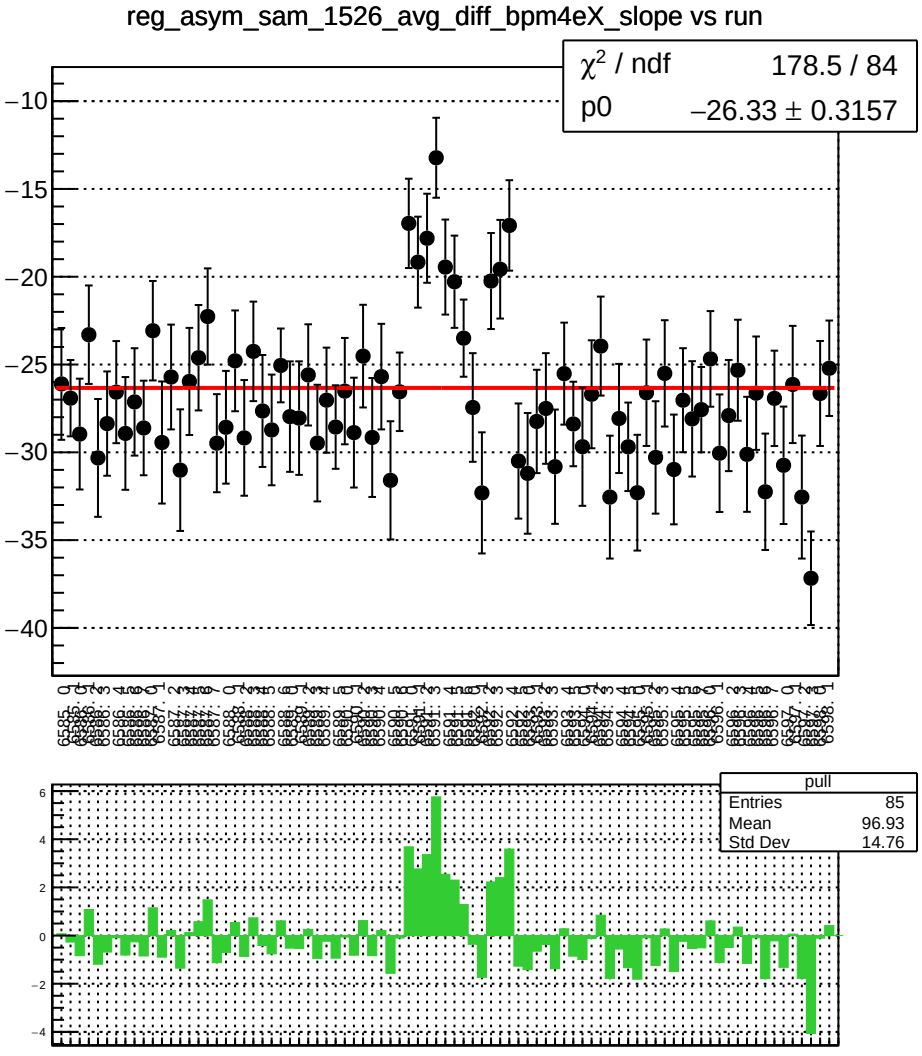

pull1D
Entries 85
Mean −0.004584
Std Dev 0.3016

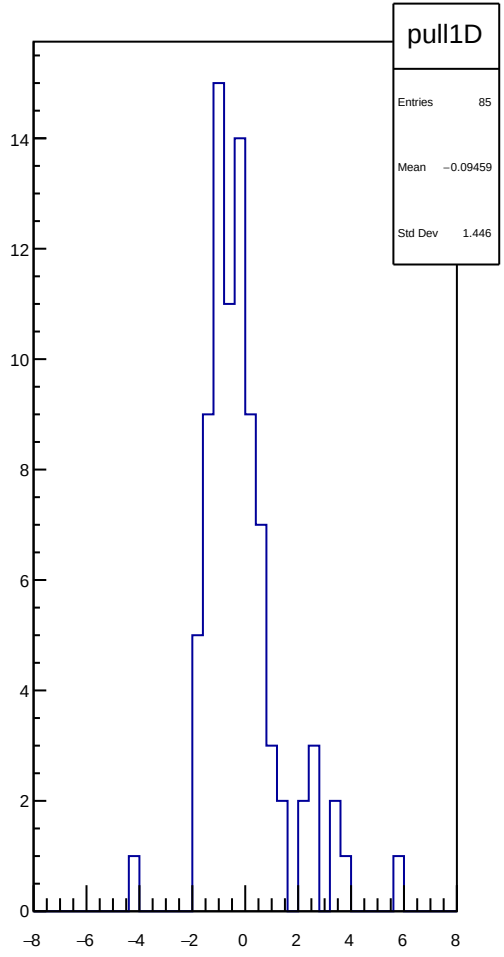

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 182.6 / 84
p0 −9.442 ± 0.2969
pull
Entries 85
Mean 78.39
Std Dev 50.24

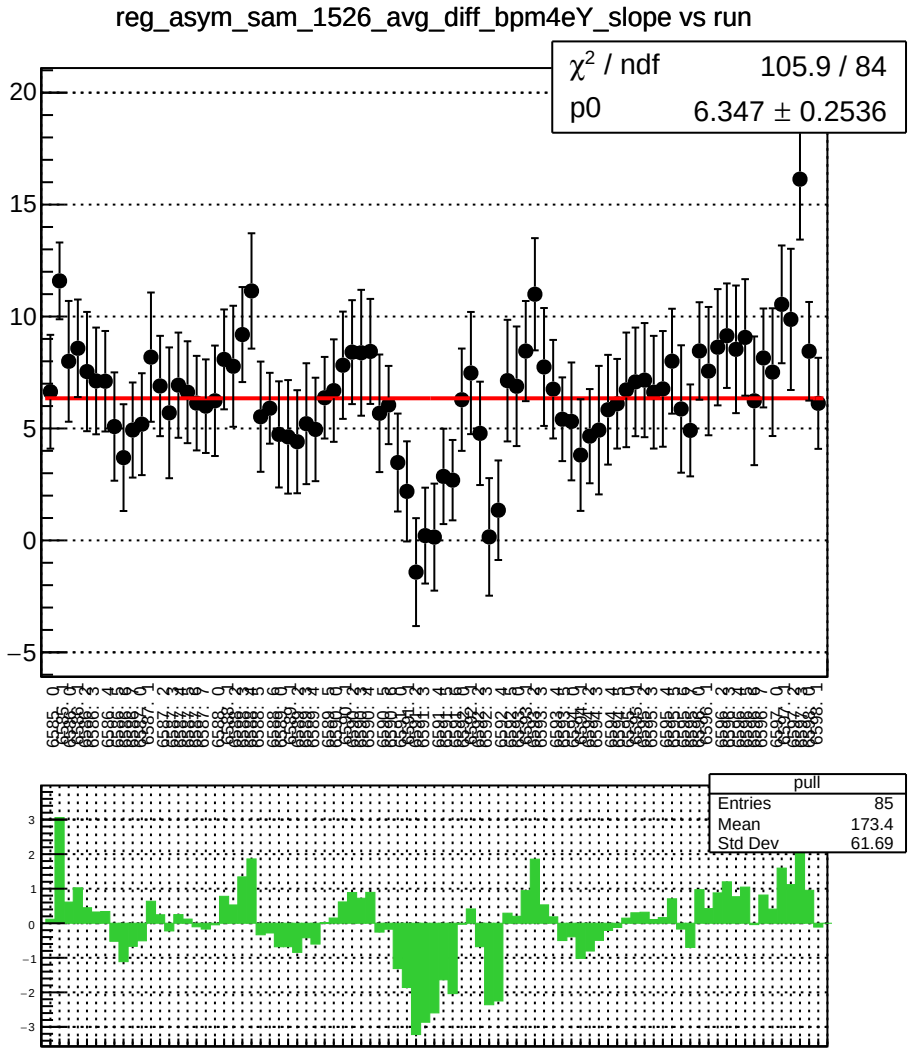

pull1D
Entries 85
Mean 0.08813
Std Dev 1.463

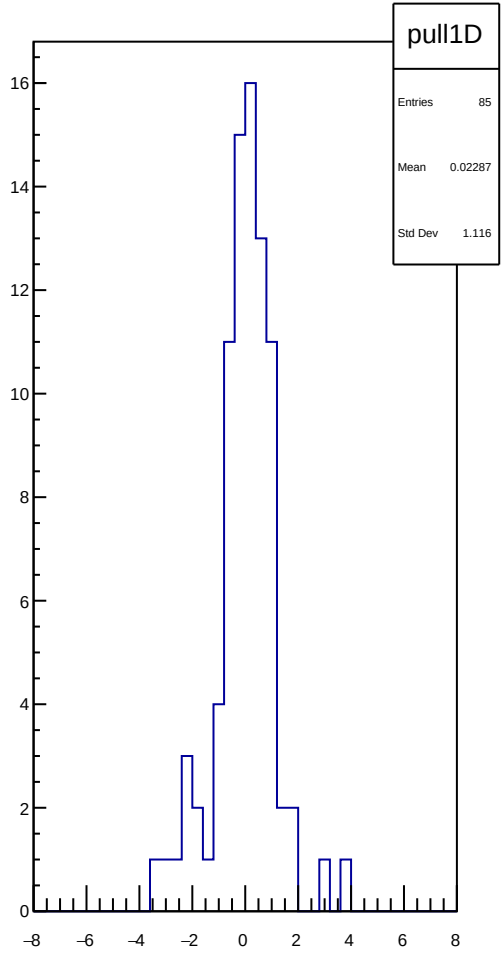

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.52 / 84
p0 3.258 ± 0.2101
pull
Entries 85
Mean 136.9
Std Dev 18.15

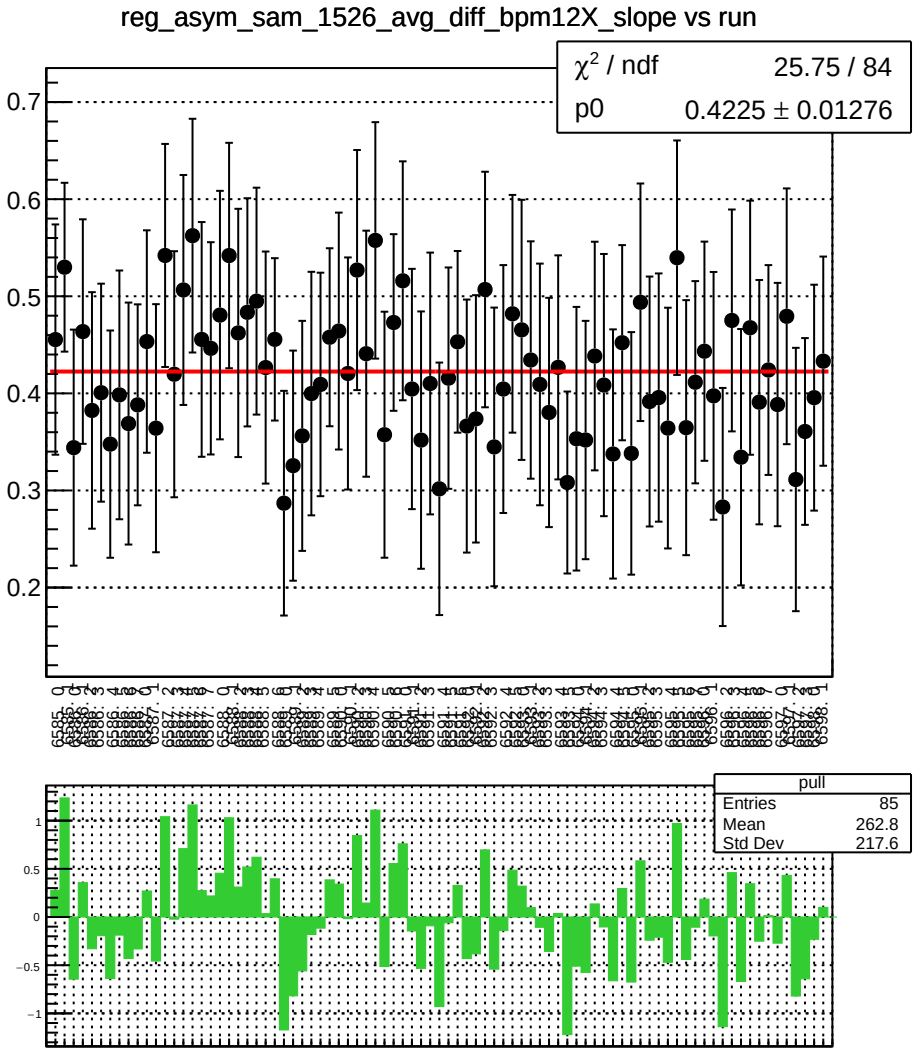

pull1D
Entries 85
Mean −0.02835
Std Dev 1.032

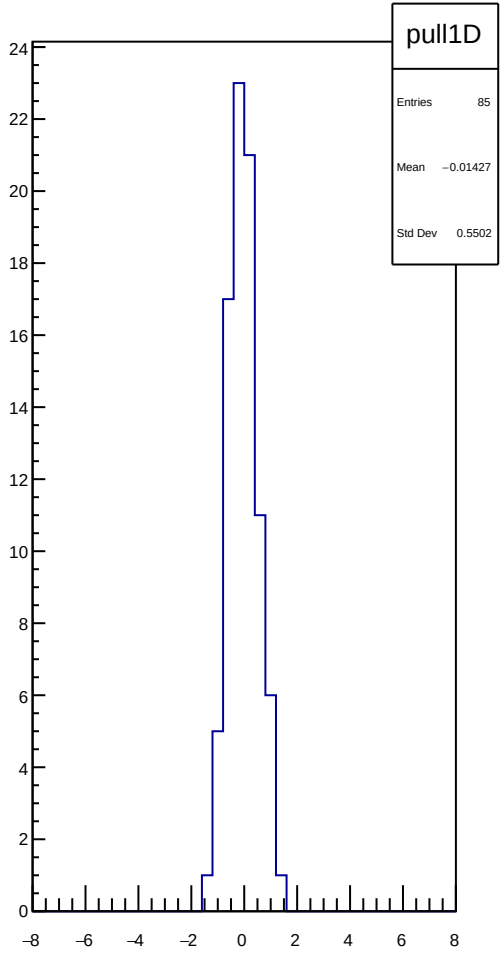

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 178.5 / 84
p0 −26.33 ± 0.3157
pull
Entries 85
Mean 96.93
Std Dev 14.76

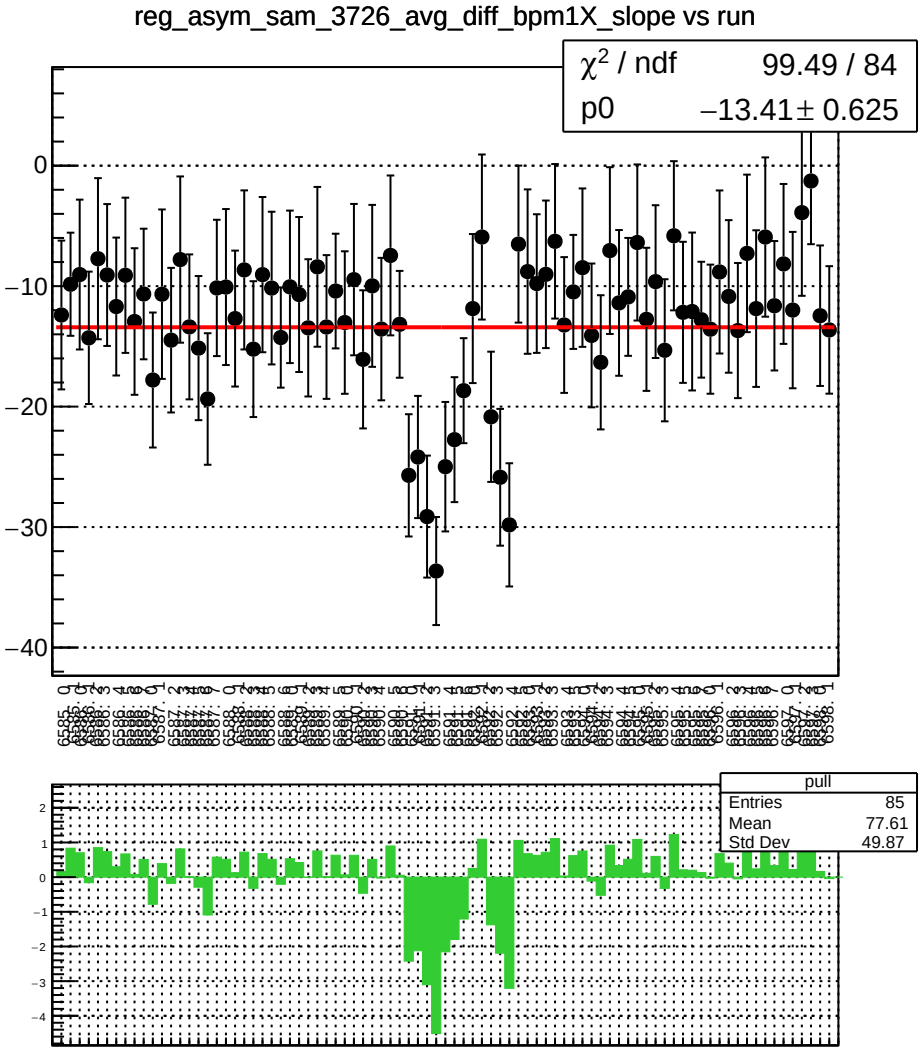

pull1D
Entries 85
Mean −0.09459
Std Dev 1.446

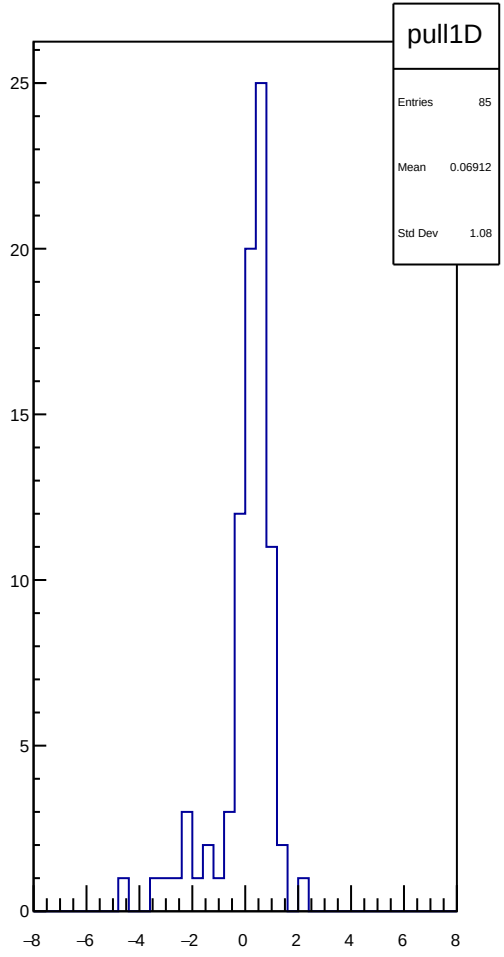

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 105.9 / 84
p0 6.347 ± 0.2536
pull
Entries 85
Mean 173.4
Std Dev 61.69

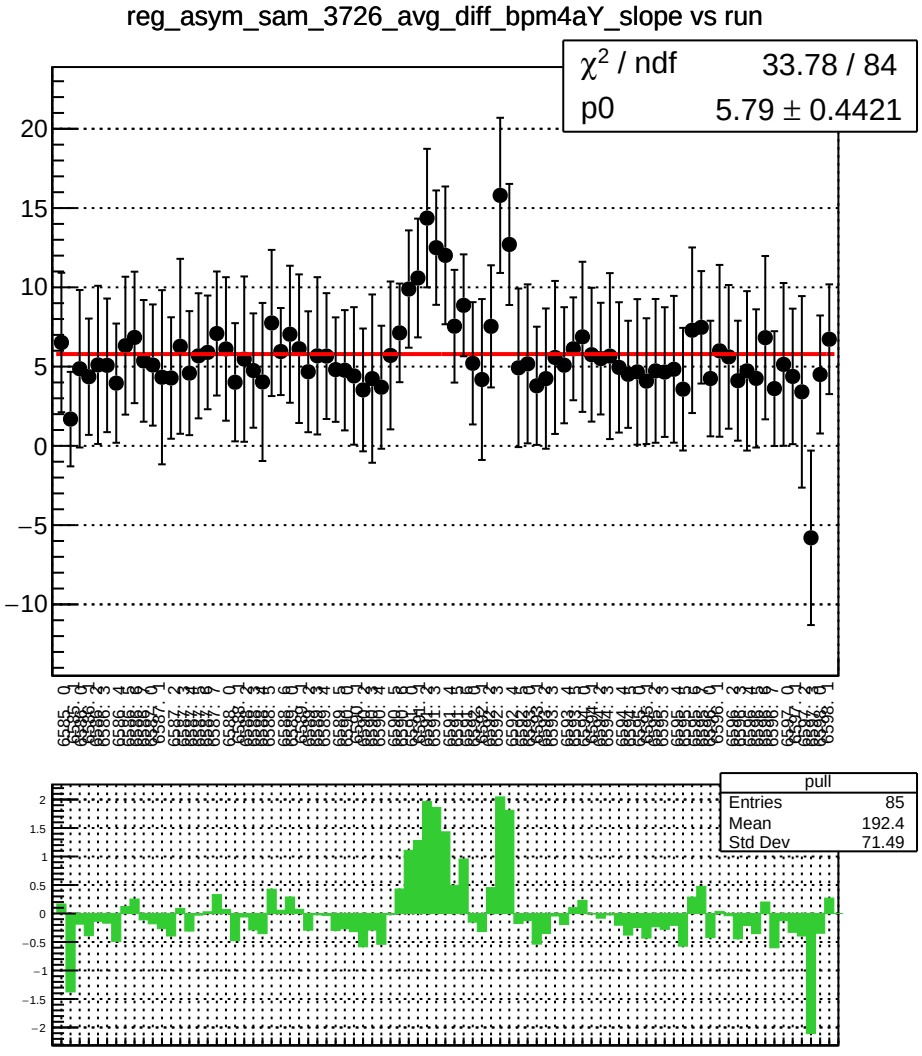

pull1D
Entries 85
Mean 0.02287
Std Dev 1.116

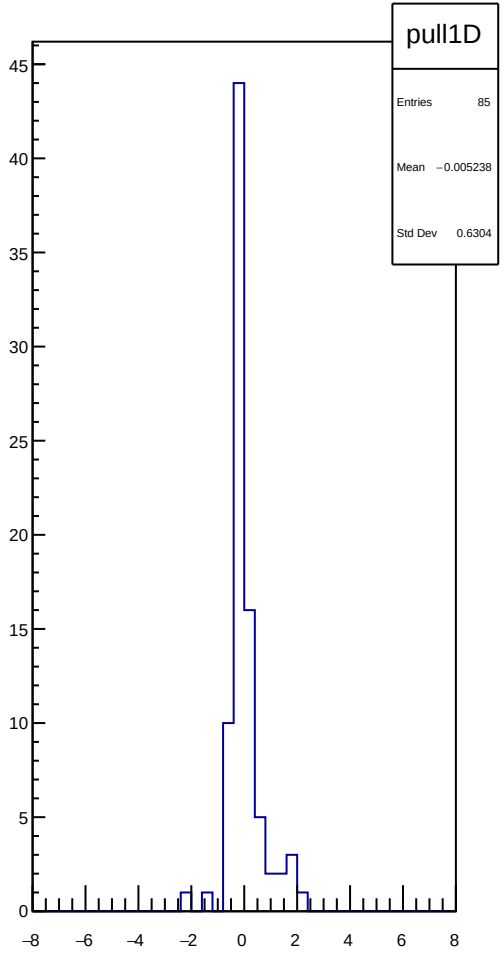

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 25.75 / 84
p0 0.4225 ± 0.01276
pull
Entries 85
Mean 262.8
Std Dev 217.6


pull1D
Entries 85
Mean −0.01427
Std Dev 0.5502

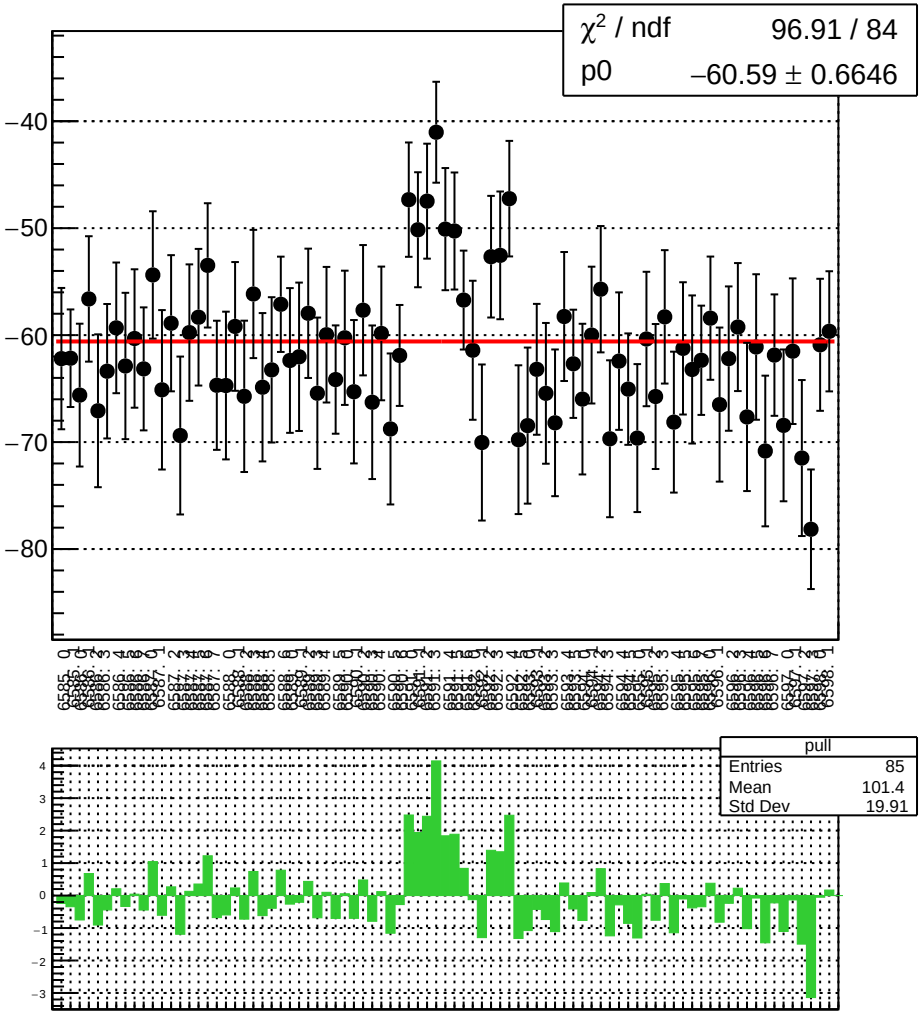

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ^2 / ndf 99.49 / 84
p0 −13.41 ± 0.625
pull
Entries 85
Mean 77.61
Std Dev 49.87

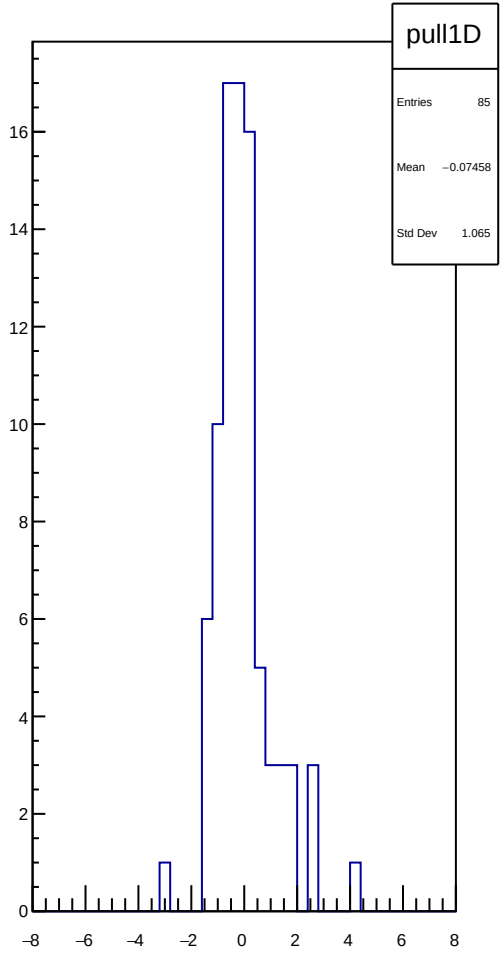

pull1D
Entries 85
Mean 0.06912
Std Dev 1.08

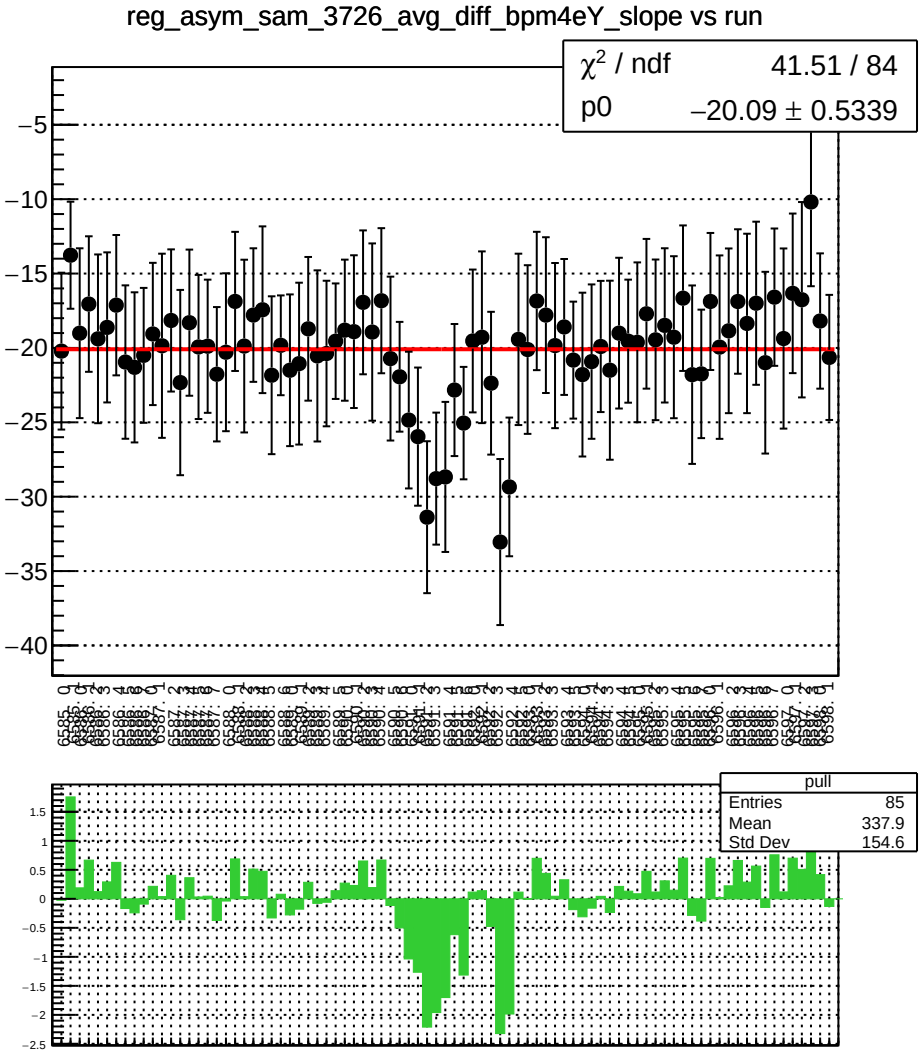

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.78 / 84
p0 5.79 ± 0.4421
pull
Entries 85
Mean 192.4
Std Dev 71.49

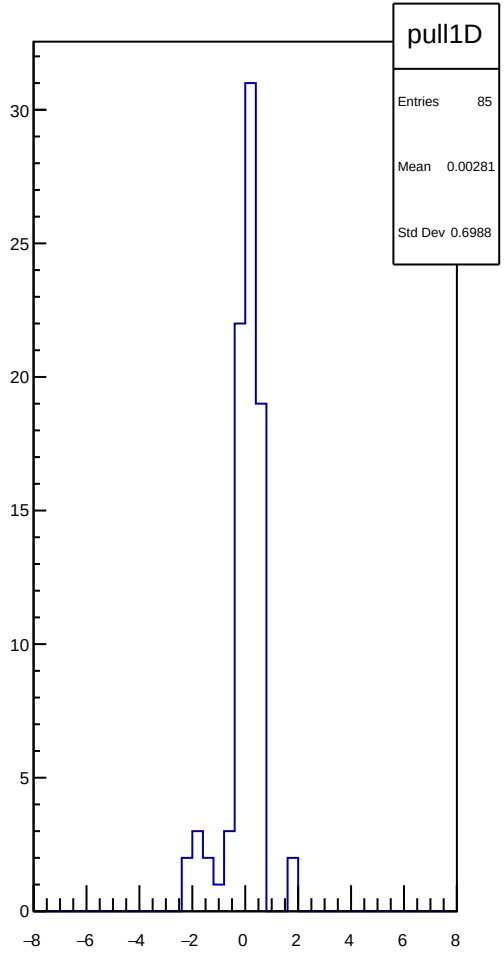

pull1D
Entries 85
Mean −0.005238
Std Dev 0.6304

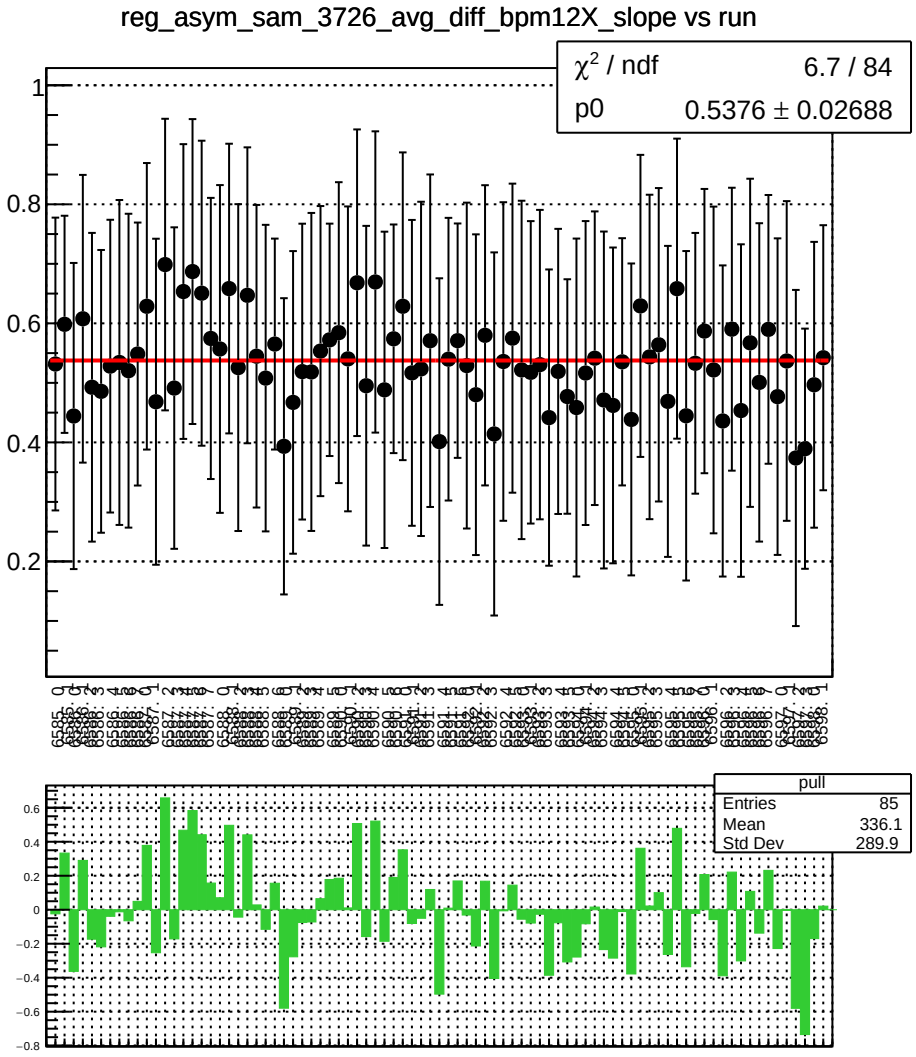
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run

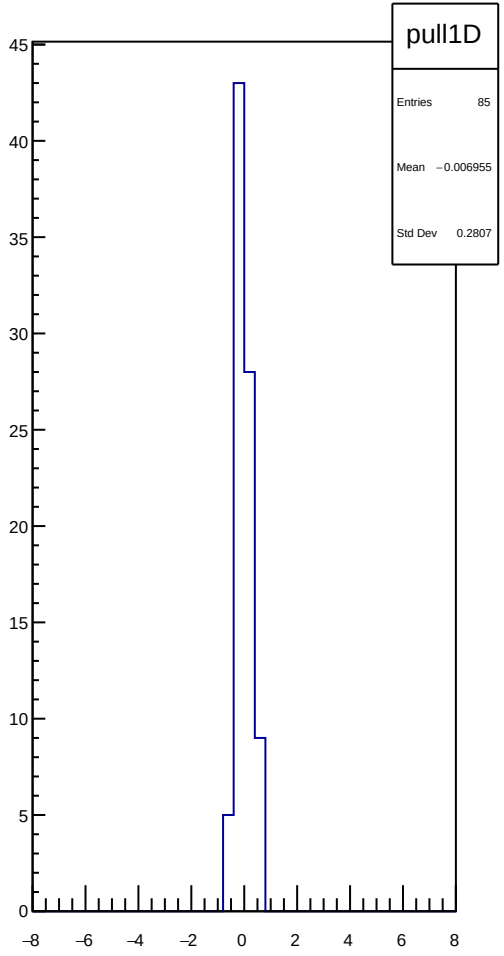




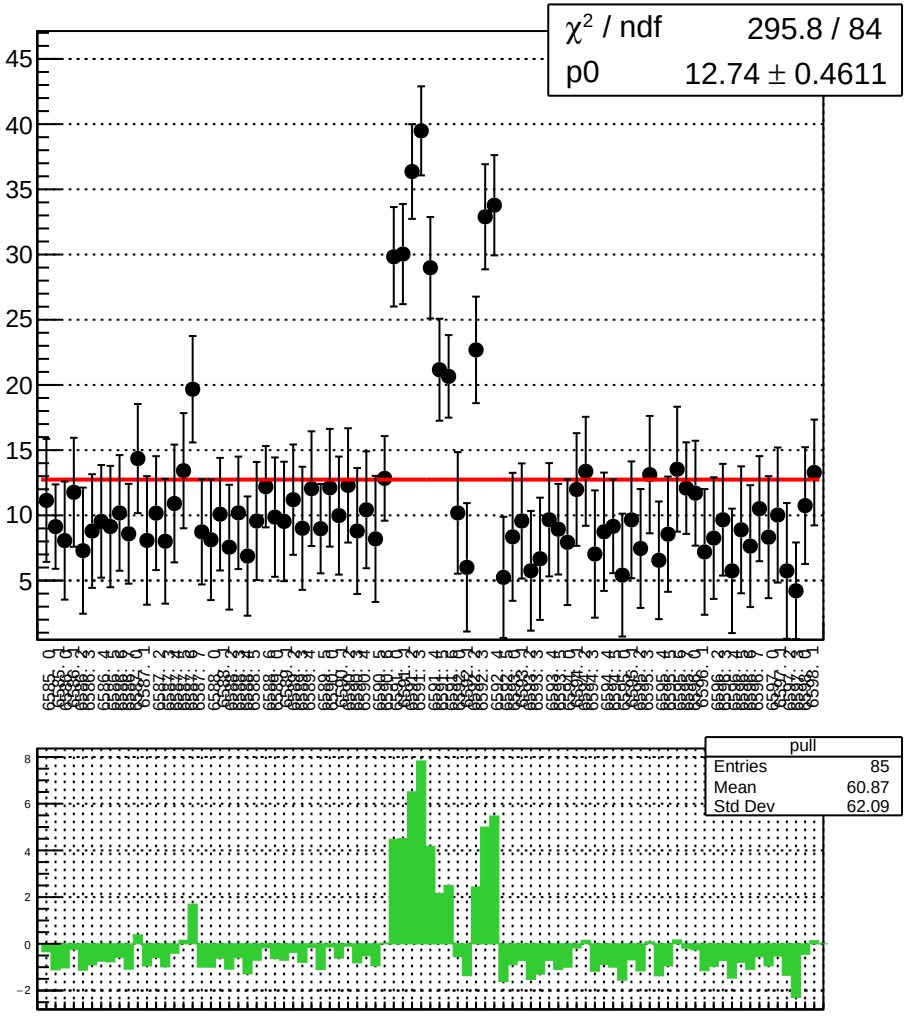

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.51 / 84
p0 −20.09 ± 0.5339
pull
Entries 85
Mean 337.9
Std Dev 154.6

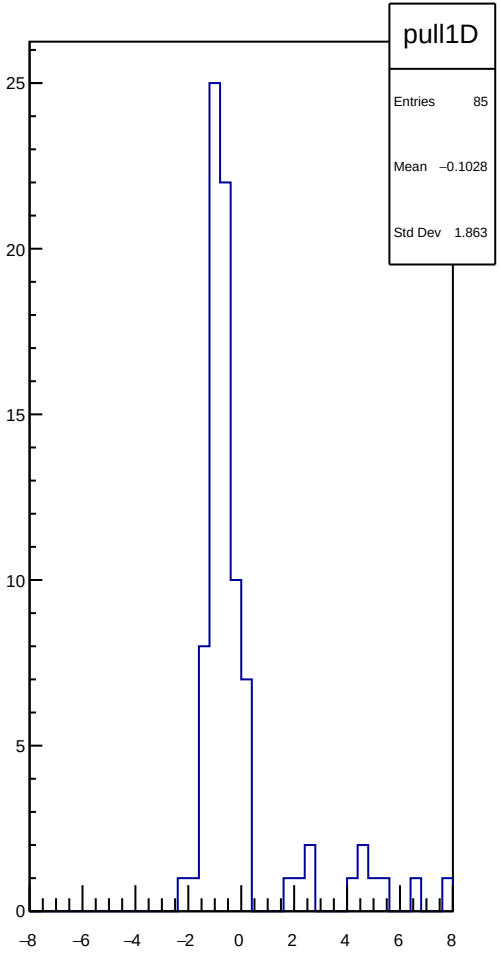

pull1D
Entries 85
Mean 0.00281
Std Dev 0.6988

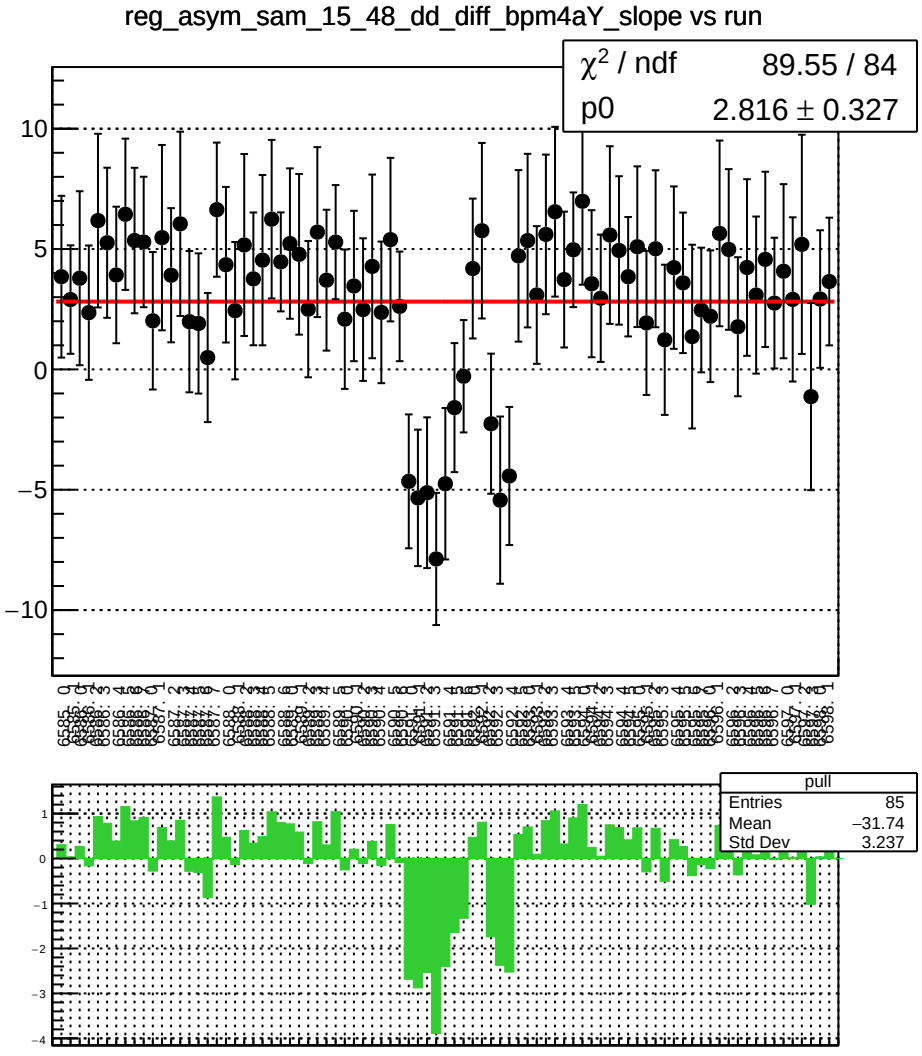

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 6.7 / 84
p0 0.5376 ± 0.02688
pull
Entries 85
Mean 336.1
Std Dev 289.9

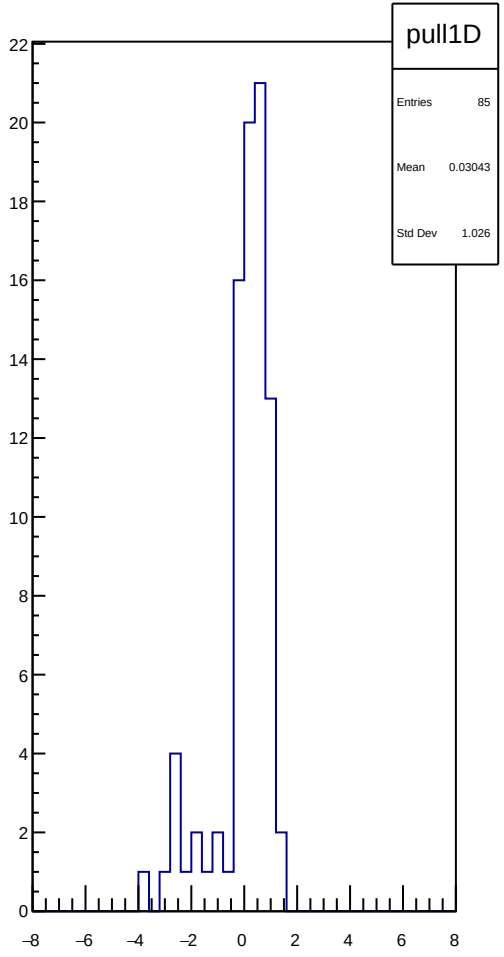

pull1D
Entries 85
Mean −0.006955
Std Dev 0.2807

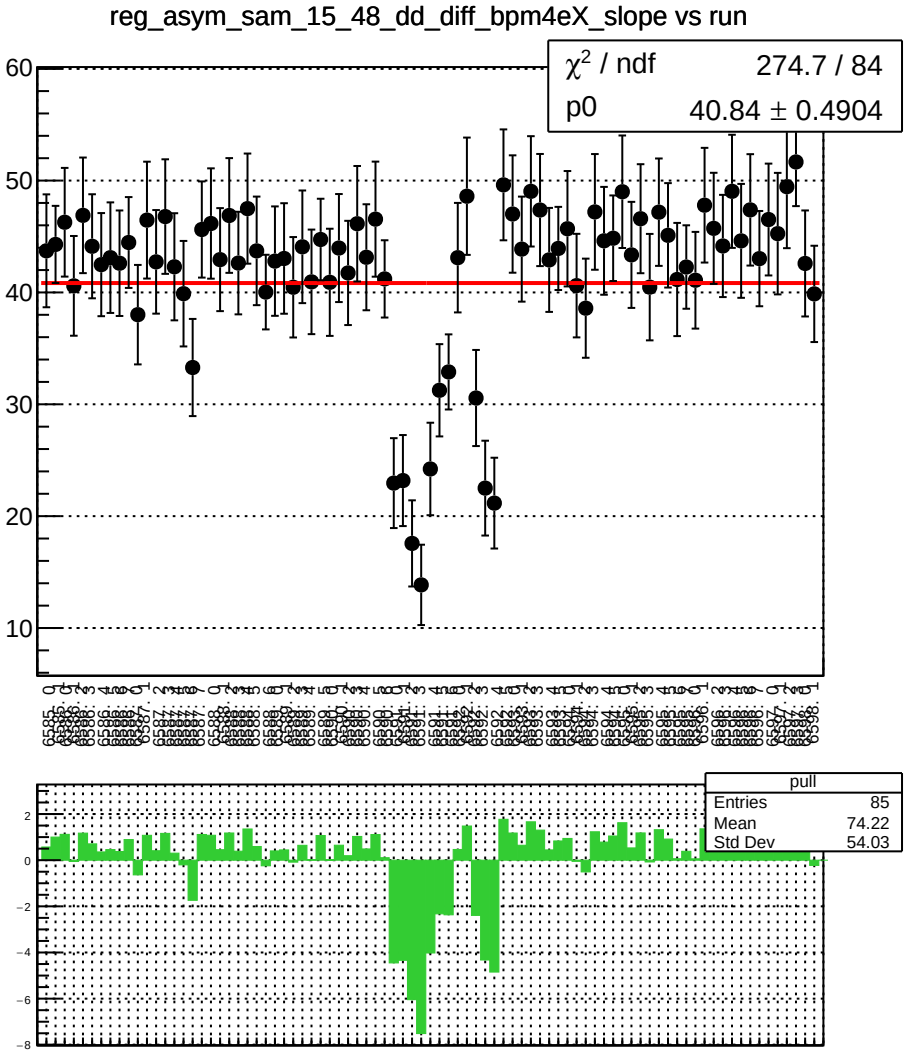
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run

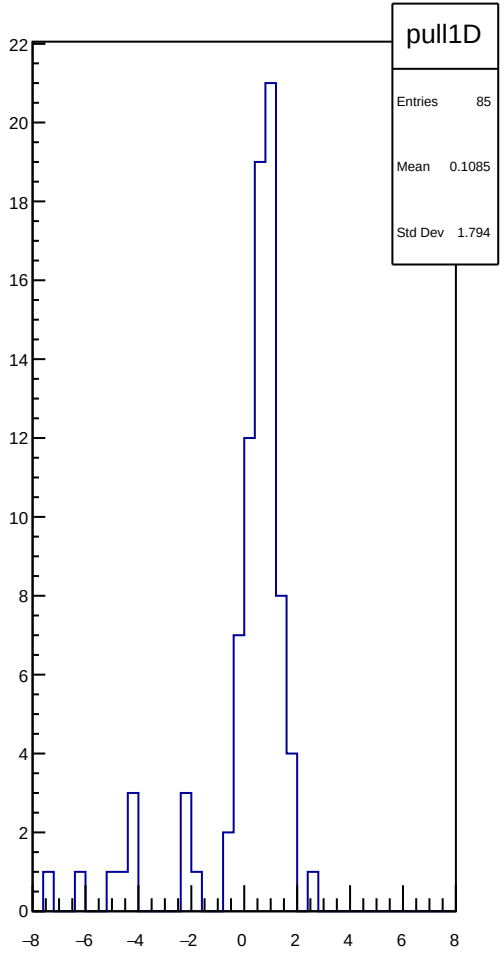


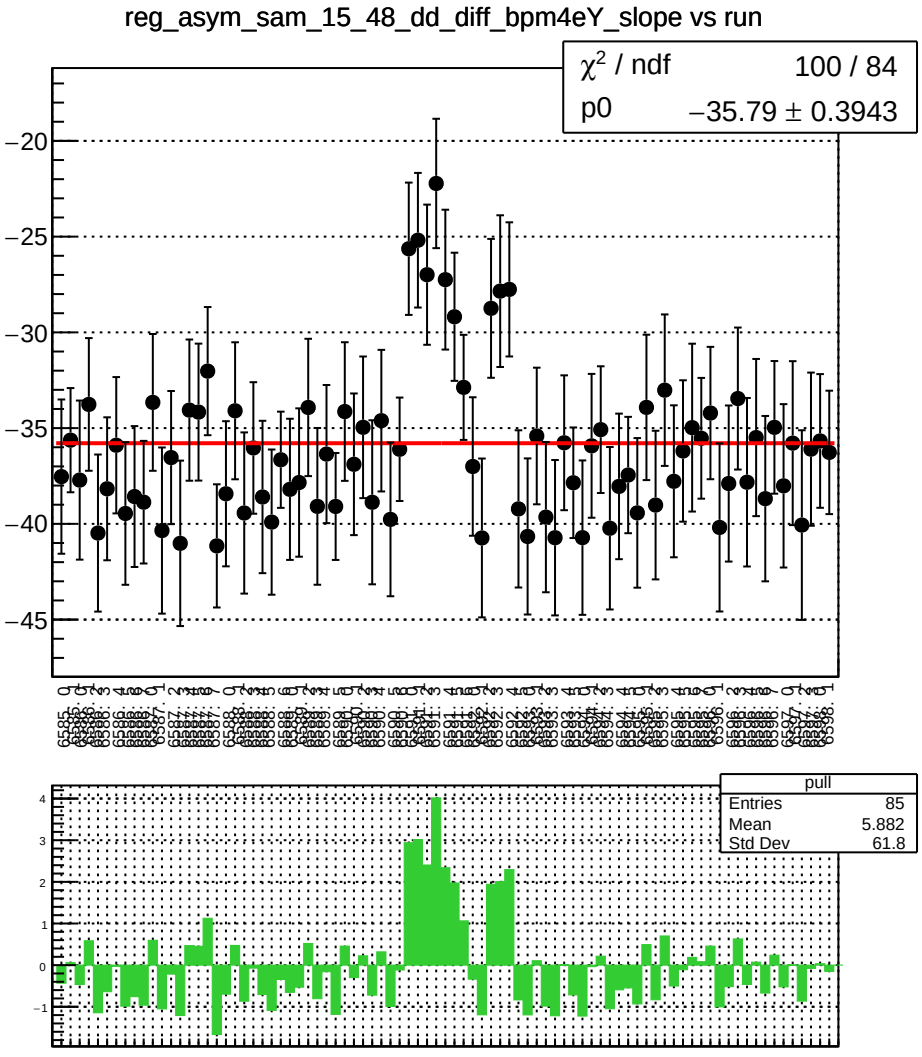


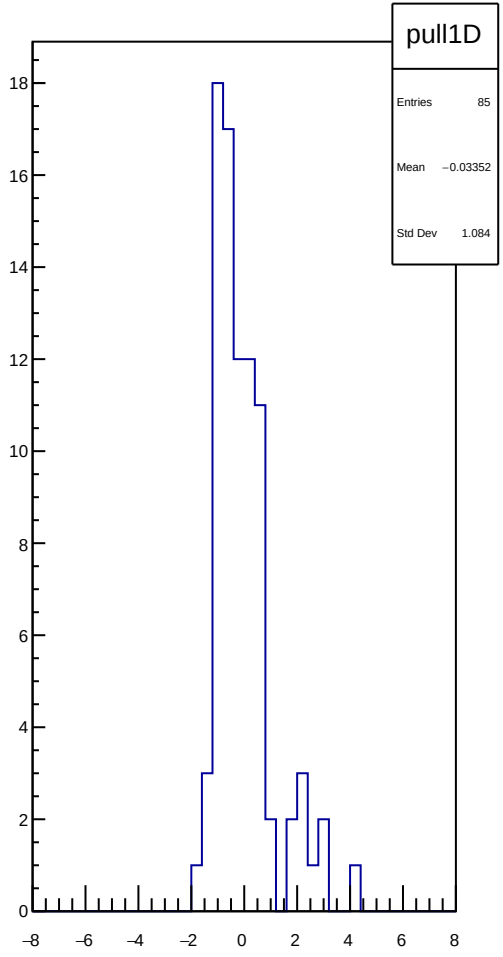

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.55 / 84
p0 2.816 ± 0.327
pull
Entries 85
Mean −31.74
Std Dev 3.237

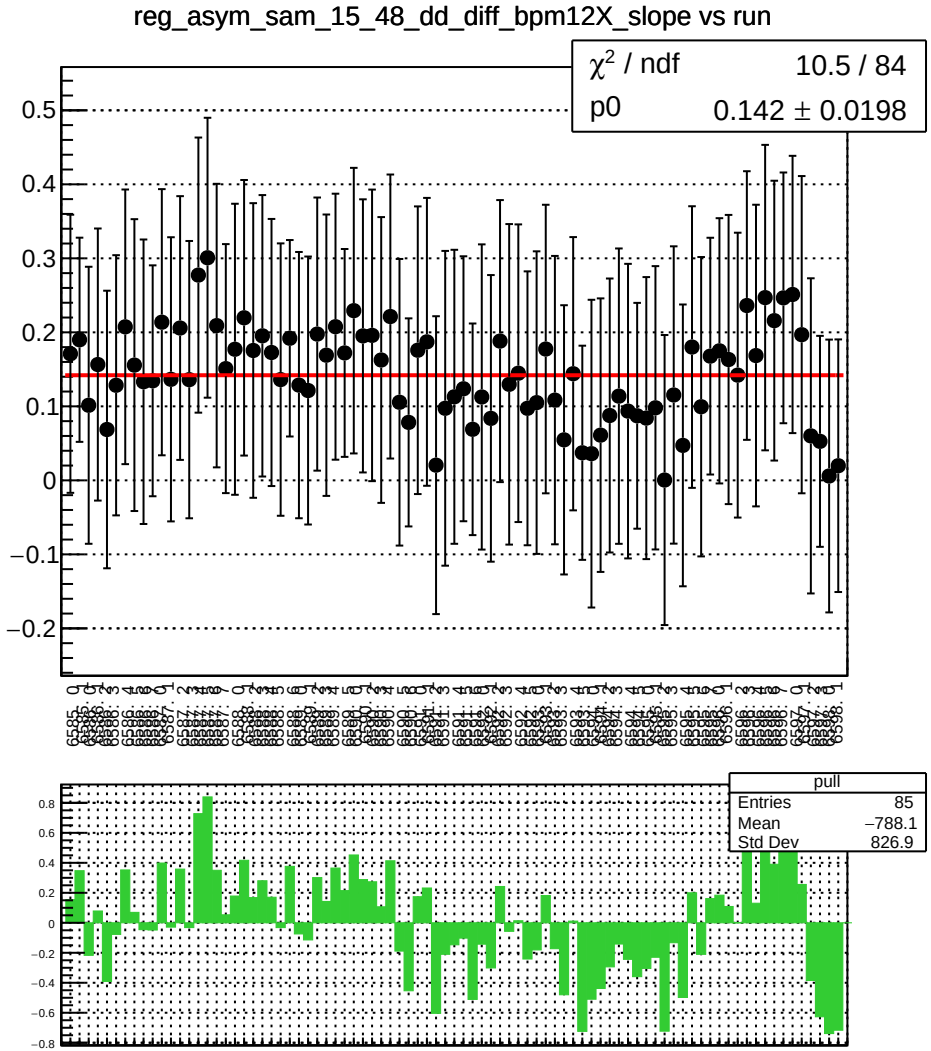

pull1D
Entries 85
Mean 0.03043
Std Dev 1.026

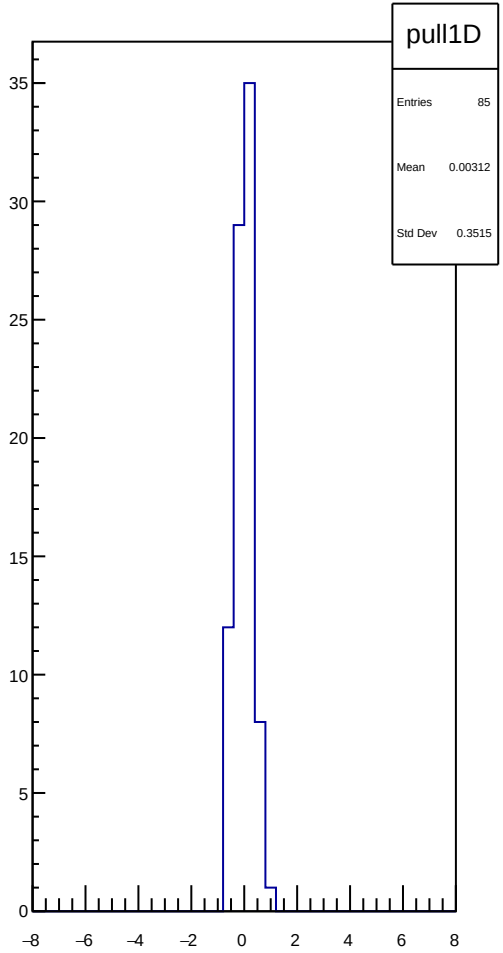

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 274.7 / 84
p0 40.84 ± 0.4904
pull
Entries 85
Mean 74.22
Std Dev 54.03


pull1D
Entries 85
Mean 0.1085
Std Dev 1.794

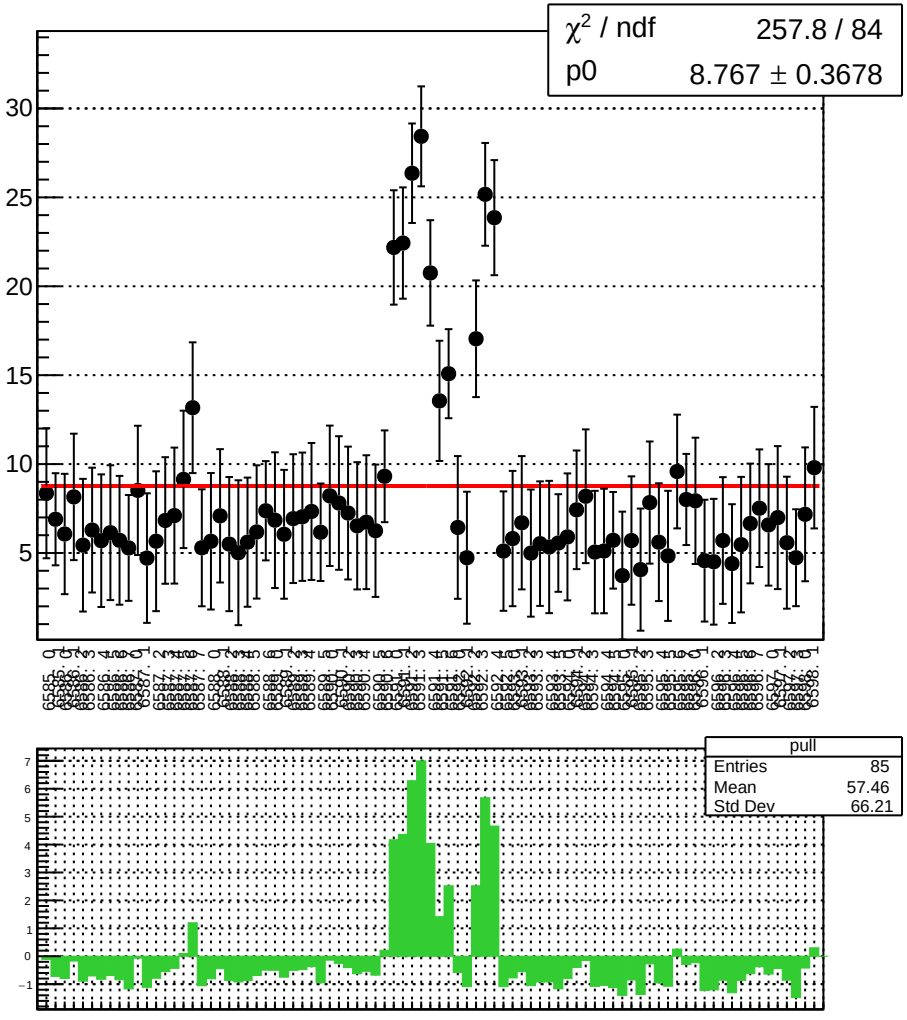

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 100 / 84
p0 −35.79 ± 0.3943
pull
Entries 85
Mean 5.882
Std Dev 61.8

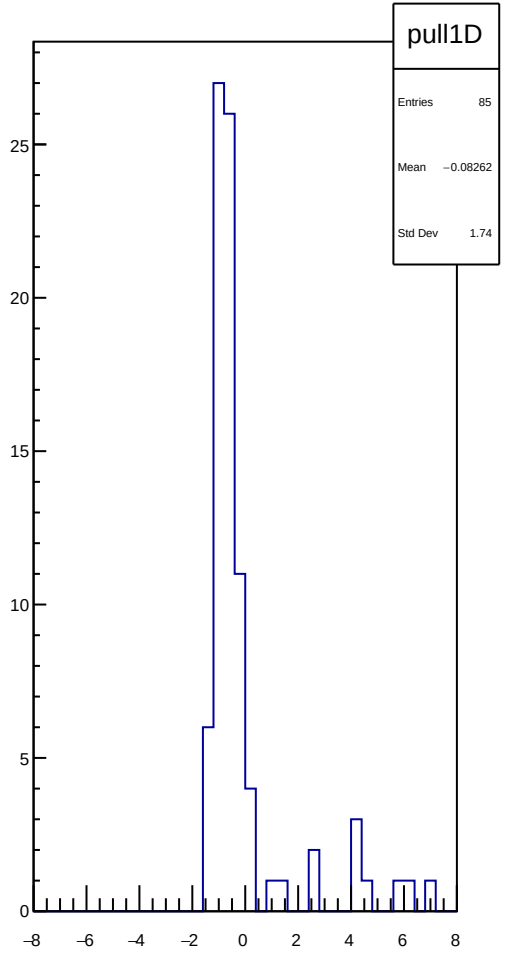

pull1D
Entries 85
Mean −0.03352
Std Dev 1.084

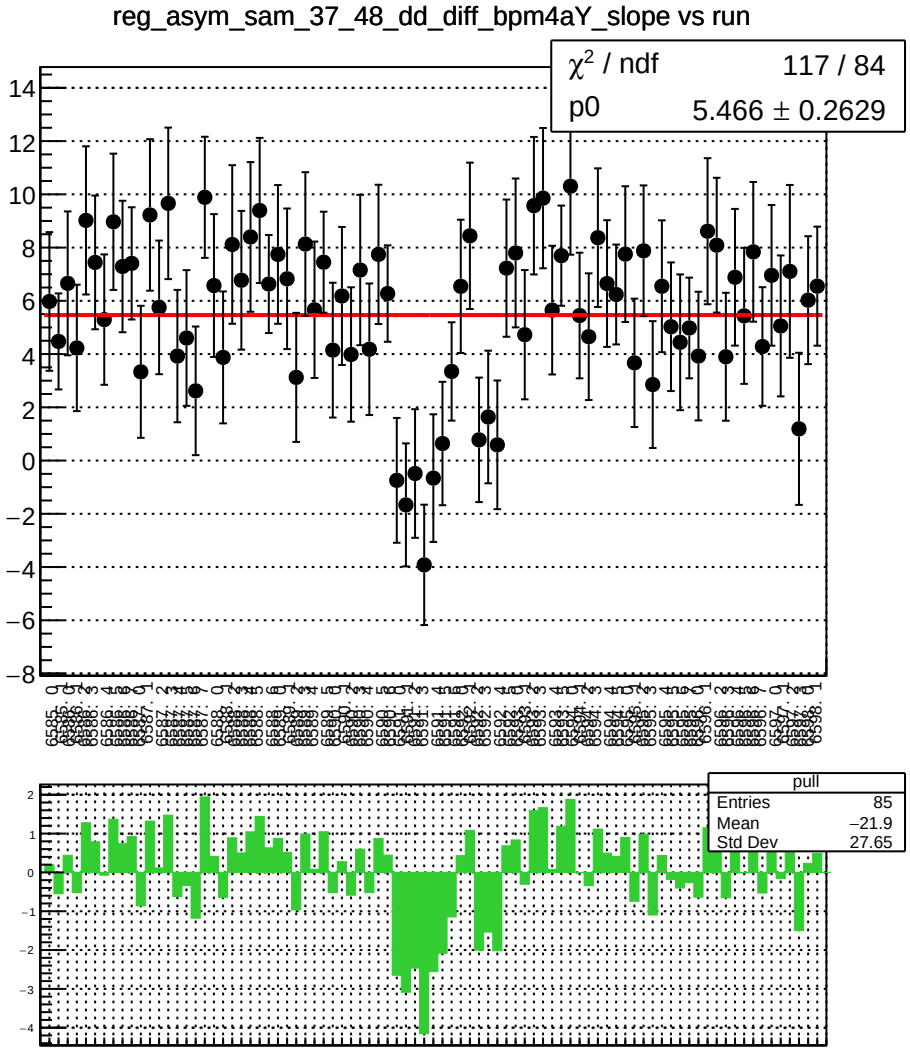

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.5 / 84
p0 0.142 ± 0.0198
pull
Entries 85
Mean −788.1
Std Dev 826.9

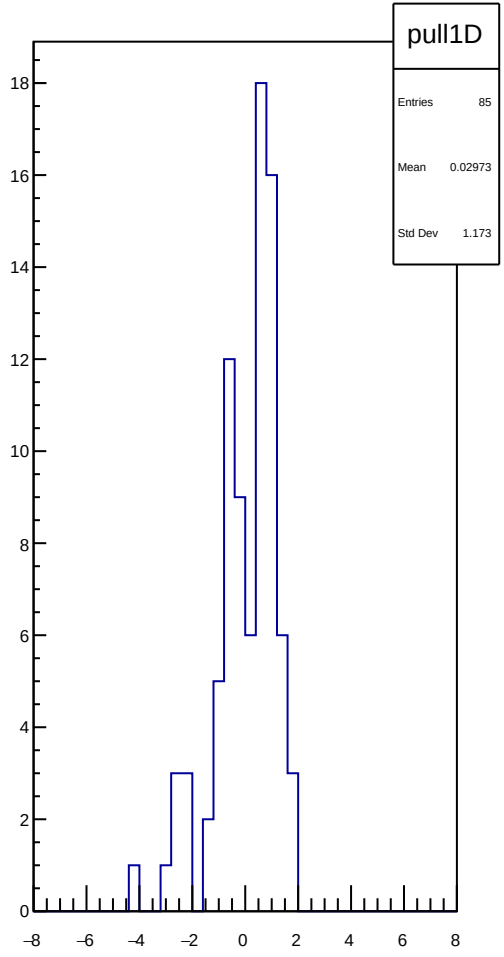

pull1D
Entries 85
Mean 0.00312
Std Dev 0.3515

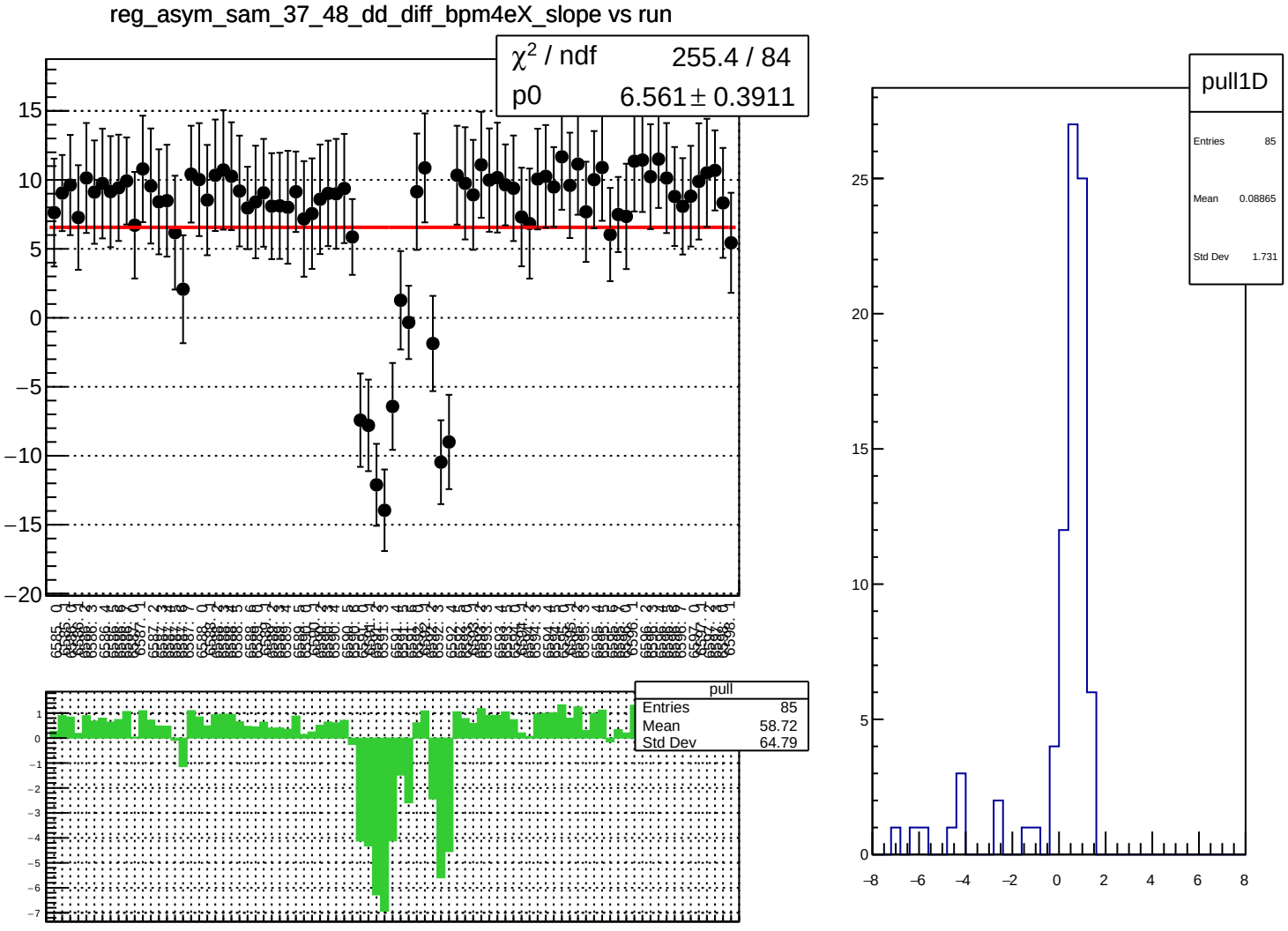
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run

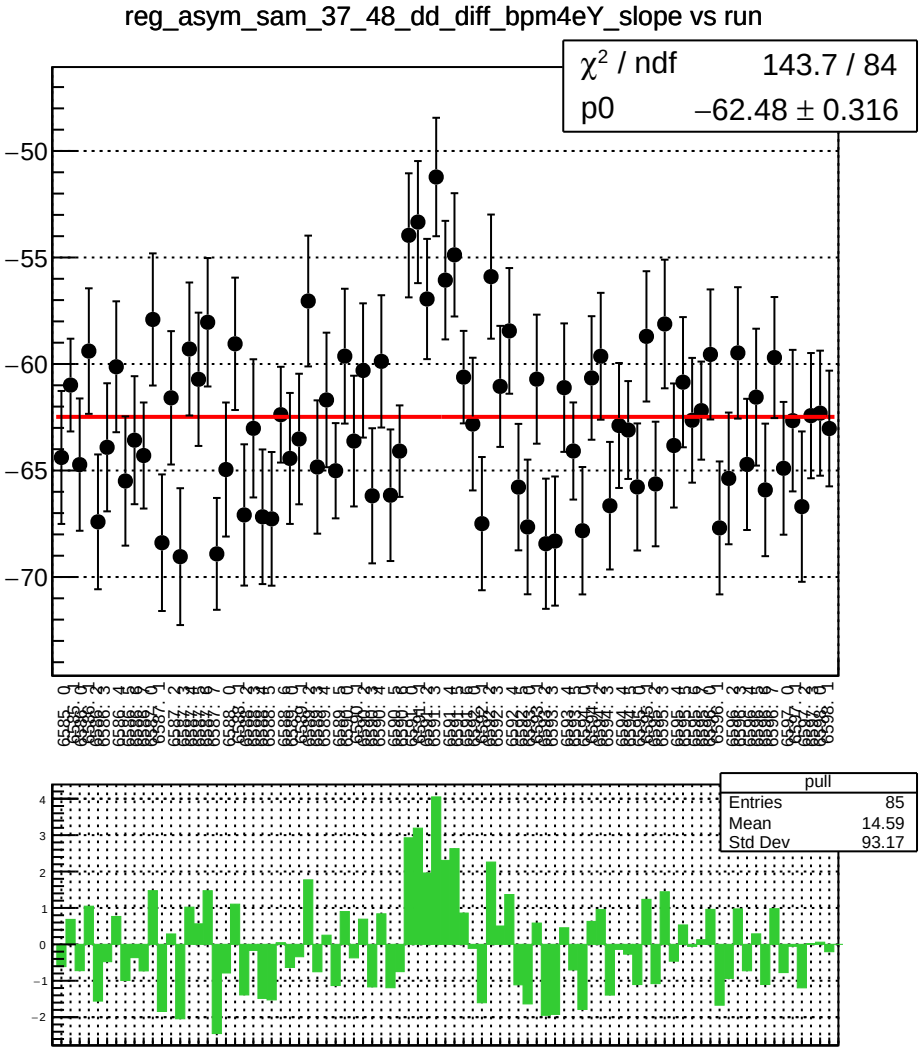


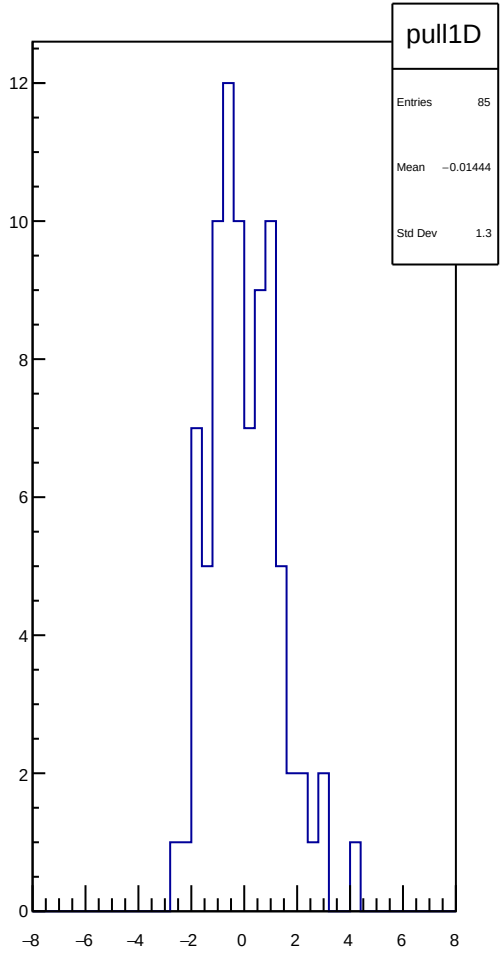


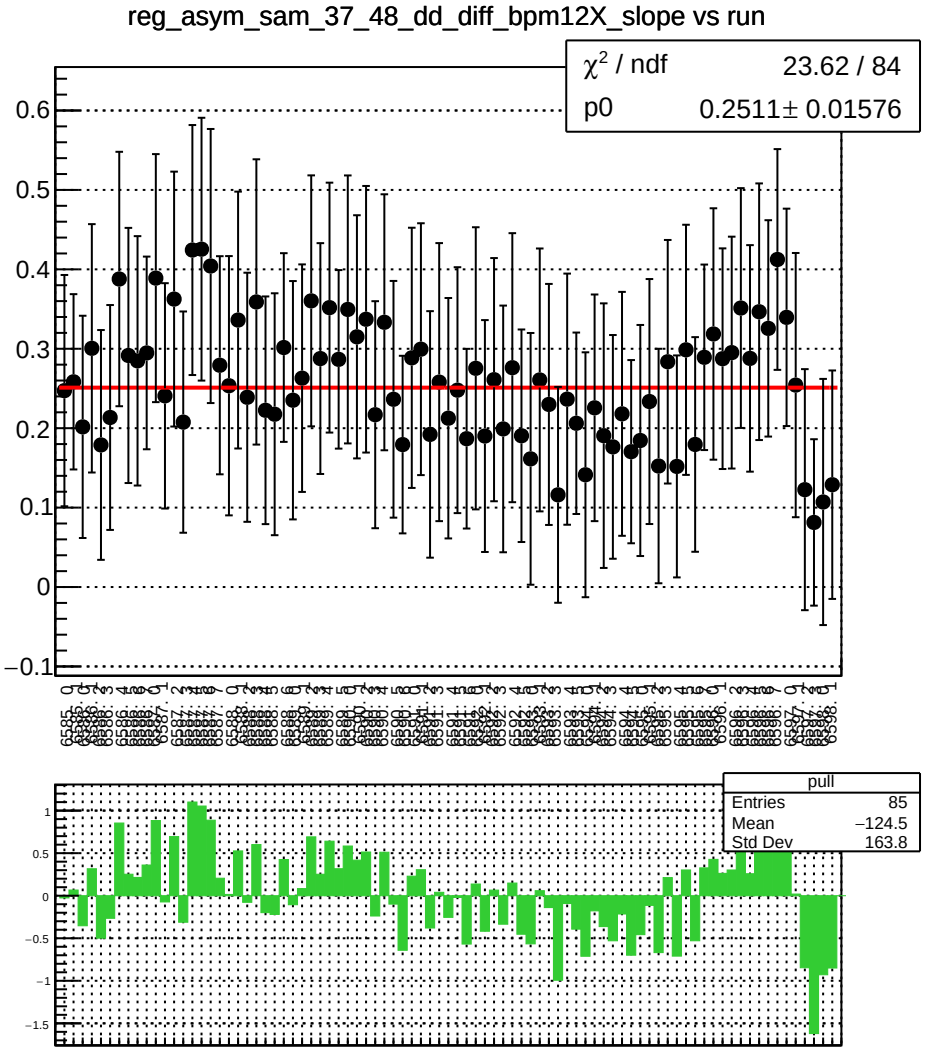

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 117 / 84
p0 5.466 ± 0.2629
pull
Entries 85
Mean −21.9
Std Dev 27.65

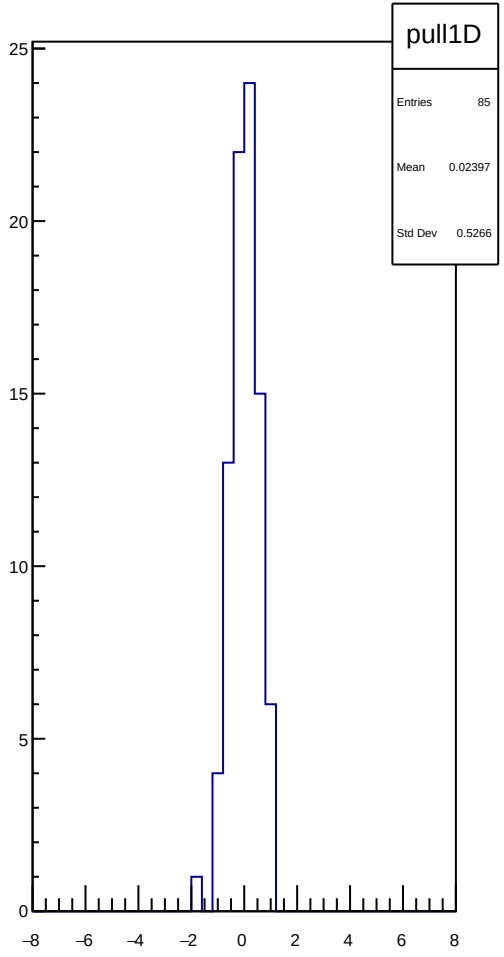

pull1D
Entries 85
Mean 0.02973
Std Dev 1.173

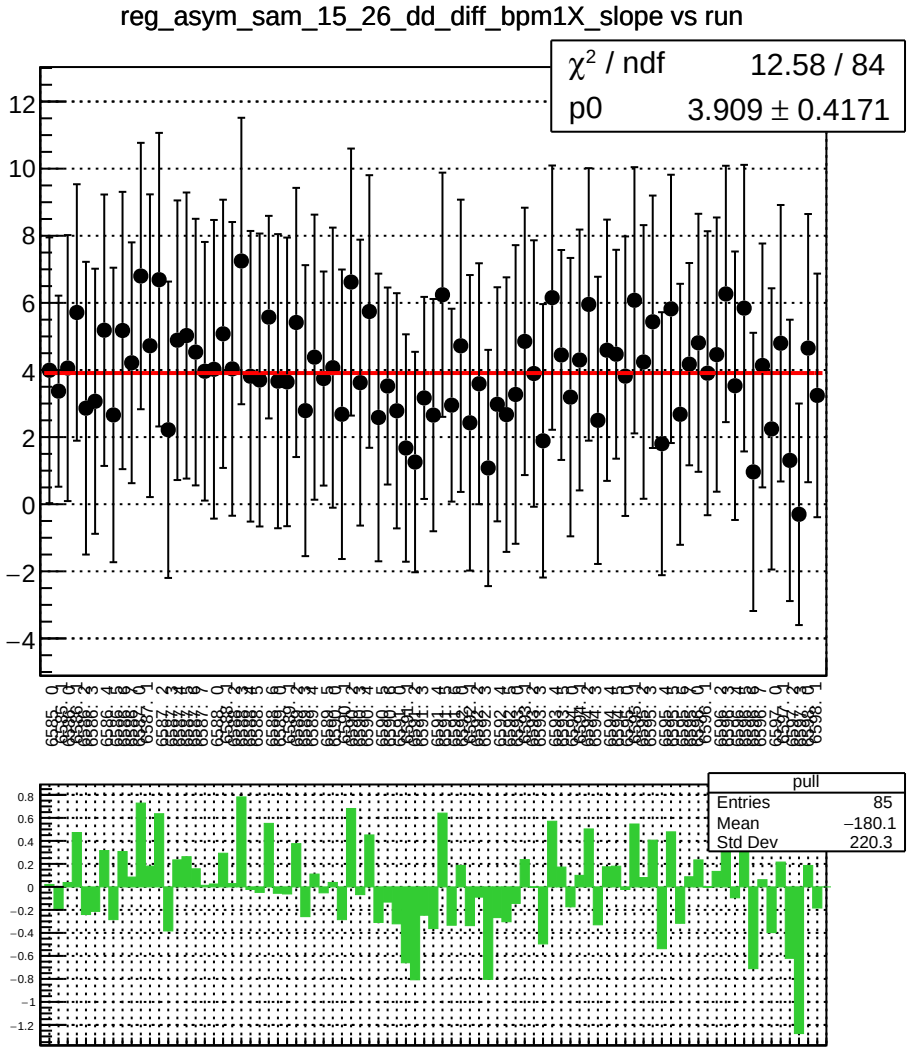

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 255.4 / 84
p0 6.561 ± 0.3911
pull
Entries 85
Mean 58.72
Std Dev 64.79
pull1D
Entries 85
Mean 0.08865
Std Dev 1.731

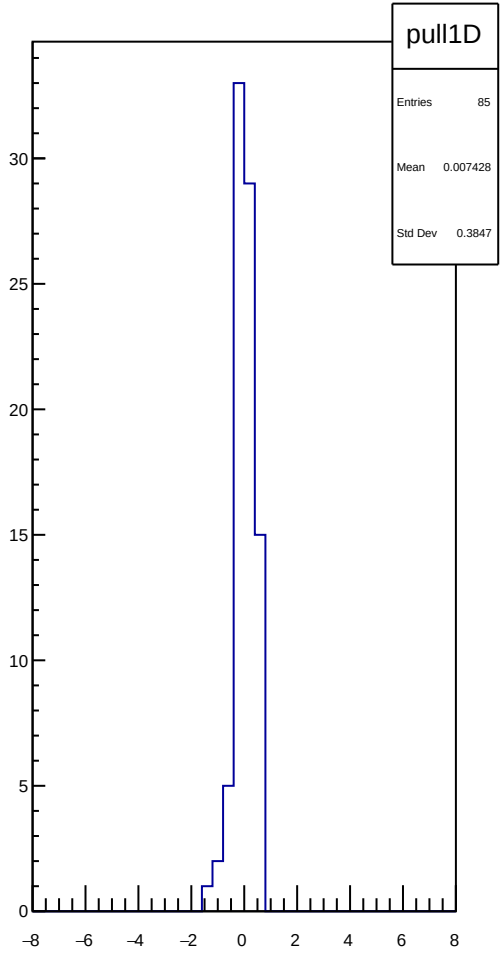

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 143.7 / 84
p0 −62.48 ± 0.316
pull
Entries 85
Mean 14.59
Std Dev 93.17

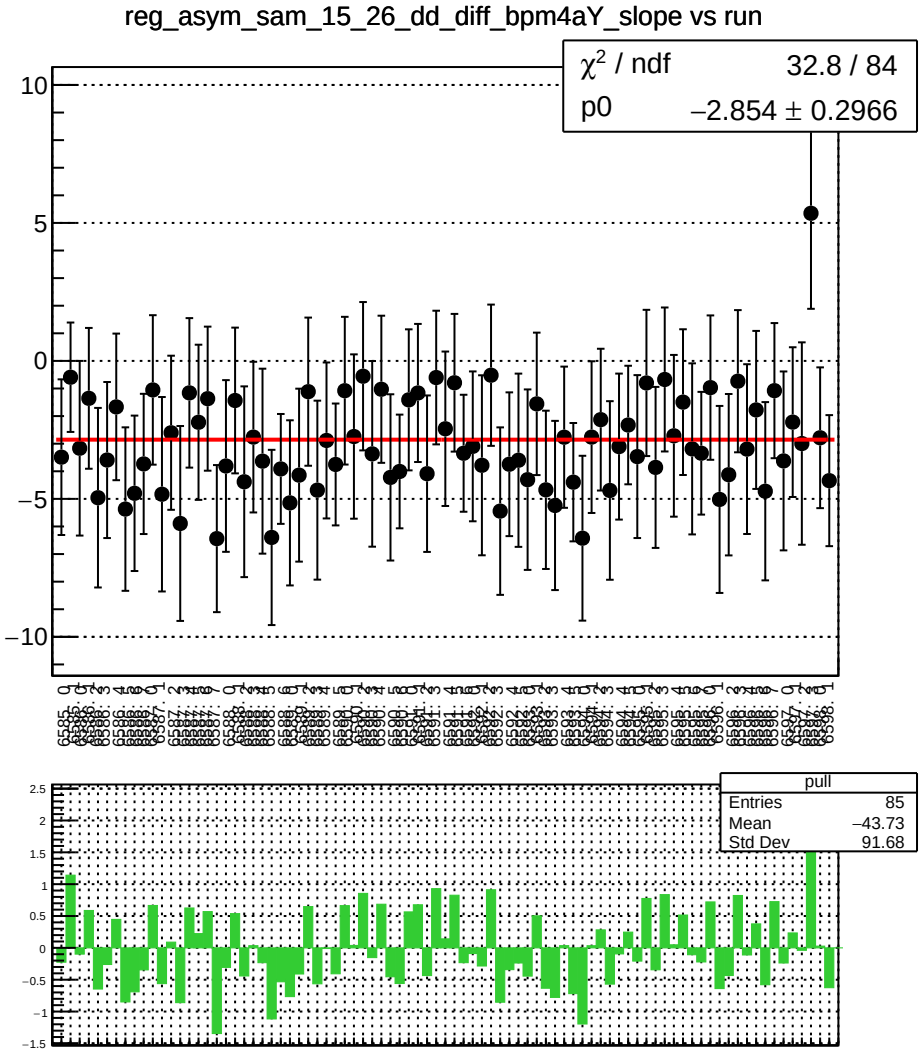

pull1D
Entries 85
Mean −0.01444
Std Dev 1.3

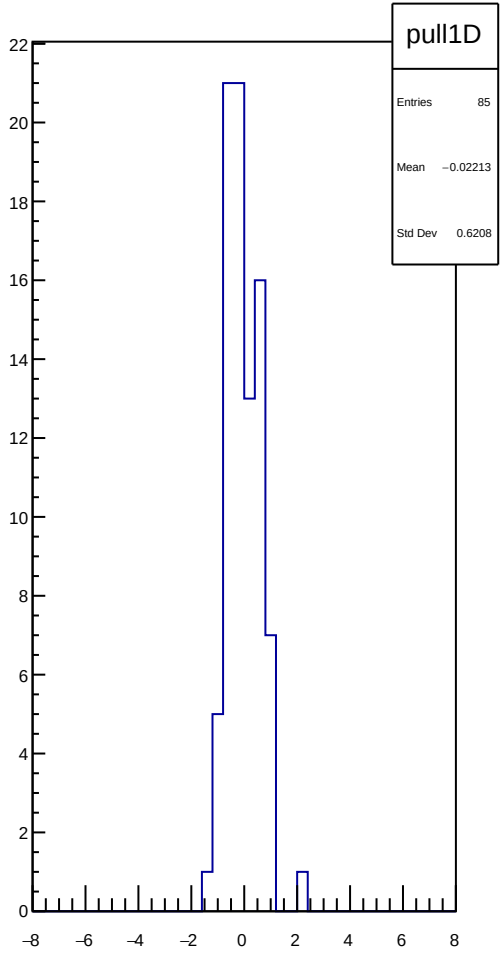

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 23.62 / 84
p0 0.2511± 0.01576
pull
Entries 85
Mean −124.5
Std Dev 163.8

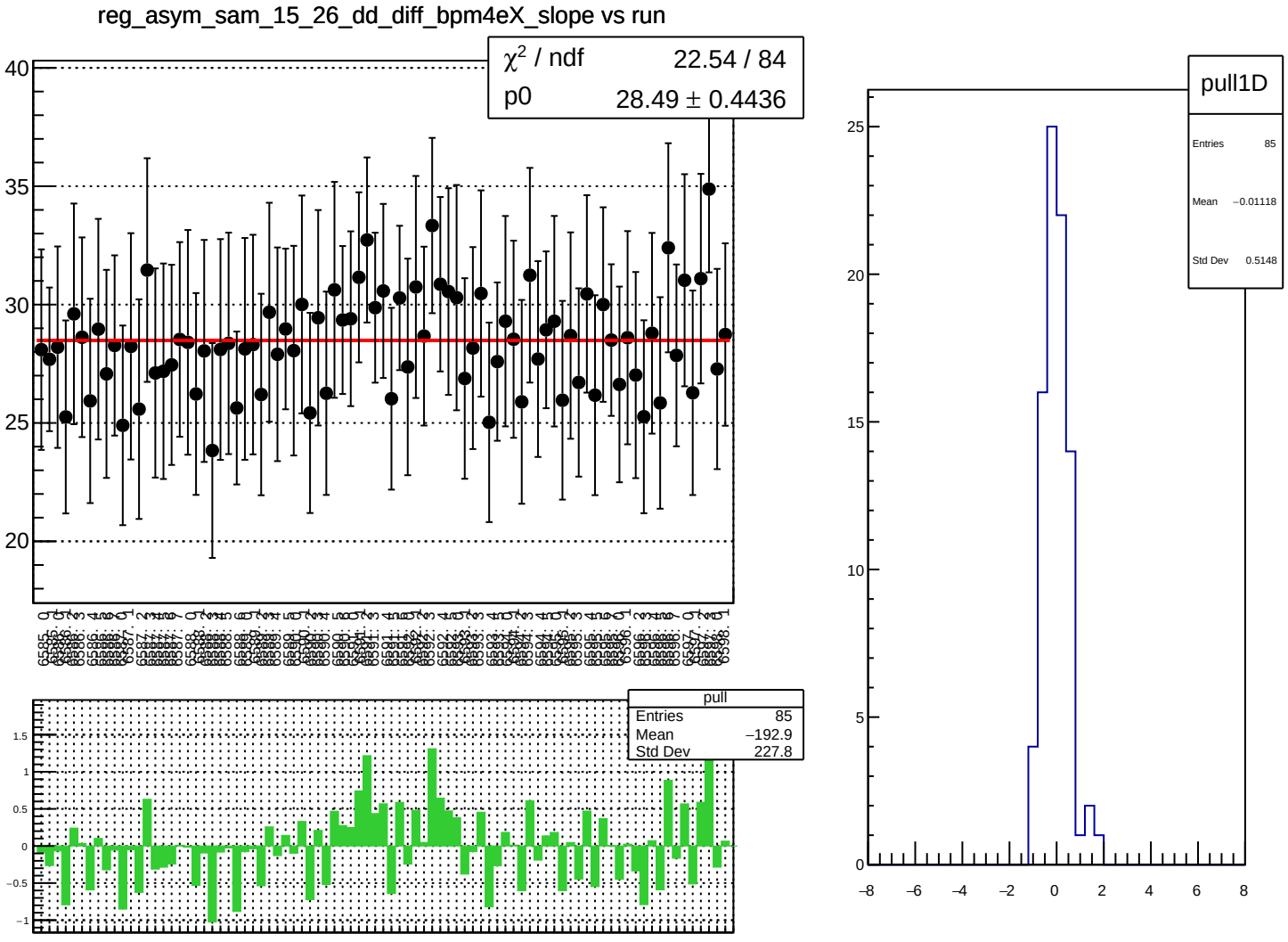

pull1D
Entries 85
Mean 0.02397
Std Dev 0.5266

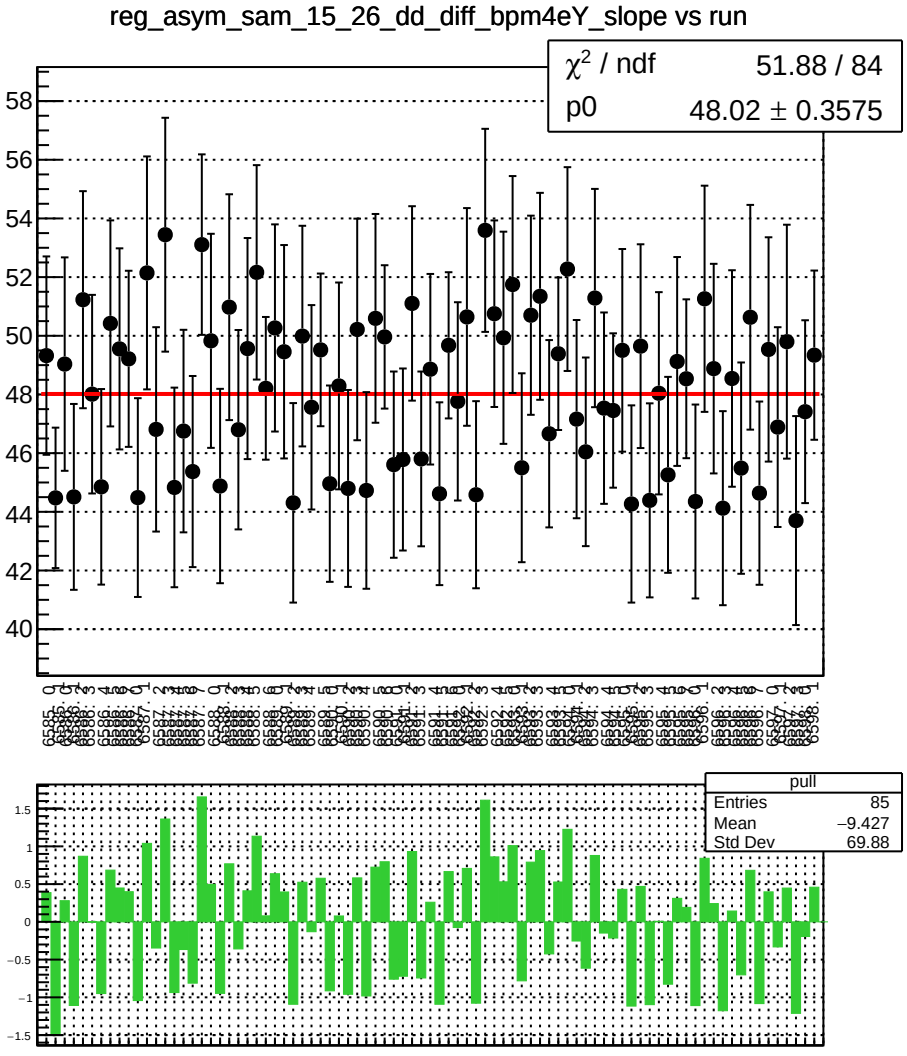

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 12.58 / 84
p0 3.909 ± 0.4171
pull
Entries 85
Mean −180.1
Std Dev 220.3

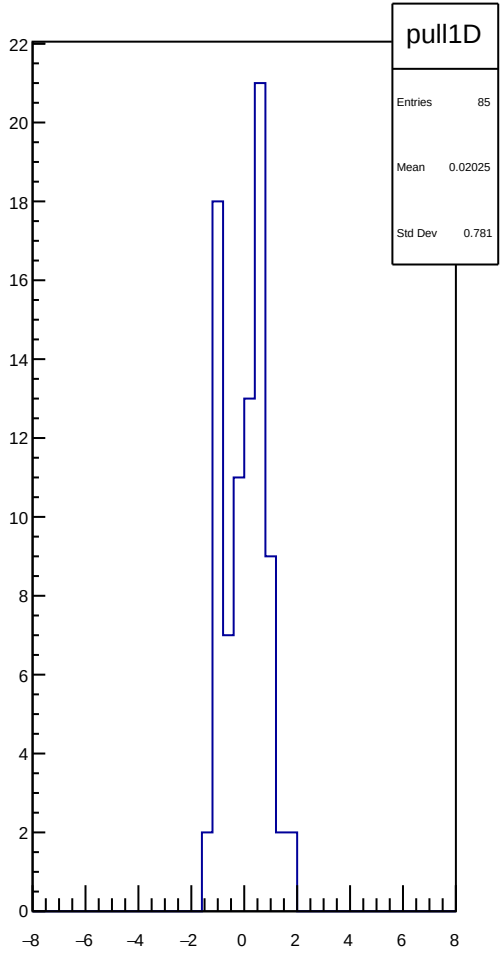

pull1D
Entries 85
Mean 0.007428
Std Dev 0.3847

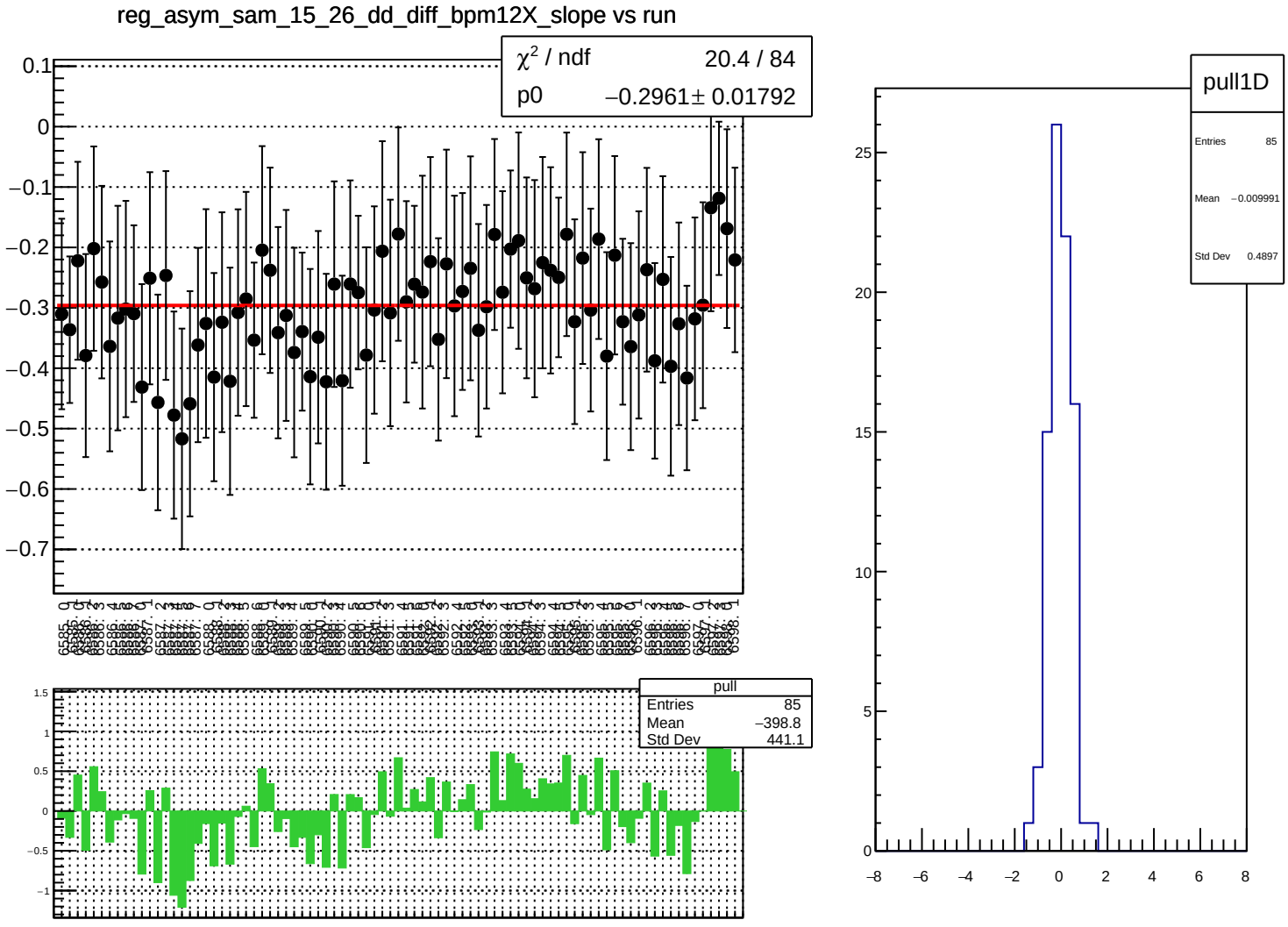

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.8 / 84
p0 −2.854 ± 0.2966
pull
Entries 85
Mean −43.73
Std Dev 91.68

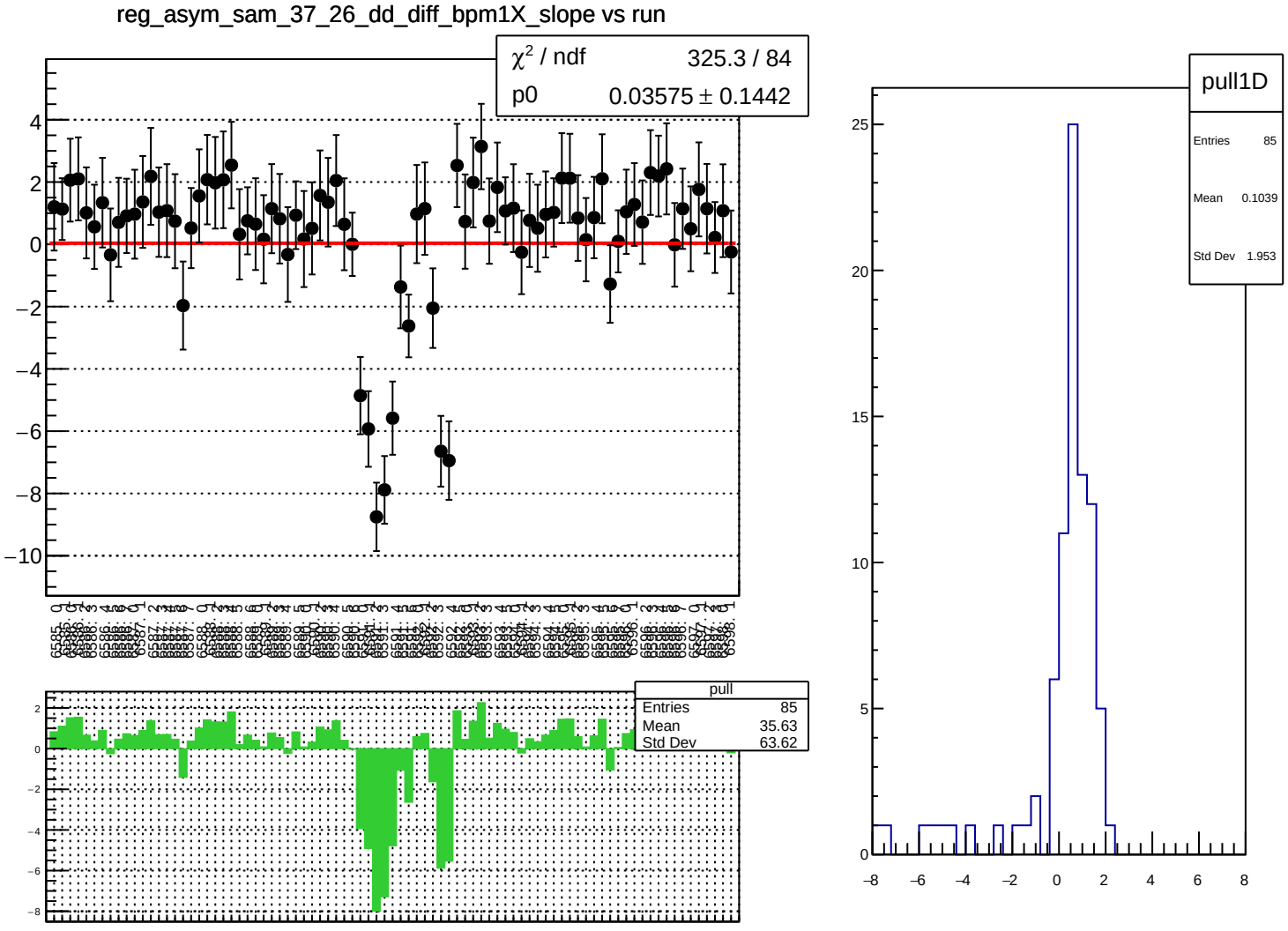

pull1D
Entries 85
Mean −0.02213
Std Dev 0.6208

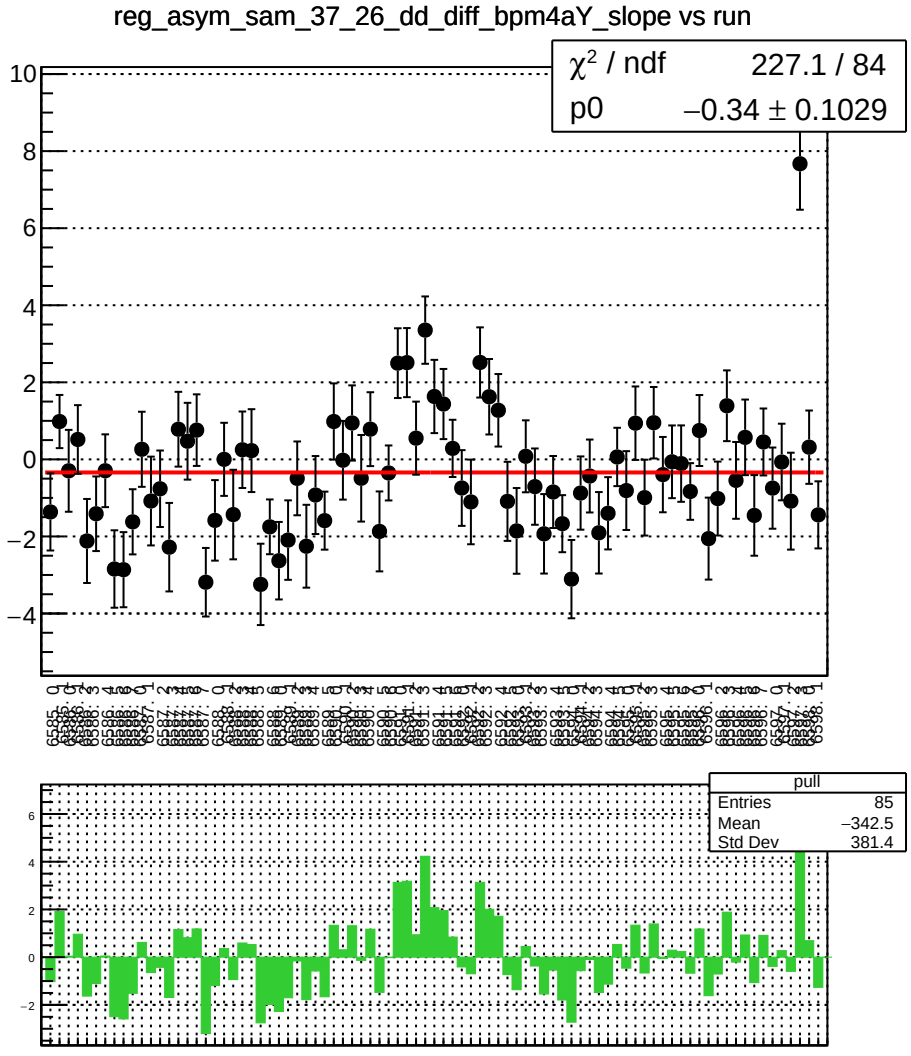

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.54 / 84
p0 28.49 ± 0.4436
pull
Entries 85
Mean −192.9
Std Dev 227.8
pull1D
Entries 85
Mean −0.01118
Std Dev 0.5148

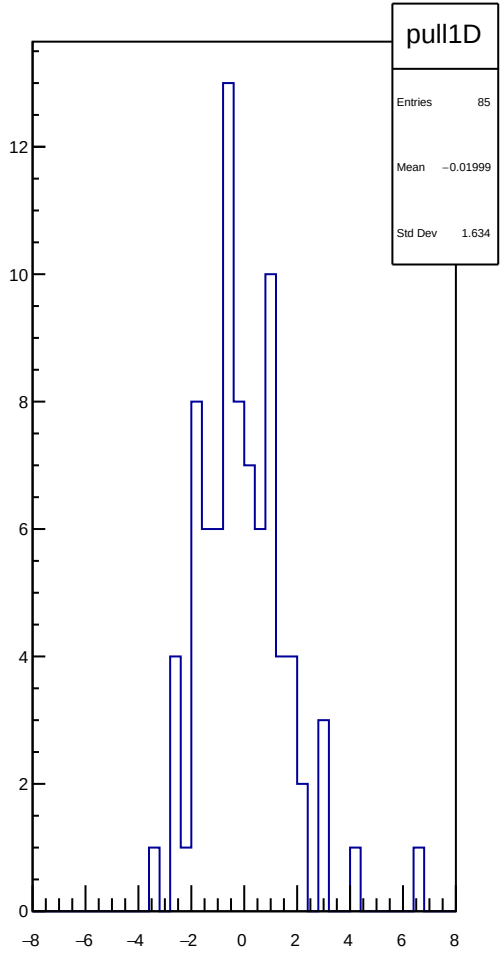

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.88 / 84
p0 48.02 ± 0.3575
pull
Entries 85
Mean −9.427
Std Dev 69.88

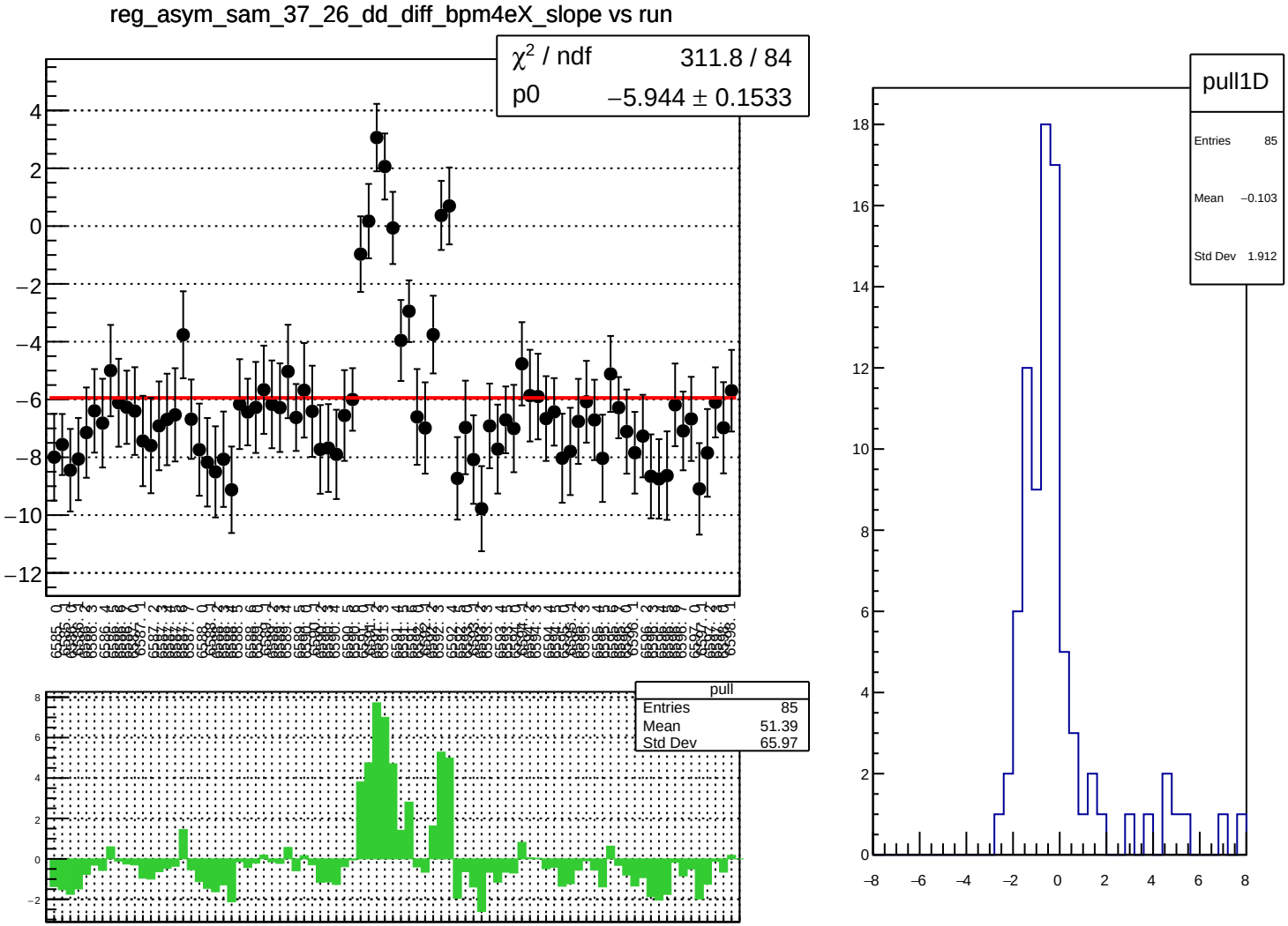

pull1D
Entries 85
Mean 0.02025
Std Dev 0.781

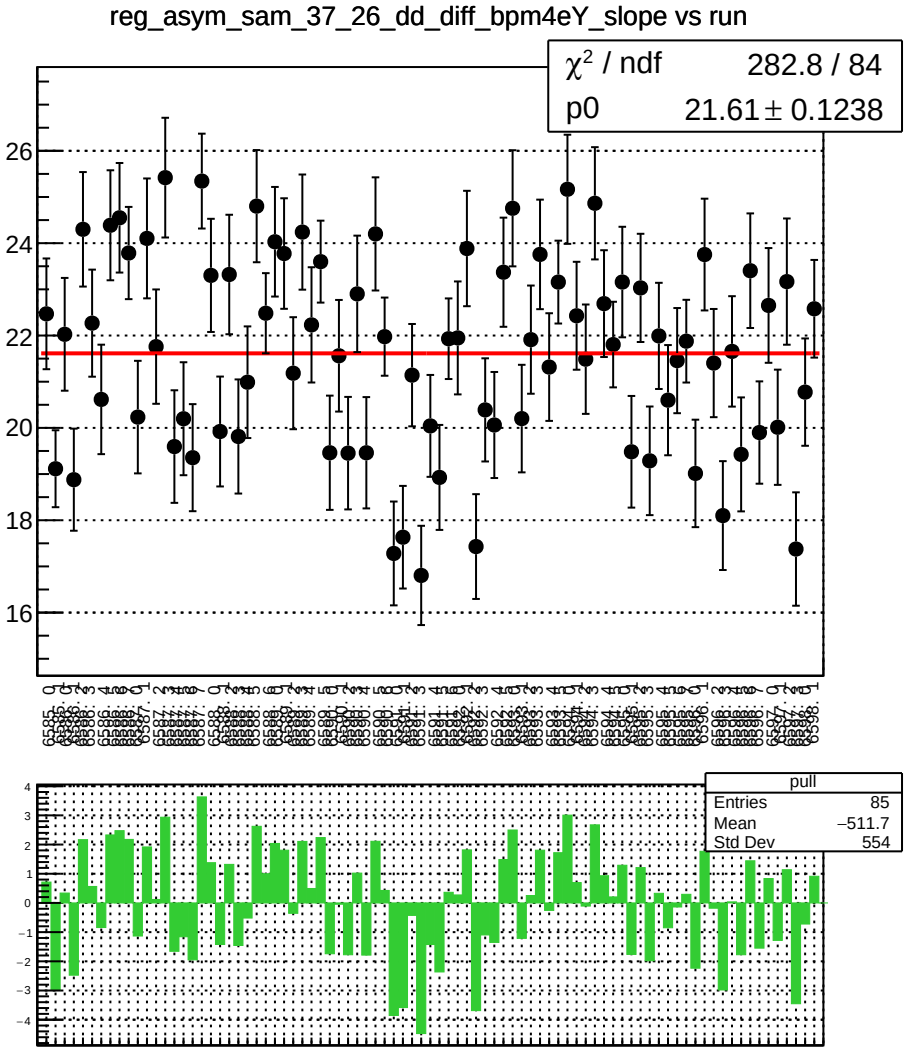

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 20.4 / 84
p0 −0.2961± 0.01792
pull
Entries 85
Mean −398.8
Std Dev 441.1
pull1D
Entries 85
Mean −0.009991
Std Dev 0.4897

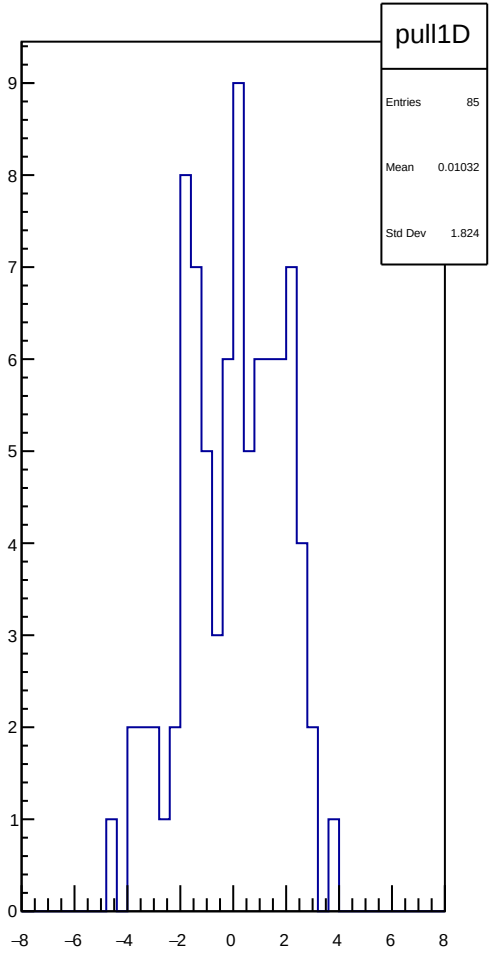

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 325.3 / 84
p0 0.03575 ± 0.1442
pull
Entries 85
Mean 35.63
Std Dev 63.62
pull1D
Entries 85
Mean 0.1039
Std Dev 1.953

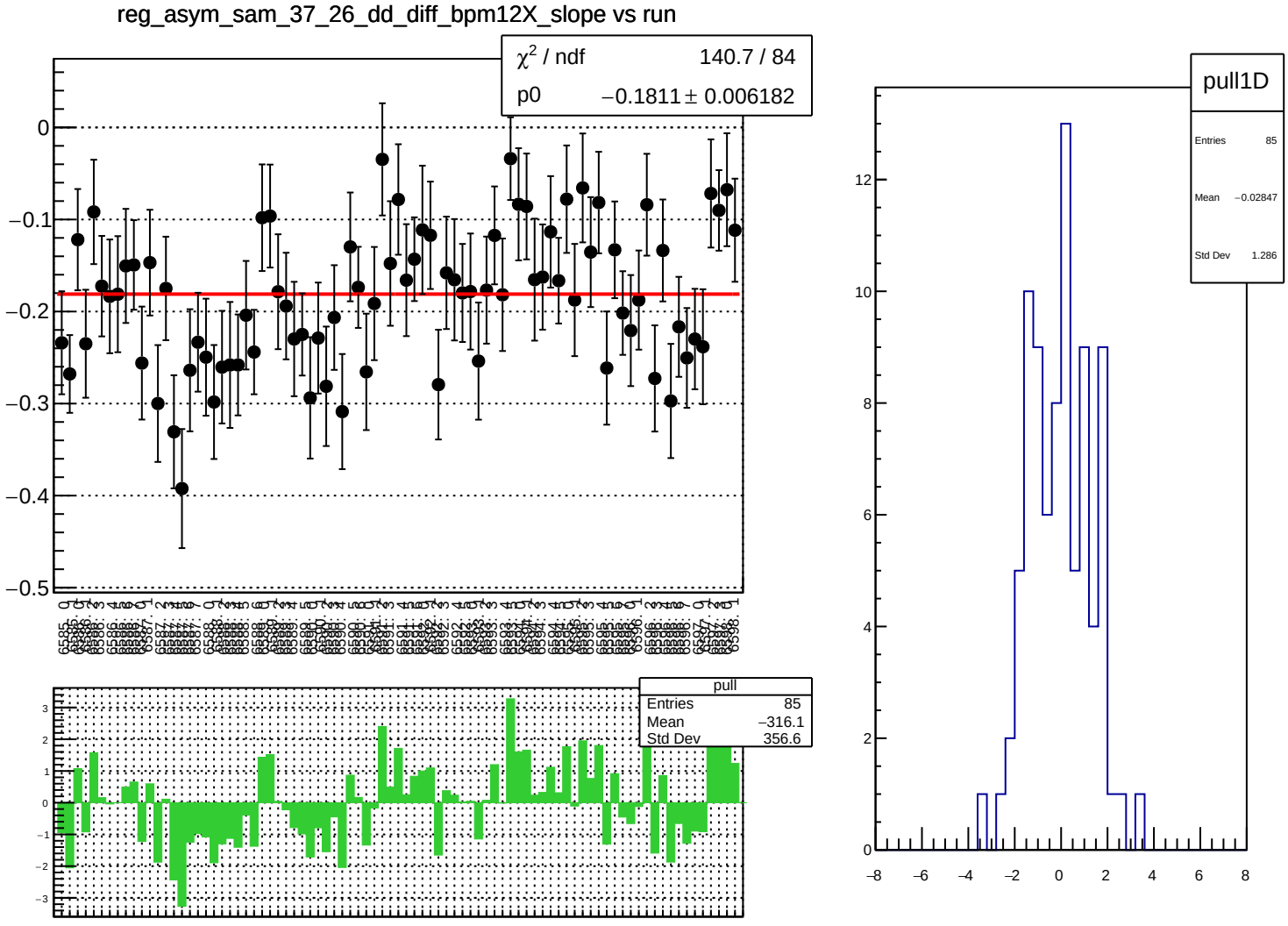

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 227.1 / 84
p0 −0.34 ± 0.1029
pull
Entries 85
Mean −342.5
Std Dev 381.4

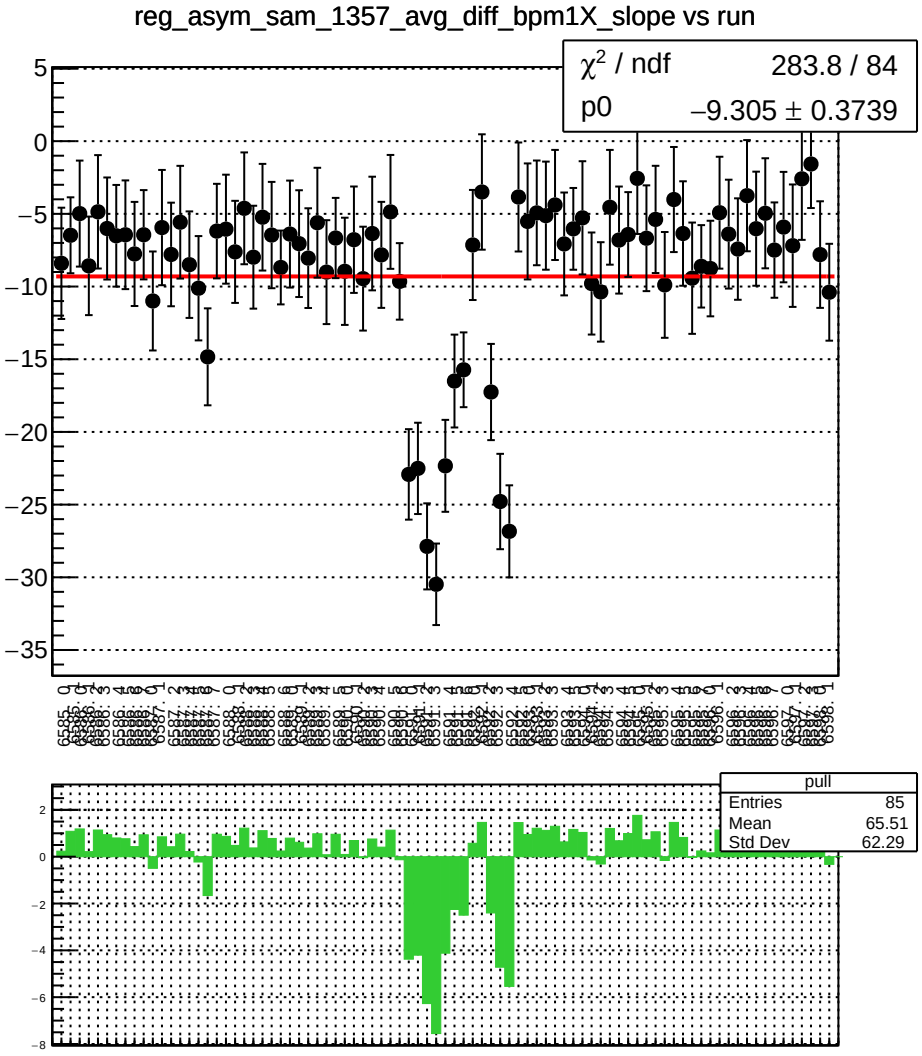

pull1D
Entries 85
Mean −0.01999
Std Dev 1.634

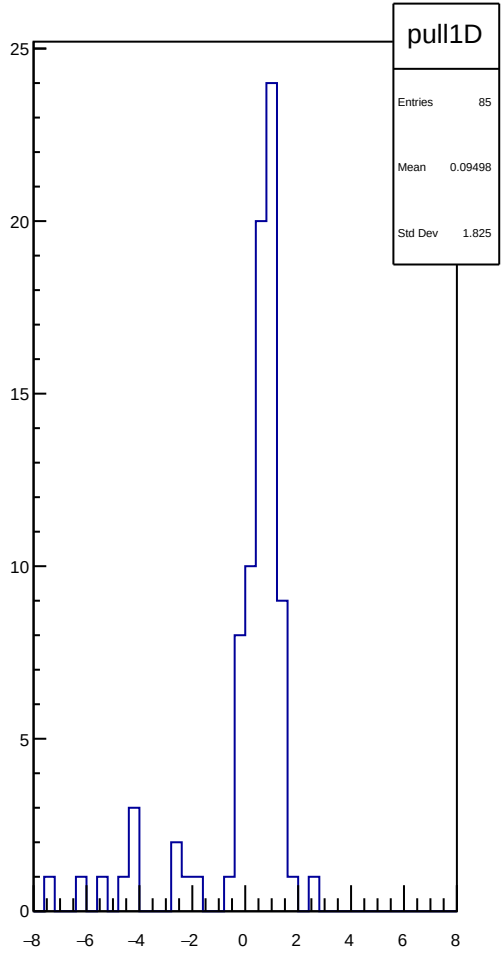

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 311.8 / 84
p0 −5.944 ± 0.1533
pull
Entries 85
Mean 51.39
Std Dev 65.97
pull1D
Entries 85
Mean −0.103
Std Dev 1.912


reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 282.8 / 84
p0 21.61 ± 0.1238
pull
Entries 85
Mean −511.7
Std Dev 554

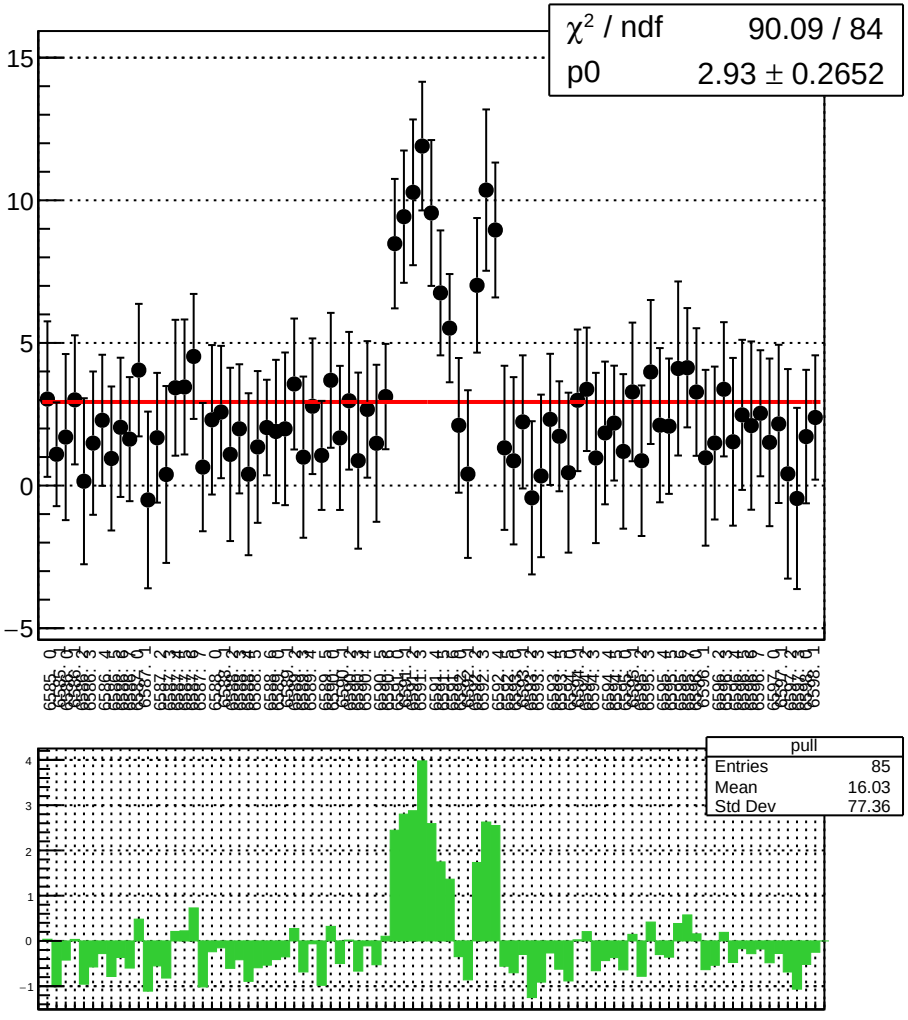

pull1D
Entries 85
Mean 0.01032
Std Dev 1.824

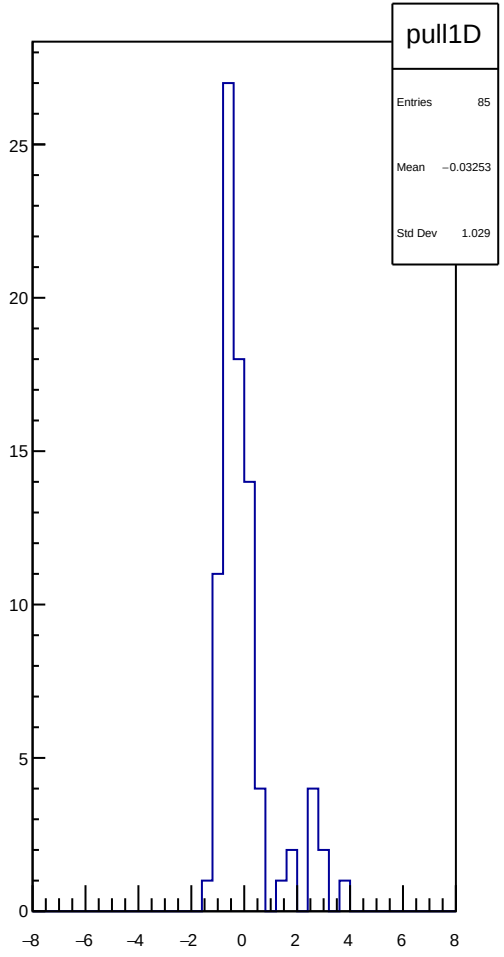

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ^2 / ndf 140.7 / 84
p0 −0.1811 ± 0.006182
pull
Entries 85
Mean −316.1
Std Dev 356.6
pull1D
Entries 85
Mean −0.02847
Std Dev 1.286

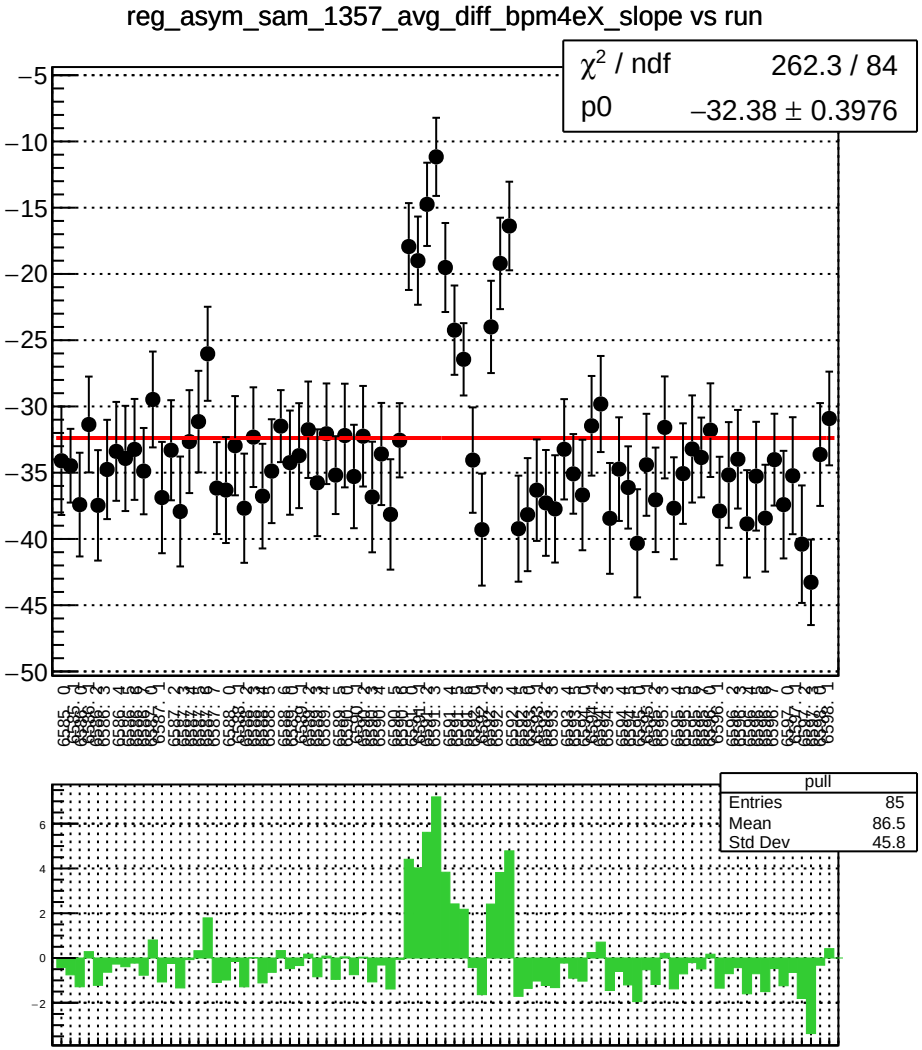

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ^2 / ndf 283.8 / 84
p0 −9.305 ± 0.3739
pull
Entries 85
Mean 65.51
Std Dev 62.29

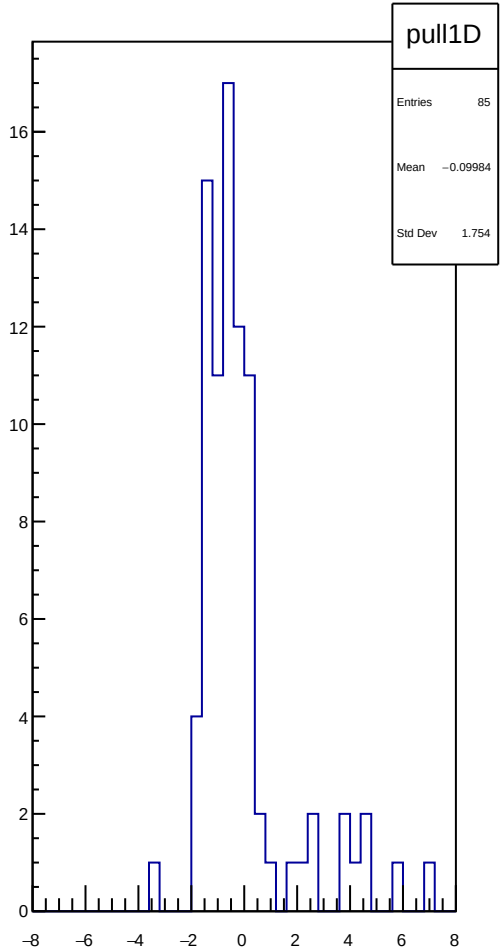

pull1D
Entries 85
Mean 0.09498
Std Dev 1.825

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run

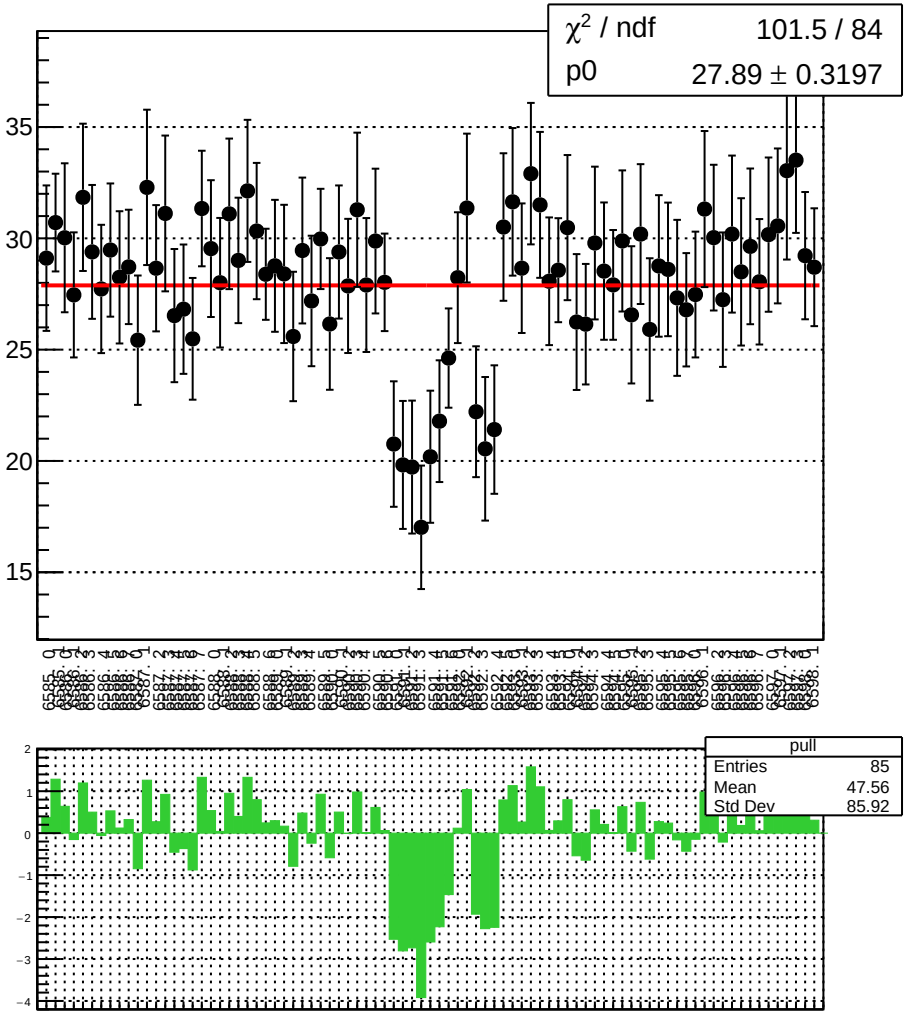


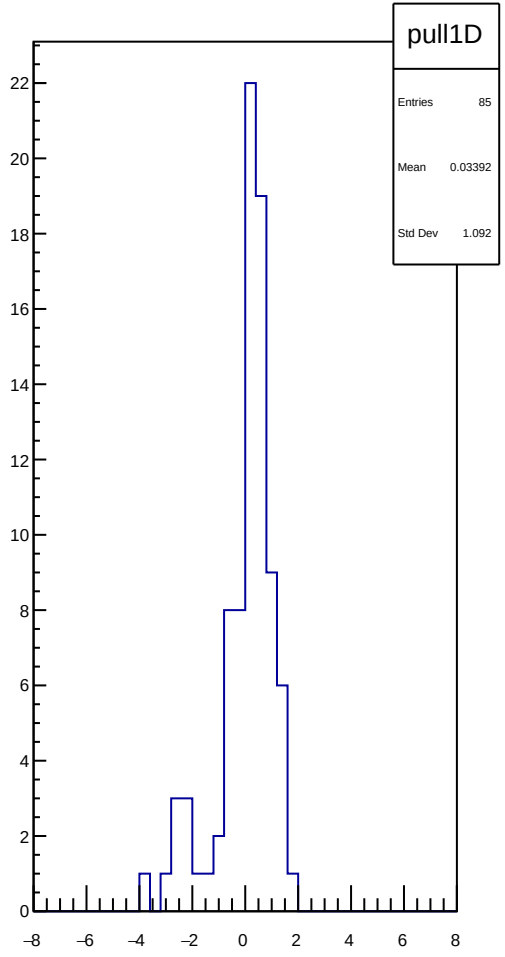


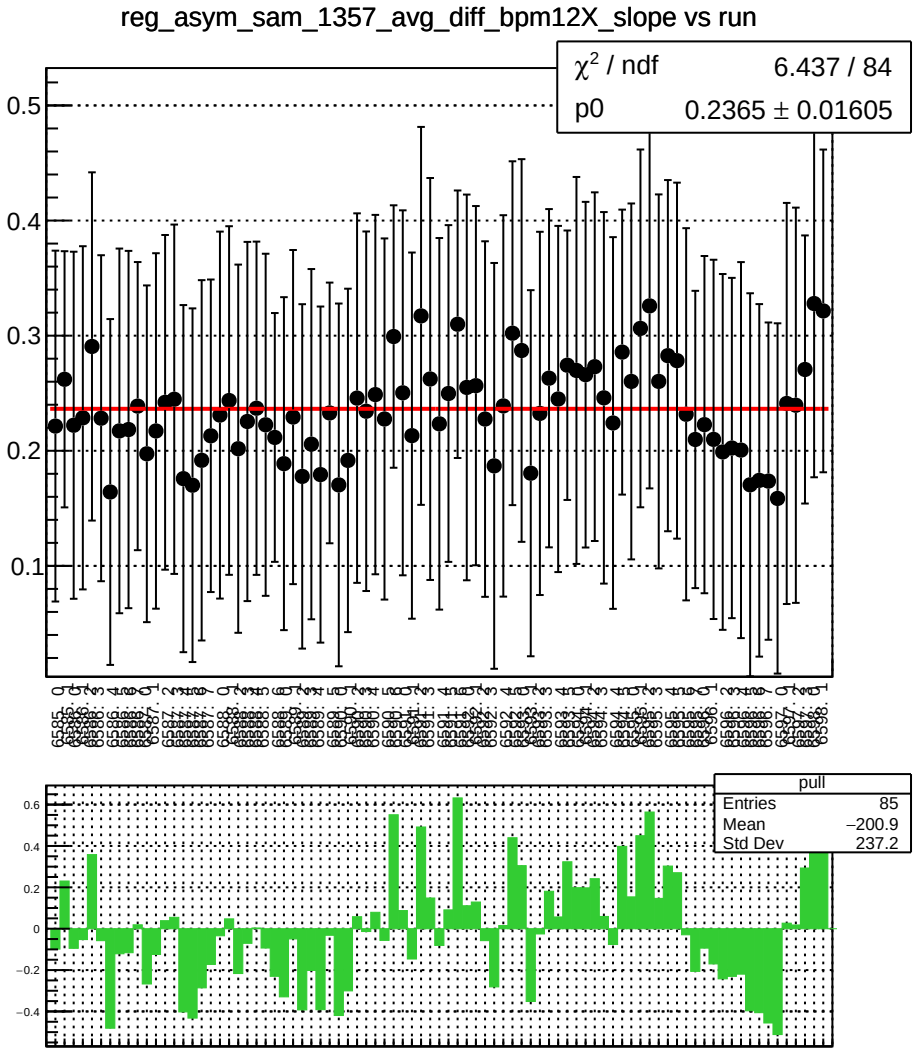

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 262.3 / 84
p0 −32.38 ± 0.3976
pull
Entries 85
Mean 86.5
Std Dev 45.8

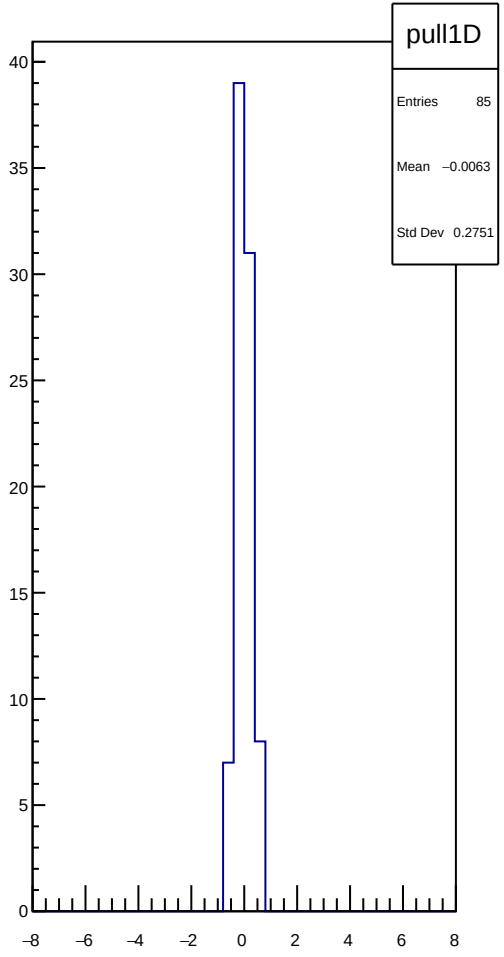

pull1D
Entries 85
Mean −0.09984
Std Dev 1.754

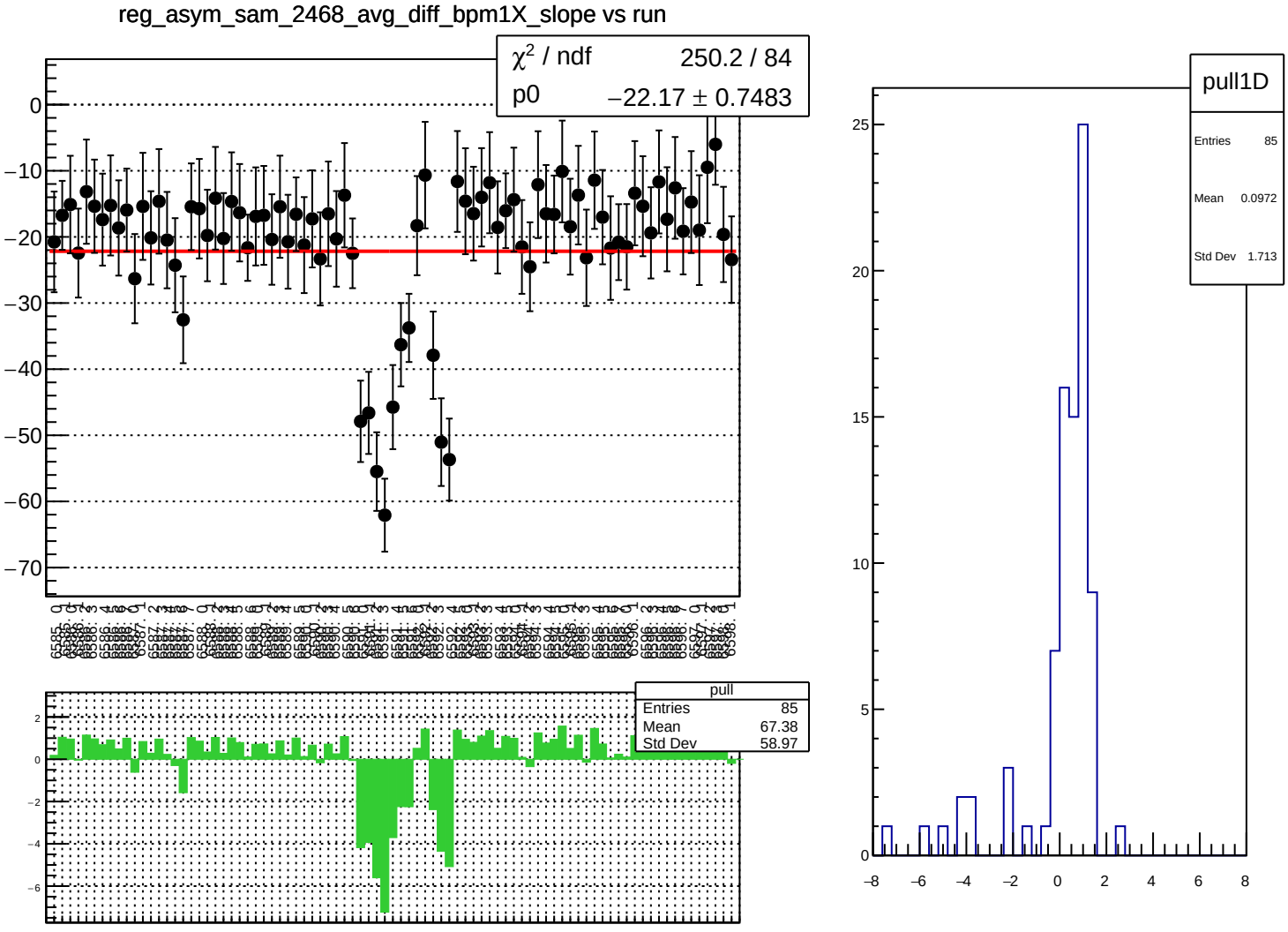
reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run

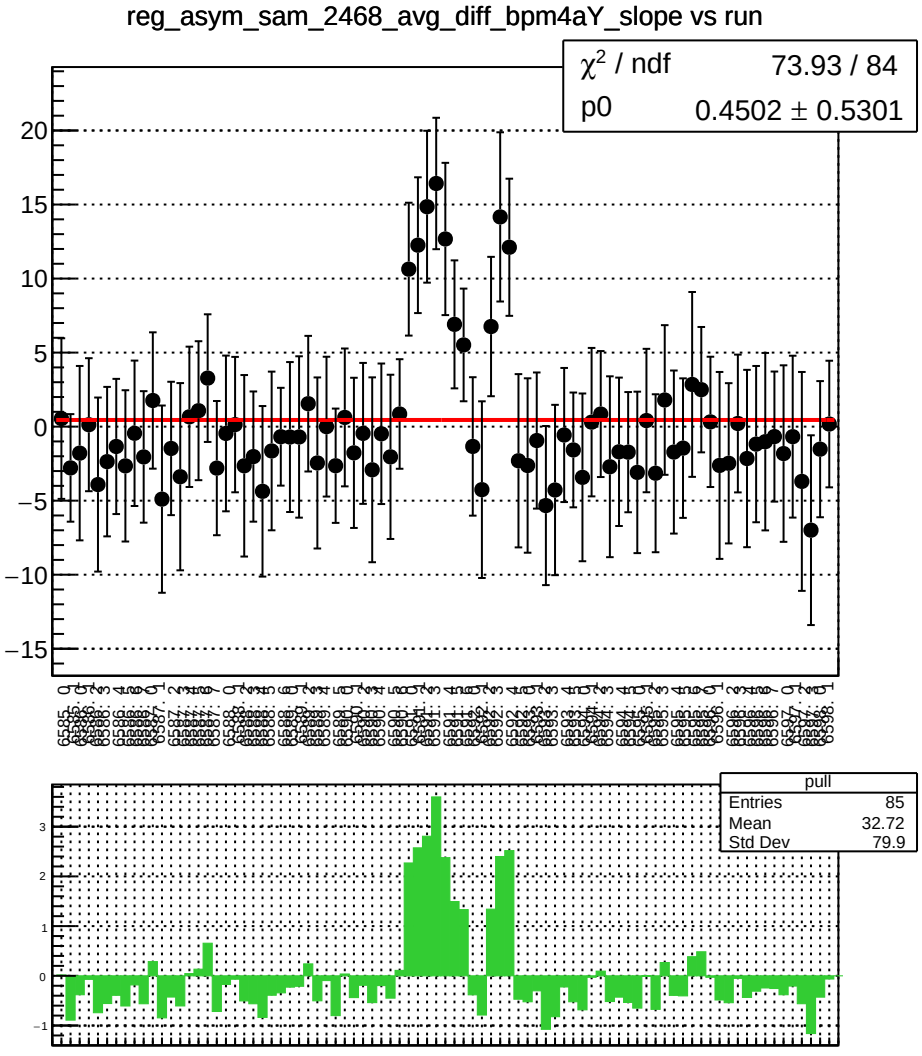


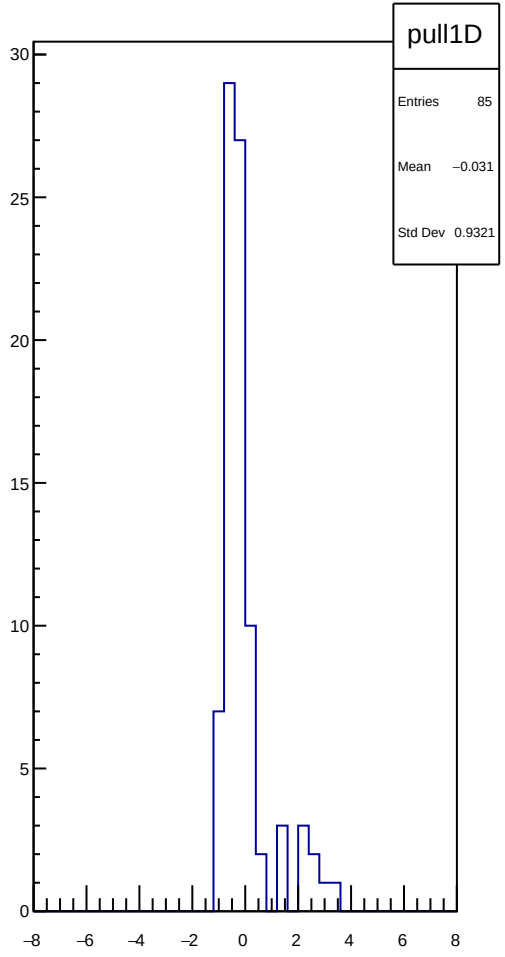


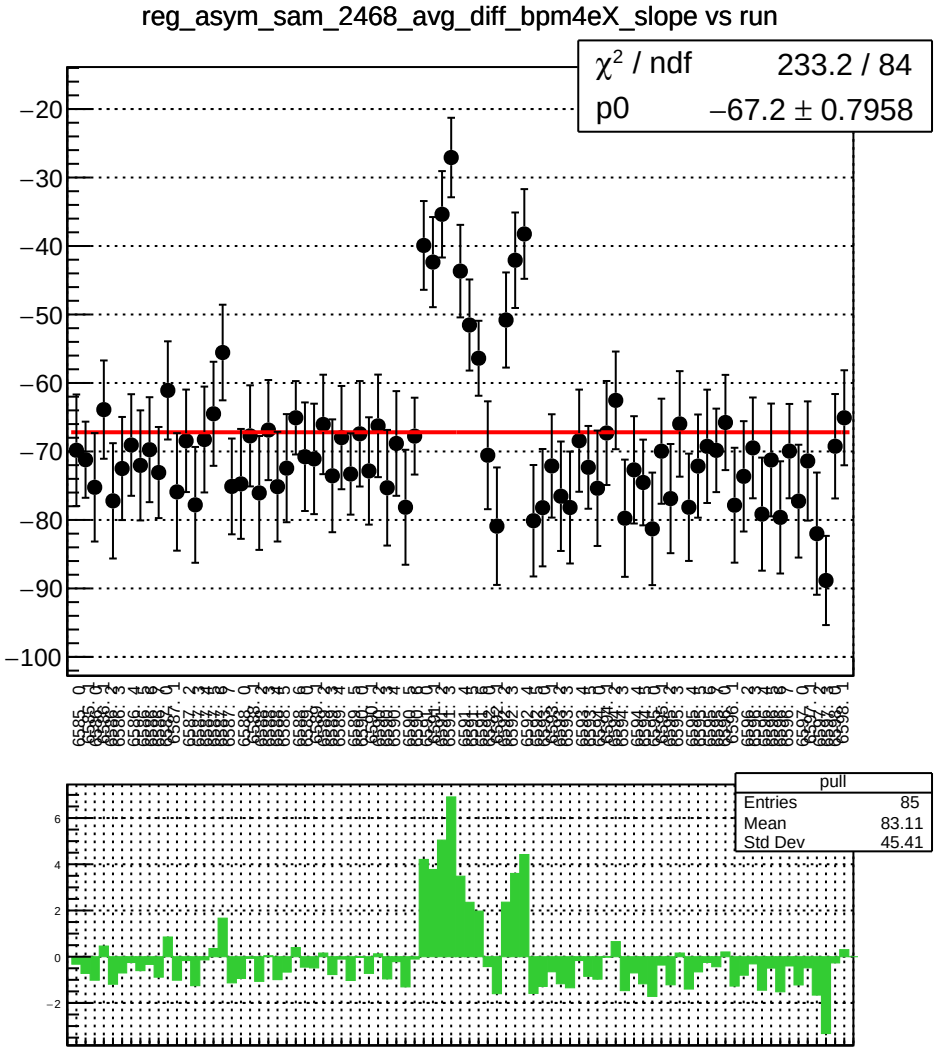

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 6.437 / 84
p0 0.2365 ± 0.01605
pull
Entries 85
Mean −200.9
Std Dev 237.2

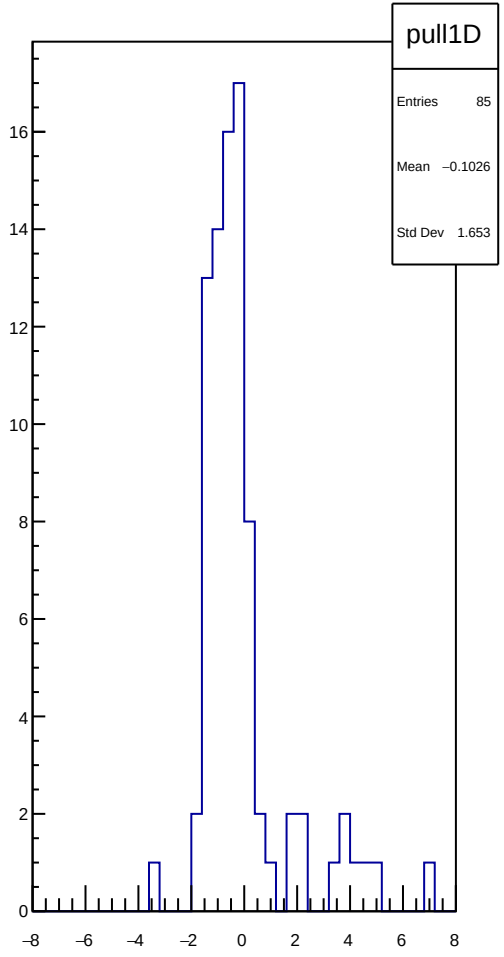

pull1D
Entries 85
Mean −0.0063
Std Dev 0.2751

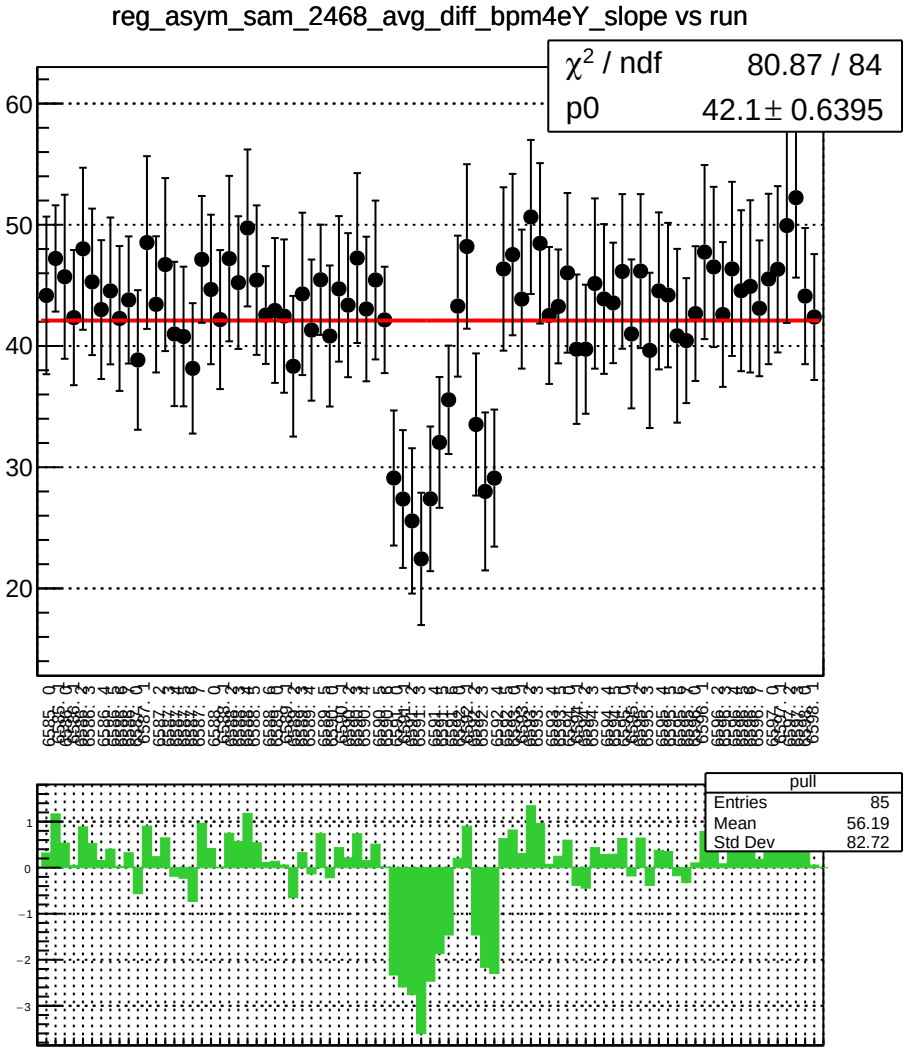

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ^2 / ndf 250.2 / 84
p0 −22.17 ± 0.7483
pull
Entries 85
Mean 67.38
Std Dev 58.97
pull1D
Entries 85
Mean 0.0972
Std Dev 1.713

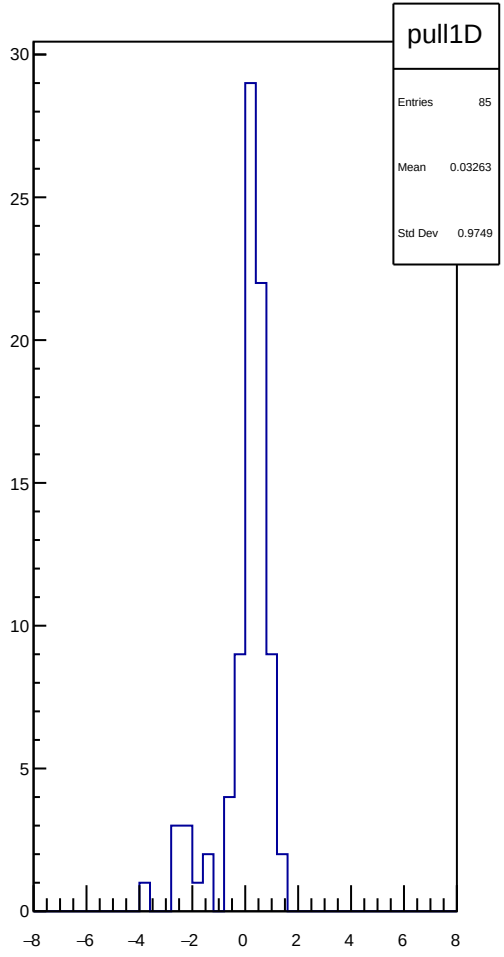

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.93 / 84
p0 0.4502 ± 0.5301
pull
Entries 85
Mean 32.72
Std Dev 79.9

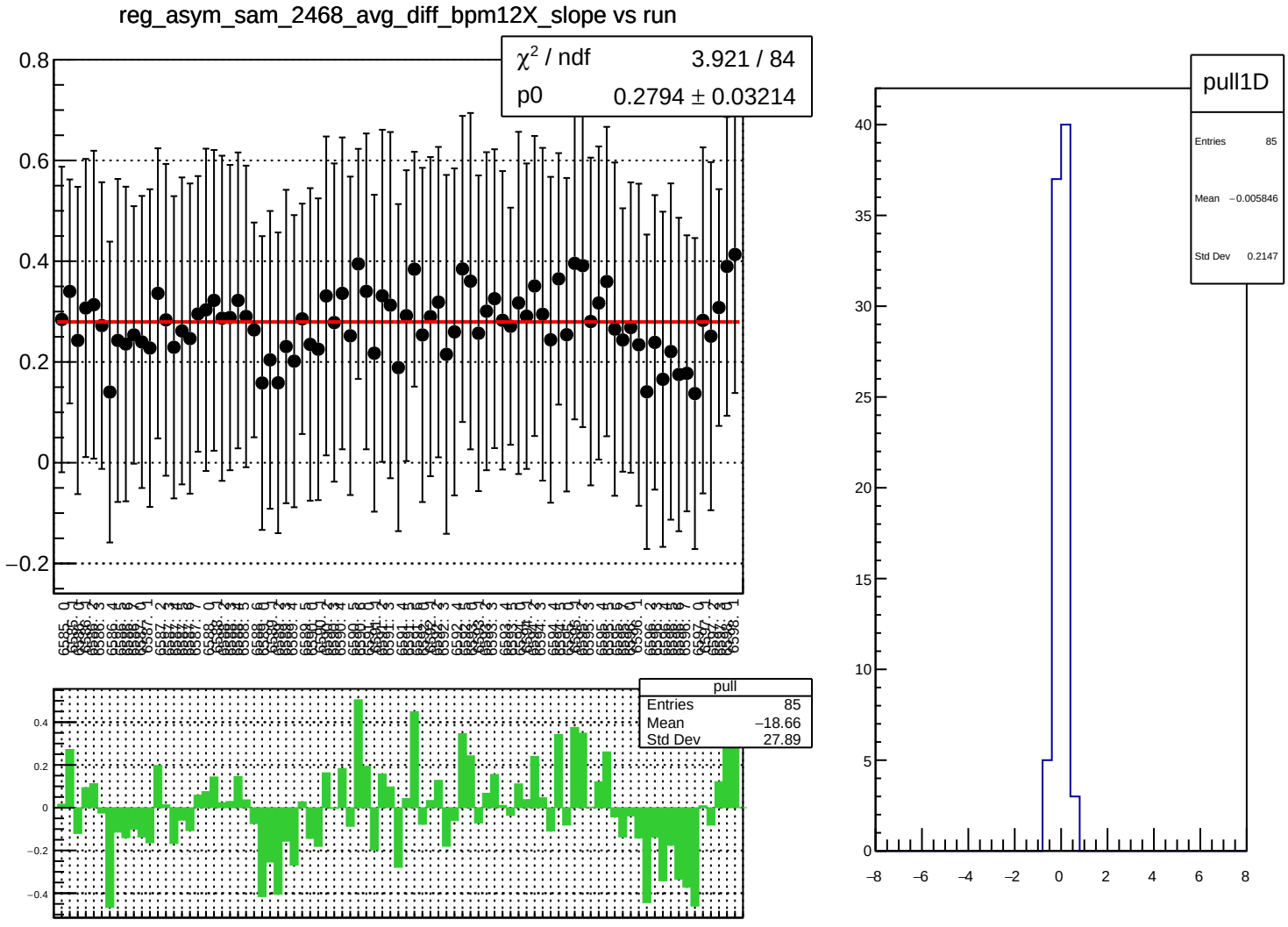

pull1D
Entries 85
Mean −0.031
Std Dev 0.9321


reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 233.2 / 84
p0 −67.2 ± 0.7958
pull
Entries 85
Mean 83.11
Std Dev 45.41

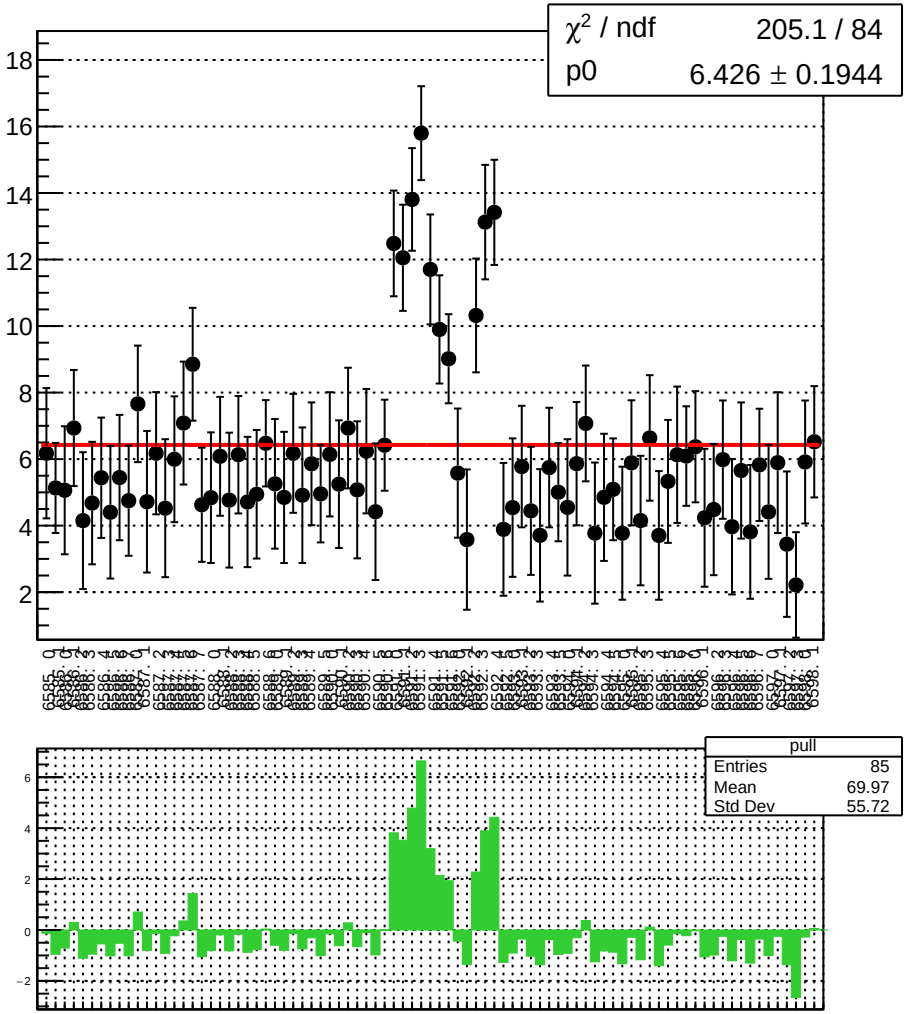

pull1D
Entries 85
Mean −0.1026
Std Dev 1.653

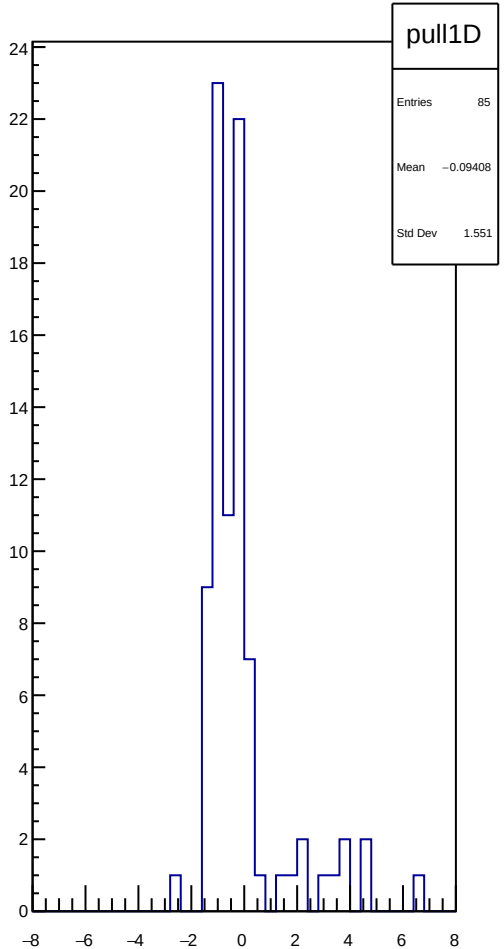

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.87 / 84
p0 42.1 ± 0.6395
pull
Entries 85
Mean 56.19
Std Dev 82.72


pull1D
Entries 85
Mean 0.03263
Std Dev 0.9749

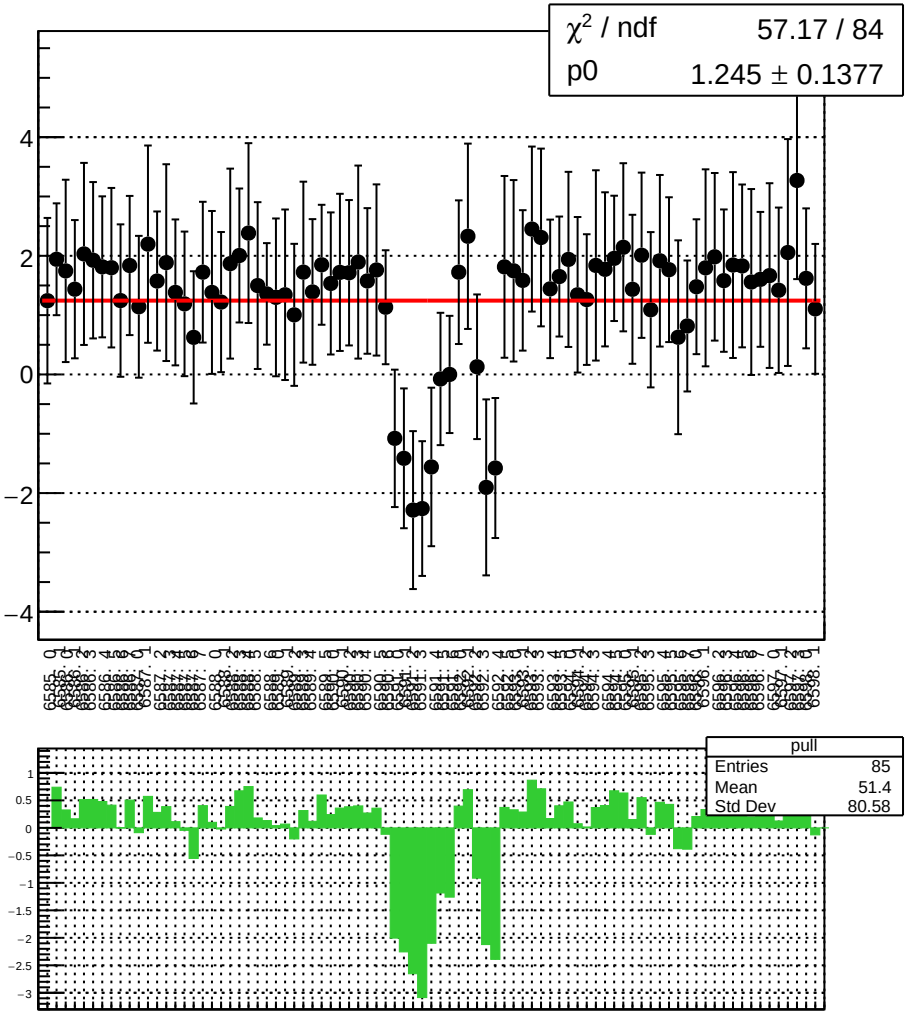

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.921 / 84
p0 0.2794 ± 0.03214
pull
Entries 85
Mean −18.66
Std Dev 27.89
pull1D
Entries 85
Mean −0.005846
Std Dev 0.2147

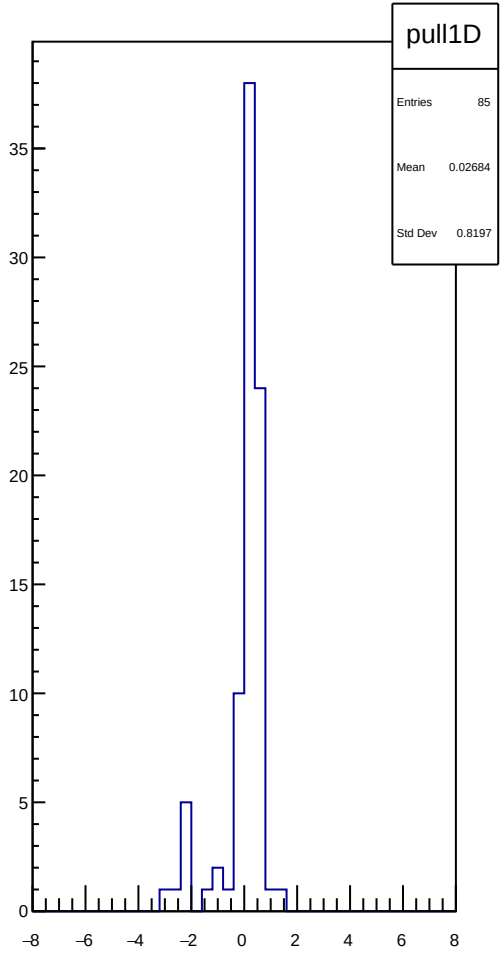
reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run



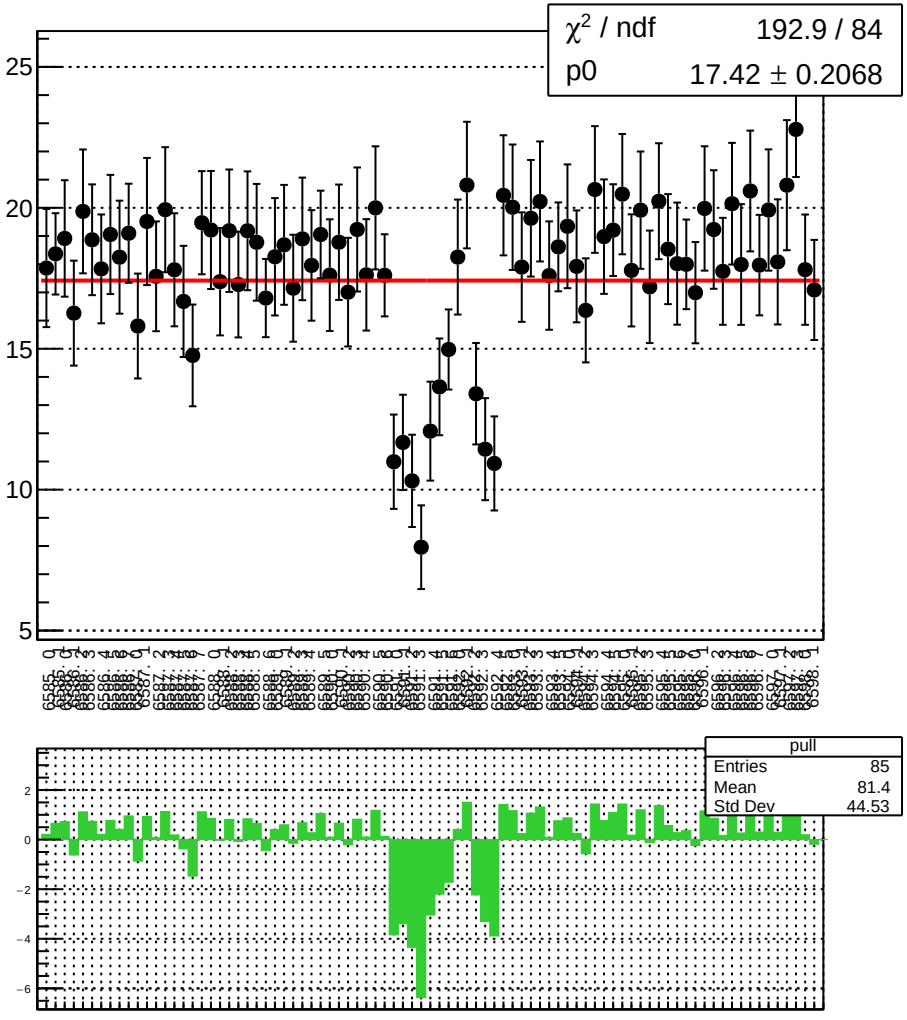


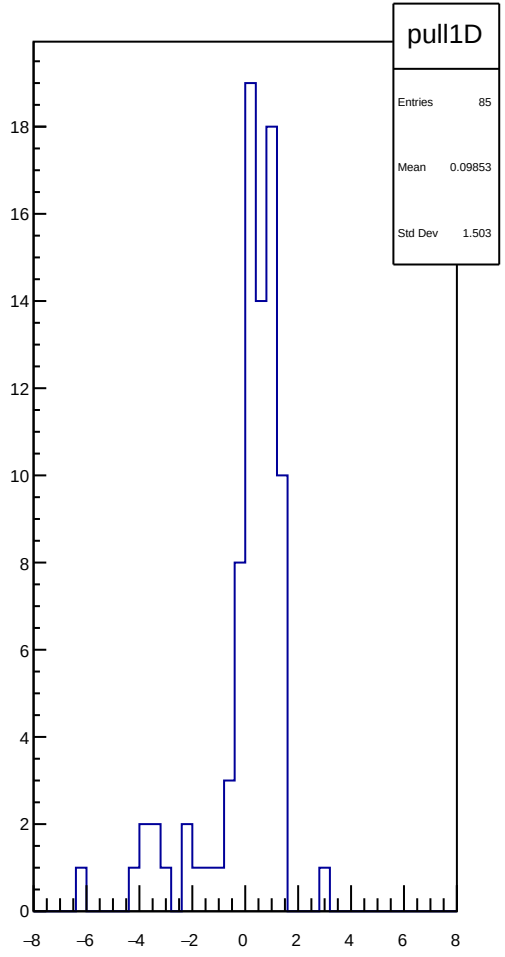
reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run



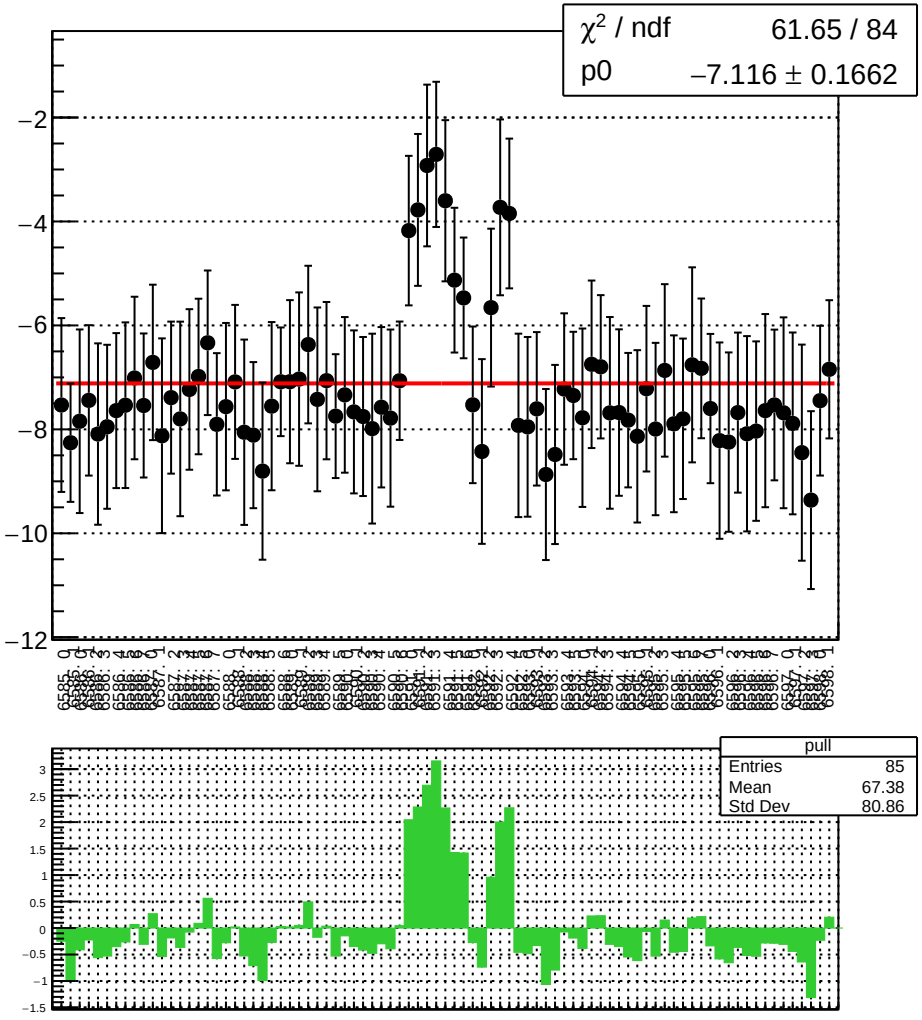


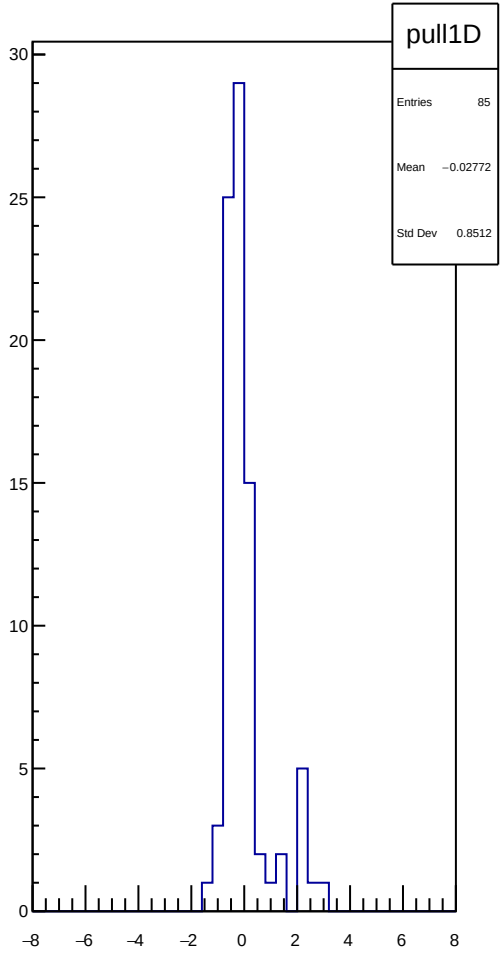
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run

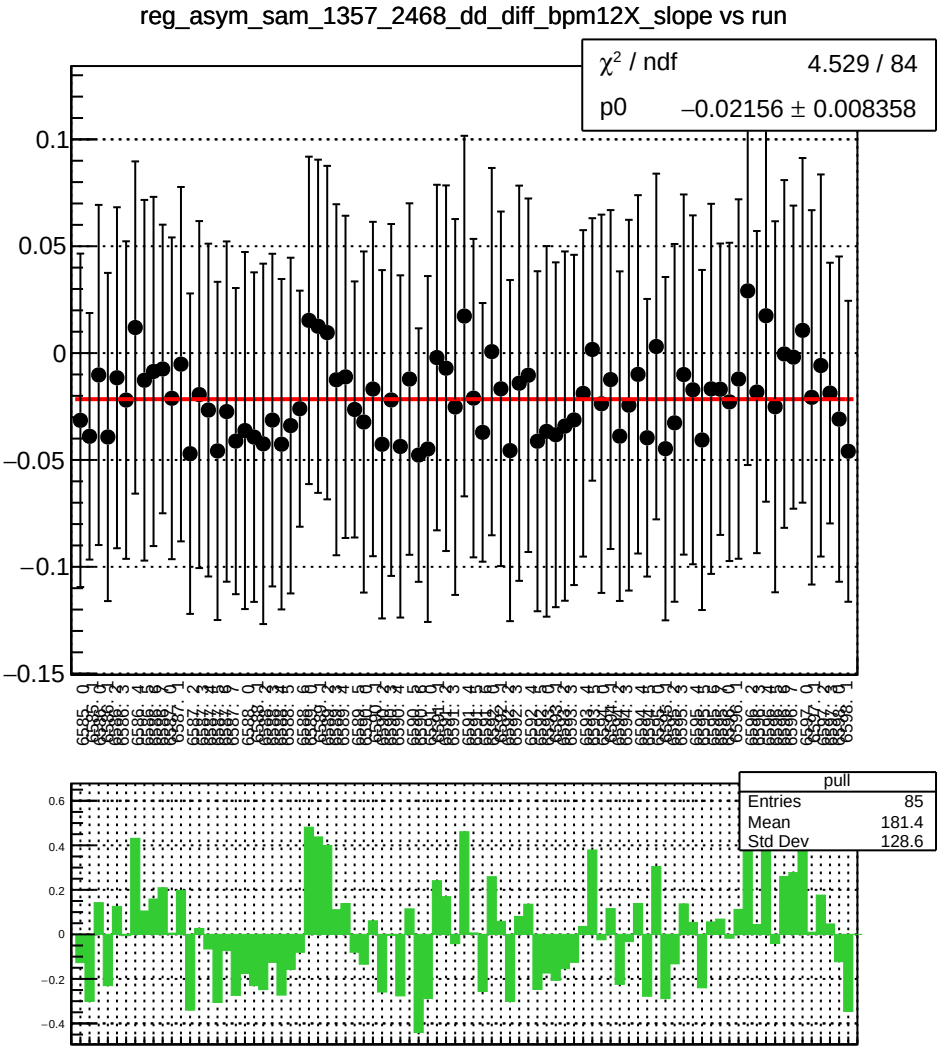


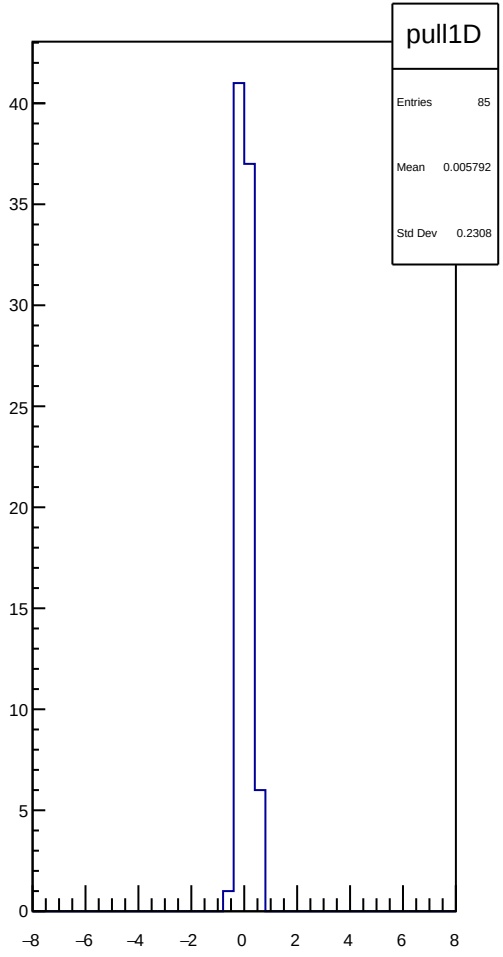


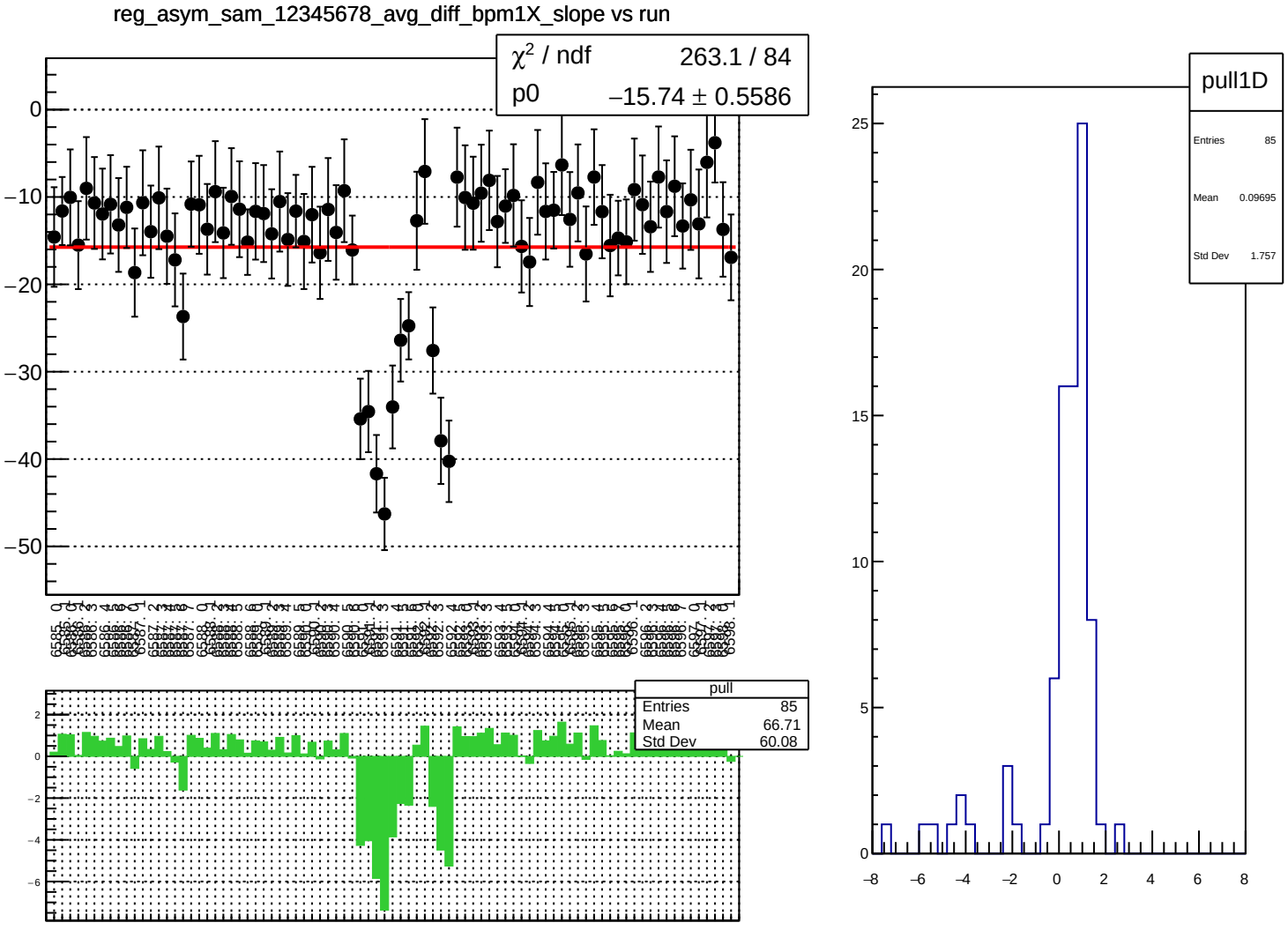
reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run

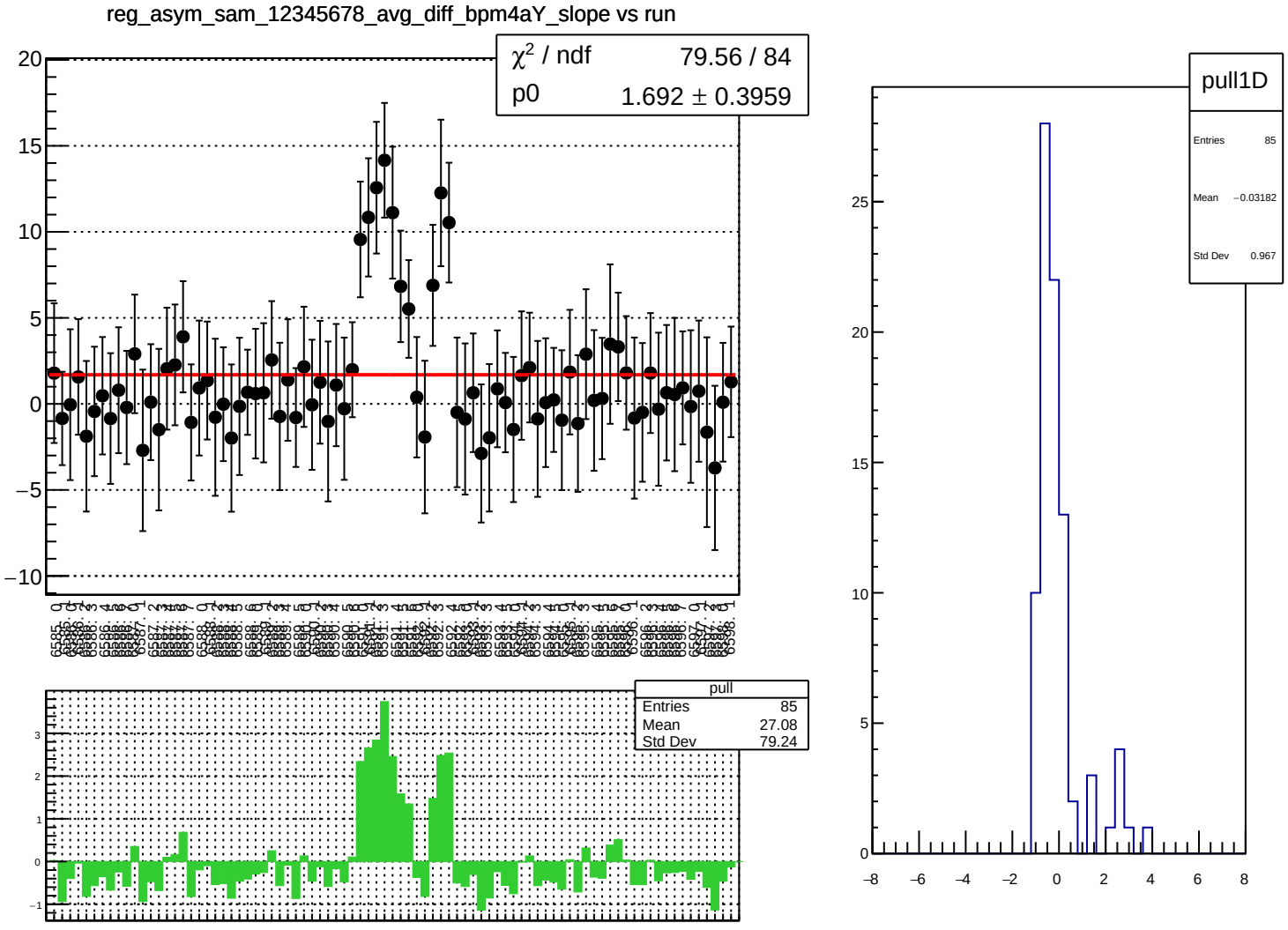




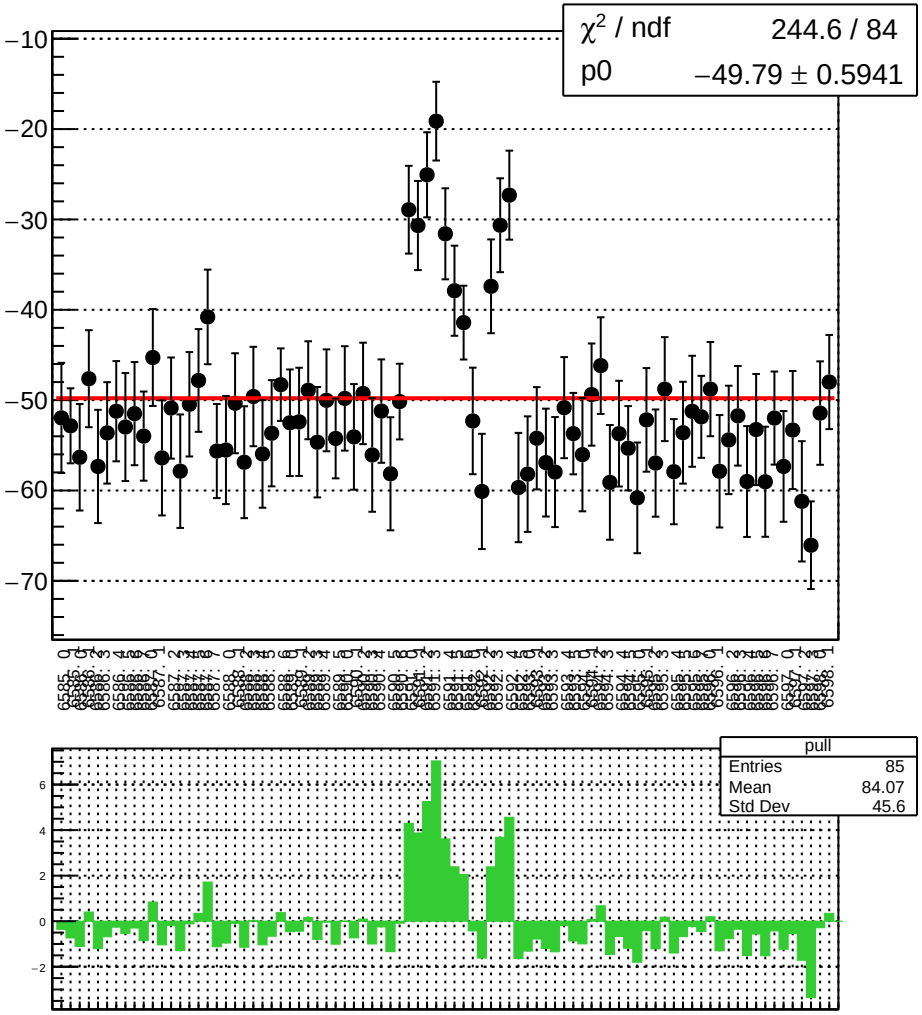

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.529 / 84
p0 −0.02156 ± 0.008358
pull
Entries 85
Mean 181.4
Std Dev 128.6

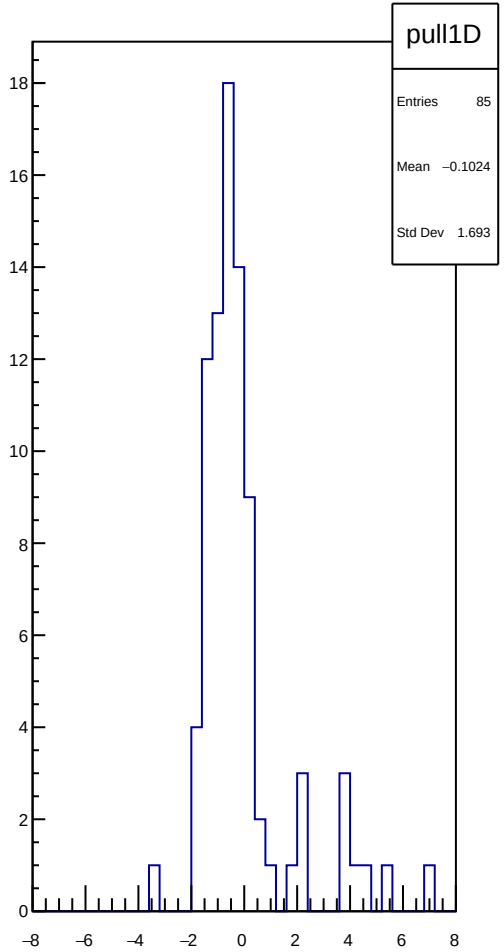

pull1D
Entries 85
Mean 0.005792
Std Dev 0.2308

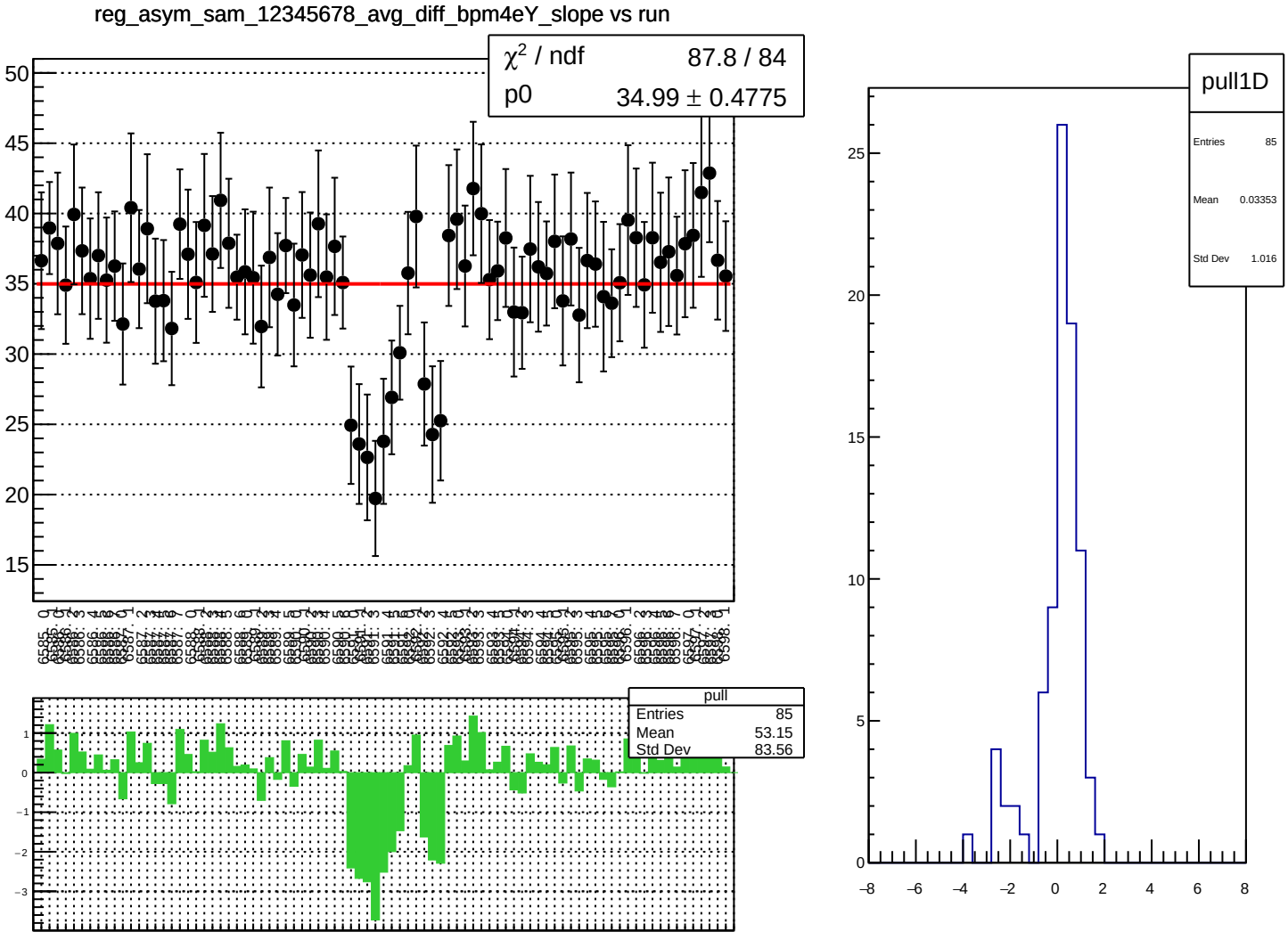

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 263.1 / 84
p0 −15.74 ± 0.5586
pull
Entries 85
Mean 66.71
Std Dev 60.08
pull1D
Entries 85
Mean 0.09695
Std Dev 1.757

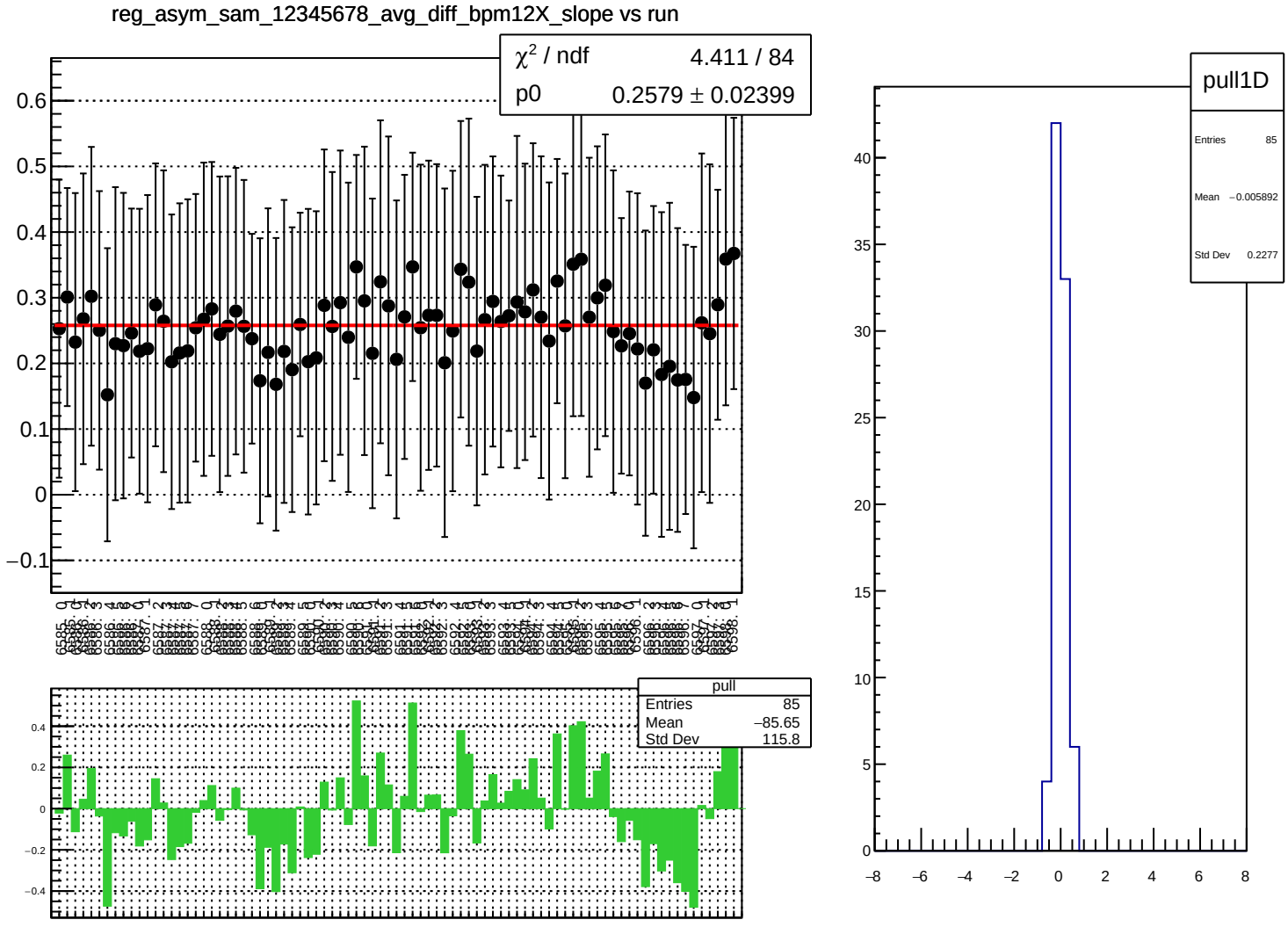

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.56 / 84
p0 1.692 ± 0.3959
pull
Entries 85
Mean 27.08
Std Dev 79.24
pull1D
Entries 85
Mean −0.03182
Std Dev 0.967

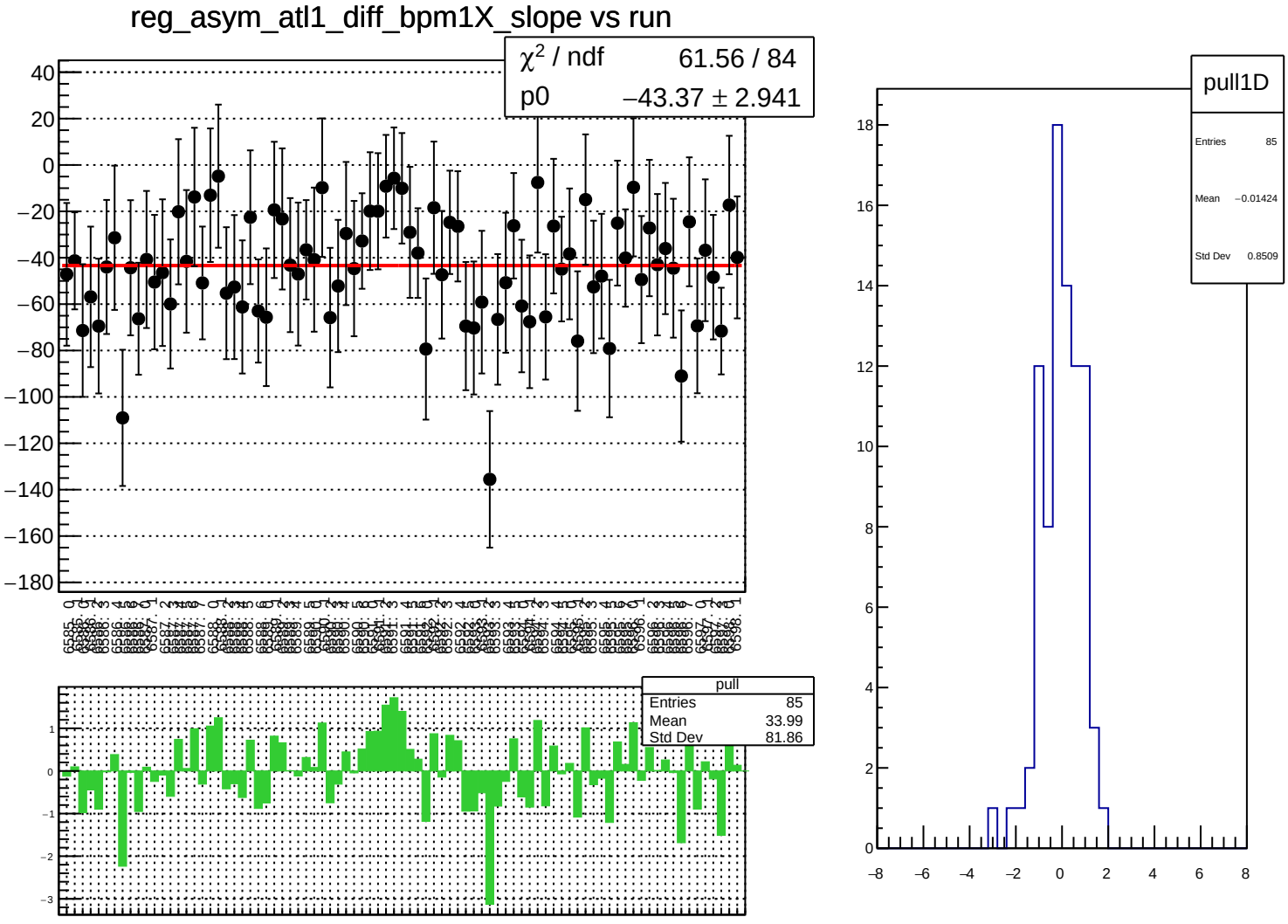
reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run

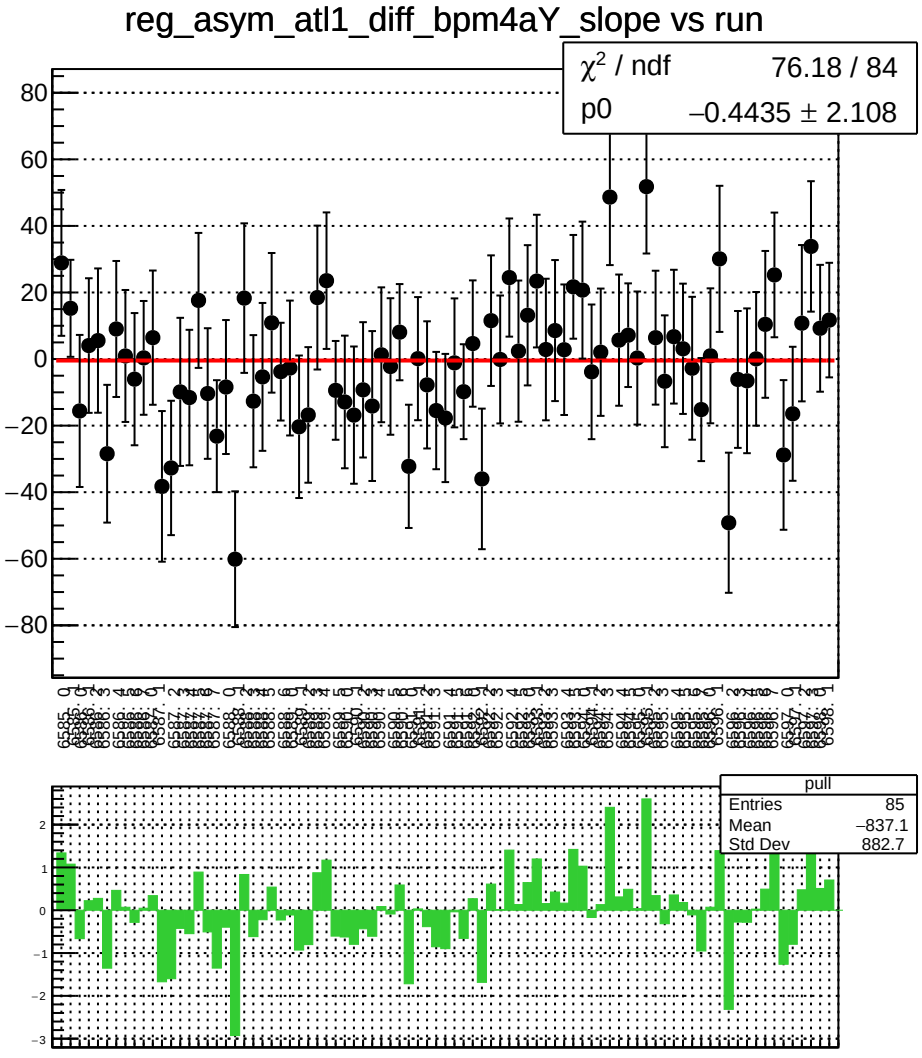


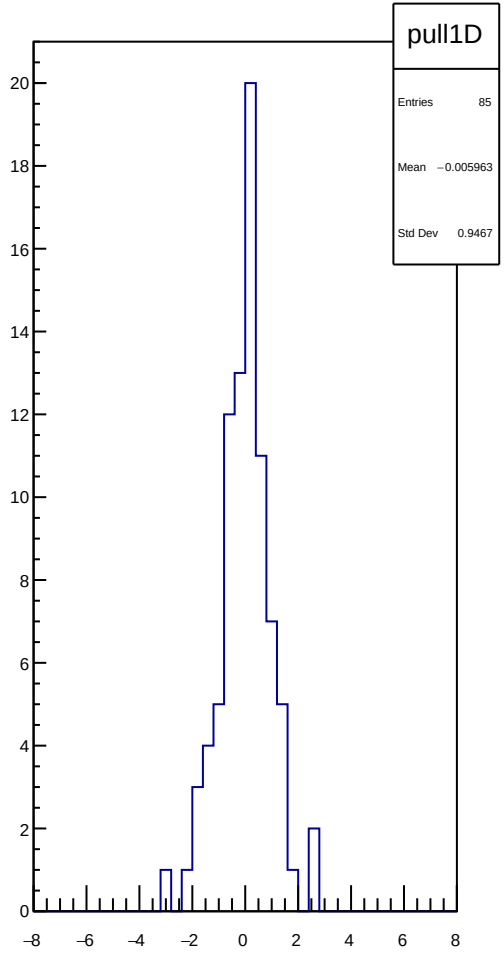


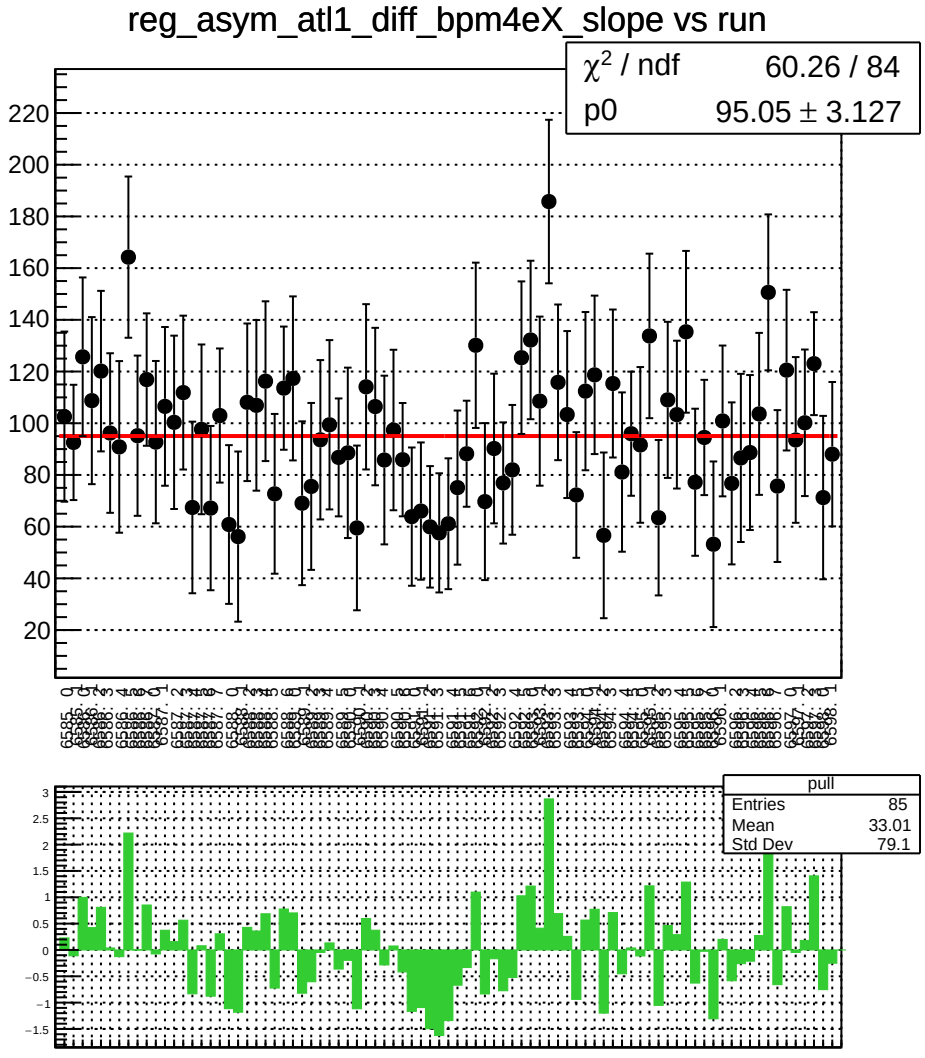

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.8 / 84
p0 34.99 ± 0.4775
pull
Entries 85
Mean 53.15
Std Dev 83.56
pull1D
Entries 85
Mean 0.03353
Std Dev 1.016

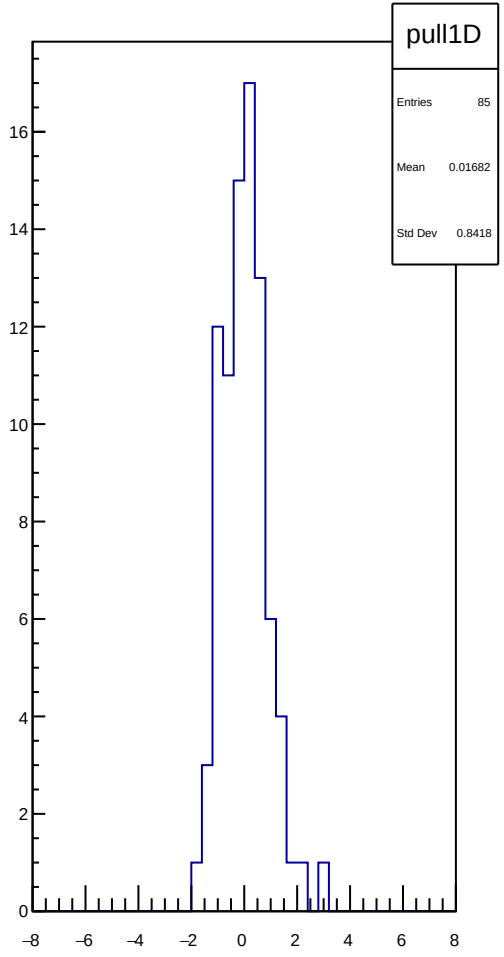

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 4.411 / 84
p0 0.2579 ± 0.02399
pull
Entries 85
Mean −85.65
Std Dev 115.8
pull1D
Entries 85
Mean −0.005892
Std Dev 0.2277

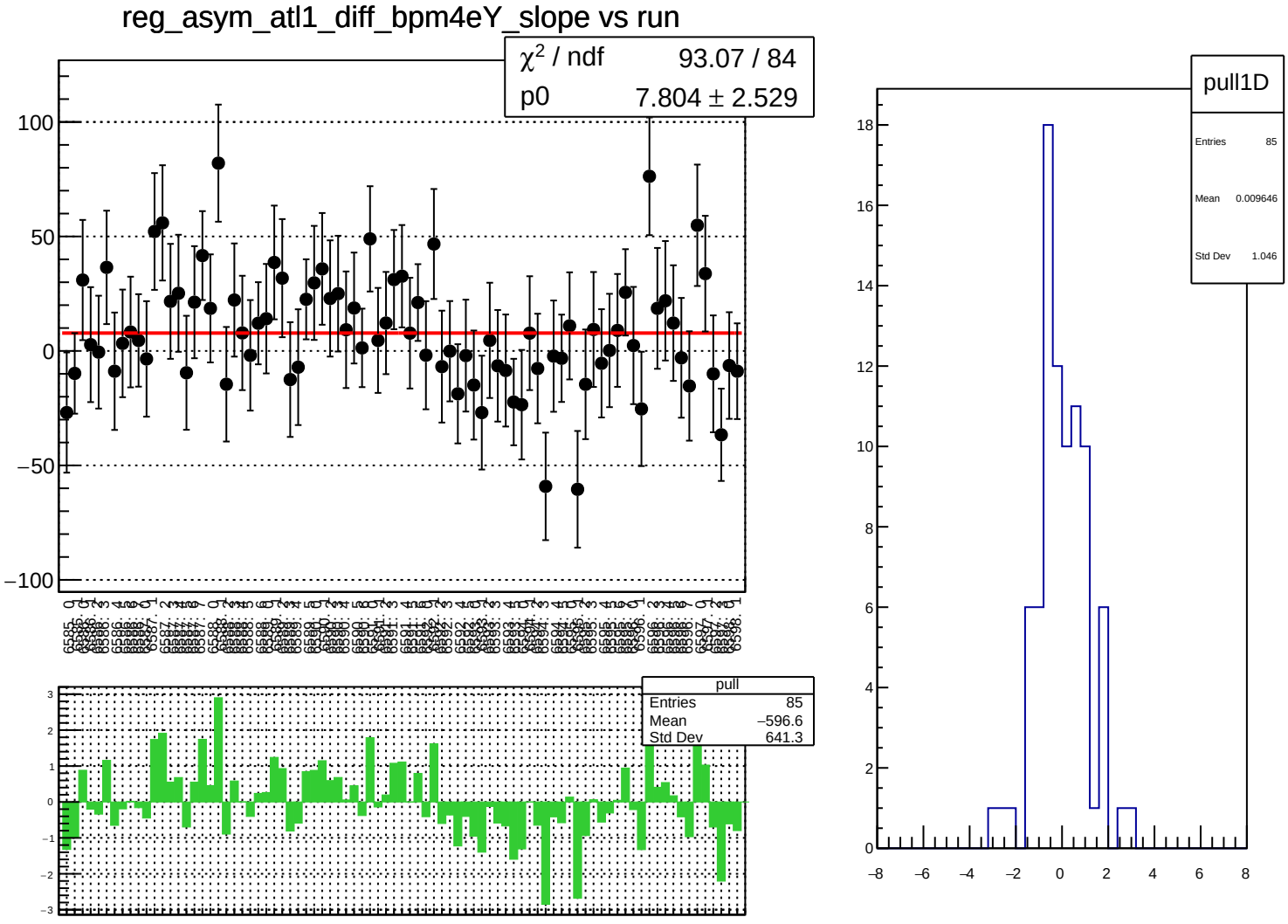

reg_asym_atl1_diff_bpm1X_slope vs run
χ^2 / ndf 61.56 / 84
p0 −43.37 ± 2.941
pull
Entries 85
Mean 33.99
Std Dev 81.86
pull1D
Entries 85
Mean −0.01424
Std Dev 0.8509

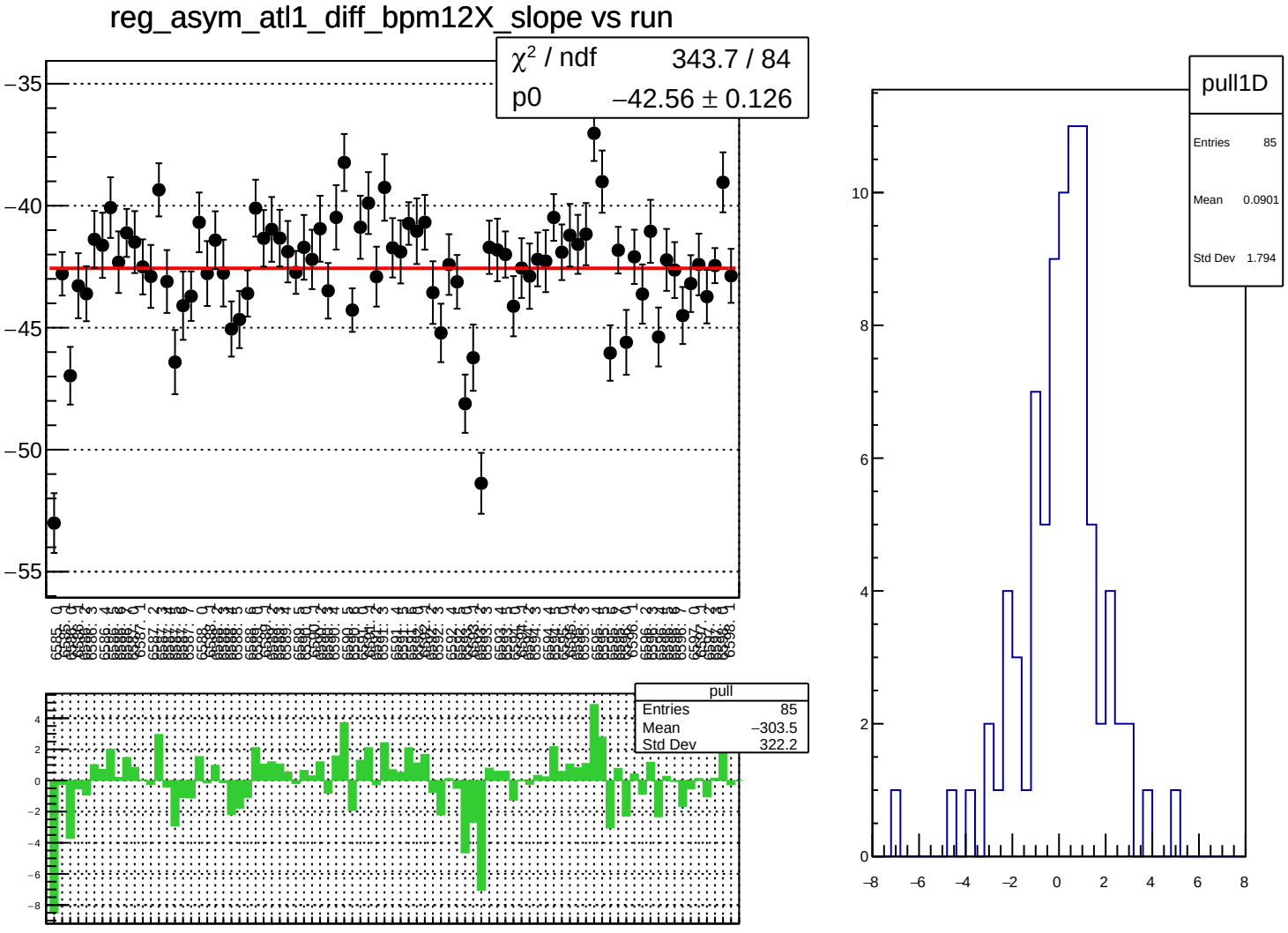

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 76.18 / 84
p0 −0.4435 ± 2.108
pull
Entries 85
Mean −837.1
Std Dev 882.7

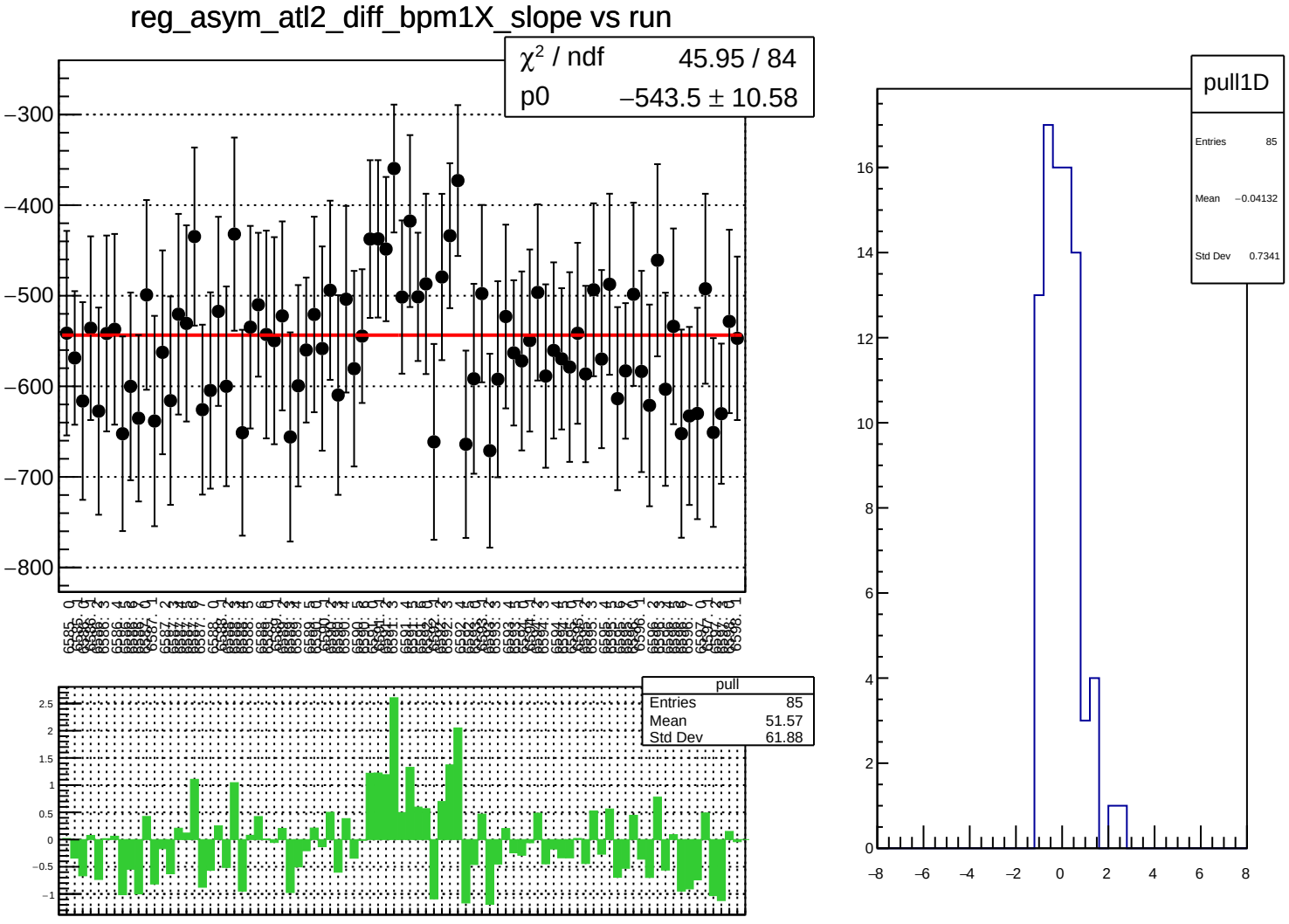

pull1D
Entries 85
Mean −0.005963
Std Dev 0.9467

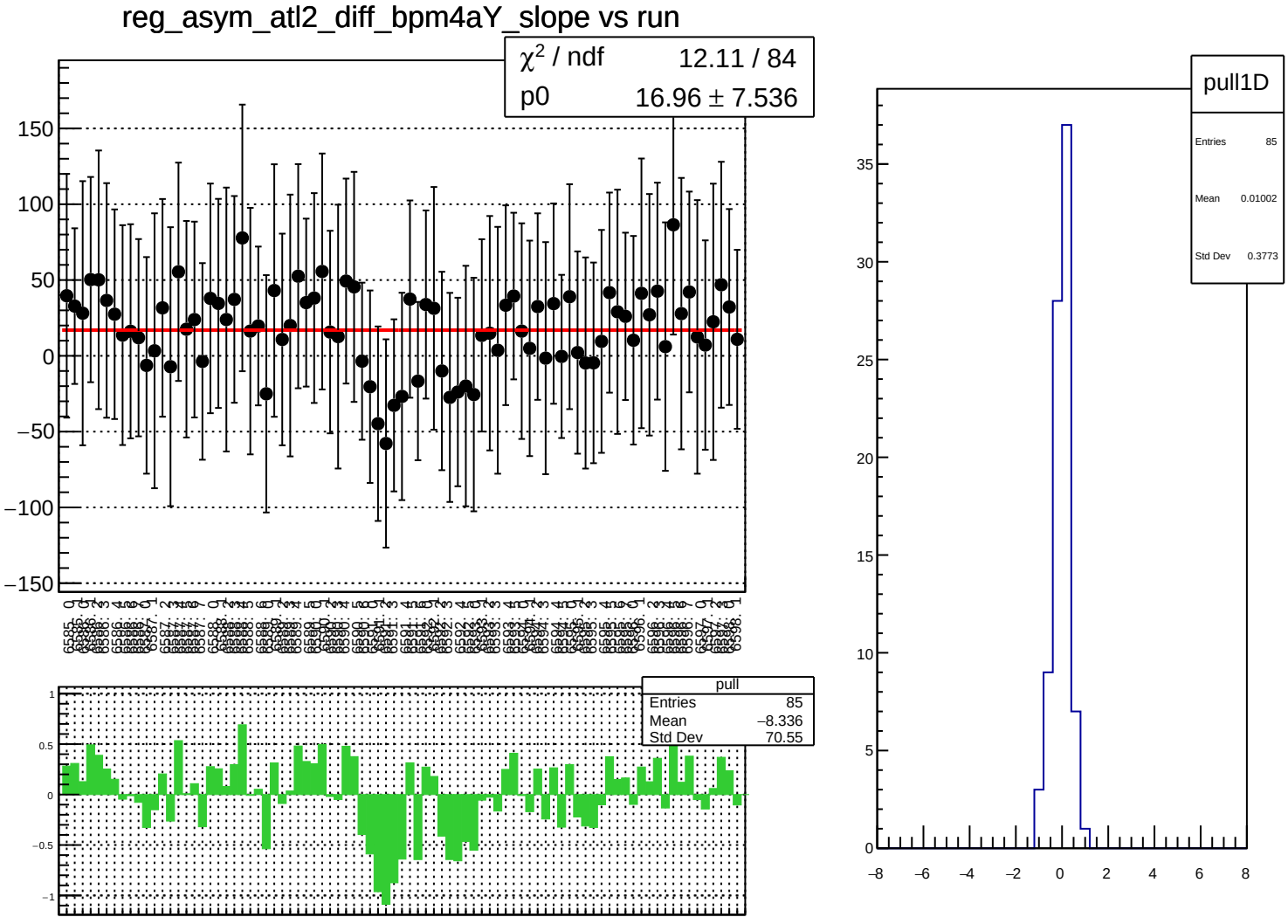

reg_asym_atl1_diff_bpm4eX_slope vs run
χ^2 / ndf 60.26 / 84
p0 95.05 ± 3.127
pull
Entries 85
Mean 33.01
Std Dev 79.1

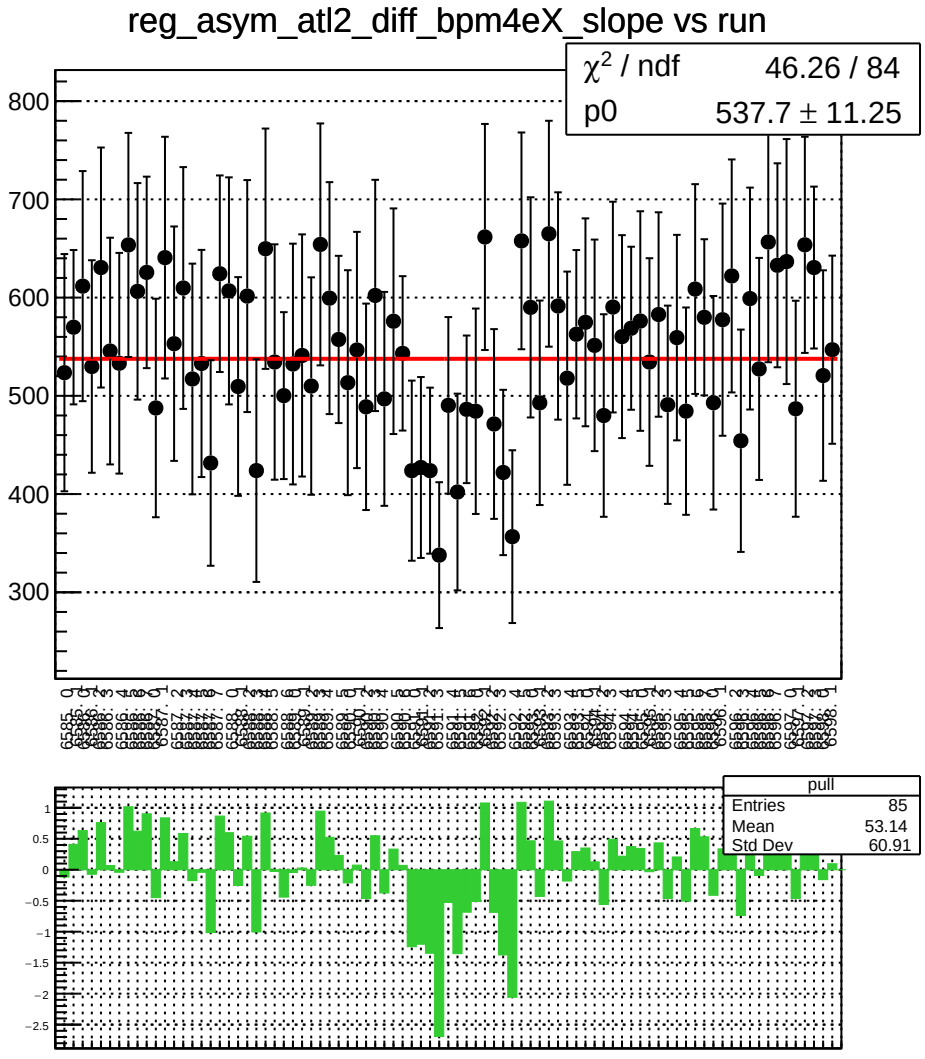

pull1D
Entries 85
Mean 0.01682
Std Dev 0.8418

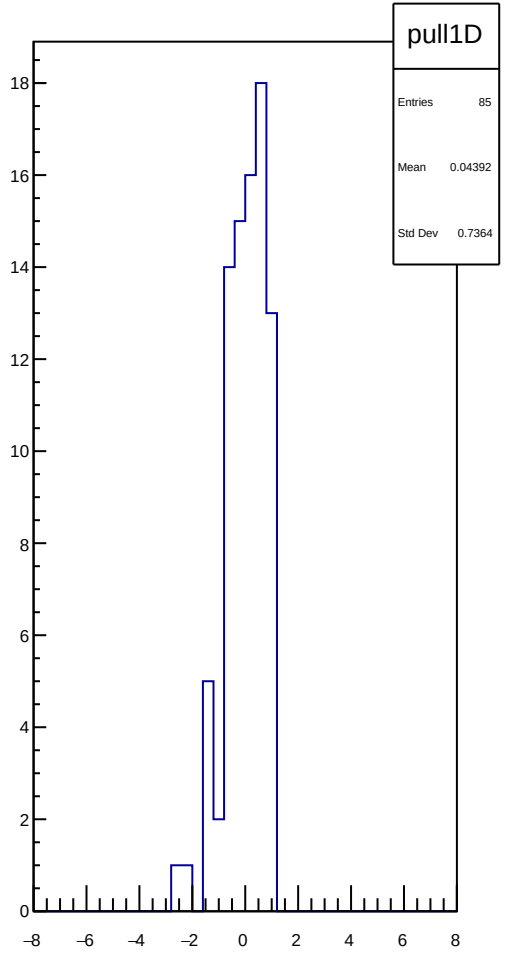

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 93.07 / 84
p0 7.804 ± 2.529
pull
Entries 85
Mean −596.6
Std Dev 641.3
pull1D
Entries 85
Mean 0.009646
Std Dev 1.046

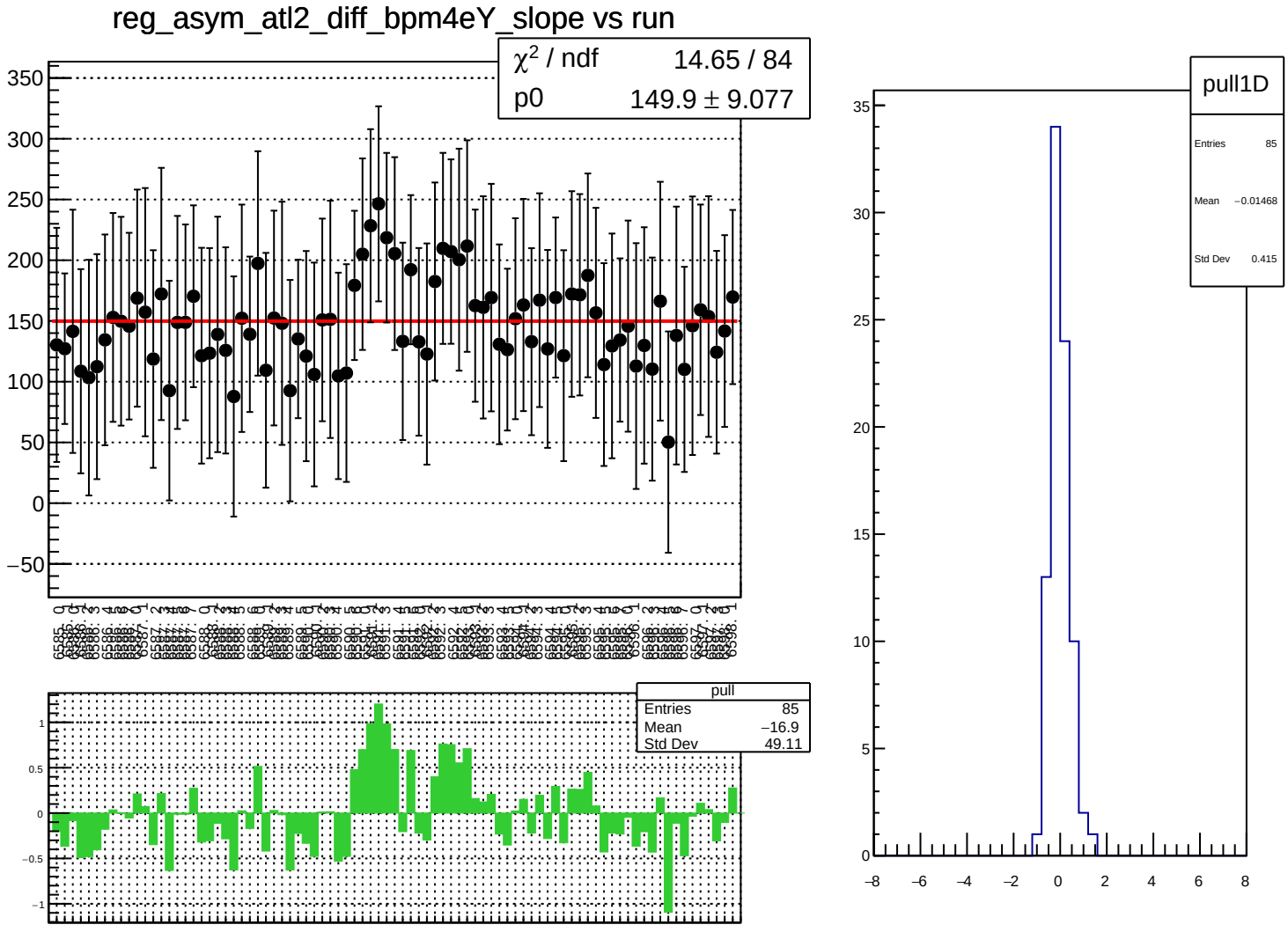

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 343.7 / 84
p0 −42.56 ± 0.126
pull
Entries 85
Mean −303.5
Std Dev 322.2
pull1D
Entries 85
Mean 0.0901
Std Dev 1.794

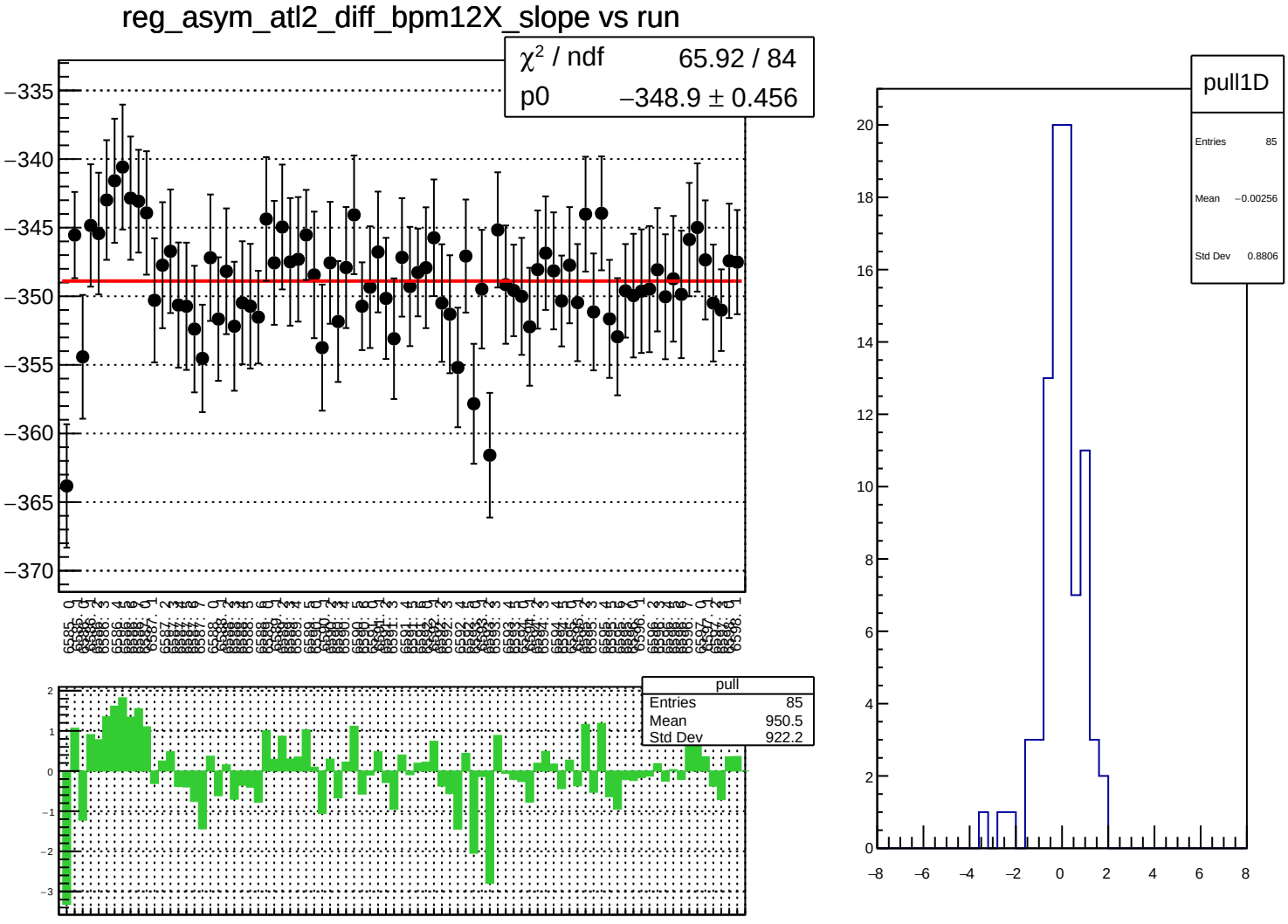

reg_asym_atl2_diff_bpm1X_slope vs run
χ^2 / ndf 45.95 / 84
p0 −543.5 ± 10.58
pull
Entries 85
Mean 51.57
Std Dev 61.88
pull1D
Entries 85
Mean −0.04132
Std Dev 0.7341

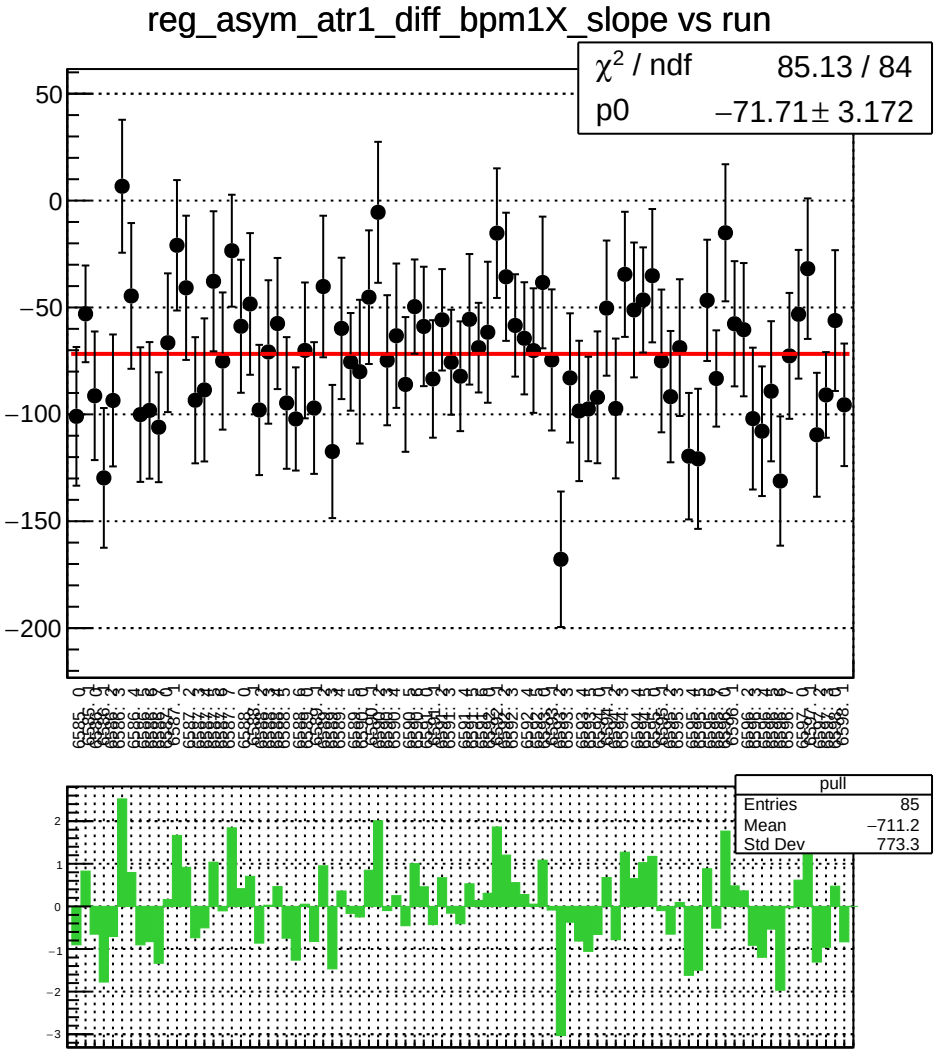

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 12.11 / 84
p0 16.96 ± 7.536
pull
Entries 85
Mean −8.336
Std Dev 70.55
pull1D
Entries 85
Mean 0.01002
Std Dev 0.3773

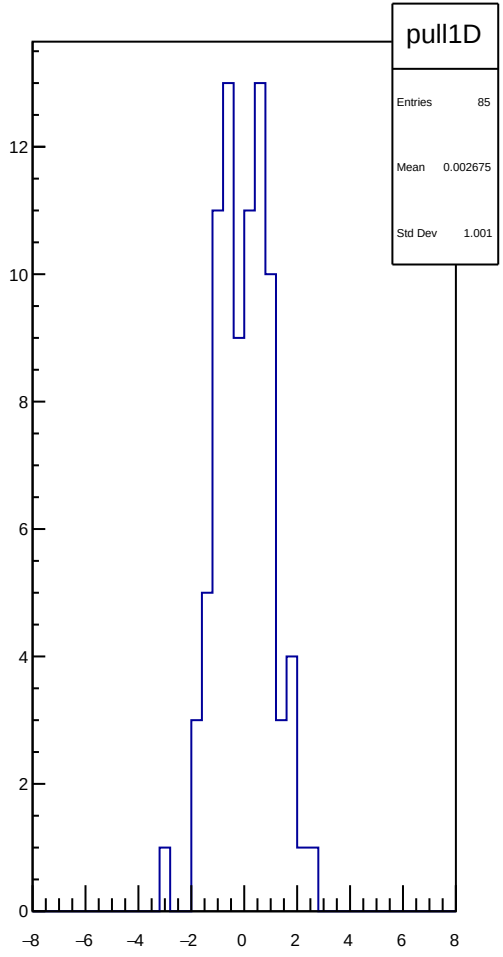

reg_asym_atl2_diff_bpm4eX_slope vs run
χ^2 / ndf 46.26 / 84
p0 537.7 ± 11.25
pull
Entries 85
Mean 53.14
Std Dev 60.91

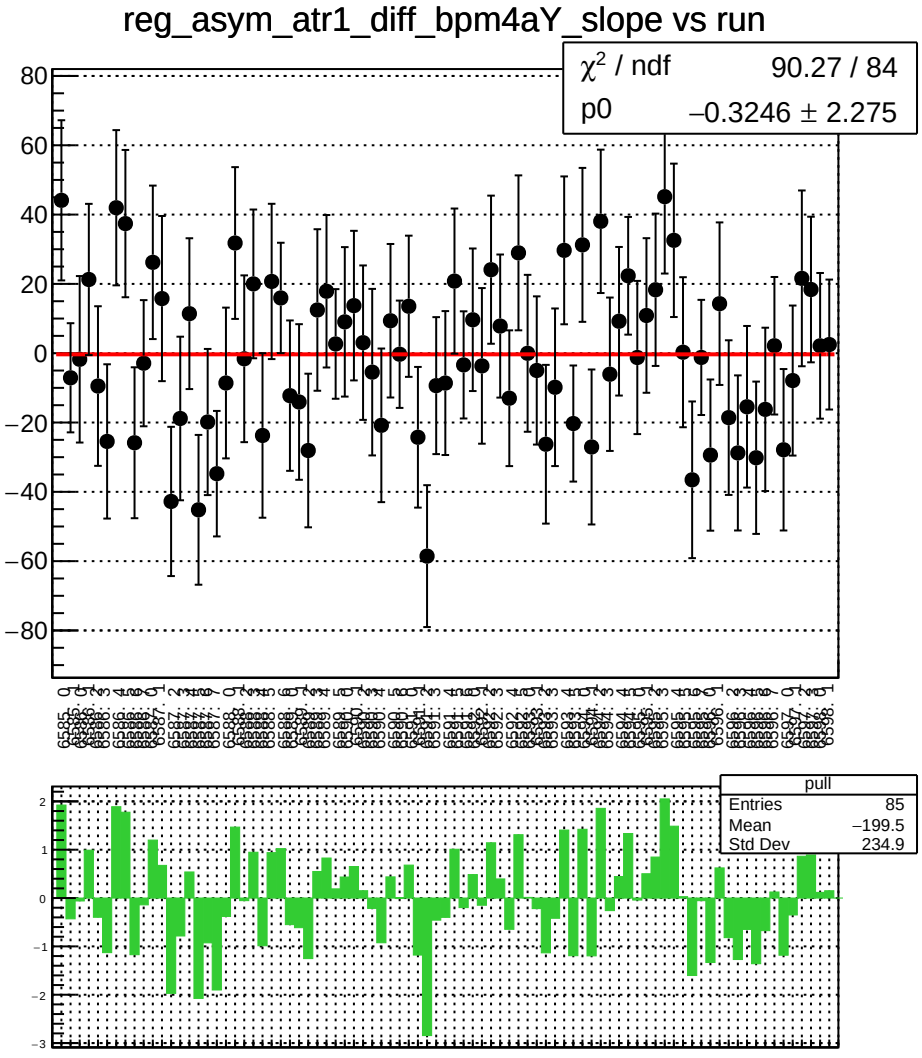

pull1D
Entries 85
Mean 0.04392
Std Dev 0.7364

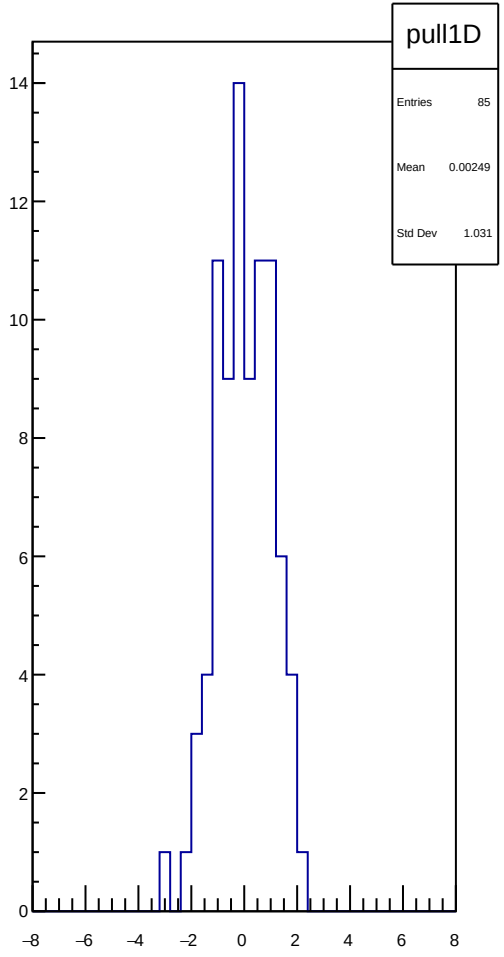

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 14.65 / 84
p0 149.9 ± 9.077
pull
Entries 85
Mean −16.9
Std Dev 49.11
pull1D
Entries 85
Mean −0.01468
Std Dev 0.415

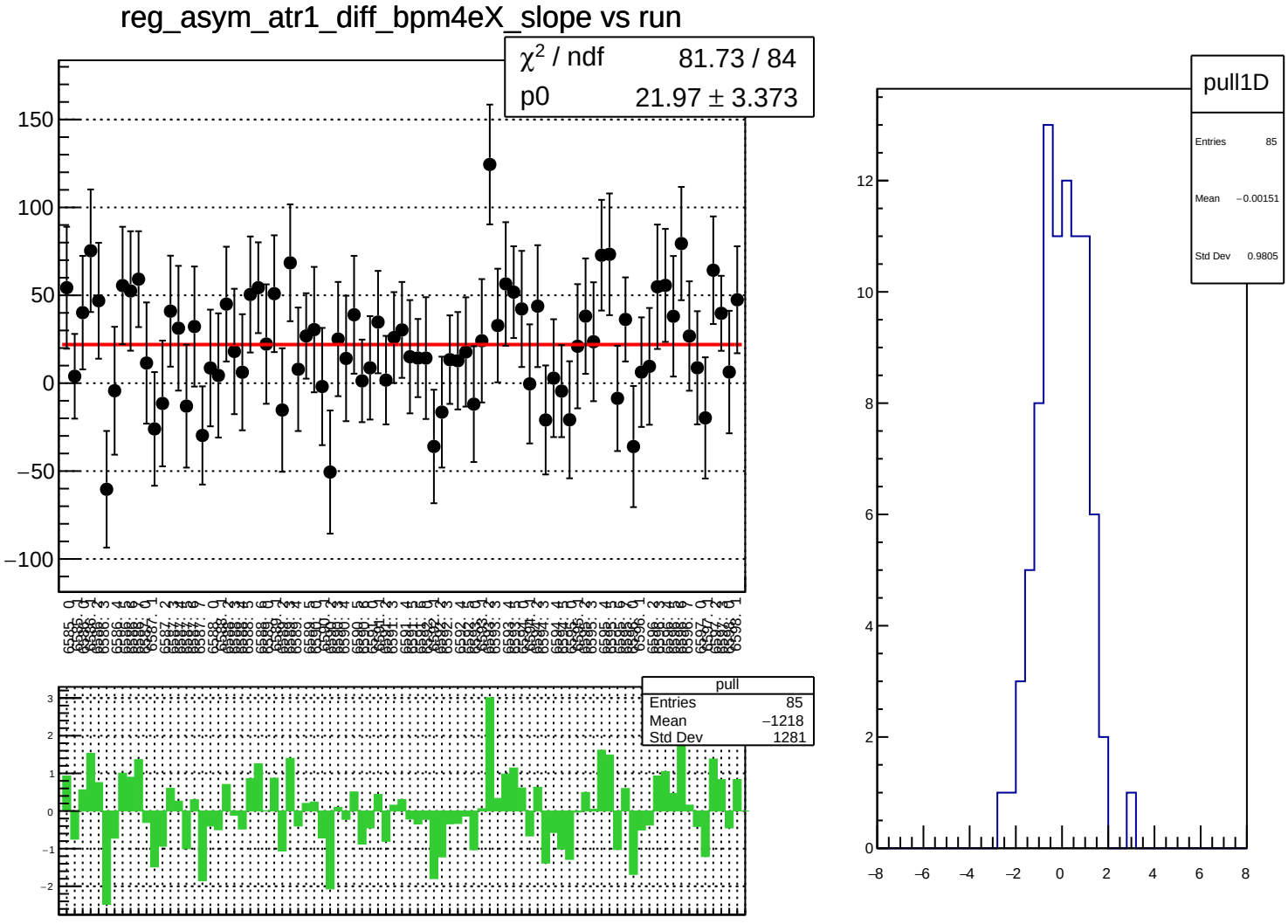

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 65.92 / 84
p0 −348.9 ± 0.456
pull
Entries 85
Mean 950.5
Std Dev 922.2
pull1D
Entries 85
Mean −0.00256
Std Dev 0.8806

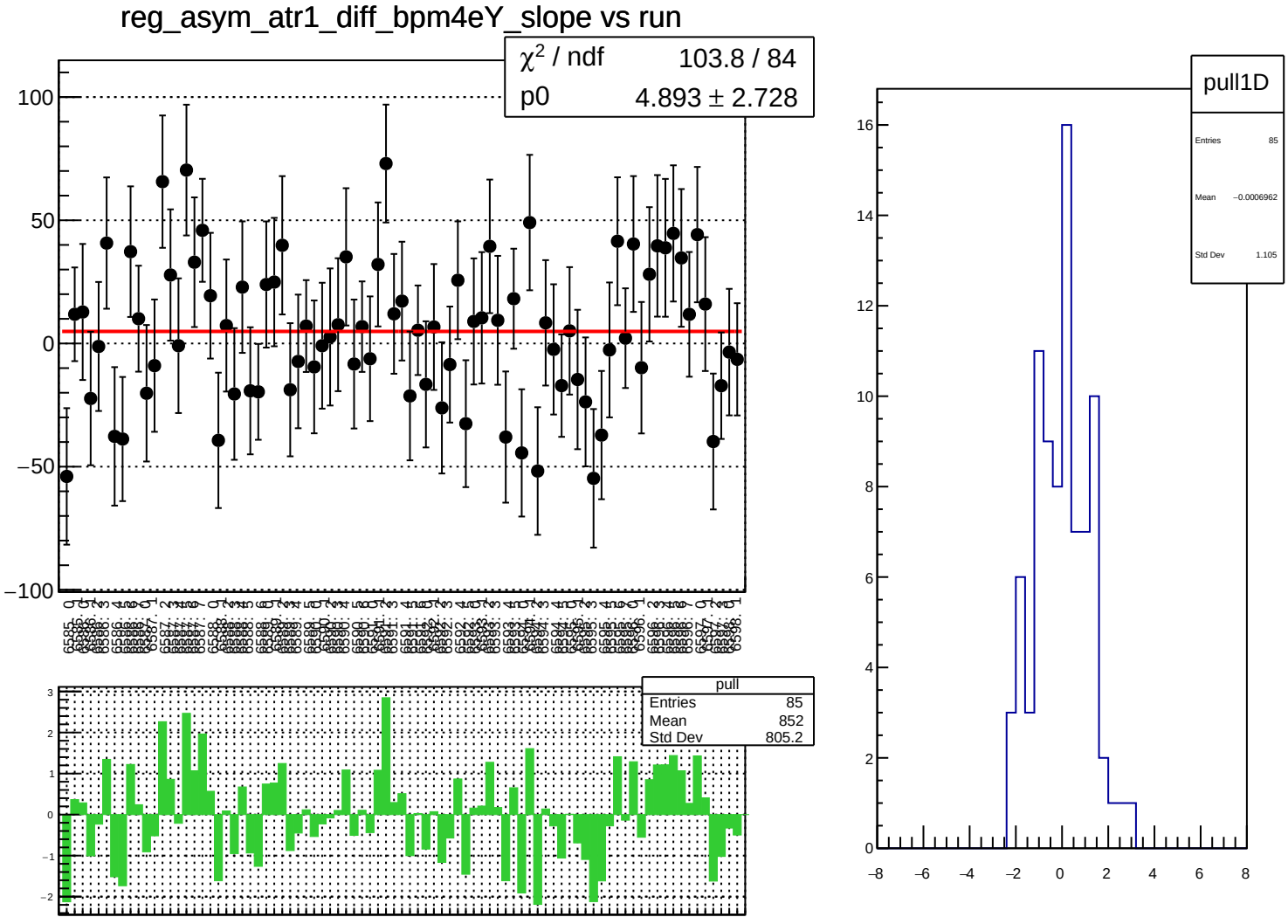

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 85.13 / 84
p0 −71.71 ± 3.172
pull
Entries 85
Mean −711.2
Std Dev 773.3

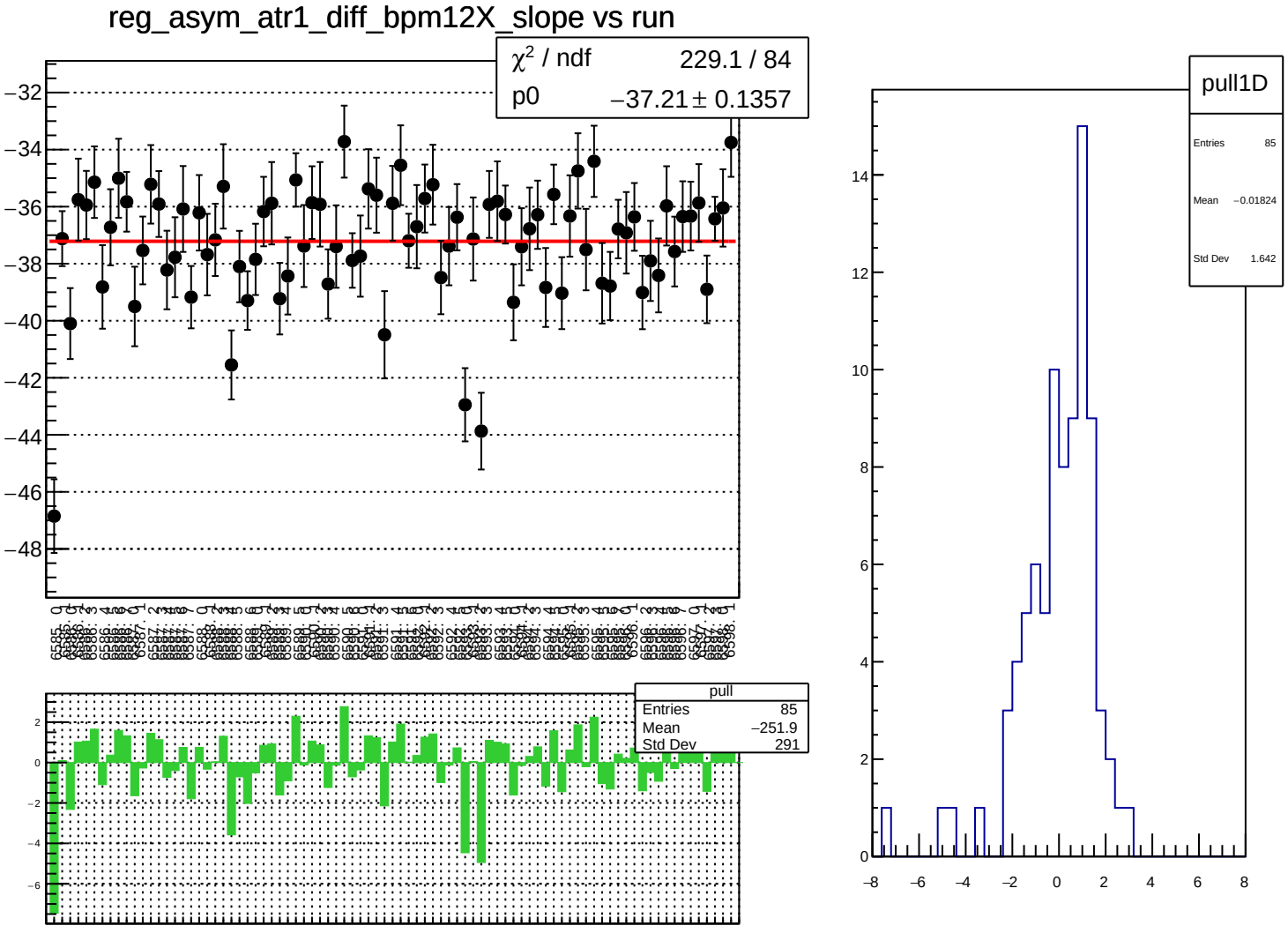

pull1D
Entries 85
Mean 0.002675
Std Dev 1.001

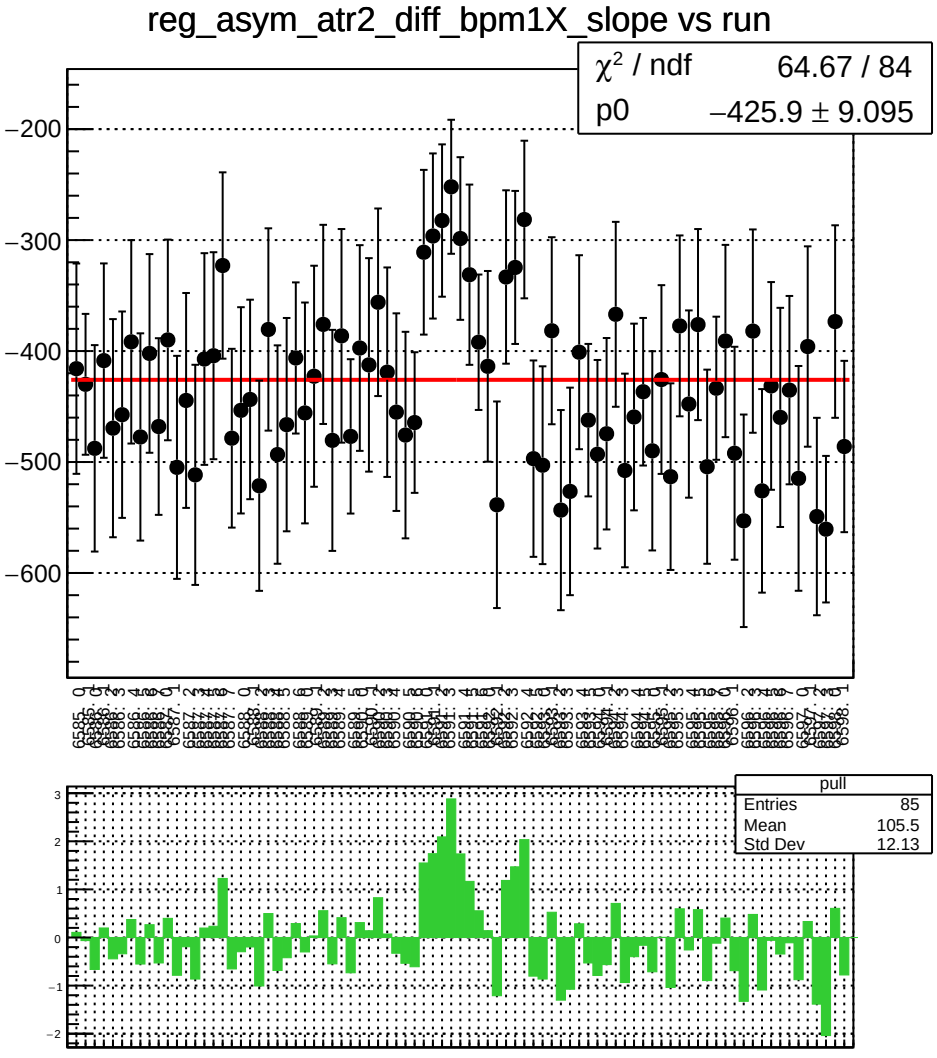

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 90.27 / 84
p0 −0.3246 ± 2.275
pull
Entries 85
Mean −199.5
Std Dev 234.9

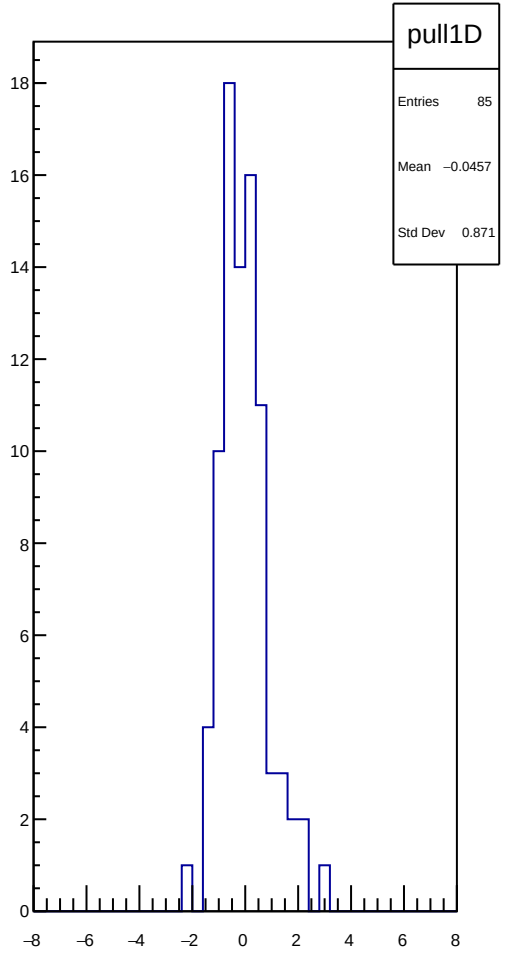

pull1D
Entries 85
Mean 0.00249
Std Dev 1.031

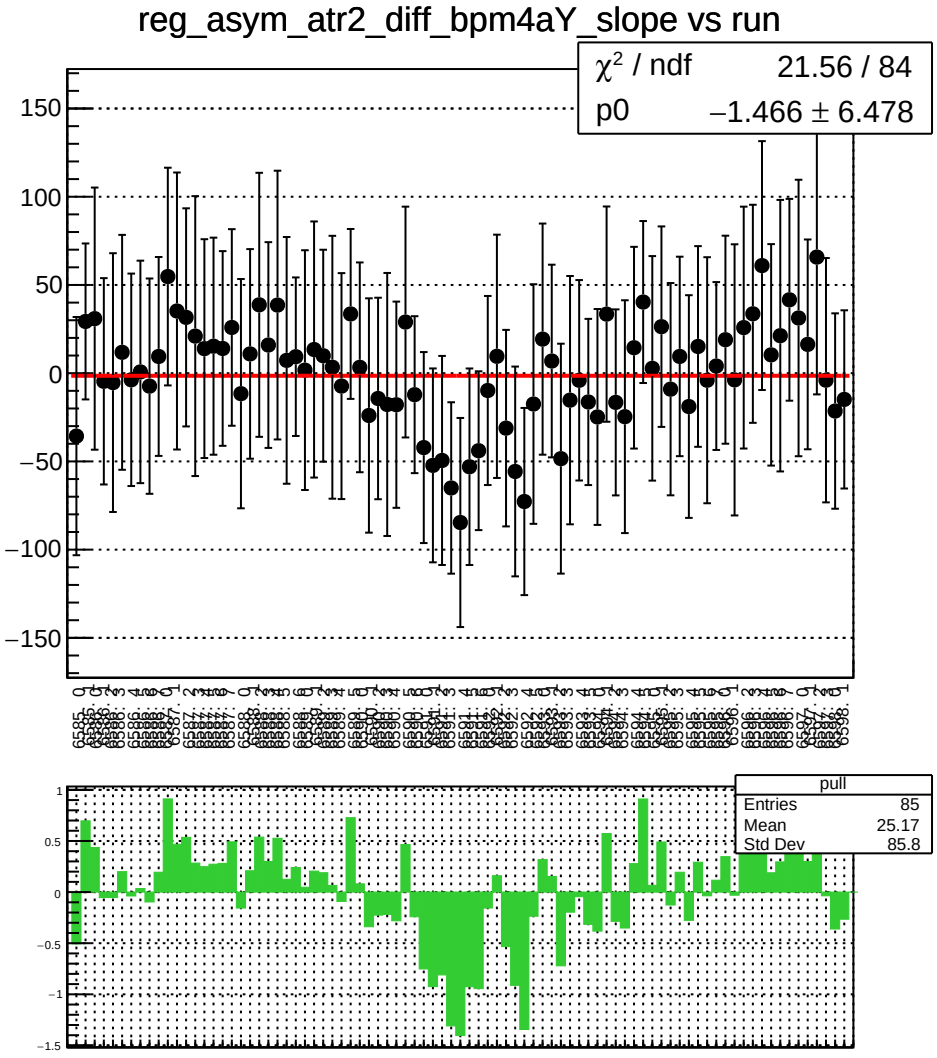

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 81.73 / 84
p0 21.97 ± 3.373
150
100
50
0
−50
−100
pull
Entries 85
Mean −1218
Std Dev 1281
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.00151
Std Dev 0.9805
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

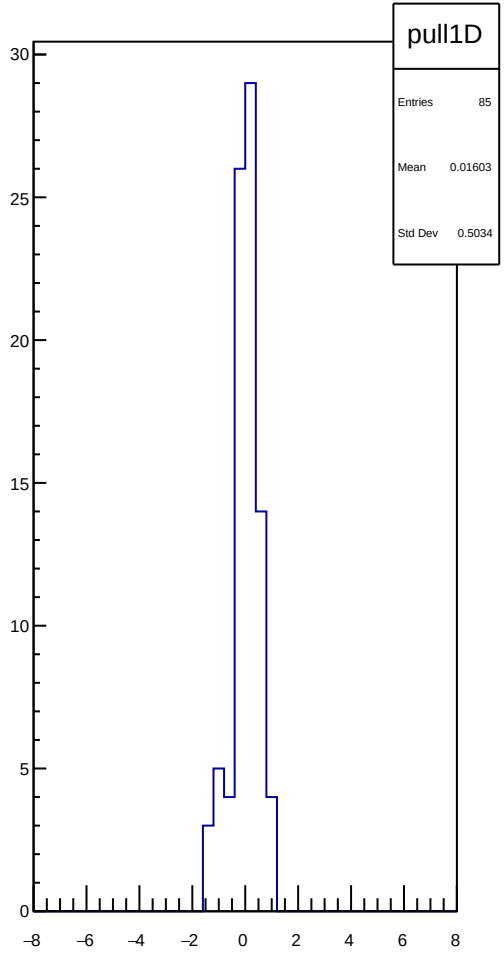

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 103.8 / 84
p0 4.893 ± 2.728
pull
Entries 85
Mean 852
Std Dev 805.2
pull1D
Entries 85
Mean −0.0006962
Std Dev 1.105

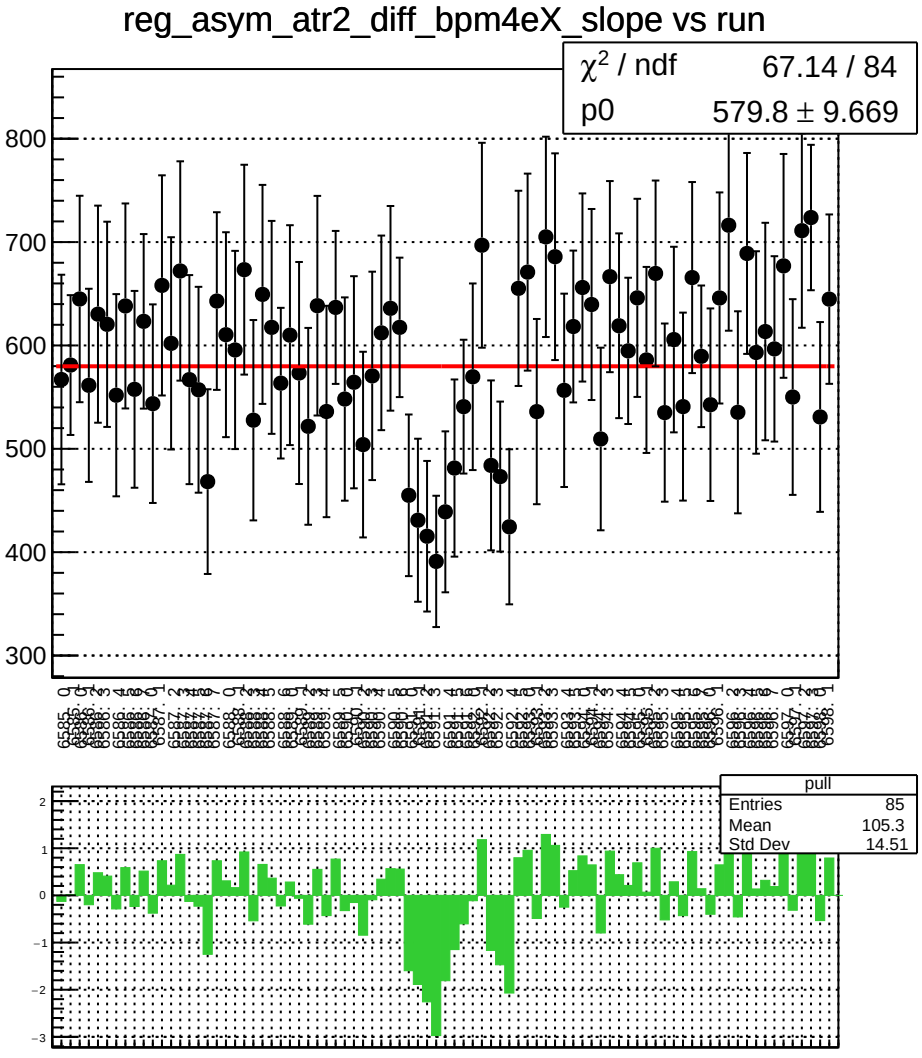

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 229.1 / 84
p0 −37.21 ± 0.1357
pull
Entries 85
Mean −251.9
Std Dev 291
pull1D
Entries 85
Mean −0.01824
Std Dev 1.642

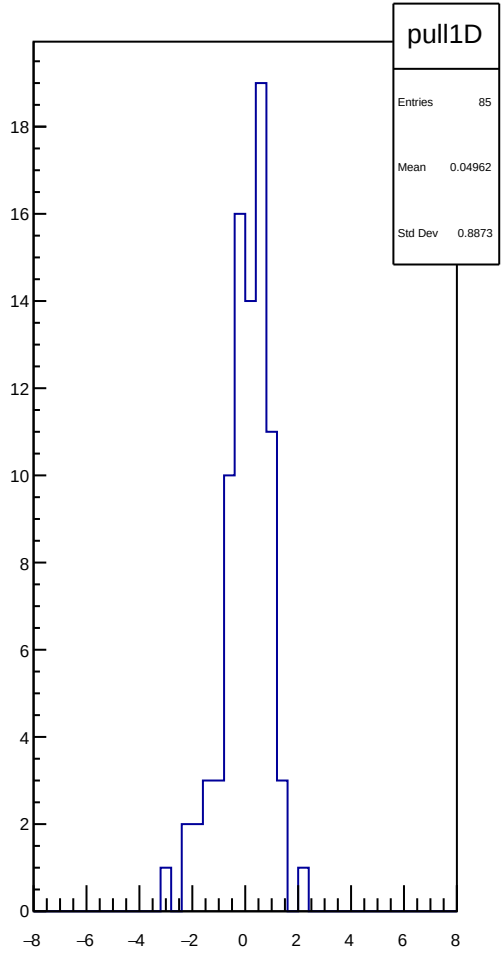

reg_asym_atr2_diff_bpm1X_slope vs run
χ^2 / ndf 64.67 / 84
p0 −425.9 ± 9.095
−200
−300
−400
−500
−600
pull
Entries 85
Mean 105.5
Std Dev 12.13
3
2
1
0
−1
−2

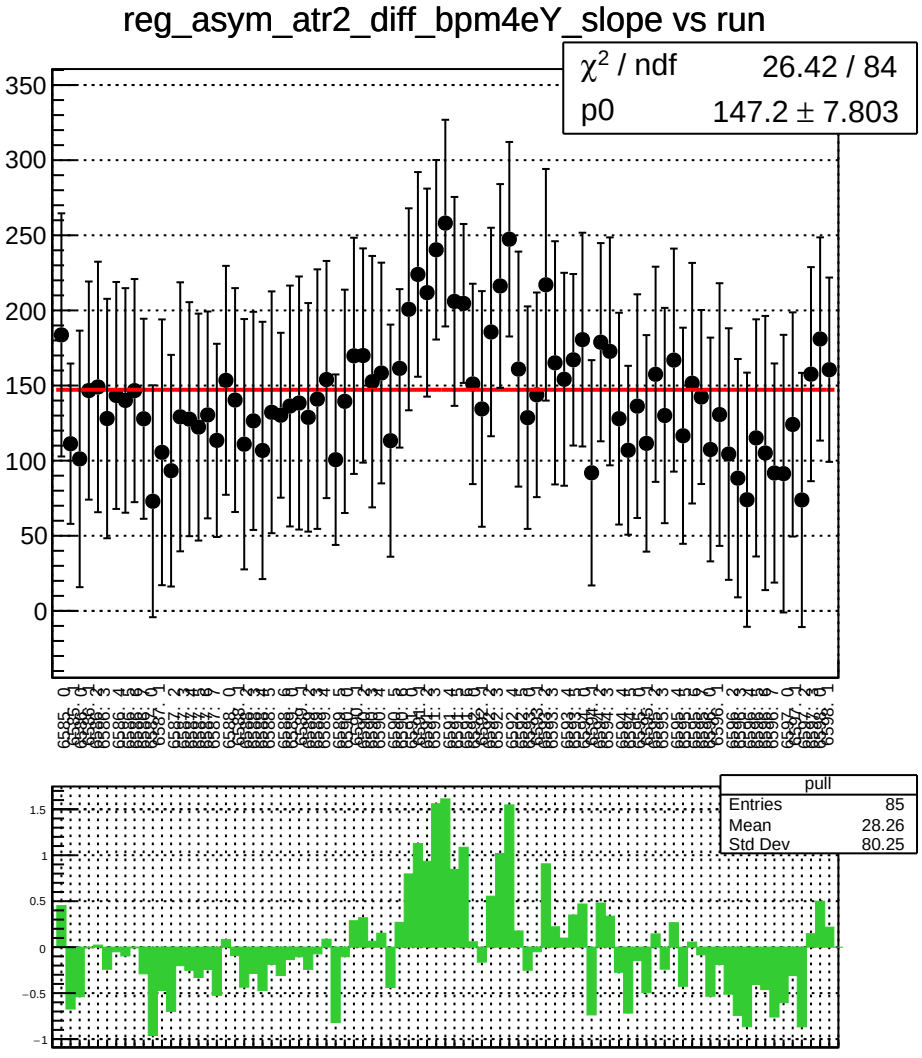

pull1D
Entries 85
Mean −0.0457
Std Dev 0.871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

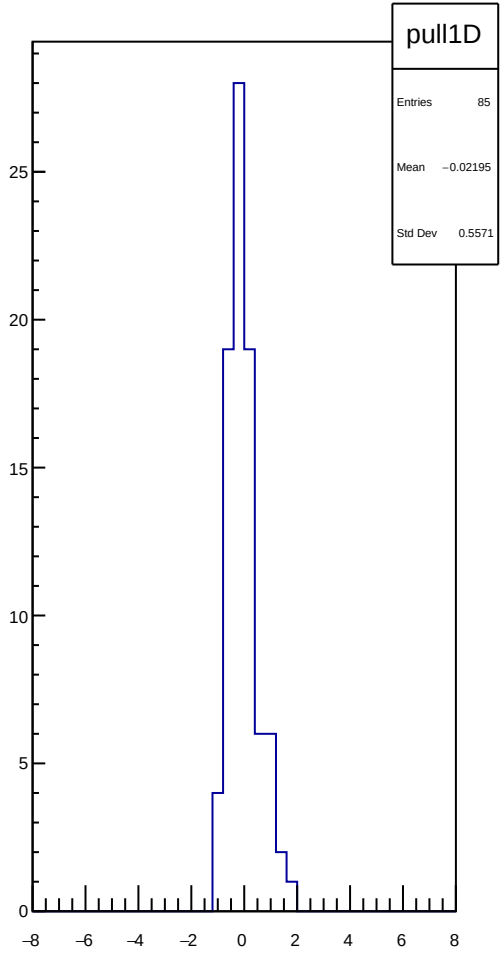

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 21.56 / 84
p0 −1.466 ± 6.478
pull
Entries 85
Mean 25.17
Std Dev 85.8

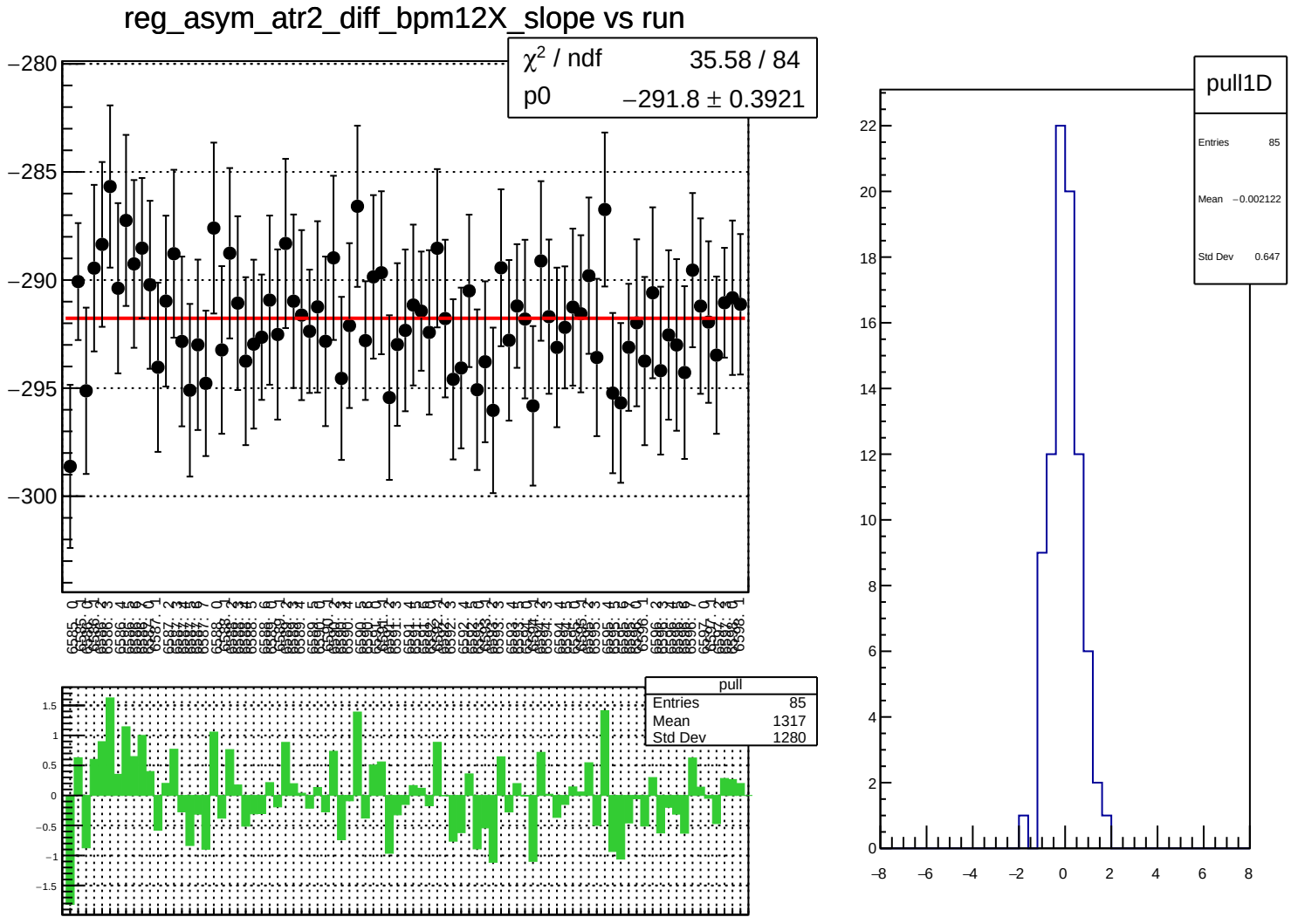

pull1D
Entries 85
Mean 0.01603
Std Dev 0.5034

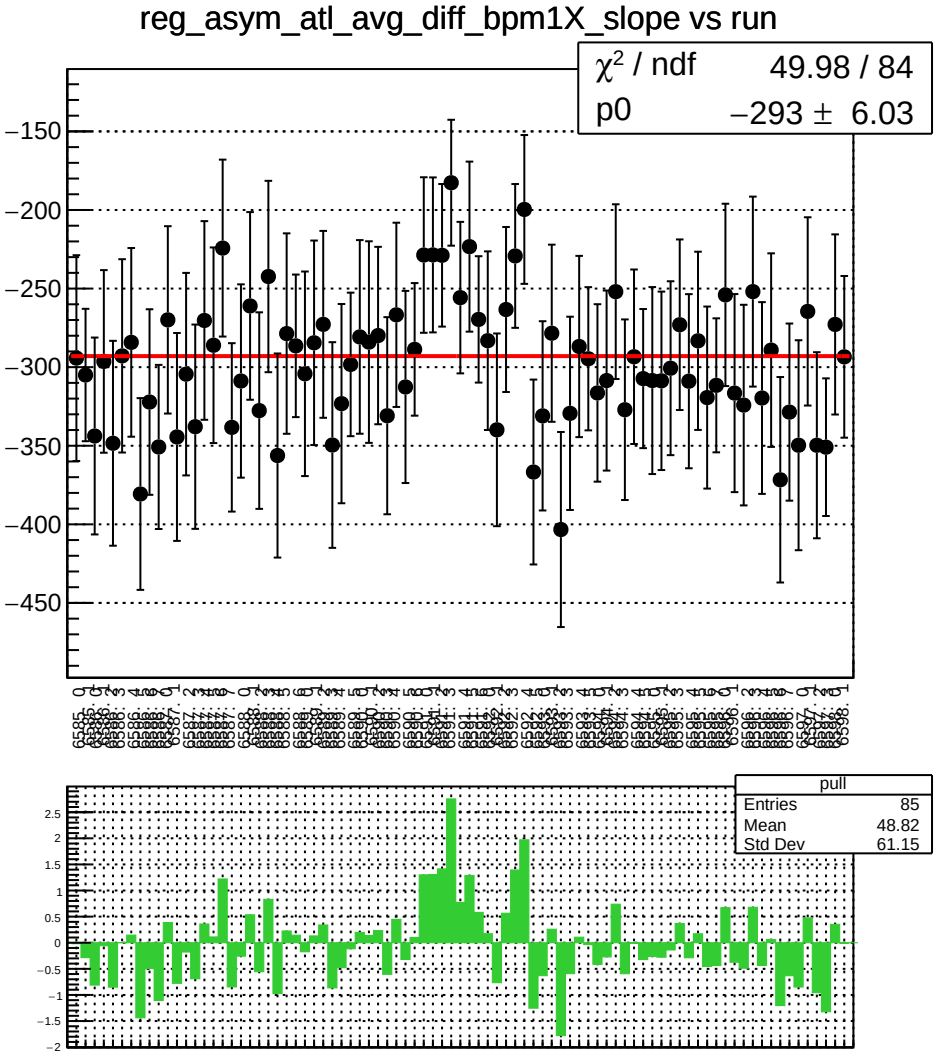

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 67.14 / 84
p0 579.8 ± 9.669
pull
Entries 85
Mean 105.3
Std Dev 14.51

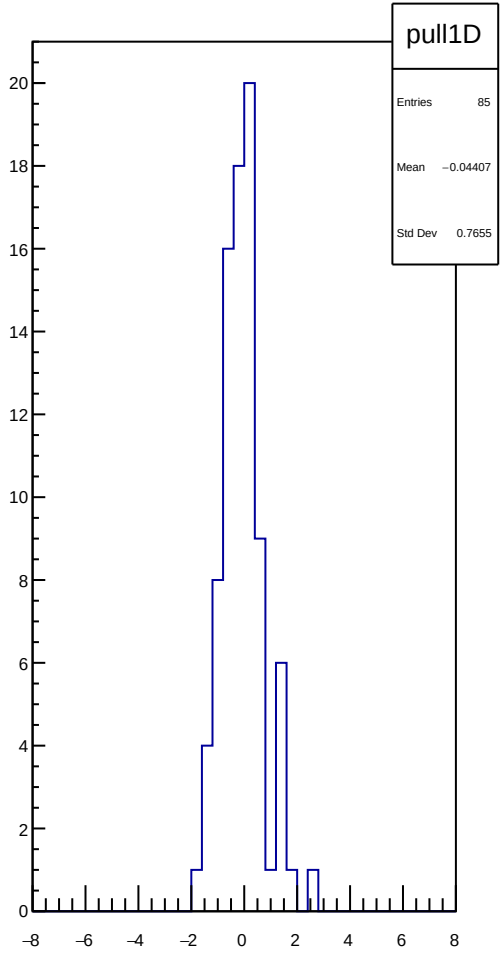

pull1D
Entries 85
Mean 0.04962
Std Dev 0.8873

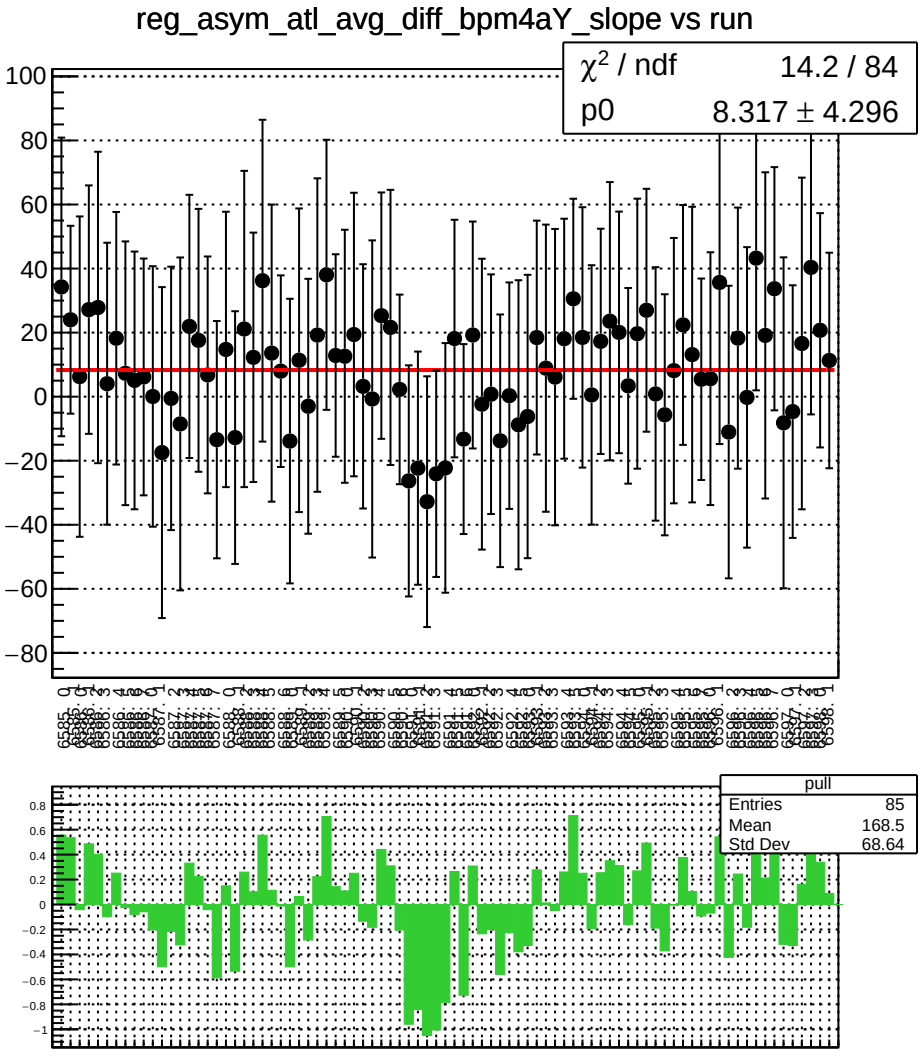

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 26.42 / 84
p0 147.2 ± 7.803
pull
Entries 85
Mean 28.26
Std Dev 80.25

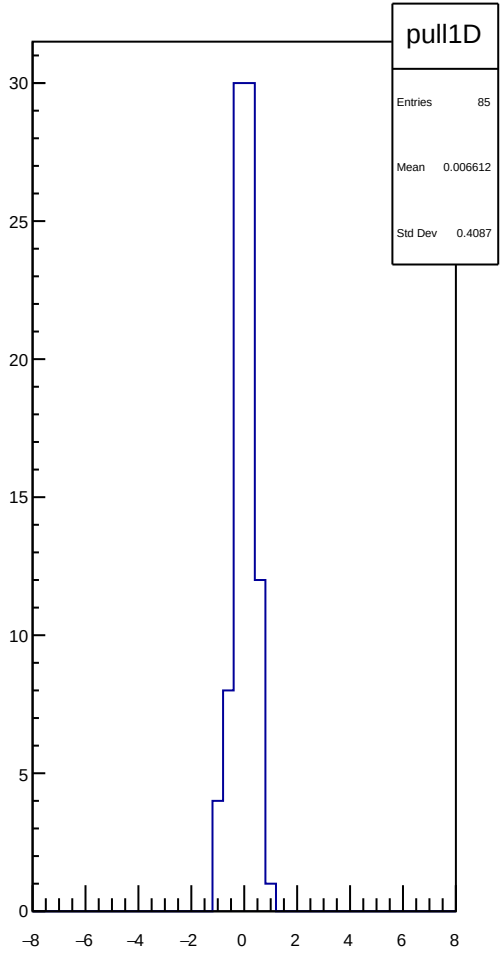

pull1D
Entries 85
Mean −0.02195
Std Dev 0.5571

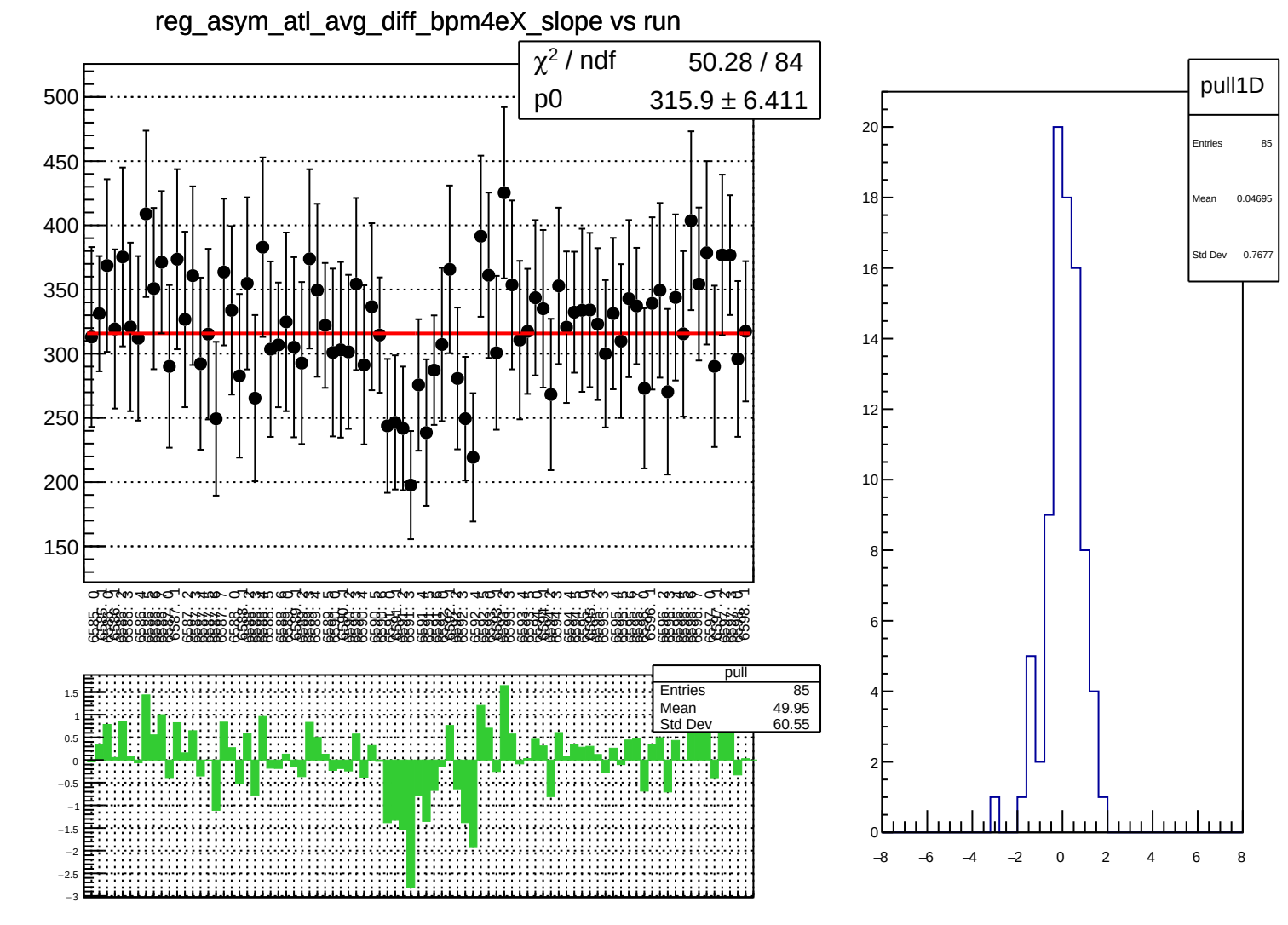

reg_asym_atr2_diff_bpm12X_slope vs run
χ^2 / ndf 35.58 / 84
p0 −291.8 ± 0.3921
pull
Entries 85
Mean 1317
Std Dev 1280
pull1D
Entries 85
Mean −0.002122
Std Dev 0.647

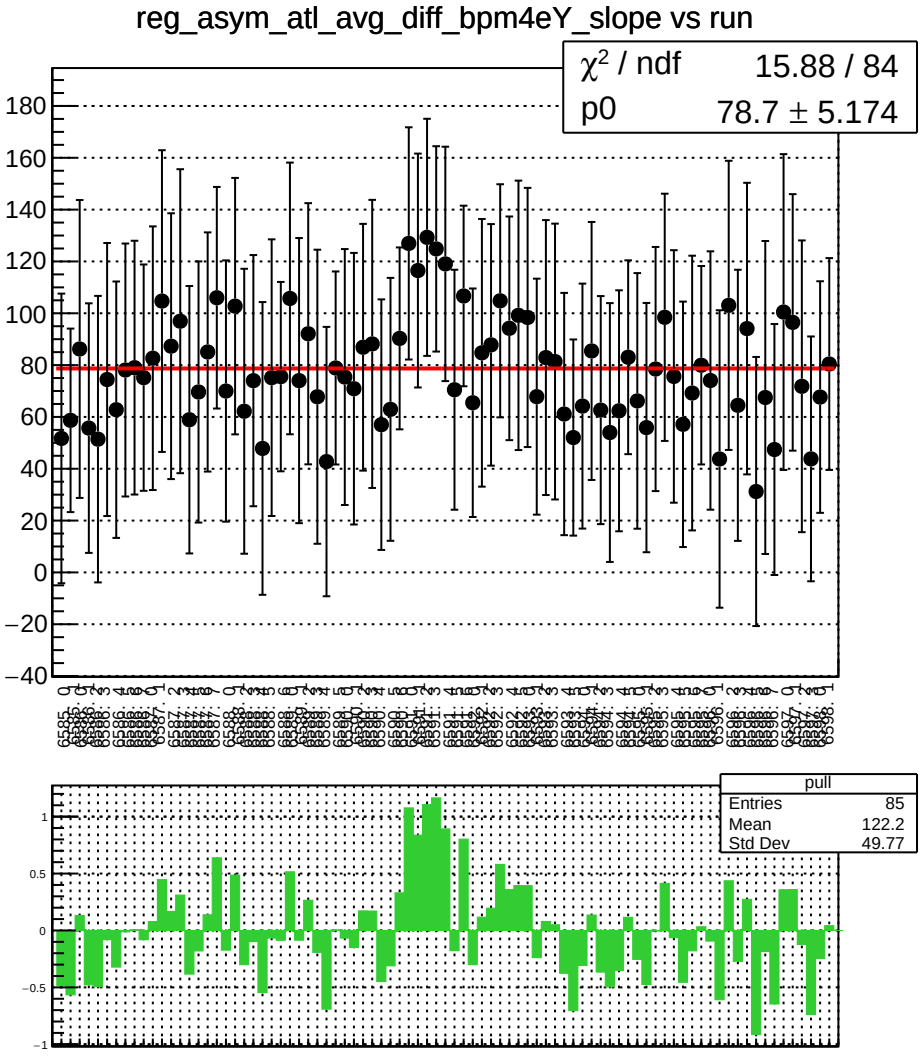

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 49.98 / 84
p0 −293 ± 6.03
pull
Entries 85
Mean 48.82
Std Dev 61.15

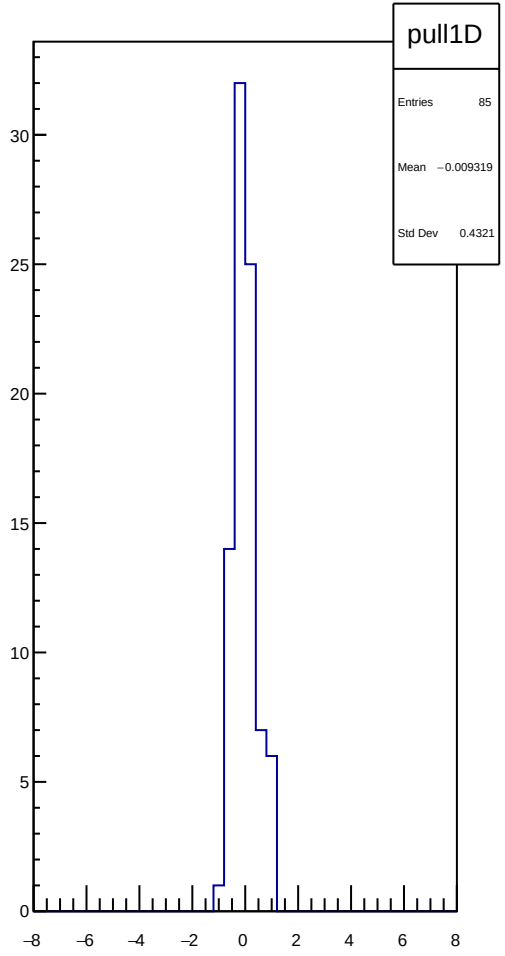

pull1D
Entries 85
Mean −0.04407
Std Dev 0.7655

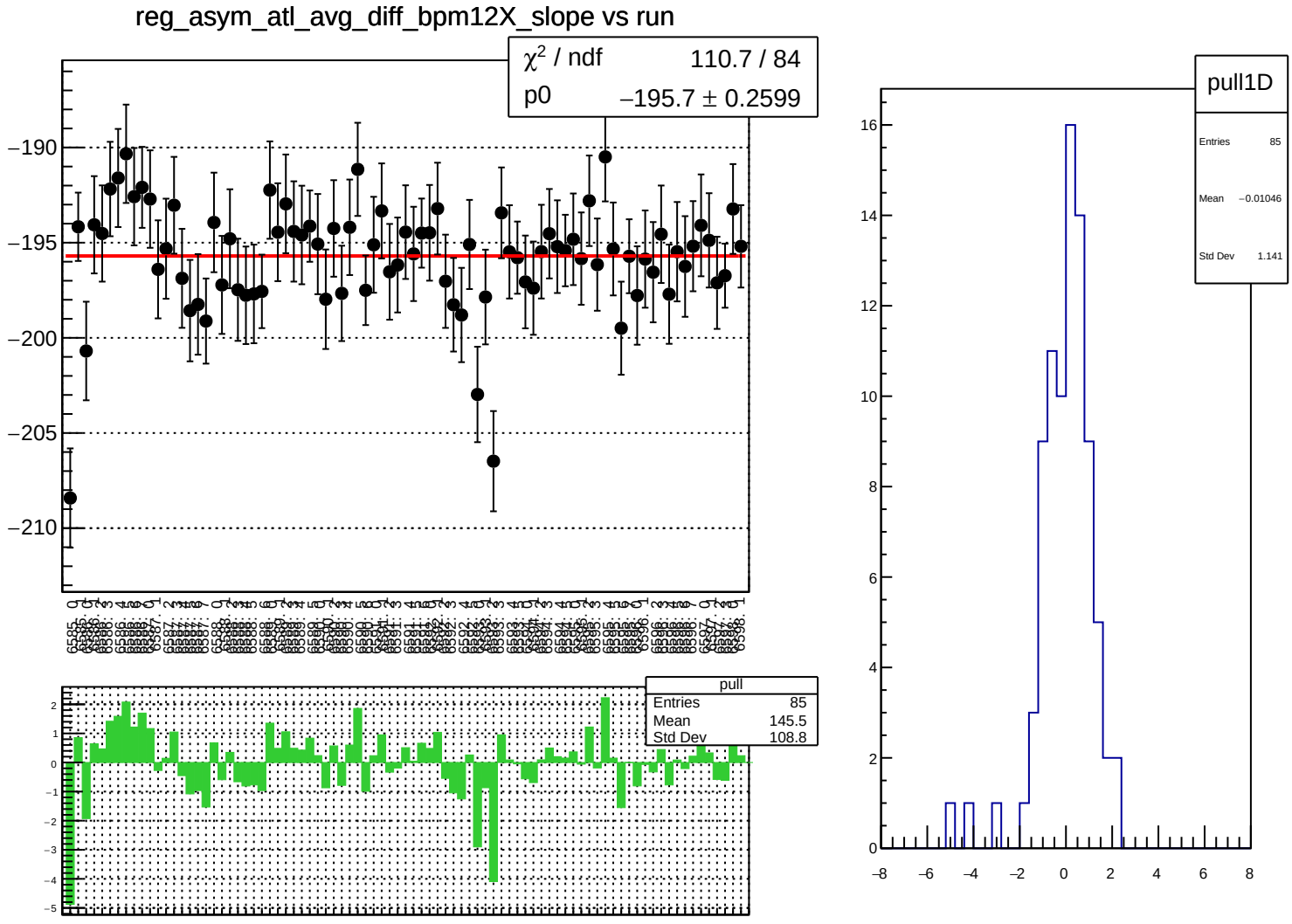

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 14.2 / 84
p0 8.317 ± 4.296
pull
Entries 85
Mean 168.5
Std Dev 68.64

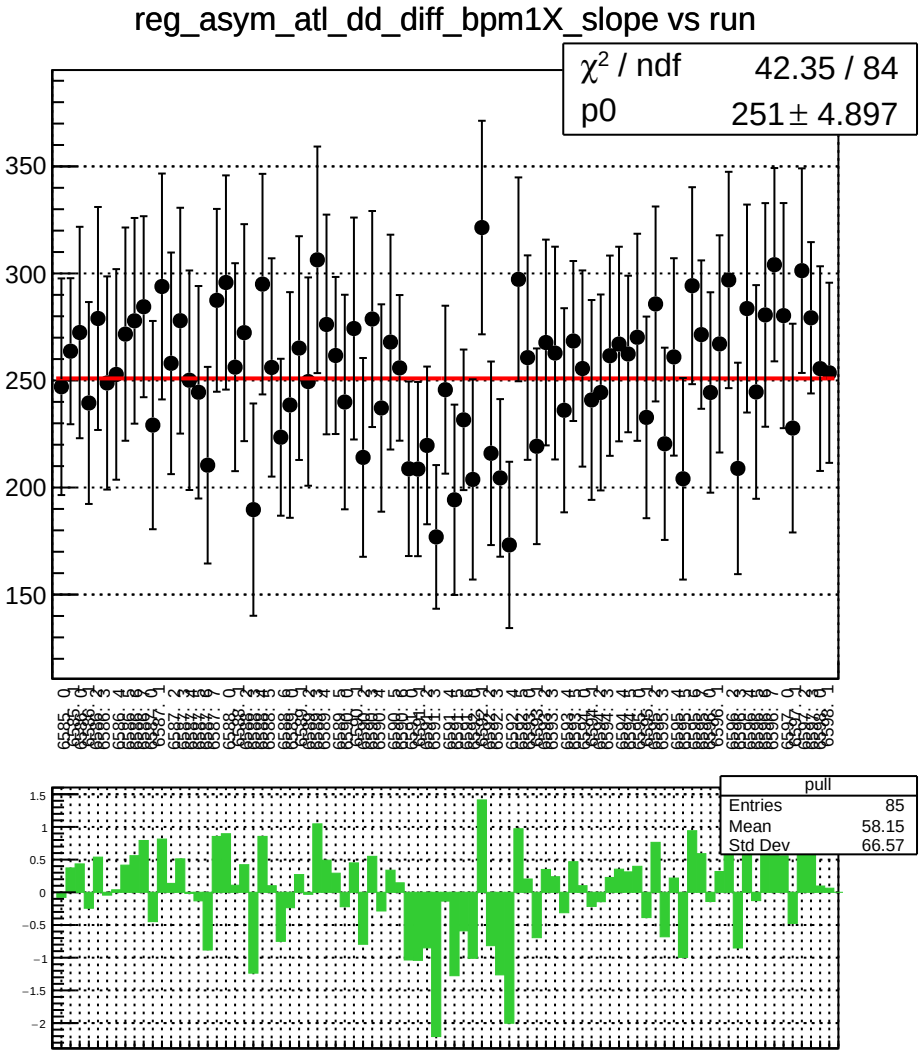

pull1D
Entries 85
Mean 0.006612
Std Dev 0.4087

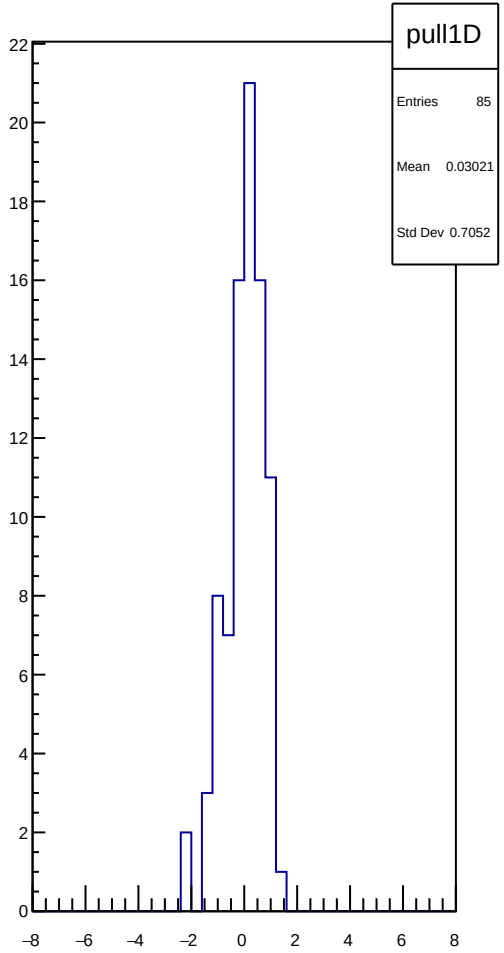

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.28 / 84
p0 315.9 ± 6.411
pull
Entries 85
Mean 49.95
Std Dev 60.55
pull1D
Entries 85
Mean 0.04695
Std Dev 0.7677

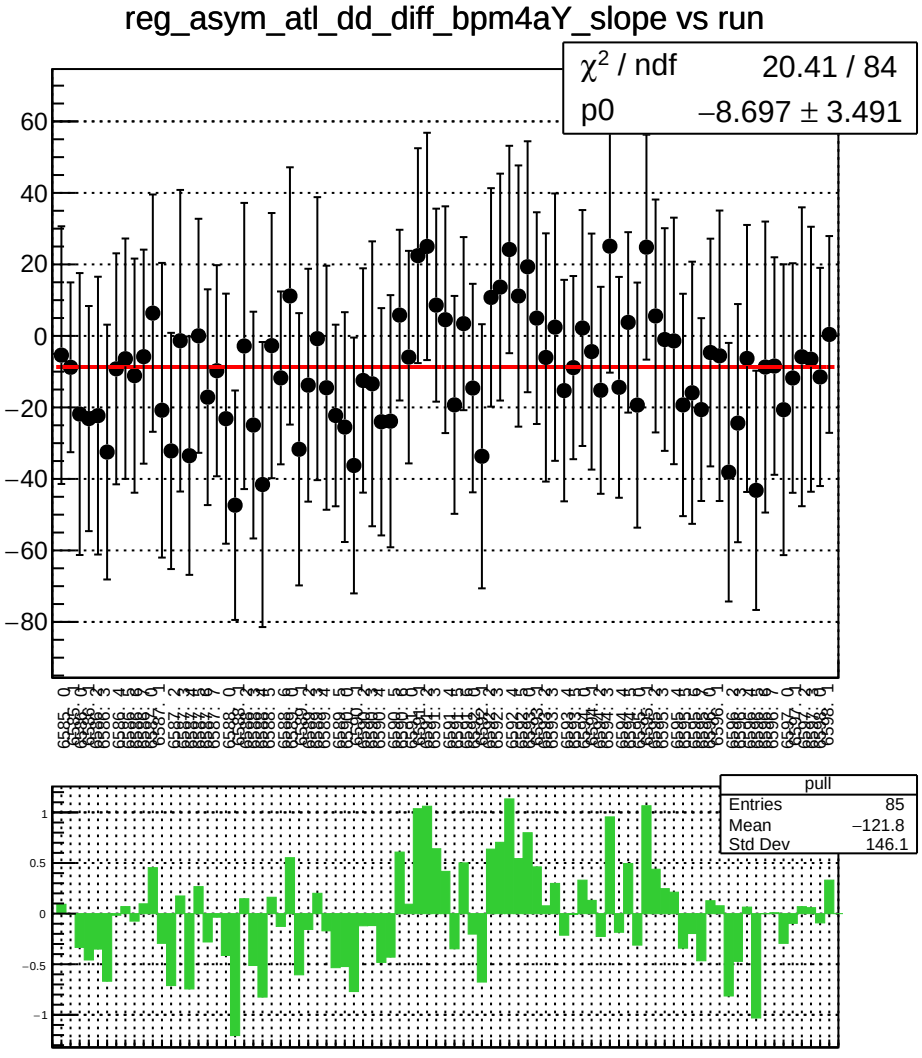

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.88 / 84
p0 78.7 ± 5.174
pull
Entries 85
Mean 122.2
Std Dev 49.77

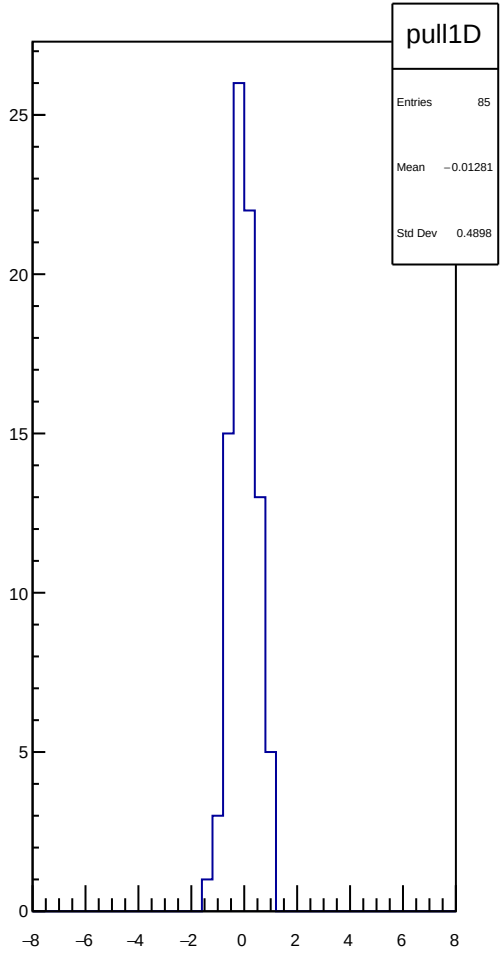

pull1D
Entries 85
Mean −0.009319
Std Dev 0.4321

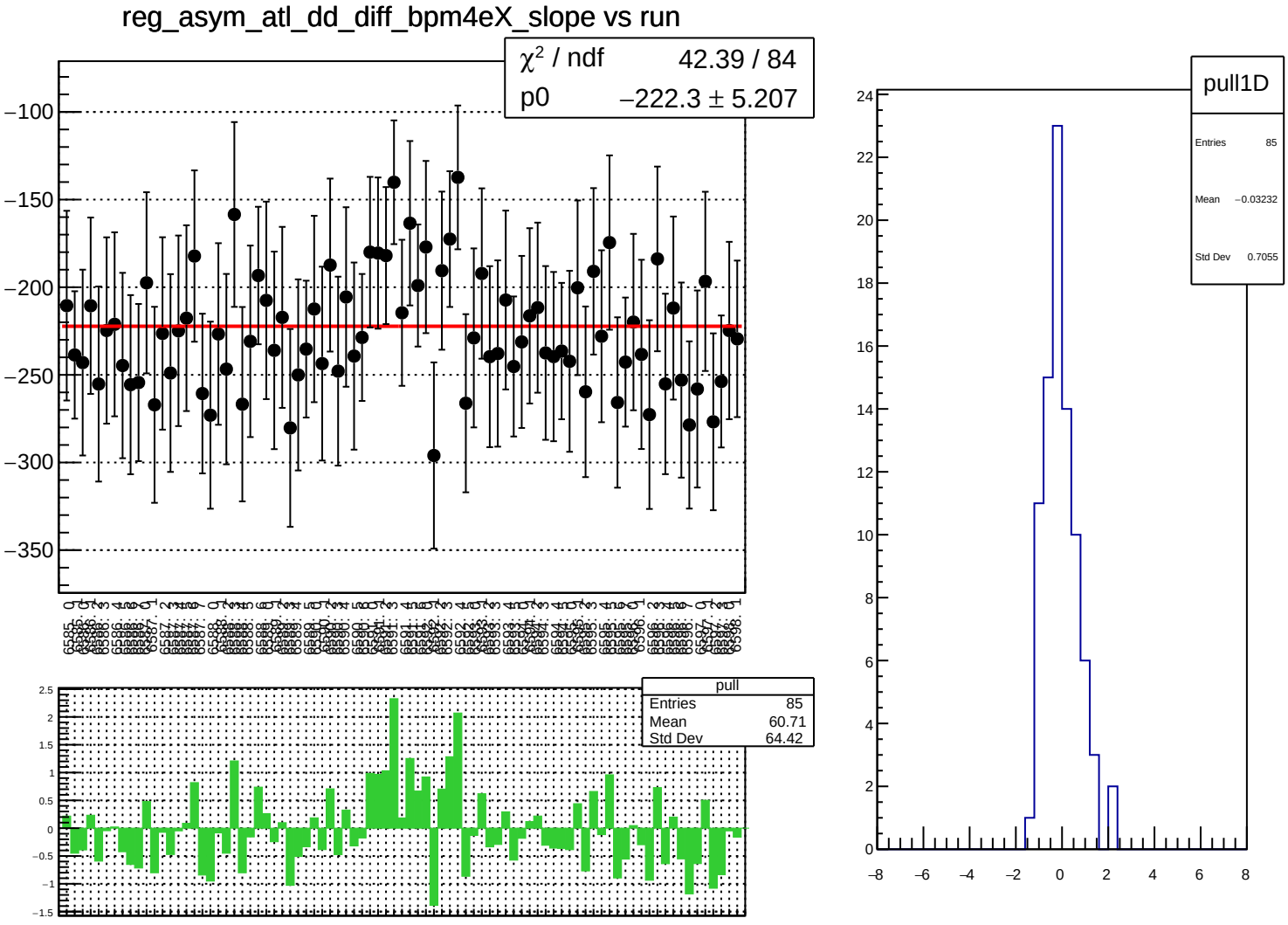

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 110.7 / 84
p0 −195.7 ± 0.2599
−190
−195
−200
−205
−210
pull
Entries 85
Mean 145.5
Std Dev 108.8
pull1D
Entries 85
Mean −0.01046
Std Dev 1.141

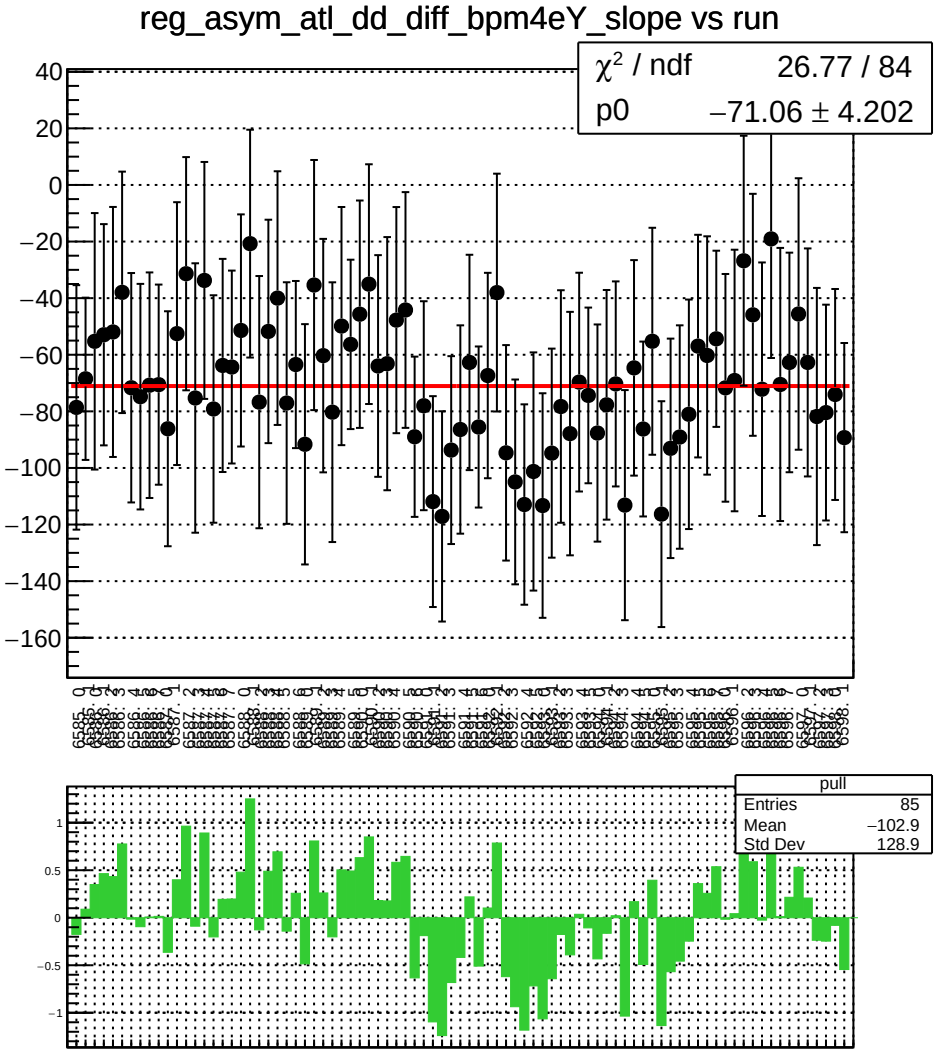

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 42.35 / 84
p0 251 ± 4.897
pull
Entries 85
Mean 58.15
Std Dev 66.57

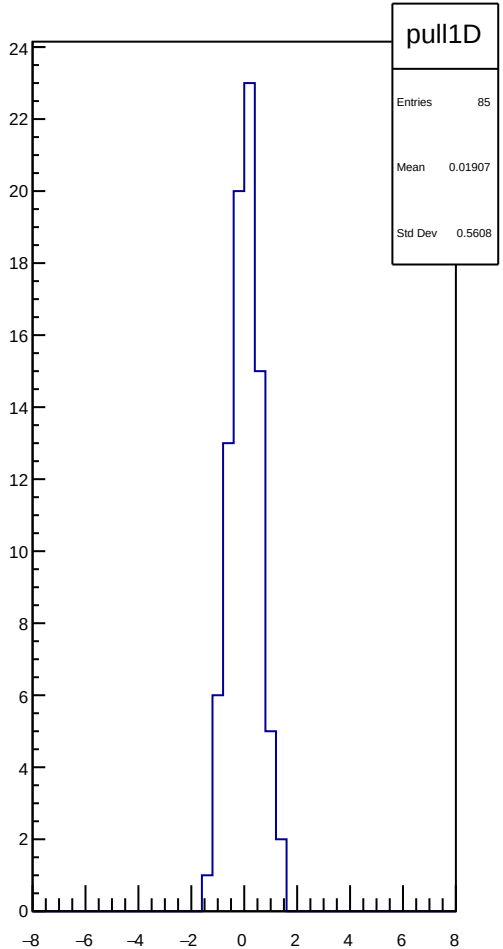

pull1D
Entries 85
Mean 0.03021
Std Dev 0.7052

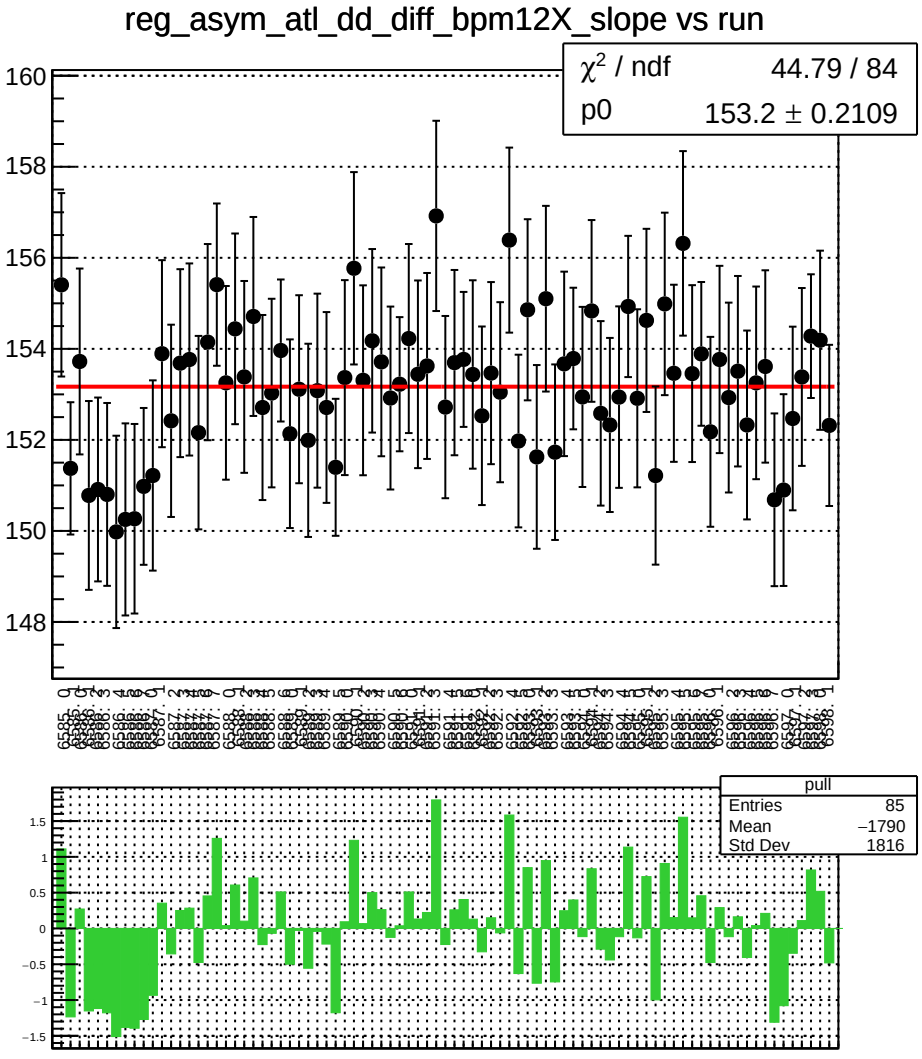

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.41 / 84
p0 −8.697 ± 3.491
pull
Entries 85
Mean −121.8
Std Dev 146.1

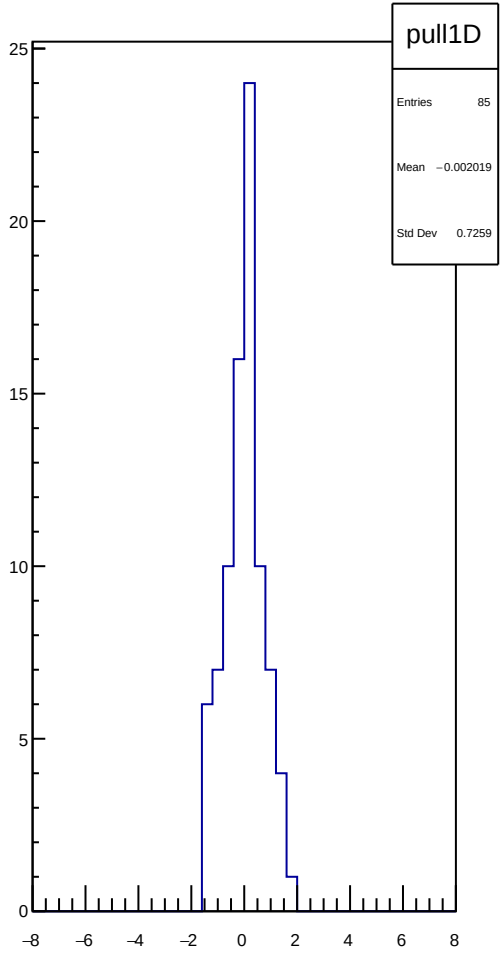

pull1D
Entries 85
Mean −0.01281
Std Dev 0.4898

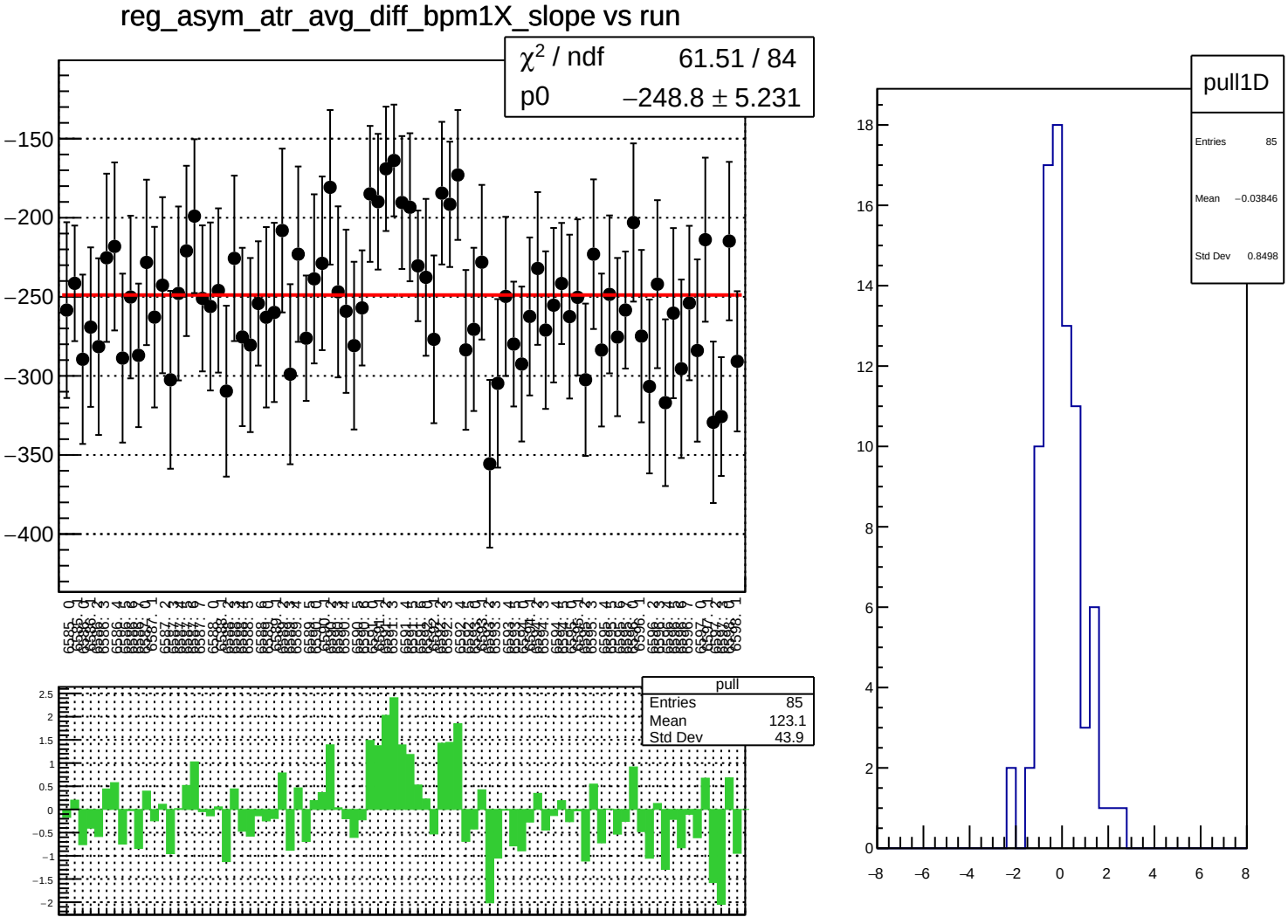

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.39 / 84
p0 −222.3 ± 5.207
pull
Entries 85
Mean 60.71
Std Dev 64.42
pull1D
Entries 85
Mean −0.03232
Std Dev 0.7055

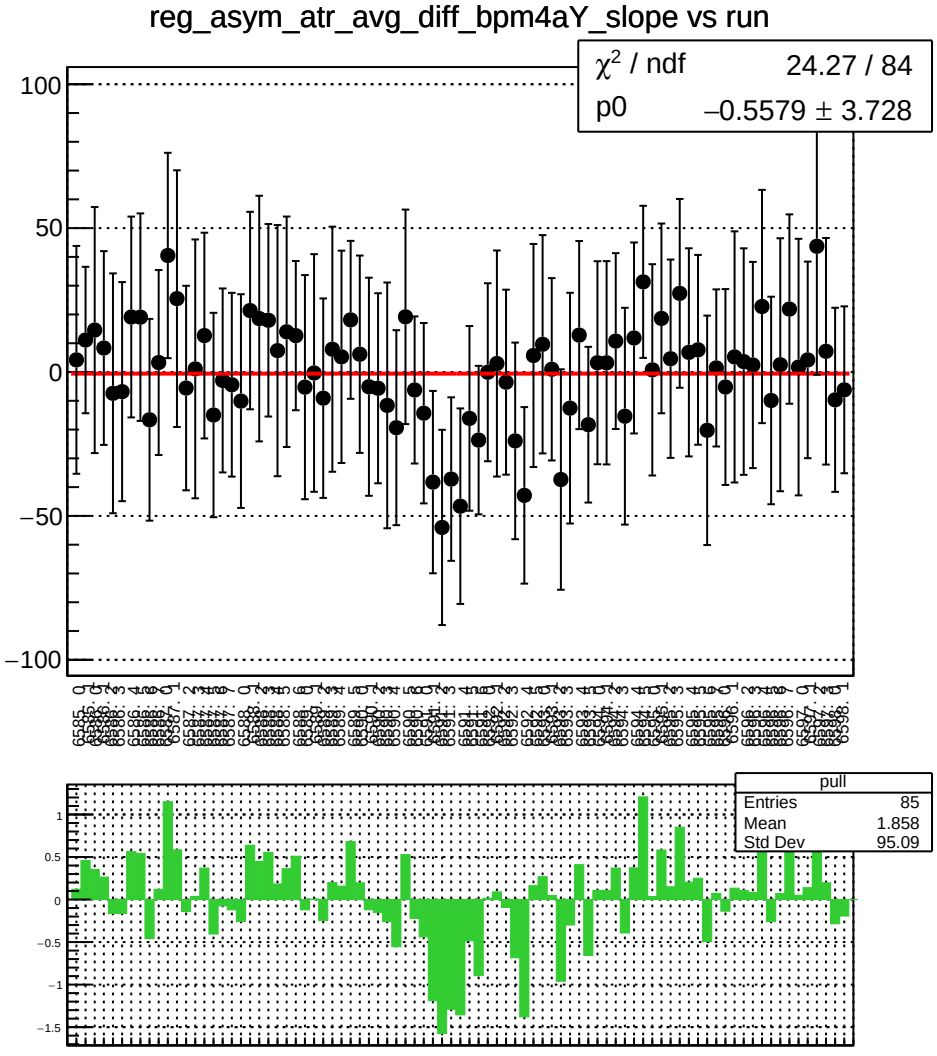

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 26.77 / 84
p0 −71.06 ± 4.202
pull
Entries 85
Mean −102.9
Std Dev 128.9

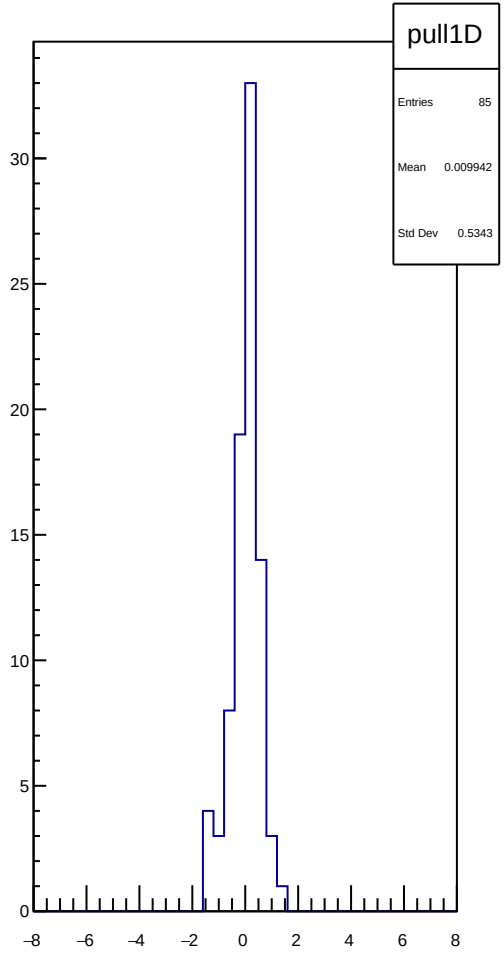

pull1D
Entries 85
Mean 0.01907
Std Dev 0.5608

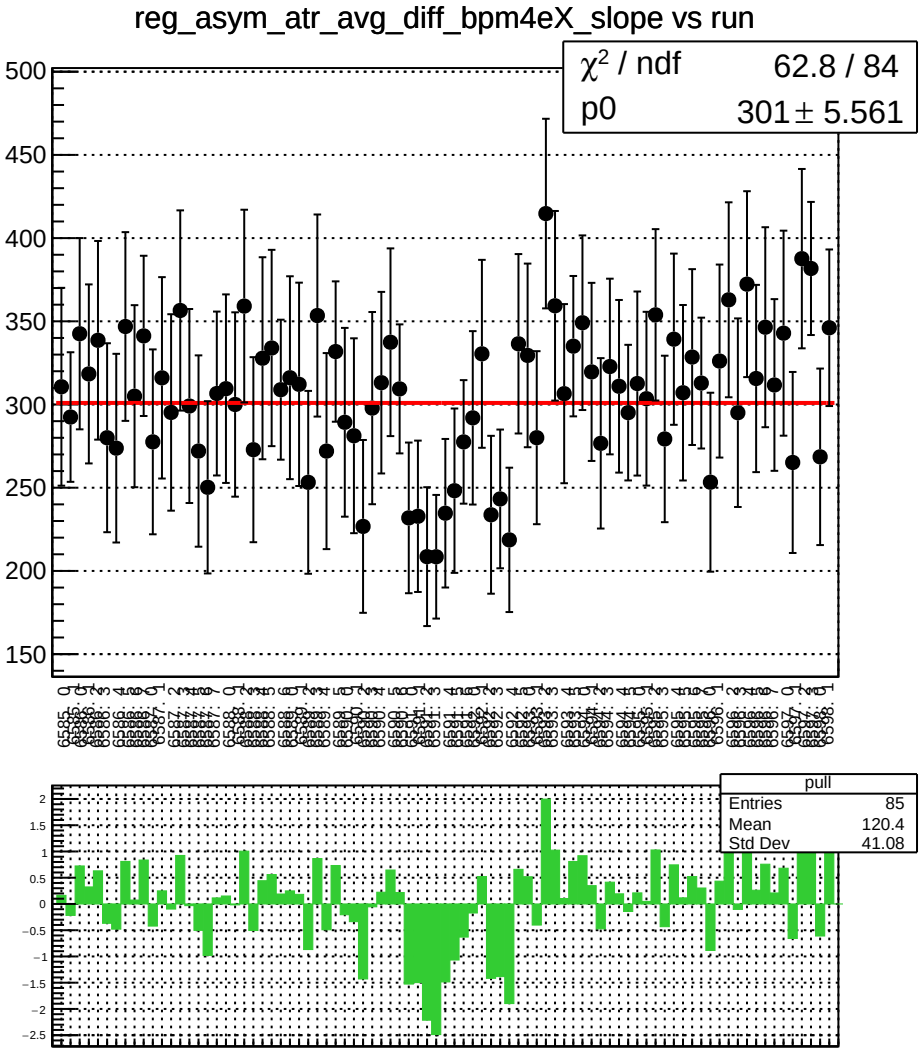

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 44.79 / 84
p0 153.2 ± 0.2109
pull
Entries 85
Mean −1790
Std Dev 1816

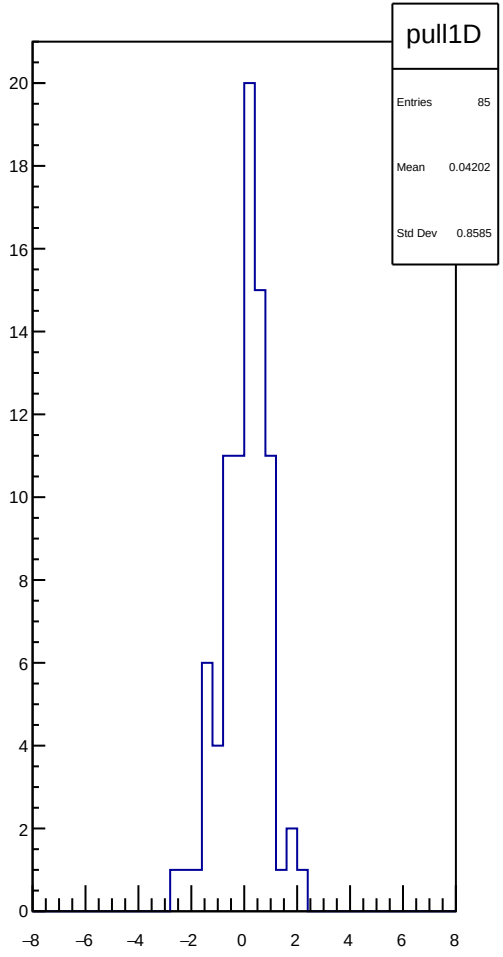

pull1D
Entries 85
Mean −0.002019
Std Dev 0.7259

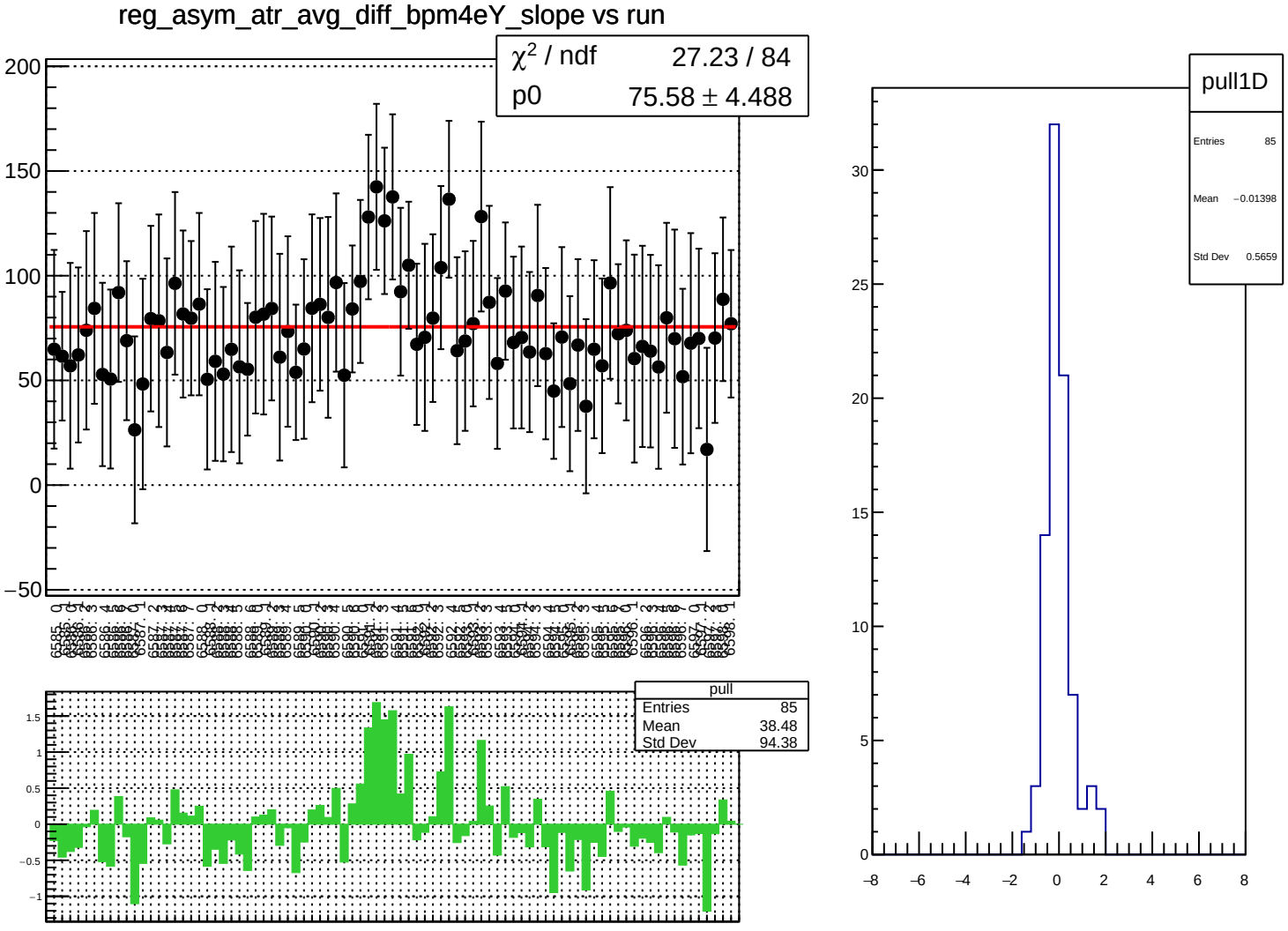

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 61.51 / 84
p0 −248.8 ± 5.231
pull
Entries 85
Mean 123.1
Std Dev 43.9
pull1D
Entries 85
Mean −0.03846
Std Dev 0.8498

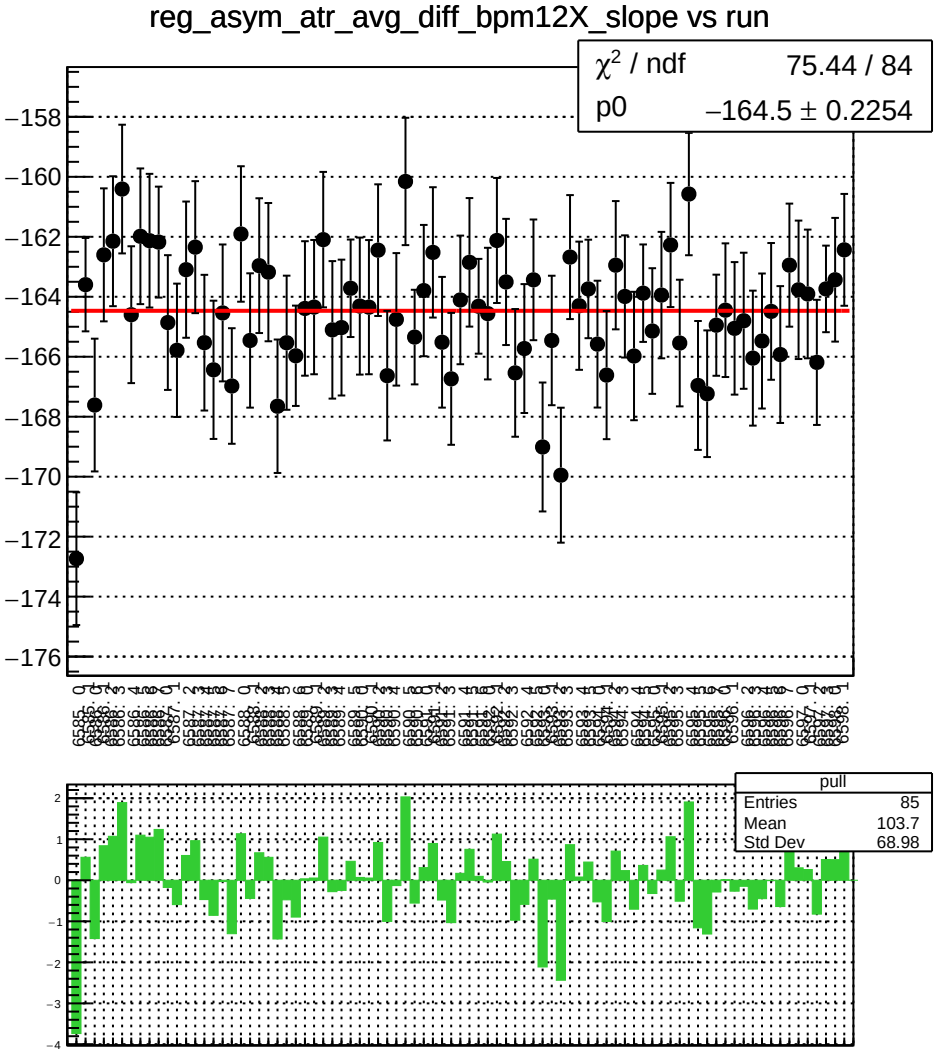

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.27 / 84
p0 −0.5579 ± 3.728
pull
Entries 85
Mean 1.858
Std Dev 95.09

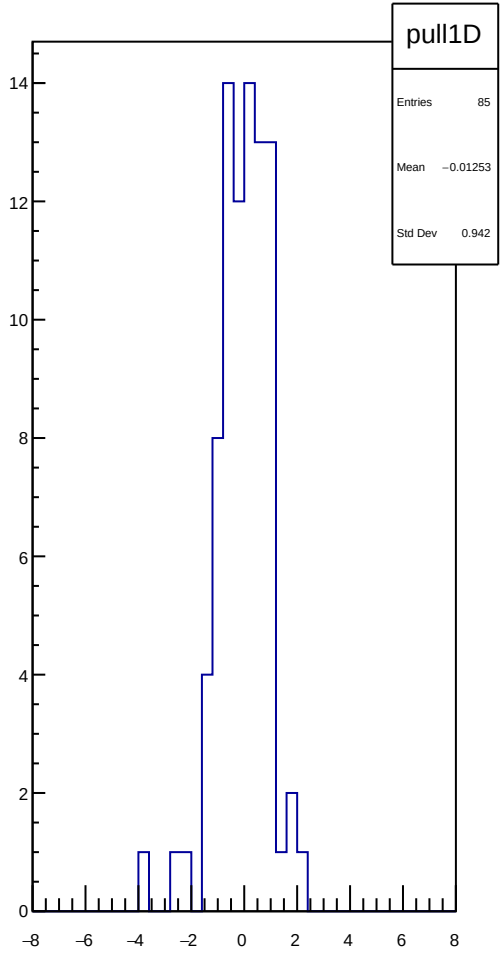

pull1D
Entries 85
Mean 0.009942
Std Dev 0.5343

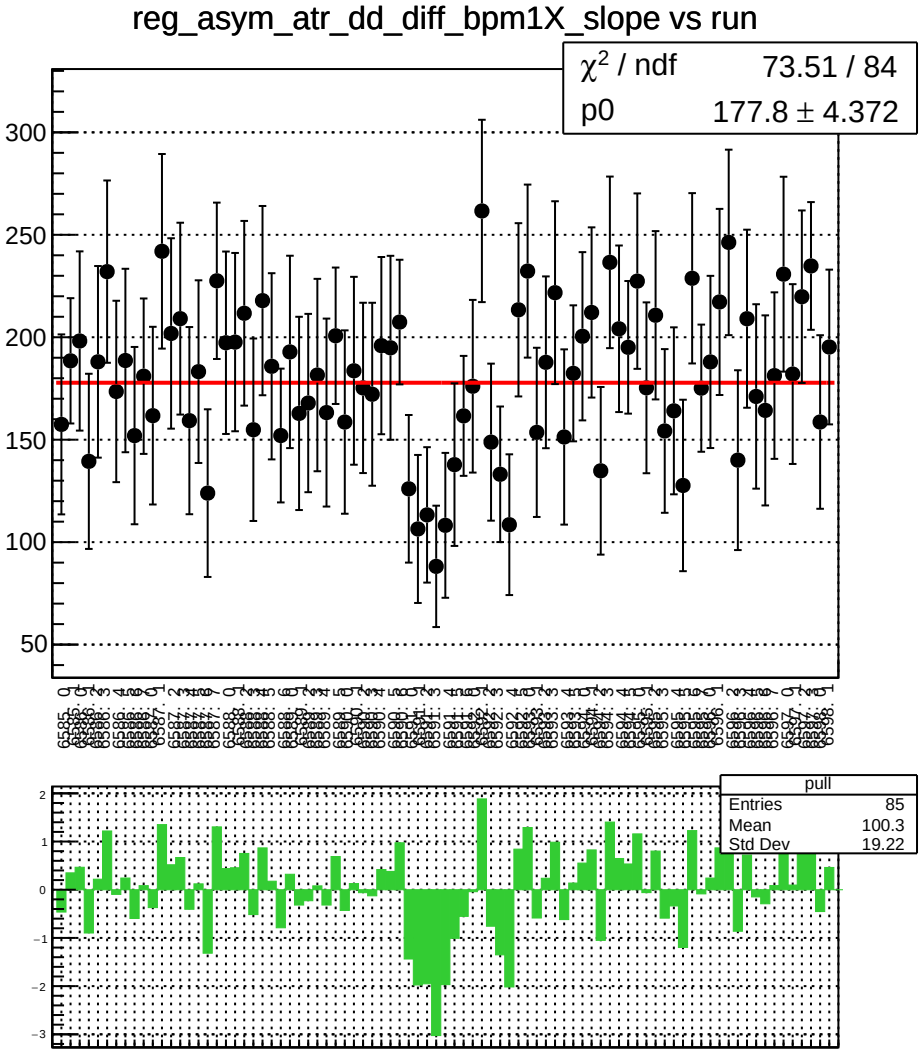

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 62.8 / 84
p0 301 ± 5.561
pull
Entries 85
Mean 120.4
Std Dev 41.08

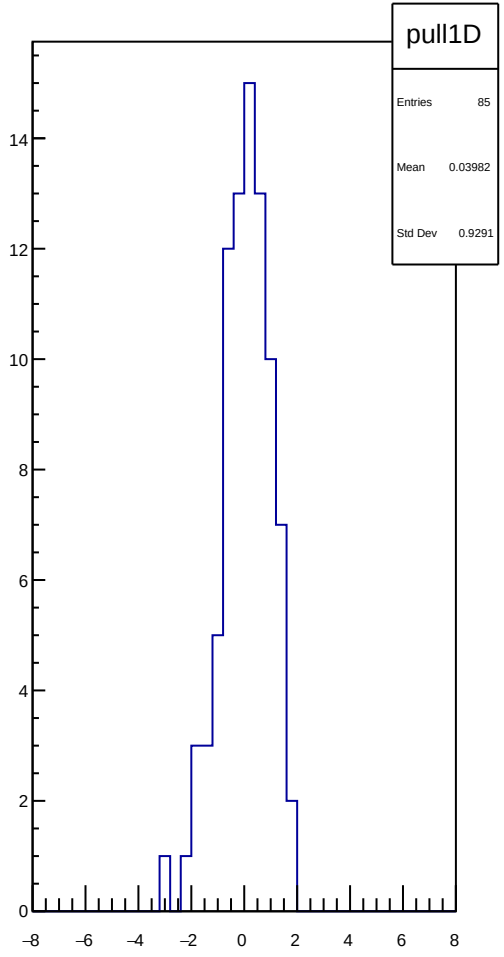

pull1D
Entries 85
Mean 0.04202
Std Dev 0.8585

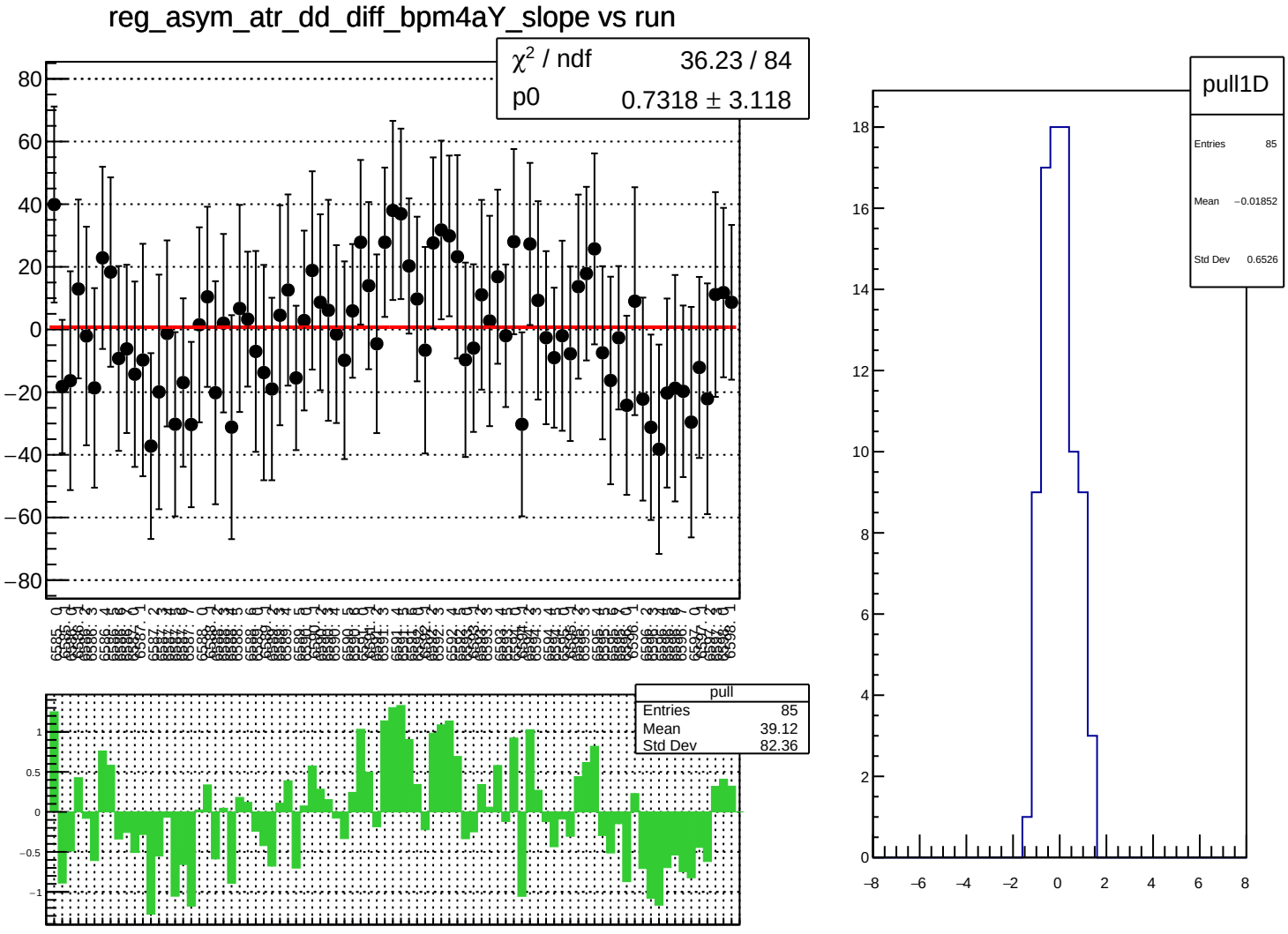

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 27.23 / 84
p0 75.58 ± 4.488
pull
Entries 85
Mean 38.48
Std Dev 94.38
pull1D
Entries 85
Mean −0.01398
Std Dev 0.5659

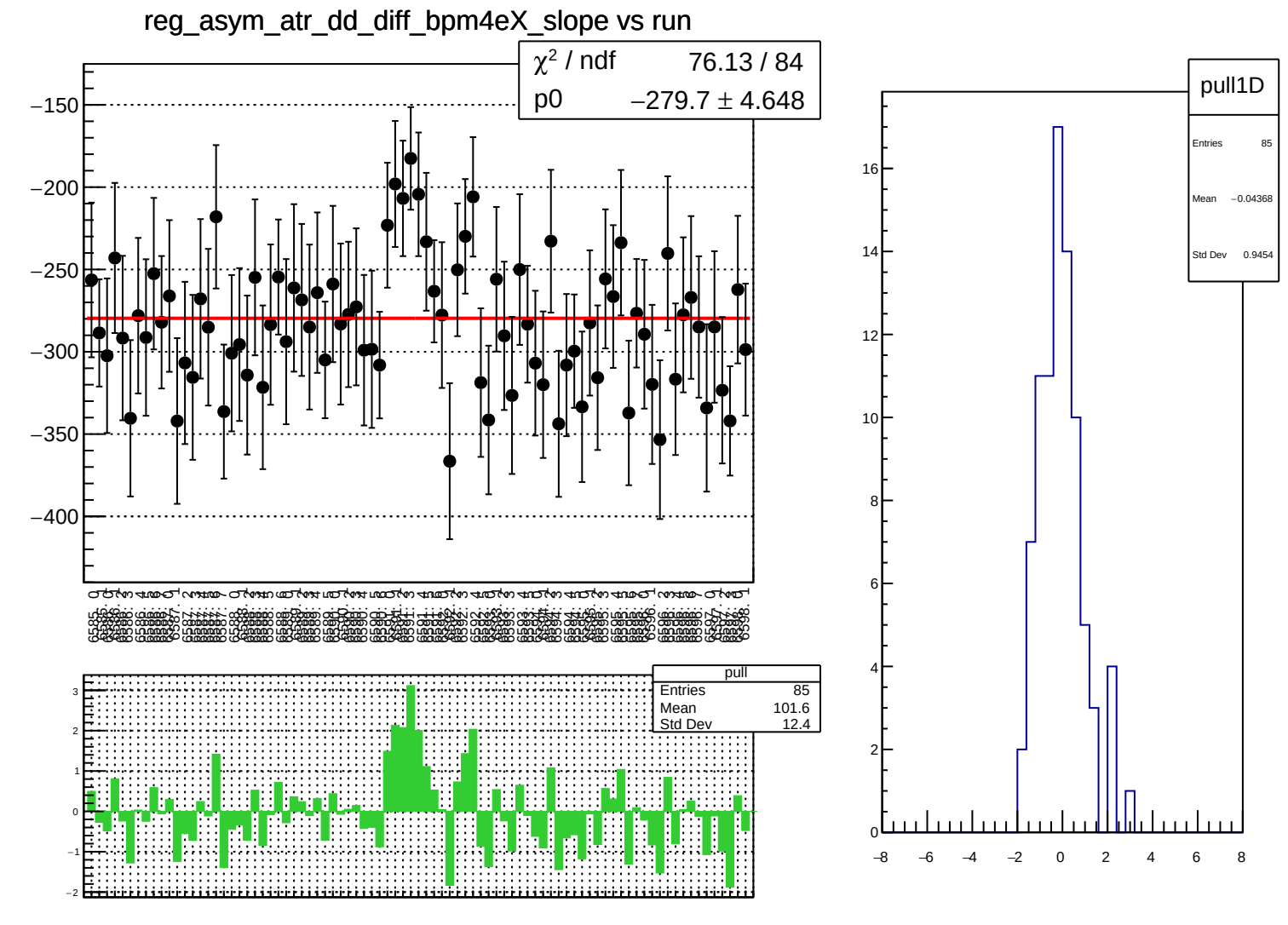

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ^2 / ndf 75.44 / 84
p0 −164.5 ± 0.2254
pull
Entries 85
Mean 103.7
Std Dev 68.98

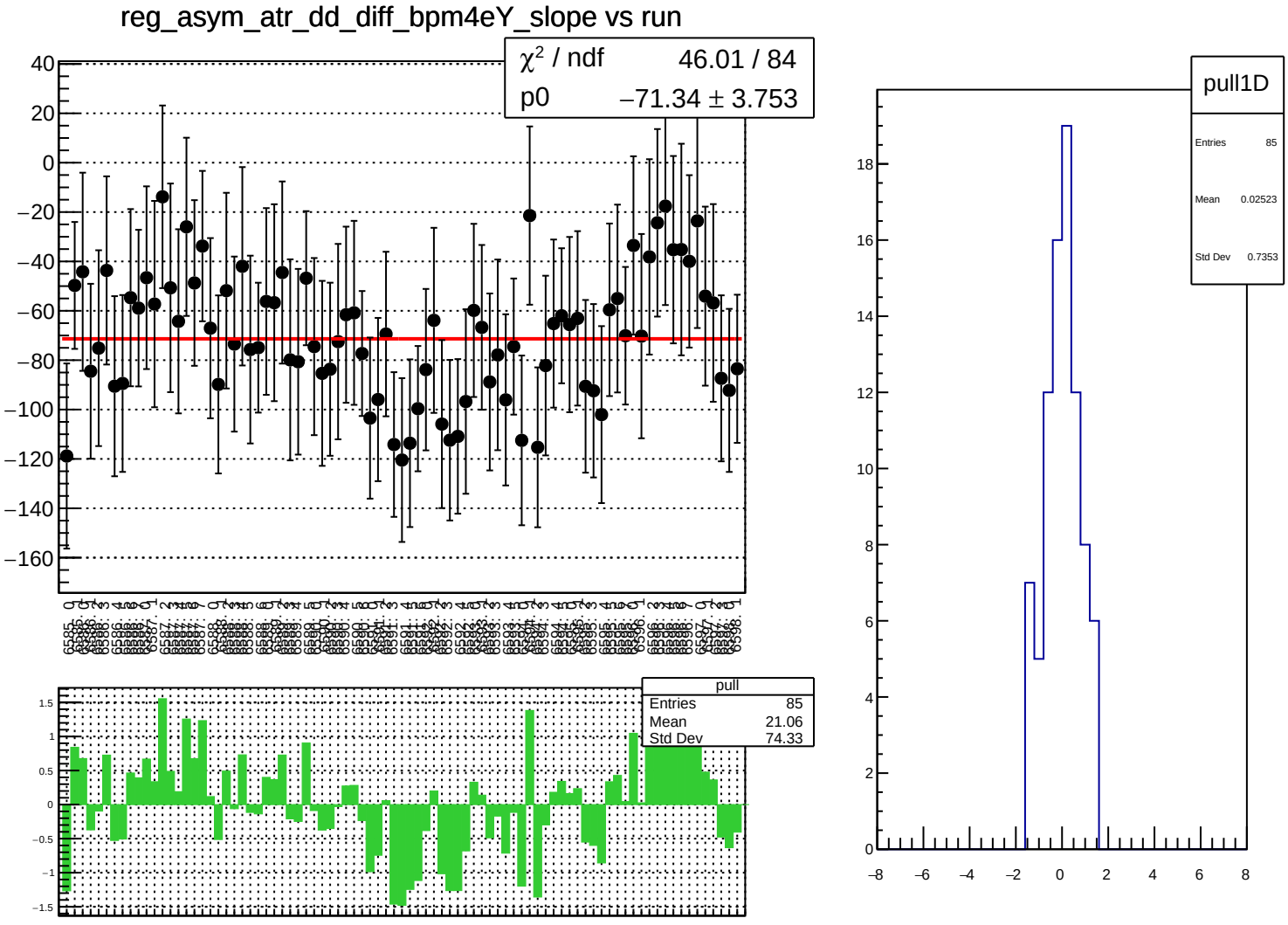

pull1D
Entries 85
Mean −0.01253
Std Dev 0.942

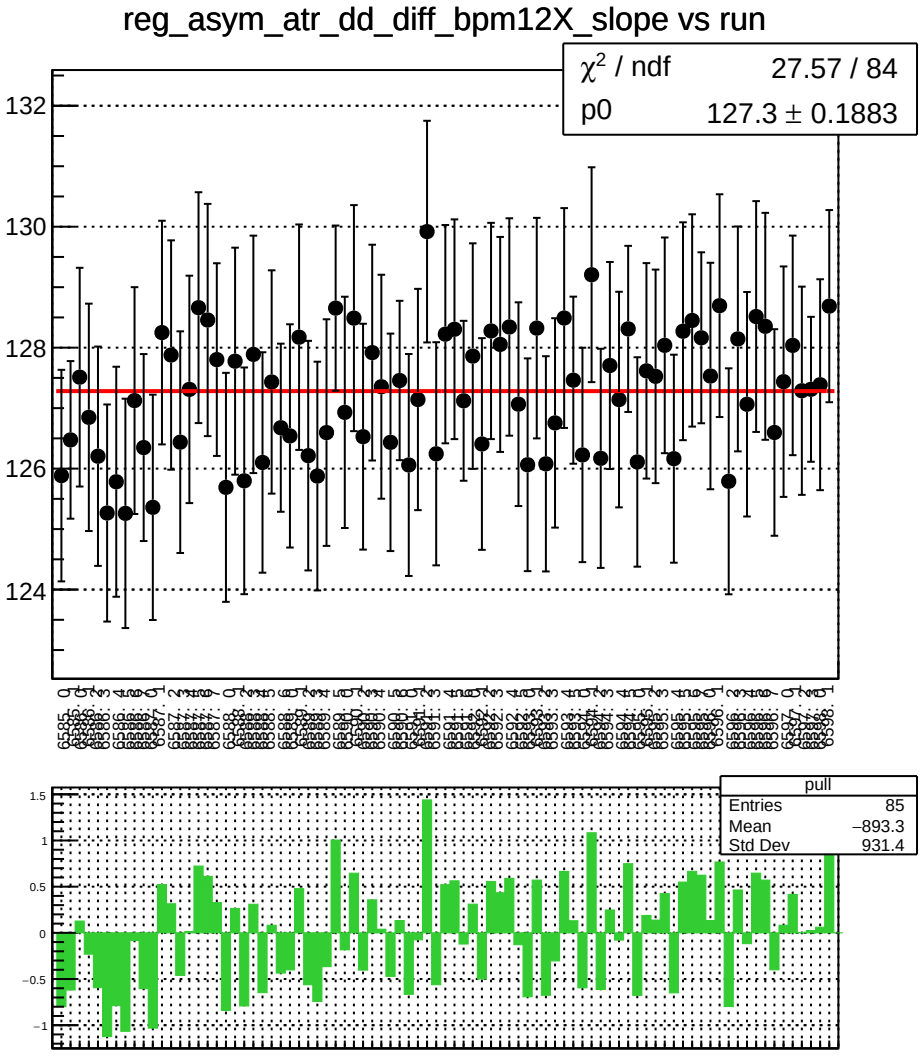

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ^2 / ndf 73.51 / 84
p0 177.8 ± 4.372
pull
Entries 85
Mean 100.3
Std Dev 19.22

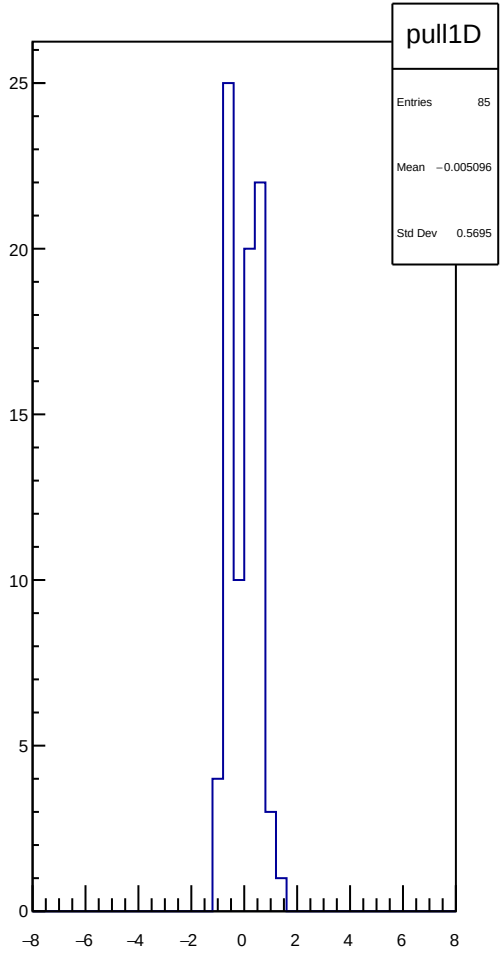

pull1D
Entries 85
Mean 0.03982
Std Dev 0.9291

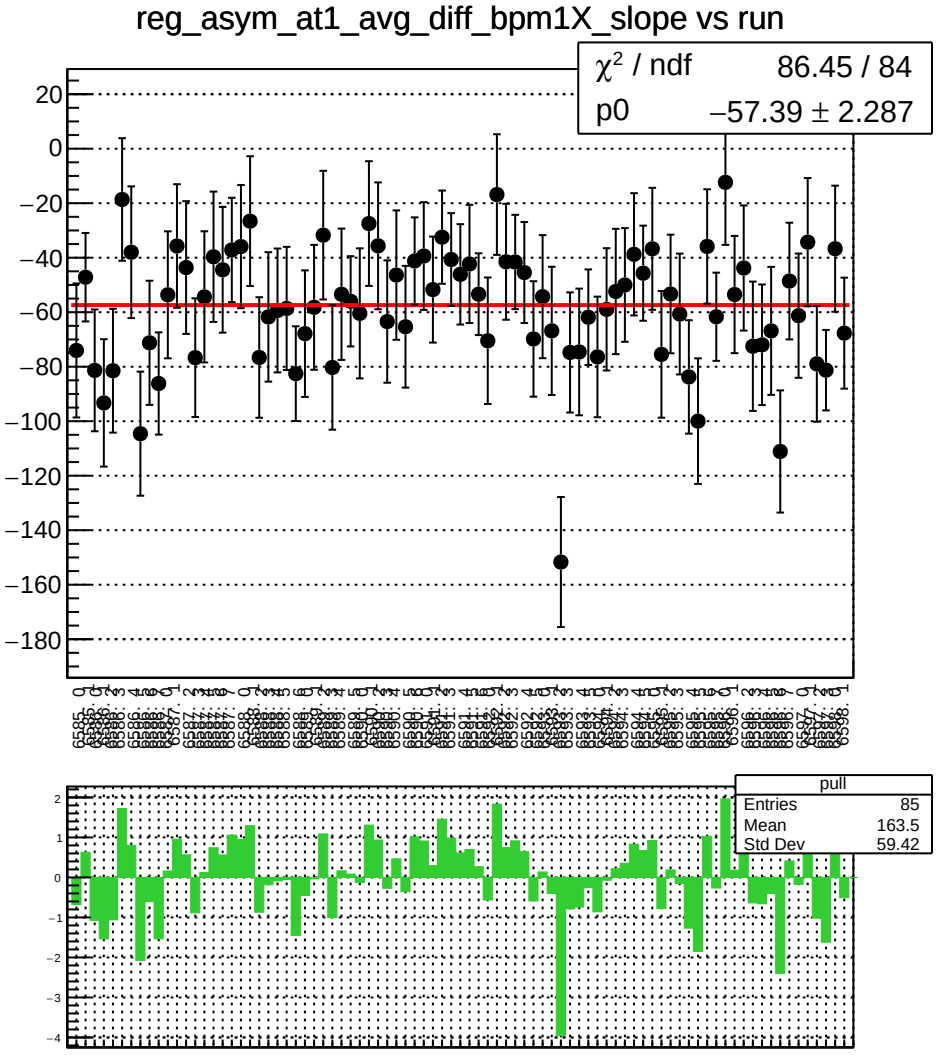

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.23 / 84
p0 0.7318 ± 3.118
pull
Entries 85
Mean 39.12
Std Dev 82.36
pull1D
Entries 85
Mean −0.01852
Std Dev 0.6526

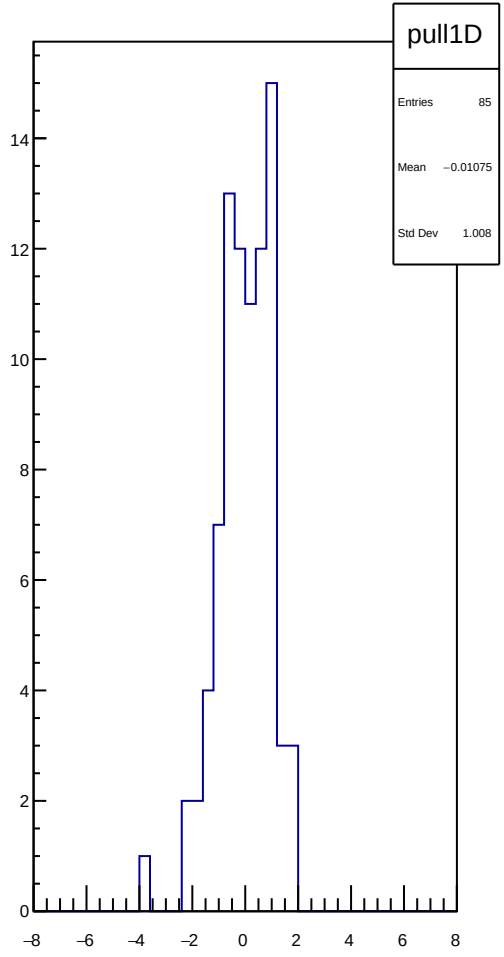

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.13 / 84
p0 −279.7 ± 4.648
pull
Entries 85
Mean 101.6
Std Dev 12.4
pull1D
Entries 85
Mean −0.04368
Std Dev 0.9454

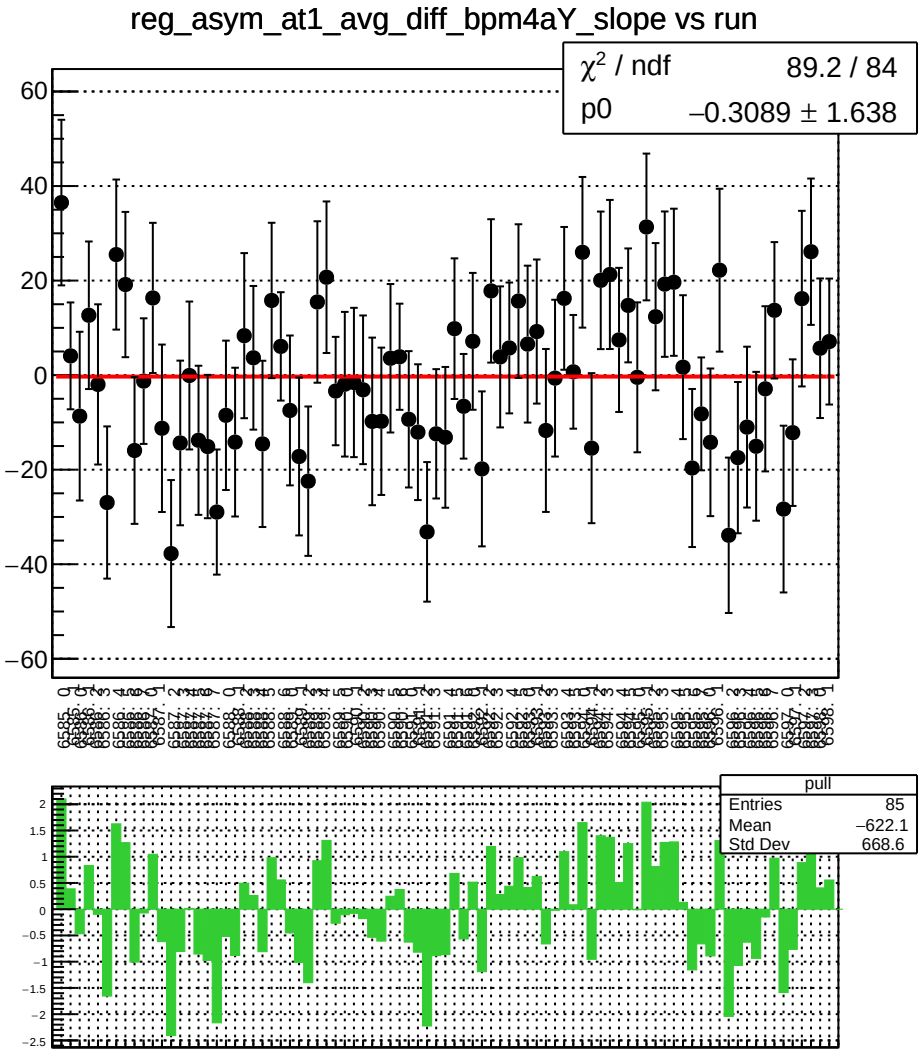

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.01 / 84
p0 −71.34 ± 3.753
pull
Entries 85
Mean 21.06
Std Dev 74.33
pull1D
Entries 85
Mean 0.02523
Std Dev 0.7353

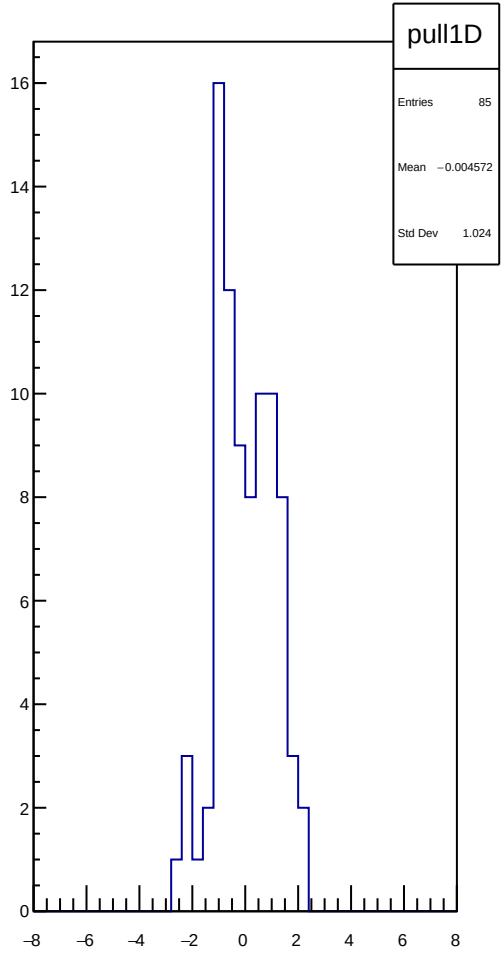

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 27.57 / 84
p0 127.3 ± 0.1883
132
130
128
126
124
pull
Entries 85
Mean −893.3
Std Dev 931.4
1.5
1
0.5
0
−0.5
−1

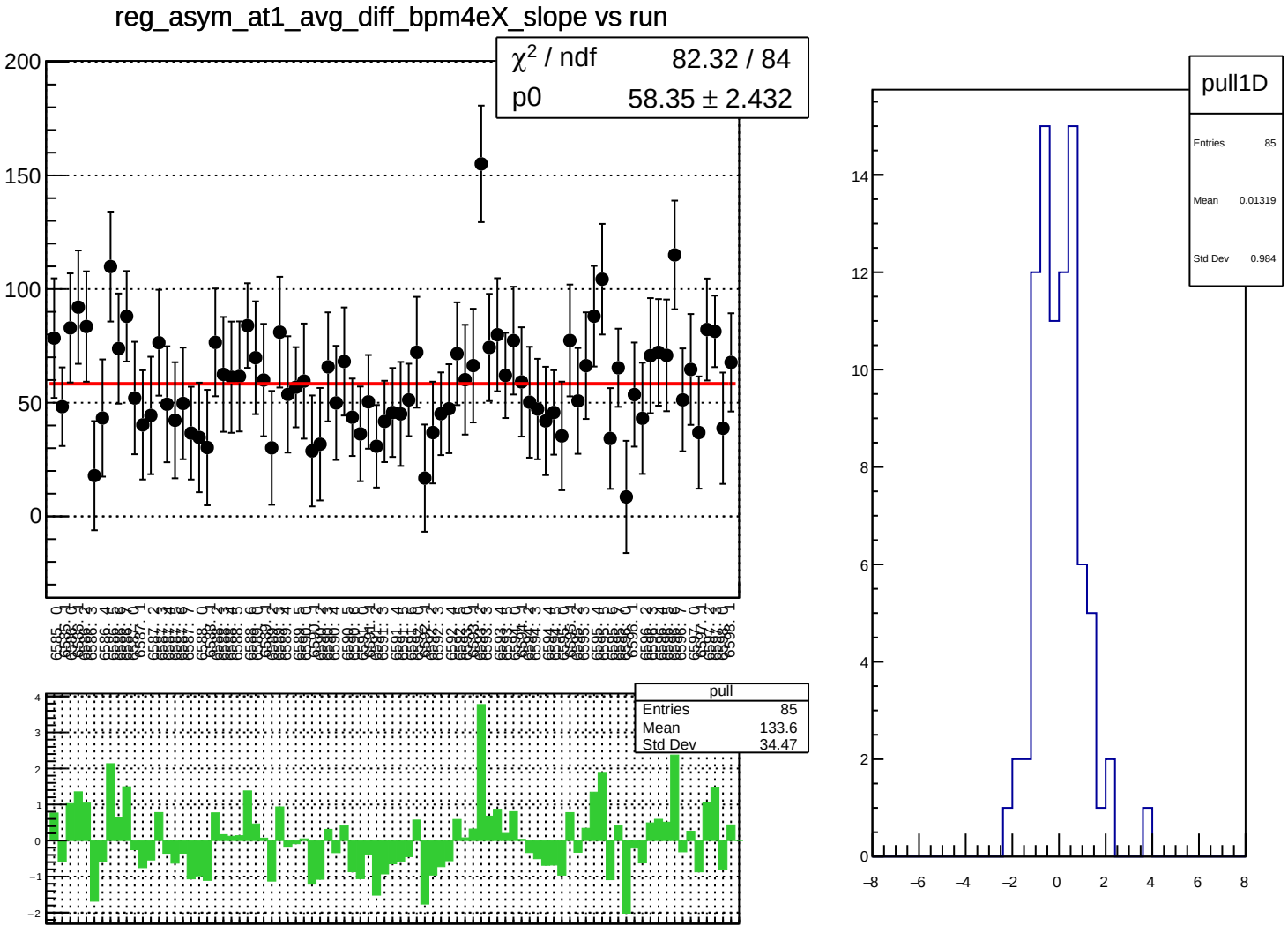

pull1D
Entries 85
Mean −0.005096
Std Dev 0.5695
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

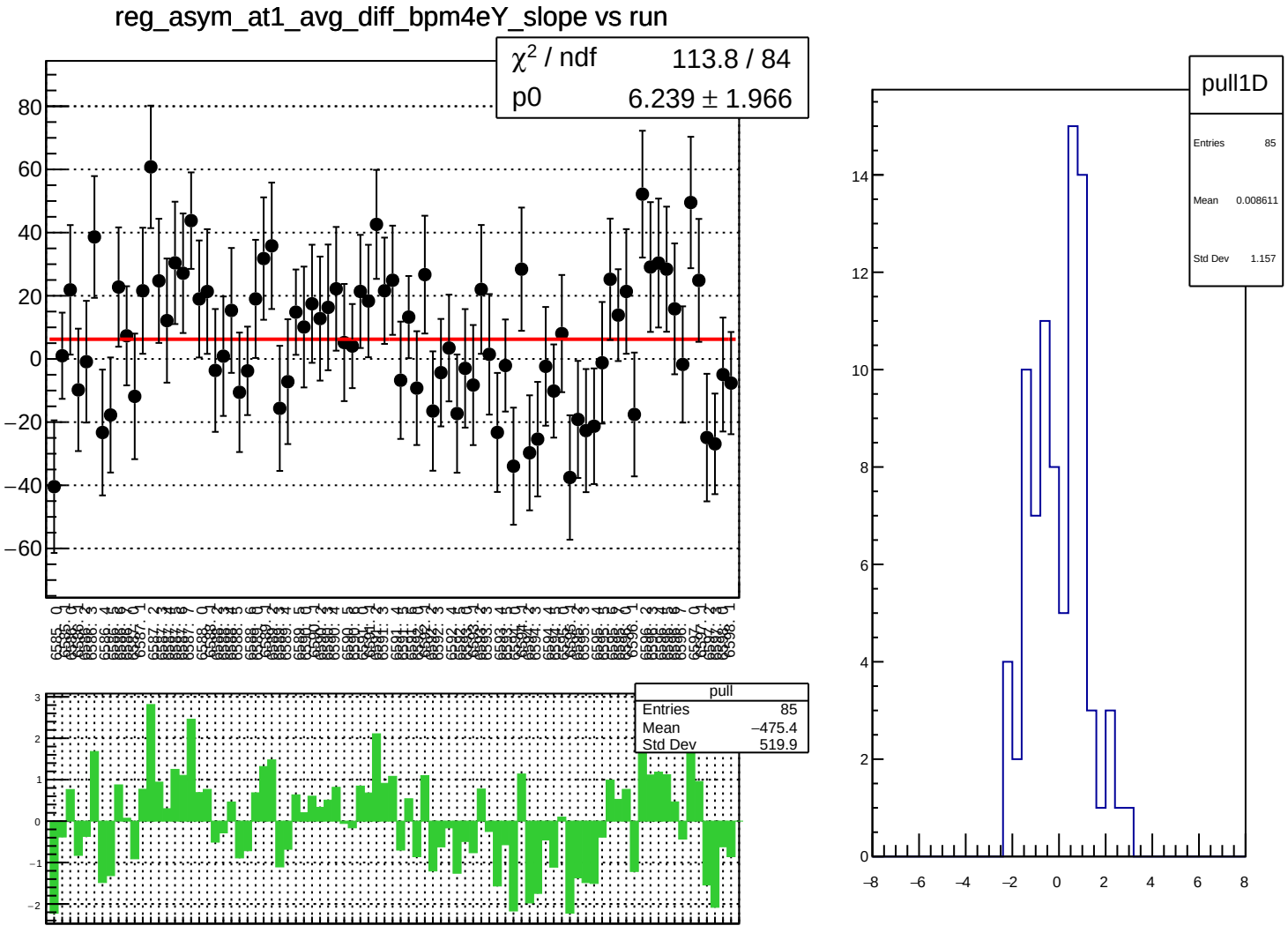

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 86.45 / 84
p0 −57.39 ± 2.287
pull
Entries 85
Mean 163.5
Std Dev 59.42

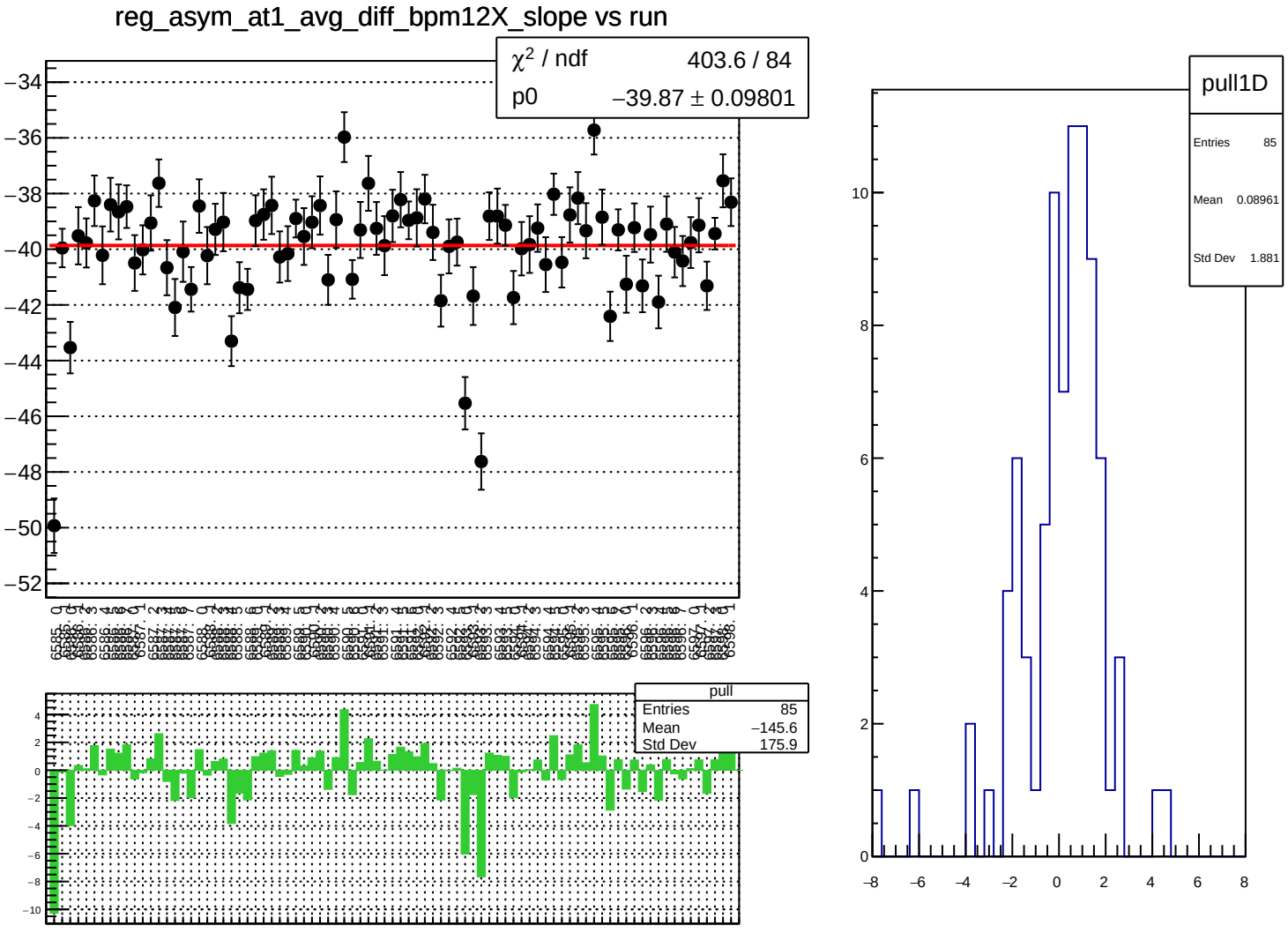

pull1D
Entries 85
Mean −0.01075
Std Dev 1.008

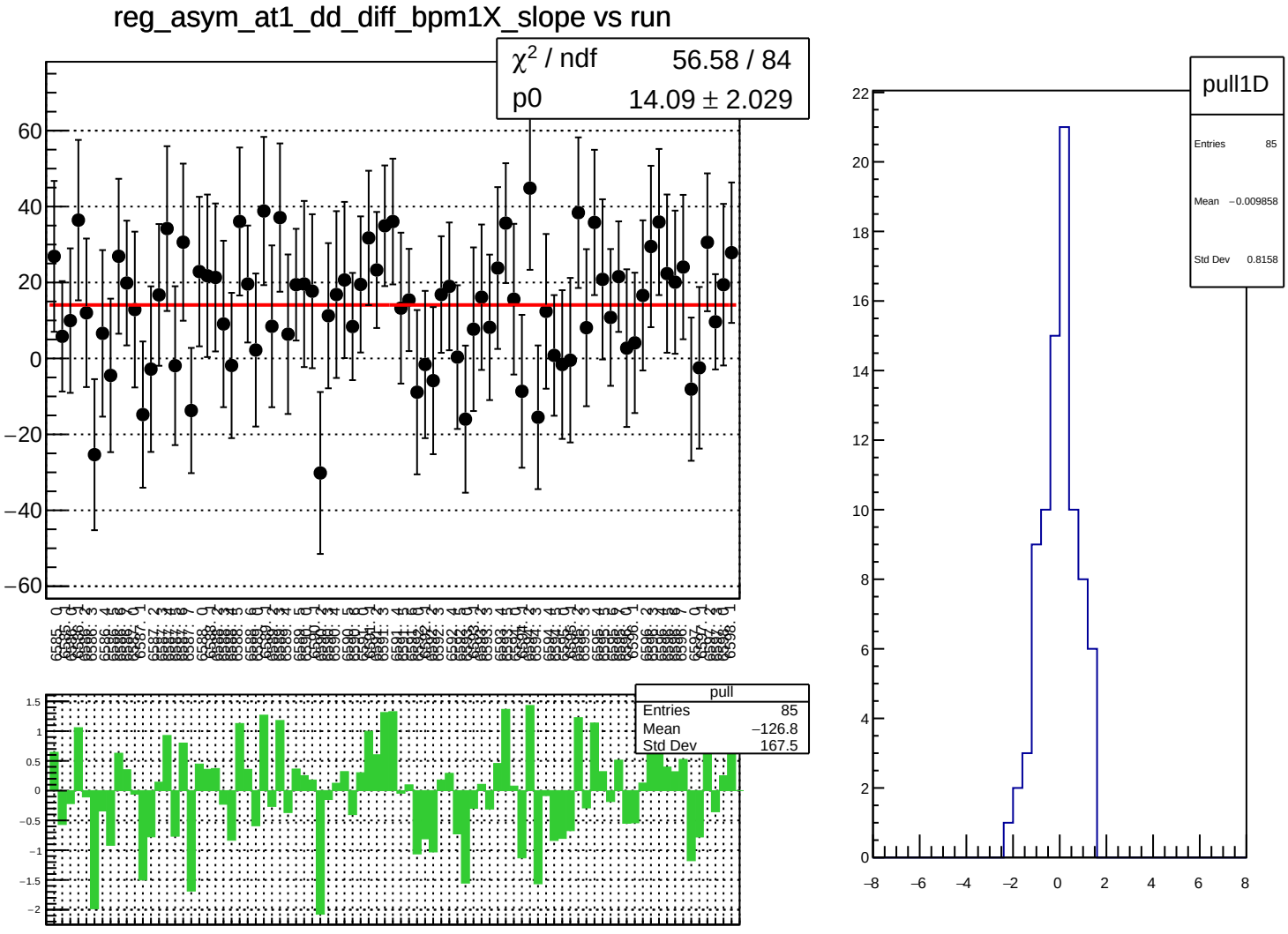

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 89.2 / 84
p0 −0.3089 ± 1.638
pull
Entries 85
Mean −622.1
Std Dev 668.6

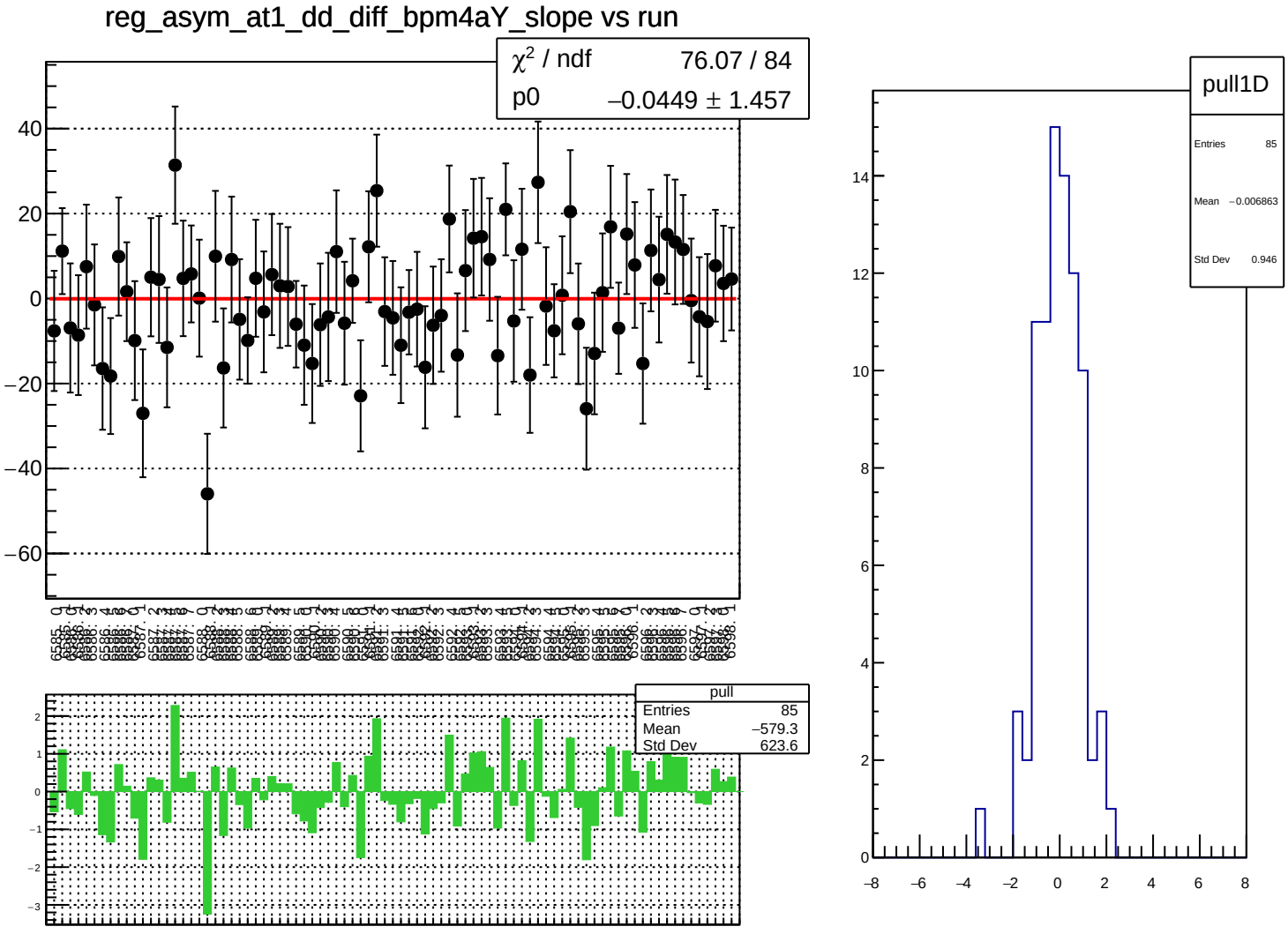

pull1D
Entries 85
Mean −0.004572
Std Dev 1.024

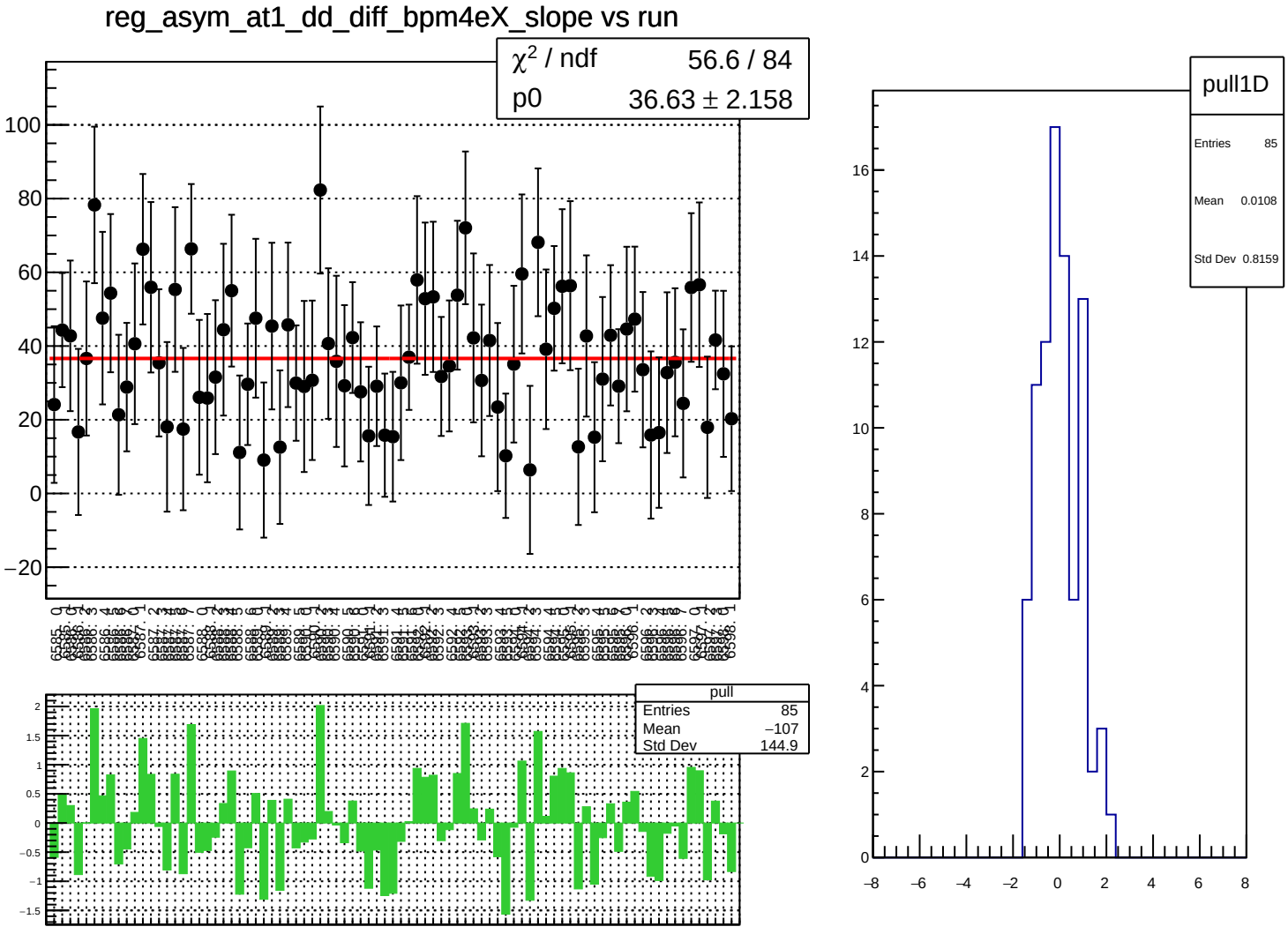

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.32 / 84
p0 58.35 ± 2.432
pull
Entries 85
Mean 133.6
Std Dev 34.47
pull1D
Entries 85
Mean 0.01319
Std Dev 0.984

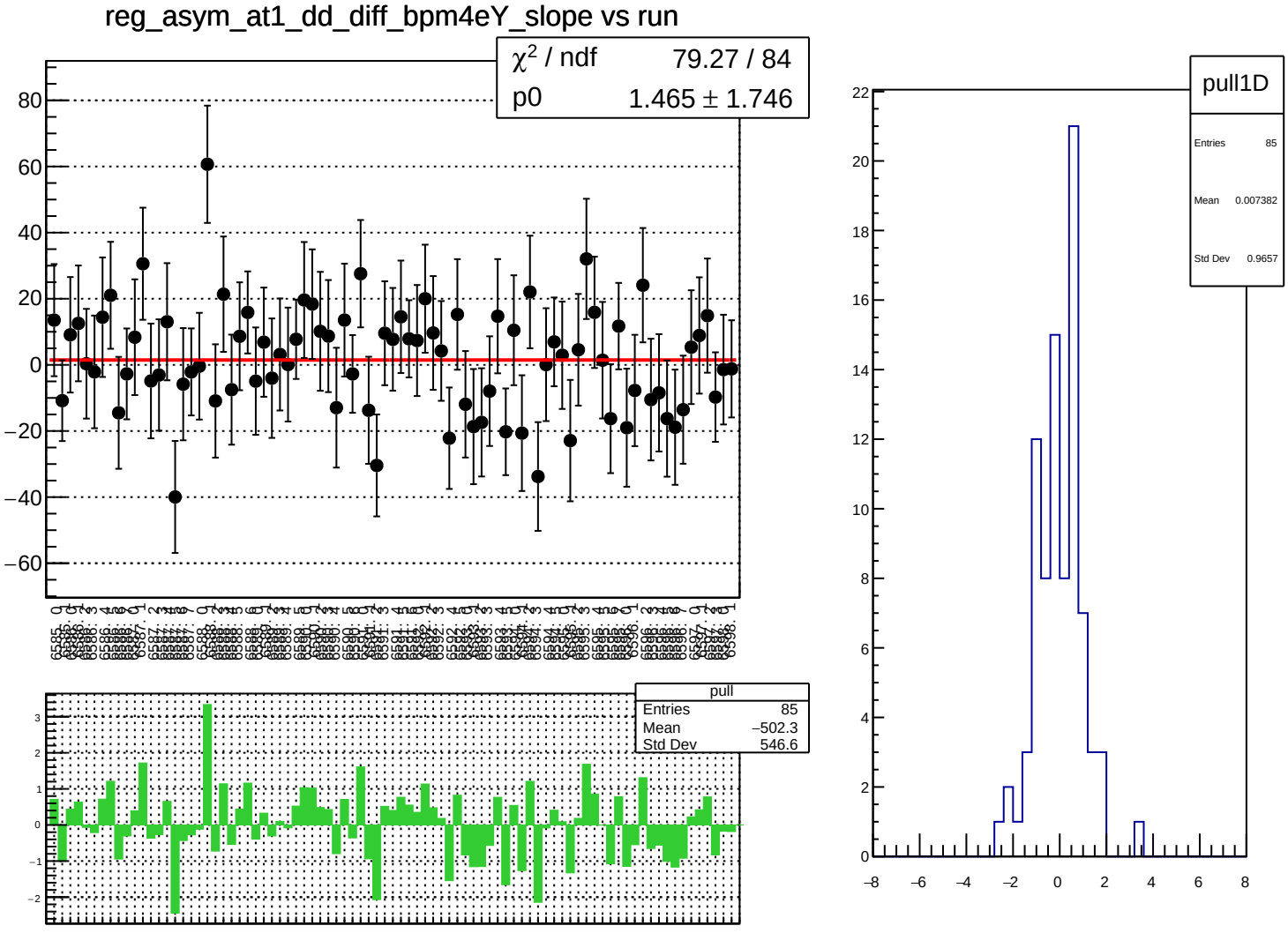

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 113.8 / 84
p0 6.239 ± 1.966
pull
Entries 85
Mean −475.4
Std Dev 519.9
pull1D
Entries 85
Mean 0.008611
Std Dev 1.157

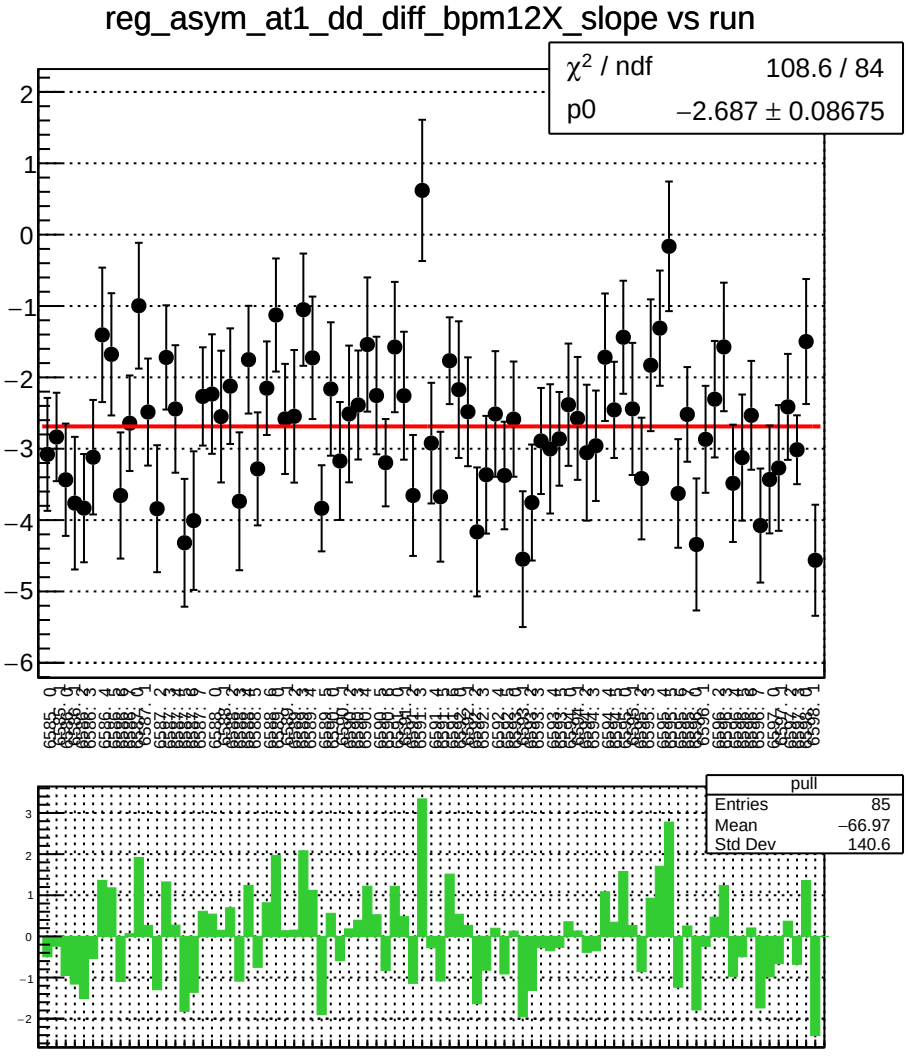

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 403.6 / 84
p0 −39.87 ± 0.09801
pull
Entries 85
Mean −145.6
Std Dev 175.9
pull1D
Entries 85
Mean 0.08961
Std Dev 1.881

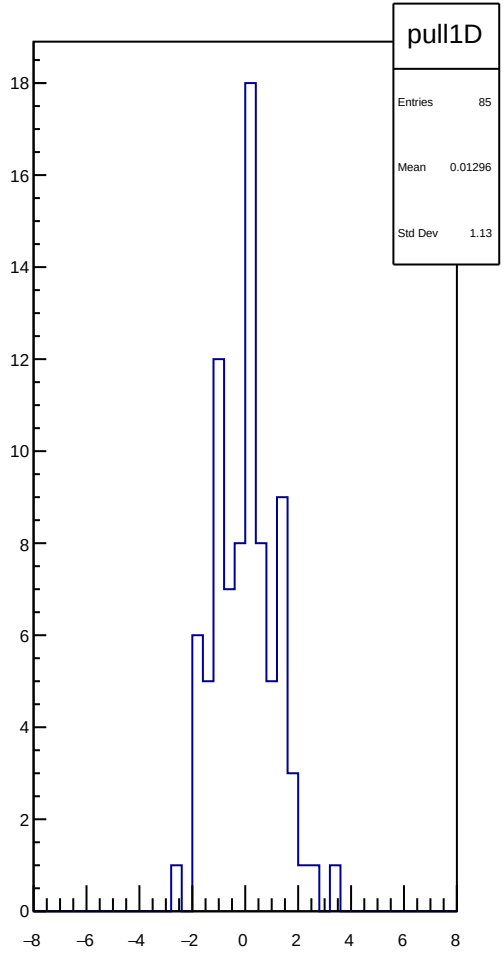

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 56.58 / 84
p0 14.09 ± 2.029
pull
Entries 85
Mean −126.8
Std Dev 167.5
pull1D
Entries 85
Mean −0.009858
Std Dev 0.8158

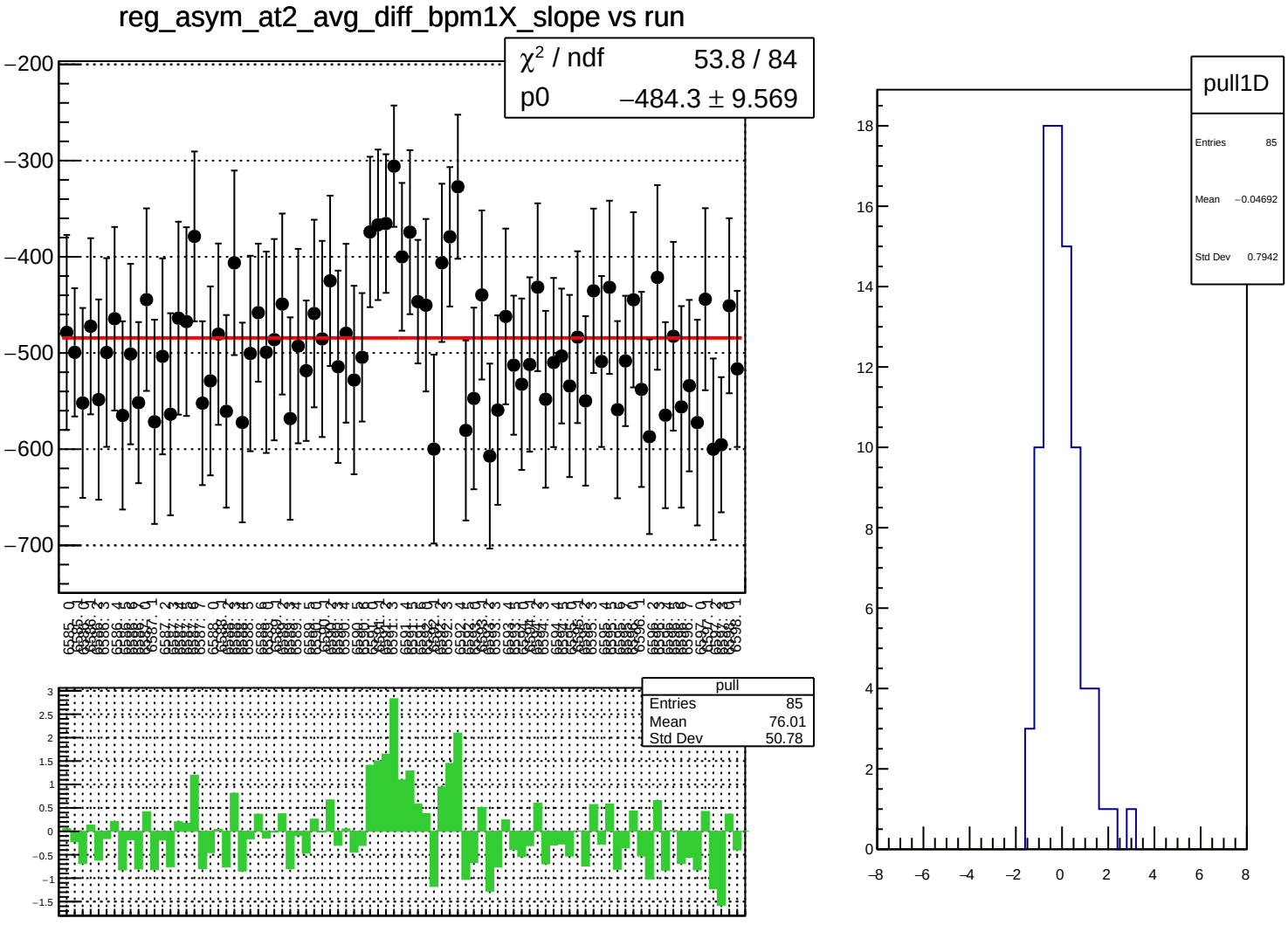

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 76.07 / 84
p0 −0.0449 ± 1.457
pull
Entries 85
Mean −579.3
Std Dev 623.6
pull1D
Entries 85
Mean −0.006863
Std Dev 0.946

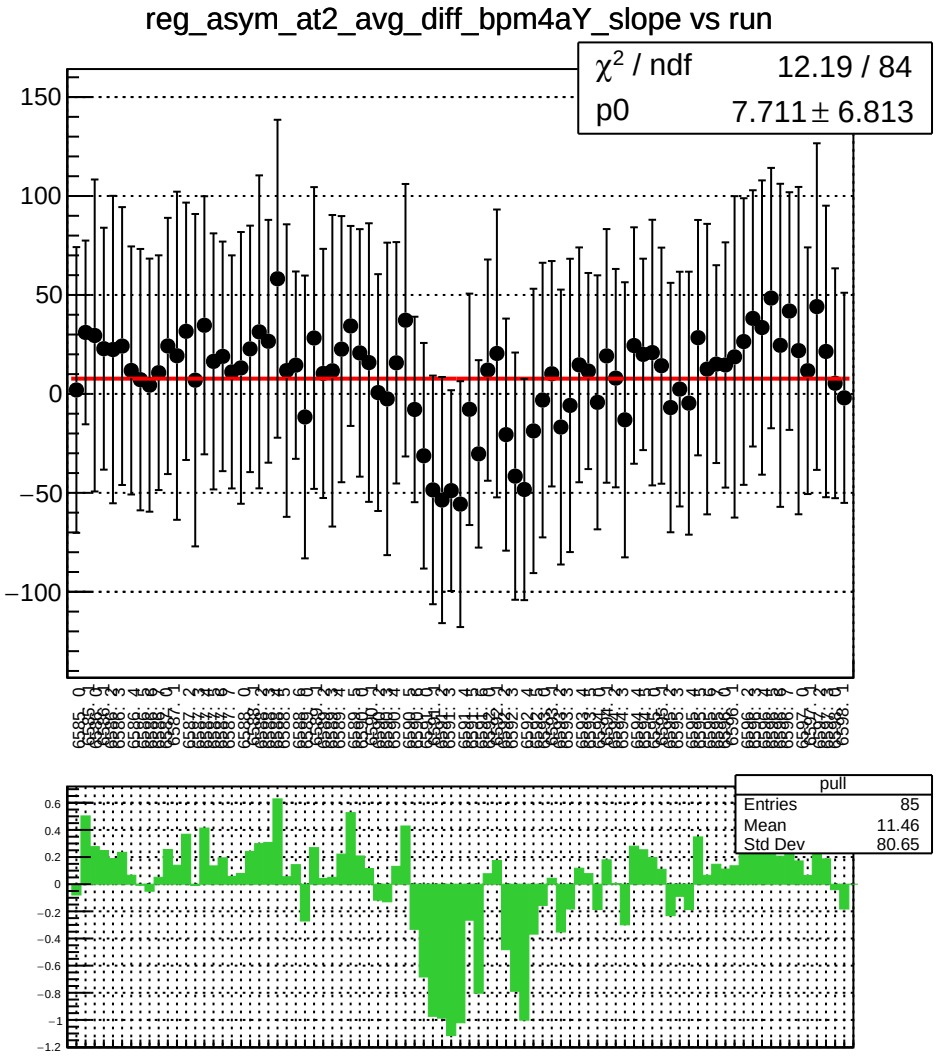

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 56.6 / 84
p0 36.63 ± 2.158
pull
Entries 85
Mean −107
Std Dev 144.9
pull1D
Entries 85
Mean 0.0108
Std Dev 0.8159

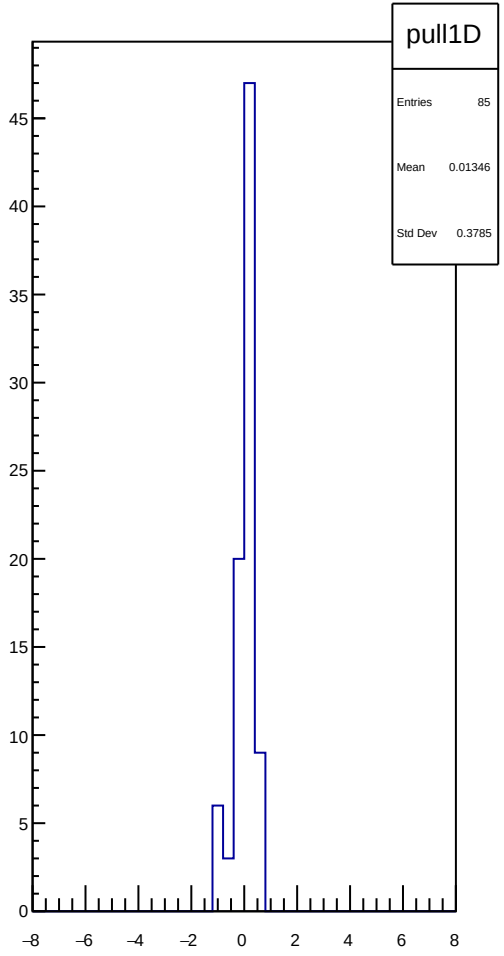

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.27 / 84
p0 1.465 ± 1.746
pull
Entries 85
Mean −502.3
Std Dev 546.6
pull1D
Entries 85
Mean 0.007382
Std Dev 0.9657

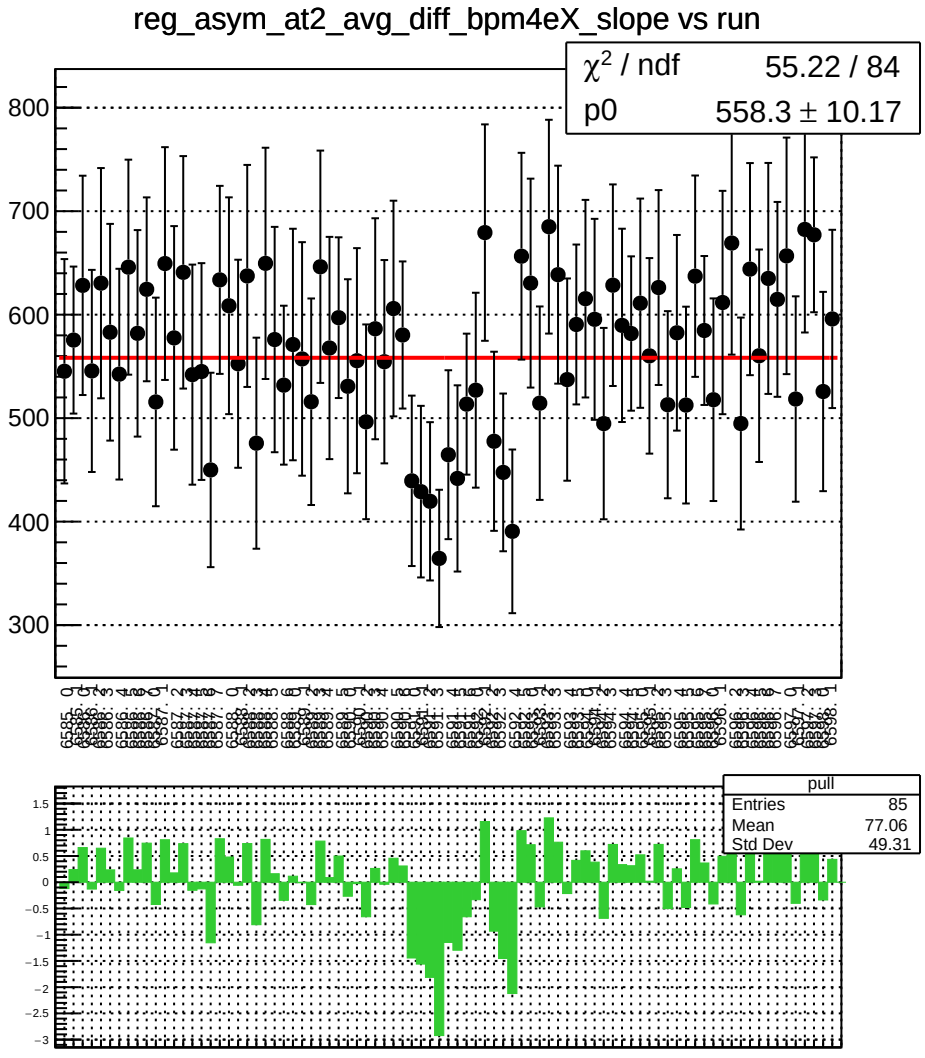

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 108.6 / 84
p0 −2.687 ± 0.08675
pull
Entries 85
Mean −66.97
Std Dev 140.6

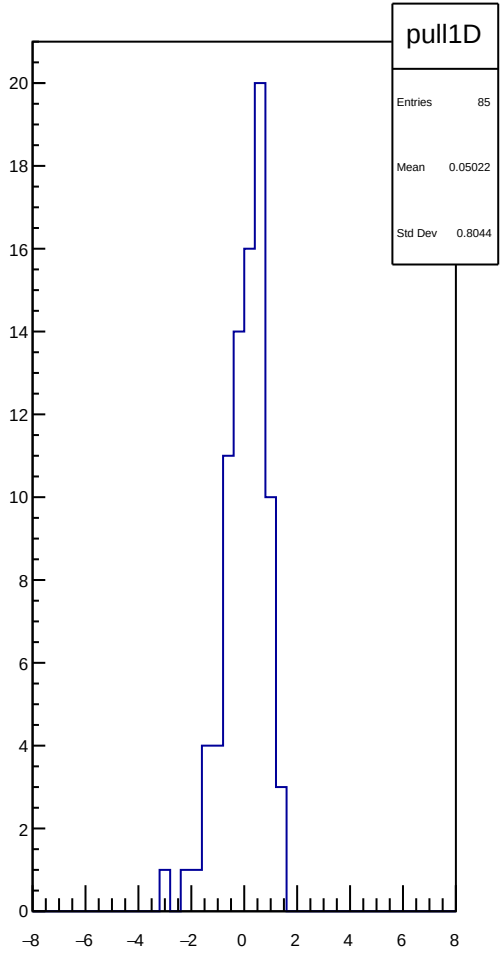

pull1D
Entries 85
Mean 0.01296
Std Dev 1.13

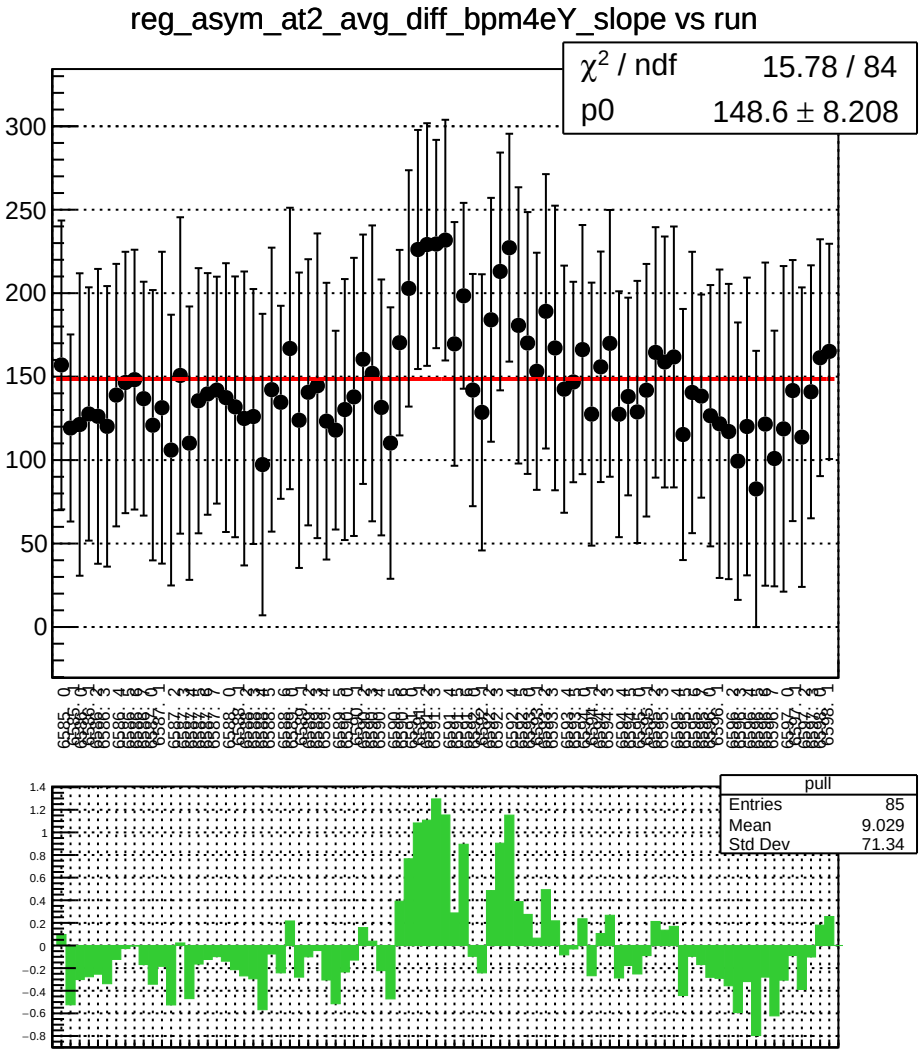

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ^2 / ndf 53.8 / 84
p0 −484.3 ± 9.569
pull
Entries 85
Mean 76.01
Std Dev 50.78
pull1D
Entries 85
Mean −0.04692
Std Dev 0.7942

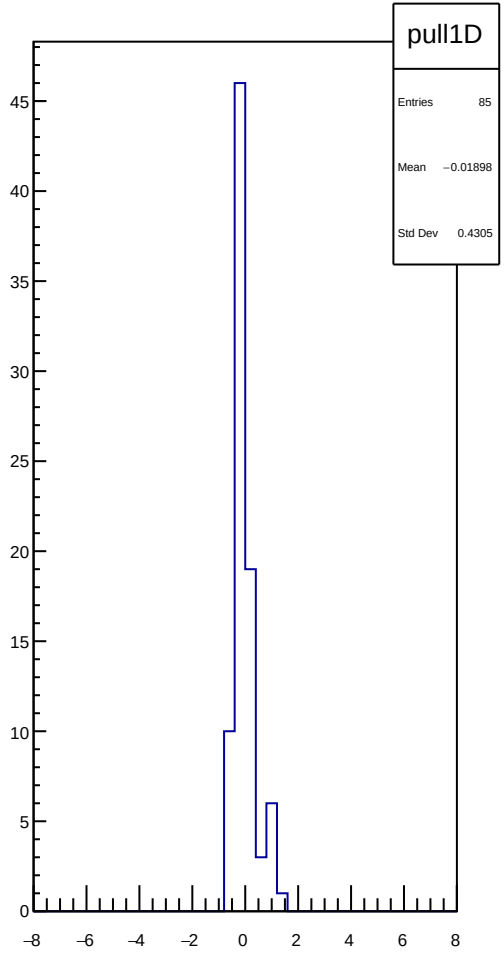

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 12.19 / 84
p0 7.711 ± 6.813
150
100
50
0
−50
−100
pull
Entries 85
Mean 11.46
Std Dev 80.65
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

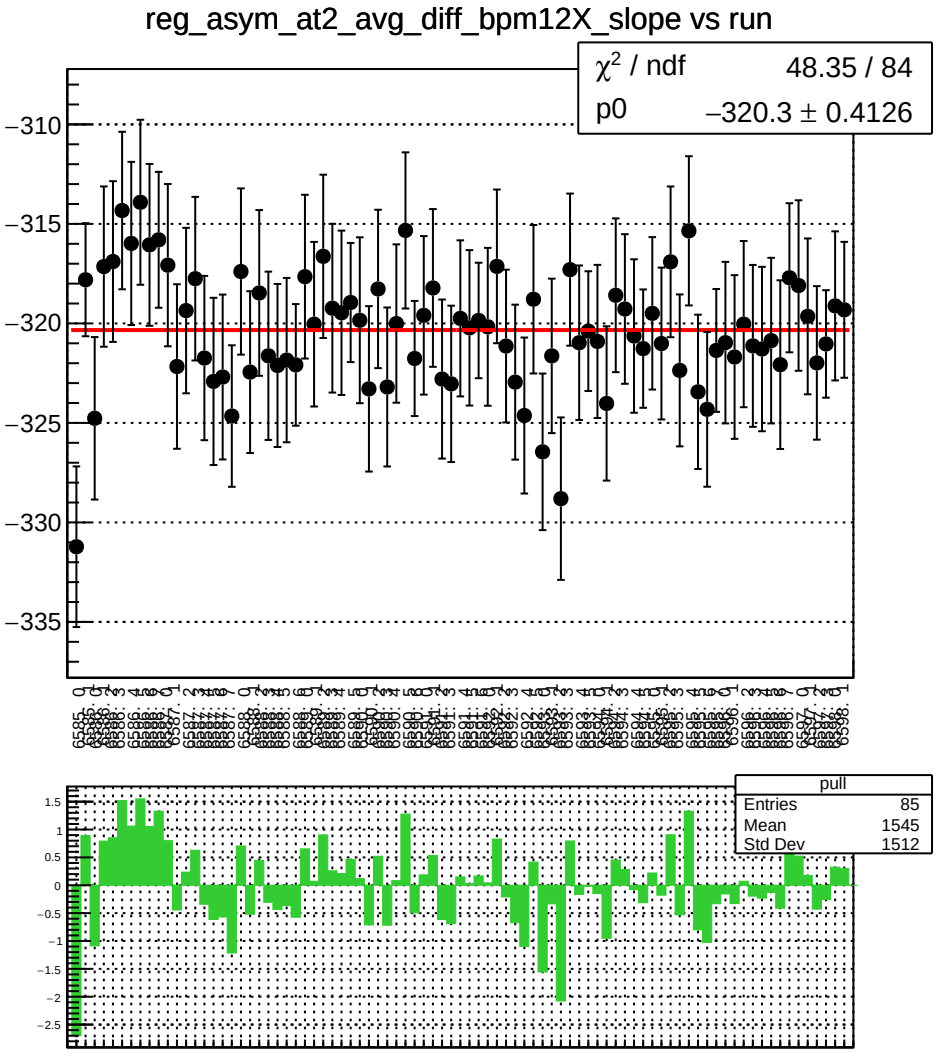

pull1D
Entries 85
Mean 0.01346
Std Dev 0.3785
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

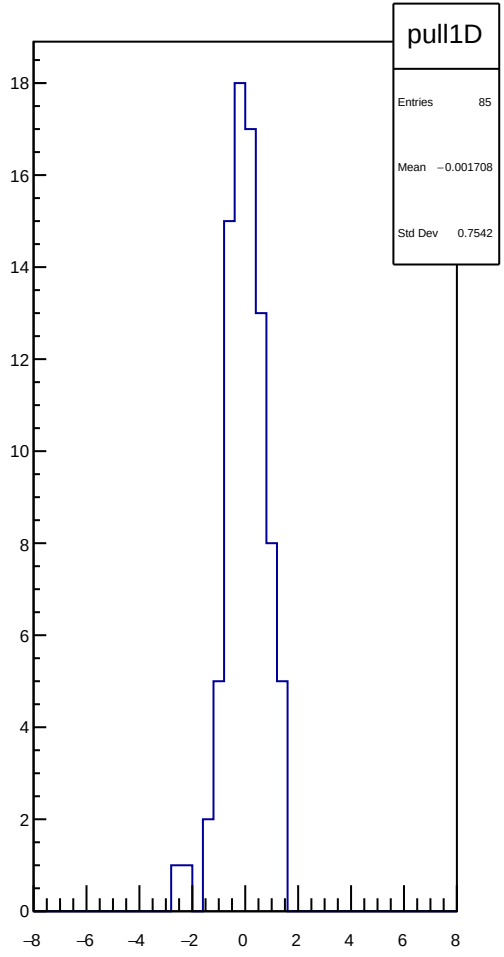

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 55.22 / 84
p0 558.3 ± 10.17
pull
Entries 85
Mean 77.06
Std Dev 49.31

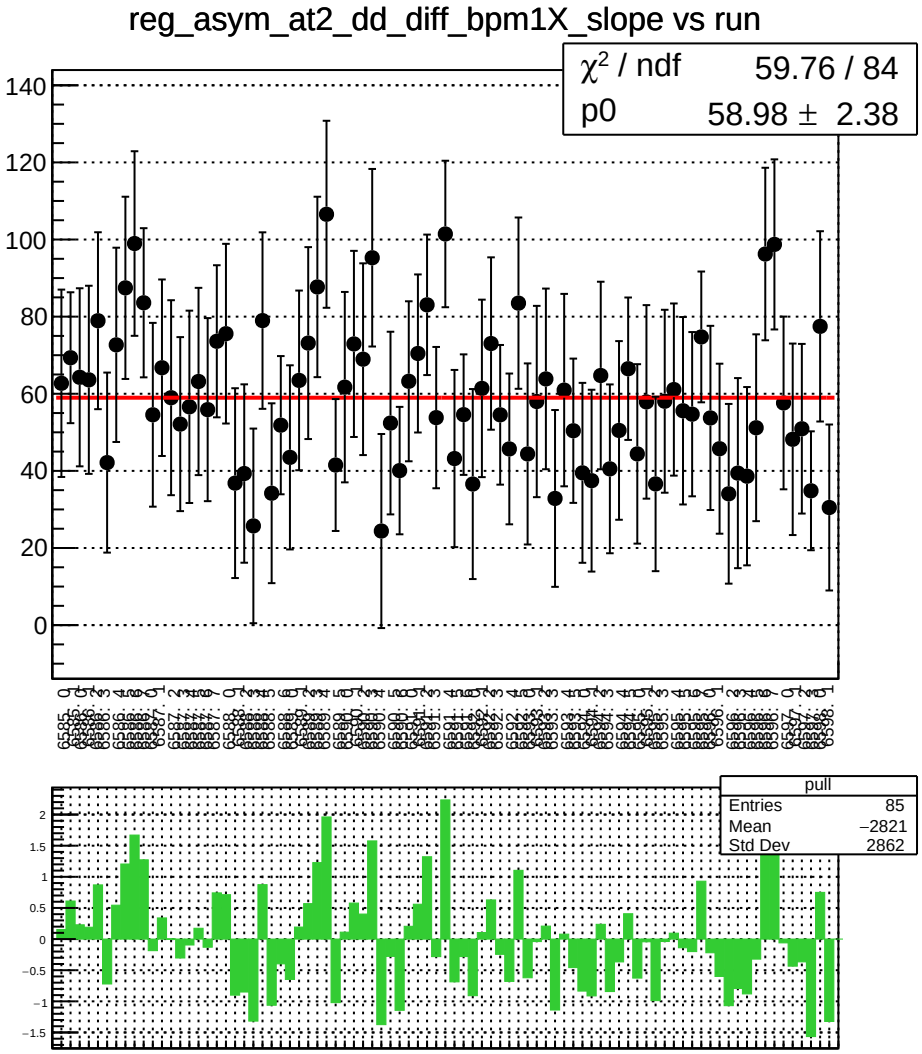

pull1D
Entries 85
Mean 0.05022
Std Dev 0.8044

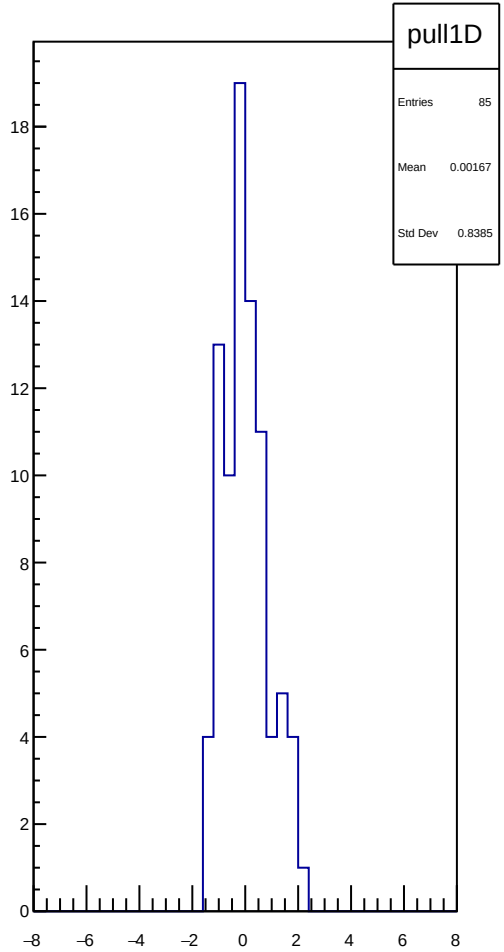

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.78 / 84
p0 148.6 ± 8.208
pull
Entries 85
Mean 9.029
Std Dev 71.34

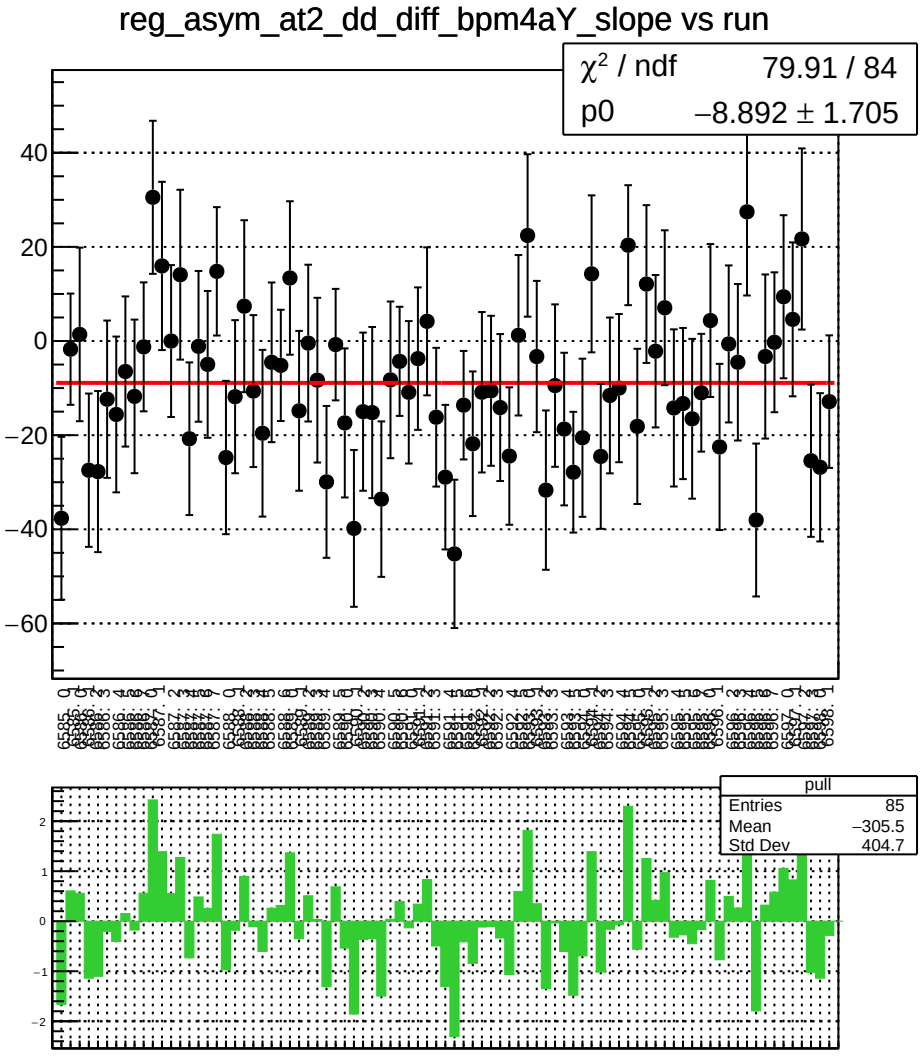

pull1D
Entries 85
Mean −0.01898
Std Dev 0.4305

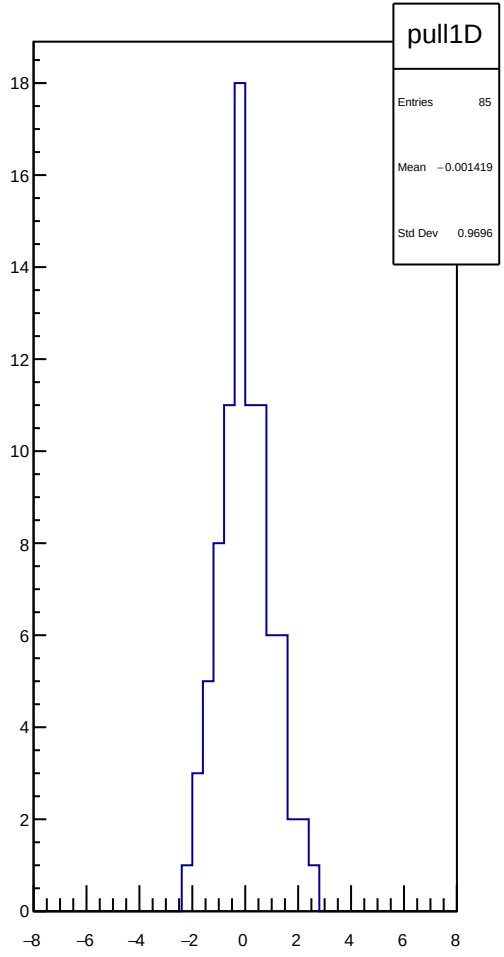

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 48.35 / 84
p0 −320.3 ± 0.4126
pull
Entries 85
Mean 1545
Std Dev 1512

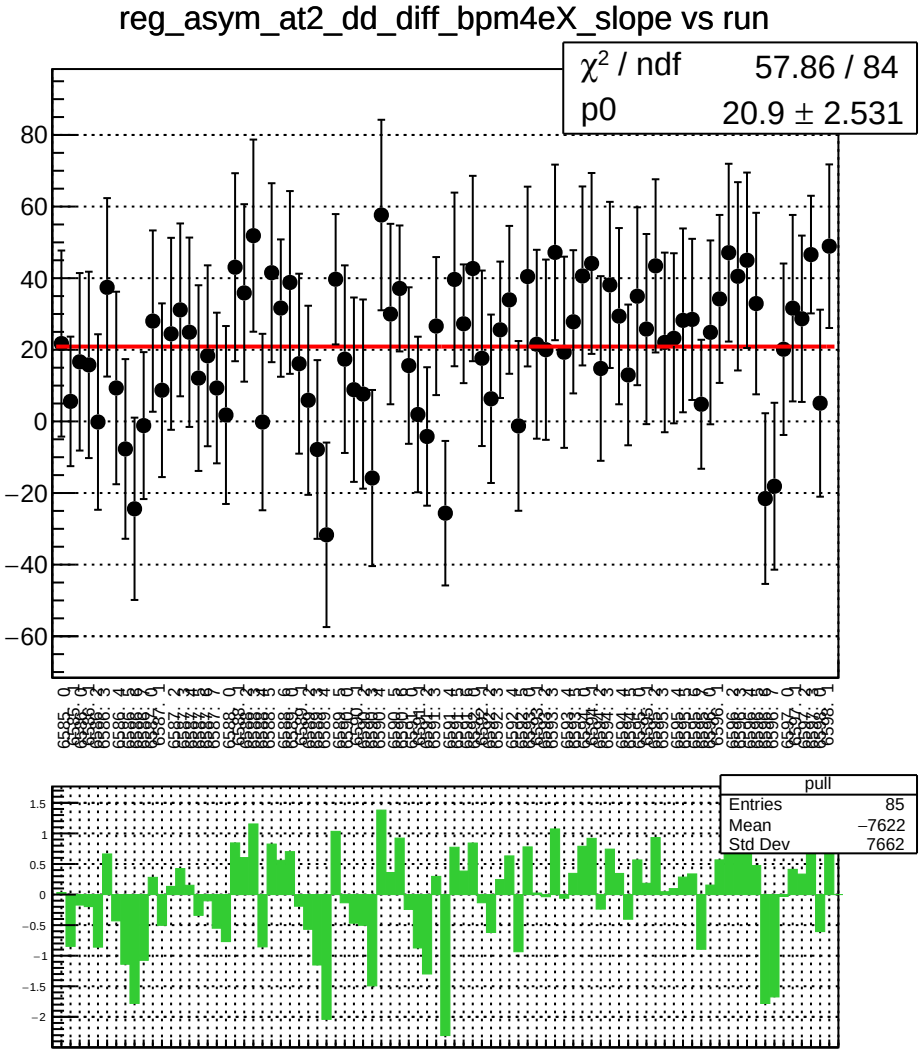

pull1D
Entries 85
Mean −0.001708
Std Dev 0.7542

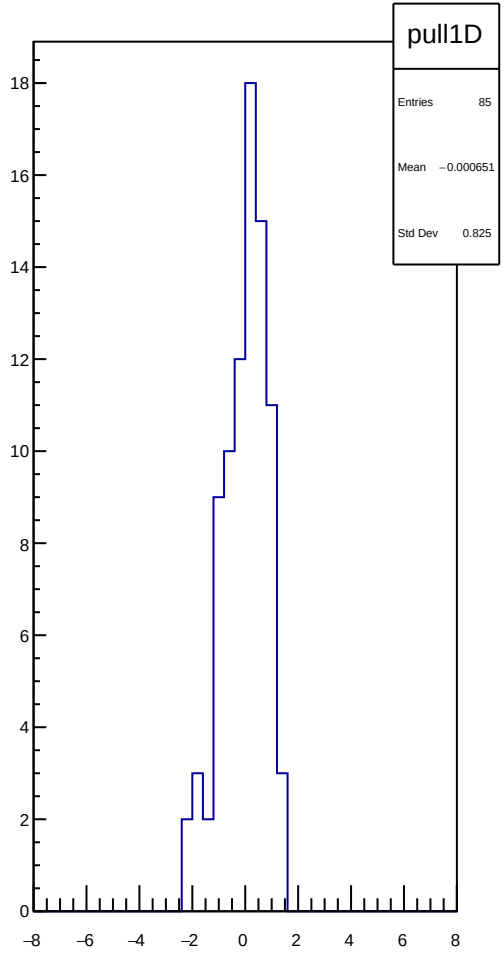

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 59.76 / 84
p0 58.98 ± 2.38
pull
Entries 85
Mean −2821
Std Dev 2862

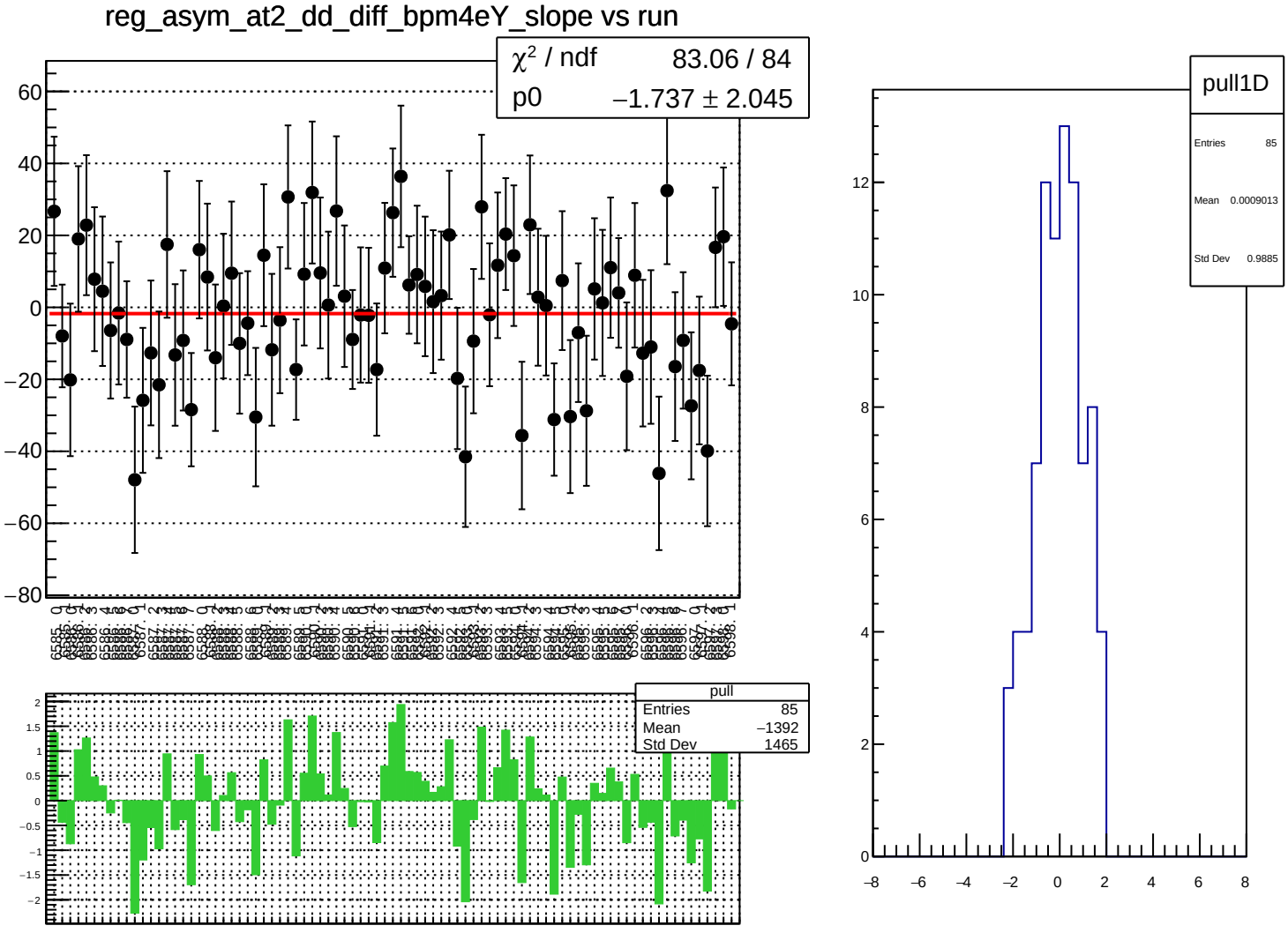

pull1D
Entries 85
Mean 0.00167
Std Dev 0.8385

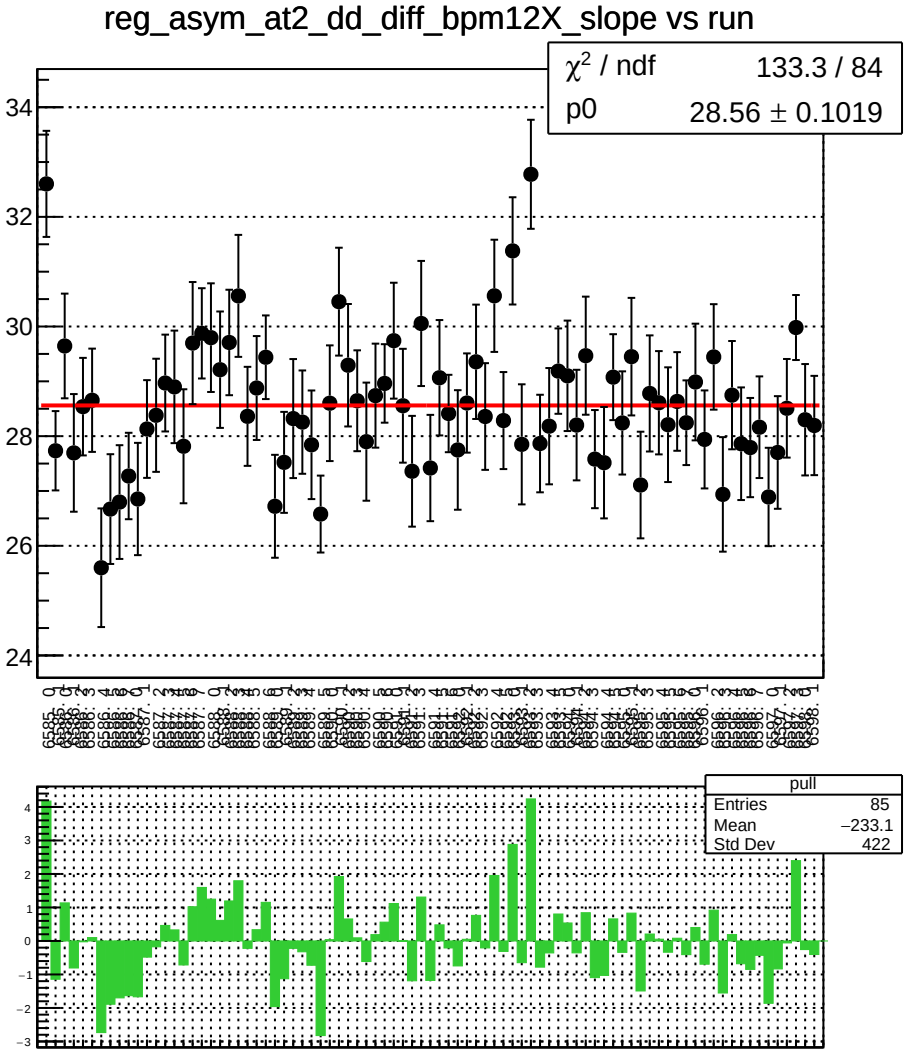

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.91 / 84
p0 −8.892 ± 1.705
pull
Entries 85
Mean −305.5
Std Dev 404.7

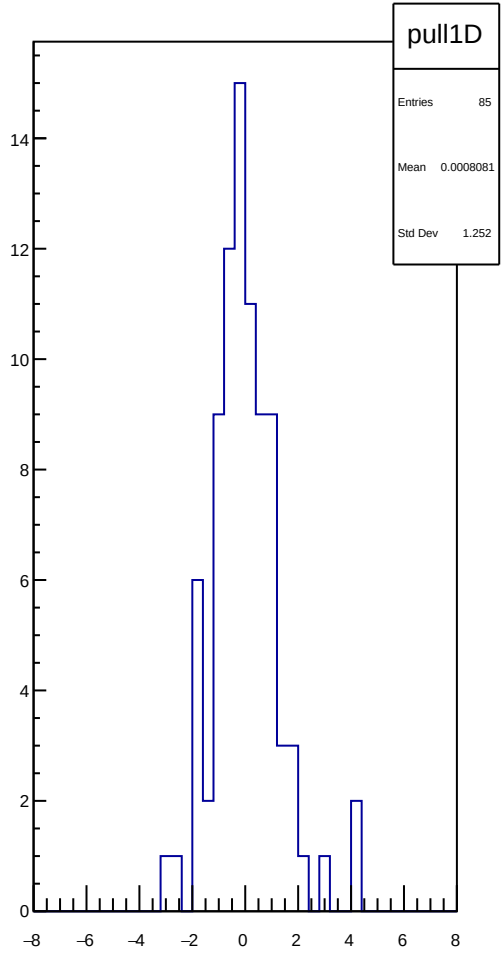

pull1D
Entries 85
Mean −0.001419
Std Dev 0.9696

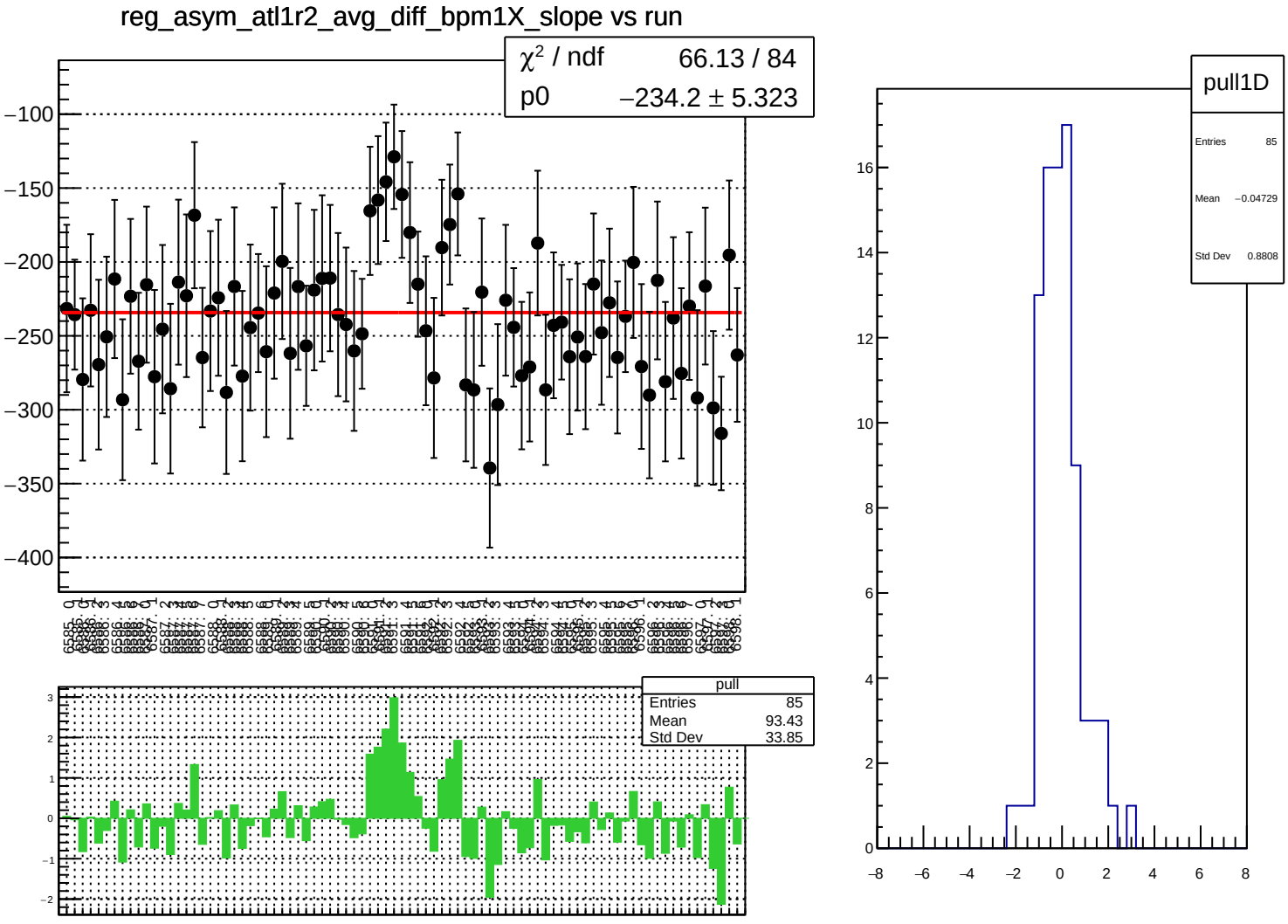

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.86 / 84
p0 20.9 ± 2.531
pull
Entries 85
Mean −7622
Std Dev 7662

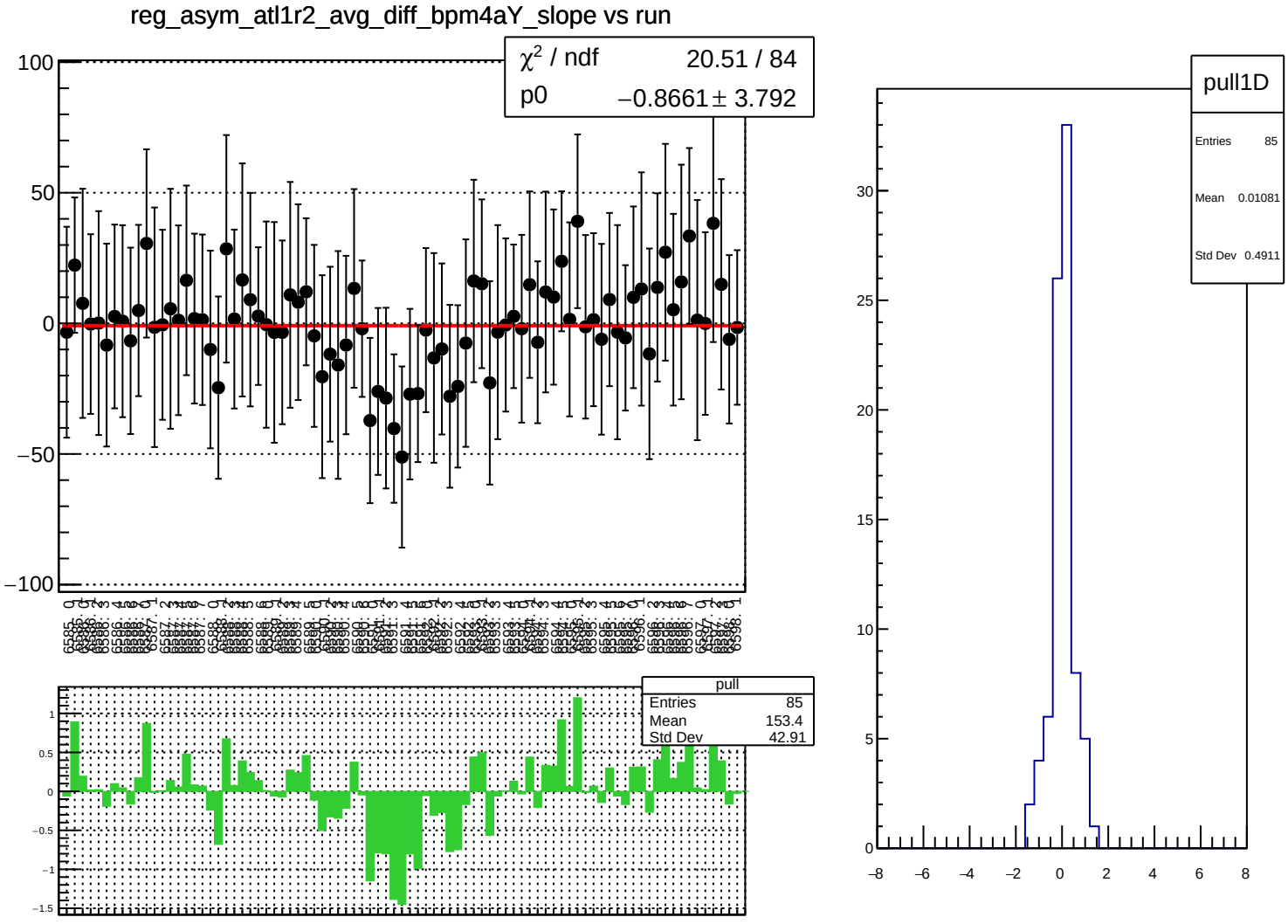

pull1D
Entries 85
Mean −0.000651
Std Dev 0.825

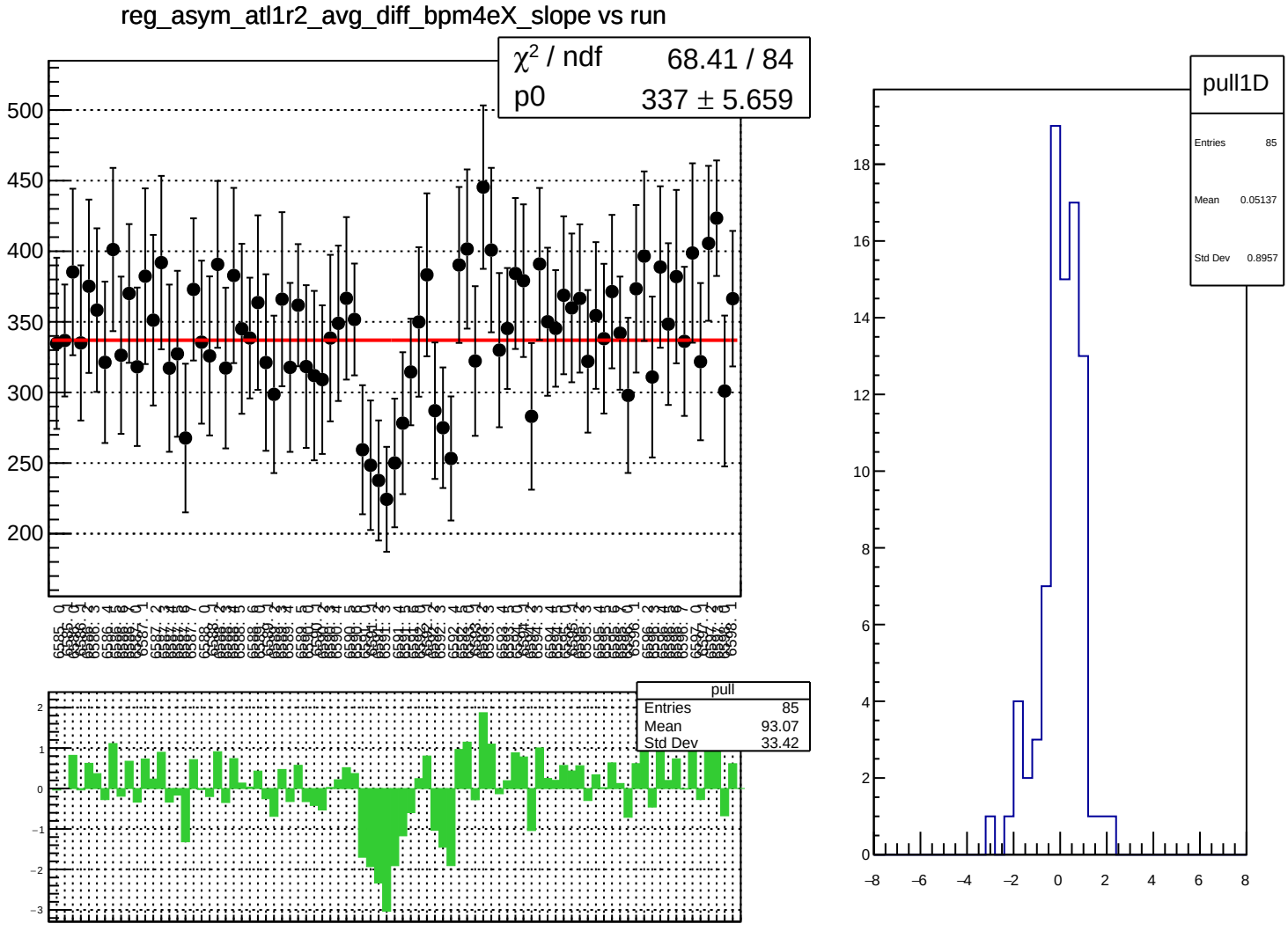

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.06 / 84
p0 −1.737 ± 2.045
pull
Entries 85
Mean −1392
Std Dev 1465
pull1D
Entries 85
Mean 0.0009013
Std Dev 0.9885

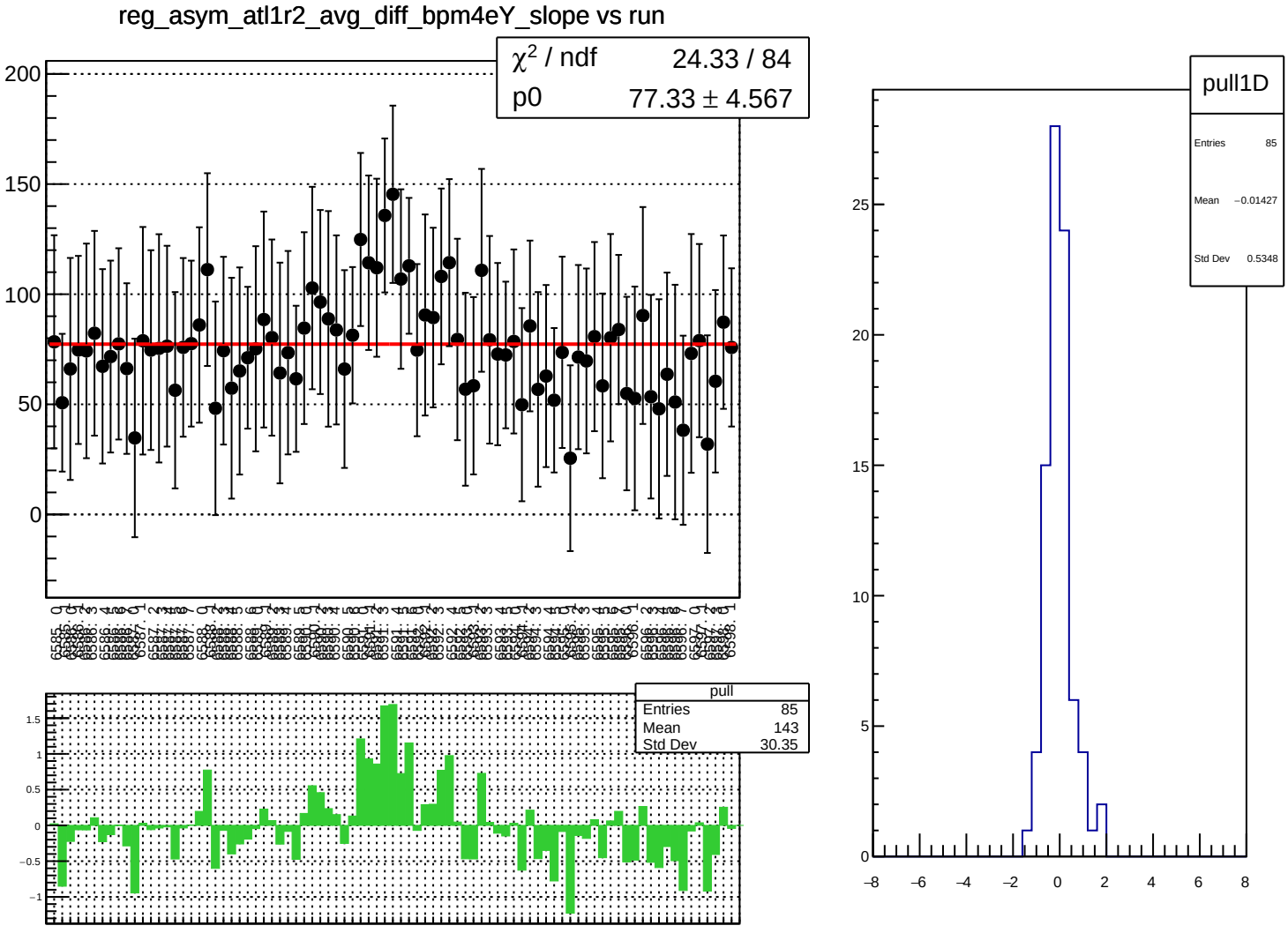

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 133.3 / 84
p0 28.56 ± 0.1019
pull
Entries 85
Mean −233.1
Std Dev 422

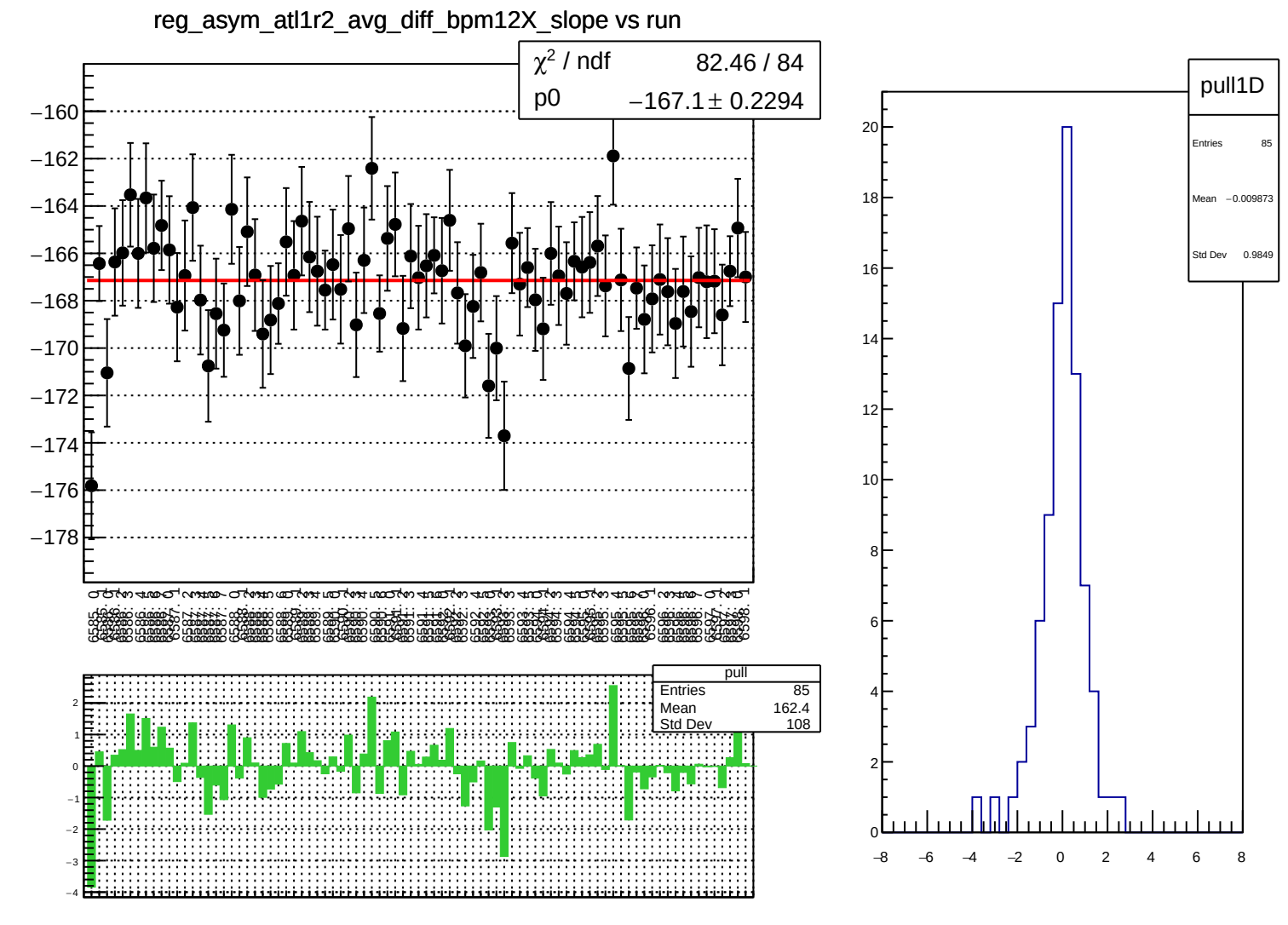

pull1D
Entries 85
Mean 0.0008081
Std Dev 1.252

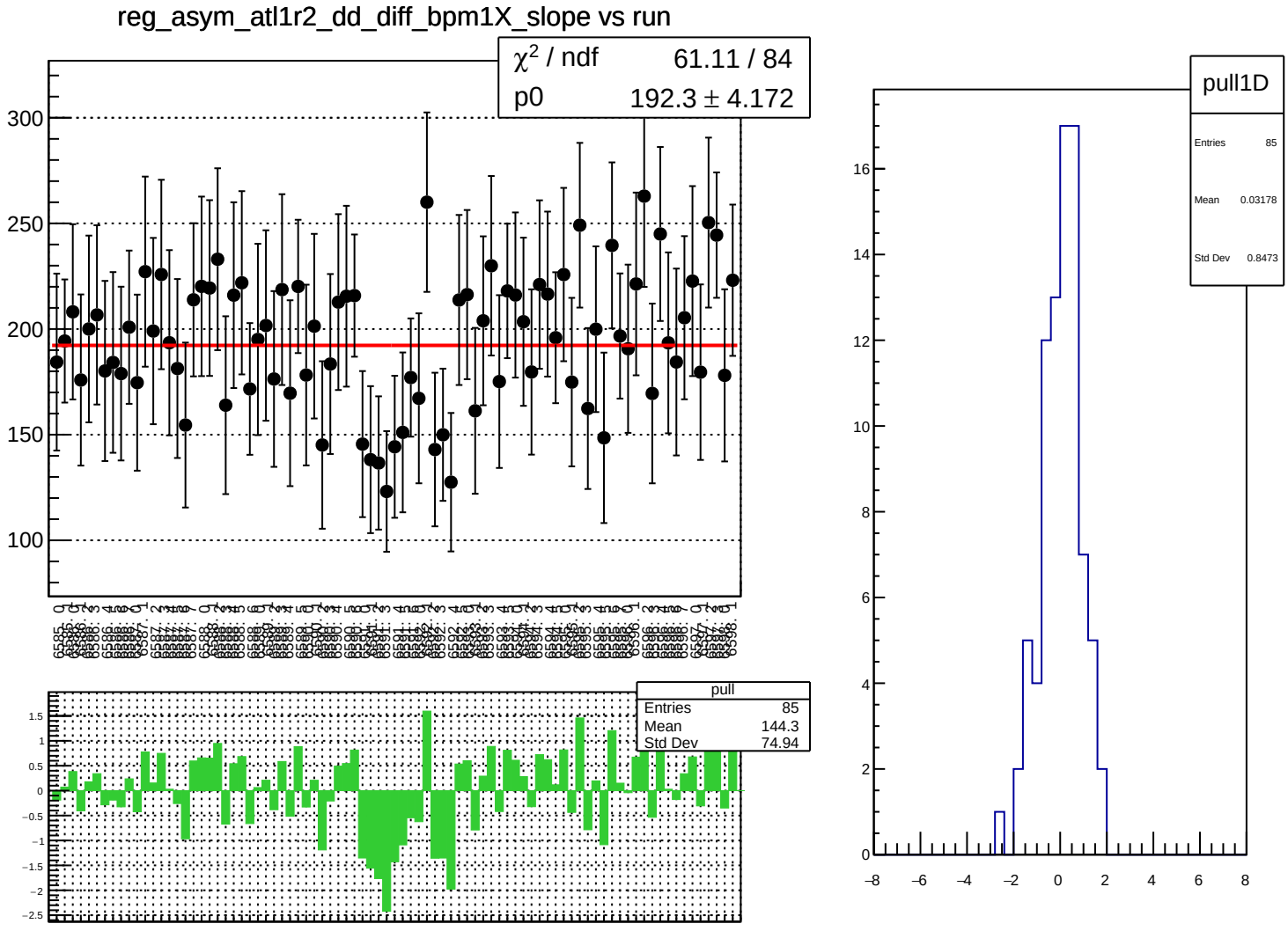

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 66.13 / 84
p0 −234.2 ± 5.323
pull
Entries 85
Mean 93.43
Std Dev 33.85
pull1D
Entries 85
Mean −0.04729
Std Dev 0.8808

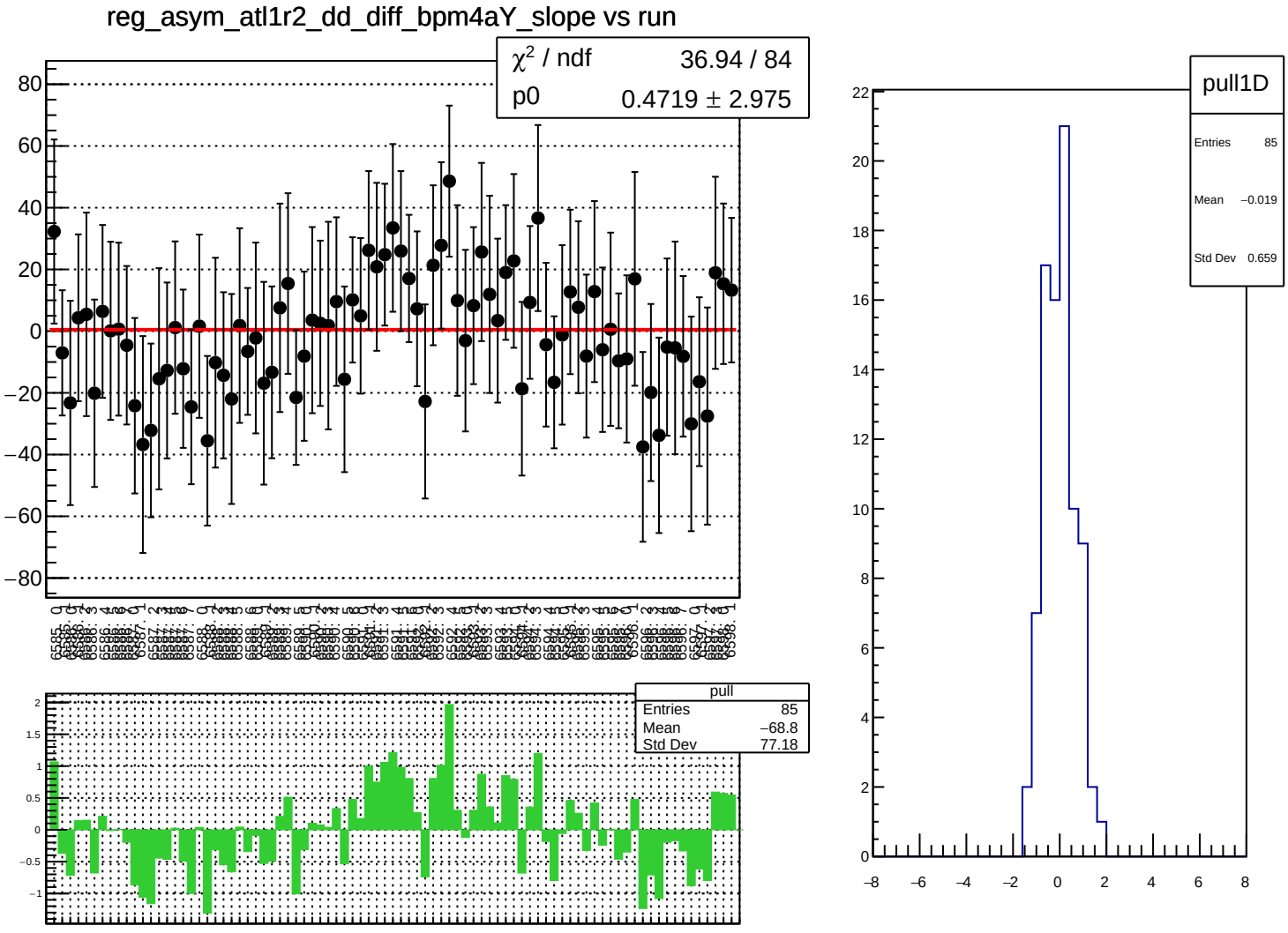

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.51 / 84
p0 −0.8661 ± 3.792
pull
Entries 85
Mean 153.4
Std Dev 42.91
pull1D
Entries 85
Mean 0.01081
Std Dev 0.4911

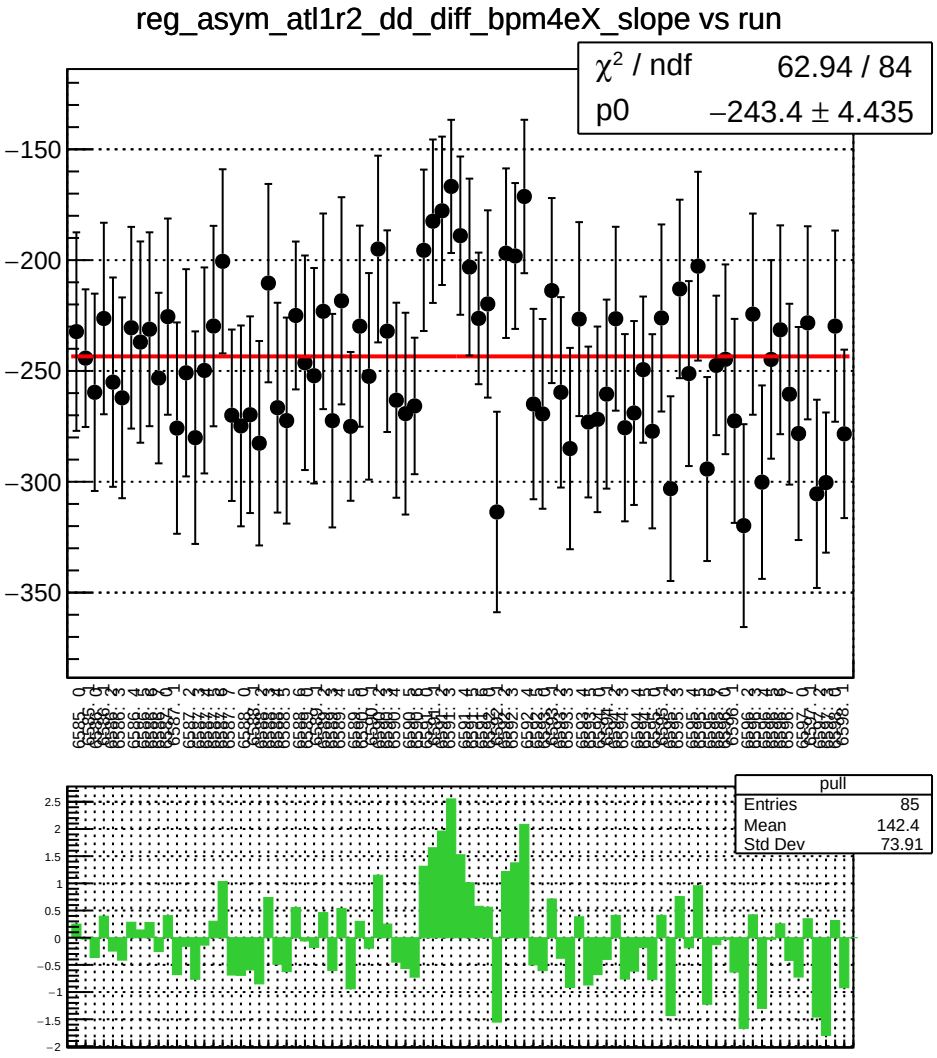

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.41 / 84
p0 337 ± 5.659
pull
Entries 85
Mean 93.07
Std Dev 33.42
pull1D
Entries 85
Mean 0.05137
Std Dev 0.8957

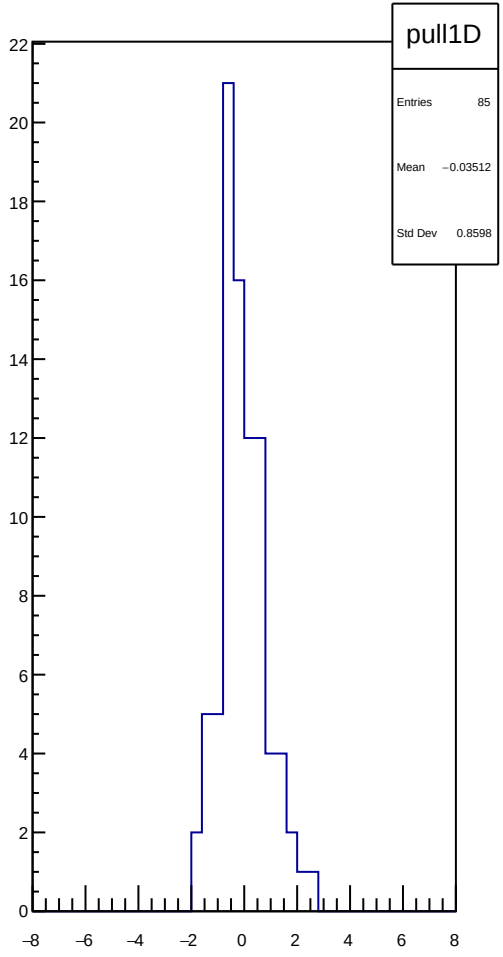

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.33 / 84
p0 77.33 ± 4.567
pull
Entries 85
Mean 143
Std Dev 30.35
pull1D
Entries 85
Mean −0.01427
Std Dev 0.5348

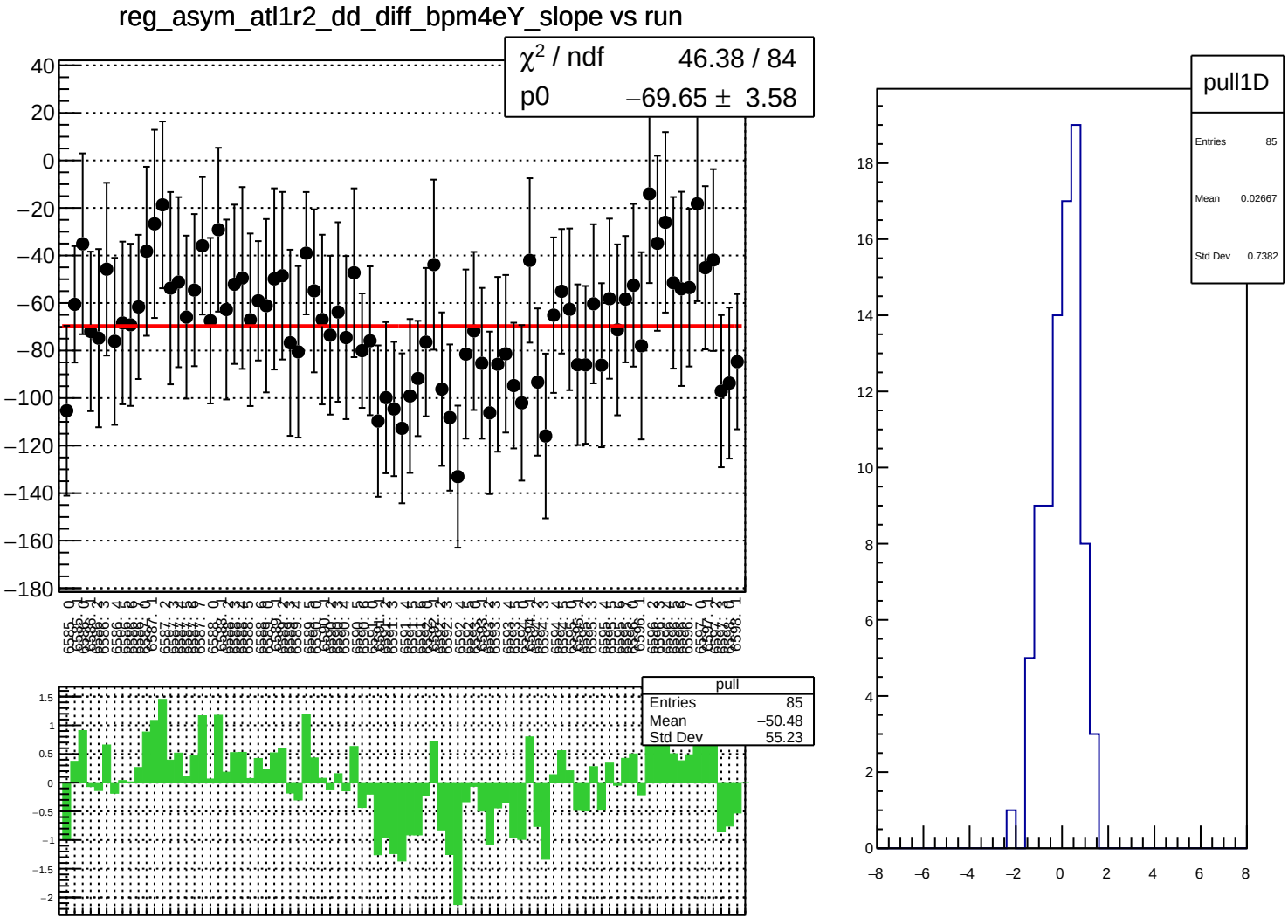

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 82.46 / 84
p0 −167.1 ± 0.2294
pull
Entries 85
Mean 162.4
Std Dev 108
pull1D
Entries 85
Mean −0.009873
Std Dev 0.9849

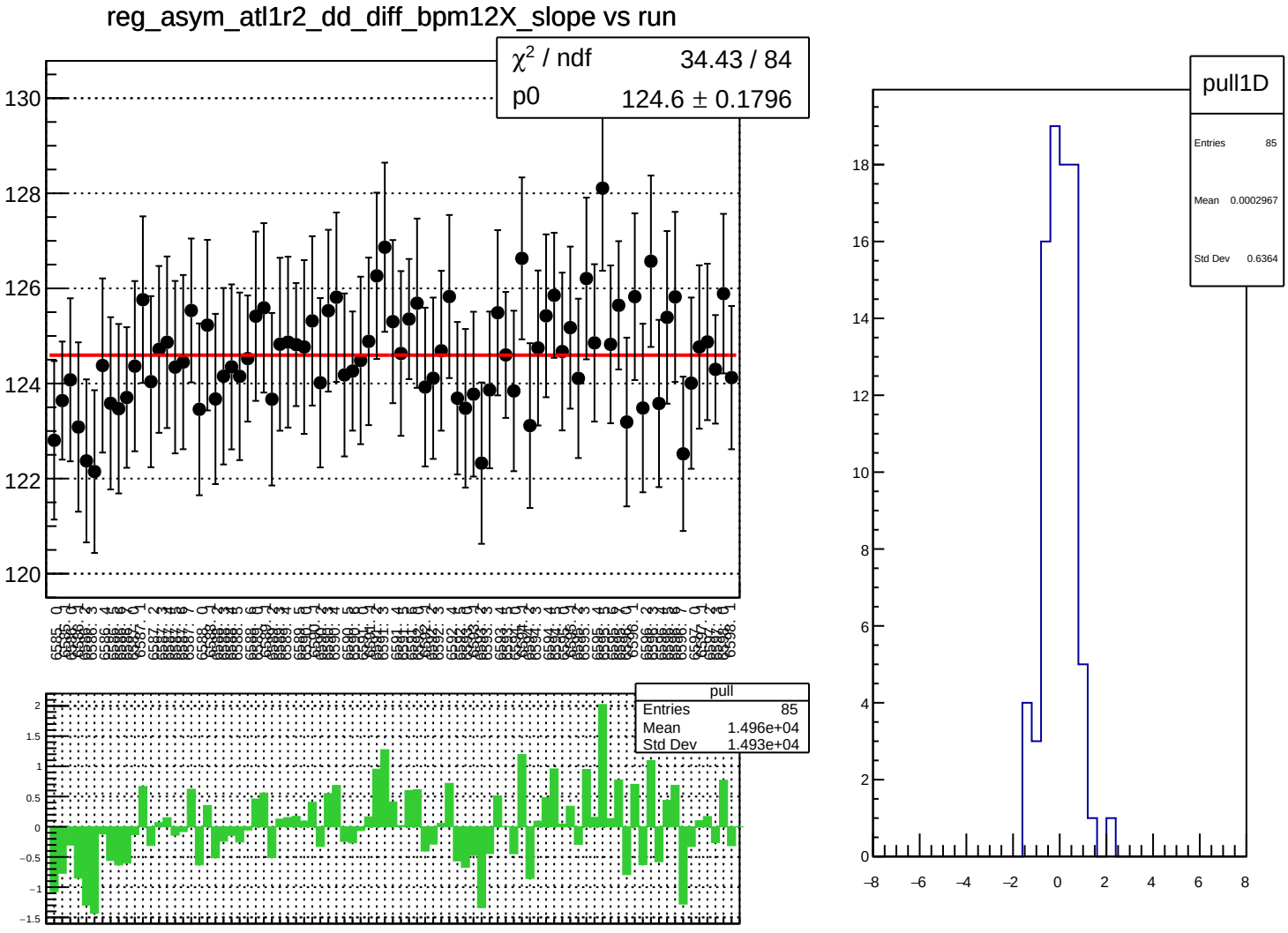

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 61.11 / 84
p0 192.3 ± 4.172
pull
Entries 85
Mean 144.3
Std Dev 74.94
pull1D
Entries 85
Mean 0.03178
Std Dev 0.8473

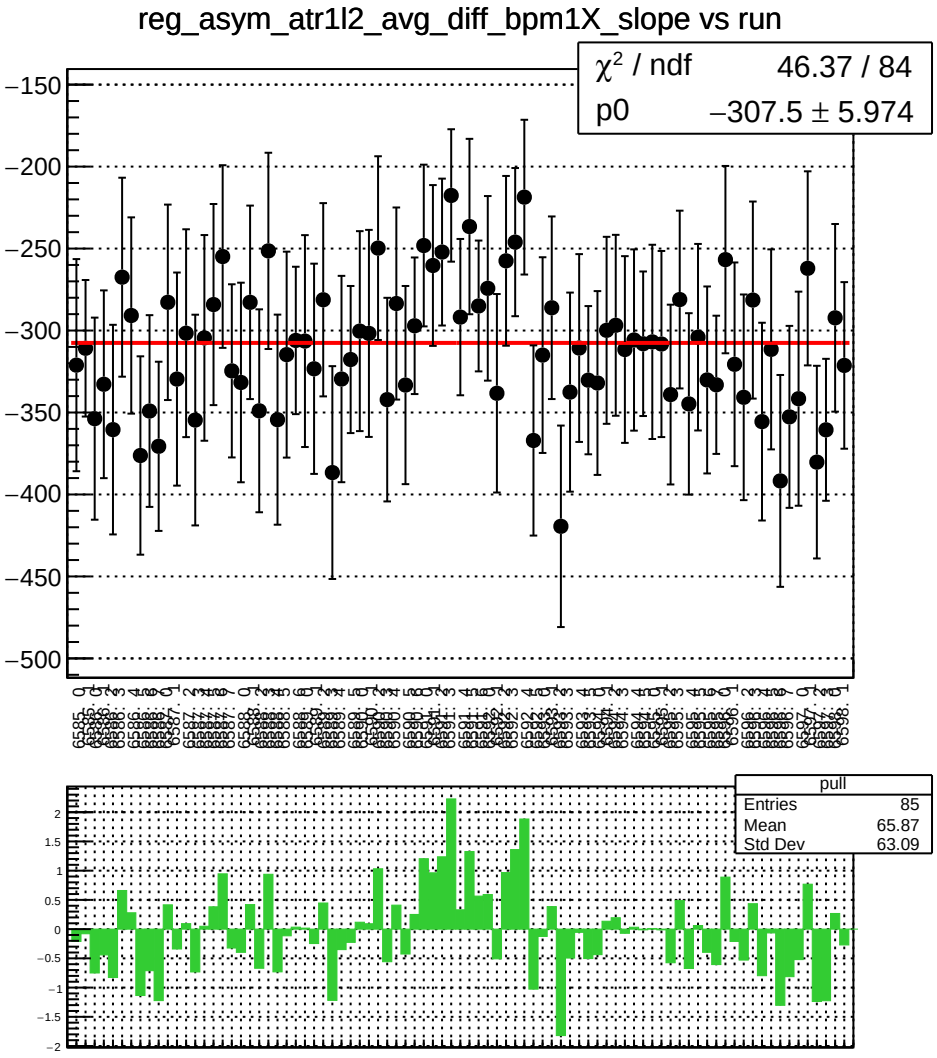

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.94 / 84
p0 0.4719 ± 2.975
pull
Entries 85
Mean −68.8
Std Dev 77.18
pull1D
Entries 85
Mean −0.019
Std Dev 0.659

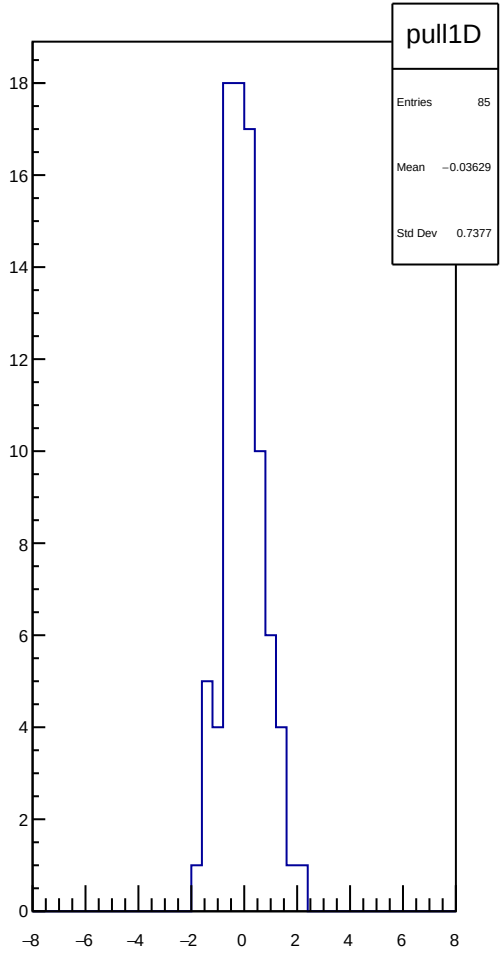

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.94 / 84
p0 −243.4 ± 4.435
pull
Entries 85
Mean 142.4
Std Dev 73.91

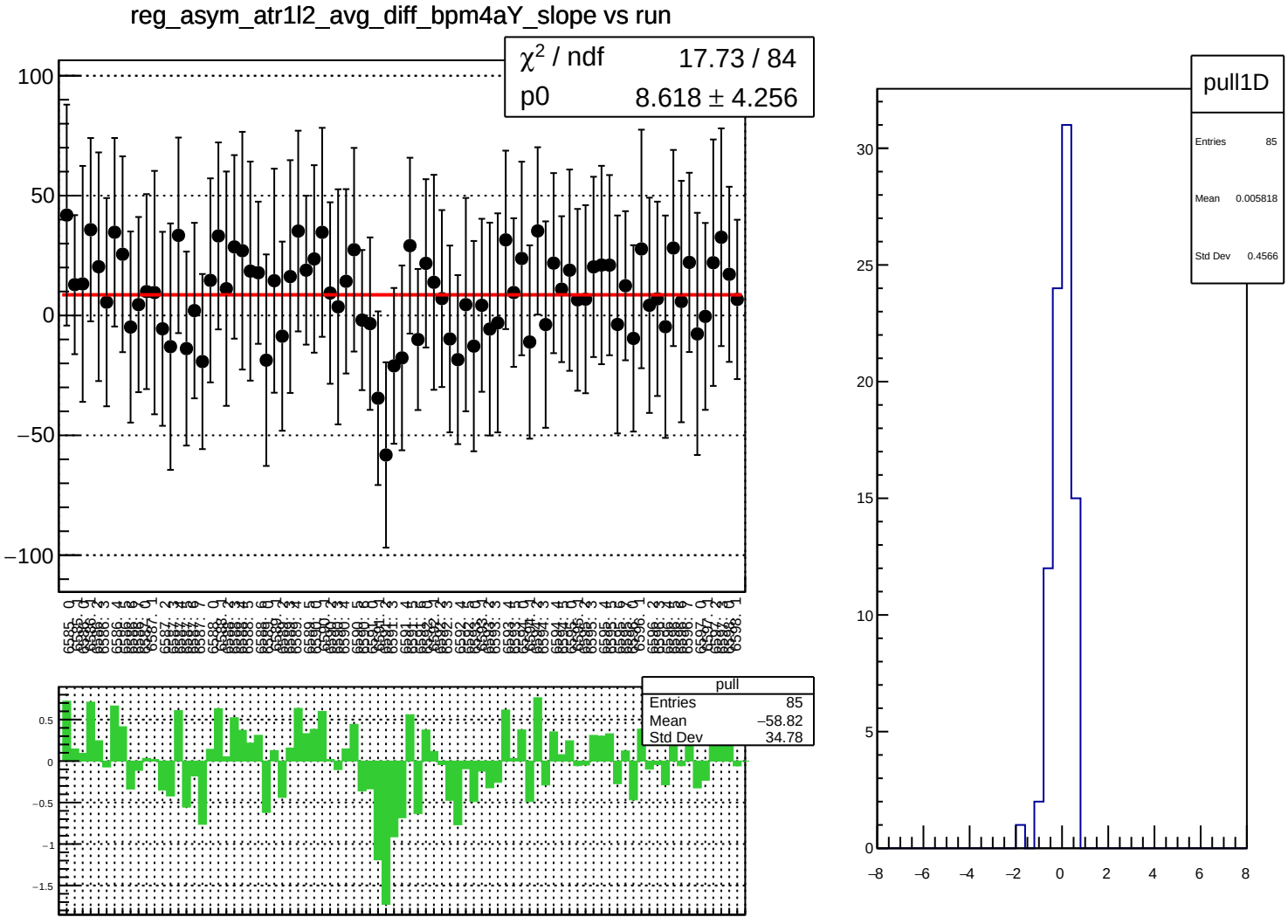

pull1D
Entries 85
Mean −0.03512
Std Dev 0.8598

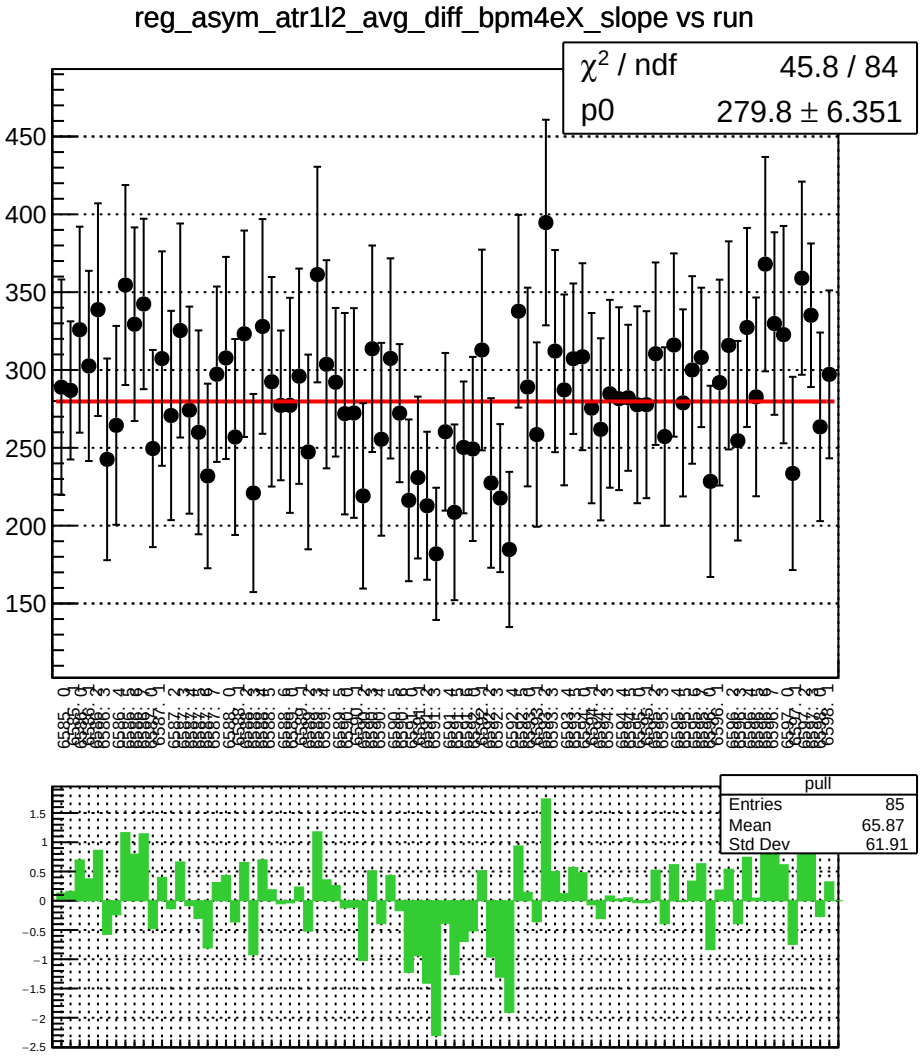

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.38 / 84
p0 −69.65 ± 3.58
pull
Entries 85
Mean −50.48
Std Dev 55.23
pull1D
Entries 85
Mean 0.02667
Std Dev 0.7382

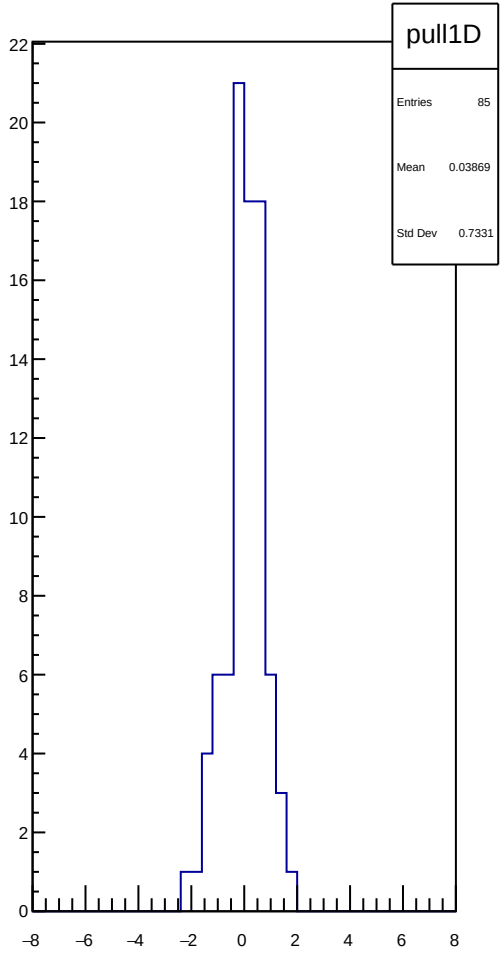

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 34.43 / 84
p0 124.6 ± 0.1796
pull
Entries 85
Mean 1.496e+04
Std Dev 1.493e+04
pull1D
Entries 85
Mean 0.0002967
Std Dev 0.6364

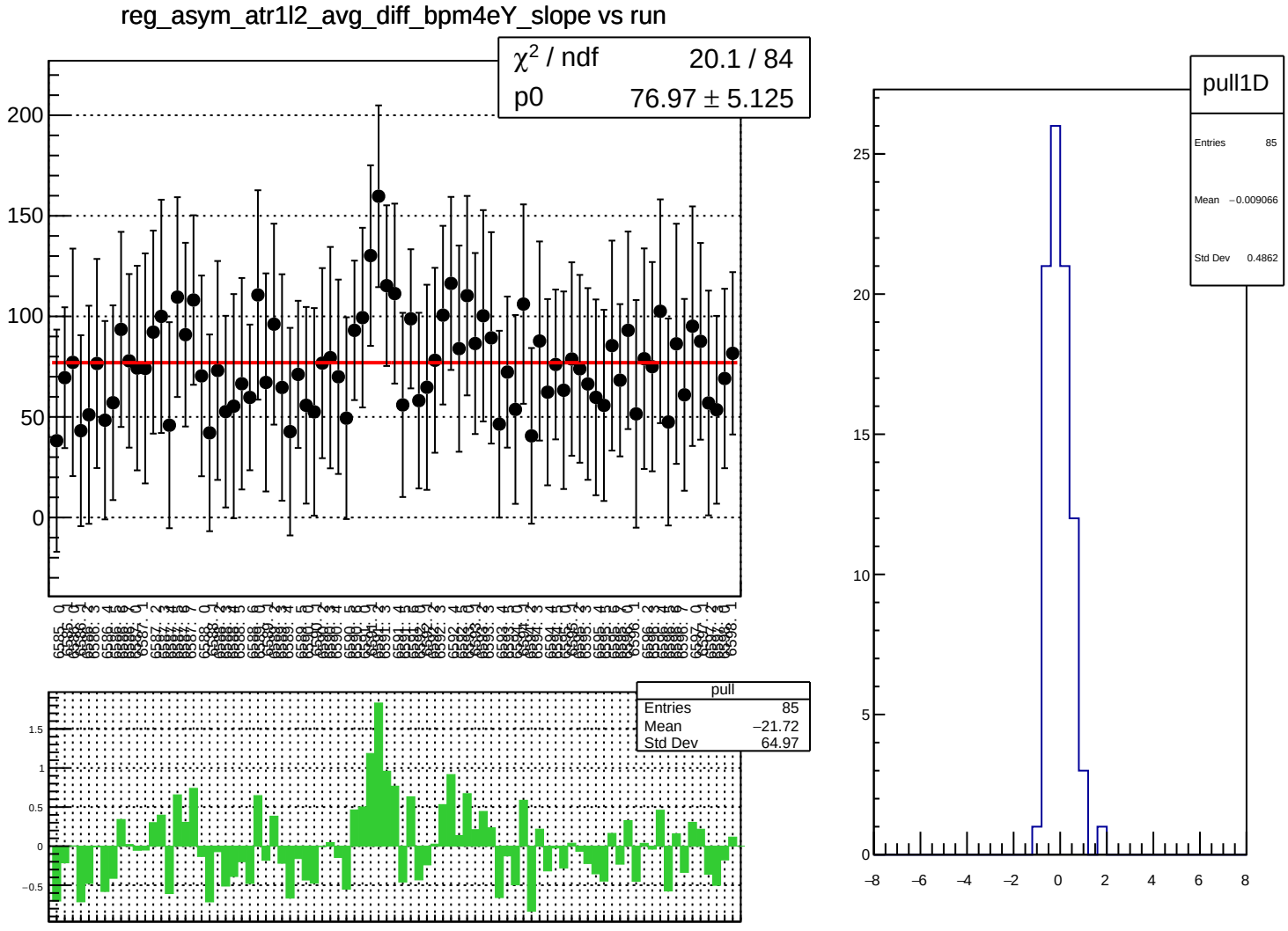

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 46.37 / 84
p0 −307.5 ± 5.974
pull
Entries 85
Mean 65.87
Std Dev 63.09

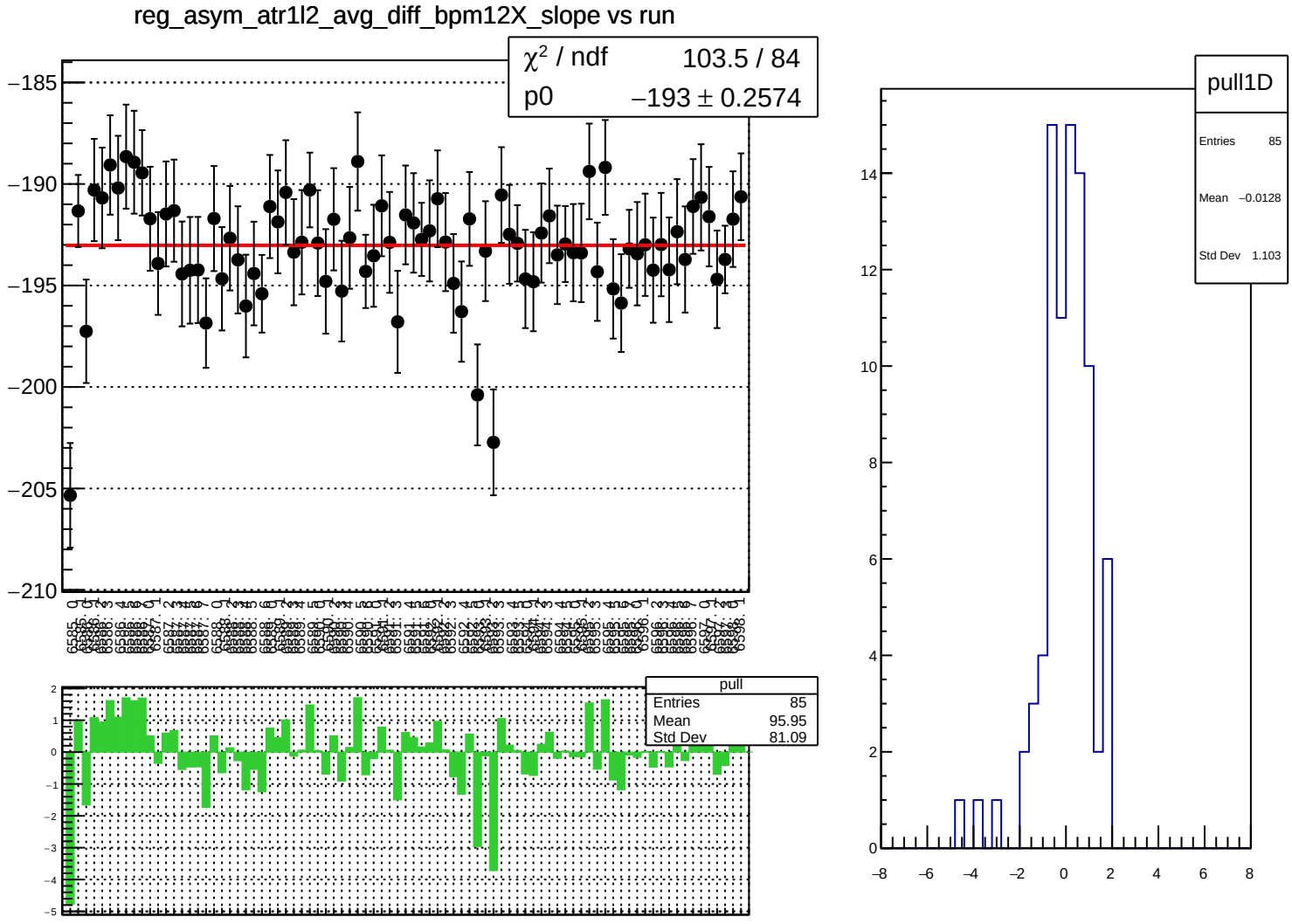

pull1D
Entries 85
Mean −0.03629
Std Dev 0.7377

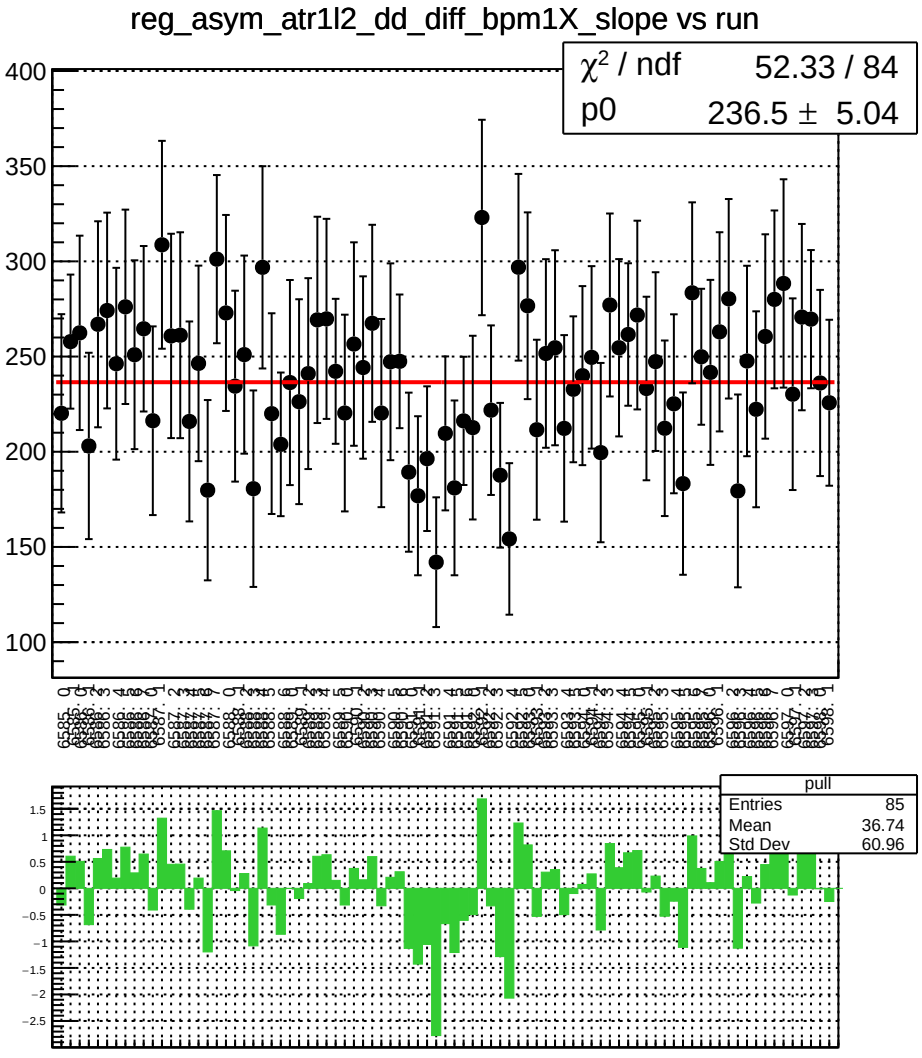

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.73 / 84
p0 8.618 ± 4.256
pull
Entries 85
Mean −58.82
Std Dev 34.78
pull1D
Entries 85
Mean 0.005818
Std Dev 0.4566

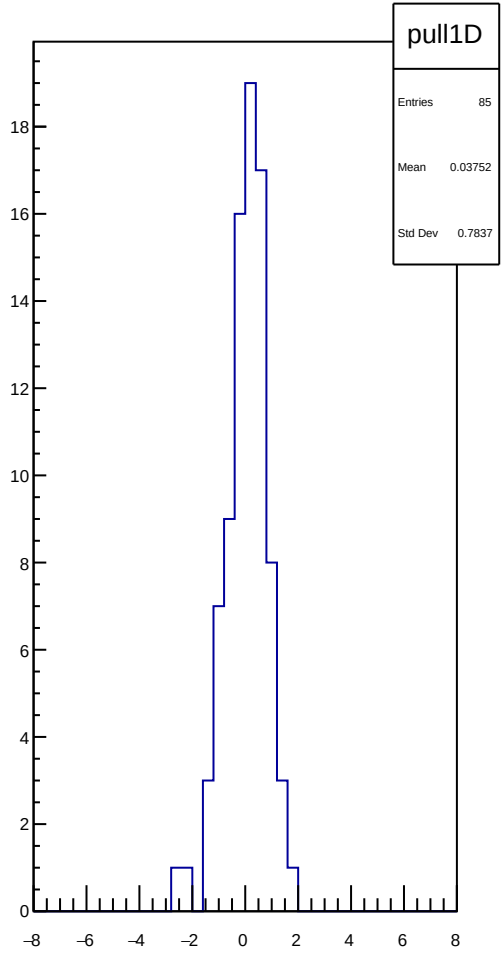

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.8 / 84
p0 279.8 ± 6.351
pull
Entries 85
Mean 65.87
Std Dev 61.91

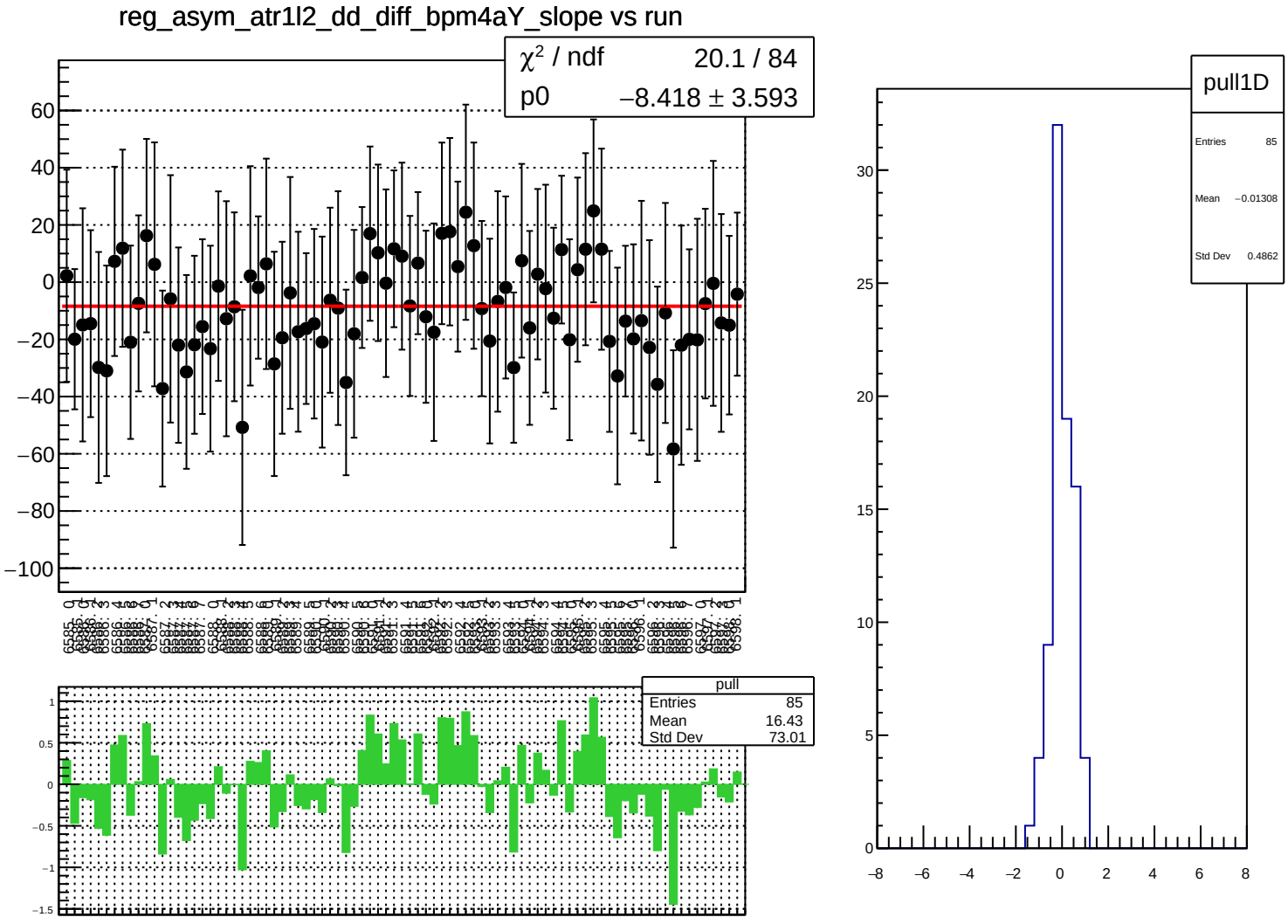

pull1D
Entries 85
Mean 0.03869
Std Dev 0.7331

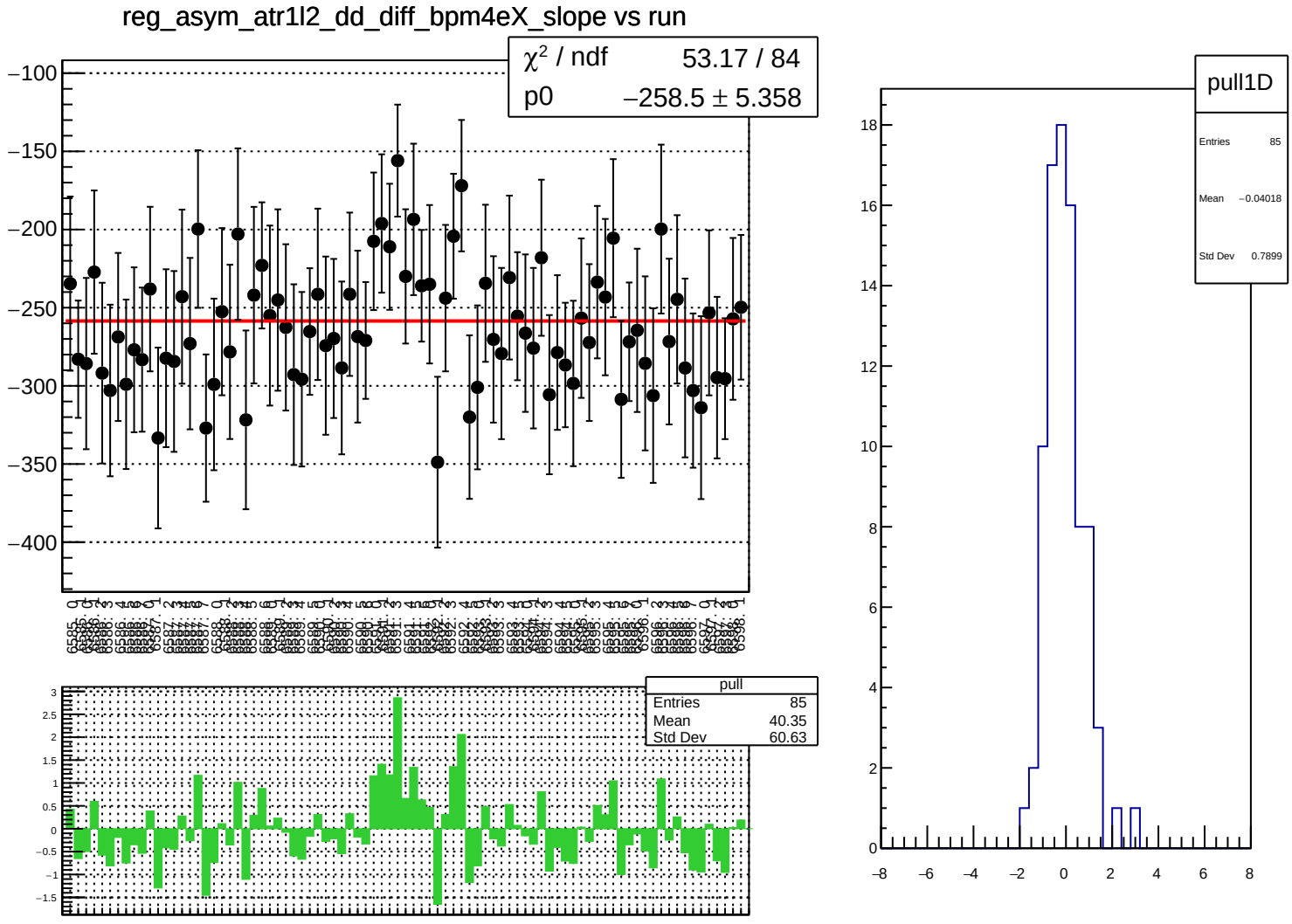

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.1 / 84
p0 76.97 ± 5.125
pull
Entries 85
Mean −21.72
Std Dev 64.97
pull1D
Entries 85
Mean −0.009066
Std Dev 0.4862

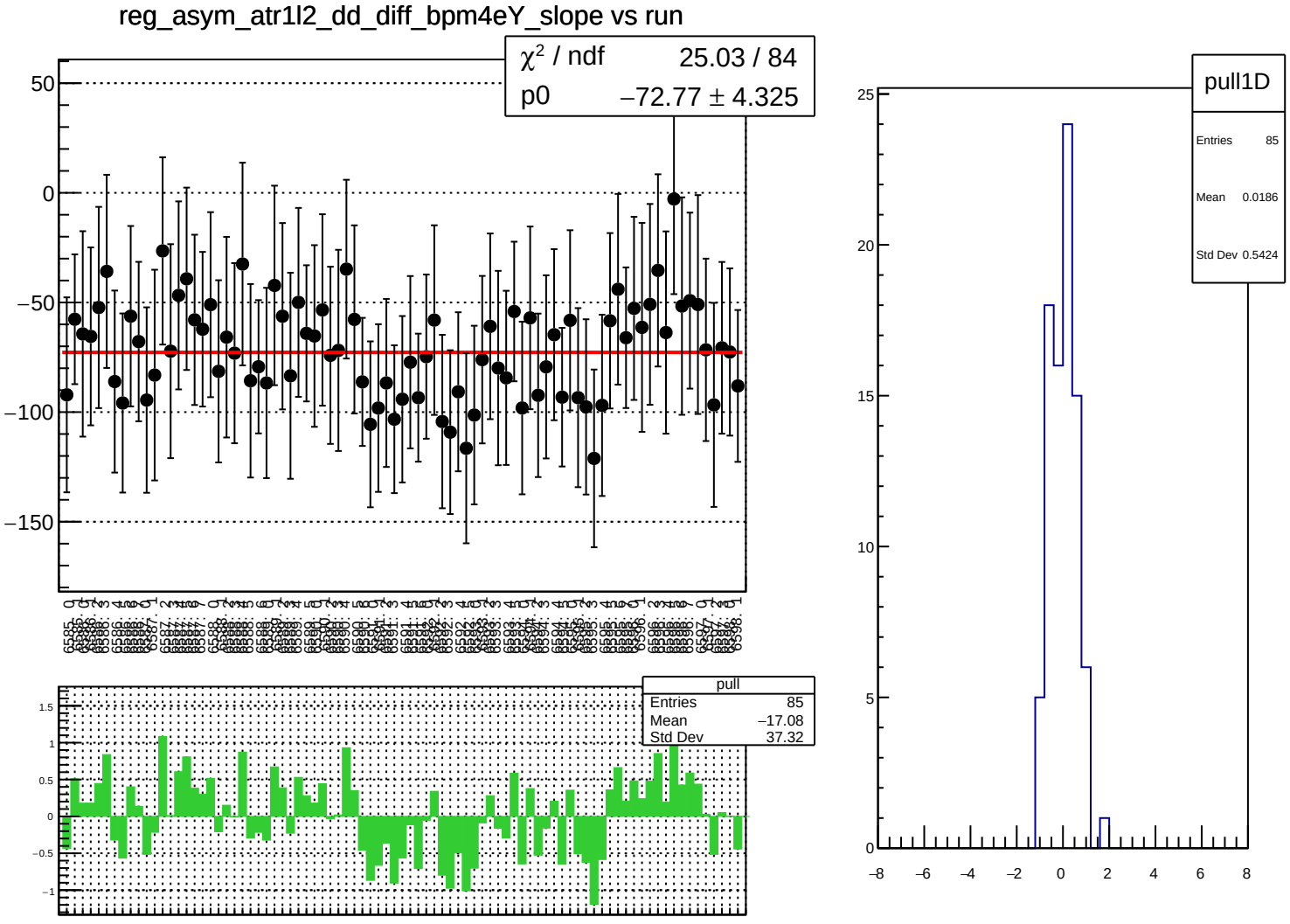

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 103.5 / 84
p0 −193 ± 0.2574
pull
Entries 85
Mean 95.95
Std Dev 81.09
pull1D
Entries 85
Mean −0.0128
Std Dev 1.103

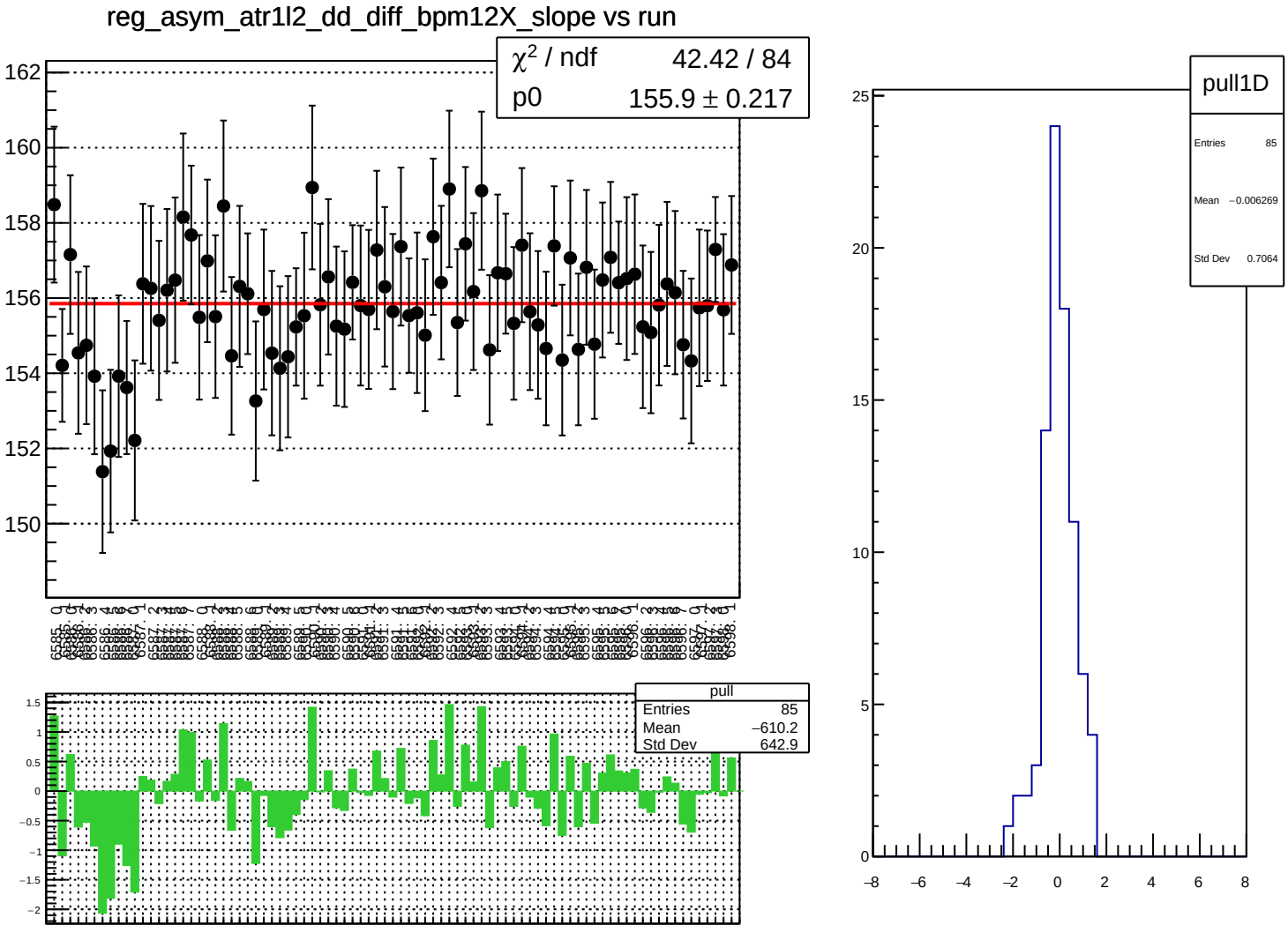

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 52.33 / 84
p0 236.5 ± 5.04
pull
Entries 85
Mean 36.74
Std Dev 60.96

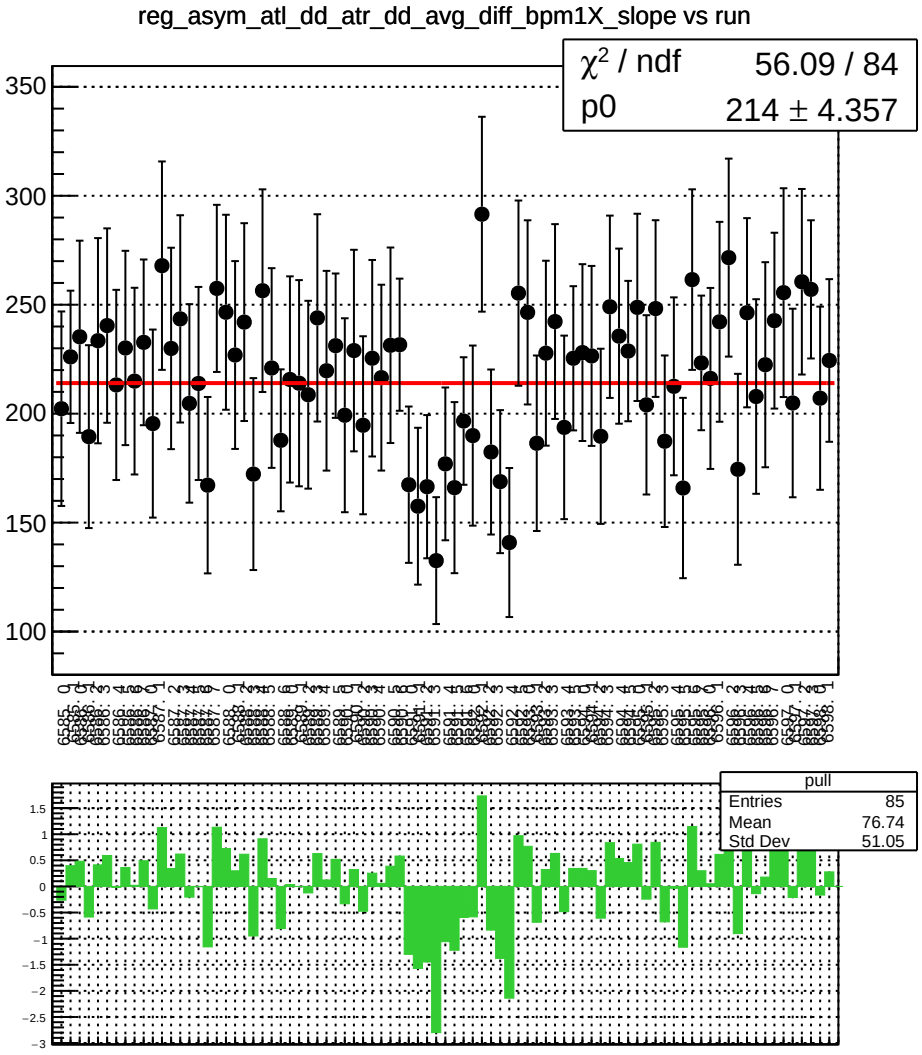

pull1D
Entries 85
Mean 0.03752
Std Dev 0.7837

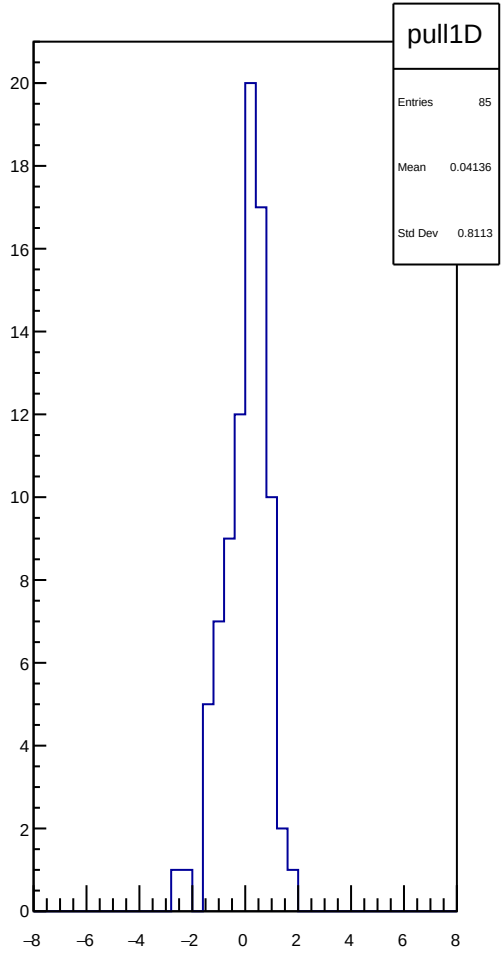

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.1 / 84
p0 −8.418 ± 3.593
pull
Entries 85
Mean 16.43
Std Dev 73.01
pull1D
Entries 85
Mean −0.01308
Std Dev 0.4862

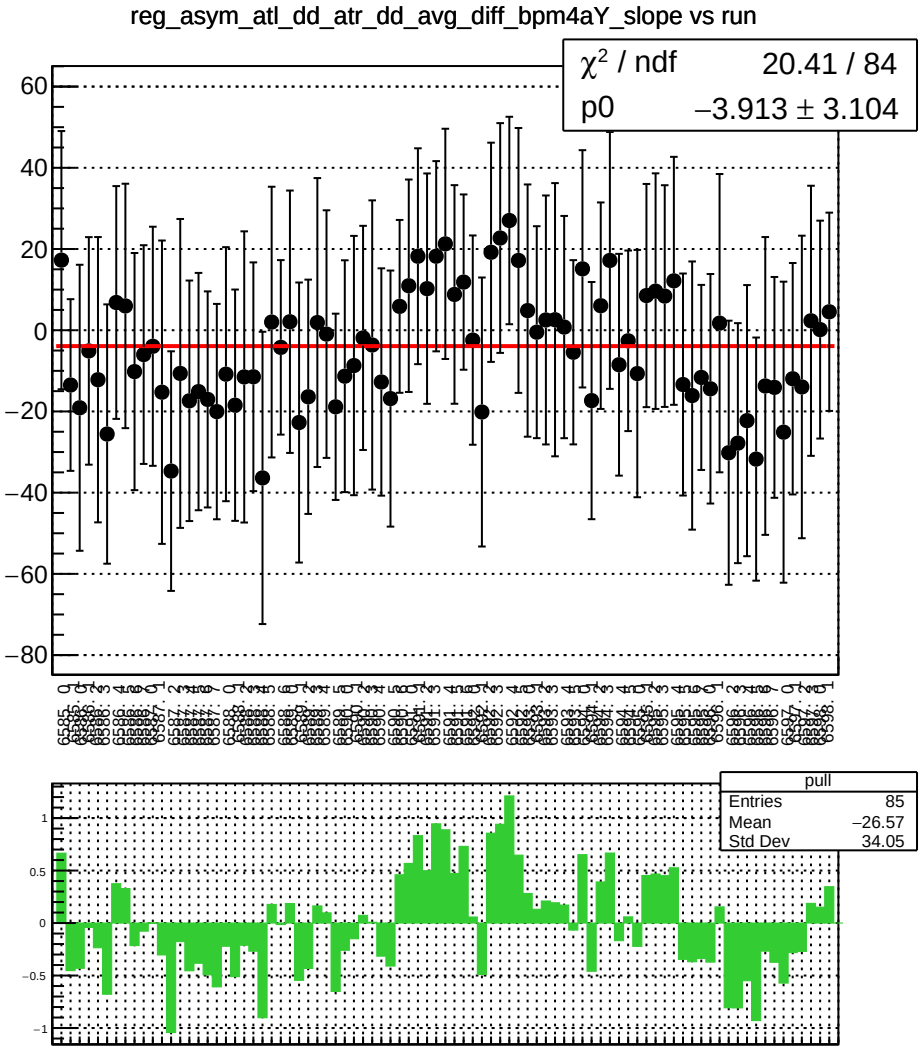

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.17 / 84
p0 −258.5 ± 5.358
pull
Entries 85
Mean 40.35
Std Dev 60.63
pull1D
Entries 85
Mean −0.04018
Std Dev 0.7899

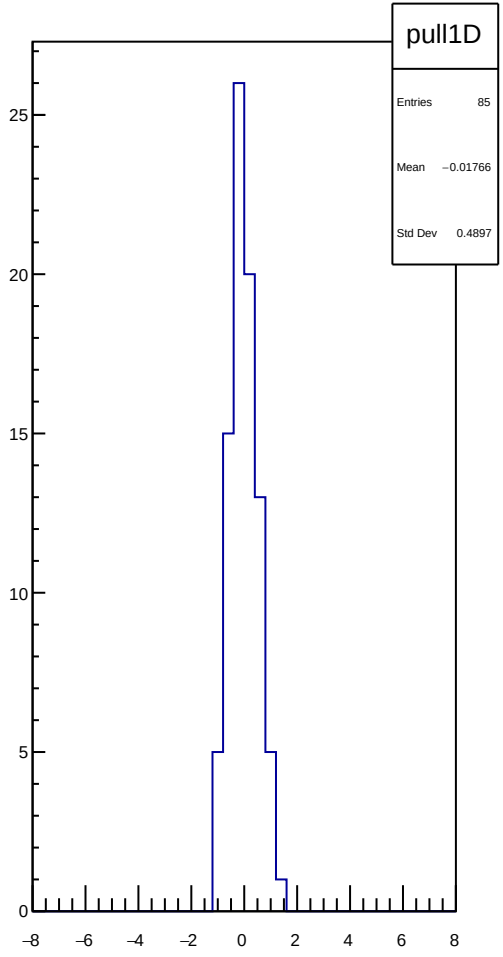

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.03 / 84
p0 −72.77 ± 4.325
pull
Entries 85
Mean −17.08
Std Dev 37.32
pull1D
Entries 85
Mean 0.0186
Std Dev 0.5424

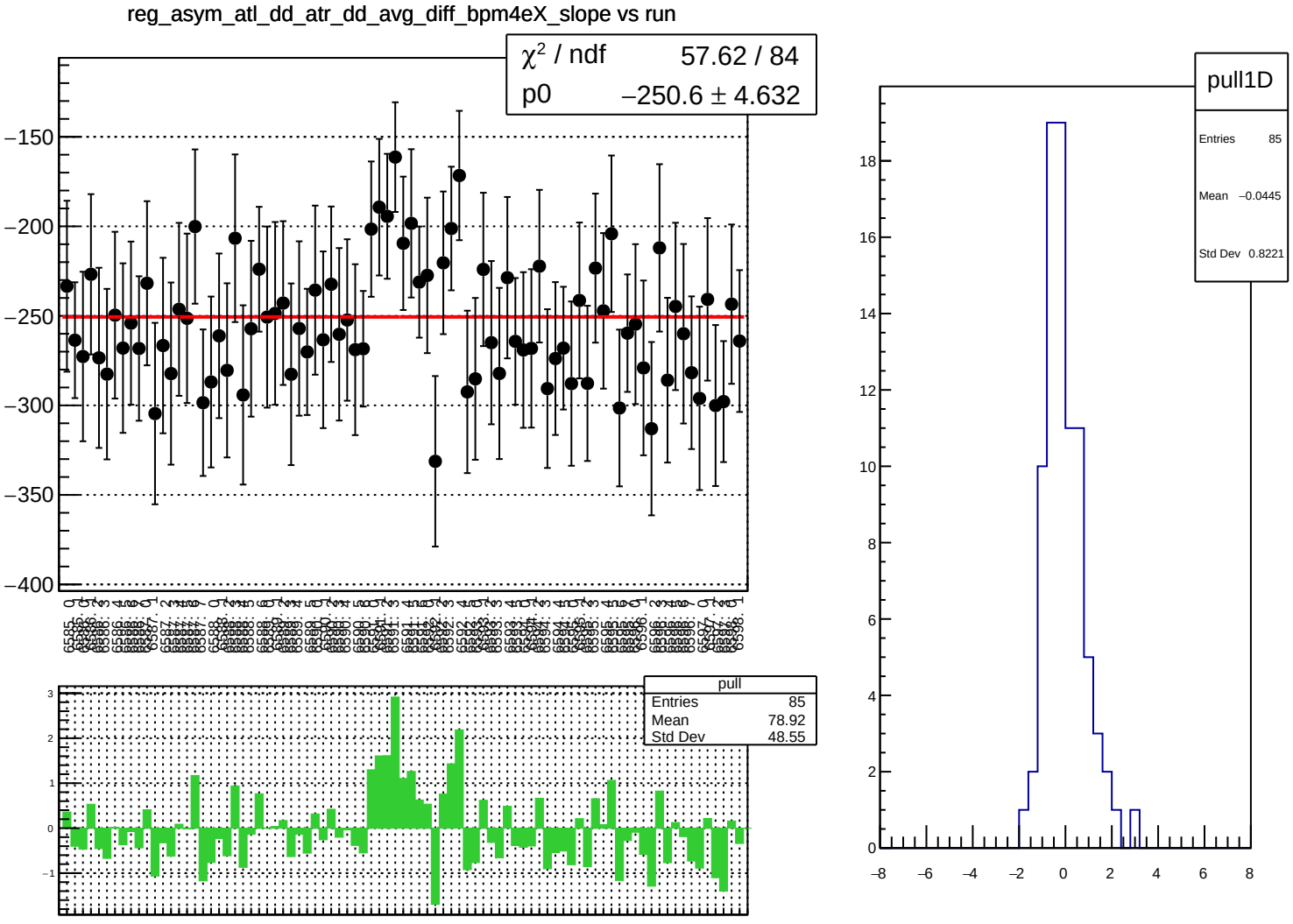

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 42.42 / 84
p0 155.9 ± 0.217
162
160
158
156
154
152
150
pull
Entries 85
Mean −610.2
Std Dev 642.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.006269
Std Dev 0.7064
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

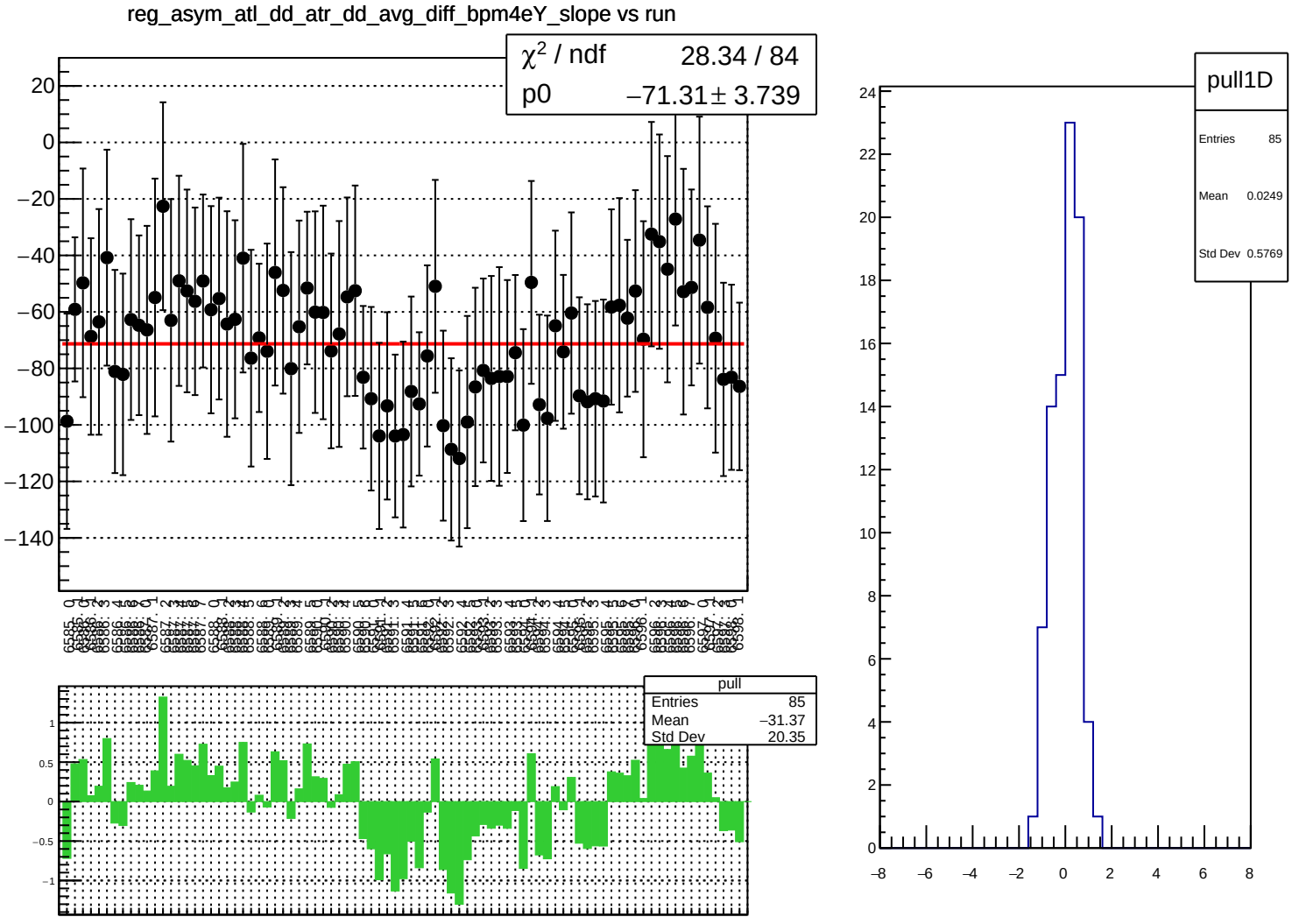

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 56.09 / 84
p0 214 ± 4.357
pull
Entries 85
Mean 76.74
Std Dev 51.05

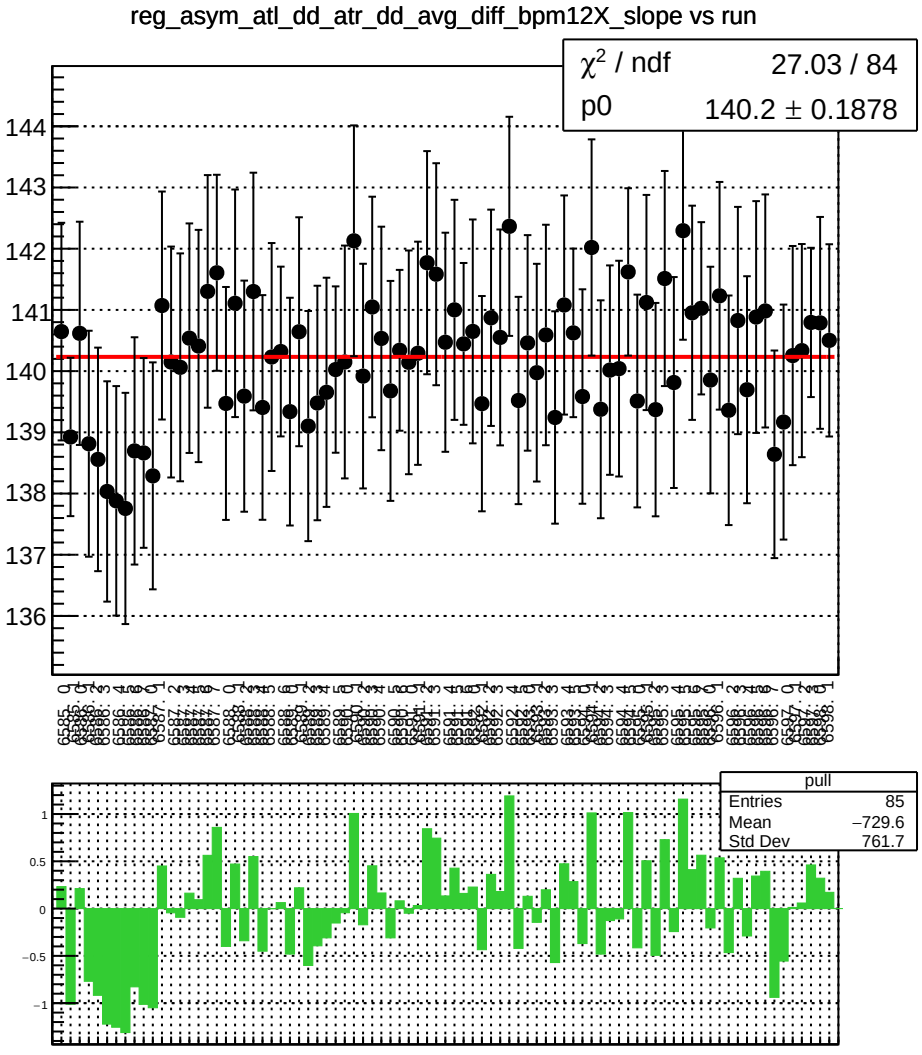

pull1D
Entries 85
Mean 0.04136
Std Dev 0.8113

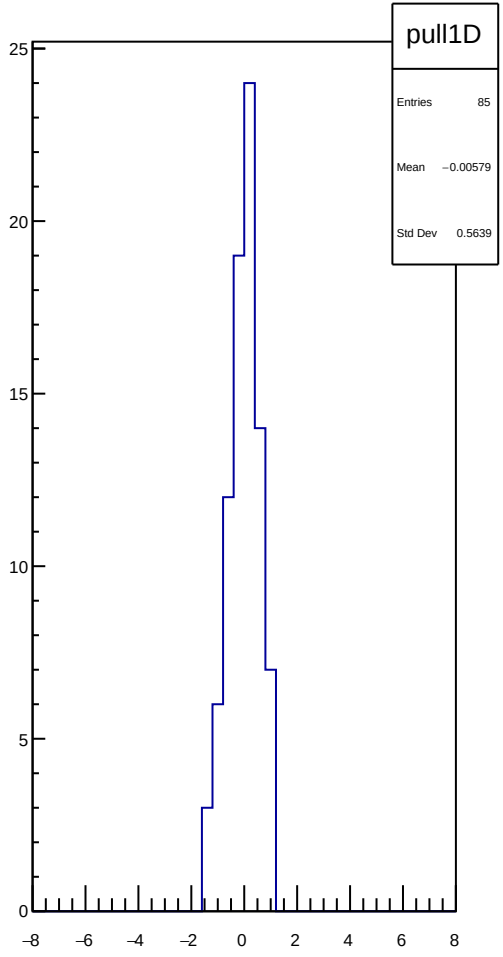

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.41 / 84
p0 −3.913 ± 3.104
pull
Entries 85
Mean −26.57
Std Dev 34.05


pull1D
Entries 85
Mean −0.01766
Std Dev 0.4897

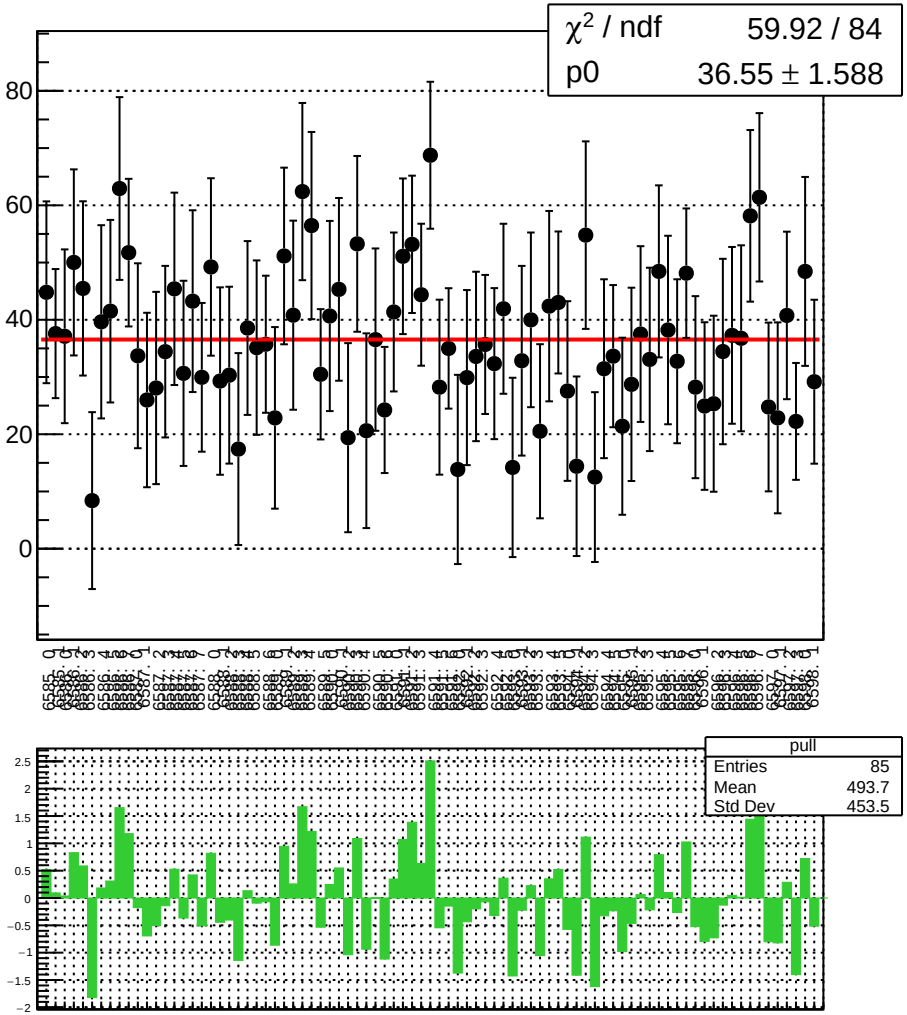

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.62 / 84
p0 −250.6 ± 4.632
pull
Entries 85
Mean 78.92
Std Dev 48.55
pull1D
Entries 85
Mean −0.0445
Std Dev 0.8221

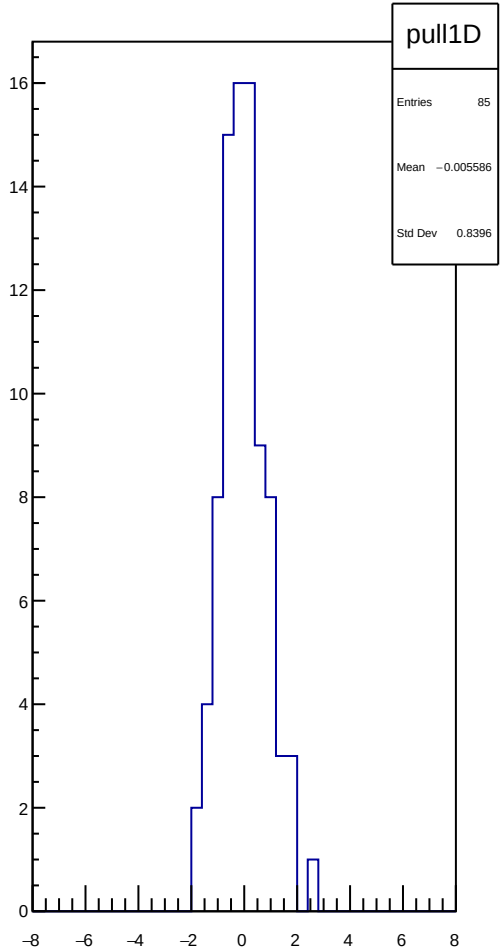

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.34 / 84
p0 −71.31 ± 3.739
pull
Entries 85
Mean −31.37
Std Dev 20.35
pull1D
Entries 85
Mean 0.0249
Std Dev 0.5769

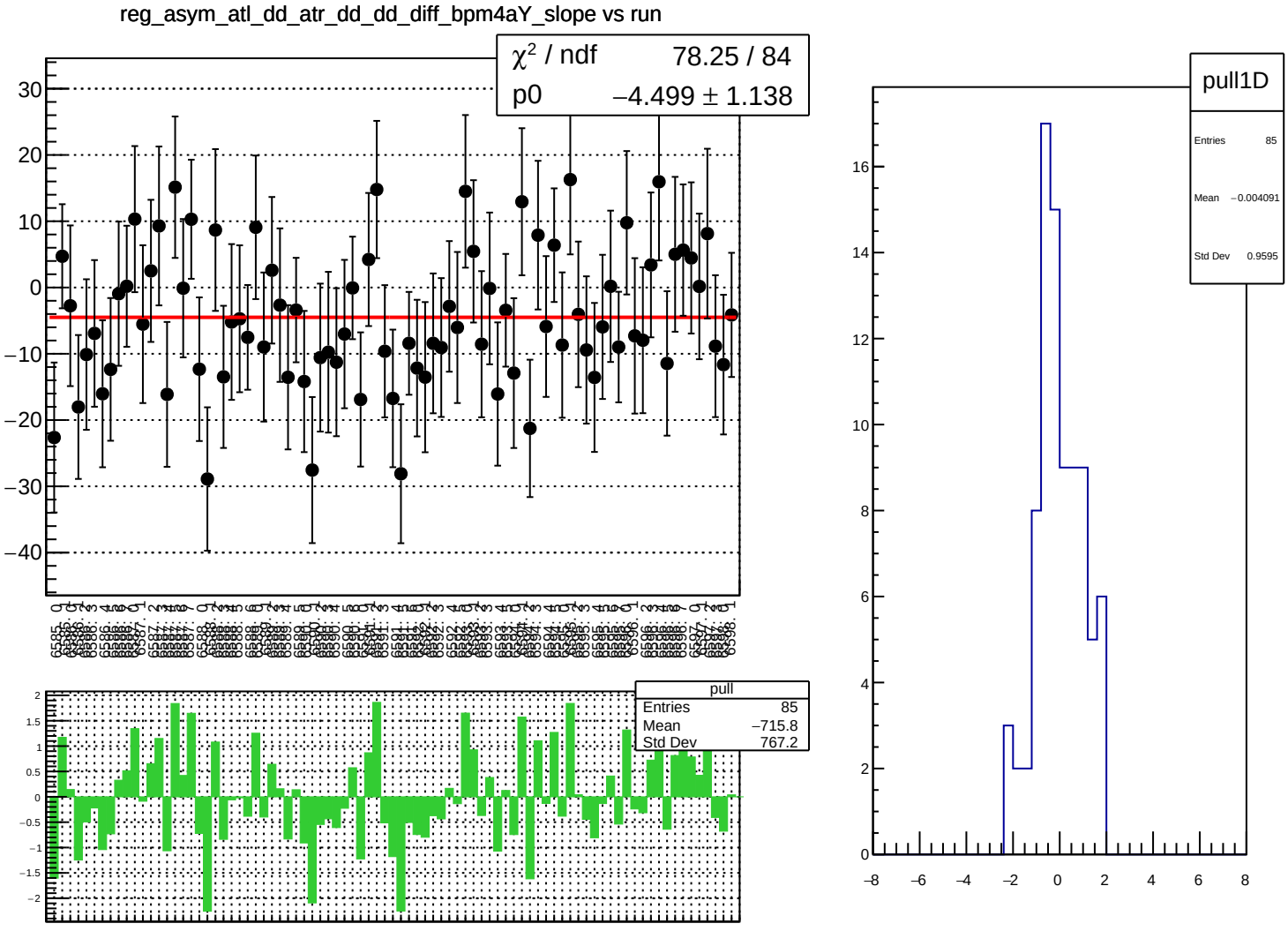

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.03 / 84
p0 140.2 ± 0.1878
144
143
142
141
140
139
138
137
136
pull
Entries 85
Mean −729.6
Std Dev 761.7
1
0.5
0
−0.5
−1

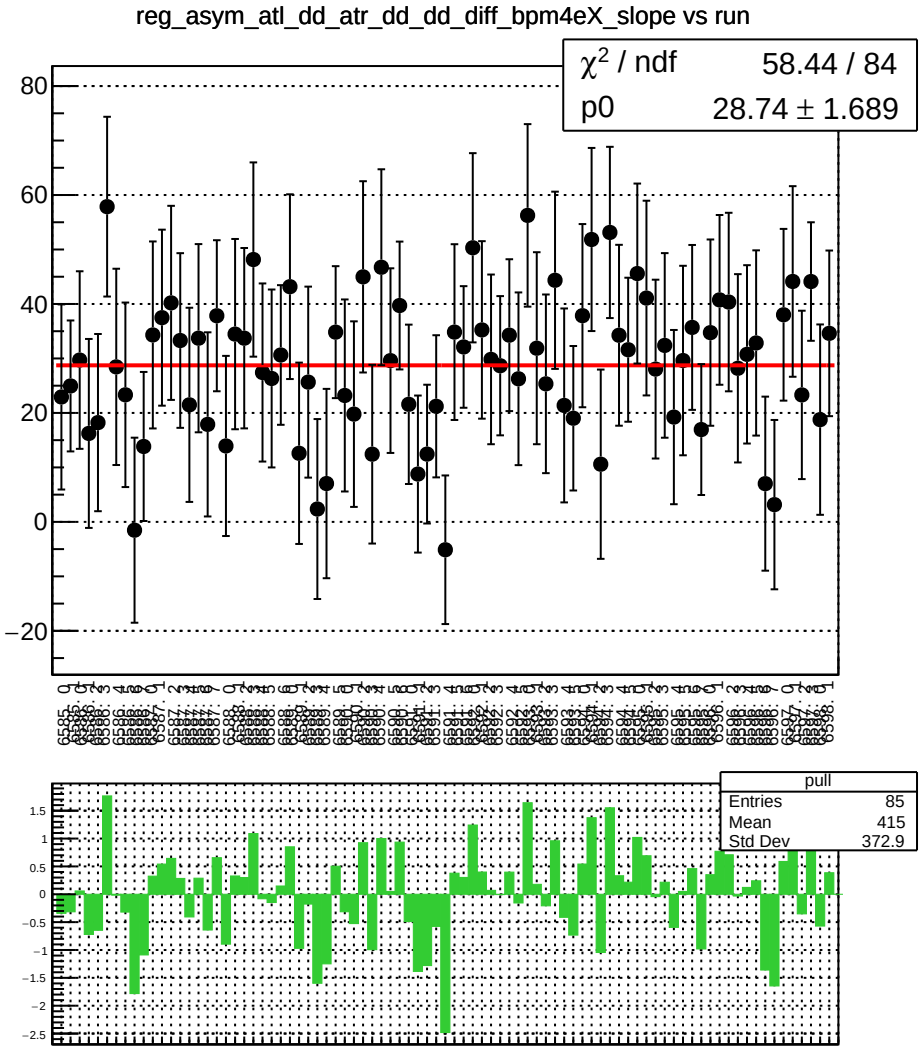

pull1D
Entries 85
Mean −0.00579
Std Dev 0.5639
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

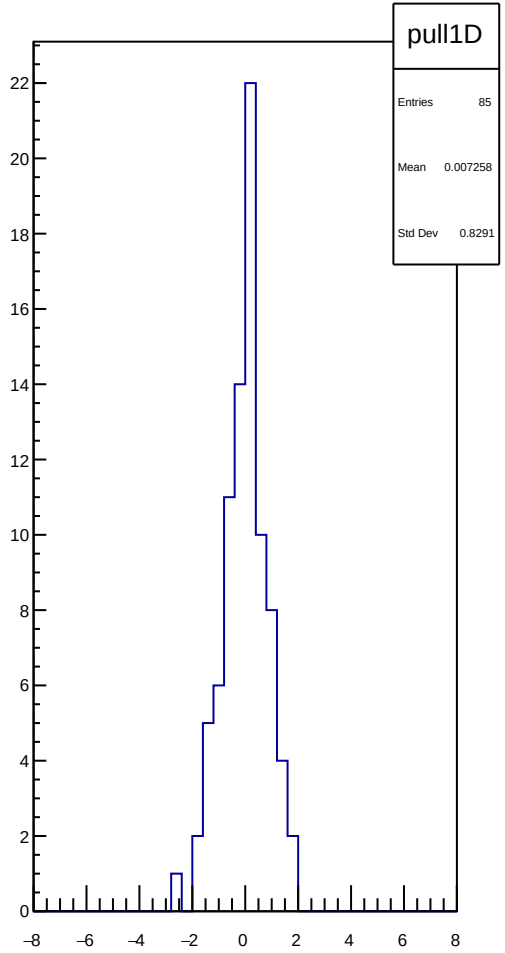
reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run

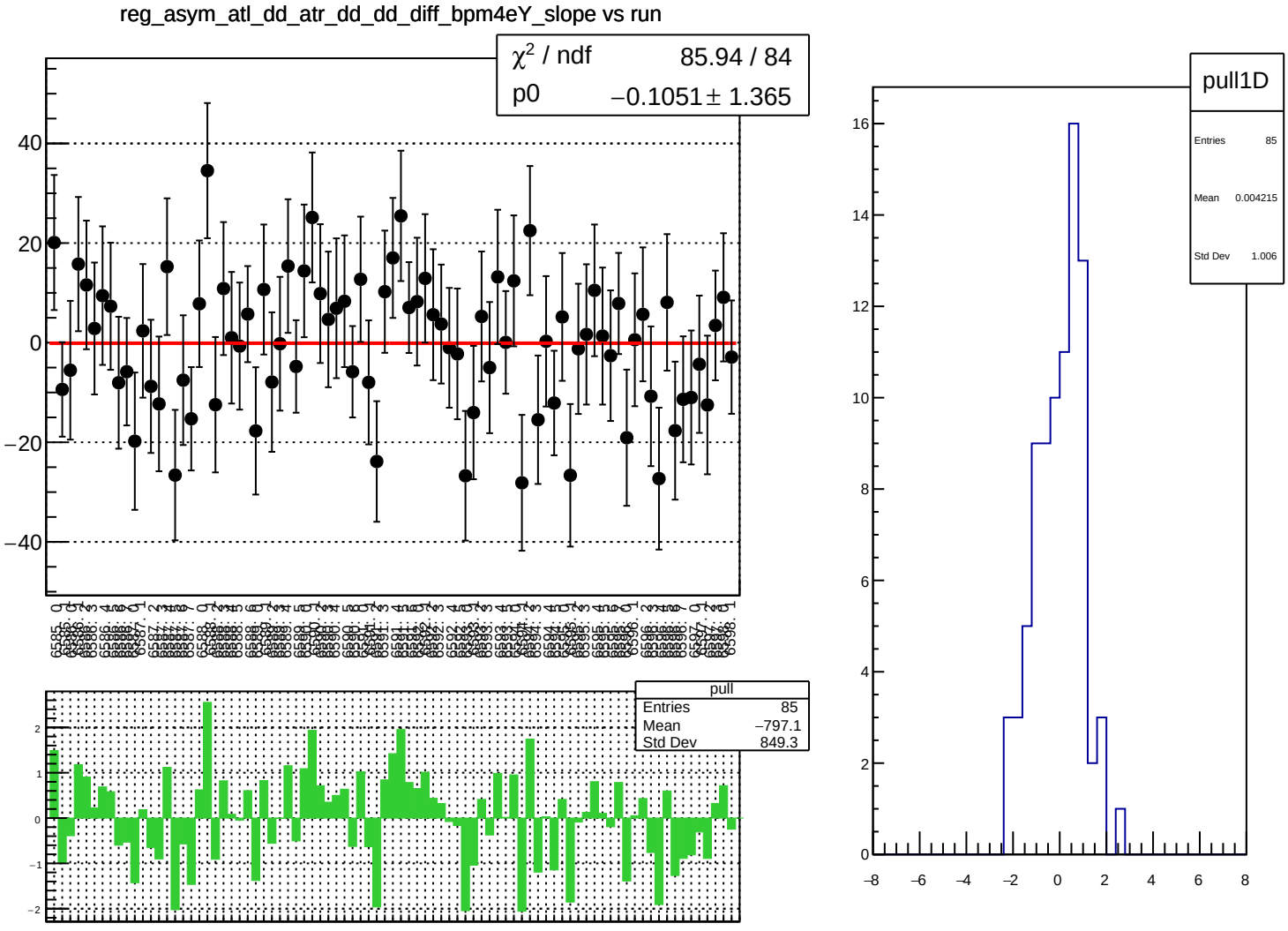




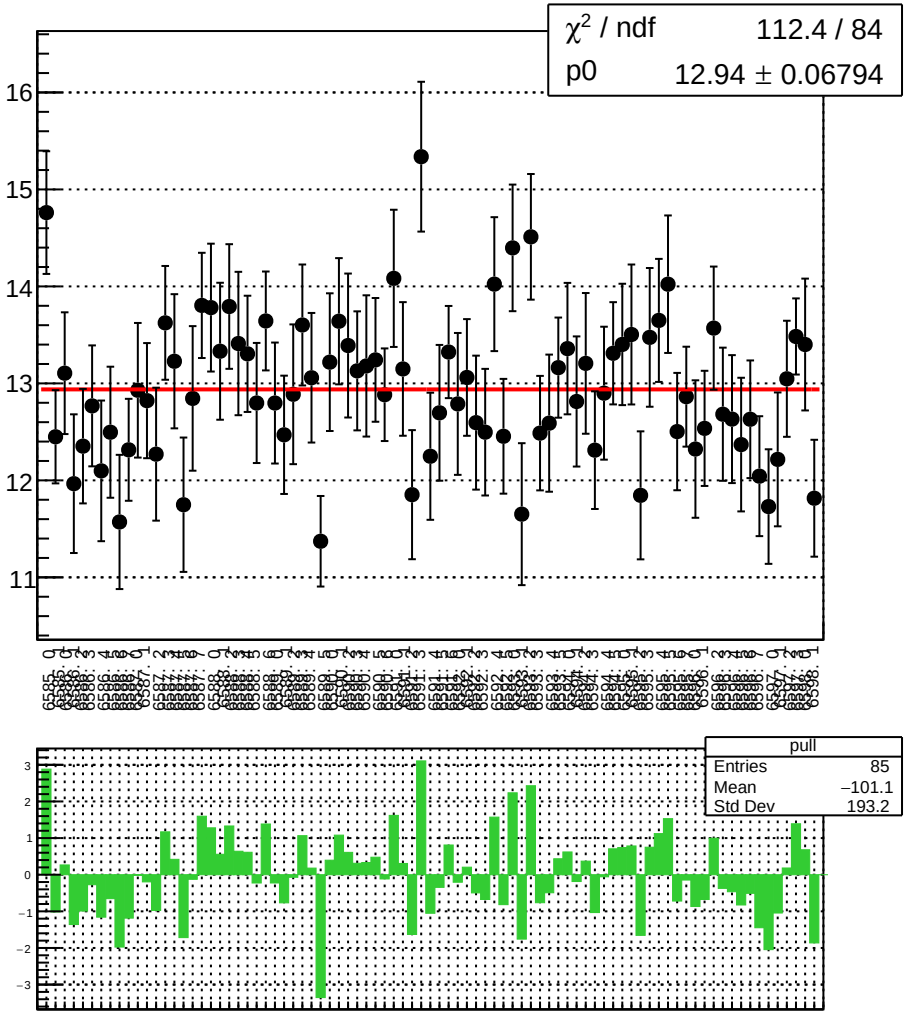

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.25 / 84
p0 −4.499 ± 1.138
pull
Entries 85
Mean −715.8
Std Dev 767.2
pull1D
Entries 85
Mean −0.004091
Std Dev 0.9595

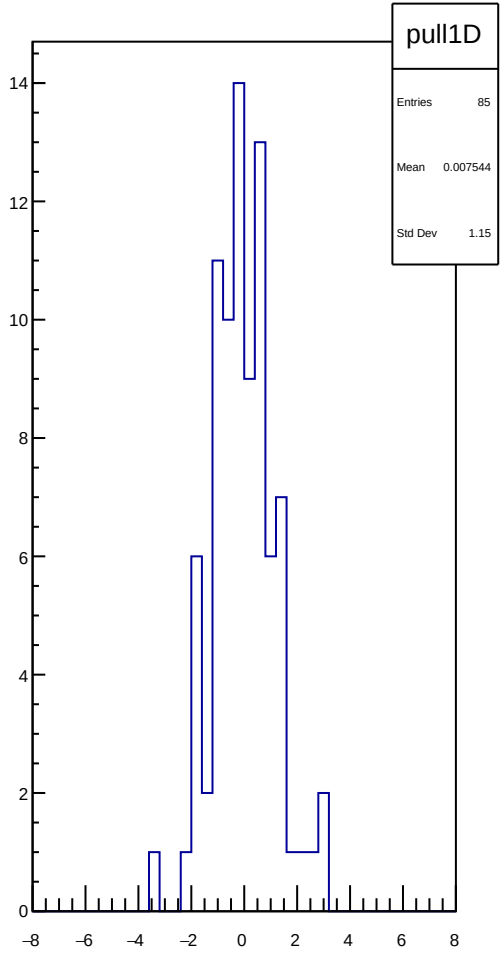

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.44 / 84
p0 28.74 ± 1.689
pull
Entries 85
Mean 415
Std Dev 372.9

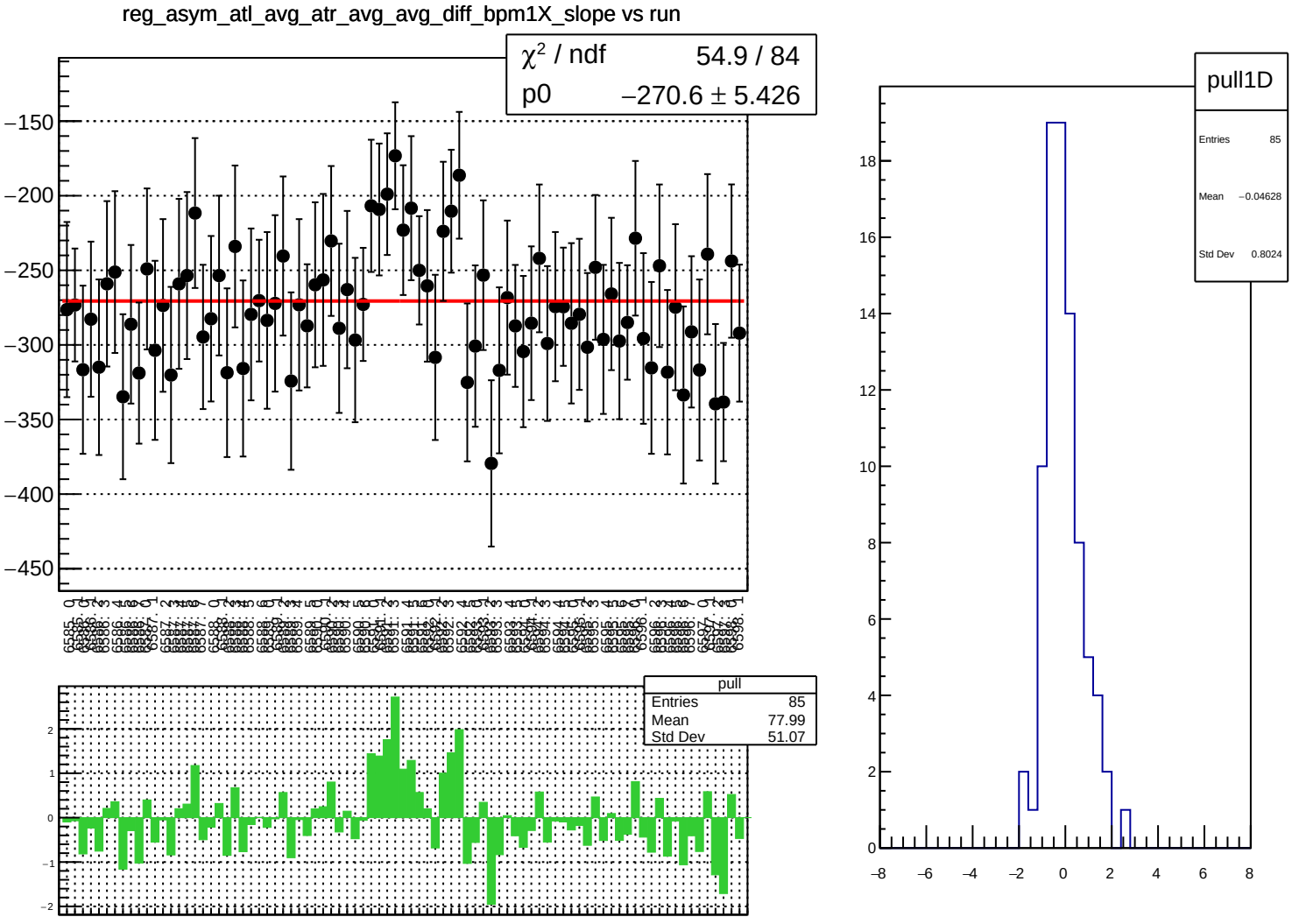

pull1D
Entries 85
Mean 0.007258
Std Dev 0.8291

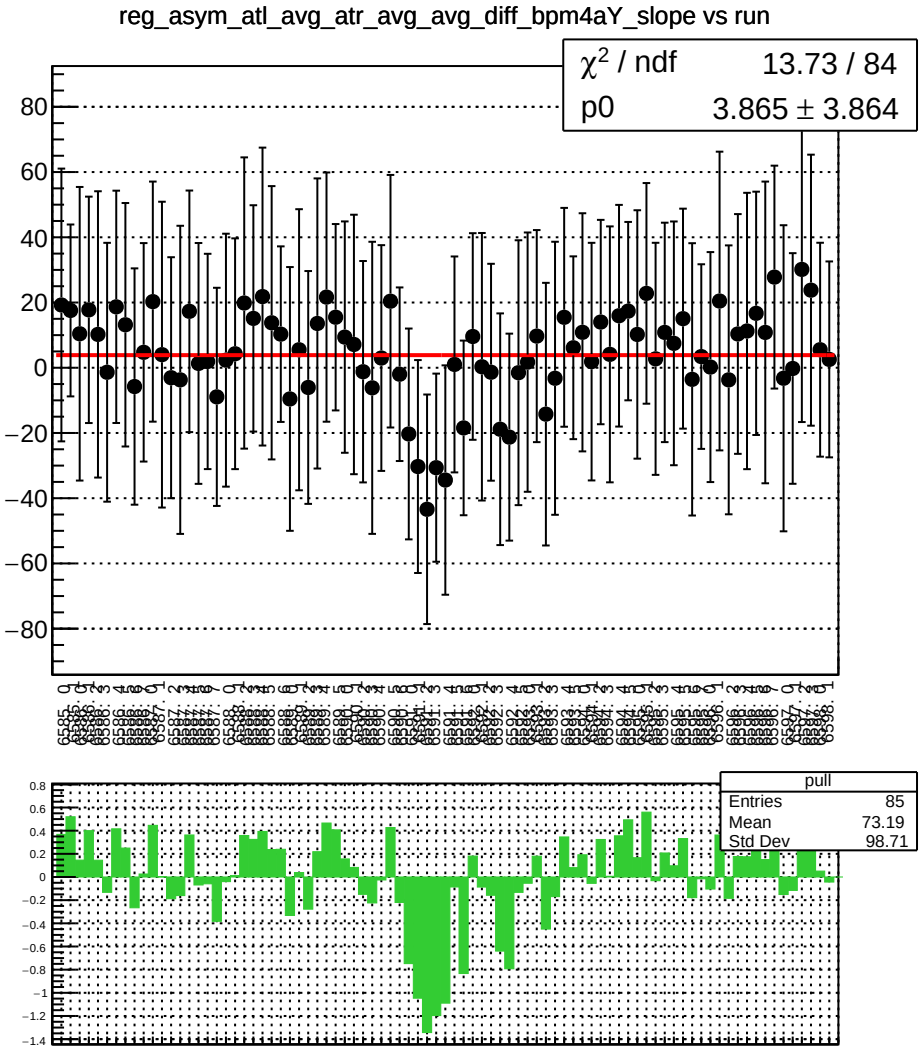

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.94 / 84
p0 −0.1051 ± 1.365
pull
Entries 85
Mean −797.1
Std Dev 849.3
pull1D
Entries 85
Mean 0.004215
Std Dev 1.006

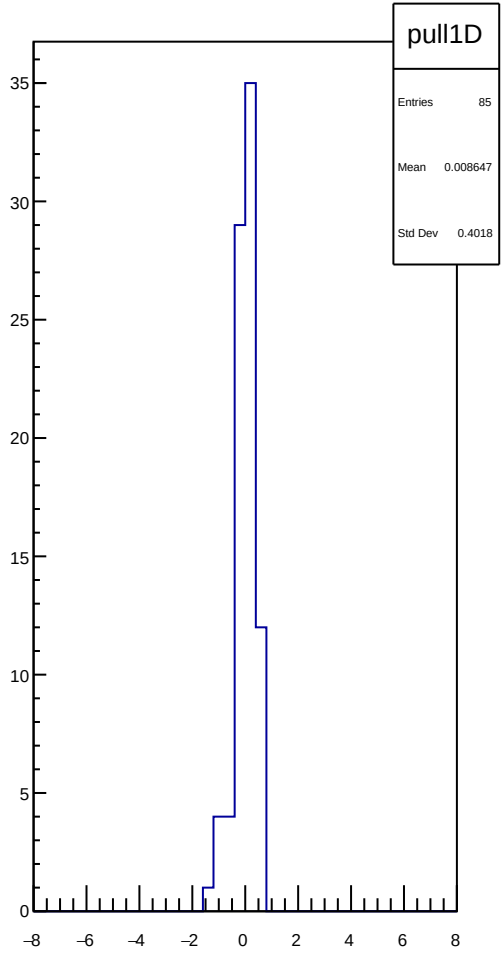
reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run

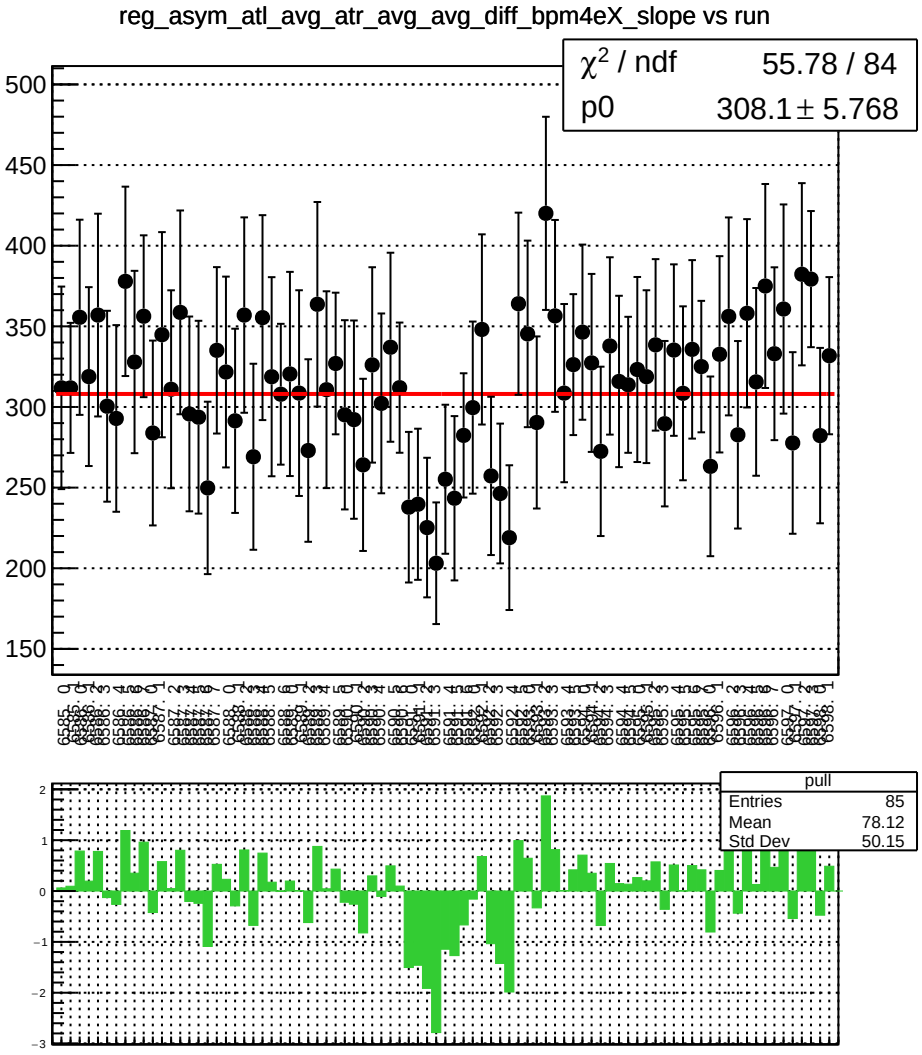


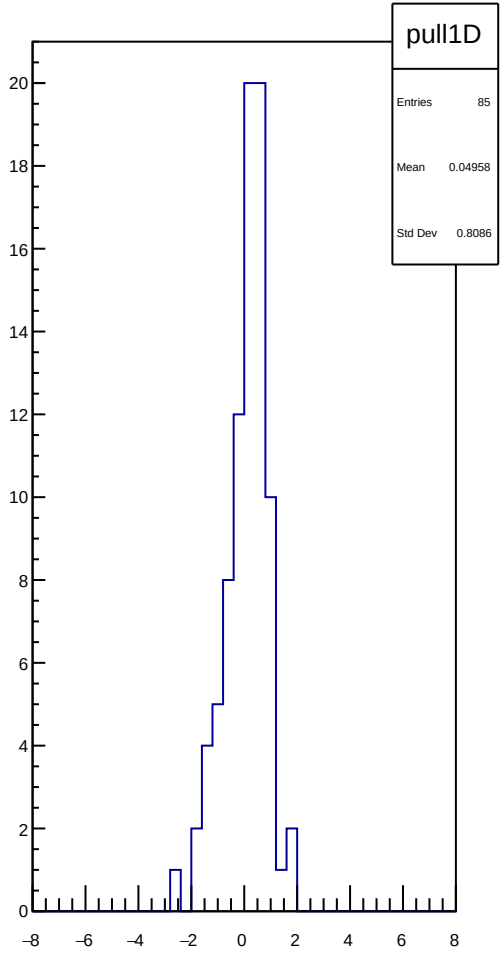


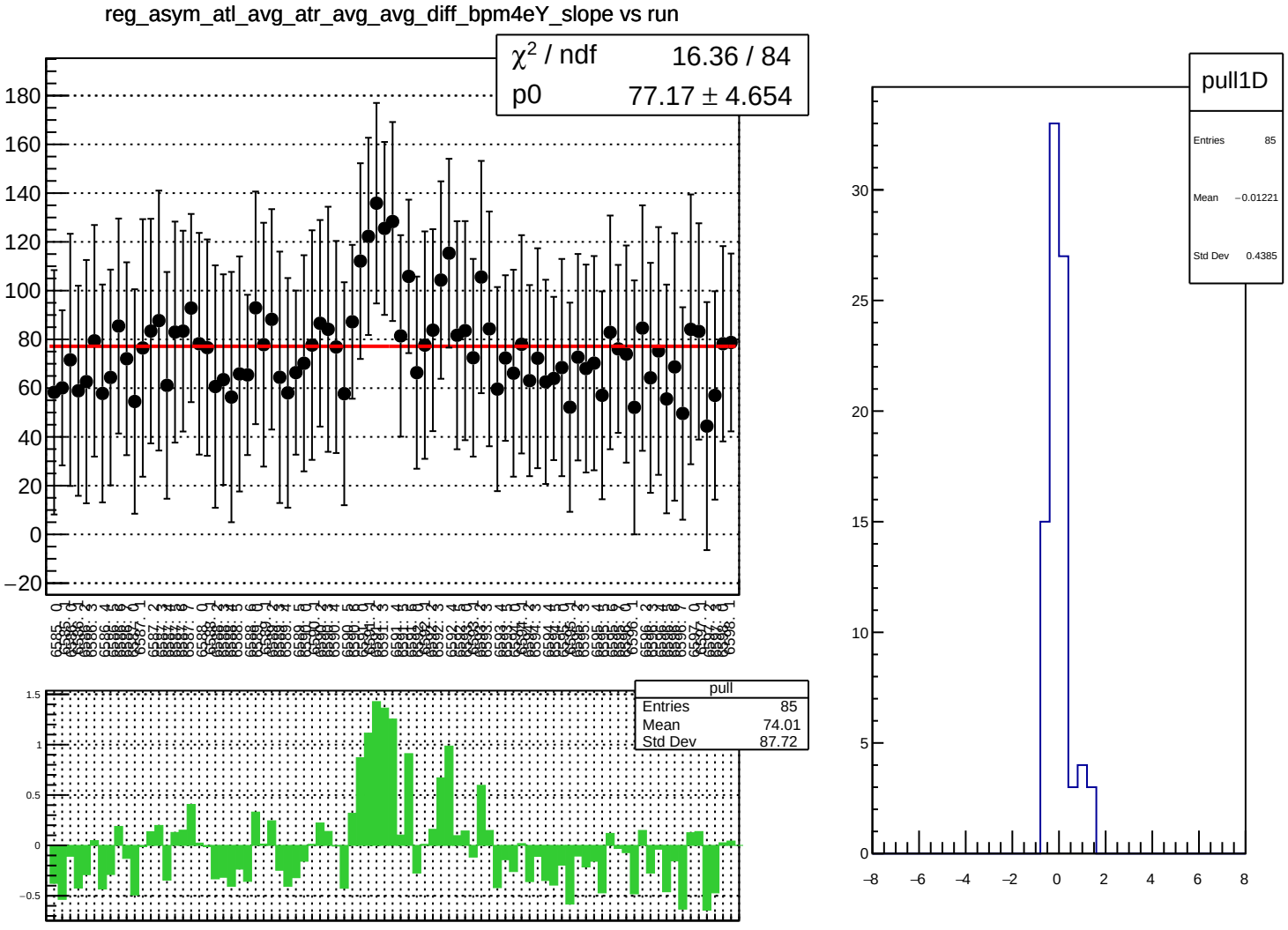

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ^2 / ndf 54.9 / 84
p0 −270.6 ± 5.426
pull
Entries 85
Mean 77.99
Std Dev 51.07
pull1D
Entries 85
Mean −0.04628
Std Dev 0.8024

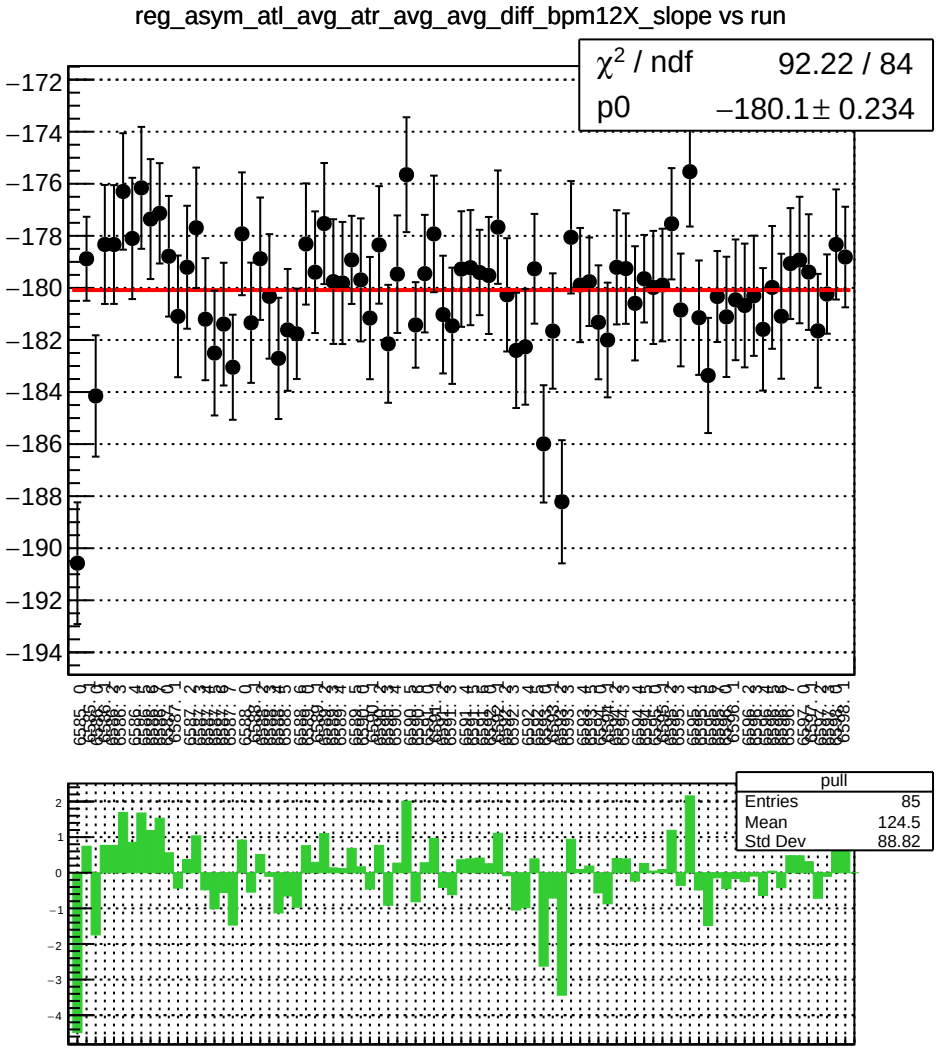

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.73 / 84
p0 3.865 ± 3.864
pull
Entries 85
Mean 73.19
Std Dev 98.71

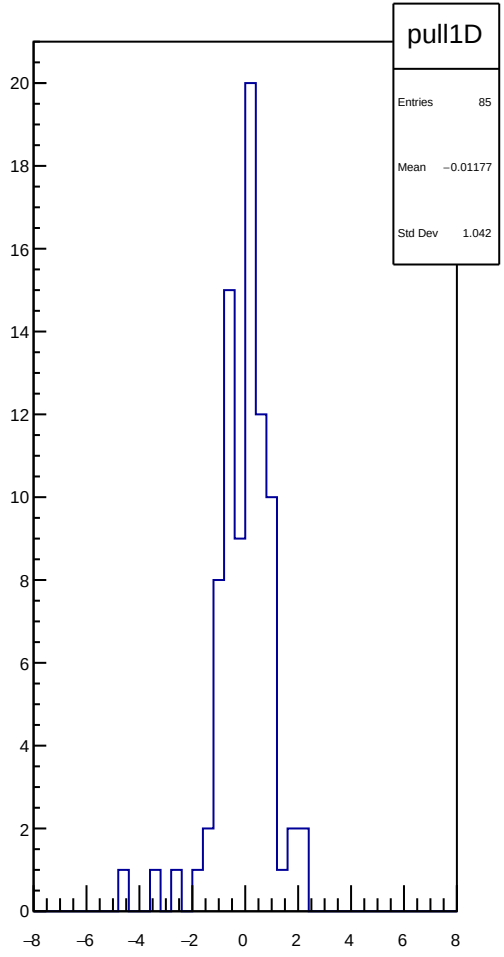

pull1D
Entries 85
Mean 0.008647
Std Dev 0.4018

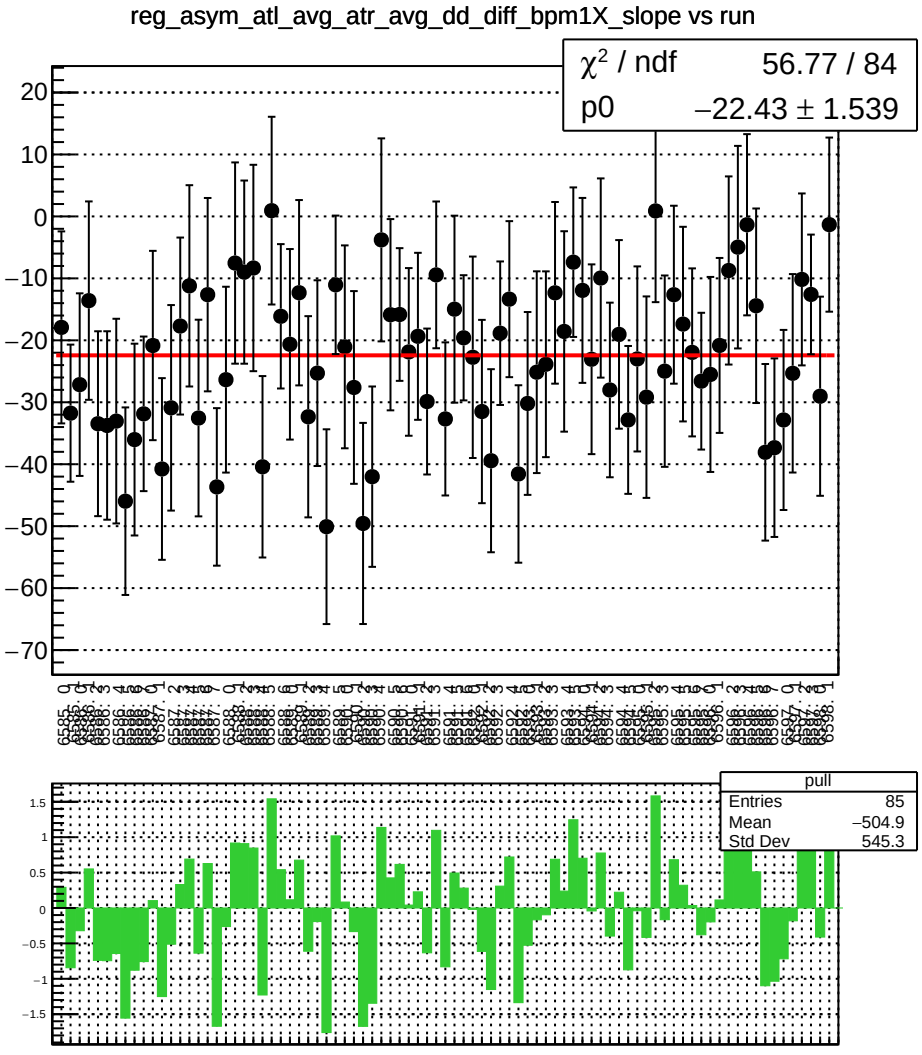

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 55.78 / 84
p0 308.1 ± 5.768
pull
Entries 85
Mean 78.12
Std Dev 50.15

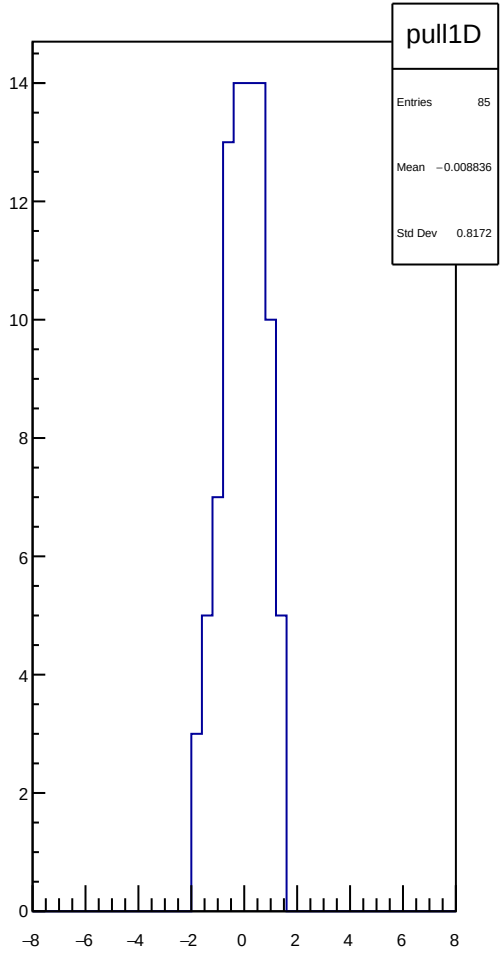

pull1D
Entries 85
Mean 0.04958
Std Dev 0.8086

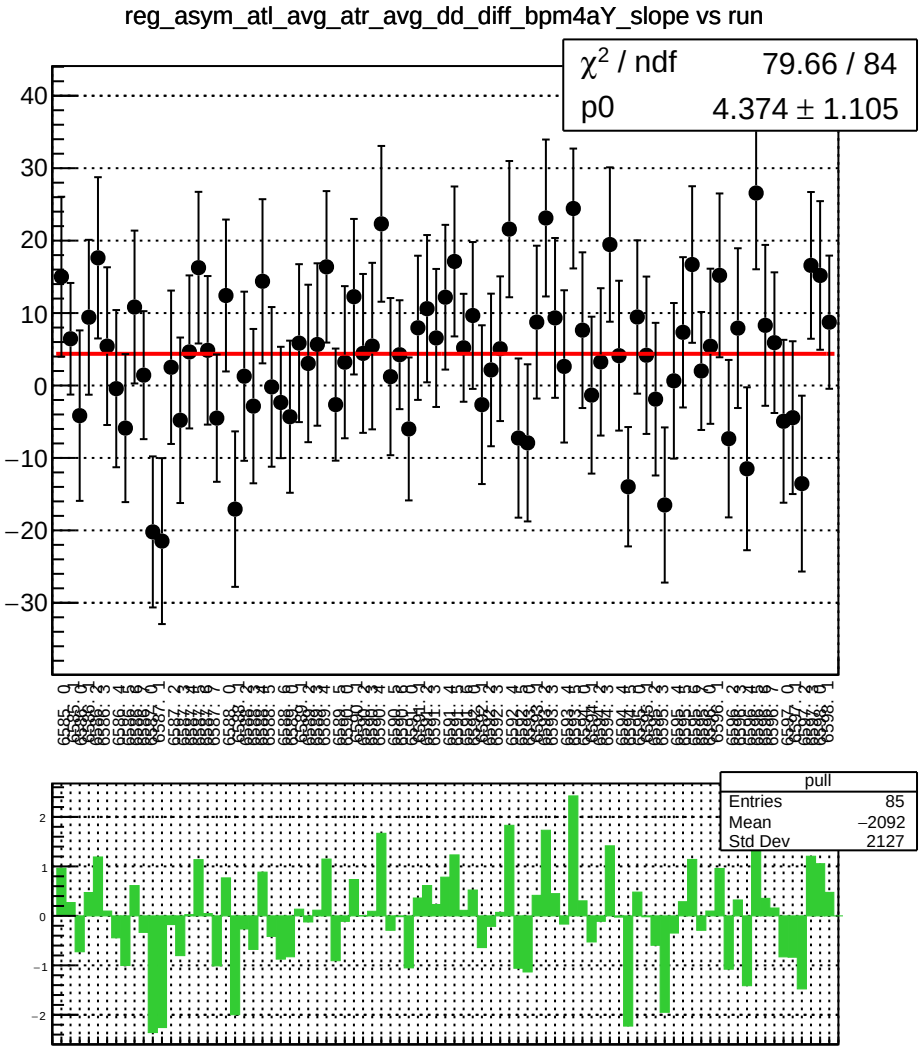

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.36 / 84
p0 77.17 ± 4.654
pull
Entries 85
Mean 74.01
Std Dev 87.72
pull1D
Entries 85
Mean −0.01221
Std Dev 0.4385

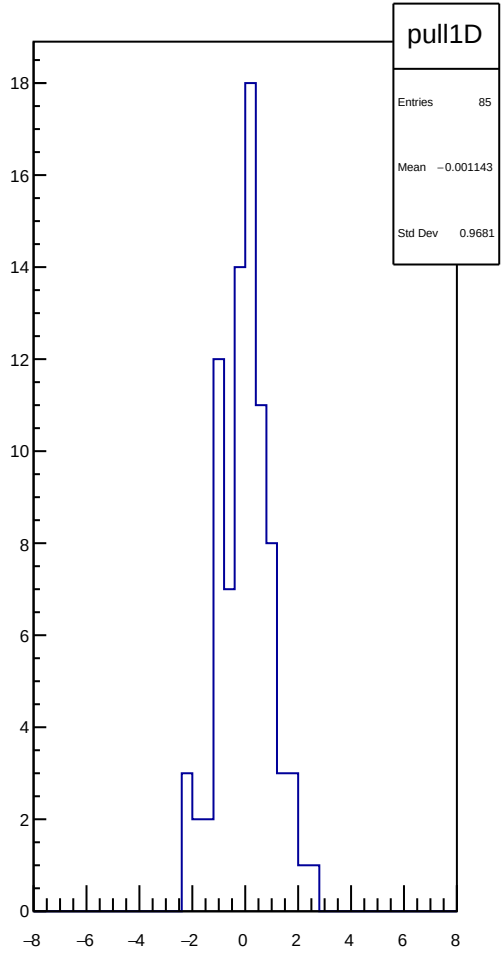

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 92.22 / 84
p0 −180.1 ± 0.234
pull
Entries 85
Mean 124.5
Std Dev 88.82

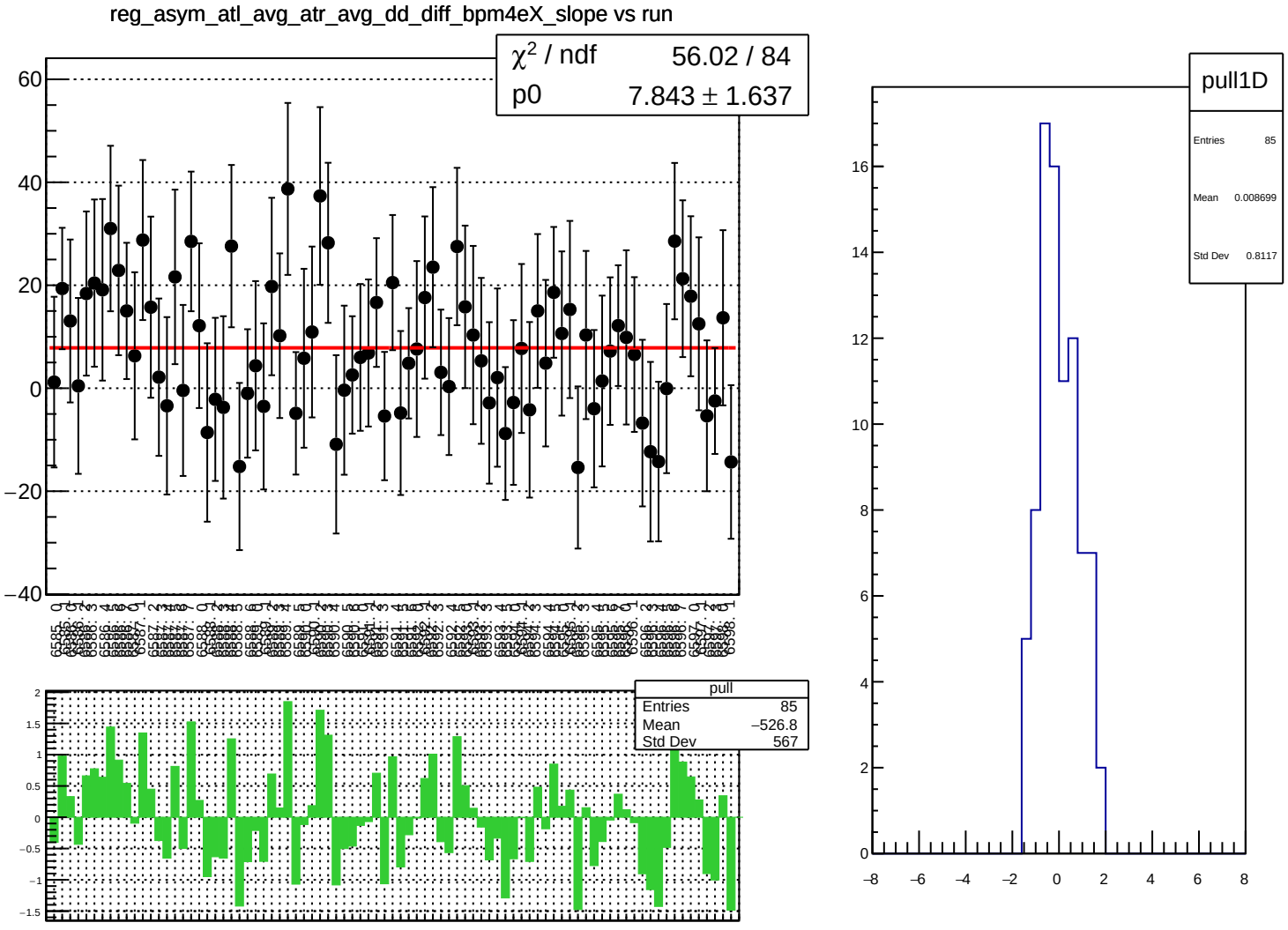

pull1D
Entries 85
Mean −0.01177
Std Dev 1.042

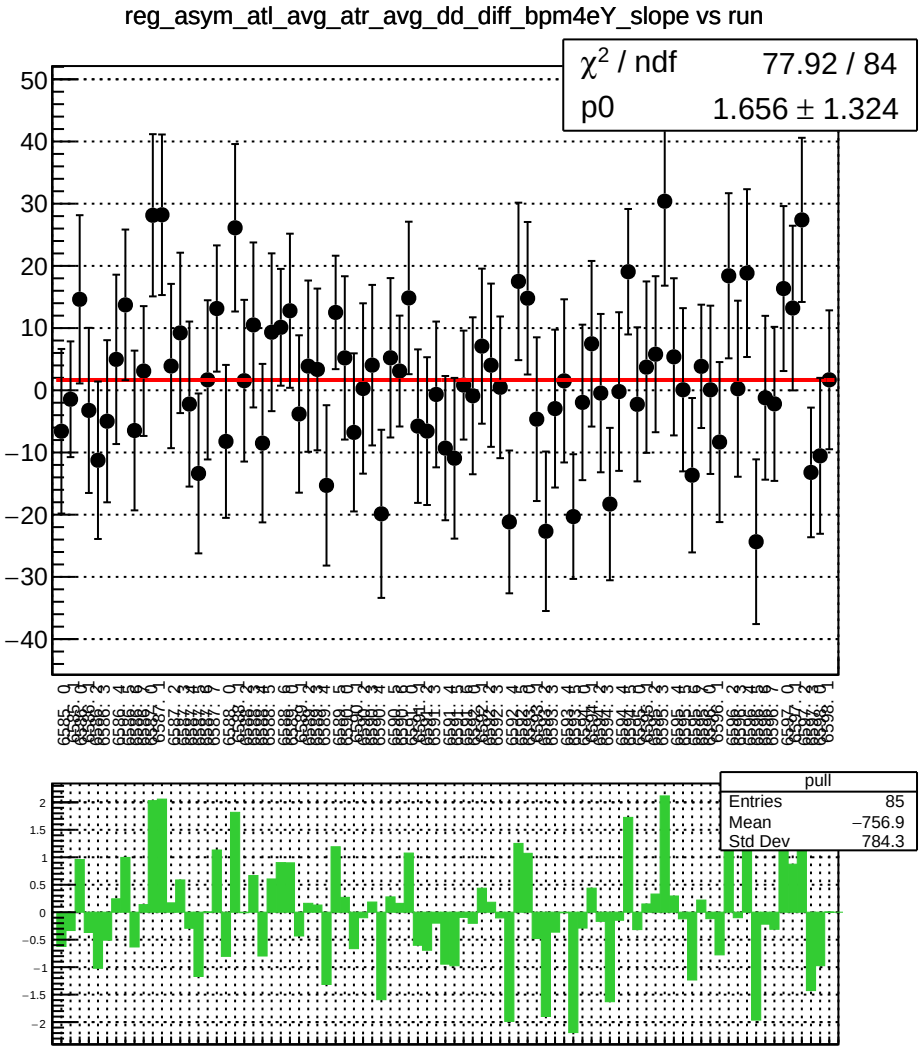

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 56.77 / 84
p0 −22.43 ± 1.539
pull
Entries 85
Mean −504.9
Std Dev 545.3

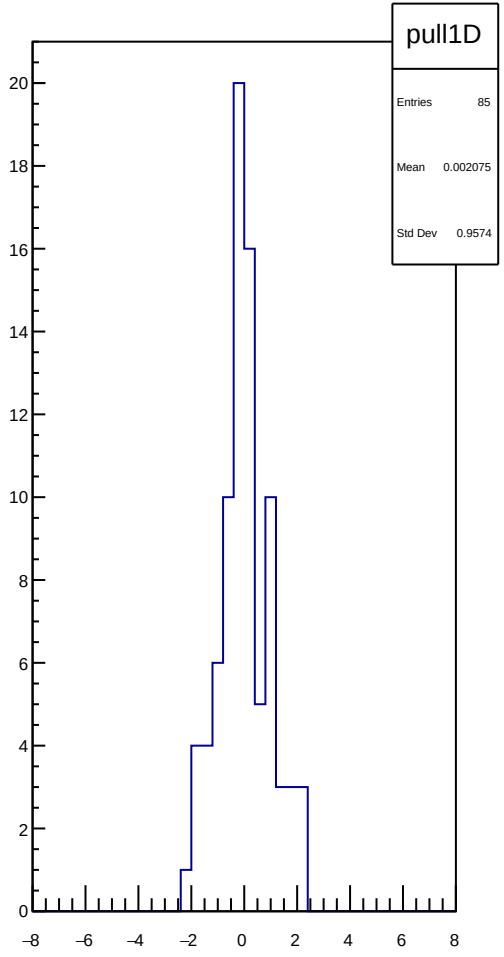

pull1D
Entries 85
Mean −0.008836
Std Dev 0.8172


reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.66 / 84
p0 4.374 ± 1.105
pull
Entries 85
Mean −2092
Std Dev 2127

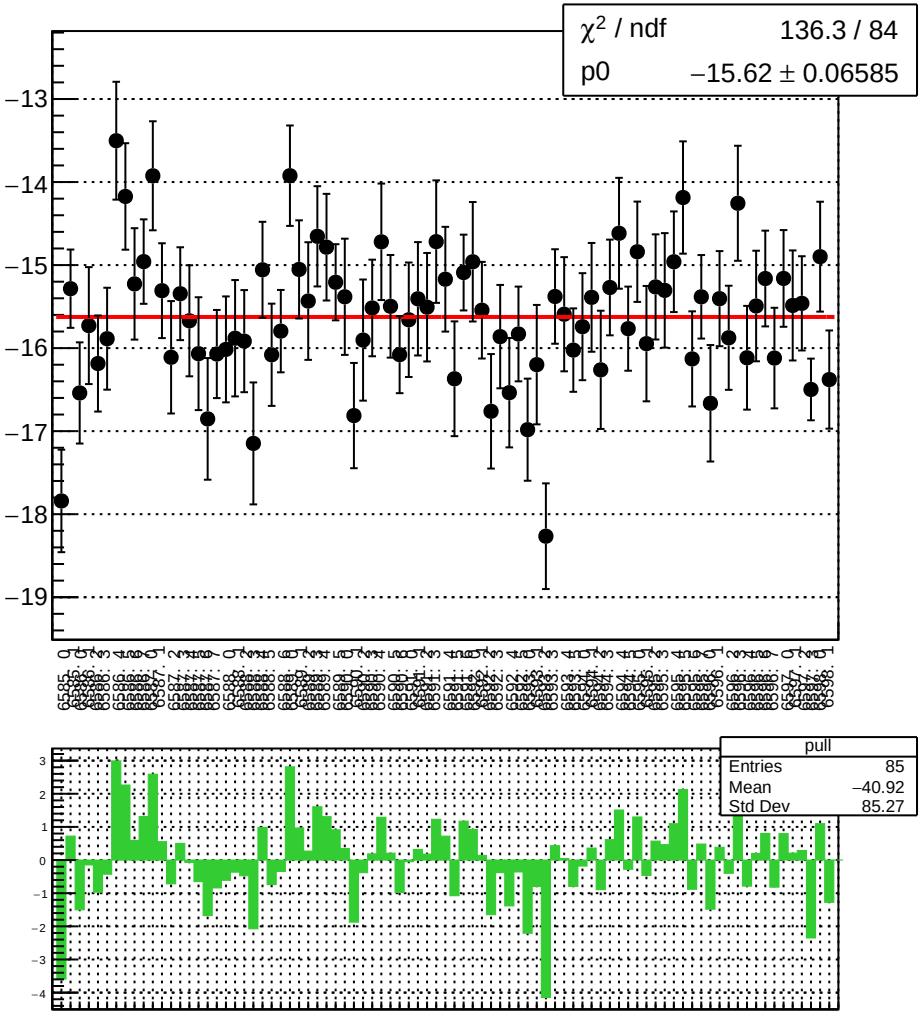

pull1D
Entries 85
Mean −0.001143
Std Dev 0.9681

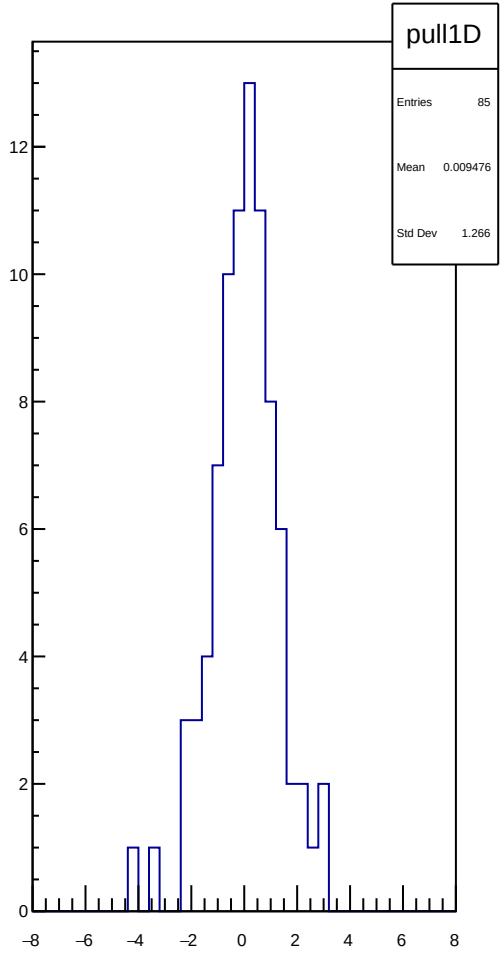

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.02 / 84
p0 7.843 ± 1.637
pull
Entries 85
Mean −526.8
Std Dev 567
pull1D
Entries 85
Mean 0.008699
Std Dev 0.8117

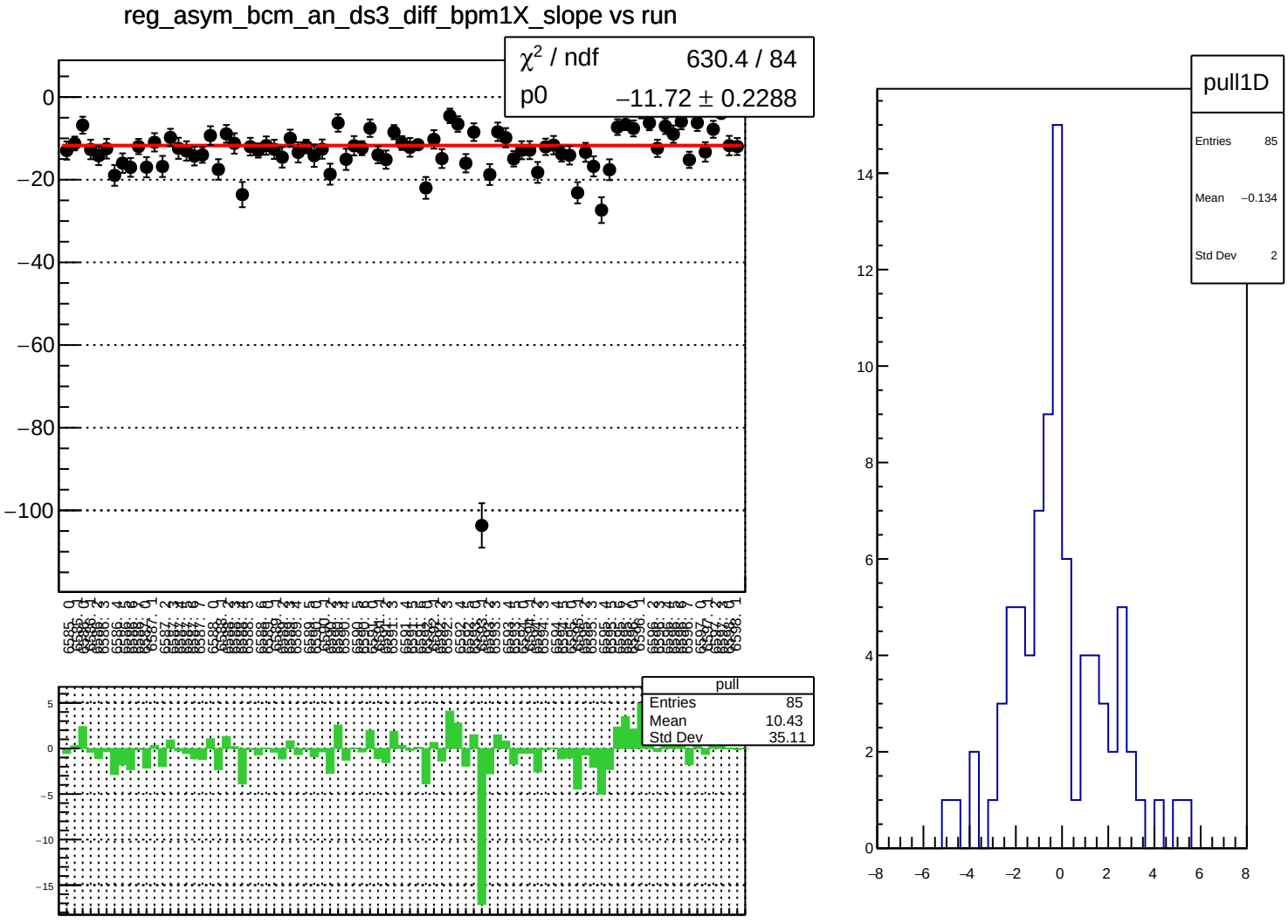

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.92 / 84
p0 1.656 ± 1.324
pull
Entries 85
Mean −756.9
Std Dev 784.3

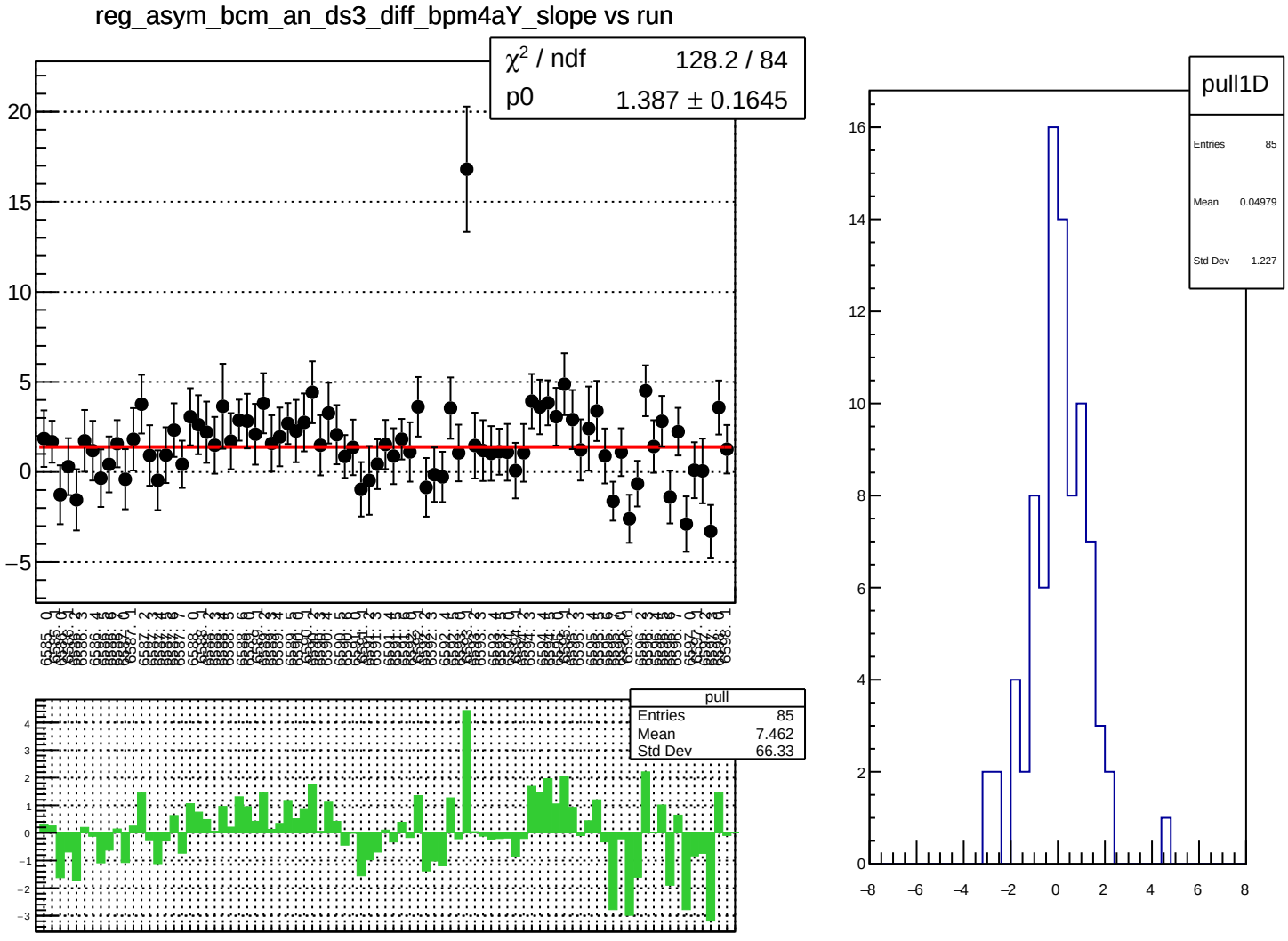

pull1D
Entries 85
Mean 0.002075
Std Dev 0.9574

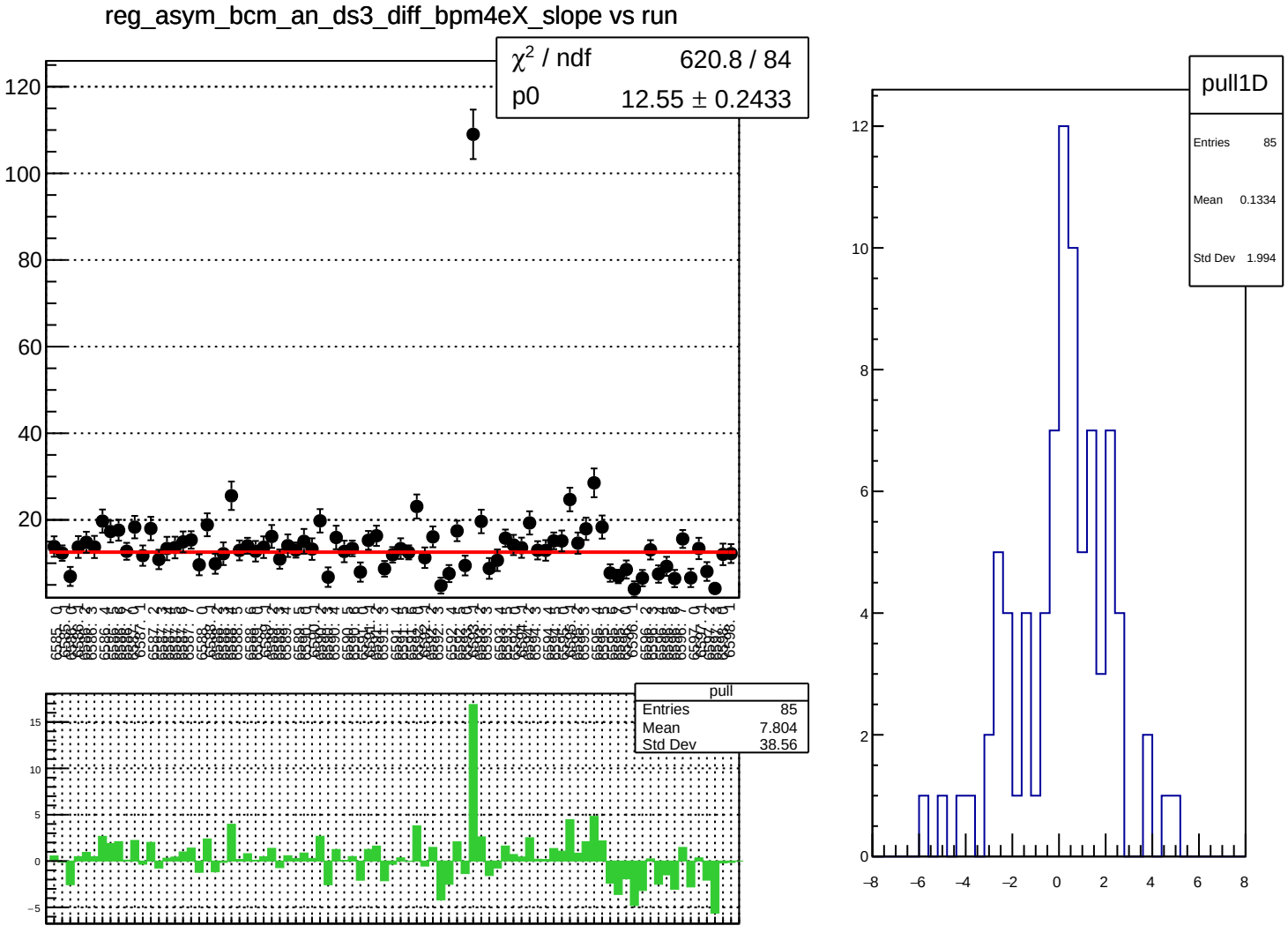
reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run

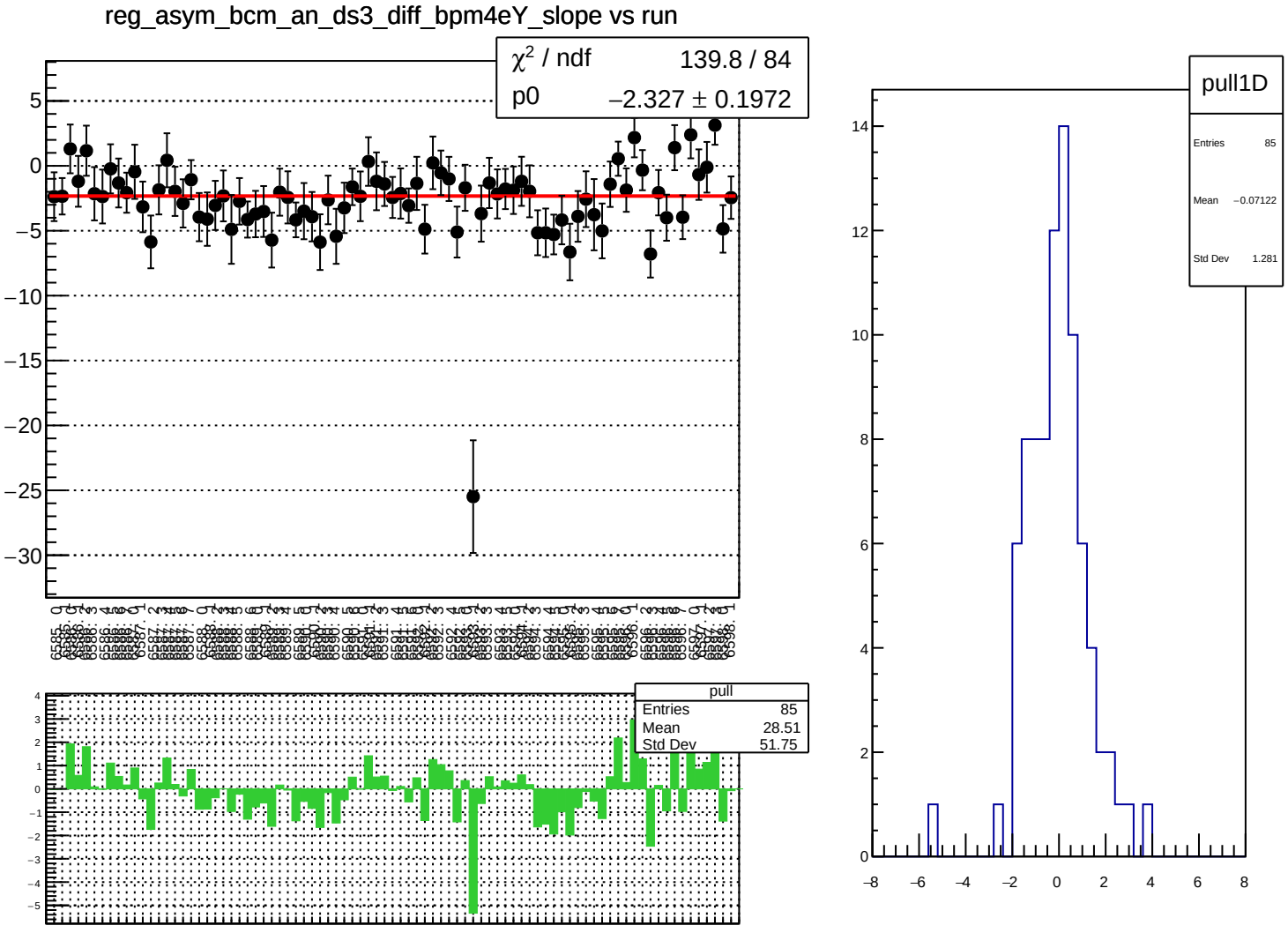


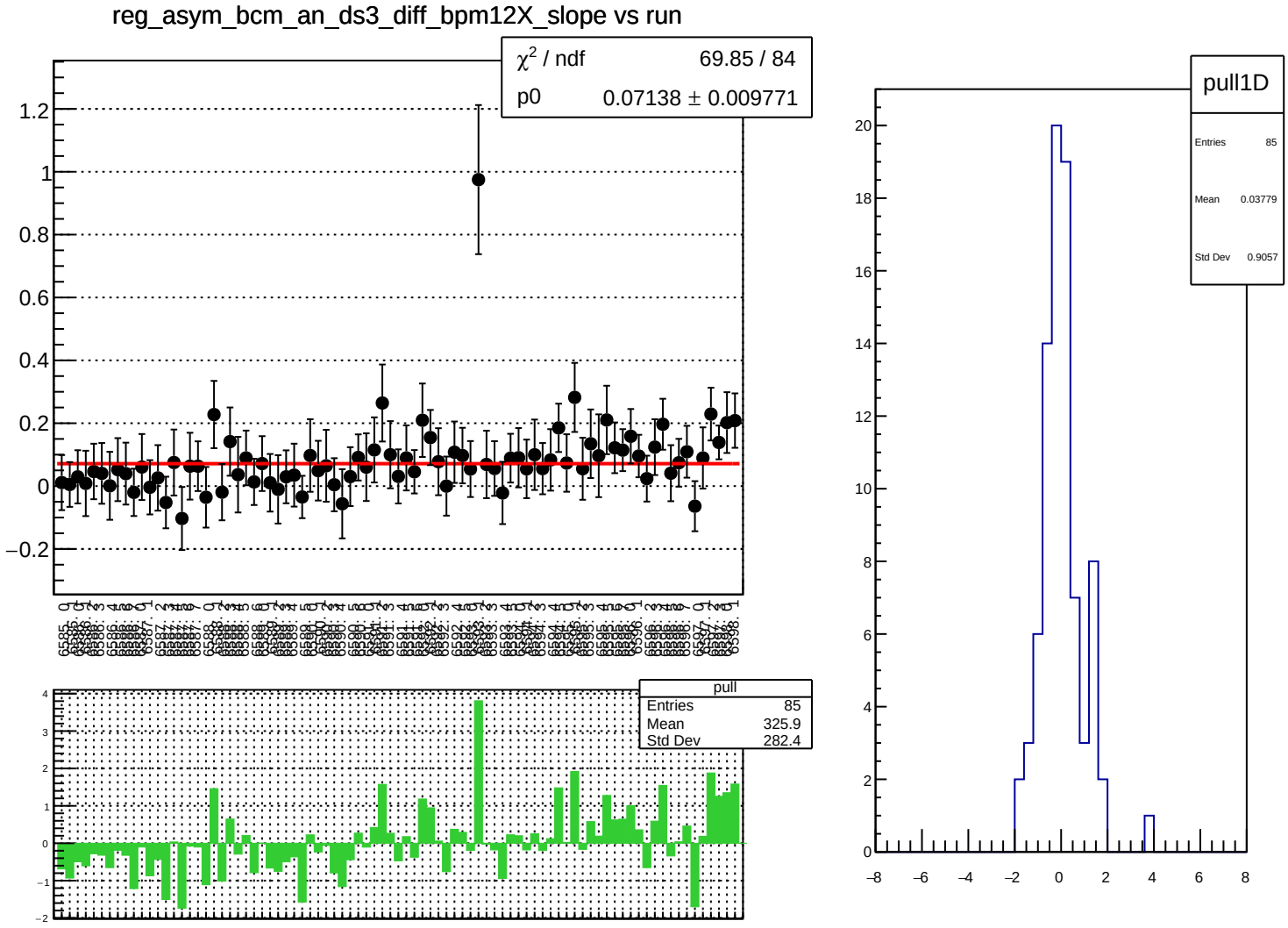


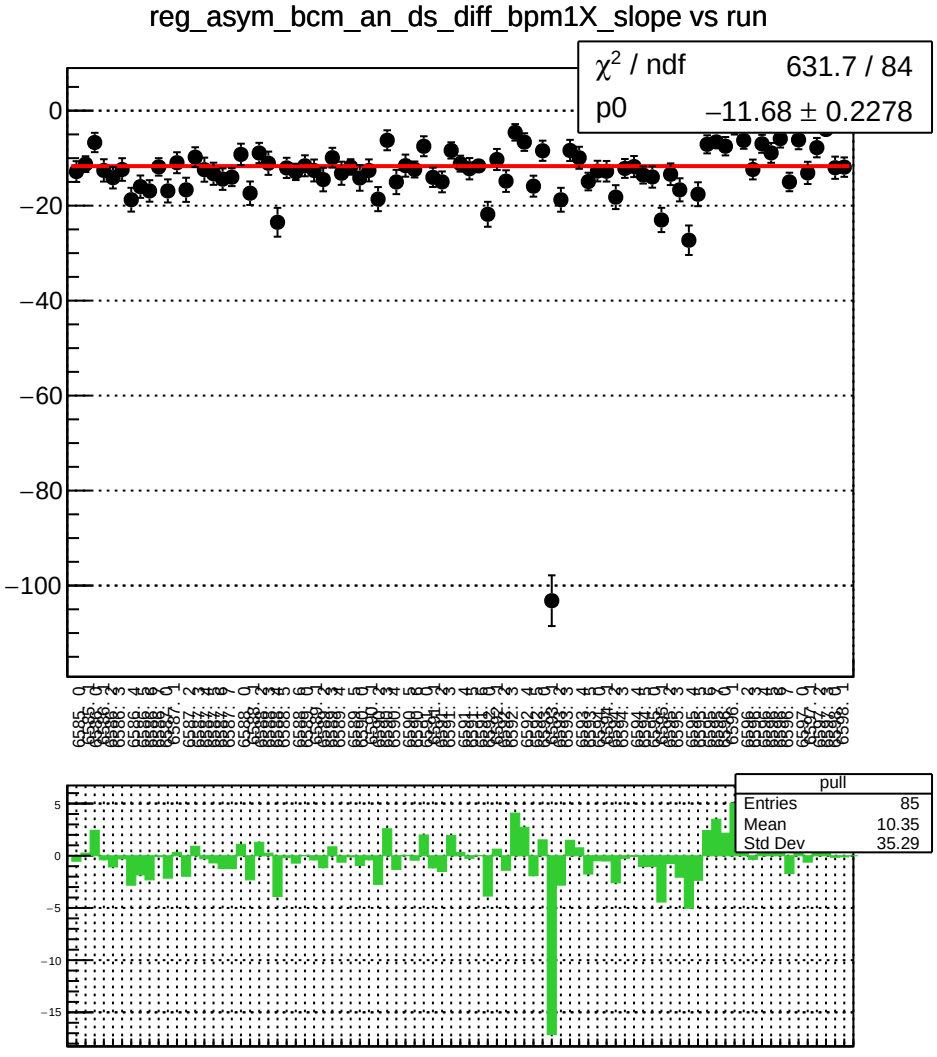

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 630.4 / 84
p0 −11.72 ± 0.2288
pull
Entries 85
Mean 10.43
Std Dev 35.11
pull1D
Entries 85
Mean −0.134
Std Dev 2

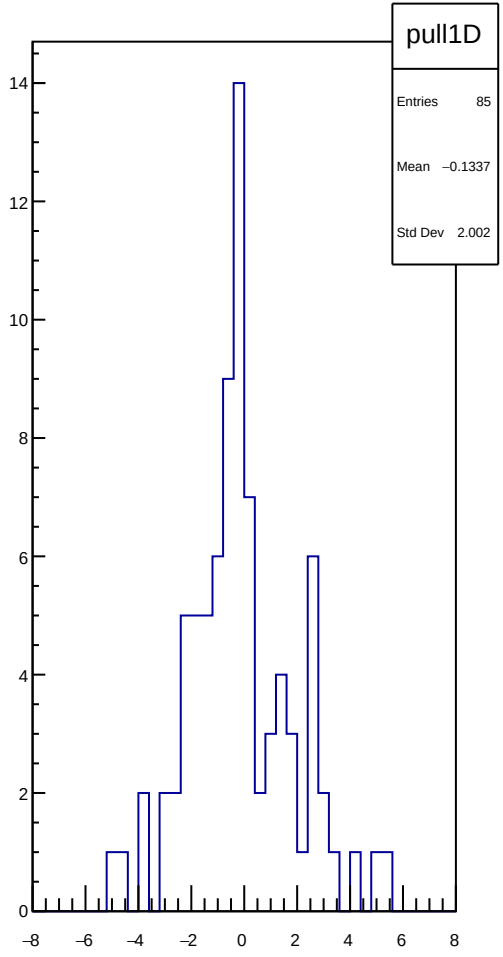

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 128.2 / 84
p0 1.387 ± 0.1645
pull
Entries 85
Mean 7.462
Std Dev 66.33
pull1D
Entries 85
Mean 0.04979
Std Dev 1.227

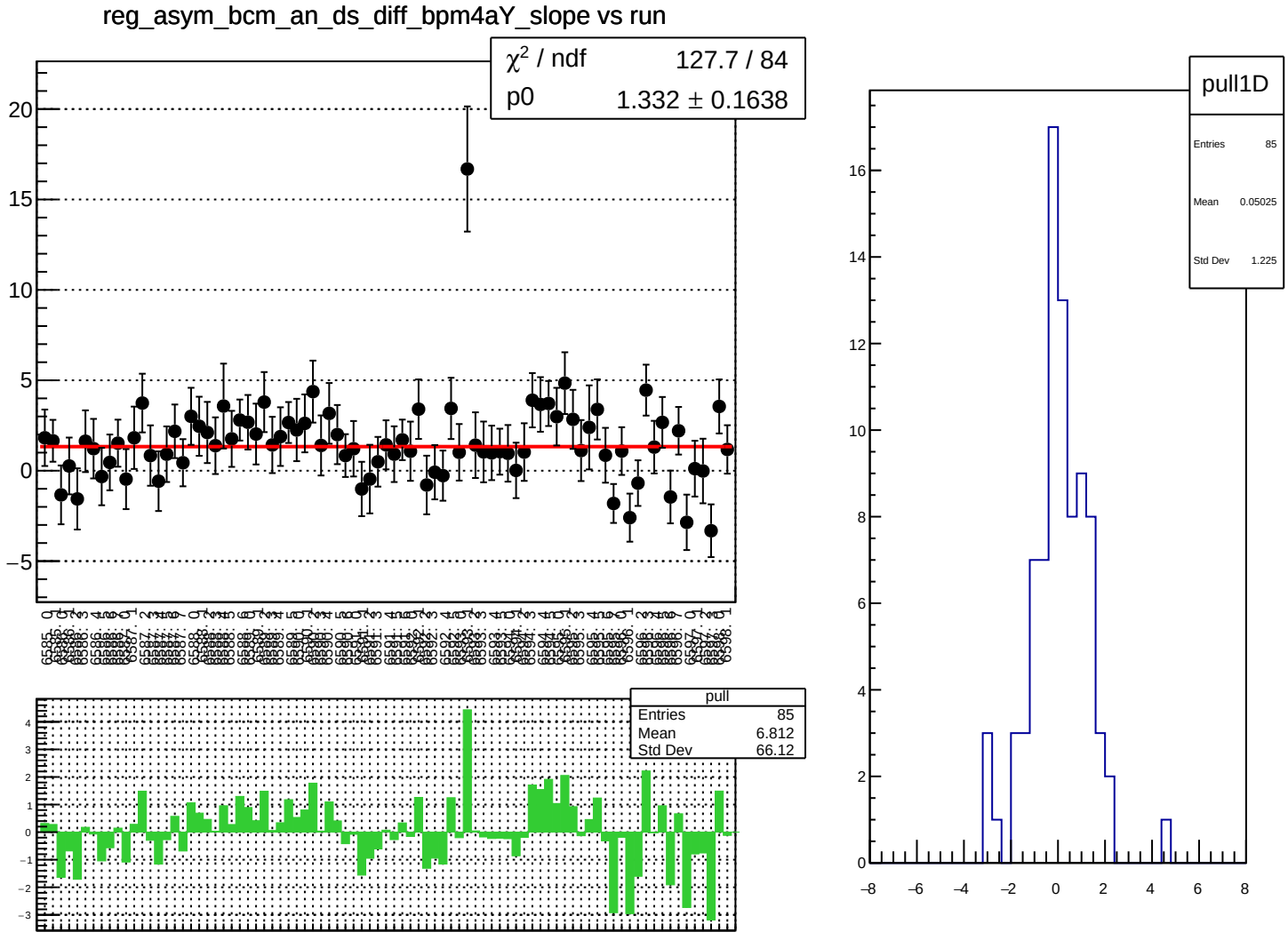

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 620.8 / 84
p0 12.55 ± 0.2433
pull
Entries 85
Mean 7.804
Std Dev 38.56
pull1D
Entries 85
Mean 0.1334
Std Dev 1.994

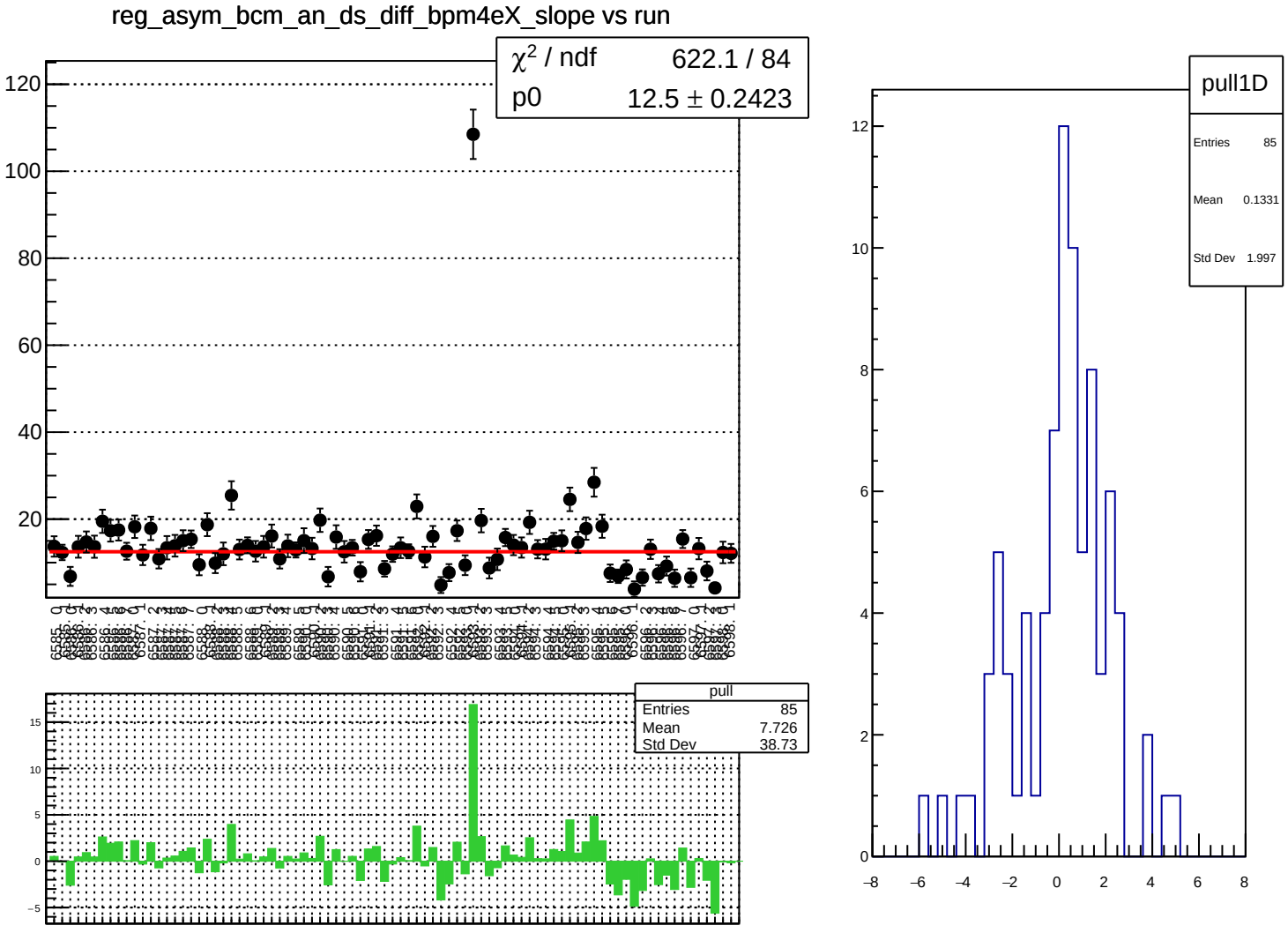

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 139.8 / 84
p0 −2.327 ± 0.1972
pull
Entries 85
Mean 28.51
Std Dev 51.75
pull1D
Entries 85
Mean −0.07122
Std Dev 1.281

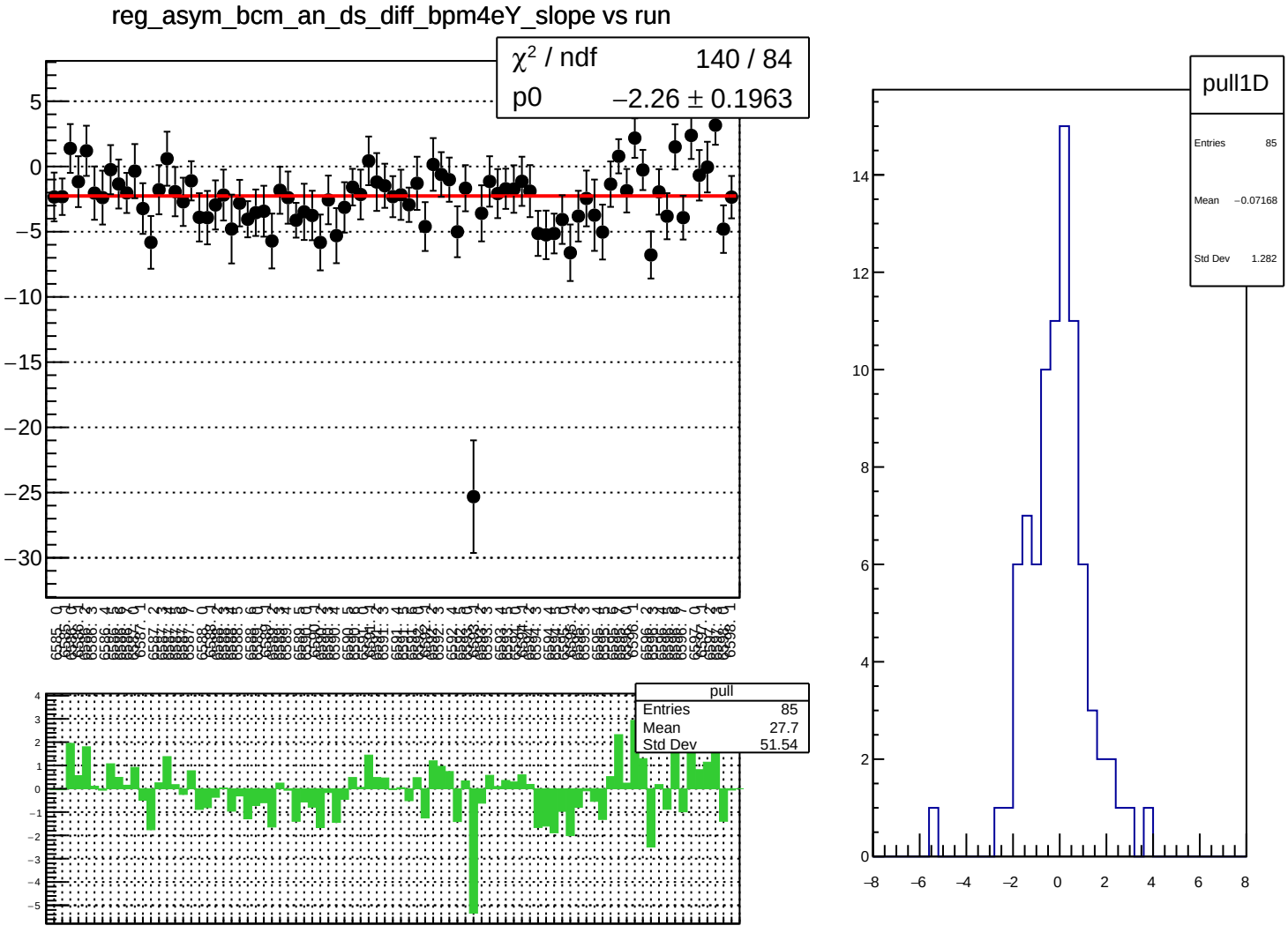

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 69.85 / 84
p0 0.07138 ± 0.009771
pull
Entries 85
Mean 325.9
Std Dev 282.4
pull1D
Entries 85
Mean 0.03779
Std Dev 0.9057

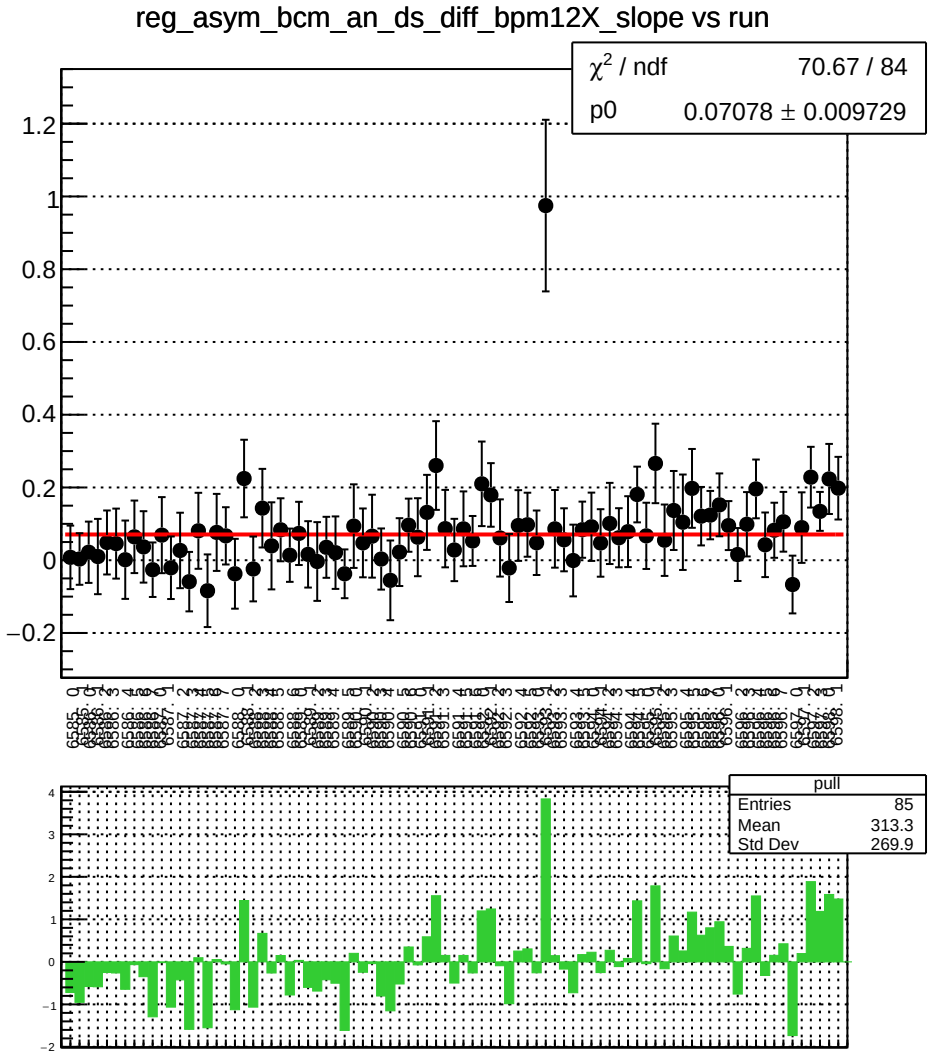

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ^2 / ndf 631.7 / 84
p0 −11.68 ± 0.2278
pull
Entries 85
Mean 10.35
Std Dev 35.29

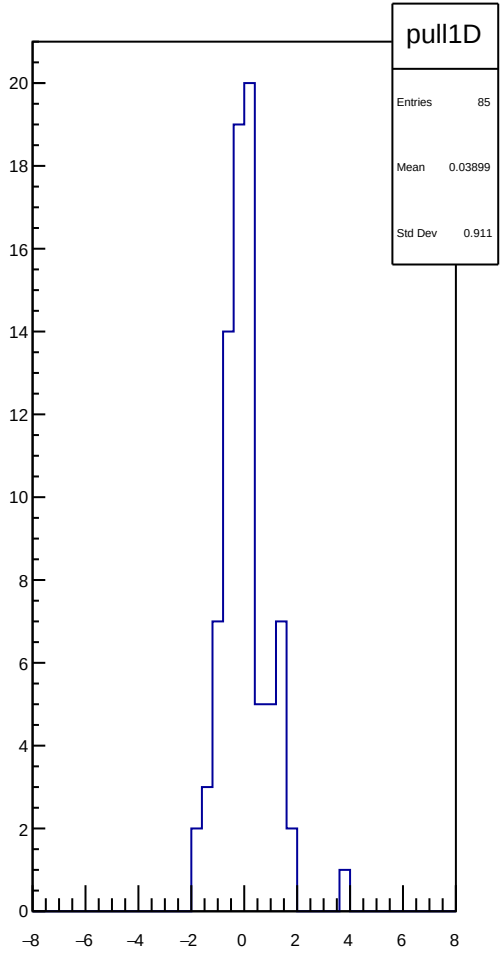

pull1D
Entries 85
Mean −0.1337
Std Dev 2.002

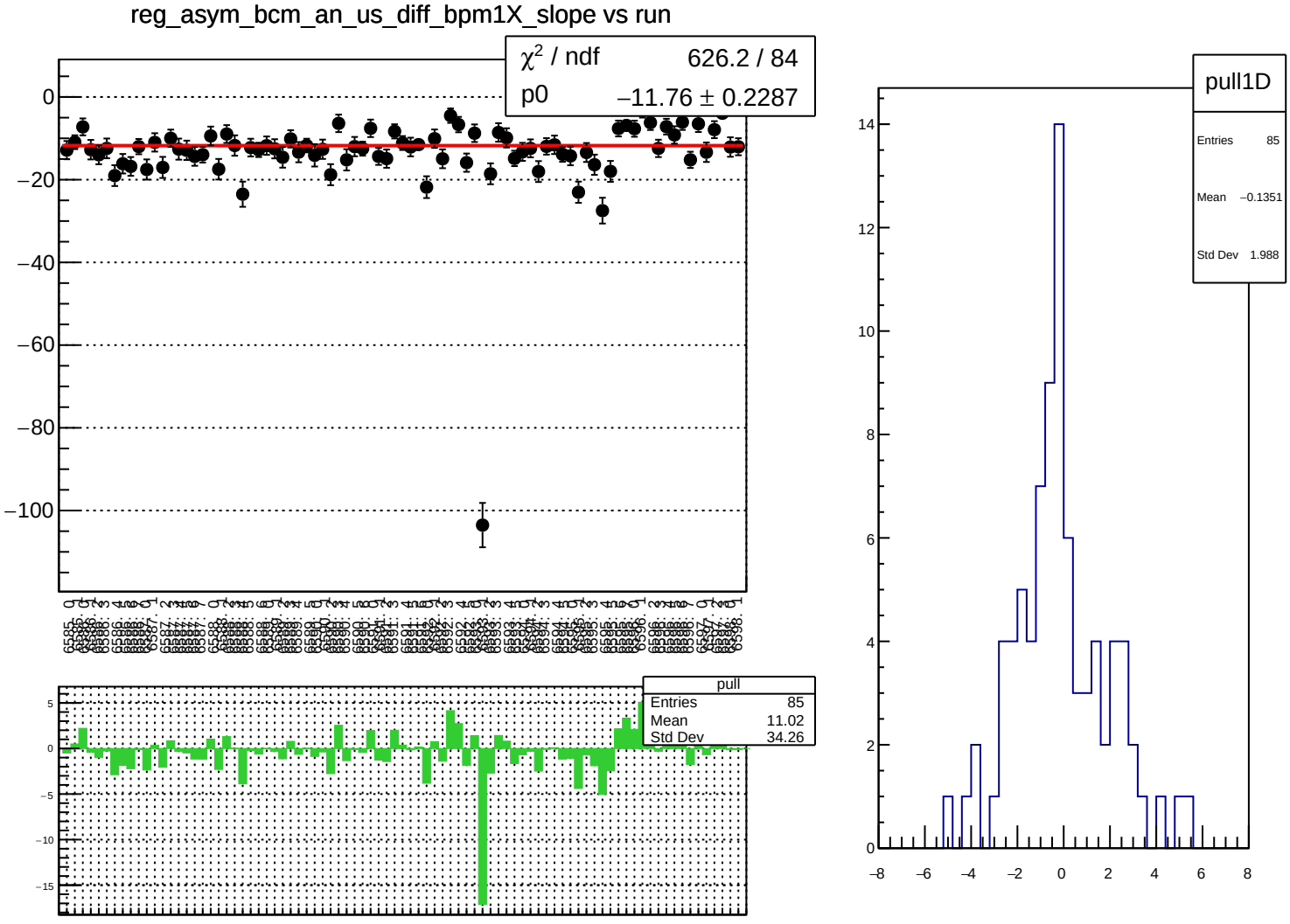

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 127.7 / 84
p0 1.332 ± 0.1638
pull
Entries 85
Mean 6.812
Std Dev 66.12
pull1D
Entries 85
Mean 0.05025
Std Dev 1.225

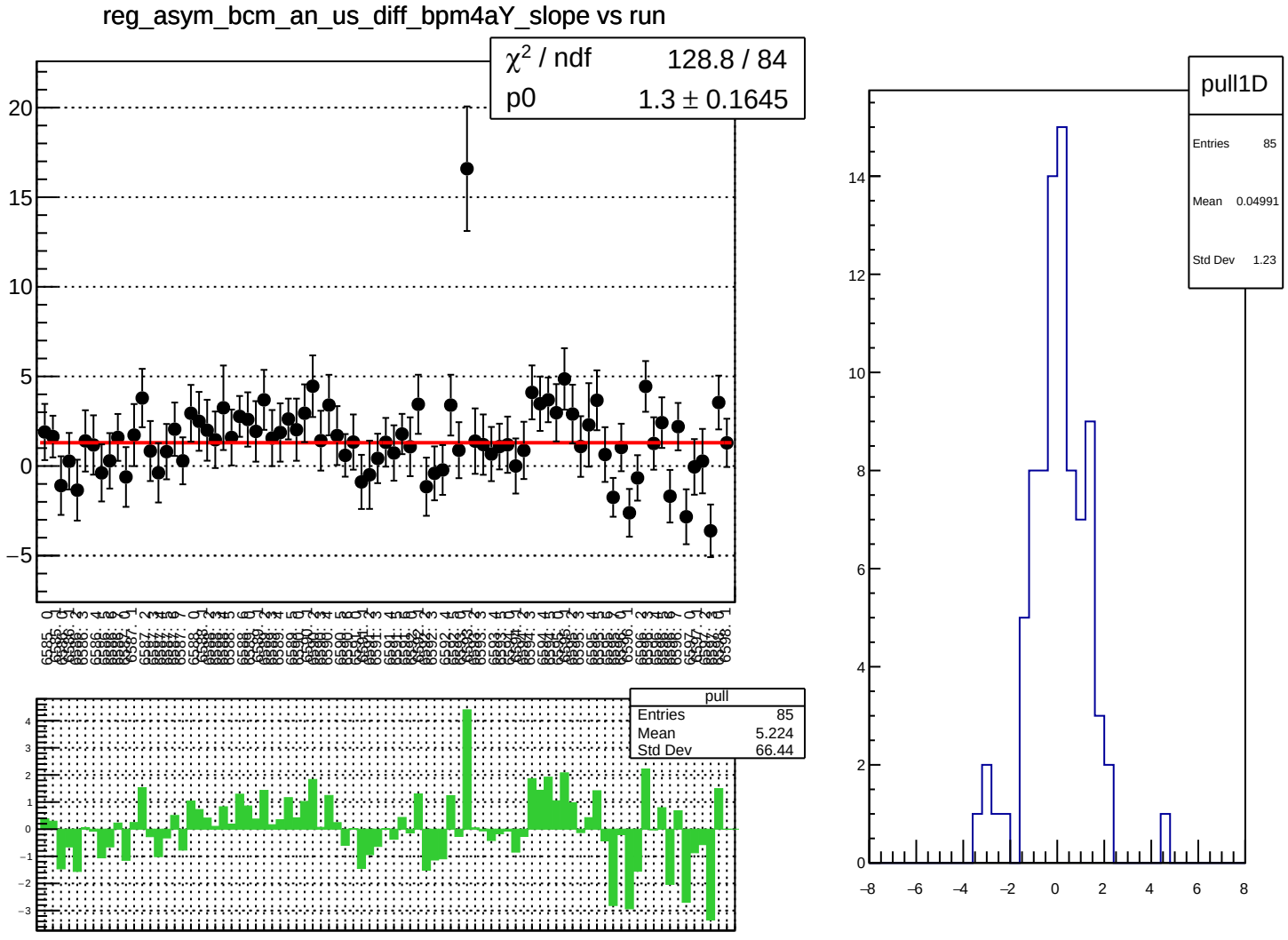

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 622.1 / 84
p0 12.5 ± 0.2423
pull
Entries 85
Mean 7.726
Std Dev 38.73
pull1D
Entries 85
Mean 0.1331
Std Dev 1.997

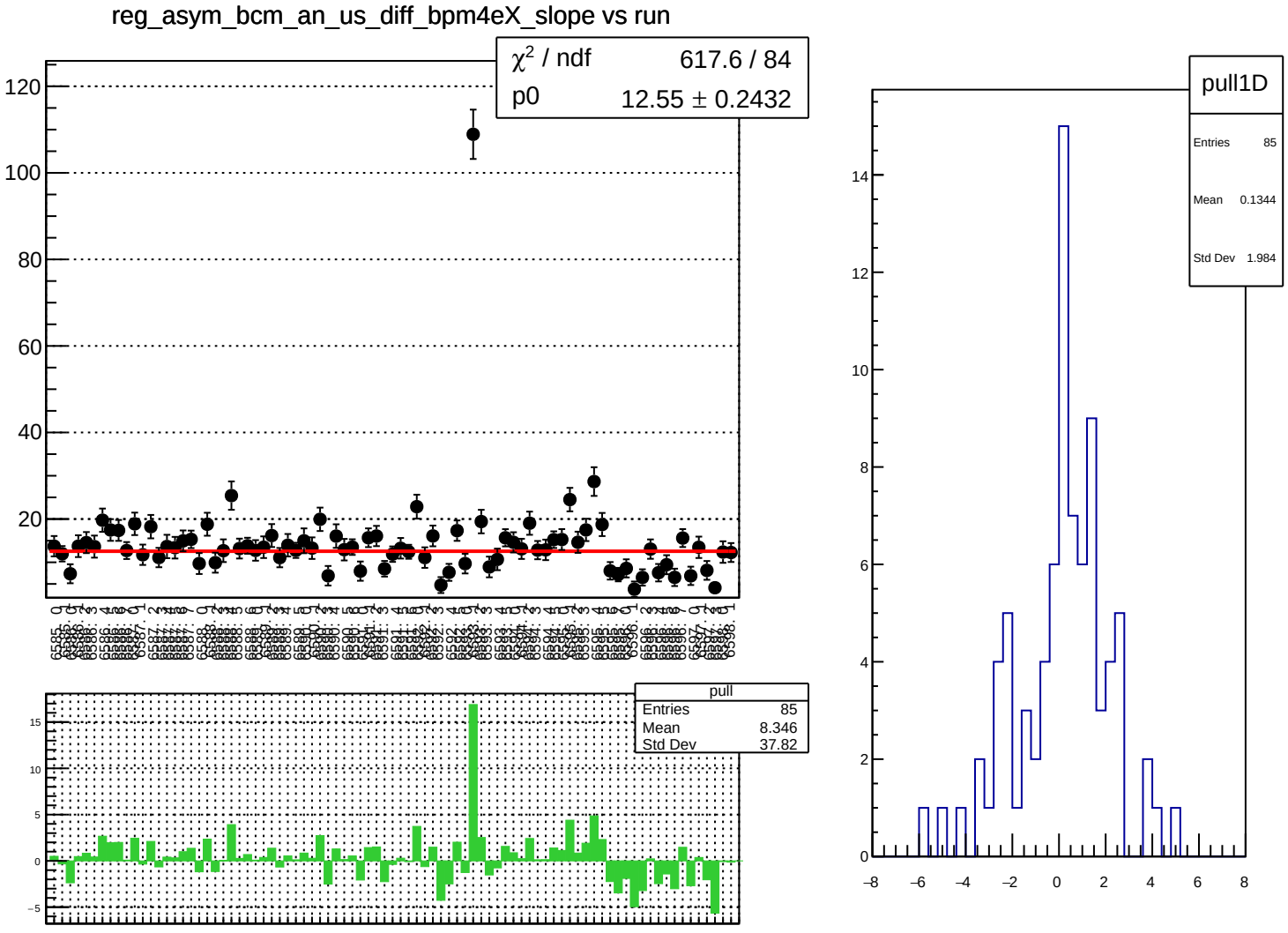

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ^2 / ndf 140 / 84
p0 −2.26 ± 0.1963
pull
Entries 85
Mean 27.7
Std Dev 51.54
pull1D
Entries 85
Mean −0.07168
Std Dev 1.282

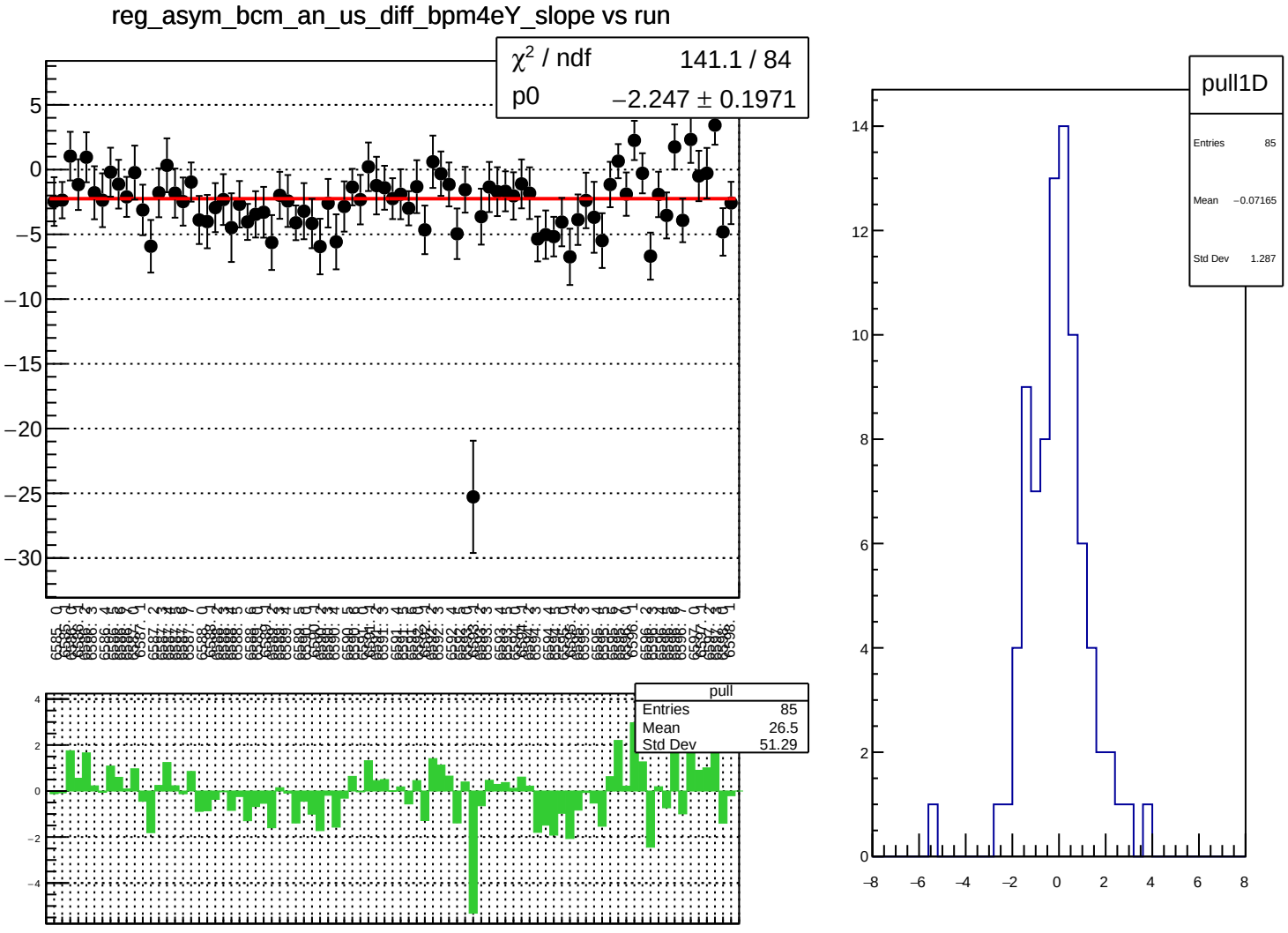

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ2 / ndf 70.67 / 84
p0 0.07078 ± 0.009729
pull
Entries 85
Mean 313.3
Std Dev 269.9

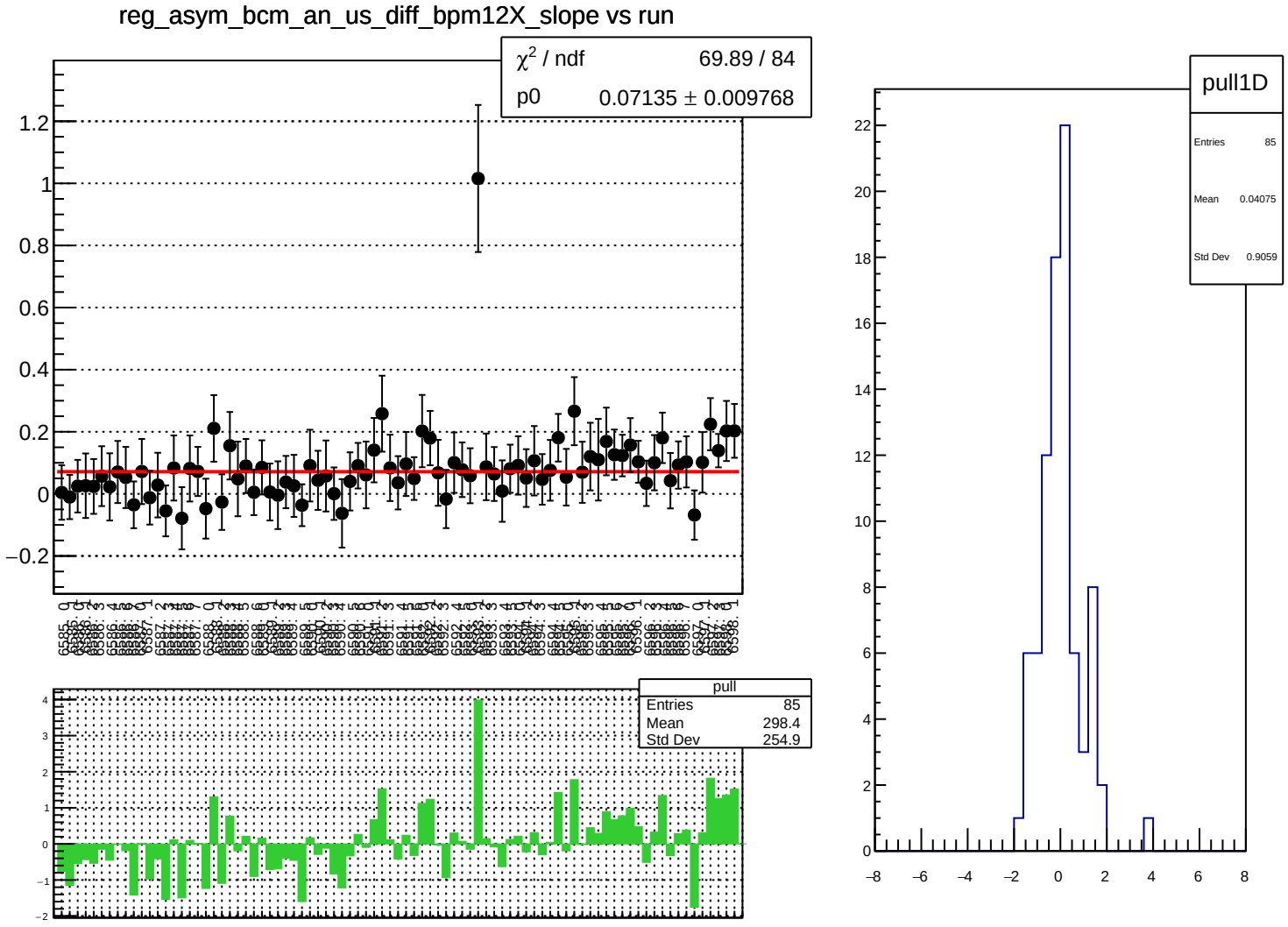

pull1D
Entries 85
Mean 0.03899
Std Dev 0.911

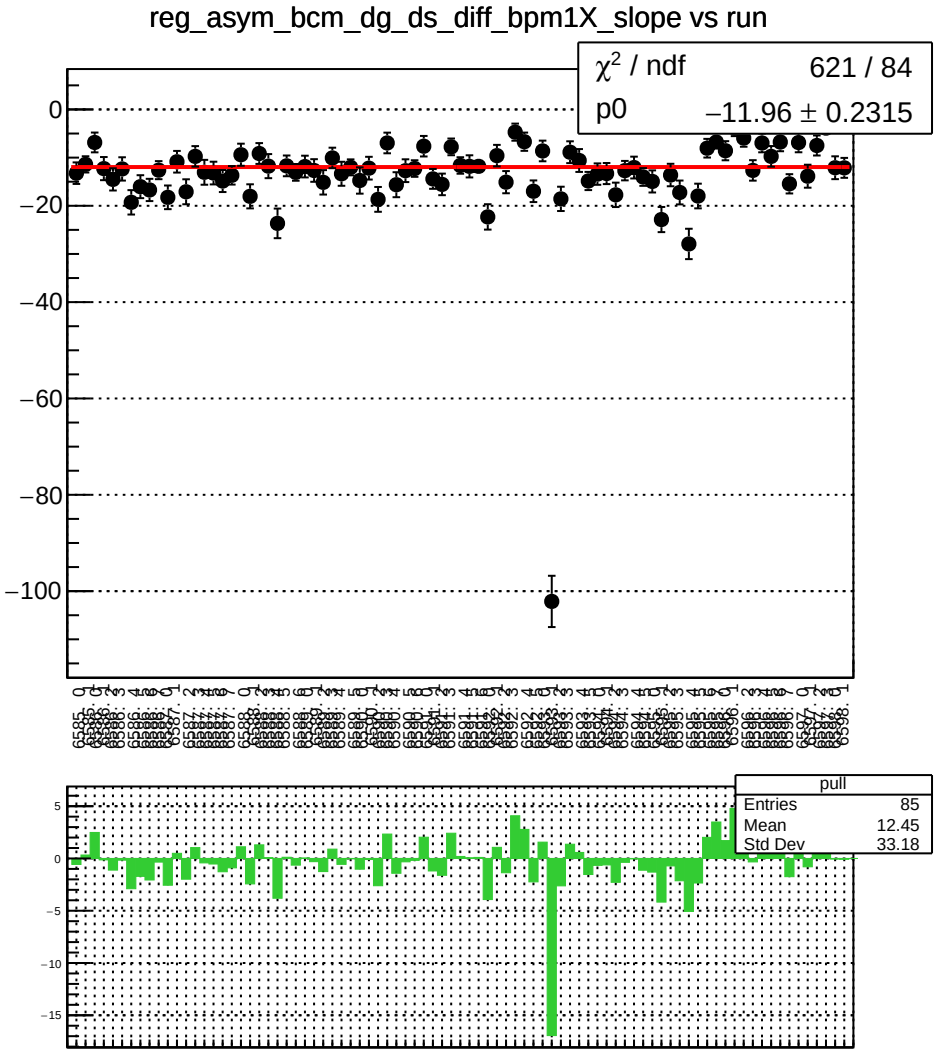

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 626.2 / 84
p0 −11.76 ± 0.2287
pull
Entries 85
Mean 11.02
Std Dev 34.26
pull1D
Entries 85
Mean −0.1351
Std Dev 1.988

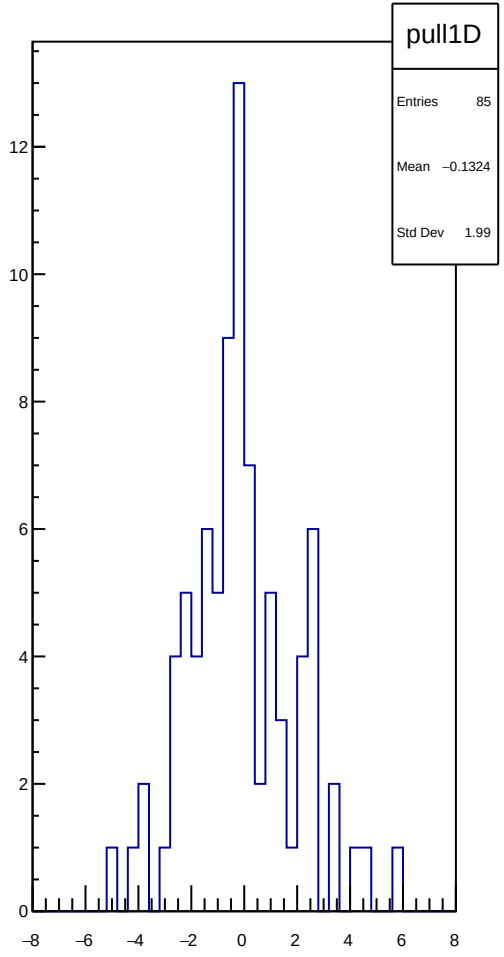

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 128.8 / 84
p0 1.3 ± 0.1645
pull
Entries 85
Mean 5.224
Std Dev 66.44
pull1D
Entries 85
Mean 0.04991
Std Dev 1.23

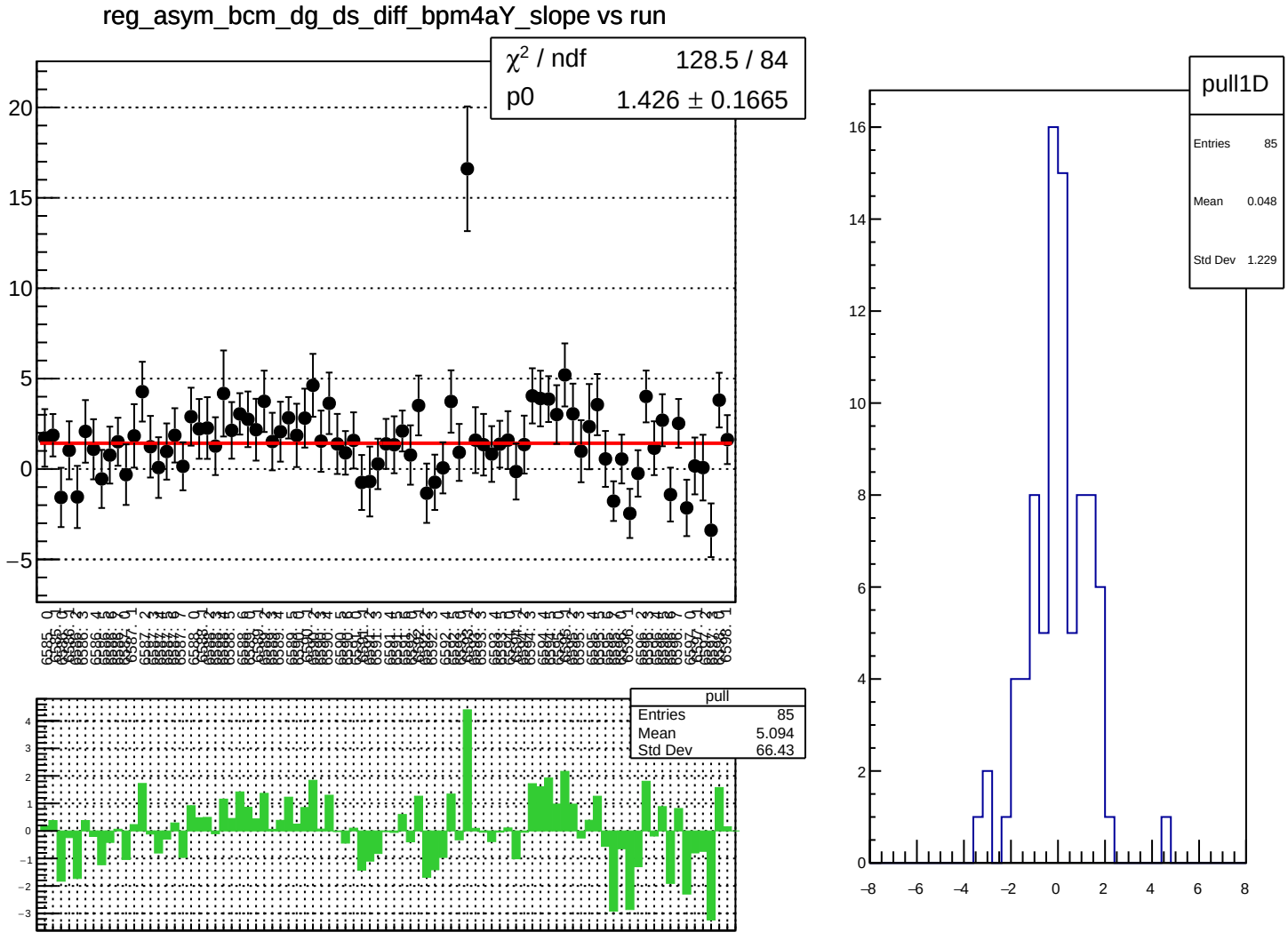

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 617.6 / 84
p0 12.55 ± 0.2432
pull
Entries 85
Mean 8.346
Std Dev 37.82
pull1D
Entries 85
Mean 0.1344
Std Dev 1.984

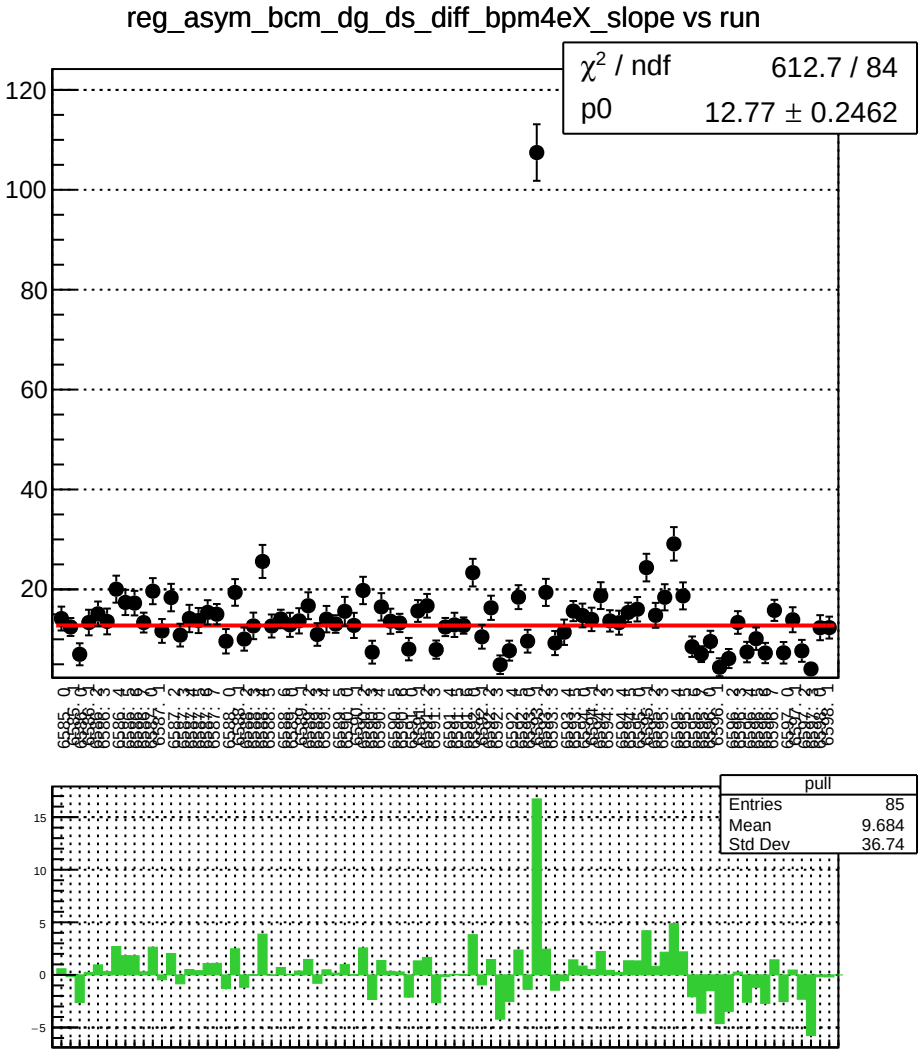

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 141.1 / 84
p0 −2.247 ± 0.1971
pull
Entries 85
Mean 26.5
Std Dev 51.29
pull1D
Entries 85
Mean −0.07165
Std Dev 1.287

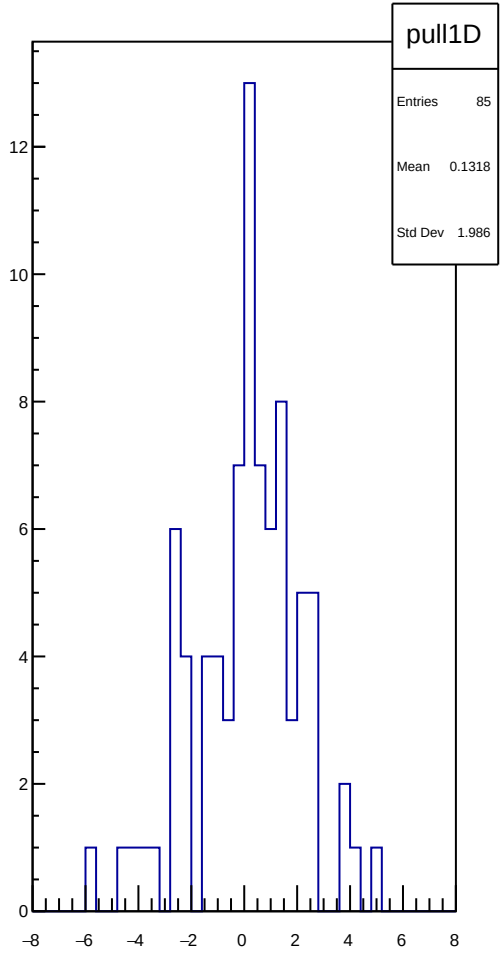

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ2 / ndf 69.89 / 84
p0 0.07135 ± 0.009768
pull
Entries 85
Mean 298.4
Std Dev 254.9
pull1D
Entries 85
Mean 0.04075
Std Dev 0.9059

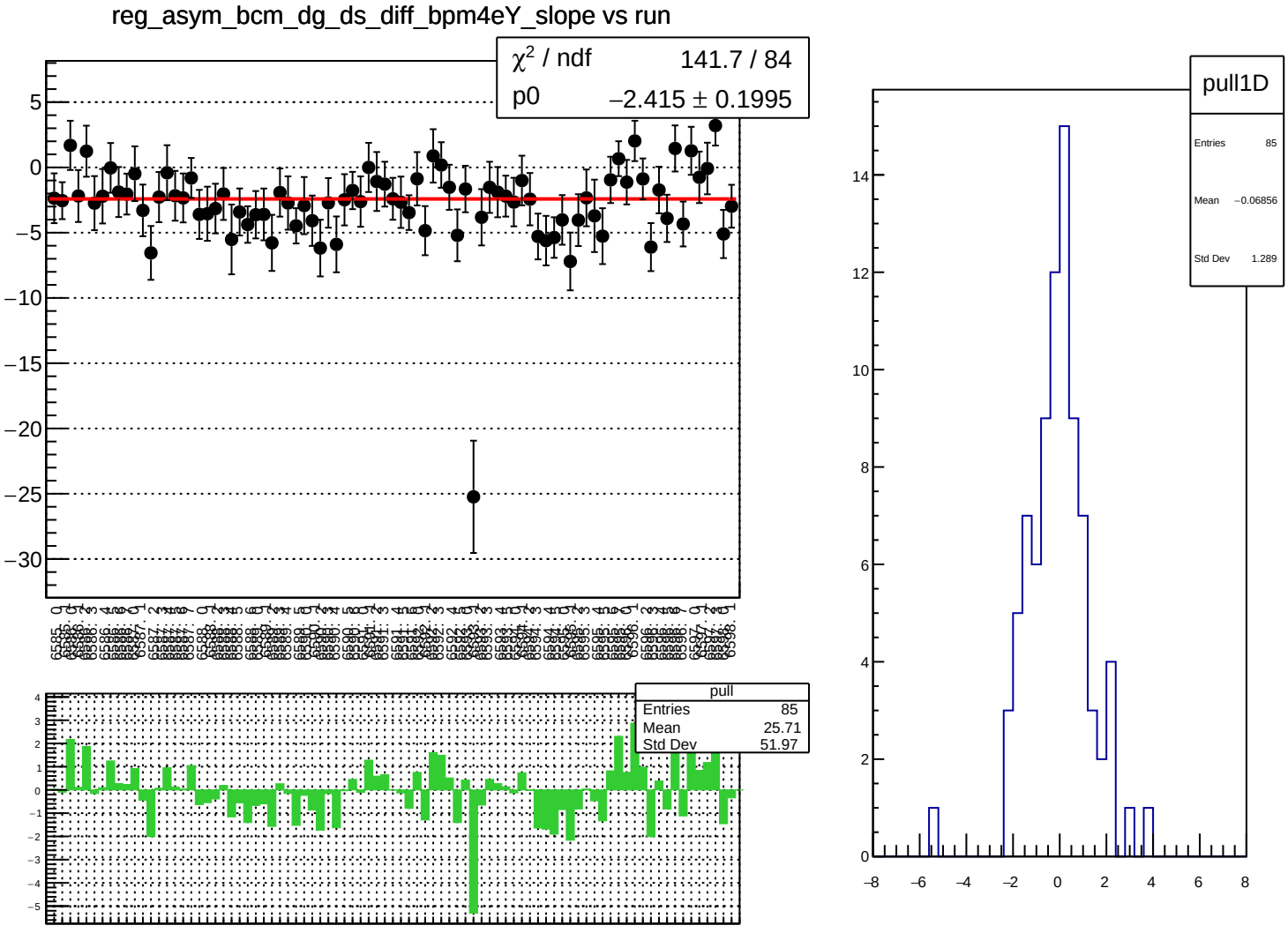

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 621 / 84
p0 −11.96 ± 0.2315
pull
Entries 85
Mean 12.45
Std Dev 33.18

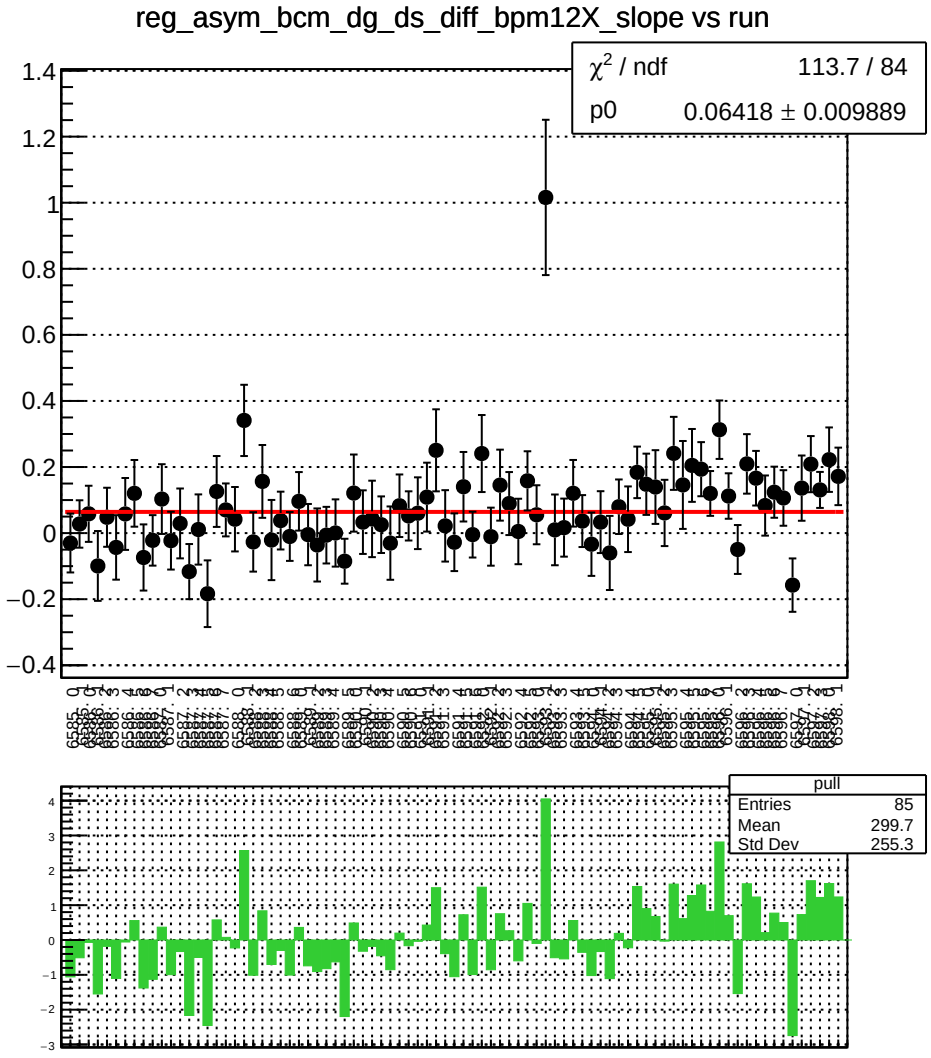

pull1D
Entries 85
Mean −0.1324
Std Dev 1.99

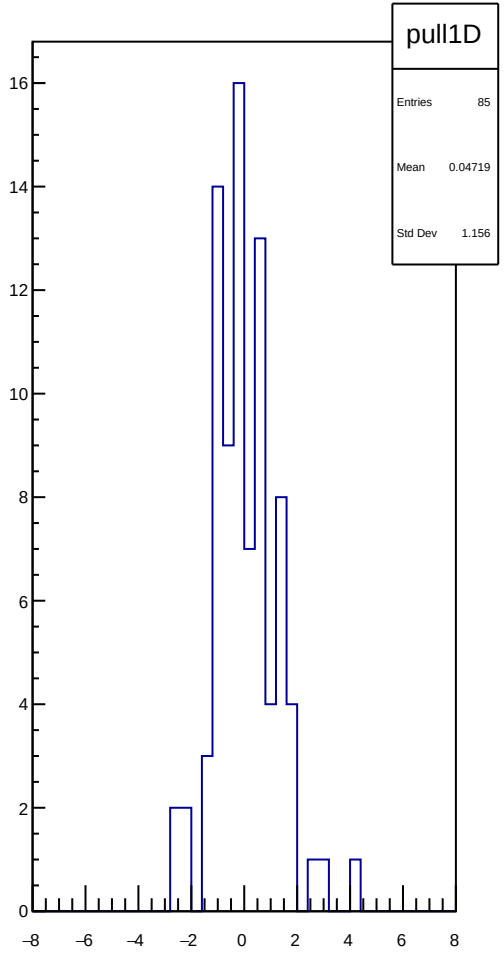

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 128.5 / 84
p0 1.426 ± 0.1665
pull
Entries 85
Mean 5.094
Std Dev 66.43
pull1D
Entries 85
Mean 0.048
Std Dev 1.229

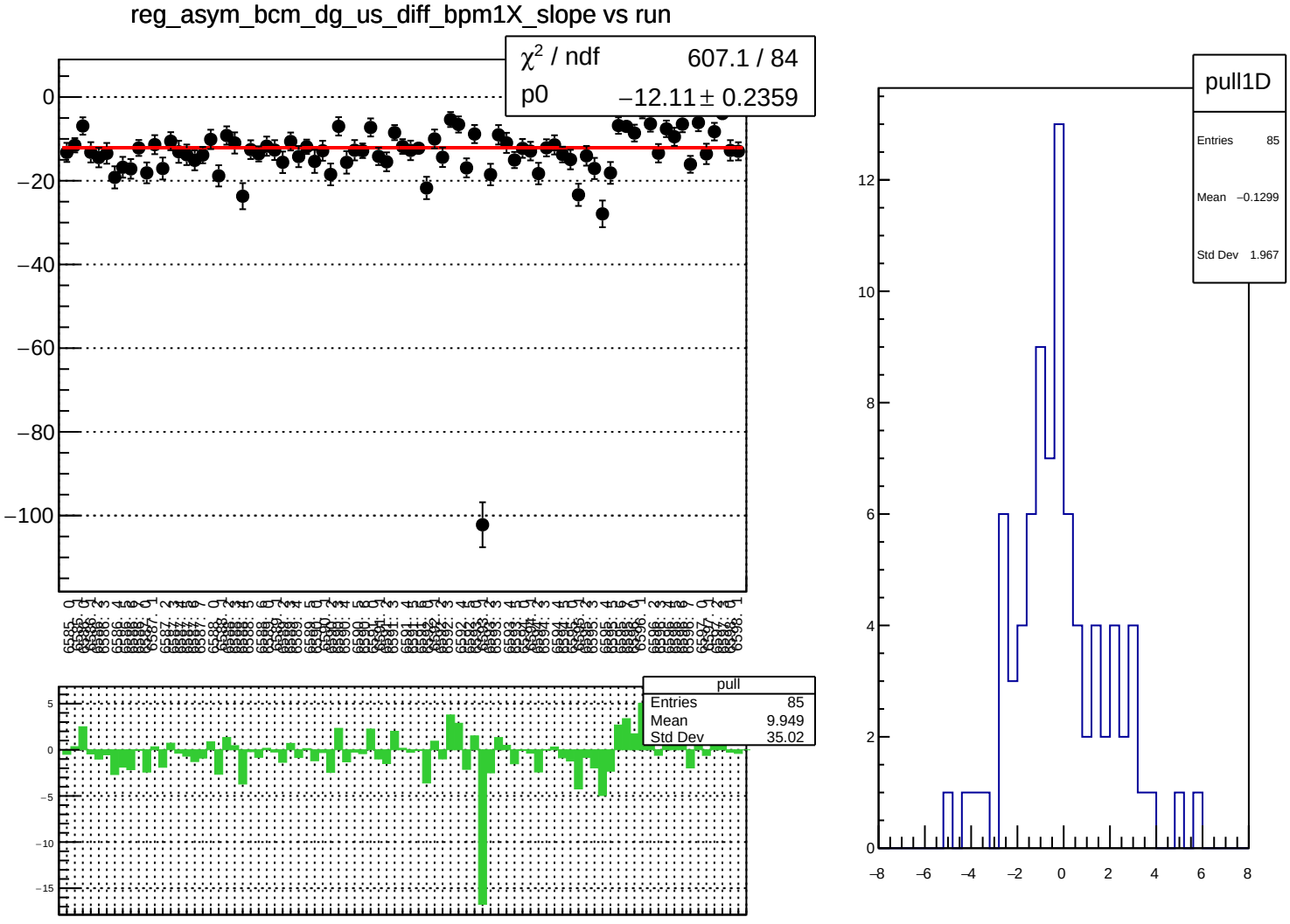

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 612.7 / 84
p0 12.77 ± 0.2462
pull
Entries 85
Mean 9.684
Std Dev 36.74

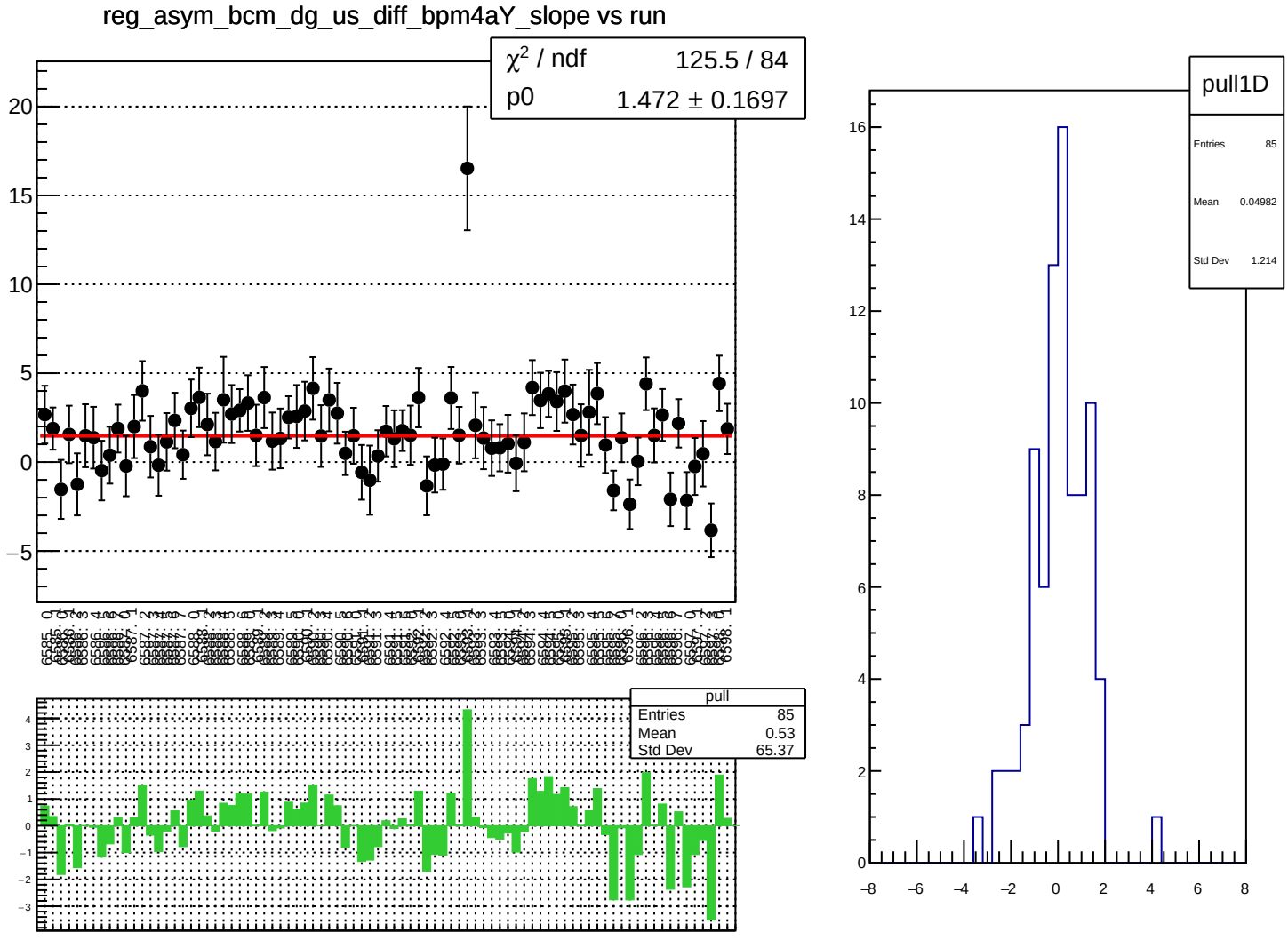

pull1D
Entries 85
Mean 0.1318
Std Dev 1.986

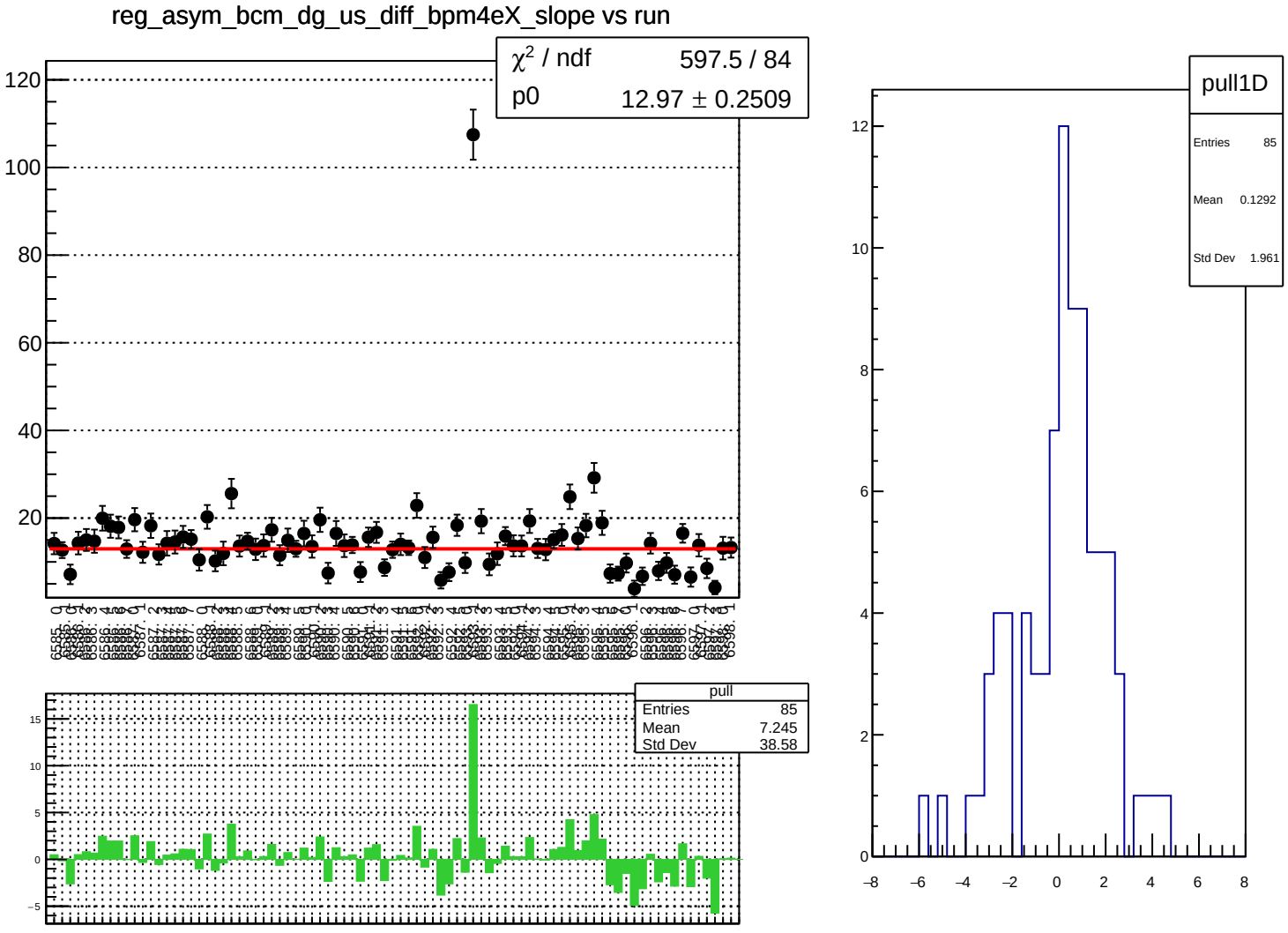

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 141.7 / 84
p0 −2.415 ± 0.1995
pull
Entries 85
Mean 25.71
Std Dev 51.97
pull1D
Entries 85
Mean −0.06856
Std Dev 1.289

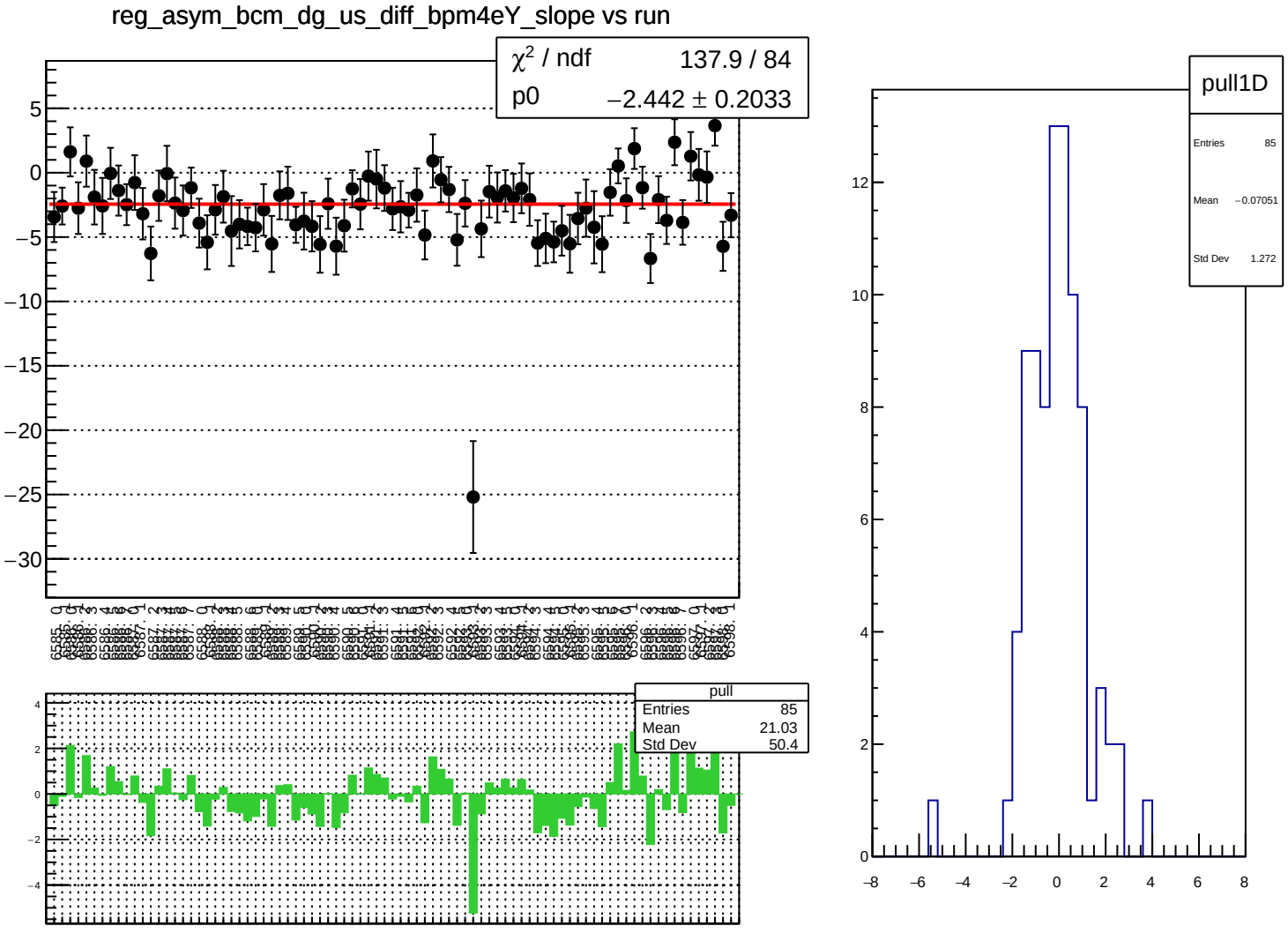

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 113.7 / 84
p0 0.06418 ± 0.009889
pull
Entries 85
Mean 299.7
Std Dev 255.3

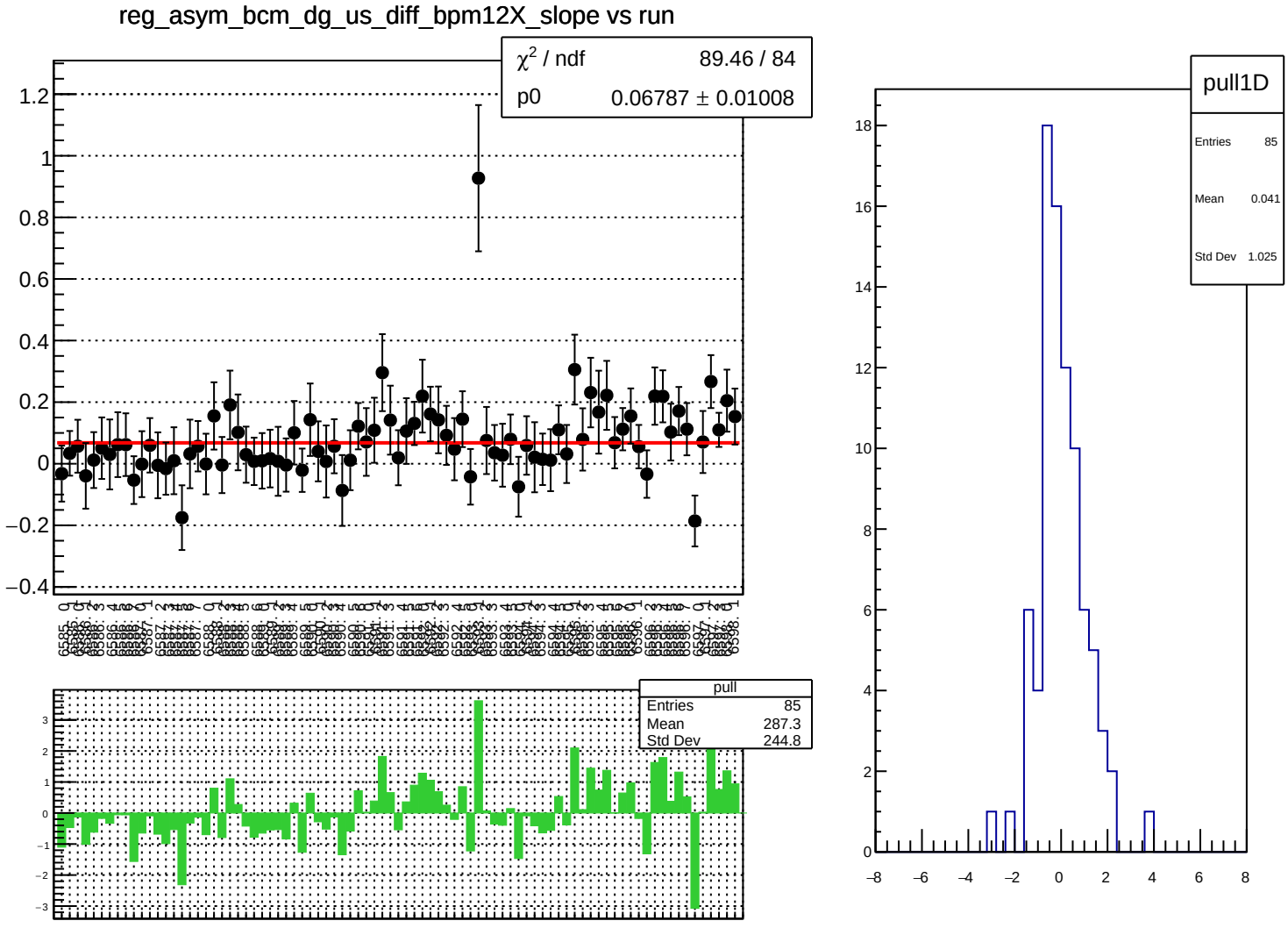

pull1D
Entries 85
Mean 0.04719
Std Dev 1.156

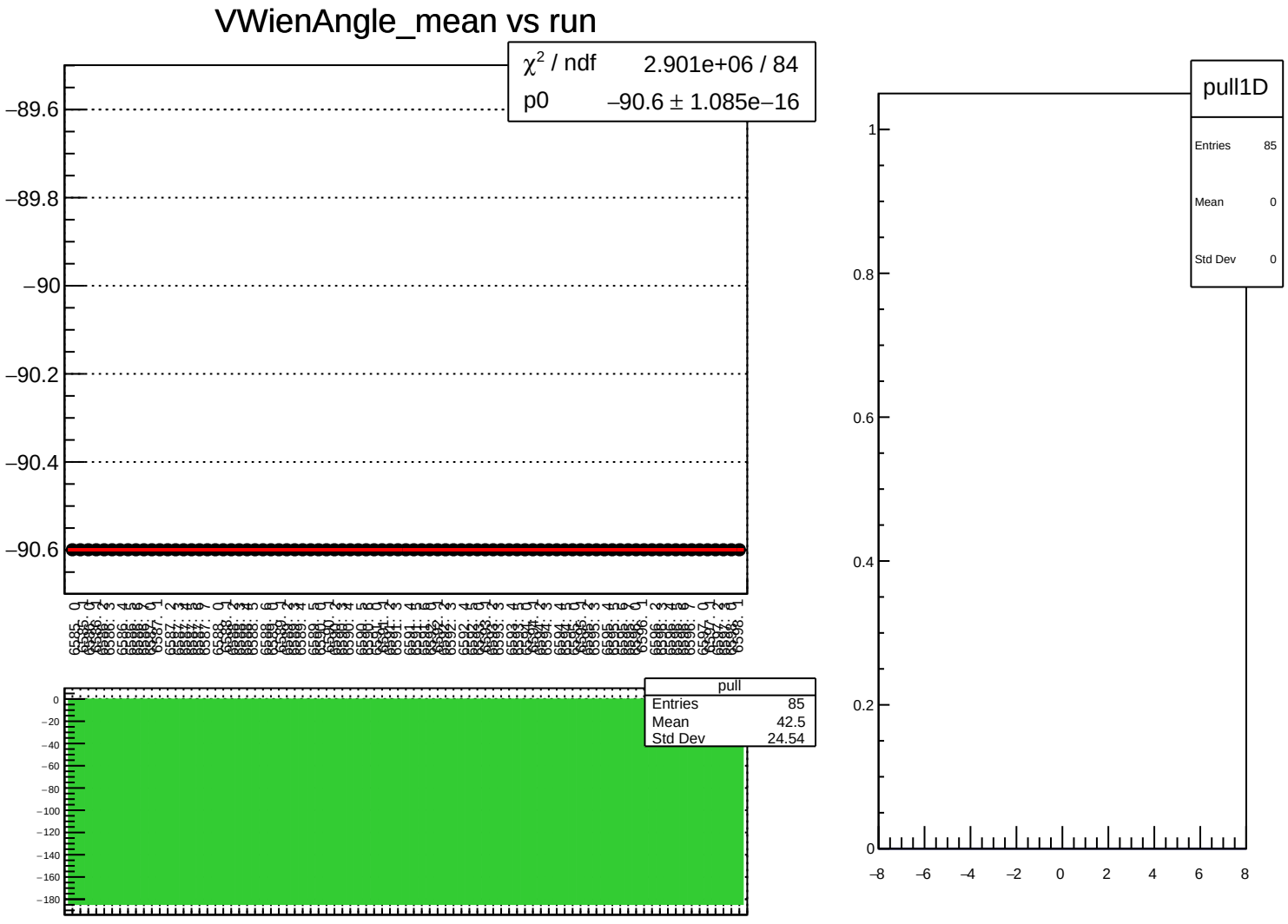

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 607.1 / 84
p0 −12.11 ± 0.2359
pull
Entries 85
Mean 9.949
Std Dev 35.02
pull1D
Entries 85
Mean −0.1299
Std Dev 1.967

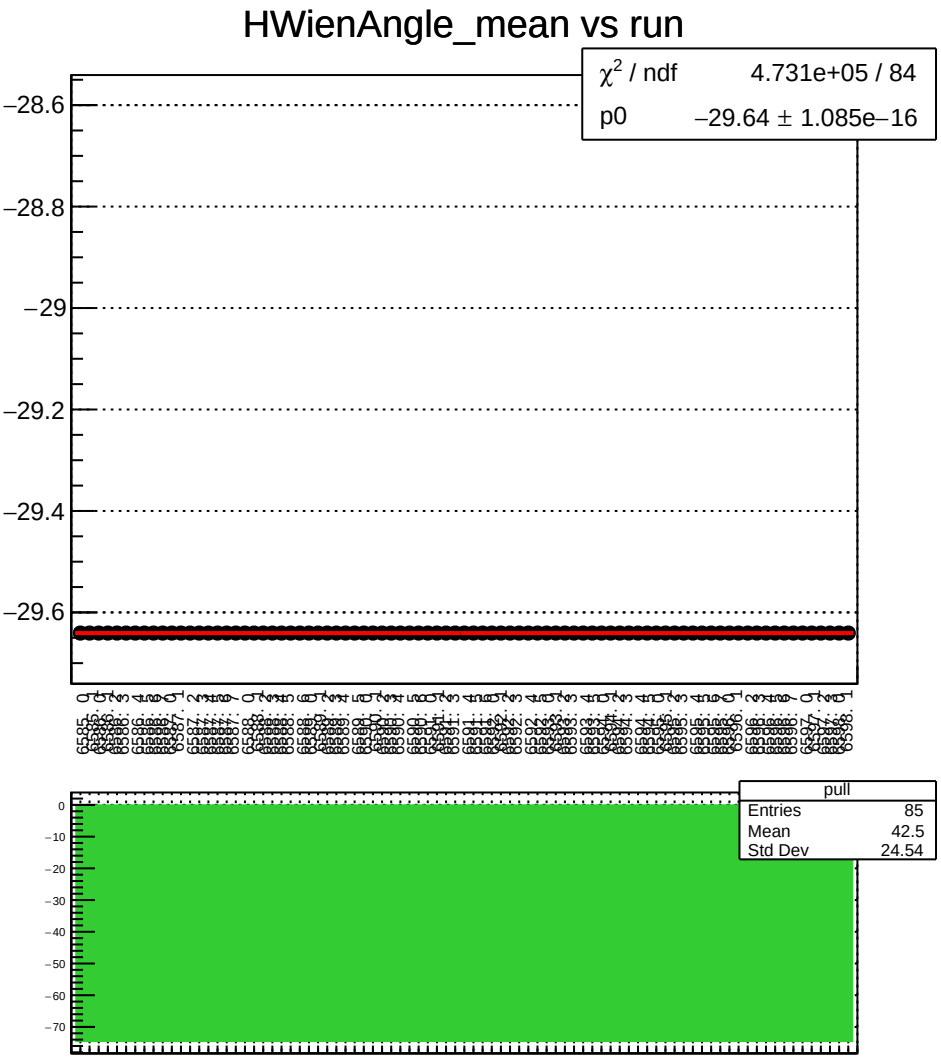

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 125.5 / 84
p0 1.472 ± 0.1697
pull
Entries 85
Mean 0.53
Std Dev 65.37
pull1D
Entries 85
Mean 0.04982
Std Dev 1.214

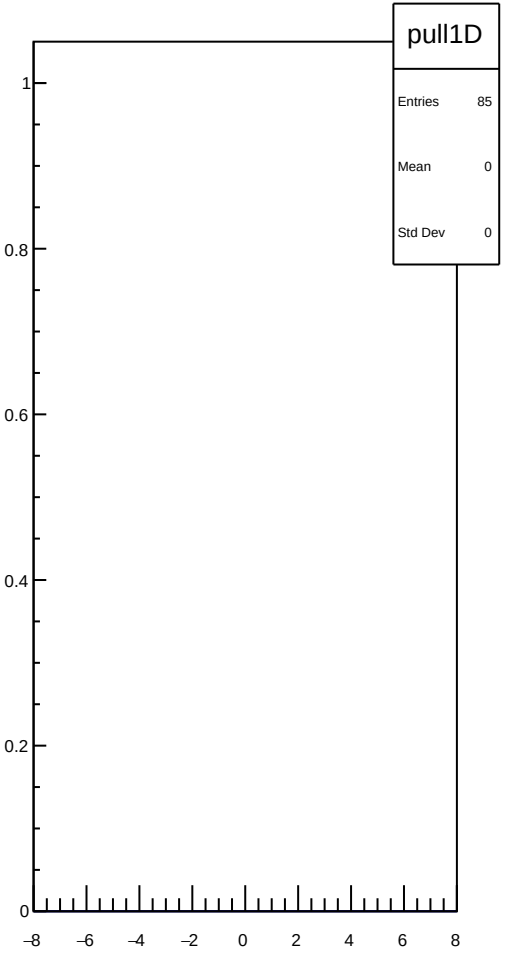

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 597.5 / 84
p0 12.97 ± 0.2509
pull
Entries 85
Mean 7.245
Std Dev 38.58
pull1D
Entries 85
Mean 0.1292
Std Dev 1.961

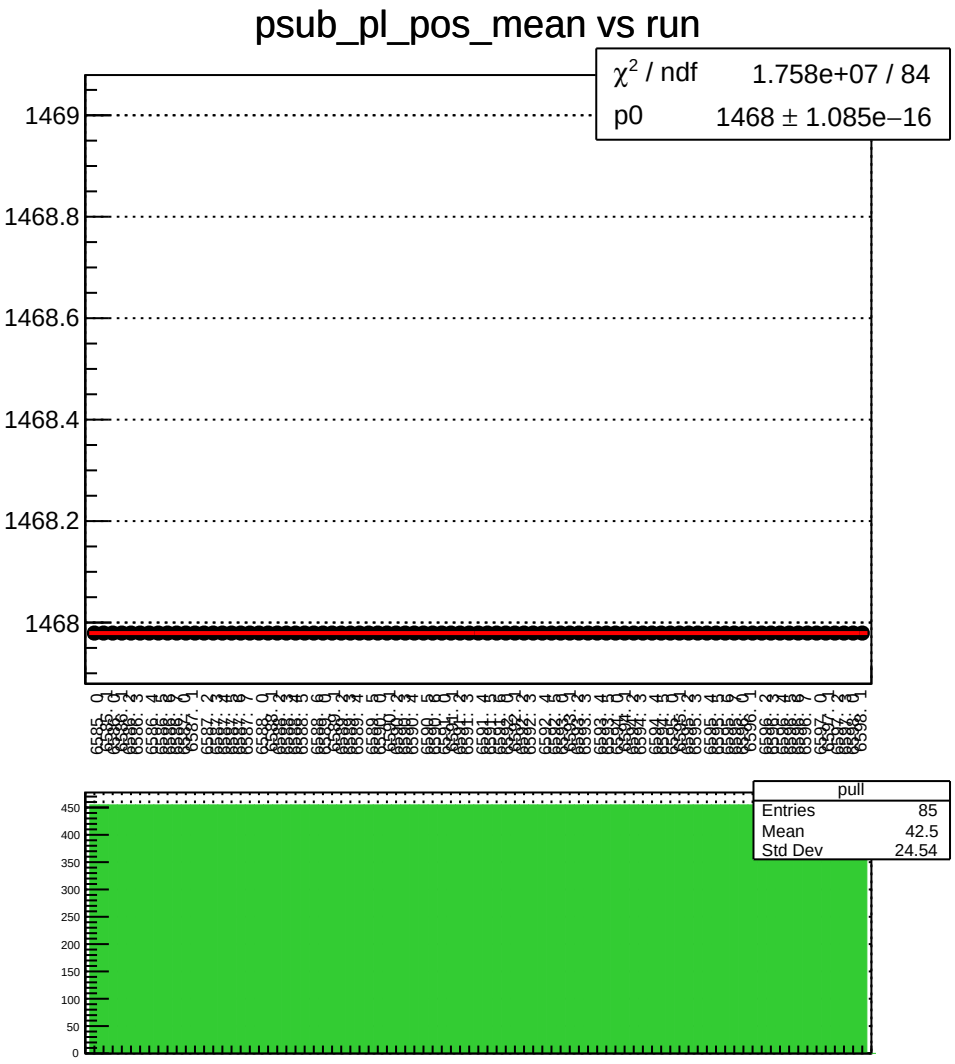

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 137.9 / 84
p0 −2.442 ± 0.2033
pull
Entries 85
Mean 21.03
Std Dev 50.4
pull1D
Entries 85
Mean −0.07051
Std Dev 1.272

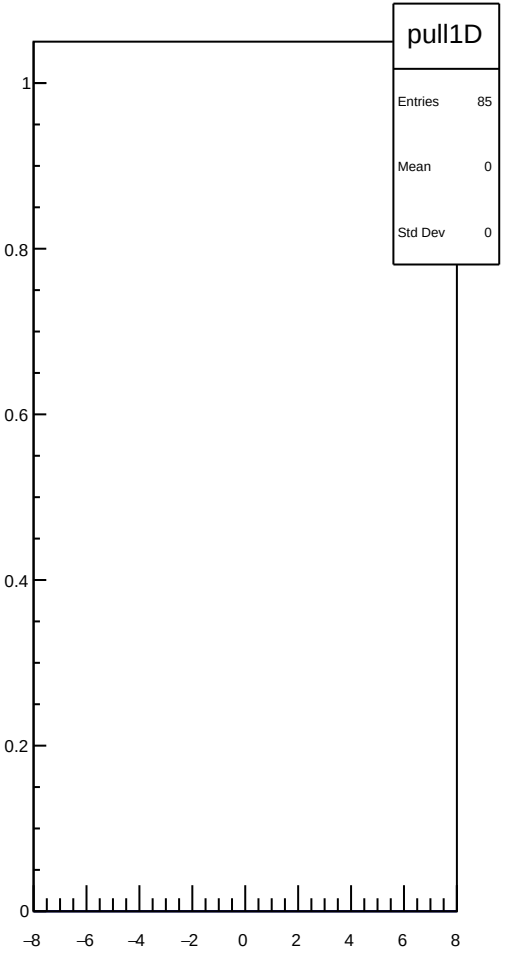

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 89.46 / 84
p0 0.06787 ± 0.01008
pull
Entries 85
Mean 287.3
Std Dev 244.8
pull1D
Entries 85
Mean 0.041
Std Dev 1.025


VWienAngle_mean vs run
χ^2 / ndf 2.901e+06 / 84
p0 −90.6 ± 1.085e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

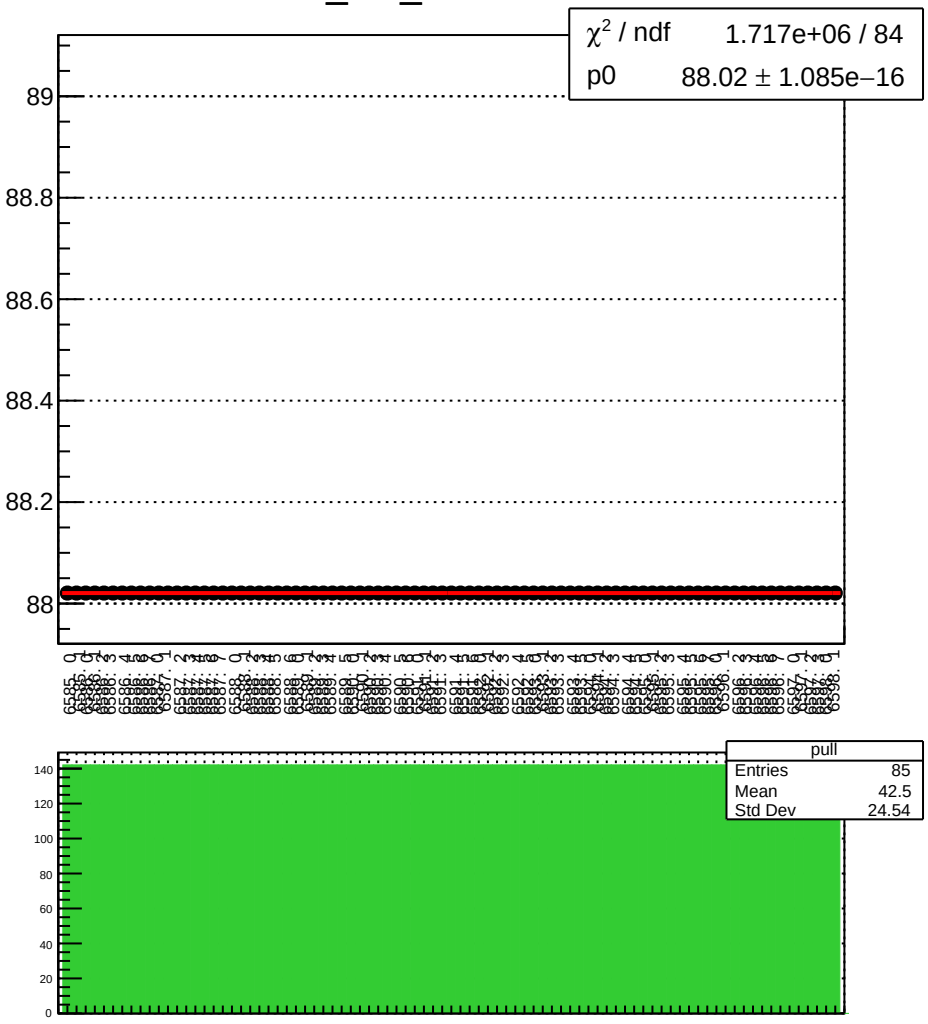

HWienAngle_mean vs run
χ^2 / ndf 4.731e+05 / 84
p0 −29.64 ± 1.085e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
0
−10
−20
−30
−40
−50
−60
−70

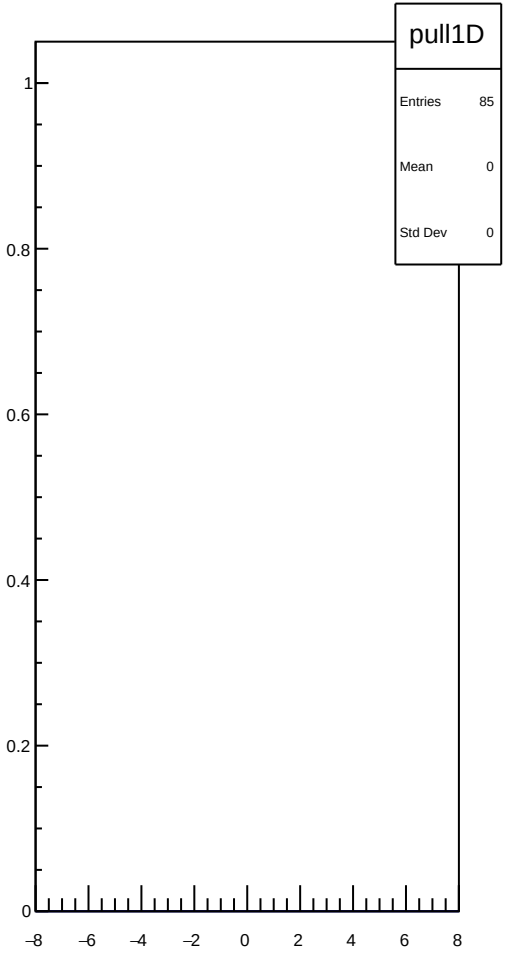

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

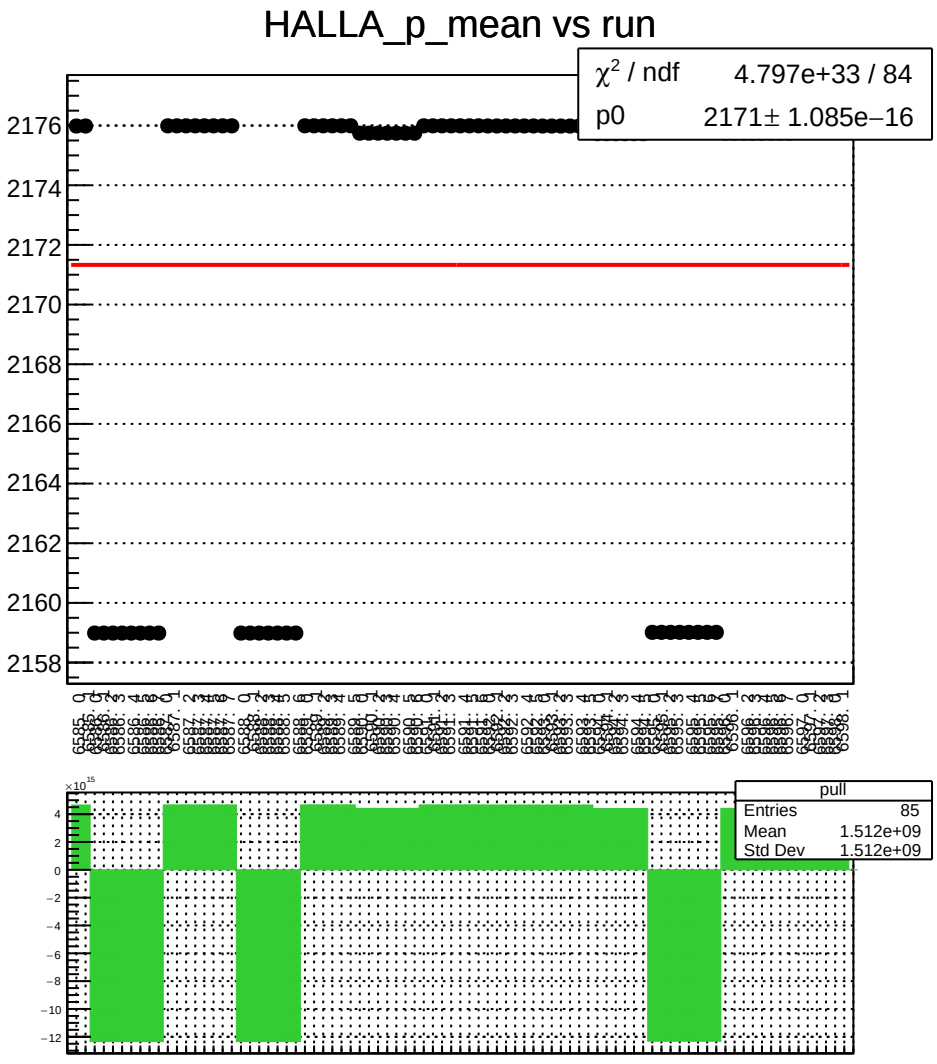

psub_pl_pos_mean vs run
χ² / ndf 1.758e+07 / 84
p0 1468 ± 1.085e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 85
Mean 42.5
Std Dev 24.54
450
400
350
300
250
200
150
100
50
0

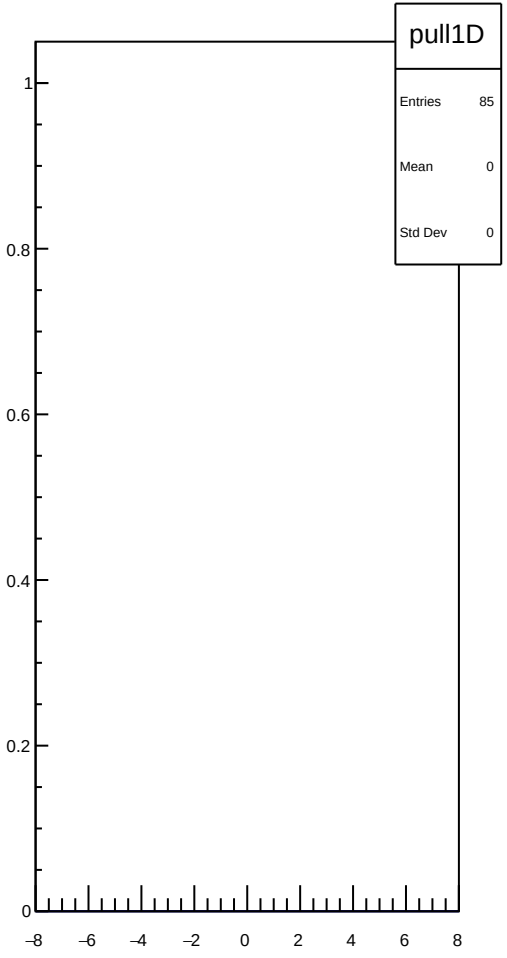

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

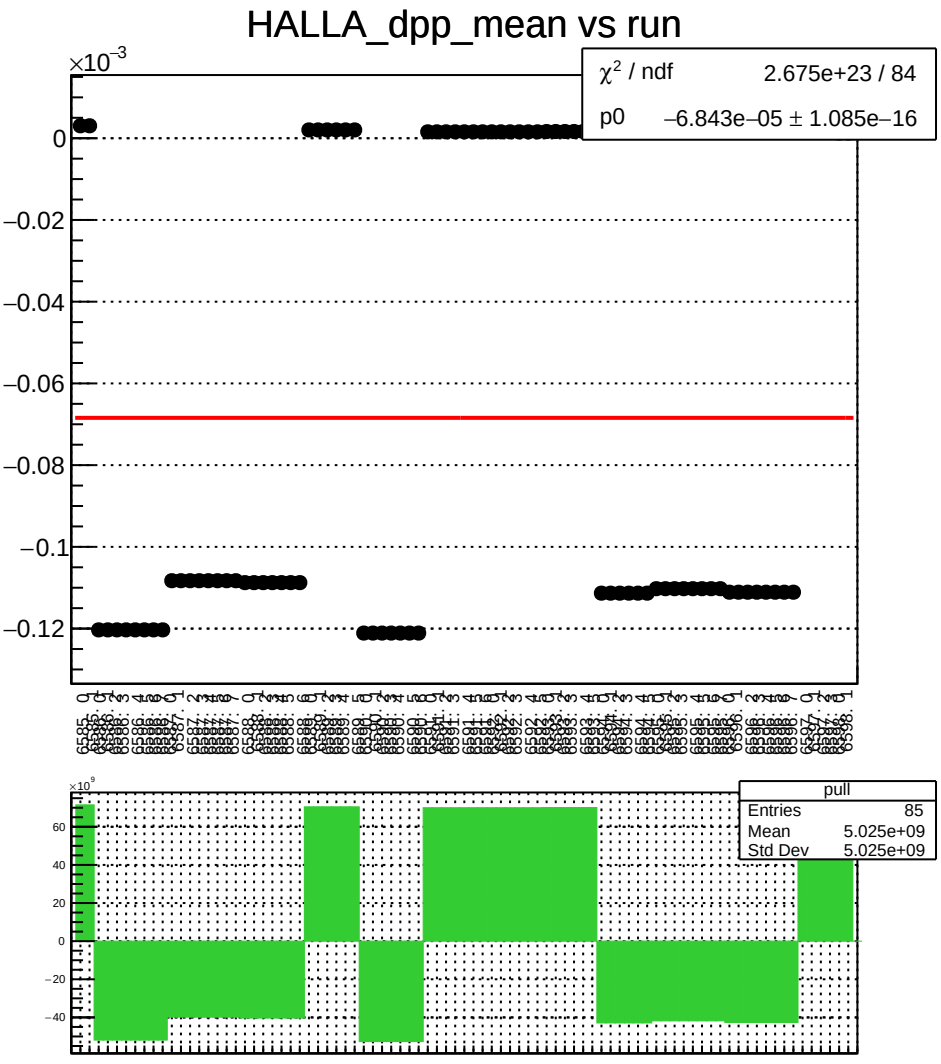
Phi_FG_mean vs run

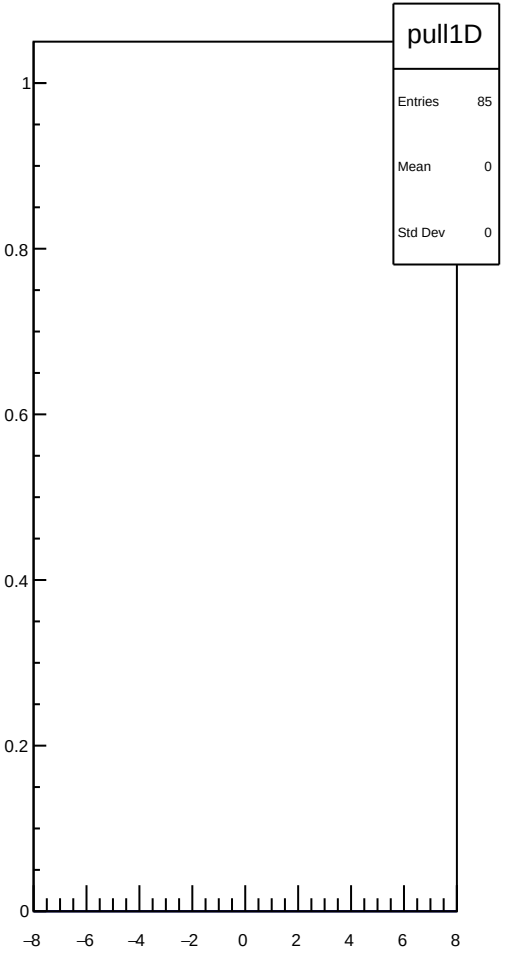


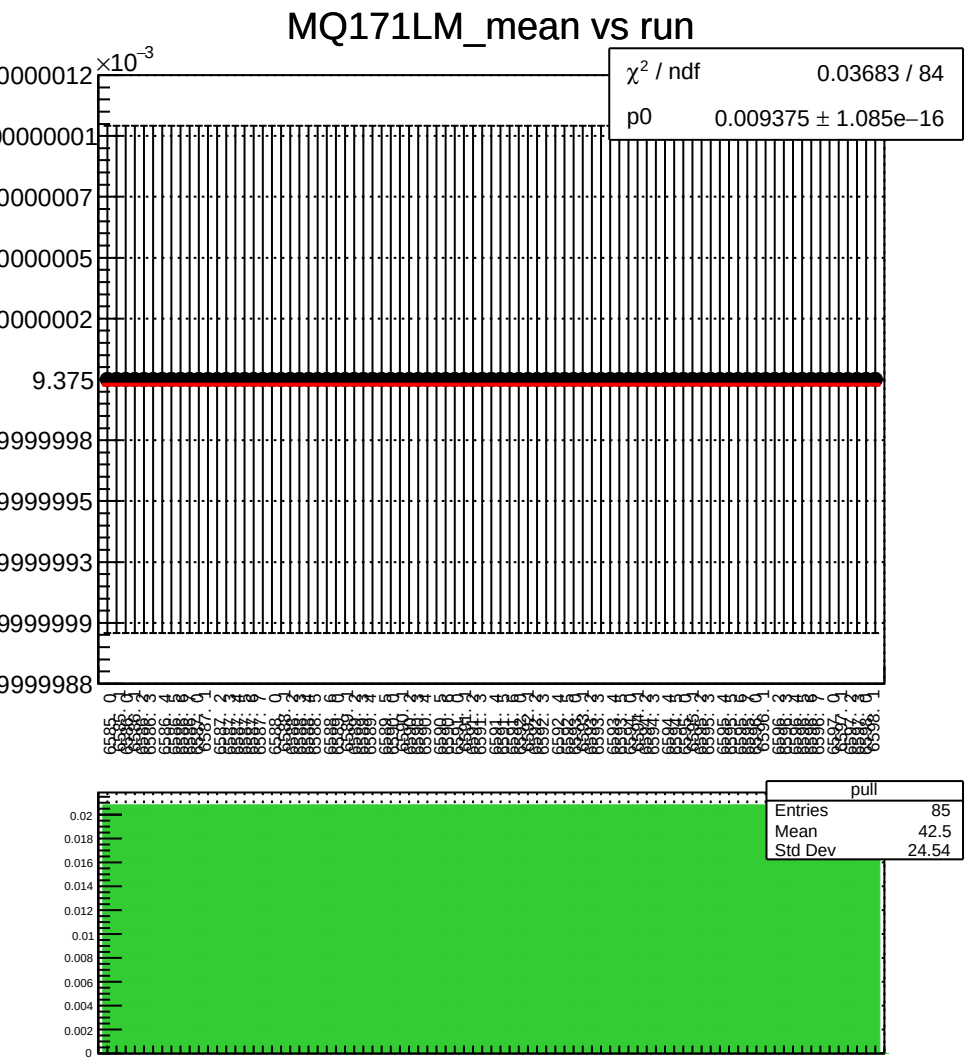


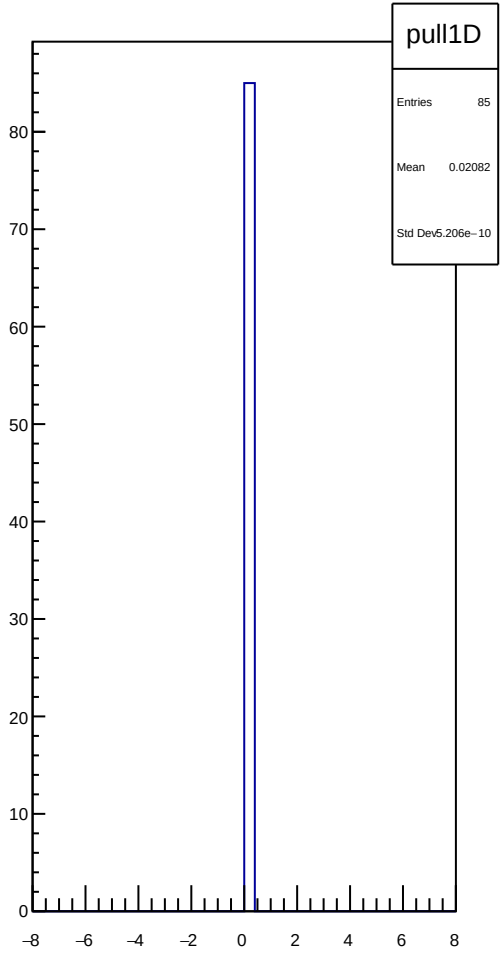

HALLA_p_mean vs run
χ^2 / ndf 4.797e+33 / 84
p0 2171± 1.085e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 85
Mean 1.512e+09
Std Dev 1.512e+09
×10^15
4
2
0
−2
−4
−6
−8
−10
−12

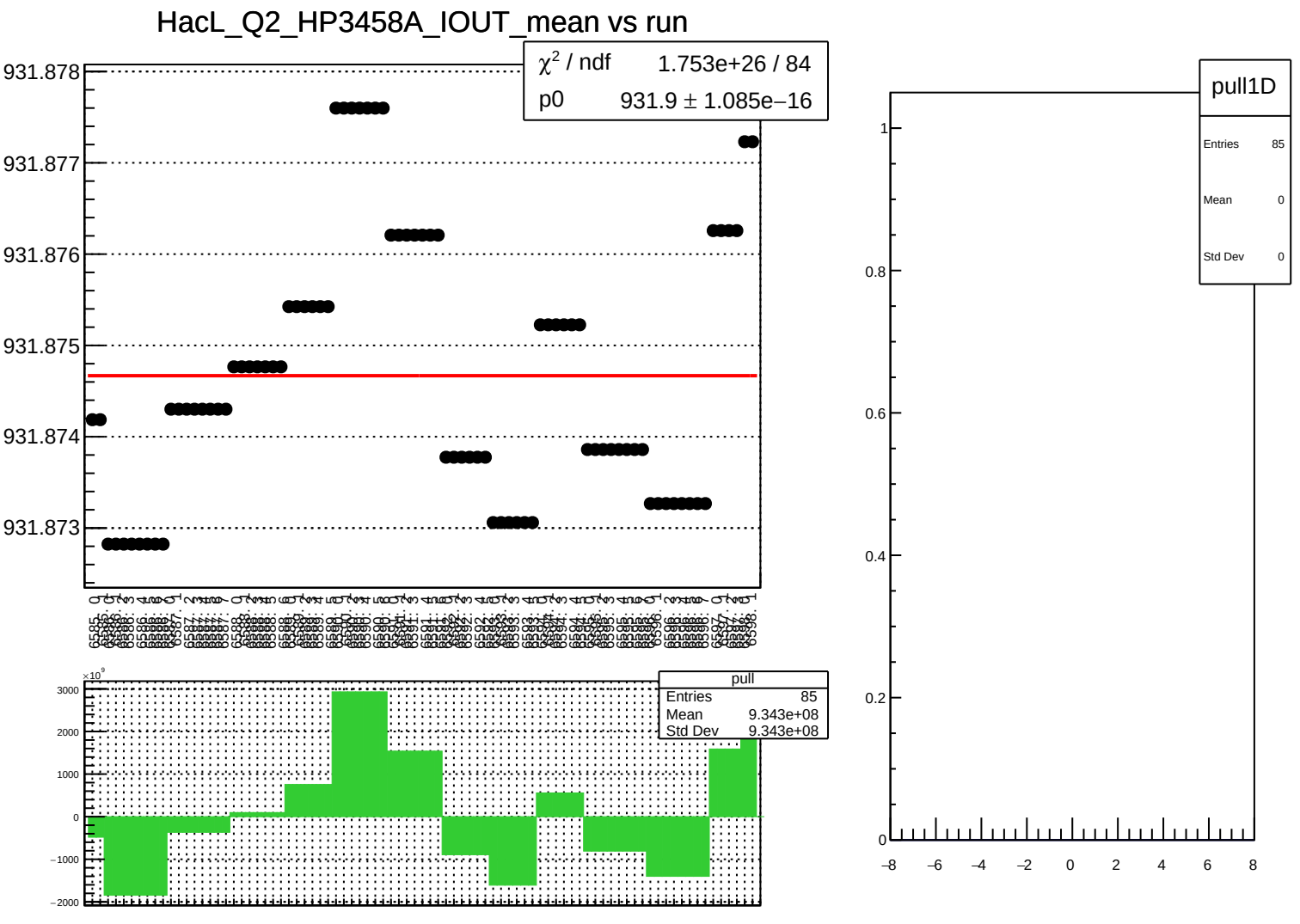

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


HALLA_dpp_mean vs run
×10^−3
χ² / ndf 2.675e+23 / 84
p0 −6.843e−05 ± 1.085e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10^9
pull
Entries 85
Mean 5.025e+09
Std Dev 5.025e+09
60
40
20
0
−20
−40

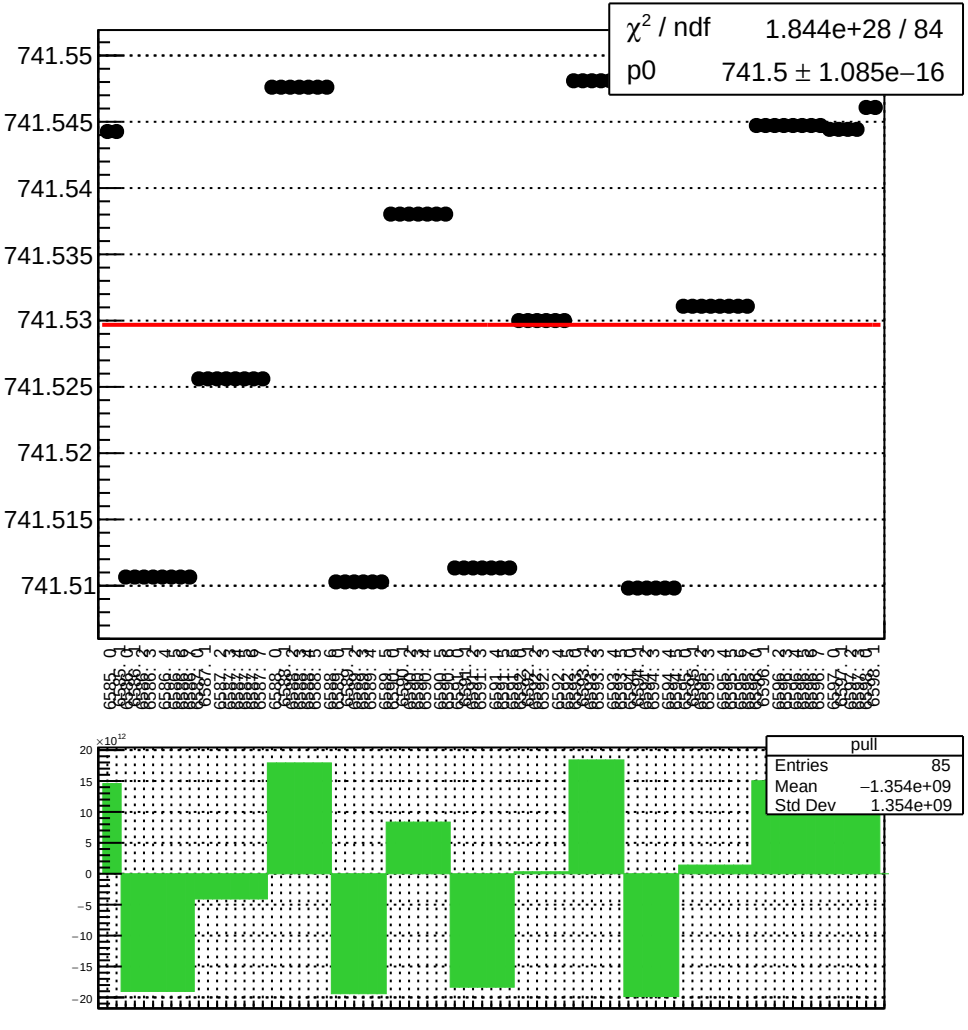

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

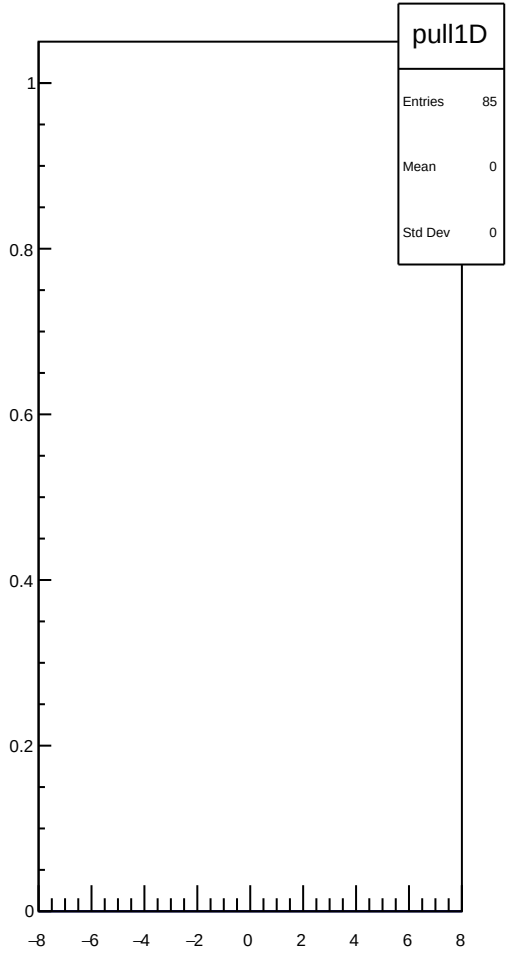

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54

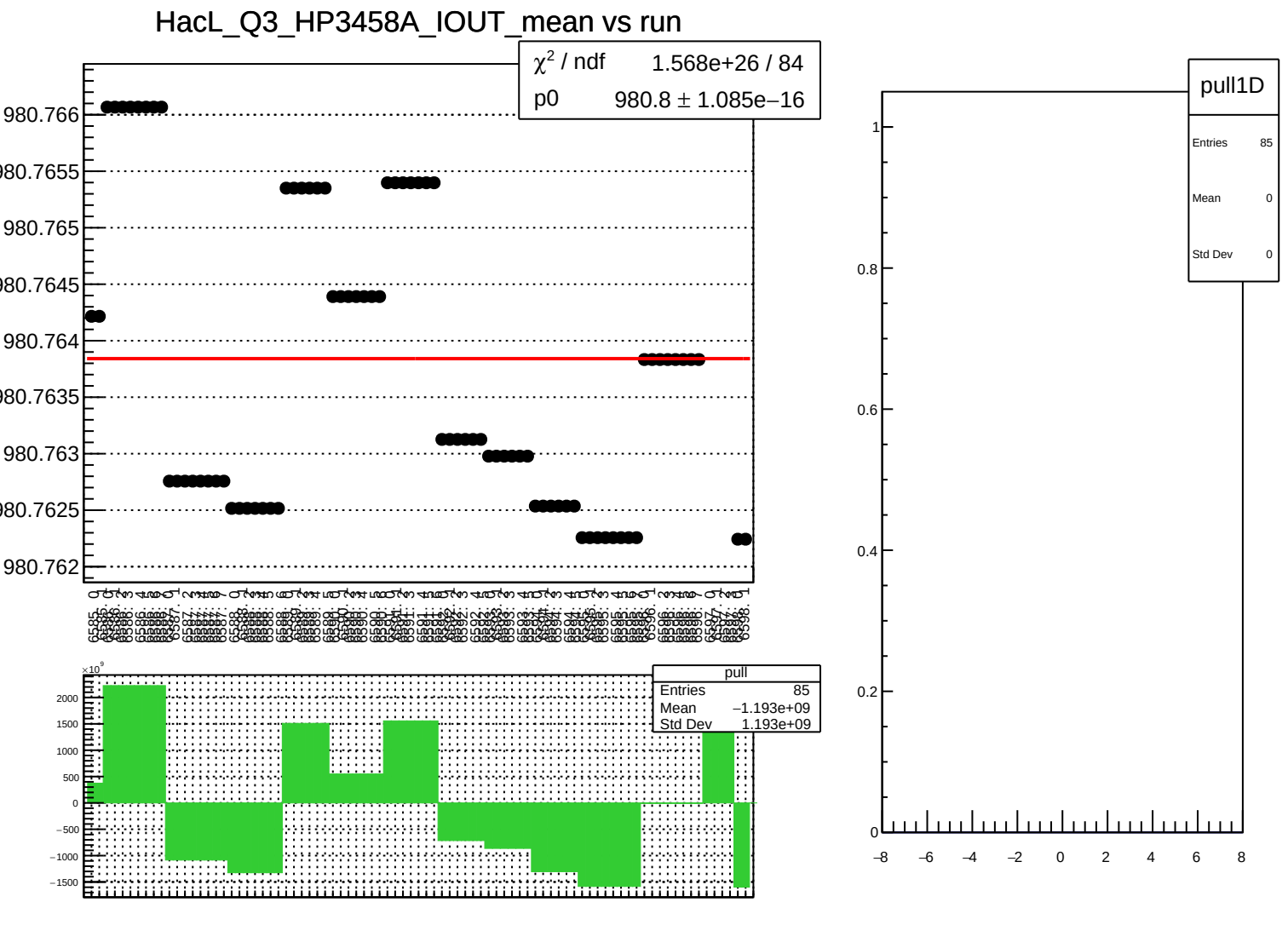

pull1D
Entries 85
Mean 0.02082
Std Dev 5.206e−10

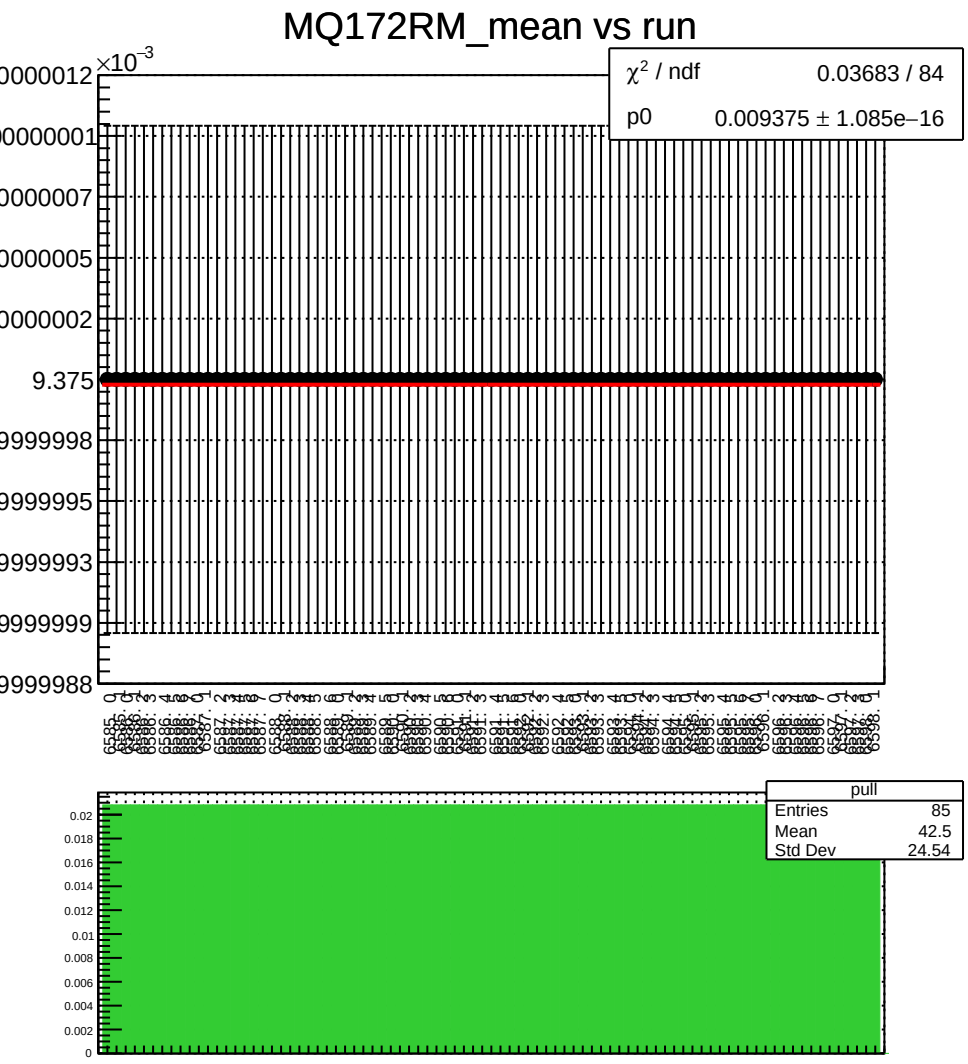

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.753e+26 / 84
p0 931.9 ± 1.085e−16
931.878
931.877
931.876
931.875
931.874
931.873
pull
Entries 85
Mean 9.343e+08
Std Dev 9.343e+08
×10⁹
3000
2000
1000
0
−1000
−2000
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

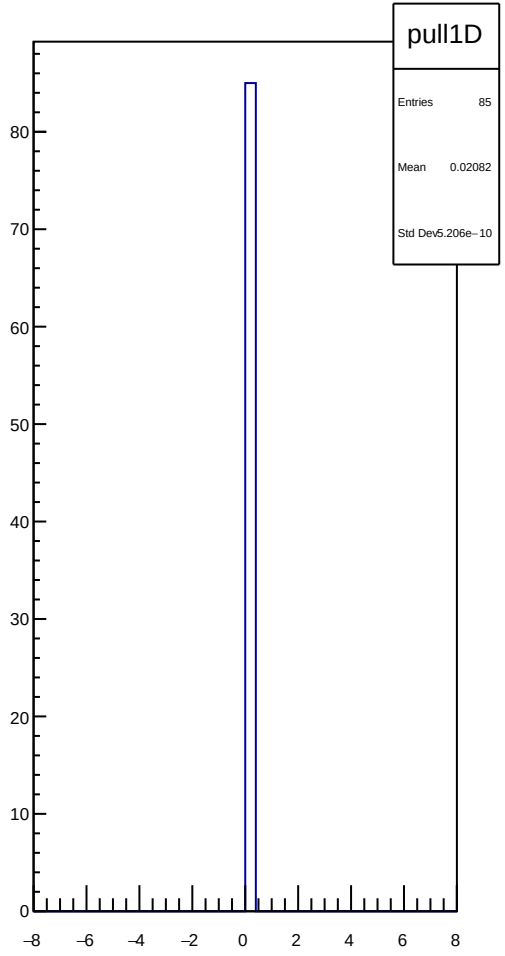
HacL_D1_HP3458A_IOUT_mean vs run

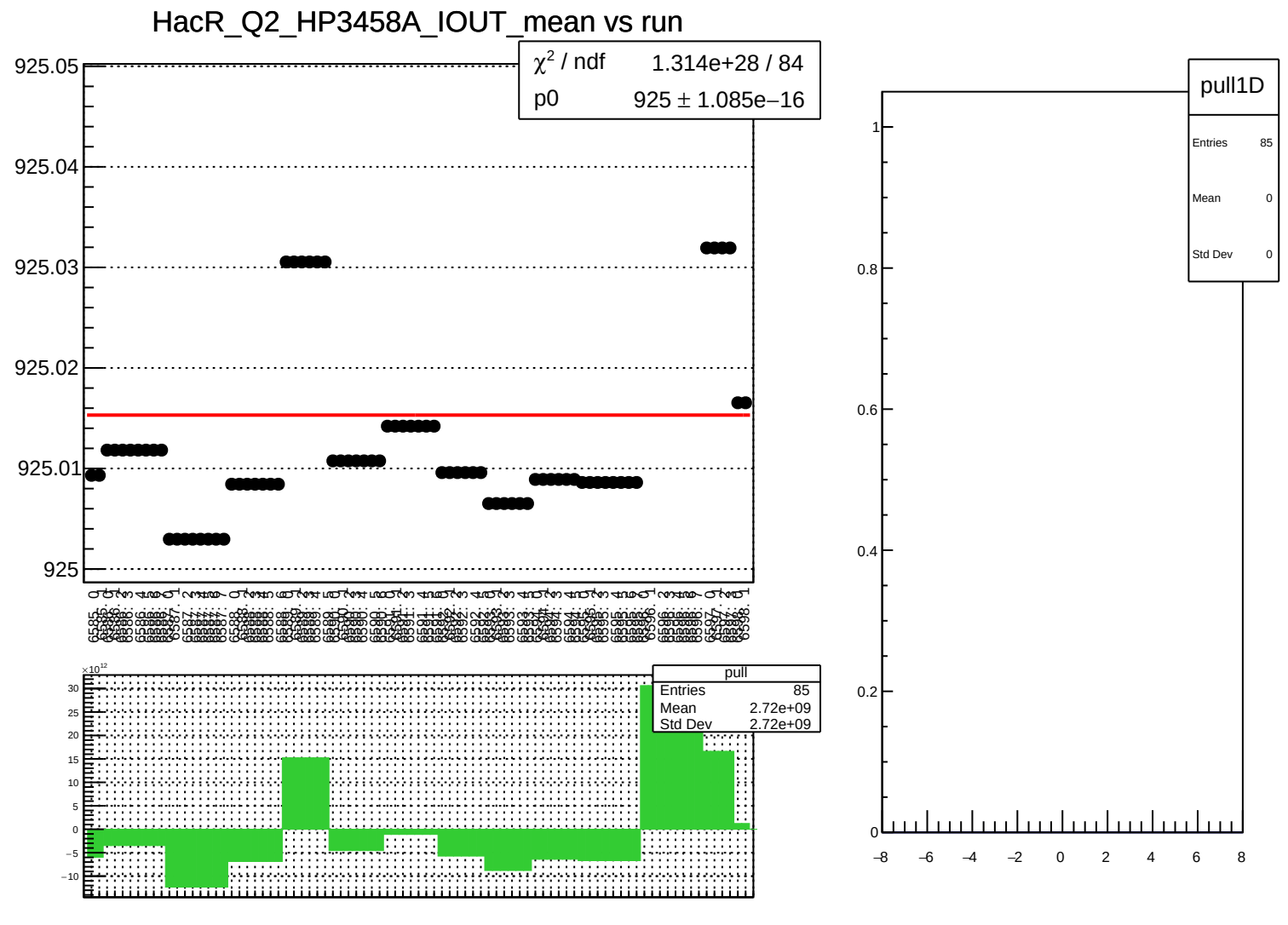


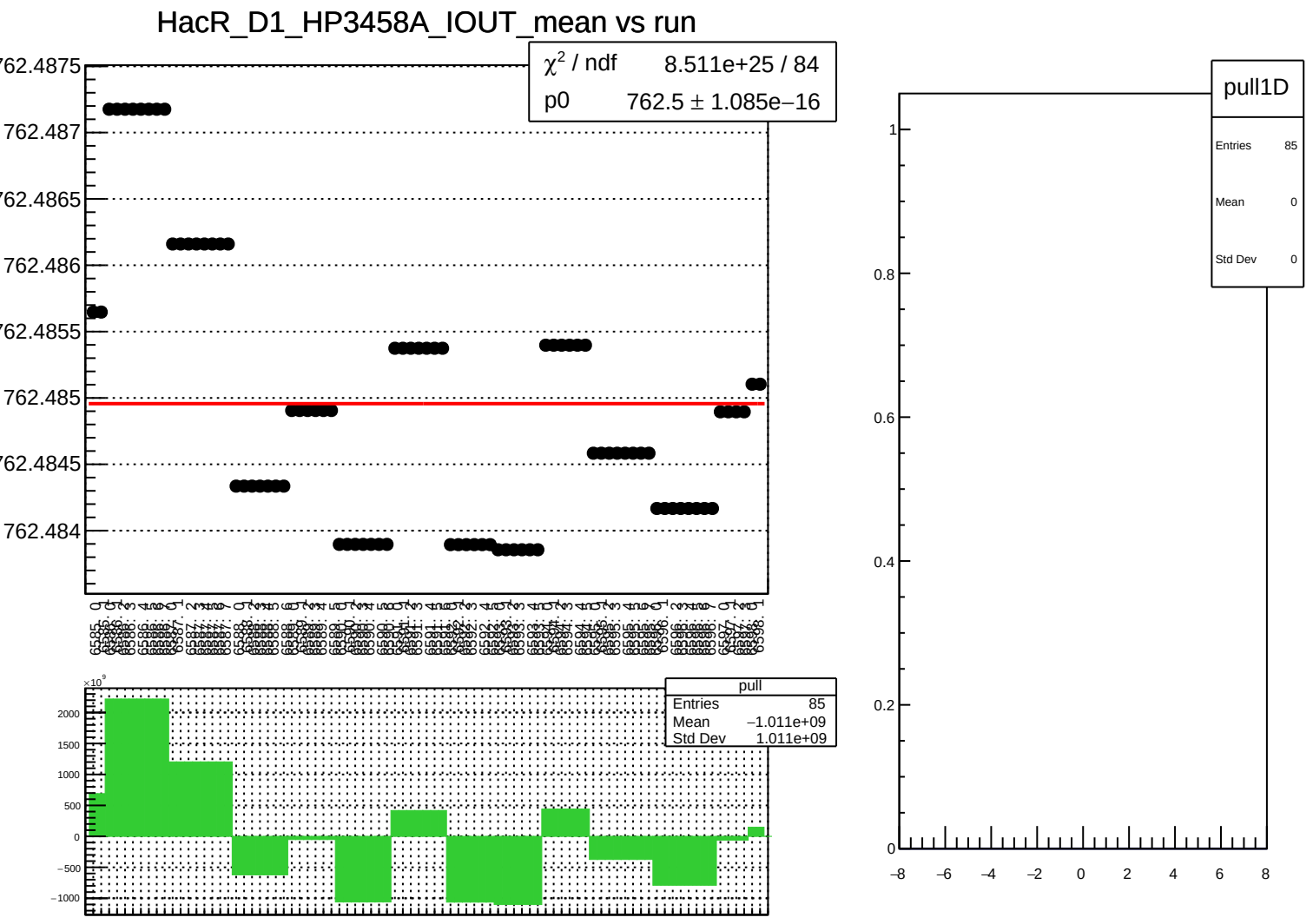


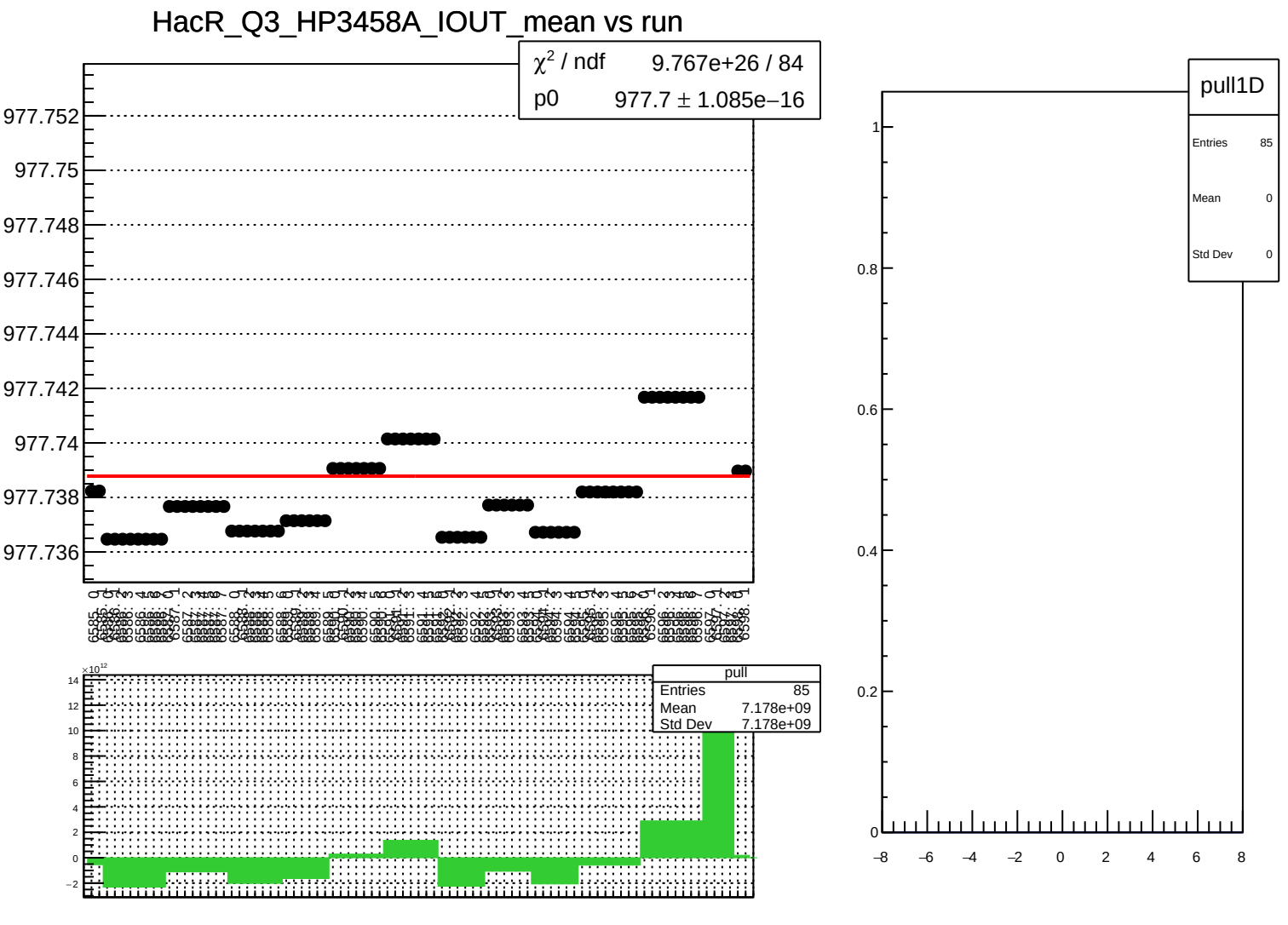

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.568e+26 / 84
p0 980.8 ± 1.085e−16
980.766
980.7655
980.765
980.7645
980.764
980.7635
980.763
980.7625
980.762
pull
Entries 85
Mean −1.193e+09
Std Dev 1.193e+09
×10⁹
2000
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

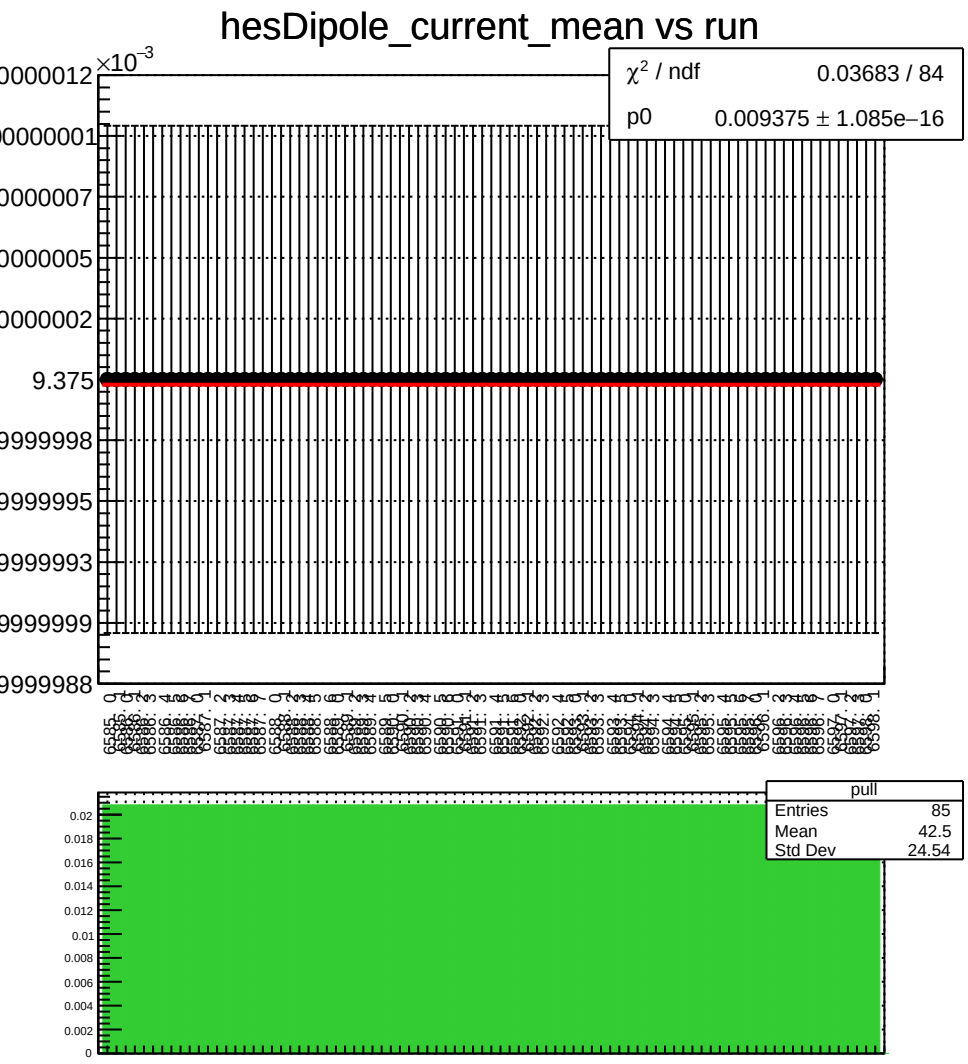

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54

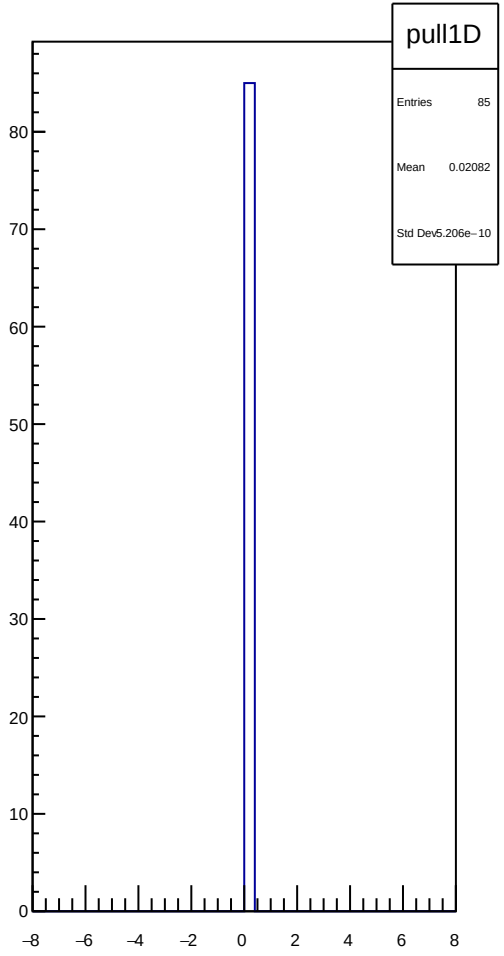

pull1D
Entries 85
Mean 0.02082
Std Dev 5.206e−10

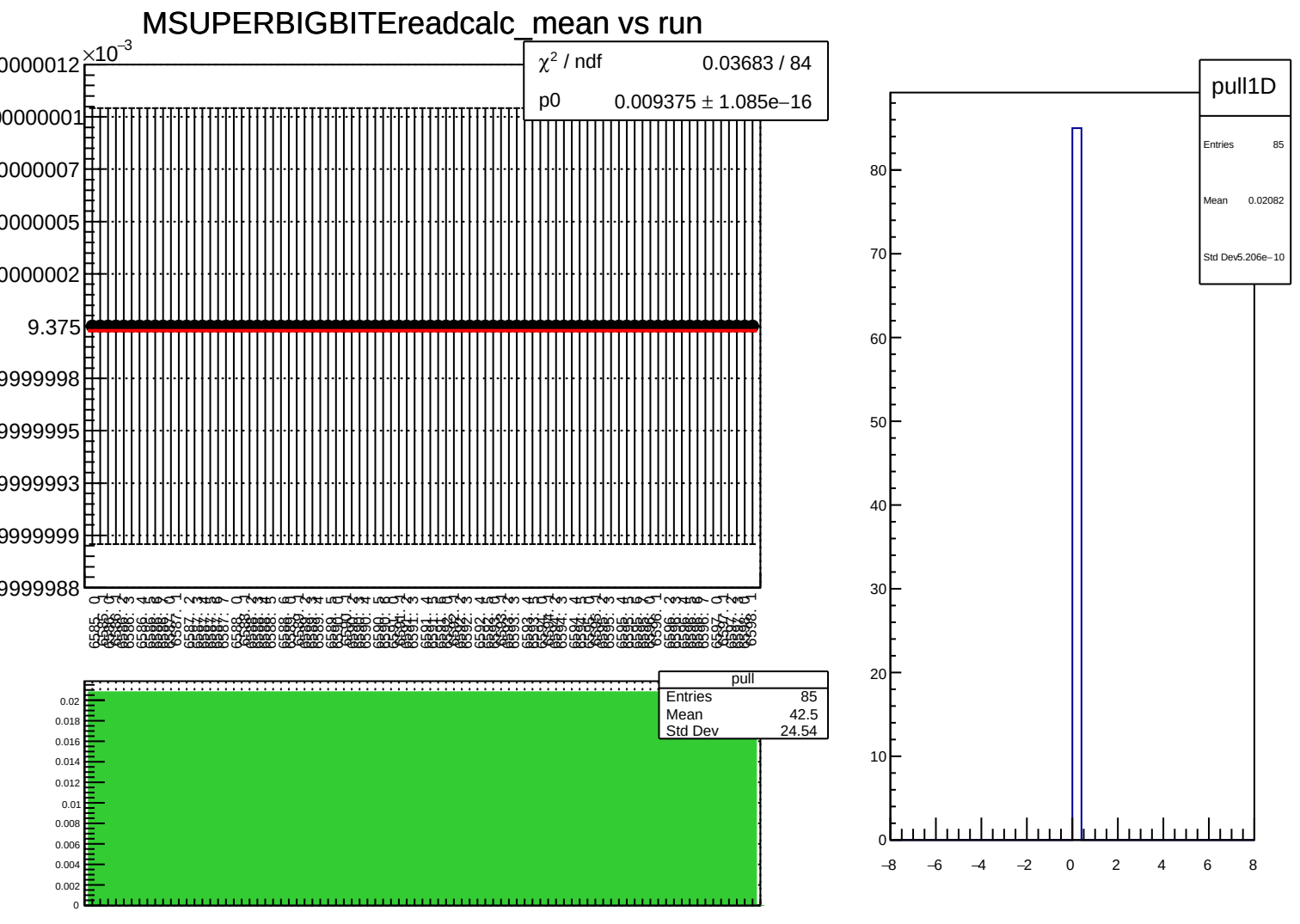

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.314e+28 / 84
p0 925 ± 1.085e−16
925.05
925.04
925.03
925.02
925.01
925
pull
Entries 85
Mean 2.72e+09
Std Dev 2.72e+09
×10¹²
30
25
20
15
10
5
0
−5
−10
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.511e+25 / 84
p0 762.5 ± 1.085e−16
762.4875
762.487
762.4865
762.486
762.4855
762.485
762.4845
762.484
pull
Entries 85
Mean −1.011e+09
Std Dev 1.011e+09
×10⁹
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

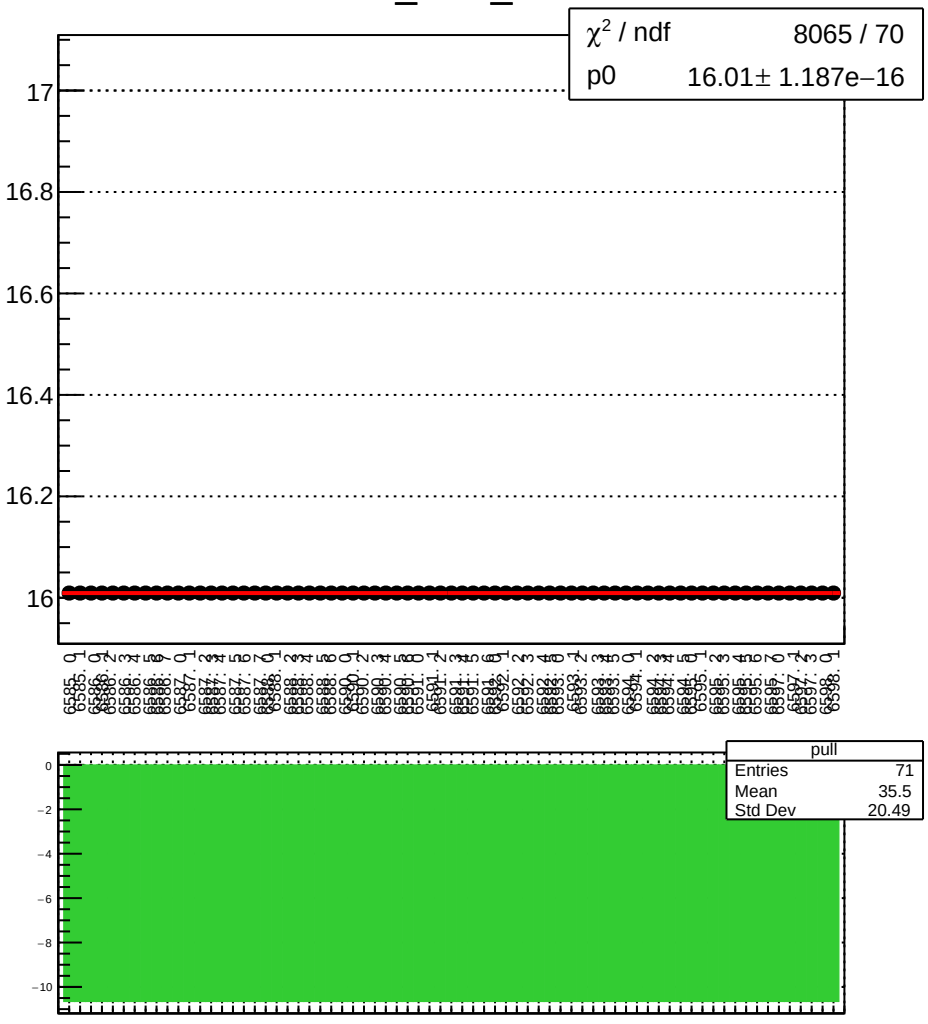

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 9.767e+26 / 84
p0 977.7 ± 1.085e−16
977.752
977.75
977.748
977.746
977.744
977.742
977.74
977.738
977.736
pull
Entries 85
Mean 7.178e+09
Std Dev 7.178e+09
×10¹²
14
12
10
8
6
4
2
0
−2
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

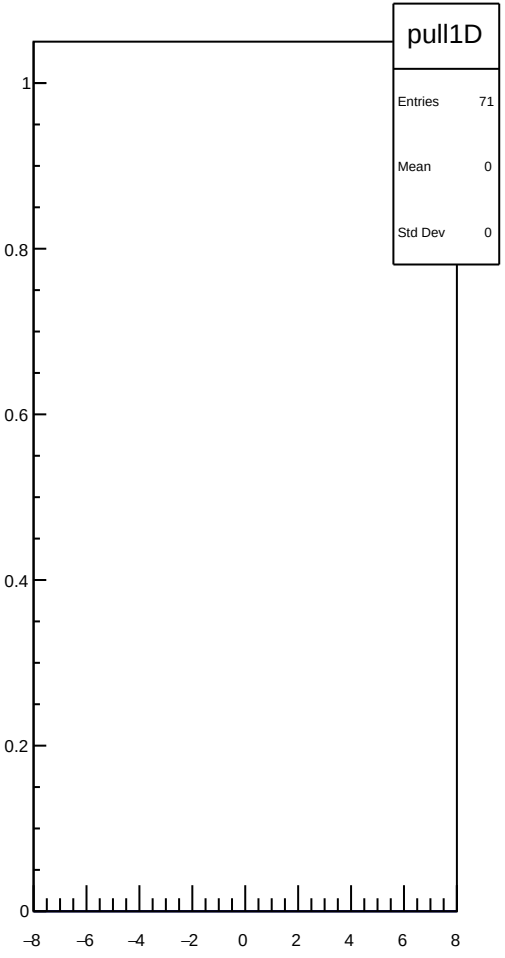

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54

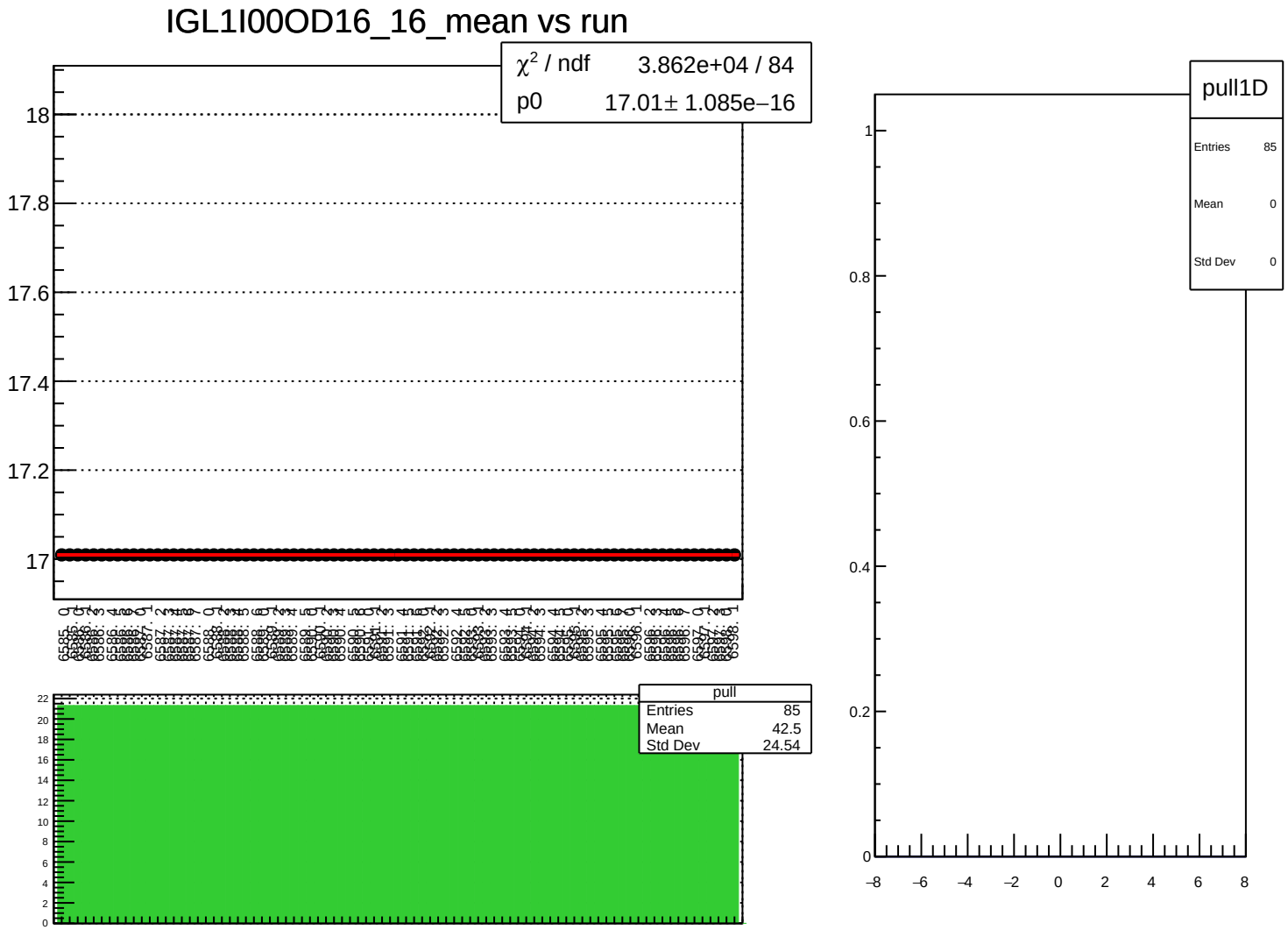

pull1D
Entries 85
Mean 0.02082
Std Dev 5.206e−10


MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0.02082
Std Dev 5.206e−10

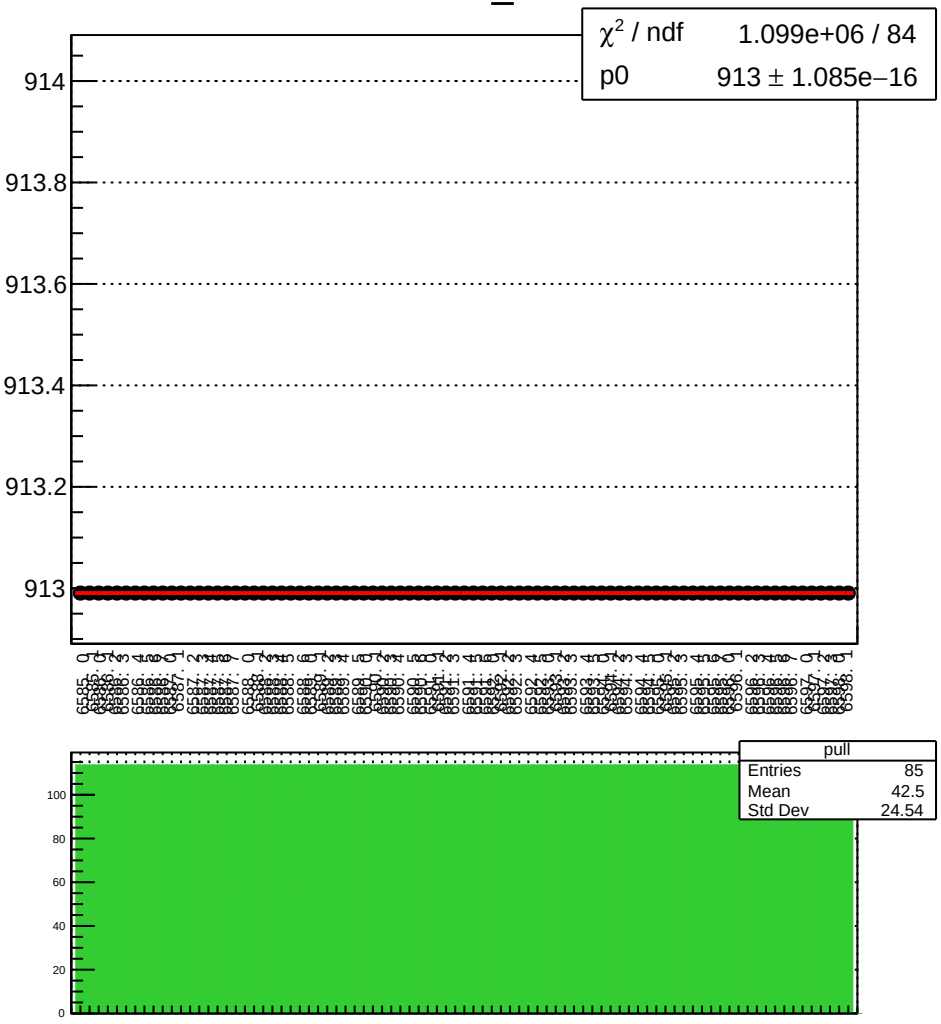
IGL1I00DI24_24M_mean vs run

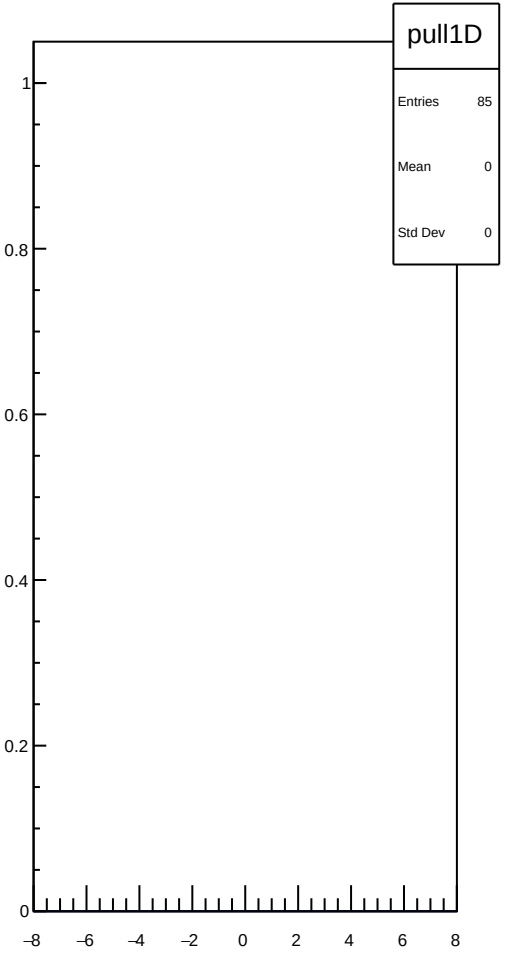
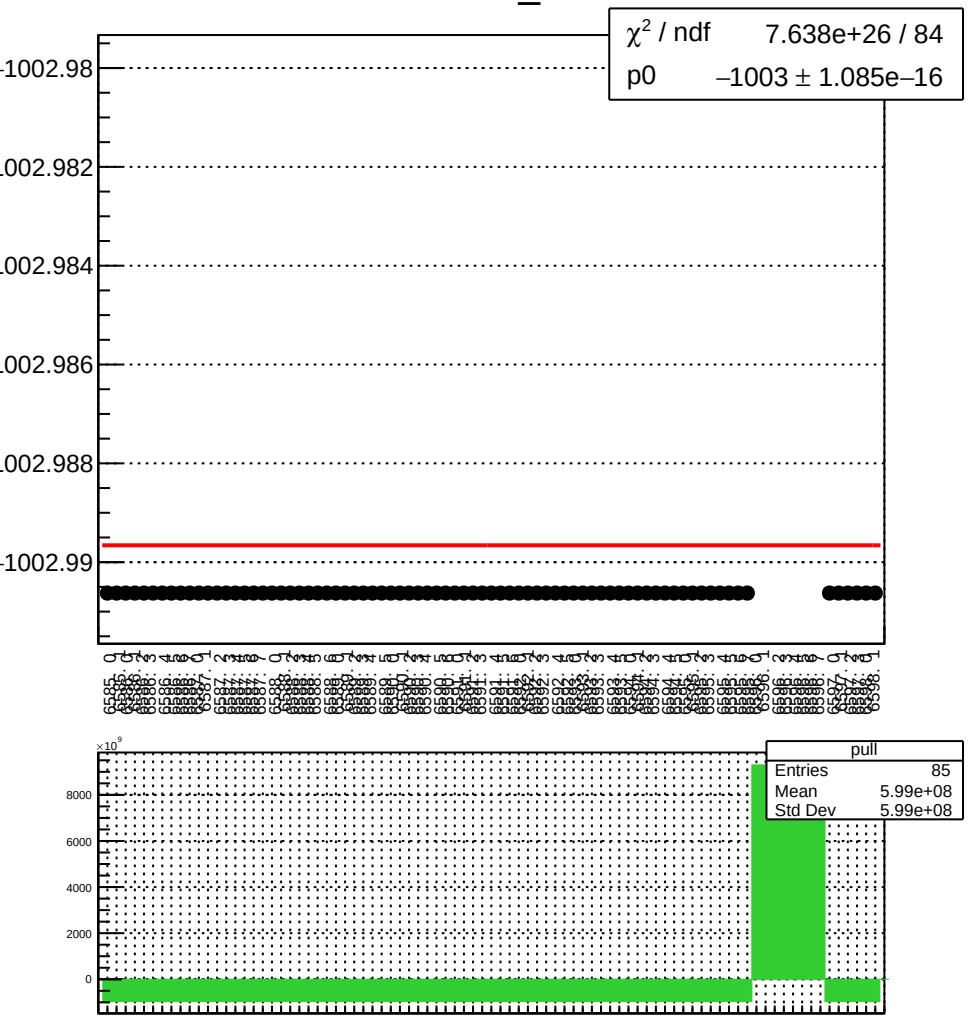
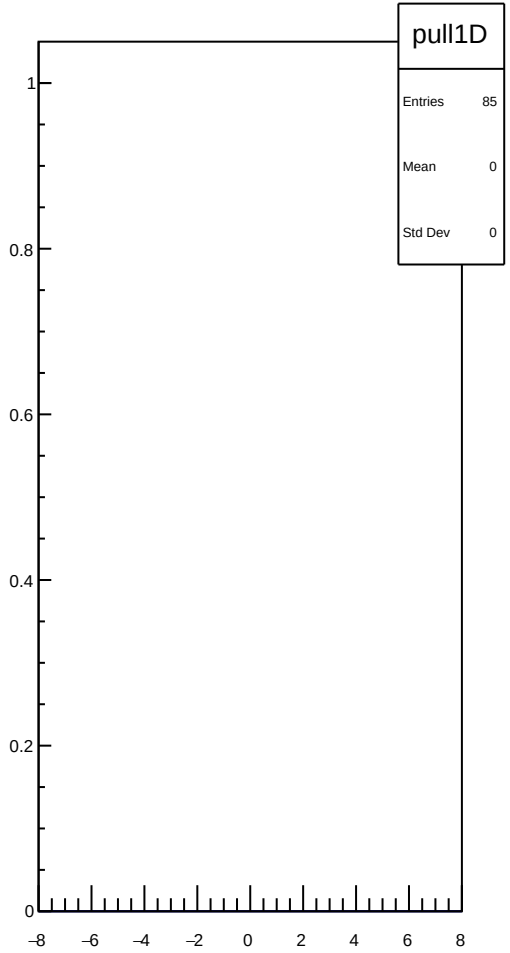





IGL1I00OD16_16_mean vs run
χ² / ndf 3.862e+04 / 84
p0 17.01± 1.085e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 85
Mean 42.5
Std Dev 24.54
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

RTPAPOSUCNT_mean vs run





RTPAPOSVCNT_mean vs run