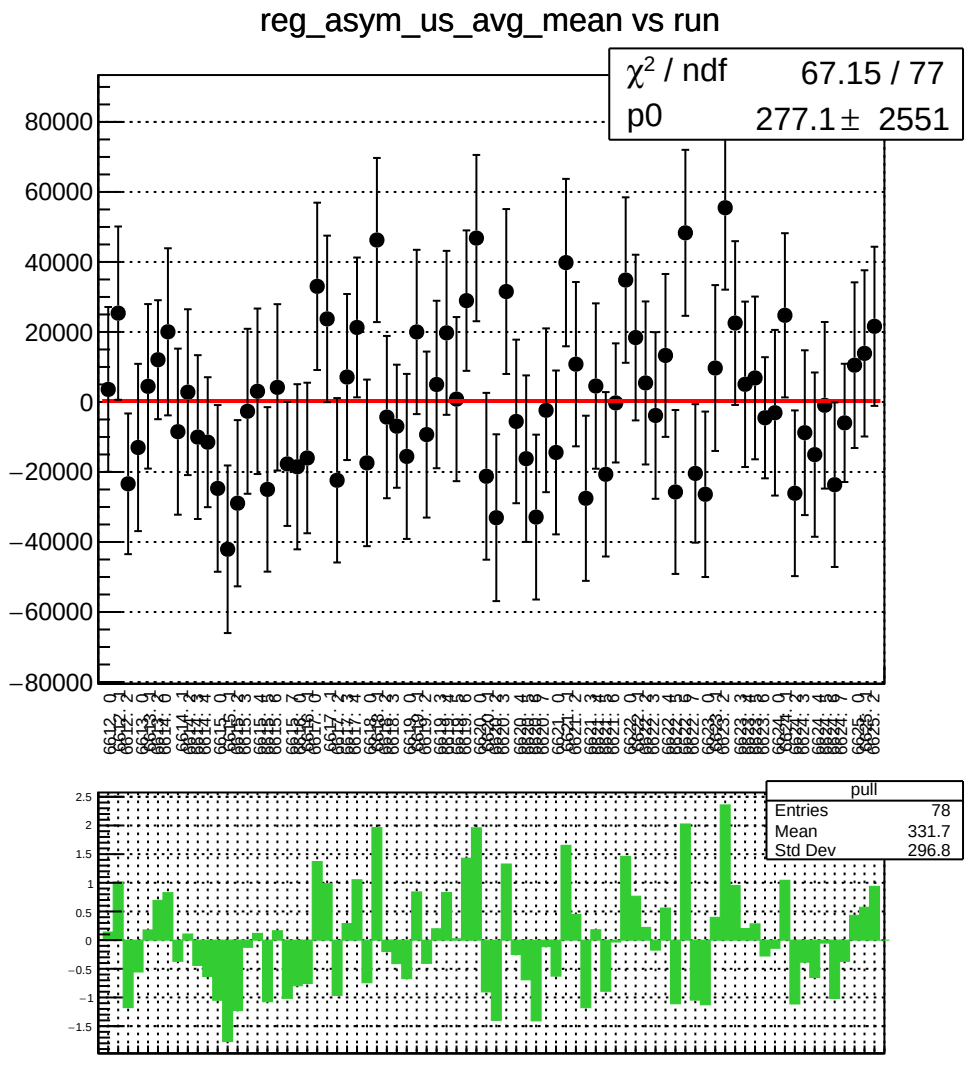
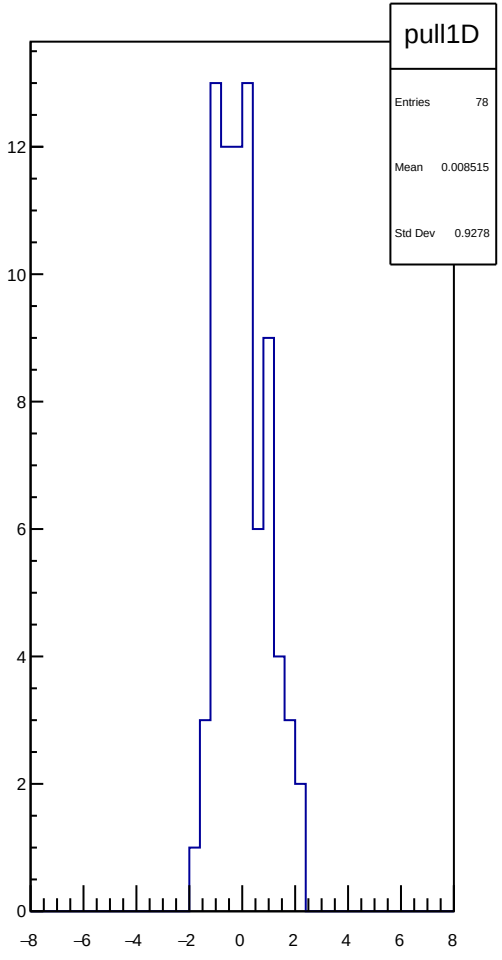
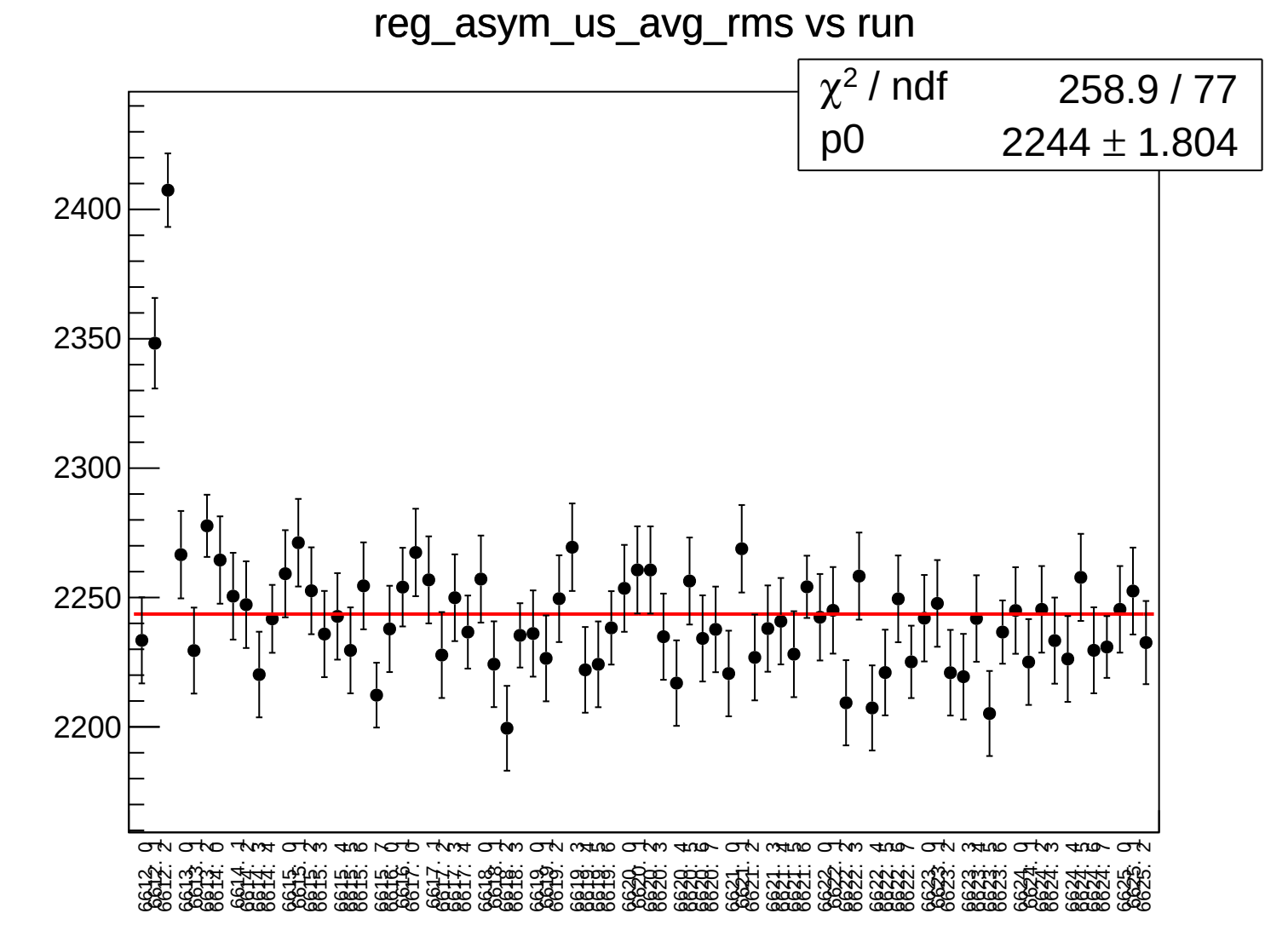
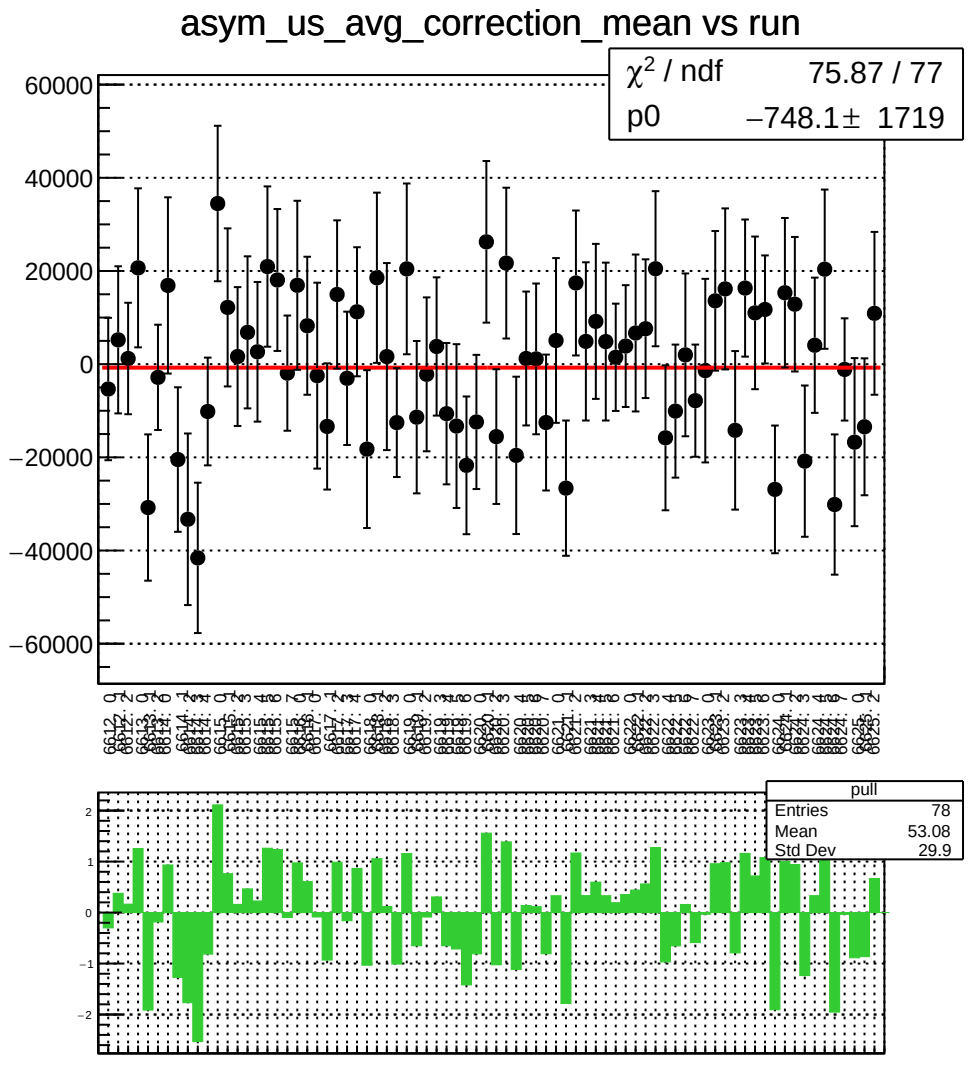
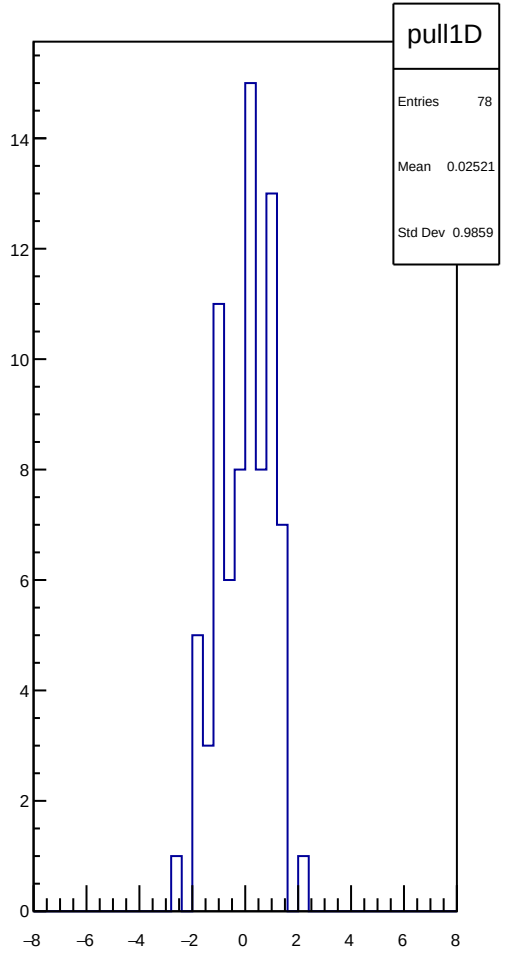
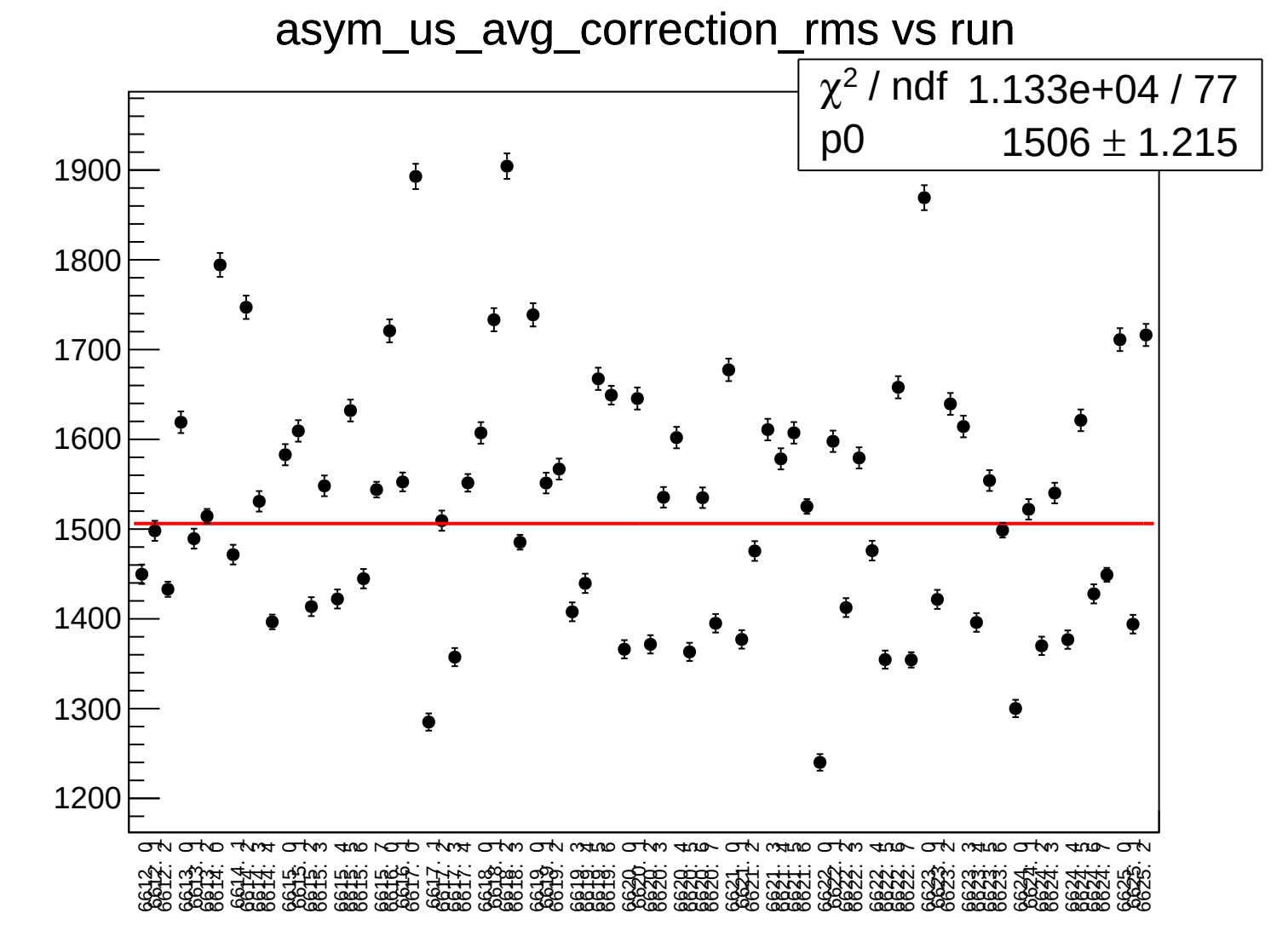

reg_asym_us_avg_mean vs run
χ² / ndf 67.15 / 77
p0 277.1 ± 2551
pull
Entries 78
Mean 331.7
Std Dev 296.8

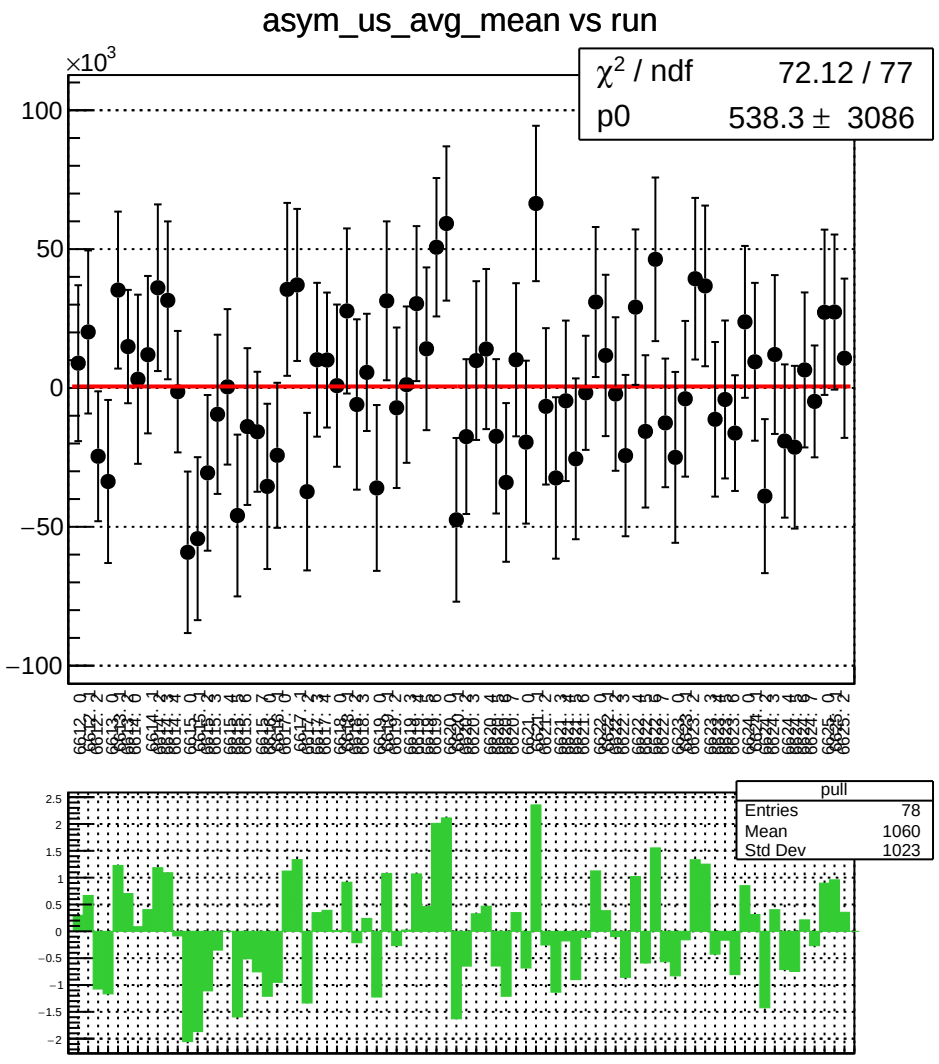

pull1D
Entries 78
Mean 0.008515
Std Dev 0.9278

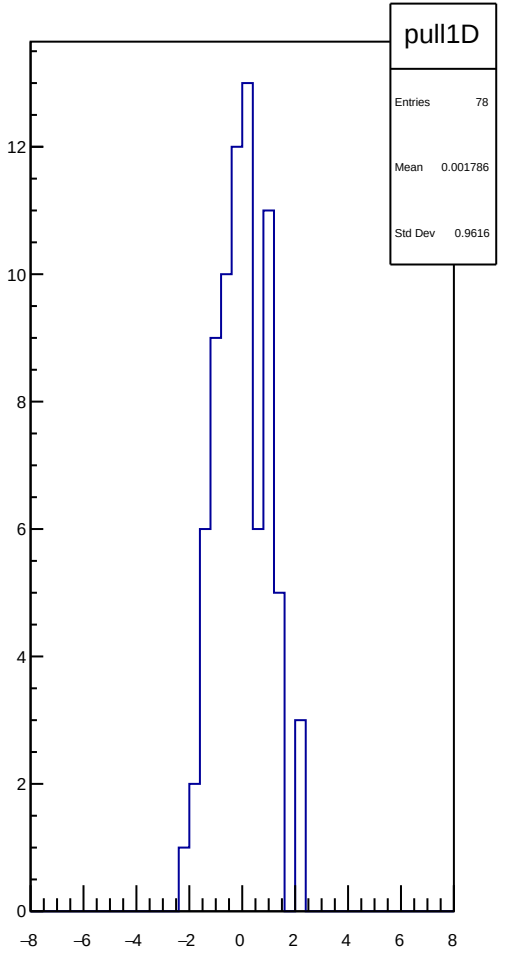

reg_asym_us_avg_rms vs run
χ² / ndf 258.9 / 77
p0 2244 ± 1.804
2400
2350
2300
2250
2200

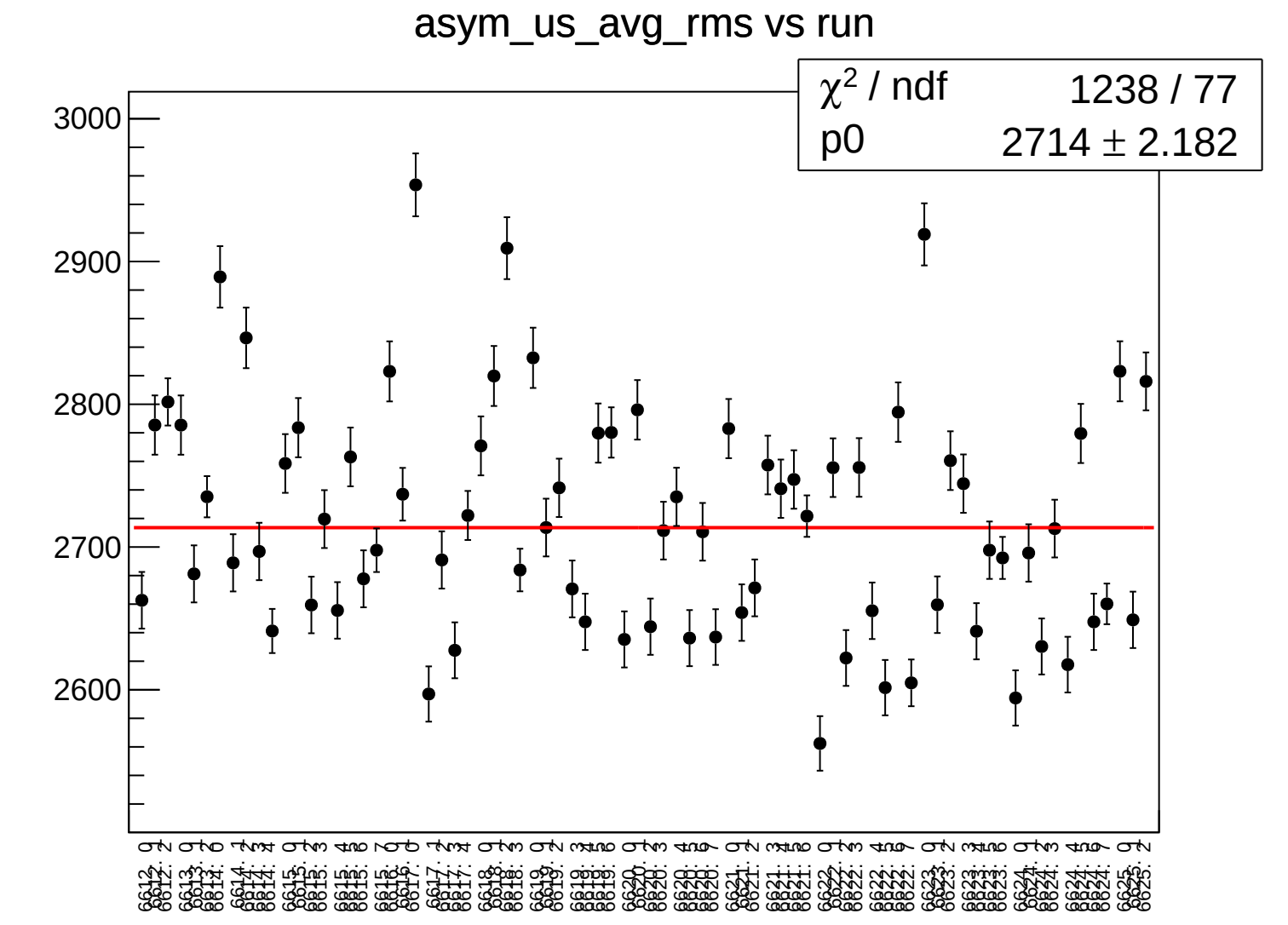

asym_us_avg_correction_mean vs run
χ² / ndf 75.87 / 77
p0 −748.1± 1719
pull
Entries 78
Mean 53.08
Std Dev 29.9

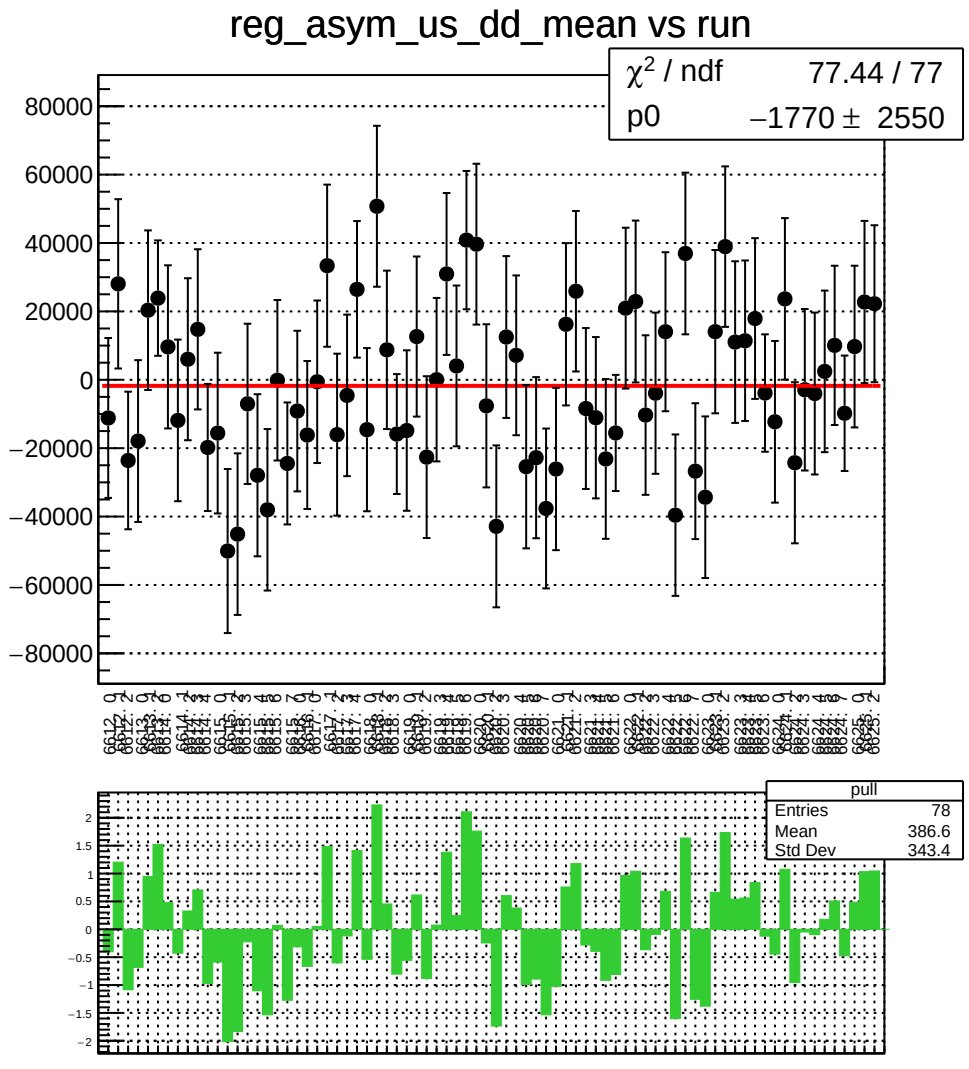

pull1D
Entries 78
Mean 0.02521
Std Dev 0.9859

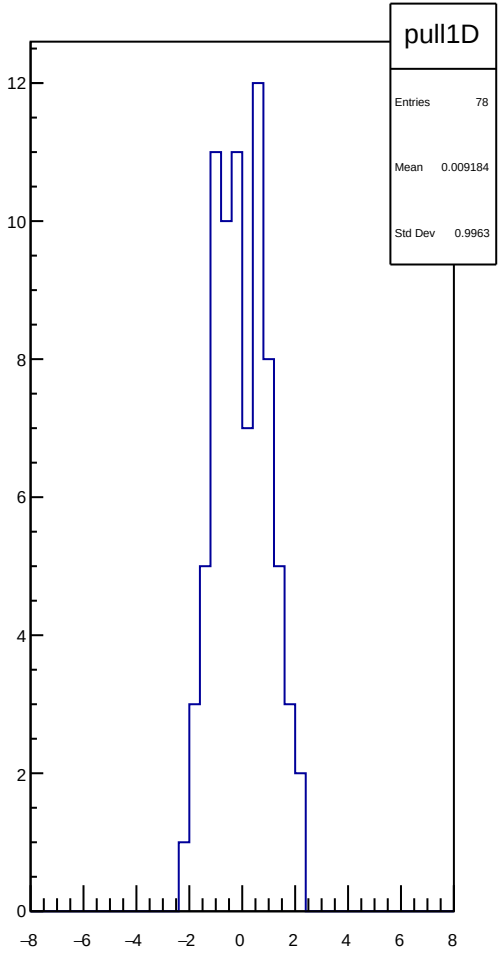

asym_us_avg_correction_rms vs run
χ² / ndf 1.133e+04 / 77
p0 1506 ± 1.215
1900
1800
1700
1600
1500
1400
1300
1200

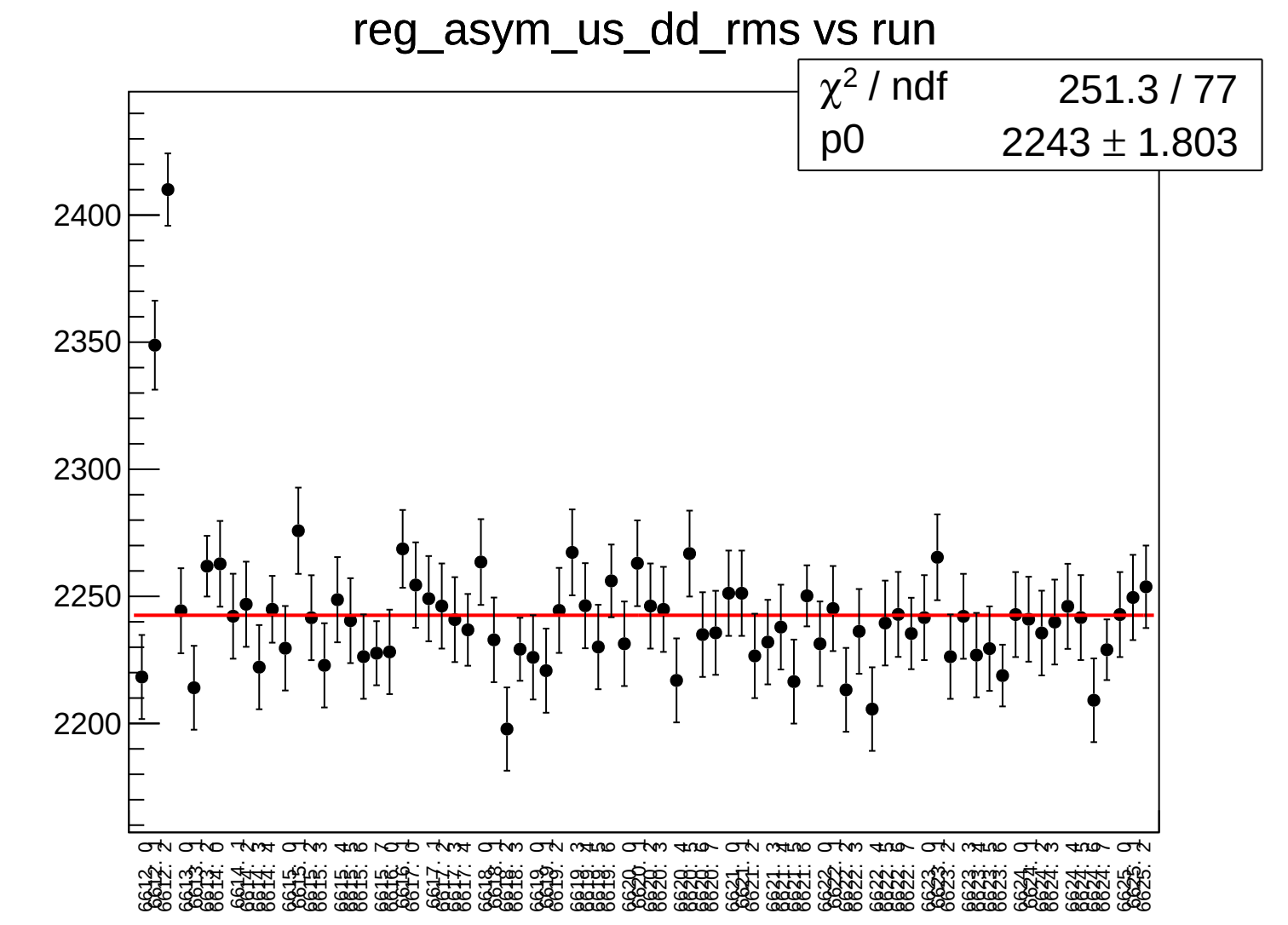

asym_us_avg_mean vs run
×10^3
χ² / ndf 72.12 / 77
p0 538.3 ± 3086
100
50
0
−50
−100
pull
Entries 78
Mean 1060
Std Dev 1023
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

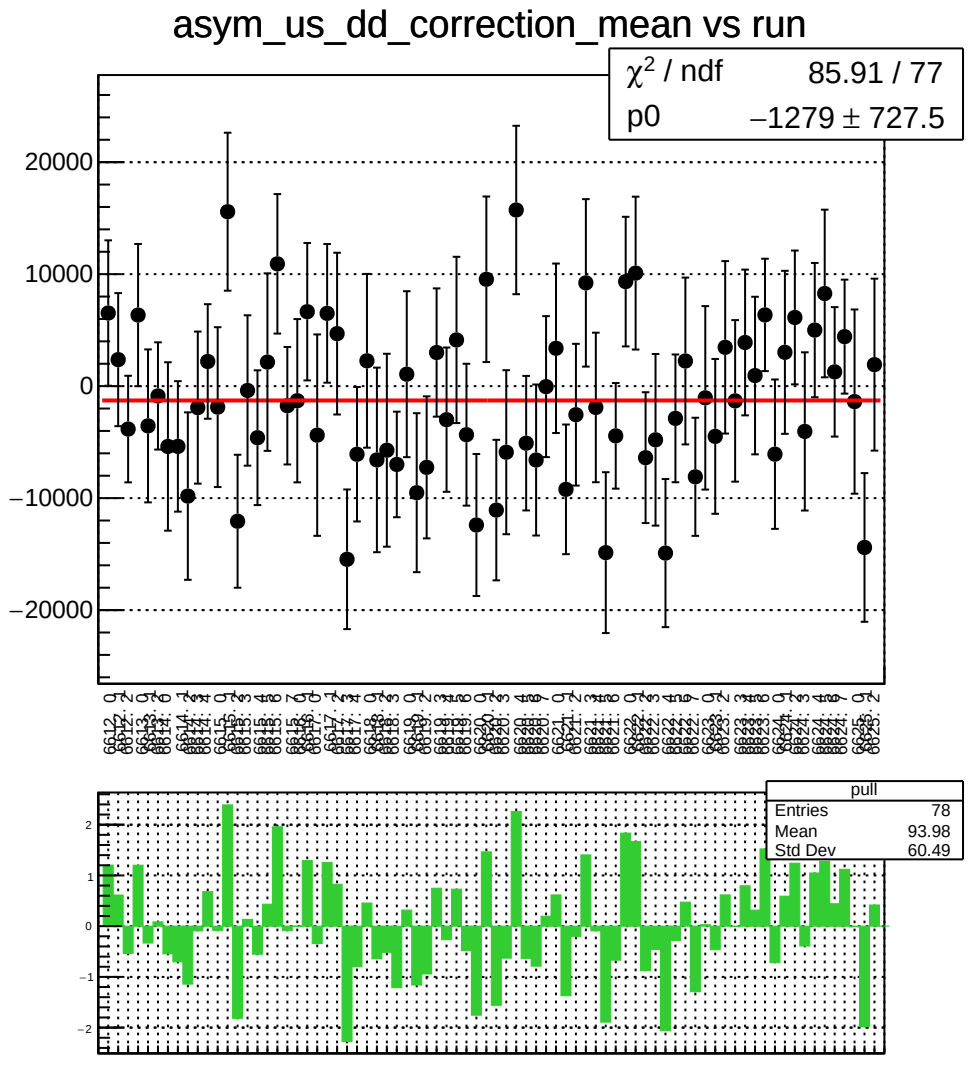

pull1D
Entries 78
Mean 0.001786
Std Dev 0.9616
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

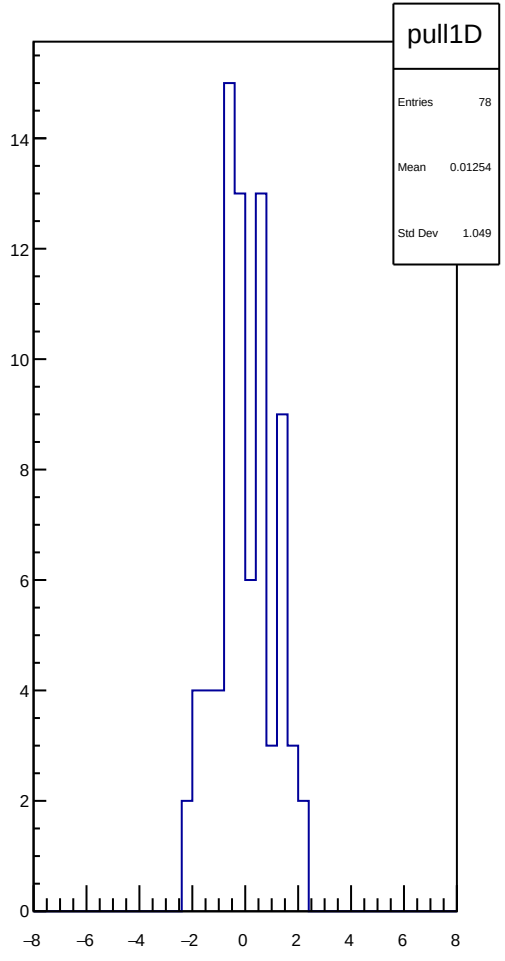

asym_us_avg_rms vs run
χ² / ndf 1238 / 77
p0 2714 ± 2.182
3000
2900
2800
2700
2600

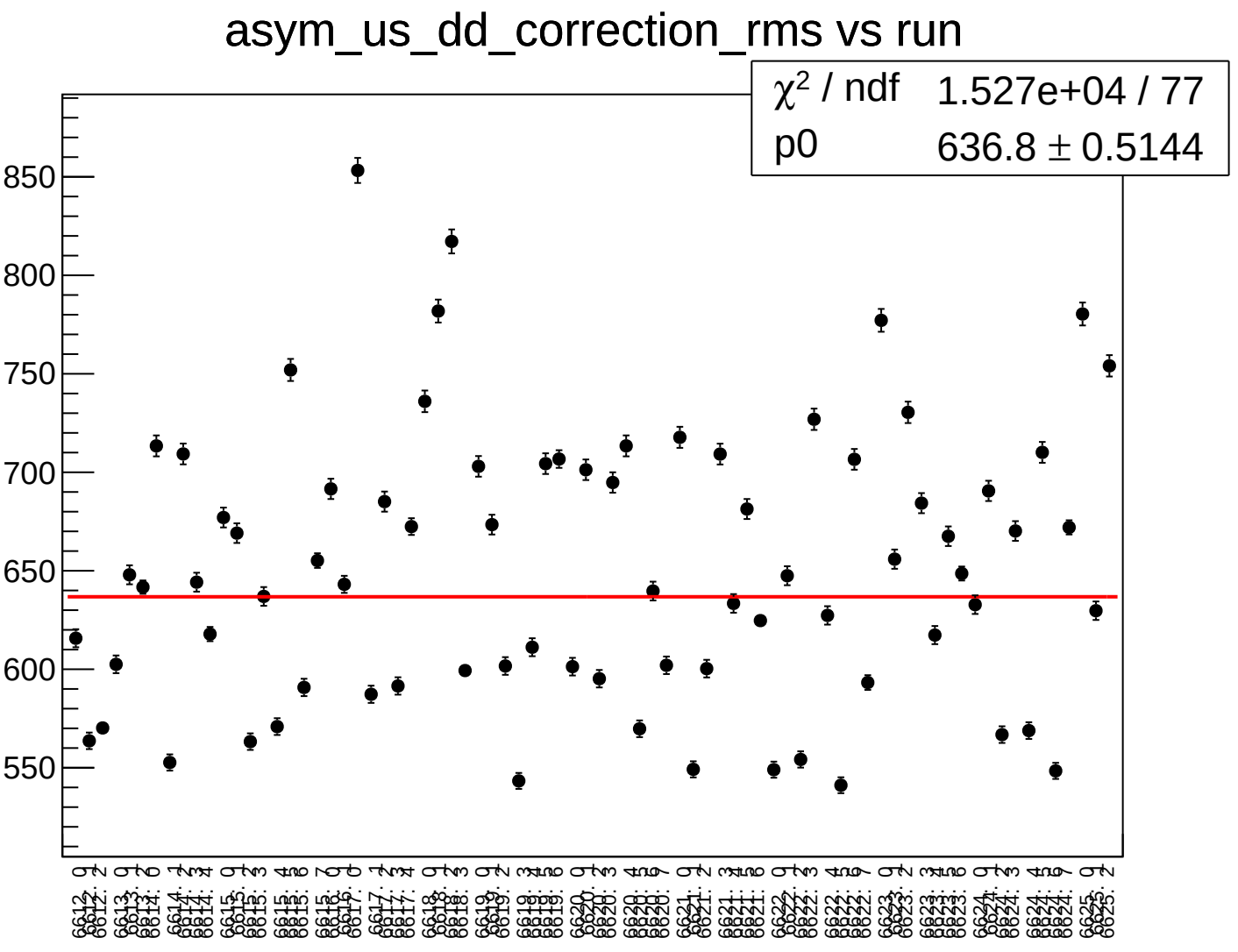

reg_asym_us_dd_mean vs run
χ² / ndf 77.44 / 77
p0 −1770 ± 2550
pull
Entries 78
Mean 386.6
Std Dev 343.4

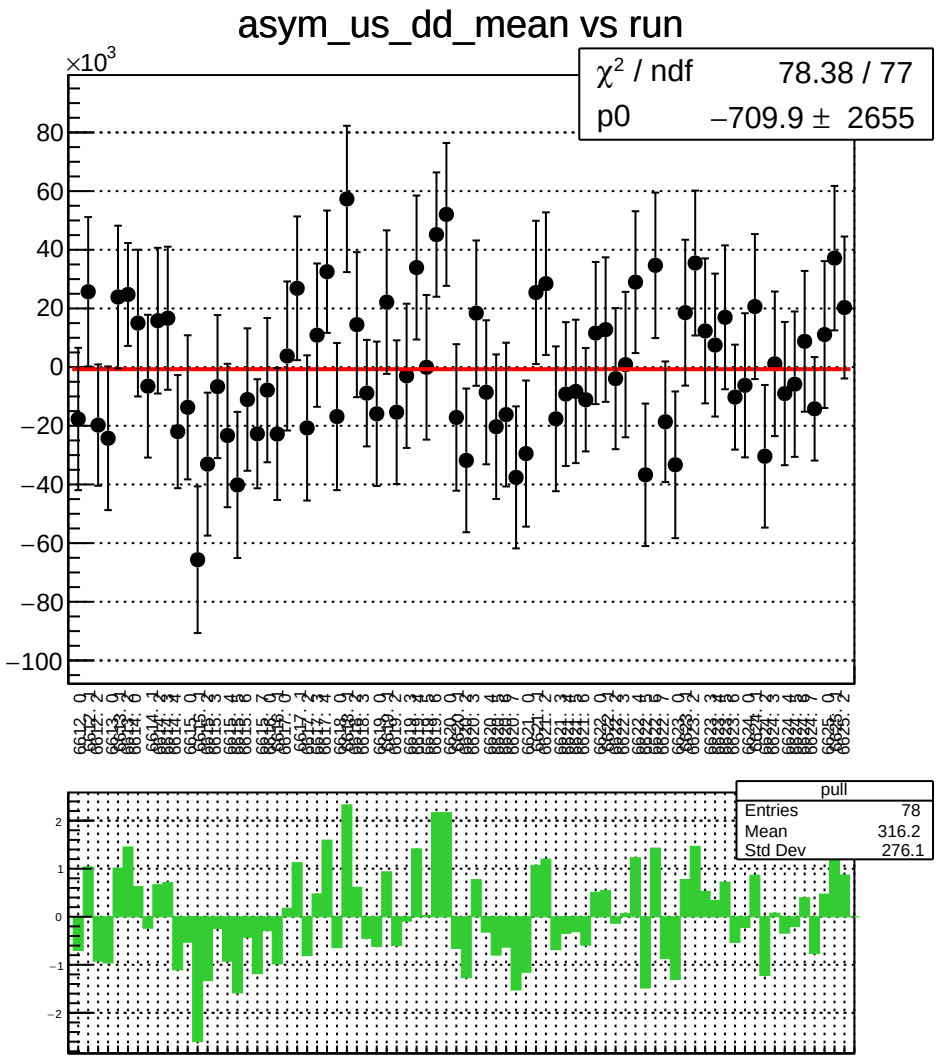

pull1D
Entries 78
Mean 0.009184
Std Dev 0.9963

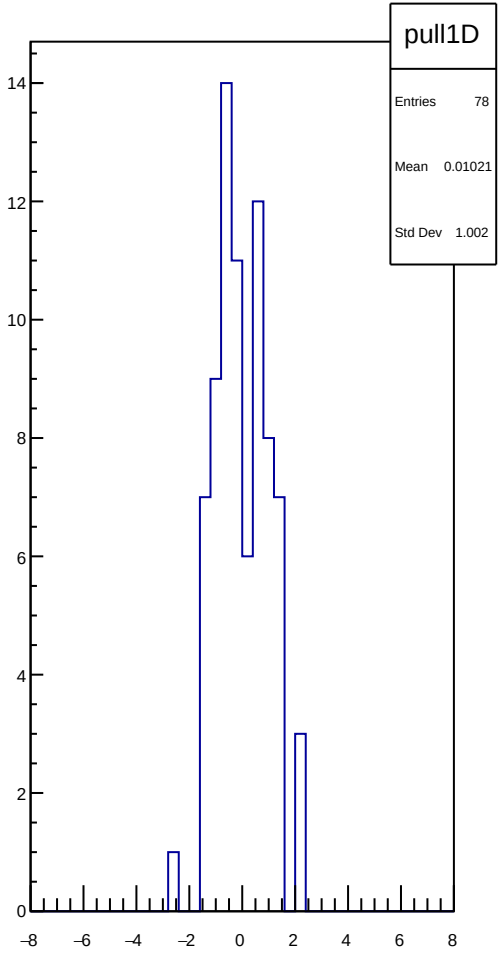

reg_asym_us_dd_rms vs run
χ² / ndf 251.3 / 77
p0 2243 ± 1.803
2400
2350
2300
2250
2200

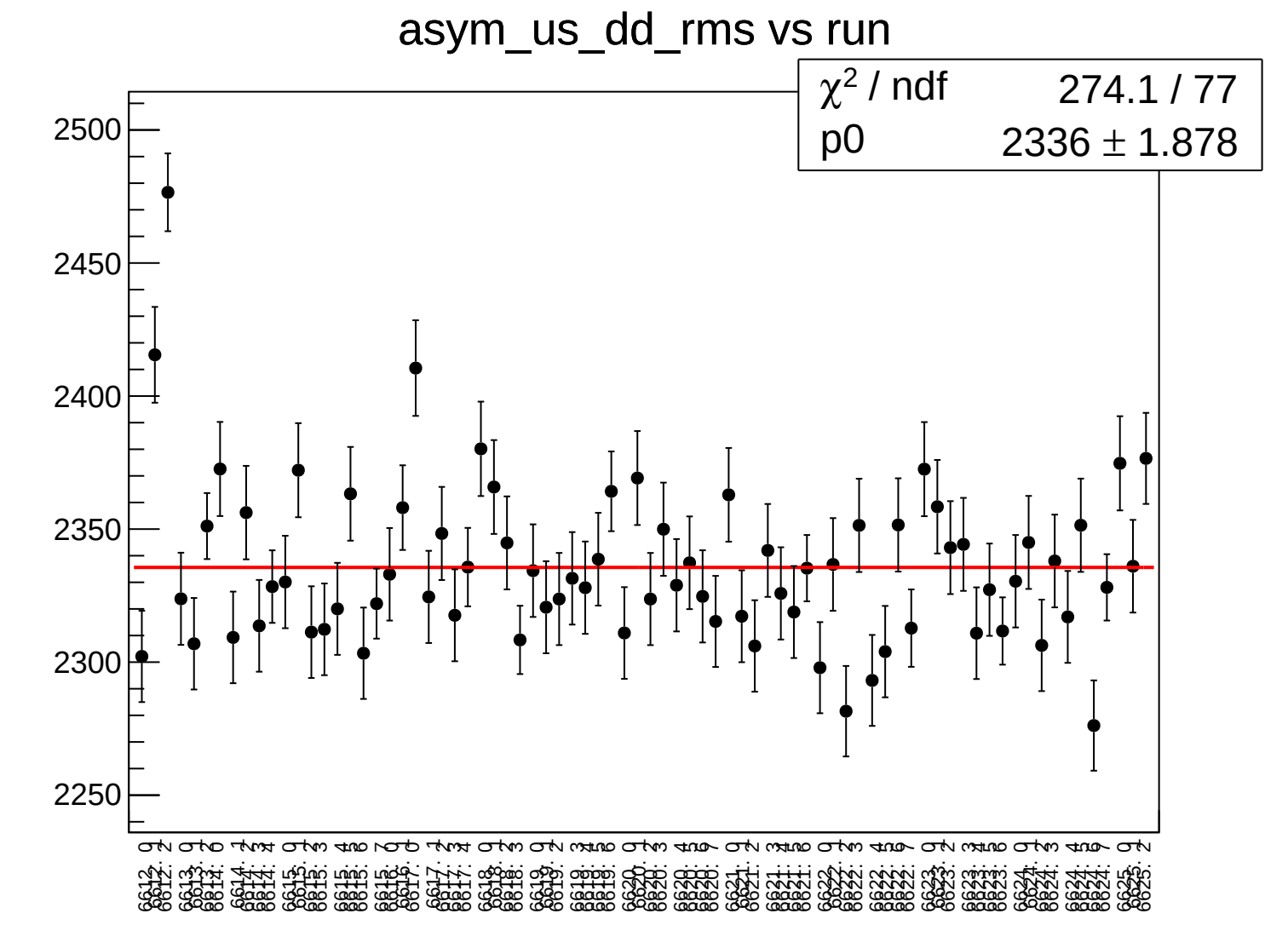

asym_us_dd_correction_mean vs run
χ² / ndf 85.91 / 77
p0 −1279 ± 727.5
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 93.98
Std Dev 60.49
2
1
0
−1
−2

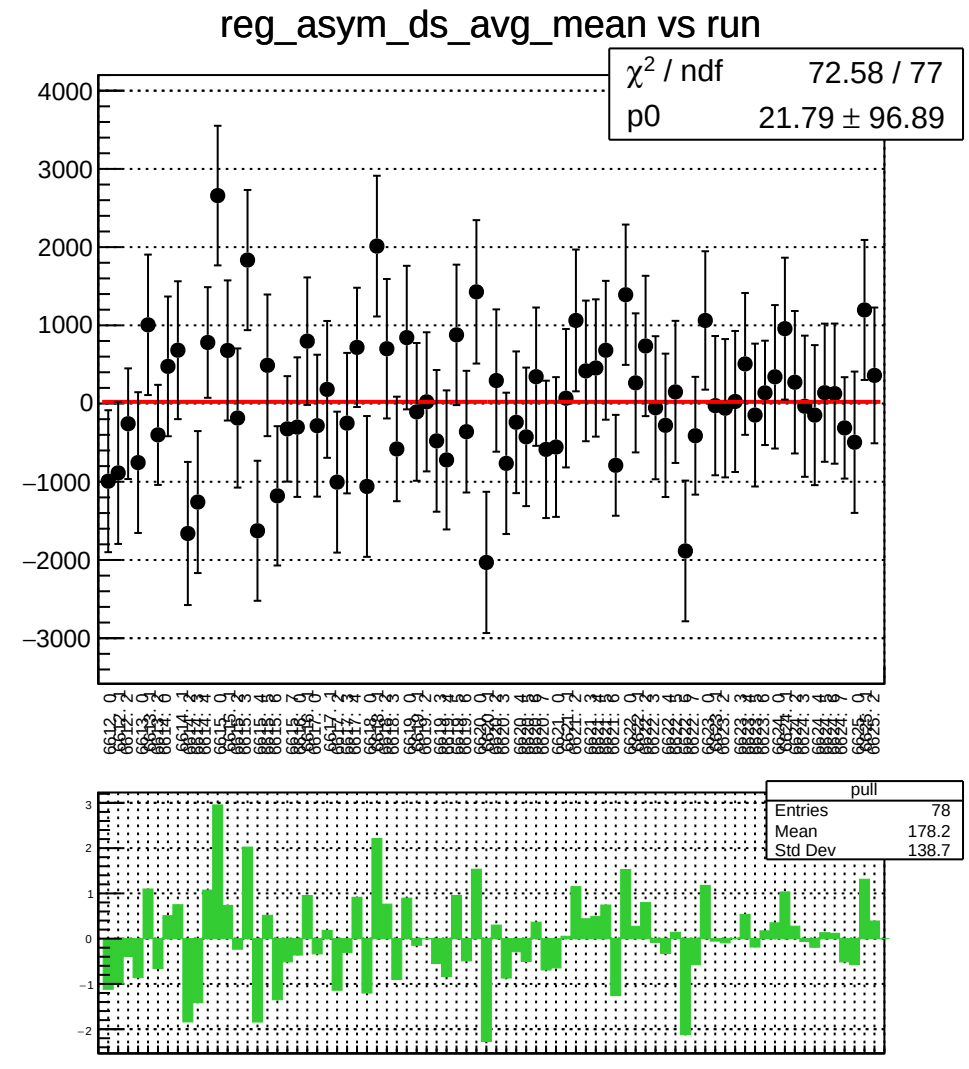

pull1D
Entries 78
Mean 0.01254
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

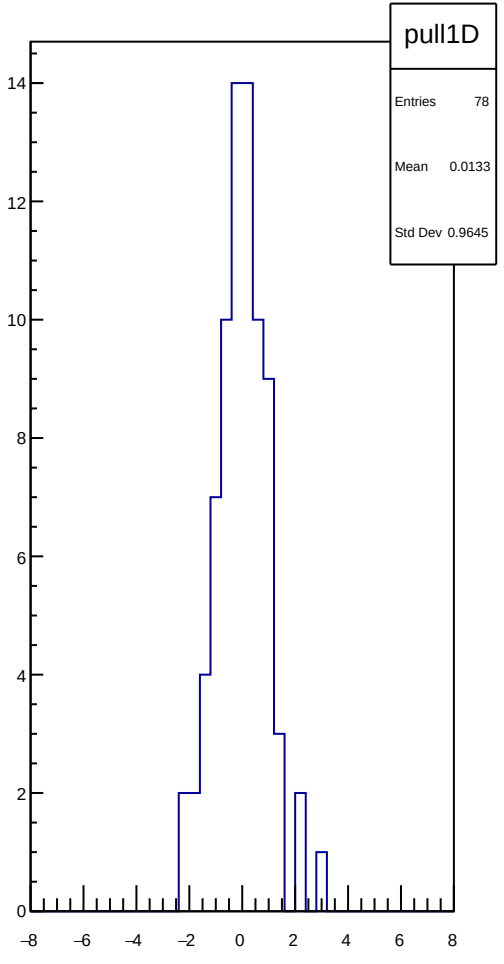

asym_us_dd_correction_rms vs run
χ² / ndf 1.527e+04 / 77
p0 636.8 ± 0.5144
850
800
750
700
650
600
550

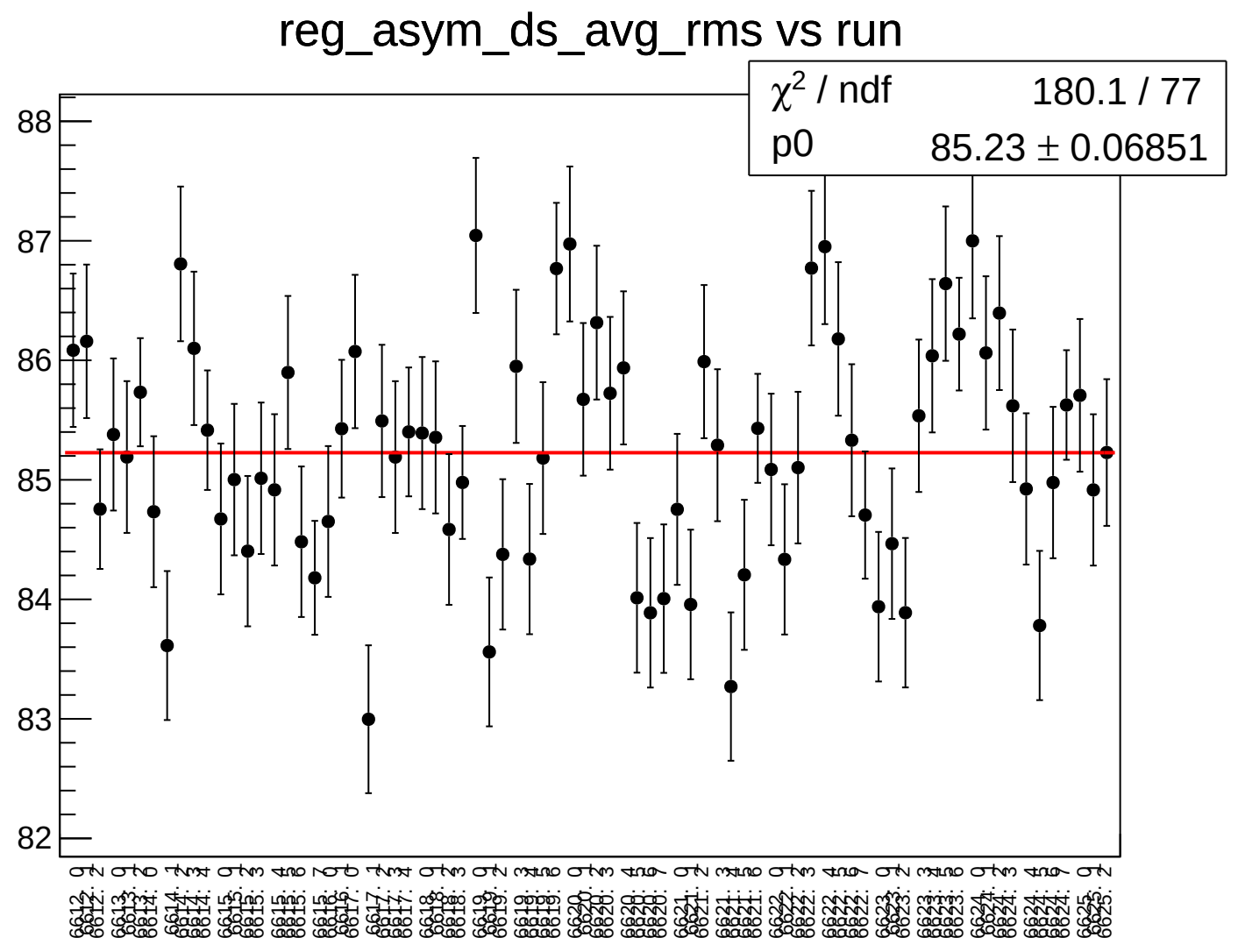

asym_us_dd_mean vs run
χ² / ndf 78.38 / 77
p0 −709.9 ± 2655
×10³
pull
Entries 78
Mean 316.2
Std Dev 276.1

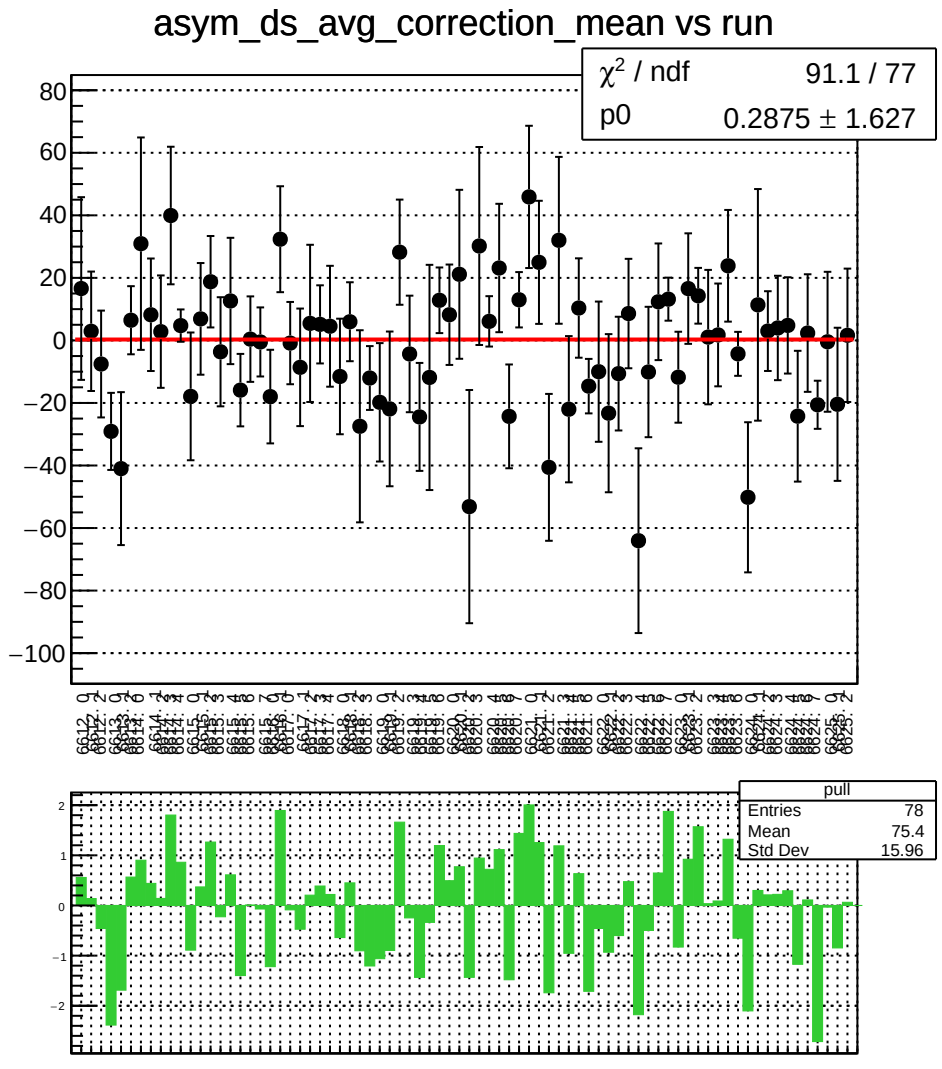

pull1D
Entries 78
Mean 0.01021
Std Dev 1.002

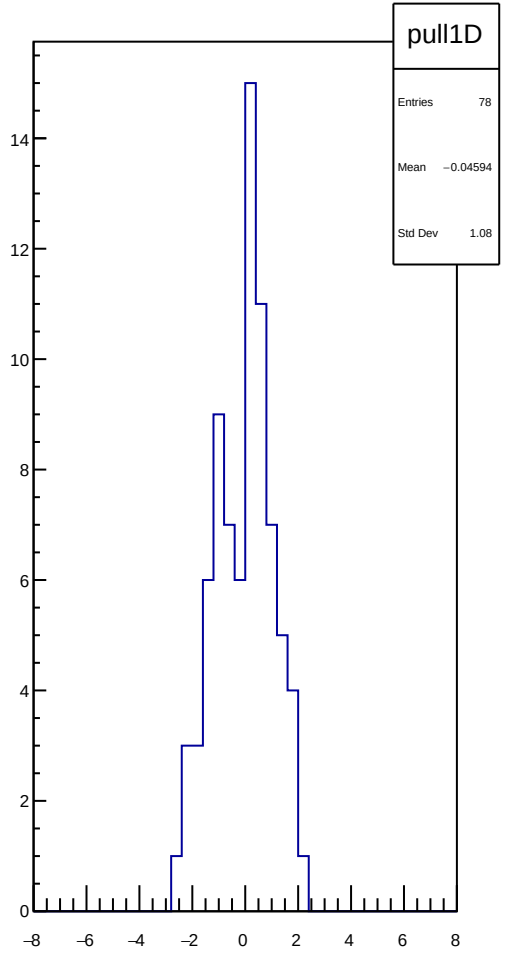

asym_us_dd_rms vs run
χ^2 / ndf 274.1 / 77
p0 2336 ± 1.878
2500
2450
2400
2350
2300
2250

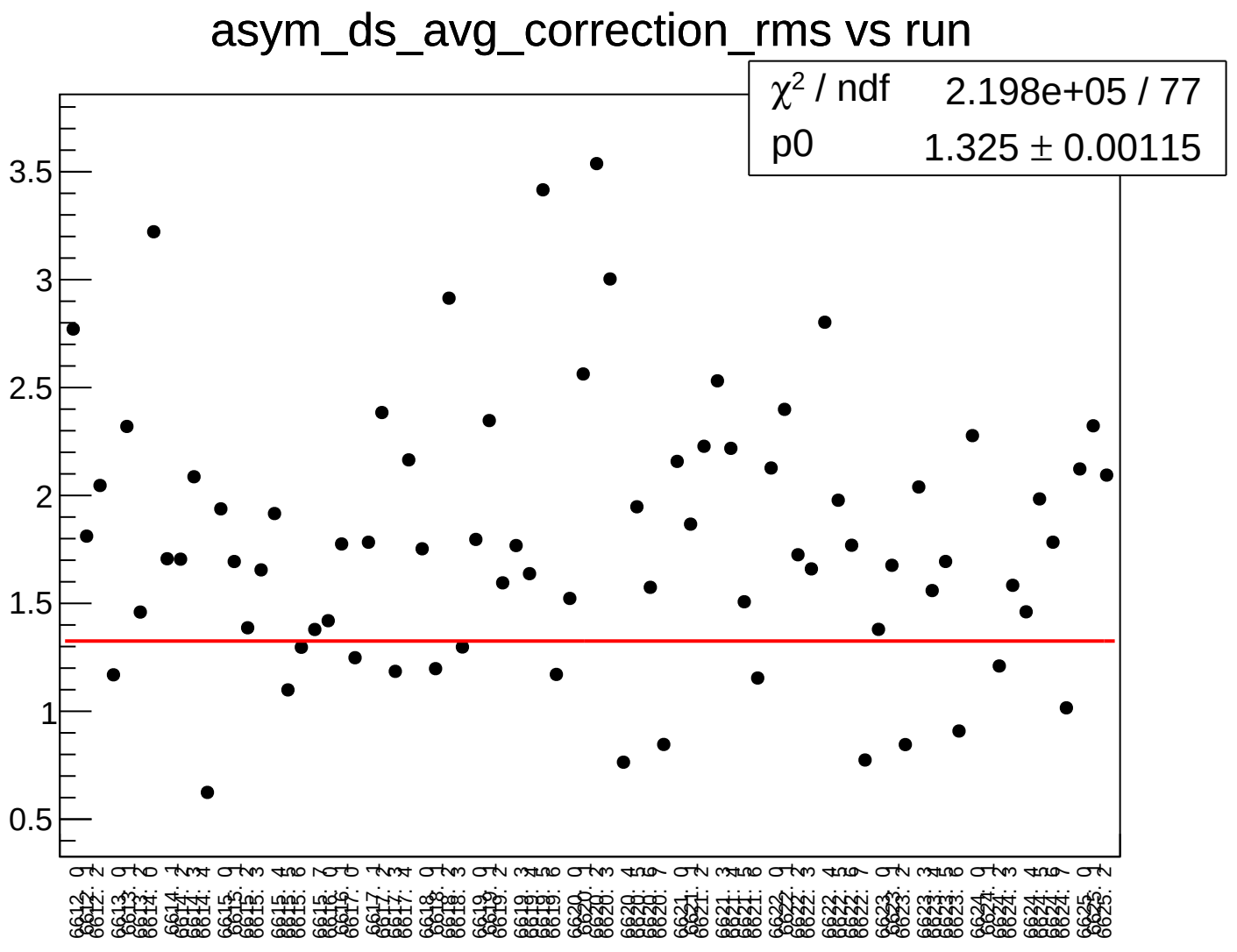

reg_asym_ds_avg_mean vs run
χ² / ndf 72.58 / 77
p0 21.79 ± 96.89
pull
Entries 78
Mean 178.2
Std Dev 138.7

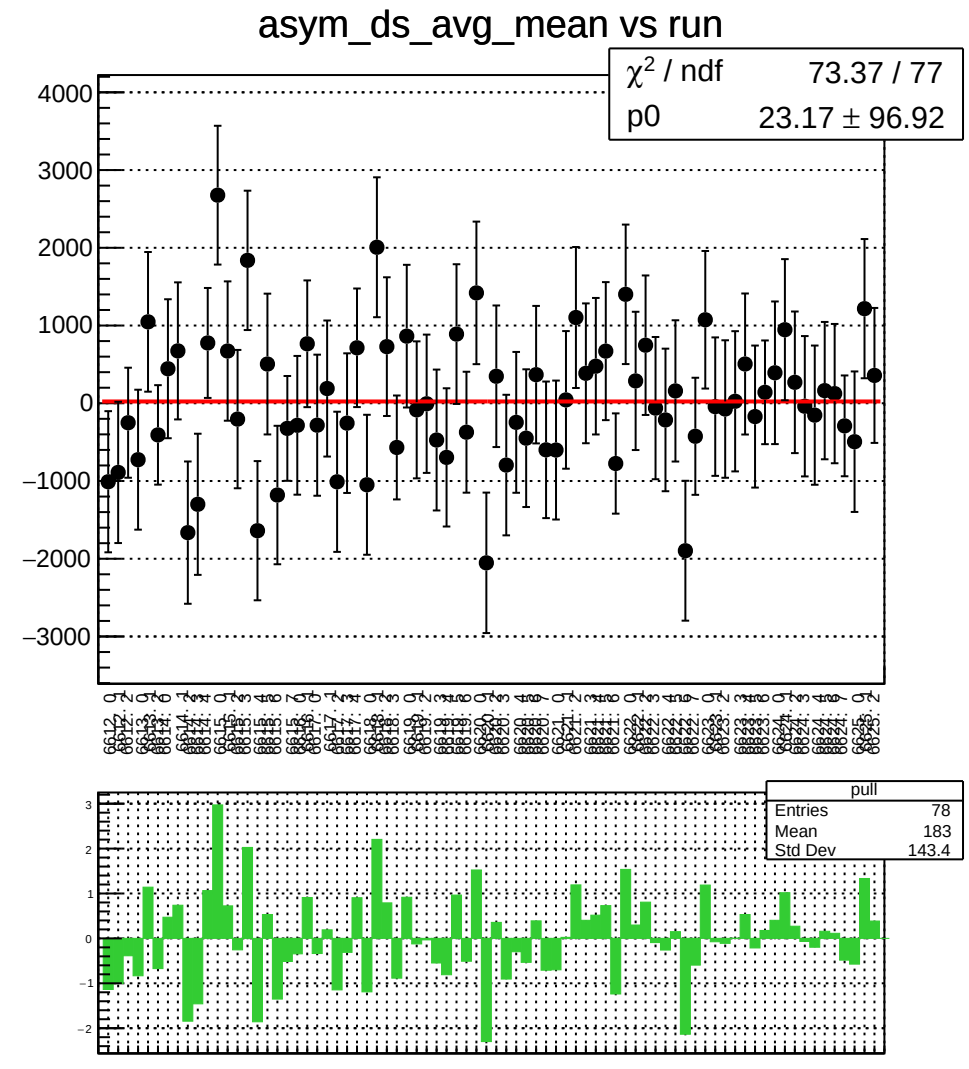

pull1D
Entries 78
Mean 0.0133
Std Dev 0.9645

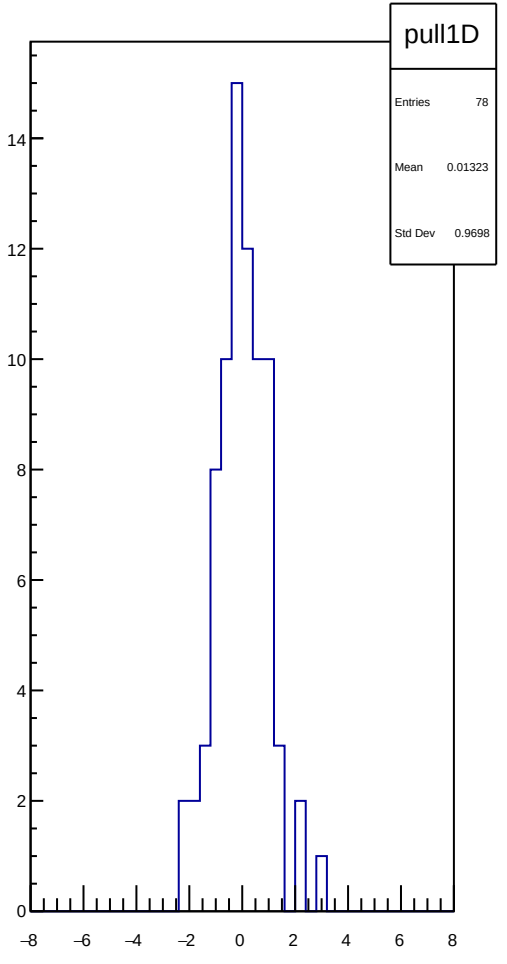

reg_asym_ds_avg_rms vs run
χ^2 / ndf 180.1 / 77
p0 85.23 ± 0.06851
88
87
86
85
84
83
82

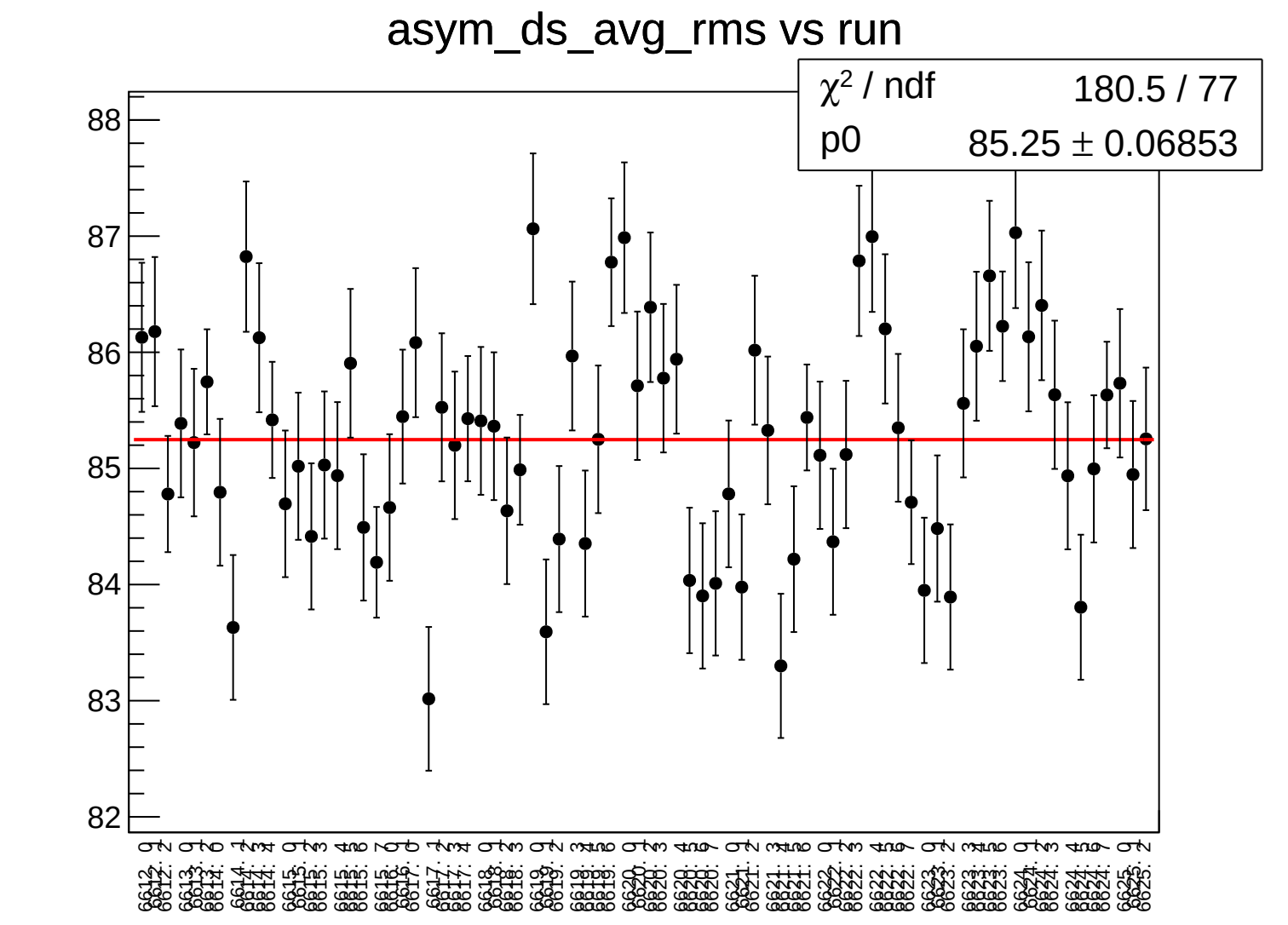

asym_ds_avg_correction_mean vs run
χ² / ndf 91.1 / 77
p0 0.2875 ± 1.627
pull
Entries 78
Mean 75.4
Std Dev 15.96

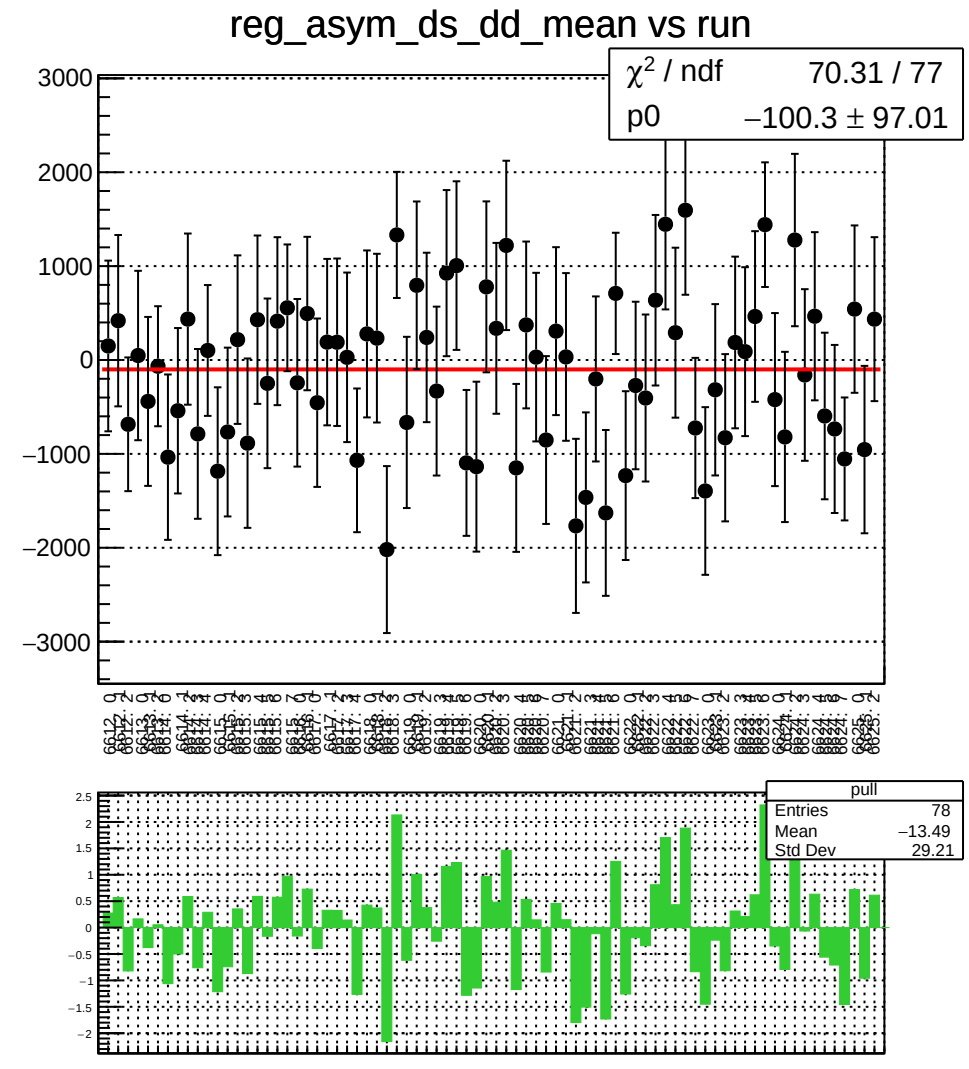

pull1D
Entries 78
Mean −0.04594
Std Dev 1.08

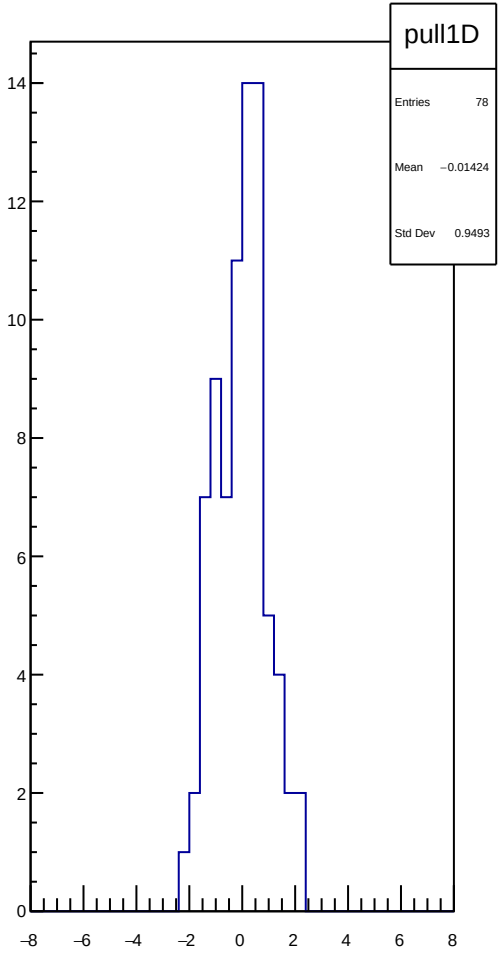

asym_ds_avg_correction_rms vs run
χ² / ndf 2.198e+05 / 77
p0 1.325 ± 0.00115
3.5
3
2.5
2
1.5
1
0.5

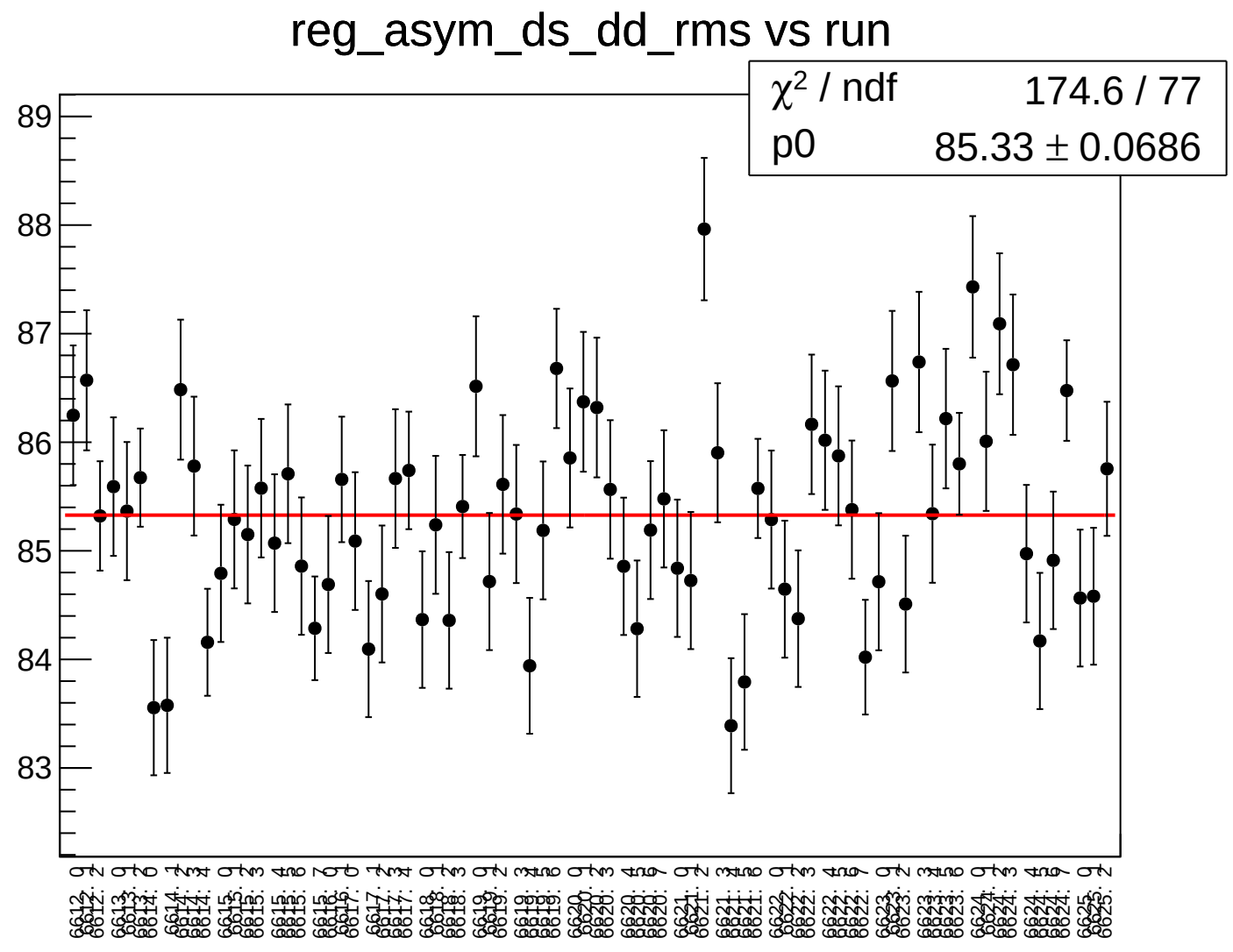

asym_ds_avg_mean vs run
χ² / ndf 73.37 / 77
p0 23.17 ± 96.92
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 78
Mean 183
Std Dev 143.4
3
2
1
0
−1
−2

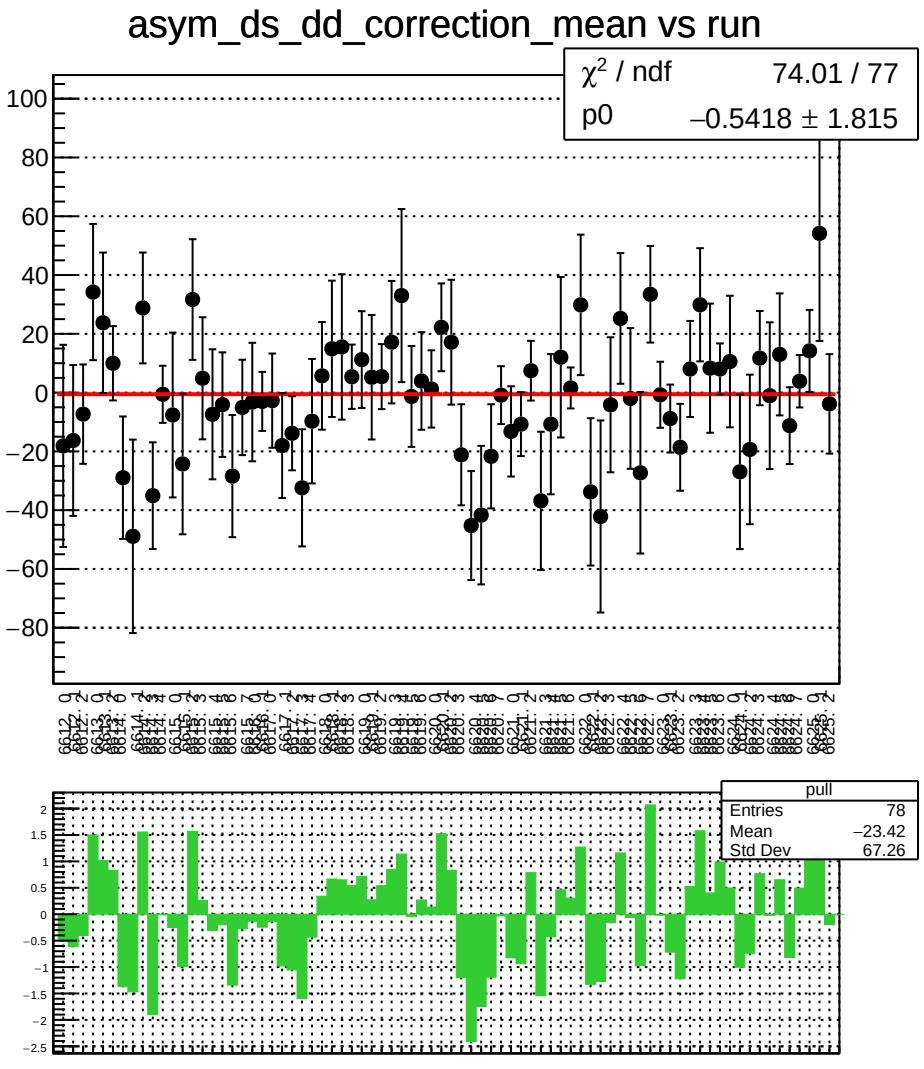

pull1D
Entries 78
Mean 0.01323
Std Dev 0.9698
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

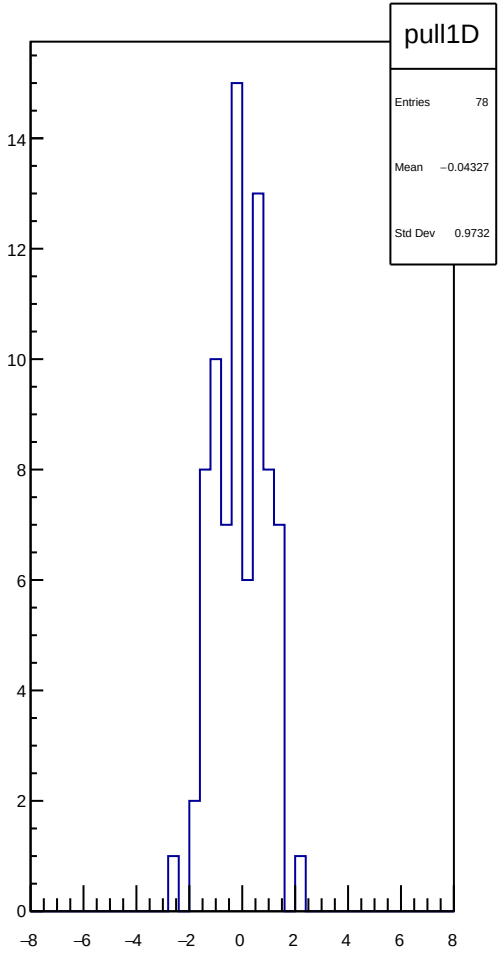

asym_ds_avg_rms vs run
χ² / ndf 180.5 / 77
p0 85.25 ± 0.06853
88
87
86
85
84
83
82

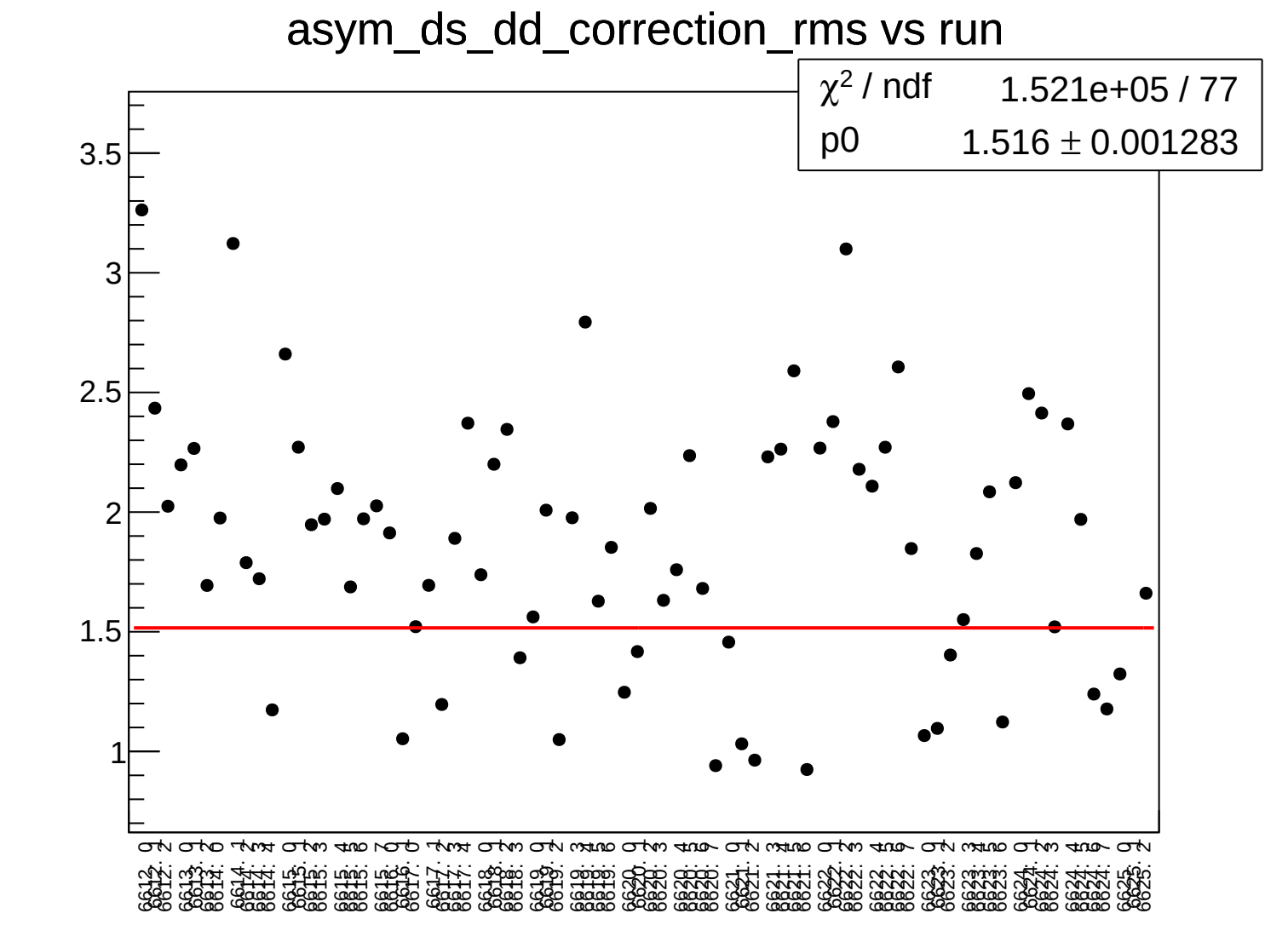

reg_asym_ds_dd_mean vs run
χ² / ndf 70.31 / 77
p0 −100.3 ± 97.01
pull
Entries 78
Mean −13.49
Std Dev 29.21

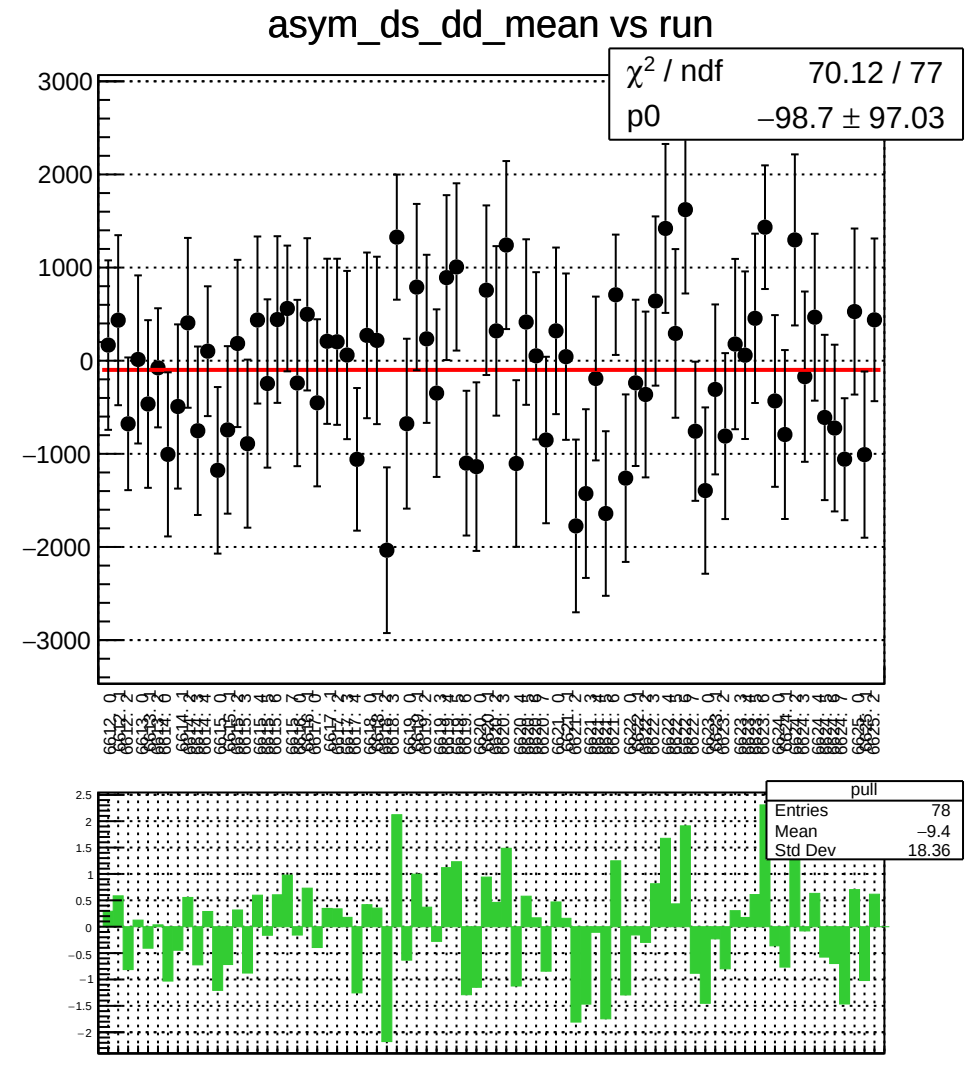

pull1D
Entries 78
Mean −0.01424
Std Dev 0.9493

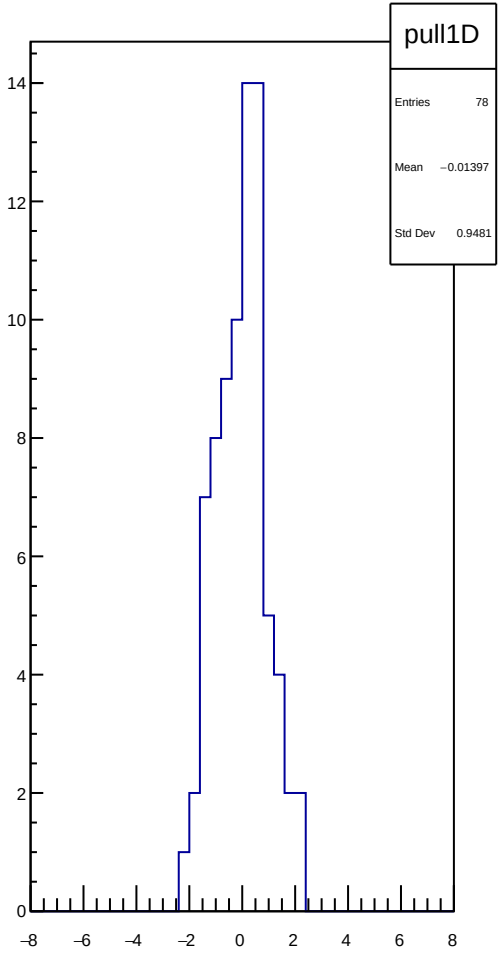

reg_asym_ds_dd_rms vs run
χ^2 / ndf 174.6 / 77
p0 85.33 ± 0.0686
89
88
87
86
85
84
83

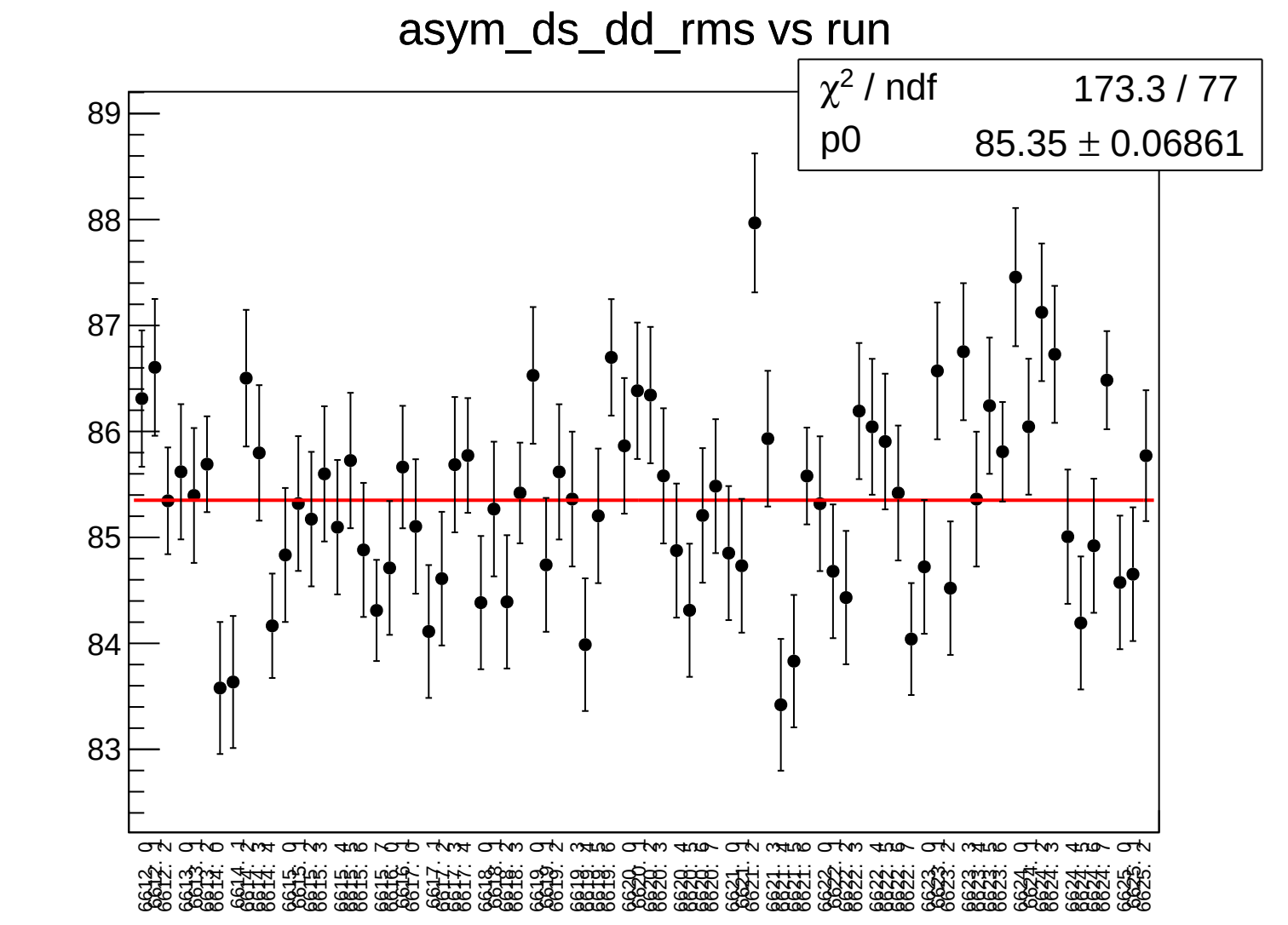

asym_ds_dd_correction_mean vs run
χ² / ndf 74.01 / 77
p0 −0.5418 ± 1.815
pull
Entries 78
Mean −23.42
Std Dev 67.26

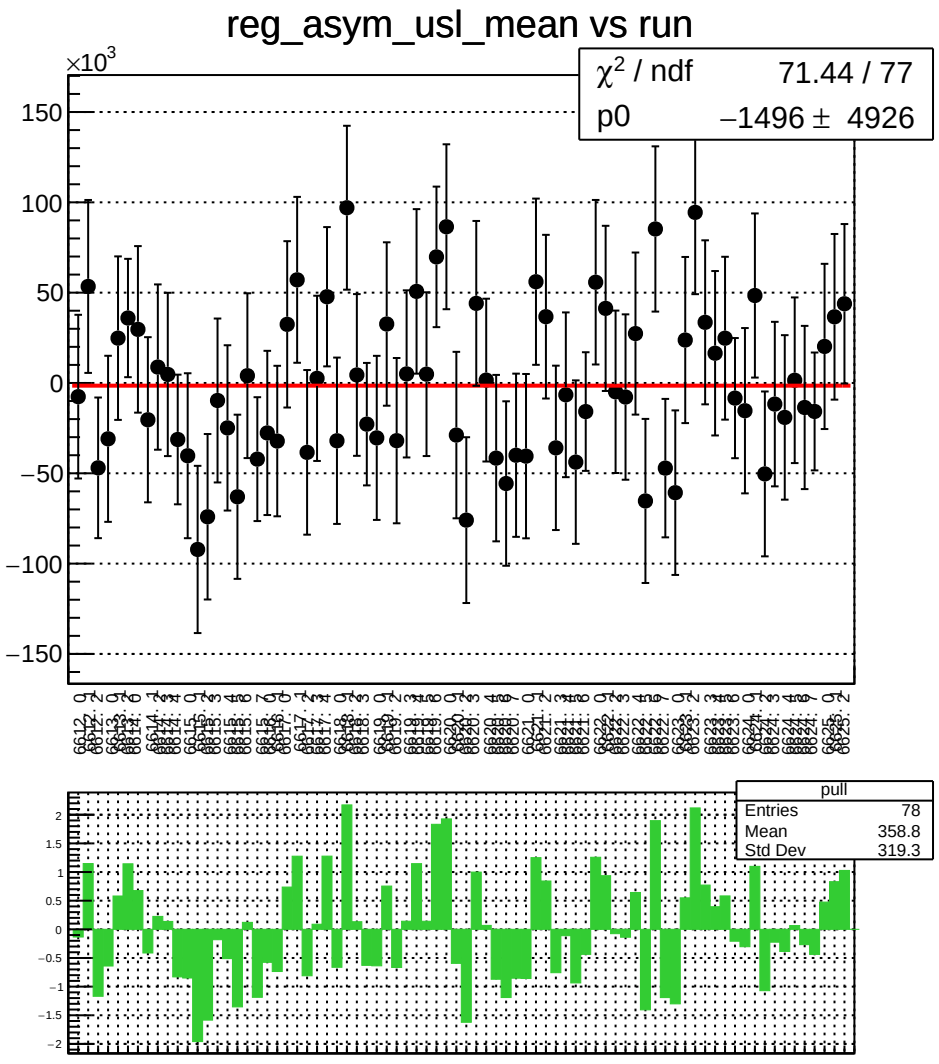

pull1D
Entries 78
Mean −0.04327
Std Dev 0.9732

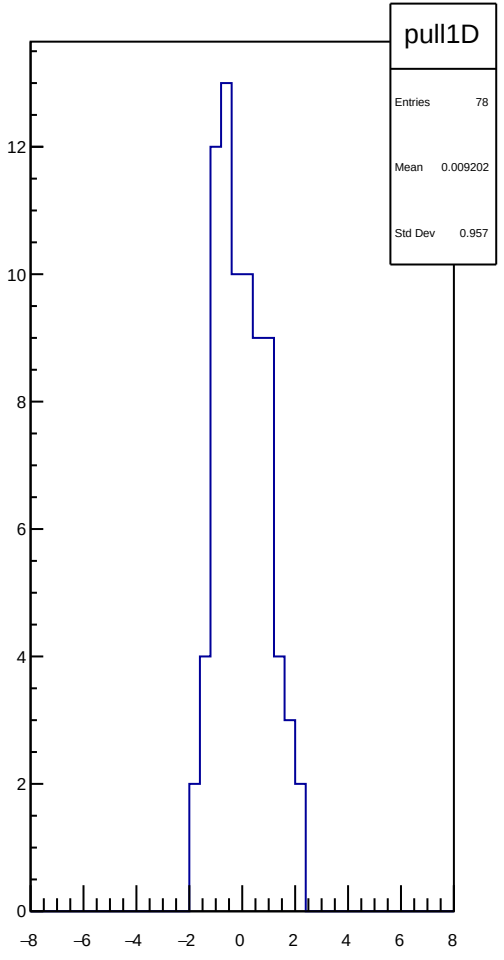

asym_ds_dd_correction_rms vs run
χ^2 / ndf 1.521e+05 / 77
p0 1.516 ± 0.001283
3.5
3
2.5
2
1.5
1

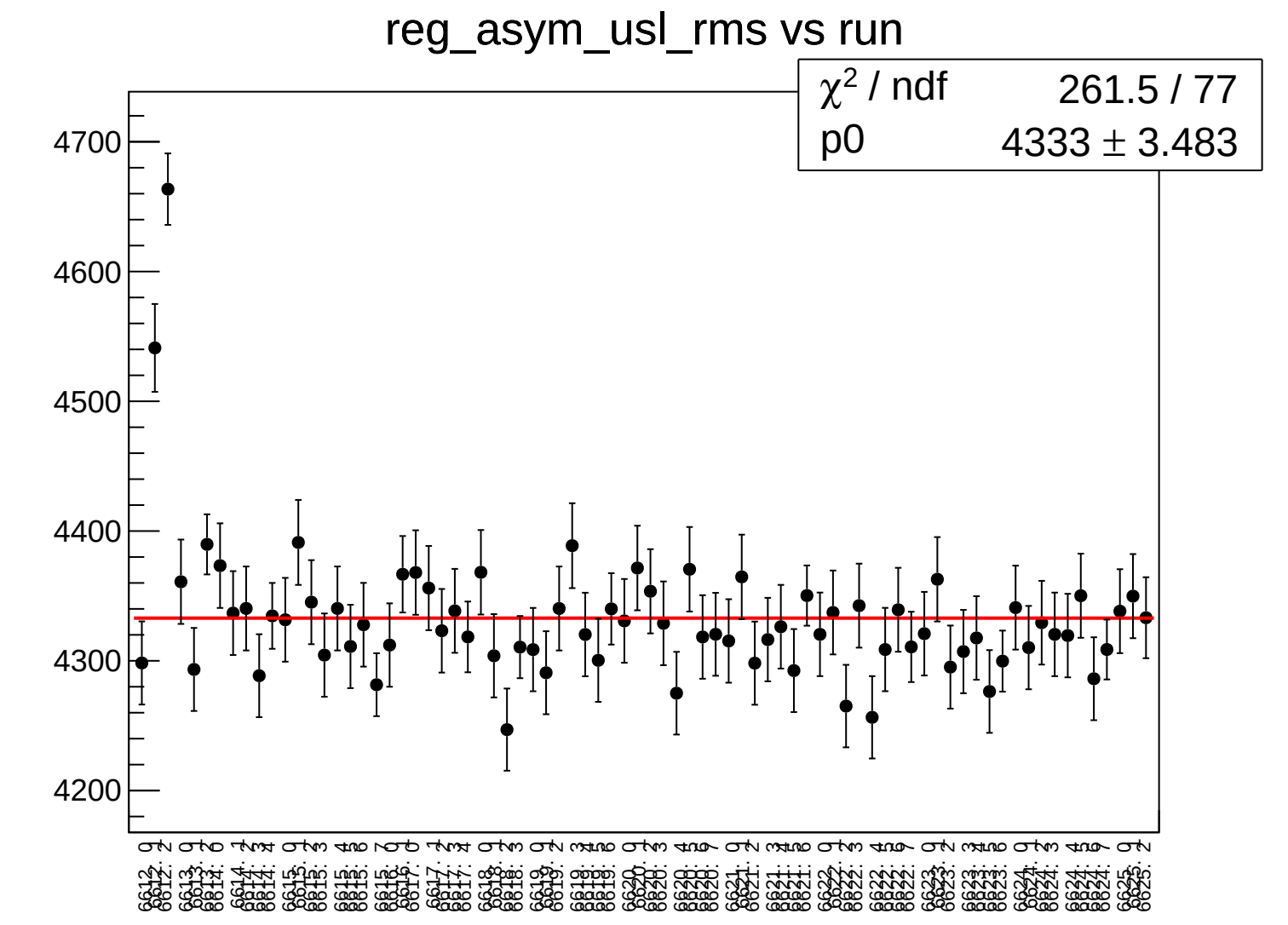

asym_ds_dd_mean vs run
χ² / ndf 70.12 / 77
p0 −98.7 ± 97.03
pull
Entries 78
Mean −9.4
Std Dev 18.36

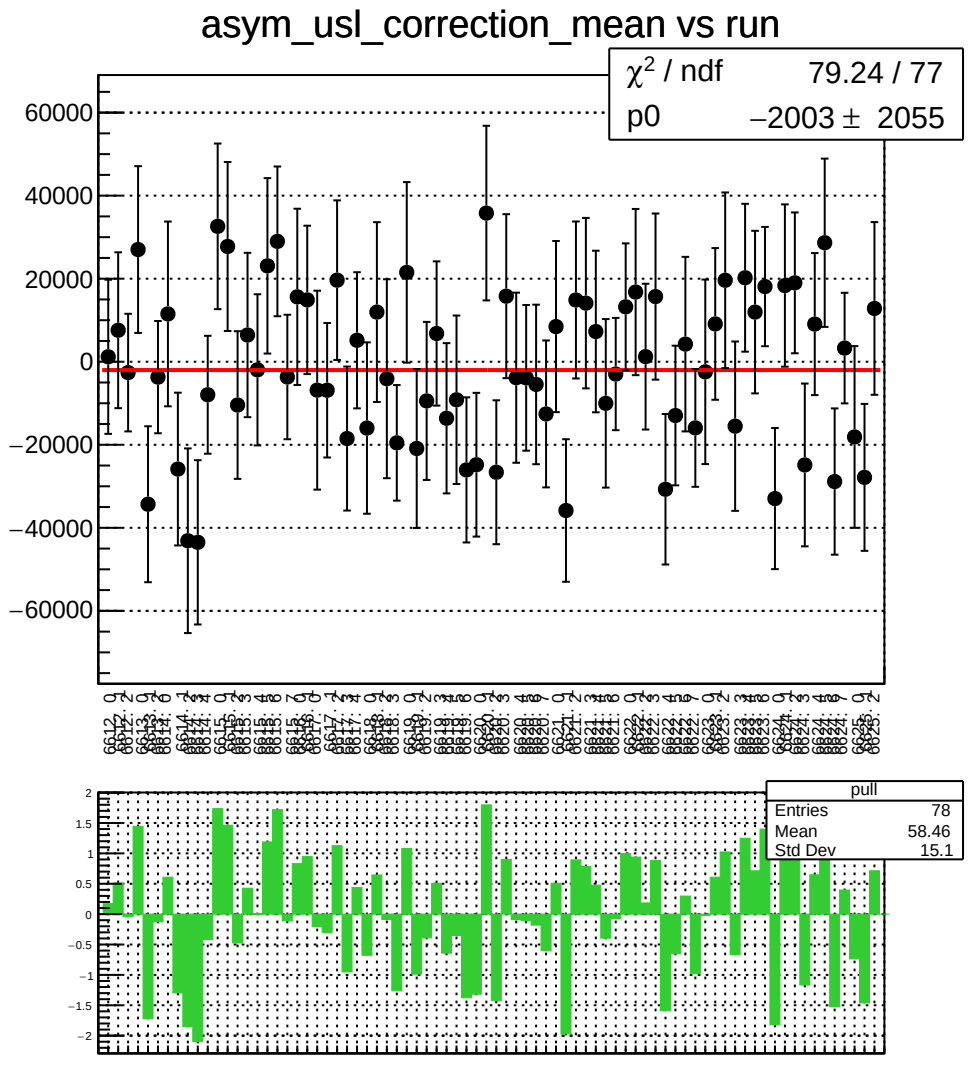

pull1D
Entries 78
Mean −0.01397
Std Dev 0.9481

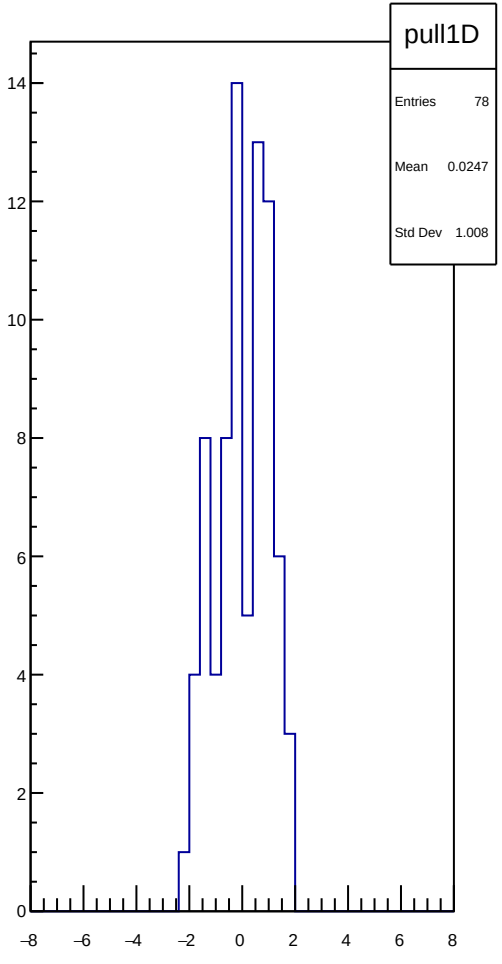

asym_ds_dd_rms vs run
χ^2 / ndf 173.3 / 77
p0 85.35 ± 0.06861
89
88
87
86
85
84
83

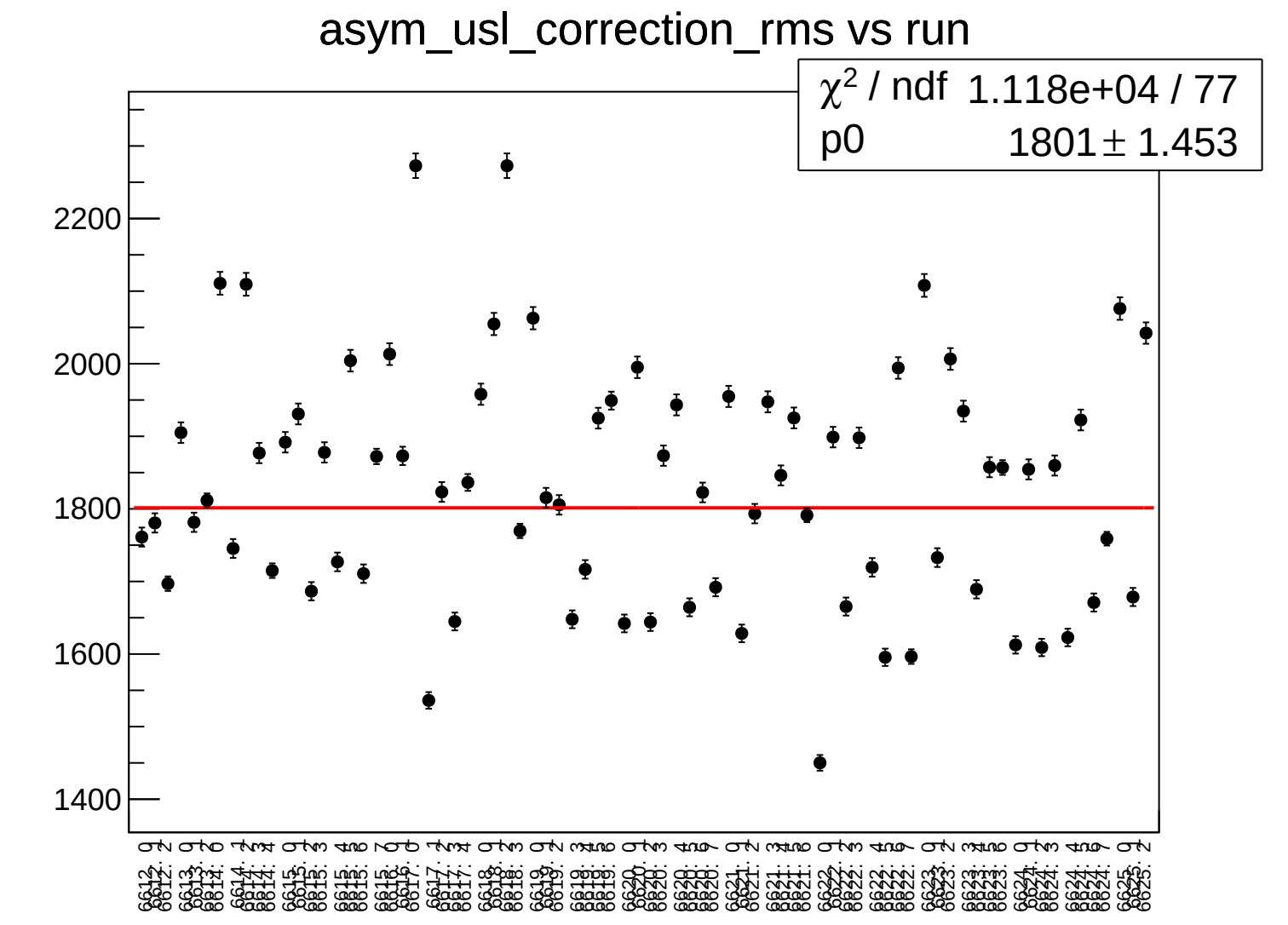

reg_asym_usl_mean vs run
×10^3
χ² / ndf 71.44 / 77
p0 −1496 ± 4926
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 358.8
Std Dev 319.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

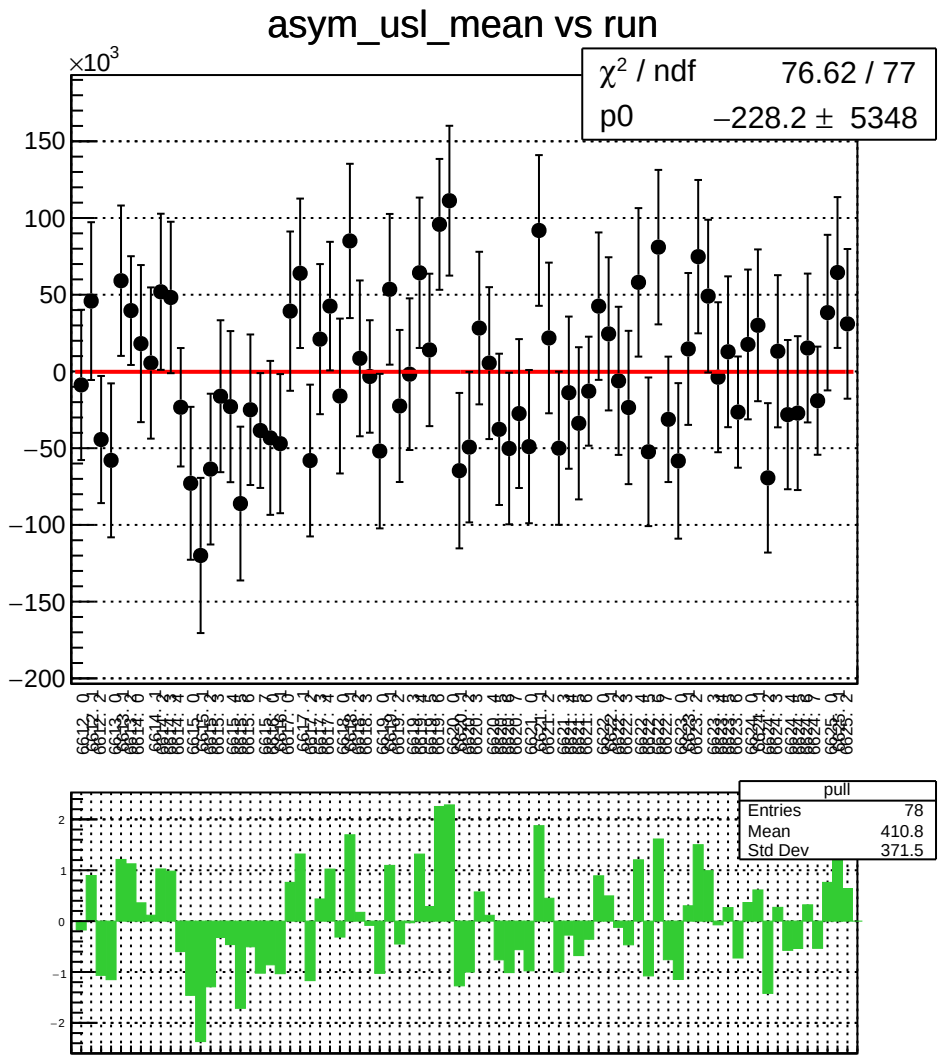

pull1D
Entries 78
Mean 0.009202
Std Dev 0.957
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

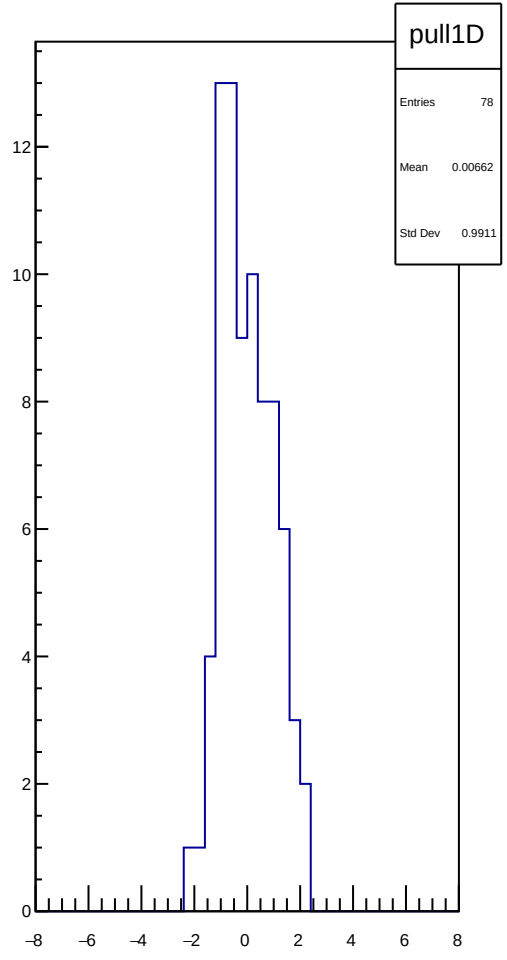

reg_asym_usl_rms vs run
χ² / ndf 261.5 / 77
p0 4333 ± 3.483
4700
4600
4500
4400
4300
4200

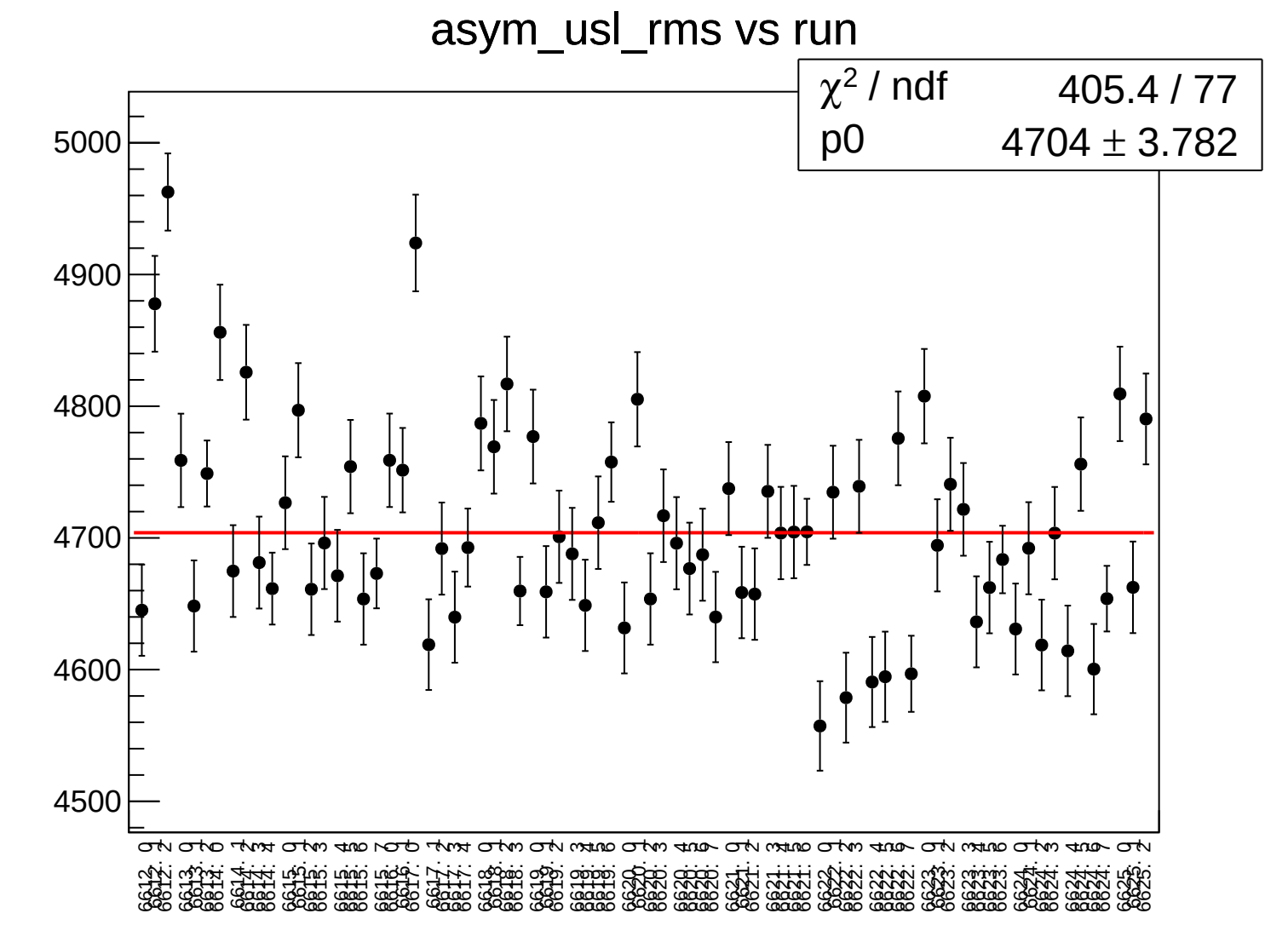

asym_usl_correction_mean vs run
χ² / ndf 79.24 / 77
p0 −2003 ± 2055
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 58.46
Std Dev 15.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

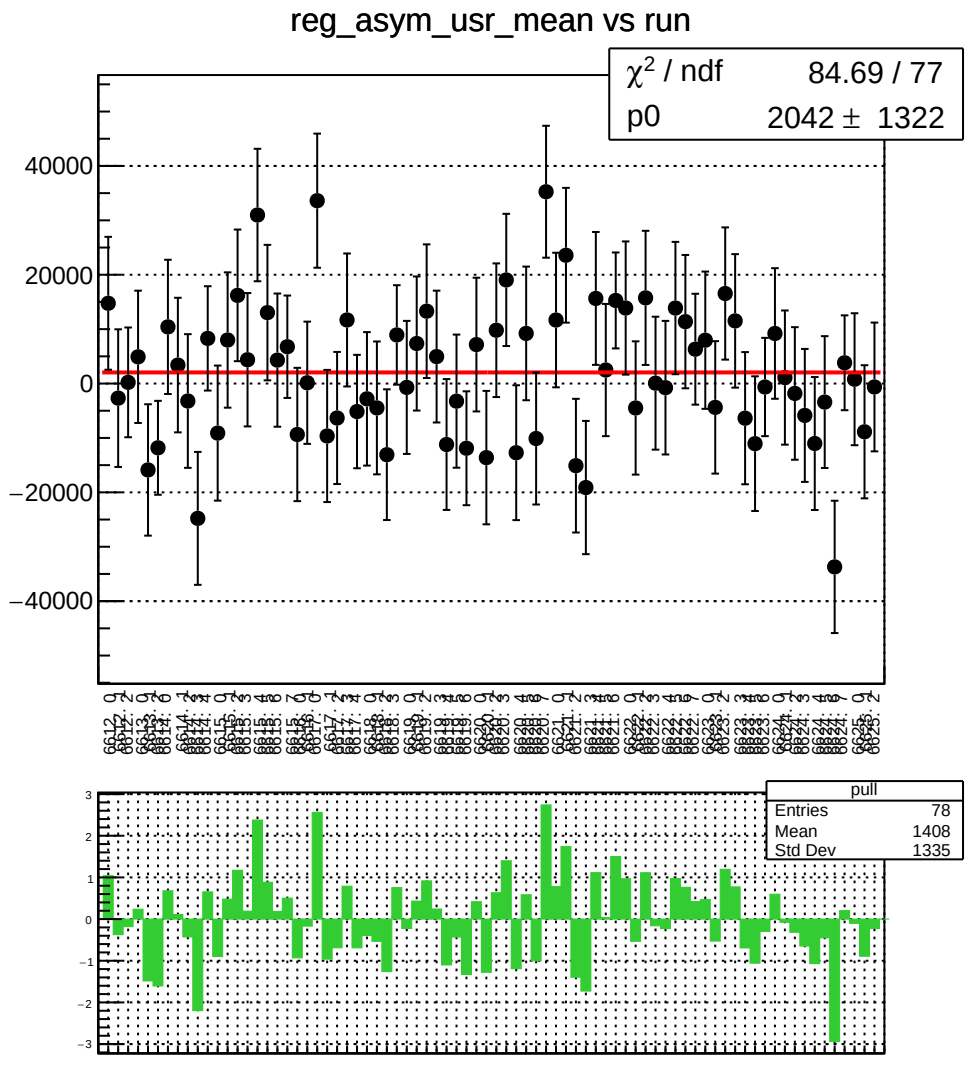

pull1D
Entries 78
Mean 0.0247
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

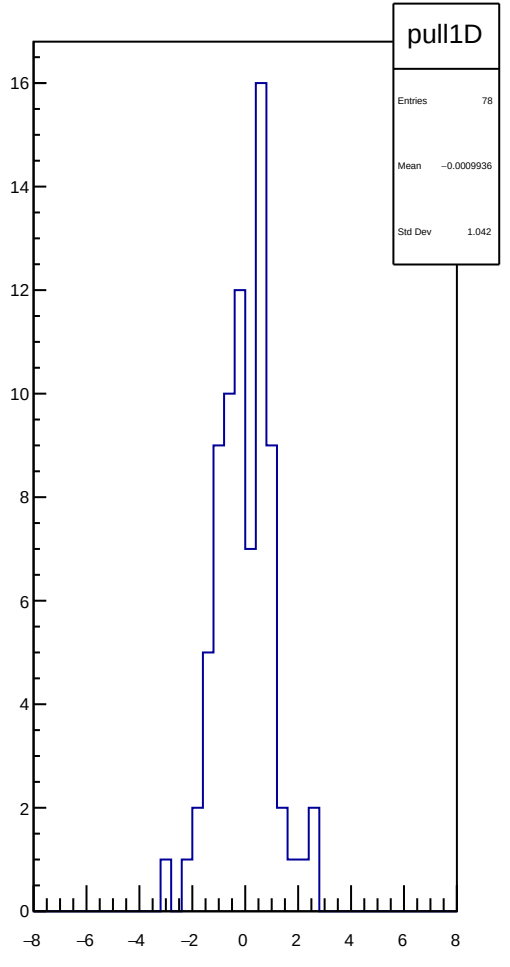

asym_usl_correction_rms vs run
χ² / ndf 1.118e+04 / 77
p0 1801 ± 1.453
2200
2000
1800
1600
1400

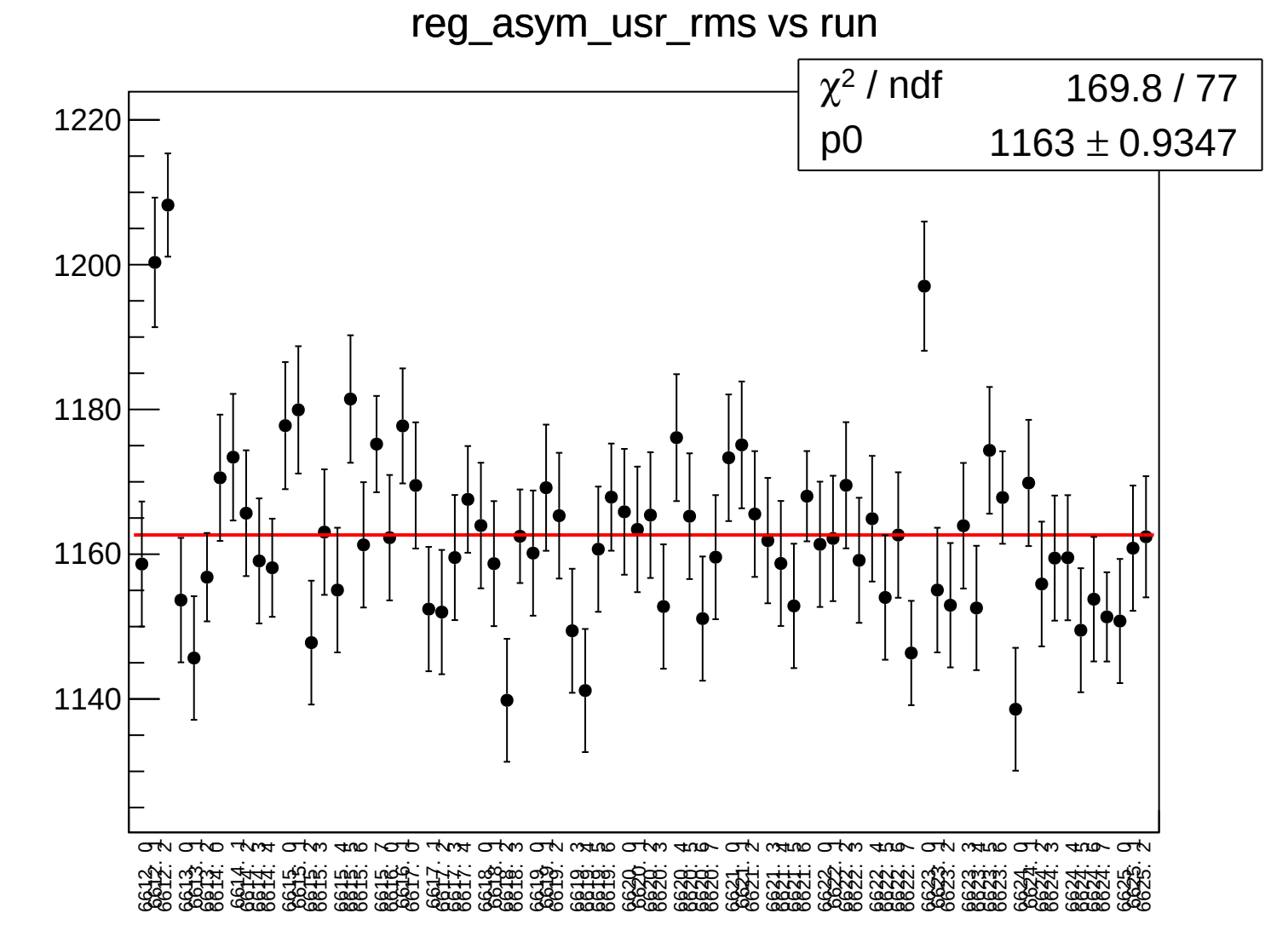

asym_usl_mean vs run
×10^3
χ² / ndf 76.62 / 77
p0 −228.2 ± 5348
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 410.8
Std Dev 371.5
2
1
0
−1
−2

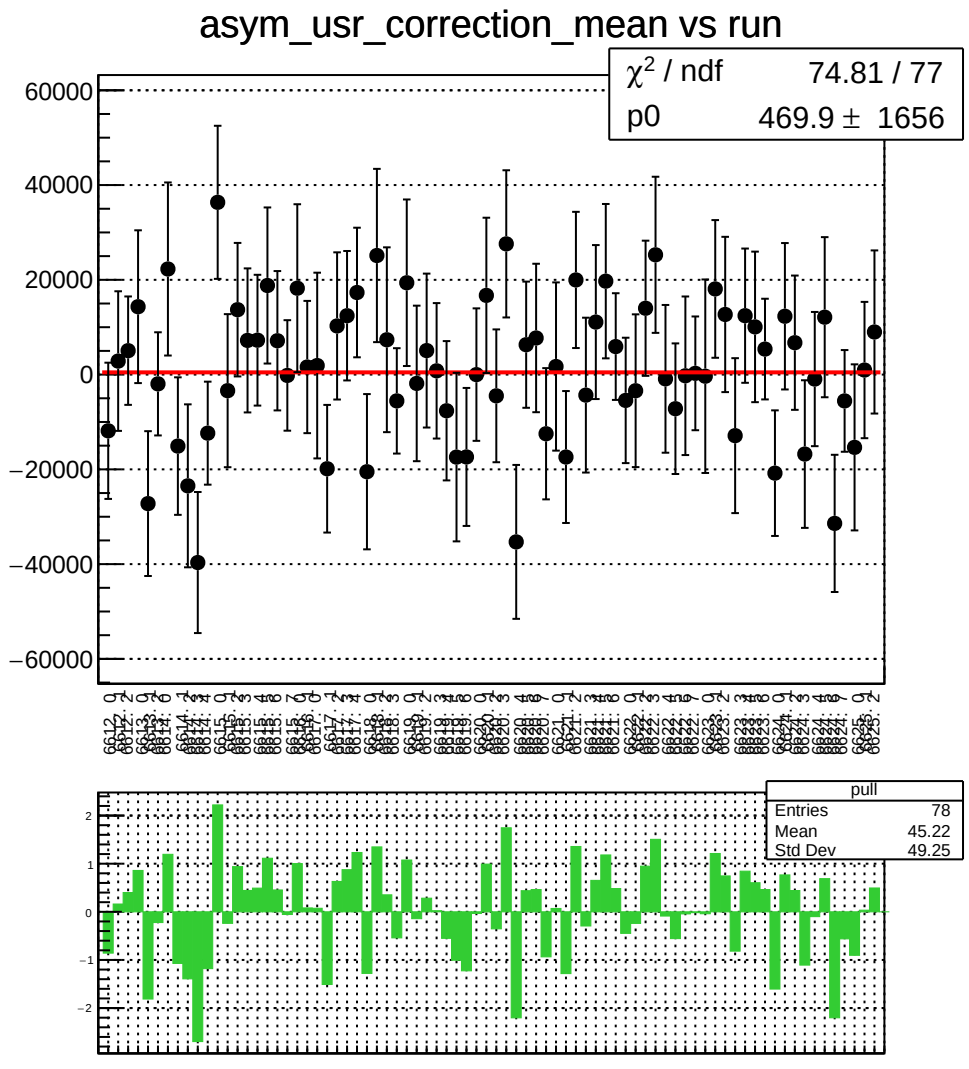

pull1D
Entries 78
Mean 0.00662
Std Dev 0.9911
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

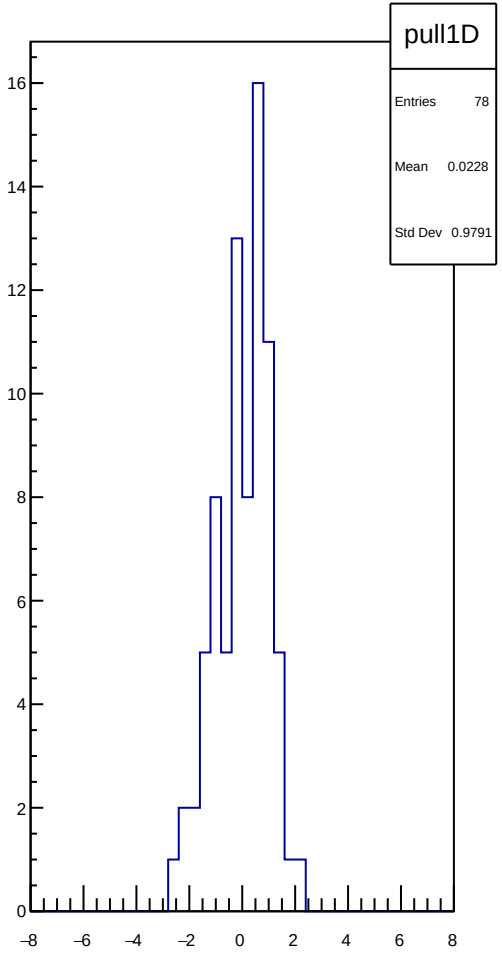

asym_usl_rms vs run
χ² / ndf 405.4 / 77
p0 4704 ± 3.782
5000
4900
4800
4700
4600
4500

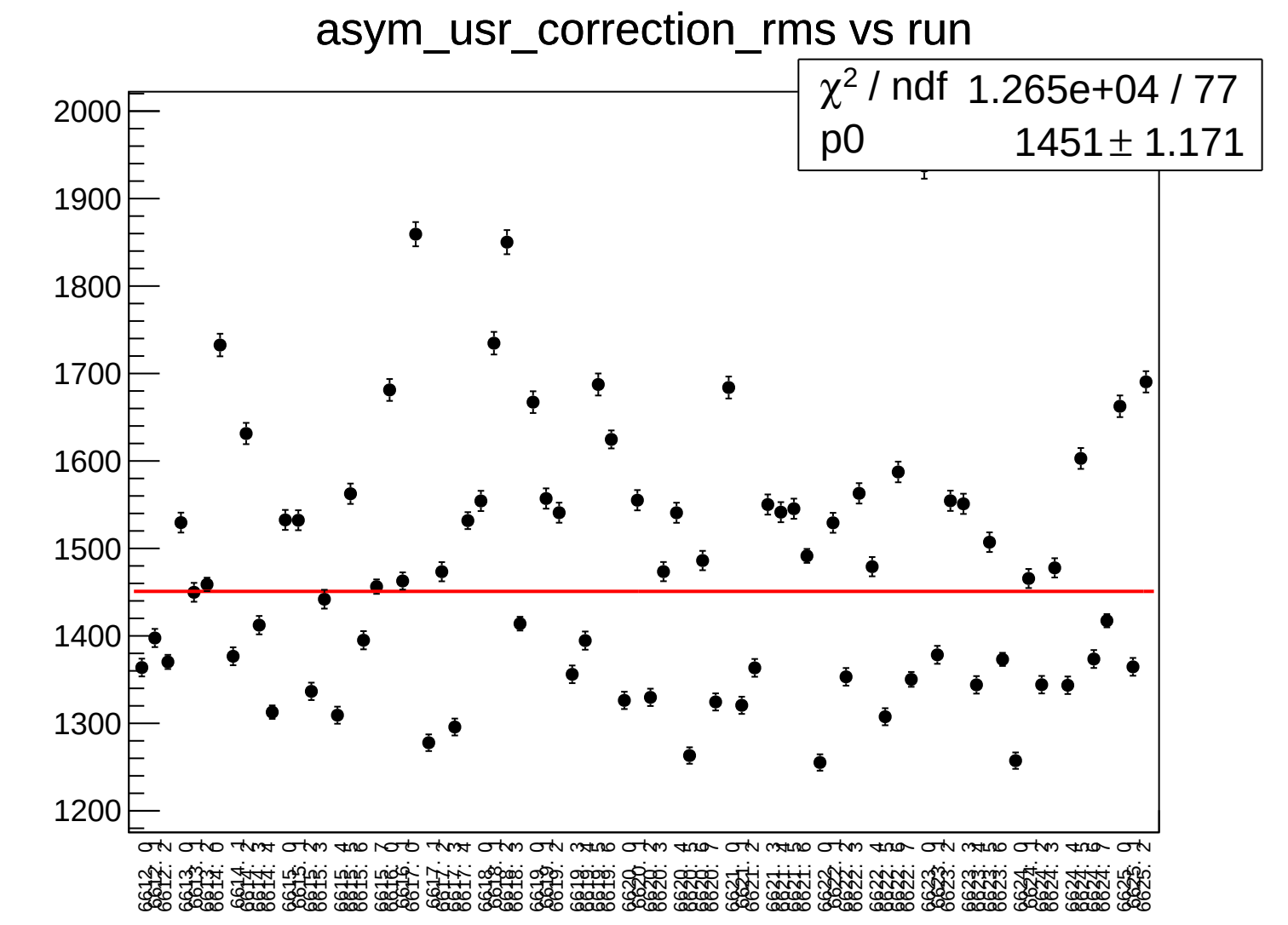

reg_asym_usr_mean vs run
χ² / ndf 84.69 / 77
p0 2042 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 1408
Std Dev 1335
3
2
1
0
−1
−2
−3

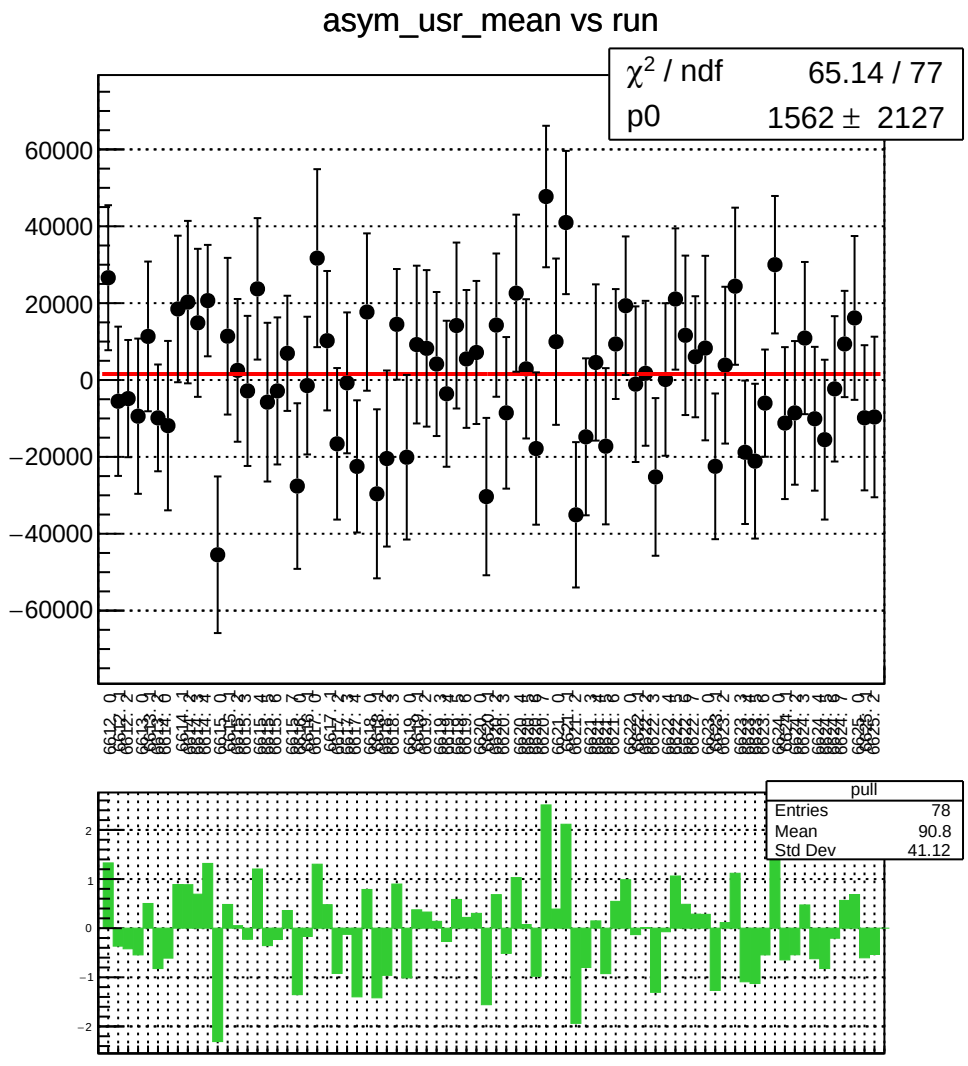

pull1D
Entries 78
Mean −0.0009936
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

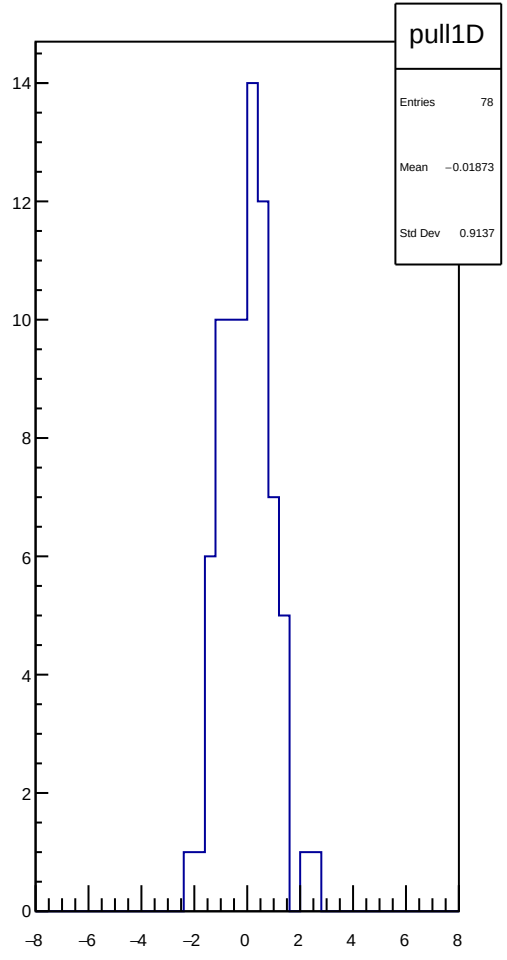

reg_asym_usr_rms vs run
χ² / ndf 169.8 / 77
p0 1163 ± 0.9347
1220
1200
1180
1160
1140

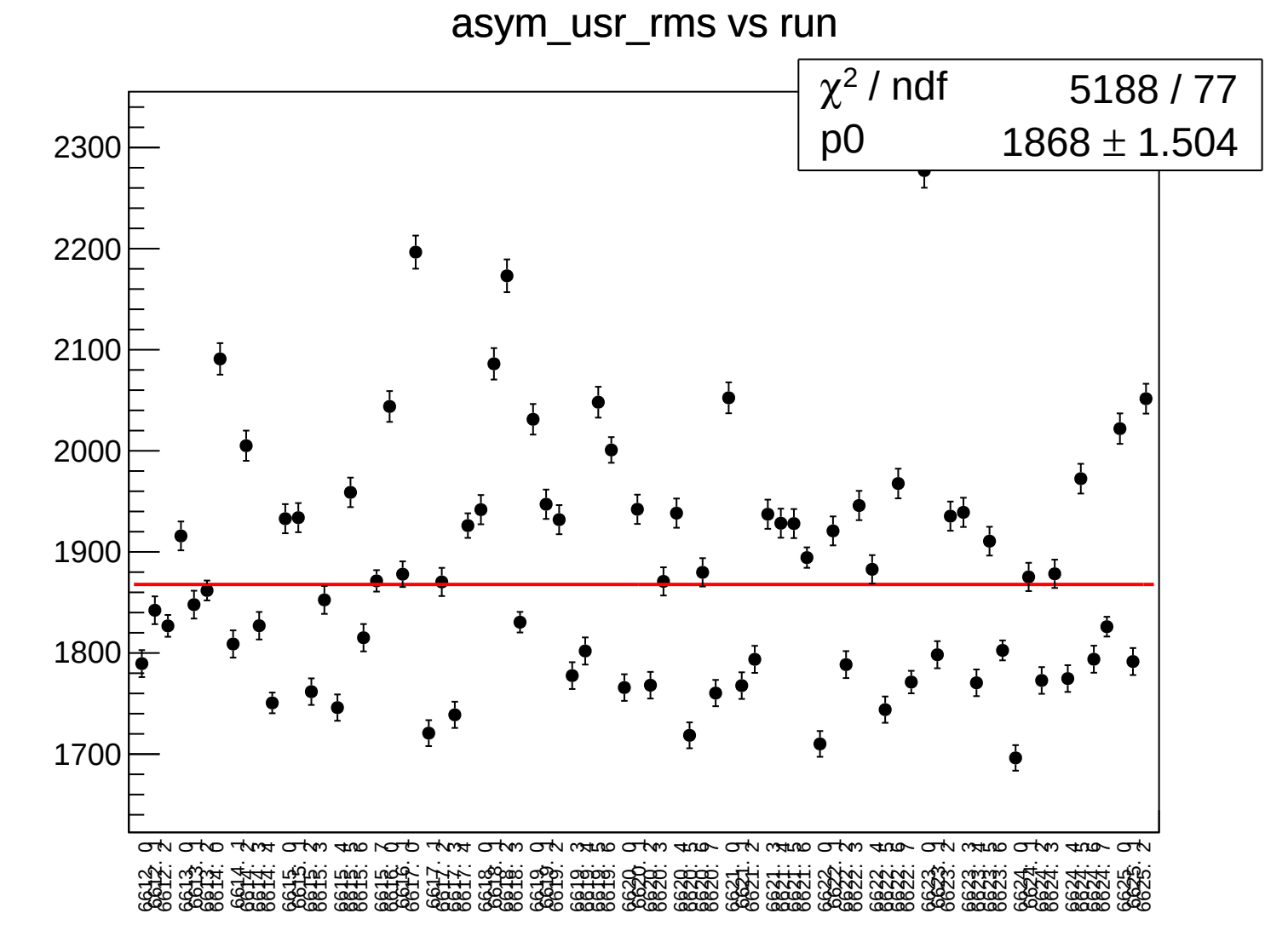

asym_usr_correction_mean vs run
χ² / ndf 74.81 / 77
p0 469.9 ± 1656
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 45.22
Std Dev 49.25
2
1
0
−1
−2

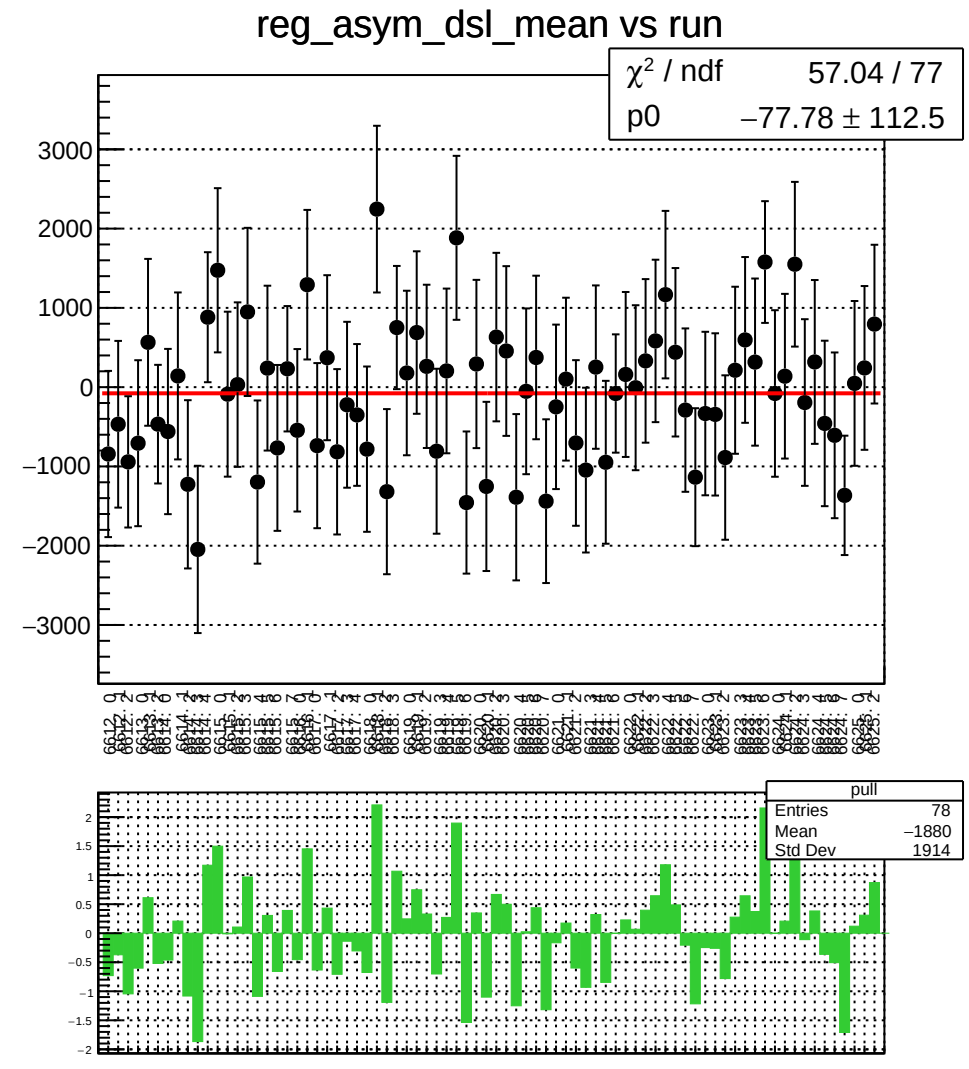

pull1D
Entries 78
Mean 0.0228
Std Dev 0.9791
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

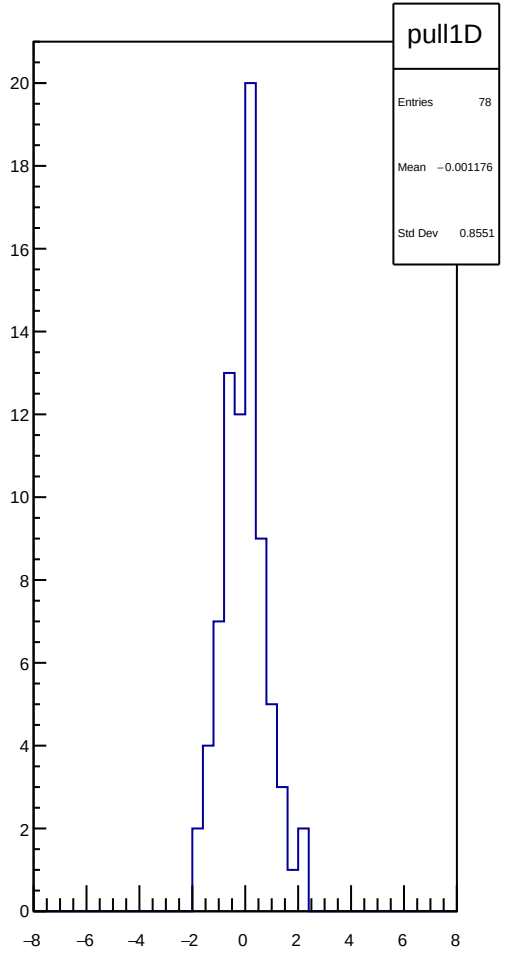

asym_usr_correction_rms vs run
χ² / ndf 1.265e+04 / 77
p0 1451 ± 1.171
2000
1900
1800
1700
1600
1500
1400
1300
1200

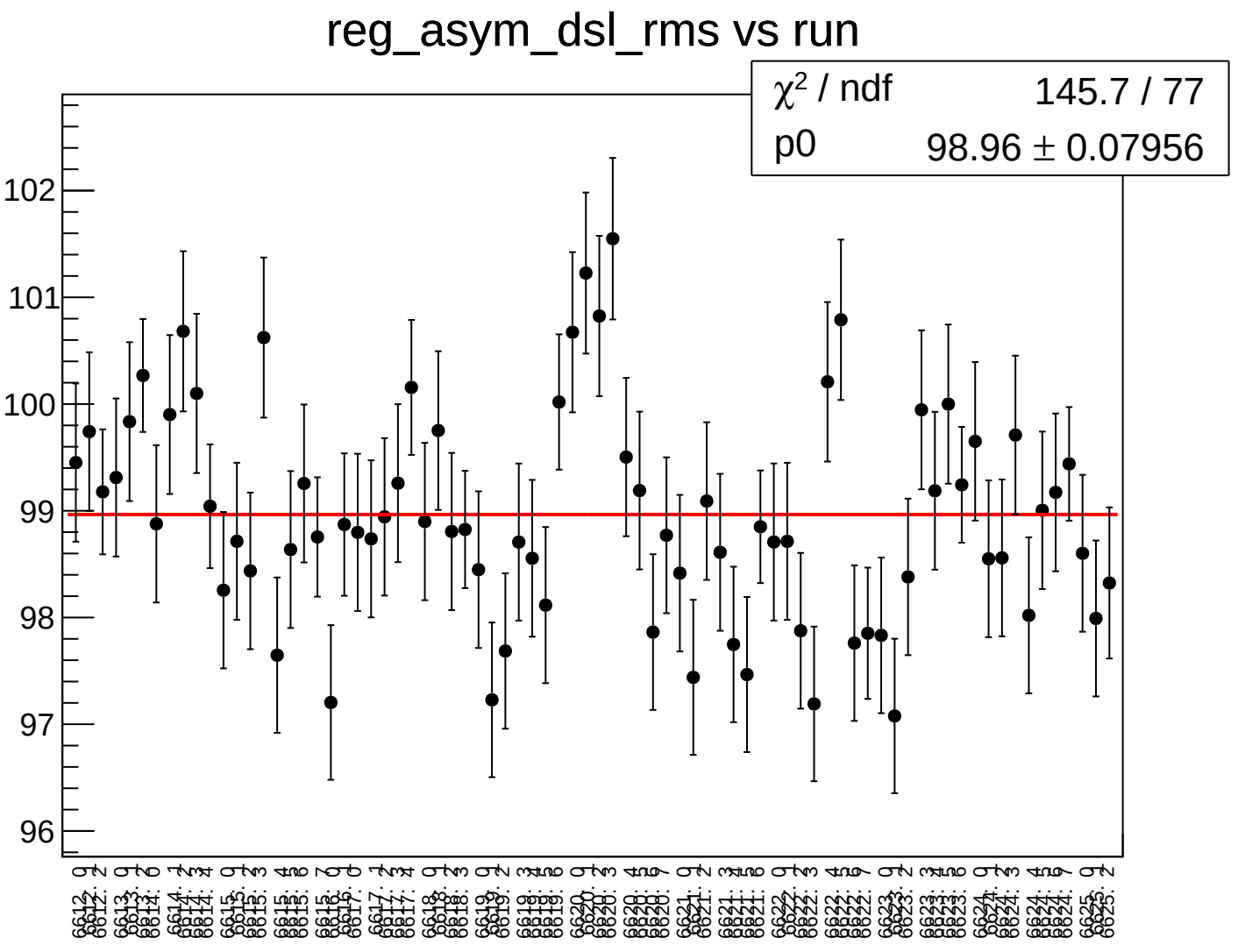

asym_usr_mean vs run
χ² / ndf 65.14 / 77
p0 1562 ± 2127
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 90.8
Std Dev 41.12
2
1
0
−1
−2

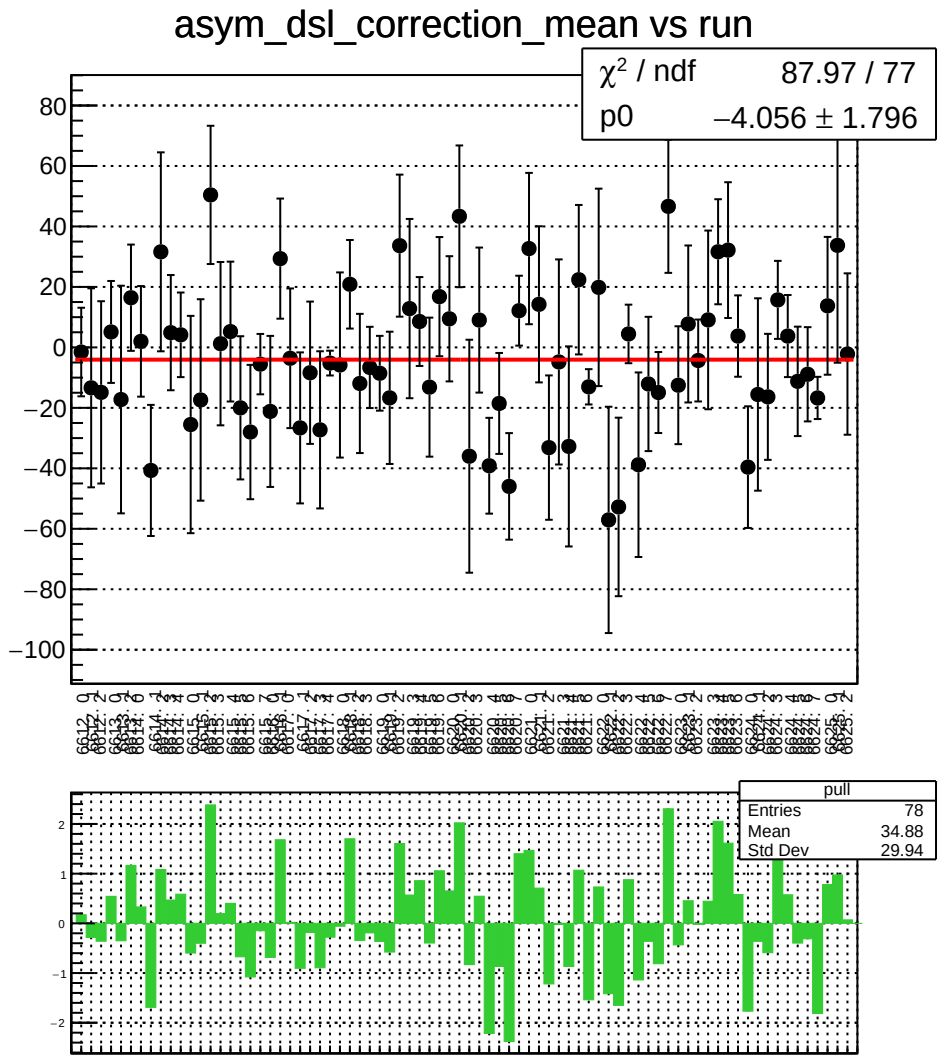

pull1D
Entries 78
Mean −0.01873
Std Dev 0.9137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

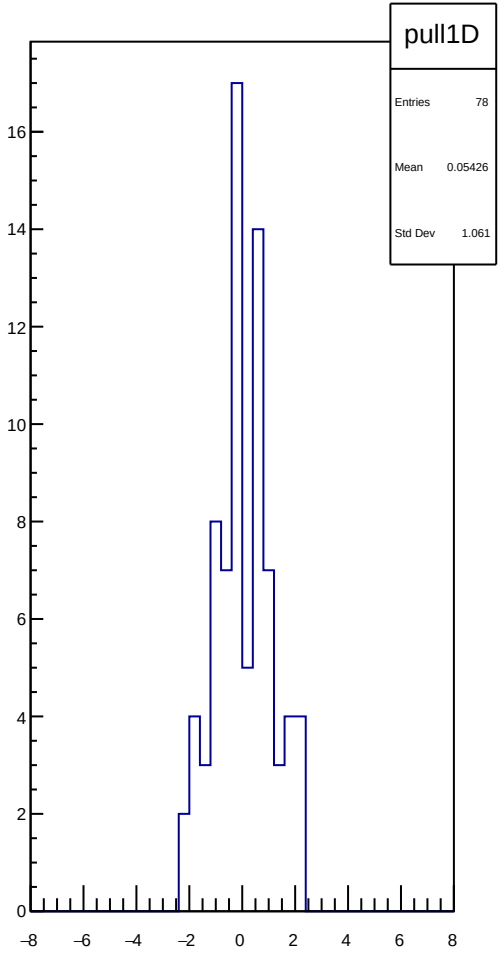

asym_usr_rms vs run
χ² / ndf 5188 / 77
p0 1868 ± 1.504
2300
2200
2100
2000
1900
1800
1700

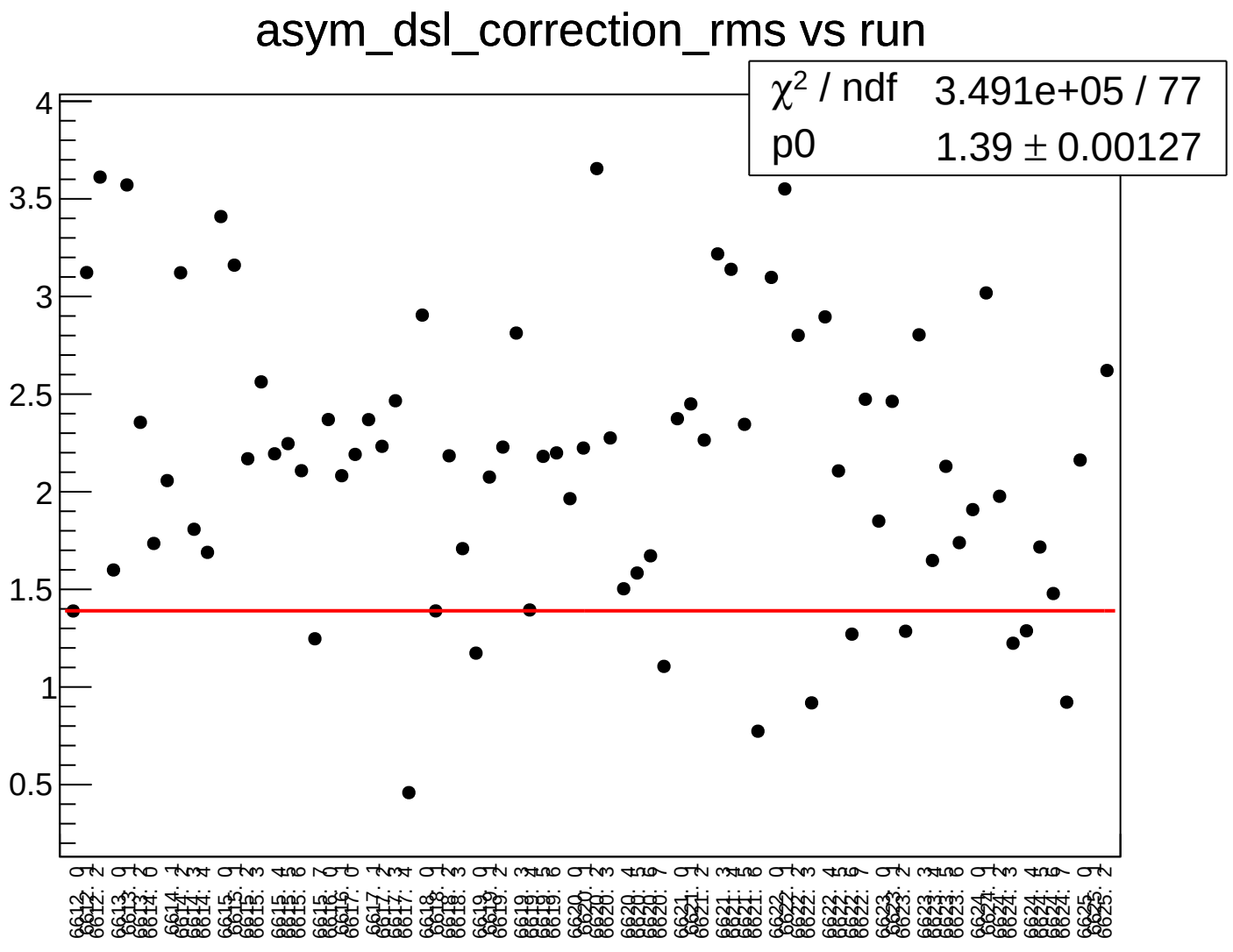

reg_asym_dsl_mean vs run
χ² / ndf 57.04 / 77
p0 −77.78 ± 112.5
pull
Entries 78
Mean −1880
Std Dev 1914

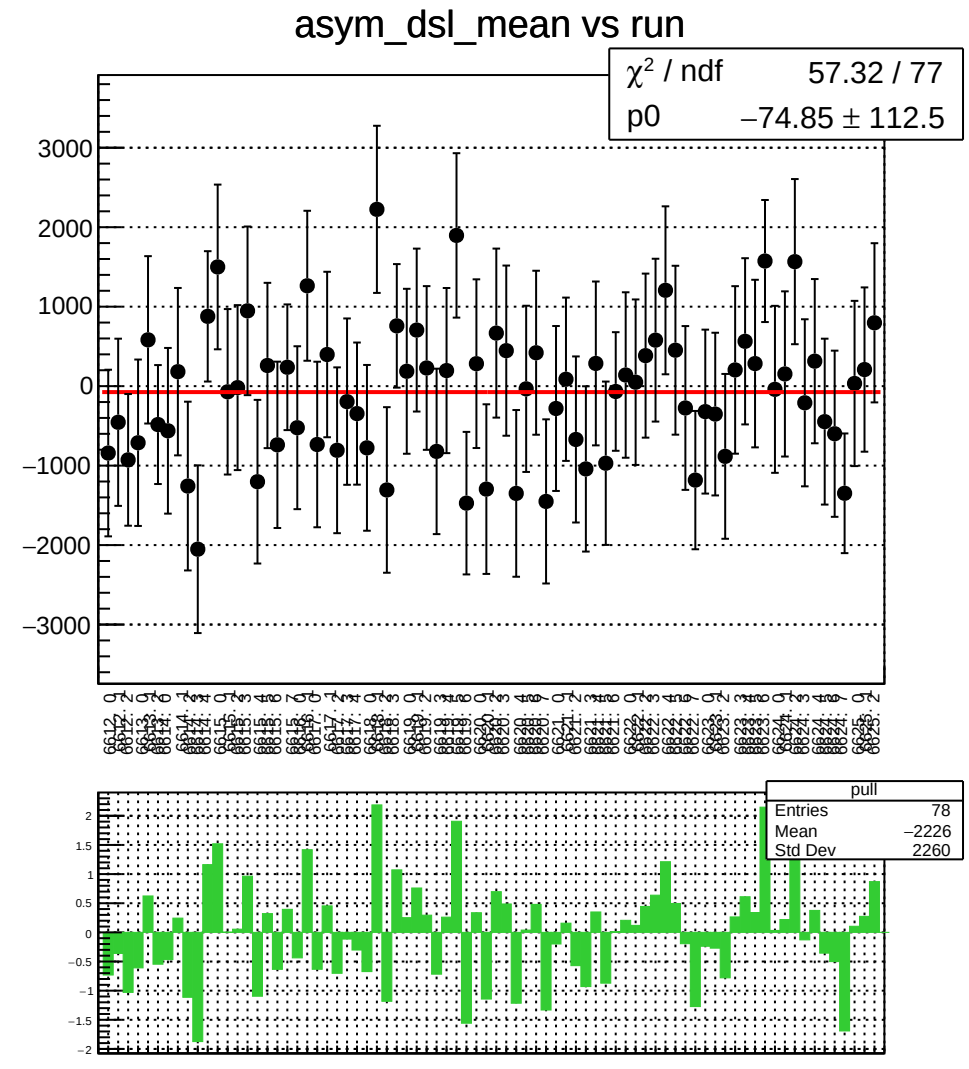

pull1D
Entries 78
Mean −0.001176
Std Dev 0.8551

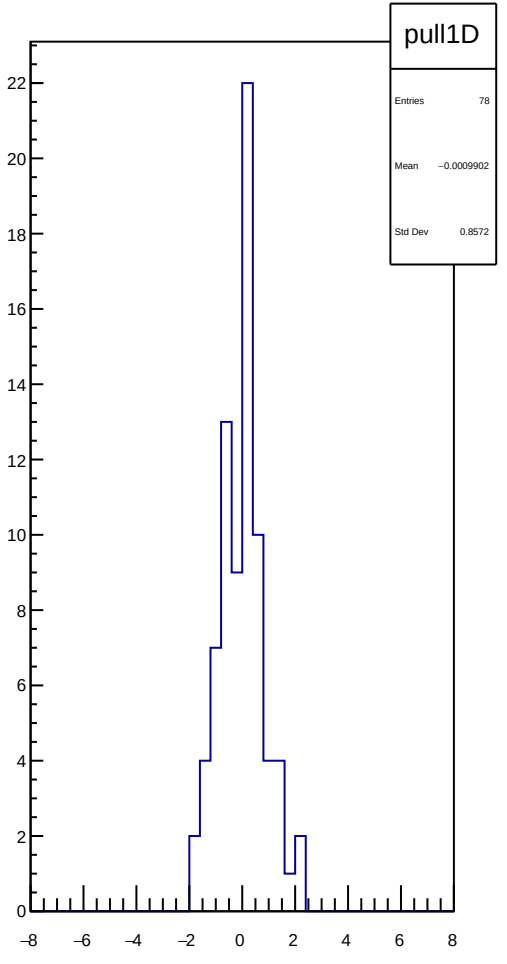

reg_asym_dsl_rms vs run
χ² / ndf 145.7 / 77
p0 98.96 ± 0.07956
102
101
100
99
98
97
96

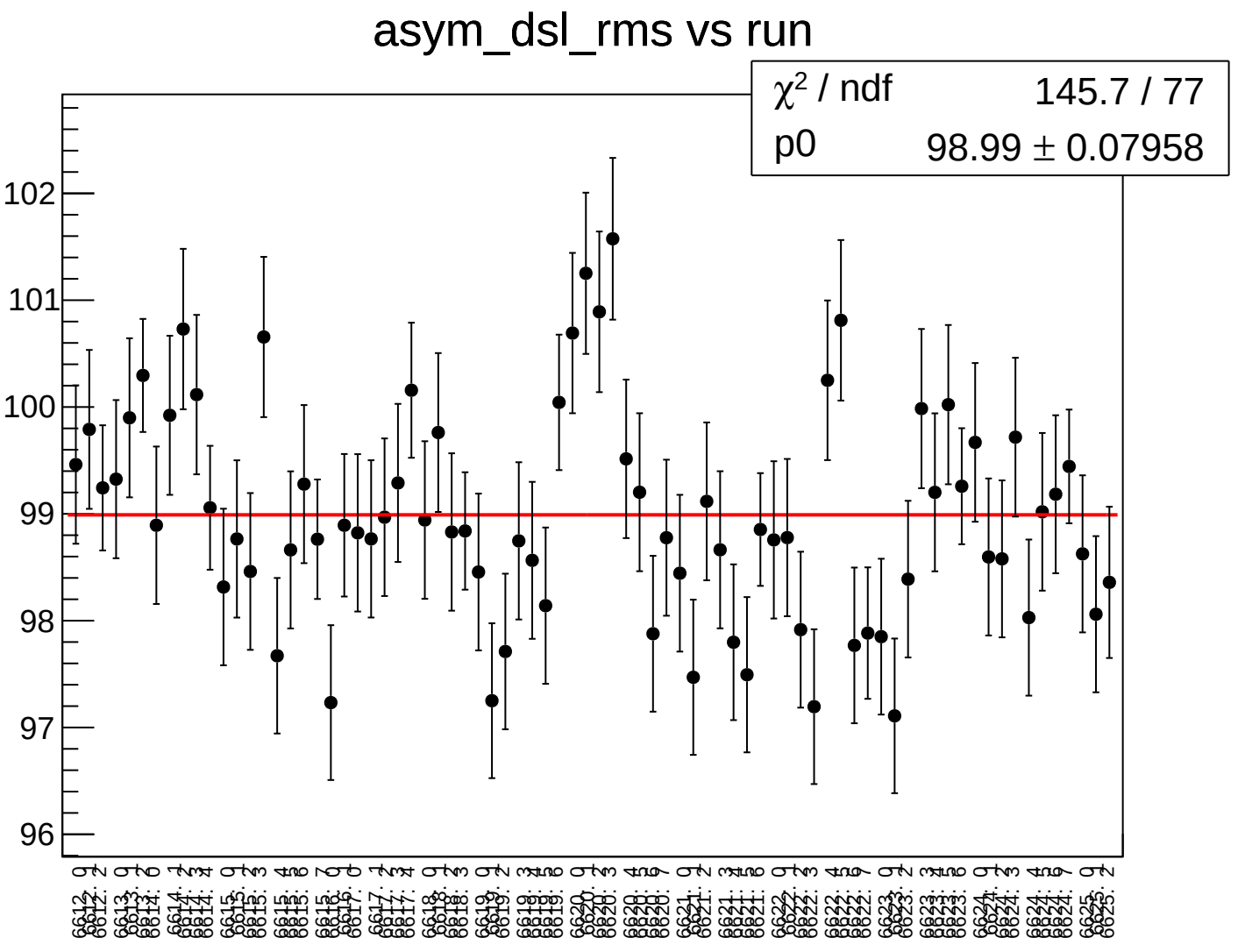

asym_dsl_correction_mean vs run
χ² / ndf 87.97 / 77
p0 −4.056 ± 1.796
pull
Entries 78
Mean 34.88
Std Dev 29.94

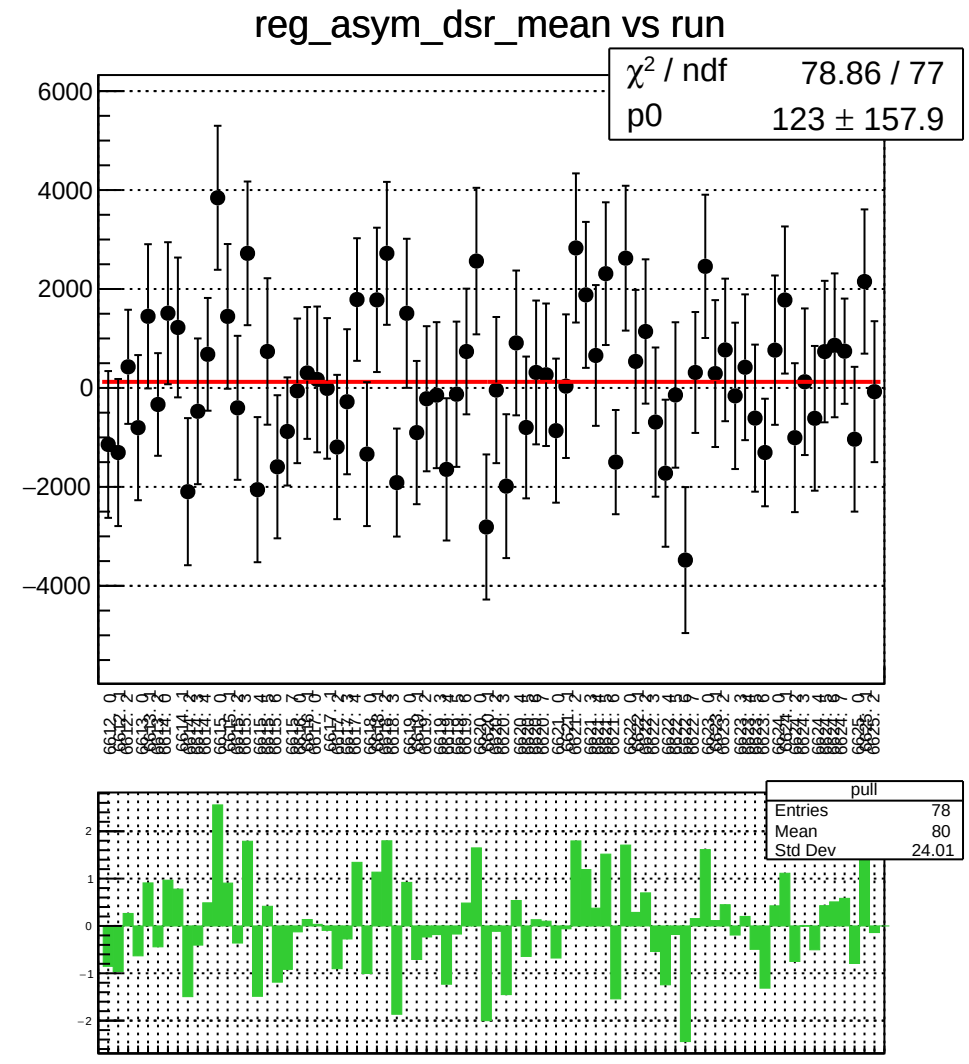

pull1D
Entries 78
Mean 0.05426
Std Dev 1.061

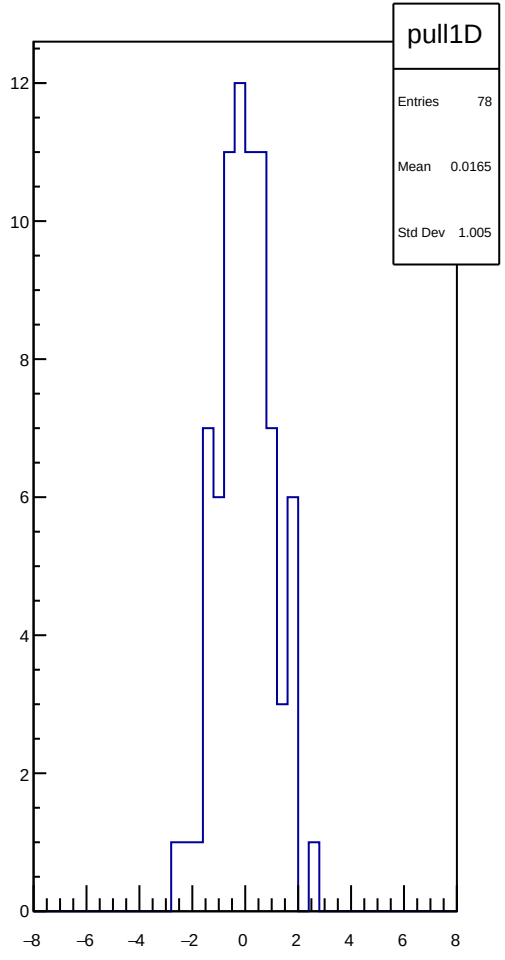

asym_dsl_correction_rms vs run
χ^2 / ndf 3.491e+05 / 77
p0 1.39 ± 0.00127
4
3.5
3
2.5
2
1.5
1
0.5

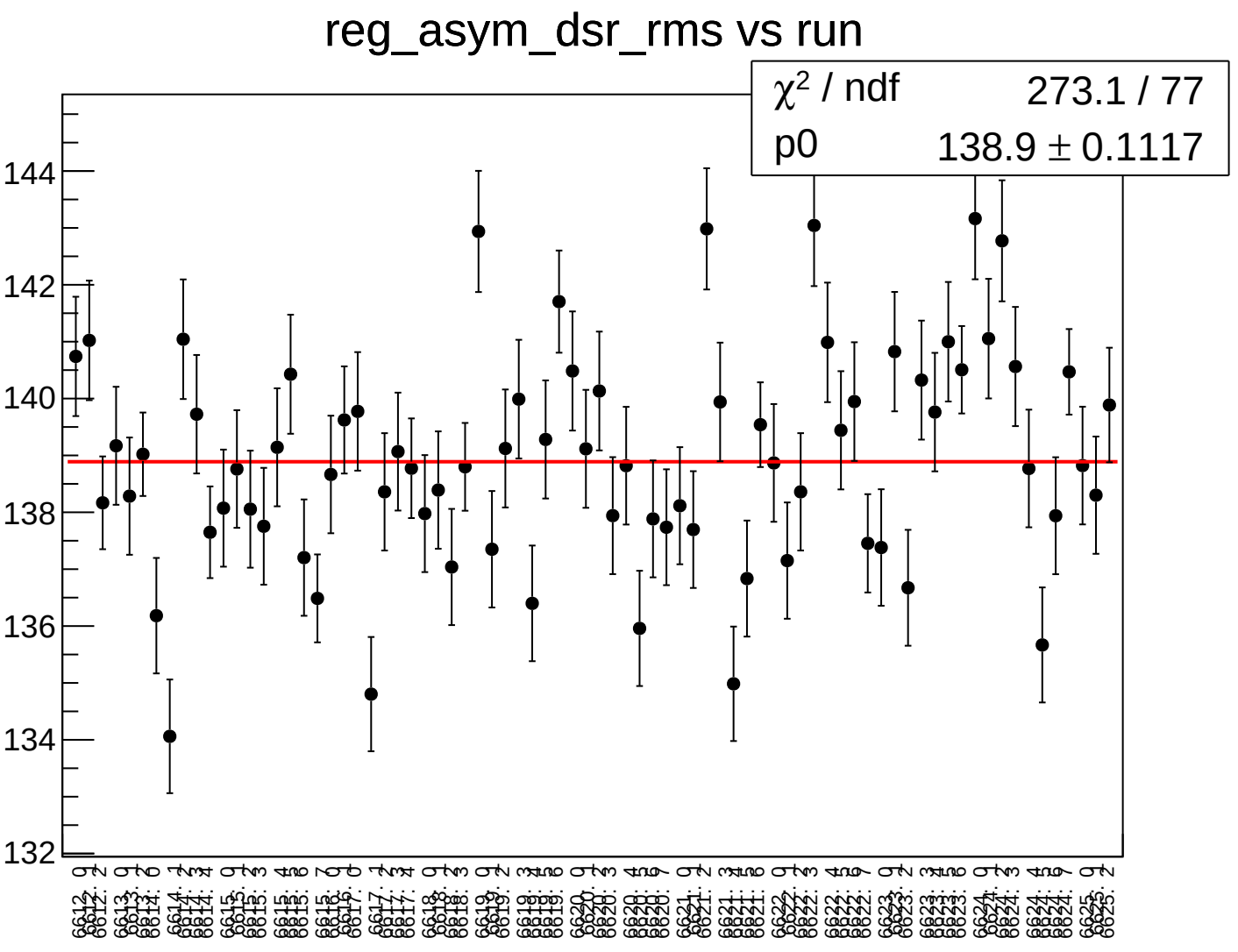

asym_dsl_mean vs run
χ² / ndf 57.32 / 77
p0 −74.85 ± 112.5
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 78
Mean −2226
Std Dev 2260
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

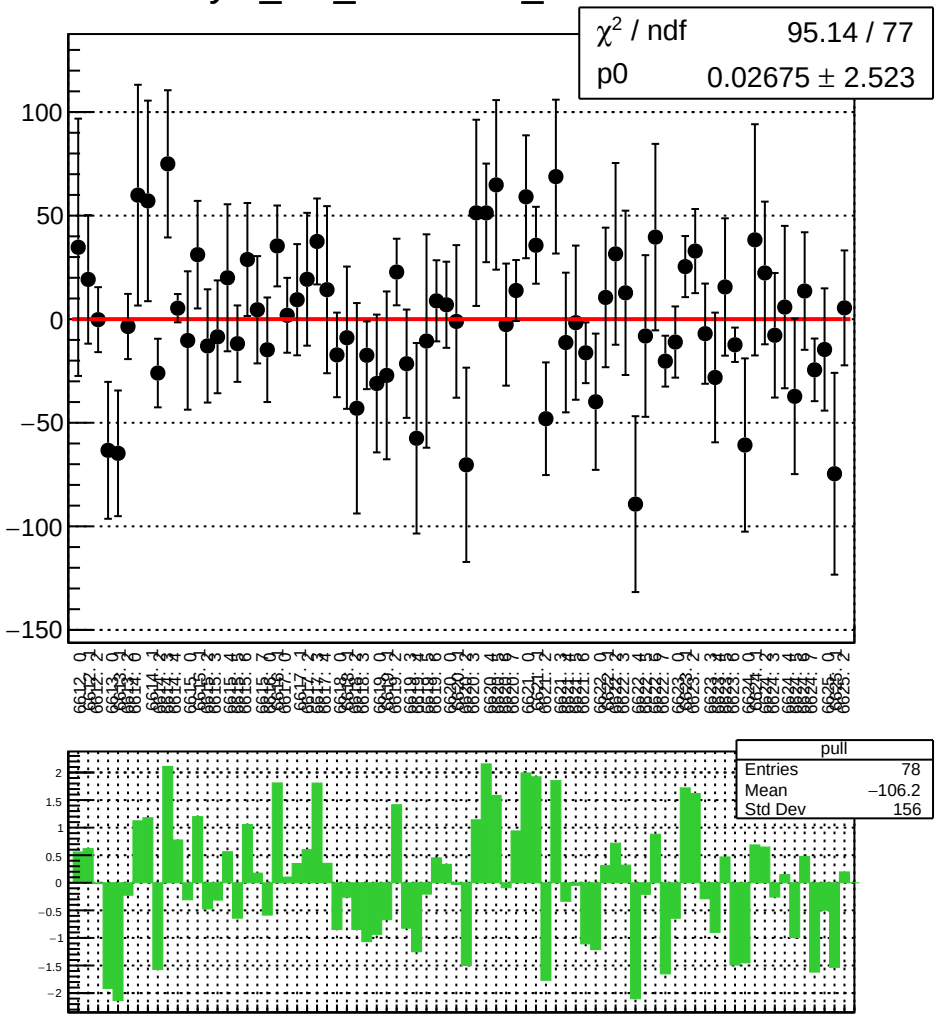

pull1D
Entries 78
Mean −0.0009902
Std Dev 0.8572
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

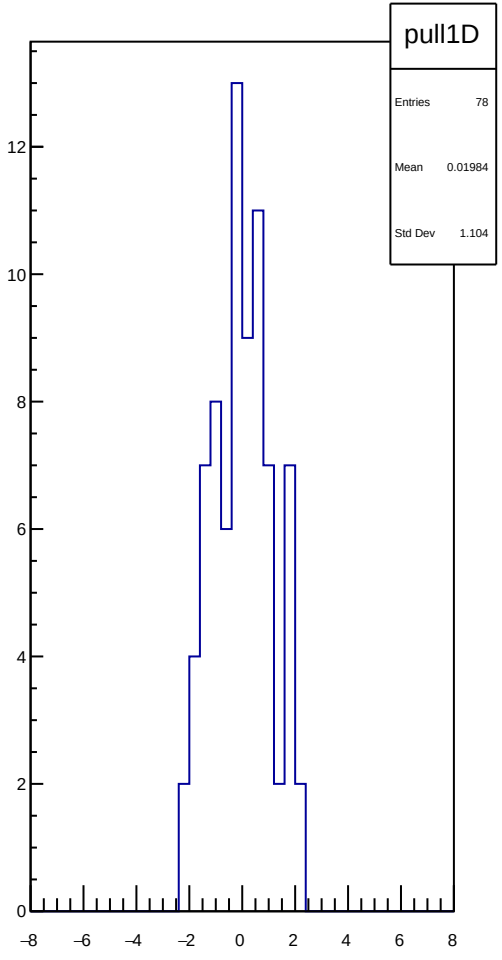

asym_dsl_rms vs run
χ^2 / ndf 145.7 / 77
p0 98.99 ± 0.07958
102
101
100
99
98
97
96


reg_asym_dsr_mean vs run
χ² / ndf 78.86 / 77
p0 123 ± 157.9
6000
4000
2000
0
−2000
−4000
pull
Entries 78
Mean 80
Std Dev 24.01
2
1
0
−1
−2

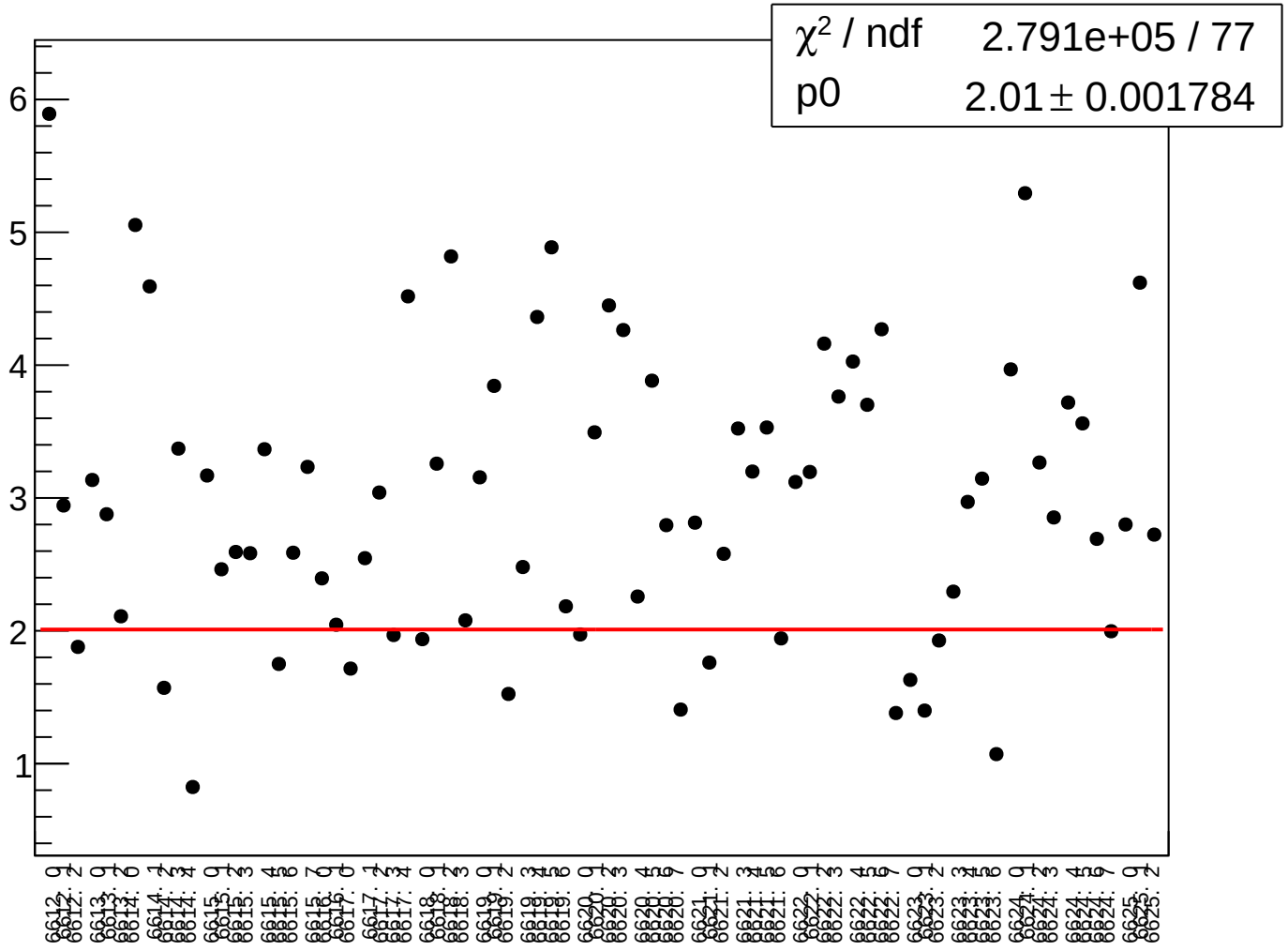

pull1D
Entries 78
Mean 0.0165
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

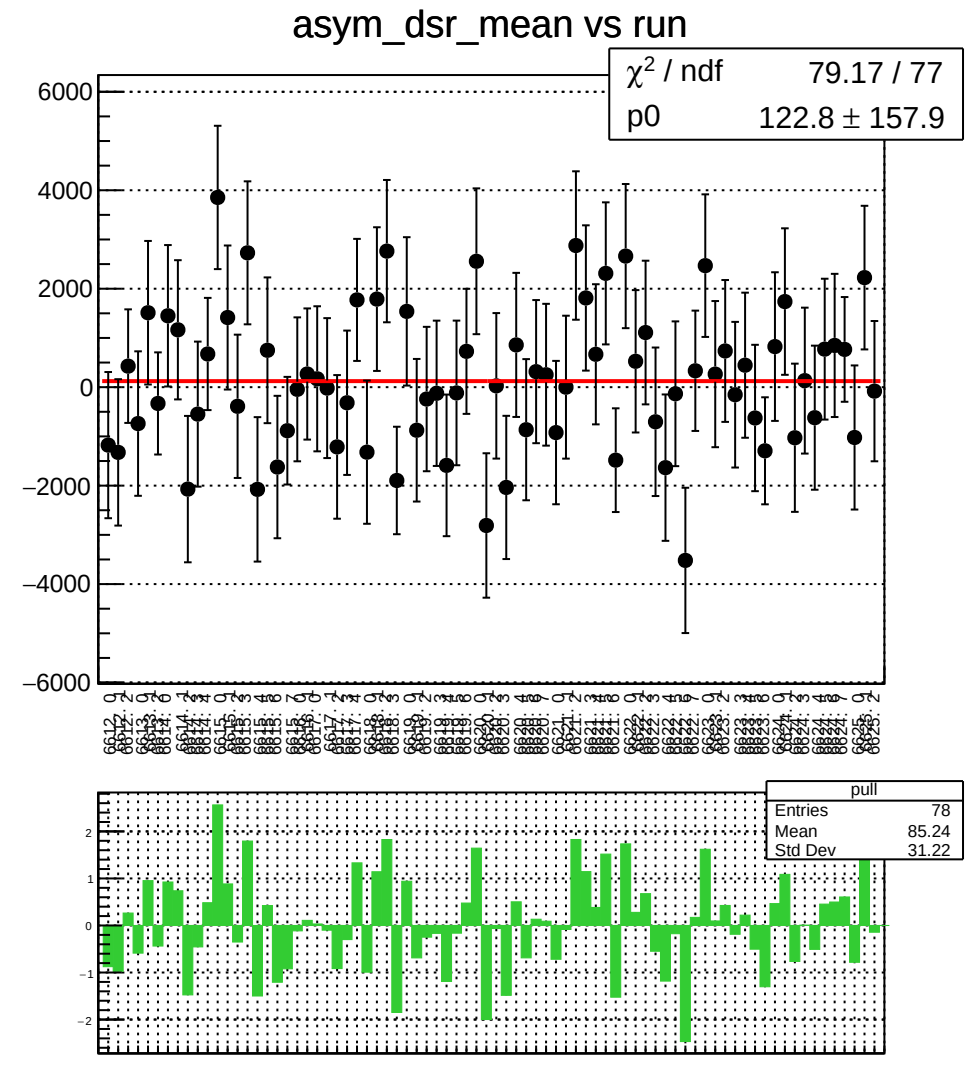

reg_asym_dsr_rms vs run
χ² / ndf 273.1 / 77
p0 138.9 ± 0.1117
144
142
140
138
136
134
132

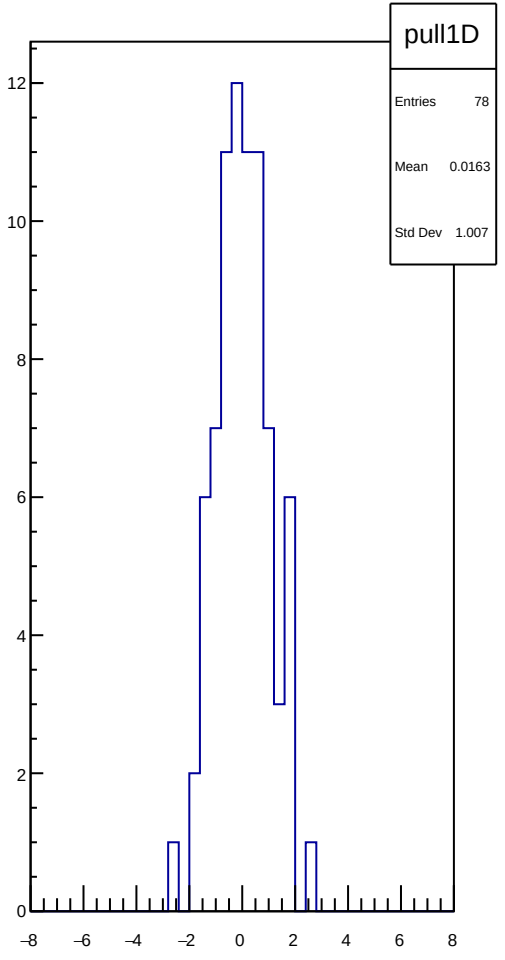

asym_dsr_correction_mean vs run
χ² / ndf 95.14 / 77
p0 0.02675 ± 2.523
pull
Entries 78
Mean −106.2
Std Dev 156

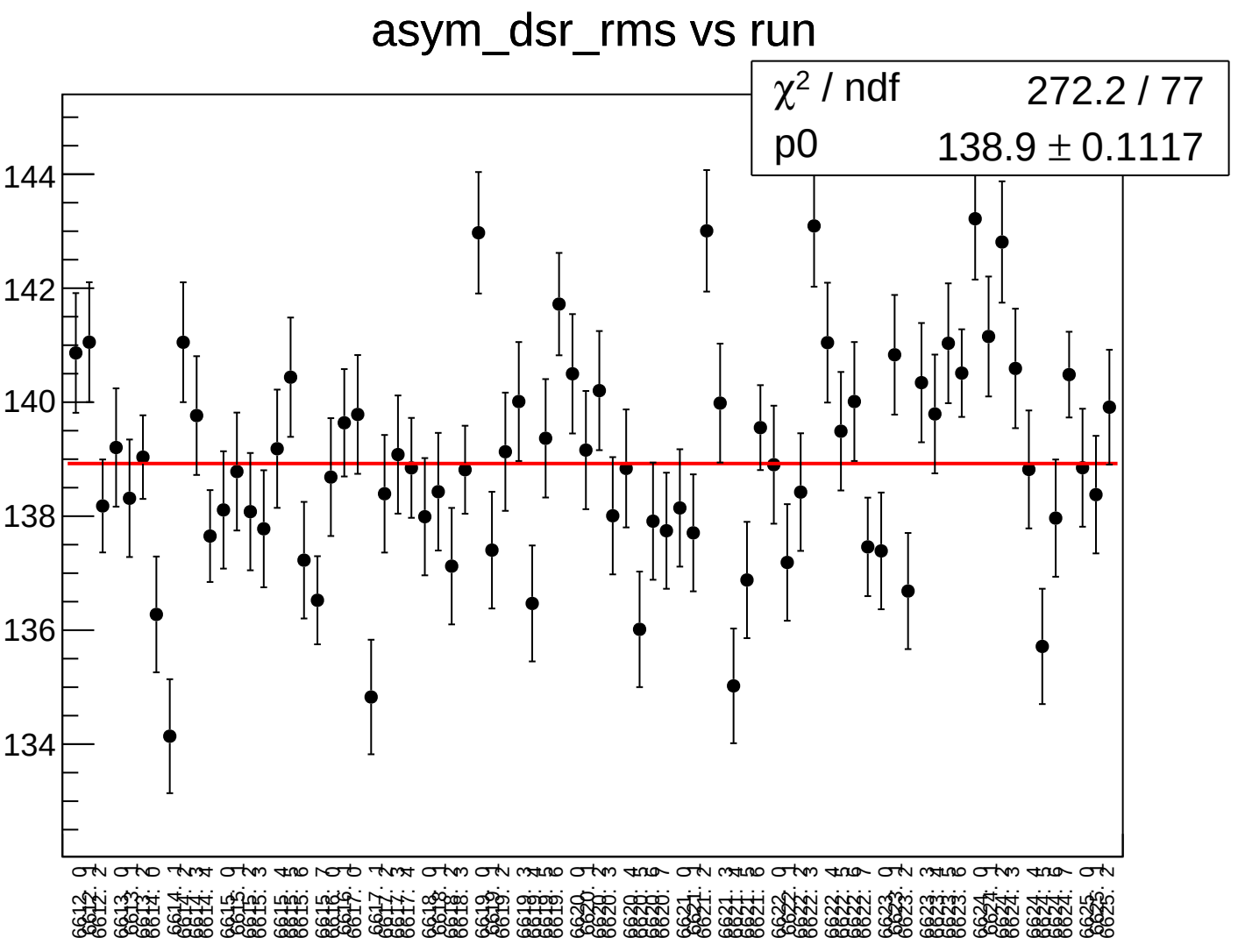

pull1D
Entries 78
Mean 0.01984
Std Dev 1.104

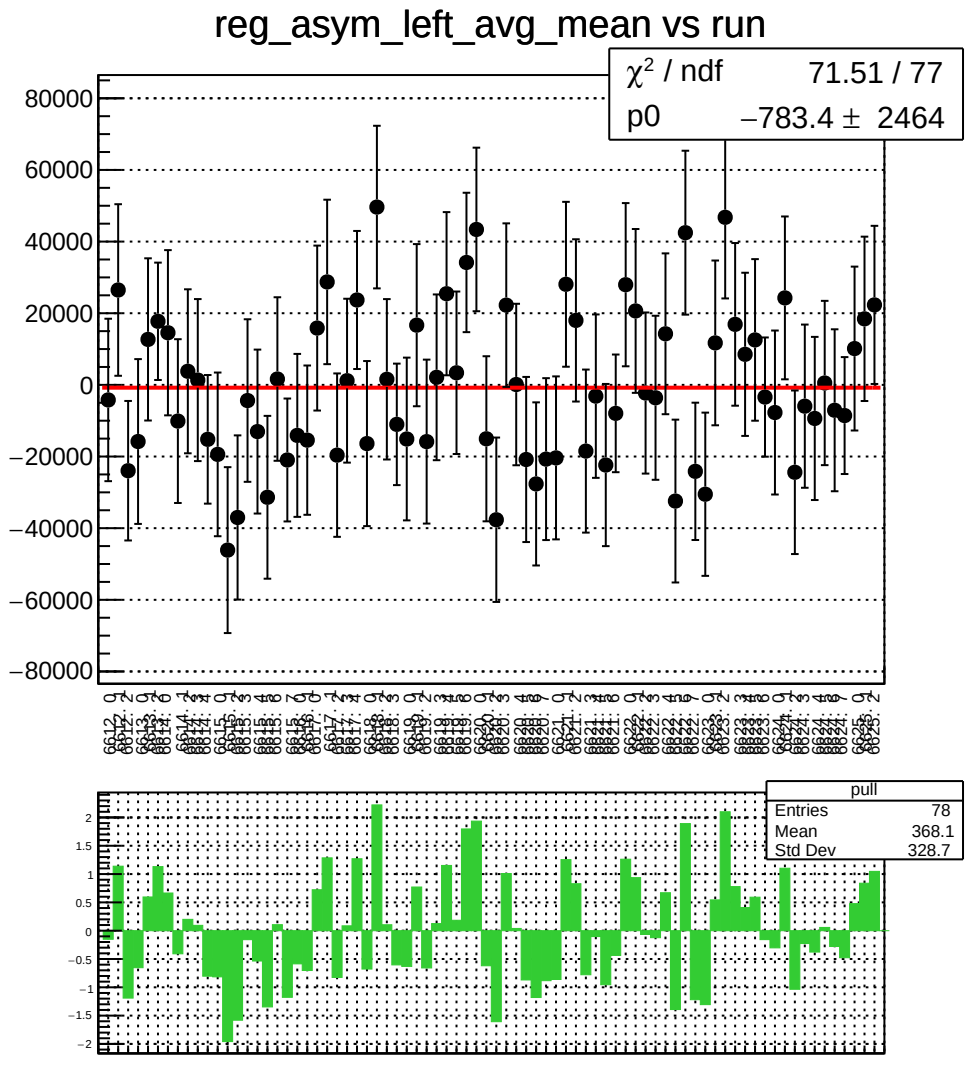
asym_dsr_correction_rms vs run

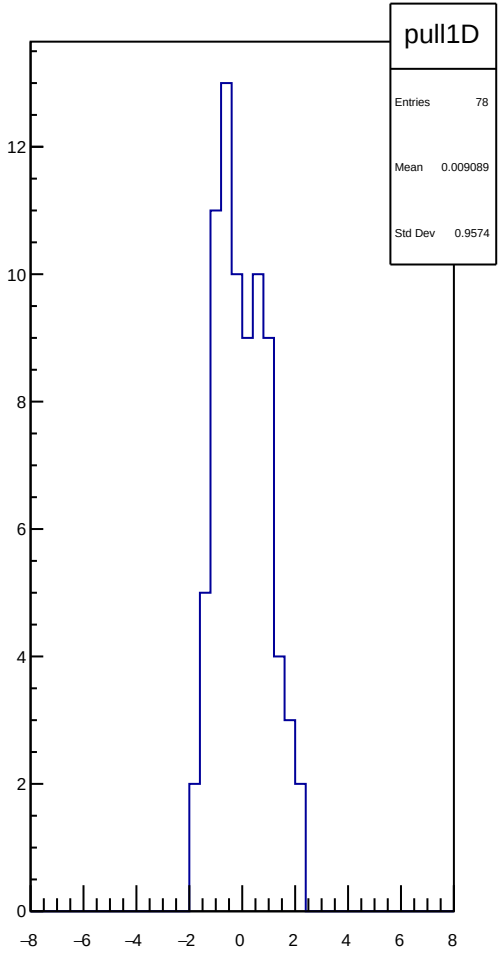


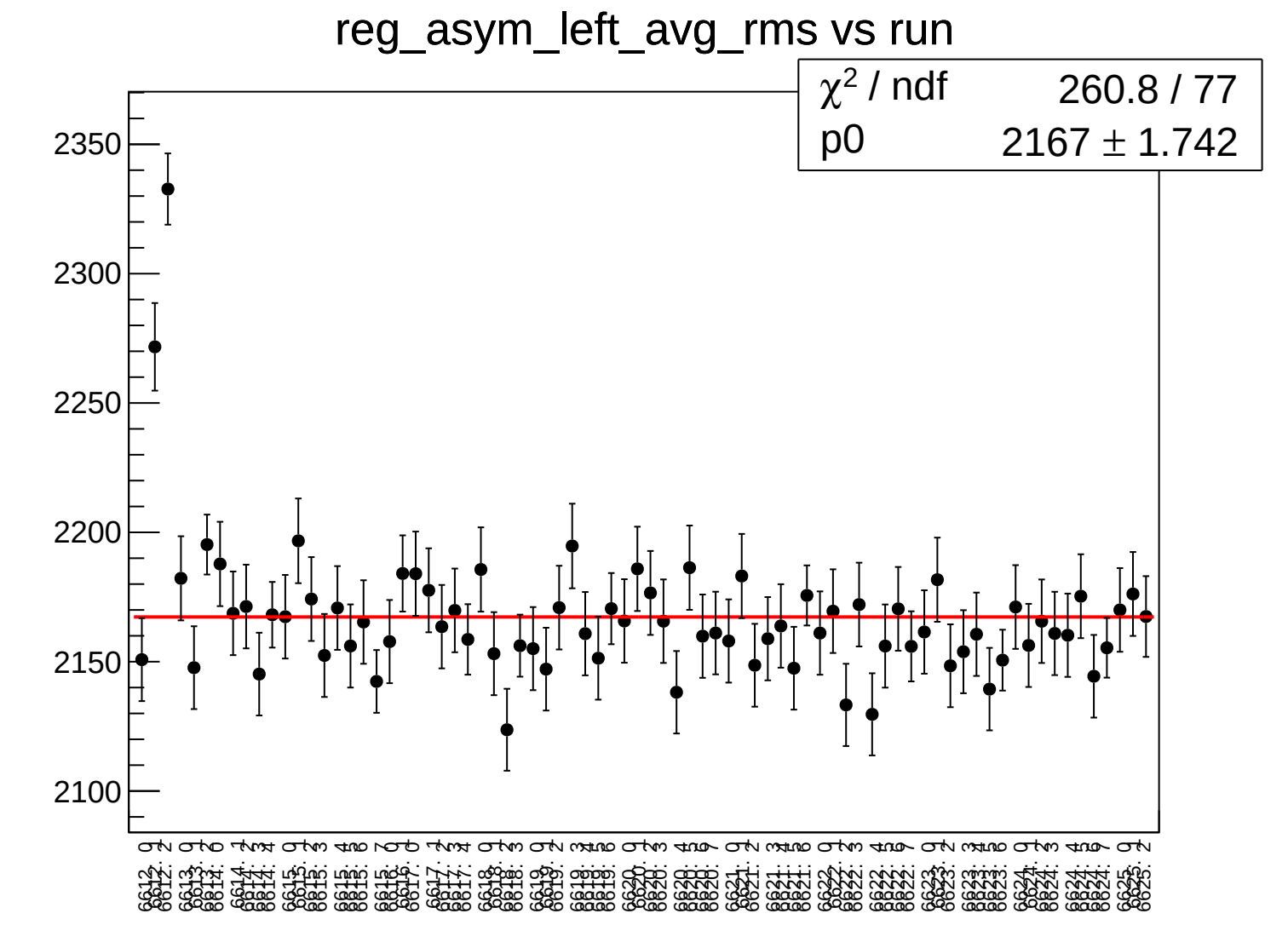

asym_dsr_mean vs run
χ² / ndf 79.17 / 77
p0 122.8 ± 157.9
pull
Entries 78
Mean 85.24
Std Dev 31.22

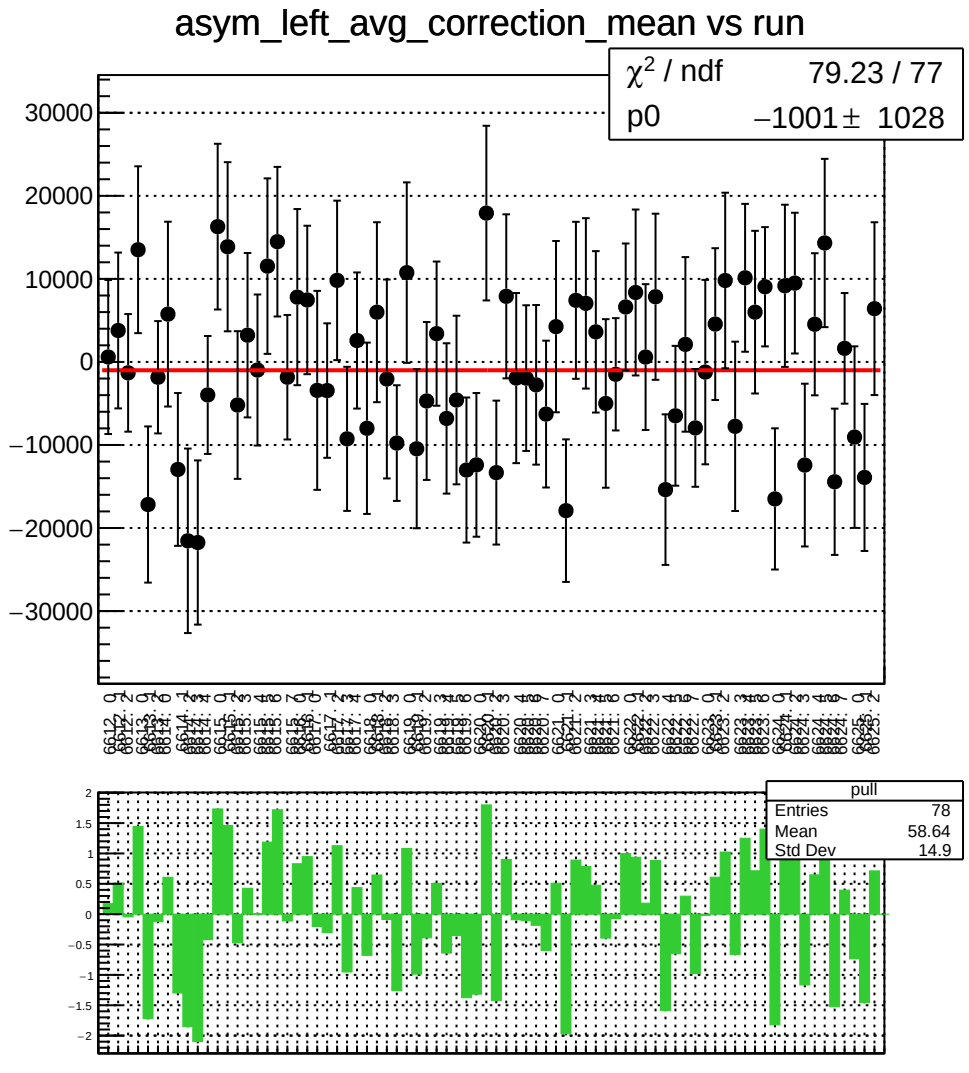

pull1D
Entries 78
Mean 0.0163
Std Dev 1.007

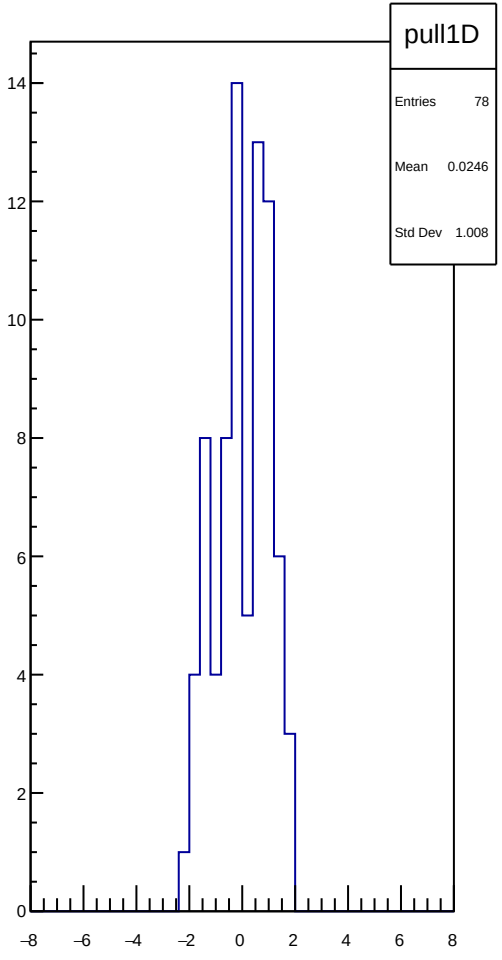

asym_dsr_rms vs run
χ^2 / ndf 272.2 / 77
p0 138.9 ± 0.1117
144
142
140
138
136
134

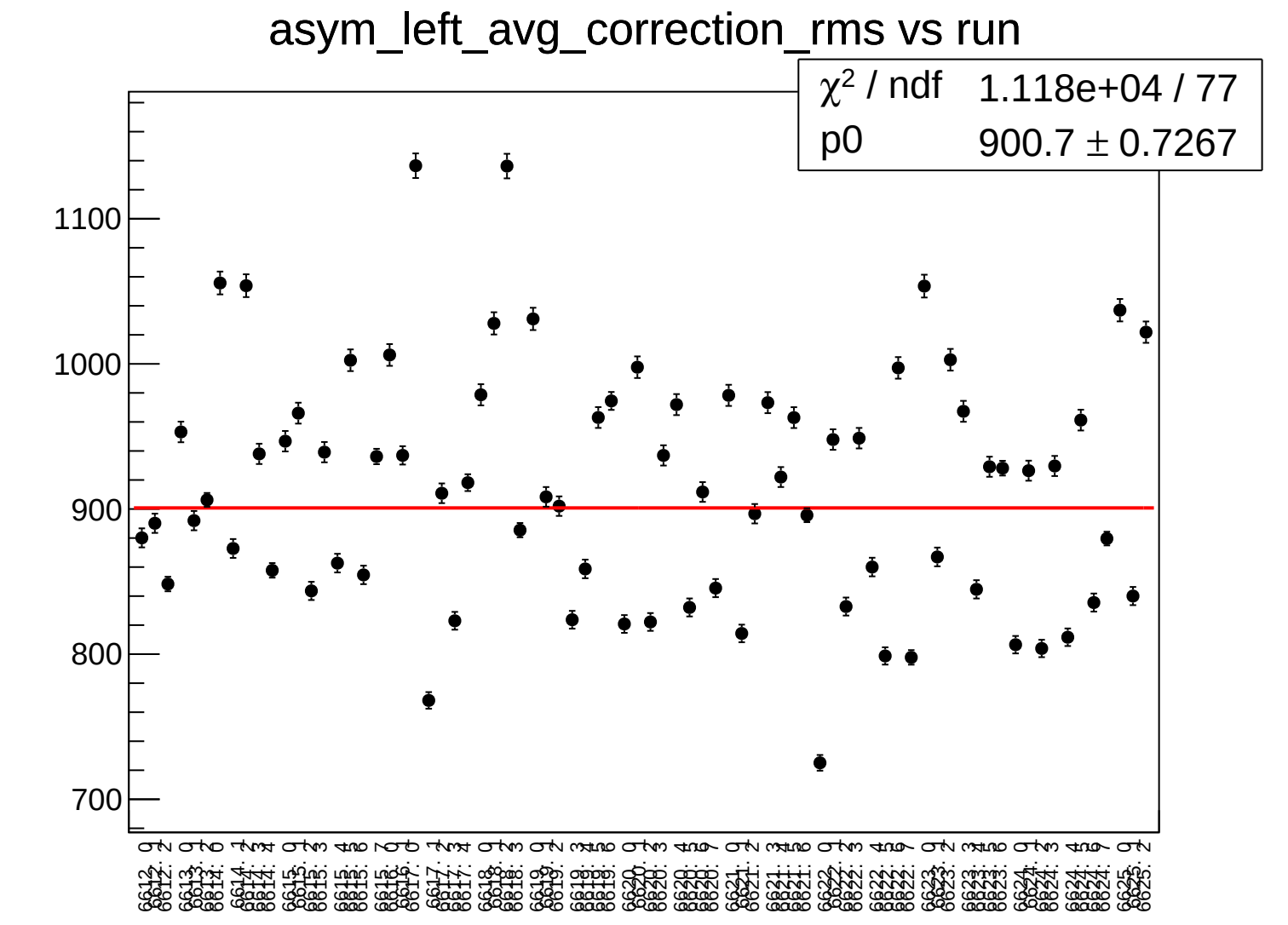

reg_asym_left_avg_mean vs run
χ² / ndf 71.51 / 77
p0 −783.4 ± 2464
pull
Entries 78
Mean 368.1
Std Dev 328.7

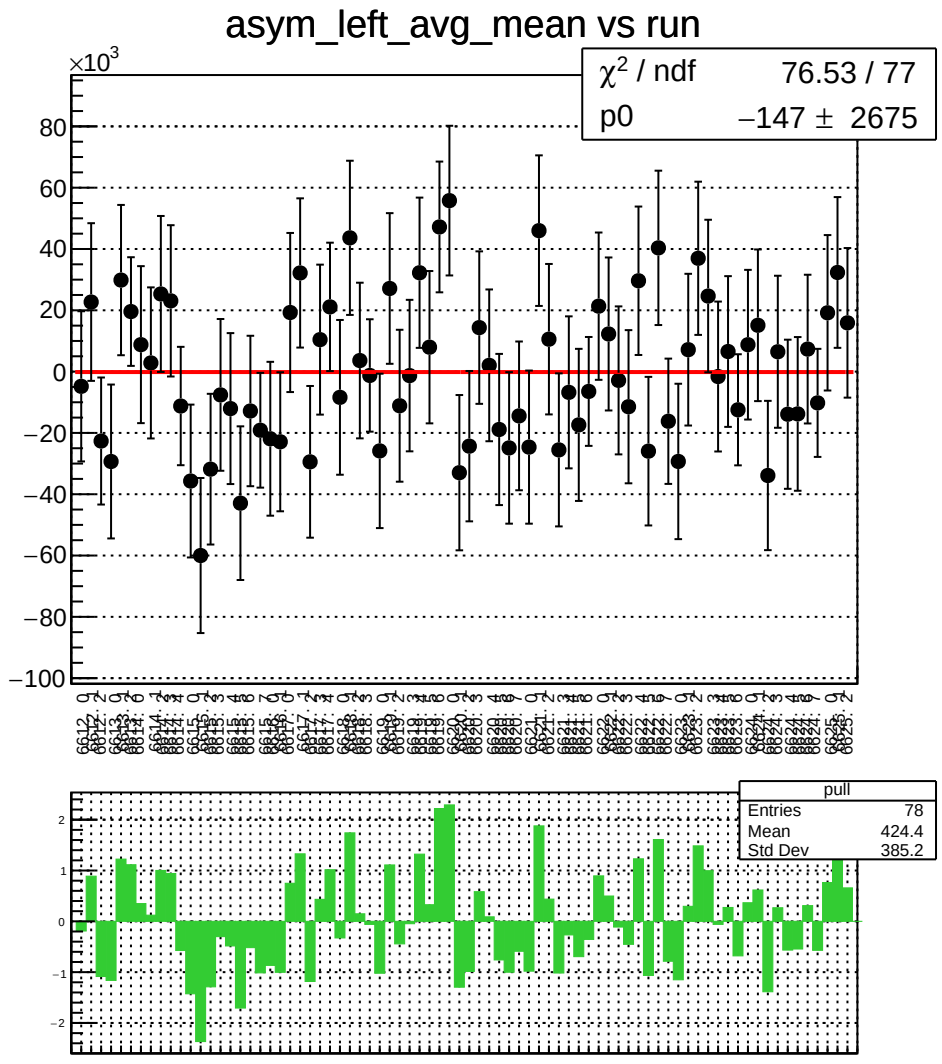

pull1D
Entries 78
Mean 0.009089
Std Dev 0.9574

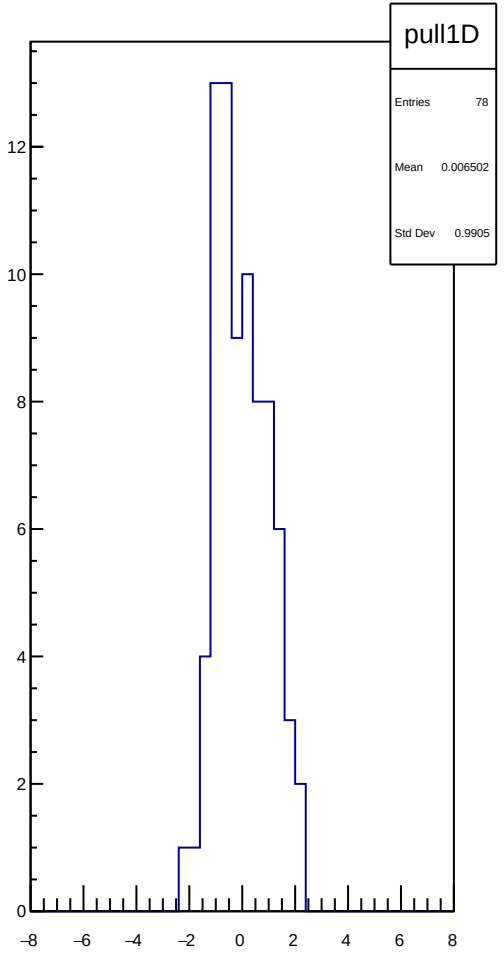

reg_asym_left_avg_rms vs run
χ² / ndf 260.8 / 77
p0 2167 ± 1.742
2350
2300
2250
2200
2150
2100

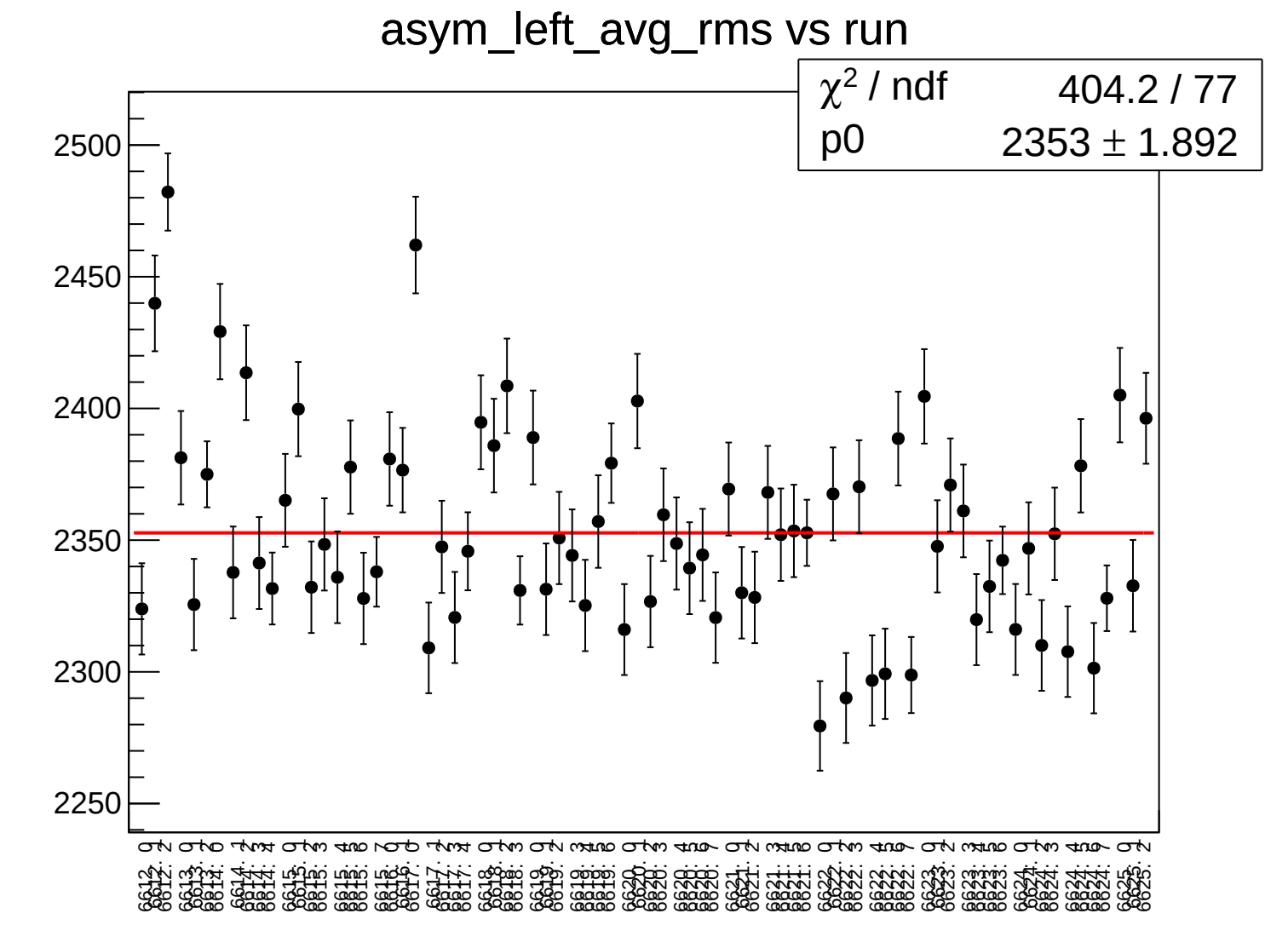

asym_left_avg_correction_mean vs run
χ² / ndf 79.23 / 77
p0 −1001 ± 1028
pull
Entries 78
Mean 58.64
Std Dev 14.9

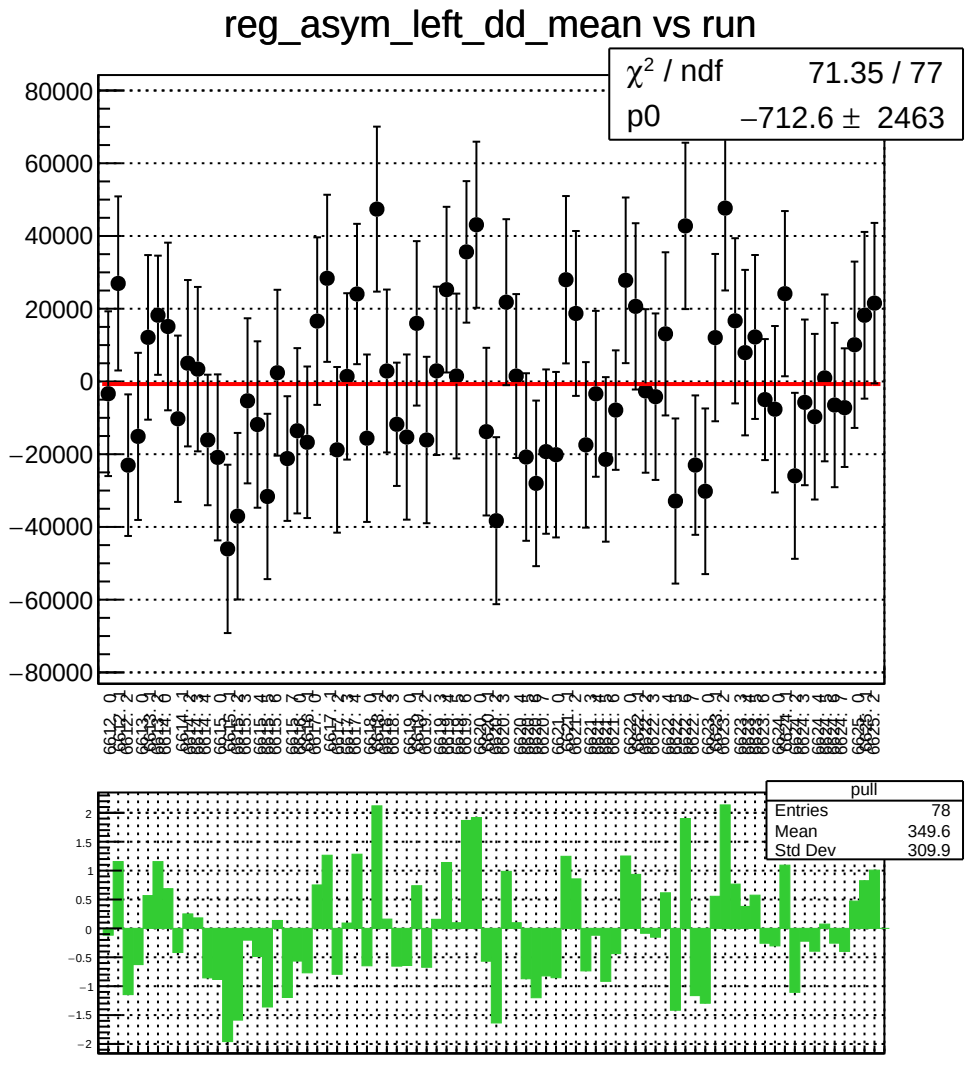

pull1D
Entries 78
Mean 0.0246
Std Dev 1.008

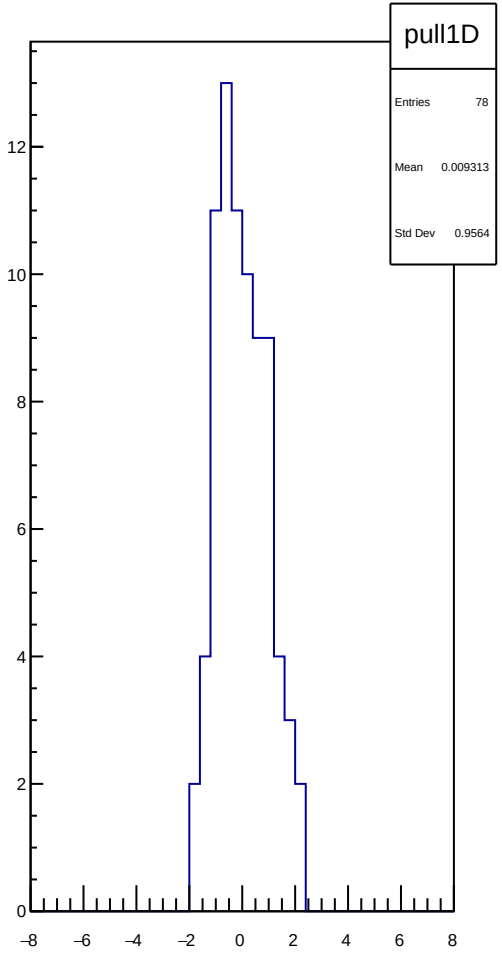

asym_left_avg_correction_rms vs run
χ² / ndf 1.118e+04 / 77
p0 900.7 ± 0.7267
1100
1000
900
800
700

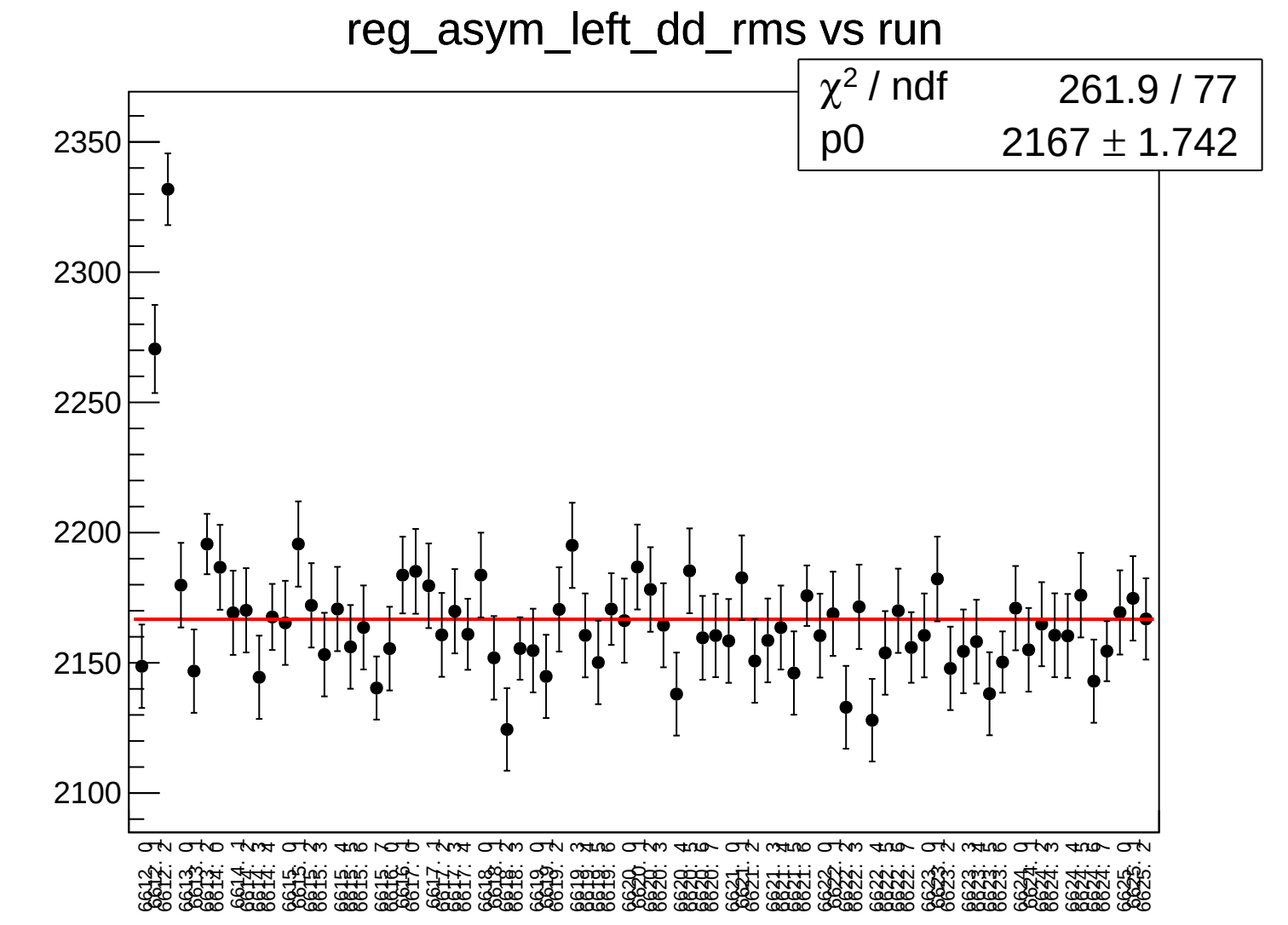

asym_left_avg_mean vs run
×10^3
χ² / ndf 76.53 / 77
p0 −147 ± 2675
pull
Entries 78
Mean 424.4
Std Dev 385.2

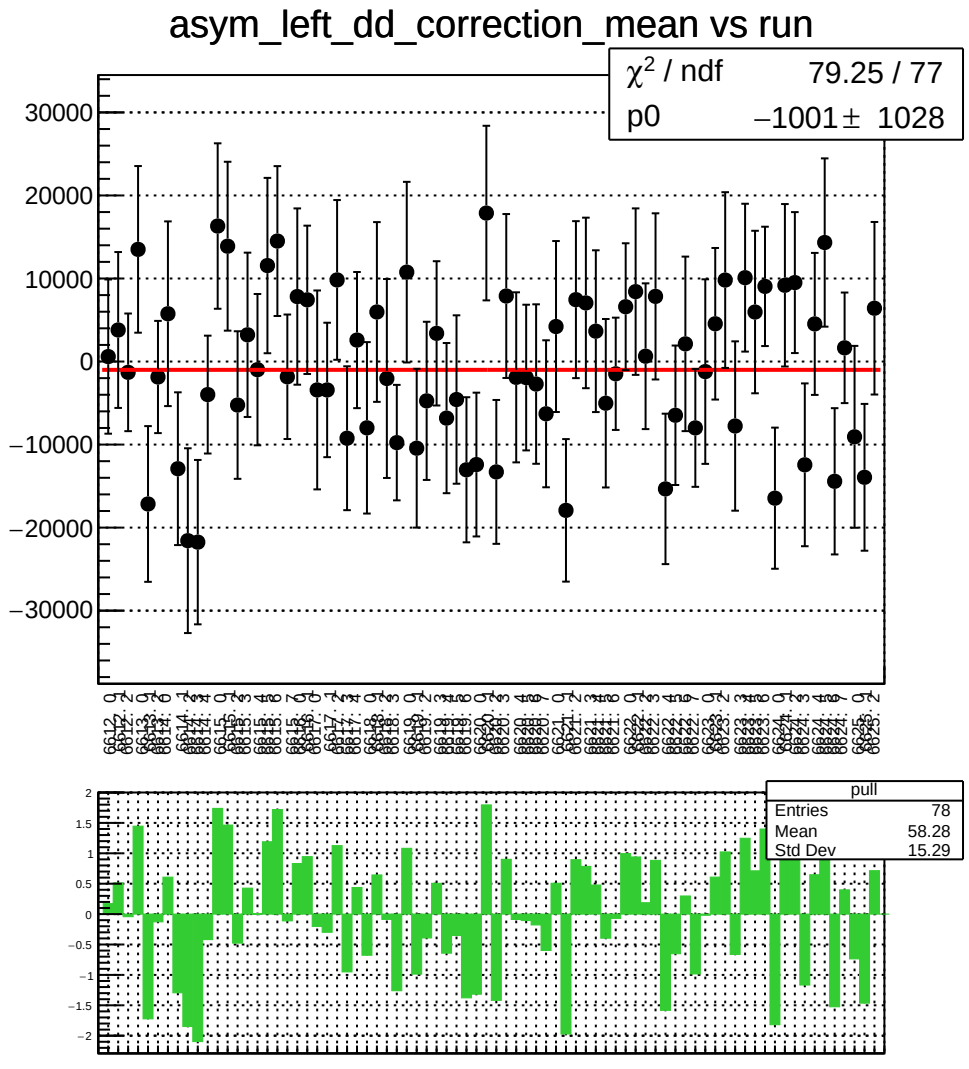

pull1D
Entries 78
Mean 0.006502
Std Dev 0.9905

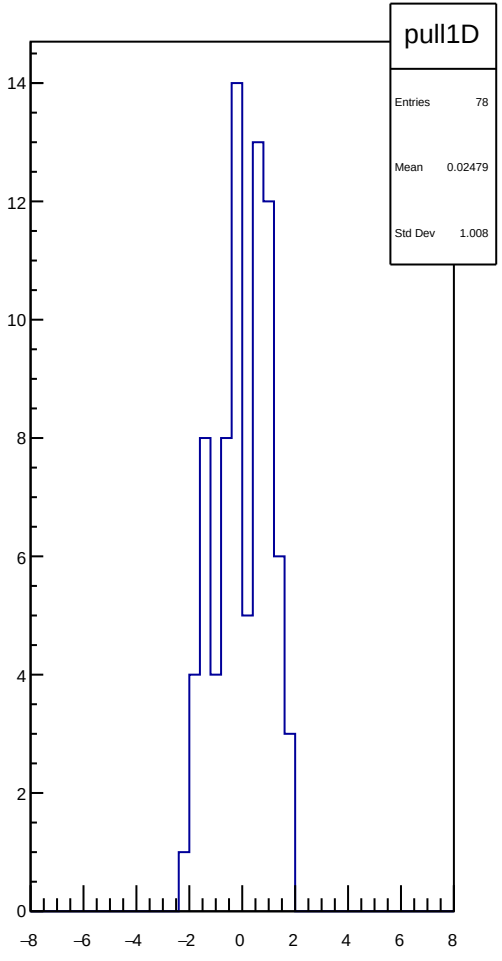

asym_left_avg_rms vs run
χ² / ndf 404.2 / 77
p0 2353 ± 1.892
2500
2450
2400
2350
2300
2250

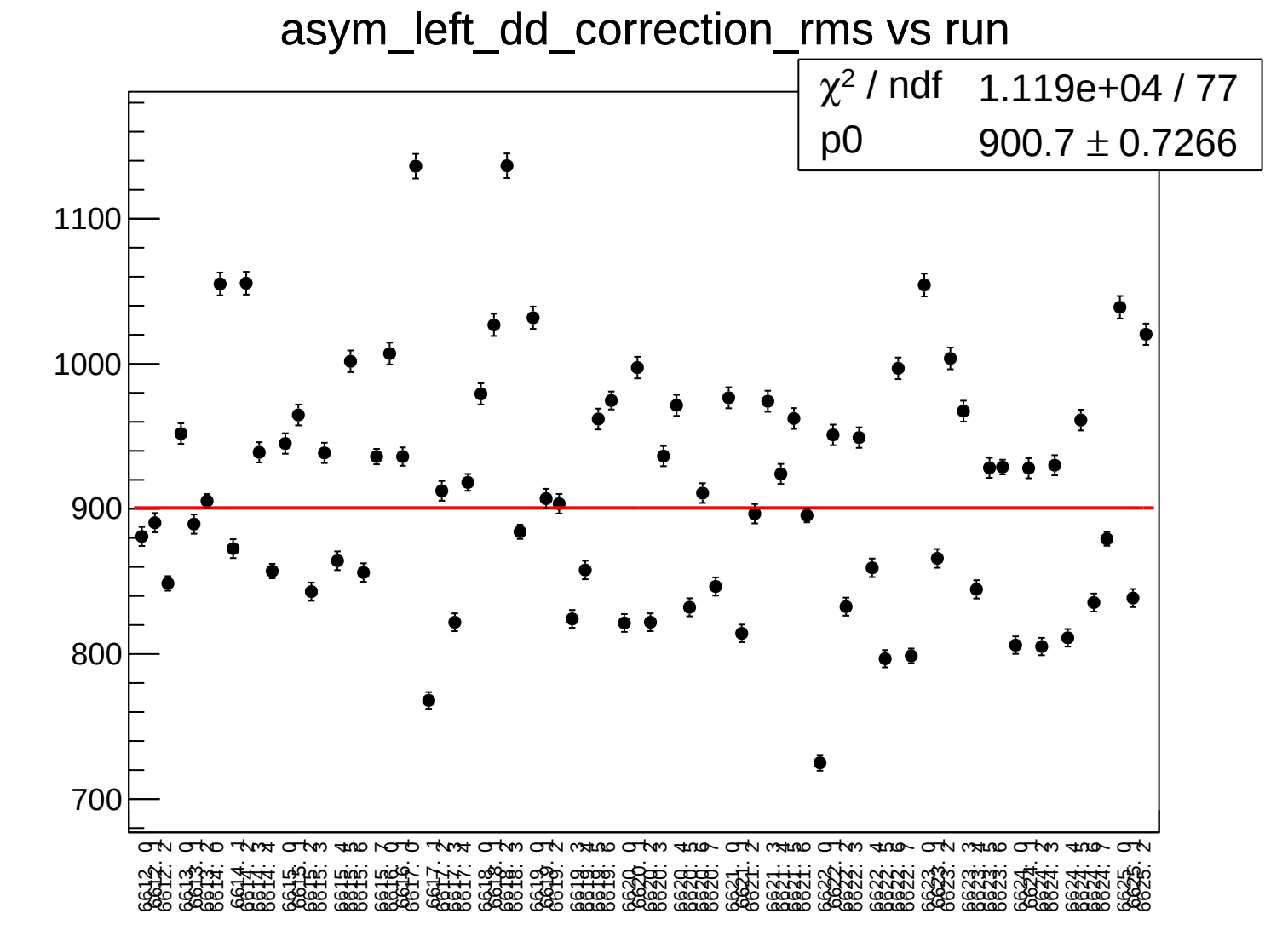

reg_asym_left_dd_mean vs run
χ² / ndf 71.35 / 77
p0 −712.6 ± 2463
pull
Entries 78
Mean 349.6
Std Dev 309.9

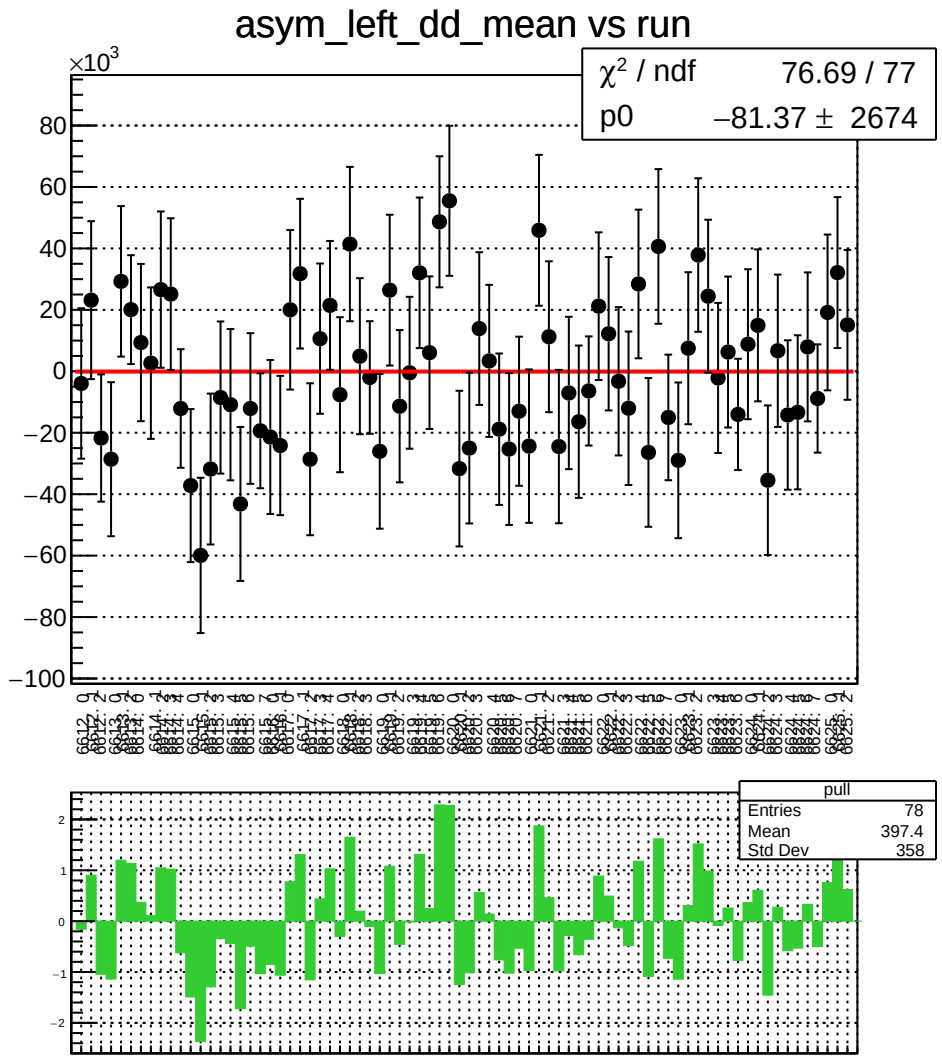

pull1D
Entries 78
Mean 0.009313
Std Dev 0.9564

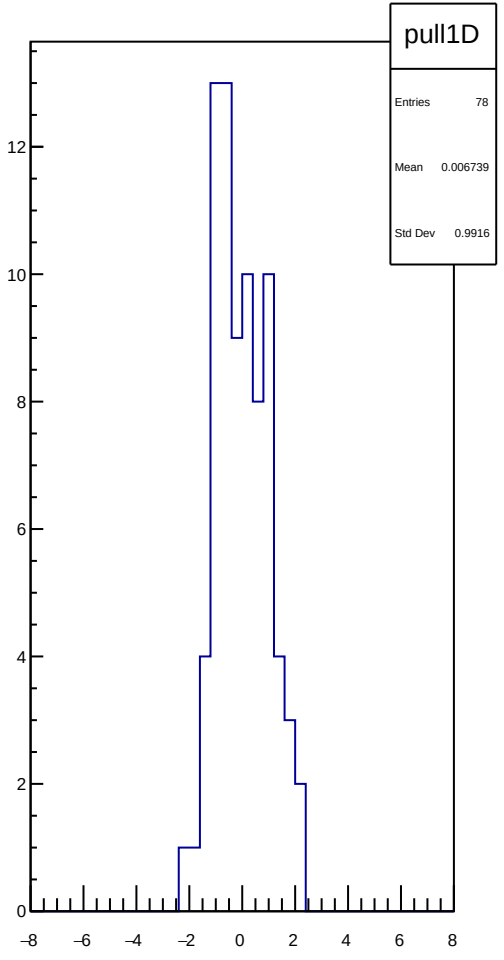

reg_asym_left_dd_rms vs run
χ² / ndf 261.9 / 77
p0 2167 ± 1.742
2350
2300
2250
2200
2150
2100

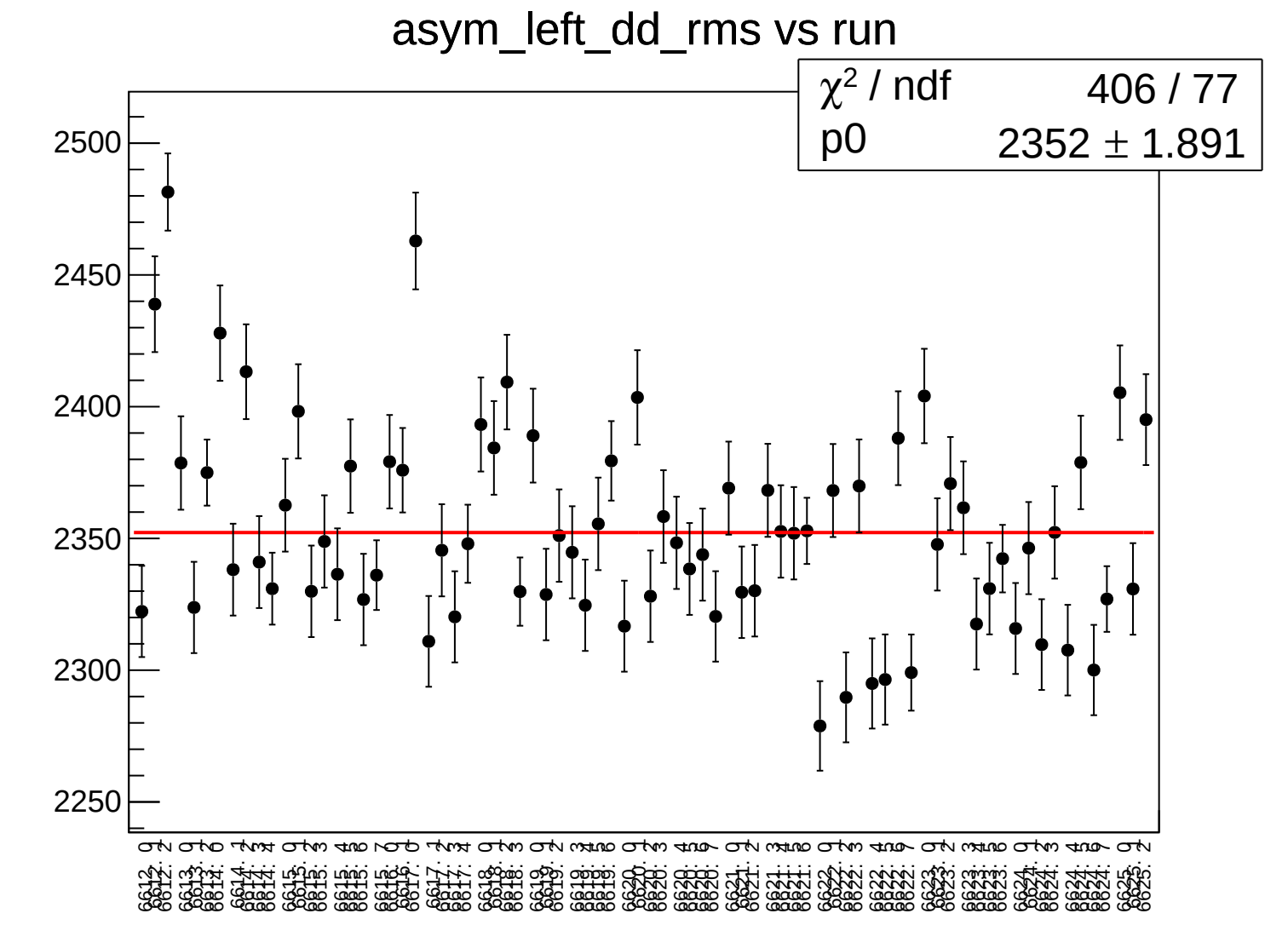

asym_left_dd_correction_mean vs run
χ² / ndf 79.25 / 77
p0 −1001 ± 1028
pull
Entries 78
Mean 58.28
Std Dev 15.29

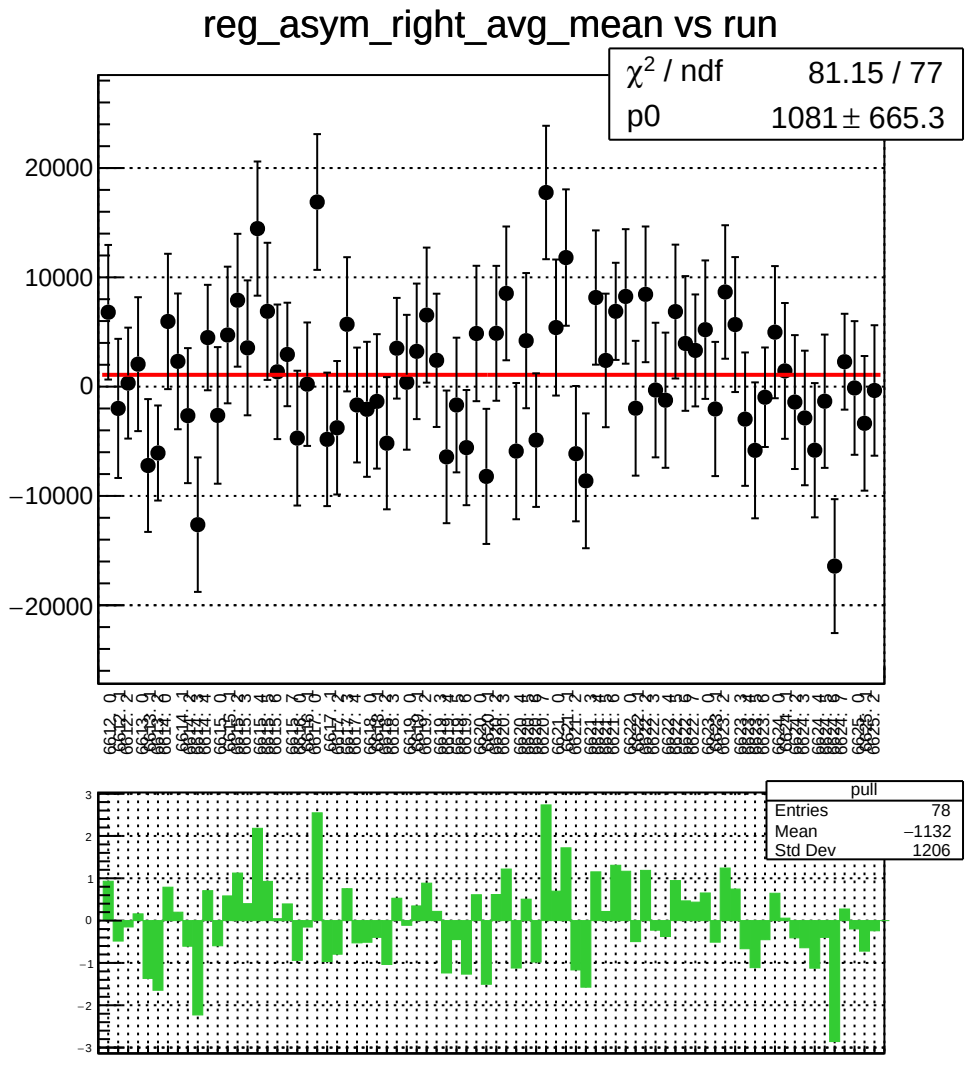

pull1D
Entries 78
Mean 0.02479
Std Dev 1.008

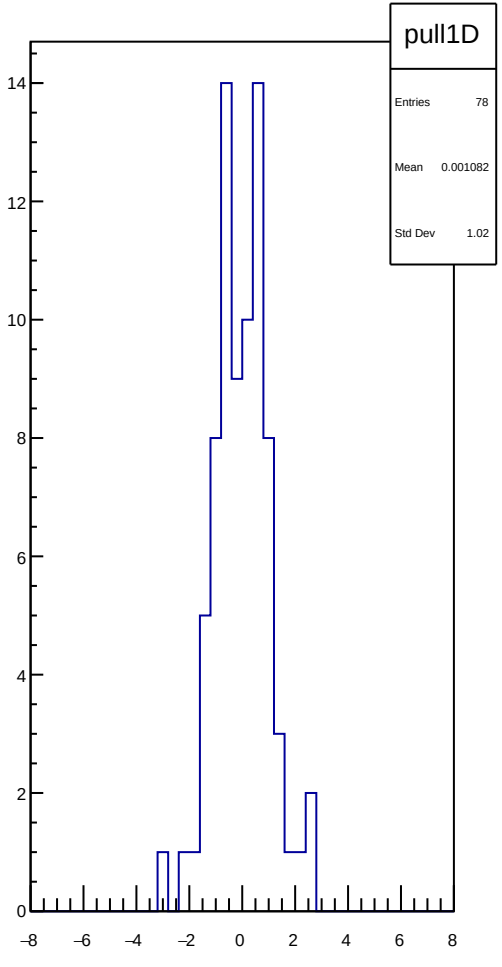

asym_left_dd_correction_rms vs run
χ² / ndf 1.119e+04 / 77
p0 900.7 ± 0.7266
1100
1000
900
800
700

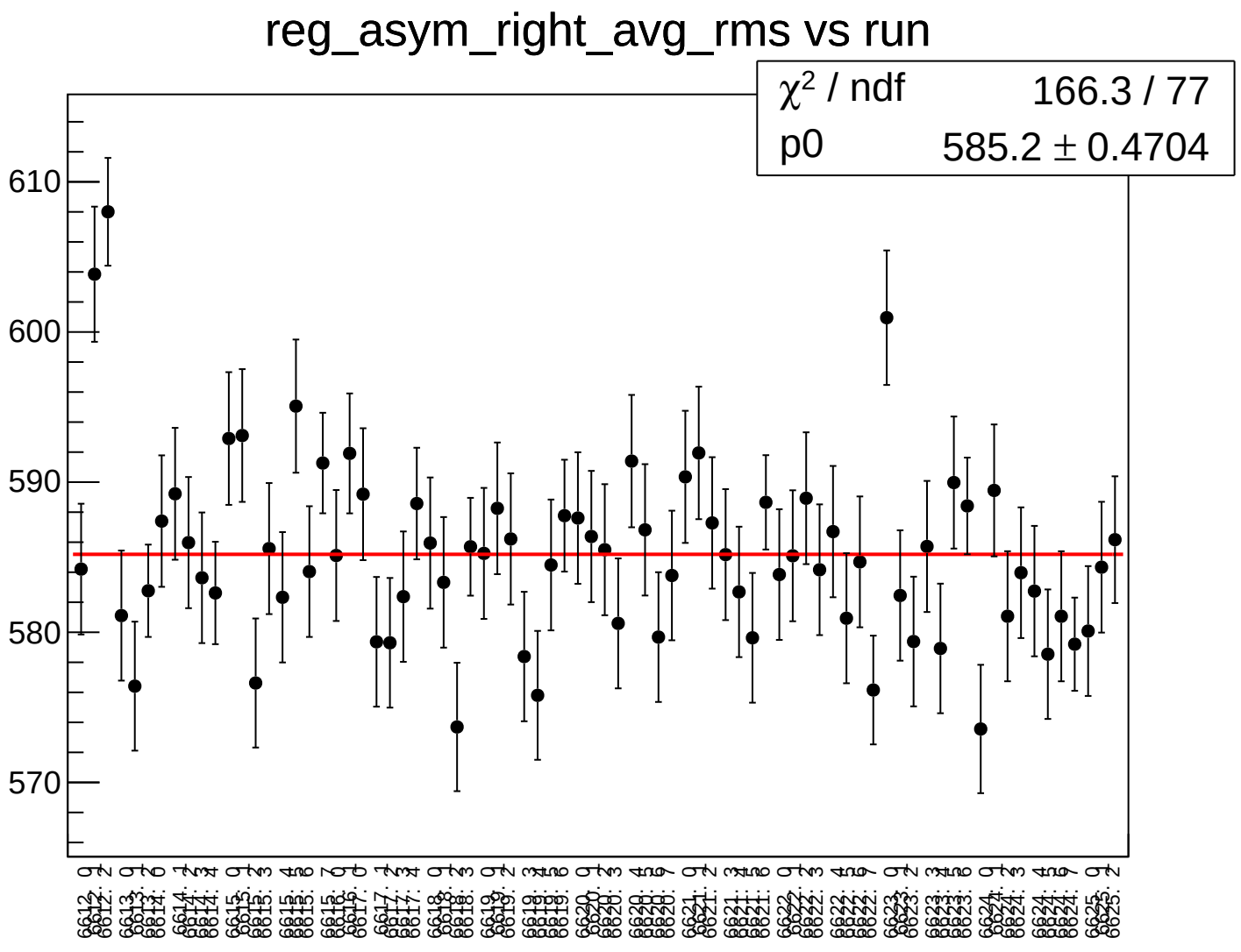

asym_left_dd_mean vs run
χ² / ndf 76.69 / 77
p0 −81.37 ± 2674
×10³
pull
Entries 78
Mean 397.4
Std Dev 358

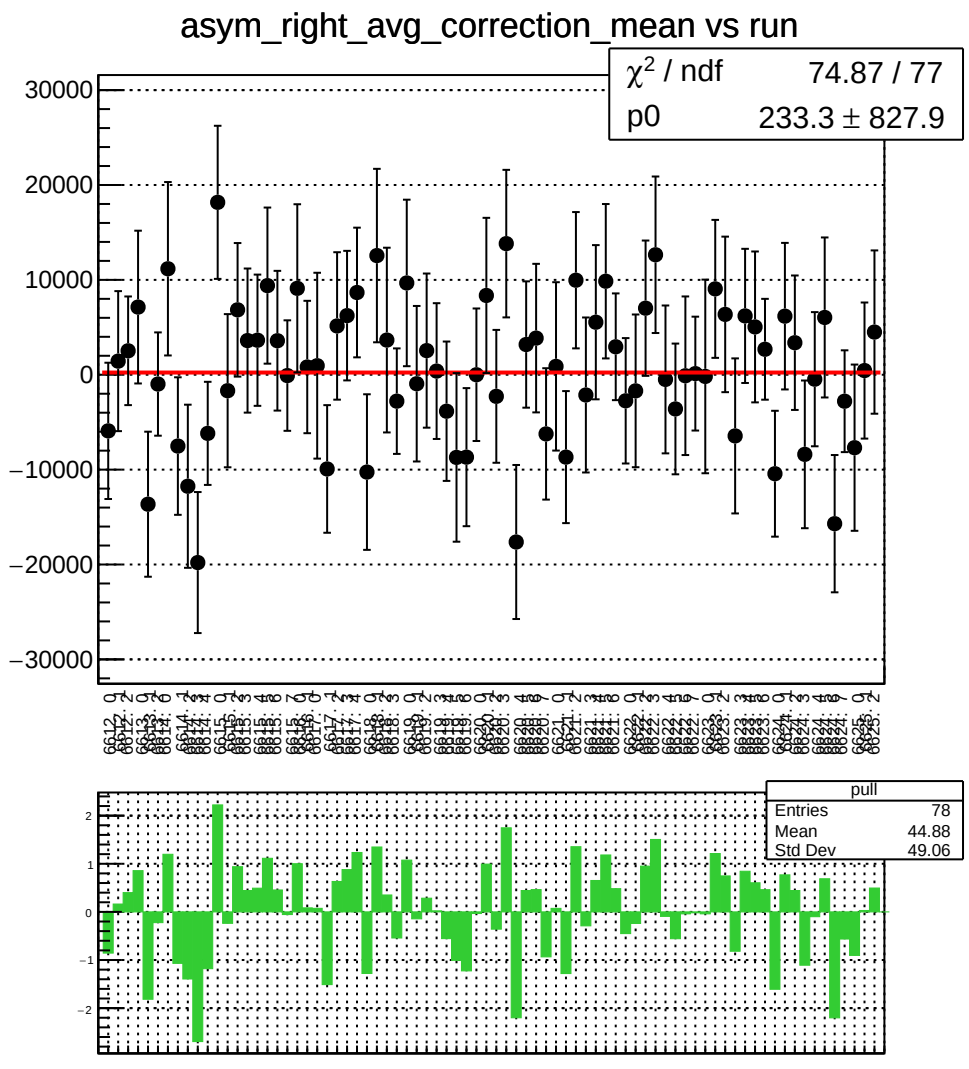

pull1D
Entries 78
Mean 0.006739
Std Dev 0.9916

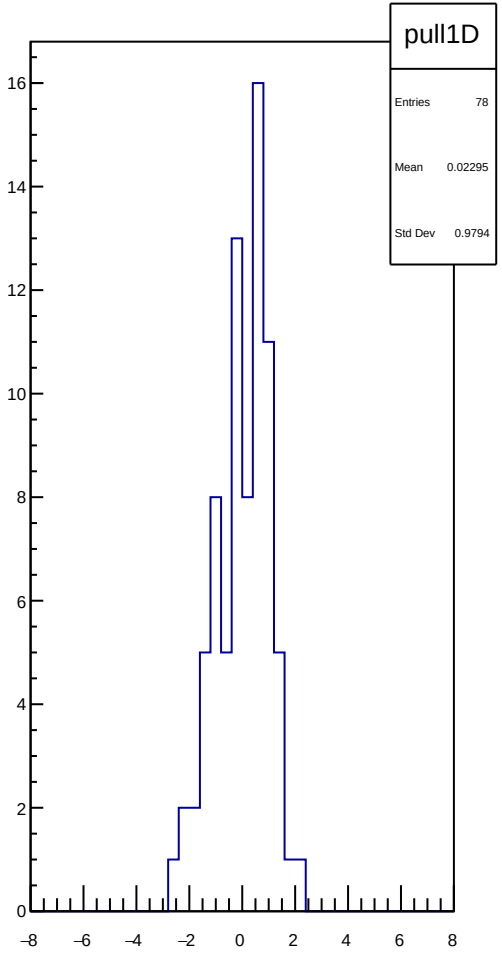

asym_left_dd_rms vs run
χ² / ndf 406 / 77
p0 2352 ± 1.891
2500
2450
2400
2350
2300
2250

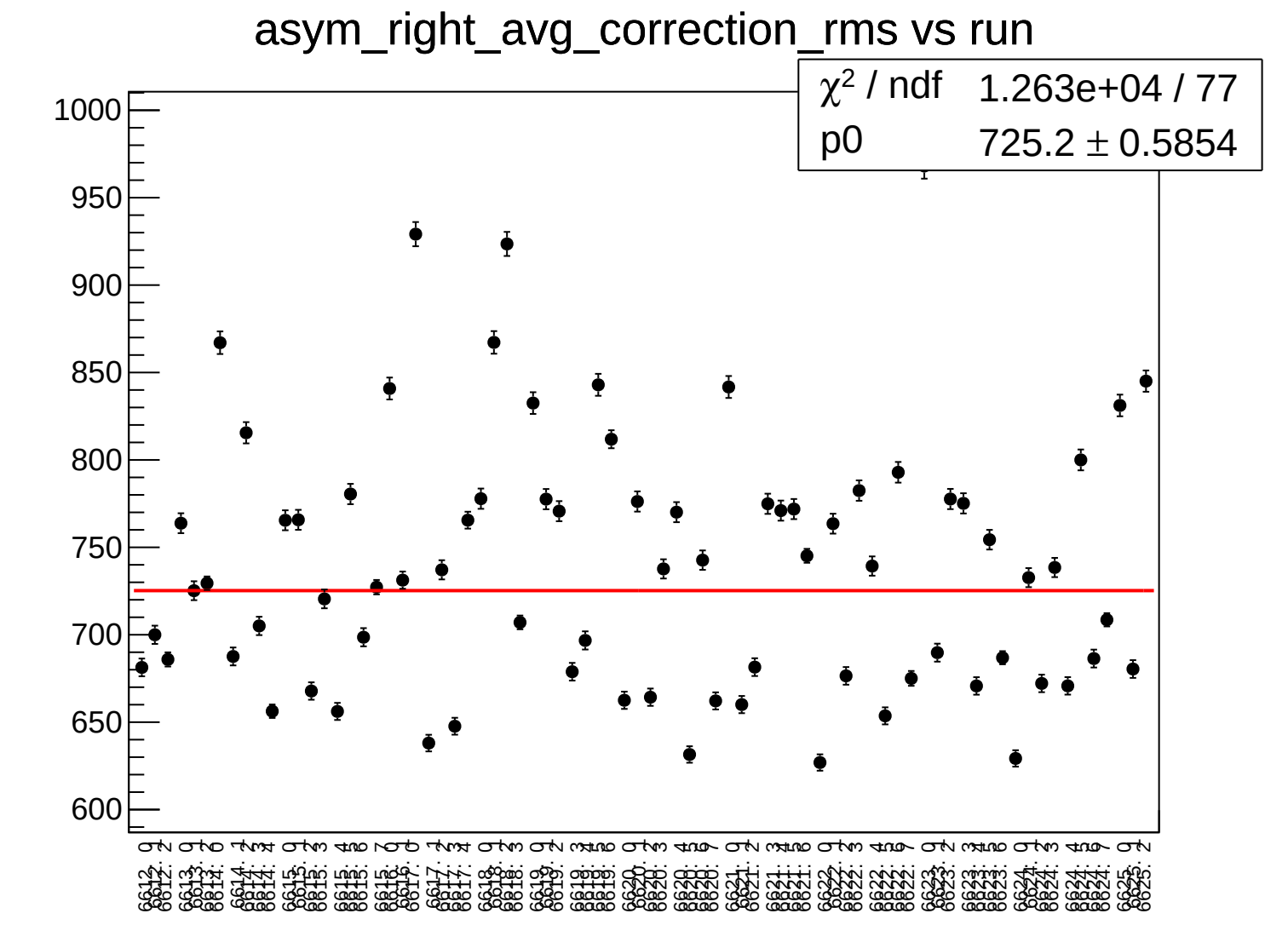

reg_asym_right_avg_mean vs run
χ² / ndf 81.15 / 77
p0 1081 ± 665.3
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −1132
Std Dev 1206
3
2
1
0
−1
−2
−3

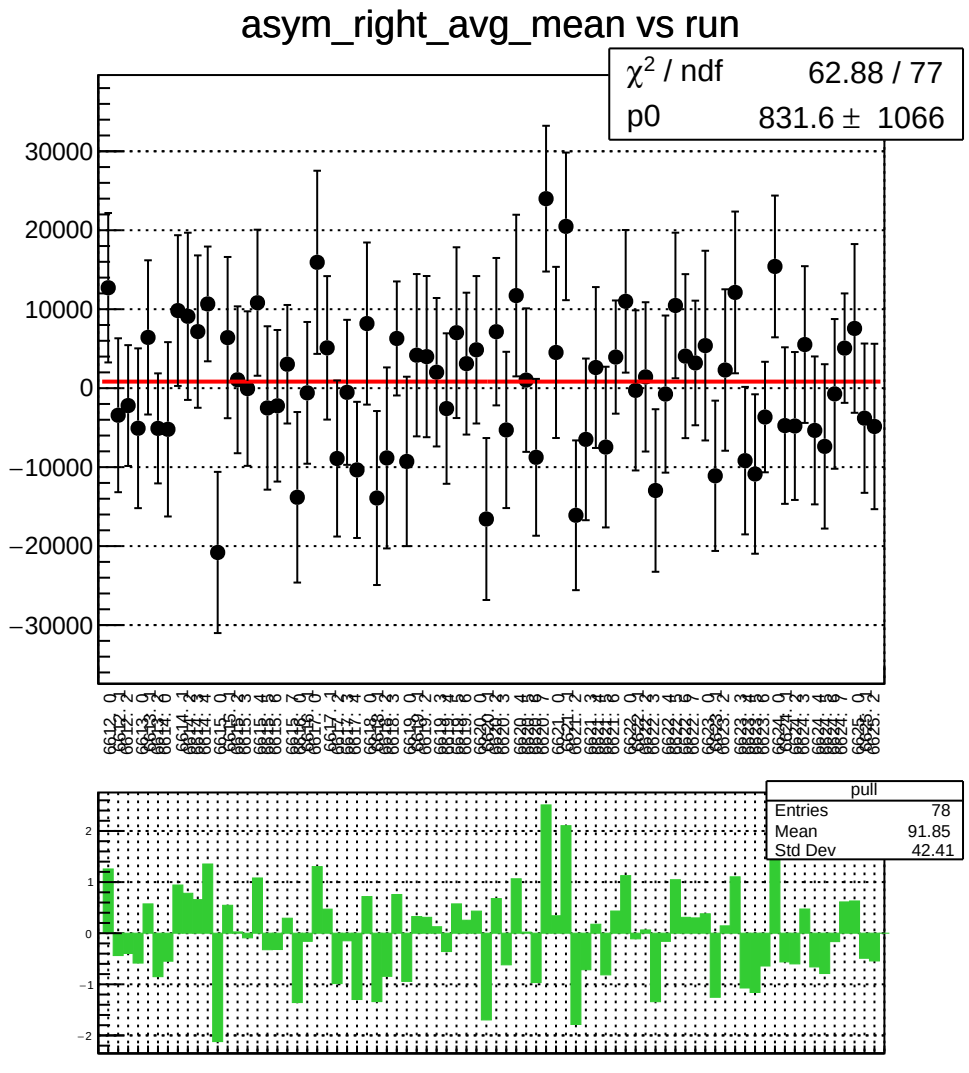

pull1D
Entries 78
Mean 0.001082
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

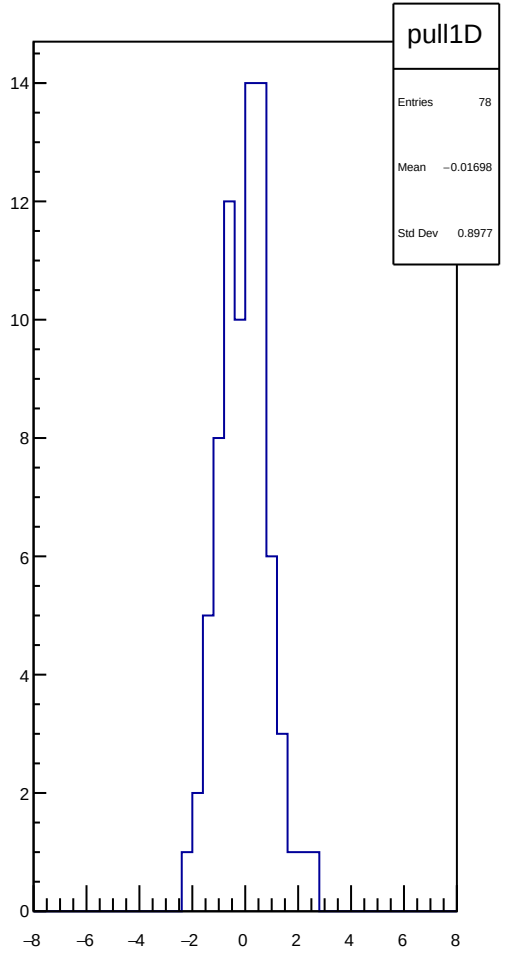

reg_asym_right_avg_rms vs run
χ² / ndf 166.3 / 77
p0 585.2 ± 0.4704
610
600
590
580
570

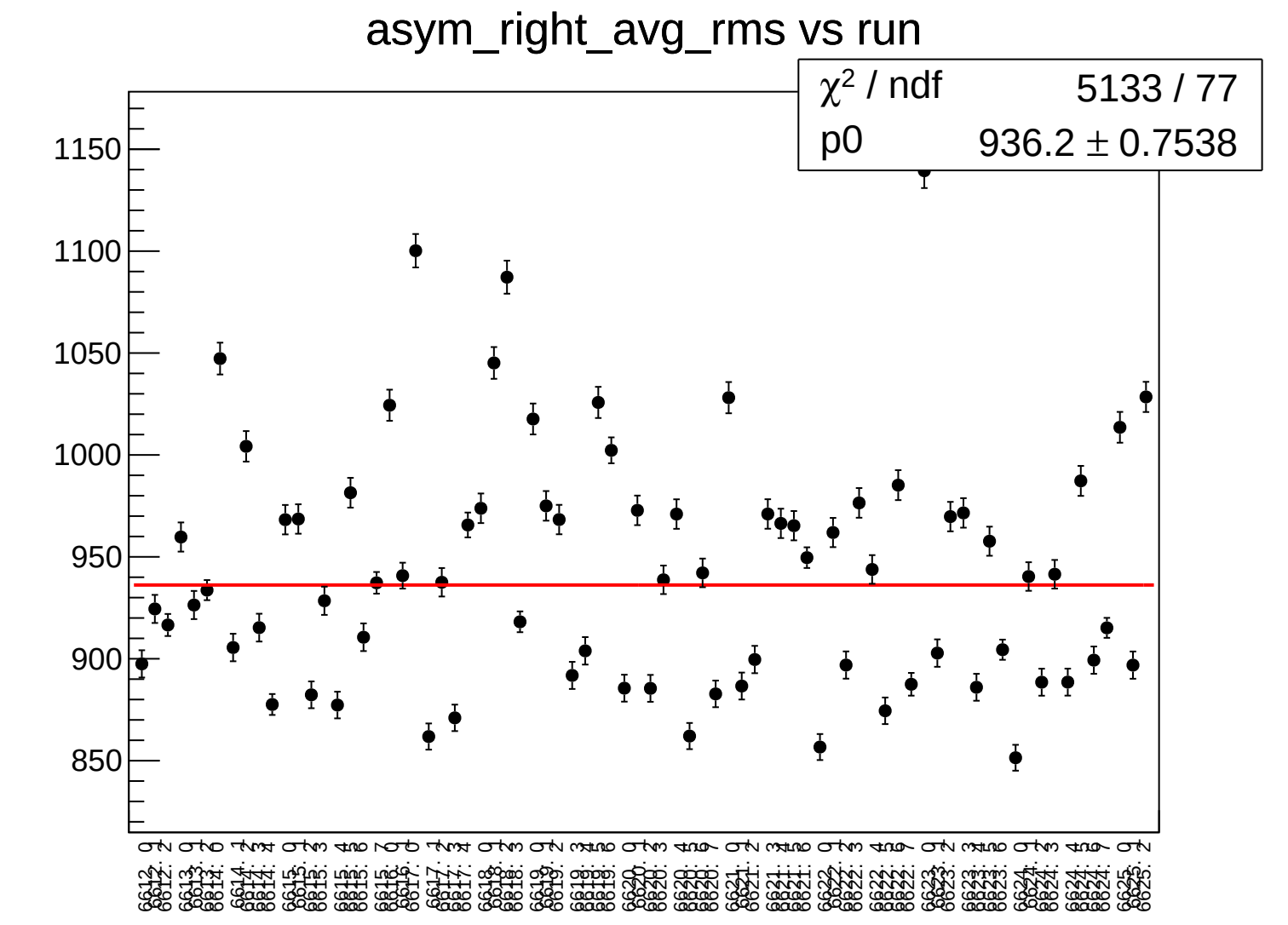

asym_right_avg_correction_mean vs run
χ² / ndf 74.87 / 77
p0 233.3 ± 827.9
pull
Entries 78
Mean 44.88
Std Dev 49.06

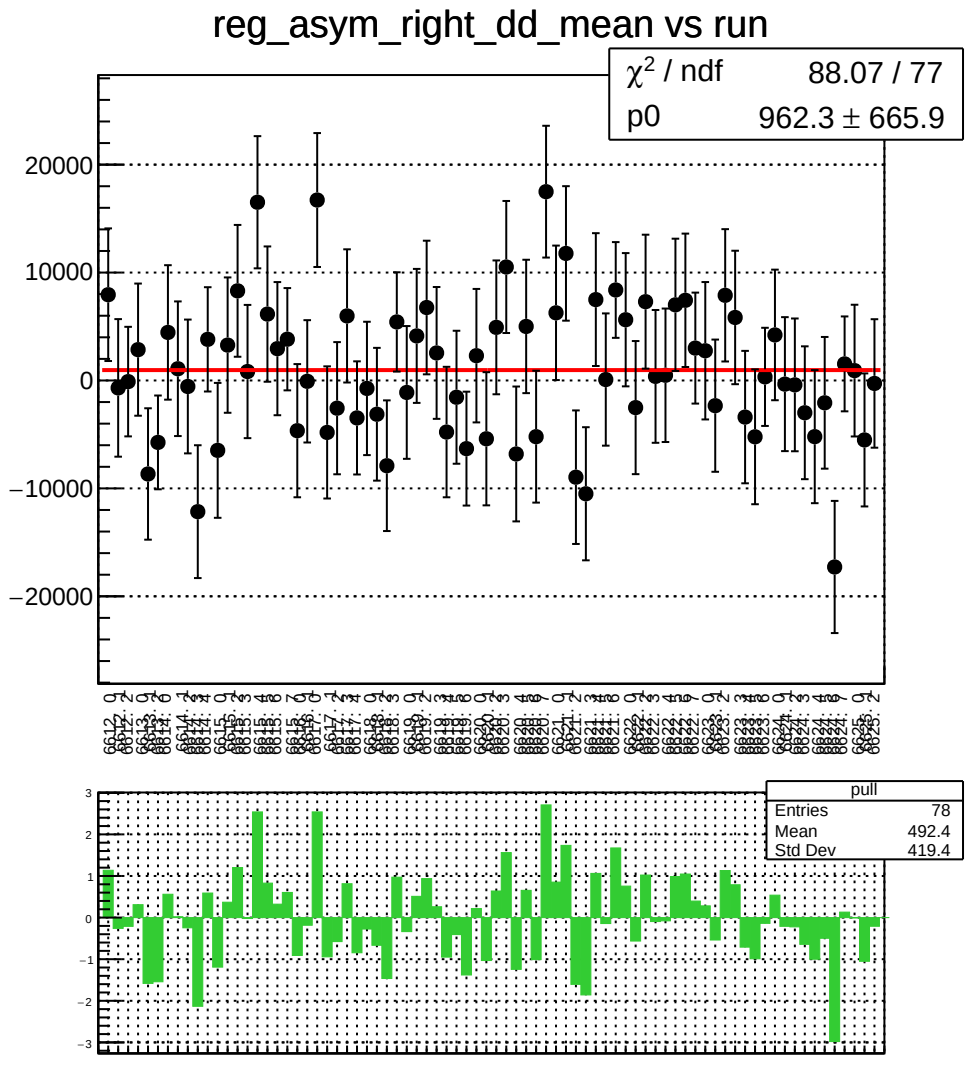

pull1D
Entries 78
Mean 0.02295
Std Dev 0.9794

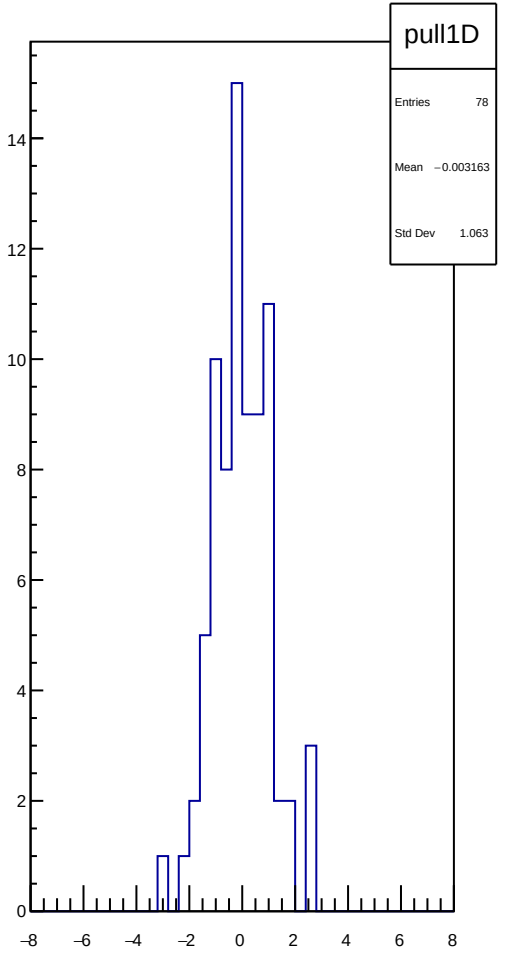

asym_right_avg_correction_rms vs run
χ² / ndf 1.263e+04 / 77
p0 725.2 ± 0.5854
1000
950
900
850
800
750
700
650
600

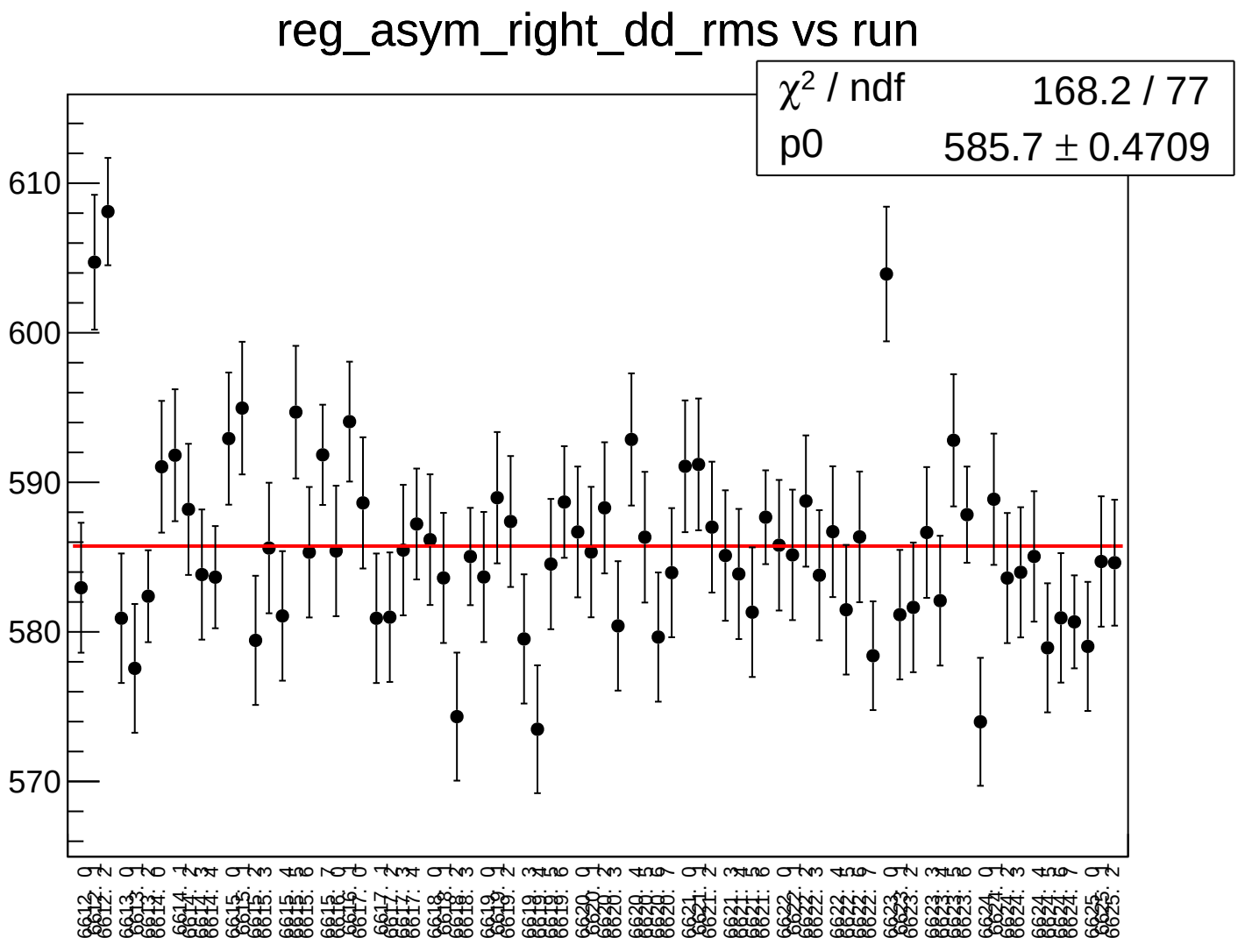

asym_right_avg_mean vs run
χ² / ndf 62.88 / 77
p0 831.6 ± 1066
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 91.85
Std Dev 42.41
2
1
0
−1
−2

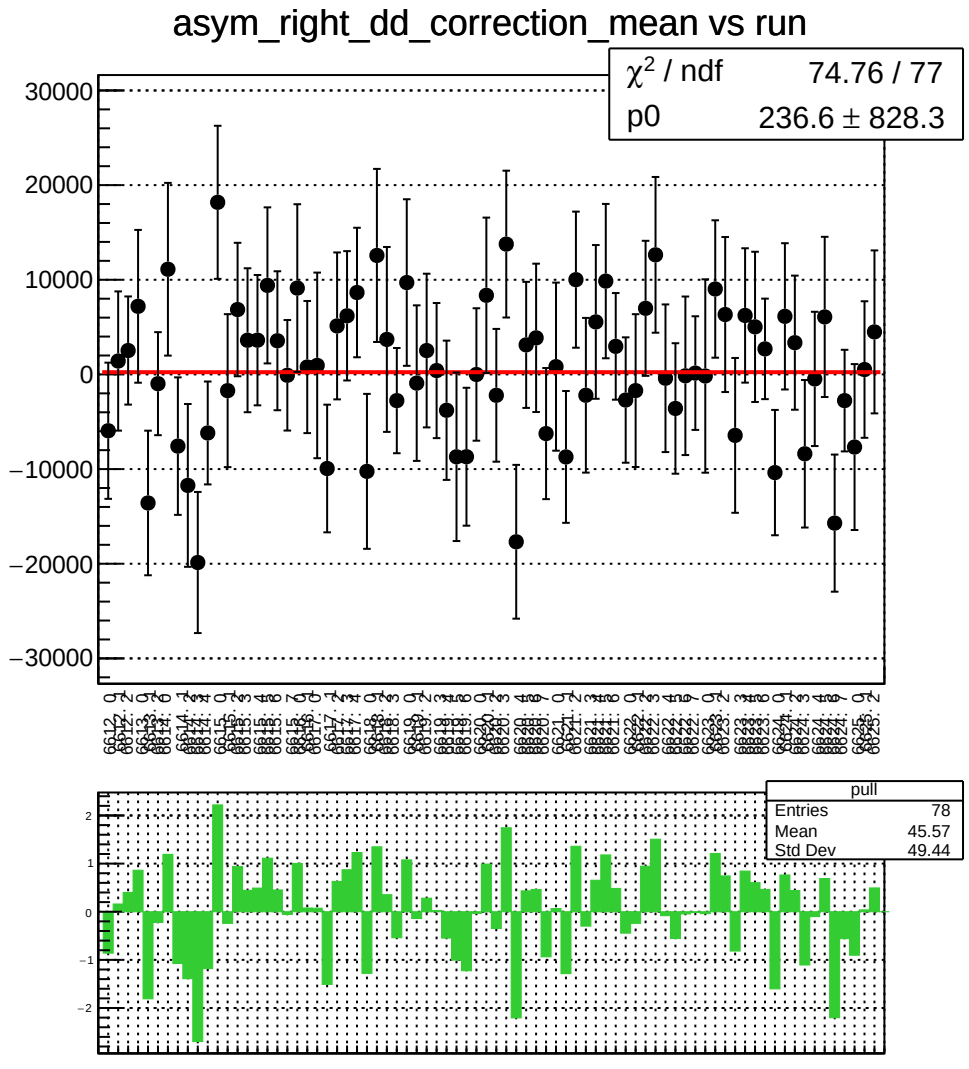

pull1D
Entries 78
Mean −0.01698
Std Dev 0.8977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

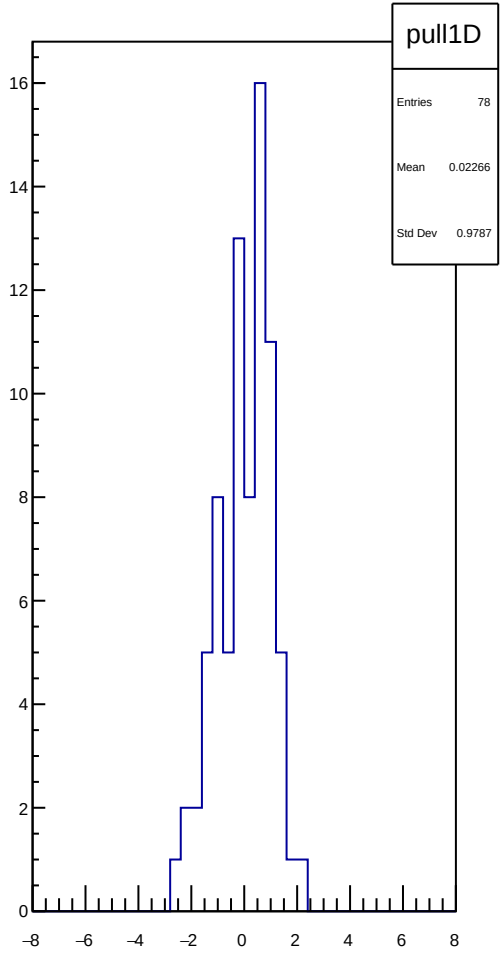

asym_right_avg_rms vs run
χ^2 / ndf 5133 / 77
p0 936.2 ± 0.7538
1150
1100
1050
1000
950
900
850

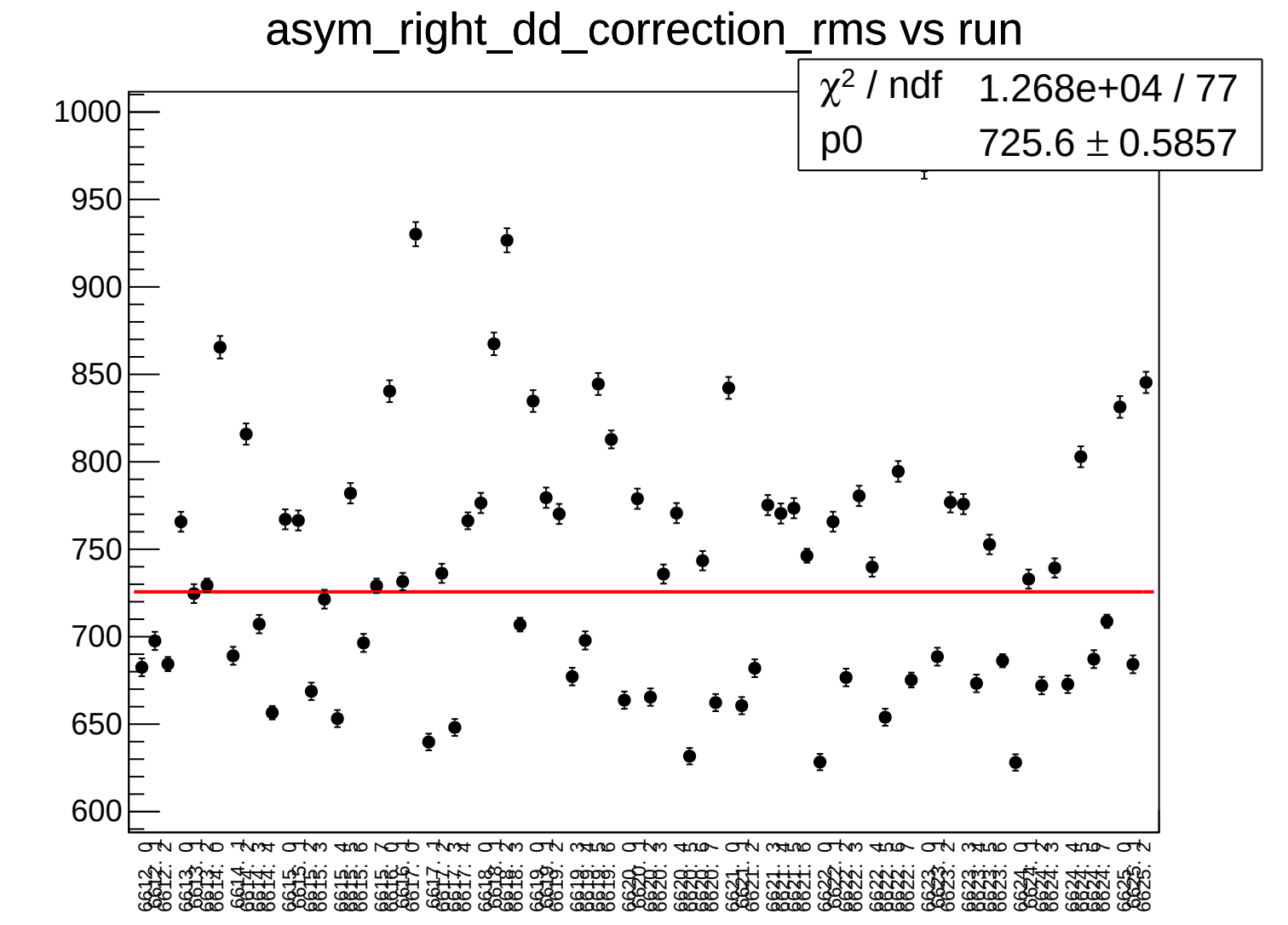

reg_asym_right_dd_mean vs run
χ² / ndf 88.07 / 77
p0 962.3 ± 665.9
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 492.4
Std Dev 419.4
3
2
1
0
−1
−2
−3

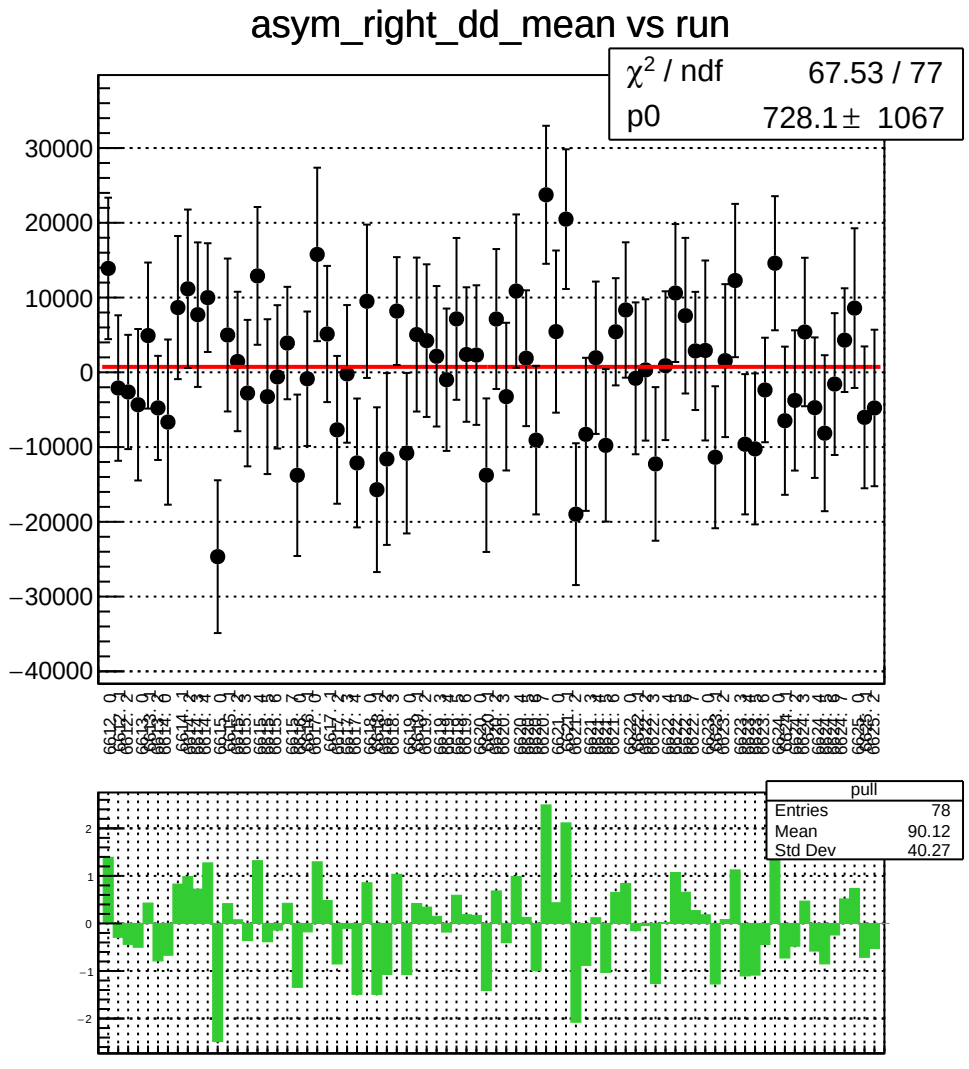

pull1D
Entries 78
Mean −0.003163
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

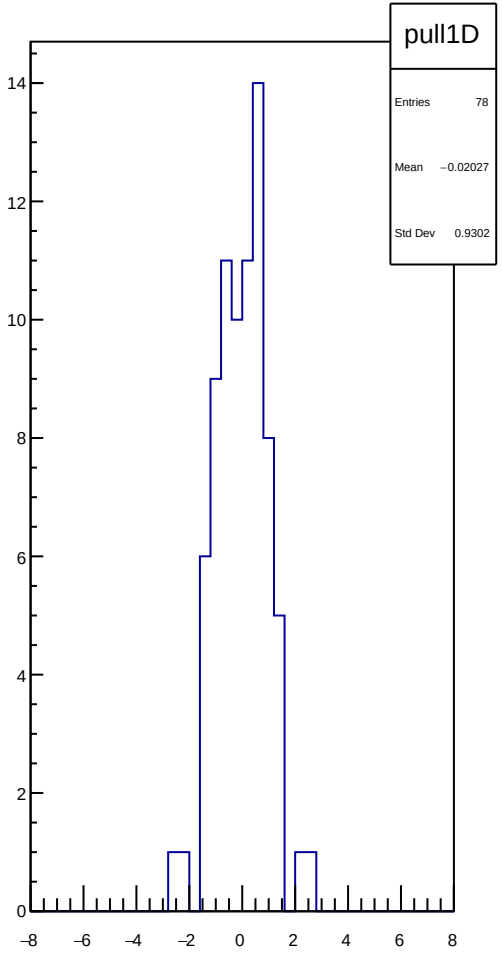

reg_asym_right_dd_rms vs run
χ² / ndf 168.2 / 77
p0 585.7 ± 0.4709
610
600
590
580
570

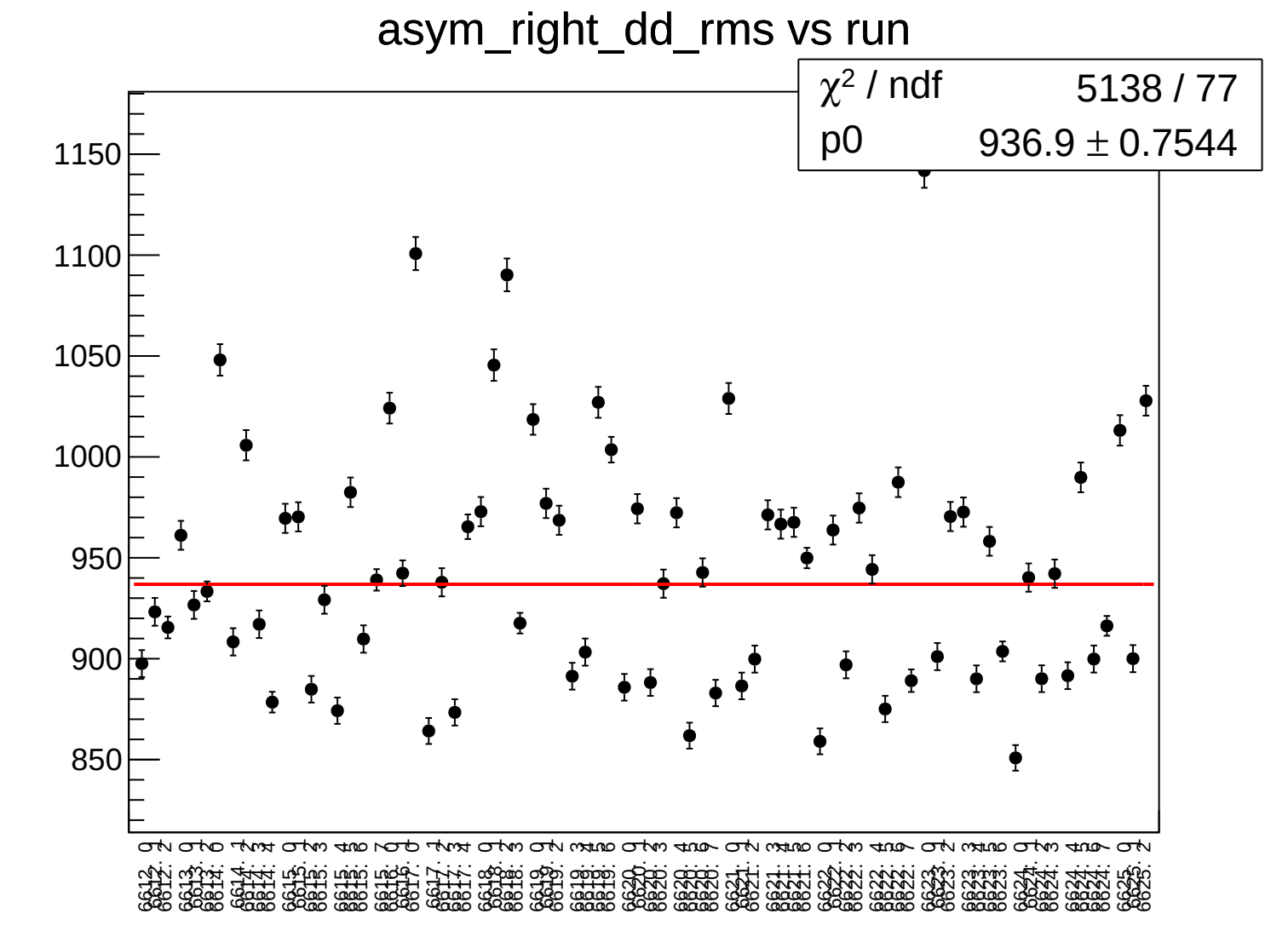

asym_right_dd_correction_mean vs run
χ² / ndf 74.76 / 77
p0 236.6 ± 828.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 45.57
Std Dev 49.44
2
1
0
−1
−2

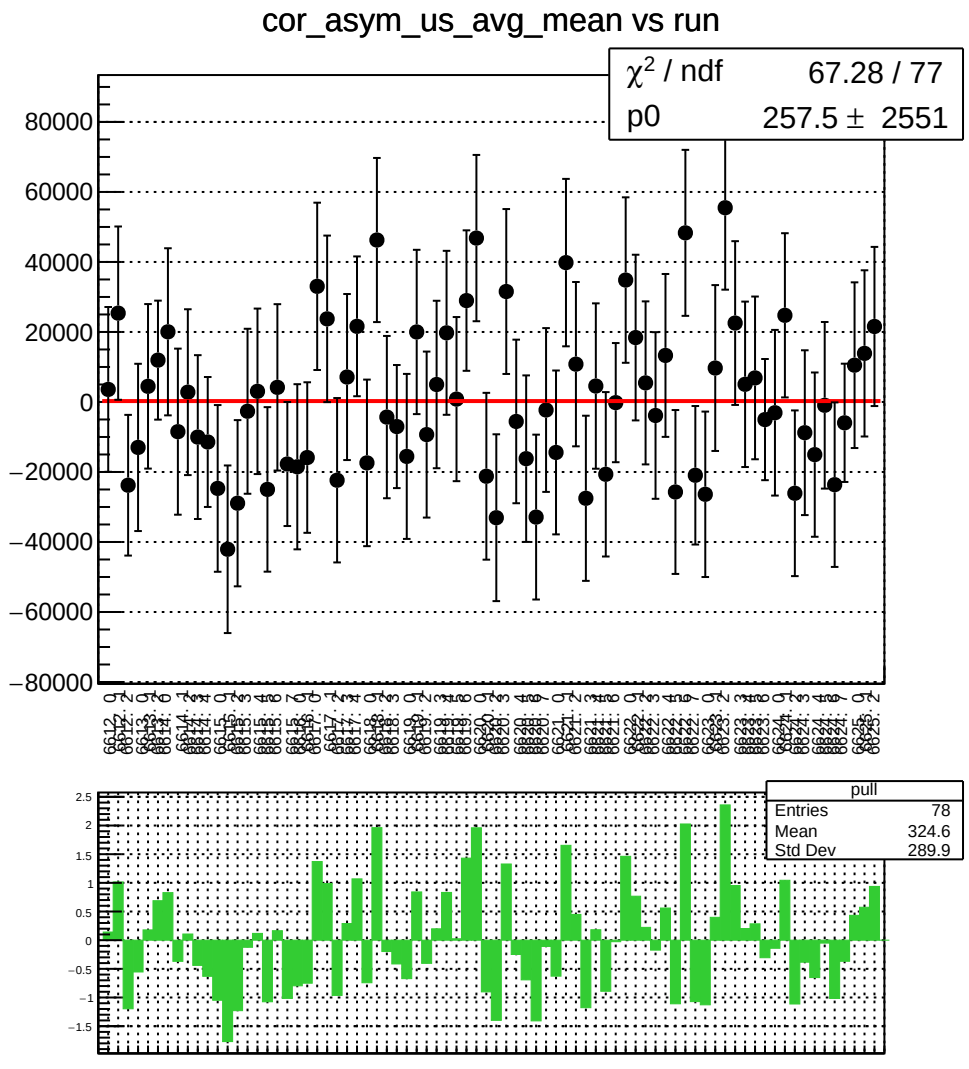

pull1D
Entries 78
Mean 0.02266
Std Dev 0.9787
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

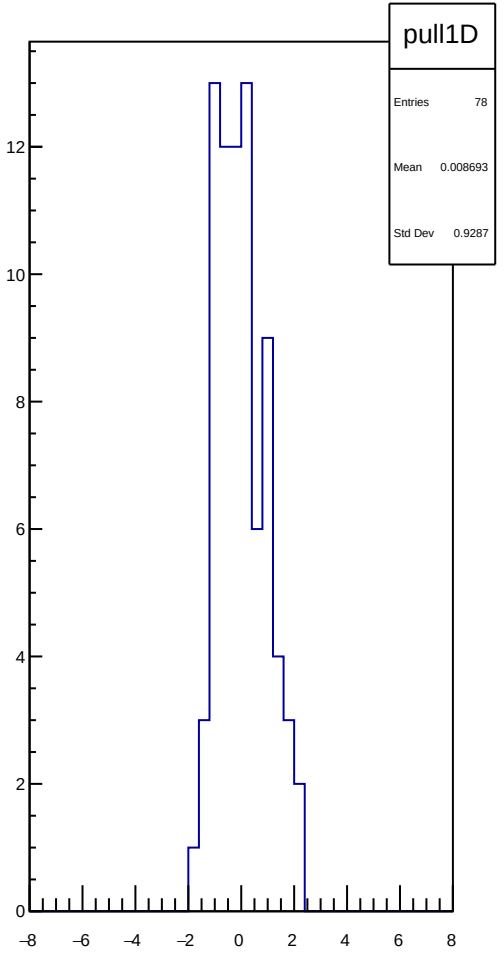

asym_right_dd_correction_rms vs run
χ² / ndf 1.268e+04 / 77
p0 725.6 ± 0.5857
1000
950
900
850
800
750
700
650
600

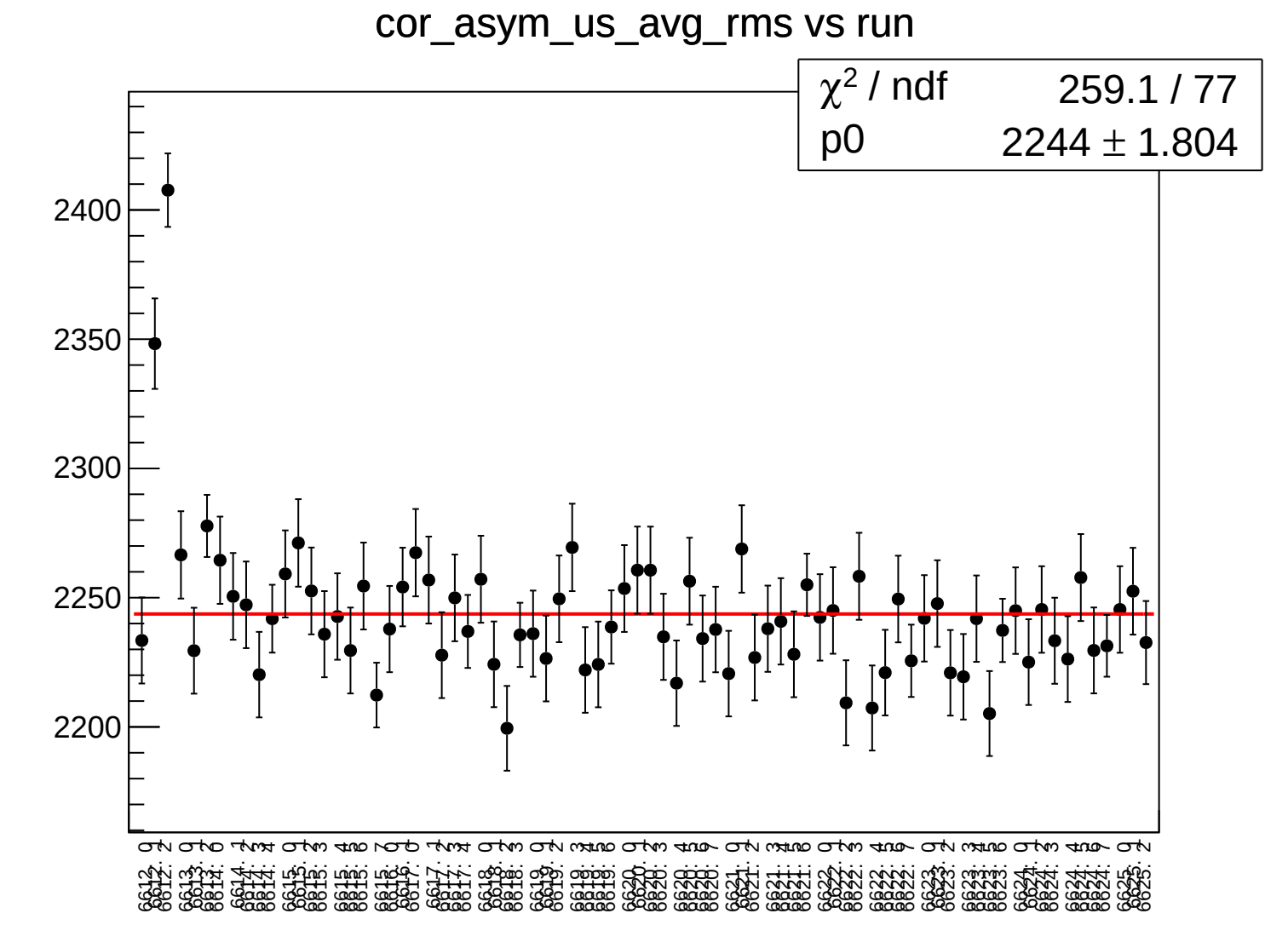

asym_right_dd_mean vs run
χ² / ndf 67.53 / 77
p0 728.1 ± 1067
pull
Entries 78
Mean 90.12
Std Dev 40.27

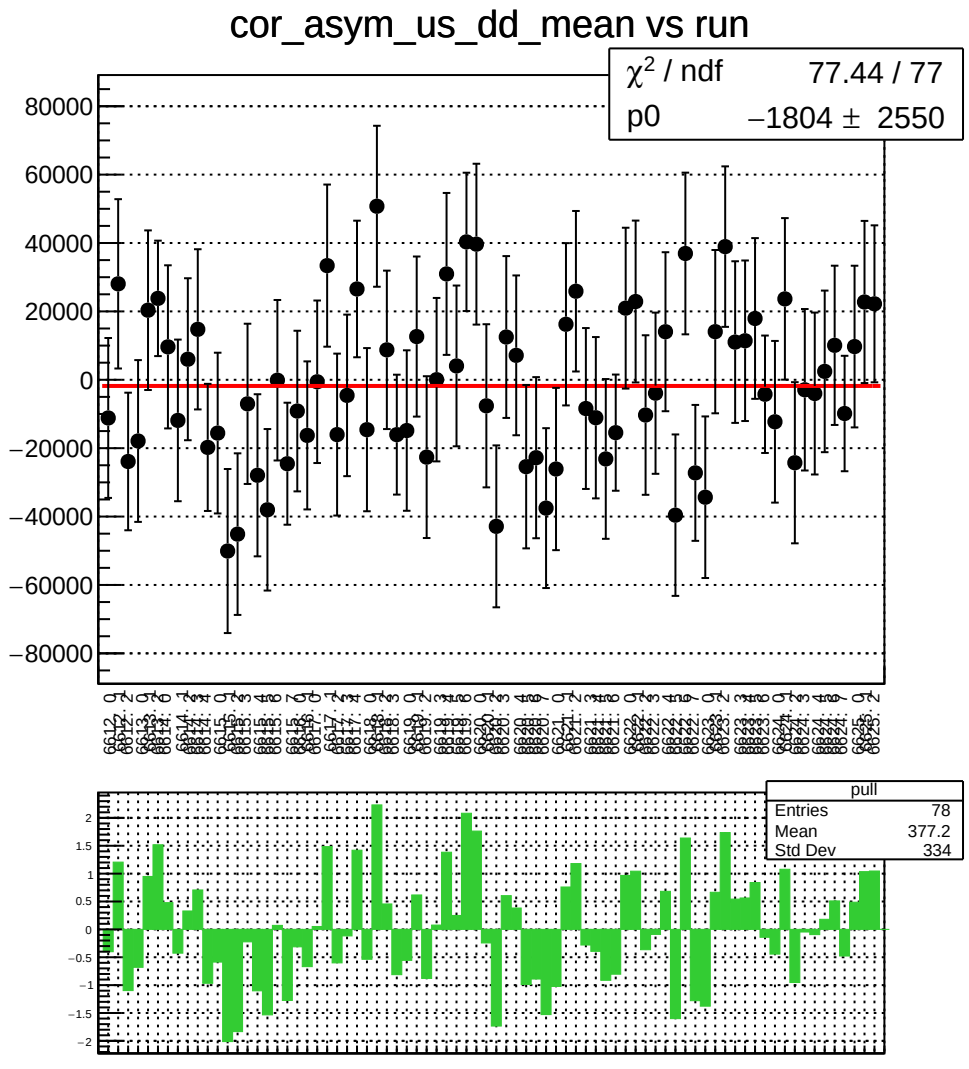

pull1D
Entries 78
Mean −0.02027
Std Dev 0.9302

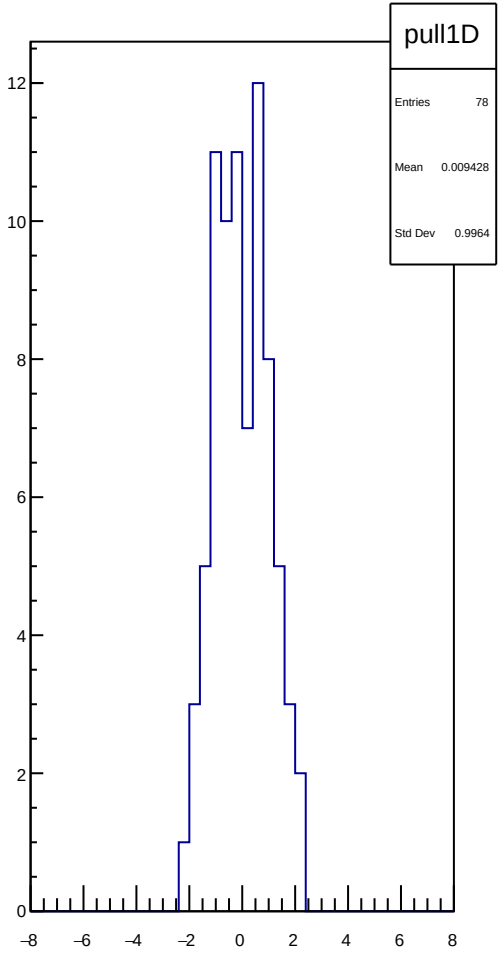

asym_right_dd_rms vs run
χ^2 / ndf 5138 / 77
p0 936.9 ± 0.7544
1150
1100
1050
1000
950
900
850

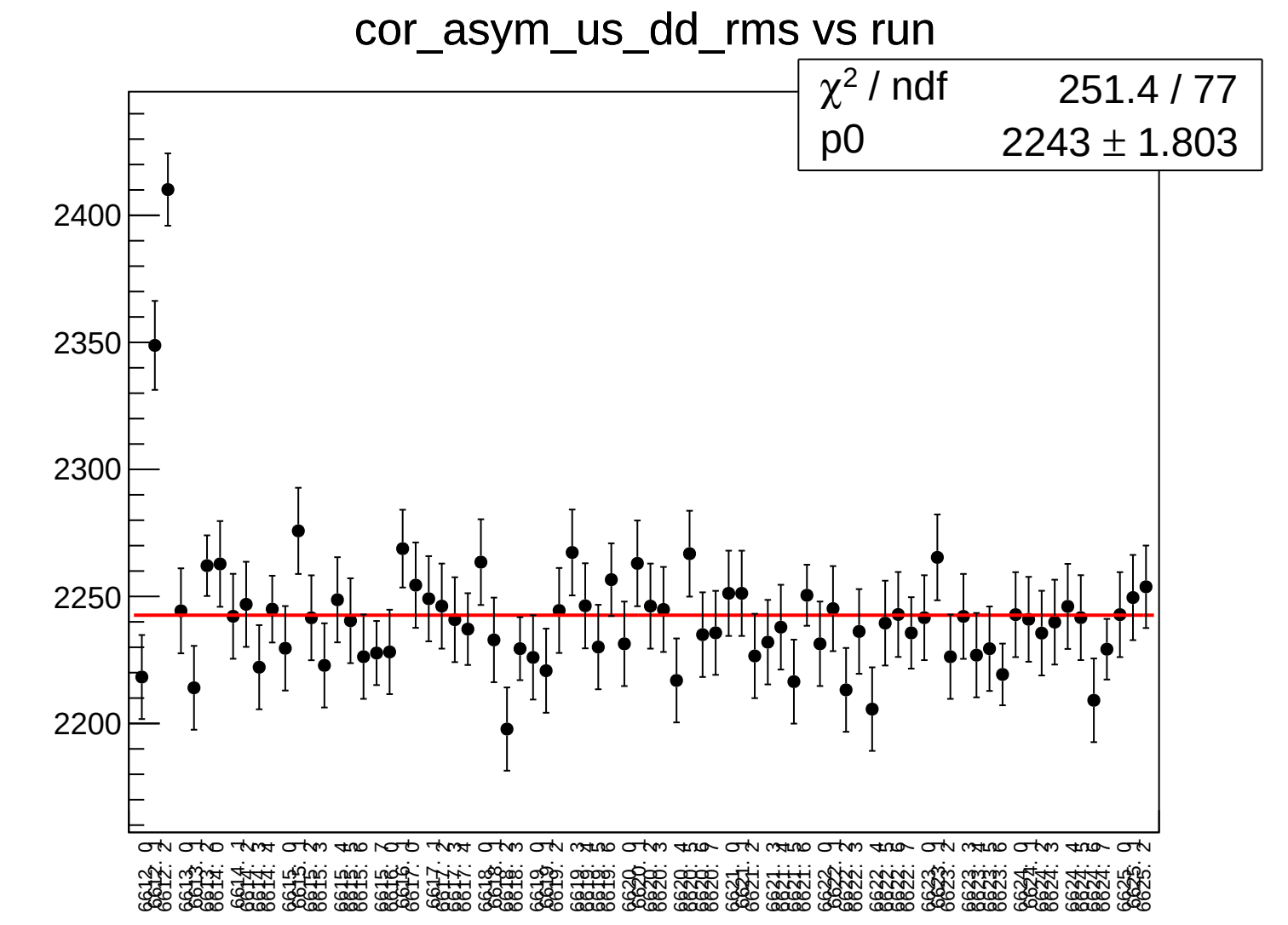

cor_asym_us_avg_mean vs run
χ² / ndf 67.28 / 77
p0 257.5 ± 2551
pull
Entries 78
Mean 324.6
Std Dev 289.9

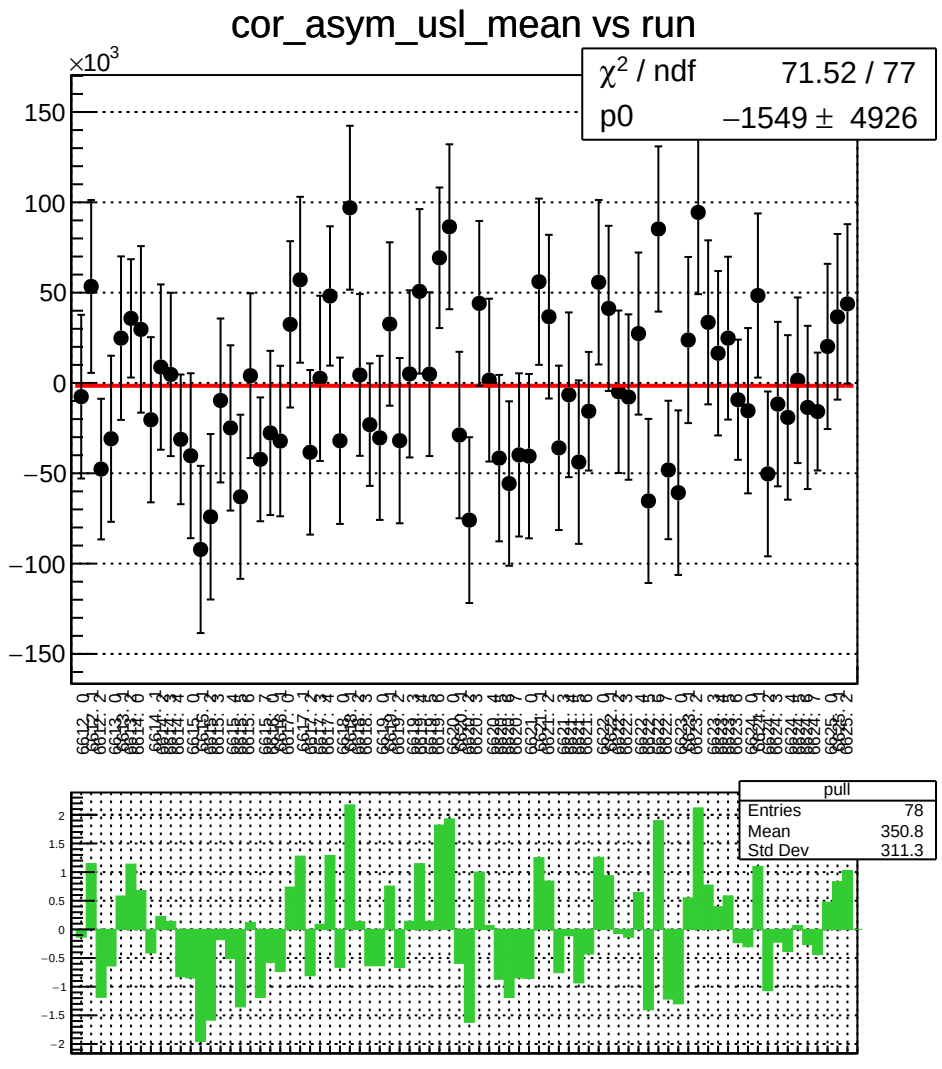

pull1D
Entries 78
Mean 0.008693
Std Dev 0.9287

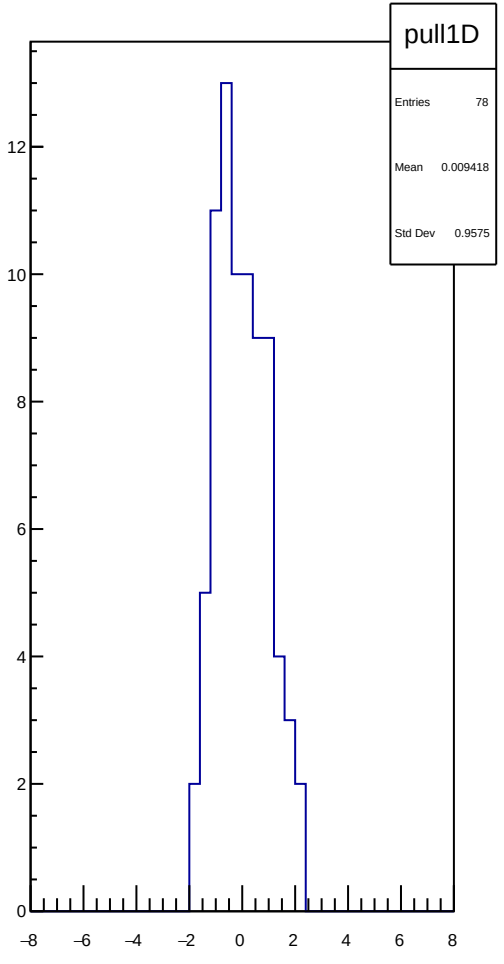

cor_asym_us_avg_rms vs run
χ² / ndf 259.1 / 77
p0 2244 ± 1.804
2400
2350
2300
2250
2200

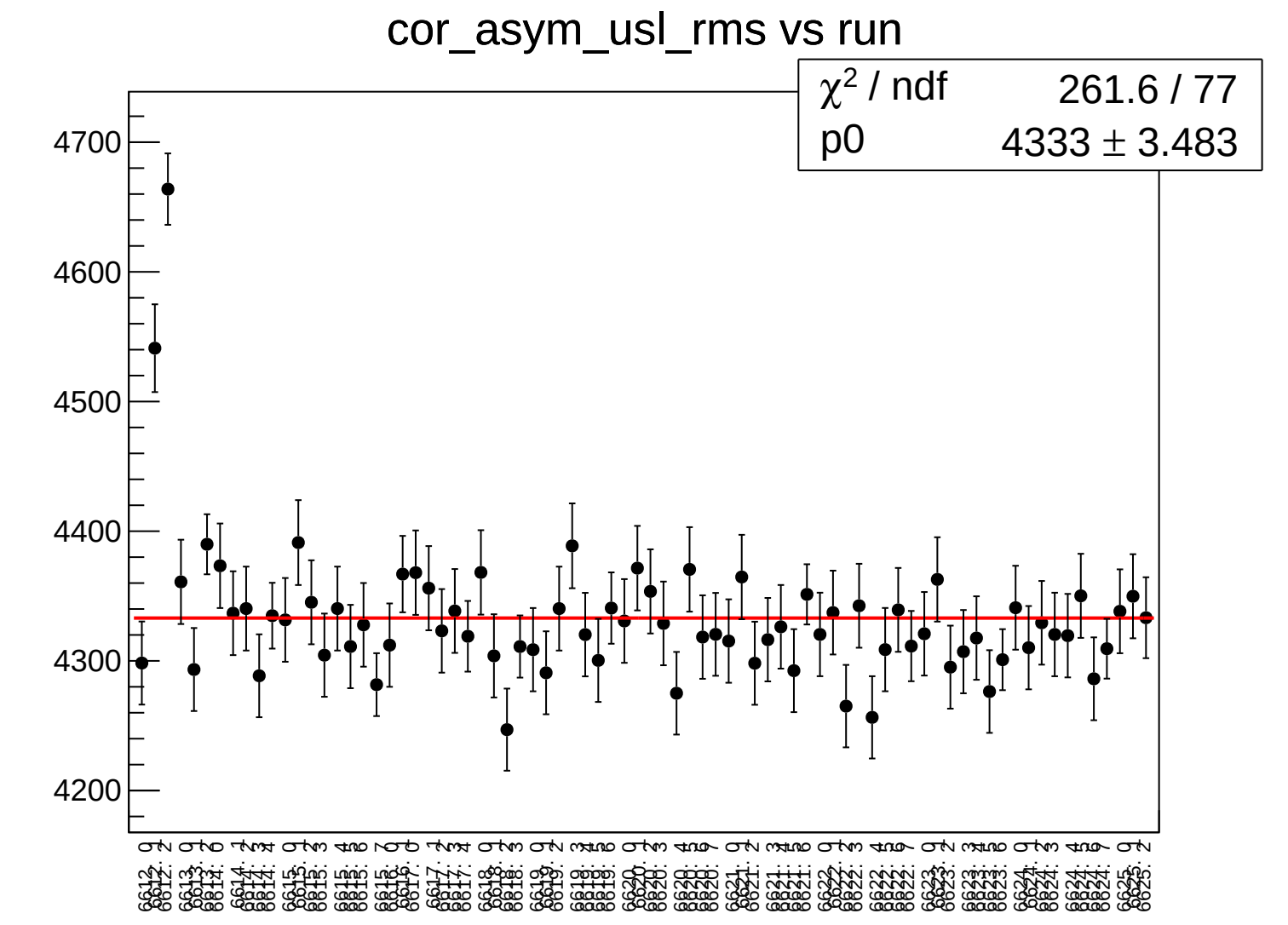

cor_asym_us_dd_mean vs run
χ² / ndf 77.44 / 77
p0 −1804 ± 2550
pull
Entries 78
Mean 377.2
Std Dev 334

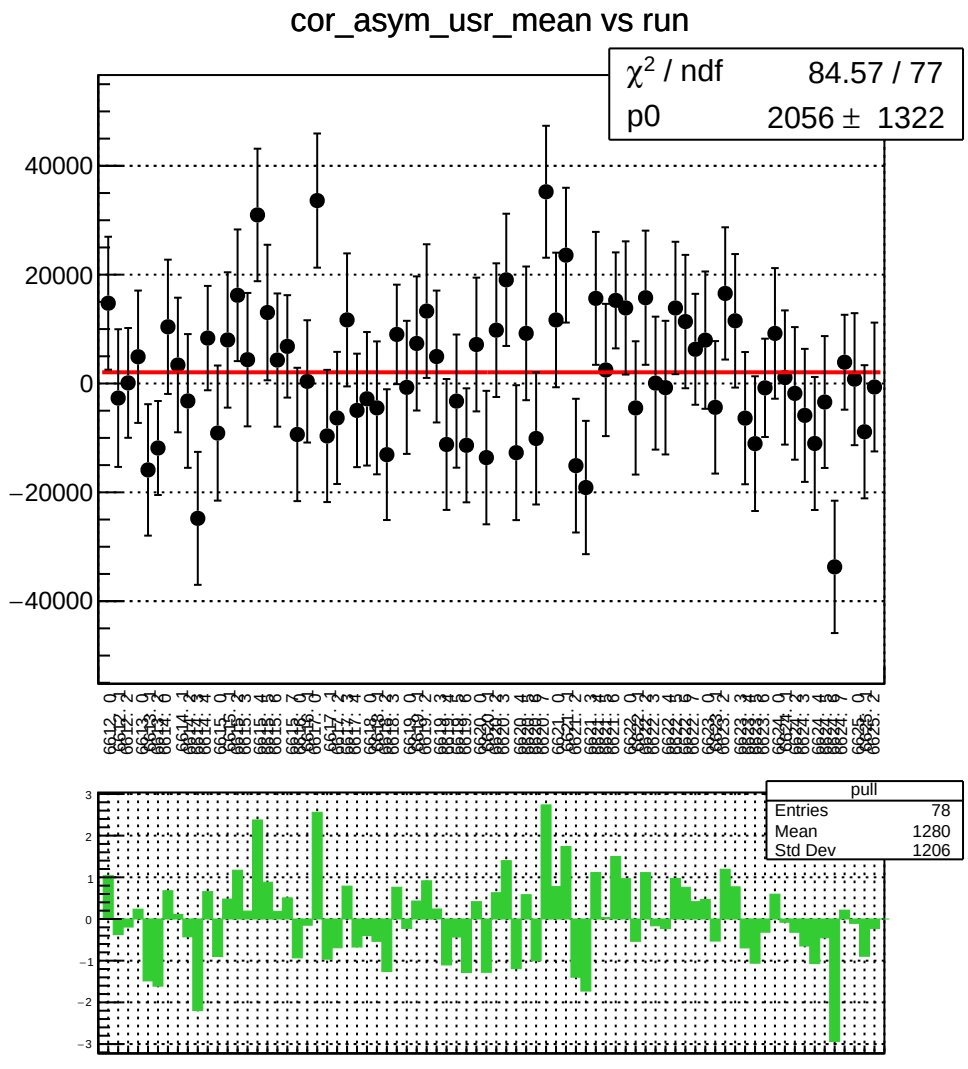

pull1D
Entries 78
Mean 0.009428
Std Dev 0.9964

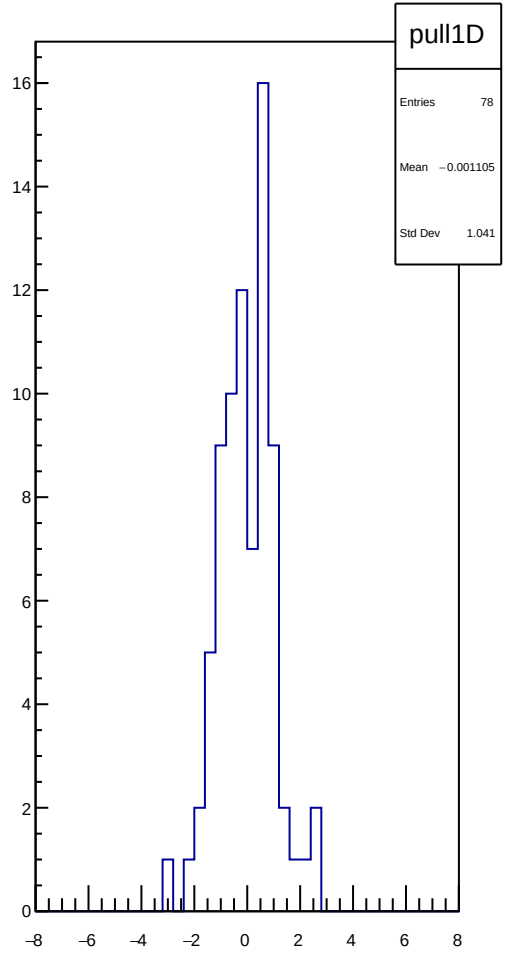

cor_asym_us_dd_rms vs run
χ^2 / ndf 251.4 / 77
p0 2243 ± 1.803
2400
2350
2300
2250
2200

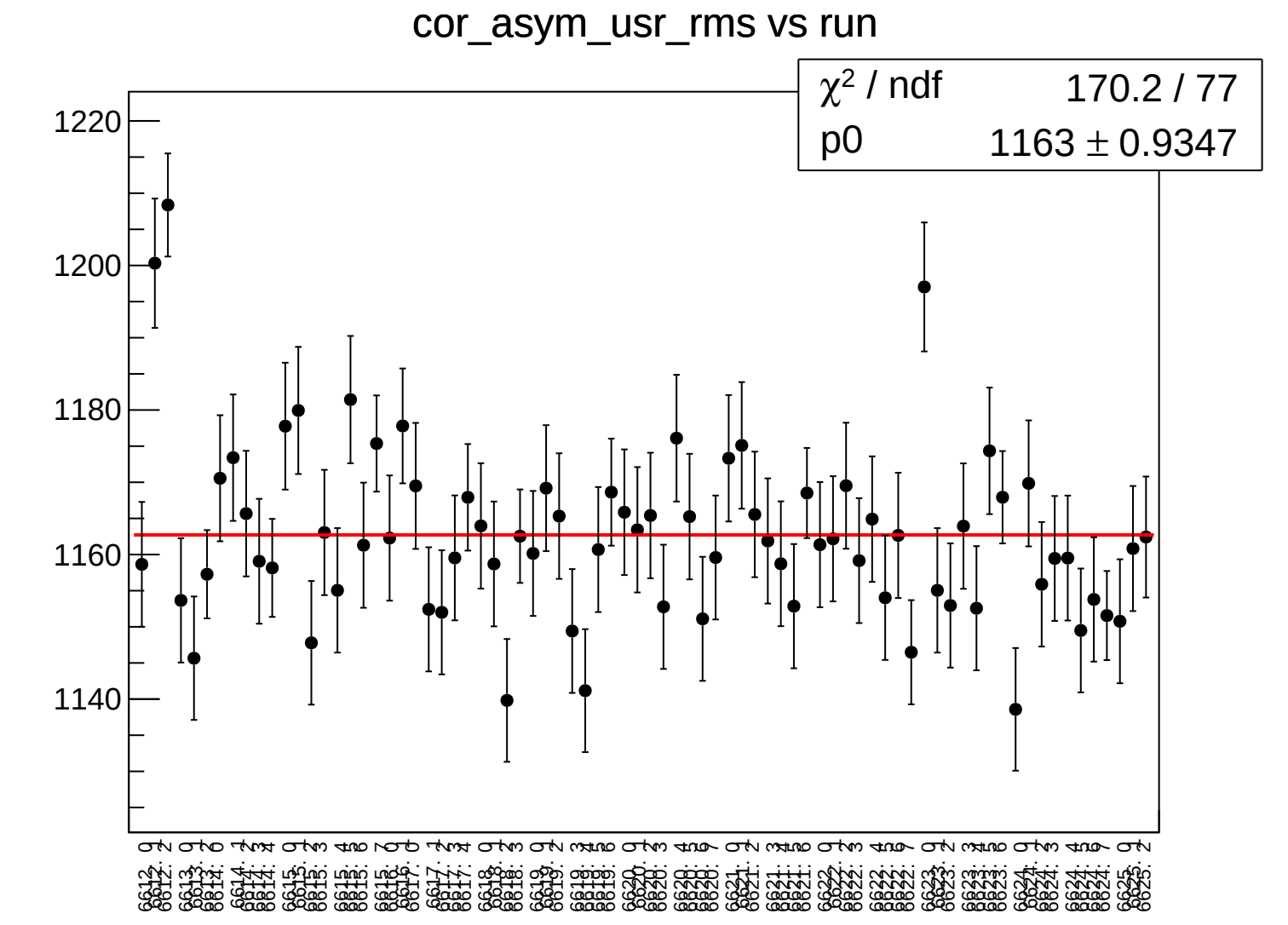

cor_asym_usl_mean vs run
×10^3
χ² / ndf 71.52 / 77
p0 −1549 ± 4926
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 350.8
Std Dev 311.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

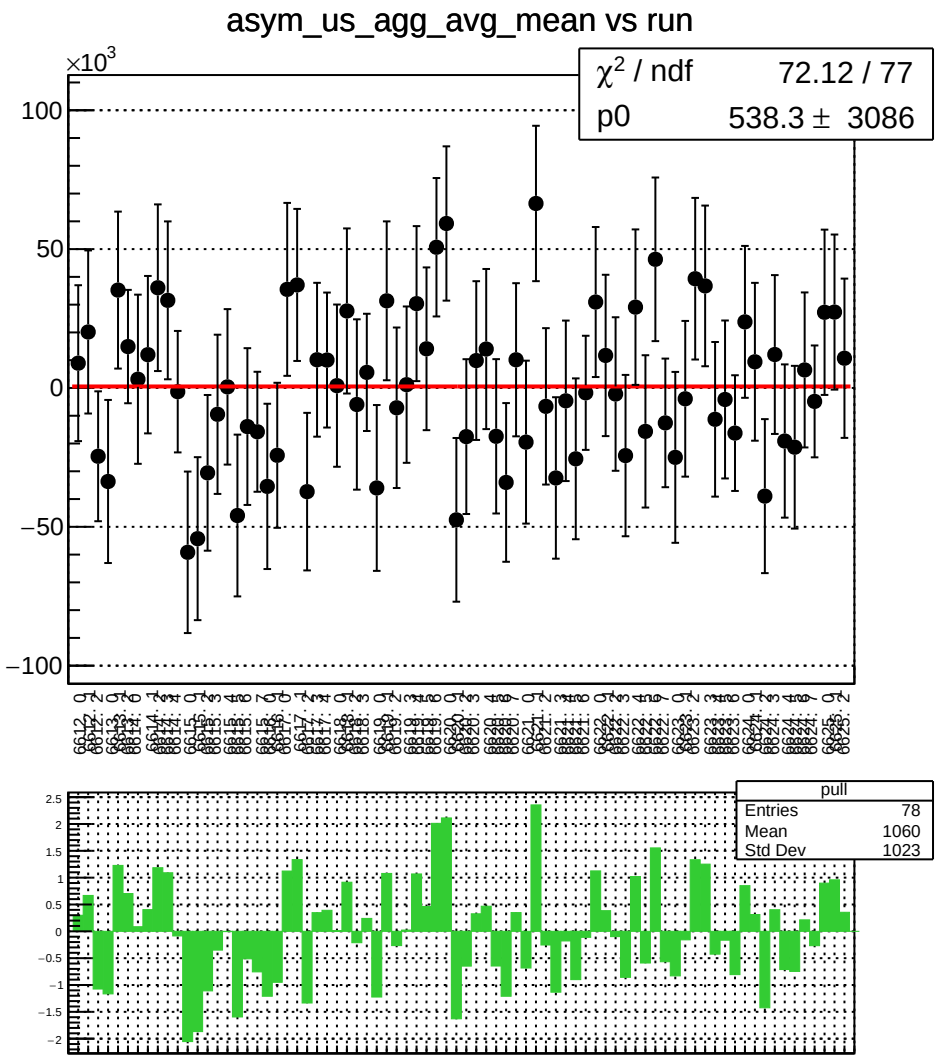

pull1D
Entries 78
Mean 0.009418
Std Dev 0.9575
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

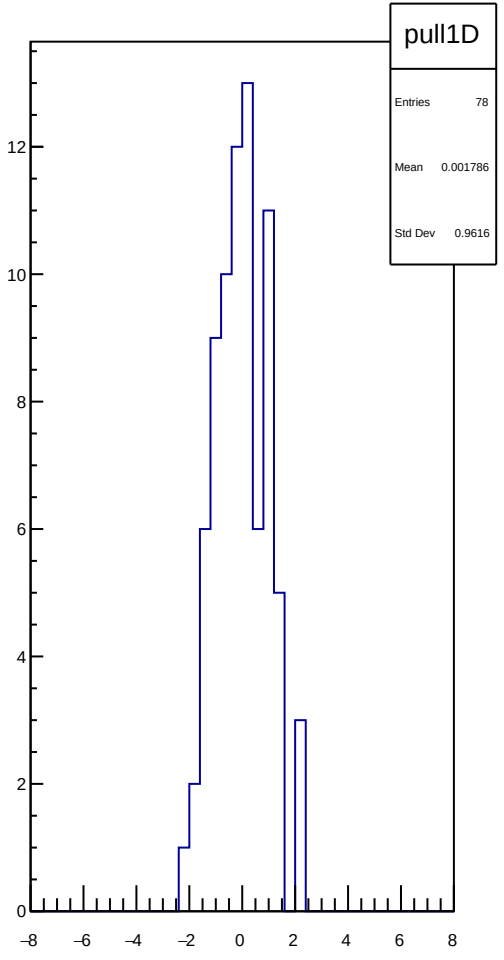

cor_asym_usl_rms vs run
χ² / ndf 261.6 / 77
p0 4333 ± 3.483
4700
4600
4500
4400
4300
4200

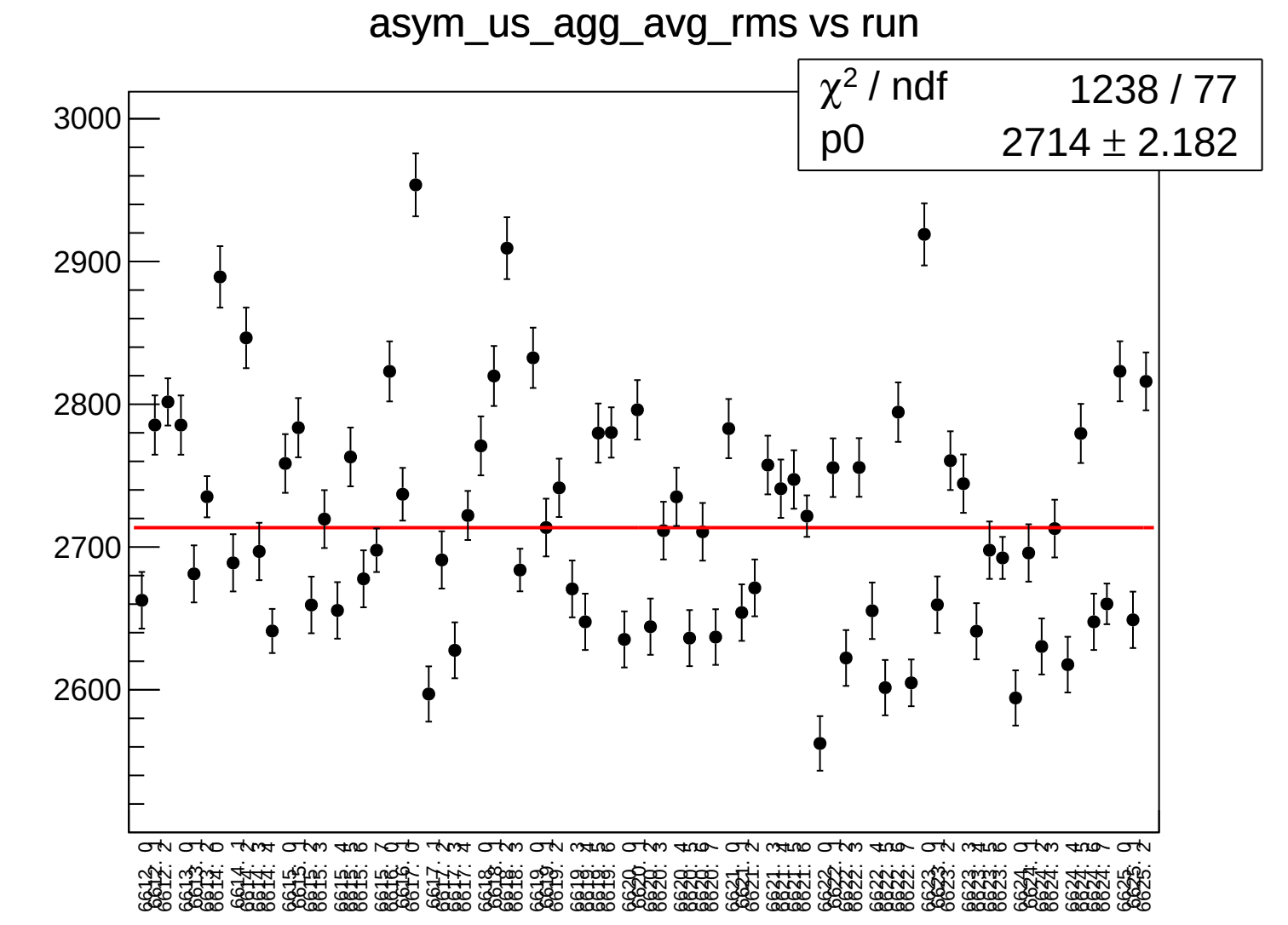

cor_asym_usr_mean vs run
χ² / ndf 84.57 / 77
p0 2056 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 1280
Std Dev 1206
3
2
1
0
−1
−2
−3

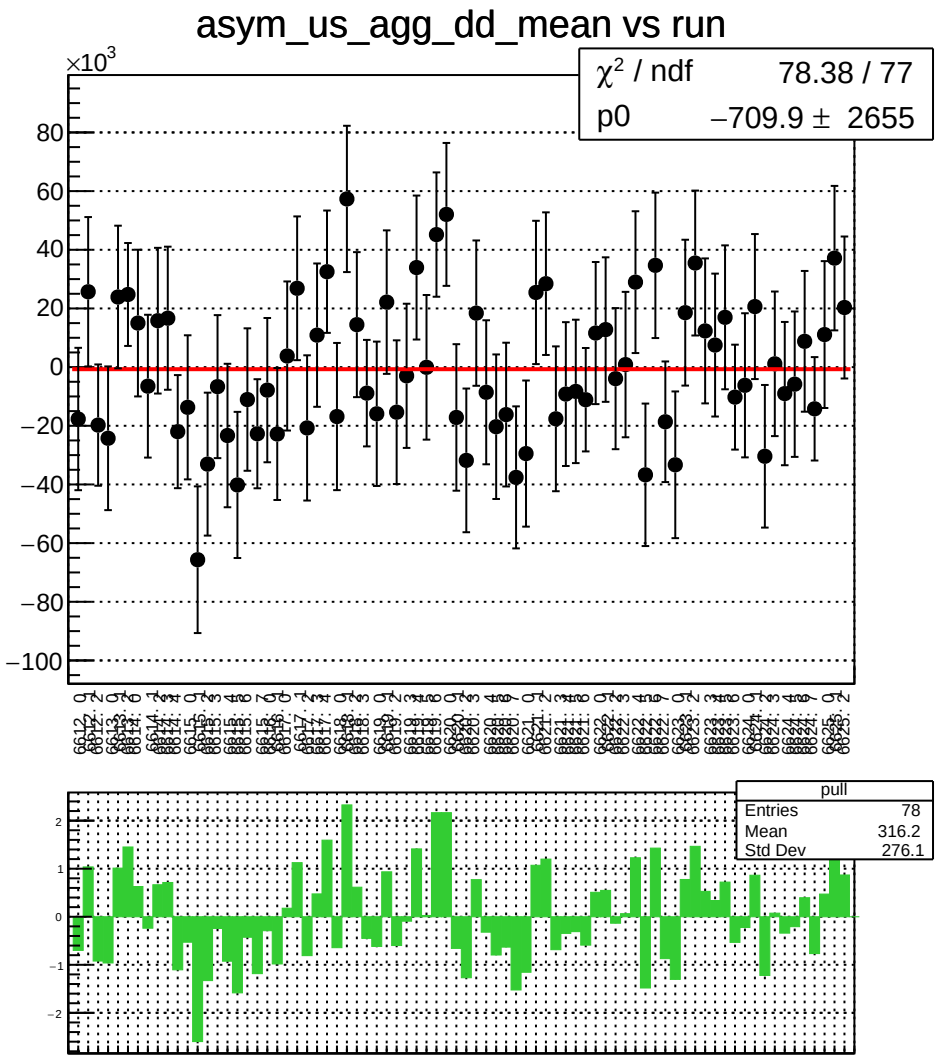

pull1D
Entries 78
Mean −0.001105
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

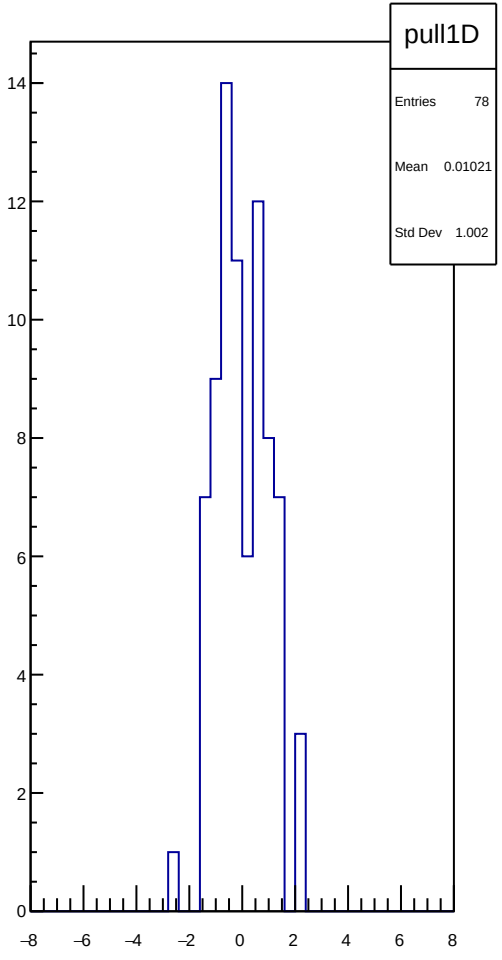

cor_asym_usr_rms vs run
χ² / ndf 170.2 / 77
p0 1163 ± 0.9347
1220
1200
1180
1160
1140

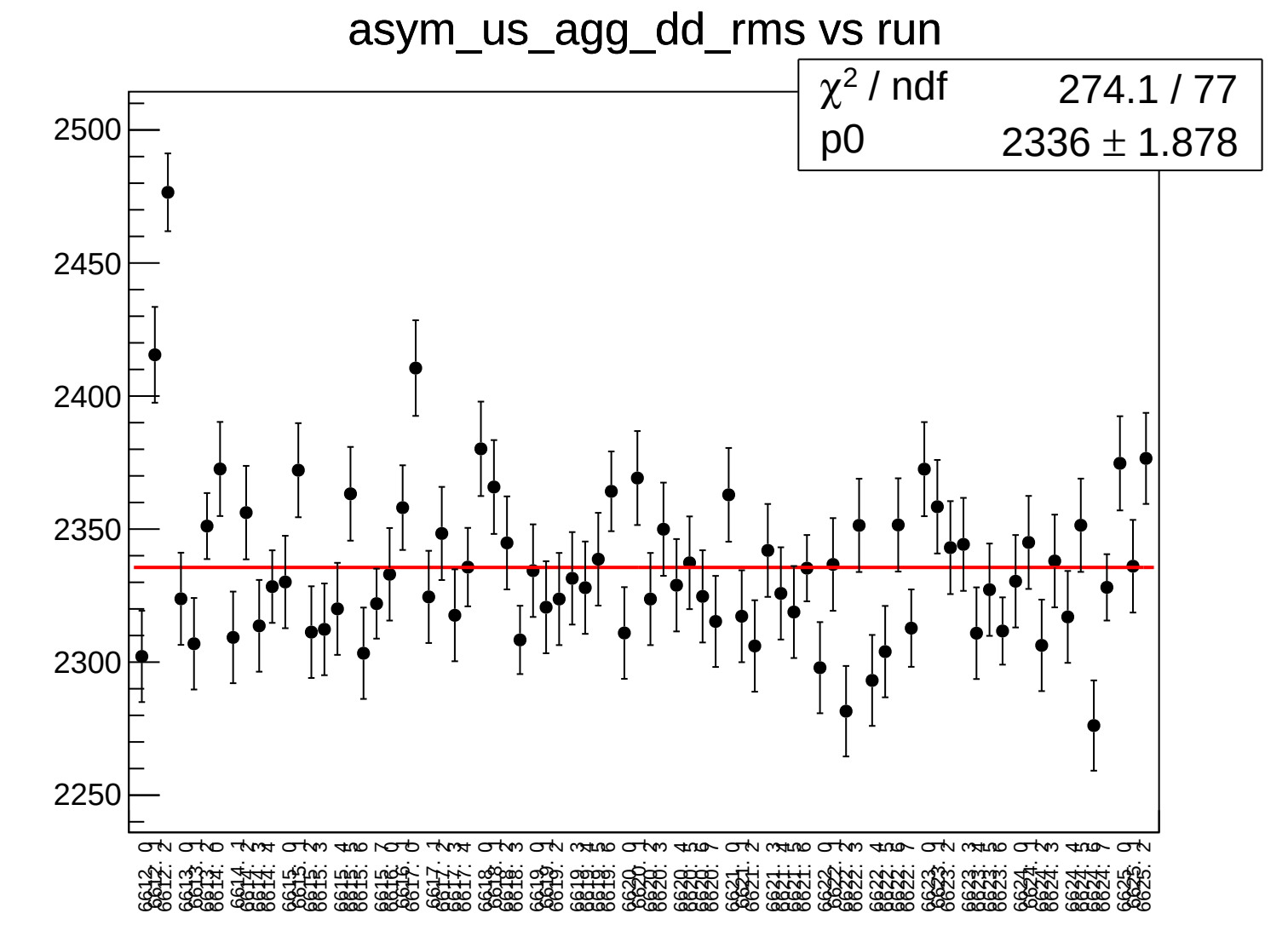

asym_us_agg_avg_mean vs run
×10^3
χ² / ndf 72.12 / 77
p0 538.3 ± 3086
pull
Entries 78
Mean 1060
Std Dev 1023

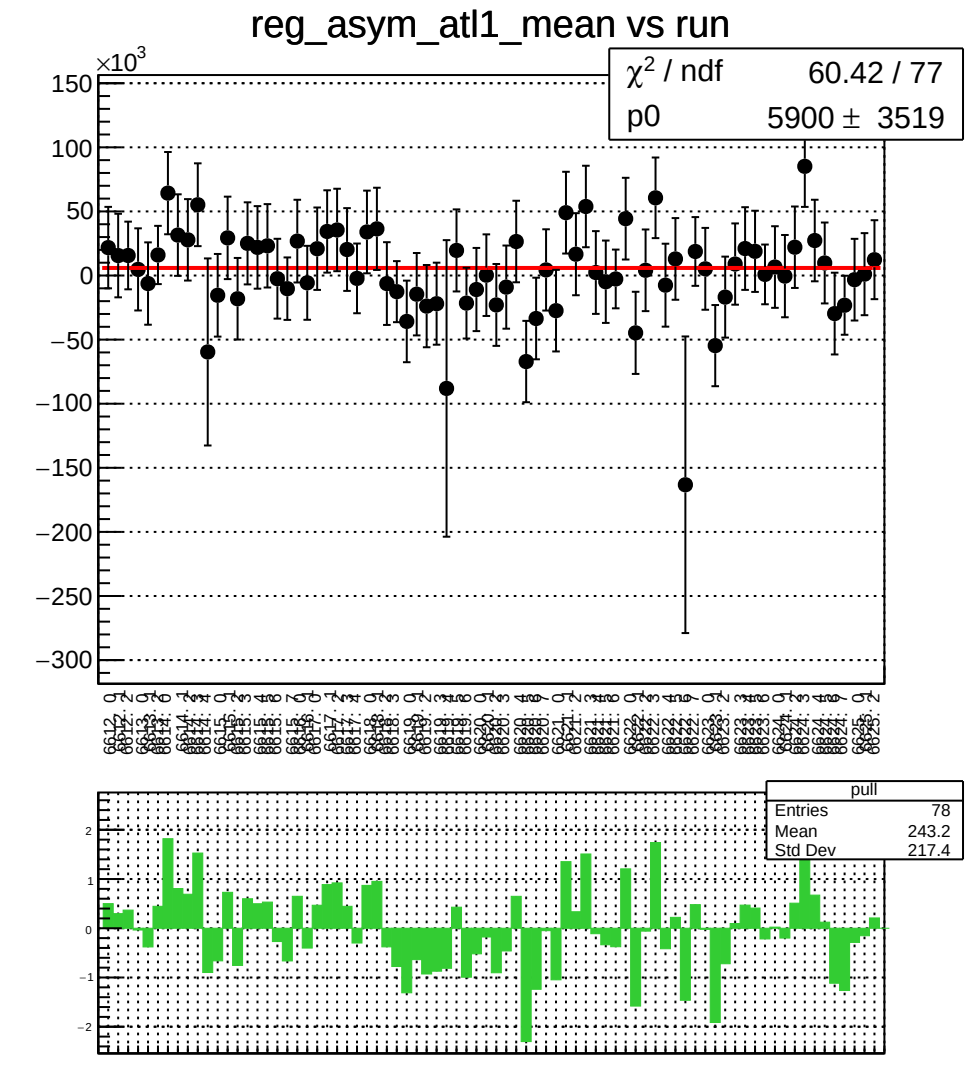

pull1D
Entries 78
Mean 0.001786
Std Dev 0.9616

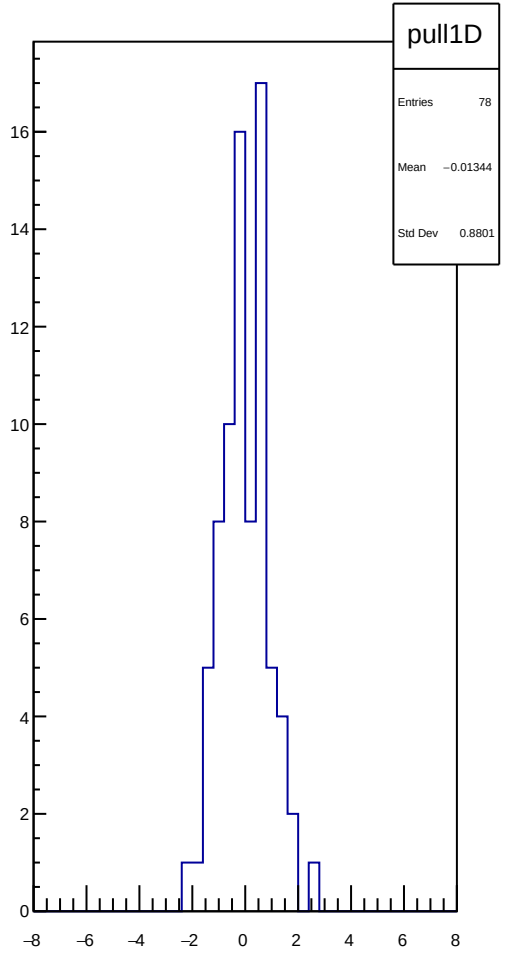

asym_us_agg_avg_rms vs run
χ² / ndf 1238 / 77
p0 2714 ± 2.182
3000
2900
2800
2700
2600

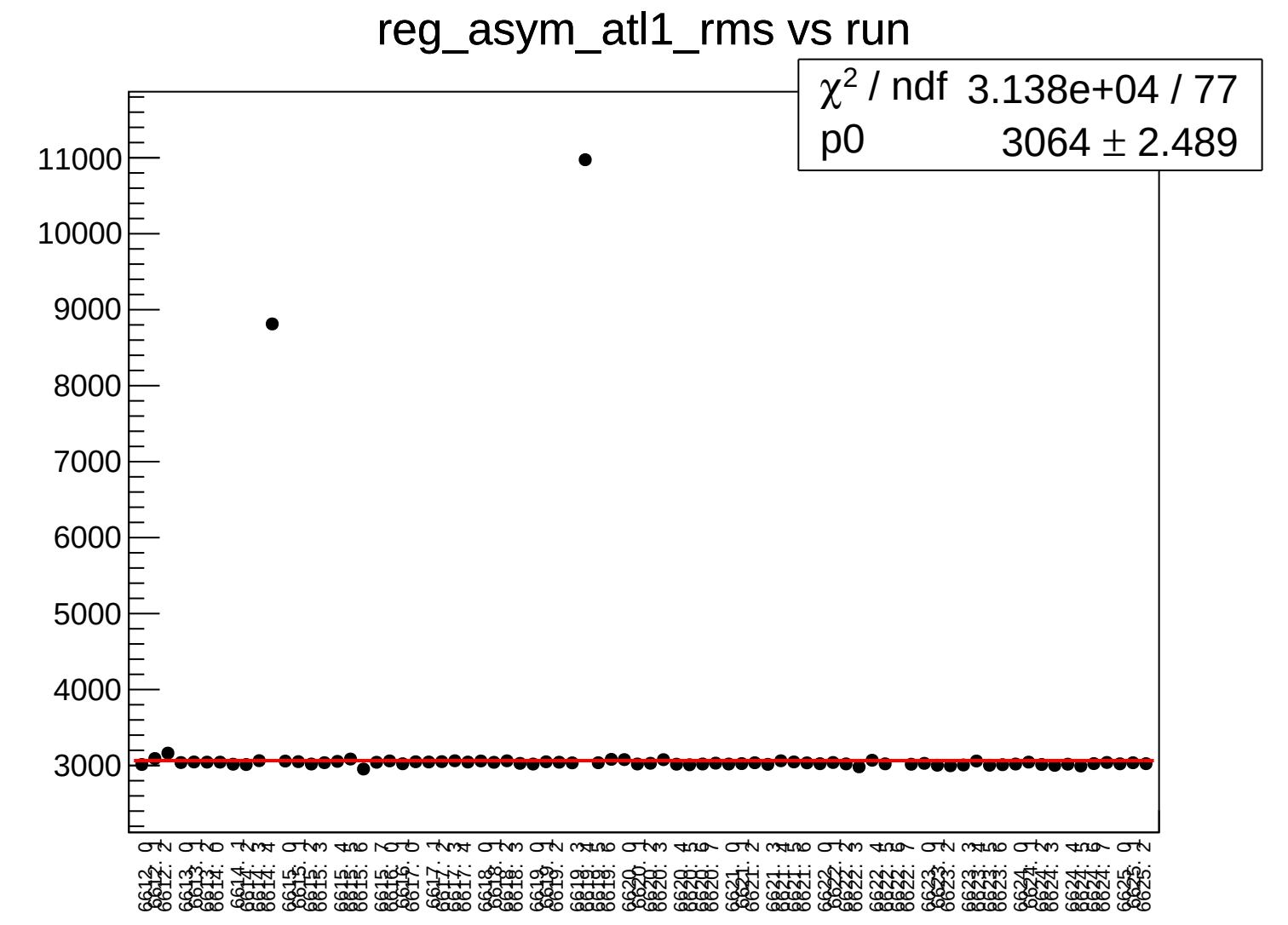

asym_us_agg_dd_mean vs run
×10^3
χ² / ndf 78.38 / 77
p0 −709.9 ± 2655
pull
Entries 78
Mean 316.2
Std Dev 276.1

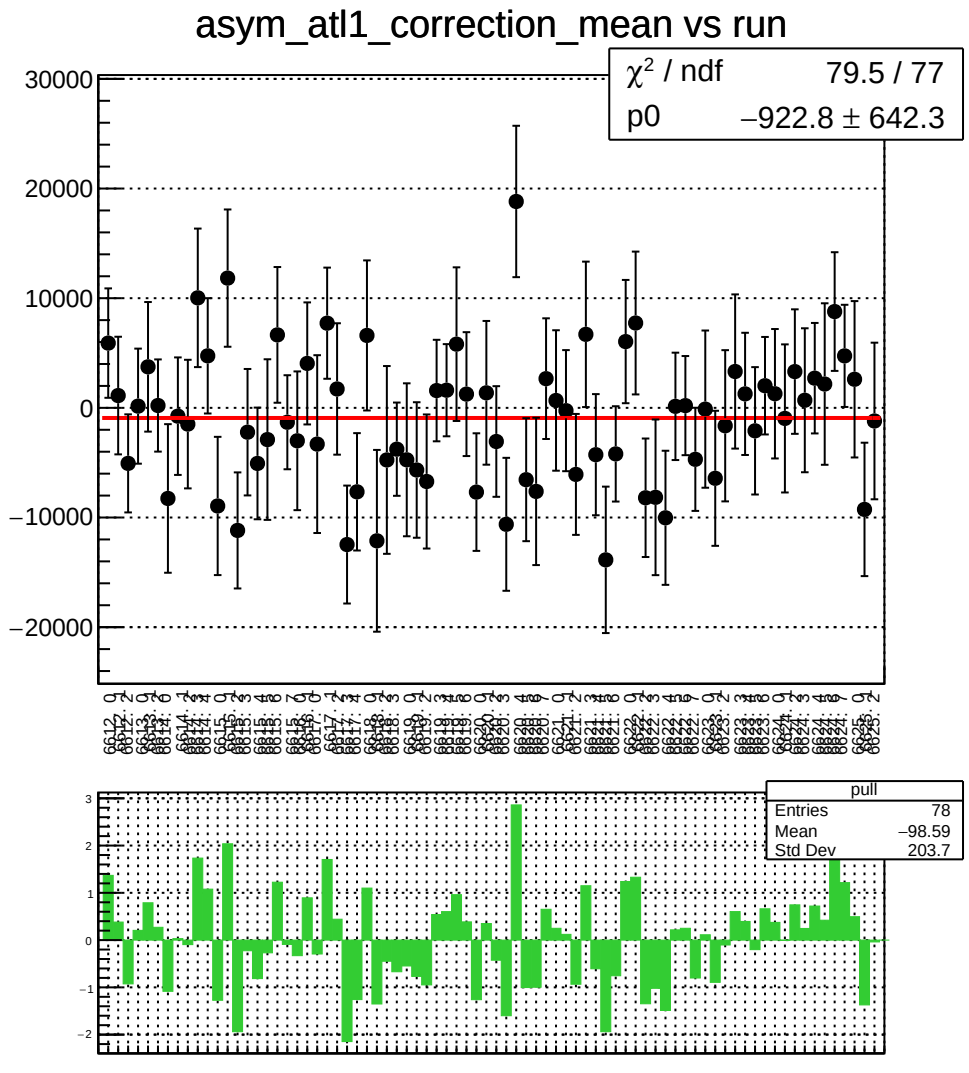

pull1D
Entries 78
Mean 0.01021
Std Dev 1.002

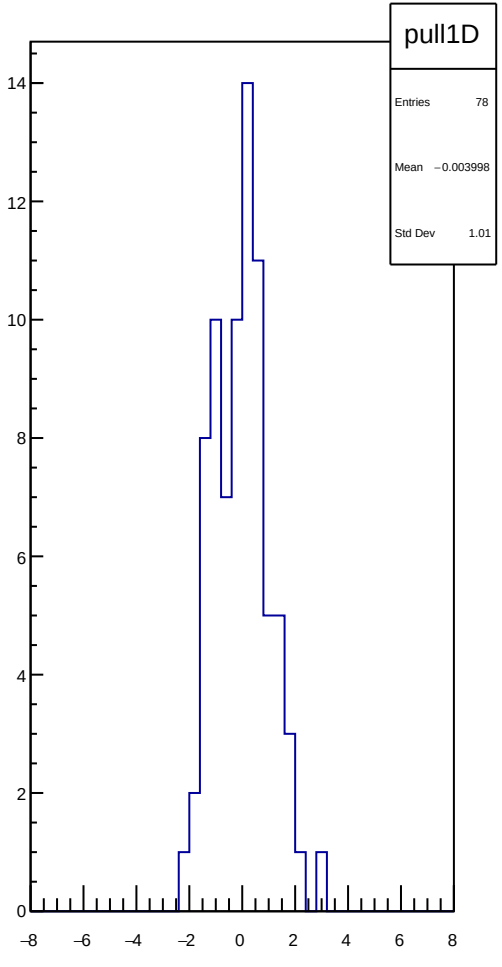

asym_us_agg_dd_rms vs run
χ^2 / ndf 274.1 / 77
p0 2336 ± 1.878
2500
2450
2400
2350
2300
2250

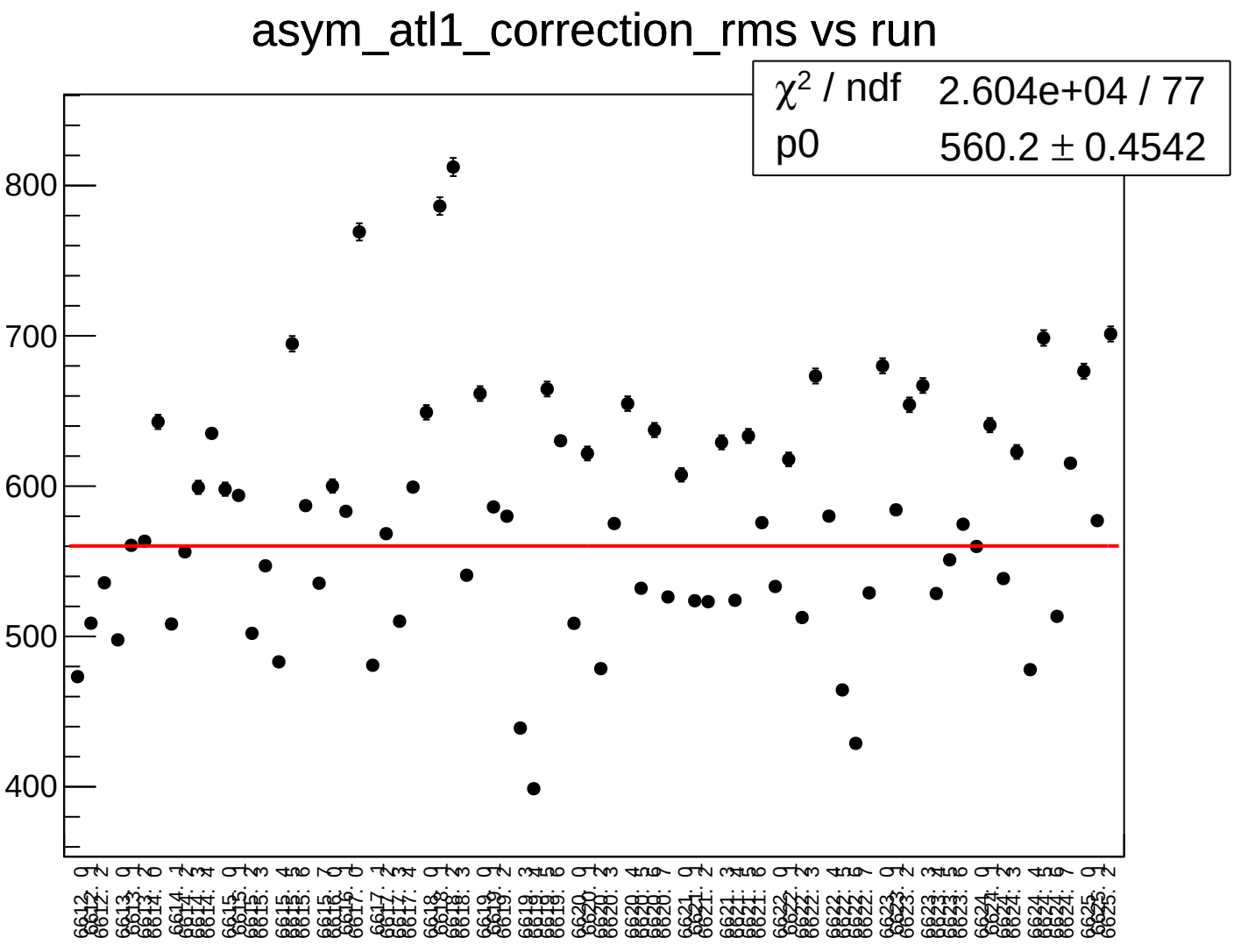

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 60.42 / 77
p0 5900 ± 3519
150
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 78
Mean 243.2
Std Dev 217.4
2
1
0
−1
−2

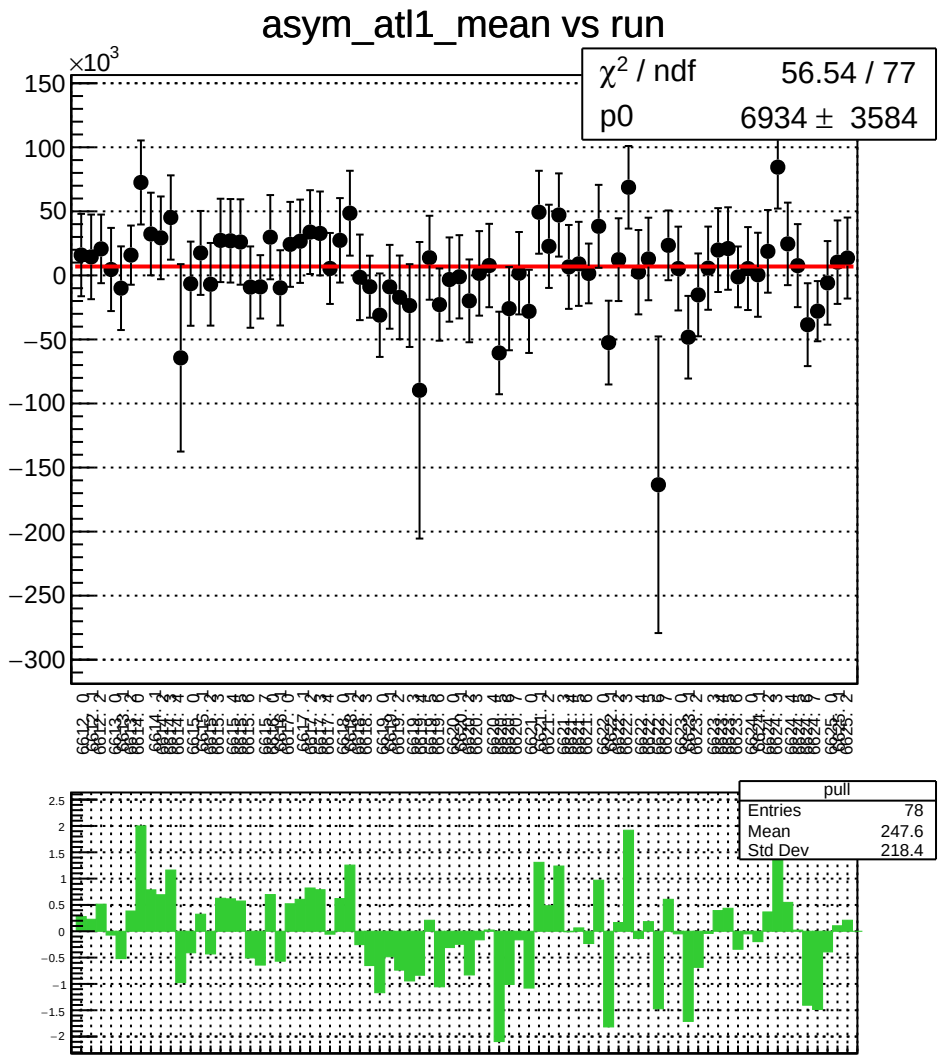

pull1D
Entries 78
Mean −0.01344
Std Dev 0.8801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

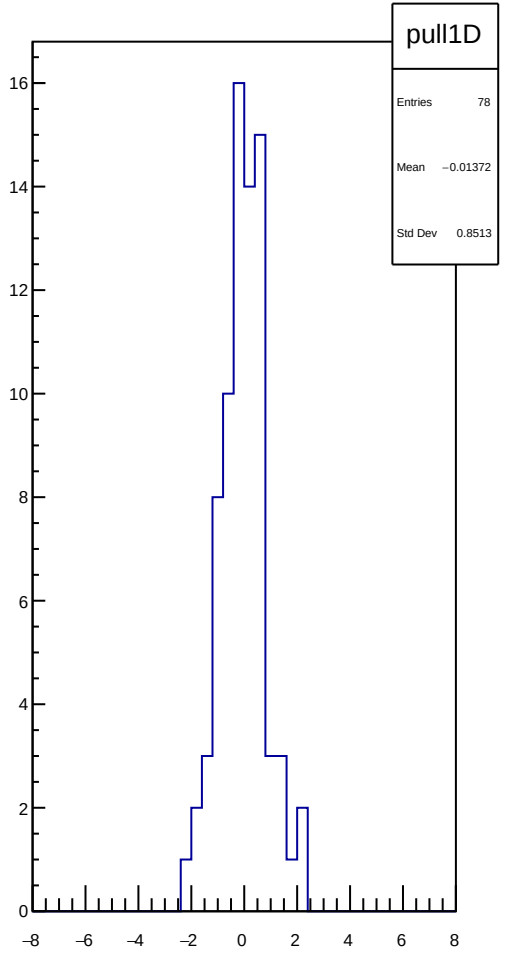

reg_asym_atl1_rms vs run
χ² / ndf 3.138e+04 / 77
p0 3064 ± 2.489
11000
10000
9000
8000
7000
6000
5000
4000
3000

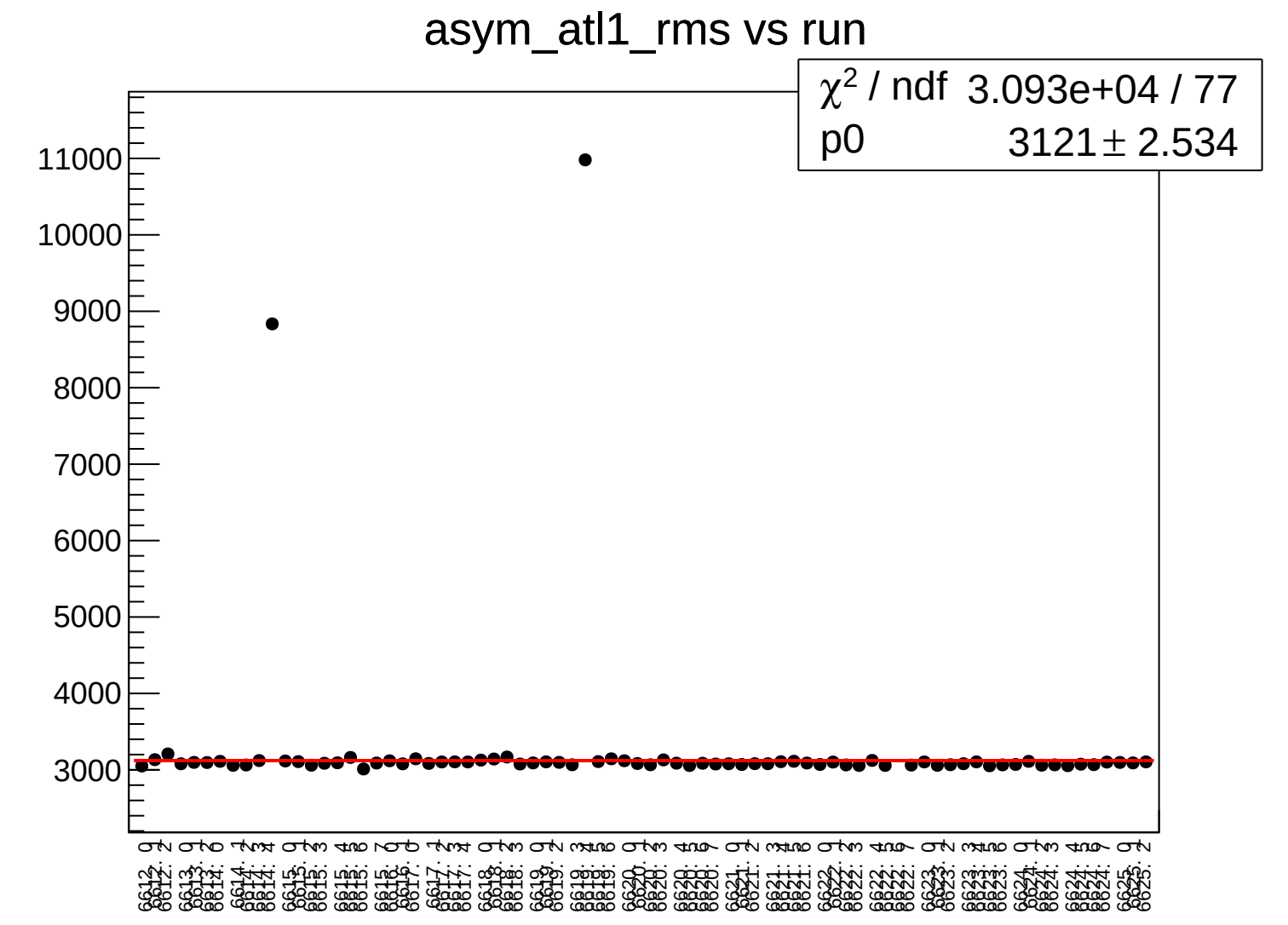

asym_atl1_correction_mean vs run
χ² / ndf 79.5 / 77
p0 −922.8 ± 642.3
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −98.59
Std Dev 203.7
3
2
1
0
−1
−2

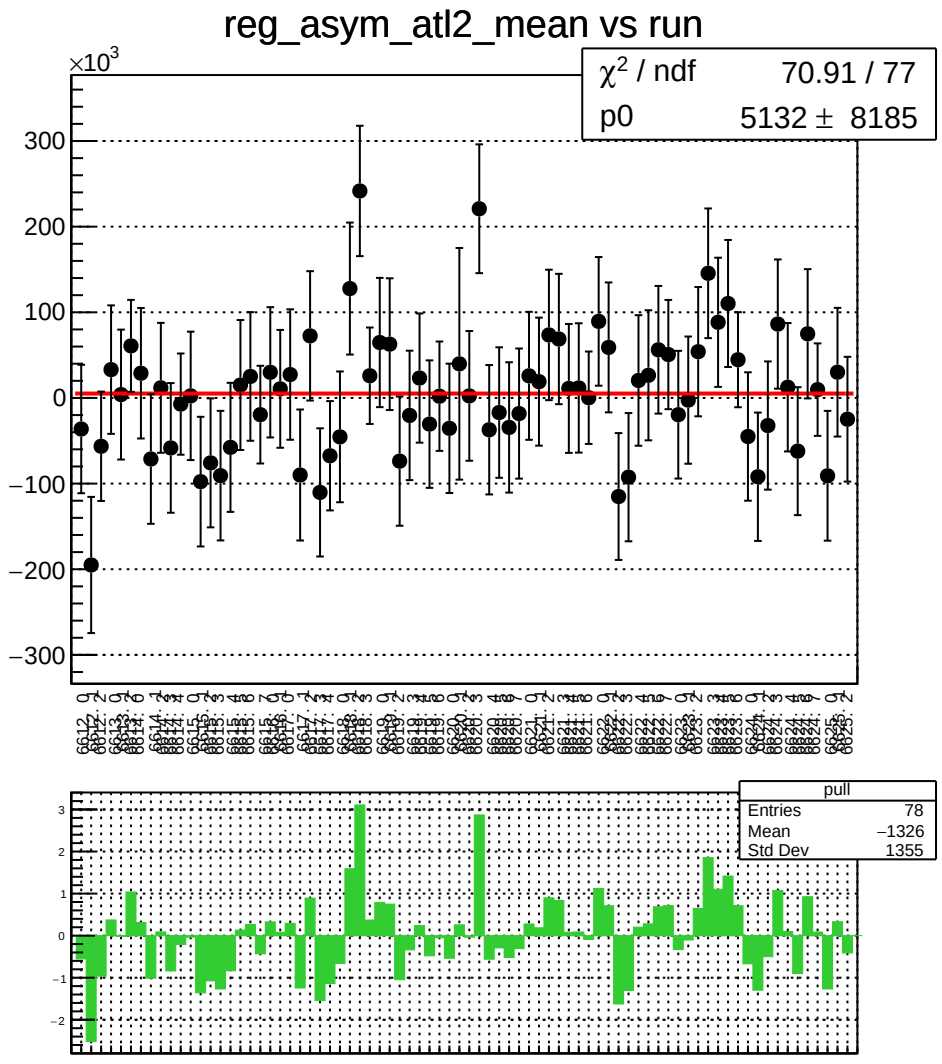

pull1D
Entries 78
Mean −0.003998
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

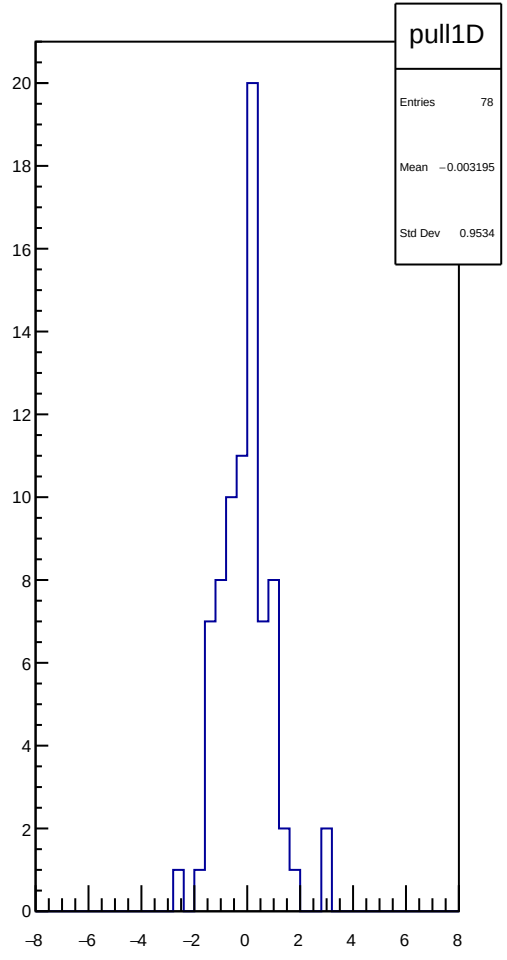

asym_atl1_correction_rms vs run
χ² / ndf 2.604e+04 / 77
p0 560.2 ± 0.4542
800
700
600
500
400

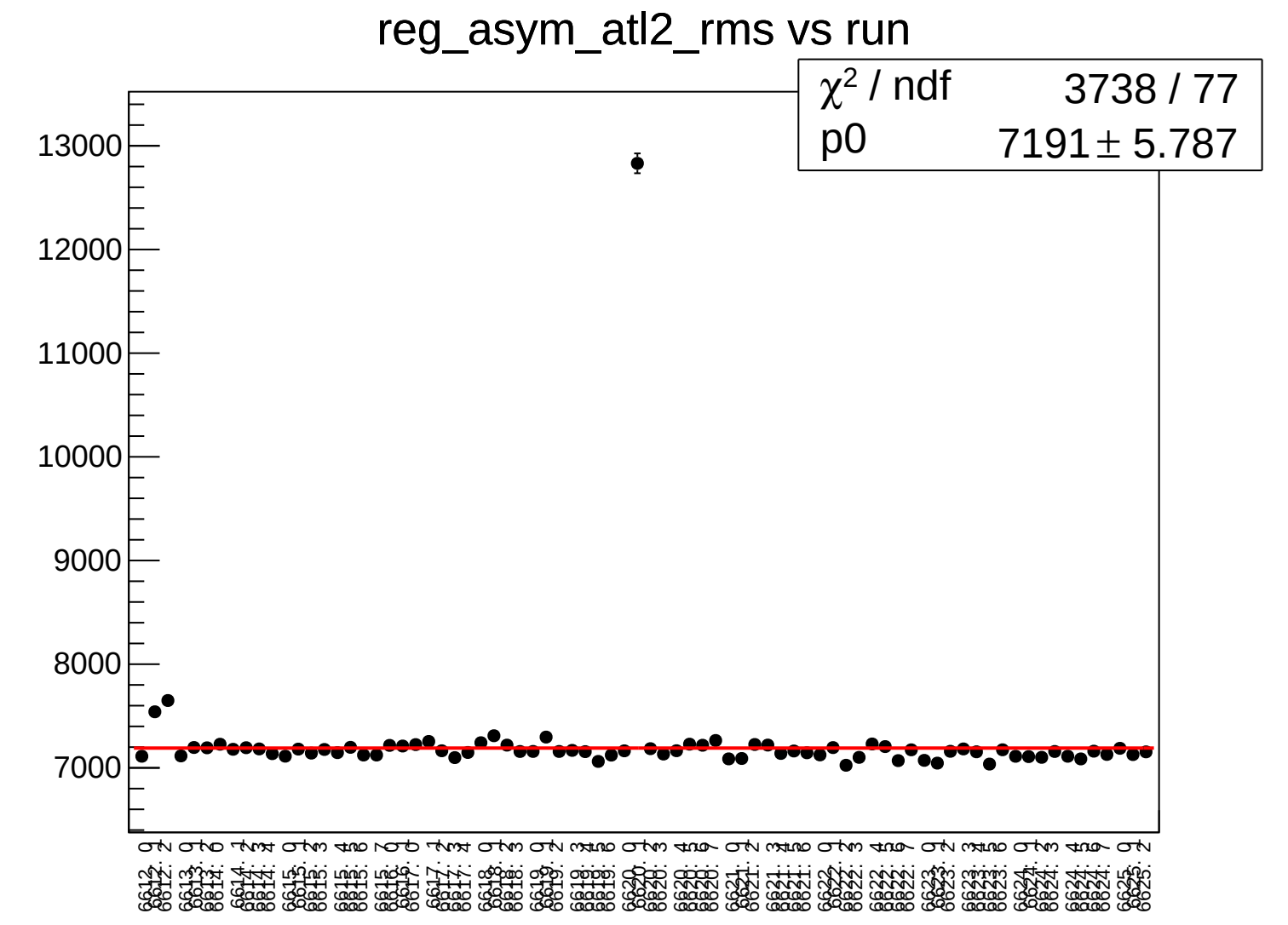

asym_atl1_mean vs run
×10^3
χ^2 / ndf 56.54 / 77
p0 6934 ± 3584
150
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 78
Mean 247.6
Std Dev 218.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

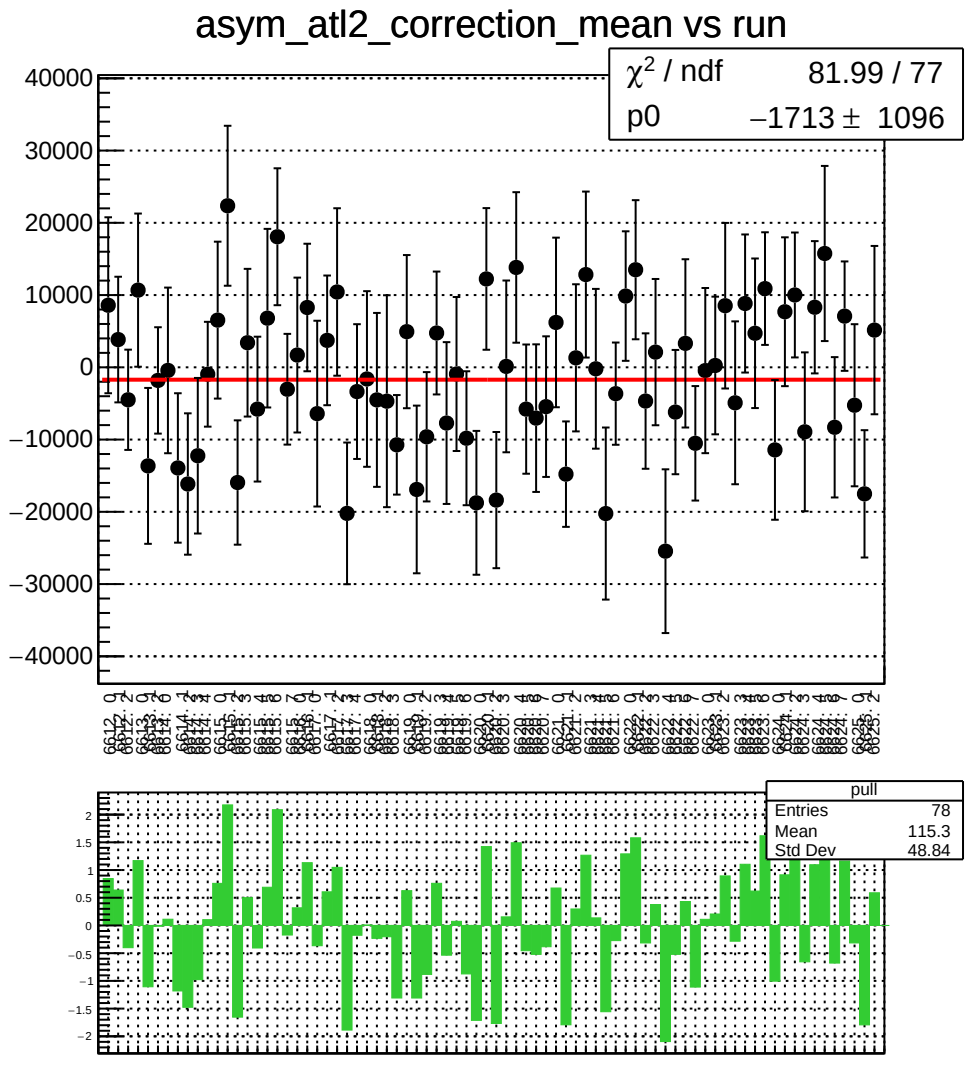

pull1D
Entries 78
Mean −0.01372
Std Dev 0.8513
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

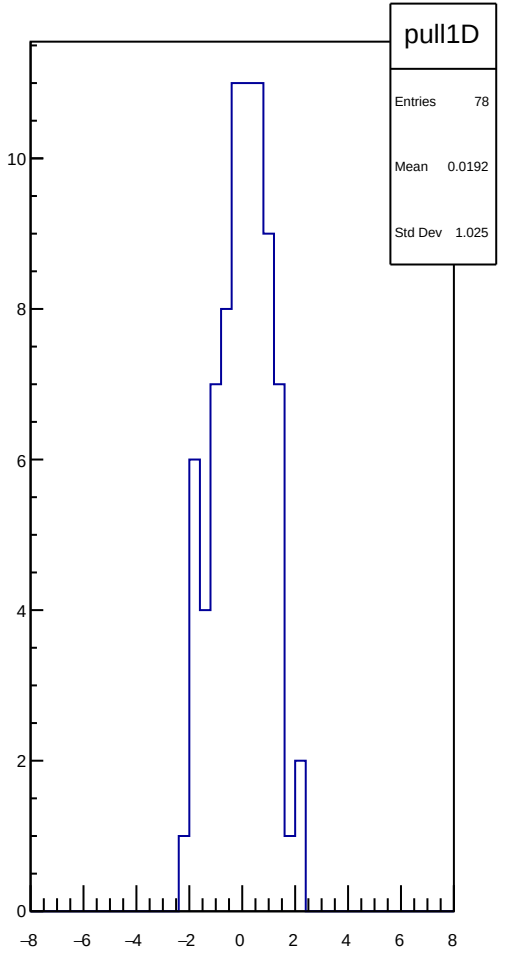

asym_atl1_rms vs run
χ^2 / ndf 3.093e+04 / 77
p0 3121 ± 2.534
11000
10000
9000
8000
7000
6000
5000
4000
3000

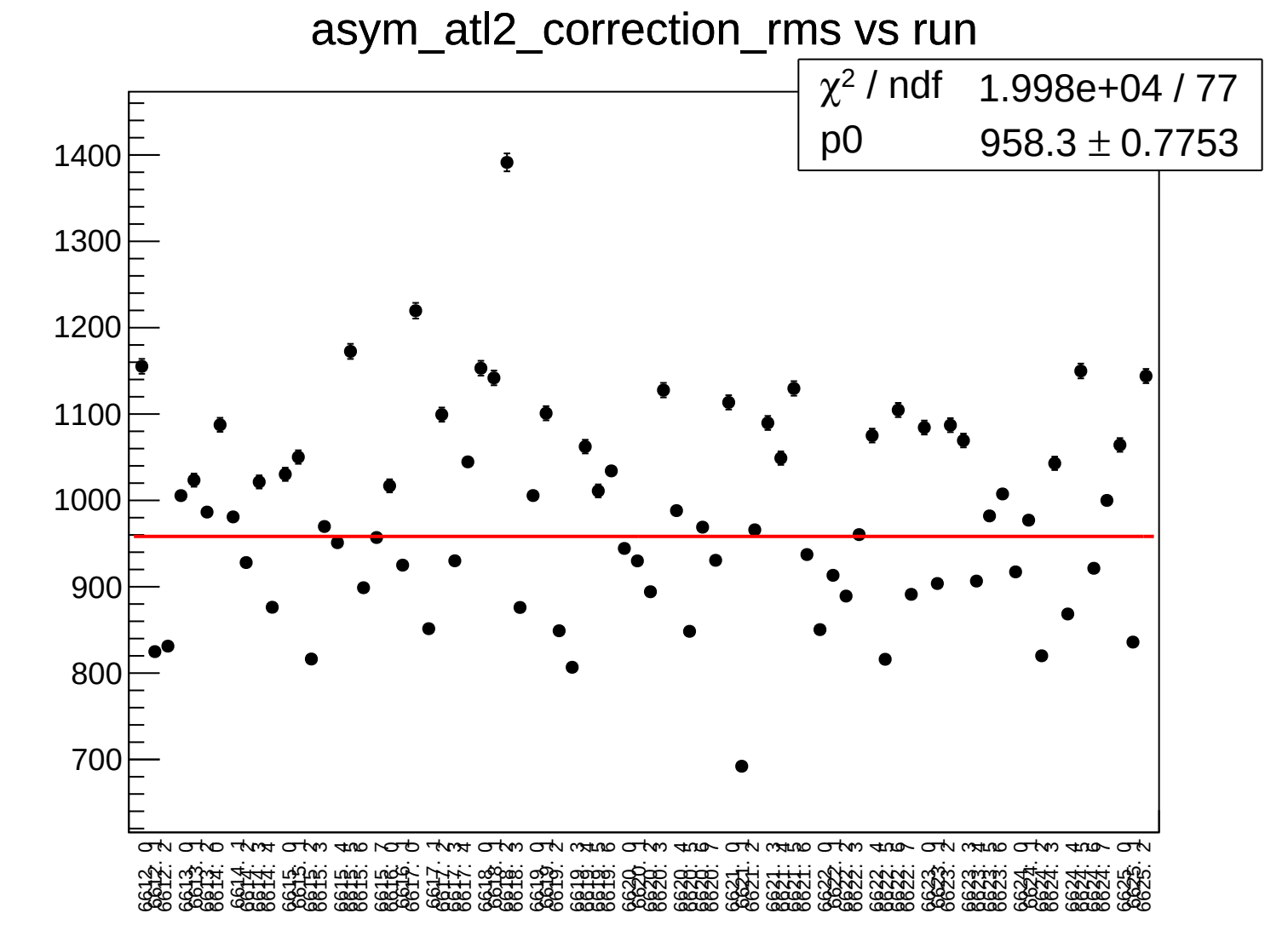

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 70.91 / 77
p0 5132 ± 8185
pull
Entries 78
Mean −1326
Std Dev 1355

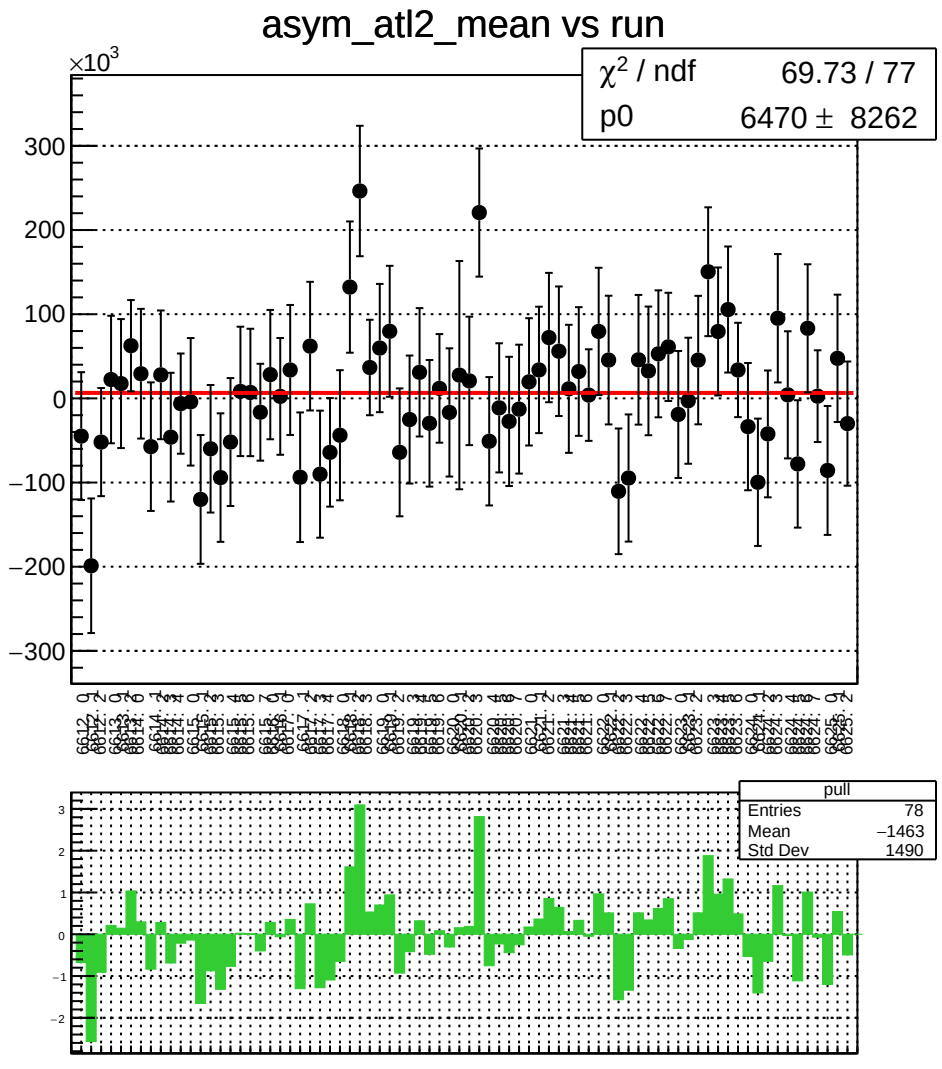

pull1D
Entries 78
Mean −0.003195
Std Dev 0.9534

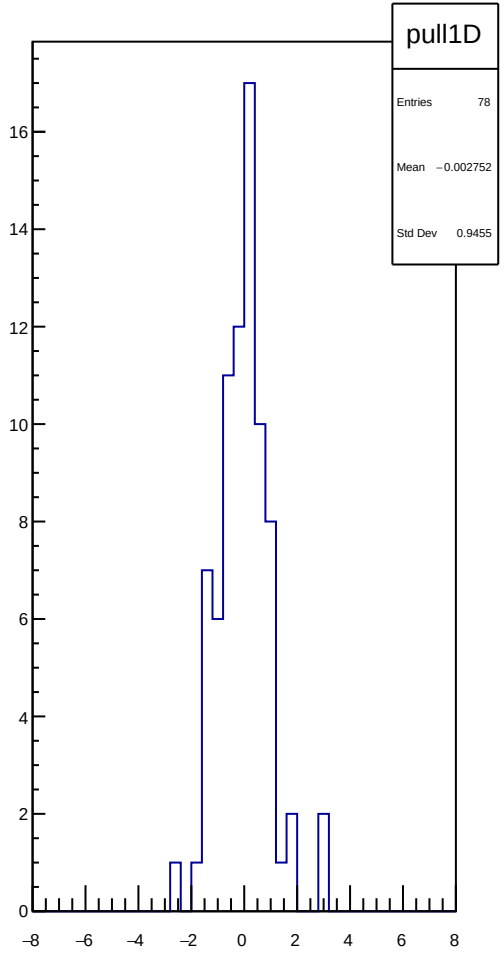

reg_asym_atl2_rms vs run
χ² / ndf 3738 / 77
p0 7191 ± 5.787
13000
12000
11000
10000
9000
8000
7000

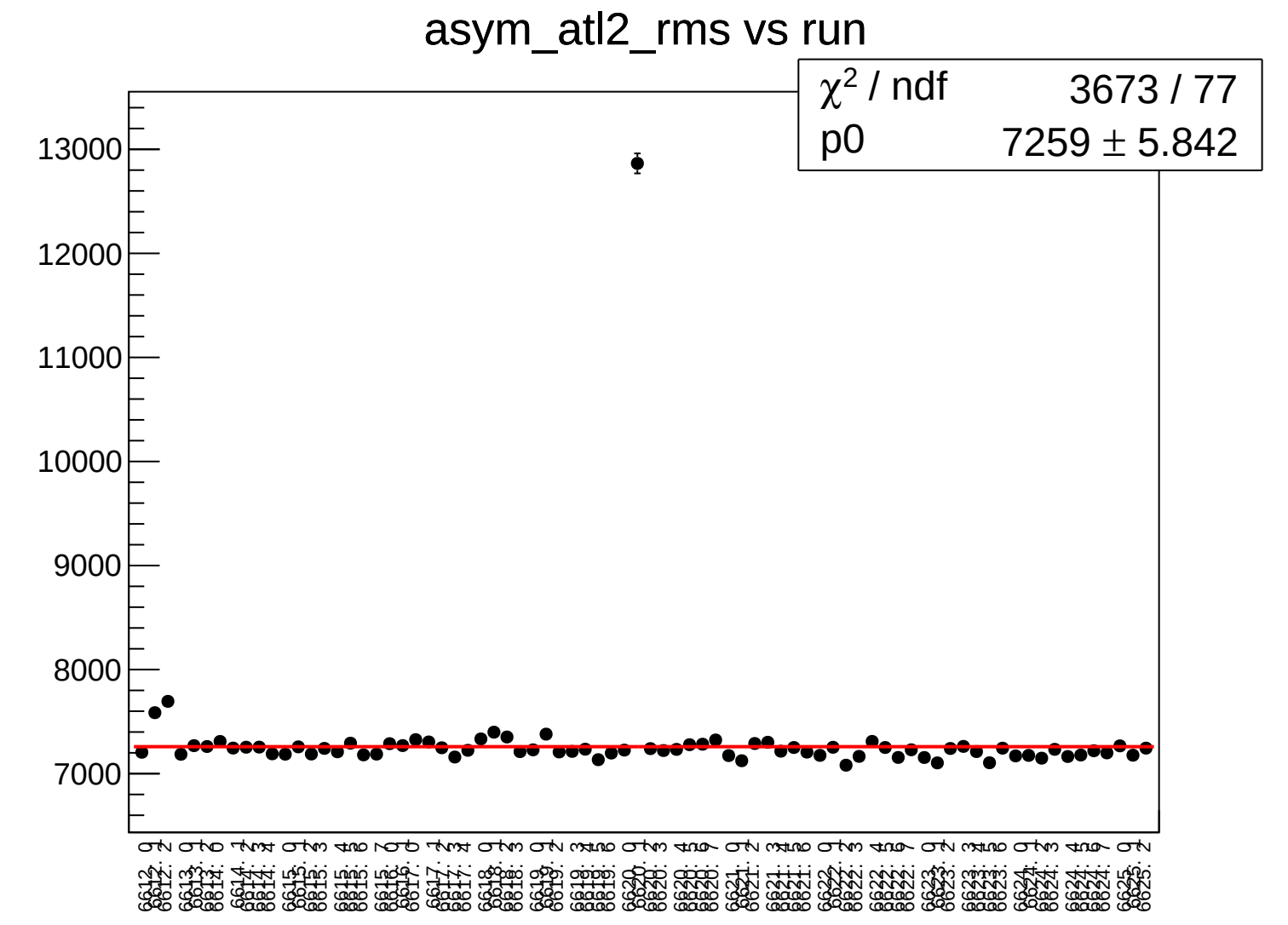

asym_atl2_correction_mean vs run
χ² / ndf 81.99 / 77
p0 −1713 ± 1096
pull
Entries 78
Mean 115.3
Std Dev 48.84

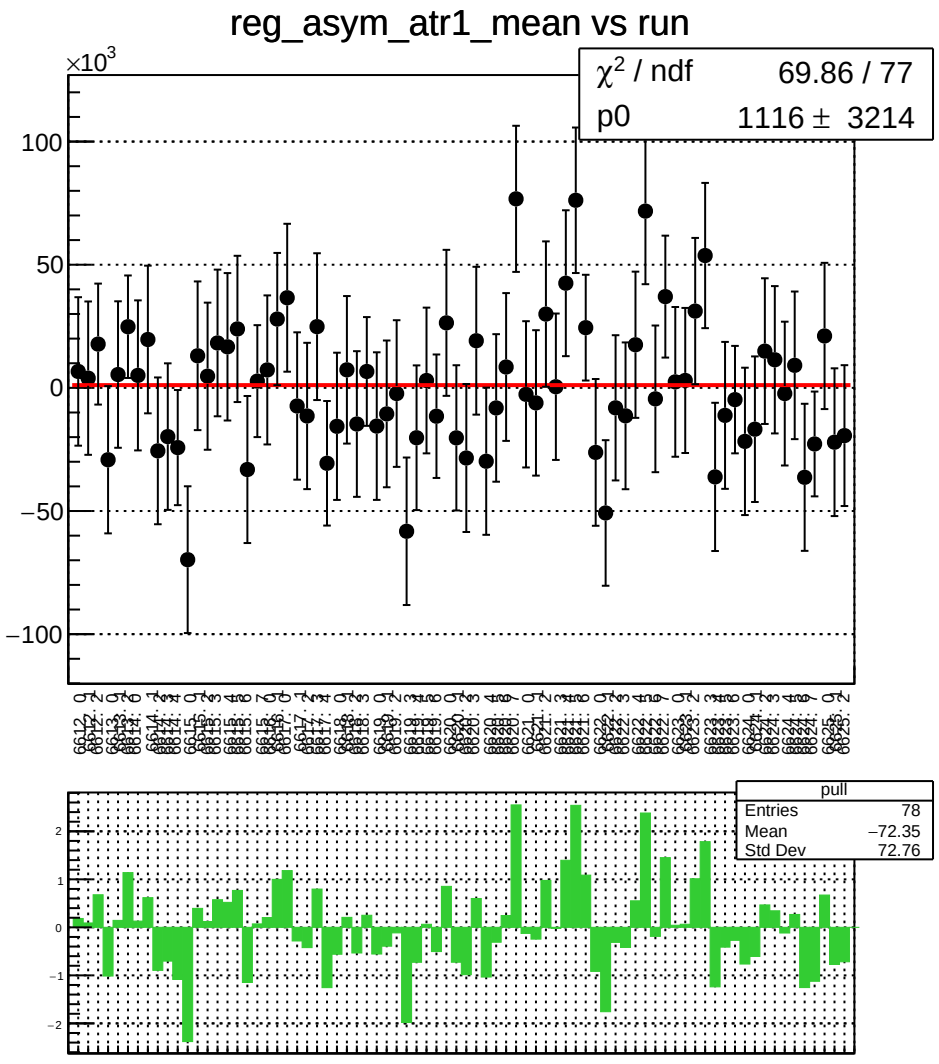

pull1D
Entries 78
Mean 0.0192
Std Dev 1.025

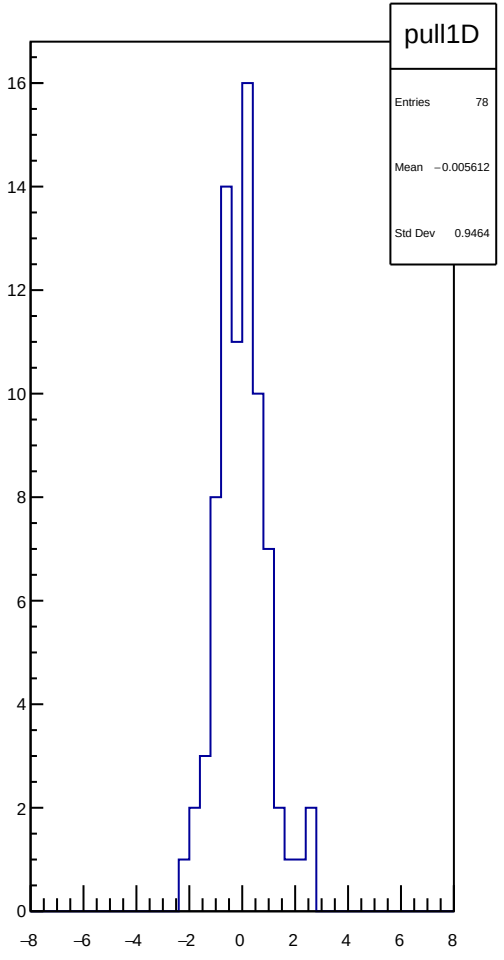

asym_atl2_correction_rms vs run
χ² / ndf 1.998e+04 / 77
p0 958.3 ± 0.7753
1400
1300
1200
1100
1000
900
800
700

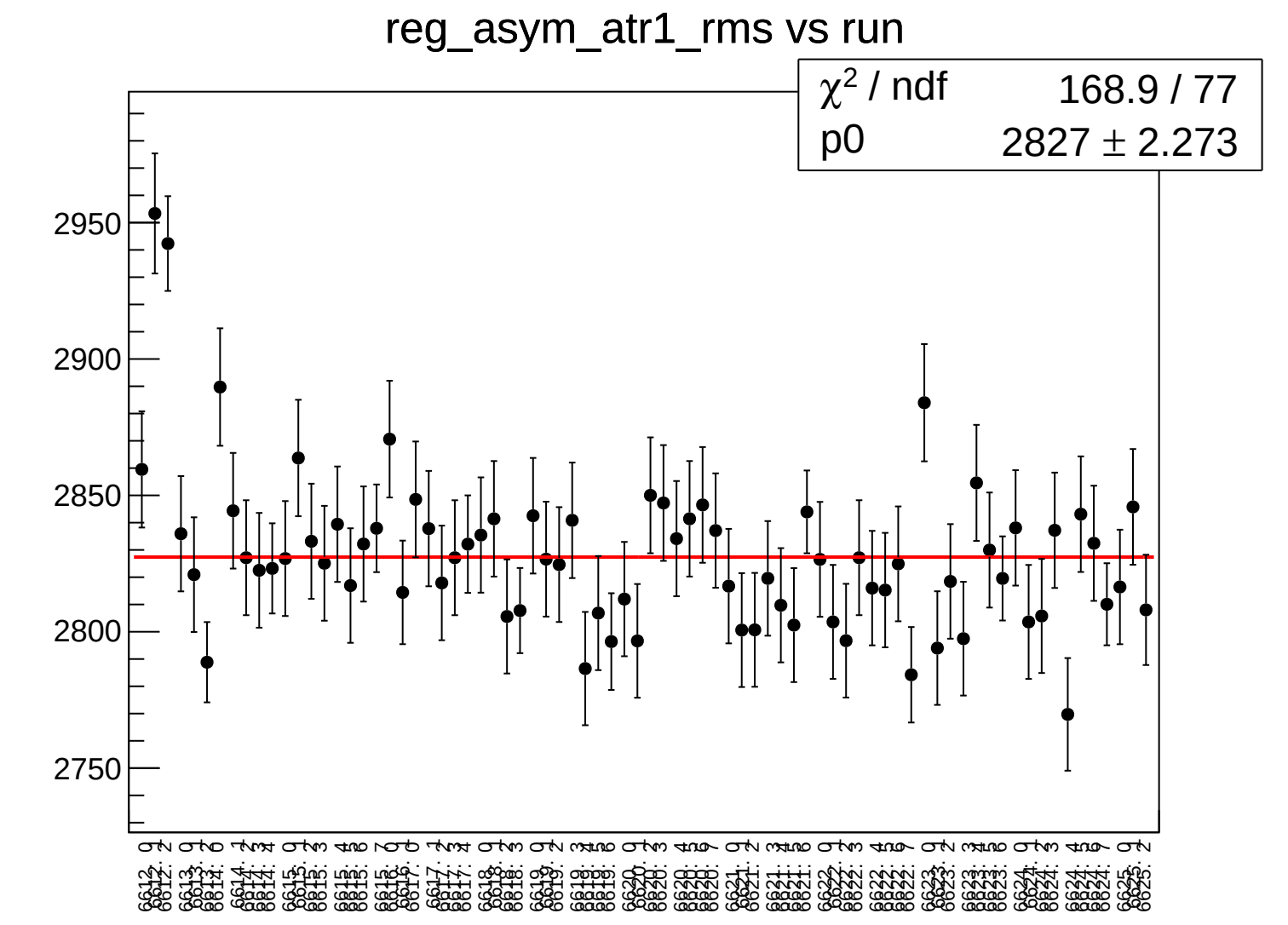

asym_atl2_mean vs run
χ² / ndf 69.73 / 77
p0 6470 ± 8262
×10³
300
200
100
0
−100
−200
−300
pull
Entries 78
Mean −1463
Std Dev 1490
3
2
1
0
−1
−2

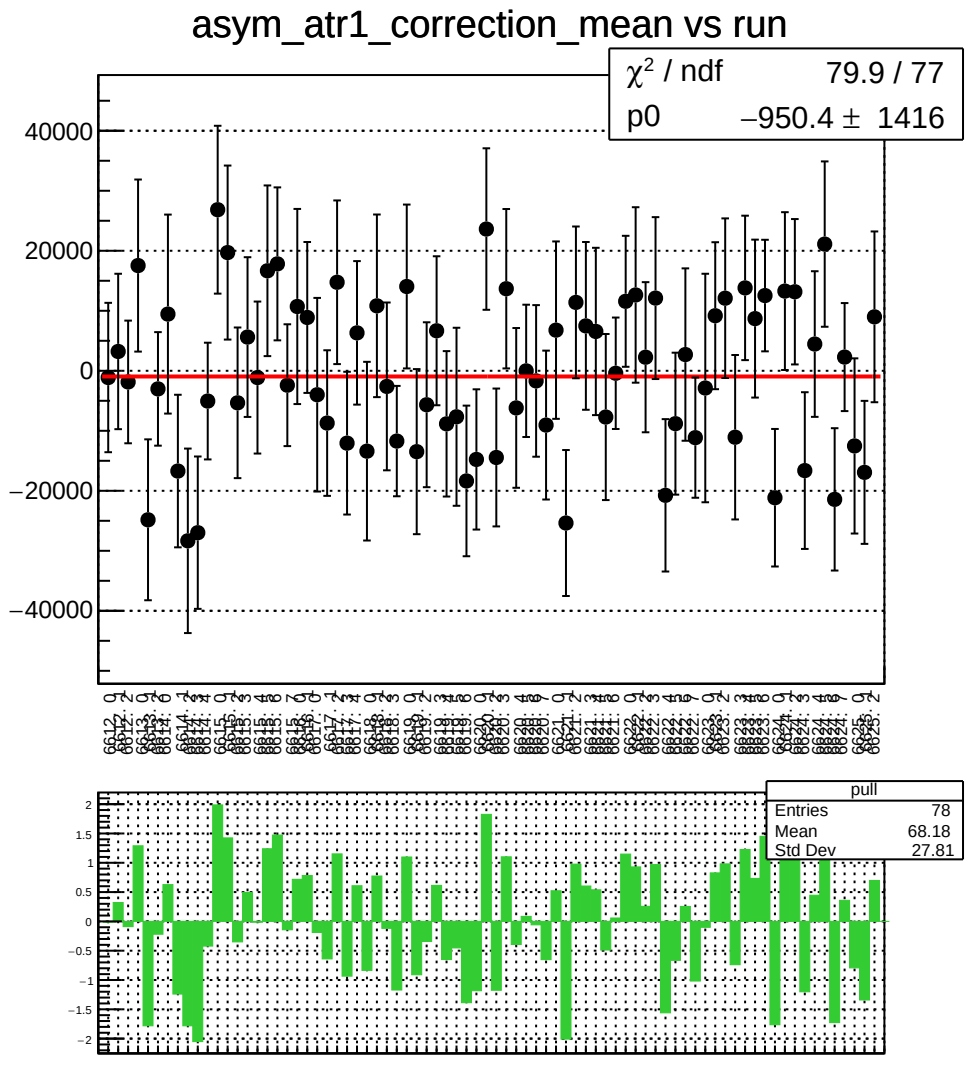

pull1D
Entries 78
Mean −0.002752
Std Dev 0.9455
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

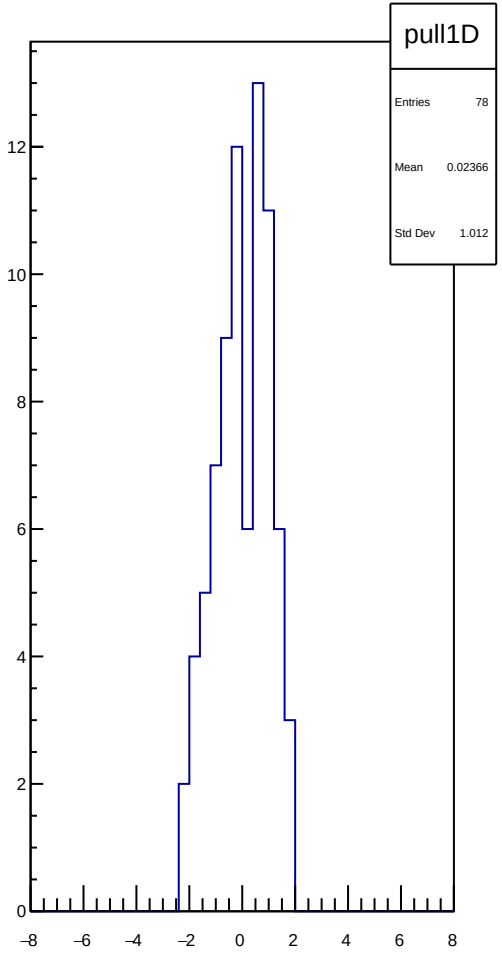

asym_atl2_rms vs run
χ² / ndf 3673 / 77
p0 7259 ± 5.842
13000
12000
11000
10000
9000
8000
7000

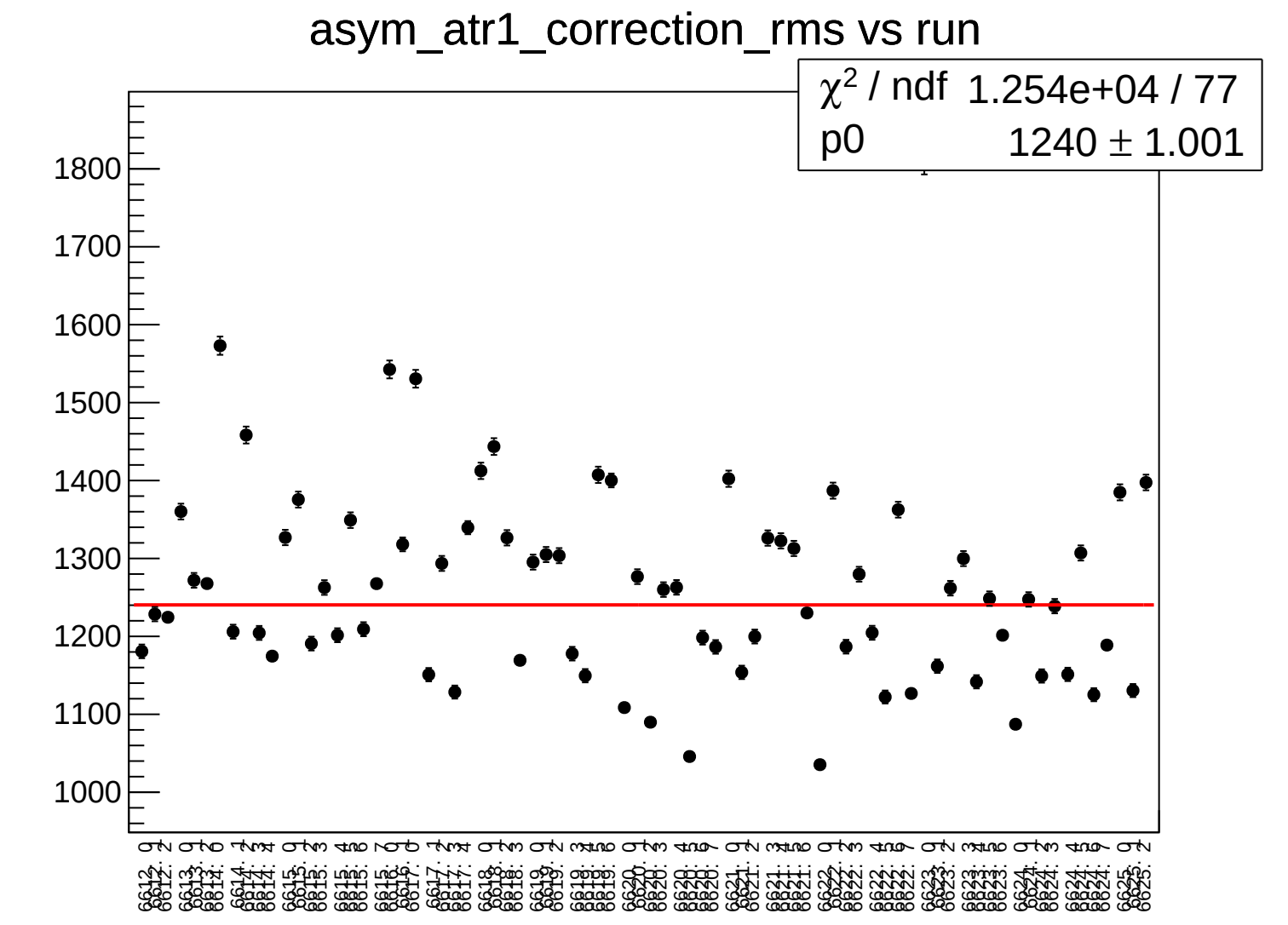

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 69.86 / 77
p0 1116 ± 3214
100
50
0
−50
−100
pull
Entries 78
Mean −72.35
Std Dev 72.76
2
1
0
−1
−2

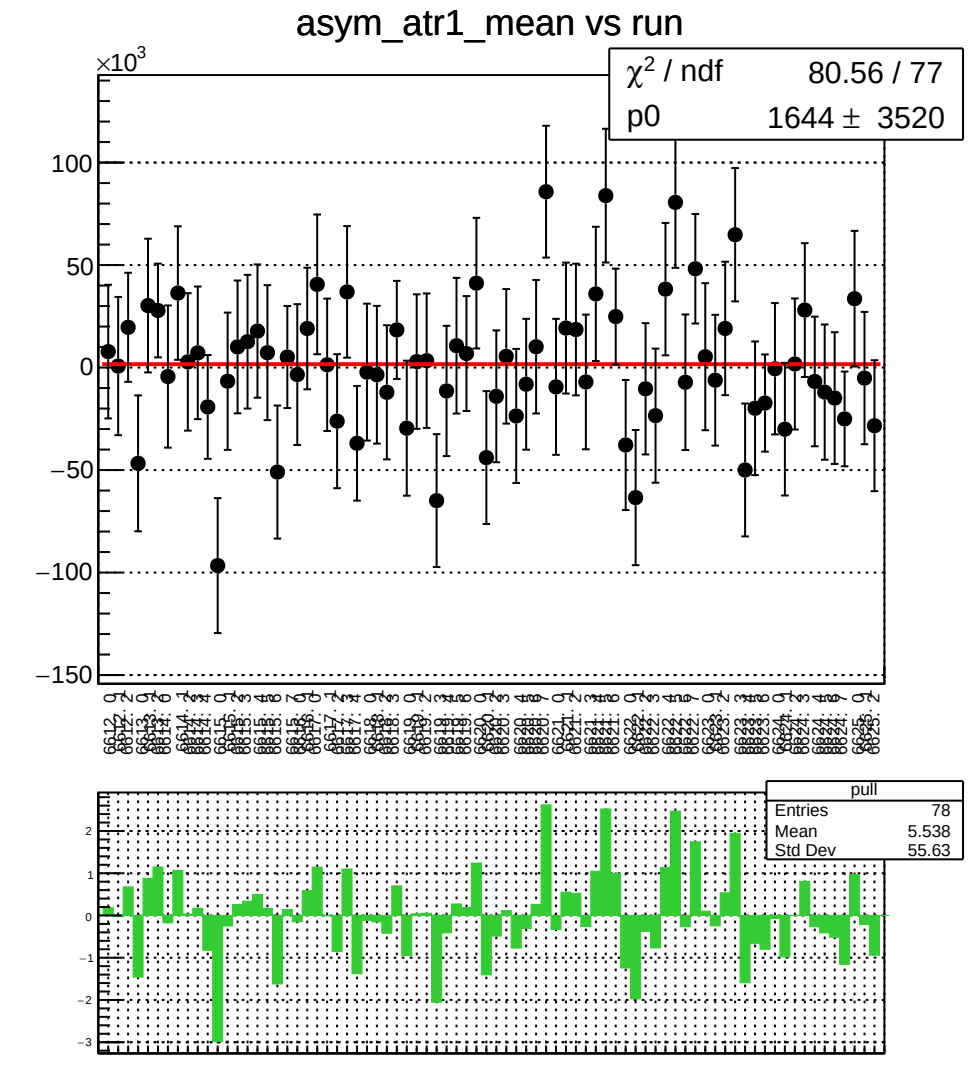

pull1D
Entries 78
Mean −0.005612
Std Dev 0.9464
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

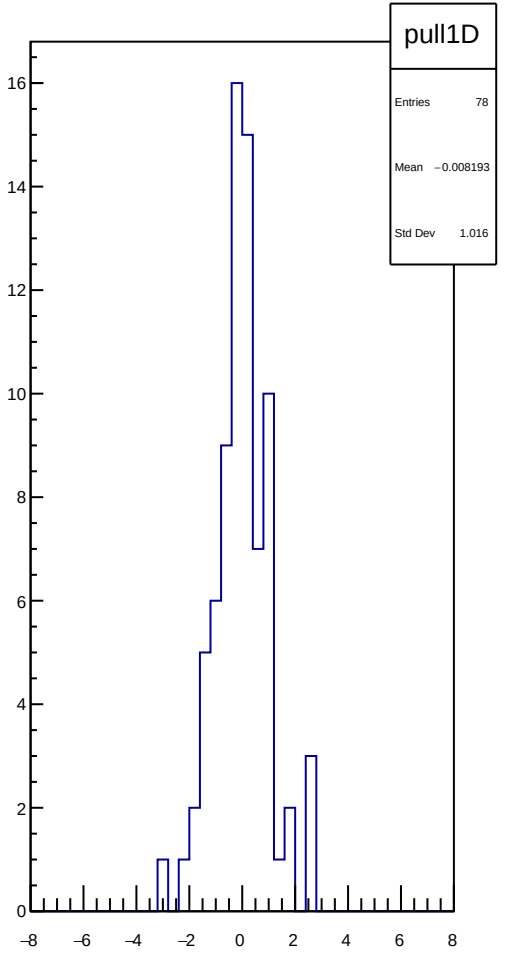

reg_asym_atr1_rms vs run
χ^2 / ndf 168.9 / 77
p0 2827 ± 2.273
2950
2900
2850
2800
2750

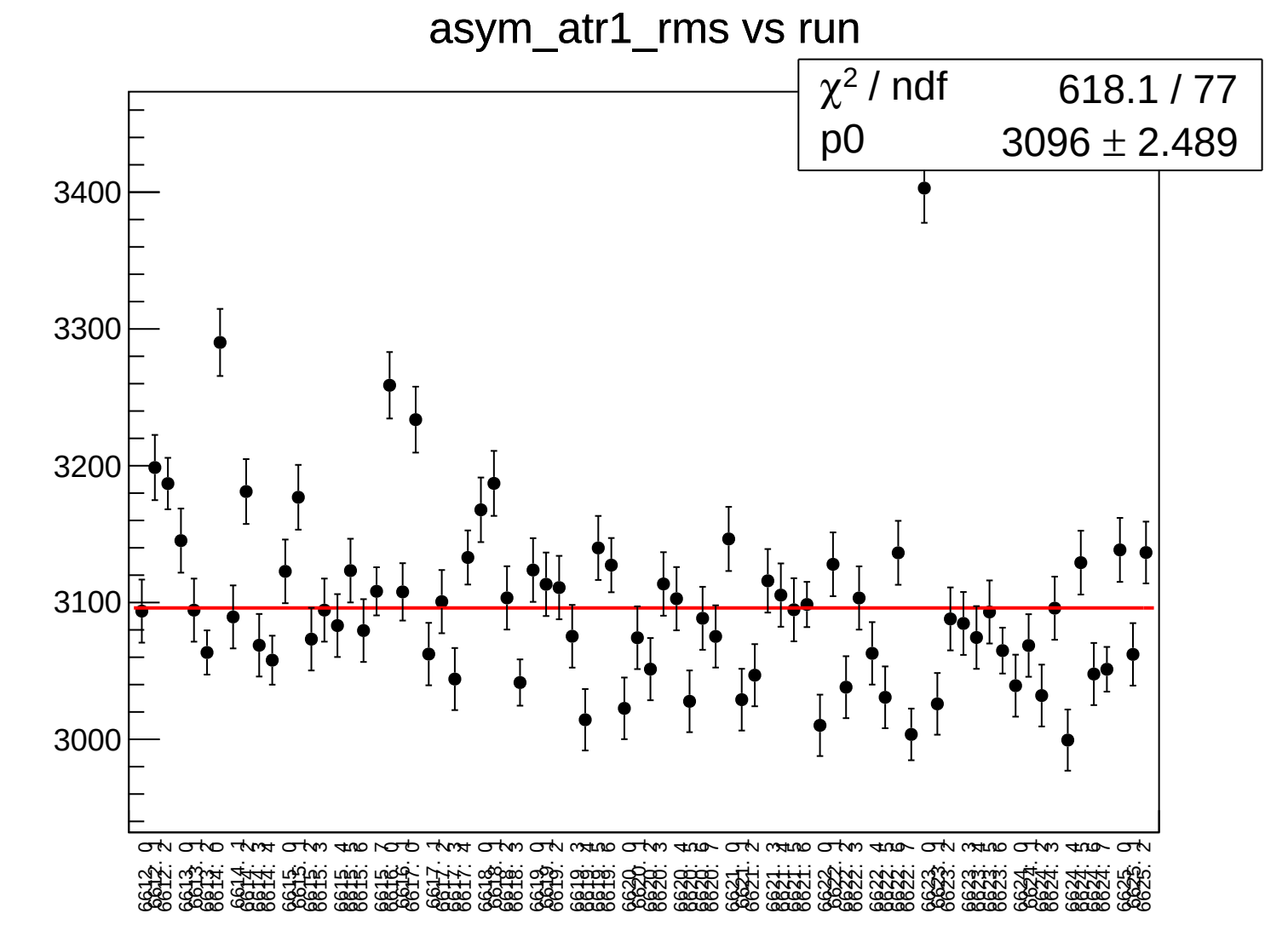

asym_atr1_correction_mean vs run
χ² / ndf 79.9 / 77
p0 −950.4 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 68.18
Std Dev 27.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

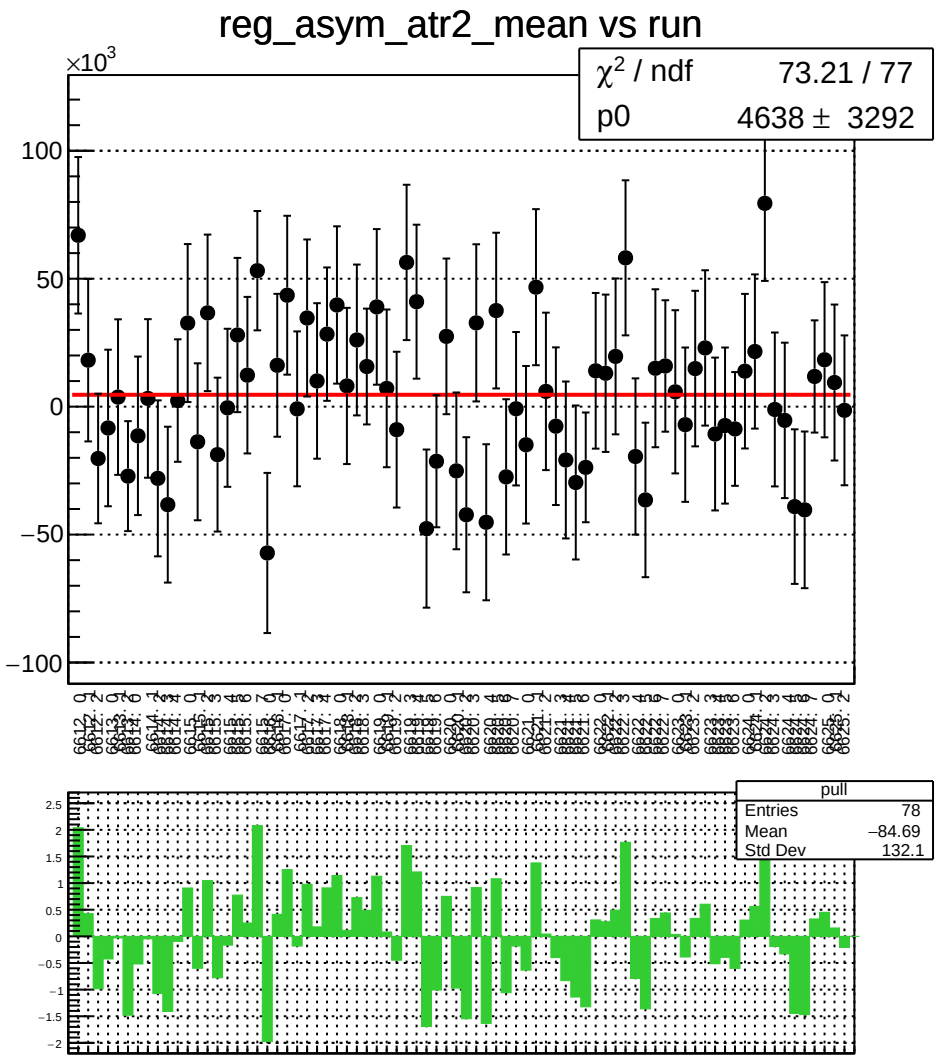

pull1D
Entries 78
Mean 0.02366
Std Dev 1.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

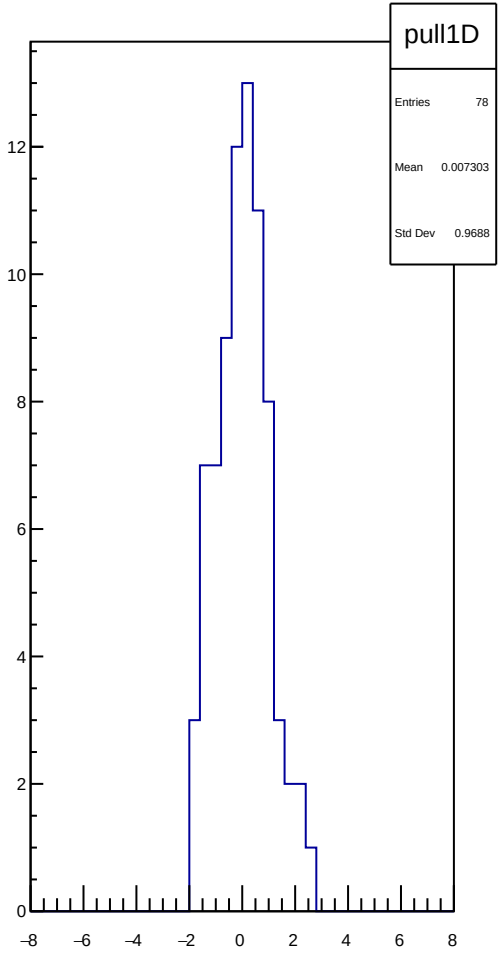

asym_atr1_correction_rms vs run
χ² / ndf 1.254e+04 / 77
p0 1240 ± 1.001
1800
1700
1600
1500
1400
1300
1200
1100
1000

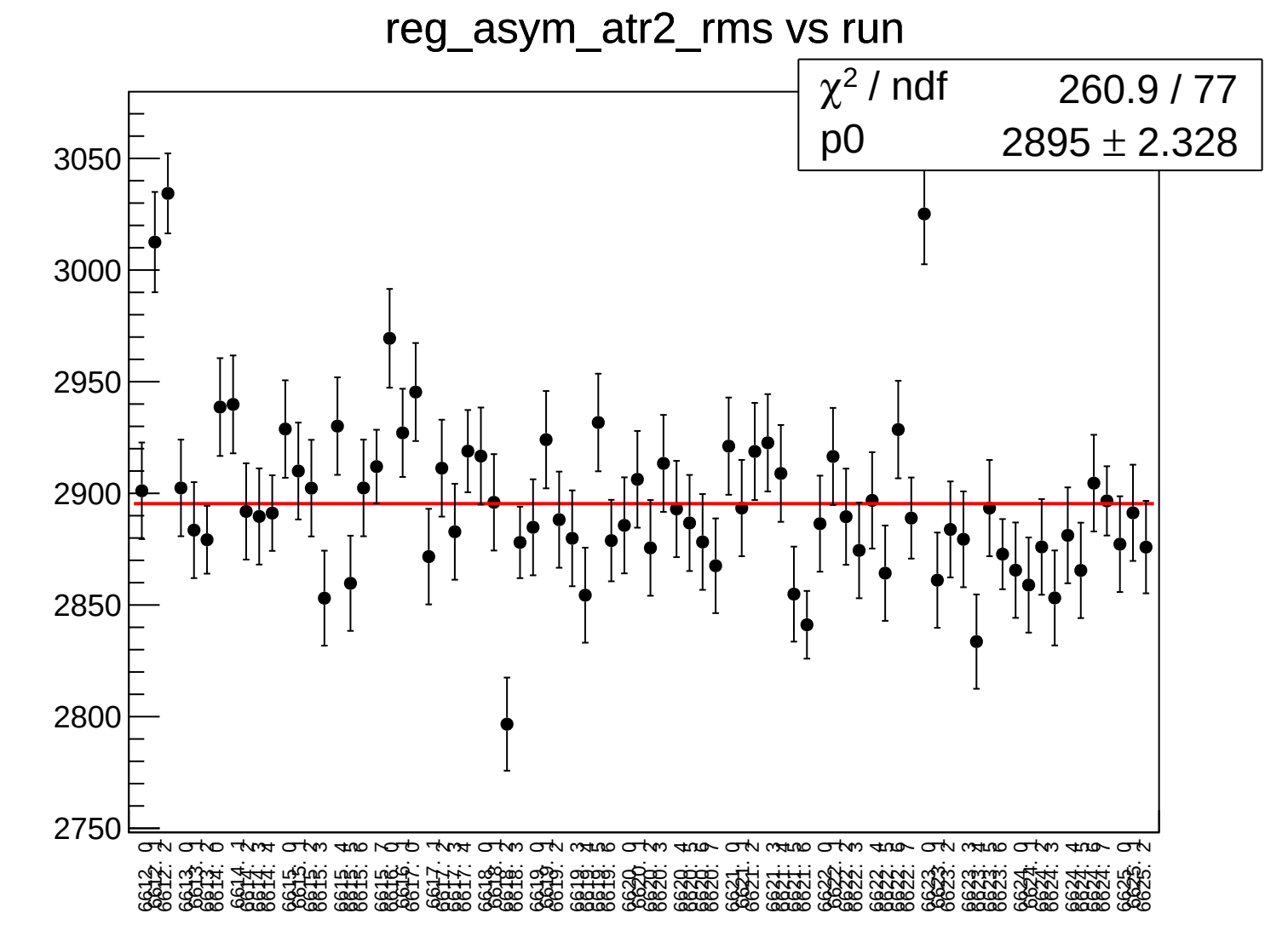

asym_atr1_mean vs run
×10^3
χ² / ndf 80.56 / 77
p0 1644 ± 3520
100
50
0
−50
−100
−150
pull
Entries 78
Mean 5.538
Std Dev 55.63
2
1
0
−1
−2
−3

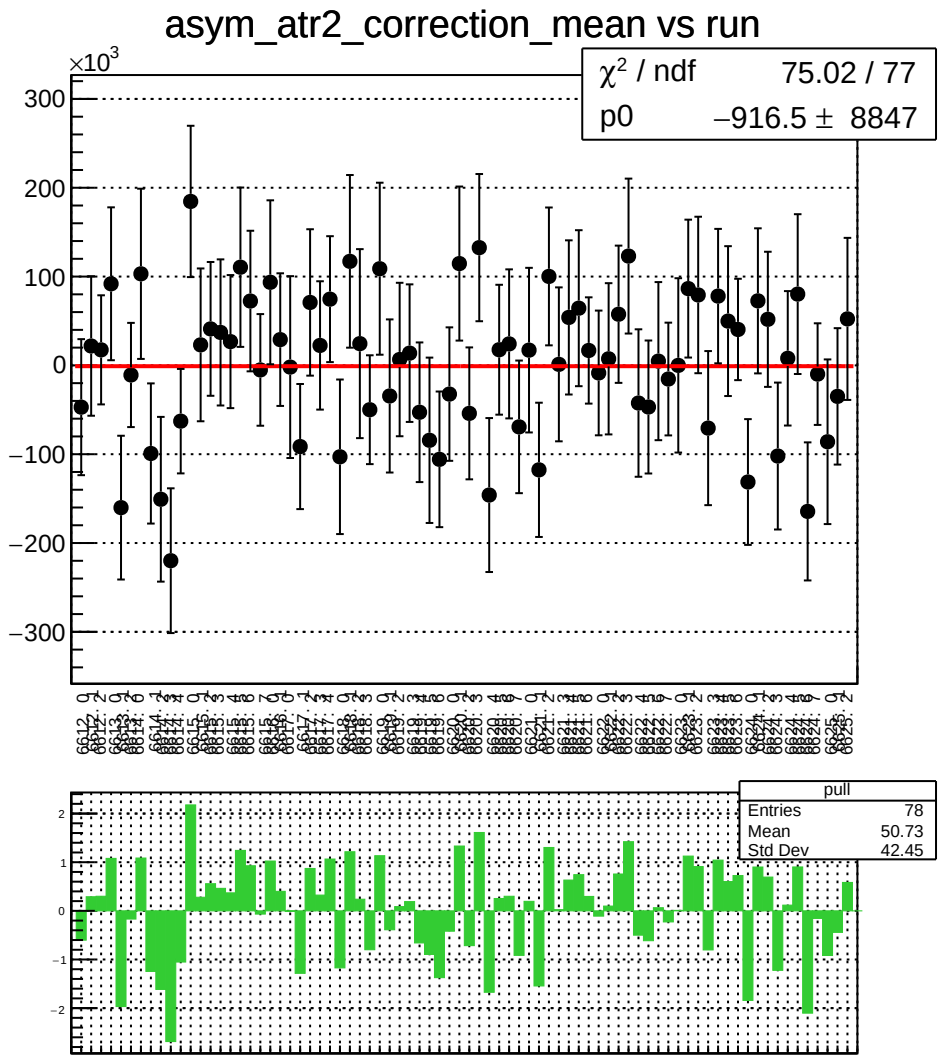

pull1D
Entries 78
Mean −0.008193
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

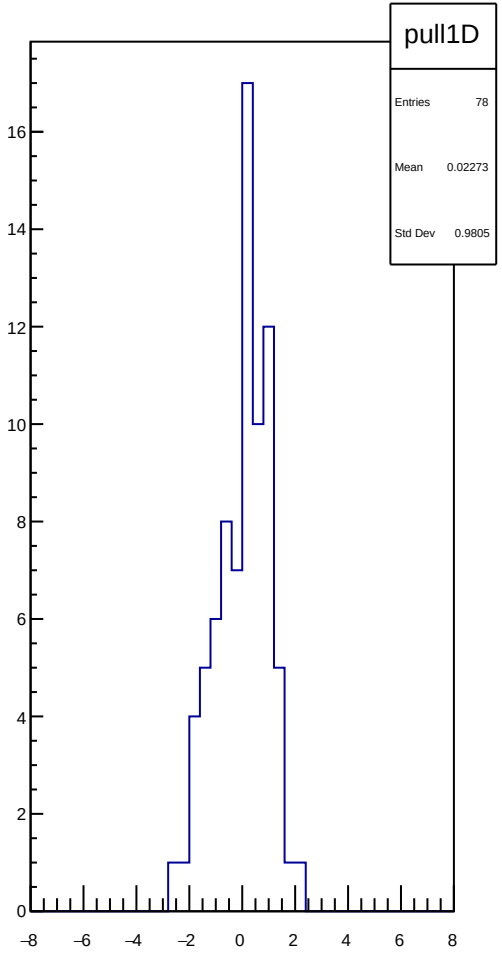

asym_atr1_rms vs run
χ² / ndf 618.1 / 77
p0 3096 ± 2.489
3400
3300
3200
3100
3000

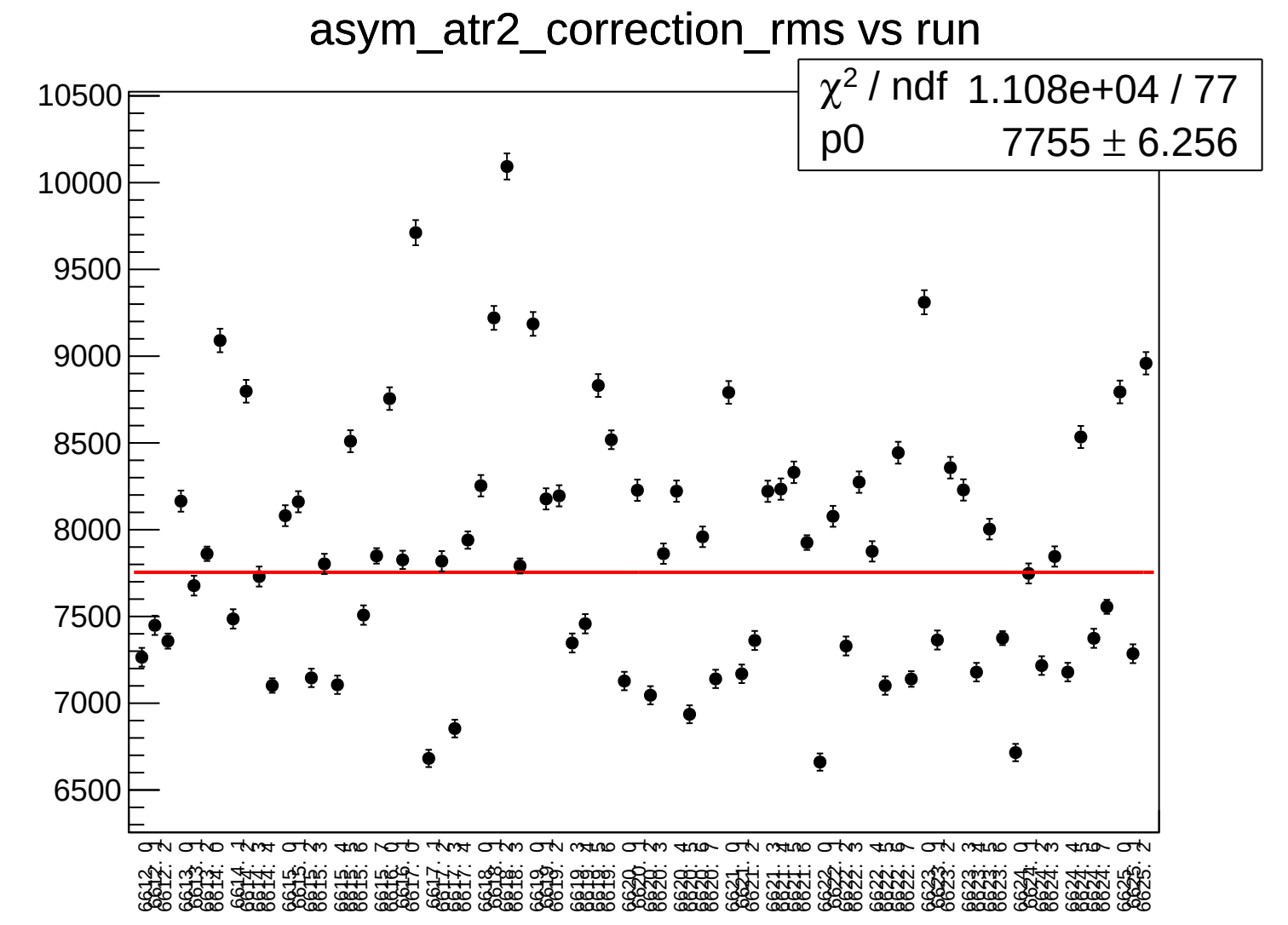

reg_asym_atr2_mean vs run
χ^2 / ndf 73.21 / 77
p0 4638 ± 3292
×10^3
pull
Entries 78
Mean −84.69
Std Dev 132.1

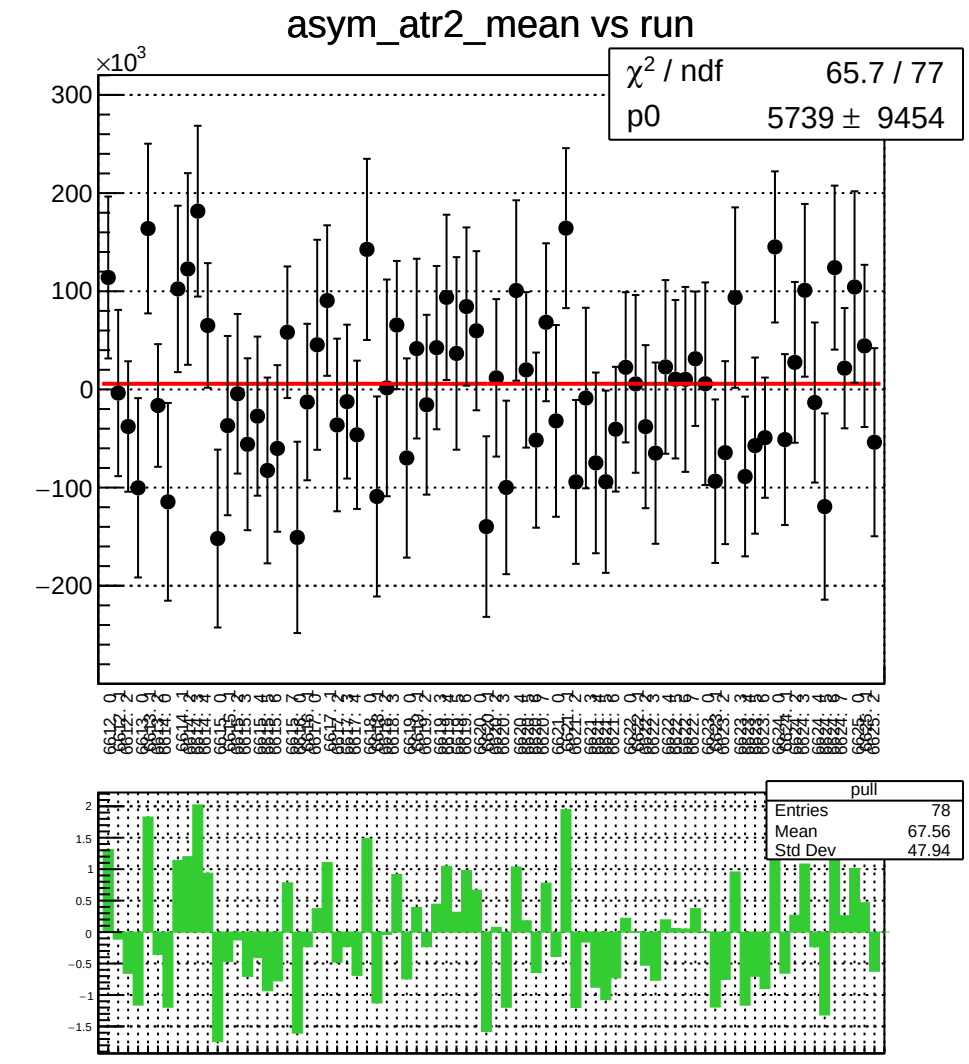

pull1D
Entries 78
Mean 0.007303
Std Dev 0.9688

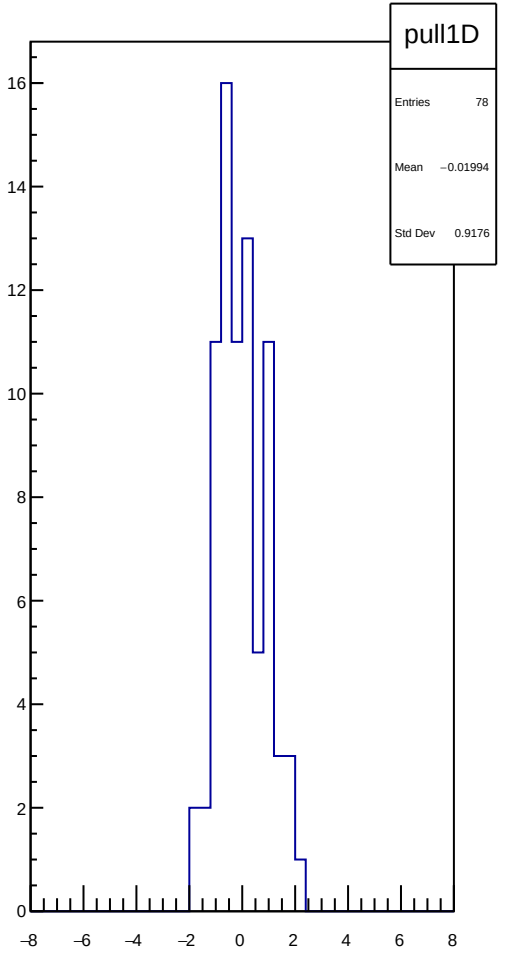

reg_asym_atr2_rms vs run
χ² / ndf 260.9 / 77
p0 2895 ± 2.328
3050
3000
2950
2900
2850
2800
2750

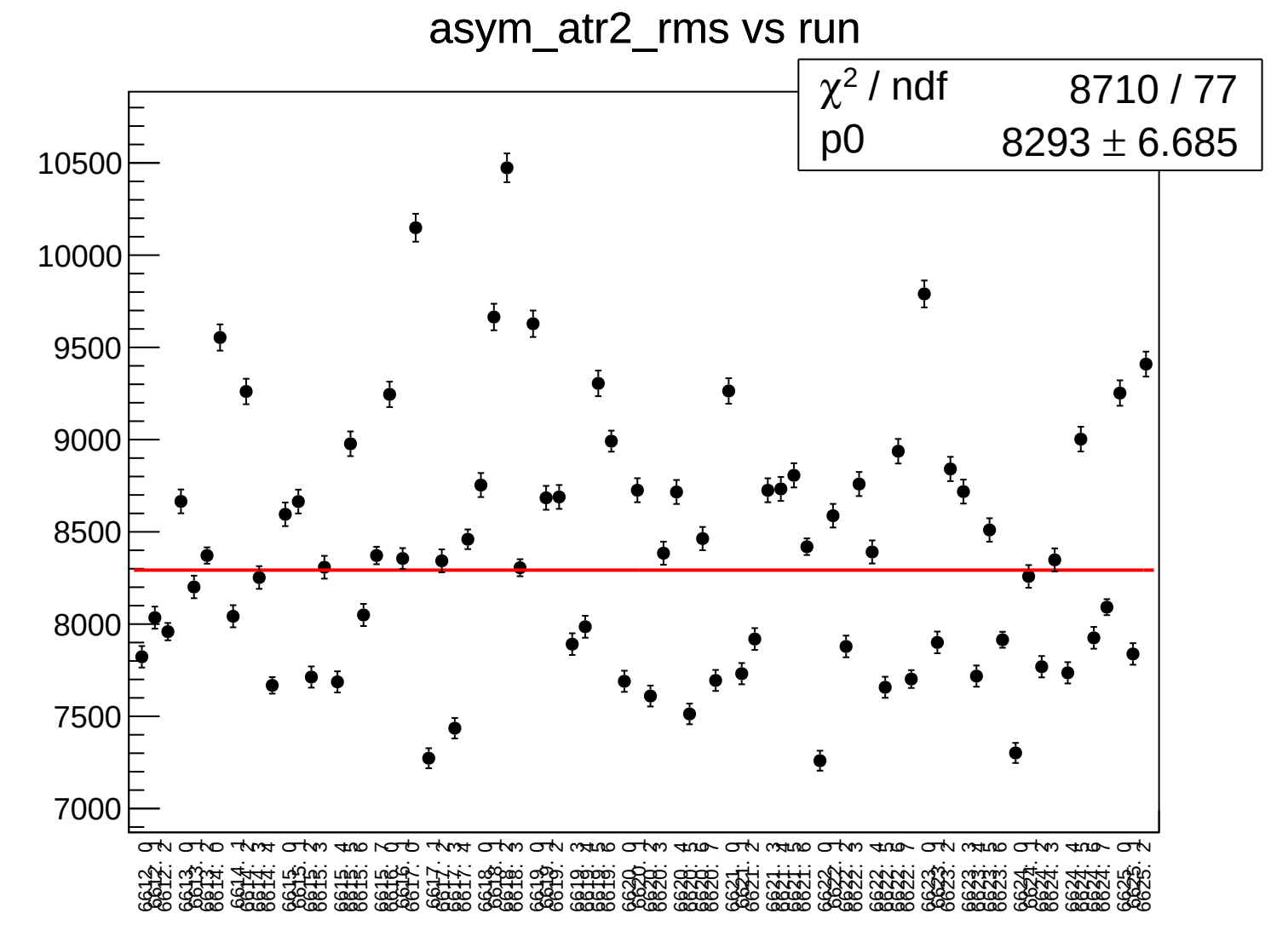

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 75.02 / 77
p0 −916.5 ± 8847
300
200
100
0
−100
−200
−300
pull
Entries 78
Mean 50.73
Std Dev 42.45
2
1
0
−1
−2

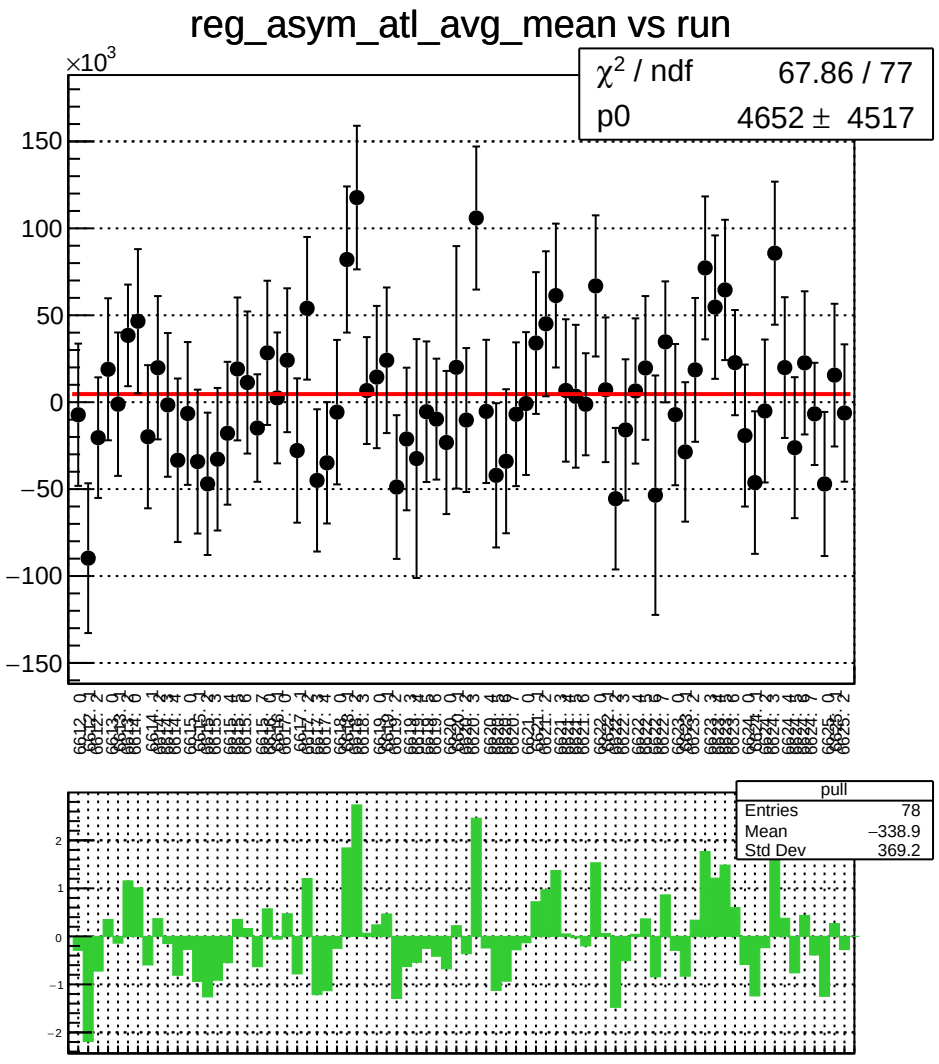

pull1D
Entries 78
Mean 0.02273
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

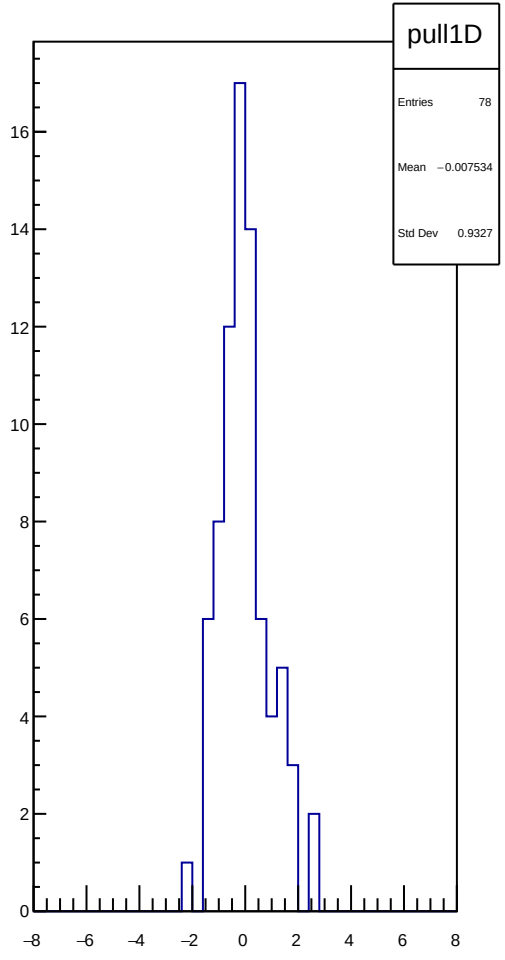

asym_atr2_correction_rms vs run
χ² / ndf 1.108e+04 / 77
p0 7755 ± 6.256
10500
10000
9500
9000
8500
8000
7500
7000
6500

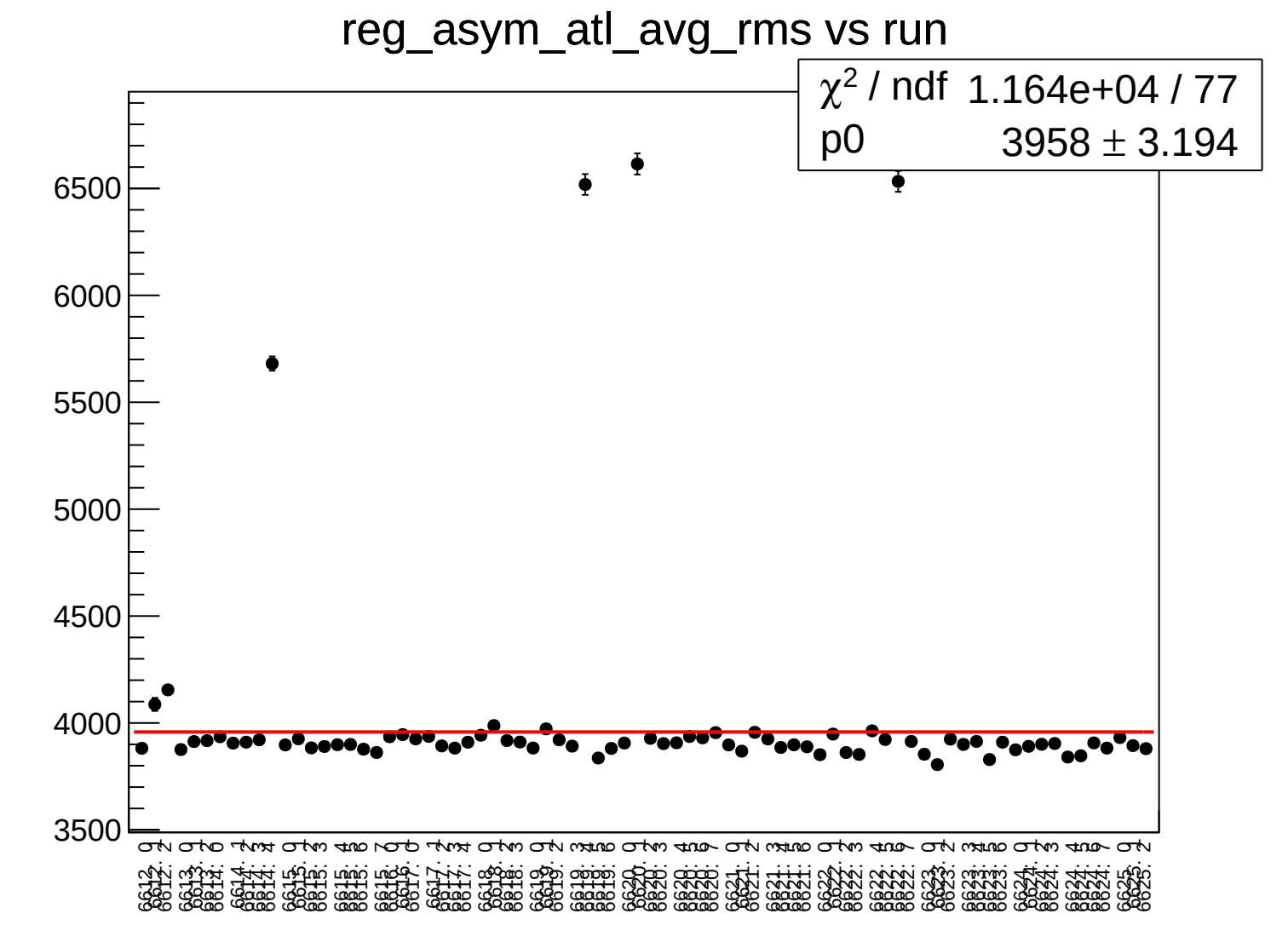

asym_atr2_mean vs run
×10^3
χ² / ndf 65.7 / 77
p0 5739 ± 9454
pull
Entries 78
Mean 67.56
Std Dev 47.94

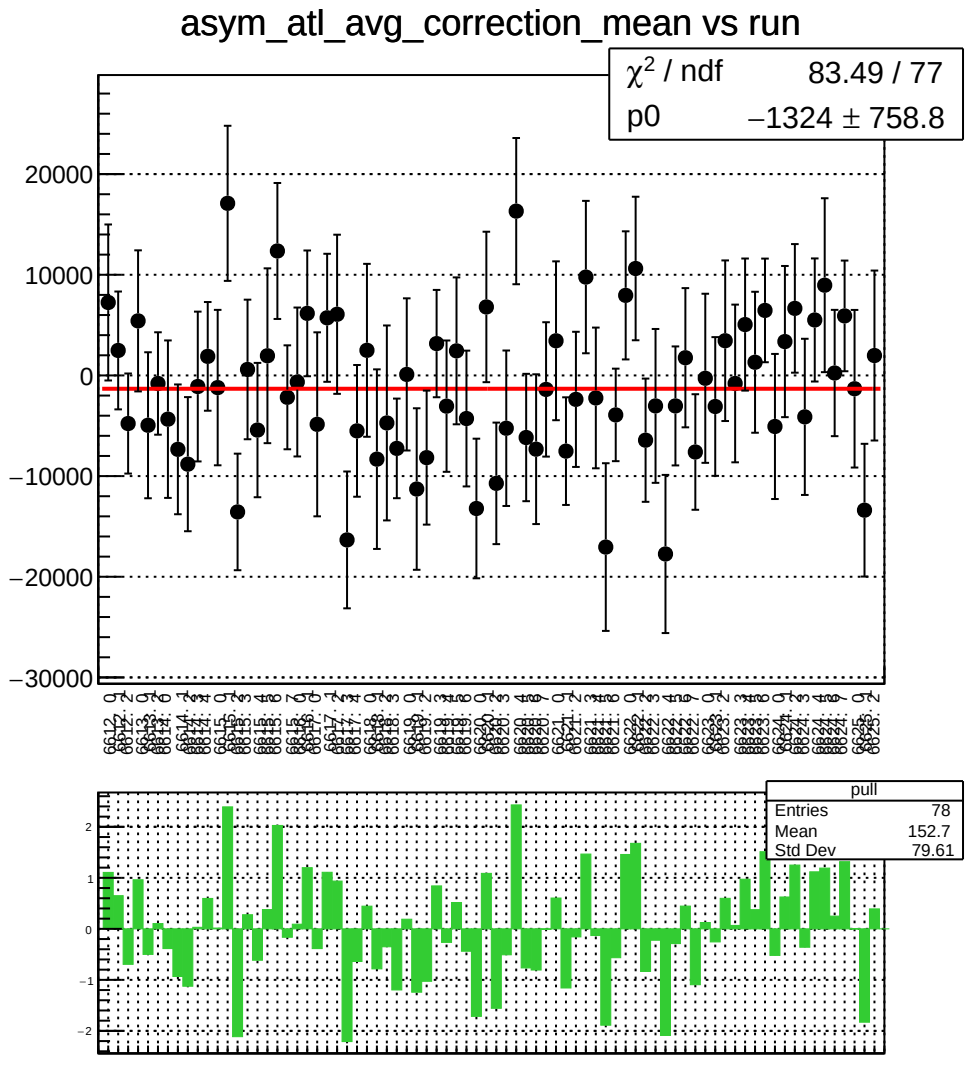

pull1D
Entries 78
Mean −0.01994
Std Dev 0.9176

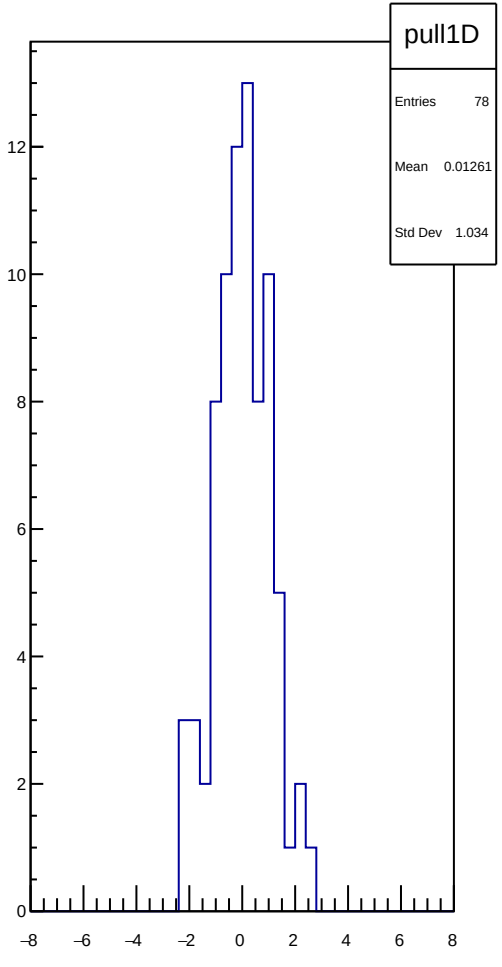

asym_atr2_rms vs run
χ^2 / ndf 8710 / 77
p0 8293 ± 6.685
10500
10000
9500
9000
8500
8000
7500
7000

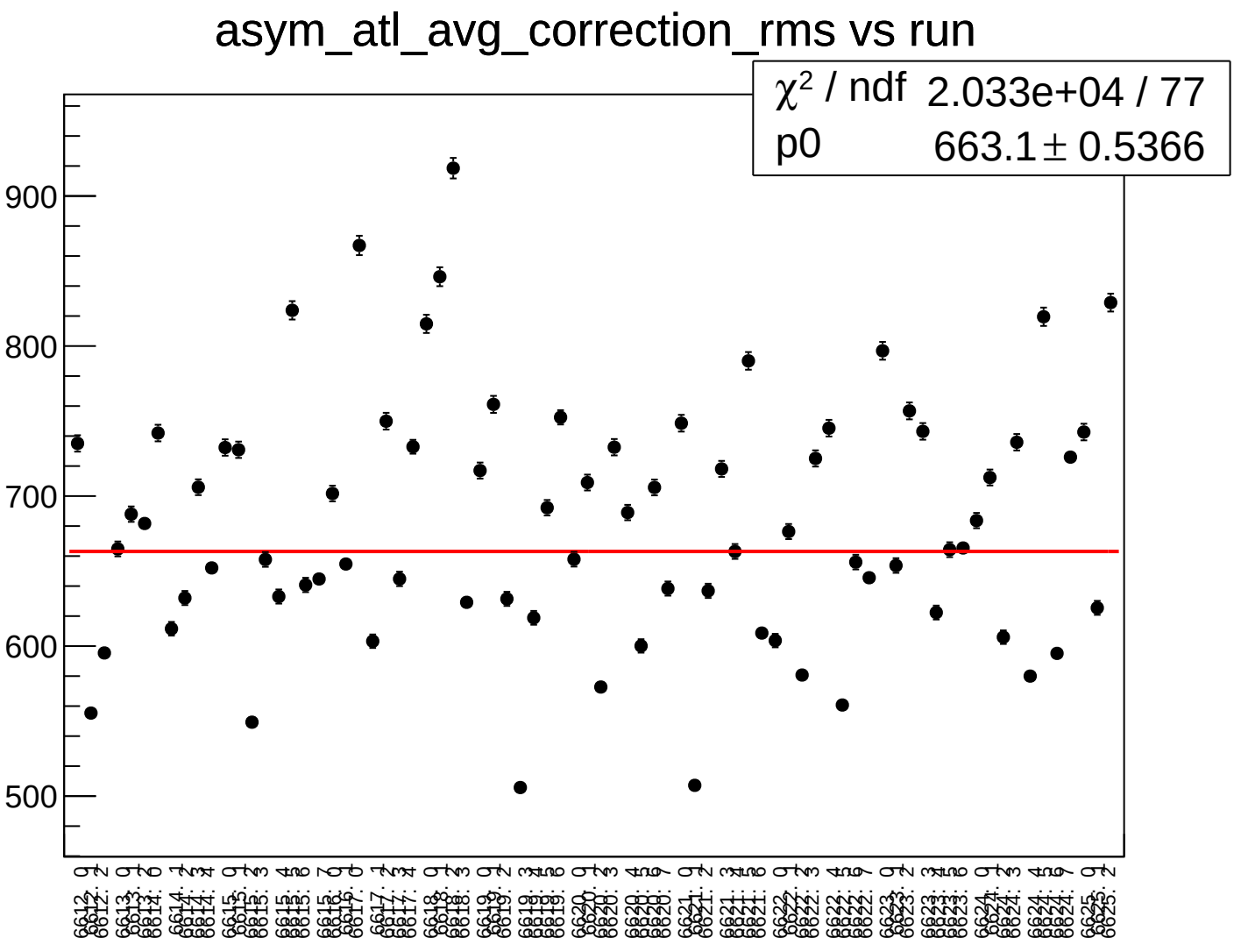

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 67.86 / 77
p0 4652 ± 4517
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −338.9
Std Dev 369.2
2
1
0
−1
−2

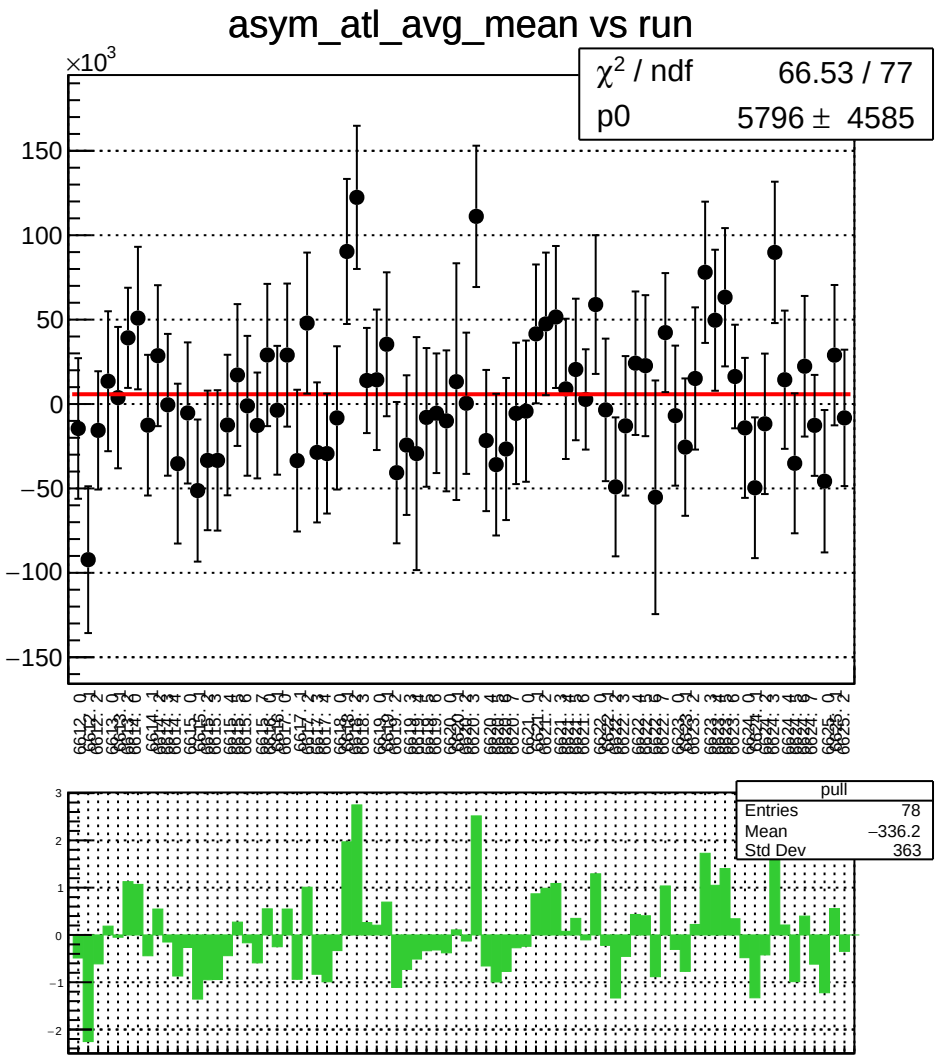

pull1D
Entries 78
Mean −0.007534
Std Dev 0.9327
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

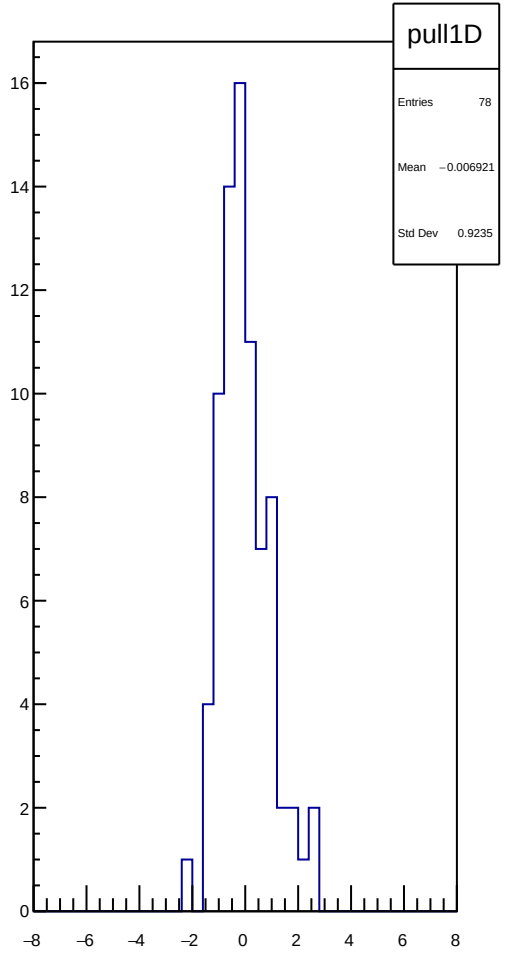

reg_asym_atl_avg_rms vs run
χ² / ndf 1.164e+04 / 77
p0 3958 ± 3.194
6500
6000
5500
5000
4500
4000
3500

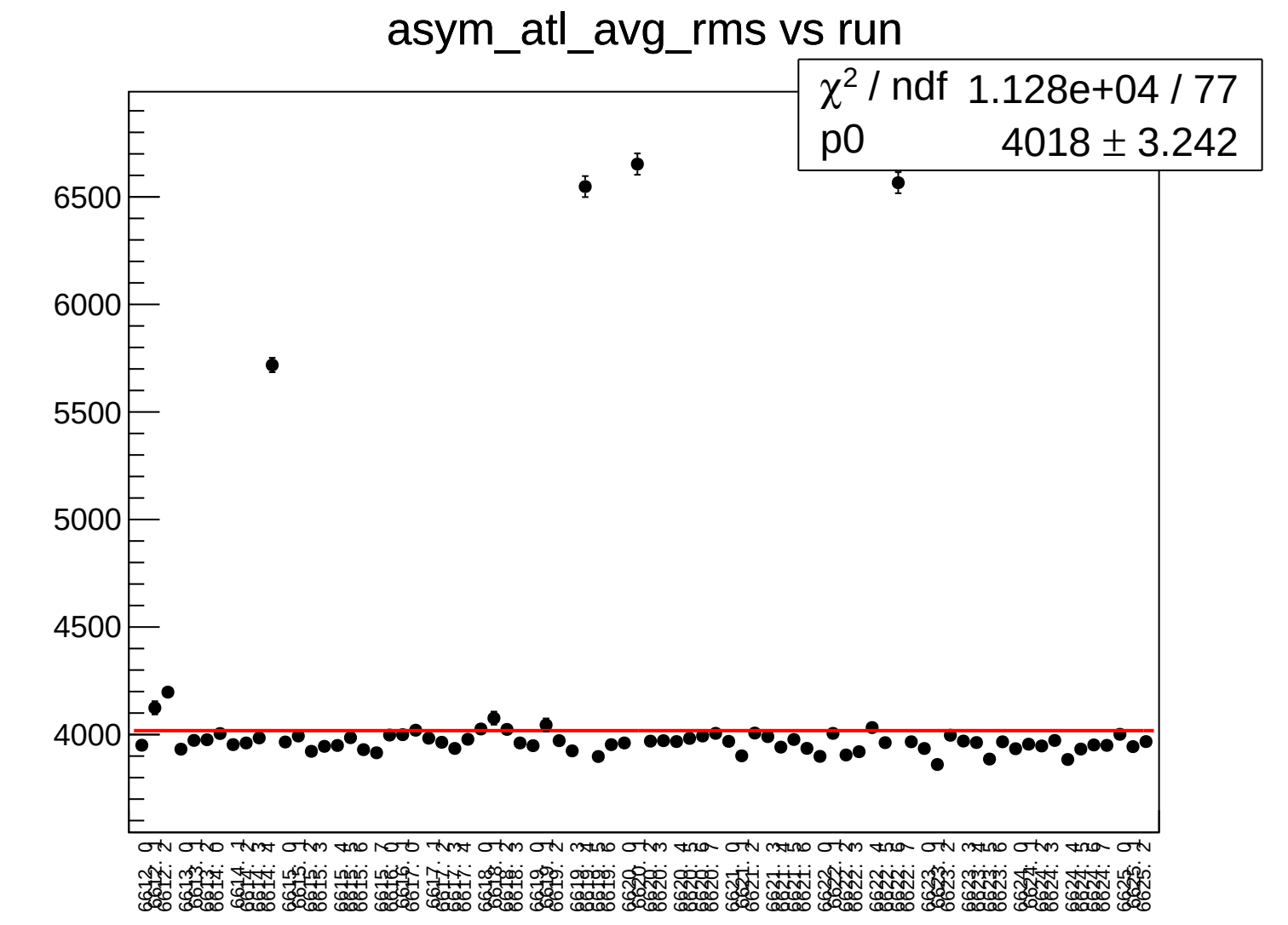

asym_atl_avg_correction_mean vs run
χ² / ndf 83.49 / 77
p0 −1324 ± 758.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 152.7
Std Dev 79.61
2
1
0
−1
−2

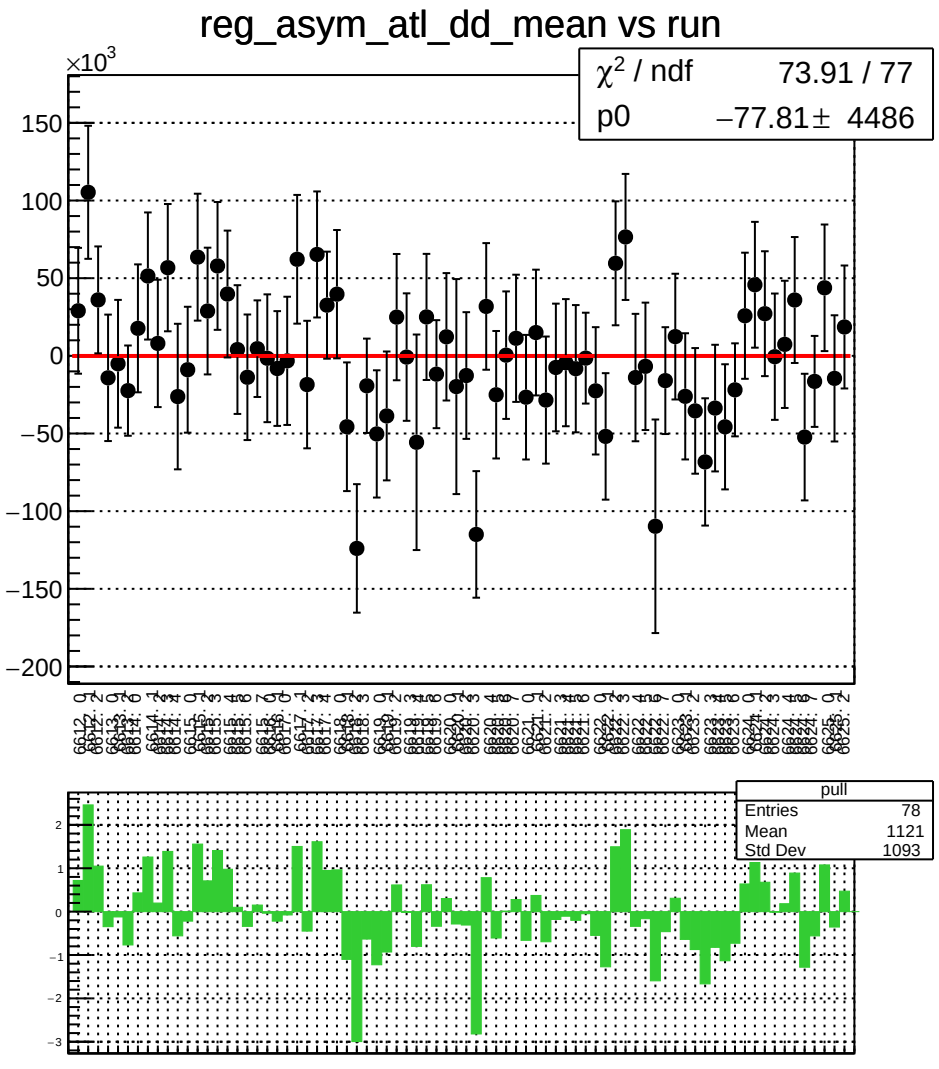

pull1D
Entries 78
Mean 0.01261
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

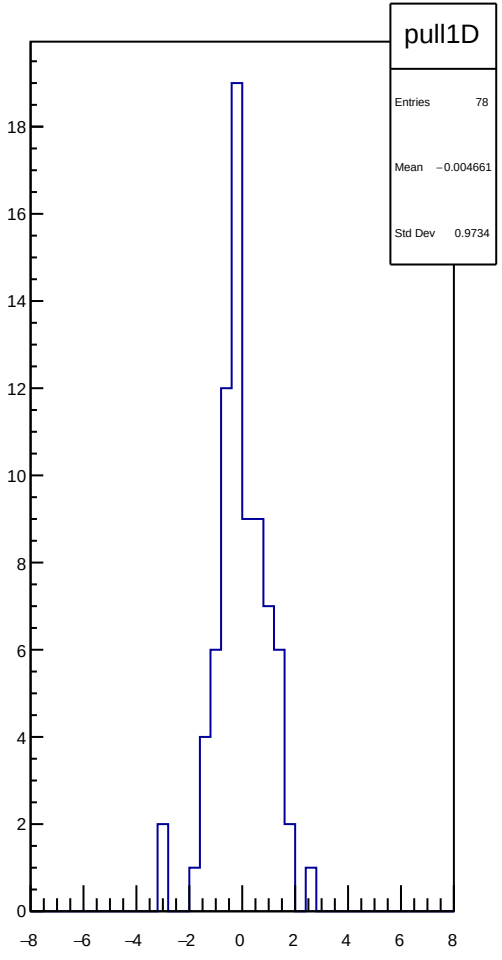

asym_atl_avg_correction_rms vs run
χ² / ndf 2.033e+04 / 77
p0 663.1 ± 0.5366
900
800
700
600
500

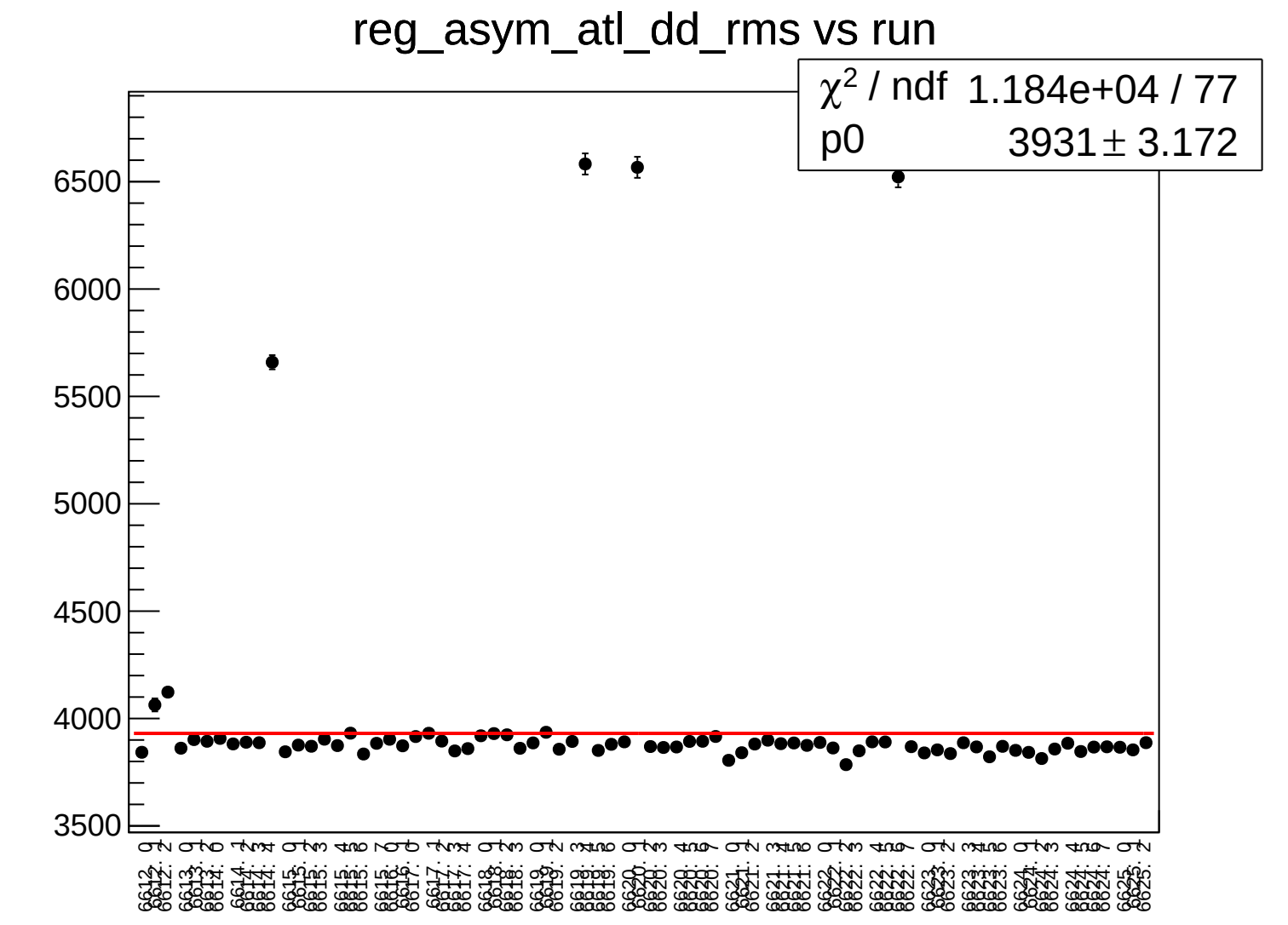

asym_atl_avg_mean vs run
χ² / ndf 66.53 / 77
p0 5796 ± 4585
×10³
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −336.2
Std Dev 363
3
2
1
0
−1
−2

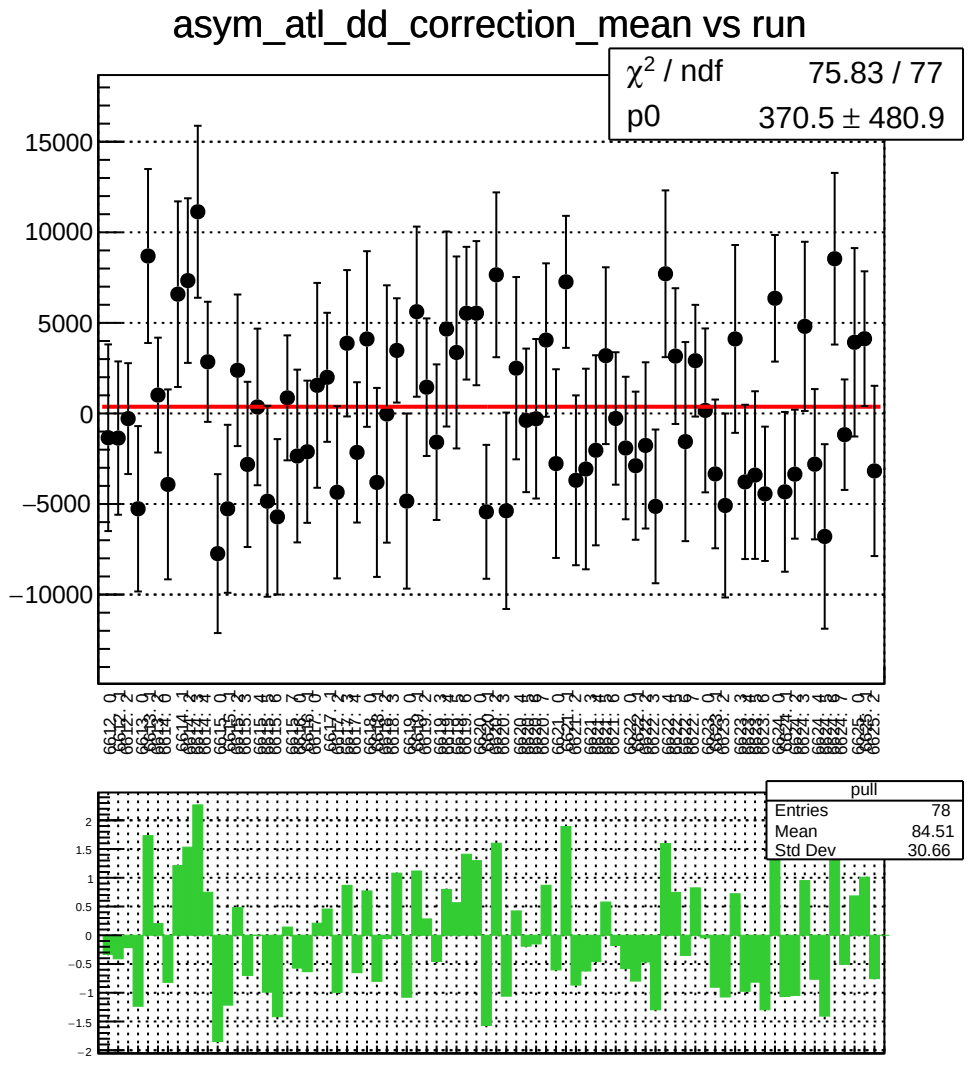

pull1D
Entries 78
Mean −0.006921
Std Dev 0.9235
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

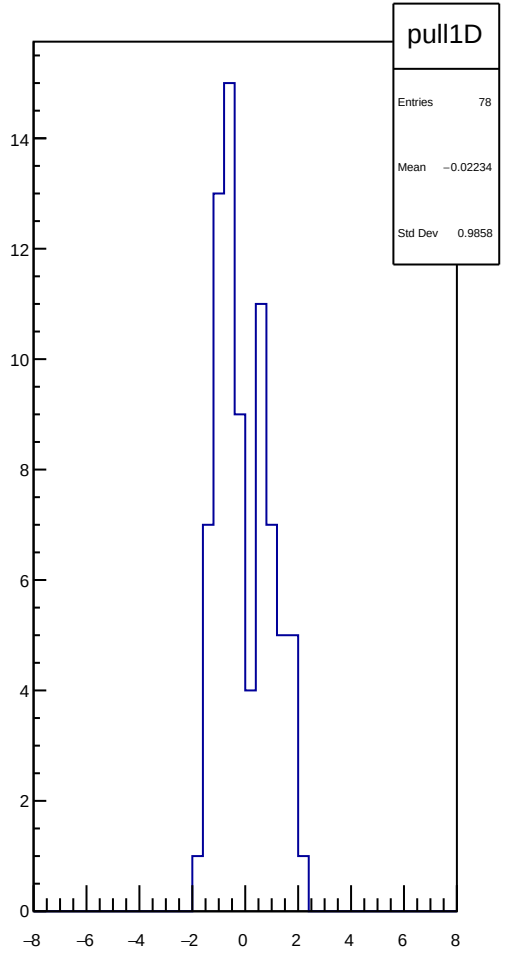

asym_atl_avg_rms vs run
χ² / ndf 1.128e+04 / 77
p0 4018 ± 3.242
6500
6000
5500
5000
4500
4000

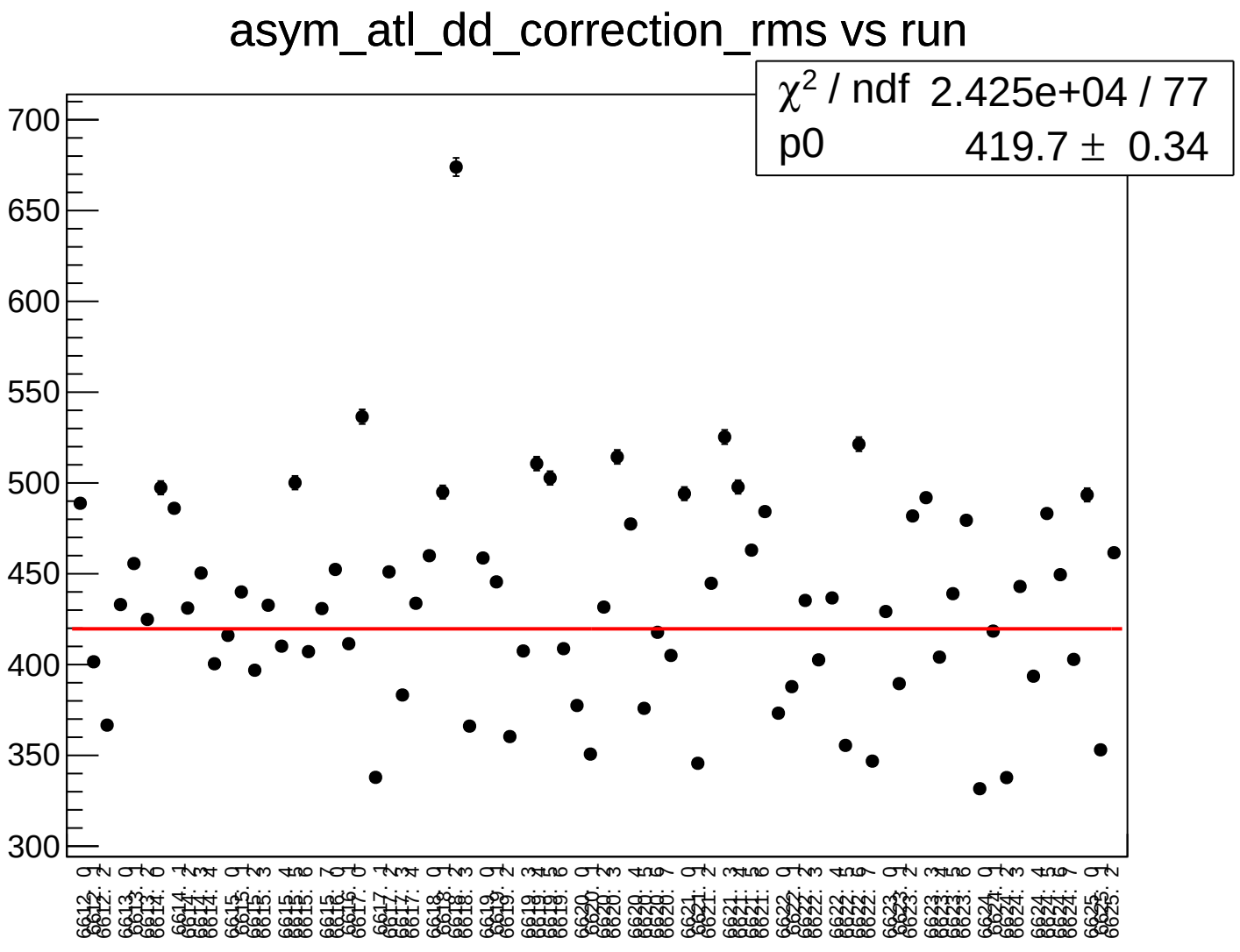

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 73.91 / 77
p0 −77.81± 4486
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 1121
Std Dev 1093
2
1
0
−1
−2
−3

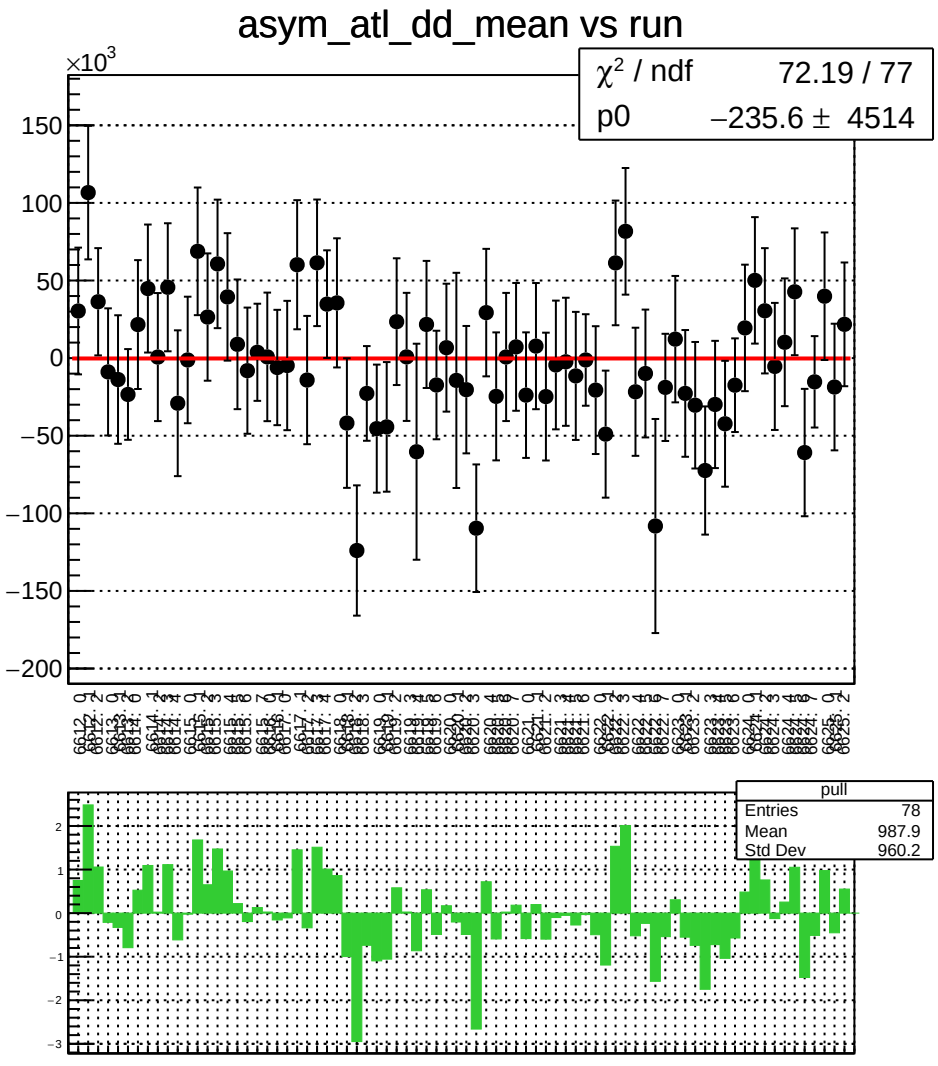

pull1D
Entries 78
Mean −0.004661
Std Dev 0.9734
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

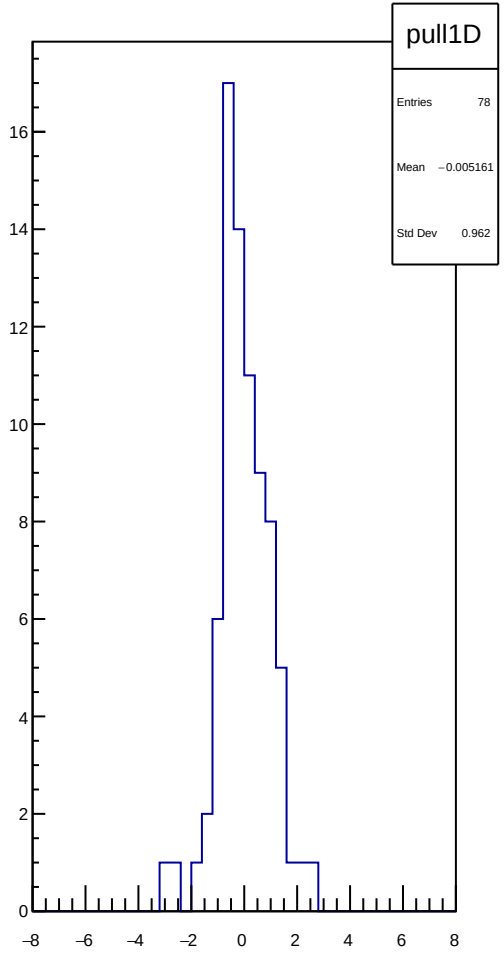

reg_asym_atl_dd_rms vs run
χ² / ndf 1.184e+04 / 77
p0 3931 ± 3.172
6500
6000
5500
5000
4500
4000
3500

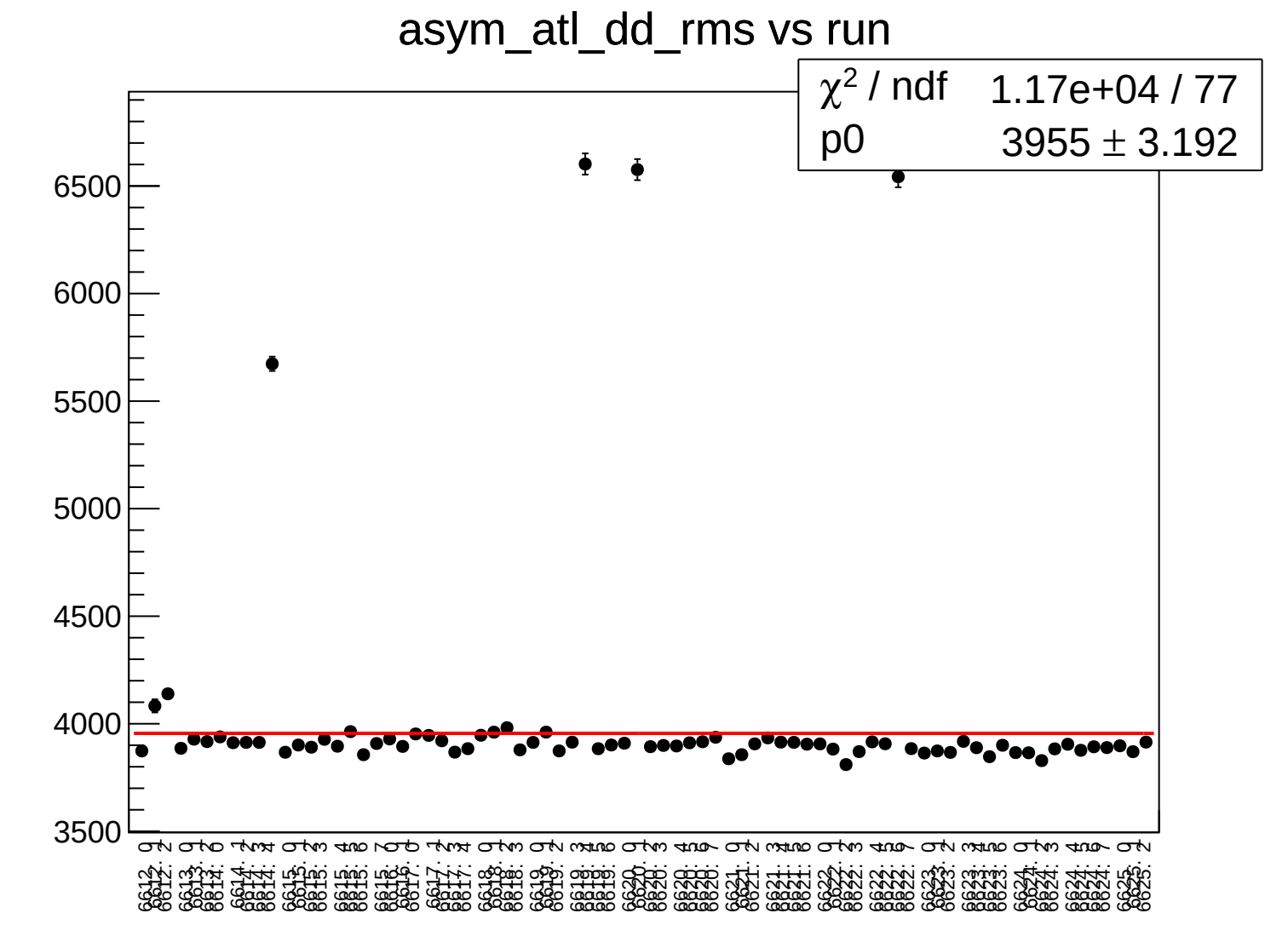

asym_atl_dd_correction_mean vs run
χ² / ndf 75.83 / 77
p0 370.5 ± 480.9
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 84.51
Std Dev 30.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

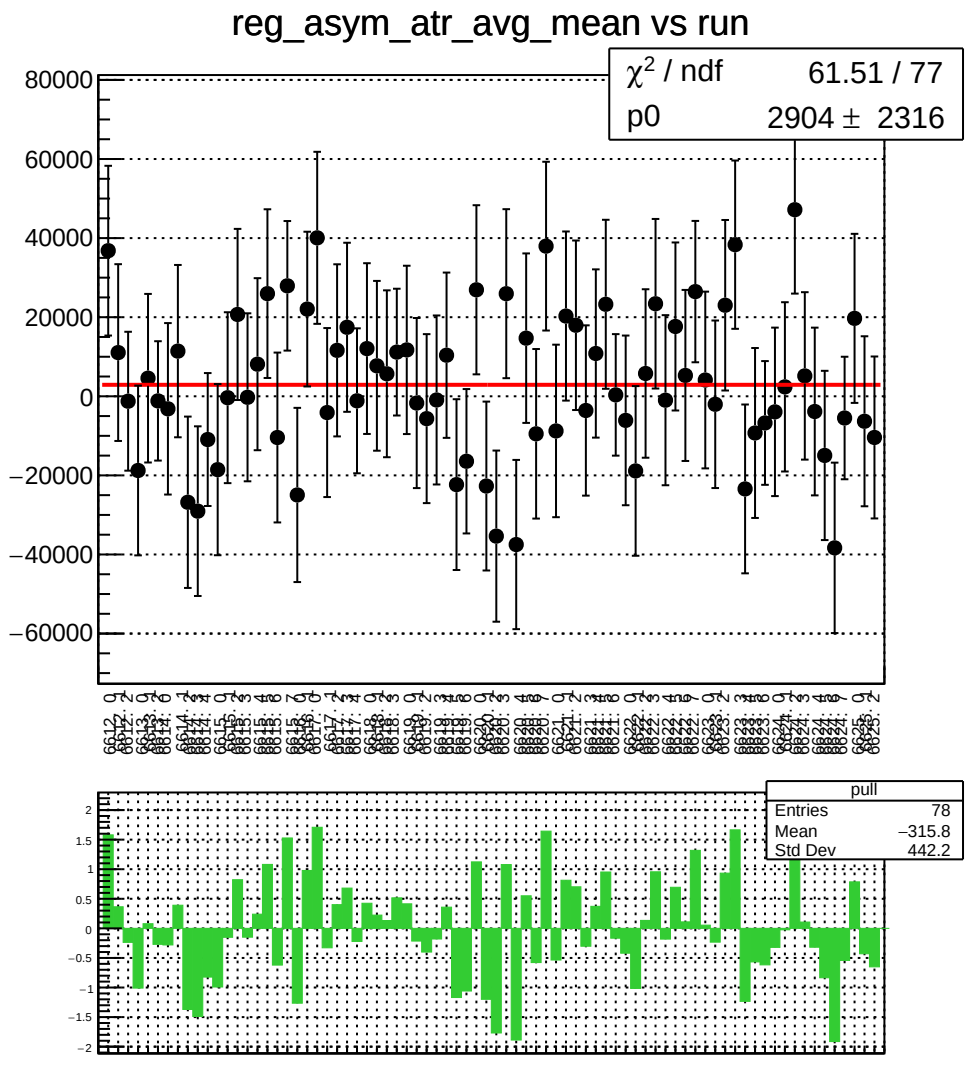

pull1D
Entries 78
Mean −0.02234
Std Dev 0.9858
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

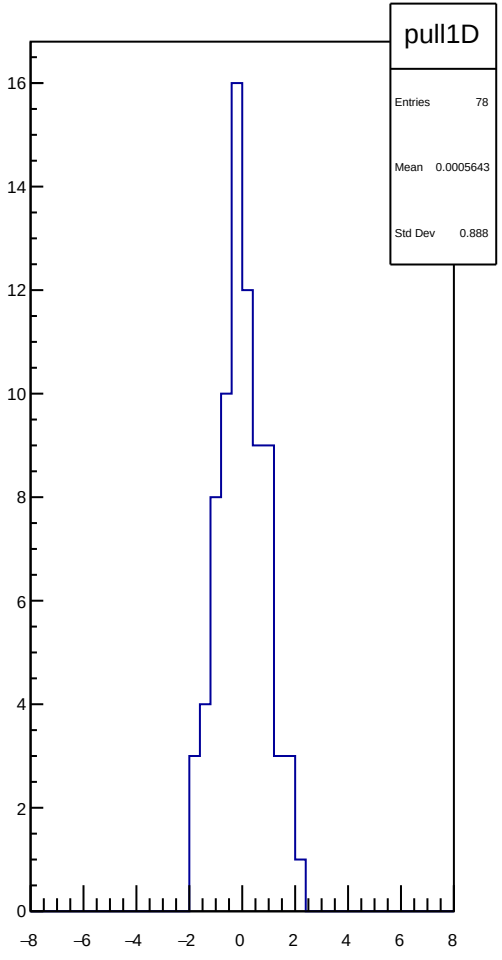

asym_atl_dd_correction_rms vs run
χ² / ndf 2.425e+04 / 77
p0 419.7 ± 0.34
700
650
600
550
500
450
400
350
300

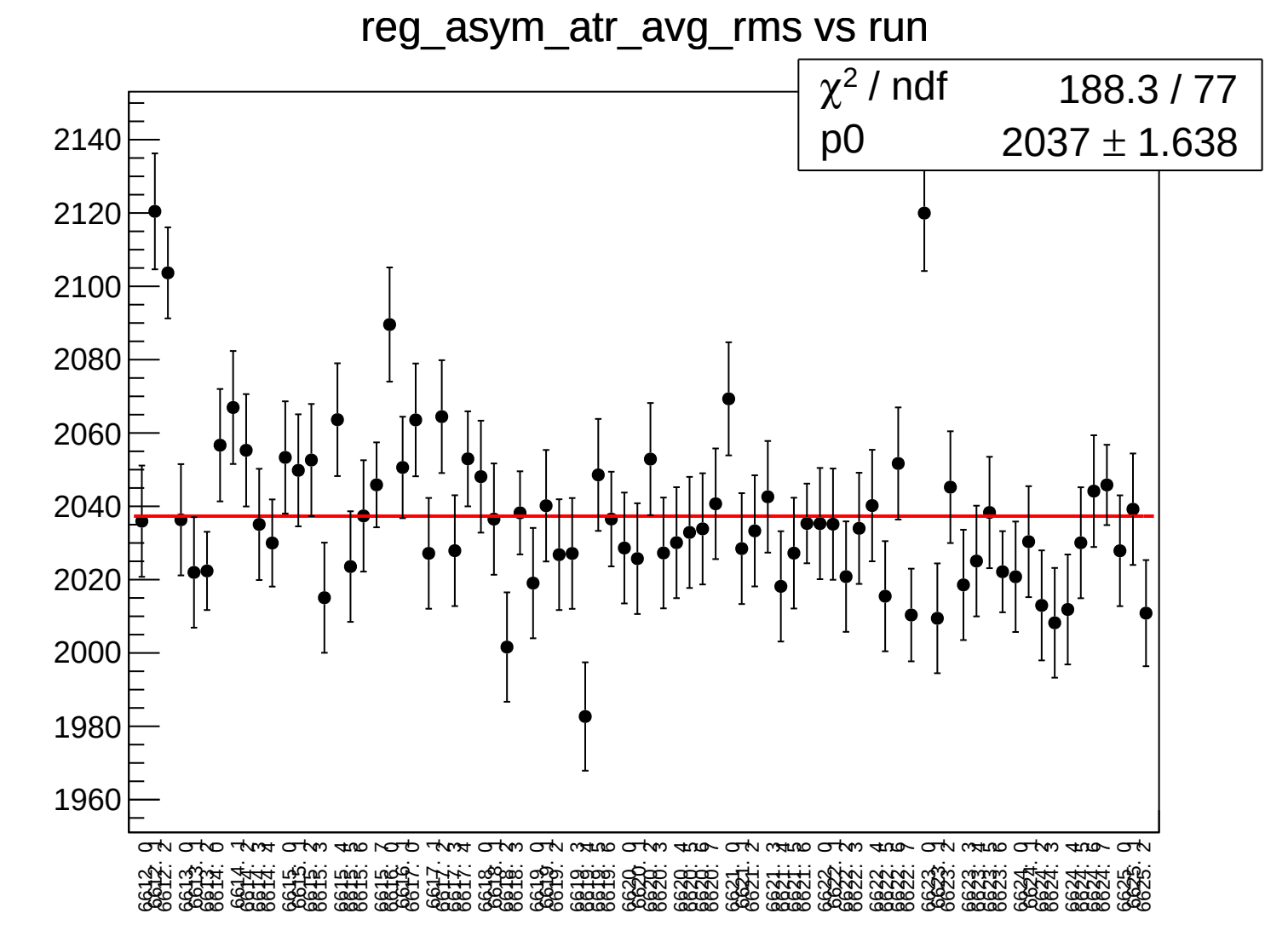

asym_atl_dd_mean vs run
×10^3
χ² / ndf 72.19 / 77
p0 −235.6 ± 4514
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 987.9
Std Dev 960.2
2
1
0
−1
−2
−3

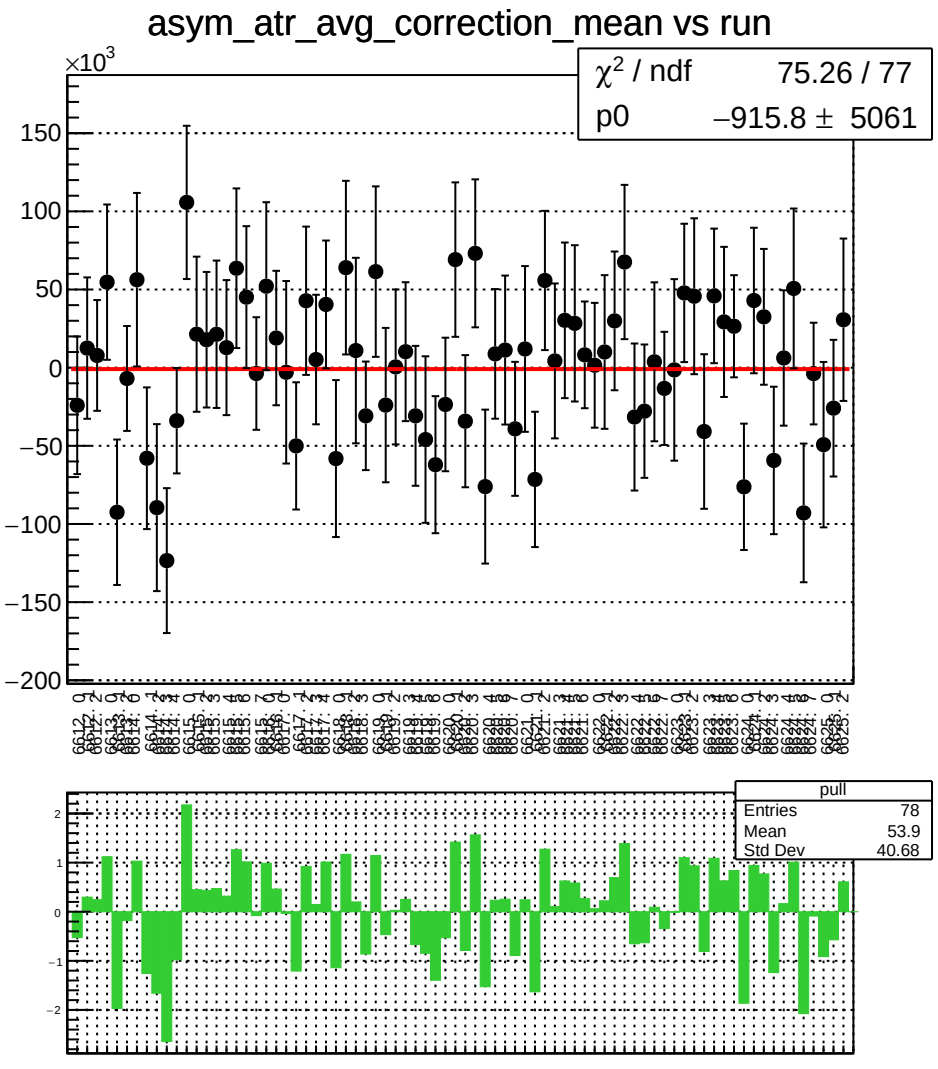

pull1D
Entries 78
Mean −0.005161
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

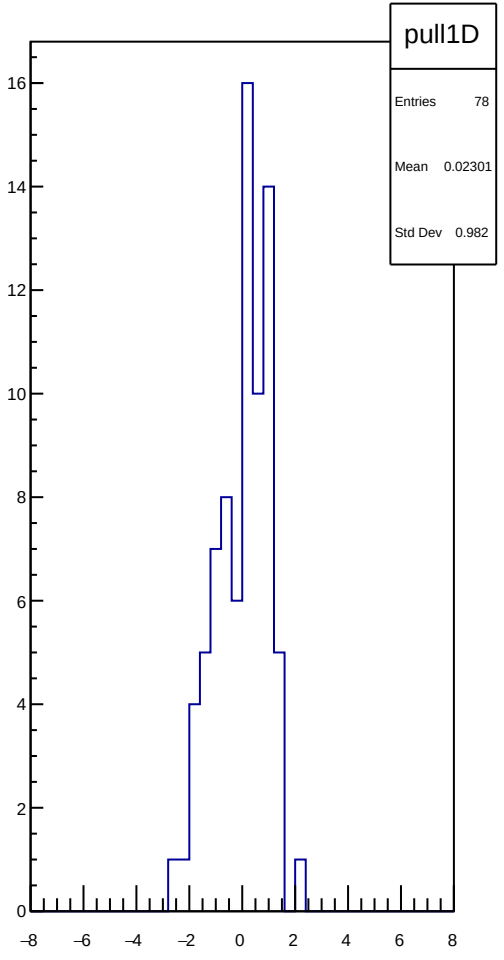

asym_atl_dd_rms vs run
χ² / ndf 1.17e+04 / 77
p0 3955 ± 3.192
6500
6000
5500
5000
4500
4000
3500

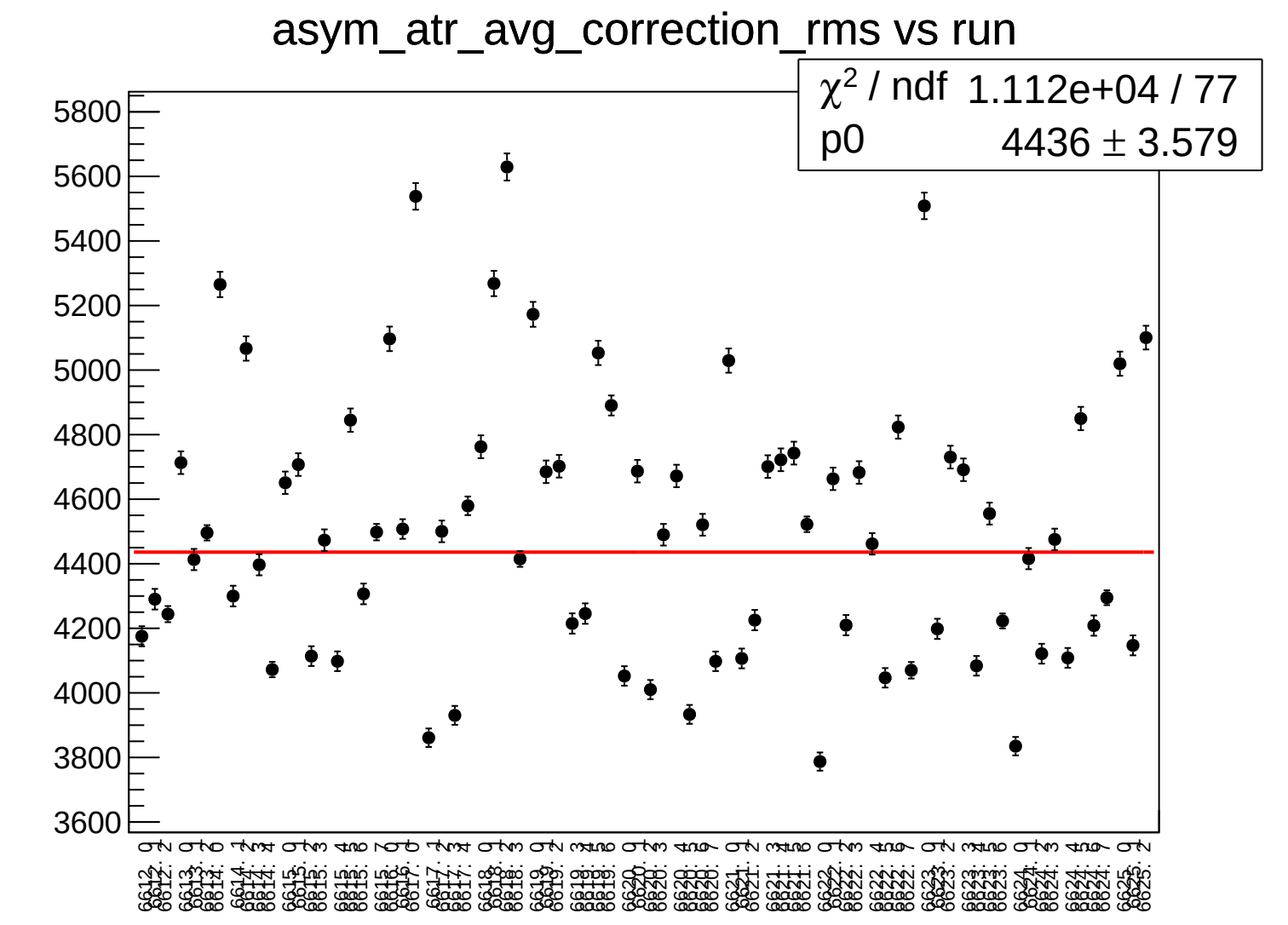

reg_asym_atr_avg_mean vs run
χ² / ndf 61.51 / 77
p0 2904 ± 2316
pull
Entries 78
Mean −315.8
Std Dev 442.2

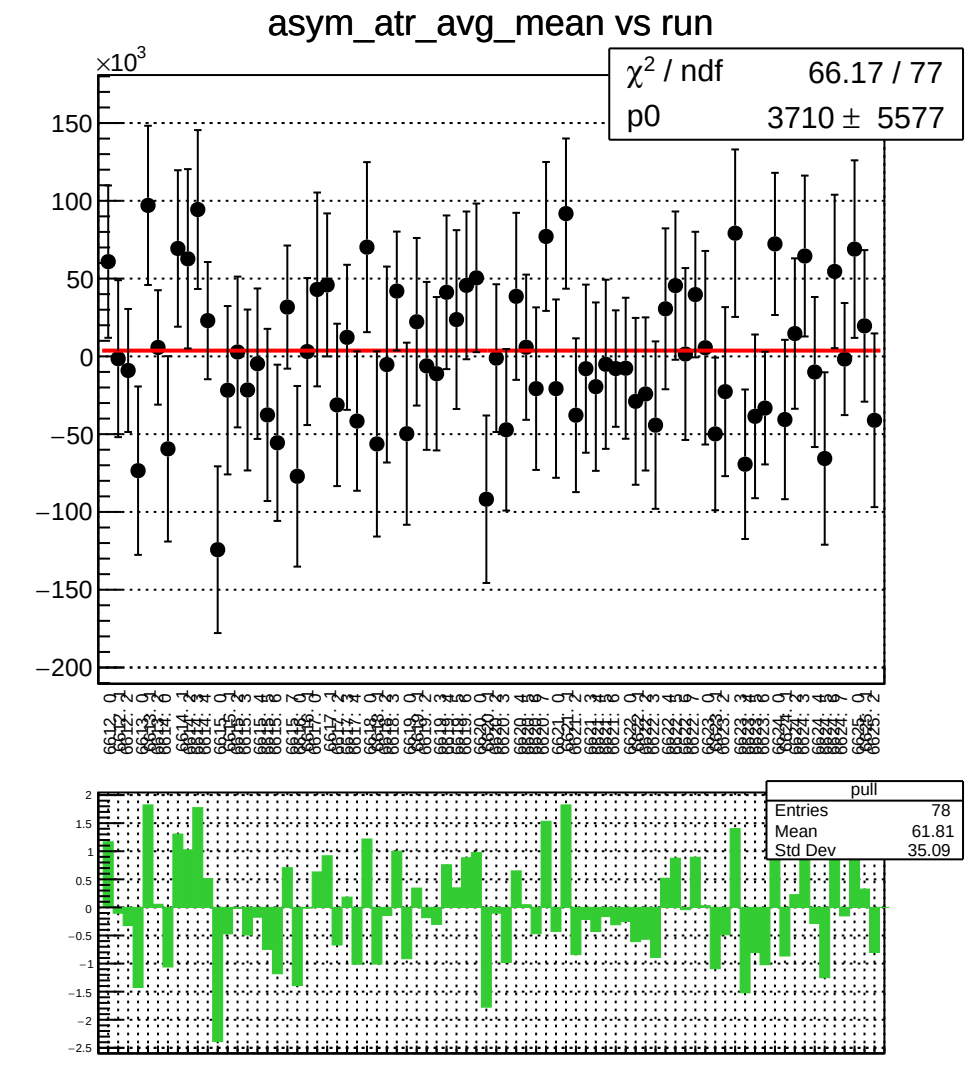

pull1D
Entries 78
Mean 0.0005643
Std Dev 0.888

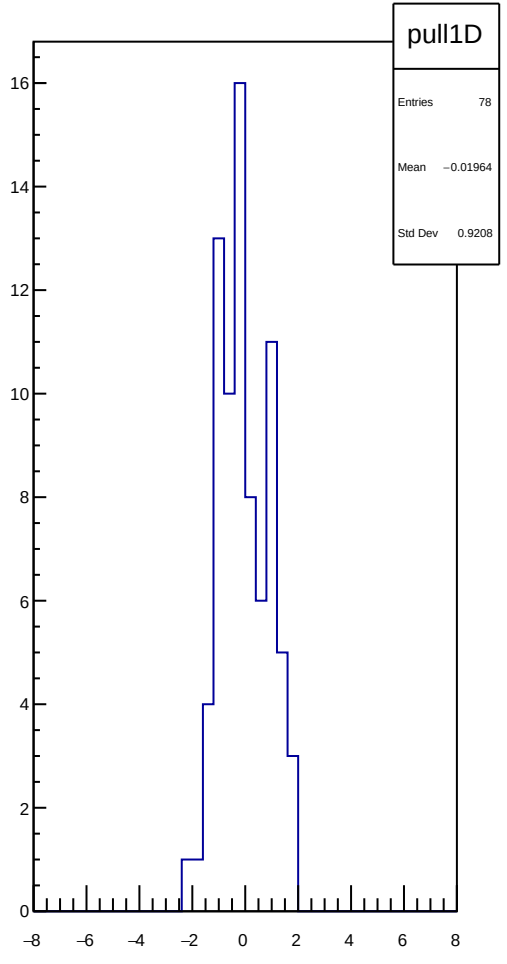

reg_asym_atr_avg_rms vs run
χ² / ndf 188.3 / 77
p0 2037 ± 1.638
2140
2120
2100
2080
2060
2040
2020
2000
1980
1960

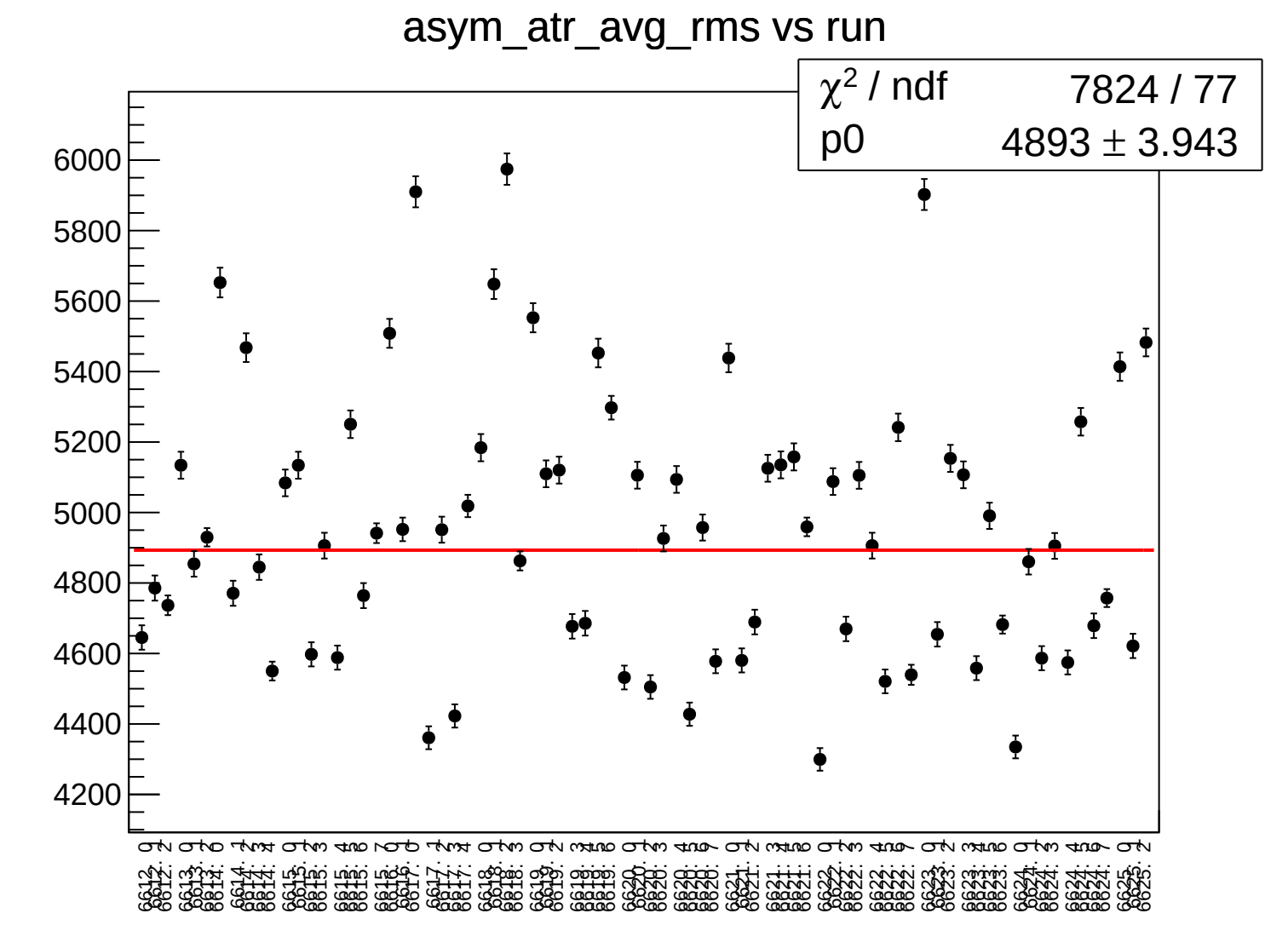

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 75.26 / 77
p0 −915.8 ± 5061
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 53.9
Std Dev 40.68
2
1
0
−1
−2

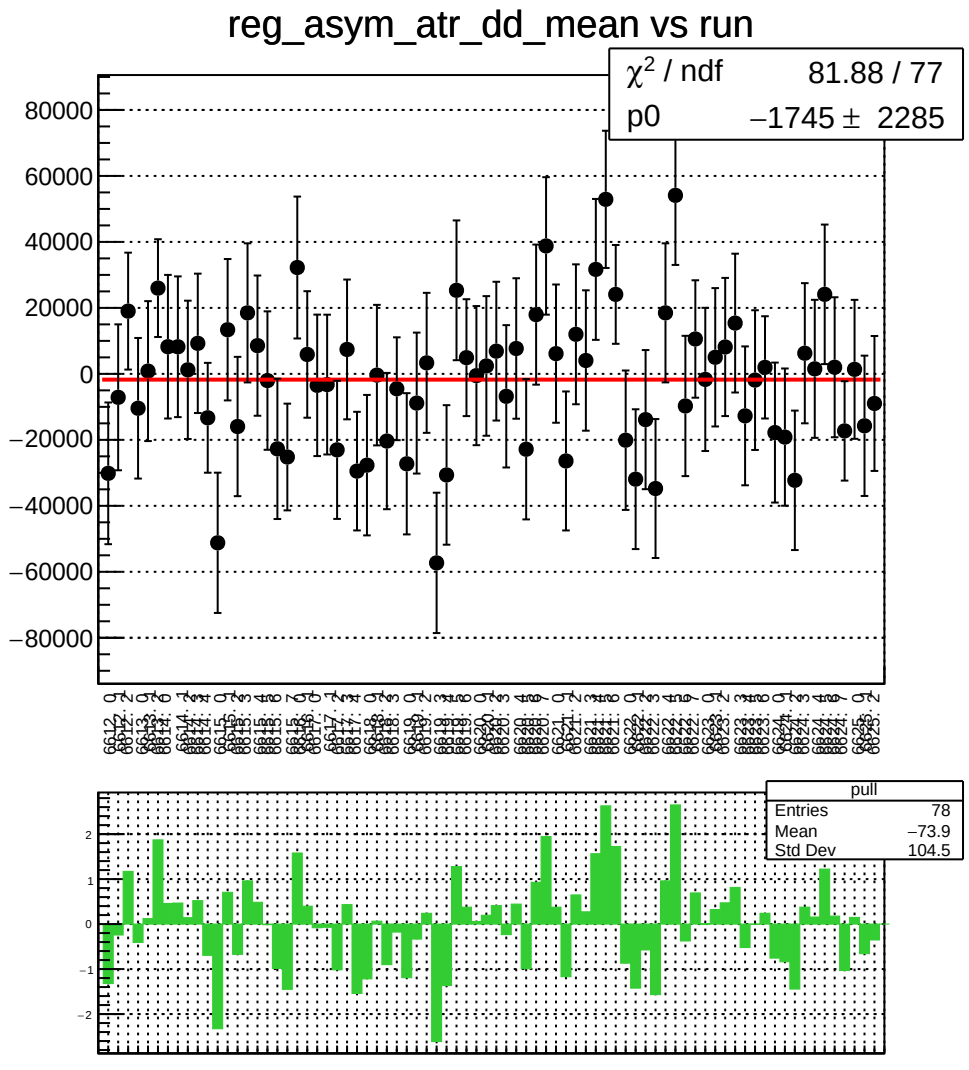

pull1D
Entries 78
Mean 0.02301
Std Dev 0.982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

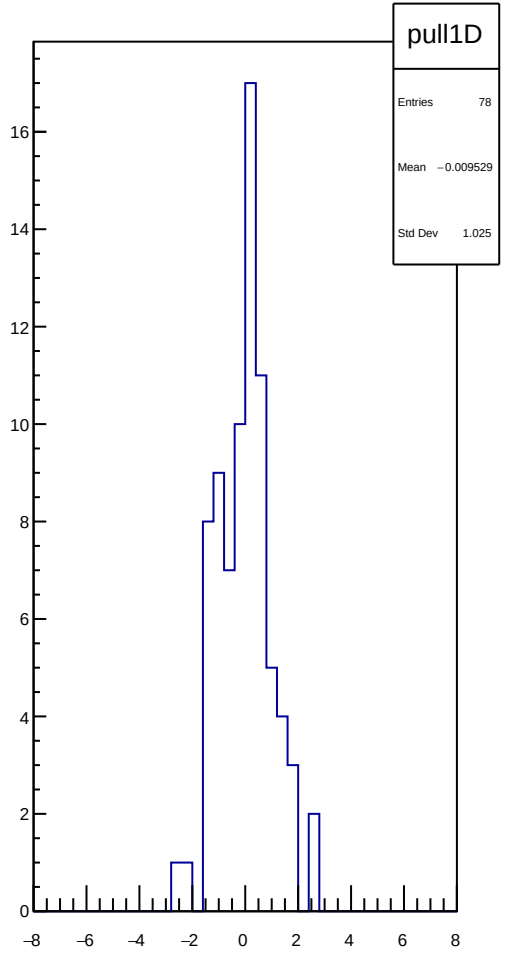

asym_atr_avg_correction_rms vs run
χ² / ndf 1.112e+04 / 77
p0 4436 ± 3.579
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

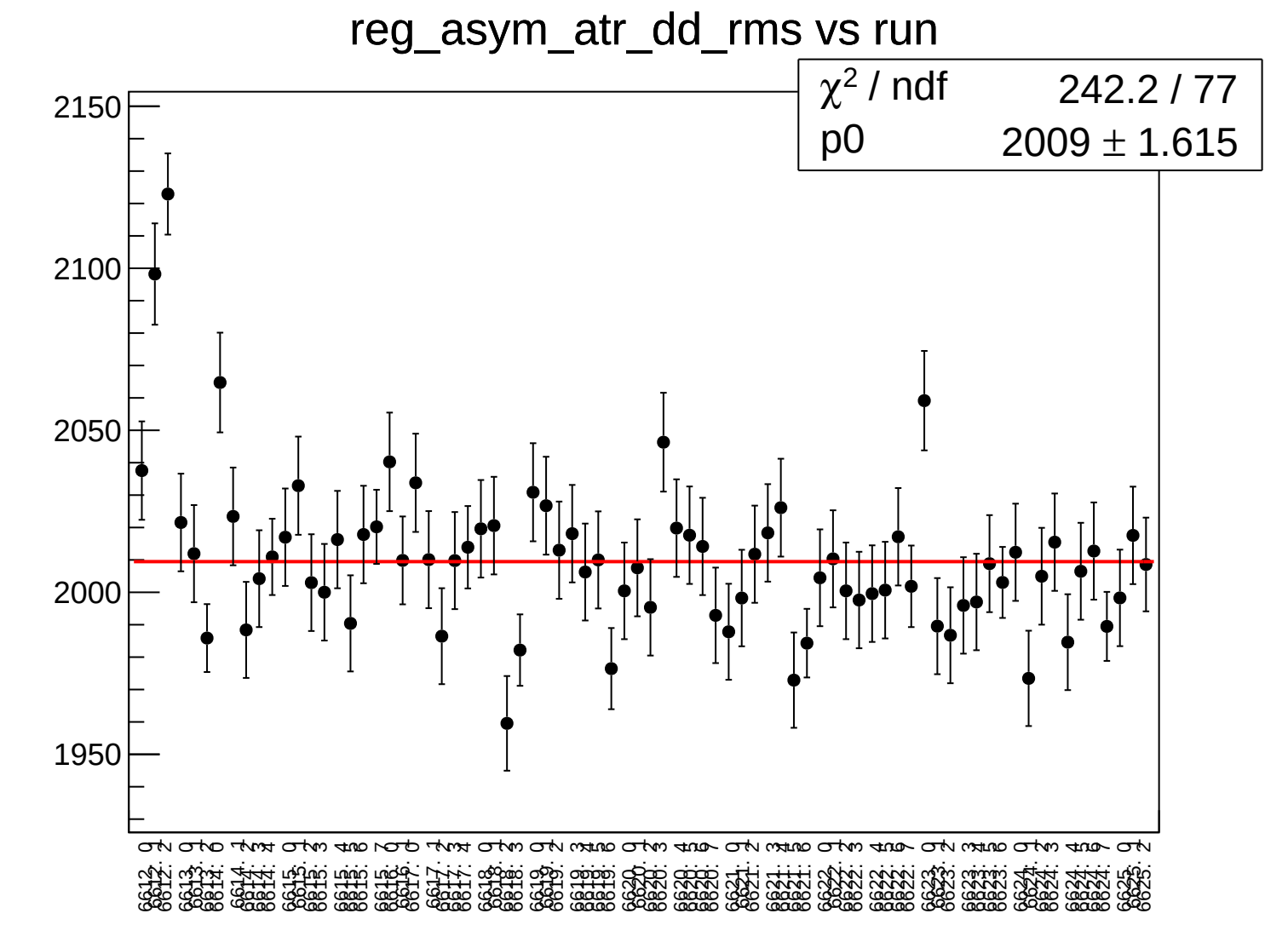

asym_atr_avg_mean vs run
×10^3
χ² / ndf 66.17 / 77
p0 3710 ± 5577
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 61.81
Std Dev 35.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

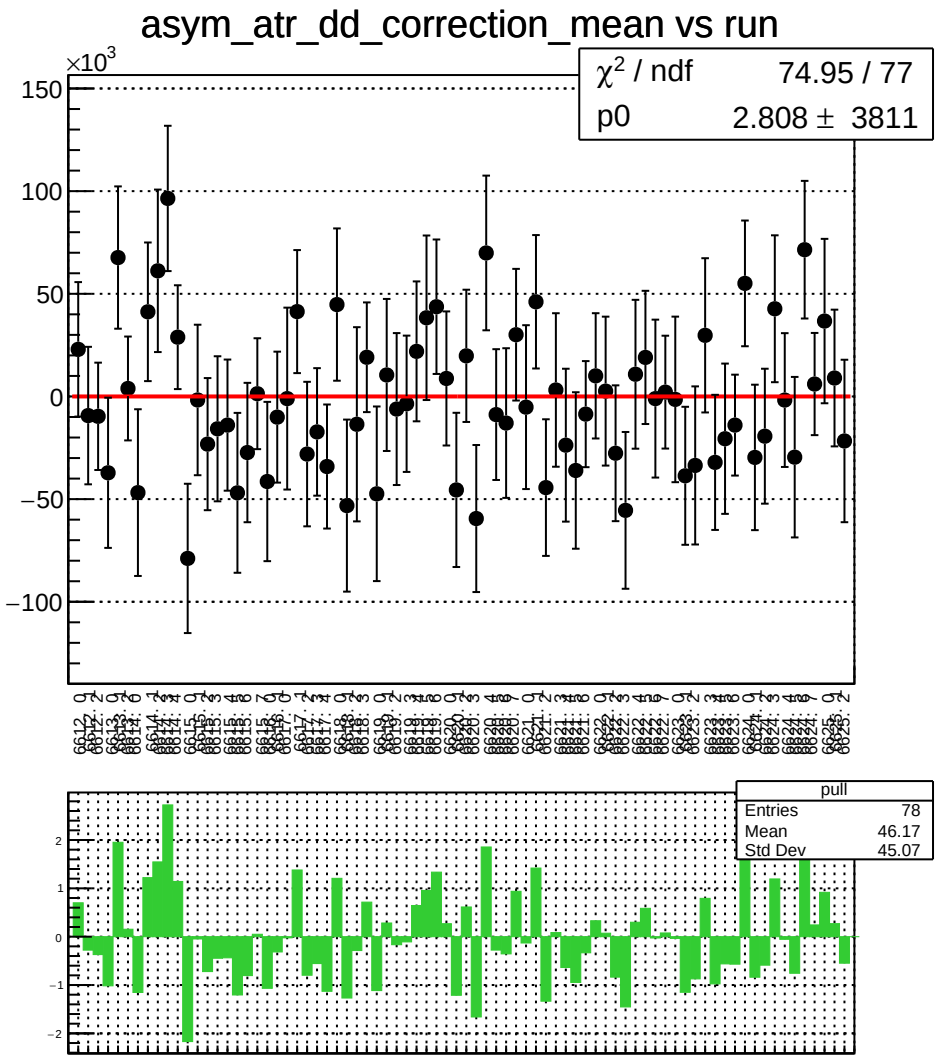

pull1D
Entries 78
Mean −0.01964
Std Dev 0.9208
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

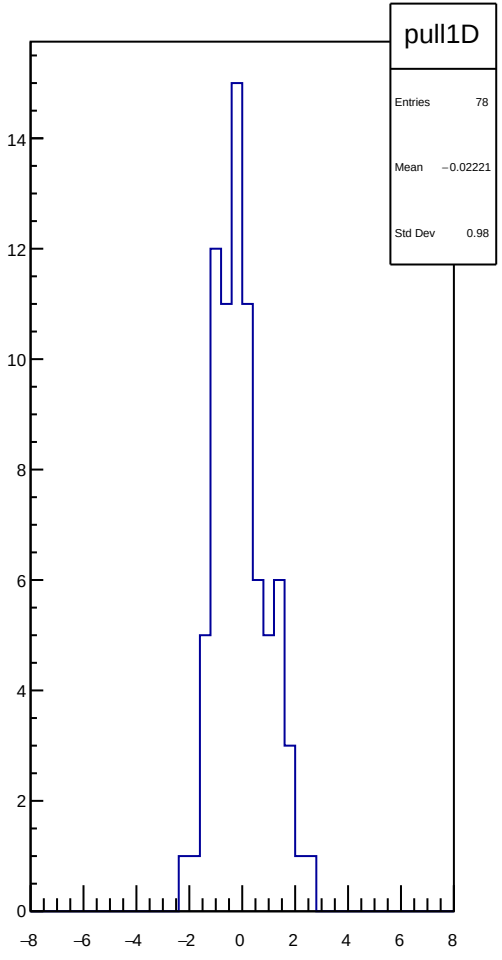

asym_atr_avg_rms vs run
χ² / ndf 7824 / 77
p0 4893 ± 3.943
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

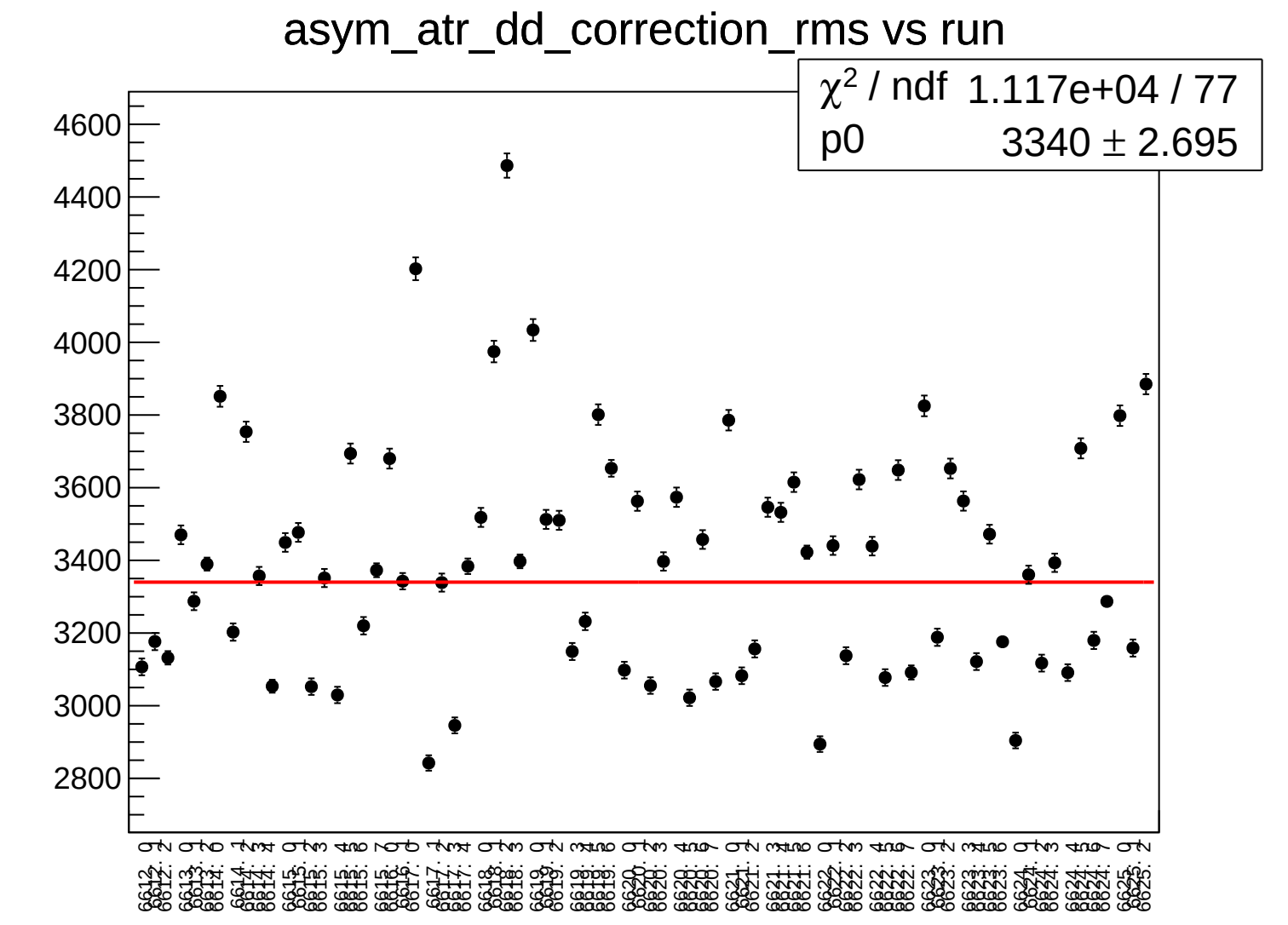

reg_asym_atr_dd_mean vs run
χ² / ndf 81.88 / 77
p0 −1745 ± 2285
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 78
Mean −73.9
Std Dev 104.5
2
1
0
−1
−2

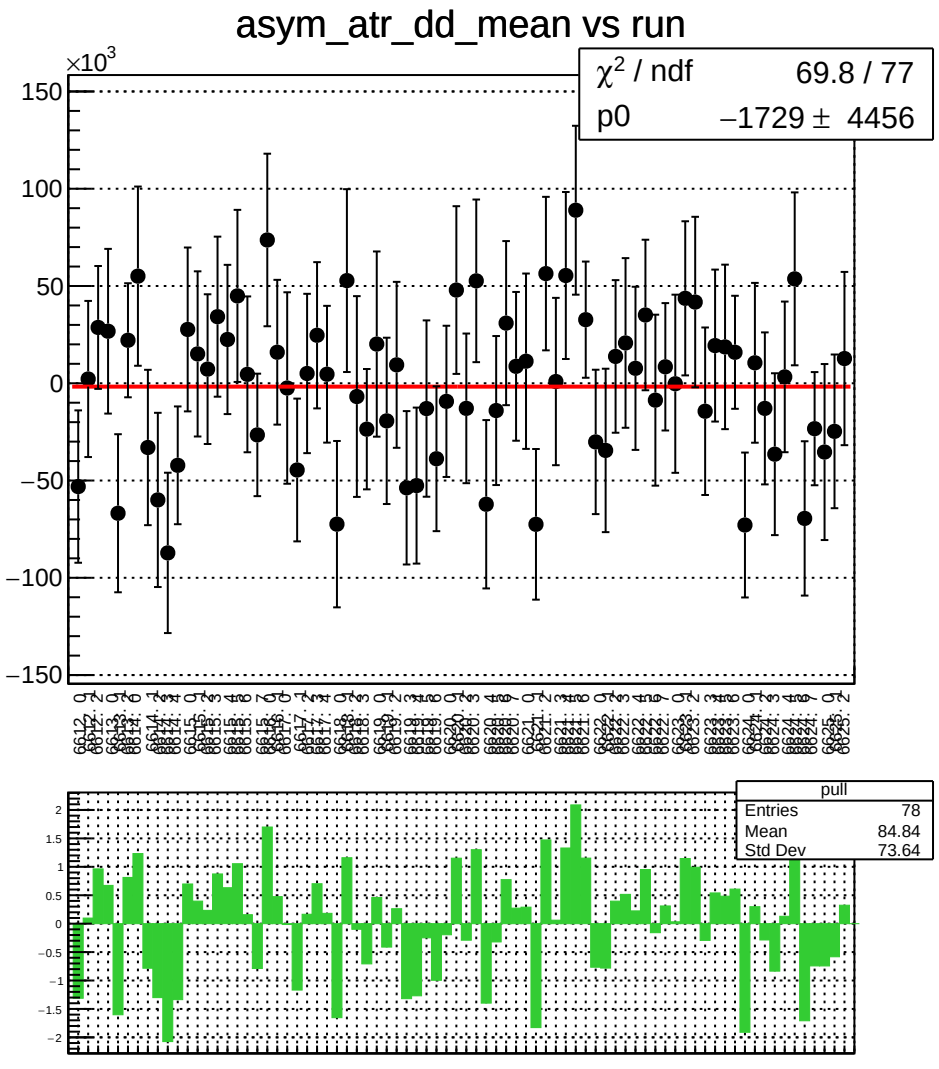

pull1D
Entries 78
Mean −0.009529
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

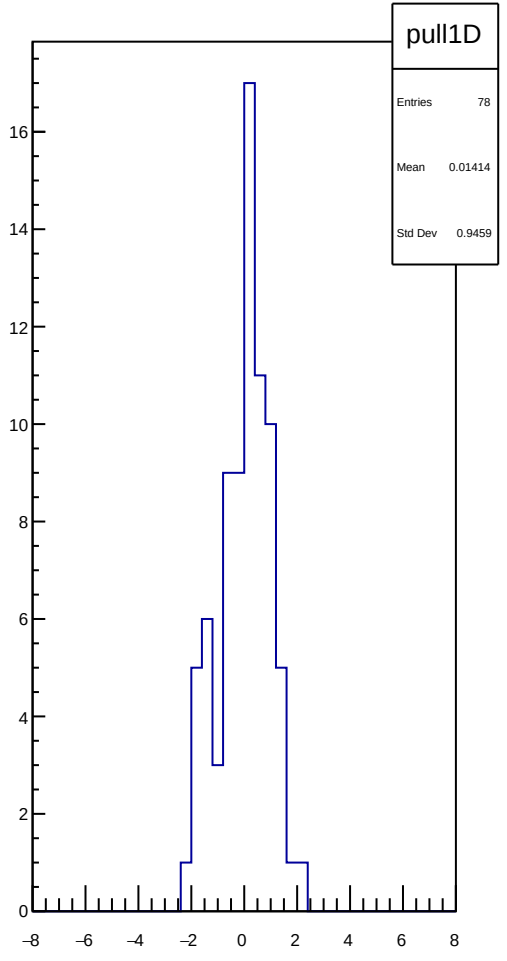

reg_asym_atr_dd_rms vs run
χ² / ndf 242.2 / 77
p0 2009 ± 1.615
2150
2100
2050
2000
1950

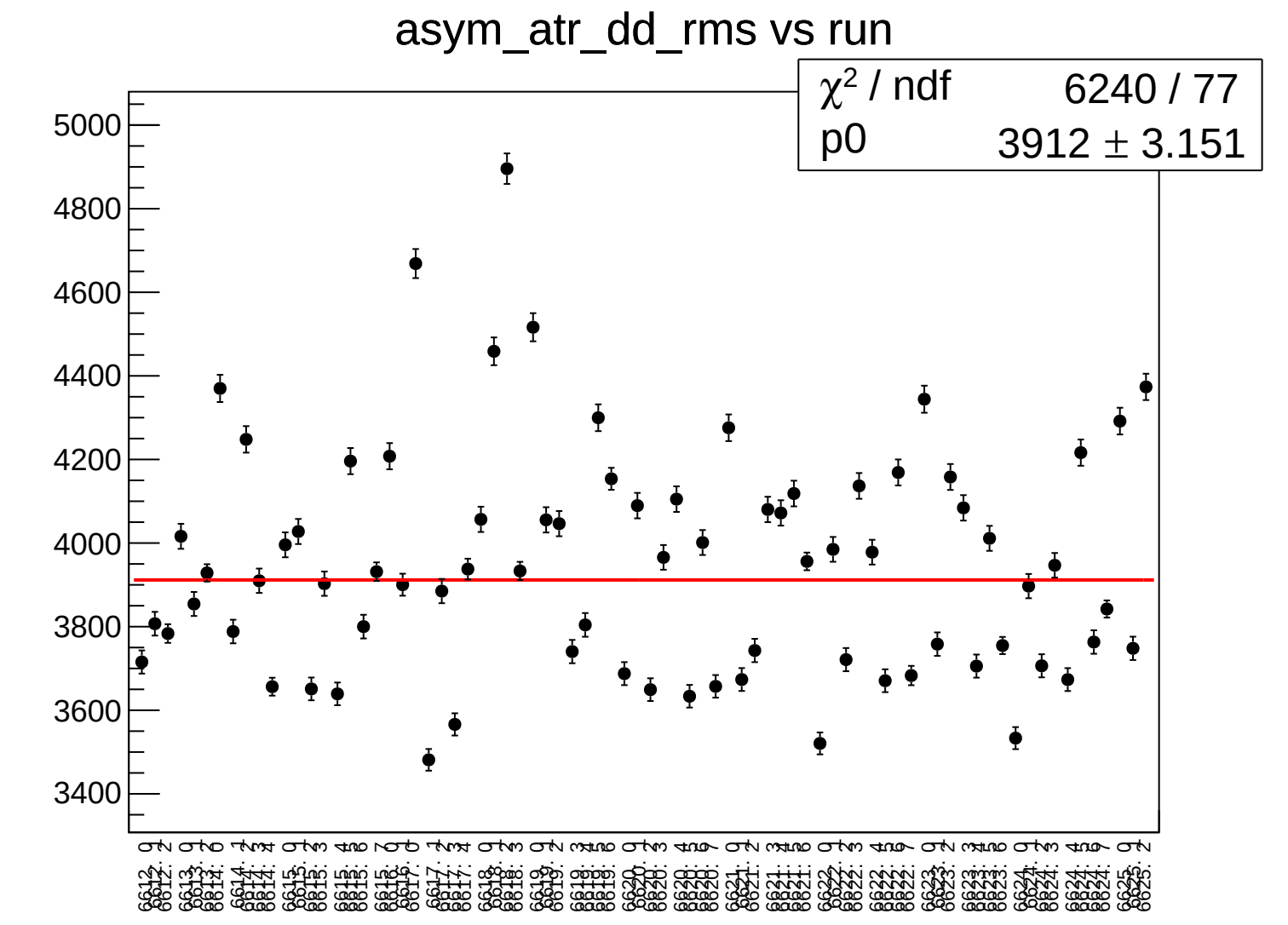

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 74.95 / 77
p0 2.808 ± 3811
150
100
50
0
−50
−100
pull
Entries 78
Mean 46.17
Std Dev 45.07
2
1
0
−1
−2

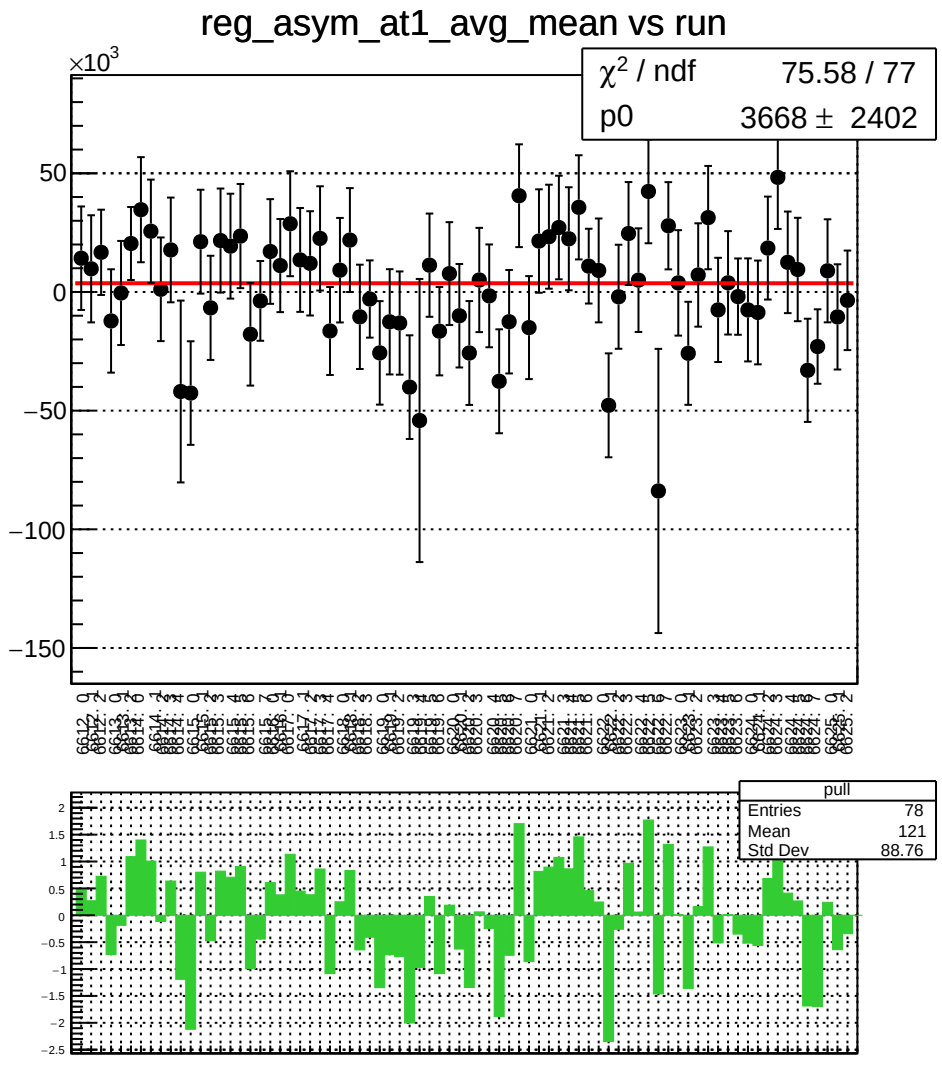

pull1D
Entries 78
Mean −0.02221
Std Dev 0.98
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

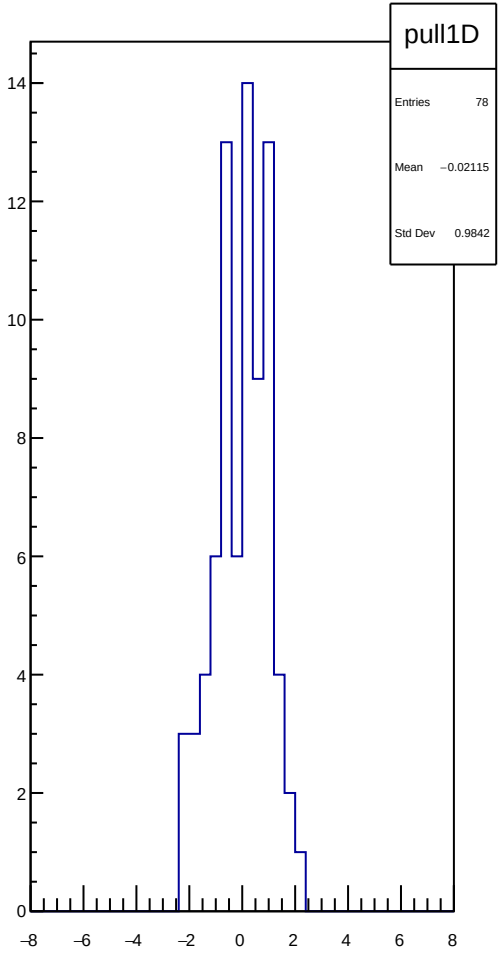

asym_atr_dd_correction_rms vs run
χ² / ndf 1.117e+04 / 77
p0 3340 ± 2.695
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

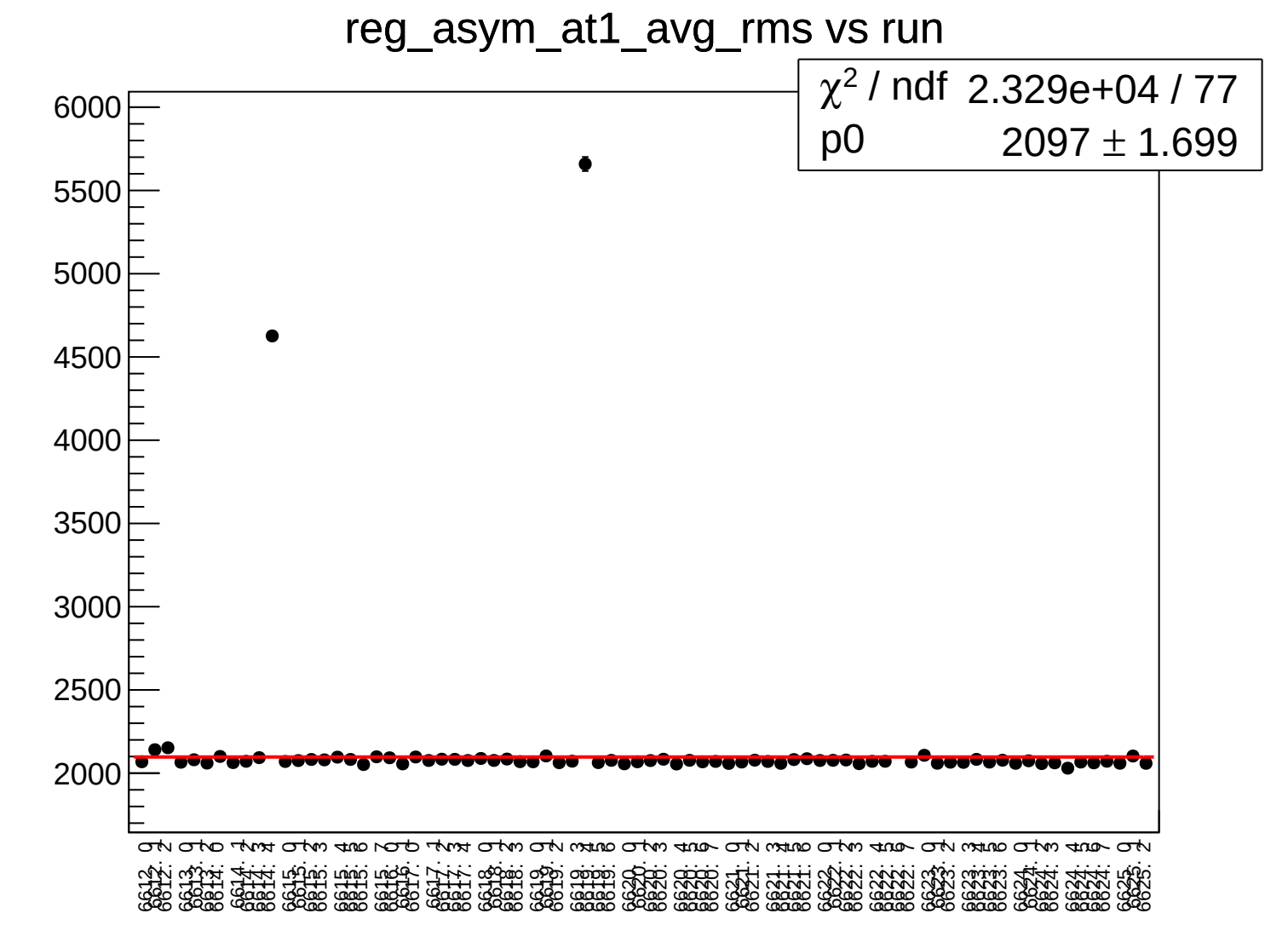

asym_atr_dd_mean vs run
×10^3
χ² / ndf 69.8 / 77
p0 −1729 ± 4456
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 84.84
Std Dev 73.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

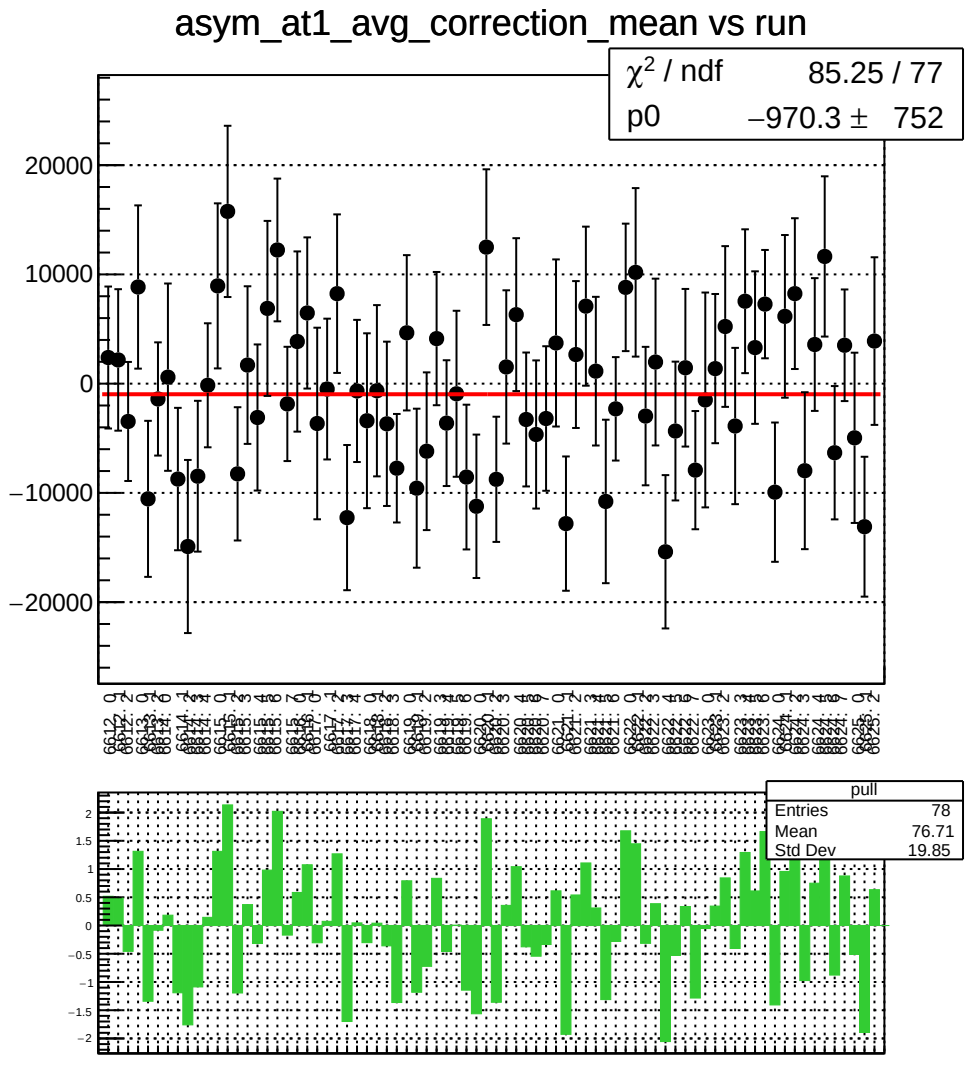

pull1D
Entries 78
Mean 0.01414
Std Dev 0.9459
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

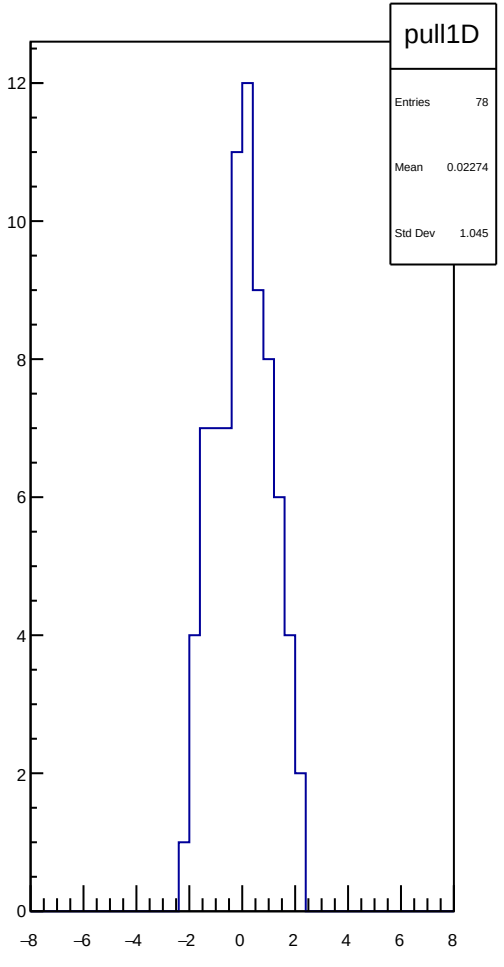

asym_atr_dd_rms vs run
χ^2 / ndf 6240 / 77
p0 3912 ± 3.151
5000
4800
4600
4400
4200
4000
3800
3600
3400

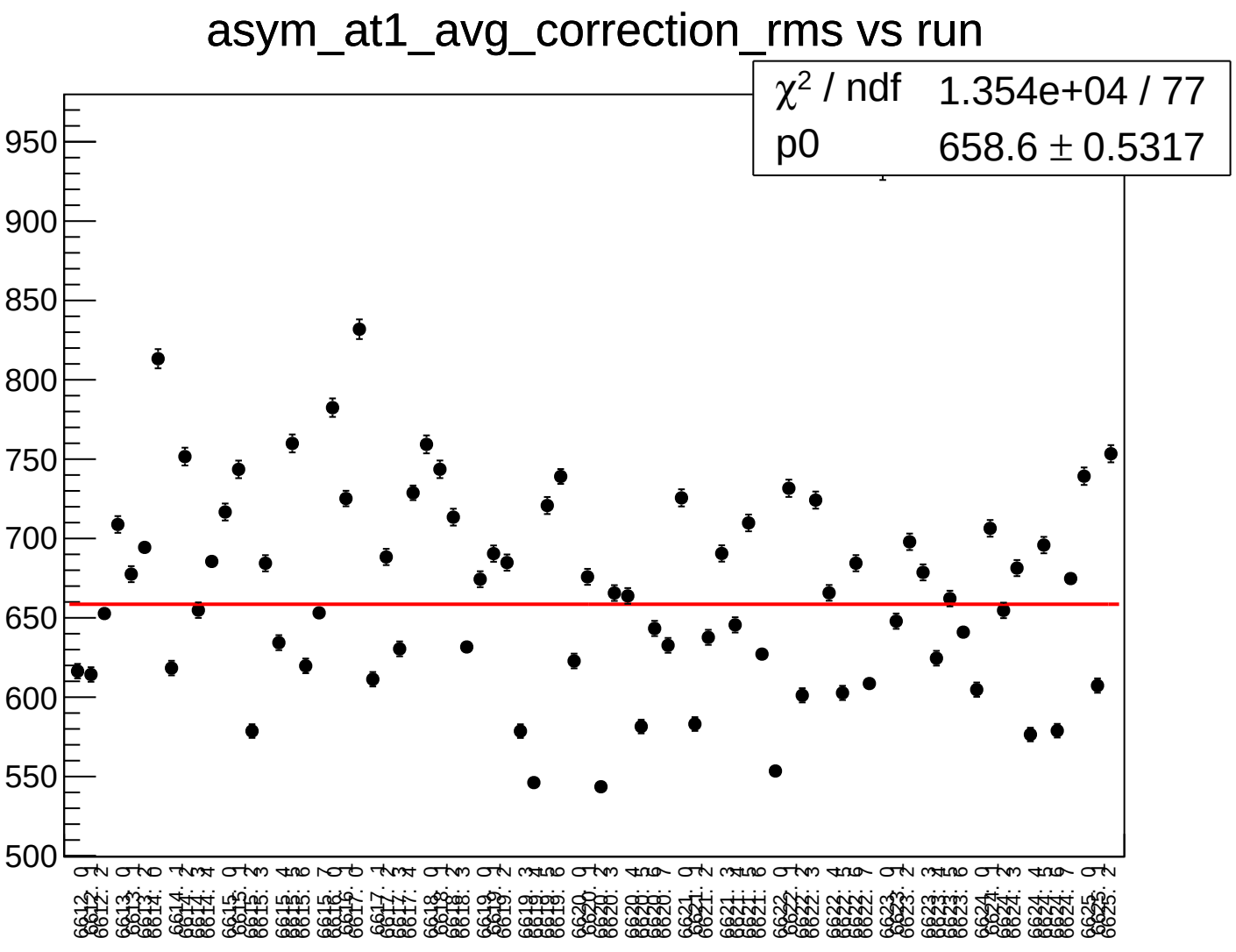

reg_asym_at1_avg_mean vs run
χ² / ndf 75.58 / 77
p0 3668 ± 2402
×10³
50
0
−50
−100
−150
pull
Entries 78
Mean 121
Std Dev 88.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

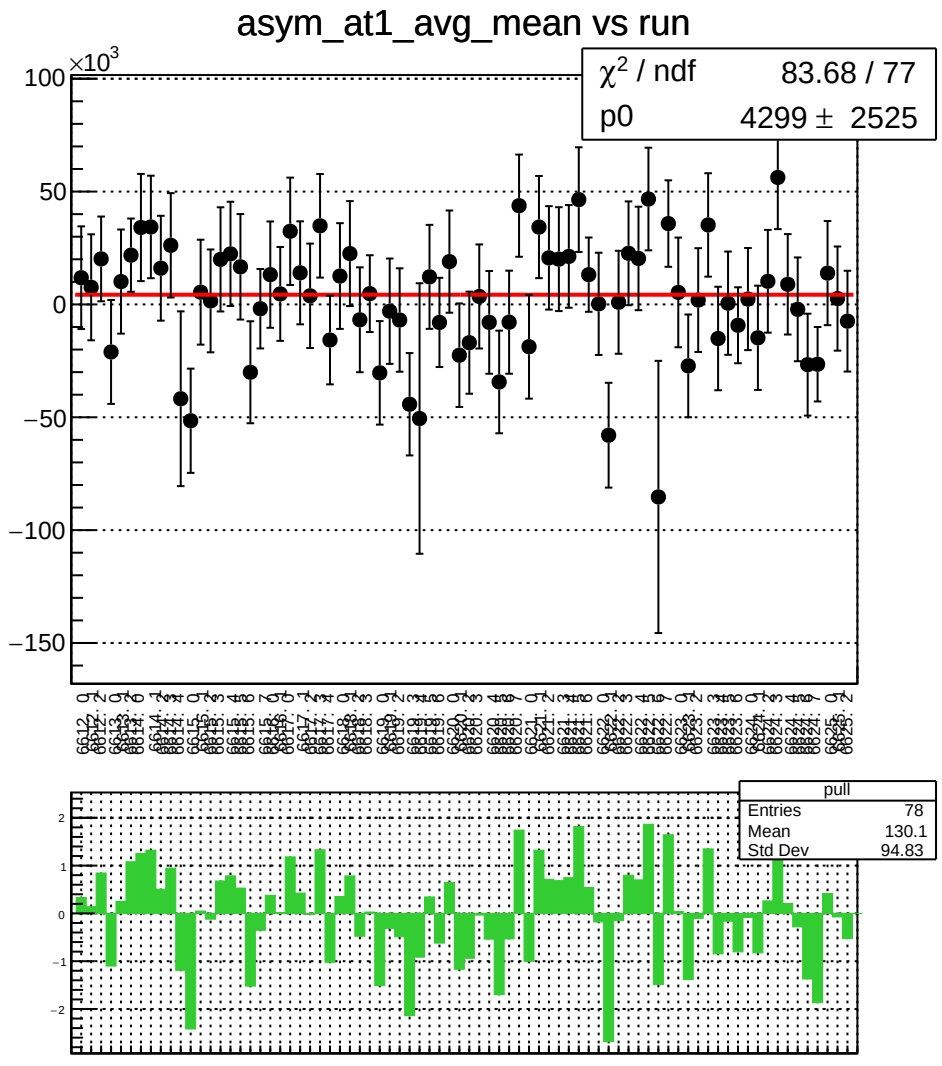

pull1D
Entries 78
Mean −0.02115
Std Dev 0.9842
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

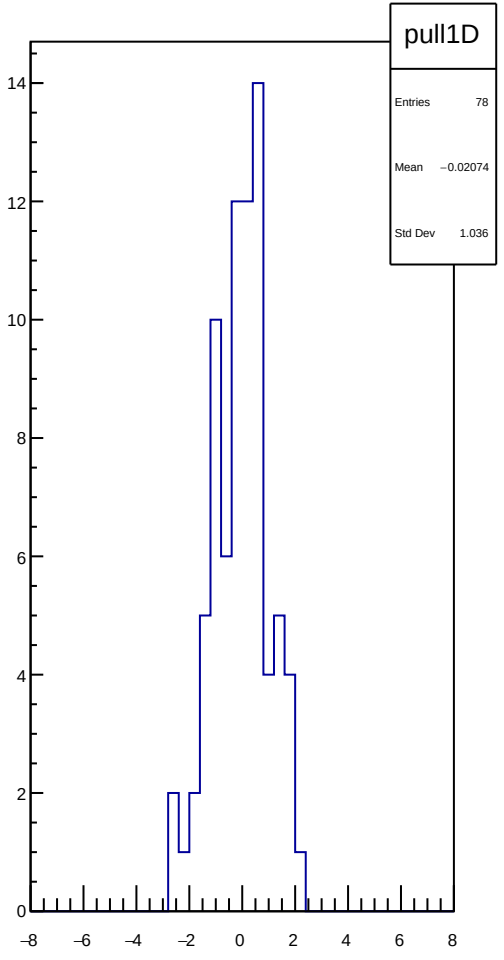

reg_asym_at1_avg_rms vs run
χ² / ndf 2.329e+04 / 77
p0 2097 ± 1.699
6000
5500
5000
4500
4000
3500
3000
2500
2000

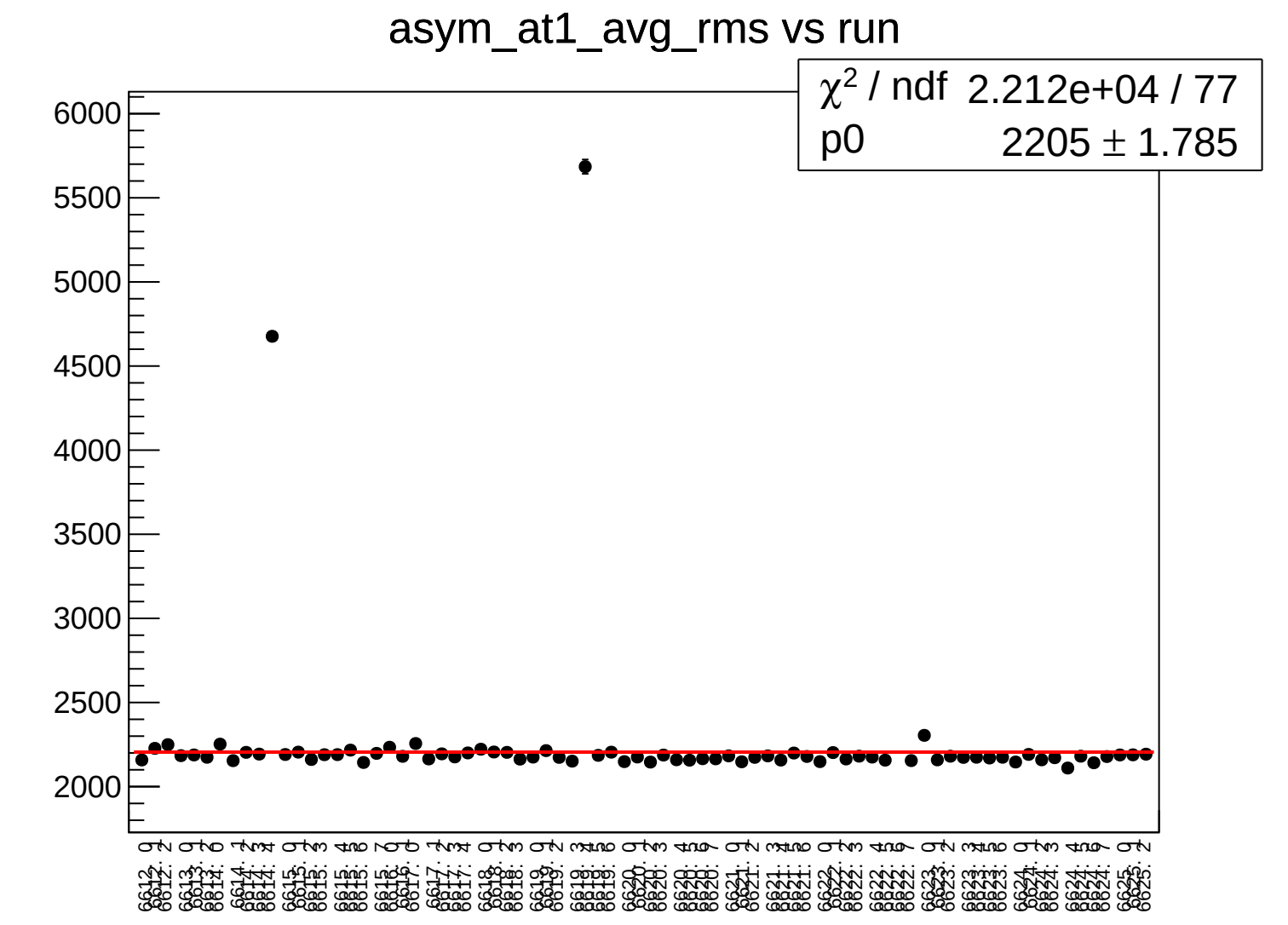

asym_at1_avg_correction_mean vs run
χ² / ndf 85.25 / 77
p0 −970.3 ± 752
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 76.71
Std Dev 19.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

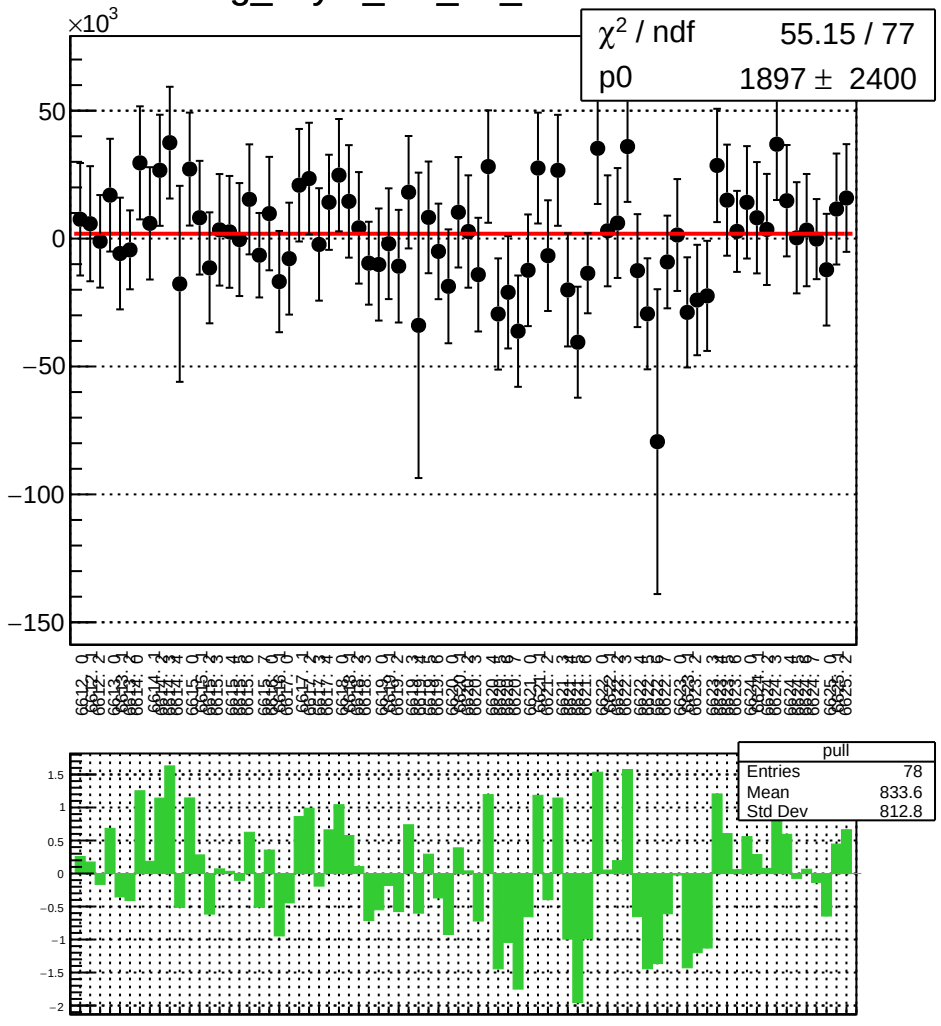

pull1D
Entries 78
Mean 0.02274
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

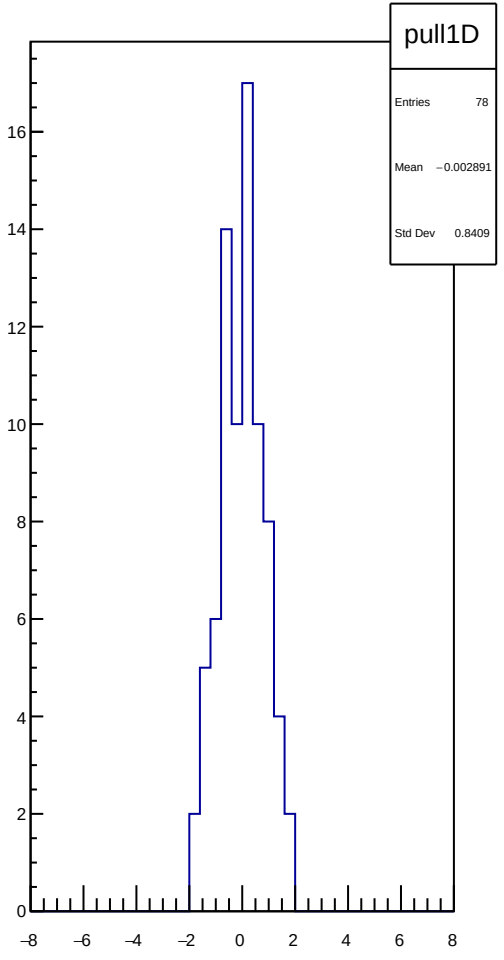

asym_at1_avg_correction_rms vs run
χ² / ndf 1.354e+04 / 77
p0 658.6 ± 0.5317
950
900
850
800
750
700
650
600
550
500

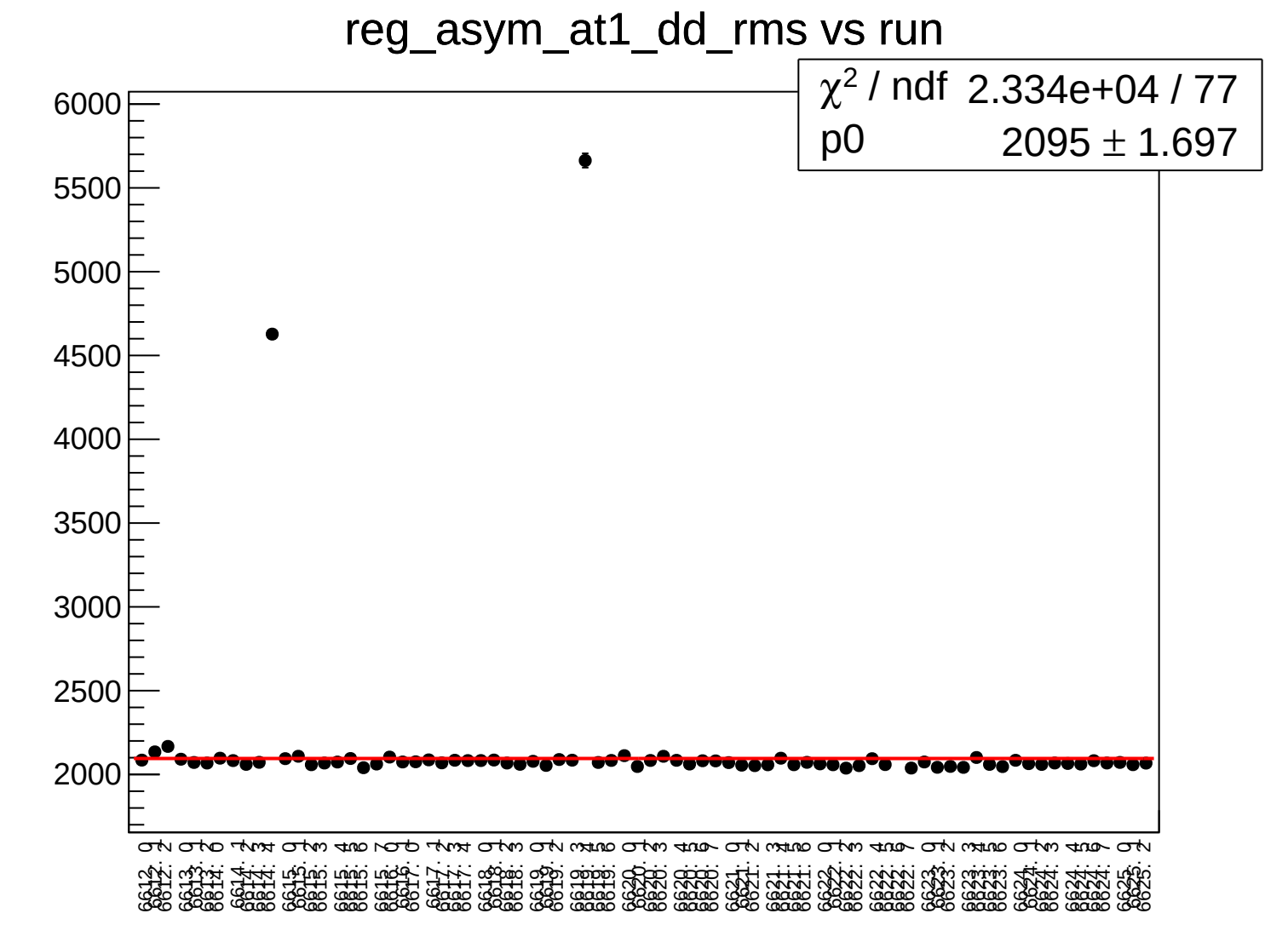

asym_at1_avg_mean vs run
χ^2 / ndf 83.68 / 77
p0 4299 ± 2525
pull
Entries 78
Mean 130.1
Std Dev 94.83

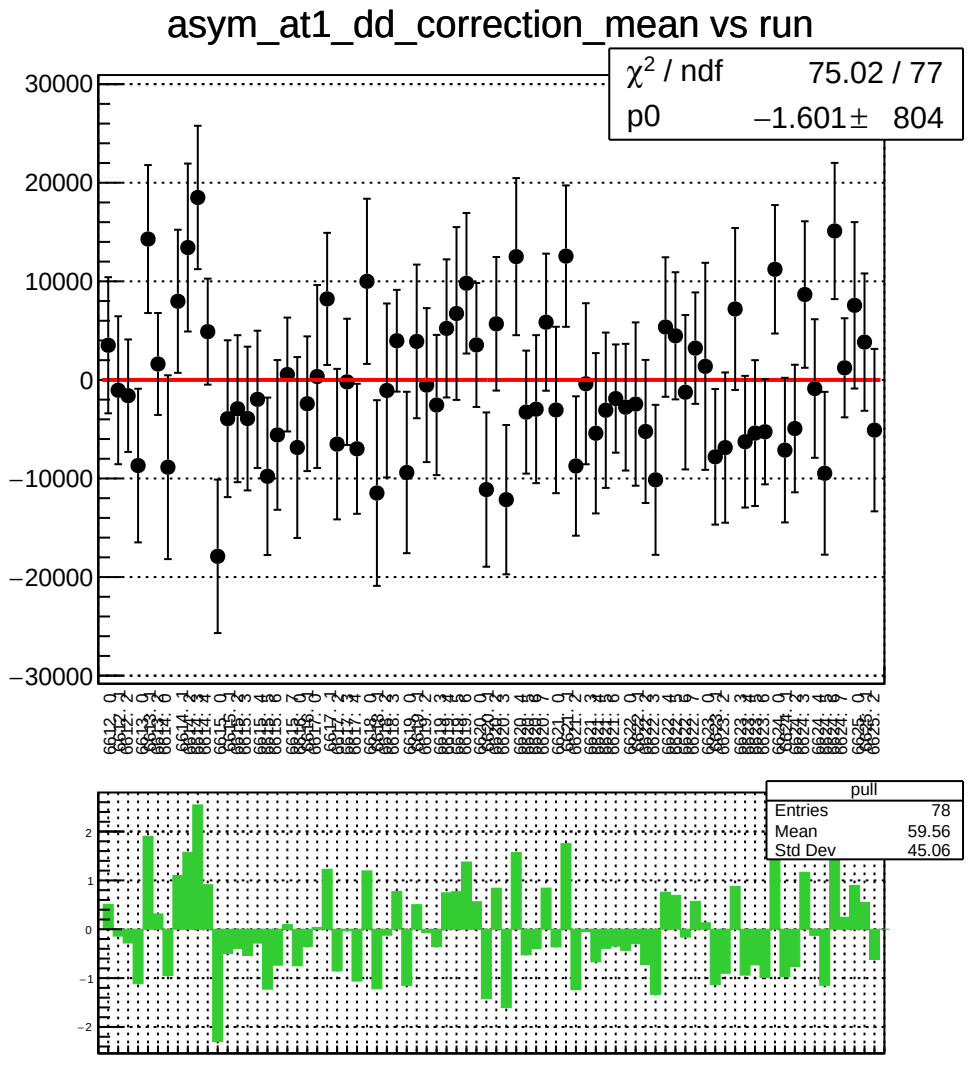

pull1D
Entries 78
Mean −0.02074
Std Dev 1.036

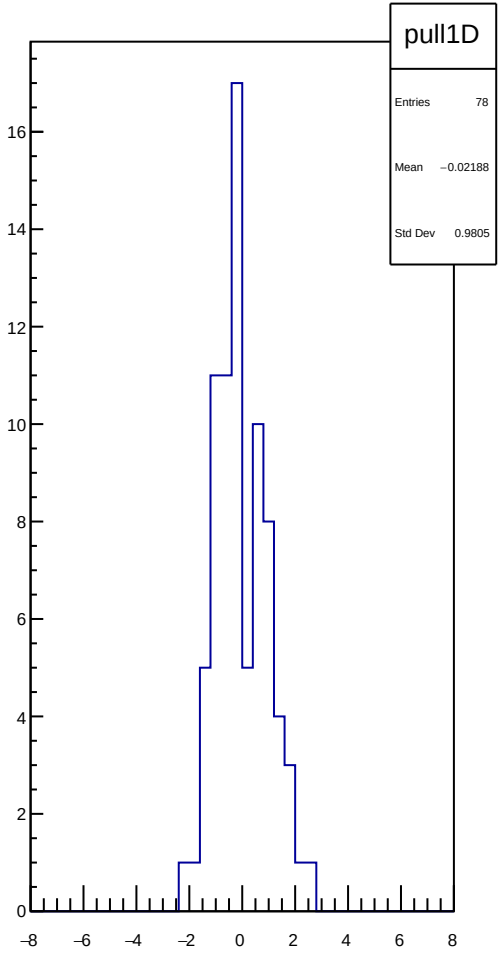

asym_at1_avg_rms vs run
χ^2 / ndf 2.212e+04 / 77
p0 2205 ± 1.785
6000
5500
5000
4500
4000
3500
3000
2500
2000

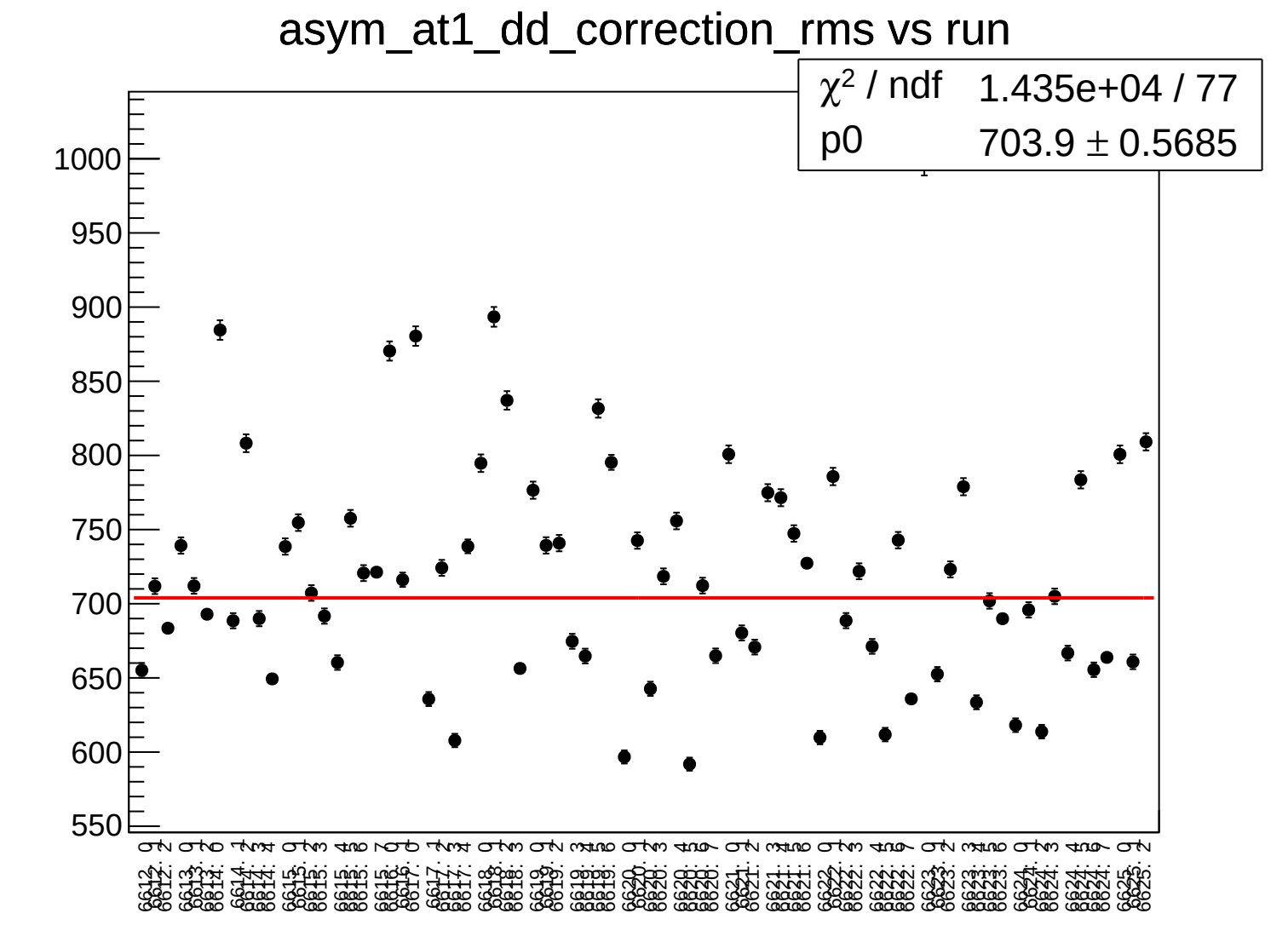

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 55.15 / 77
p0 1897 ± 2400
50
0
−50
−100
−150
pull
Entries 78
Mean 833.6
Std Dev 812.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

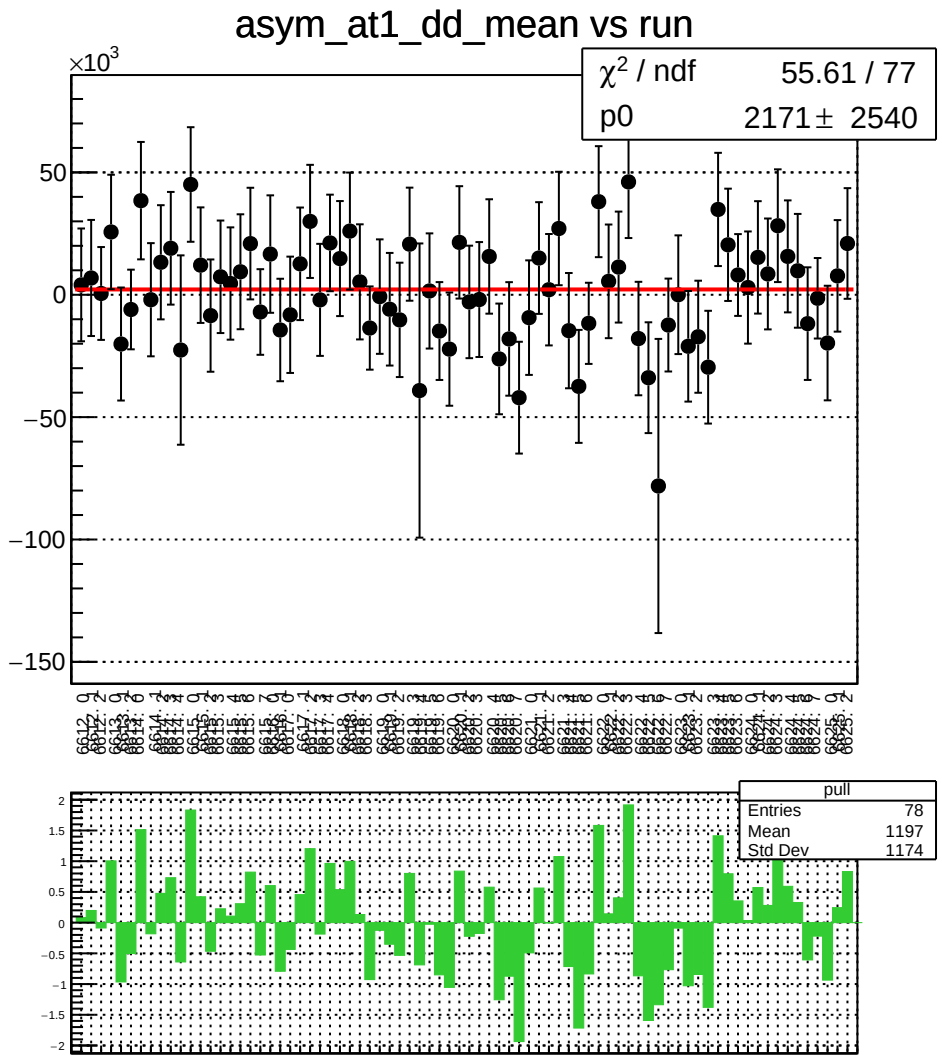

pull1D
Entries 78
Mean −0.002891
Std Dev 0.8409
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

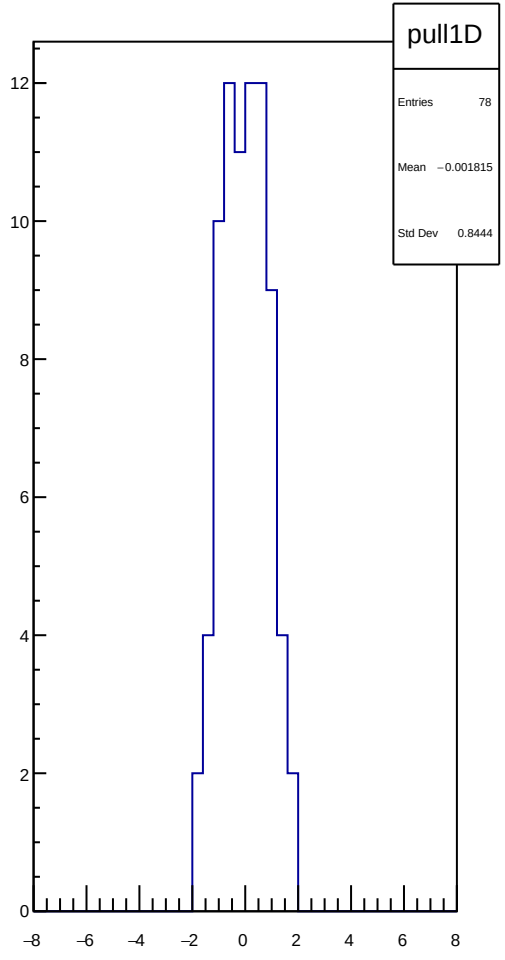

reg_asym_at1_dd_rms vs run
χ² / ndf 2.334e+04 / 77
p0 2095 ± 1.697
6000
5500
5000
4500
4000
3500
3000
2500
2000

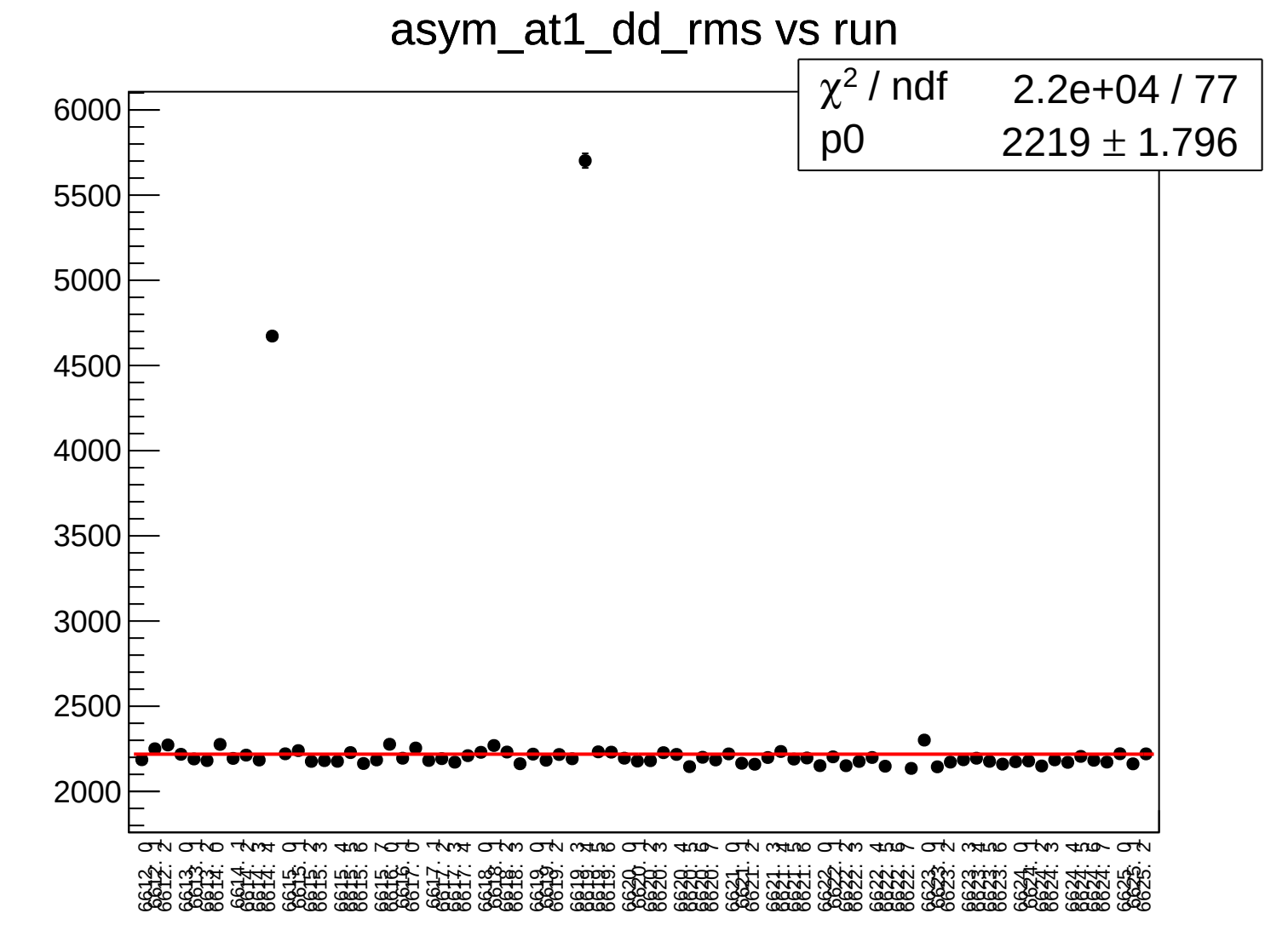

asym_at1_dd_correction_mean vs run
χ² / ndf 75.02 / 77
p0 −1.601 ± 804
pull
Entries 78
Mean 59.56
Std Dev 45.06

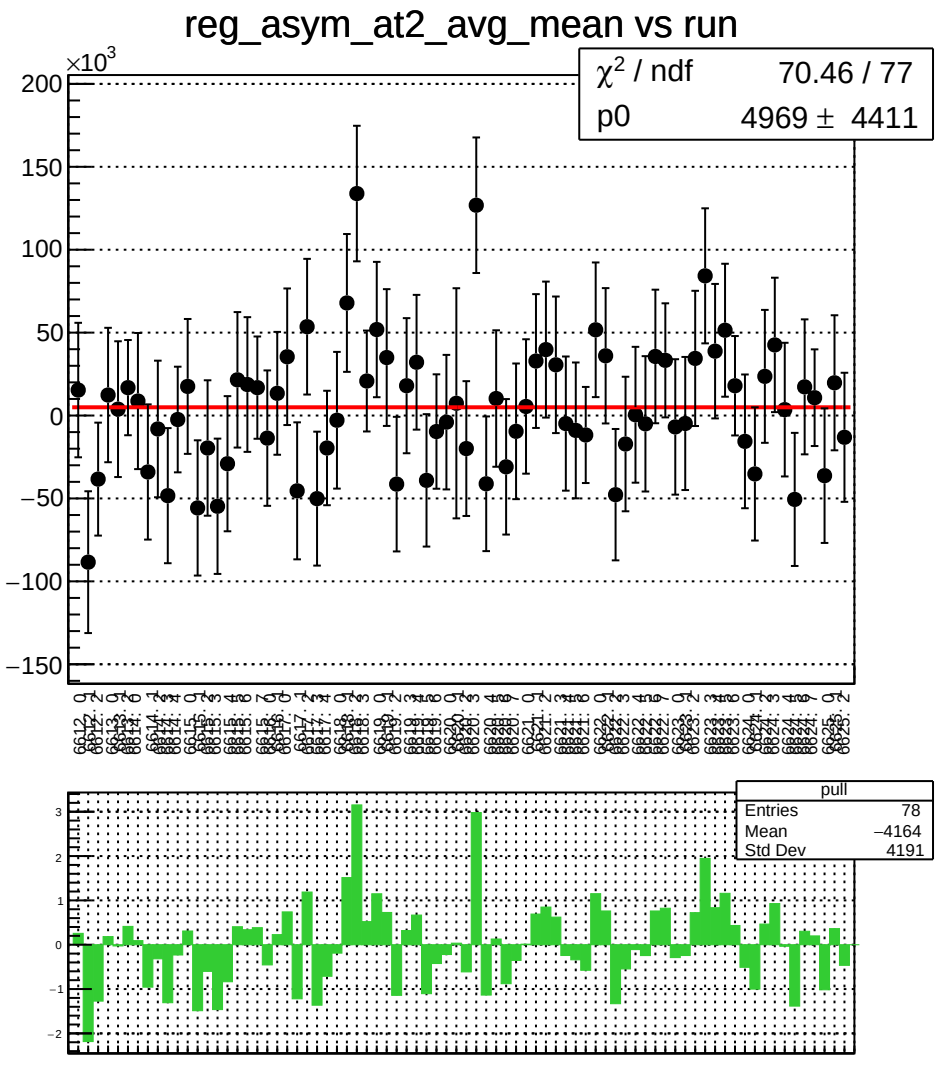

pull1D
Entries 78
Mean −0.02188
Std Dev 0.9805

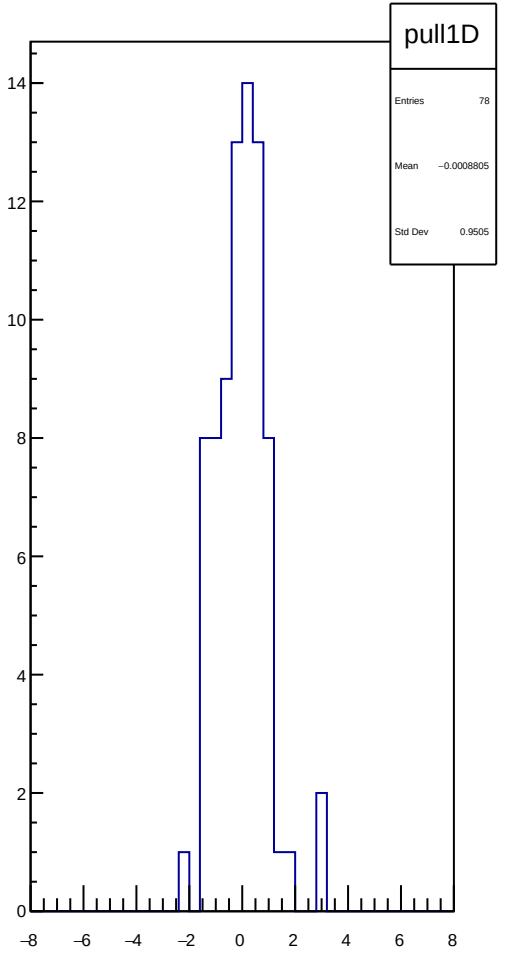

asym_at1_dd_correction_rms vs run
χ² / ndf 1.435e+04 / 77
p0 703.9 ± 0.5685
1000
950
900
850
800
750
700
650
600
550

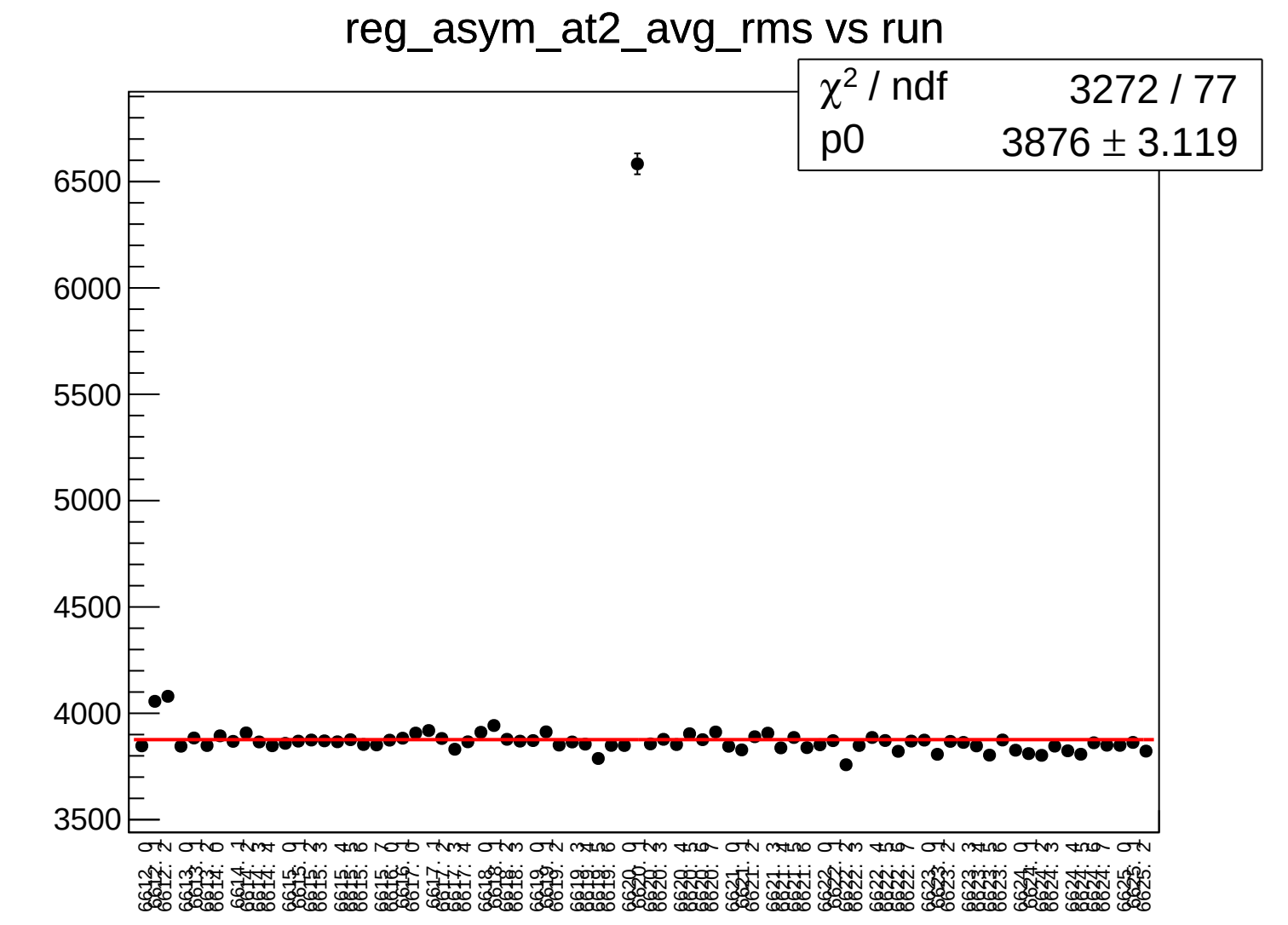

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 55.61 / 77
p0 2171 ± 2540
50
0
−50
−100
−150
pull
Entries 78
Mean 1197
Std Dev 1174
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

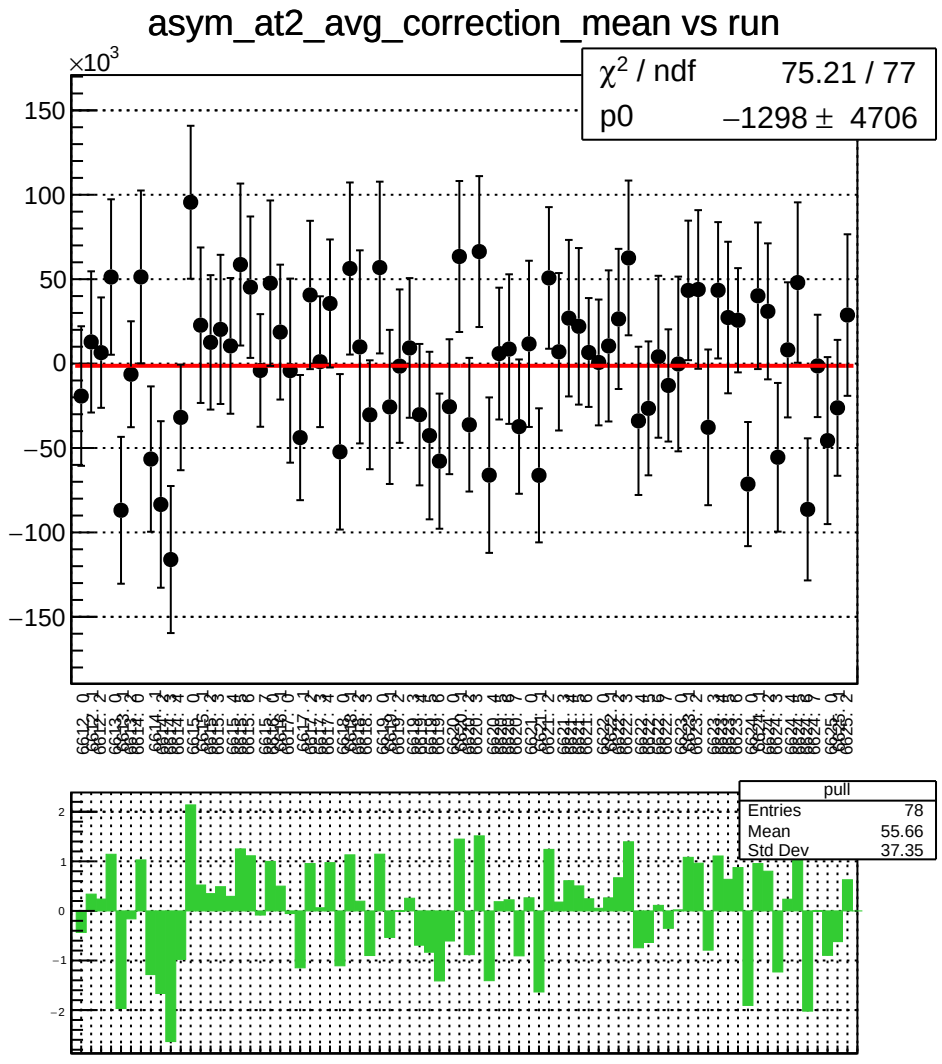

pull1D
Entries 78
Mean −0.001815
Std Dev 0.8444
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

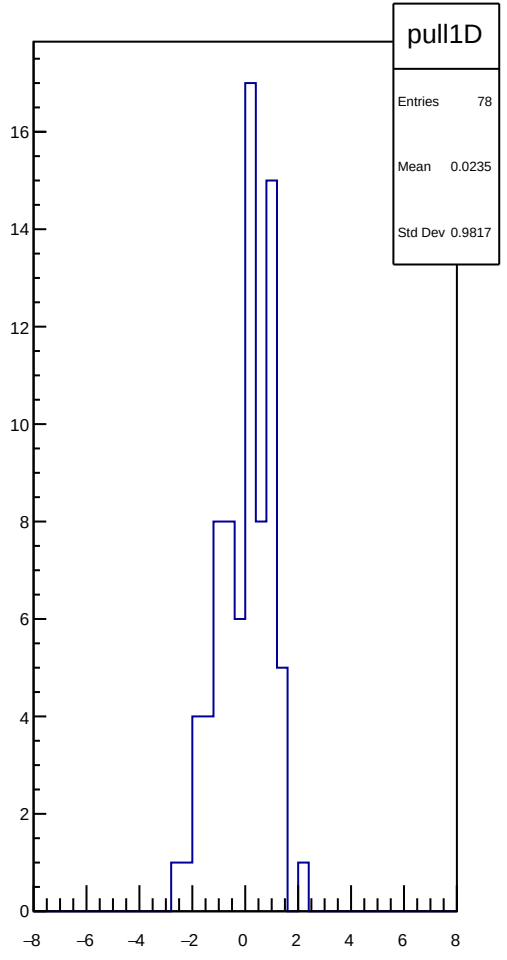

asym_at1_dd_rms vs run
χ^2 / ndf 2.2e+04 / 77
p0 2219 ± 1.796
6000
5500
5000
4500
4000
3500
3000
2500
2000

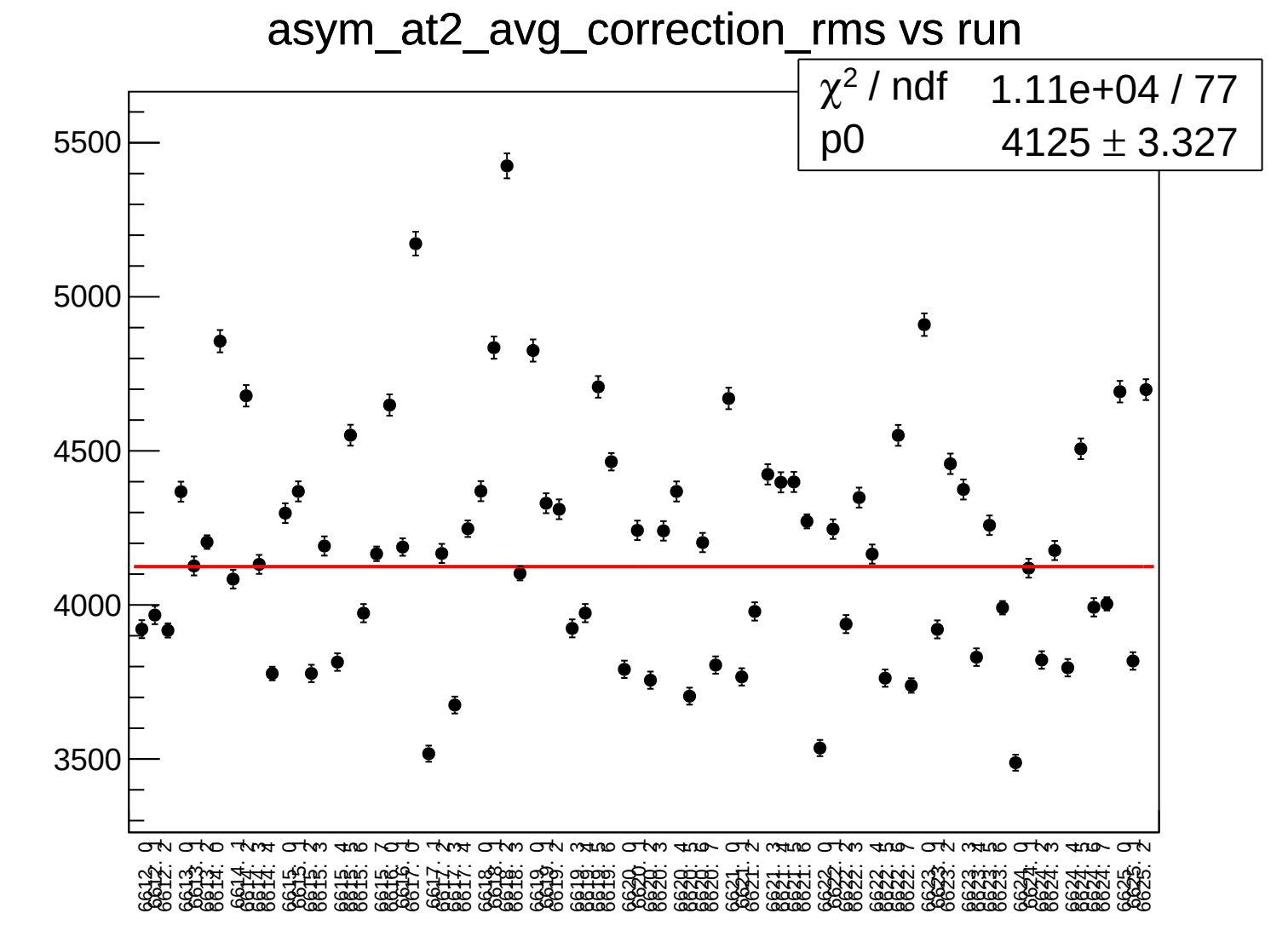

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 70.46 / 77
p0 4969 ± 4411
pull
Entries 78
Mean −4164
Std Dev 4191

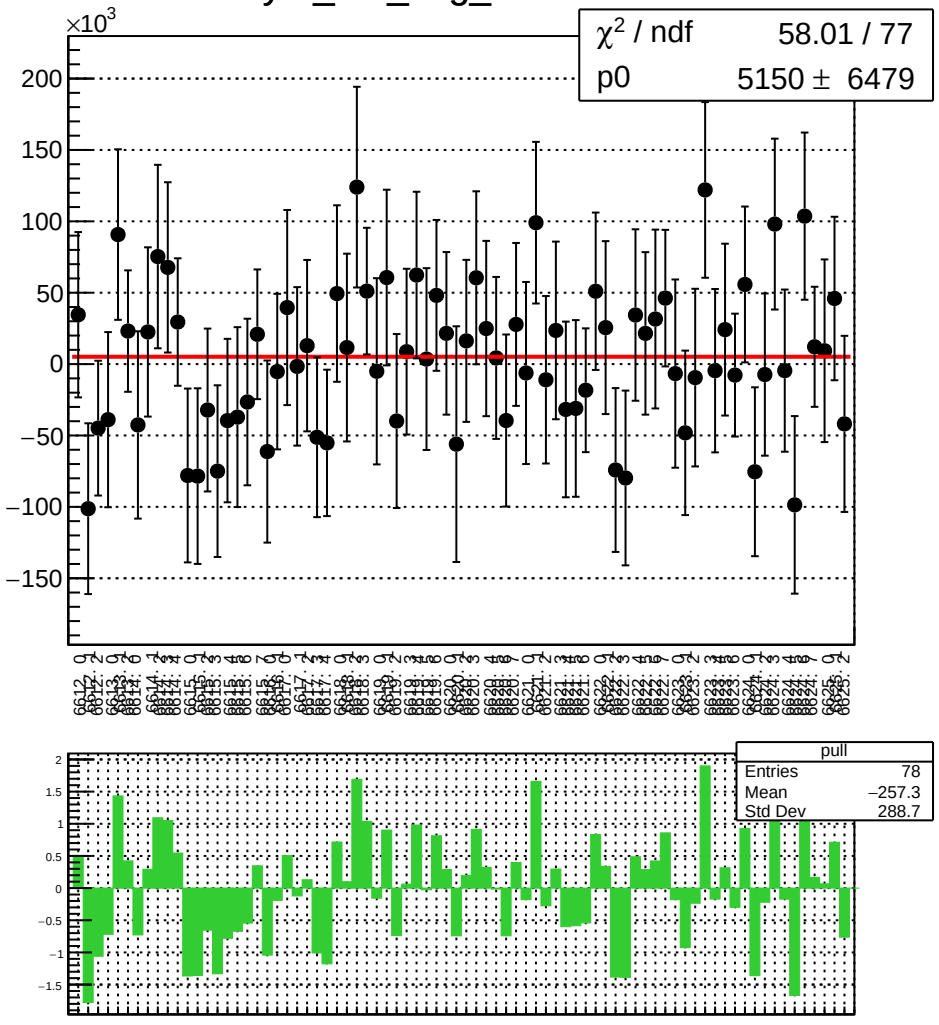

pull1D
Entries 78
Mean −0.0008805
Std Dev 0.9505

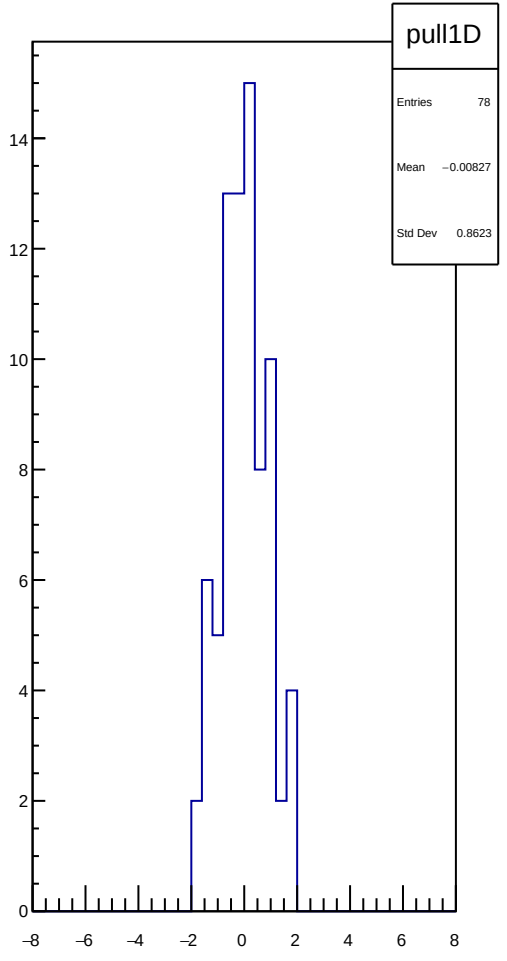

reg_asym_at2_avg_rms vs run
χ² / ndf 3272 / 77
p0 3876 ± 3.119
6500
6000
5500
5000
4500
4000
3500

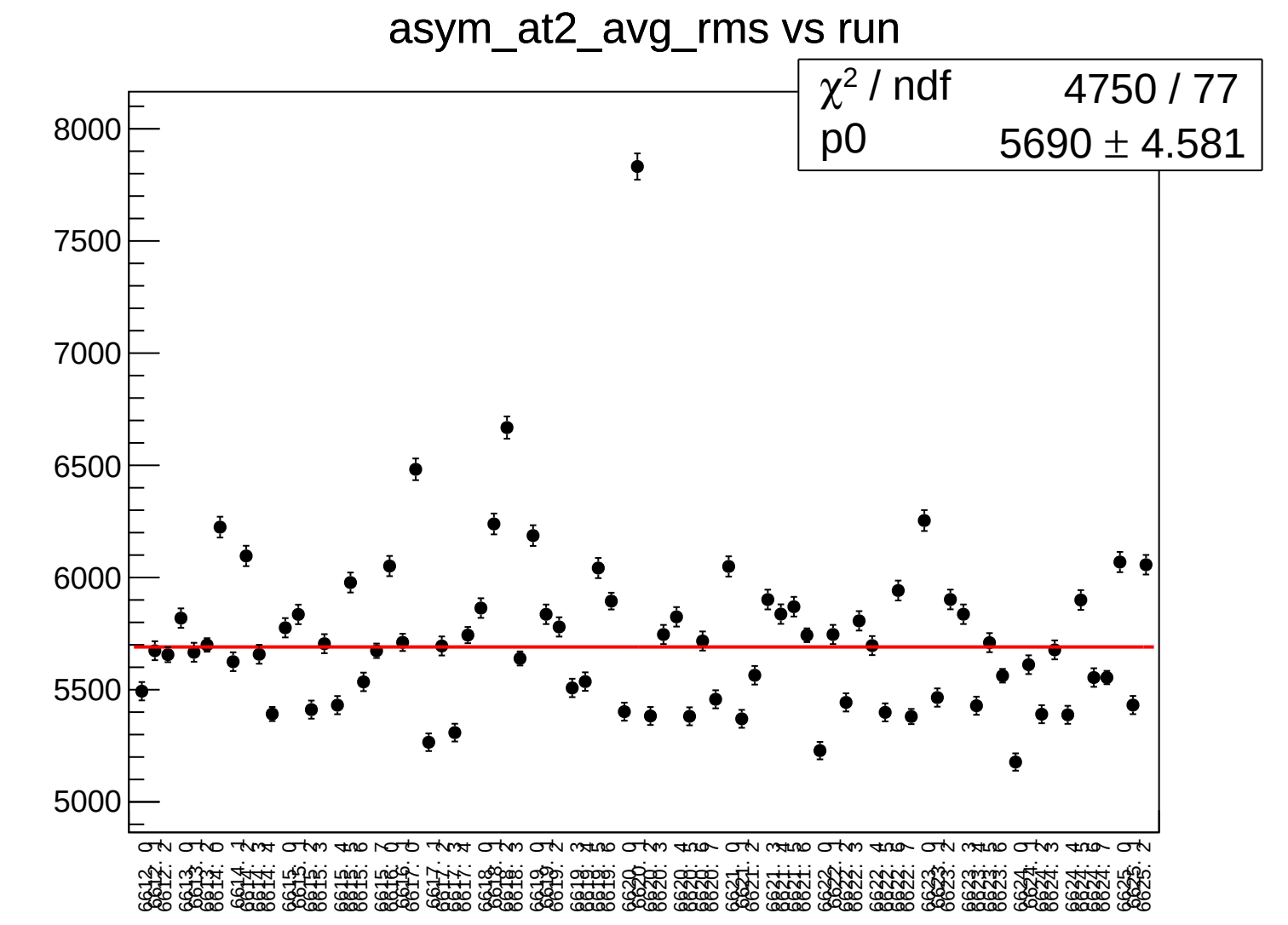

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 75.21 / 77
p0 −1298 ± 4706
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 55.66
Std Dev 37.35
2
1
0
−1
−2

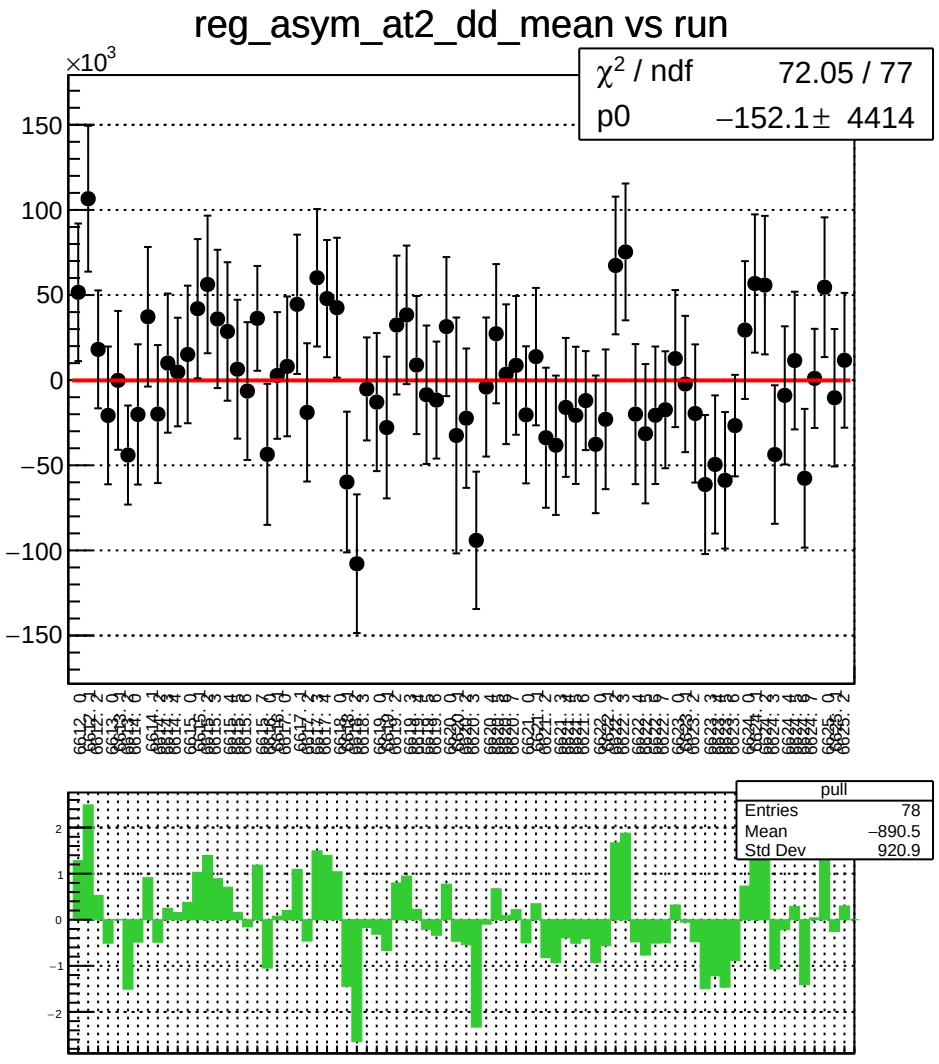

pull1D
Entries 78
Mean 0.0235
Std Dev 0.9817
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

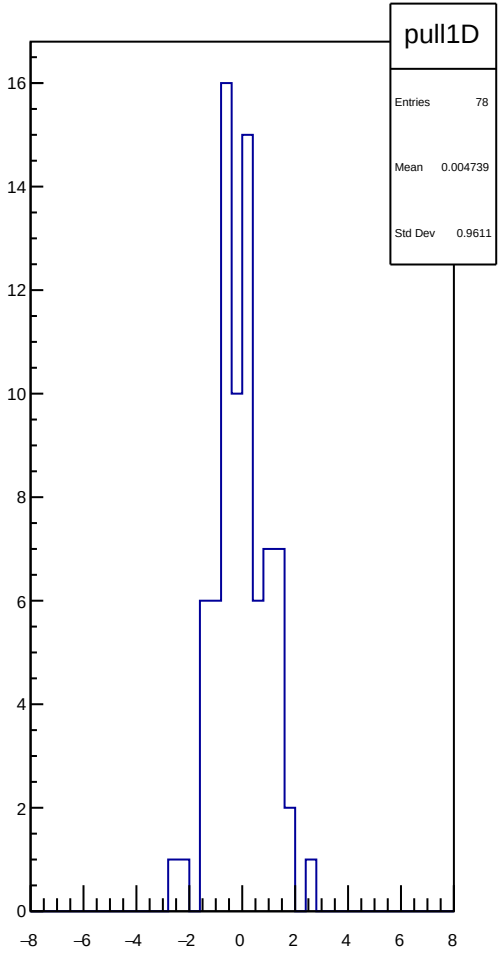

asym_at2_avg_correction_rms vs run
χ² / ndf 1.11e+04 / 77
p0 4125 ± 3.327
5500
5000
4500
4000
3500

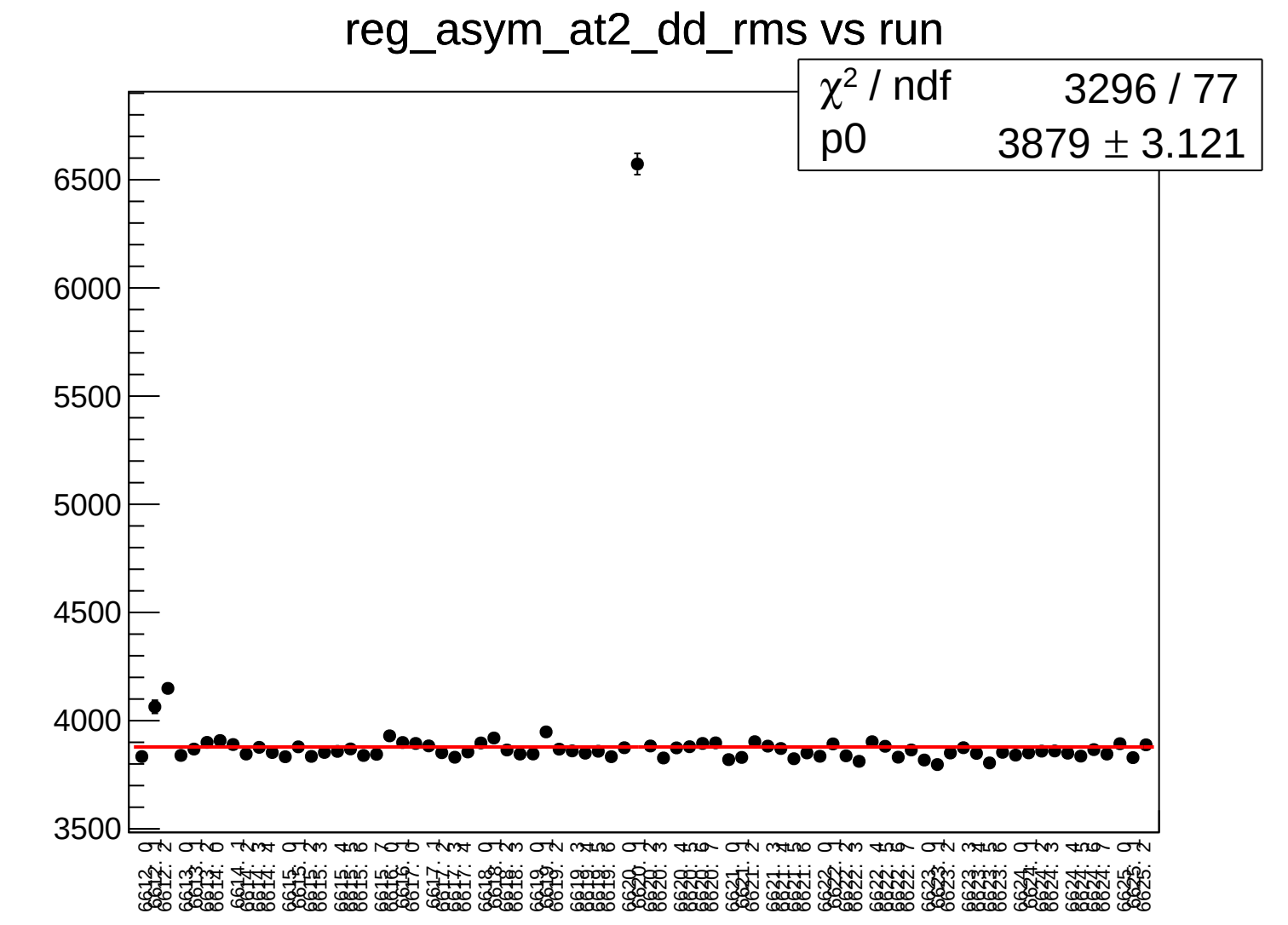

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 58.01 / 77
p0 5150 ± 6479
pull
Entries 78
Mean −257.3
Std Dev 288.7

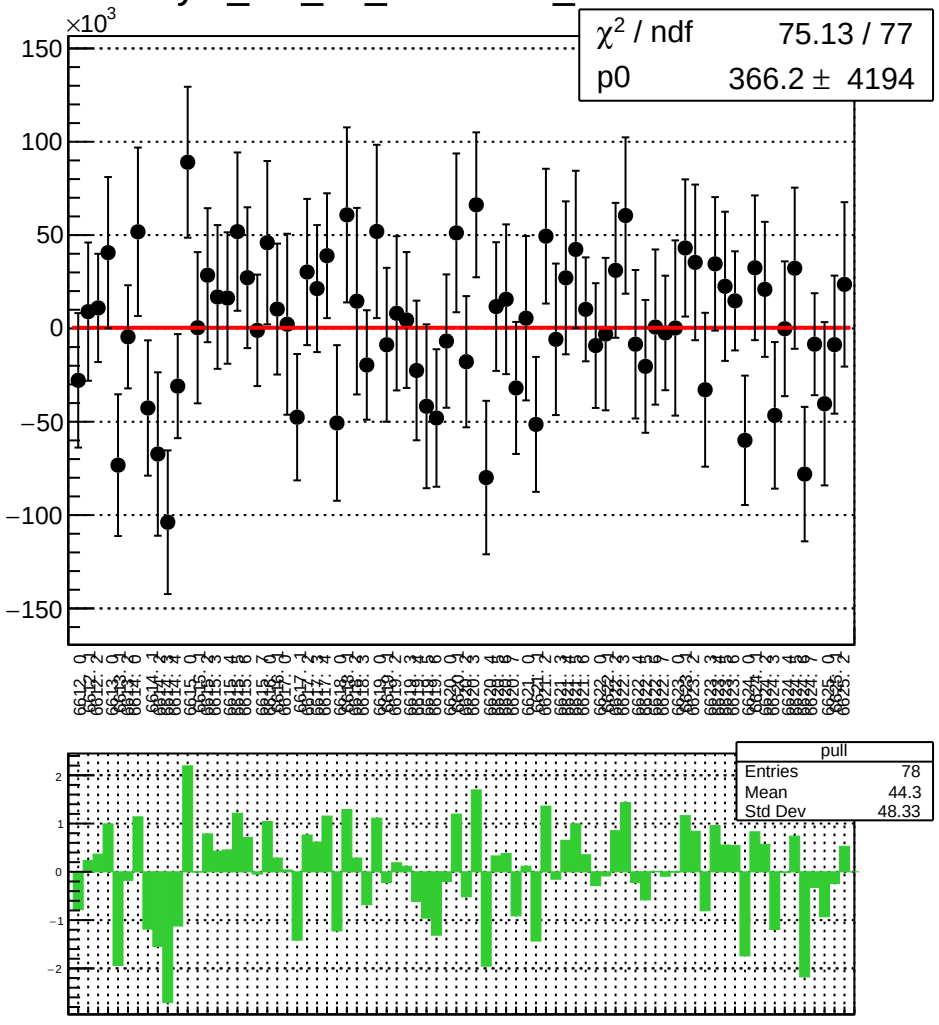

pull1D
Entries 78
Mean −0.00827
Std Dev 0.8623

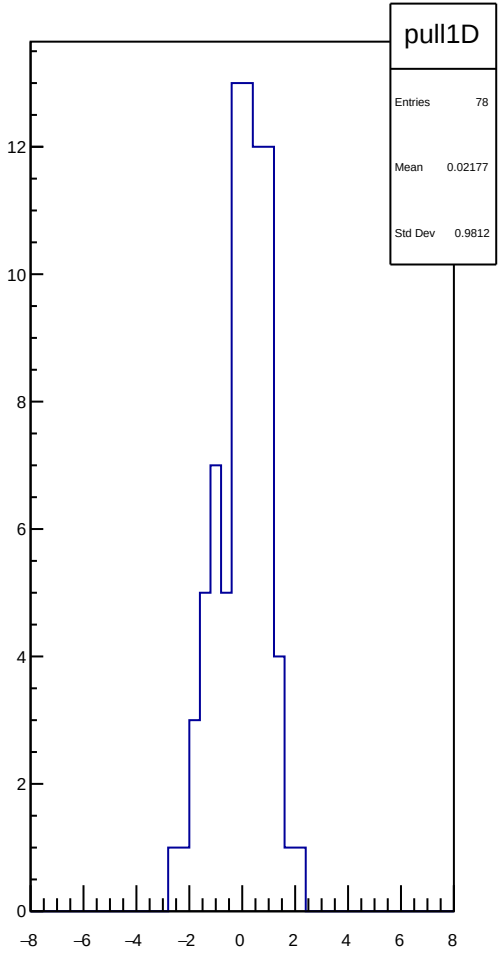

asym_at2_avg_rms vs run
χ² / ndf 4750 / 77
p0 5690 ± 4.581
8000
7500
7000
6500
6000
5500
5000

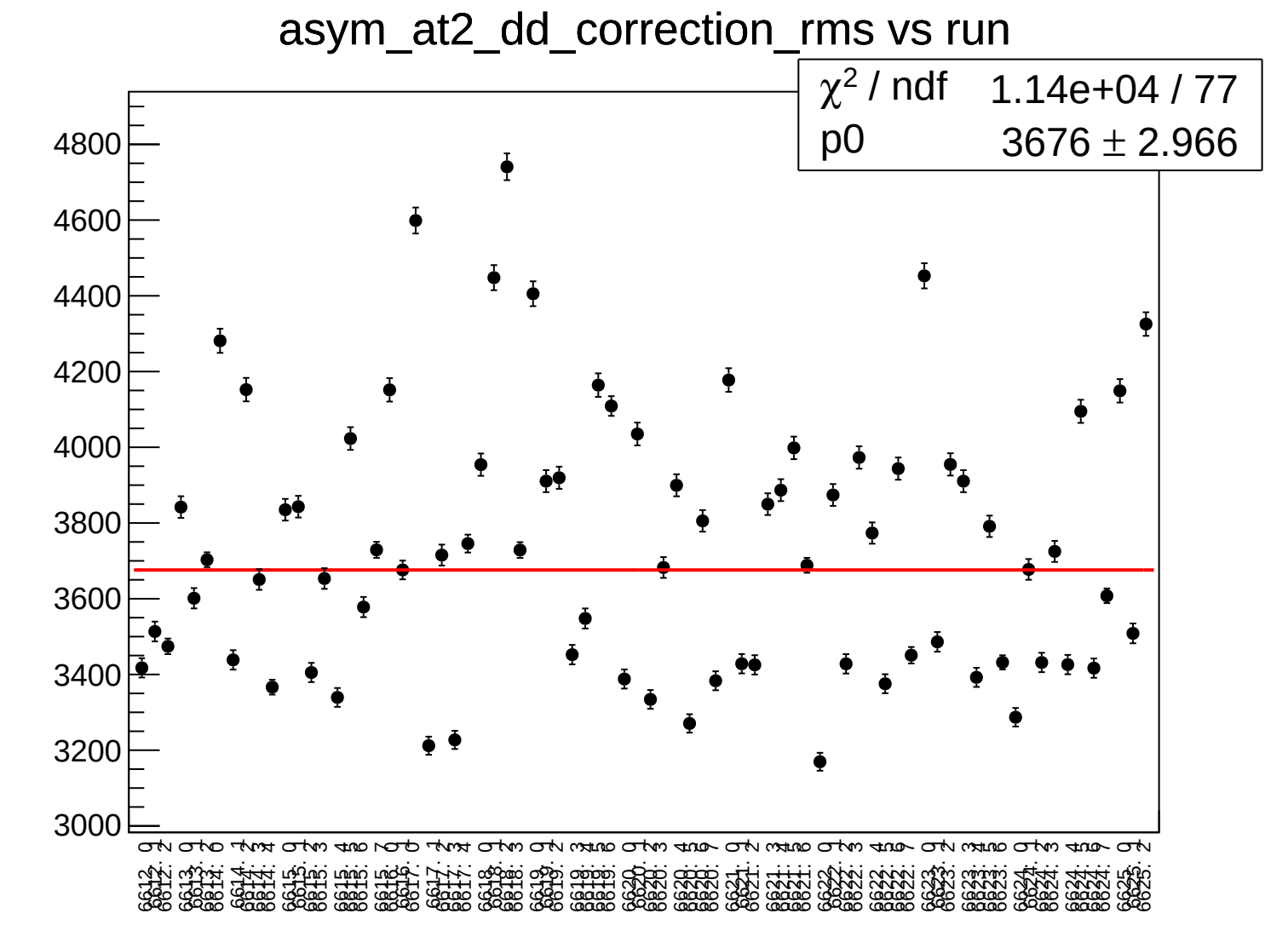

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 72.05 / 77
p0 −152.1± 4414
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −890.5
Std Dev 920.9
2
1
0
−1
−2

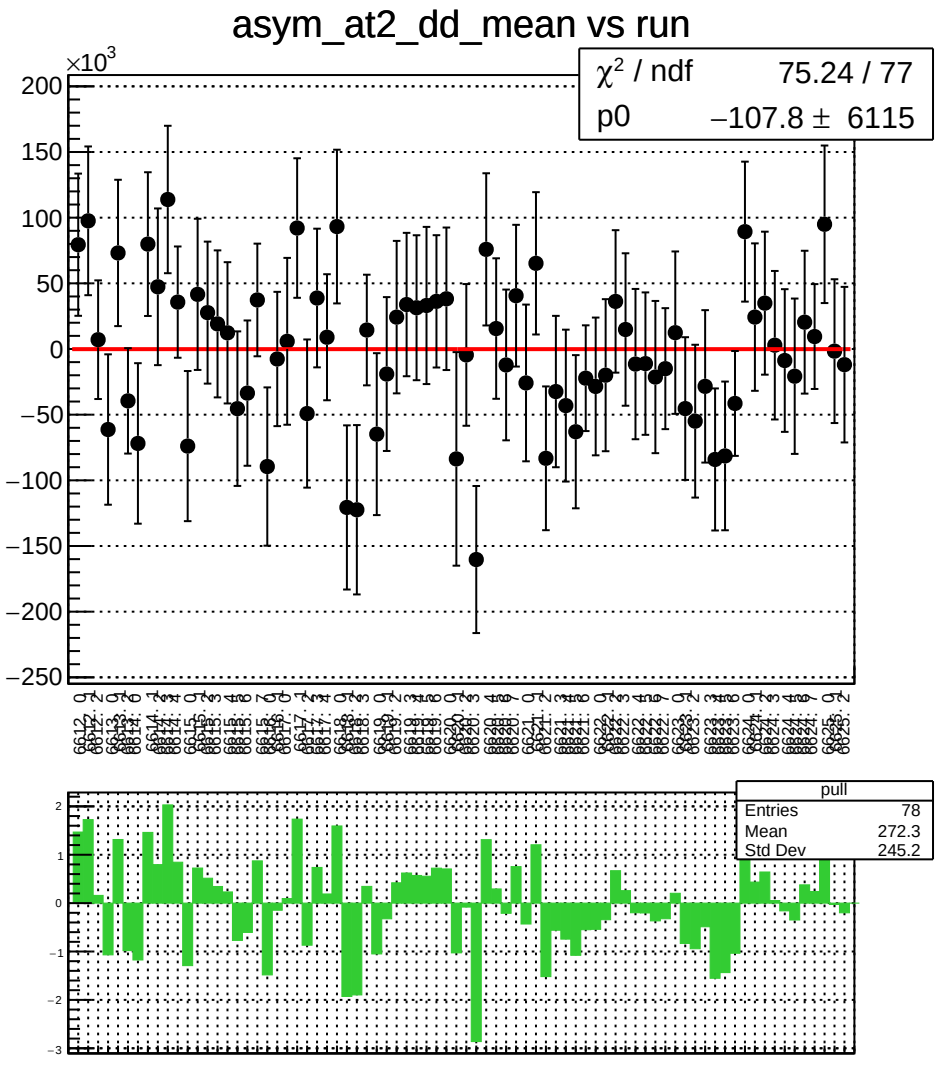

pull1D
Entries 78
Mean 0.004739
Std Dev 0.9611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

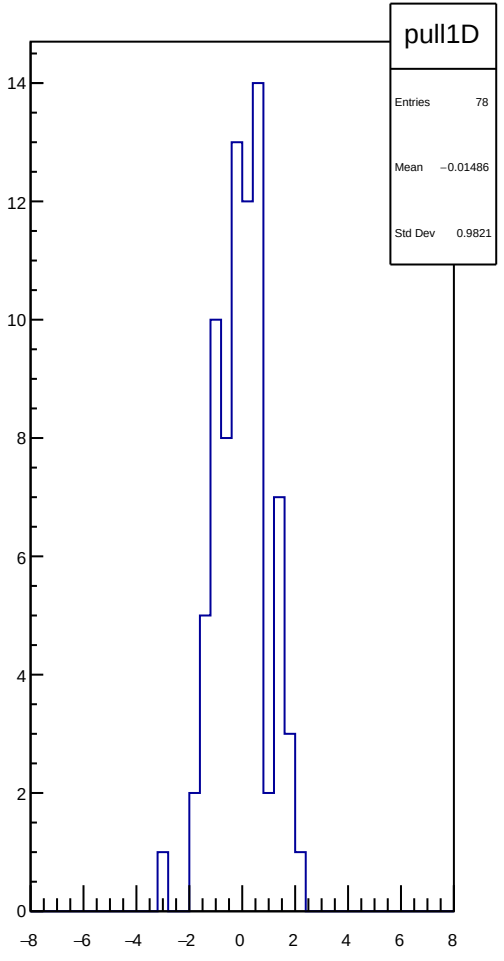

reg_asym_at2_dd_rms vs run
χ² / ndf 3296 / 77
p0 3879 ± 3.121
6500
6000
5500
5000
4500
4000
3500

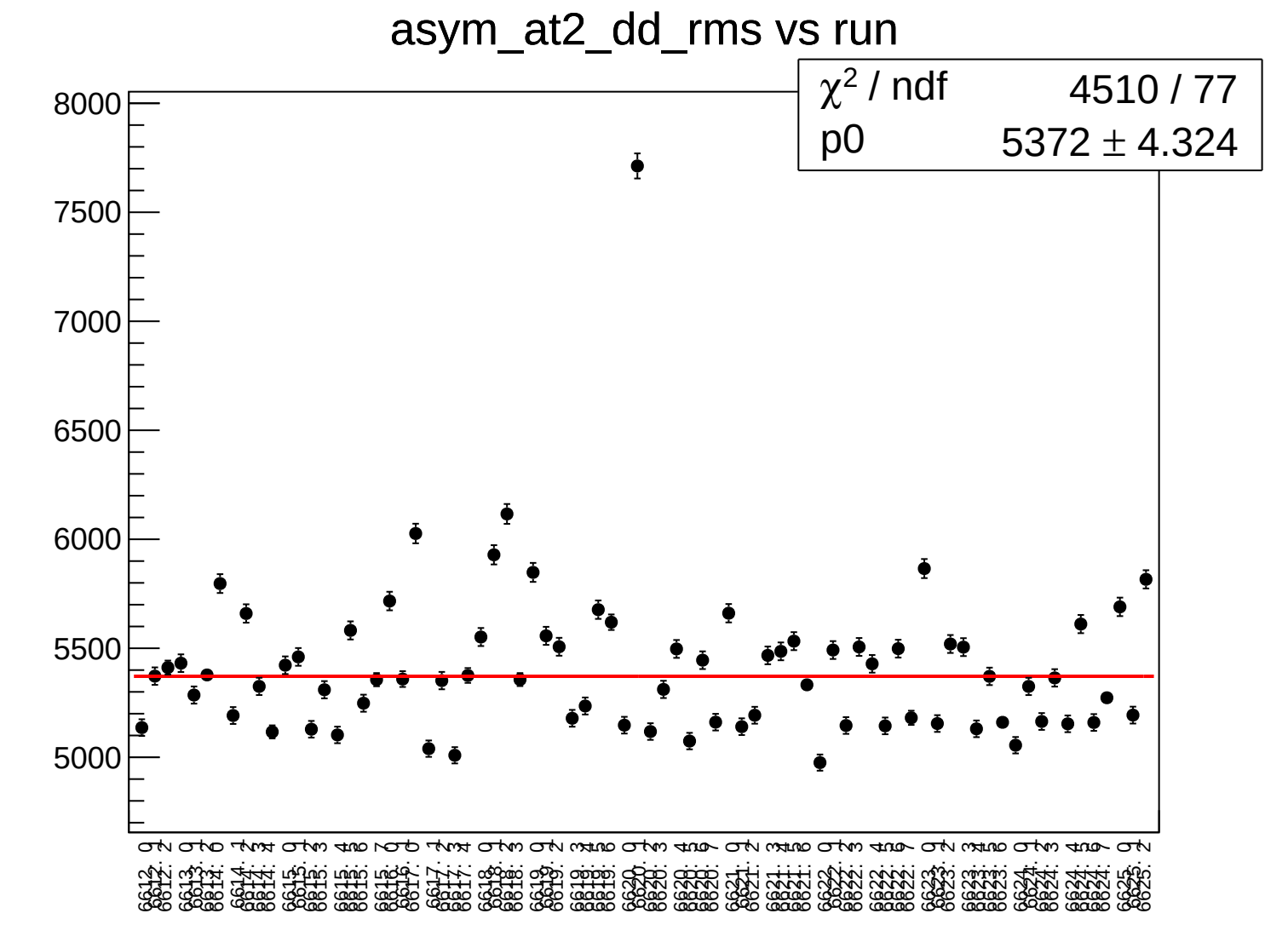

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 75.13 / 77
p0 366.2 ± 4194
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 44.3
Std Dev 48.33
2
1
0
−1
−2

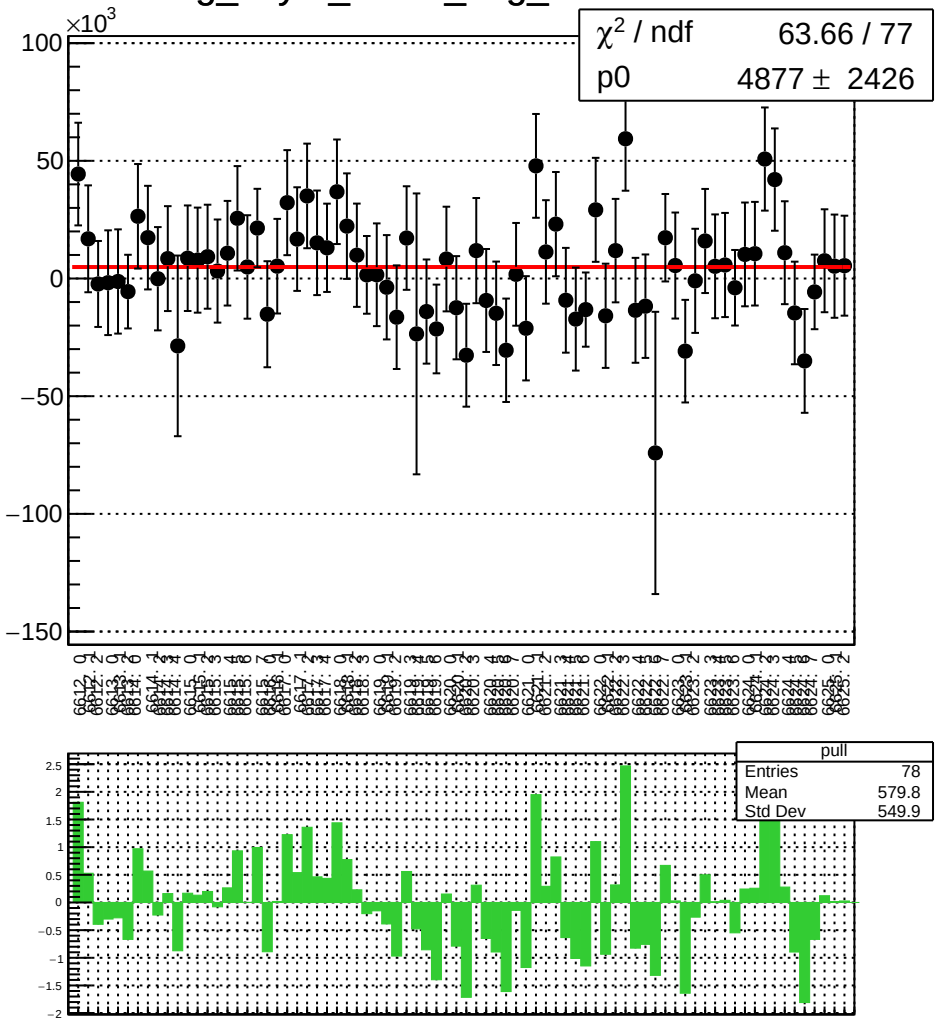

pull1D
Entries 78
Mean 0.02177
Std Dev 0.9812
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

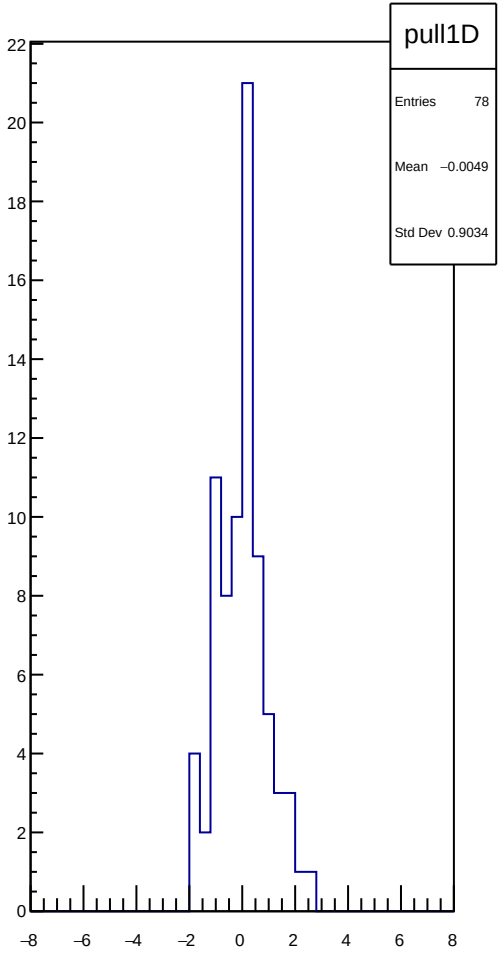

asym_at2_dd_correction_rms vs run
χ² / ndf 1.14e+04 / 77
p0 3676 ± 2.966
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

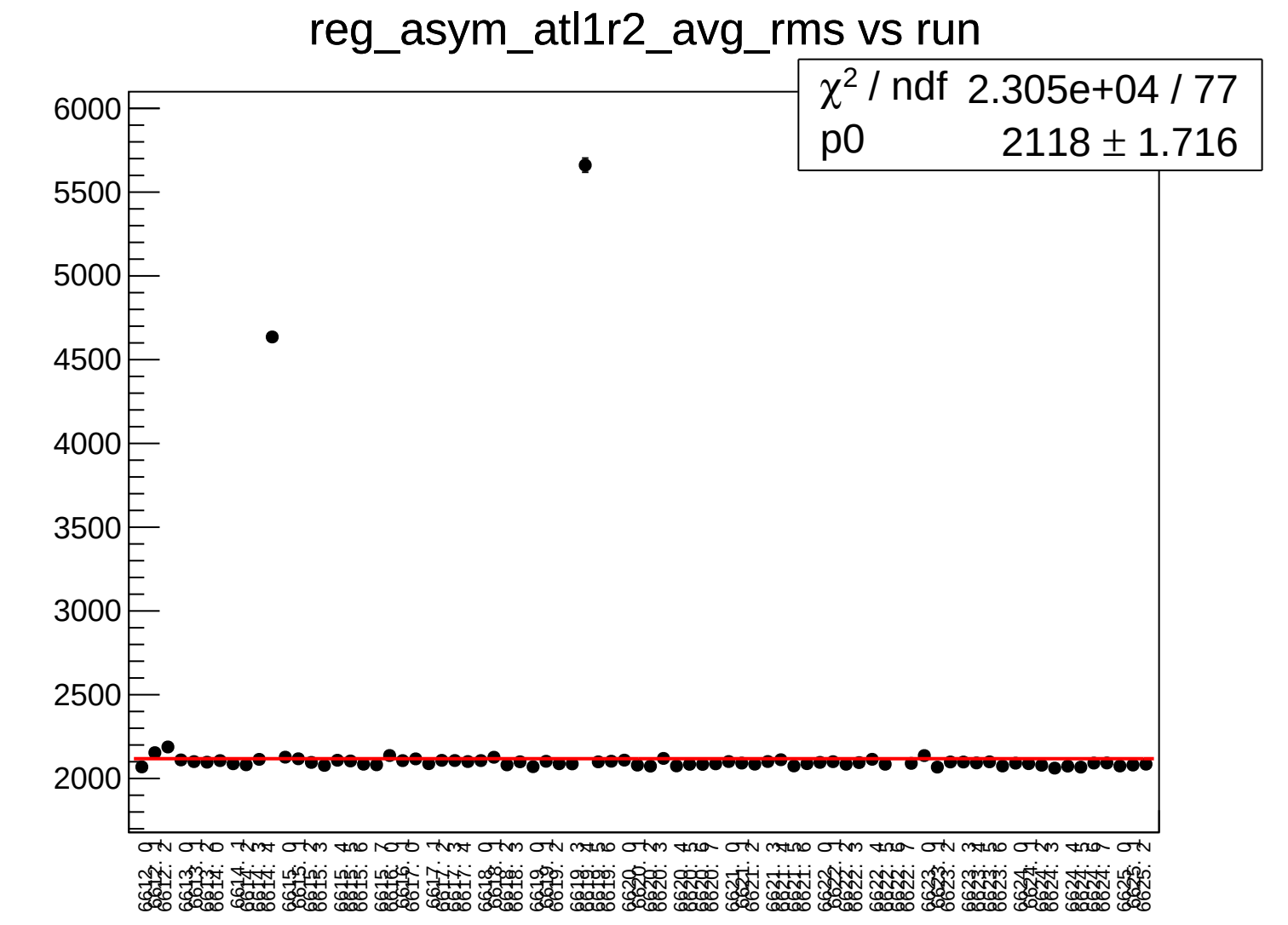

asym_at2_dd_mean vs run
×10^3
χ² / ndf 75.24 / 77
p0 −107.8 ± 6115
pull
Entries 78
Mean 272.3
Std Dev 245.2

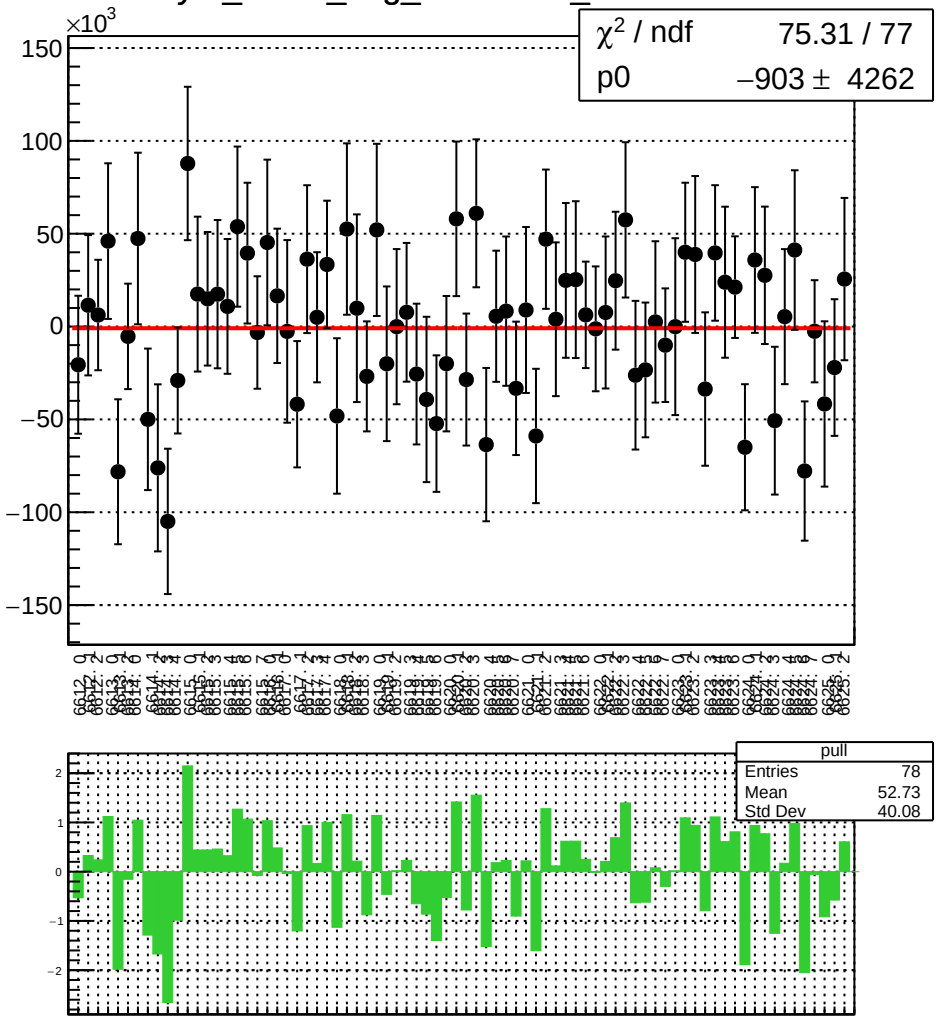

pull1D
Entries 78
Mean −0.01486
Std Dev 0.9821

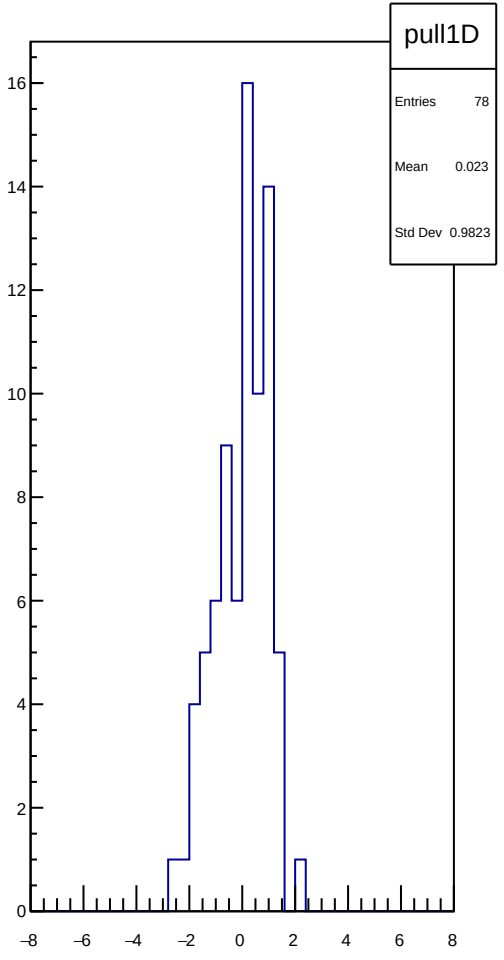

asym_at2_dd_rms vs run
χ² / ndf 4510 / 77
p0 5372 ± 4.324
8000
7500
7000
6500
6000
5500
5000

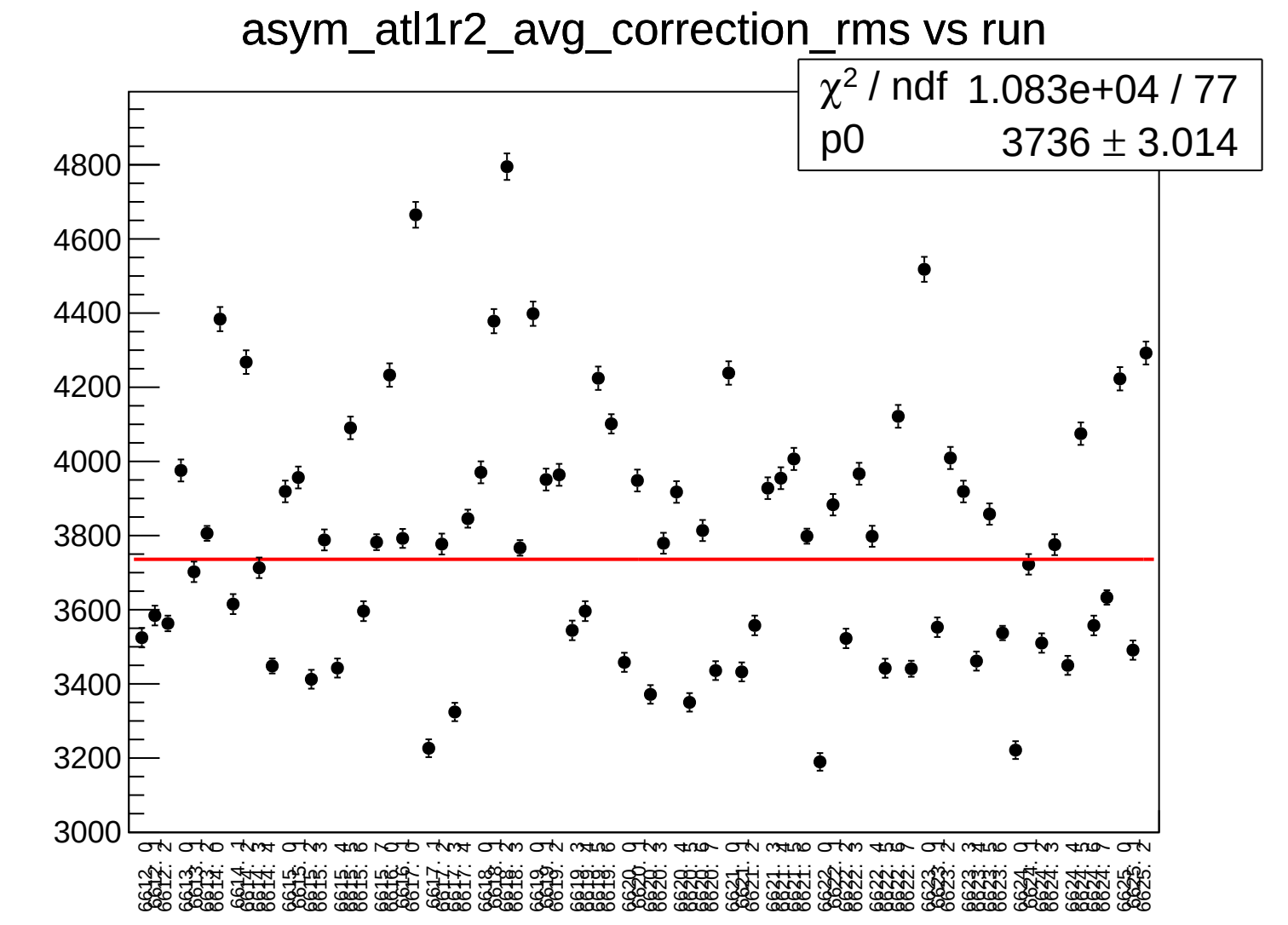

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 63.66 / 77
p0 4877 ± 2426
×10³
pull
Entries 78
Mean 579.8
Std Dev 549.9

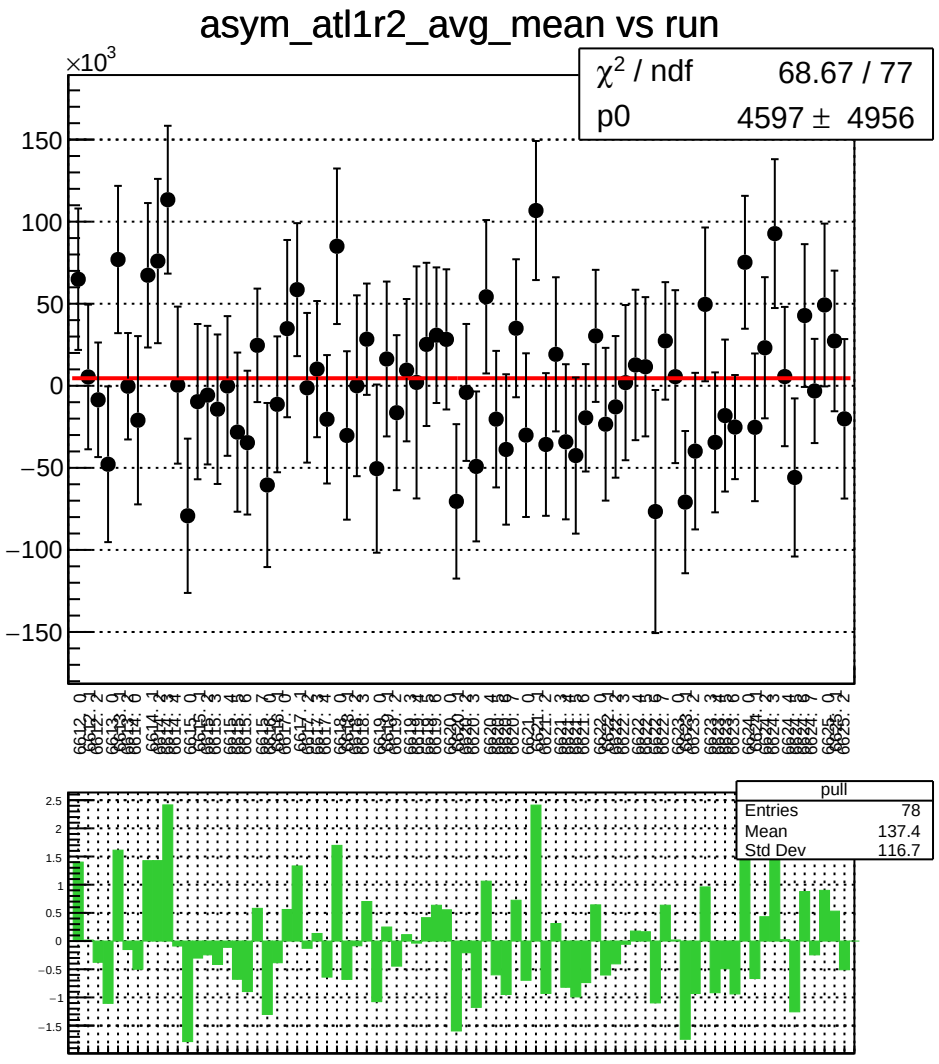

pull1D
Entries 78
Mean −0.0049
Std Dev 0.9034

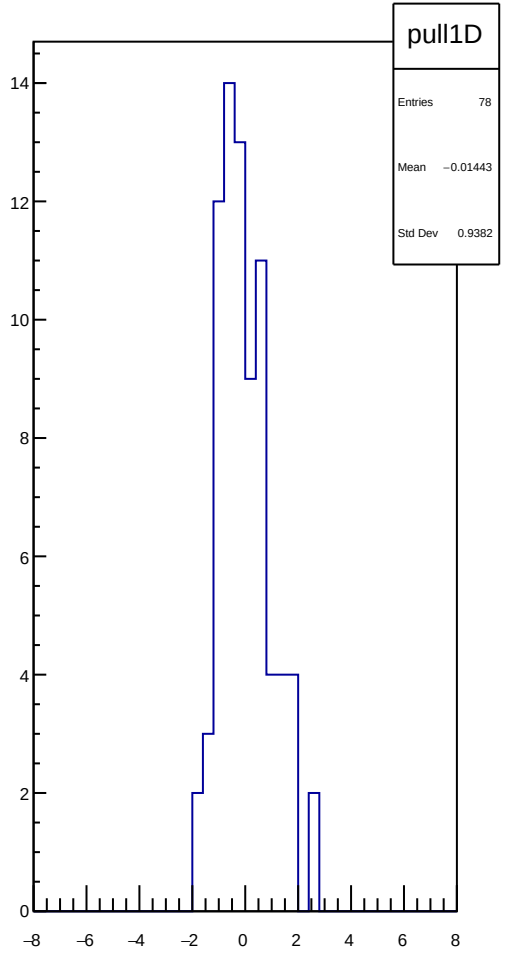

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 2.305e+04 / 77
p0 2118 ± 1.716
6000
5500
5000
4500
4000
3500
3000
2500
2000

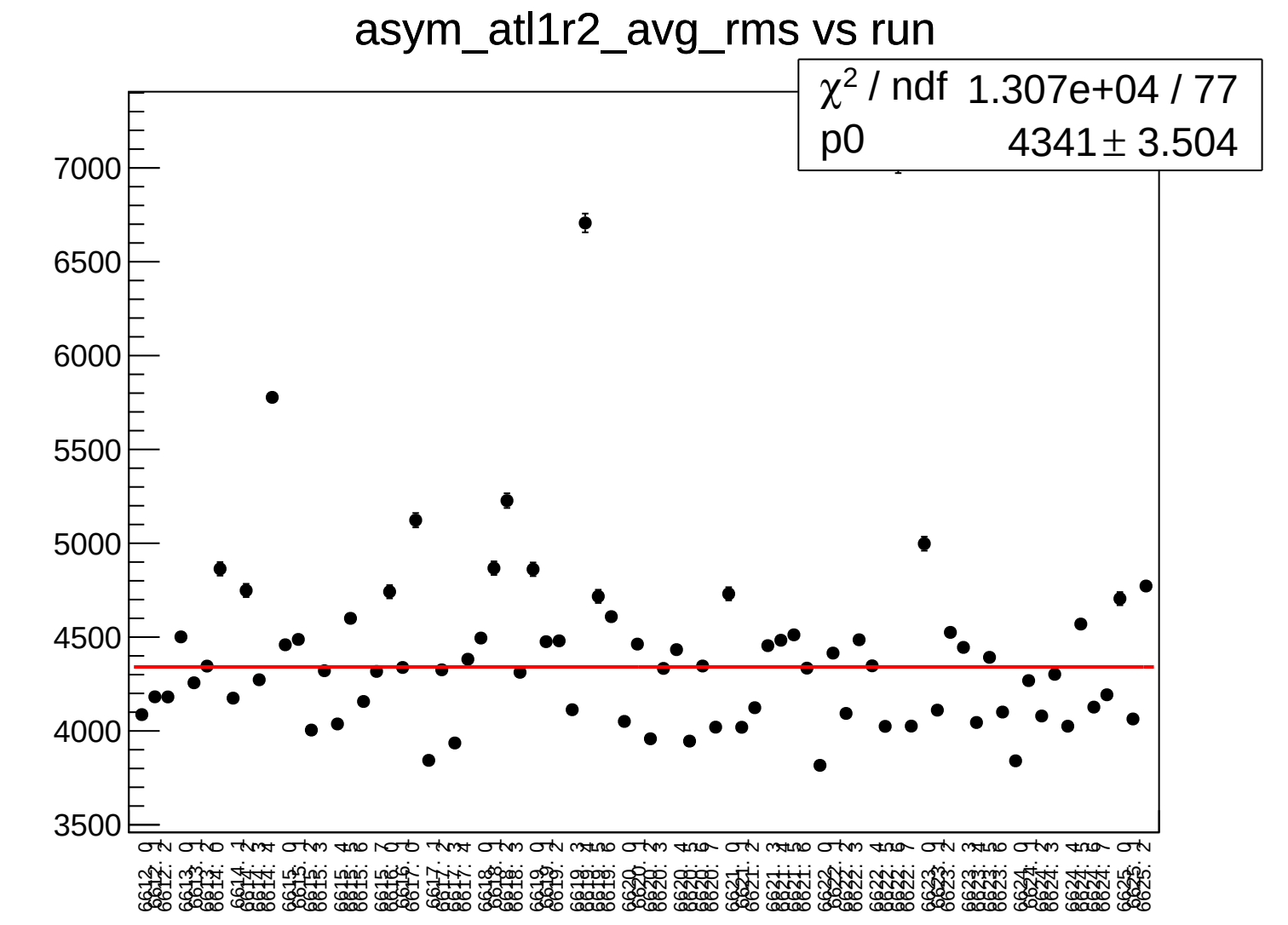

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 75.31 / 77
p0 −903 ± 4262
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 52.73
Std Dev 40.08
2
1
0
−1
−2

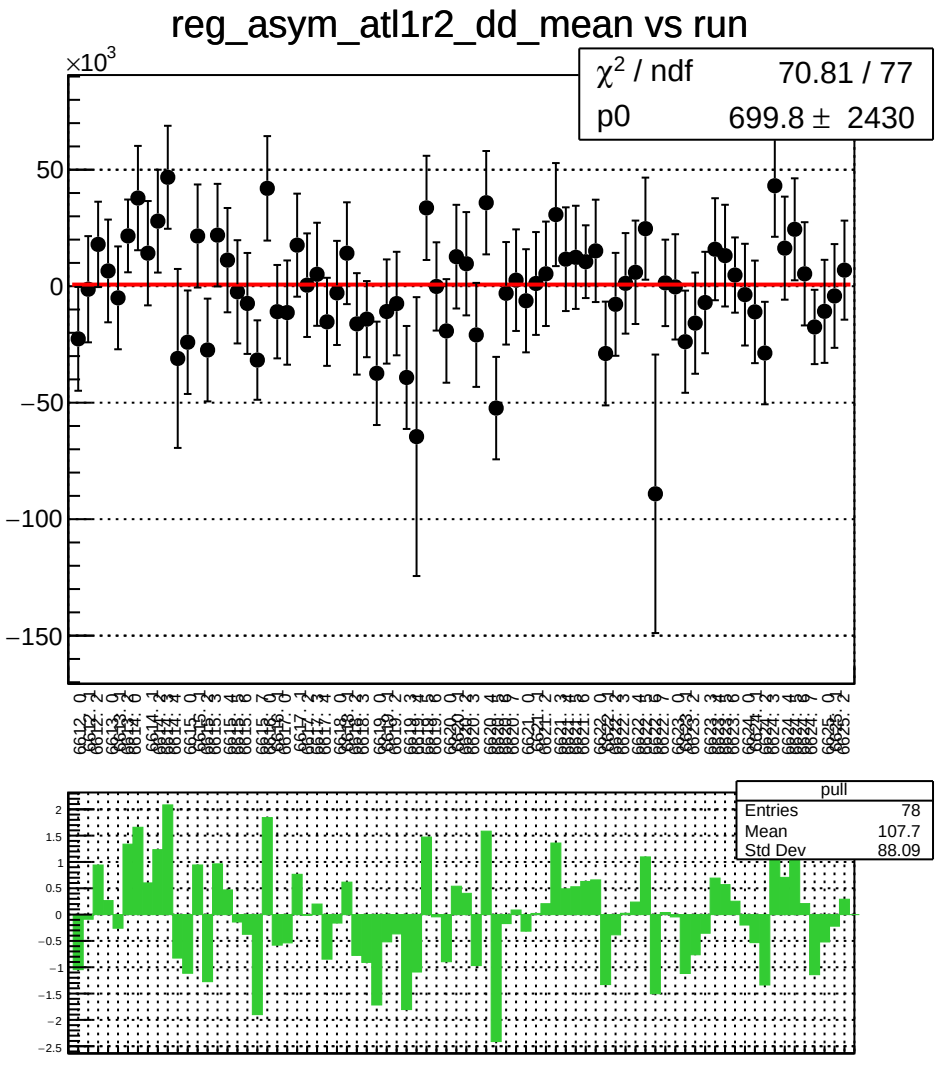

pull1D
Entries 78
Mean 0.023
Std Dev 0.9823
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

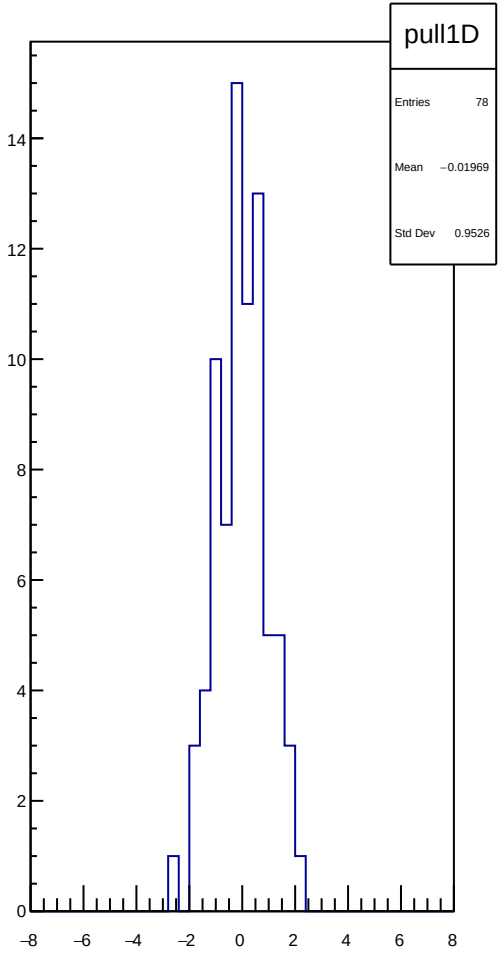

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.083e+04 / 77
p0 3736 ± 3.014
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

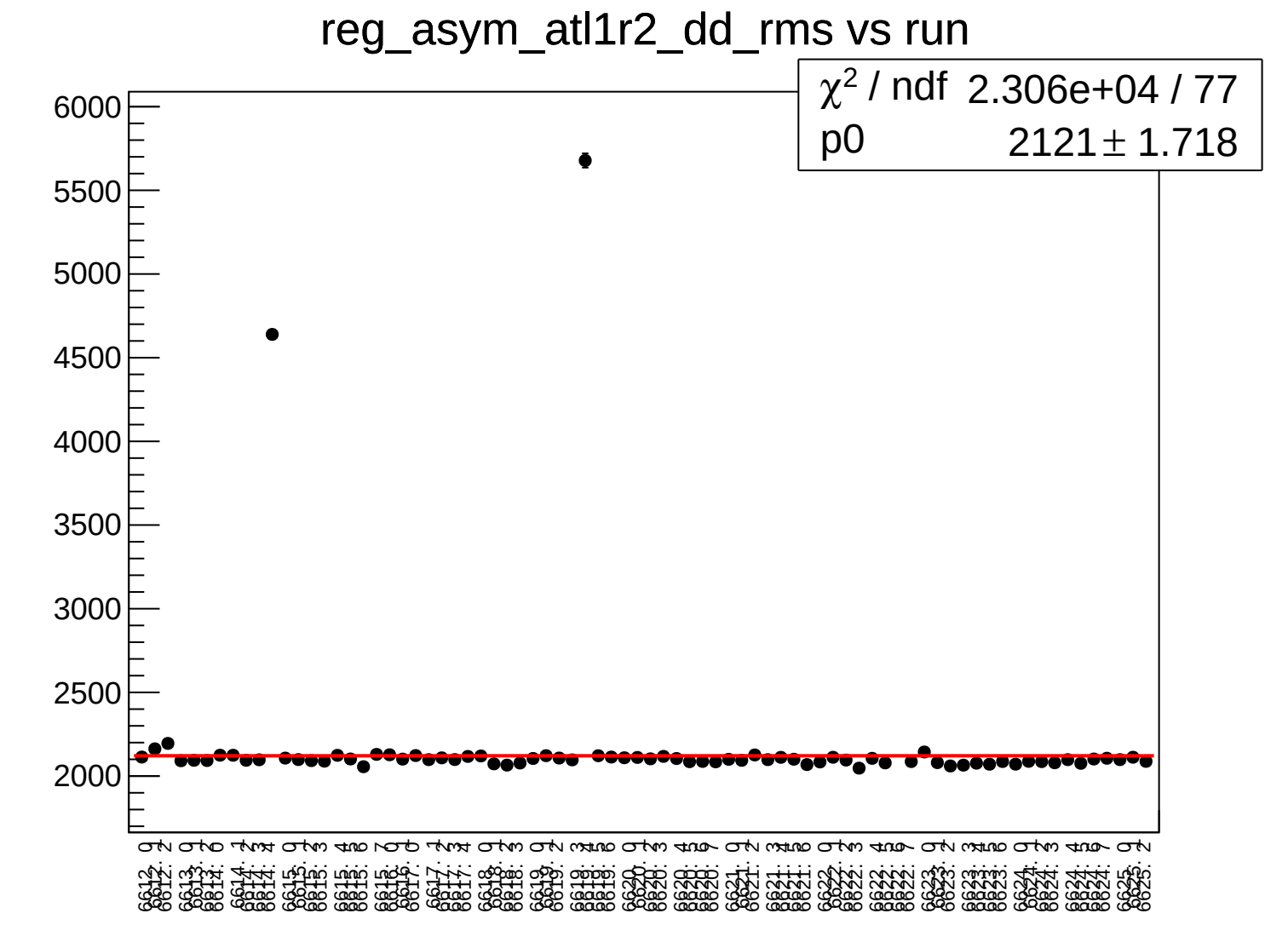

asym_atl1r2_avg_mean vs run
χ² / ndf 68.67 / 77
p0 4597 ± 4956
×10³
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 137.4
Std Dev 116.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

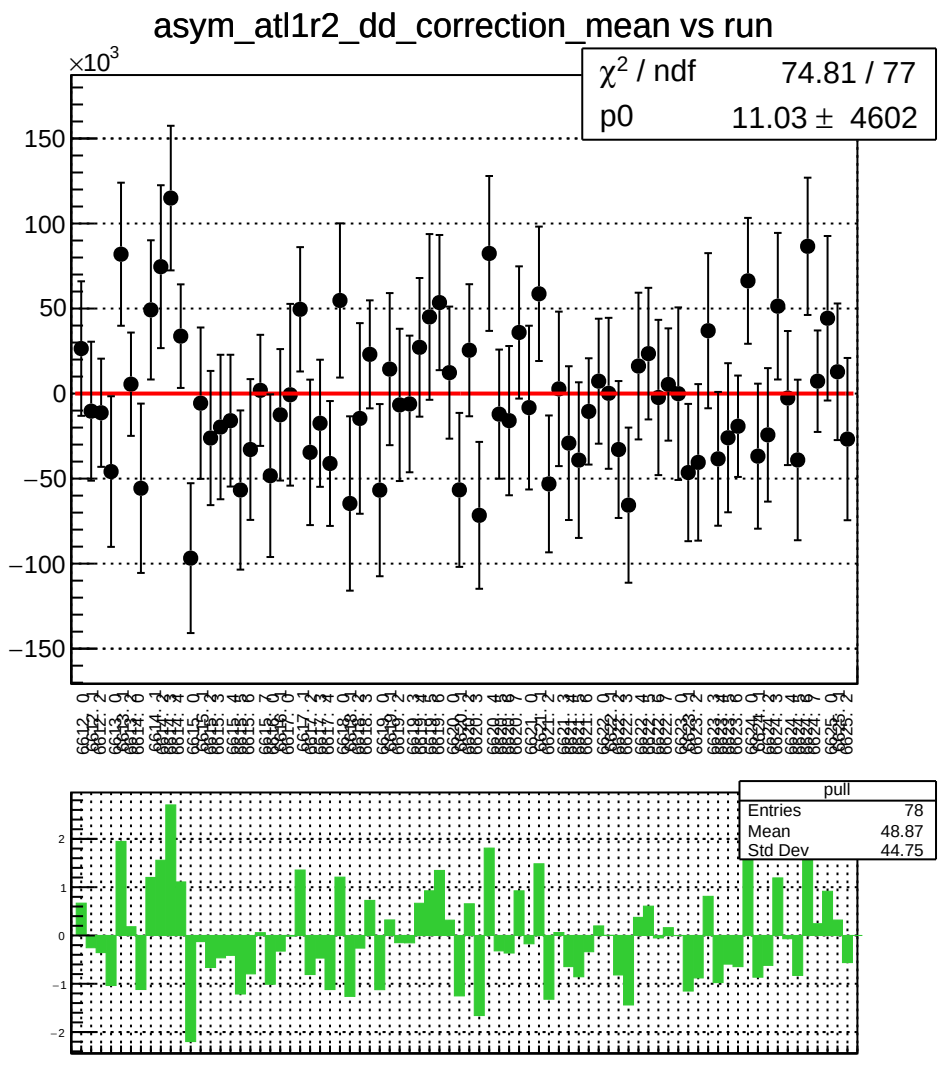

pull1D
Entries 78
Mean −0.01443
Std Dev 0.9382
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

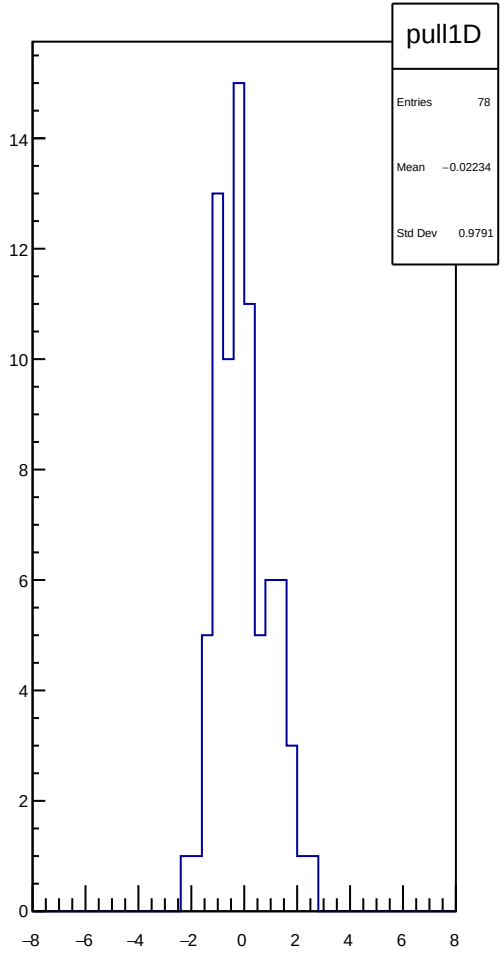

asym_atl1r2_avg_rms vs run
χ² / ndf 1.307e+04 / 77
p0 4341 ± 3.504
7000
6500
6000
5500
5000
4500
4000
3500

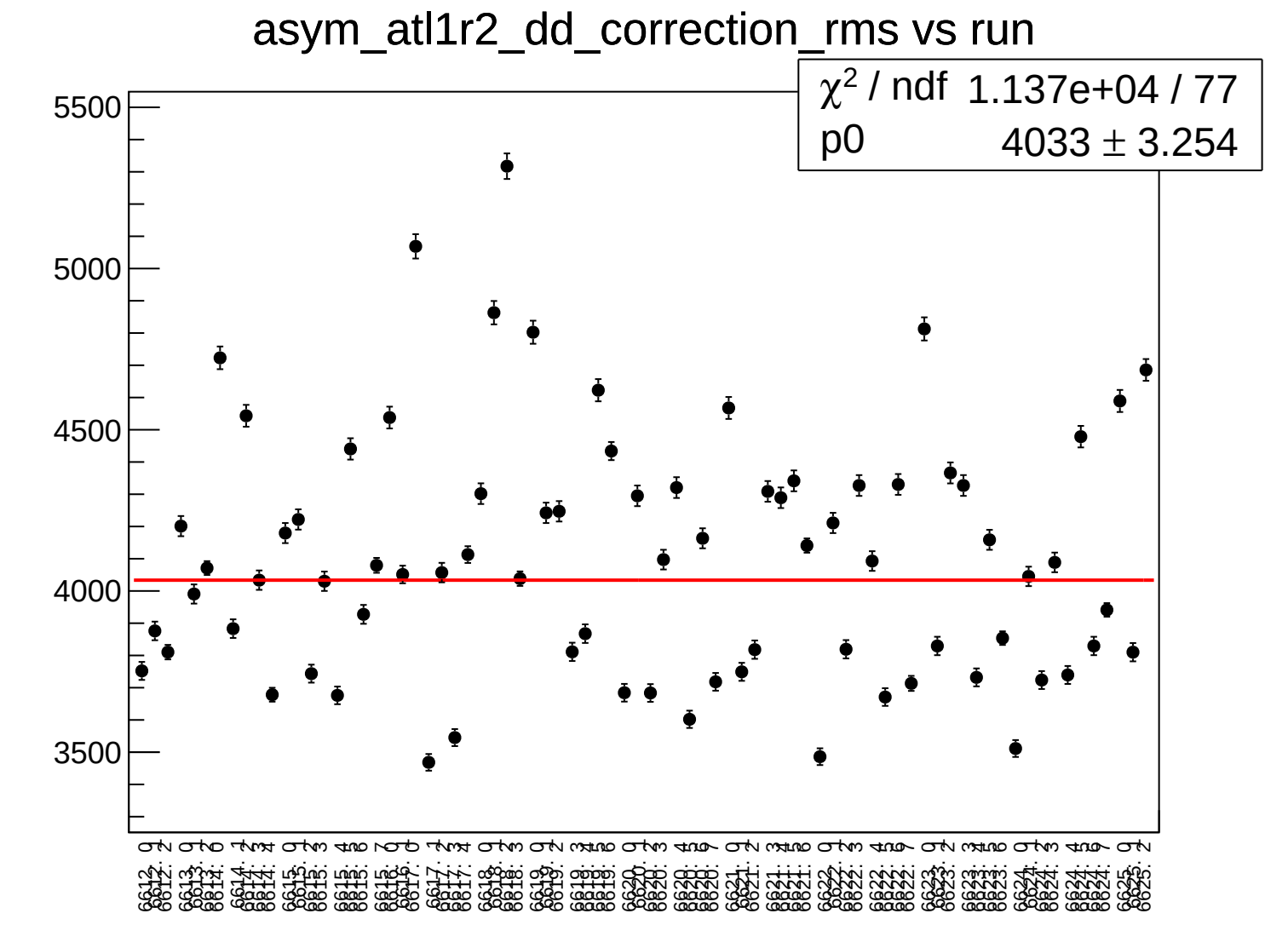

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 70.81 / 77
p0 699.8 ± 2430
pull
Entries 78
Mean 107.7
Std Dev 88.09

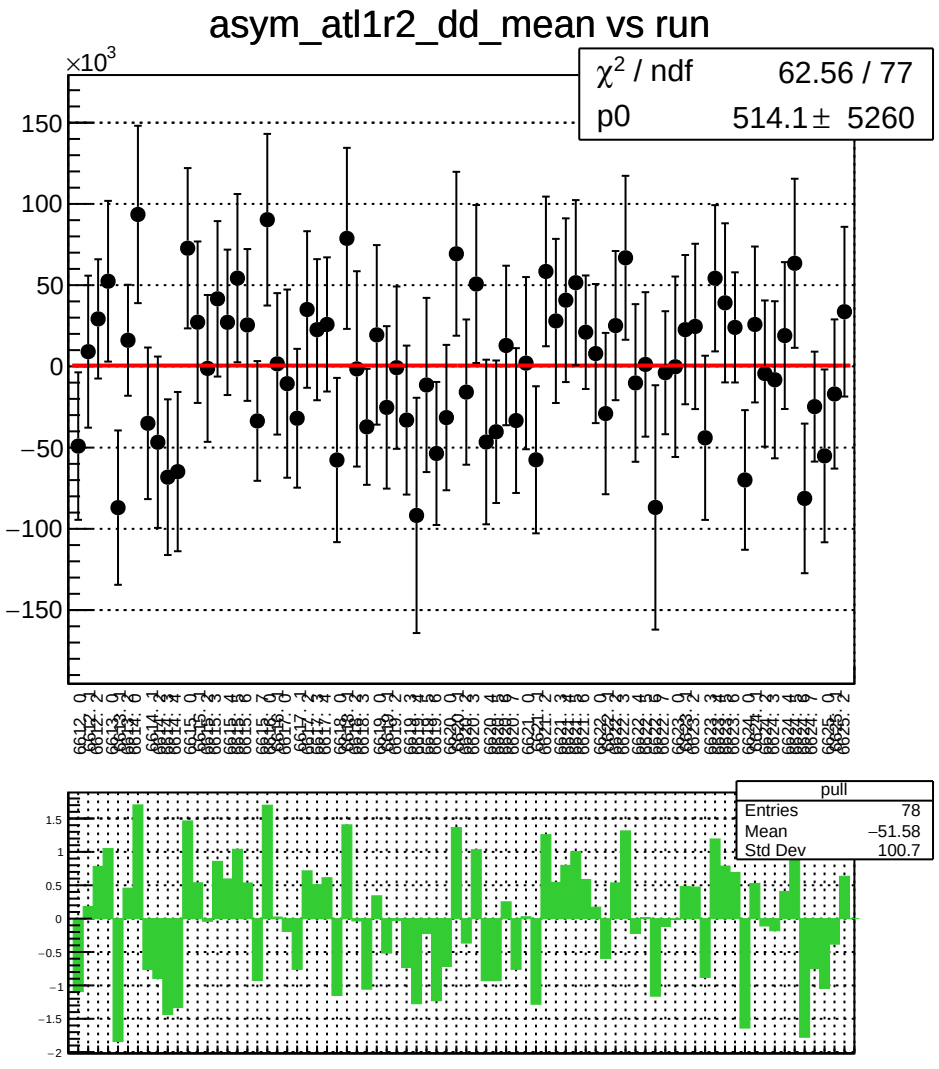

pull1D
Entries 78
Mean −0.01969
Std Dev 0.9526

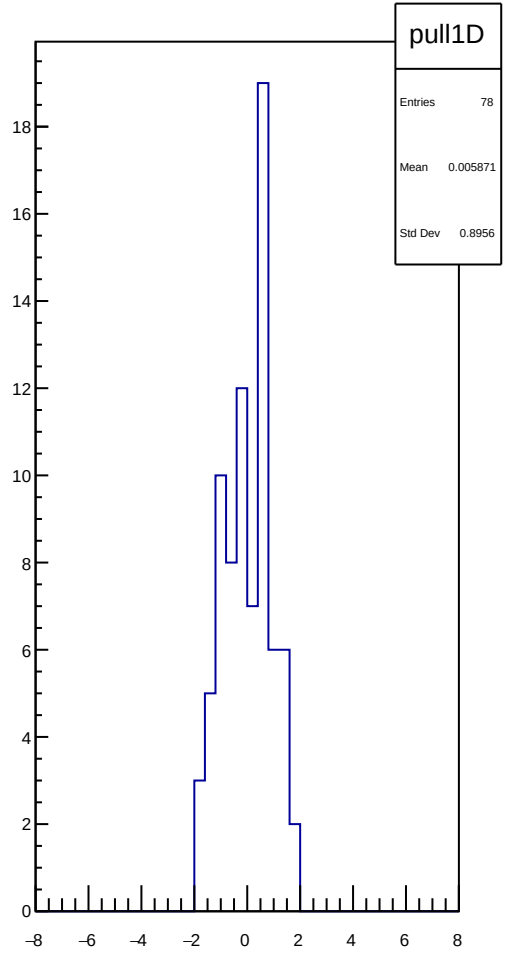

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 2.306e+04 / 77
p0 2121 ± 1.718
6000
5500
5000
4500
4000
3500
3000
2500
2000

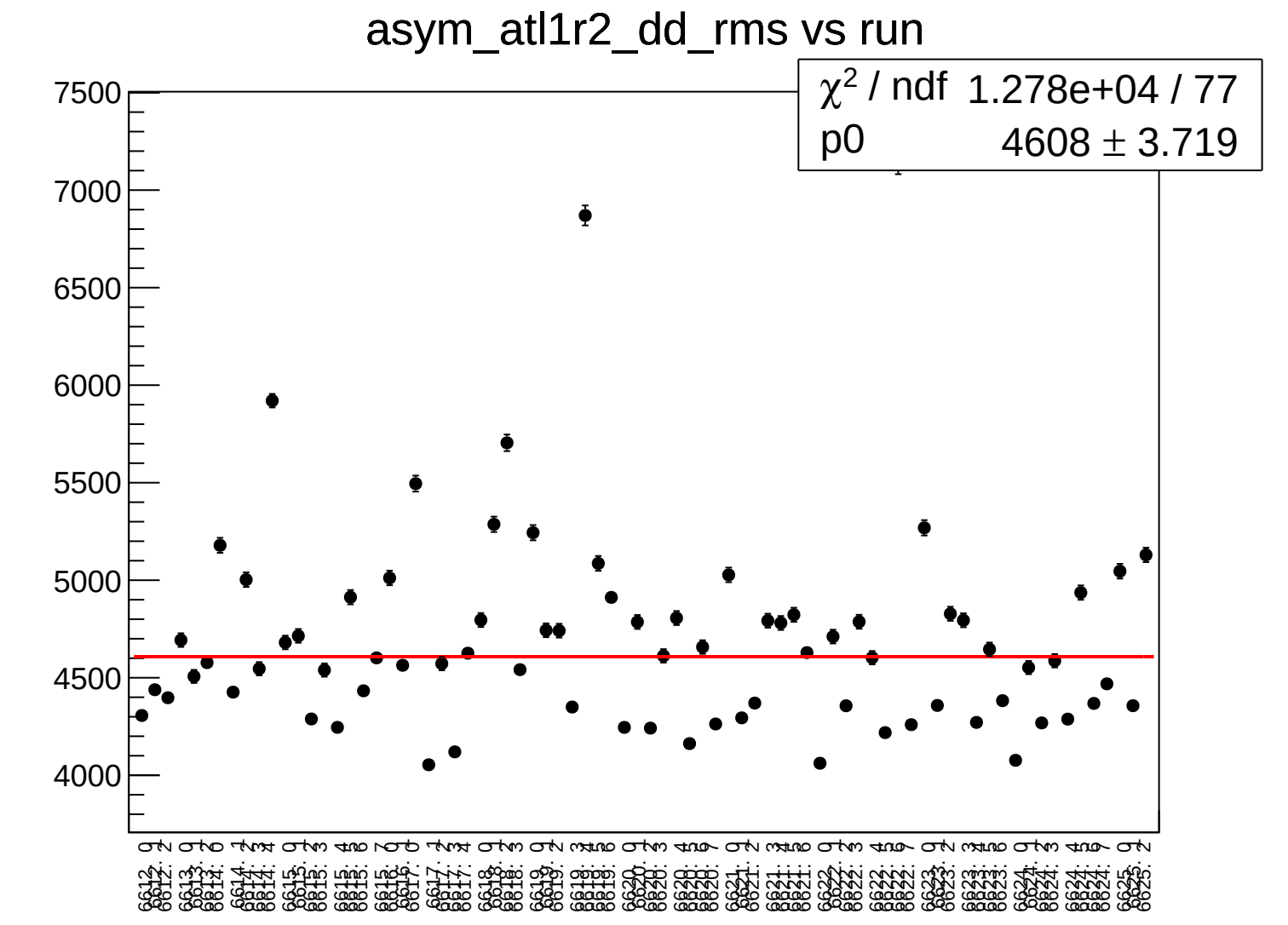

asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 74.81 / 77
p0 11.03 ± 4602
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 48.87
Std Dev 44.75
2
1
0
−1
−2

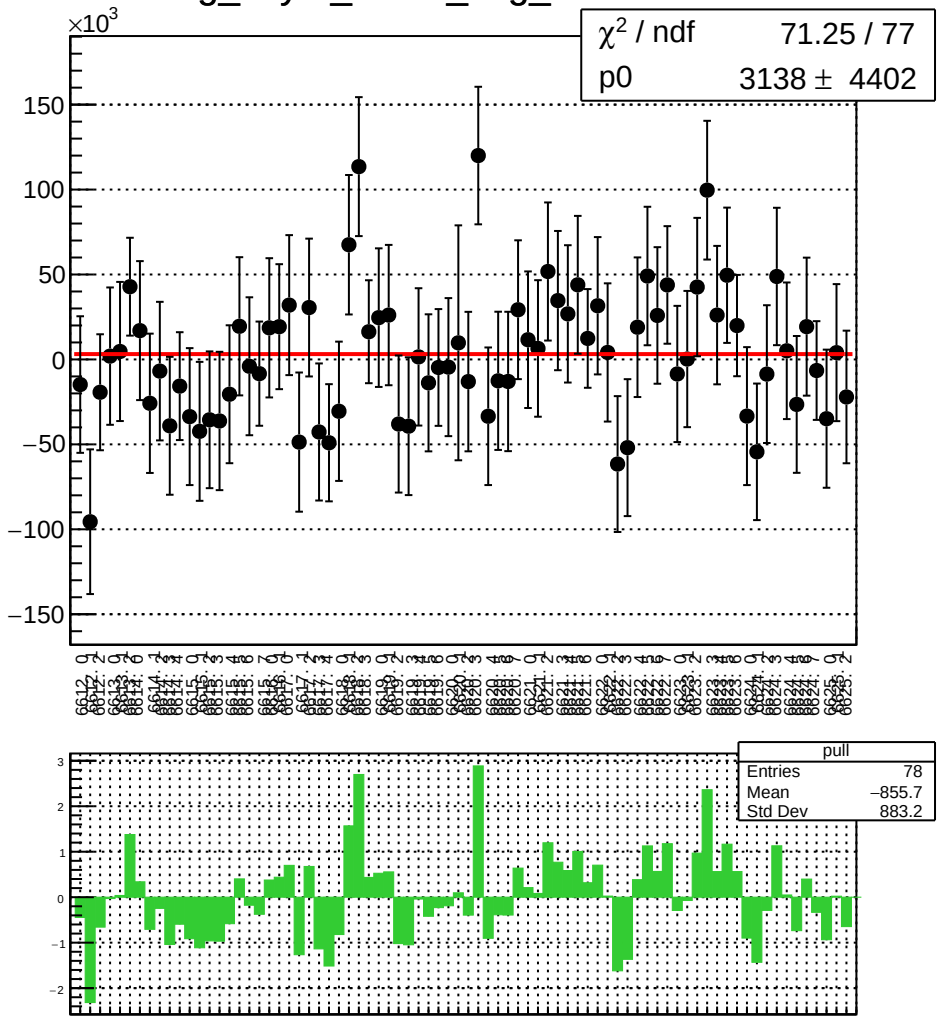

pull1D
Entries 78
Mean −0.02234
Std Dev 0.9791
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

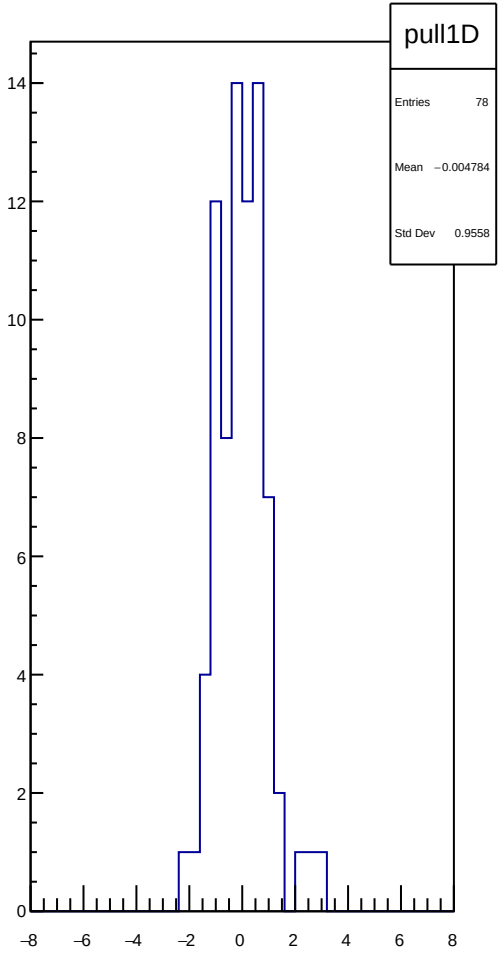

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.137e+04 / 77
p0 4033 ± 3.254
5500
5000
4500
4000
3500

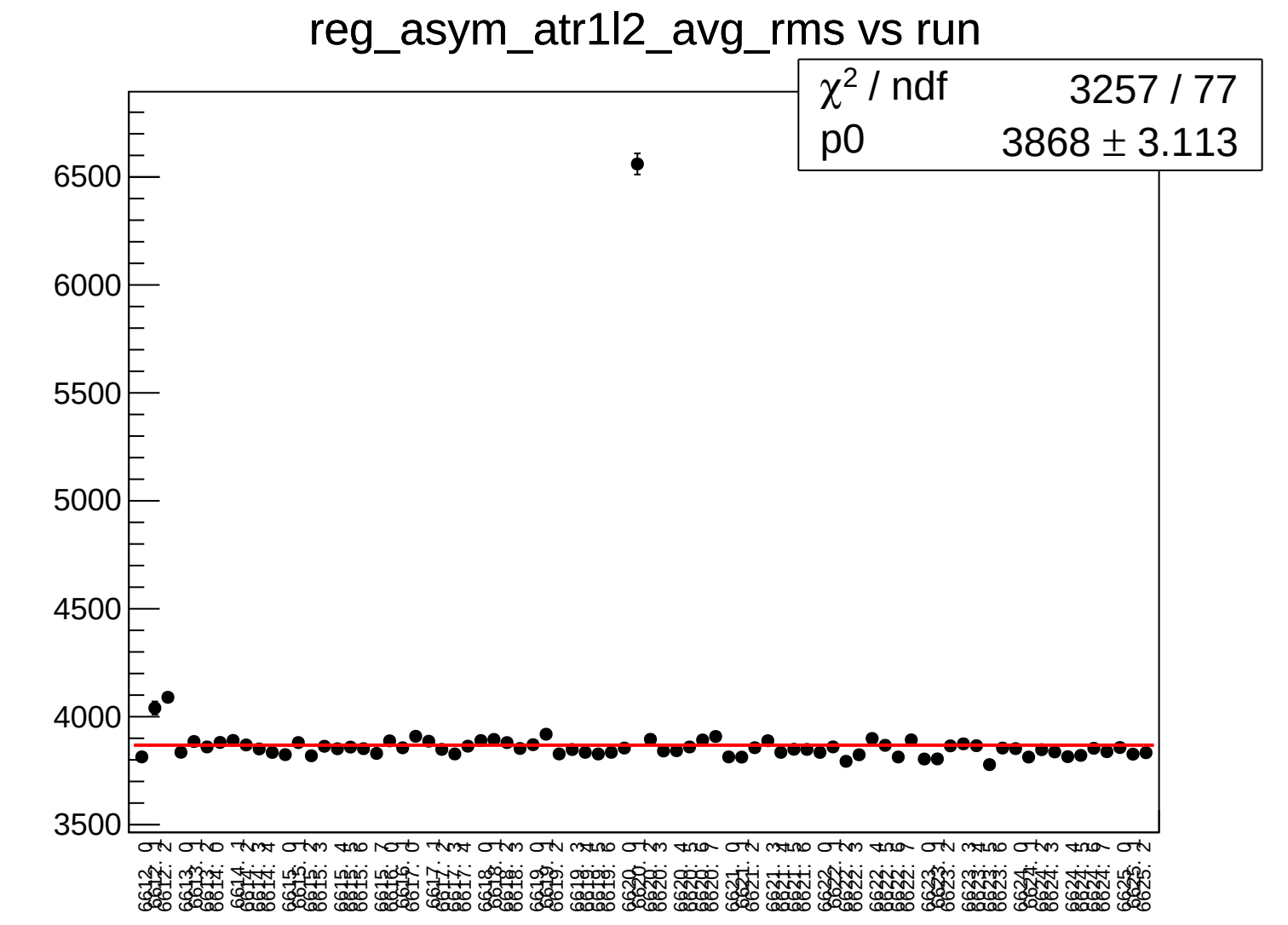

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 62.56 / 77
p0 514.1 ± 5260
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −51.58
Std Dev 100.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

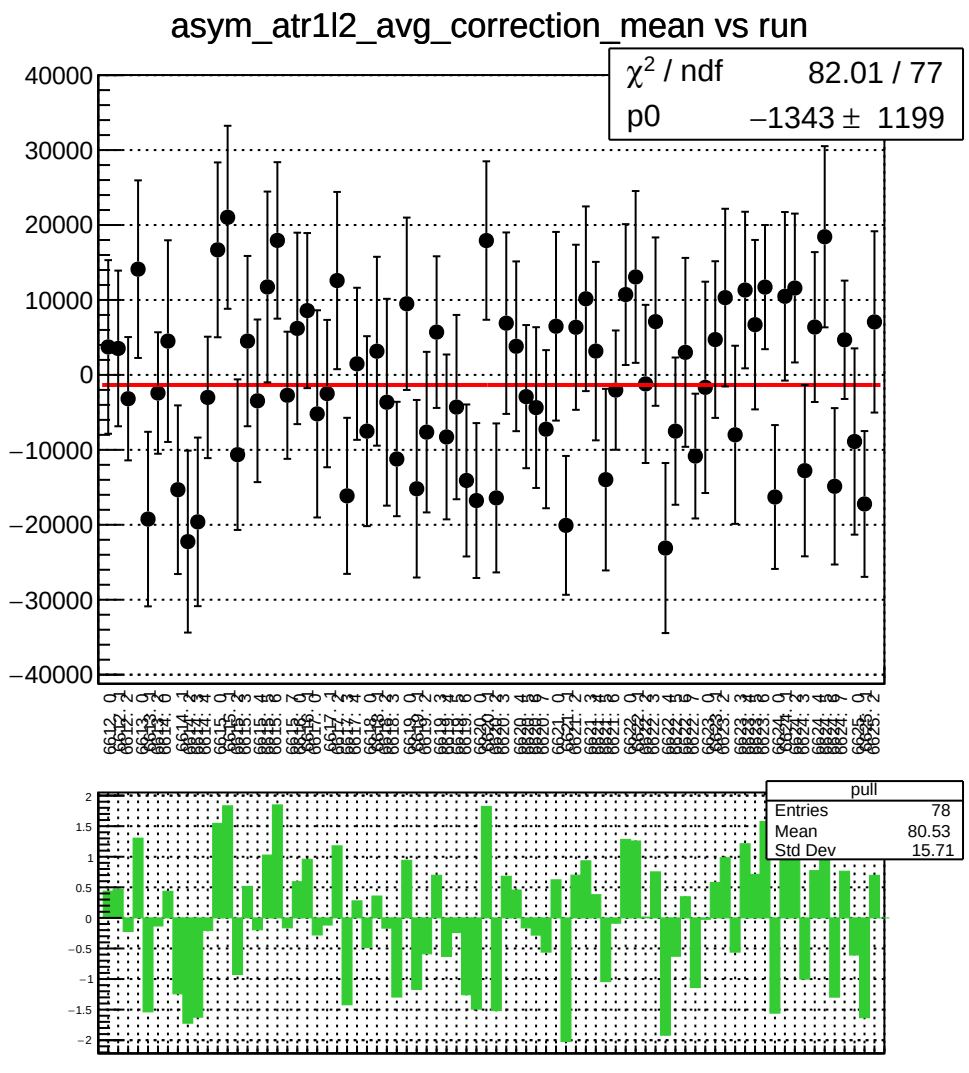

pull1D
Entries 78
Mean 0.005871
Std Dev 0.8956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

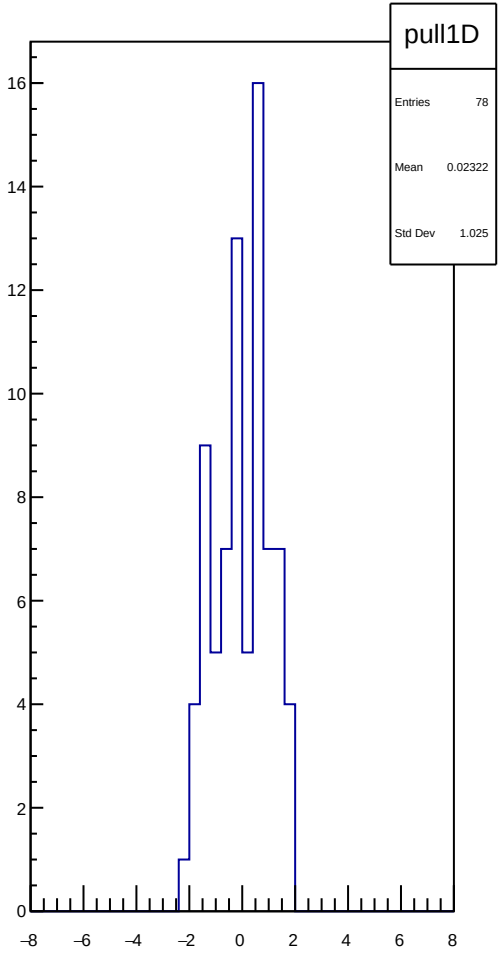

asym_atl1r2_dd_rms vs run
χ² / ndf 1.278e+04 / 77
p0 4608 ± 3.719
7500
7000
6500
6000
5500
5000
4500
4000

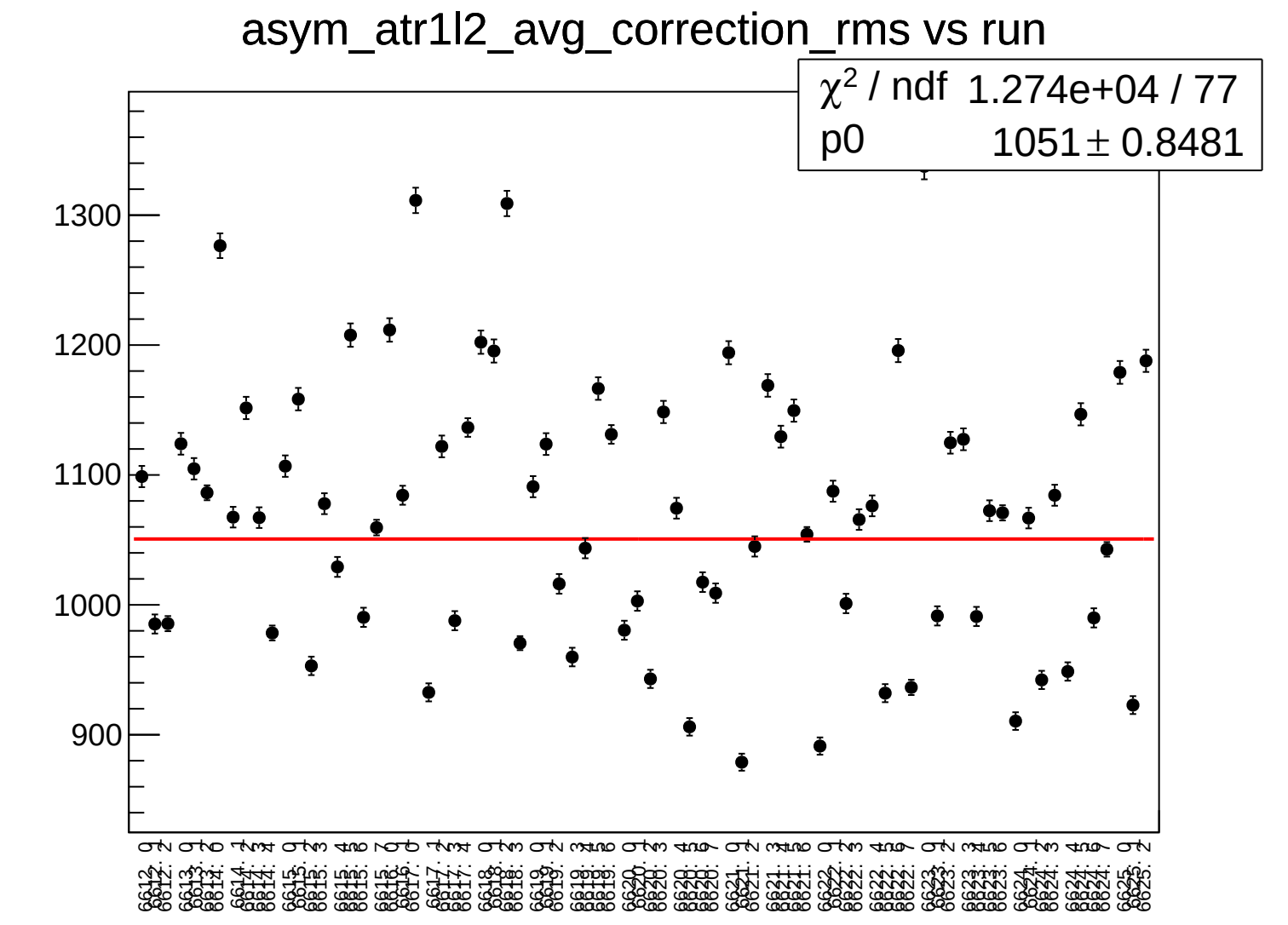

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 71.25 / 77
p0 3138 ± 4402
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −855.7
Std Dev 883.2
3
2
1
0
−1
−2

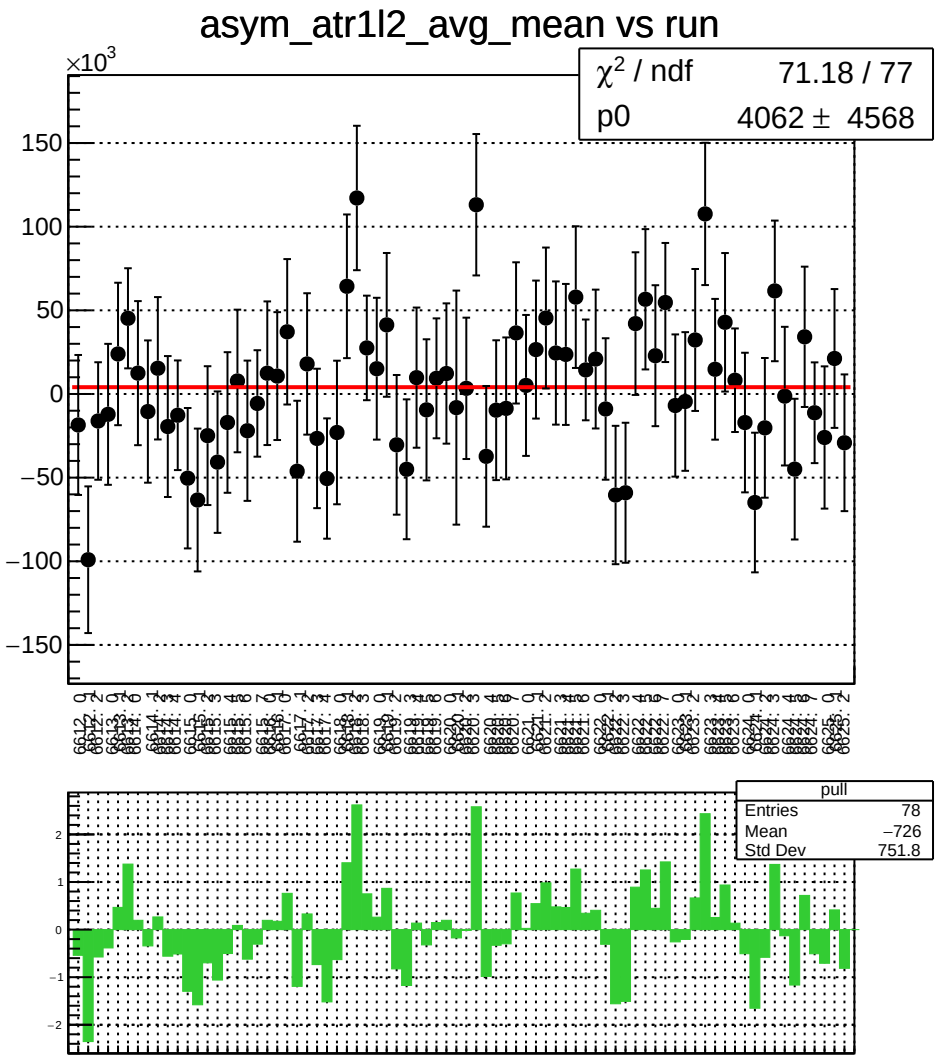

pull1D
Entries 78
Mean −0.004784
Std Dev 0.9558
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

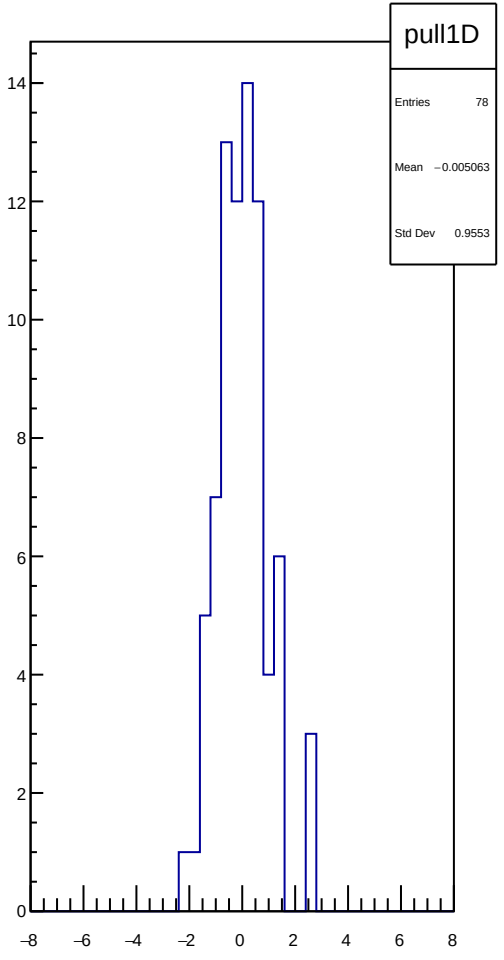

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 3257 / 77
p0 3868 ± 3.113
6500
6000
5500
5000
4500
4000
3500

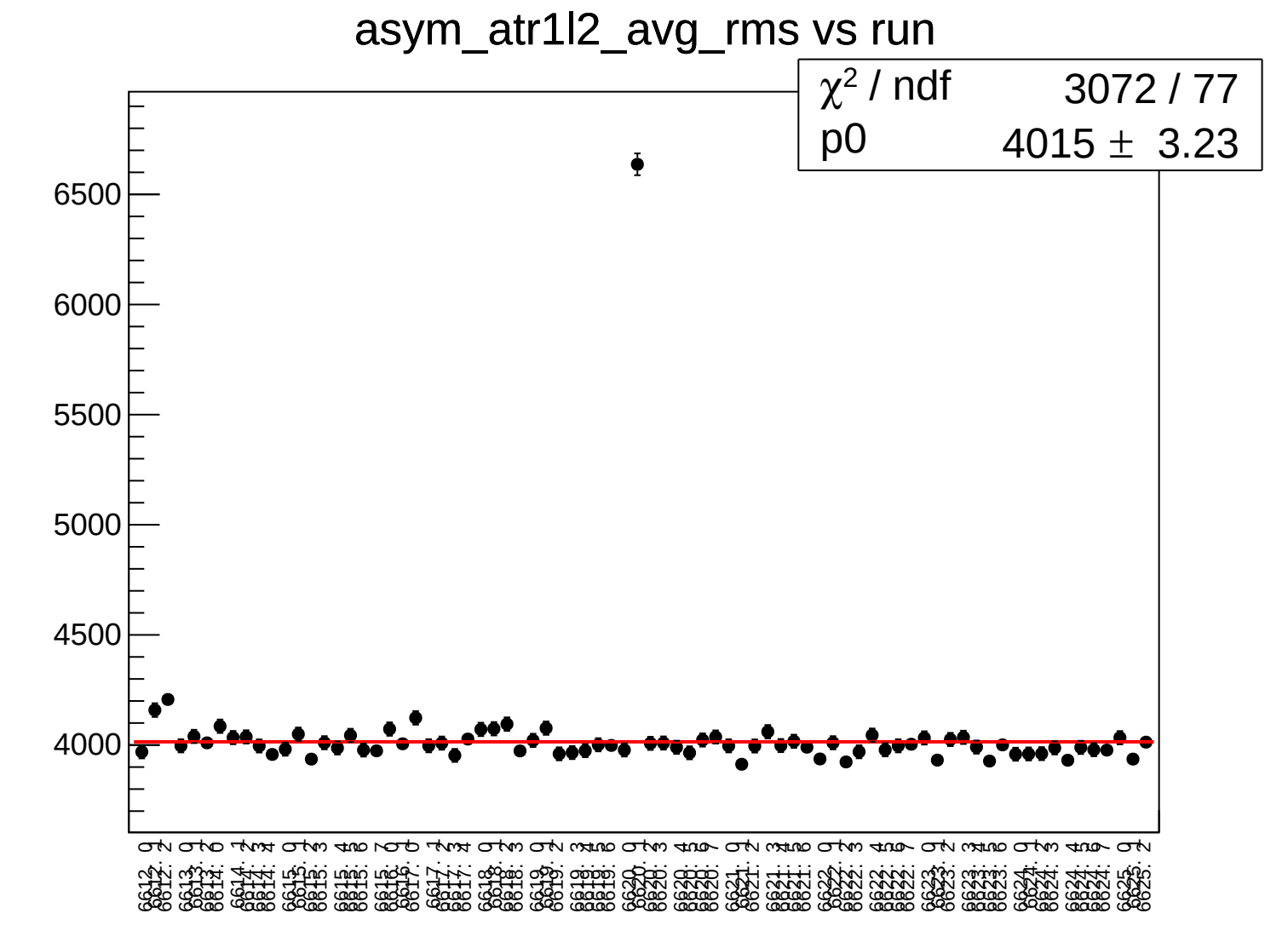

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 82.01 / 77
p0 −1343 ± 1199
pull
Entries 78
Mean 80.53
Std Dev 15.71

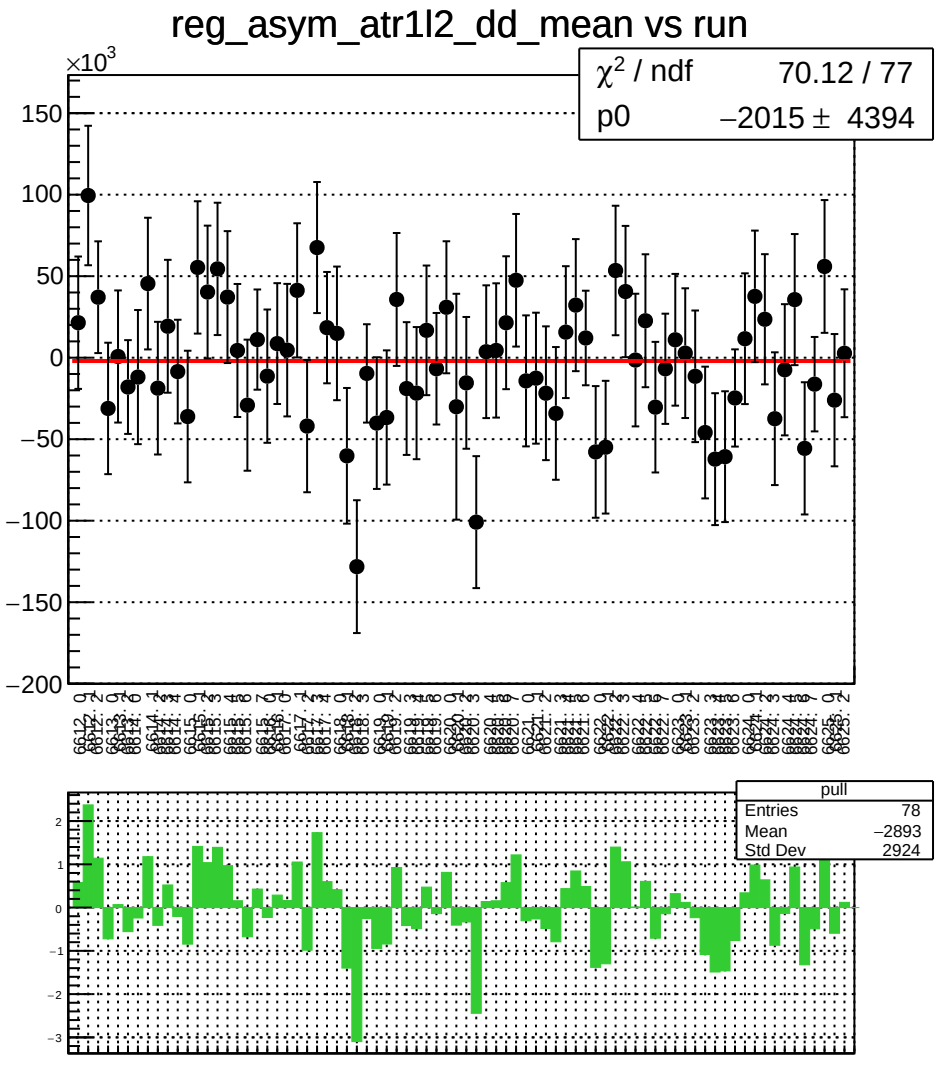

pull1D
Entries 78
Mean 0.02322
Std Dev 1.025

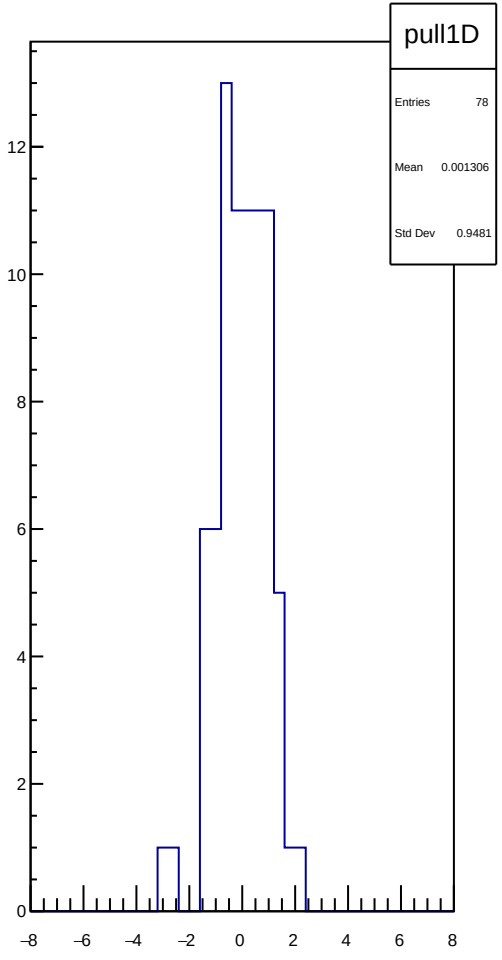

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.274e+04 / 77
p0 1051 ± 0.8481
1300
1200
1100
1000
900

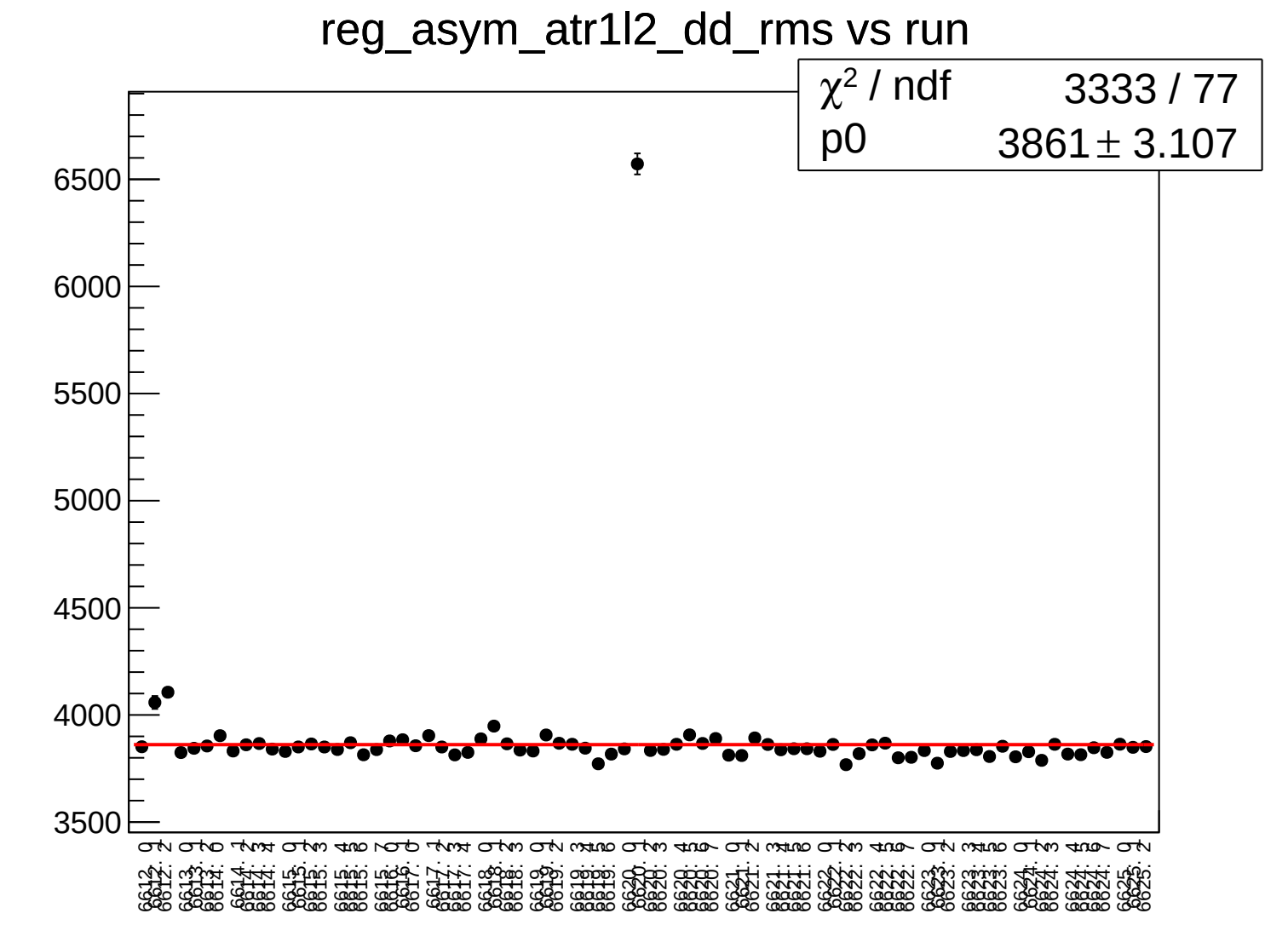

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 71.18 / 77
p0 4062 ± 4568
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean −726
Std Dev 751.8
2
1
0
−1
−2

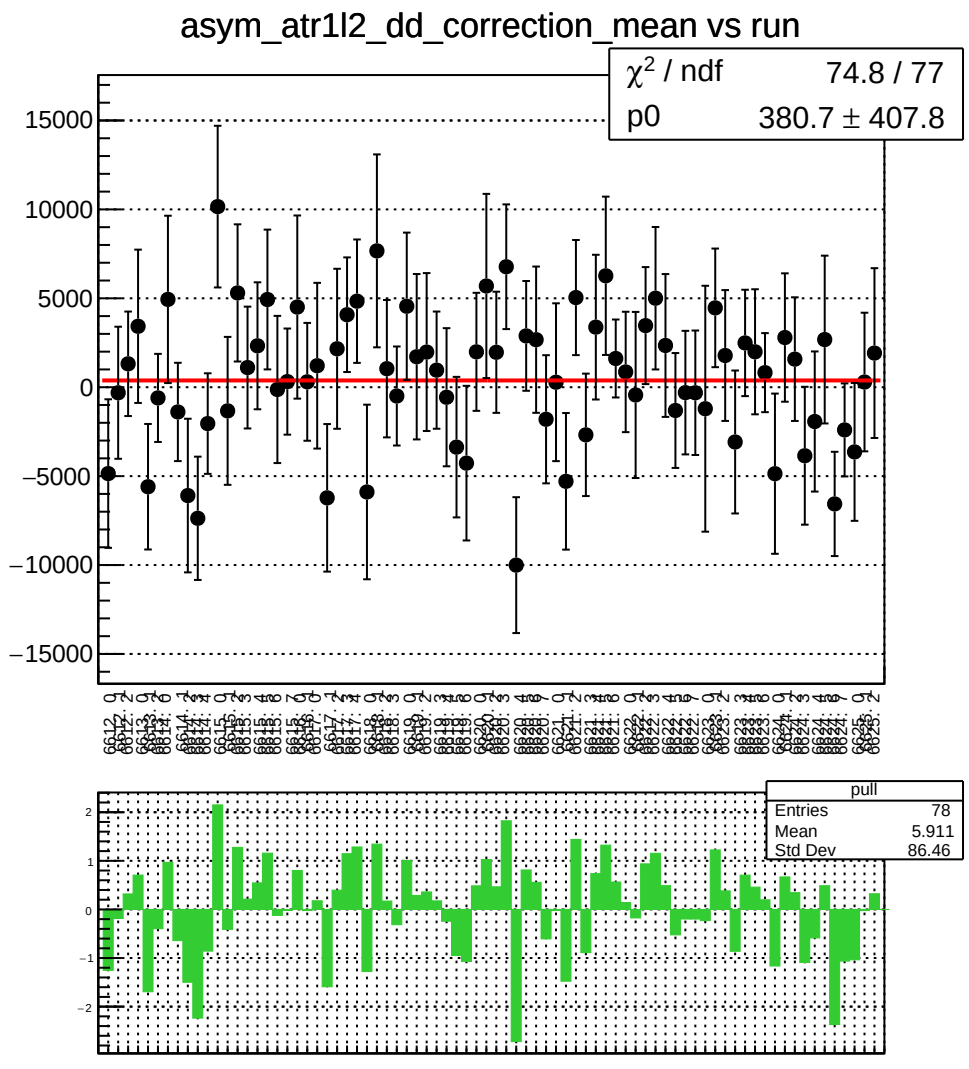

pull1D
Entries 78
Mean −0.005063
Std Dev 0.9553
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

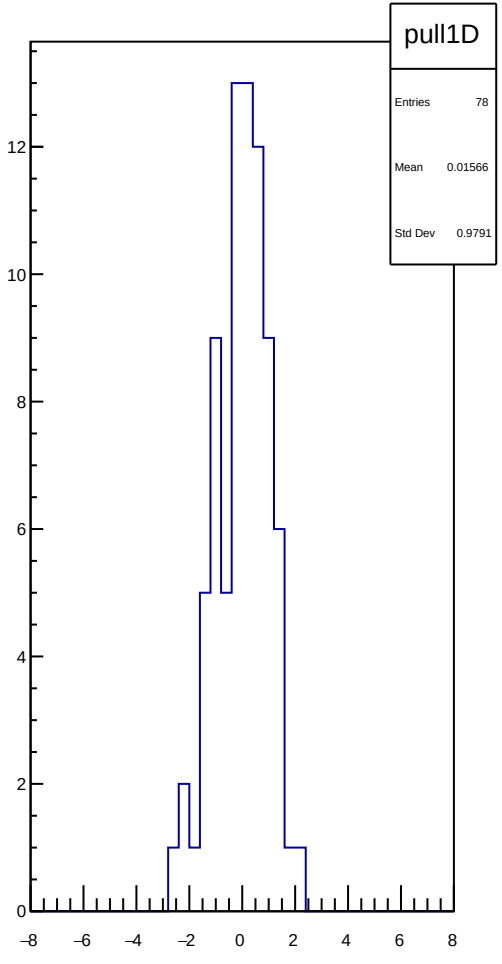

asym_atr1l2_avg_rms vs run
χ² / ndf 3072 / 77
p0 4015 ± 3.23
6500
6000
5500
5000
4500
4000

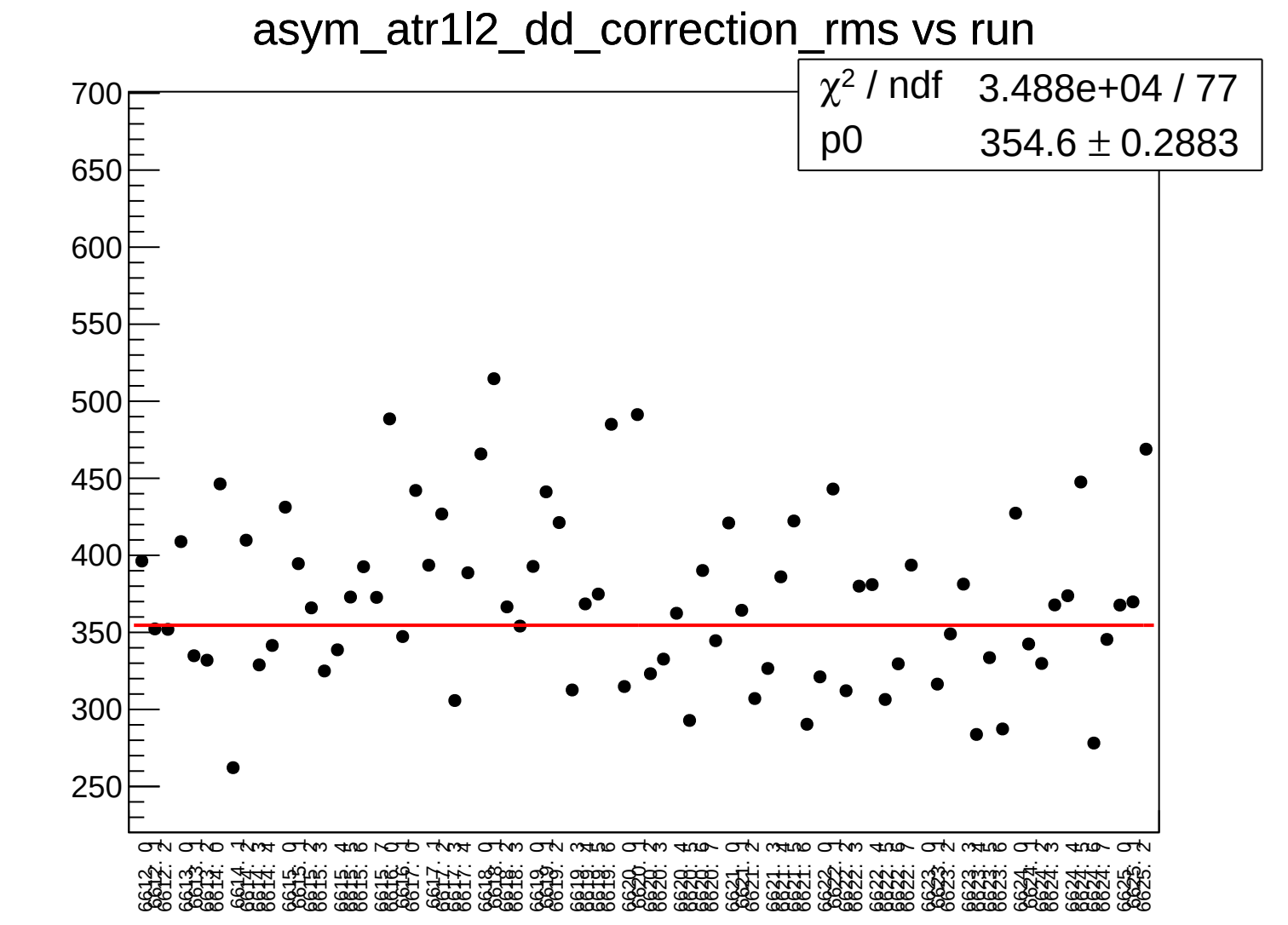

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 70.12 / 77
p0 −2015 ± 4394
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean −2893
Std Dev 2924
2
1
0
−1
−2
−3

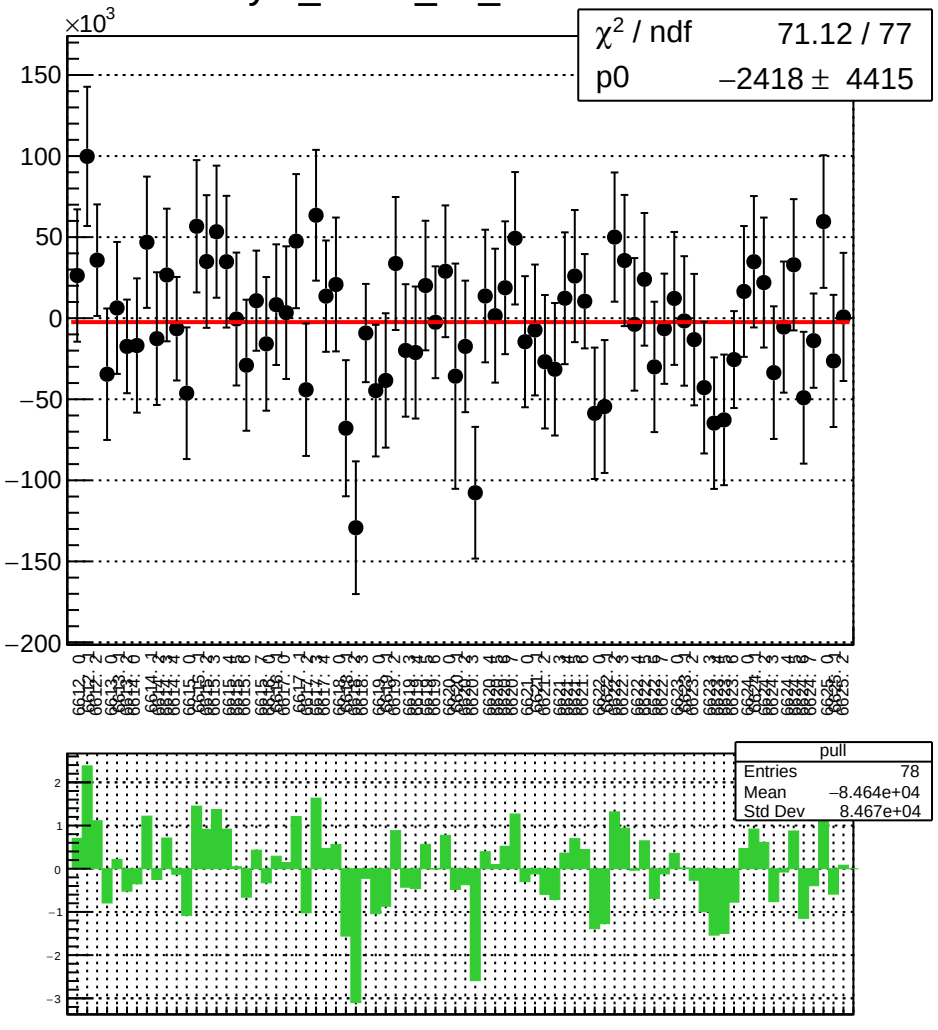

pull1D
Entries 78
Mean 0.001306
Std Dev 0.9481
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

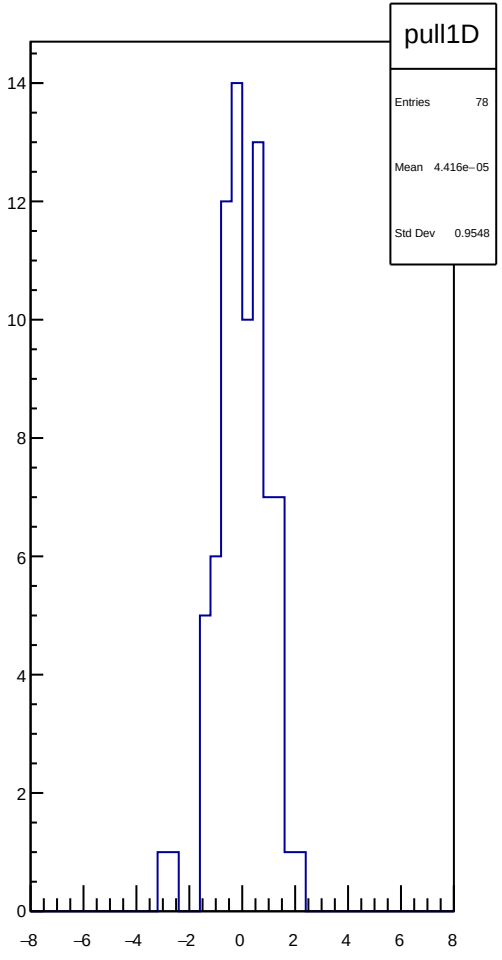

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 3333 / 77
p0 3861 ± 3.107
6500
6000
5500
5000
4500
4000
3500

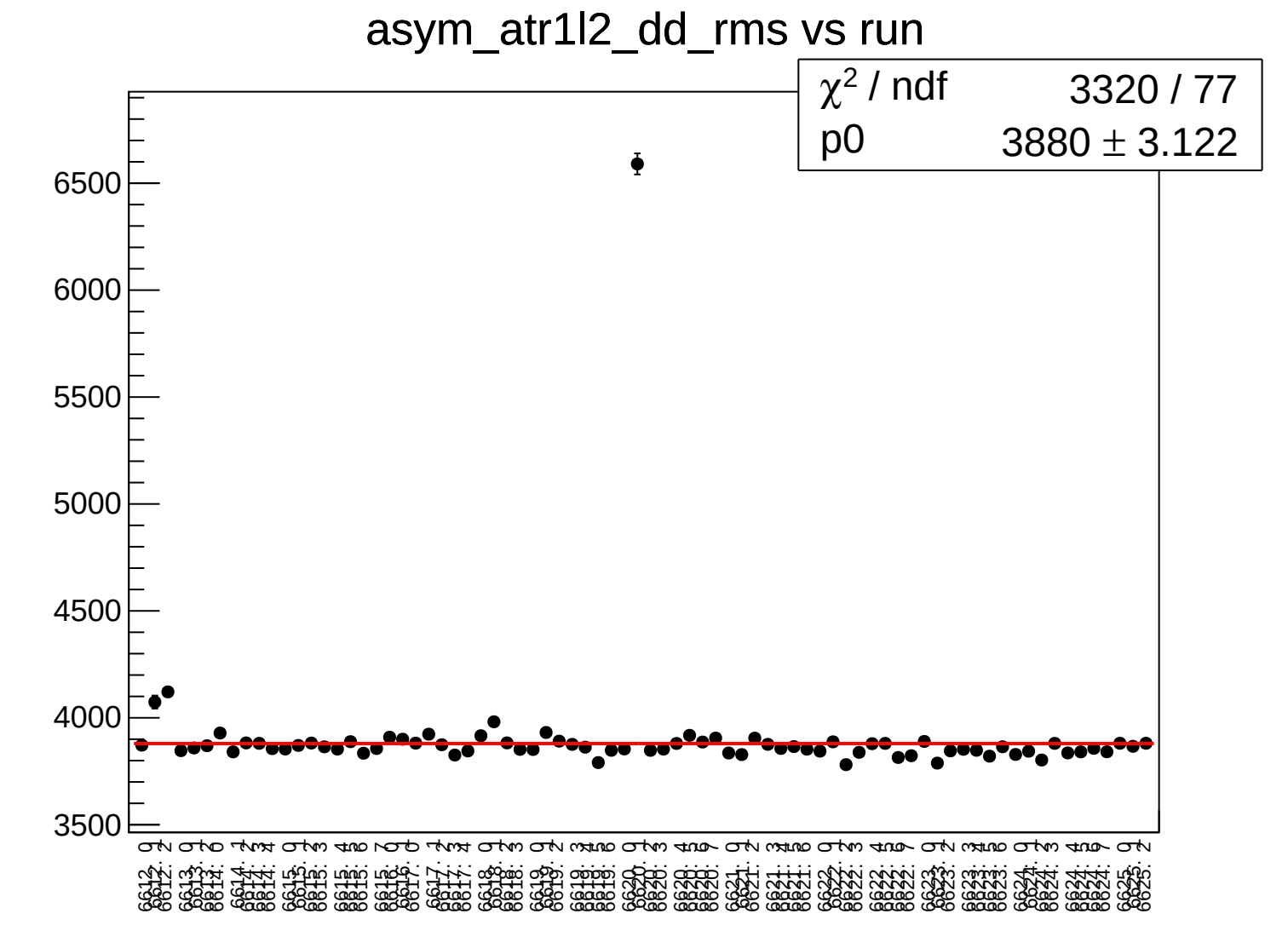

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 74.8 / 77
p0 380.7 ± 407.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 5.911
Std Dev 86.46
2
1
0
−1
−2

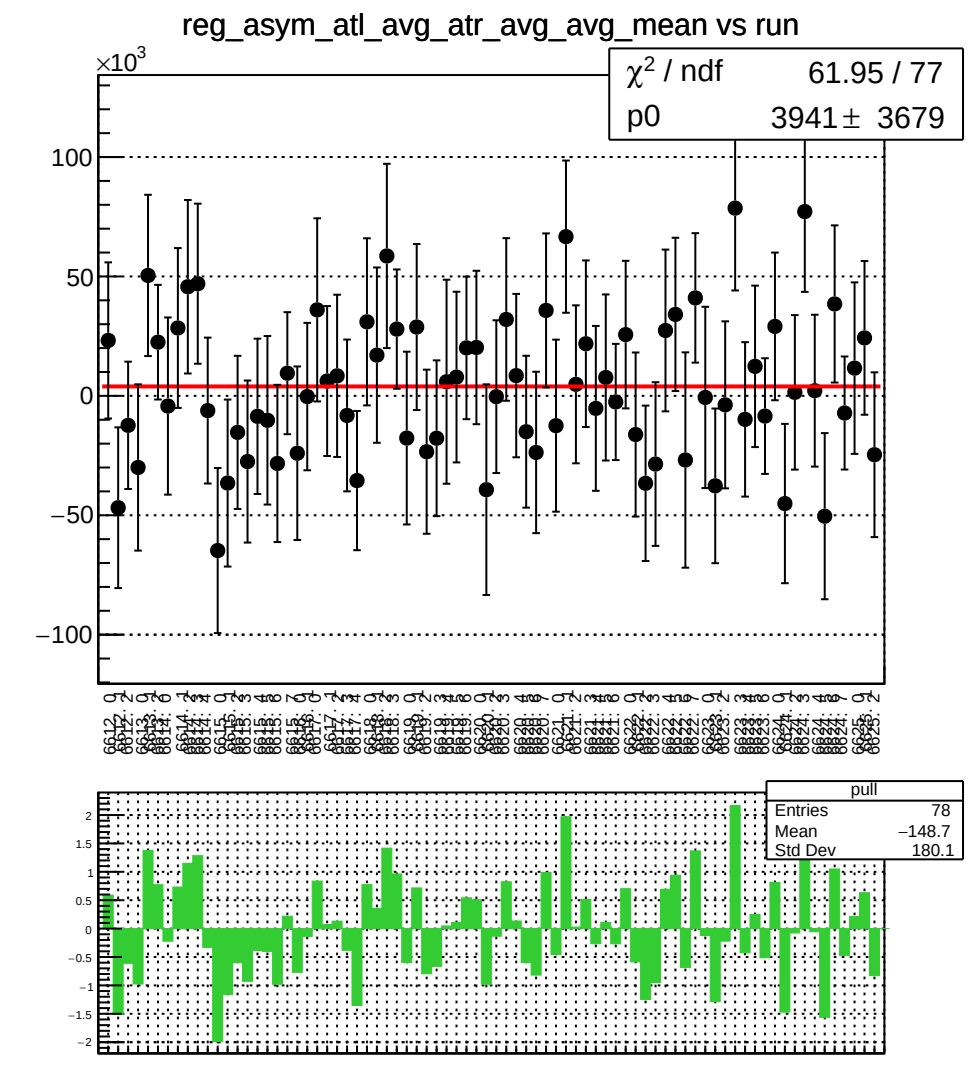

pull1D
Entries 78
Mean 0.01566
Std Dev 0.9791
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

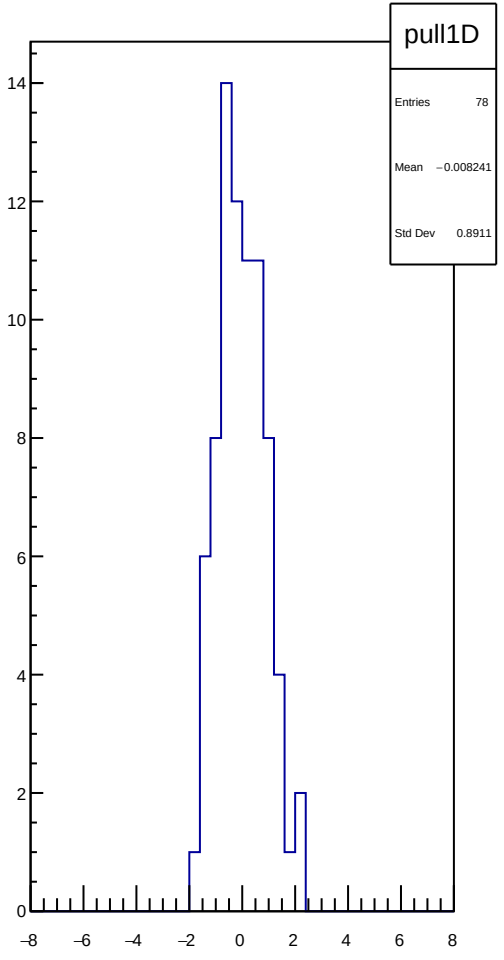

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 3.488e+04 / 77
p0 354.6 ± 0.2883
700
650
600
550
500
450
400
350
300
250

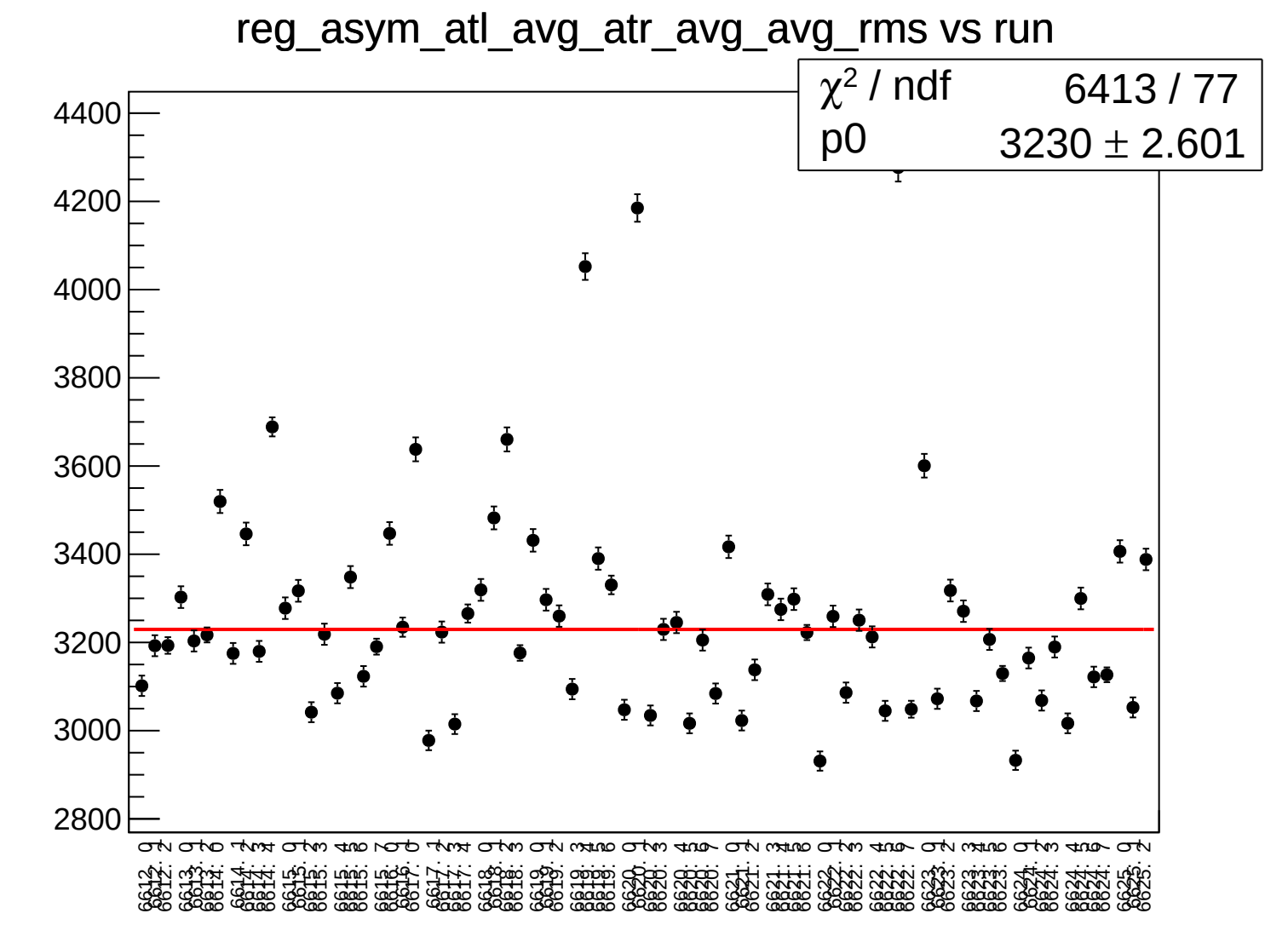

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 71.12 / 77
p0 −2418 ± 4415
pull
Entries 78
Mean −8.464e+04
Std Dev 8.467e+04

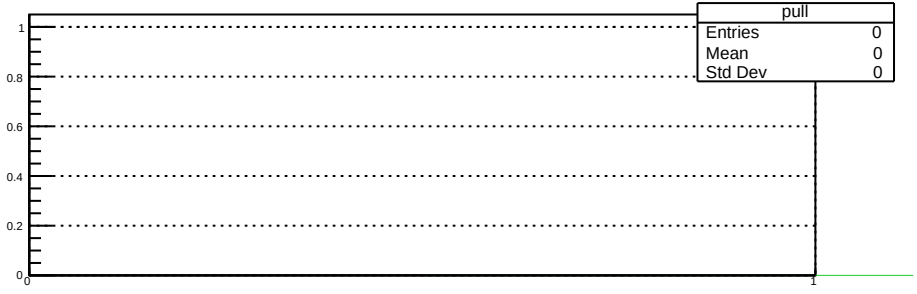

pull1D
Entries 78
Mean 4.416e−05
Std Dev 0.9548

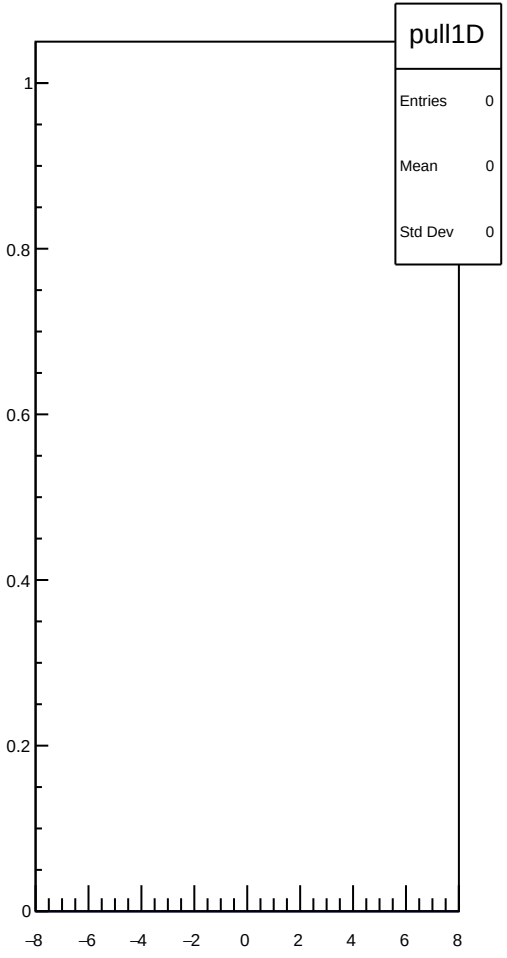

asym_atr1l2_dd_rms vs run
χ² / ndf 3320 / 77
p0 3880 ± 3.122
6500
6000
5500
5000
4500
4000
3500

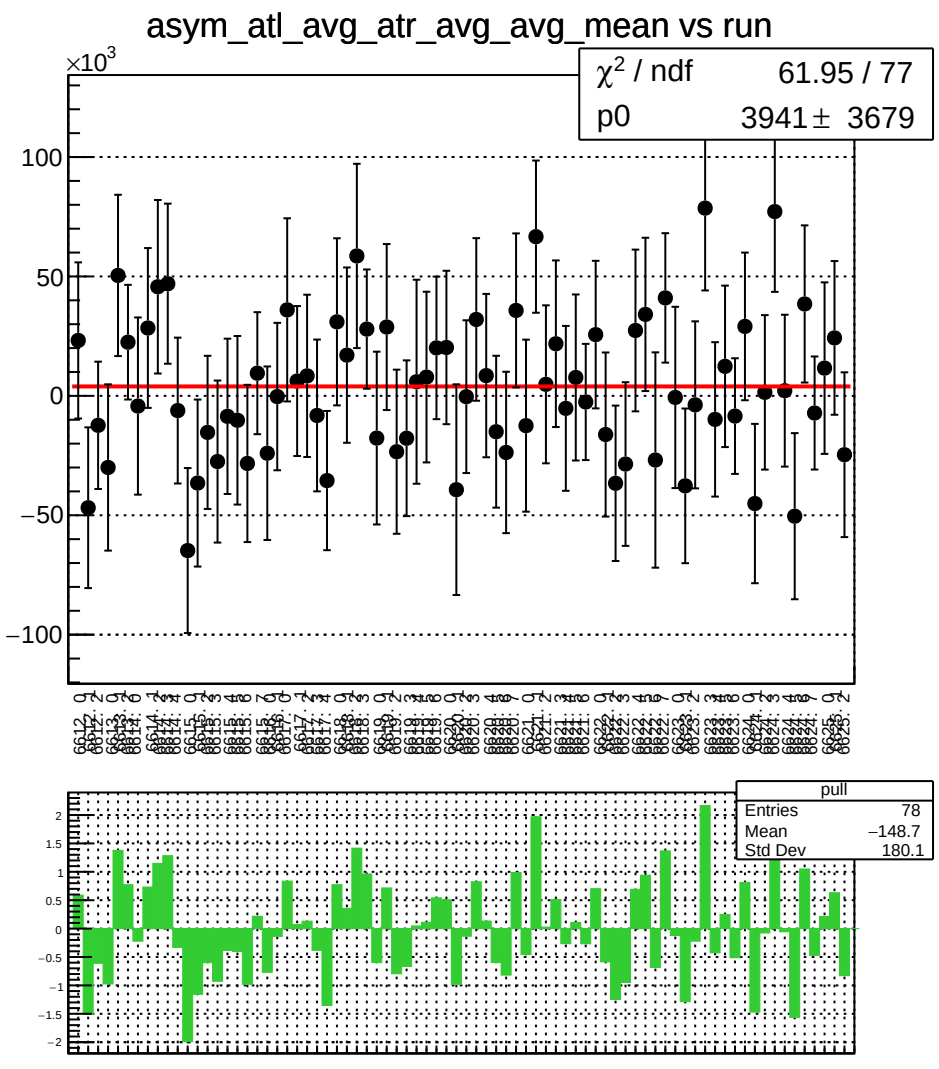

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 61.95 / 77
p0 3941 ± 3679
100
50
0
−50
−100
pull
Entries 78
Mean −148.7
Std Dev 180.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

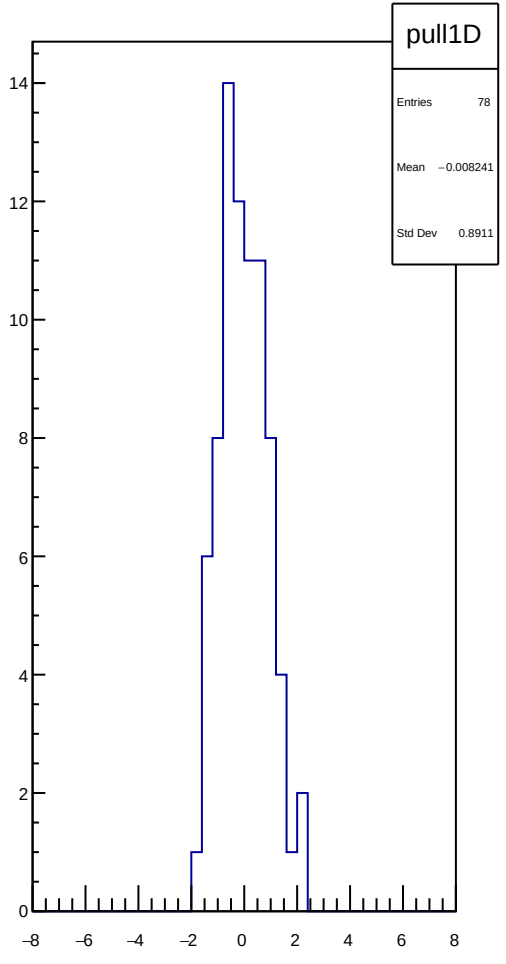

pull1D
Entries 78
Mean −0.008241
Std Dev 0.8911
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

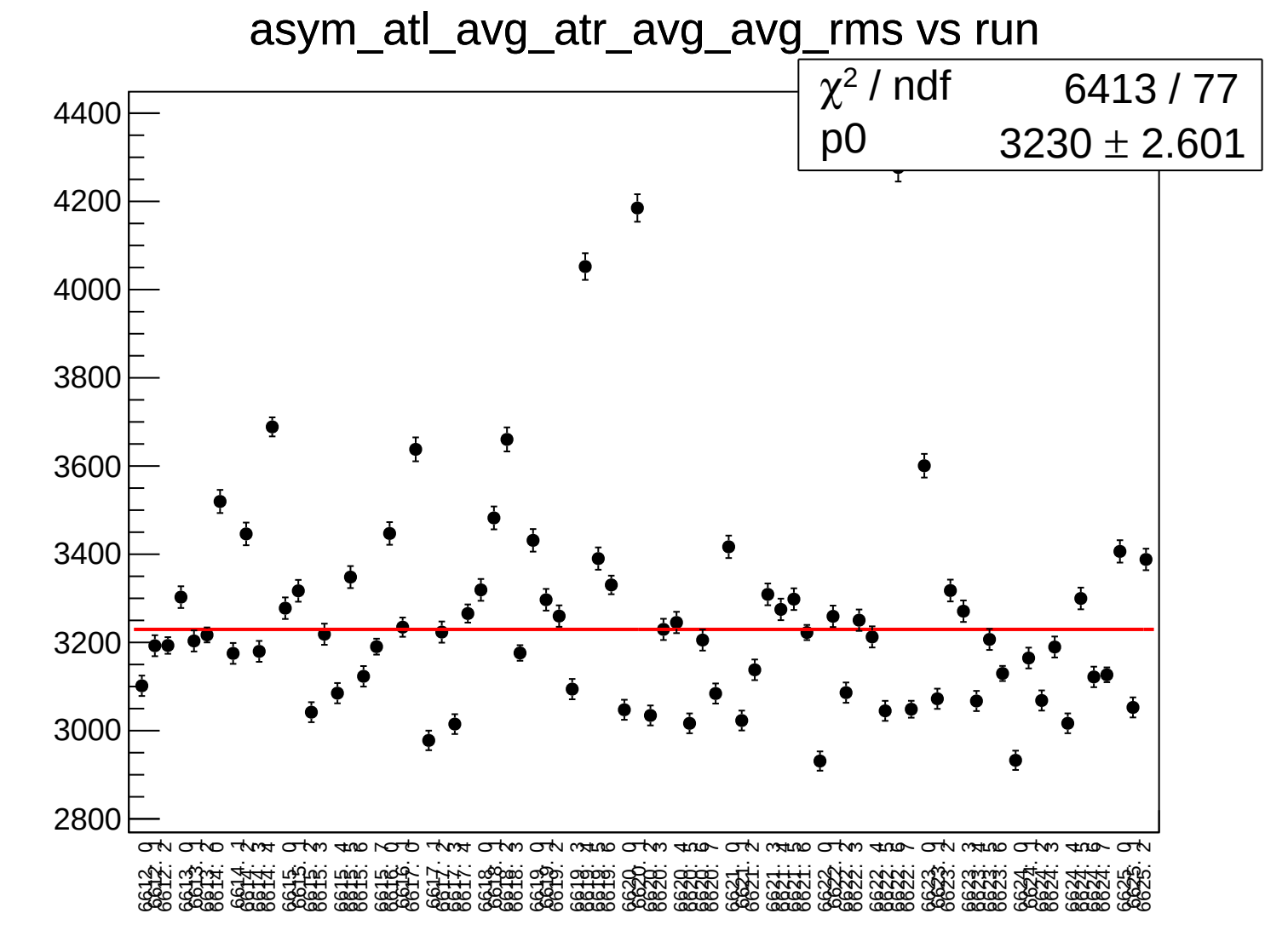

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6413 / 77
p0 3230 ± 2.601
4400
4200
4000
3800
3600
3400
3200
3000
2800

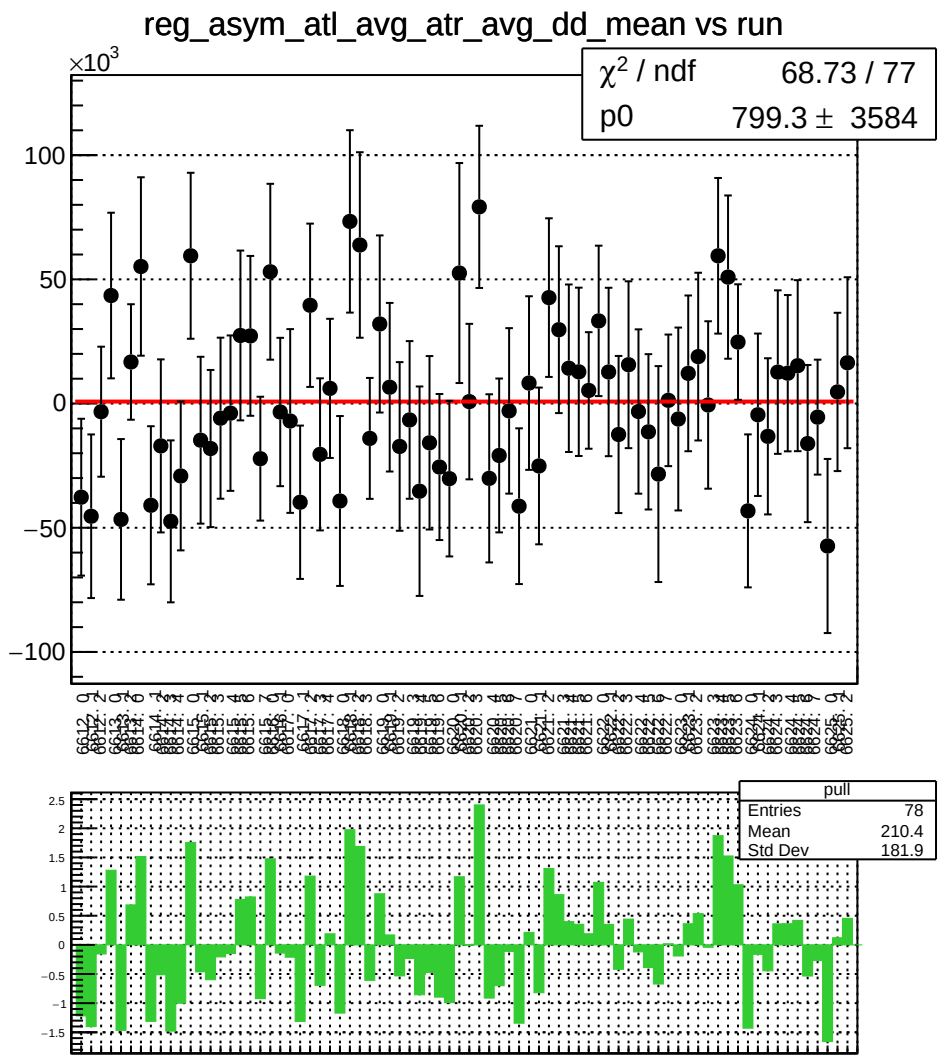

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

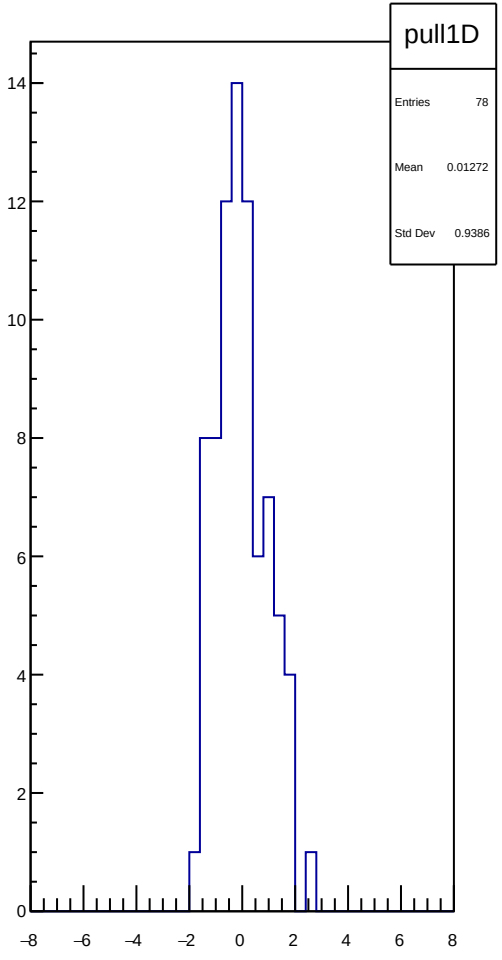

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

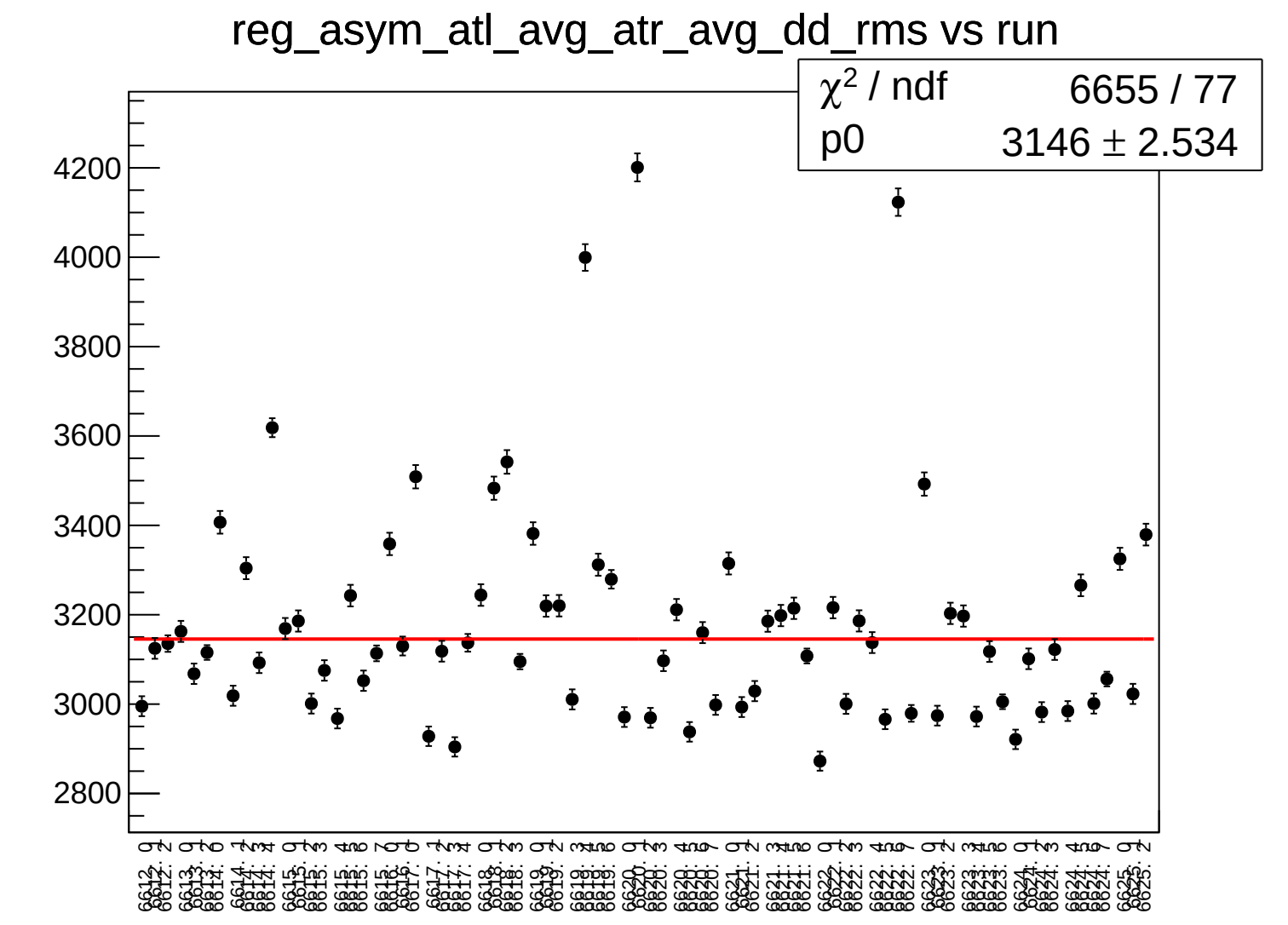

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 61.95 / 77
p0 3941 ± 3679
100
50
0
−50
−100
pull
Entries 78
Mean −148.7
Std Dev 180.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

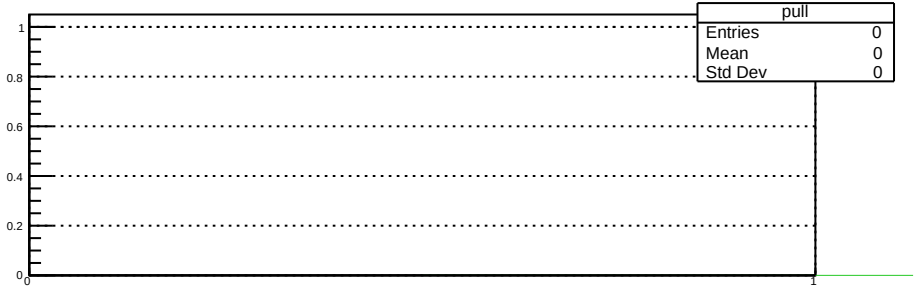

pull1D
Entries 78
Mean −0.008241
Std Dev 0.8911
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

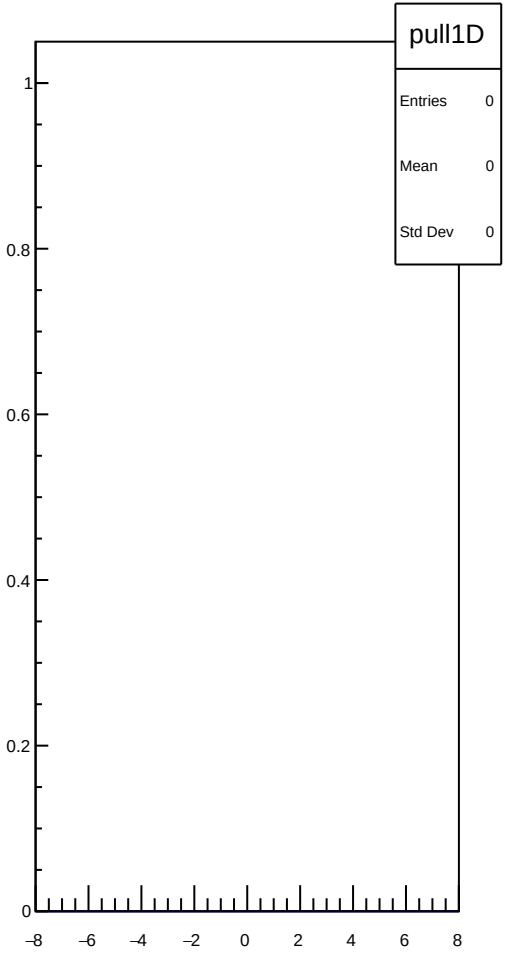

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6413 / 77
p0 3230 ± 2.601
4400
4200
4000
3800
3600
3400
3200
3000
2800

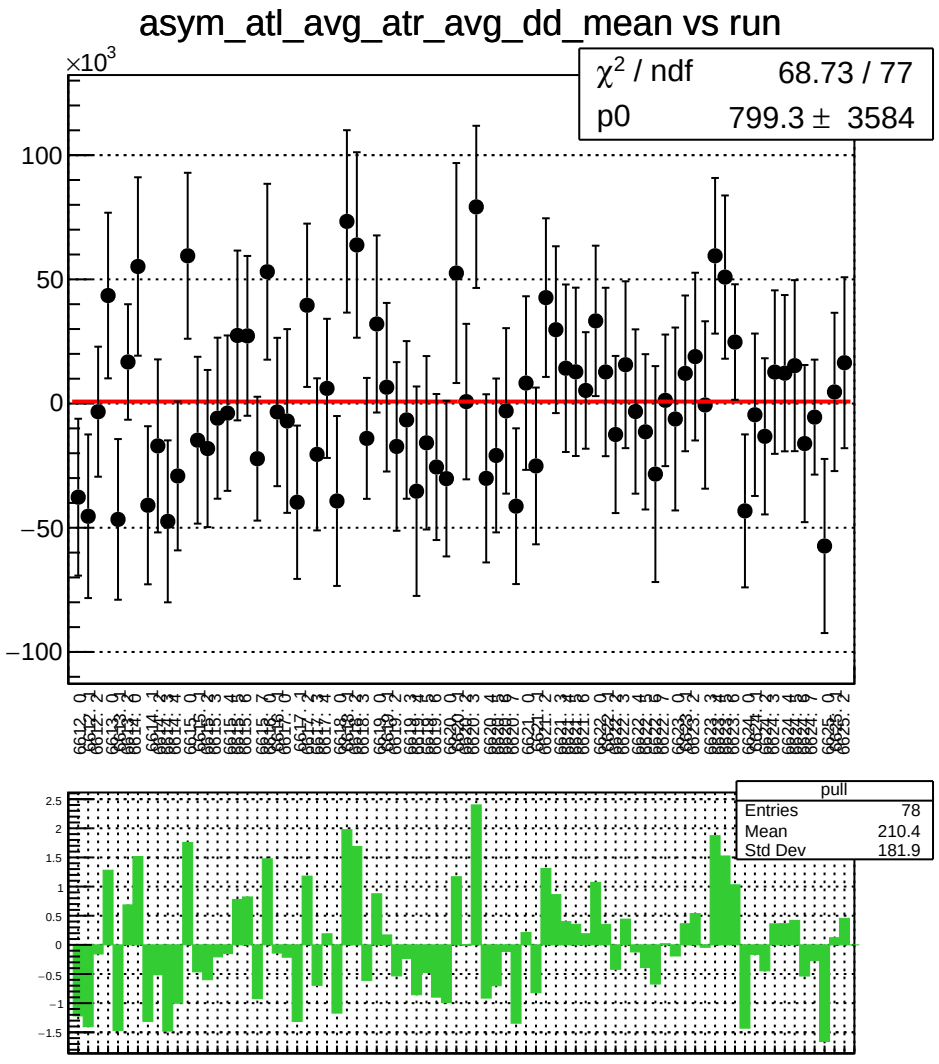

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 68.73 / 77
p0 799.3 ± 3584
100
50
0
−50
−100
pull
Entries 78
Mean 210.4
Std Dev 181.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

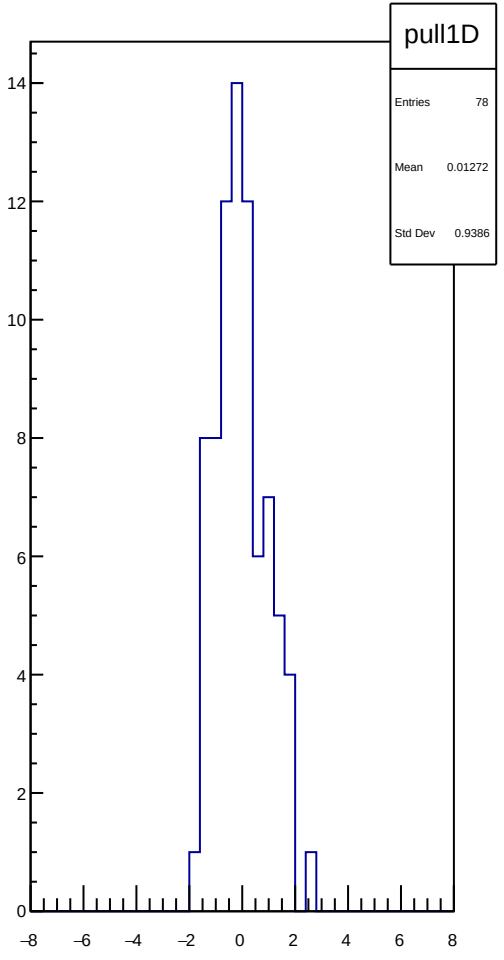

pull1D
Entries 78
Mean 0.01272
Std Dev 0.9386
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

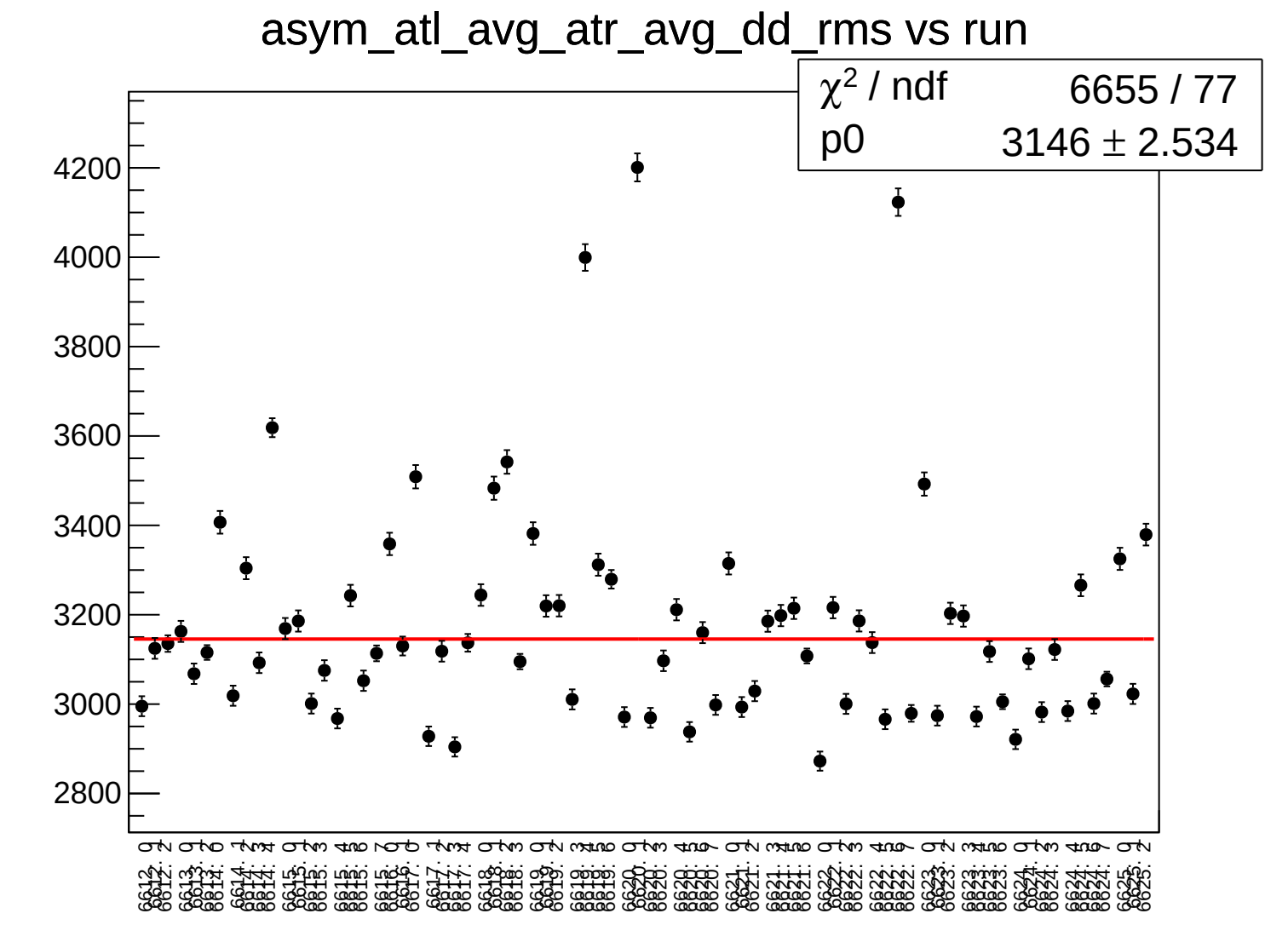

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6655 / 77
p0 3146 ± 2.534
4200
4000
3800
3600
3400
3200
3000
2800

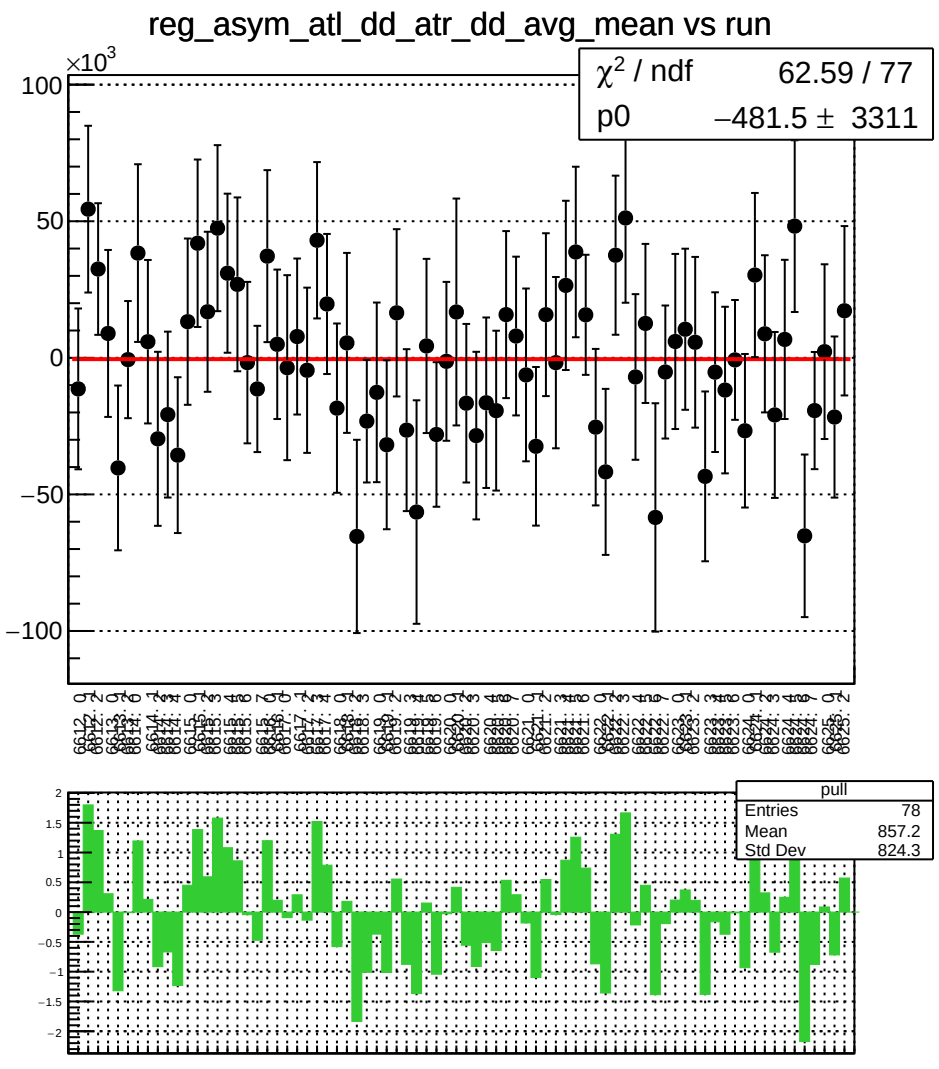

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

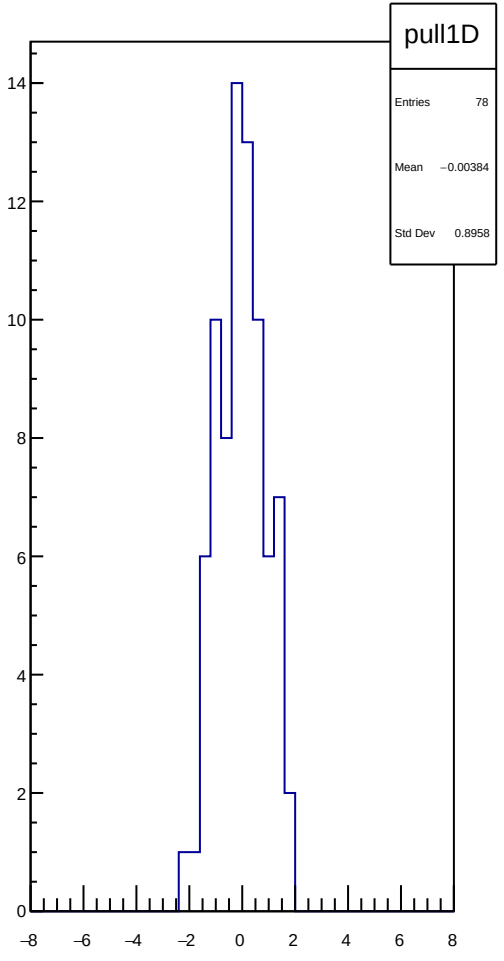

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

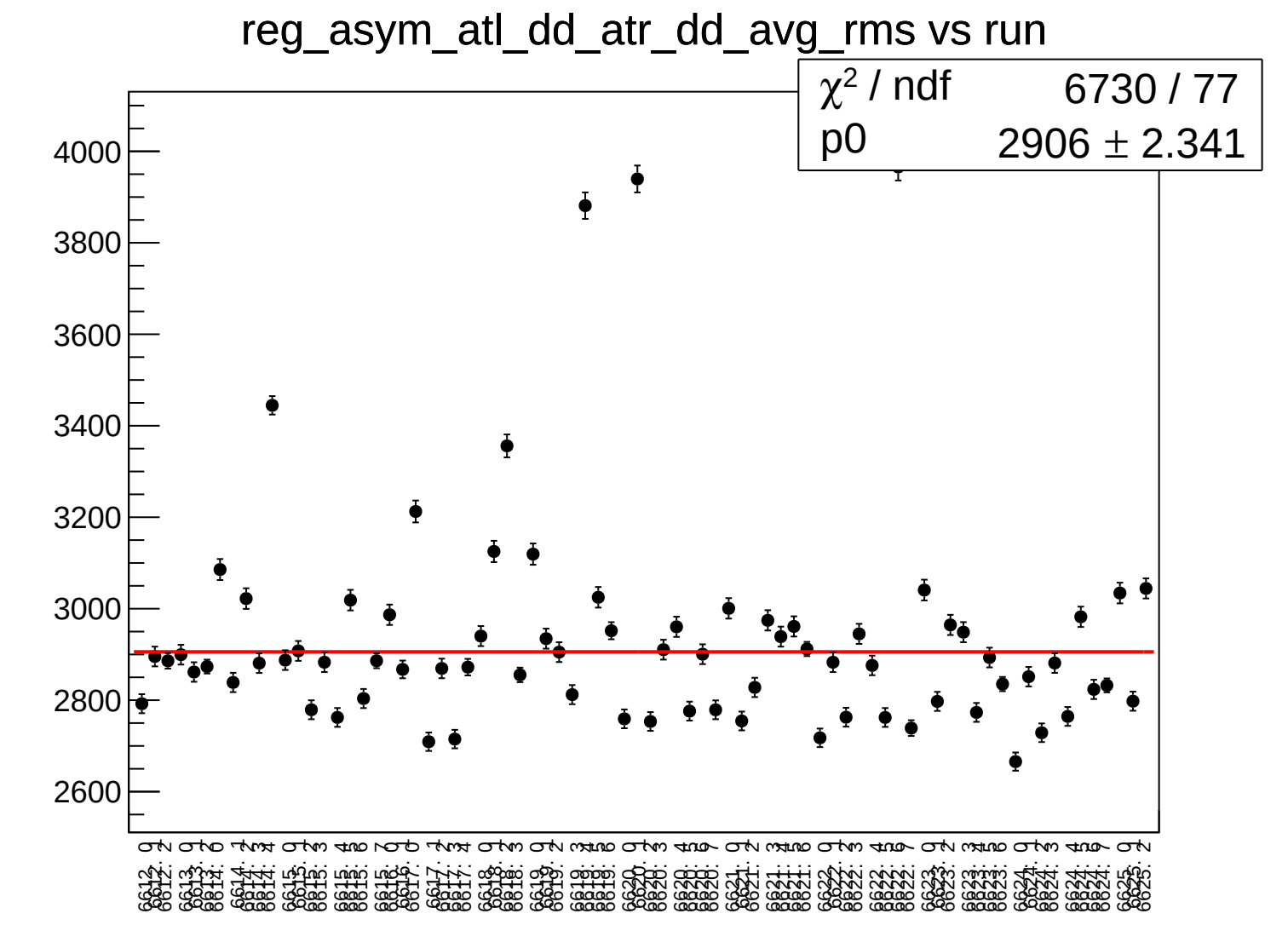

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 68.73 / 77
p0 799.3 ± 3584
100
50
0
−50
−100
pull
Entries 78
Mean 210.4
Std Dev 181.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

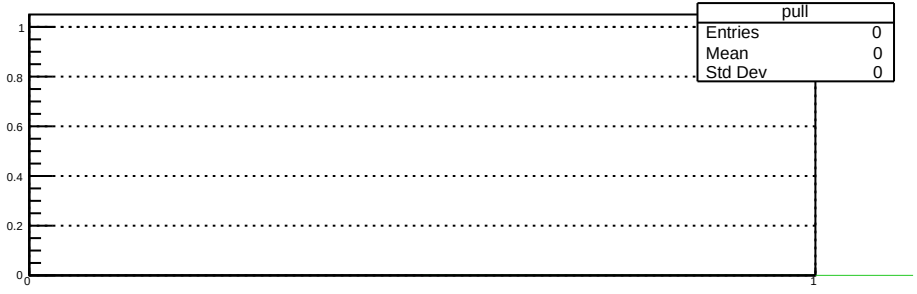

pull1D
Entries 78
Mean 0.01272
Std Dev 0.9386
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

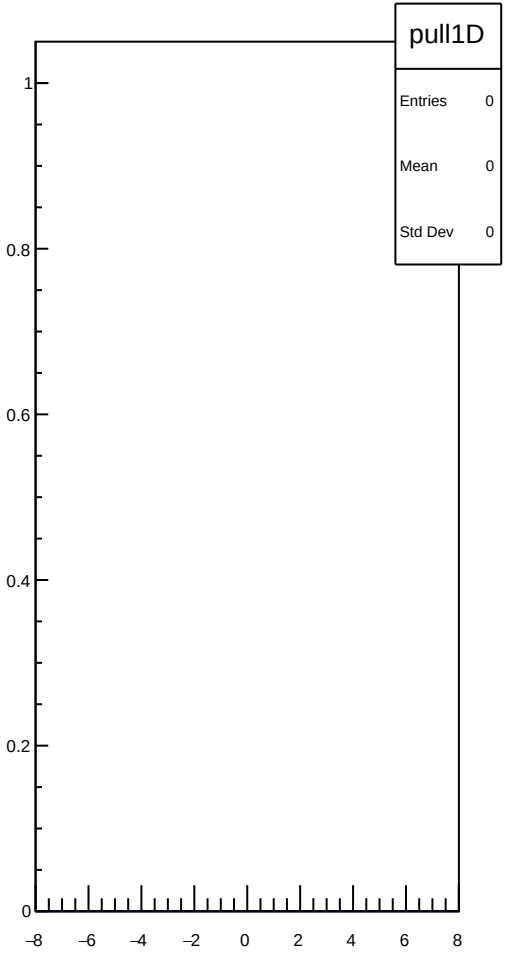

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6655 / 77
p0 3146 ± 2.534
4200
4000
3800
3600
3400
3200
3000
2800

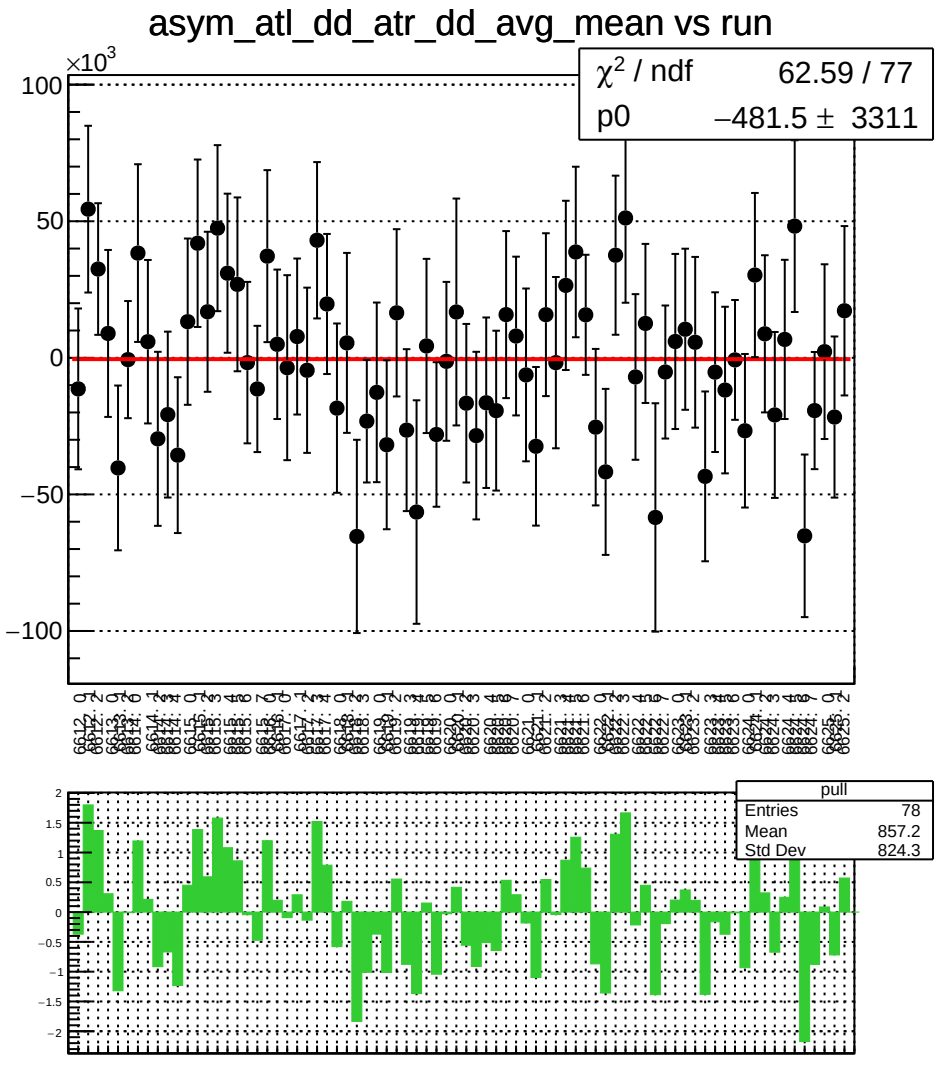

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 62.59 / 77
p0 −481.5 ± 3311
pull
Entries 78
Mean 857.2
Std Dev 824.3

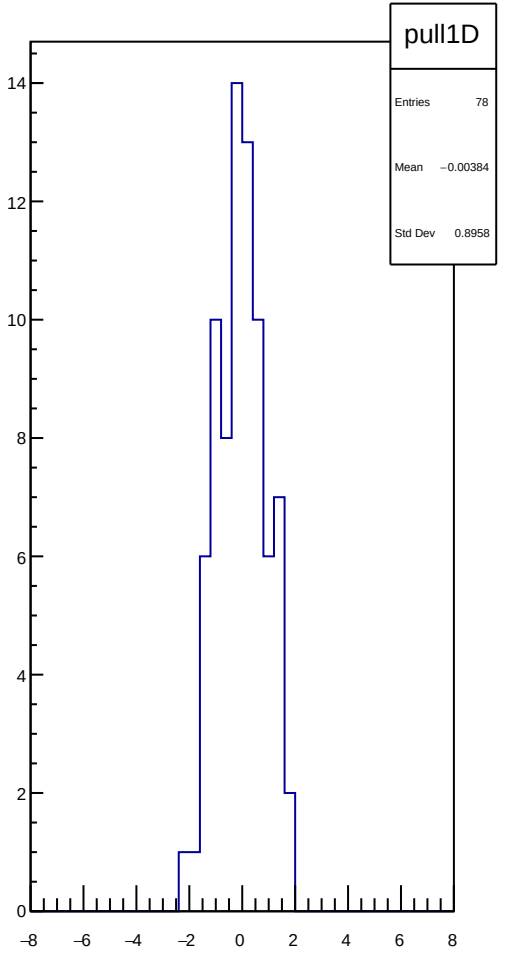

pull1D
Entries 78
Mean −0.00384
Std Dev 0.8958

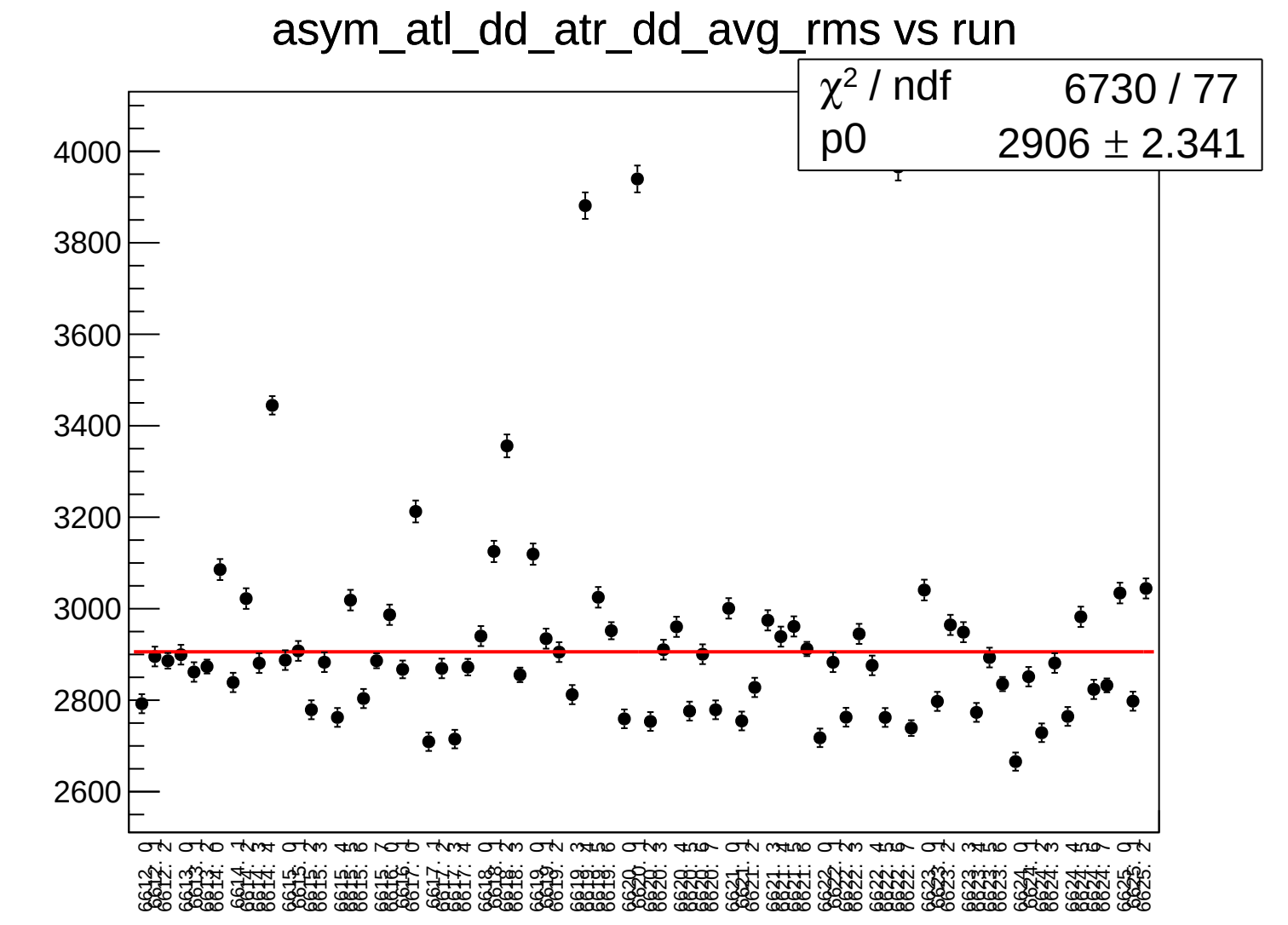

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 6730 / 77
p0 2906 ± 2.341
4000
3800
3600
3400
3200
3000
2800
2600

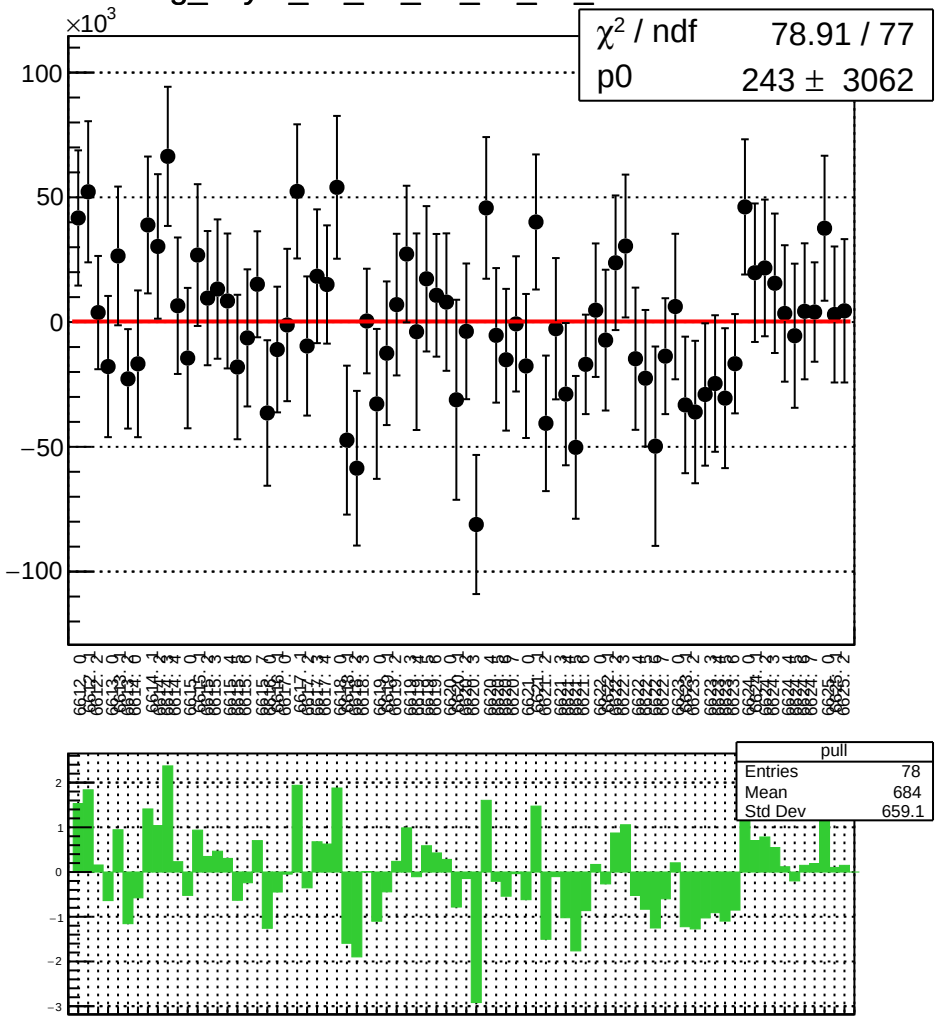

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

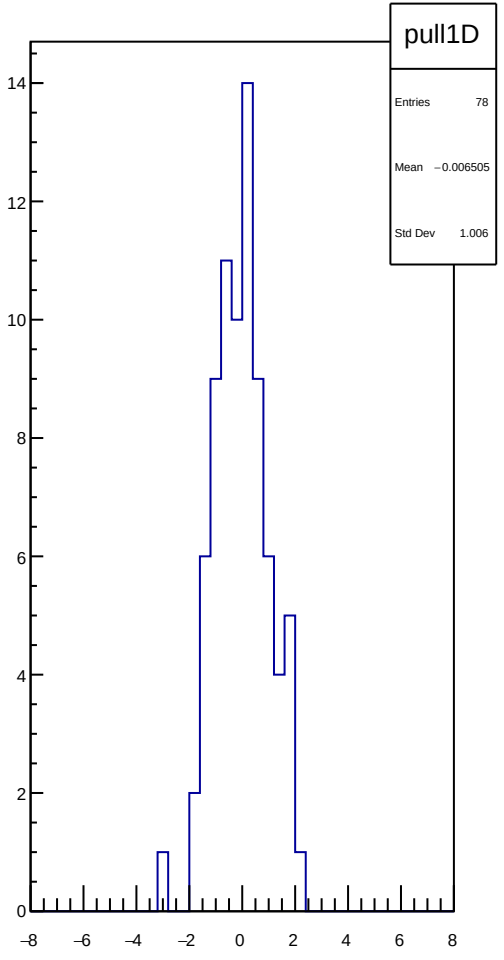

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

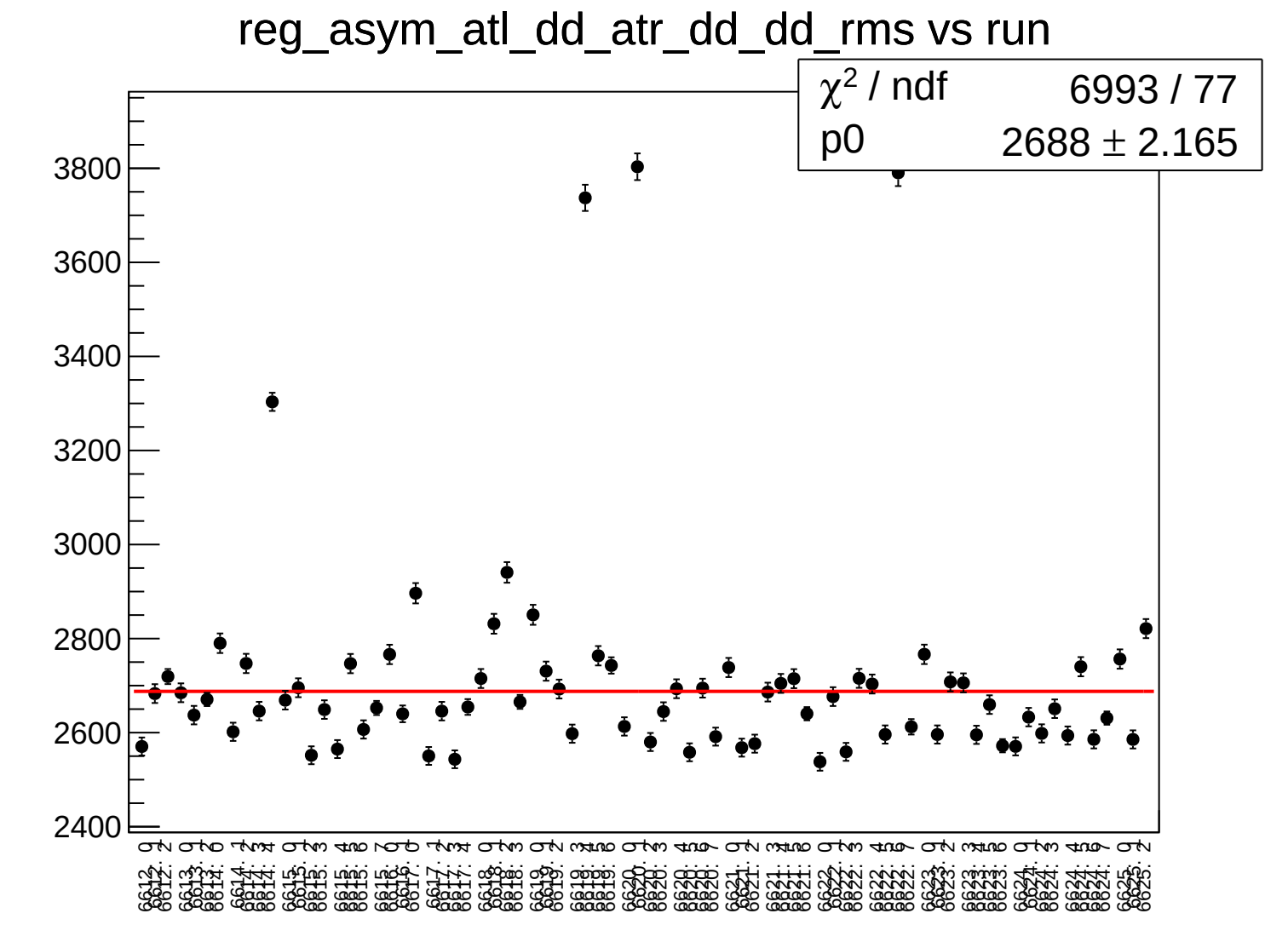

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 62.59 / 77
p0 −481.5 ± 3311
100
50
0
−50
−100
pull
Entries 78
Mean 857.2
Std Dev 824.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

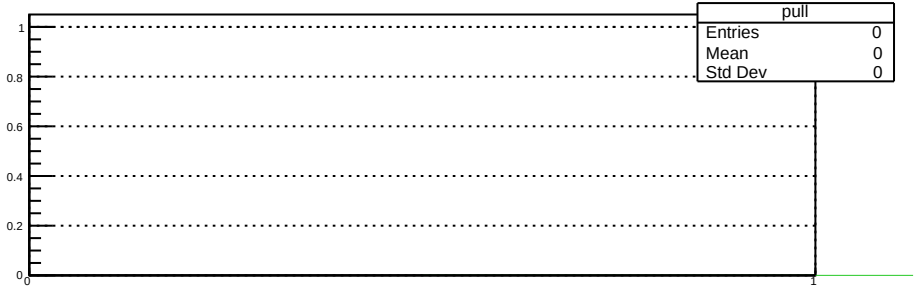

pull1D
Entries 78
Mean −0.00384
Std Dev 0.8958
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

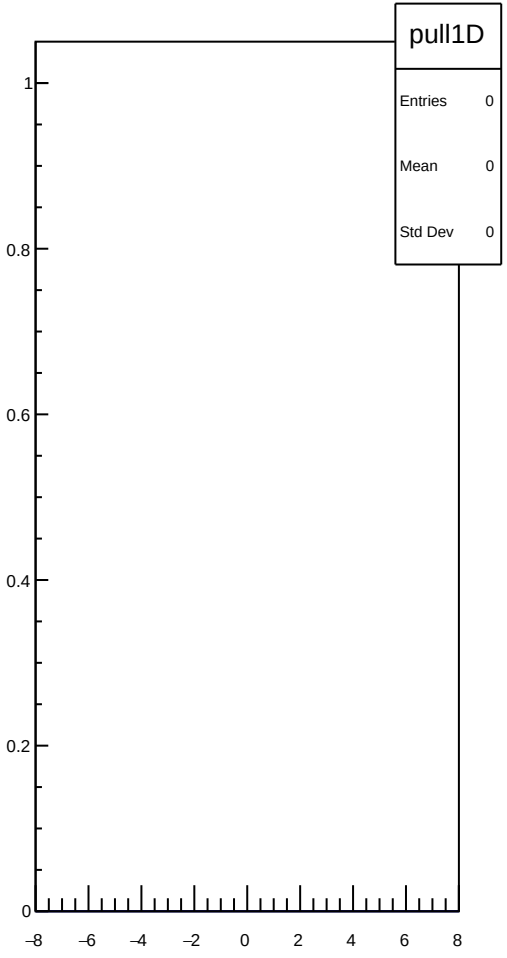

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 6730 / 77
p0 2906 ± 2.341
4000
3800
3600
3400
3200
3000
2800
2600

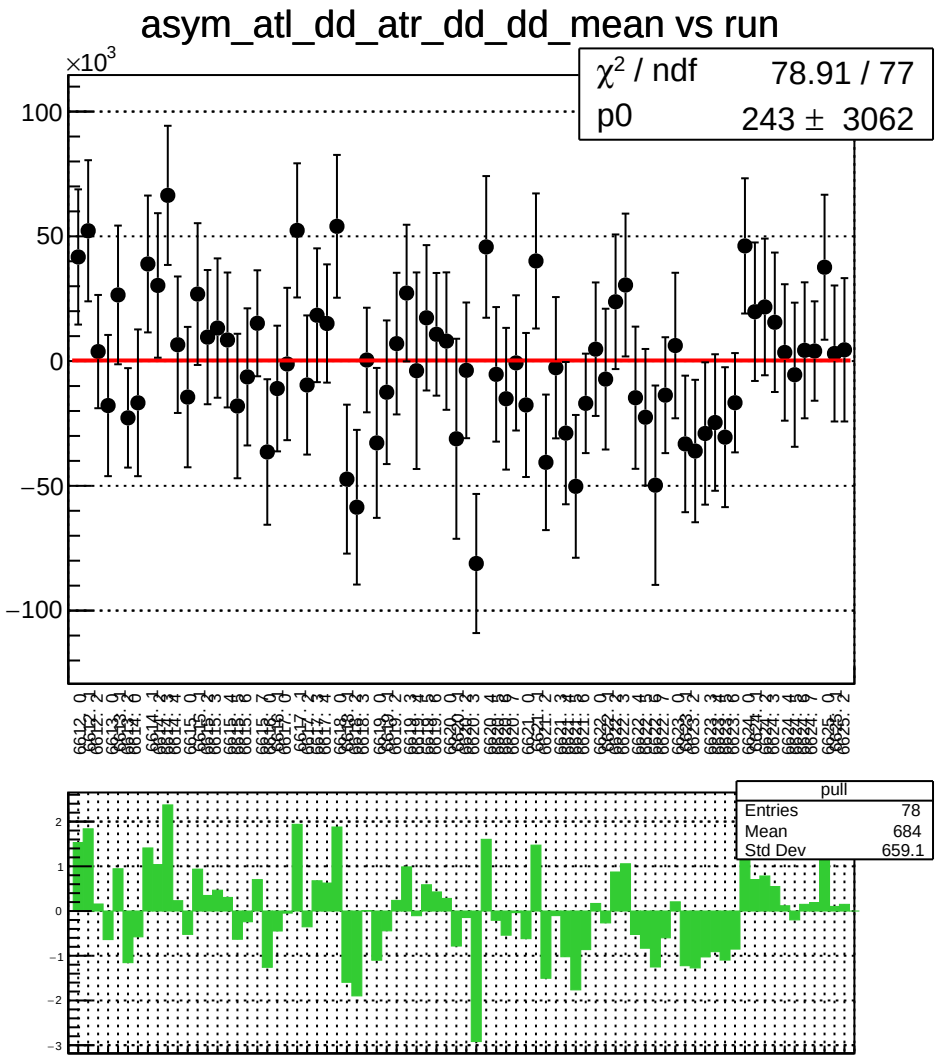

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 78.91 / 77
p0 243 ± 3062
pull
Entries 78
Mean 684
Std Dev 659.1

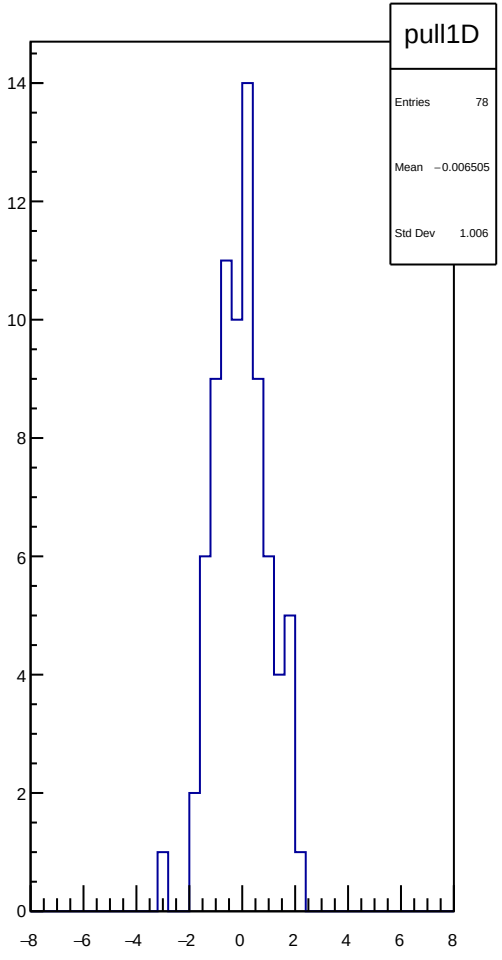

pull1D
Entries 78
Mean −0.006505
Std Dev 1.006

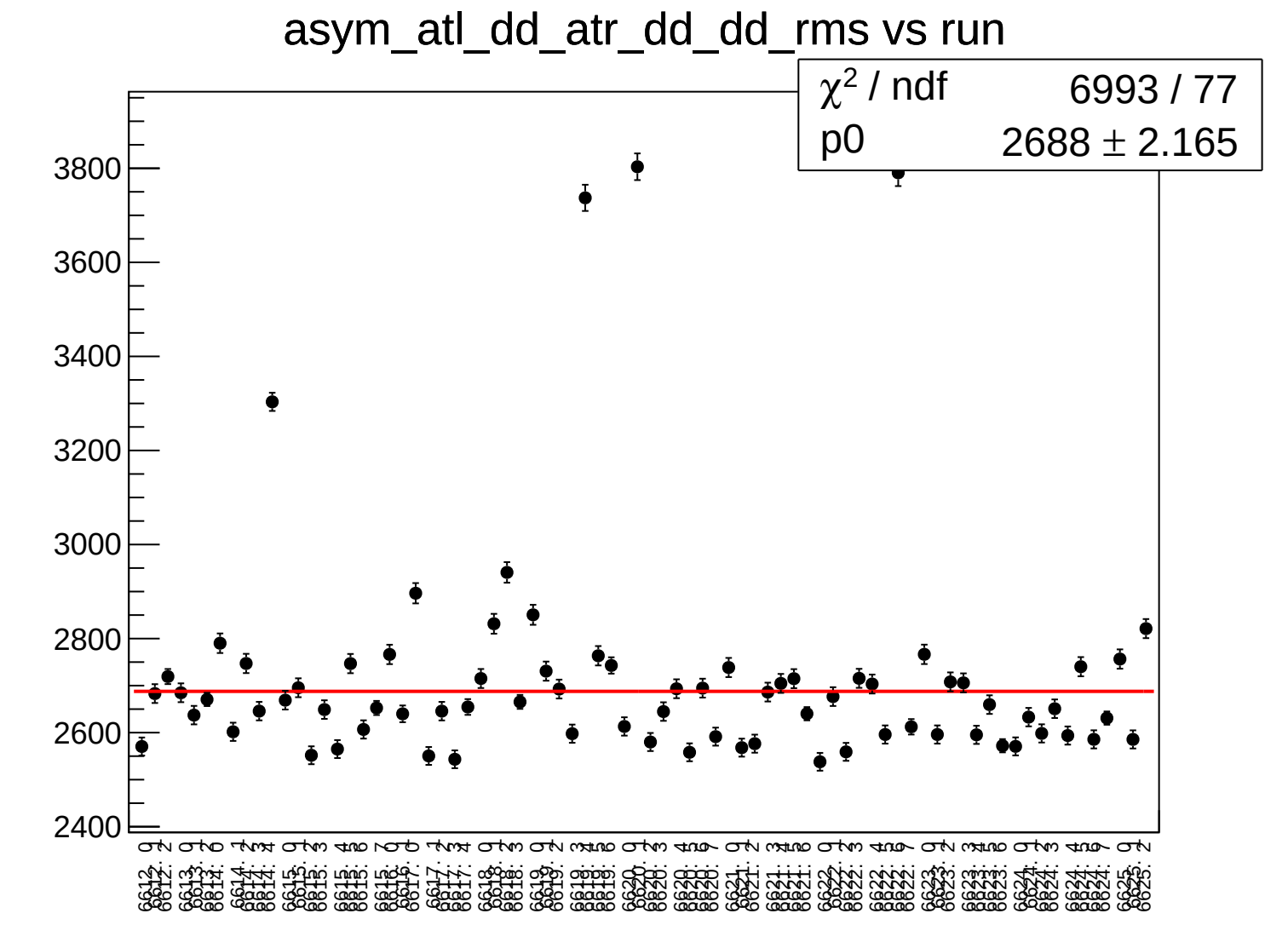

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 6993 / 77
p0 2688 ± 2.165
3800
3600
3400
3200
3000
2800
2600
2400

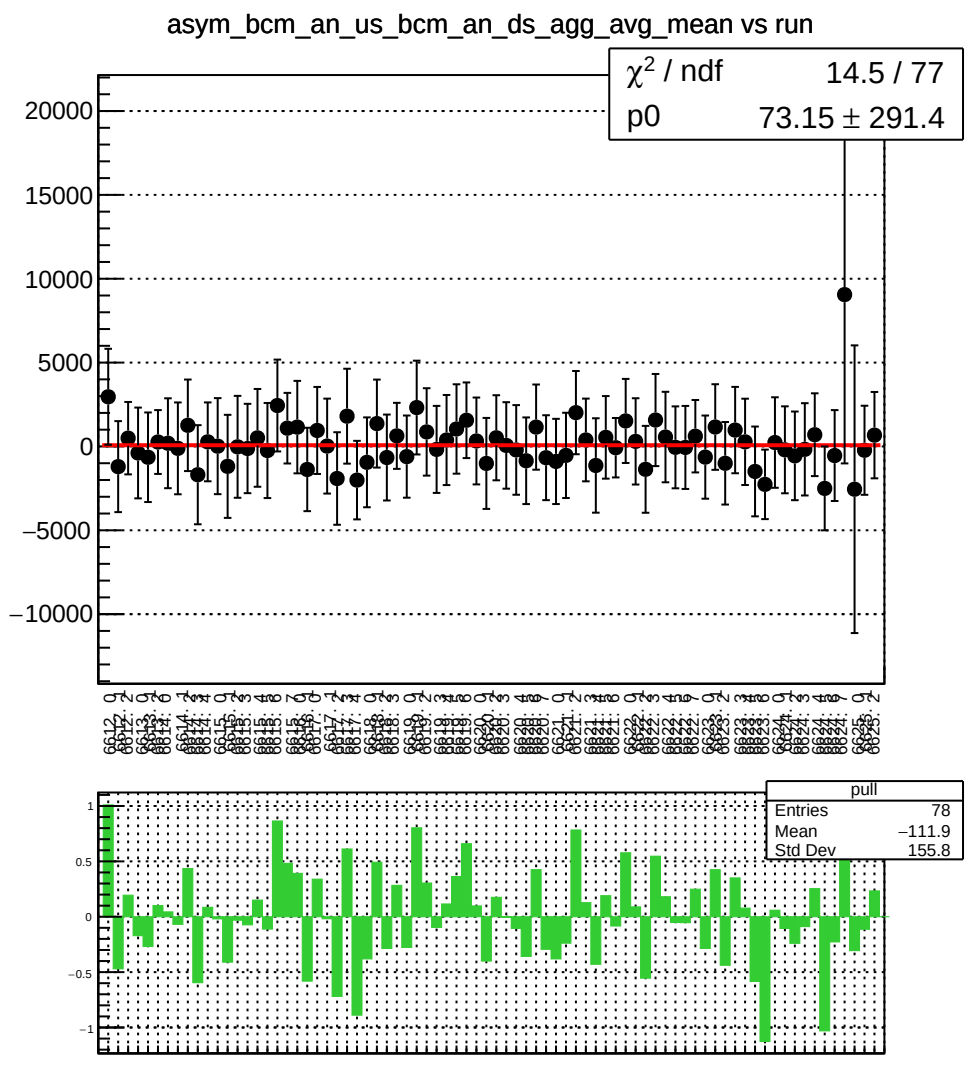

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

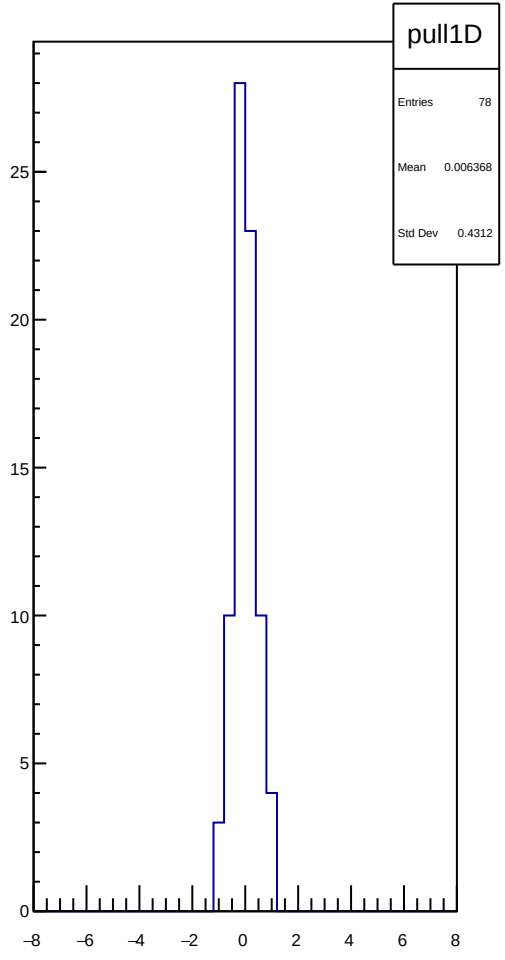

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

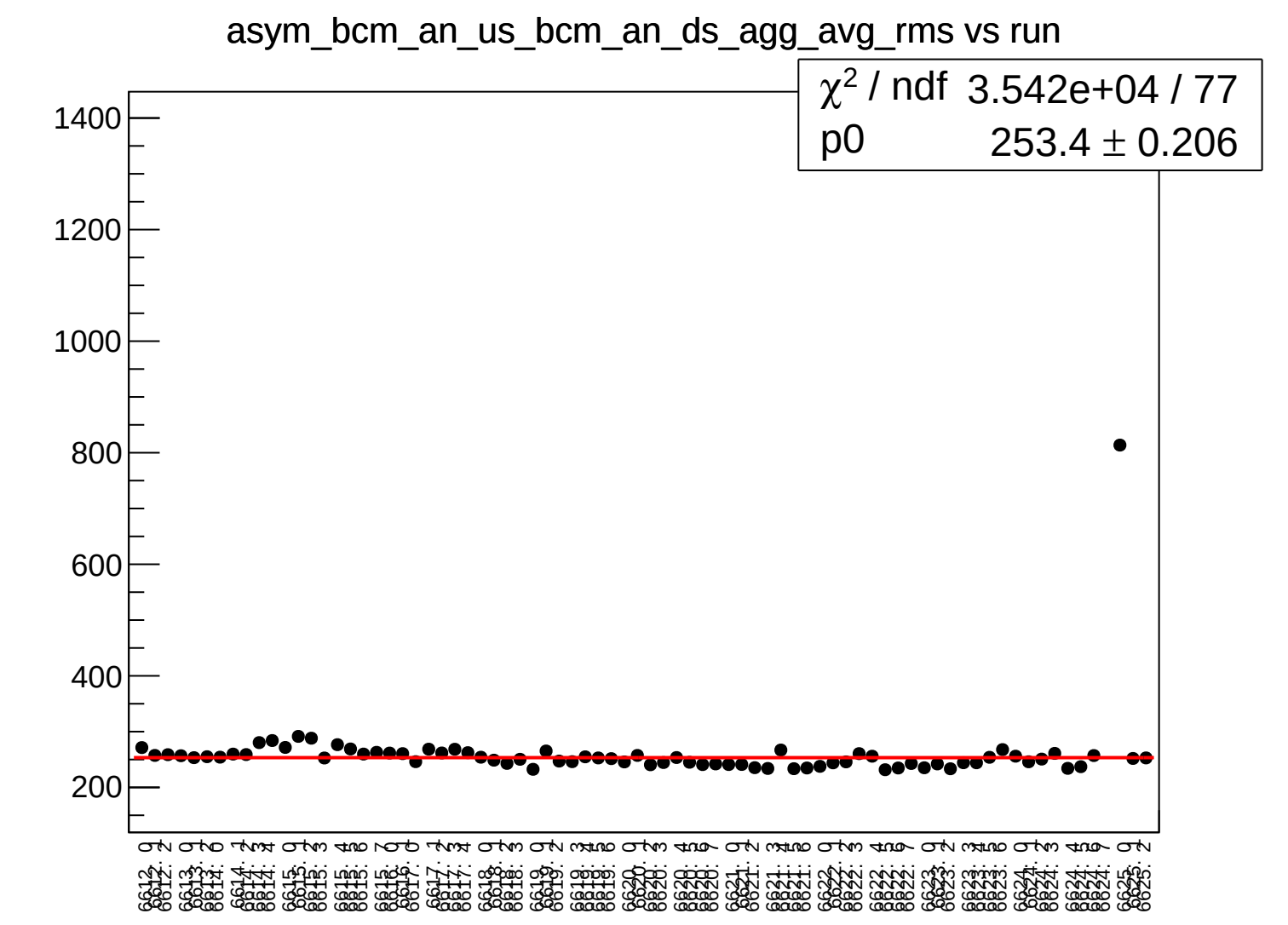

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 78.91 / 77
p0 243 ± 3062
pull
Entries 78
Mean 684
Std Dev 659.1

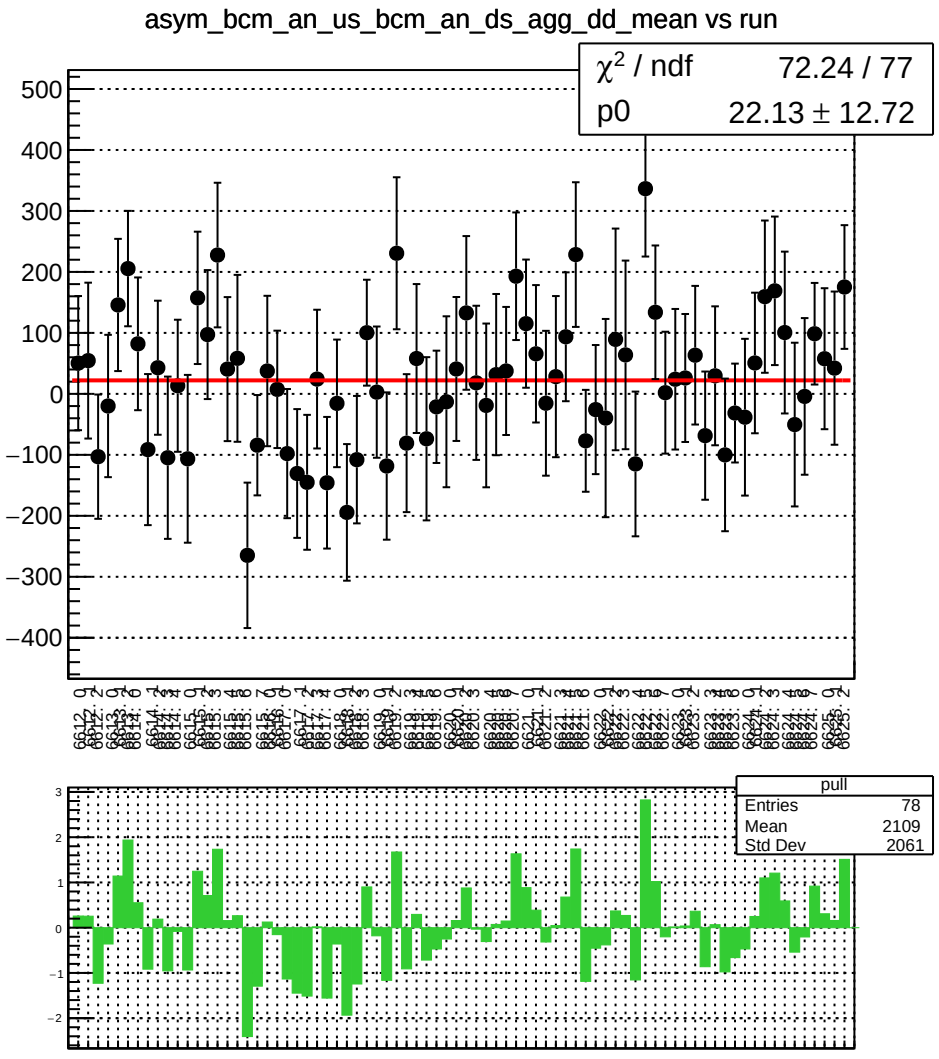

pull1D
Entries 78
Mean −0.006505
Std Dev 1.006

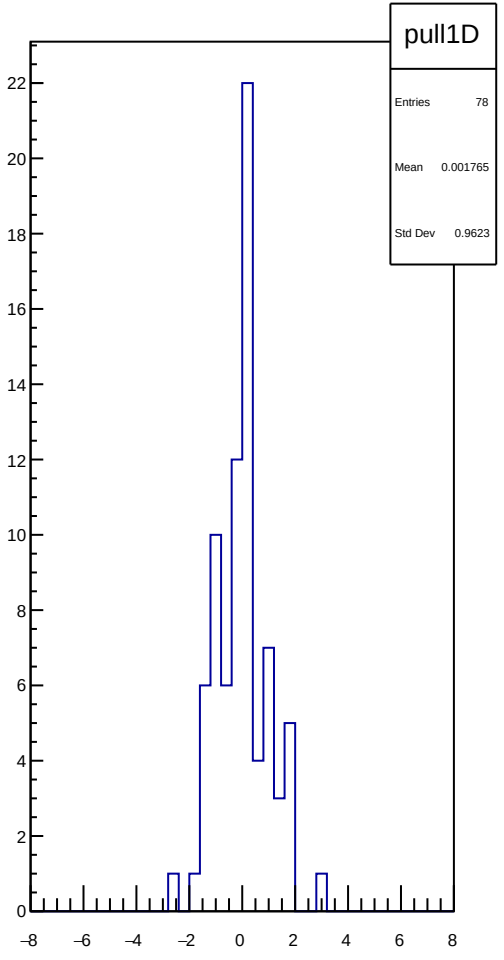

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 6993 / 77
p0 2688 ± 2.165
3800
3600
3400
3200
3000
2800
2600
2400

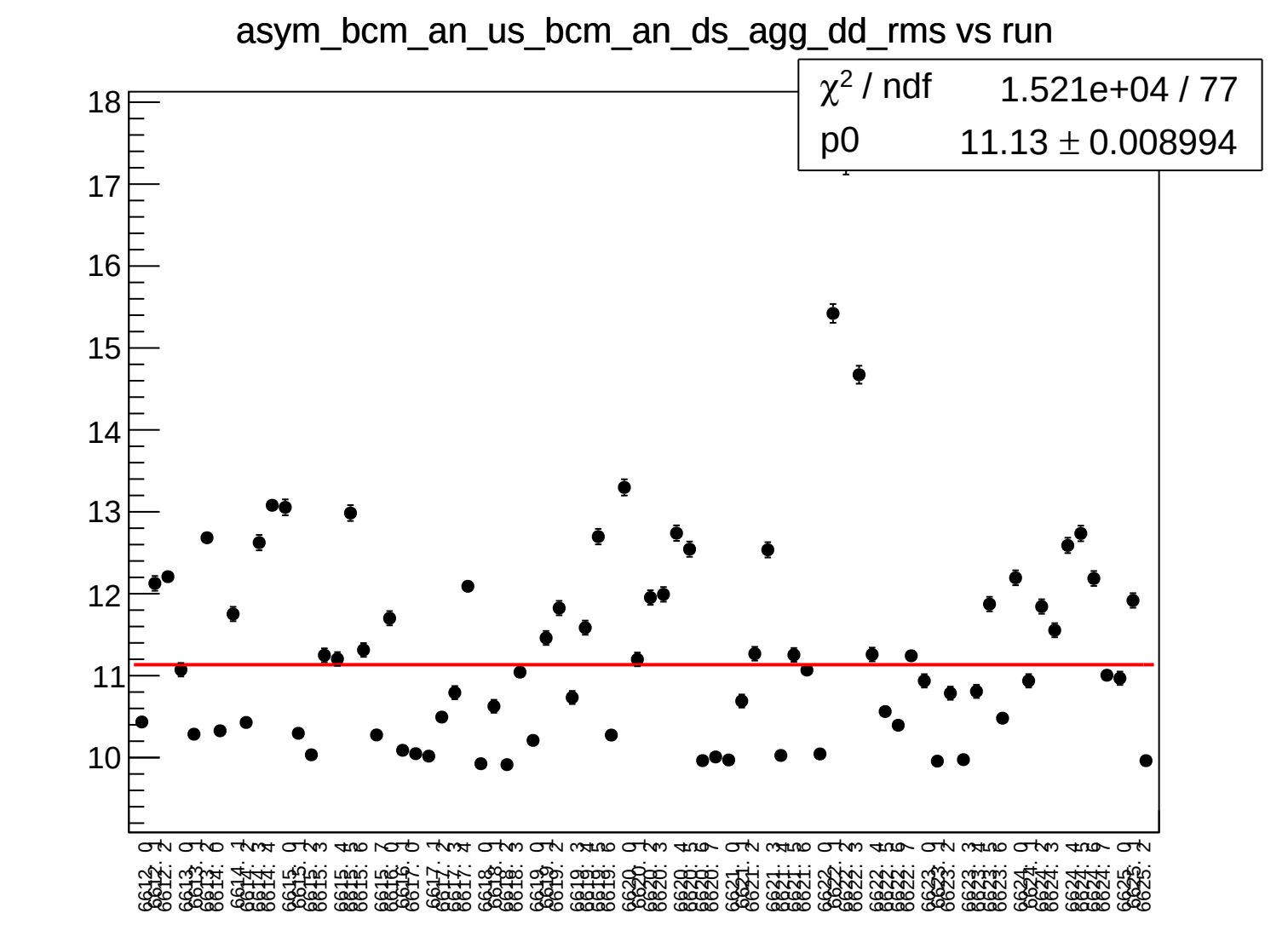

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.5 / 77
p0 73.15 ± 291.4
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −111.9
Std Dev 155.8
1
0.5
0
−0.5
−1

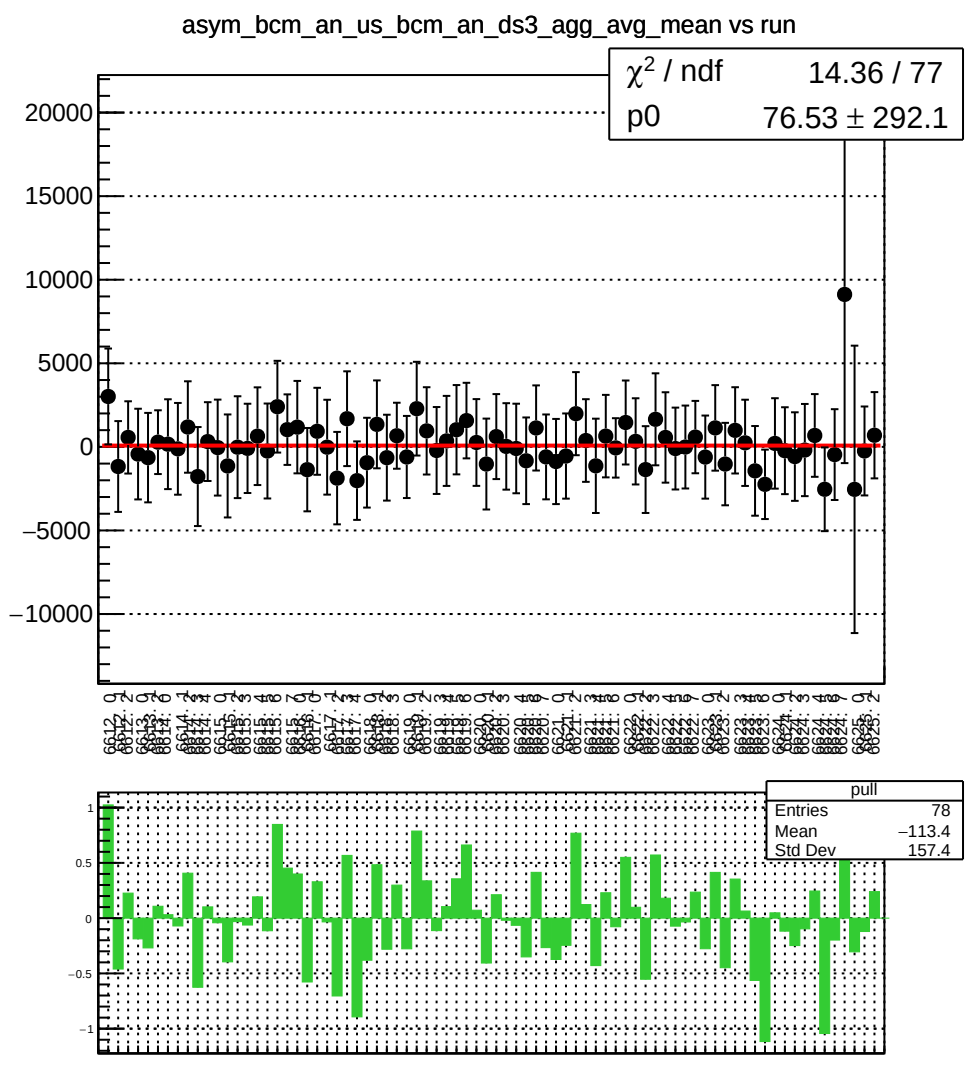

pull1D
Entries 78
Mean 0.006368
Std Dev 0.4312
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

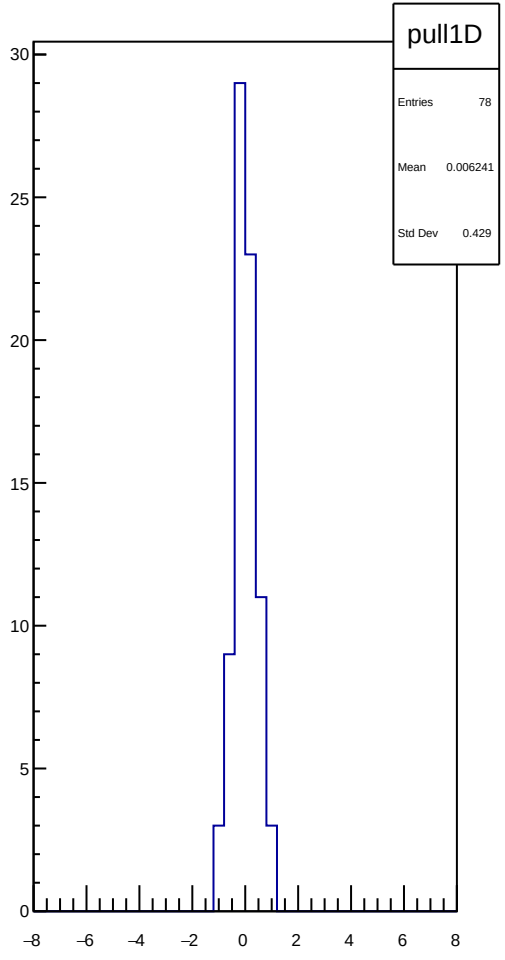

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.542e+04 / 77
p0 253.4 ± 0.206
1400
1200
1000
800
600
400
200

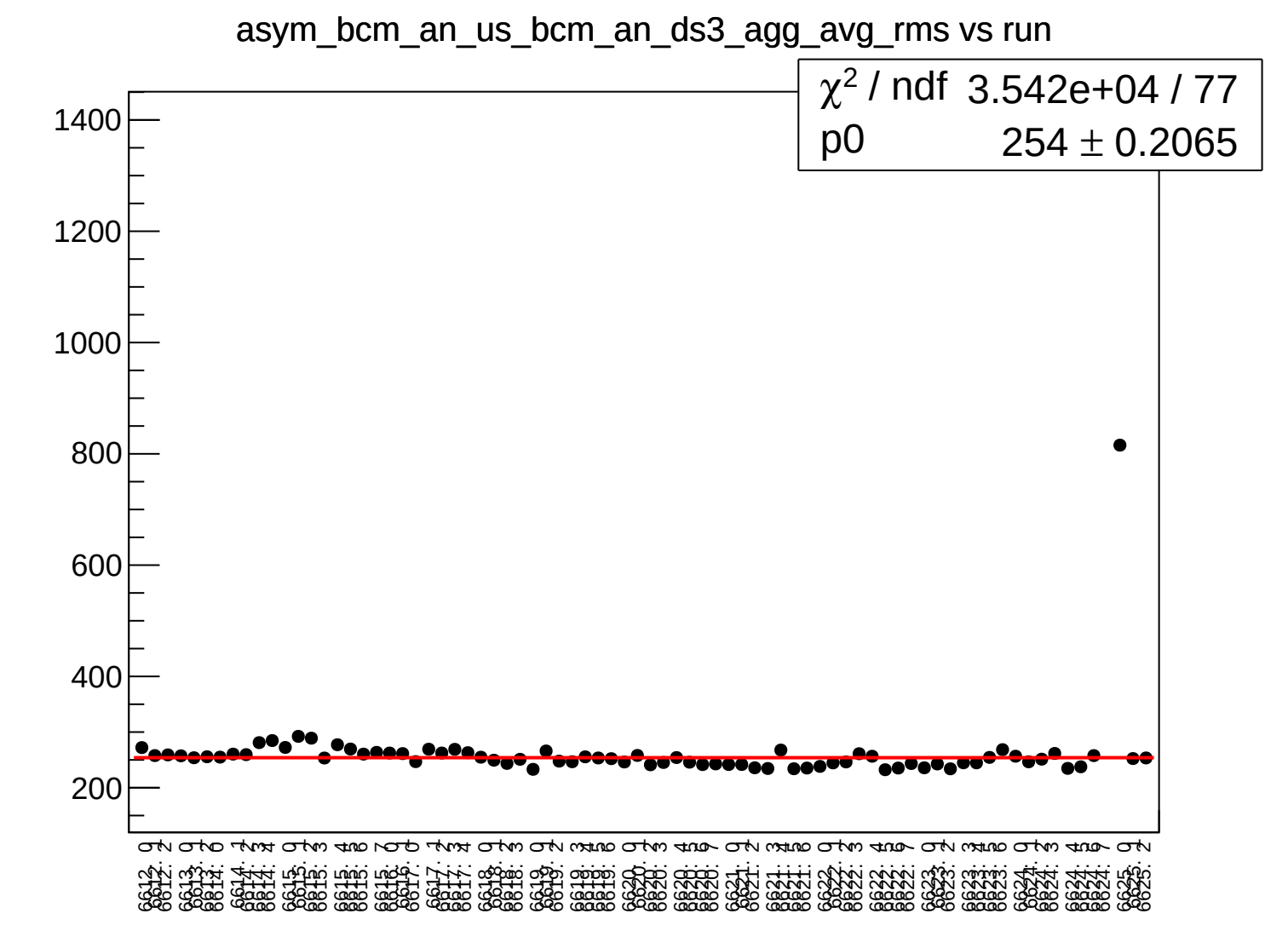

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 72.24 / 77
p0 22.13 ± 12.72
pull
Entries 78
Mean 2109
Std Dev 2061

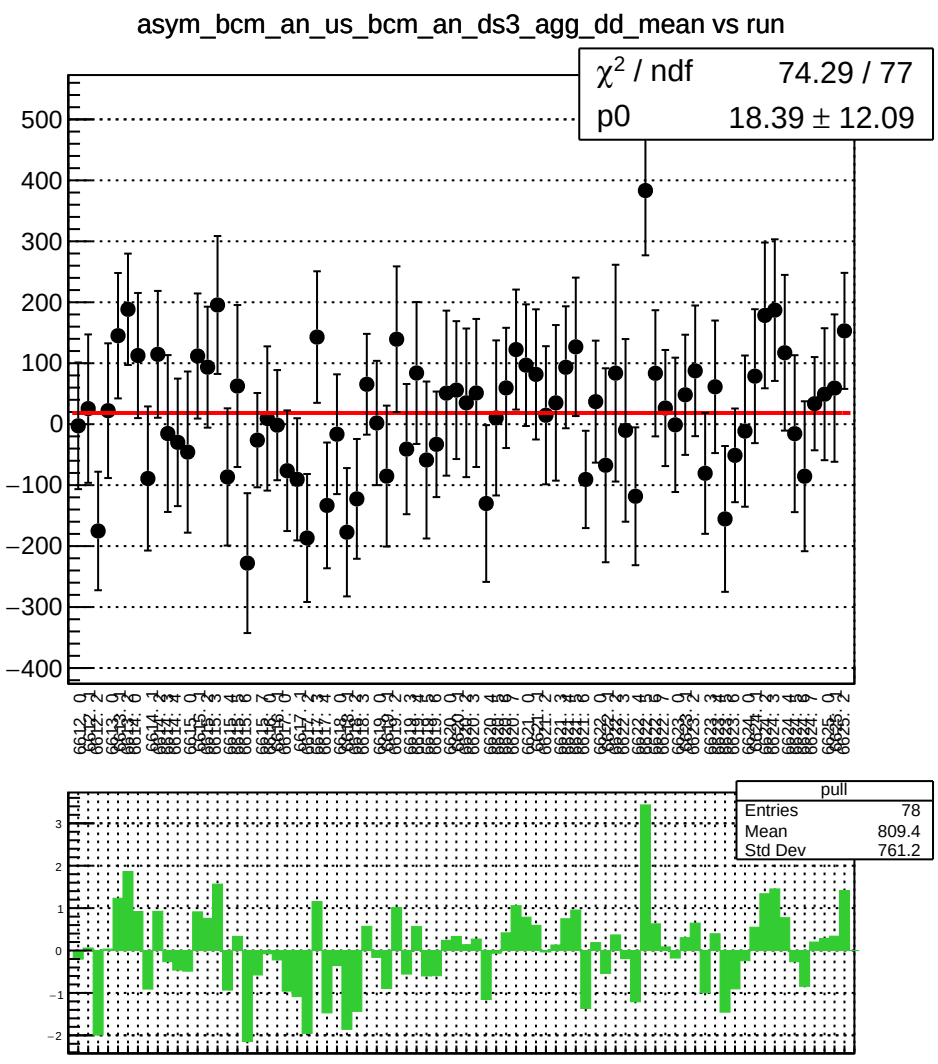

pull1D
Entries 78
Mean 0.001765
Std Dev 0.9623

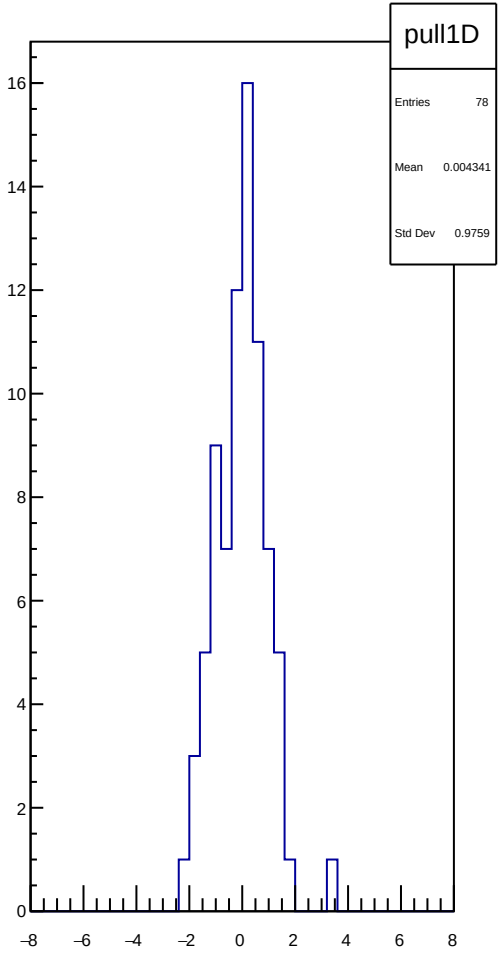

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.521e+04 / 77
p0 11.13 ± 0.008994
18
17
16
15
14
13
12
11
10

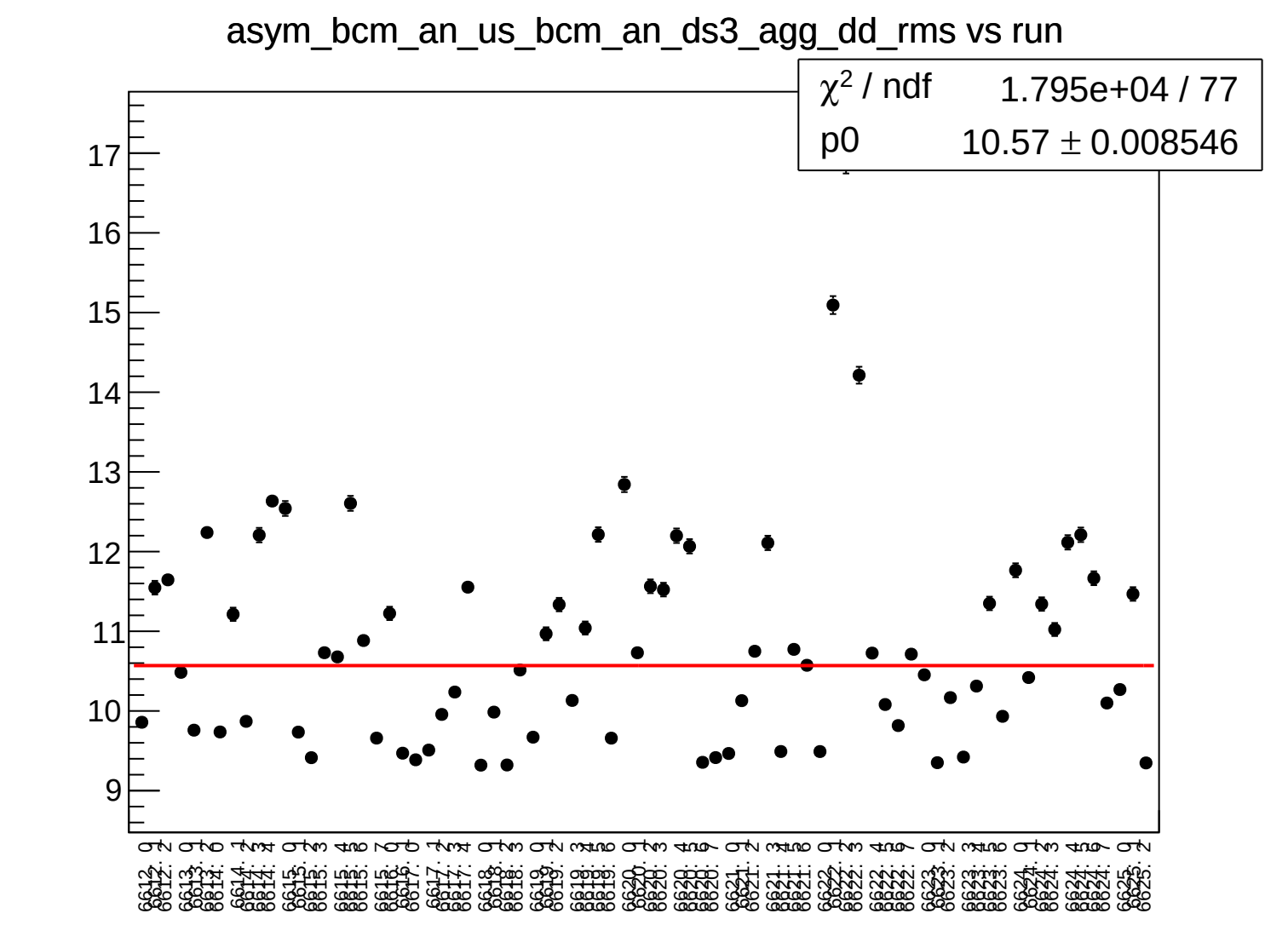

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.36 / 77
p0 76.53 ± 292.1
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −113.4
Std Dev 157.4
1
0.5
0
−0.5
−1

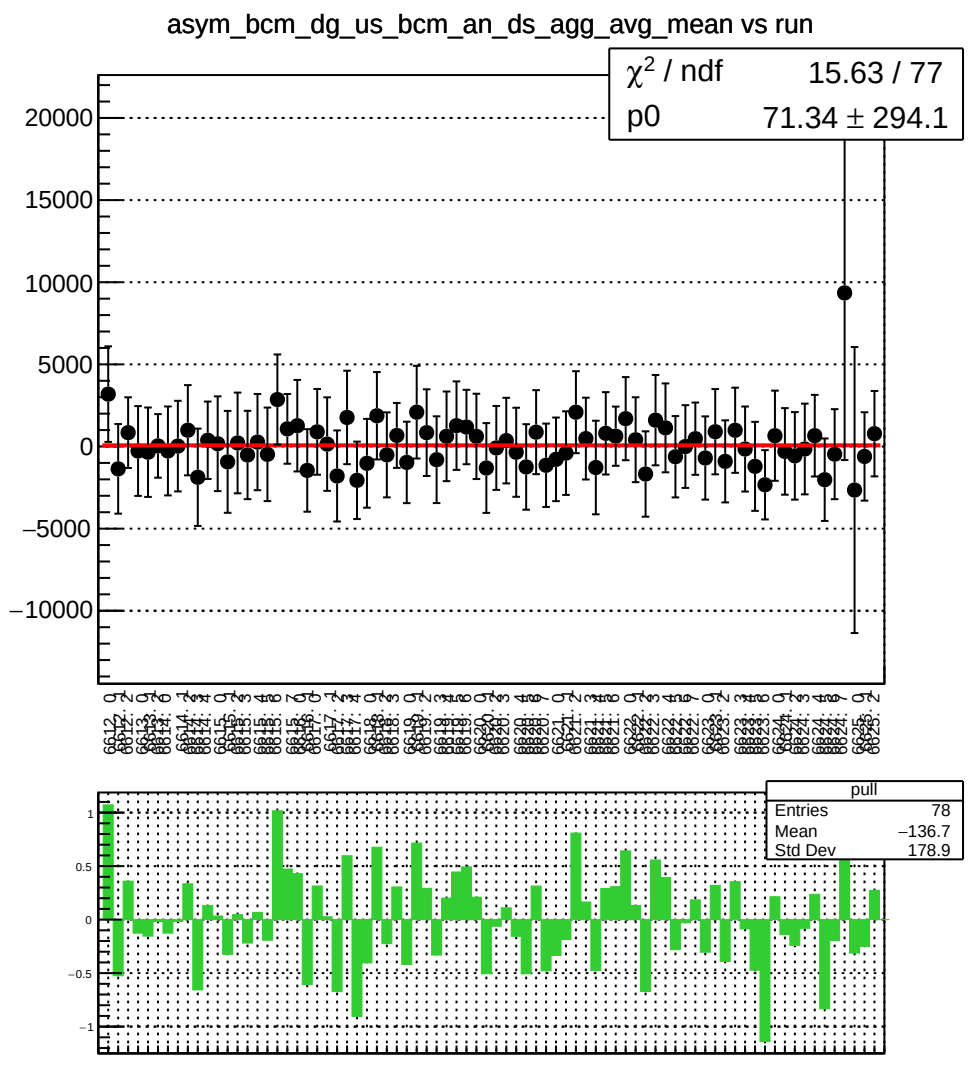

pull1D
Entries 78
Mean 0.006241
Std Dev 0.429
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

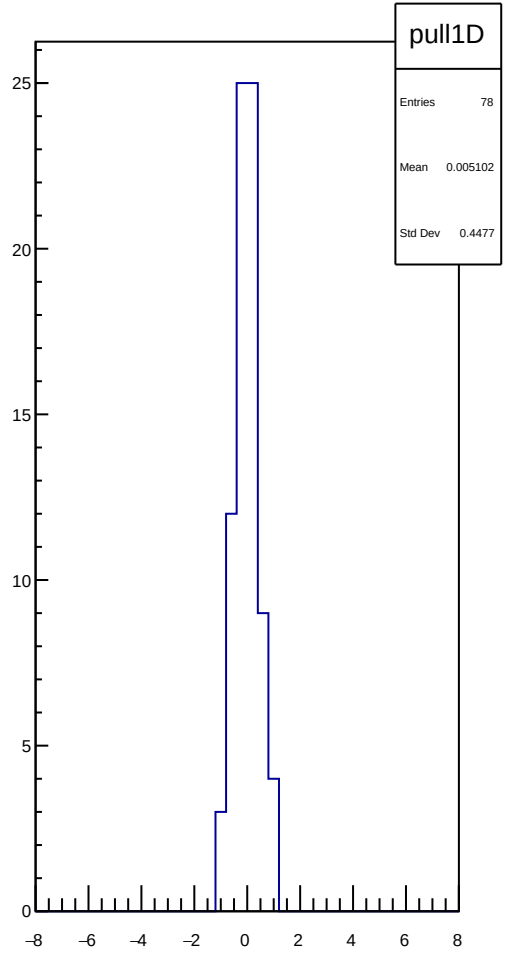

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.542e+04 / 77
p0 254 ± 0.2065
1400
1200
1000
800
600
400
200

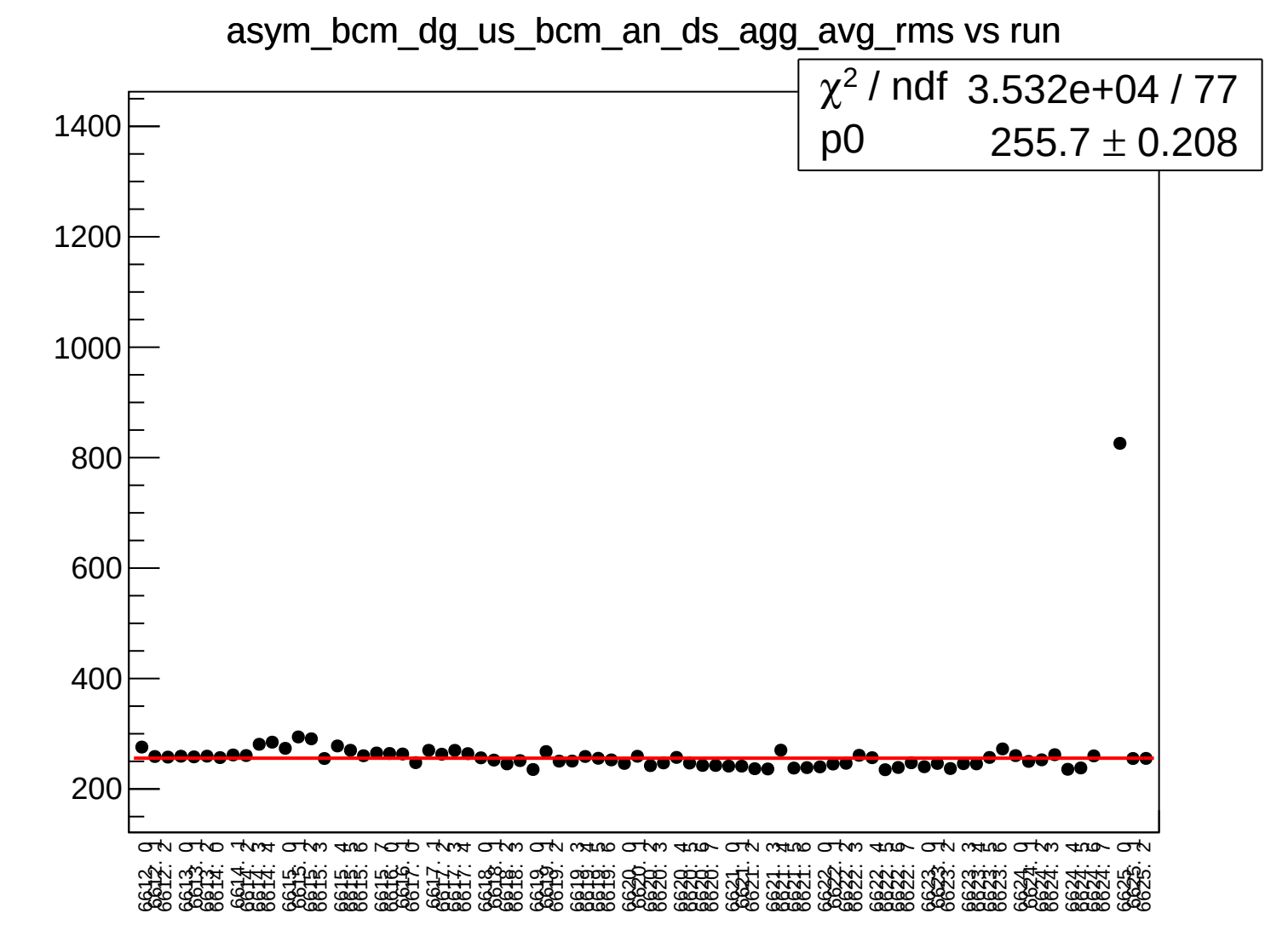

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 74.29 / 77
p0 18.39 ± 12.09
pull
Entries 78
Mean 809.4
Std Dev 761.2

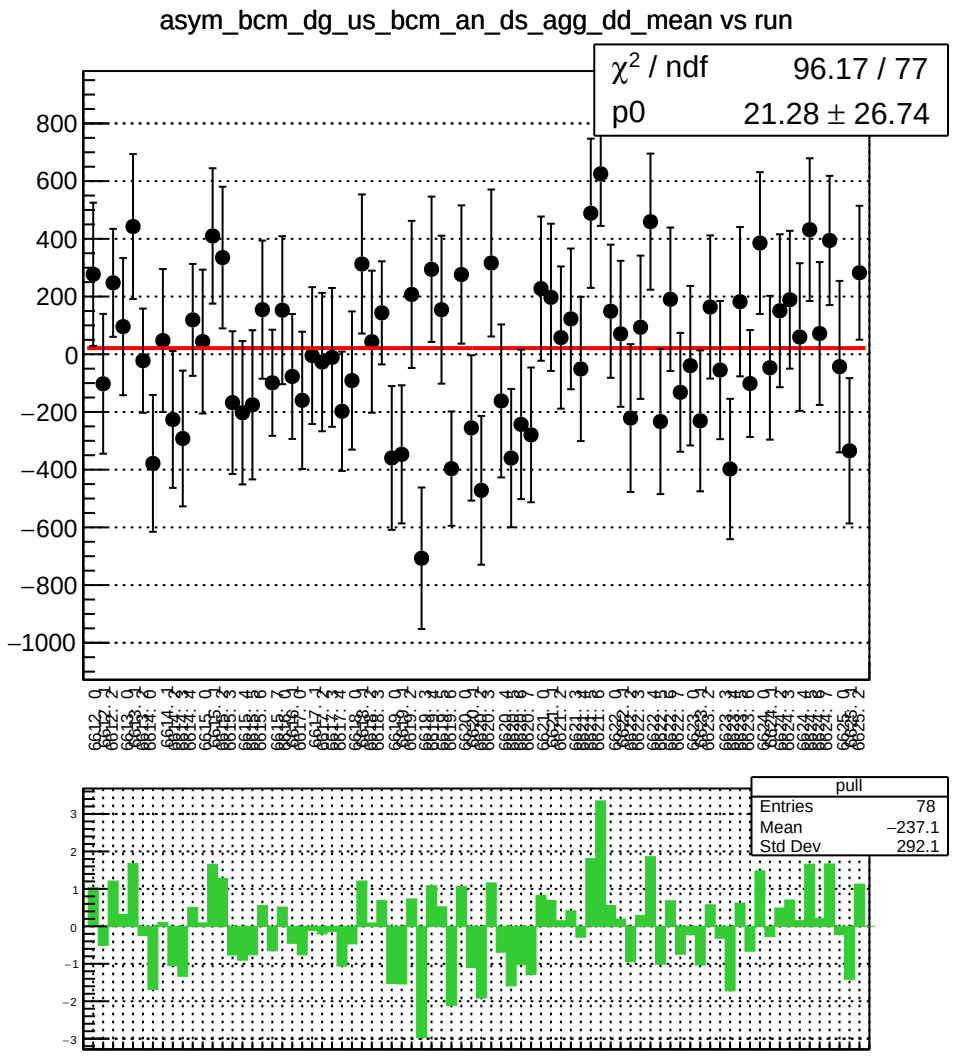

pull1D
Entries 78
Mean 0.004341
Std Dev 0.9759

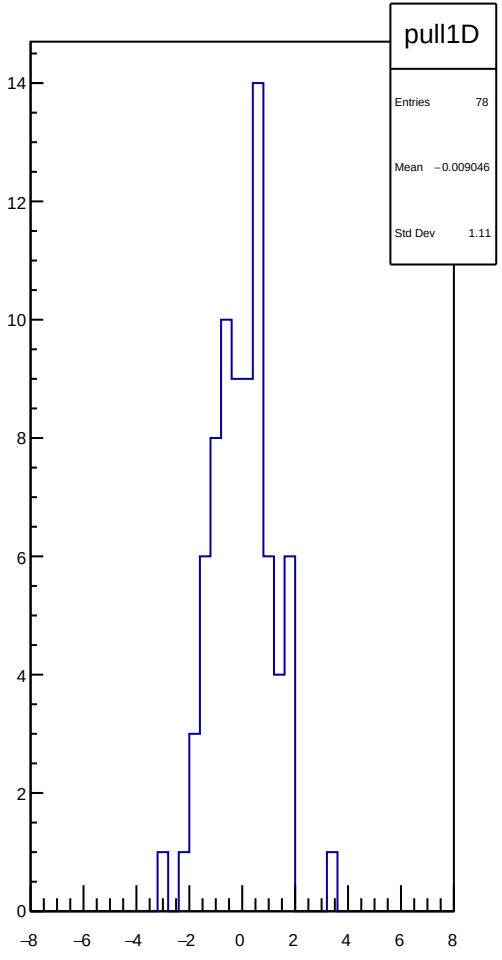

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.795e+04 / 77
p0 10.57 ± 0.008546
17
16
15
14
13
12
11
10
9

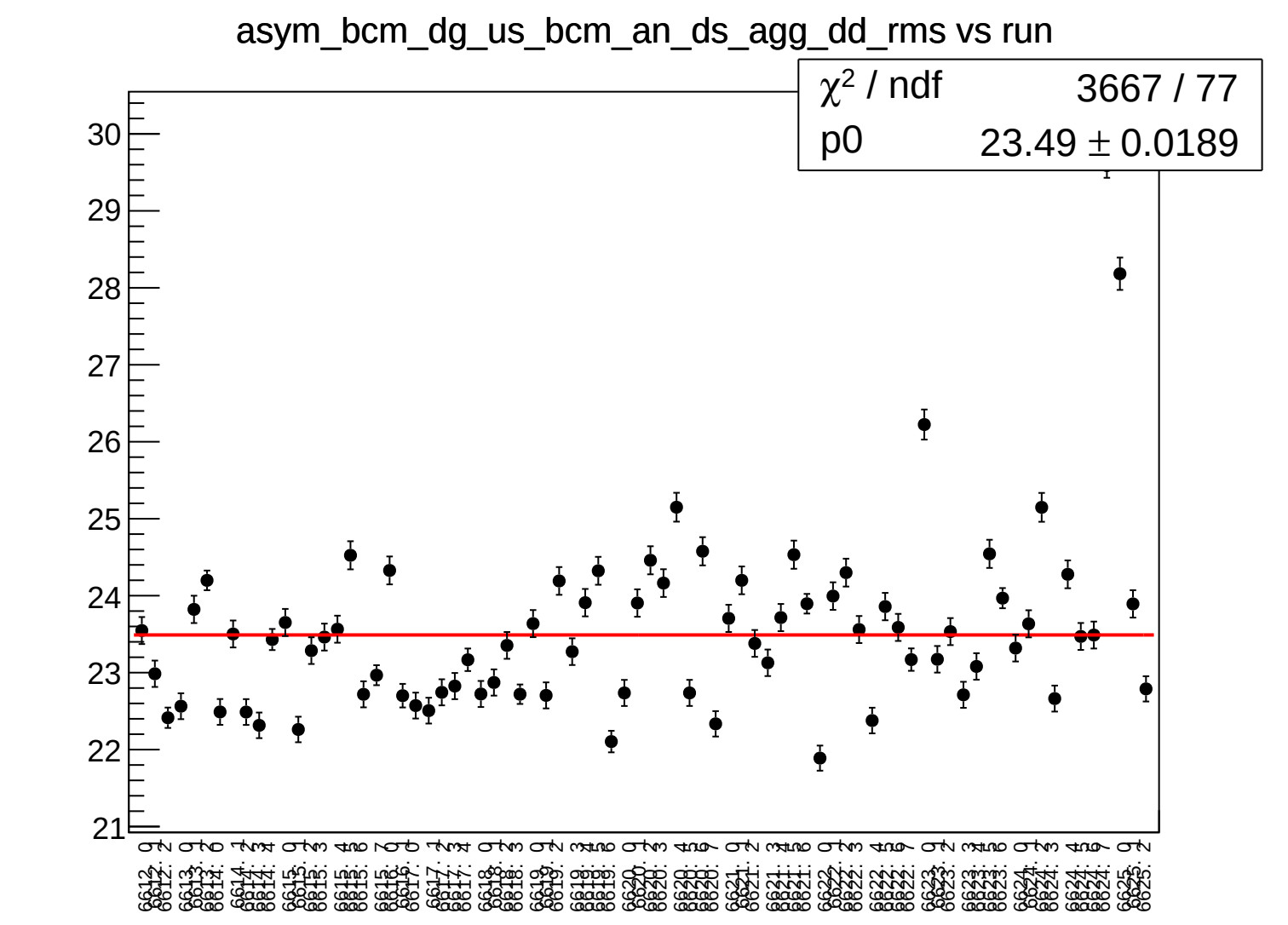

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.63 / 77
p0 71.34 ± 294.1
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −136.7
Std Dev 178.9
1
0.5
0
−0.5
−1

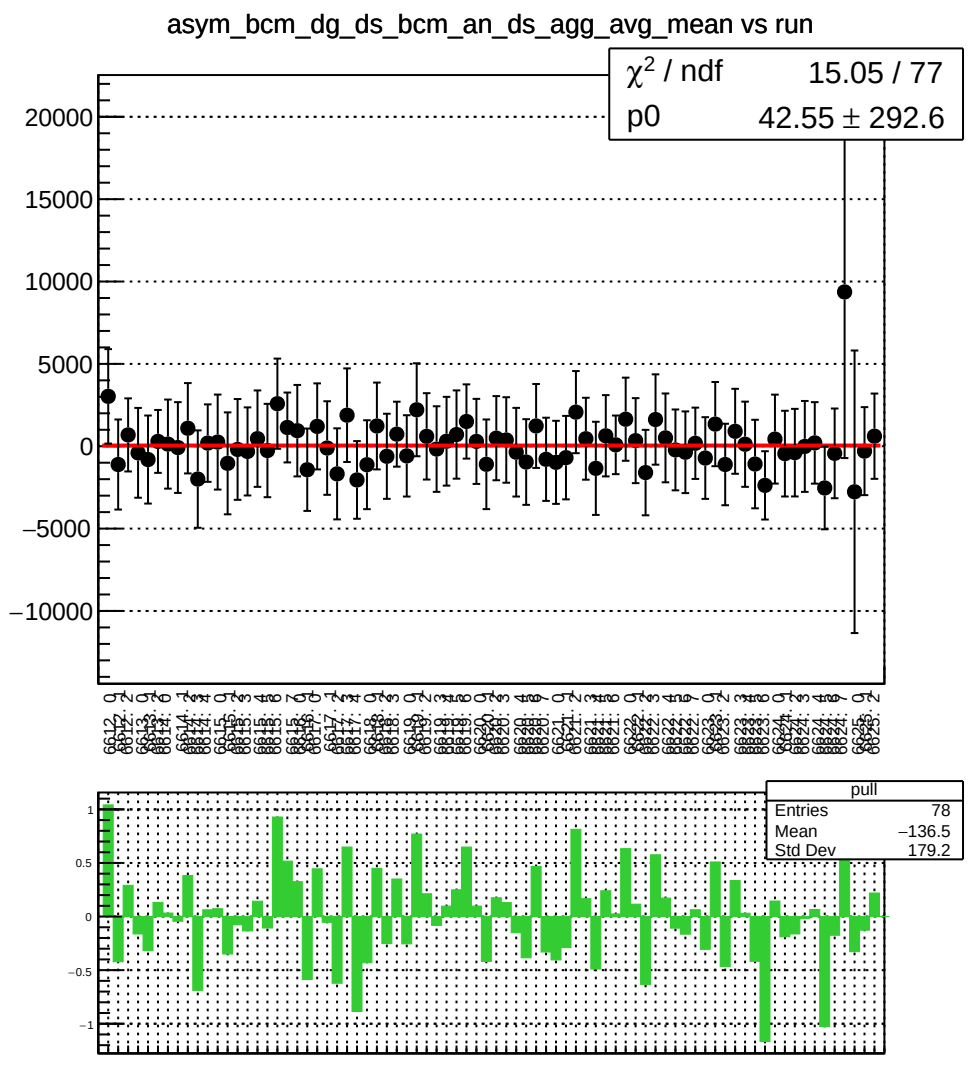

pull1D
Entries 78
Mean 0.005102
Std Dev 0.4477
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

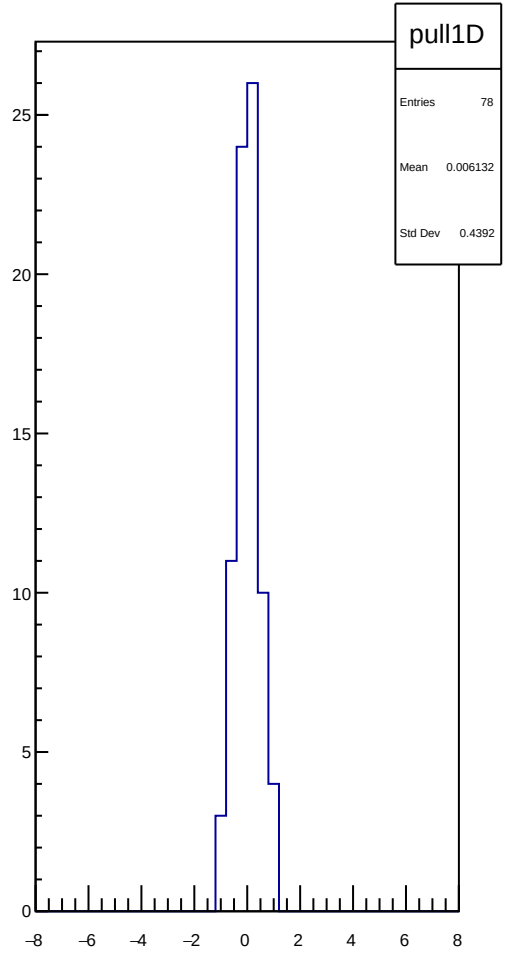

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.532e+04 / 77
p0 255.7 ± 0.208
1400
1200
1000
800
600
400
200

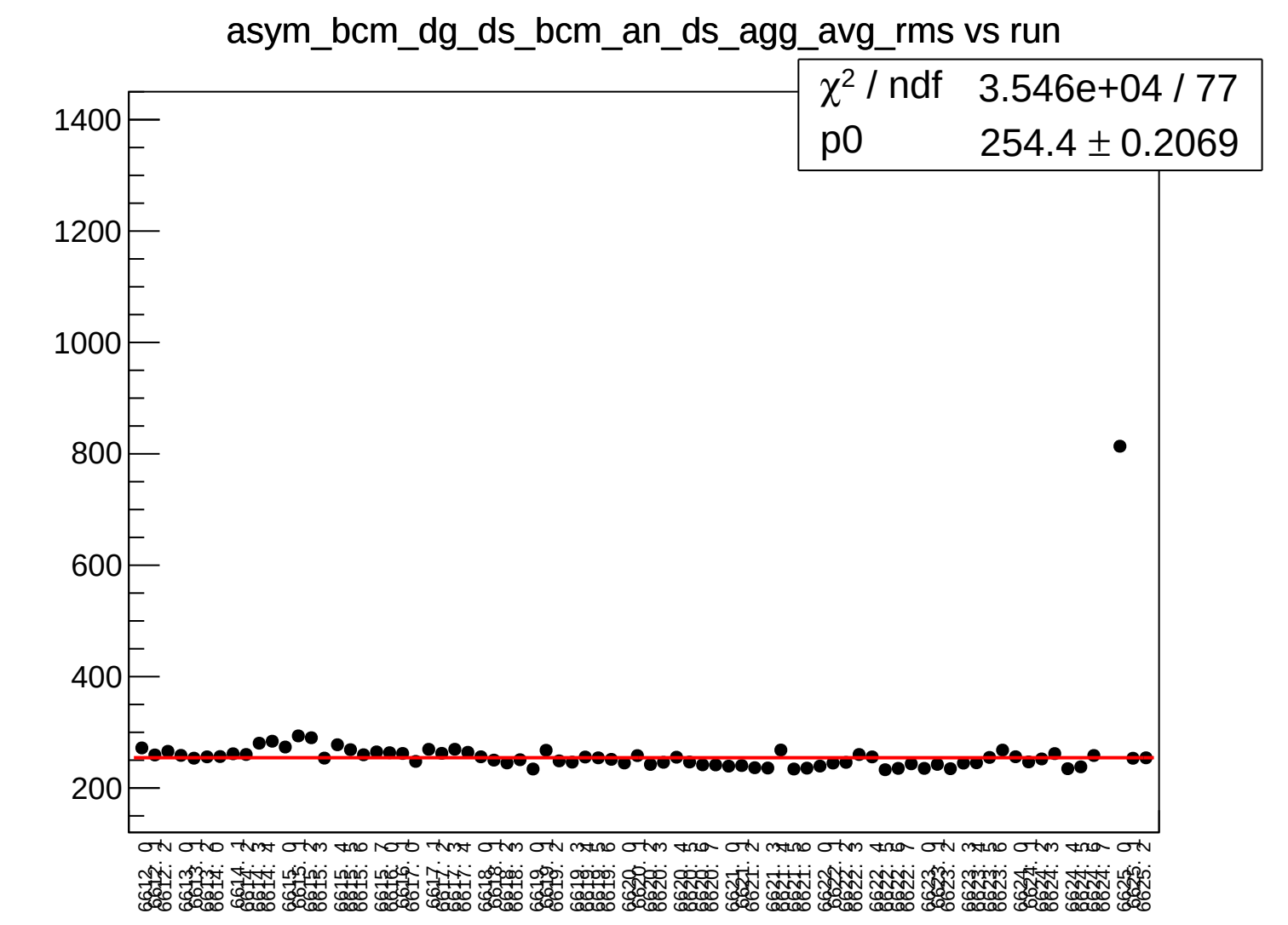

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 96.17 / 77
p0 21.28 ± 26.74
pull
Entries 78
Mean −237.1
Std Dev 292.1

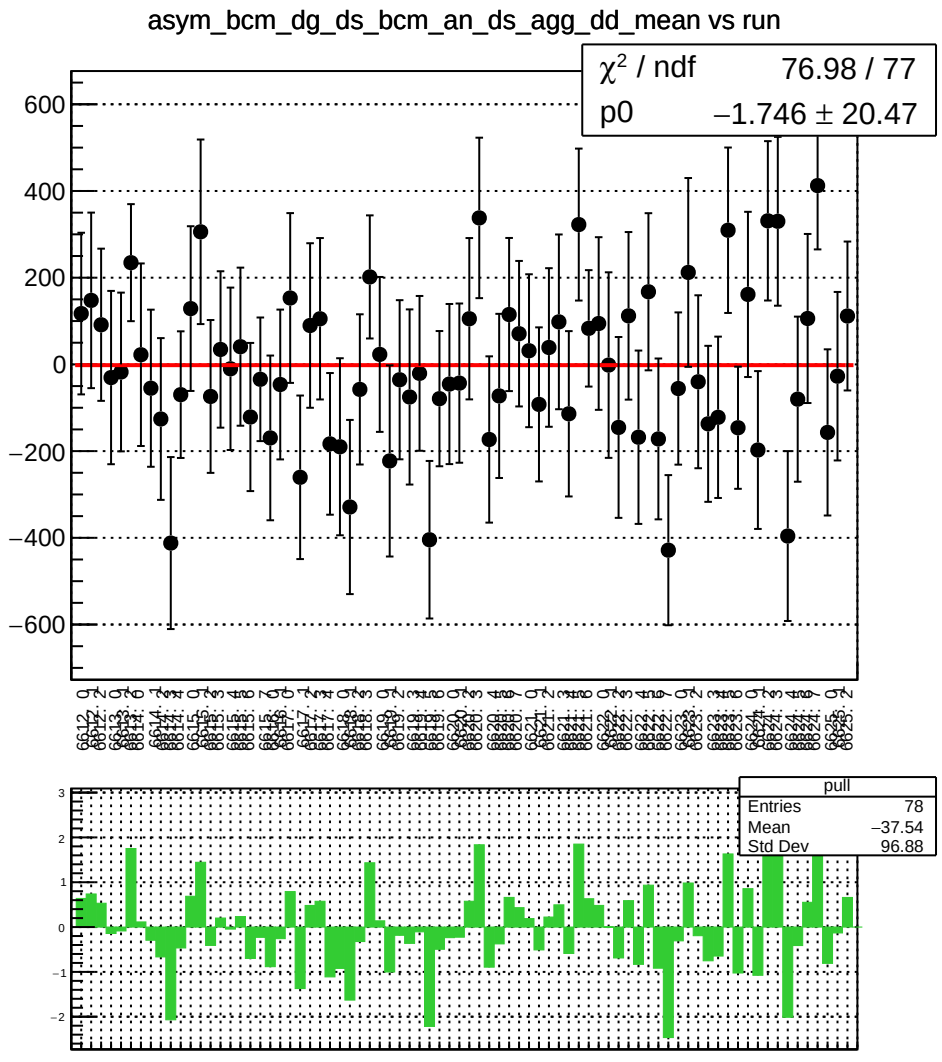

pull1D
Entries 78
Mean −0.009046
Std Dev 1.11

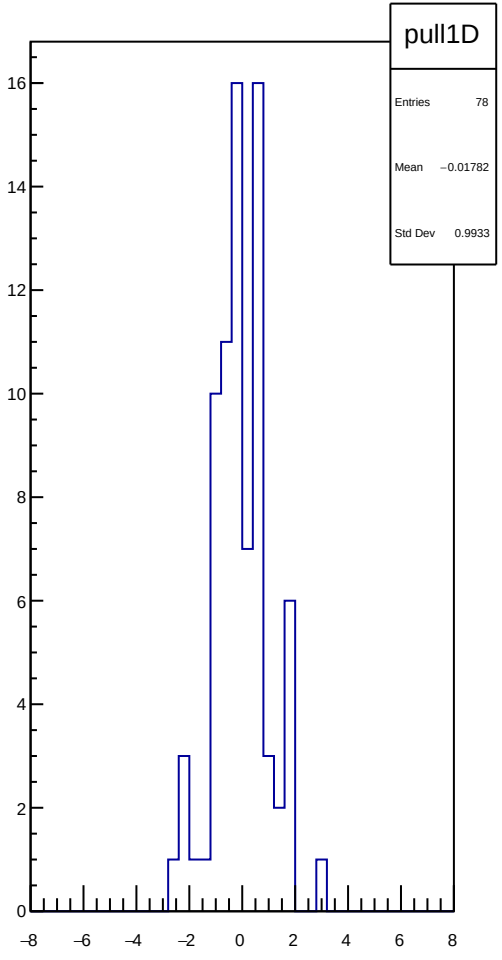

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3667 / 77
p0 23.49 ± 0.0189
30
29
28
27
26
25
24
23
22
21

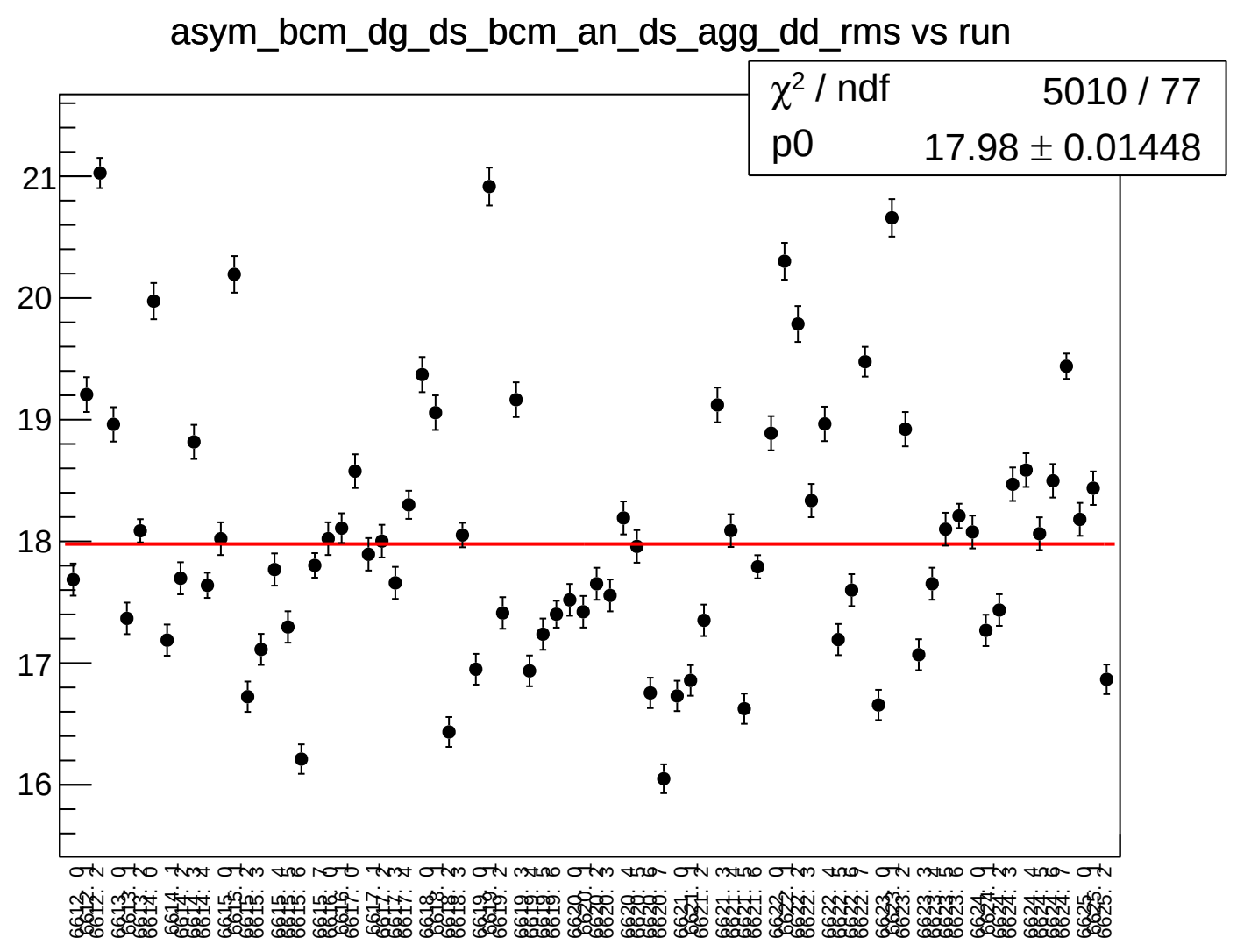

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.05 / 77
p0 42.55 ± 292.6
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −136.5
Std Dev 179.2
1
0.5
0
−0.5
−1

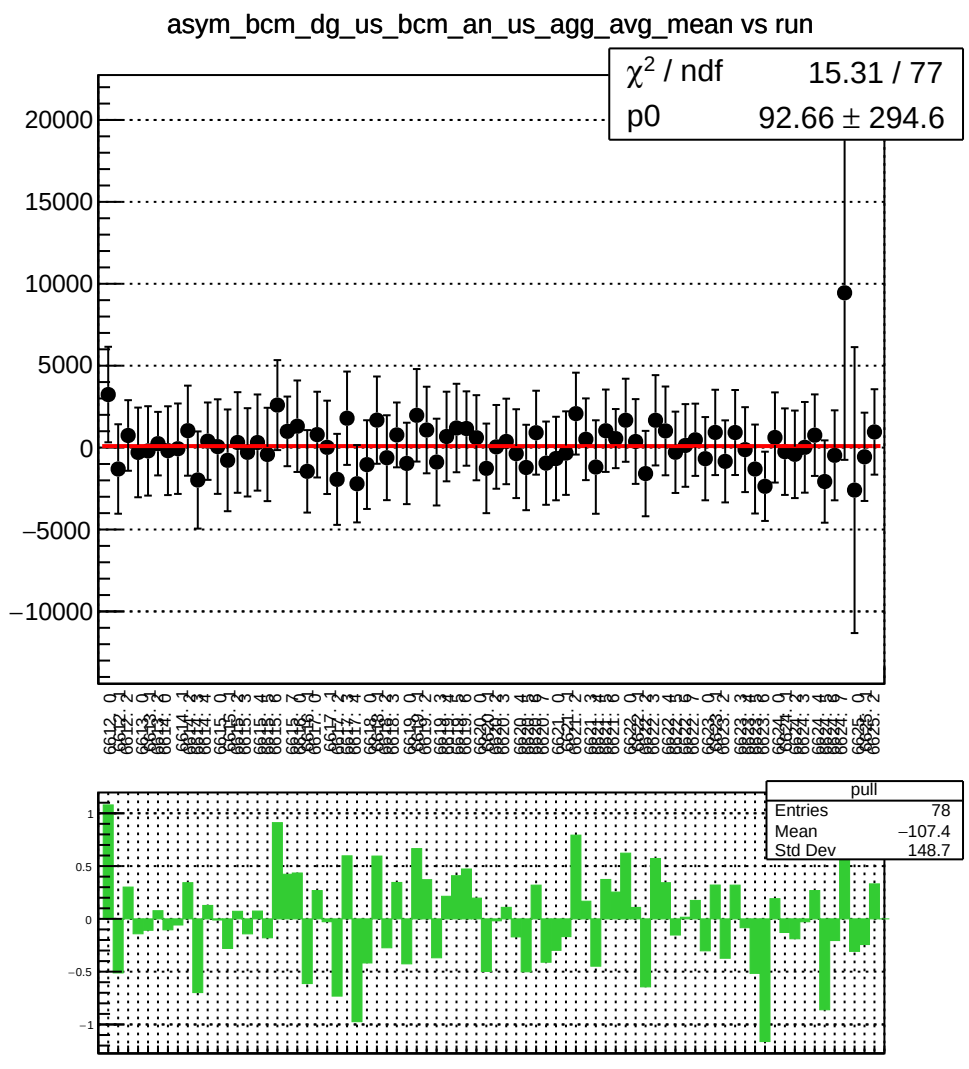

pull1D
Entries 78
Mean 0.006132
Std Dev 0.4392
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

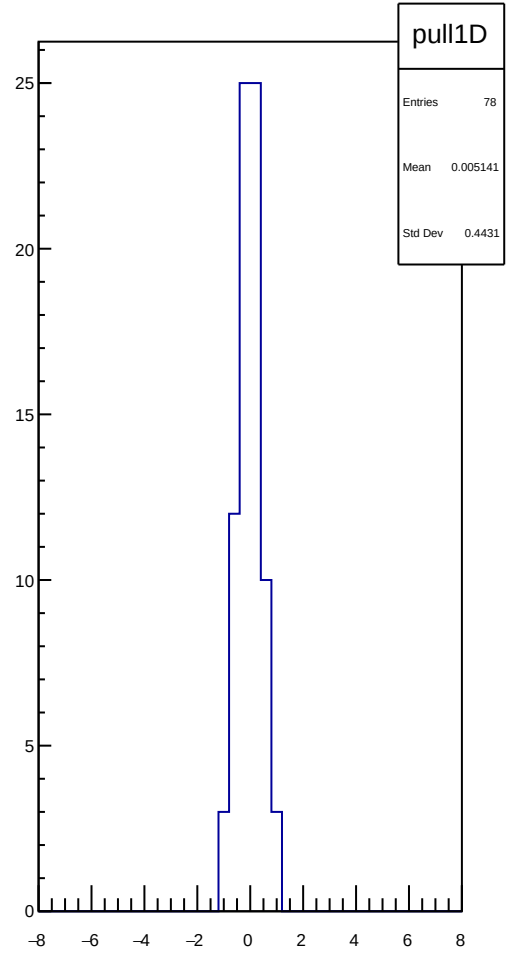

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.546e+04 / 77
p0 254.4 ± 0.2069
1400
1200
1000
800
600
400
200

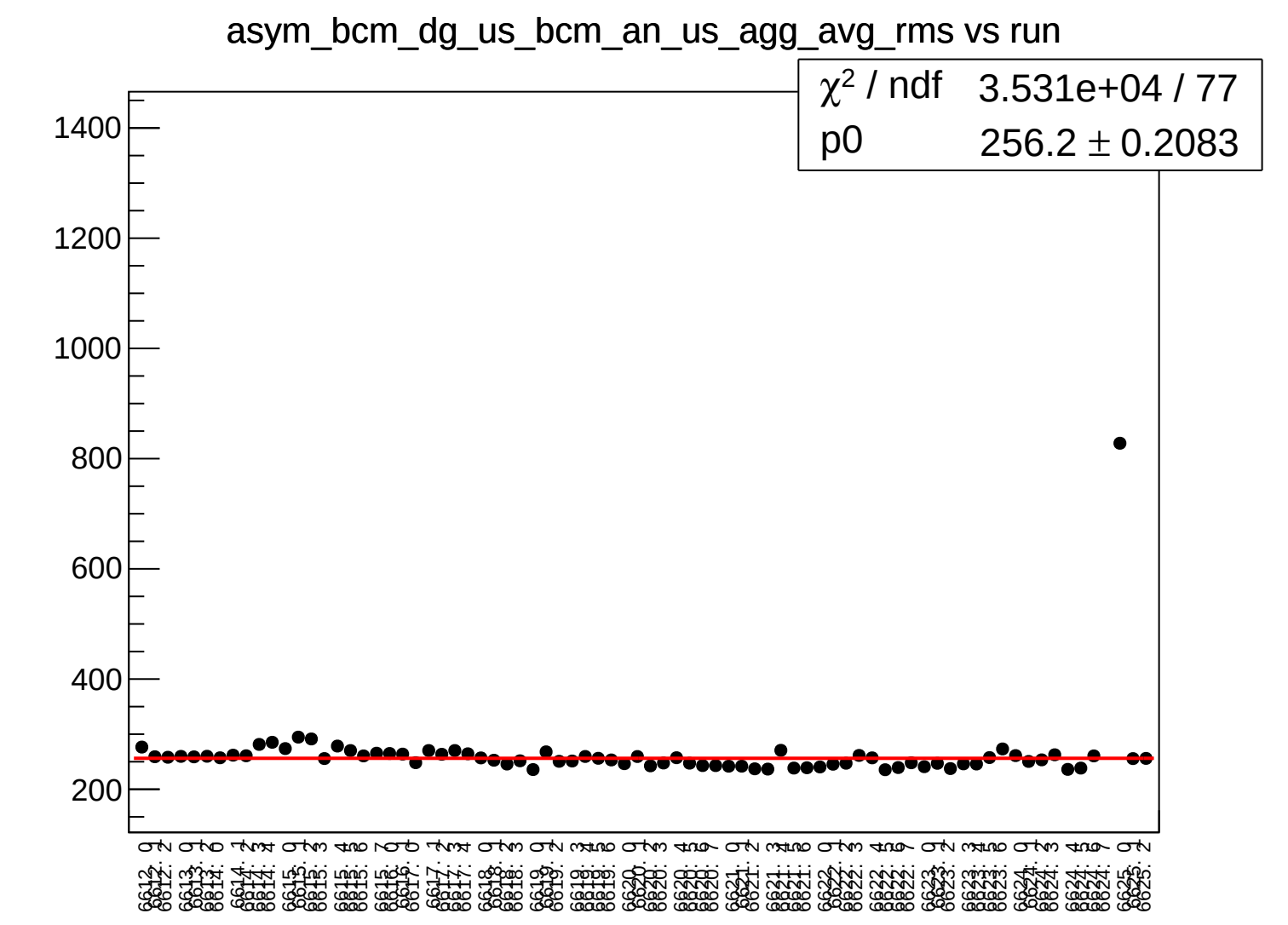

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 76.98 / 77
p0 −1.746 ± 20.47
pull
Entries 78
Mean −37.54
Std Dev 96.88

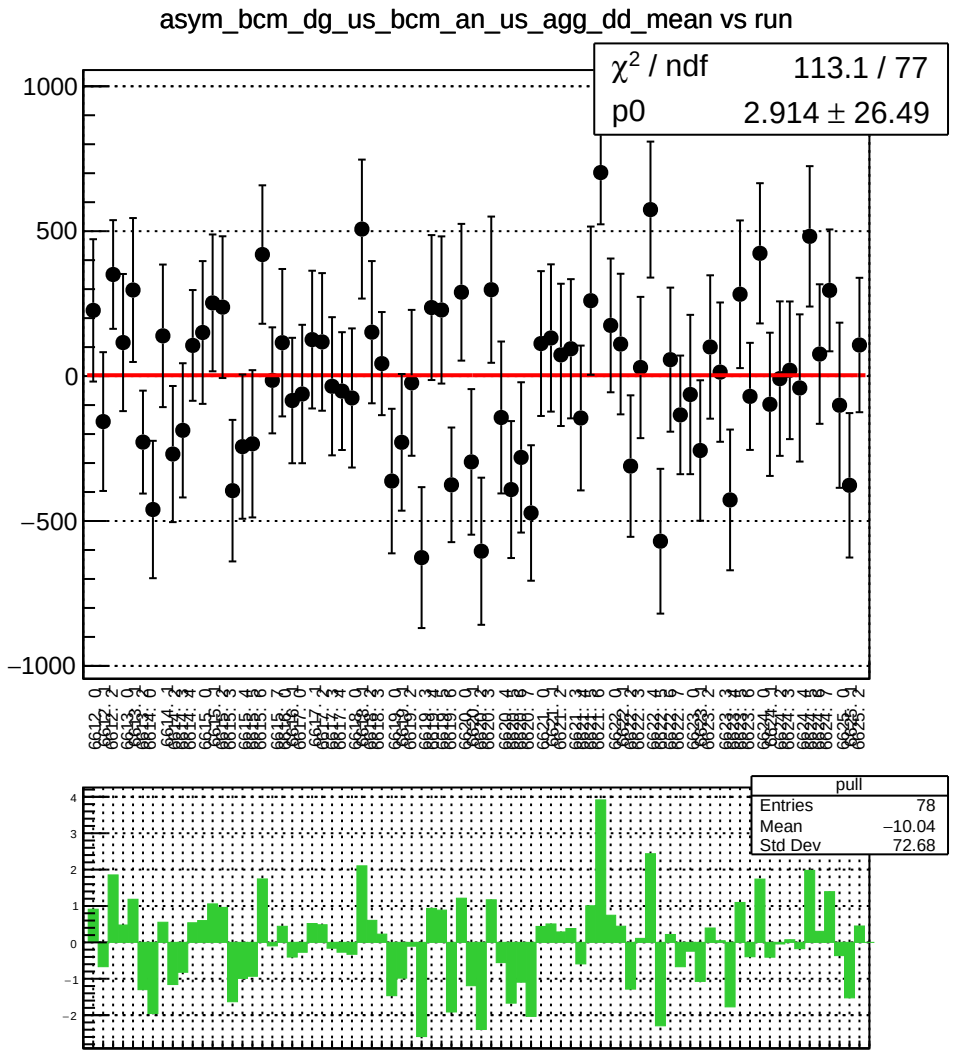

pull1D
Entries 78
Mean −0.01782
Std Dev 0.9933

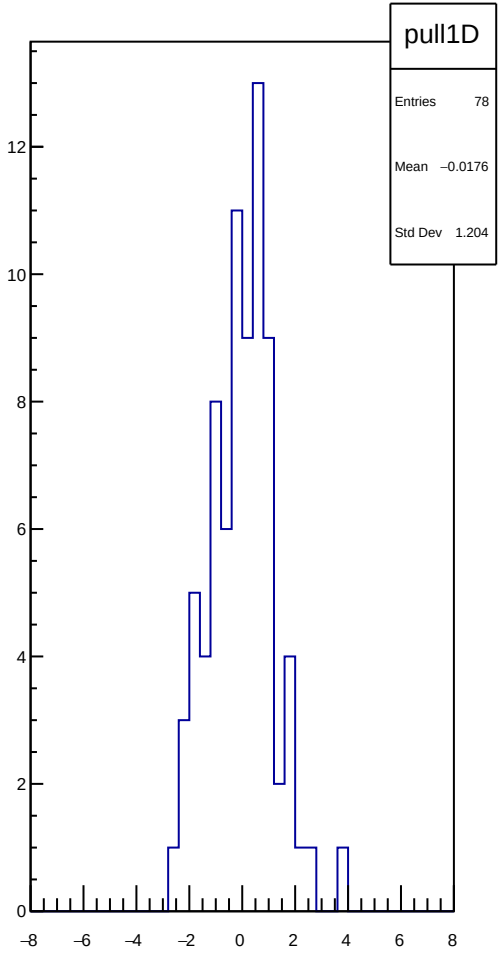

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5010 / 77
p0 17.98 ± 0.01448
21
20
19
18
17
16

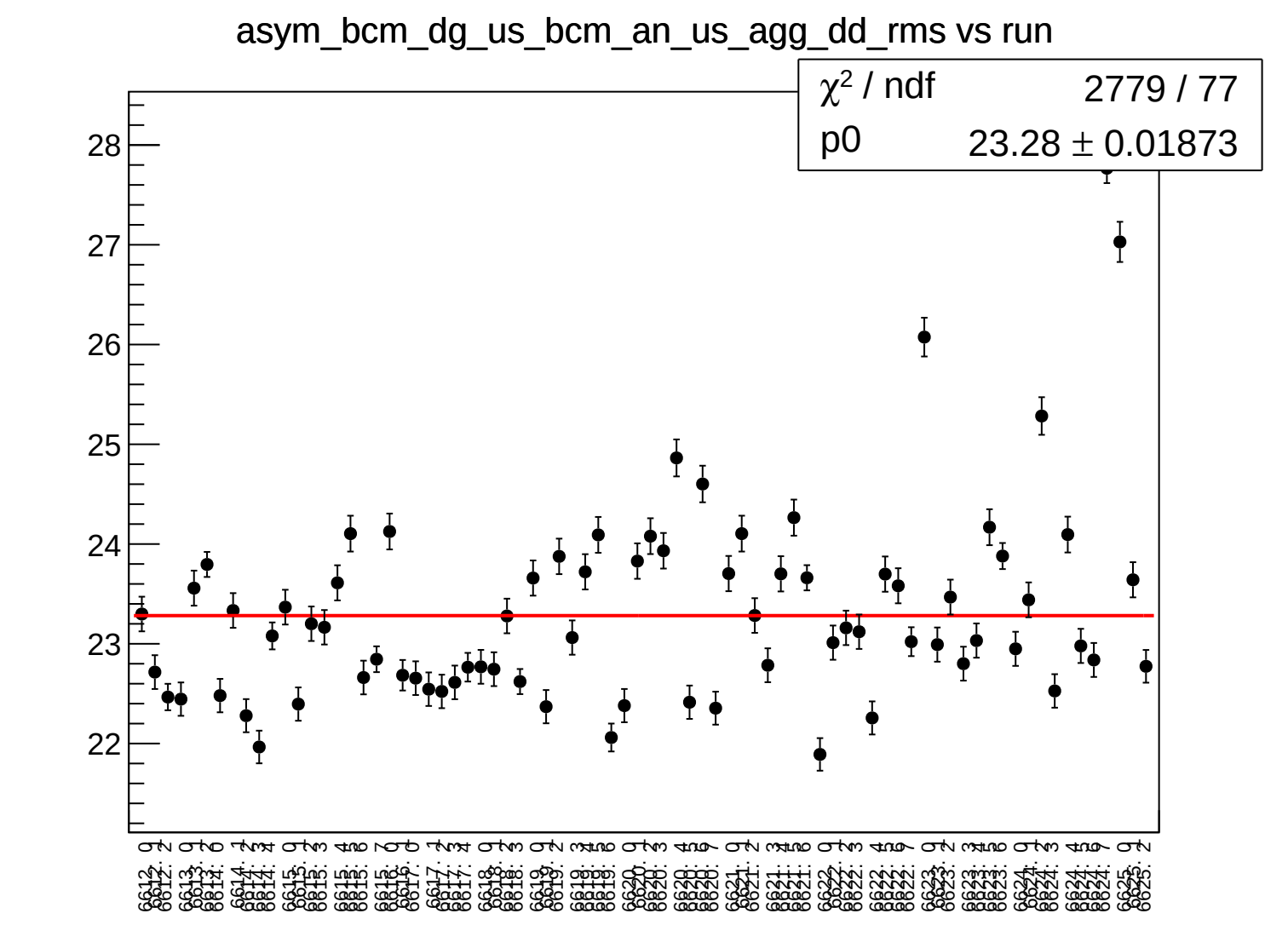

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.31 / 77
p0 92.66 ± 294.6
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −107.4
Std Dev 148.7
1
0.5
0
−0.5
−1

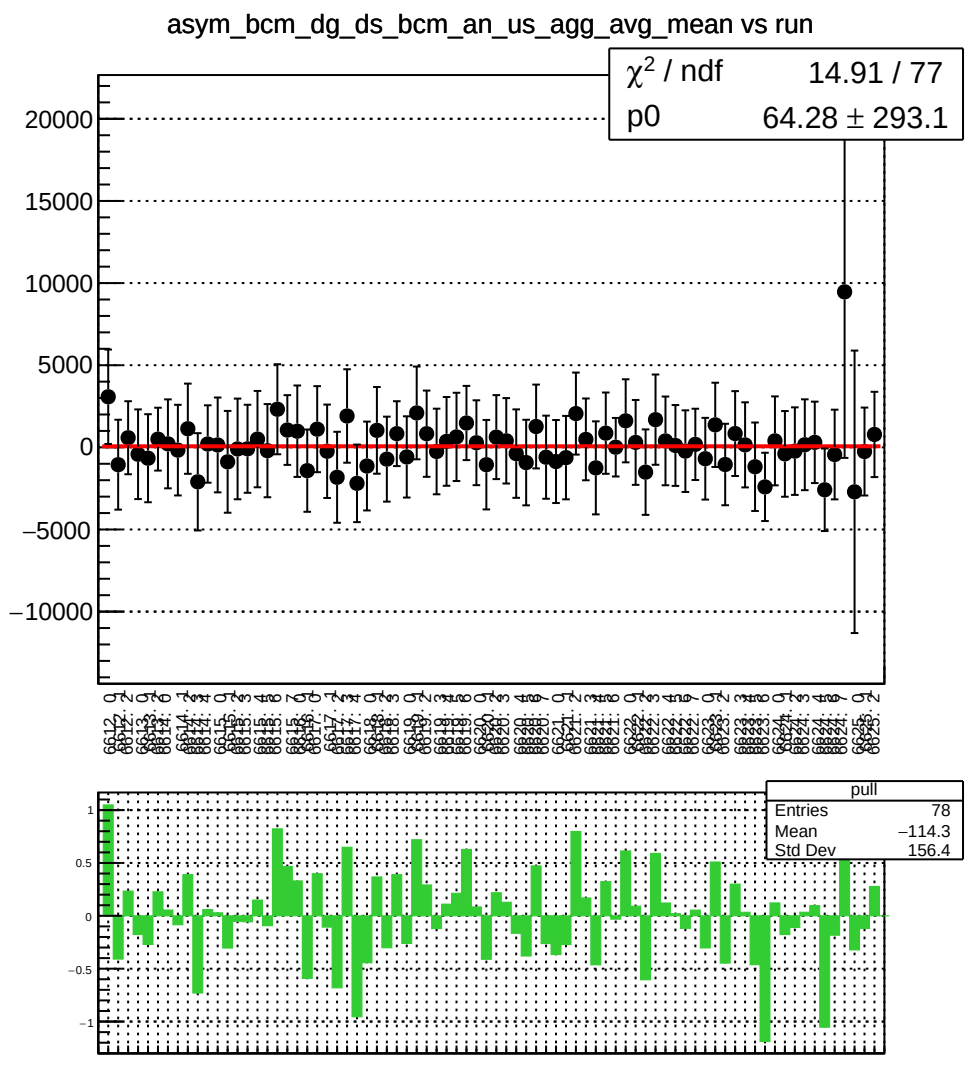

pull1D
Entries 78
Mean 0.005141
Std Dev 0.4431
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

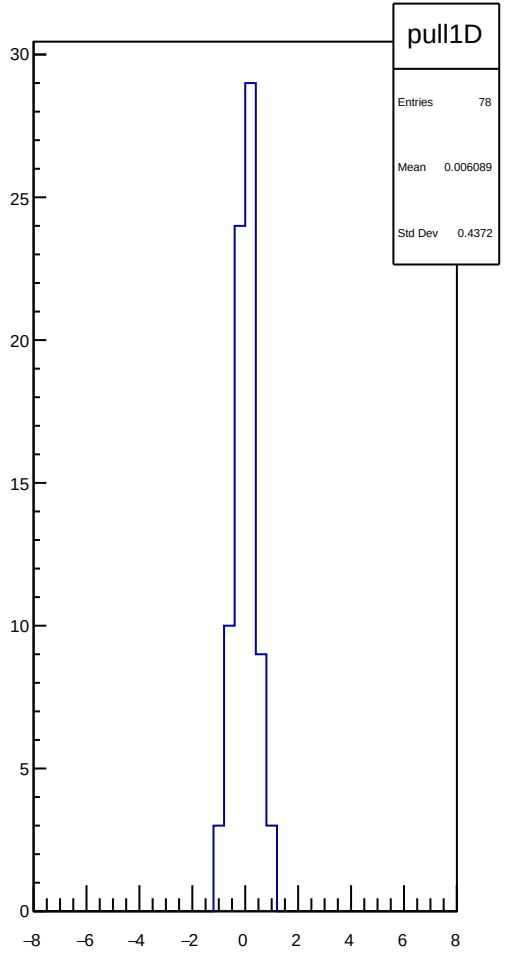

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.531e+04 / 77
p0 256.2 ± 0.2083
1400
1200
1000
800
600
400
200

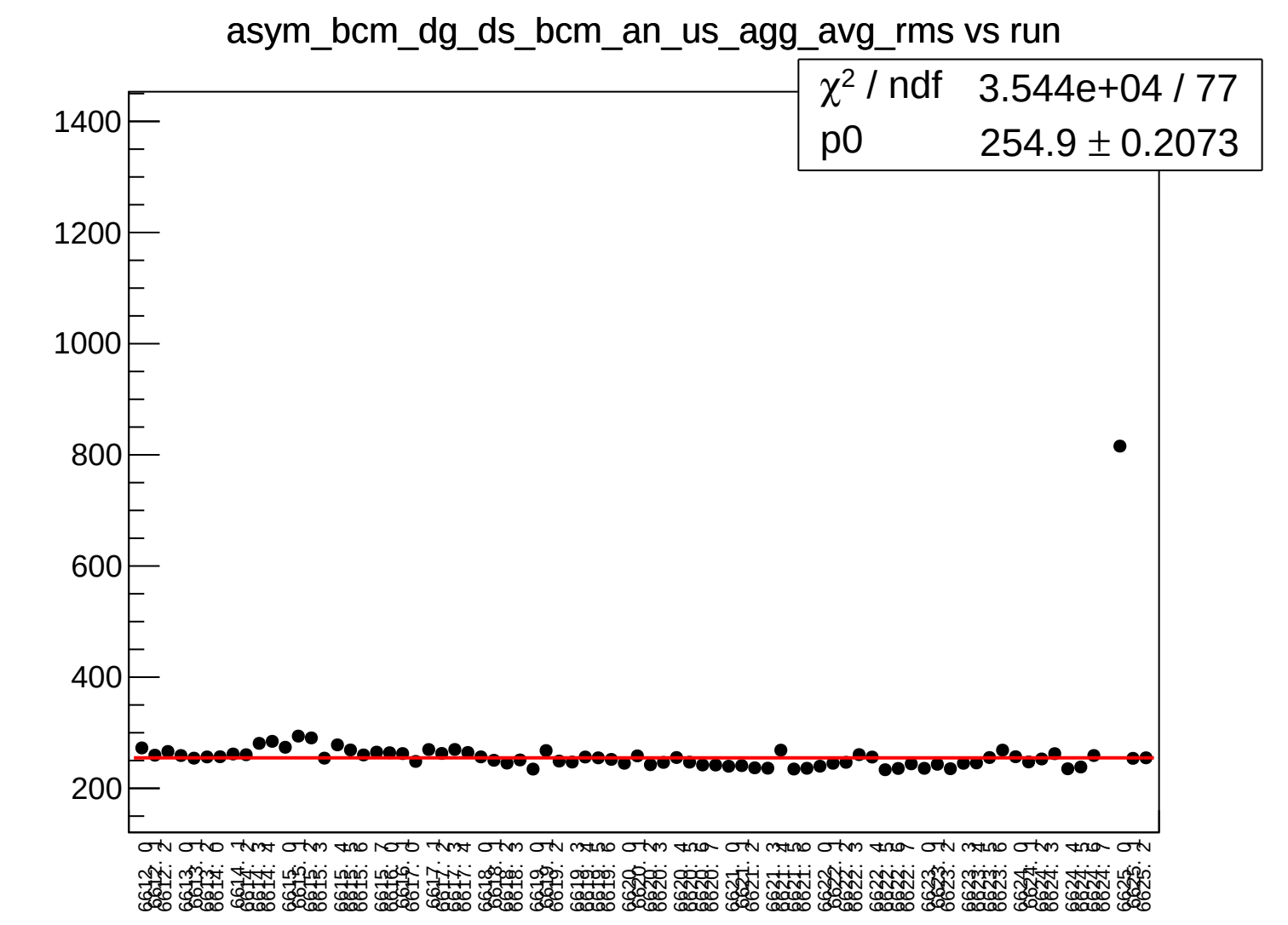

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 113.1 / 77
p0 2.914 ± 26.49
1000
500
0
−500
−1000
pull
Entries 78
Mean −10.04
Std Dev 72.68
4
3
2
1
0
−1
−2

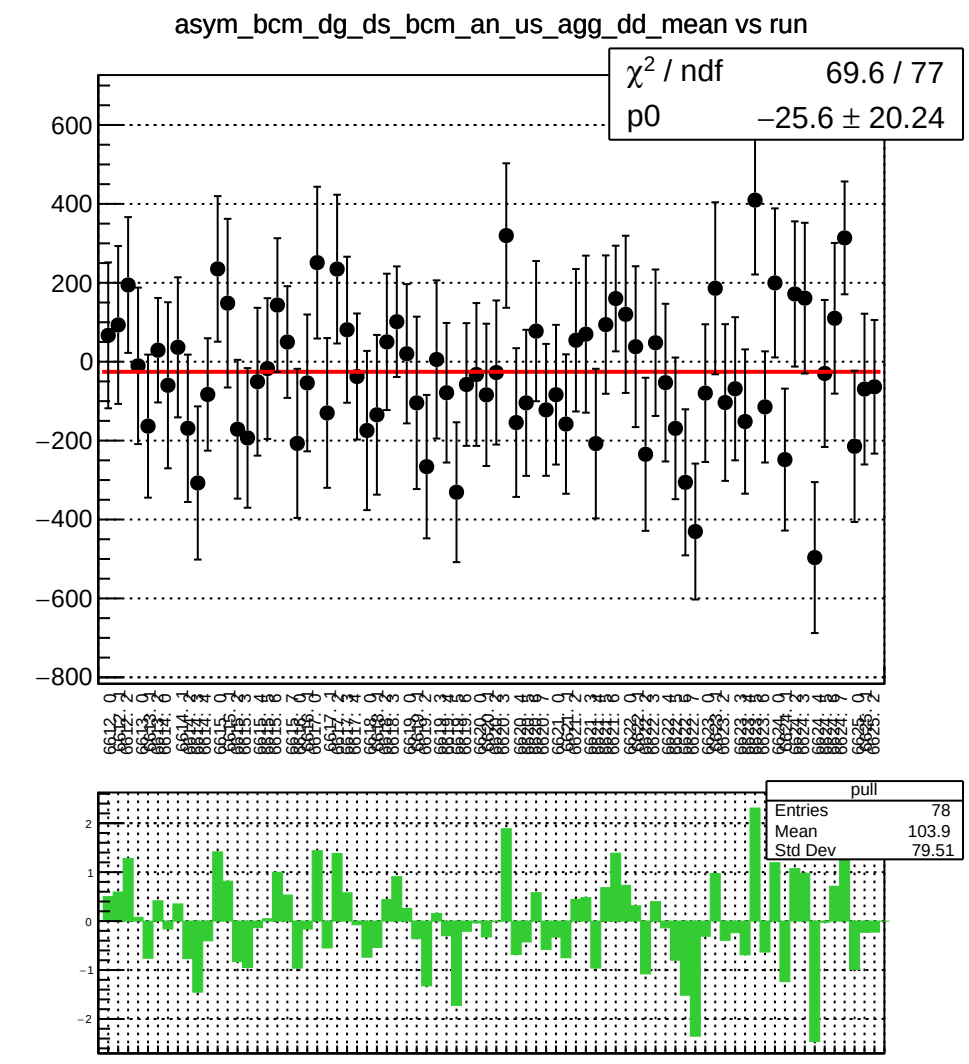

pull1D
Entries 78
Mean −0.0176
Std Dev 1.204
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

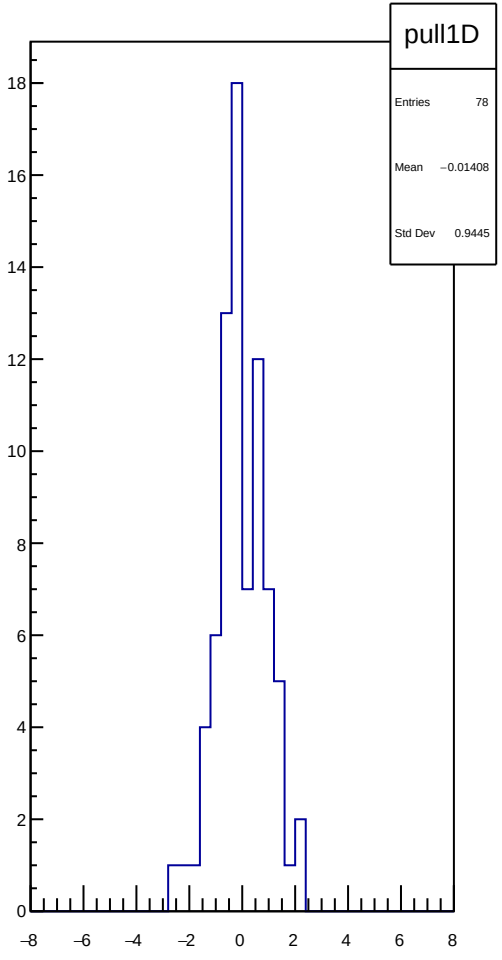

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2779 / 77
p0 23.28 ± 0.01873
28
27
26
25
24
23
22

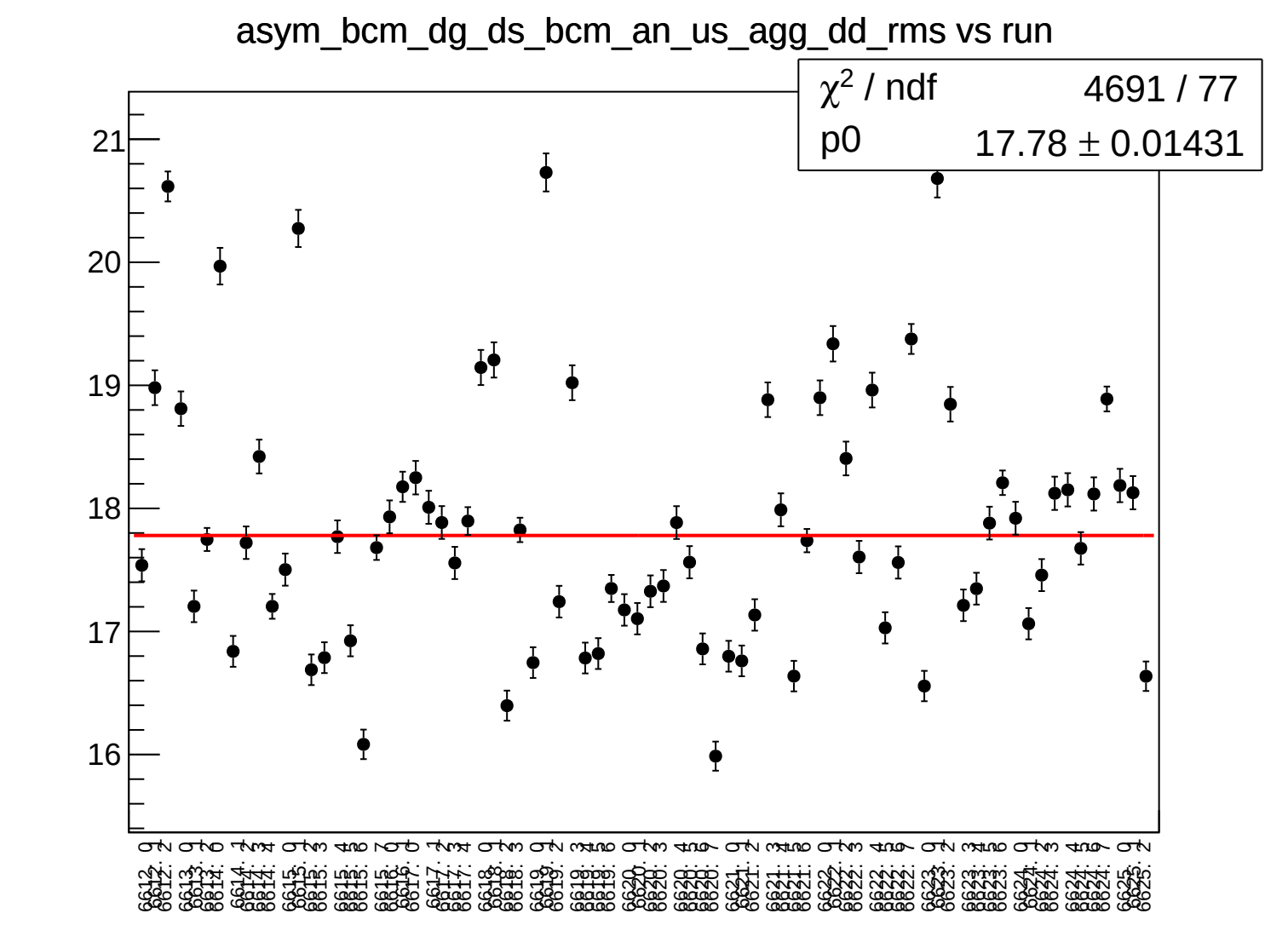

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.91 / 77
p0 64.28 ± 293.1
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −114.3
Std Dev 156.4
1
0.5
0
−0.5
−1

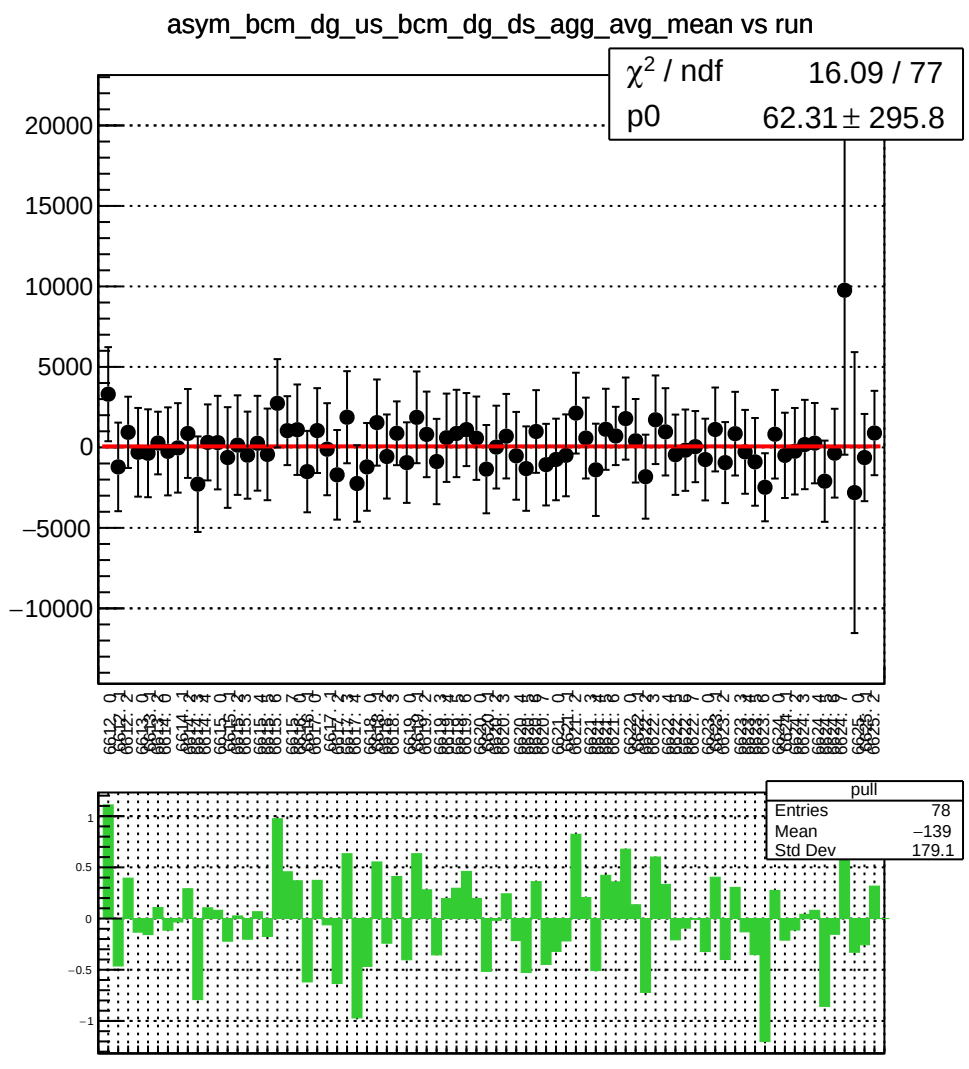

pull1D
Entries 78
Mean 0.006089
Std Dev 0.4372
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

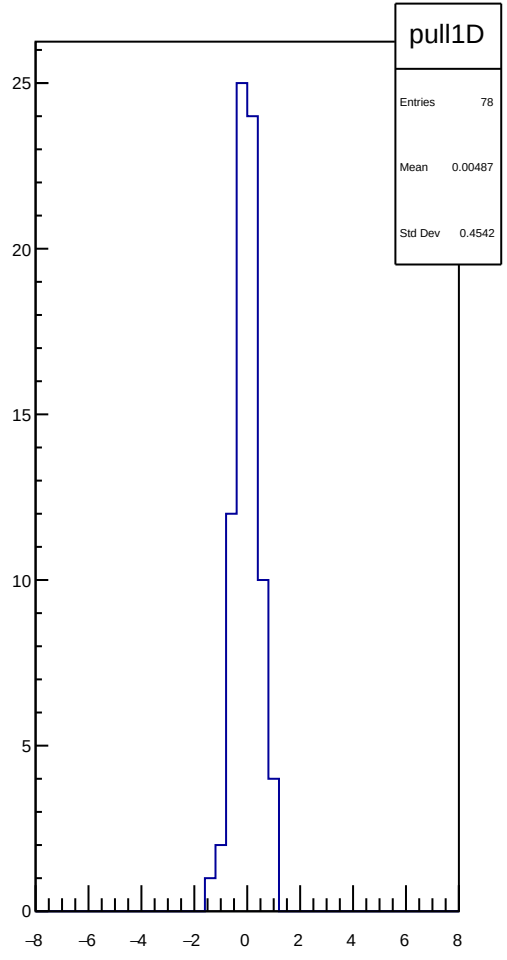

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.544e+04 / 77
p0 254.9 ± 0.2073
1400
1200
1000
800
600
400
200

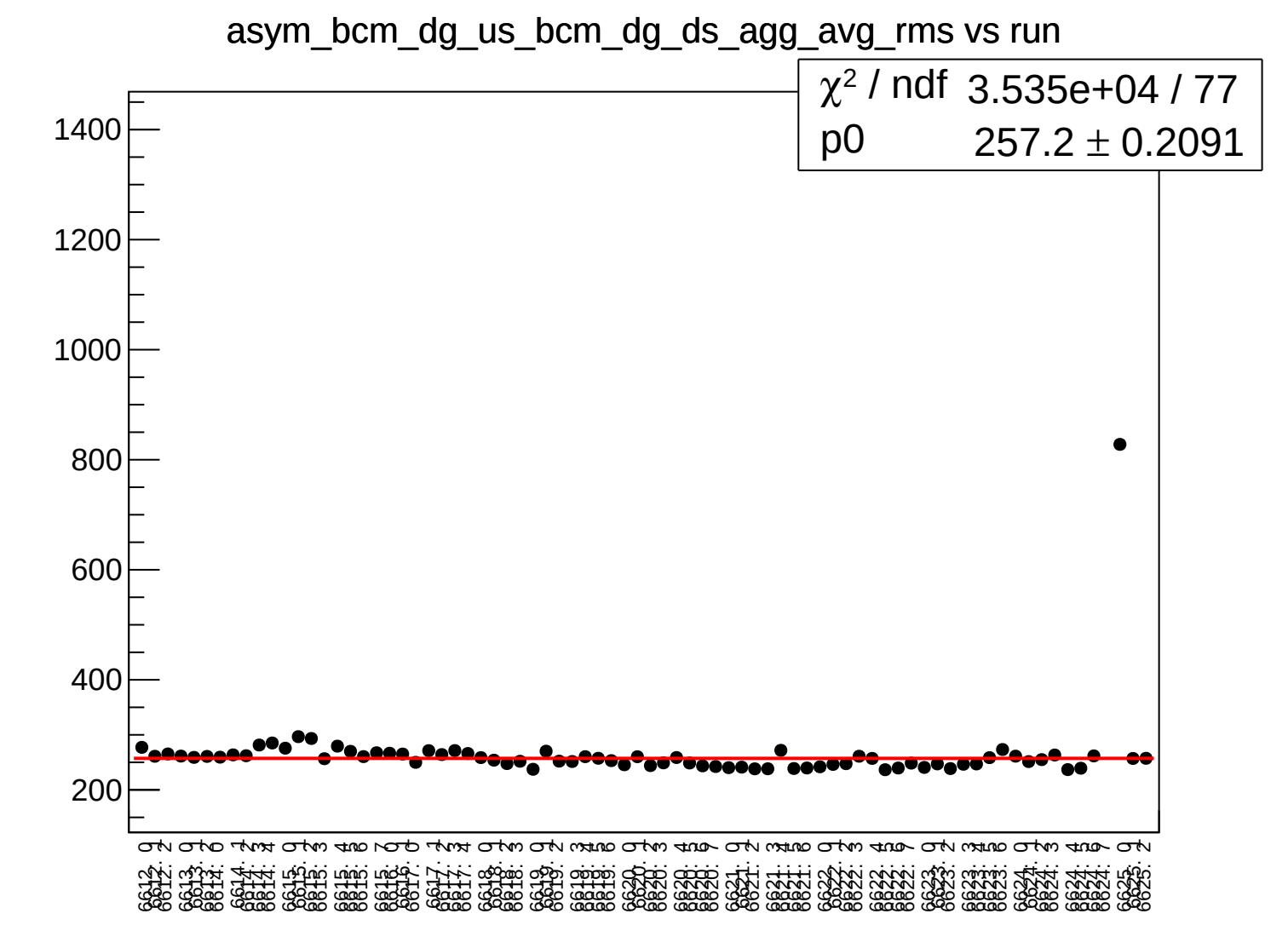

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 69.6 / 77
p0 −25.6 ± 20.24
pull
Entries 78
Mean 103.9
Std Dev 79.51

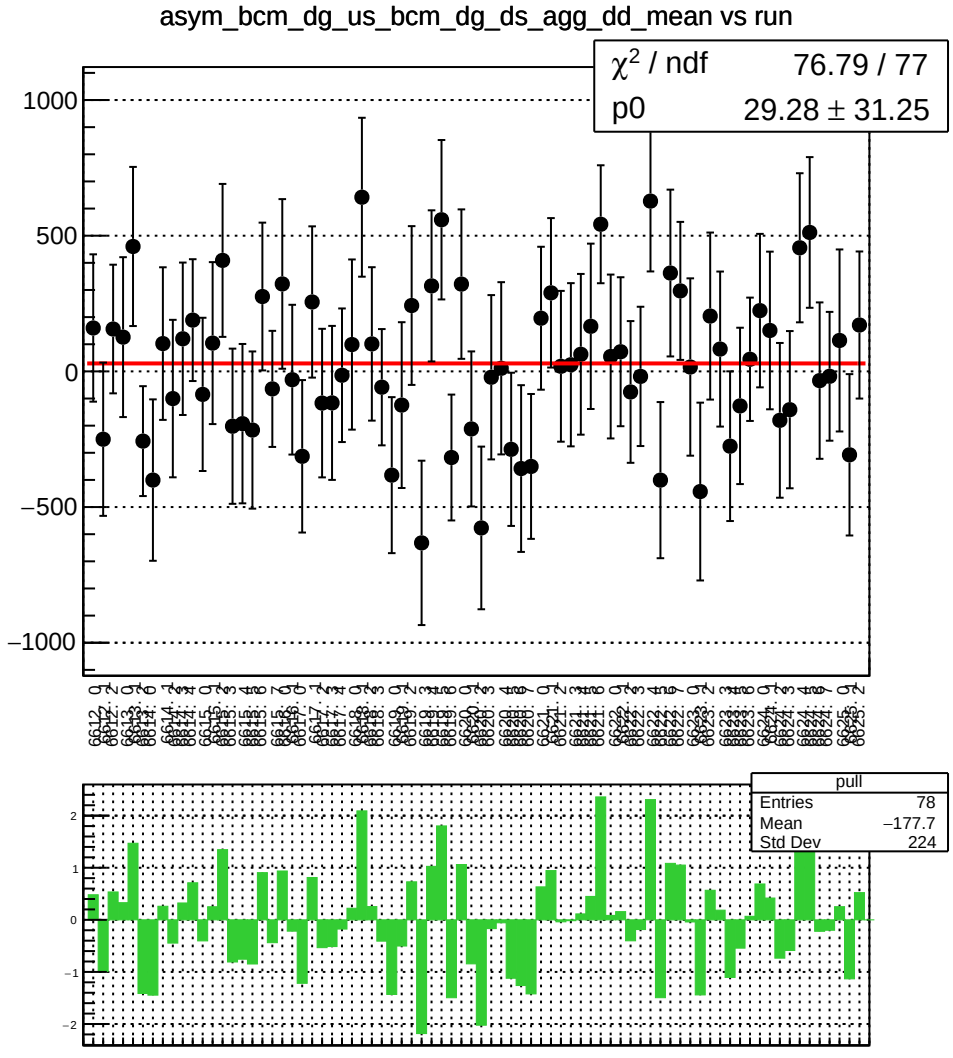

pull1D
Entries 78
Mean −0.01408
Std Dev 0.9445

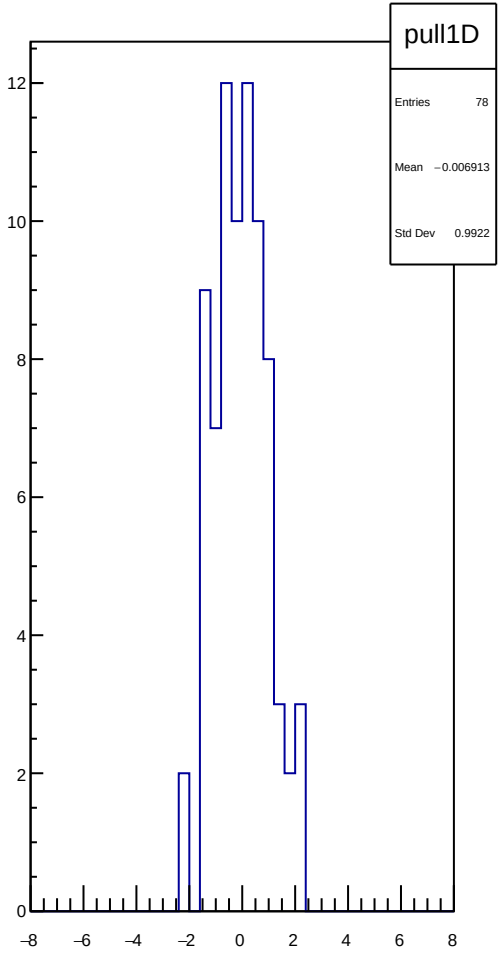

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4691 / 77
p0 17.78 ± 0.01431
21
20
19
18
17
16

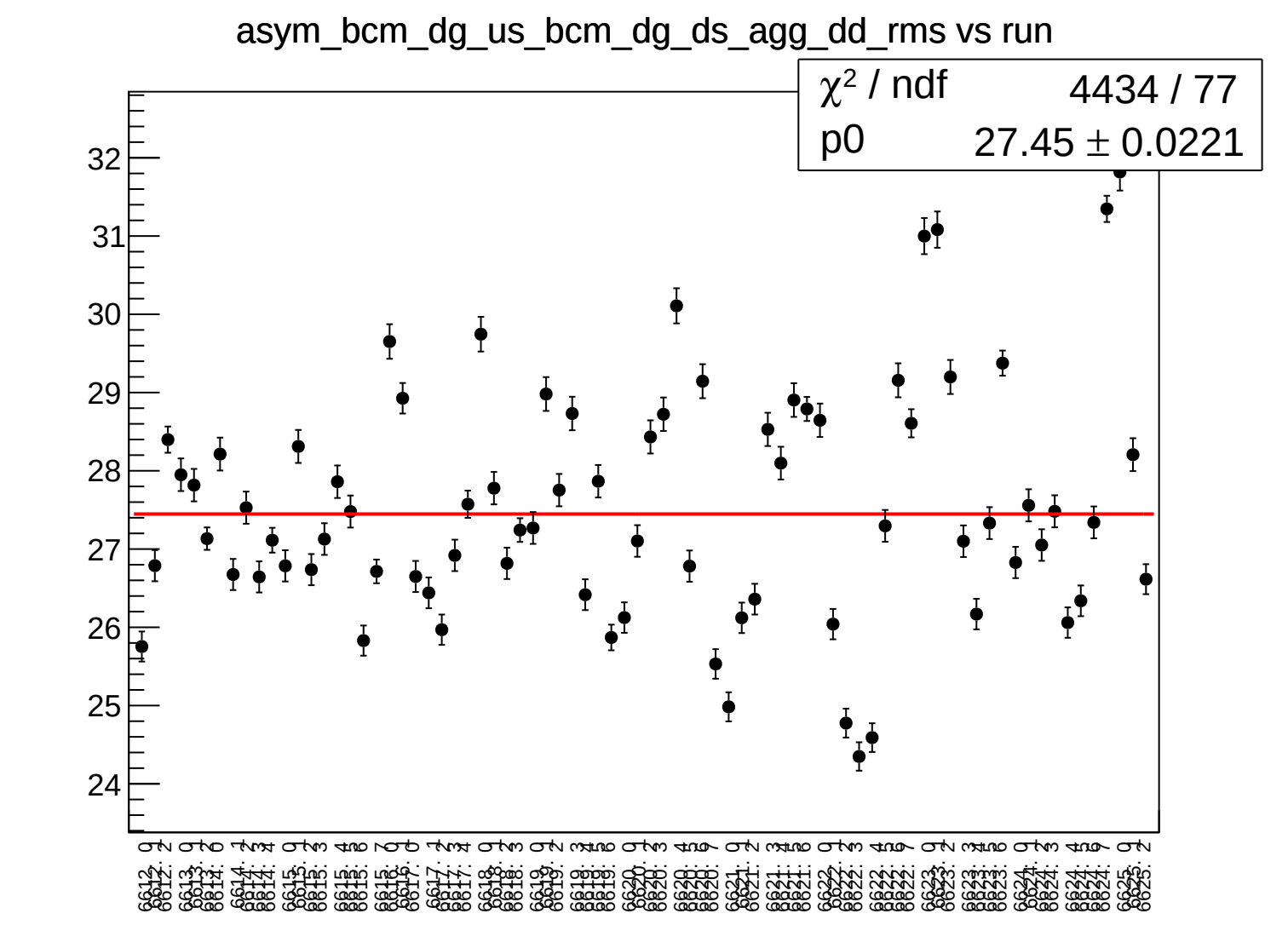

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 16.09 / 77
p0 62.31 ± 295.8
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −139
Std Dev 179.1
1
0.5
0
−0.5
−1

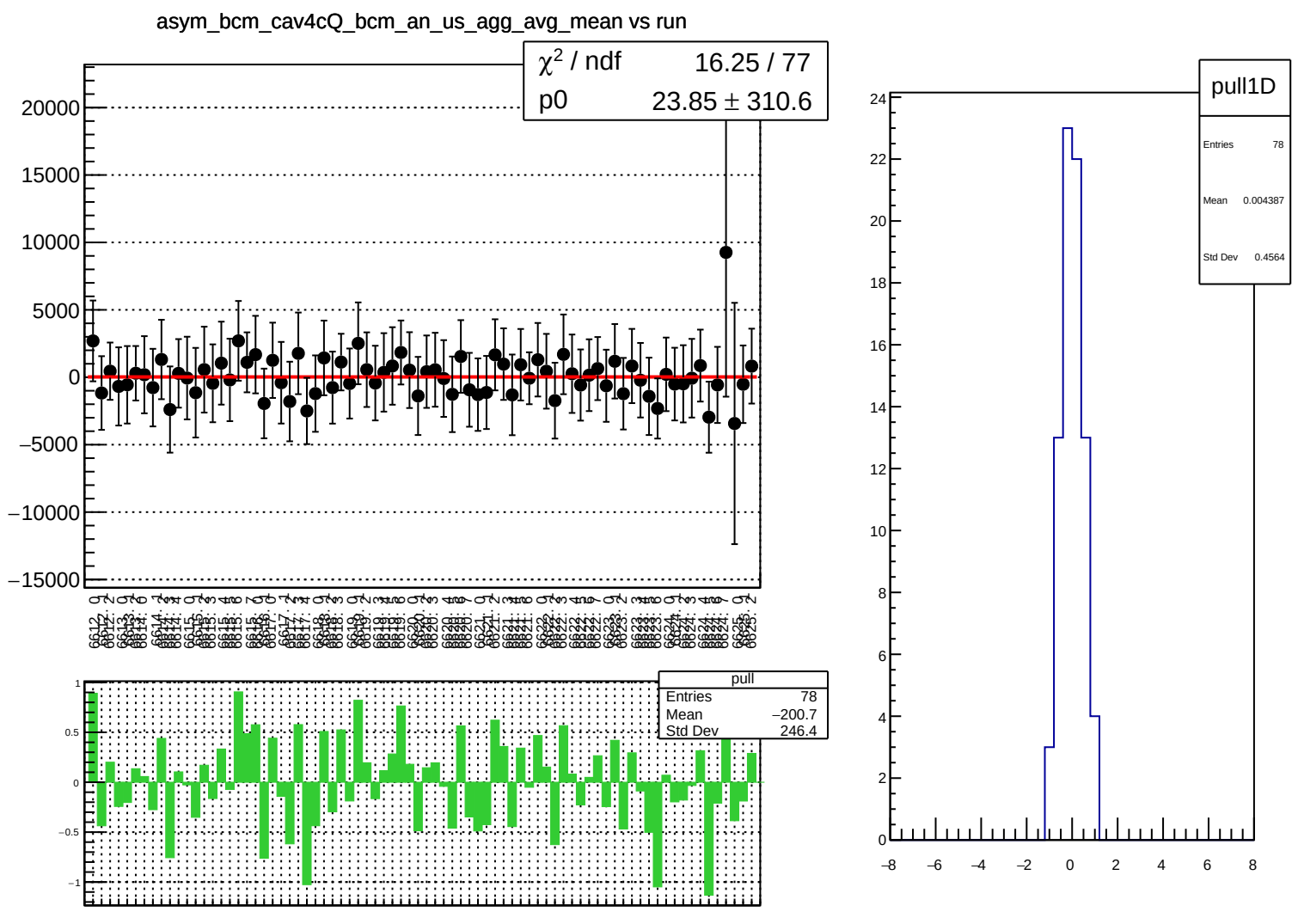

pull1D
Entries 78
Mean 0.00487
Std Dev 0.4542
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

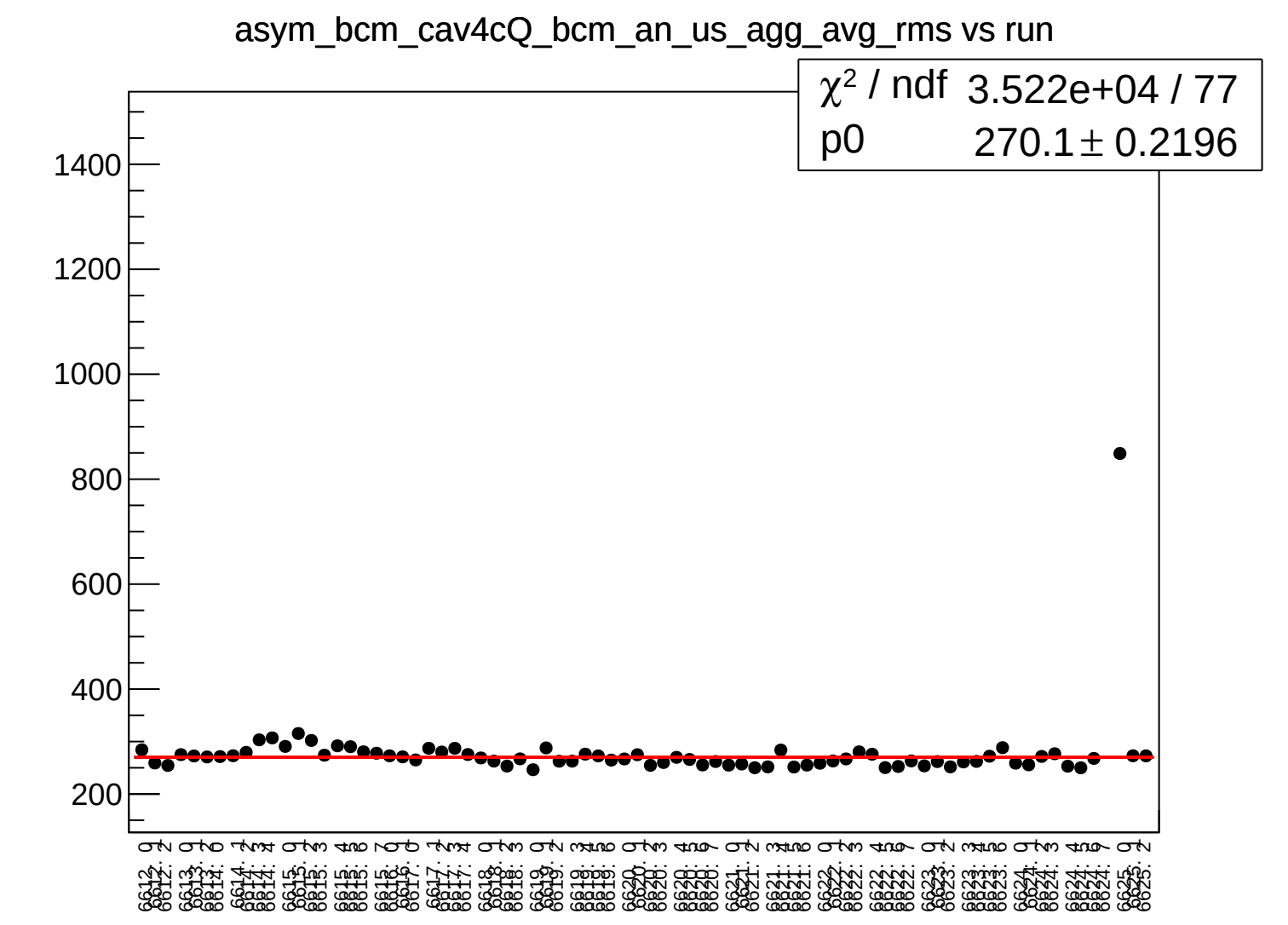

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.535e+04 / 77
p0 257.2 ± 0.2091
1400
1200
1000
800
600
400
200

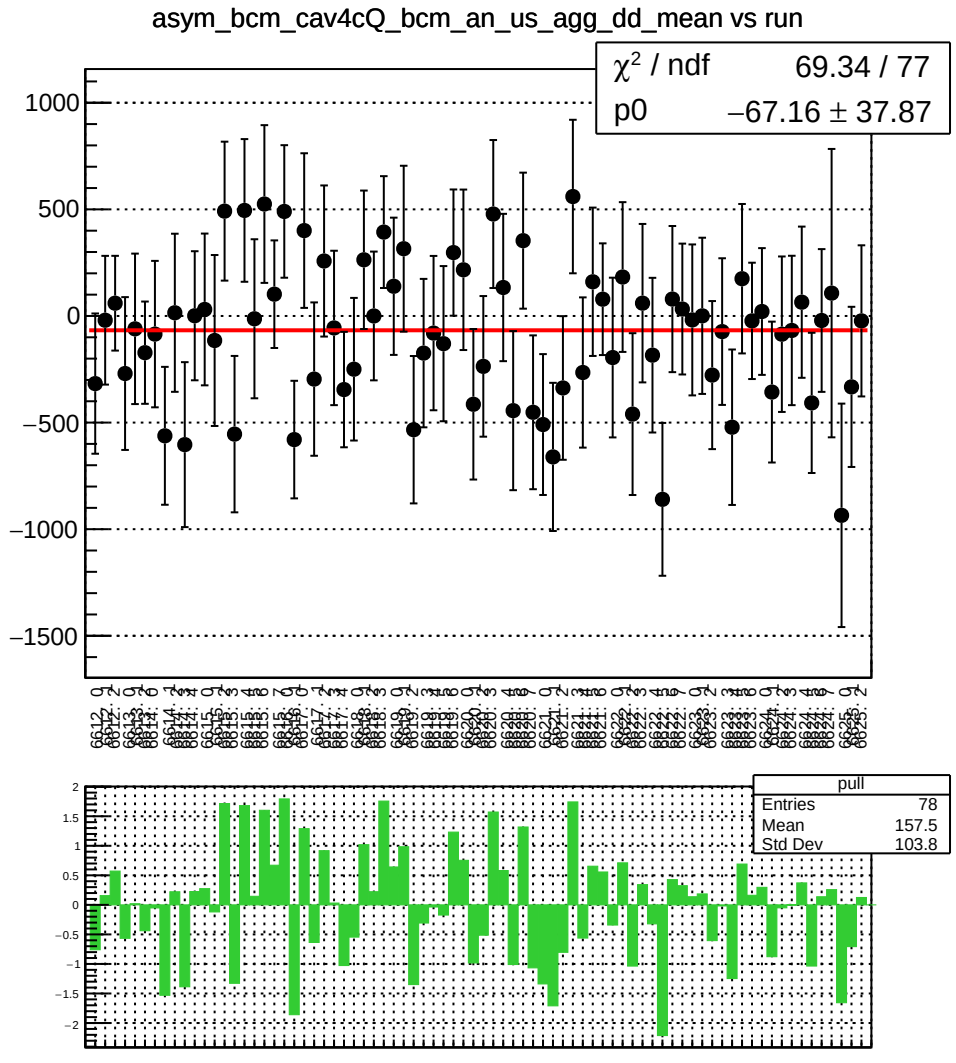

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.79 / 77
p0 29.28 ± 31.25
1000
500
0
−500
−1000
pull
Entries 78
Mean −177.7
Std Dev 224
2
1
0
−1
−2

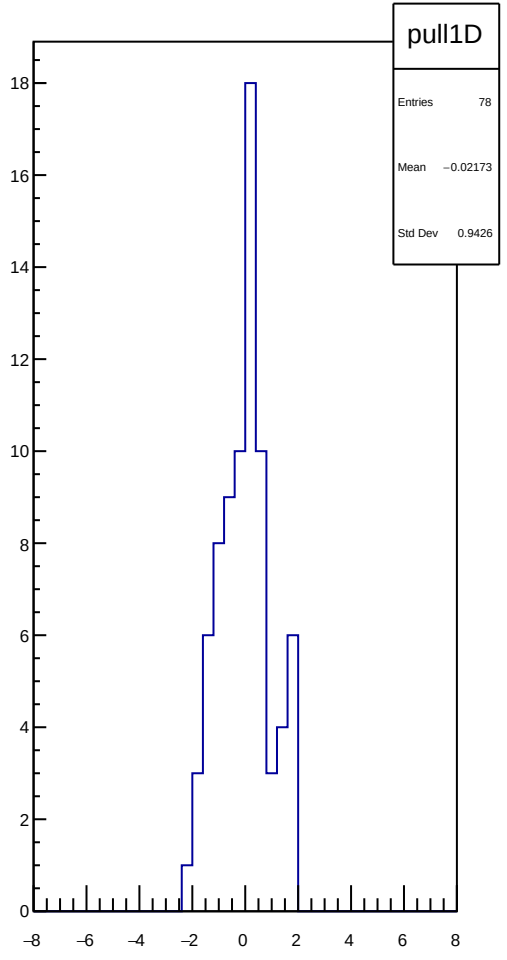

pull1D
Entries 78
Mean −0.006913
Std Dev 0.9922
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

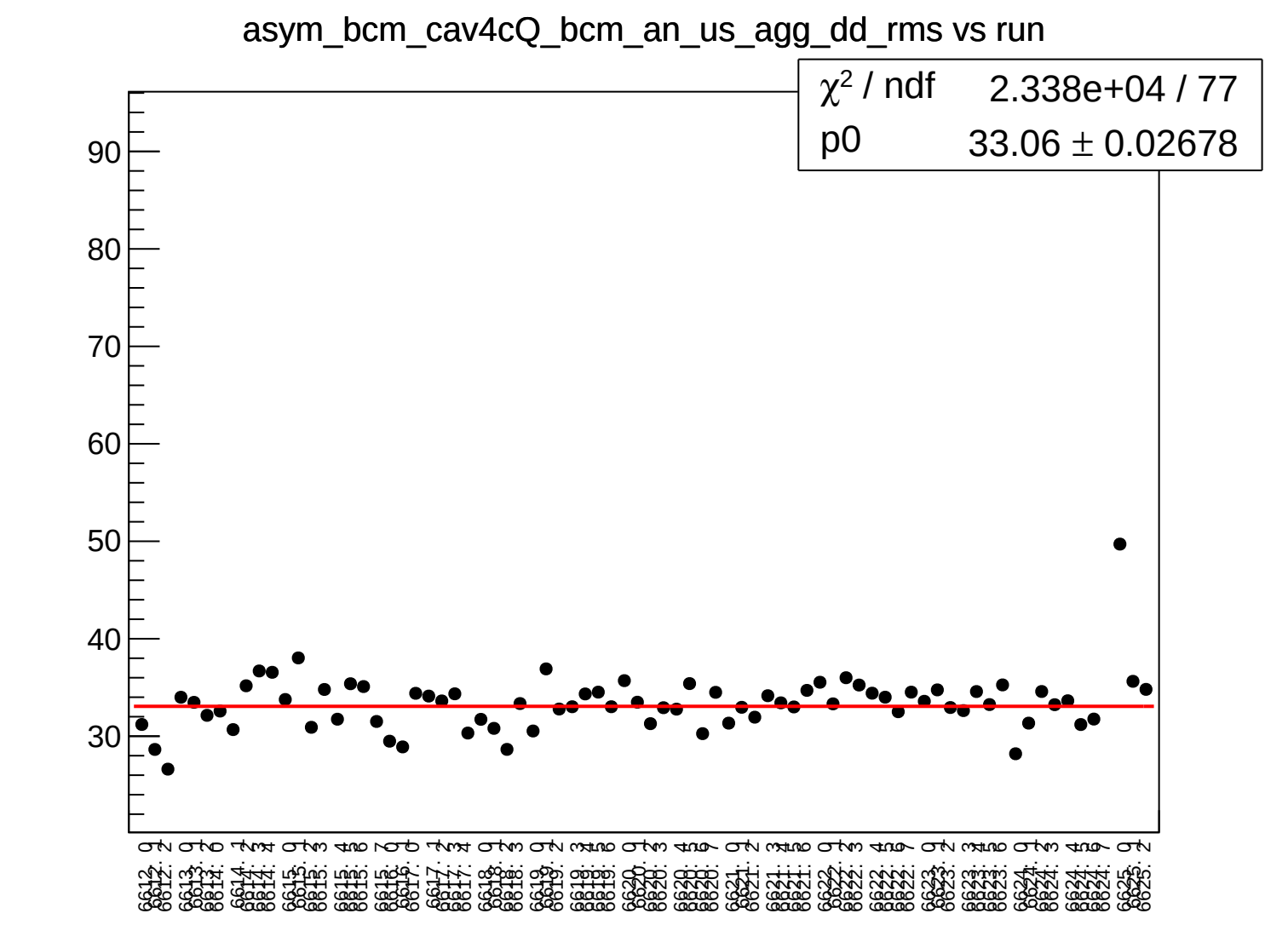

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4434 / 77
p0 27.45 ± 0.0221
32
31
30
29
28
27
26
25
24

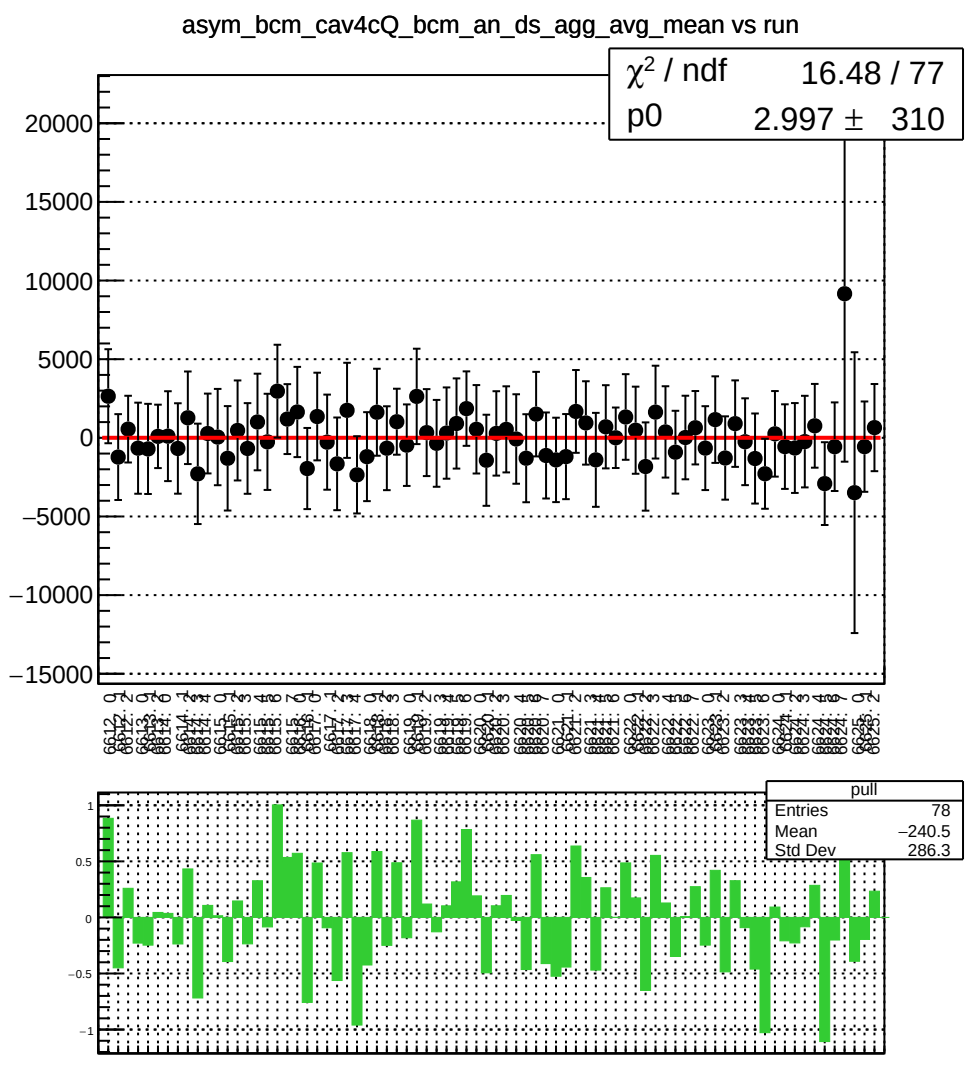

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.25 / 77
p0 23.85 ± 310.6
pull
Entries 78
Mean −200.7
Std Dev 246.4
pull1D
Entries 78
Mean 0.004387
Std Dev 0.4564

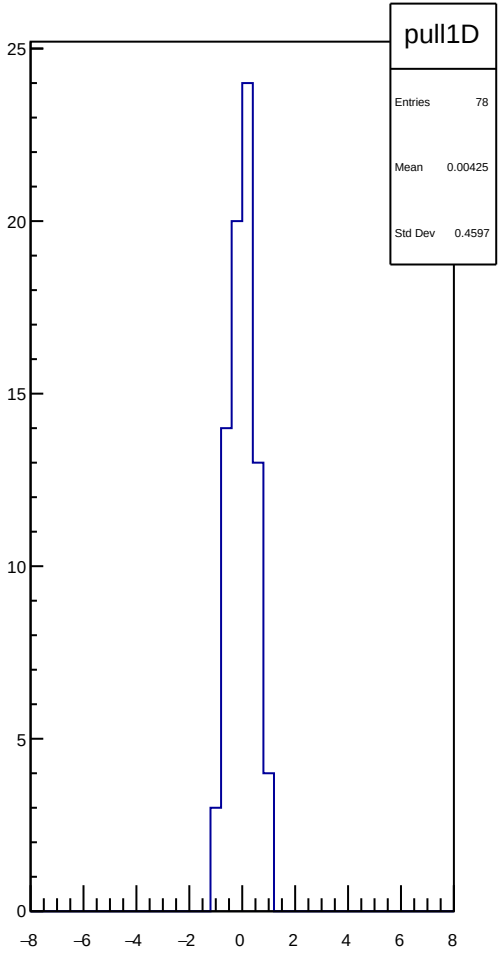

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.522e+04 / 77
p0 270.1 ± 0.2196
1400
1200
1000
800
600
400
200

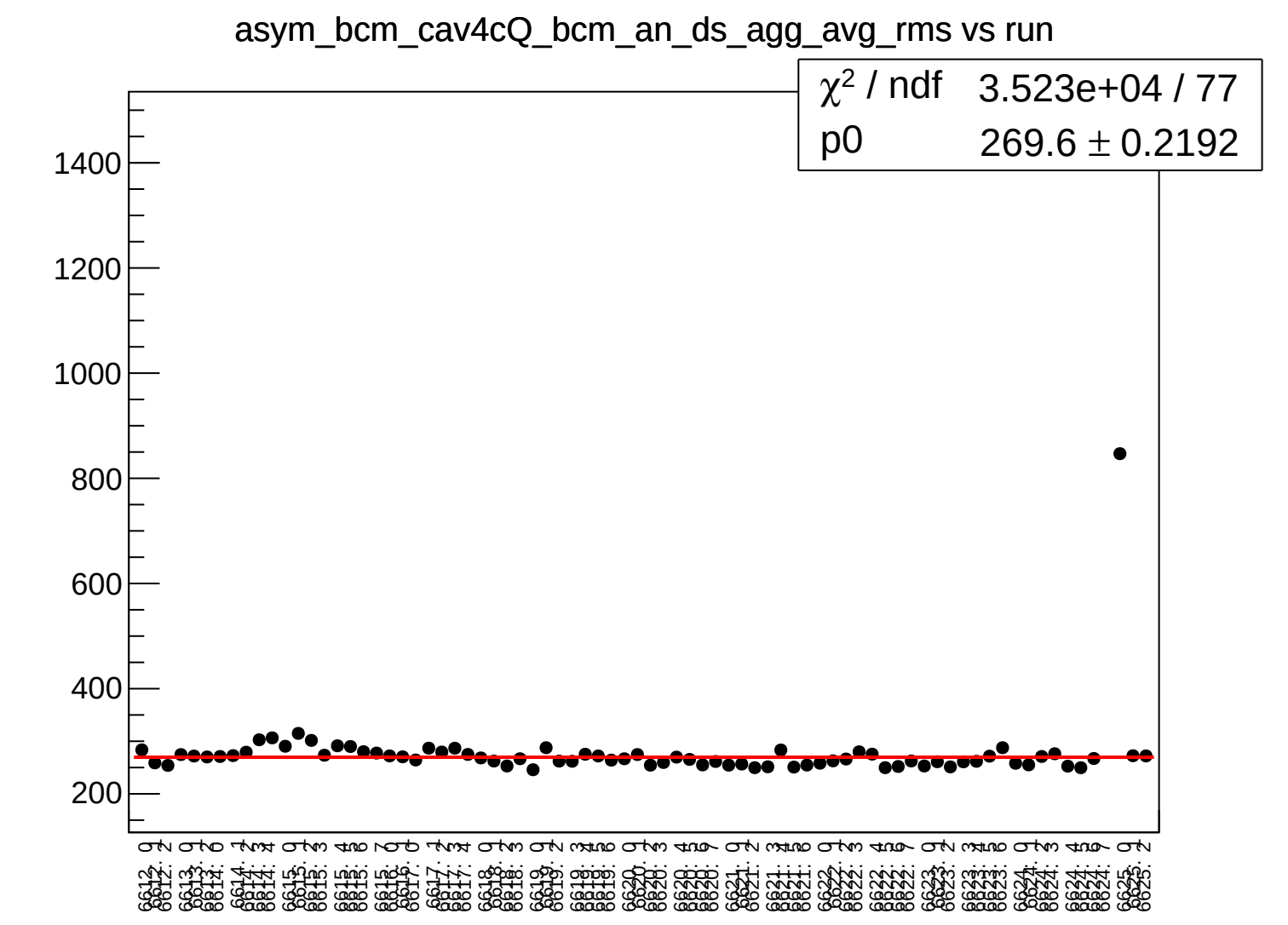

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 69.34 / 77
p0 −67.16 ± 37.87
1000
500
0
−500
−1000
−1500
pull
Entries 78
Mean 157.5
Std Dev 103.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

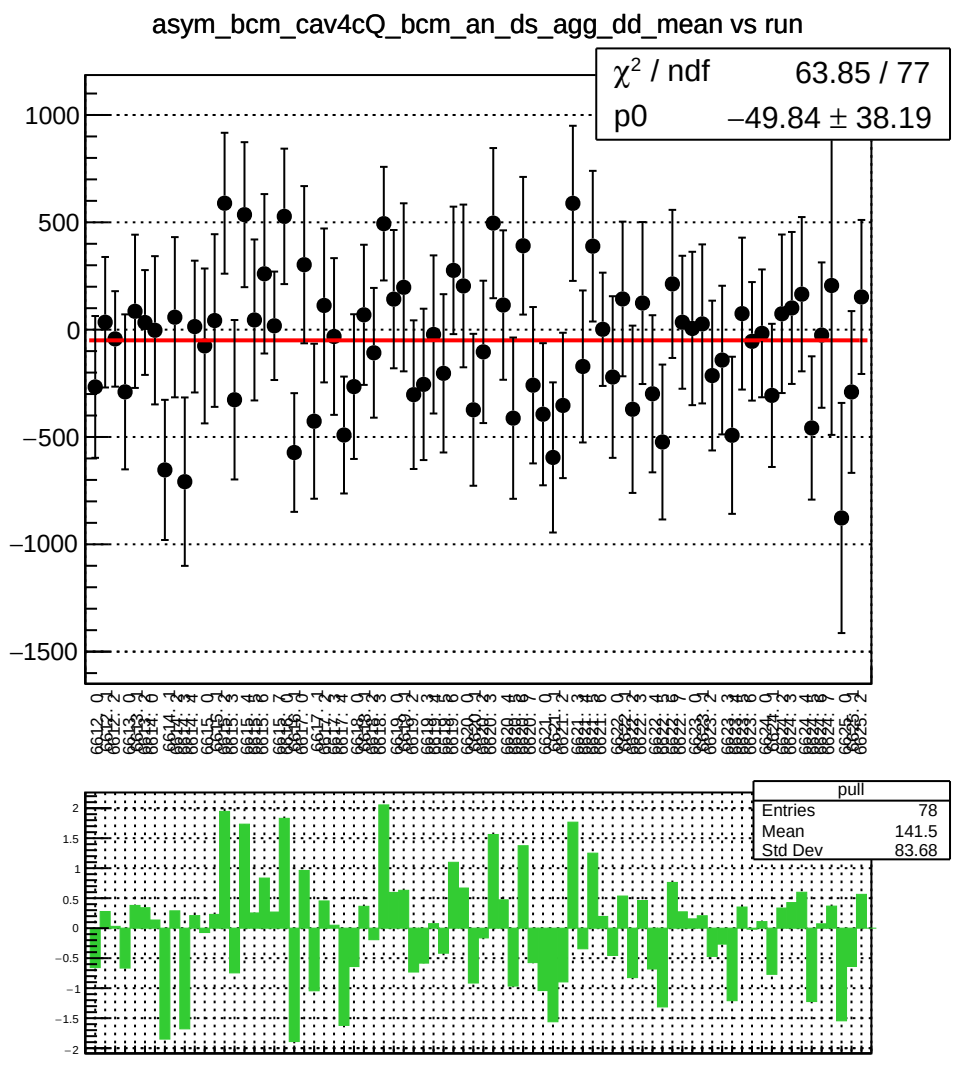

pull1D
Entries 78
Mean −0.02173
Std Dev 0.9426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

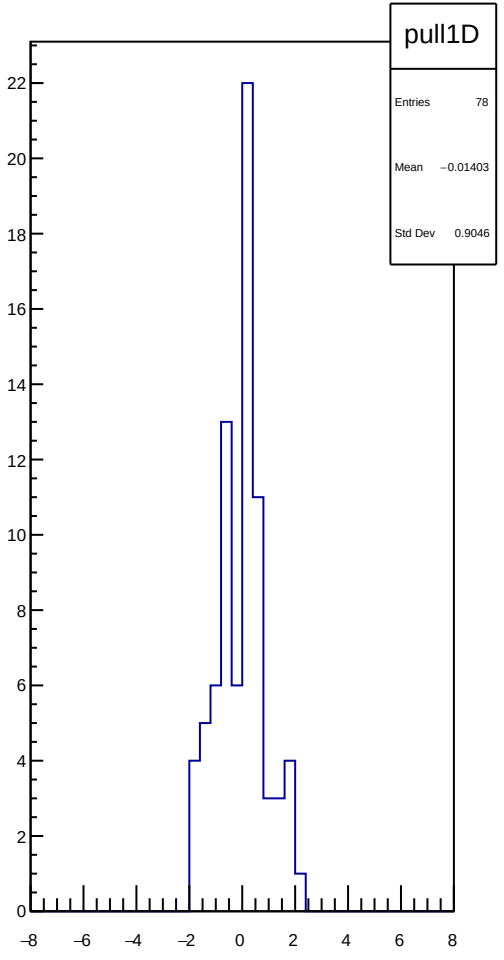

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2.338e+04 / 77
p0 33.06 ± 0.02678
90
80
70
60
50
40
30

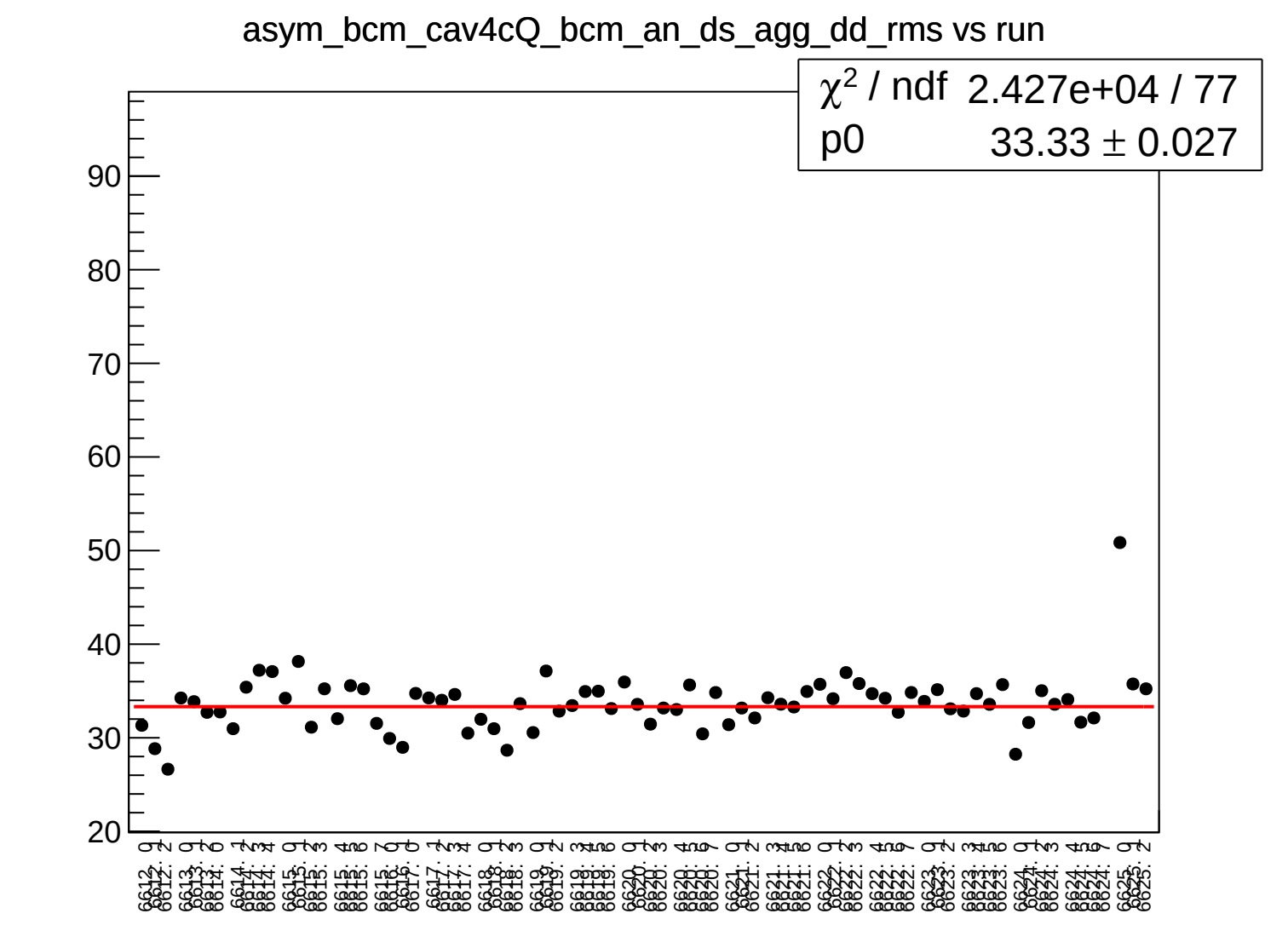

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.48 / 77
p0 2.997 ± 310
pull
Entries 78
Mean −240.5
Std Dev 286.3

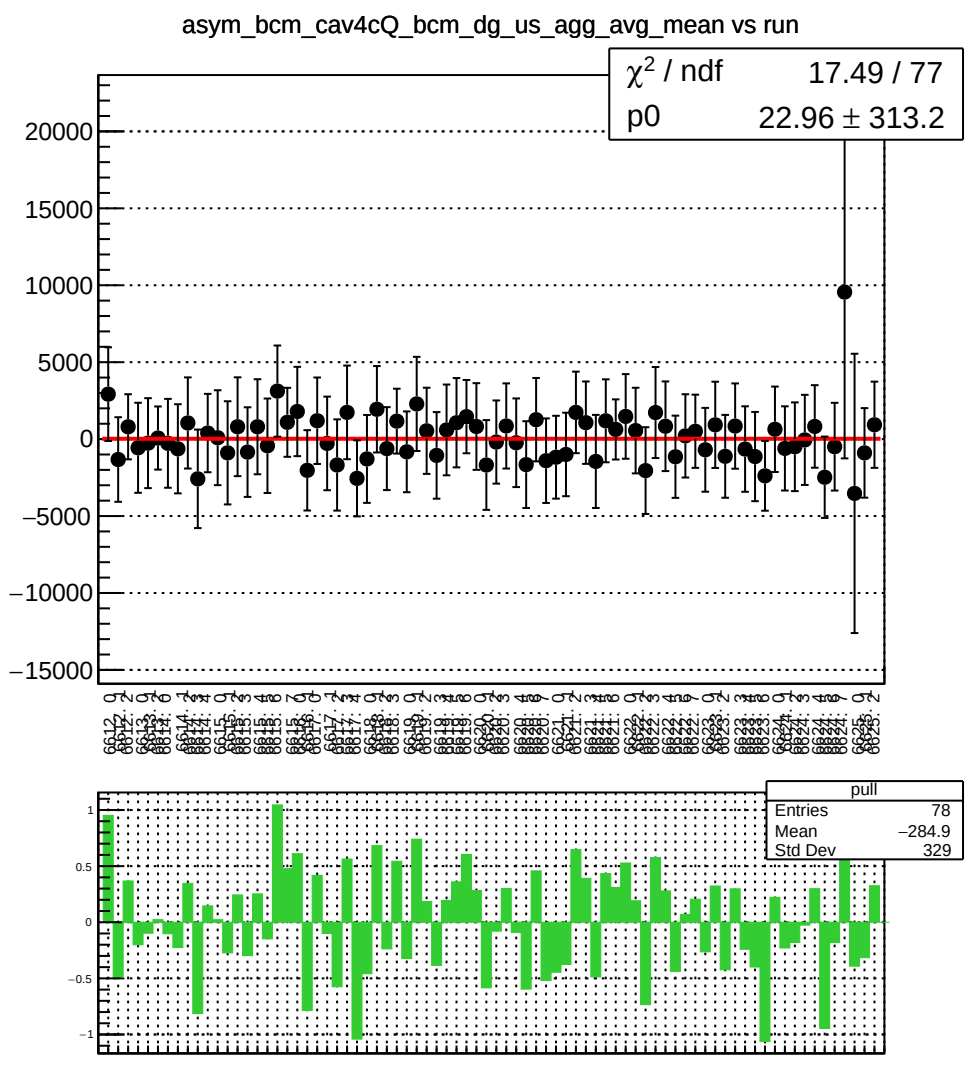

pull1D
Entries 78
Mean 0.00425
Std Dev 0.4597

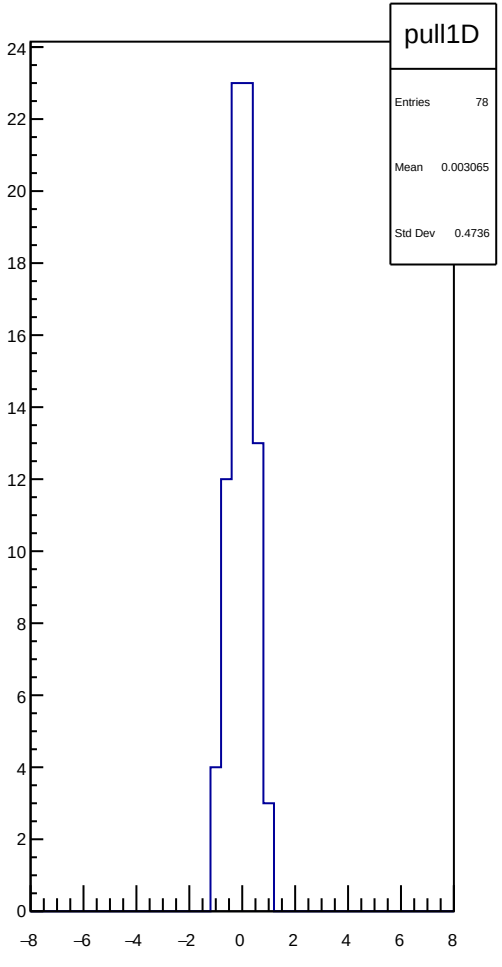

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.523e+04 / 77
p0 269.6 ± 0.2192
1400
1200
1000
800
600
400
200

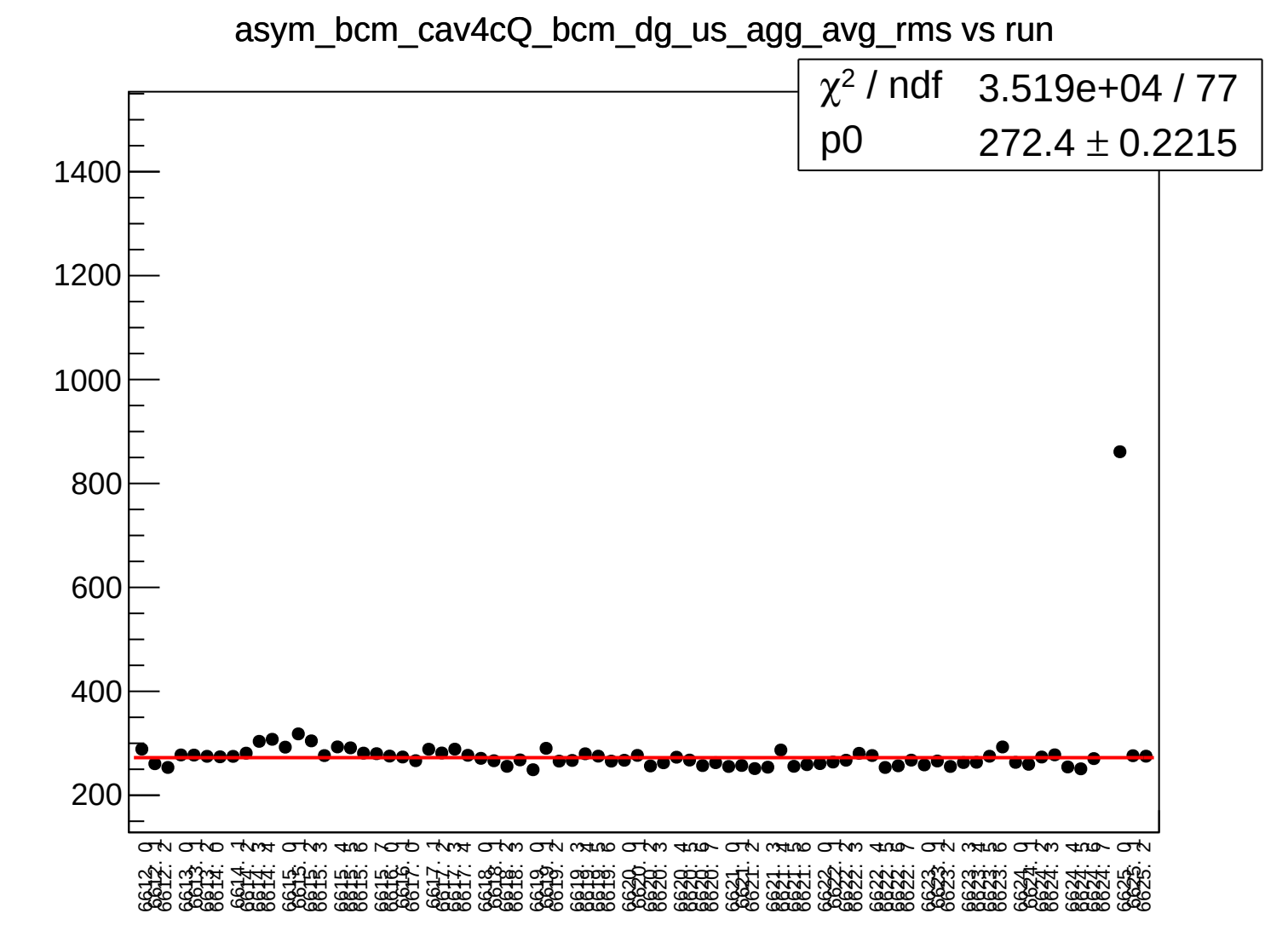

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 63.85 / 77
p0 −49.84 ± 38.19
1000
500
0
−500
−1000
−1500
pull
Entries 78
Mean 141.5
Std Dev 83.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

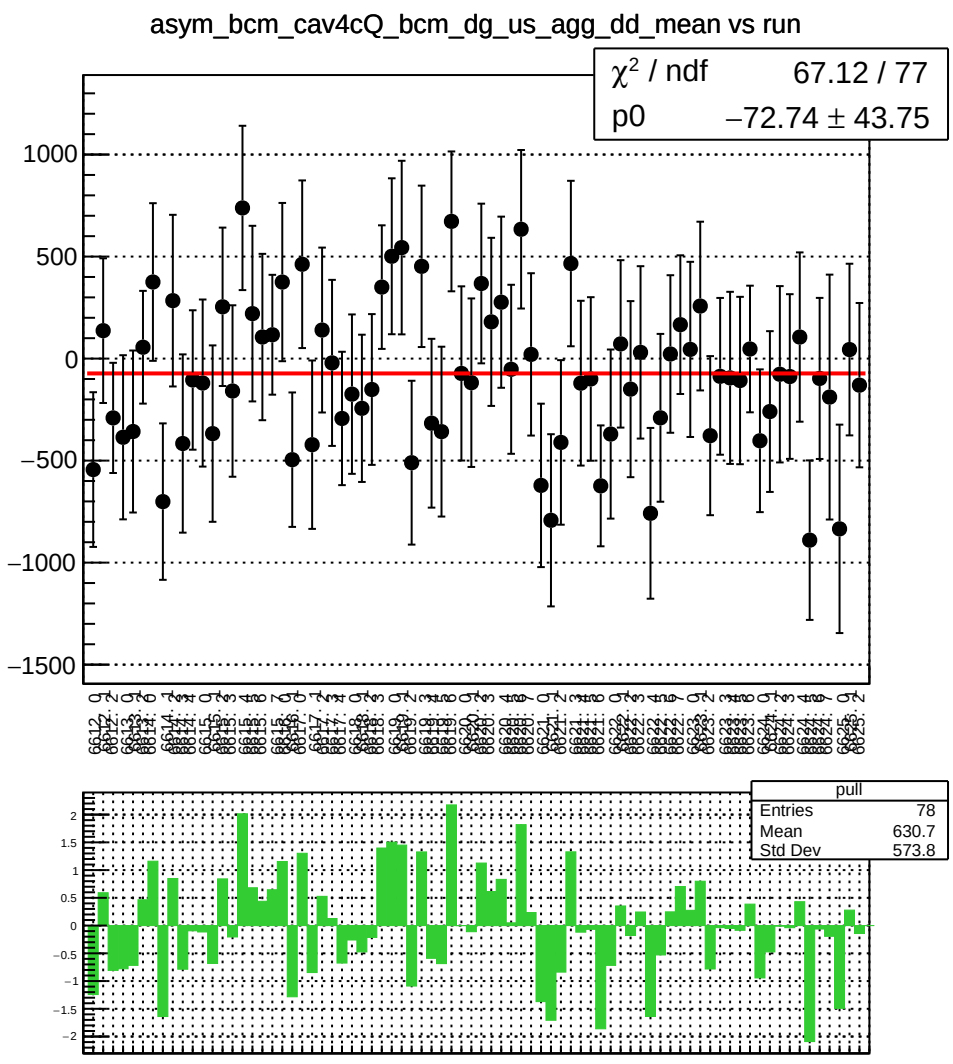

pull1D
Entries 78
Mean −0.01403
Std Dev 0.9046
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

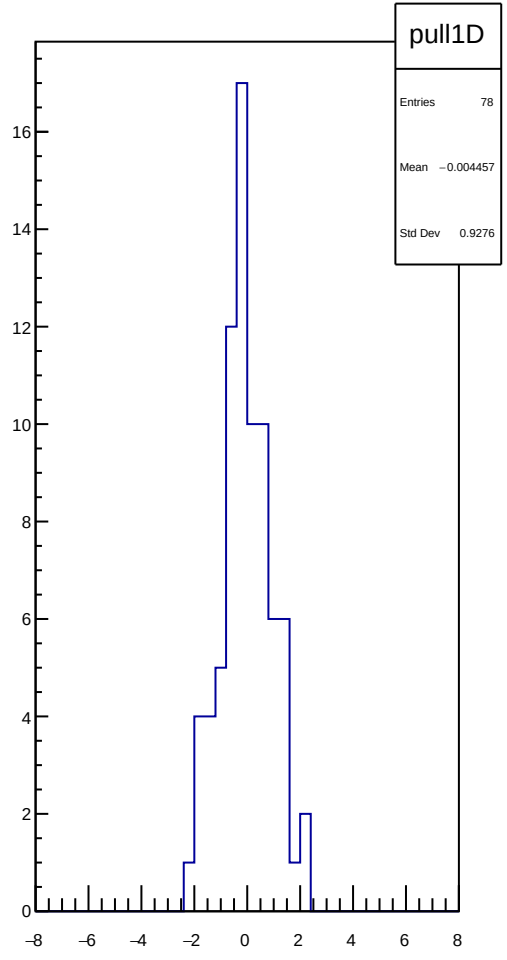

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.427e+04 / 77
p0 33.33 ± 0.027
90
80
70
60
50
40
30
20

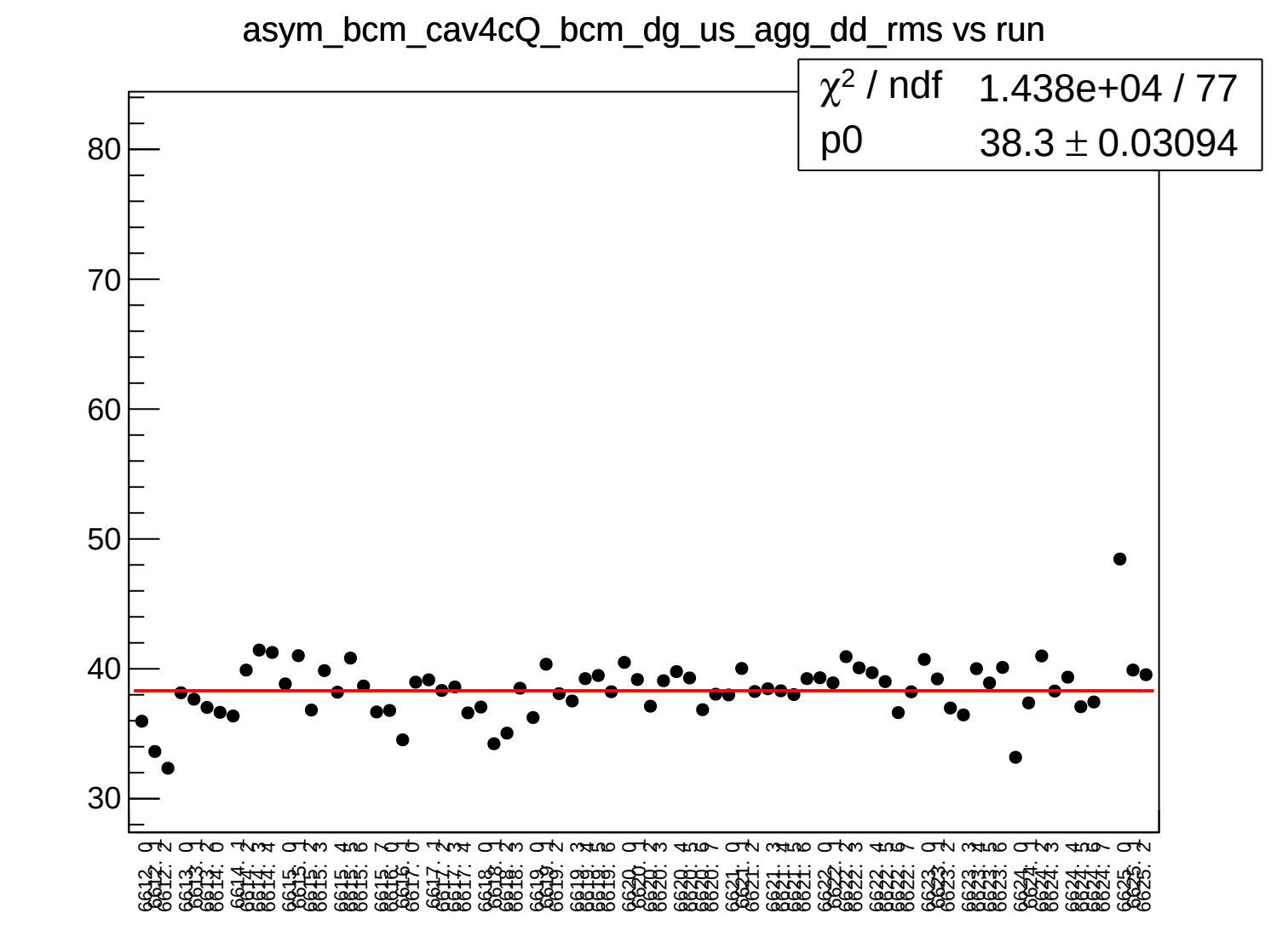

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 17.49 / 77
p0 22.96 ± 313.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean −284.9
Std Dev 329
1
0.5
0
−0.5
−1

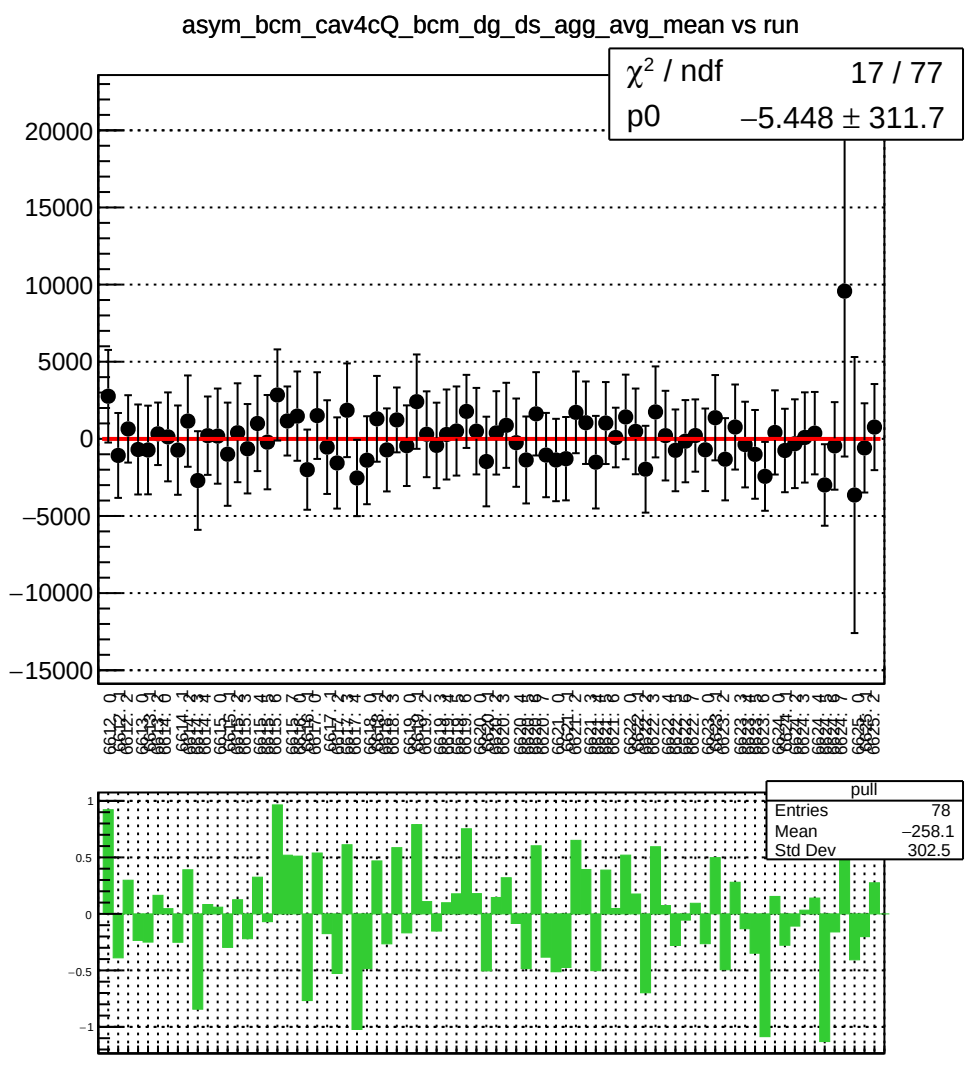

pull1D
Entries 78
Mean 0.003065
Std Dev 0.4736
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

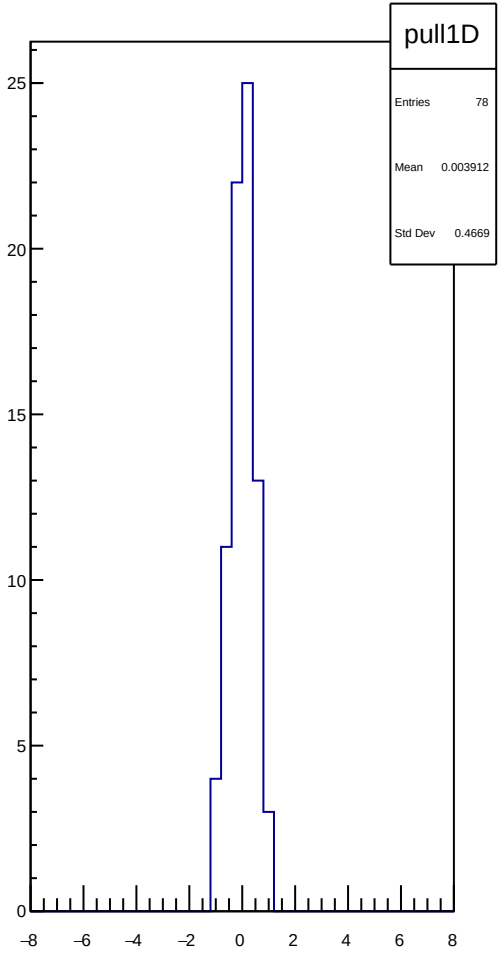

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.519e+04 / 77
p0 272.4 ± 0.2215
1400
1200
1000
800
600
400
200

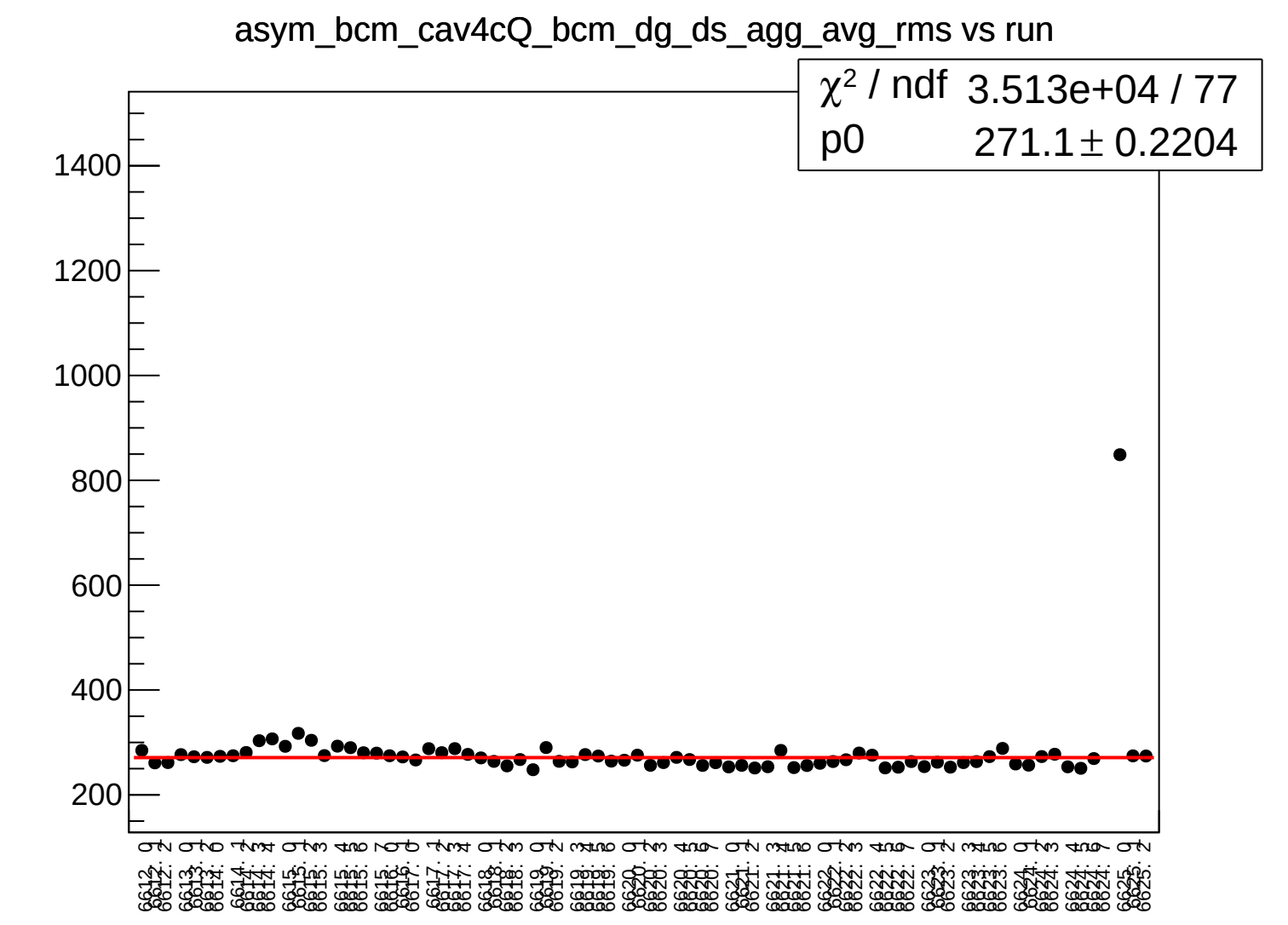

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 67.12 / 77
p0 −72.74 ± 43.75
1000
500
0
−500
−1000
−1500
pull
Entries 78
Mean 630.7
Std Dev 573.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

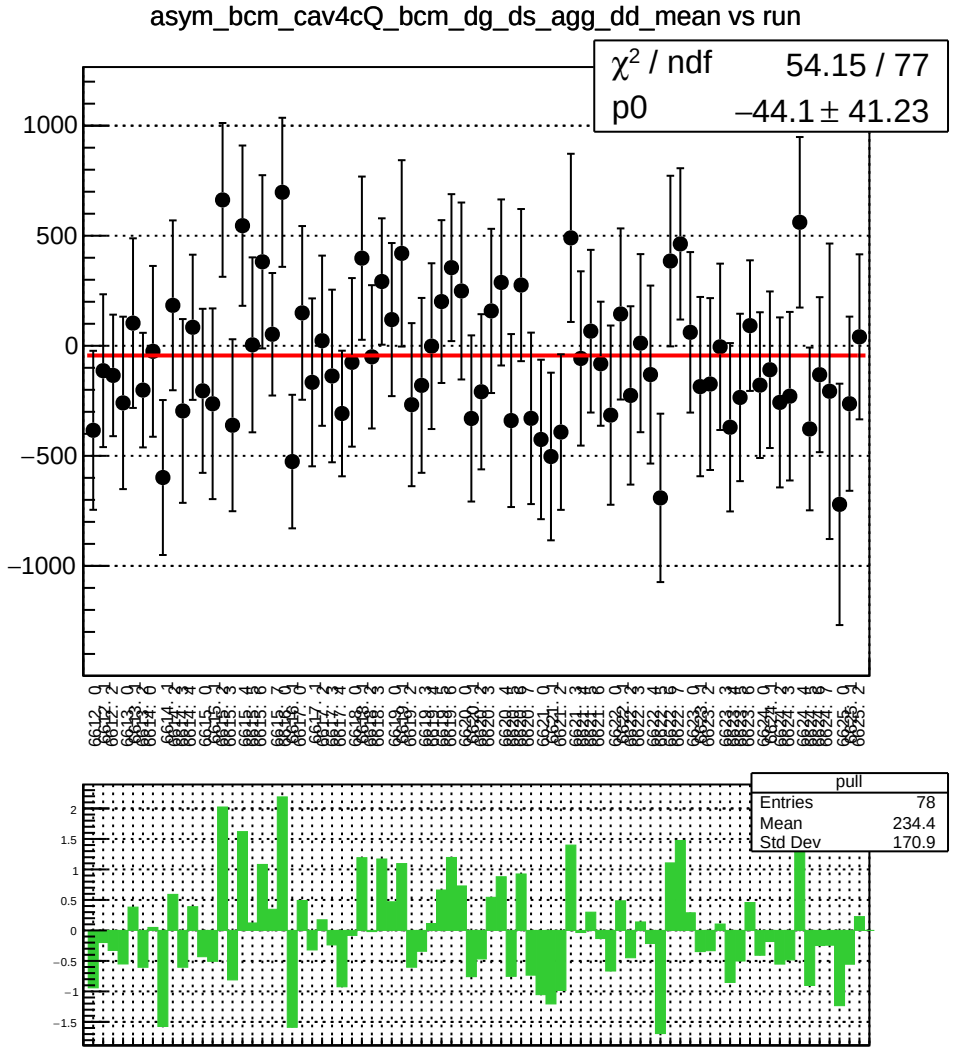

pull1D
Entries 78
Mean −0.004457
Std Dev 0.9276
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

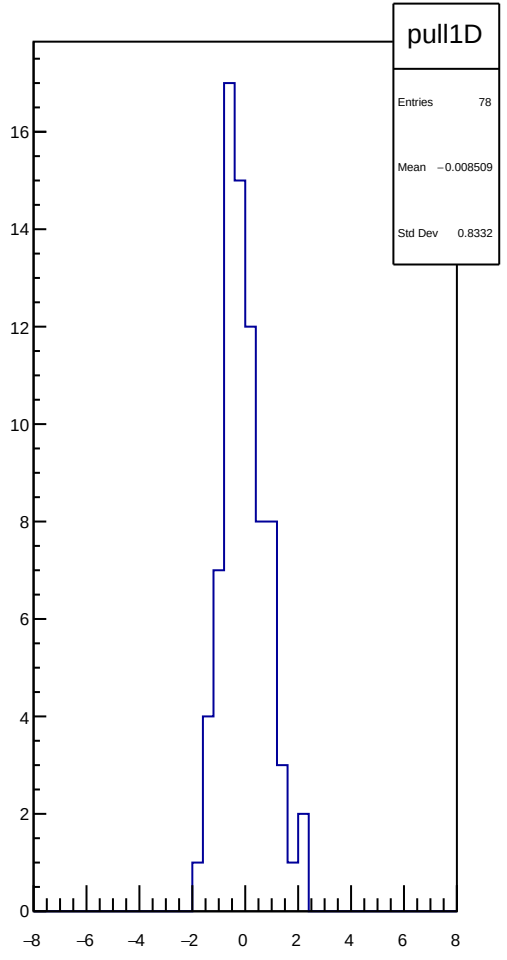

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1.438e+04 / 77
p0 38.3 ± 0.03094
80
70
60
50
40
30

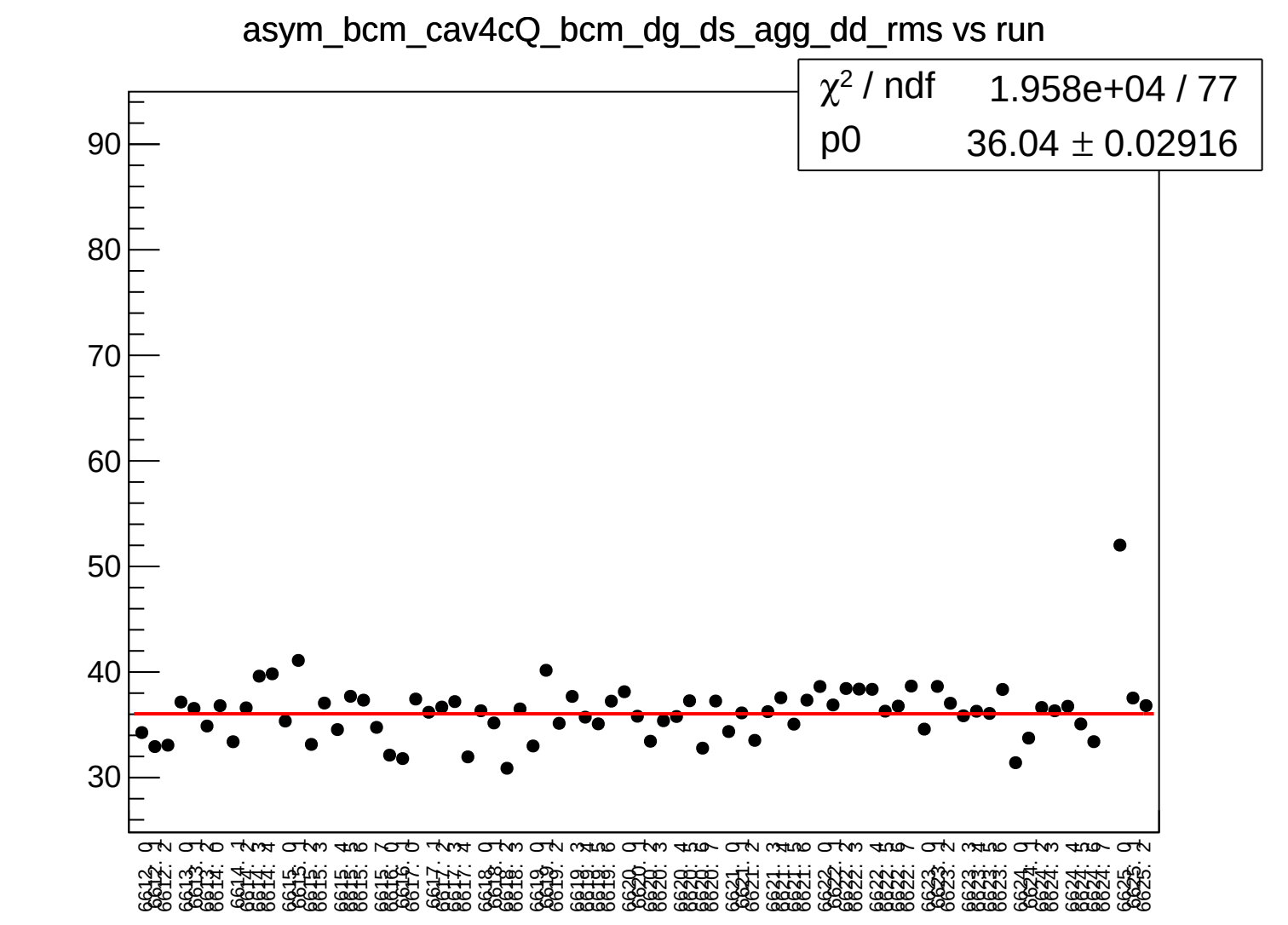

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 17 / 77
p0 −5.448 ± 311.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean −258.1
Std Dev 302.5
1
0.5
0
−0.5
−1

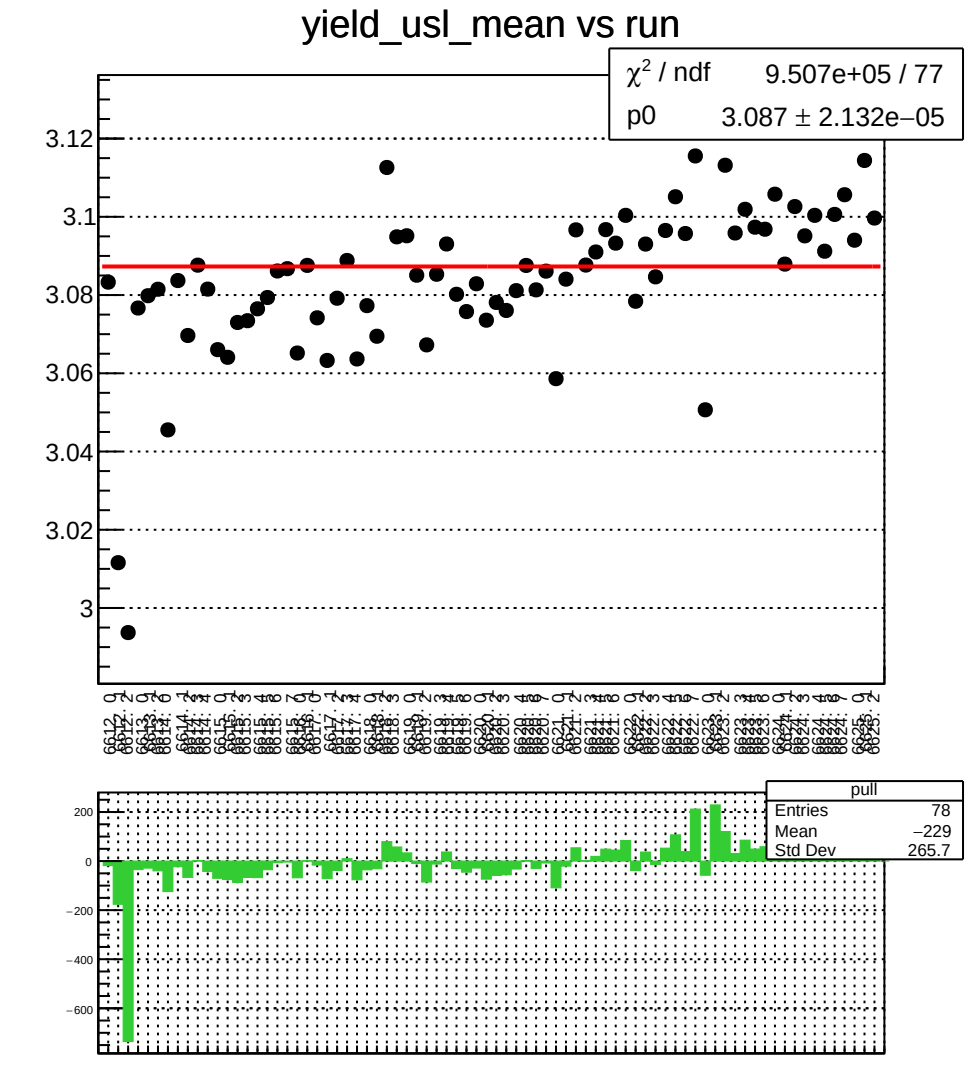

pull1D
Entries 78
Mean 0.003912
Std Dev 0.4669
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

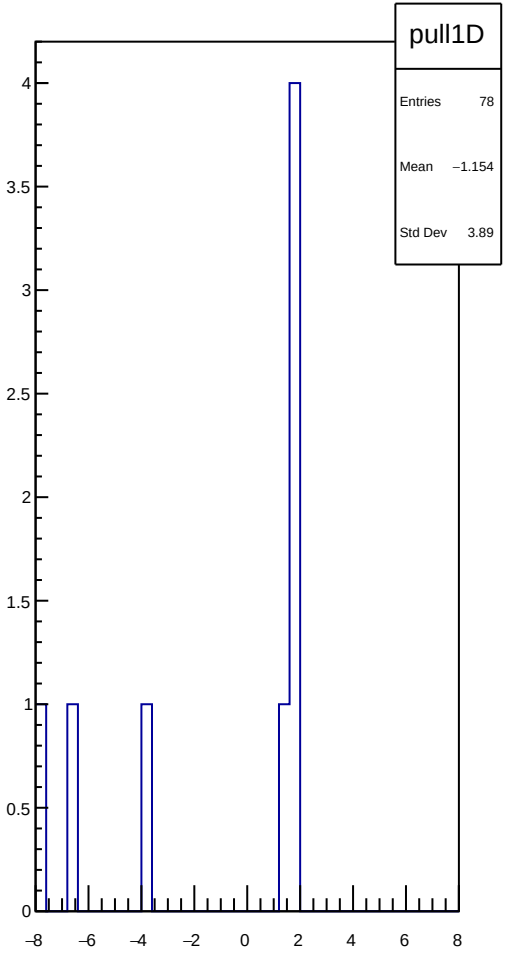

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.513e+04 / 77
p0 271.1 ± 0.2204
1400
1200
1000
800
600
400
200

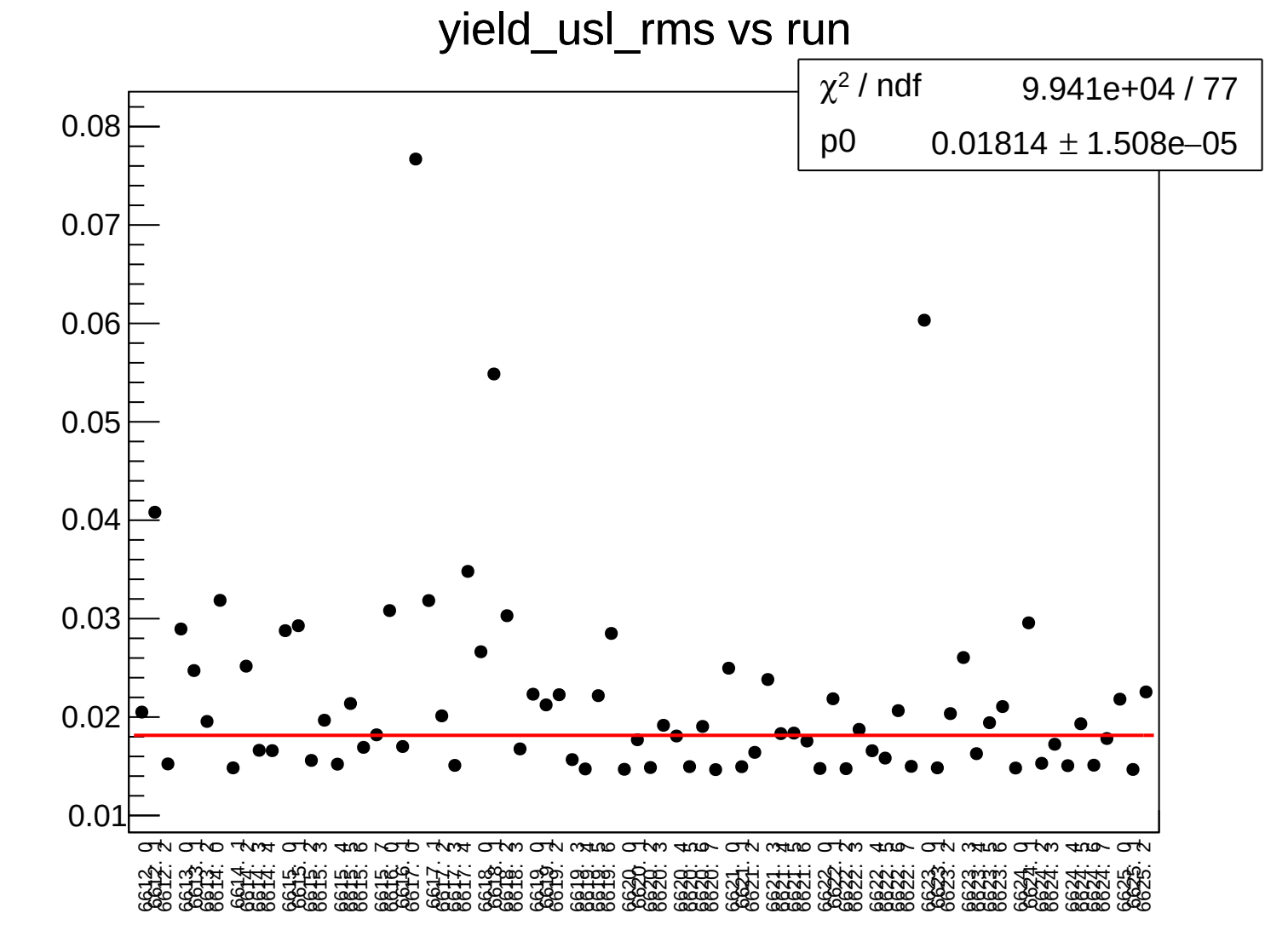

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 54.15 / 77
p0 −44.1 ± 41.23
1000
500
0
−500
−1000
pull
Entries 78
Mean 234.4
Std Dev 170.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

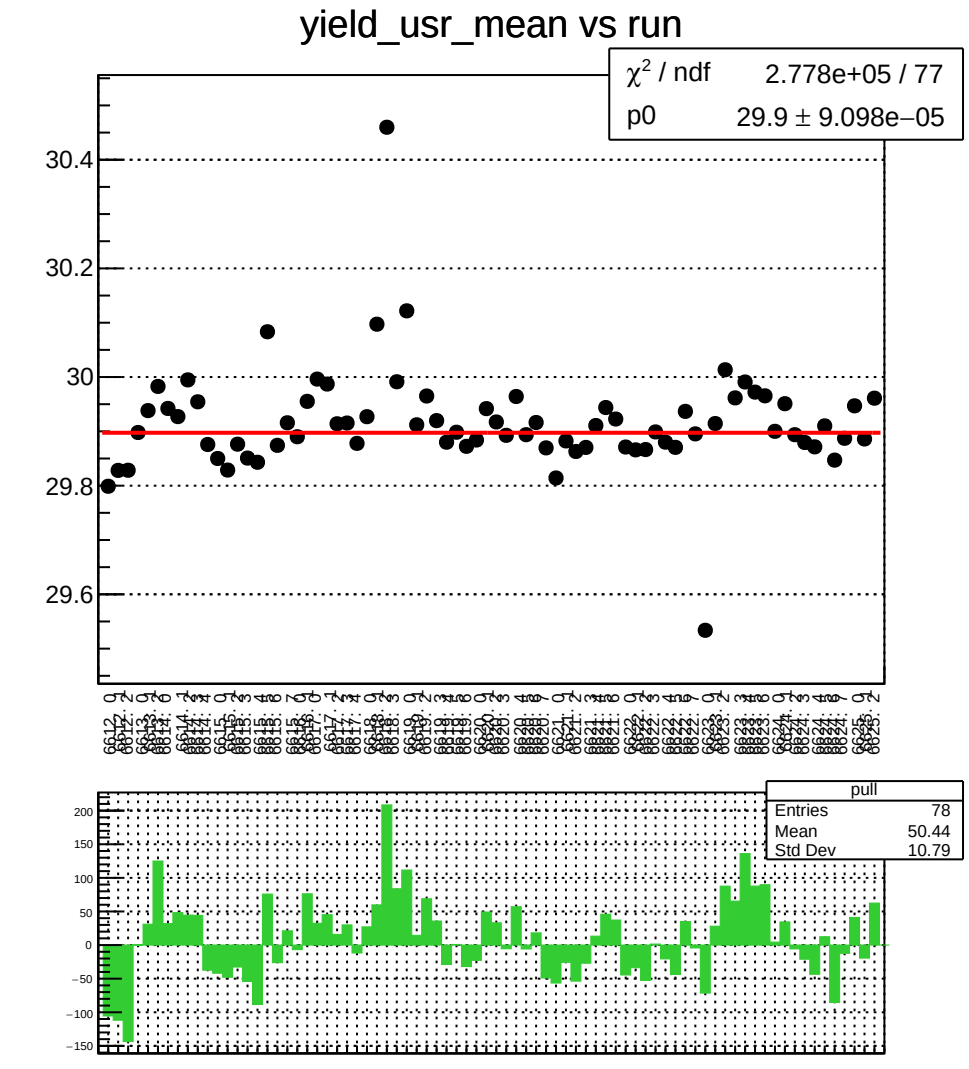

pull1D
Entries 78
Mean −0.008509
Std Dev 0.8332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

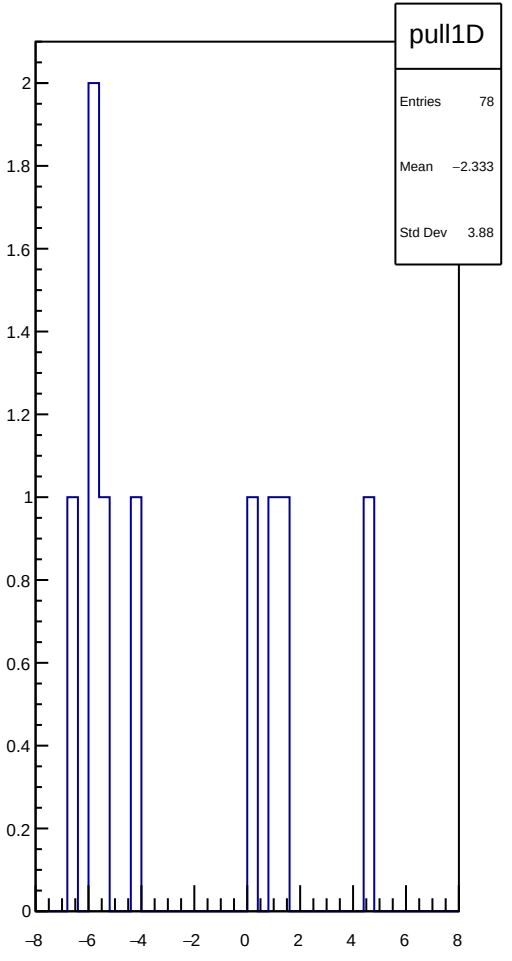

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.958e+04 / 77
p0 36.04 ± 0.02916
90
80
70
60
50
40
30

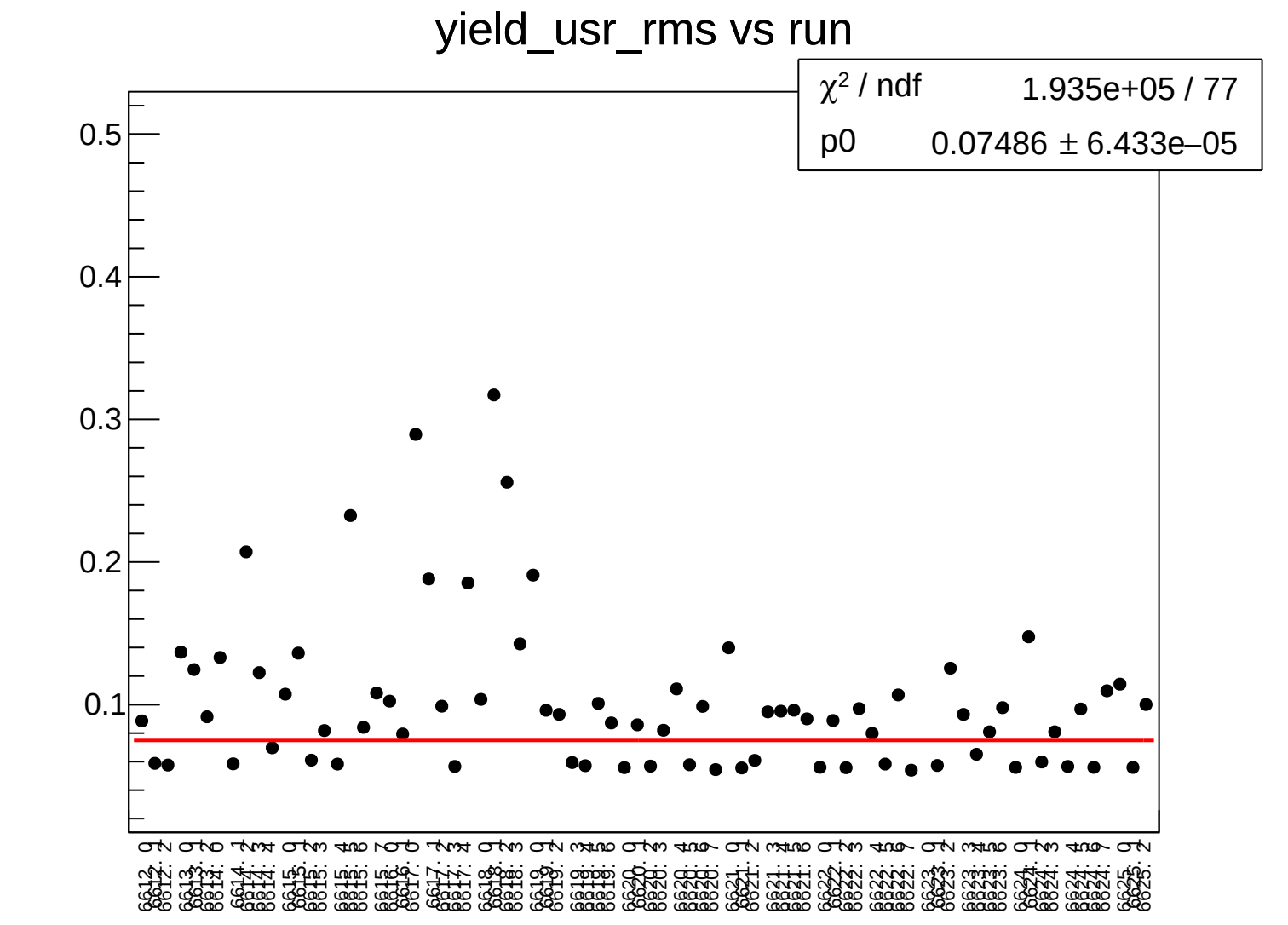

yield_usl_mean vs run
χ² / ndf 9.507e+05 / 77
p0 3.087 ± 2.132e−05
3.12
3.1
3.08
3.06
3.04
3.02
3
pull
Entries 78
Mean −229
Std Dev 265.7
200
0
−200
−400
−600

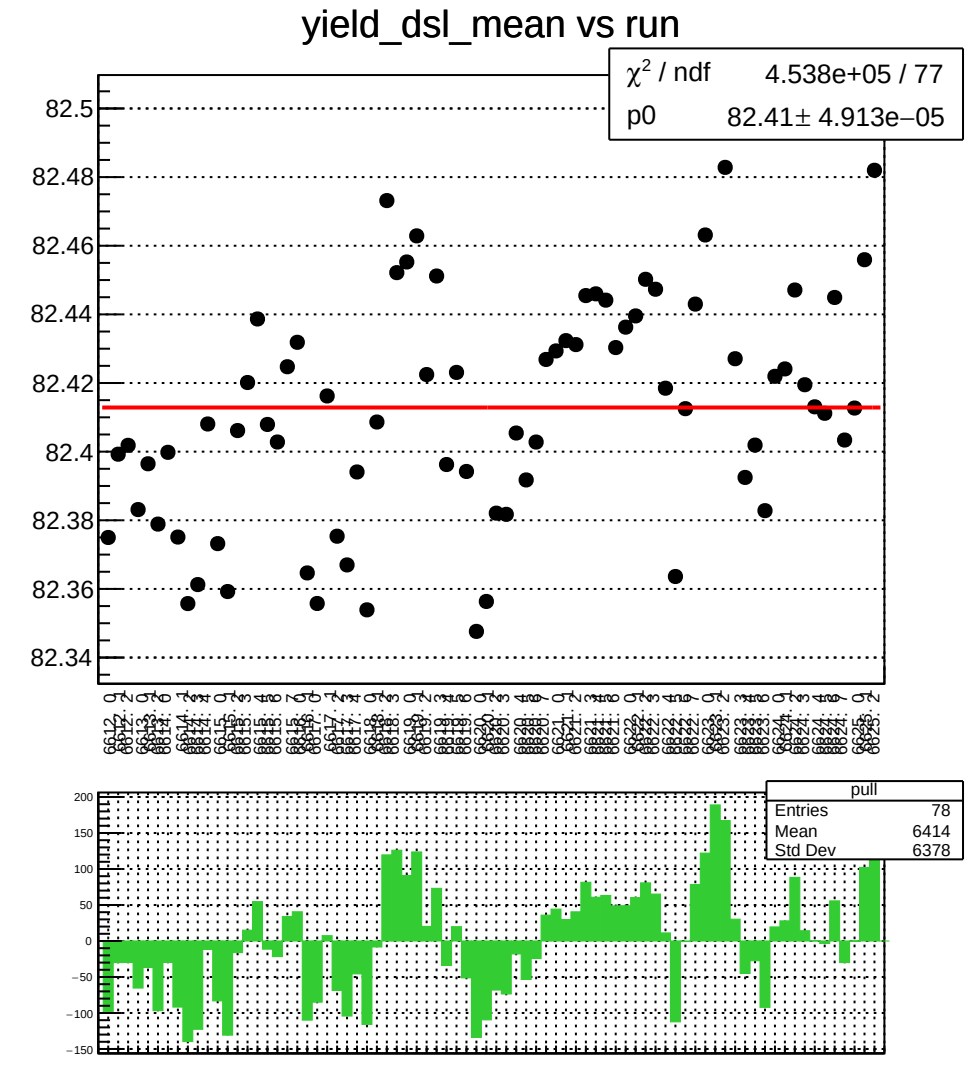

pull1D
Entries 78
Mean −1.154
Std Dev 3.89
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

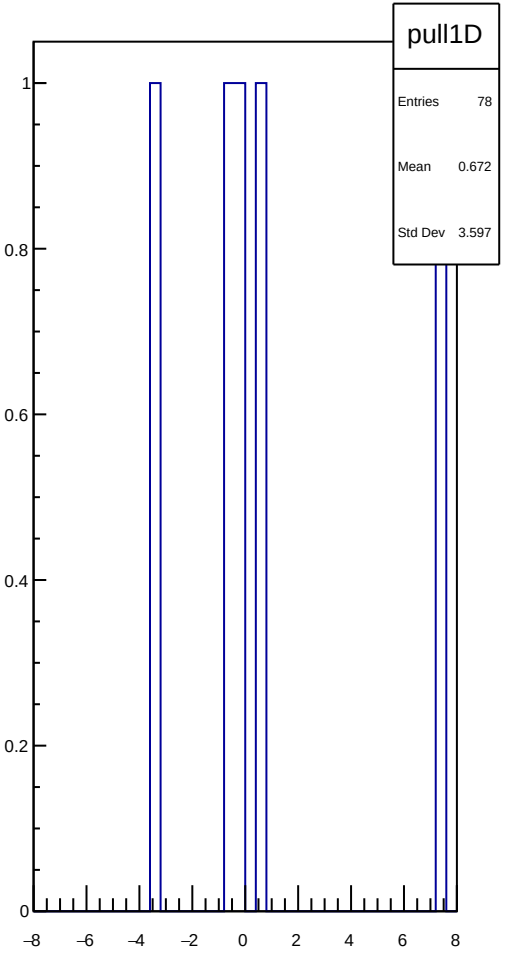

yield_usl_rms vs run
χ² / ndf 9.941e+04 / 77
p0 0.01814 ± 1.508e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

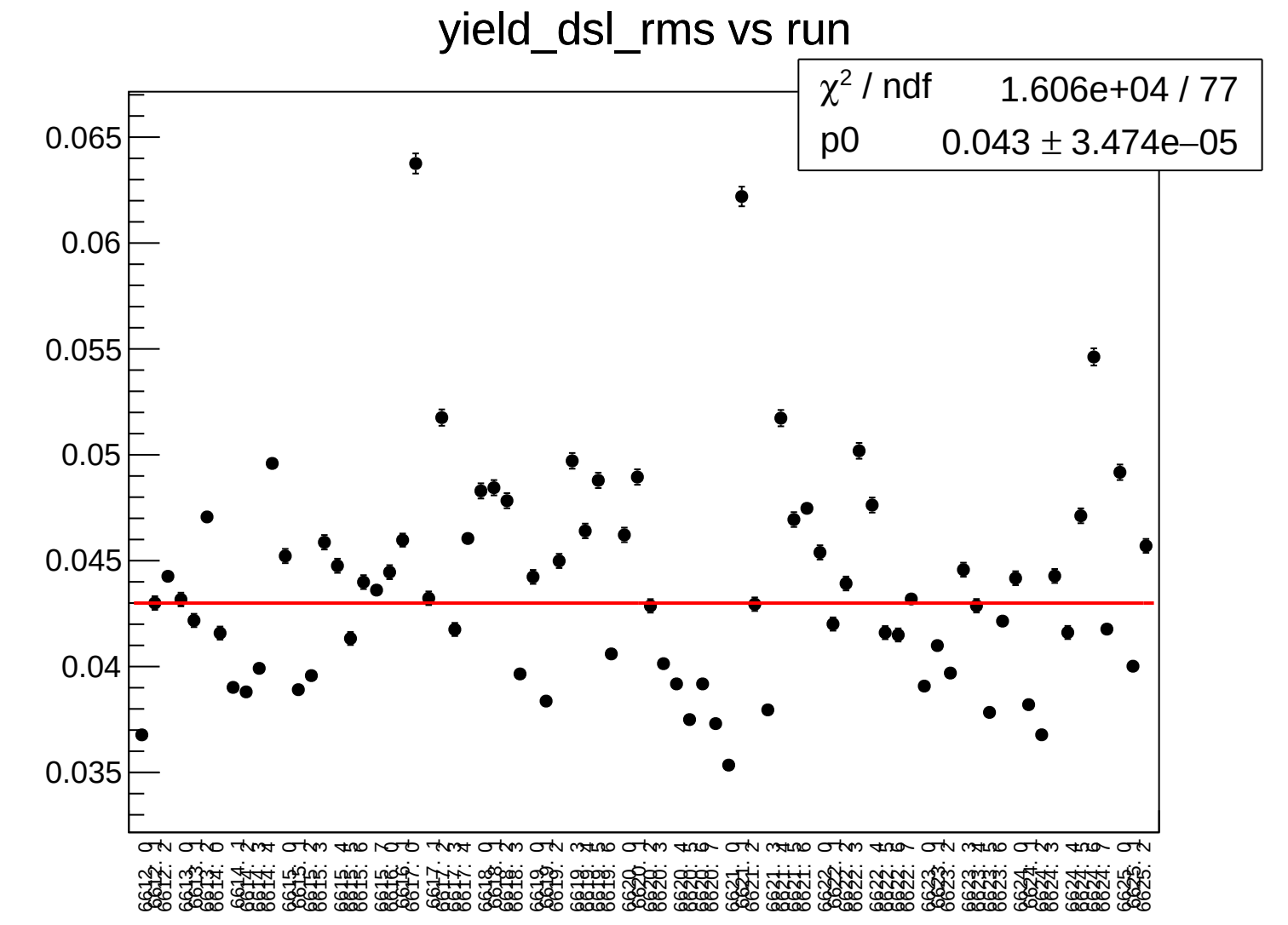

yield_usr_mean vs run
χ² / ndf 2.778e+05 / 77
p0 29.9 ± 9.098e−05
30.4
30.2
30
29.8
29.6
pull
Entries 78
Mean 50.44
Std Dev 10.79
200
150
100
50
0
−50
−100
−150

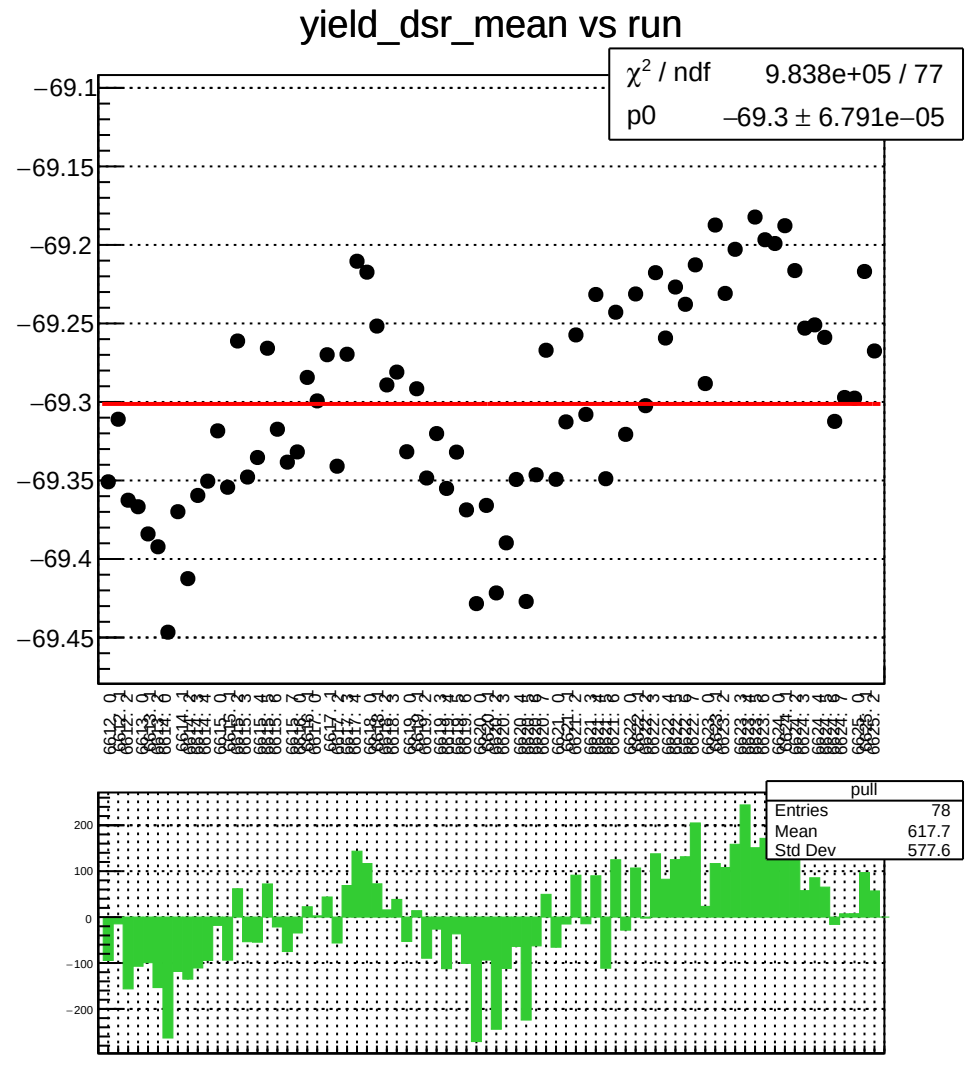

pull1D
Entries 78
Mean −2.333
Std Dev 3.88
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

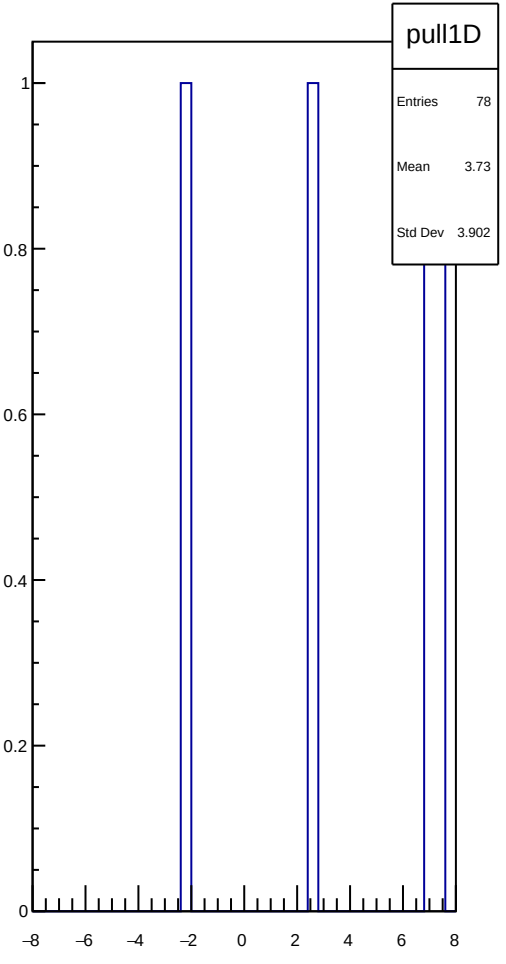

yield_usr_rms vs run
χ² / ndf 1.935e+05 / 77
p0 0.07486 ± 6.433e–05
0.5
0.4
0.3
0.2
0.1

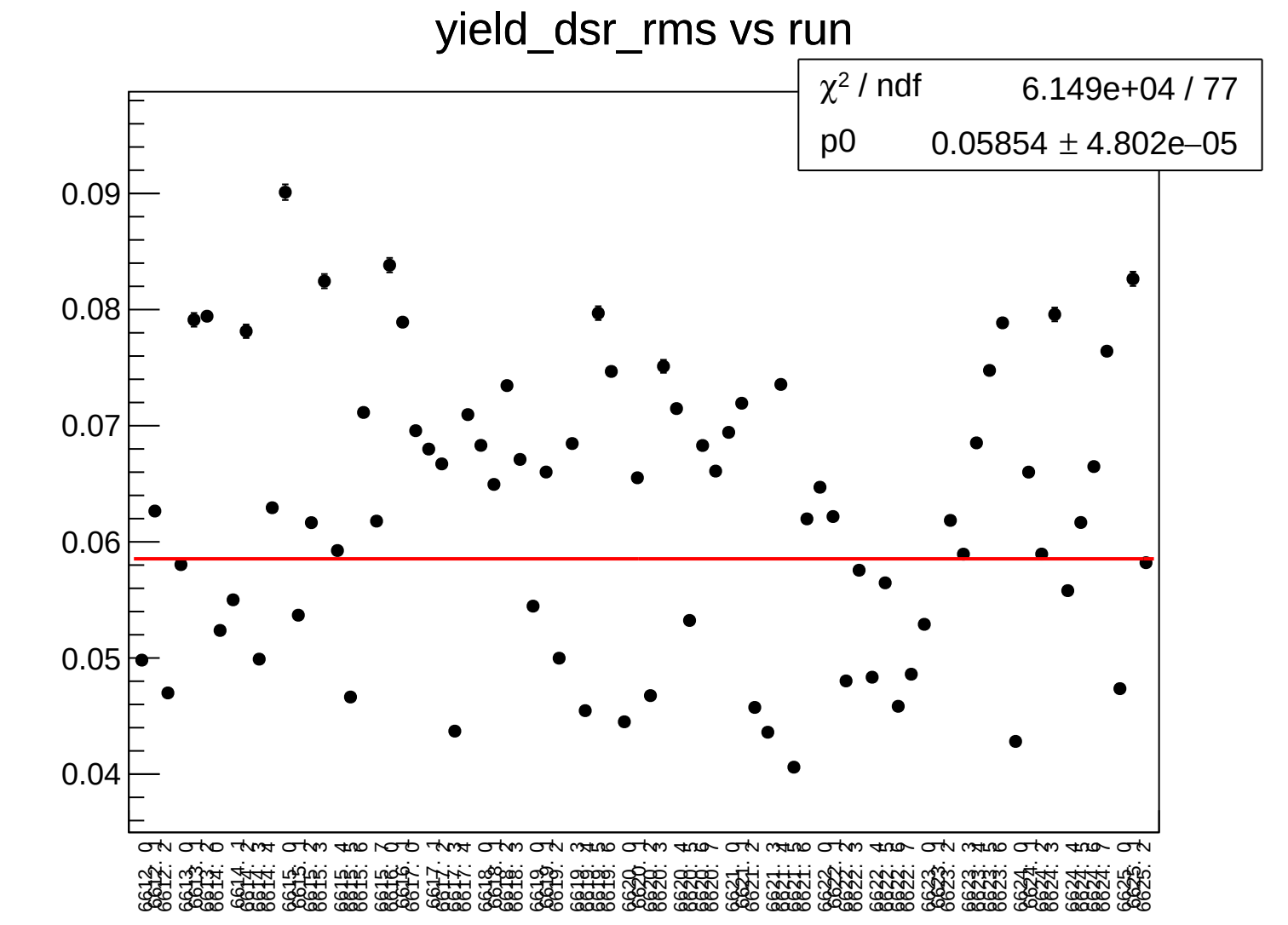

yield_dsl_mean vs run
χ² / ndf 4.538e+05 / 77
p0 82.41± 4.913e−05
82.5
82.48
82.46
82.44
82.42
82.4
82.38
82.36
82.34
pull
Entries 78
Mean 6414
Std Dev 6378
200
150
100
50
0
−50
−100
−150

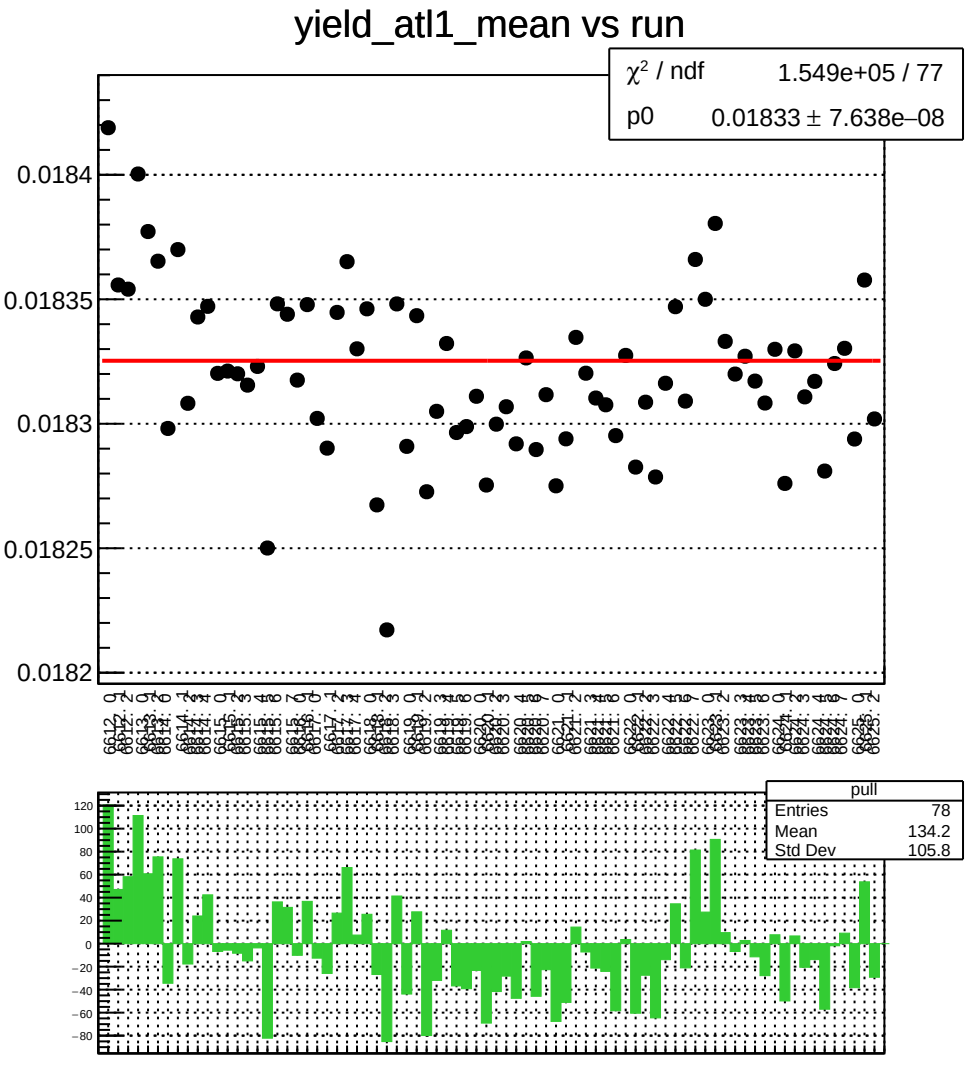

pull1D
Entries 78
Mean 0.672
Std Dev 3.597
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

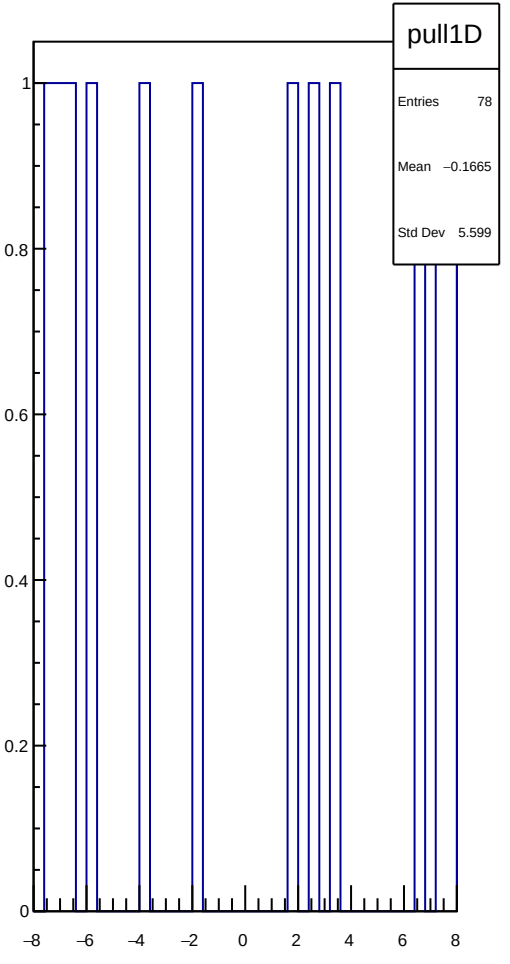

yield_dsl_rms vs run
χ^2 / ndf 1.606e+04 / 77
p0 0.043 ± 3.474e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

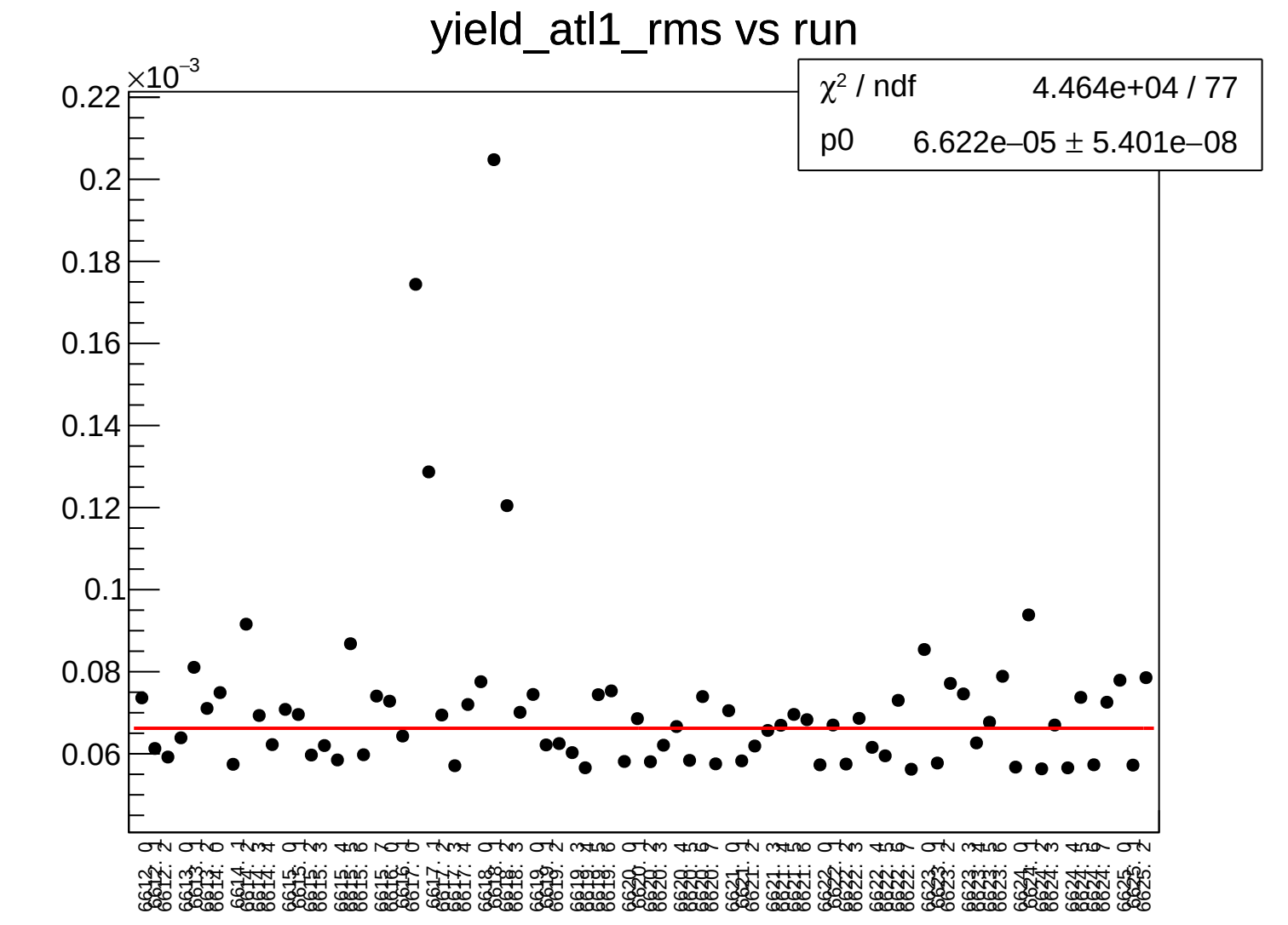

yield_dsr_mean vs run
χ² / ndf 9.838e+05 / 77
p0 −69.3 ± 6.791e−05
−69.1
−69.15
−69.2
−69.25
−69.3
−69.35
−69.4
−69.45
pull
Entries 78
Mean 617.7
Std Dev 577.6
200
100
0
−100
−200

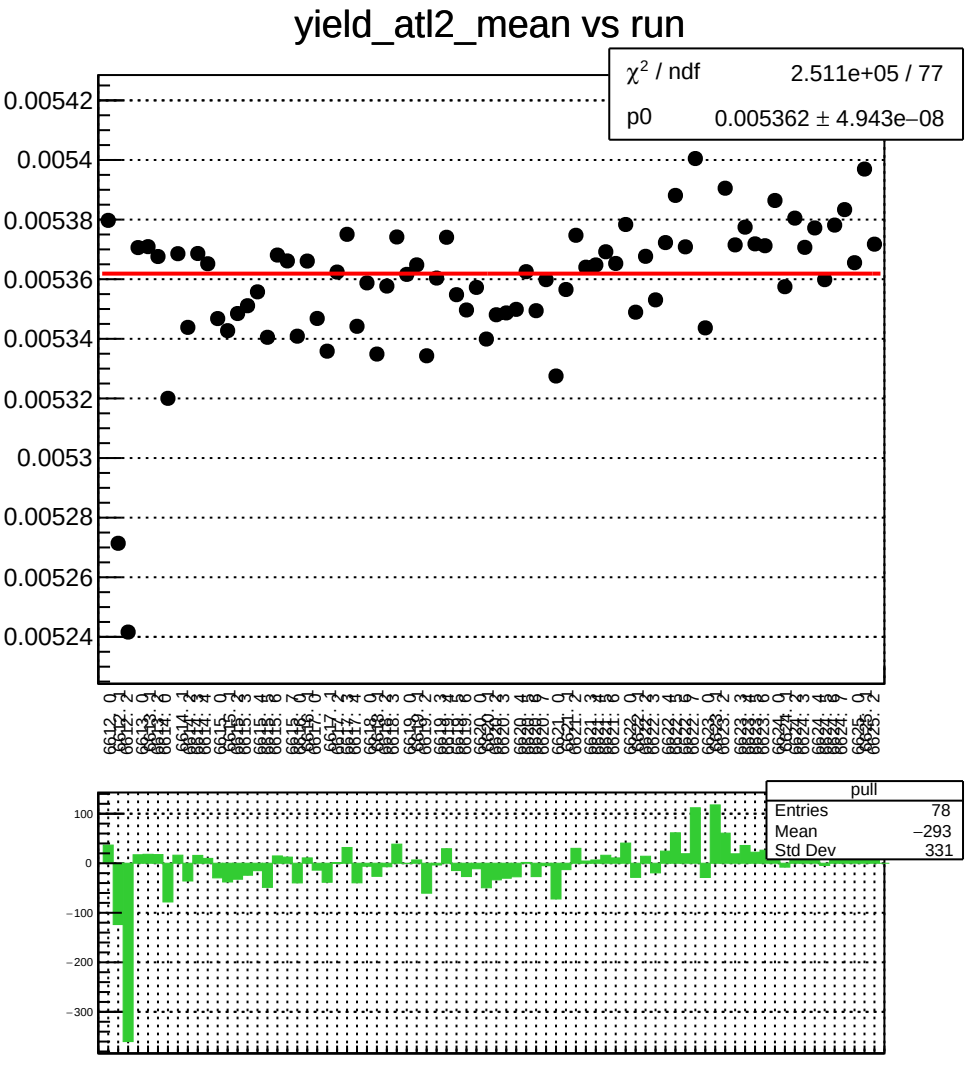

pull1D
Entries 78
Mean 3.73
Std Dev 3.902
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

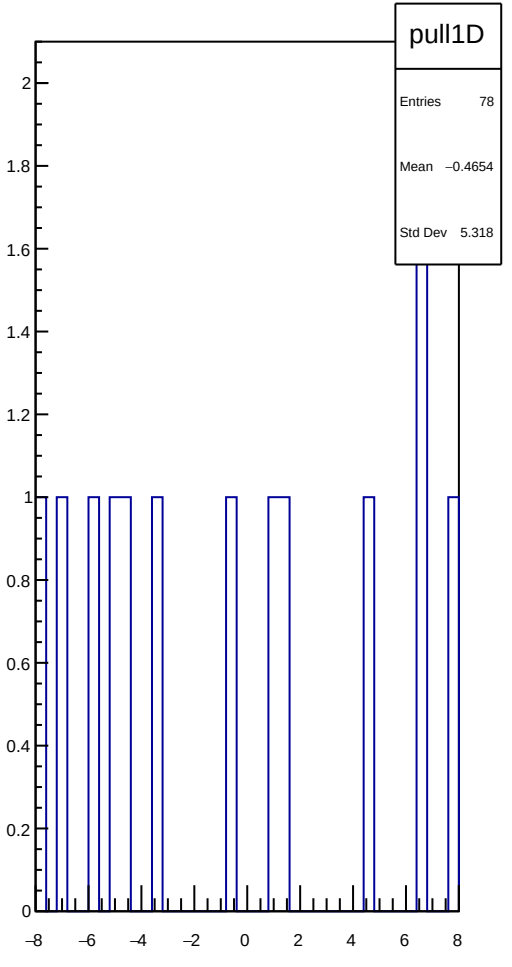

yield_dsr_rms vs run
χ² / ndf 6.149e+04 / 77
p0 0.05854 ± 4.802e−05
0.09
0.08
0.07
0.06
0.05
0.04

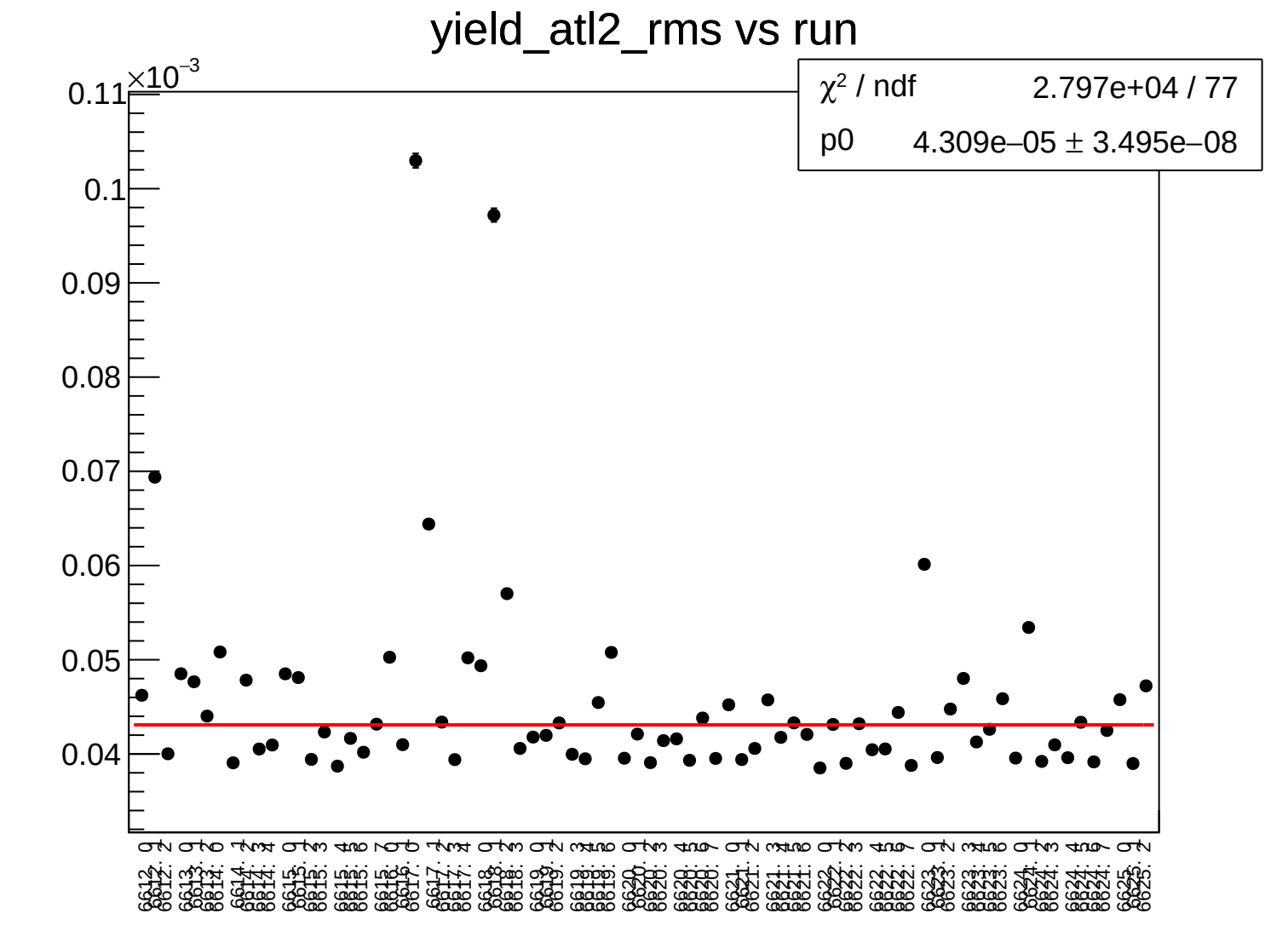

yield_atl1_mean vs run
χ² / ndf 1.549e+05 / 77
p0 0.01833 ± 7.638e−08
0.0184
0.01835
0.0183
0.01825
0.0182
pull
Entries 78
Mean 134.2
Std Dev 105.8
120
100
80
60
40
20
0
−20
−40
−60
−80

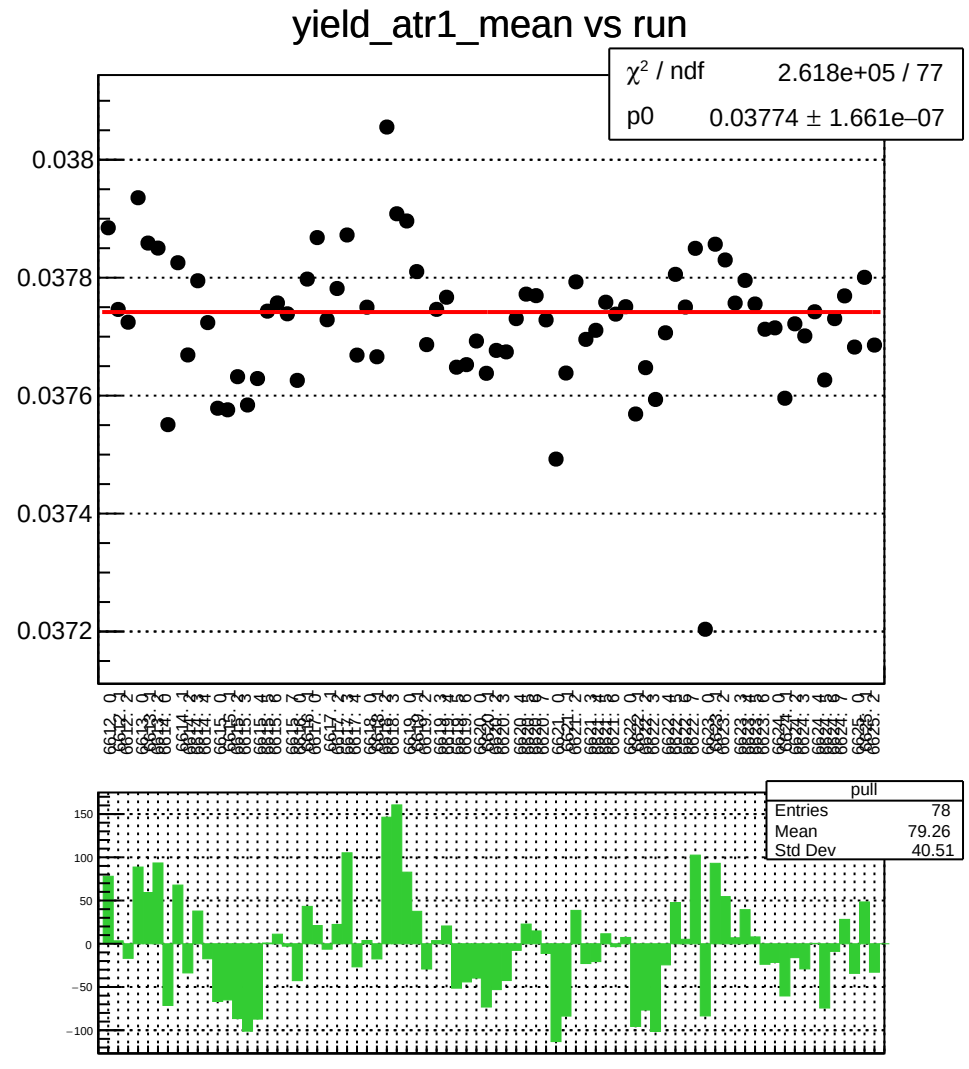

pull1D
Entries 78
Mean −0.1665
Std Dev 5.599
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

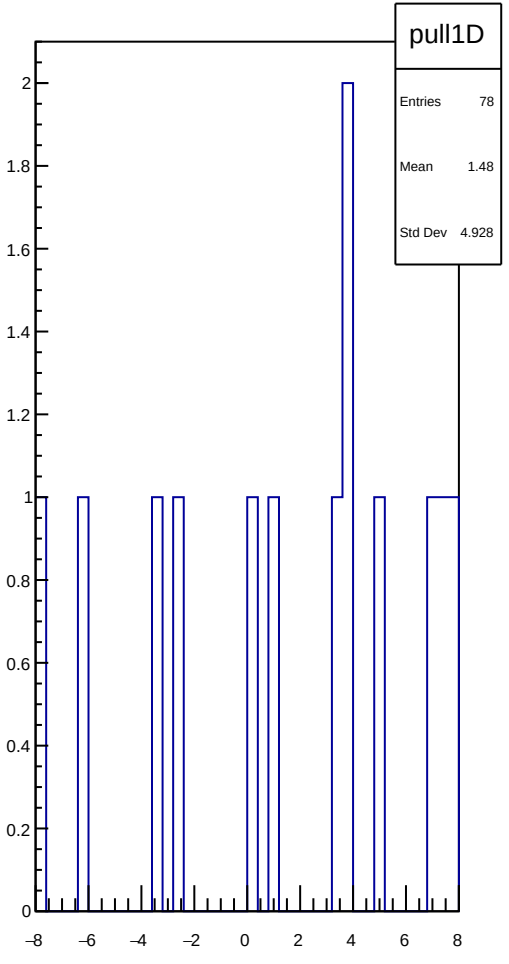

yield_atl1_rms vs run
×10⁻³
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
χ² / ndf 4.464e+04 / 77
p0 6.622e−05 ± 5.401e−08

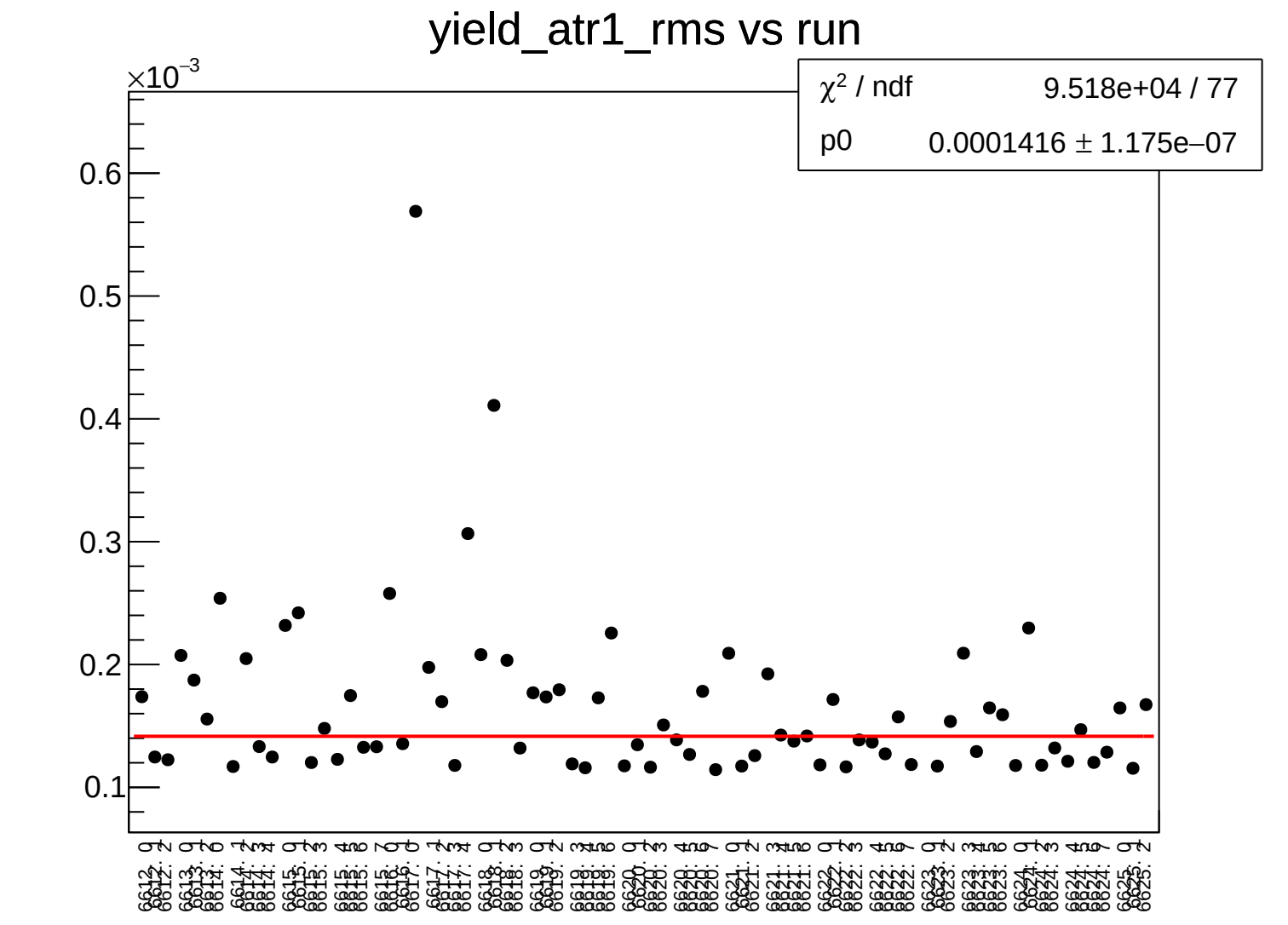

yield_atl2_mean vs run
χ² / ndf 2.511e+05 / 77
p0 0.005362 ± 4.943e−08
0.00542
0.0054
0.00538
0.00536
0.00534
0.00532
0.0053
0.00528
0.00526
0.00524
pull
Entries 78
Mean −293
Std Dev 331
100
0
−100
−200
−300

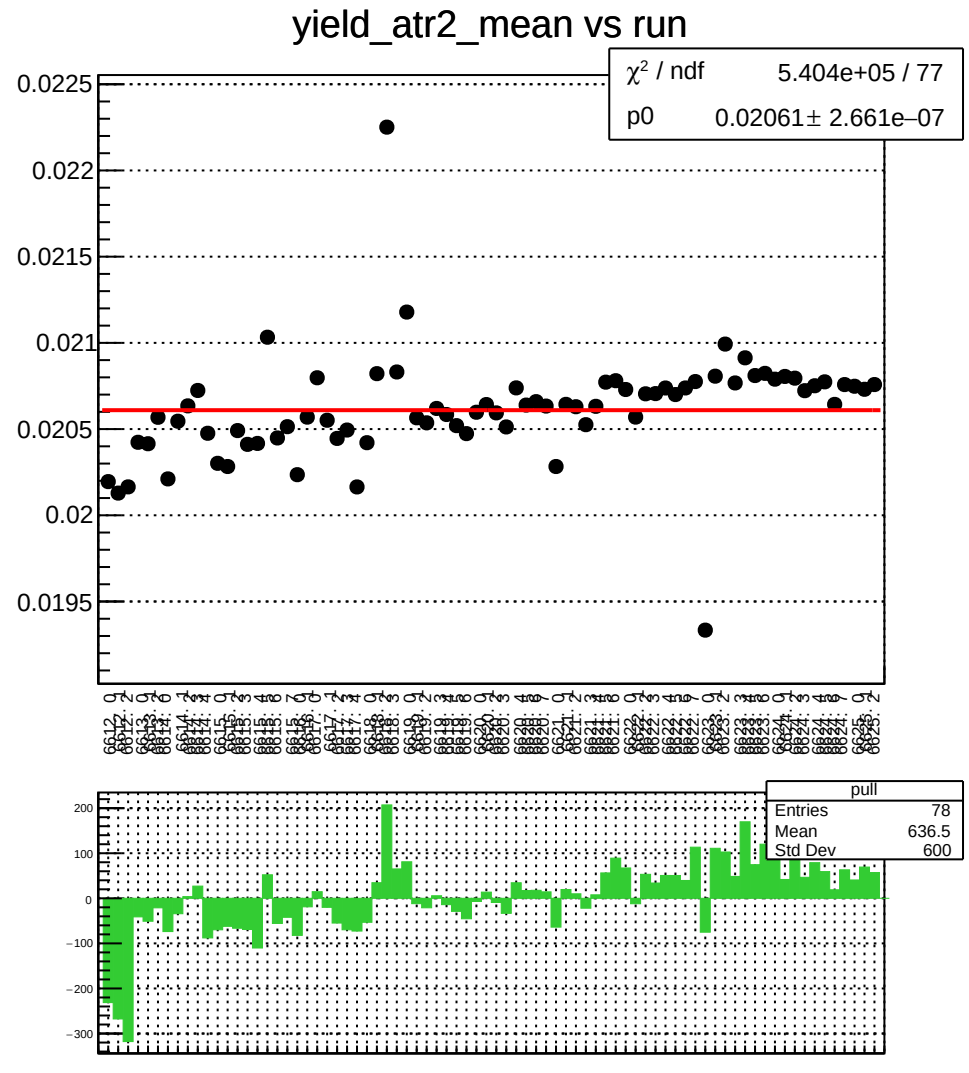

pull1D
Entries 78
Mean −0.4654
Std Dev 5.318
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

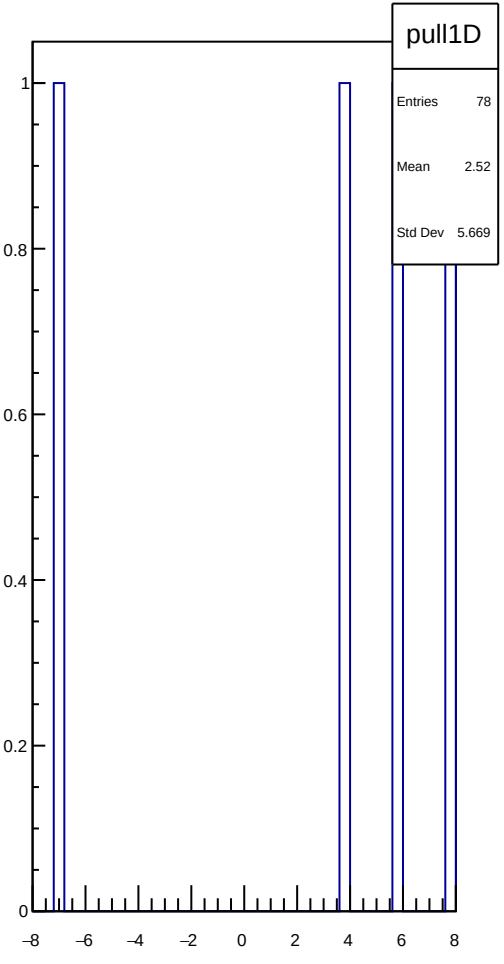

yield_atl2_rms vs run
χ^2 / ndf 2.797e+04 / 77
p0 4.309e−05 ± 3.495e−08
$\times 10^{-3}$
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

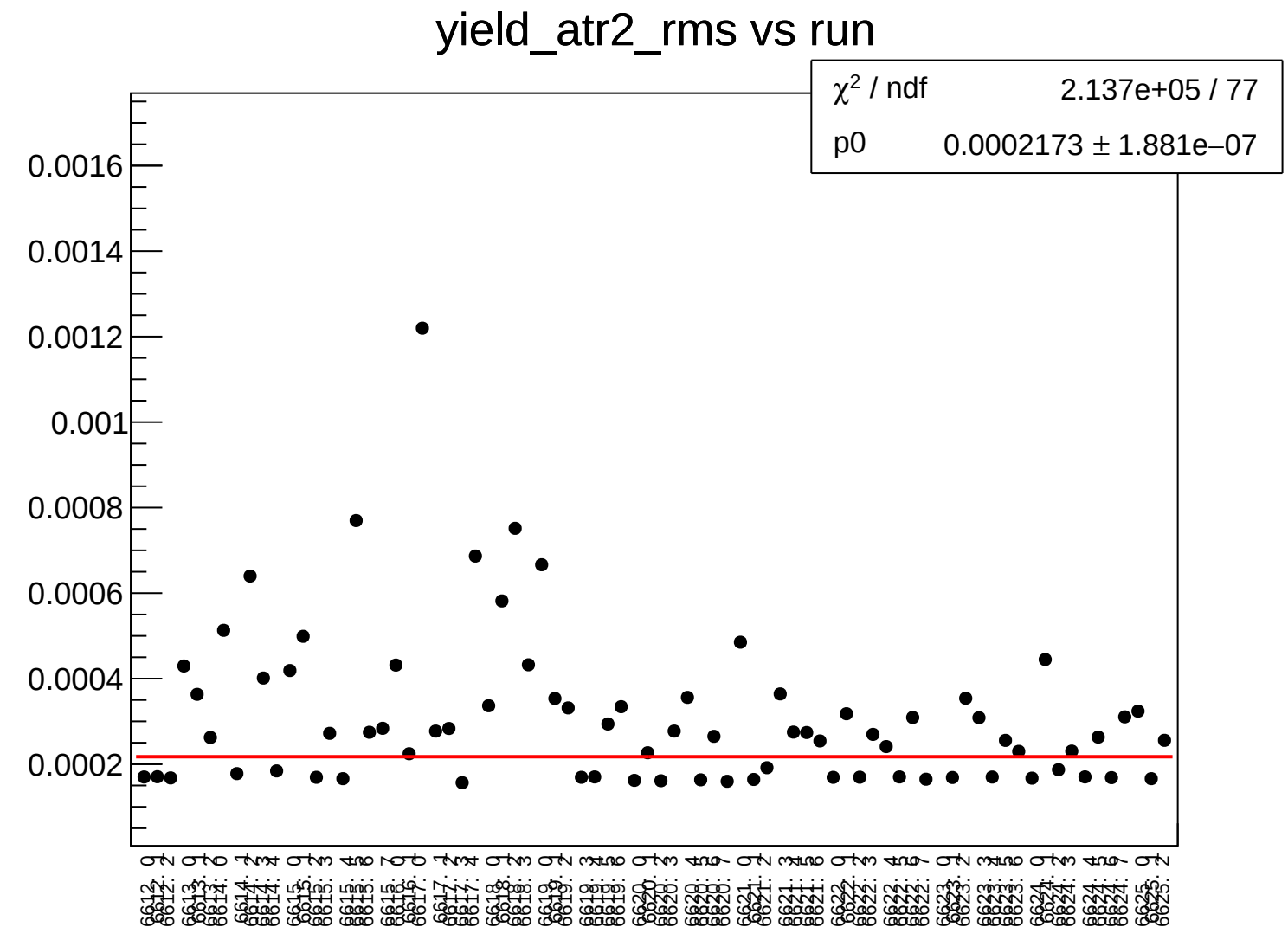

yield_atr1_mean vs run
χ² / ndf 2.618e+05 / 77
p0 0.03774 ± 1.661e−07
0.038
0.0378
0.0376
0.0374
0.0372
pull
Entries 78
Mean 79.26
Std Dev 40.51
150
100
50
0
−50
−100

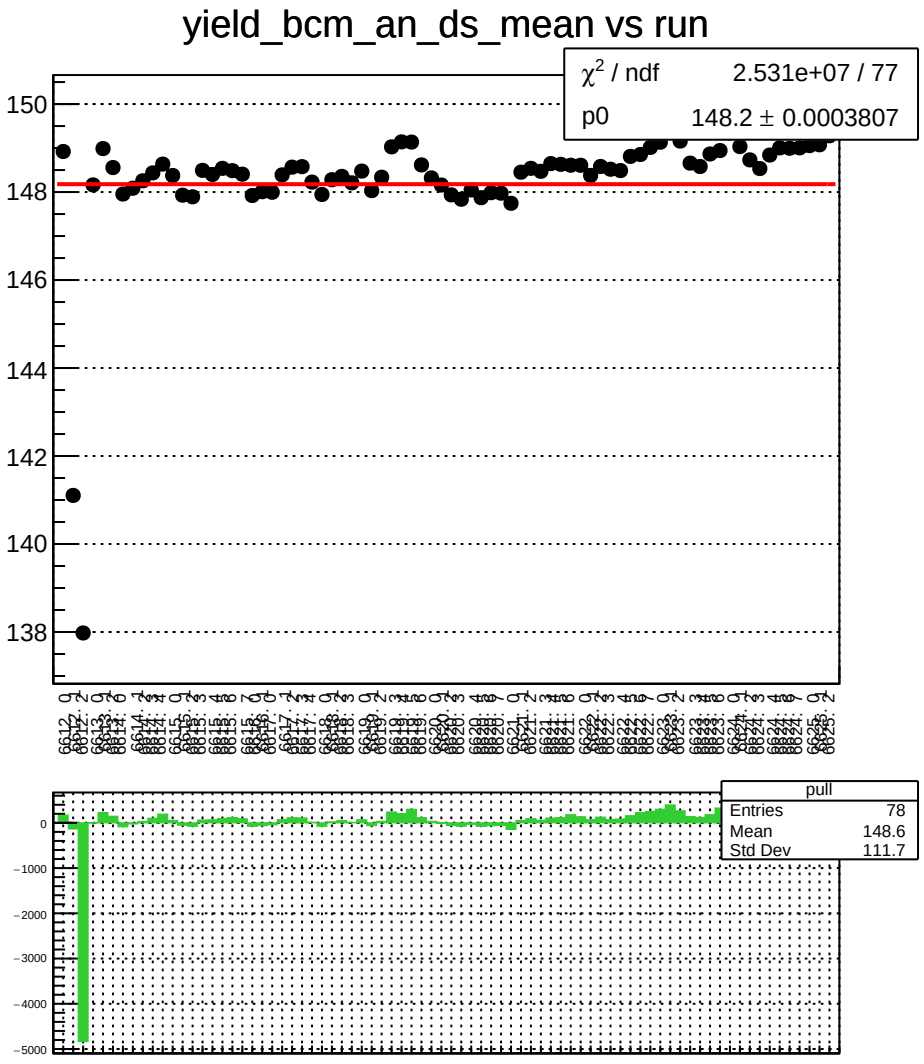

pull1D
Entries 78
Mean 1.48
Std Dev 4.928
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

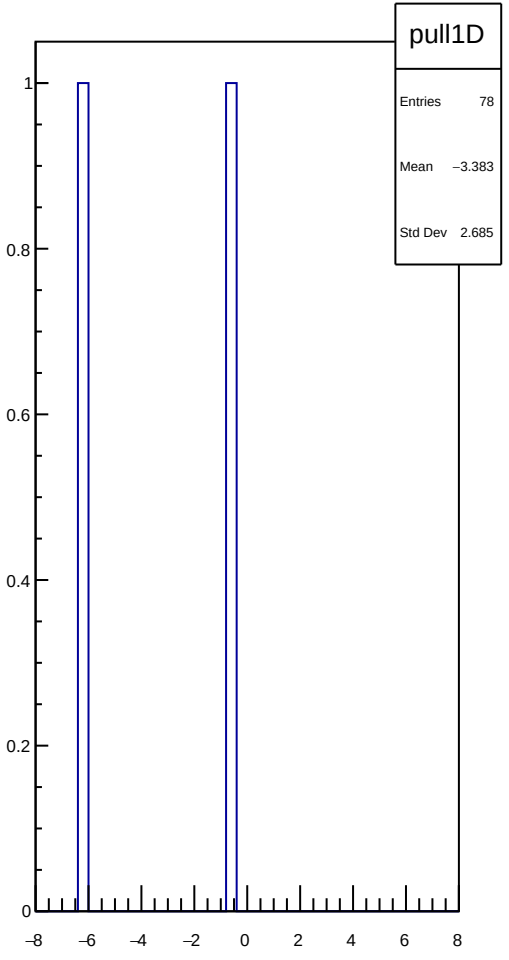

yield_atr1_rms vs run
×10⁻³
χ² / ndf 9.518e+04 / 77
p0 0.0001416 ± 1.175e−07
0.6
0.5
0.4
0.3
0.2
0.1

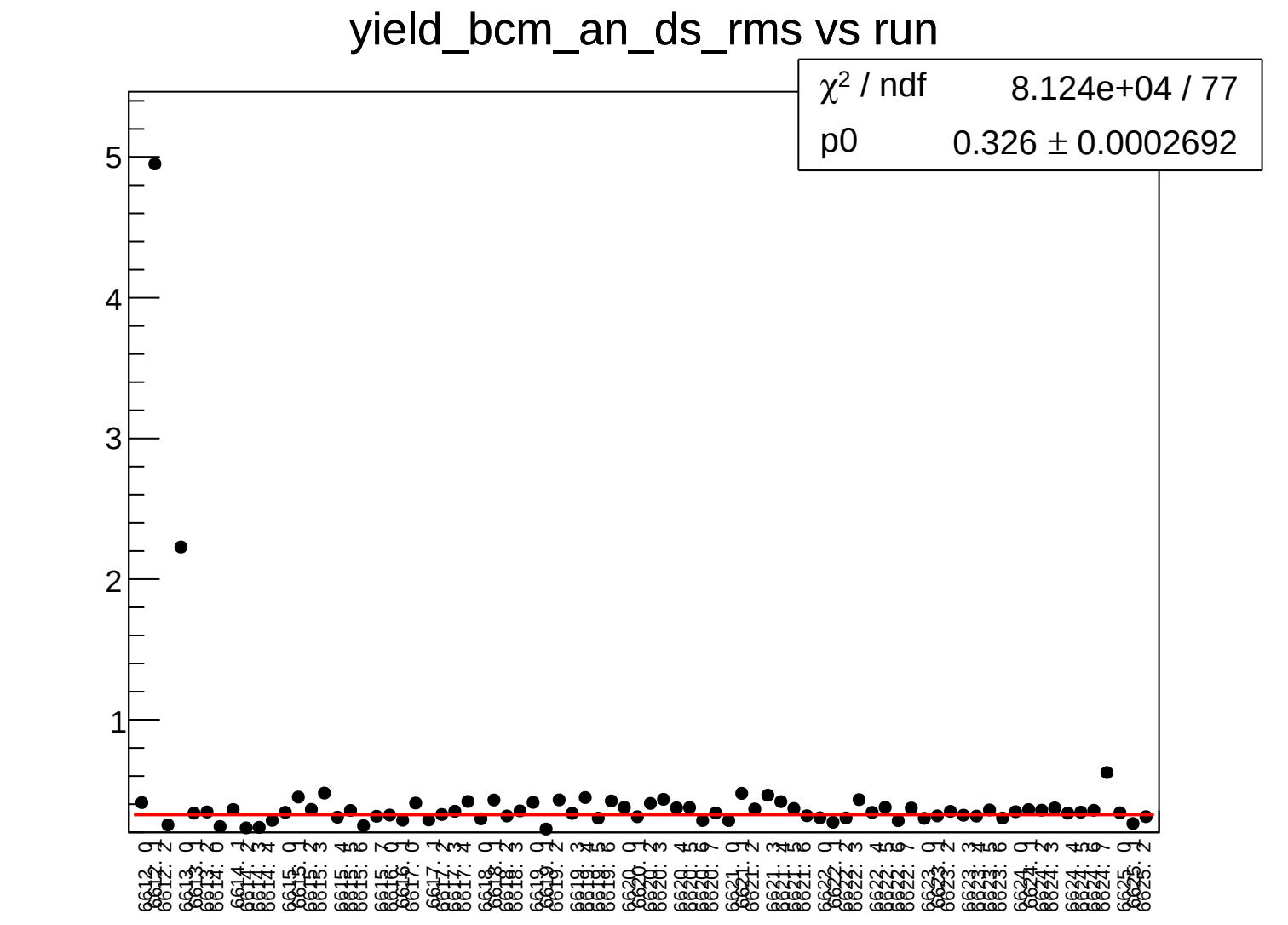

yield_atr2_mean vs run
χ² / ndf 5.404e+05 / 77
p0 0.02061± 2.661e–07
0.0225
0.022
0.0215
0.021
0.0205
0.02
0.0195
pull
Entries 78
Mean 636.5
Std Dev 600
200
100
0
–100
–200
–300

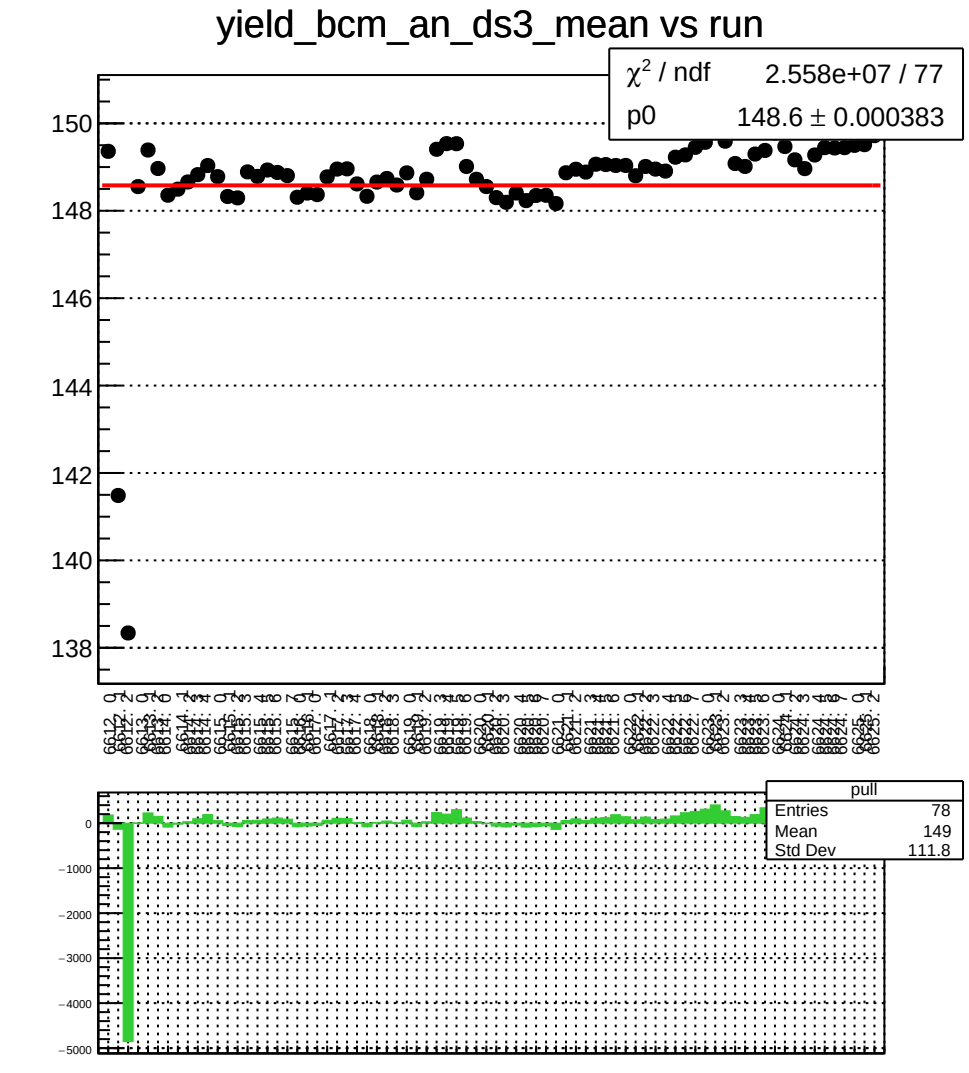

pull1D
Entries 78
Mean 2.52
Std Dev 5.669
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

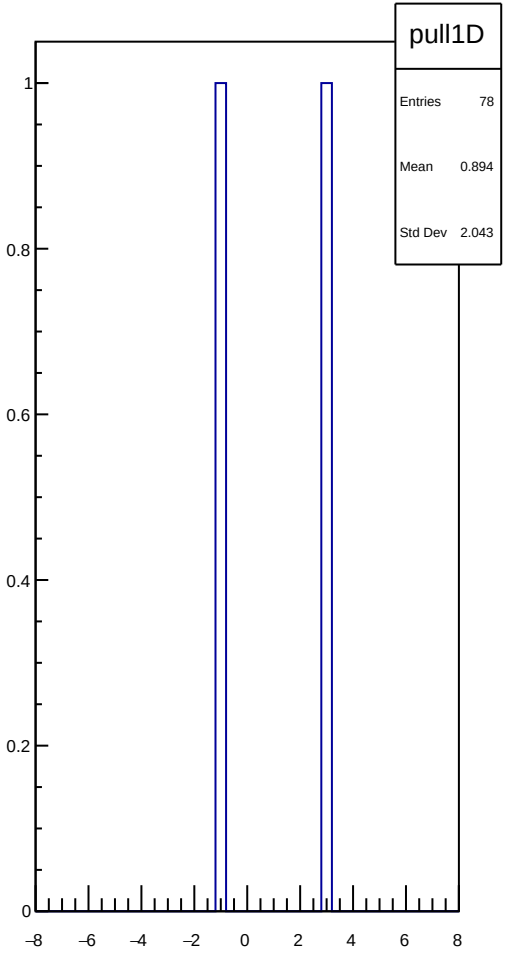

yield_atr2_rms vs run
χ² / ndf 2.137e+05 / 77
p0 0.0002173 ± 1.881e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

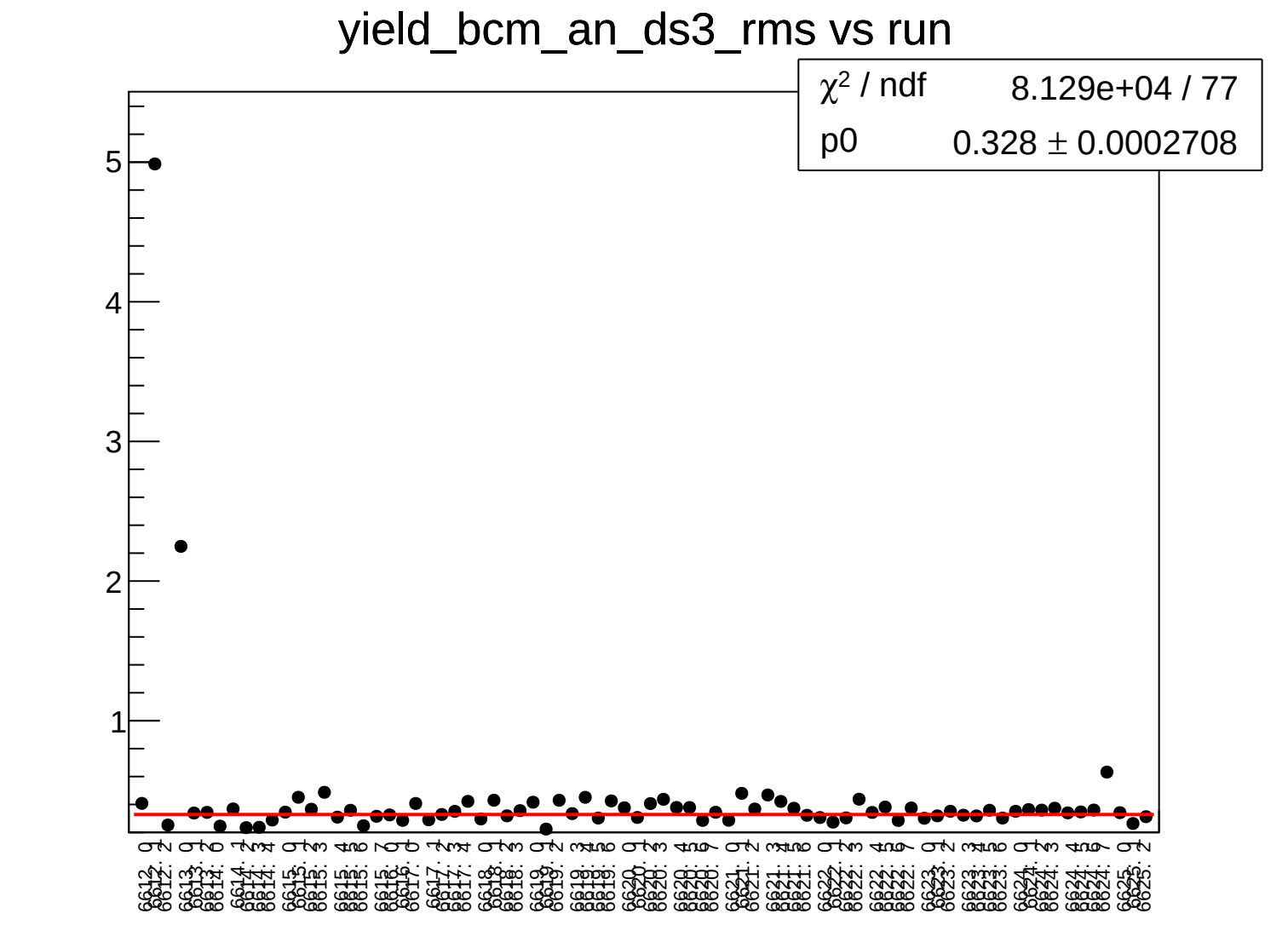

yield_bcm_an_ds_mean vs run
χ² / ndf 2.531e+07 / 77
p0 148.2 ± 0.0003807
150
148
146
144
142
140
138
pull
Entries 78
Mean 148.6
Std Dev 111.7
0
−1000
−2000
−3000
−4000
−5000

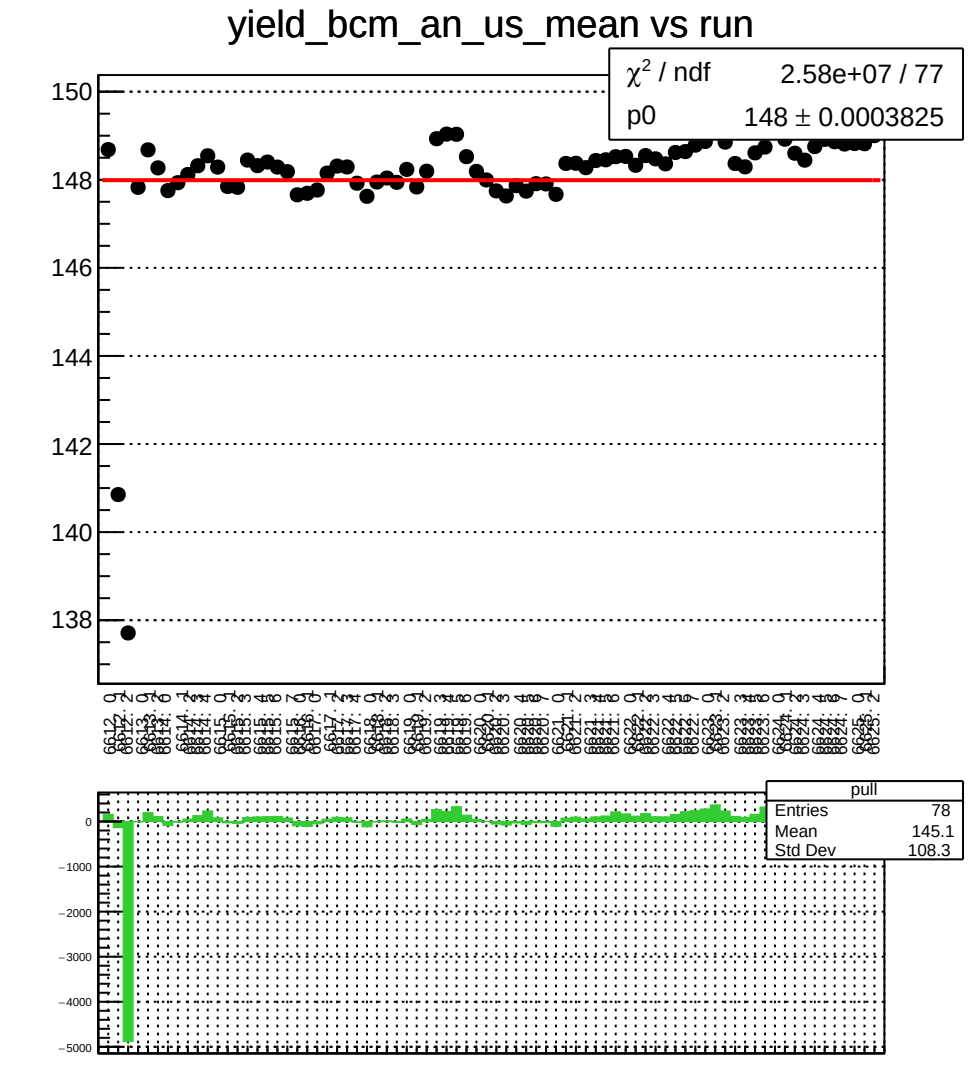

pull1D
Entries 78
Mean −3.383
Std Dev 2.685
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

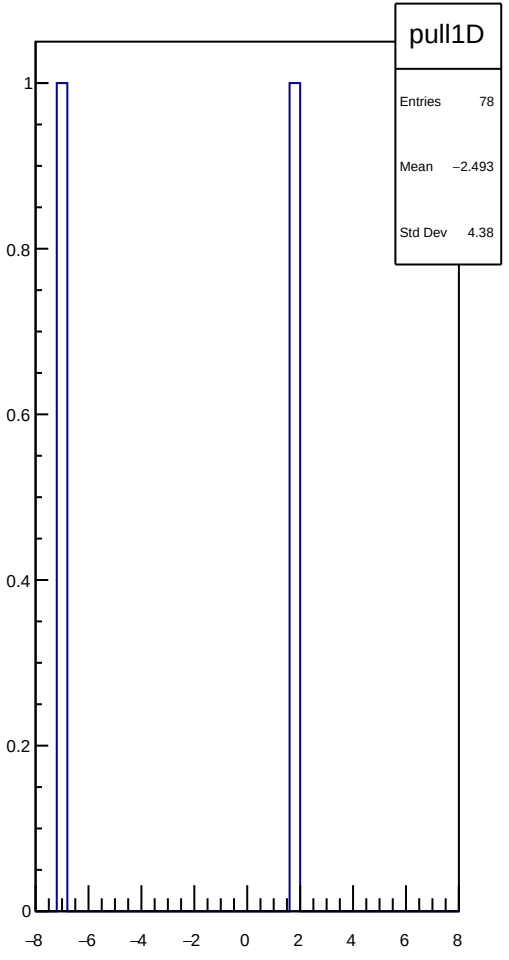

yield_bcm_an_ds_rms vs run
χ² / ndf 8.124e+04 / 77
p0 0.326 ± 0.0002692
5
4
3
2
1

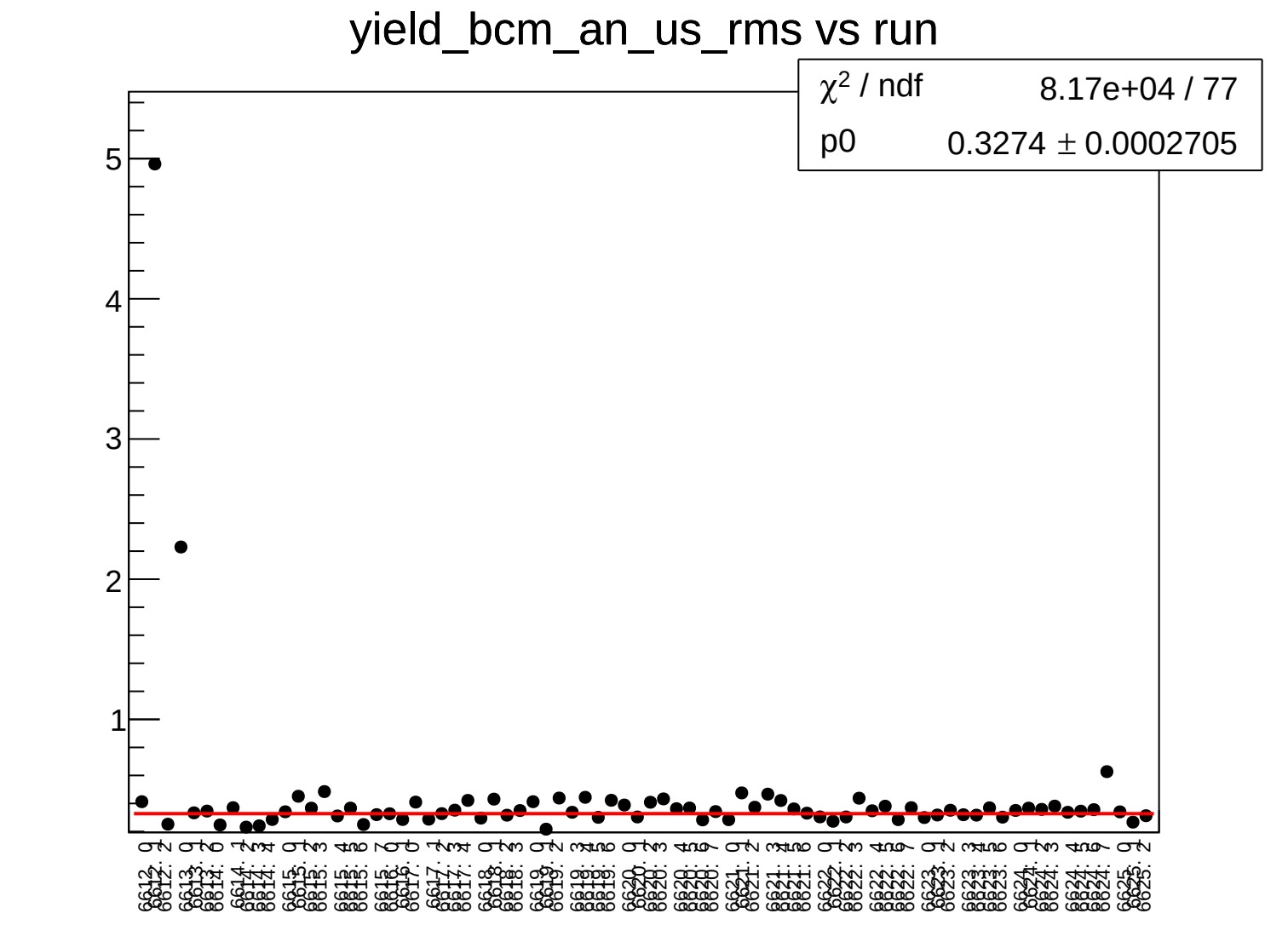

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.558e+07 / 77
p0 148.6 ± 0.000383
150
148
146
144
142
140
138
pull
Entries 78
Mean 149
Std Dev 111.8
0
−1000
−2000
−3000
−4000
−5000

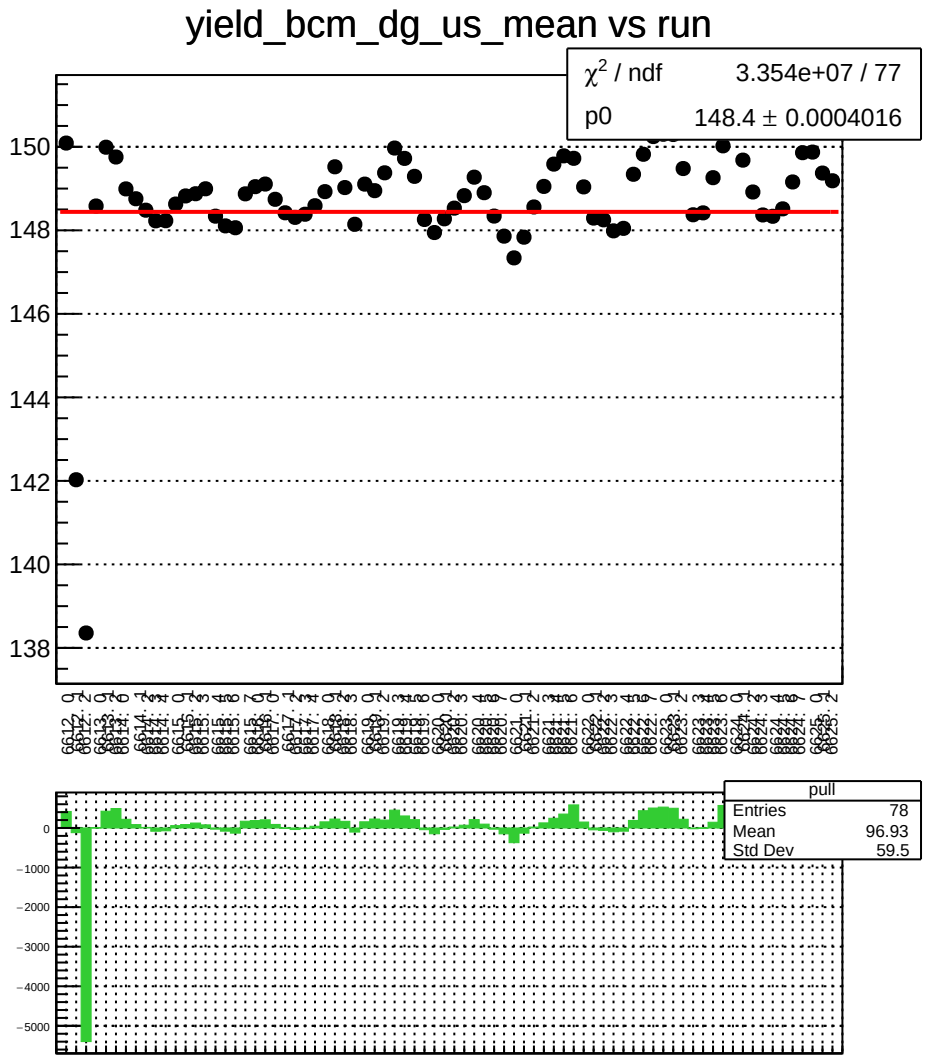

pull1D
Entries 78
Mean 0.894
Std Dev 2.043
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

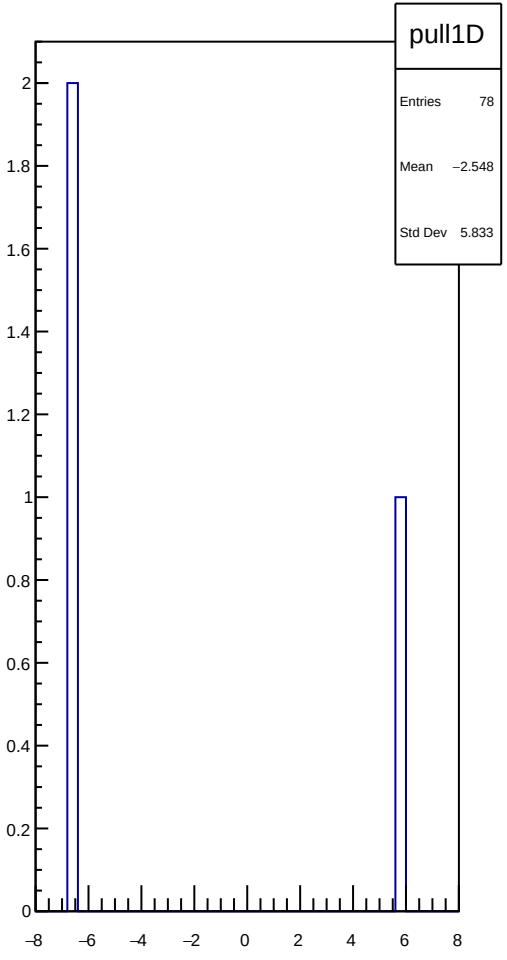

yield_bcm_an_ds3_rms vs run
χ² / ndf 8.129e+04 / 77
p0 0.328 ± 0.0002708
5
4
3
2
1

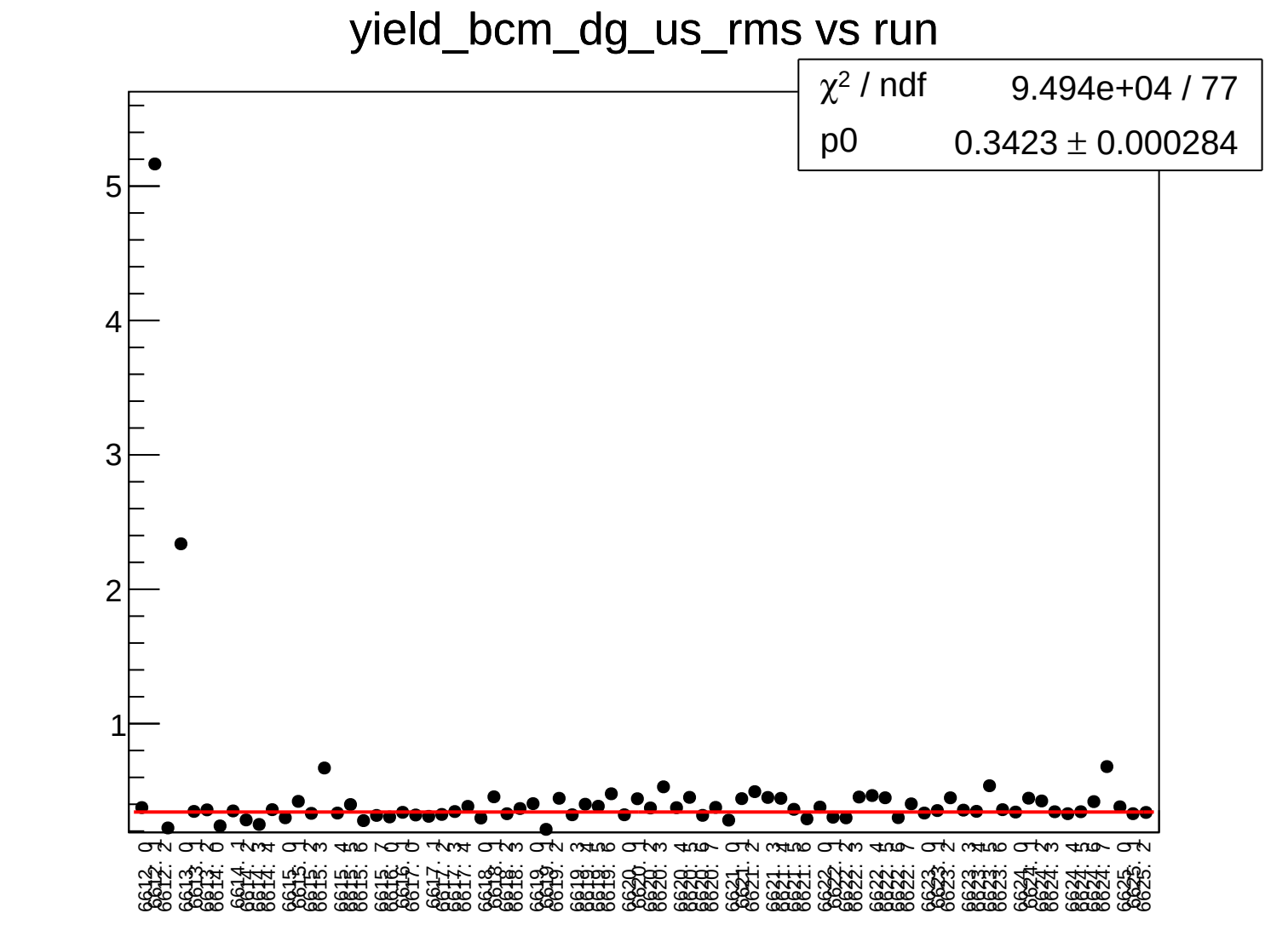

yield_bcm_an_us_mean vs run
χ² / ndf 2.58e+07 / 77
p0 148 ± 0.0003825
150
148
146
144
142
140
138
pull
Entries 78
Mean 145.1
Std Dev 108.3
0
−1000
−2000
−3000
−4000
−5000

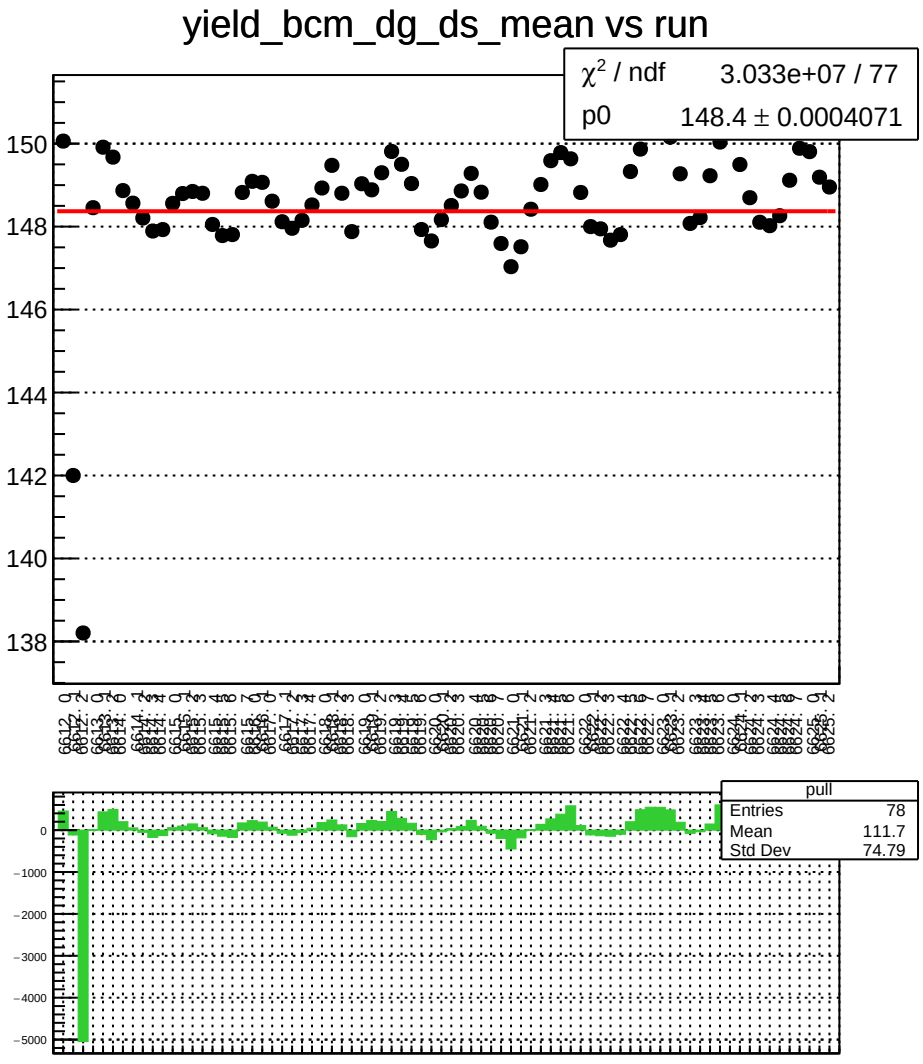

pull1D
Entries 78
Mean −2.493
Std Dev 4.38
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

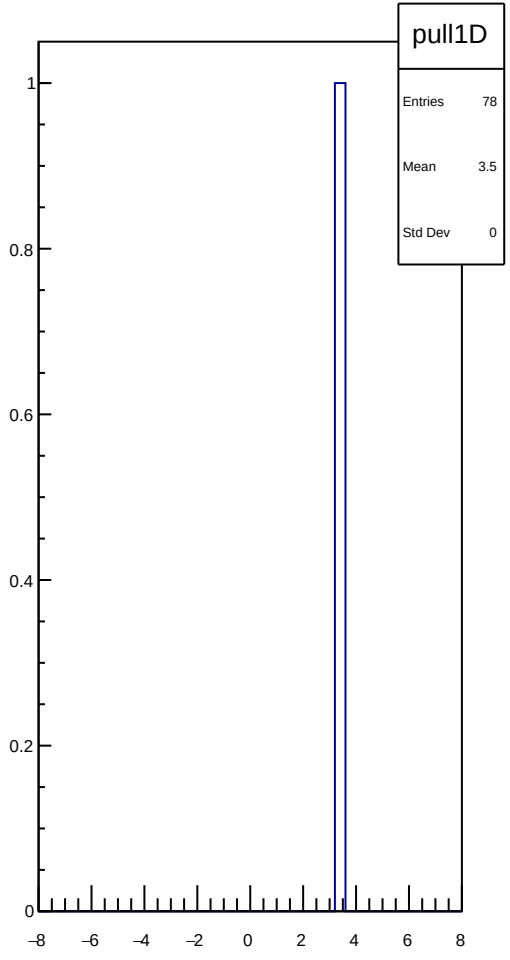

yield_bcm_an_us_rms vs run
χ2 / ndf 8.17e+04 / 77
p0 0.3274 ± 0.0002705
5
4
3
2
1

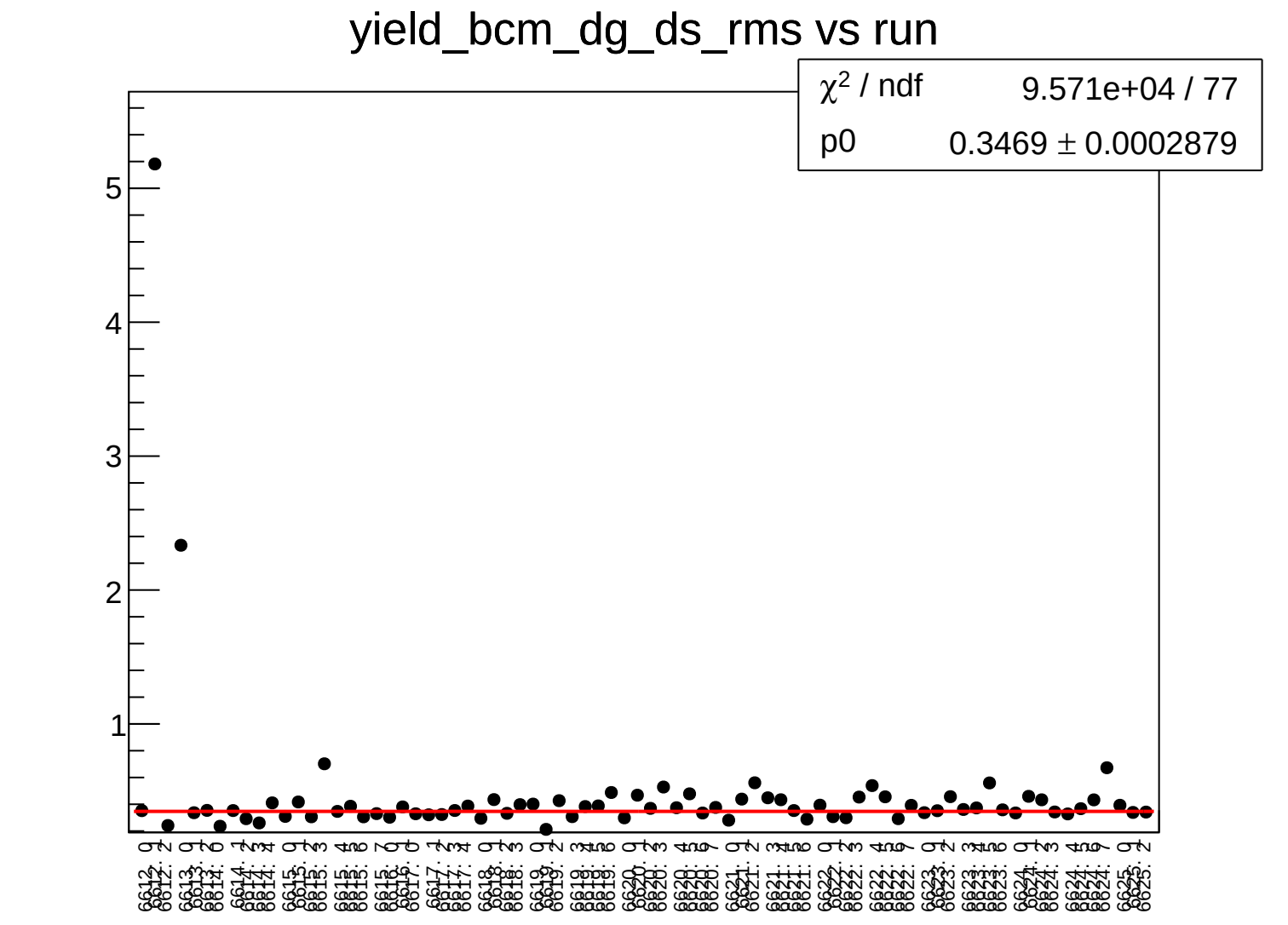

yield_bcm_dg_us_mean vs run
χ² / ndf 3.354e+07 / 77
p0 148.4 ± 0.0004016
150
148
146
144
142
140
138
pull
Entries 78
Mean 96.93
Std Dev 59.5
0
−1000
−2000
−3000
−4000
−5000

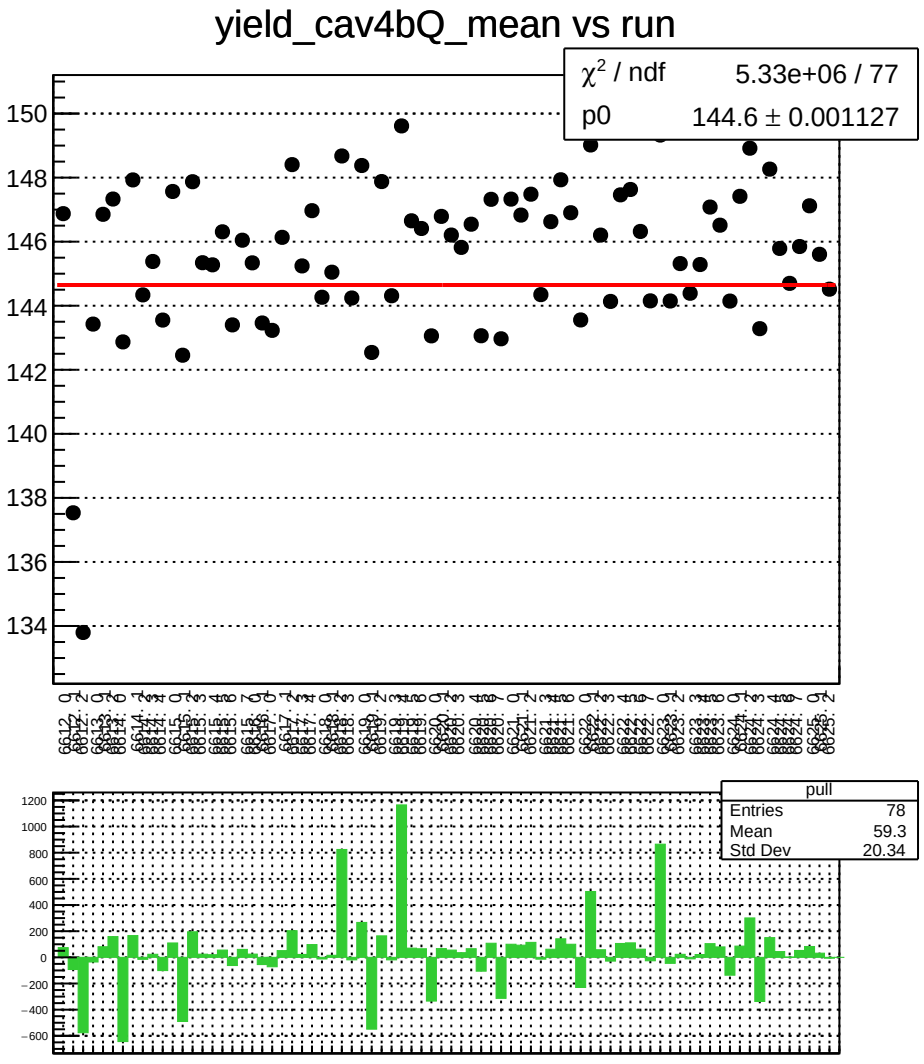

pull1D
Entries 78
Mean −2.548
Std Dev 5.833
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

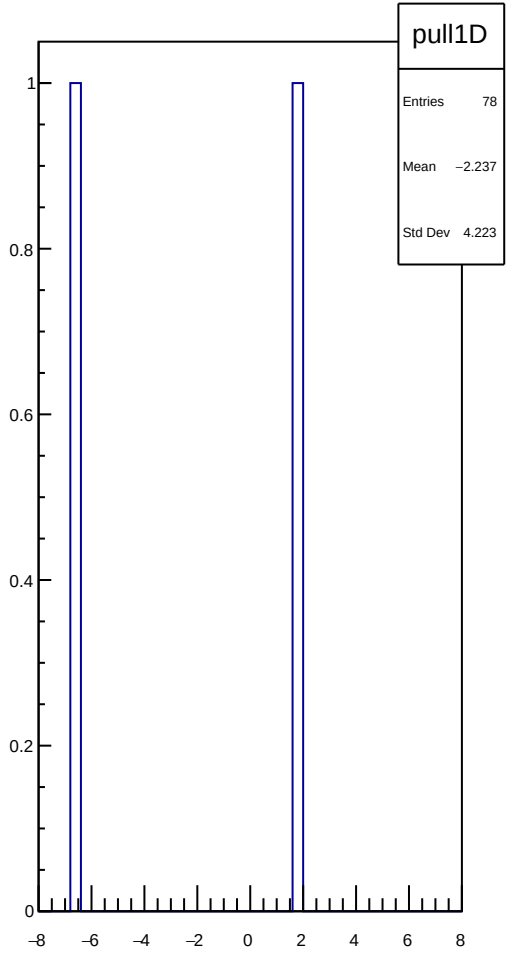

yield_bcm_dg_us_rms vs run
χ² / ndf 9.494e+04 / 77
p0 0.3423 ± 0.000284
5
4
3
2
1

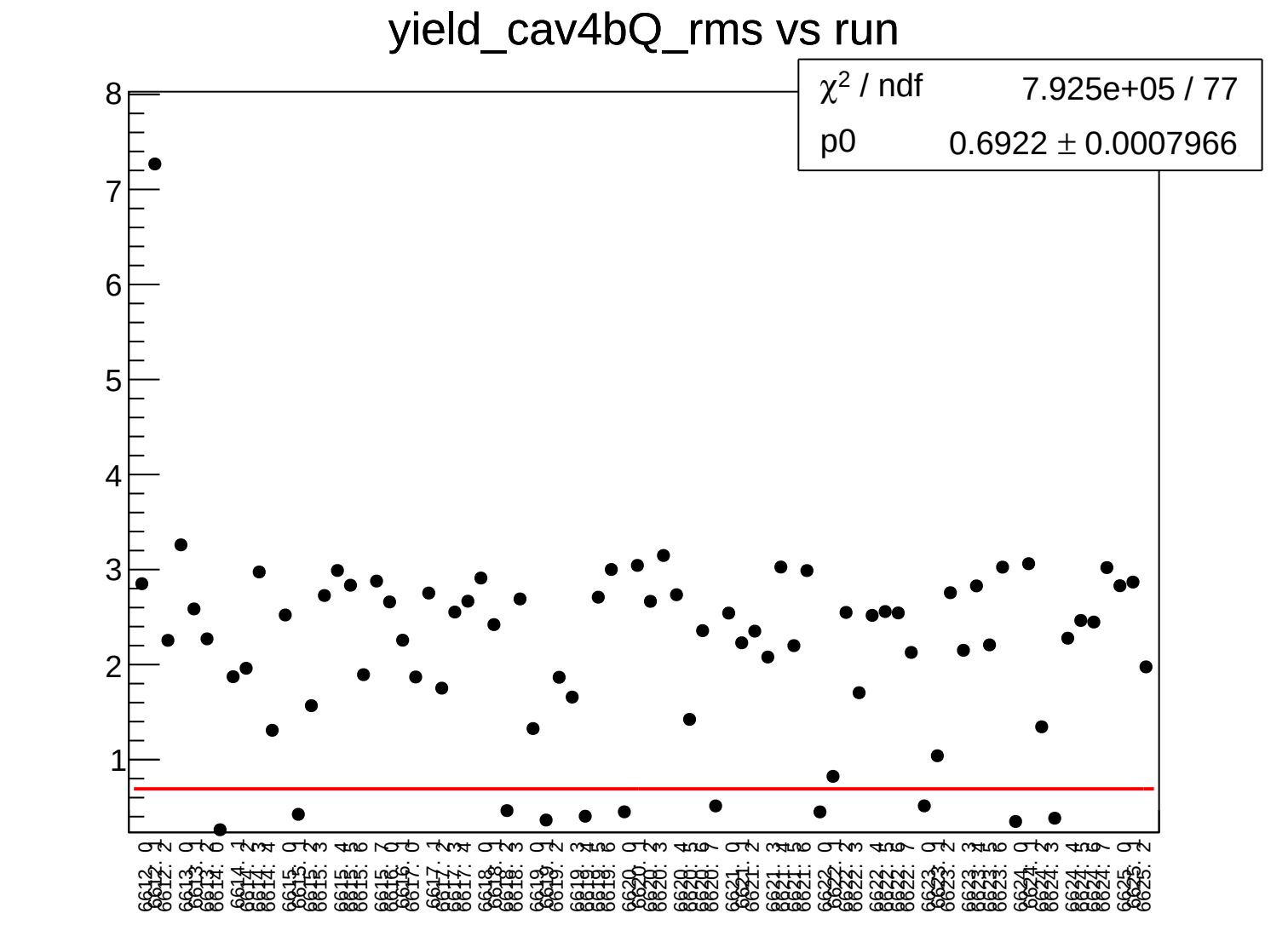

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.033e+07 / 77
p0 148.4 ± 0.0004071
150
148
146
144
142
140
138
pull
Entries 78
Mean 111.7
Std Dev 74.79
0
−1000
−2000
−3000
−4000
−5000

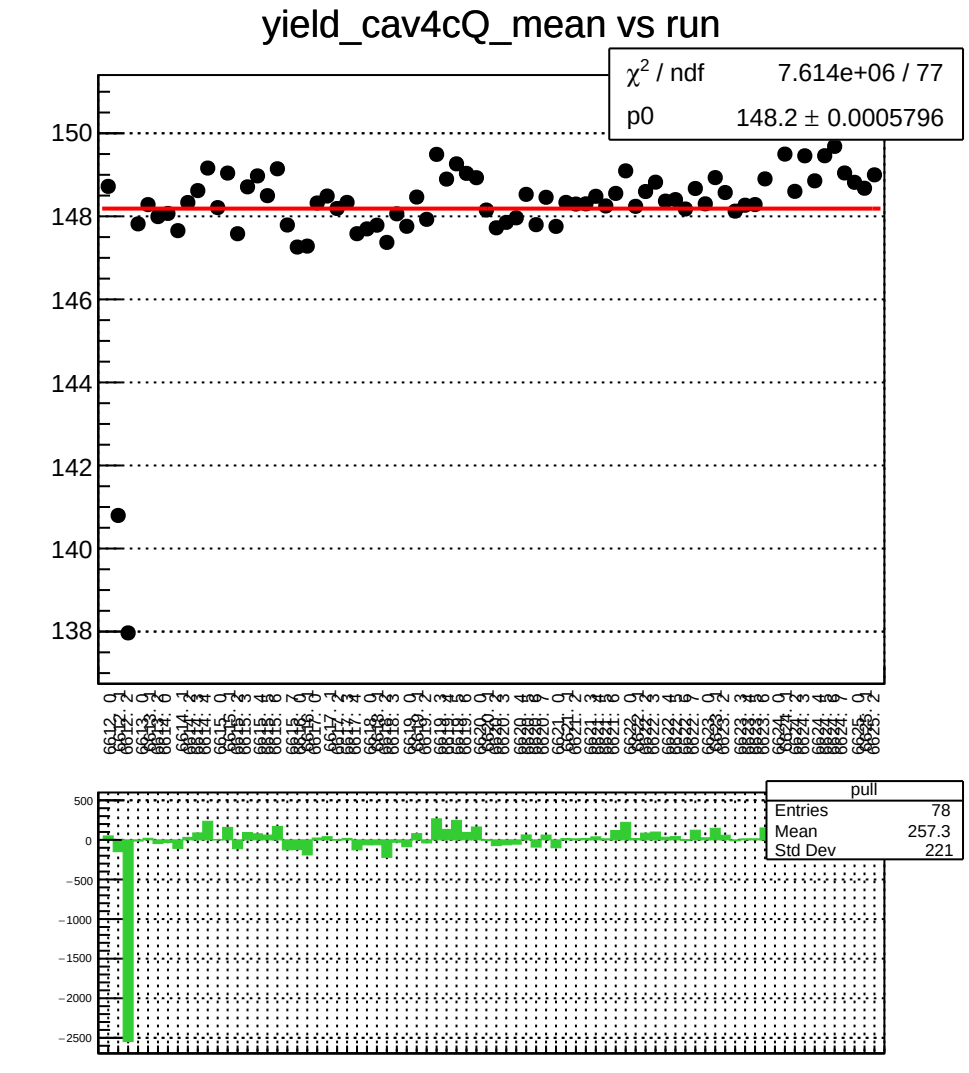

pull1D
Entries 78
Mean 3.5
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

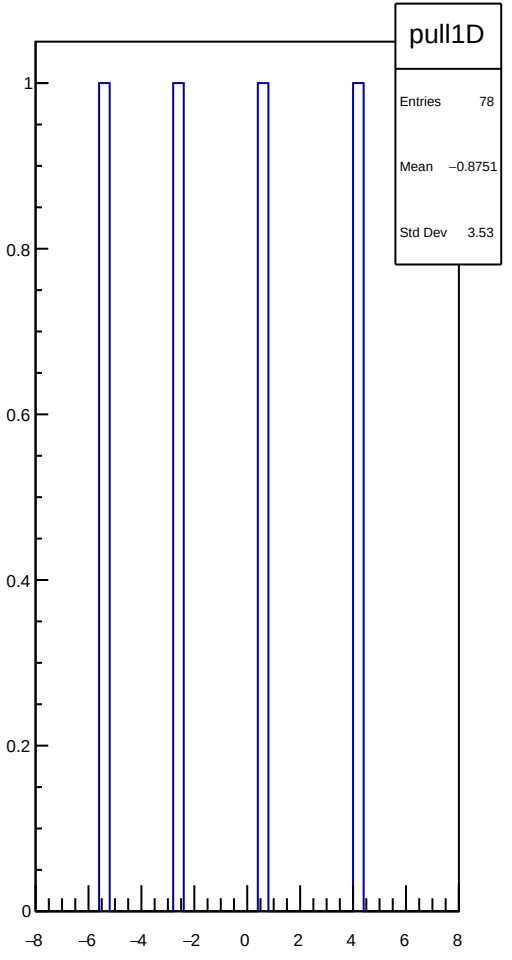

yield_bcm_dg_ds_rms vs run
χ^2 / ndf 9.571e+04 / 77
p0 0.3469 ± 0.0002879
5
4
3
2
1


yield_cav4bQ_mean vs run
χ² / ndf 5.33e+06 / 77
p0 144.6 ± 0.001127
150
148
146
144
142
140
138
136
134
pull
Entries 78
Mean 59.3
Std Dev 20.34
1200
1000
800
600
400
200
0
−200
−400
−600

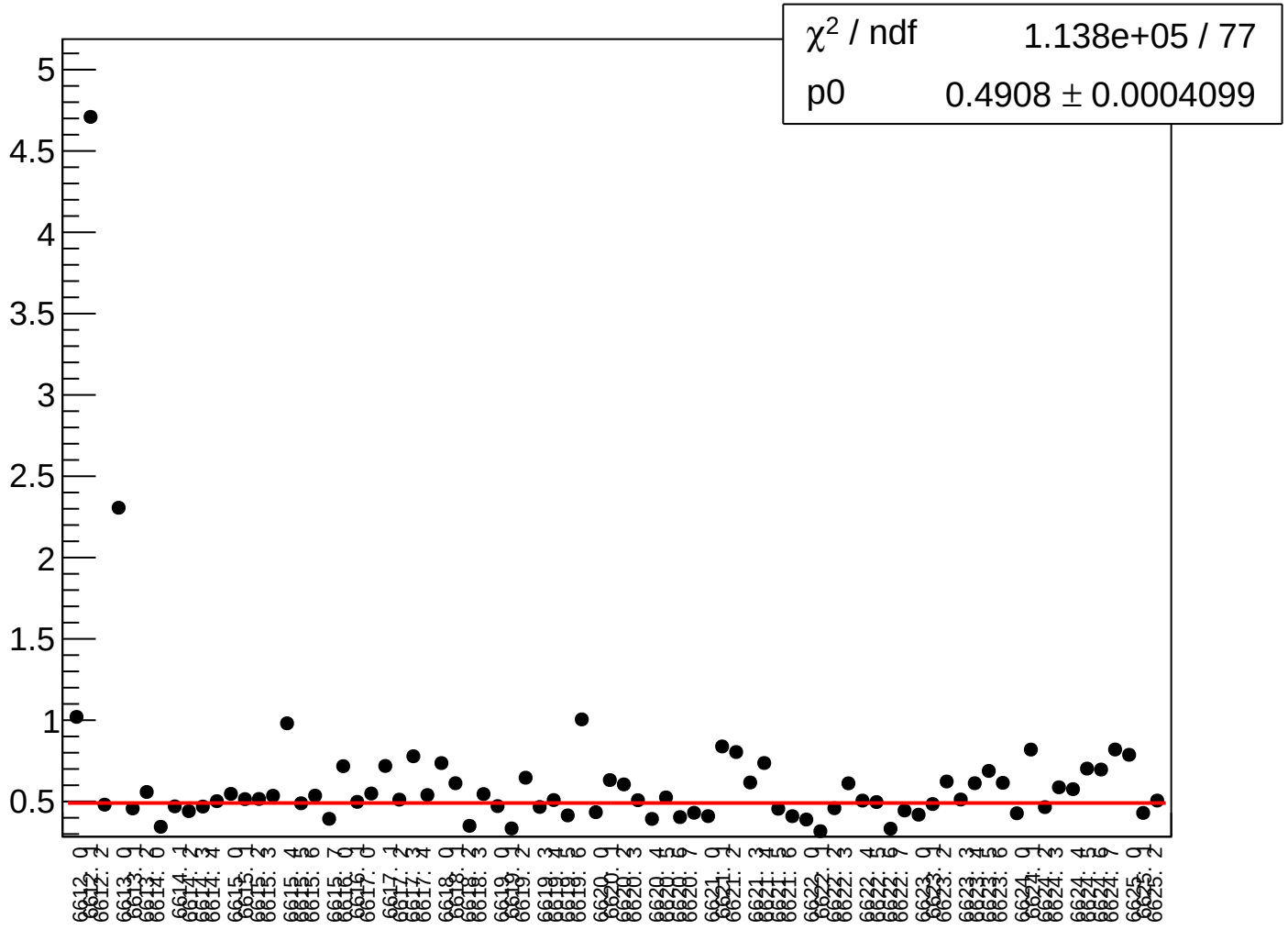

pull1D
Entries 78
Mean −2.237
Std Dev 4.223
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

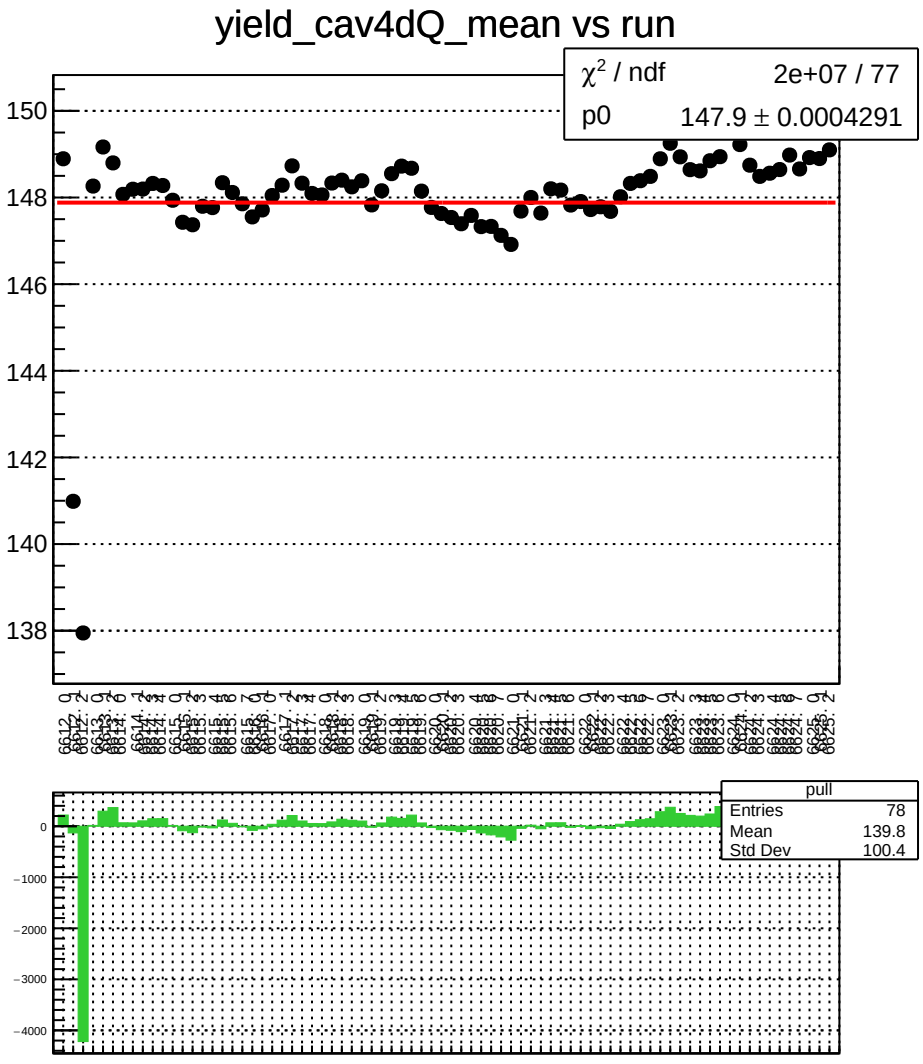

yield_cav4bQ_rms vs run
χ² / ndf 7.925e+05 / 77
p0 0.6922 ± 0.0007966
8
7
6
5
4
3
2
1

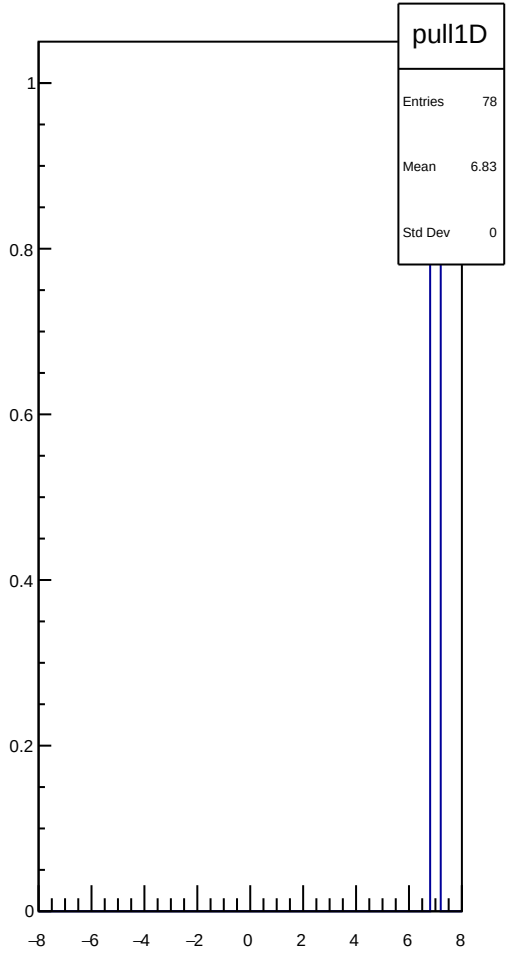

yield_cav4cQ_mean vs run
χ² / ndf 7.614e+06 / 77
p0 148.2 ± 0.0005796
150
148
146
144
142
140
138
pull
Entries 78
Mean 257.3
Std Dev 221
500
0
−500
−1000
−1500
−2000
−2500


pull1D
Entries 78
Mean −0.8751
Std Dev 3.53
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

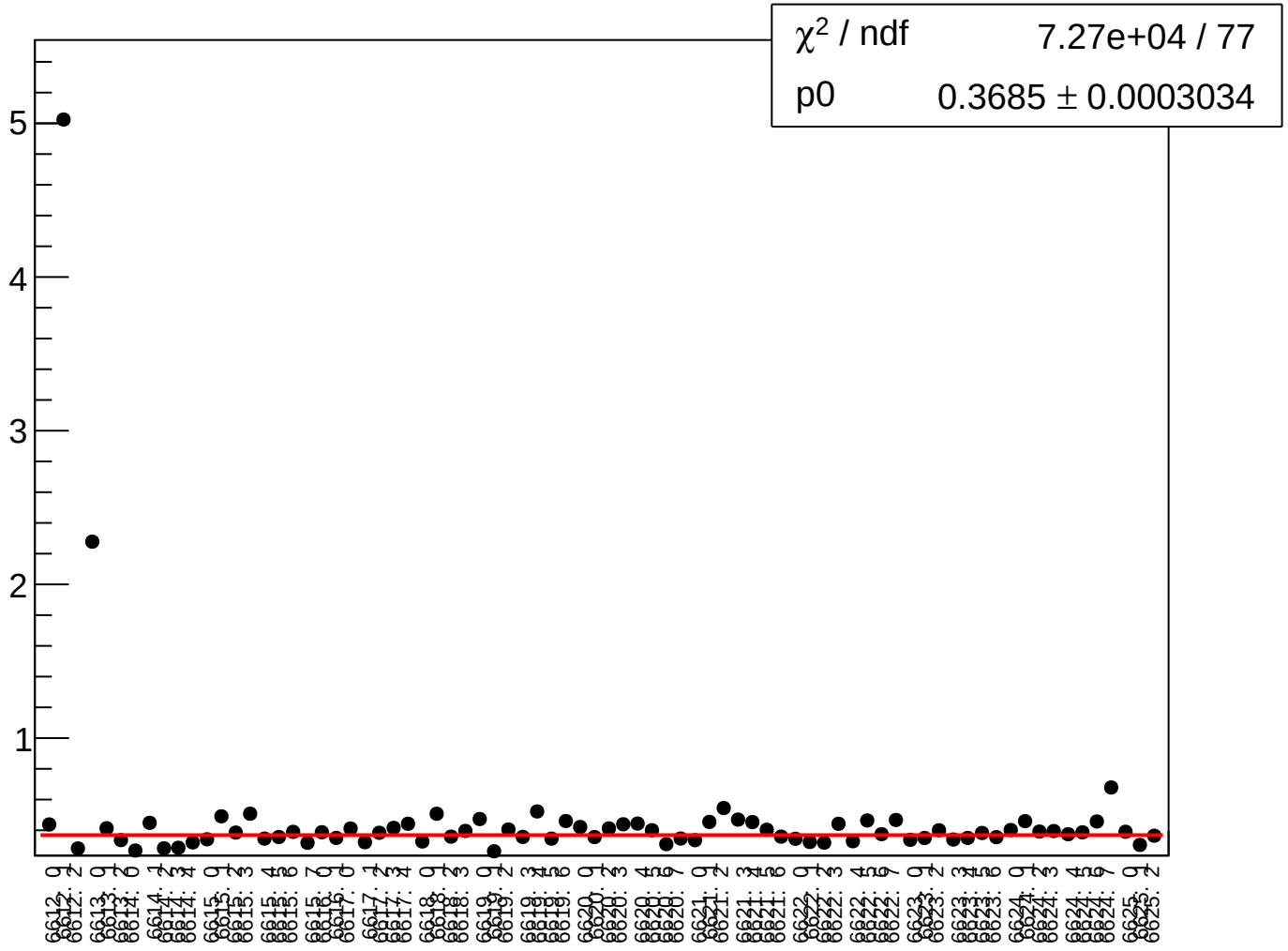
yield_cav4cQ_rms vs run

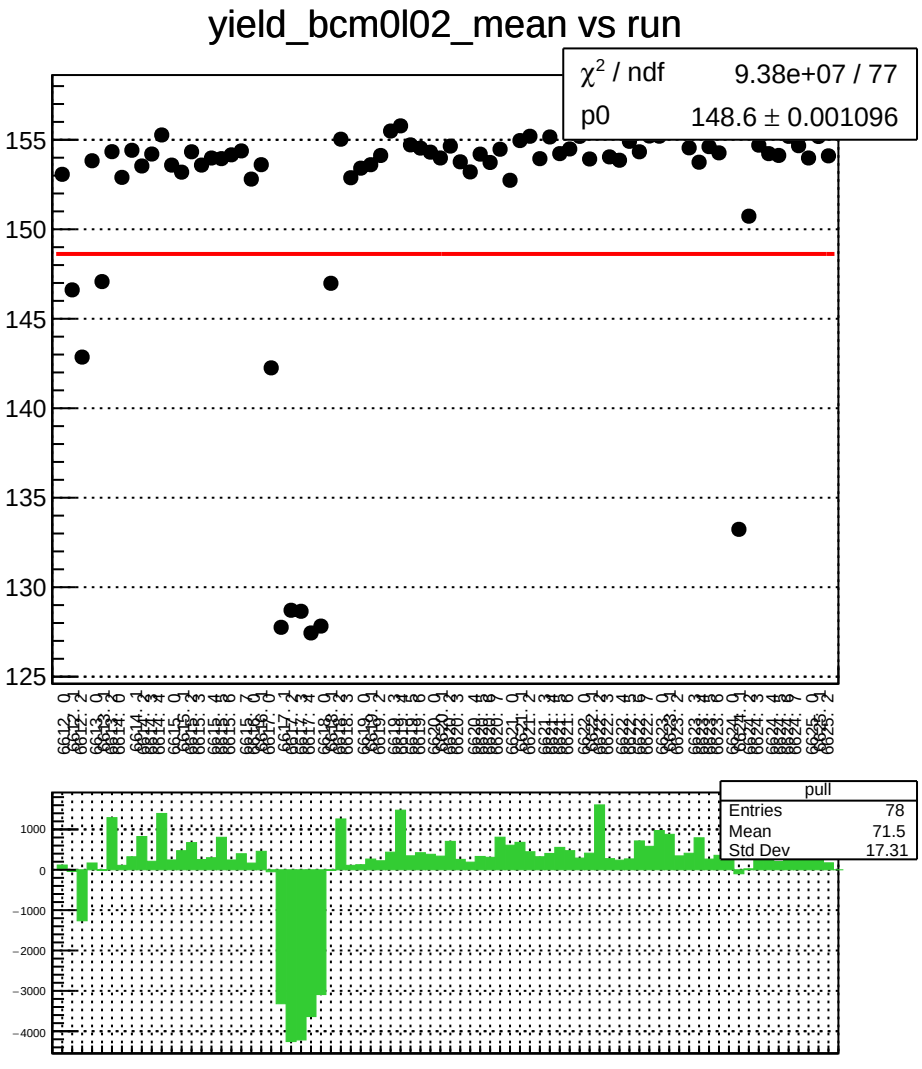


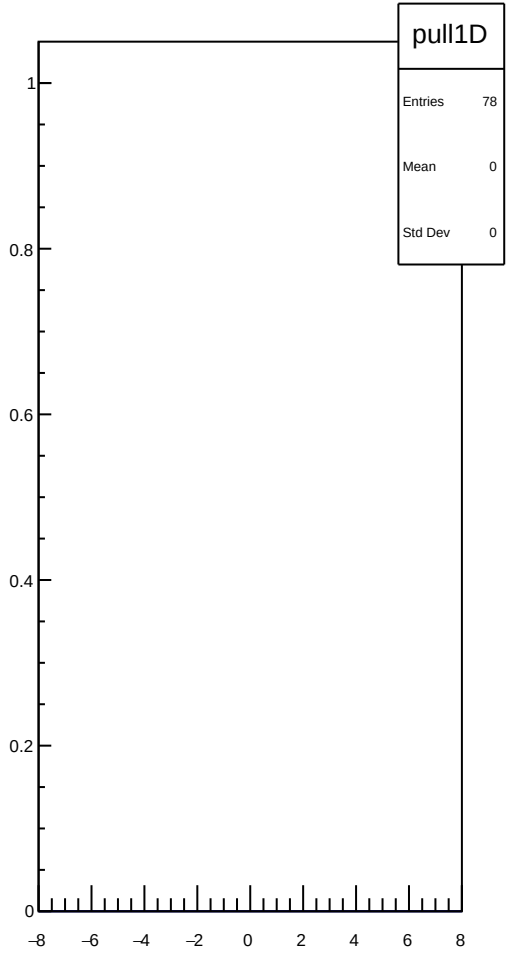

yield_cav4dQ_mean vs run
χ² / ndf 2e+07 / 77
p0 147.9 ± 0.0004291
150
148
146
144
142
140
138
pull
Entries 78
Mean 139.8
Std Dev 100.4
0
−1000
−2000
−3000
−4000

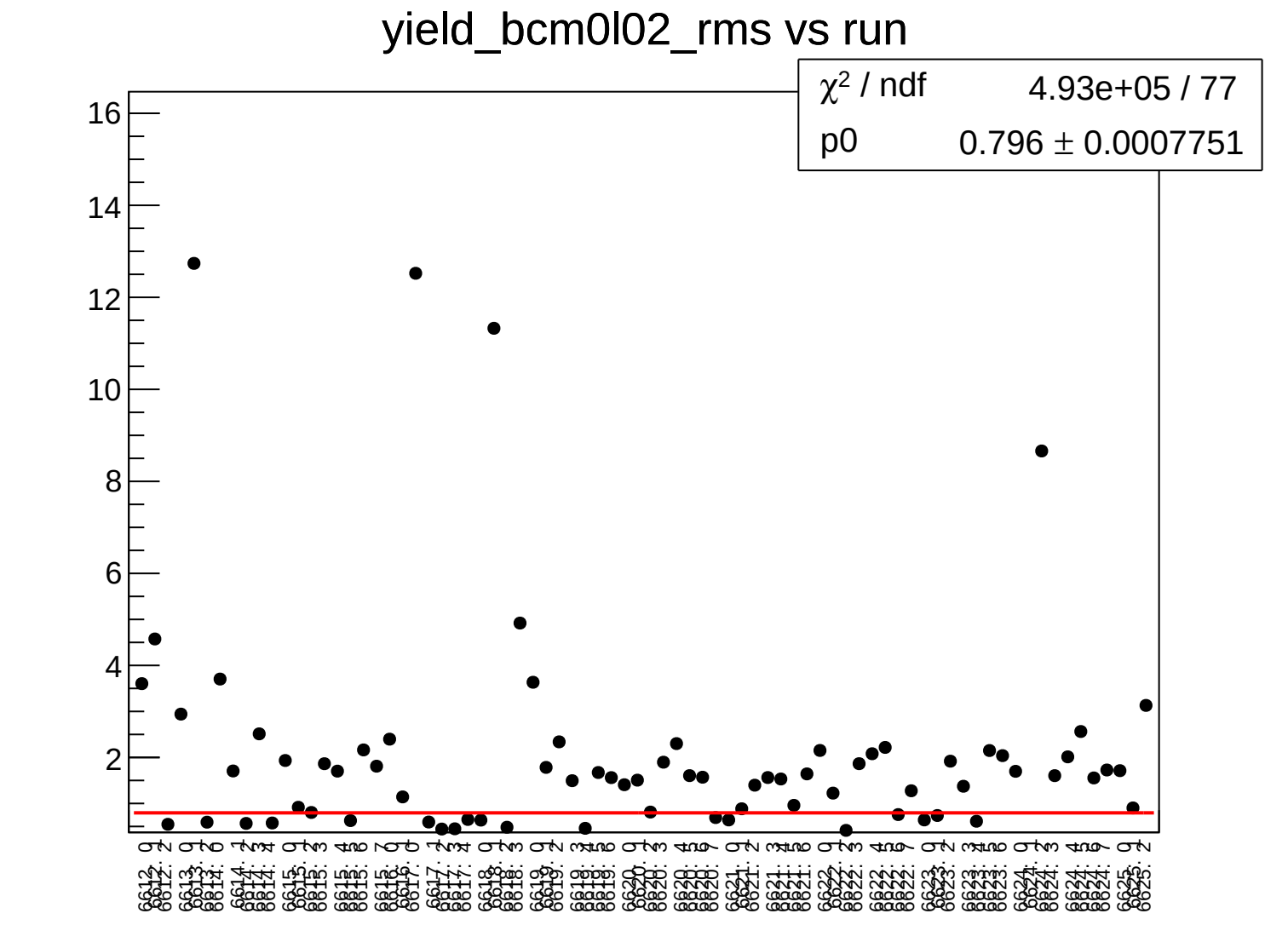

pull1D
Entries 78
Mean 6.83
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

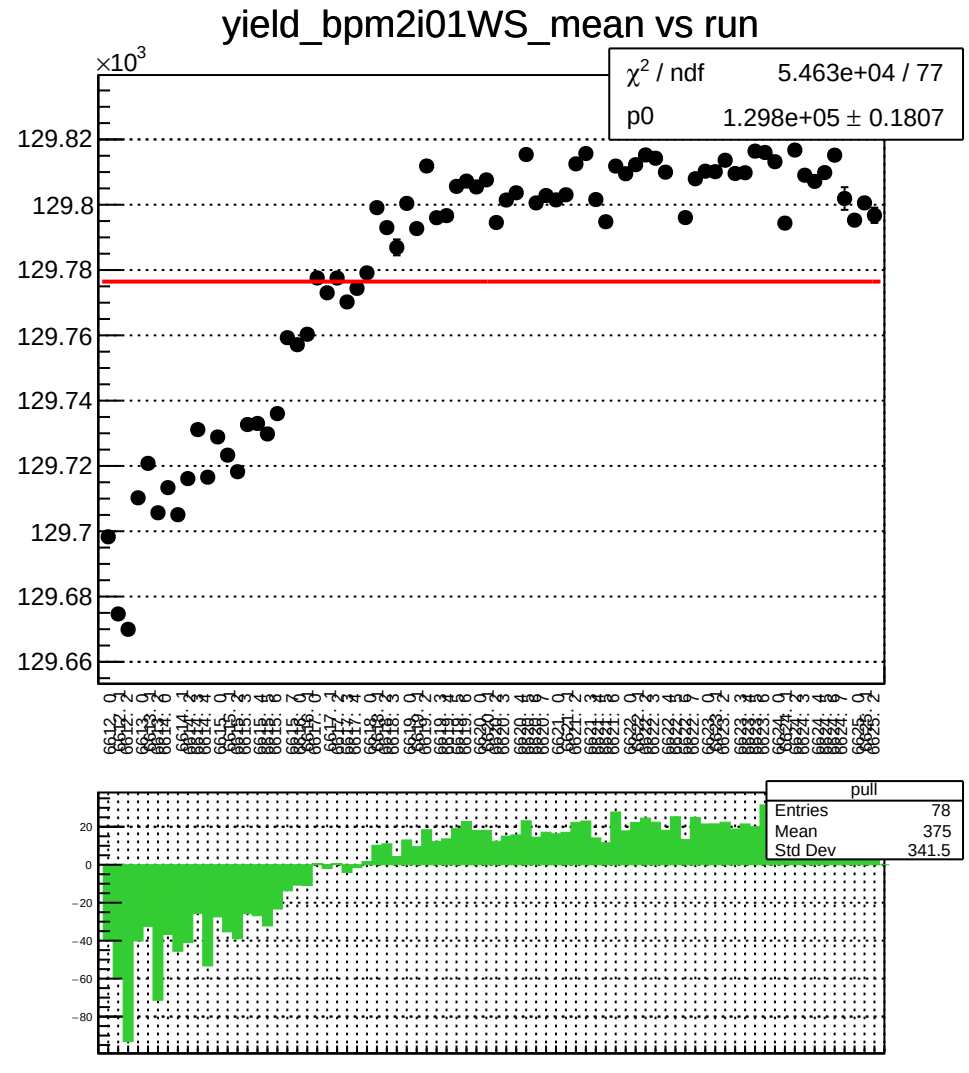
yield_cav4dQ_rms vs run

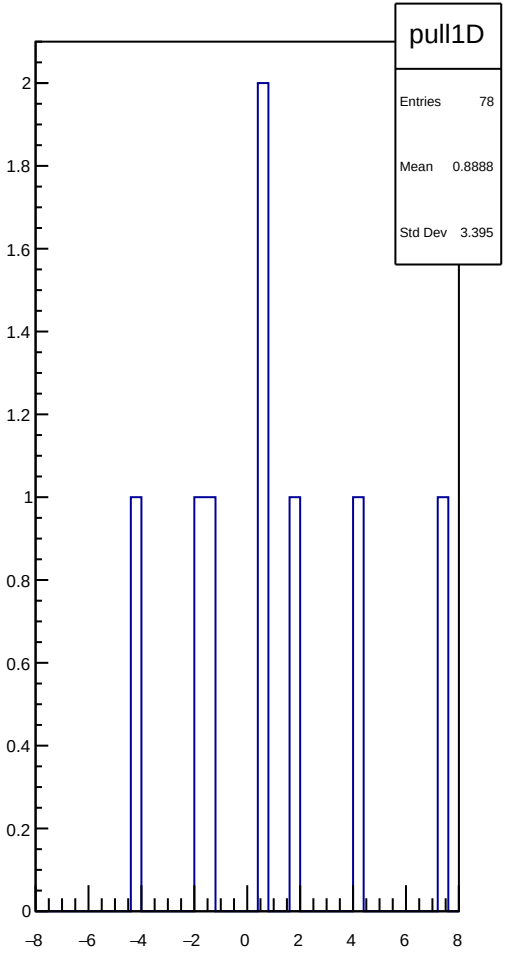


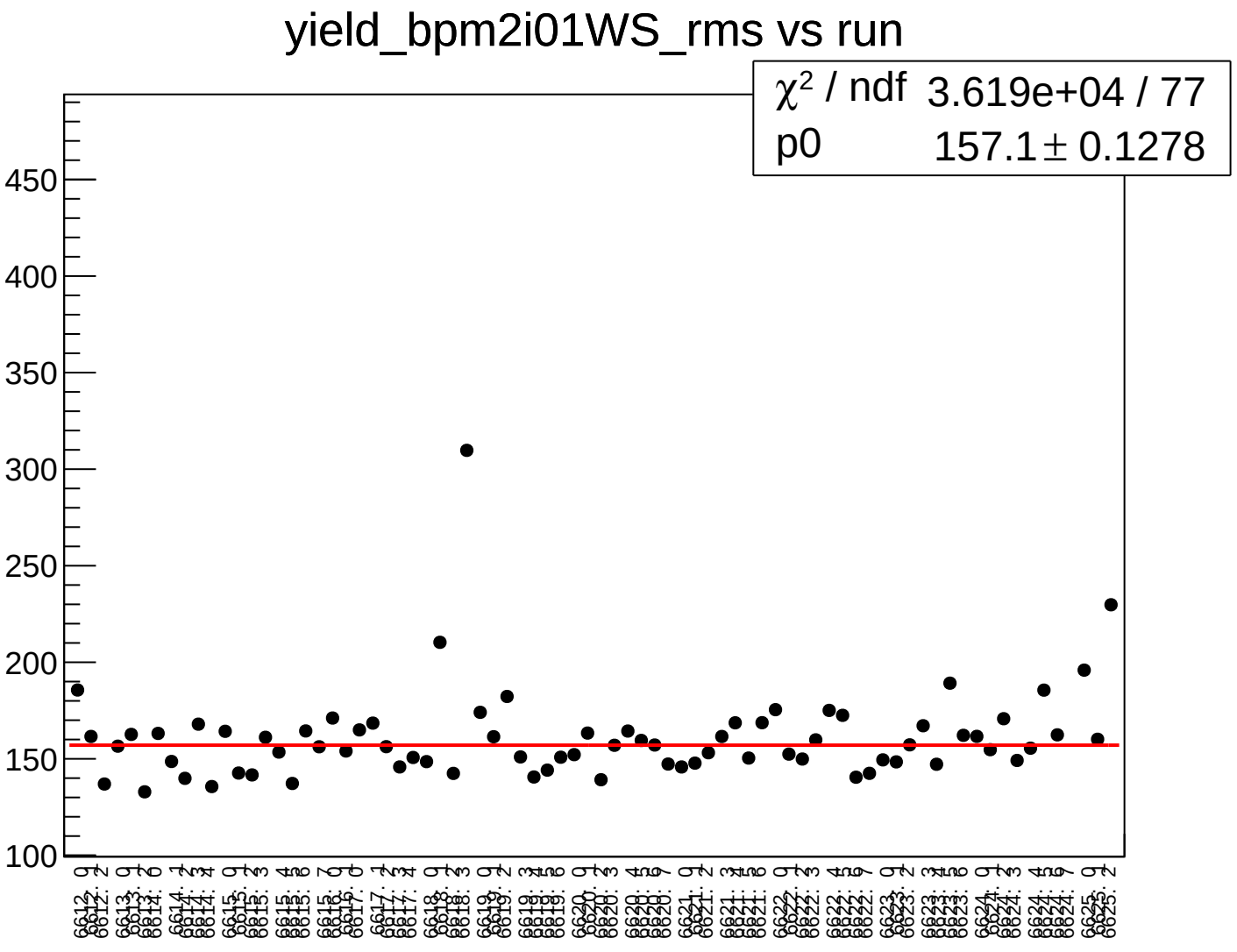

yield_bcm0l02_mean vs run
χ² / ndf 9.38e+07 / 77
p0 148.6 ± 0.001096
155
150
145
140
135
130
125
pull
Entries 78
Mean 71.5
Std Dev 17.31
1000
0
−1000
−2000
−3000
−4000

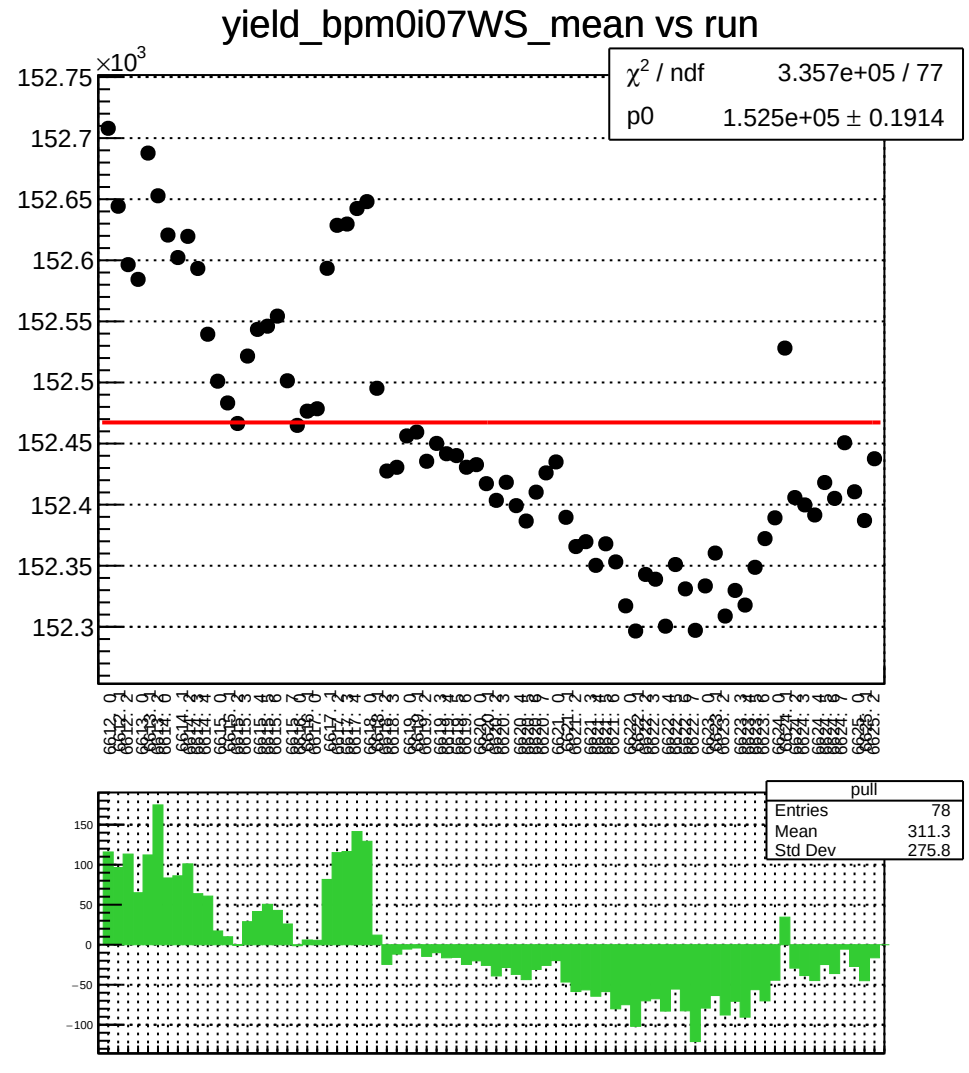

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

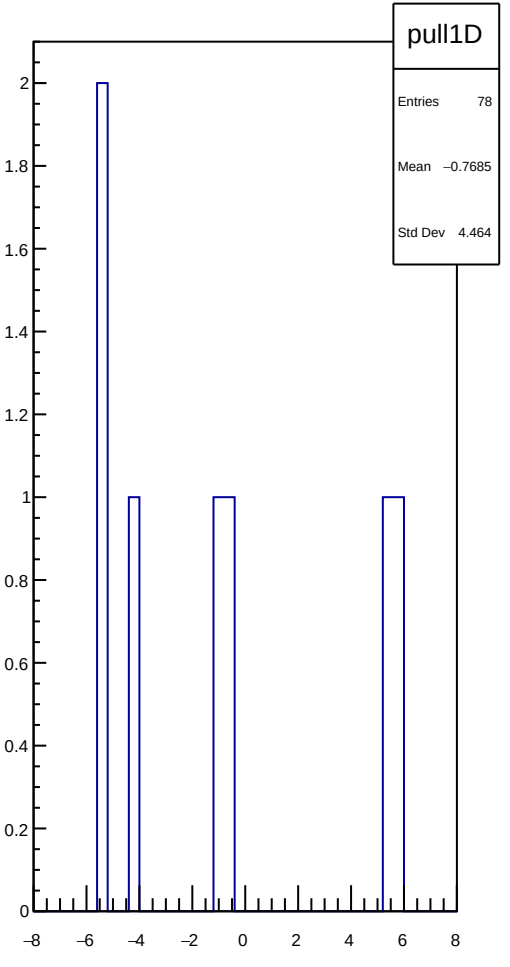

yield_bcm0l02_rms vs run
χ² / ndf 4.93e+05 / 77
p0 0.796 ± 0.0007751
16
14
12
10
8
6
4
2

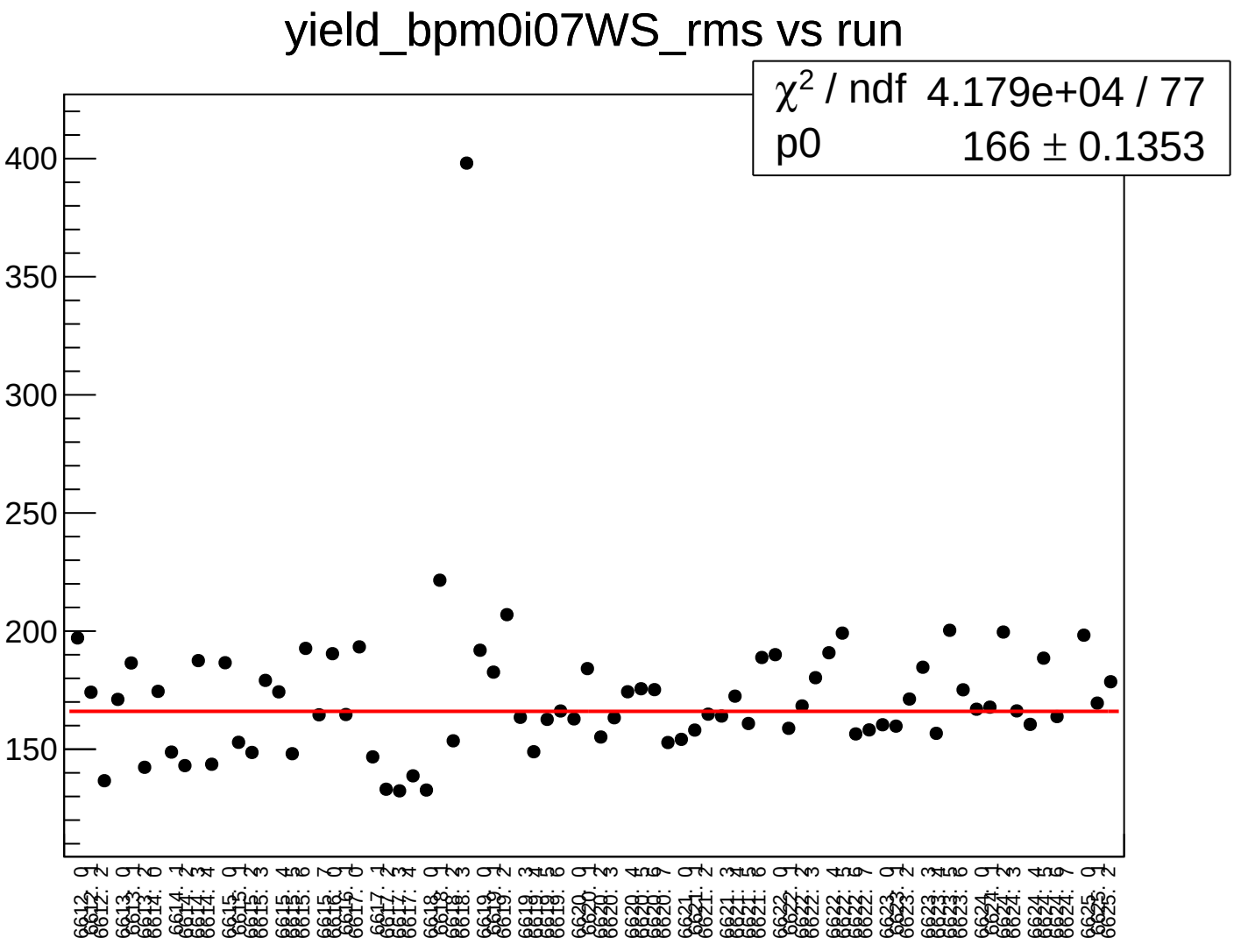

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.463e+04 / 77
p0 1.298e+05 ± 0.1807
129.82
129.8
129.78
129.76
129.74
129.72
129.7
129.68
129.66
pull
Entries 78
Mean 375
Std Dev 341.5
20
0
−20
−40
−60
−80

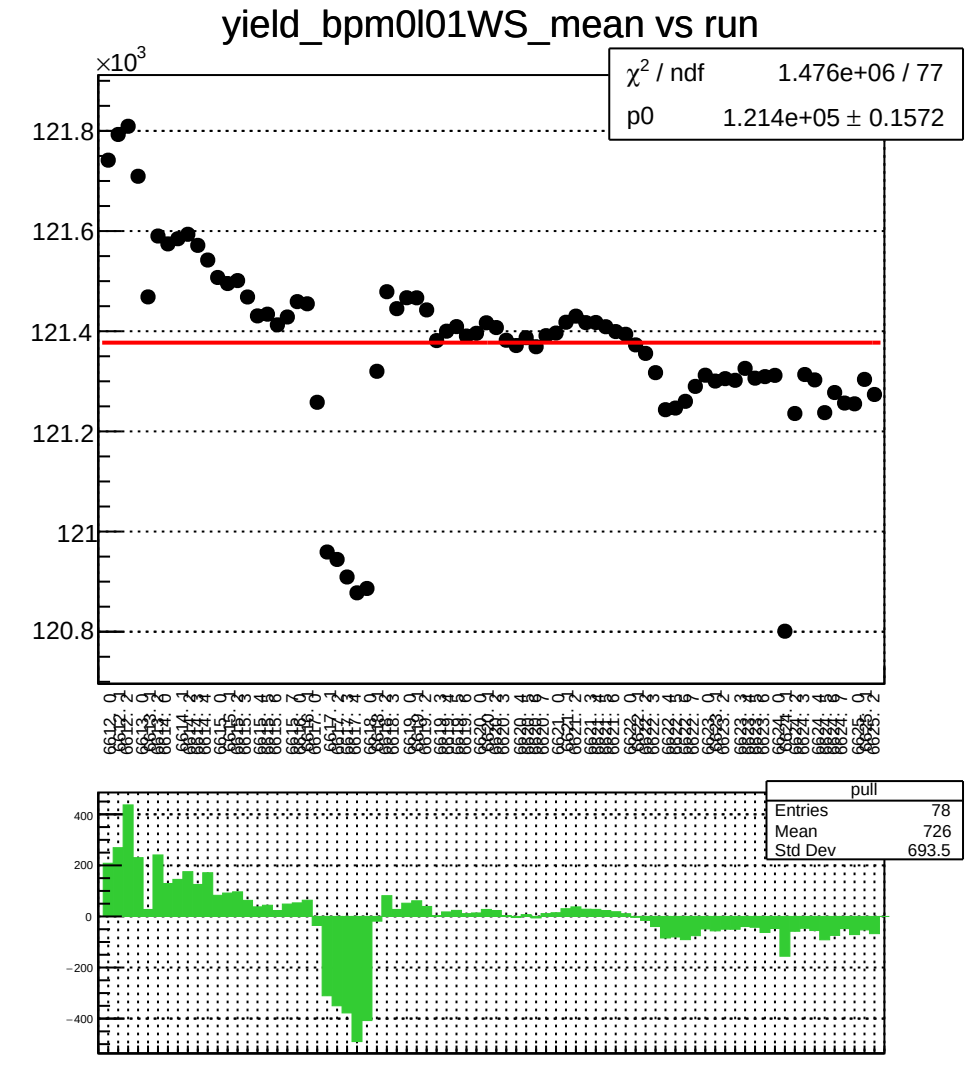

pull1D
Entries 78
Mean 0.8888
Std Dev 3.395
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

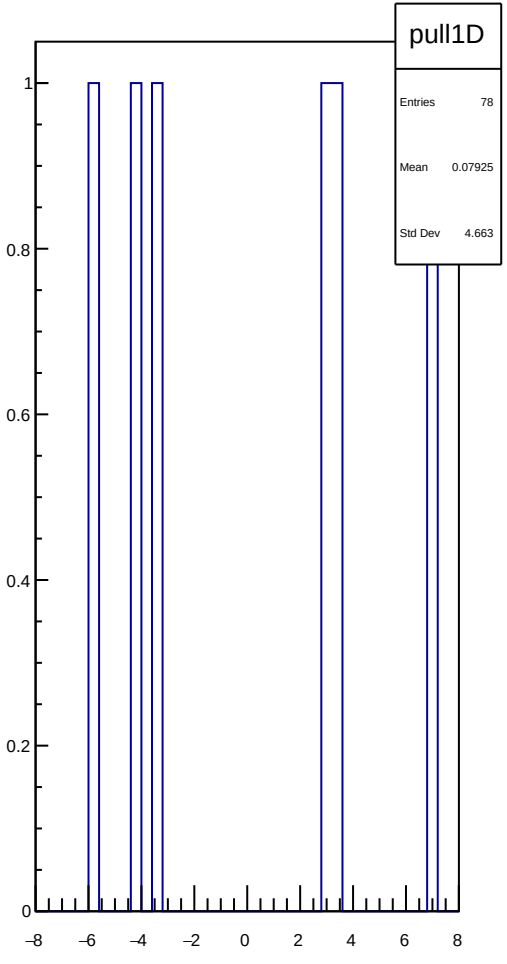

yield_bpm2i01WS_rms vs run
χ² / ndf 3.619e+04 / 77
p0 157.1 ± 0.1278
450
400
350
300
250
200
150
100

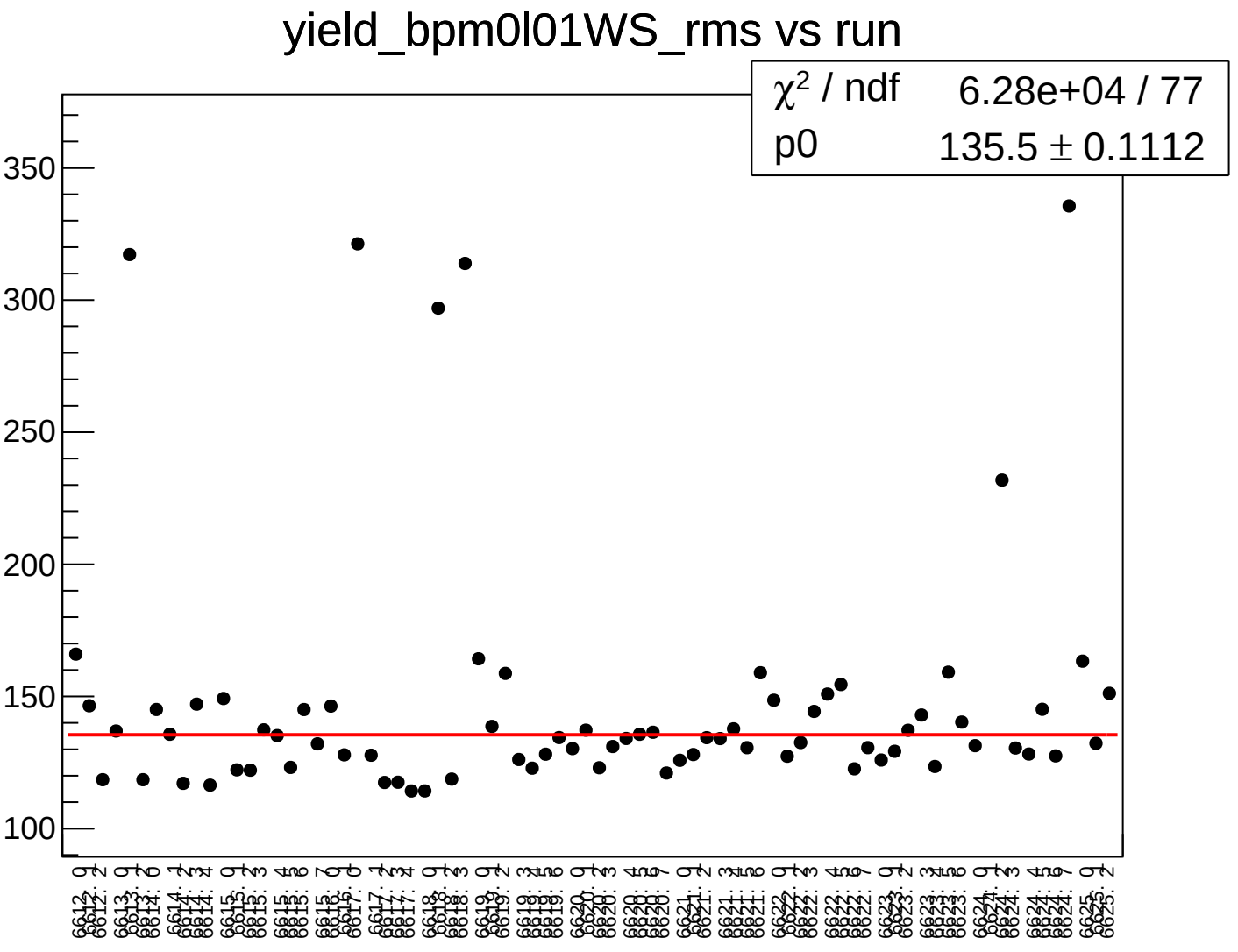

yield_bpm0i07WS_mean vs run
χ² / ndf 3.357e+05 / 77
p0 1.525e+05 ± 0.1914
×10³
152.75
152.7
152.65
152.6
152.55
152.5
152.45
152.4
152.35
152.3
pull
Entries 78
Mean 311.3
Std Dev 275.8
150
100
50
0
−50
−100

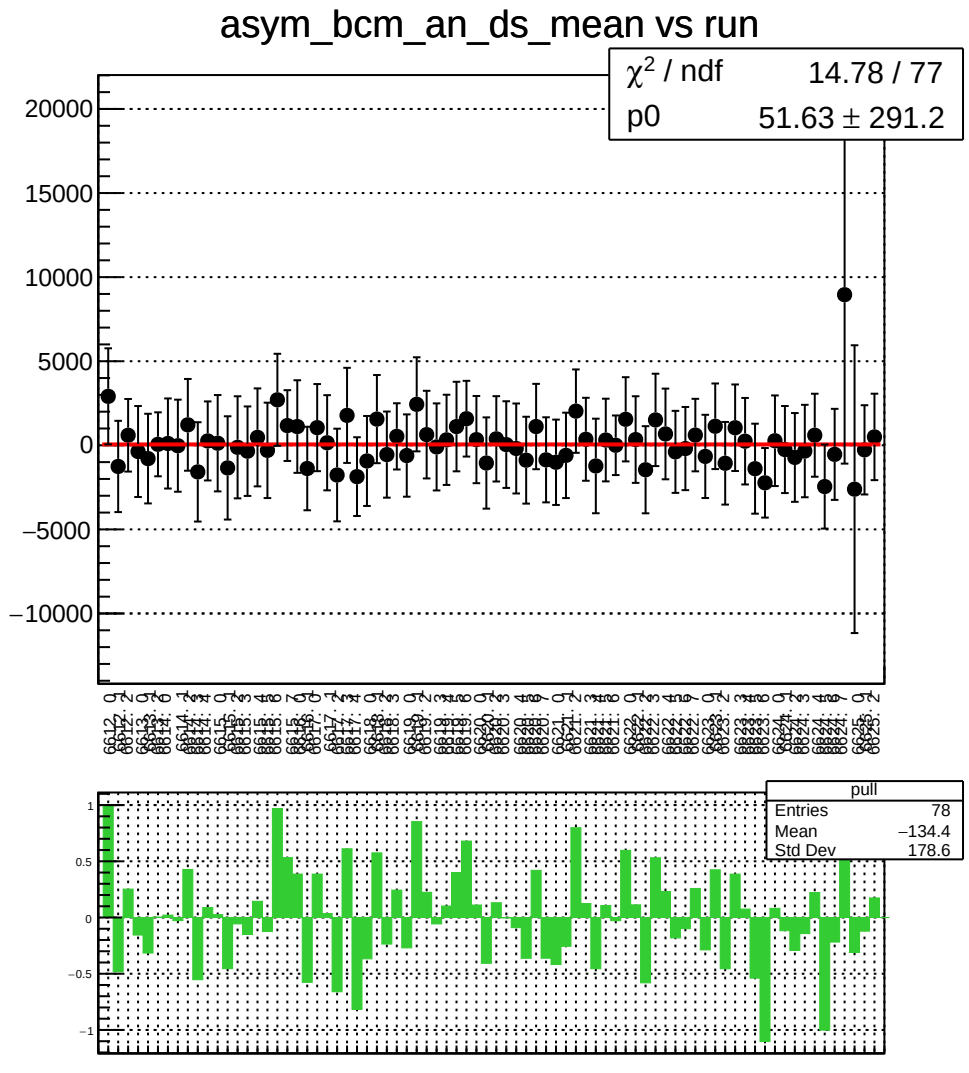

pull1D
Entries 78
Mean −0.7685
Std Dev 4.464
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

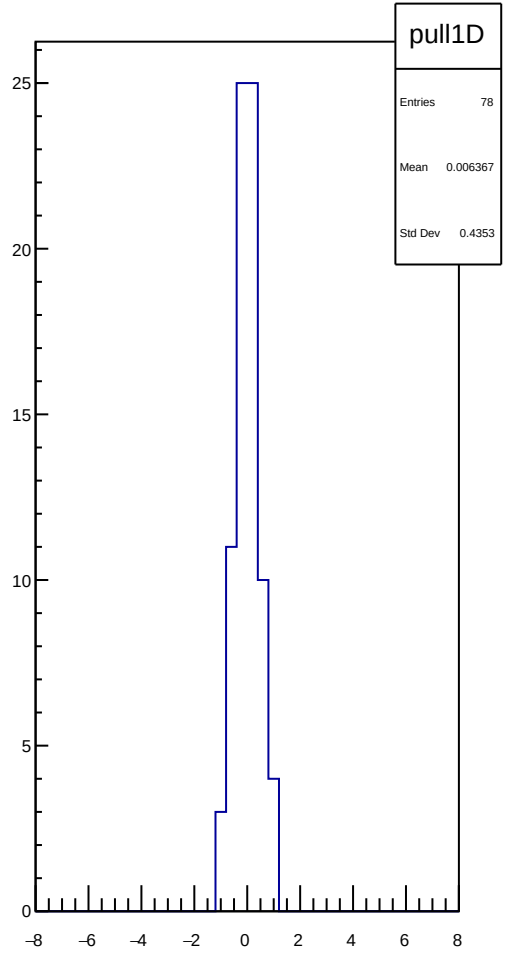

yield_bpm0i07WS_rms vs run
χ² / ndf 4.179e+04 / 77
p0 166 ± 0.1353
400
350
300
250
200
150

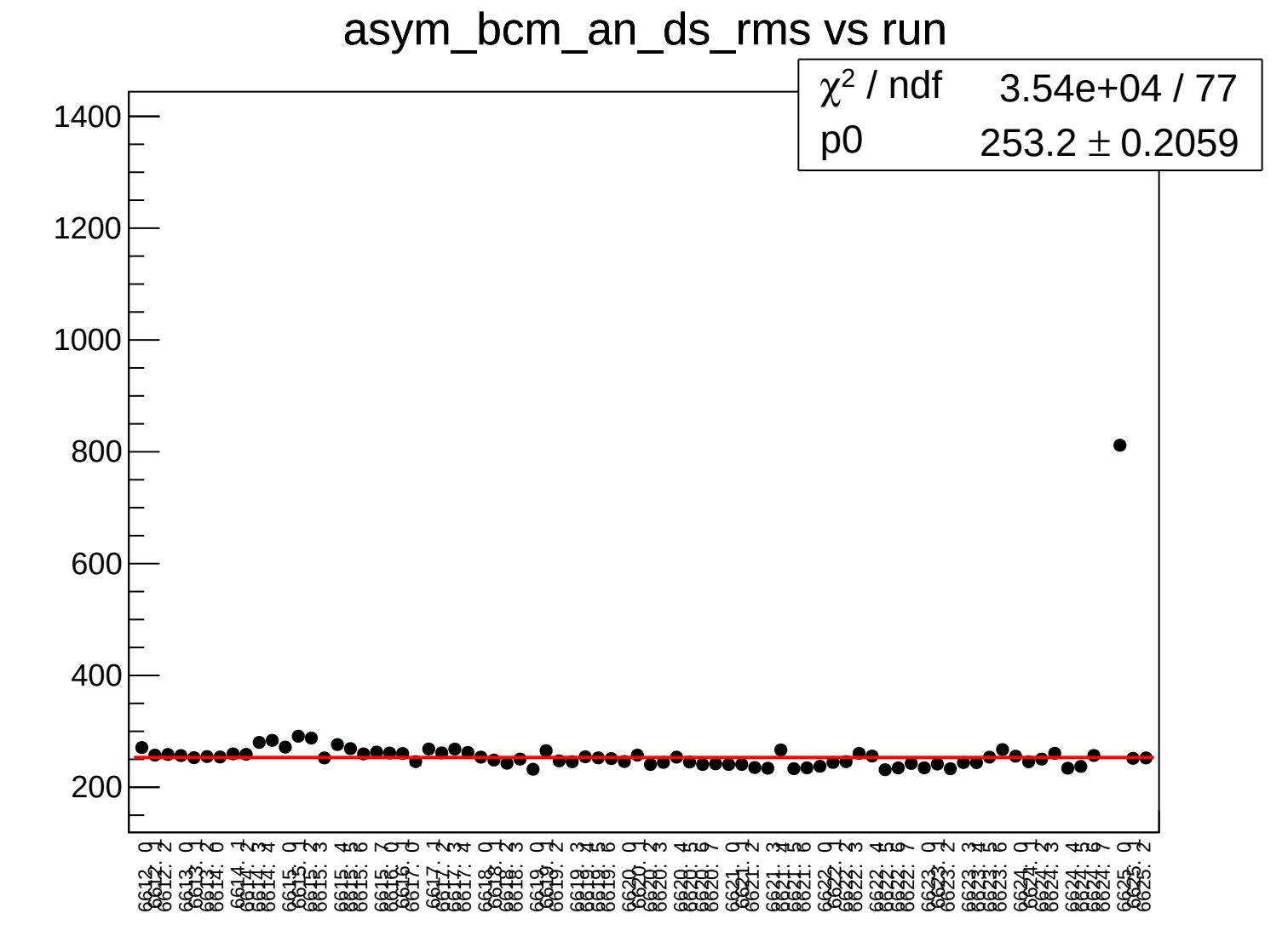

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.476e+06 / 77
p0 1.214e+05 ± 0.1572
121.8
121.6
121.4
121.2
121
120.8
pull
Entries 78
Mean 726
Std Dev 693.5
400
200
0
−200
−400

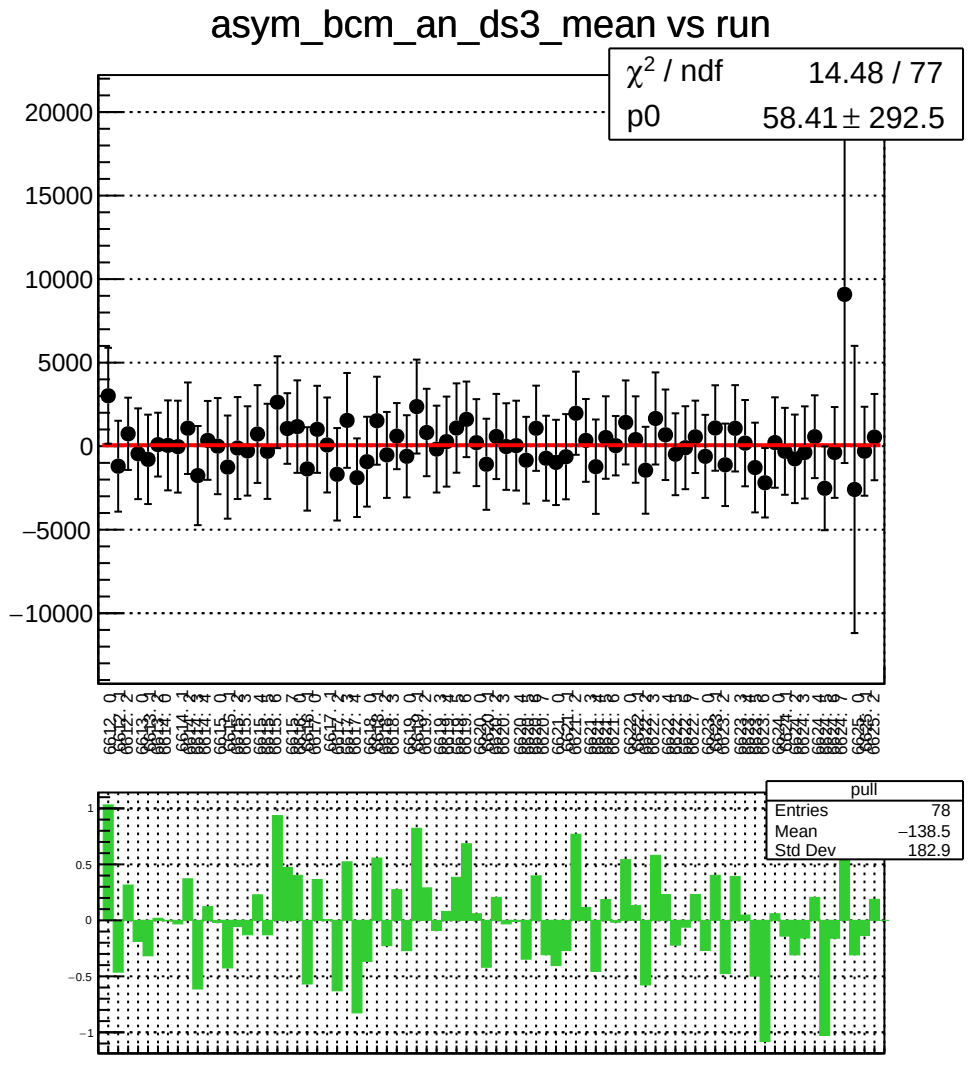

pull1D
Entries 78
Mean 0.07925
Std Dev 4.663
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

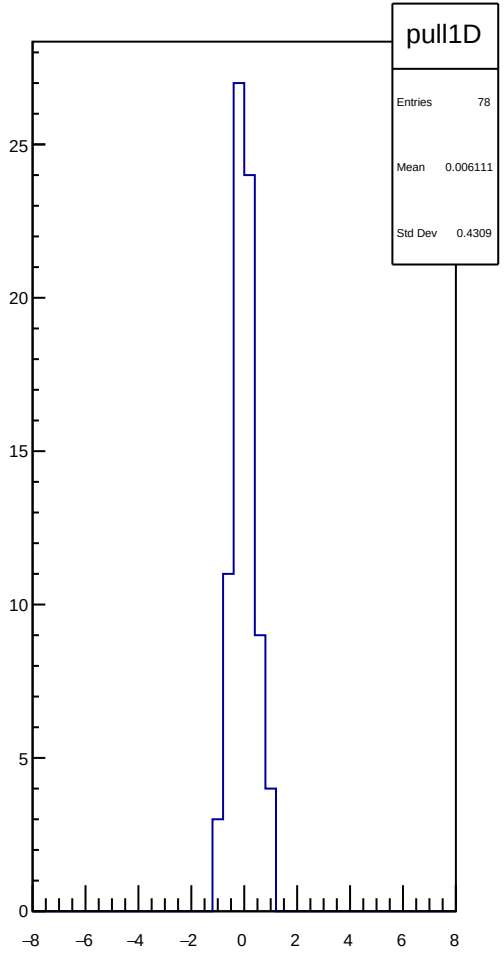

yield_bpm0l01WS_rms vs run
χ² / ndf 6.28e+04 / 77
p0 135.5 ± 0.1112
350
300
250
200
150
100

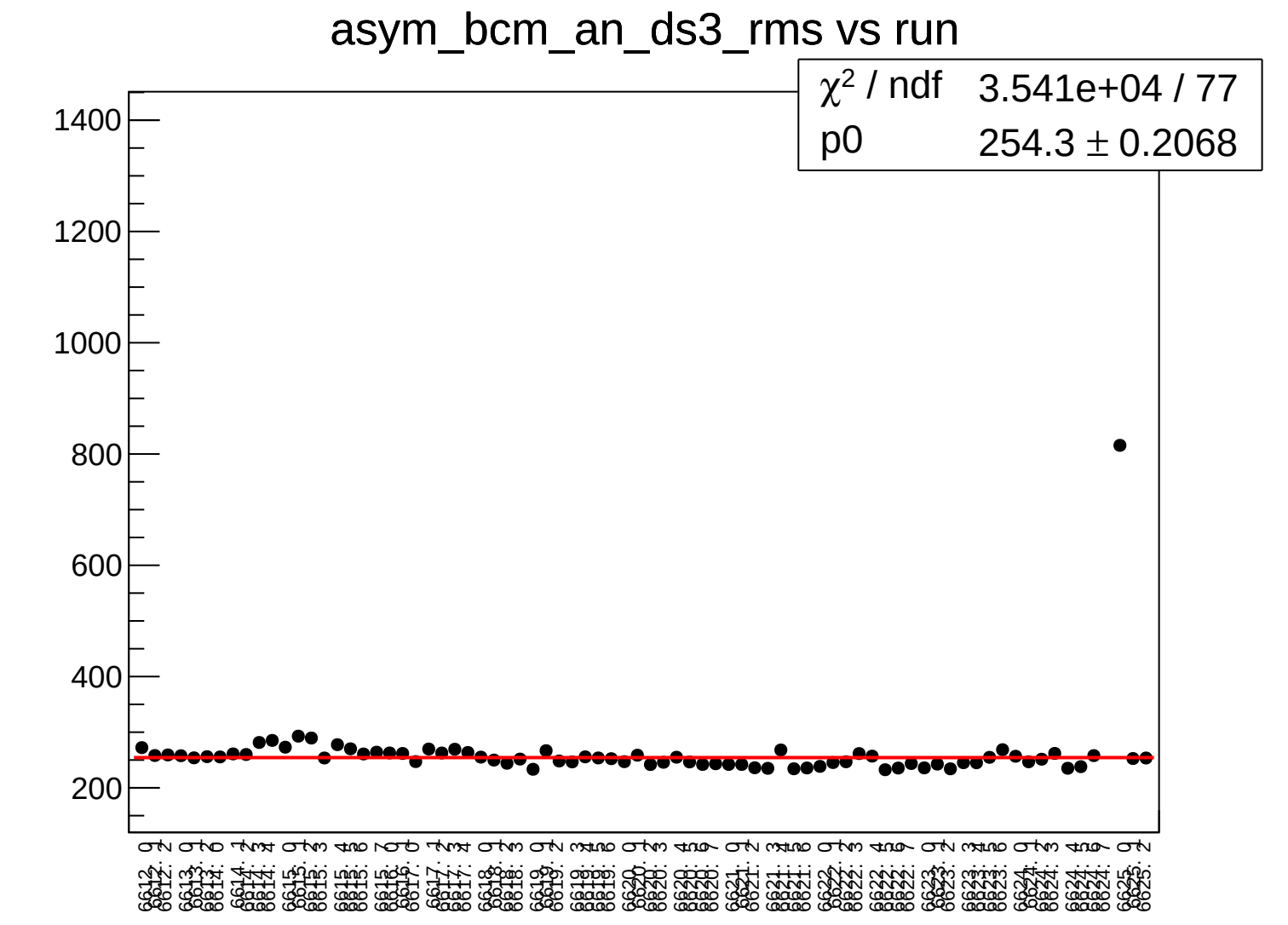

asym_bcm_an_ds_mean vs run
χ² / ndf 14.78 / 77
p0 51.63 ± 291.2
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −134.4
Std Dev 178.6
1
0.5
0
−0.5
−1

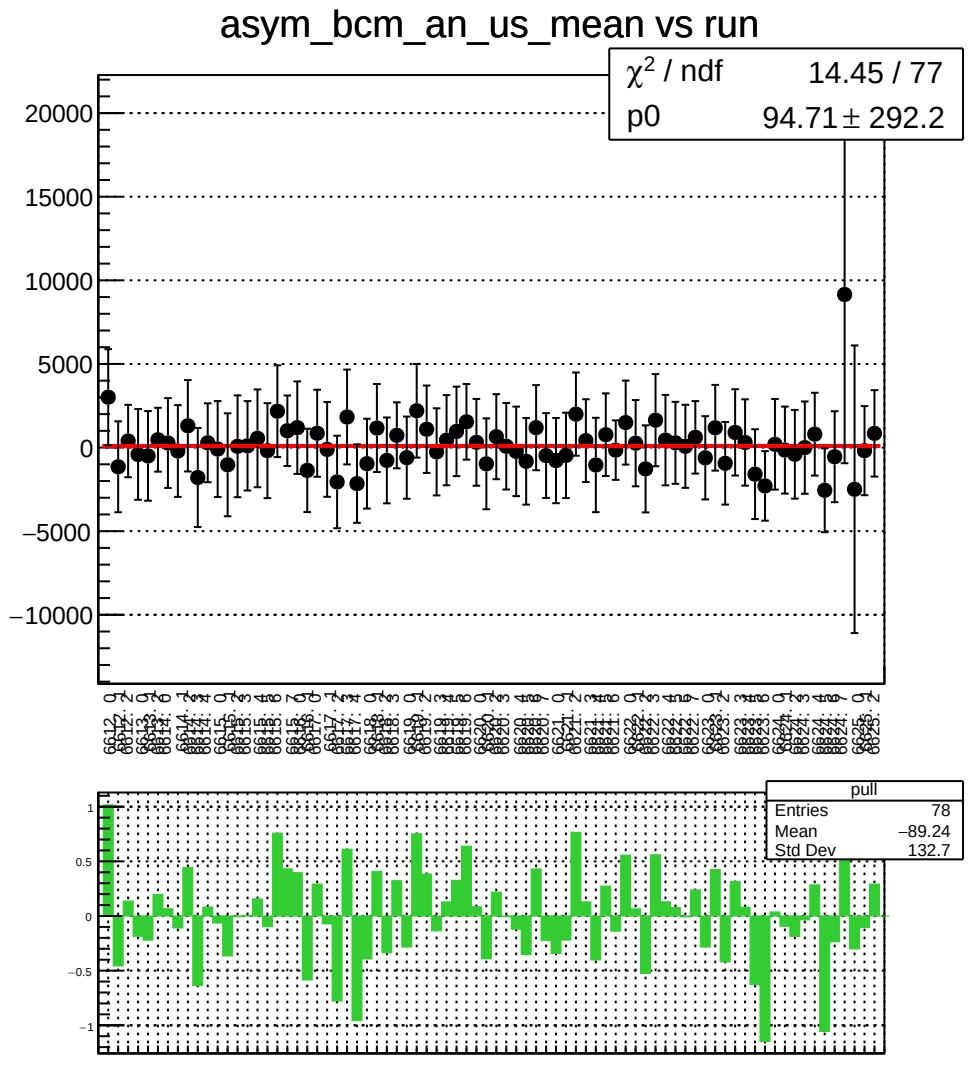

pull1D
Entries 78
Mean 0.006367
Std Dev 0.4353
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

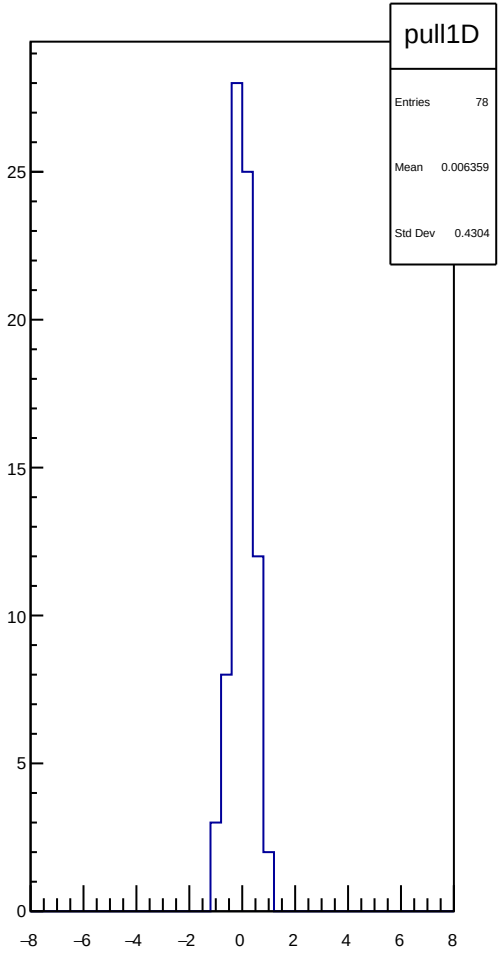

asym_bcm_an_ds_rms vs run
χ² / ndf 3.54e+04 / 77
p0 253.2 ± 0.2059
1400
1200
1000
800
600
400
200

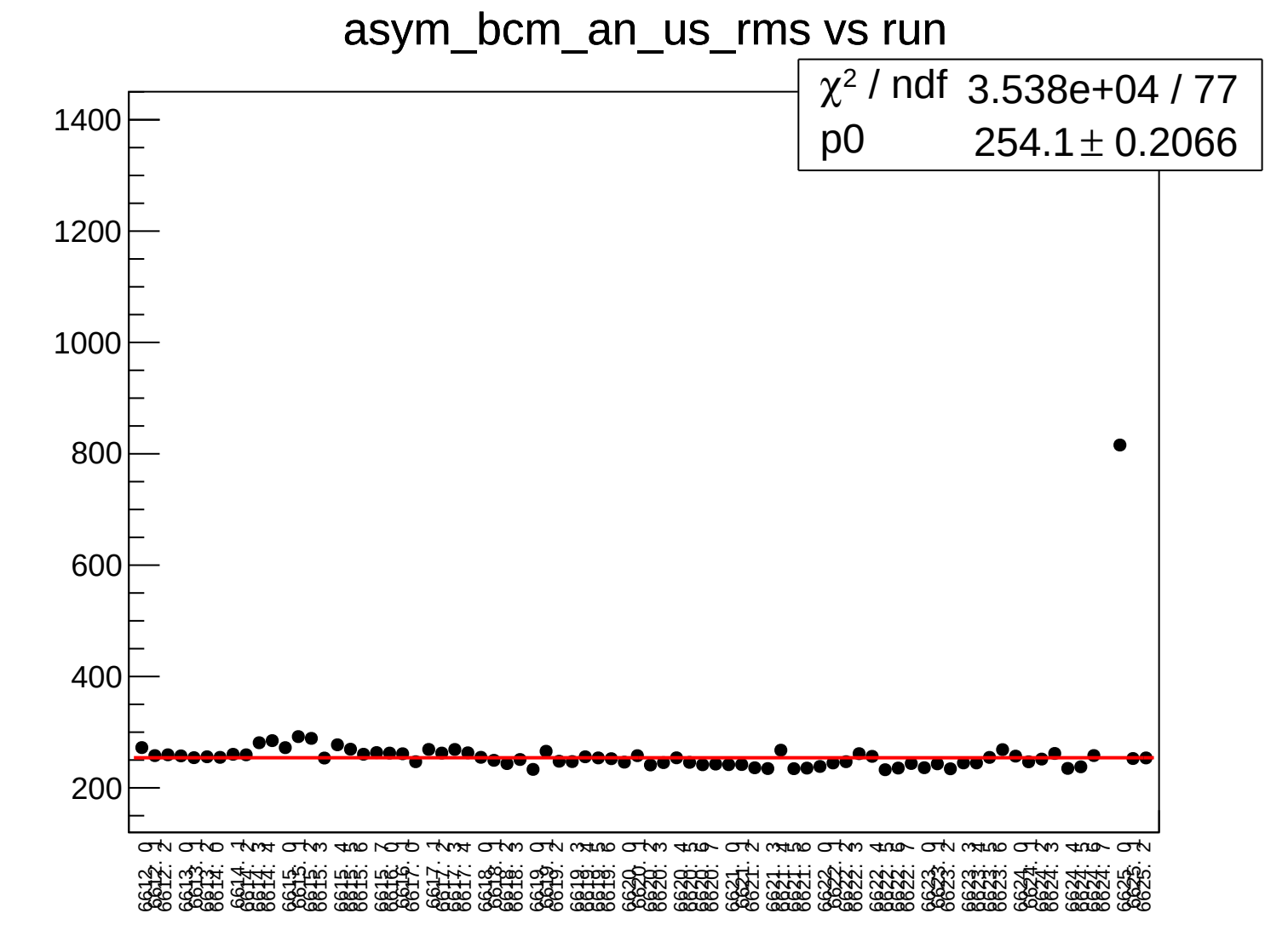

asym_bcm_an_ds3_mean vs run
χ² / ndf 14.48 / 77
p0 58.41 ± 292.5
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −138.5
Std Dev 182.9
1
0.5
0
−0.5
−1

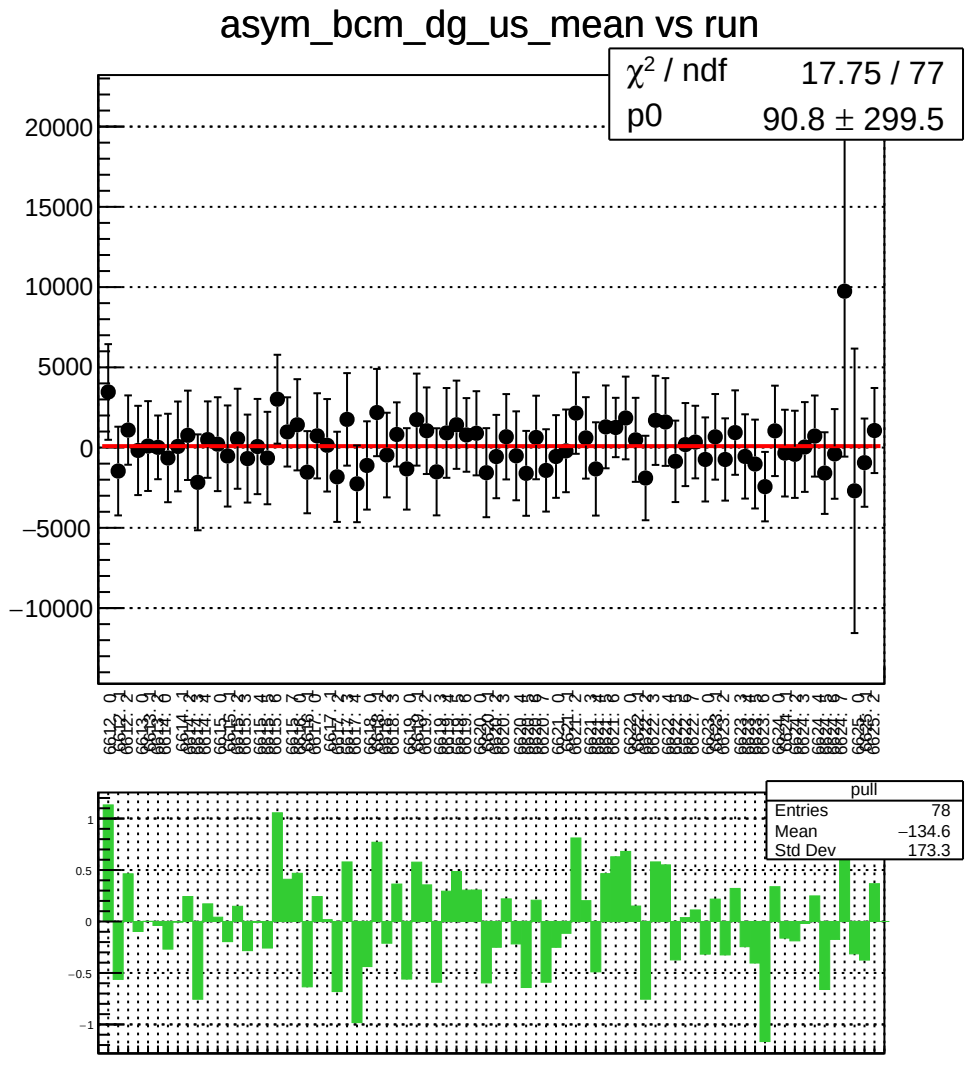

pull1D
Entries 78
Mean 0.006111
Std Dev 0.4309
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

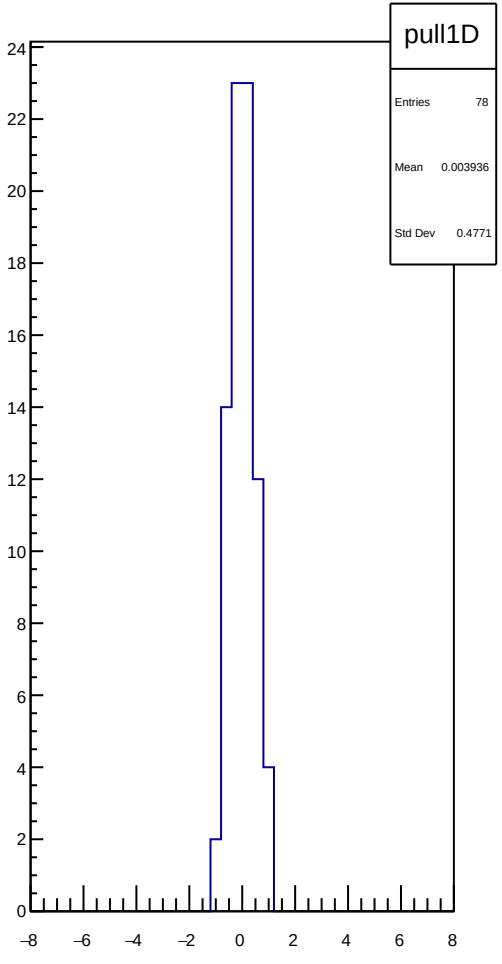

asym_bcm_an_ds3_rms vs run
χ² / ndf 3.541e+04 / 77
p0 254.3 ± 0.2068
1400
1200
1000
800
600
400
200

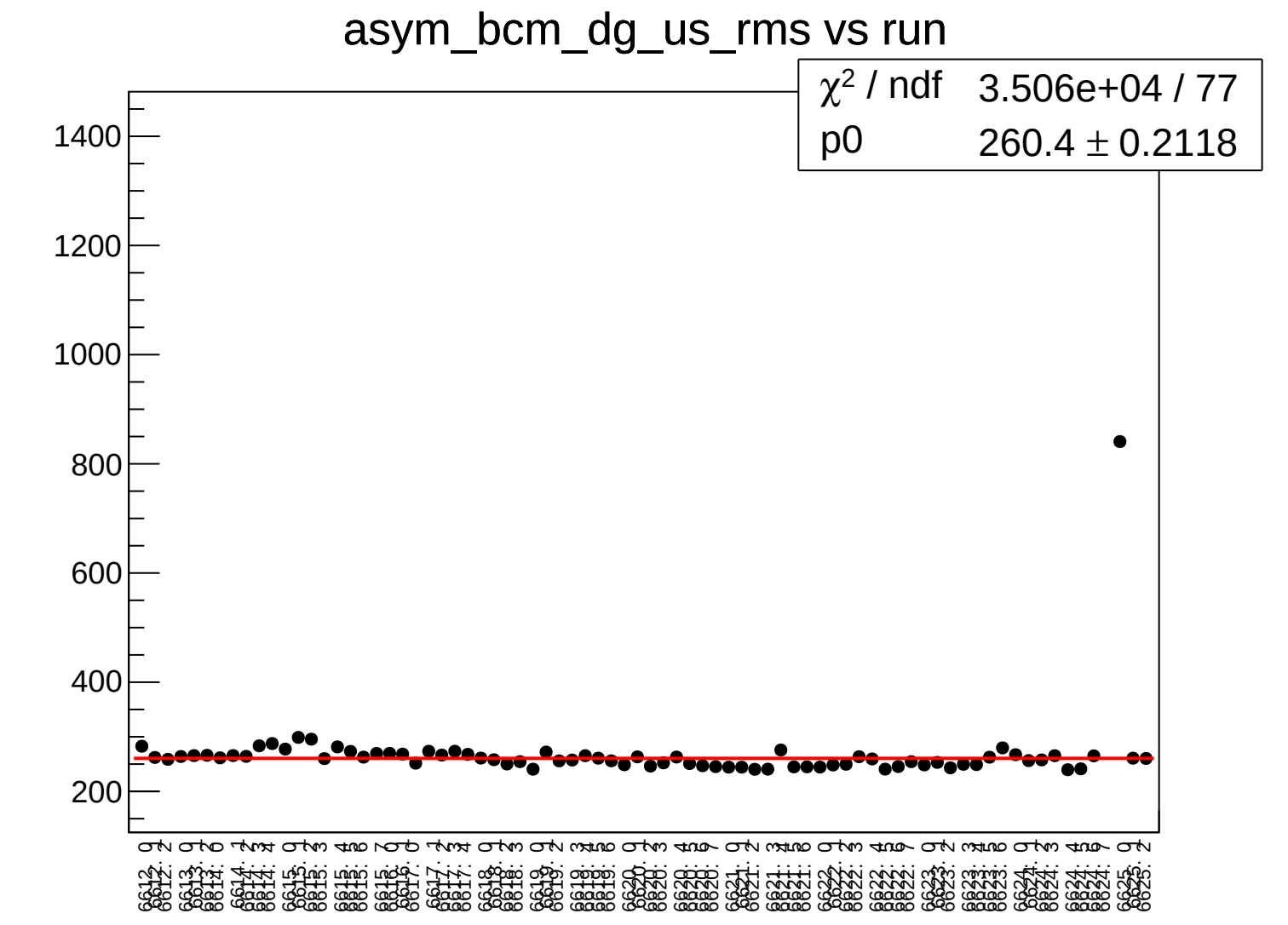

asym_bcm_an_us_mean vs run
χ² / ndf 14.45 / 77
p0 94.71 ± 292.2
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −89.24
Std Dev 132.7
1
0.5
0
−0.5
−1

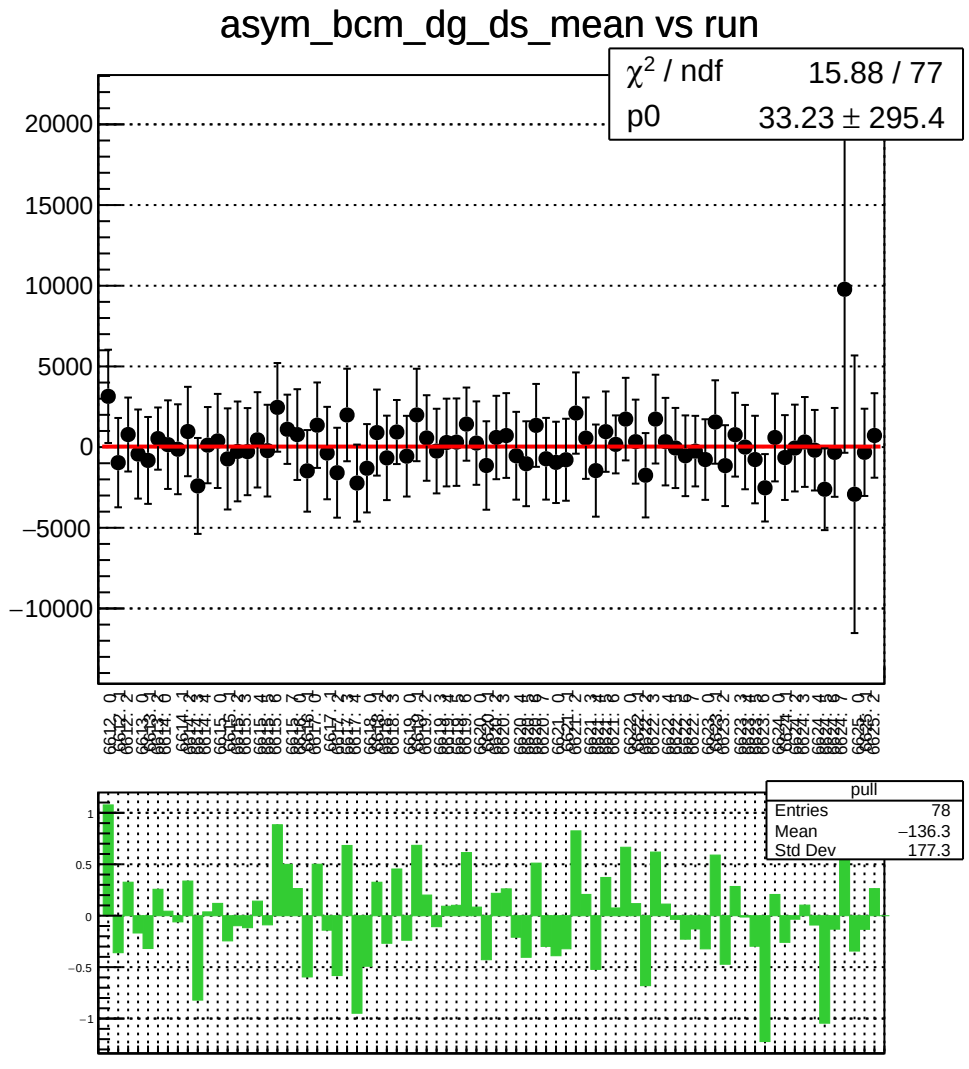

pull1D
Entries 78
Mean 0.006359
Std Dev 0.4304
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

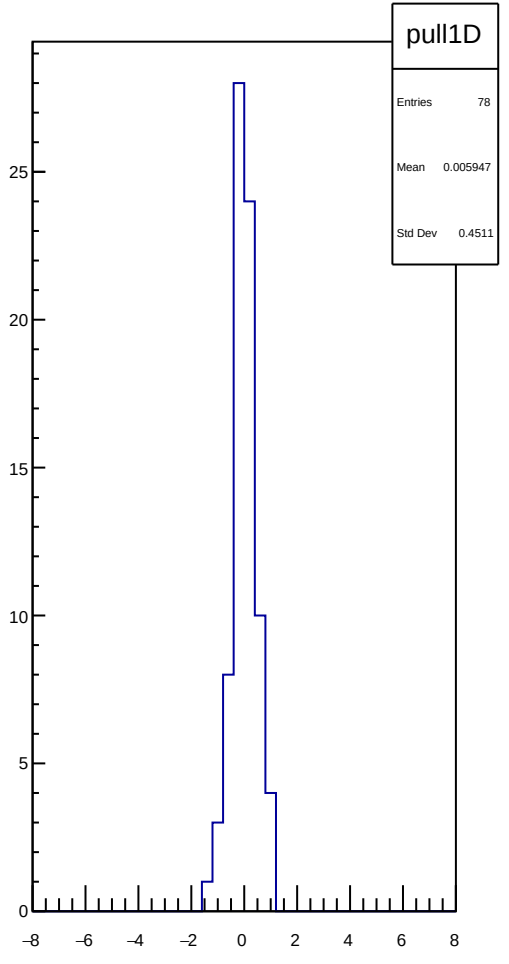

asym_bcm_an_us_rms vs run
χ² / ndf 3.538e+04 / 77
p0 254.1 ± 0.2066
1400
1200
1000
800
600
400
200

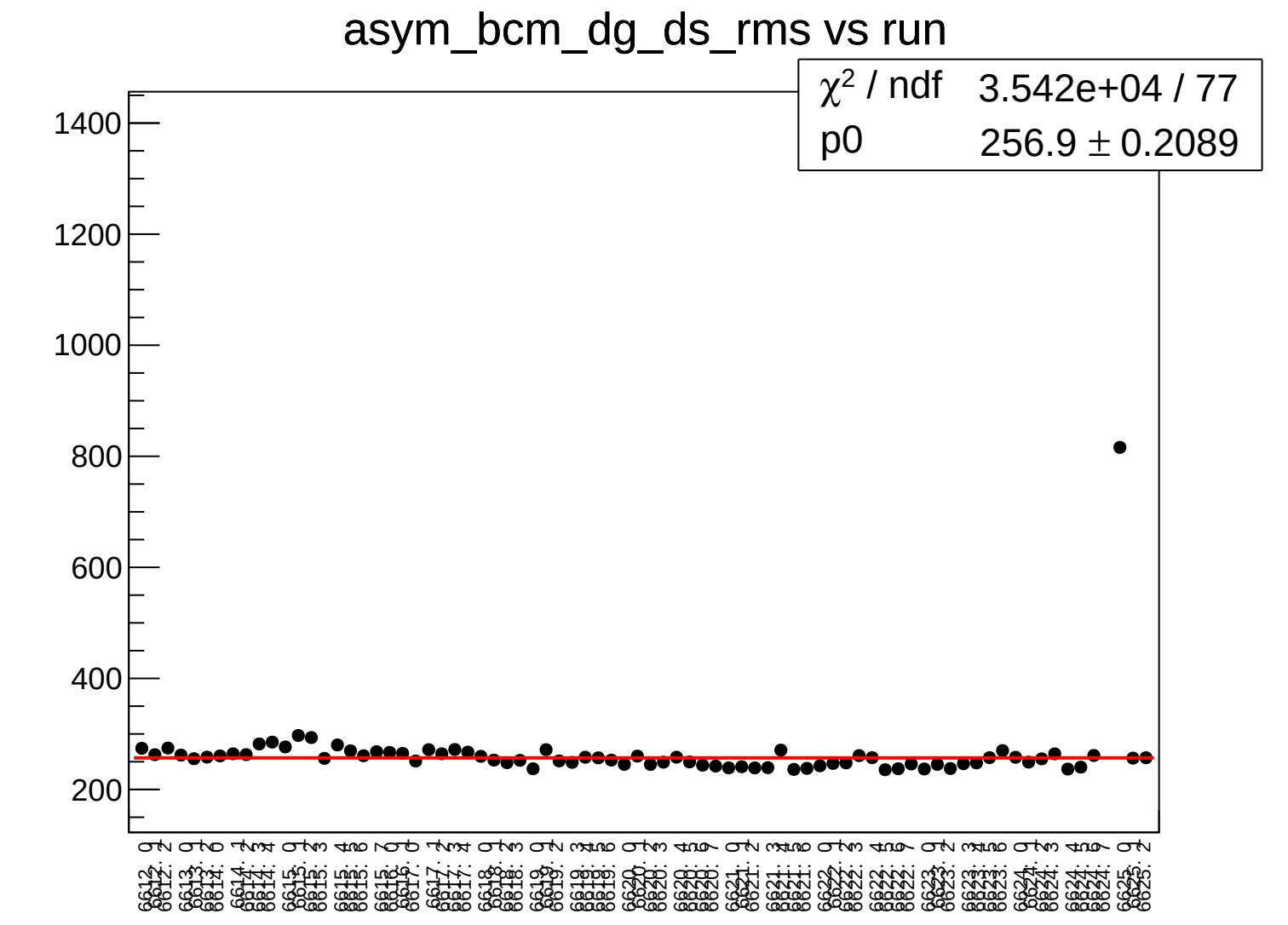

asym_bcm_dg_us_mean vs run
χ² / ndf 17.75 / 77
p0 90.8 ± 299.5
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −134.6
Std Dev 173.3
1
0.5
0
−0.5
−1

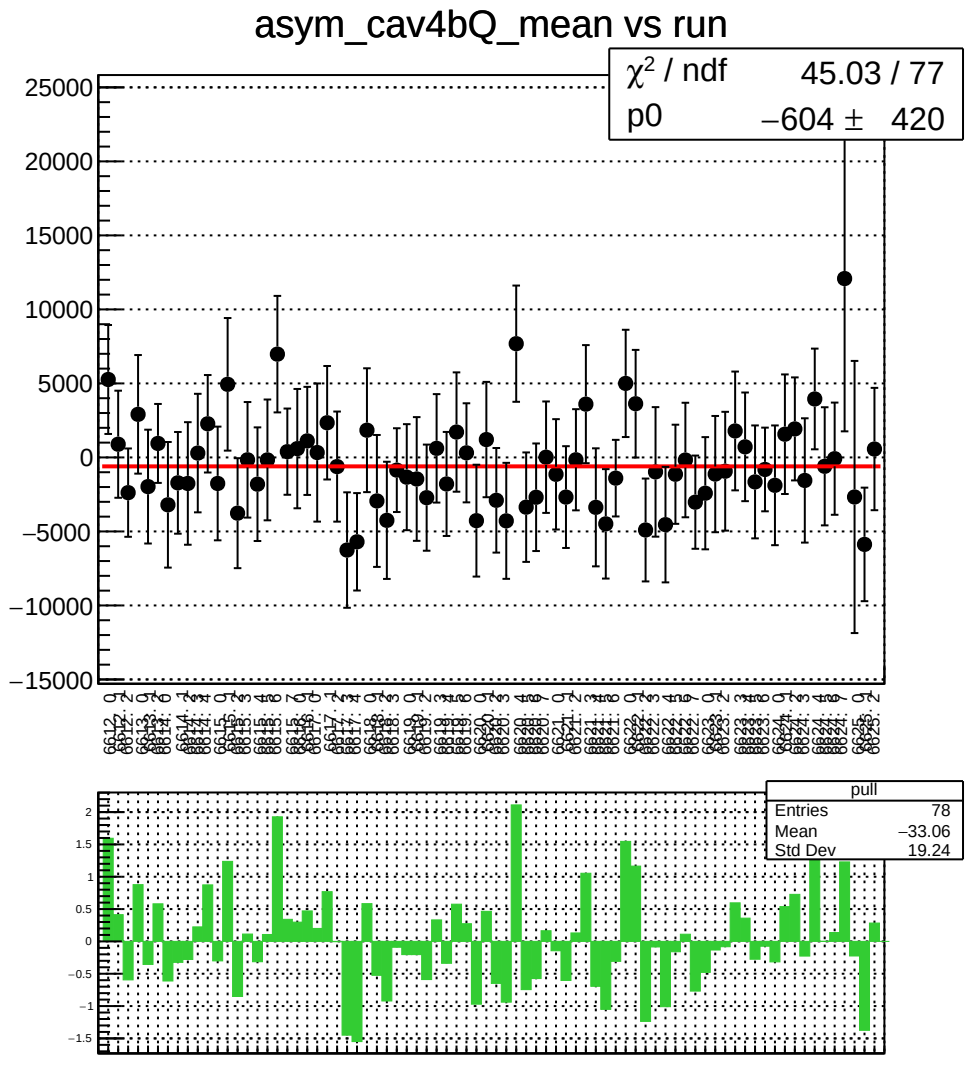

pull1D
Entries 78
Mean 0.003936
Std Dev 0.4771
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

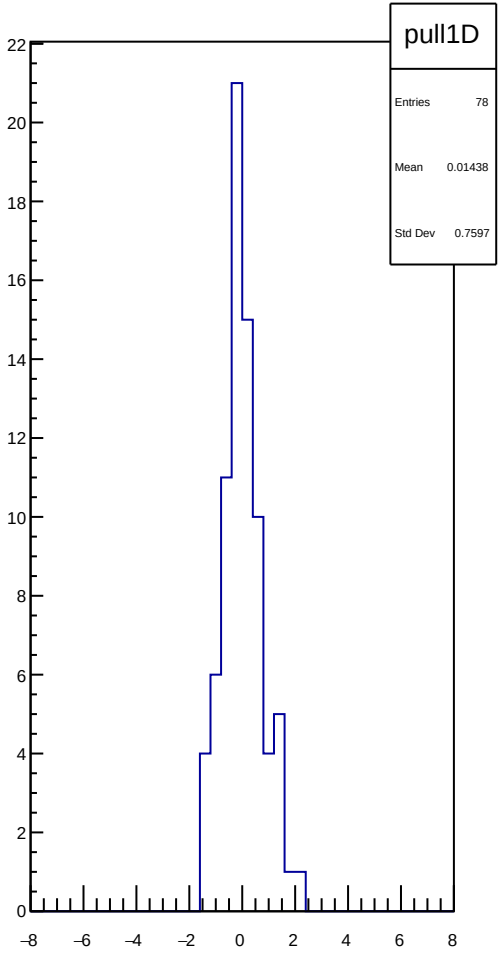

asym_bcm_dg_us_rms vs run
χ² / ndf 3.506e+04 / 77
p0 260.4 ± 0.2118
1400
1200
1000
800
600
400
200

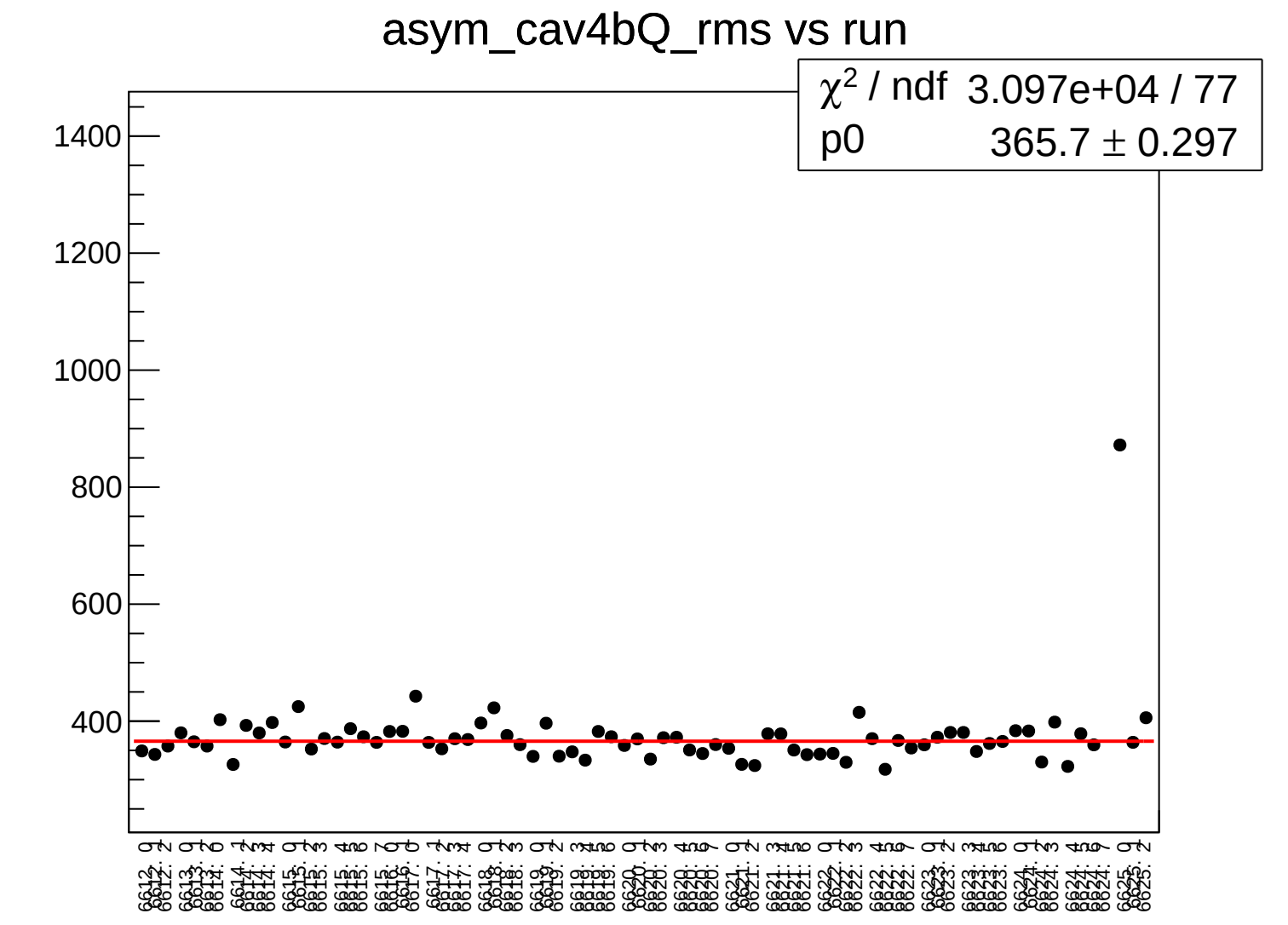

asym_bcm_dg_ds_mean vs run
χ² / ndf 15.88 / 77
p0 33.23 ± 295.4
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −136.3
Std Dev 177.3
1
0.5
0
−0.5
−1

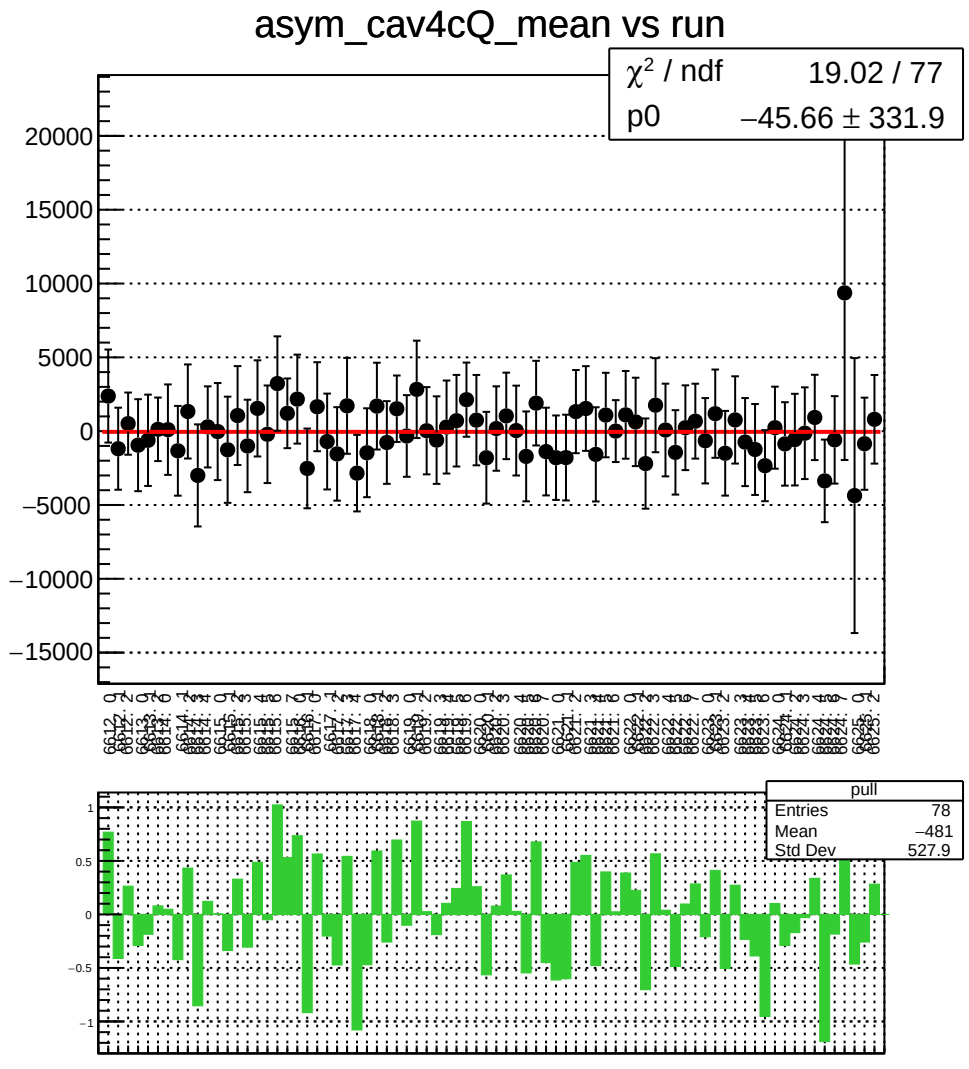

pull1D
Entries 78
Mean 0.005947
Std Dev 0.4511
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

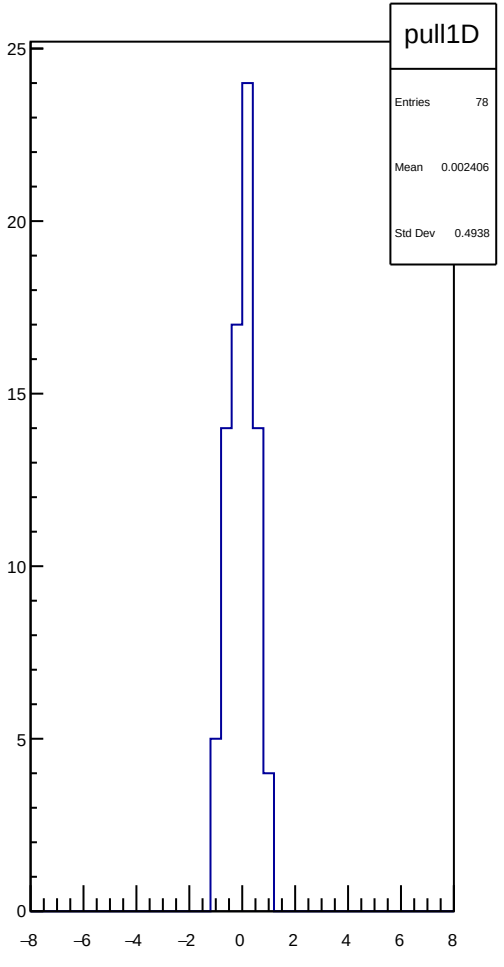

asym_bcm_dg_ds_rms vs run
χ² / ndf 3.542e+04 / 77
p0 256.9 ± 0.2089
1400
1200
1000
800
600
400
200

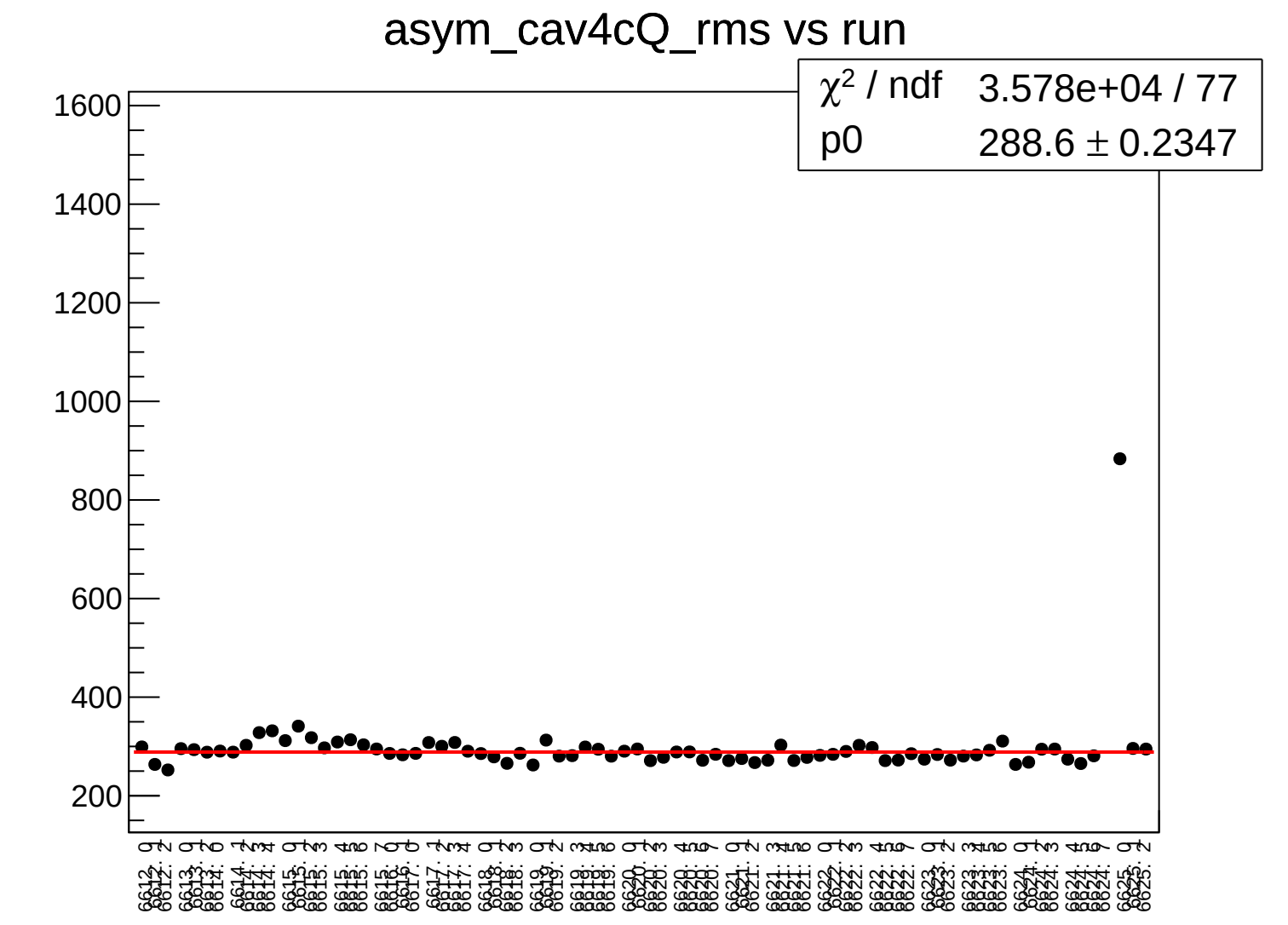

asym_cav4bQ_mean vs run
χ² / ndf 45.03 / 77
p0 −604 ± 420
pull
Entries 78
Mean −33.06
Std Dev 19.24

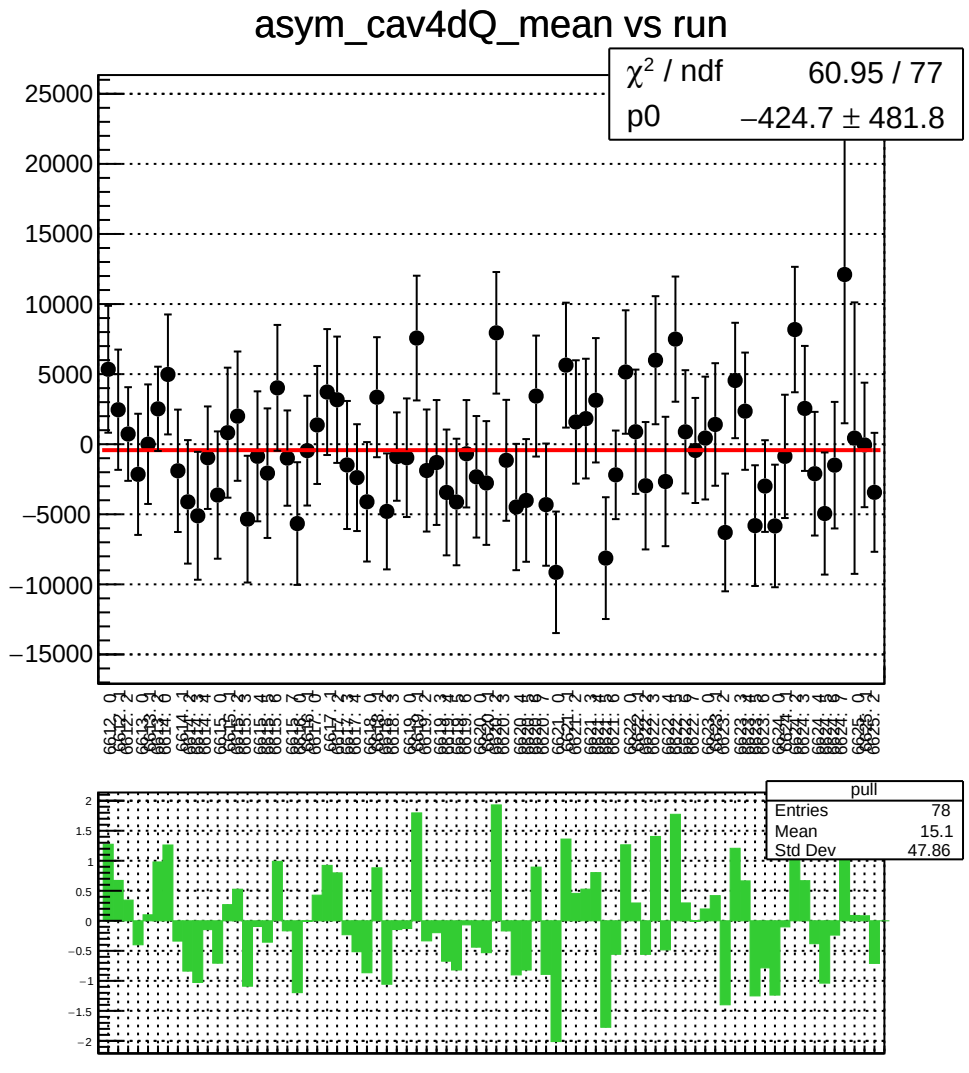

pull1D
Entries 78
Mean 0.01438
Std Dev 0.7597

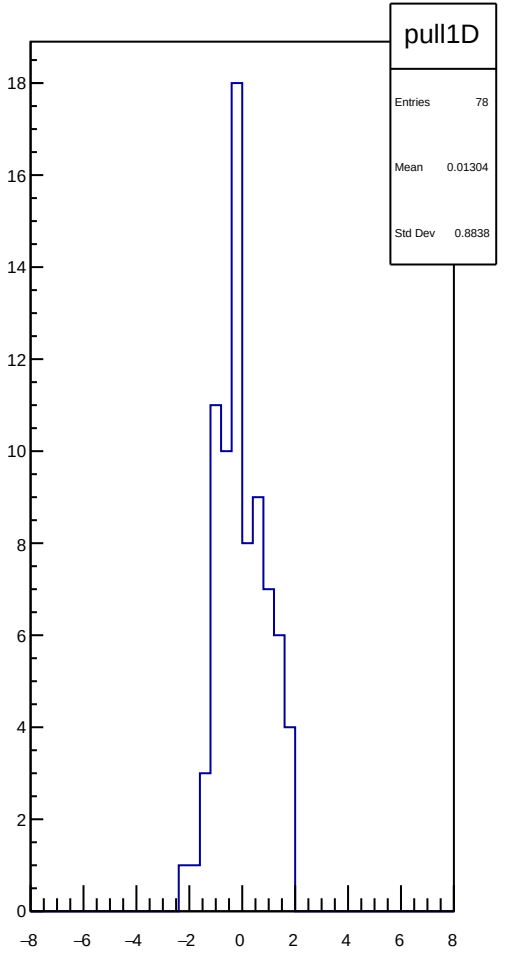

asym_cav4bQ_rms vs run
χ² / ndf 3.097e+04 / 77
p0 365.7 ± 0.297
1400
1200
1000
800
600
400

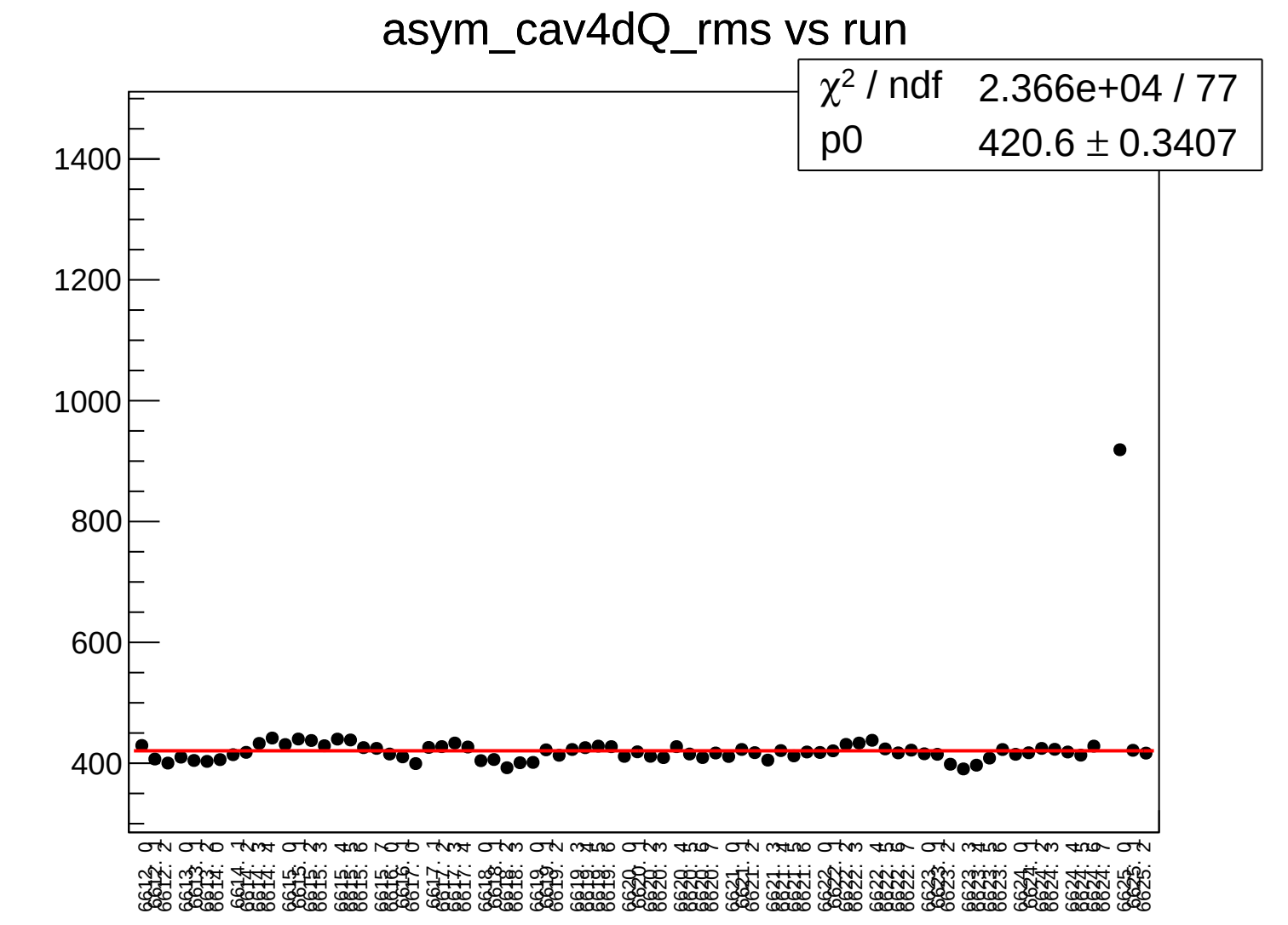

asym_cav4cQ_mean vs run
χ² / ndf 19.02 / 77
p0 −45.66 ± 331.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean −481
Std Dev 527.9
1
0.5
0
−0.5
−1

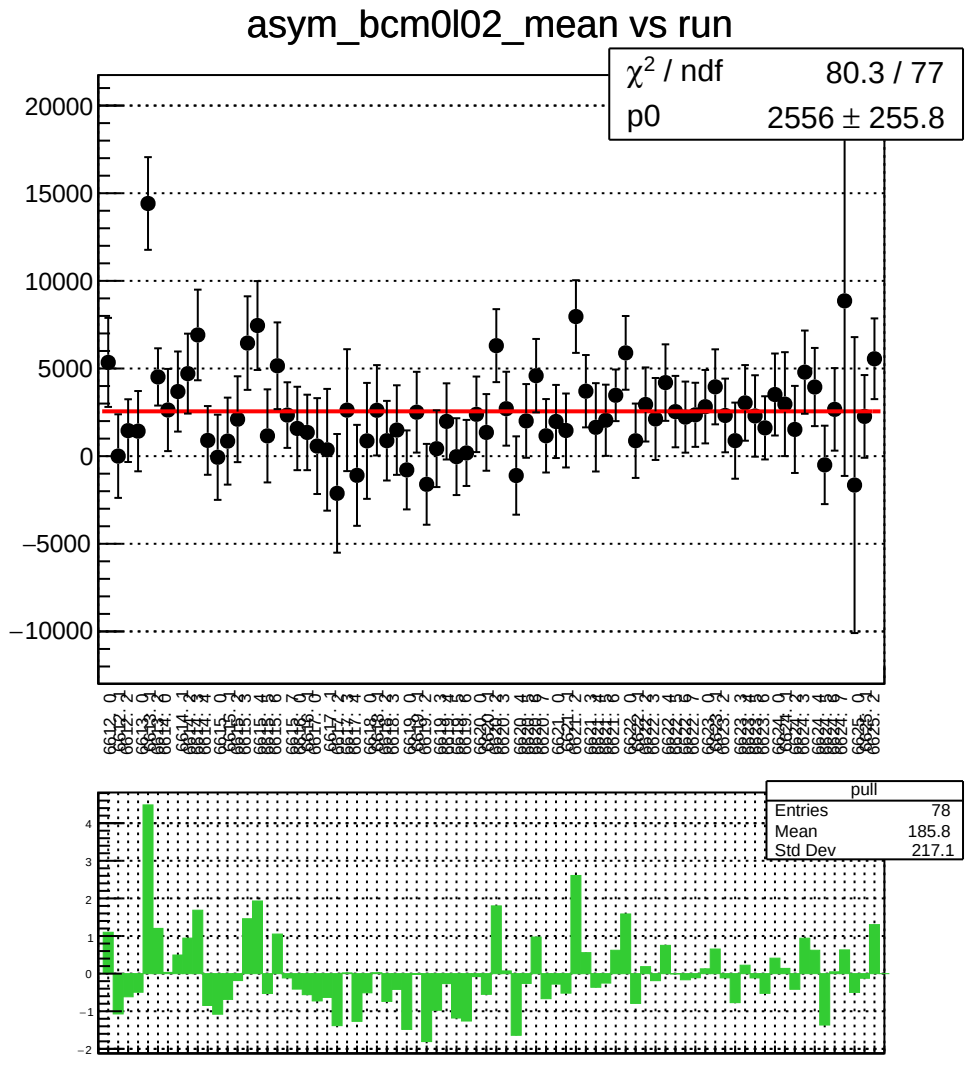

pull1D
Entries 78
Mean 0.002406
Std Dev 0.4938
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

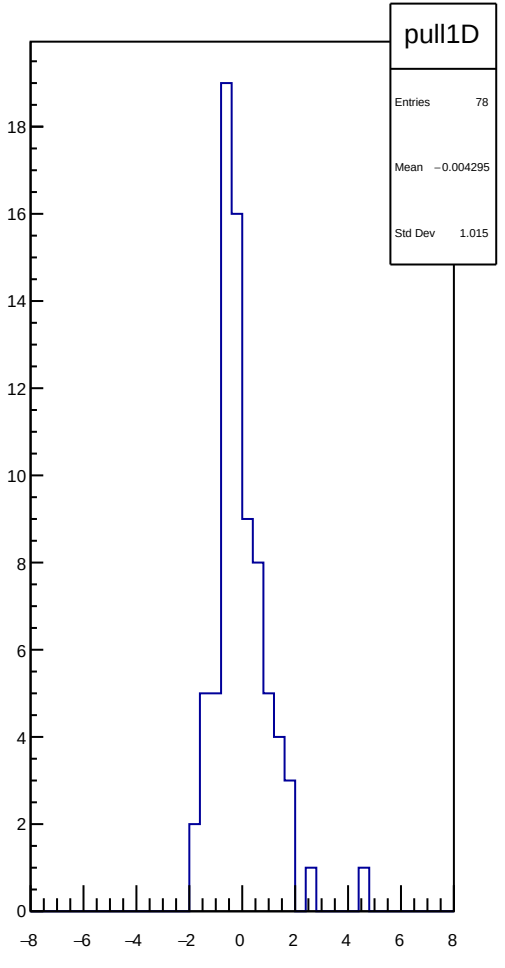

asym_cav4cQ_rms vs run
χ² / ndf 3.578e+04 / 77
p0 288.6 ± 0.2347
1600
1400
1200
1000
800
600
400
200

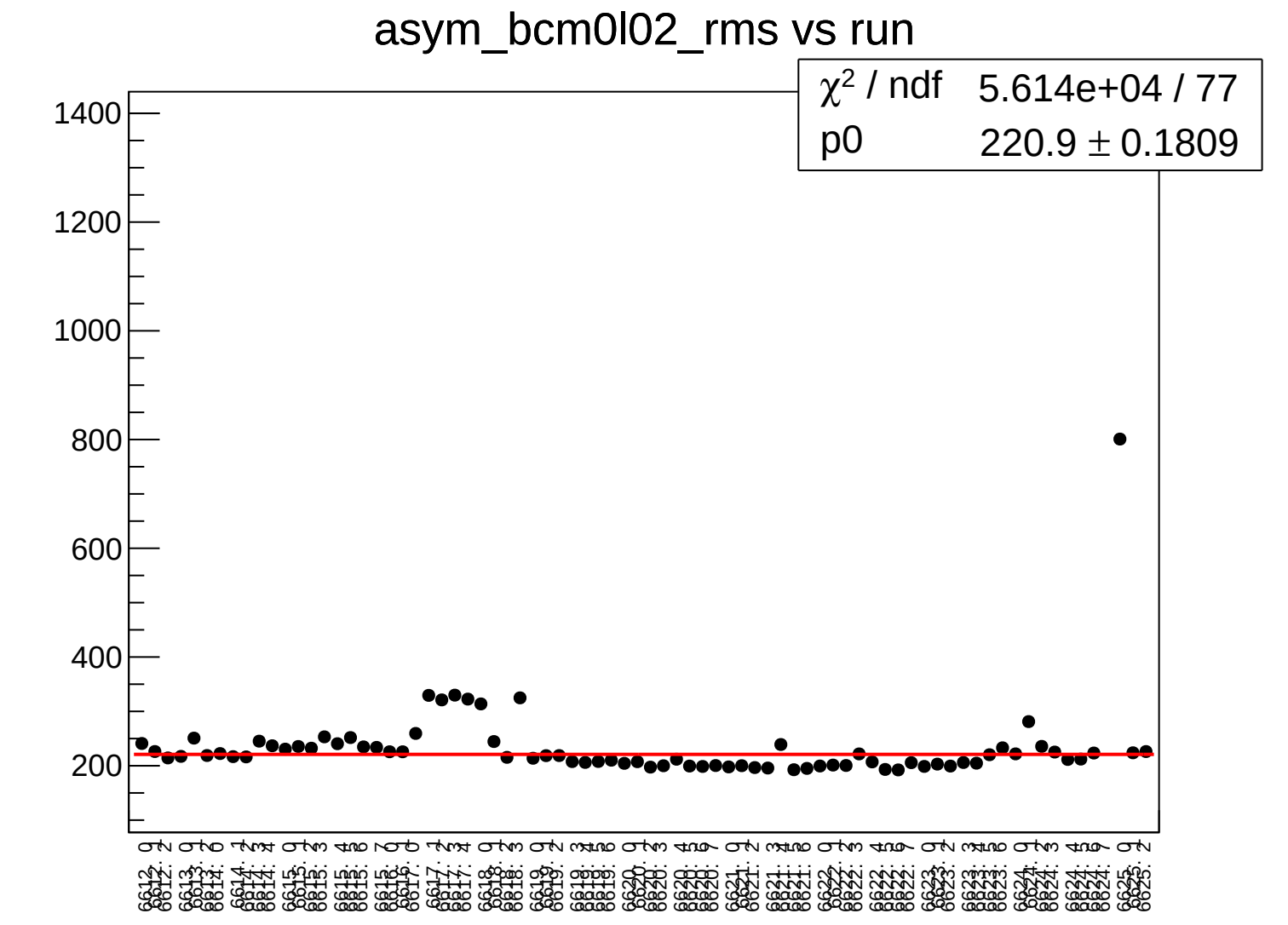

asym_cav4dQ_mean vs run
χ² / ndf 60.95 / 77
p0 −424.7 ± 481.8
pull
Entries 78
Mean 15.1
Std Dev 47.86

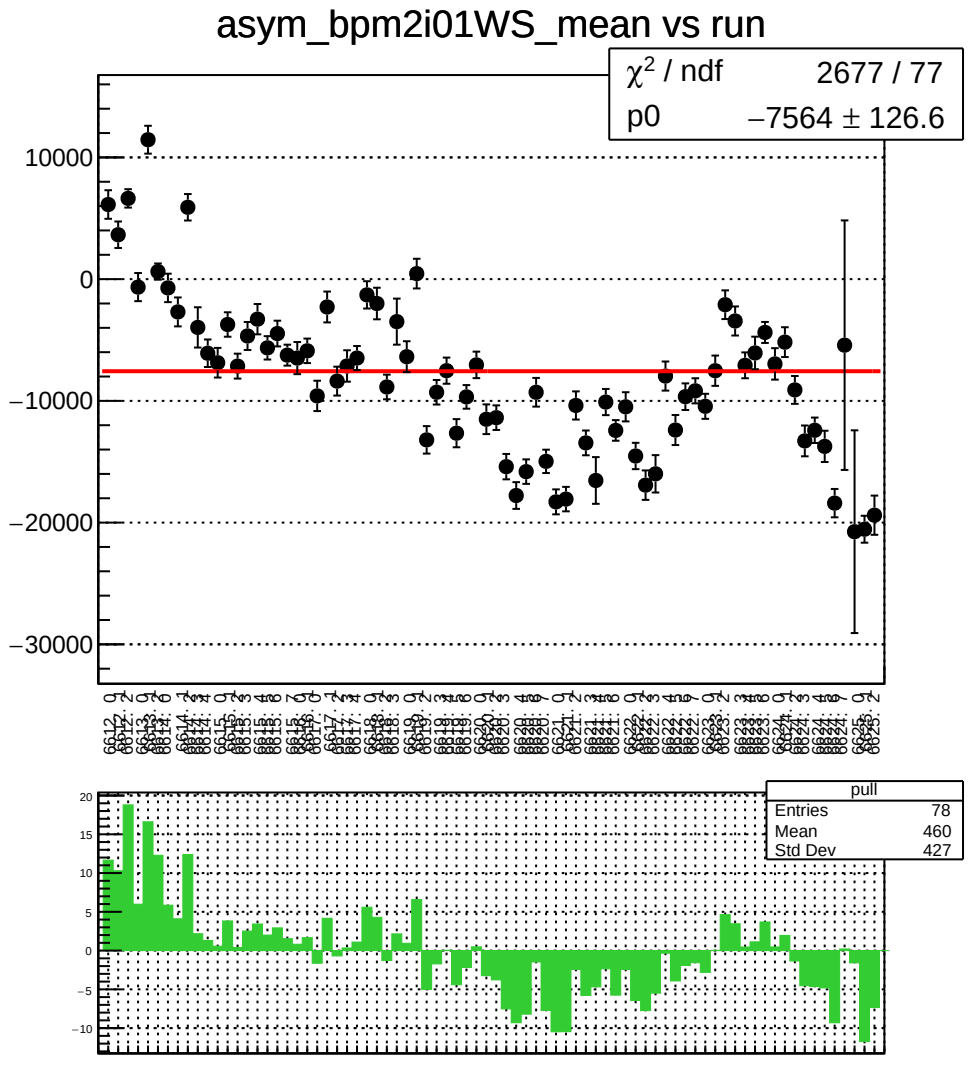

pull1D
Entries 78
Mean 0.01304
Std Dev 0.8838

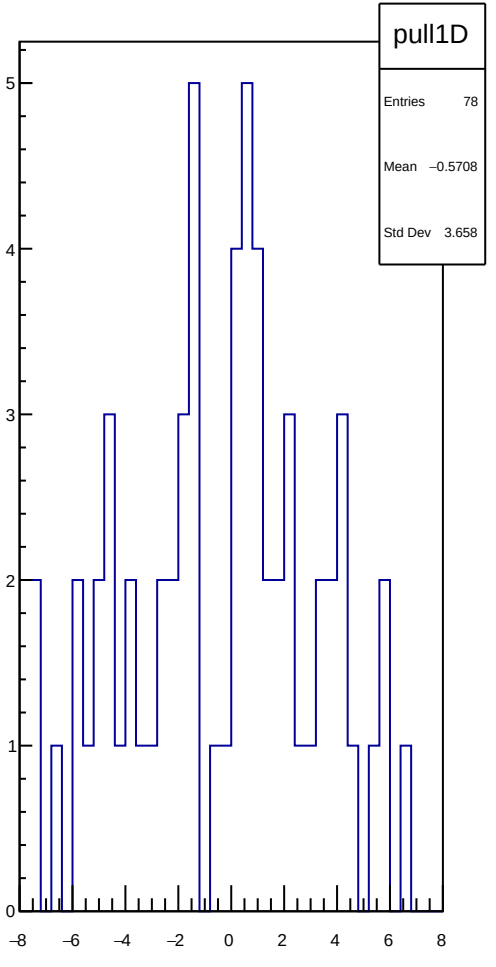

asym_cav4dQ_rms vs run
χ² / ndf 2.366e+04 / 77
p0 420.6 ± 0.3407
1400
1200
1000
800
600
400

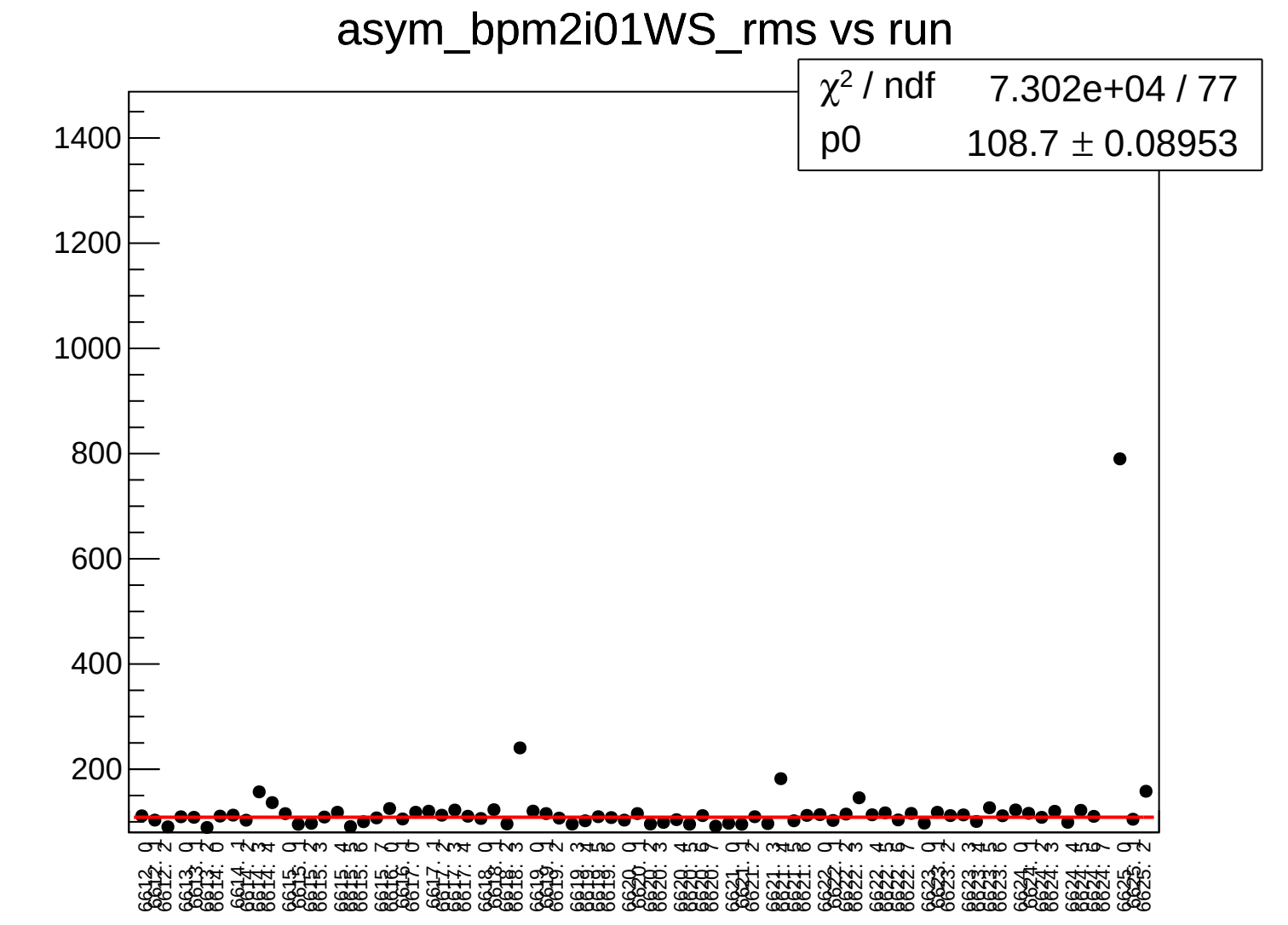

asym_bcm0l02_mean vs run
χ² / ndf 80.3 / 77
p0 2556 ± 255.8
pull
Entries 78
Mean 185.8
Std Dev 217.1

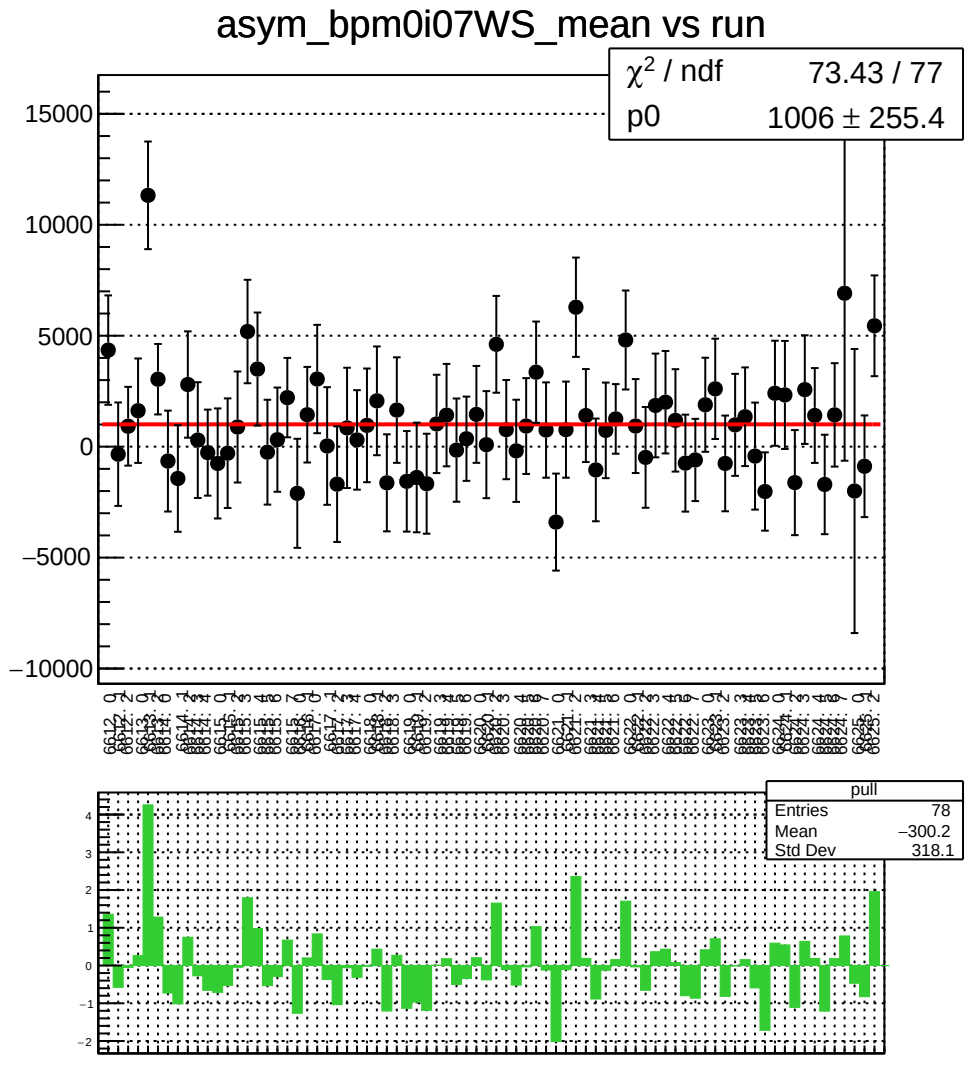

pull1D
Entries 78
Mean −0.004295
Std Dev 1.015

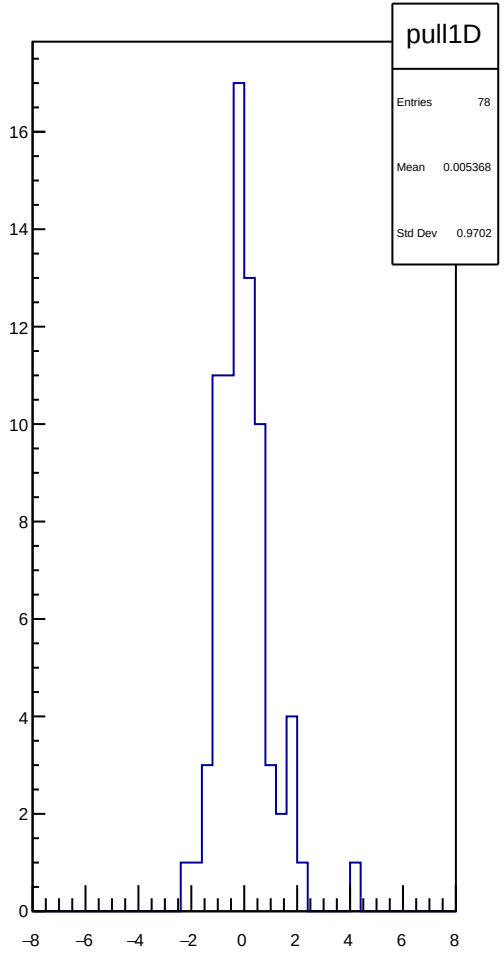

asym_bcm0l02_rms vs run
χ² / ndf 5.614e+04 / 77
p0 220.9 ± 0.1809
1400
1200
1000
800
600
400
200

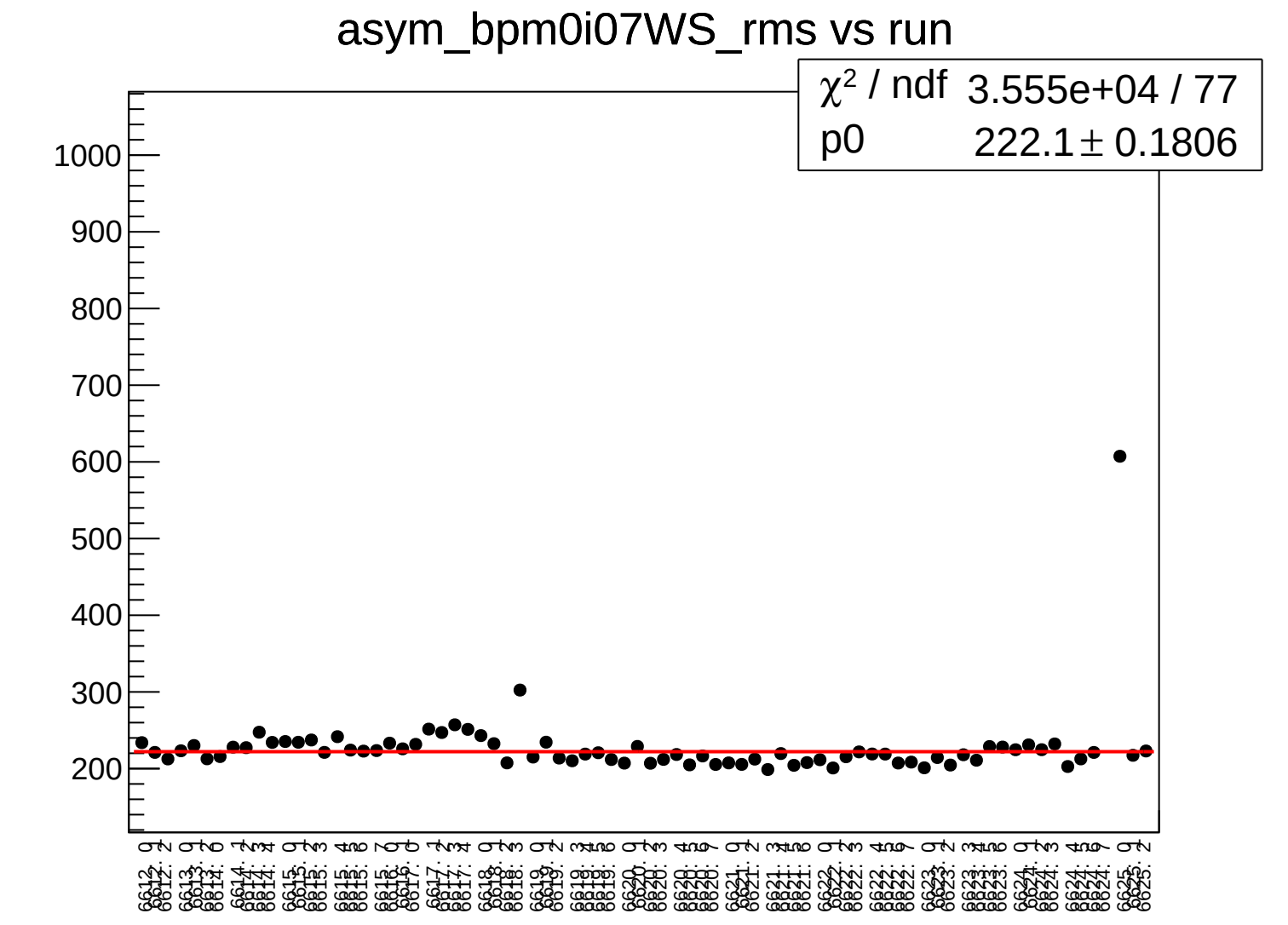

asym_bpm2i01WS_mean vs run
χ² / ndf 2677 / 77
p0 −7564 ± 126.6
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 460
Std Dev 427
20
15
10
5
0
−5
−10

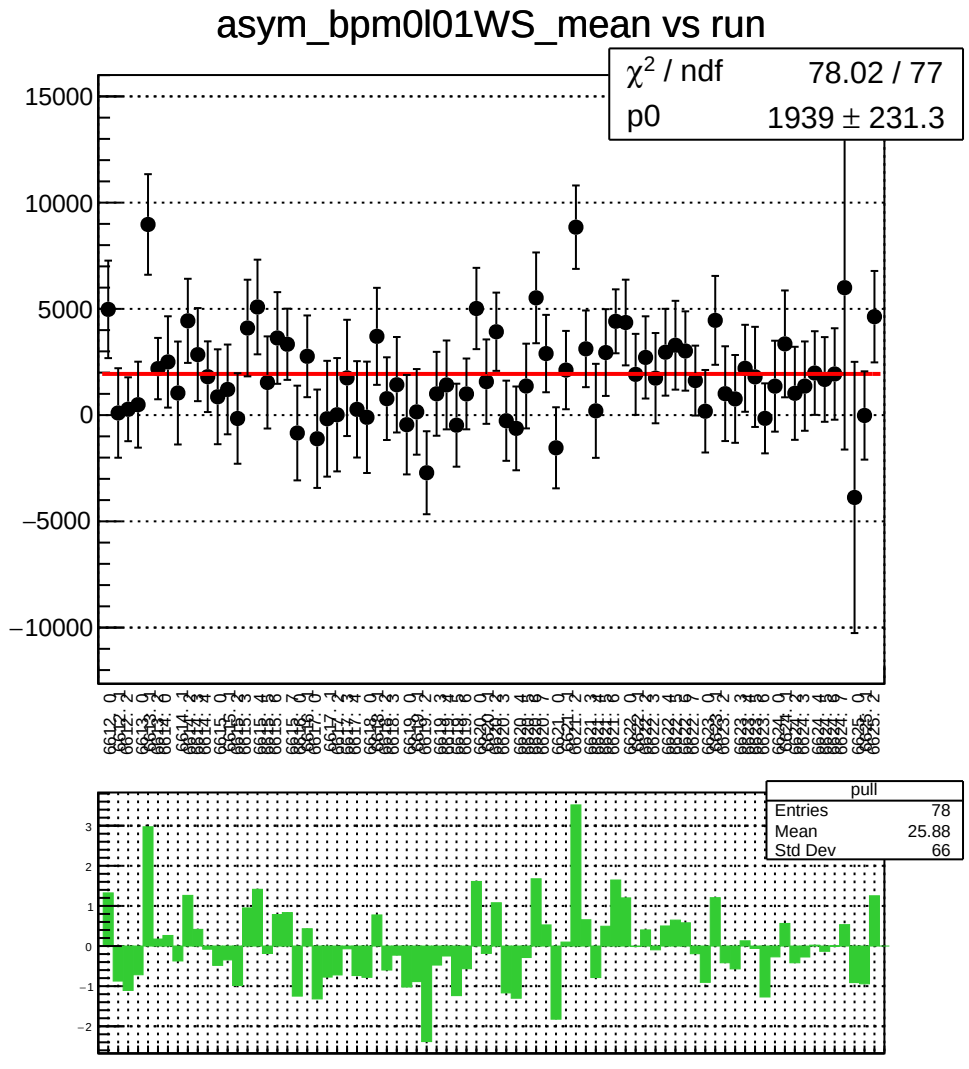

pull1D
Entries 78
Mean −0.5708
Std Dev 3.658
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

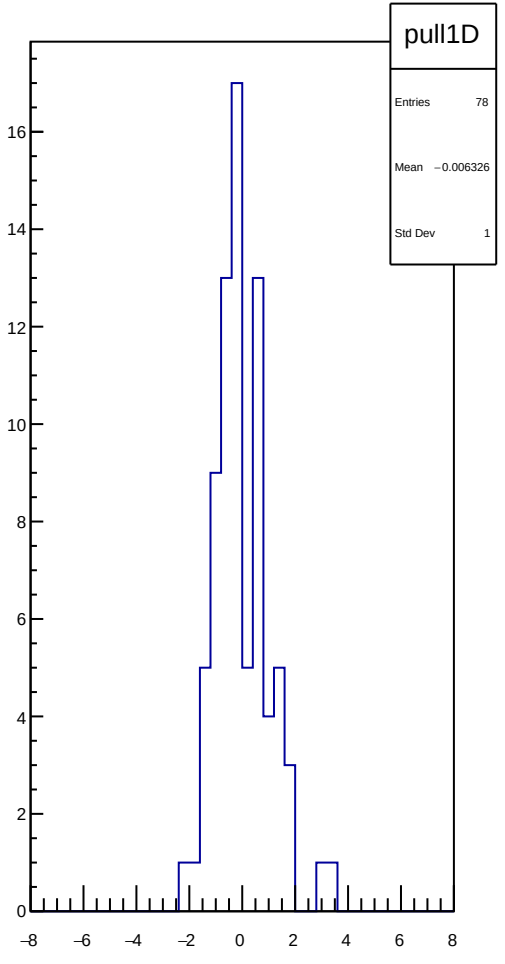

asym_bpm2i01WS_rms vs run
χ^2 / ndf 7.302e+04 / 77
p0 108.7 ± 0.08953
1400
1200
1000
800
600
400
200

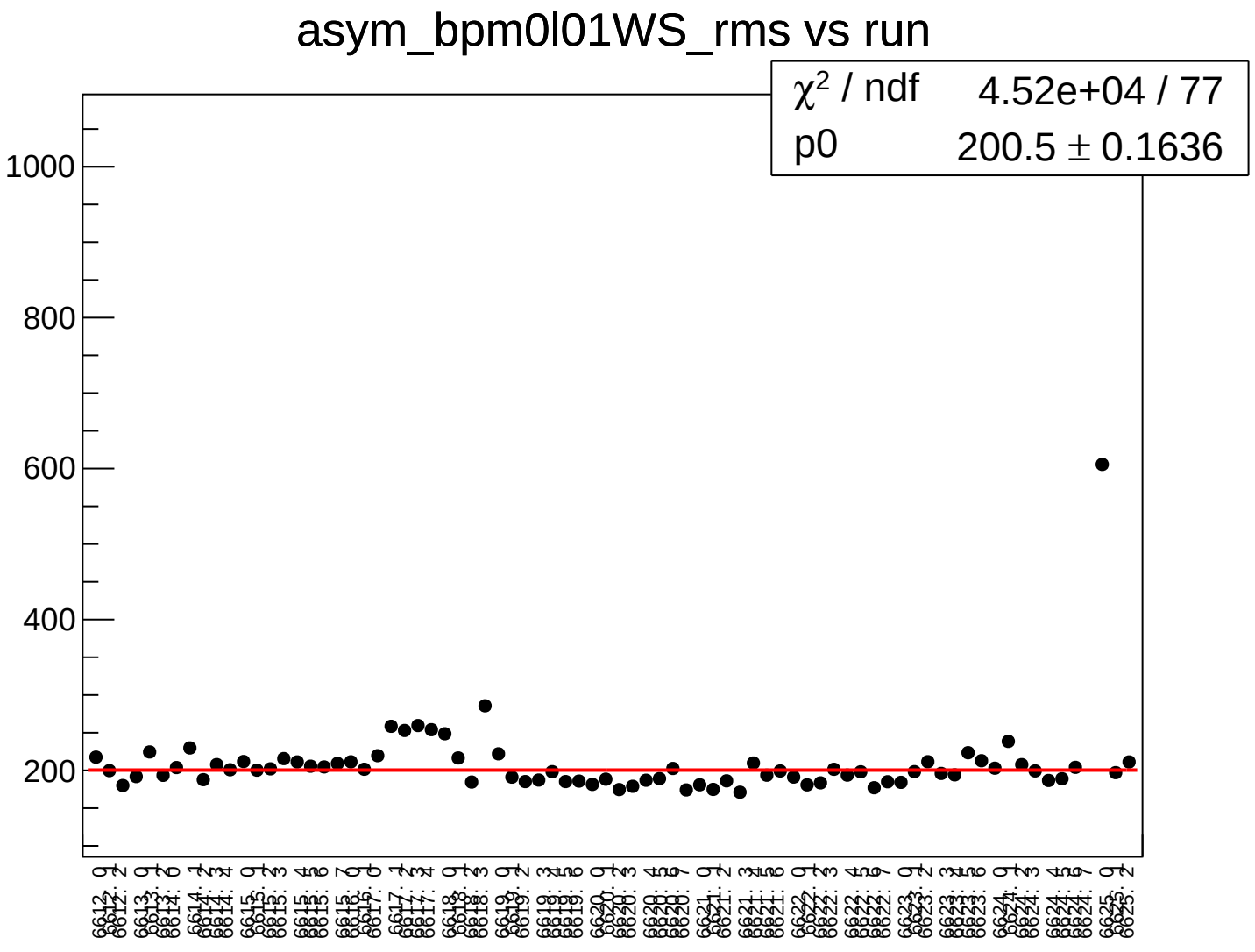

asym_bpm0i07WS_mean vs run
χ² / ndf 73.43 / 77
p0 1006 ± 255.4
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −300.2
Std Dev 318.1
4
3
2
1
0
−1
−2

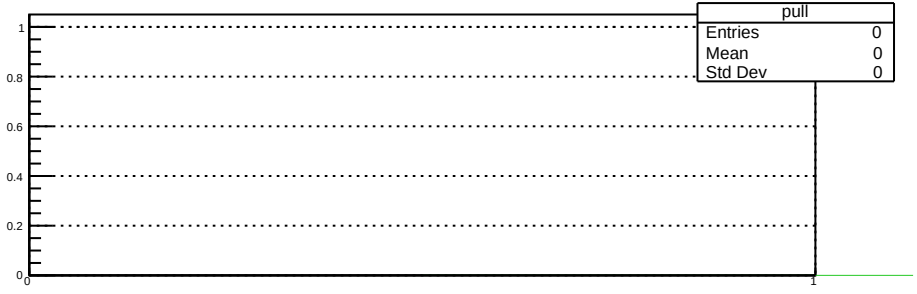

pull1D
Entries 78
Mean 0.005368
Std Dev 0.9702
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

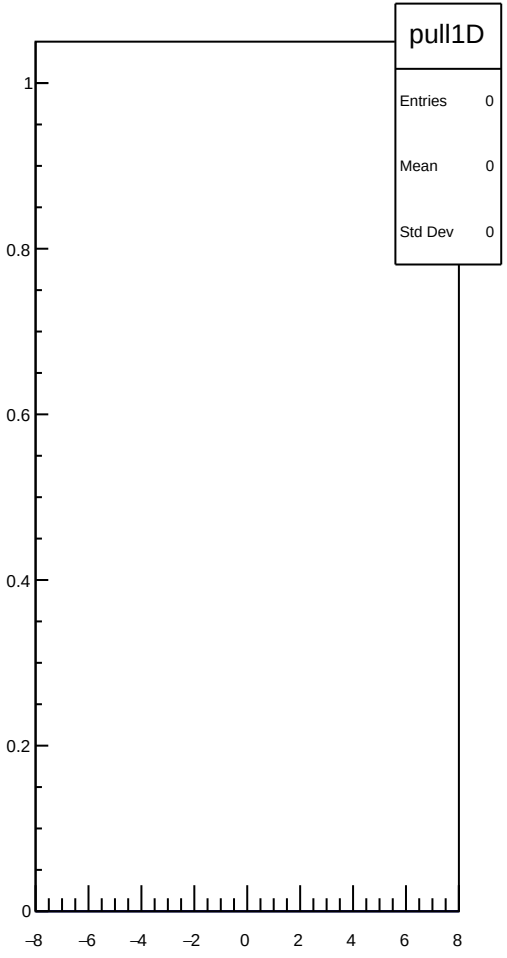

asym_bpm0i07WS_rms vs run
χ² / ndf 3.555e+04 / 77
p0 222.1 ± 0.1806
1000
900
800
700
600
500
400
300
200

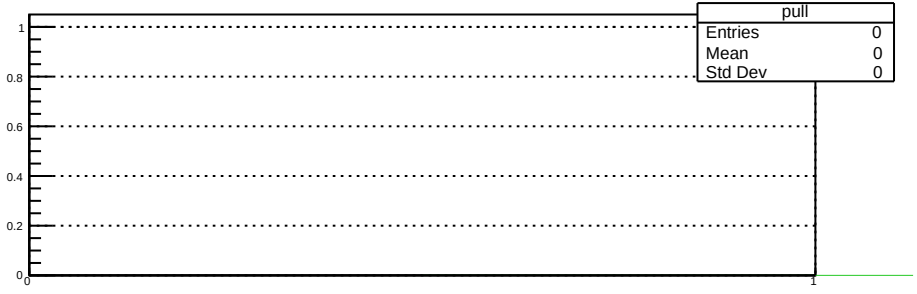

asym_bpm0l01WS_mean vs run
χ² / ndf 78.02 / 77
p0 1939 ± 231.3
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 25.88
Std Dev 66
3
2
1
0
−1
−2

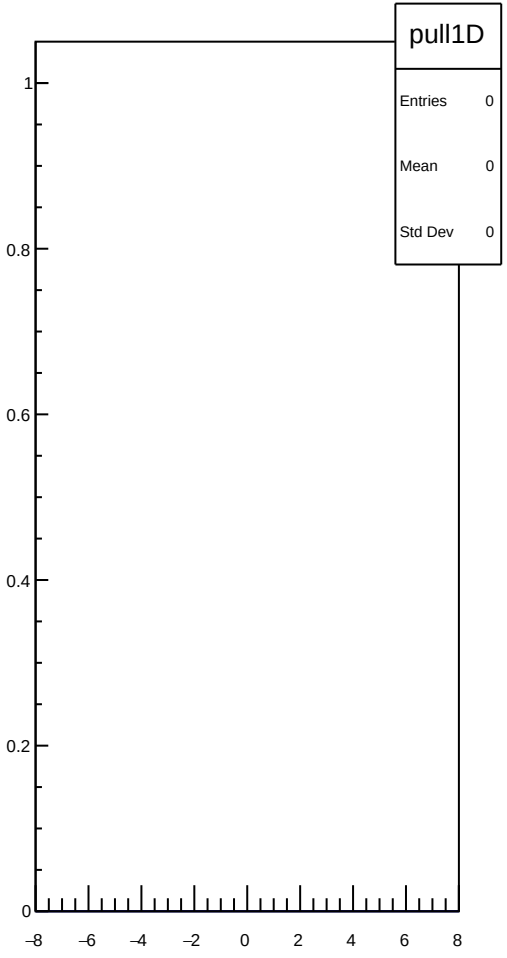

pull1D
Entries 78
Mean −0.006326
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

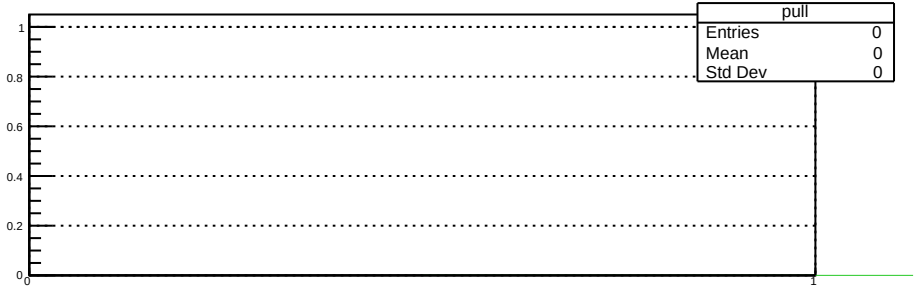

asym_bpm0l01WS_rms vs run
χ² / ndf 4.52e+04 / 77
p0 200.5 ± 0.1636
1000
800
600
400
200

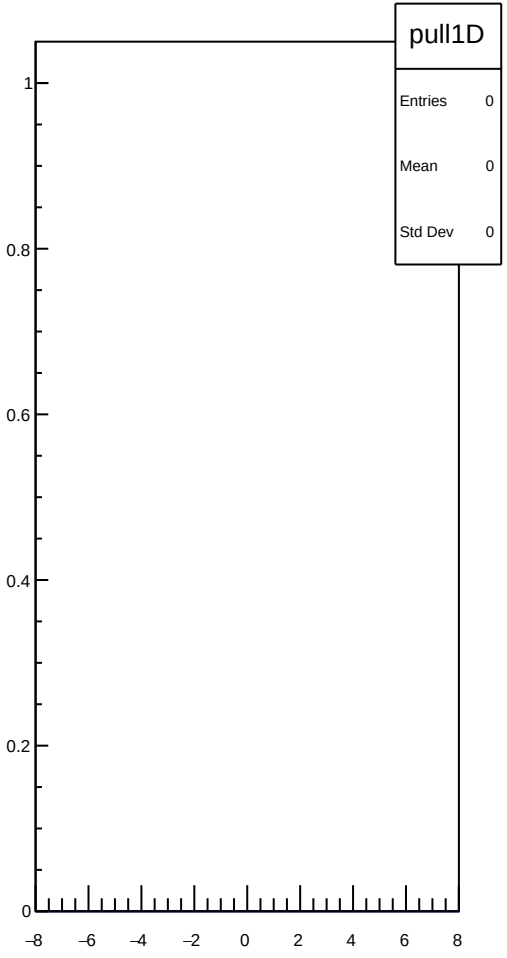

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

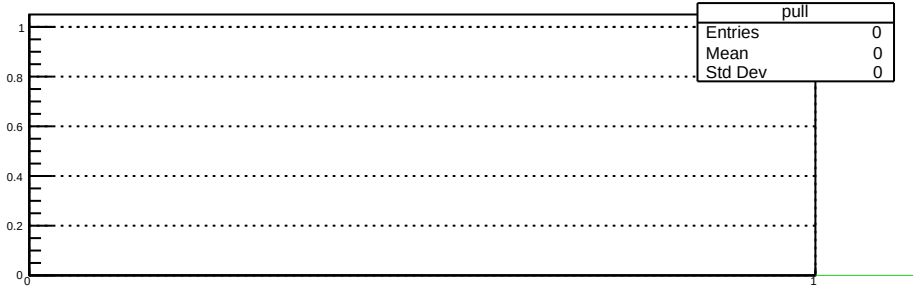

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

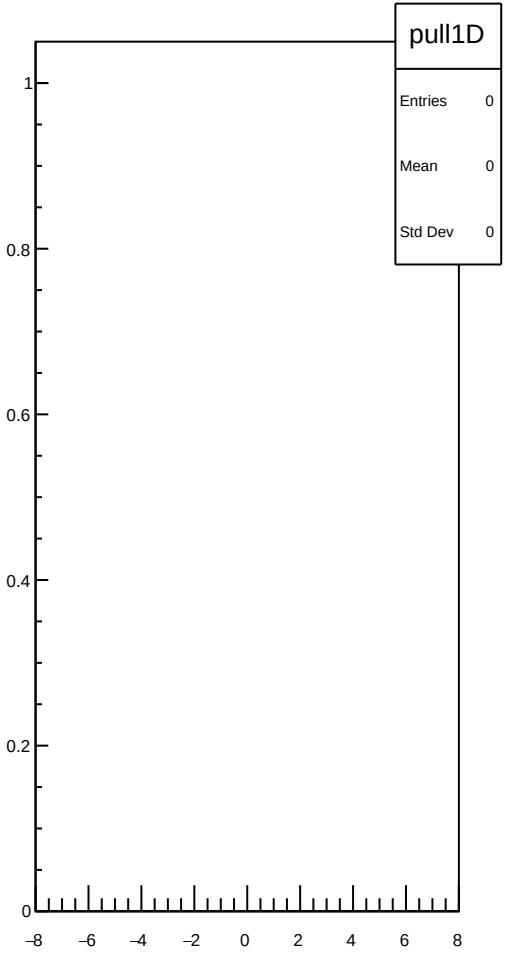

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

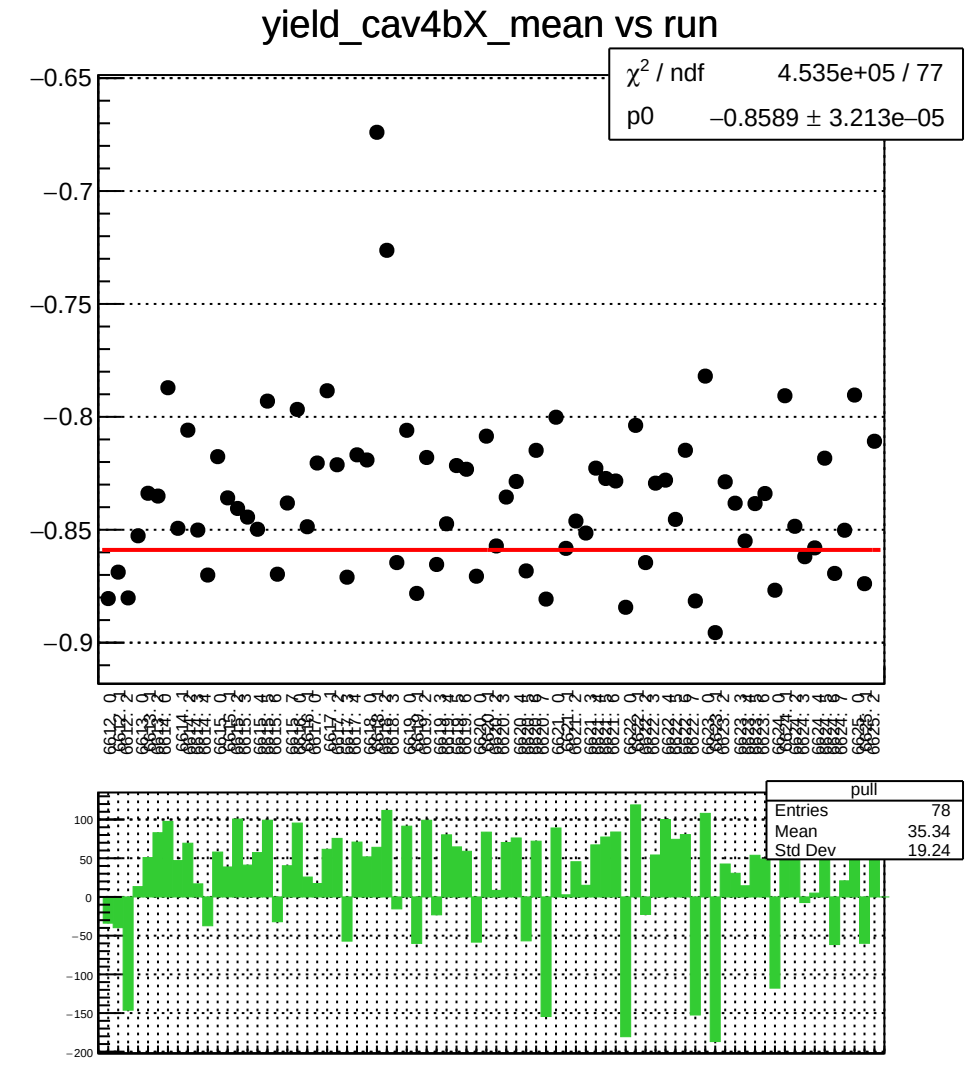

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

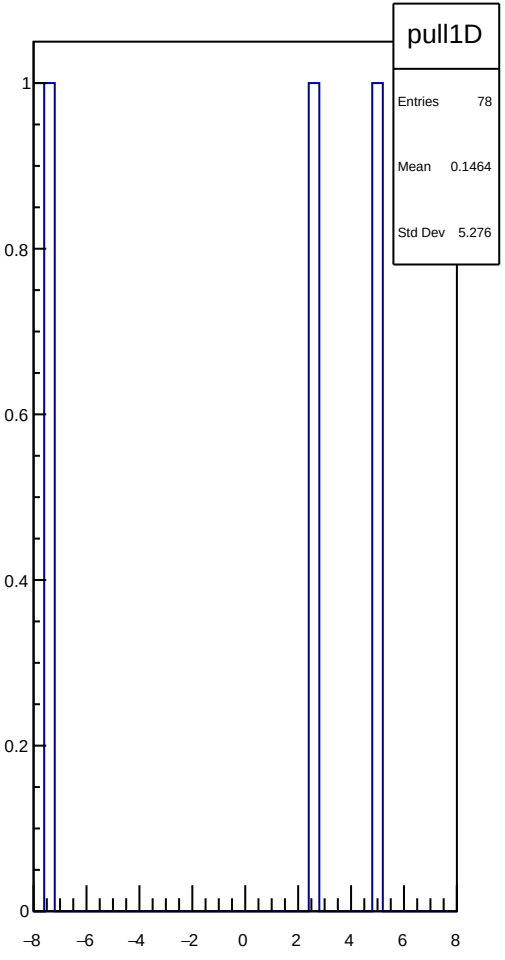

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

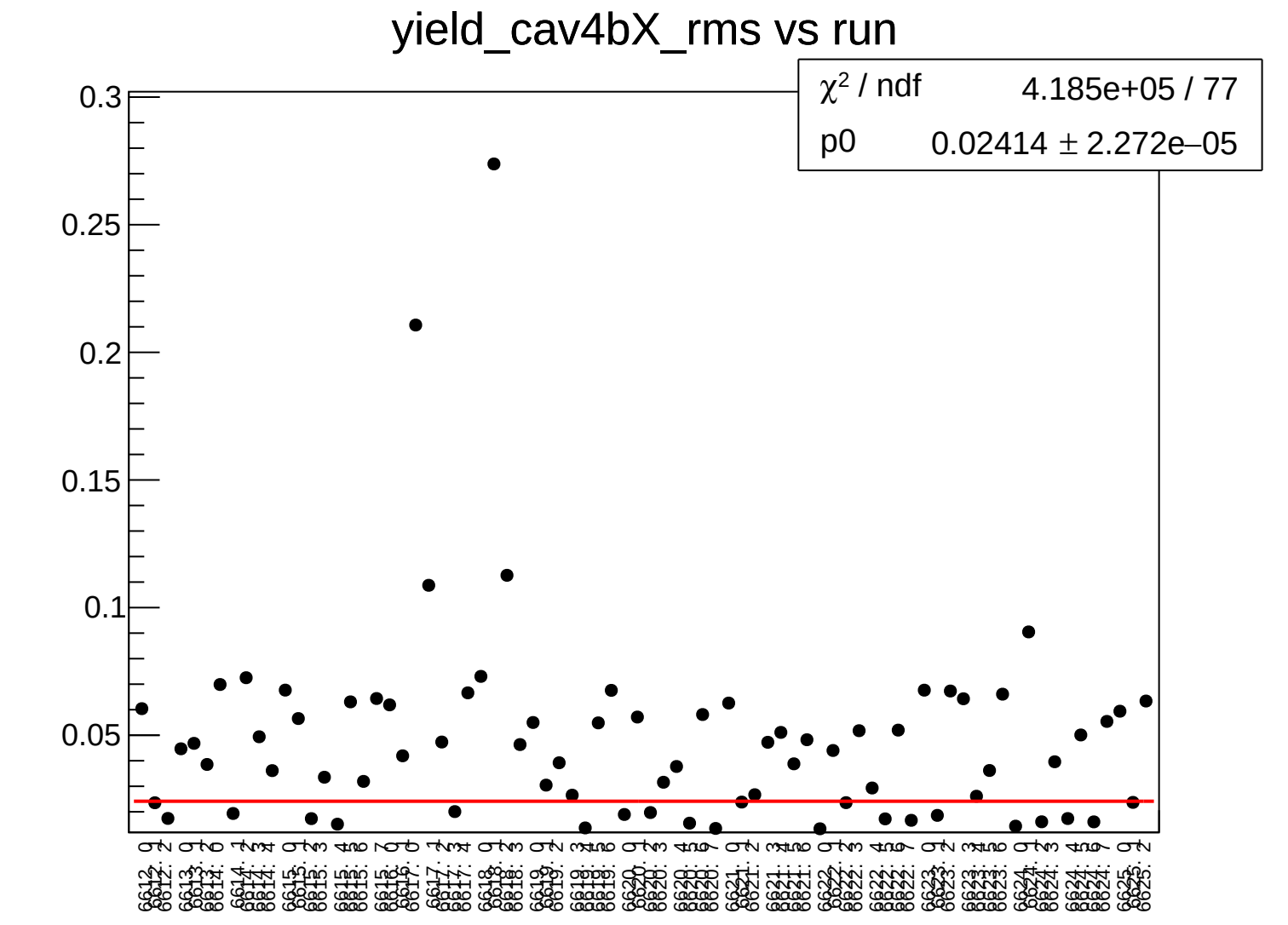

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

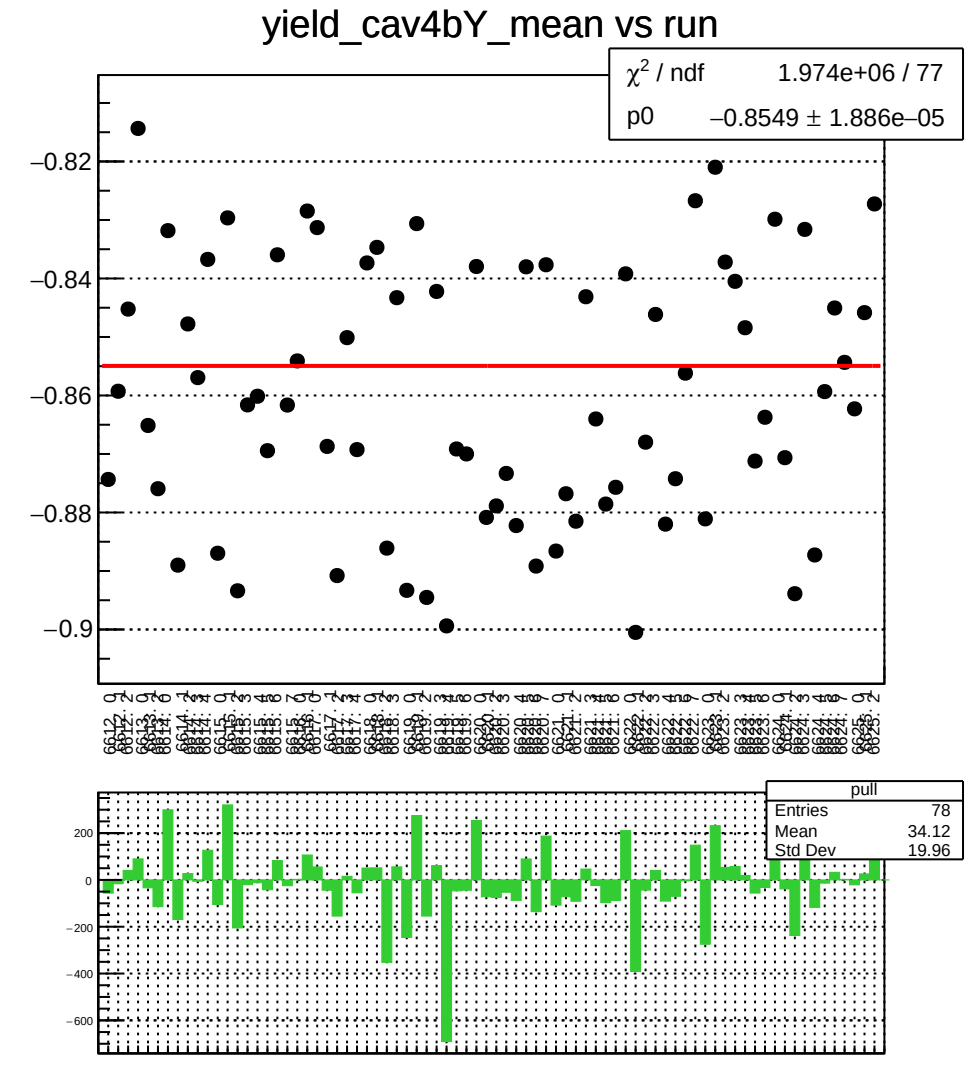

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

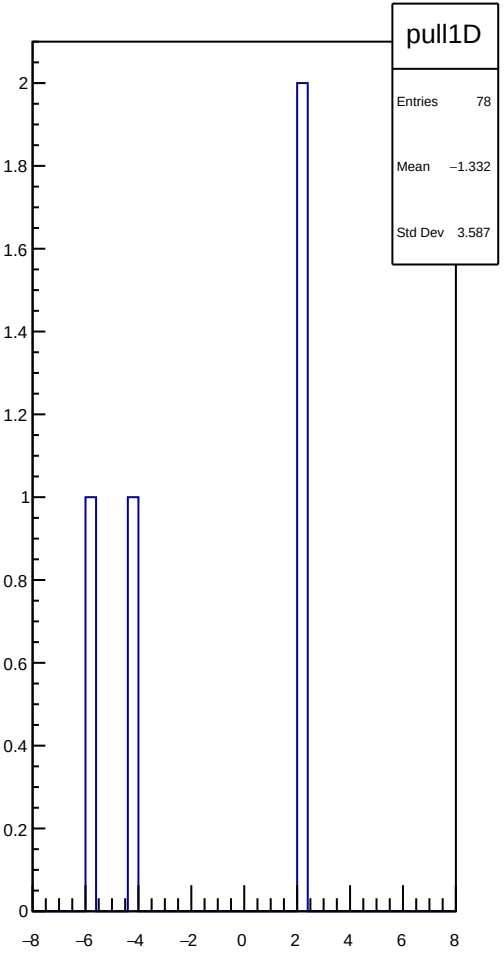

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

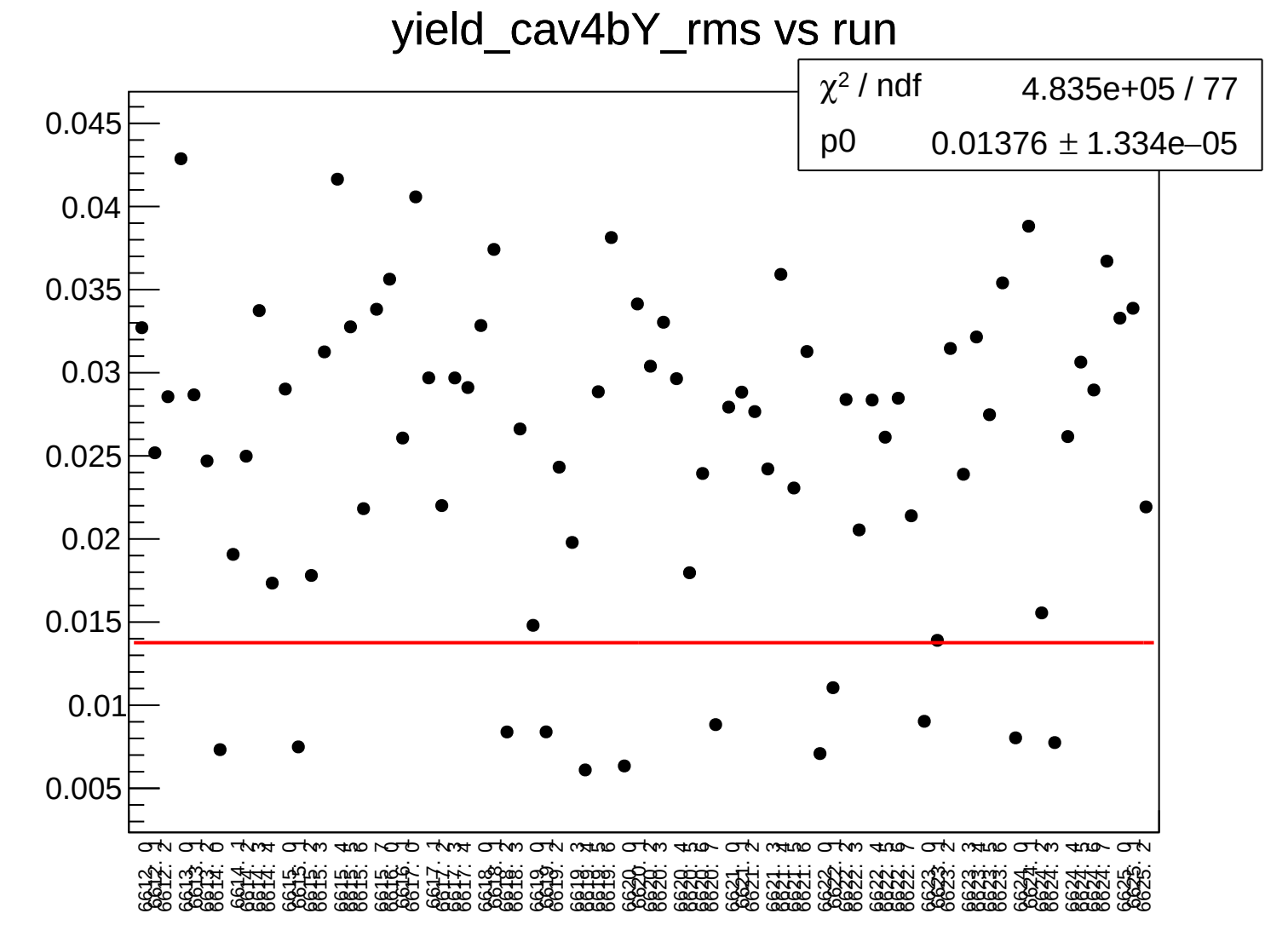

yield_cav4bX_mean vs run
χ² / ndf 4.535e+05 / 77
p0 −0.8589 ± 3.213e−05
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 78
Mean 35.34
Std Dev 19.24
100
50
0
−50
−100
−150
−200

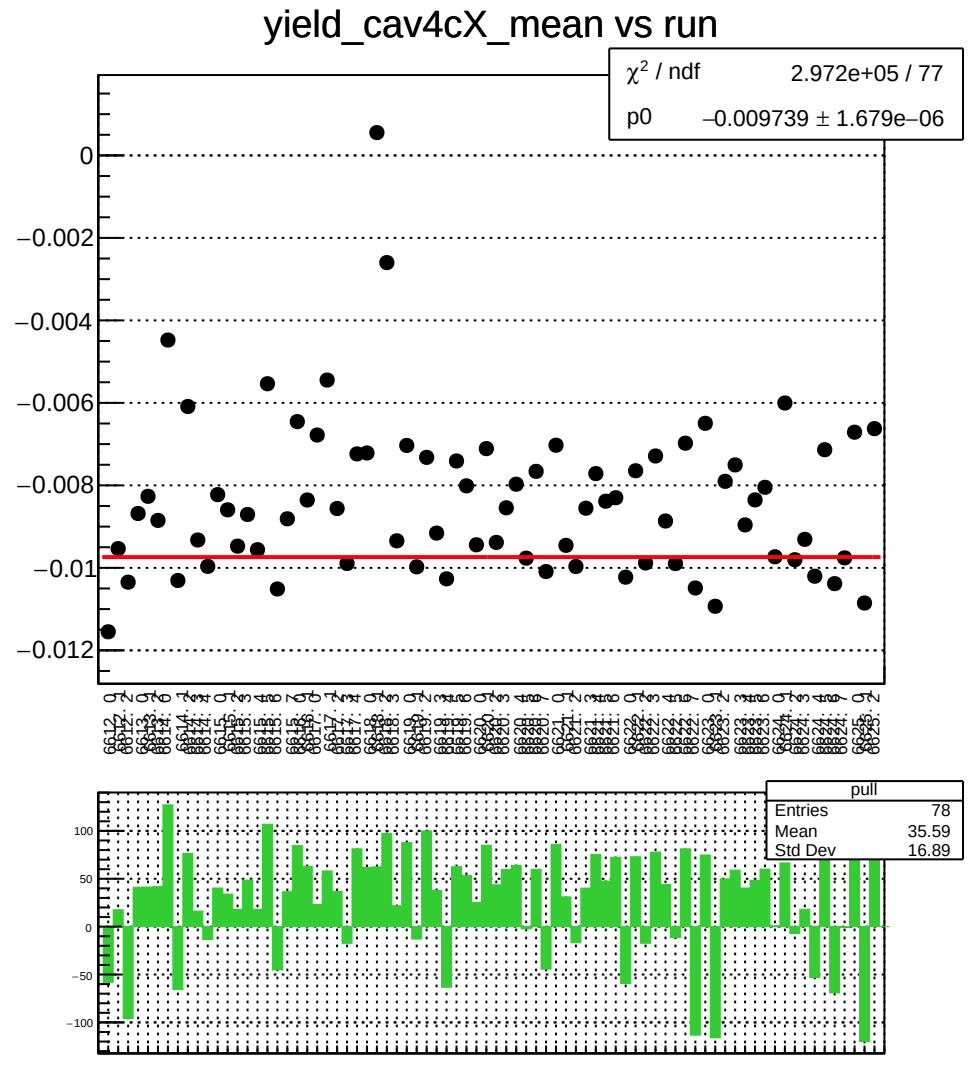

pull1D
Entries 78
Mean 0.1464
Std Dev 5.276
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

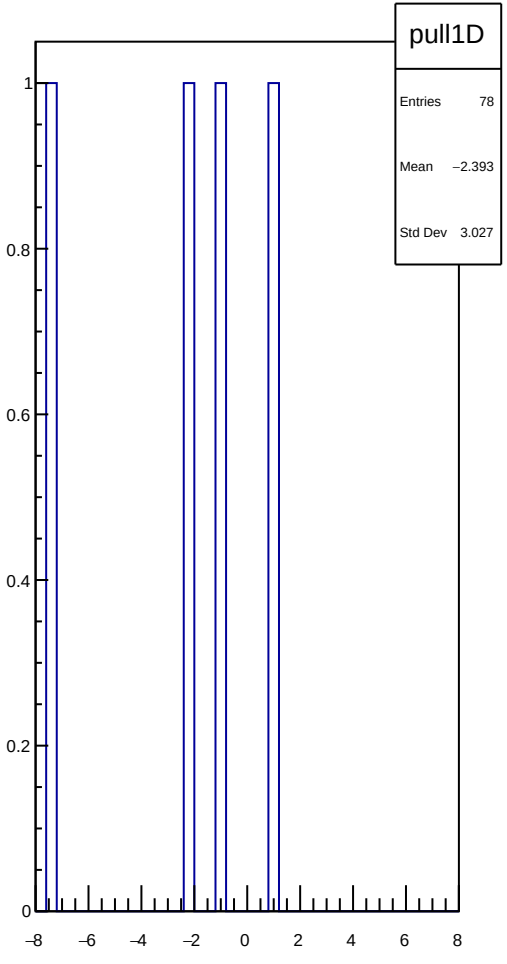

yield_cav4bX_rms vs run
χ² / ndf 4.185e+05 / 77
p0 0.02414 ± 2.272e−05
0.3
0.25
0.2
0.15
0.1
0.05

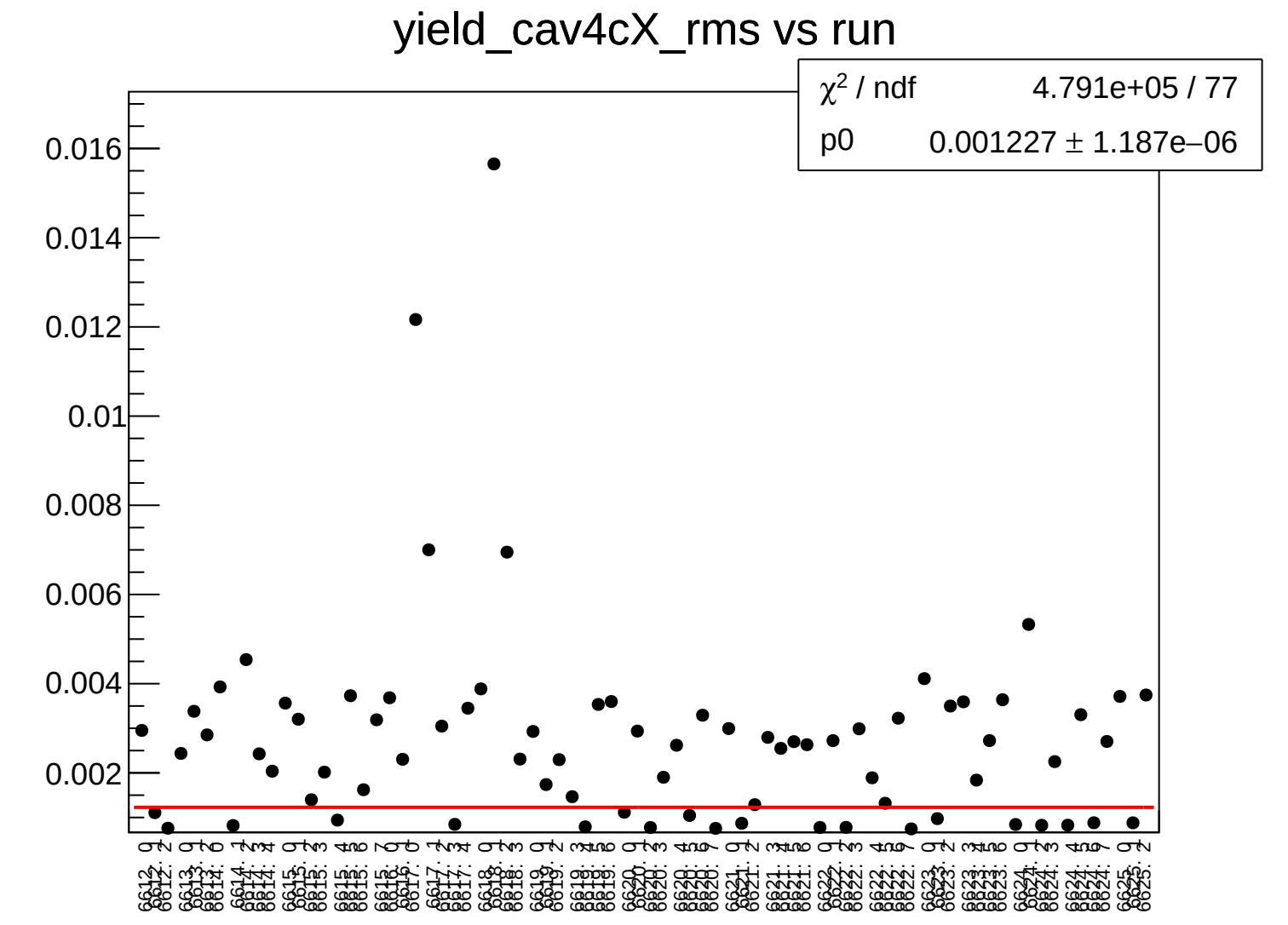

yield_cav4bY_mean vs run
χ² / ndf 1.974e+06 / 77
p0 −0.8549 ± 1.886e−05
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 78
Mean 34.12
Std Dev 19.96
200
0
−200
−400
−600

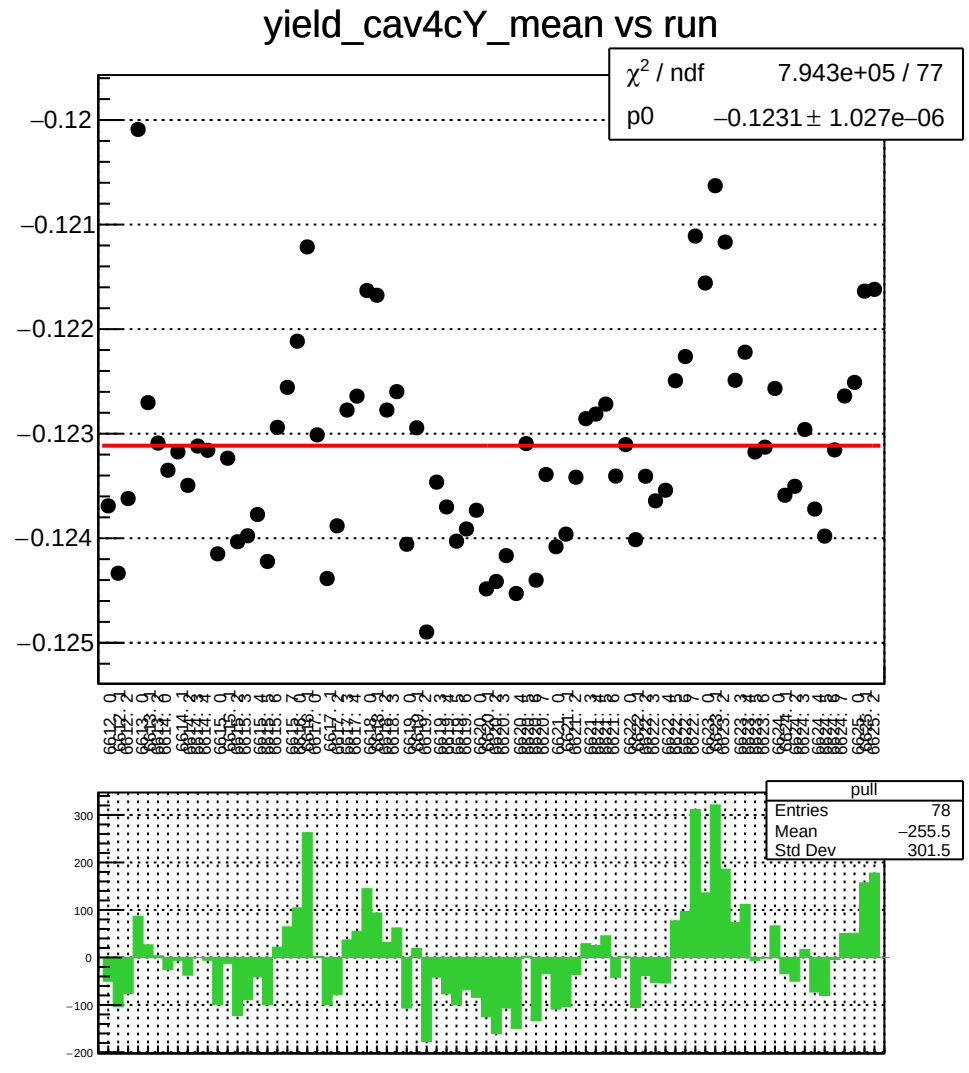

pull1D
Entries 78
Mean −1.332
Std Dev 3.587
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

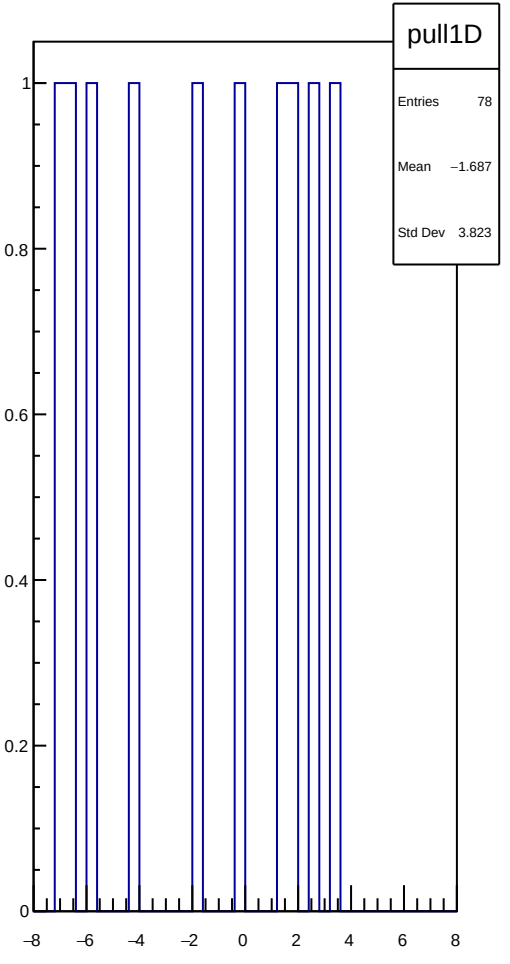

yield_cav4bY_rms vs run
χ² / ndf 4.835e+05 / 77
p0 0.01376 ± 1.334e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

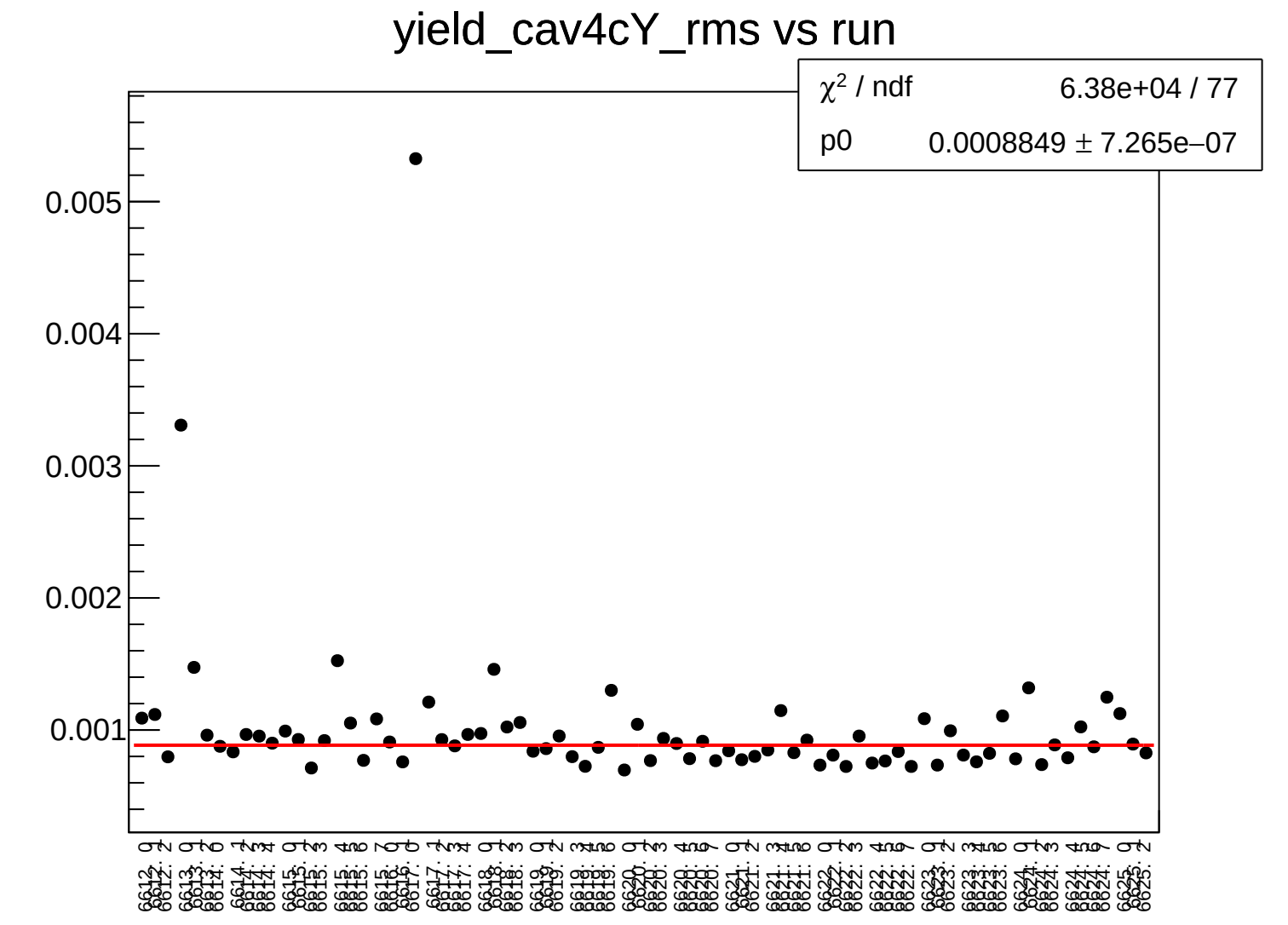

yield_cav4cX_mean vs run
χ² / ndf 2.972e+05 / 77
p0 −0.009739 ± 1.679e−06
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
pull
Entries 78
Mean 35.59
Std Dev 16.89
100
50
0
−50
−100

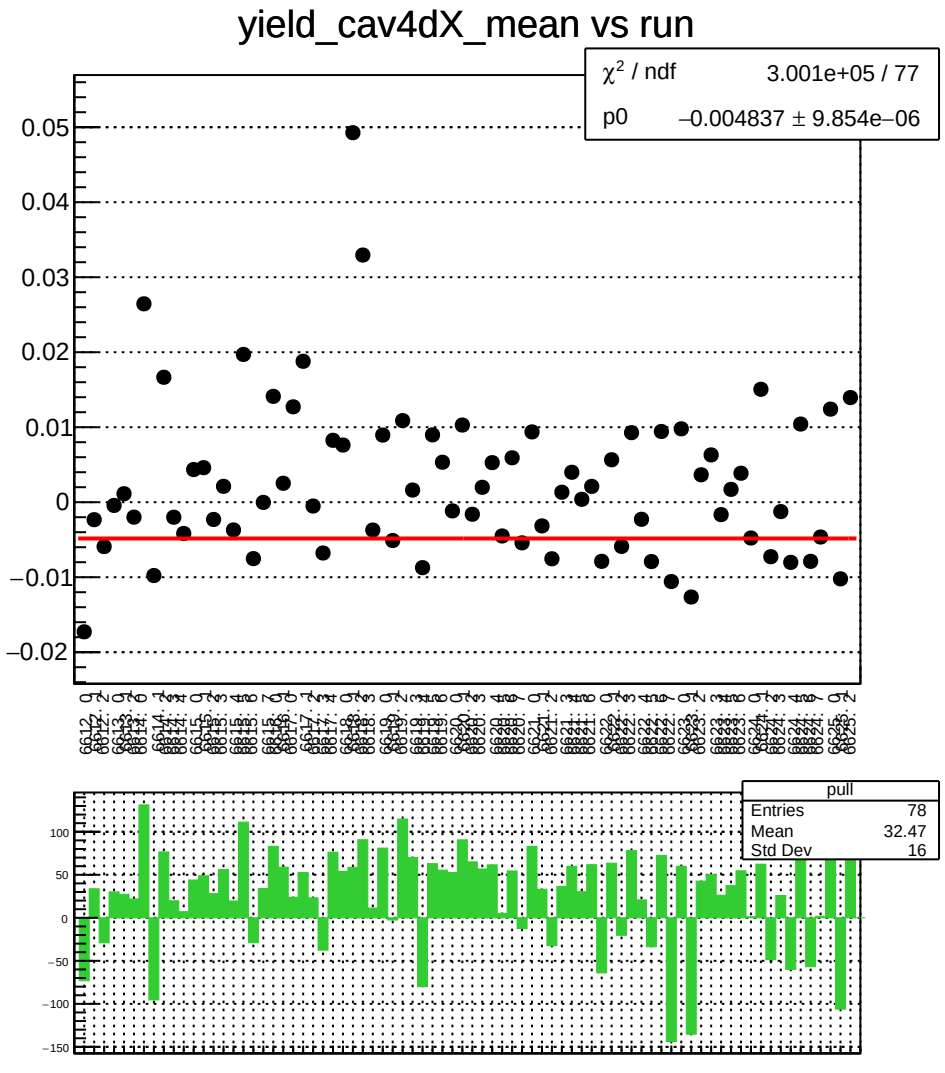

pull1D
Entries 78
Mean −2.393
Std Dev 3.027
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

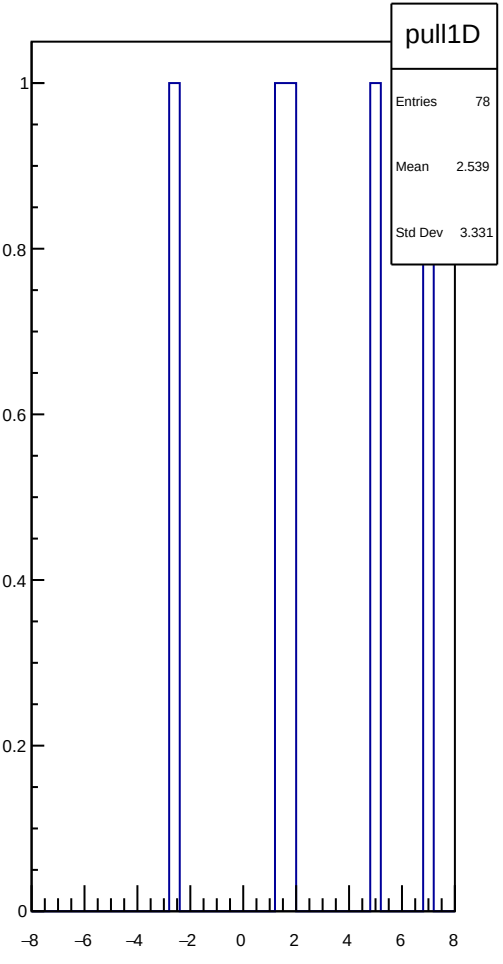

yield_cav4cX_rms vs run
χ² / ndf 4.791e+05 / 77
p0 0.001227 ± 1.187e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

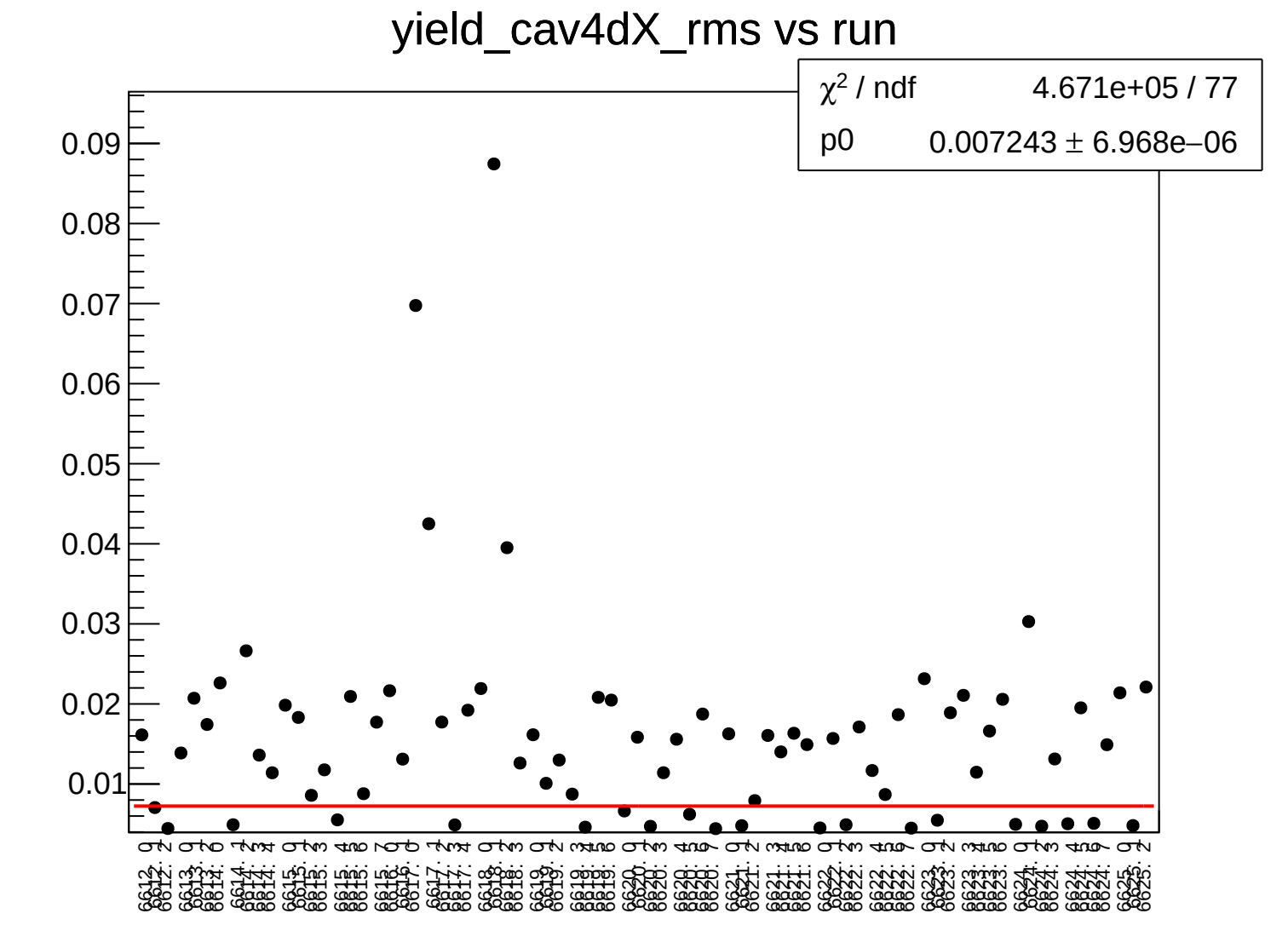

yield_cav4cY_mean vs run
χ² / ndf 7.943e+05 / 77
p0 −0.1231 ± 1.027e−06
−0.12
−0.121
−0.122
−0.123
−0.124
−0.125
pull
Entries 78
Mean −255.5
Std Dev 301.5
300
200
100
0
−100
−200

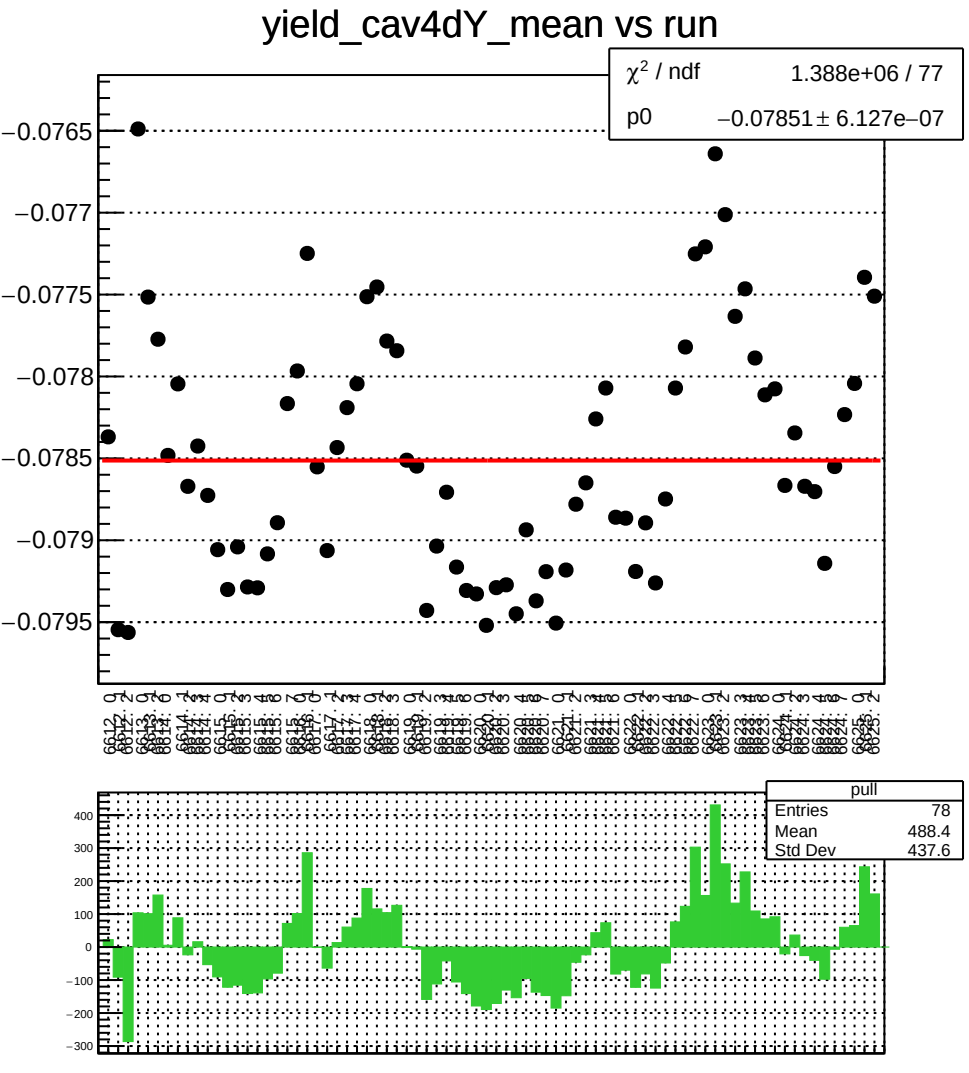

pull1D
Entries 78
Mean −1.687
Std Dev 3.823
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

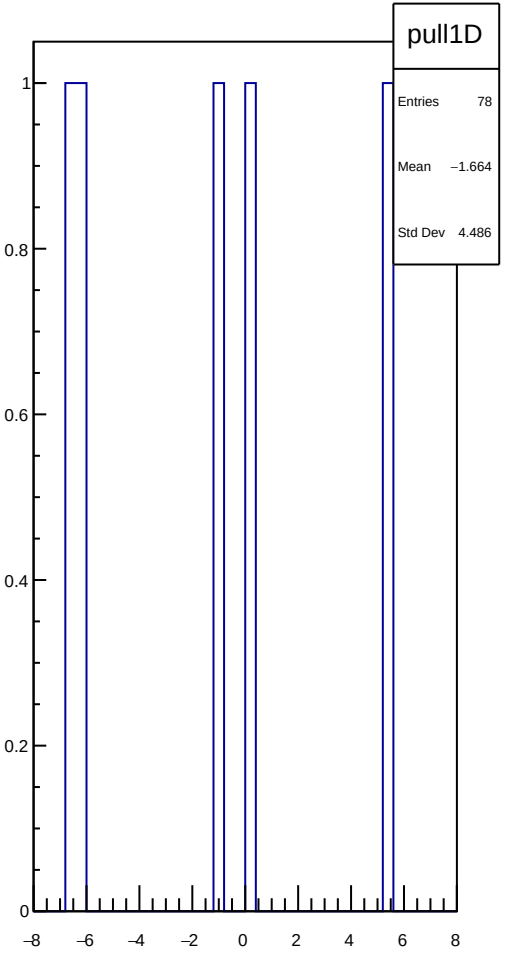

yield_cav4cY_rms vs run
χ² / ndf 6.38e+04 / 77
p0 0.0008849 ± 7.265e−07
0.005
0.004
0.003
0.002
0.001

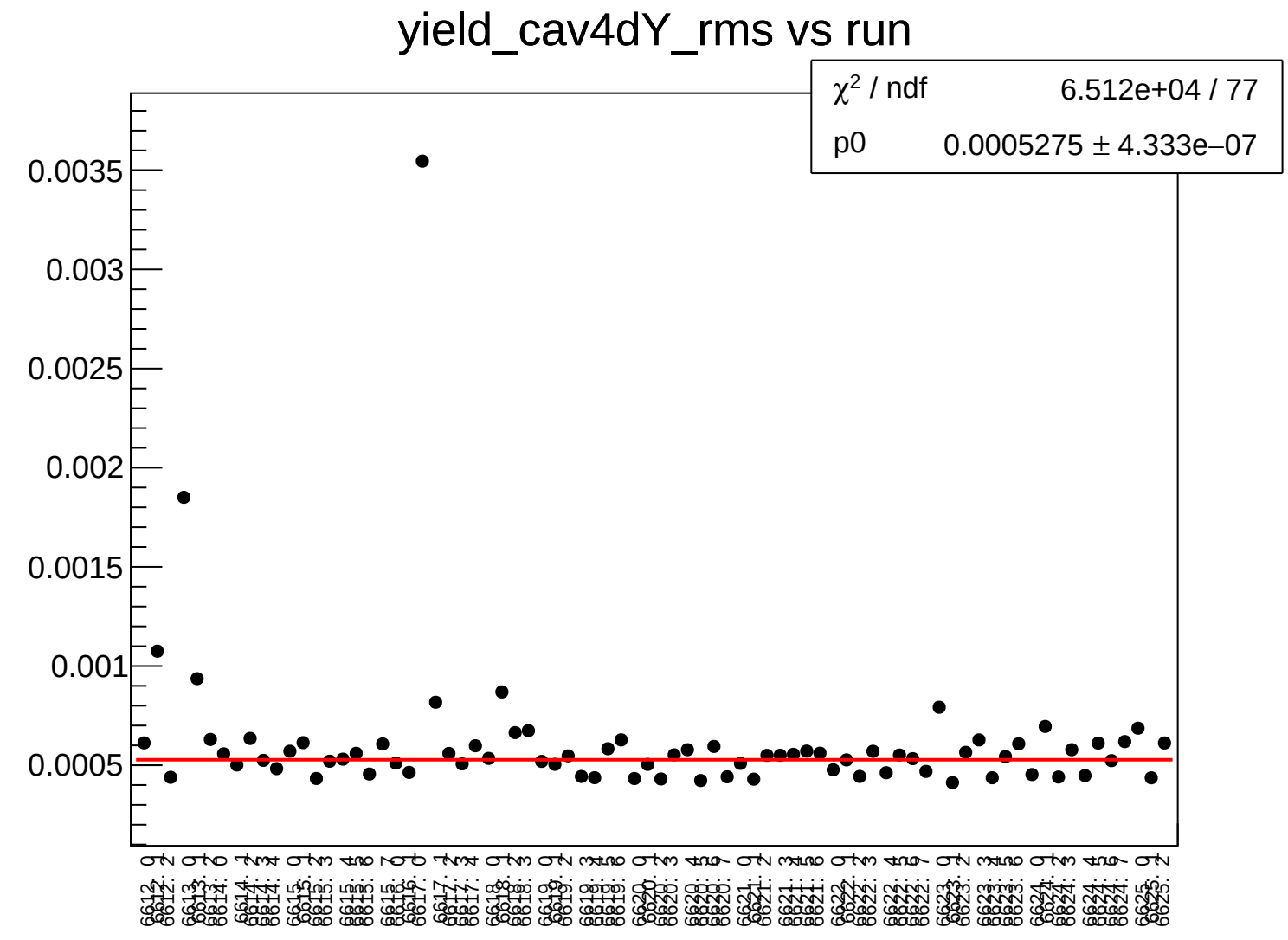

yield_cav4dX_mean vs run
χ² / ndf 3.001e+05 / 77
p0 −0.004837 ± 9.854e−06
pull
Entries 78
Mean 32.47
Std Dev 16

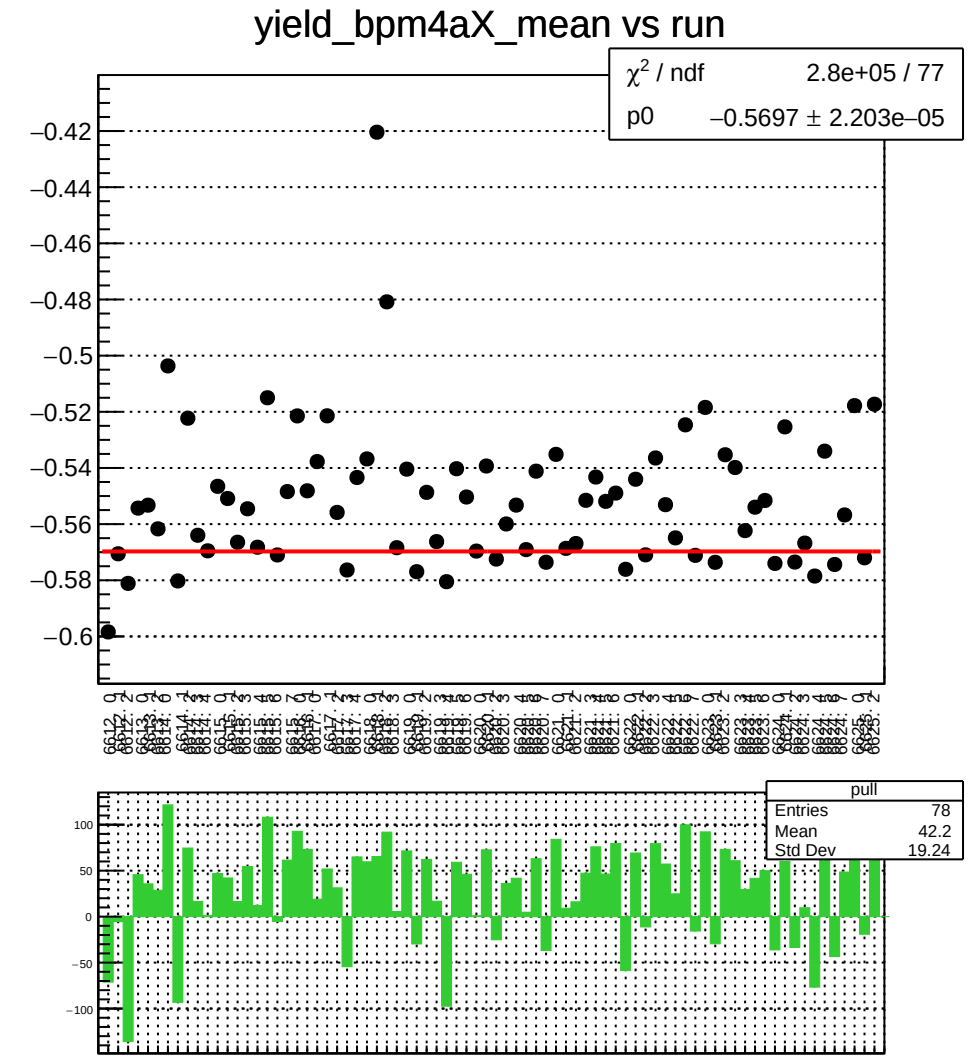

pull1D
Entries 78
Mean 2.539
Std Dev 3.331

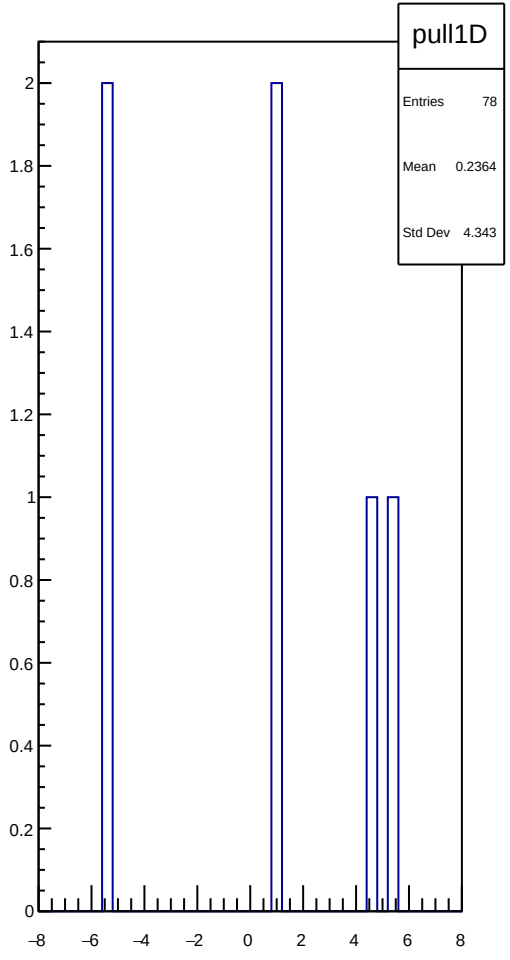

yield_cav4dX_rms vs run
χ^2 / ndf 4.671e+05 / 77
p0 0.007243 ± 6.968e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

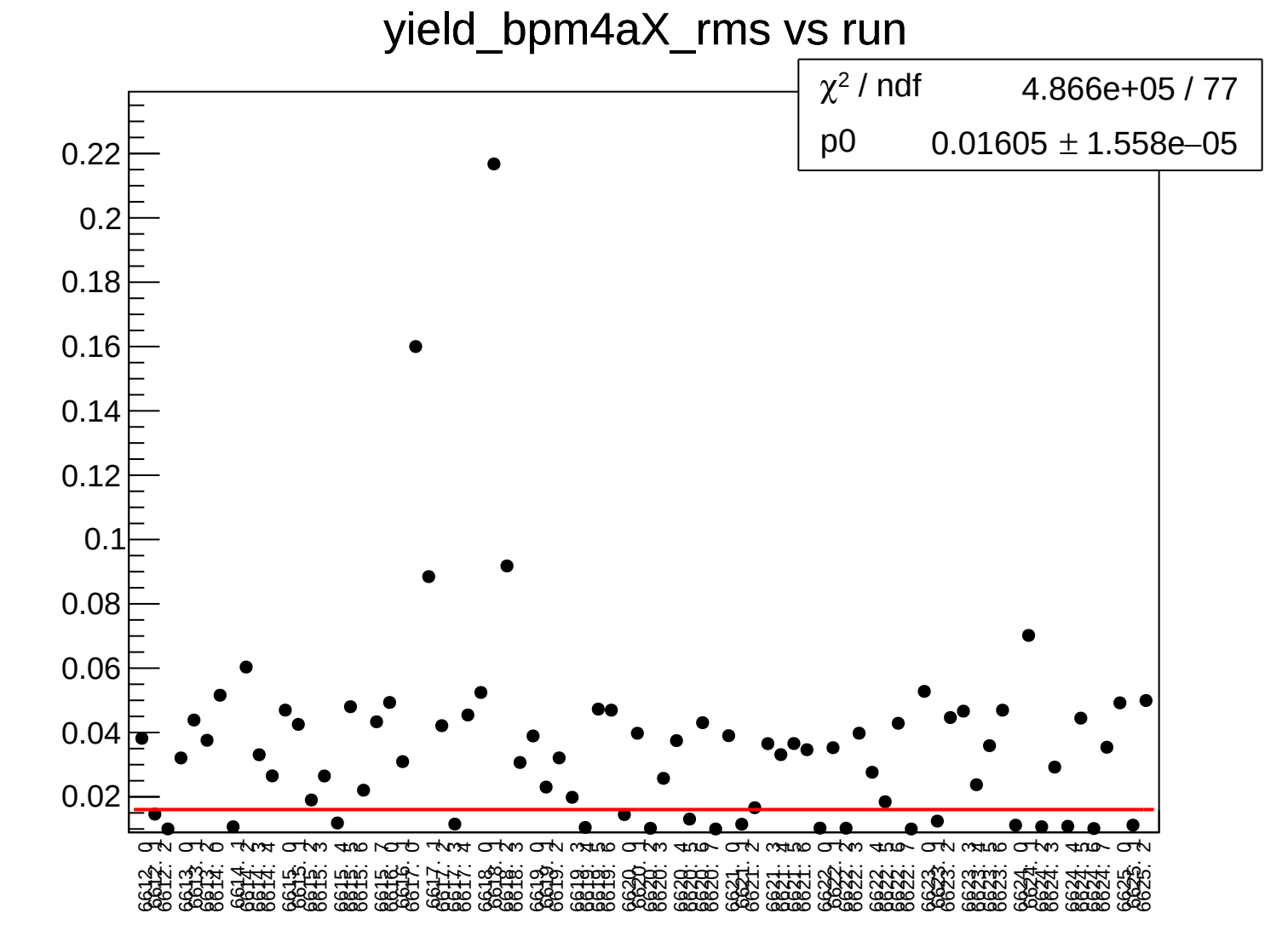

yield_cav4dY_mean vs run
χ² / ndf 1.388e+06 / 77
p0 −0.07851 ± 6.127e−07
−0.0765
−0.077
−0.0775
−0.078
−0.0785
−0.079
−0.0795
pull
Entries 78
Mean 488.4
Std Dev 437.6
400
300
200
100
0
−100
−200
−300

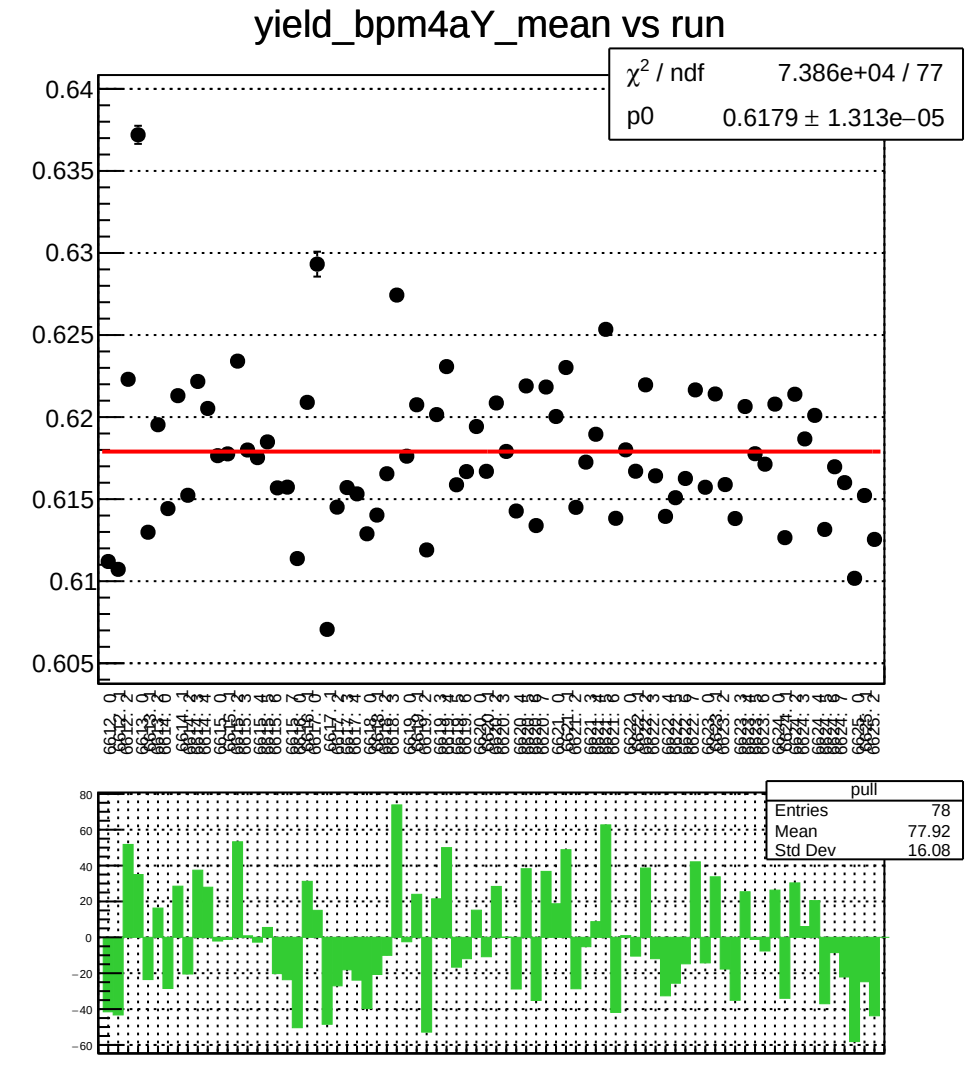

pull1D
Entries 78
Mean −1.664
Std Dev 4.486
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

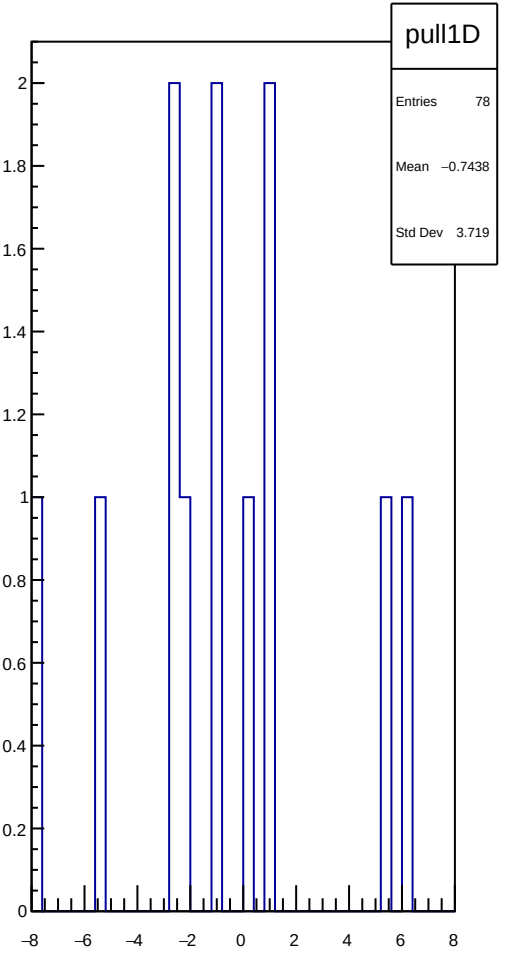

yield_cav4dY_rms vs run
χ² / ndf 6.512e+04 / 77
p0 0.0005275 ± 4.333e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

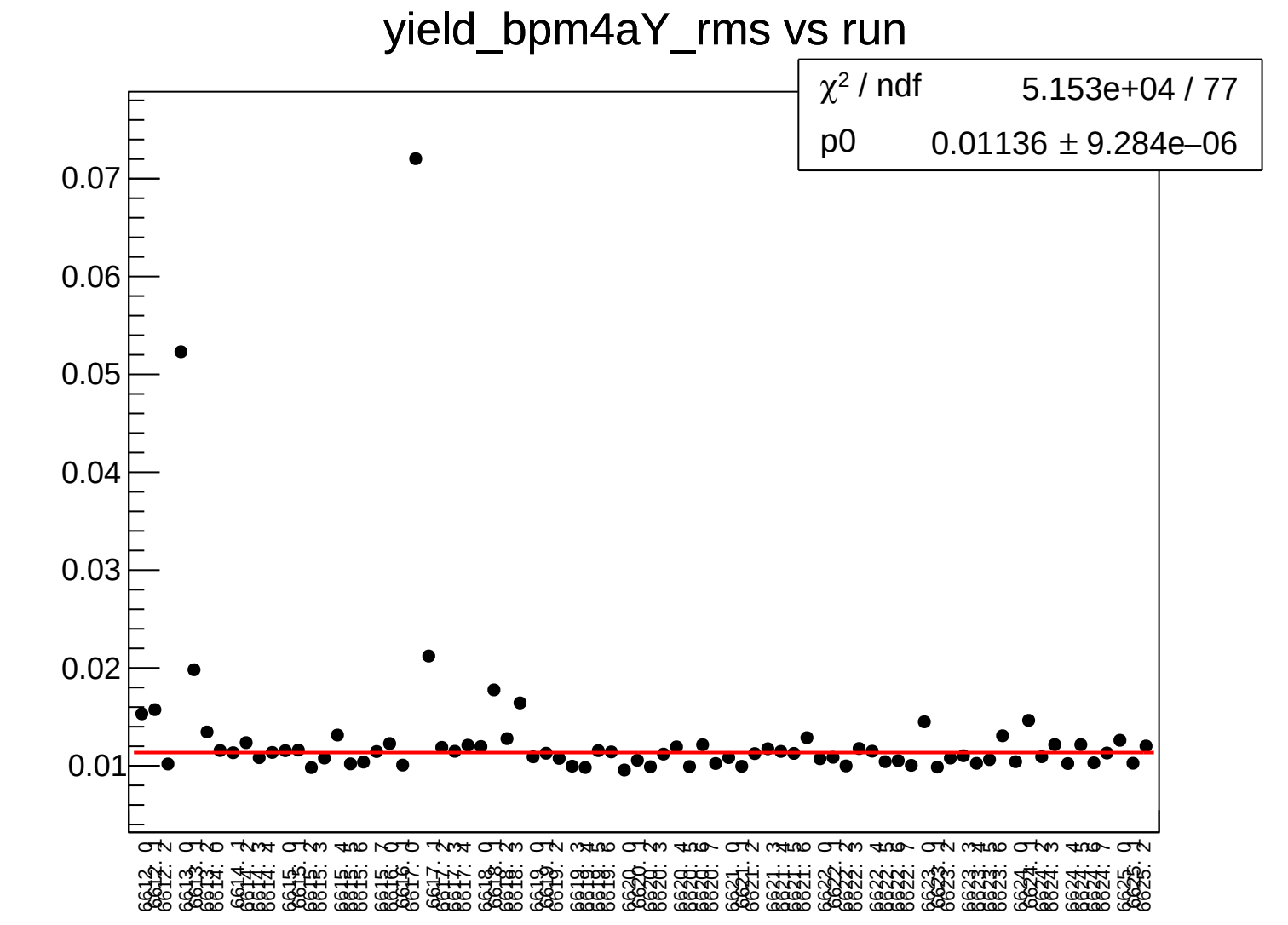

yield_bpm4aX_mean vs run
χ² / ndf 2.8e+05 / 77
p0 −0.5697 ± 2.203e−05
pull
Entries 78
Mean 42.2
Std Dev 19.24

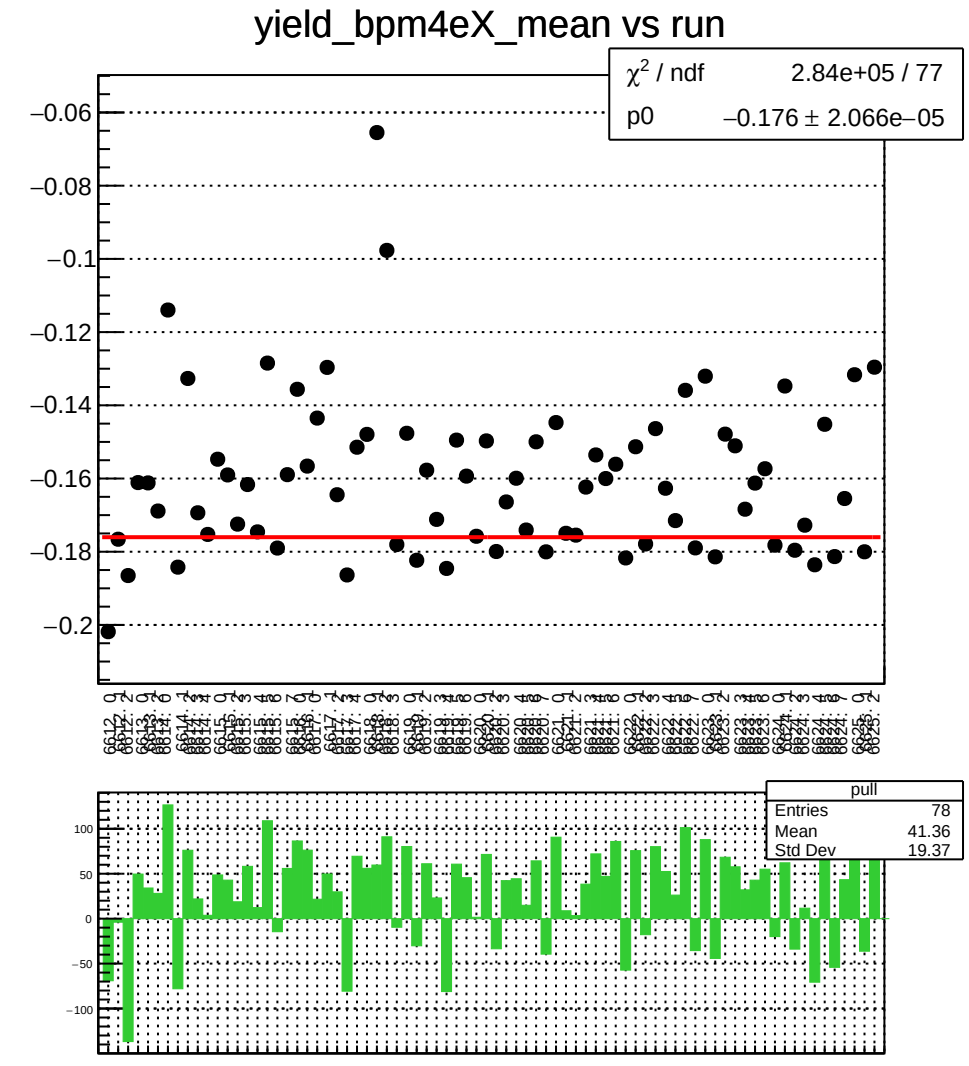

pull1D
Entries 78
Mean 0.2364
Std Dev 4.343

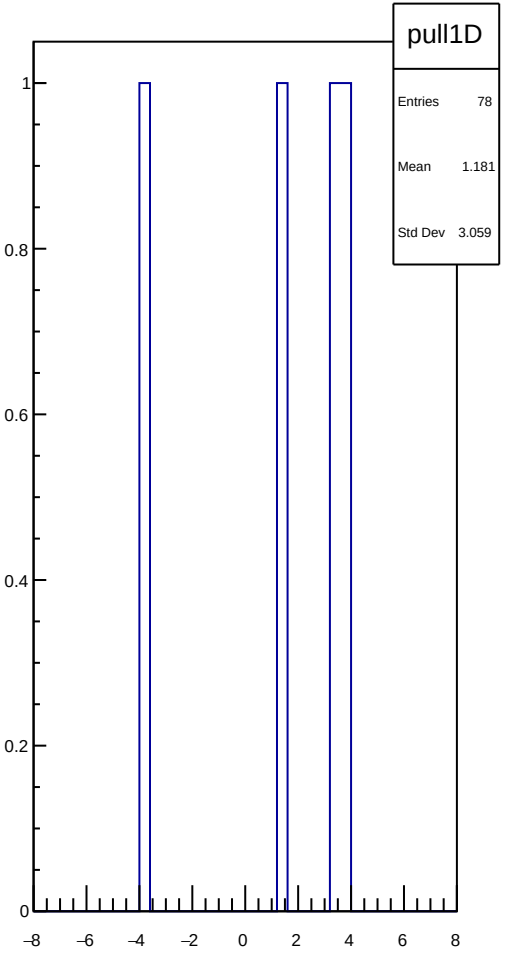

yield_bpm4aX_rms vs run
χ² / ndf 4.866e+05 / 77
p0 0.01605 ± 1.558e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

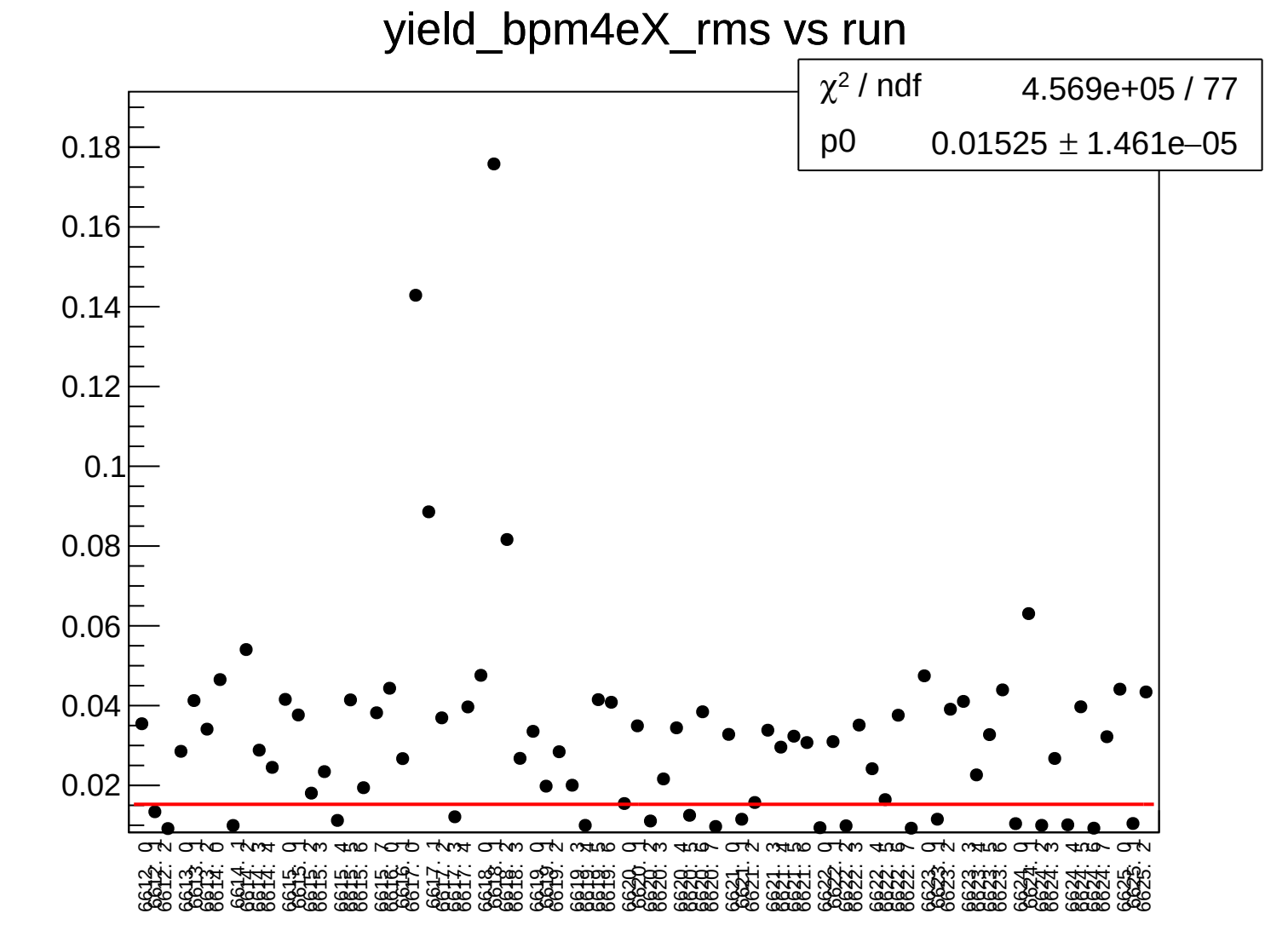

yield_bpm4aY_mean vs run
χ² / ndf 7.386e+04 / 77
p0 0.6179 ± 1.313e−05
0.64
0.635
0.63
0.625
0.62
0.615
0.61
0.605
pull
Entries 78
Mean 77.92
Std Dev 16.08
80
60
40
20
0
−20
−40
−60

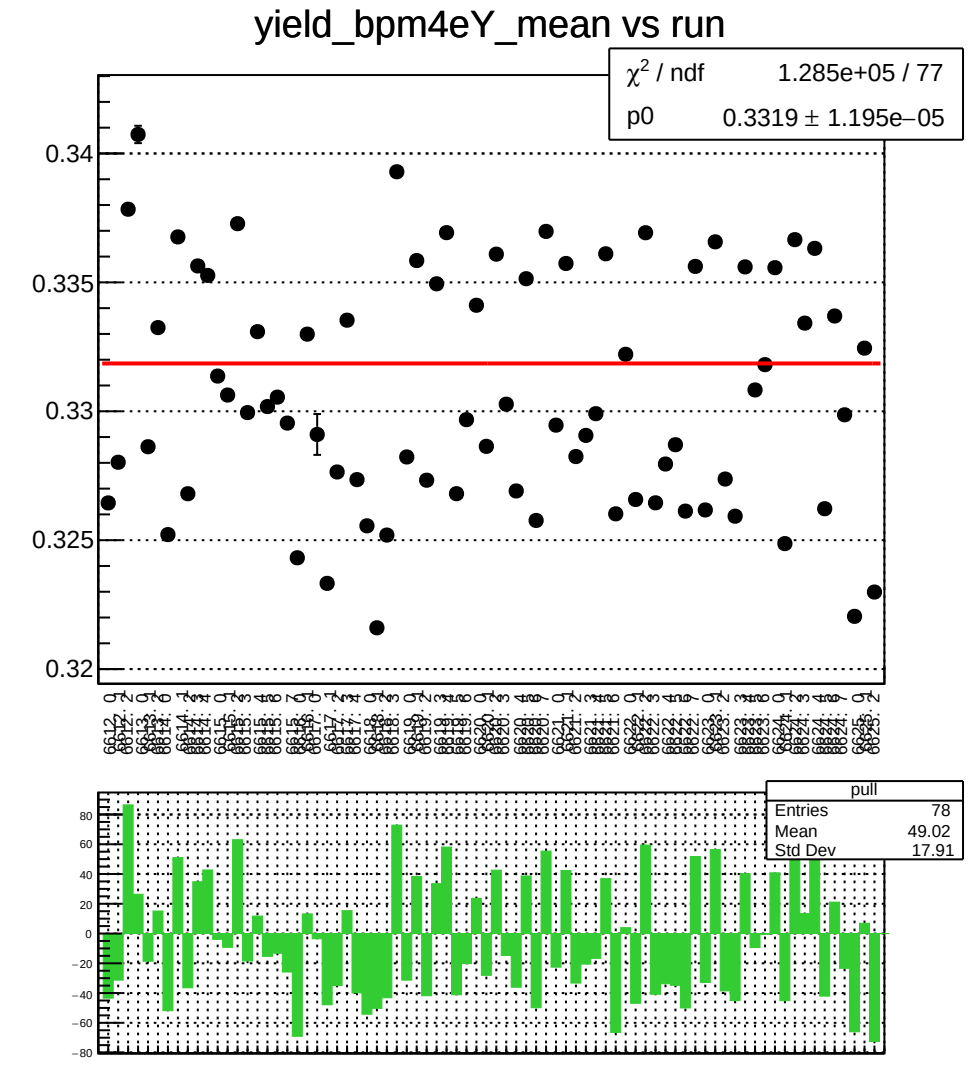

pull1D
Entries 78
Mean −0.7438
Std Dev 3.719
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

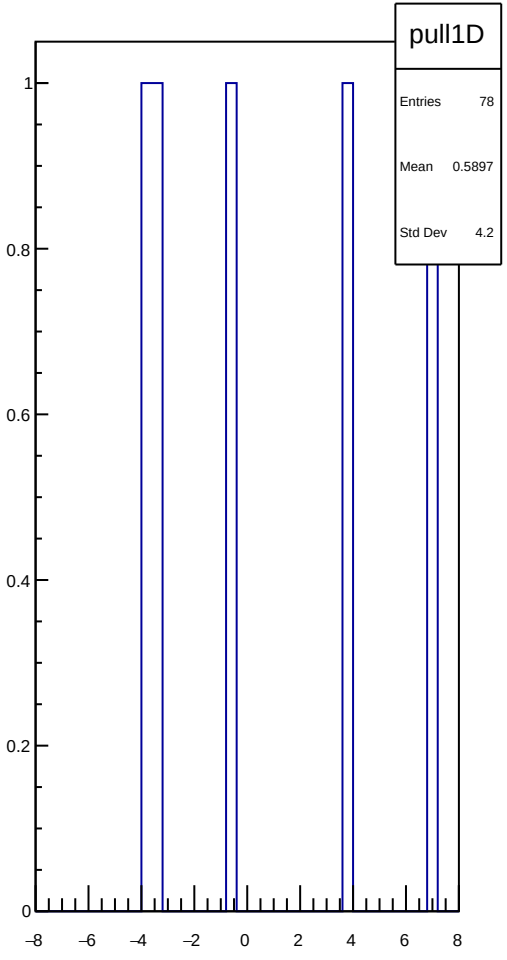

yield_bpm4aY_rms vs run
χ² / ndf 5.153e+04 / 77
p0 0.01136 ± 9.284e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

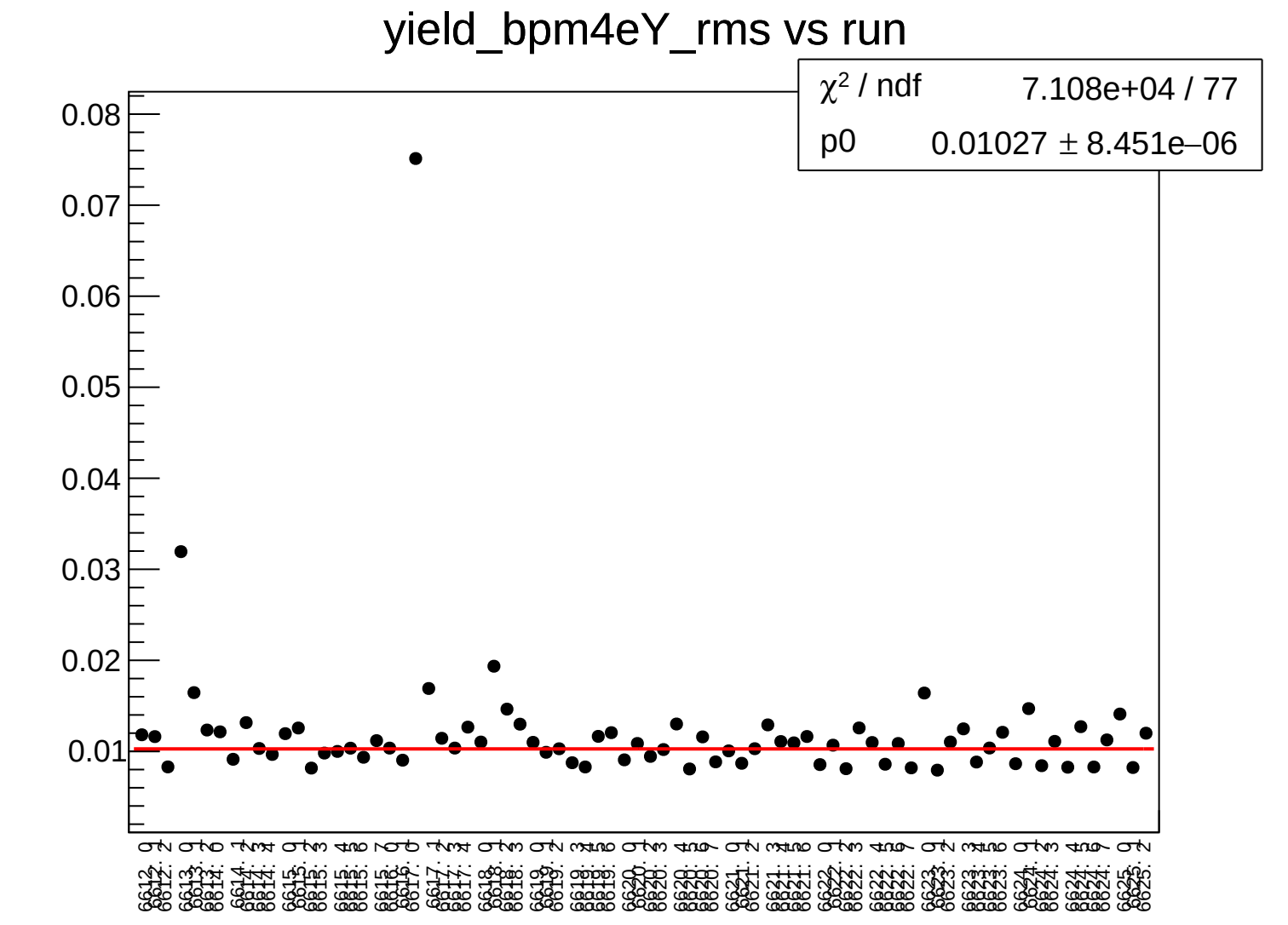

yield_bpm4eX_mean vs run
χ² / ndf 2.84e+05 / 77
p0 −0.176 ± 2.066e−05
pull
Entries 78
Mean 41.36
Std Dev 19.37

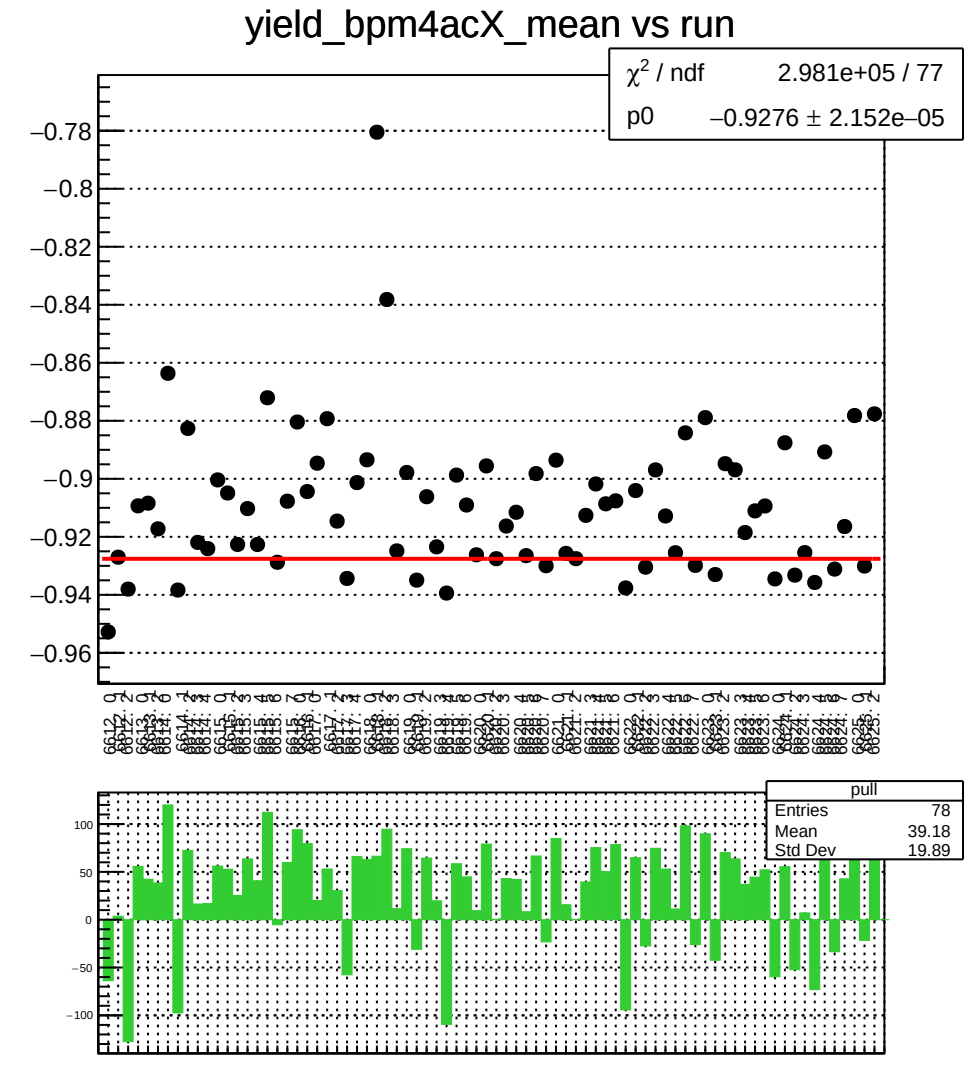

pull1D
Entries 78
Mean 1.181
Std Dev 3.059

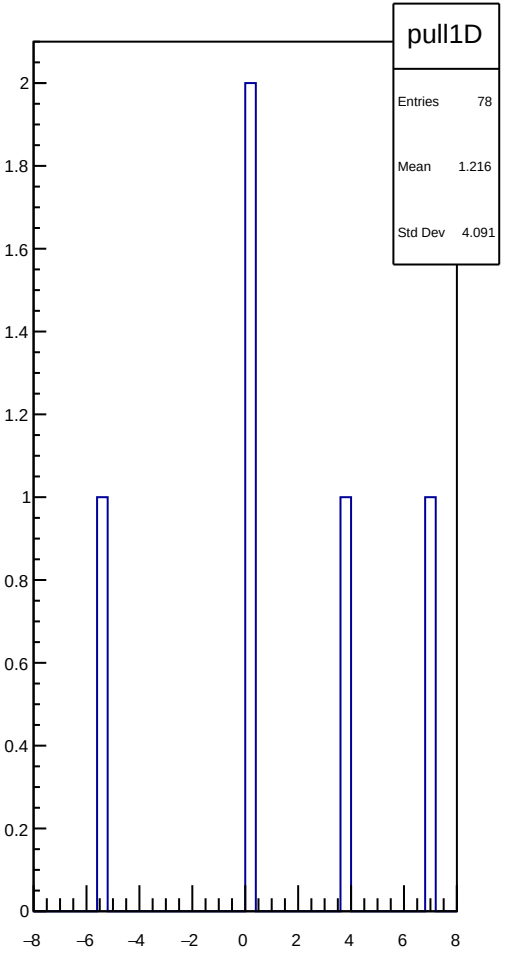

yield_bpm4eX_rms vs run
χ² / ndf 4.569e+05 / 77
p0 0.01525 ± 1.461e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

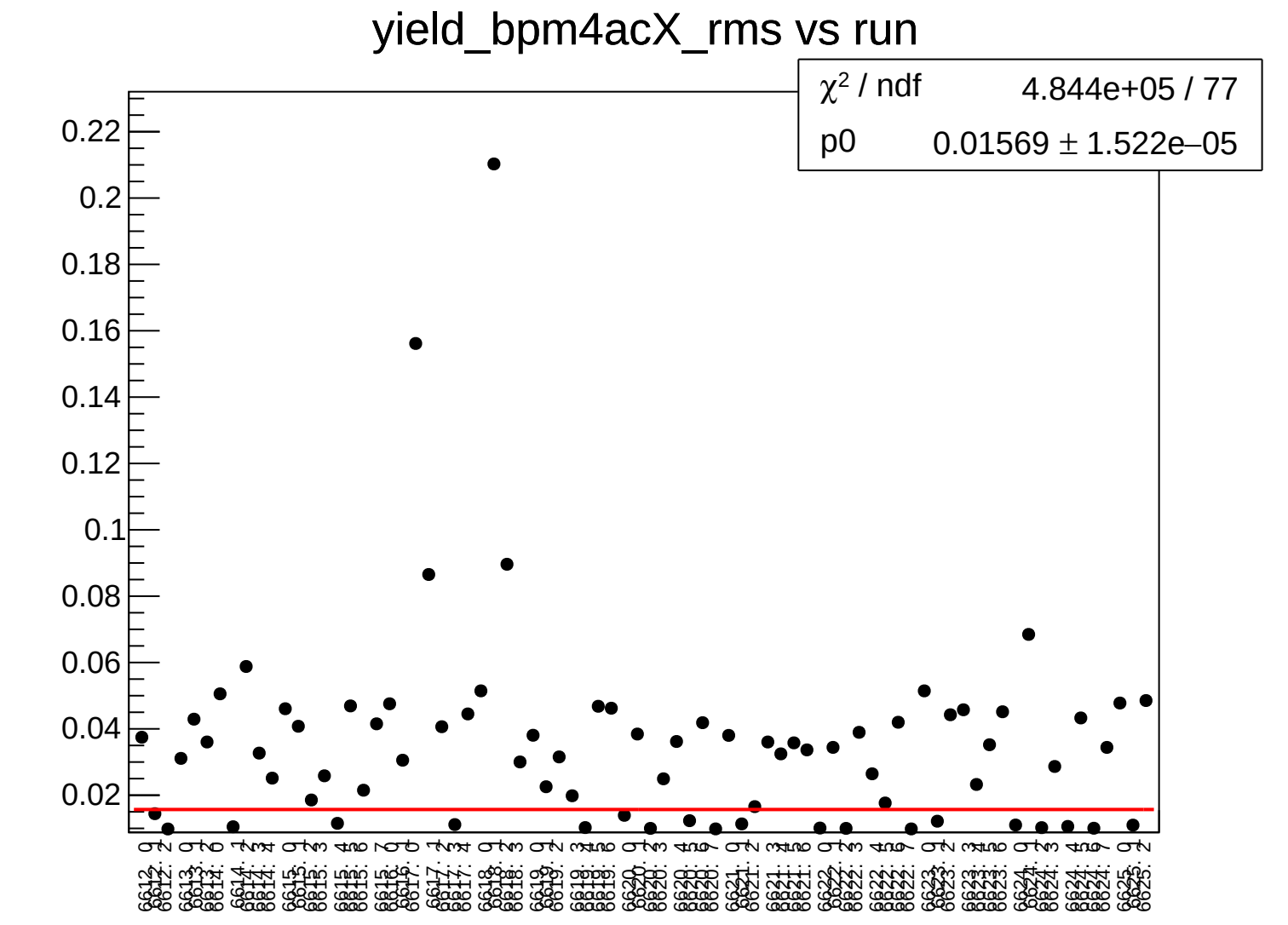

yield_bpm4eY_mean vs run
χ² / ndf 1.285e+05 / 77
p0 0.3319 ± 1.195e−05
0.34
0.335
0.33
0.325
0.32
pull
Entries 78
Mean 49.02
Std Dev 17.91
80
60
40
20
0
−20
−40
−60
−80

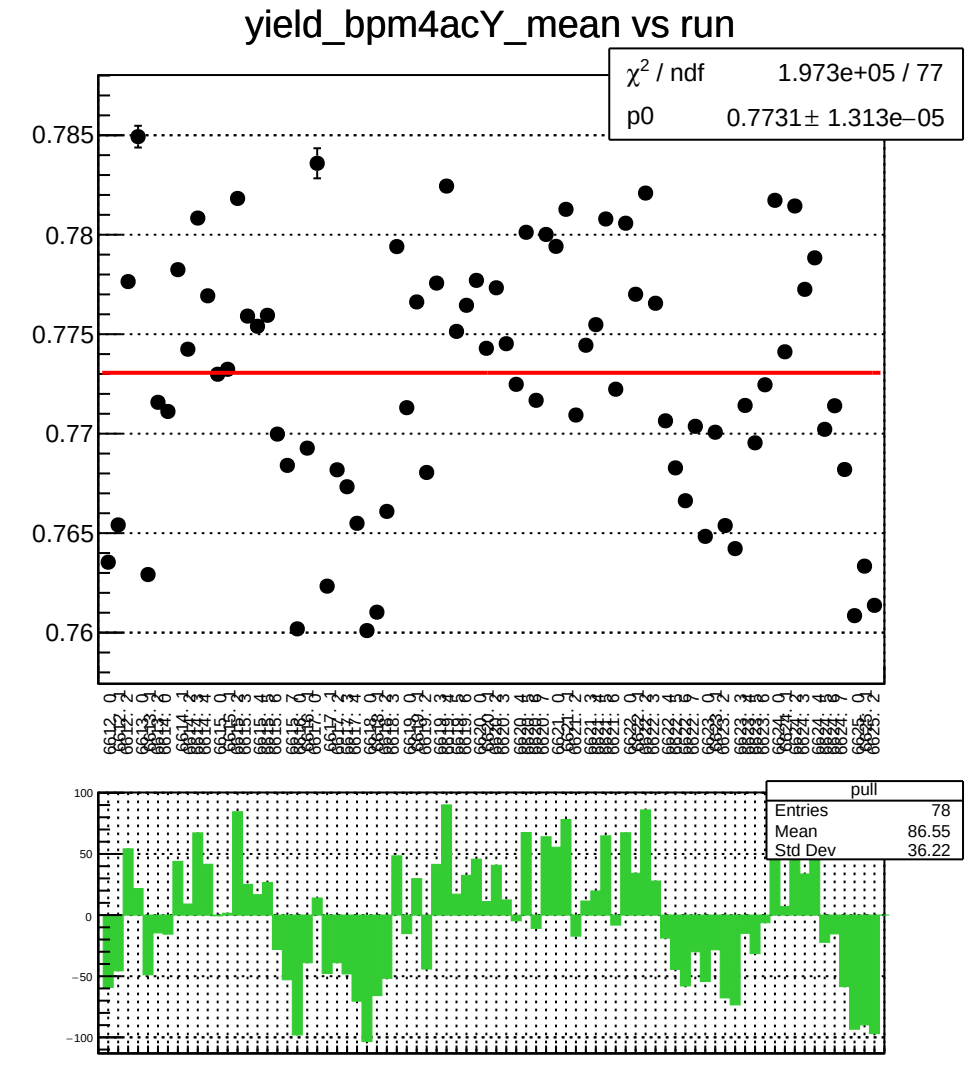

pull1D
Entries 78
Mean 0.5897
Std Dev 4.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

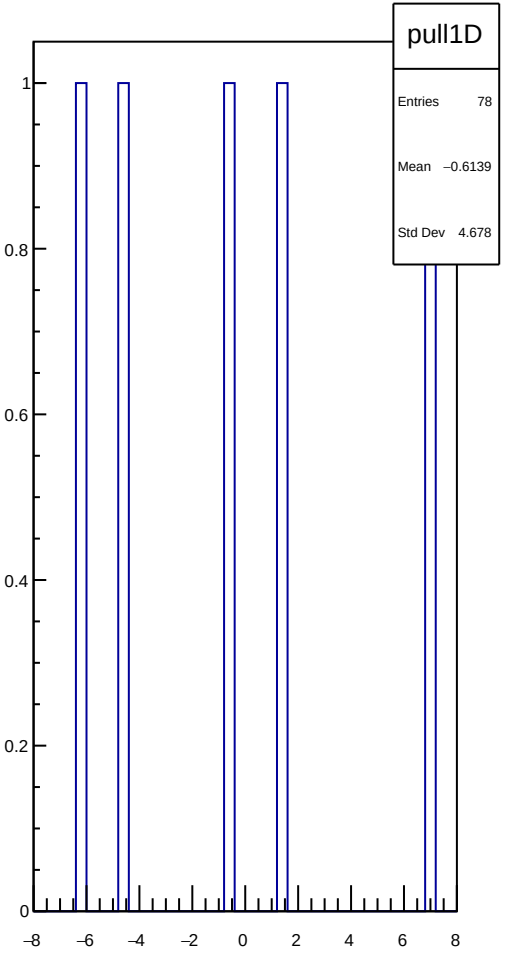

yield_bpm4eY_rms vs run
χ² / ndf 7.108e+04 / 77
p0 0.01027 ± 8.451e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

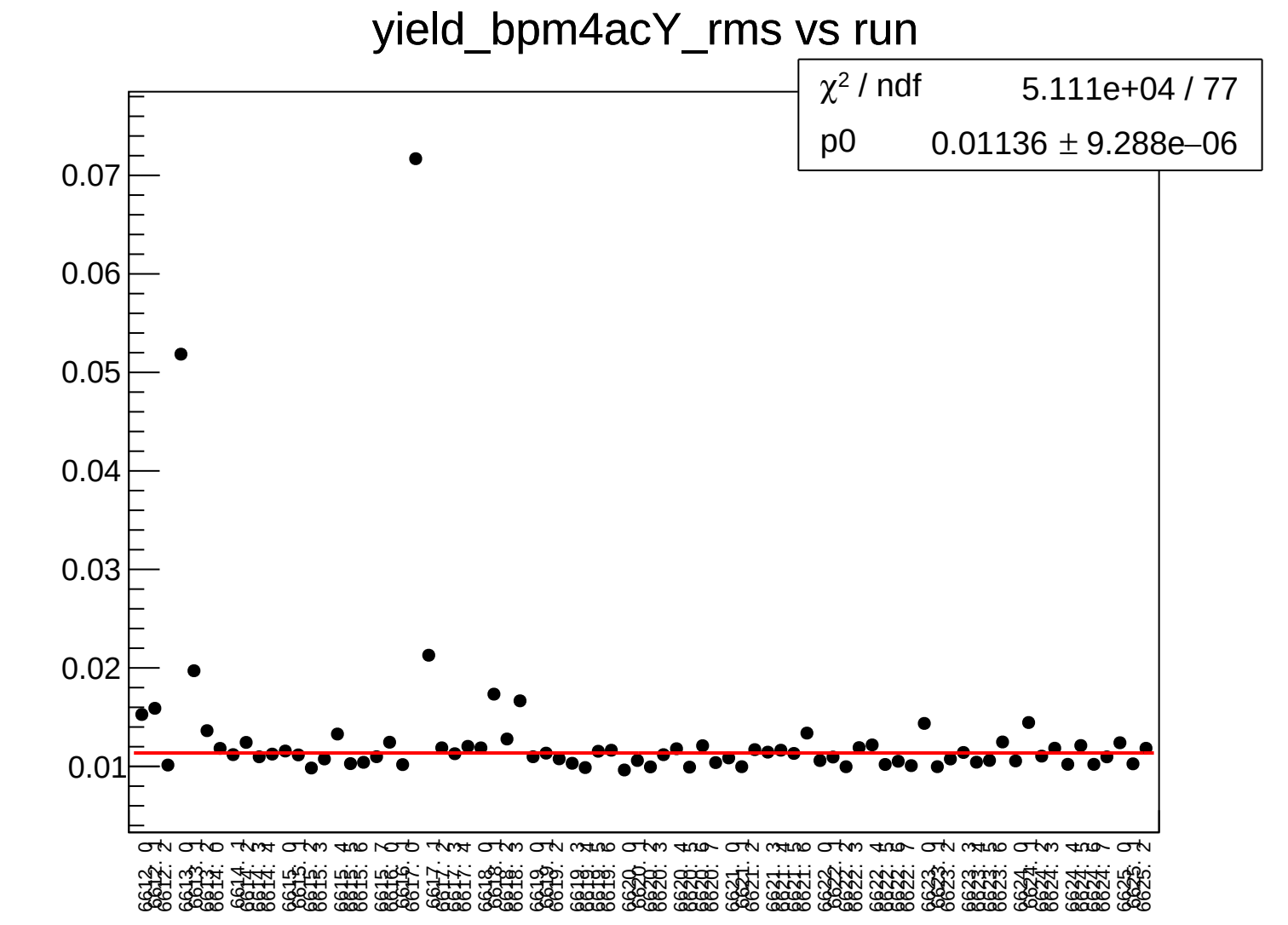

yield_bpm4acX_mean vs run
χ² / ndf 2.981e+05 / 77
p0 −0.9276 ± 2.152e−05
pull
Entries 78
Mean 39.18
Std Dev 19.89

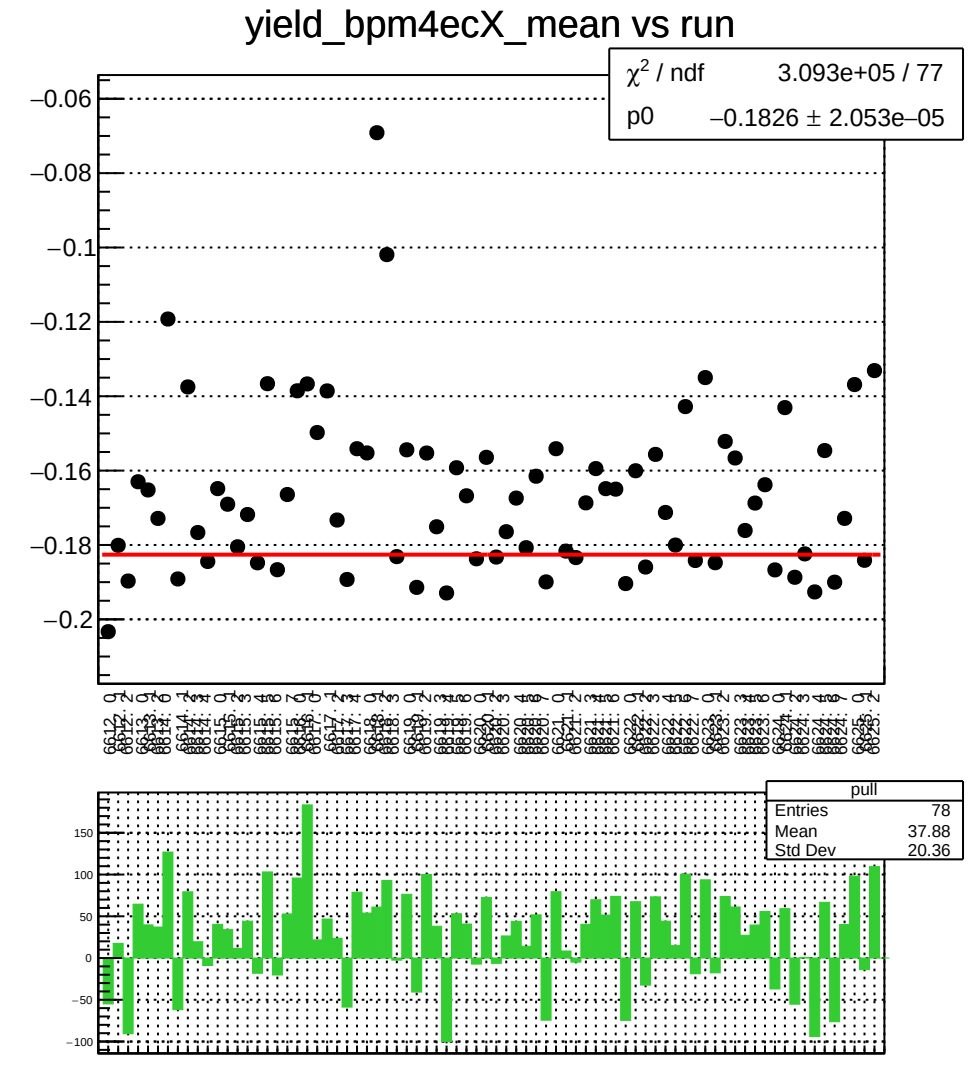

pull1D
Entries 78
Mean 1.216
Std Dev 4.091

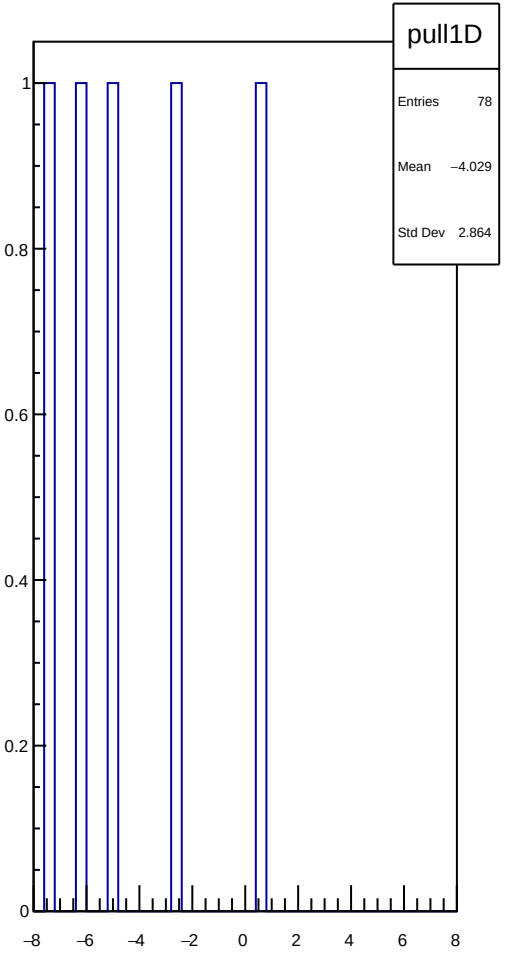

yield_bpm4acX_rms vs run
χ² / ndf 4.844e+05 / 77
p0 0.01569 ± 1.522e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

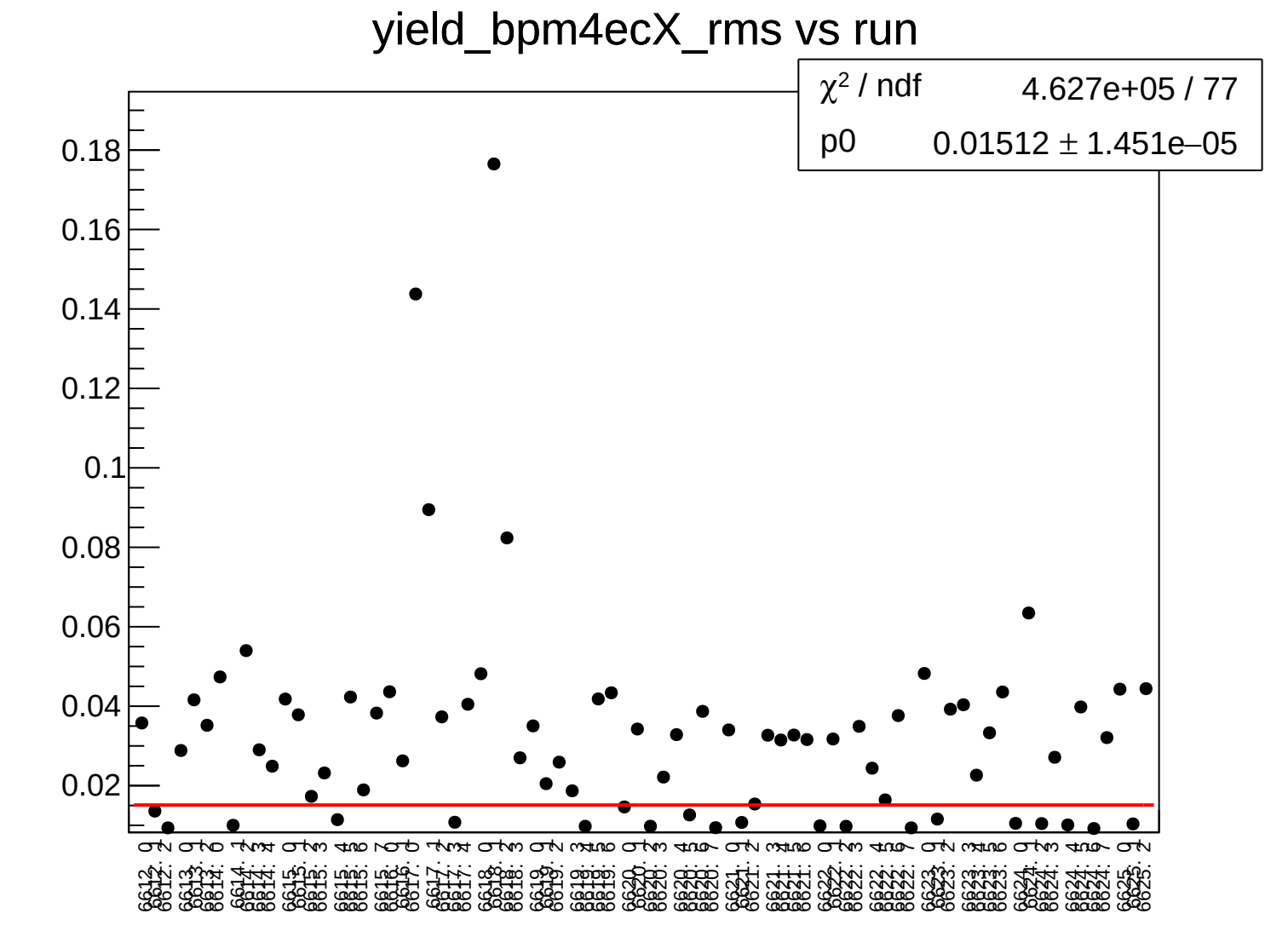

yield_bpm4acY_mean vs run
χ² / ndf 1.973e+05 / 77
p0 0.7731 ± 1.313e−05
0.785
0.78
0.775
0.77
0.765
0.76
pull
Entries 78
Mean 86.55
Std Dev 36.22
100
50
0
−50
−100

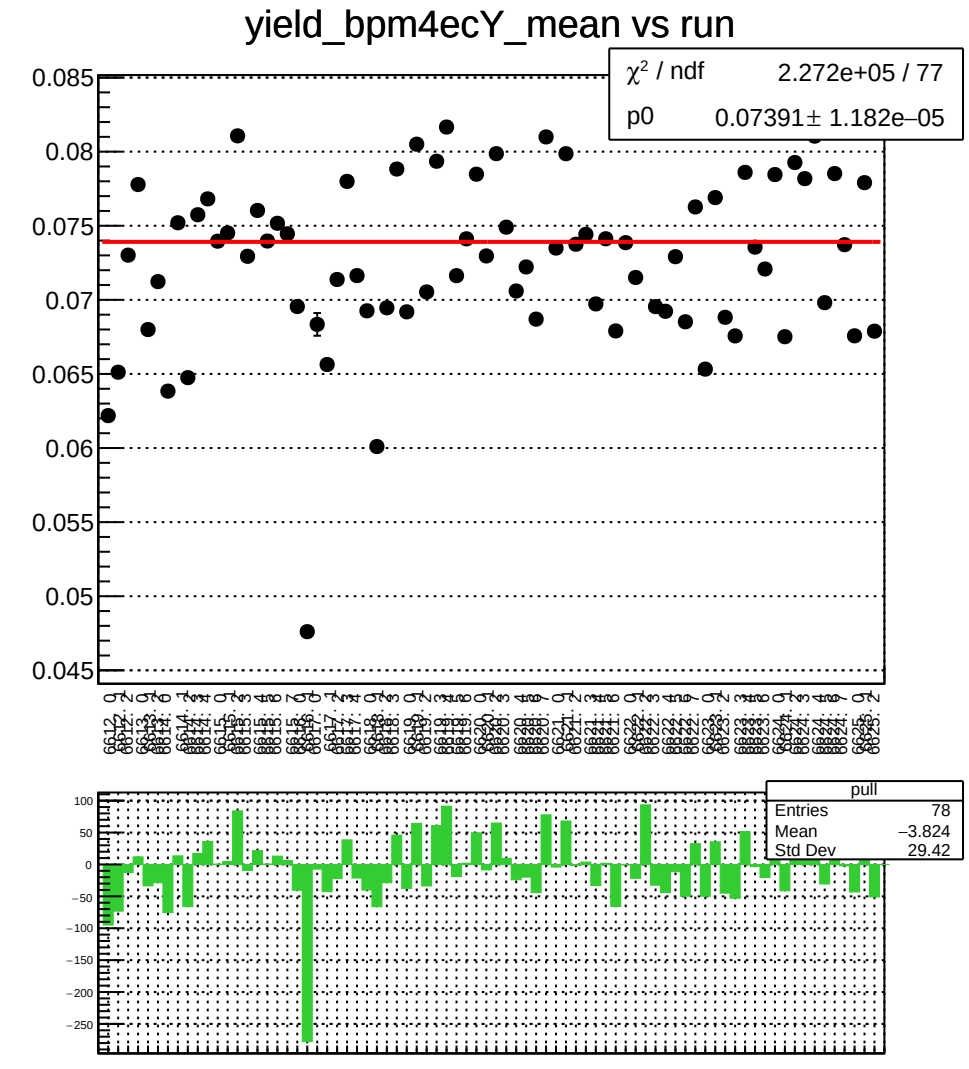

pull1D
Entries 78
Mean −0.6139
Std Dev 4.678
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

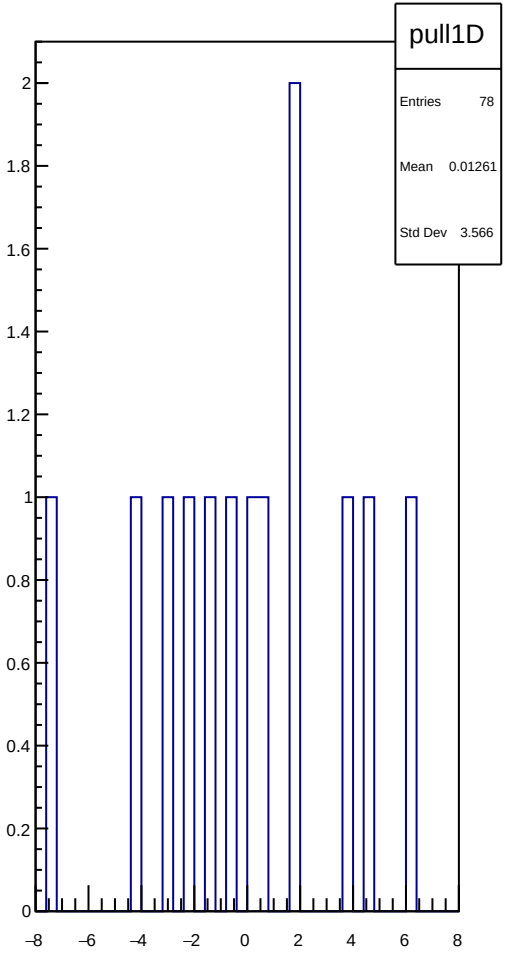

yield_bpm4acY_rms vs run
χ² / ndf 5.111e+04 / 77
p0 0.01136 ± 9.288e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

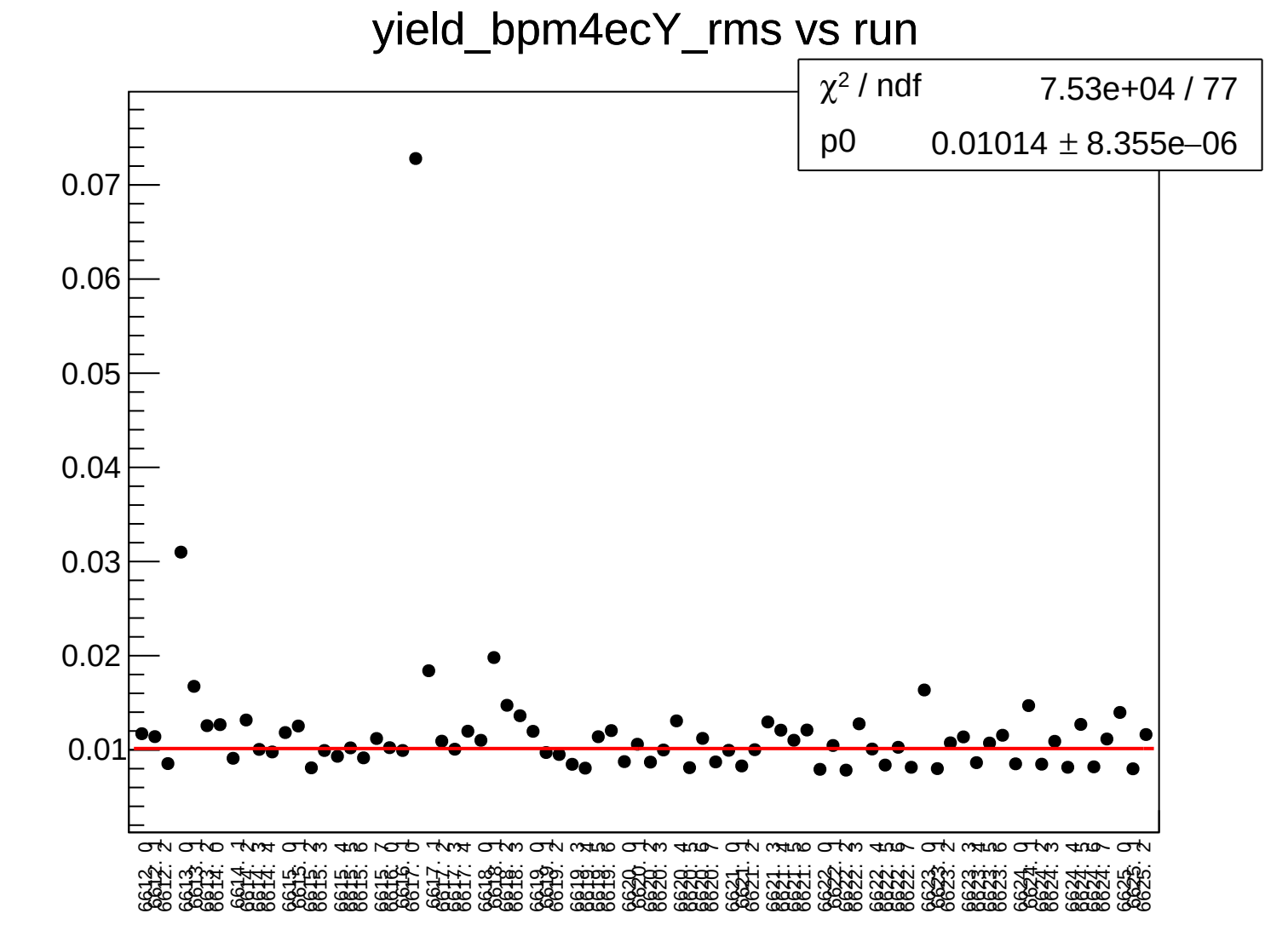

yield_bpm4ecX_mean vs run
χ² / ndf 3.093e+05 / 77
p0 −0.1826 ± 2.053e−05
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
pull
Entries 78
Mean 37.88
Std Dev 20.36
150
100
50
0
−50
−100

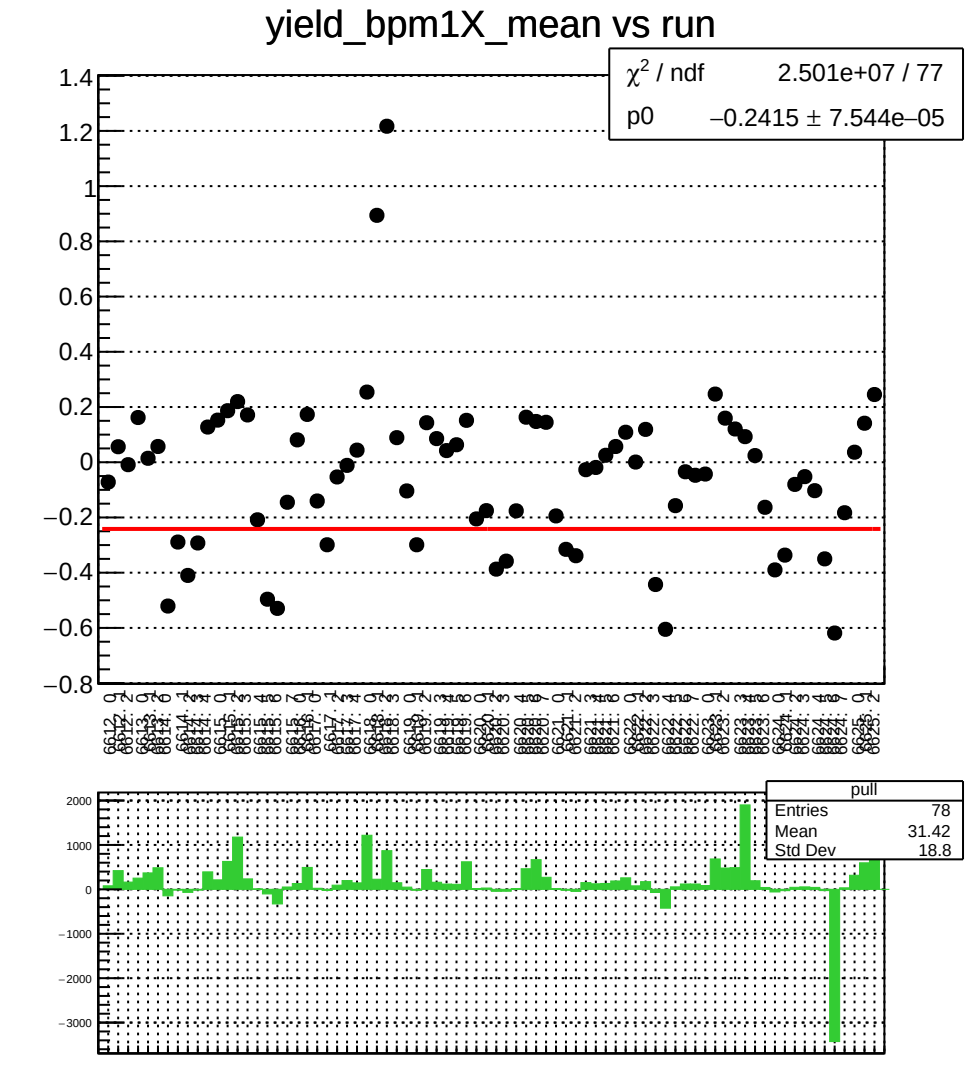

pull1D
Entries 78
Mean −4.029
Std Dev 2.864
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

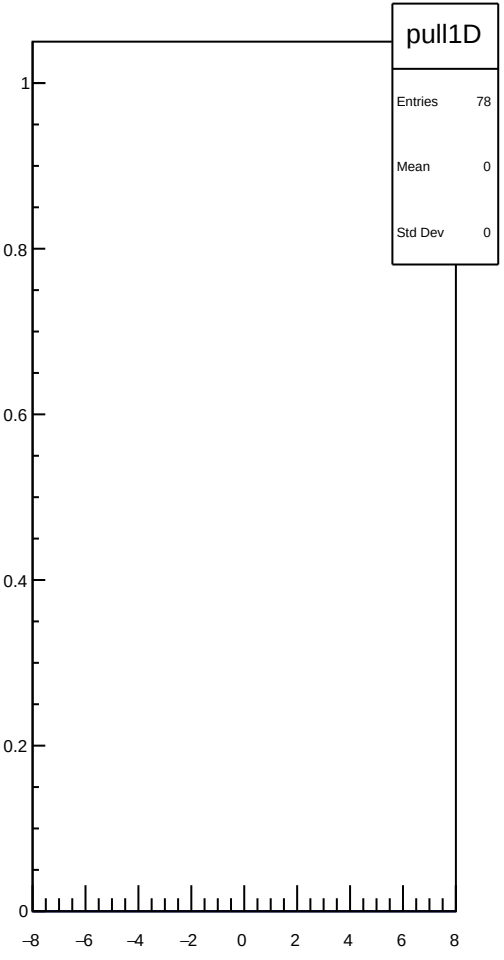

yield_bpm4ecX_rms vs run
χ² / ndf 4.627e+05 / 77
p0 0.01512 ± 1.451e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

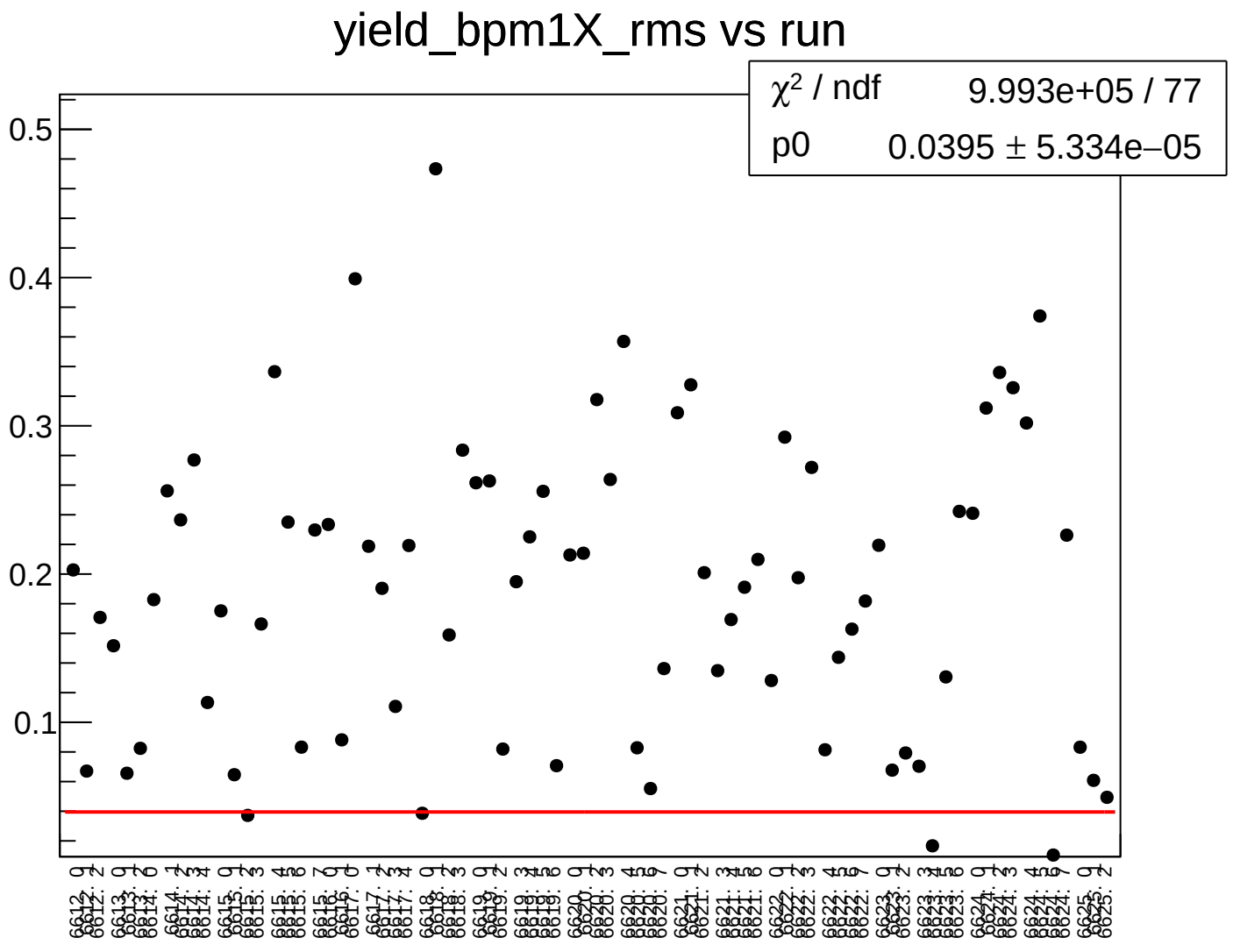

yield_bpm4ecY_mean vs run
χ² / ndf 2.272e+05 / 77
p0 0.07391± 1.182e–05
pull
Entries 78
Mean –3.824
Std Dev 29.42

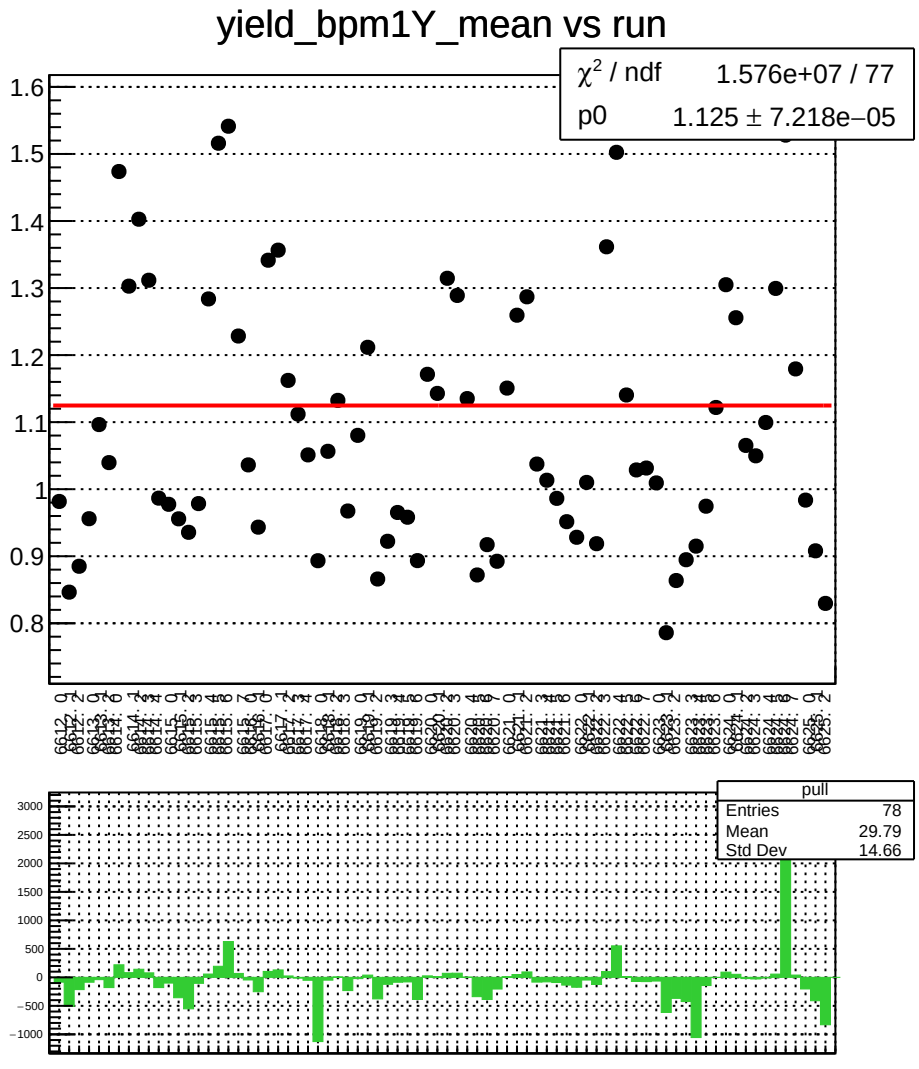

pull1D
Entries 78
Mean 0.01261
Std Dev 3.566

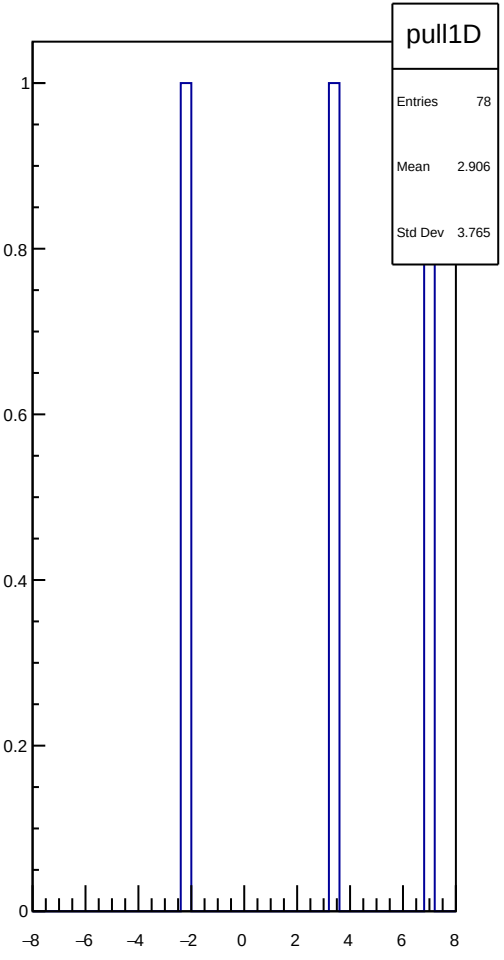

yield_bpm4ecY_rms vs run
χ² / ndf 7.53e+04 / 77
p0 0.01014 ± 8.355e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

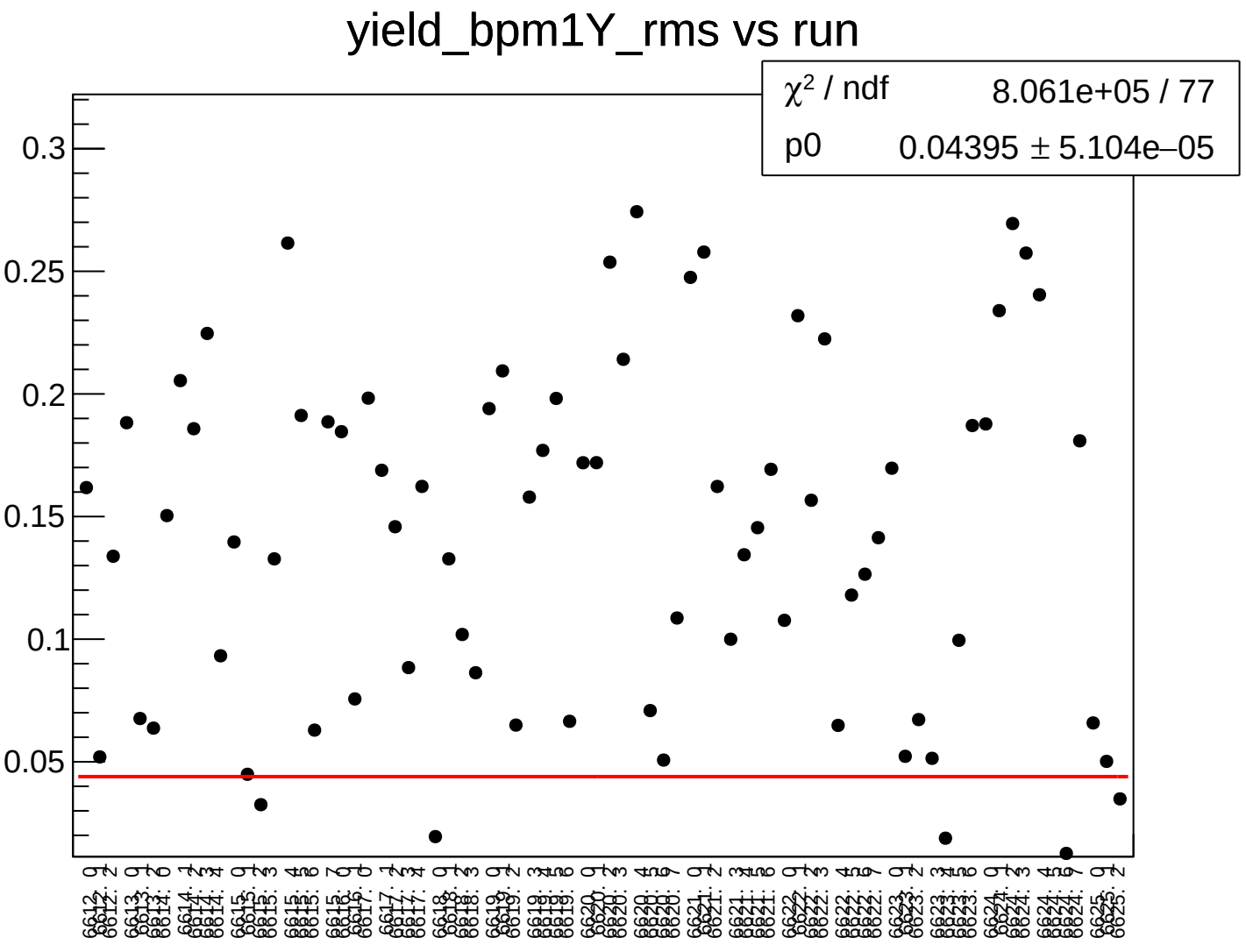

yield_bpm1X_mean vs run
χ² / ndf 2.501e+07 / 77
p0 −0.2415 ± 7.544e−05
pull
Entries 78
Mean 31.42
Std Dev 18.8

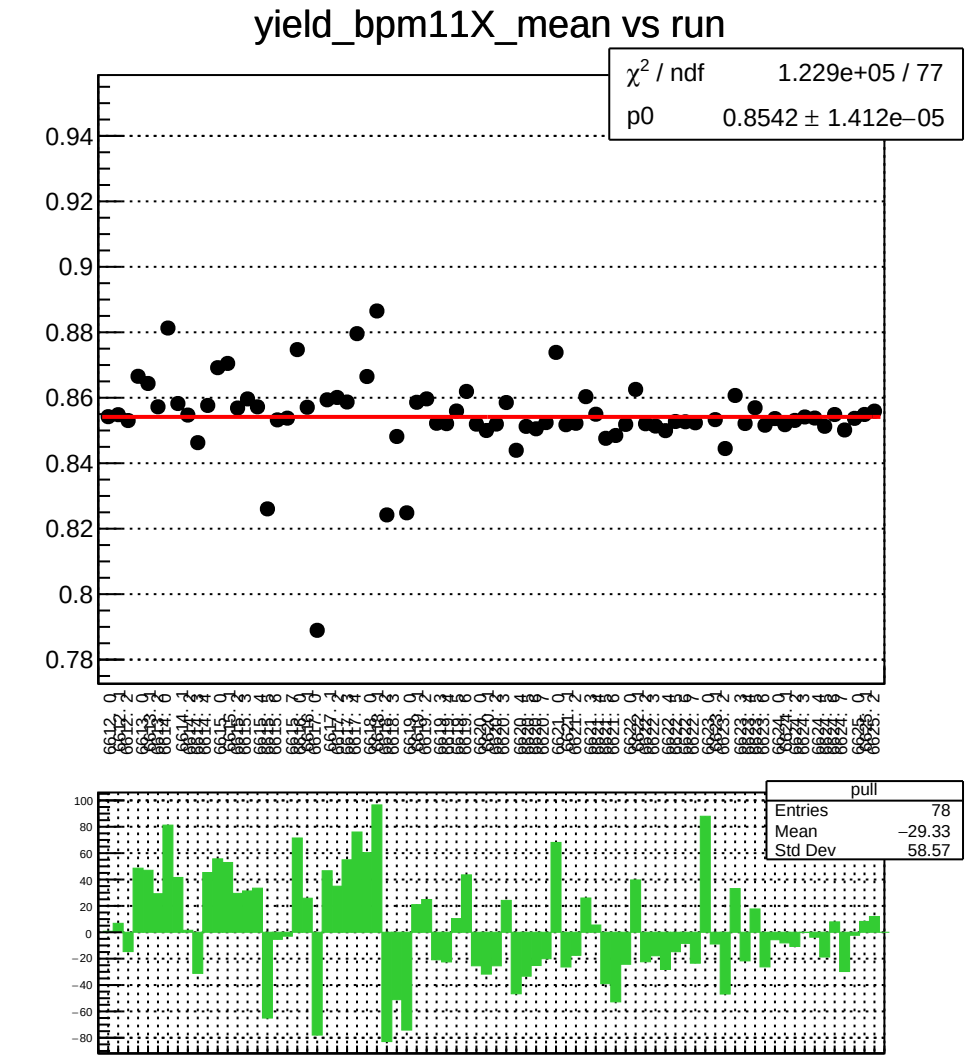

pull1D
Entries 78
Mean 0
Std Dev 0

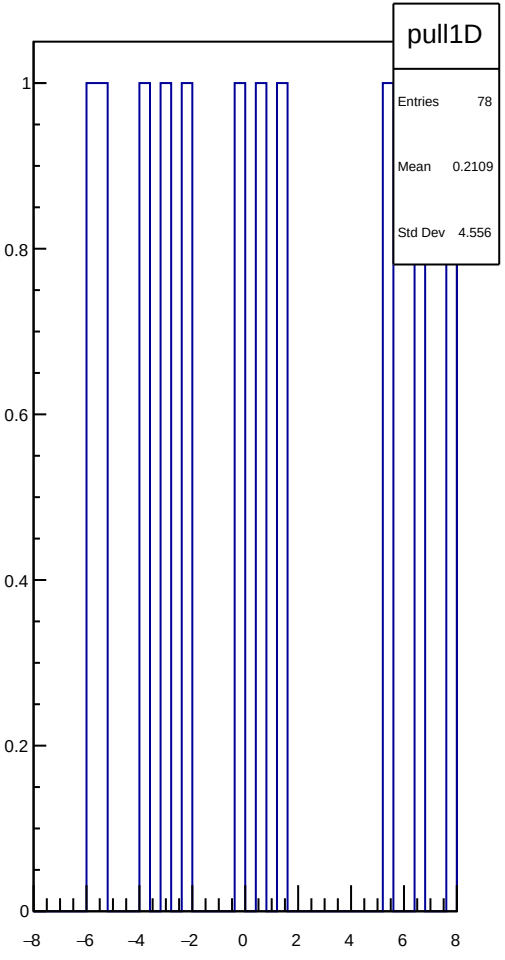

yield_bpm1X_rms vs run
χ² / ndf 9.993e+05 / 77
p0 0.0395 ± 5.334e−05
0.5
0.4
0.3
0.2
0.1

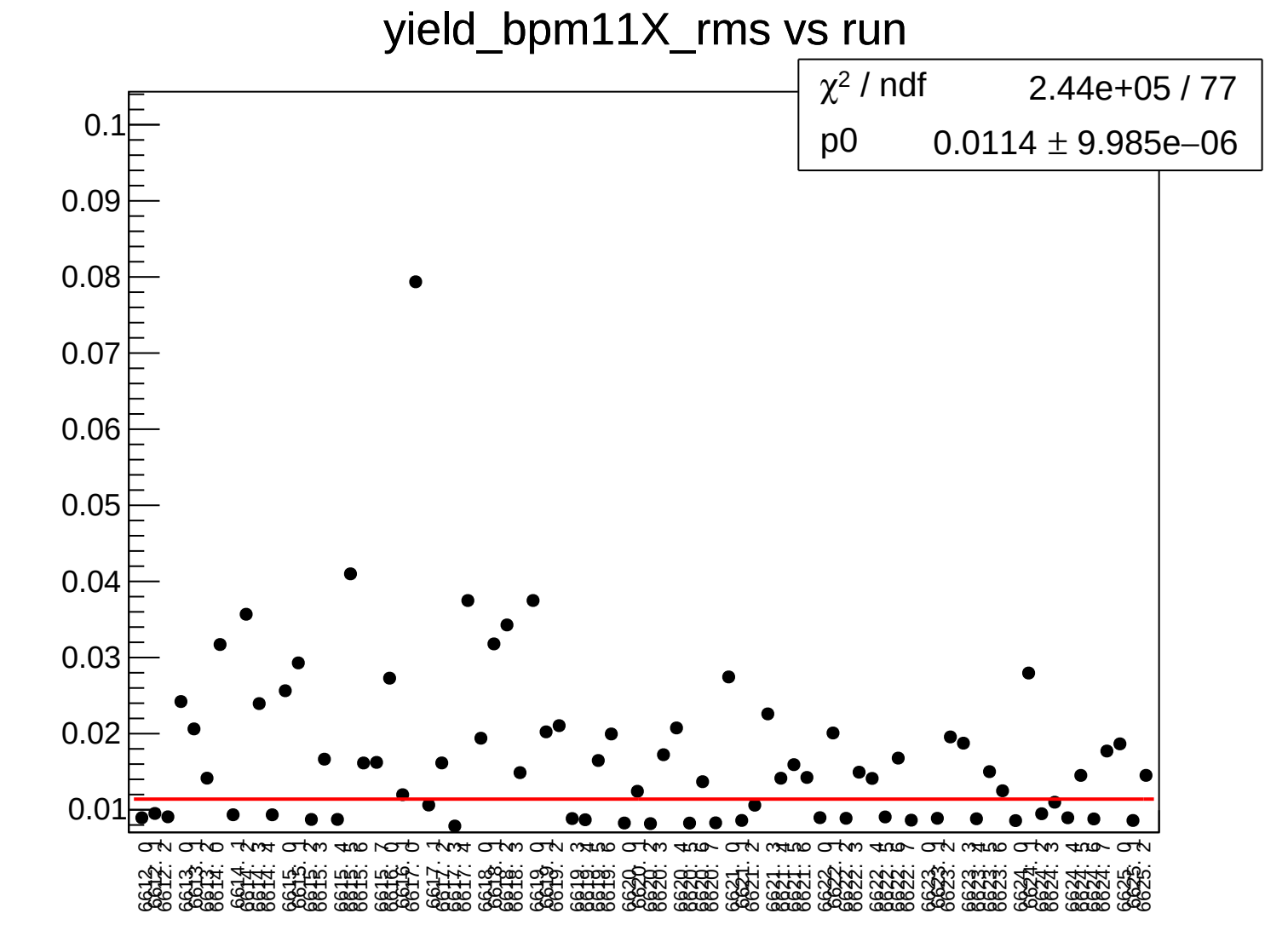

yield_bpm1Y_mean vs run
χ² / ndf 1.576e+07 / 77
p0 1.125 ± 7.218e−05
pull
Entries 78
Mean 29.79
Std Dev 14.66

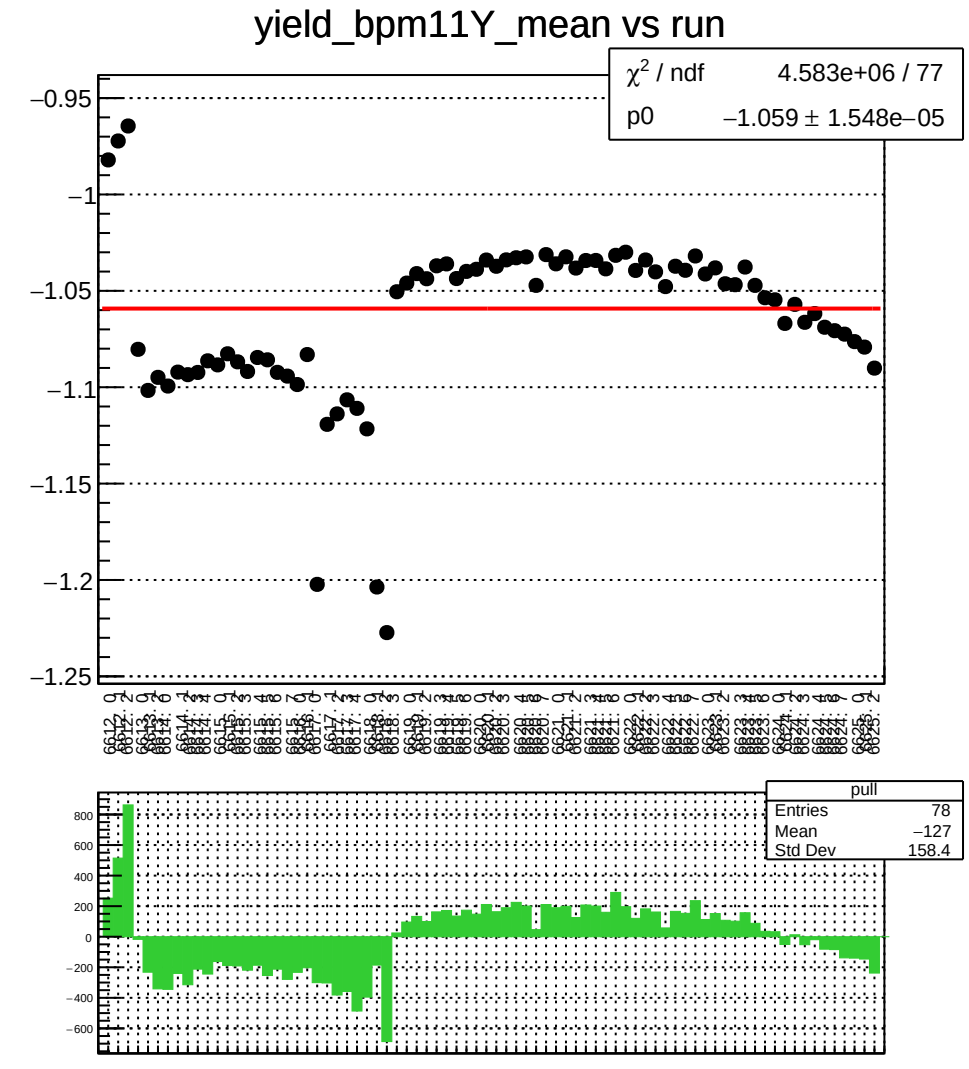

pull1D
Entries 78
Mean 2.906
Std Dev 3.765

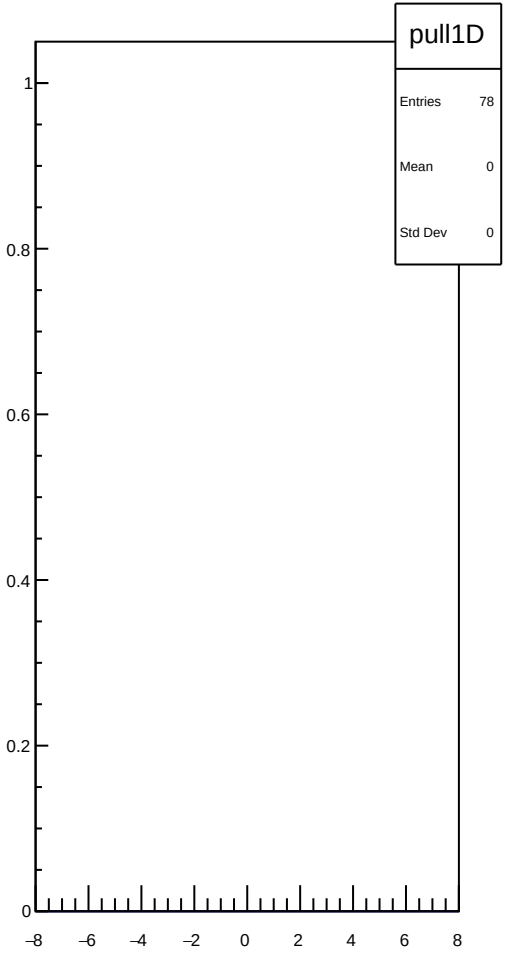

yield_bpm1Y_rms vs run
χ² / ndf 8.061e+05 / 77
p0 0.04395 ± 5.104e−05
0.3
0.25
0.2
0.15
0.1
0.05

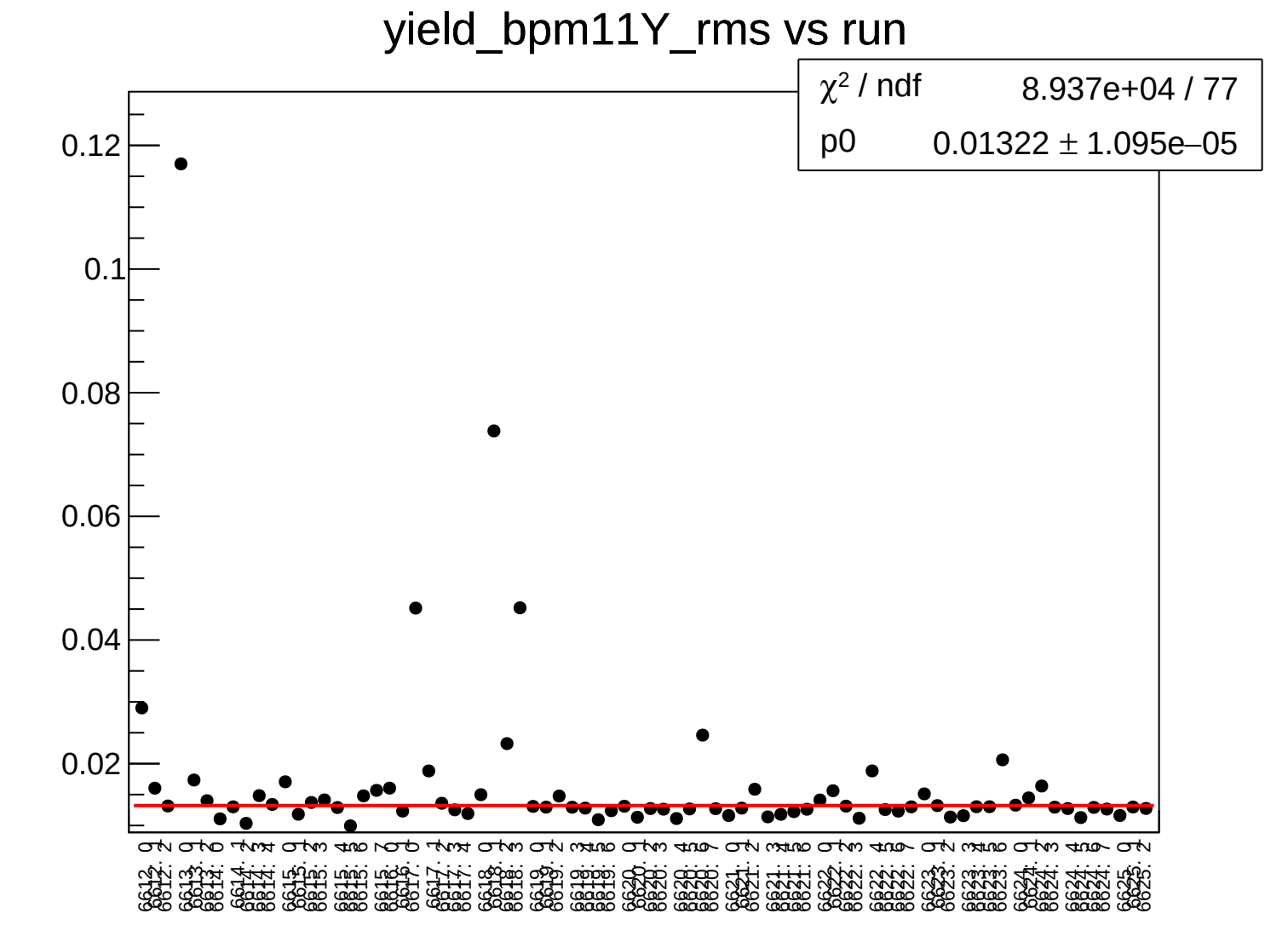

yield_bpm11X_mean vs run
χ² / ndf 1.229e+05 / 77
p0 0.8542 ± 1.412e−05
pull
Entries 78
Mean −29.33
Std Dev 58.57

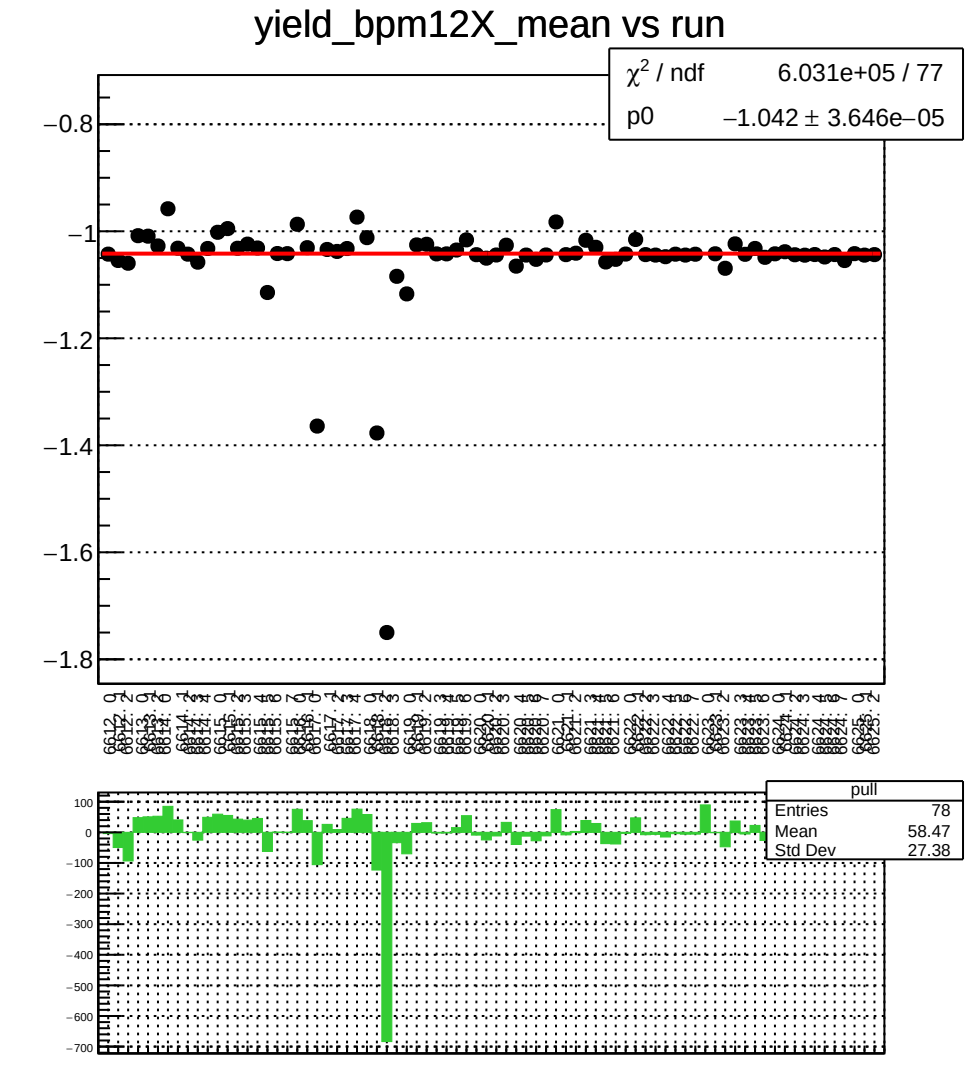

pull1D
Entries 78
Mean 0.2109
Std Dev 4.556

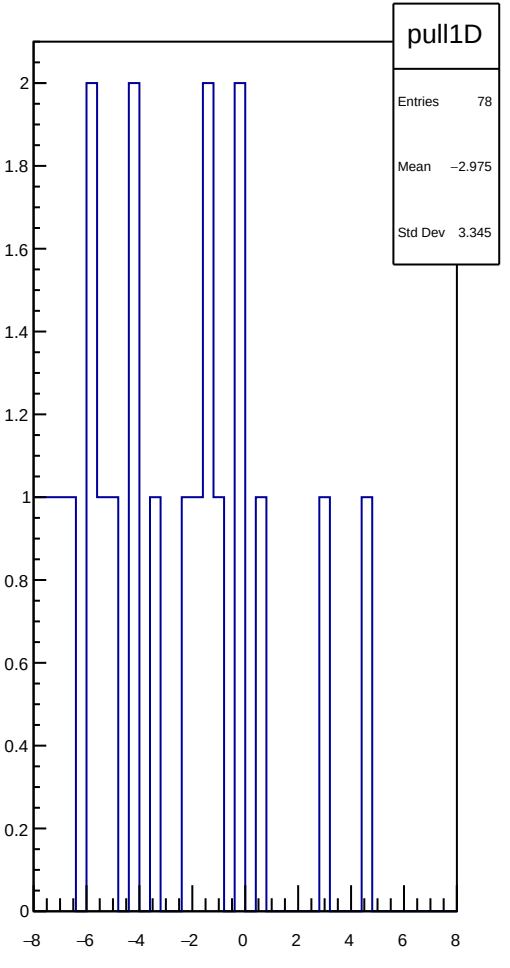

yield_bpm11X_rms vs run
χ² / ndf 2.44e+05 / 77
p0 0.0114 ± 9.985e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

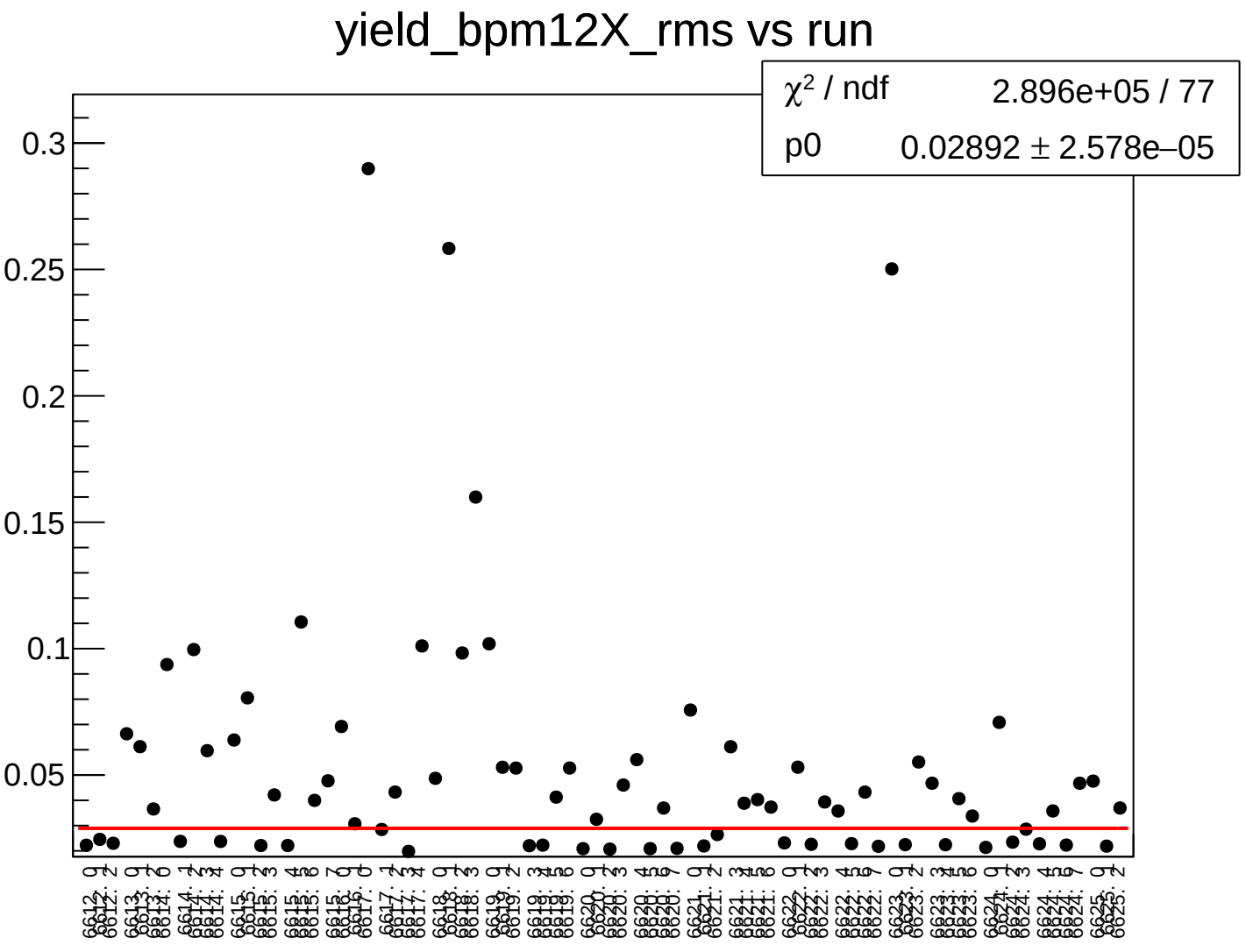

yield_bpm11Y_mean vs run
χ² / ndf 4.583e+06 / 77
p0 −1.059 ± 1.548e−05
−0.95
−1
−1.05
−1.1
−1.15
−1.2
−1.25
pull
Entries 78
Mean −127
Std Dev 158.4
800
600
400
200
0
−200
−400
−600

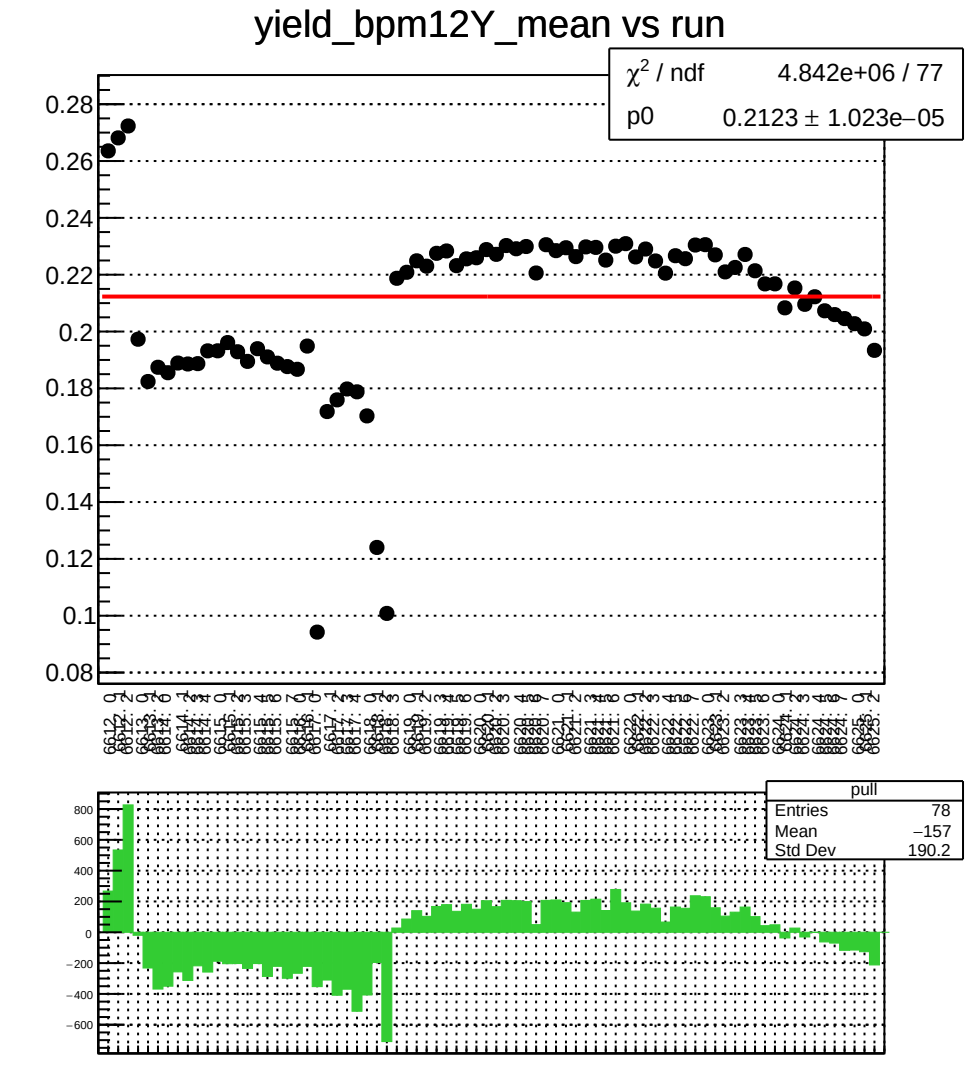

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

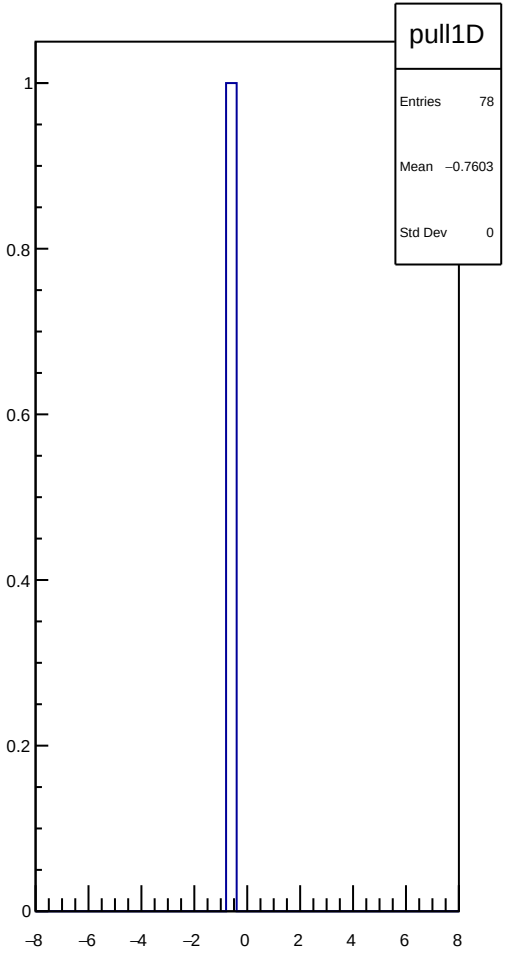

yield_bpm11Y_rms vs run
χ² / ndf 8.937e+04 / 77
p0 0.01322 ± 1.095e−05
0.12
0.1
0.08
0.06
0.04
0.02

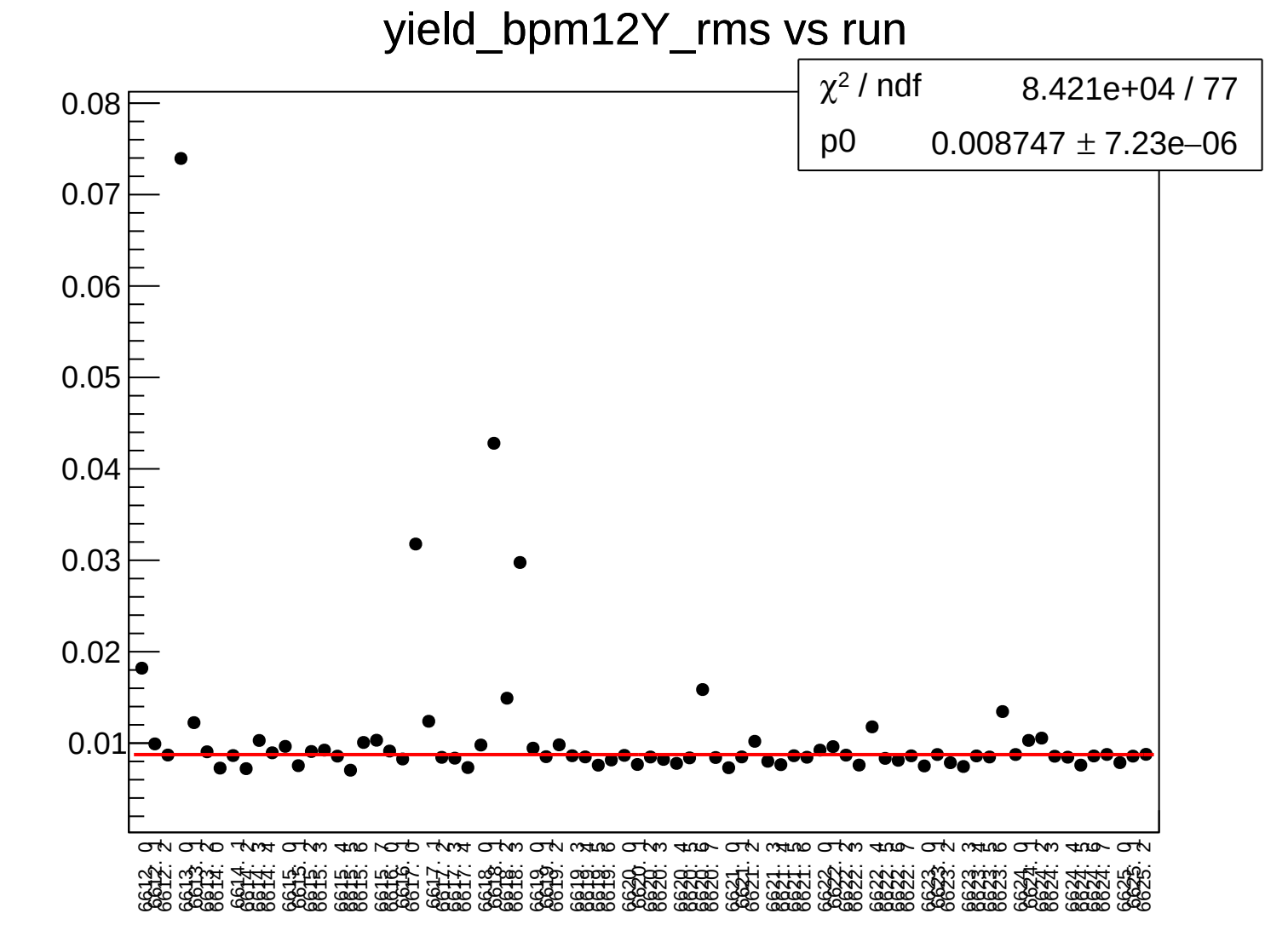

yield_bpm12X_mean vs run
χ² / ndf 6.031e+05 / 77
p0 −1.042 ± 3.646e−05
pull
Entries 78
Mean 58.47
Std Dev 27.38

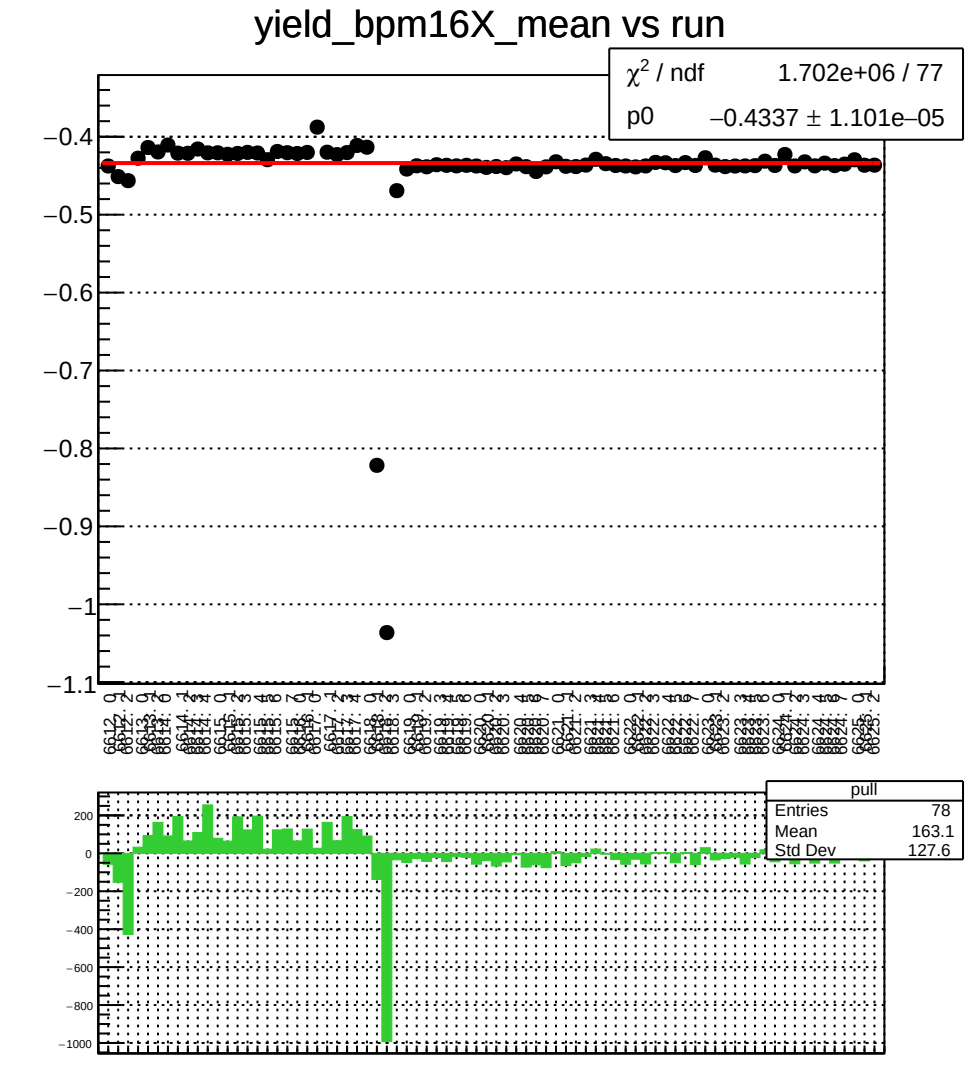

pull1D
Entries 78
Mean −2.975
Std Dev 3.345

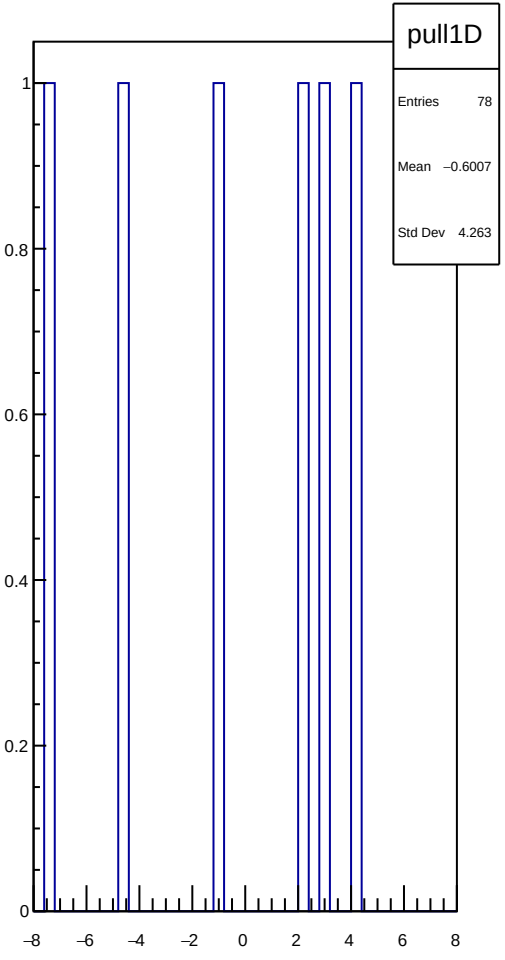

yield_bpm12X_rms vs run
χ² / ndf 2.896e+05 / 77
p0 0.02892 ± 2.578e–05
0.3
0.25
0.2
0.15
0.1
0.05

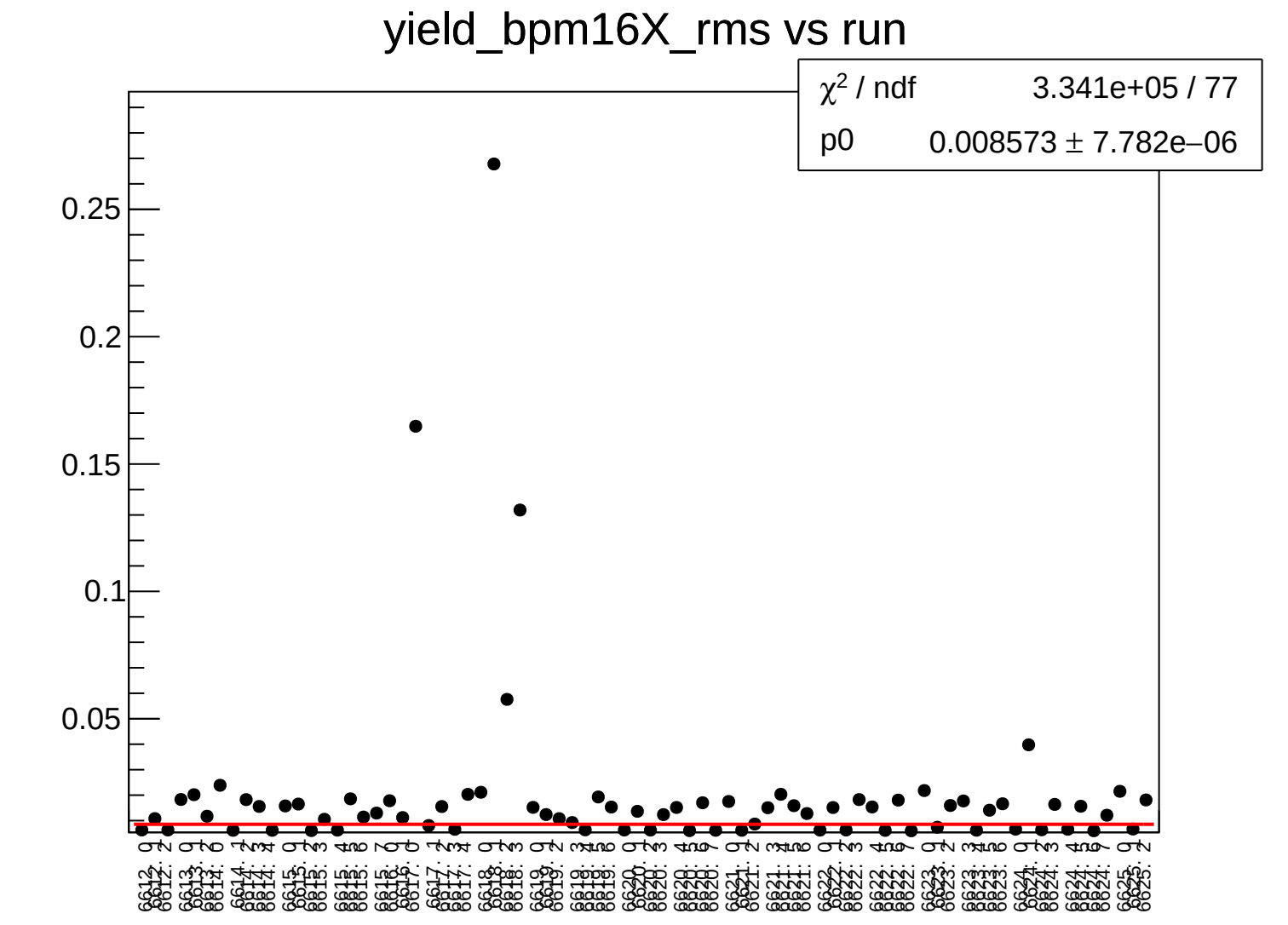

yield_bpm12Y_mean vs run
χ² / ndf 4.842e+06 / 77
p0 0.2123 ± 1.023e−05
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
pull
Entries 78
Mean −157
Std Dev 190.2
800
600
400
200
0
−200
−400
−600

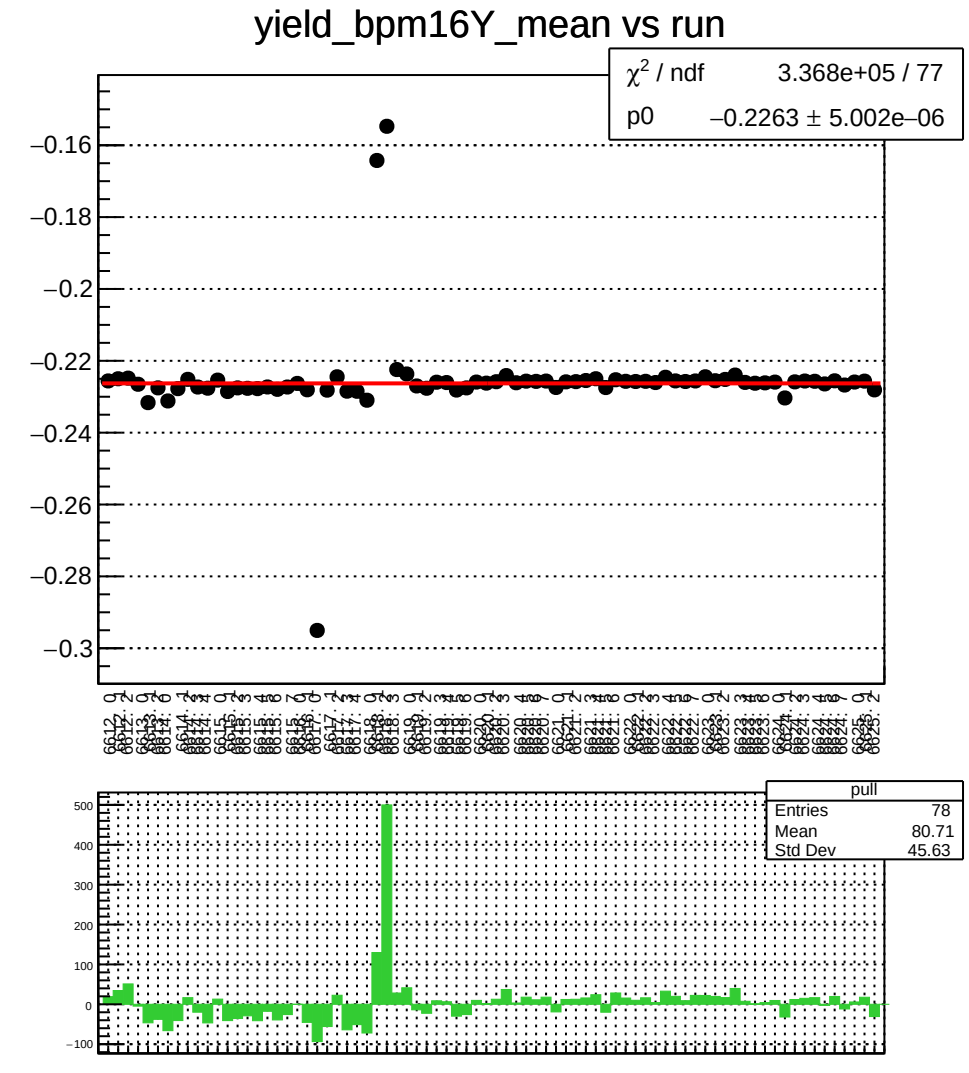

pull1D
Entries 78
Mean −0.7603
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

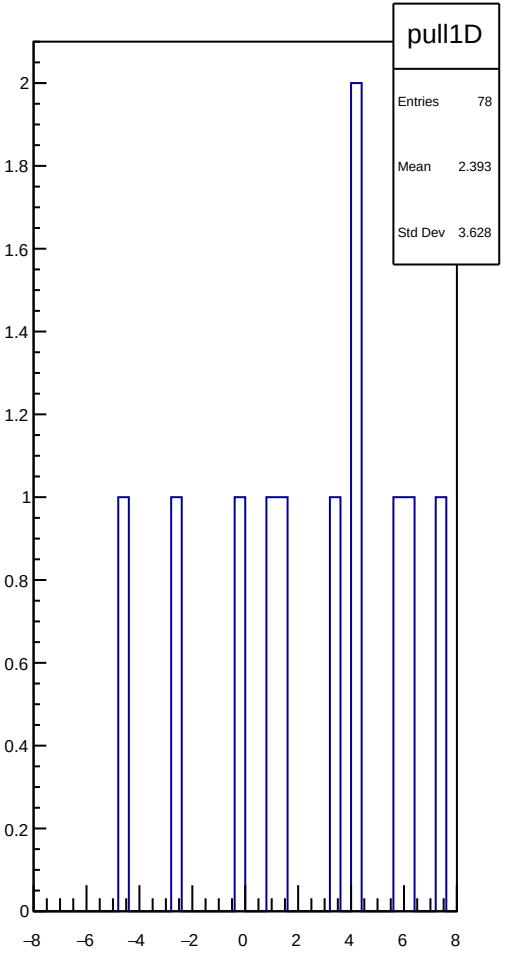

yield_bpm12Y_rms vs run
χ² / ndf 8.421e+04 / 77
p0 0.008747 ± 7.23e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

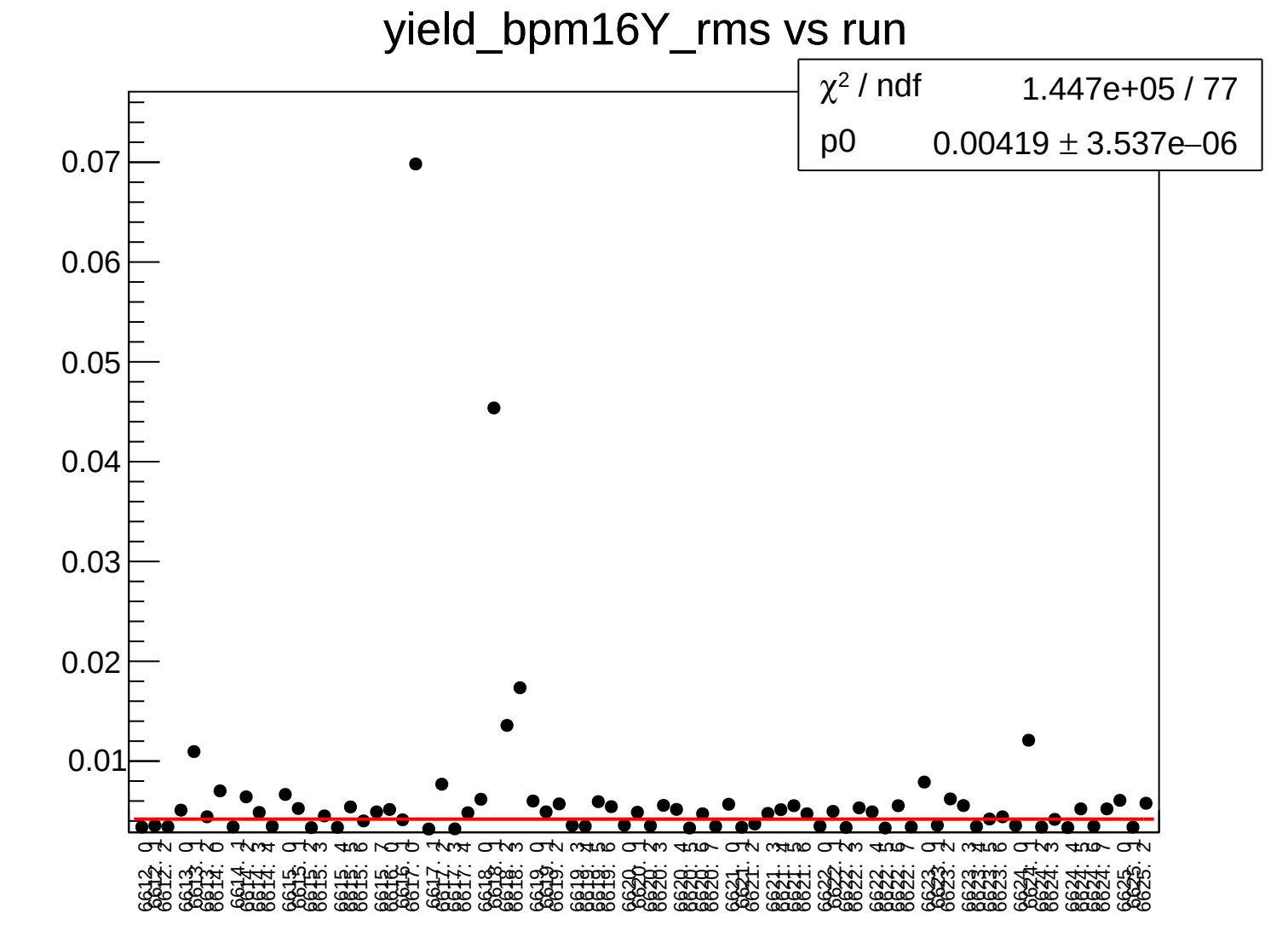

yield_bpm16X_mean vs run
χ² / ndf 1.702e+06 / 77
p0 −0.4337 ± 1.101e−05
pull
Entries 78
Mean 163.1
Std Dev 127.6

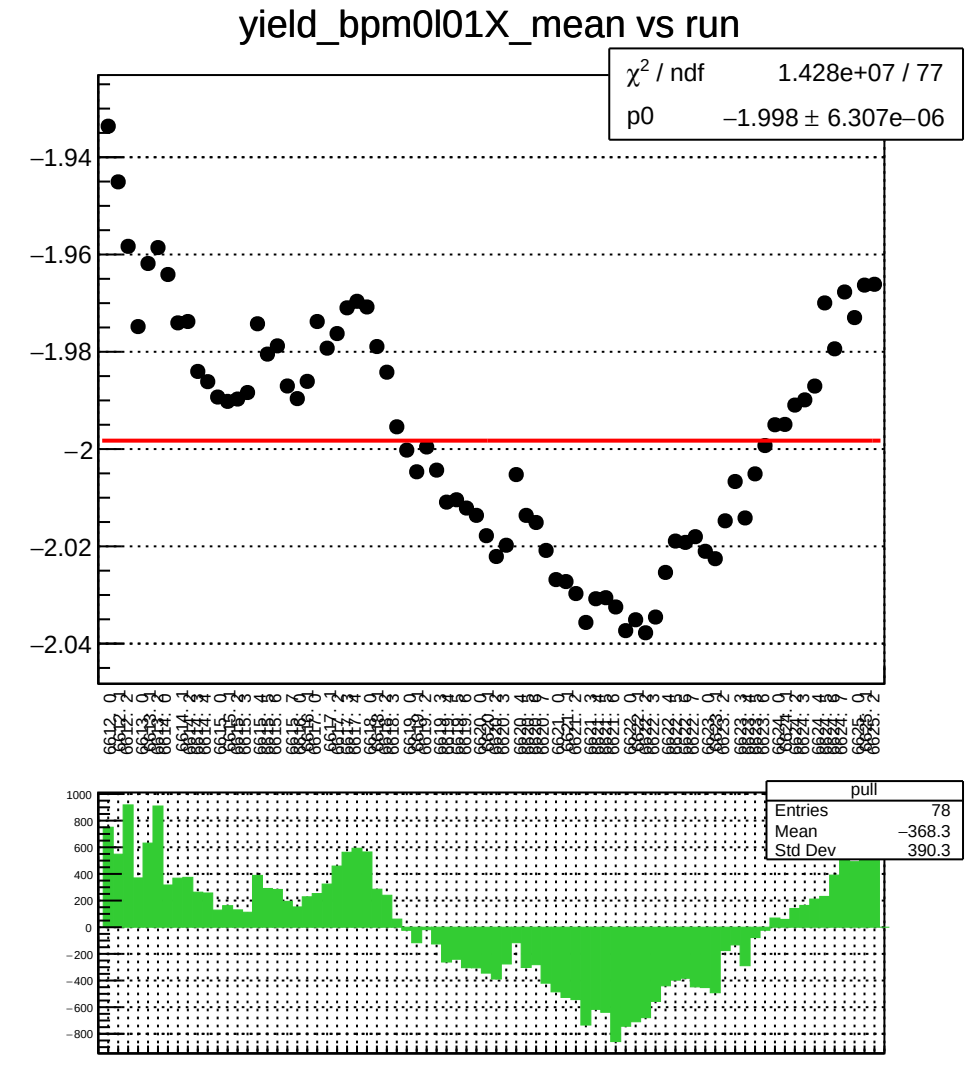

pull1D
Entries 78
Mean −0.6007
Std Dev 4.263

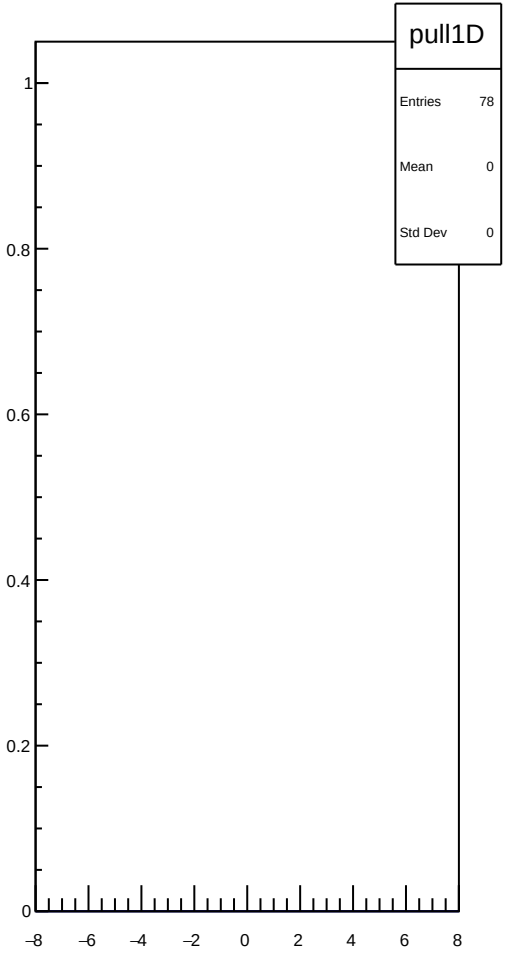

yield_bpm16X_rms vs run
χ² / ndf 3.341e+05 / 77
p0 0.008573 ± 7.782e−06
0.25
0.2
0.15
0.1
0.05

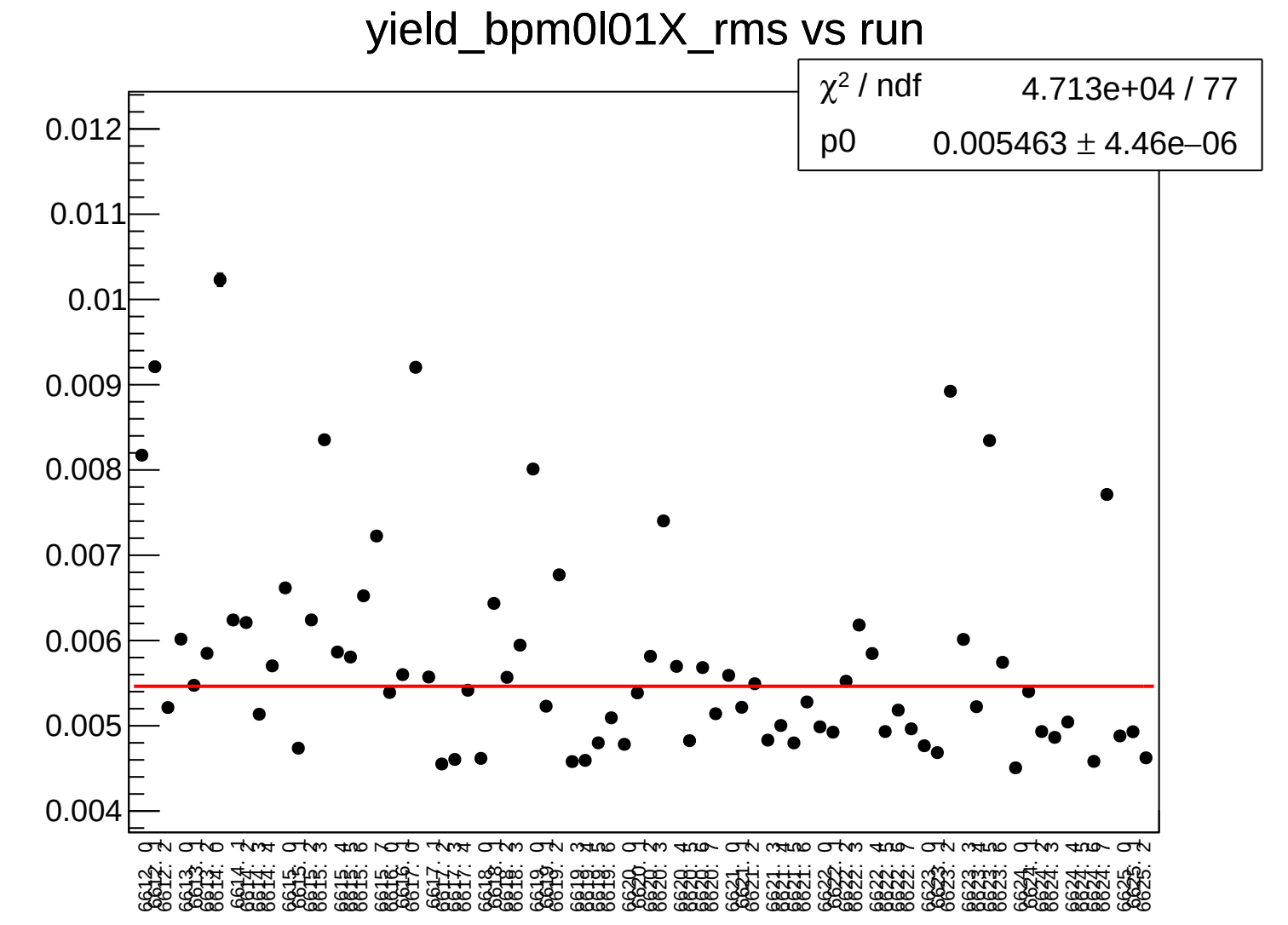

yield_bpm16Y_mean vs run
χ² / ndf 3.368e+05 / 77
p0 −0.2263 ± 5.002e−06
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
pull
Entries 78
Mean 80.71
Std Dev 45.63
500
400
300
200
100
0
−100

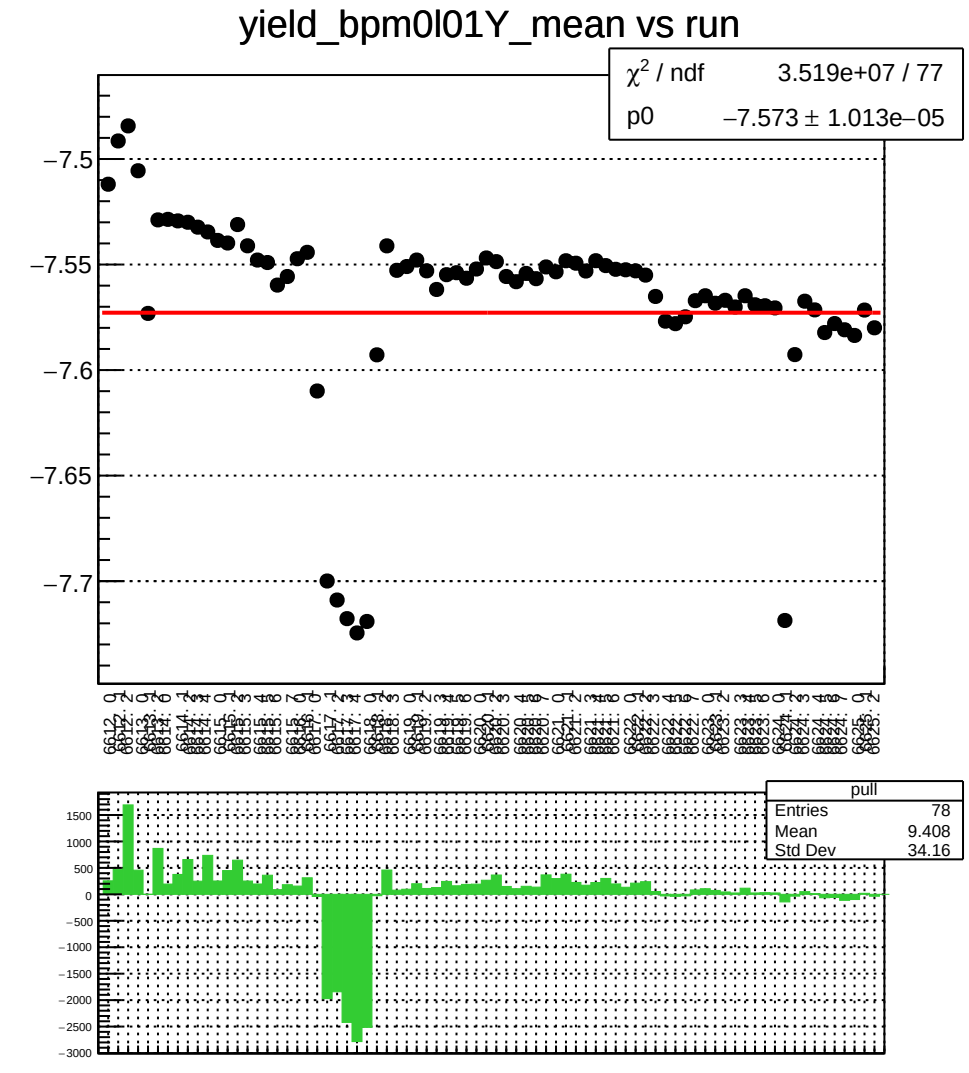

pull1D
Entries 78
Mean 2.393
Std Dev 3.628
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

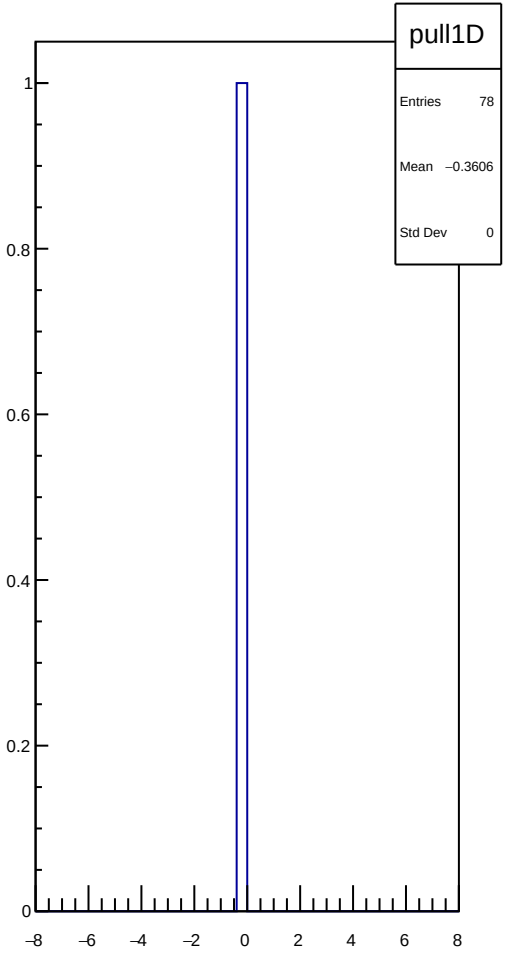

yield_bpm16Y_rms vs run
χ² / ndf 1.447e+05 / 77
p0 0.00419 ± 3.537e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

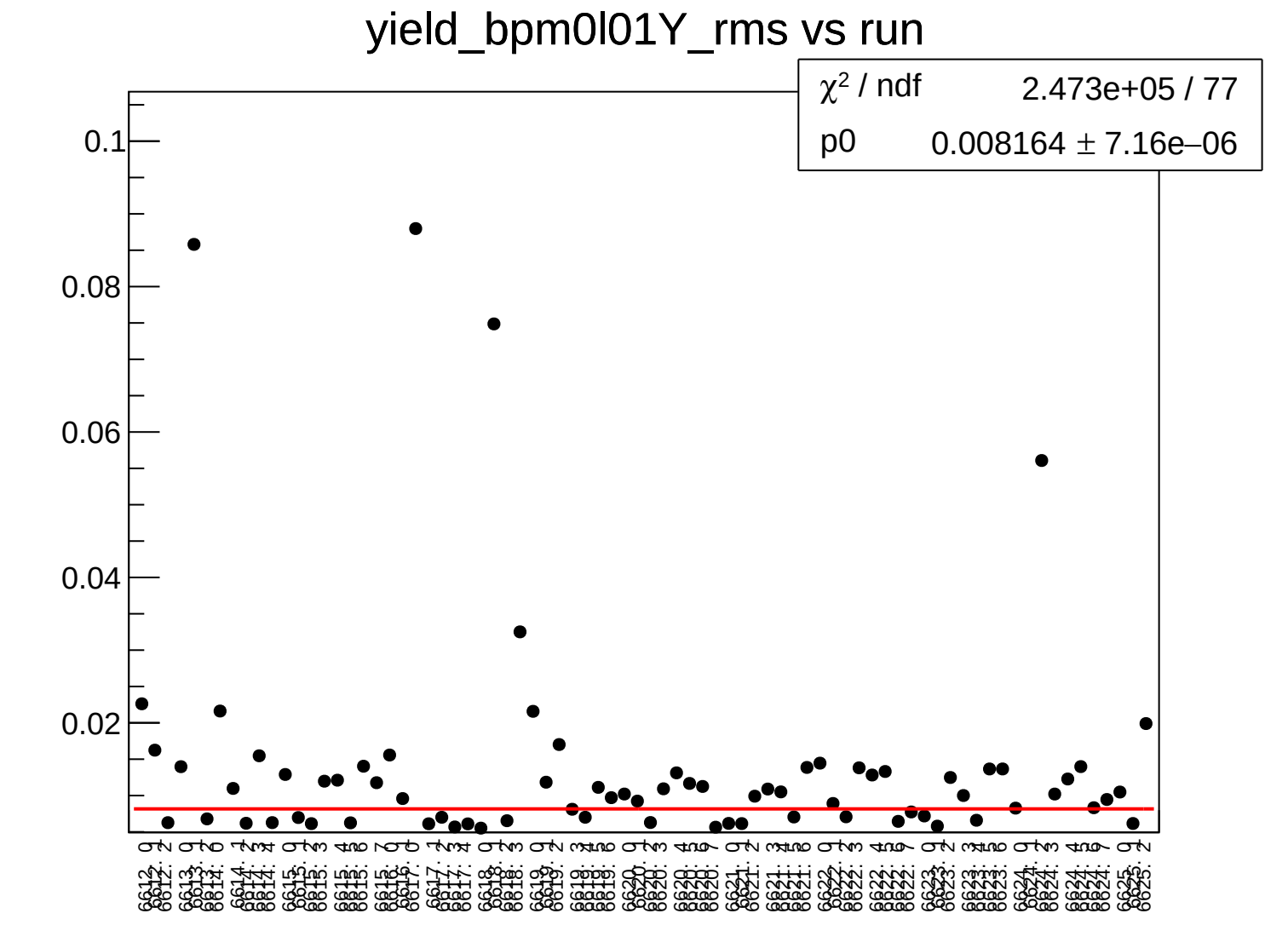

yield_bpm0l01X_mean vs run
χ² / ndf 1.428e+07 / 77
p0 −1.998 ± 6.307e−06
−1.94
−1.96
−1.98
−2
−2.02
−2.04
pull
Entries 78
Mean −368.3
Std Dev 390.3
1000
800
600
400
200
0
−200
−400
−600
−800

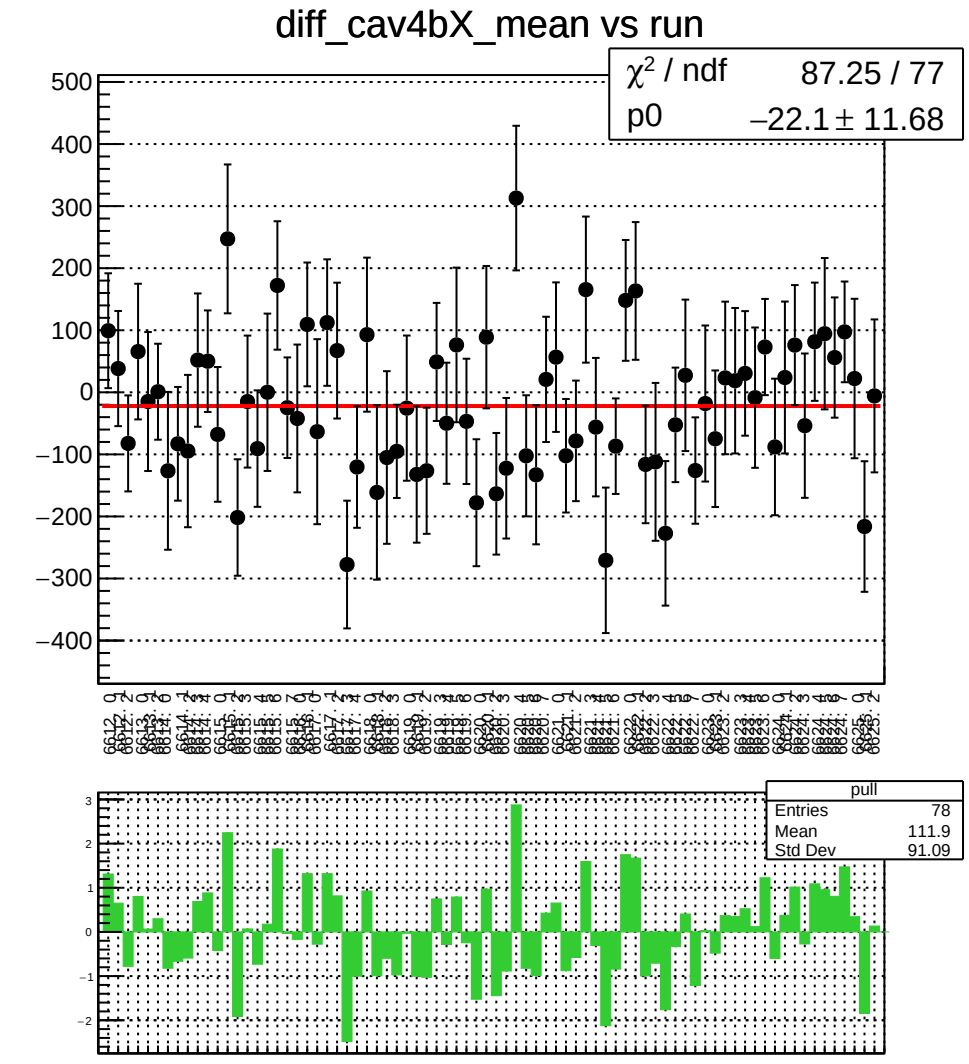

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

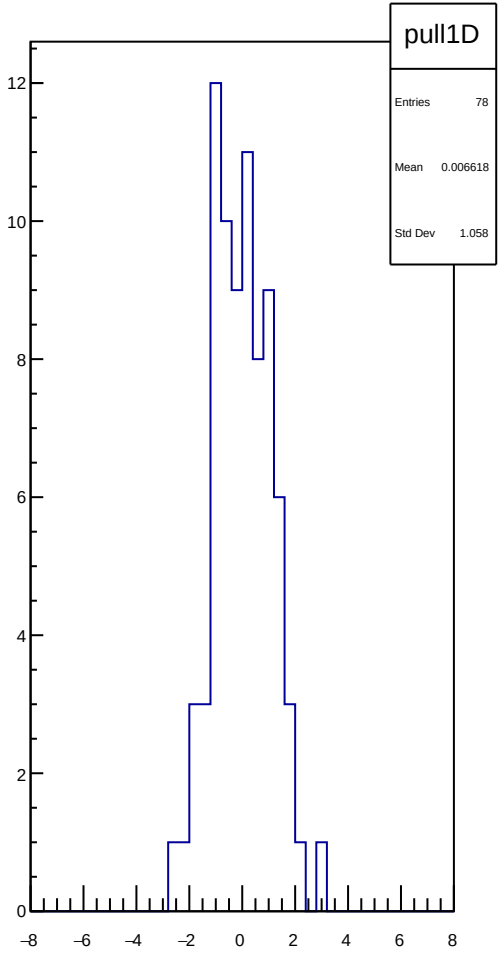

yield_bpm0l01X_rms vs run
χ² / ndf 4.713e+04 / 77
p0 0.005463 ± 4.46e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

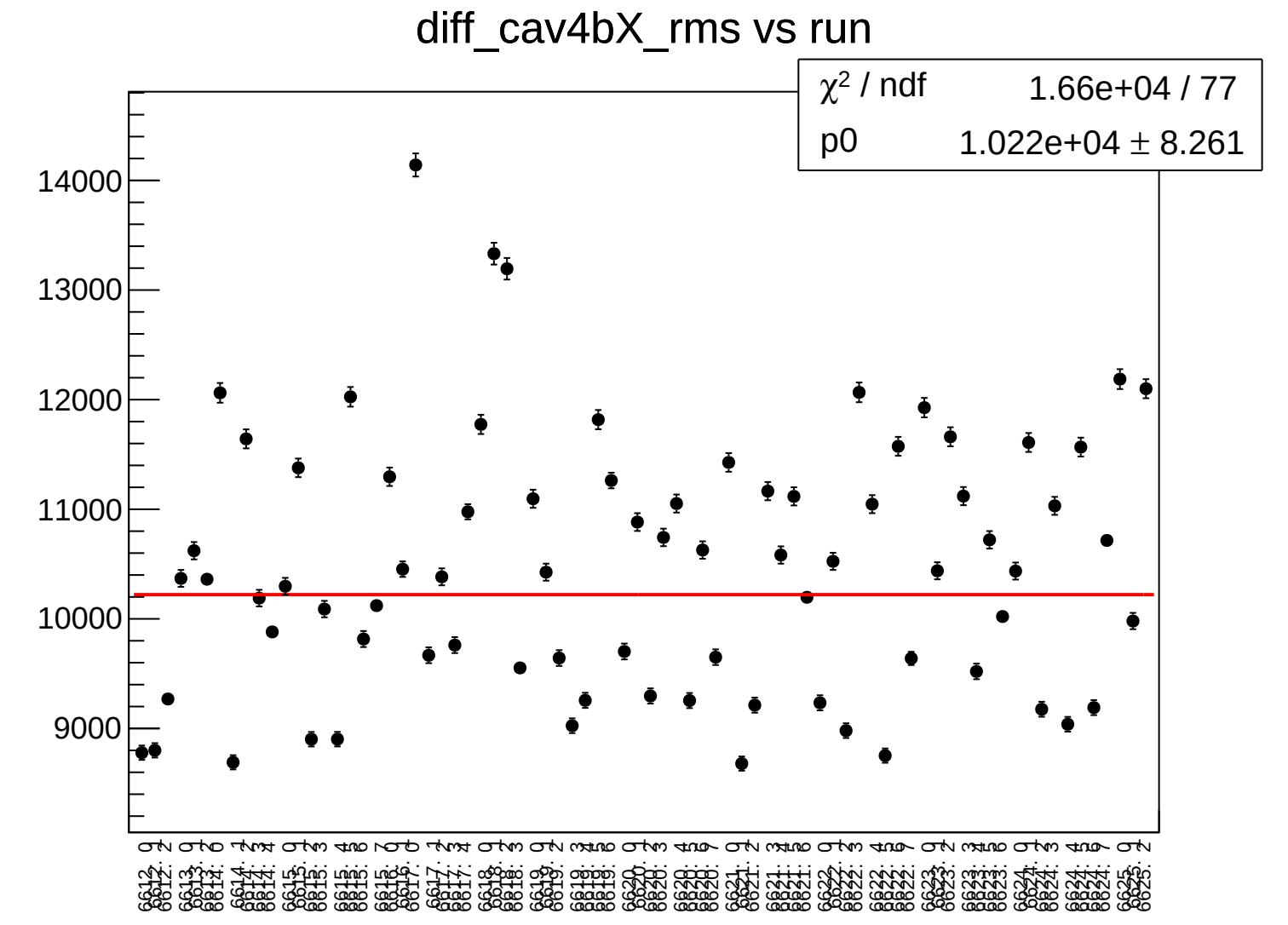

yield_bpm0l01Y_mean vs run
χ² / ndf 3.519e+07 / 77
p0 −7.573 ± 1.013e−05
−7.5
−7.55
−7.6
−7.65
−7.7
pull
Entries 78
Mean 9.408
Std Dev 34.16
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

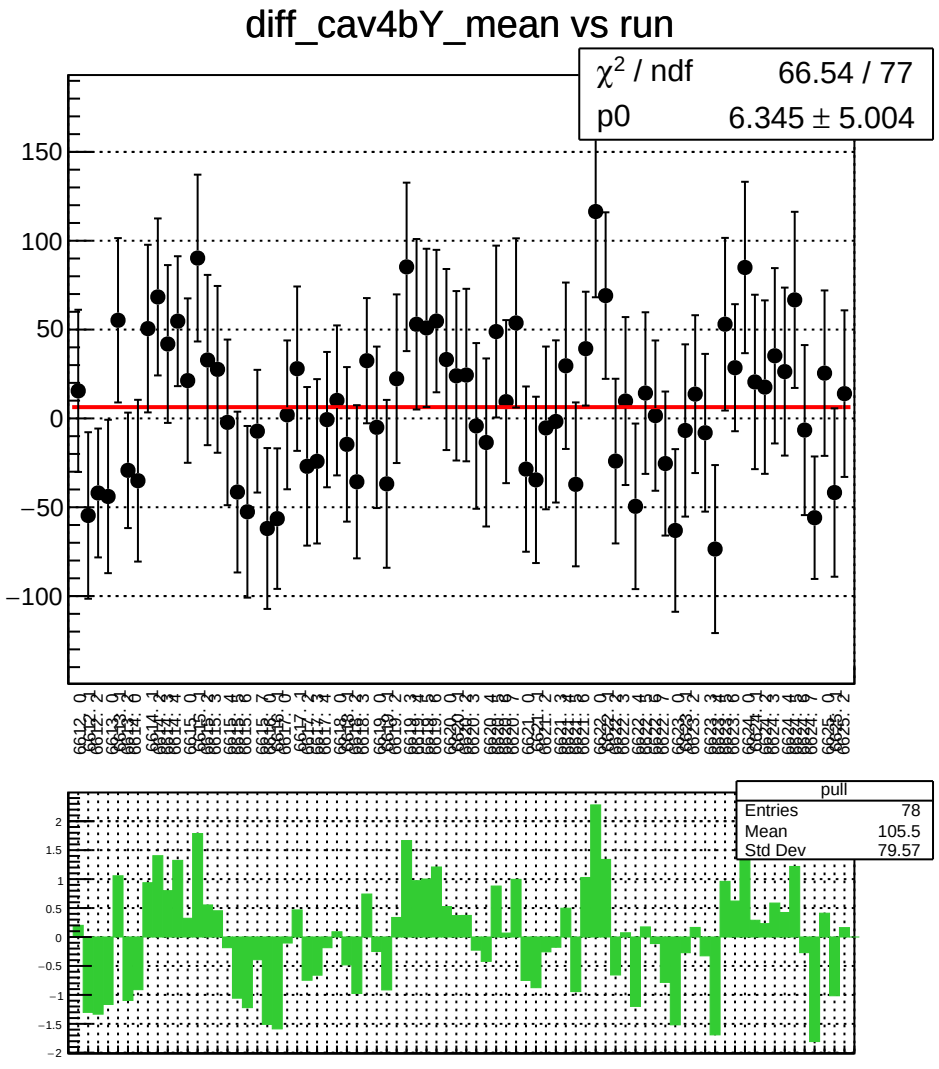

pull1D
Entries 78
Mean −0.3606
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

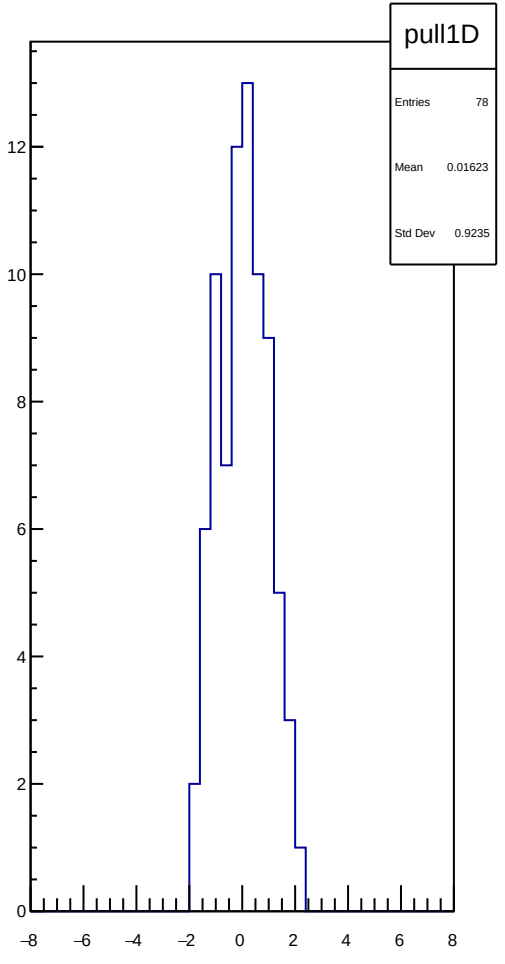

yield_bpm0l01Y_rms vs run
χ² / ndf 2.473e+05 / 77
p0 0.008164 ± 7.16e−06
0.1
0.08
0.06
0.04
0.02

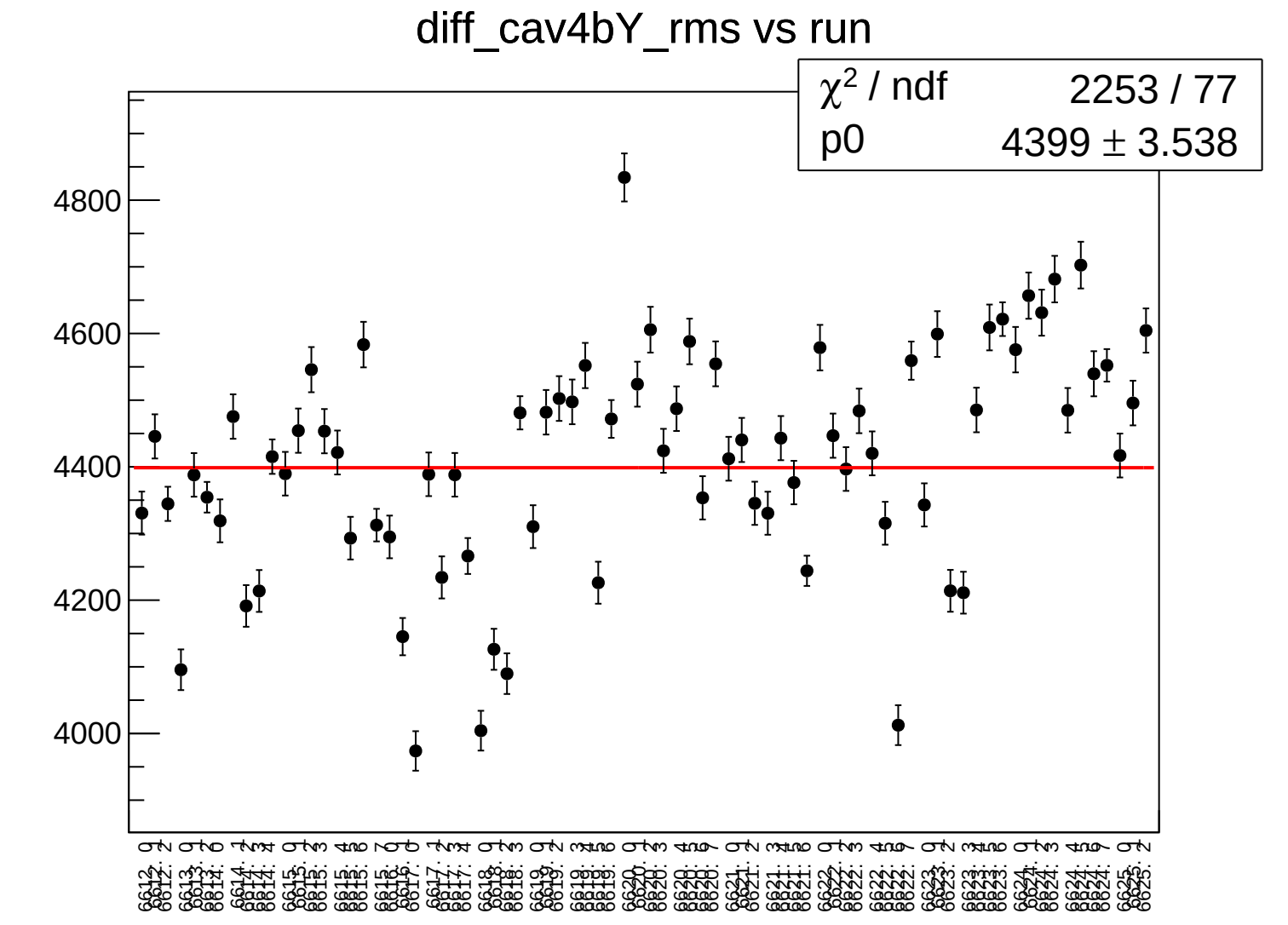

diff_cav4bX_mean vs run
χ² / ndf 87.25 / 77
p0 −22.1 ± 11.68
pull
Entries 78
Mean 111.9
Std Dev 91.09

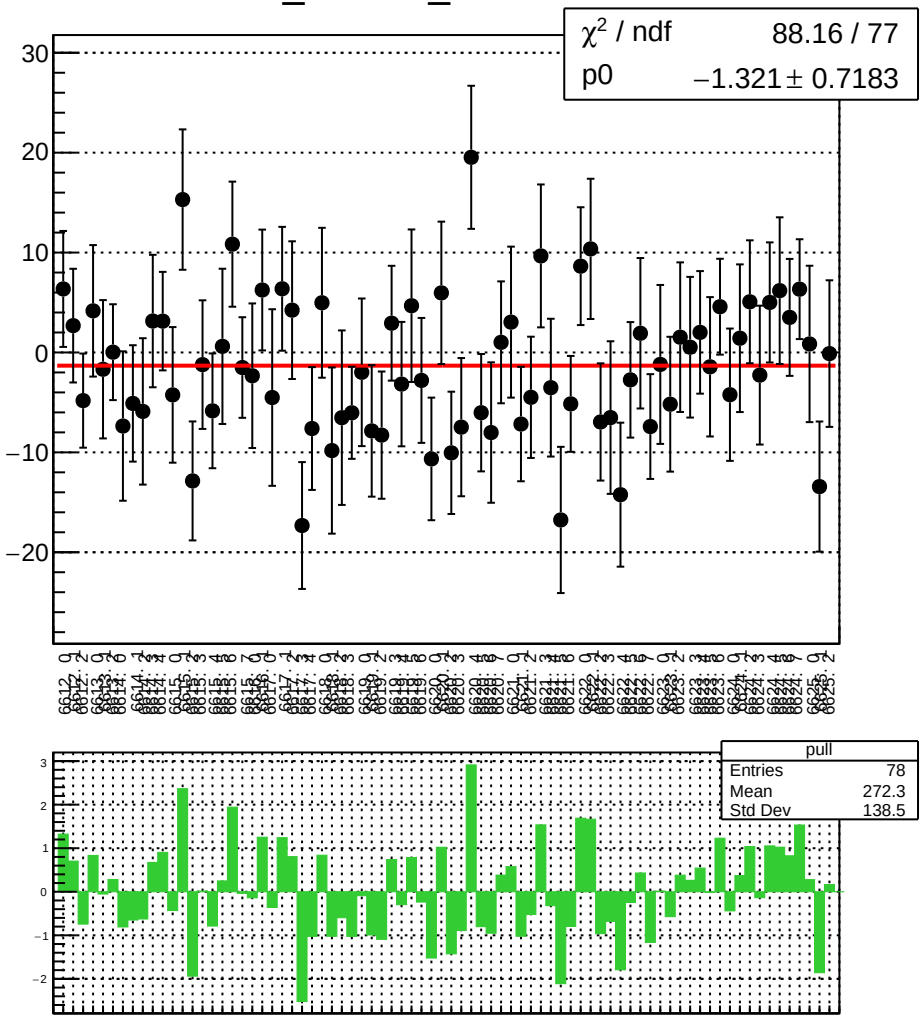

pull1D
Entries 78
Mean 0.006618
Std Dev 1.058

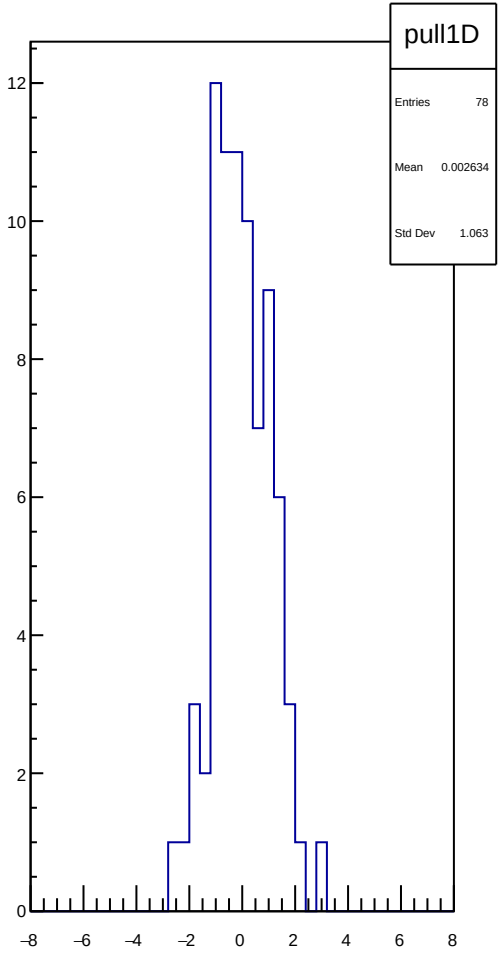

diff_cav4bX_rms vs run
χ² / ndf 1.66e+04 / 77
p0 1.022e+04 ± 8.261
14000
13000
12000
11000
10000
9000

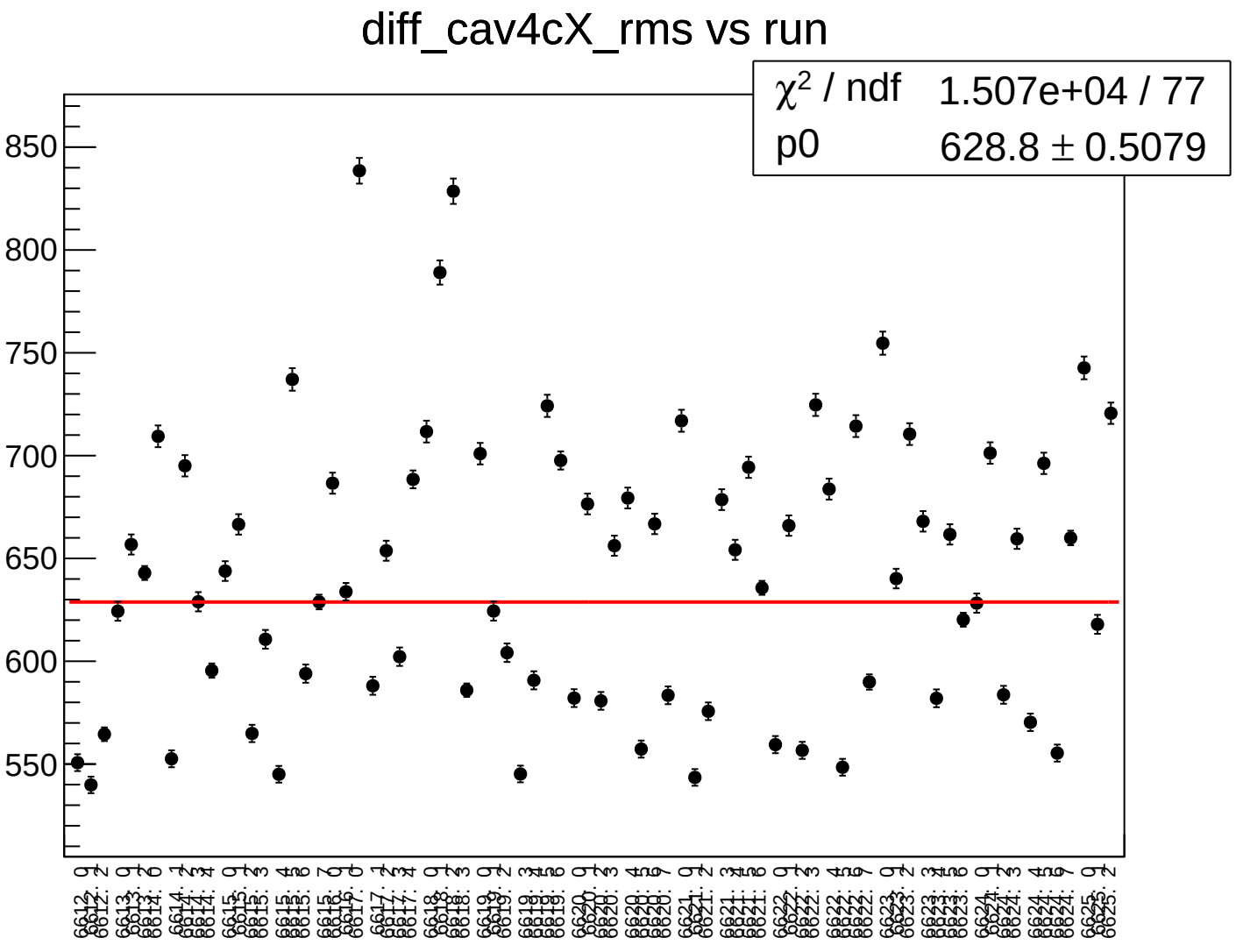

diff_cav4bY_mean vs run
χ² / ndf 66.54 / 77
p0 6.345 ± 5.004
150
100
50
0
−50
−100
pull
Entries 78
Mean 105.5
Std Dev 79.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

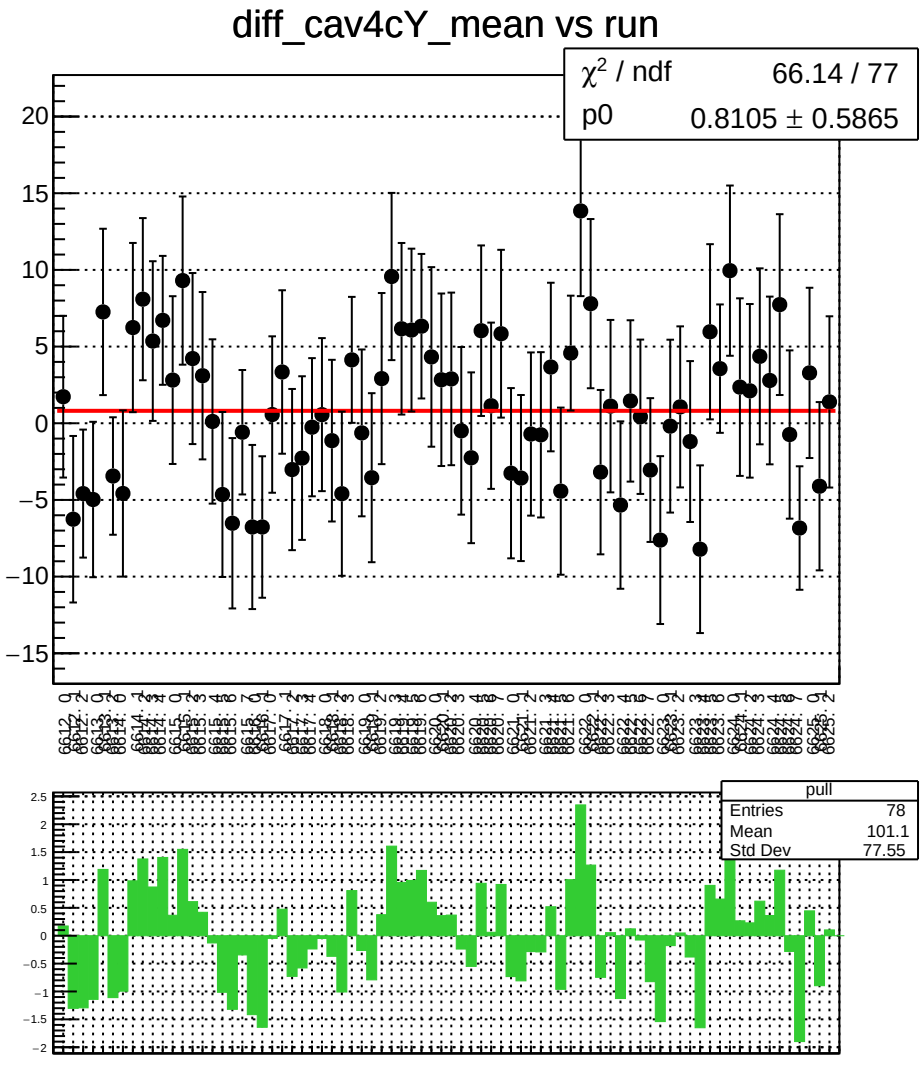

pull1D
Entries 78
Mean 0.01623
Std Dev 0.9235
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

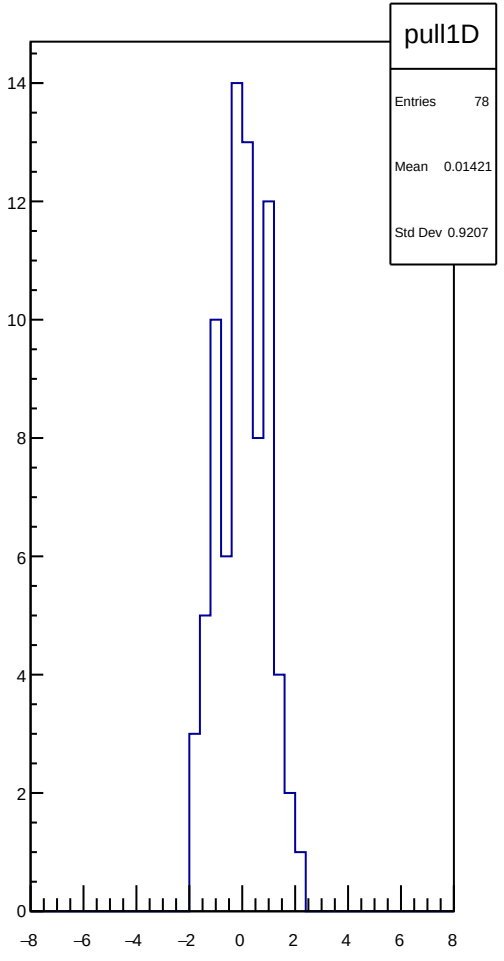

diff_cav4bY_rms vs run
χ² / ndf 2253 / 77
p0 4399 ± 3.538
4800
4600
4400
4200
4000

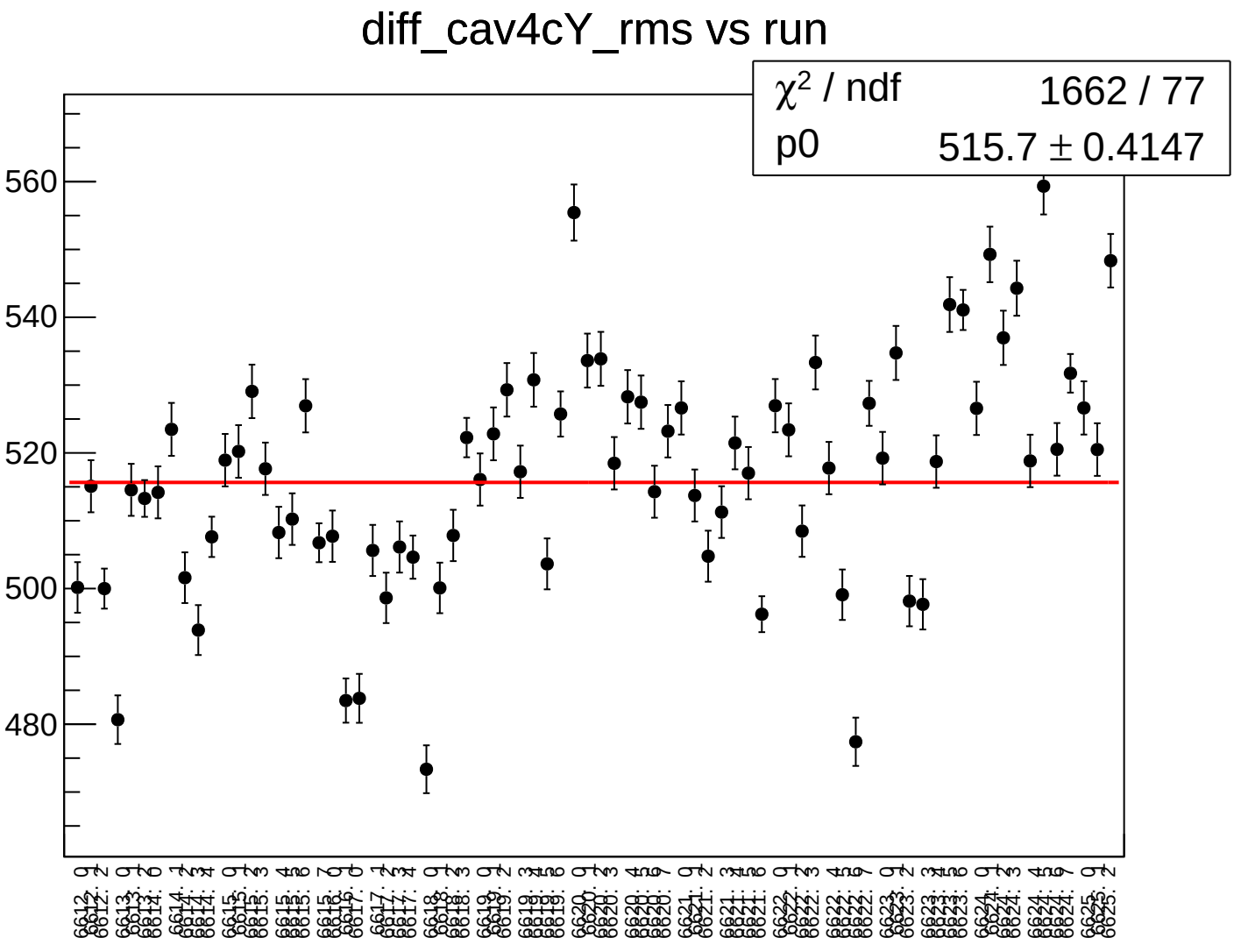

diff_cav4cX_mean vs run
χ² / ndf 88.16 / 77
p0 −1.321 ± 0.7183
pull
Entries 78
Mean 272.3
Std Dev 138.5

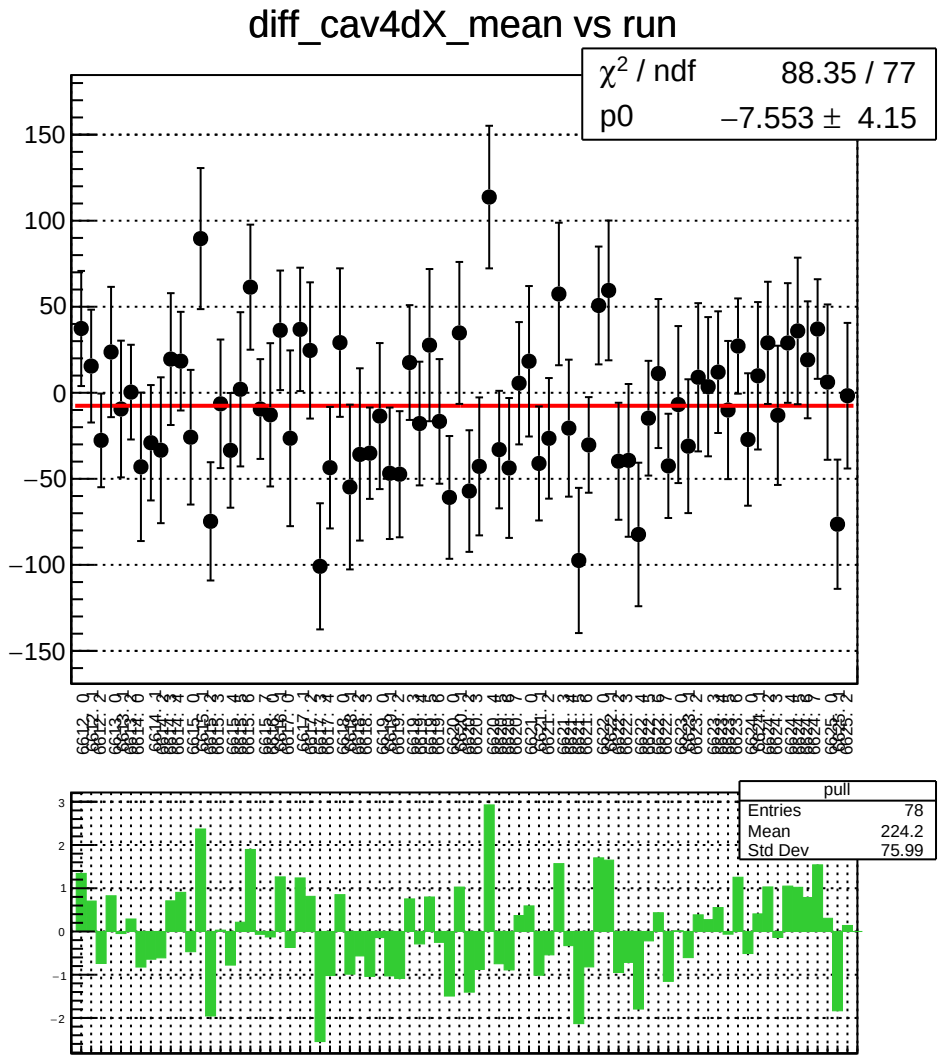

pull1D
Entries 78
Mean 0.002634
Std Dev 1.063

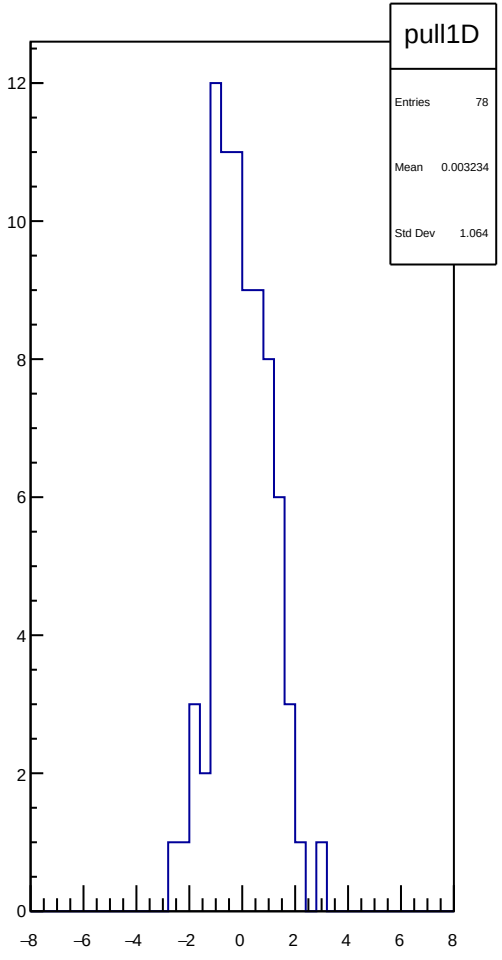

diff_cav4cX_rms vs run
χ² / ndf 1.507e+04 / 77
p0 628.8 ± 0.5079
850
800
750
700
650
600
550

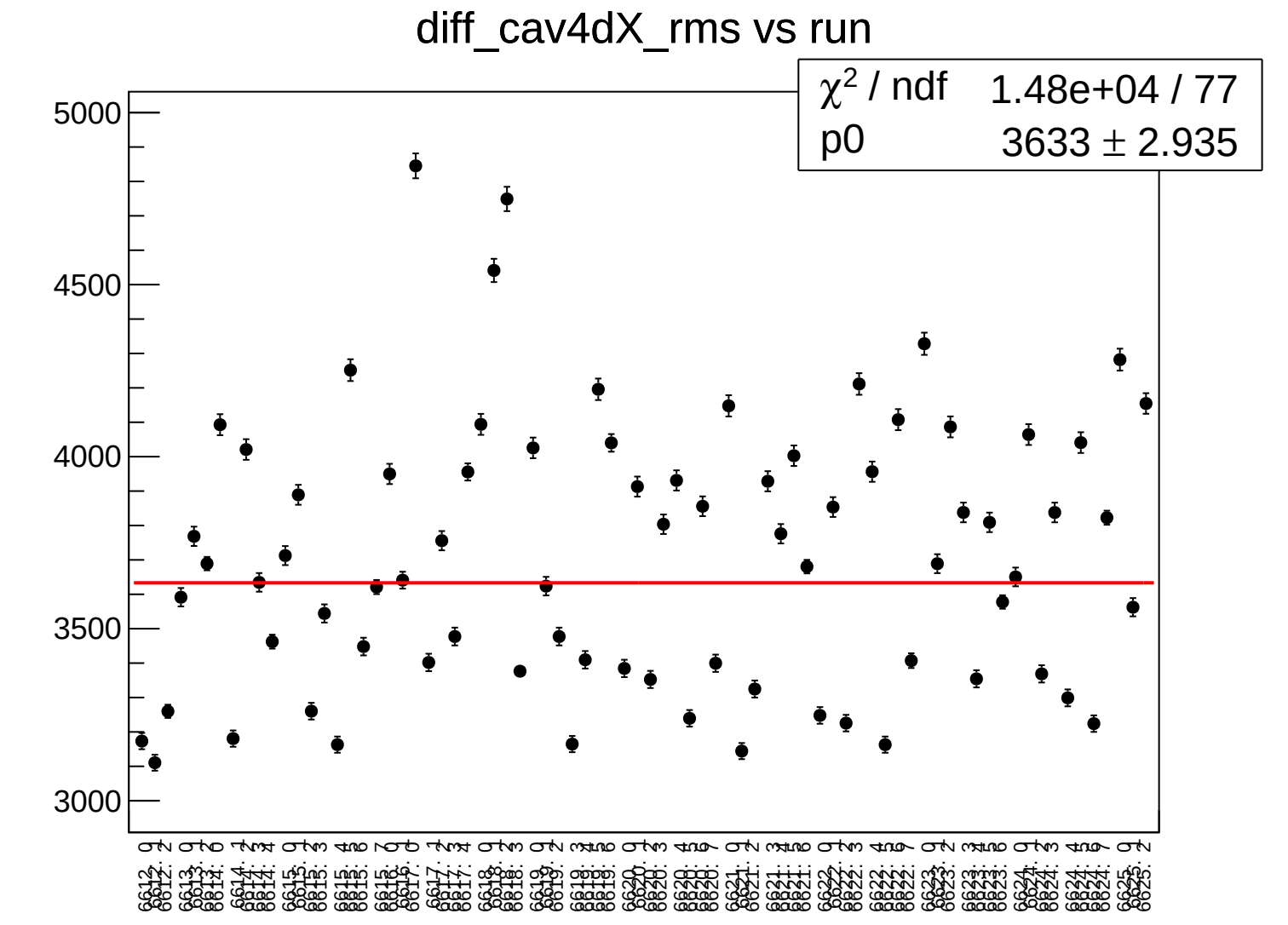

diff_cav4cY_mean vs run
χ² / ndf 66.14 / 77
p0 0.8105 ± 0.5865
pull
Entries 78
Mean 101.1
Std Dev 77.55

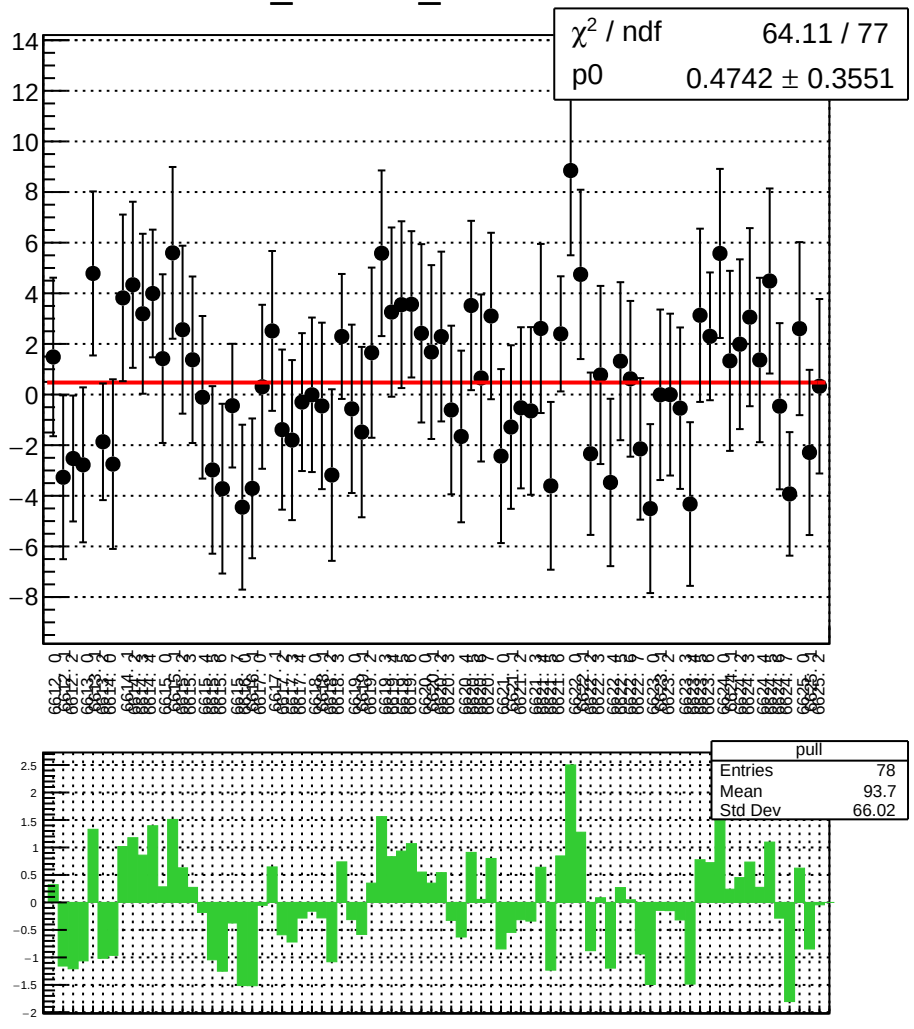

pull1D
Entries 78
Mean 0.01421
Std Dev 0.9207

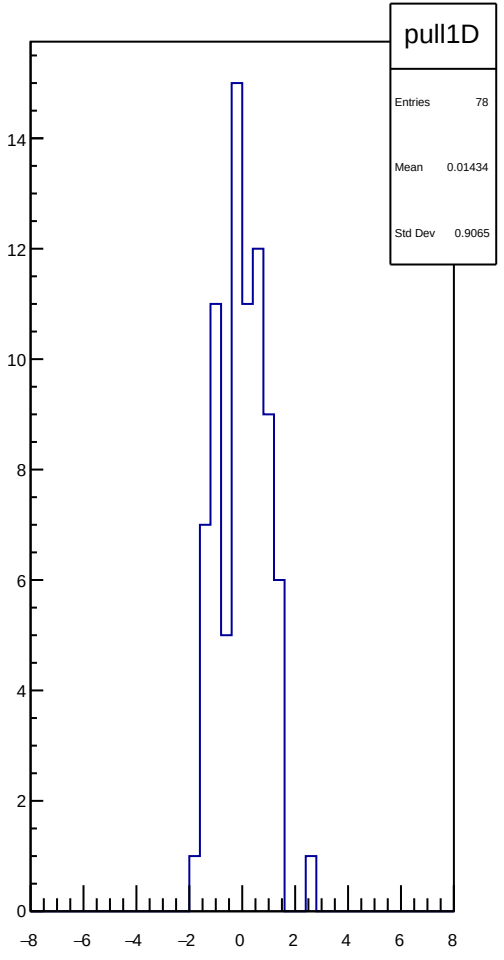

diff_cav4cY_rms vs run
χ² / ndf 1662 / 77
p0 515.7 ± 0.4147
560
540
520
500
480

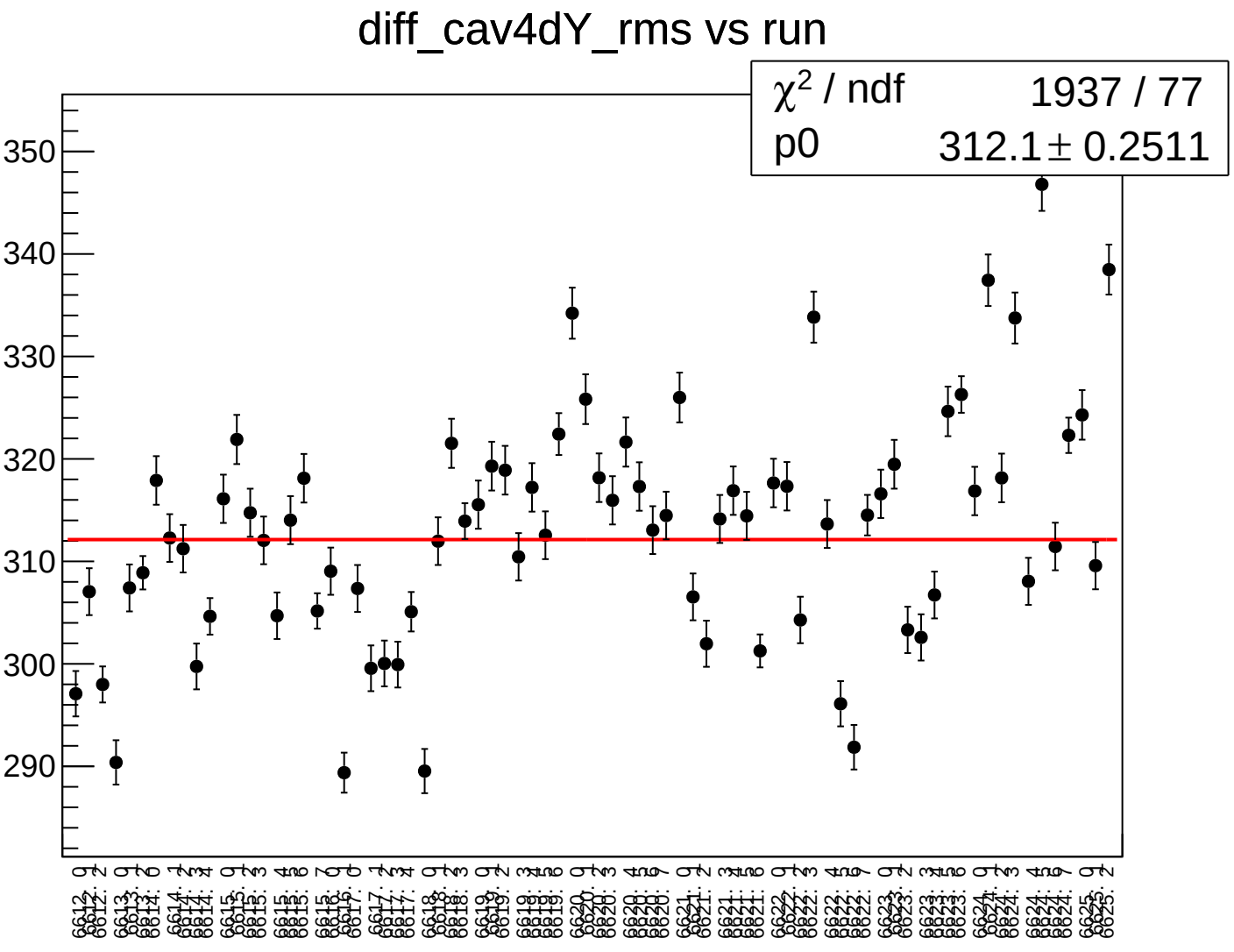

diff_cav4dX_mean vs run
χ² / ndf 88.35 / 77
p0 −7.553 ± 4.15
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 224.2
Std Dev 75.99
3
2
1
0
−1
−2

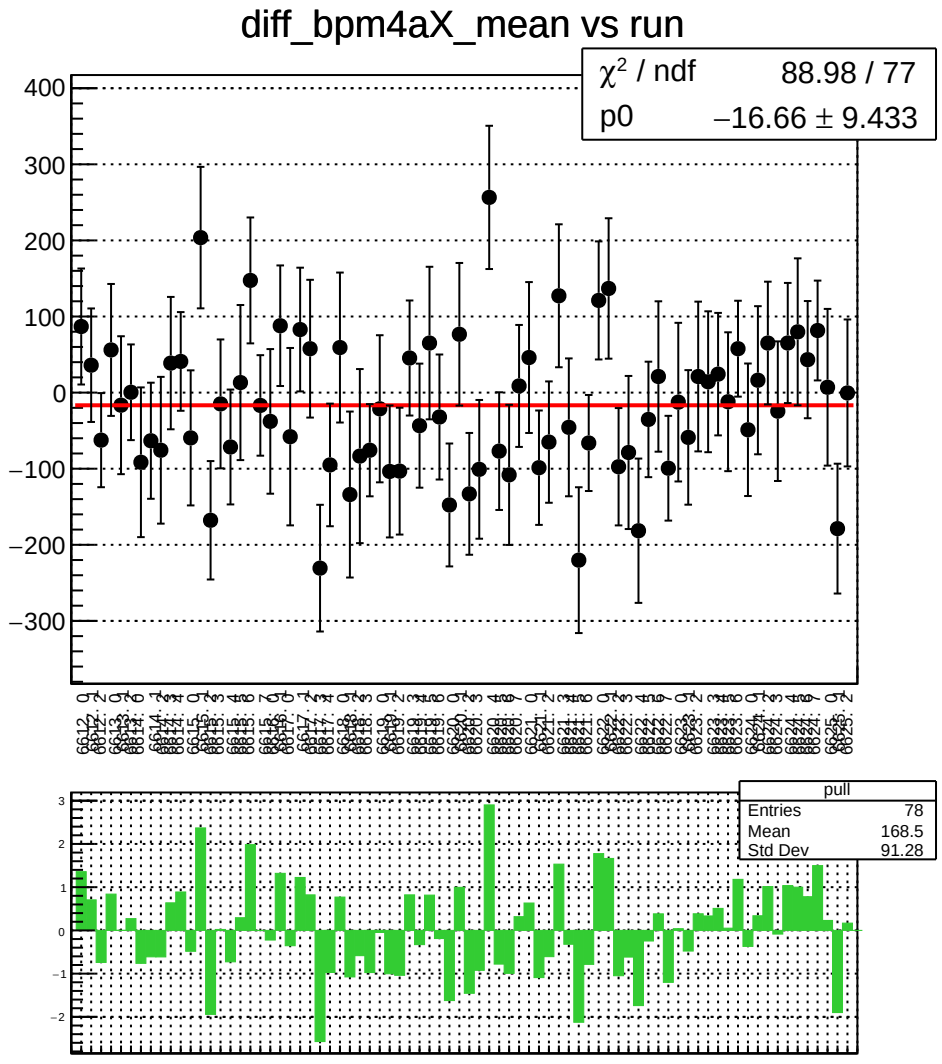

pull1D
Entries 78
Mean 0.003234
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

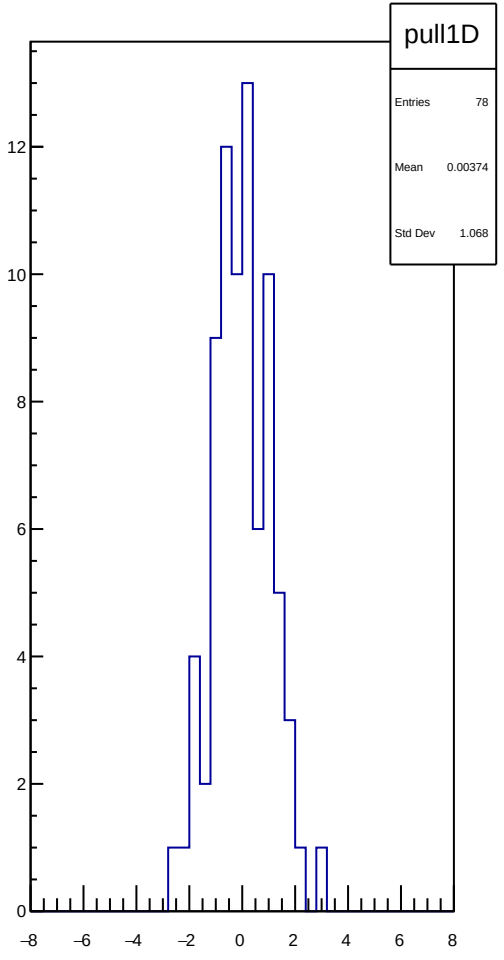

diff_cav4dX_rms vs run
χ² / ndf 1.48e+04 / 77
p0 3633 ± 2.935
5000
4500
4000
3500
3000

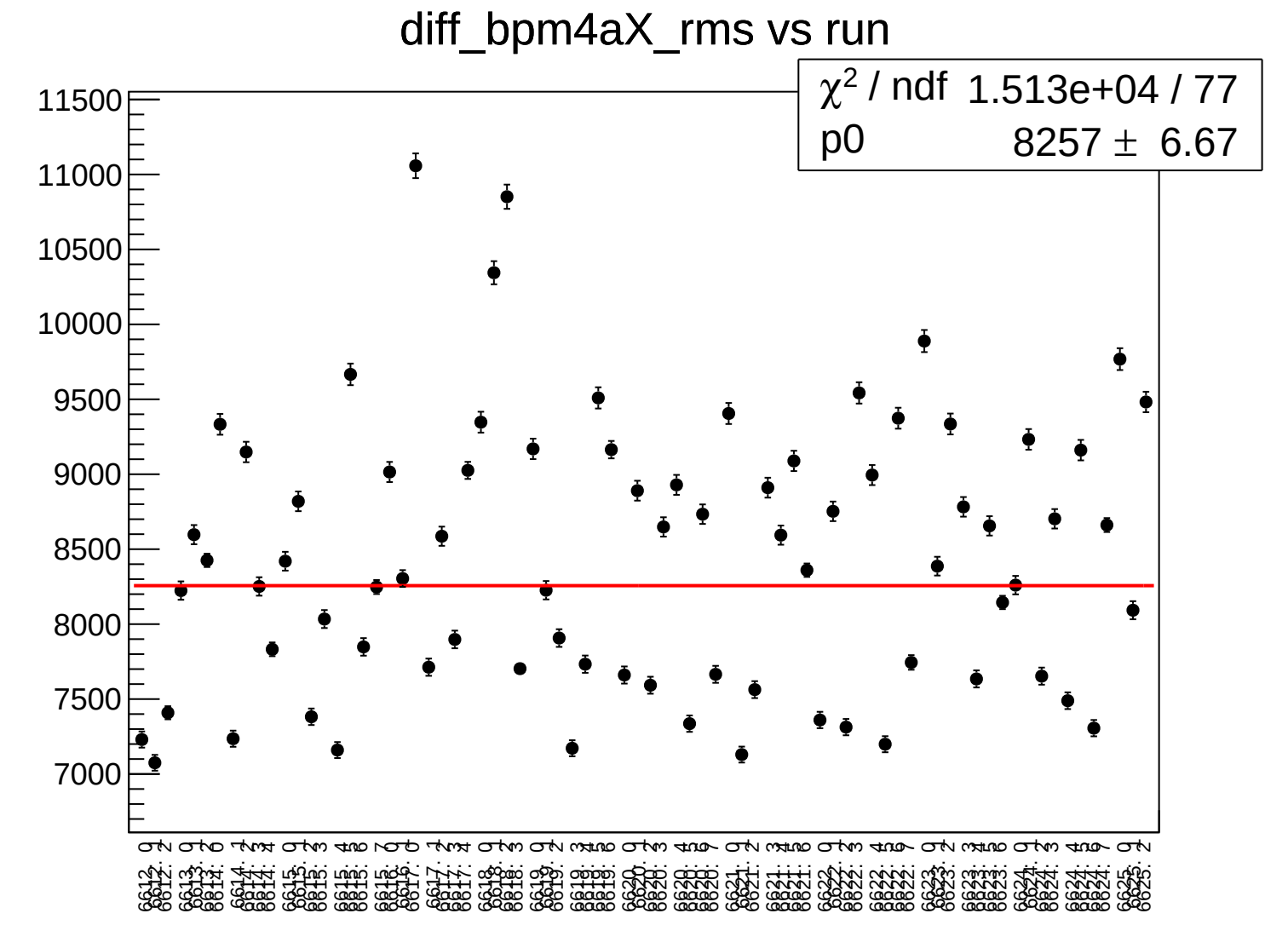

diff_cav4dY_mean vs run
χ² / ndf 64.11 / 77
p0 0.4742 ± 0.3551
pull
Entries 78
Mean 93.7
Std Dev 66.02

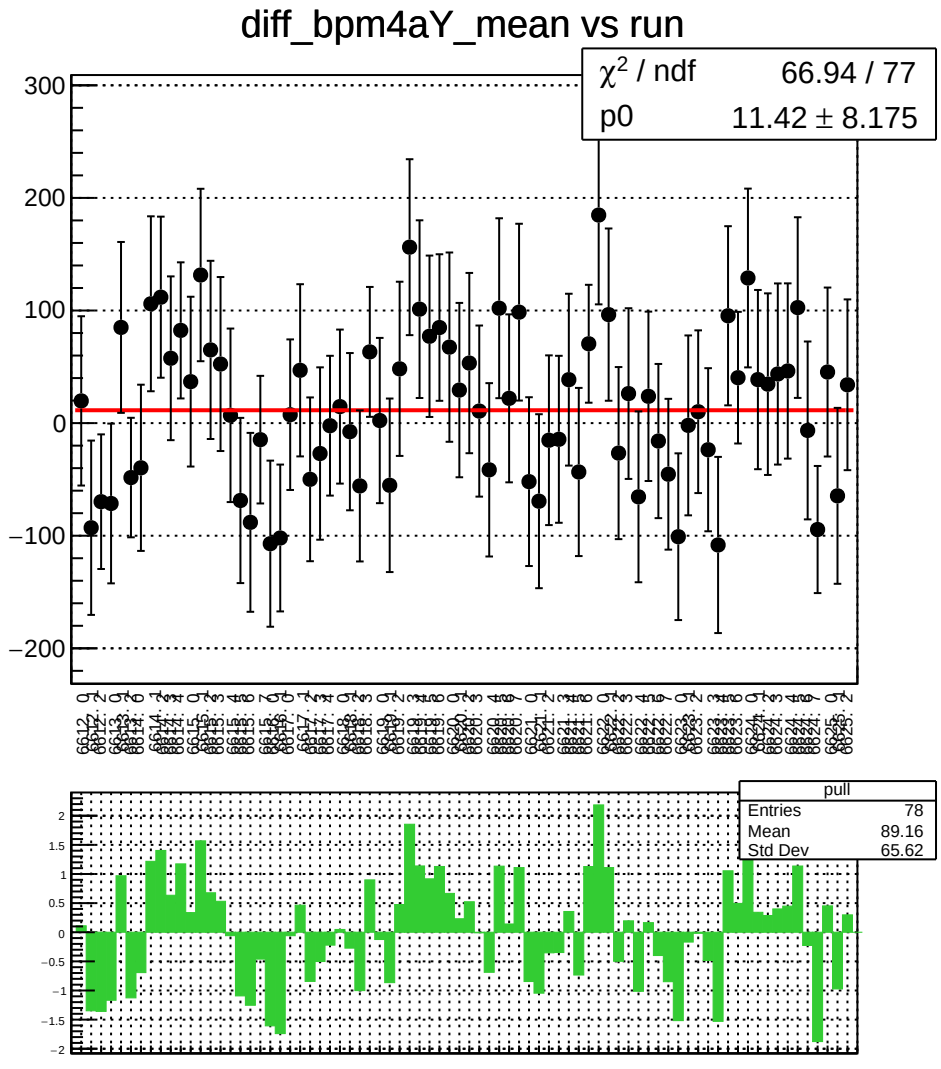

pull1D
Entries 78
Mean 0.01434
Std Dev 0.9065

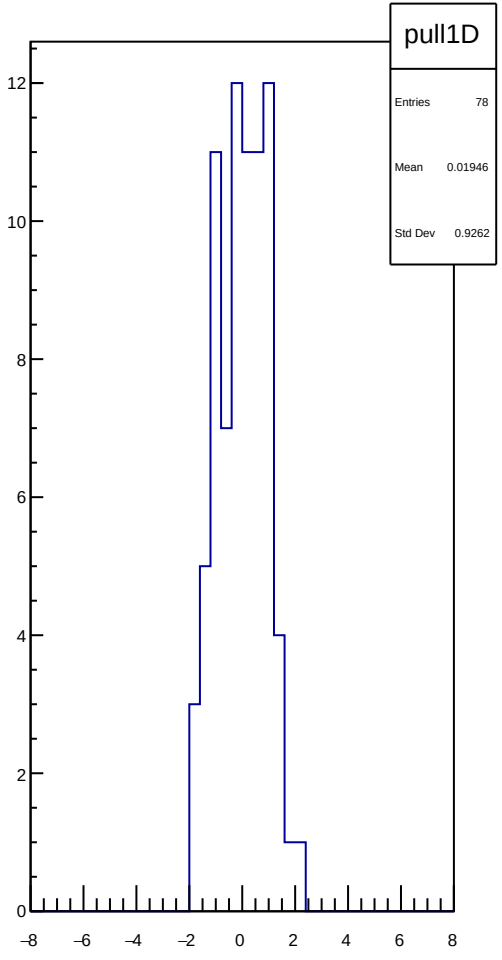

diff_cav4dY_rms vs run
χ² / ndf 1937 / 77
p0 312.1 ± 0.2511
350
340
330
320
310
300
290

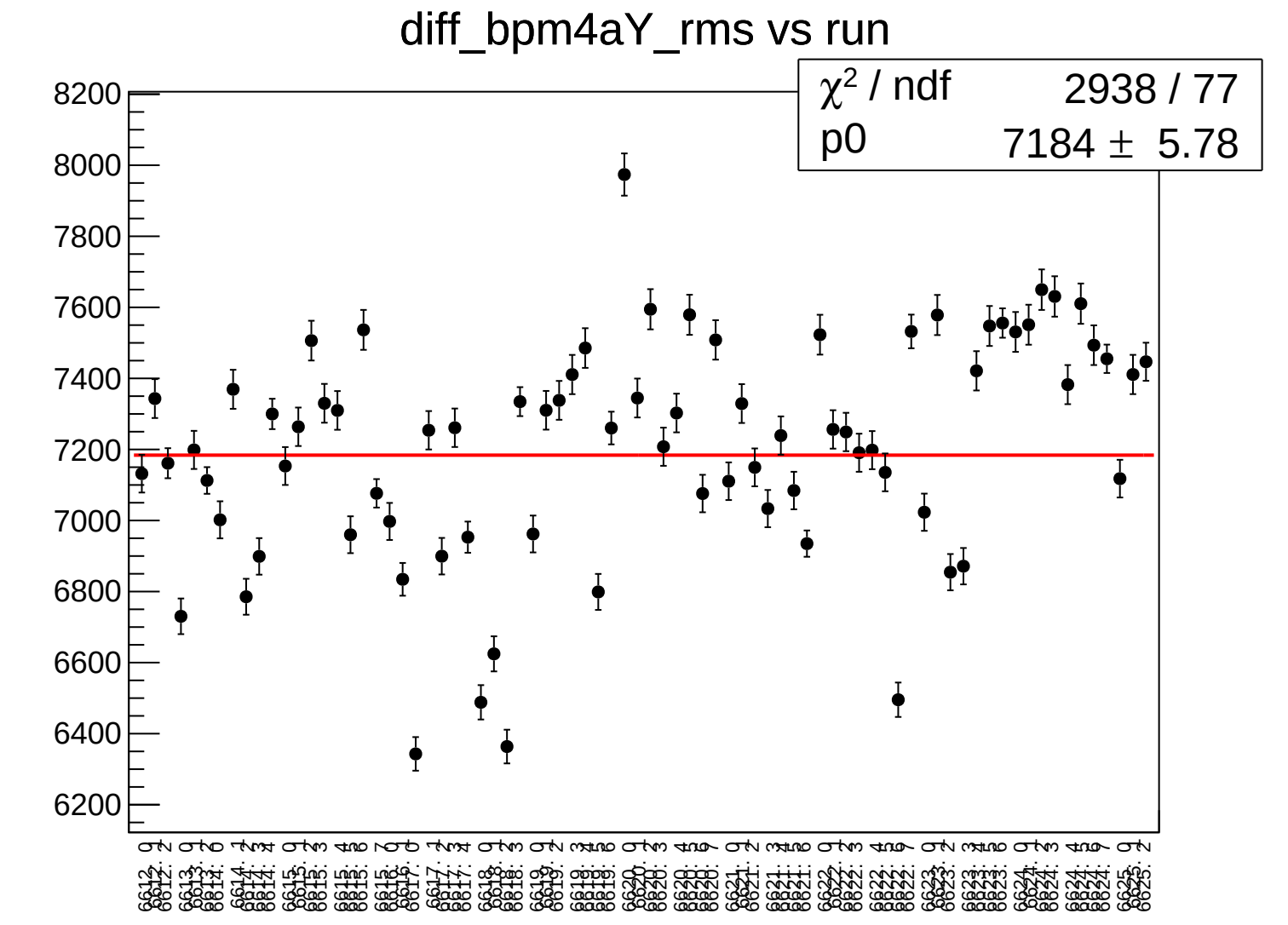

diff_bpm4aX_mean vs run
χ² / ndf 88.98 / 77
p0 −16.66 ± 9.433
pull
Entries 78
Mean 168.5
Std Dev 91.28

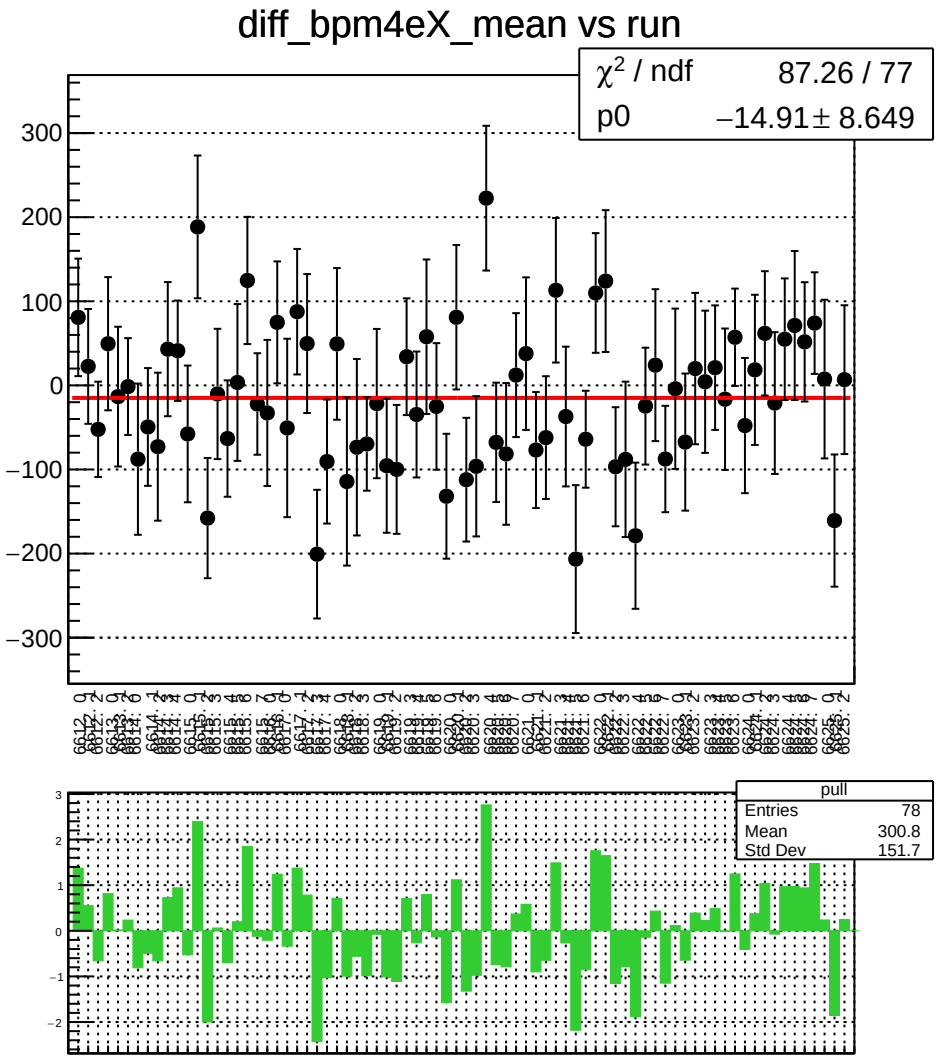

pull1D
Entries 78
Mean 0.00374
Std Dev 1.068

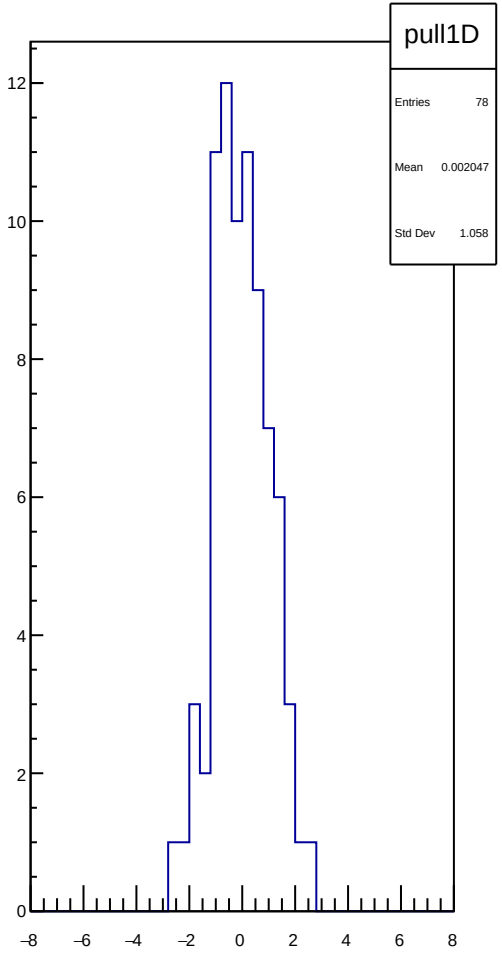

diff_bpm4aX_rms vs run
χ² / ndf 1.513e+04 / 77
p0 8257 ± 6.67
11500
11000
10500
10000
9500
9000
8500
8000
7500
7000

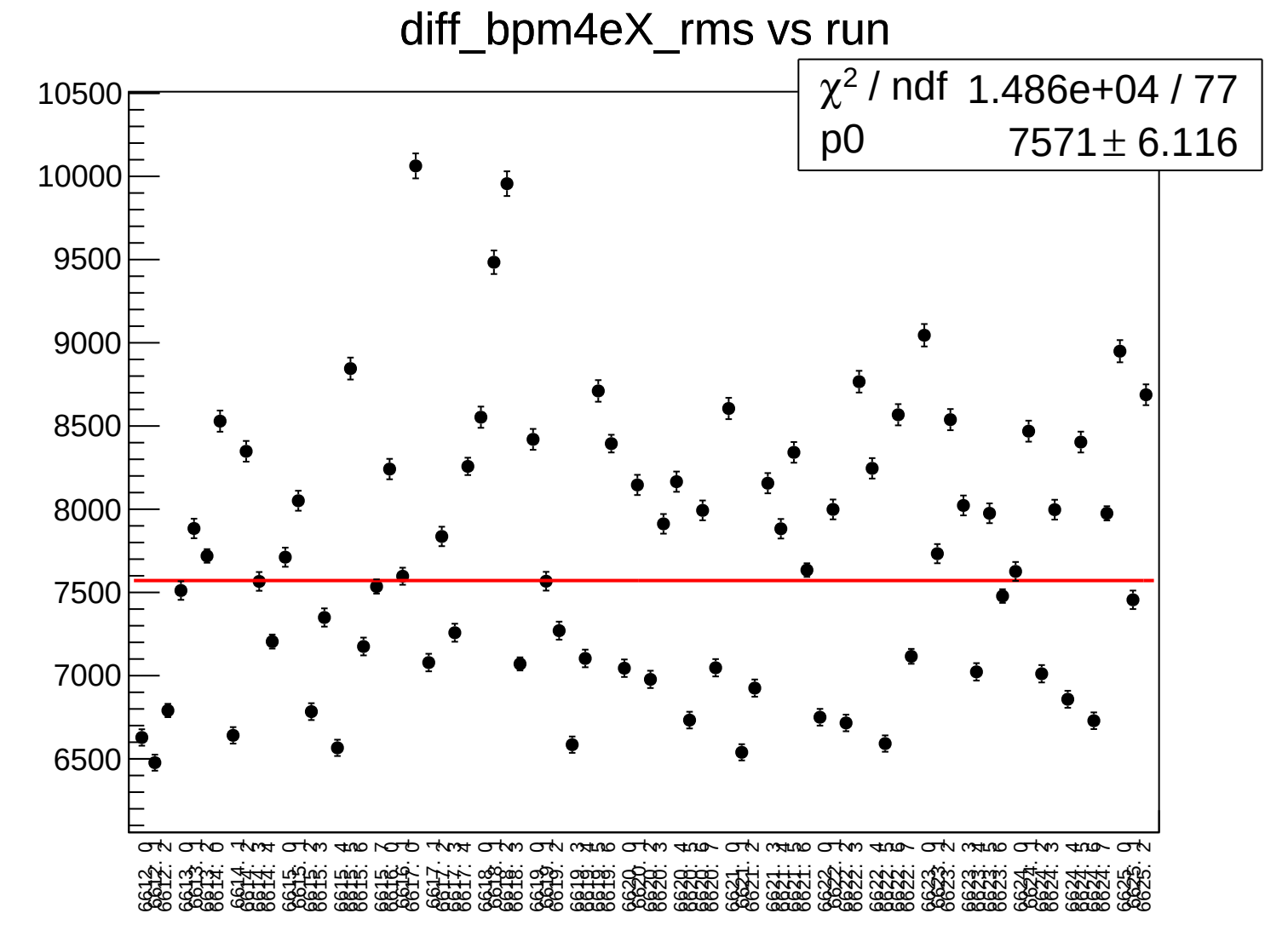

diff_bpm4aY_mean vs run
χ^2 / ndf 66.94 / 77
p0 11.42 ± 8.175
pull
Entries 78
Mean 89.16
Std Dev 65.62

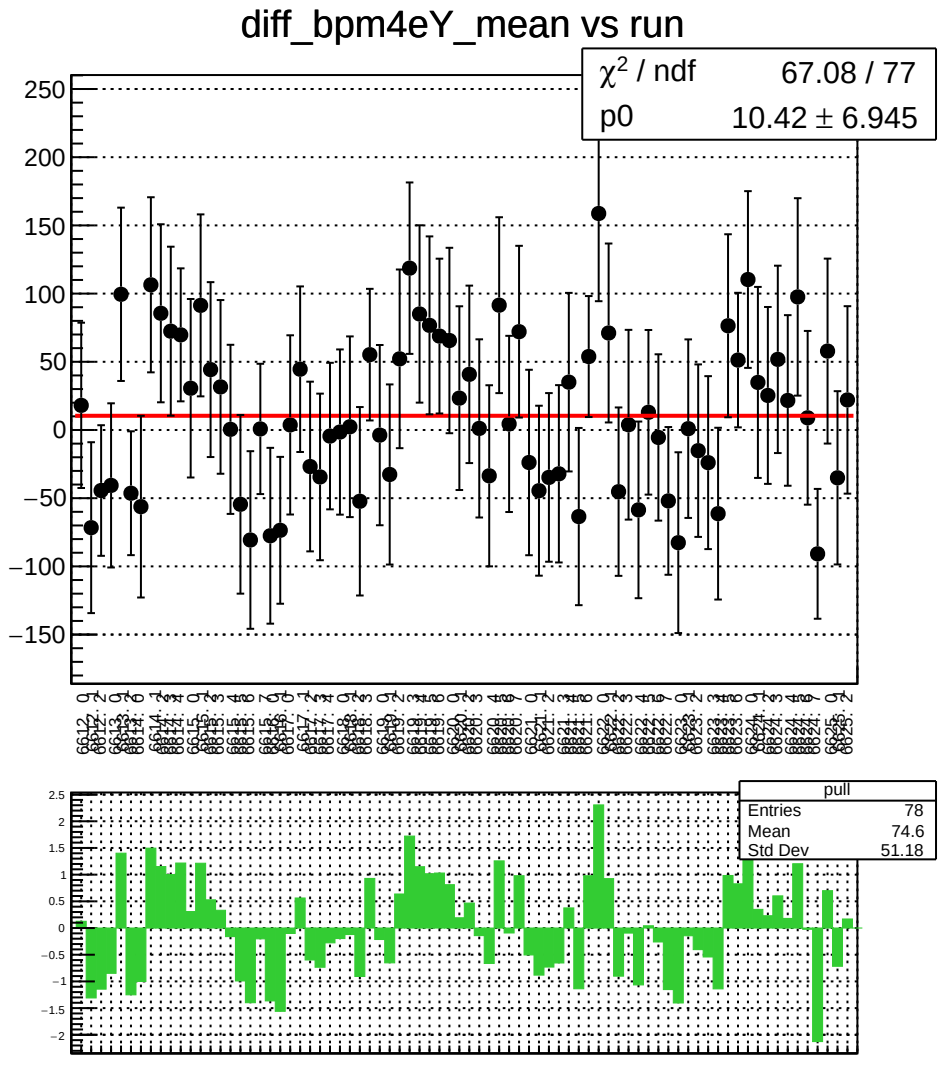

pull1D
Entries 78
Mean 0.01946
Std Dev 0.9262

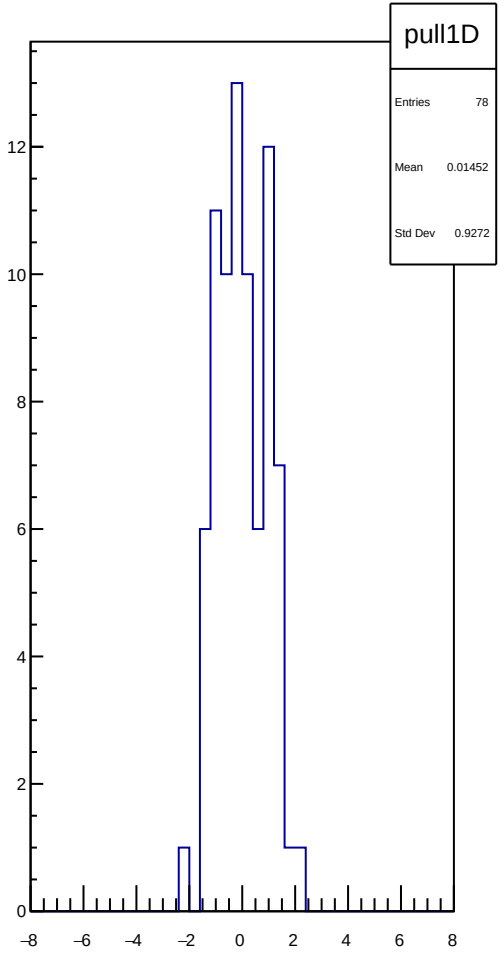

diff_bpm4aY_rms vs run
χ² / ndf 2938 / 77
p0 7184 ± 5.78
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

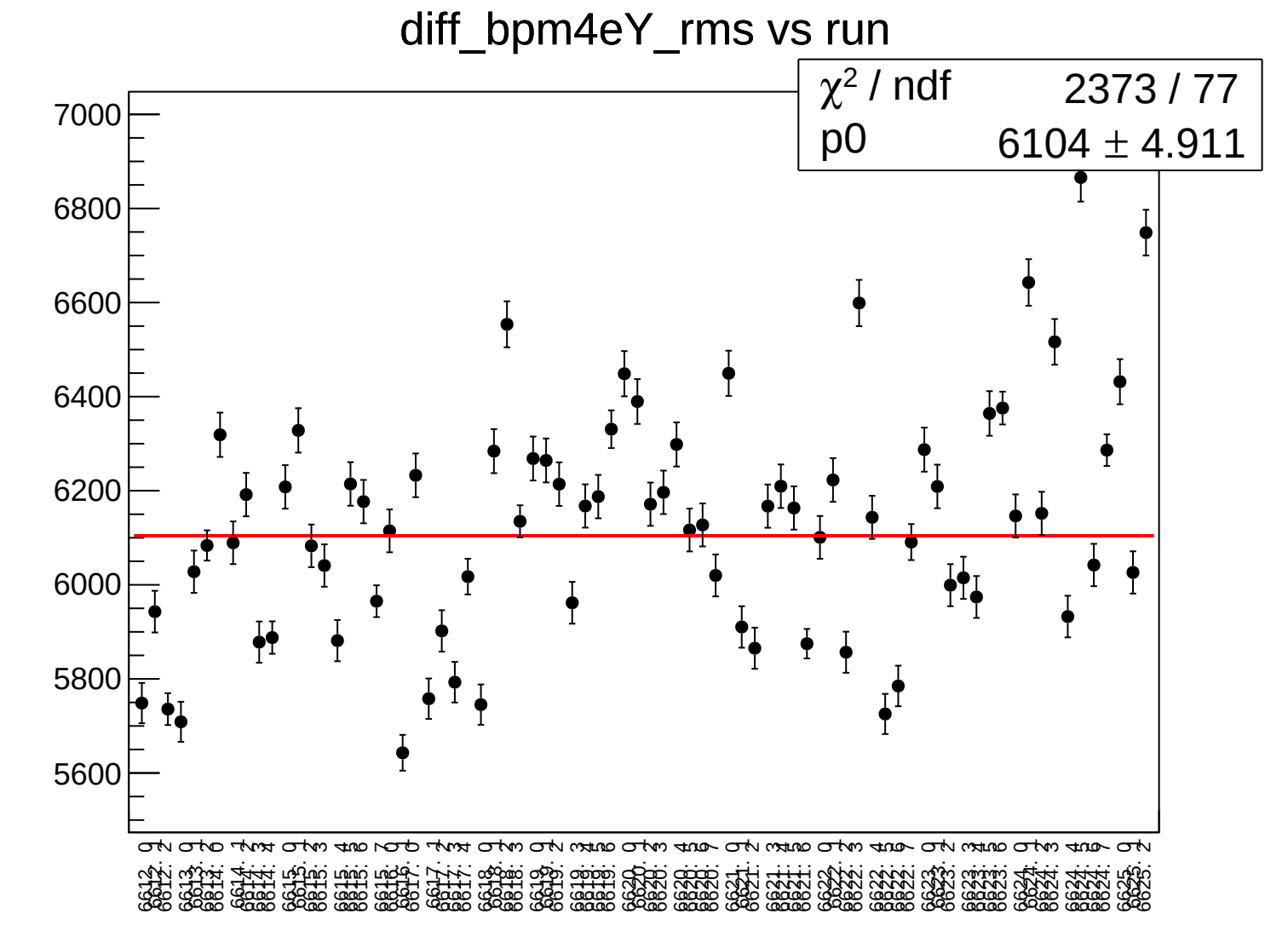

diff_bpm4eX_mean vs run
χ^2 / ndf 87.26 / 77
p0 −14.91± 8.649
pull
Entries 78
Mean 300.8
Std Dev 151.7

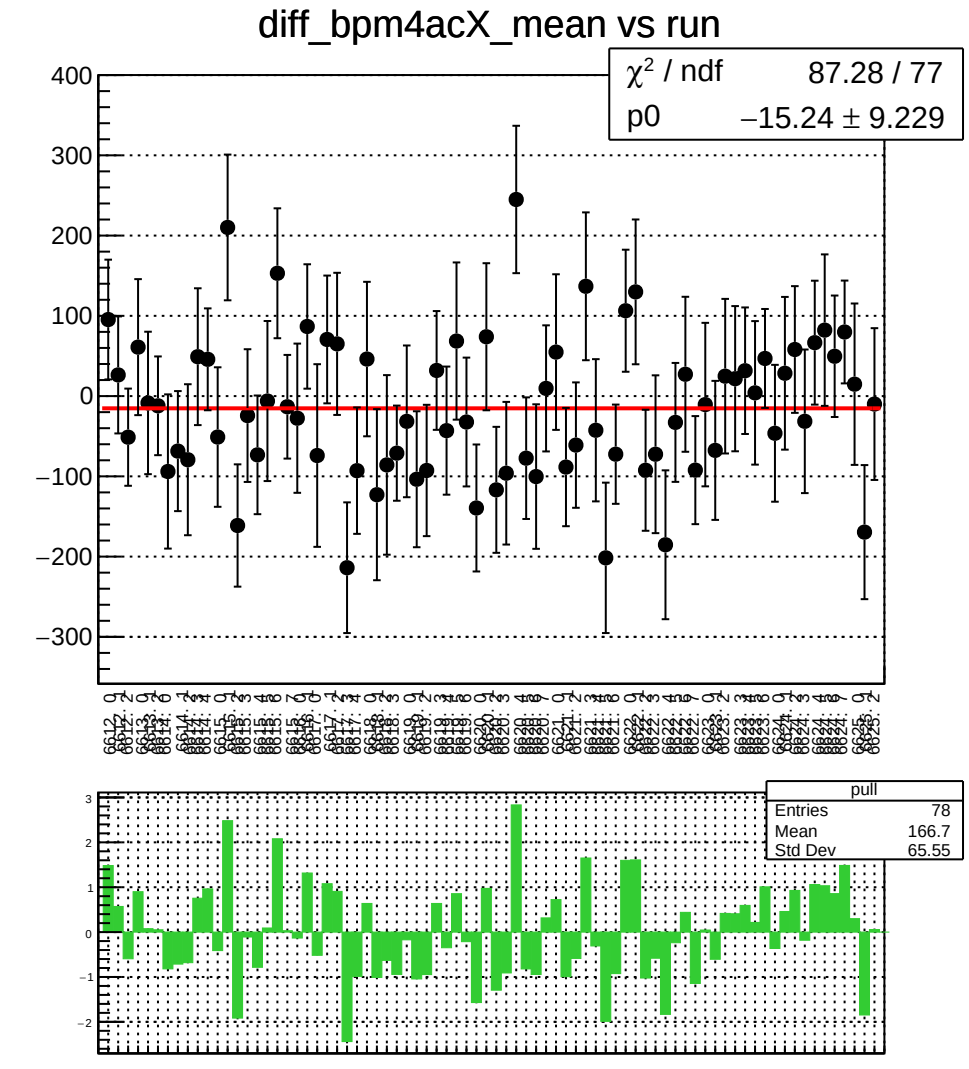

pull1D
Entries 78
Mean 0.002047
Std Dev 1.058

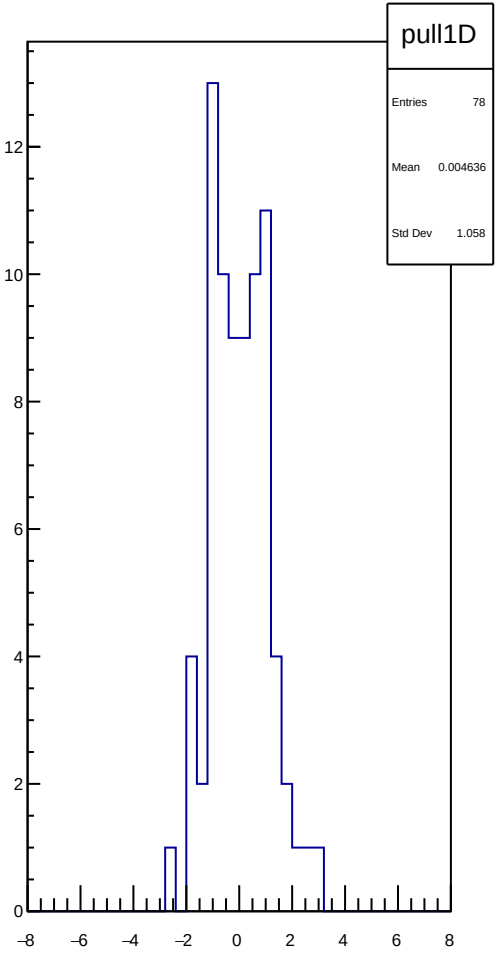

diff_bpm4eX_rms vs run
χ² / ndf 1.486e+04 / 77
p0 7571 ± 6.116
10500
10000
9500
9000
8500
8000
7500
7000
6500

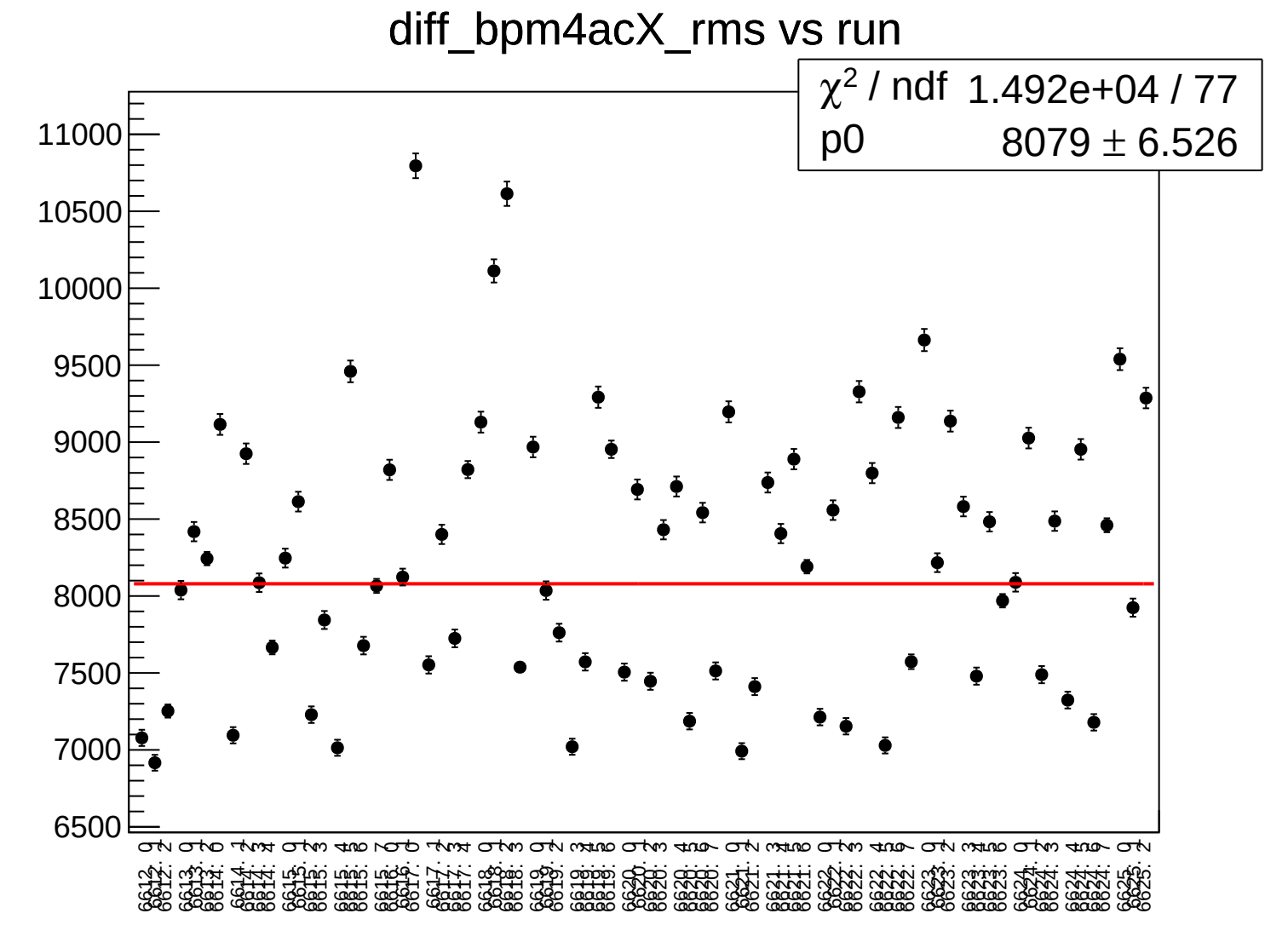

diff_bpm4eY_mean vs run
χ^2 / ndf 67.08 / 77
p0 10.42 ± 6.945
pull
Entries 78
Mean 74.6
Std Dev 51.18

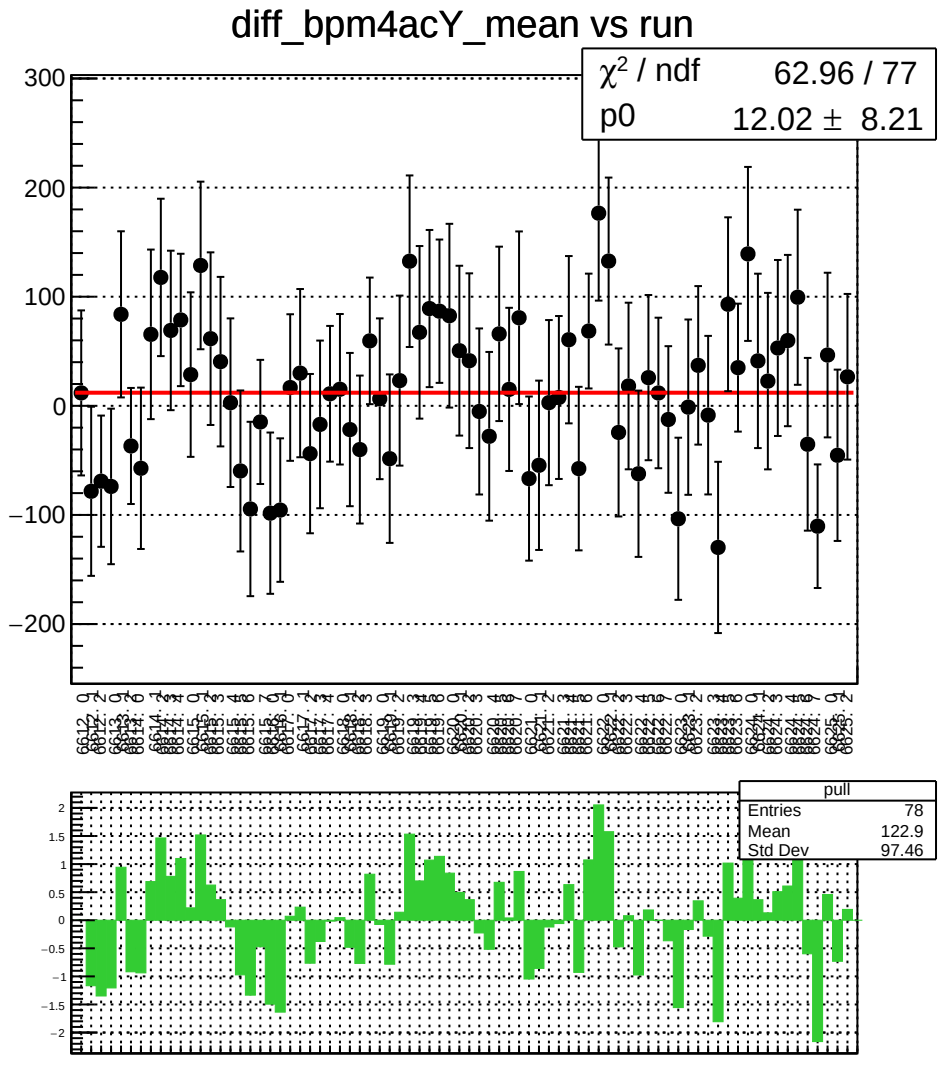

pull1D
Entries 78
Mean 0.01452
Std Dev 0.9272

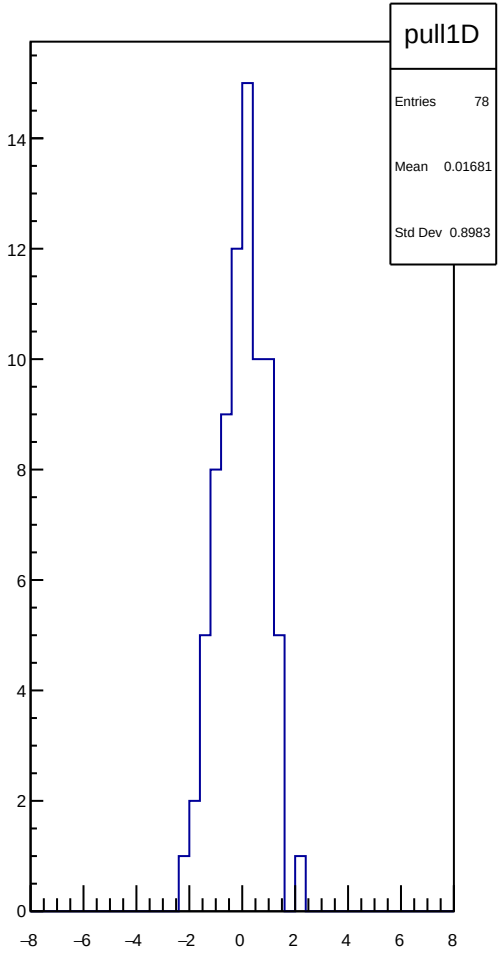

diff_bpm4eY_rms vs run
χ² / ndf 2373 / 77
p0 6104 ± 4.911
7000
6800
6600
6400
6200
6000
5800
5600

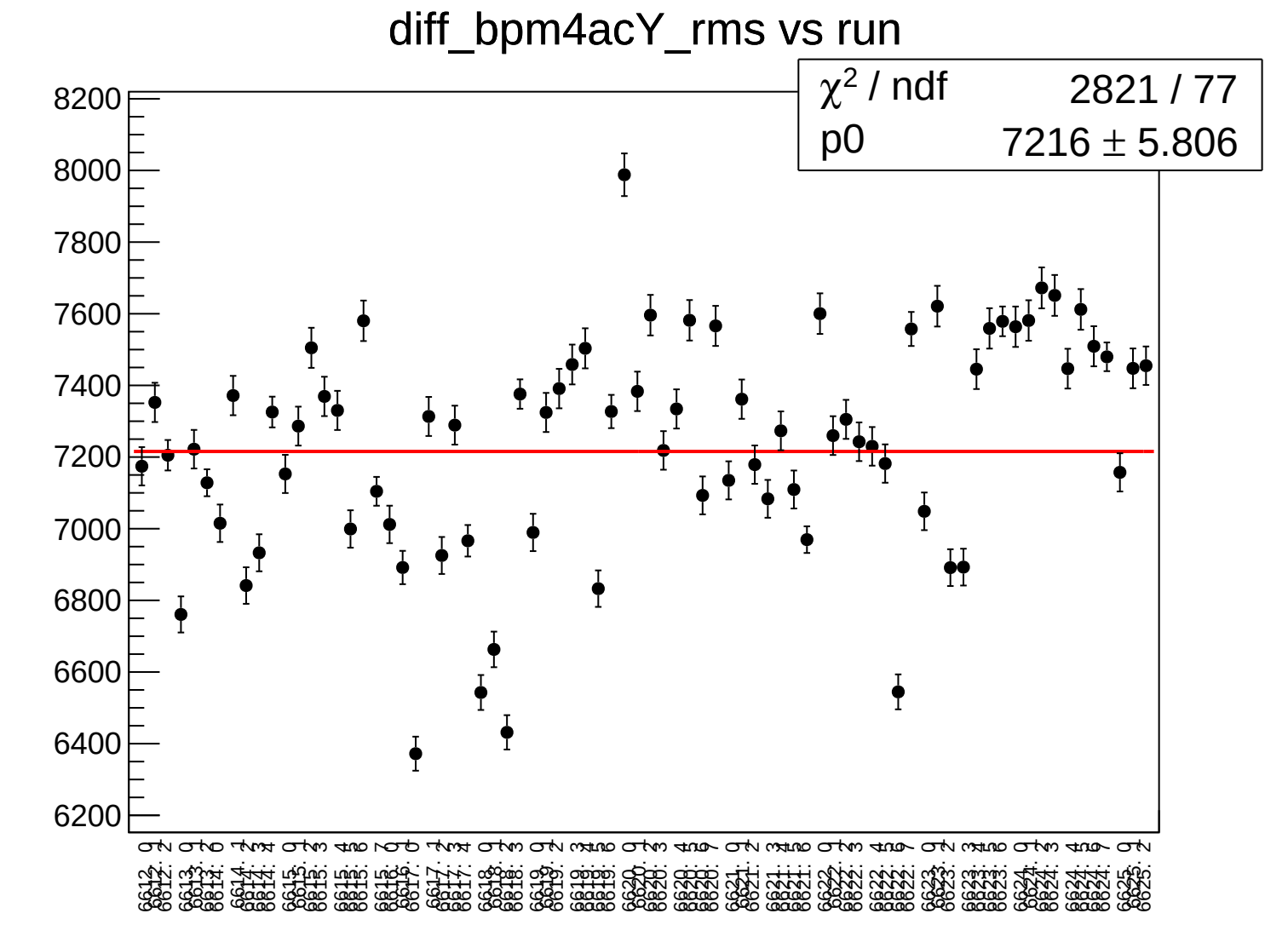

diff_bpm4acX_mean vs run
χ² / ndf 87.28 / 77
p0 −15.24 ± 9.229
pull
Entries 78
Mean 166.7
Std Dev 65.55

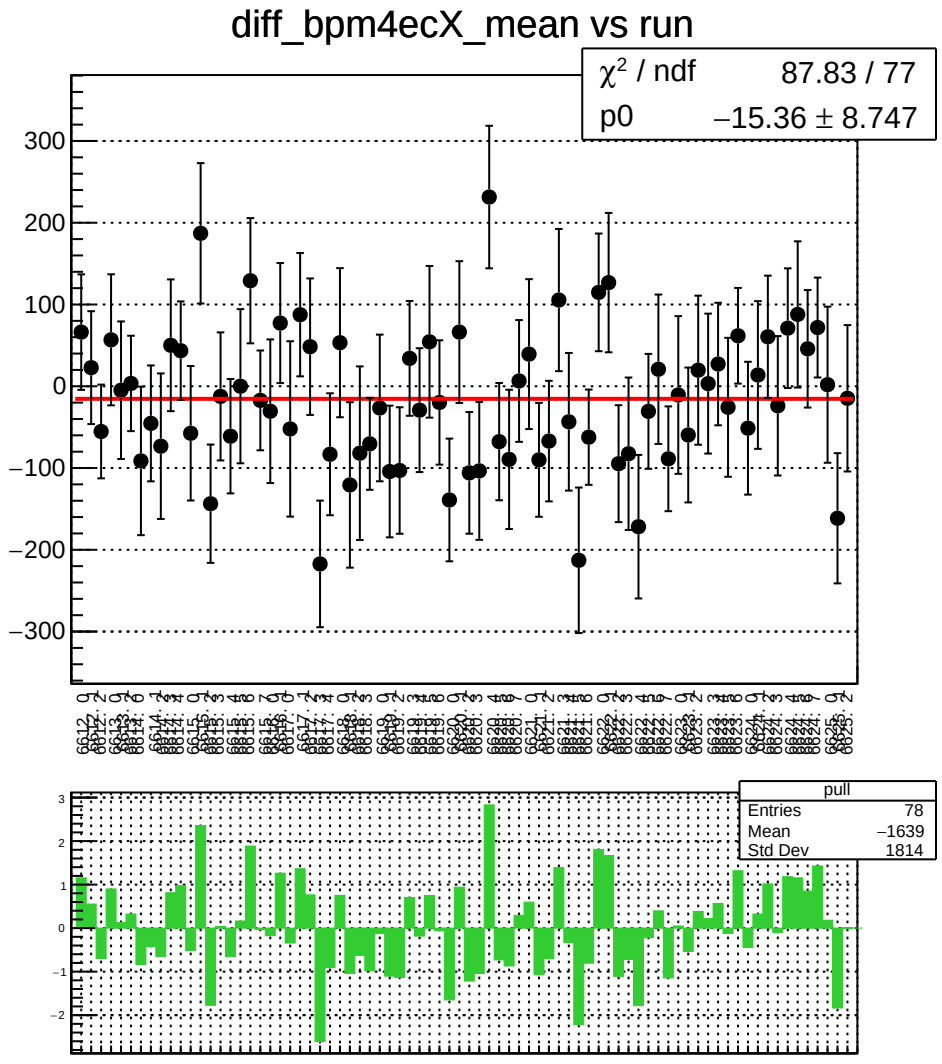

pull1D
Entries 78
Mean 0.004636
Std Dev 1.058

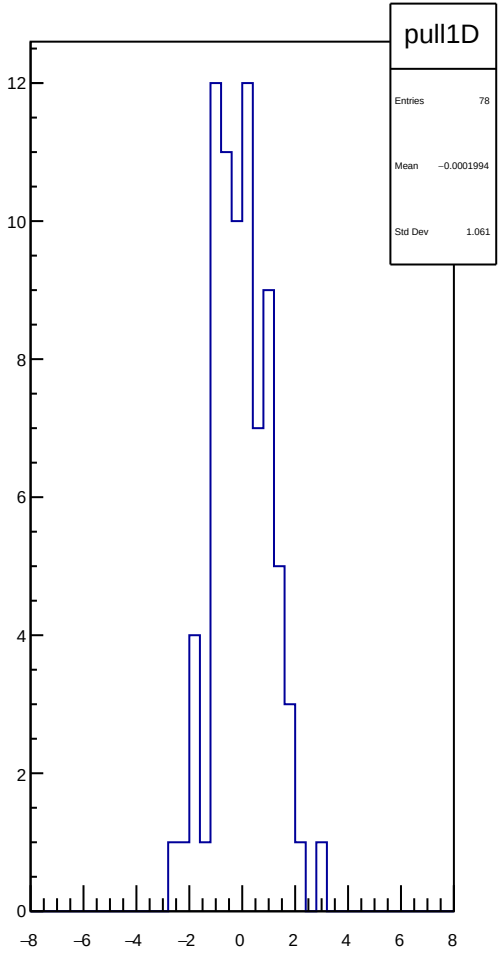

diff_bpm4acX_rms vs run
χ² / ndf 1.492e+04 / 77
p0 8079 ± 6.526
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

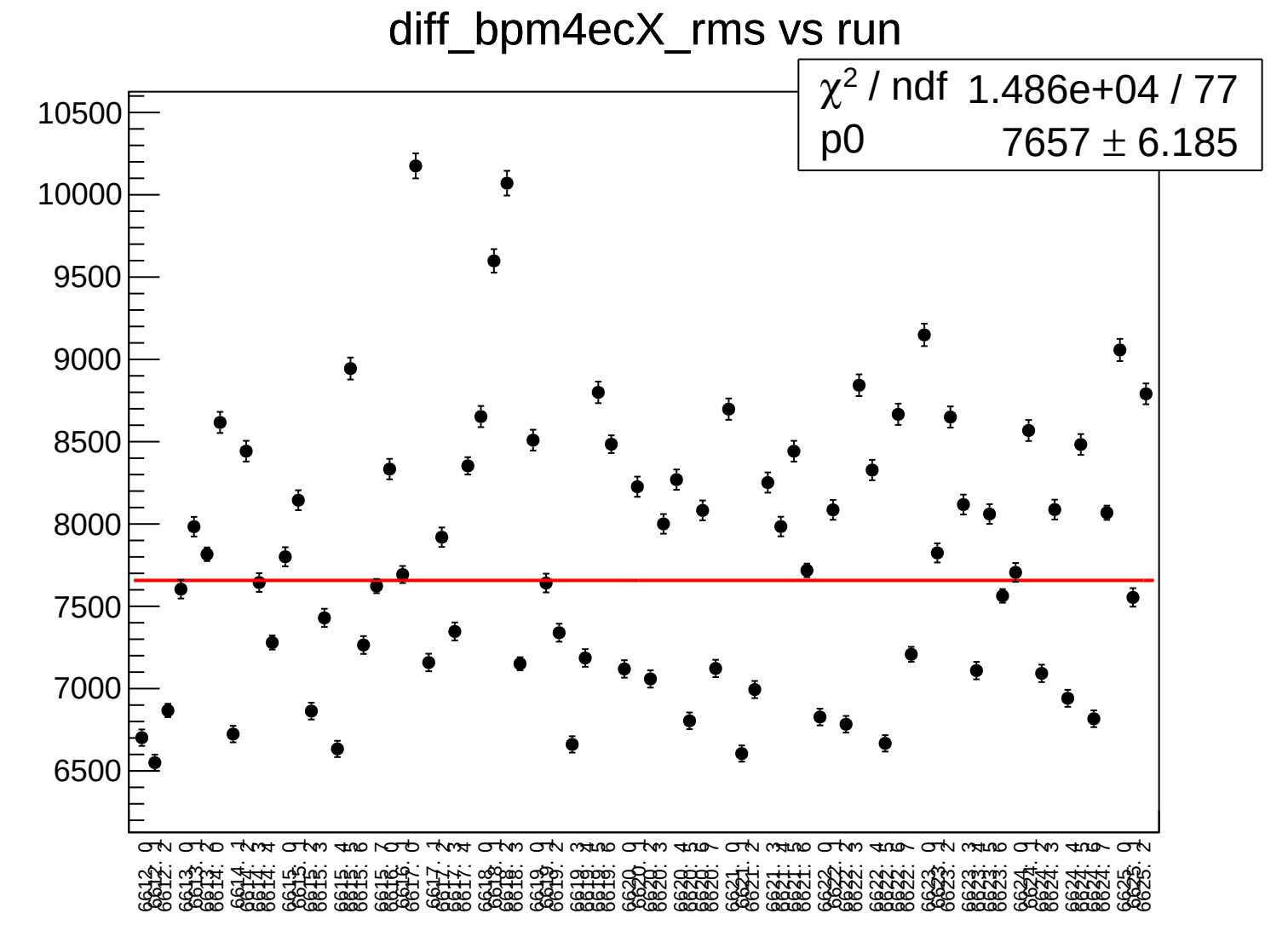

diff_bpm4acY_mean vs run
χ² / ndf 62.96 / 77
p0 12.02 ± 8.21
pull
Entries 78
Mean 122.9
Std Dev 97.46

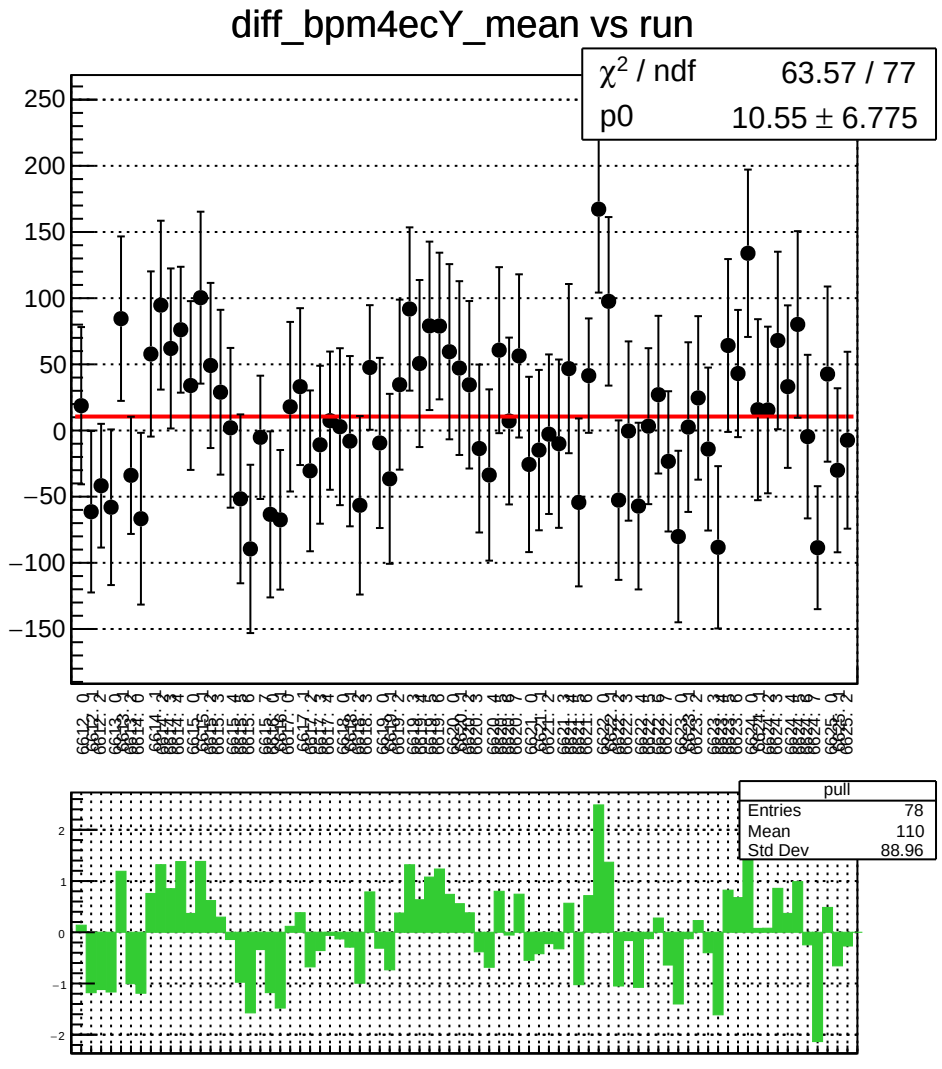

pull1D
Entries 78
Mean 0.01681
Std Dev 0.8983

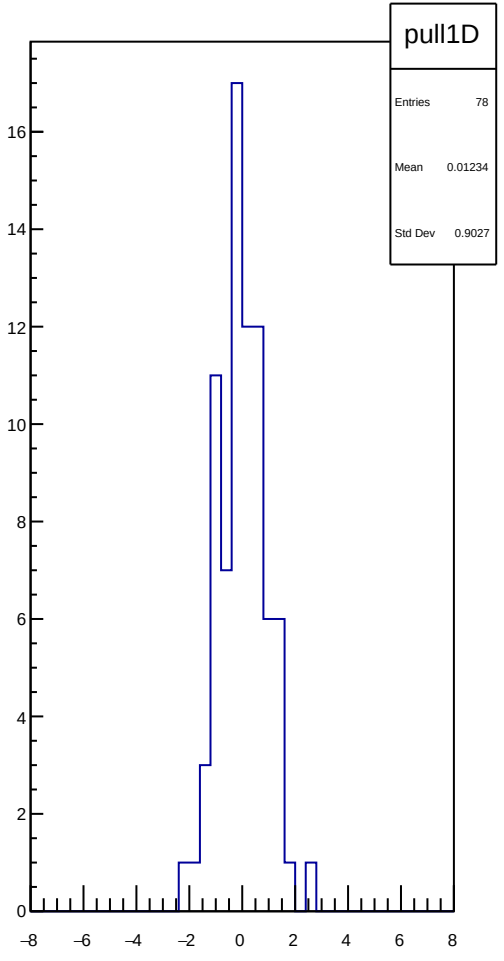

diff_bpm4acY_rms vs run
χ² / ndf 2821 / 77
p0 7216 ± 5.806
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

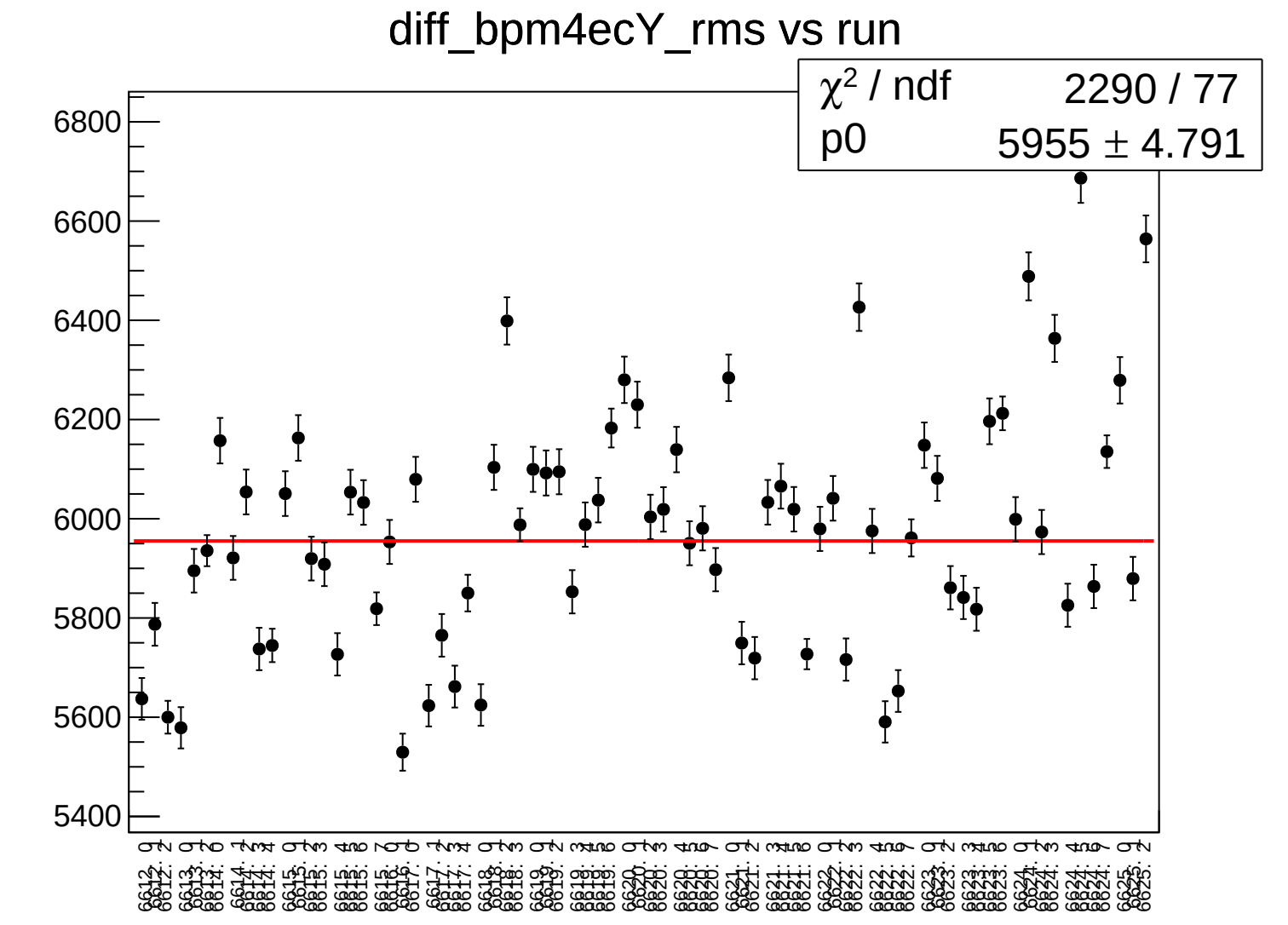

diff_bpm4ecX_mean vs run
χ² / ndf 87.83 / 77
p0 −15.36 ± 8.747
pull
Entries 78
Mean −1639
Std Dev 1814

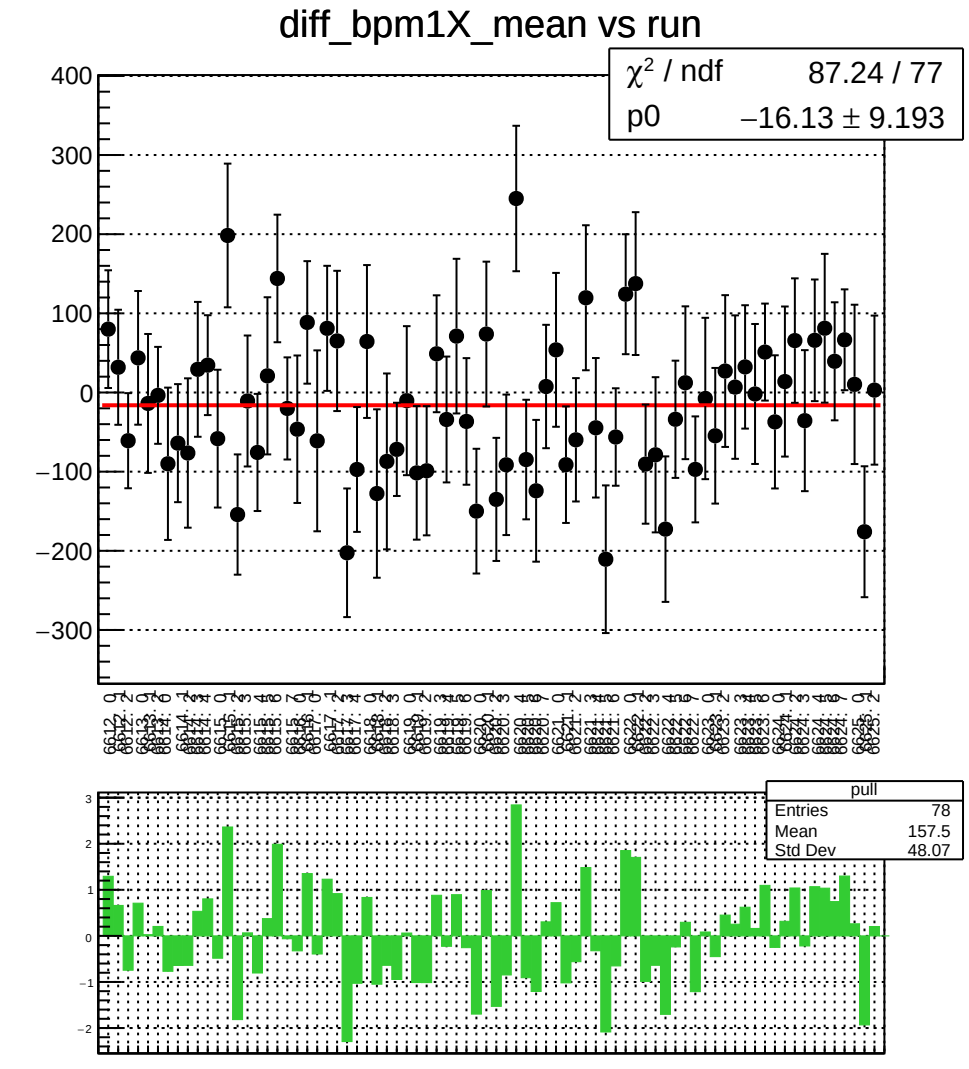

pull1D
Entries 78
Mean −0.0001994
Std Dev 1.061

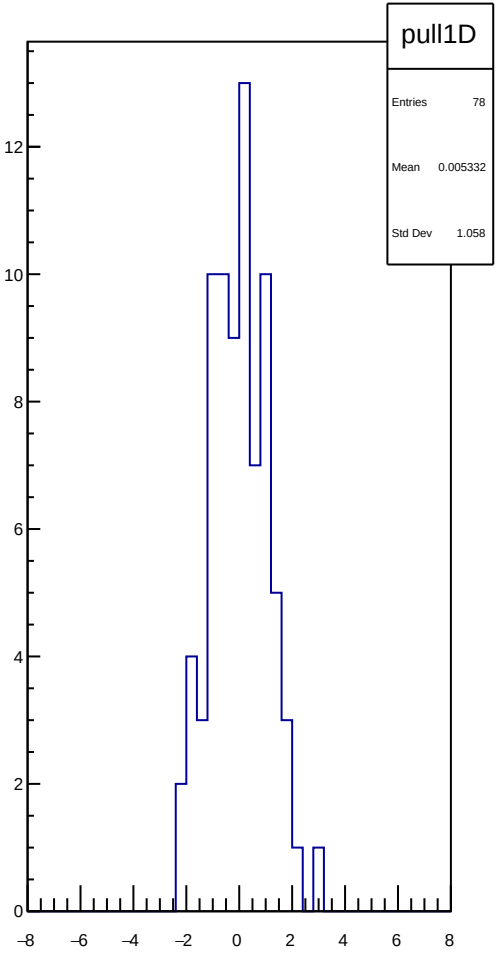

diff_bpm4ecX_rms vs run
χ² / ndf 1.486e+04 / 77
p0 7657 ± 6.185
10500
10000
9500
9000
8500
8000
7500
7000
6500

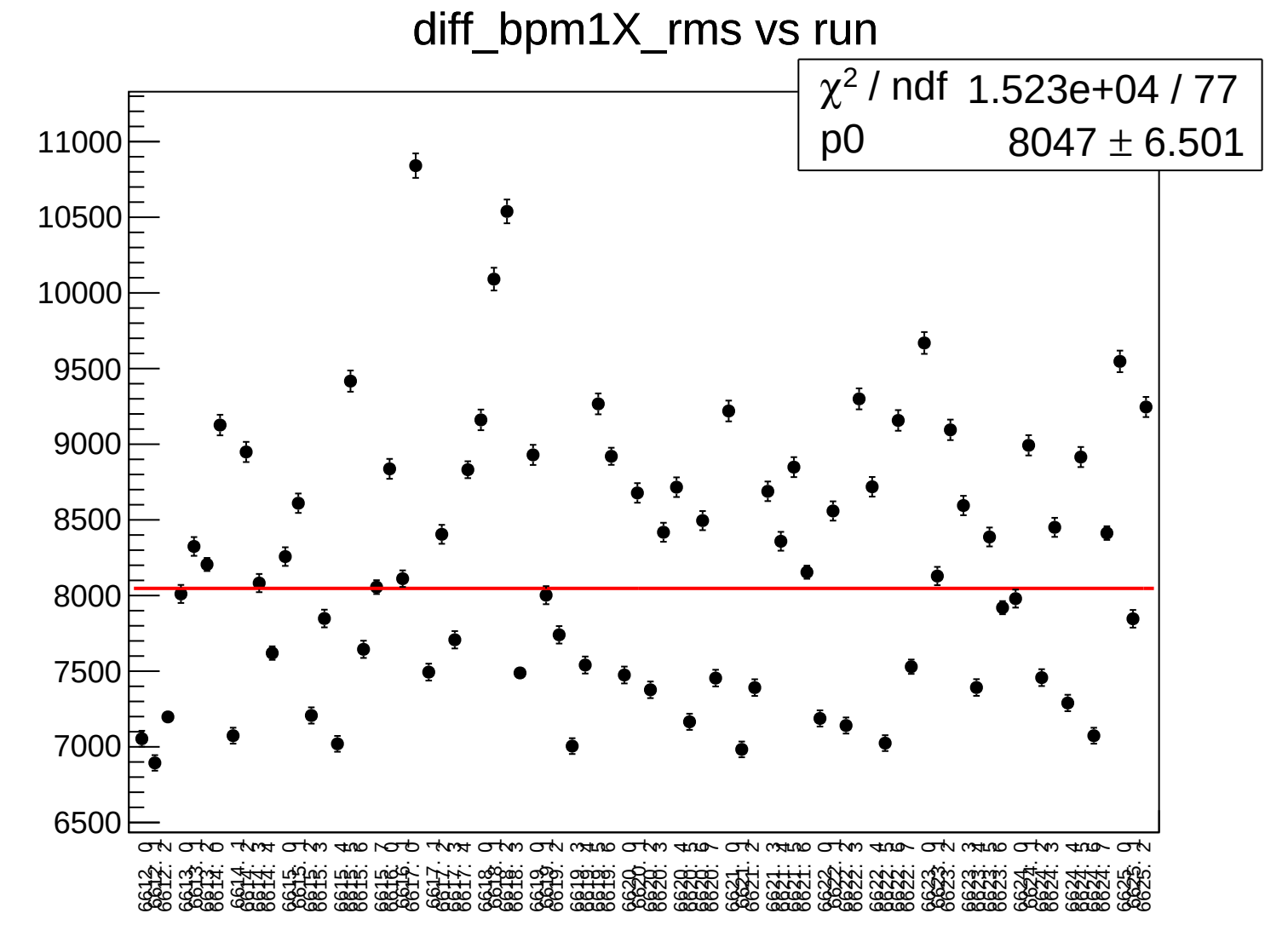

diff_bpm4ecY_mean vs run
χ² / ndf 63.57 / 77
p0 10.55 ± 6.775
pull
Entries 78
Mean 110
Std Dev 88.96

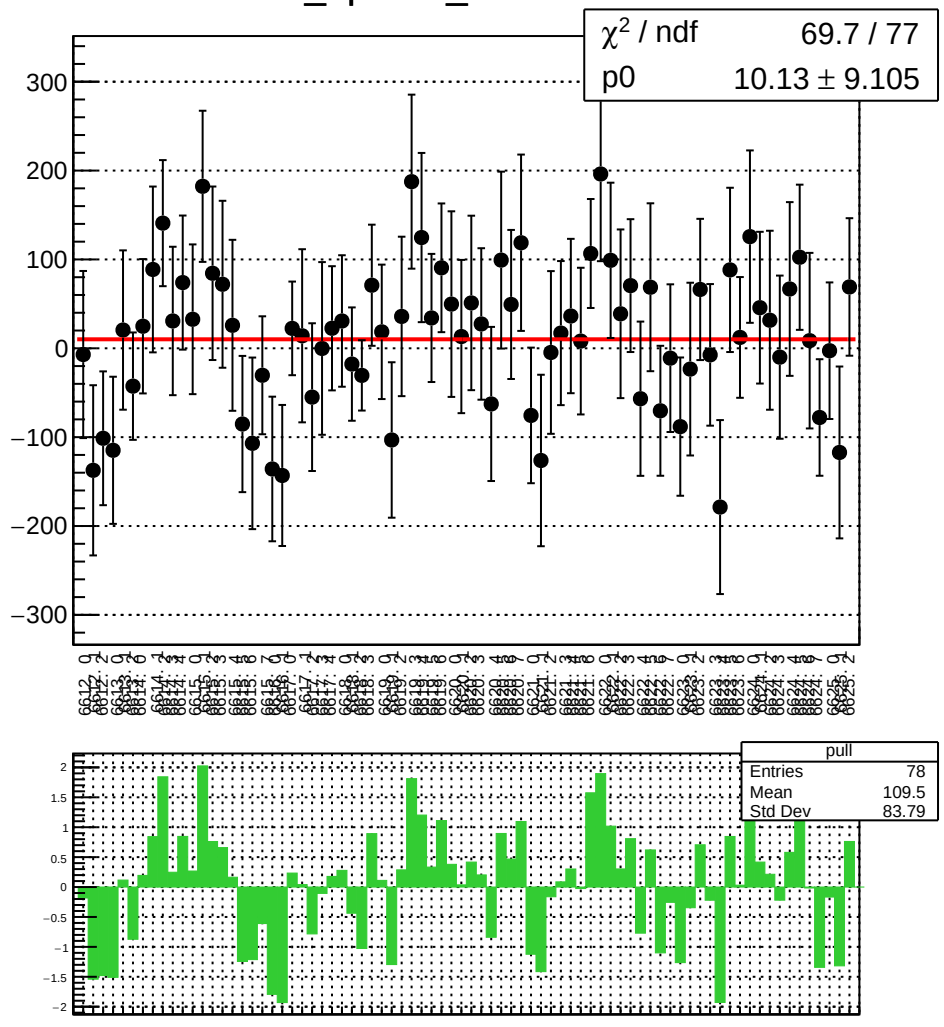

pull1D
Entries 78
Mean 0.01234
Std Dev 0.9027

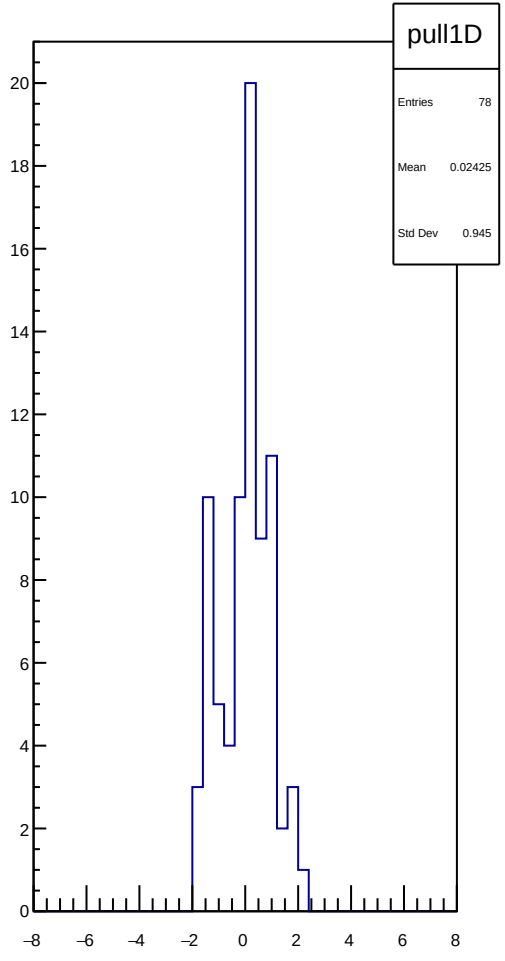

diff_bpm4ecY_rms vs run
χ² / ndf 2290 / 77
p0 5955 ± 4.791
6800
6600
6400
6200
6000
5800
5600
5400

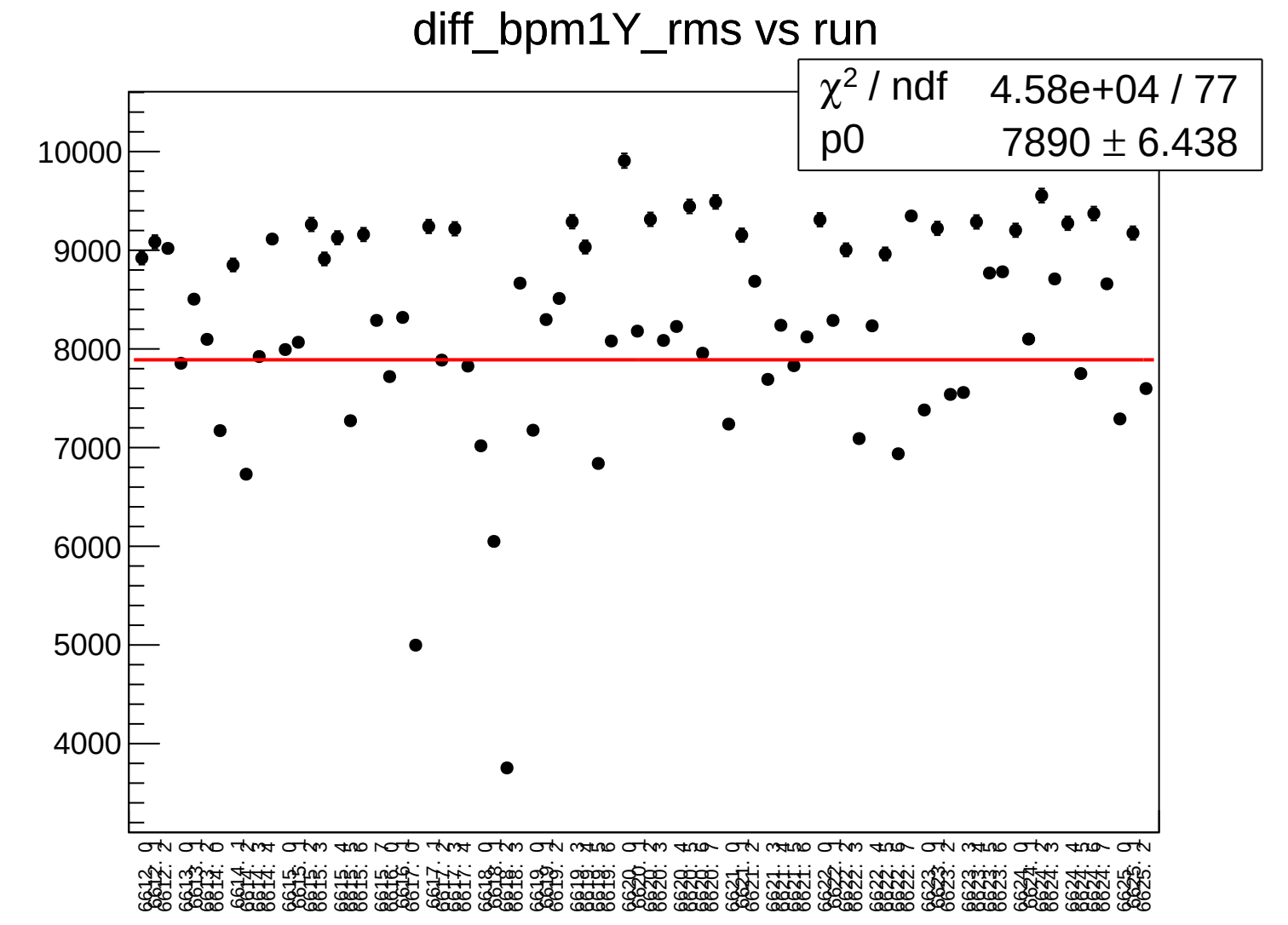

diff_bpm1X_mean vs run
χ² / ndf 87.24 / 77
p0 −16.13 ± 9.193
pull
Entries 78
Mean 157.5
Std Dev 48.07

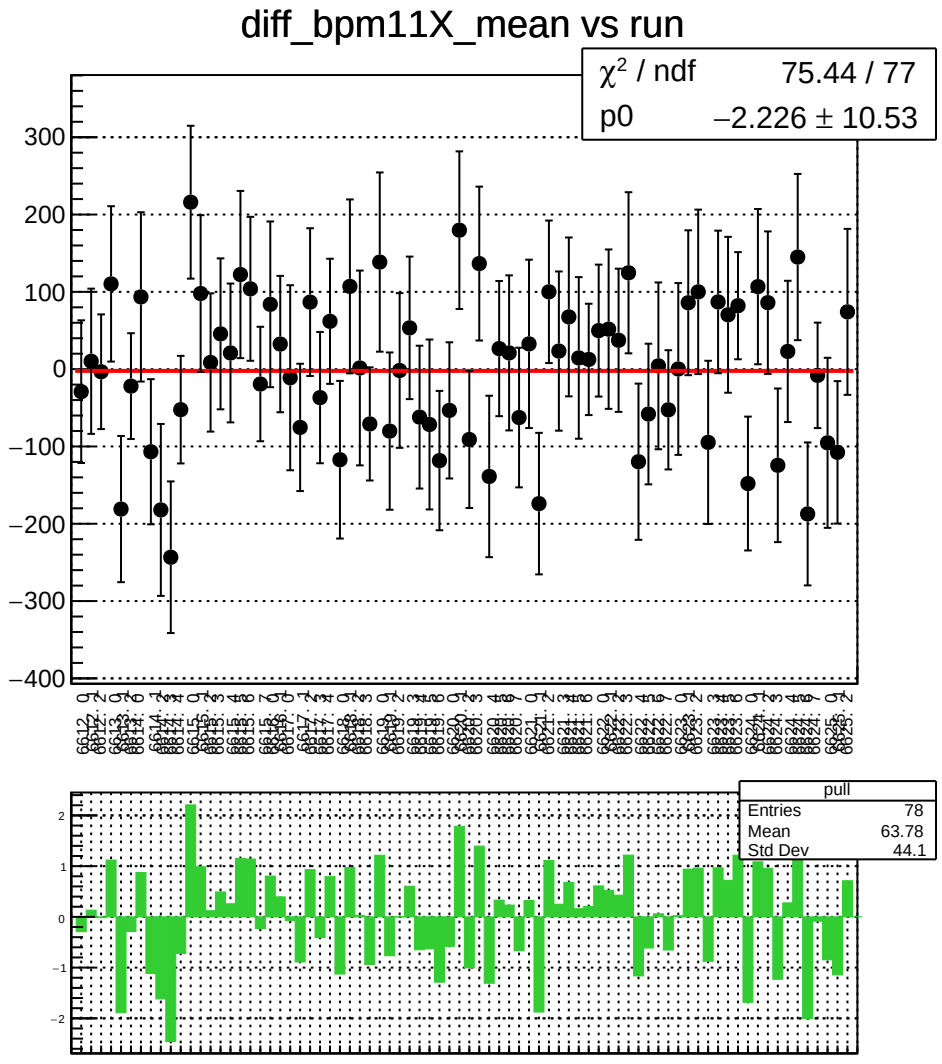

pull1D
Entries 78
Mean 0.005332
Std Dev 1.058

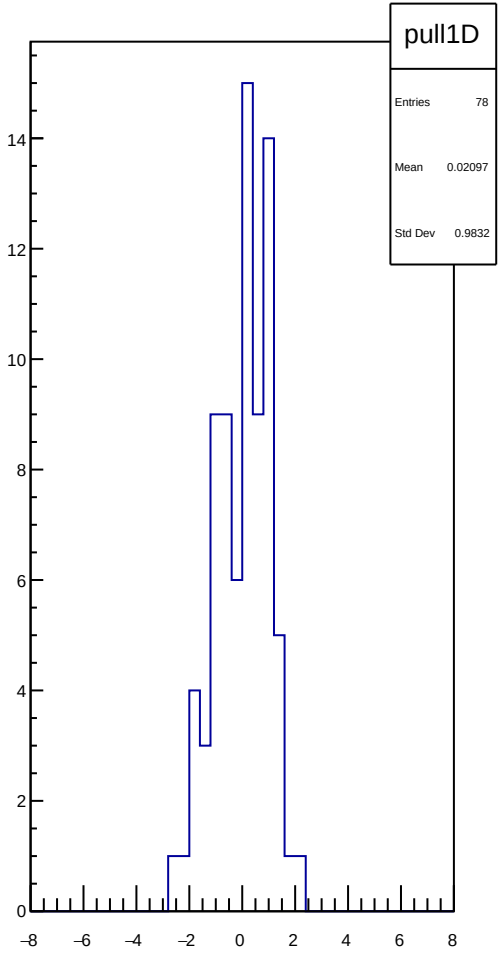

diff_bpm1X_rms vs run
χ² / ndf 1.523e+04 / 77
p0 8047 ± 6.501
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

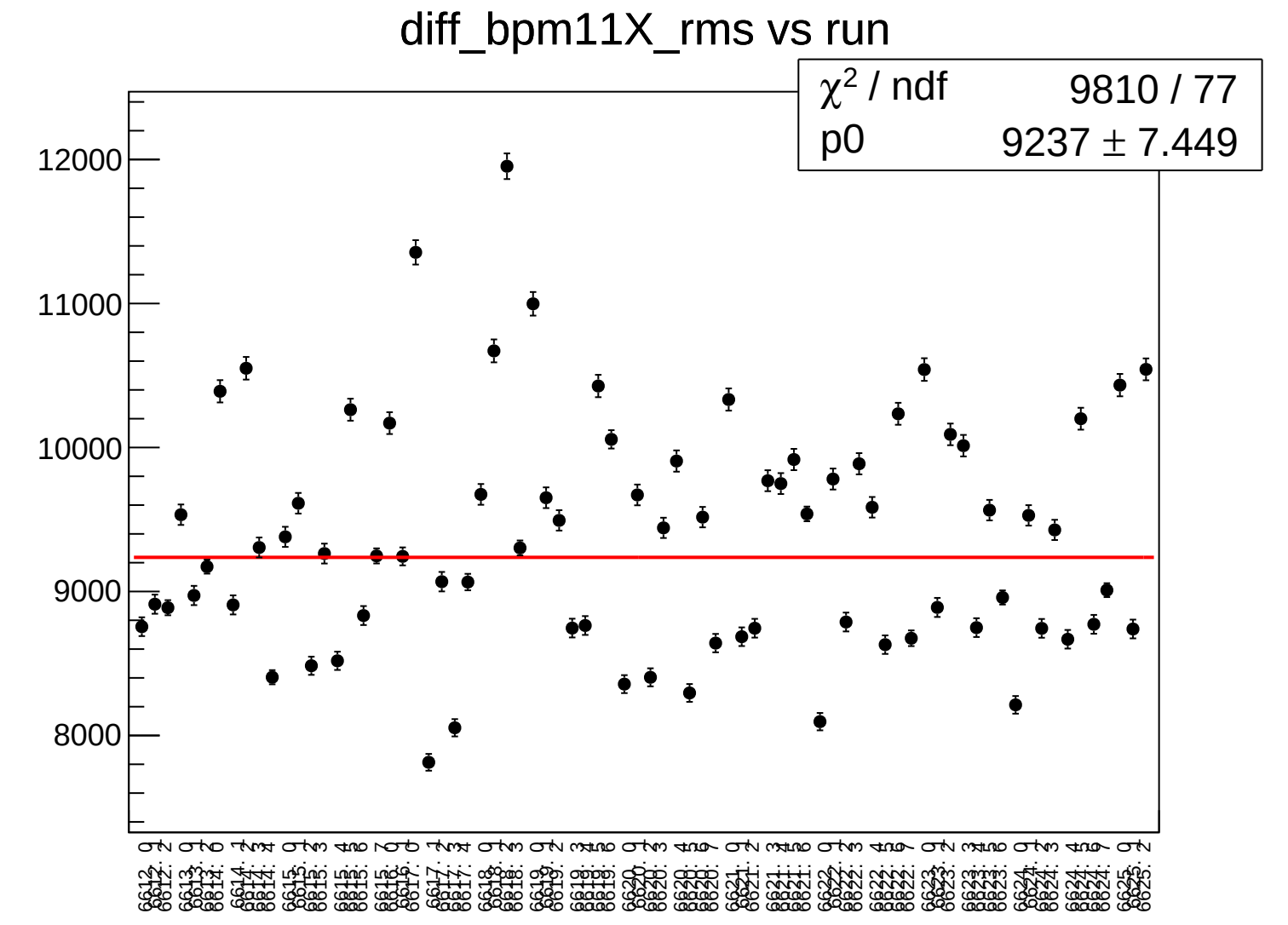

diff_bpm1Y_mean vs run
χ^2 / ndf 69.7 / 77
p0 10.13 ± 9.105
pull
Entries 78
Mean 109.5
Std Dev 83.79

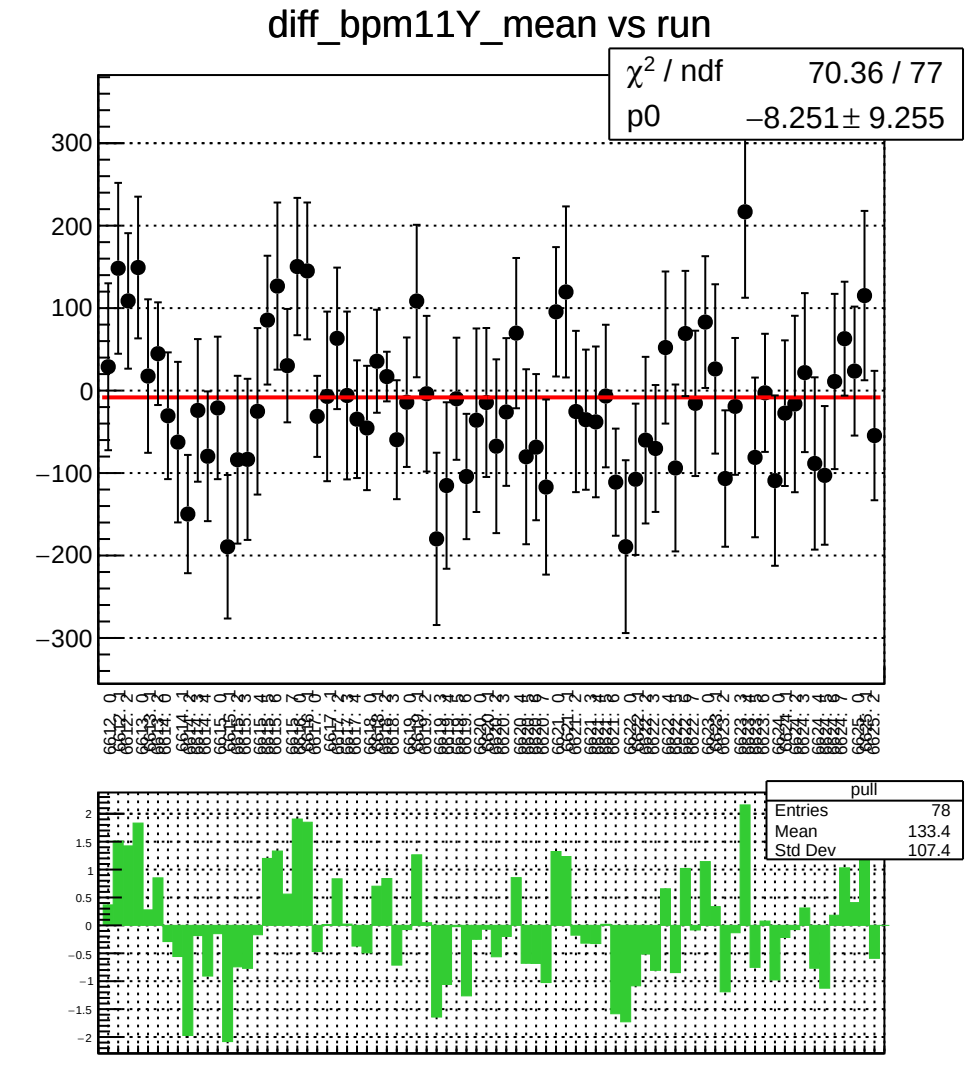

pull1D
Entries 78
Mean 0.02425
Std Dev 0.945

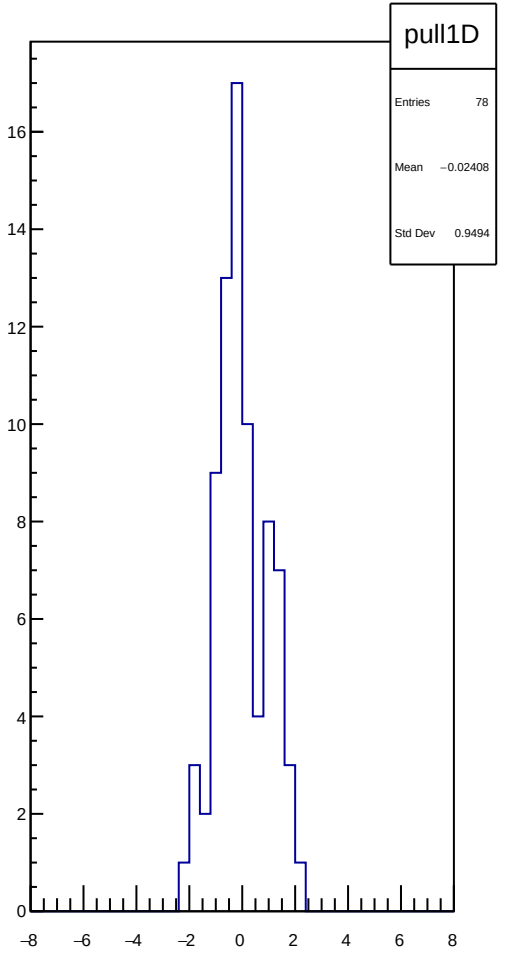

diff_bpm1Y_rms vs run
χ^2 / ndf 4.58e+04 / 77
p0 7890 ± 6.438
10000
9000
8000
7000
6000
5000
4000

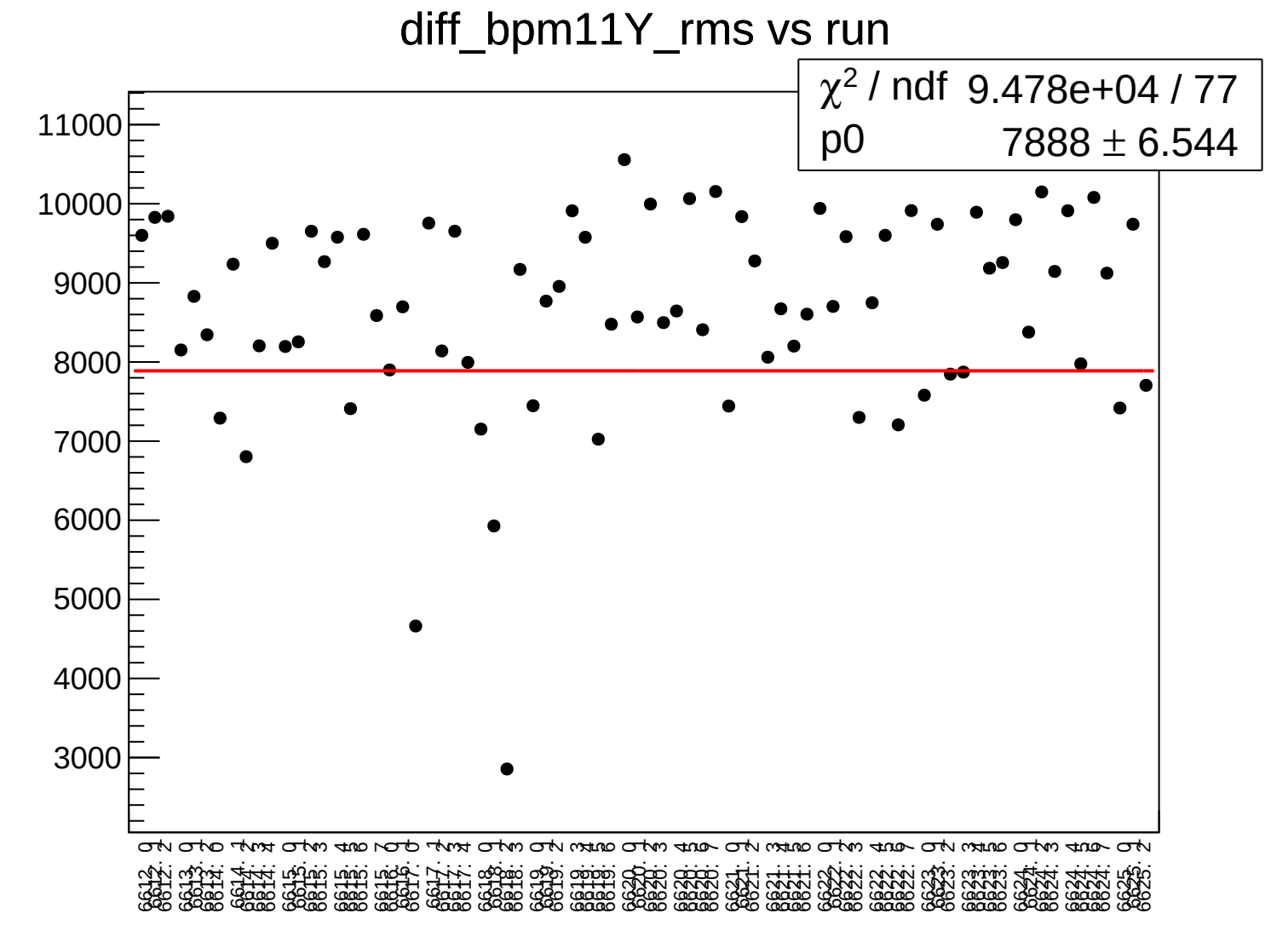

diff_bpm11X_mean vs run
χ² / ndf 75.44 / 77
p0 −2.226 ± 10.53
pull
Entries 78
Mean 63.78
Std Dev 44.1

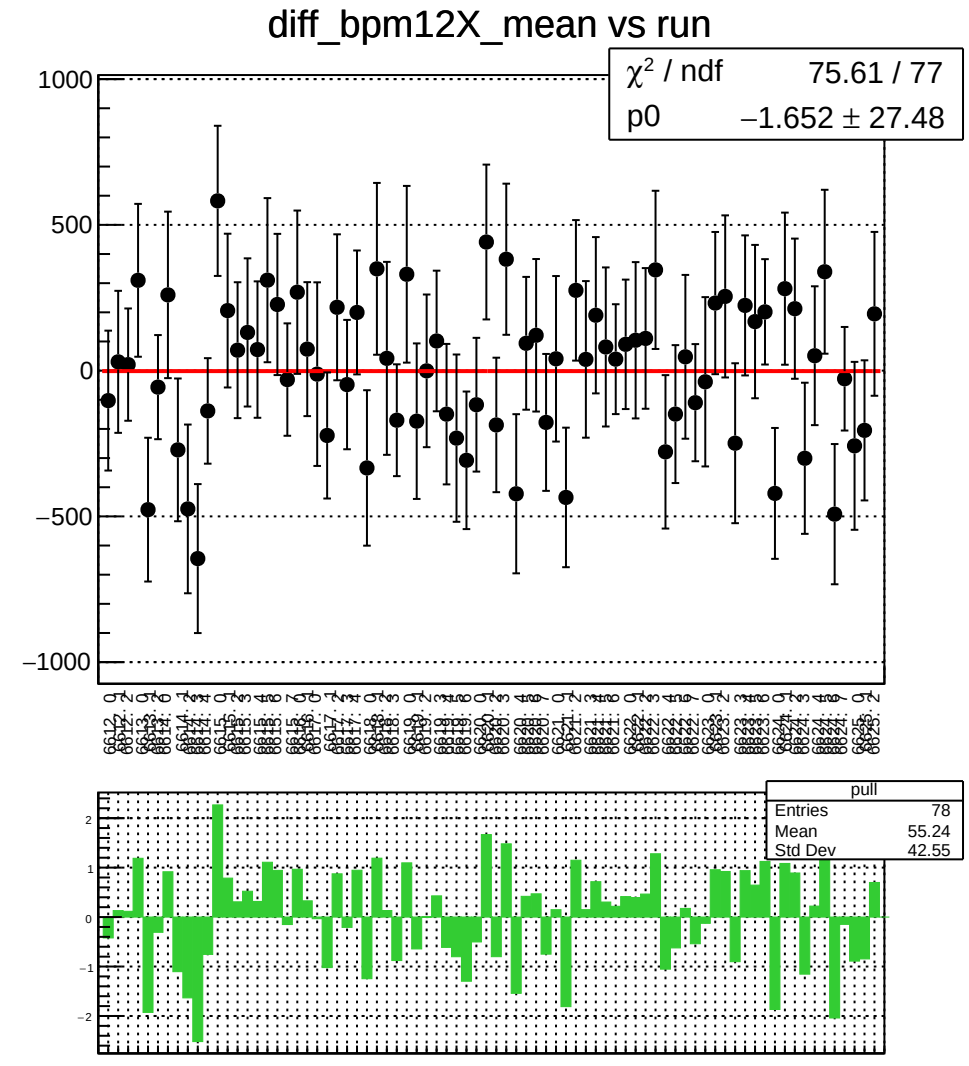

pull1D
Entries 78
Mean 0.02097
Std Dev 0.9832

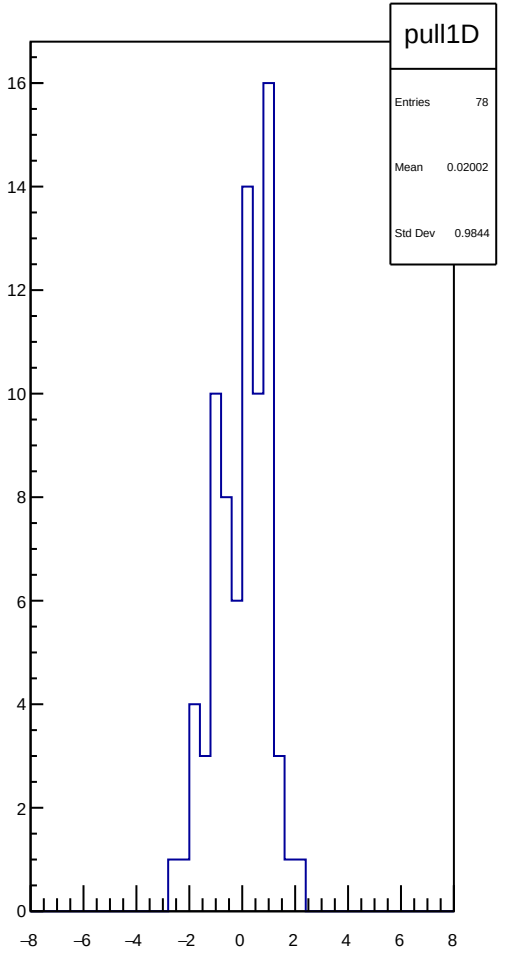

diff_bpm11X_rms vs run
χ² / ndf 9810 / 77
p0 9237 ± 7.449
12000
11000
10000
9000
8000

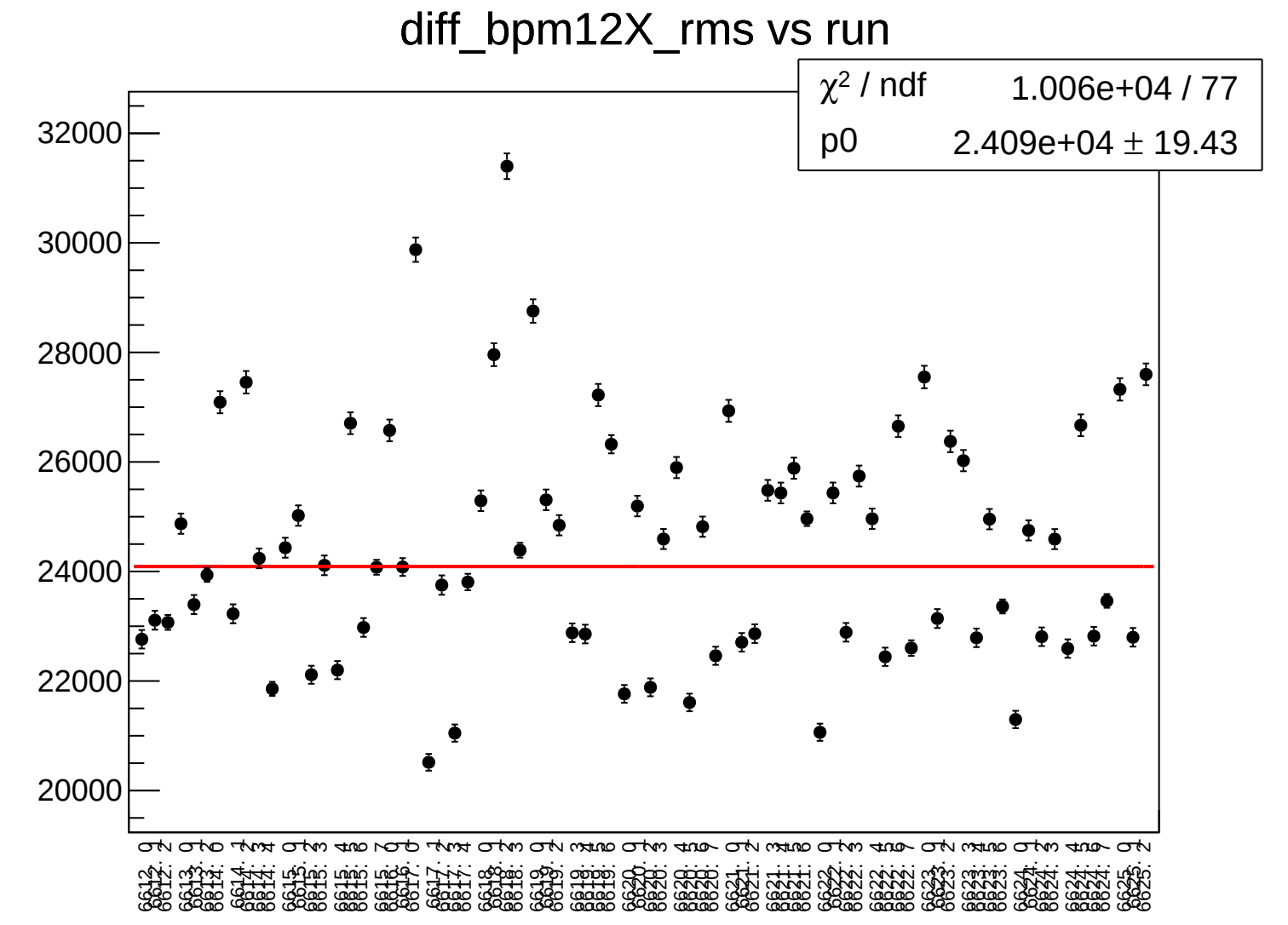

diff_bpm11Y_mean vs run
χ² / ndf 70.36 / 77
p0 −8.251 ± 9.255
pull
Entries 78
Mean 133.4
Std Dev 107.4

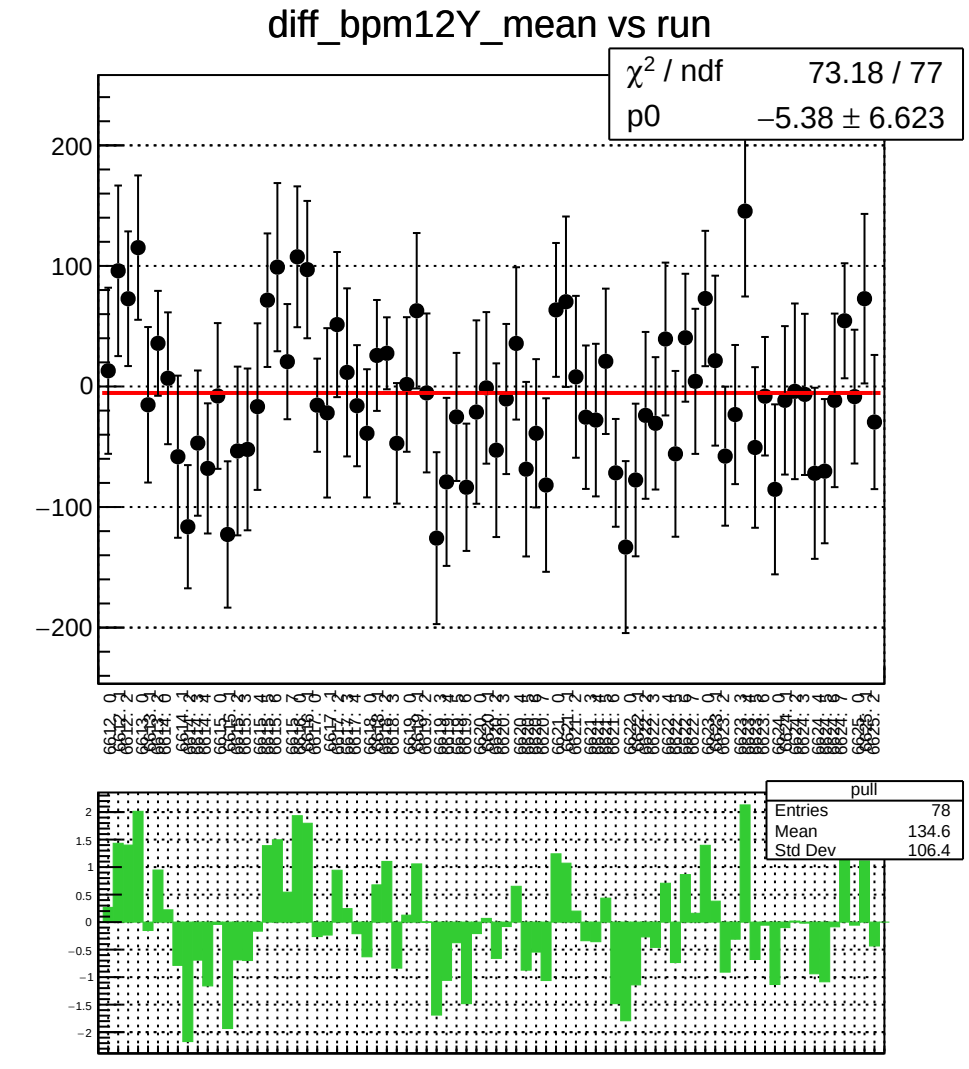

pull1D
Entries 78
Mean −0.02408
Std Dev 0.9494

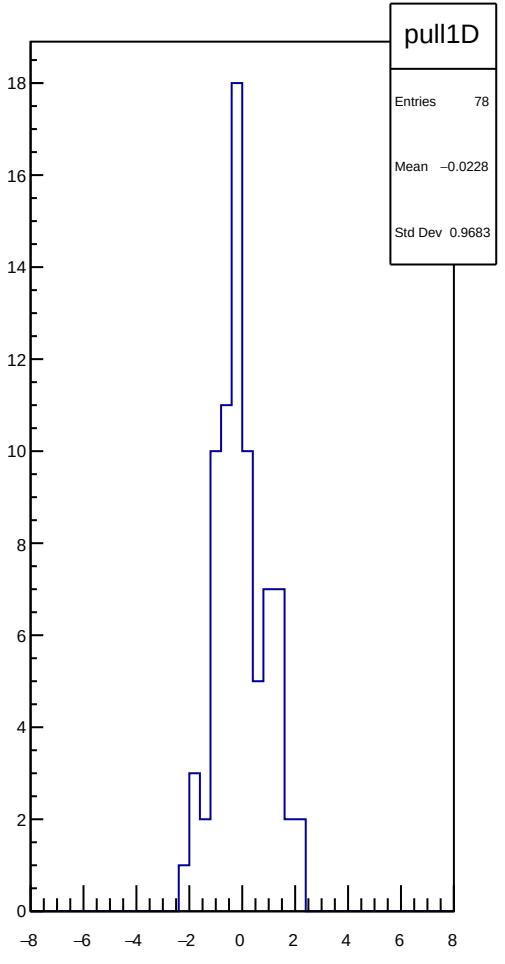

diff_bpm11Y_rms vs run
χ² / ndf 9.478e+04 / 77
p0 7888 ± 6.544
11000
10000
9000
8000
7000
6000
5000
4000
3000

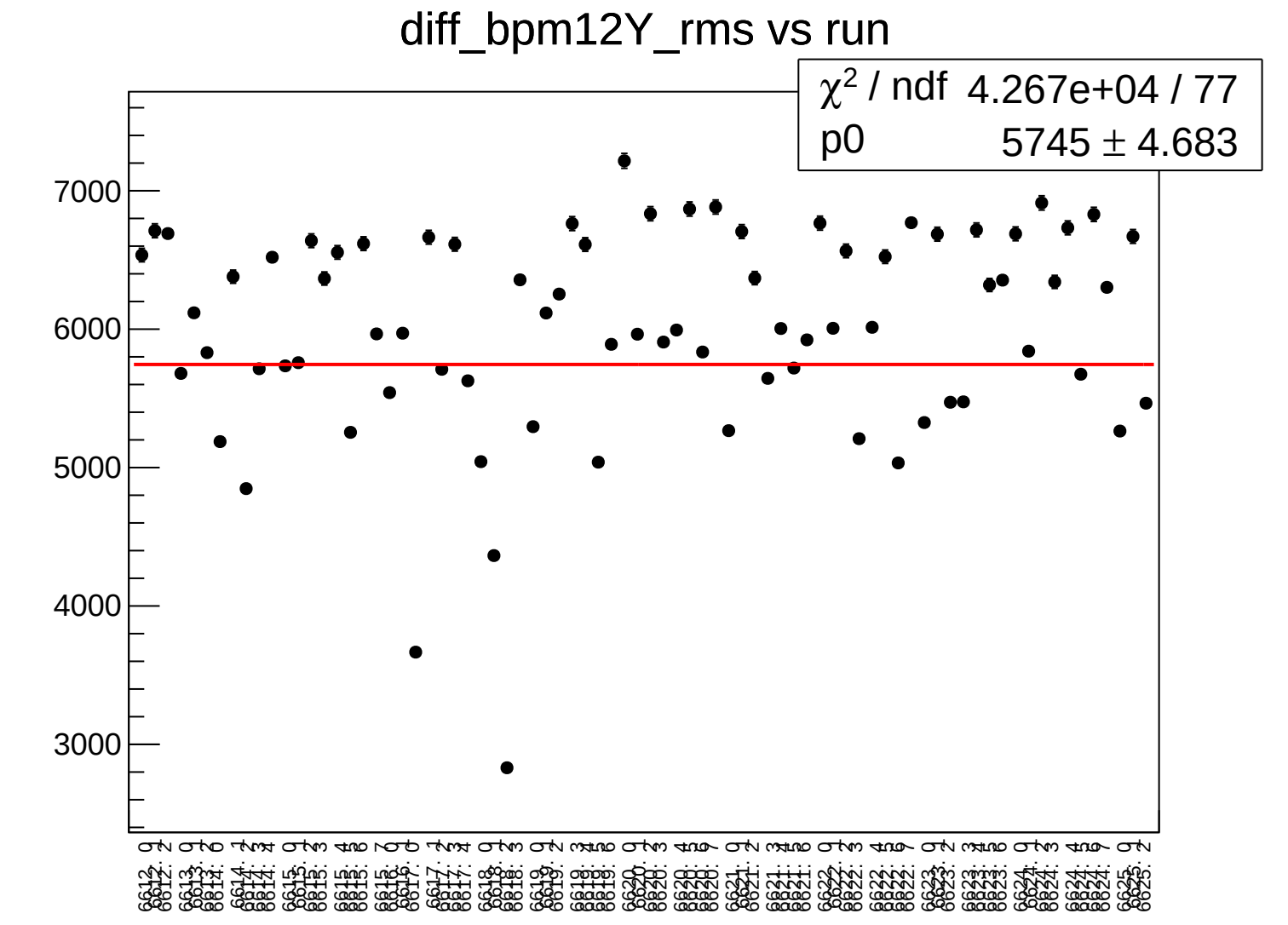

diff_bpm12X_mean vs run
χ² / ndf 75.61 / 77
p0 −1.652 ± 27.48
1000
500
0
−500
−1000
pull
Entries 78
Mean 55.24
Std Dev 42.55
2
1
0
−1
−2

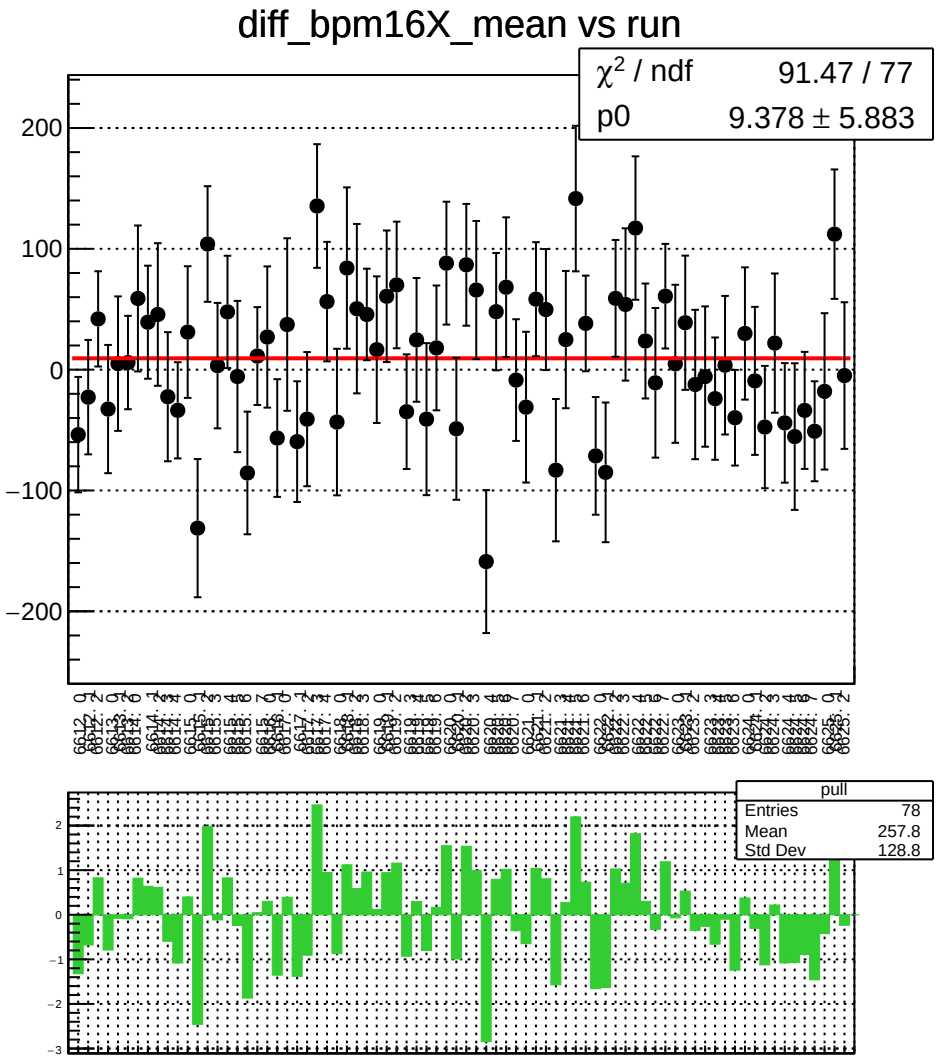

pull1D
Entries 78
Mean 0.02002
Std Dev 0.9844
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

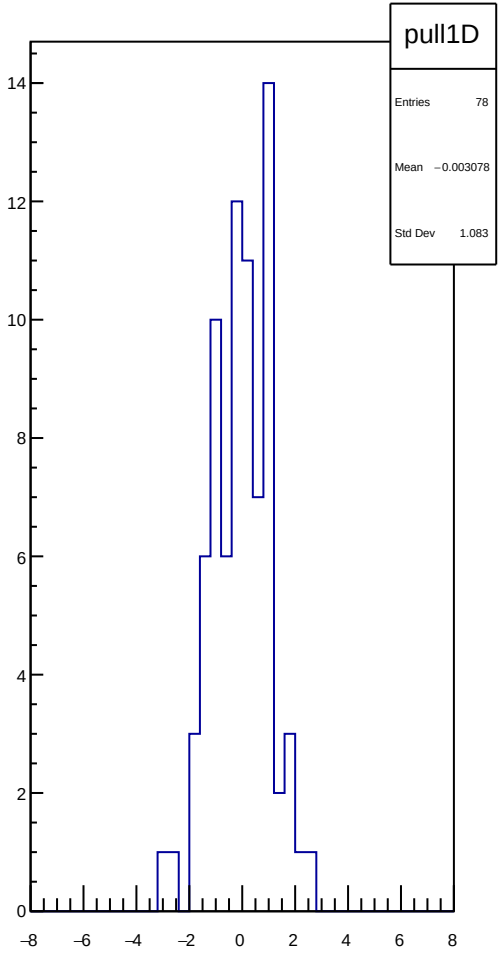

diff_bpm12X_rms vs run
χ² / ndf 1.006e+04 / 77
p0 2.409e+04 ± 19.43
32000
30000
28000
26000
24000
22000
20000

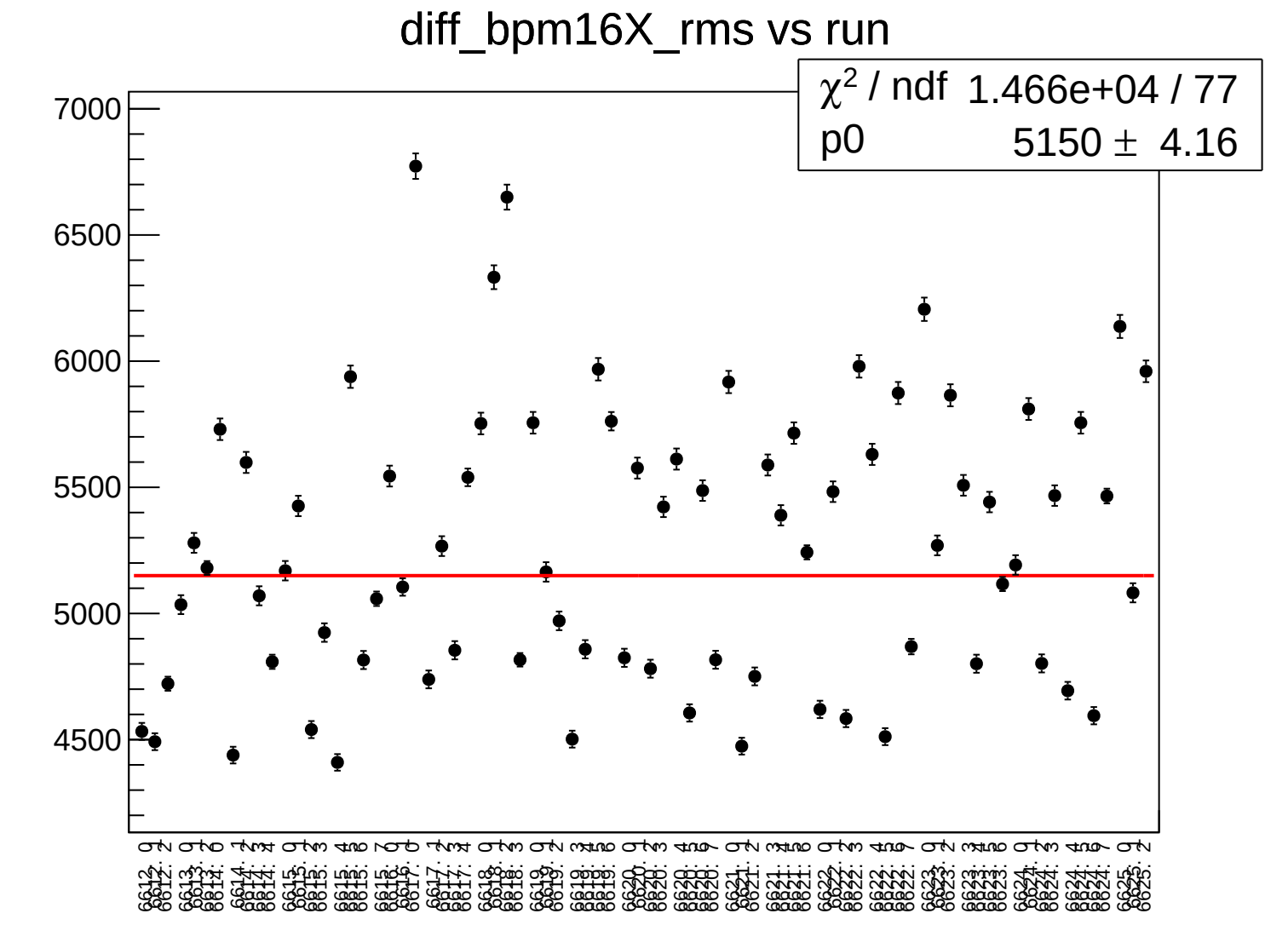

diff_bpm12Y_mean vs run
χ² / ndf 73.18 / 77
p0 −5.38 ± 6.623
200
100
0
−100
−200
pull
Entries 78
Mean 134.6
Std Dev 106.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

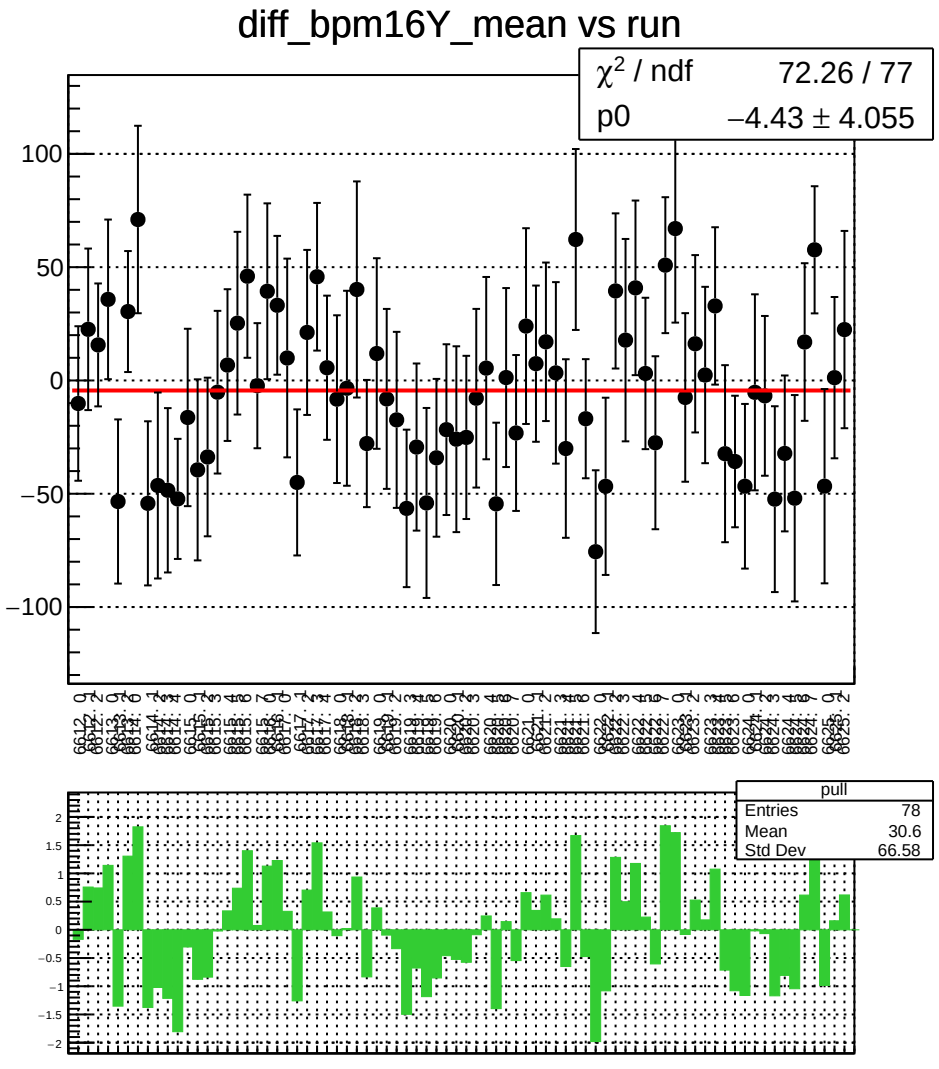

pull1D
Entries 78
Mean −0.0228
Std Dev 0.9683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

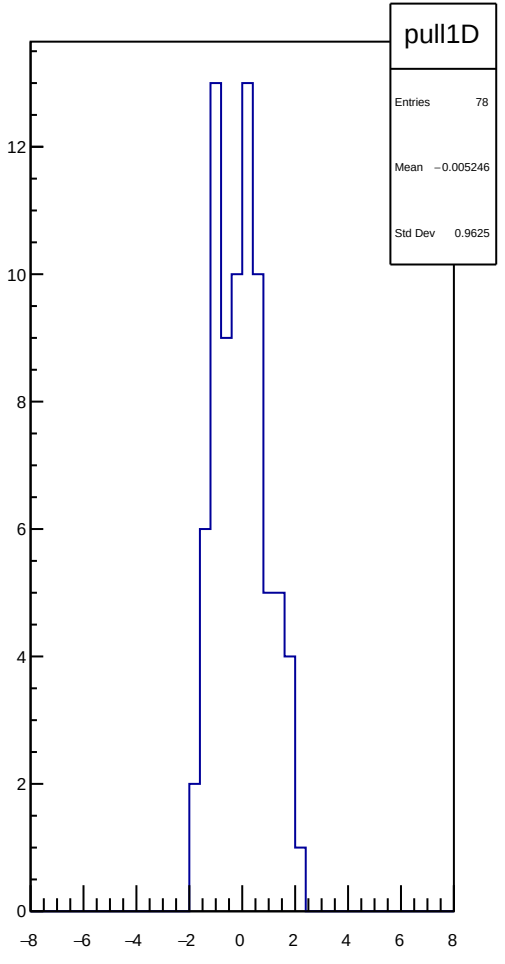

diff_bpm12Y_rms vs run
χ² / ndf 4.267e+04 / 77
p0 5745 ± 4.683
7000
6000
5000
4000
3000

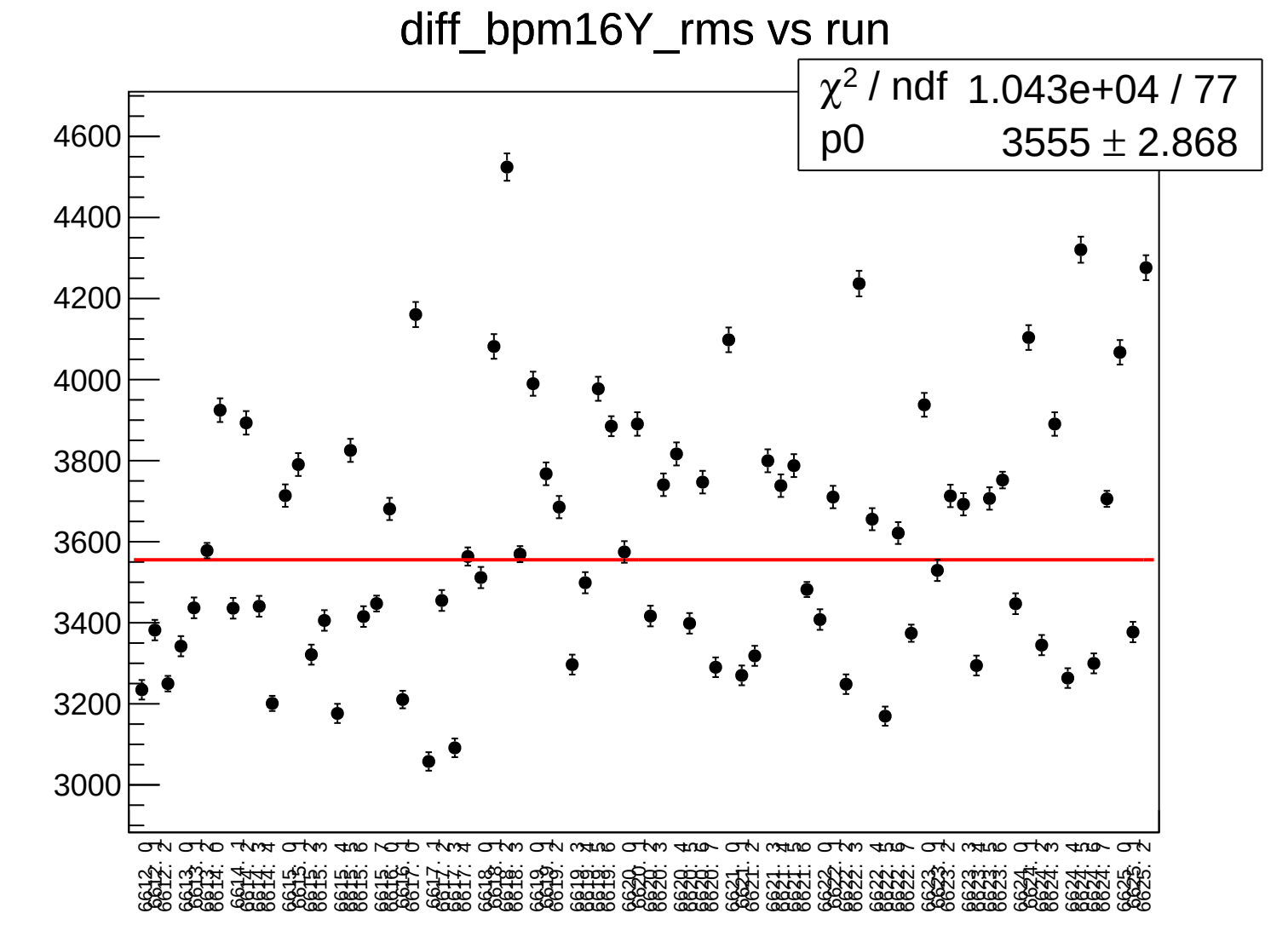

diff_bpm16X_mean vs run
χ^2 / ndf 91.47 / 77
p0 9.378 ± 5.883
pull
Entries 78
Mean 257.8
Std Dev 128.8

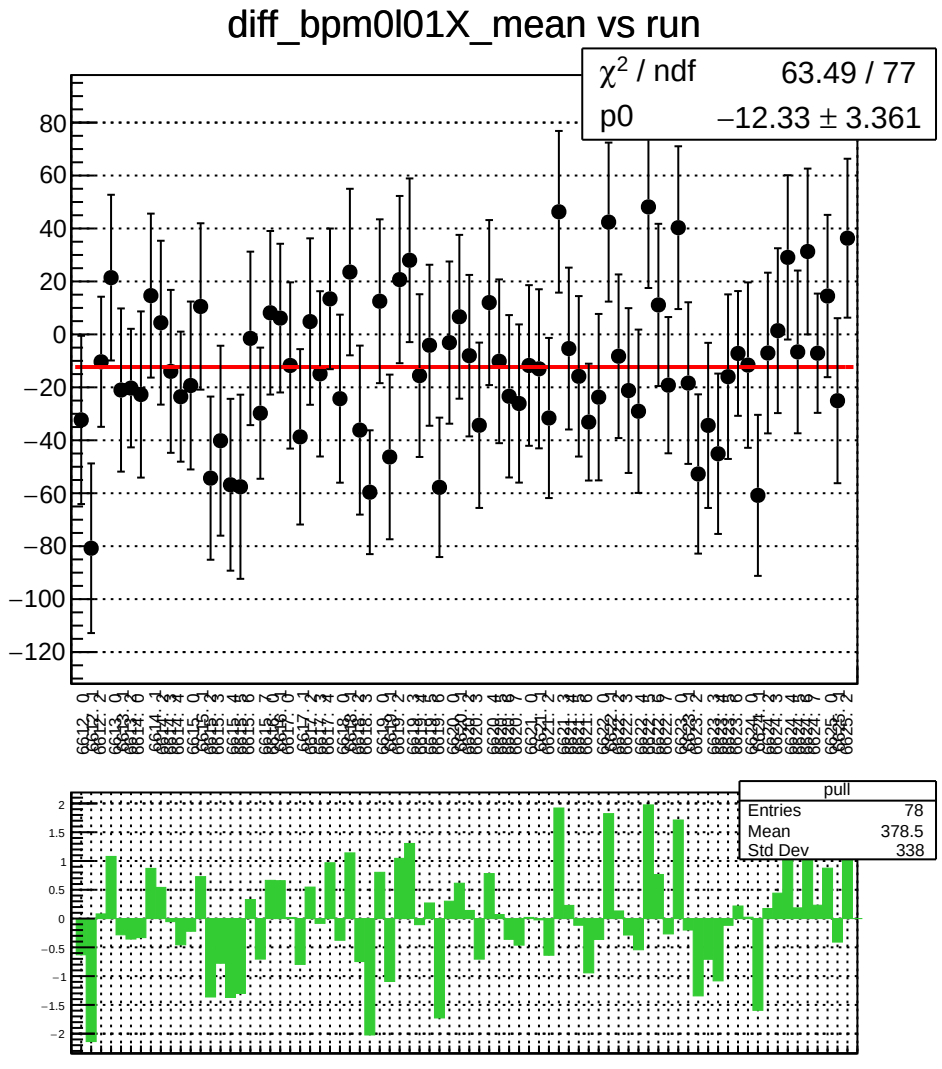

pull1D
Entries 78
Mean −0.003078
Std Dev 1.083

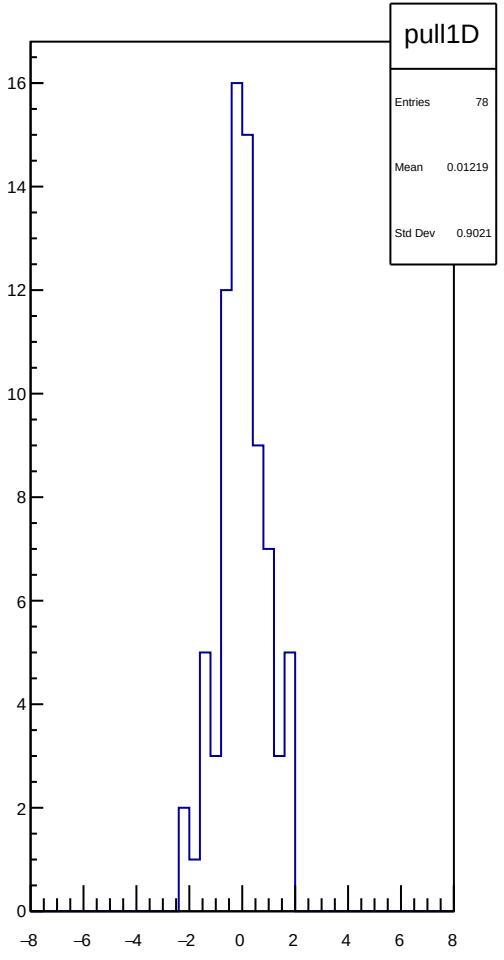

diff_bpm16X_rms vs run
χ² / ndf 1.466e+04 / 77
p0 5150 ± 4.16
7000
6500
6000
5500
5000
4500

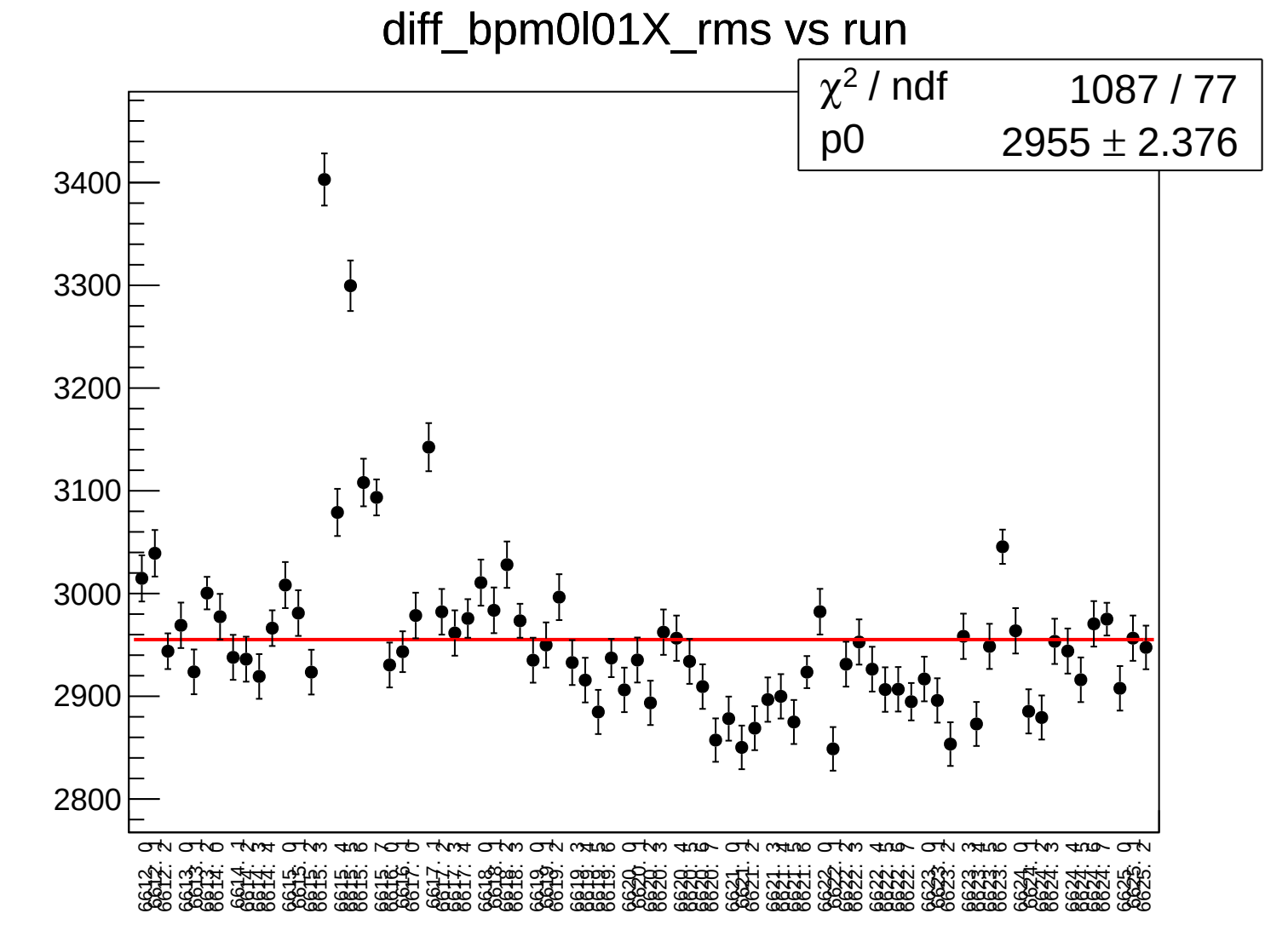

diff_bpm16Y_mean vs run
χ² / ndf 72.26 / 77
p0 −4.43 ± 4.055
100
50
0
−50
−100
pull
Entries 78
Mean 30.6
Std Dev 66.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

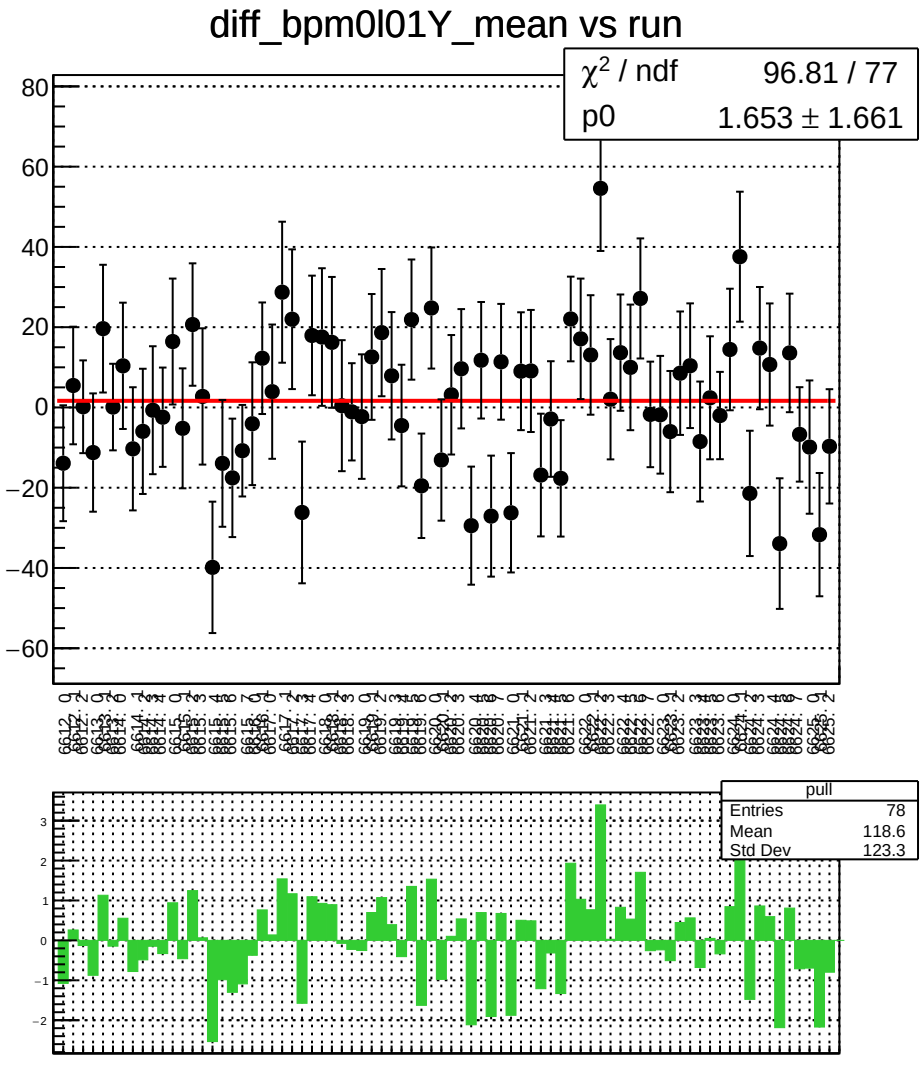

pull1D
Entries 78
Mean −0.005246
Std Dev 0.9625
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

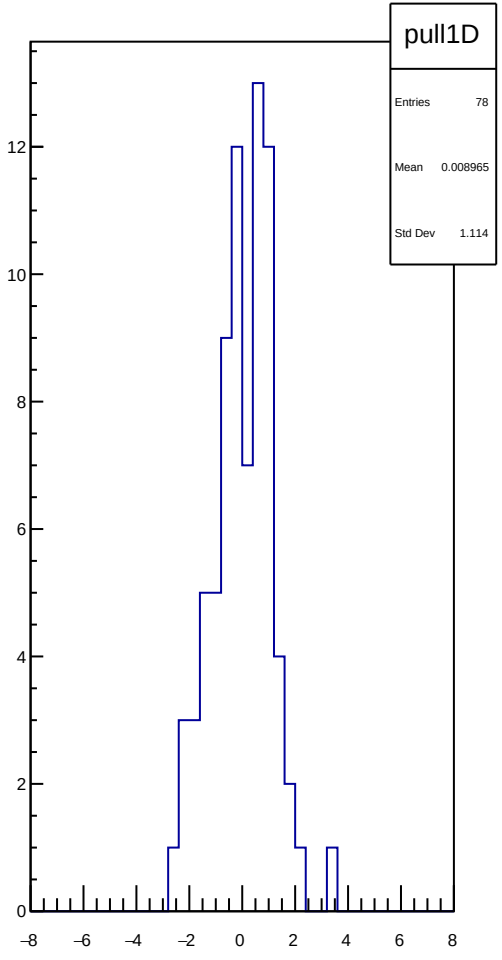

diff_bpm16Y_rms vs run
χ² / ndf 1.043e+04 / 77
p0 3555 ± 2.868
4600
4400
4200
4000
3800
3600
3400
3200
3000

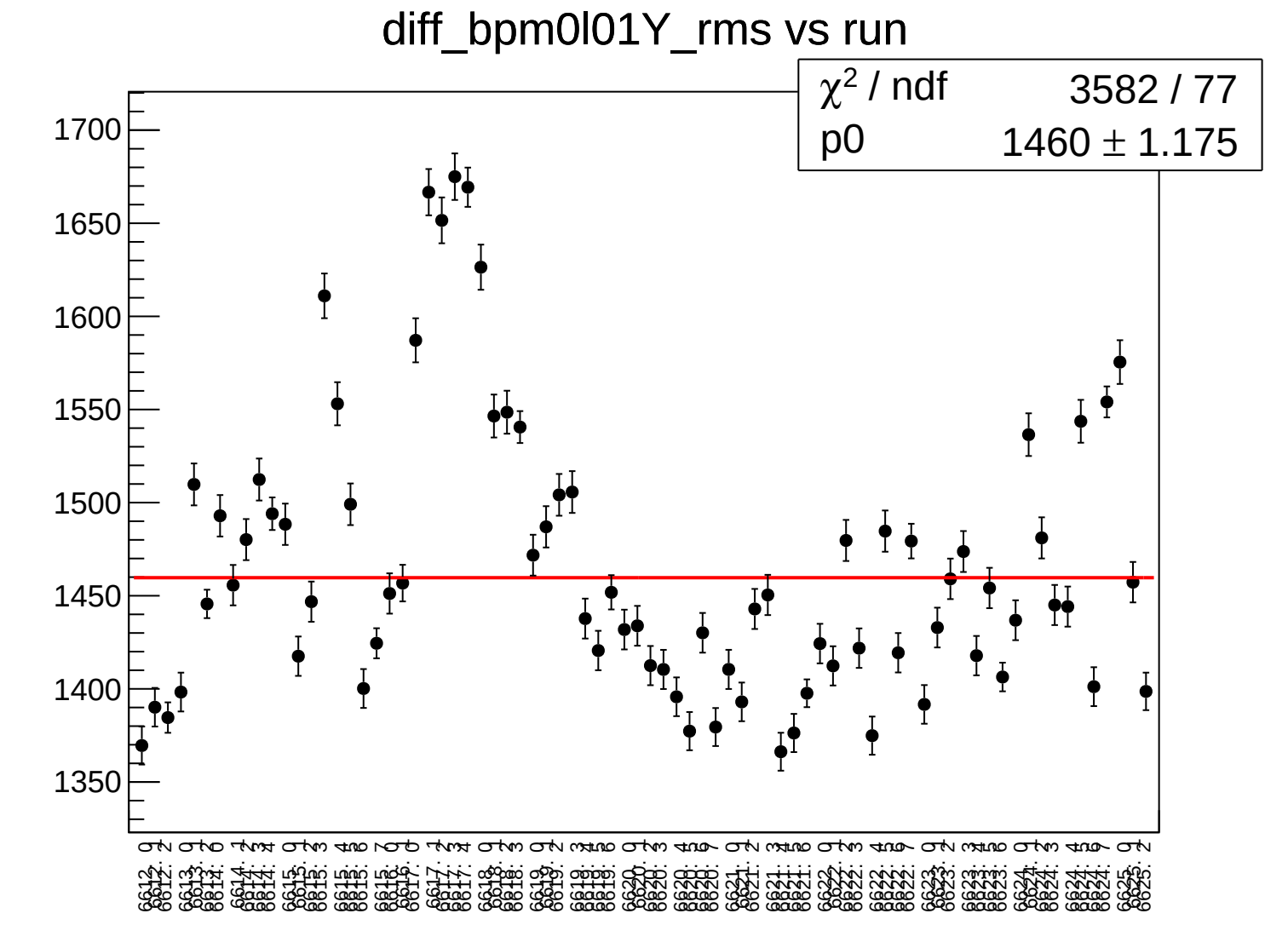

diff_bpm0l01X_mean vs run
χ² / ndf 63.49 / 77
p0 −12.33 ± 3.361
pull
Entries 78
Mean 378.5
Std Dev 338

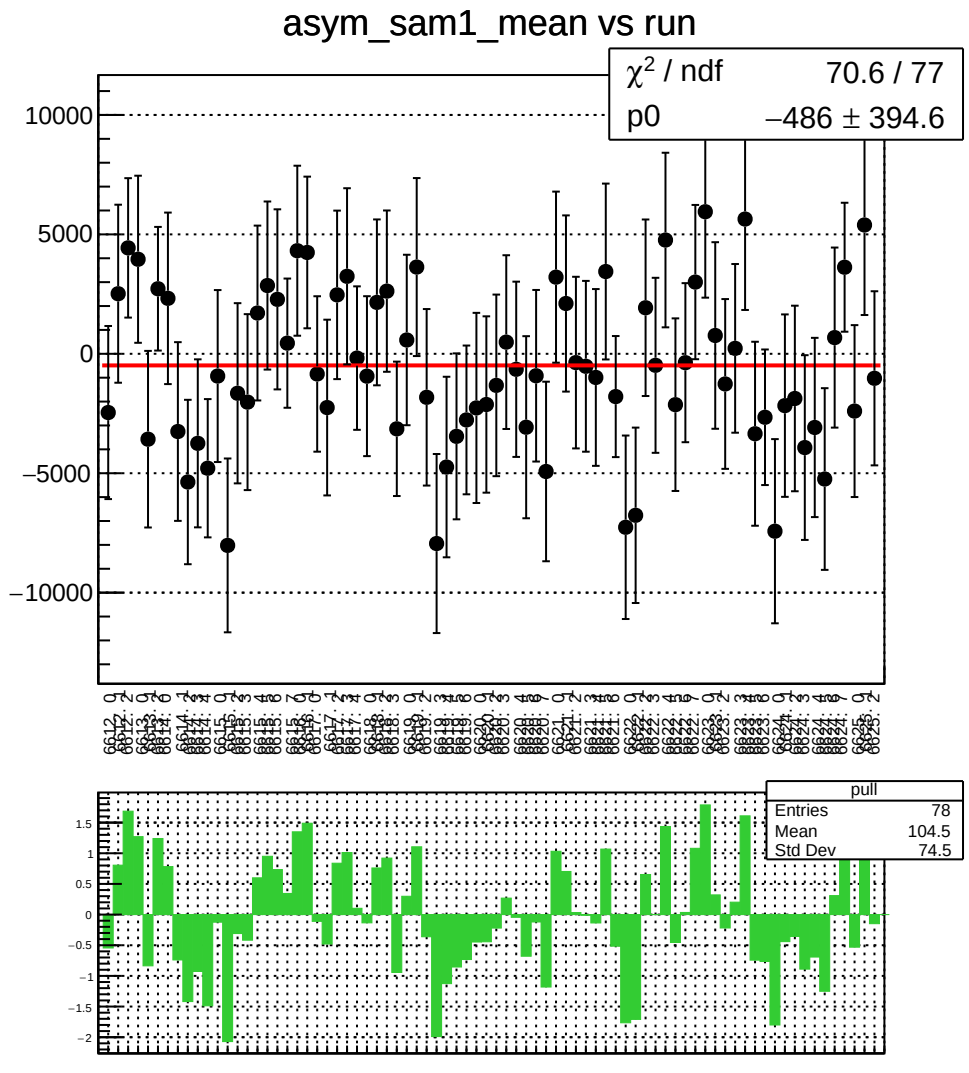

pull1D
Entries 78
Mean 0.01219
Std Dev 0.9021

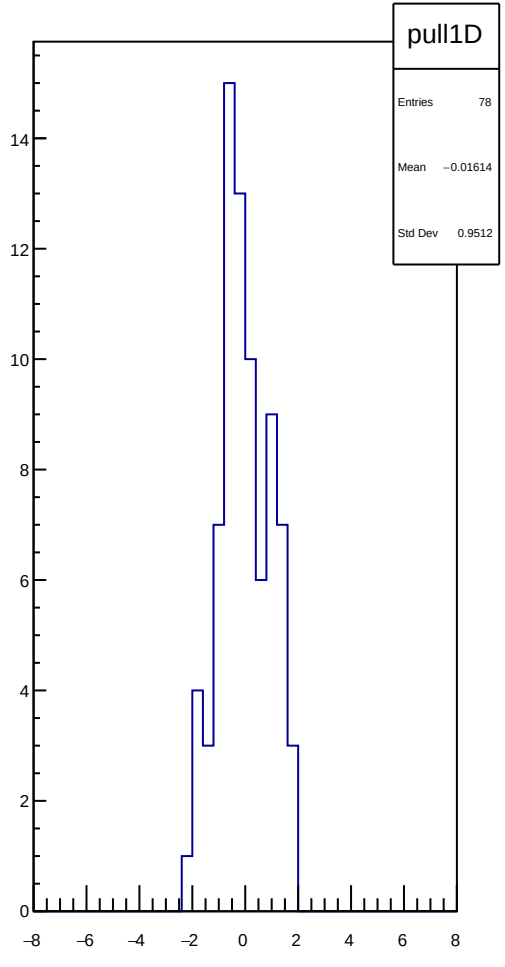

diff_bpm0l01X_rms vs run
χ² / ndf 1087 / 77
p0 2955 ± 2.376
3400
3300
3200
3100
3000
2900
2800

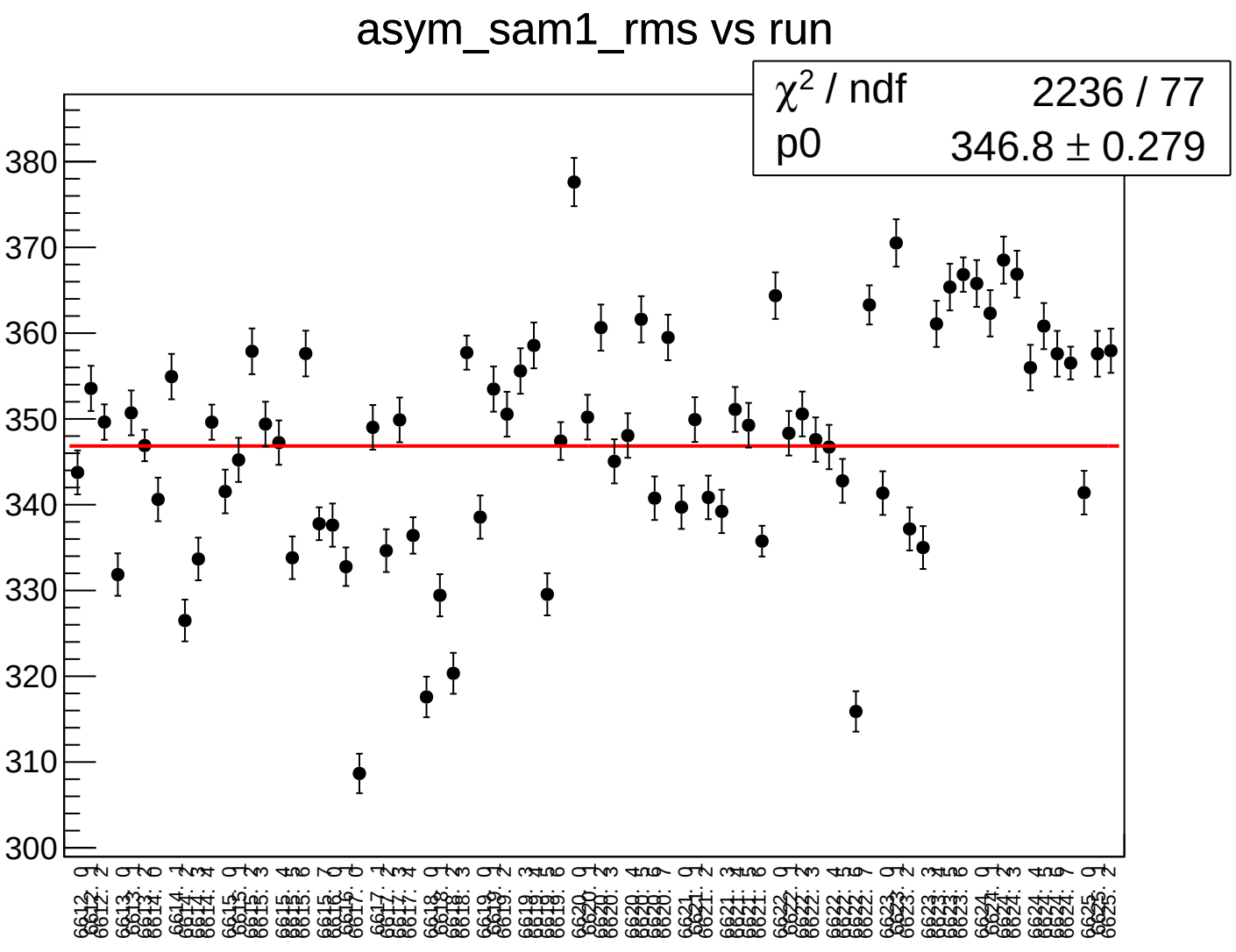

diff_bpm0l01Y_mean vs run
χ² / ndf 96.81 / 77
p0 1.653 ± 1.661
pull
Entries 78
Mean 118.6
Std Dev 123.3

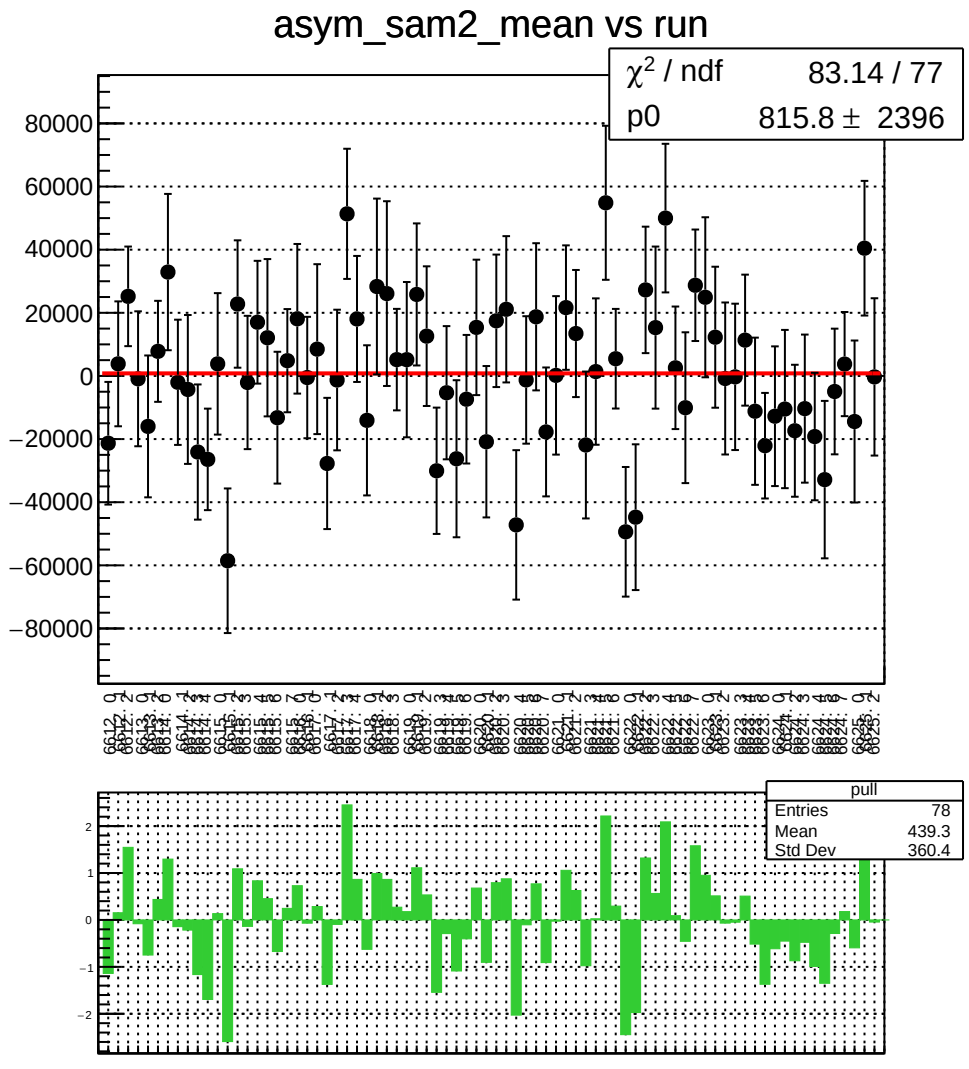

pull1D
Entries 78
Mean 0.008965
Std Dev 1.114

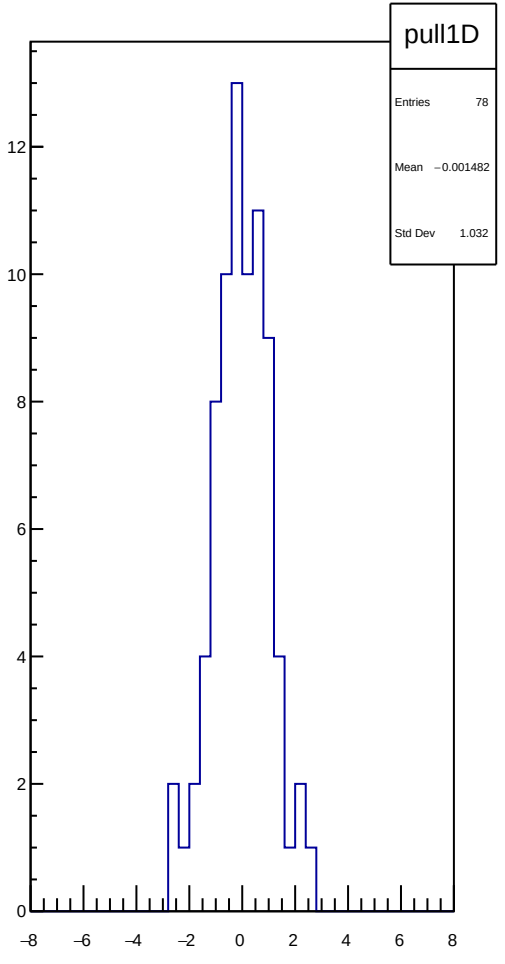

diff_bpm0l01Y_rms vs run
χ² / ndf 3582 / 77
p0 1460 ± 1.175
1700
1650
1600
1550
1500
1450
1400
1350

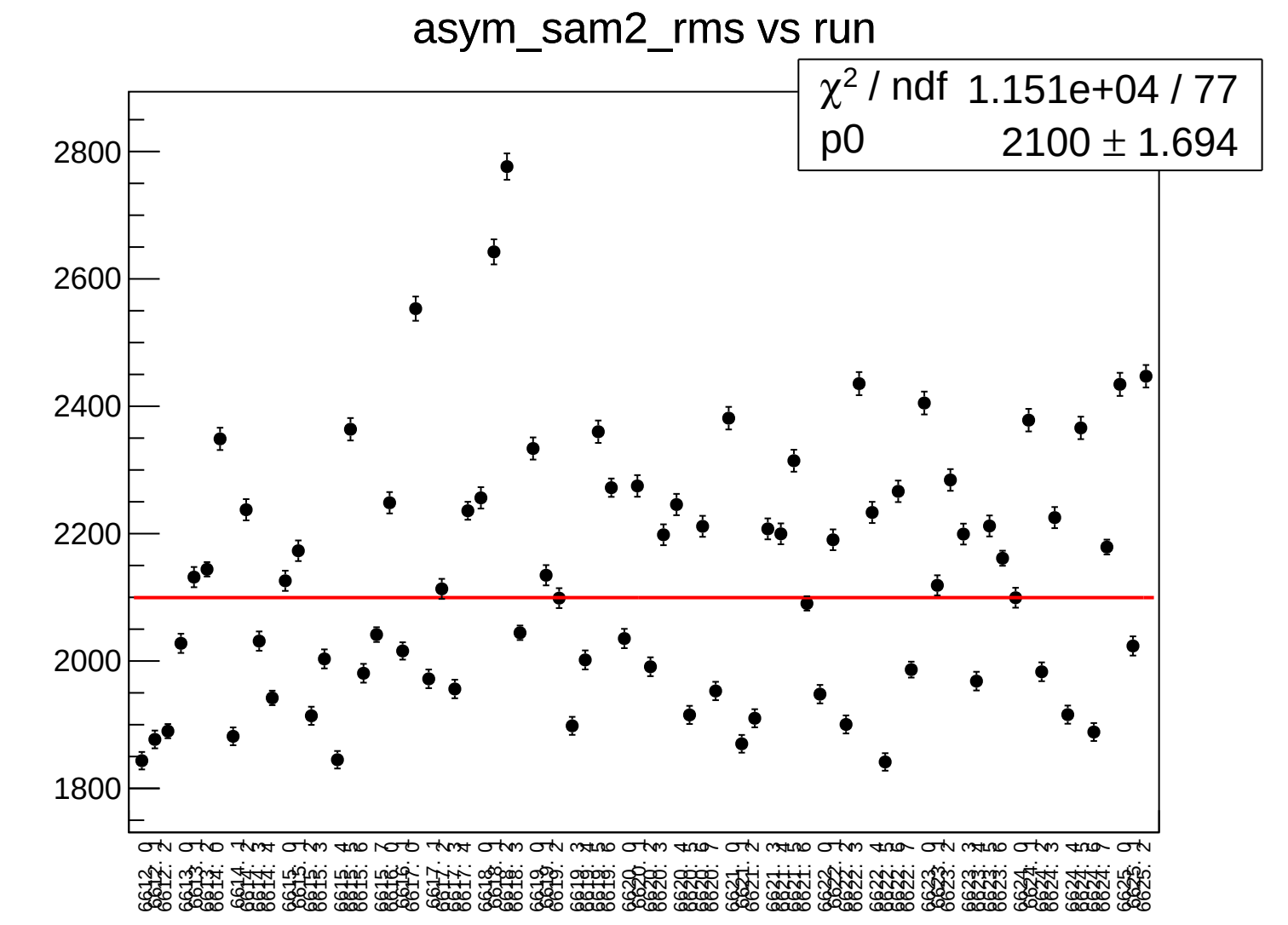

asym_sam1_mean vs run
χ² / ndf 70.6 / 77
p0 −486 ± 394.6
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 104.5
Std Dev 74.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

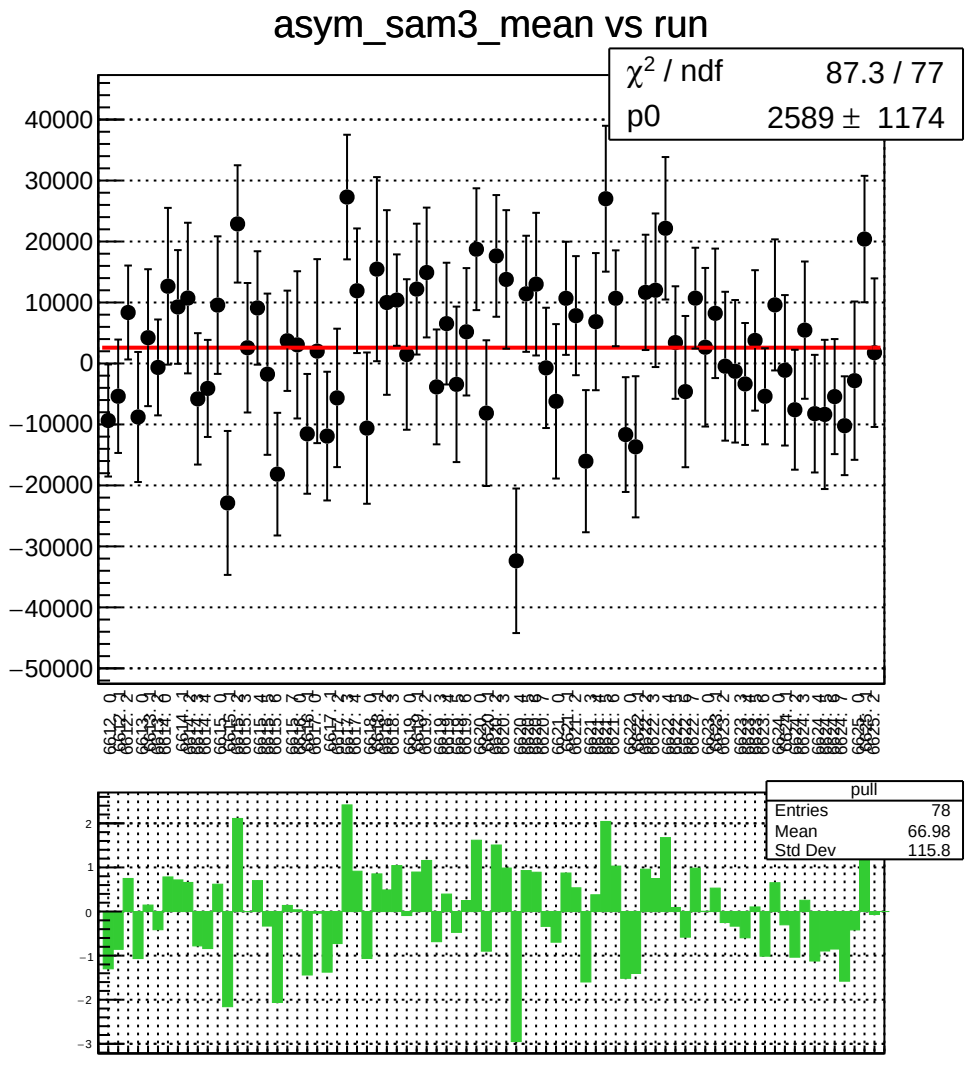

pull1D
Entries 78
Mean −0.01614
Std Dev 0.9512
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

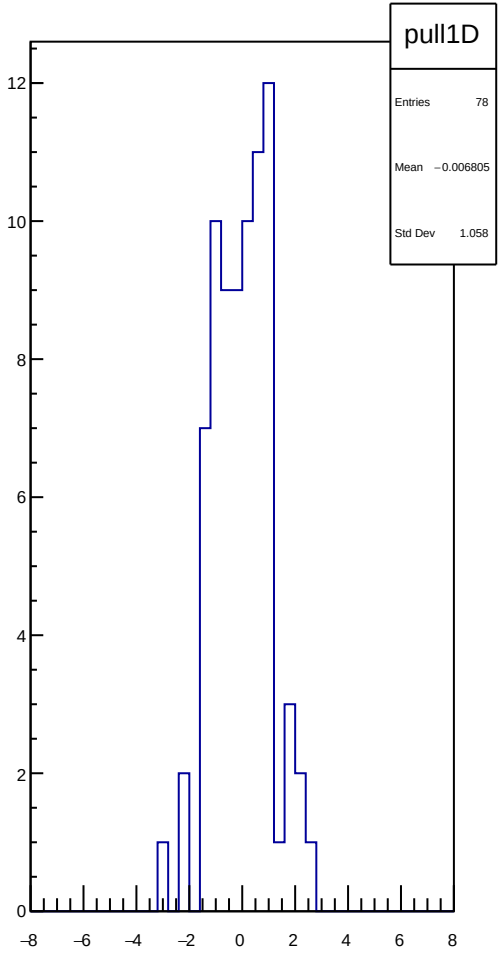

asym_sam1_rms vs run
χ^2 / ndf 2236 / 77
p0 346.8 ± 0.279
380
370
360
350
340
330
320
310
300

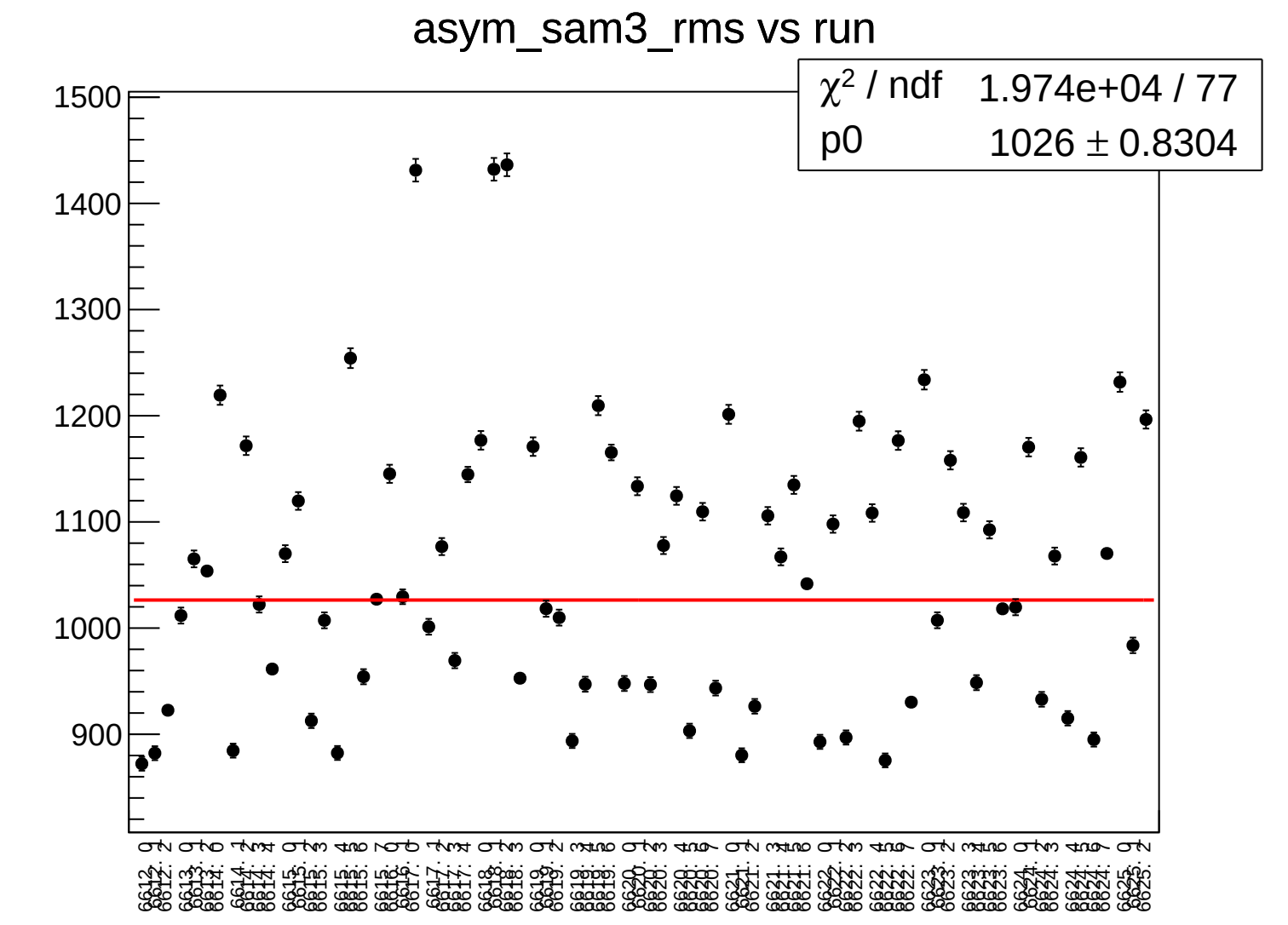

asym_sam2_mean vs run
χ² / ndf 83.14 / 77
p0 815.8 ± 2396
pull
Entries 78
Mean 439.3
Std Dev 360.4

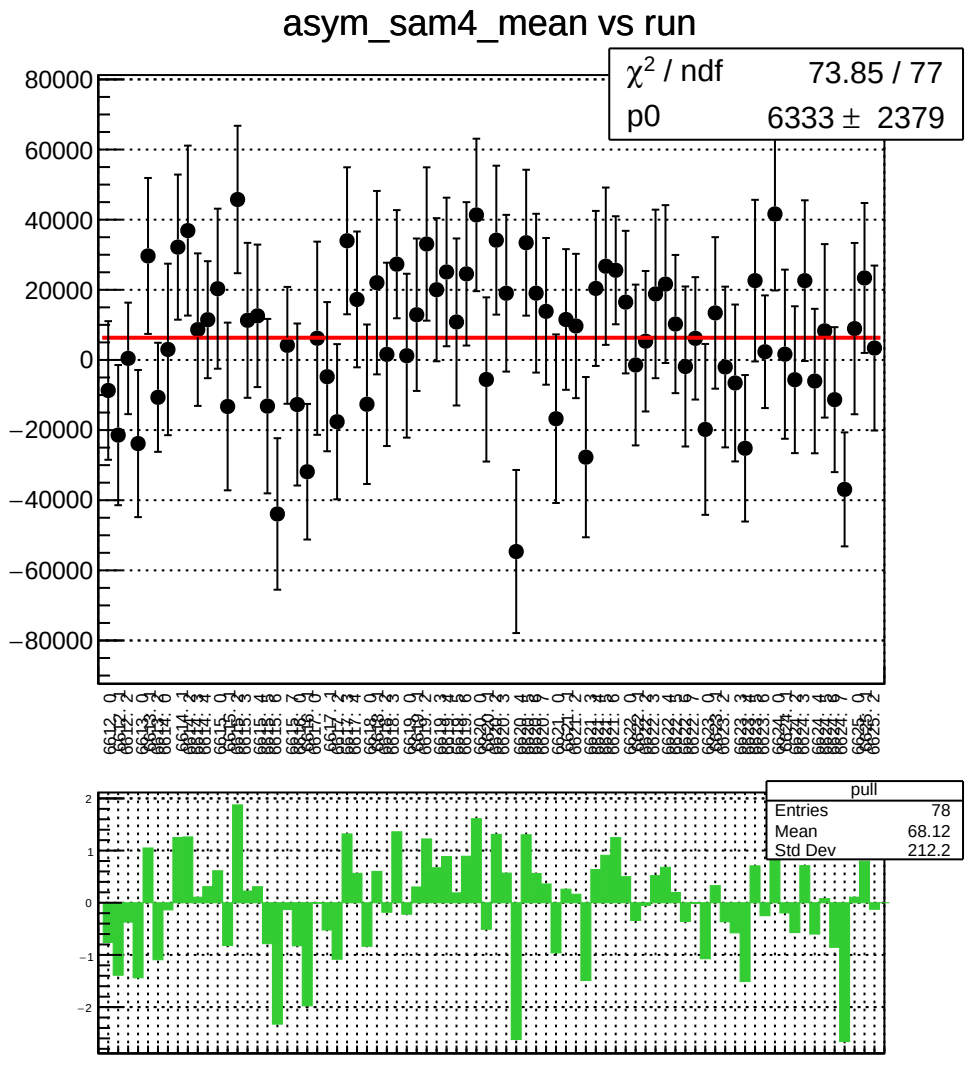

pull1D
Entries 78
Mean −0.001482
Std Dev 1.032

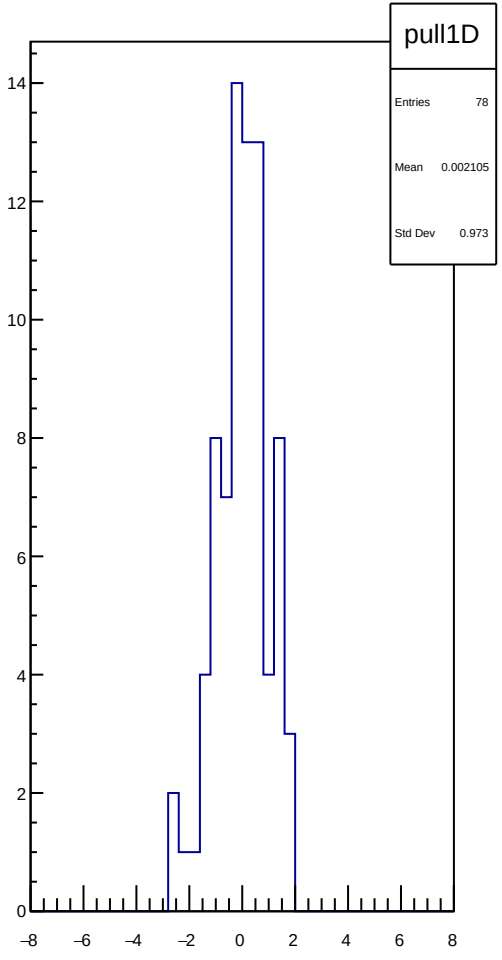

asym_sam2_rms vs run
χ^2 / ndf 1.151e+04 / 77
p0 2100 ± 1.694
2800
2600
2400
2200
2000
1800

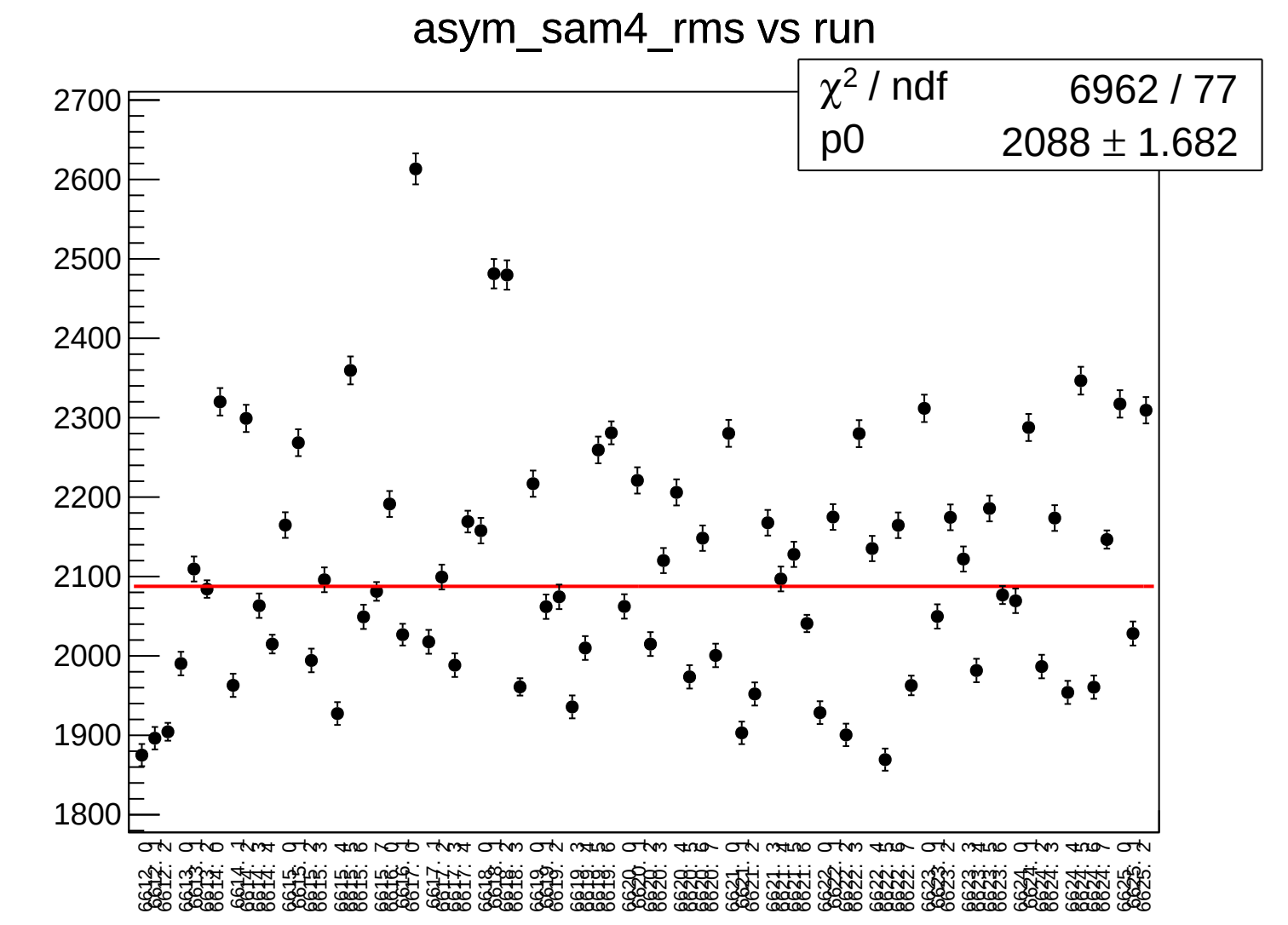

asym_sam3_mean vs run
χ² / ndf 87.3 / 77
p0 2589 ± 1174
pull
Entries 78
Mean 66.98
Std Dev 115.8

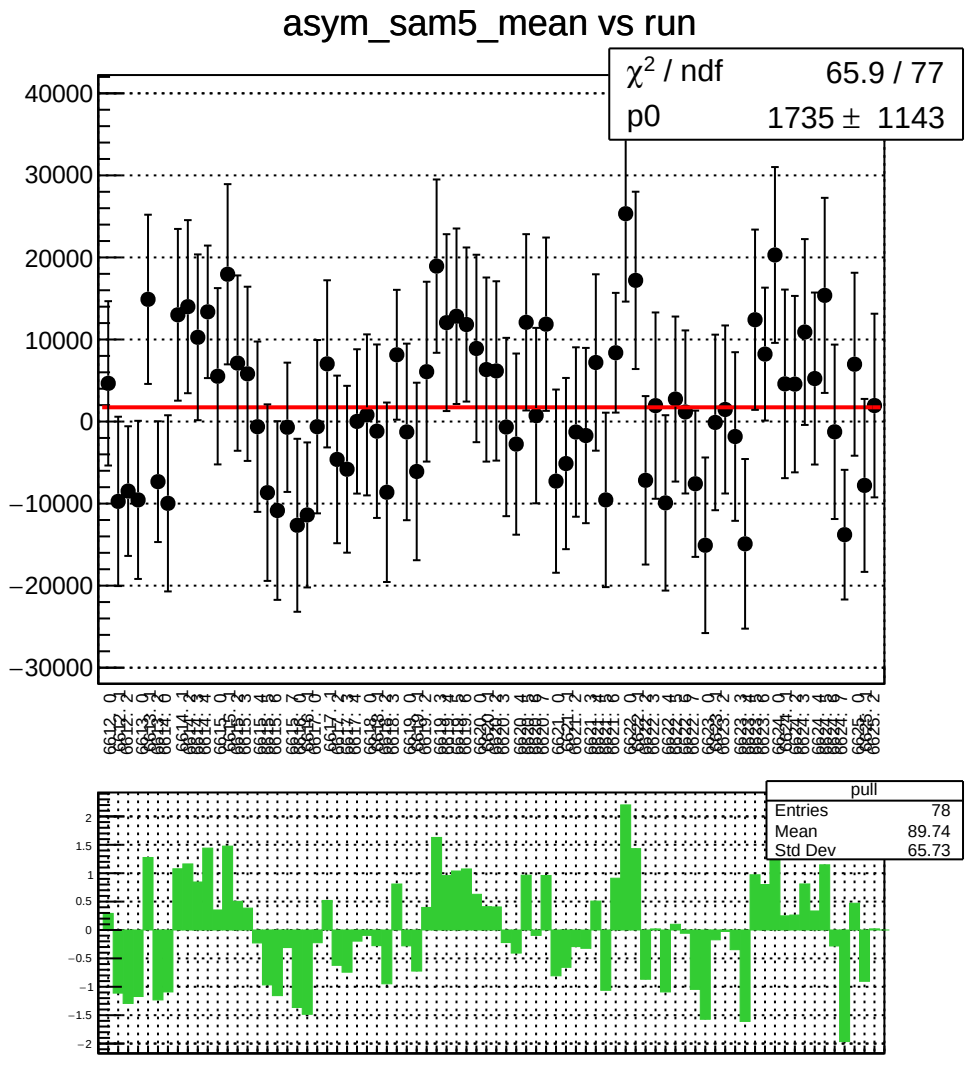

pull1D
Entries 78
Mean −0.006805
Std Dev 1.058

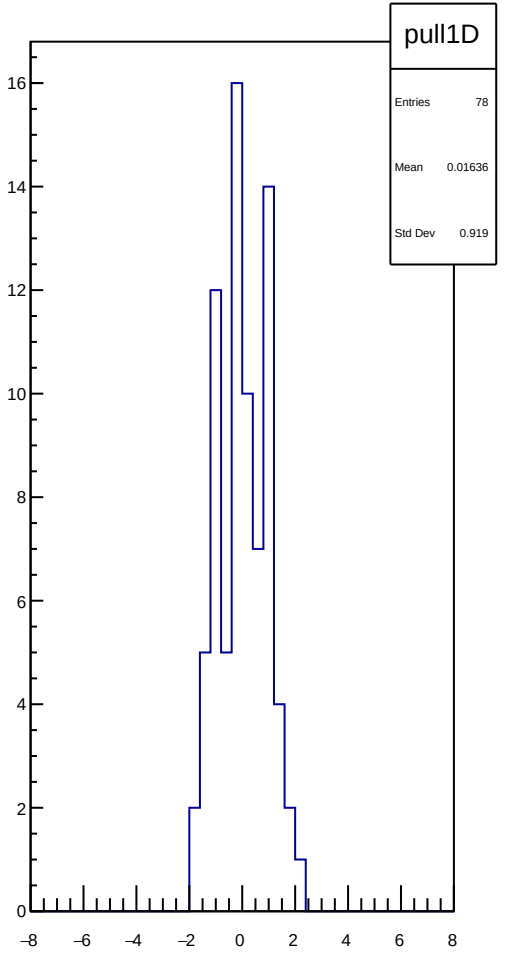

asym_sam3_rms vs run
χ² / ndf 1.974e+04 / 77
p0 1026 ± 0.8304
1500
1400
1300
1200
1100
1000
900

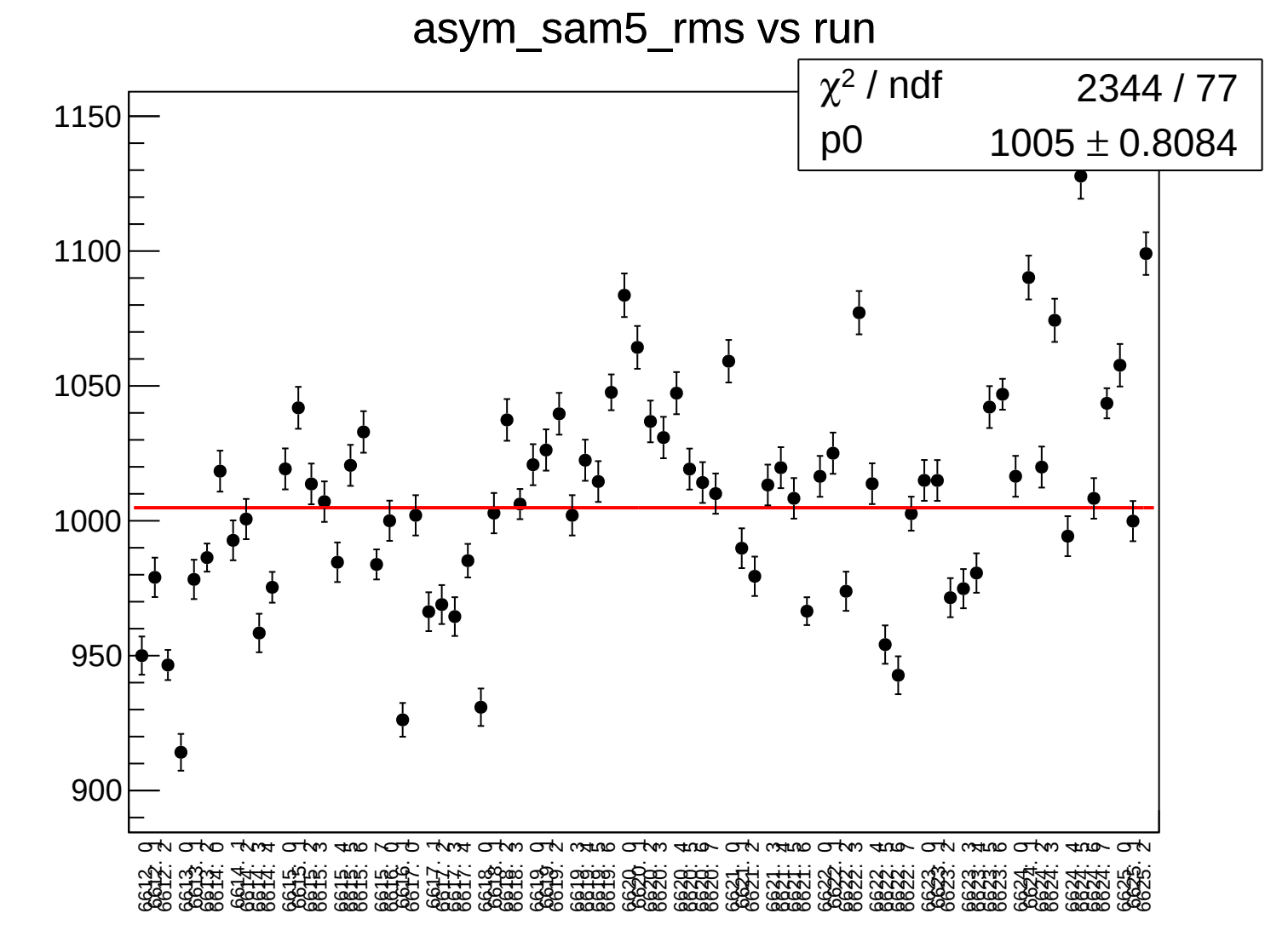

asym_sam4_mean vs run
χ² / ndf 73.85 / 77
p0 6333 ± 2379
pull
Entries 78
Mean 68.12
Std Dev 212.2

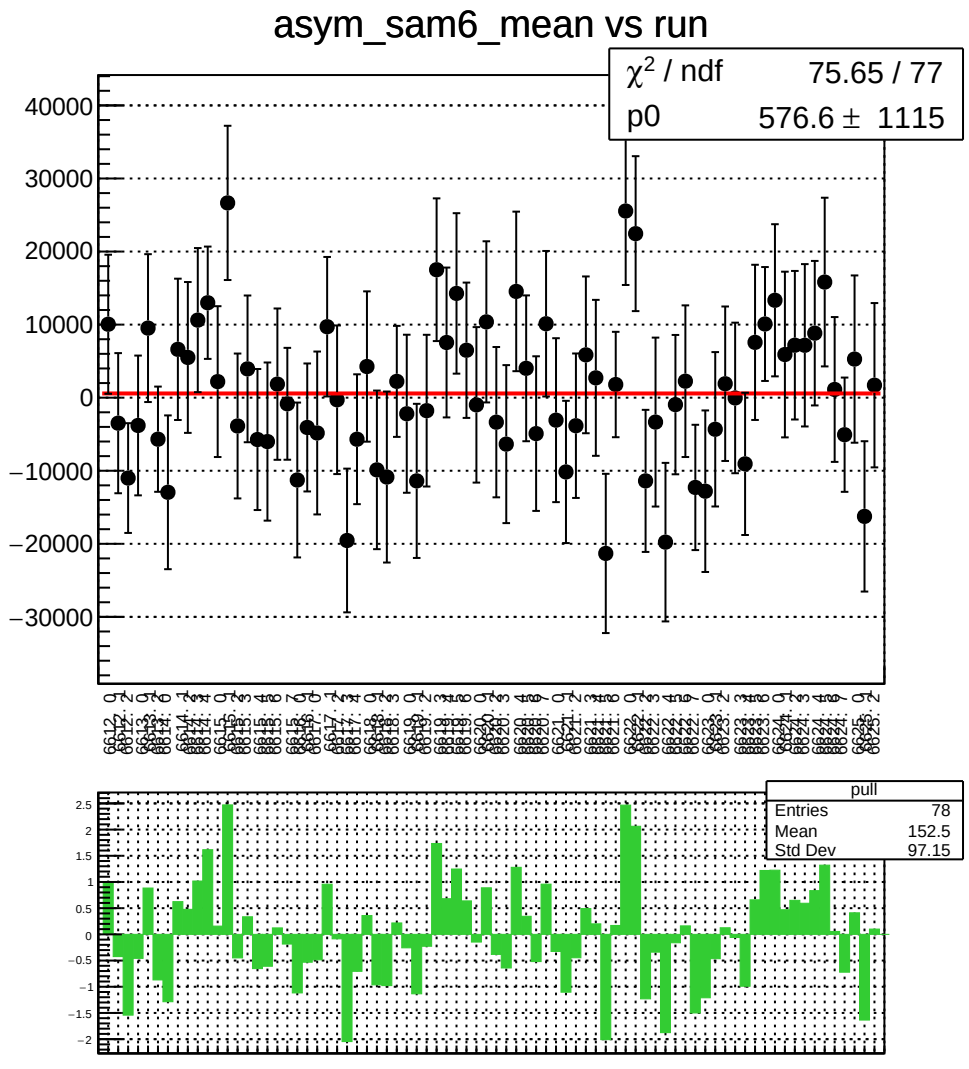

pull1D
Entries 78
Mean 0.002105
Std Dev 0.973

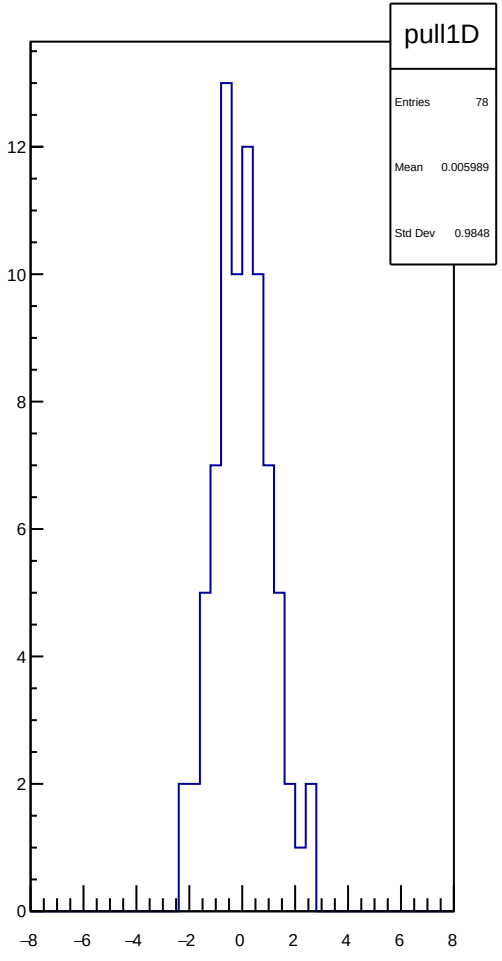

asym_sam4_rms vs run
χ² / ndf 6962 / 77
p0 2088 ± 1.682
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800

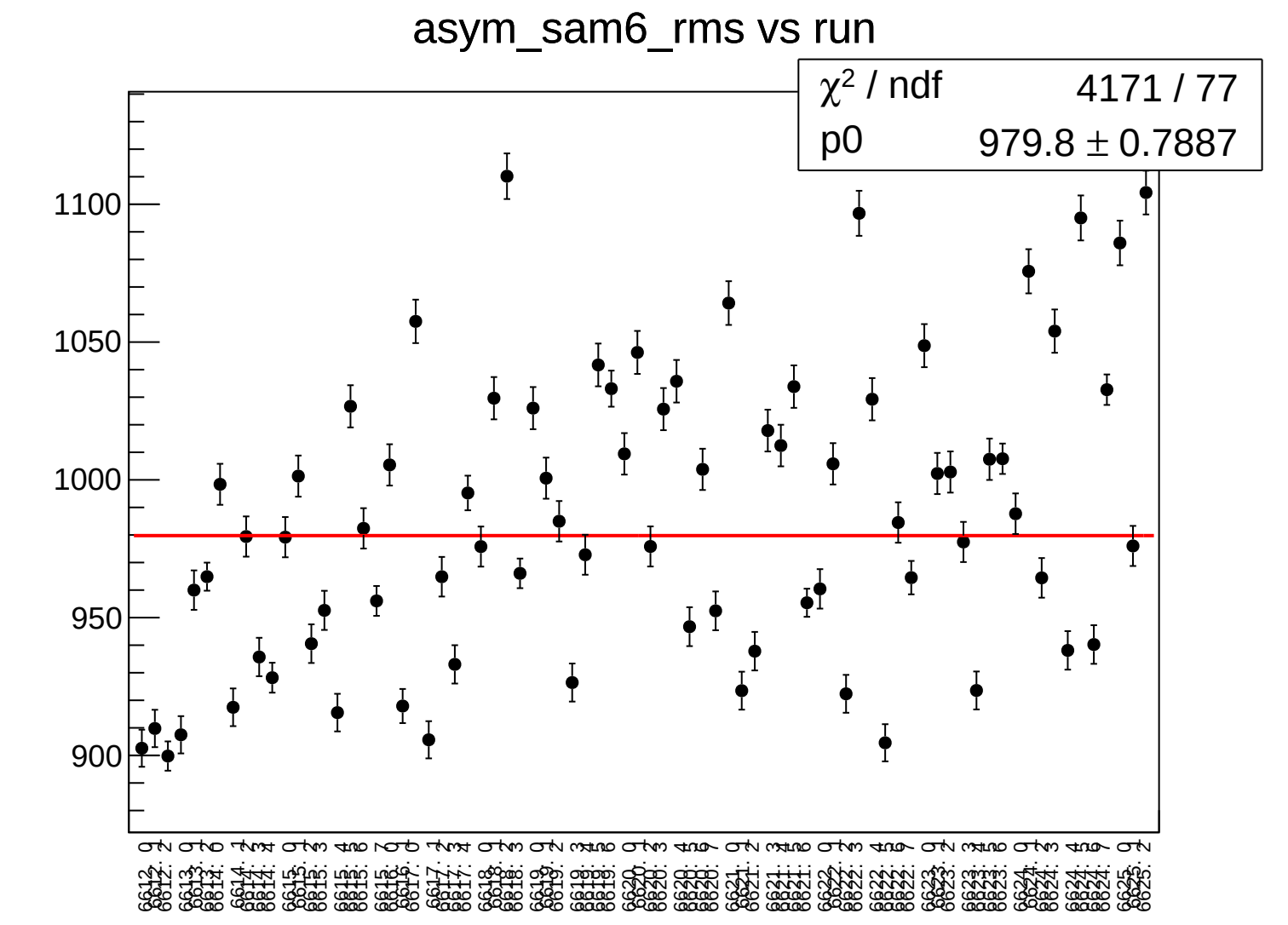

asym_sam5_mean vs run
χ² / ndf 65.9 / 77
p0 1735 ± 1143
pull
Entries 78
Mean 89.74
Std Dev 65.73

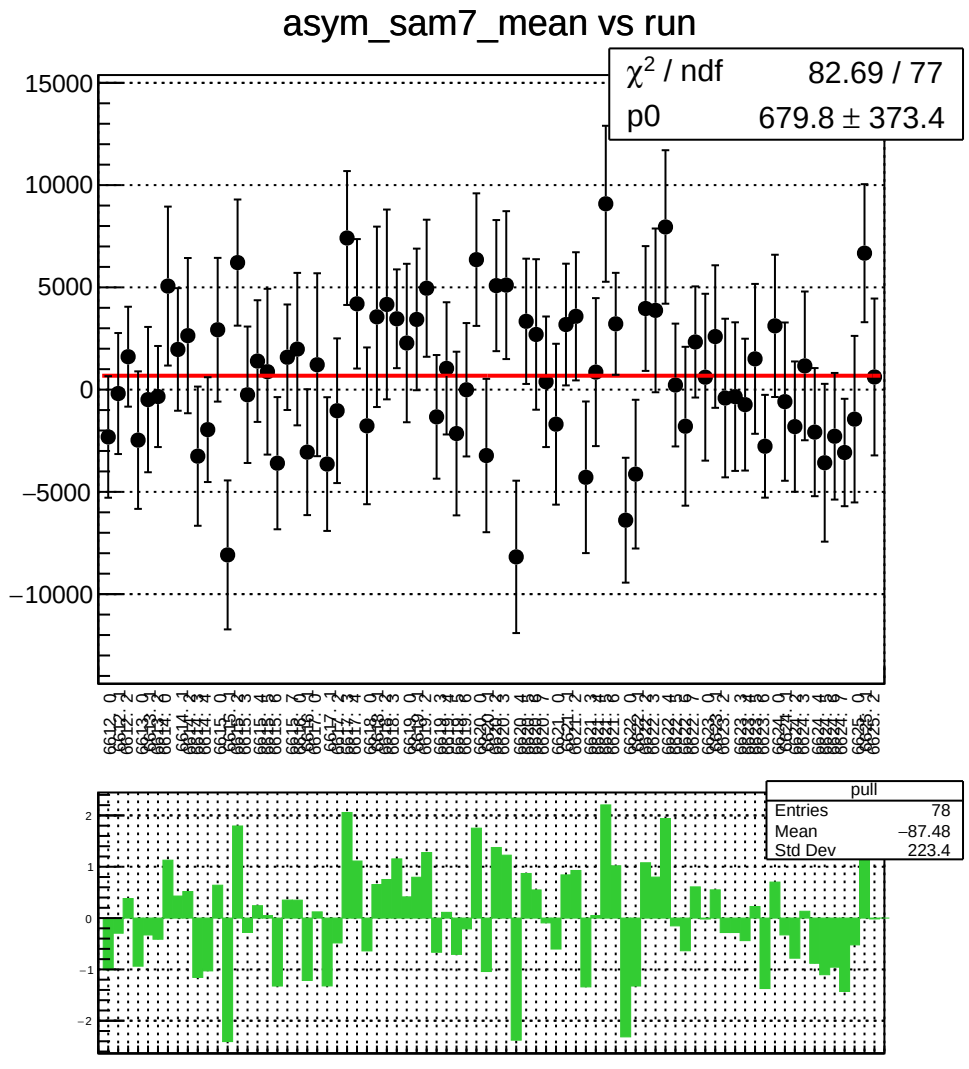

pull1D
Entries 78
Mean 0.01636
Std Dev 0.919

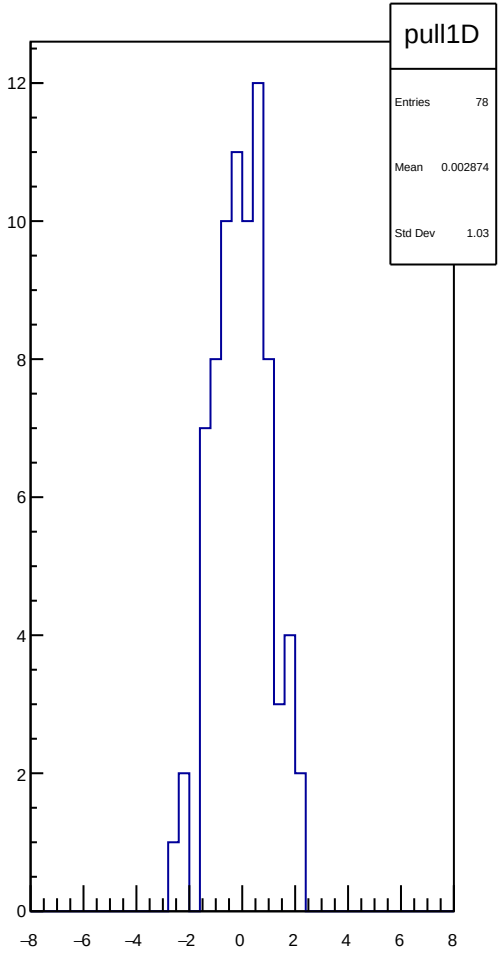

asym_sam5_rms vs run
χ² / ndf 2344 / 77
p0 1005 ± 0.8084
1150
1100
1050
1000
950
900

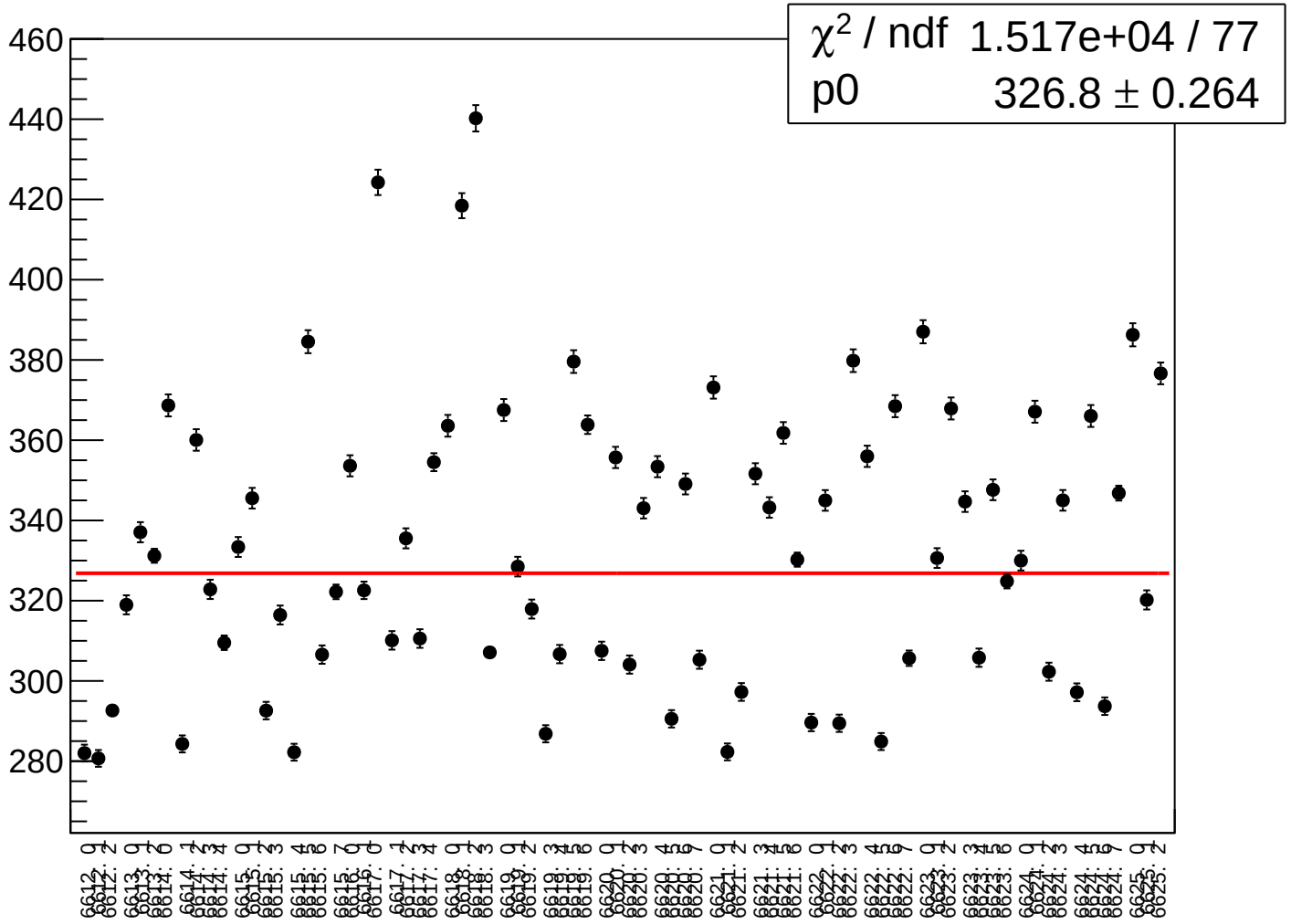

asym_sam6_mean vs run
χ² / ndf 75.65 / 77
p0 576.6 ± 1115
pull
Entries 78
Mean 152.5
Std Dev 97.15

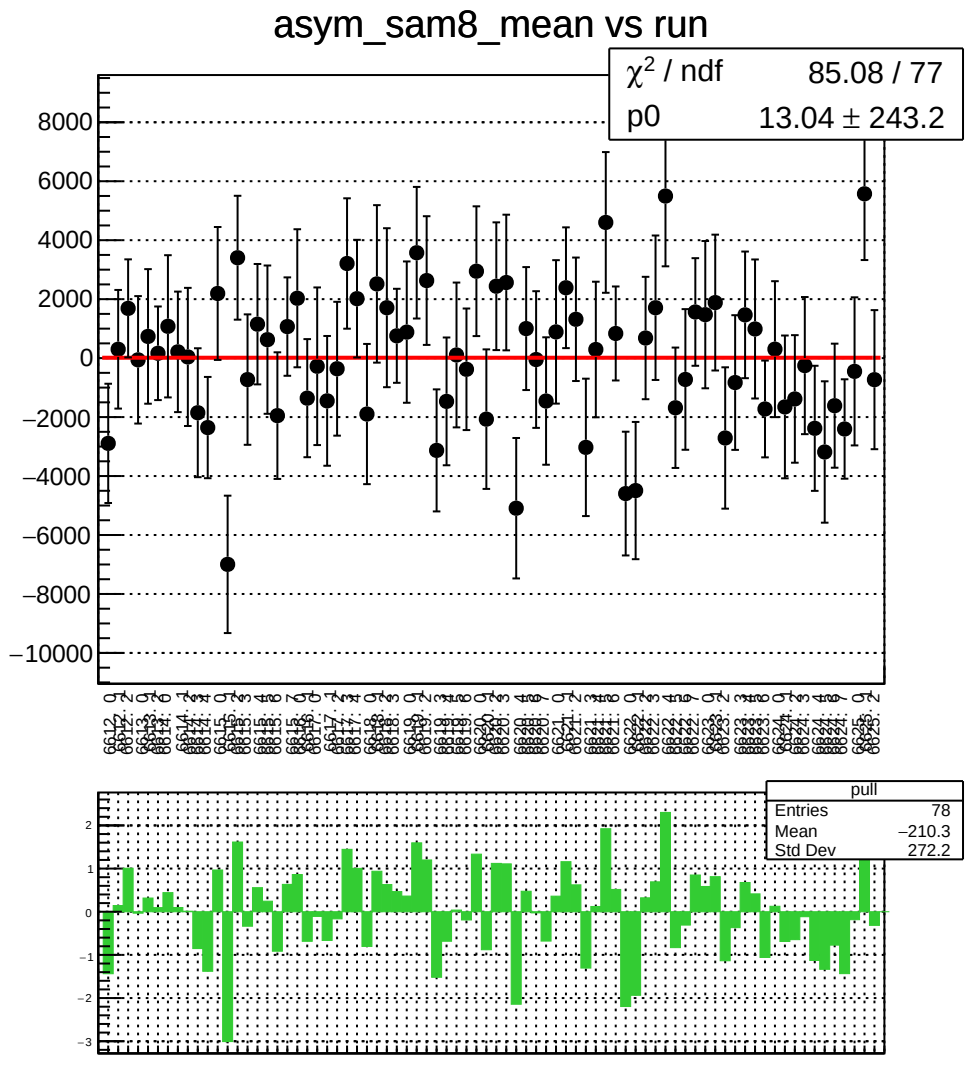

pull1D
Entries 78
Mean 0.005989
Std Dev 0.9848

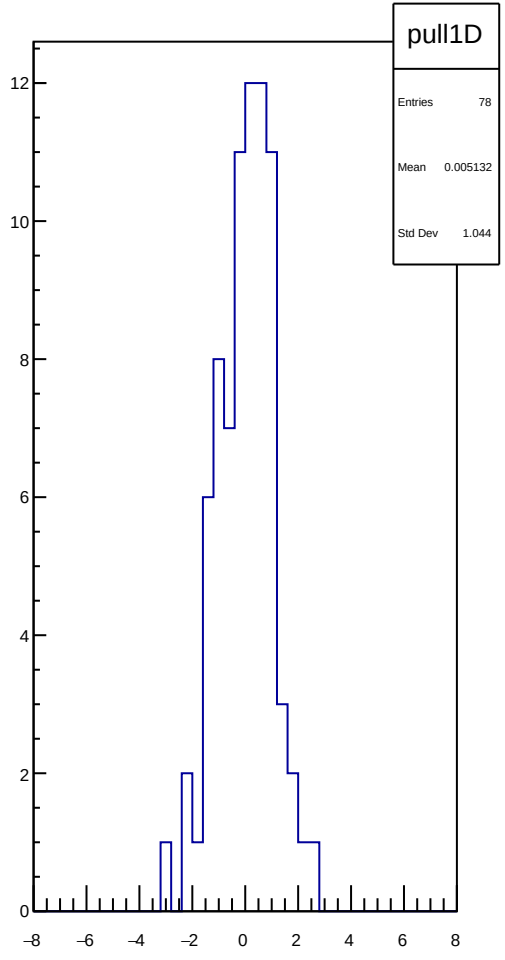

asym_sam6_rms vs run
χ² / ndf 4171 / 77
p0 979.8 ± 0.7887
1100
1050
1000
950
900

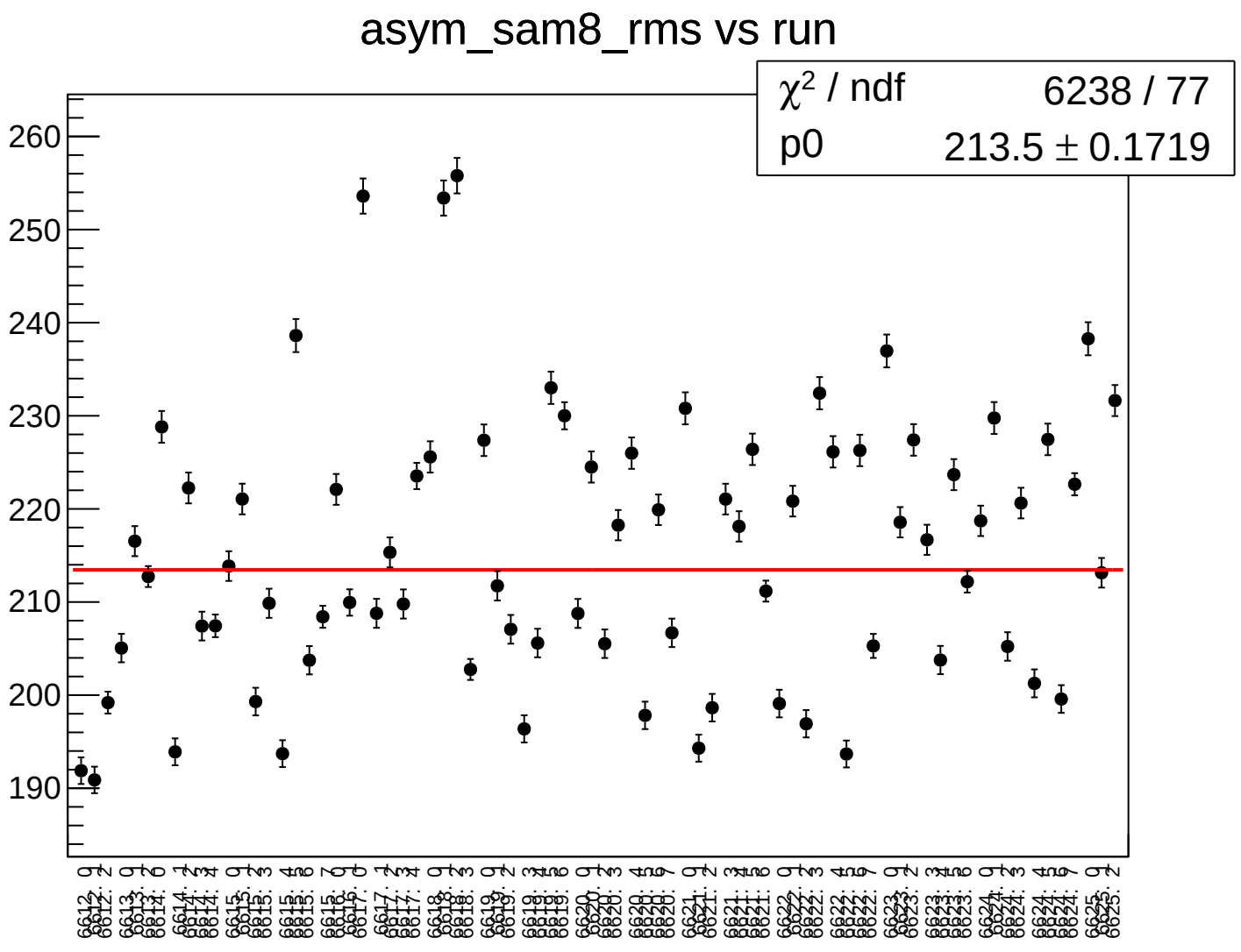

asym_sam7_mean vs run
χ² / ndf 82.69 / 77
p0 679.8 ± 373.4
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −87.48
Std Dev 223.4
2
1
0
−1
−2

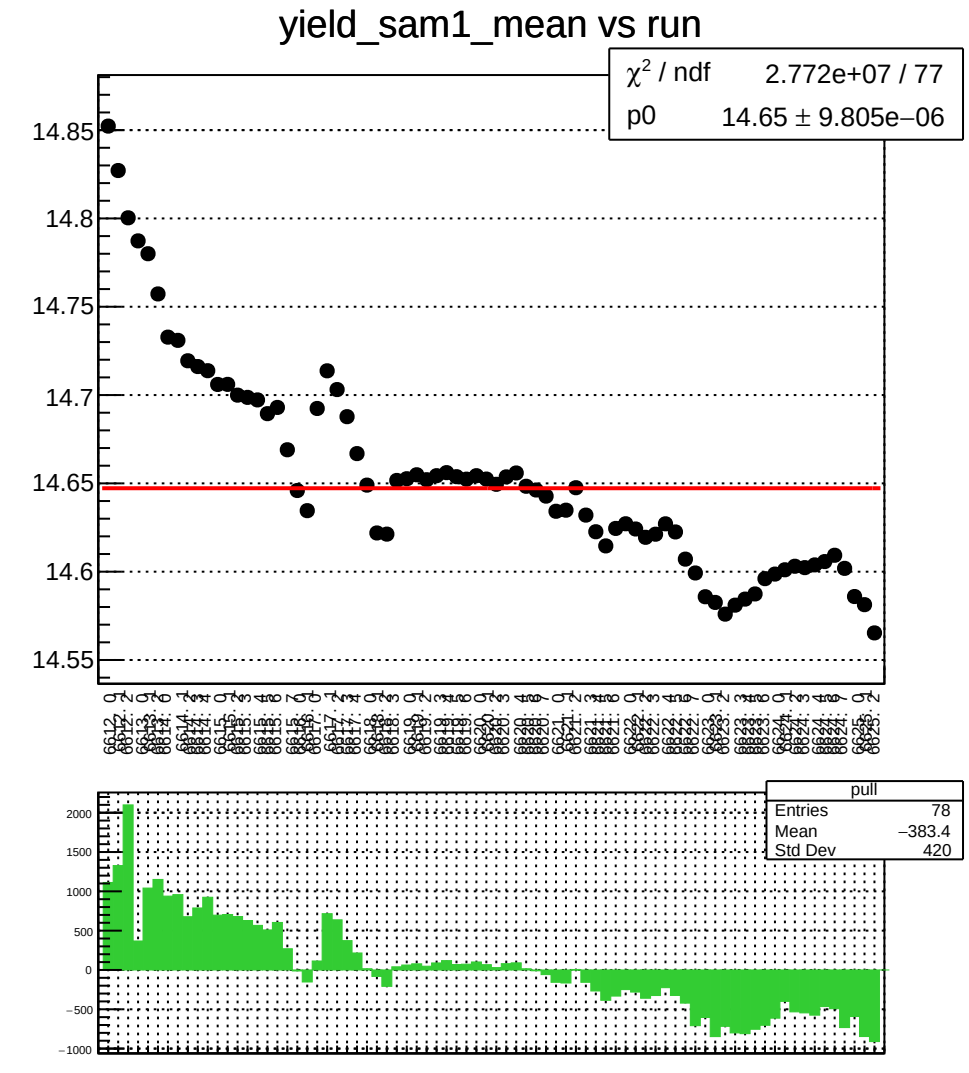

pull1D
Entries 78
Mean 0.002874
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

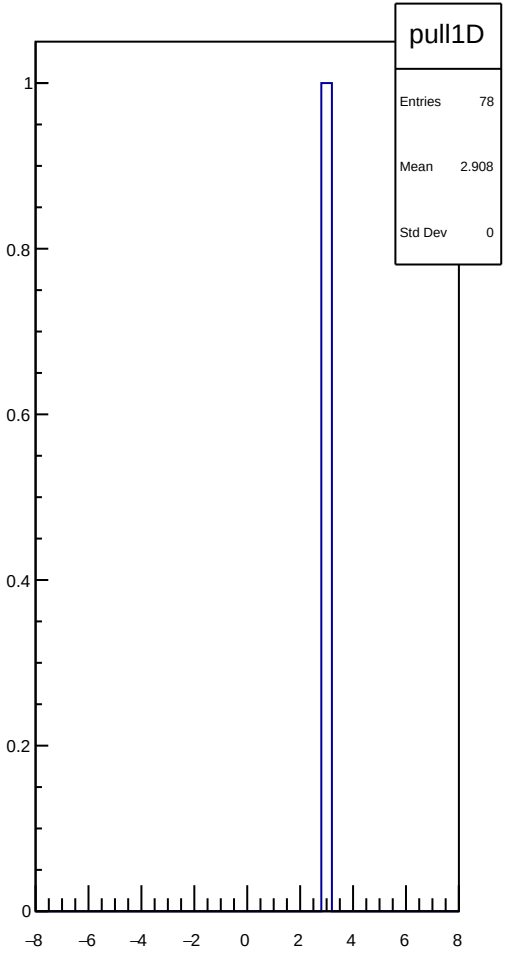

asym_sam7_rms vs run
χ² / ndf 1.517e+04 / 77
p0 326.8 ± 0.264
460
440
420
400
380
360
340
320
300
280

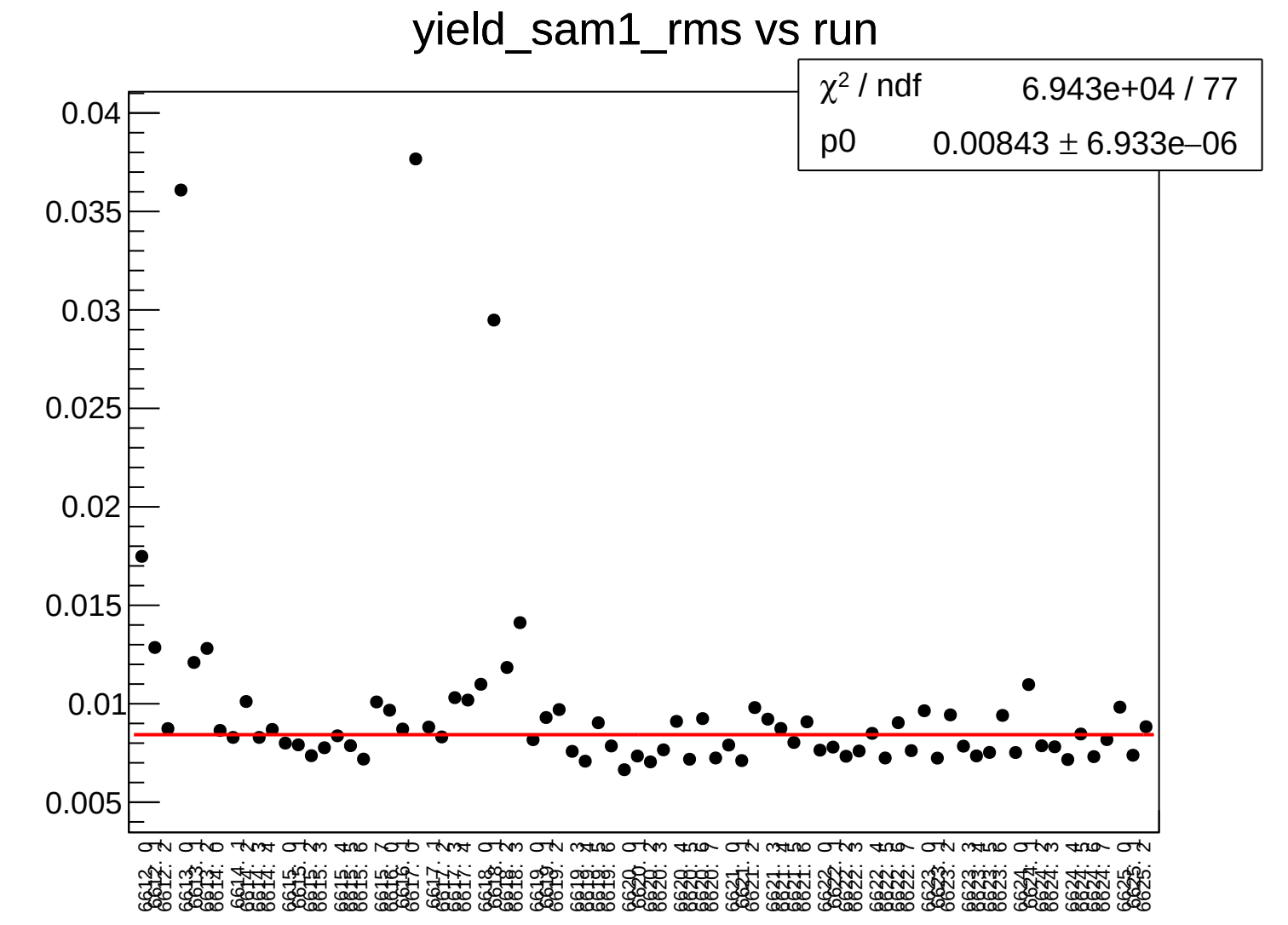

asym_sam8_mean vs run
χ² / ndf 85.08 / 77
p0 13.04 ± 243.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 78
Mean −210.3
Std Dev 272.2
2
1
0
−1
−2
−3

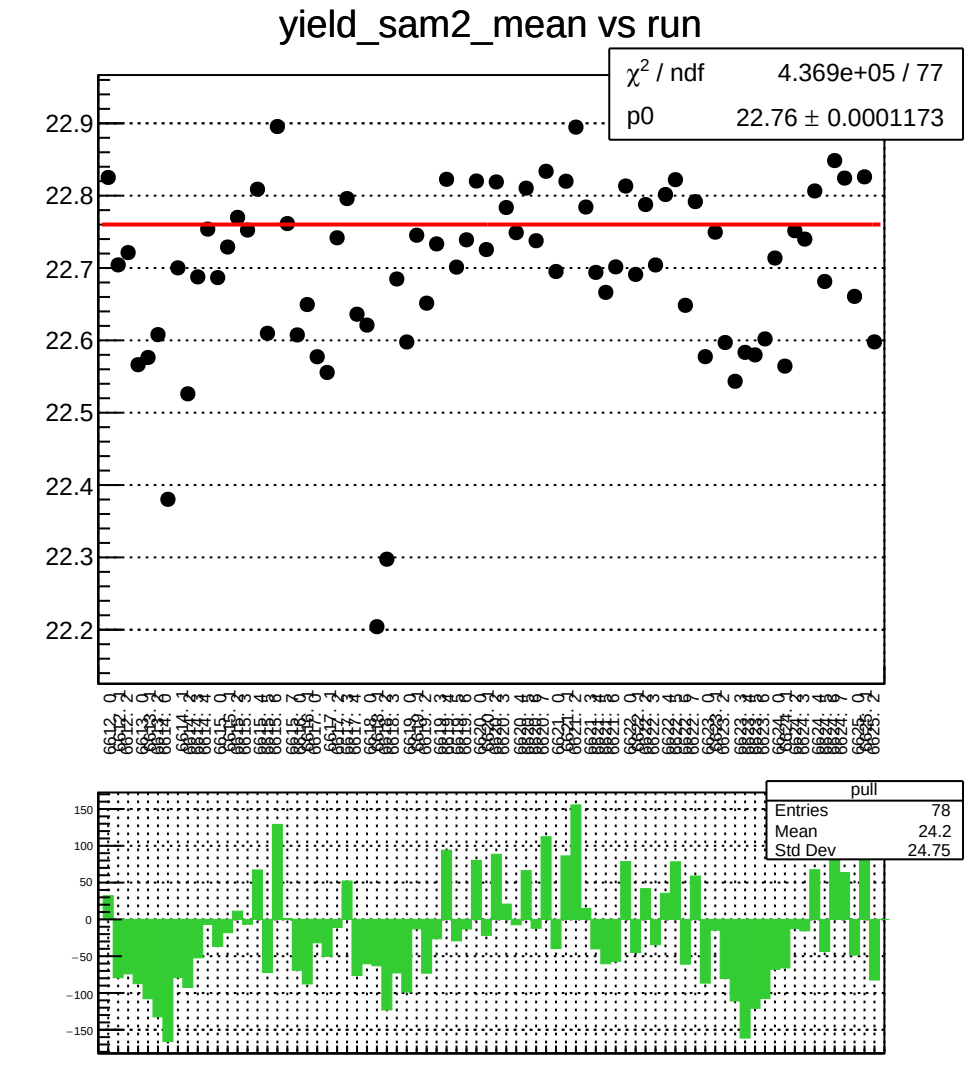

pull1D
Entries 78
Mean 0.005132
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

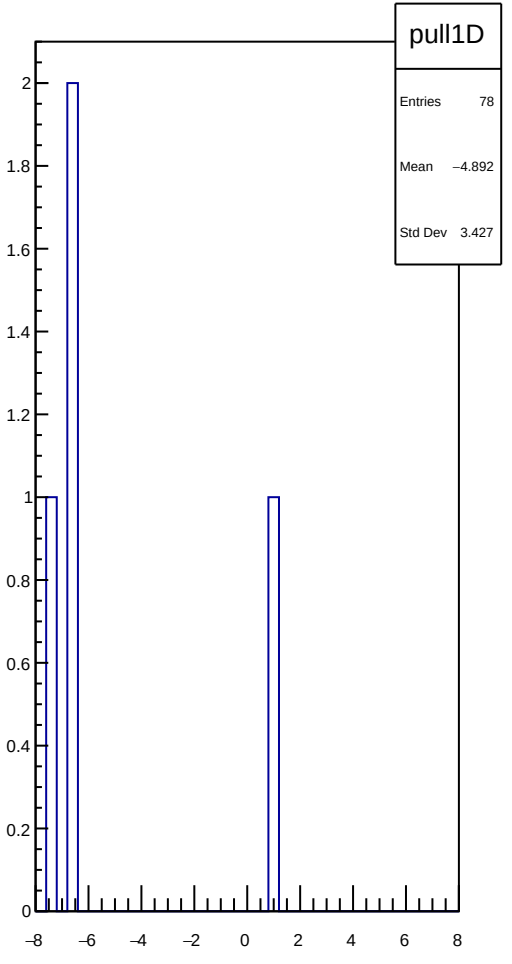

asym_sam8_rms vs run
χ² / ndf 6238 / 77
p0 213.5 ± 0.1719
260
250
240
230
220
210
200
190

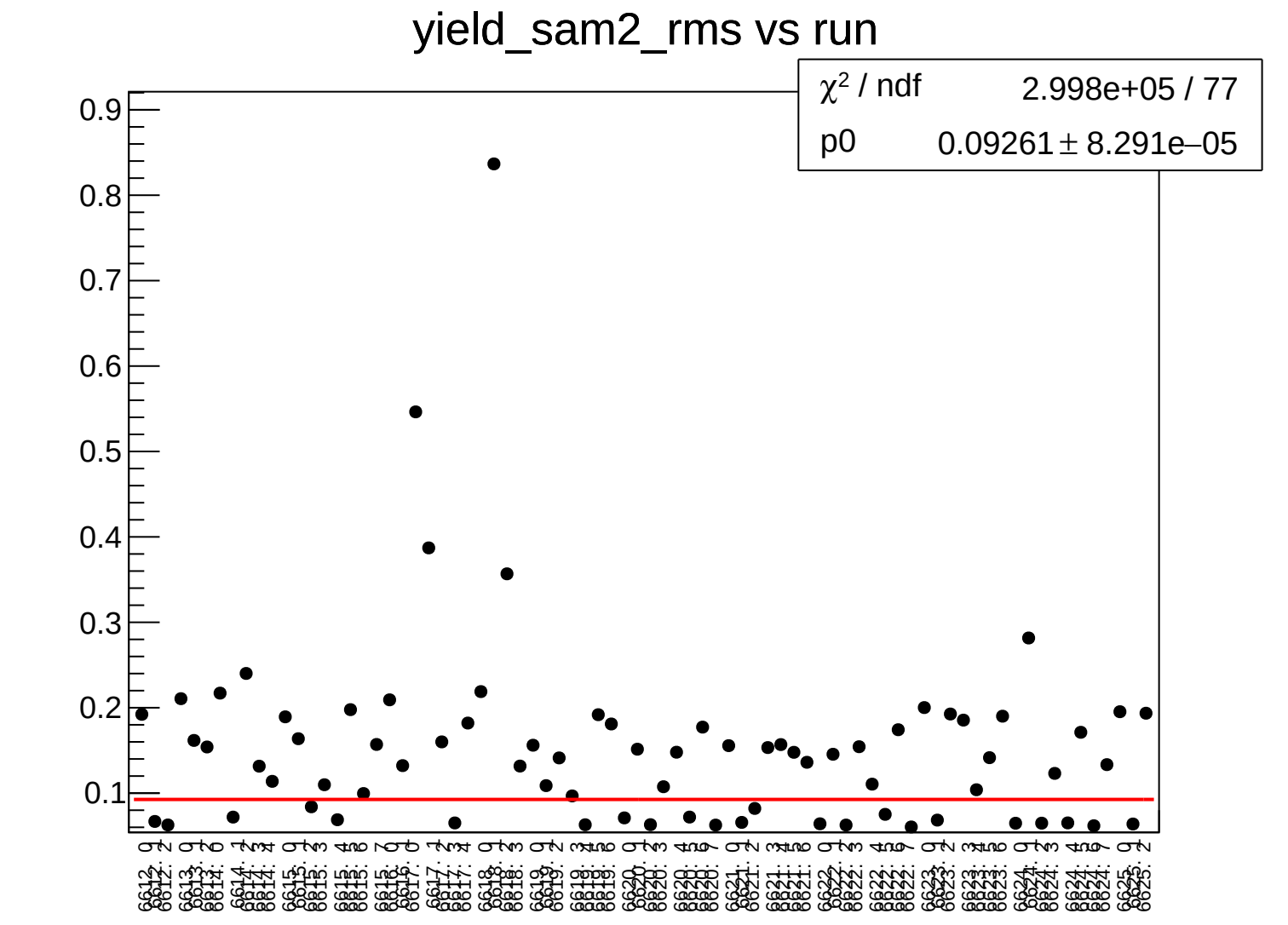

yield_sam1_mean vs run
χ² / ndf 2.772e+07 / 77
p0 14.65 ± 9.805e−06
14.85
14.8
14.75
14.7
14.65
14.6
14.55
pull
Entries 78
Mean −383.4
Std Dev 420
2000
1500
1000
500
0
−500
−1000

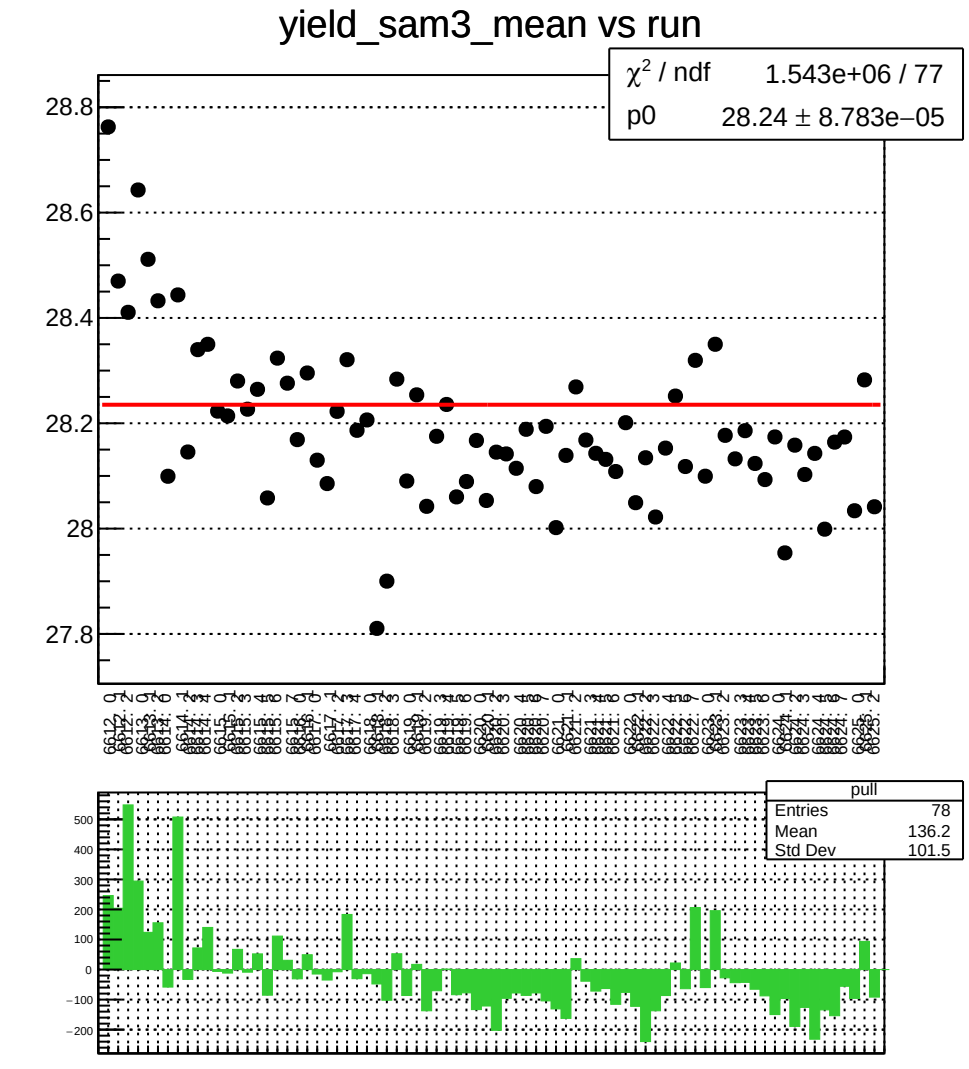

pull1D
Entries 78
Mean 2.908
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

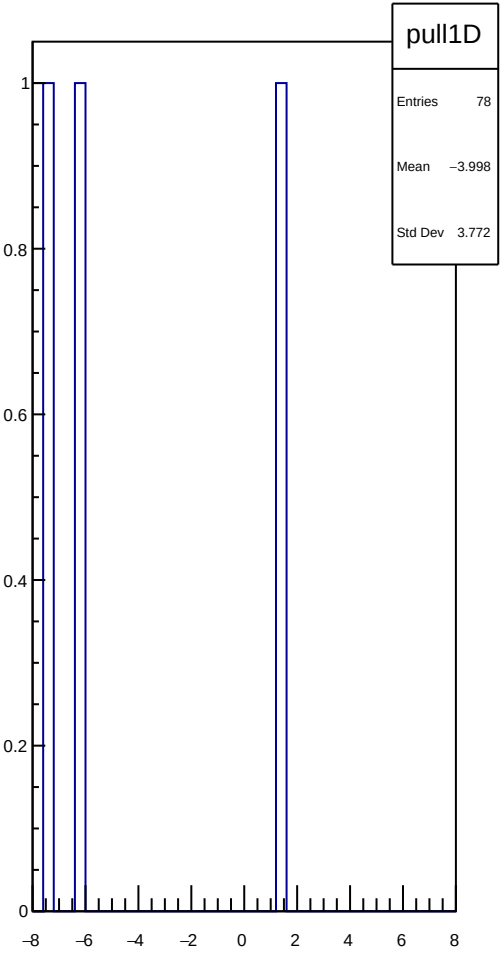

yield_sam1_rms vs run
χ² / ndf 6.943e+04 / 77
p0 0.00843 ± 6.933e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

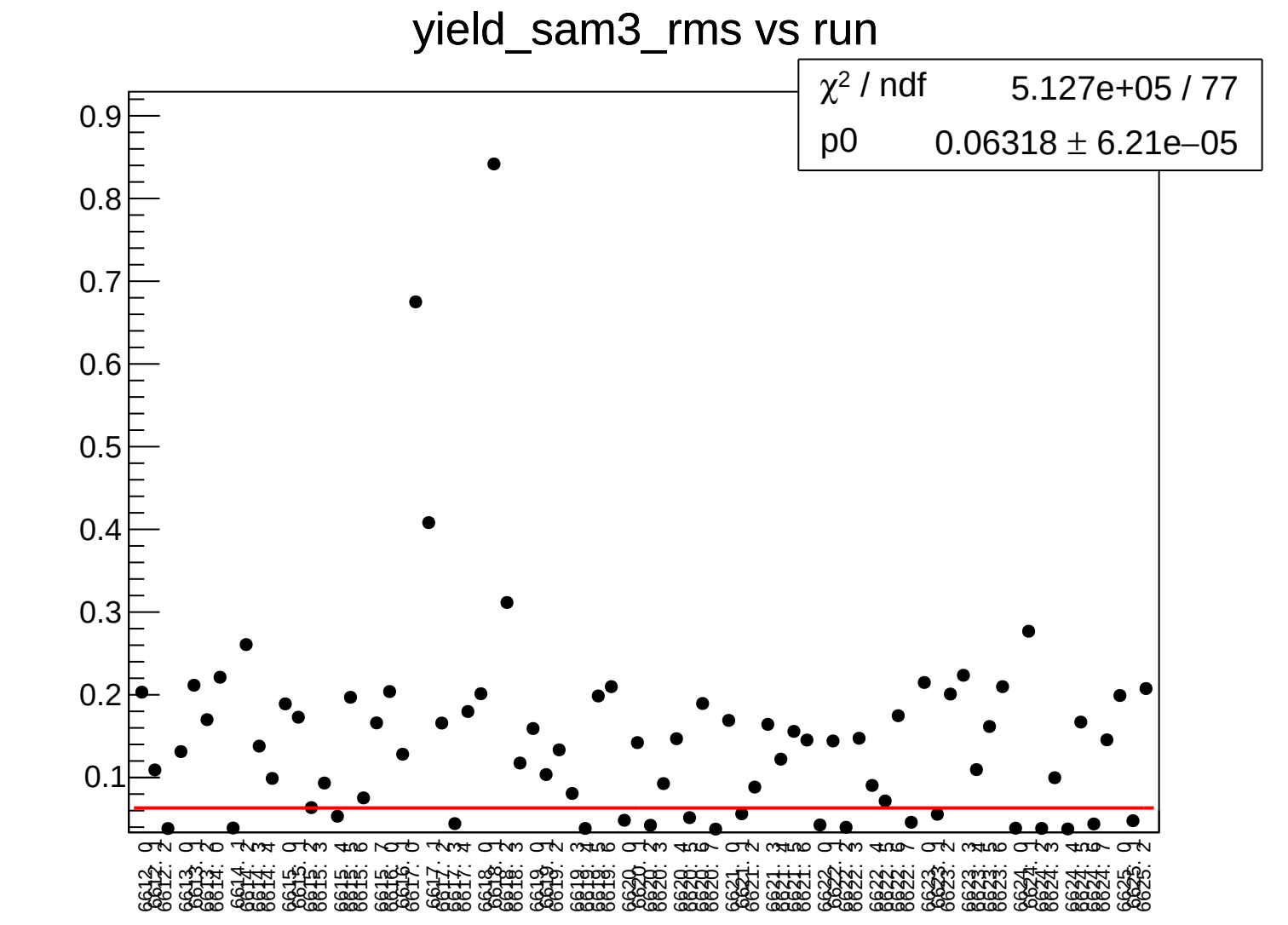

yield_sam2_mean vs run
χ² / ndf 4.369e+05 / 77
p0 22.76 ± 0.0001173
22.9
22.8
22.7
22.6
22.5
22.4
22.3
22.2
pull
Entries 78
Mean 24.2
Std Dev 24.75
150
100
50
0
−50
−100
−150

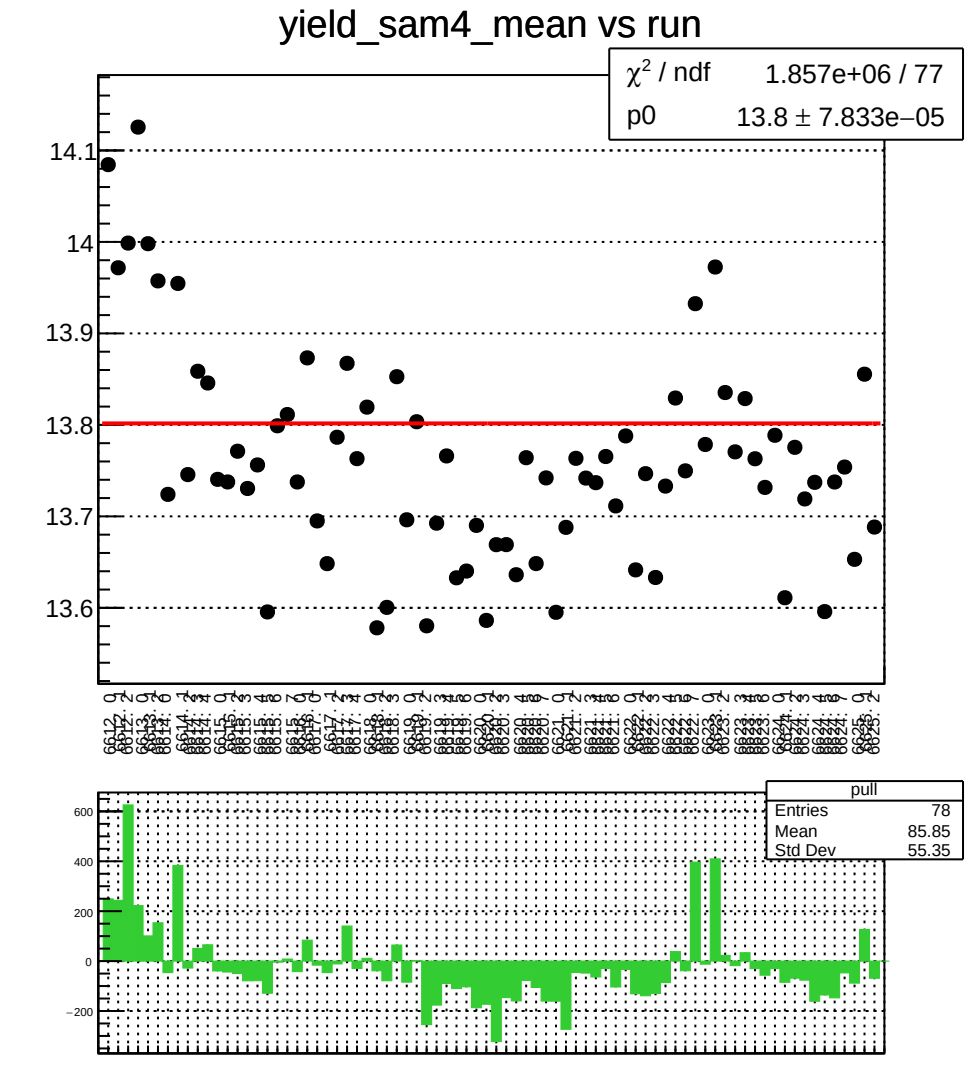

pull1D
Entries 78
Mean −4.892
Std Dev 3.427
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

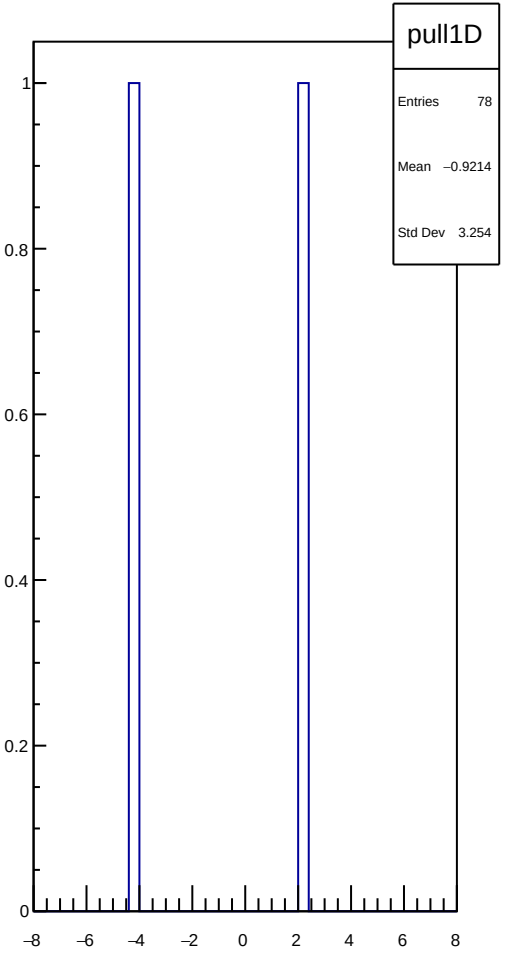

yield_sam2_rms vs run
χ² / ndf 2.998e+05 / 77
p0 0.09261 ± 8.291e–05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

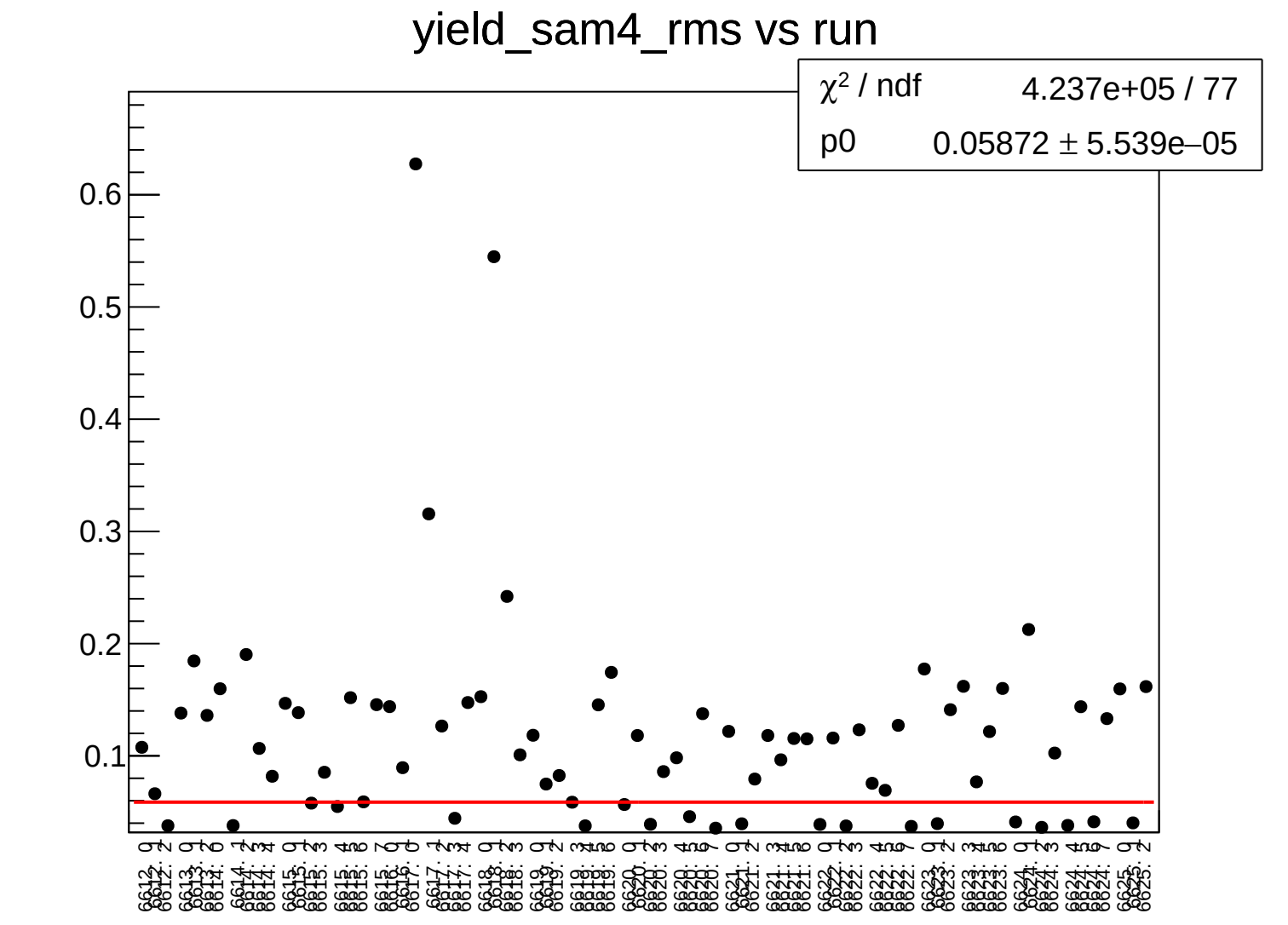

yield_sam3_mean vs run
χ² / ndf 1.543e+06 / 77
p0 28.24 ± 8.783e−05
28.8
28.6
28.4
28.2
28
27.8
pull
Entries 78
Mean 136.2
Std Dev 101.5
500
400
300
200
100
0
−100
−200

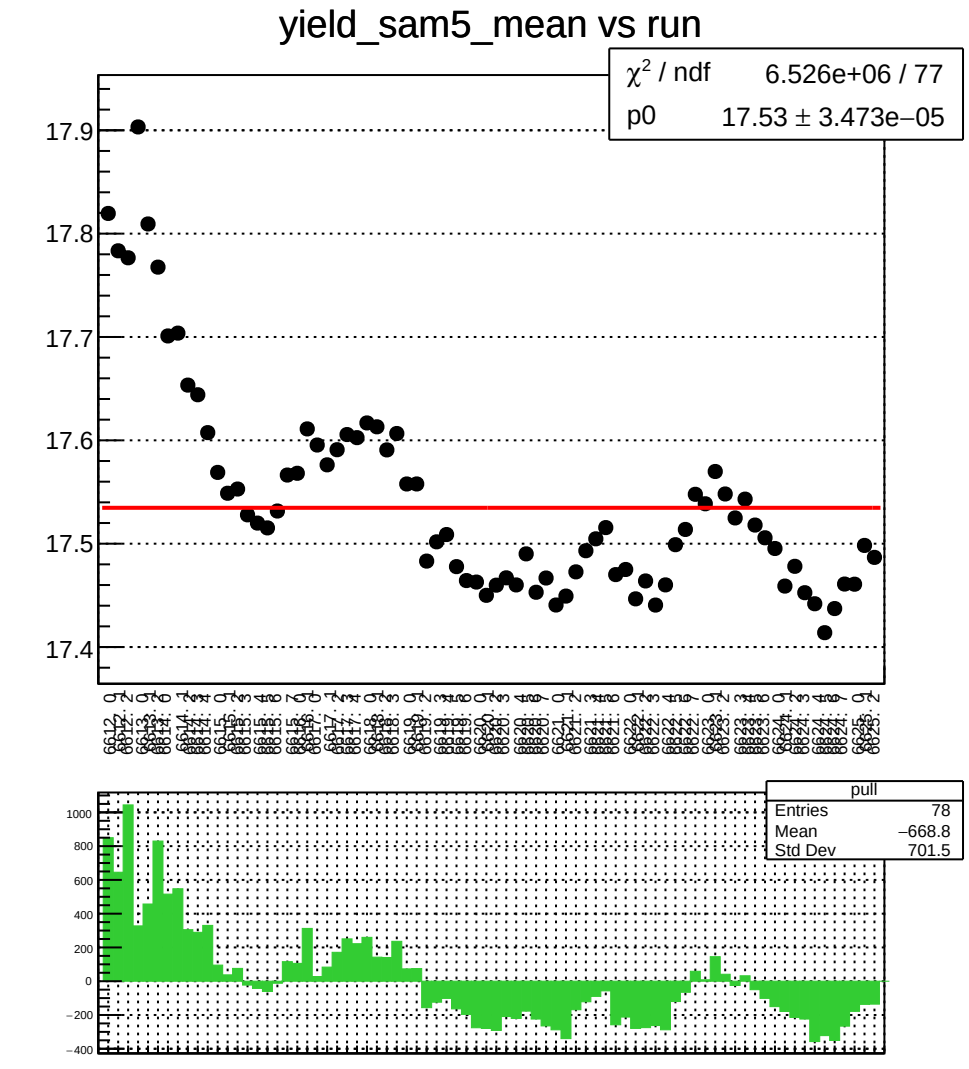

pull1D
Entries 78
Mean −3.998
Std Dev 3.772
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

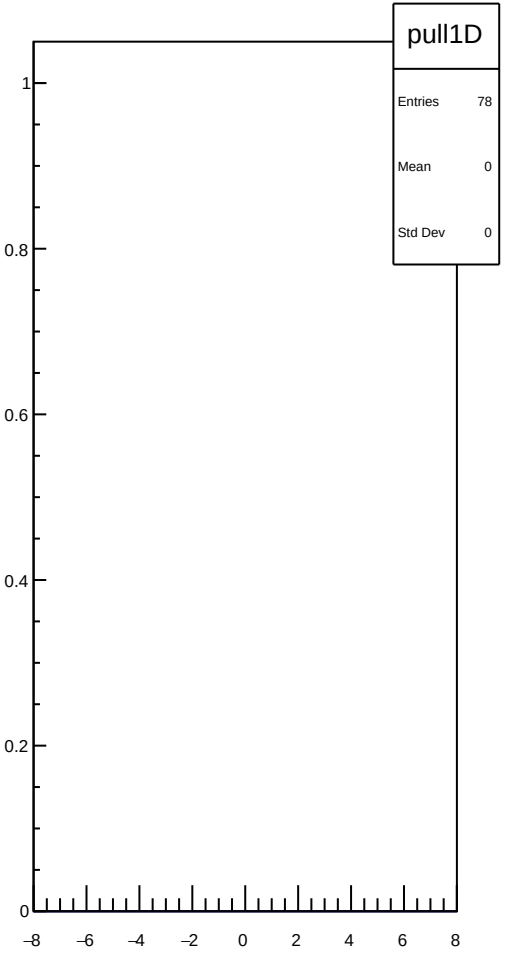

yield_sam3_rms vs run
χ² / ndf 5.127e+05 / 77
p0 0.06318 ± 6.21e−05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

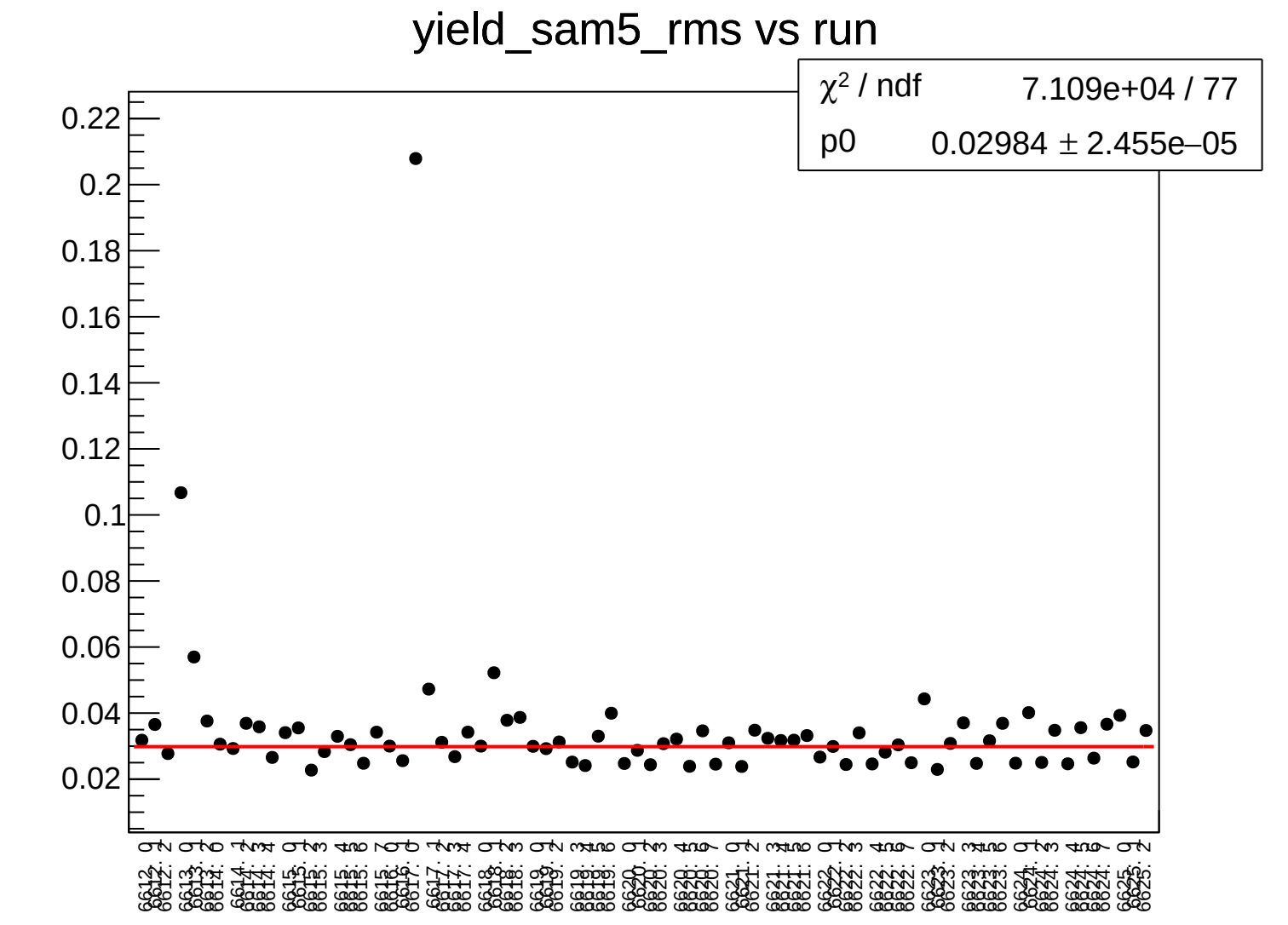

yield_sam4_mean vs run
χ² / ndf 1.857e+06 / 77
p0 13.8 ± 7.833e−05
14.1
14
13.9
13.8
13.7
13.6
pull
Entries 78
Mean 85.85
Std Dev 55.35
600
400
200
0
−200

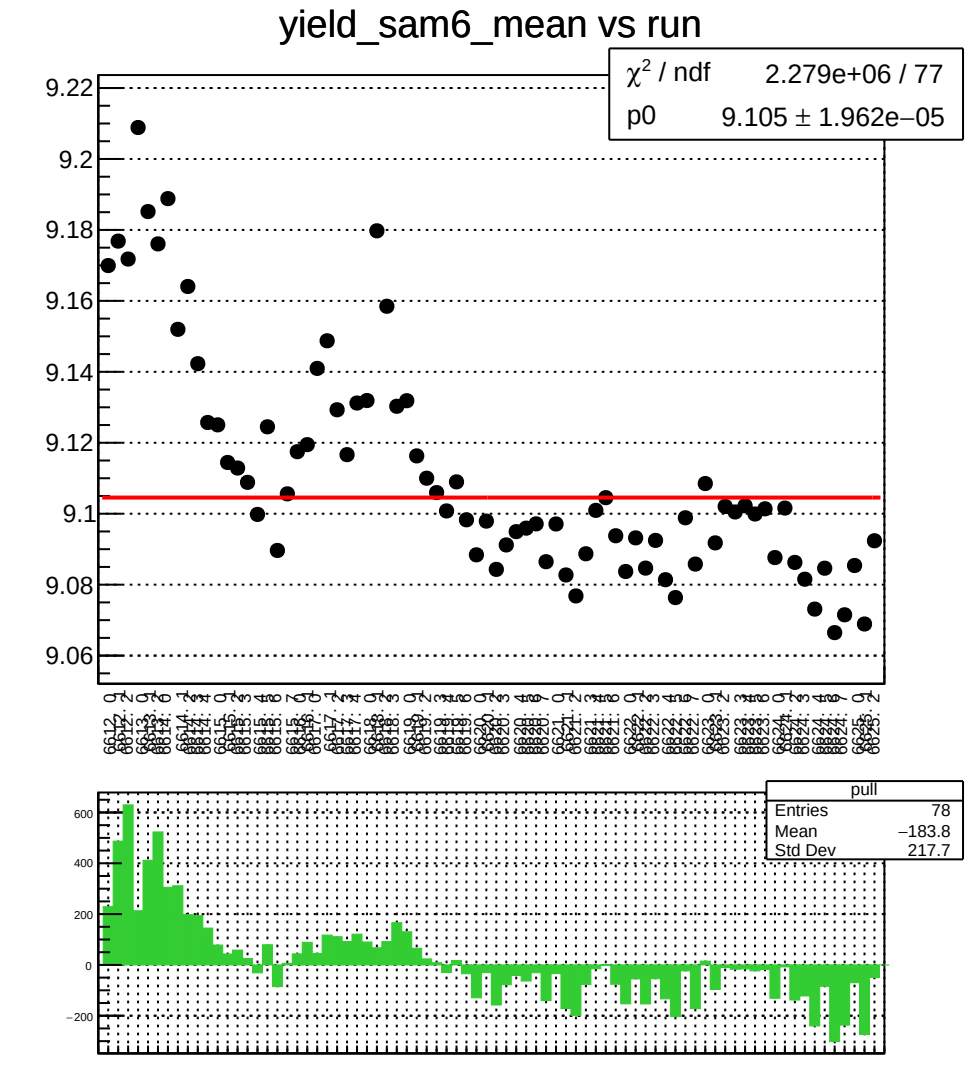

pull1D
Entries 78
Mean −0.9214
Std Dev 3.254
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

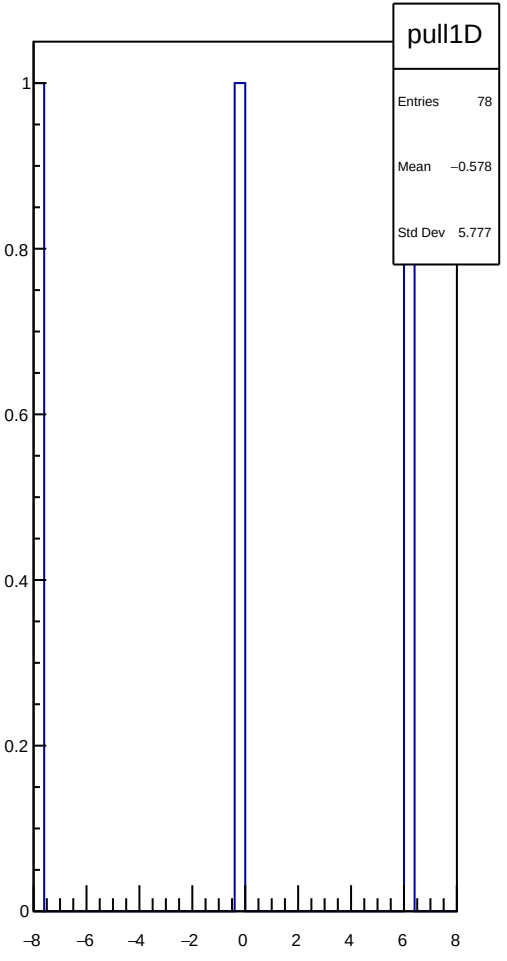

yield_sam4_rms vs run
χ² / ndf 4.237e+05 / 77
p0 0.05872 ± 5.539e−05
0.6
0.5
0.4
0.3
0.2
0.1

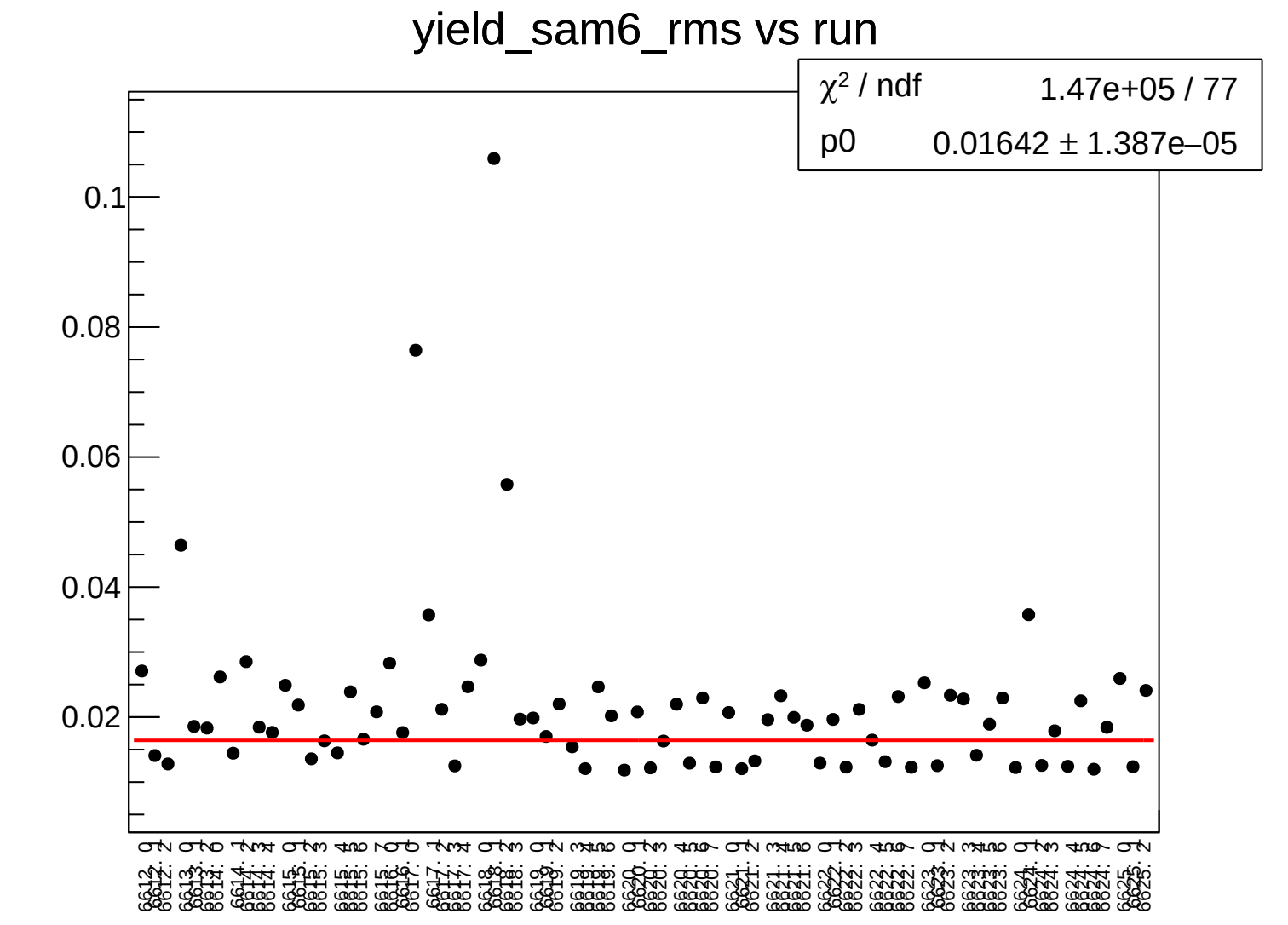

yield_sam5_mean vs run
χ² / ndf 6.526e+06 / 77
p0 17.53 ± 3.473e−05
17.9
17.8
17.7
17.6
17.5
17.4
pull
Entries 78
Mean −668.8
Std Dev 701.5
1000
800
600
400
200
0
−200
−400

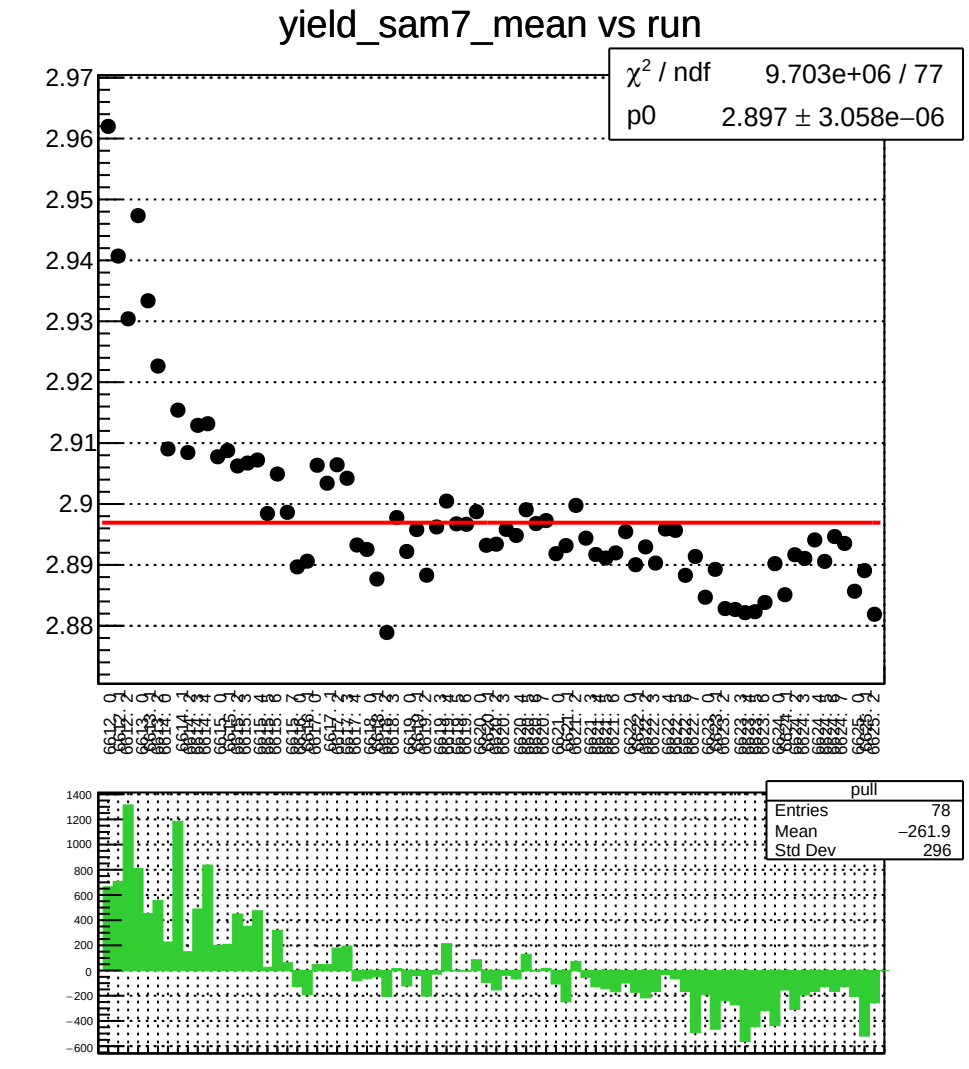

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

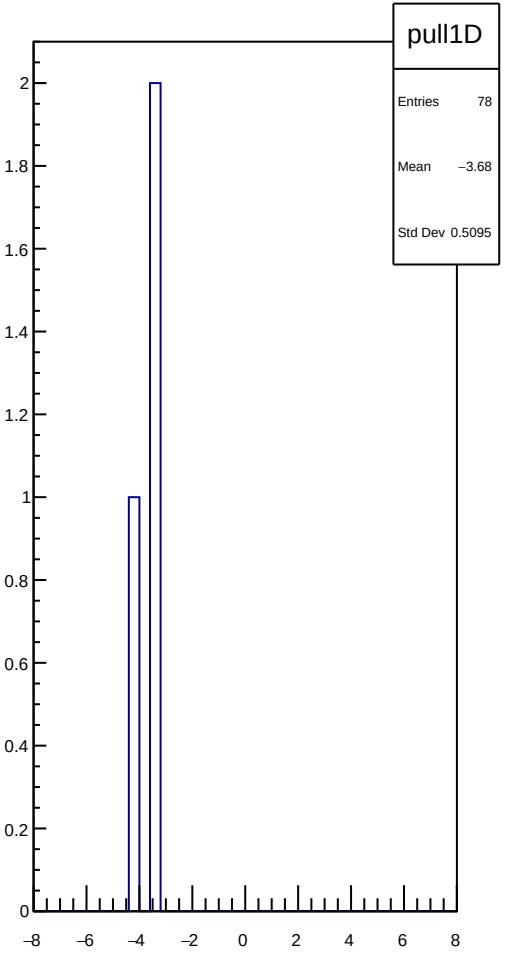

yield_sam5_rms vs run
χ^2 / ndf 7.109e+04 / 77
p0 0.02984 ± 2.455e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

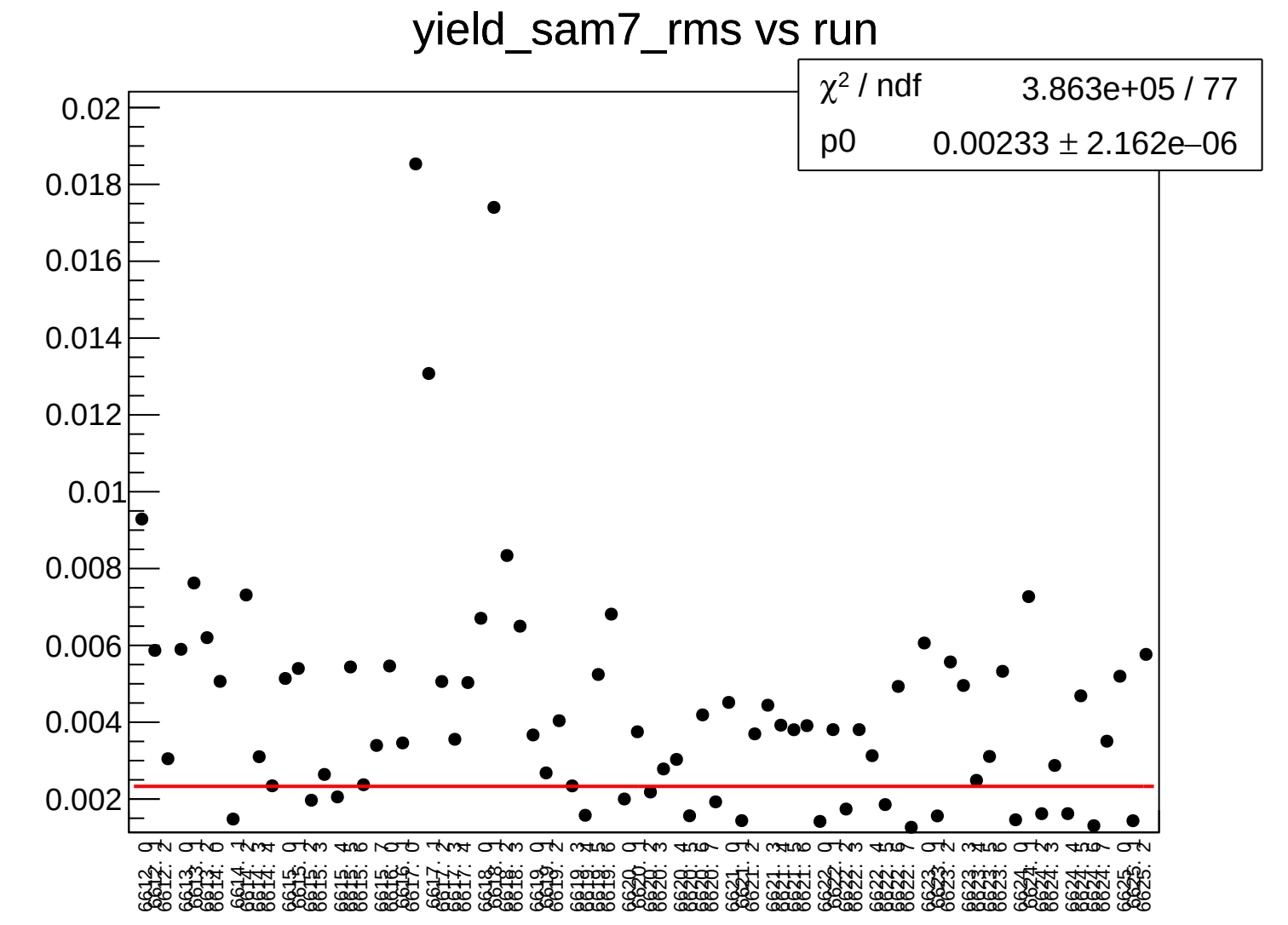

yield_sam6_mean vs run
χ² / ndf 2.279e+06 / 77
p0 9.105 ± 1.962e−05
9.22
9.2
9.18
9.16
9.14
9.12
9.1
9.08
9.06
pull
Entries 78
Mean −183.8
Std Dev 217.7
600
400
200
0
−200

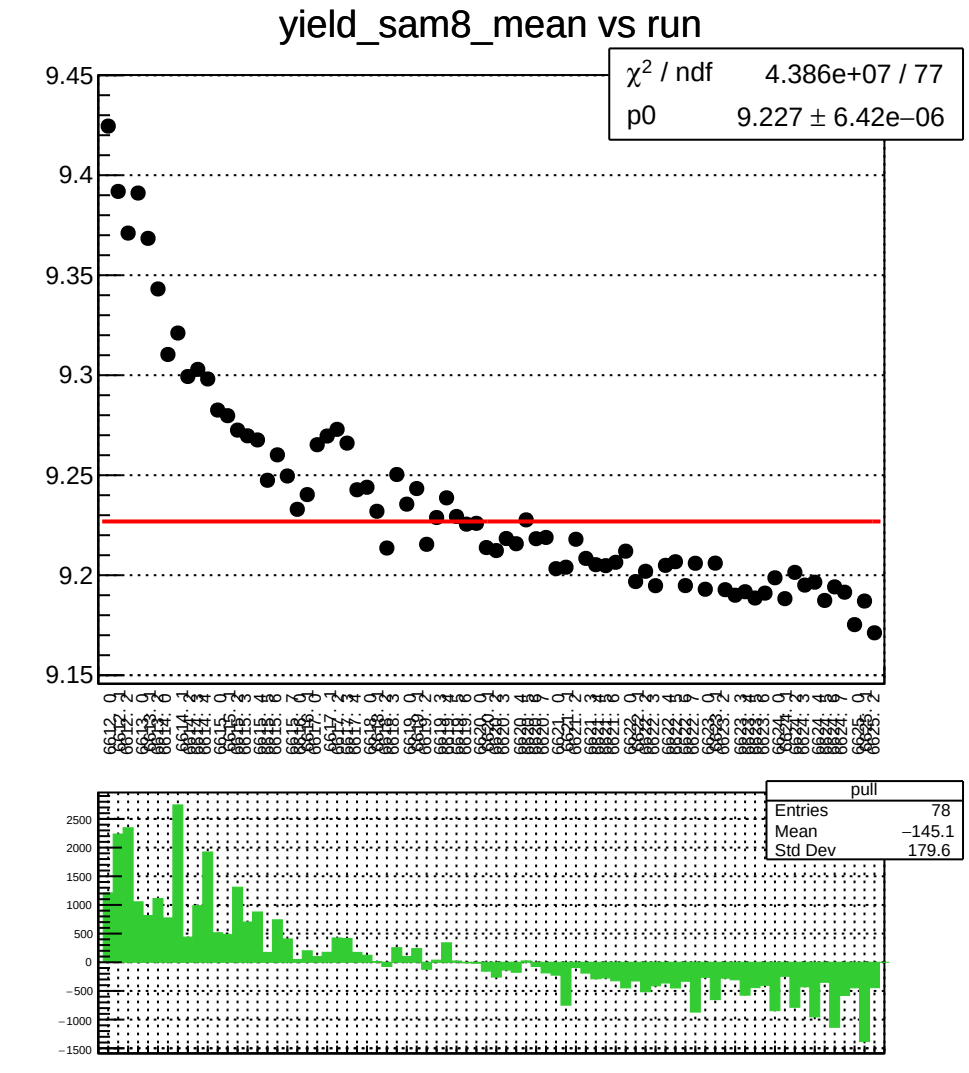

pull1D
Entries 78
Mean −0.578
Std Dev 5.777
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

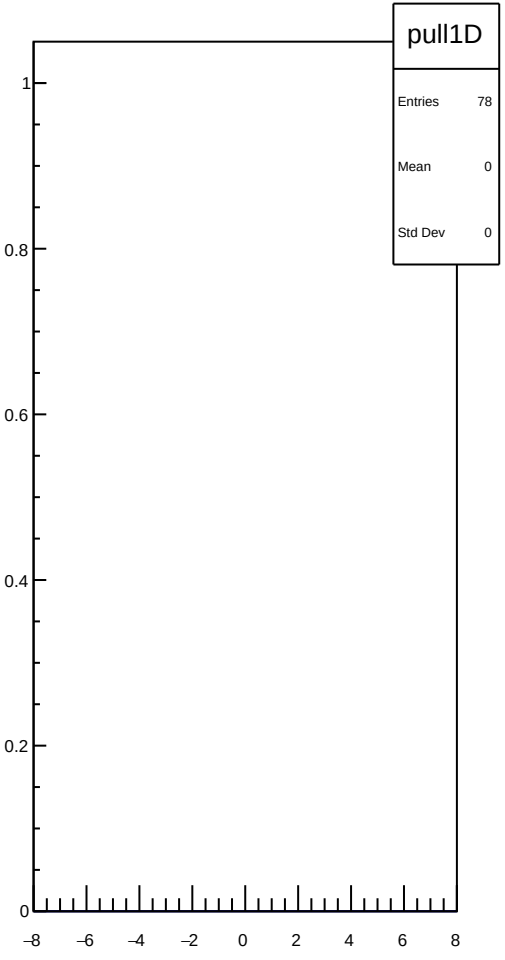

yield_sam6_rms vs run
χ² / ndf 1.47e+05 / 77
p0 0.01642 ± 1.387e−05
0.1
0.08
0.06
0.04
0.02

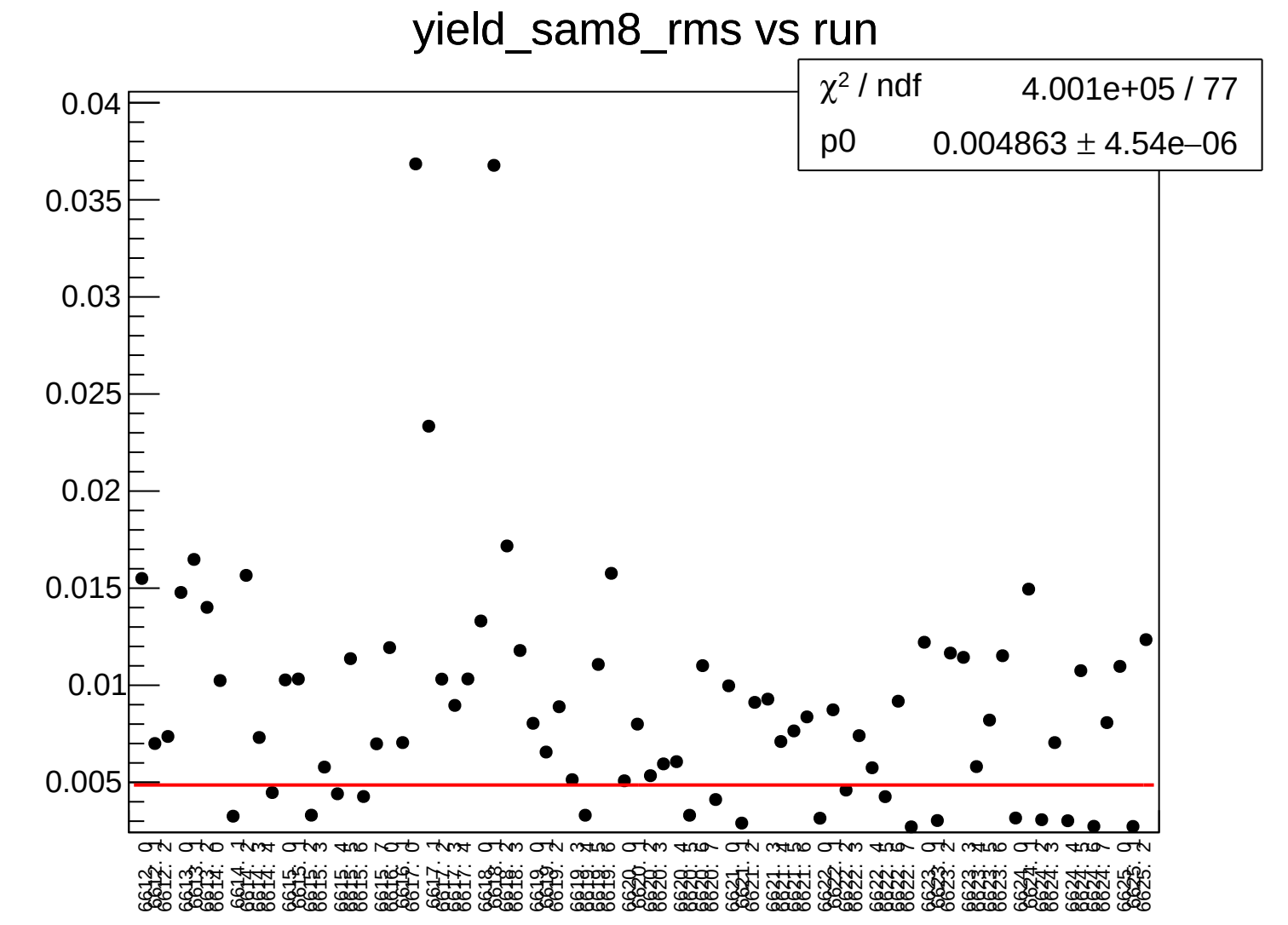

yield_sam7_mean vs run
χ² / ndf 9.703e+06 / 77
p0 2.897 ± 3.058e−06
pull
Entries 78
Mean −261.9
Std Dev 296

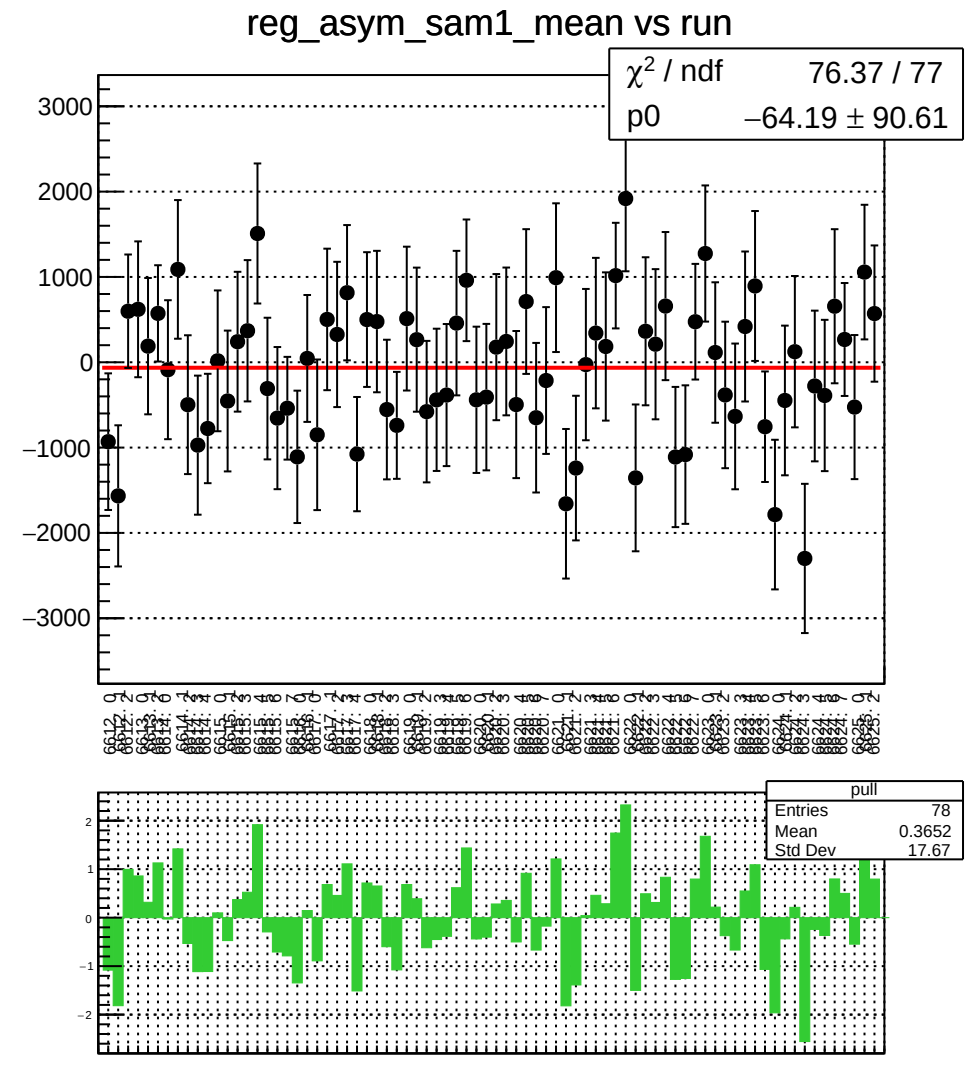

pull1D
Entries 78
Mean −3.68
Std Dev 0.5095

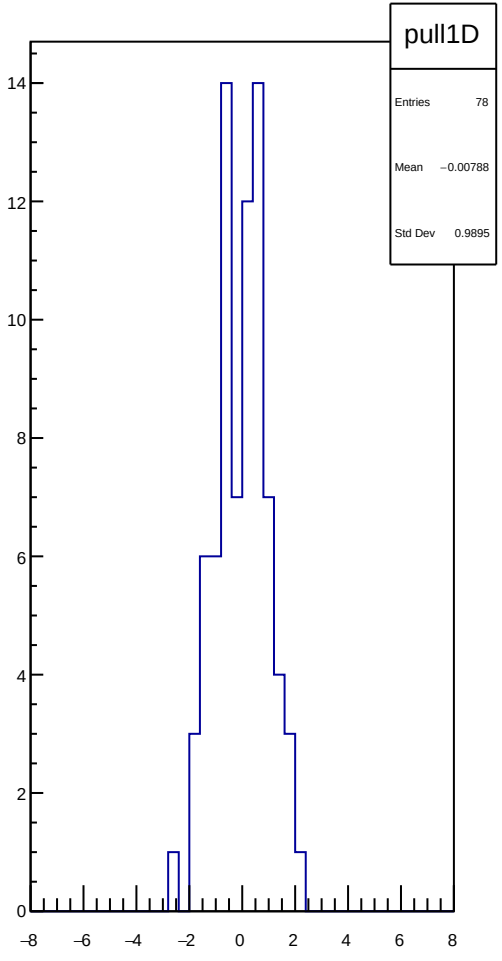

yield_sam7_rms vs run
χ² / ndf 3.863e+05 / 77
p0 0.00233 ± 2.162e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

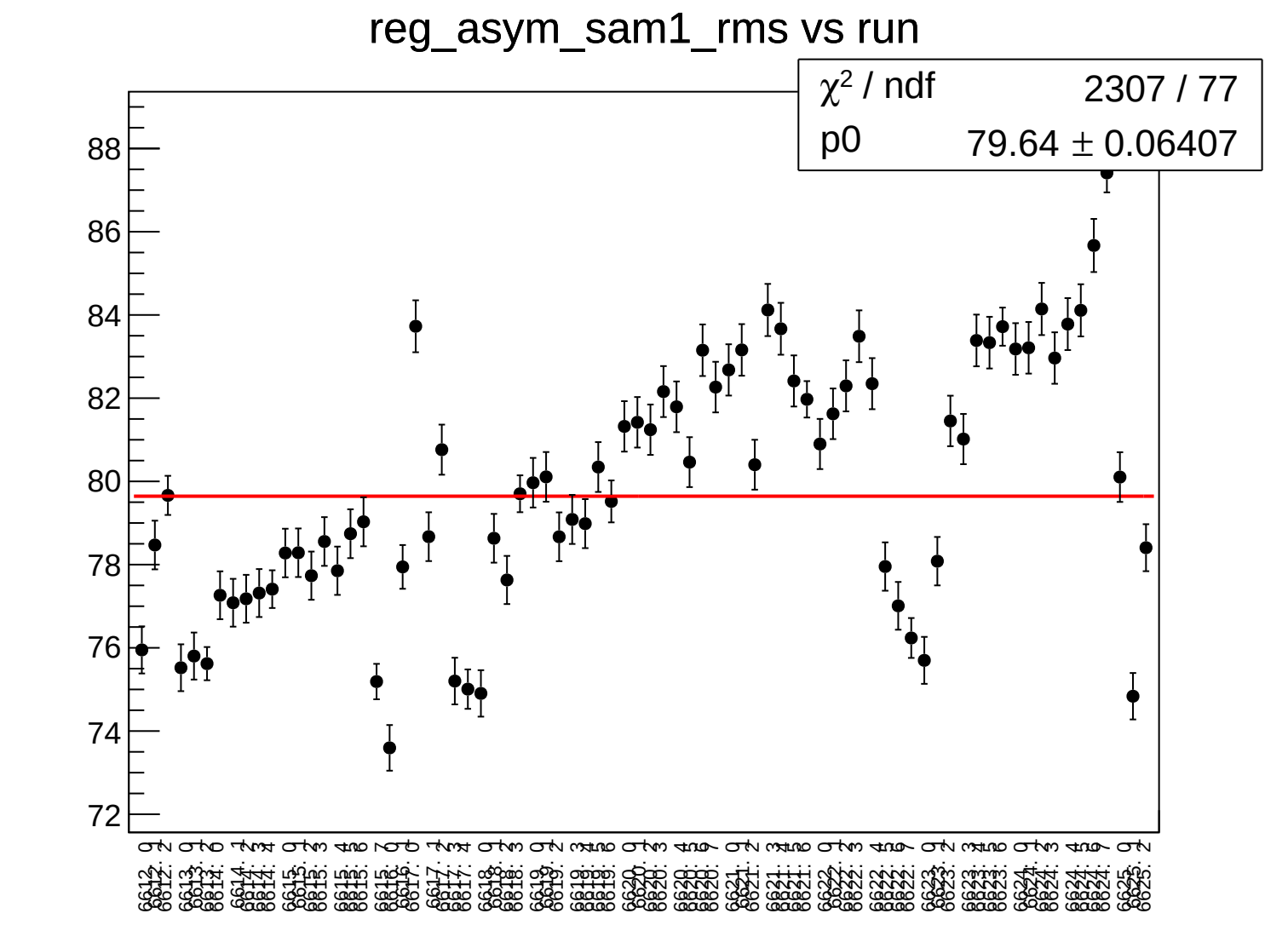

yield_sam8_mean vs run
χ² / ndf 4.386e+07 / 77
p0 9.227 ± 6.42e−06
9.45
9.4
9.35
9.3
9.25
9.2
9.15
pull
Entries 78
Mean −145.1
Std Dev 179.6
2500
2000
1500
1000
500
0
−500
−1000
−1500

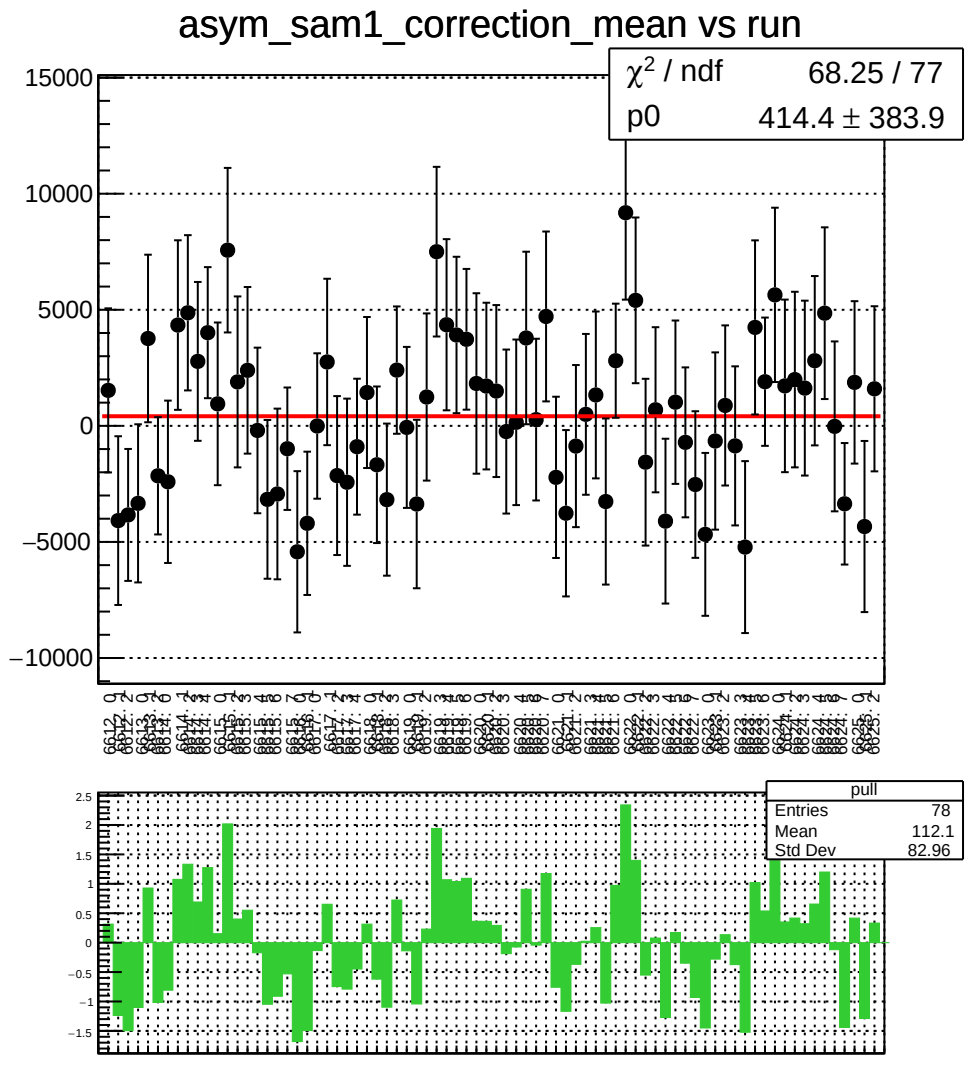

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

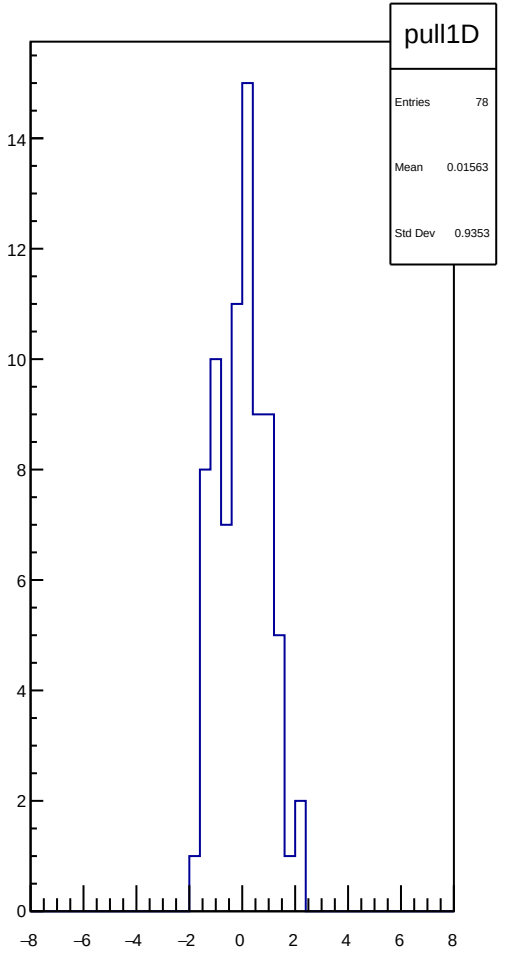

yield_sam8_rms vs run
χ² / ndf 4.001e+05 / 77
p0 0.004863 ± 4.54e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

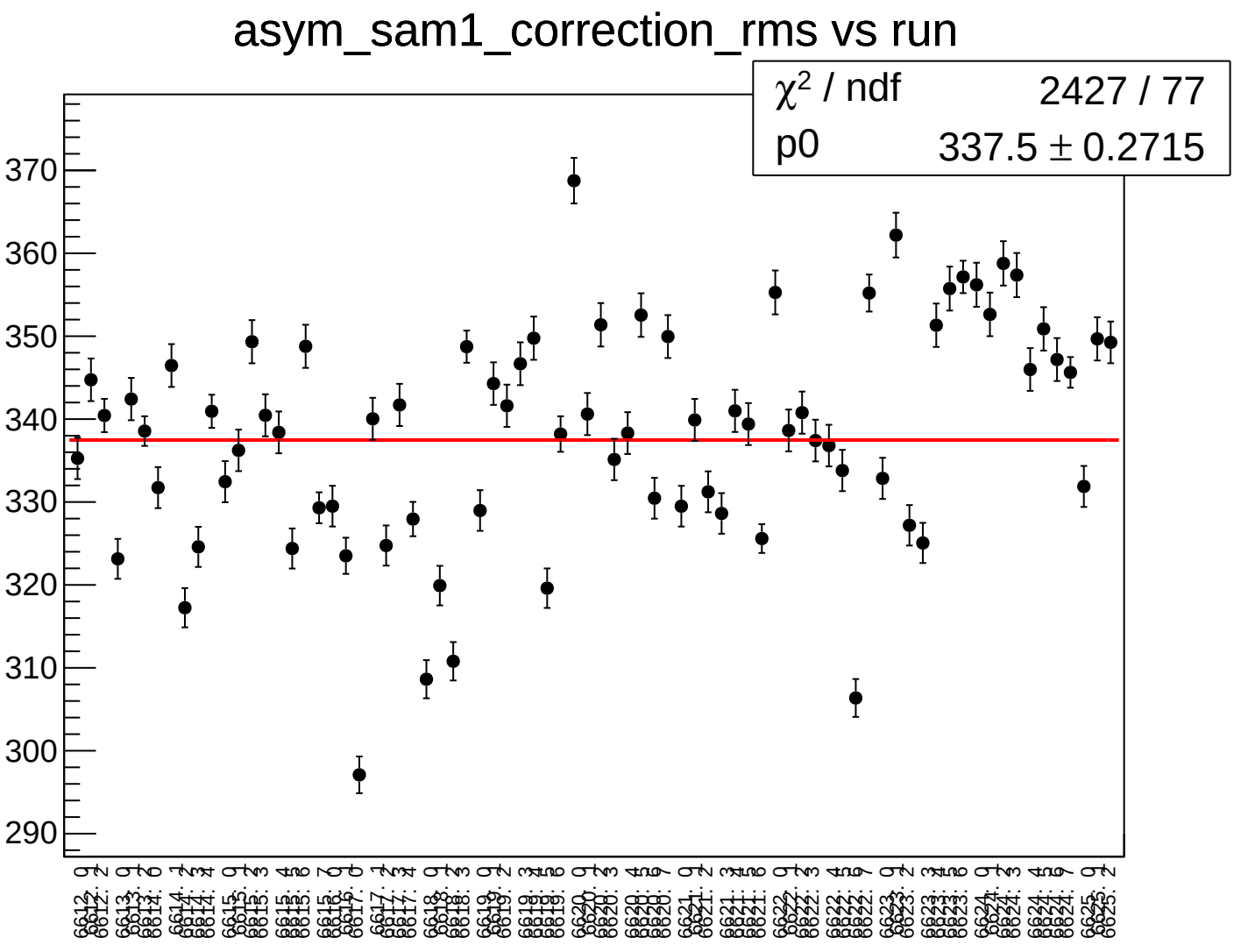

reg_asym_sam1_mean vs run
χ² / ndf 76.37 / 77
p0 −64.19 ± 90.61
pull
Entries 78
Mean 0.3652
Std Dev 17.67

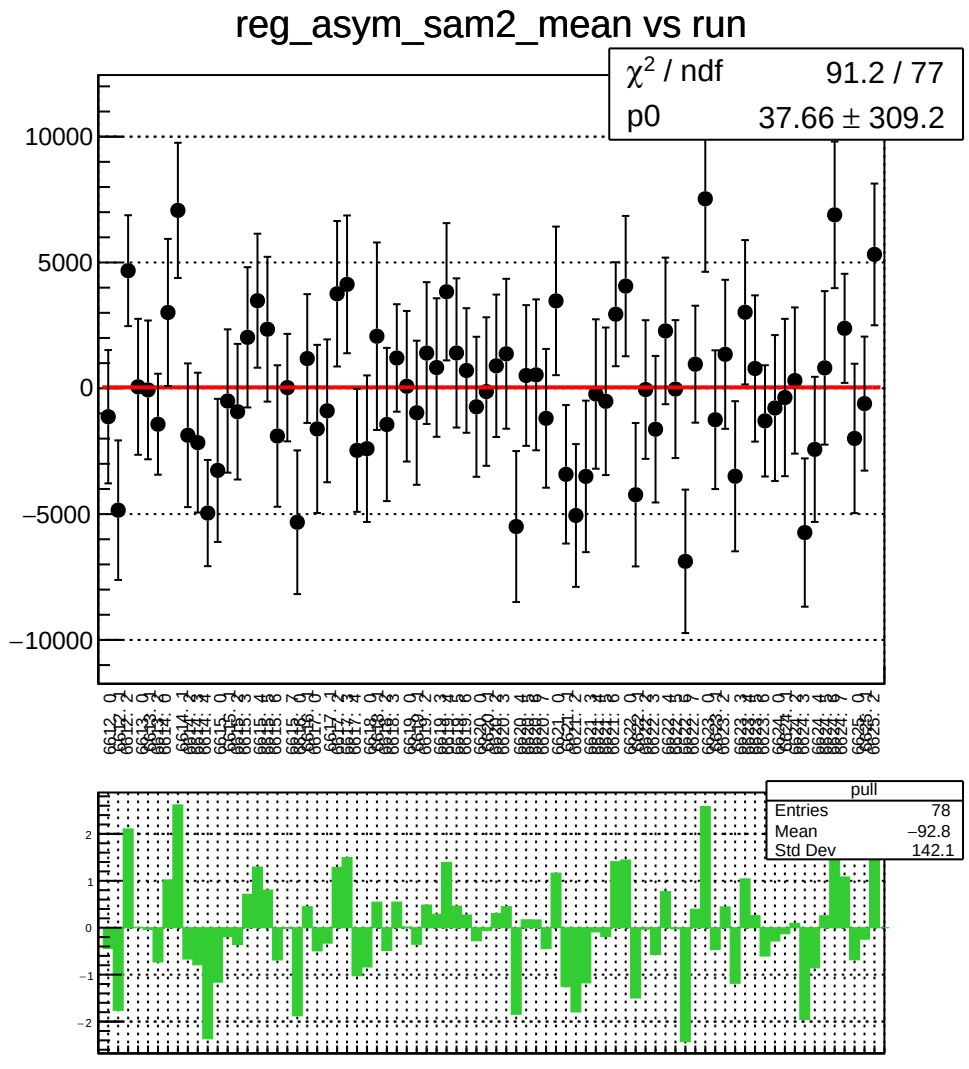

pull1D
Entries 78
Mean −0.00788
Std Dev 0.9895

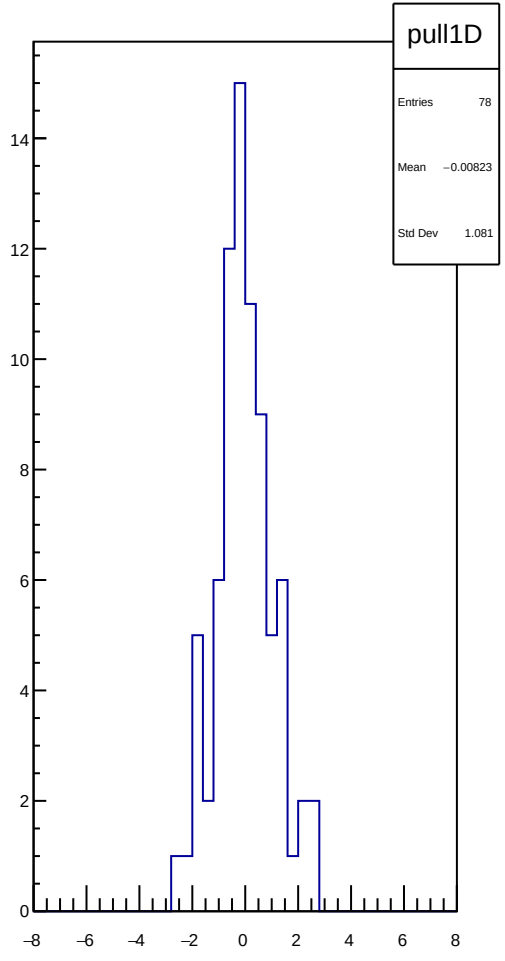

reg_asym_sam1_rms vs run
χ² / ndf 2307 / 77
p0 79.64 ± 0.06407
88
86
84
82
80
78
76
74
72

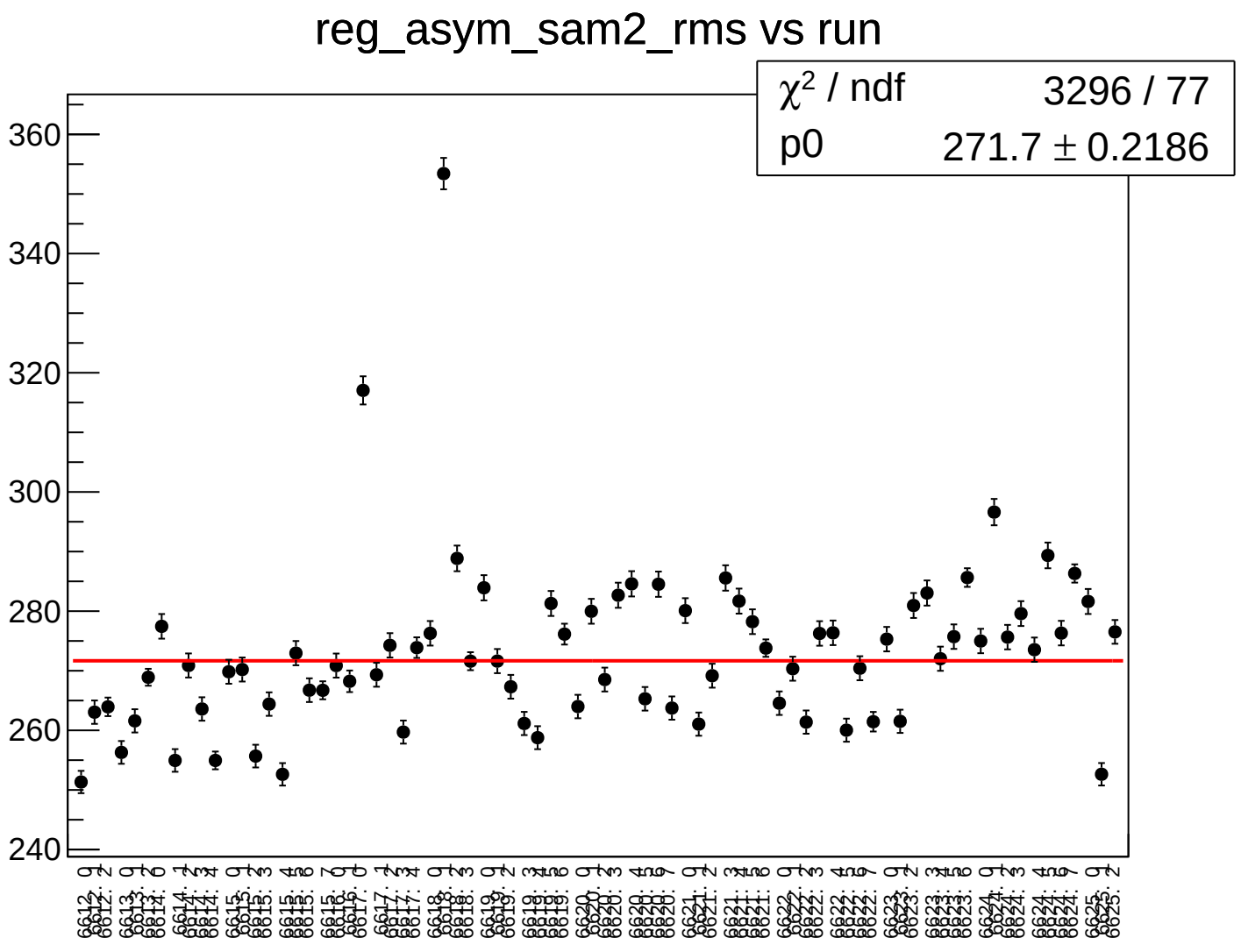

asym_sam1_correction_mean vs run
χ² / ndf 68.25 / 77
p0 414.4 ± 383.9
pull
Entries 78
Mean 112.1
Std Dev 82.96

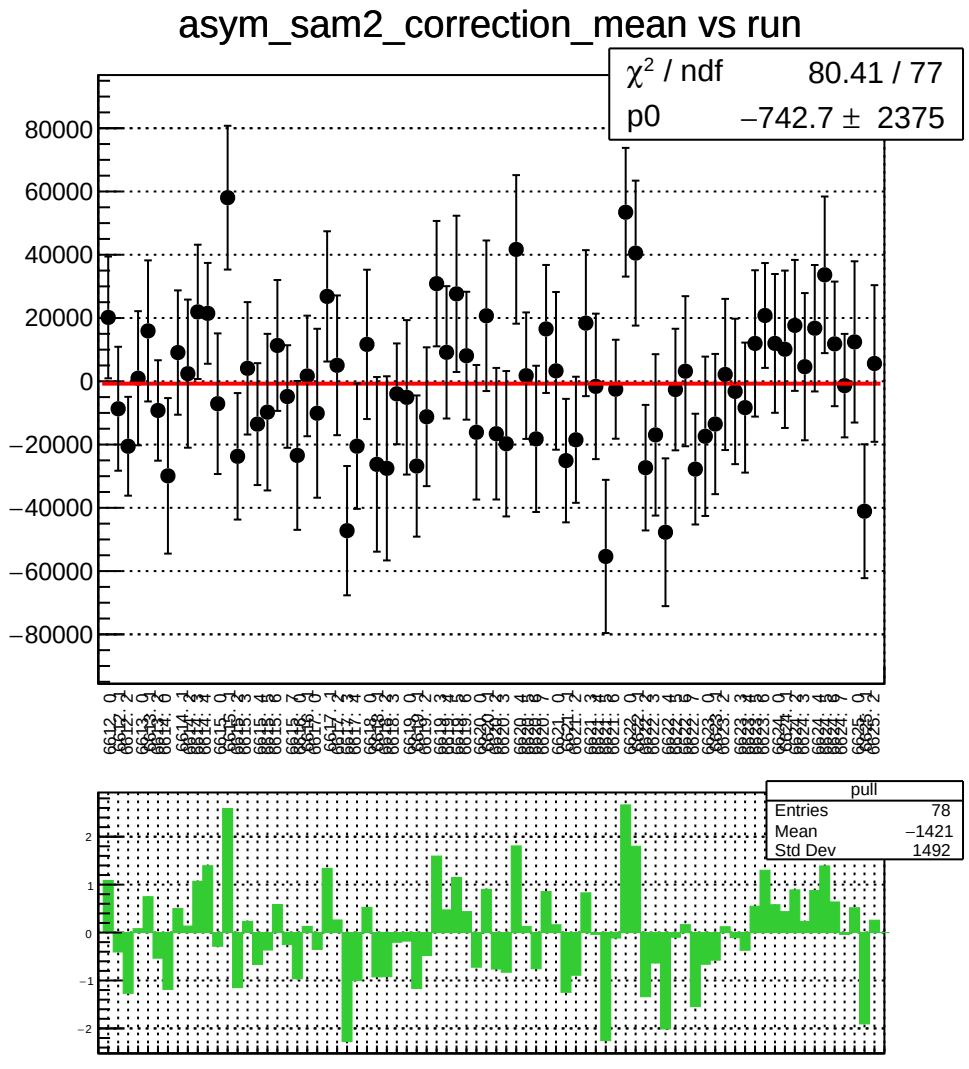

pull1D
Entries 78
Mean 0.01563
Std Dev 0.9353

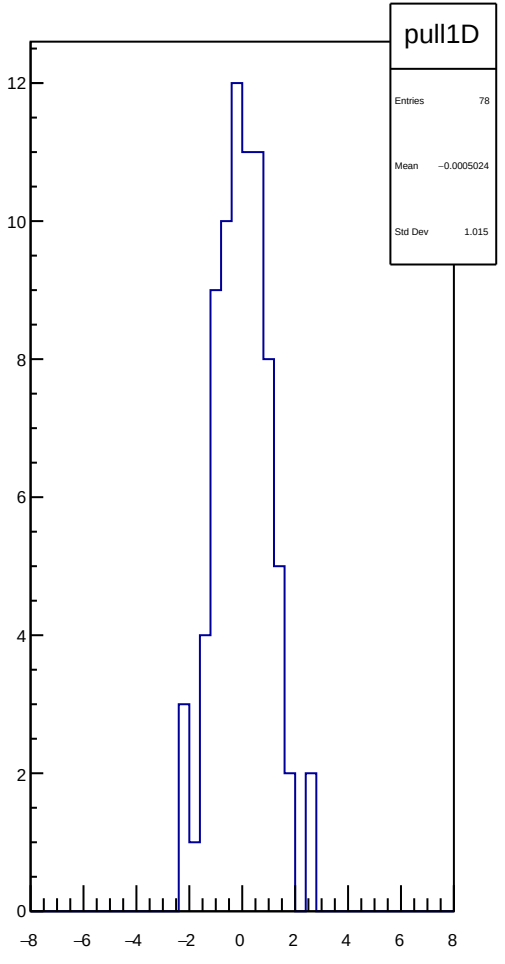

asym_sam1_correction_rms vs run
χ² / ndf 2427 / 77
p0 337.5 ± 0.2715
370
360
350
340
330
320
310
300
290

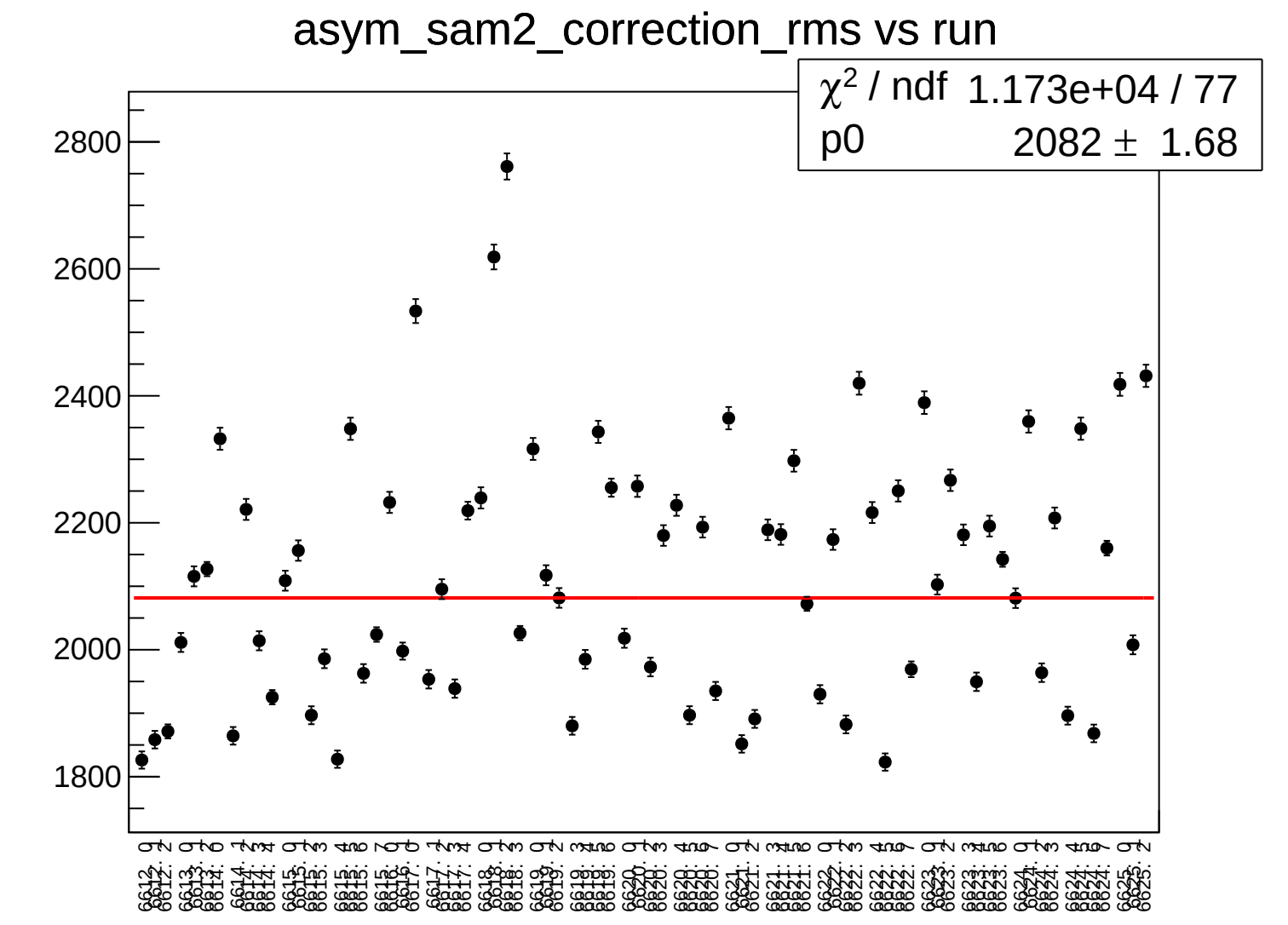

reg_asym_sam2_mean vs run
χ^2 / ndf 91.2 / 77
p0 37.66 ± 309.2
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −92.8
Std Dev 142.1
2
1
0
−1
−2

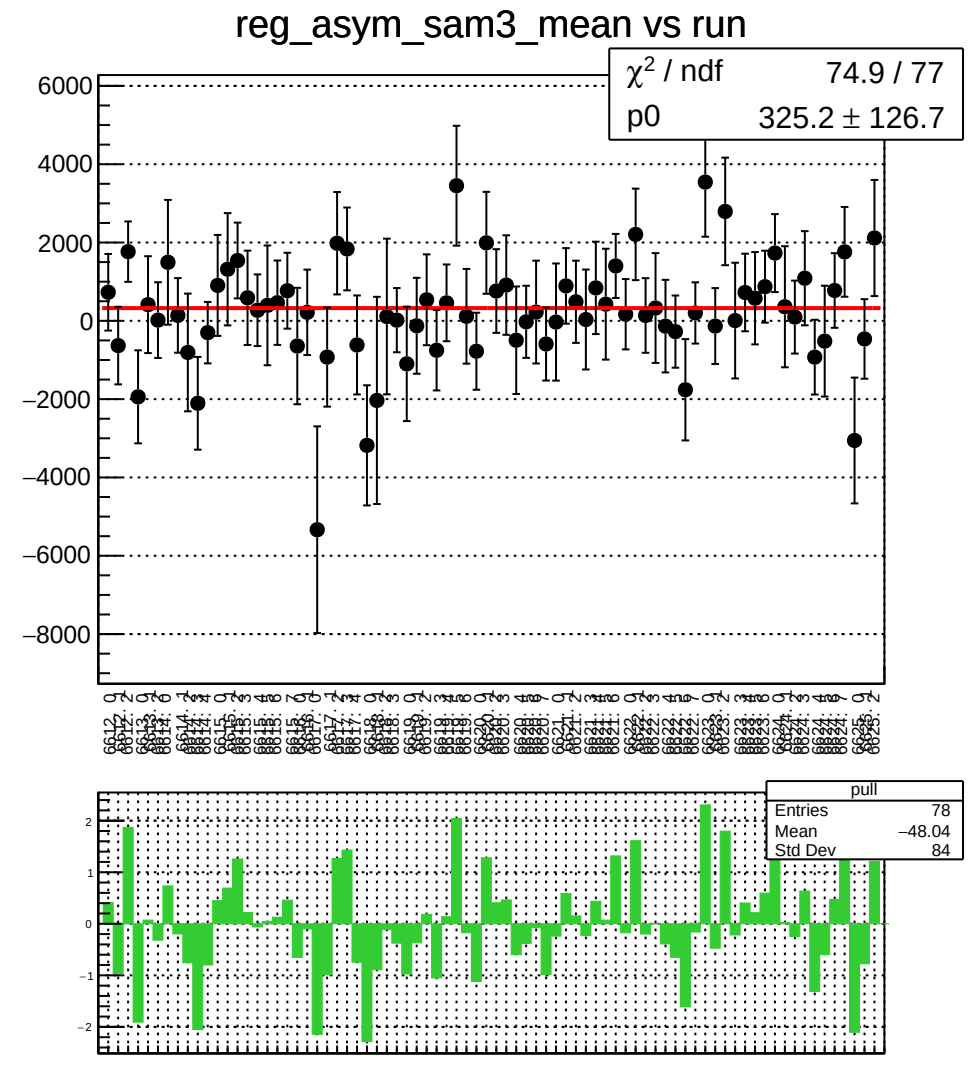

pull1D
Entries 78
Mean −0.00823
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

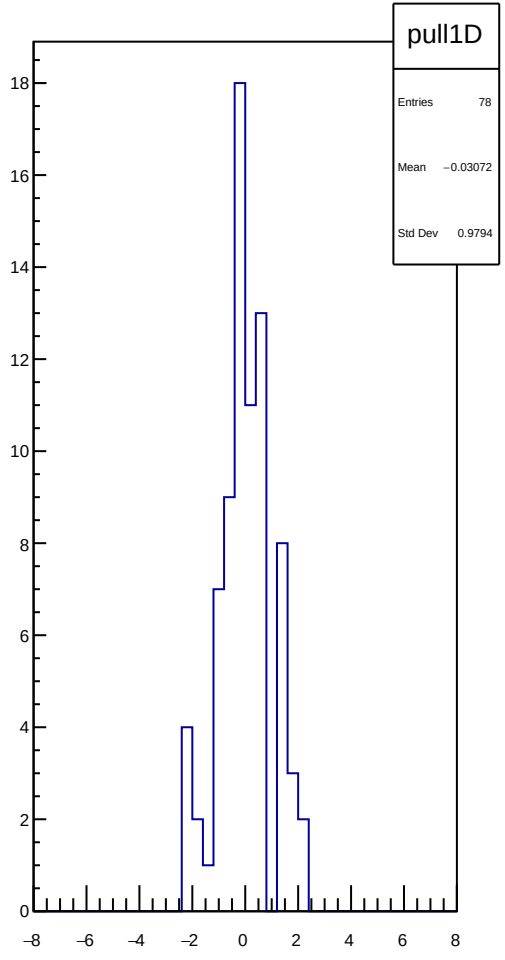

reg_asym_sam2_rms vs run
χ² / ndf 3296 / 77
p0 271.7 ± 0.2186
360
340
320
300
280
260
240

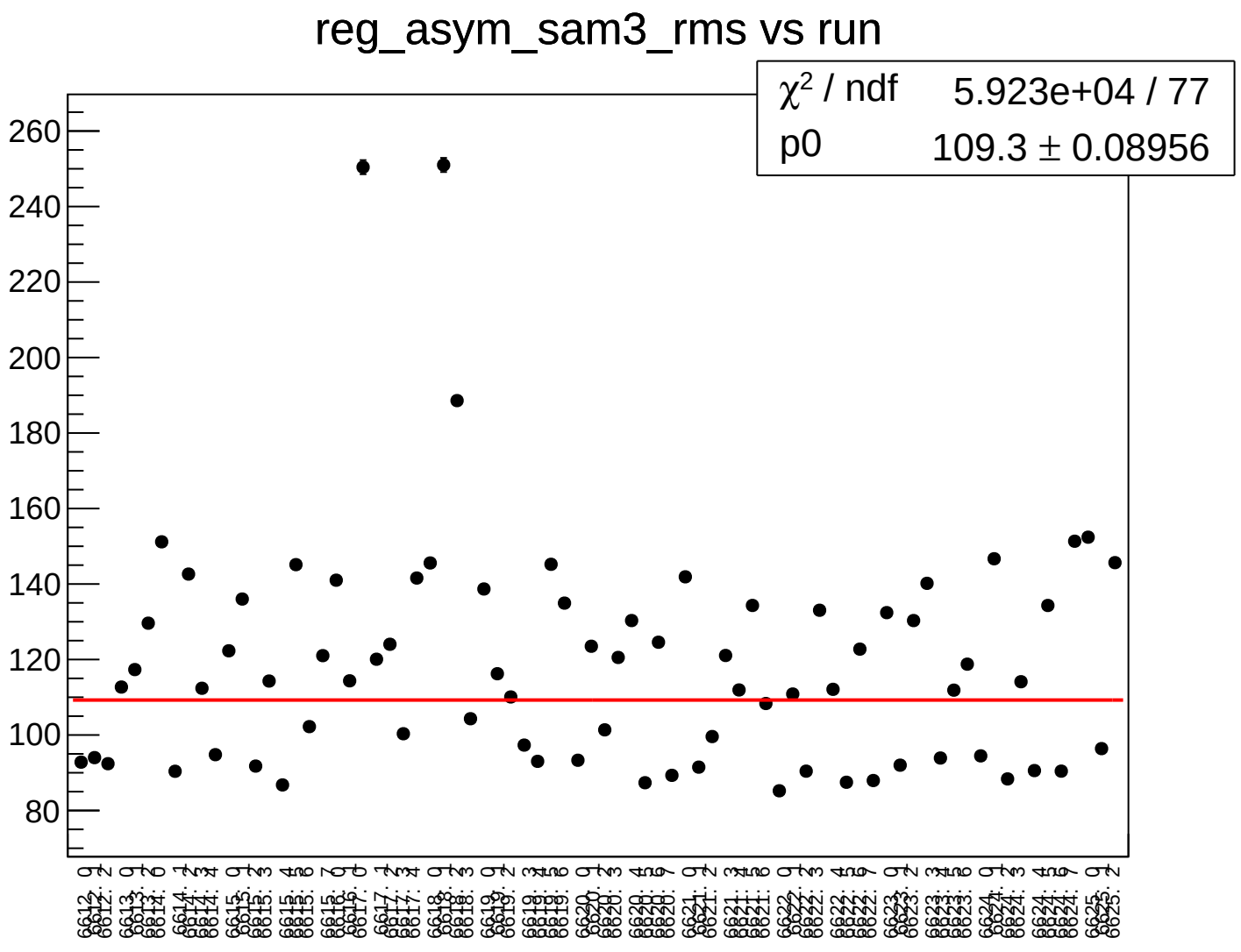

asym_sam2_correction_mean vs run
χ² / ndf 80.41 / 77
p0 −742.7 ± 2375
pull
Entries 78
Mean −1421
Std Dev 1492

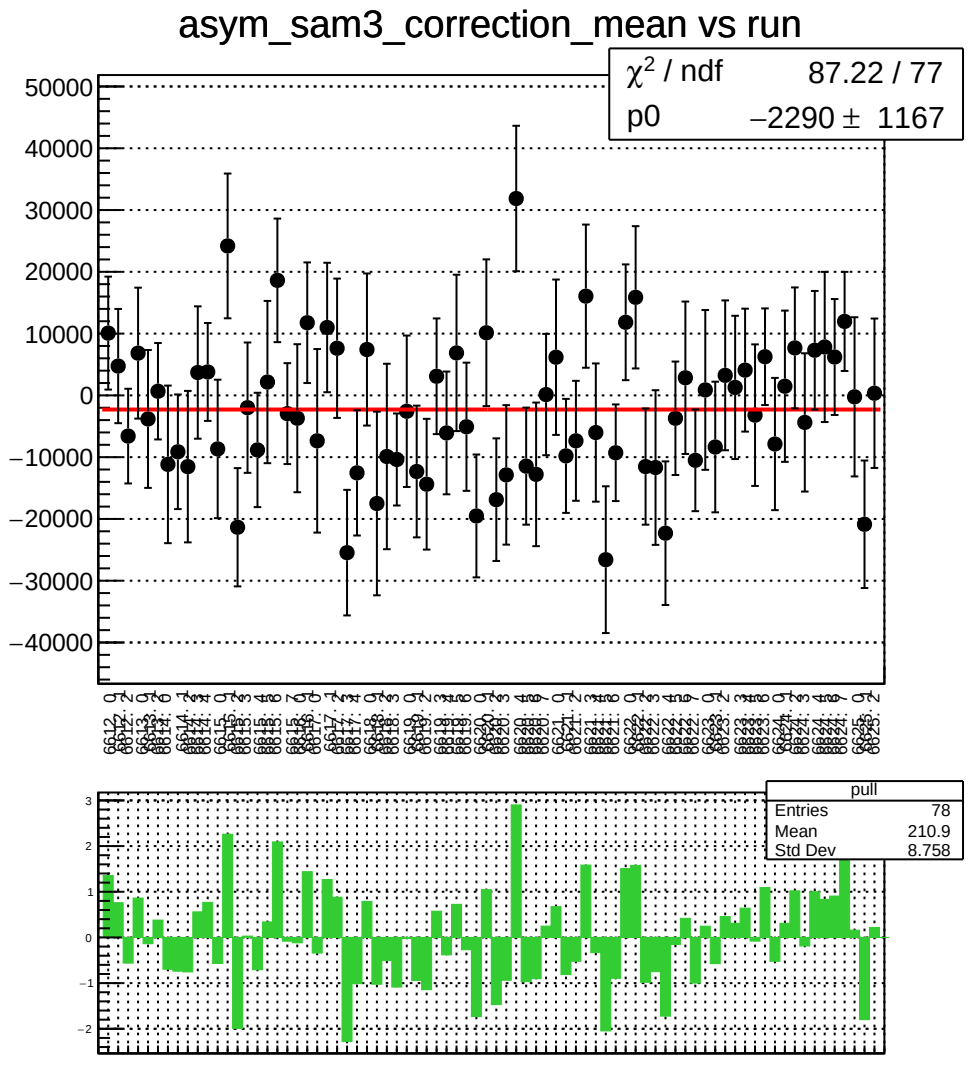

pull1D
Entries 78
Mean −0.0005024
Std Dev 1.015

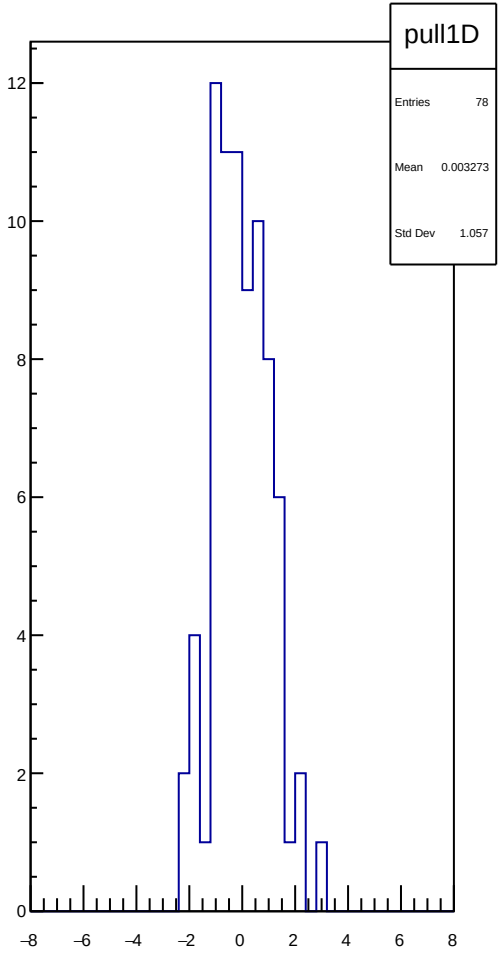

asym_sam2_correction_rms vs run
χ² / ndf 1.173e+04 / 77
p0 2082 ± 1.68
2800
2600
2400
2200
2000
1800

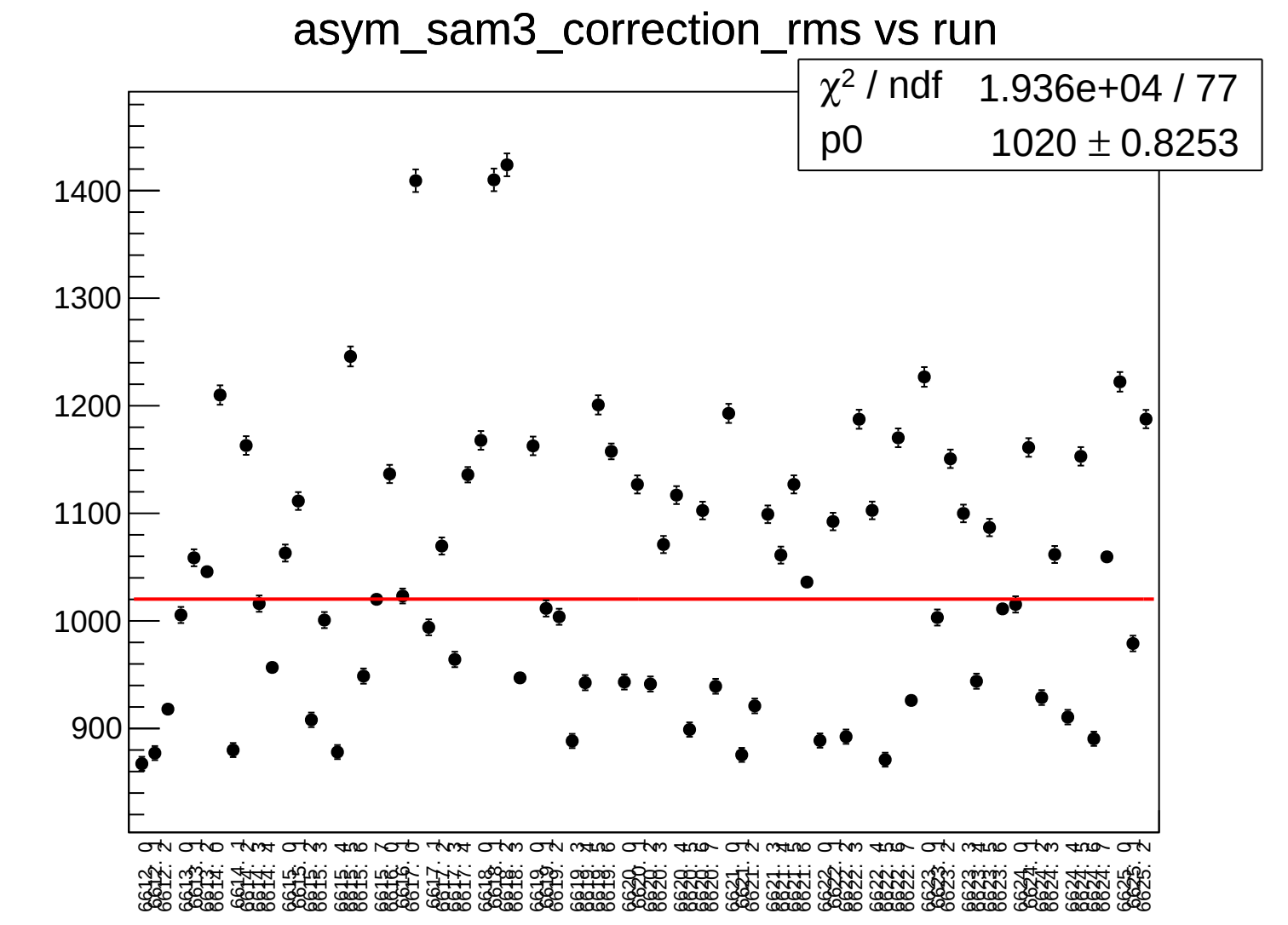

reg_asym_sam3_mean vs run
χ² / ndf 74.9 / 77
p0 325.2 ± 126.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 78
Mean −48.04
Std Dev 84
2
1
0
−1
−2

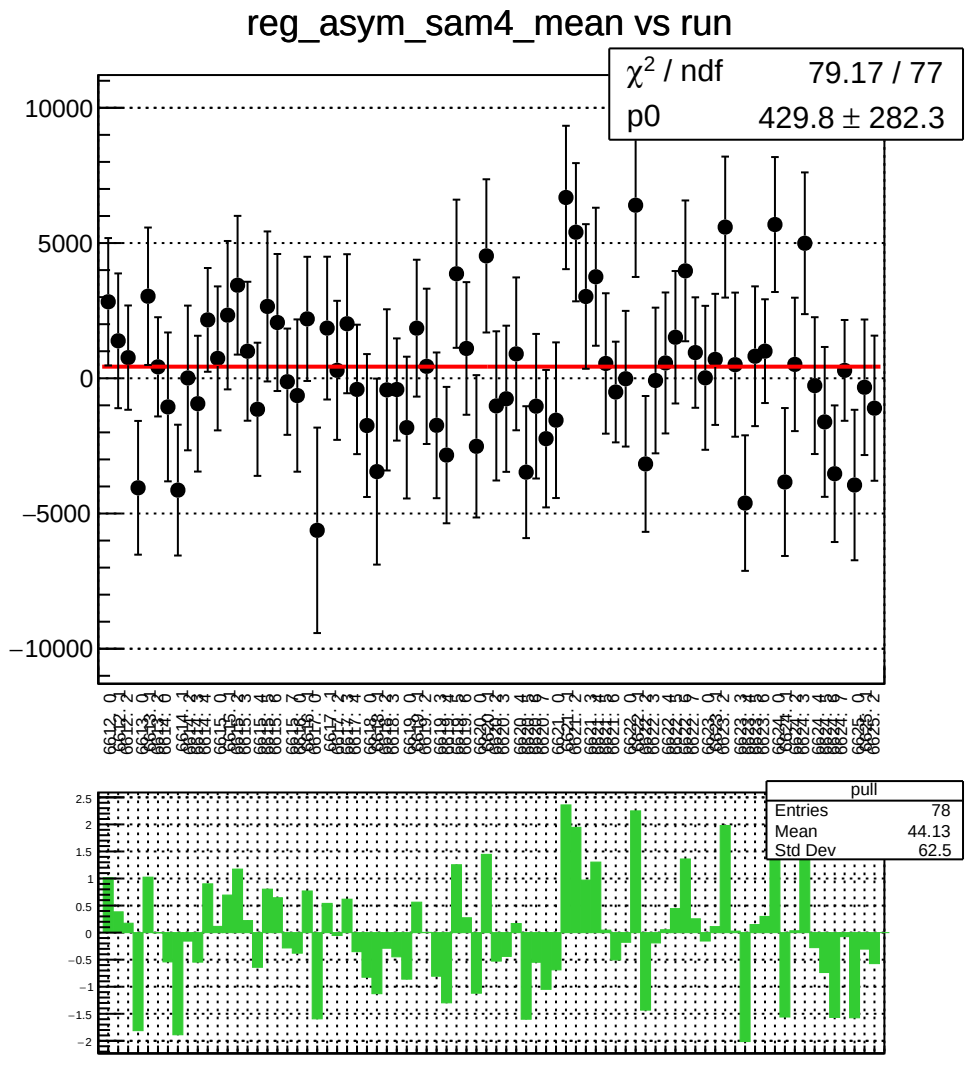

pull1D
Entries 78
Mean −0.03072
Std Dev 0.9794
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

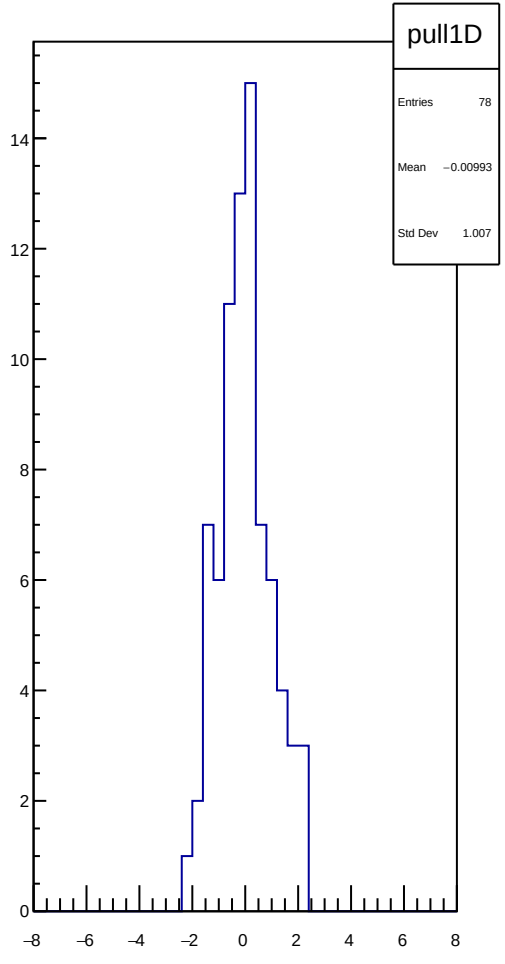

reg_asym_sam3_rms vs run
χ^2 / ndf 5.923e+04 / 77
p0 109.3 ± 0.08956
260
240
220
200
180
160
140
120
100
80

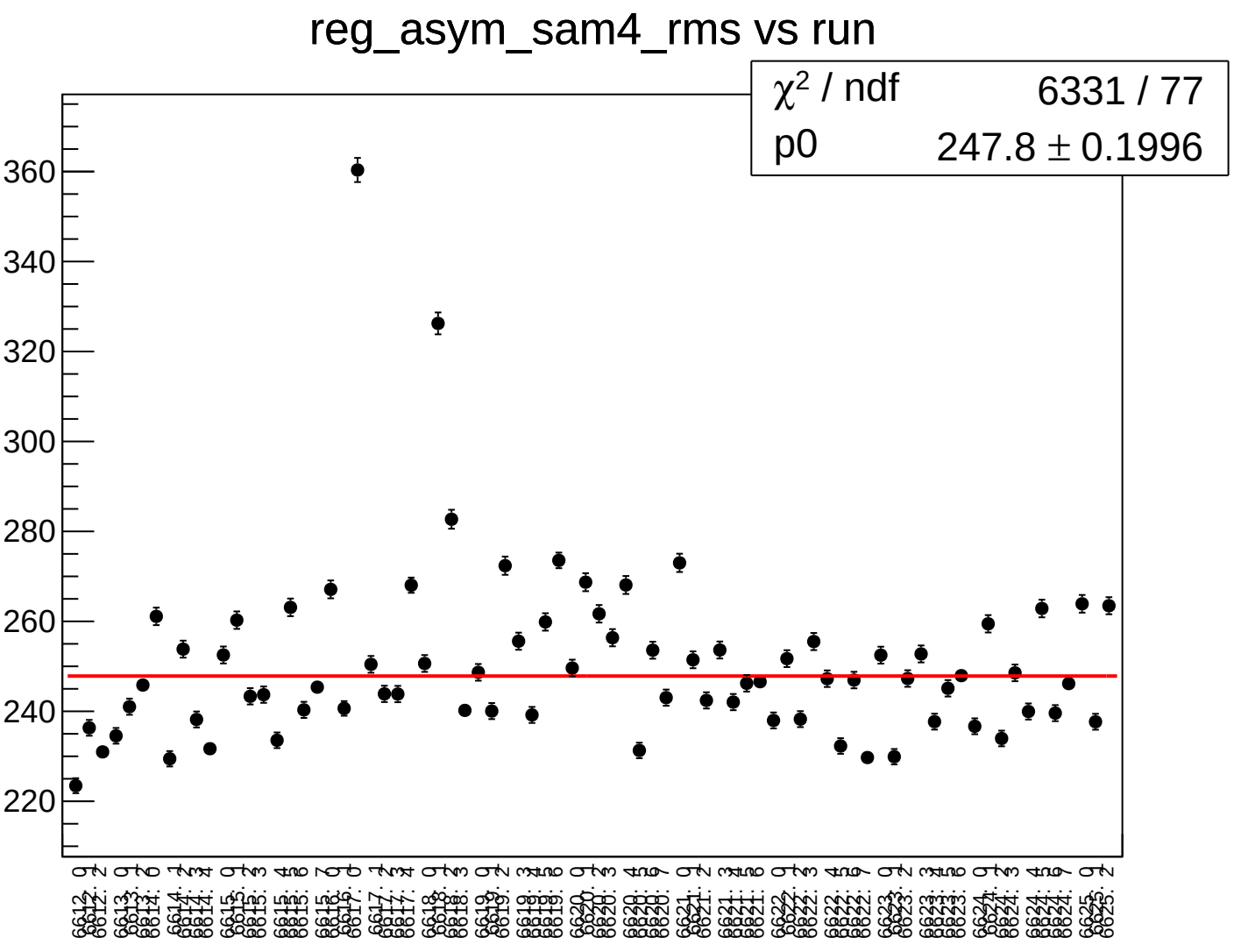

asym_sam3_correction_mean vs run
χ² / ndf 87.22 / 77
p0 −2290 ± 1167
pull
Entries 78
Mean 210.9
Std Dev 8.758

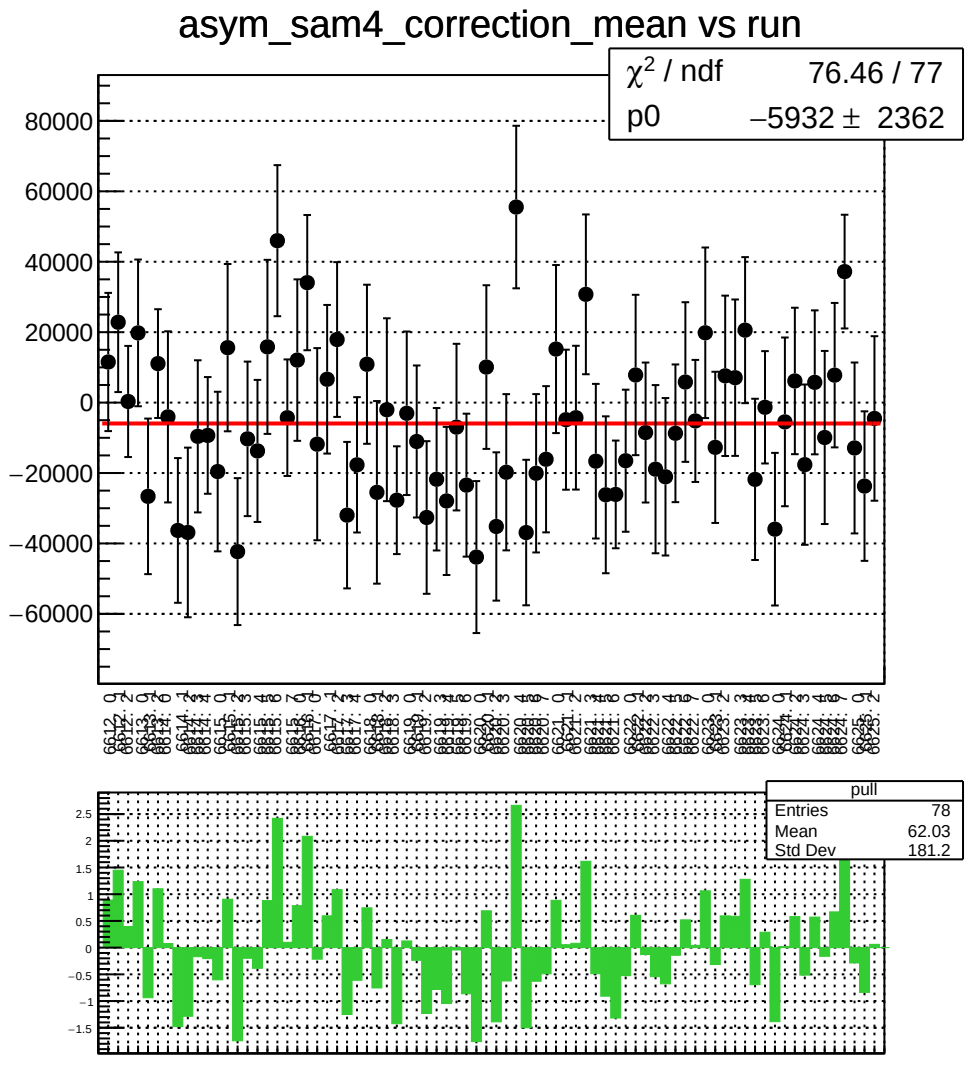

pull1D
Entries 78
Mean 0.003273
Std Dev 1.057

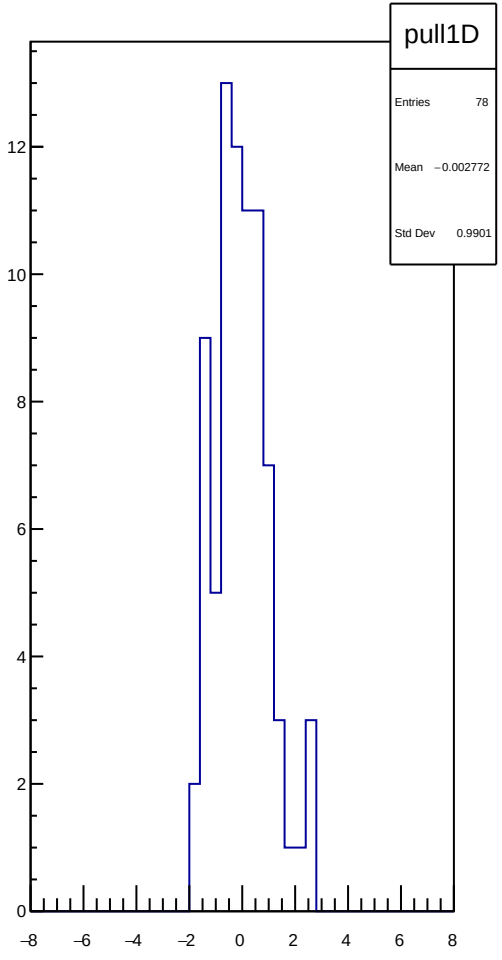

asym_sam3_correction_rms vs run
χ² / ndf 1.936e+04 / 77
p0 1020 ± 0.8253
1400
1300
1200
1100
1000
900

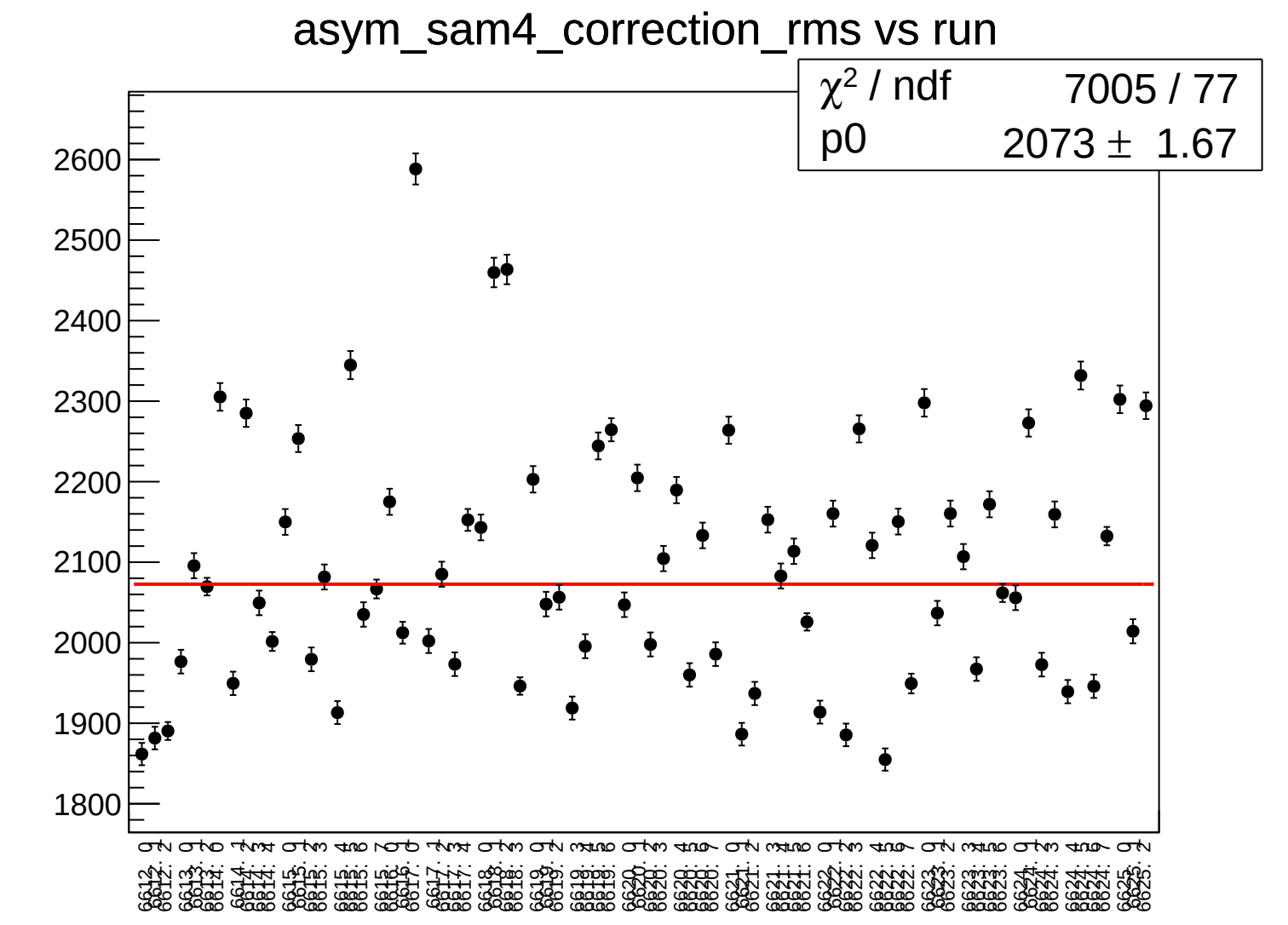

reg_asym_sam4_mean vs run
χ² / ndf 79.17 / 77
p0 429.8 ± 282.3
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 44.13
Std Dev 62.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

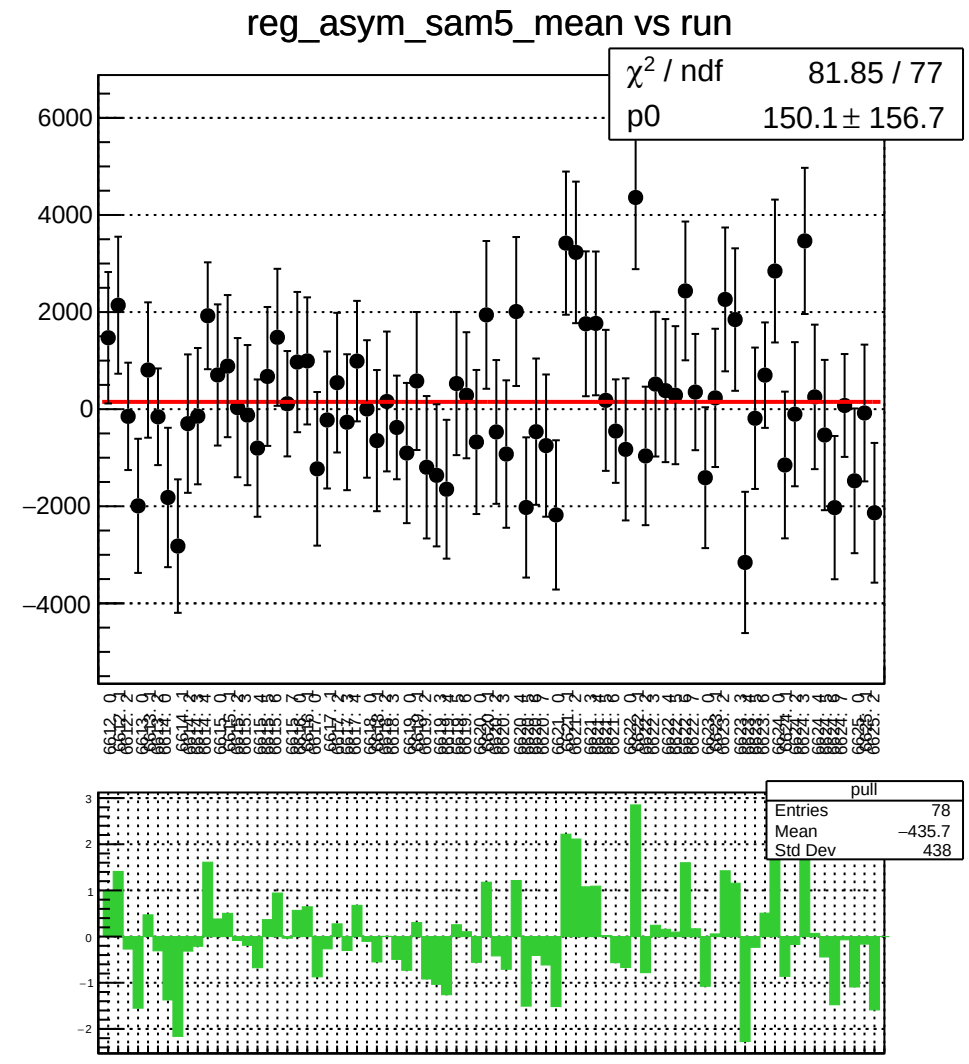

pull1D
Entries 78
Mean −0.00993
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

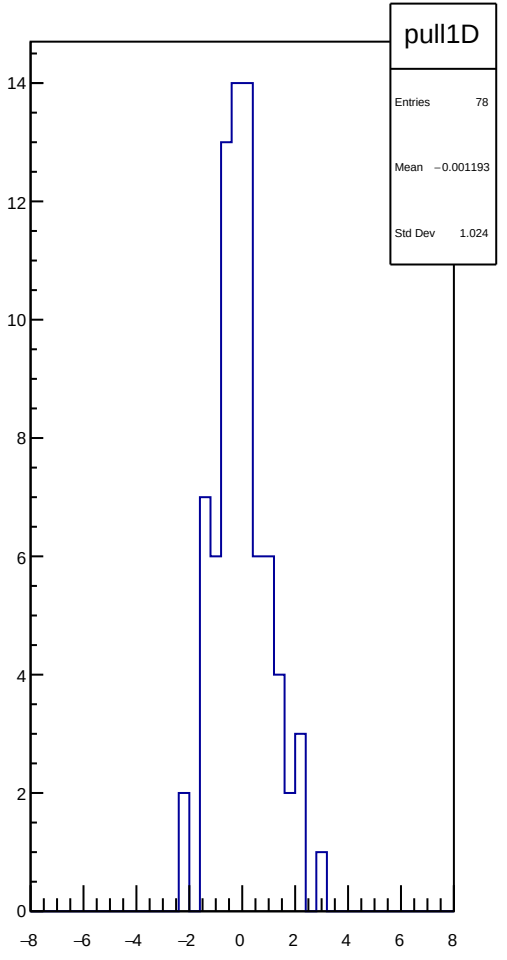

reg_asym_sam4_rms vs run
χ^2 / ndf 6331 / 77
p0 247.8 ± 0.1996
360
340
320
300
280
260
240
220

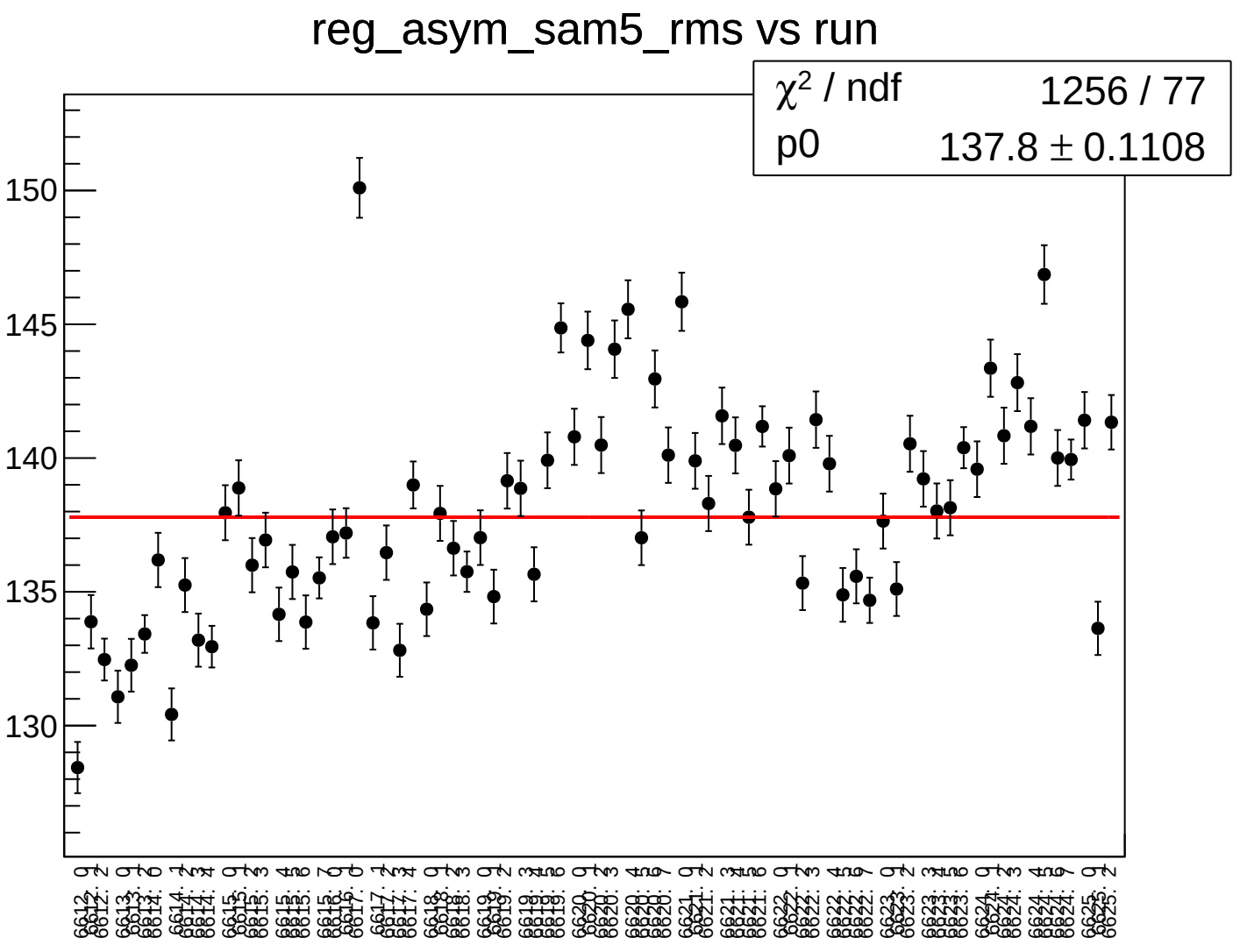

asym_sam4_correction_mean vs run
χ² / ndf 76.46 / 77
p0 −5932 ± 2362
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 62.03
Std Dev 181.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

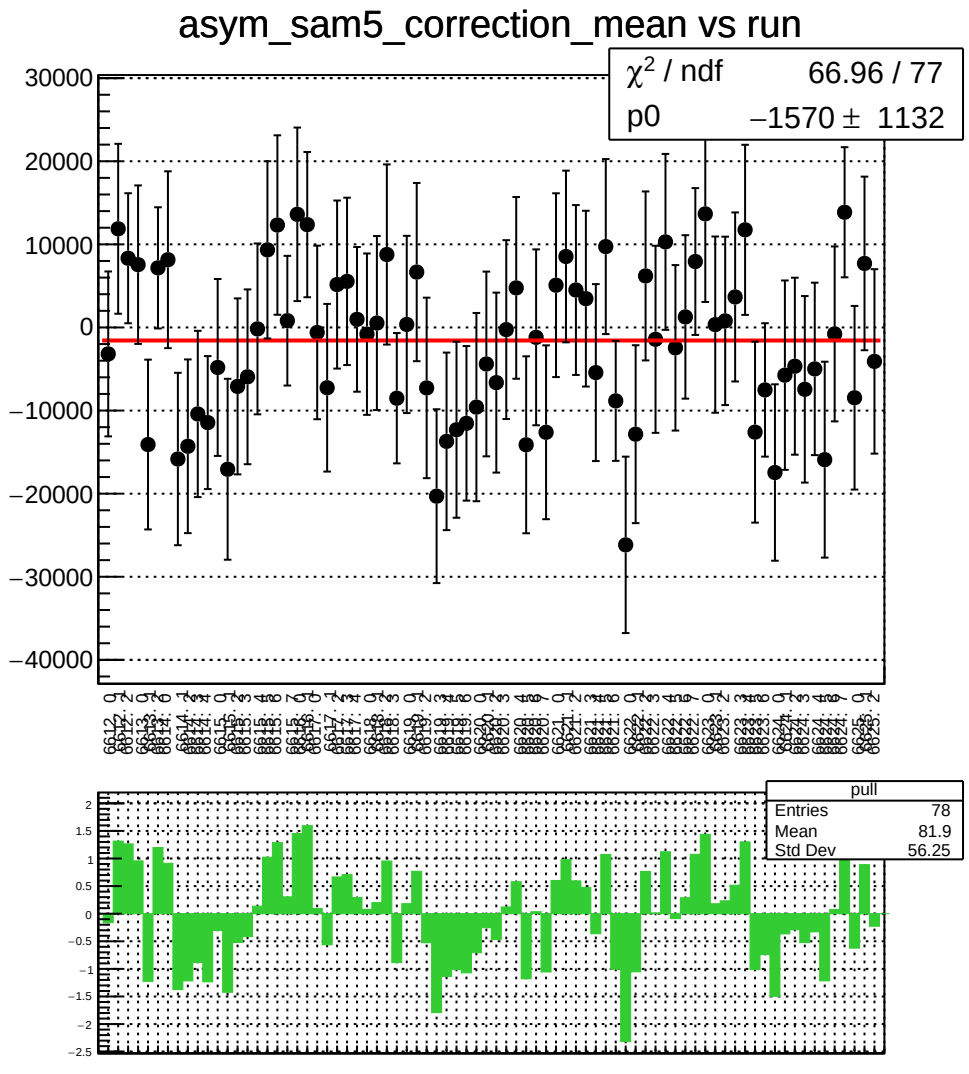

pull1D
Entries 78
Mean −0.002772
Std Dev 0.9901
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

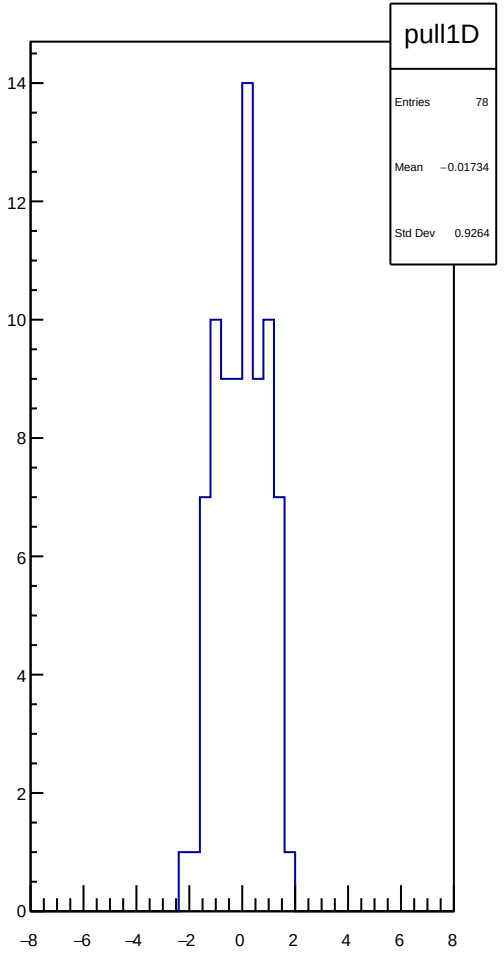

asym_sam4_correction_rms vs run
χ² / ndf 7005 / 77
p0 2073 ± 1.67
2600
2500
2400
2300
2200
2100
2000
1900
1800

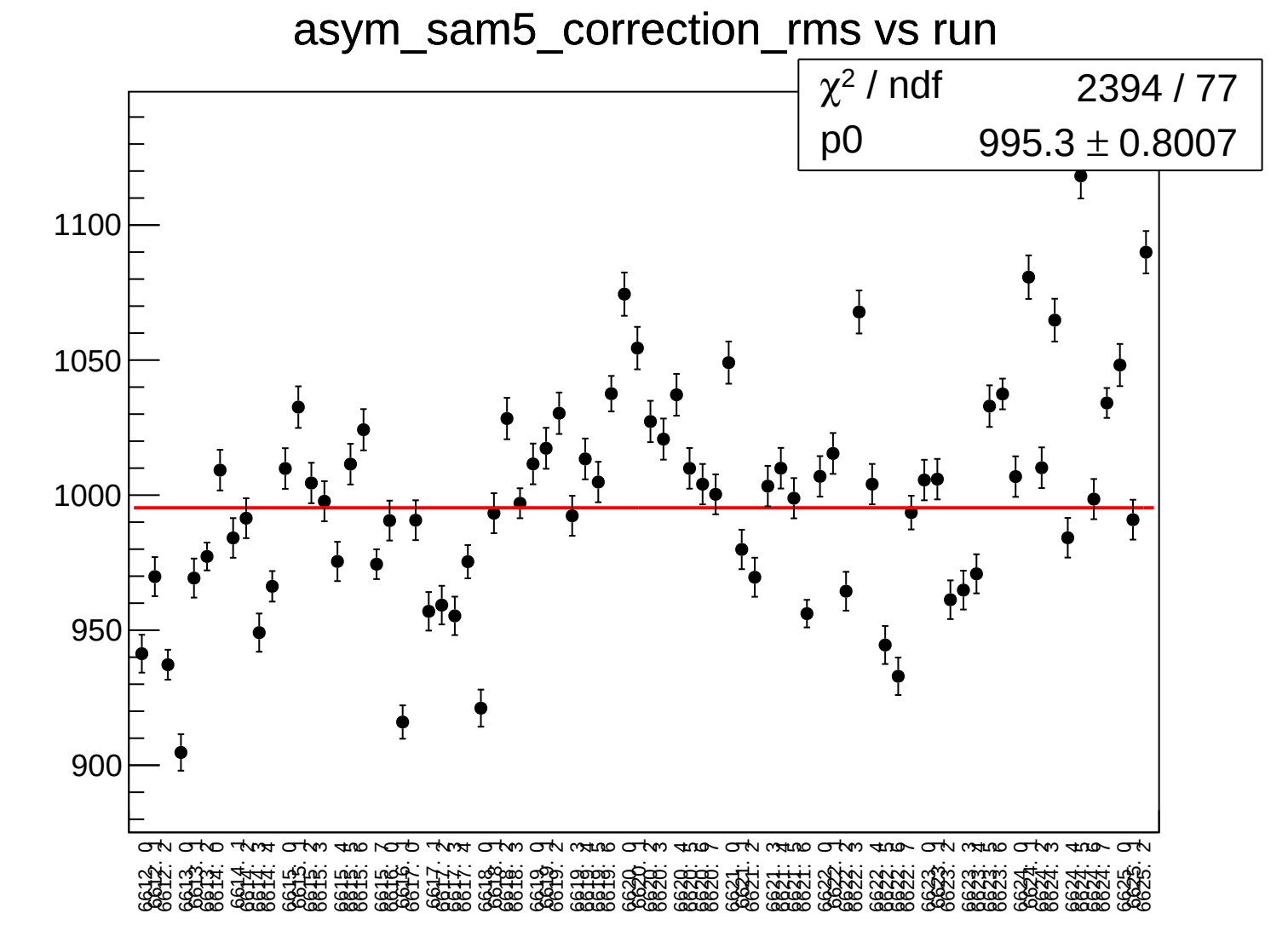

reg_asym_sam5_mean vs run
χ² / ndf 81.85 / 77
p0 150.1 ± 156.7
6000
4000
2000
0
−2000
−4000
pull
Entries 78
Mean −435.7
Std Dev 438
3
2
1
0
−1
−2

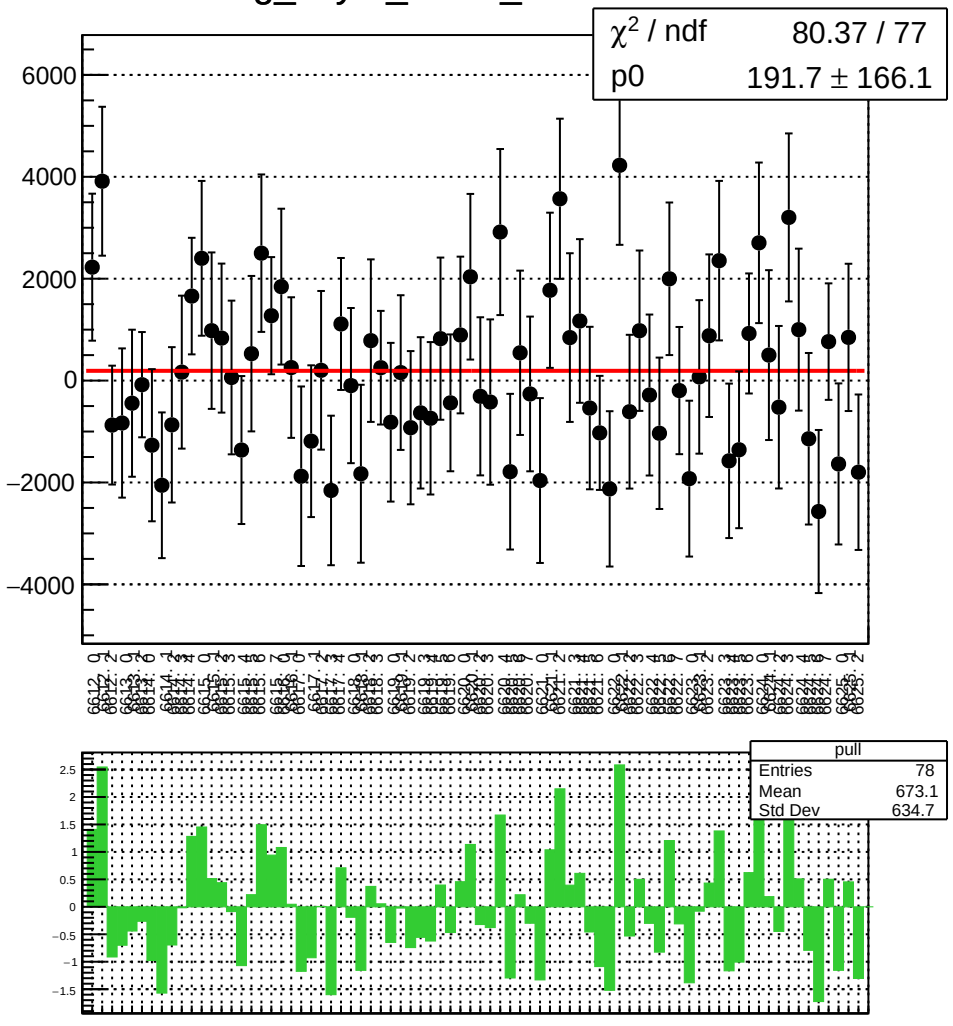

pull1D
Entries 78
Mean −0.001193
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

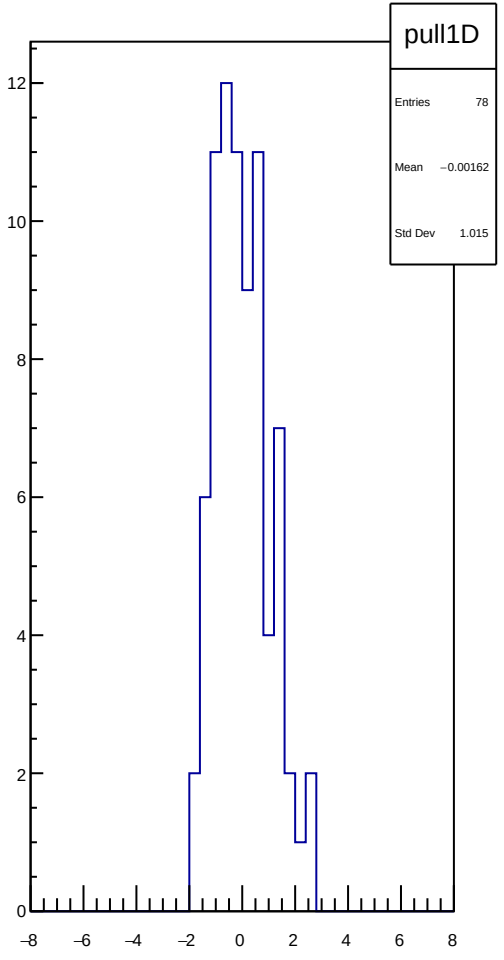

reg_asym_sam5_rms vs run
χ² / ndf 1256 / 77
p0 137.8 ± 0.1108
150
145
140
135
130

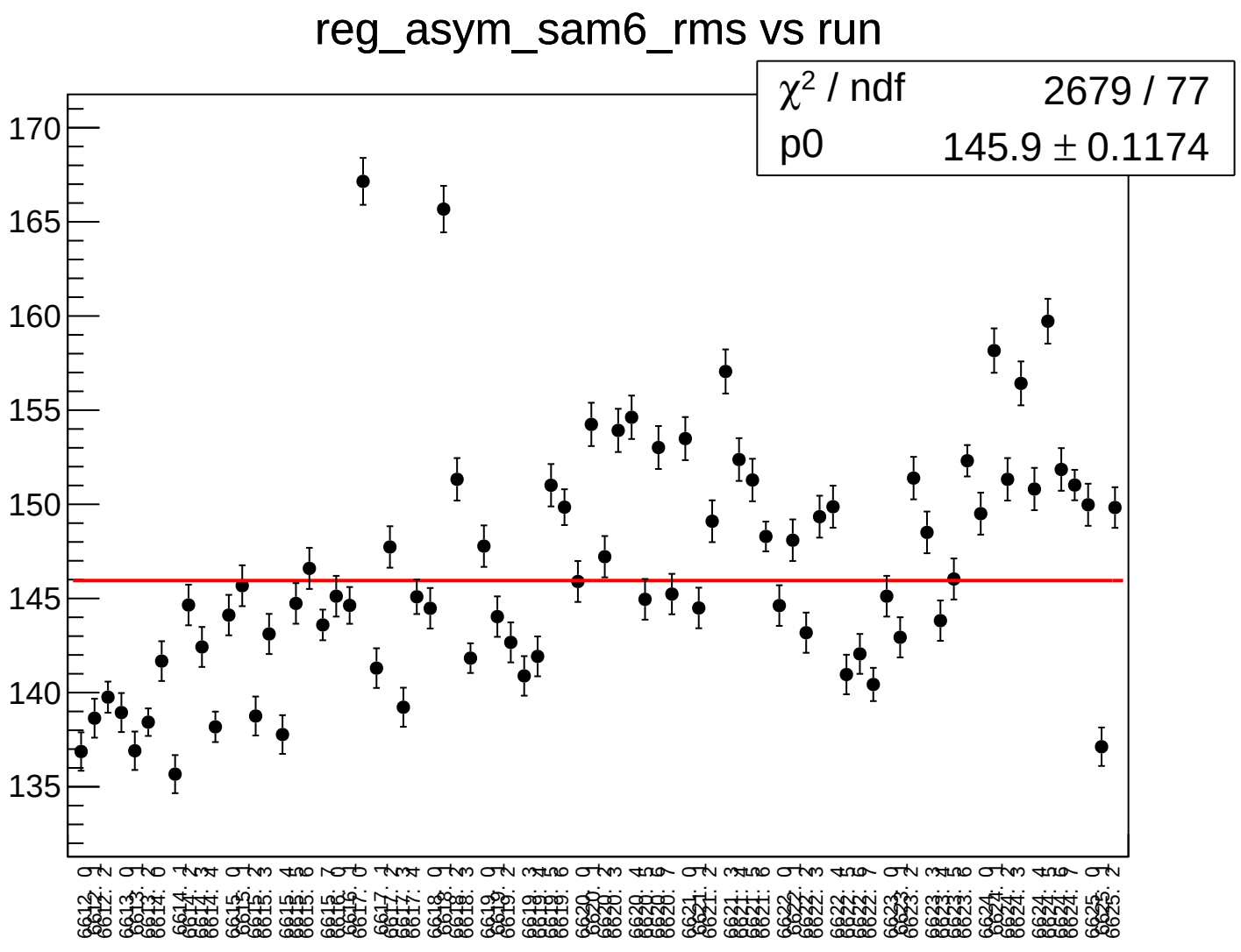

asym_sam5_correction_mean vs run
χ² / ndf 66.96 / 77
p0 −1570 ± 1132
pull
Entries 78
Mean 81.9
Std Dev 56.25

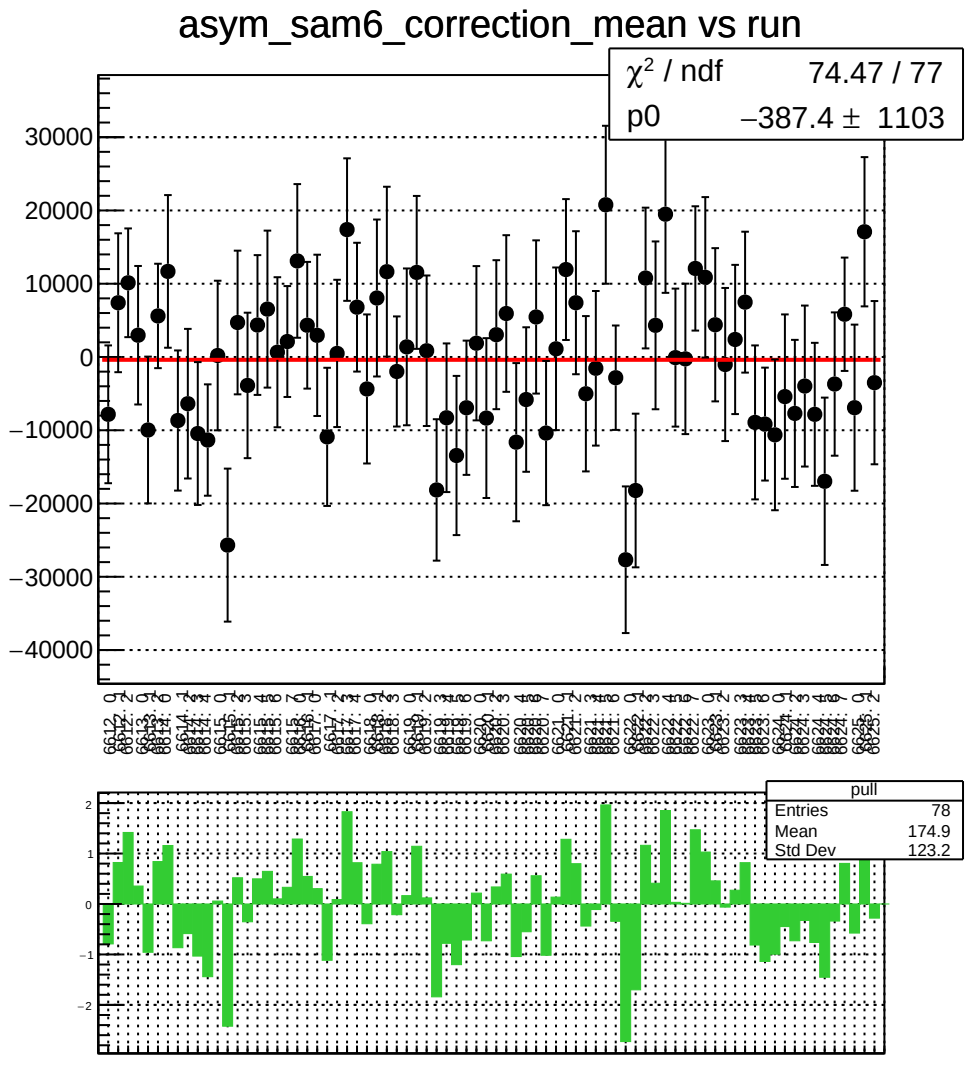

pull1D
Entries 78
Mean −0.01734
Std Dev 0.9264

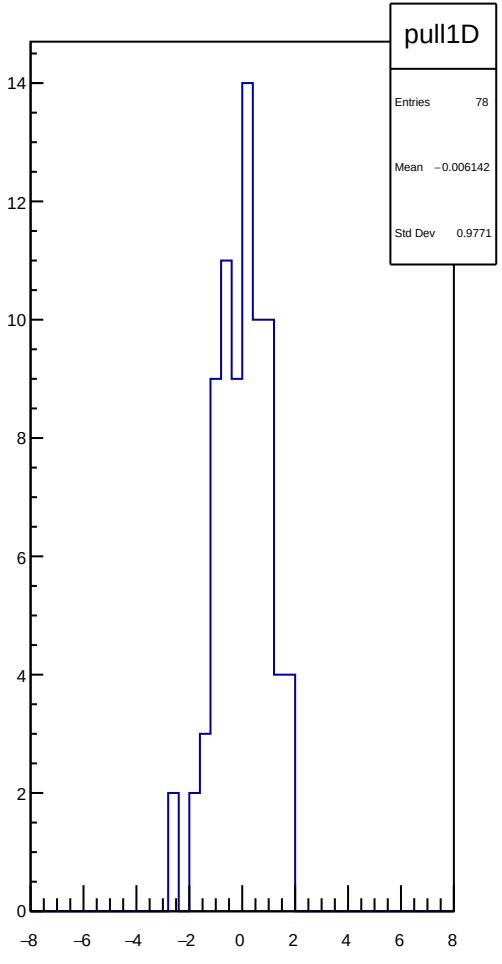

asym_sam5_correction_rms vs run
χ² / ndf 2394 / 77
p0 995.3 ± 0.8007
1100
1050
1000
950
900

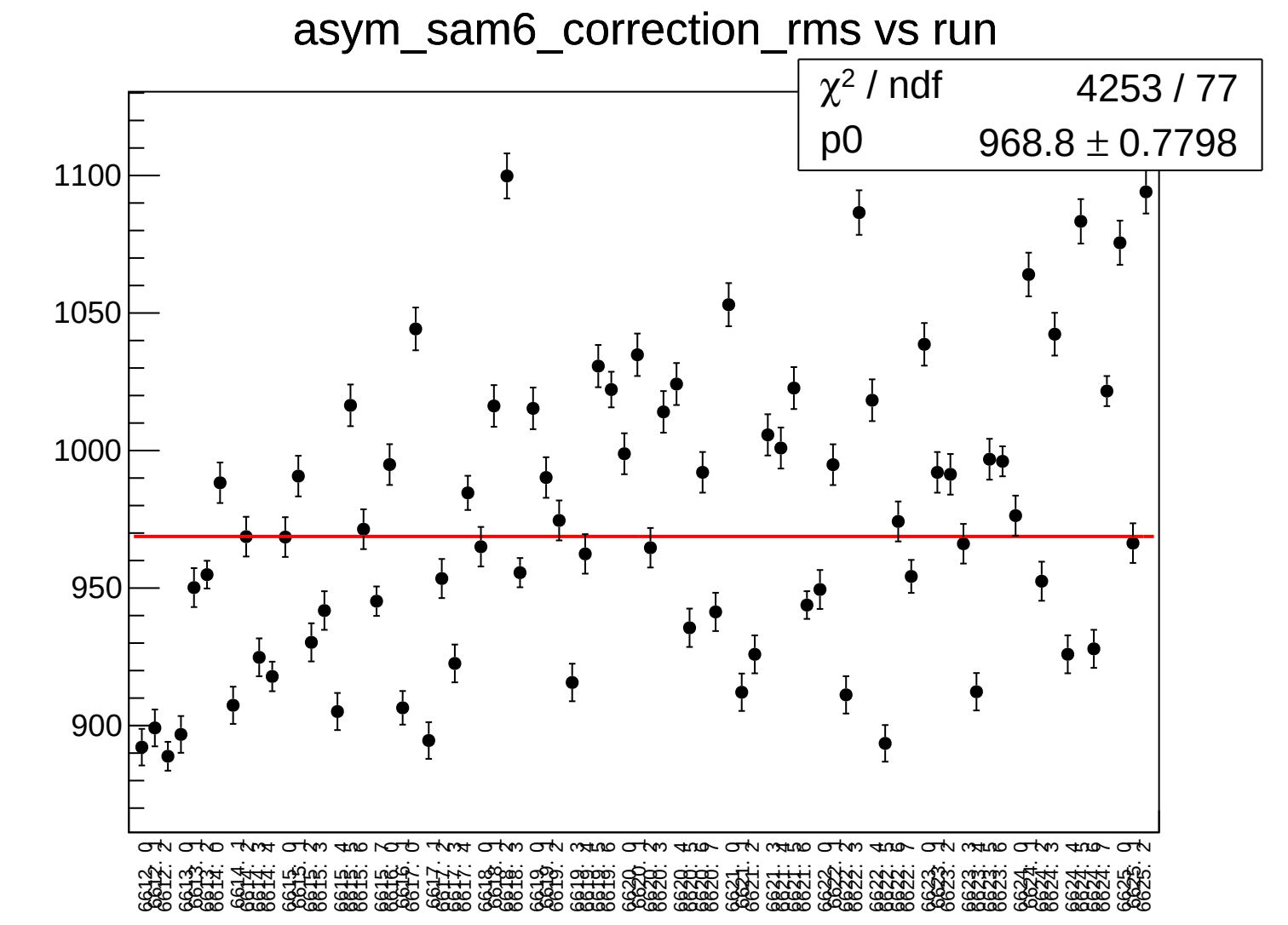

reg_asym_sam6_mean vs run
χ² / ndf 80.37 / 77
p0 191.7 ± 166.1
6000
4000
2000
0
−2000
−4000
pull
Entries 78
Mean 673.1
Std Dev 634.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

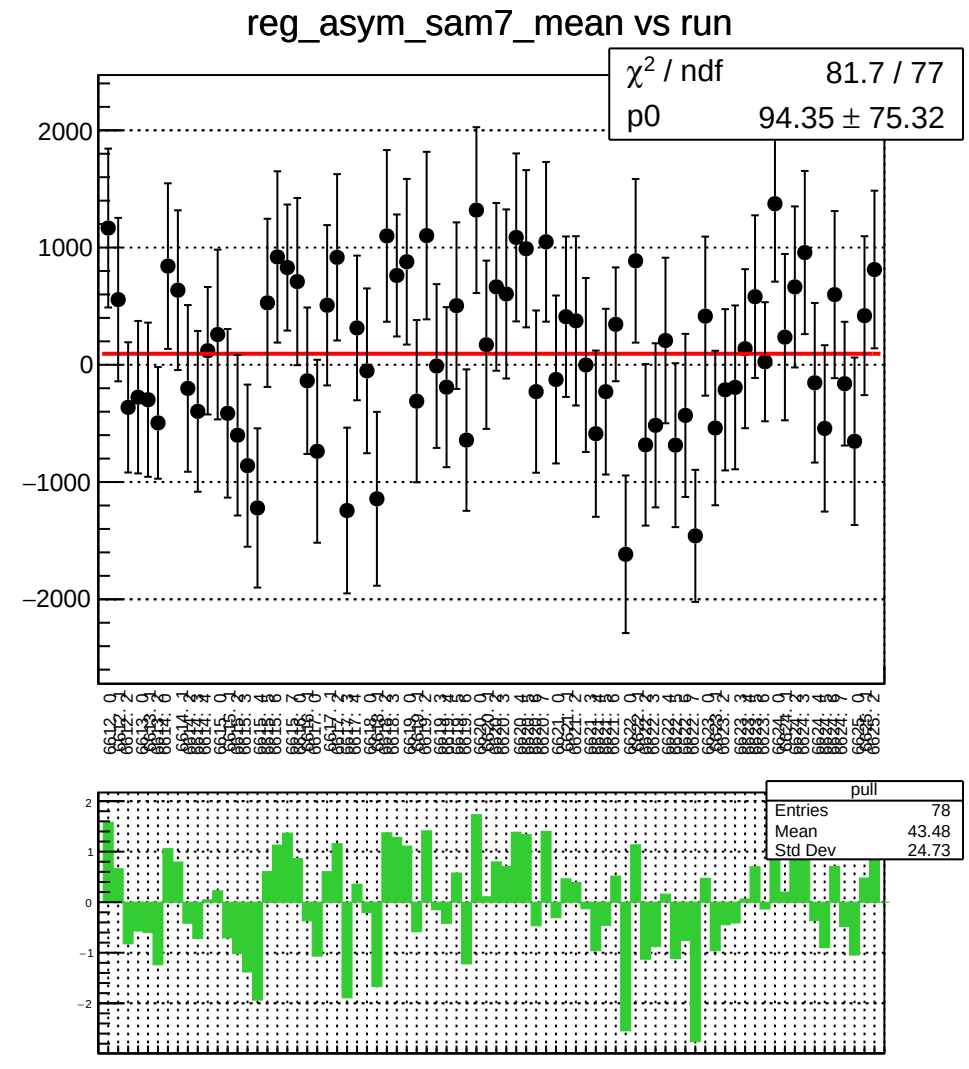

pull1D
Entries 78
Mean −0.00162
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

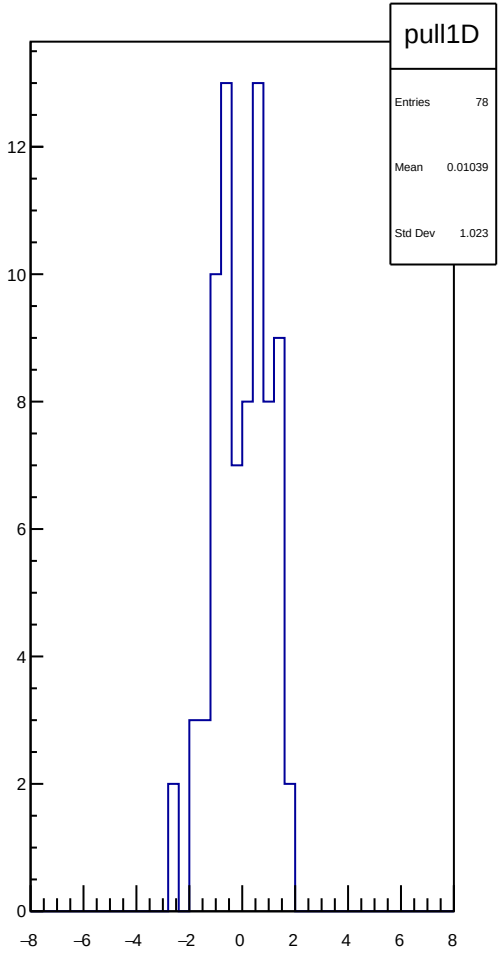

reg_asym_sam6_rms vs run
χ² / ndf 2679 / 77
p0 145.9 ± 0.1174
170
165
160
155
150
145
140
135

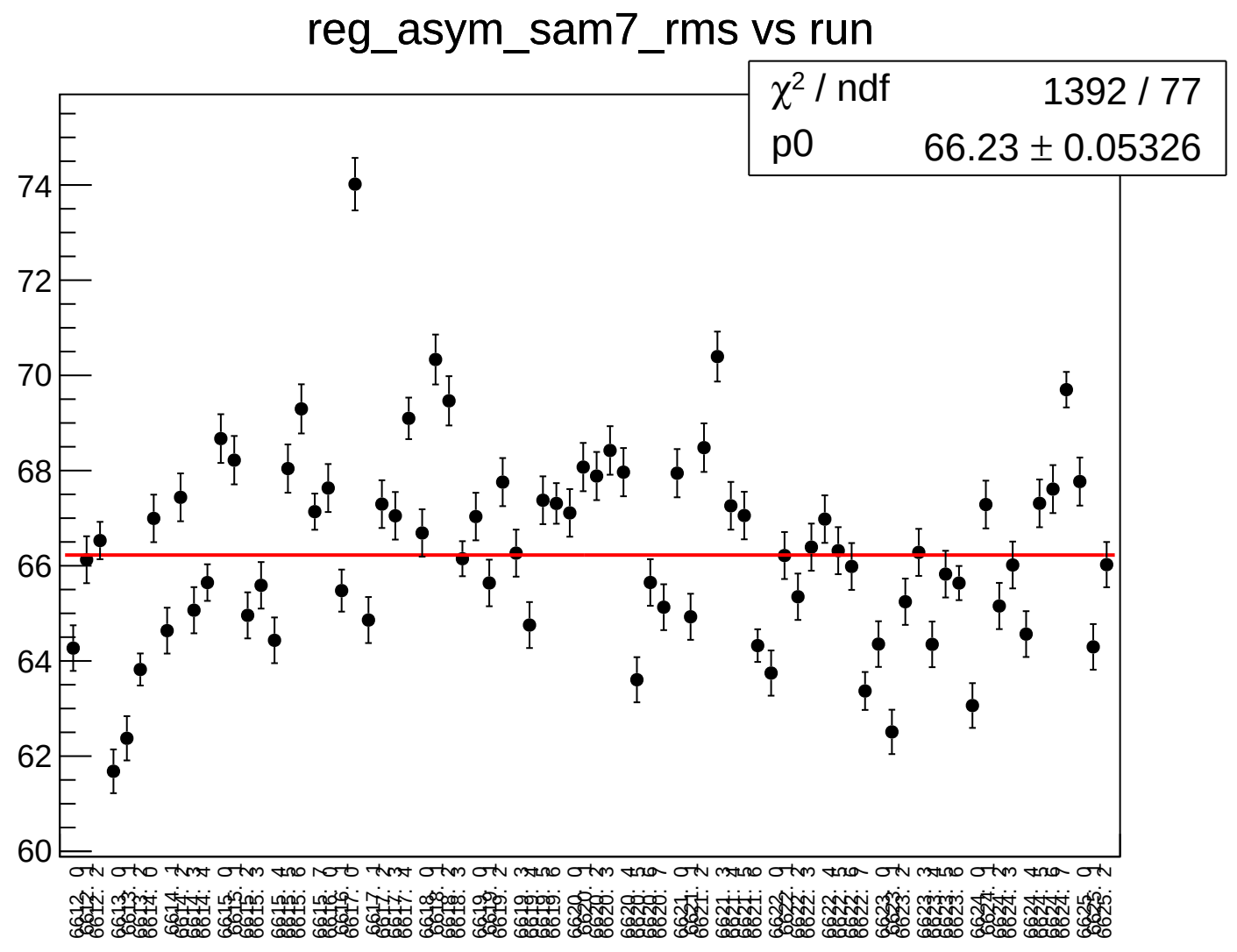

asym_sam6_correction_mean vs run
χ² / ndf 74.47 / 77
p0 −387.4 ± 1103
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 78
Mean 174.9
Std Dev 123.2
2
1
0
−1
−2

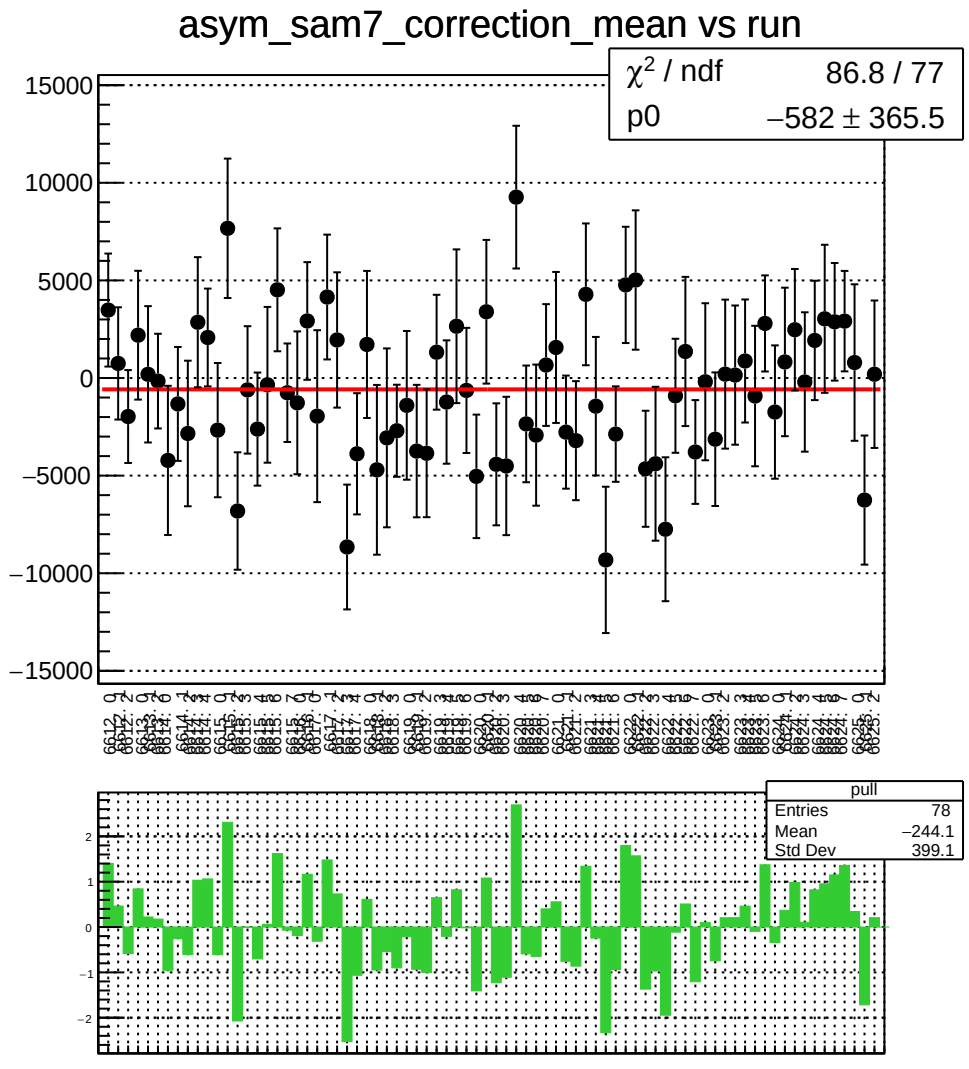

pull1D
Entries 78
Mean −0.006142
Std Dev 0.9771
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

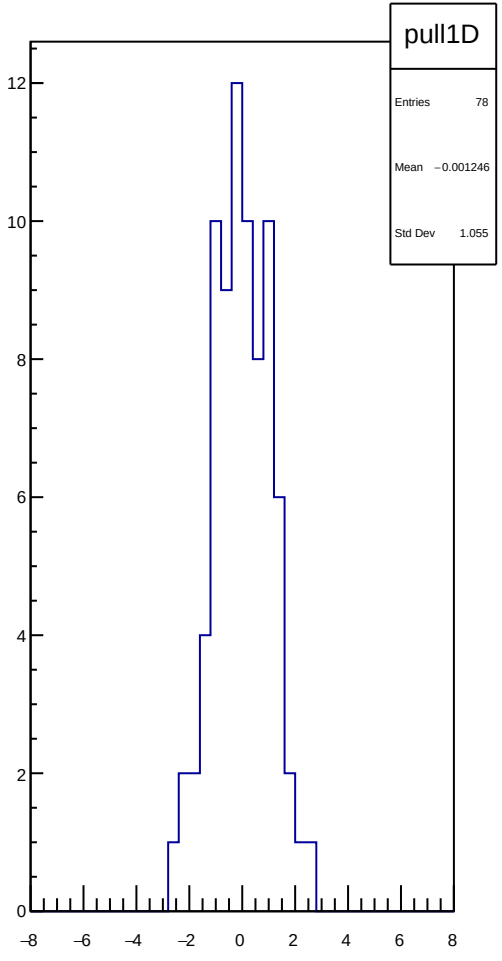

asym_sam6_correction_rms vs run
χ² / ndf 4253 / 77
p0 968.8 ± 0.7798
1100
1050
1000
950
900

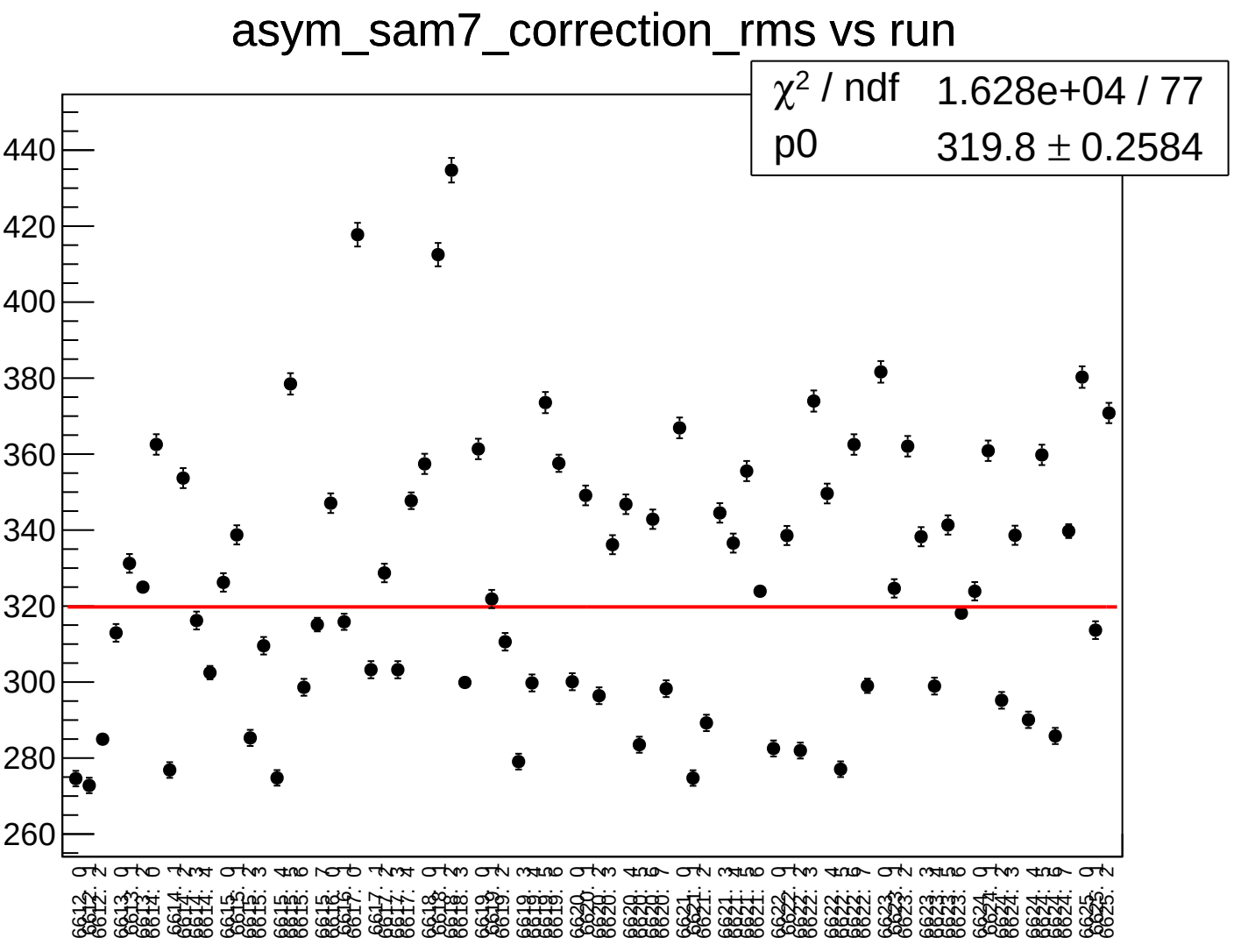

reg_asym_sam7_mean vs run
χ² / ndf 81.7 / 77
p0 94.35 ± 75.32
2000
1000
0
−1000
−2000
pull
Entries 78
Mean 43.48
Std Dev 24.73
2
1
0
−1
−2

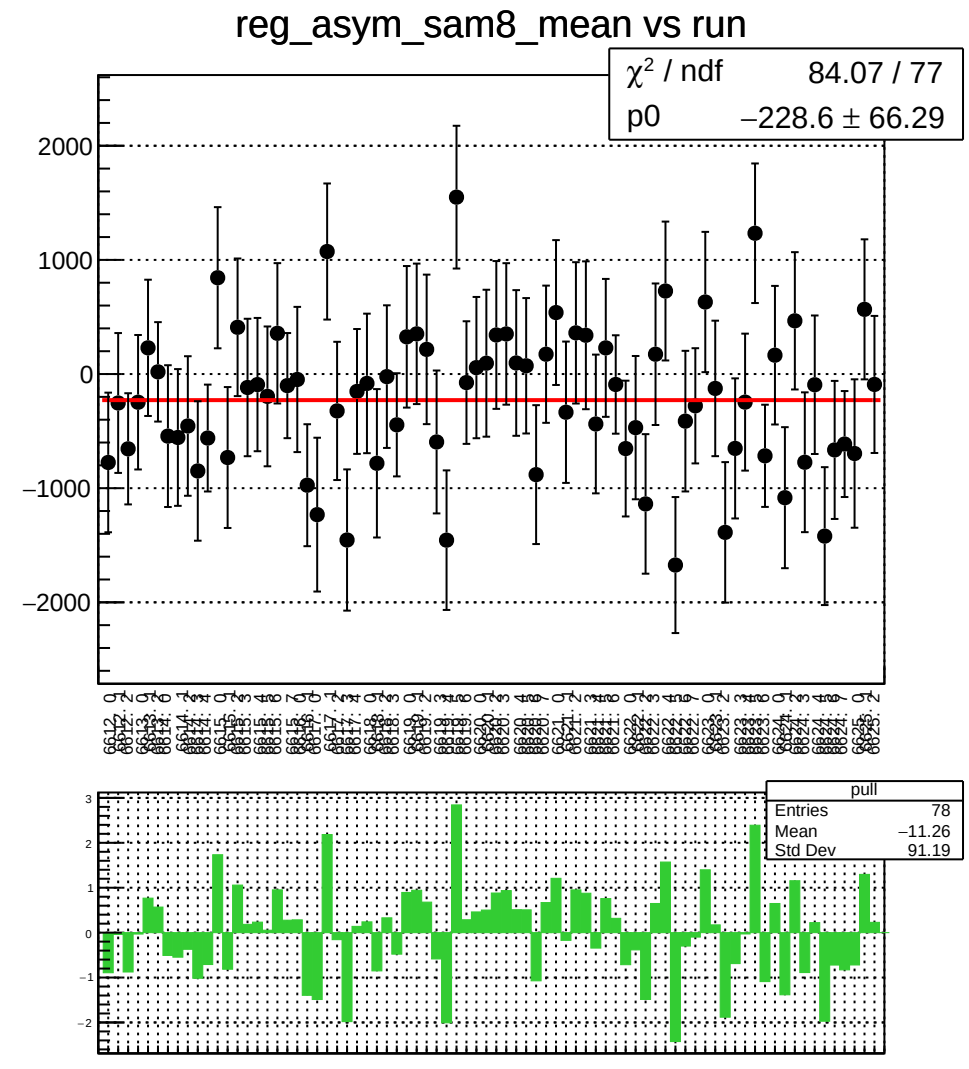

pull1D
Entries 78
Mean 0.01039
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

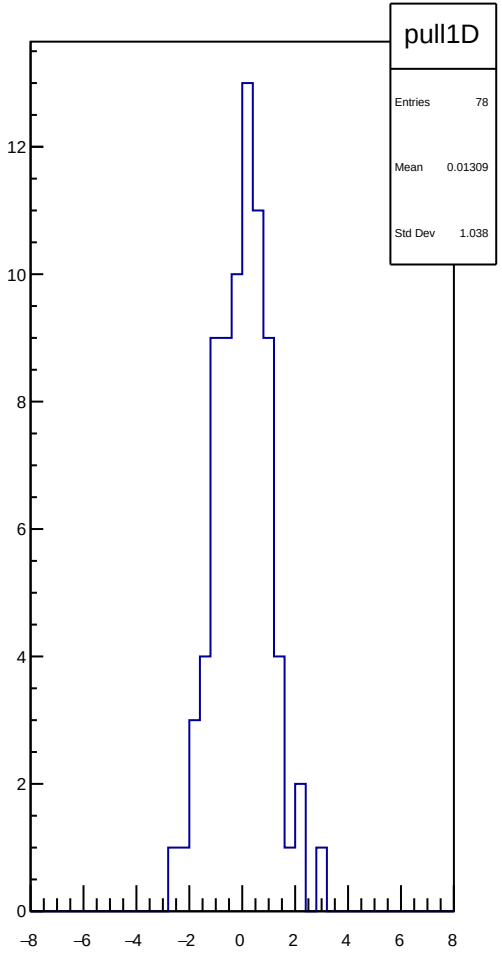

reg_asym_sam7_rms vs run
χ² / ndf 1392 / 77
p0 66.23 ± 0.05326
74
72
70
68
66
64
62
60

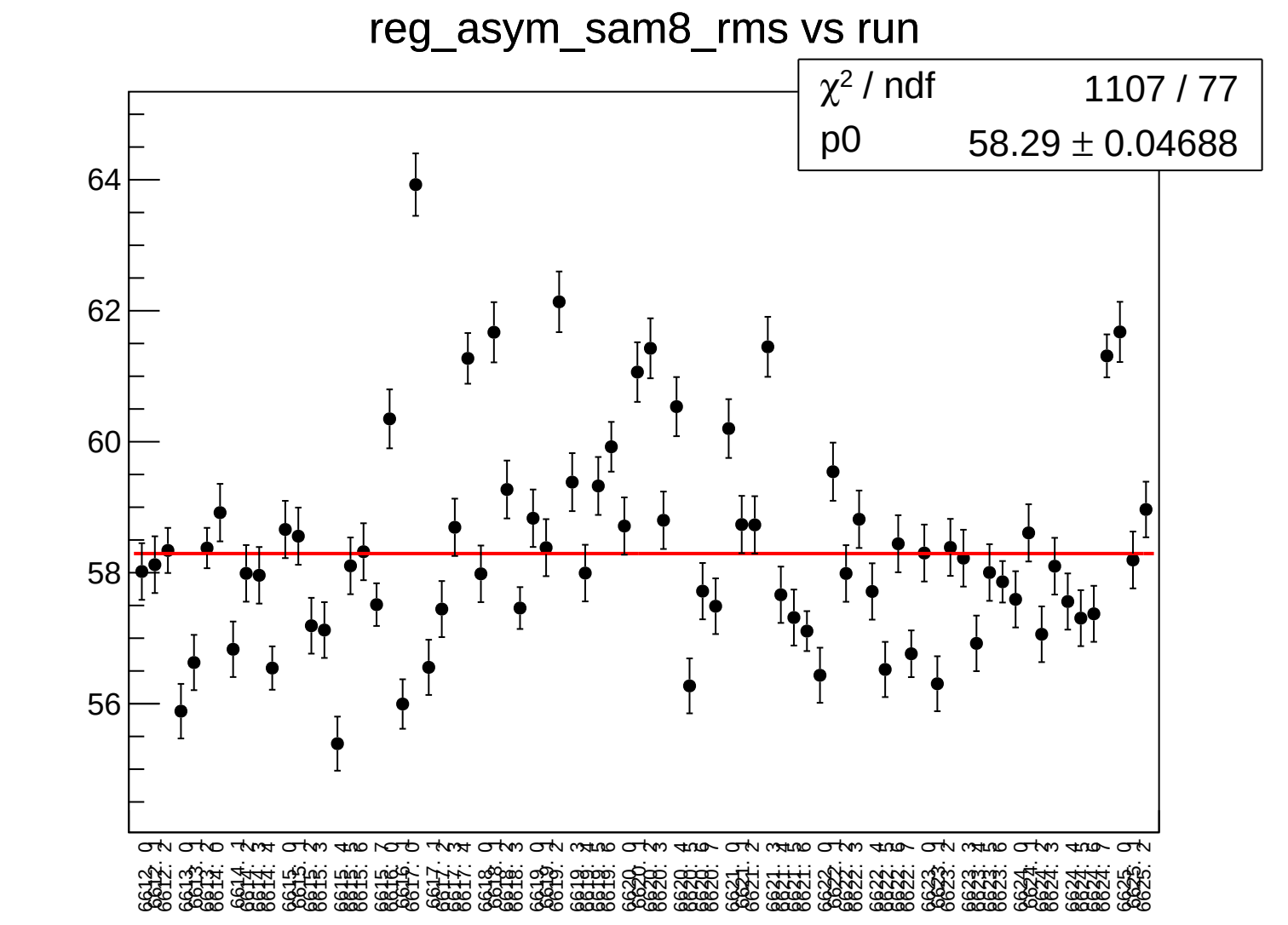

asym_sam7_correction_mean vs run
χ² / ndf 86.8 / 77
p0 −582 ± 365.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean −244.1
Std Dev 399.1
2
1
0
−1
−2

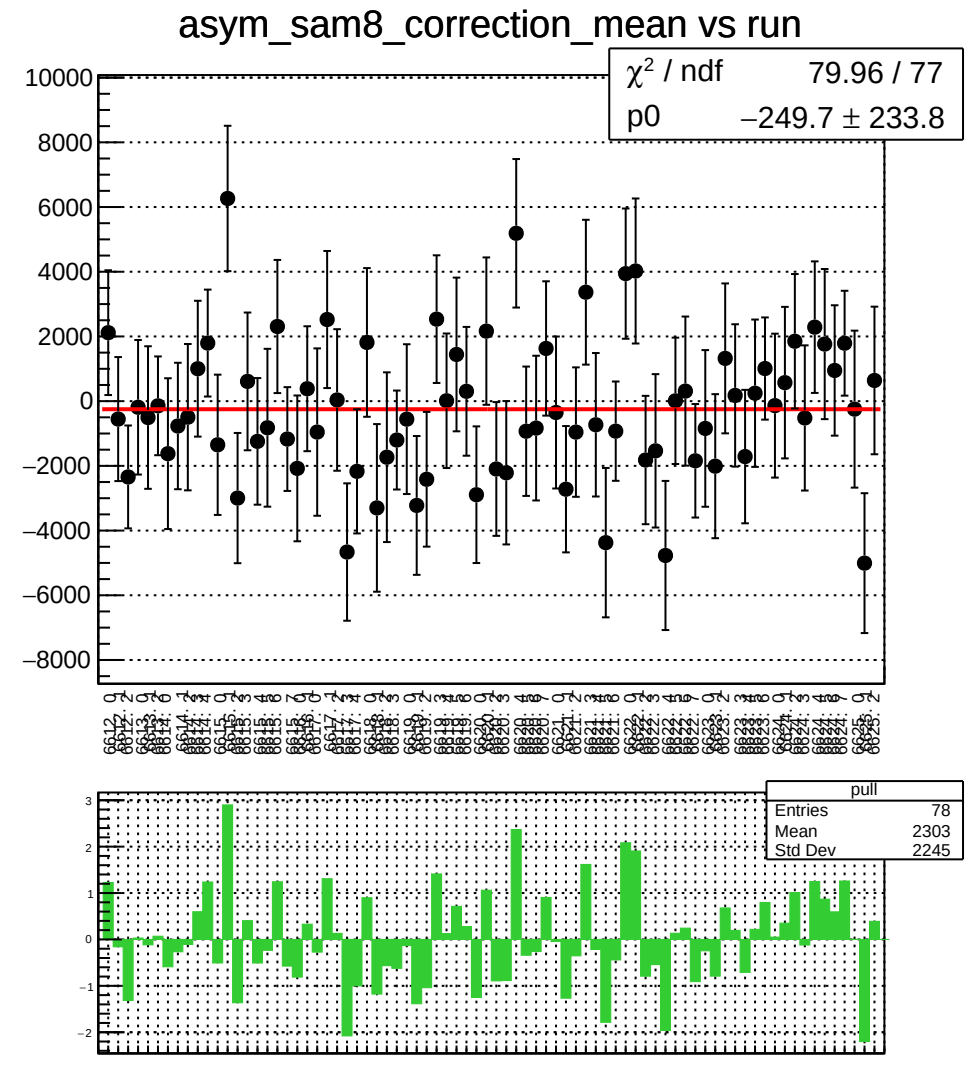

pull1D
Entries 78
Mean −0.001246
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

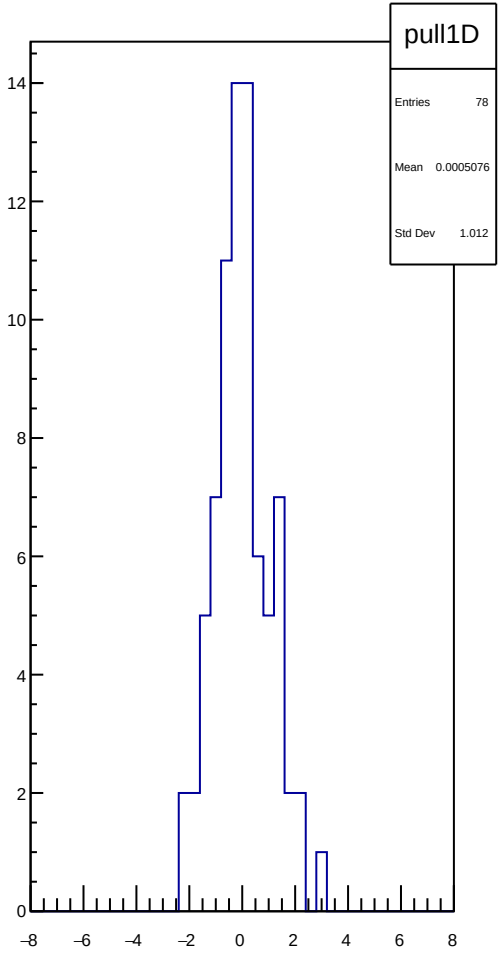

asym_sam7_correction_rms vs run
χ² / ndf 1.628e+04 / 77
p0 319.8 ± 0.2584
440
420
400
380
360
340
320
300
280
260

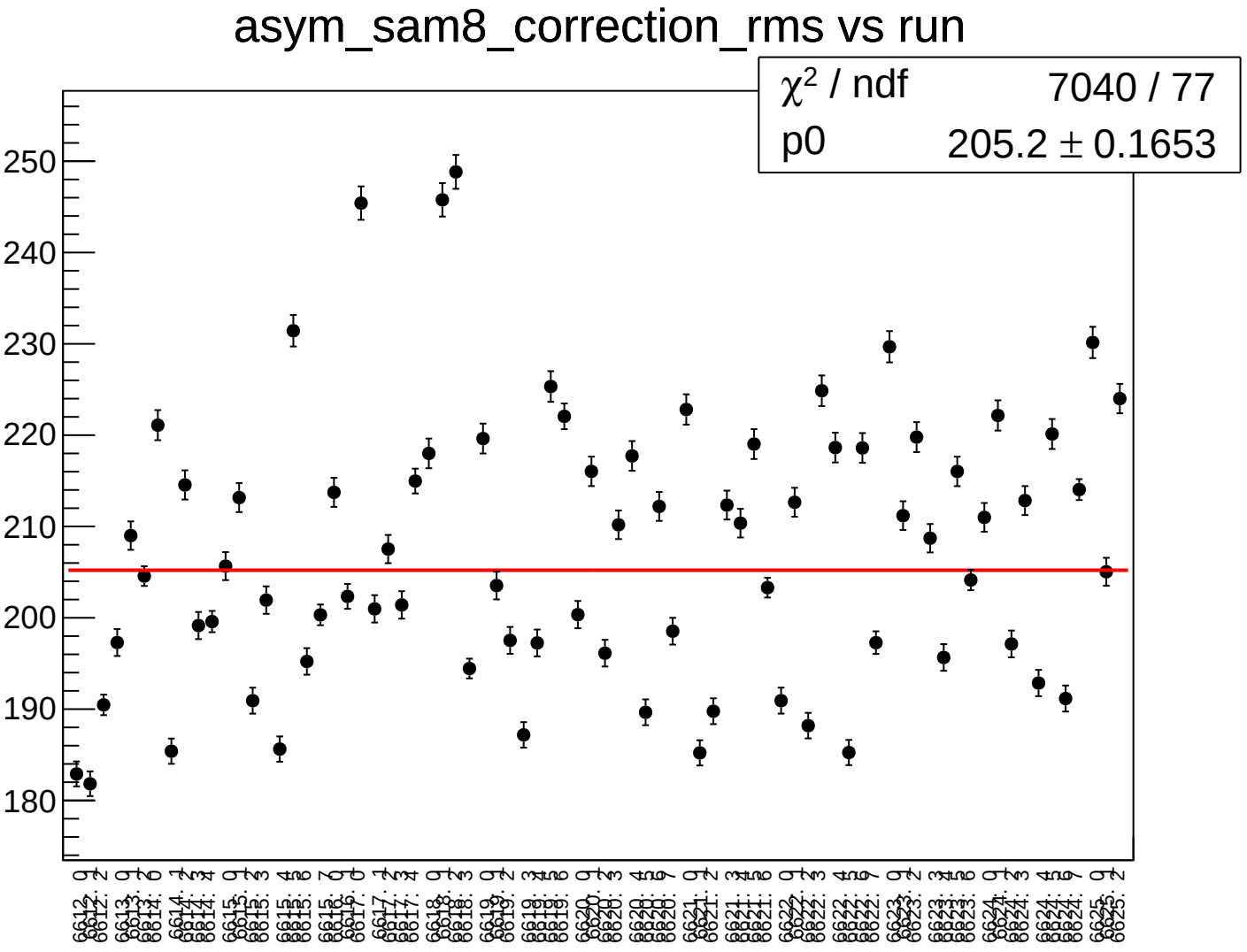

reg_asym_sam8_mean vs run
χ² / ndf 84.07 / 77
p0 −228.6 ± 66.29
2000
1000
0
−1000
−2000
pull
Entries 78
Mean −11.26
Std Dev 91.19
3
2
1
0
−1
−2

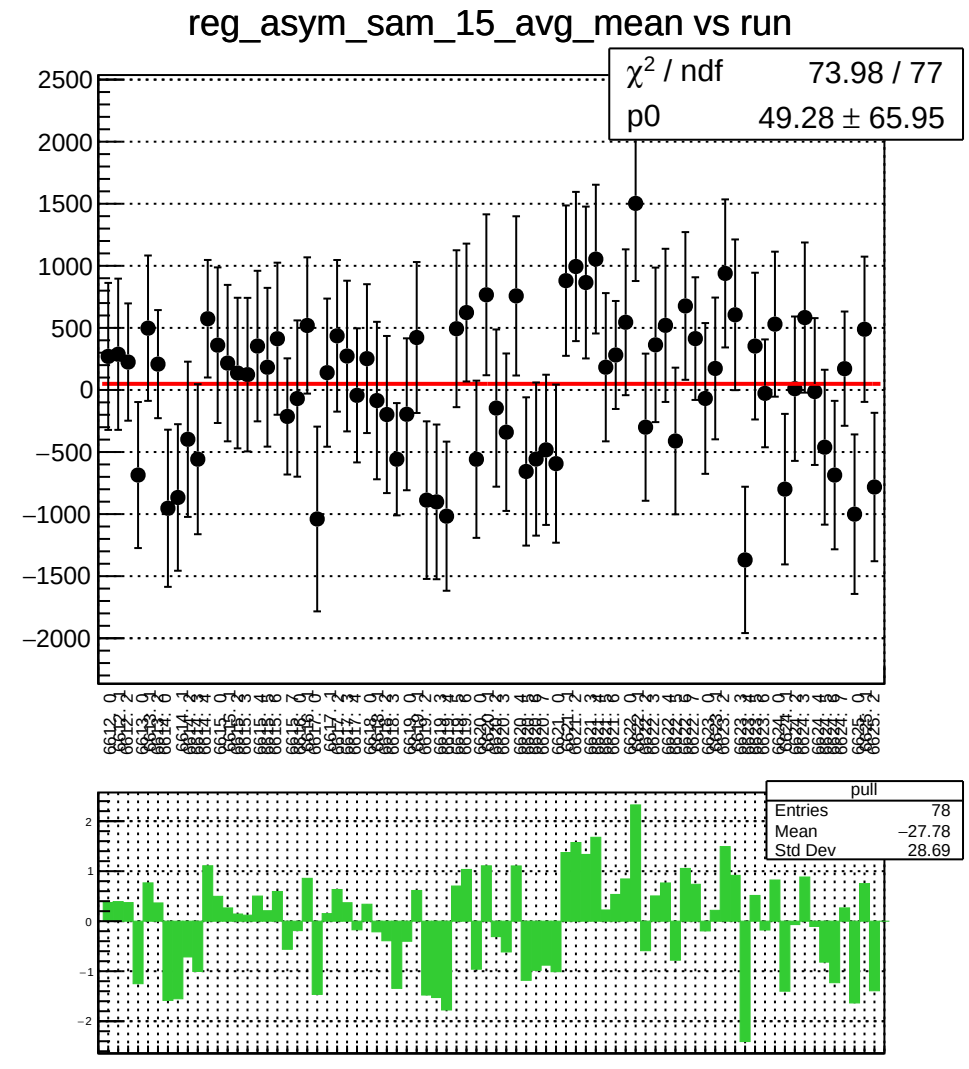

pull1D
Entries 78
Mean 0.01309
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

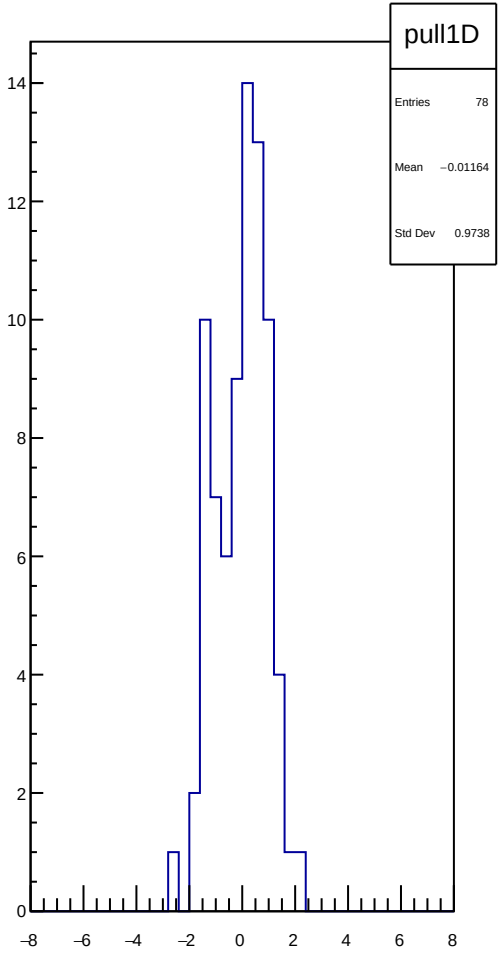

reg_asym_sam8_rms vs run
χ² / ndf 1107 / 77
p0 58.29 ± 0.04688
64
62
60
58
56

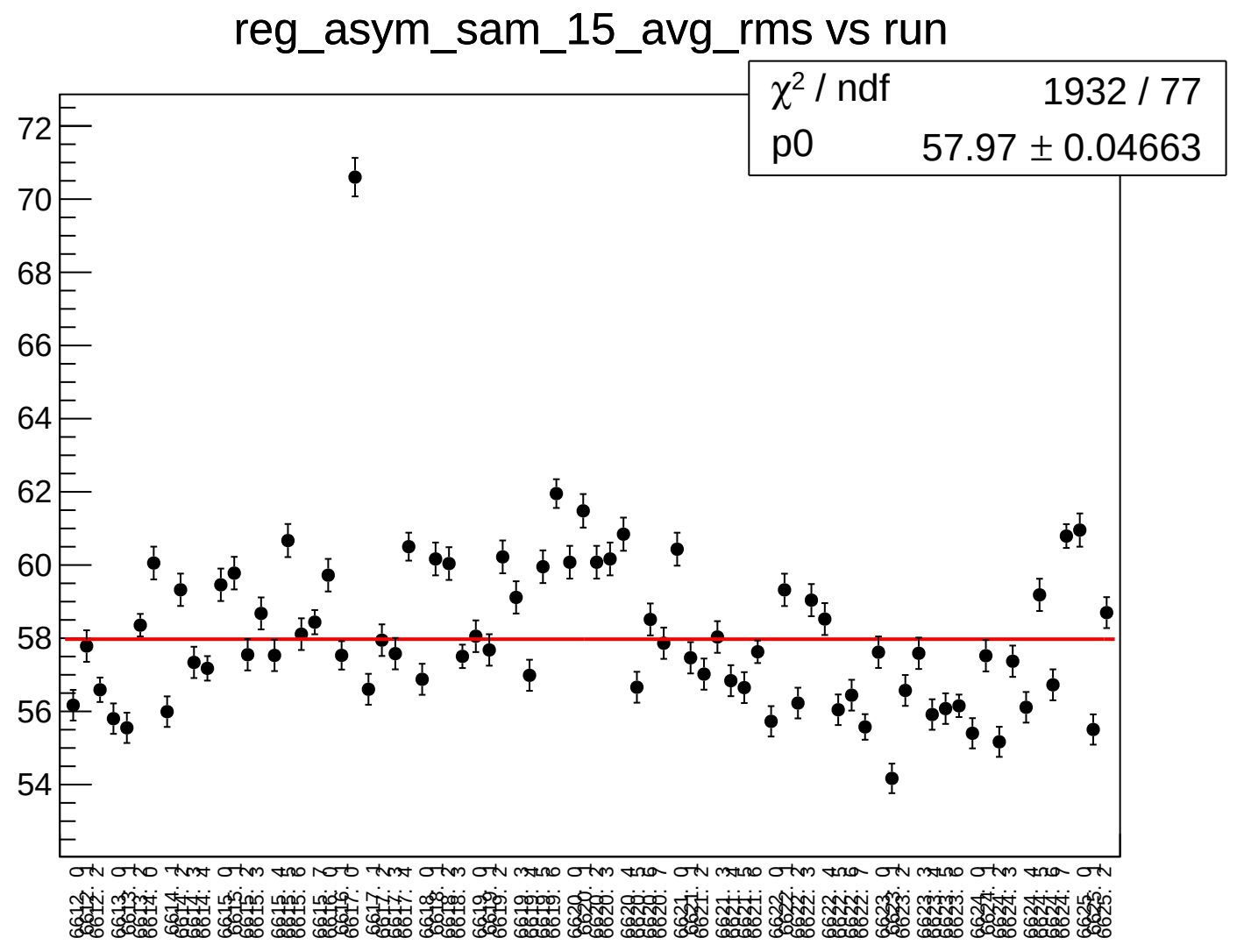

asym_sam8_correction_mean vs run
χ² / ndf 79.96 / 77
p0 −249.7 ± 233.8
pull
Entries 78
Mean 2303
Std Dev 2245

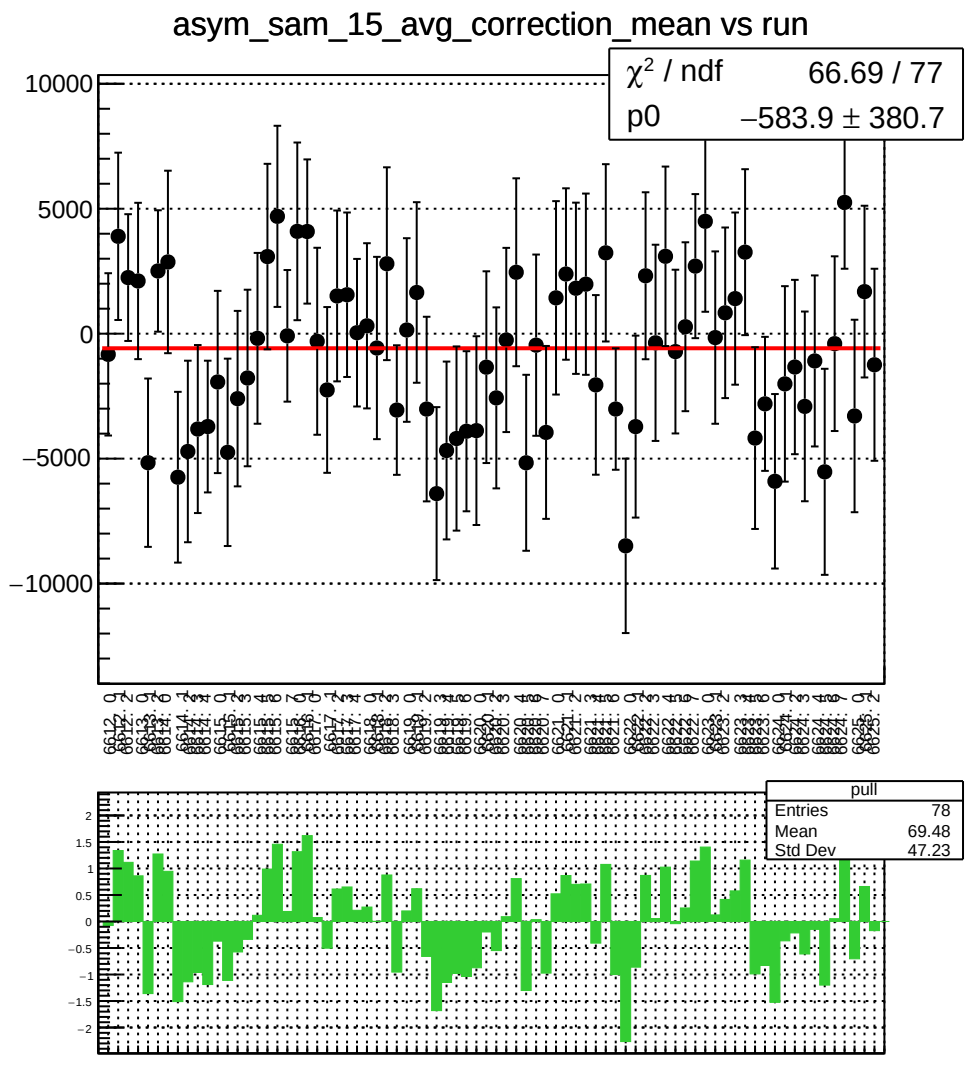

pull1D
Entries 78
Mean 0.0005076
Std Dev 1.012

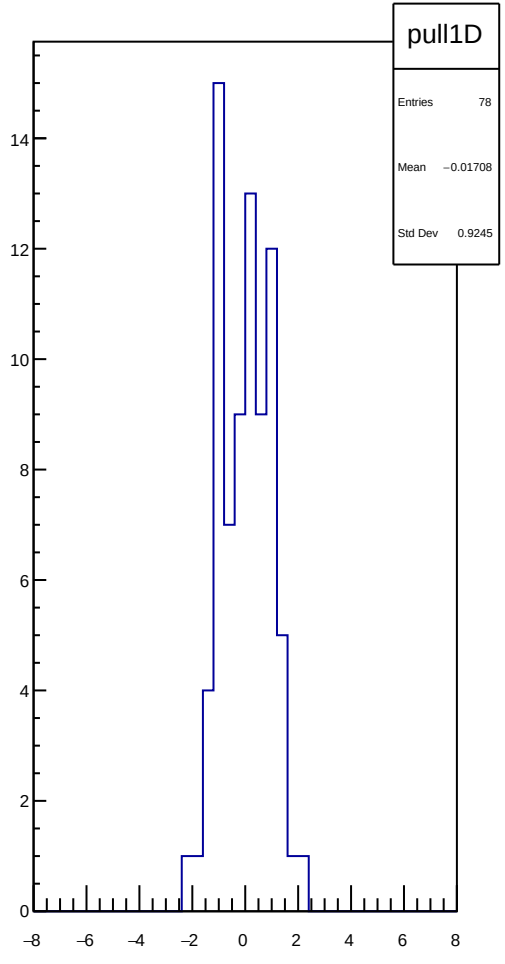

asym_sam8_correction_rms vs run
χ² / ndf 7040 / 77
p0 205.2 ± 0.1653
250
240
230
220
210
200
190
180

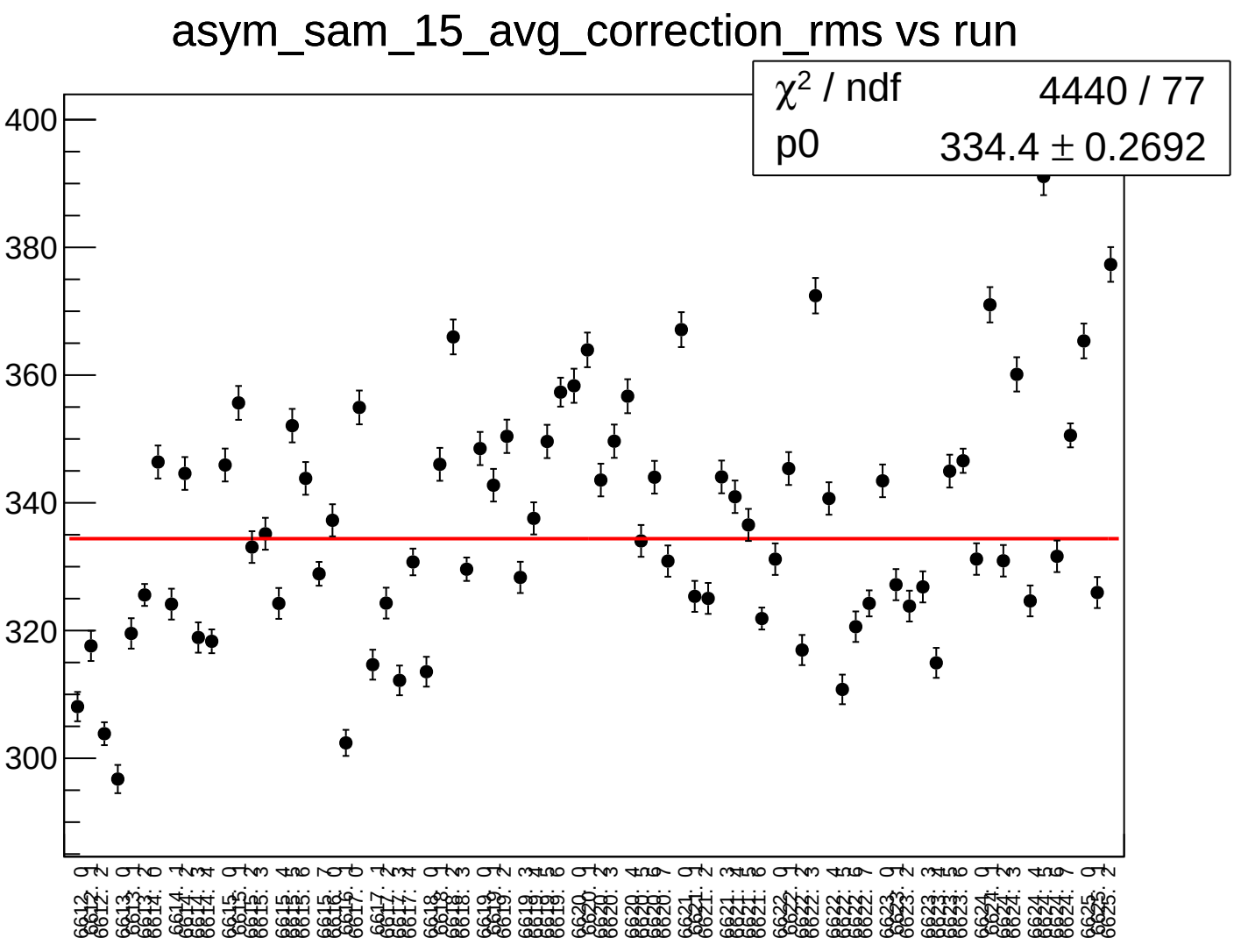

reg_asym_sam_15_avg_mean vs run
χ² / ndf 73.98 / 77
p0 49.28 ± 65.95
pull
Entries 78
Mean −27.78
Std Dev 28.69

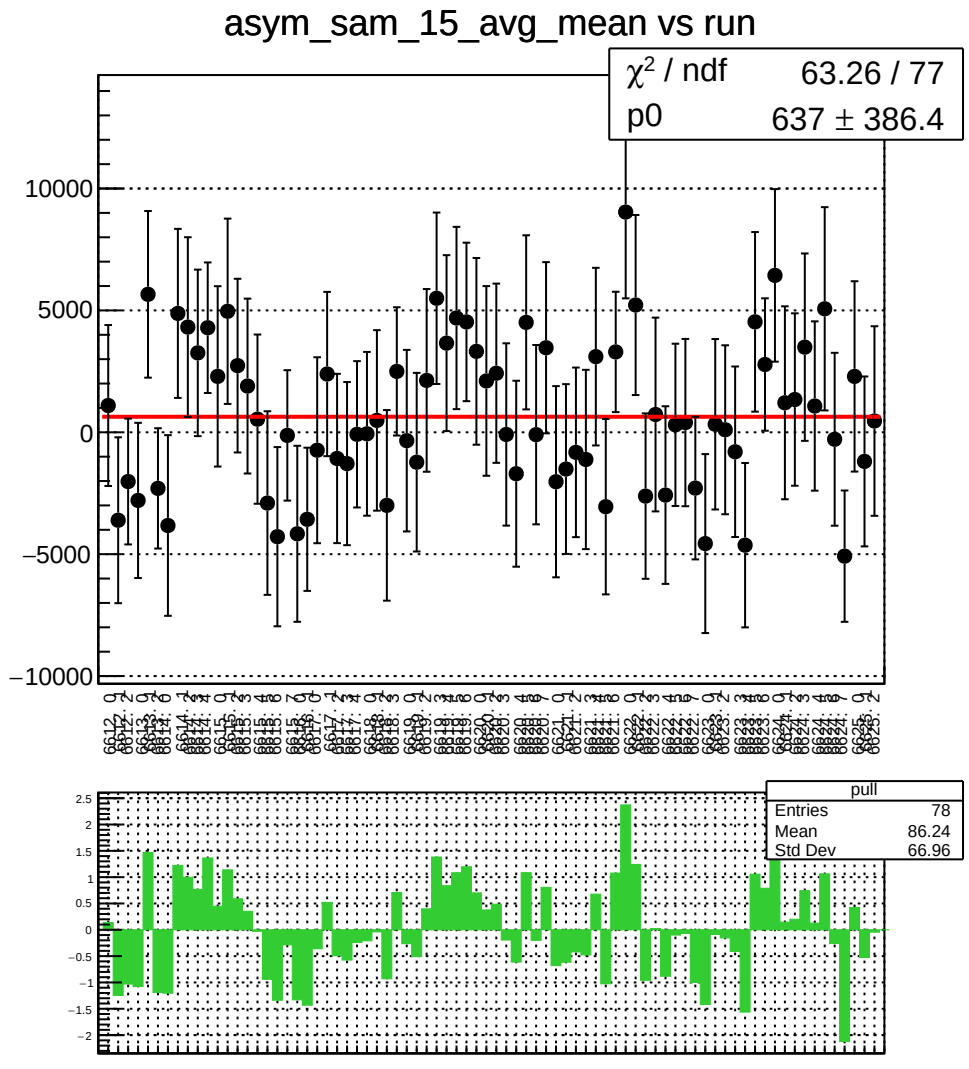

pull1D
Entries 78
Mean −0.01164
Std Dev 0.9738

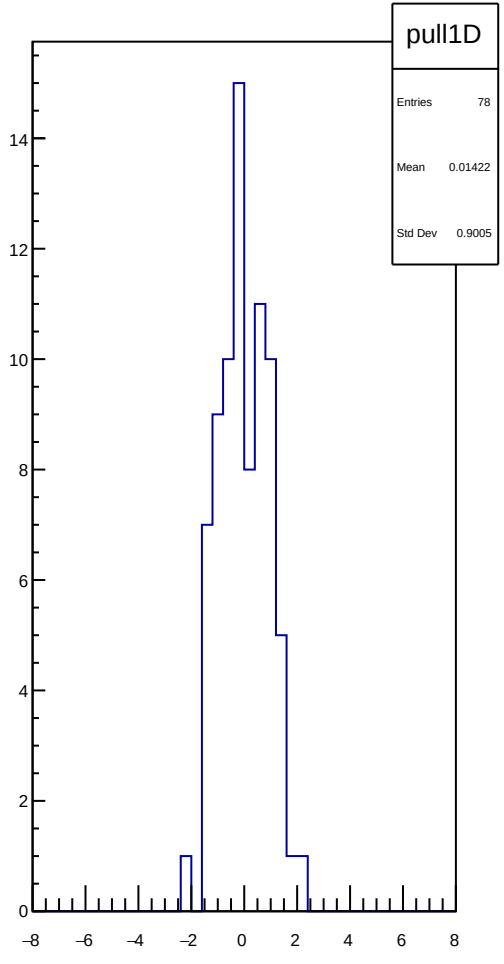

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1932 / 77
p0 57.97 ± 0.04663
72
70
68
66
64
62
60
58
56
54

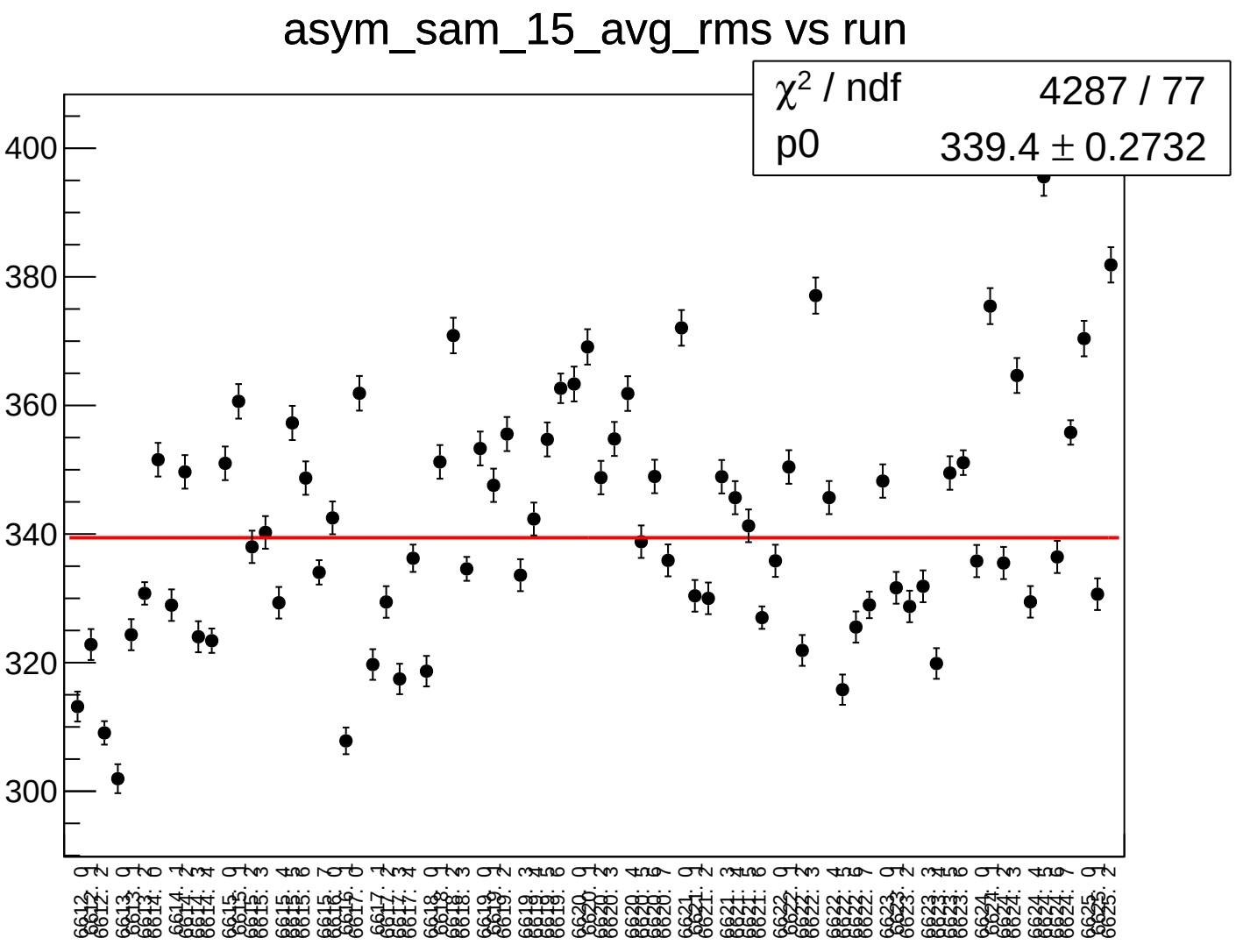

asym_sam_15_avg_correction_mean vs run
χ² / ndf 66.69 / 77
p0 −583.9 ± 380.7
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 69.48
Std Dev 47.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

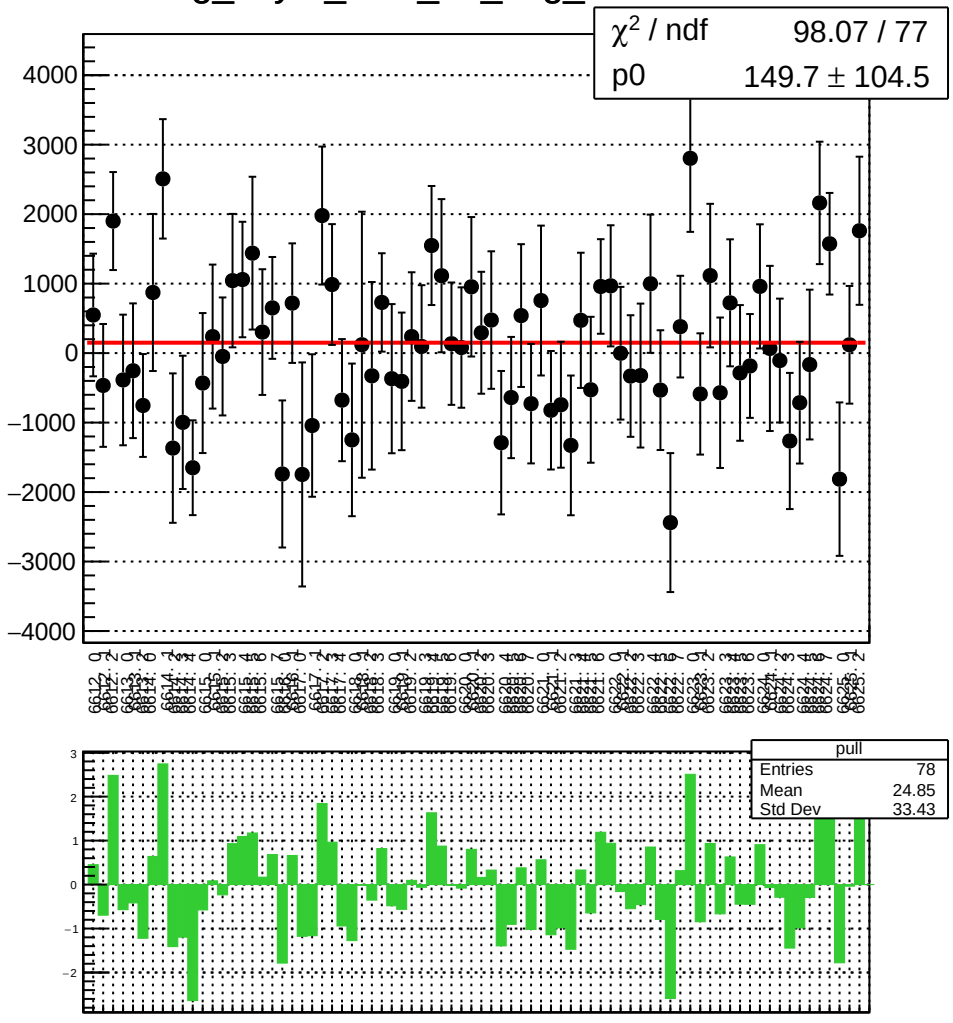

pull1D
Entries 78
Mean −0.01708
Std Dev 0.9245
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

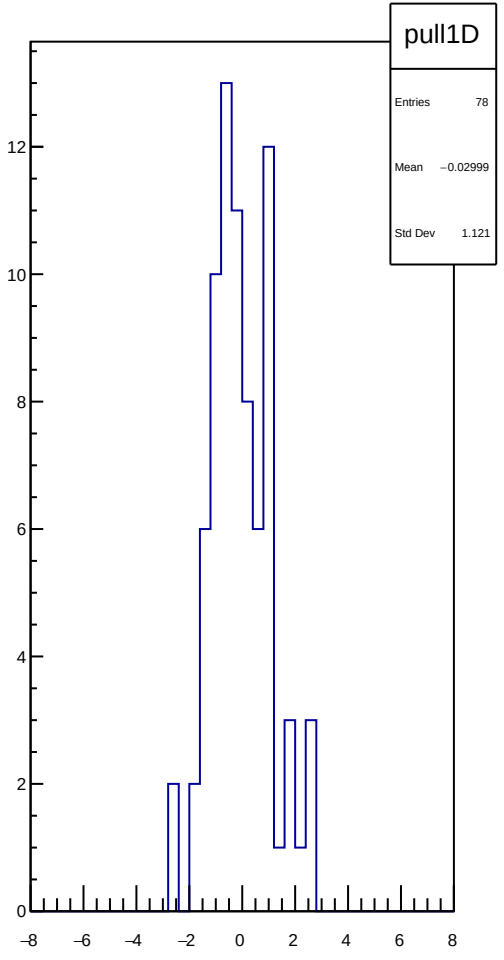

asym_sam_15_avg_correction_rms vs run
χ² / ndf 4440 / 77
p0 334.4 ± 0.2692
400
380
360
340
320
300

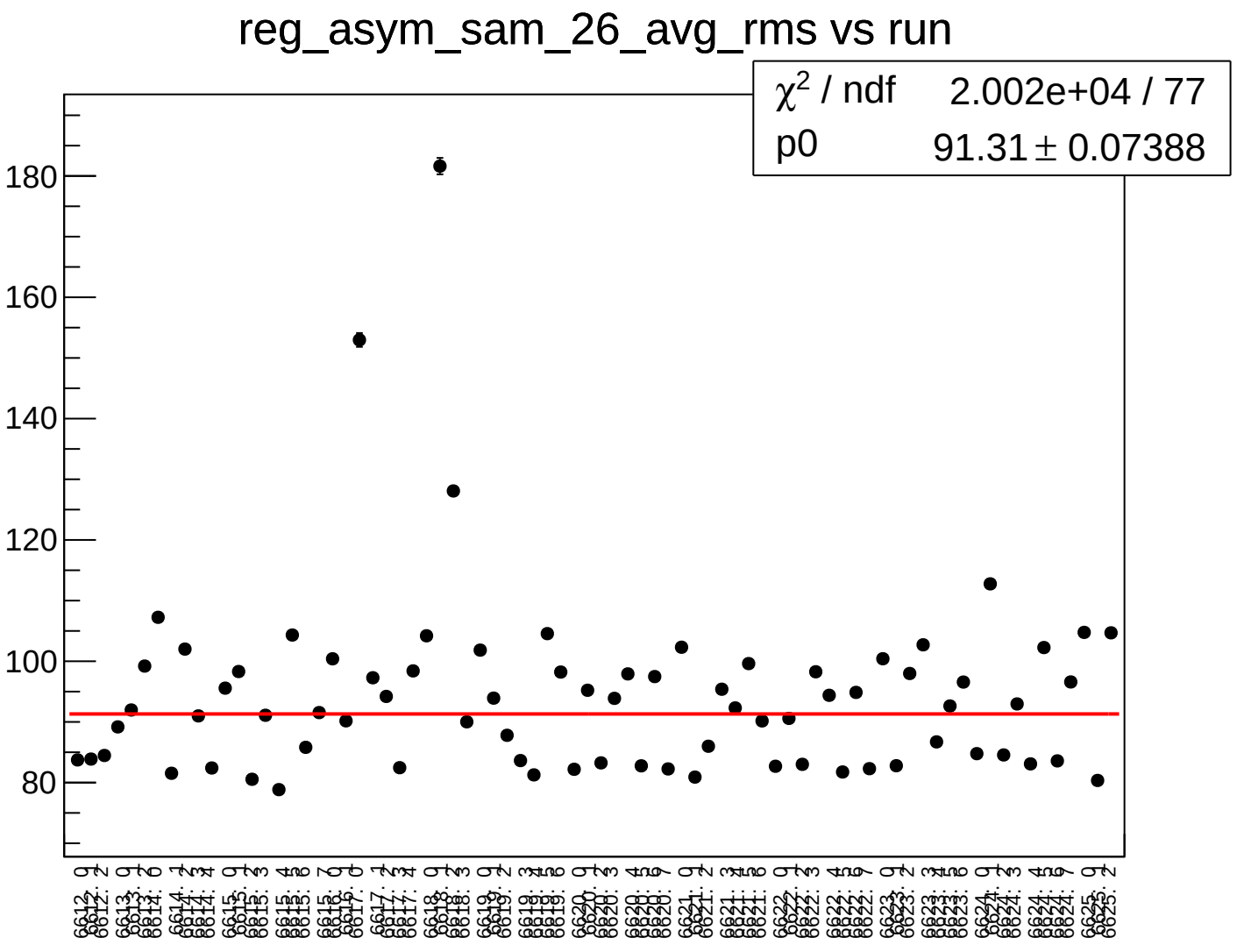

asym_sam_15_avg_mean vs run
χ² / ndf 63.26 / 77
p0 637 ± 386.4
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 86.24
Std Dev 66.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

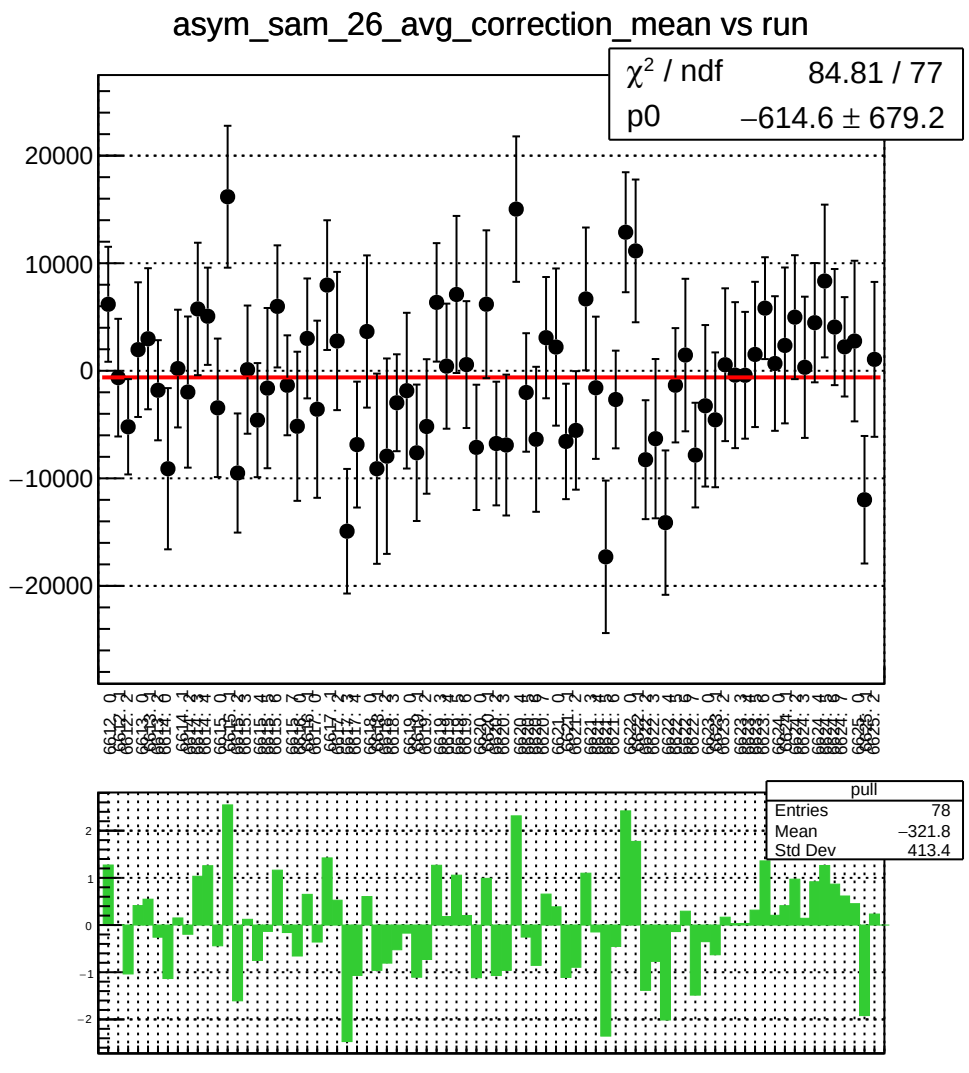

pull1D
Entries 78
Mean 0.01422
Std Dev 0.9005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

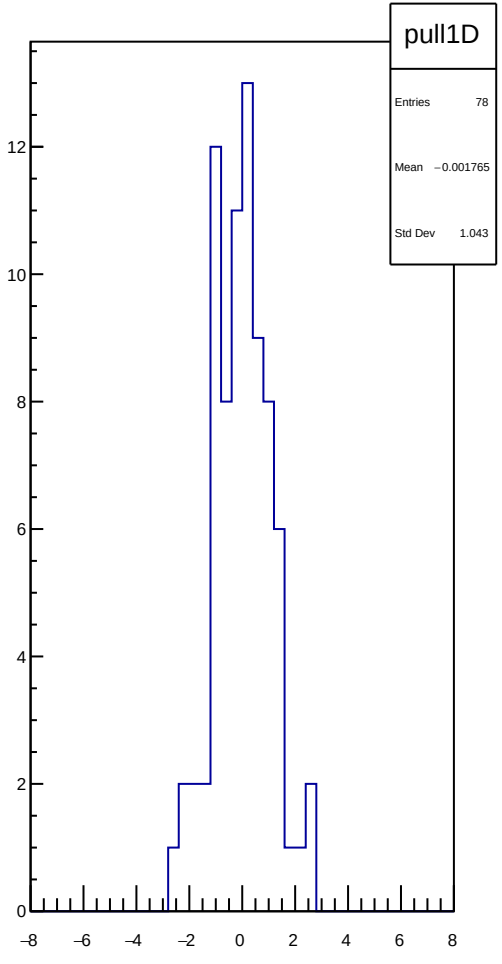

asym_sam_15_avg_rms vs run
χ² / ndf 4287 / 77
p0 339.4 ± 0.2732
400
380
360
340
320
300

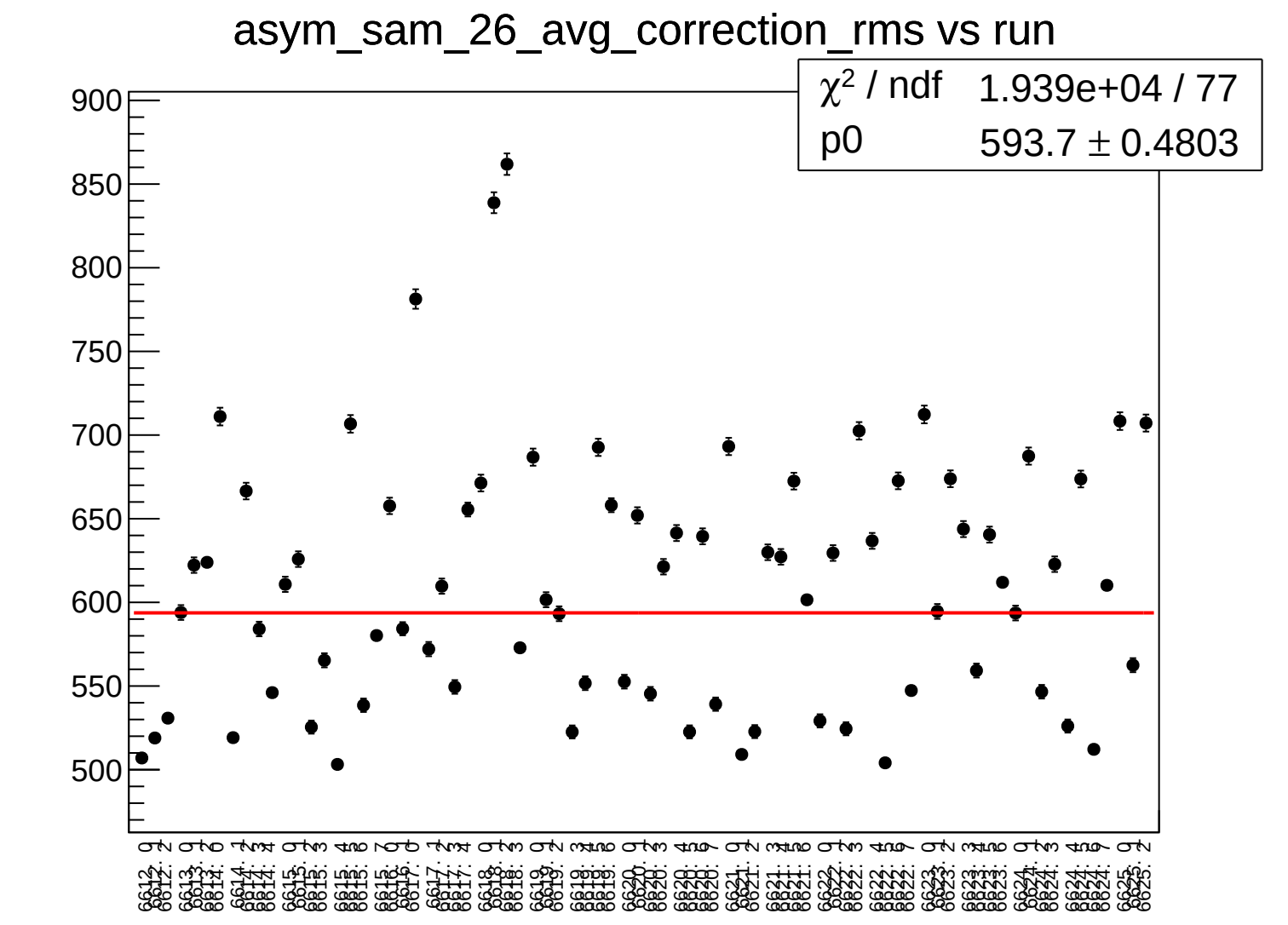

reg_asym_sam_26_avg_mean vs run
χ² / ndf 98.07 / 77
p0 149.7 ± 104.5
pull
Entries 78
Mean 24.85
Std Dev 33.43

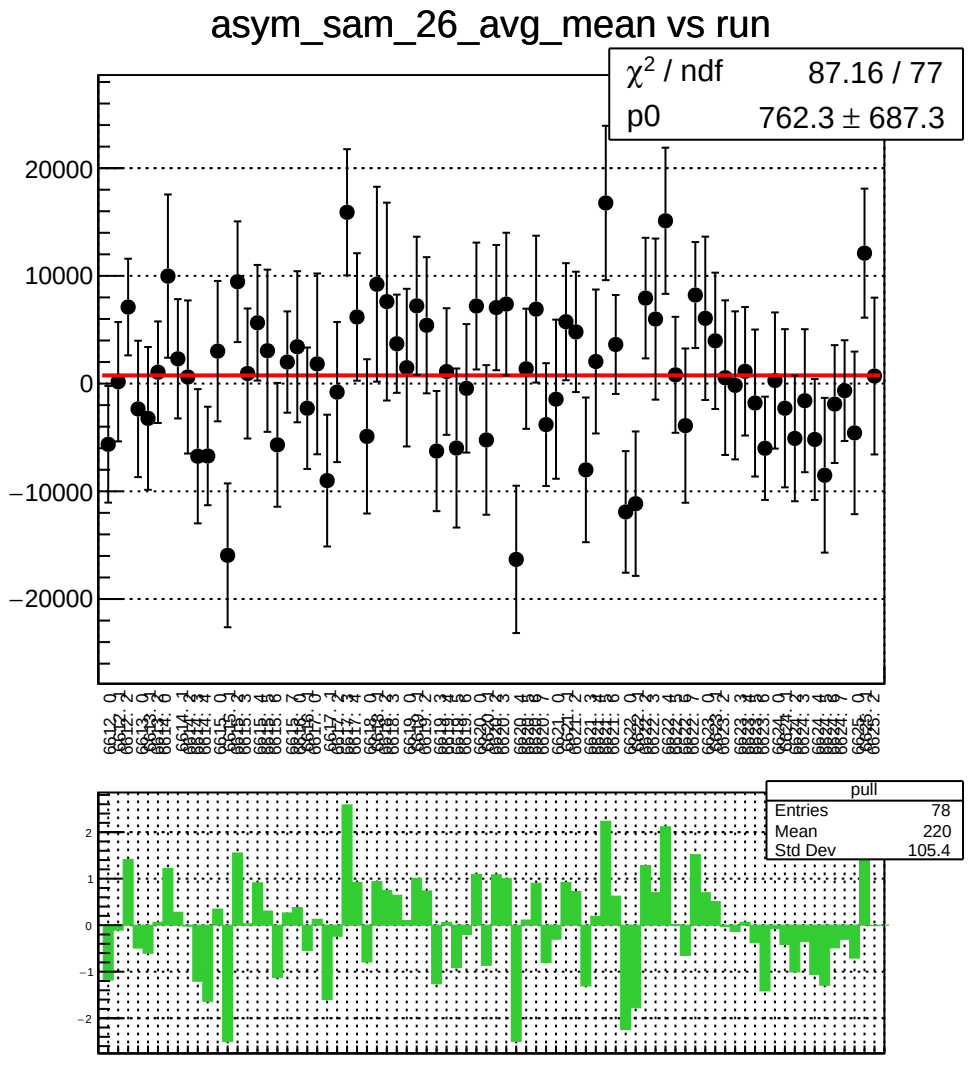

pull1D
Entries 78
Mean −0.02999
Std Dev 1.121

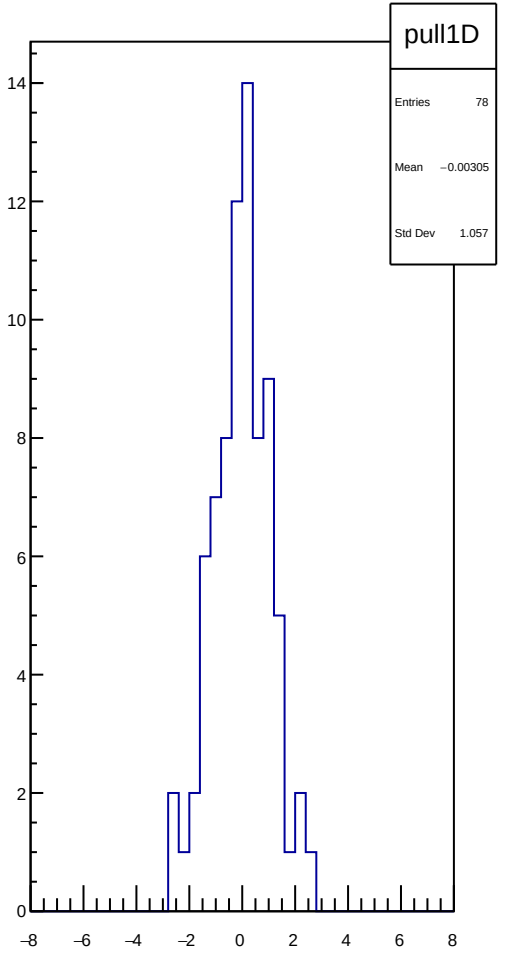

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.002e+04 / 77
p0 91.31 ± 0.07388
180
160
140
120
100
80

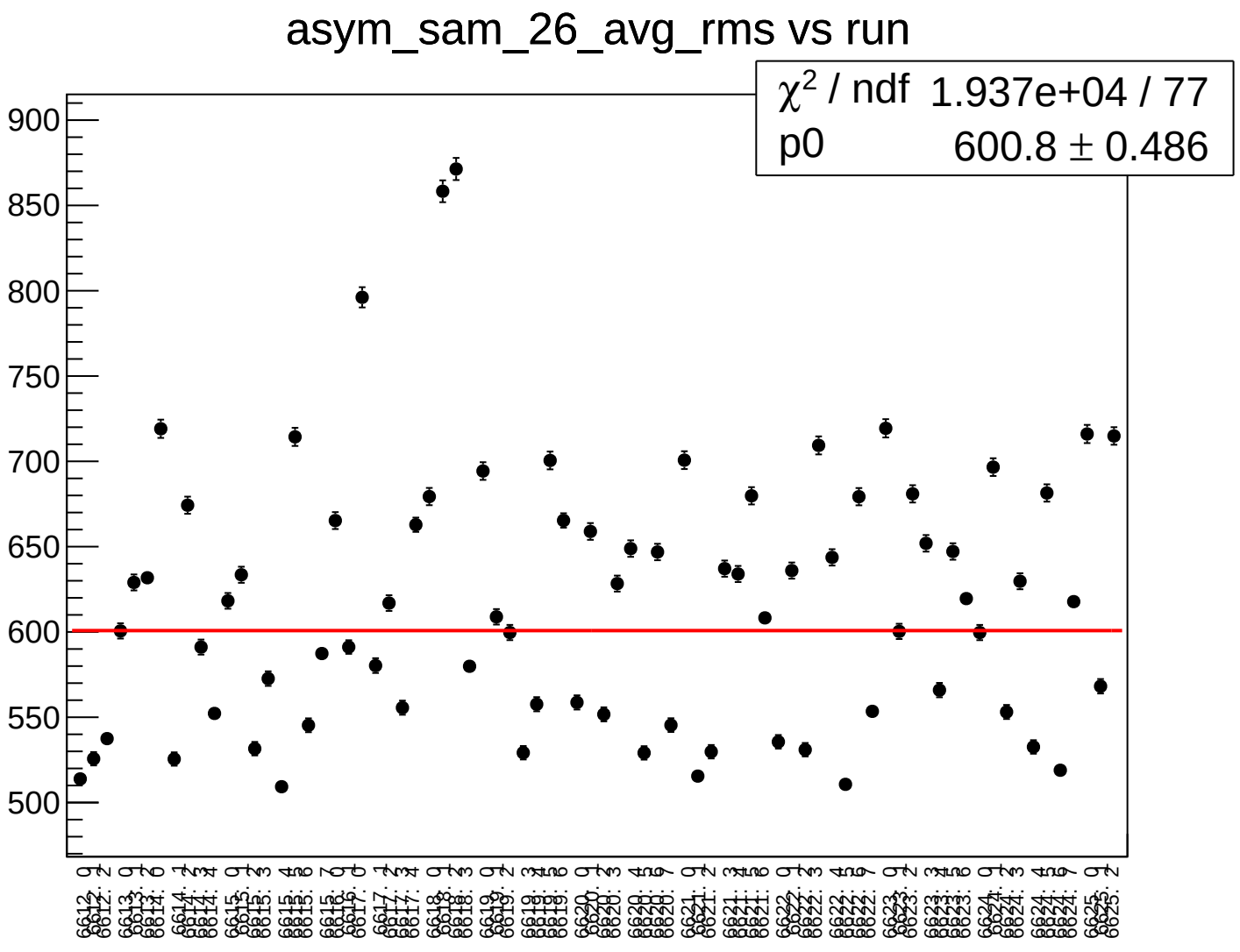

asym_sam_26_avg_correction_mean vs run
χ² / ndf 84.81 / 77
p0 −614.6 ± 679.2
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −321.8
Std Dev 413.4
2
1
0
−1
−2

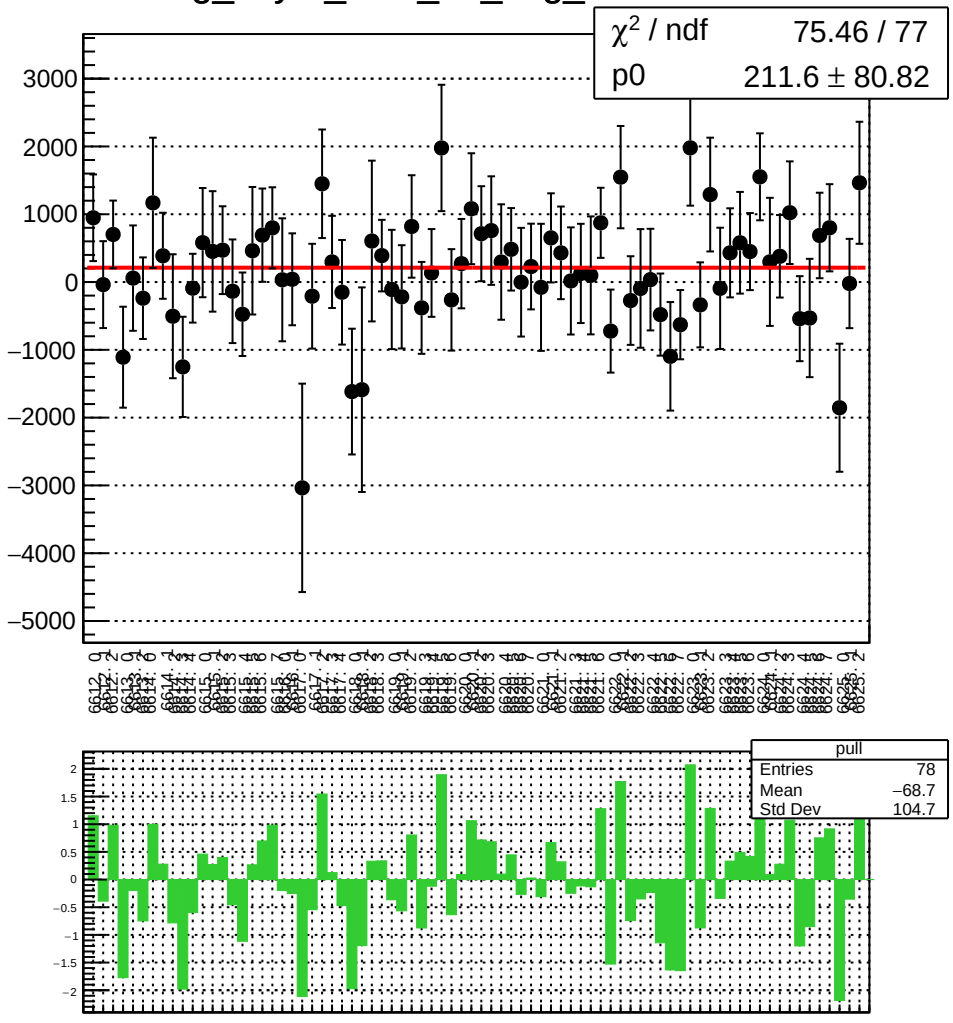

pull1D
Entries 78
Mean −0.001765
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

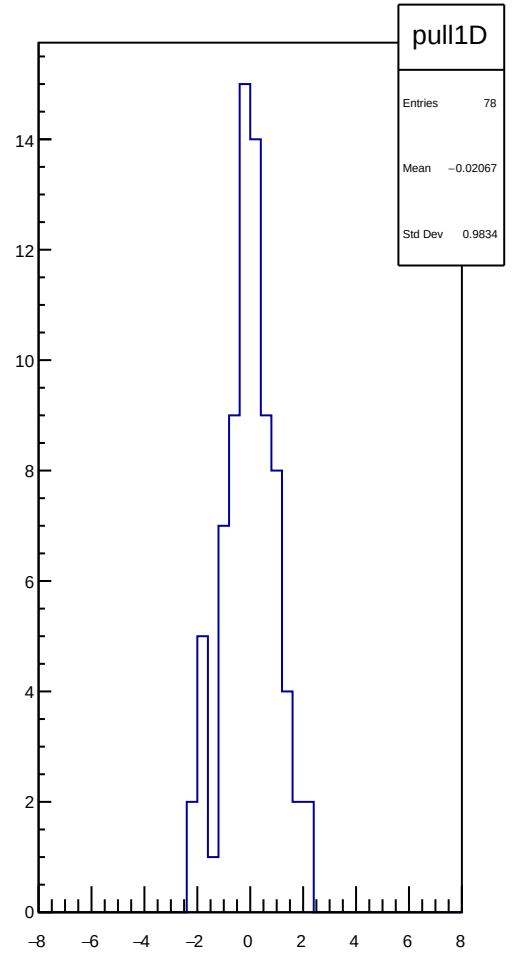

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.939e+04 / 77
p0 593.7 ± 0.4803
900
850
800
750
700
650
600
550
500

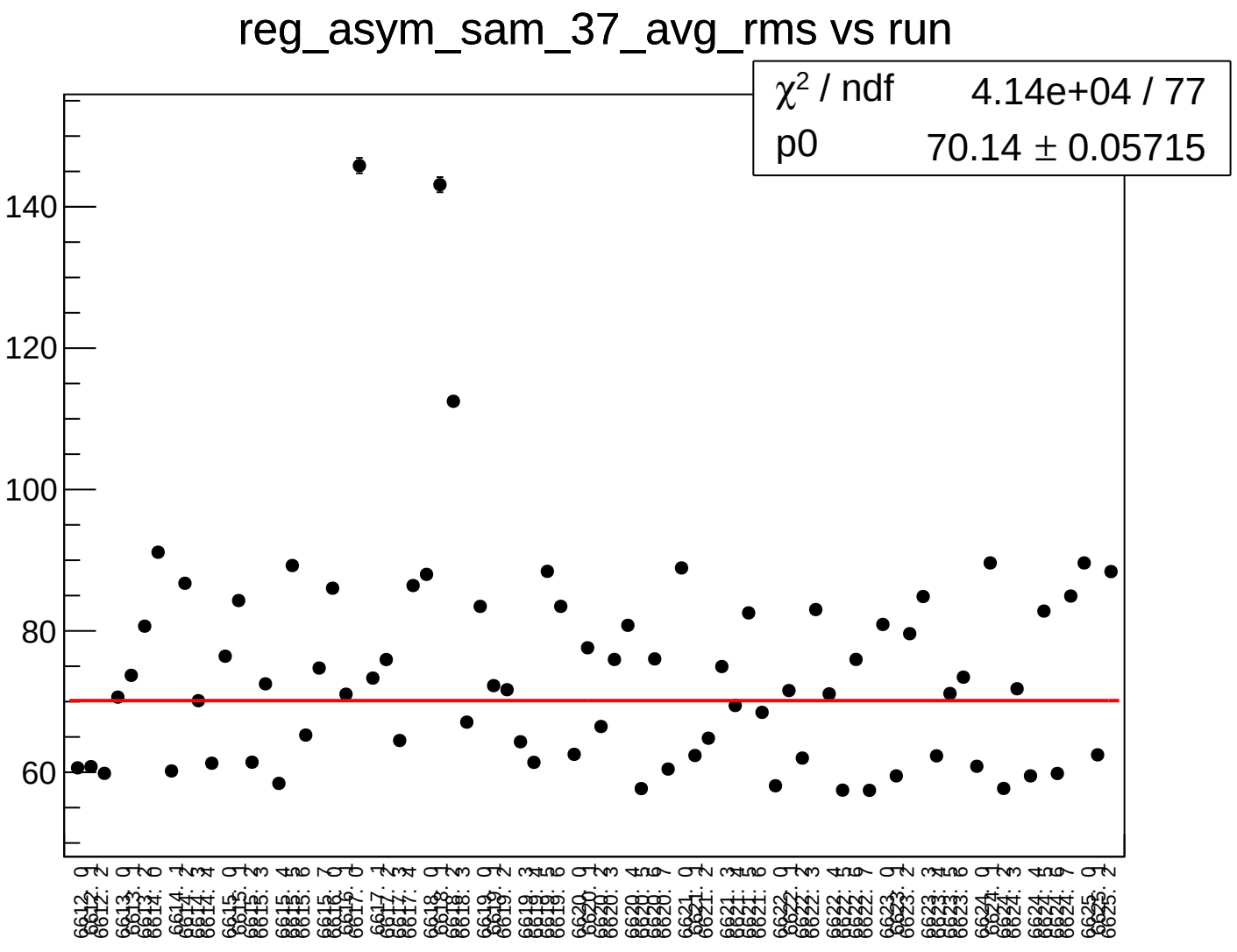

asym_sam_26_avg_mean vs run
χ² / ndf 87.16 / 77
p0 762.3 ± 687.3
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 220
Std Dev 105.4
2
1
0
−1
−2

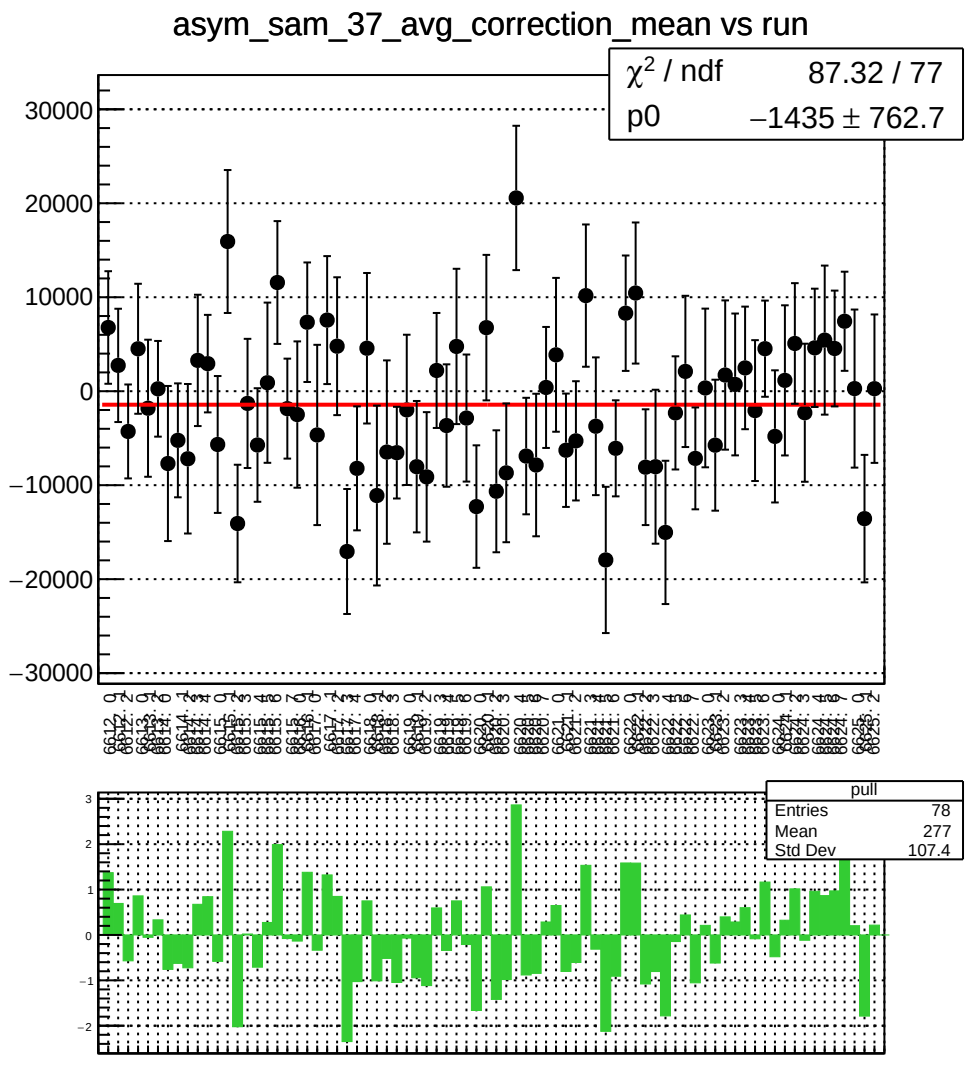

pull1D
Entries 78
Mean −0.00305
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

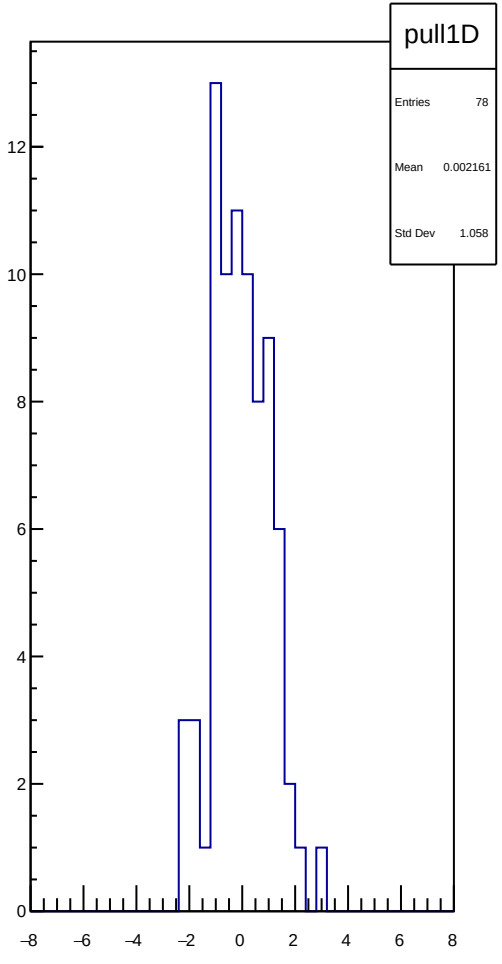

asym_sam_26_avg_rms vs run
χ^2 / ndf 1.937e+04 / 77
p0 600.8 ± 0.486
900
850
800
750
700
650
600
550
500

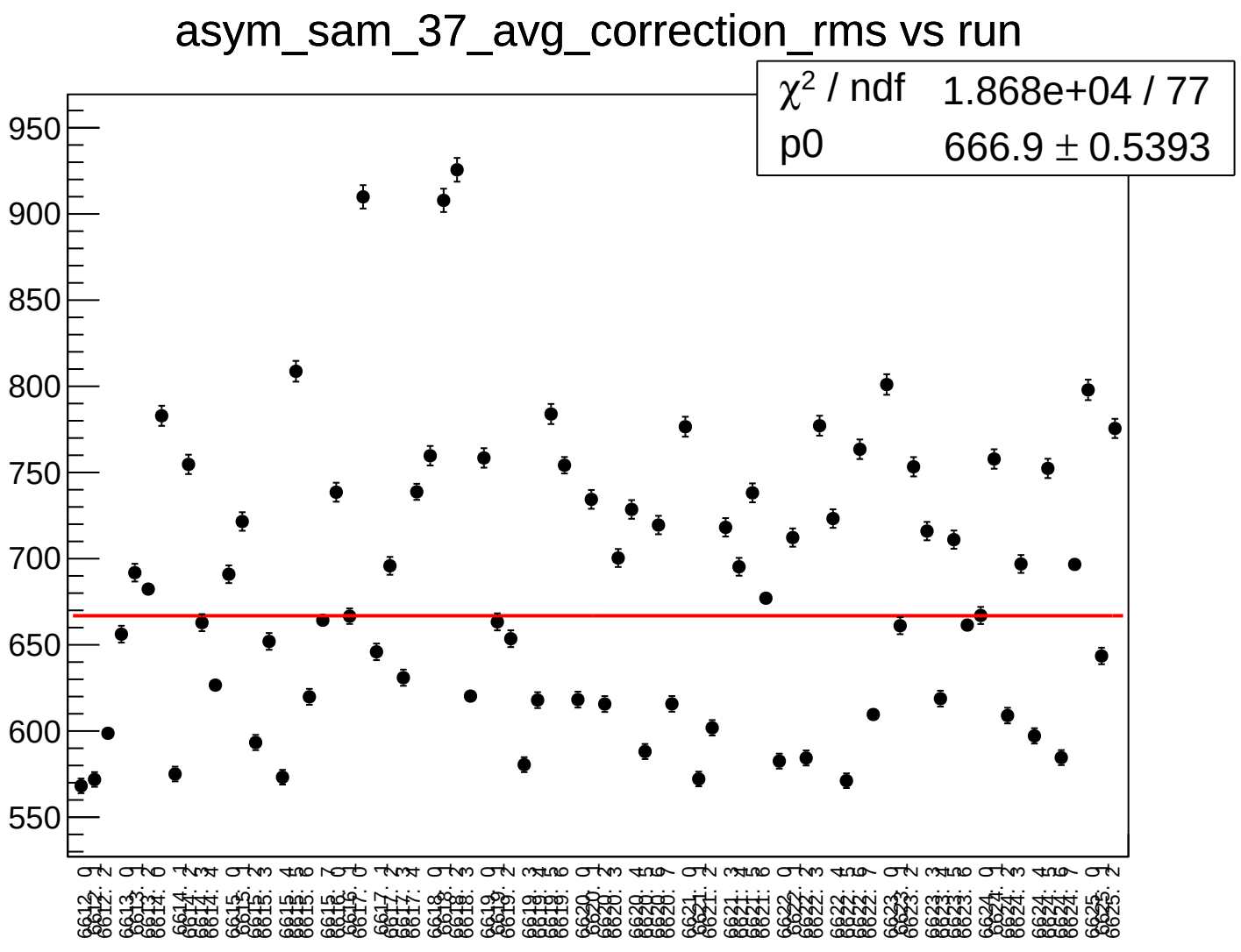

reg_asym_sam_37_avg_mean vs run
χ² / ndf 75.46 / 77
p0 211.6 ± 80.82
pull
Entries 78
Mean −68.7
Std Dev 104.7

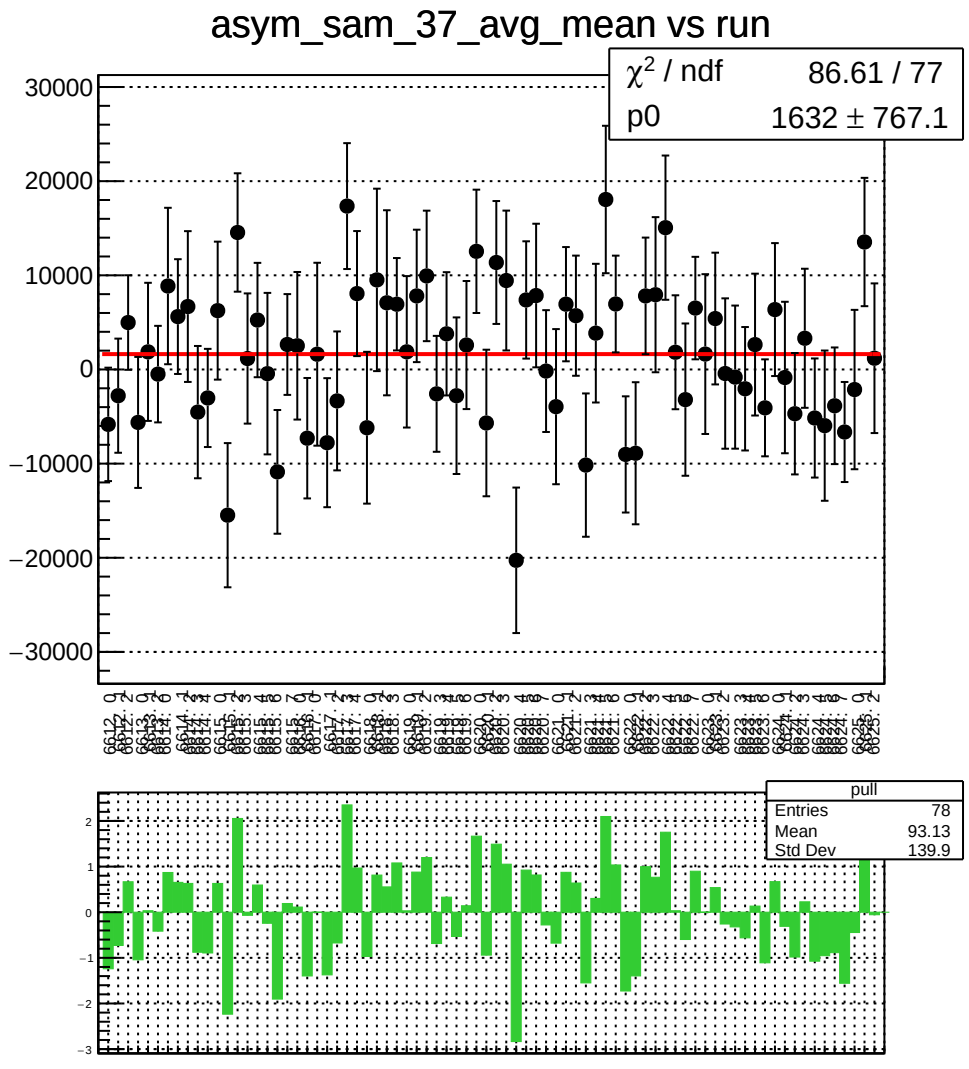

pull1D
Entries 78
Mean −0.02067
Std Dev 0.9834

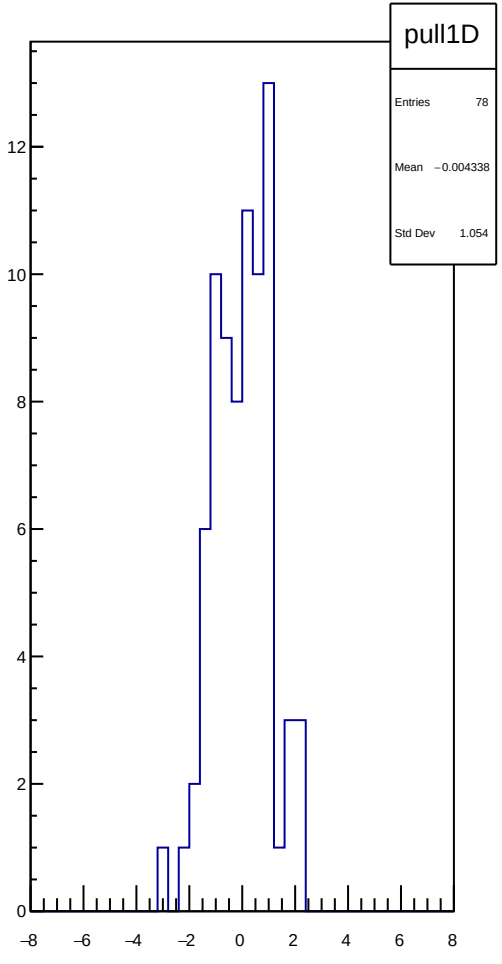

reg_asym_sam_37_avg_rms vs run
χ² / ndf 4.14e+04 / 77
p0 70.14 ± 0.05715
140
120
100
80
60

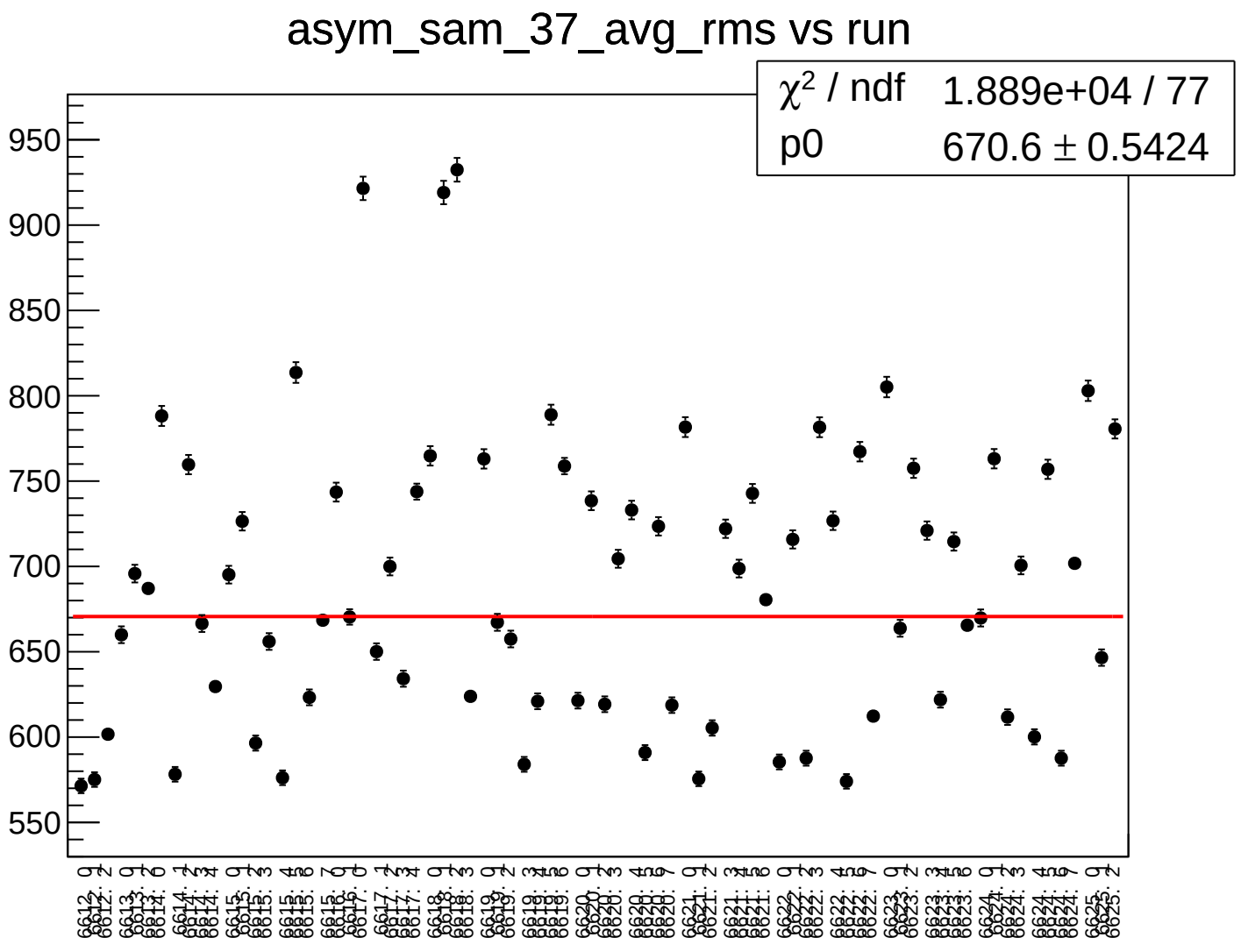

asym_sam_37_avg_correction_mean vs run
χ² / ndf 87.32 / 77
p0 −1435 ± 762.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 277
Std Dev 107.4
3
2
1
0
−1
−2

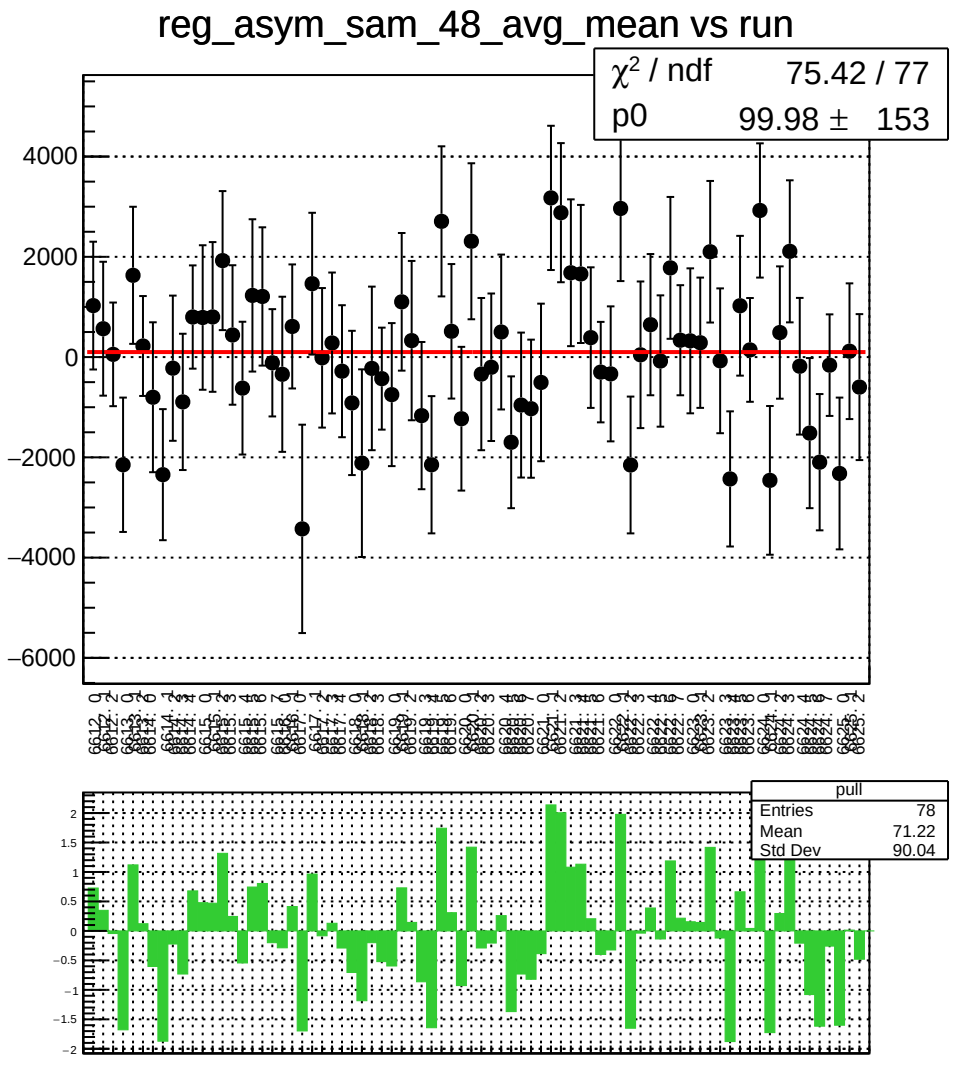

pull1D
Entries 78
Mean 0.002161
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

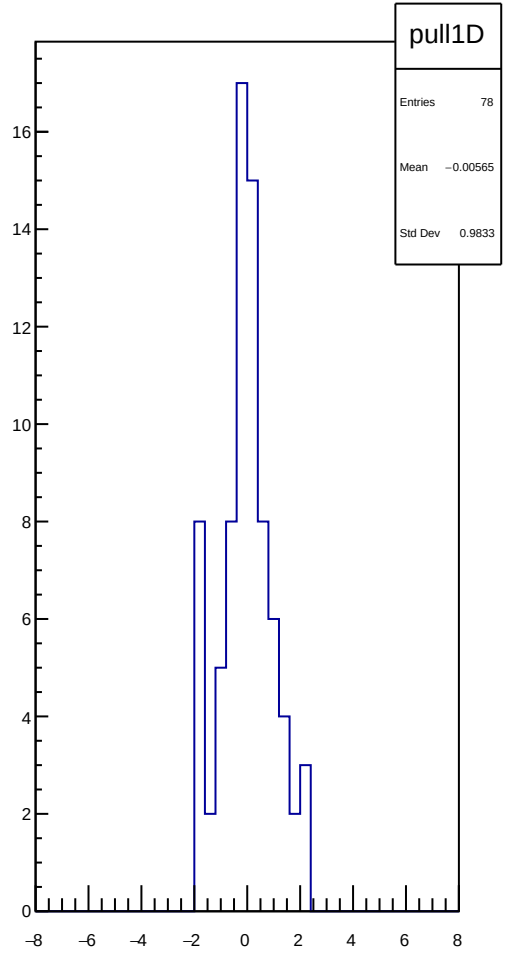

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.868e+04 / 77
p0 666.9 ± 0.5393
950
900
850
800
750
700
650
600
550

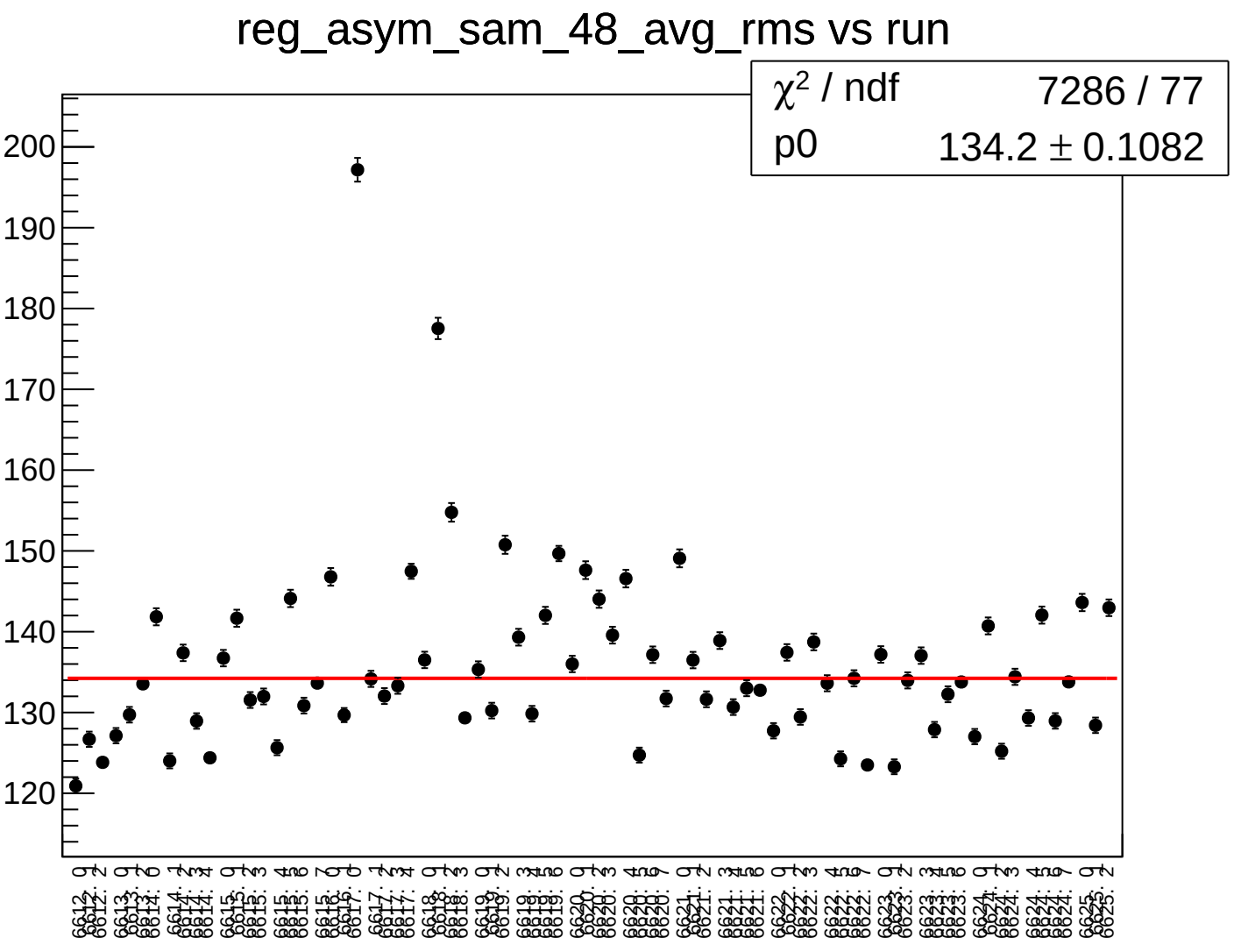

asym_sam_37_avg_mean vs run
χ² / ndf 86.61 / 77
p0 1632 ± 767.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 93.13
Std Dev 139.9
2
1
0
−1
−2
−3

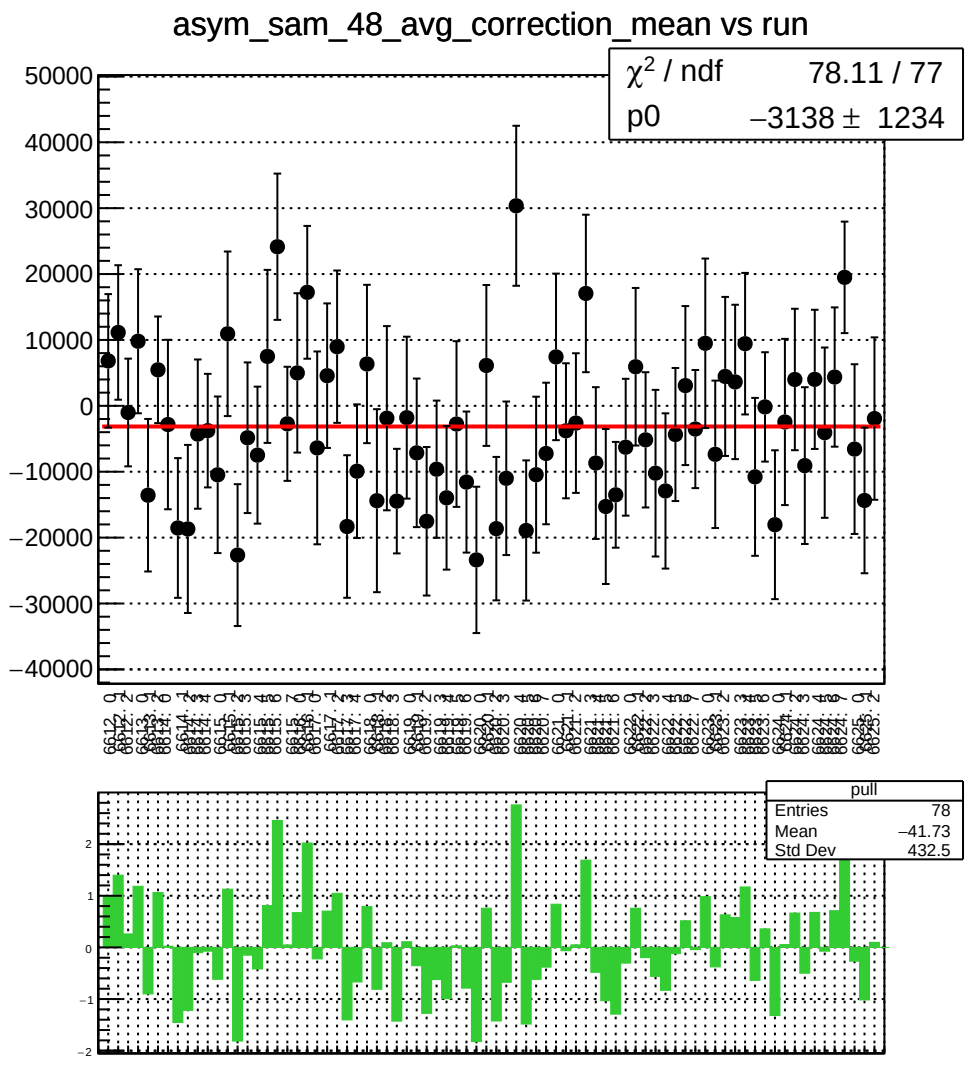

pull1D
Entries 78
Mean −0.004338
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

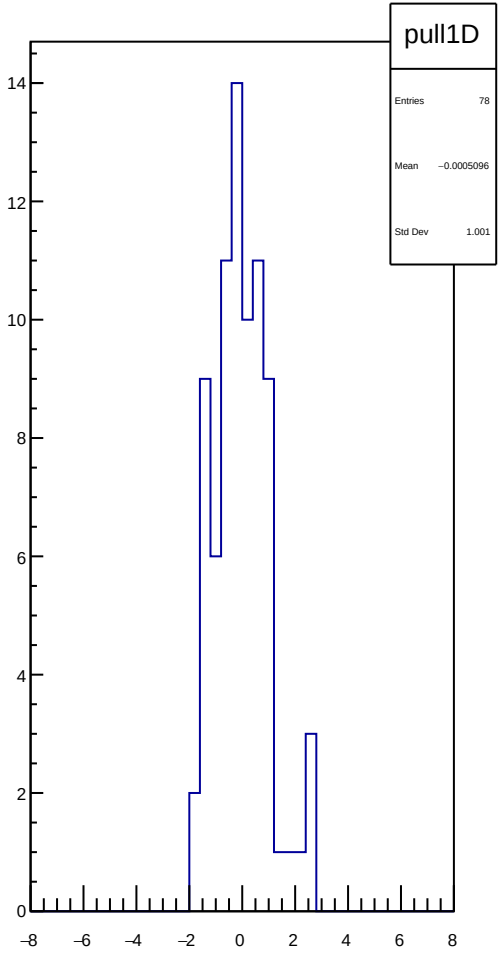

asym_sam_37_avg_rms vs run
χ² / ndf 1.889e+04 / 77
p0 670.6 ± 0.5424
950
900
850
800
750
700
650
600
550

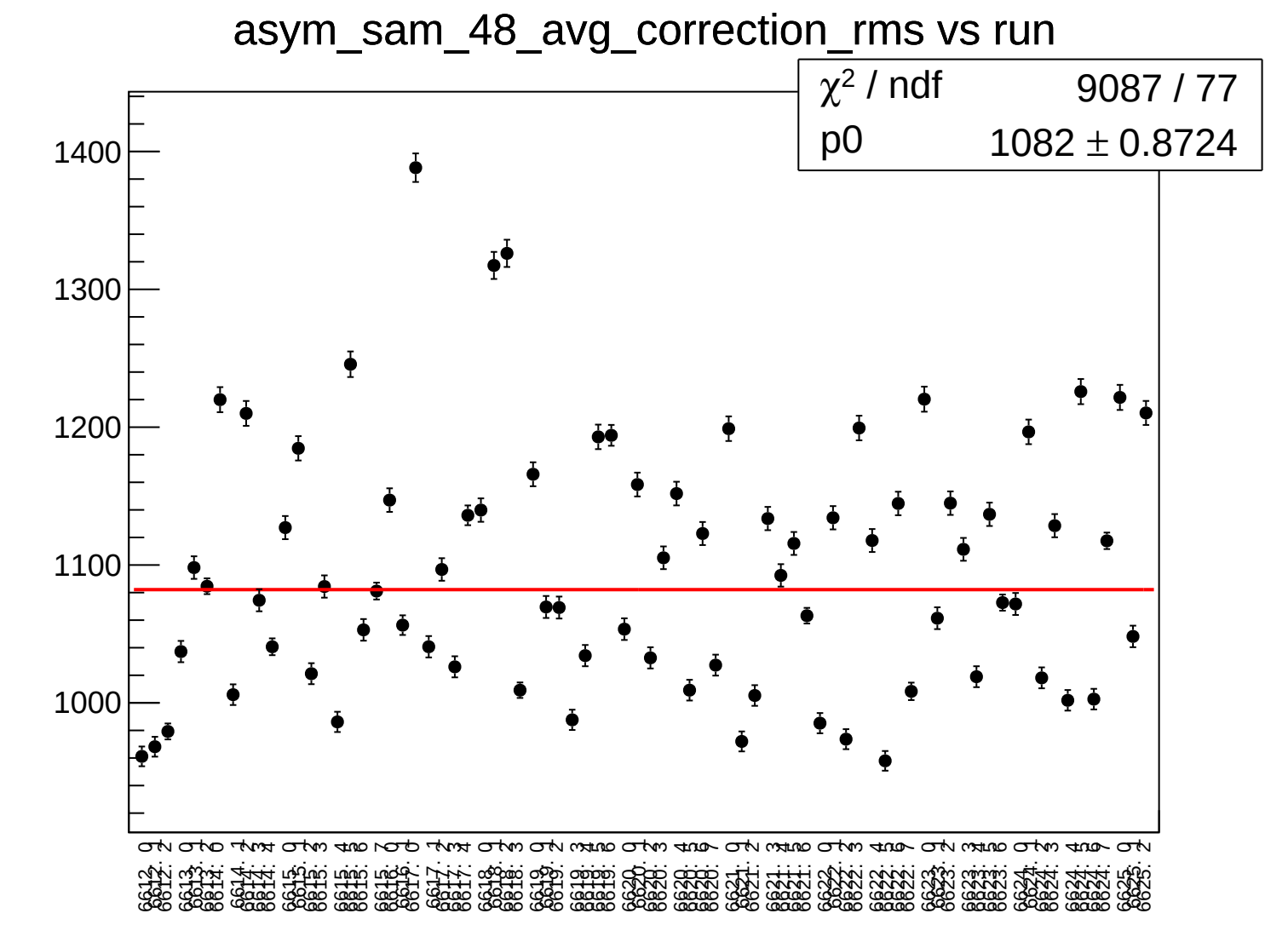

reg_asym_sam_48_avg_mean vs run
χ² / ndf 75.42 / 77
p0 99.98 ± 153
4000
2000
0
−2000
−4000
−6000
pull
Entries 78
Mean 71.22
Std Dev 90.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

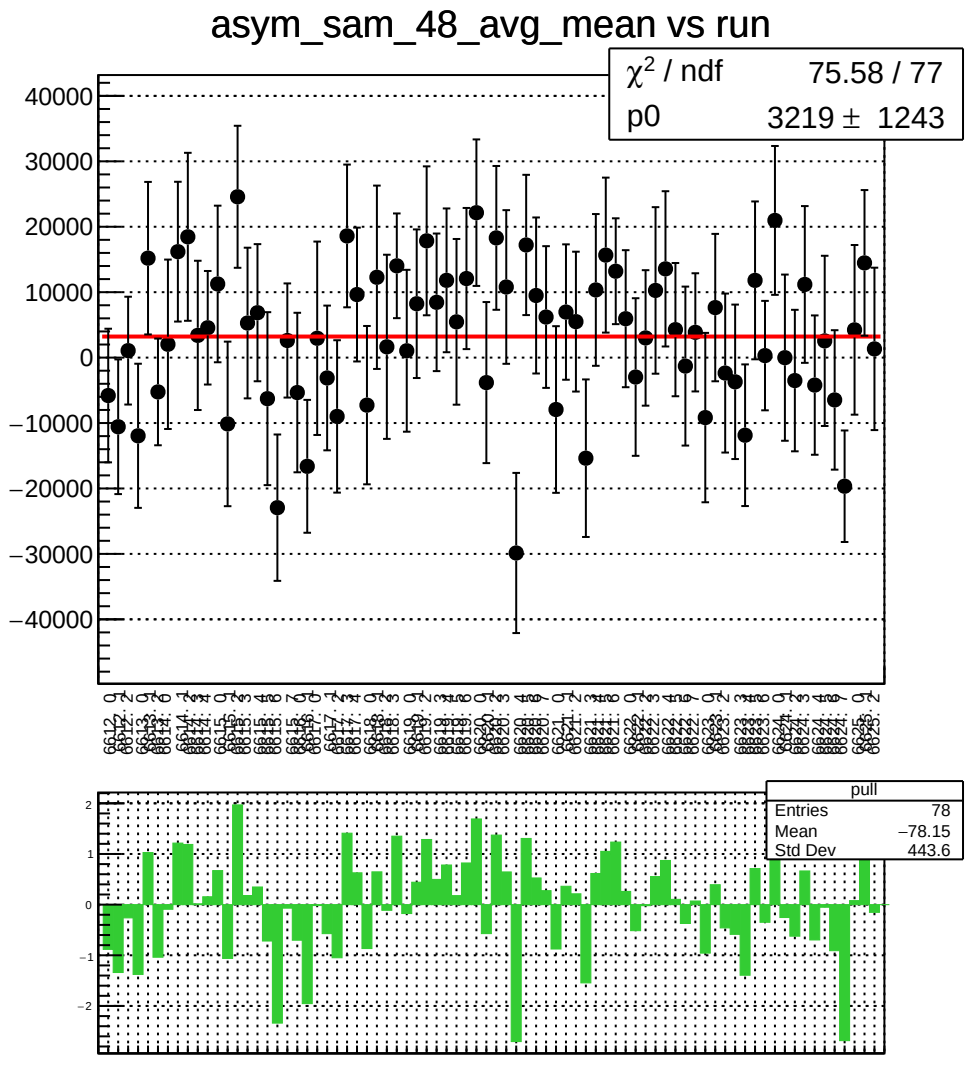

pull1D
Entries 78
Mean −0.00565
Std Dev 0.9833
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

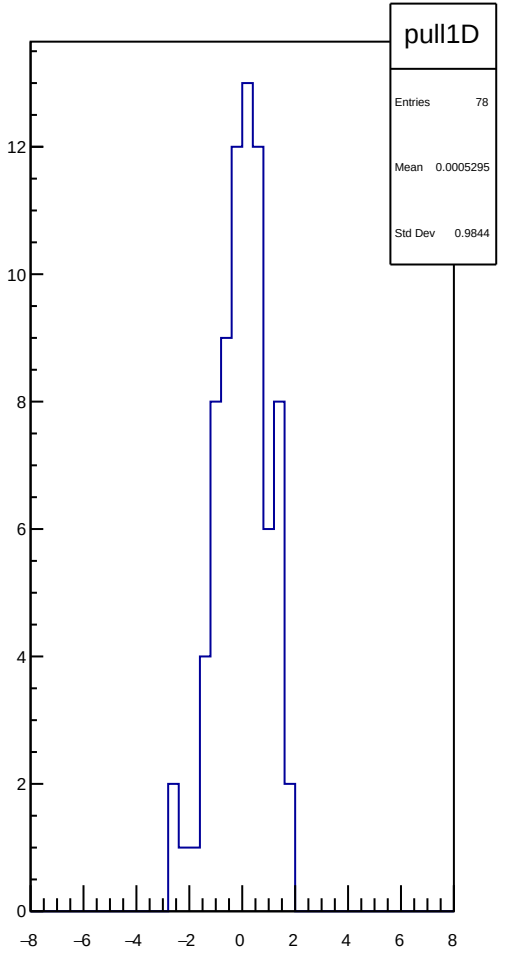

reg_asym_sam_48_avg_rms vs run
χ² / ndf 7286 / 77
p0 134.2 ± 0.1082
200
190
180
170
160
150
140
130
120

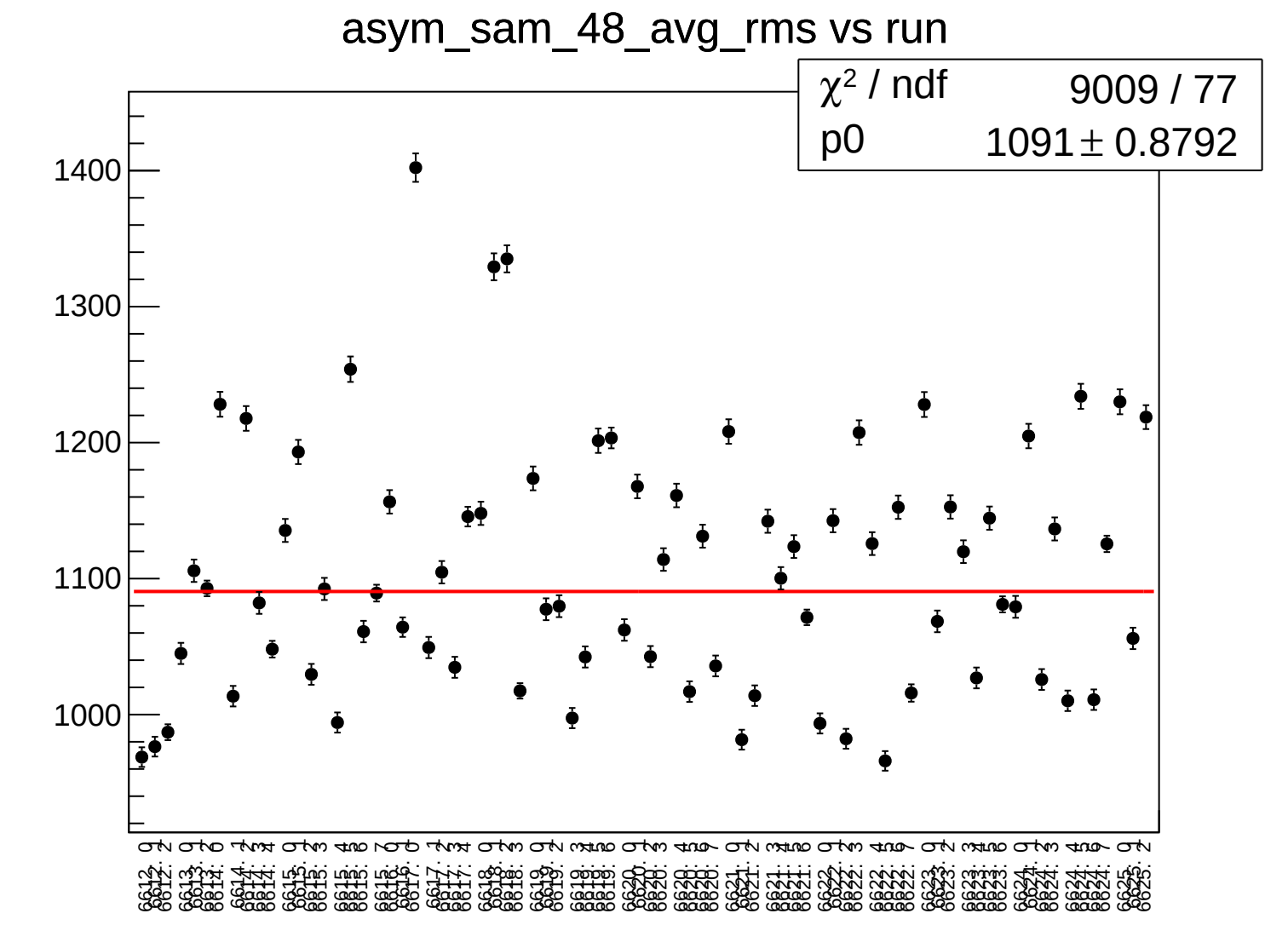

asym_sam_48_avg_correction_mean vs run
χ² / ndf 78.11 / 77
p0 −3138 ± 1234
pull
Entries 78
Mean −41.73
Std Dev 432.5

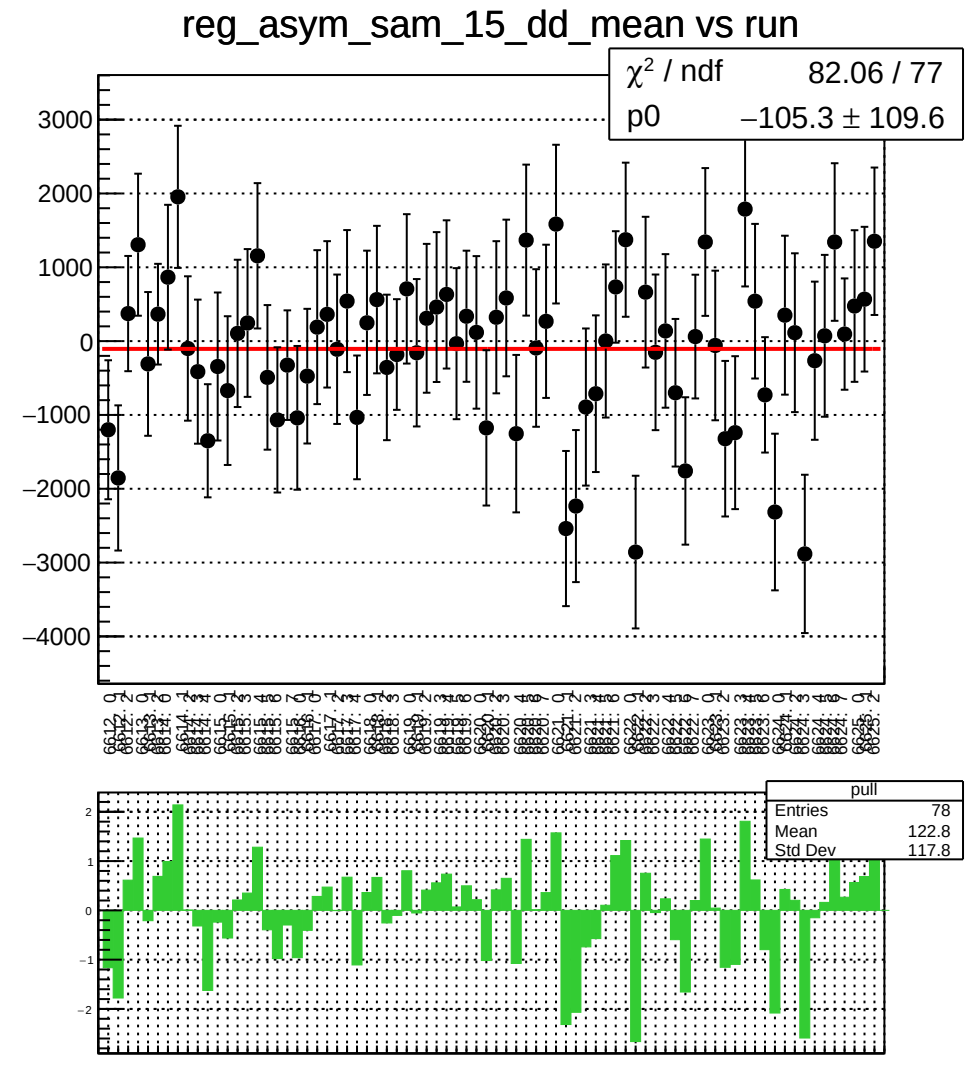

pull1D
Entries 78
Mean −0.0005096
Std Dev 1.001

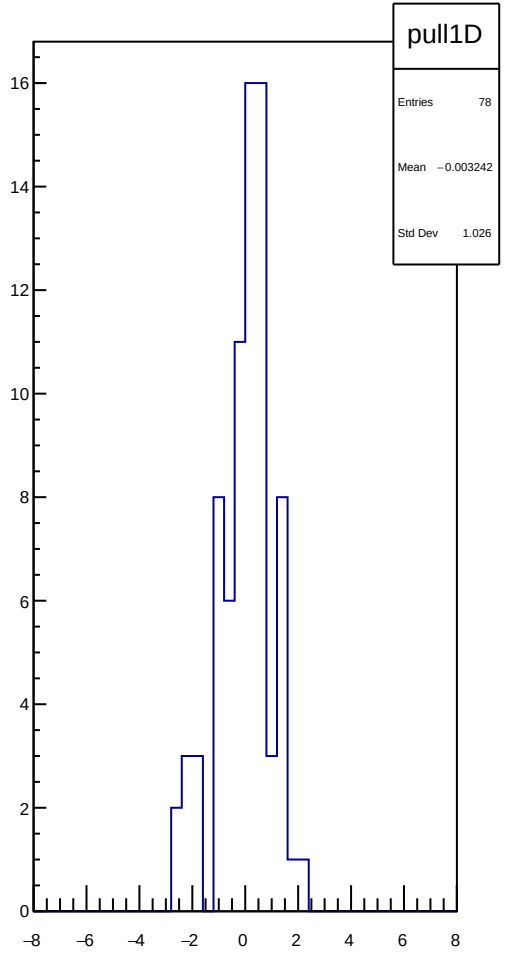

asym_sam_48_avg_correction_rms vs run
χ² / ndf 9087 / 77
p0 1082 ± 0.8724
1400
1300
1200
1100
1000

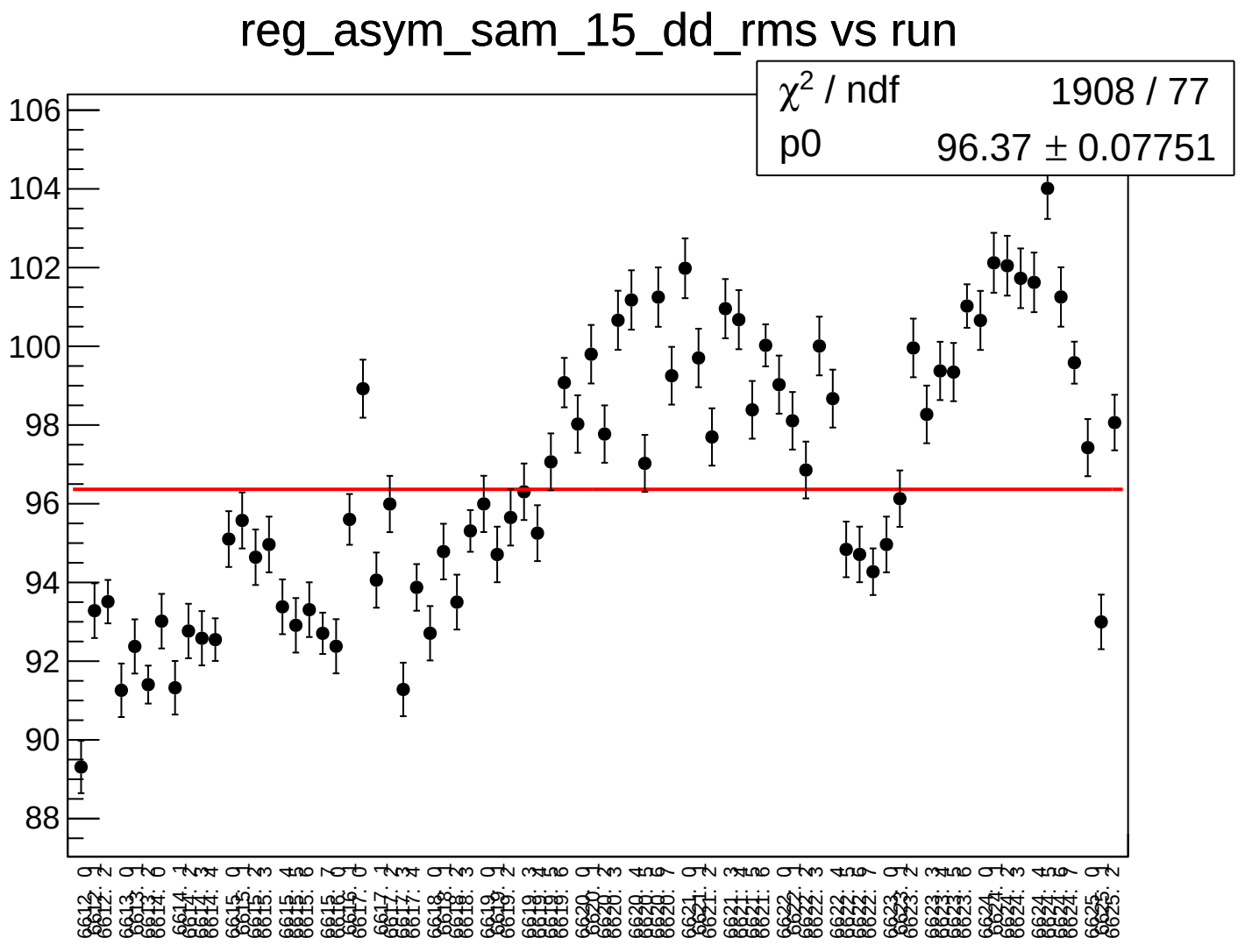

asym_sam_48_avg_mean vs run
χ² / ndf 75.58 / 77
p0 3219 ± 1243
pull
Entries 78
Mean −78.15
Std Dev 443.6

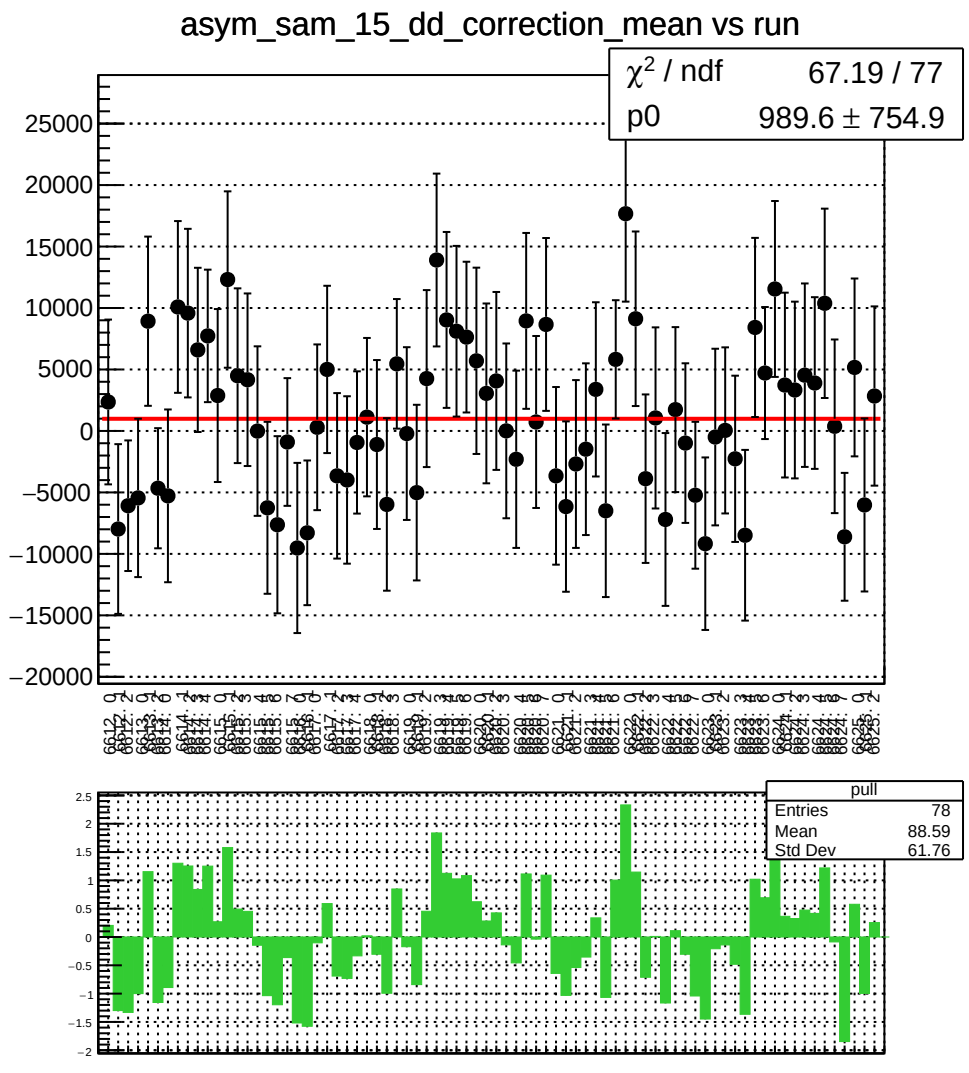

pull1D
Entries 78
Mean 0.0005295
Std Dev 0.9844

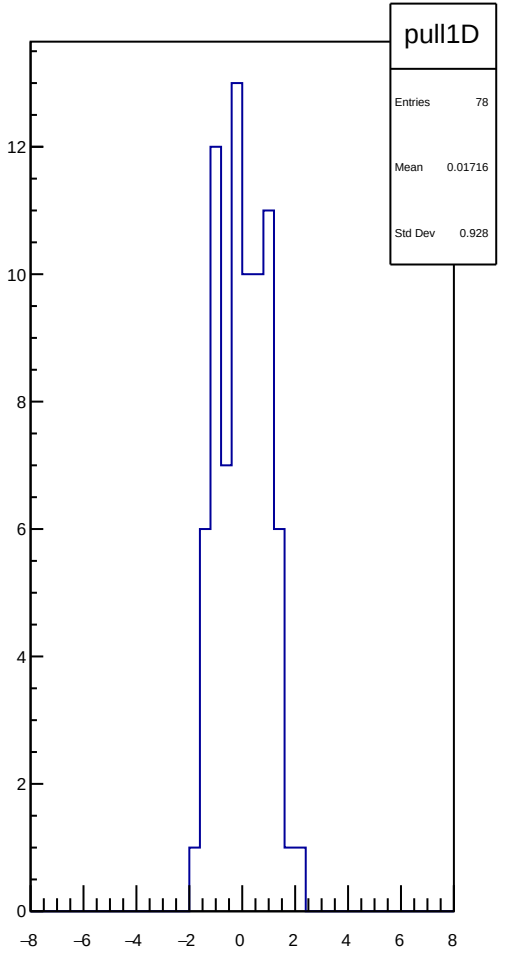

asym_sam_48_avg_rms vs run
χ² / ndf 9009 / 77
p0 1091 ± 0.8792
1400
1300
1200
1100
1000

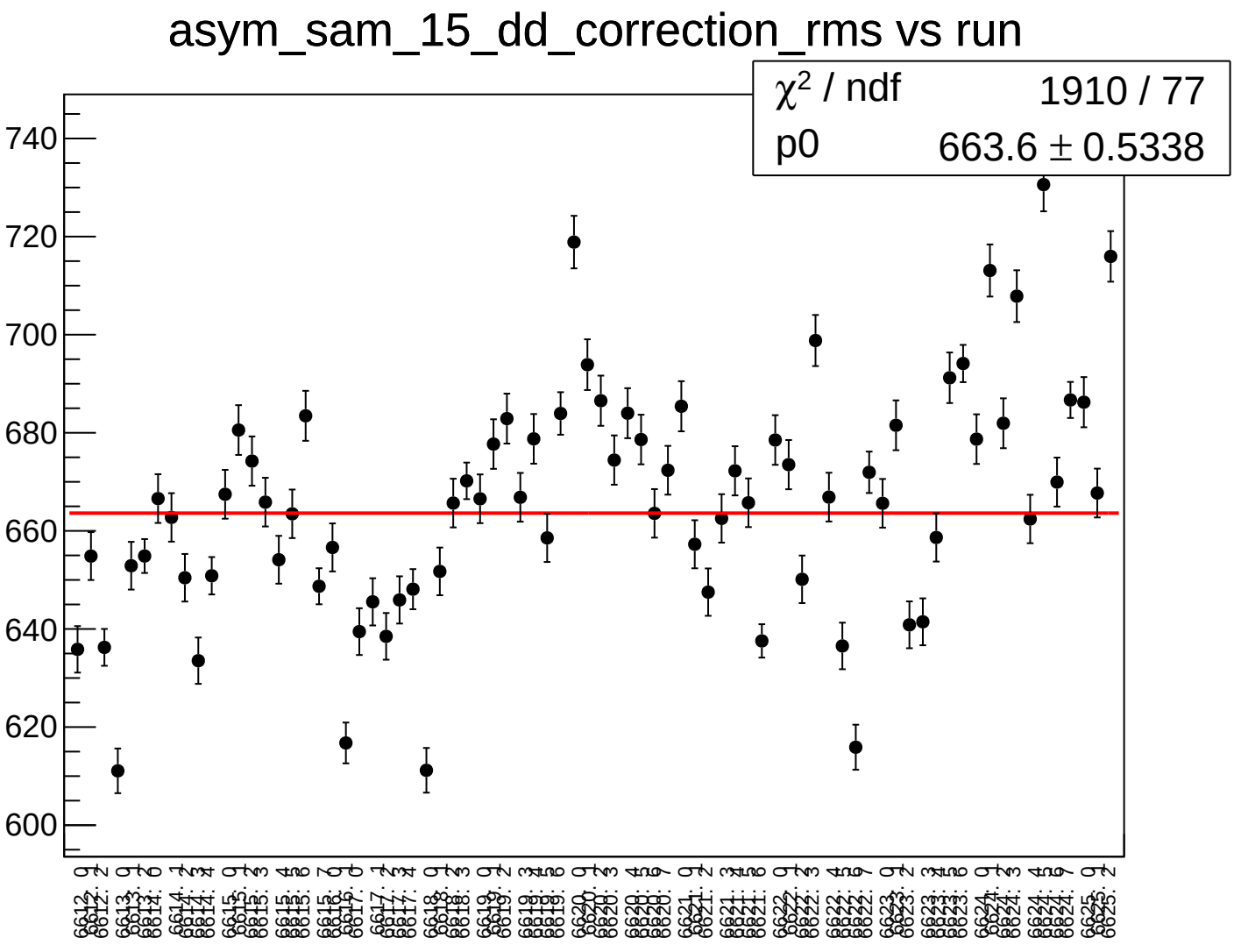

reg_asym_sam_15_dd_mean vs run
χ² / ndf 82.06 / 77
p0 −105.3 ± 109.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 78
Mean 122.8
Std Dev 117.8
2
1
0
−1
−2

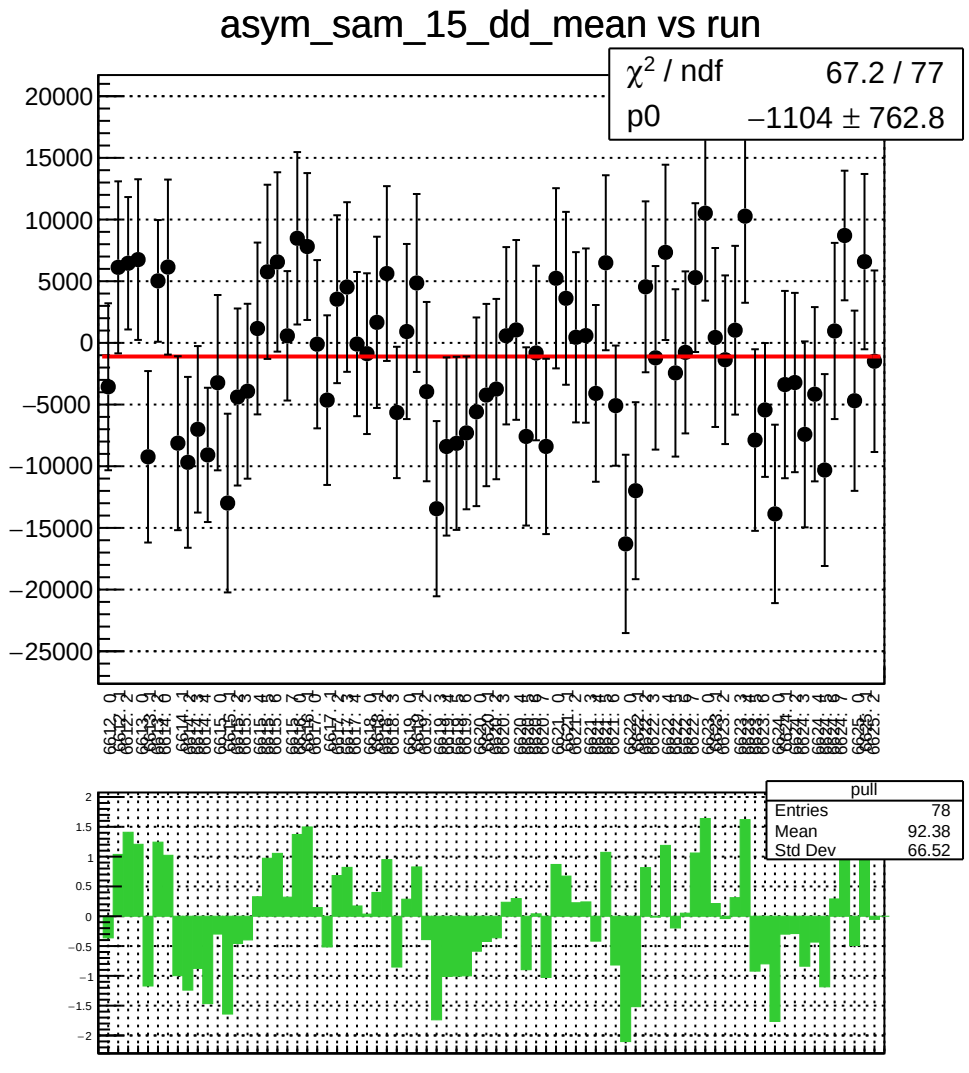

pull1D
Entries 78
Mean −0.003242
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

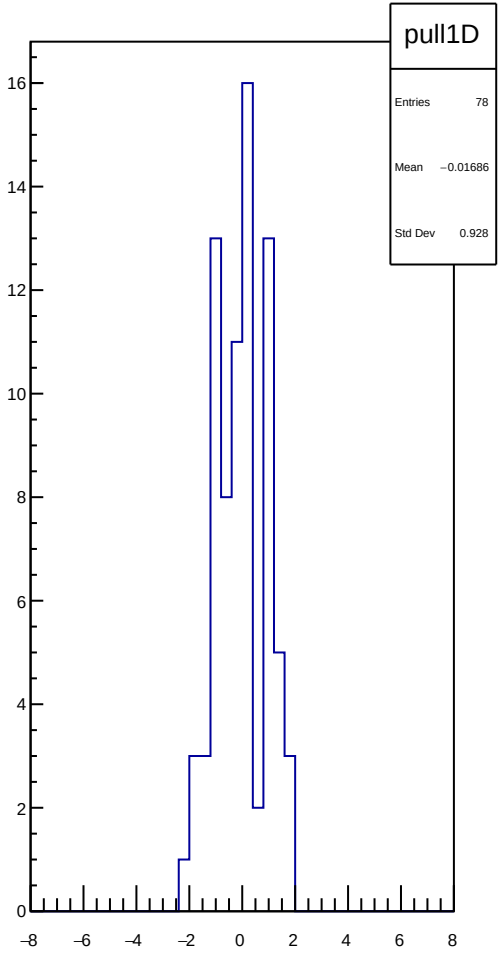

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1908 / 77
p0 96.37 ± 0.07751
106
104
102
100
98
96
94
92
90
88

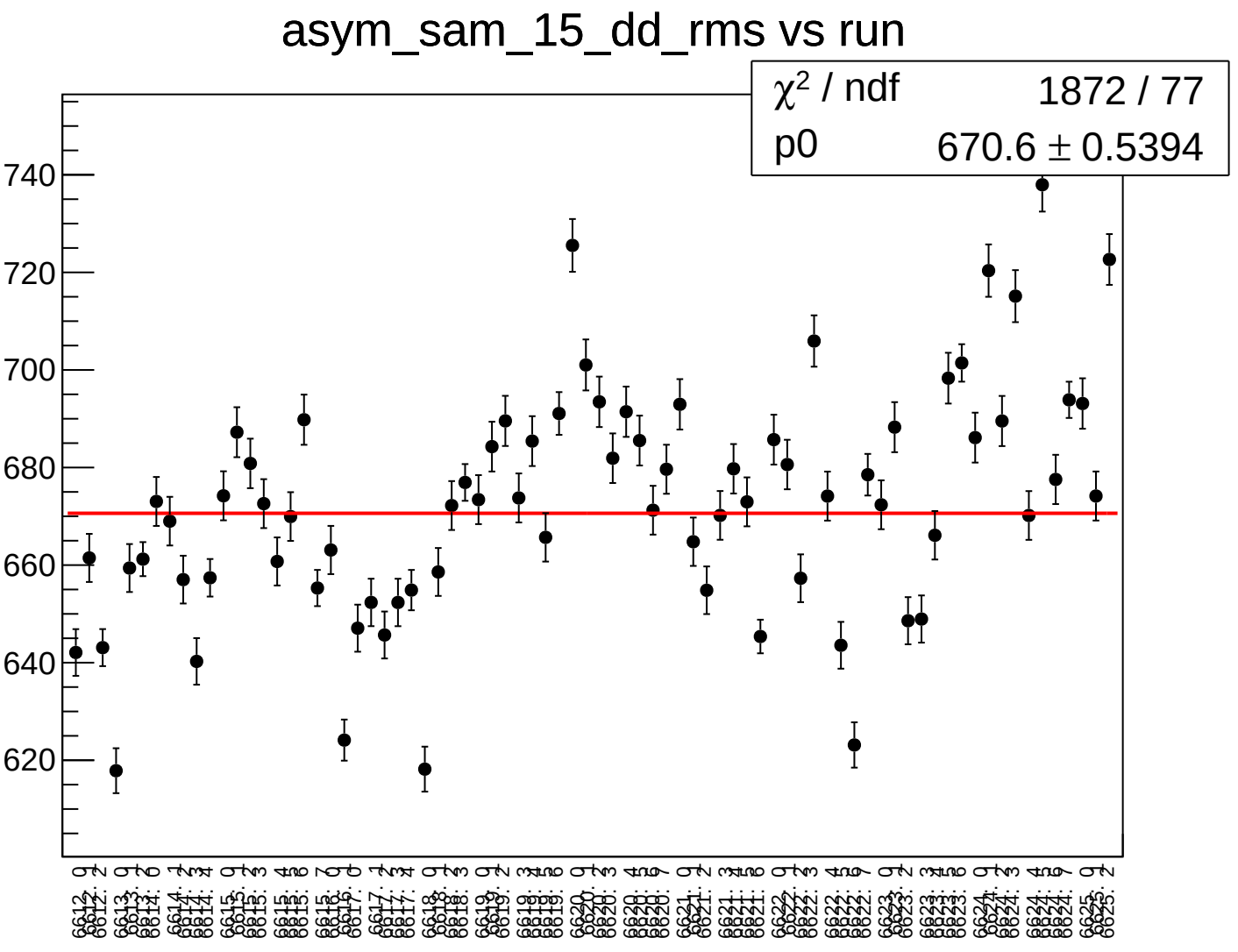

asym_sam_15_dd_correction_mean vs run
χ² / ndf 67.19 / 77
p0 989.6 ± 754.9
pull
Entries 78
Mean 88.59
Std Dev 61.76

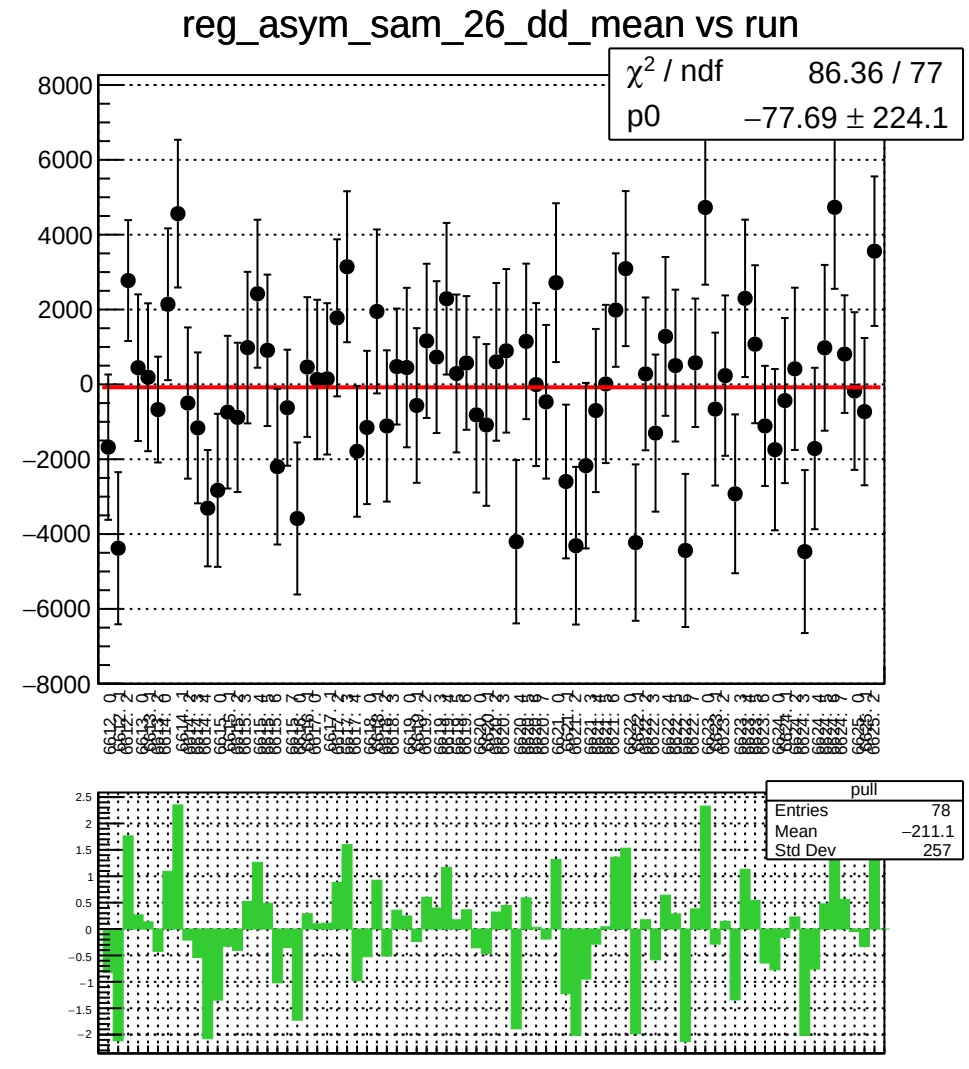

pull1D
Entries 78
Mean 0.01716
Std Dev 0.928

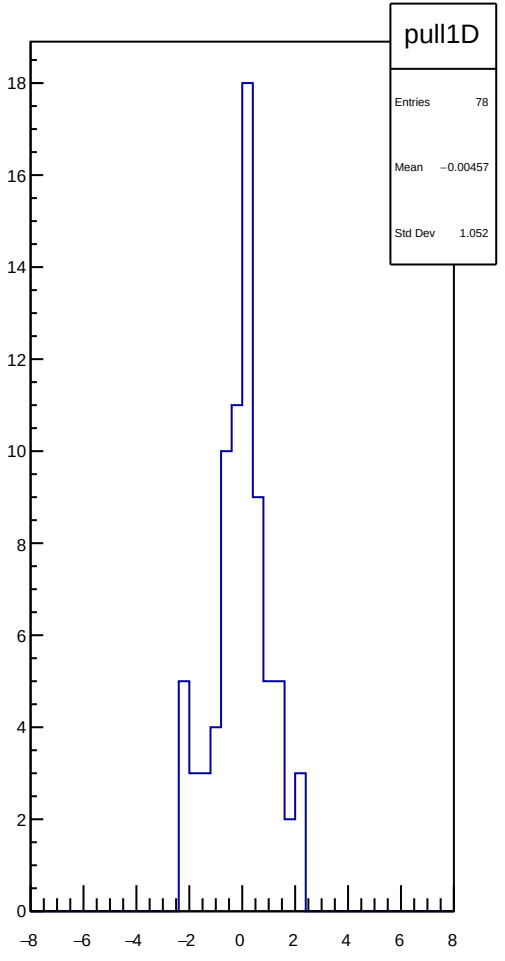

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1910 / 77
p0 663.6 ± 0.5338
740
720
700
680
660
640
620
600

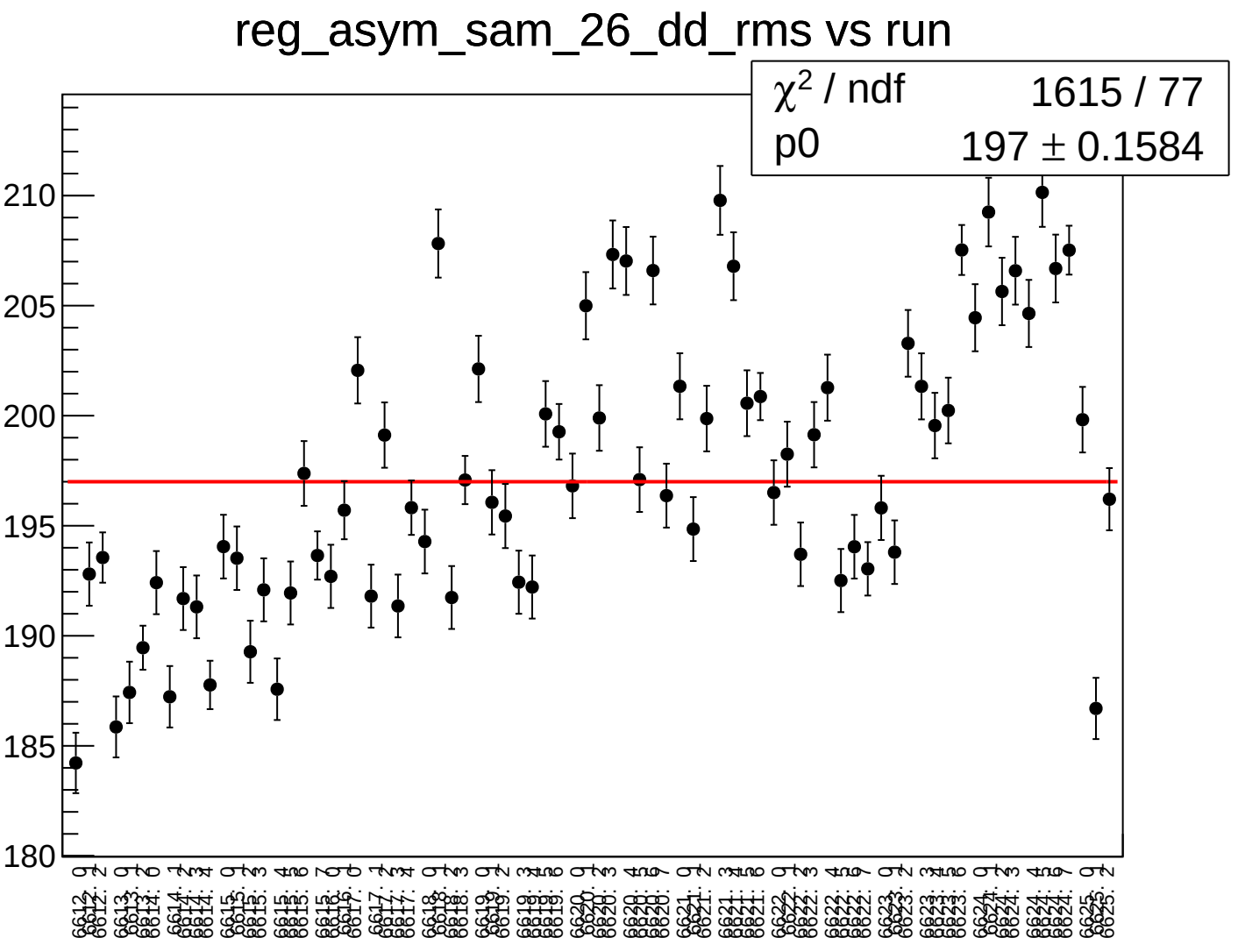

asym_sam_15_dd_mean vs run
χ² / ndf 67.2 / 77
p0 −1104 ± 762.8
pull
Entries 78
Mean 92.38
Std Dev 66.52

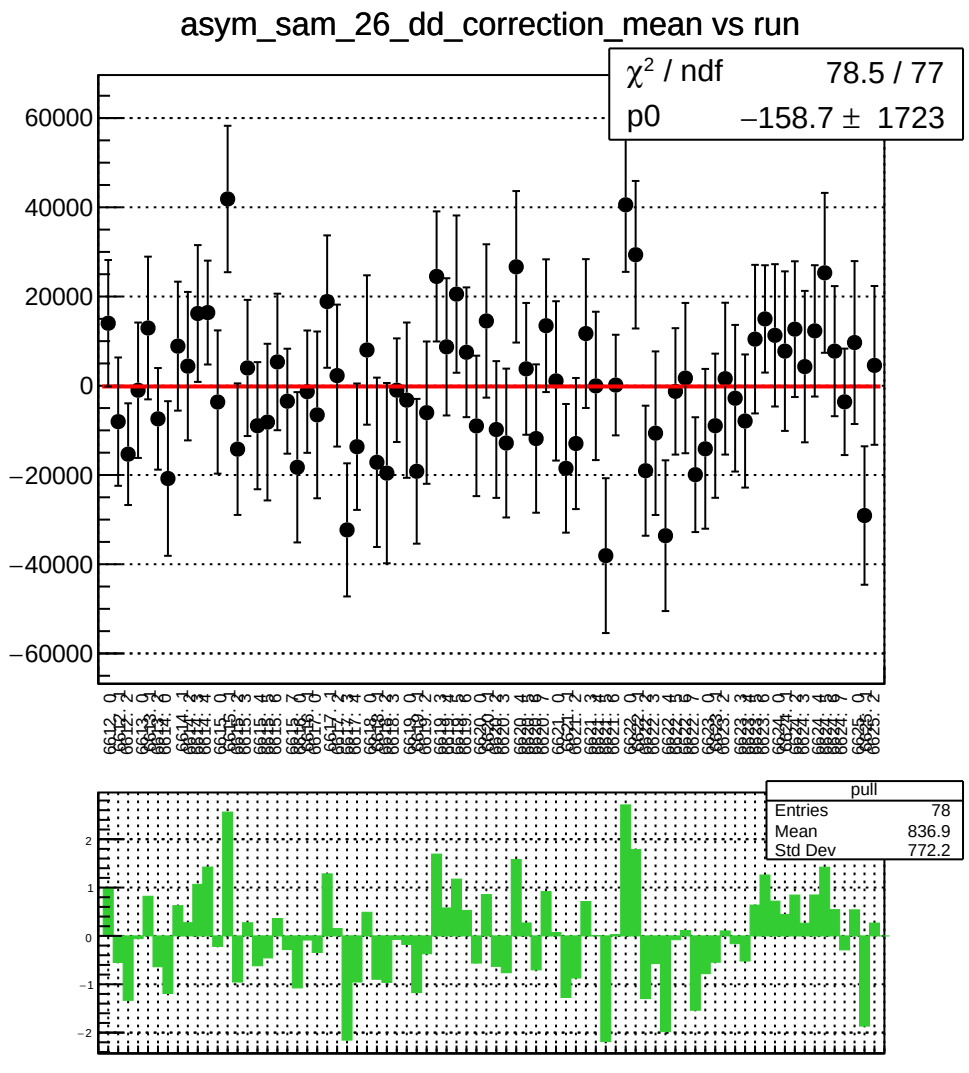

pull1D
Entries 78
Mean −0.01686
Std Dev 0.928

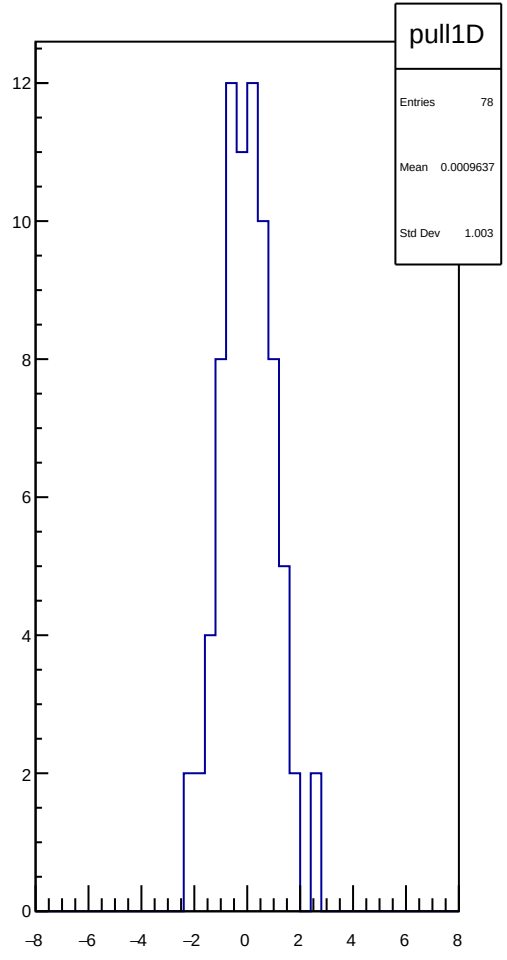

asym_sam_15_dd_rms vs run
χ² / ndf 1872 / 77
p0 670.6 ± 0.5394
740
720
700
680
660
640
620

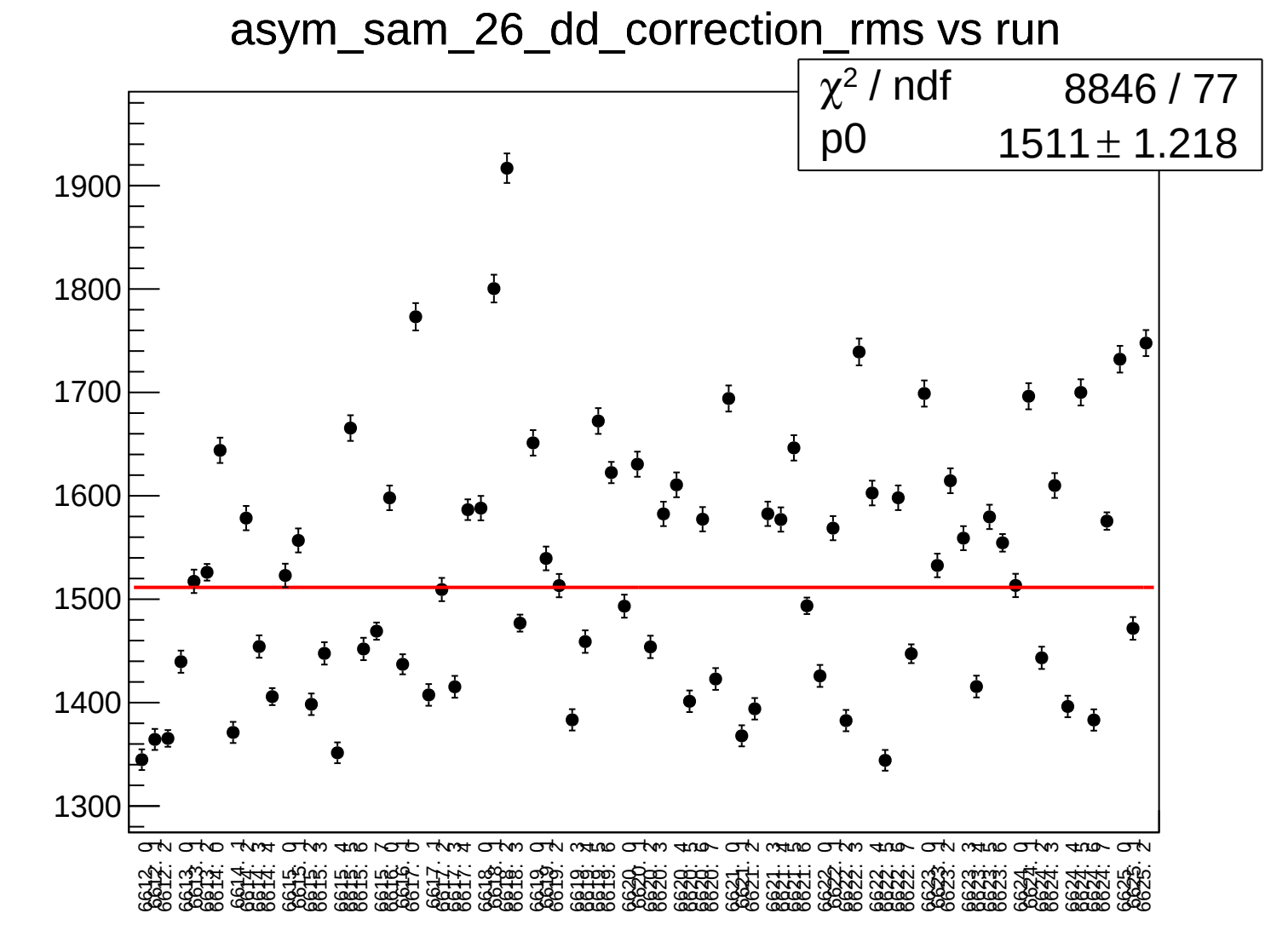

reg_asym_sam_26_dd_mean vs run
χ² / ndf 86.36 / 77
p0 −77.69 ± 224.1
pull
Entries 78
Mean −211.1
Std Dev 257

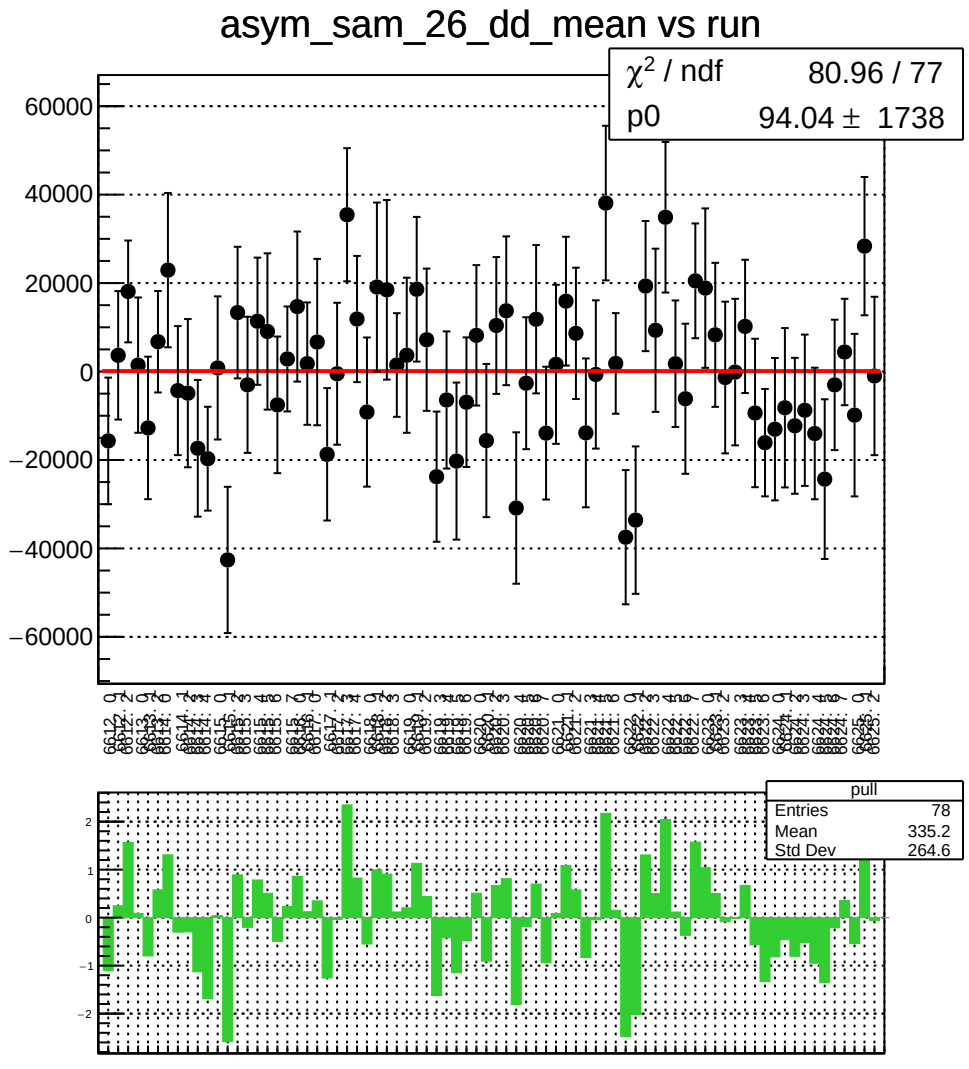

pull1D
Entries 78
Mean −0.00457
Std Dev 1.052

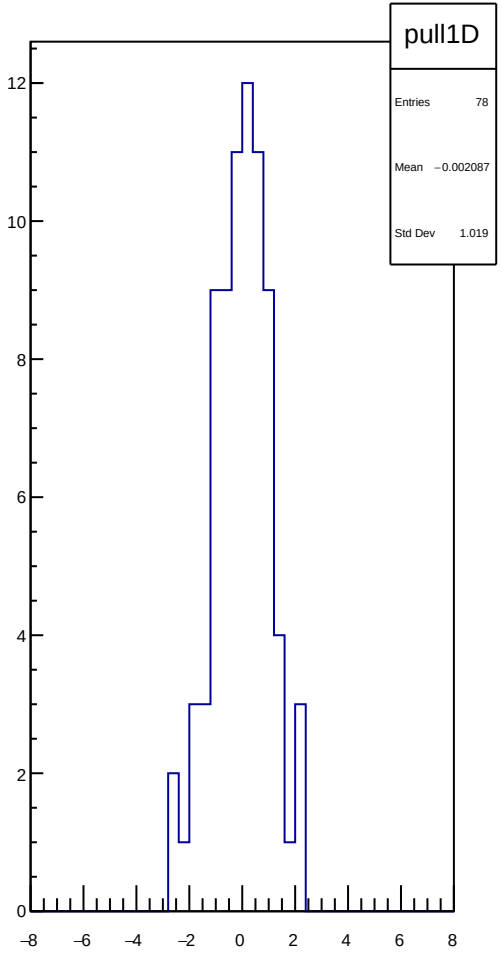

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1615 / 77
p0 197 ± 0.1584
210
205
200
195
190
185
180

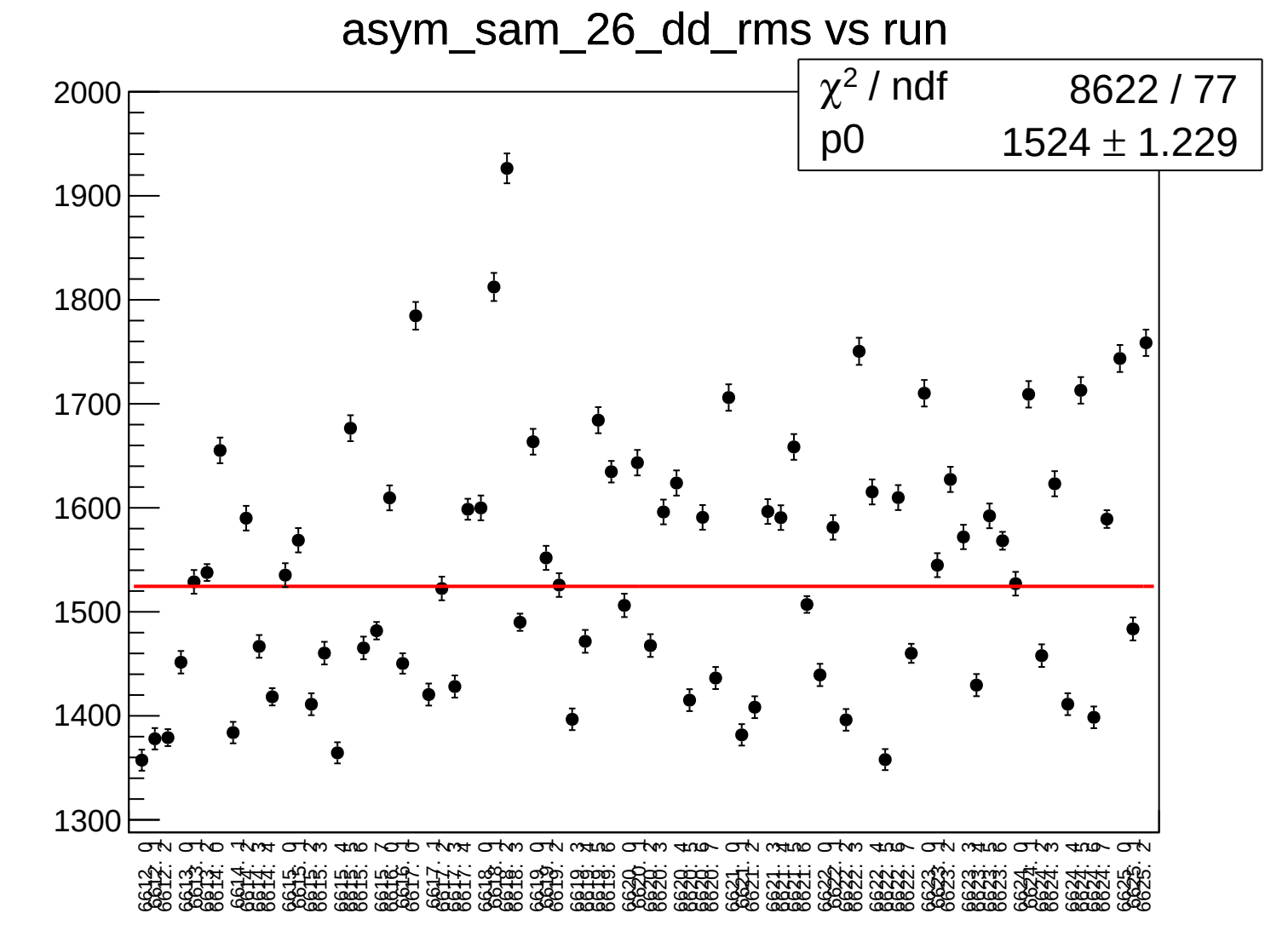

asym_sam_26_dd_correction_mean vs run
χ² / ndf 78.5 / 77
p0 −158.7 ± 1723
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 836.9
Std Dev 772.2
2
1
0
−1
−2

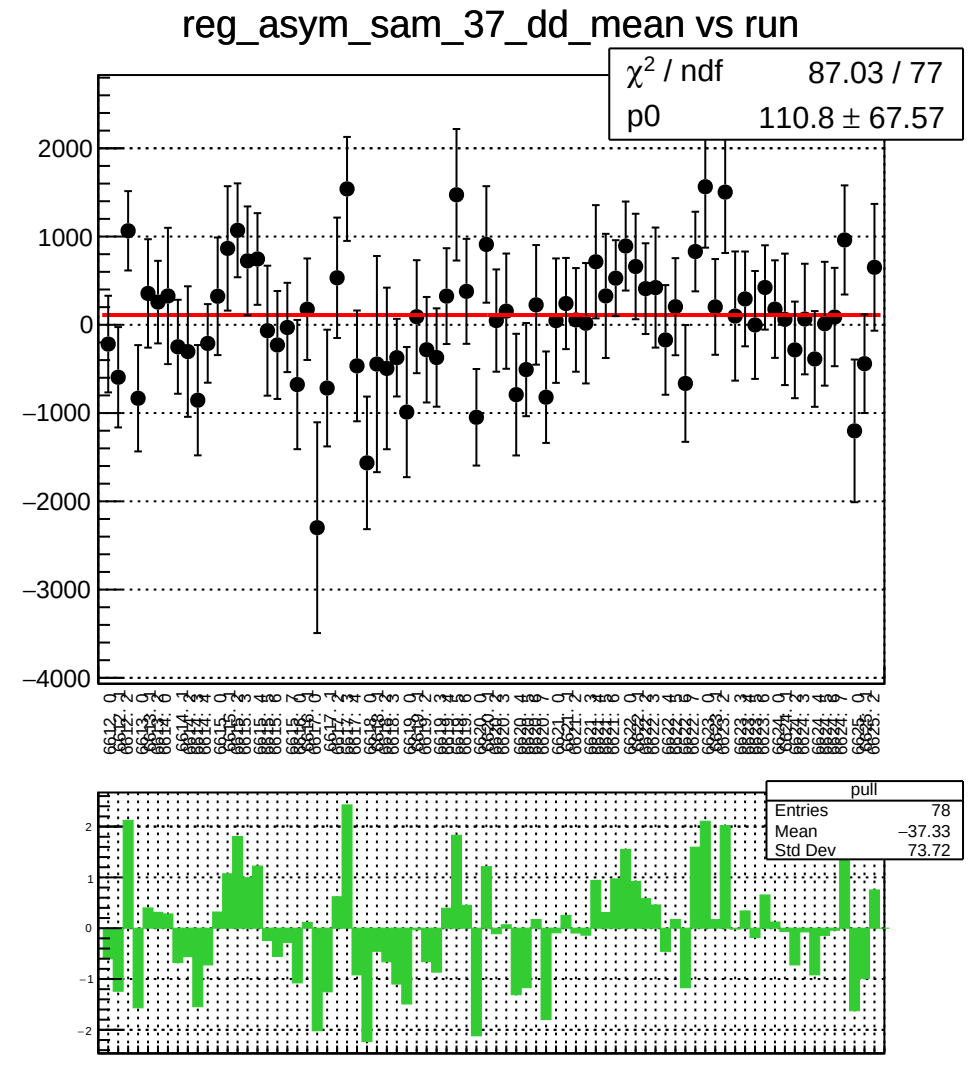

pull1D
Entries 78
Mean 0.0009637
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

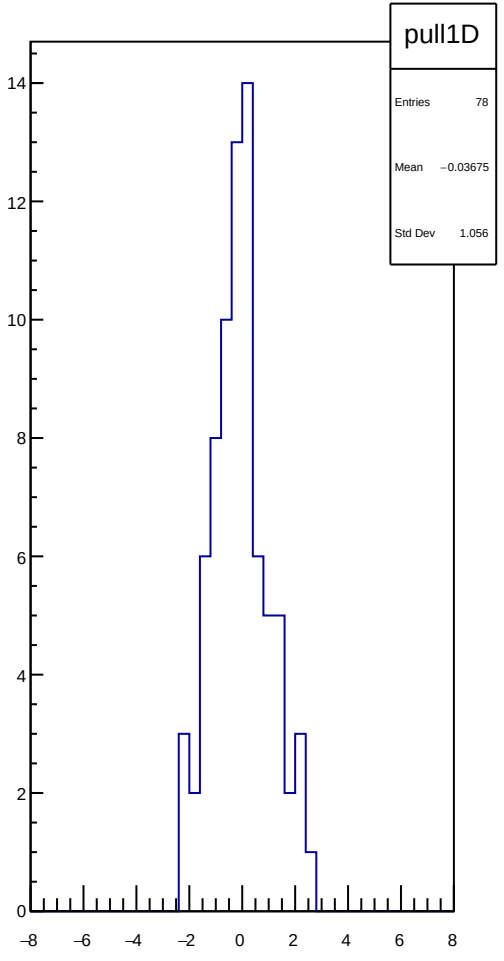

asym_sam_26_dd_correction_rms vs run
χ² / ndf 8846 / 77
p0 1511 ± 1.218
1900
1800
1700
1600
1500
1400
1300

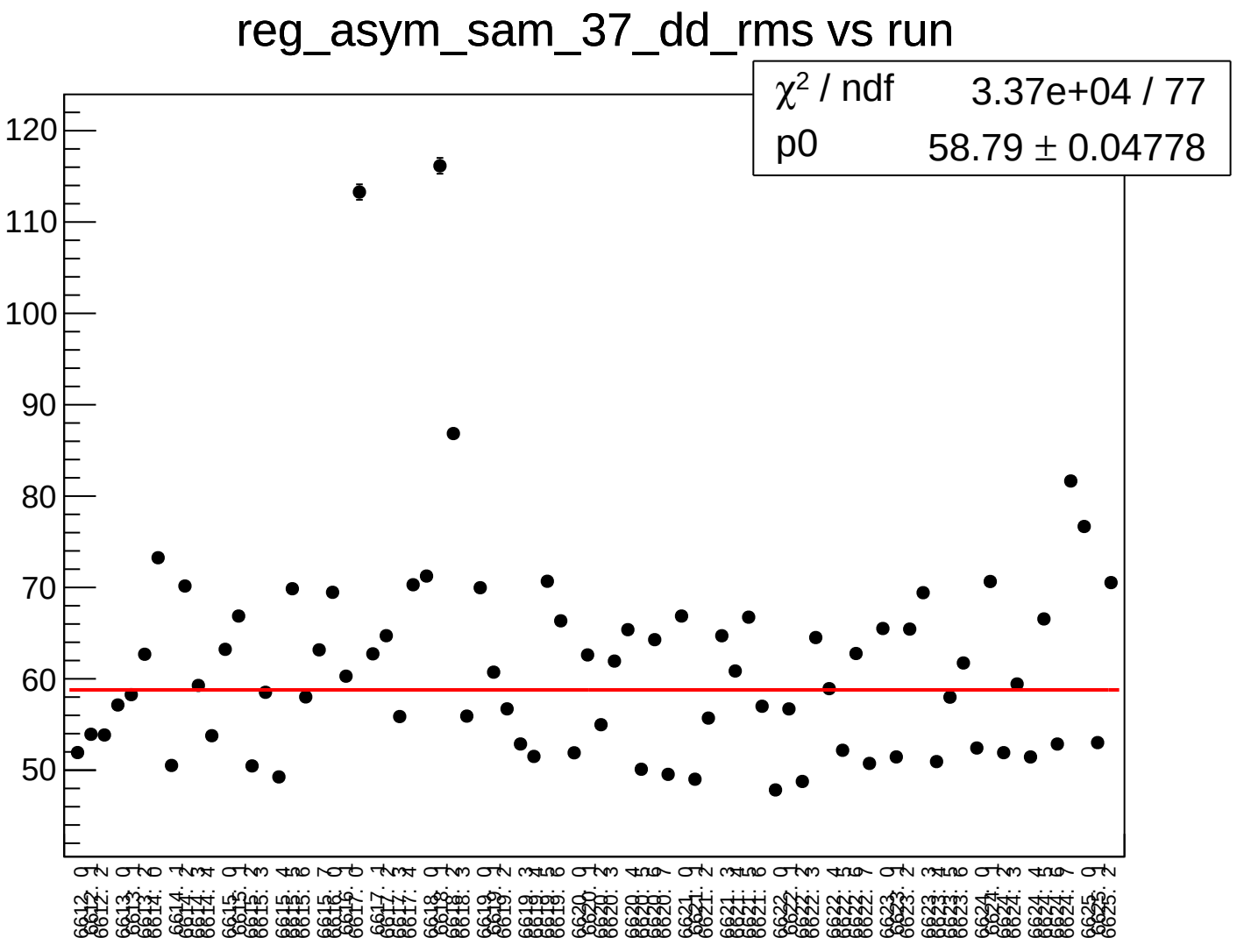

asym_sam_26_dd_mean vs run
χ² / ndf 80.96 / 77
p0 94.04 ± 1738
pull
Entries 78
Mean 335.2
Std Dev 264.6

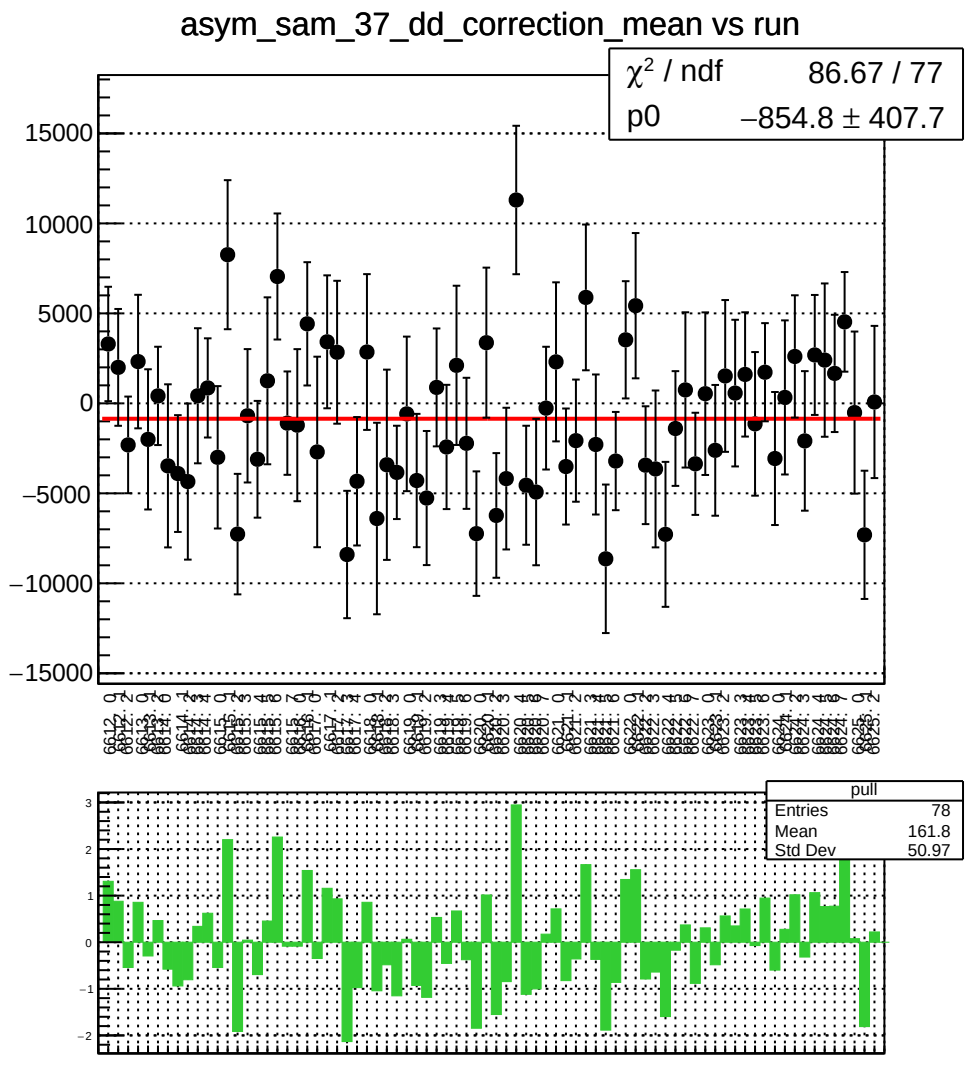

pull1D
Entries 78
Mean −0.002087
Std Dev 1.019

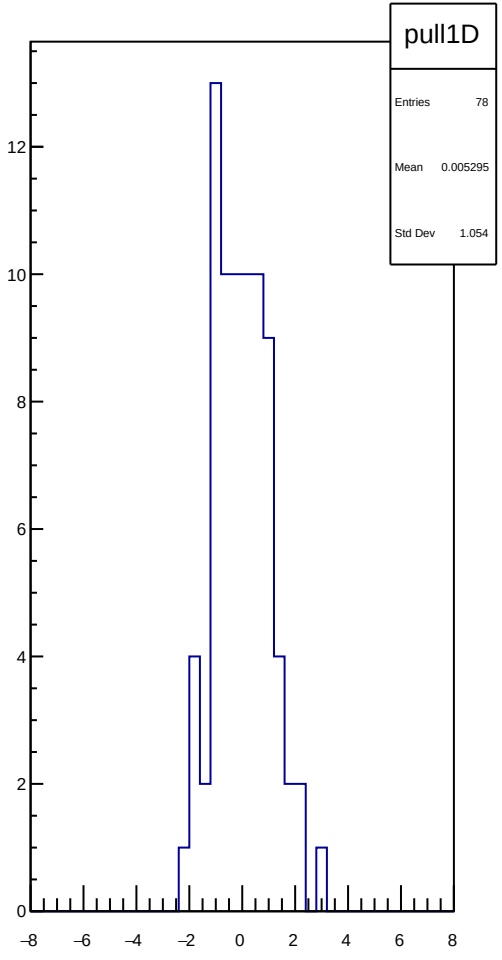

asym_sam_26_dd_rms vs run
χ² / ndf 8622 / 77
p0 1524 ± 1.229
2000
1900
1800
1700
1600
1500
1400
1300

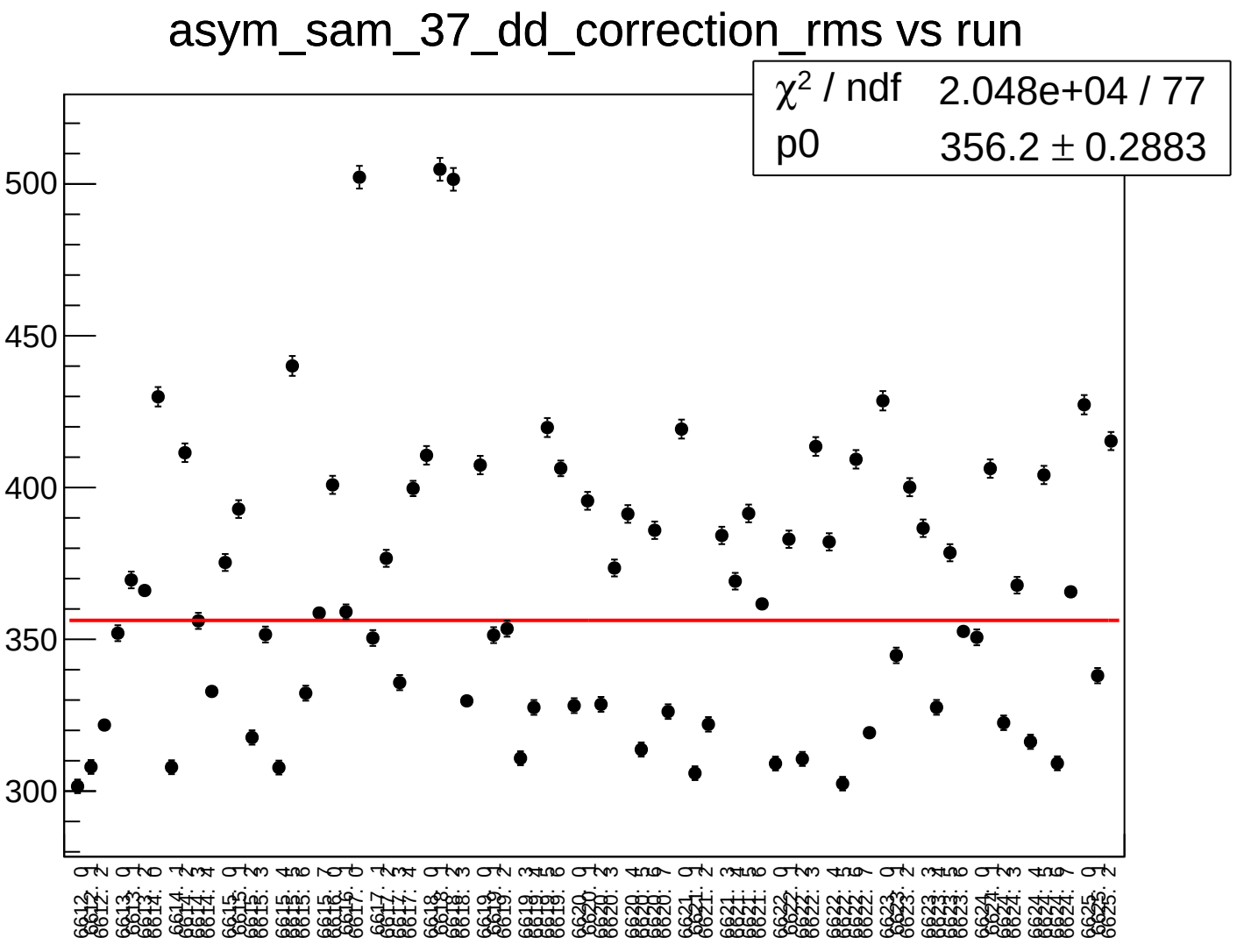

reg_asym_sam_37_dd_mean vs run
χ² / ndf 87.03 / 77
p0 110.8 ± 67.57
pull
Entries 78
Mean −37.33
Std Dev 73.72

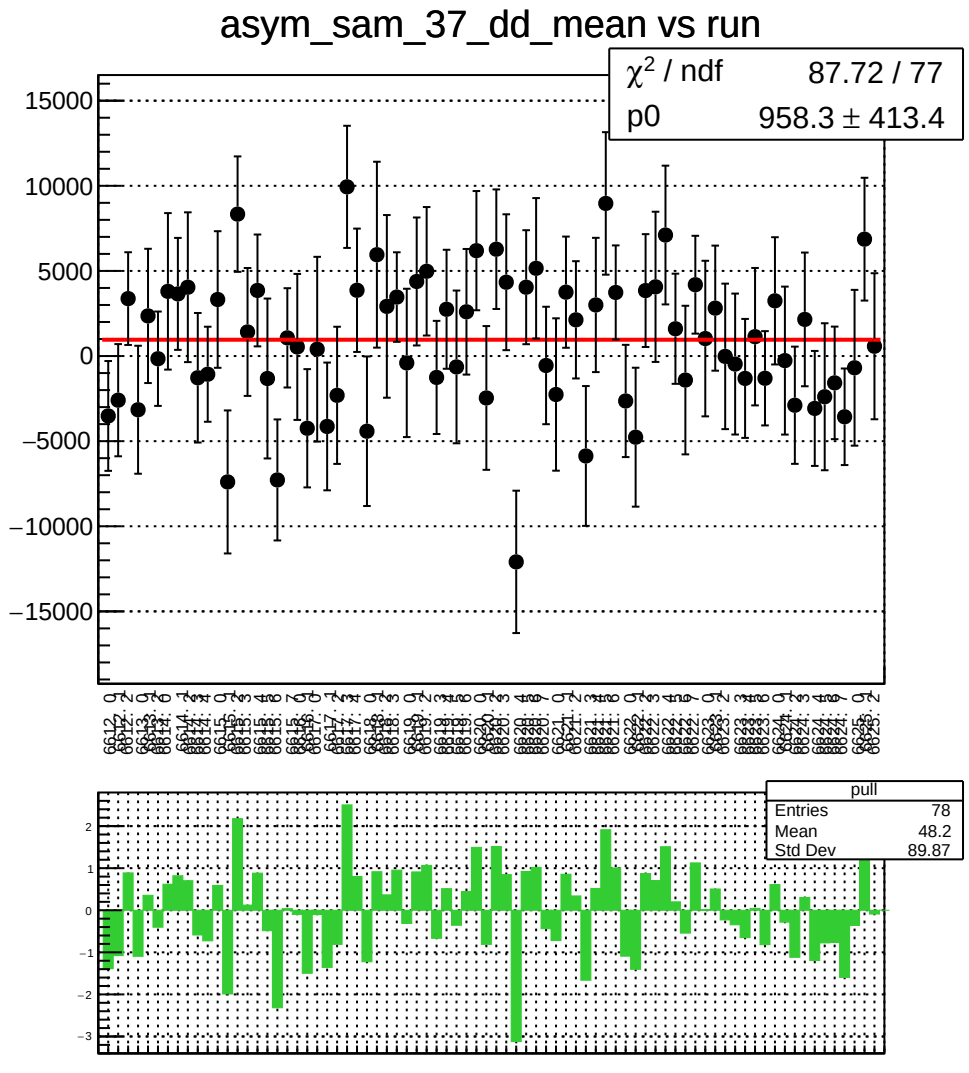

pull1D
Entries 78
Mean −0.03675
Std Dev 1.056

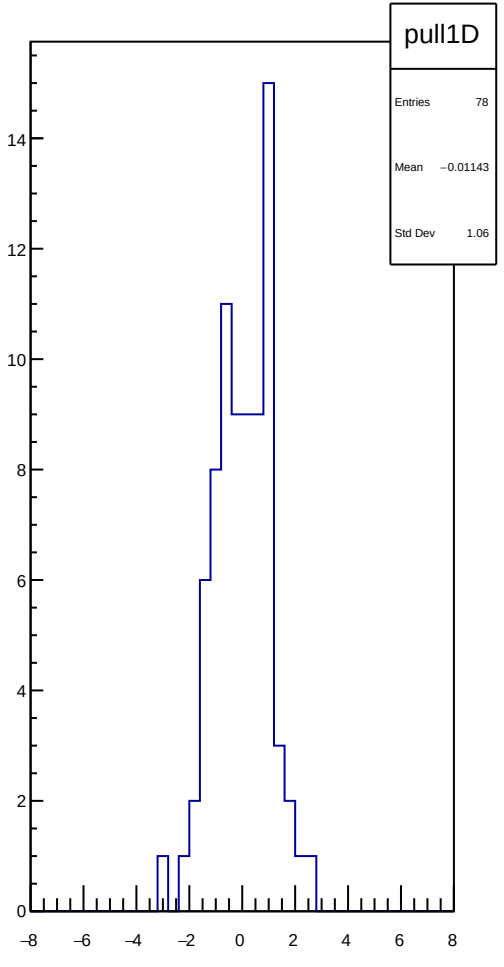

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.37e+04 / 77
p0 58.79 ± 0.04778
120
110
100
90
80
70
60
50

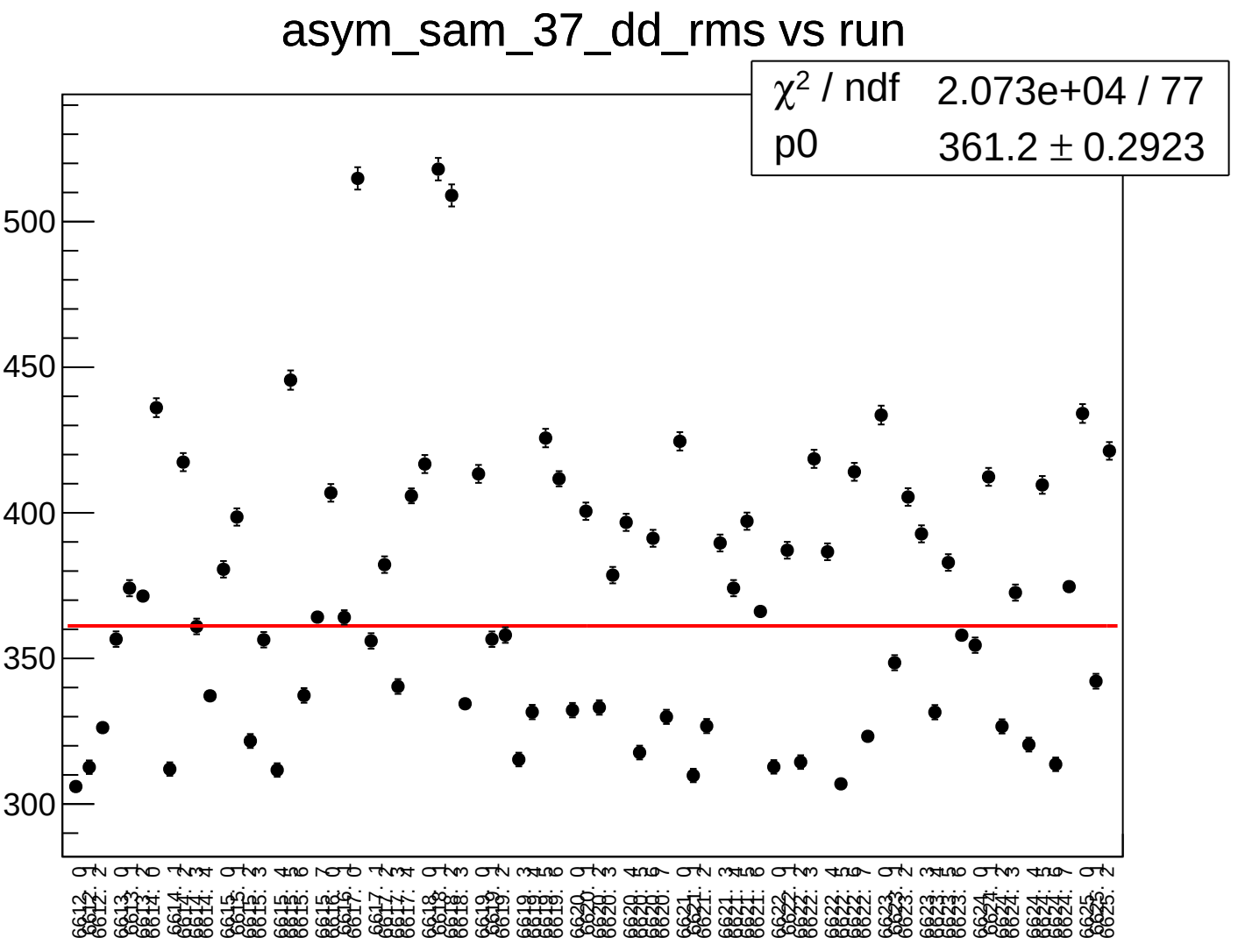

asym_sam_37_dd_correction_mean vs run
χ² / ndf 86.67 / 77
p0 −854.8 ± 407.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 161.8
Std Dev 50.97
3
2
1
0
−1
−2

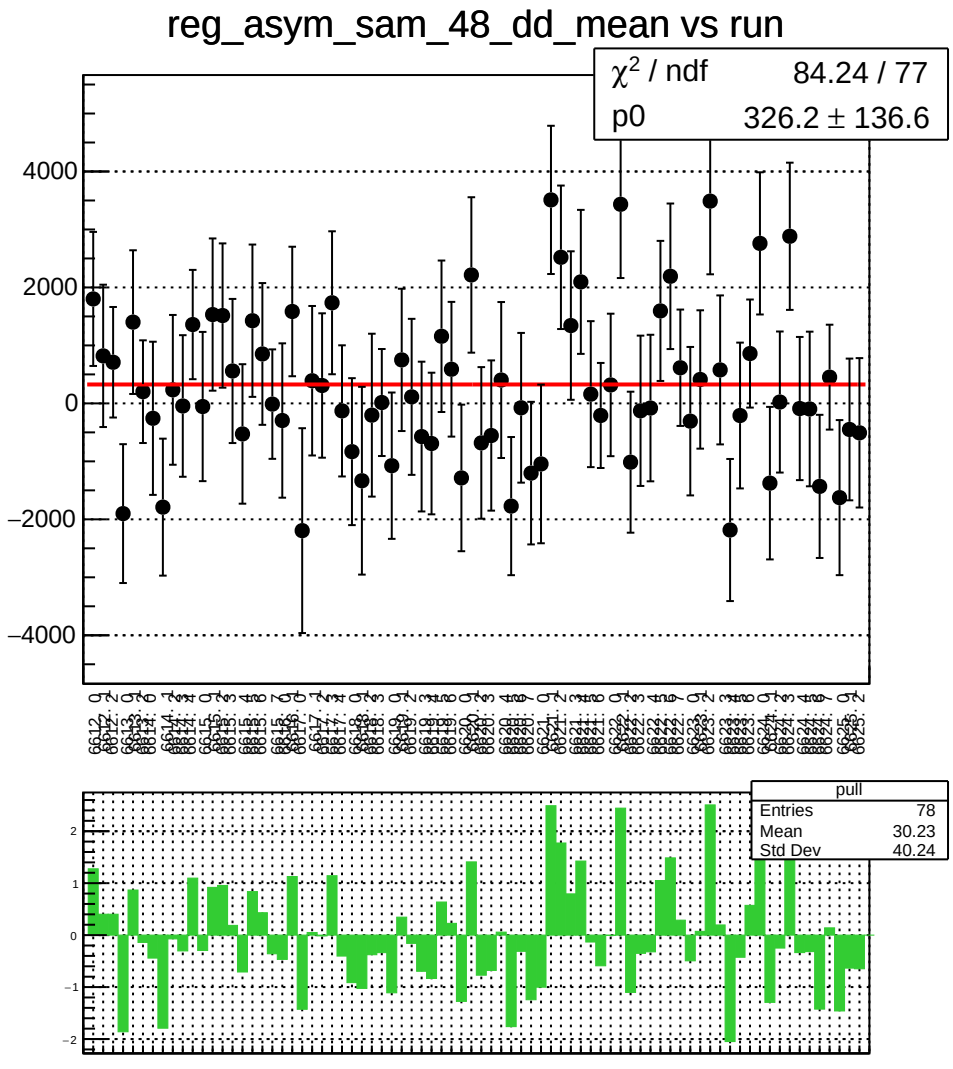

pull1D
Entries 78
Mean 0.005295
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

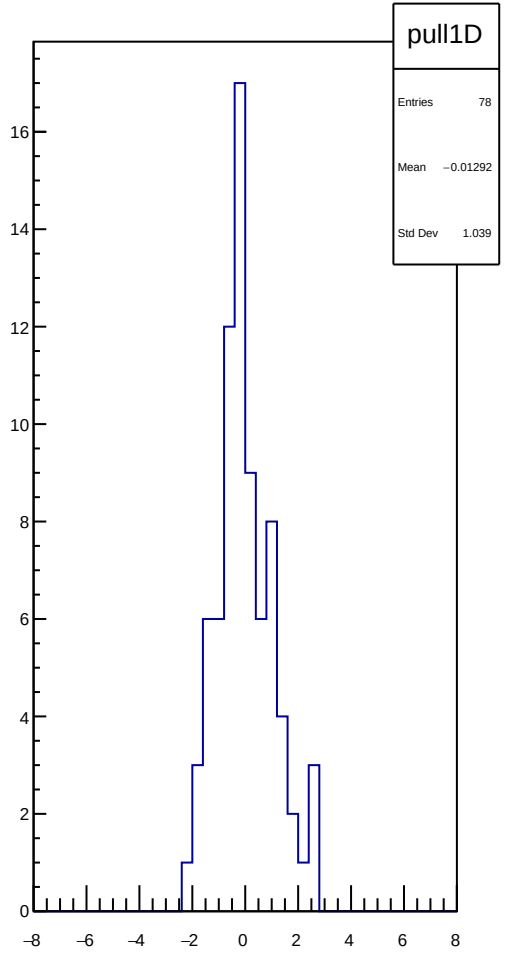

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2.048e+04 / 77
p0 356.2 ± 0.2883
500
450
400
350
300

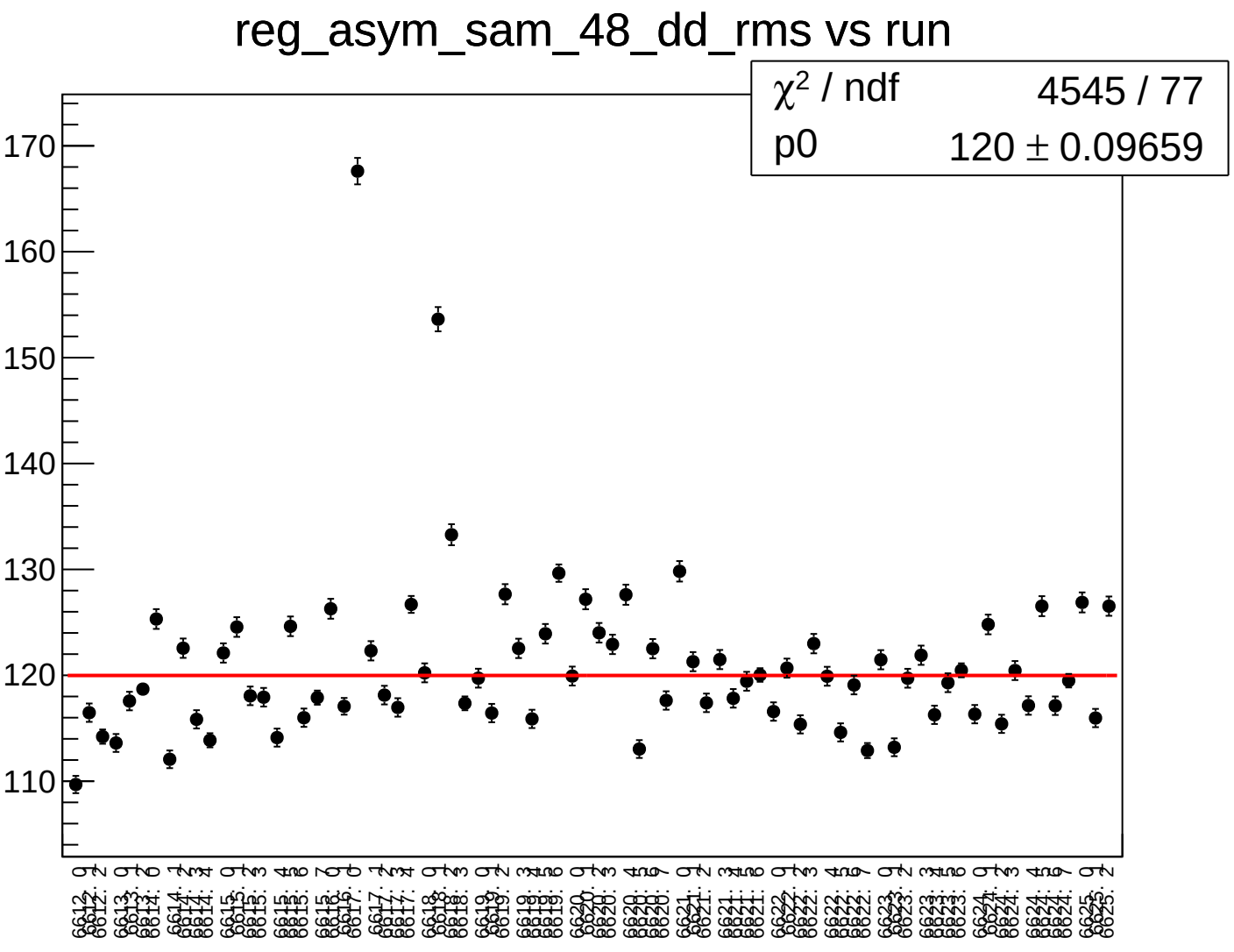

asym_sam_37_dd_mean vs run
χ² / ndf 87.72 / 77
p0 958.3 ± 413.4
pull
Entries 78
Mean 48.2
Std Dev 89.87

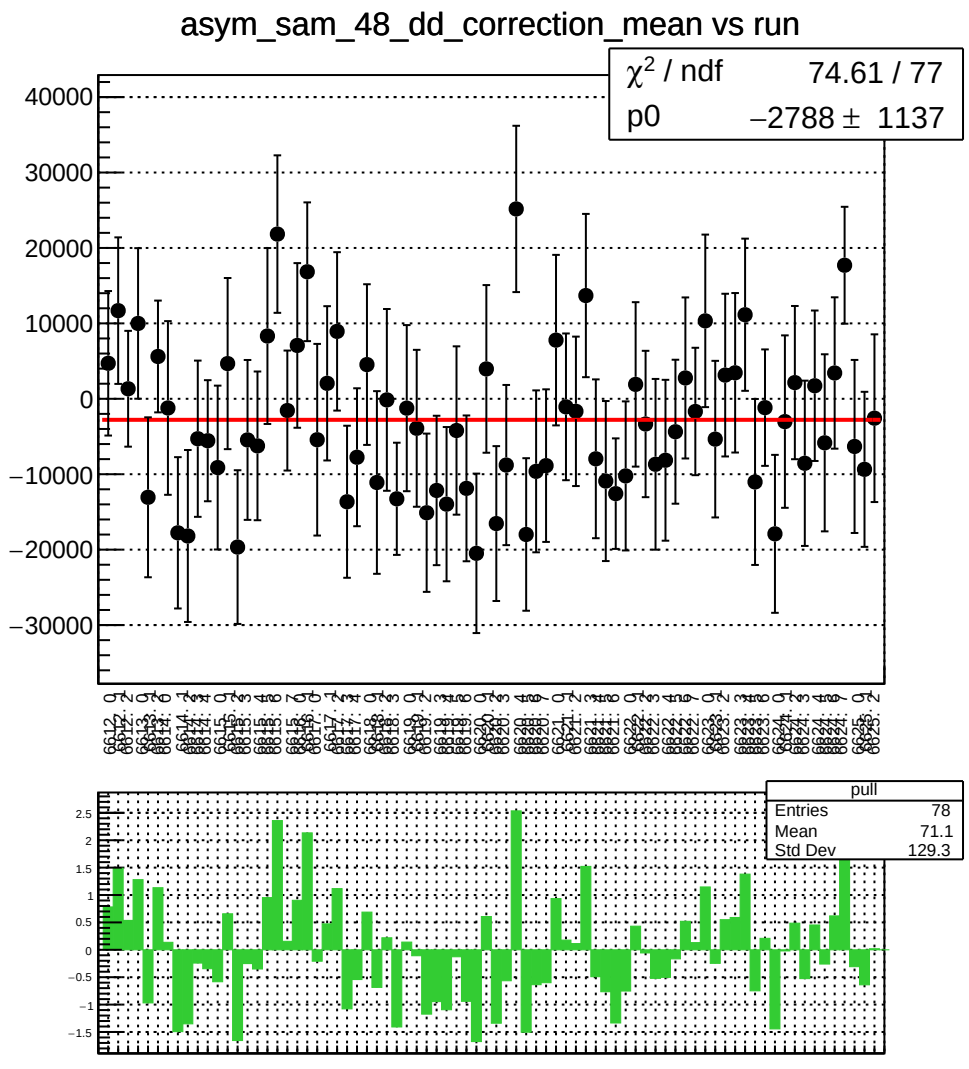

pull1D
Entries 78
Mean −0.01143
Std Dev 1.06

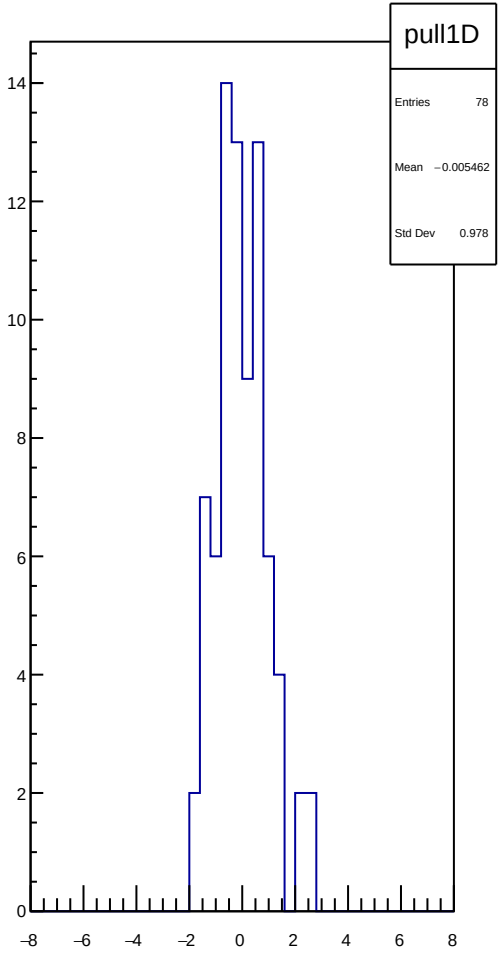

asym_sam_37_dd_rms vs run
χ² / ndf 2.073e+04 / 77
p0 361.2 ± 0.2923
500
450
400
350
300

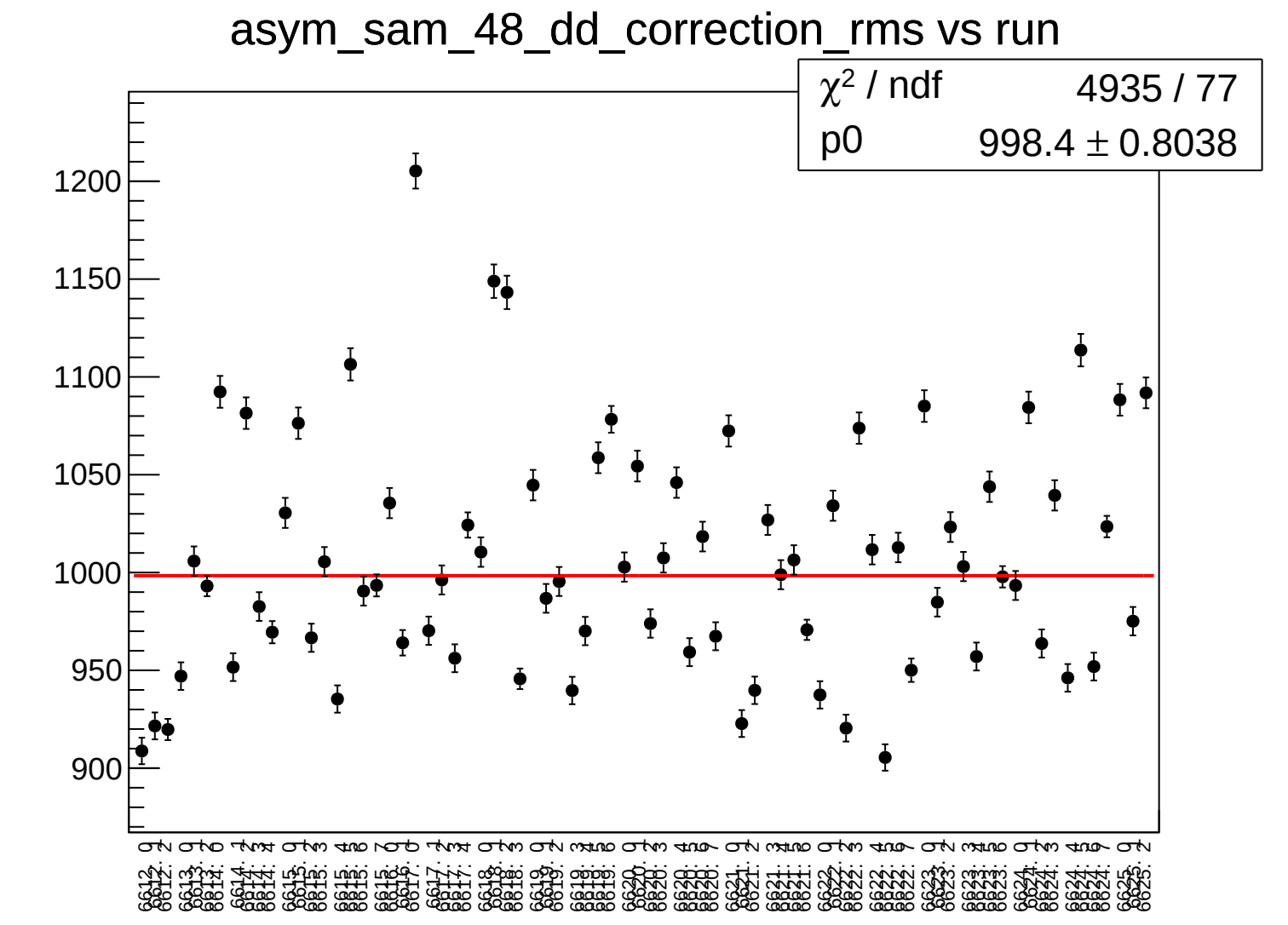

reg_asym_sam_48_dd_mean vs run
χ² / ndf 84.24 / 77
p0 326.2 ± 136.6
4000
2000
0
−2000
−4000
pull
Entries 78
Mean 30.23
Std Dev 40.24
2
1
0
−1
−2

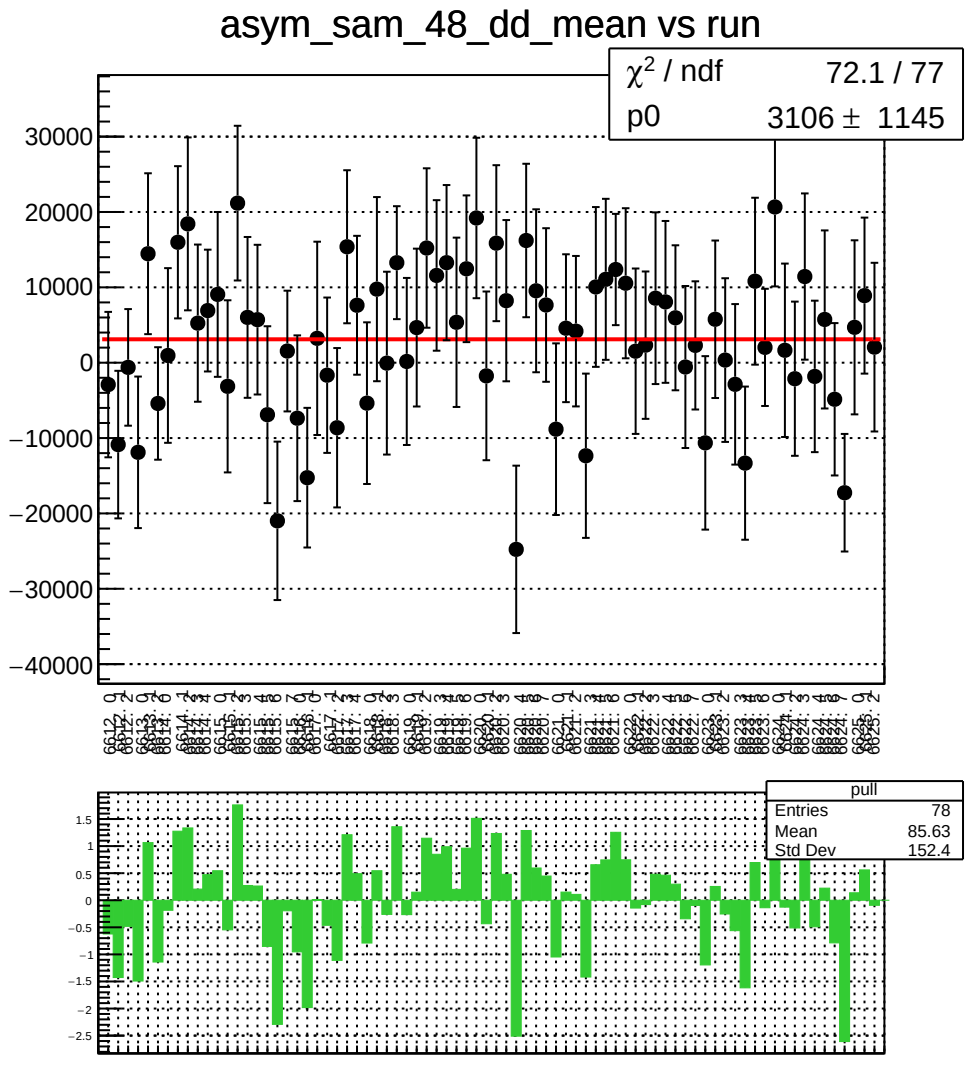

pull1D
Entries 78
Mean −0.01292
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

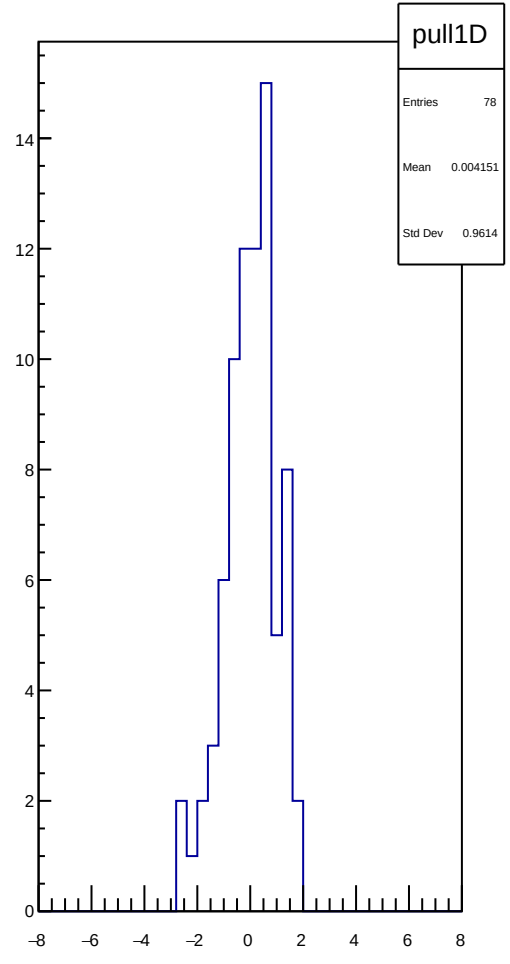

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4545 / 77
p0 120 ± 0.09659
170
160
150
140
130
120
110

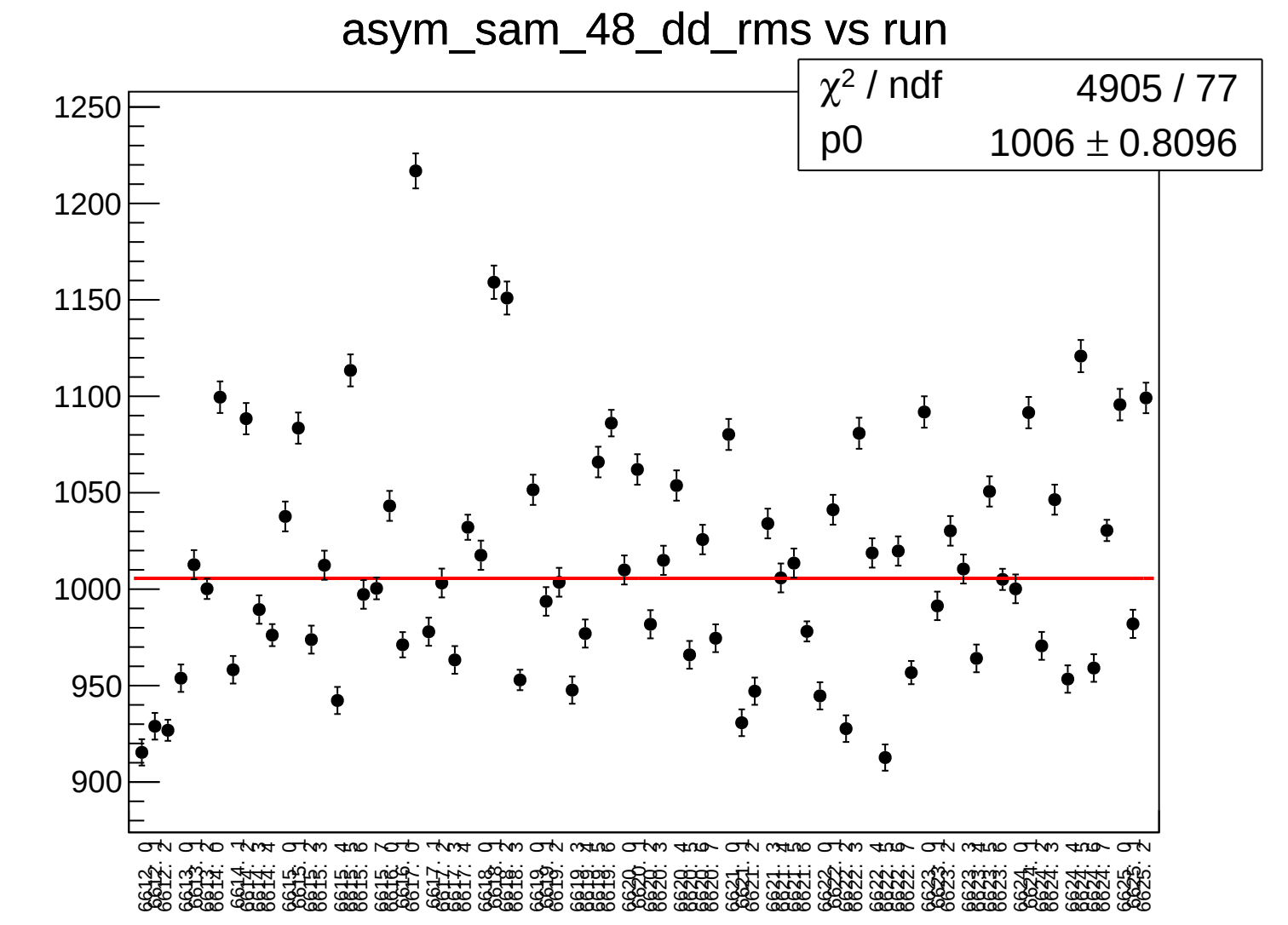

asym_sam_48_dd_correction_mean vs run
χ² / ndf 74.61 / 77
p0 −2788 ± 1137
pull
Entries 78
Mean 71.1
Std Dev 129.3

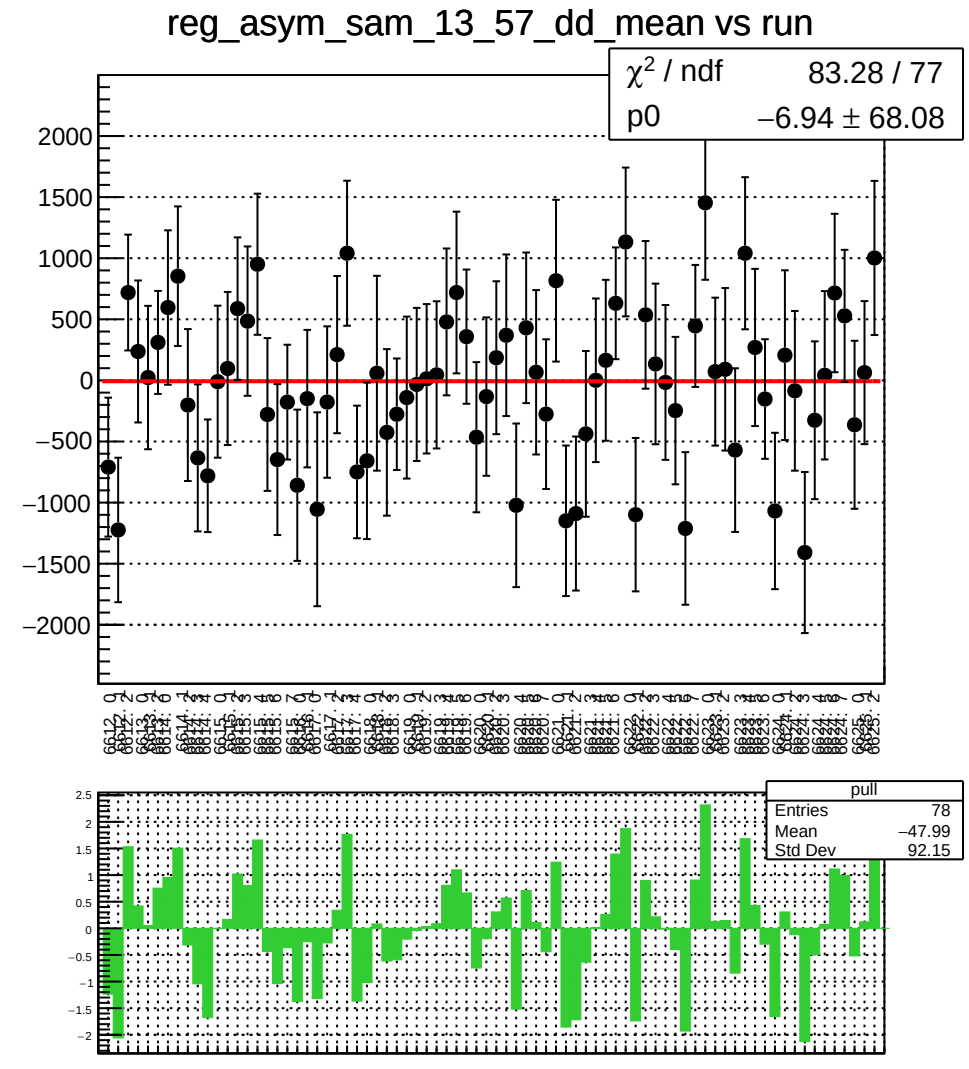

pull1D
Entries 78
Mean −0.005462
Std Dev 0.978

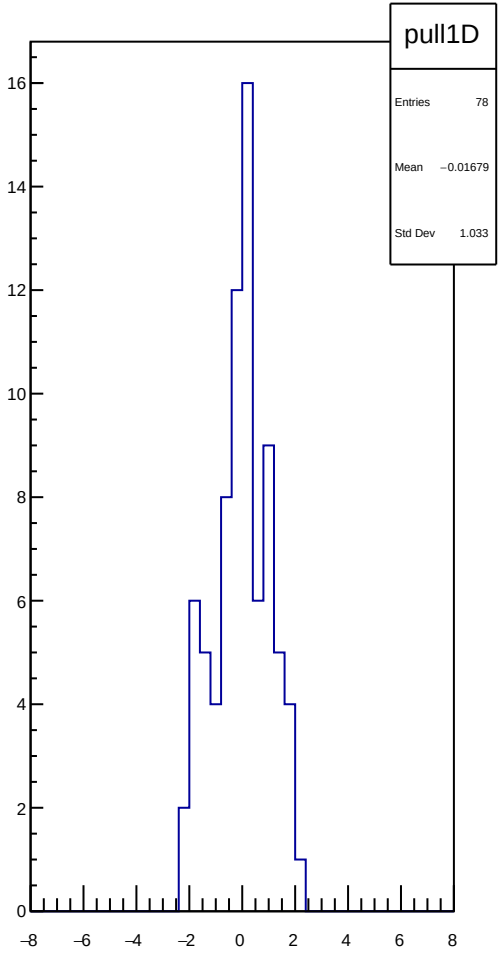

asym_sam_48_dd_correction_rms vs run
χ² / ndf 4935 / 77
p0 998.4 ± 0.8038
1200
1150
1100
1050
1000
950
900

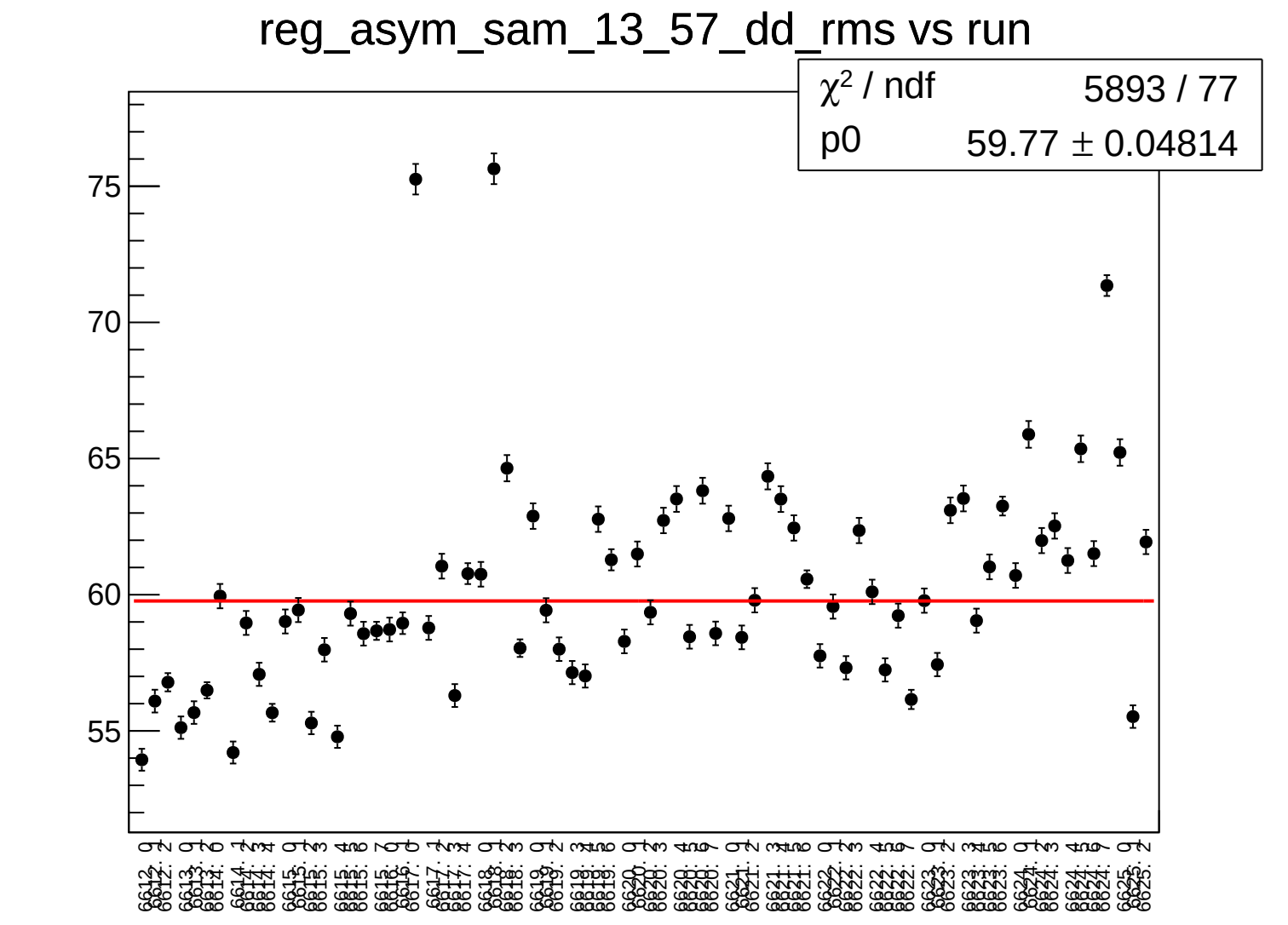

asym_sam_48_dd_mean vs run
χ² / ndf 72.1 / 77
p0 3106 ± 1145
pull
Entries 78
Mean 85.63
Std Dev 152.4

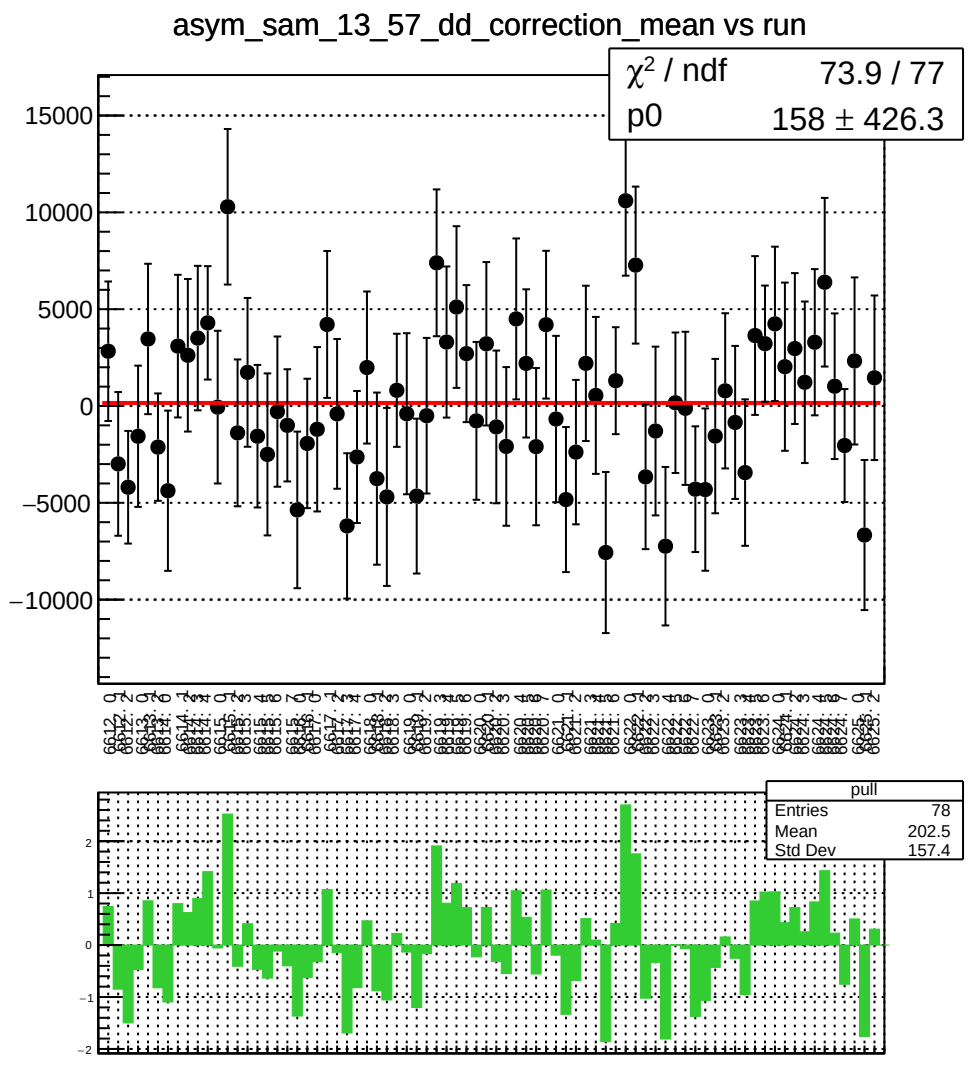

pull1D
Entries 78
Mean 0.004151
Std Dev 0.9614

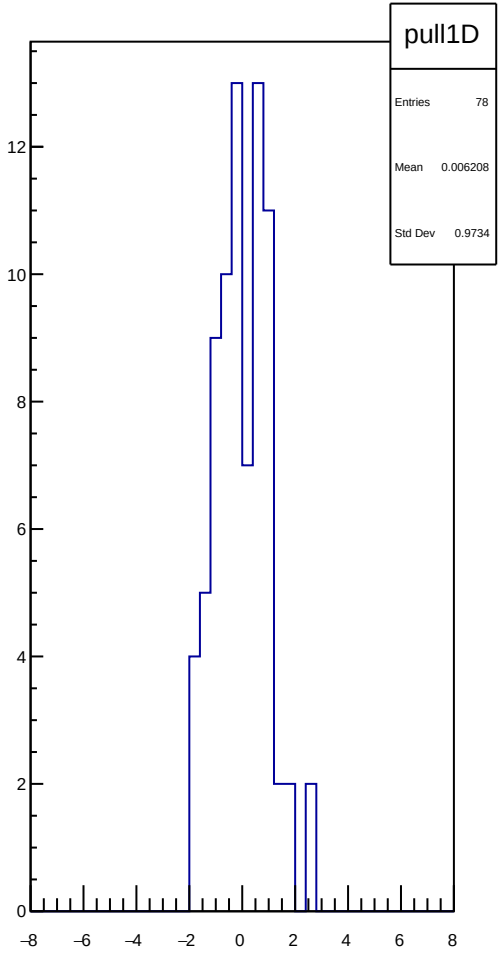

asym_sam_48_dd_rms vs run
χ² / ndf 4905 / 77
p0 1006 ± 0.8096
1250
1200
1150
1100
1050
1000
950
900

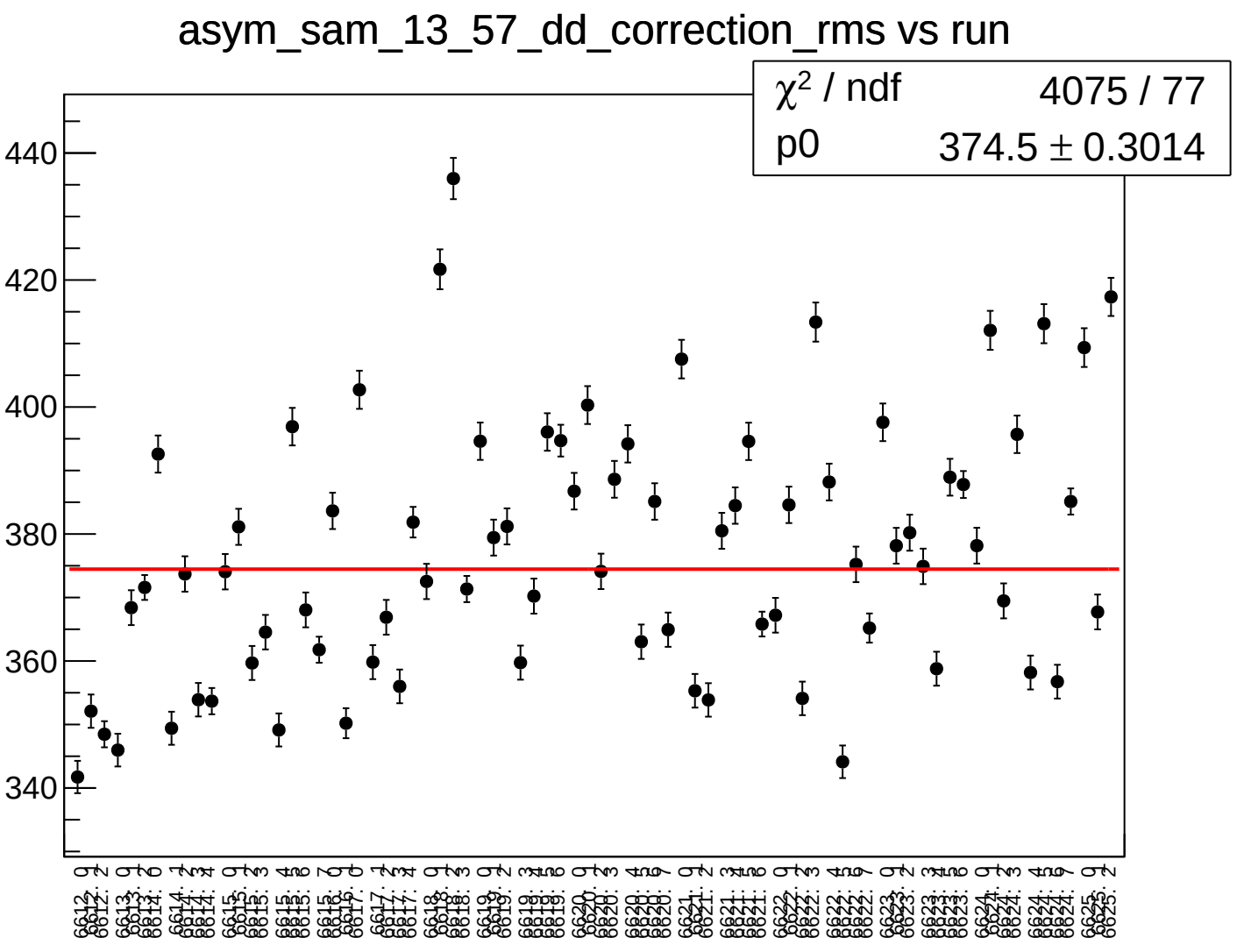

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 83.28 / 77
p0 −6.94 ± 68.08
pull
Entries 78
Mean −47.99
Std Dev 92.15

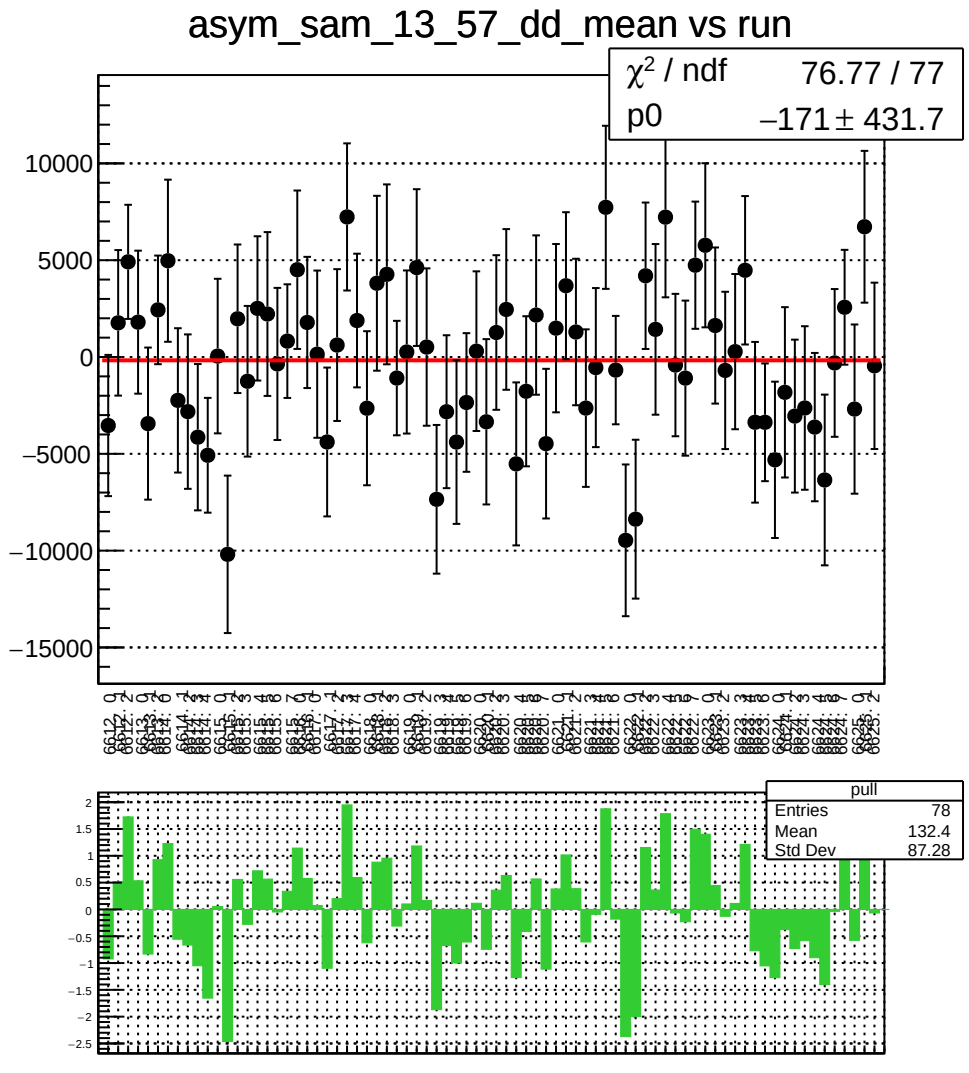

pull1D
Entries 78
Mean −0.01679
Std Dev 1.033

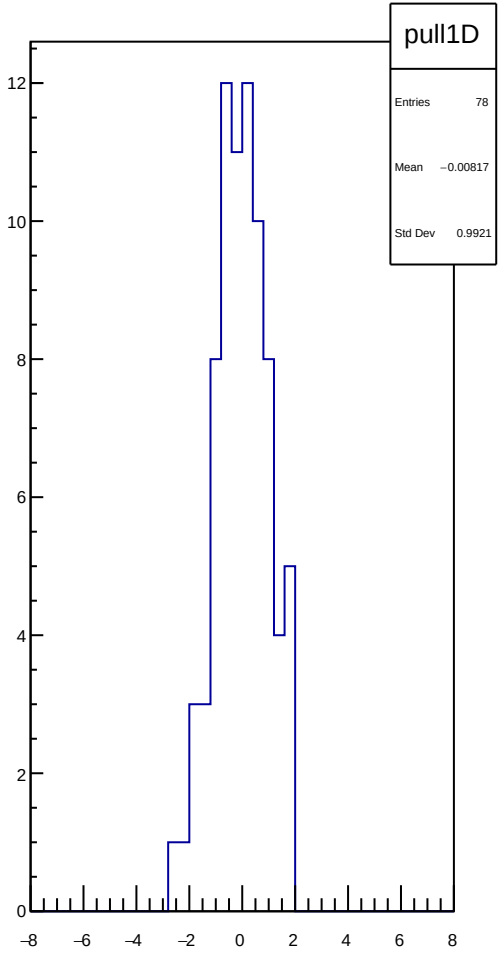

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 5893 / 77
p0 59.77 ± 0.04814
75
70
65
60
55

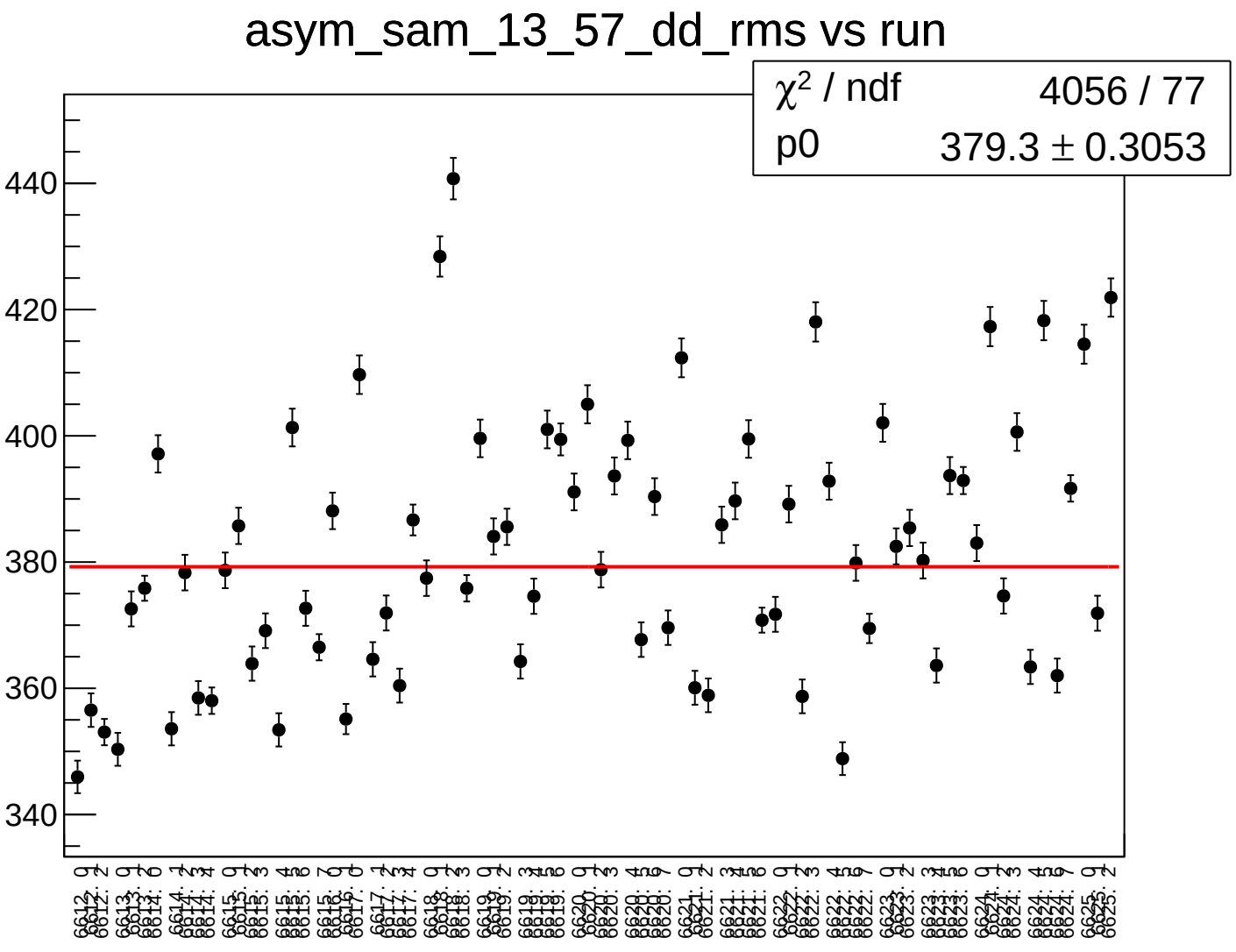

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 73.9 / 77
p0 158 ± 426.3
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 202.5
Std Dev 157.4
2
1
0
−1
−2

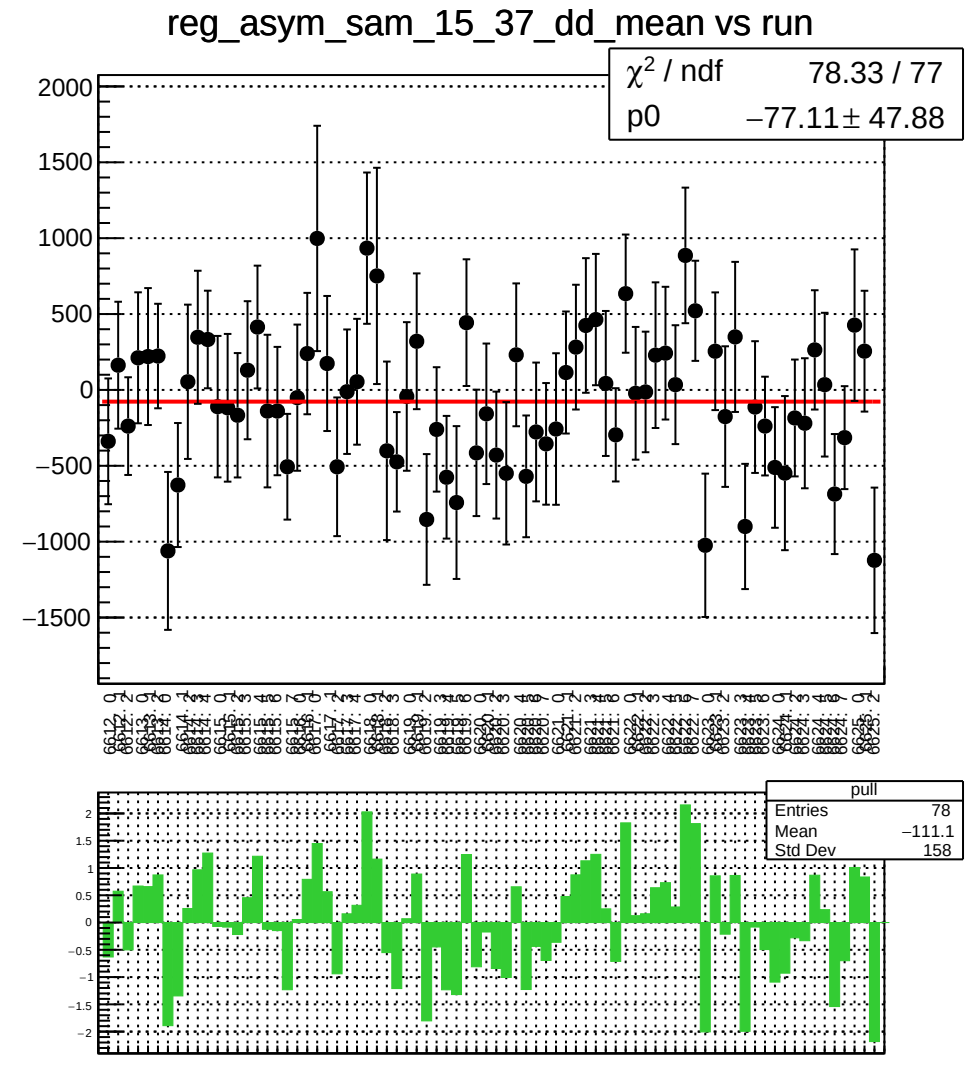

pull1D
Entries 78
Mean 0.006208
Std Dev 0.9734
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

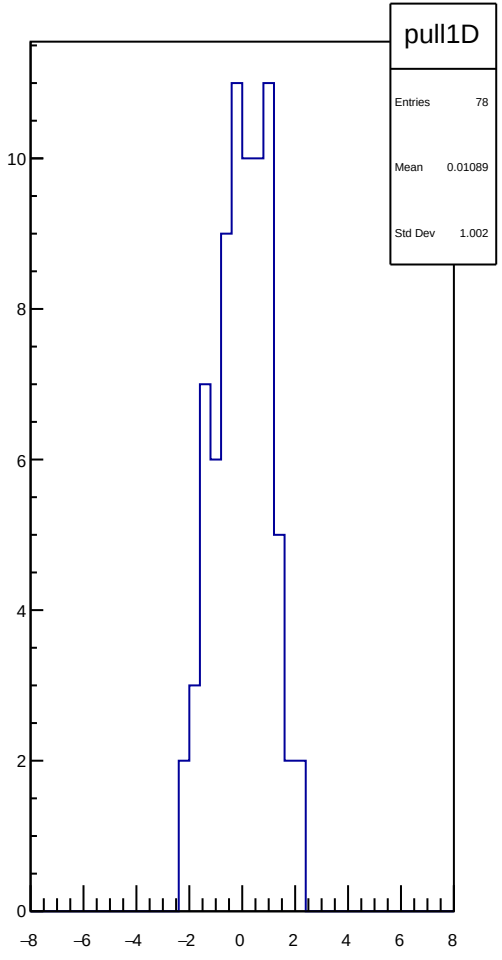

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 4075 / 77
p0 374.5 ± 0.3014
440
420
400
380
360
340

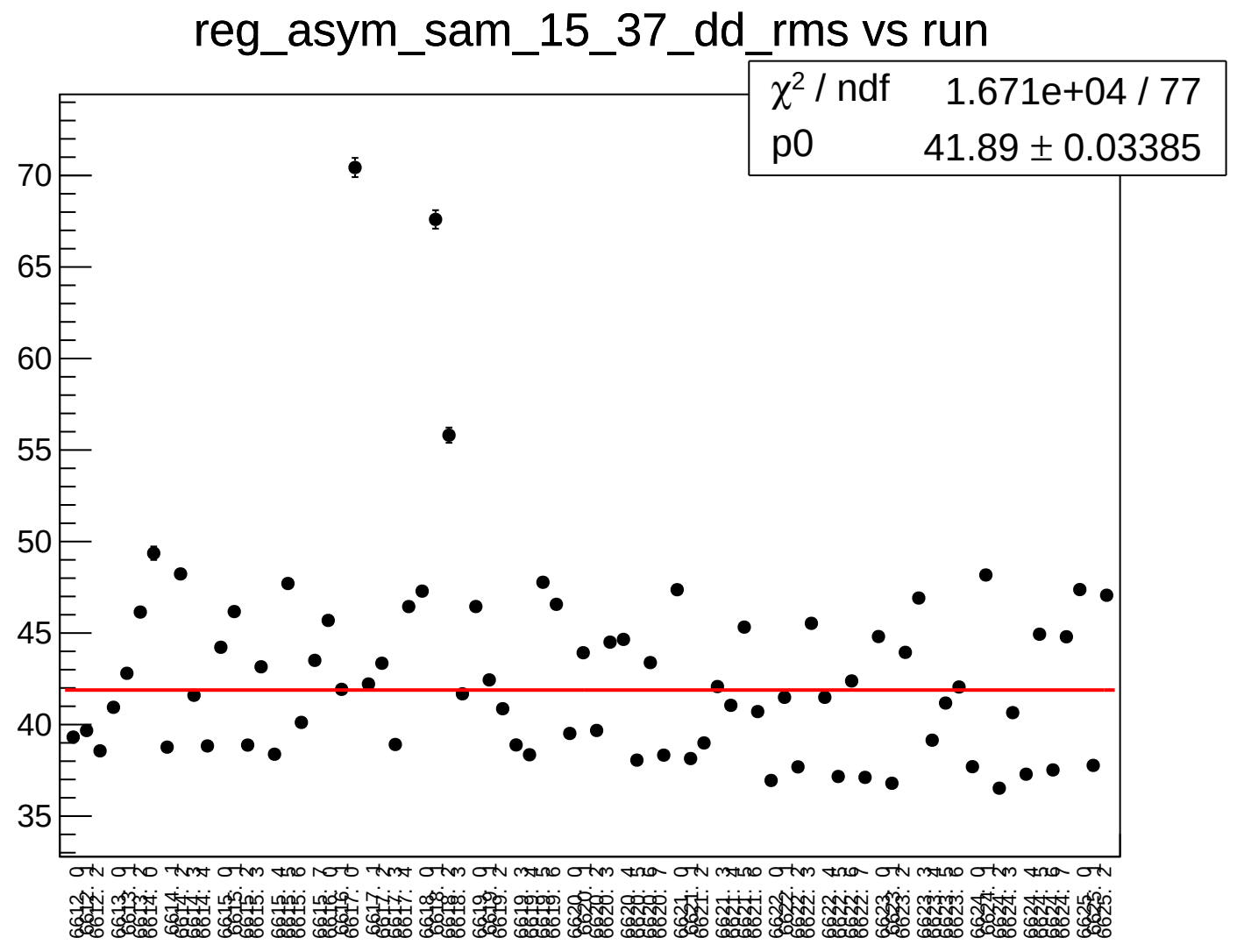

asym_sam_13_57_dd_mean vs run
χ² / ndf 76.77 / 77
p0 −171 ± 431.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 132.4
Std Dev 87.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

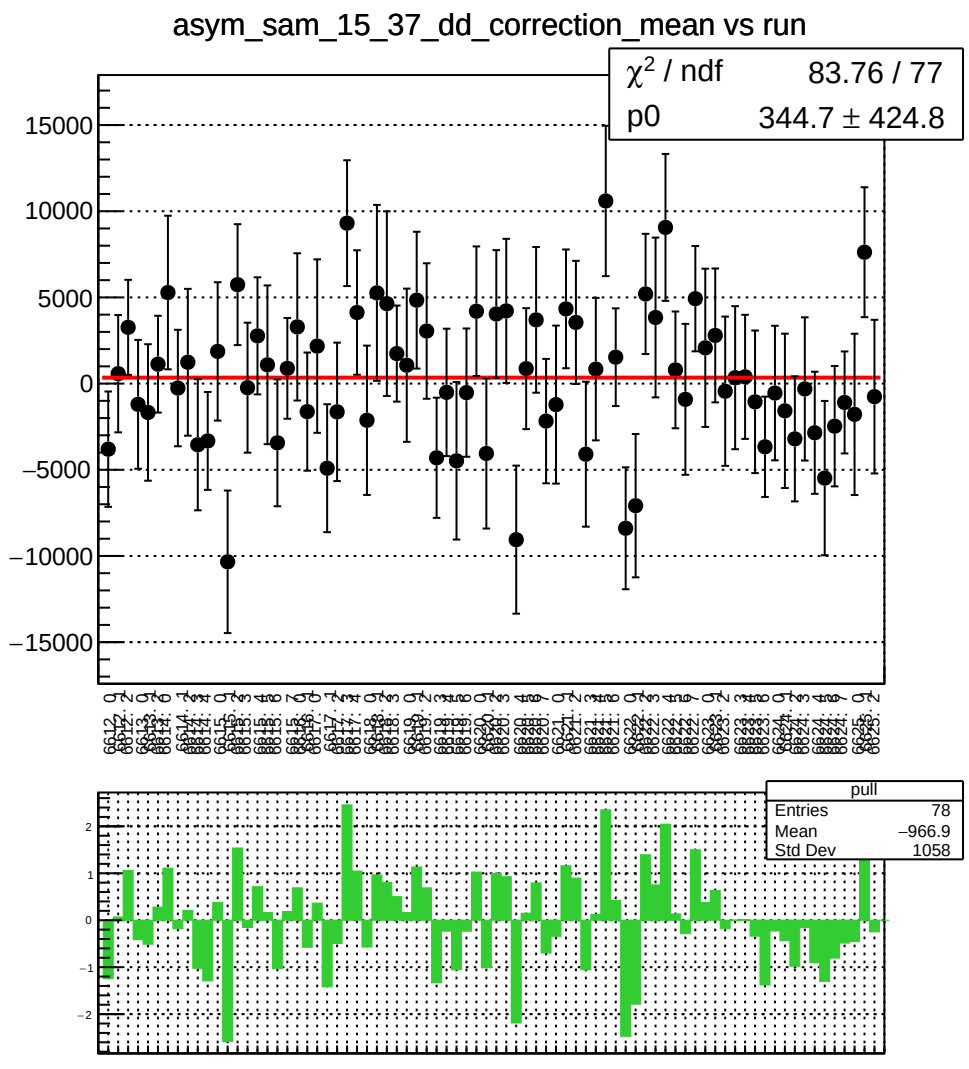

pull1D
Entries 78
Mean −0.00817
Std Dev 0.9921
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

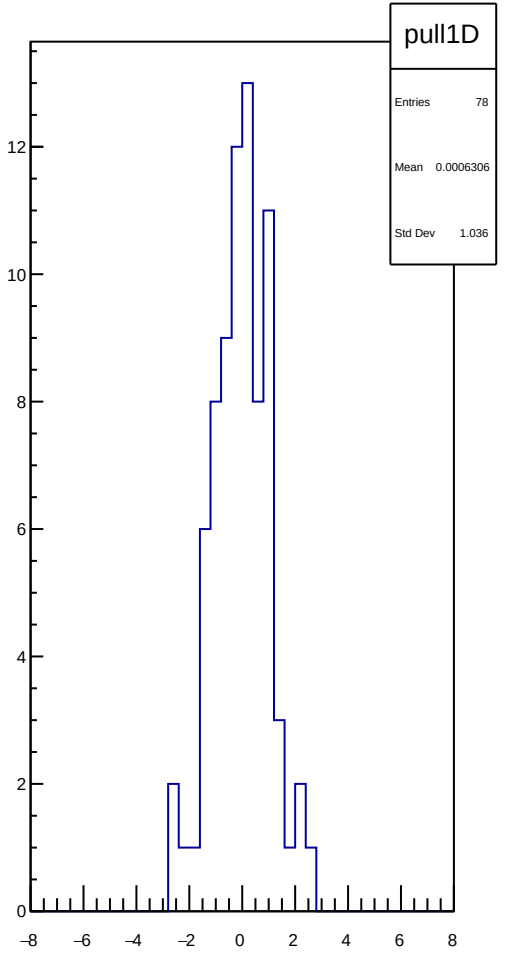

asym_sam_13_57_dd_rms vs run
χ² / ndf 4056 / 77
p0 379.3 ± 0.3053
440
420
400
380
360
340

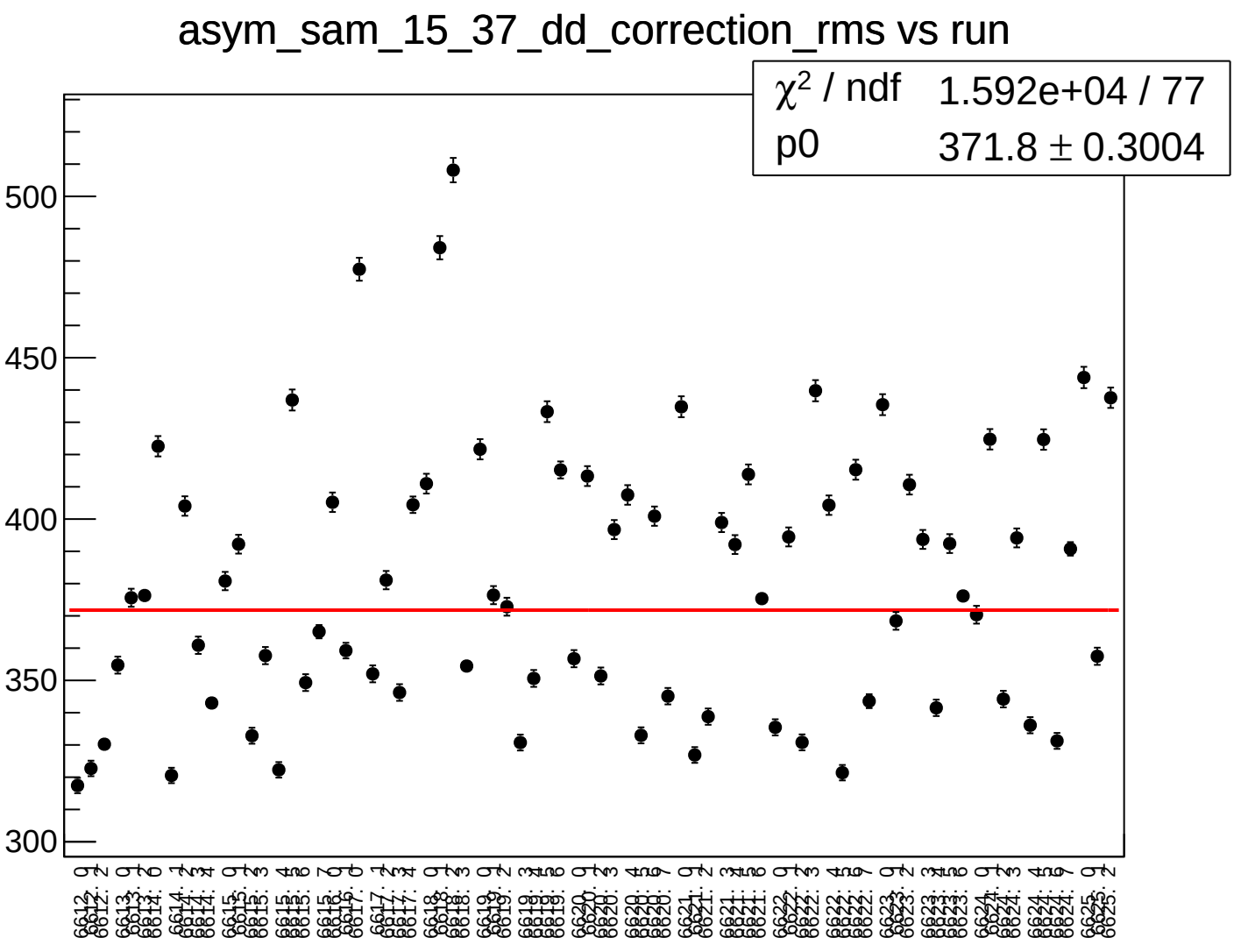

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 78.33 / 77
p0 −77.11 ± 47.88
pull
Entries 78
Mean −111.1
Std Dev 158

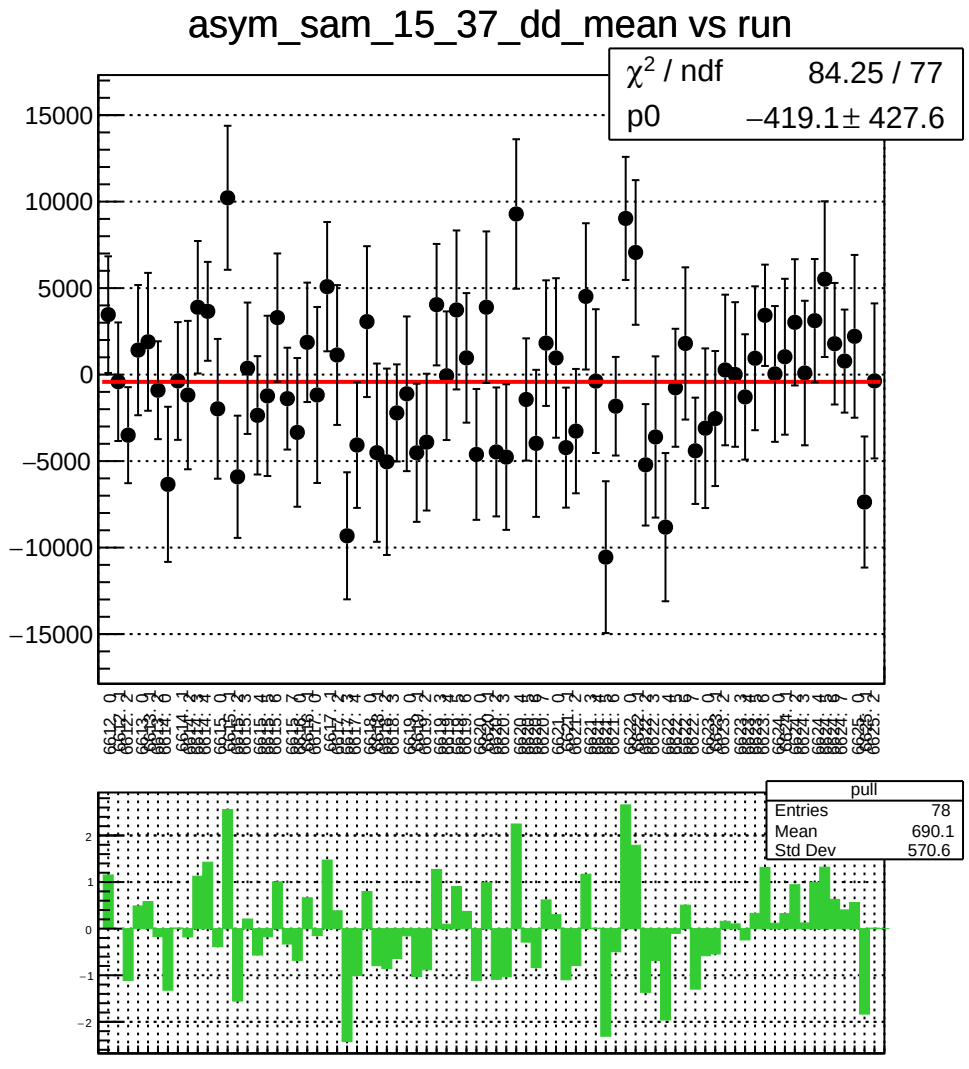

pull1D
Entries 78
Mean 0.01089
Std Dev 1.002

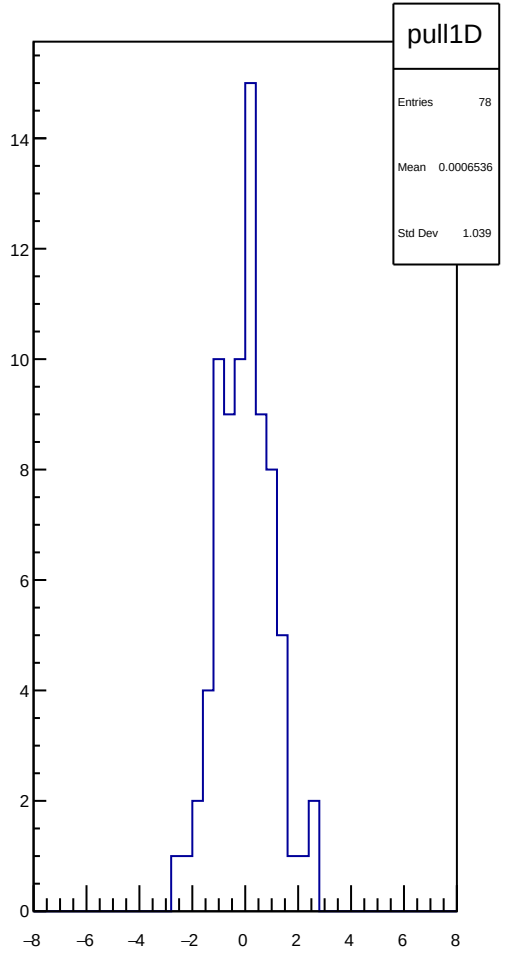

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.671e+04 / 77
p0 41.89 ± 0.03385
70
65
60
55
50
45
40
35

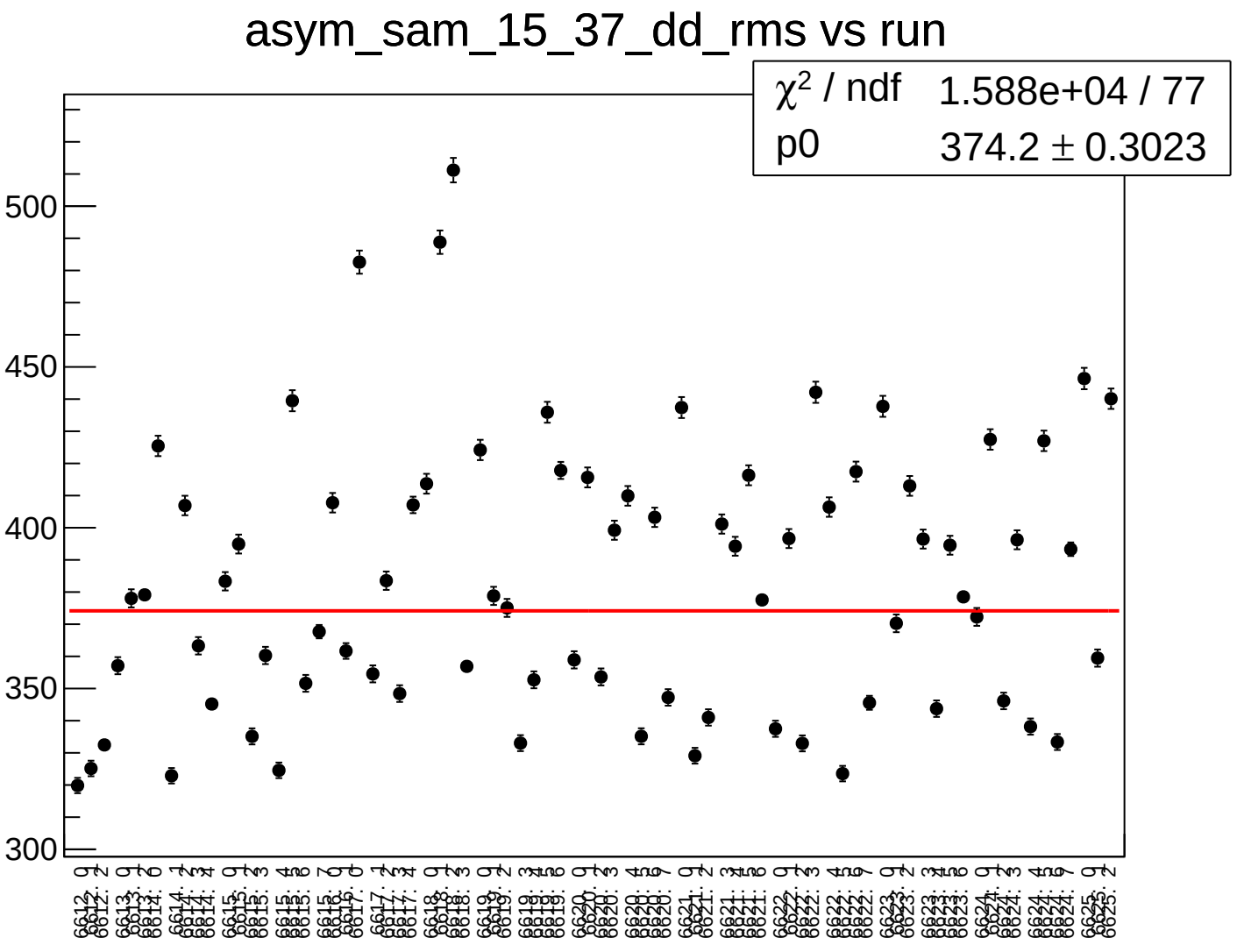

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 83.76 / 77
p0 344.7 ± 424.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean −966.9
Std Dev 1058
2
1
0
−1
−2

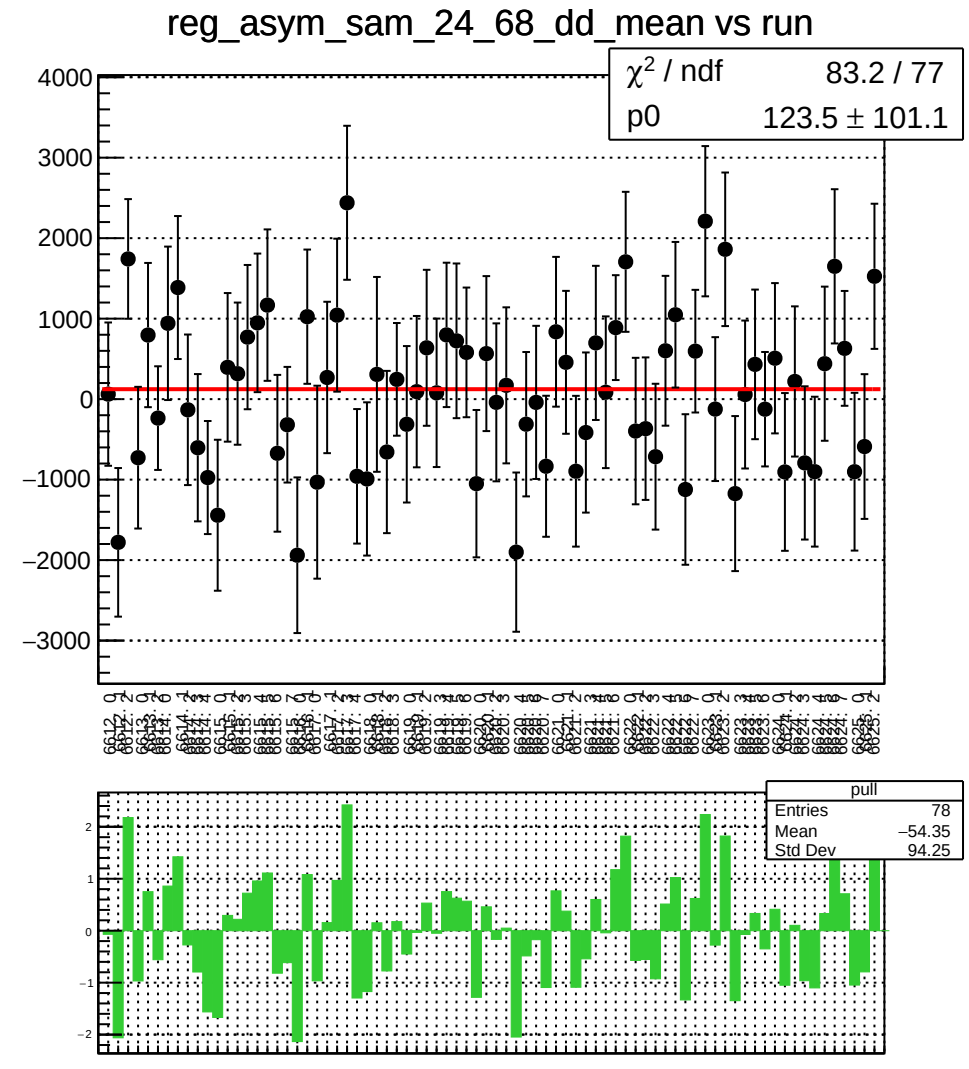

pull1D
Entries 78
Mean 0.0006306
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

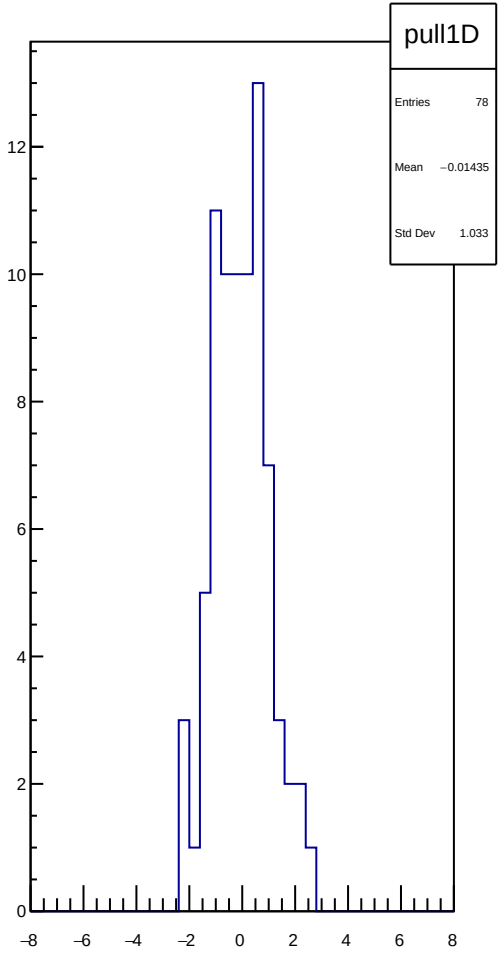

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1.592e+04 / 77
p0 371.8 ± 0.3004
500
450
400
350
300

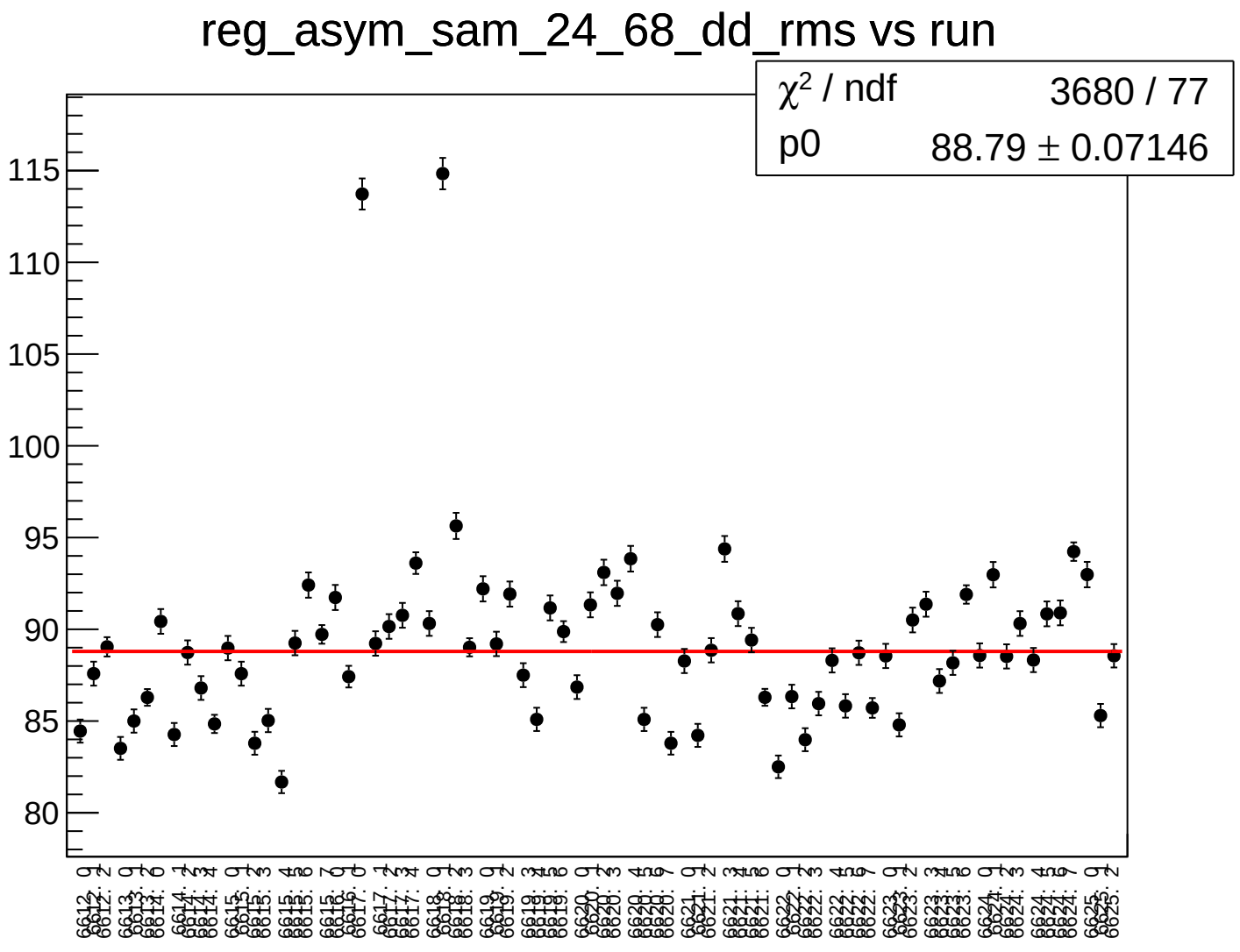

asym_sam_15_37_dd_mean vs run
χ² / ndf 84.25 / 77
p0 −419.1± 427.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 690.1
Std Dev 570.6
2
1
0
−1
−2

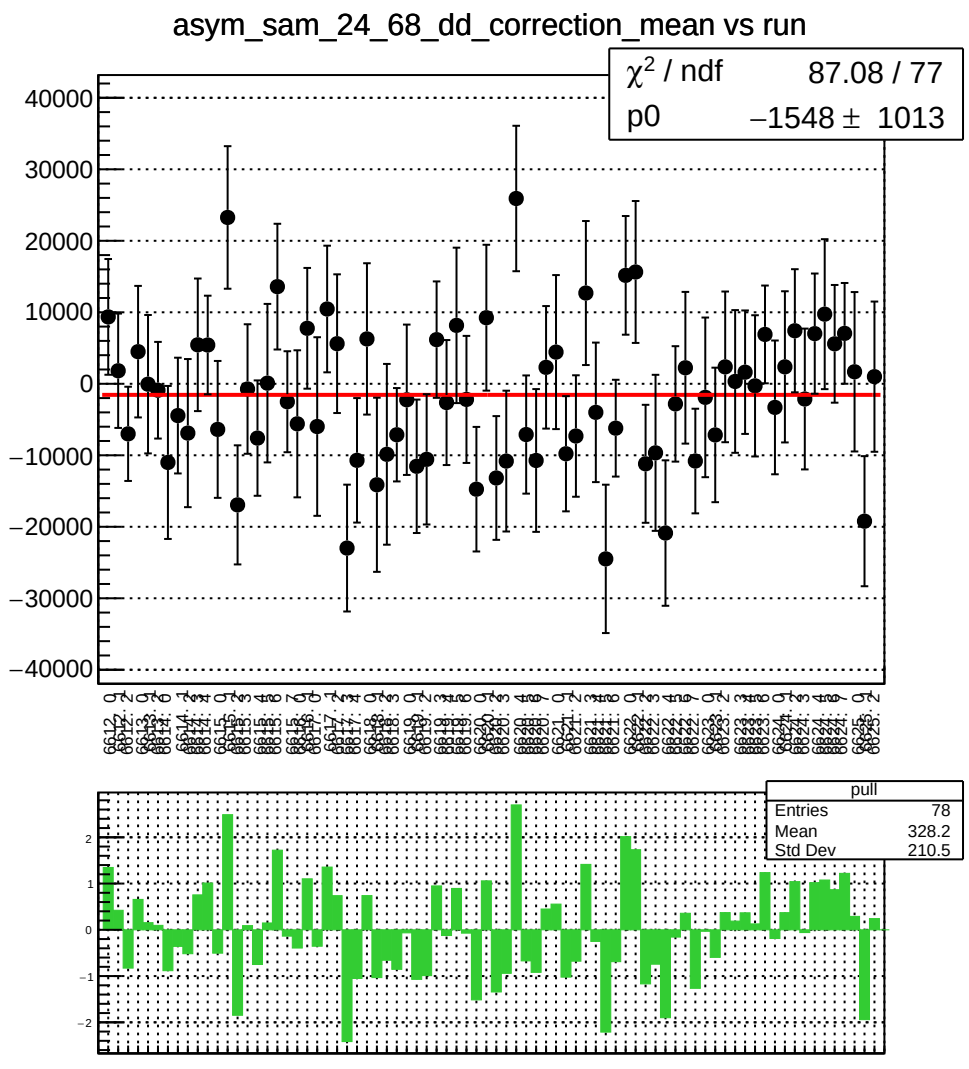

pull1D
Entries 78
Mean 0.0006536
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

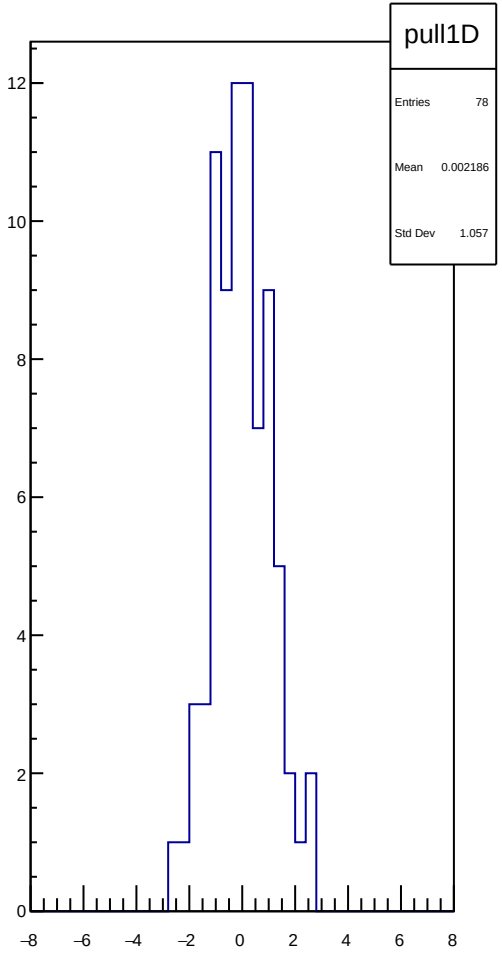

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.588e+04 / 77
p0 374.2 ± 0.3023
500
450
400
350
300

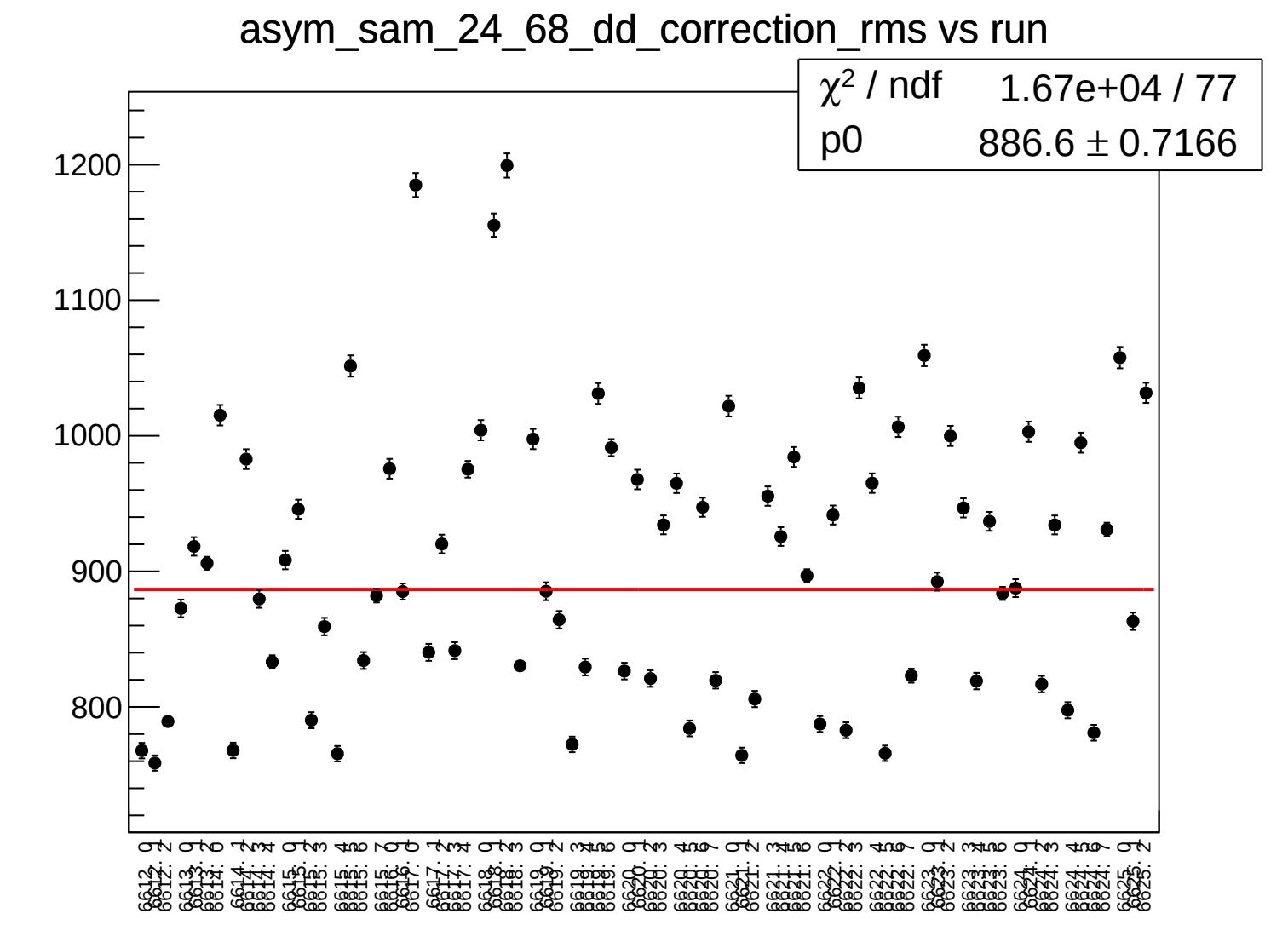

reg_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 83.2 / 77
p0 123.5 ± 101.1
pull
Entries 78
Mean −54.35
Std Dev 94.25

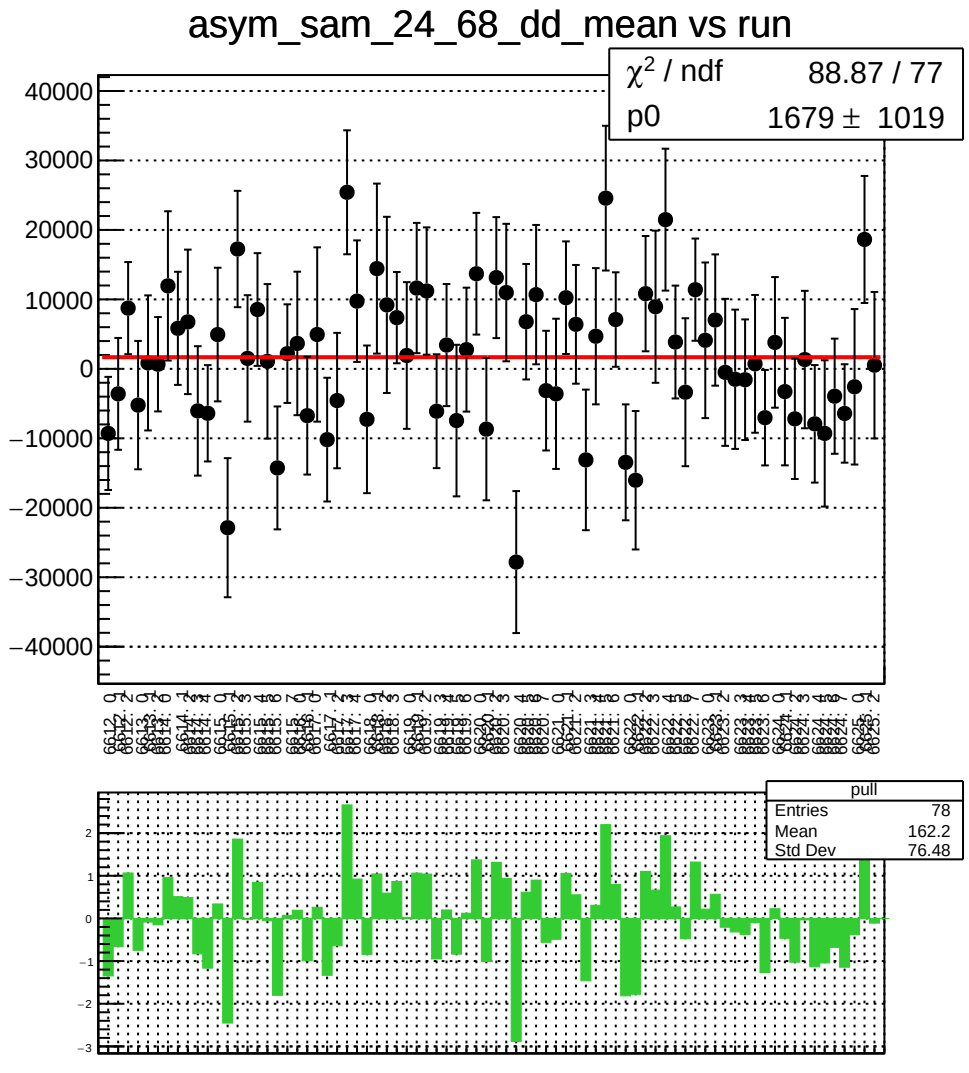

pull1D
Entries 78
Mean −0.01435
Std Dev 1.033

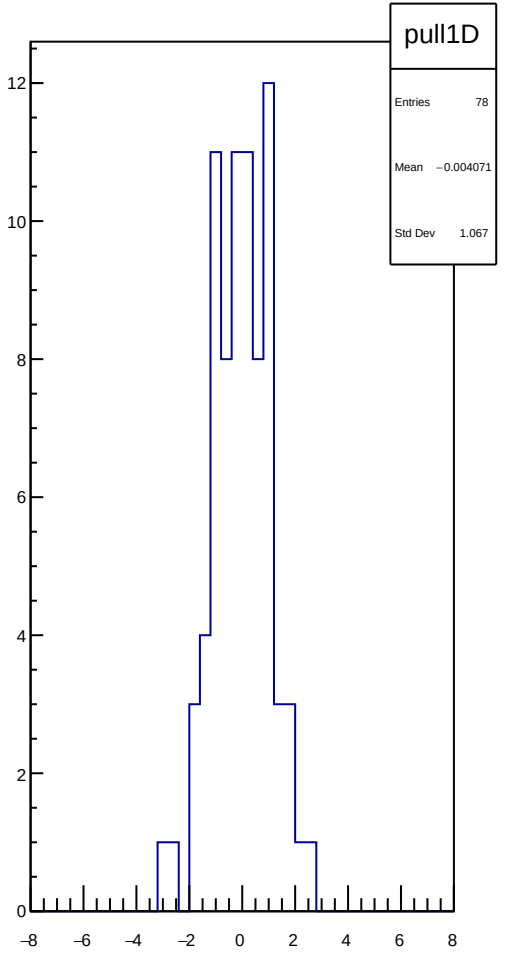

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 3680 / 77
p0 88.79 ± 0.07146
115
110
105
100
95
90
85
80

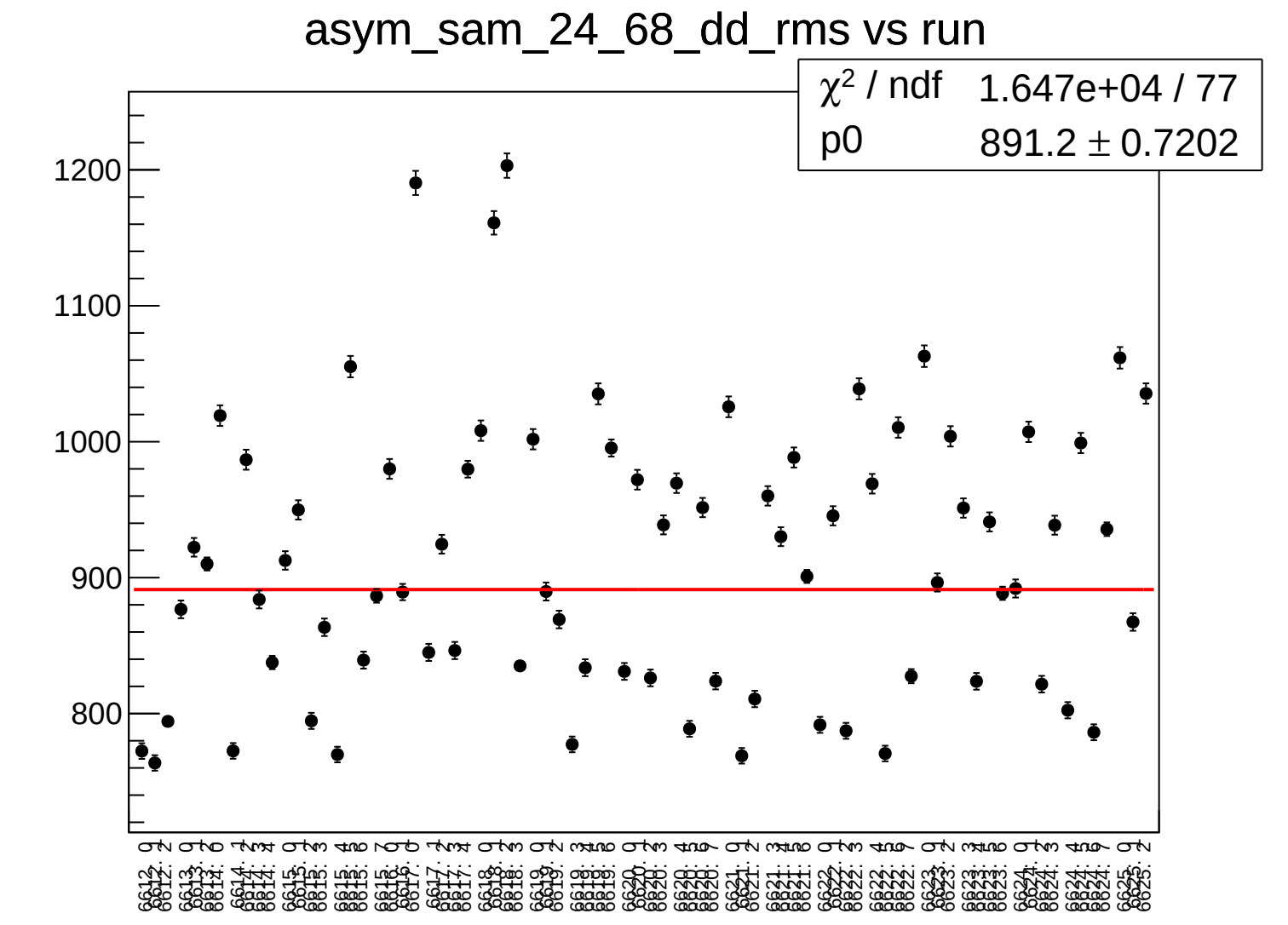

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 87.08 / 77
p0 −1548 ± 1013
pull
Entries 78
Mean 328.2
Std Dev 210.5

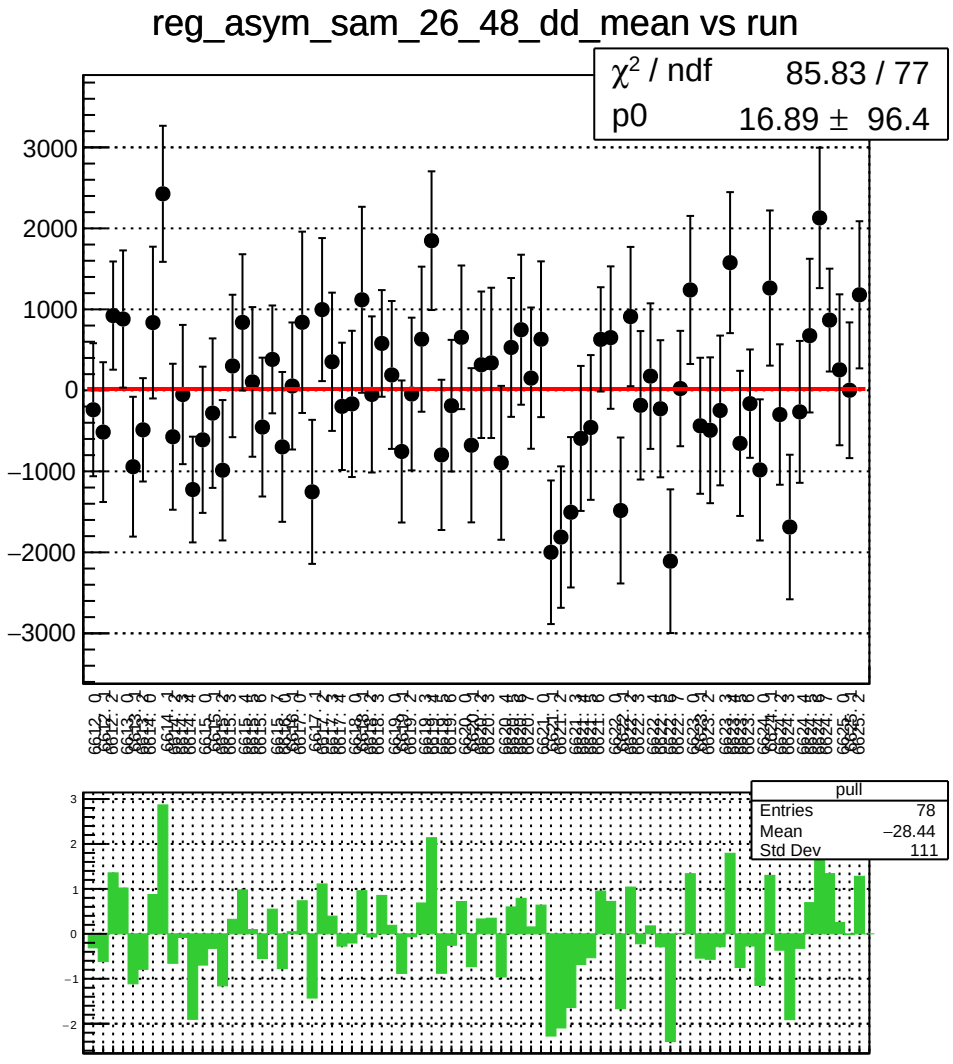

pull1D
Entries 78
Mean 0.002186
Std Dev 1.057

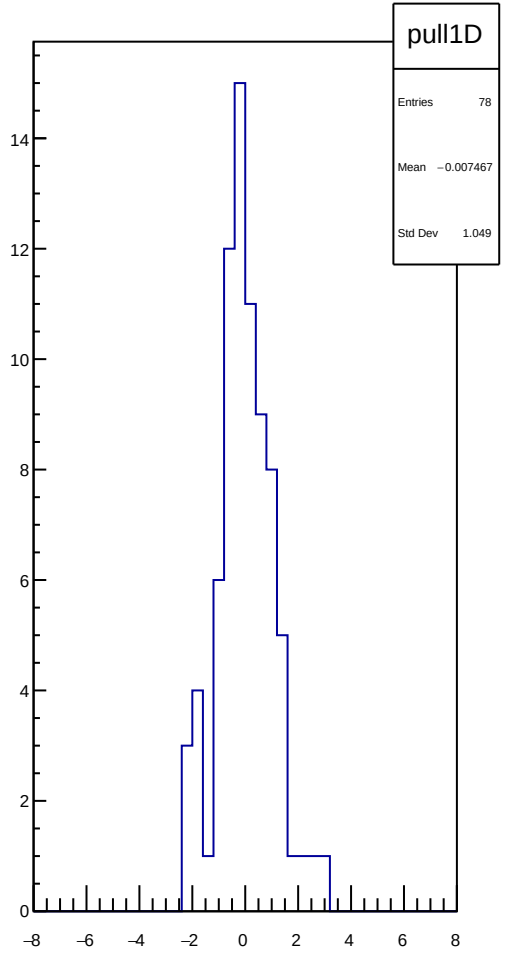

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1.67e+04 / 77
p0 886.6 ± 0.7166
1200
1100
1000
900
800

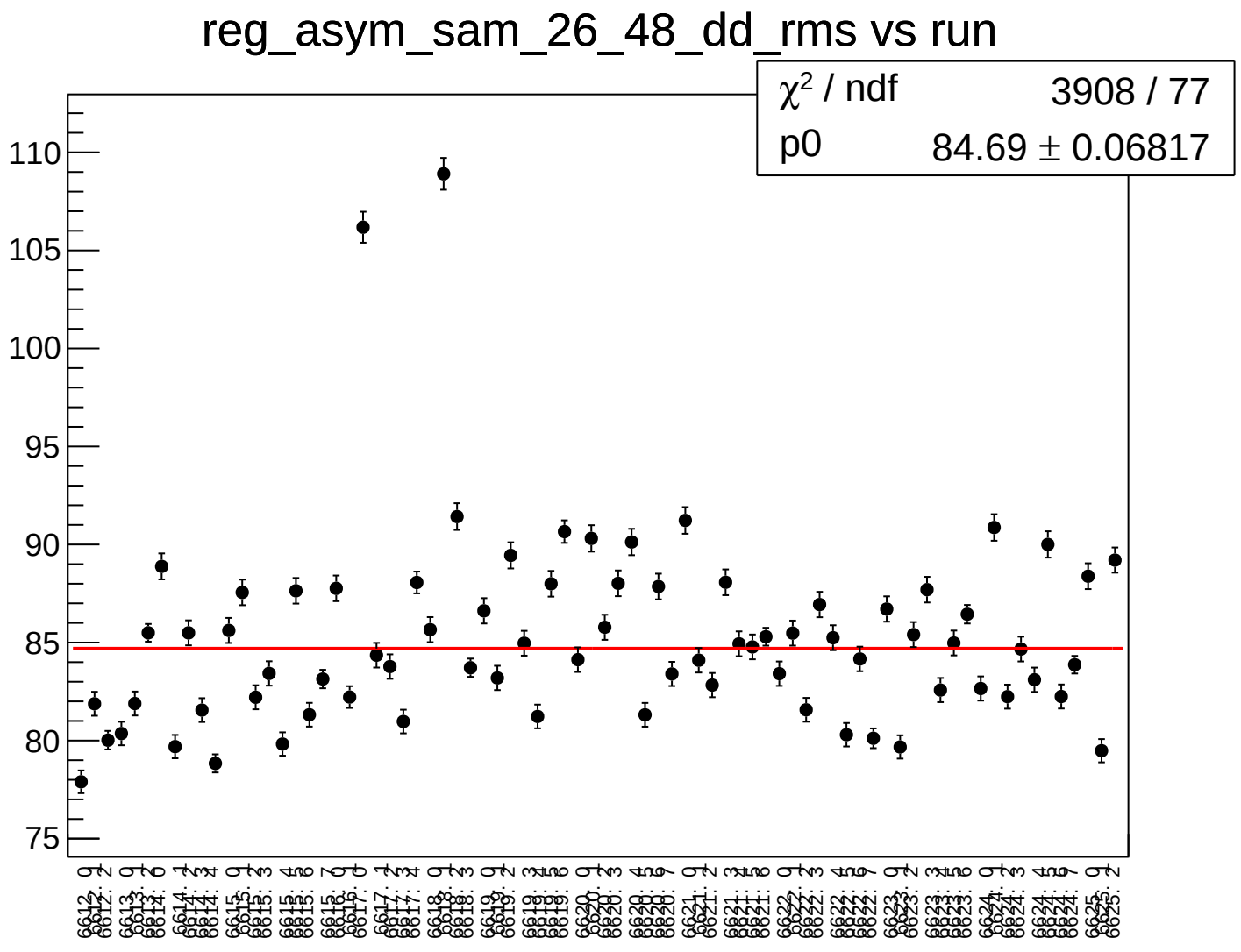

asym_sam_24_68_dd_mean vs run
χ² / ndf 88.87 / 77
p0 1679 ± 1019
pull
Entries 78
Mean 162.2
Std Dev 76.48

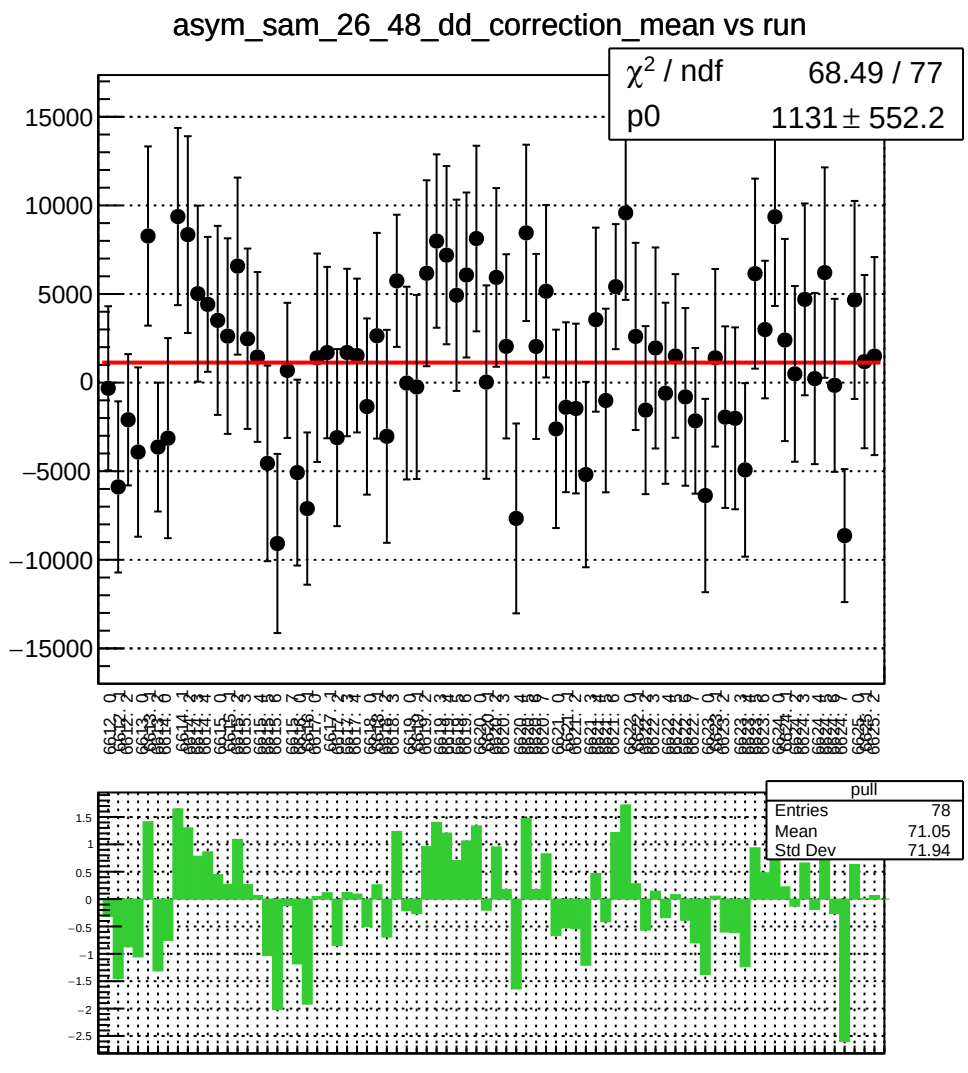

pull1D
Entries 78
Mean −0.004071
Std Dev 1.067

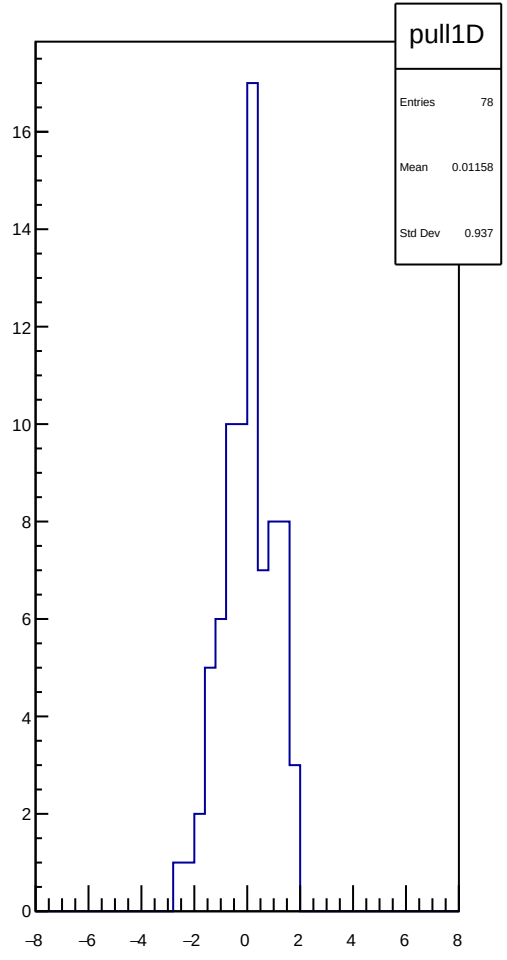

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.647e+04 / 77
p0 891.2 ± 0.7202
1200
1100
1000
900
800

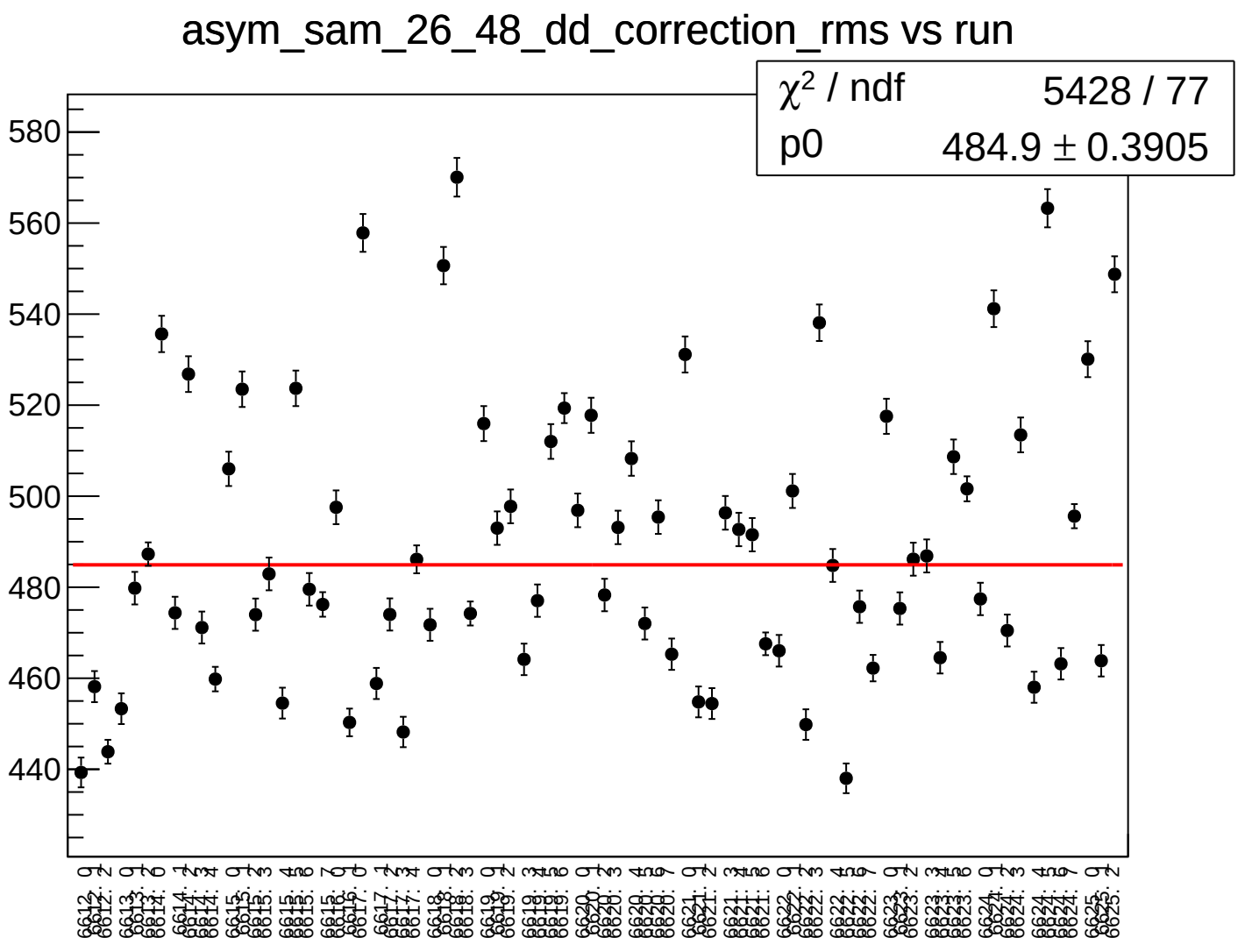

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 85.83 / 77
p0 16.89 ± 96.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 78
Mean −28.44
Std Dev 111
3
2
1
0
−1
−2

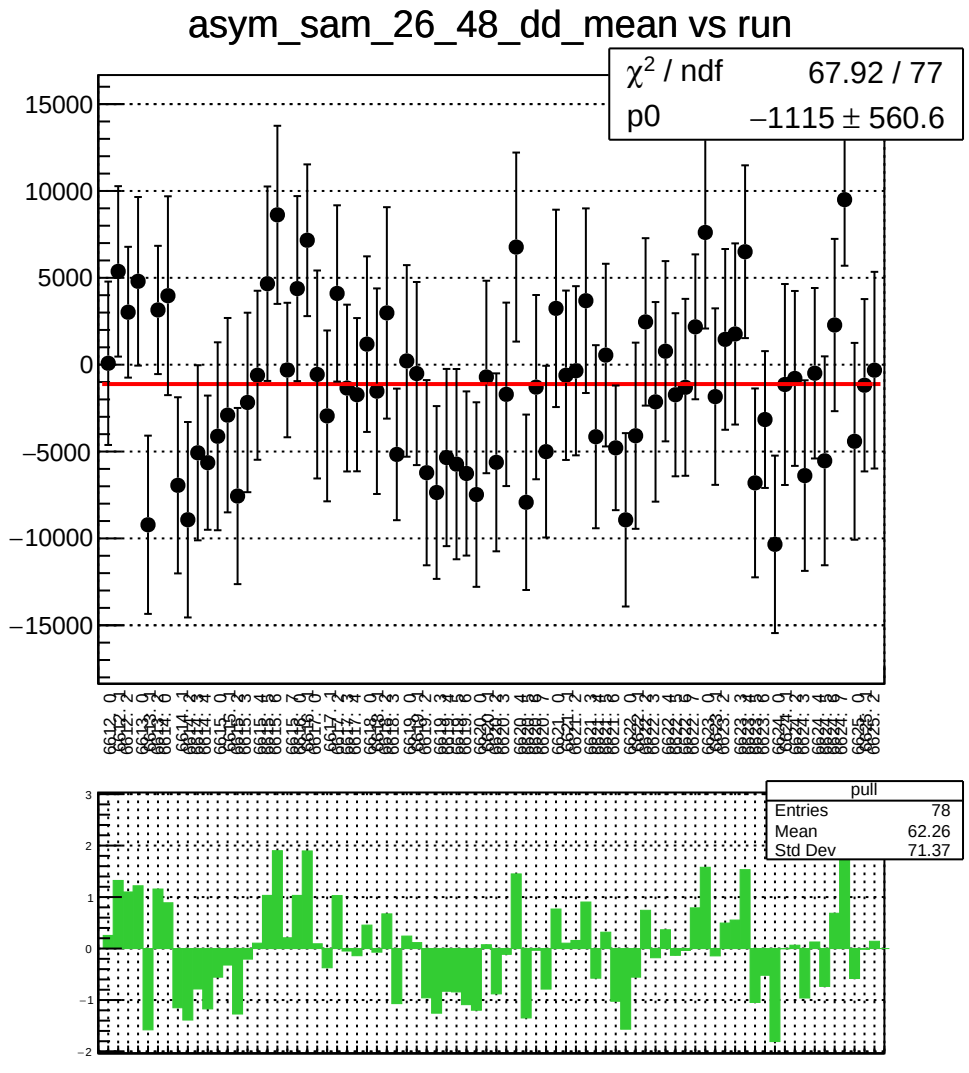

pull1D
Entries 78
Mean −0.007467
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

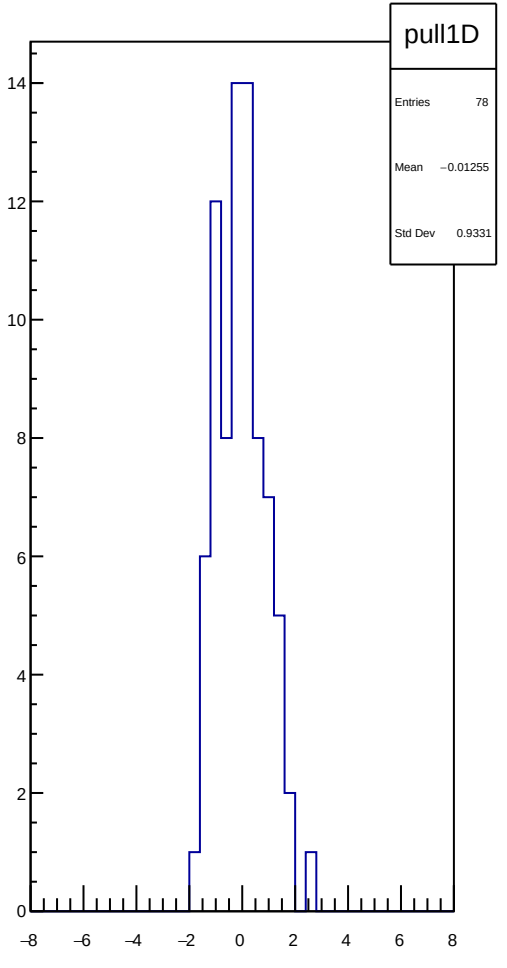

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 3908 / 77
p0 84.69 ± 0.06817
110
105
100
95
90
85
80
75

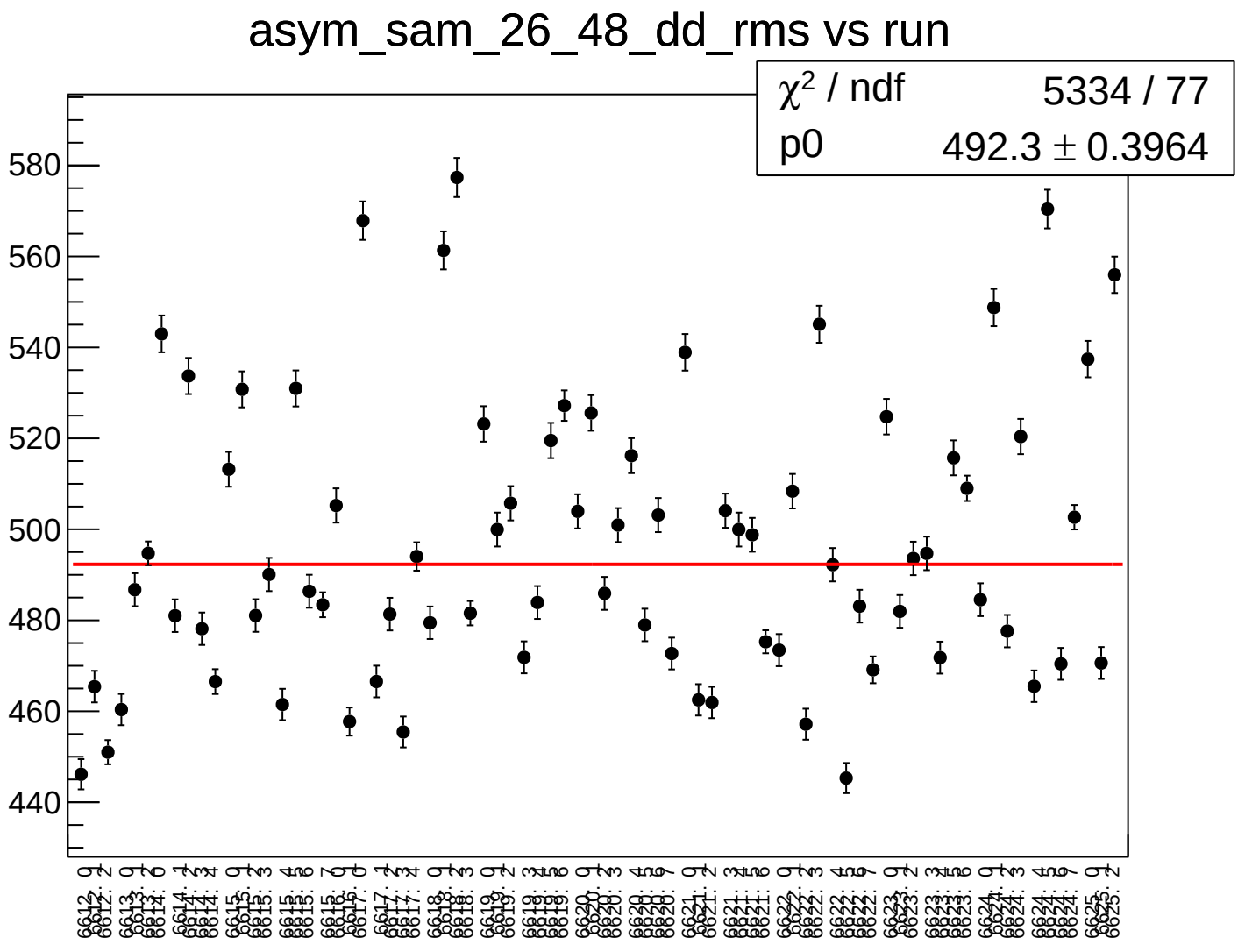

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 68.49 / 77
p0 1131 ± 552.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 71.05
Std Dev 71.94
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

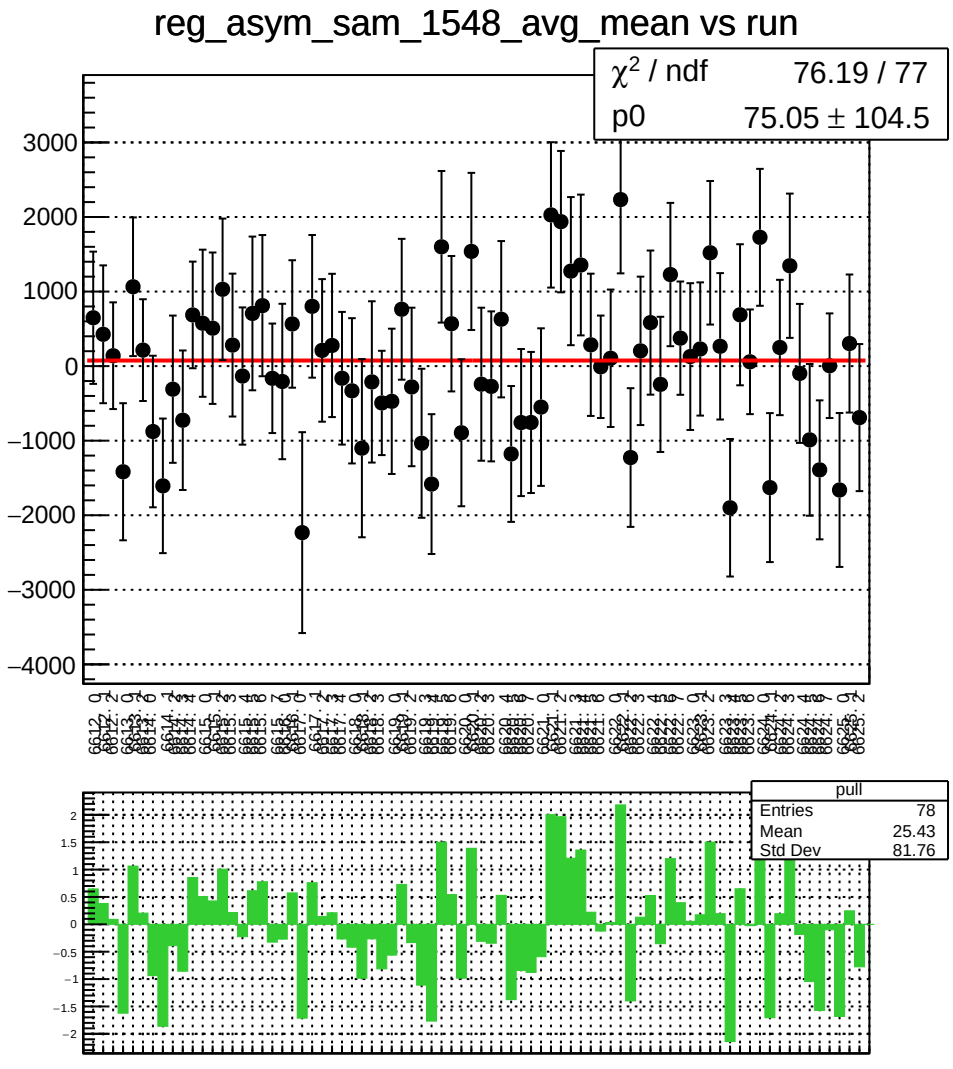

pull1D
Entries 78
Mean 0.01158
Std Dev 0.937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

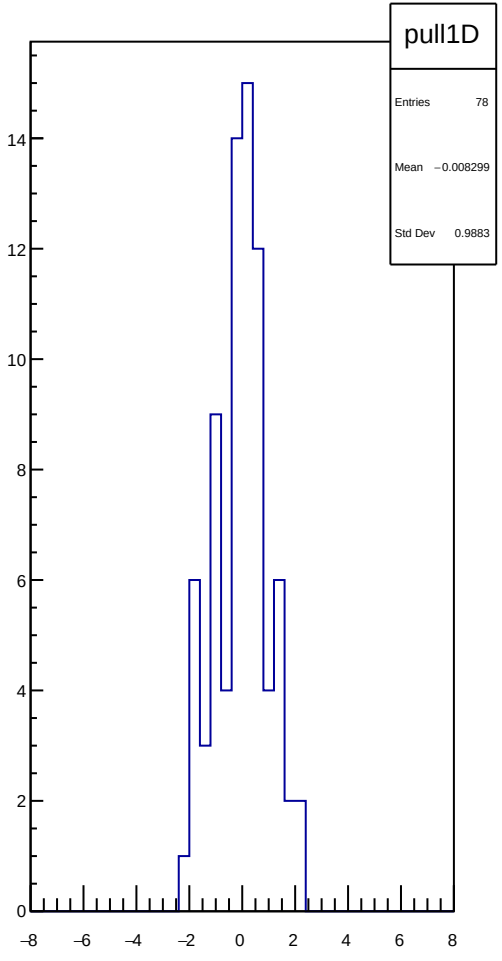

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 5428 / 77
p0 484.9 ± 0.3905
580
560
540
520
500
480
460
440

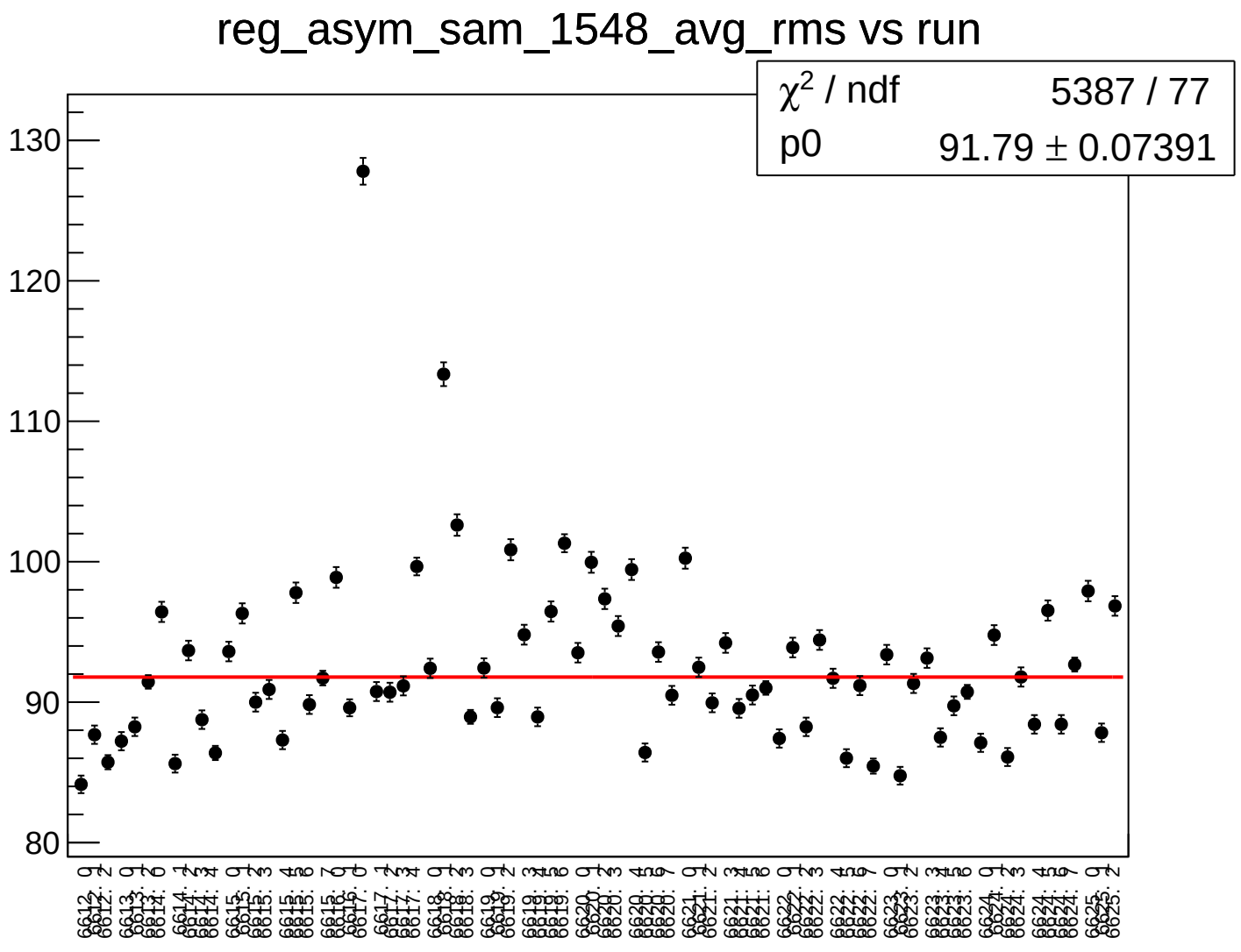

asym_sam_26_48_dd_mean vs run
χ² / ndf 67.92 / 77
p0 −1115 ± 560.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 62.26
Std Dev 71.37
3
2
1
0
−1
−2

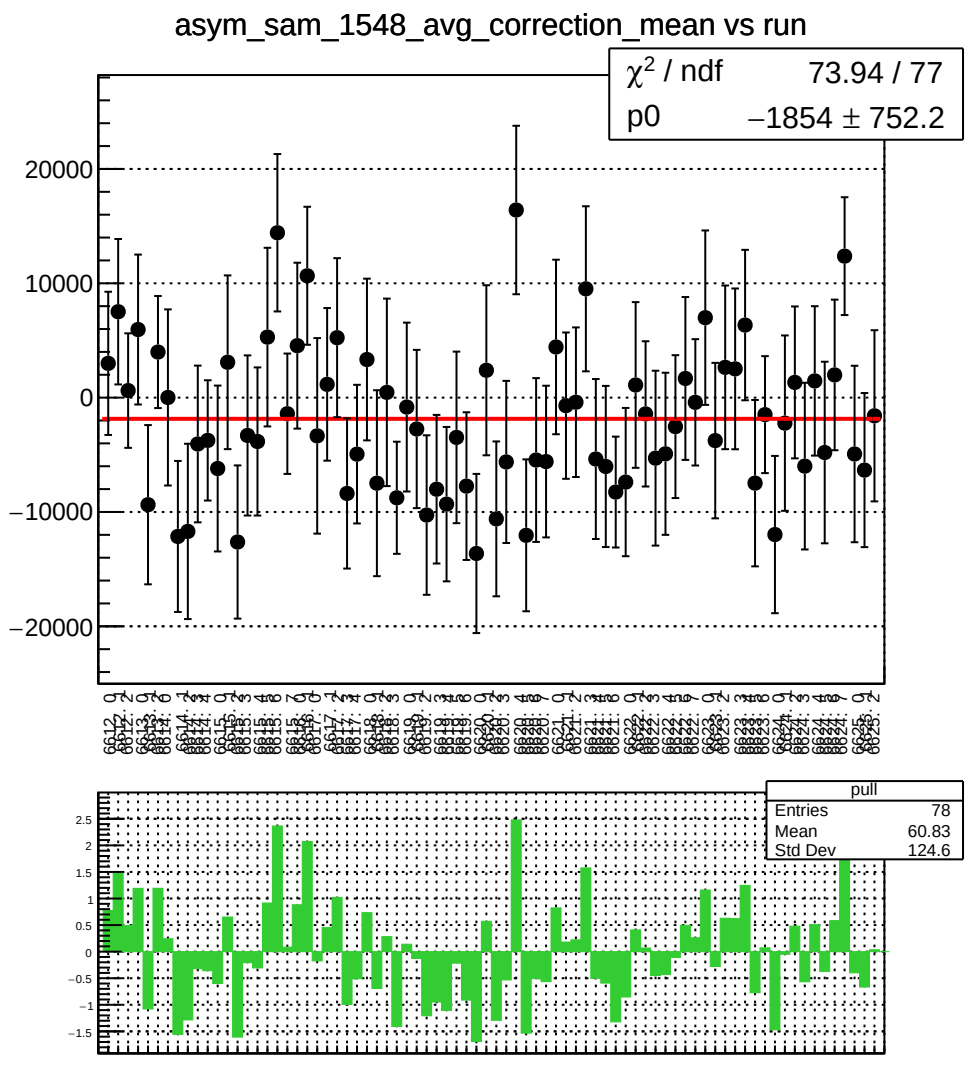

pull1D
Entries 78
Mean −0.01255
Std Dev 0.9331
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

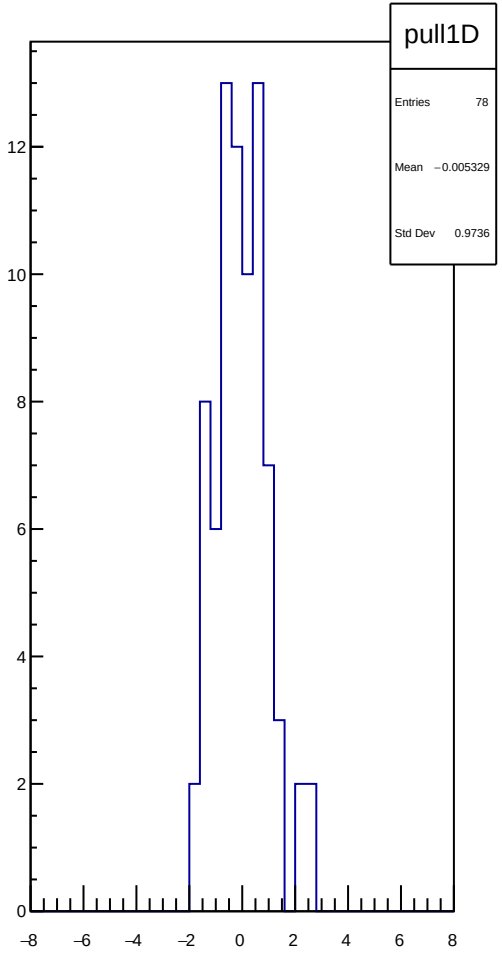

asym_sam_26_48_dd_rms vs run
χ² / ndf 5334 / 77
p0 492.3 ± 0.3964
580
560
540
520
500
480
460
440

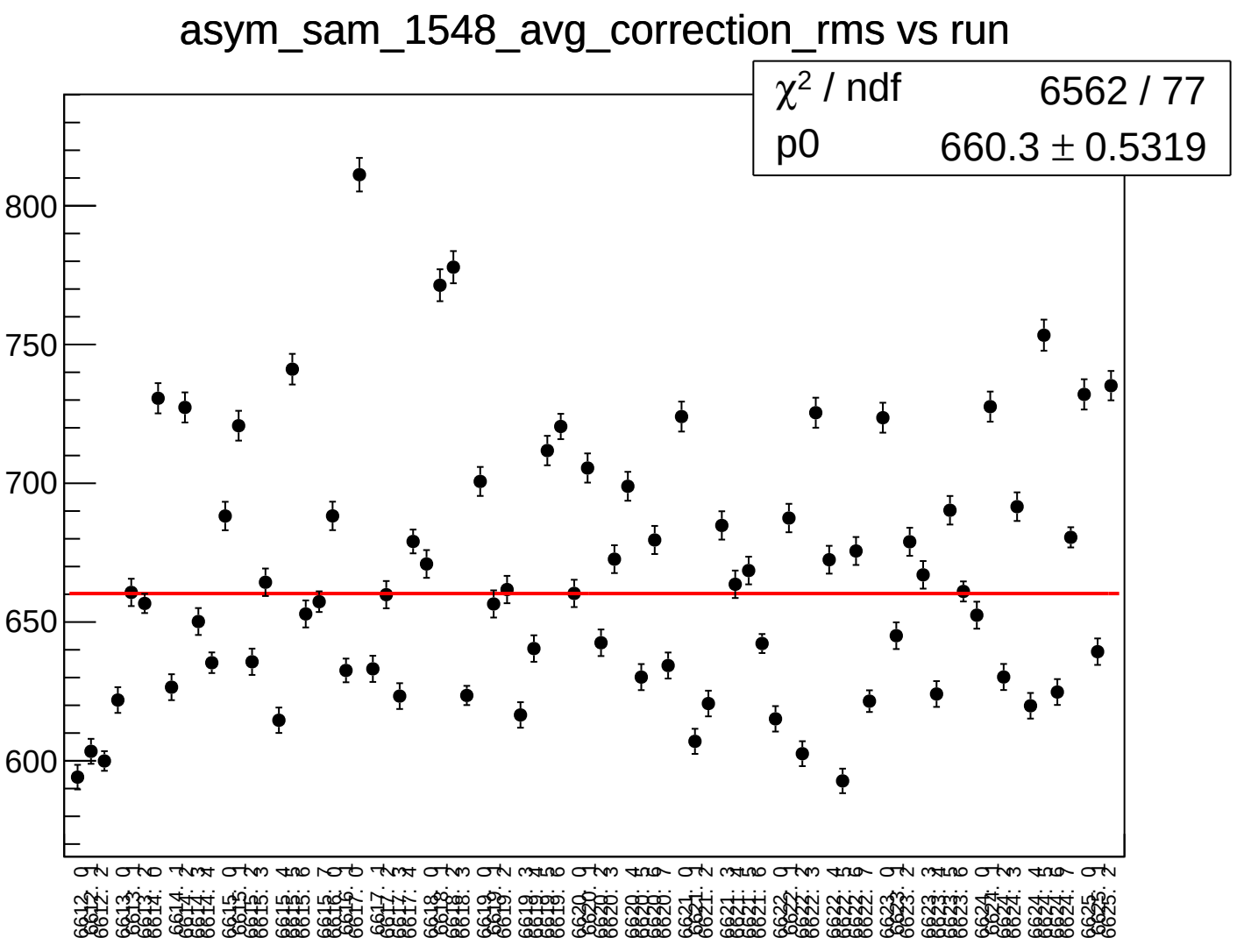

reg_asym_sam_1548_avg_mean vs run
χ^2 / ndf 76.19 / 77
p0 75.05 ± 104.5
pull
Entries 78
Mean 25.43
Std Dev 81.76

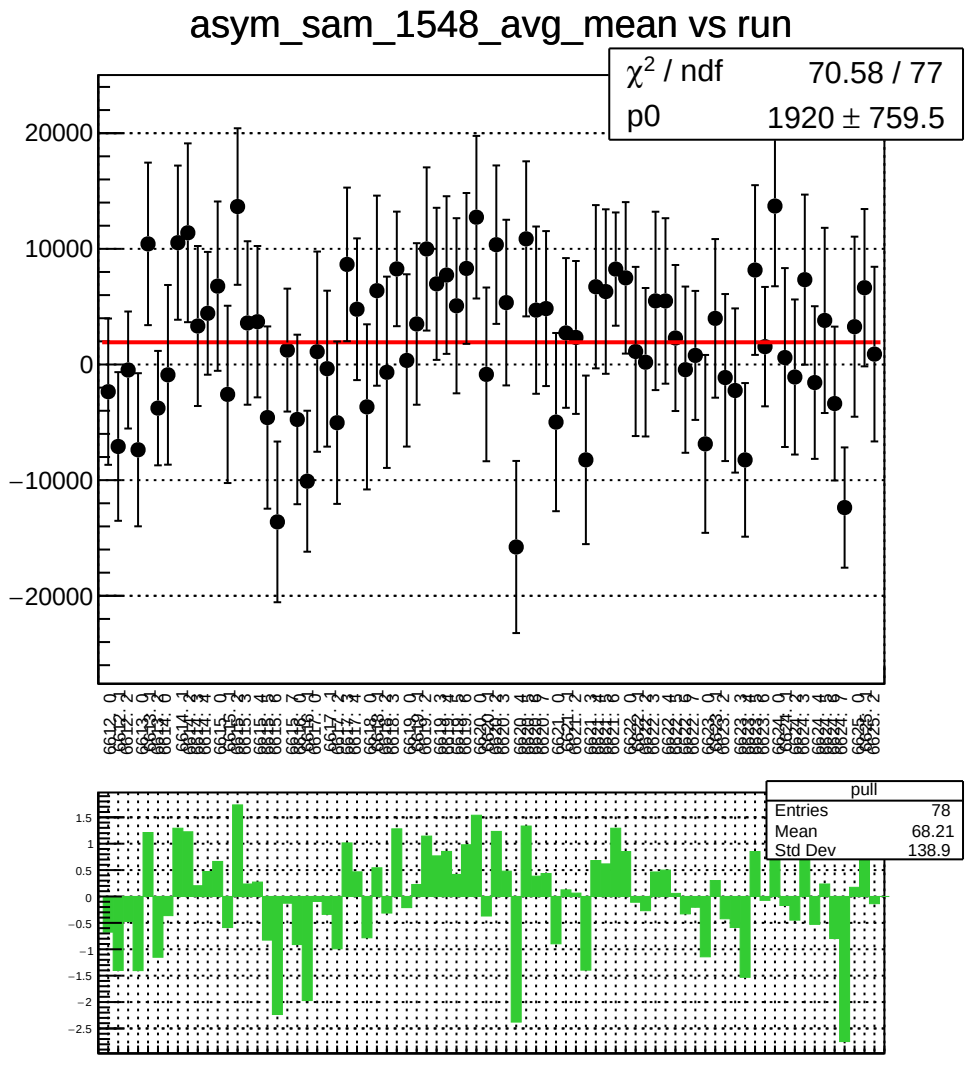

pull1D
Entries 78
Mean −0.008299
Std Dev 0.9883

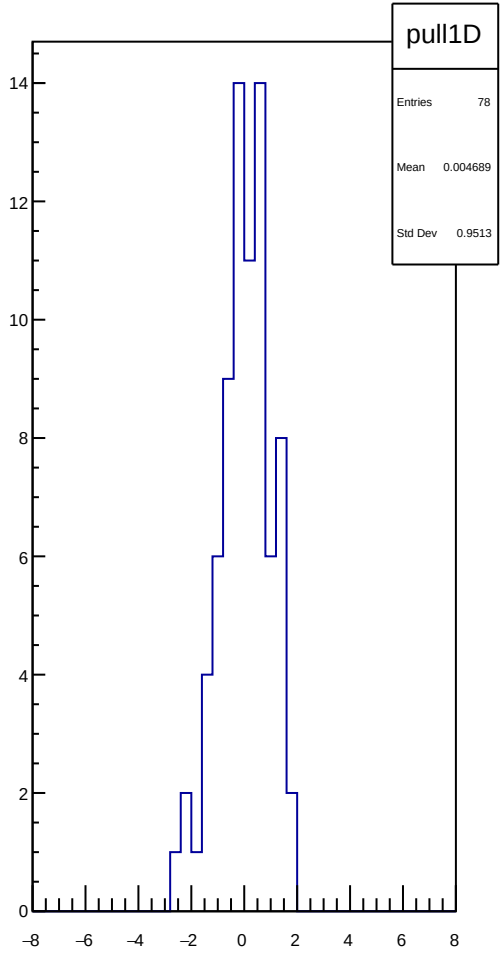

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 5387 / 77
p0 91.79 ± 0.07391
130
120
110
100
90
80

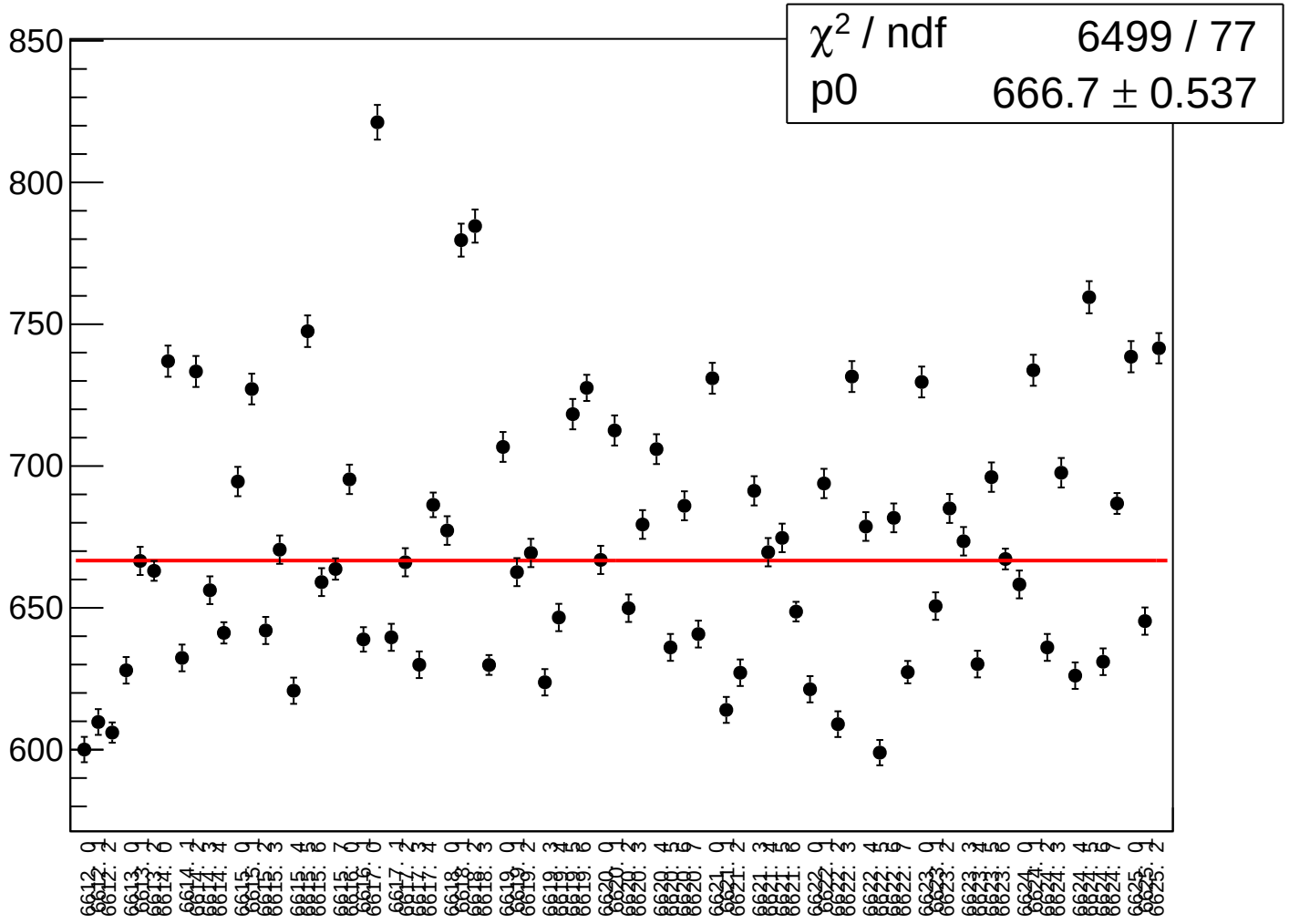

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 73.94 / 77
p0 −1854 ± 752.2
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 60.83
Std Dev 124.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

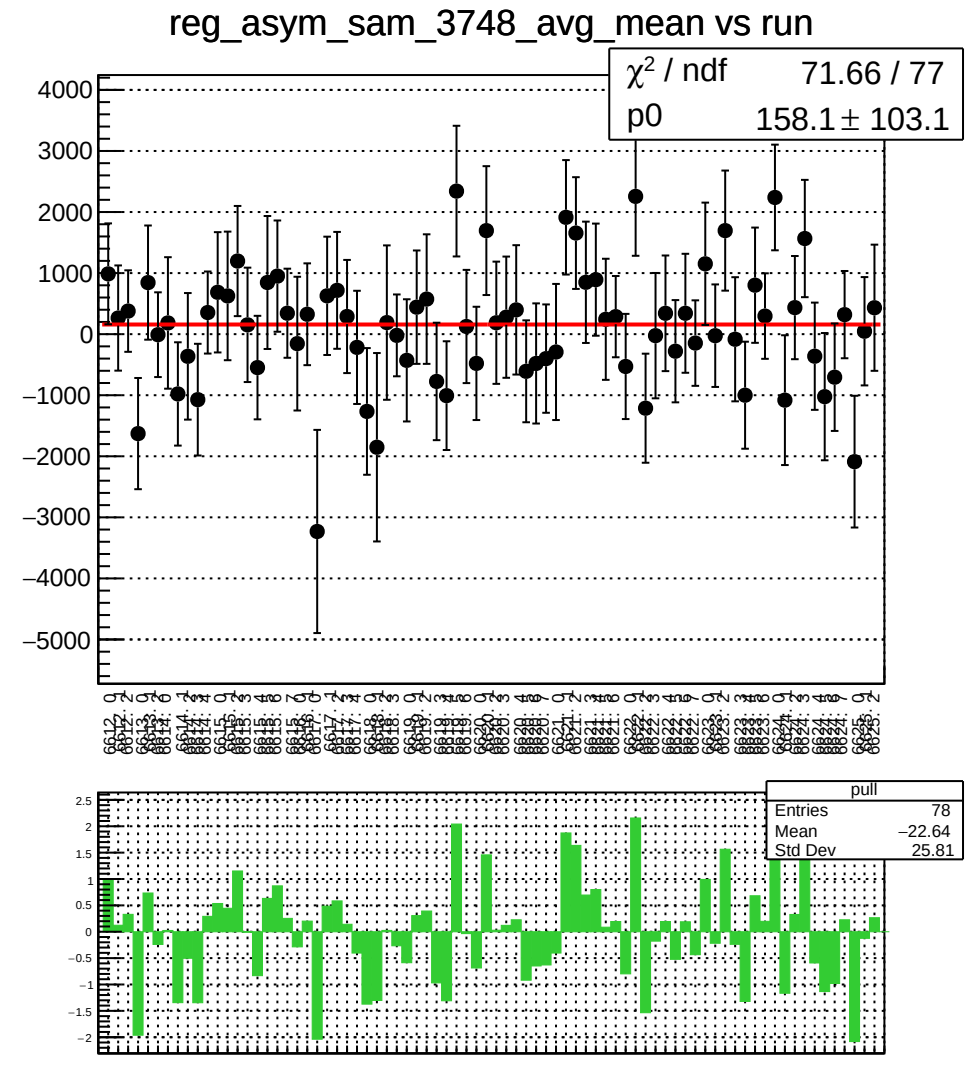

pull1D
Entries 78
Mean −0.005329
Std Dev 0.9736
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

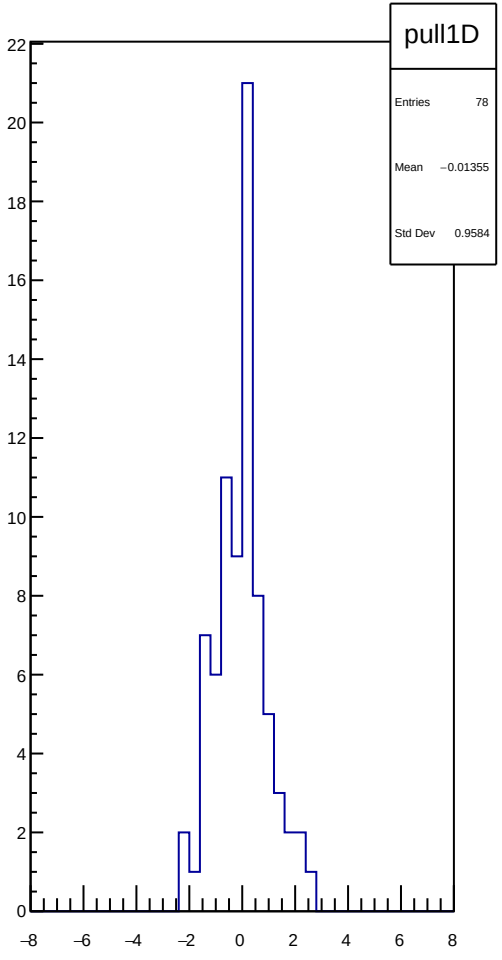

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 6562 / 77
p0 660.3 ± 0.5319
800
750
700
650
600

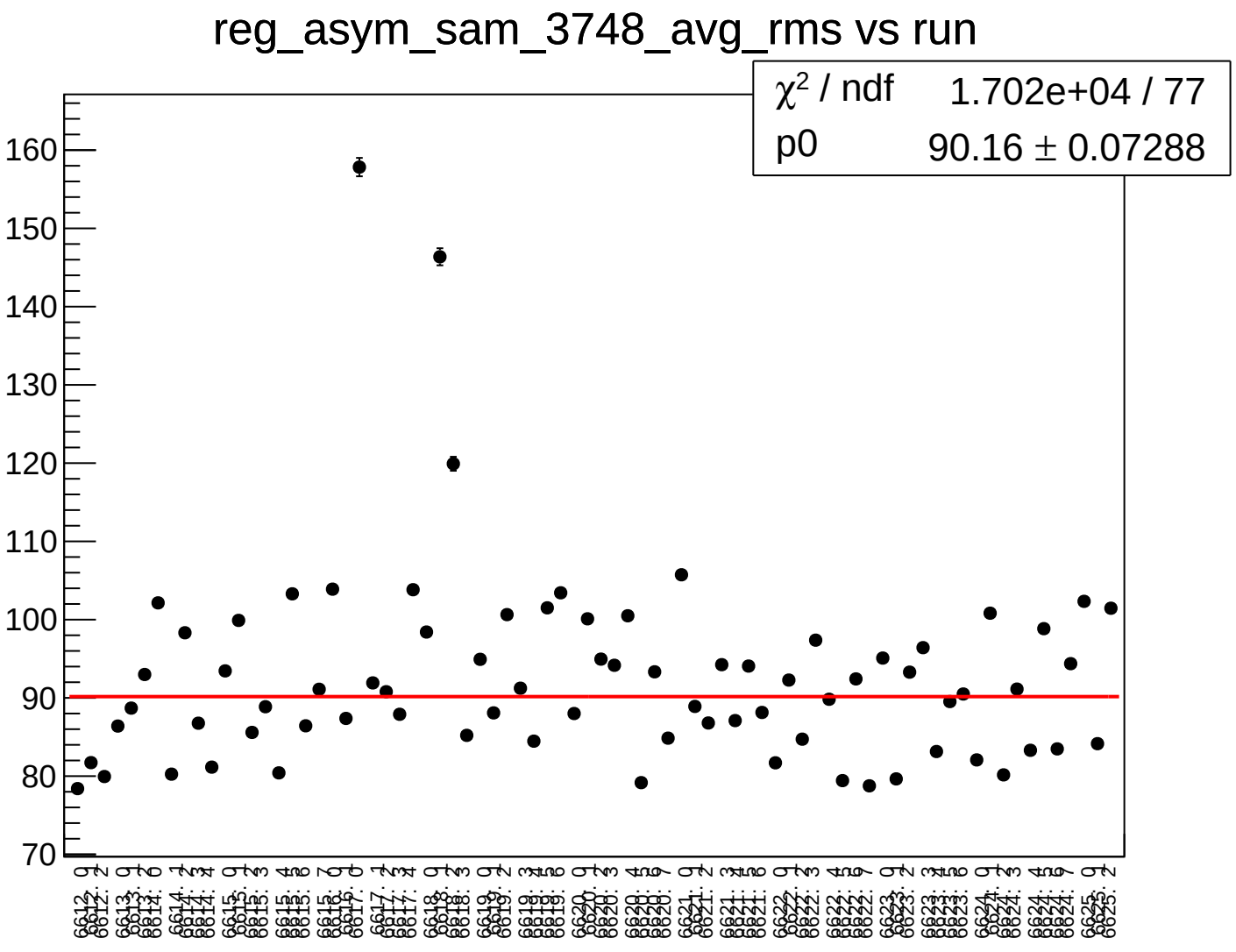

asym_sam_1548_avg_mean vs run
χ² / ndf 70.58 / 77
p0 1920 ± 759.5
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 68.21
Std Dev 138.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

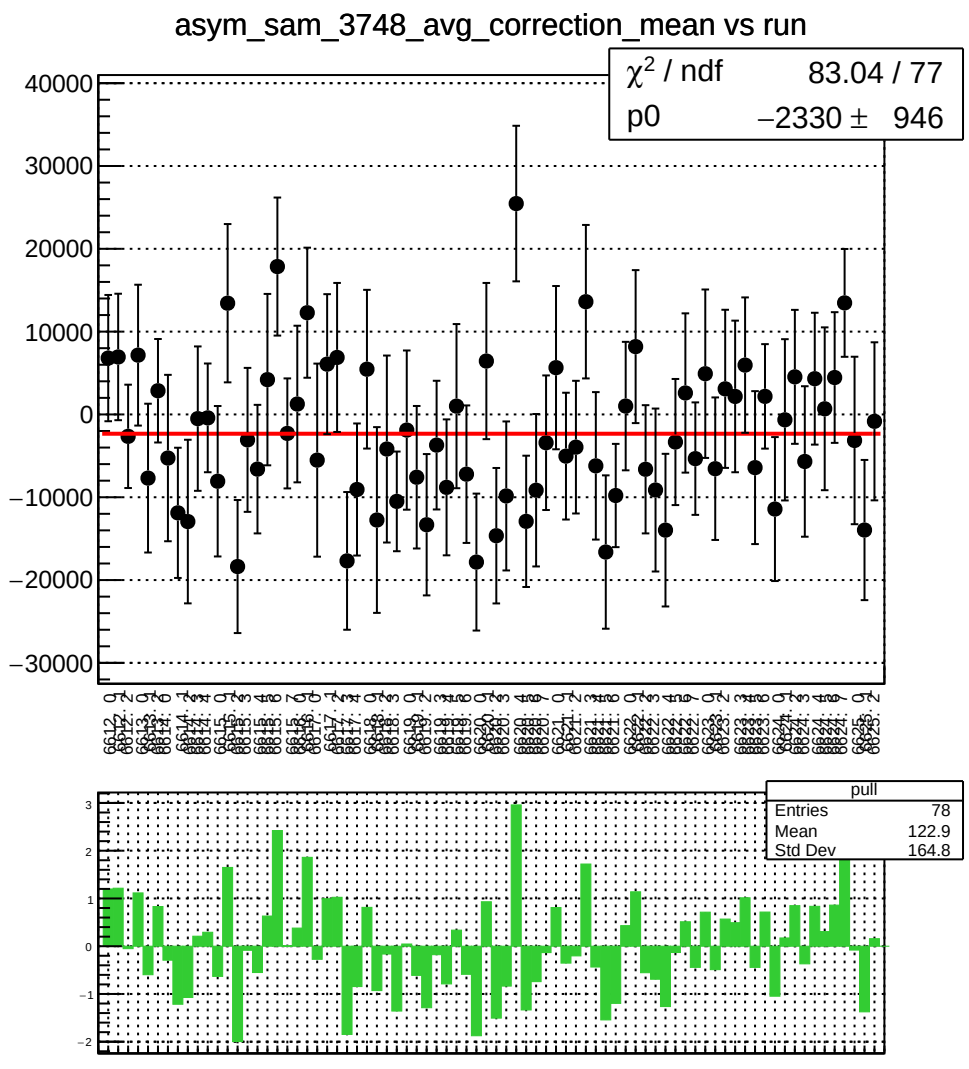

pull1D
Entries 78
Mean 0.004689
Std Dev 0.9513
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

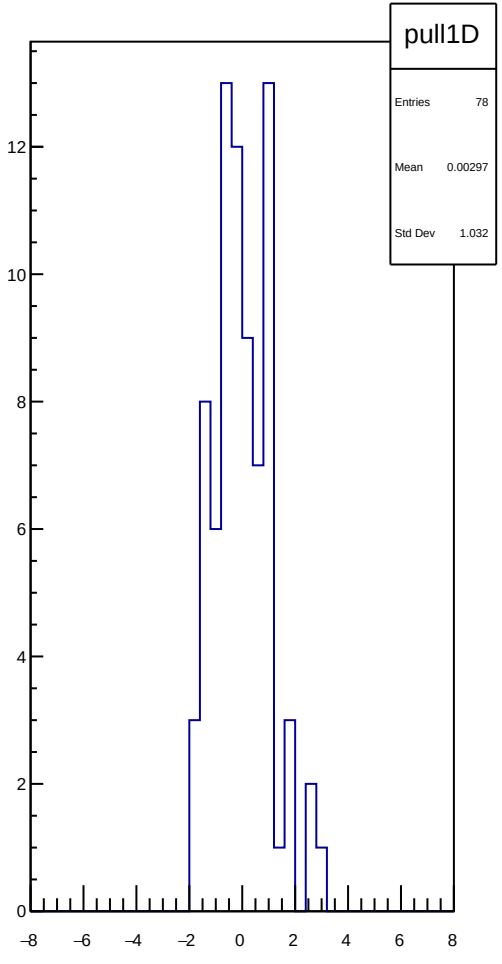

asym_sam_1548_avg_rms vs run
χ² / ndf 6499 / 77
p0 666.7 ± 0.537
850
800
750
700
650
600

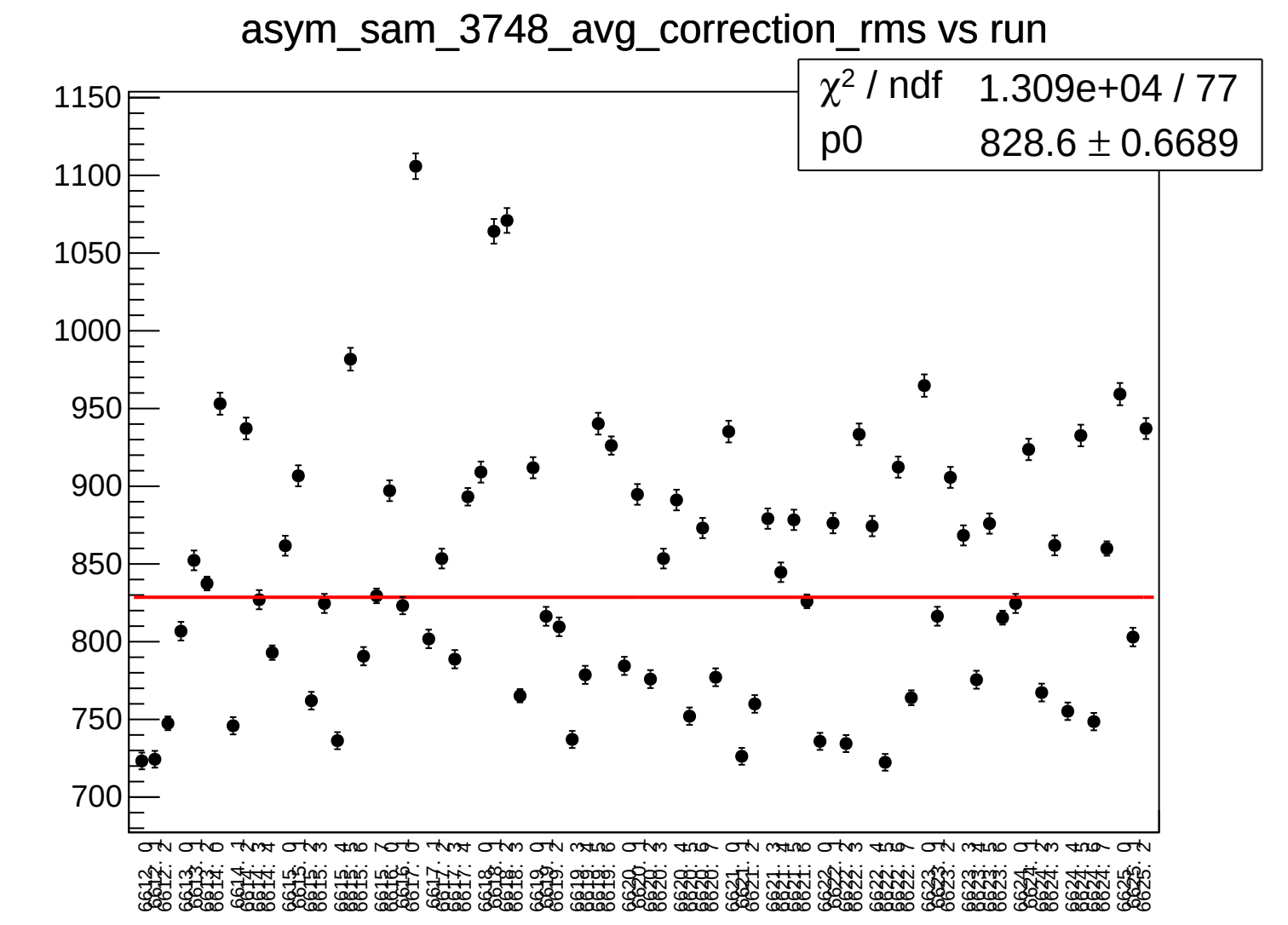

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 71.66 / 77
p0 158.1 ± 103.1
pull
Entries 78
Mean −22.64
Std Dev 25.81

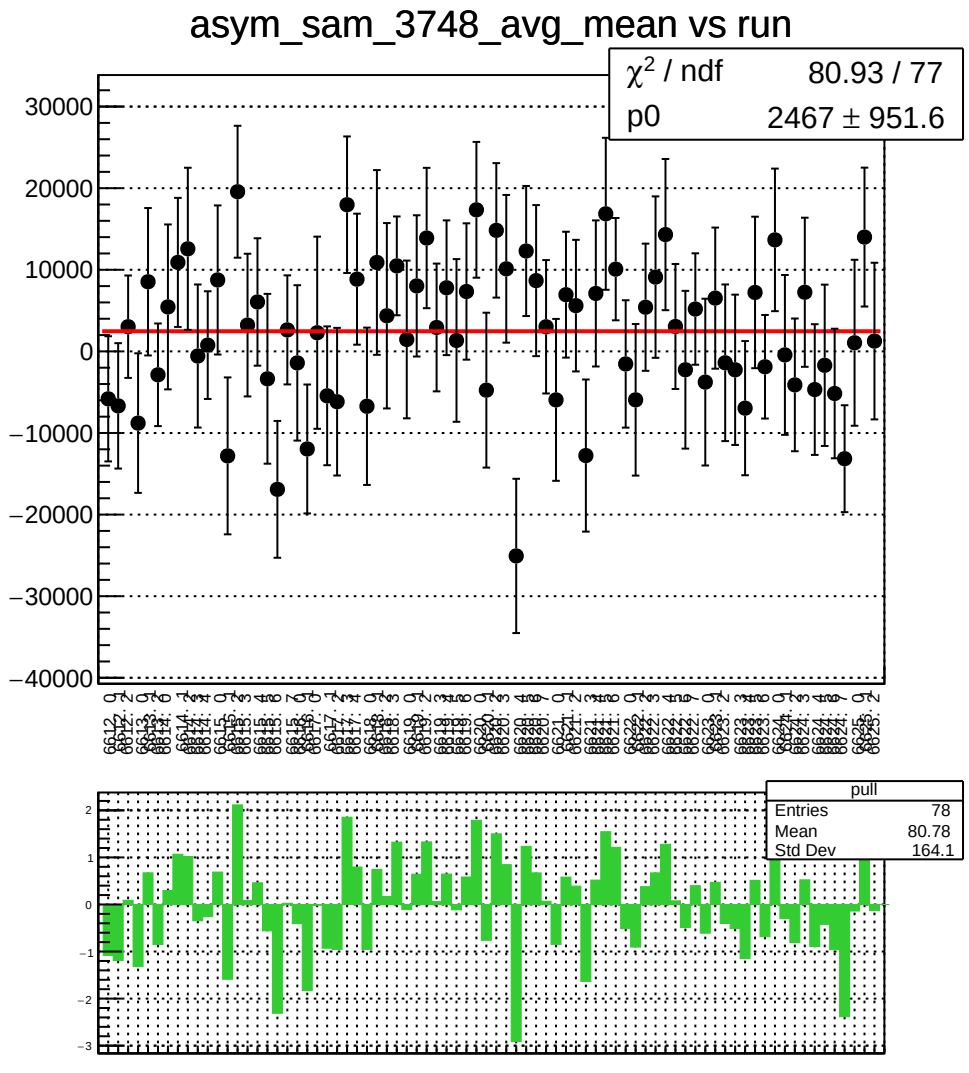

pull1D
Entries 78
Mean −0.01355
Std Dev 0.9584

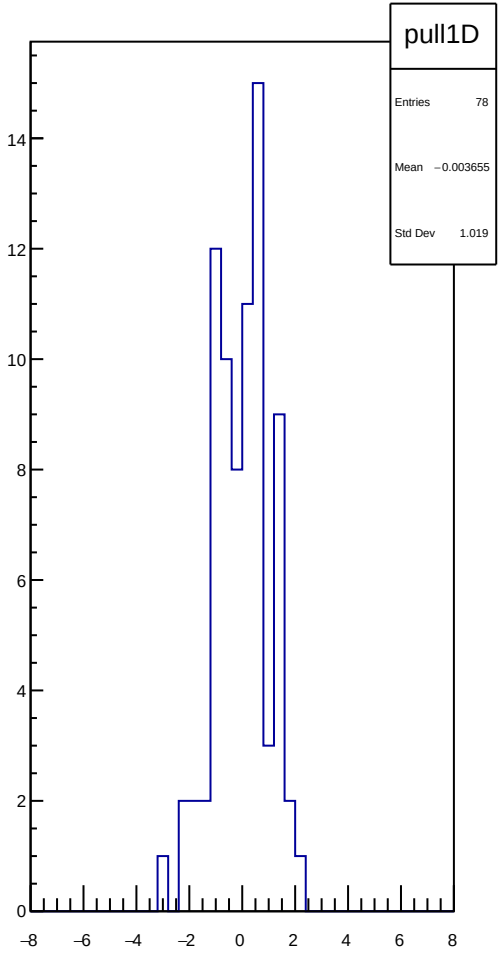

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.702e+04 / 77
p0 90.16 ± 0.07288
160
150
140
130
120
110
100
90
80
70

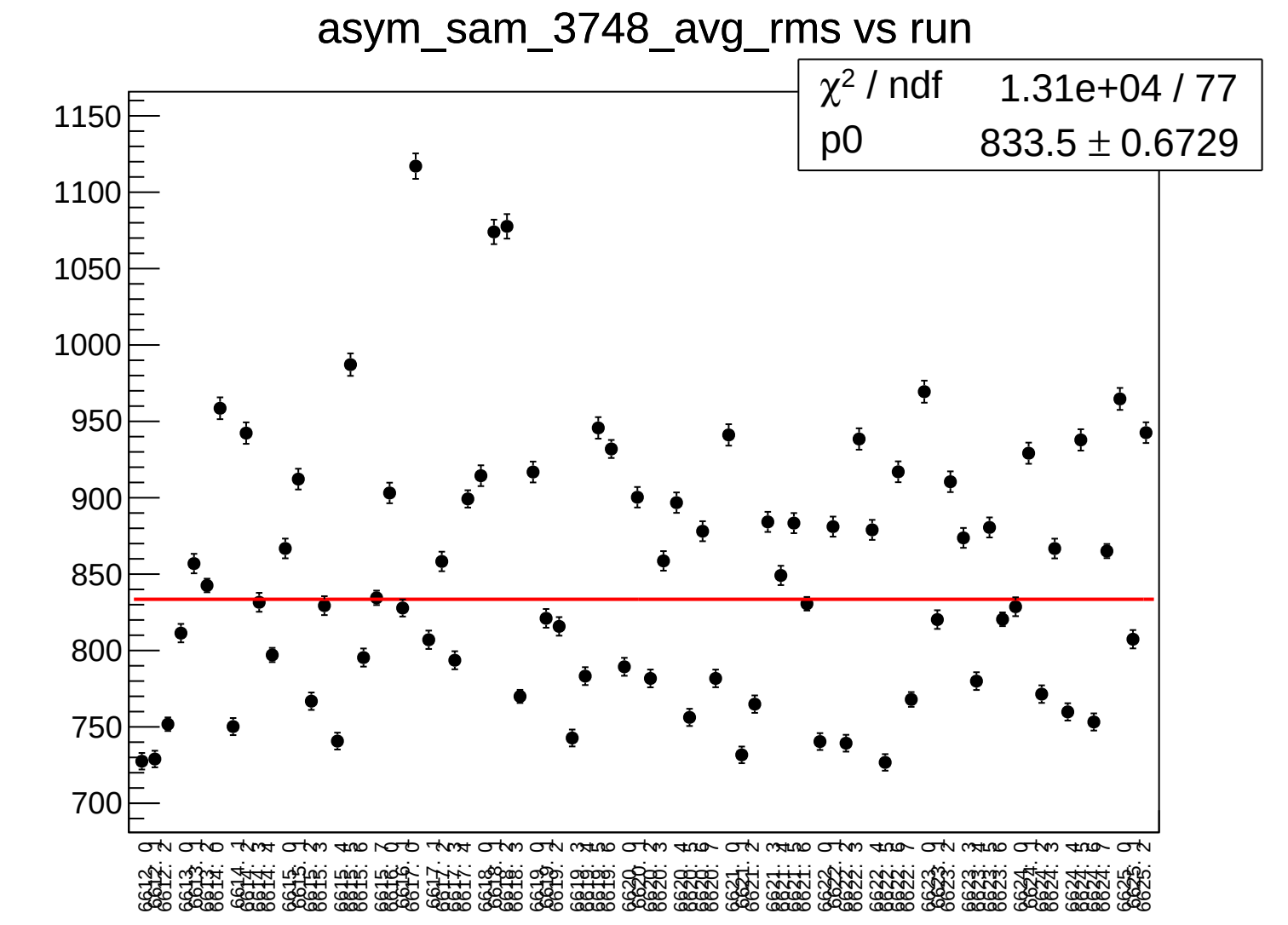

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 83.04 / 77
p0 −2330 ± 946
pull
Entries 78
Mean 122.9
Std Dev 164.8

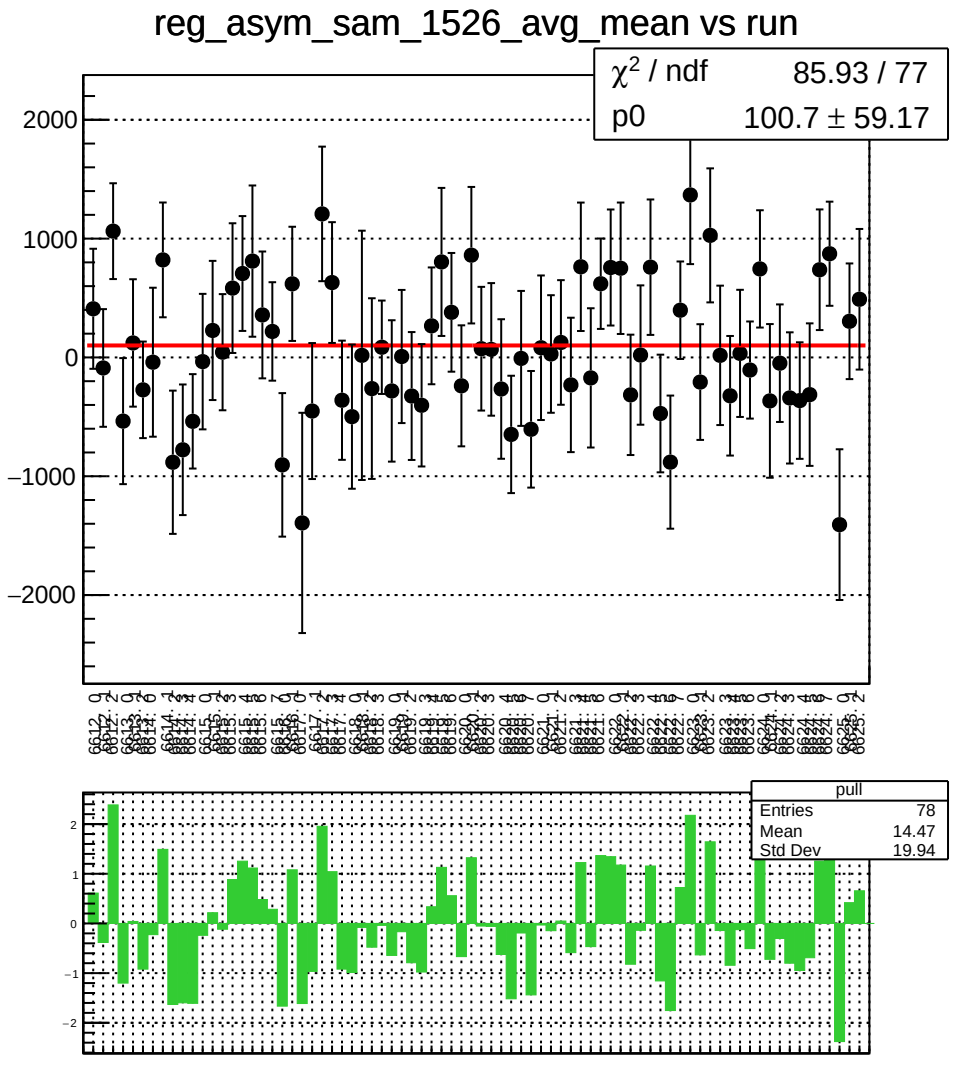

pull1D
Entries 78
Mean 0.00297
Std Dev 1.032

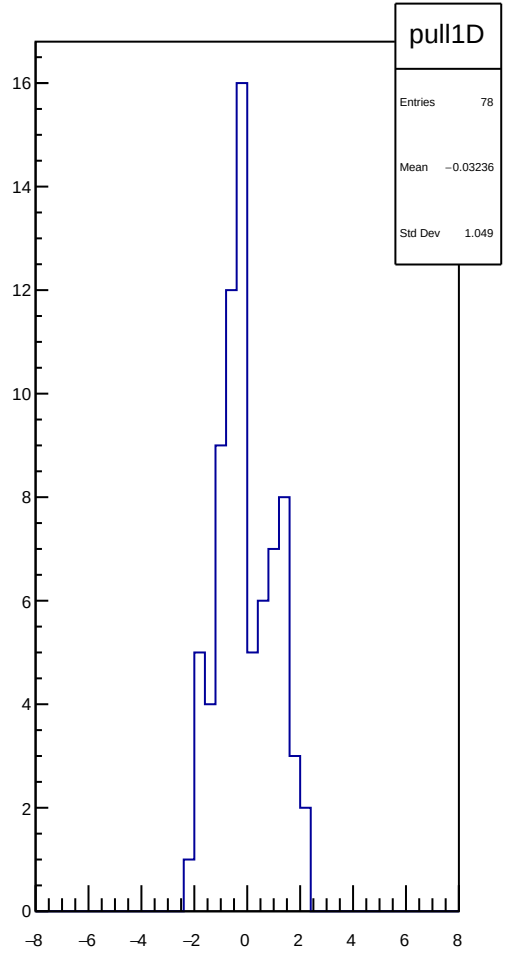

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1.309e+04 / 77
p0 828.6 ± 0.6689
1150
1100
1050
1000
950
900
850
800
750
700

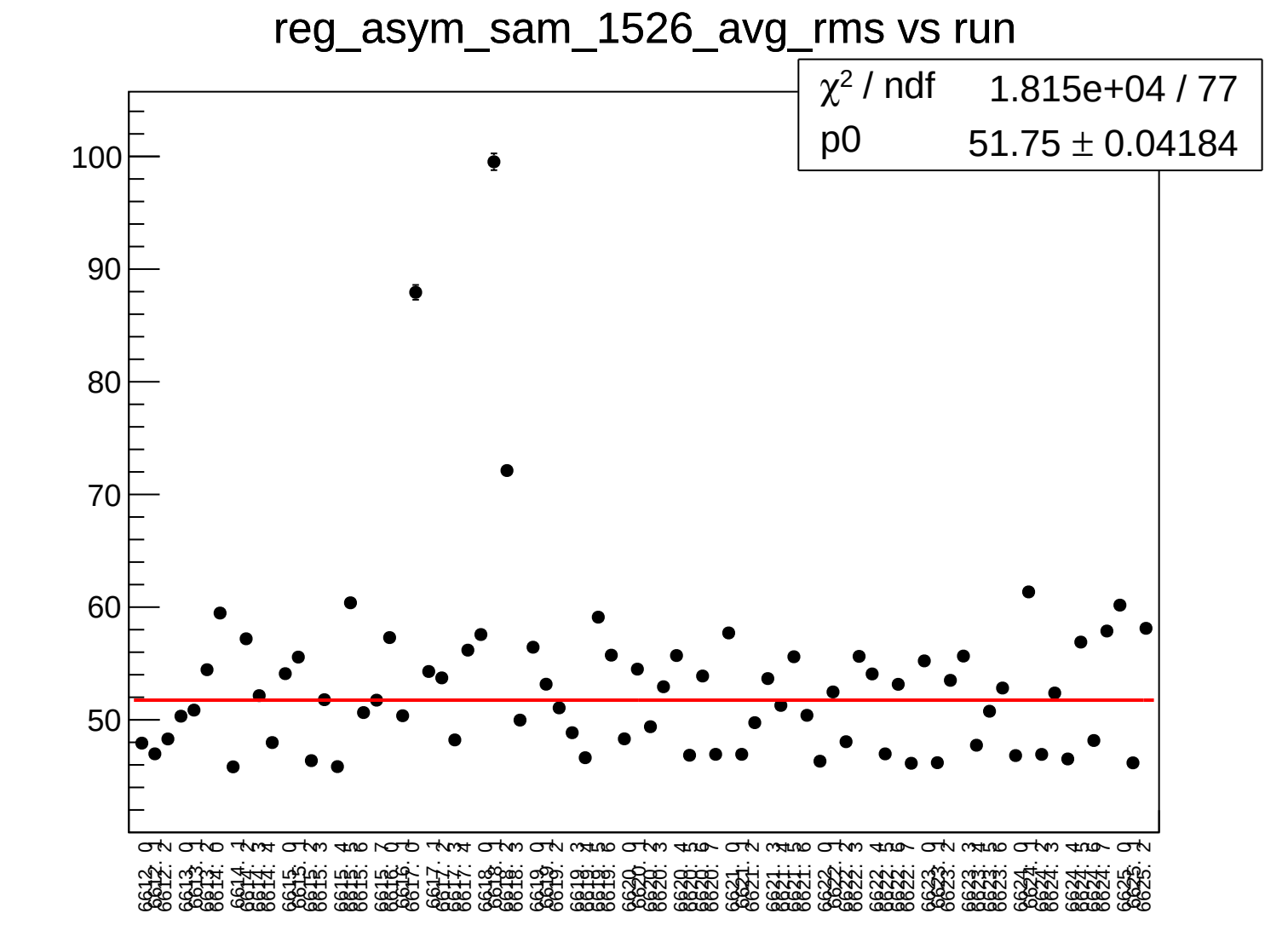

asym_sam_3748_avg_mean vs run
χ² / ndf 80.93 / 77
p0 2467 ± 951.6
pull
Entries 78
Mean 80.78
Std Dev 164.1

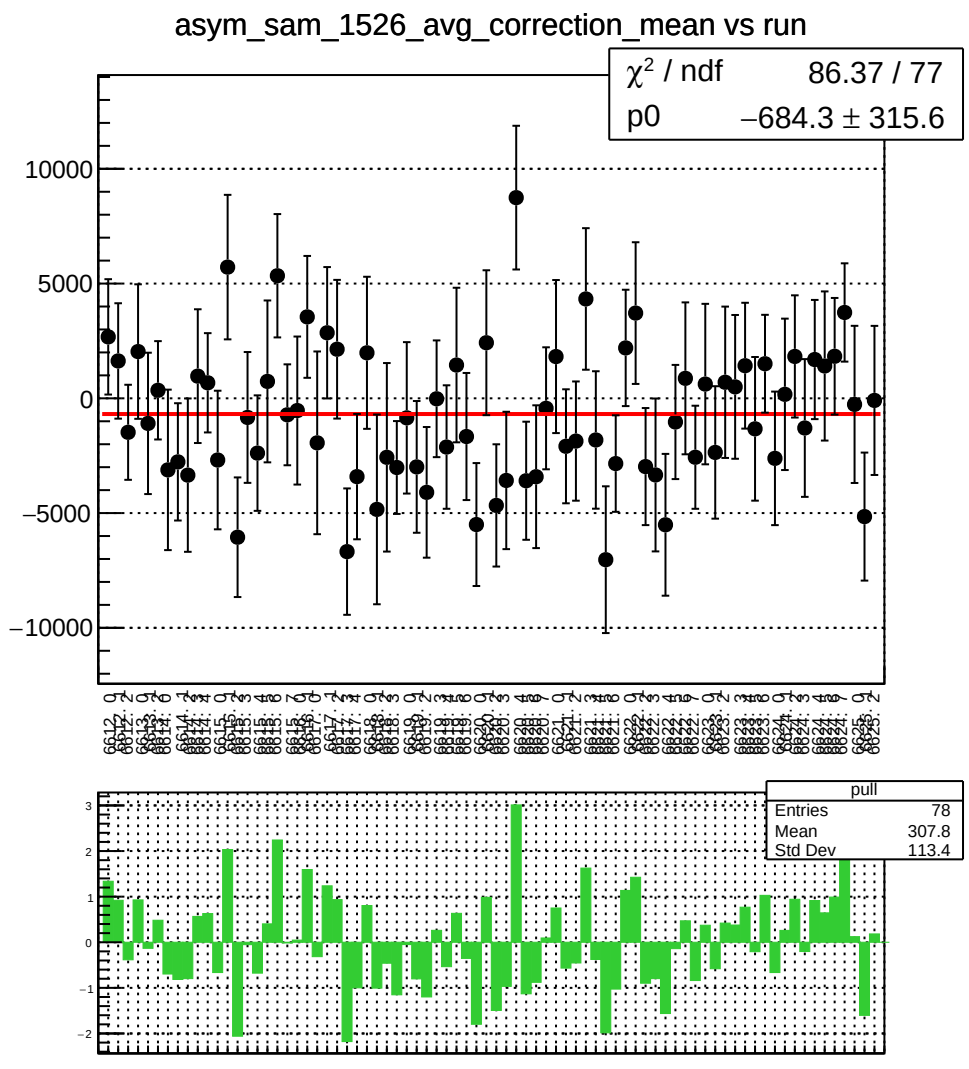

pull1D
Entries 78
Mean −0.003655
Std Dev 1.019

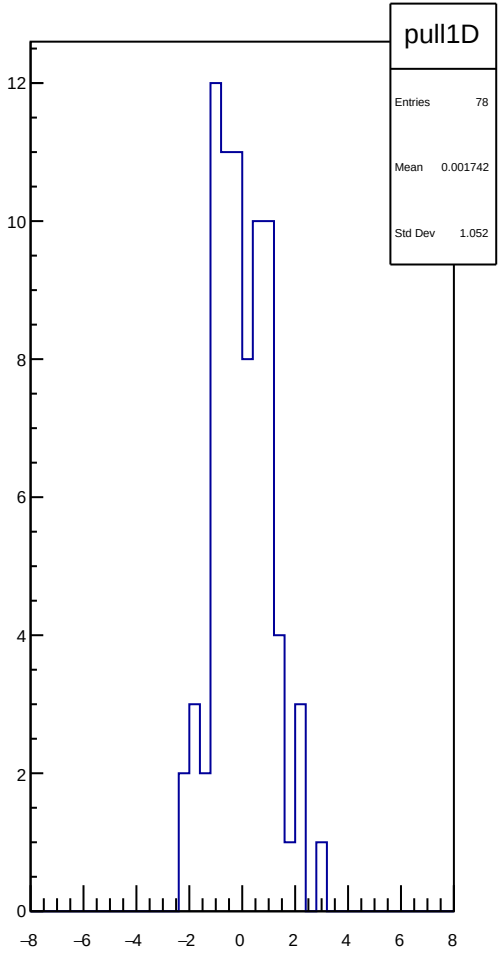

asym_sam_3748_avg_rms vs run
χ² / ndf 1.31e+04 / 77
p0 833.5 ± 0.6729
1150
1100
1050
1000
950
900
850
800
750
700

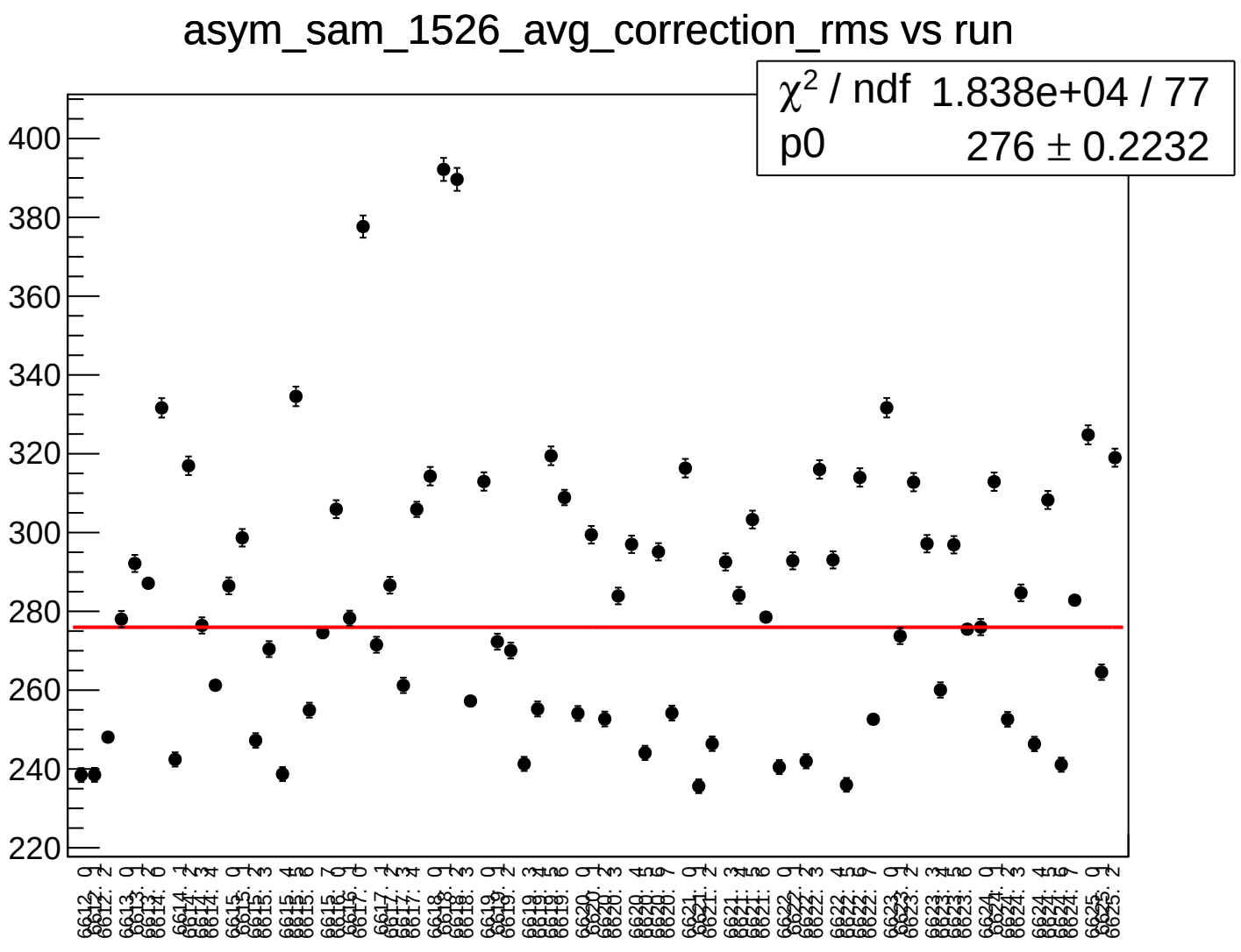

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 85.93 / 77
p0 100.7 ± 59.17
2000
1000
0
−1000
−2000
pull
Entries 78
Mean 14.47
Std Dev 19.94
2
1
0
−1
−2

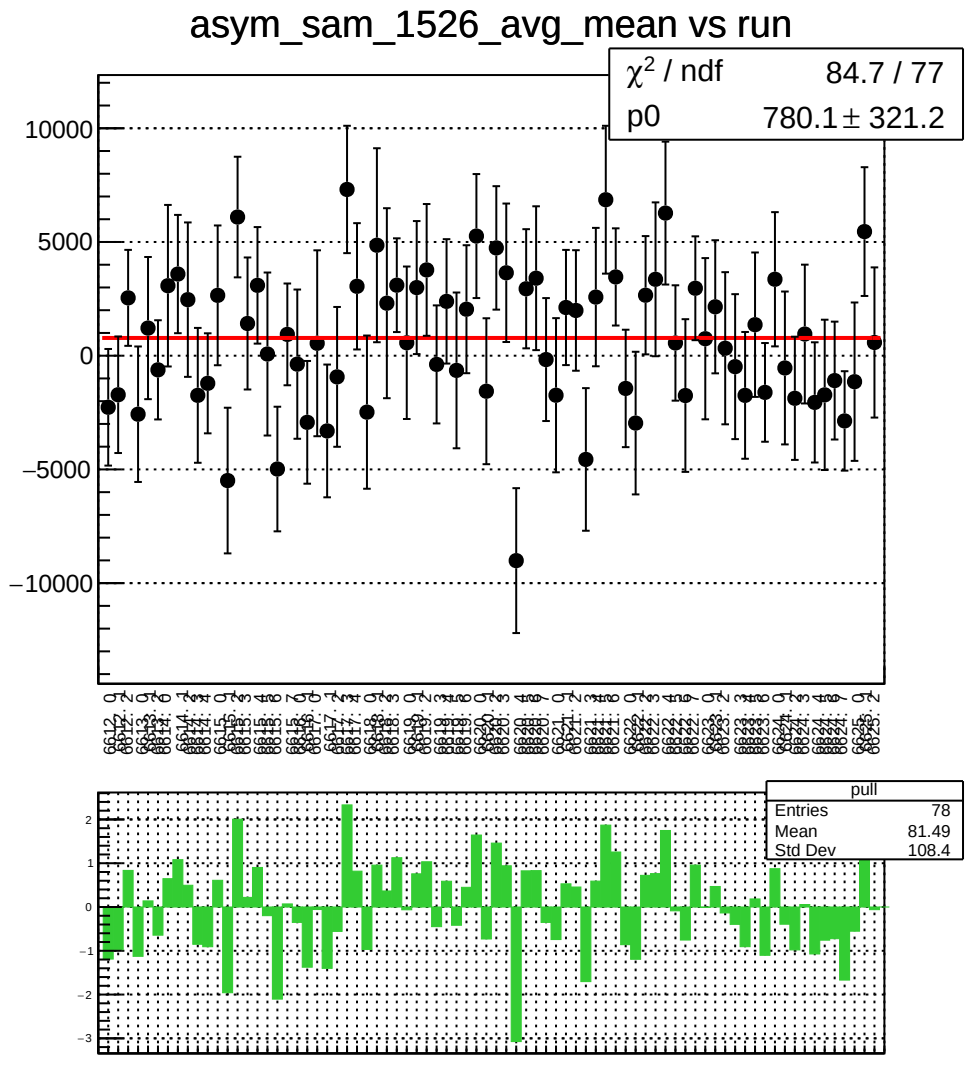

pull1D
Entries 78
Mean −0.03236
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

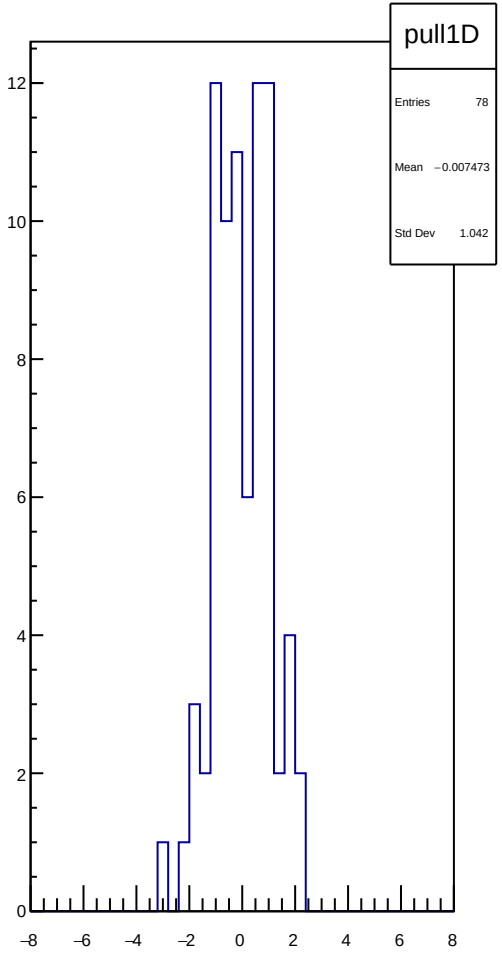

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.815e+04 / 77
p0 51.75 ± 0.04184
100
90
80
70
60
50

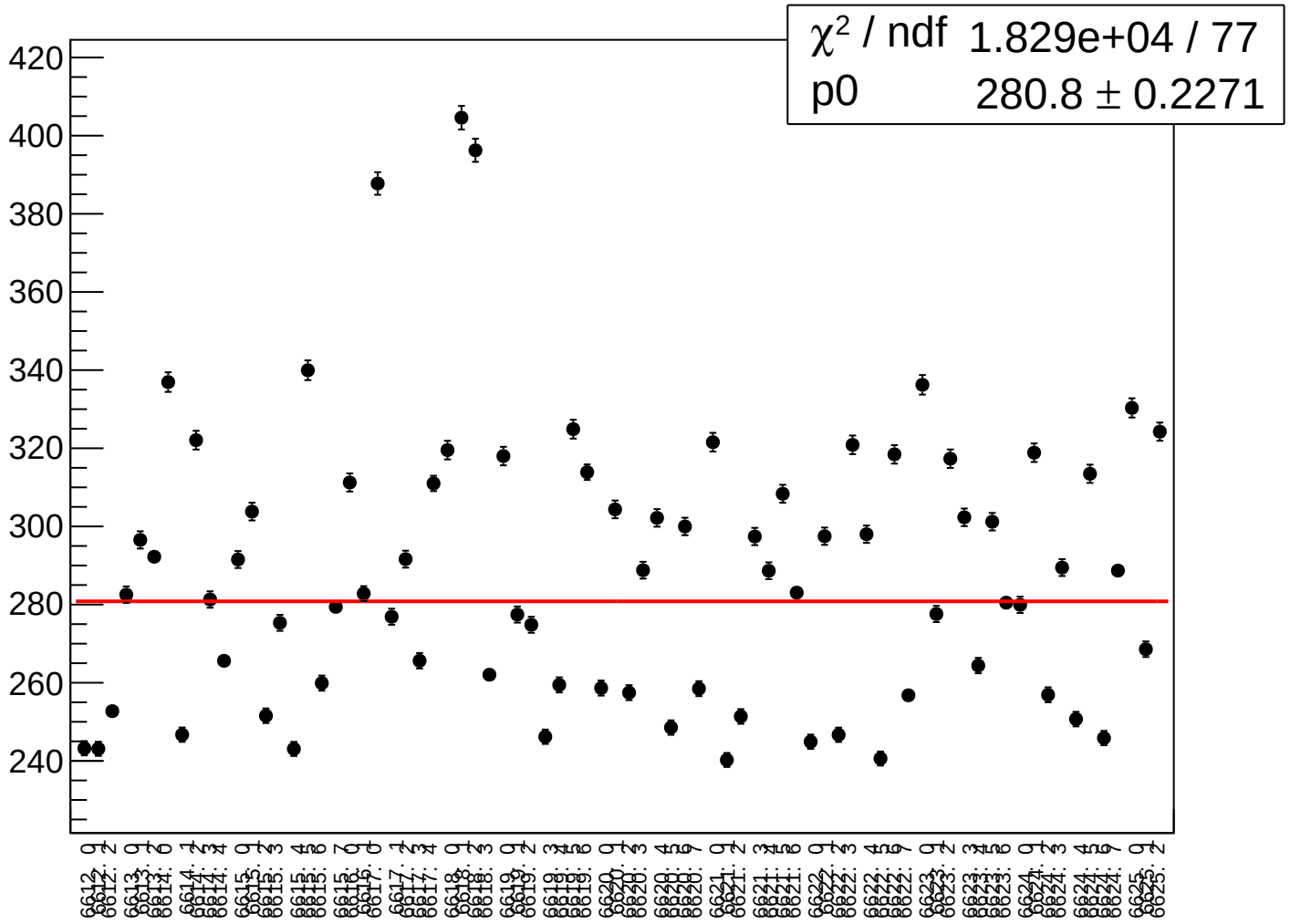

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 86.37 / 77
p0 −684.3 ± 315.6
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 307.8
Std Dev 113.4
3
2
1
0
−1
−2

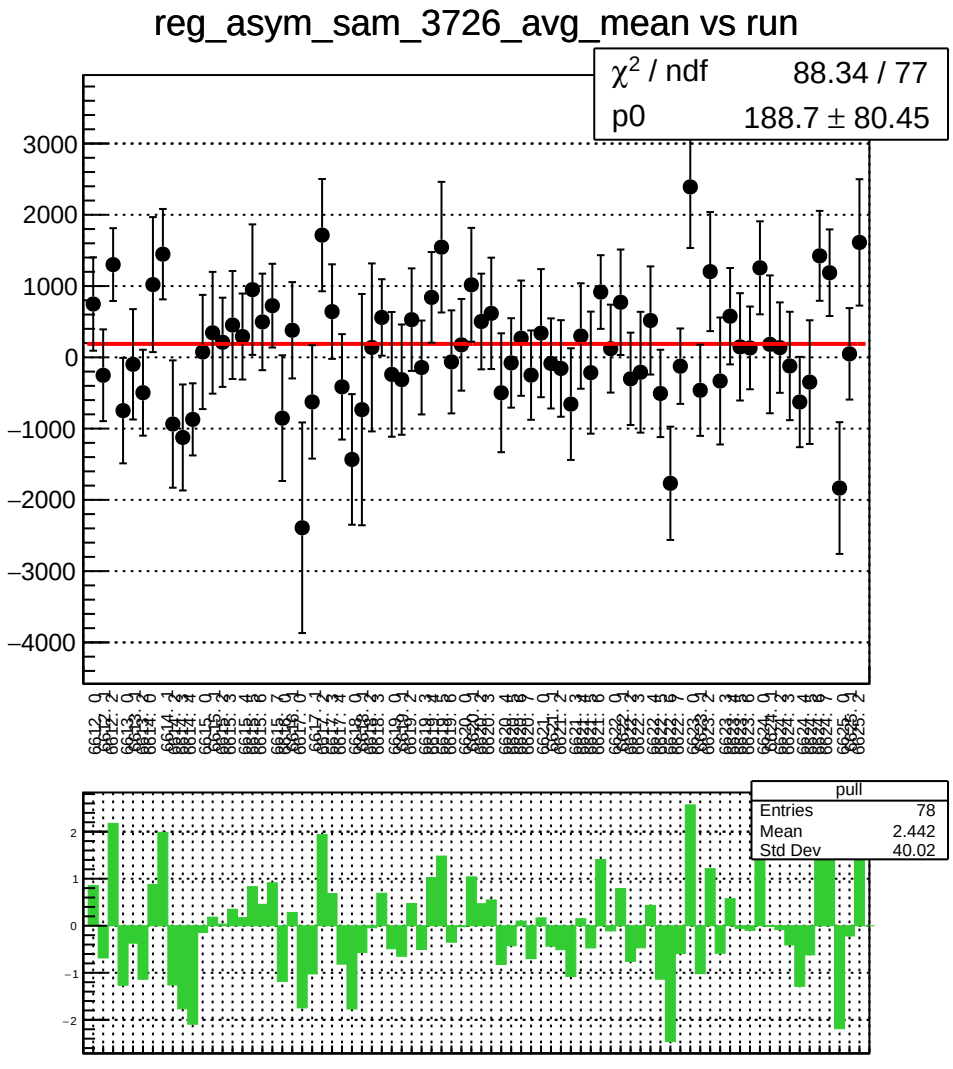

pull1D
Entries 78
Mean 0.001742
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

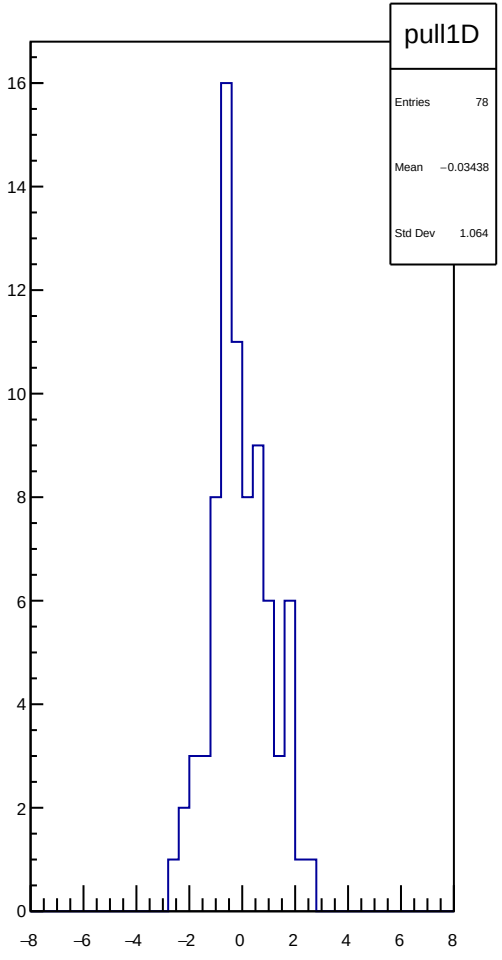

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1.838e+04 / 77
p0 276 ± 0.2232
400
380
360
340
320
300
280
260
240
220

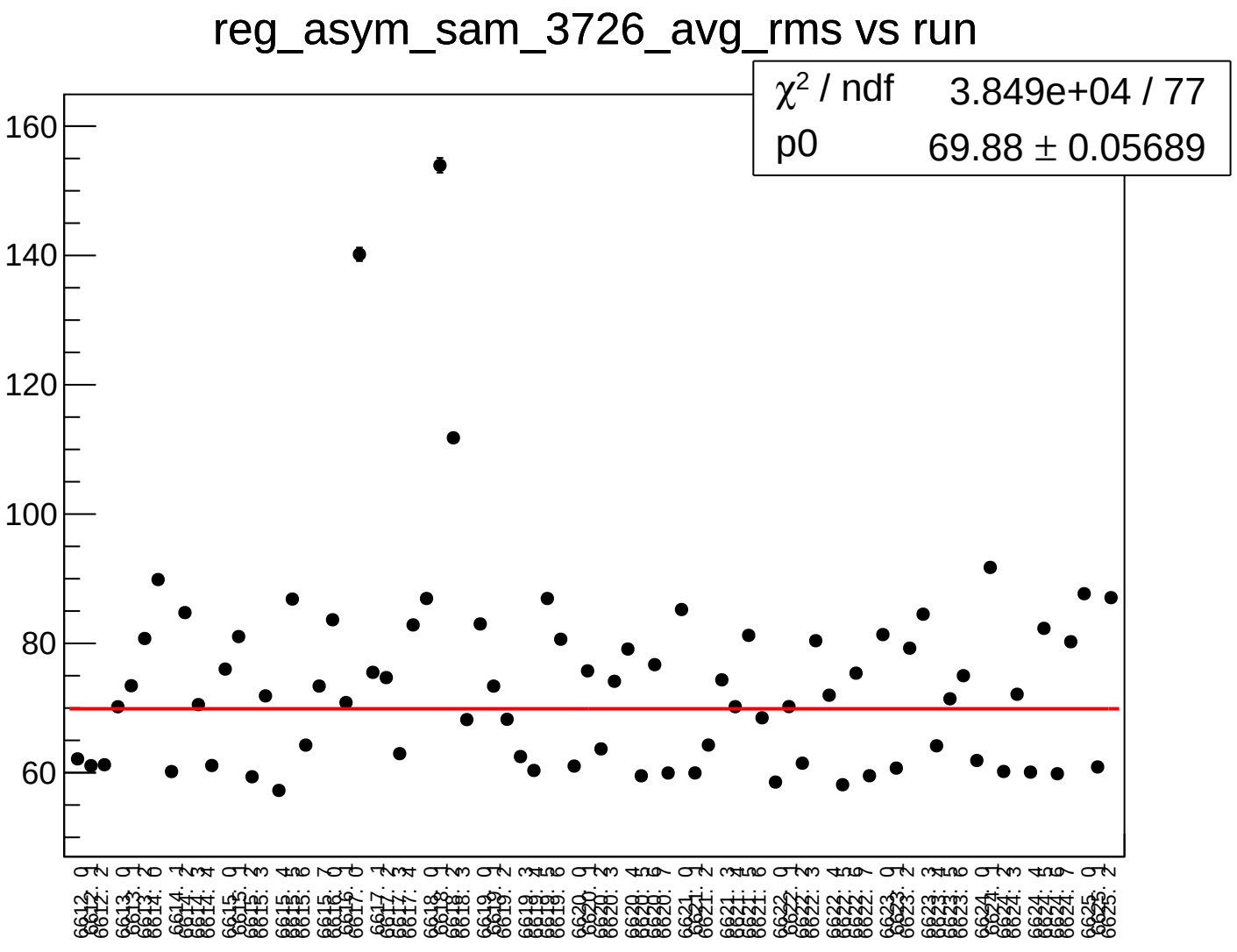

asym_sam_1526_avg_mean vs run
χ² / ndf 84.7 / 77
p0 780.1 ± 321.2
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 81.49
Std Dev 108.4
2
1
0
−1
−2
−3

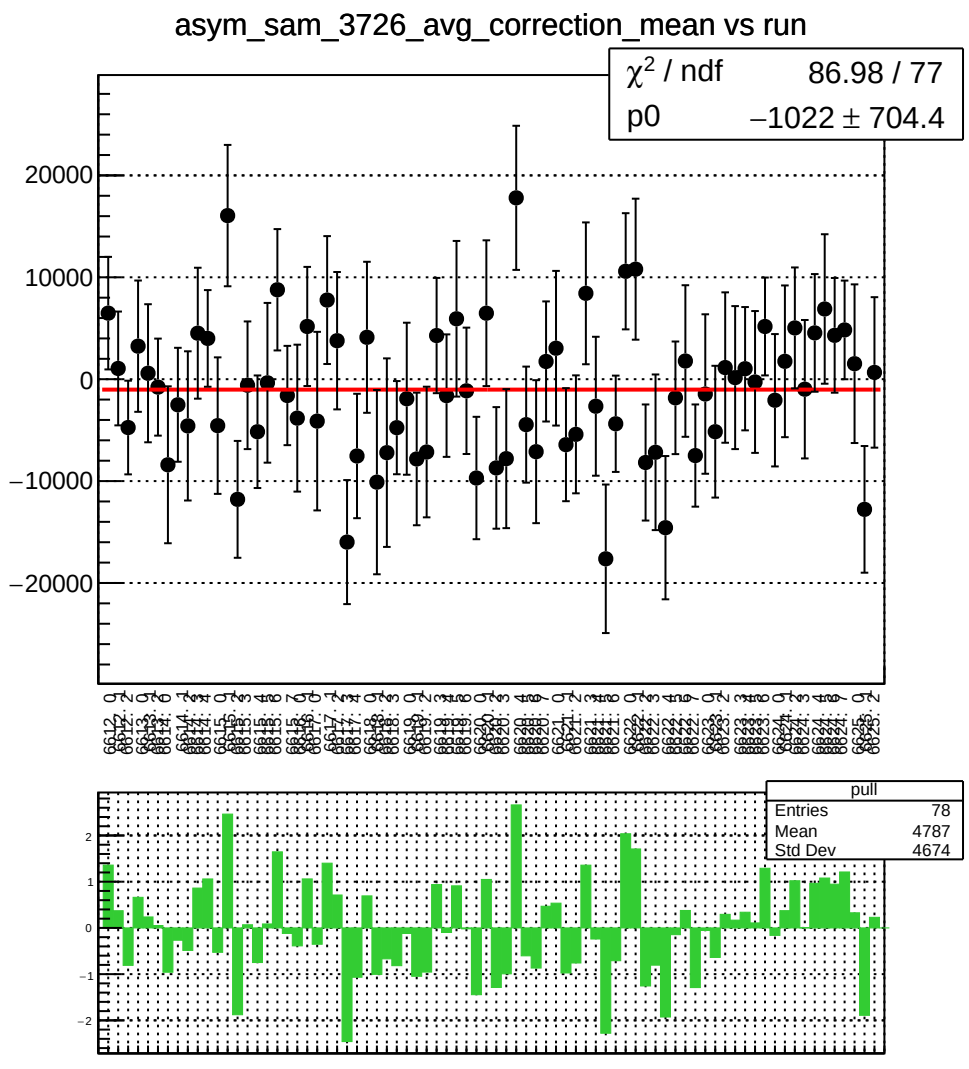

pull1D
Entries 78
Mean −0.007473
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

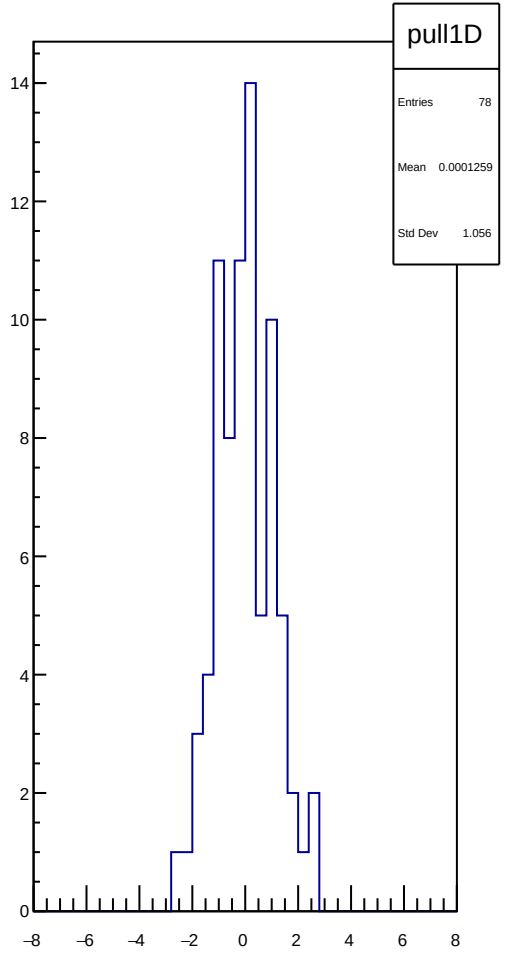

asym_sam_1526_avg_rms vs run
χ² / ndf 1.829e+04 / 77
p0 280.8 ± 0.2271
420
400
380
360
340
320
300
280
260
240

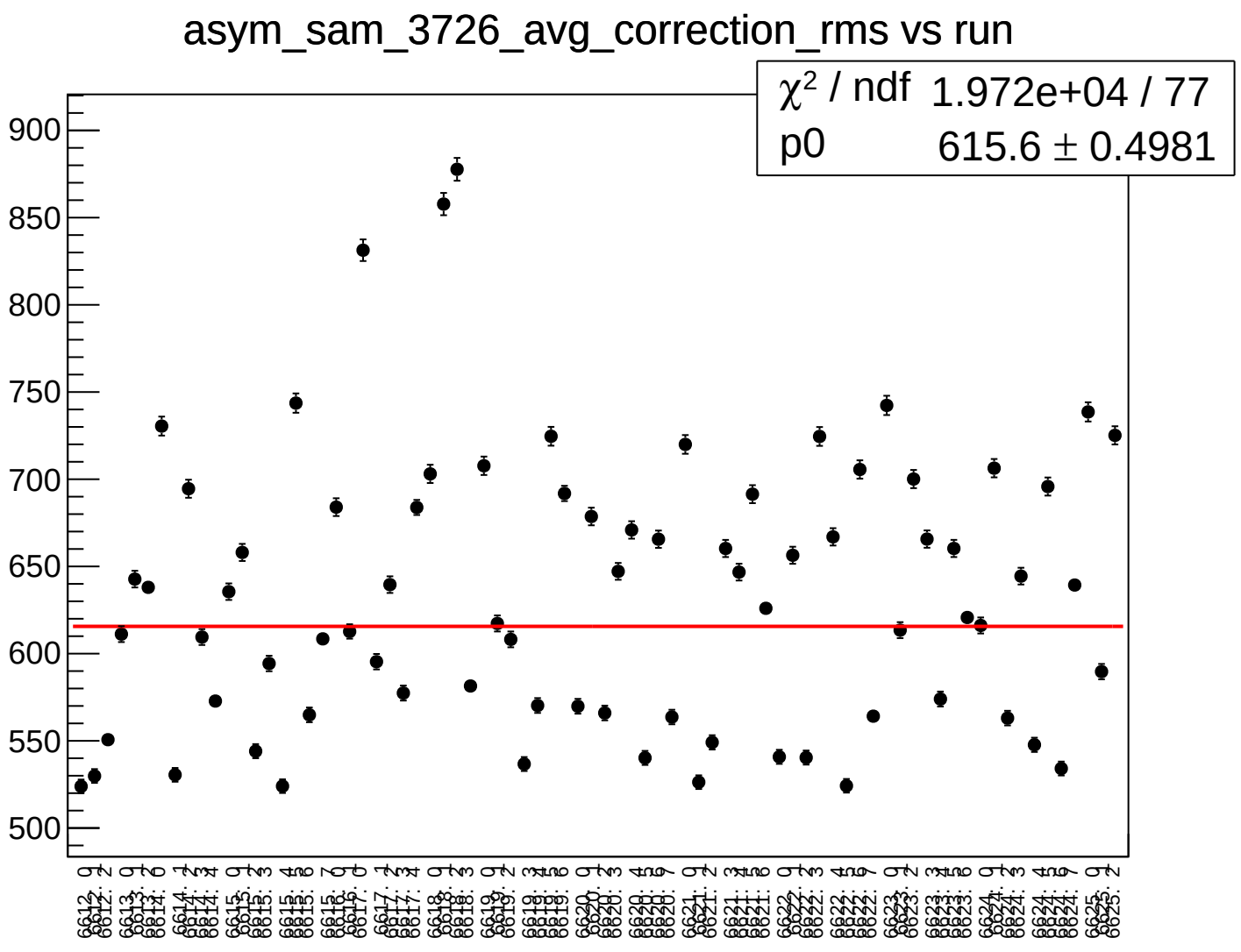

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 88.34 / 77
p0 188.7 ± 80.45
pull
Entries 78
Mean 2.442
Std Dev 40.02

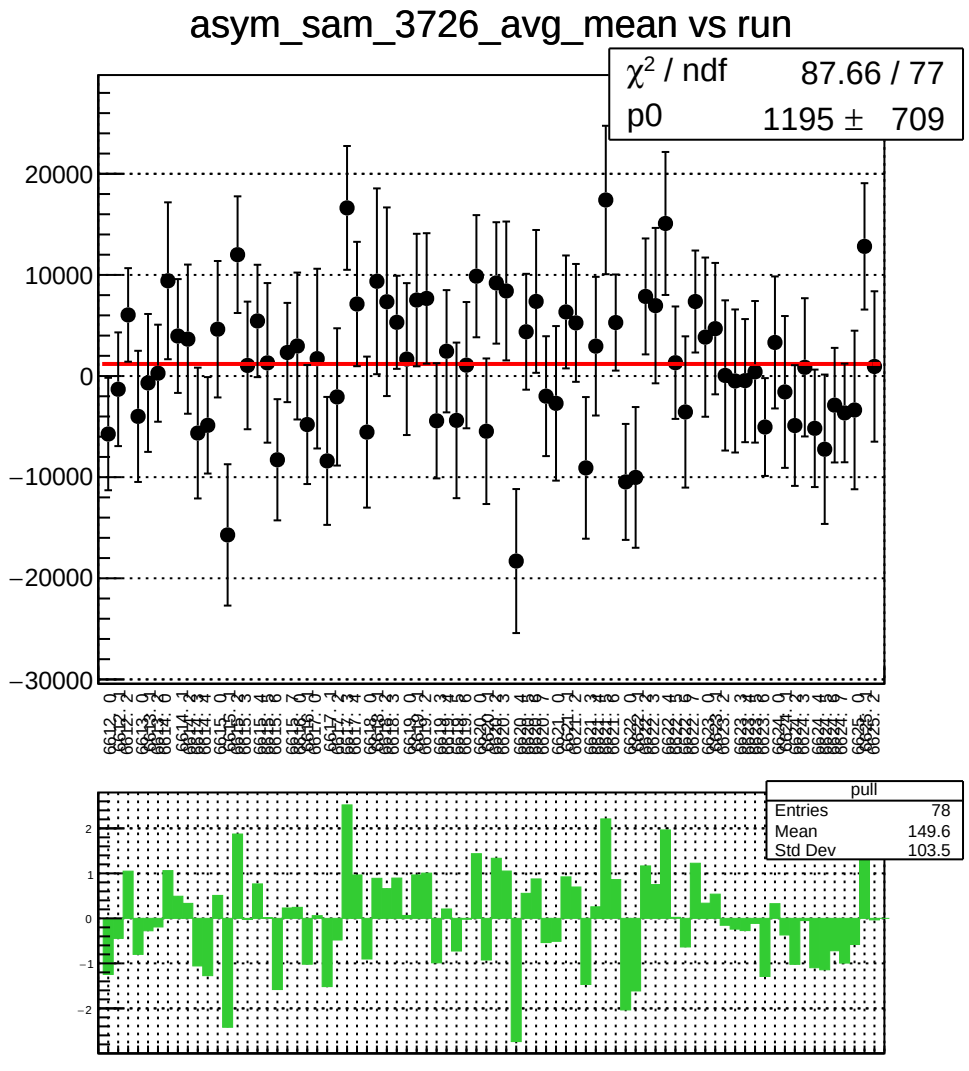

pull1D
Entries 78
Mean −0.03438
Std Dev 1.064

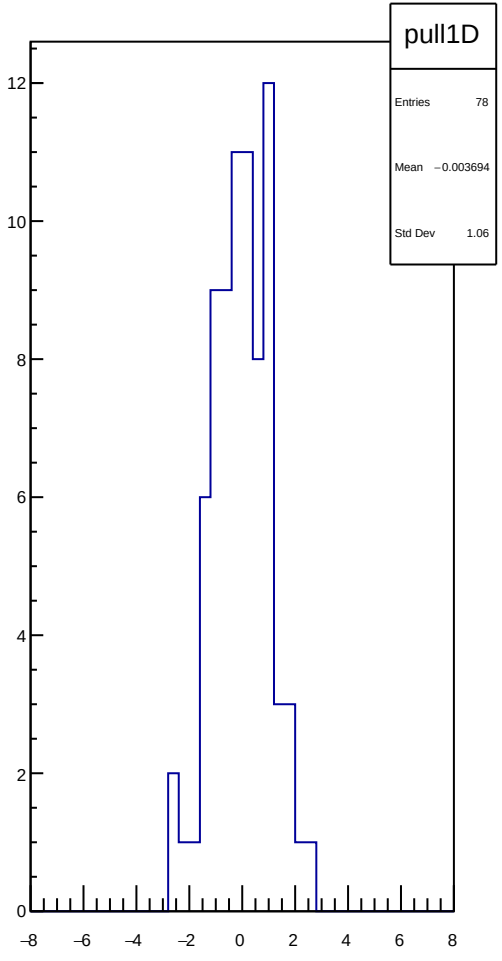

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.849e+04 / 77
p0 69.88 ± 0.05689
160
140
120
100
80
60

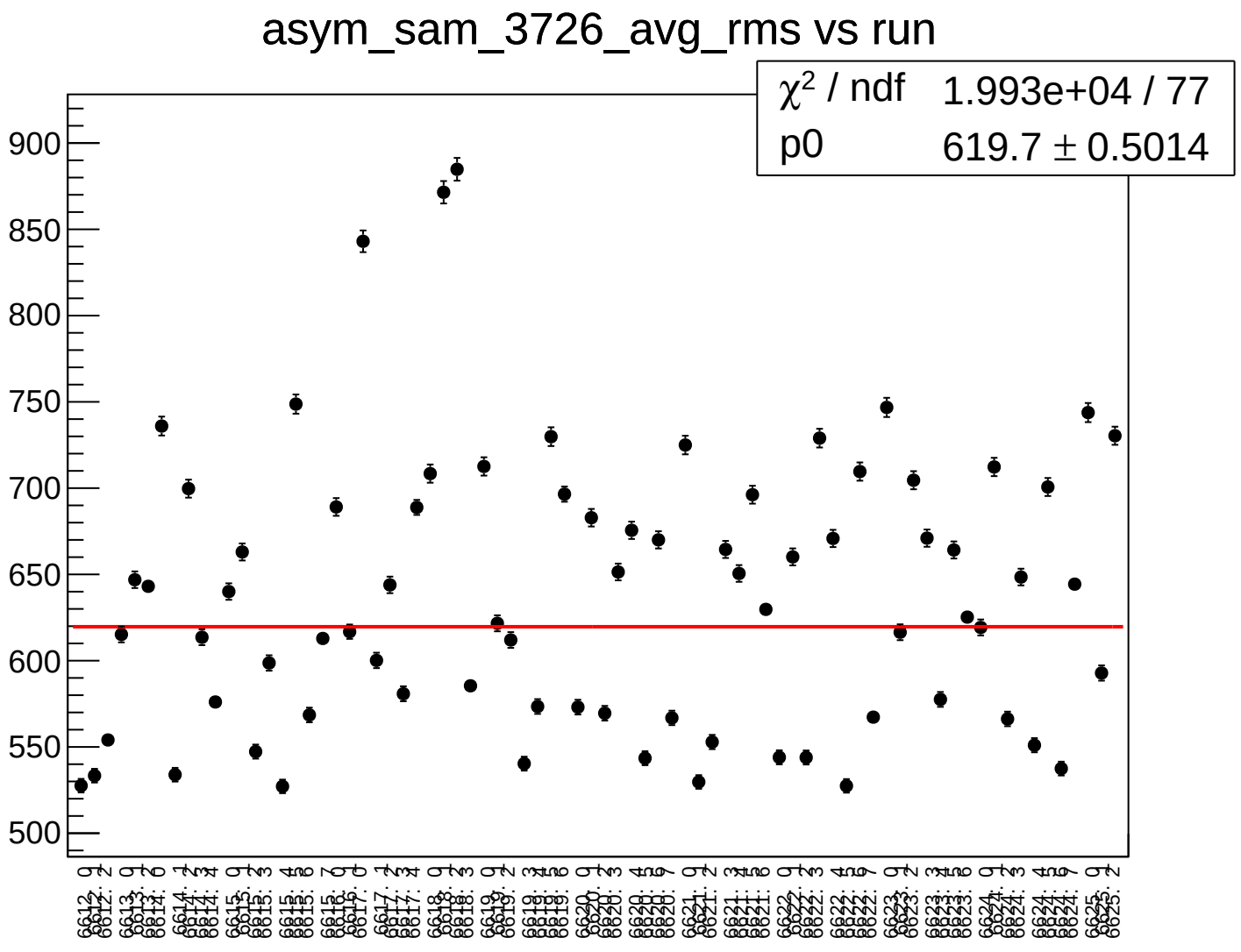

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 86.98 / 77
p0 −1022 ± 704.4
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 4787
Std Dev 4674
2
1
0
−1
−2

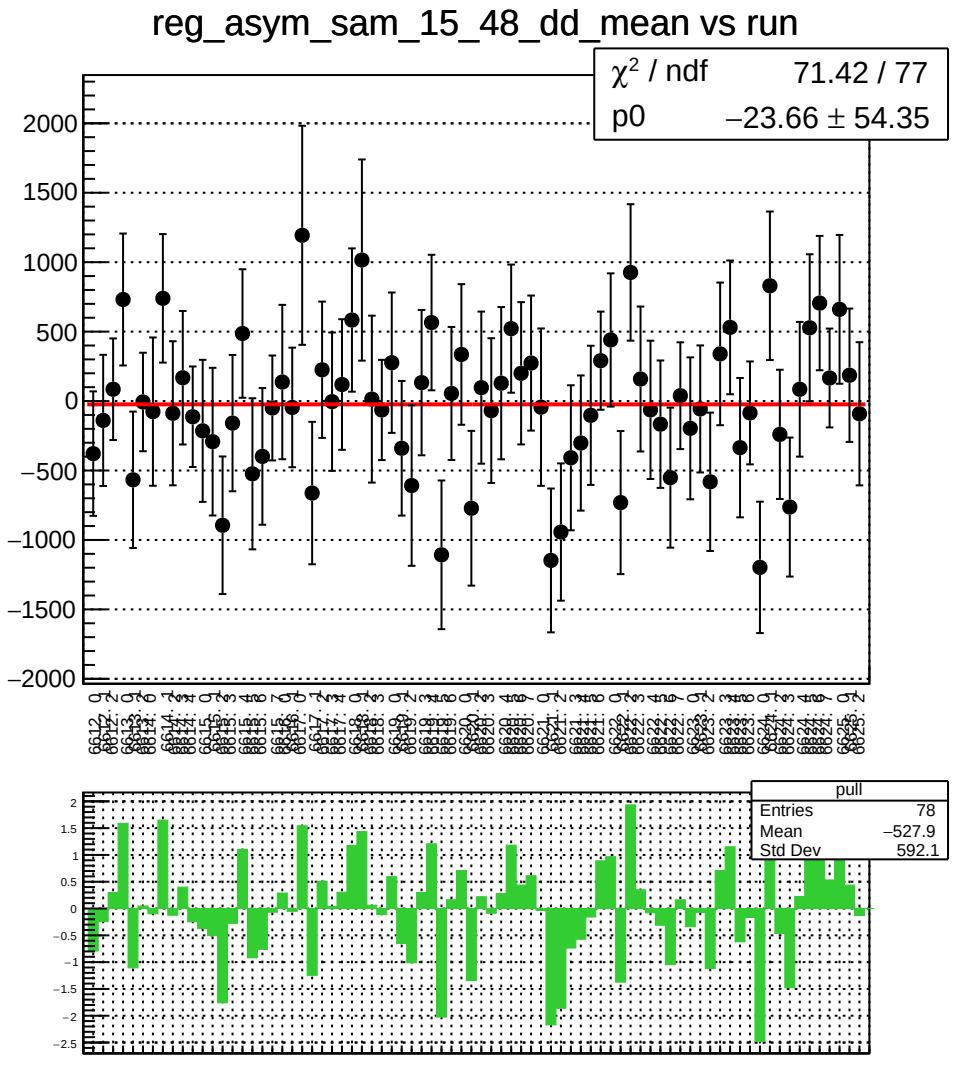

pull1D
Entries 78
Mean 0.0001259
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

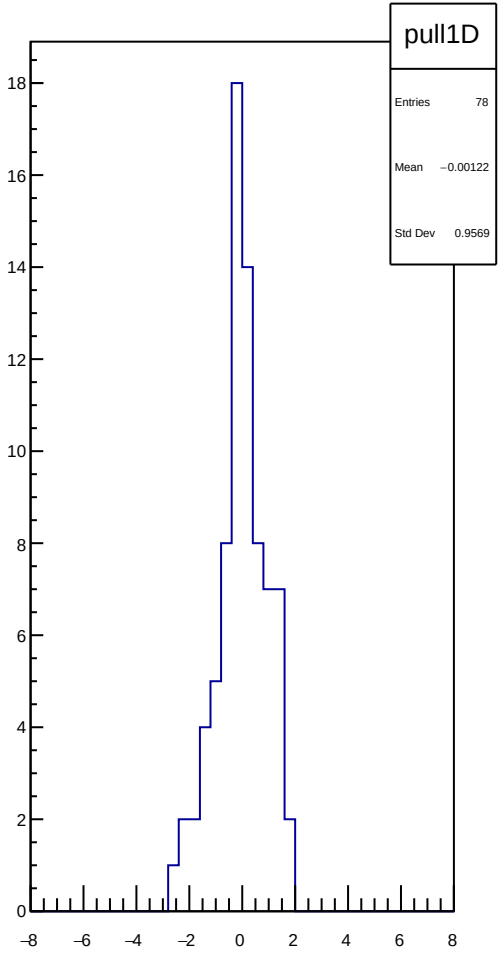

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1.972e+04 / 77
p0 615.6 ± 0.4981
900
850
800
750
700
650
600
550
500

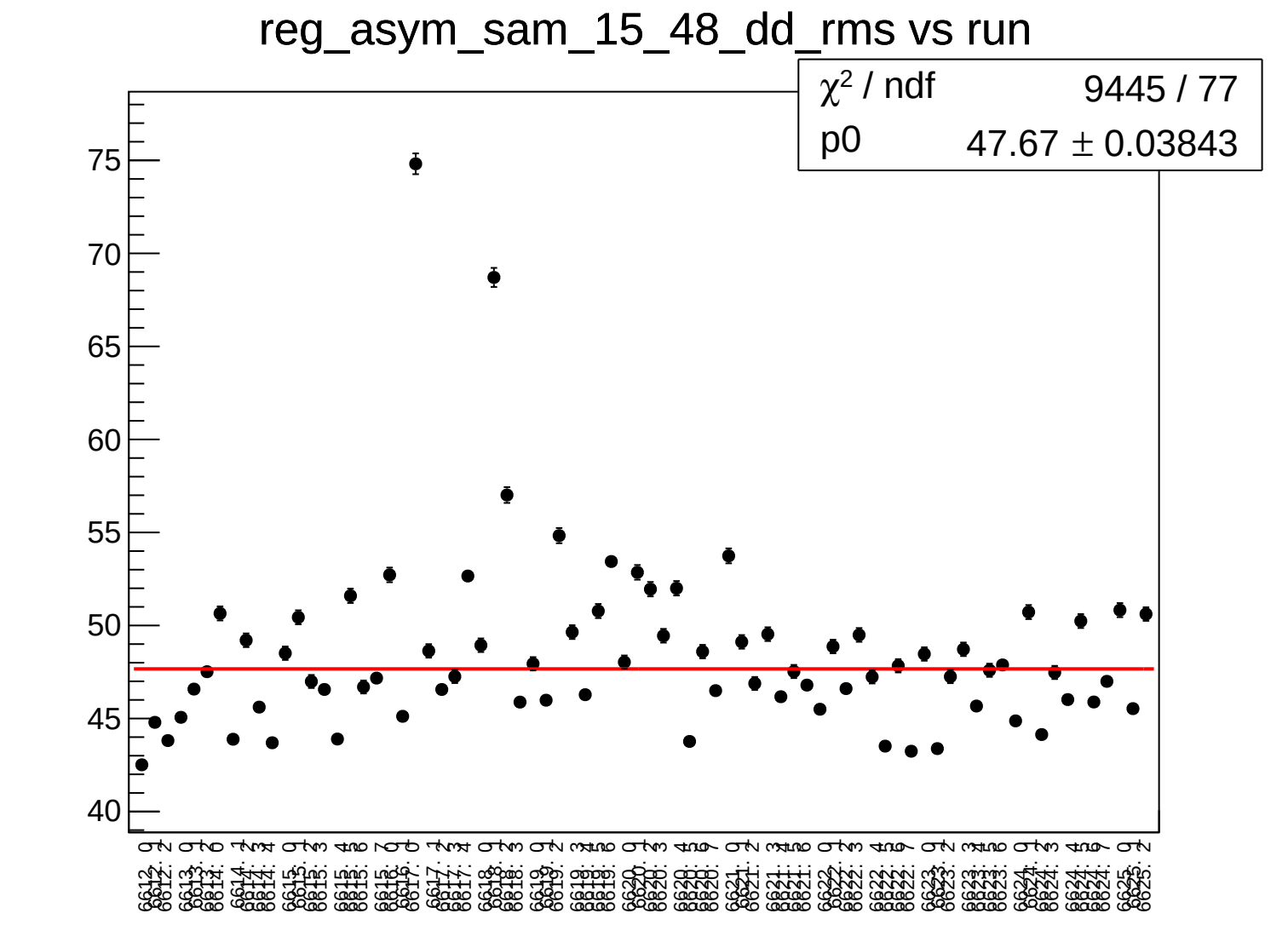

asym_sam_3726_avg_mean vs run
χ² / ndf 87.66 / 77
p0 1195 ± 709
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 149.6
Std Dev 103.5
2
1
0
−1
−2

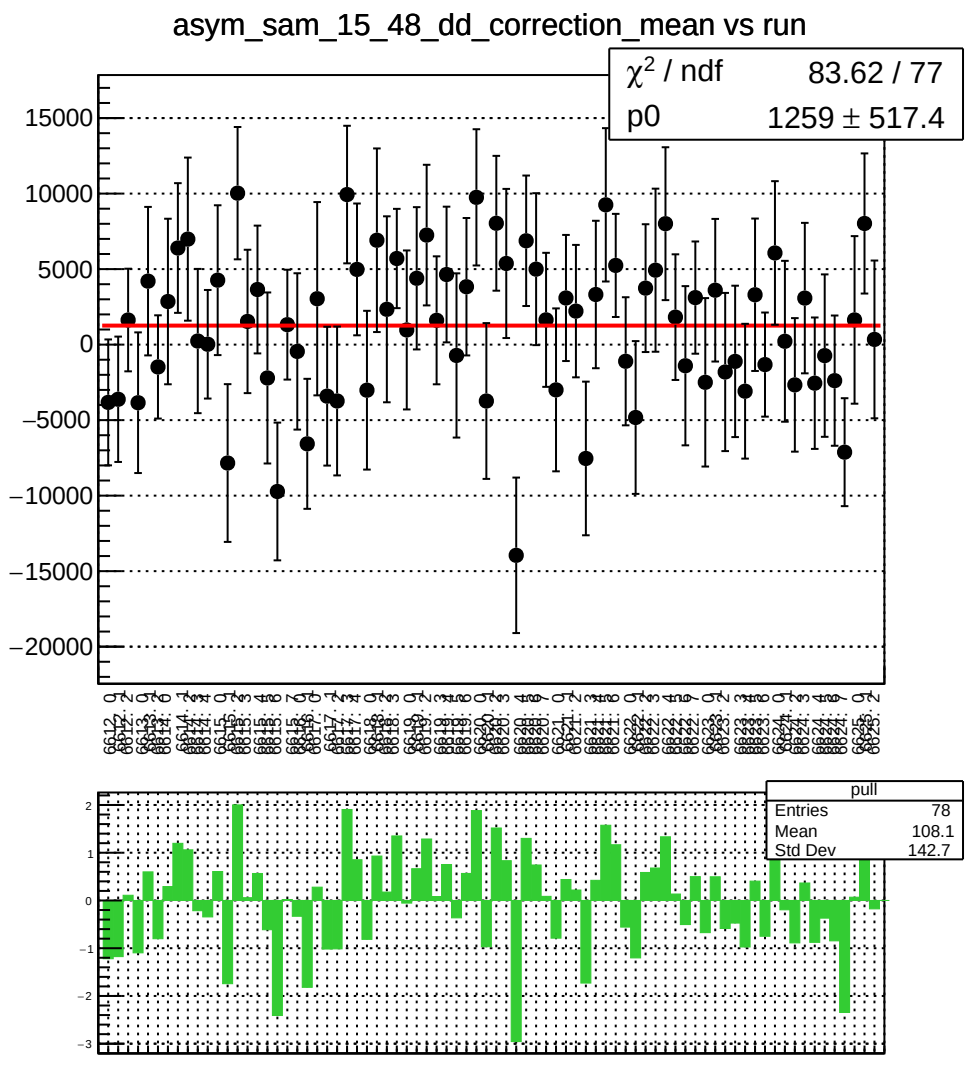

pull1D
Entries 78
Mean −0.003694
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

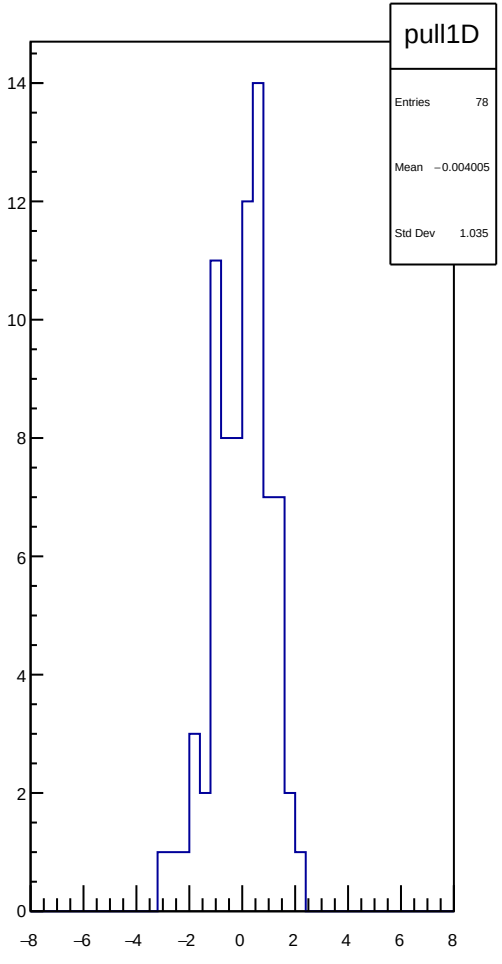

asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.993e+04 / 77
p0 619.7 ± 0.5014
900
850
800
750
700
650
600
550
500

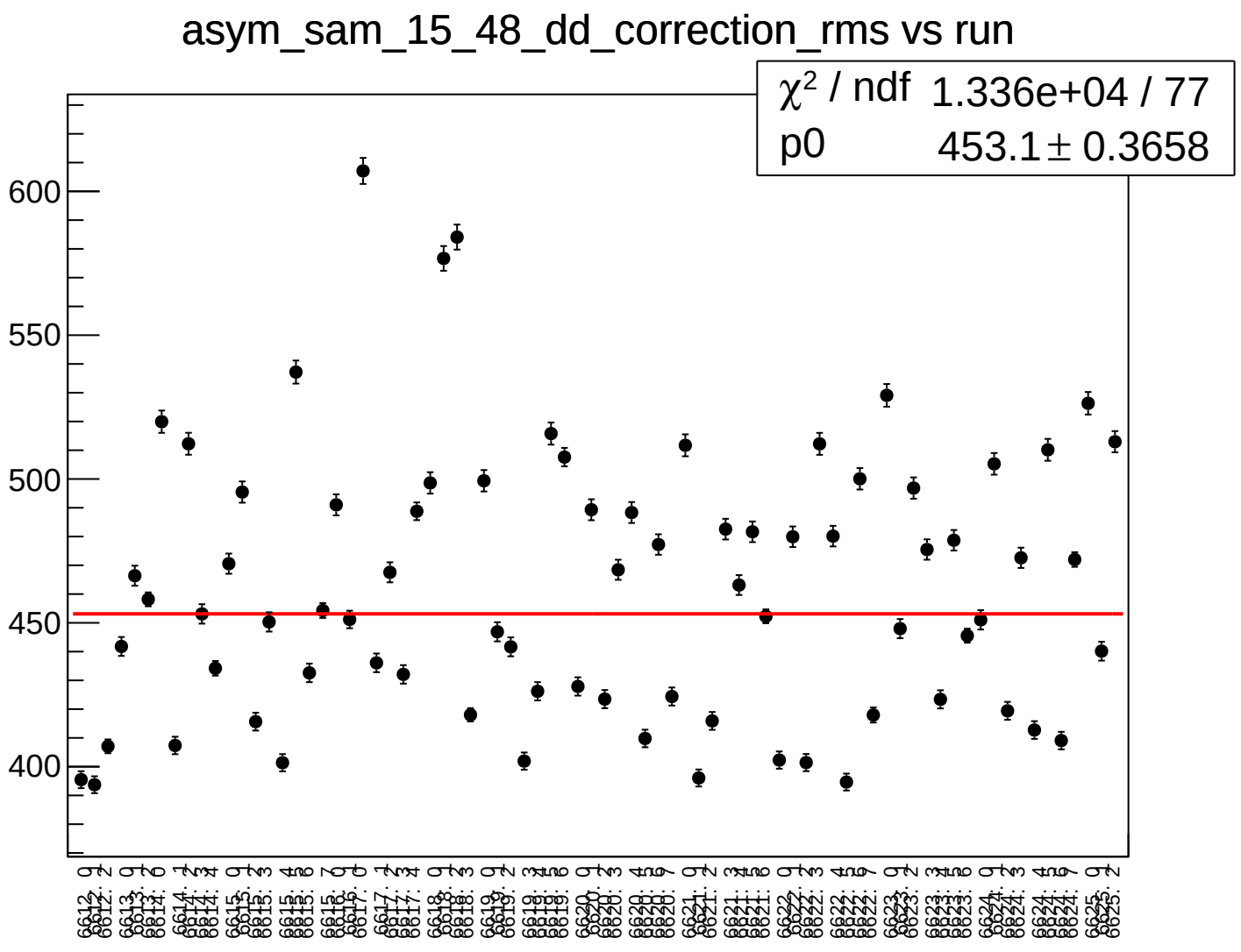

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 71.42 / 77
p0 −23.66 ± 54.35
pull
Entries 78
Mean −527.9
Std Dev 592.1

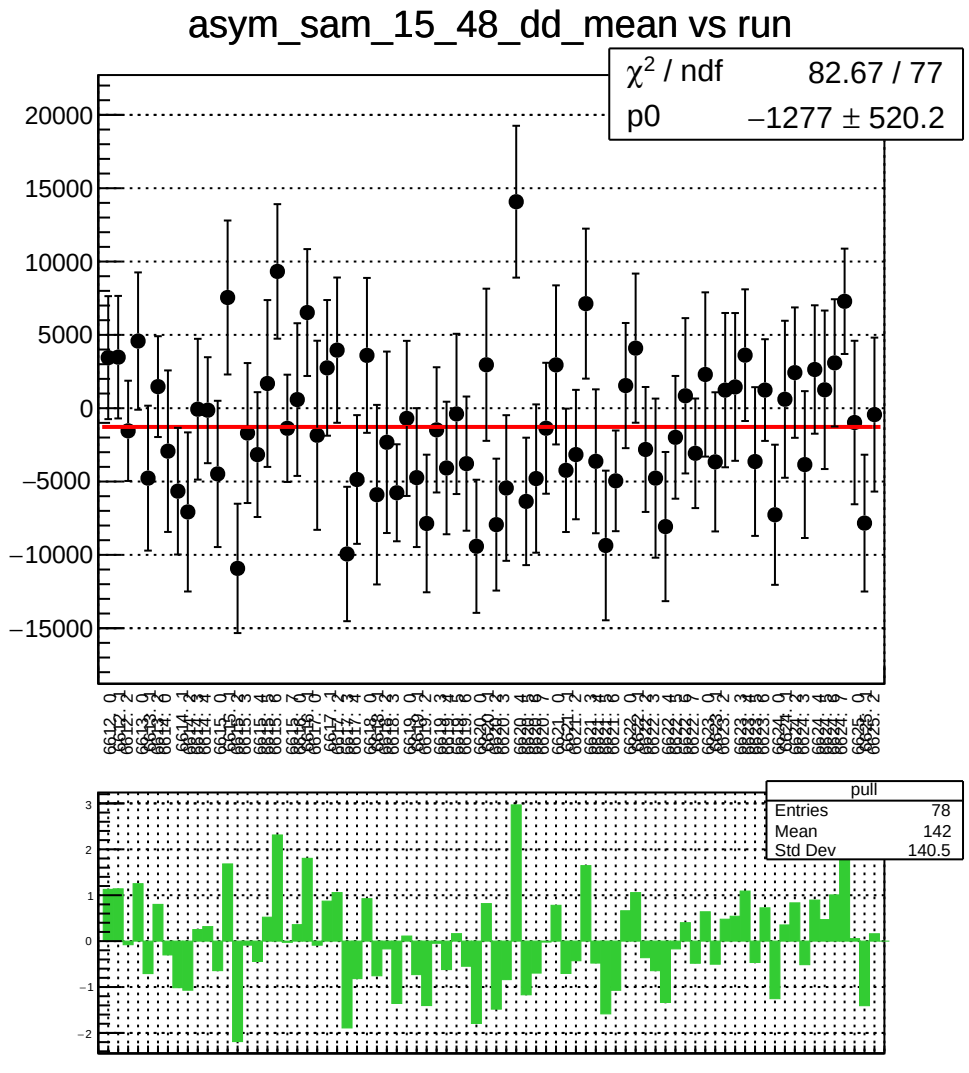

pull1D
Entries 78
Mean −0.00122
Std Dev 0.9569

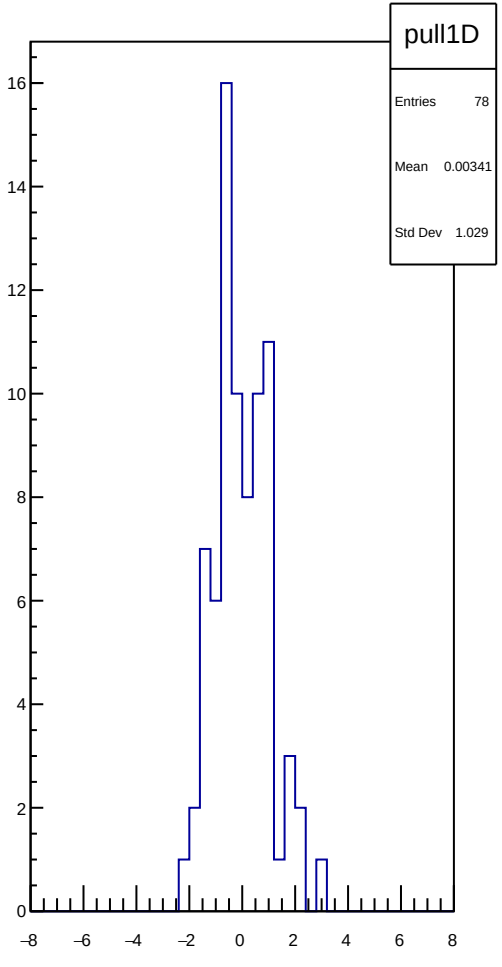

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 9445 / 77
p0 47.67 ± 0.03843
75
70
65
60
55
50
45
40

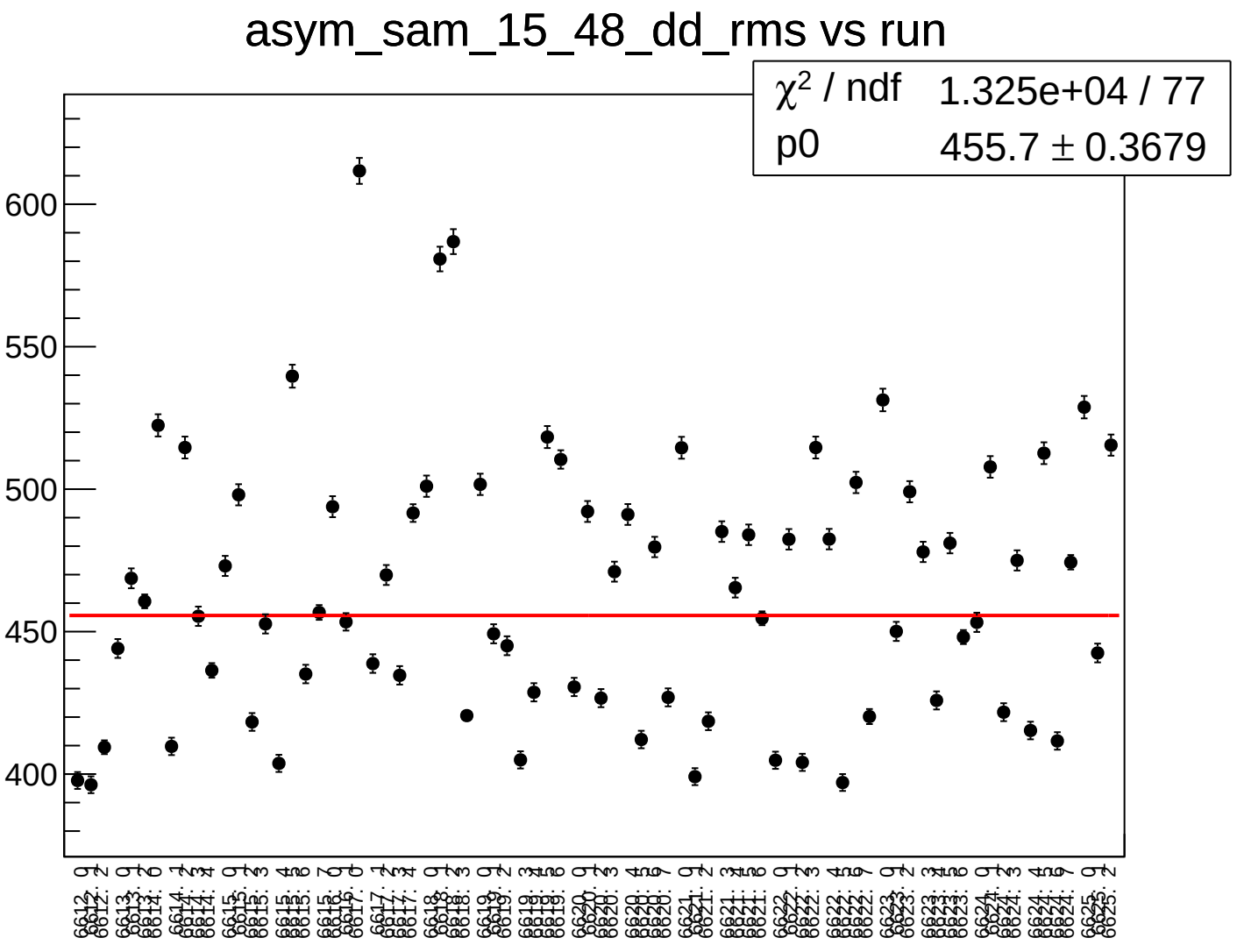

asym_sam_15_48_dd_correction_mean vs run
χ^2 / ndf 83.62 / 77
p0 1259 ± 517.4
pull
Entries 78
Mean 108.1
Std Dev 142.7

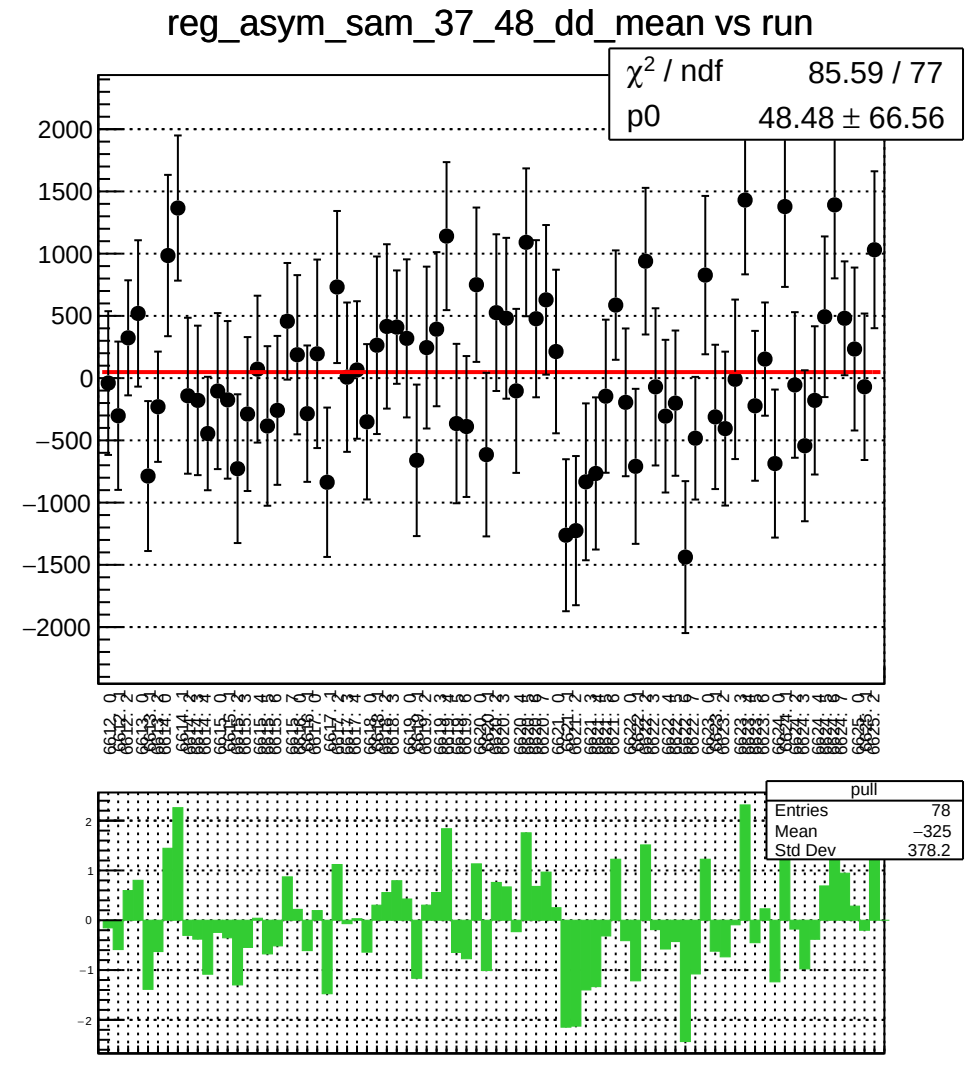

pull1D
Entries 78
Mean −0.004005
Std Dev 1.035

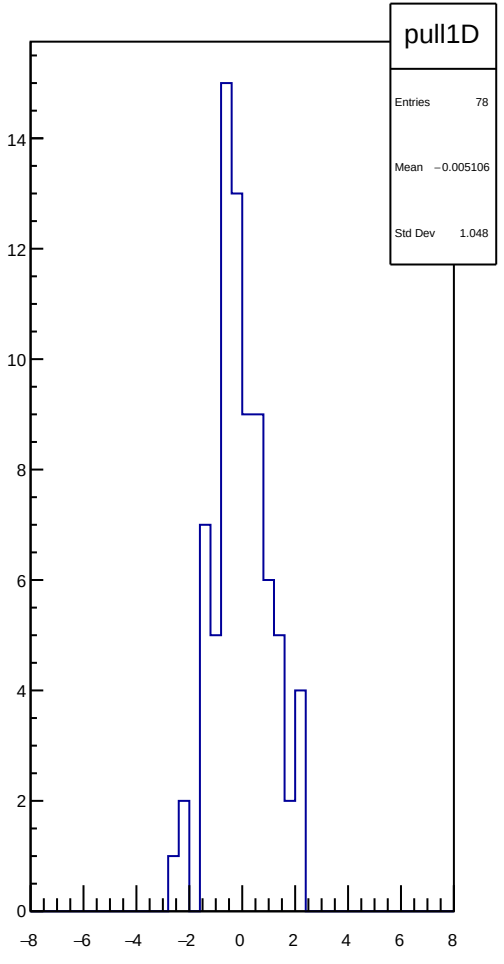

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1.336e+04 / 77
p0 453.1 ± 0.3658
600
550
500
450
400

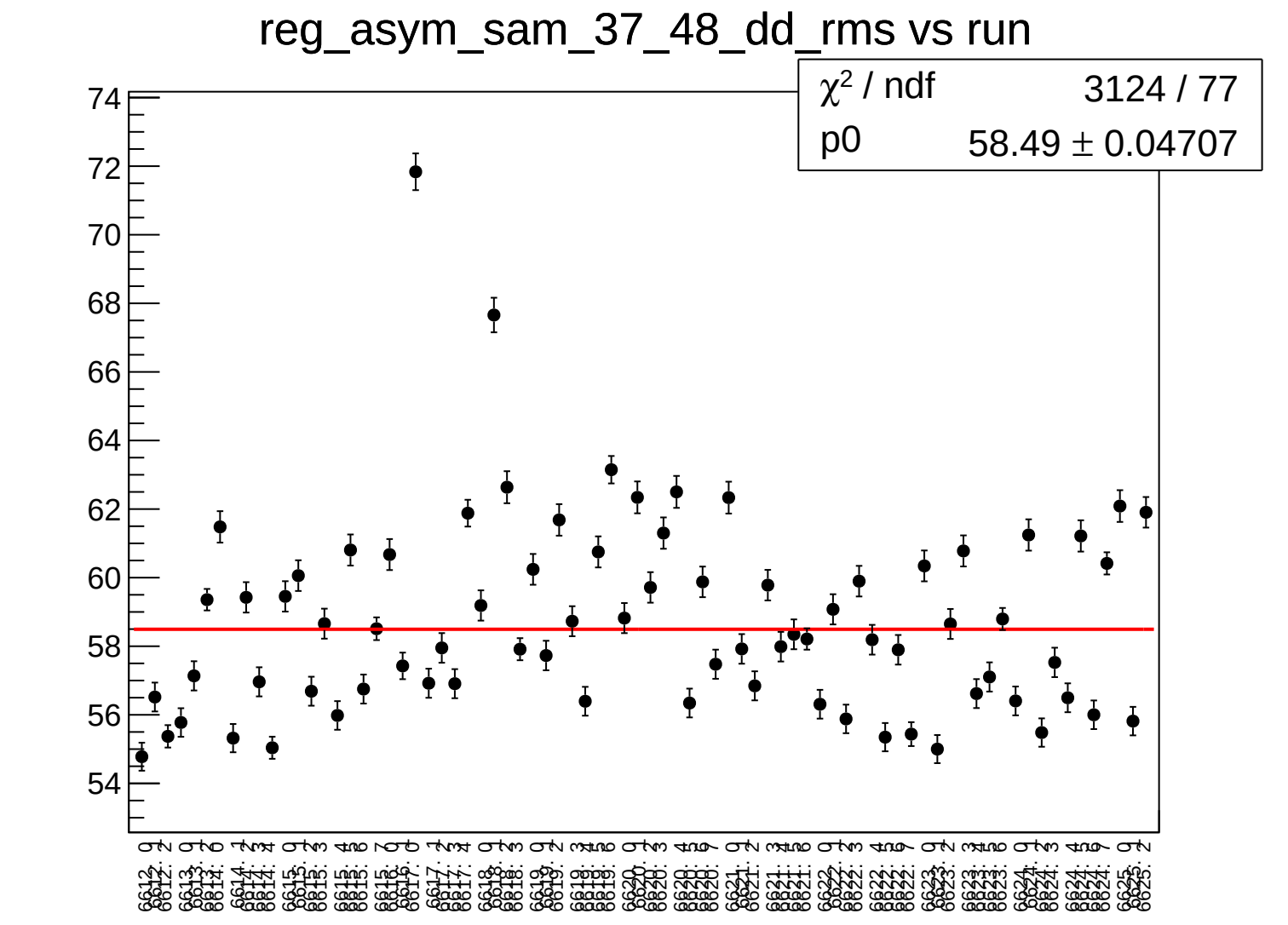

asym_sam_15_48_dd_mean vs run
χ² / ndf 82.67 / 77
p0 −1277 ± 520.2
pull
Entries 78
Mean 142
Std Dev 140.5

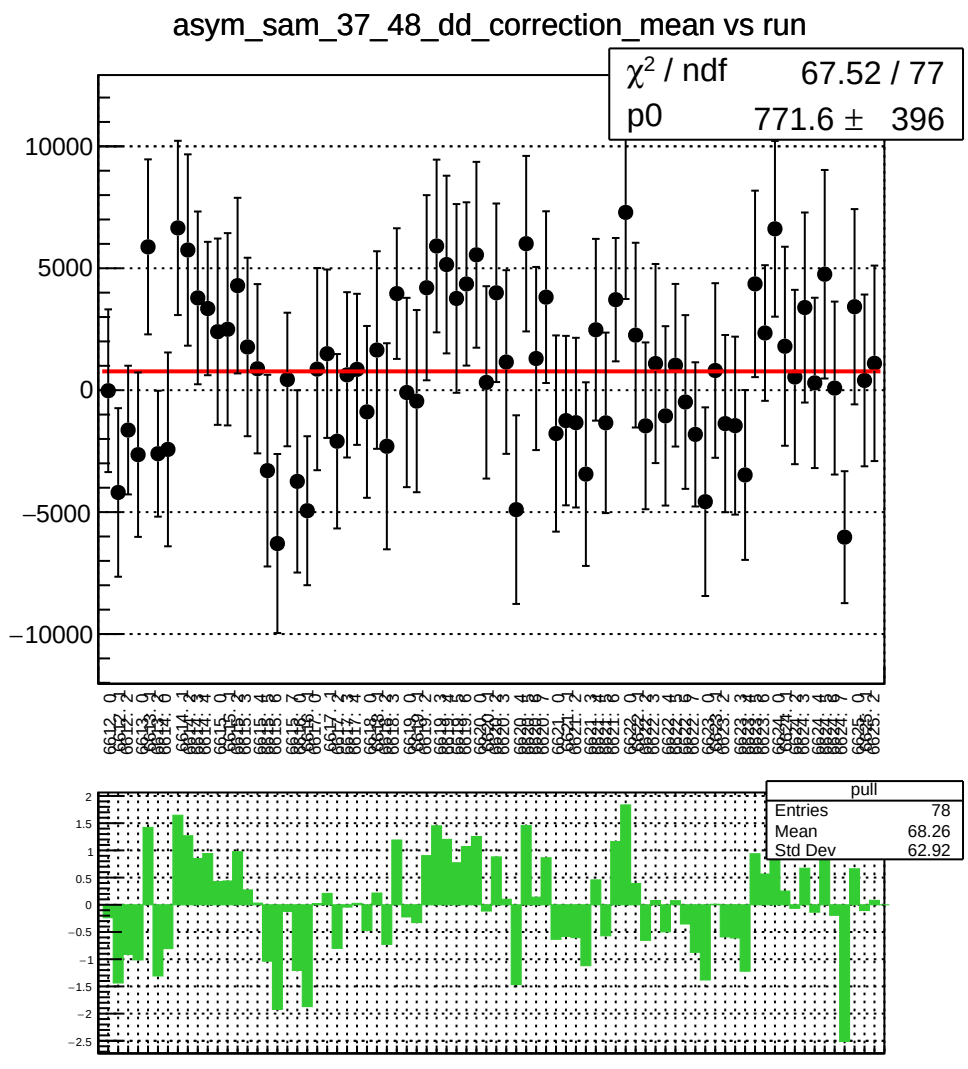

pull1D
Entries 78
Mean 0.00341
Std Dev 1.029

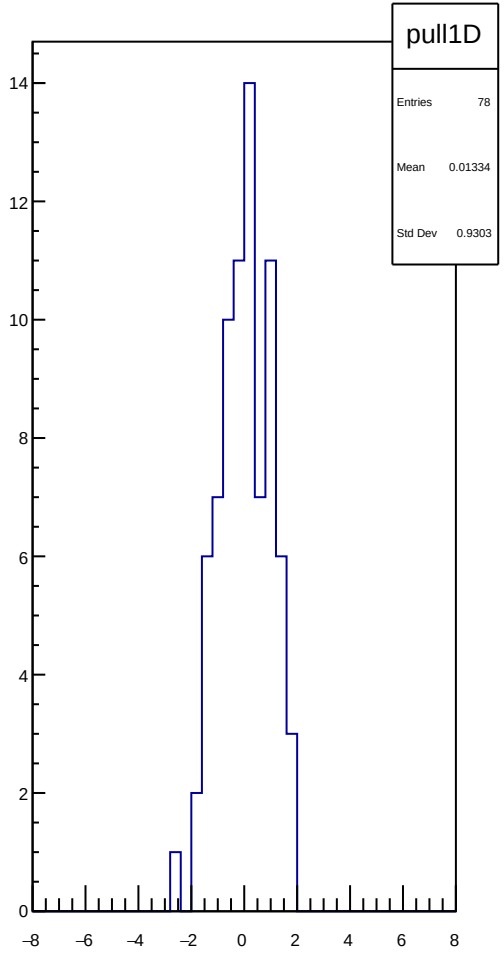

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.325e+04 / 77
p0 455.7 ± 0.3679
600
550
500
450
400

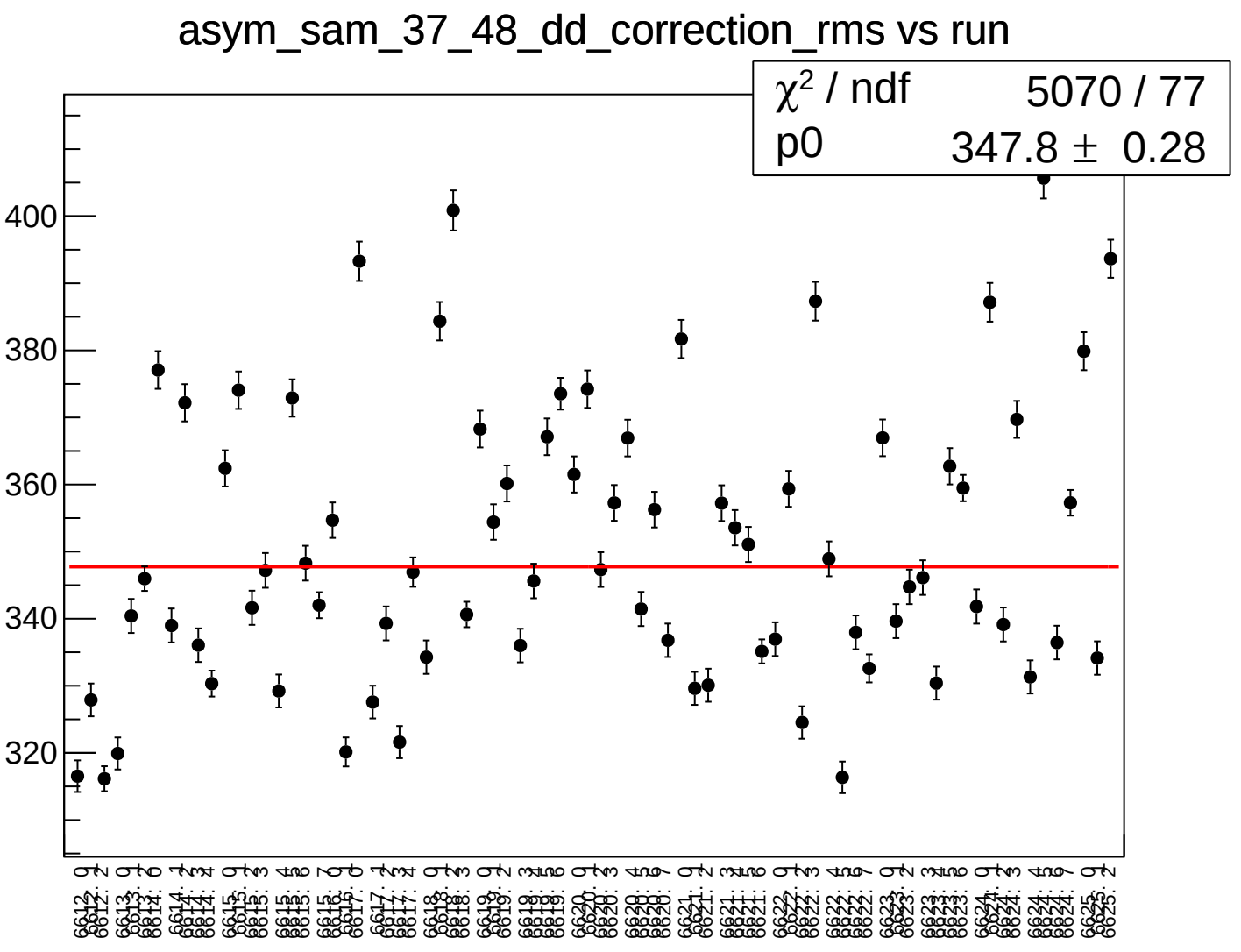

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.59 / 77
p0 48.48 ± 66.56
pull
Entries 78
Mean −325
Std Dev 378.2

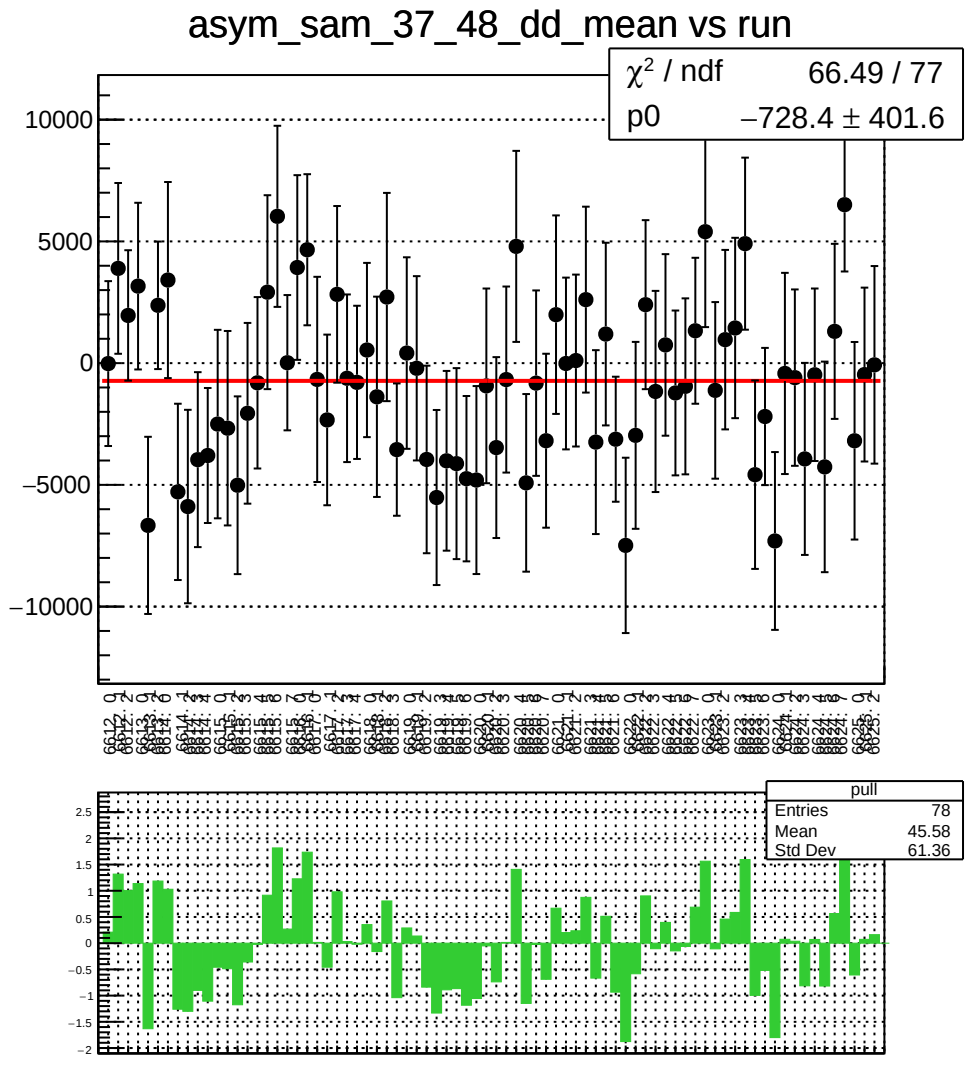

pull1D
Entries 78
Mean −0.005106
Std Dev 1.048

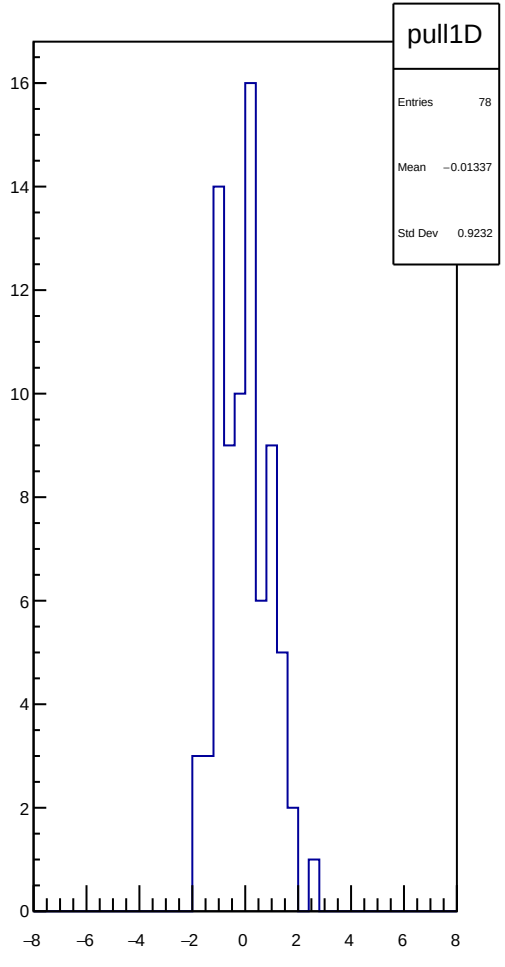

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3124 / 77
p0 58.49 ± 0.04707
74
72
70
68
66
64
62
60
58
56
54

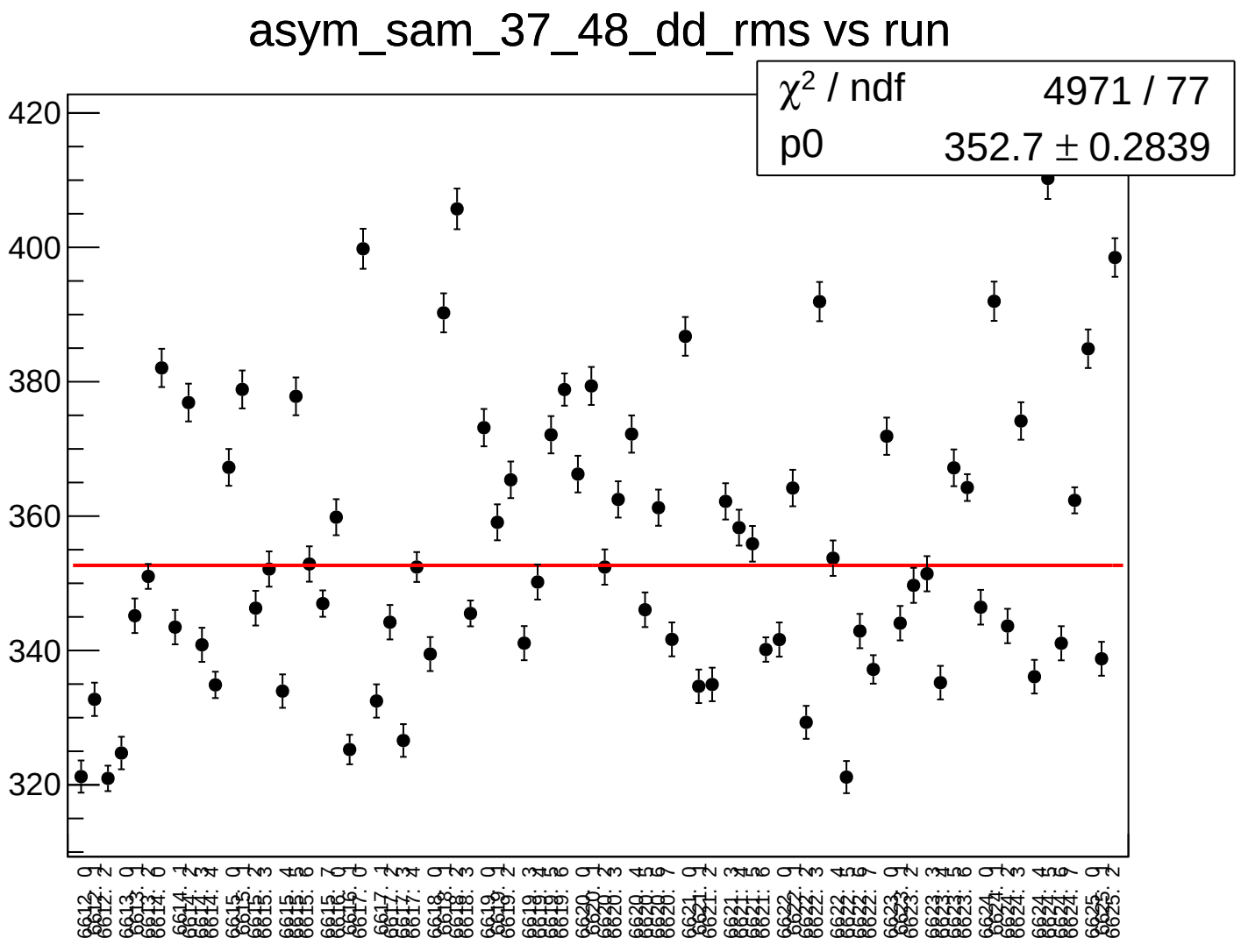

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 67.52 / 77
p0 771.6 ± 396
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 68.26
Std Dev 62.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

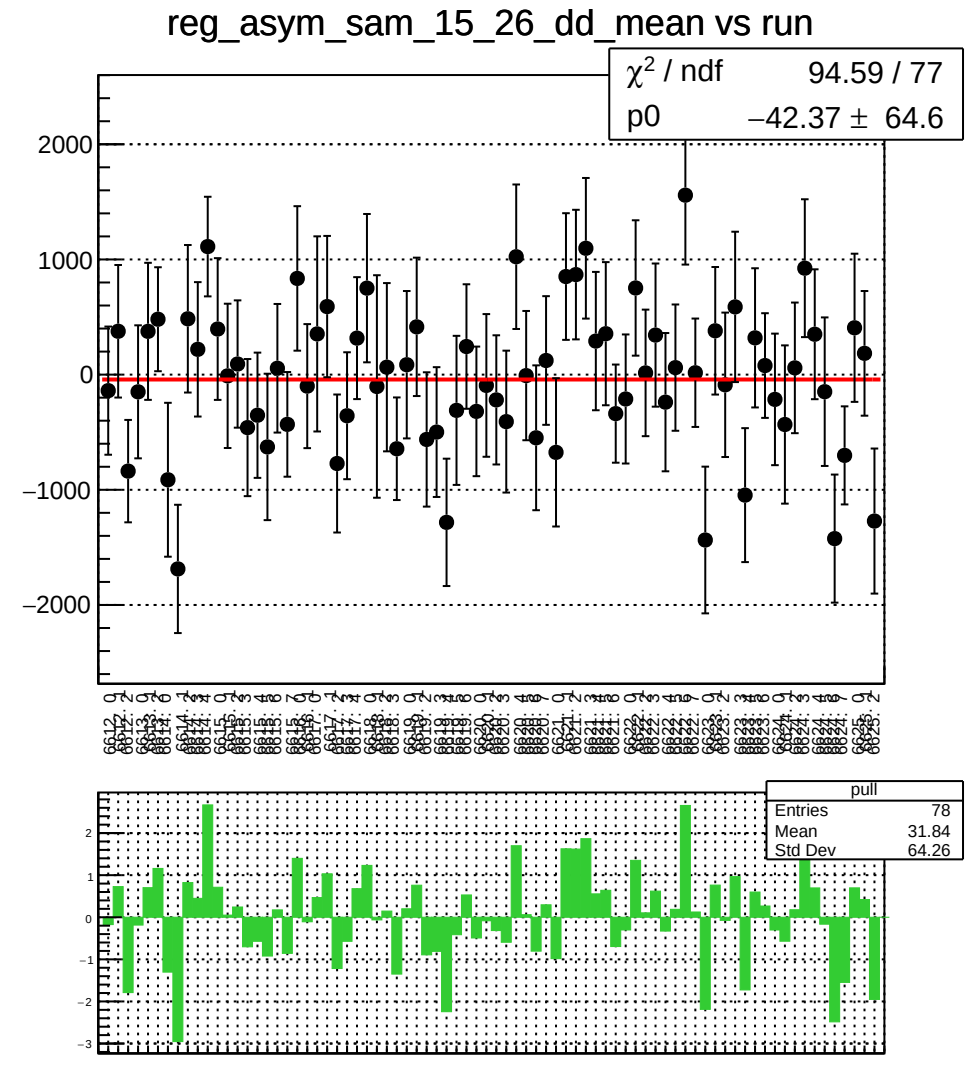

pull1D
Entries 78
Mean 0.01334
Std Dev 0.9303
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

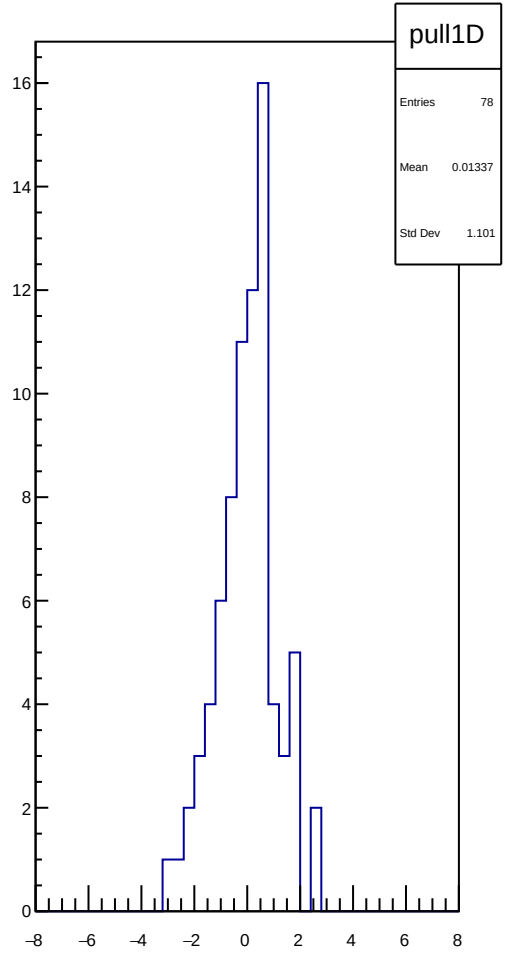

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 5070 / 77
p0 347.8 ± 0.28
400
380
360
340
320

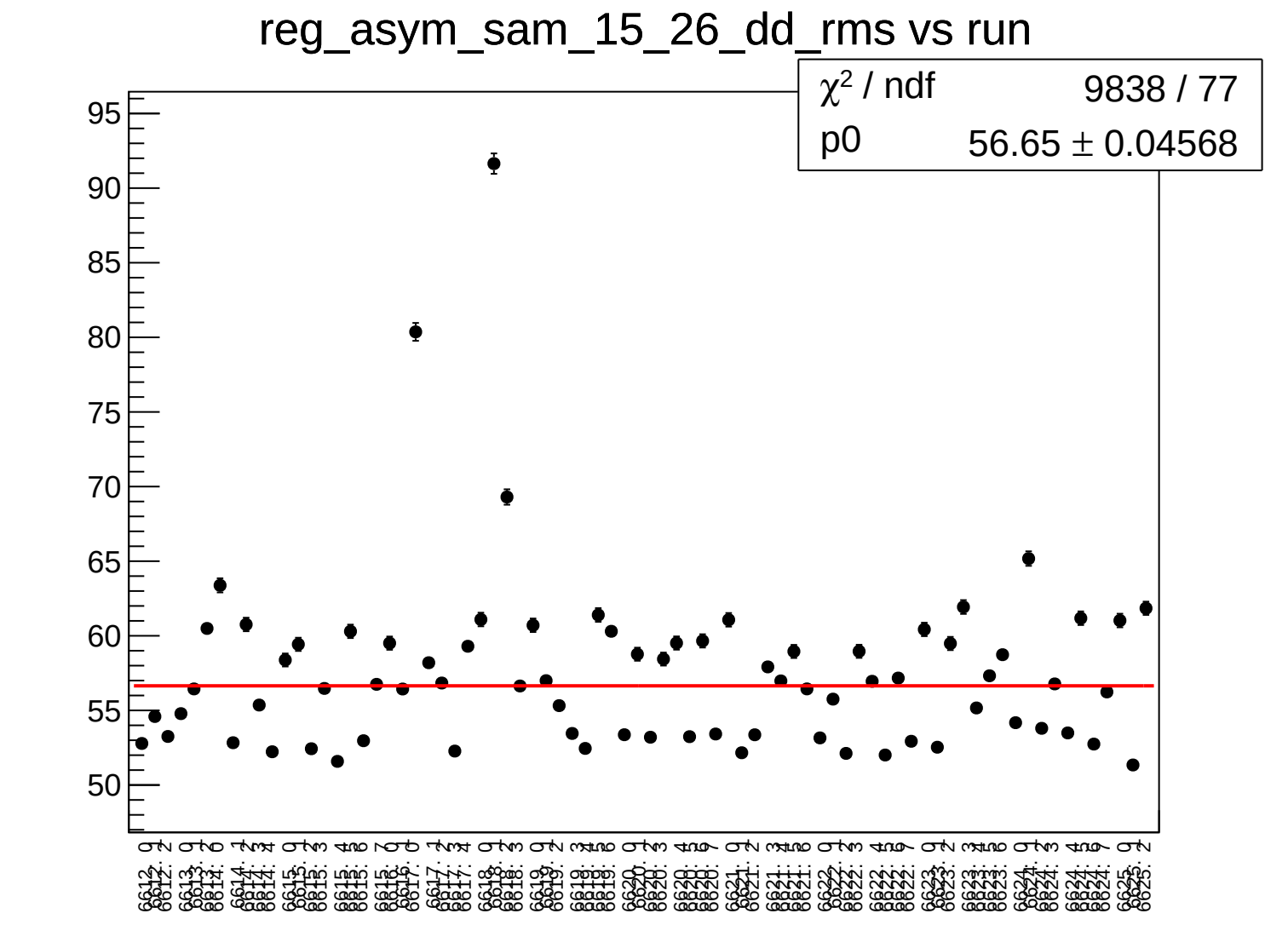

asym_sam_37_48_dd_mean vs run
χ² / ndf 66.49 / 77
p0 −728.4 ± 401.6
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 45.58
Std Dev 61.36
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

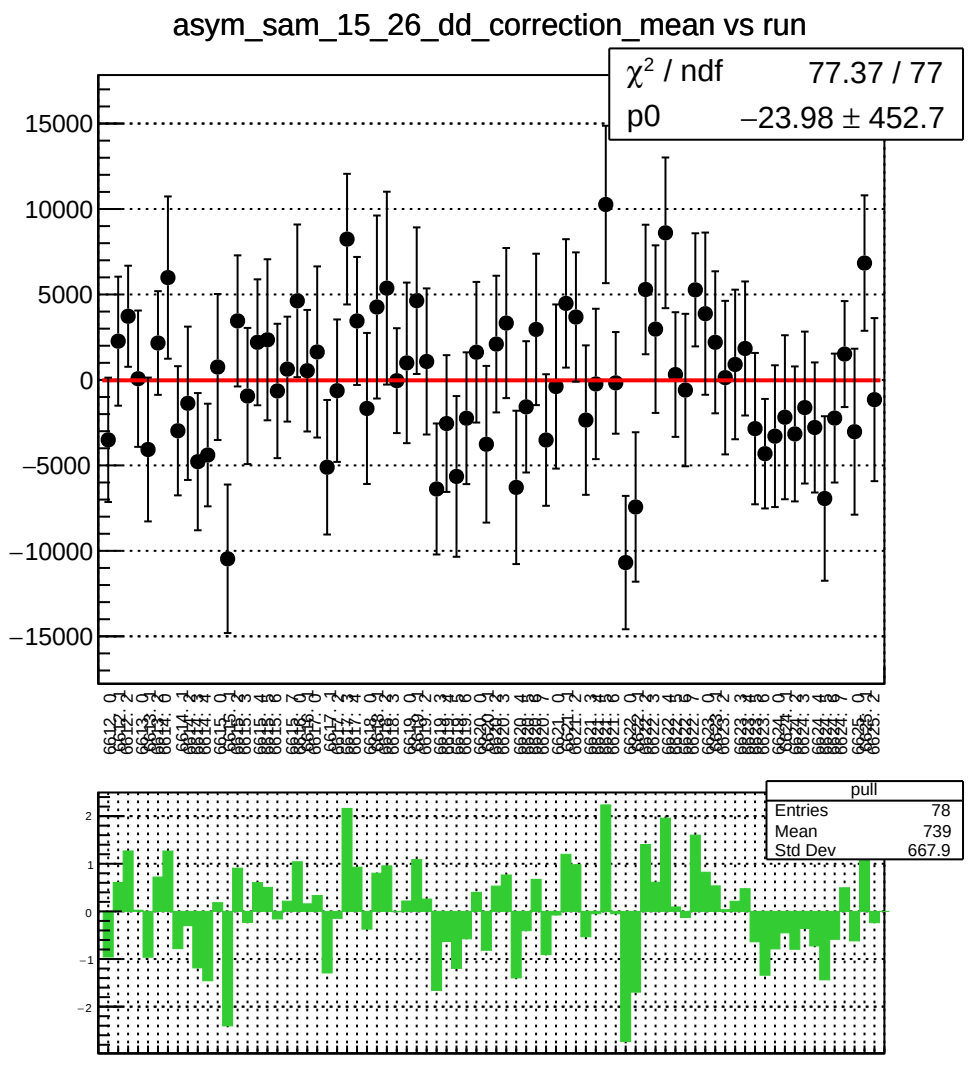

pull1D
Entries 78
Mean −0.01337
Std Dev 0.9232
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

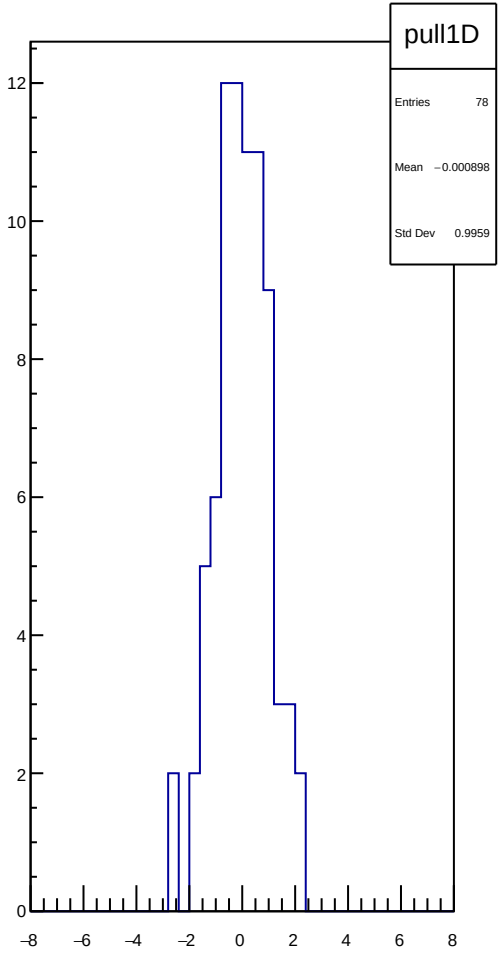

asym_sam_37_48_dd_rms vs run
χ² / ndf 4971 / 77
p0 352.7 ± 0.2839
420
400
380
360
340
320

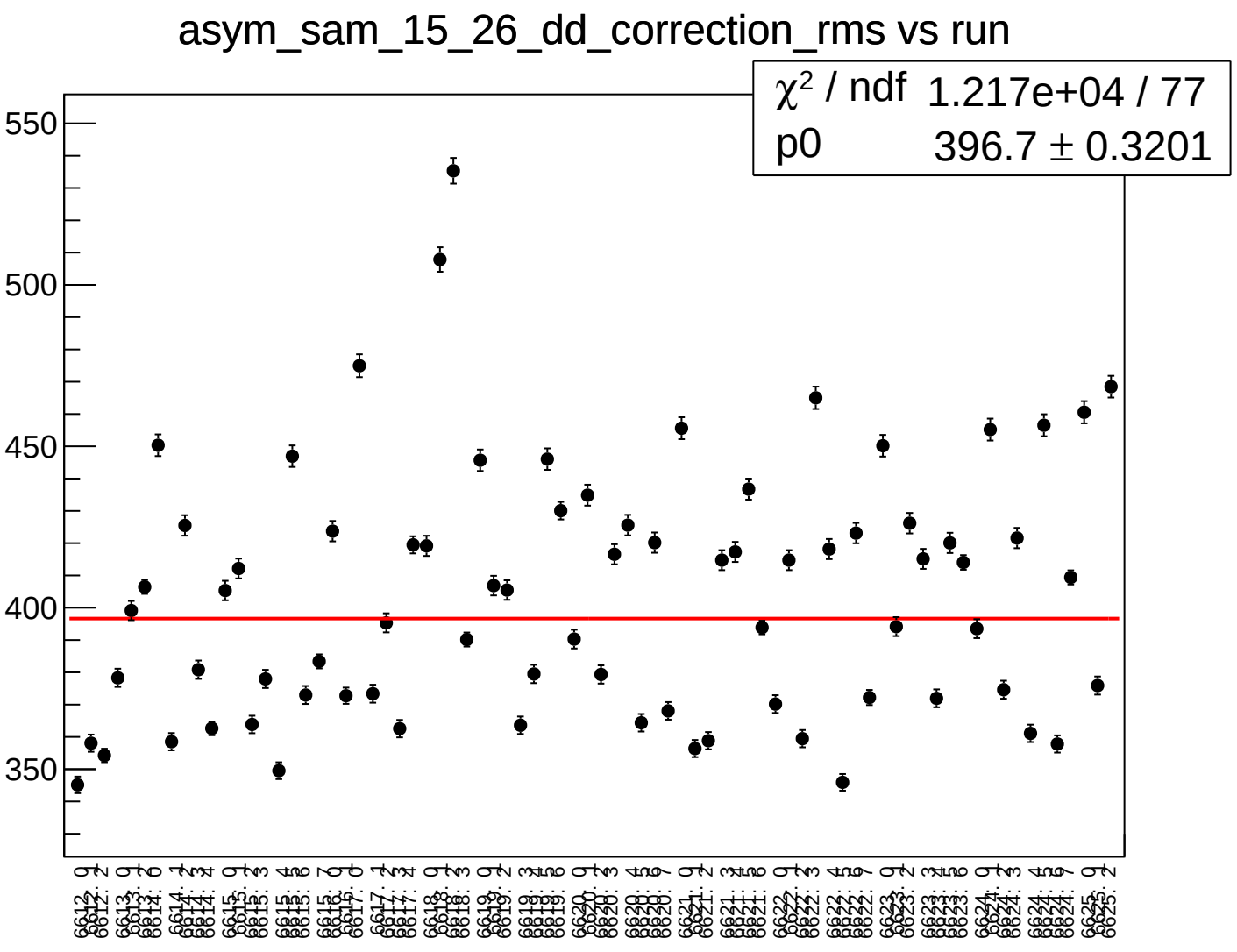

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.59 / 77
p0 −42.37 ± 64.6
2000
1000
0
−1000
−2000
pull
Entries 78
Mean 31.84
Std Dev 64.26
2
1
0
−1
−2
−3

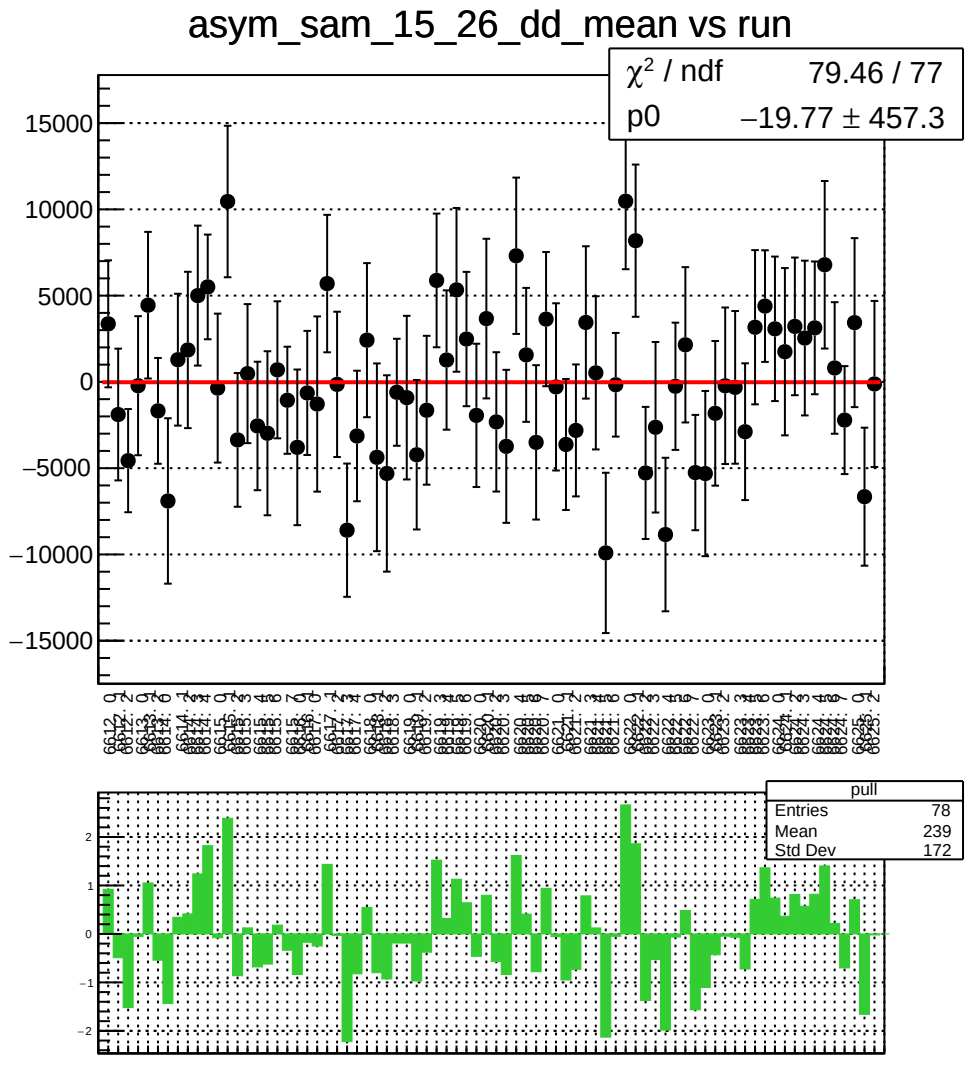

pull1D
Entries 78
Mean 0.01337
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

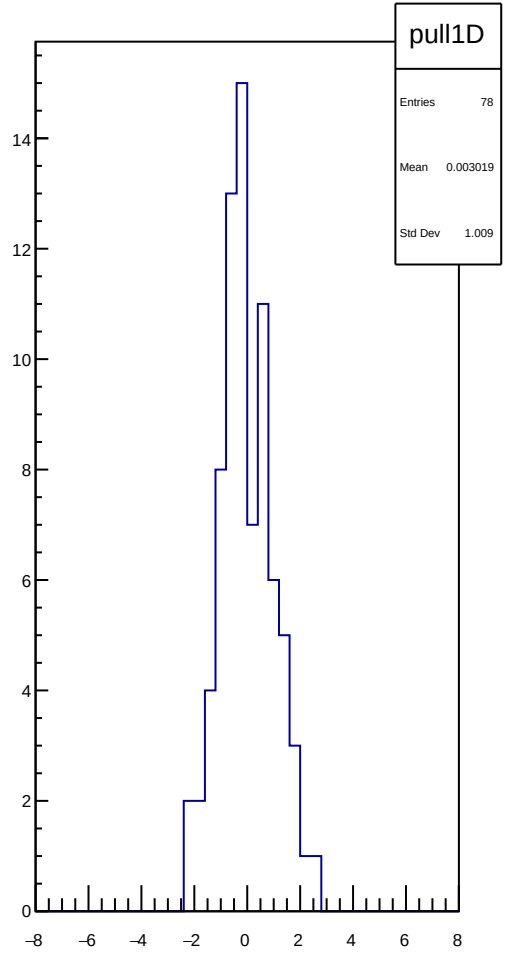

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 9838 / 77
p0 56.65 ± 0.04568
95
90
85
80
75
70
65
60
55
50

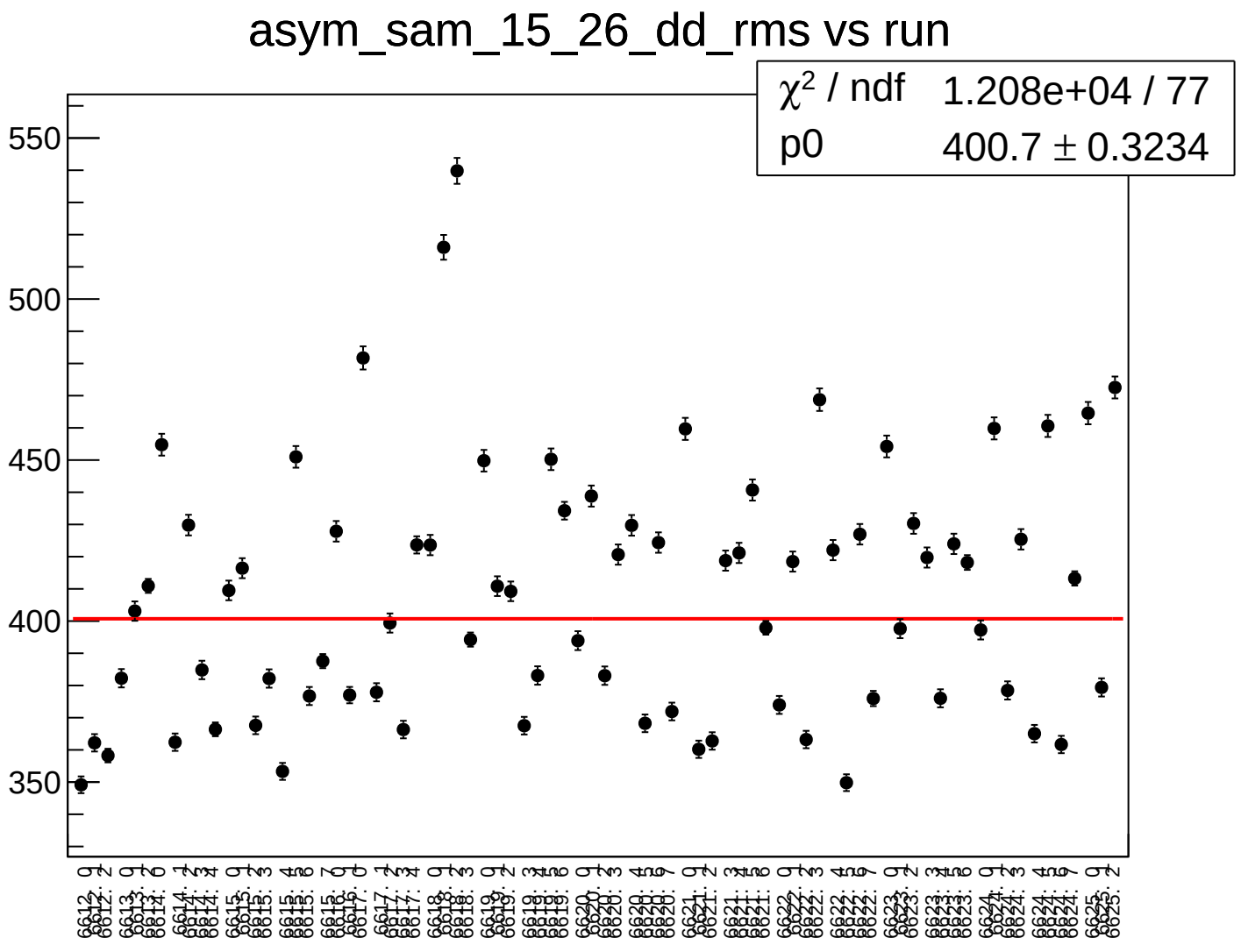

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 77.37 / 77
p0 −23.98 ± 452.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 739
Std Dev 667.9
2
1
0
−1
−2

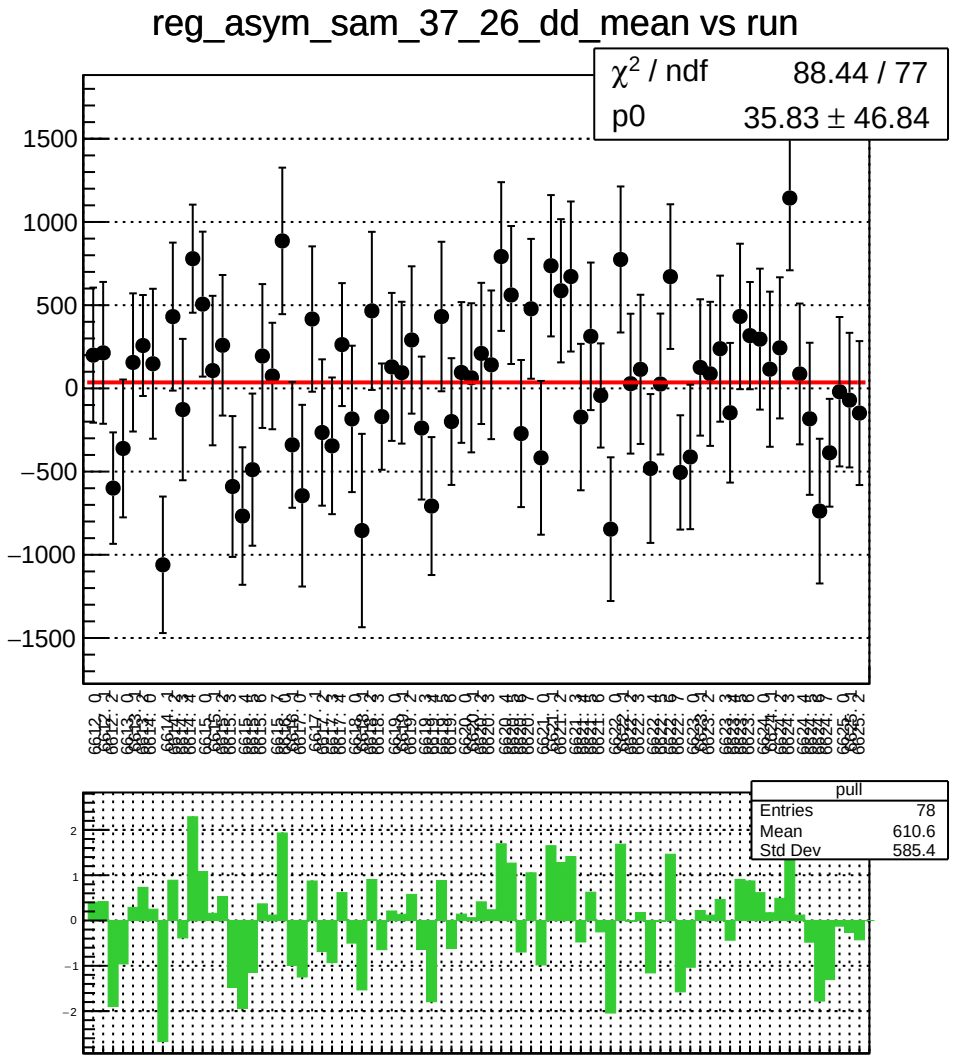

pull1D
Entries 78
Mean −0.000898
Std Dev 0.9959
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

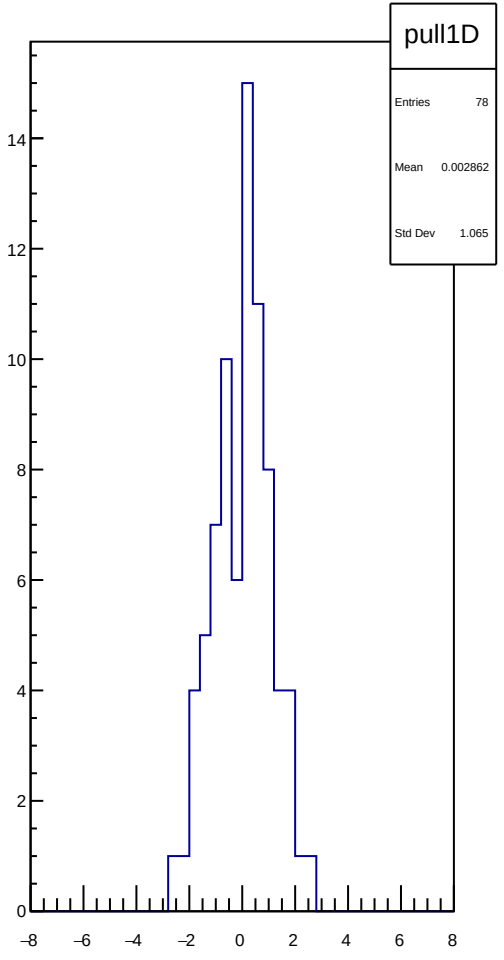

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1.217e+04 / 77
p0 396.7 ± 0.3201
550
500
450
400
350

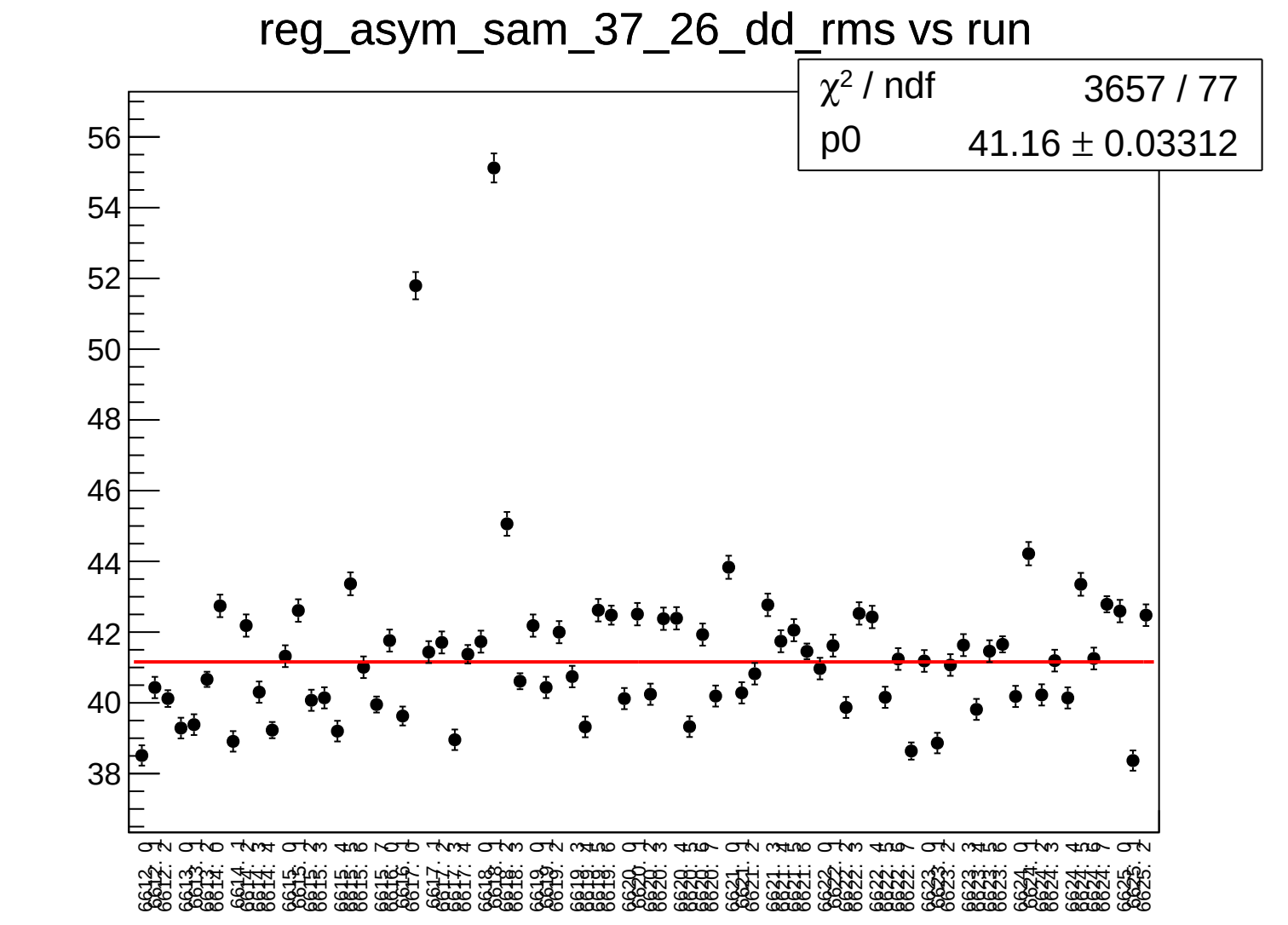

asym_sam_15_26_dd_mean vs run
χ² / ndf 79.46 / 77
p0 −19.77 ± 457.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 239
Std Dev 172
2
1
0
−1
−2

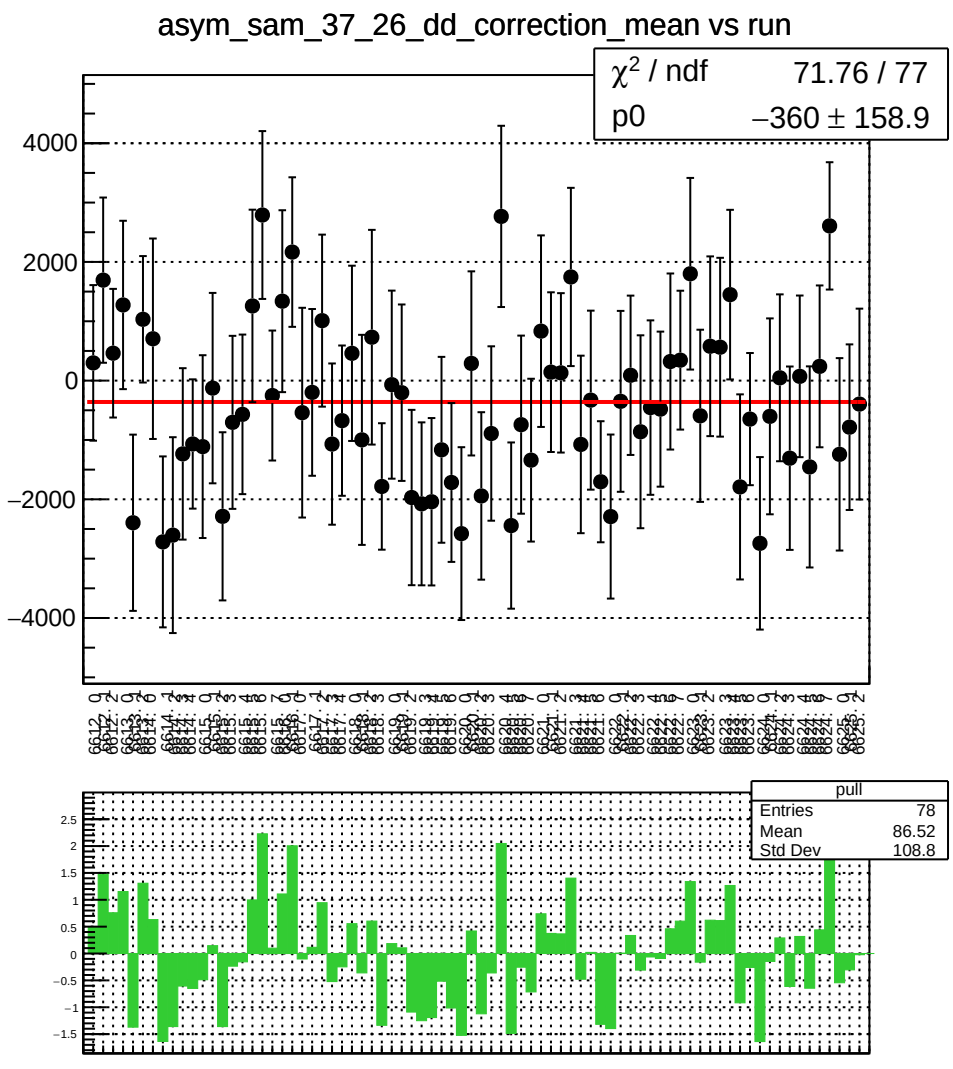

pull1D
Entries 78
Mean 0.003019
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

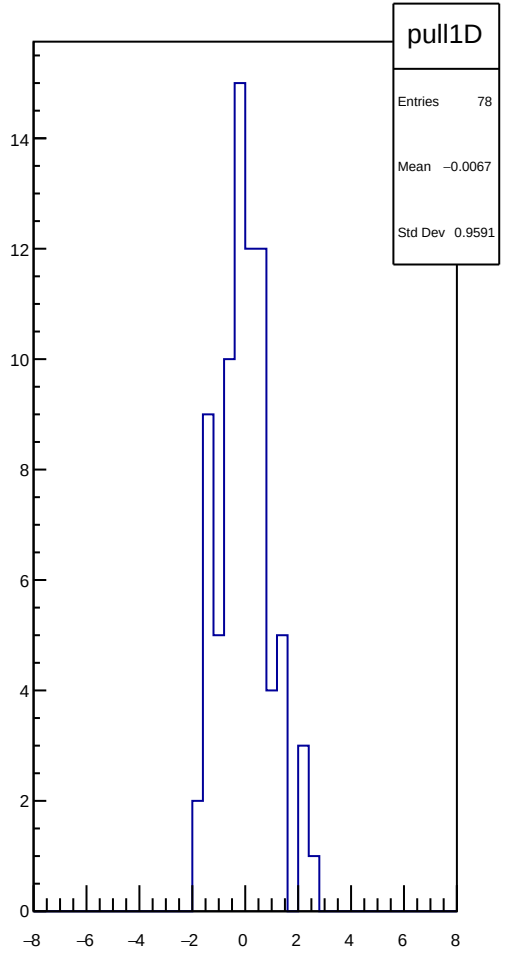

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.208e+04 / 77
p0 400.7 ± 0.3234
550
500
450
400
350

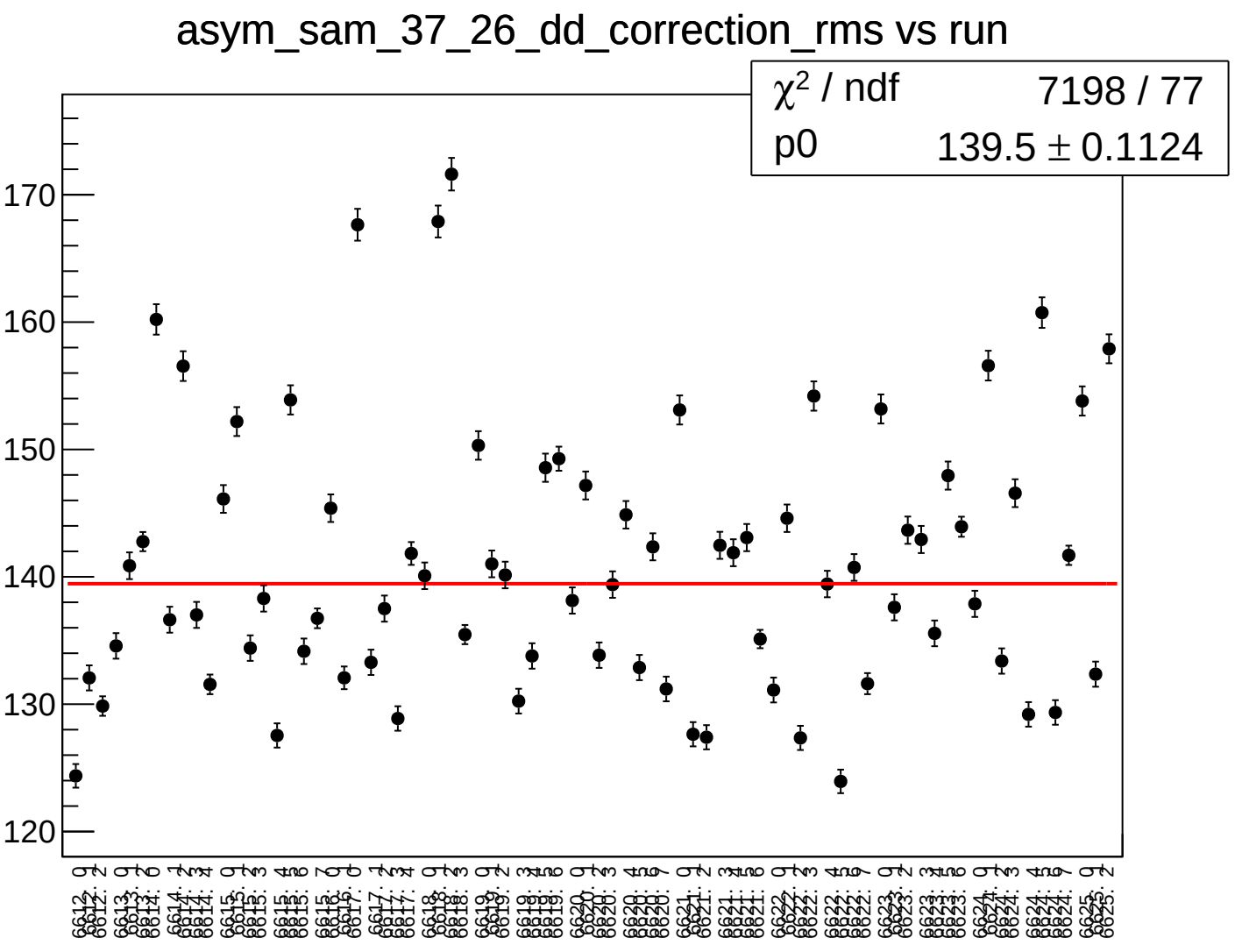

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.44 / 77
p0 35.83 ± 46.84
pull
Entries 78
Mean 610.6
Std Dev 585.4

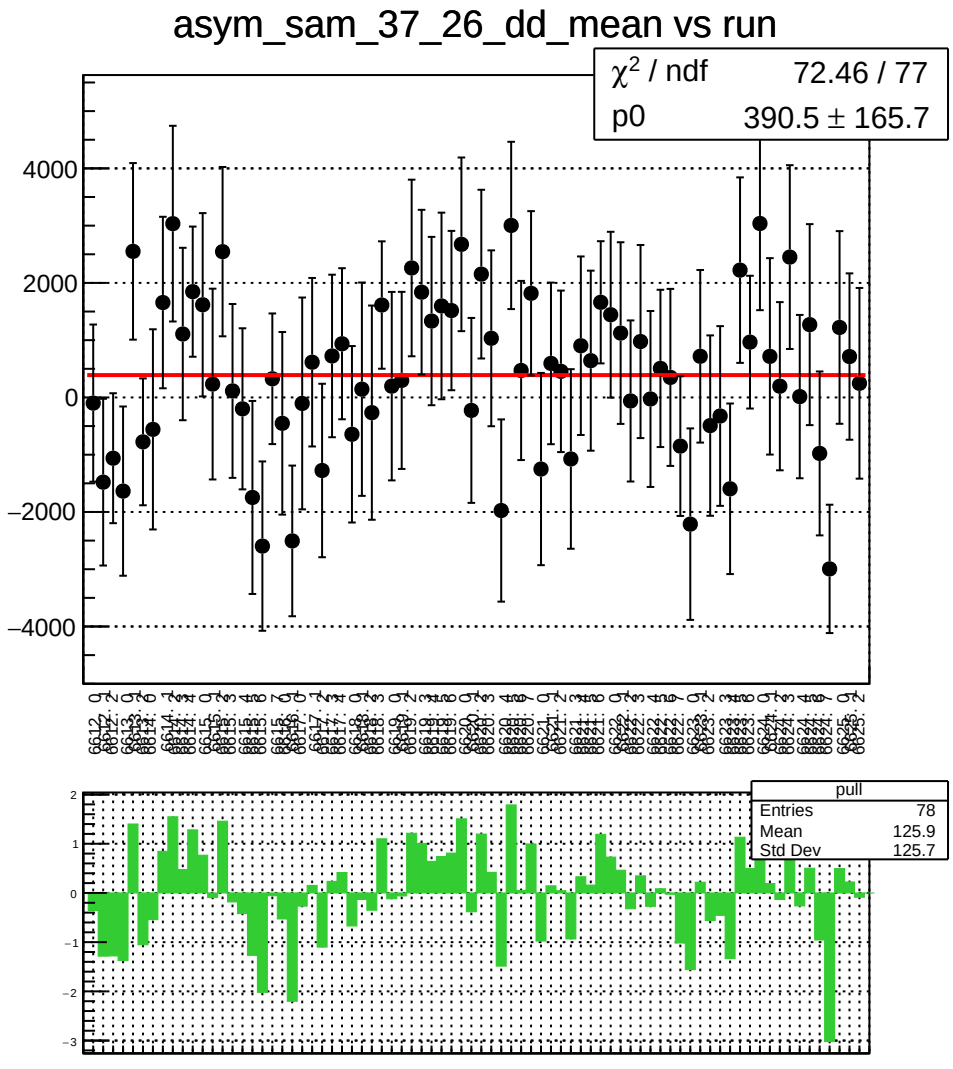

pull1D
Entries 78
Mean 0.002862
Std Dev 1.065

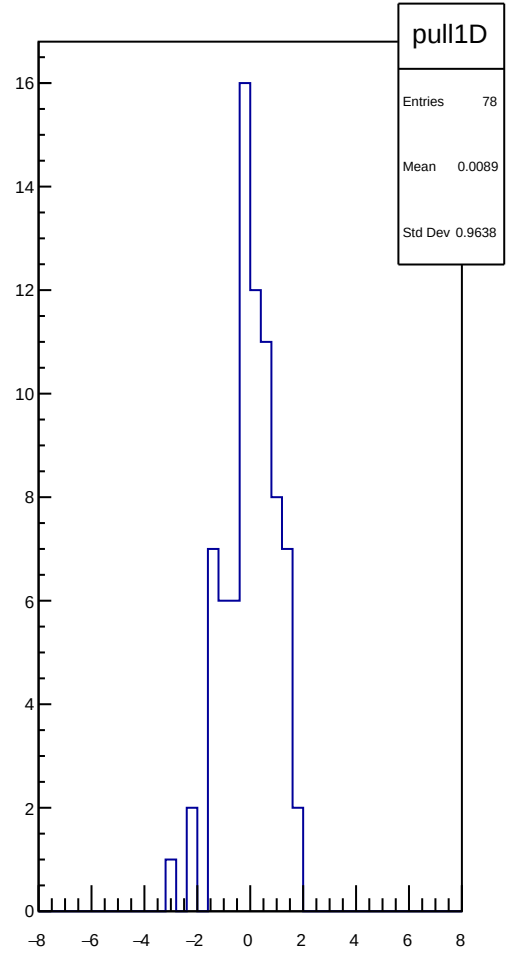

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3657 / 77
p0 41.16 ± 0.03312
56
54
52
50
48
46
44
42
40
38

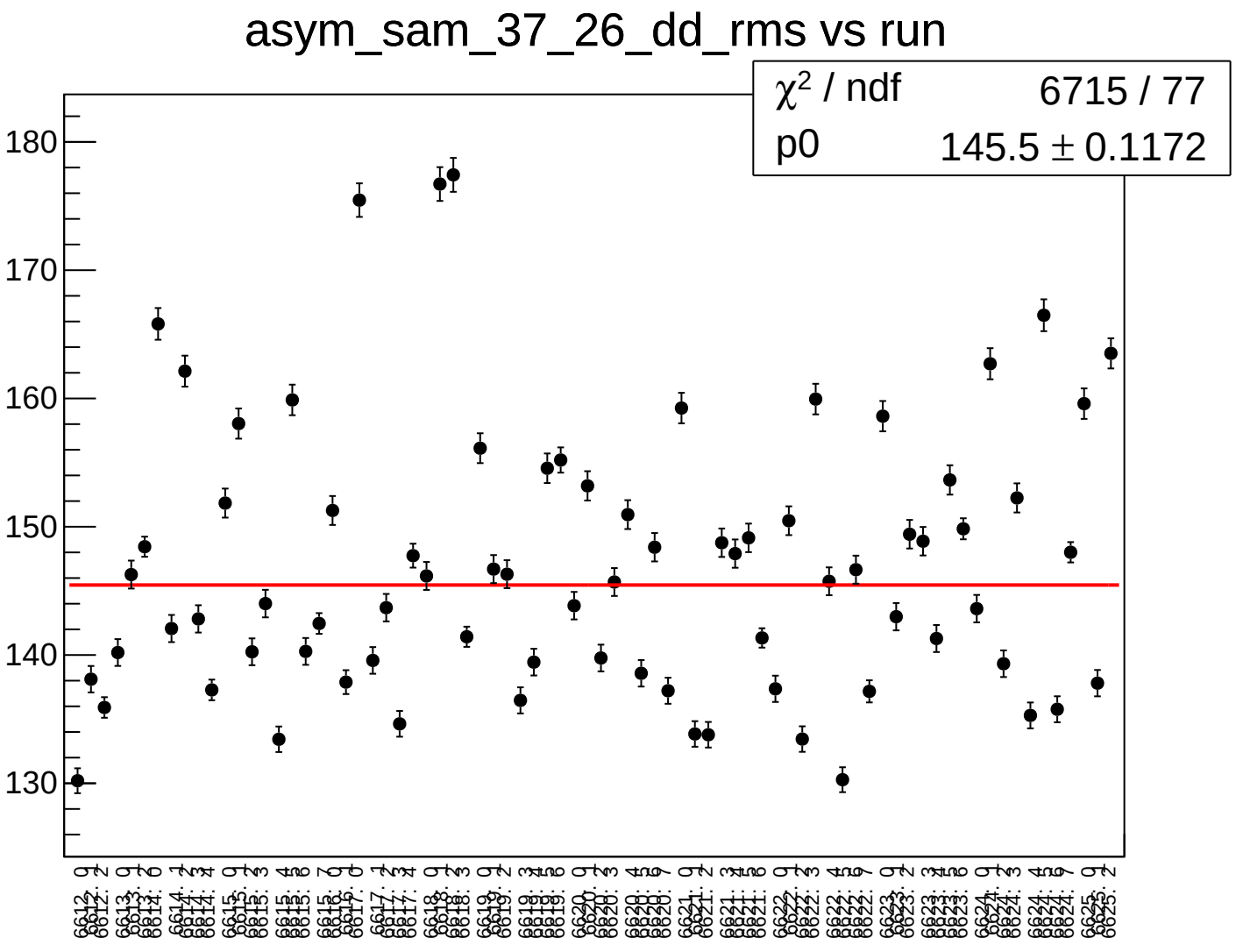

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 71.76 / 77
p0 −360 ± 158.9
4000
2000
0
−2000
−4000
pull
Entries 78
Mean 86.52
Std Dev 108.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

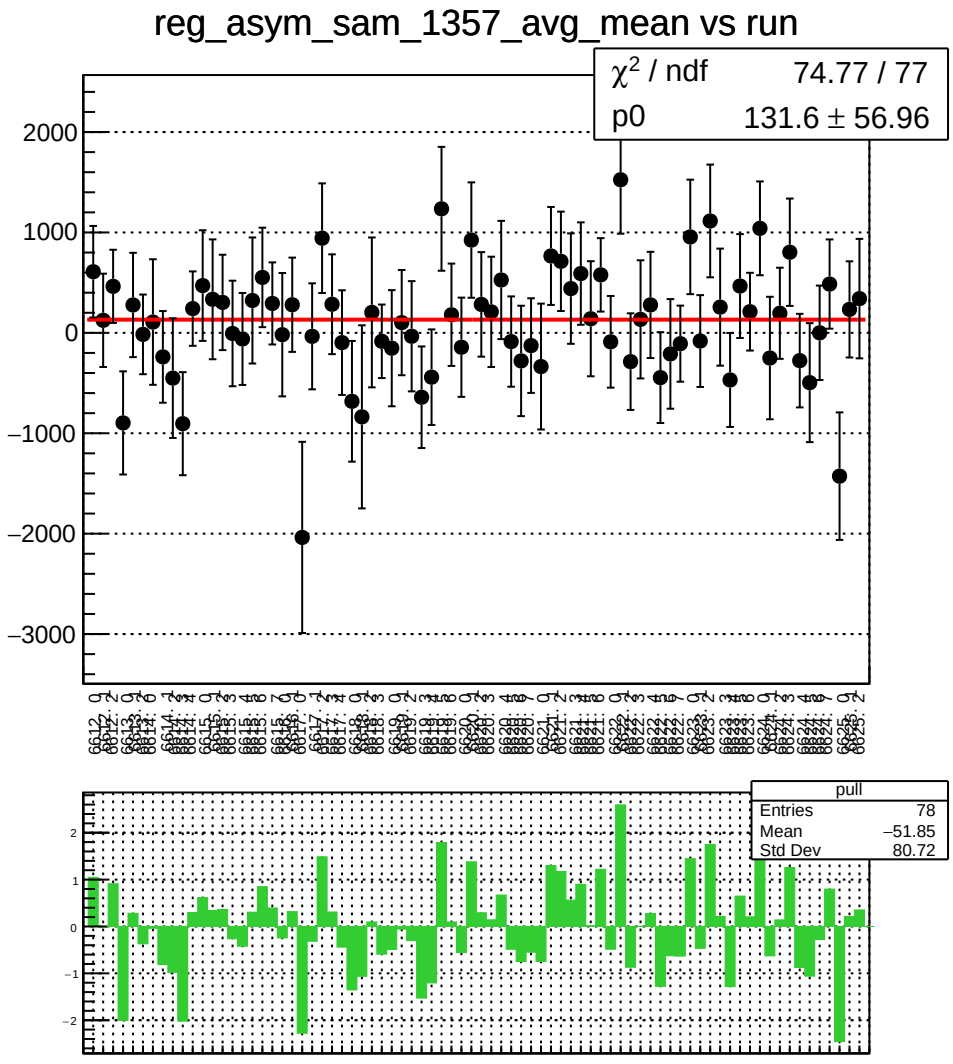

pull1D
Entries 78
Mean −0.0067
Std Dev 0.9591
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

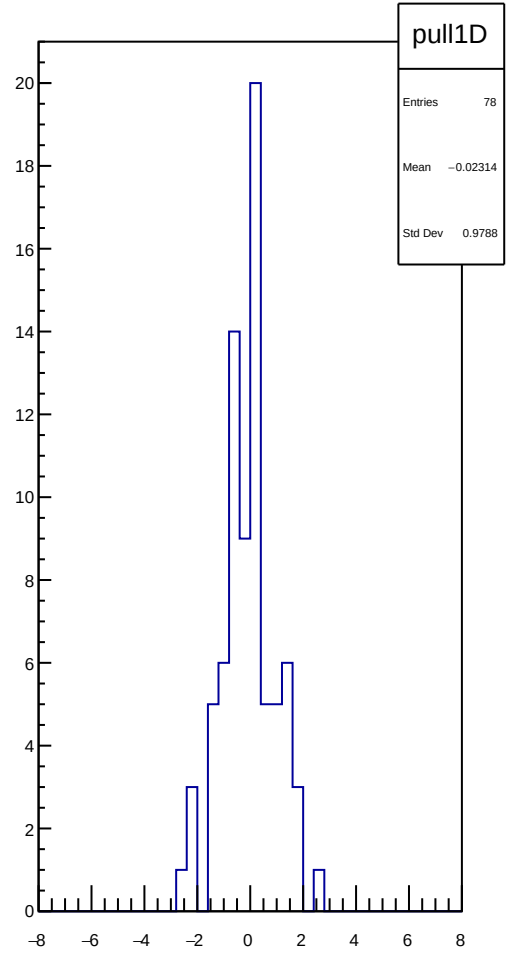

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 7198 / 77
p0 139.5 ± 0.1124
170
160
150
140
130
120

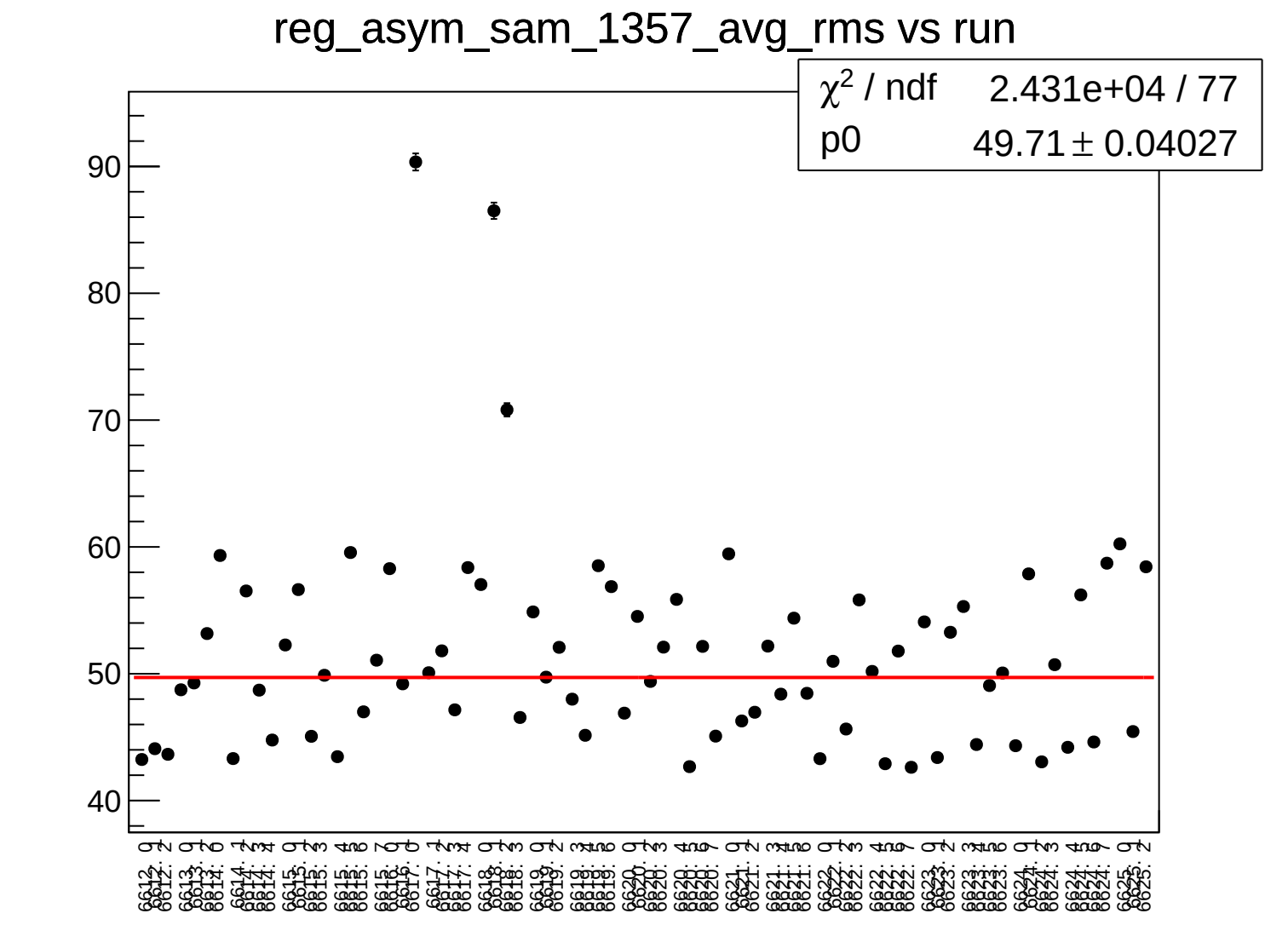

asym_sam_37_26_dd_mean vs run
χ² / ndf 72.46 / 77
p0 390.5 ± 165.7
4000
2000
0
−2000
−4000
pull
Entries 78
Mean 125.9
Std Dev 125.7
2
1
0
−1
−2
−3

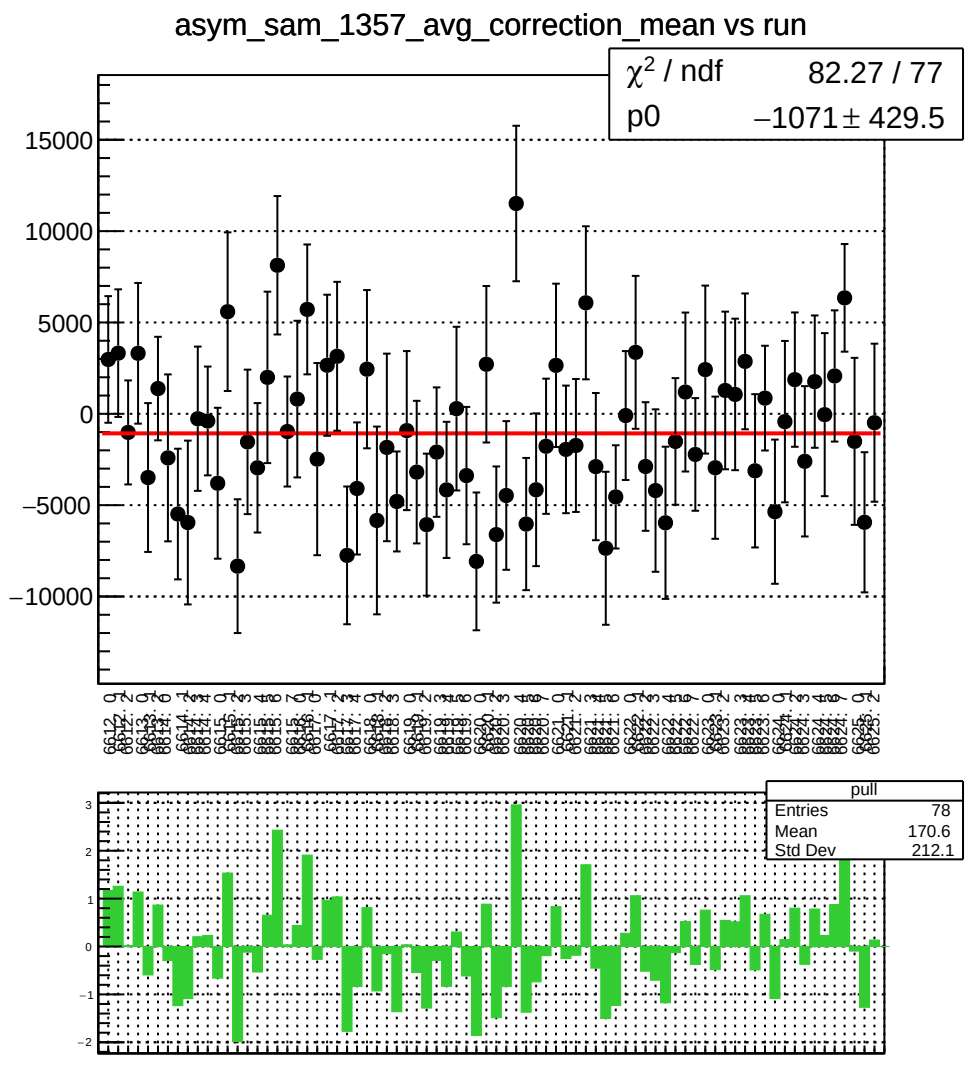

pull1D
Entries 78
Mean 0.0089
Std Dev 0.9638
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

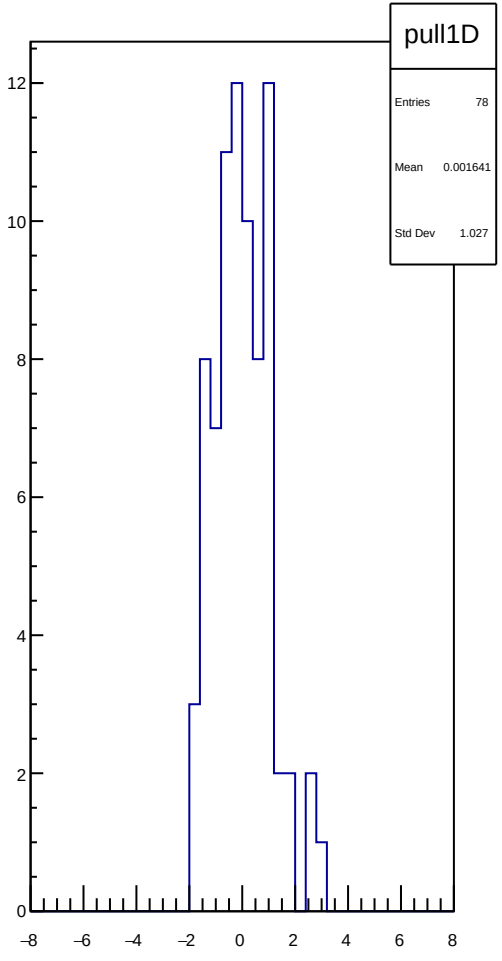

asym_sam_37_26_dd_rms vs run
χ² / ndf 6715 / 77
p0 145.5 ± 0.1172
180
170
160
150
140
130

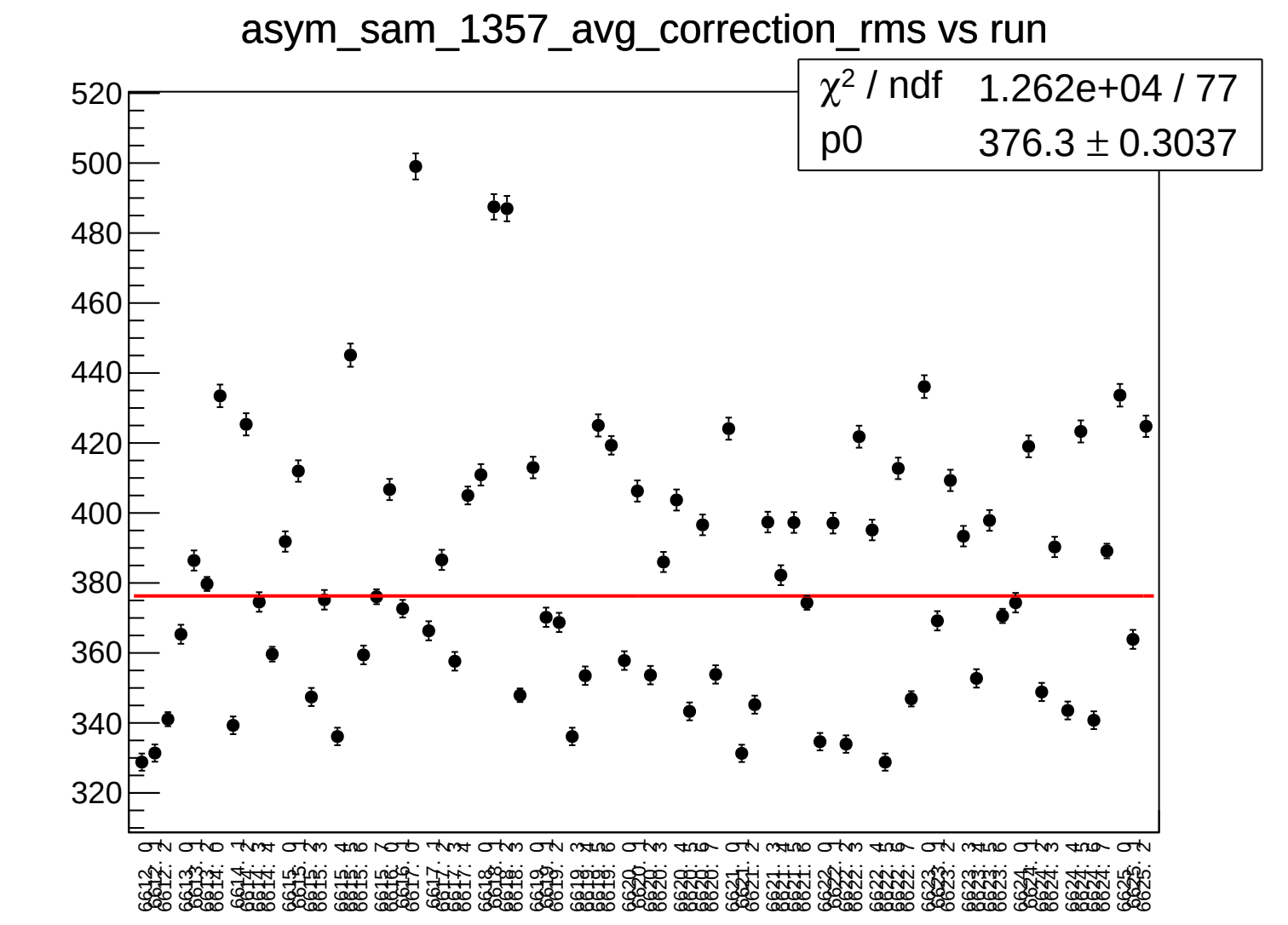

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 74.77 / 77
p0 131.6 ± 56.96
2000
1000
0
−1000
−2000
−3000
pull
Entries 78
Mean −51.85
Std Dev 80.72
2
1
0
−1
−2

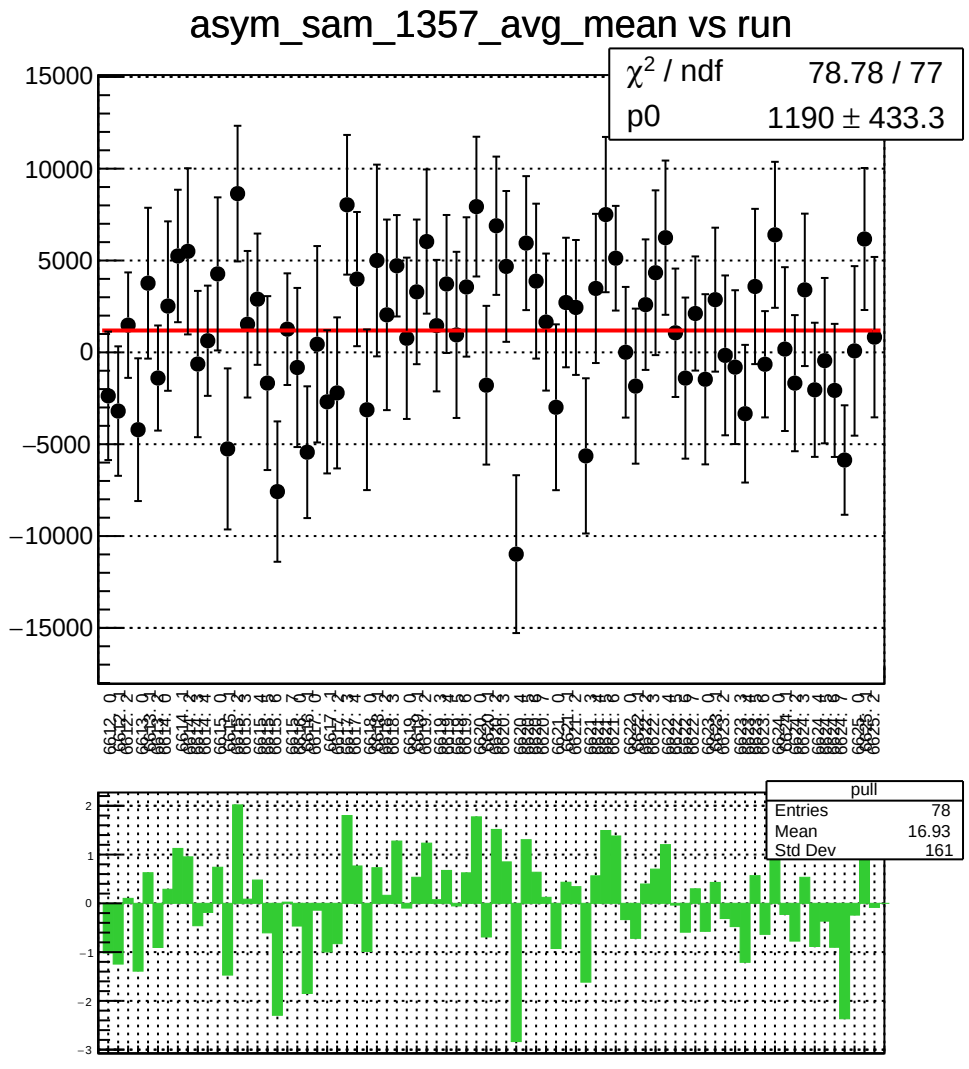

pull1D
Entries 78
Mean −0.02314
Std Dev 0.9788
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

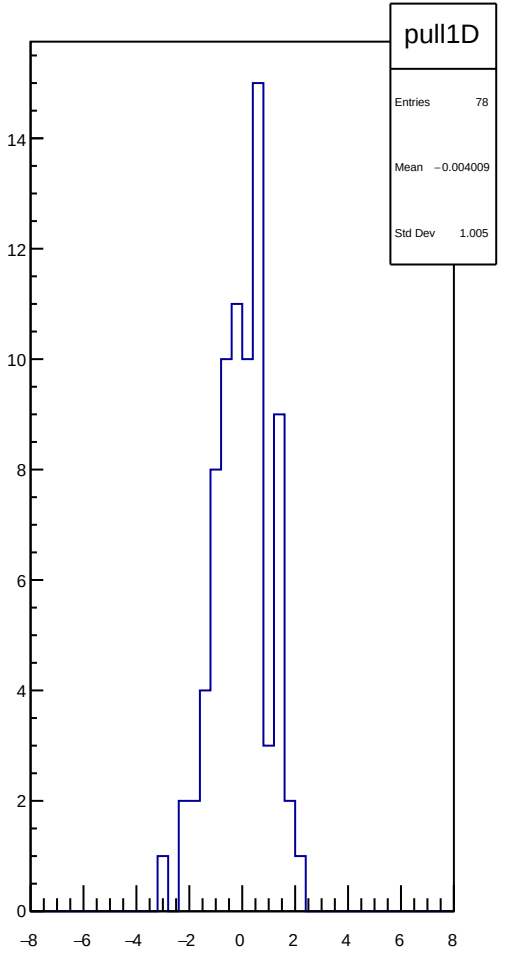

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.431e+04 / 77
p0 49.71 ± 0.04027
90
80
70
60
50
40

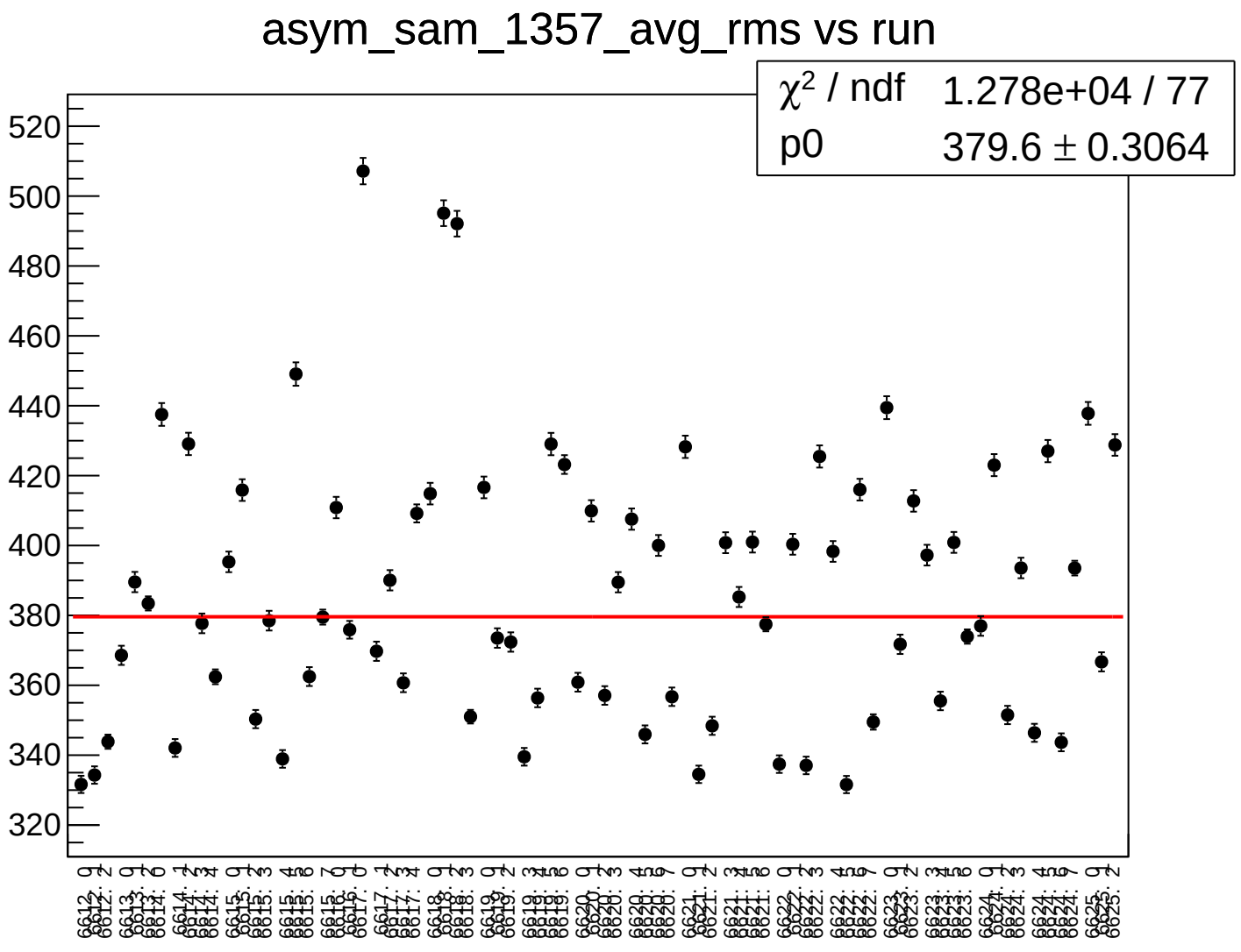

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 82.27 / 77
p0 −1071 ± 429.5
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean 170.6
Std Dev 212.1
3
2
1
0
−1
−2

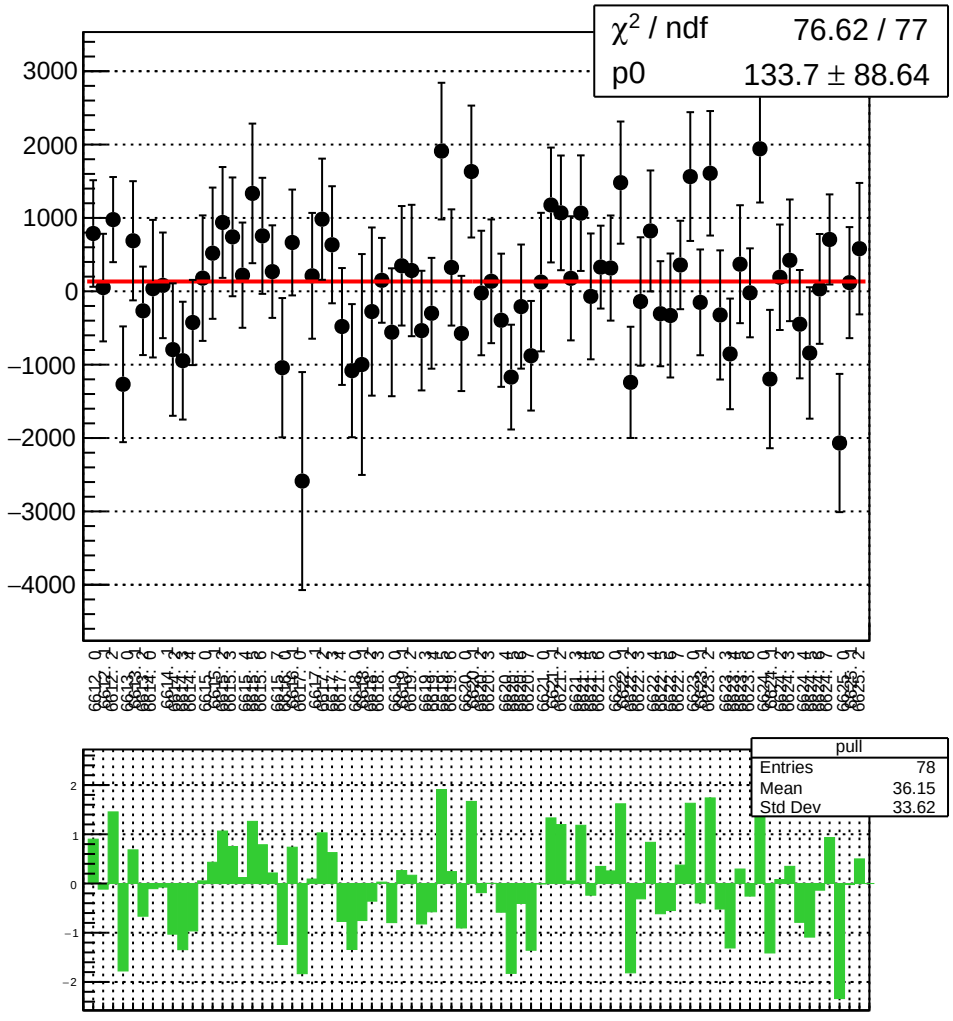

pull1D
Entries 78
Mean 0.001641
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

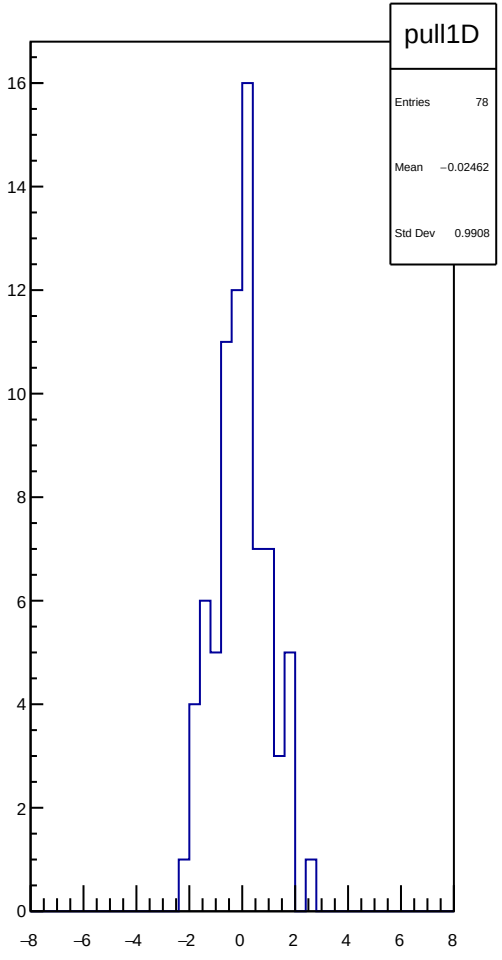

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.262e+04 / 77
p0 376.3 ± 0.3037
520
500
480
460
440
420
400
380
360
340
320

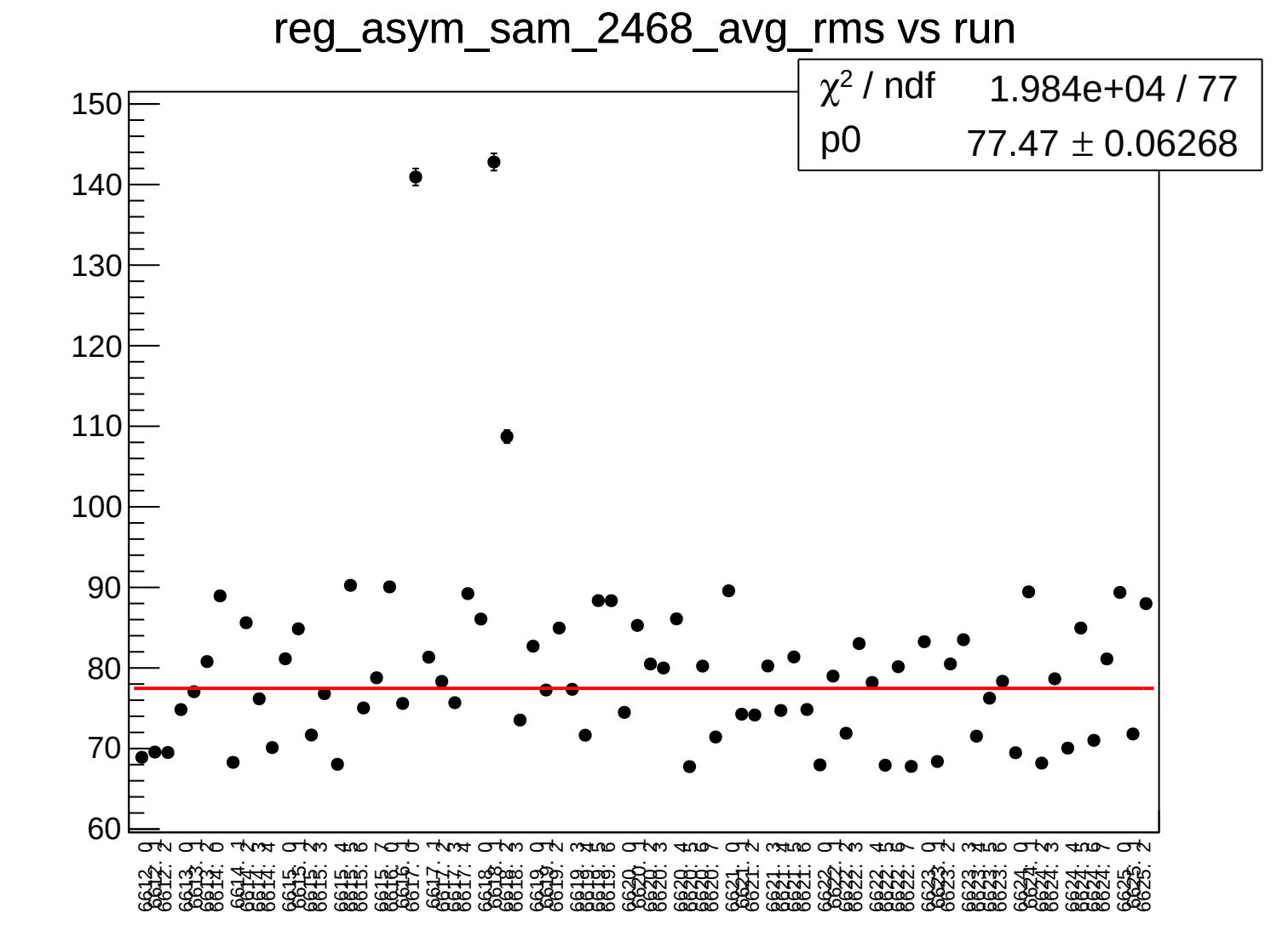

asym_sam_1357_avg_mean vs run
χ² / ndf 78.78 / 77
p0 1190 ± 433.3
pull
Entries 78
Mean 16.93
Std Dev 161

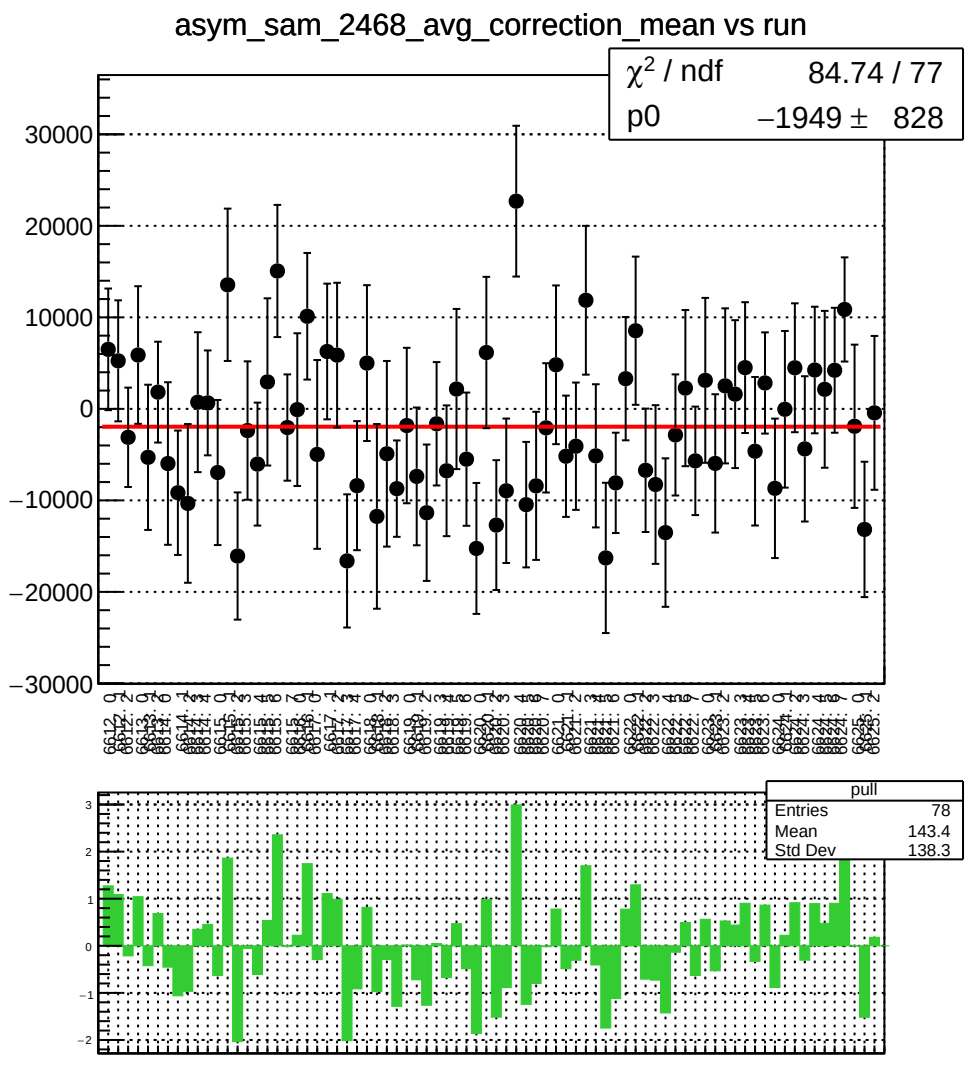

pull1D
Entries 78
Mean −0.004009
Std Dev 1.005

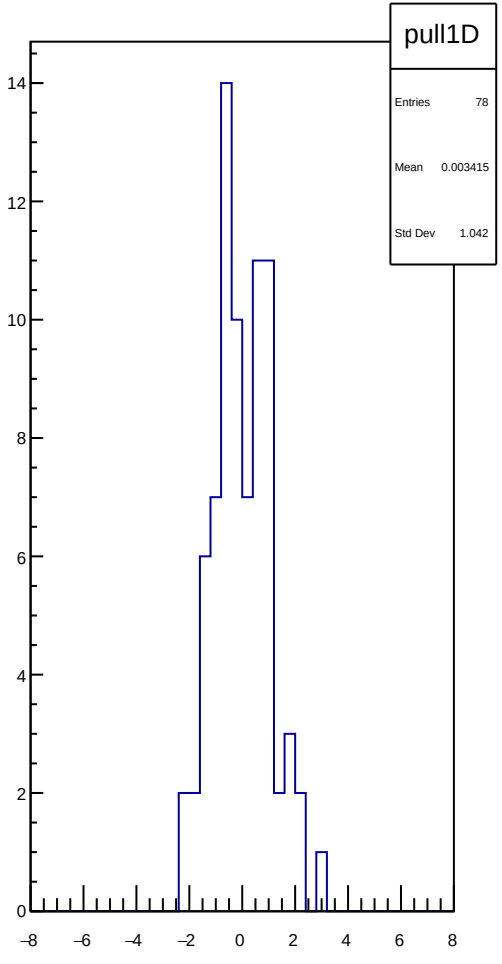

asym_sam_1357_avg_rms vs run
χ² / ndf 1.278e+04 / 77
p0 379.6 ± 0.3064
520
500
480
460
440
420
400
380
360
340
320

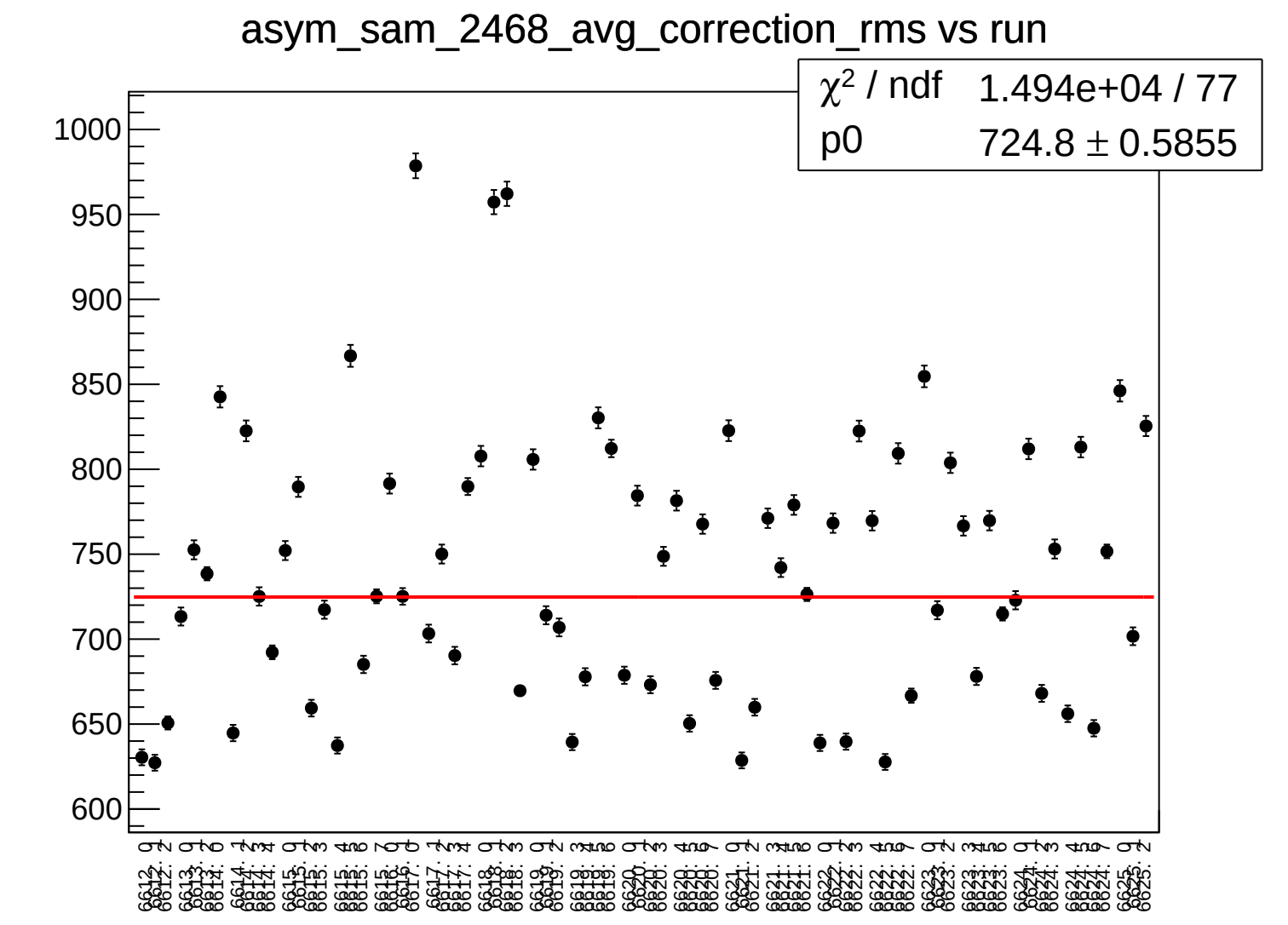

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 76.62 / 77
p0 133.7 ± 88.64
pull
Entries 78
Mean 36.15
Std Dev 33.62

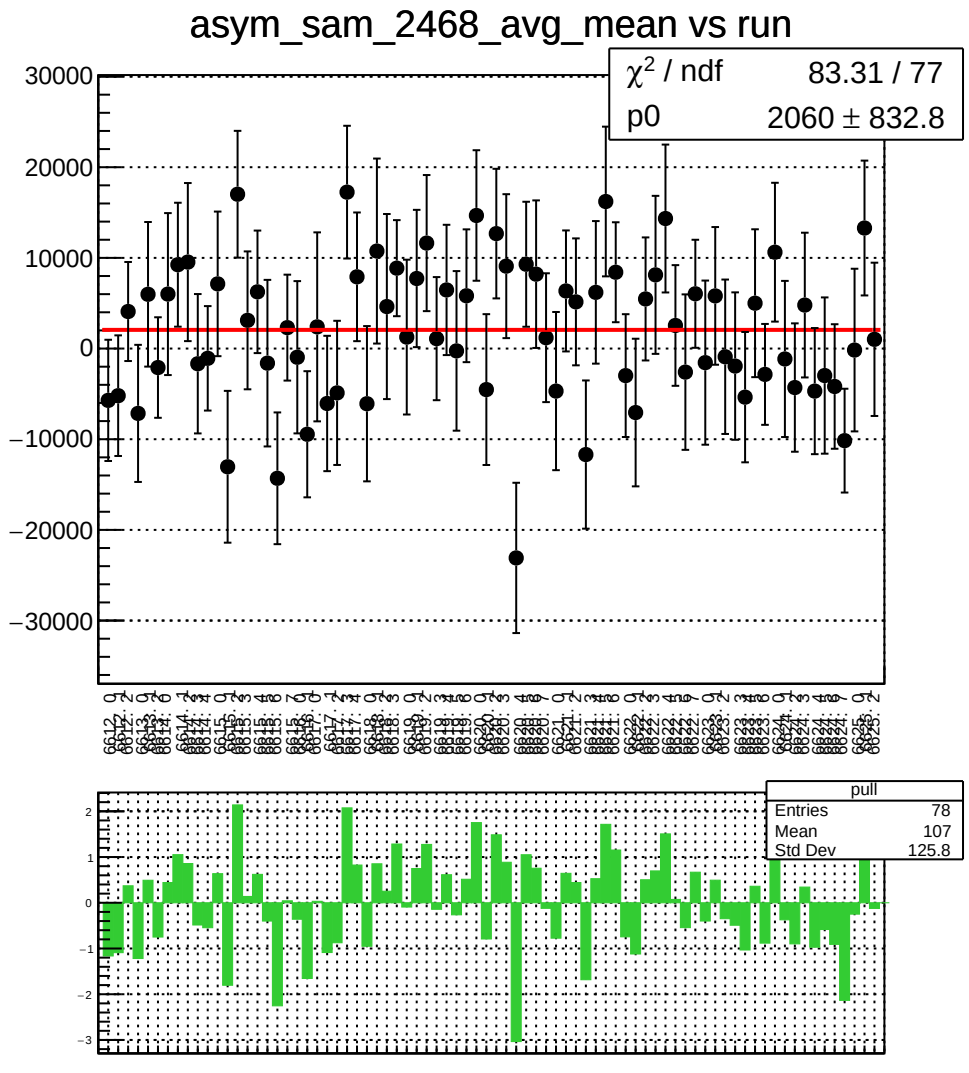

pull1D
Entries 78
Mean −0.02462
Std Dev 0.9908

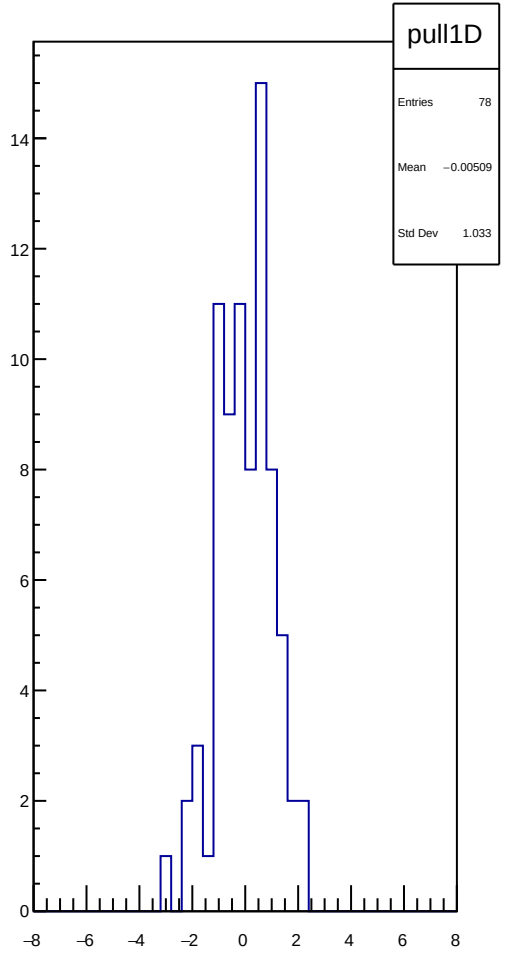

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.984e+04 / 77
p0 77.47 ± 0.06268
150
140
130
120
110
100
90
80
70
60

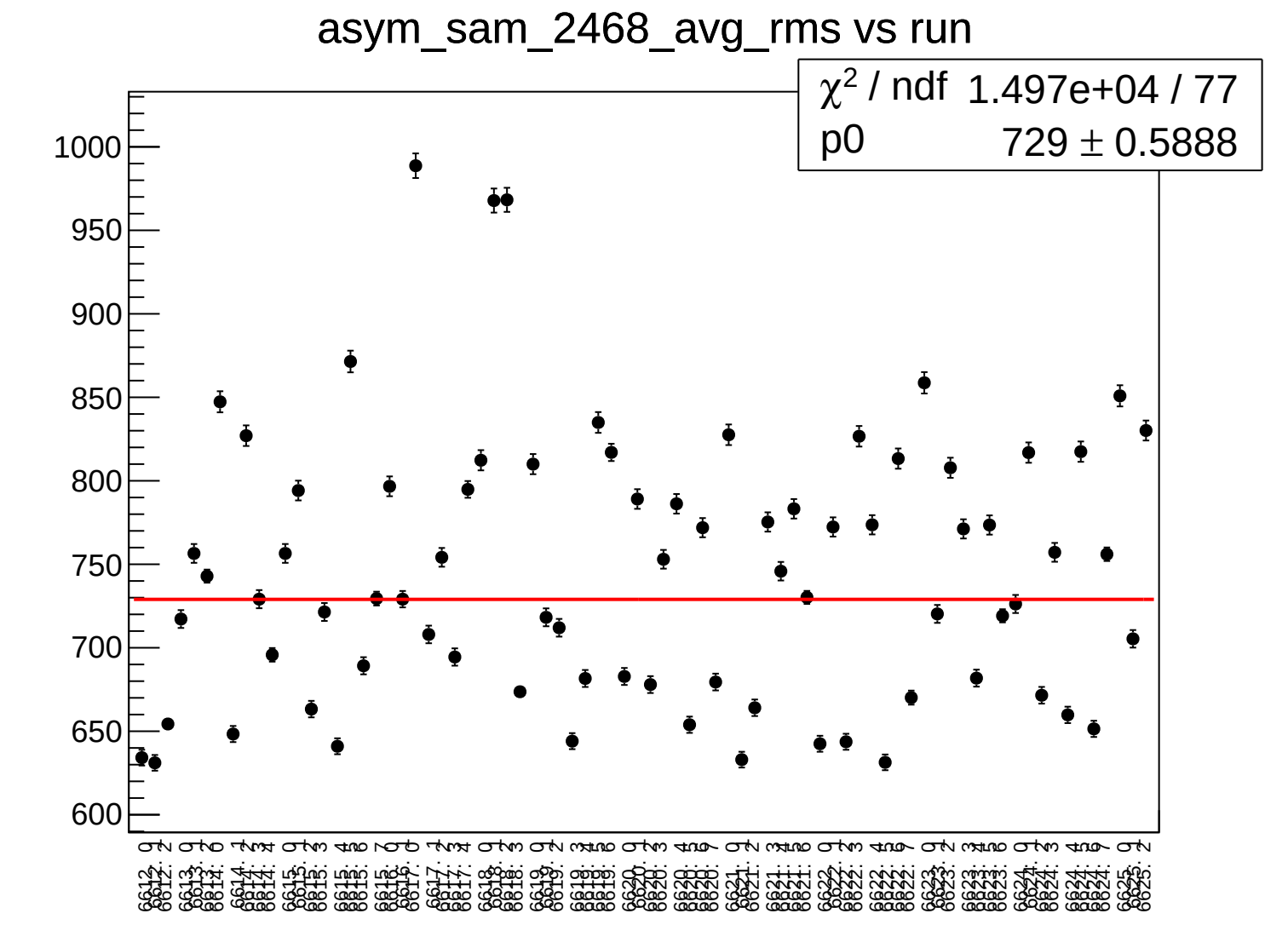

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 84.74 / 77
p0 −1949 ± 828
pull
Entries 78
Mean 143.4
Std Dev 138.3

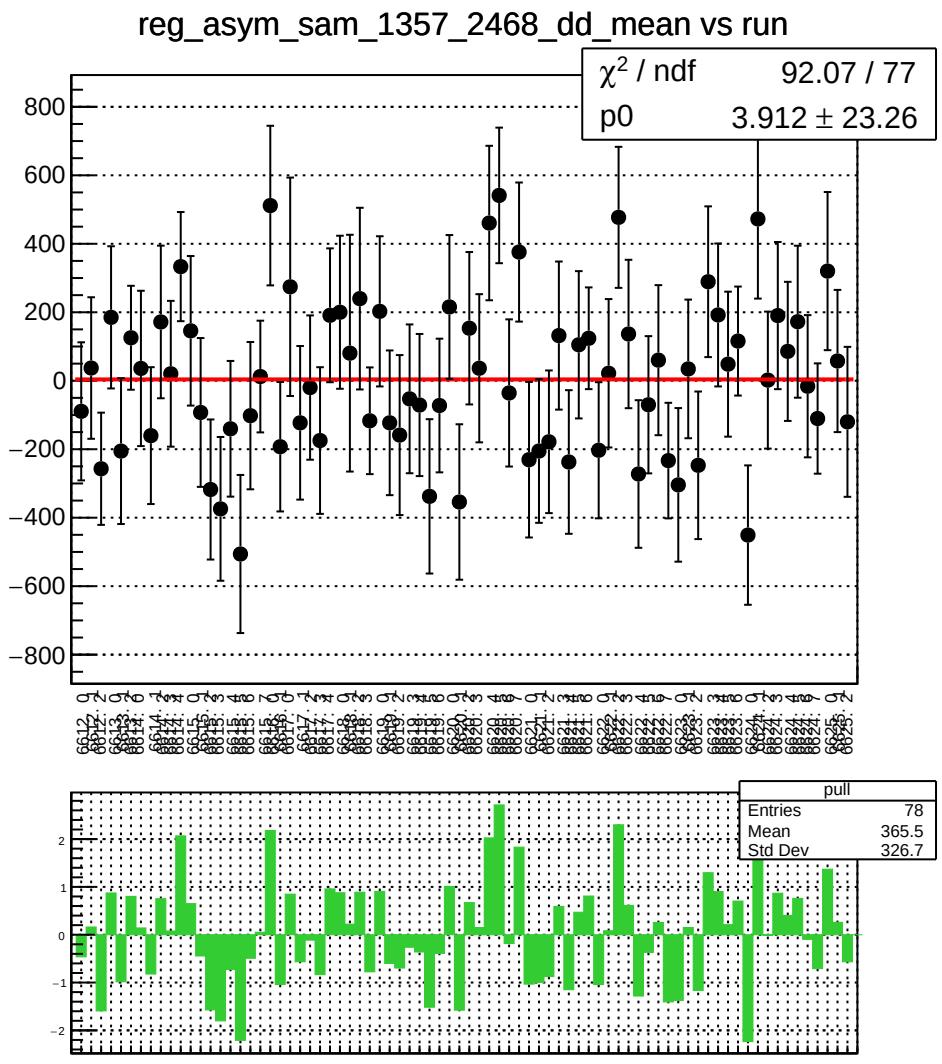

pull1D
Entries 78
Mean 0.003415
Std Dev 1.042

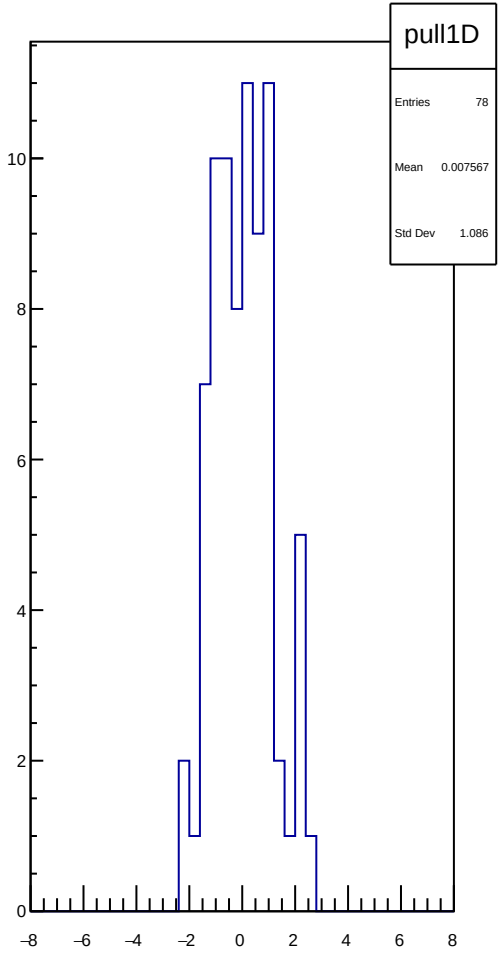

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.494e+04 / 77
p0 724.8 ± 0.5855
1000
950
900
850
800
750
700
650
600

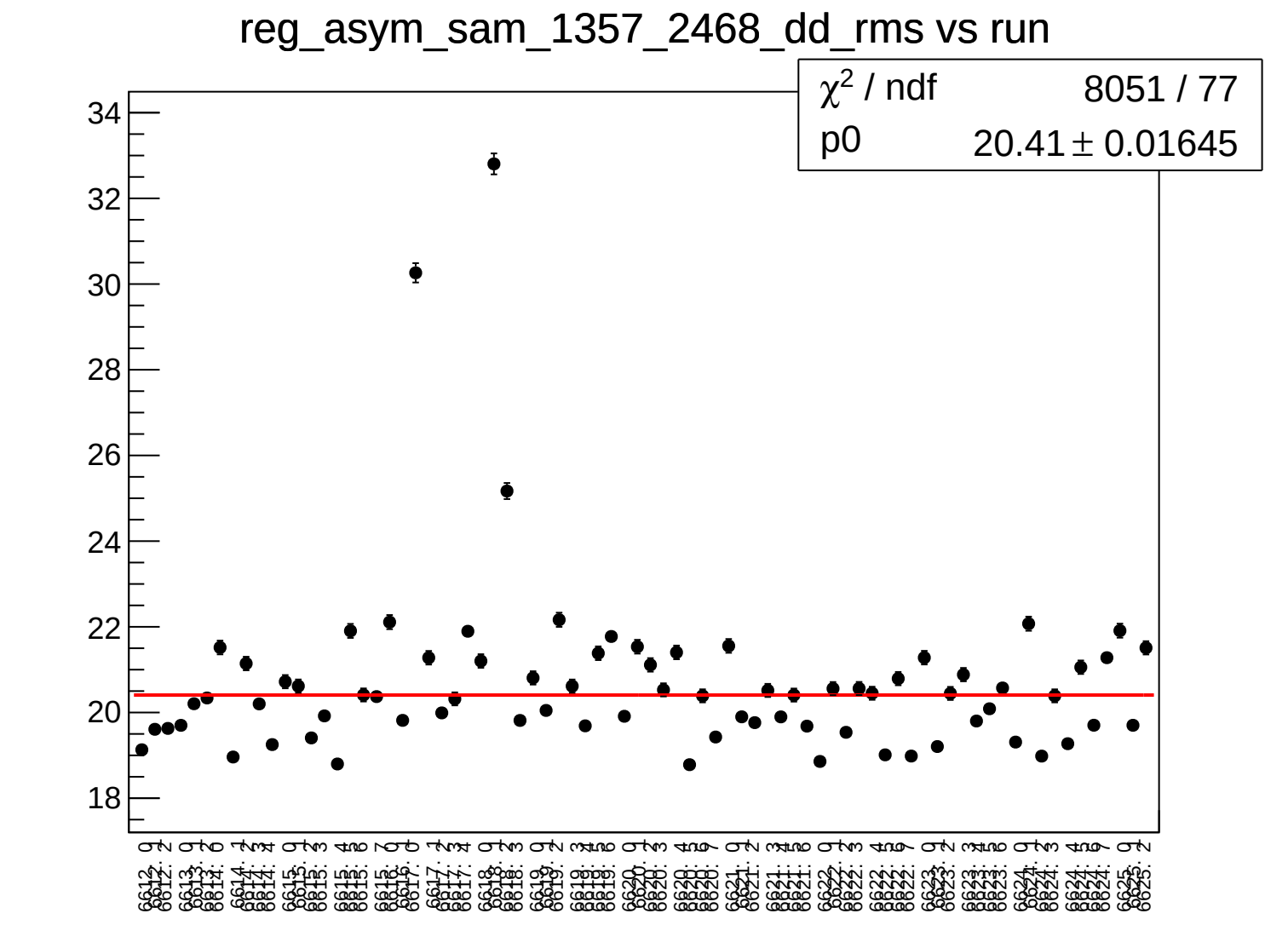

asym_sam_2468_avg_mean vs run
χ² / ndf 83.31 / 77
p0 2060 ± 832.8
pull
Entries 78
Mean 107
Std Dev 125.8

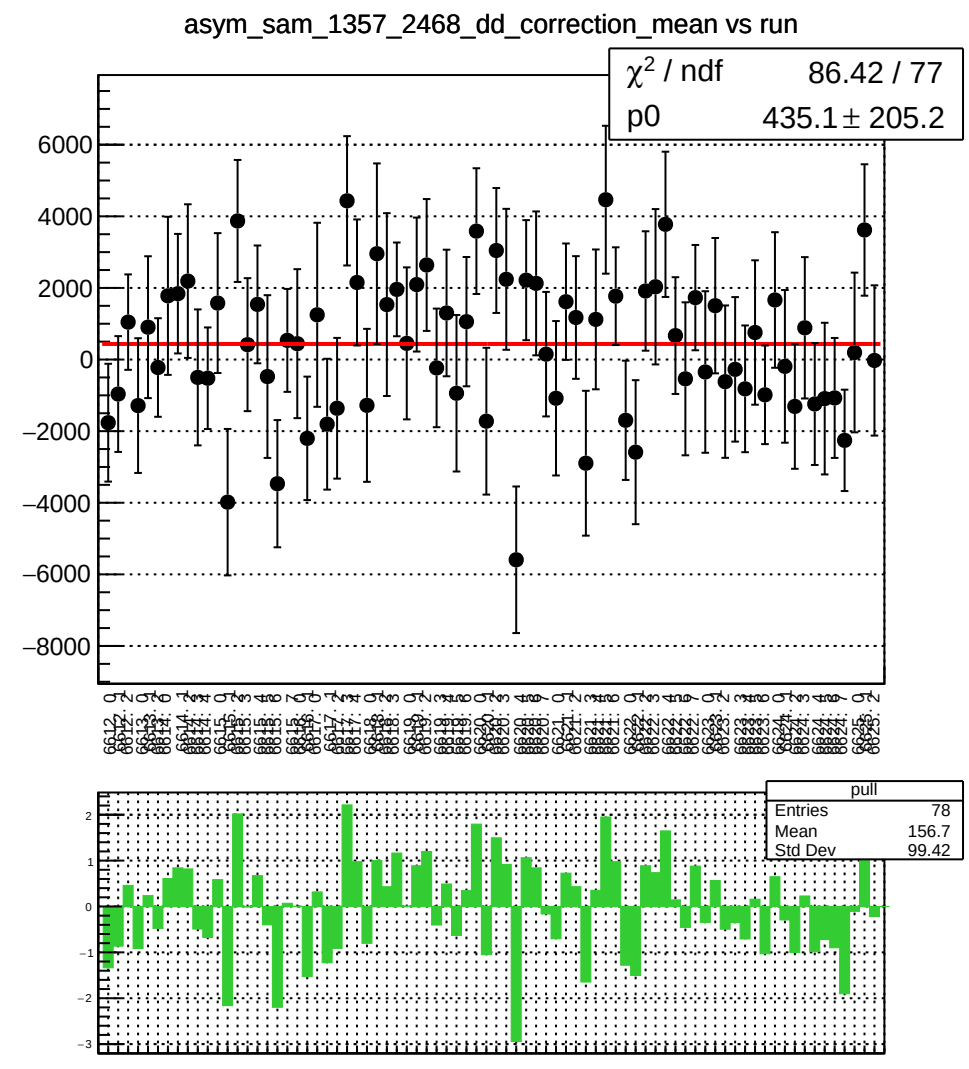

pull1D
Entries 78
Mean −0.00509
Std Dev 1.033

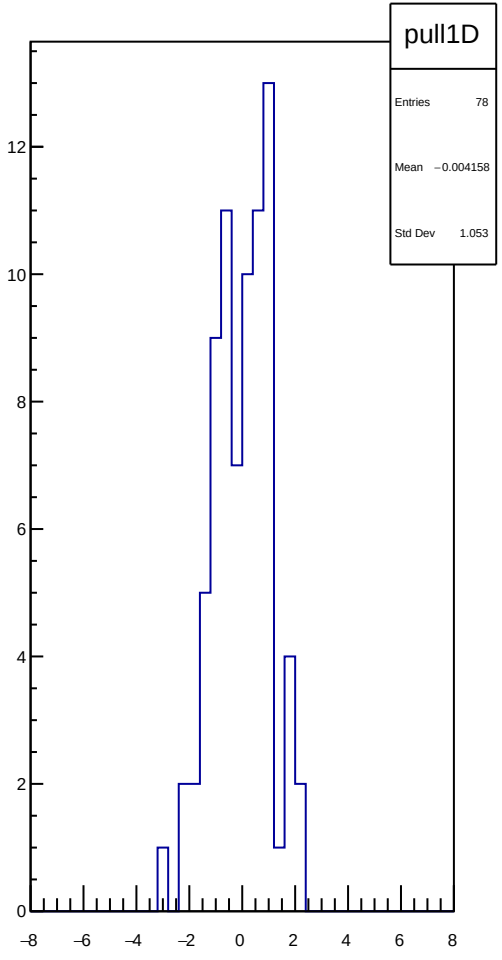

asym_sam_2468_avg_rms vs run
χ² / ndf 1.497e+04 / 77
p0 729 ± 0.5888
1000
950
900
850
800
750
700
650
600

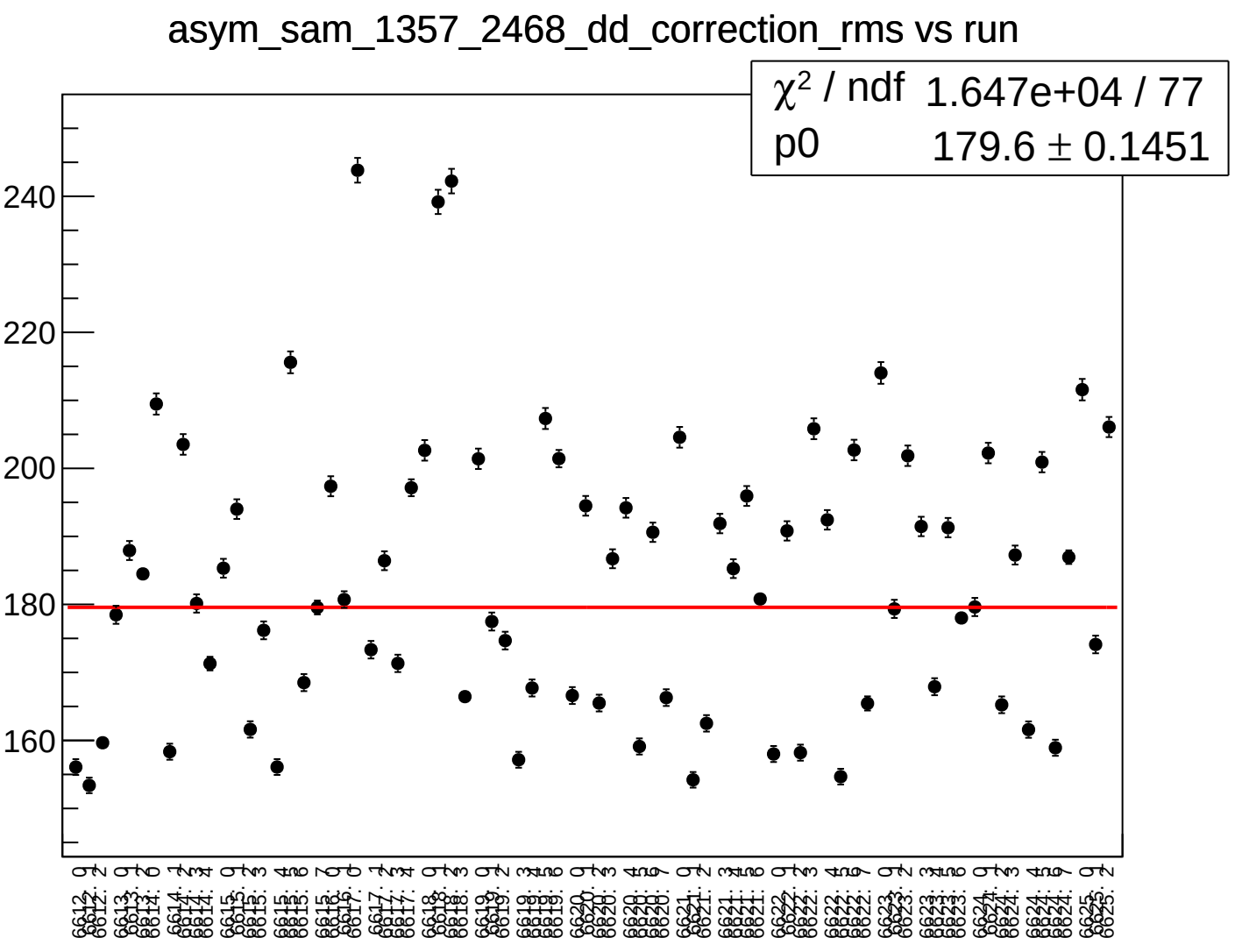

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.07 / 77
p0 3.912 ± 23.26
pull
Entries 78
Mean 365.5
Std Dev 326.7

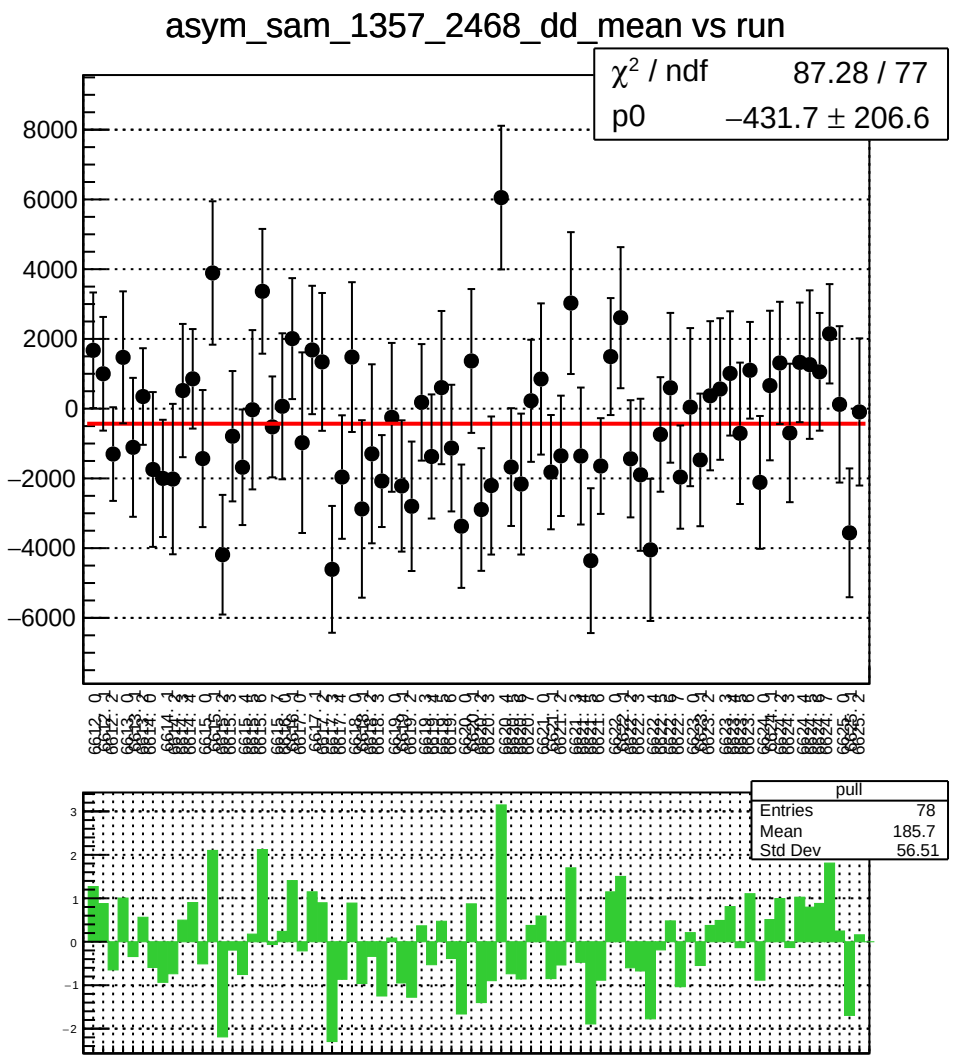

pull1D
Entries 78
Mean 0.007567
Std Dev 1.086

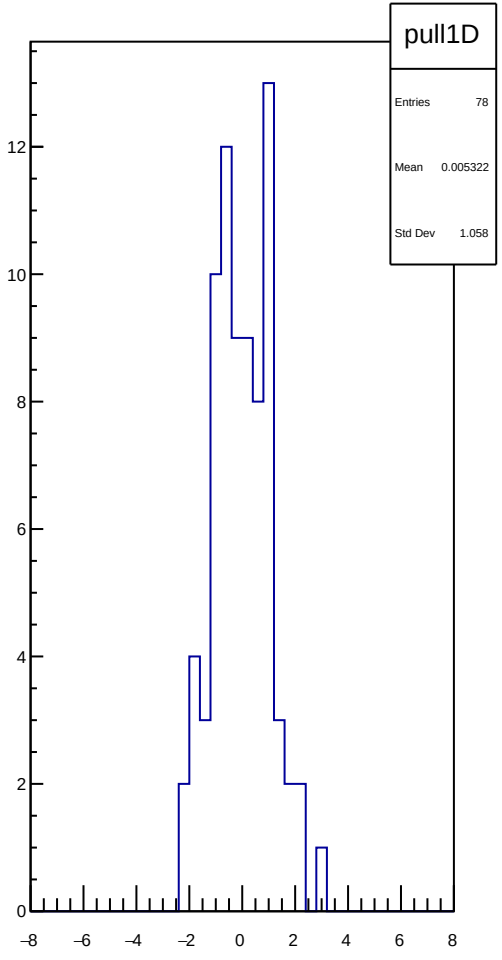

reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 8051 / 77
p0 20.41 ± 0.01645
34
32
30
28
26
24
22
20
18

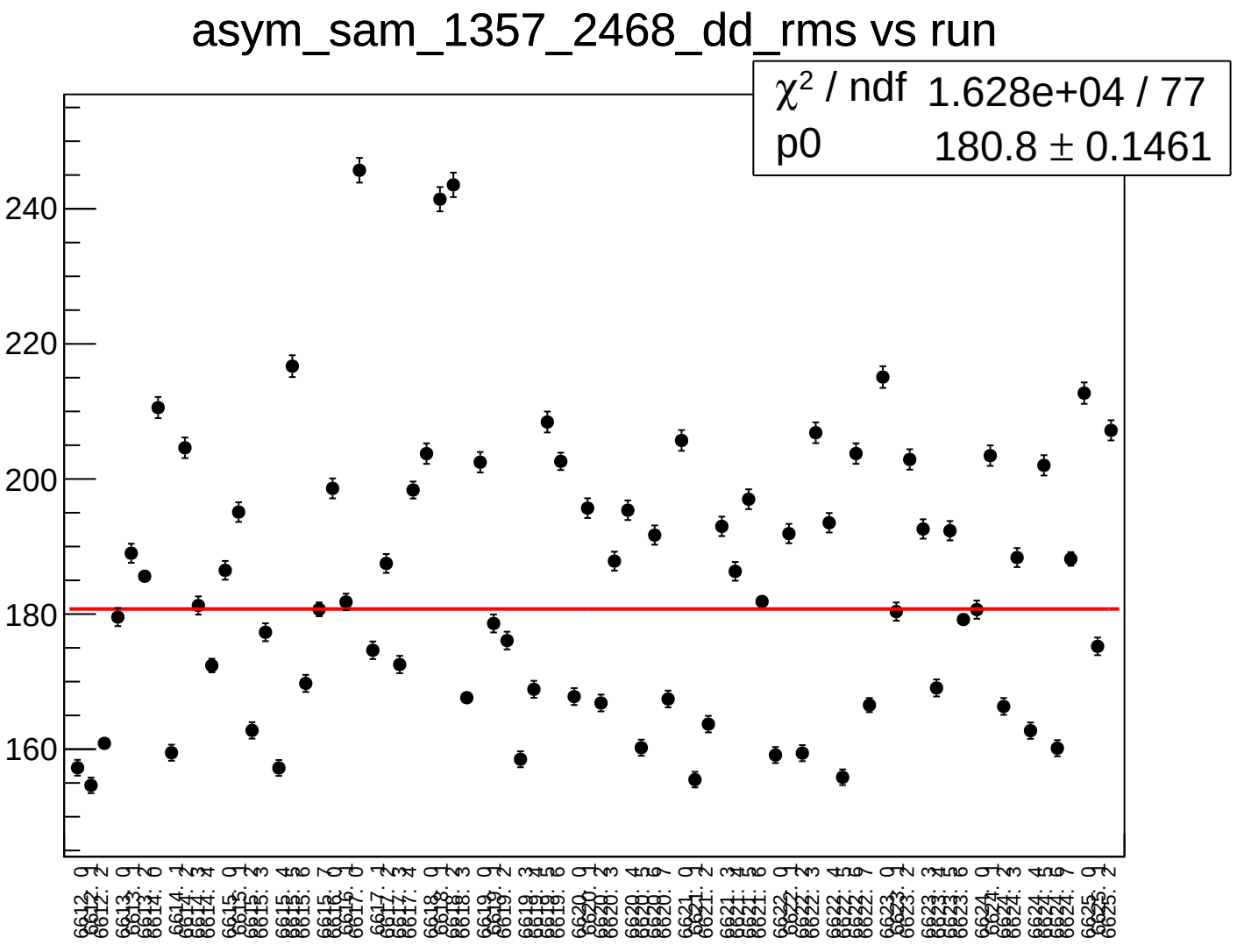

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 86.42 / 77
p0 435.1 ± 205.2
pull
Entries 78
Mean 156.7
Std Dev 99.42

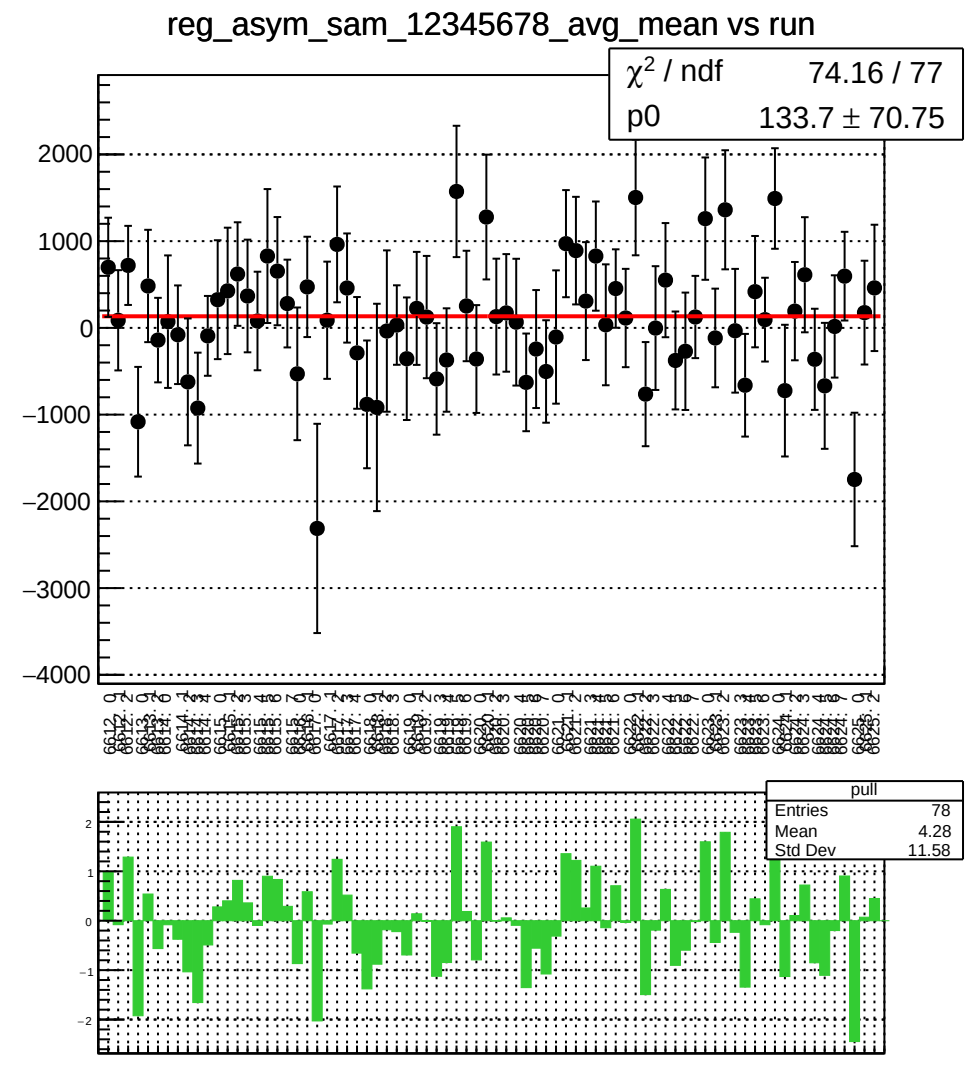

pull1D
Entries 78
Mean −0.004158
Std Dev 1.053

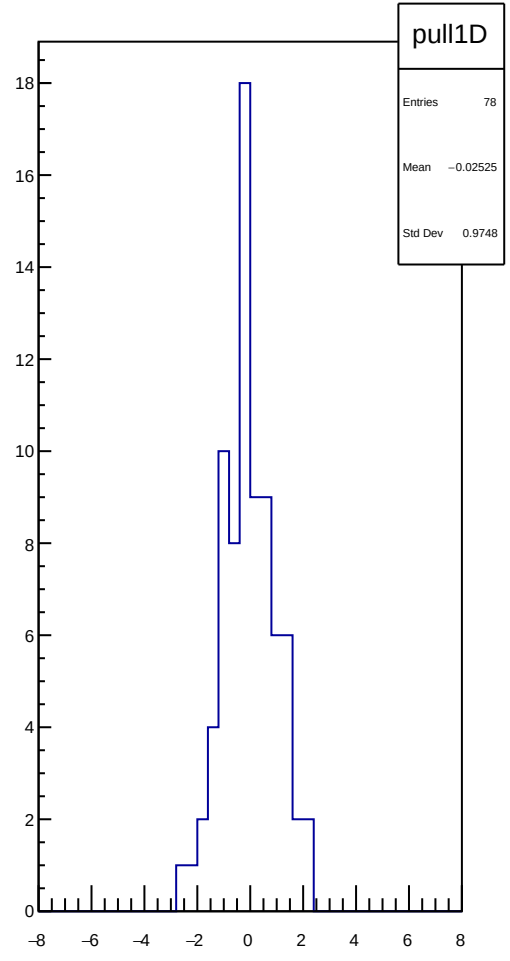

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.647e+04 / 77
p0 179.6 ± 0.1451
240
220
200
180
160

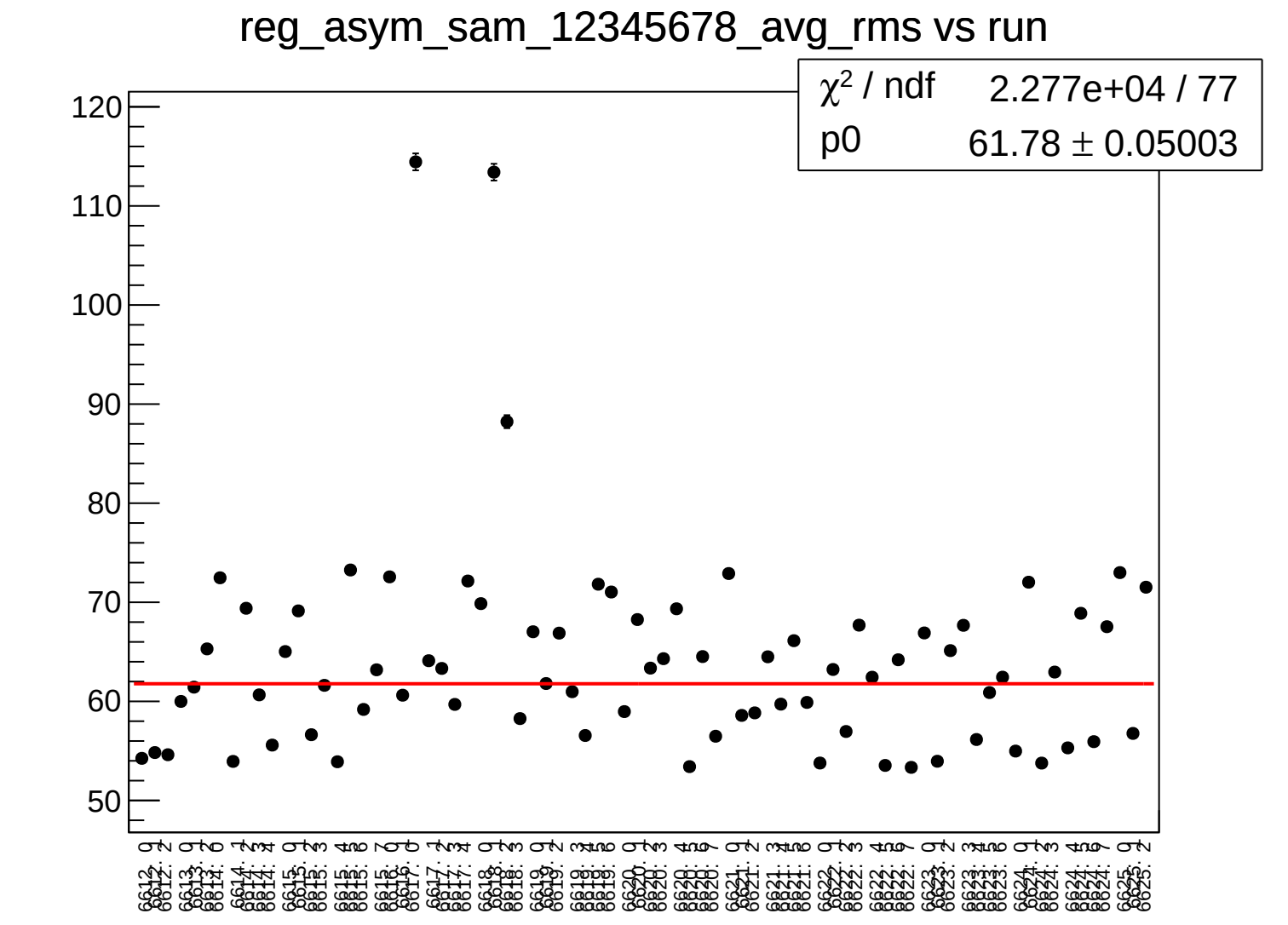

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 87.28 / 77
p0 −431.7 ± 206.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 78
Mean 185.7
Std Dev 56.51
3
2
1
0
−1
−2

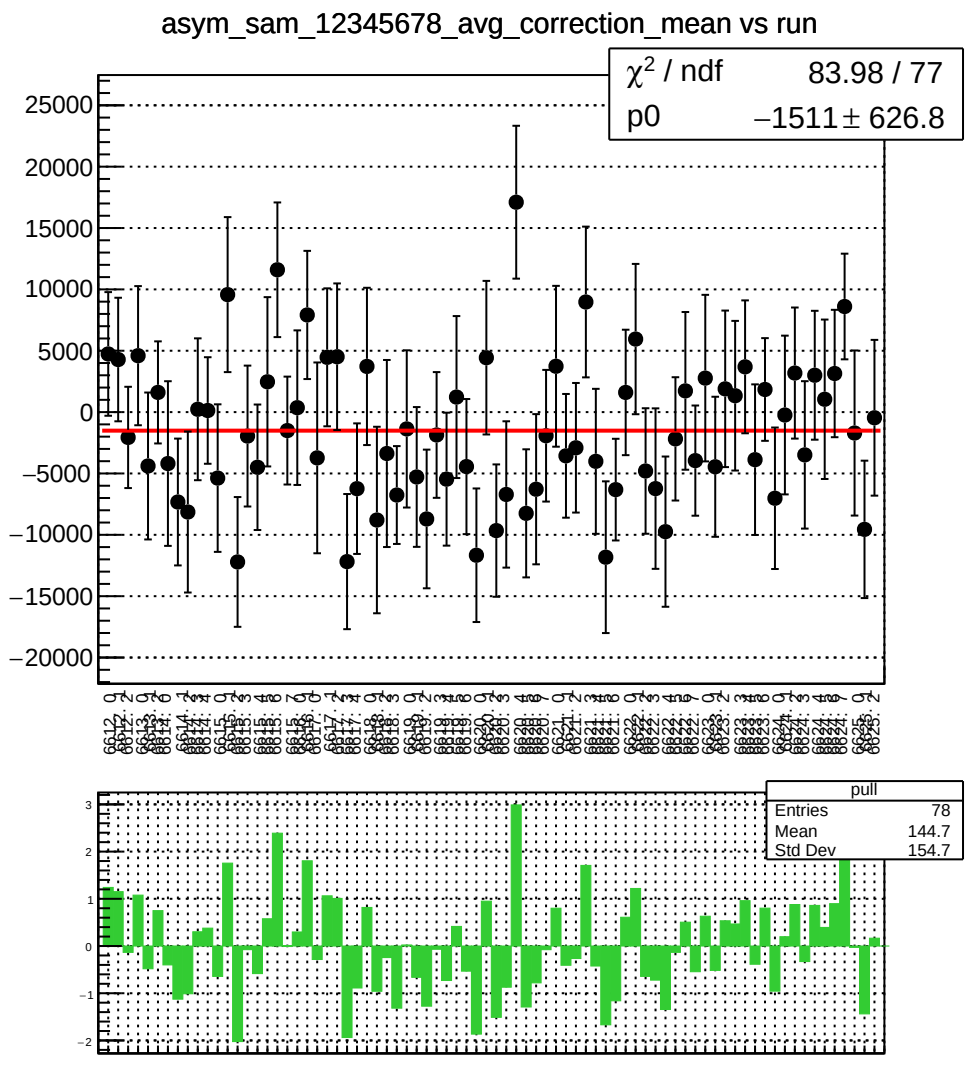

pull1D
Entries 78
Mean 0.005322
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

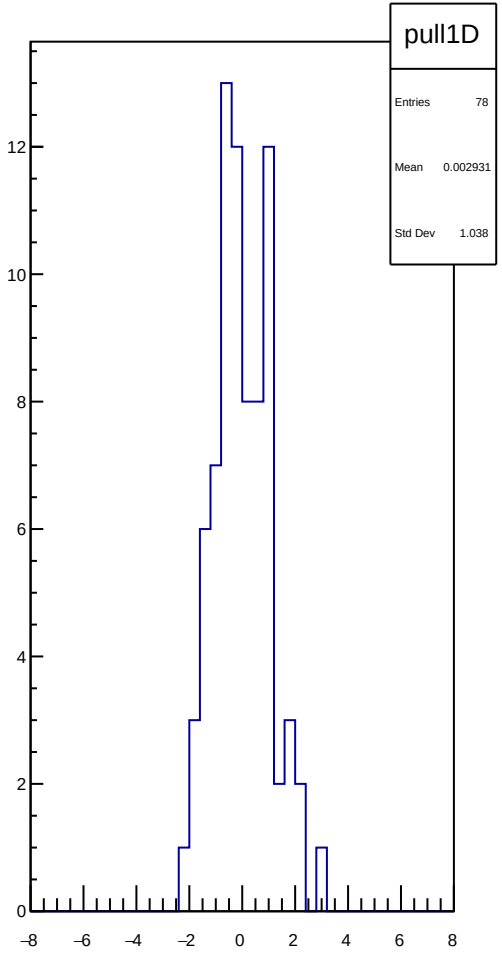

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.628e+04 / 77
p0 180.8 ± 0.1461
240
220
200
180
160

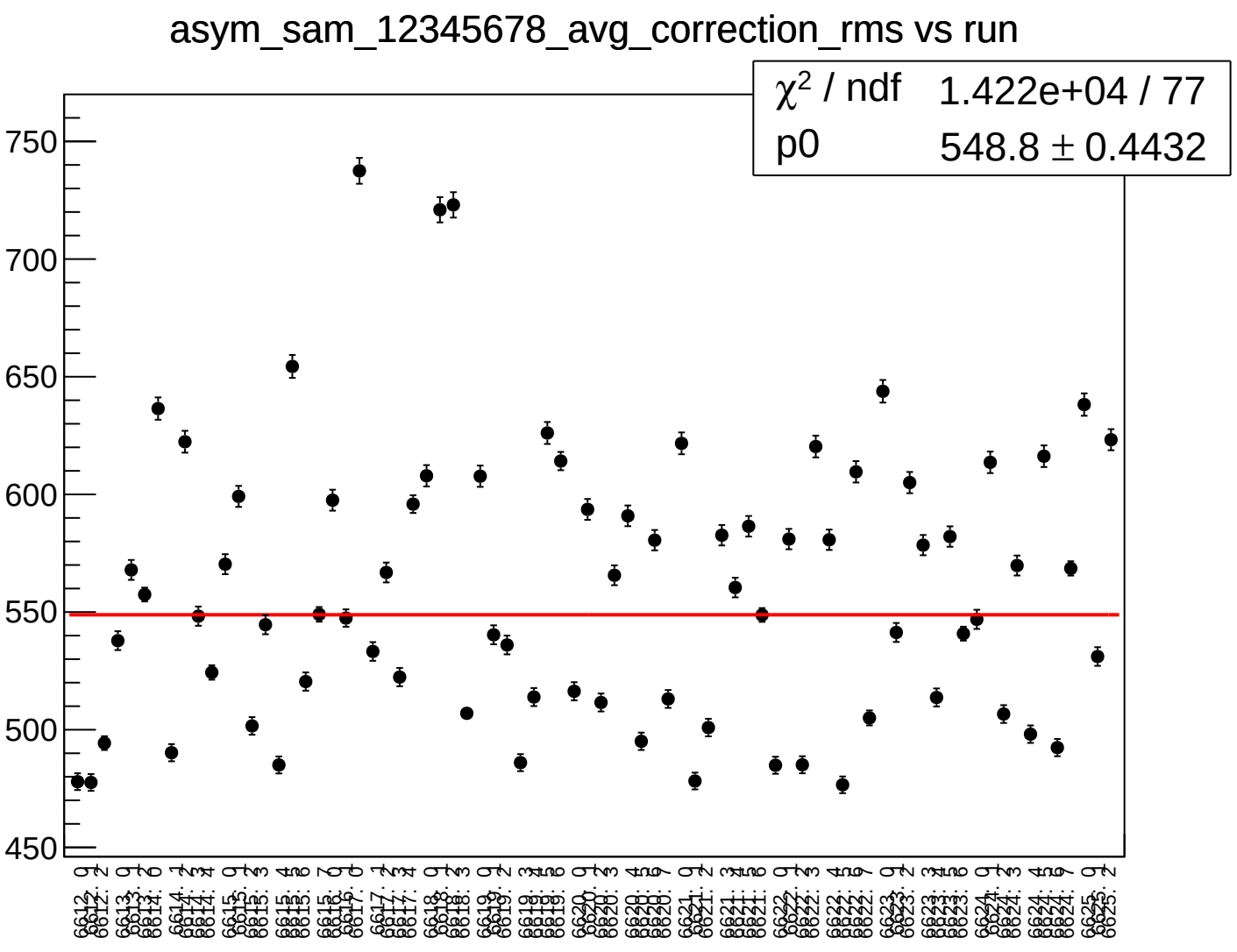

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 74.16 / 77
p0 133.7 ± 70.75
pull
Entries 78
Mean 4.28
Std Dev 11.58

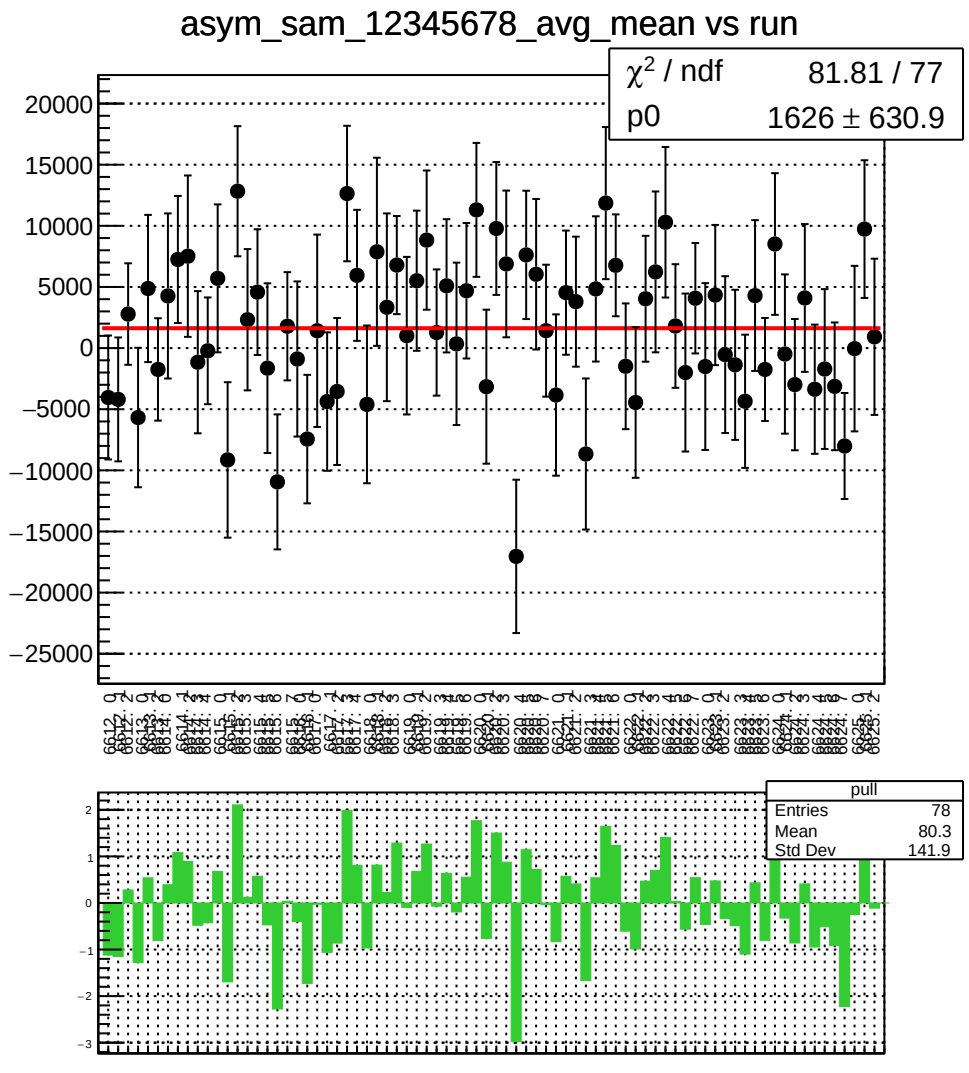

pull1D
Entries 78
Mean −0.02525
Std Dev 0.9748

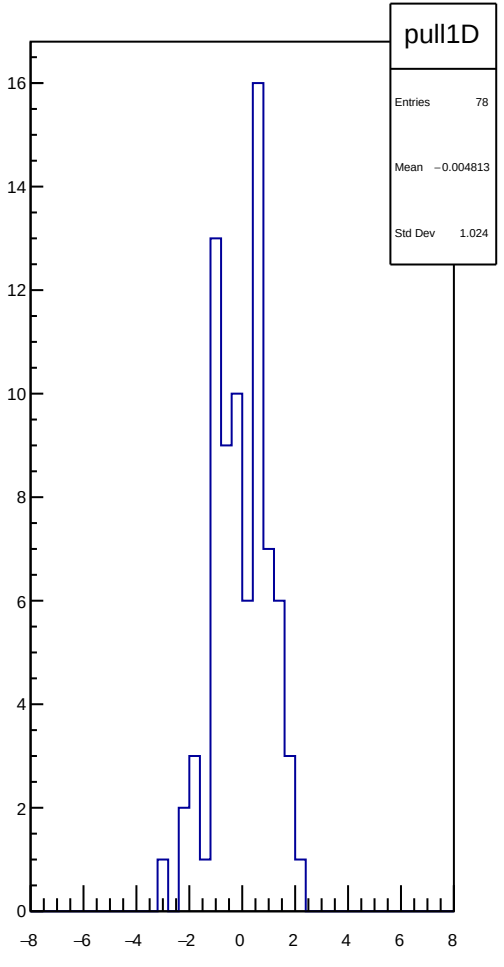

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.277e+04 / 77
p0 61.78 ± 0.05003
120
110
100
90
80
70
60
50

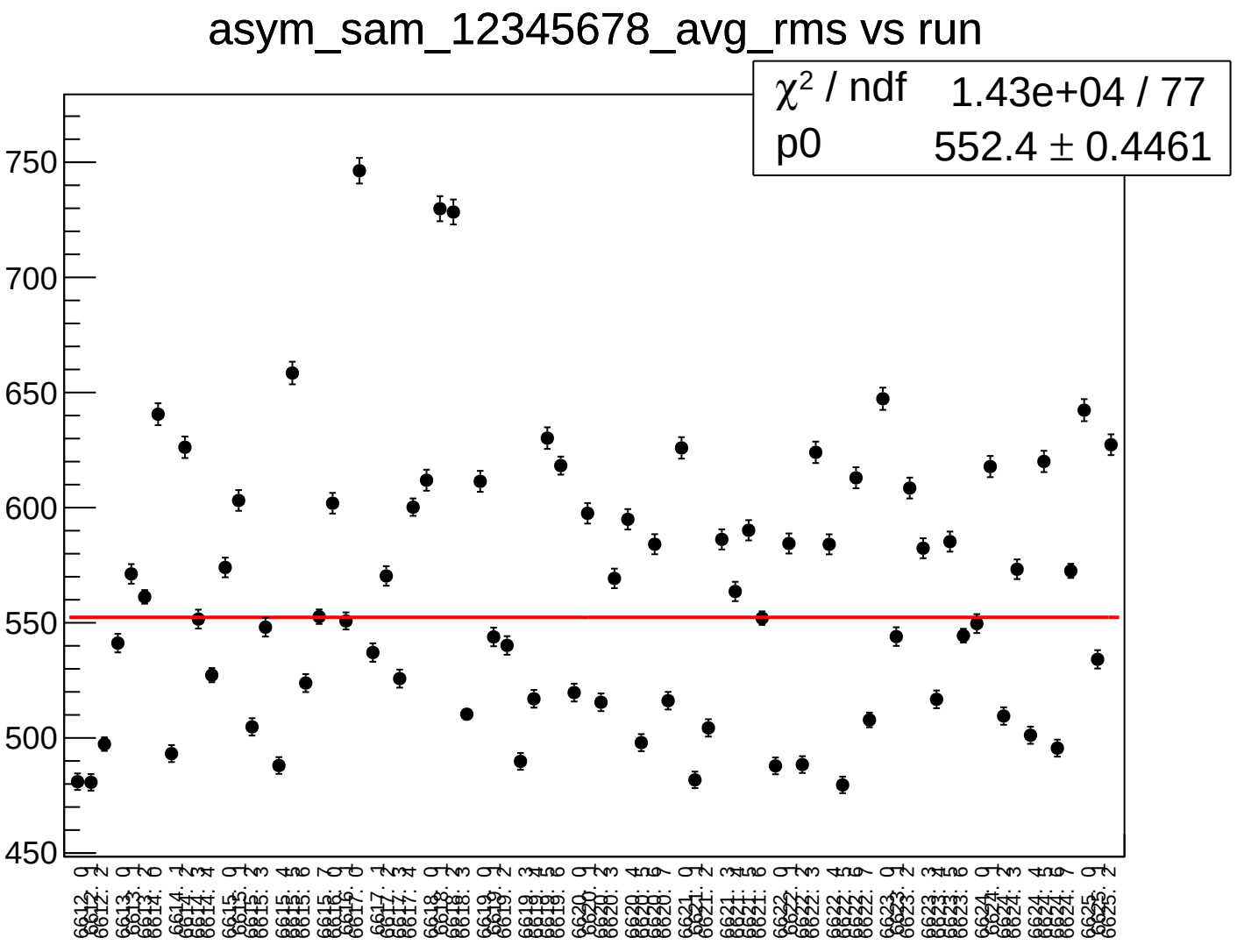

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 83.98 / 77
p0 −1511 ± 626.8
pull
Entries 78
Mean 144.7
Std Dev 154.7

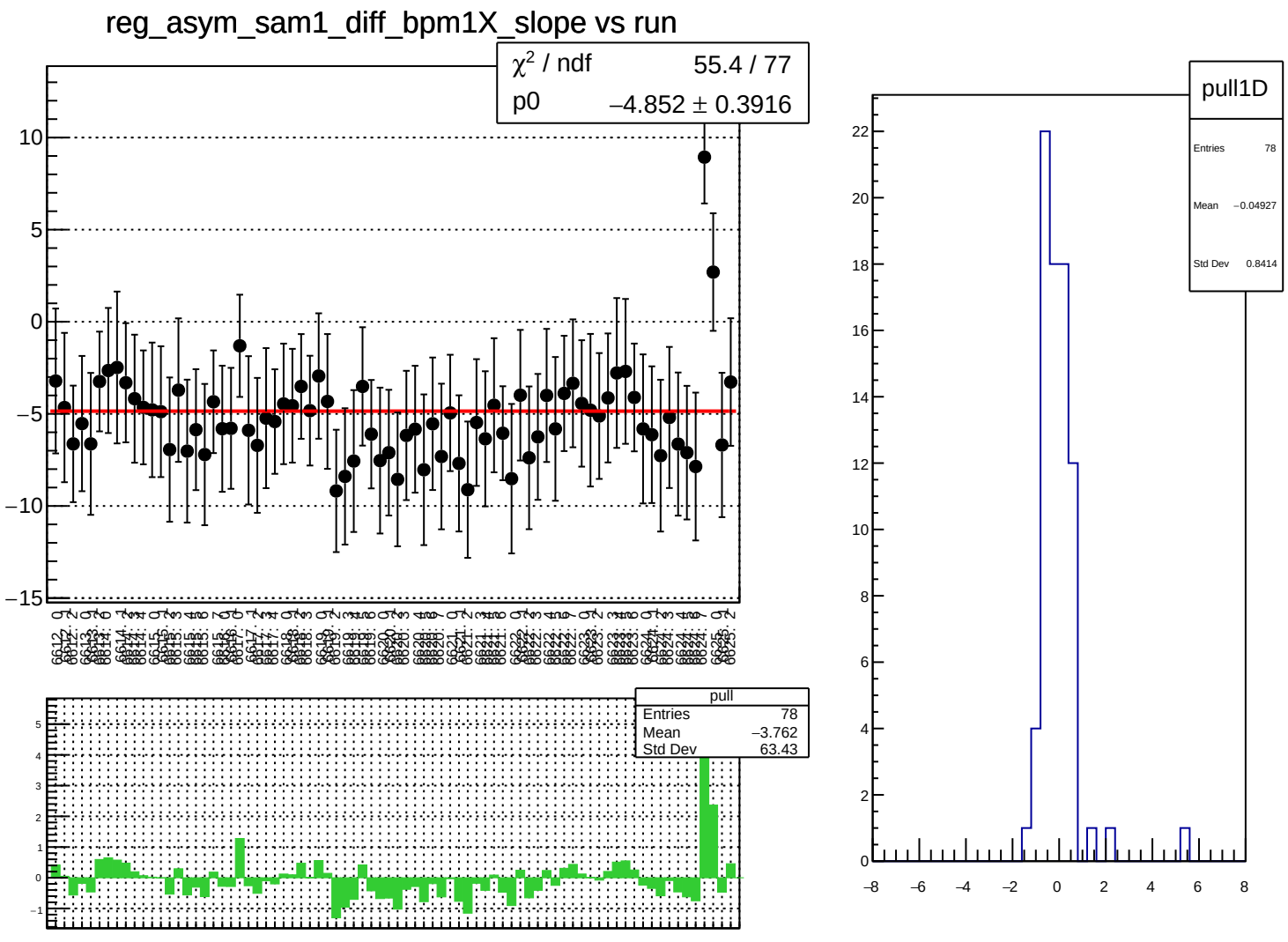

pull1D
Entries 78
Mean 0.002931
Std Dev 1.038

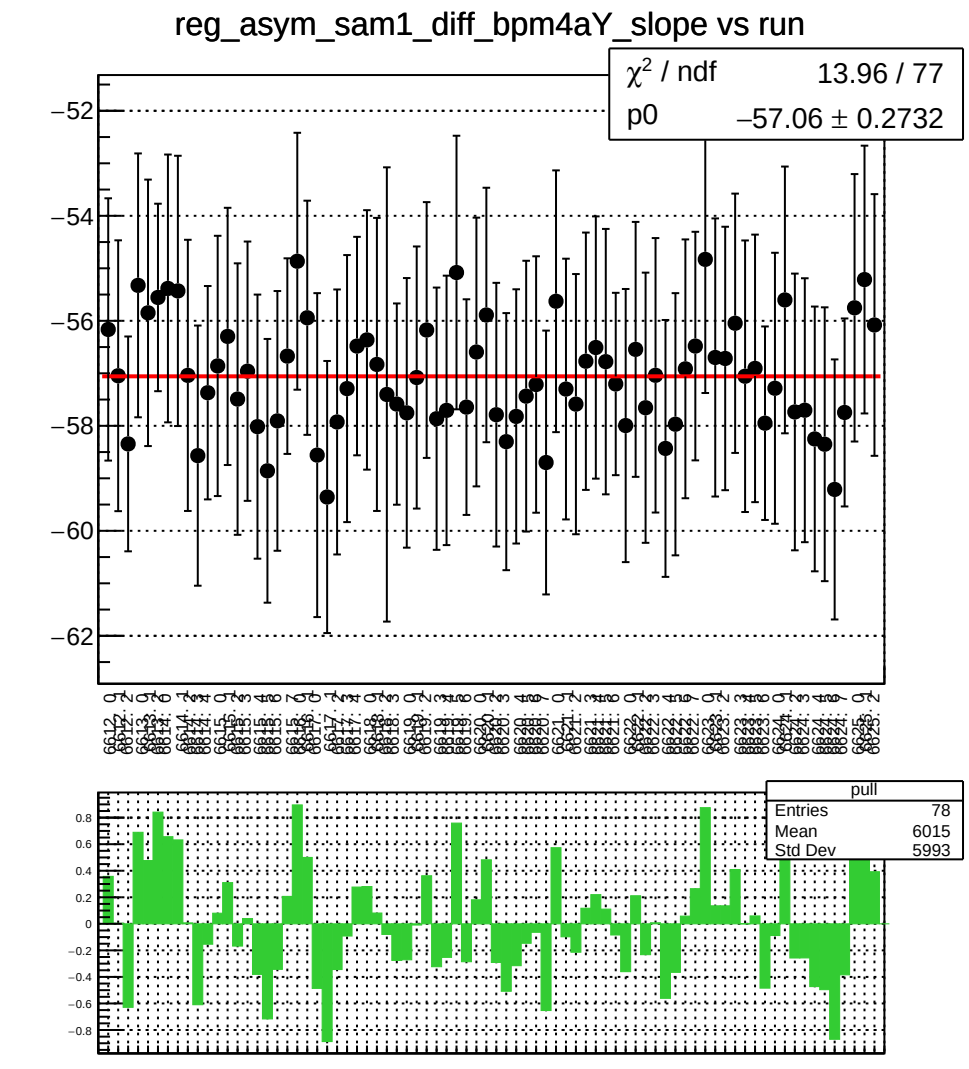

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.422e+04 / 77
p0 548.8 ± 0.4432
750
700
650
600
550
500
450

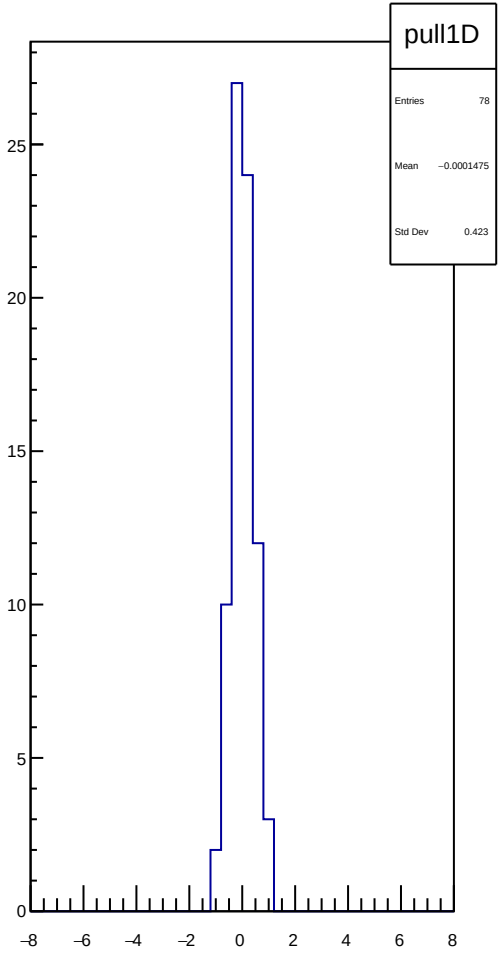

asym_sam_12345678_avg_mean vs run
χ² / ndf 81.81 / 77
p0 1626 ± 630.9
pull
Entries 78
Mean 80.3
Std Dev 141.9

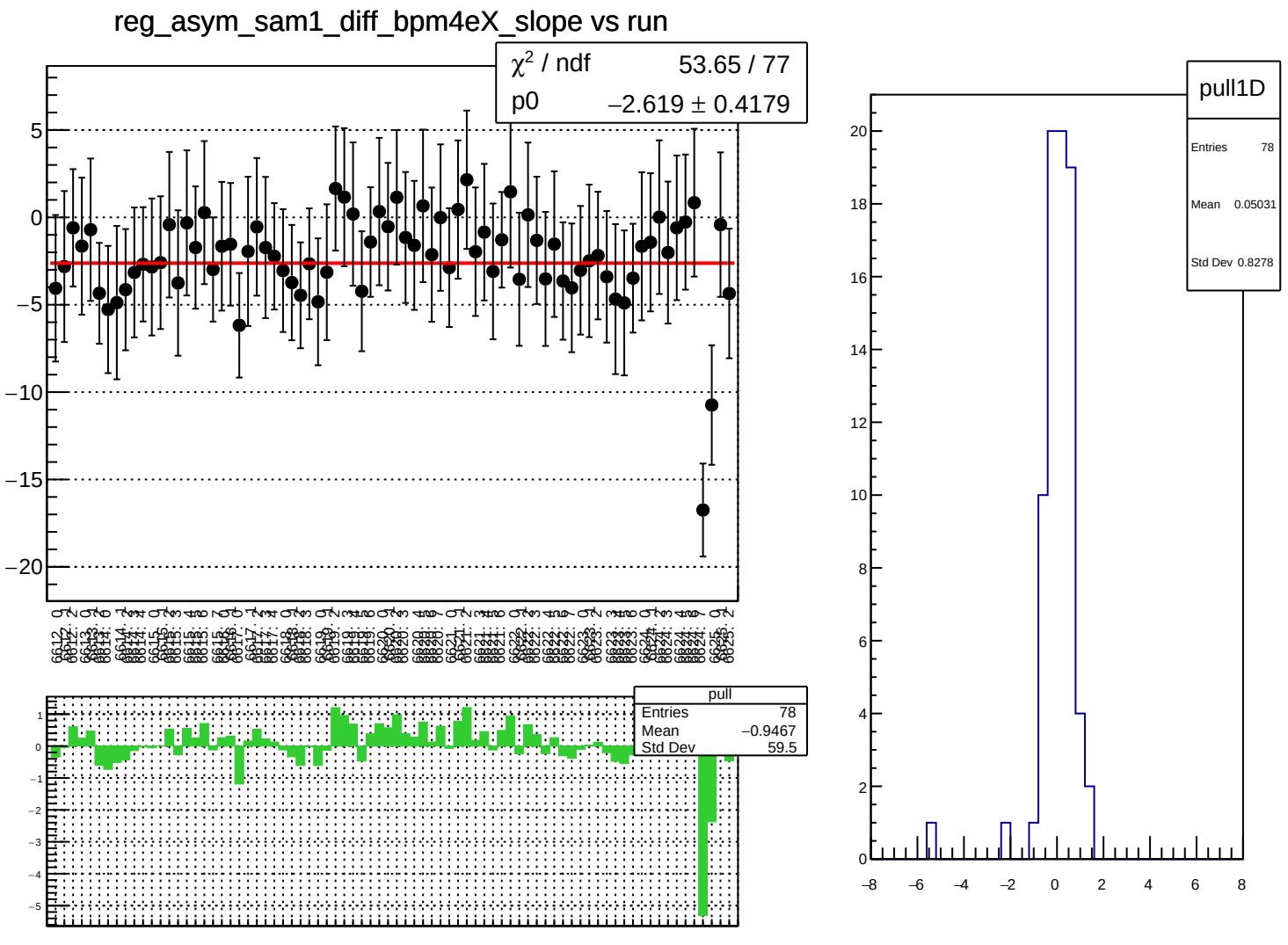

pull1D
Entries 78
Mean −0.004813
Std Dev 1.024

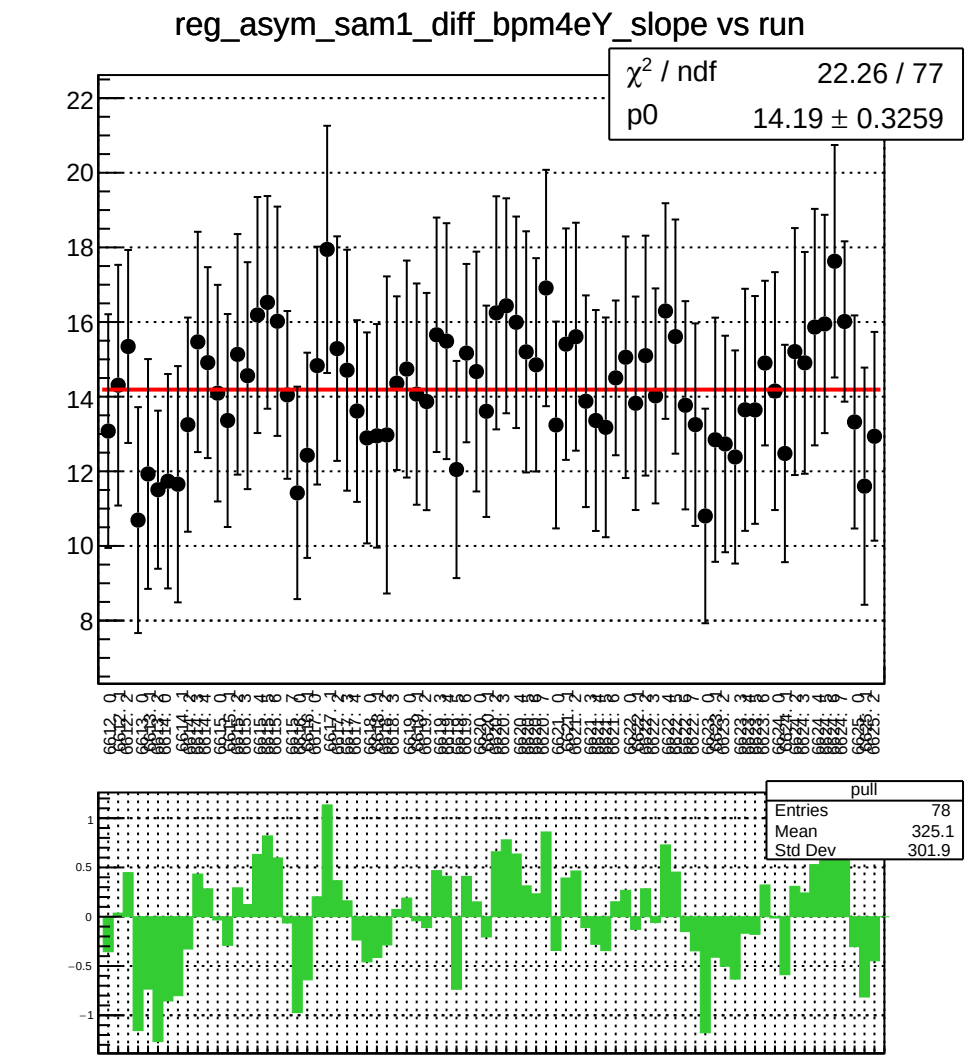

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.43e+04 / 77
p0 552.4 ± 0.4461
750
700
650
600
550
500
450

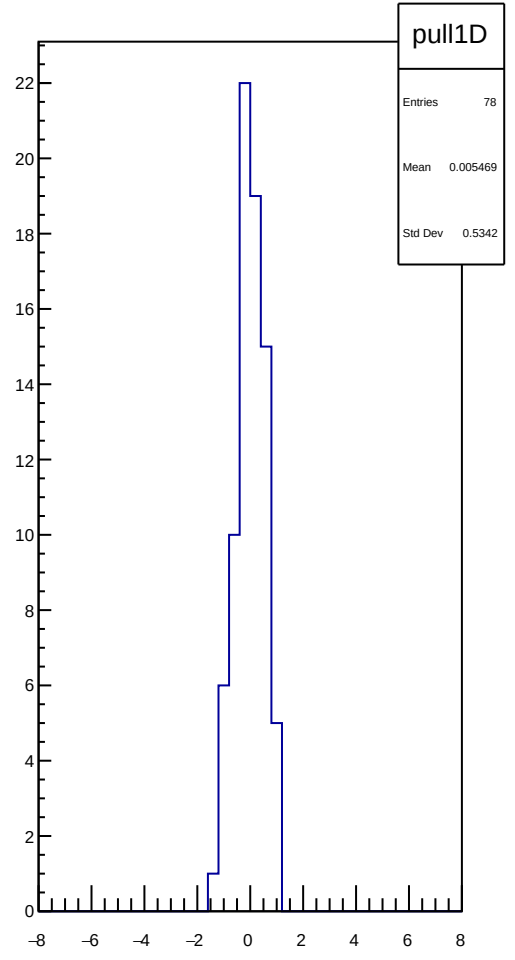

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 55.4 / 77
p0 −4.852 ± 0.3916
pull
Entries 78
Mean −3.762
Std Dev 63.43
pull1D
Entries 78
Mean −0.04927
Std Dev 0.8414

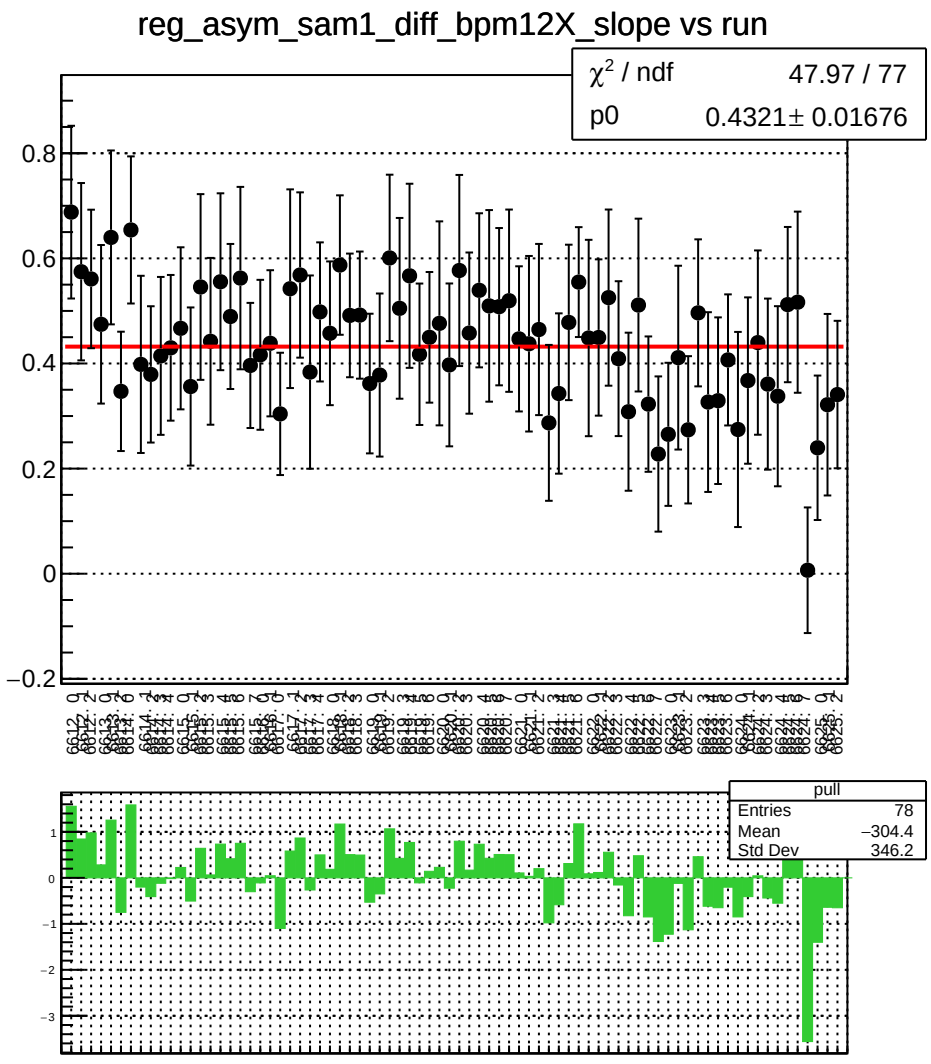

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 13.96 / 77
p0 −57.06 ± 0.2732
pull
Entries 78
Mean 6015
Std Dev 5993

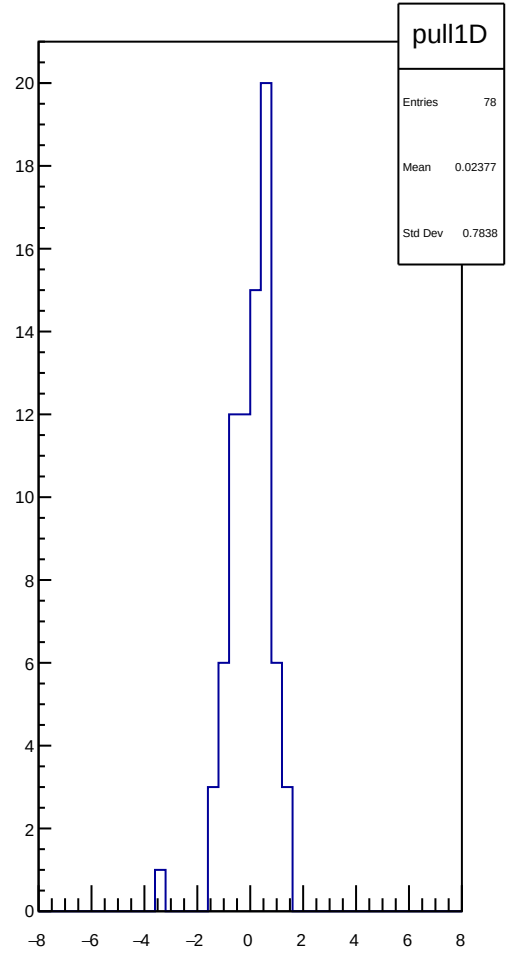

pull1D
Entries 78
Mean −0.0001475
Std Dev 0.423

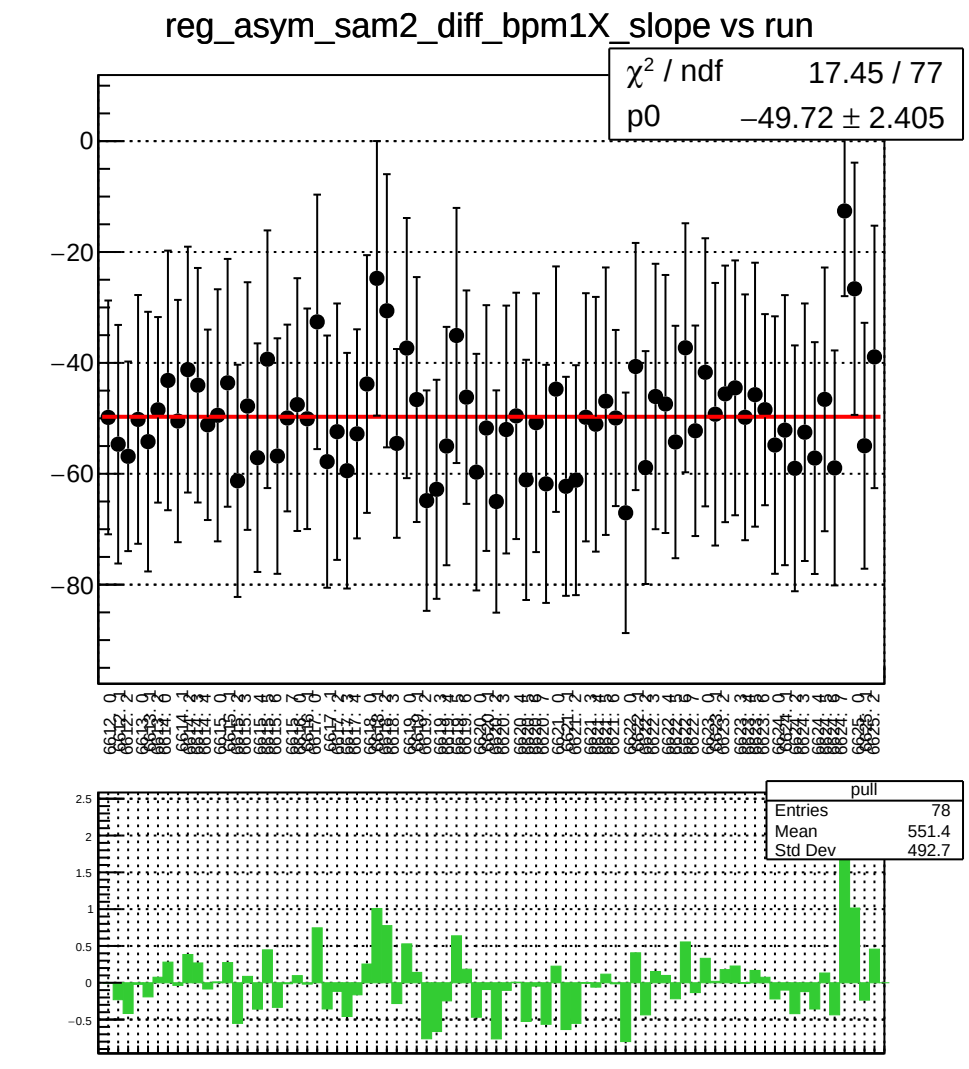

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 53.65 / 77
p0 −2.619 ± 0.4179
pull
Entries 78
Mean −0.9467
Std Dev 59.5
pull1D
Entries 78
Mean 0.05031
Std Dev 0.8278

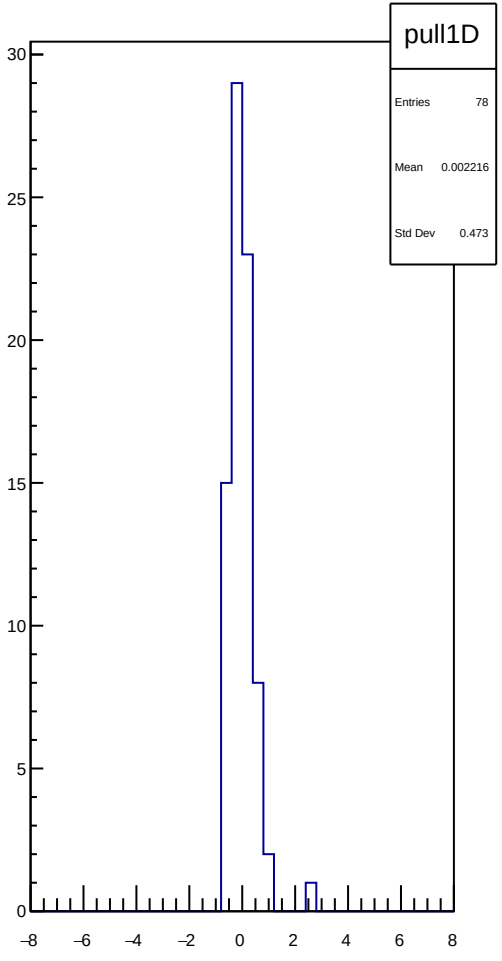

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 22.26 / 77
p0 14.19 ± 0.3259
pull
Entries 78
Mean 325.1
Std Dev 301.9

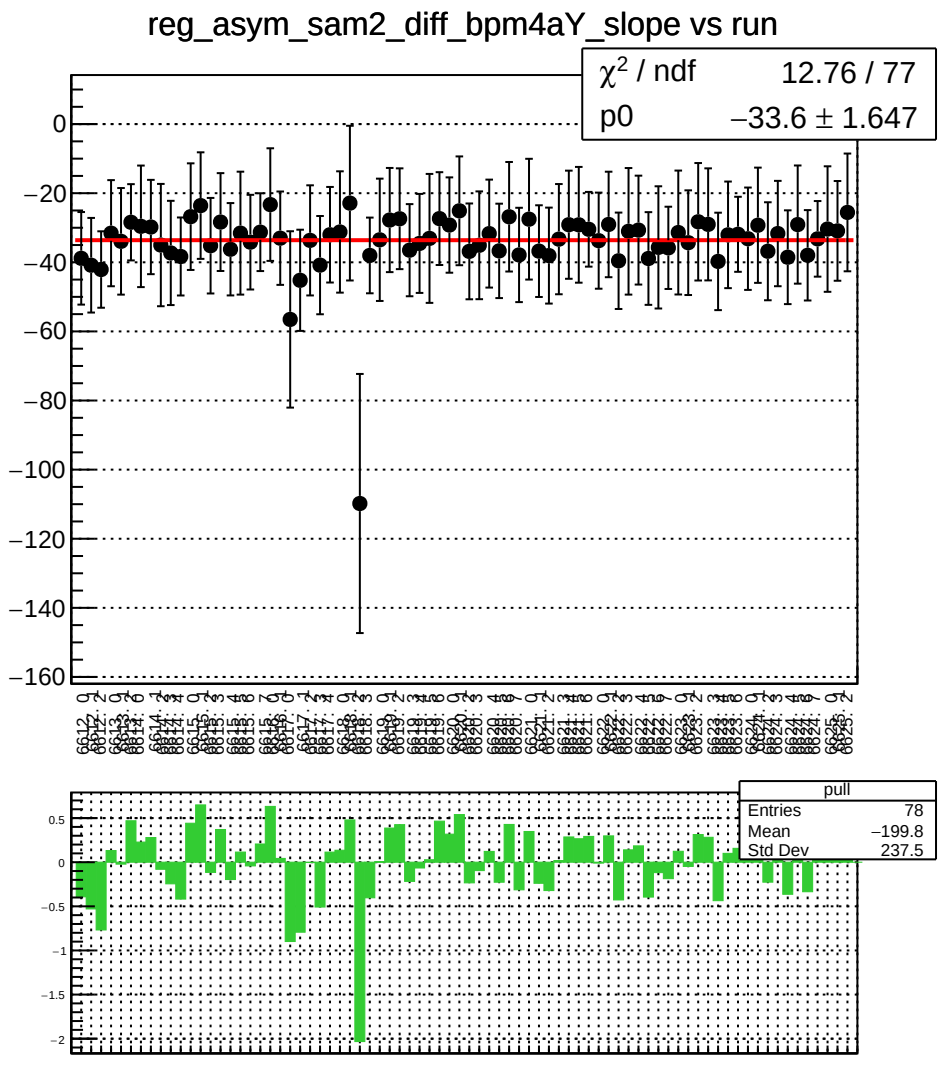

pull1D
Entries 78
Mean 0.005469
Std Dev 0.5342

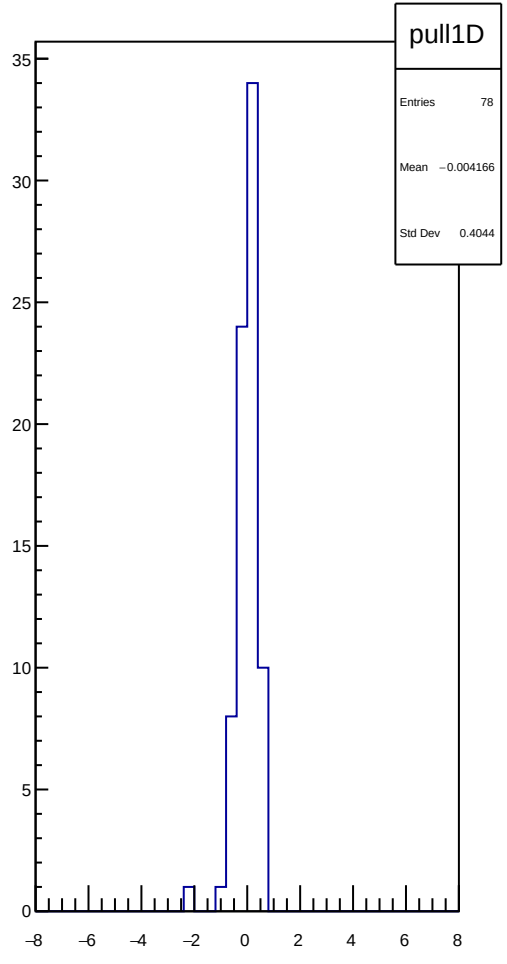

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 47.97 / 77
p0 0.4321± 0.01676
pull
Entries 78
Mean −304.4
Std Dev 346.2

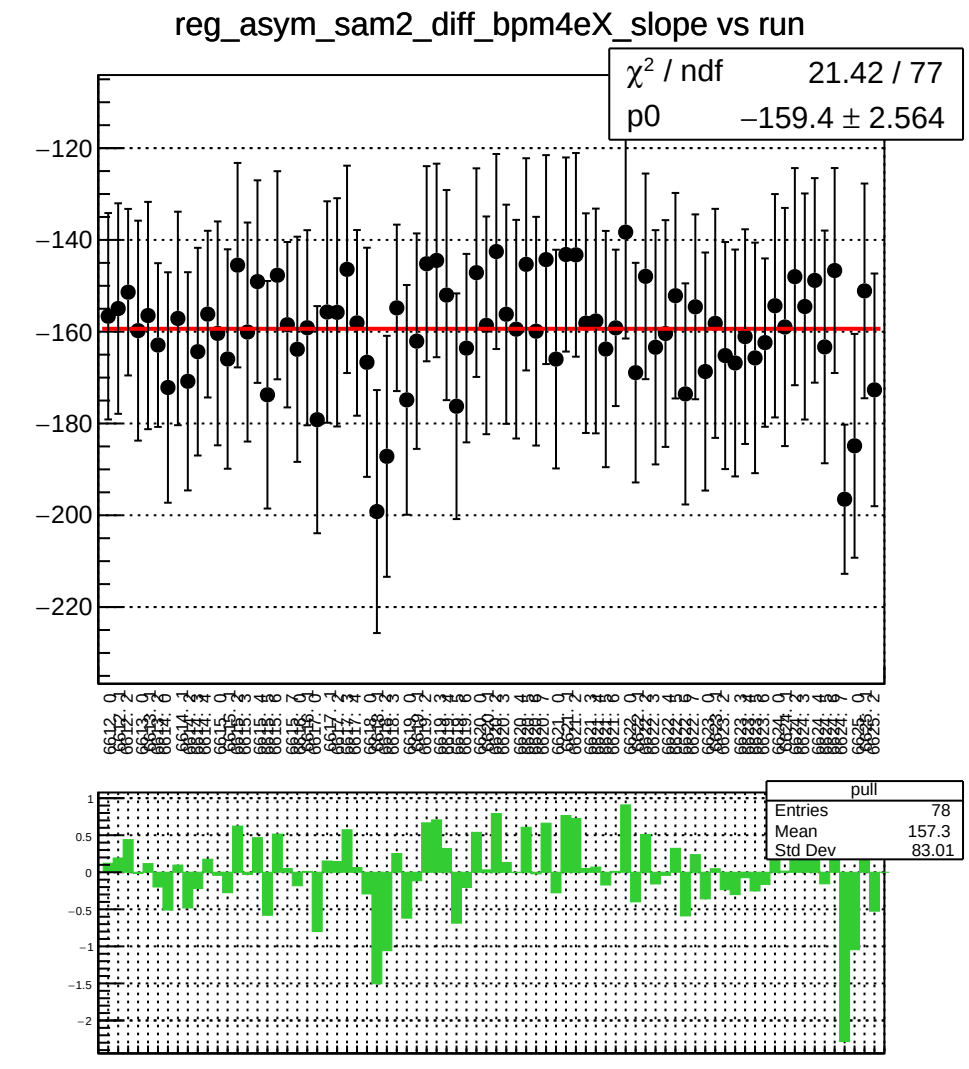

pull1D
Entries 78
Mean 0.02377
Std Dev 0.7838

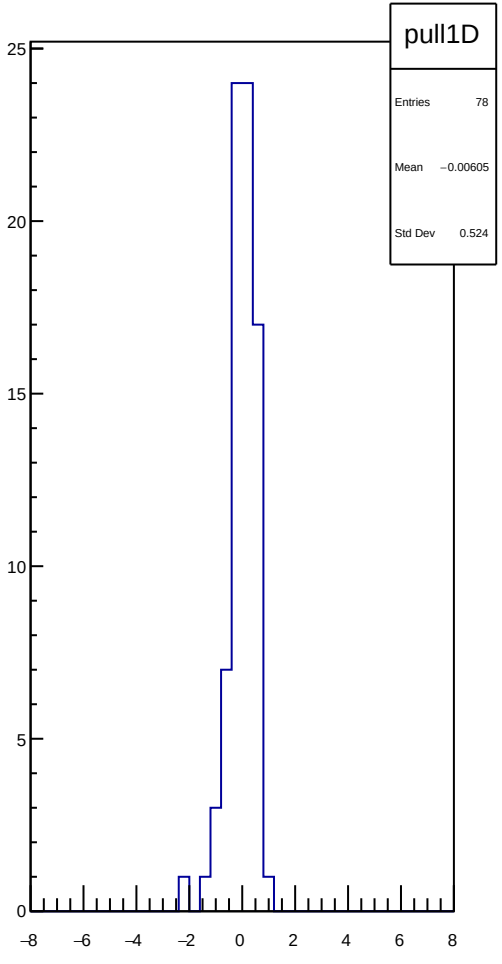

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 17.45 / 77
p0 −49.72 ± 2.405
pull
Entries 78
Mean 551.4
Std Dev 492.7

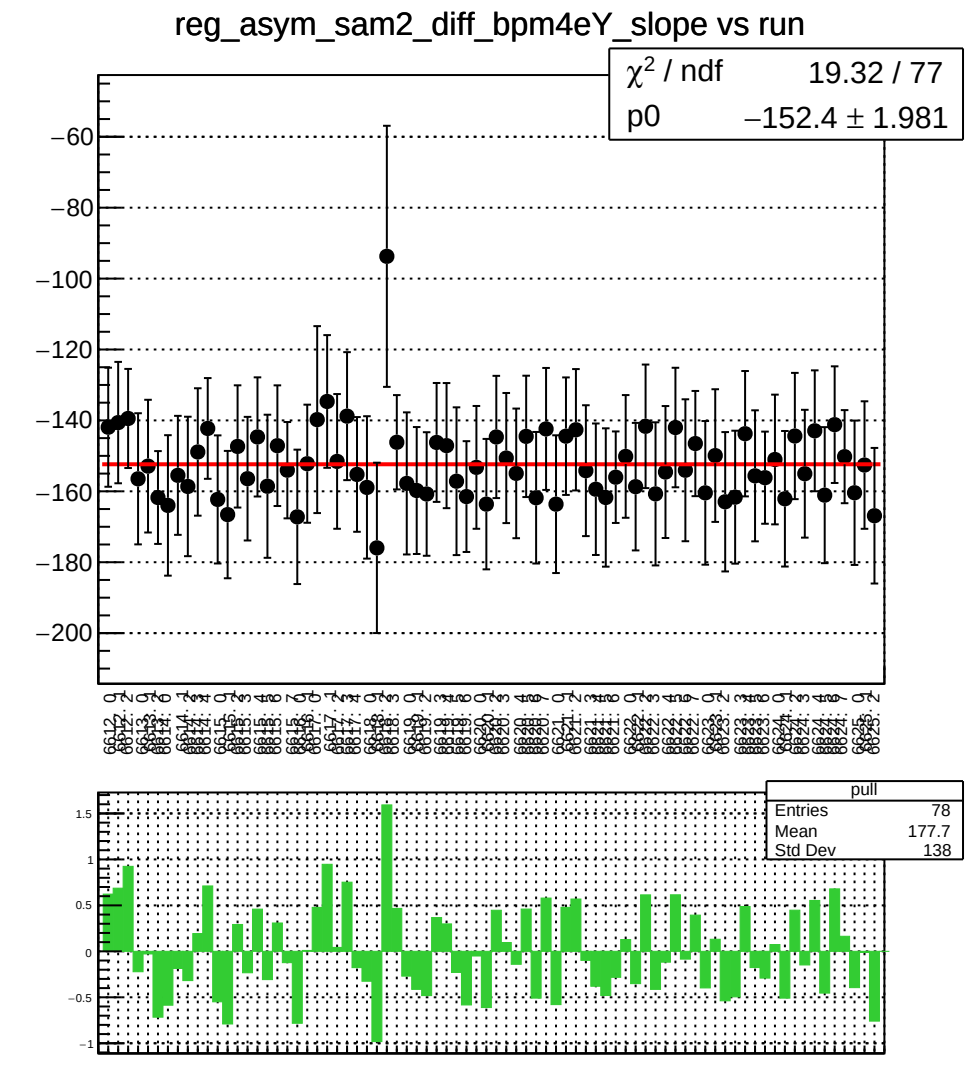

pull1D
Entries 78
Mean 0.002216
Std Dev 0.473

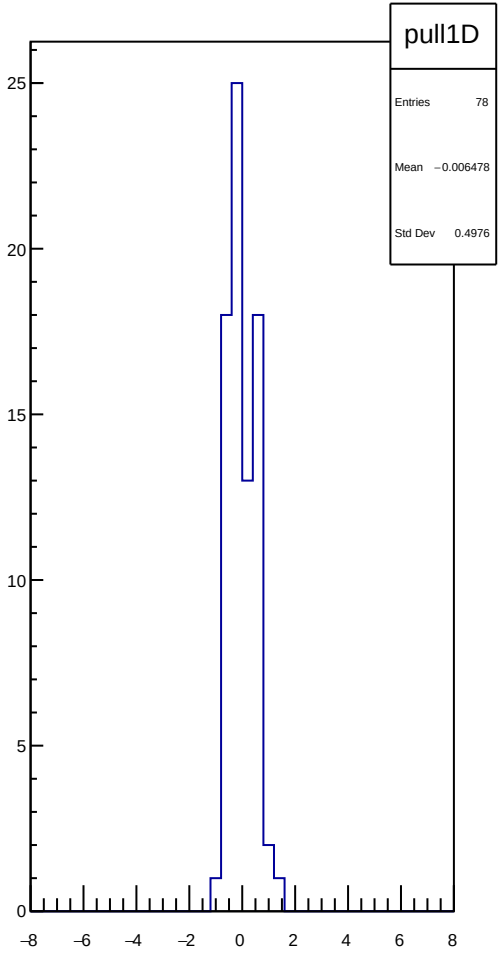

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 12.76 / 77
p0 −33.6 ± 1.647
pull
Entries 78
Mean −199.8
Std Dev 237.5

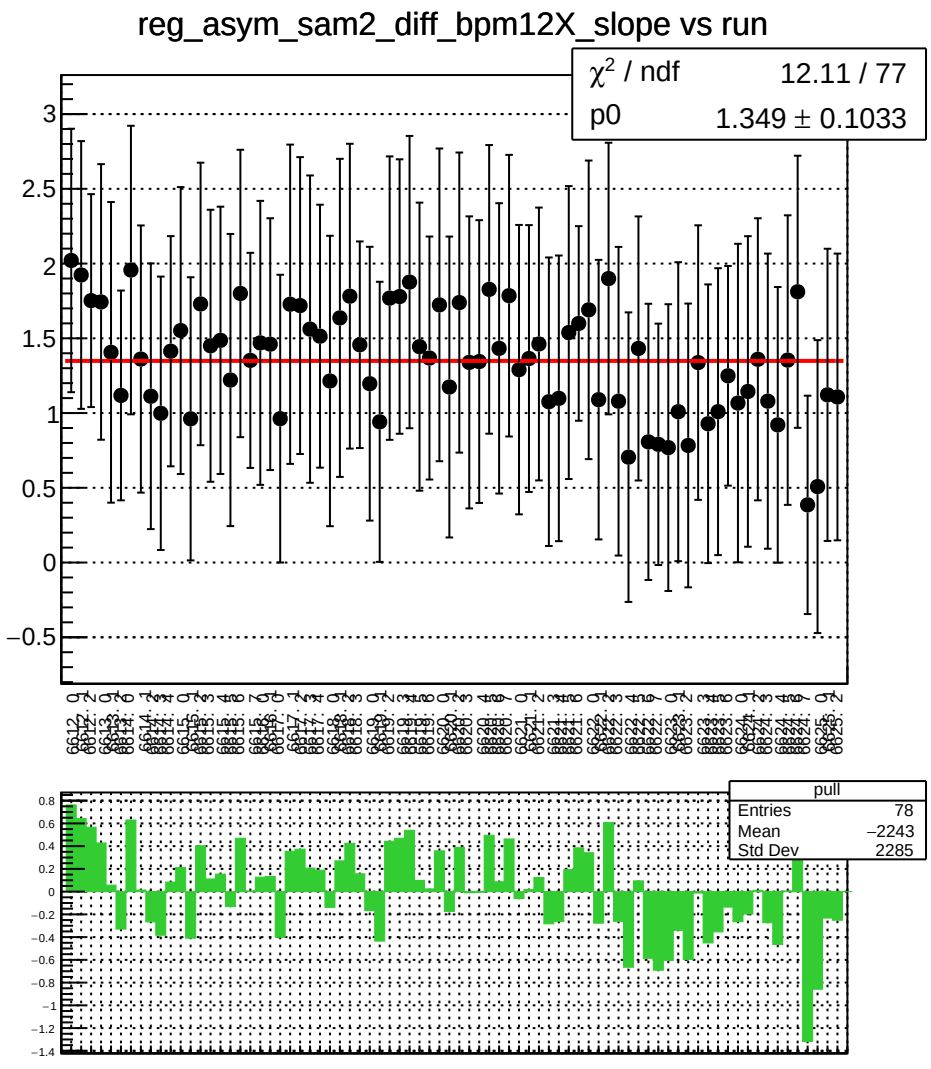

pull1D
Entries 78
Mean −0.004166
Std Dev 0.4044

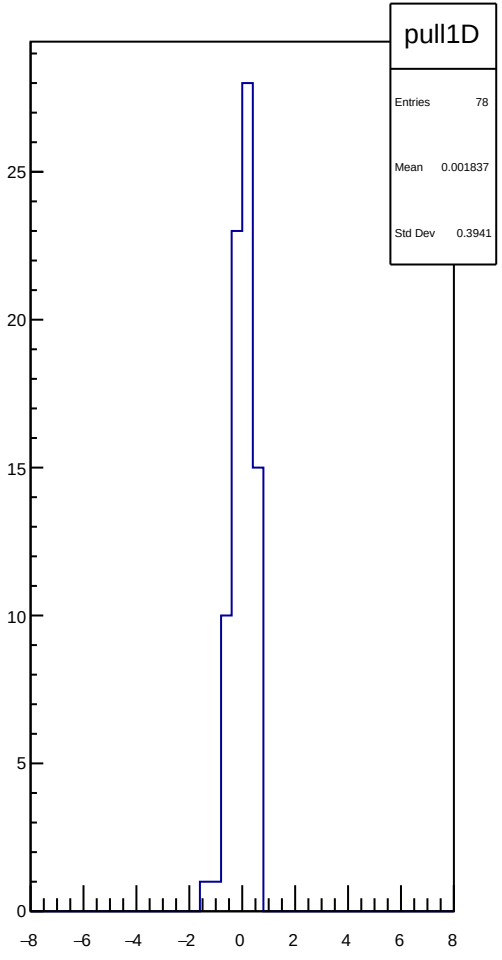

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 21.42 / 77
p0 −159.4 ± 2.564
pull
Entries 78
Mean 157.3
Std Dev 83.01

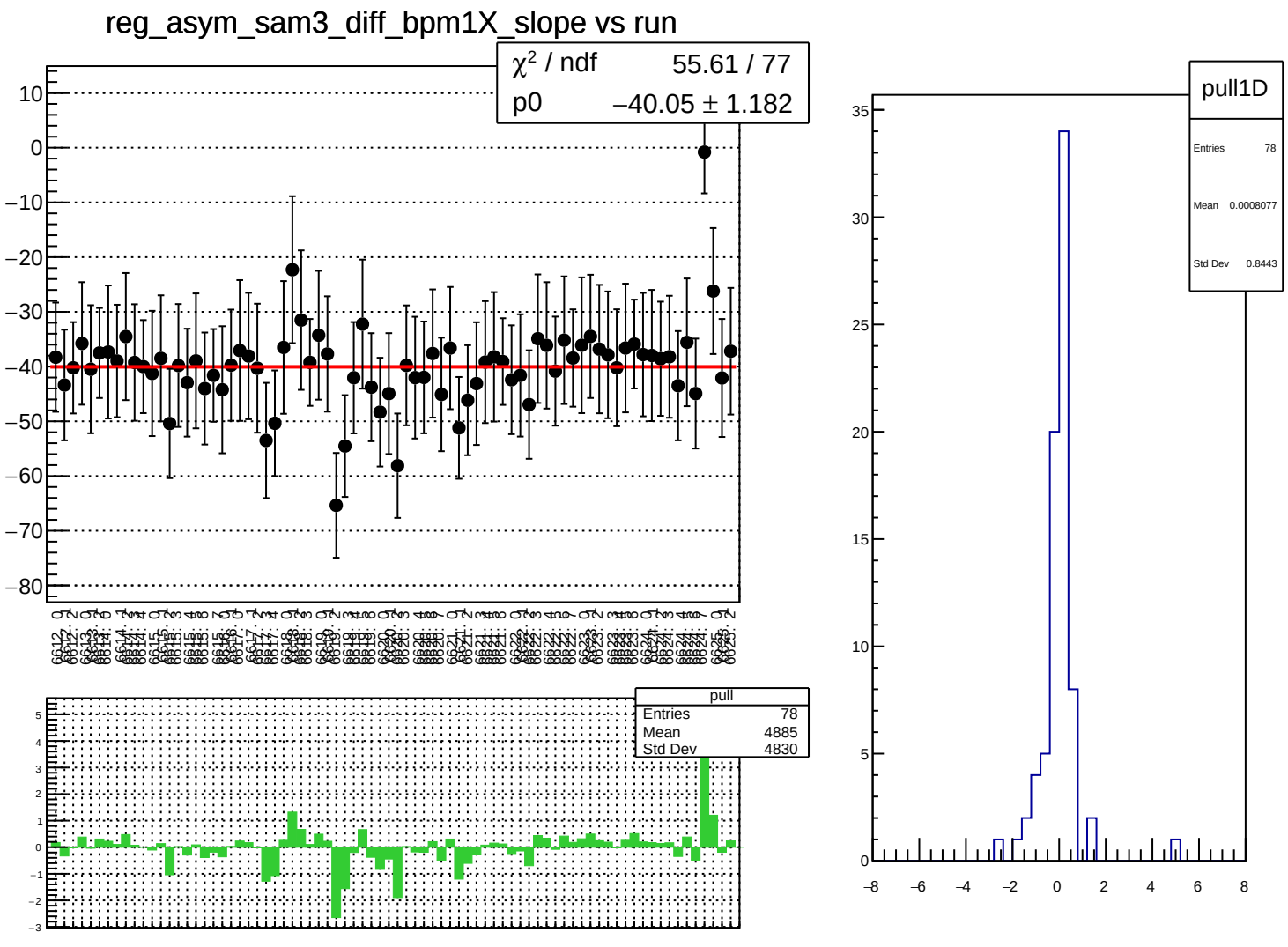

pull1D
Entries 78
Mean −0.00605
Std Dev 0.524

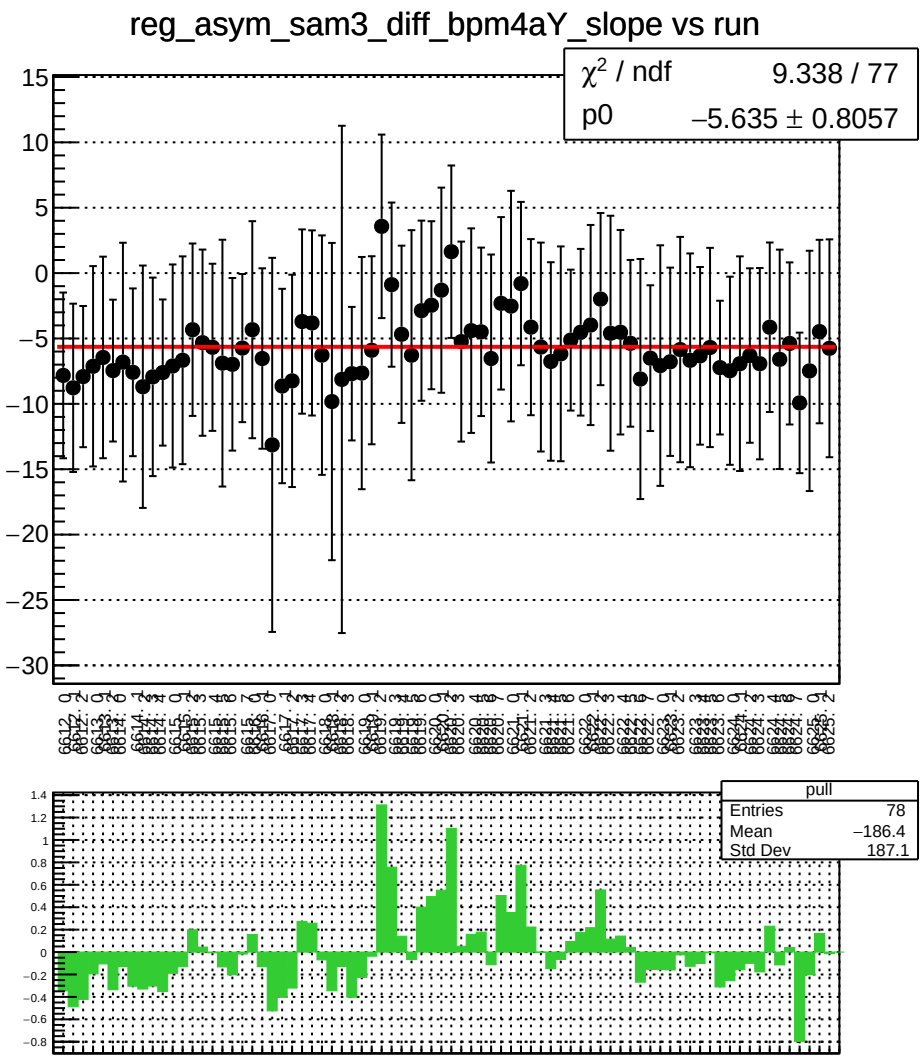

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 19.32 / 77
p0 −152.4 ± 1.981
pull
Entries 78
Mean 177.7
Std Dev 138

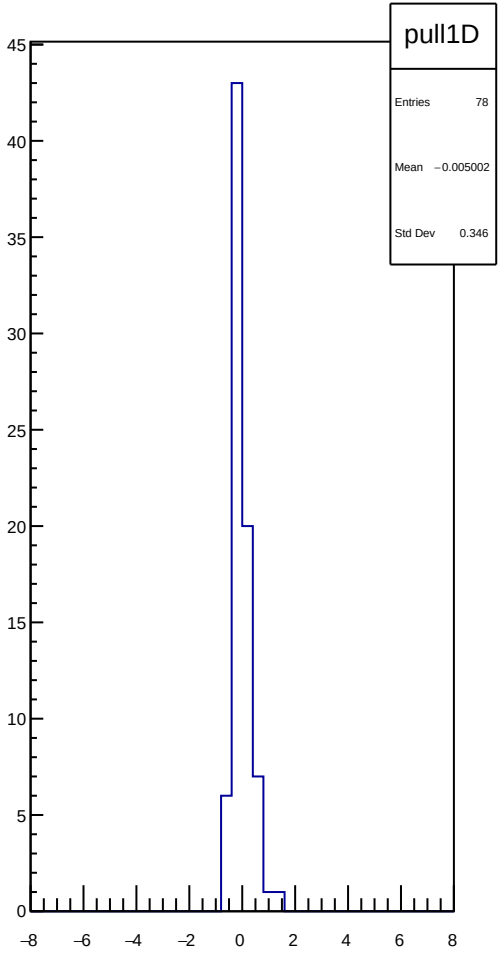

pull1D
Entries 78
Mean −0.006478
Std Dev 0.4976

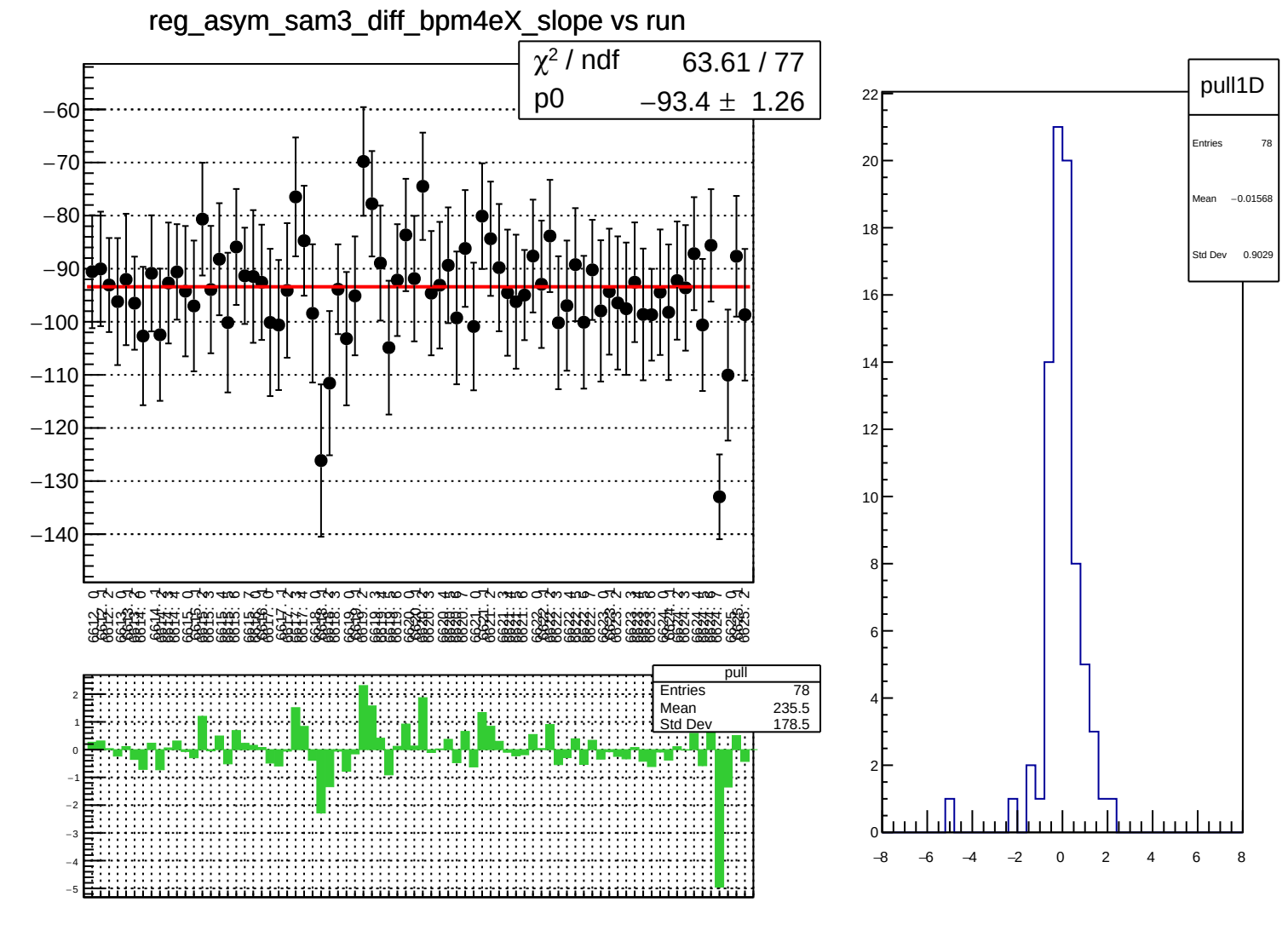

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 12.11 / 77
p0 1.349 ± 0.1033
pull
Entries 78
Mean −2243
Std Dev 2285

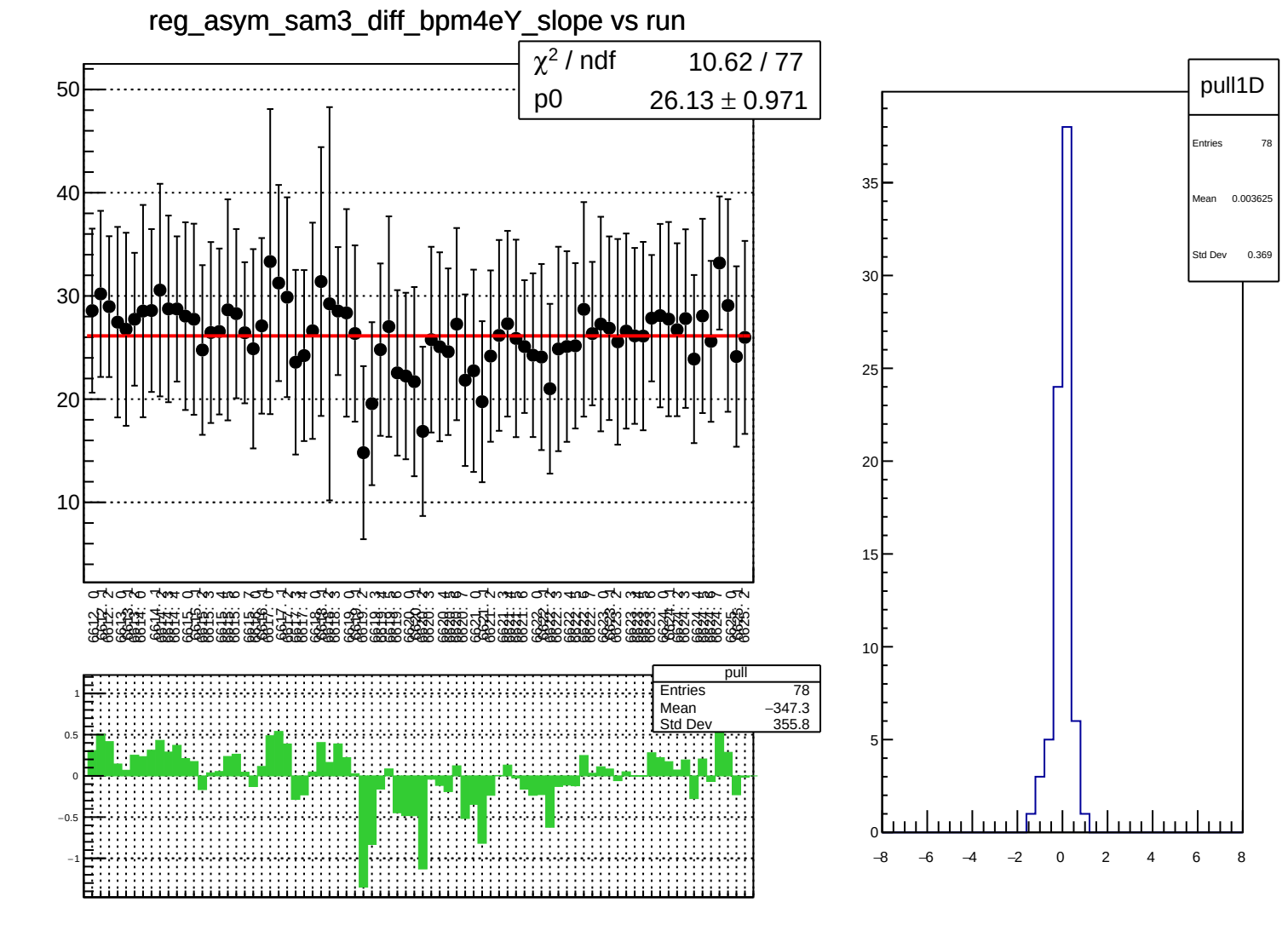

pull1D
Entries 78
Mean 0.001837
Std Dev 0.3941

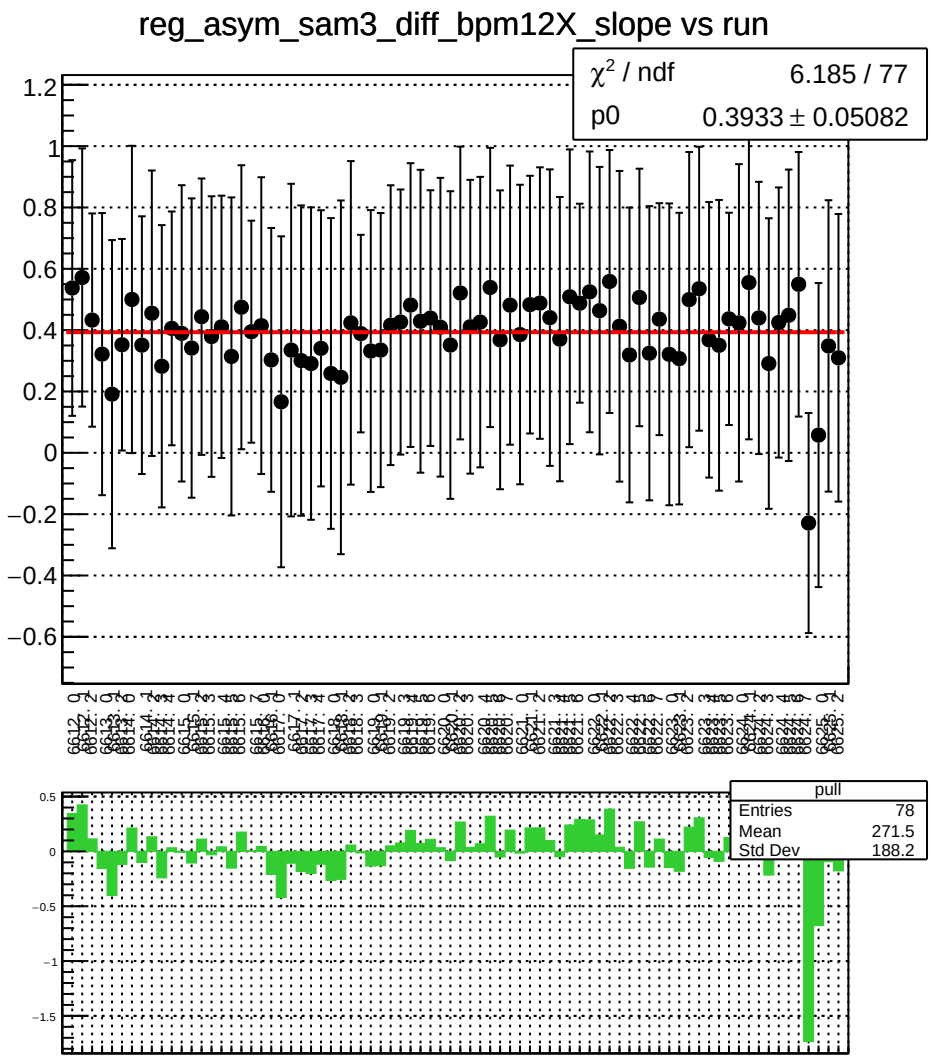

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 55.61 / 77
p0 −40.05 ± 1.182
pull
Entries 78
Mean 4885
Std Dev 4830
pull1D
Entries 78
Mean 0.0008077
Std Dev 0.8443

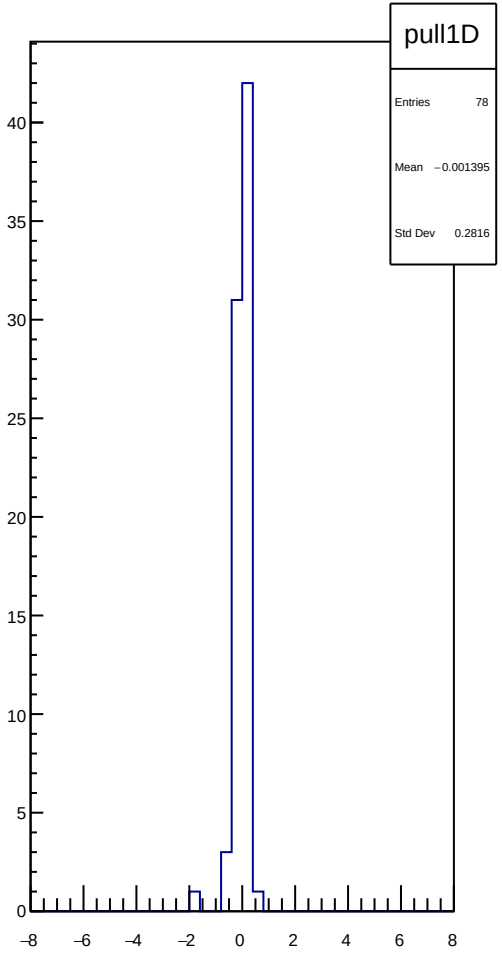

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 9.338 / 77
p0 −5.635 ± 0.8057
pull
Entries 78
Mean −186.4
Std Dev 187.1

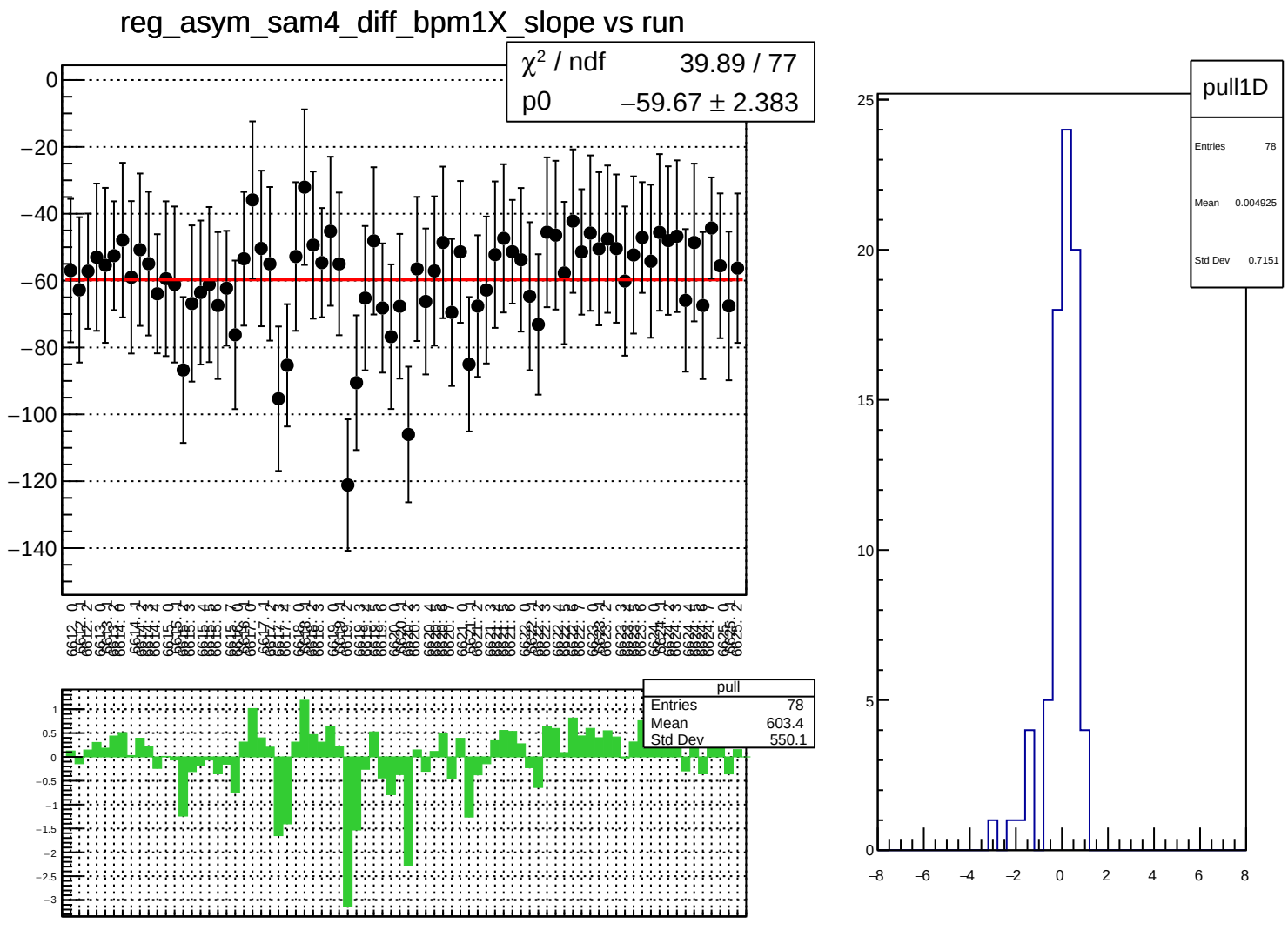

pull1D
Entries 78
Mean −0.005002
Std Dev 0.346

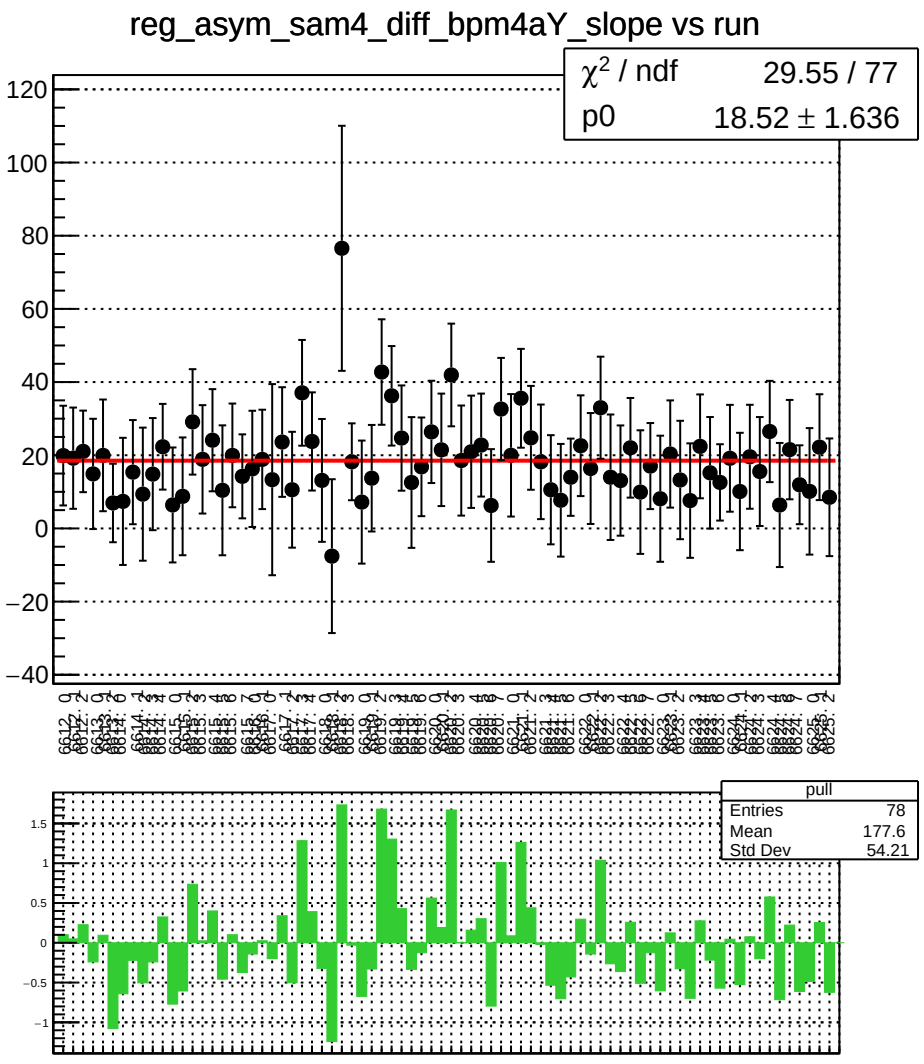

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 63.61 / 77
p0 −93.4 ± 1.26
pull
Entries 78
Mean 235.5
Std Dev 178.5
pull1D
Entries 78
Mean −0.01568
Std Dev 0.9029

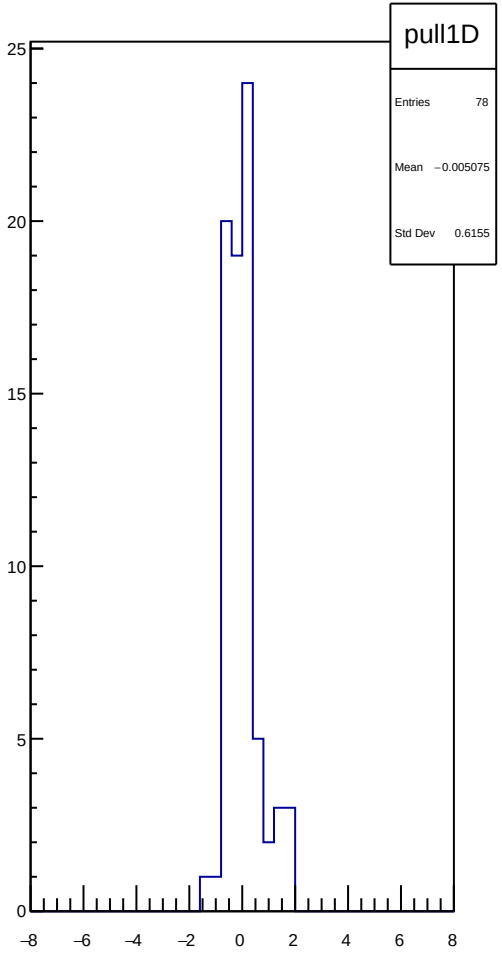

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 10.62 / 77
p0 26.13 ± 0.971
pull
Entries 78
Mean −347.3
Std Dev 355.8
pull1D
Entries 78
Mean 0.003625
Std Dev 0.369

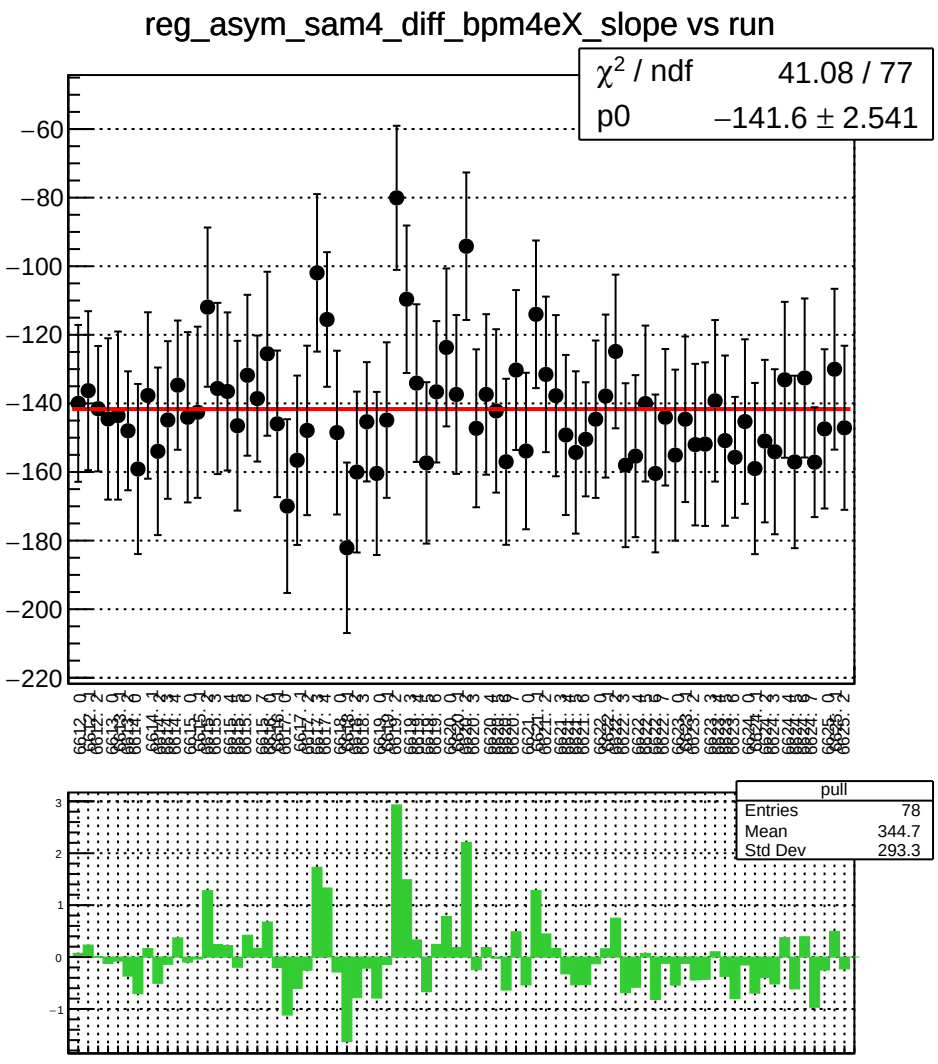

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 6.185 / 77
p0 0.3933 ± 0.05082
pull
Entries 78
Mean 271.5
Std Dev 188.2

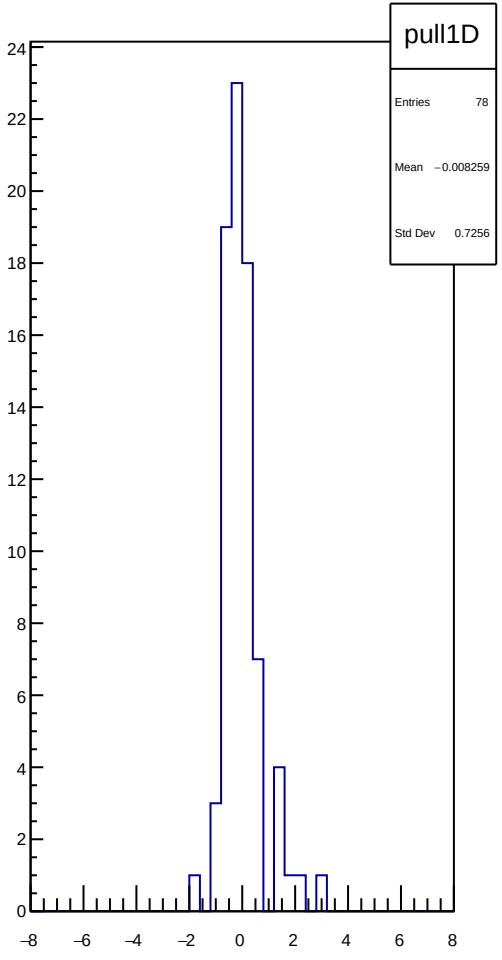

pull1D
Entries 78
Mean −0.001395
Std Dev 0.2816

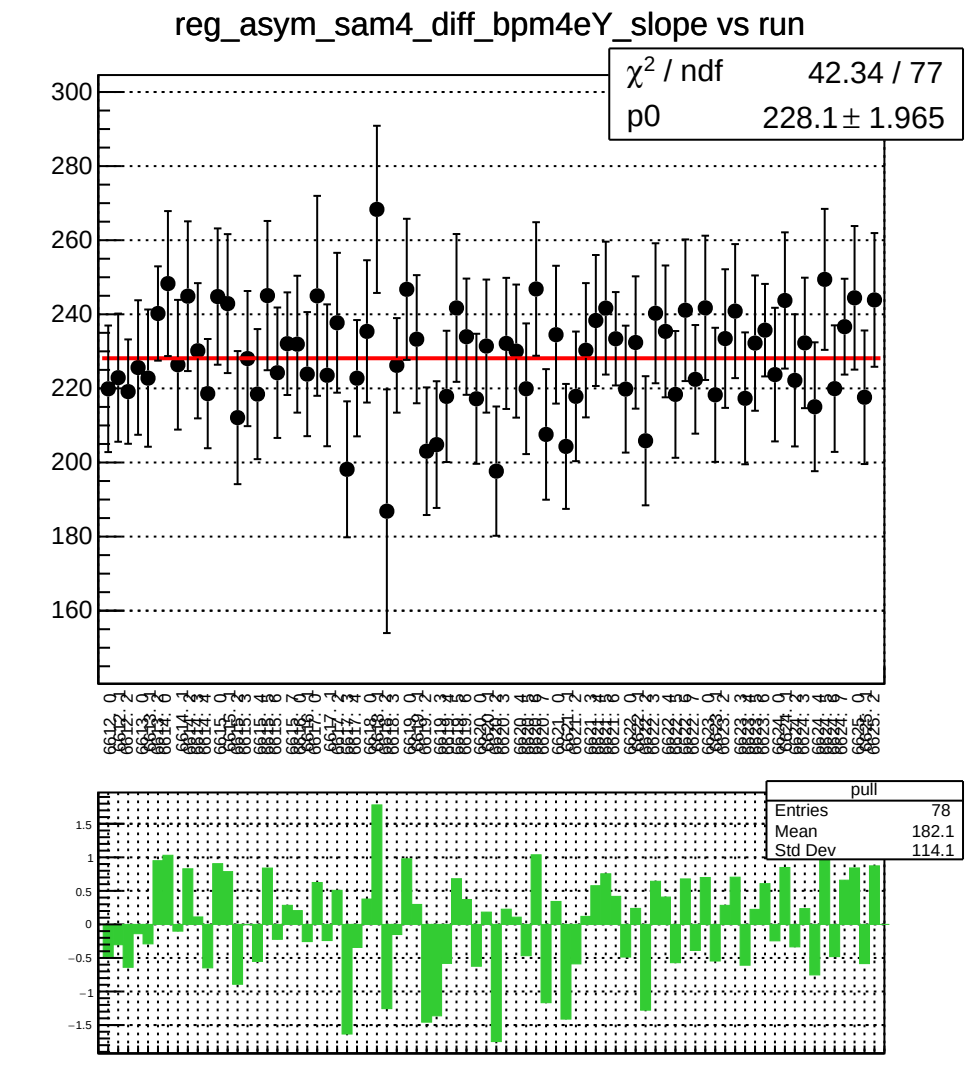

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 39.89 / 77
p0 −59.67 ± 2.383
pull
Entries 78
Mean 603.4
Std Dev 550.1
pull1D
Entries 78
Mean 0.004925
Std Dev 0.7151

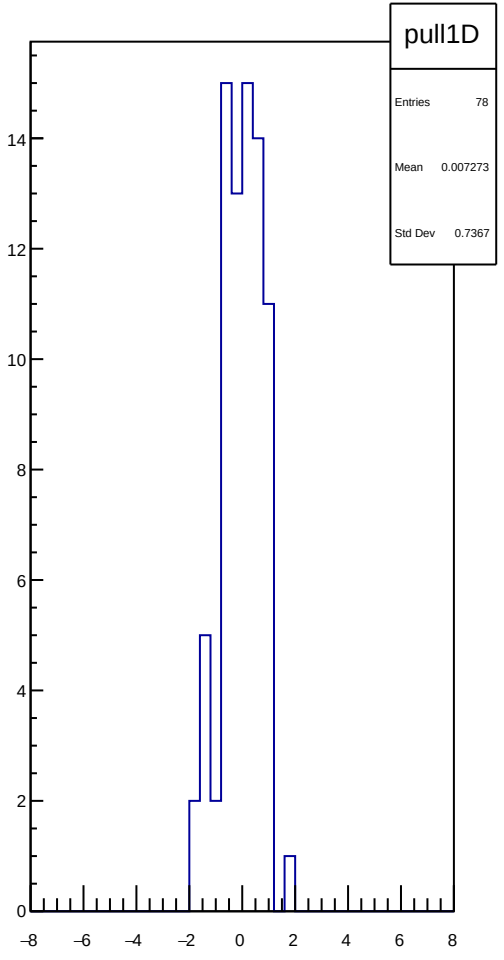

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 29.55 / 77
p0 18.52 ± 1.636
pull
Entries 78
Mean 177.6
Std Dev 54.21

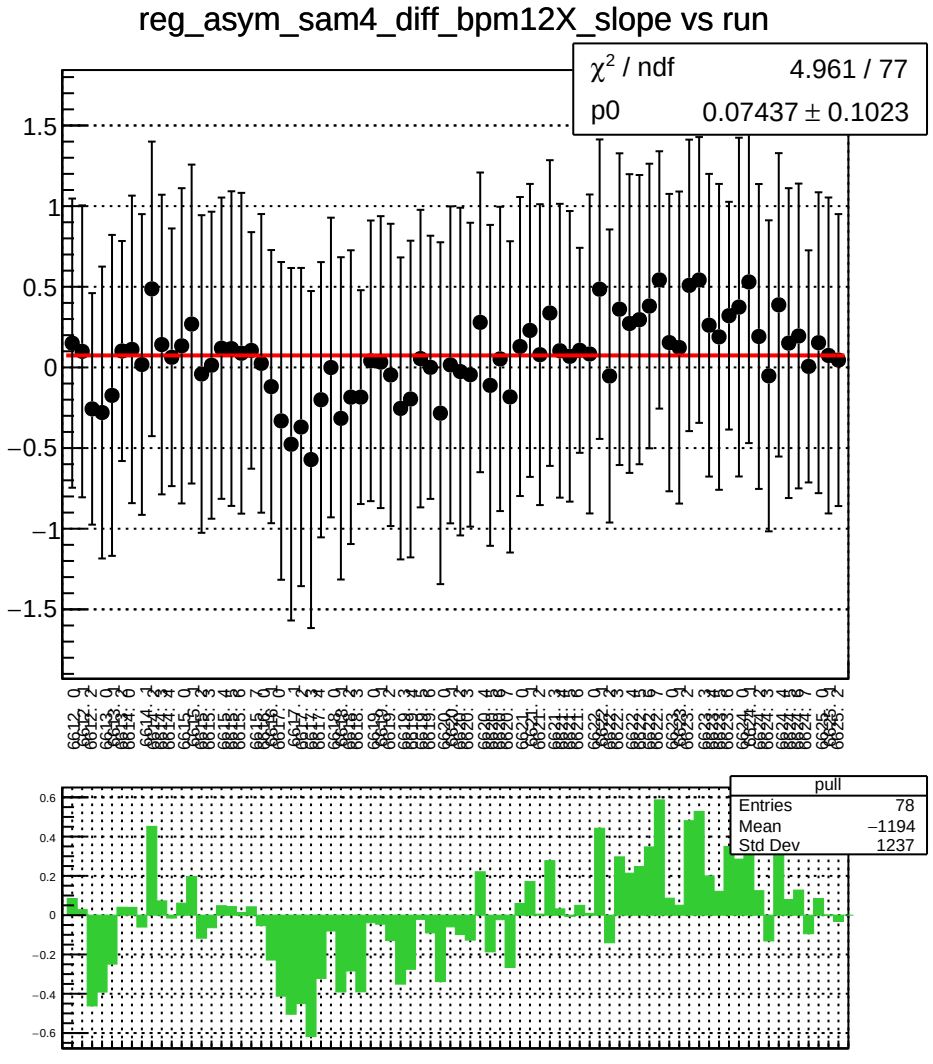

pull1D
Entries 78
Mean −0.005075
Std Dev 0.6155

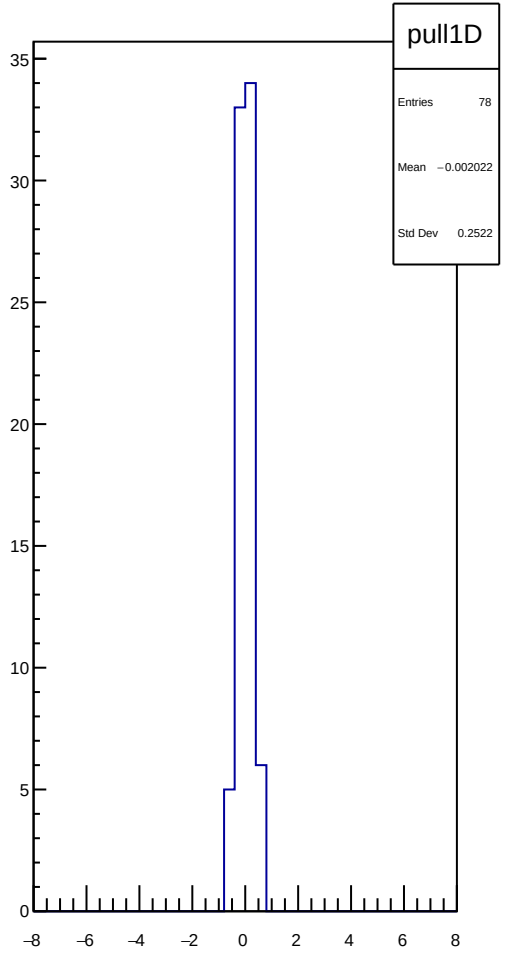

reg_asym_sam4_diff_bpm4eX_slope vs run
χ^2 / ndf 41.08 / 77
p0 −141.6 ± 2.541
pull
Entries 78
Mean 344.7
Std Dev 293.3

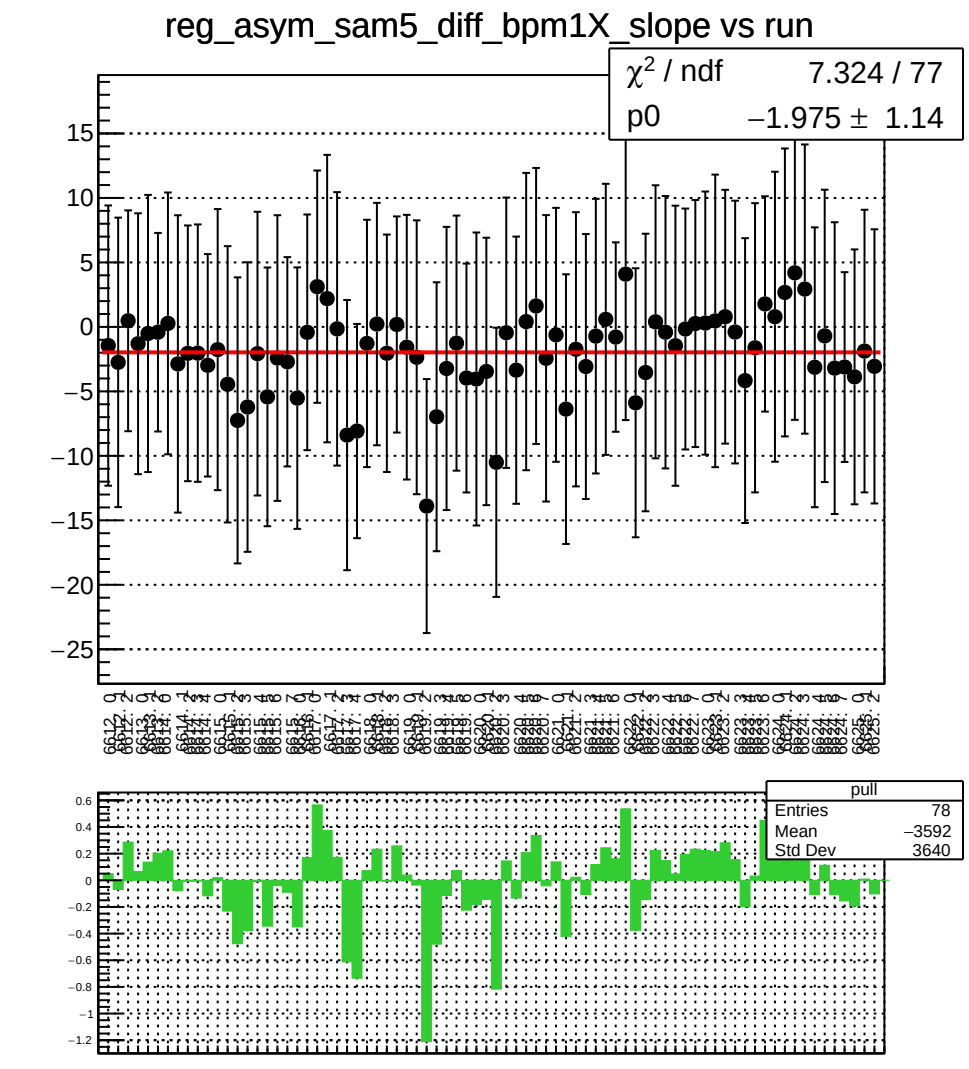

pull1D
Entries 78
Mean −0.008259
Std Dev 0.7256

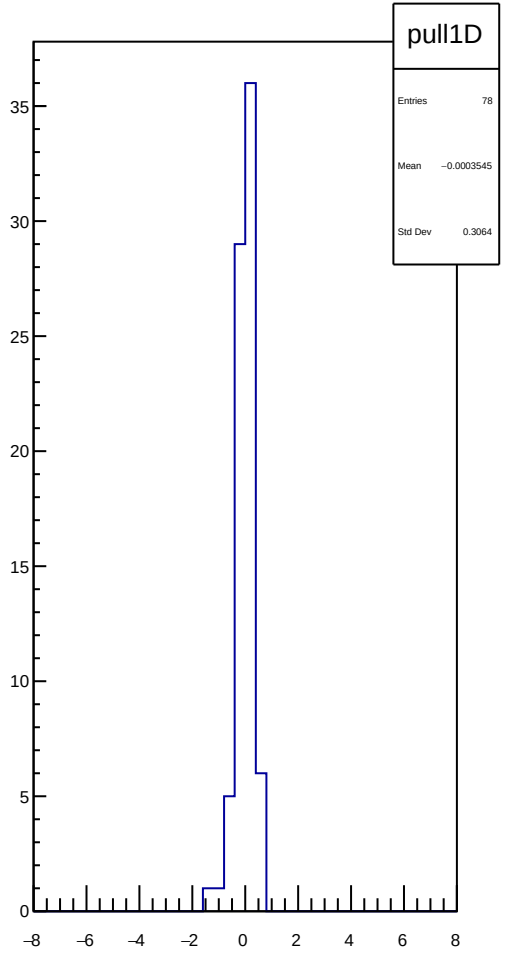

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 42.34 / 77
p0 228.1 ± 1.965
pull
Entries 78
Mean 182.1
Std Dev 114.1

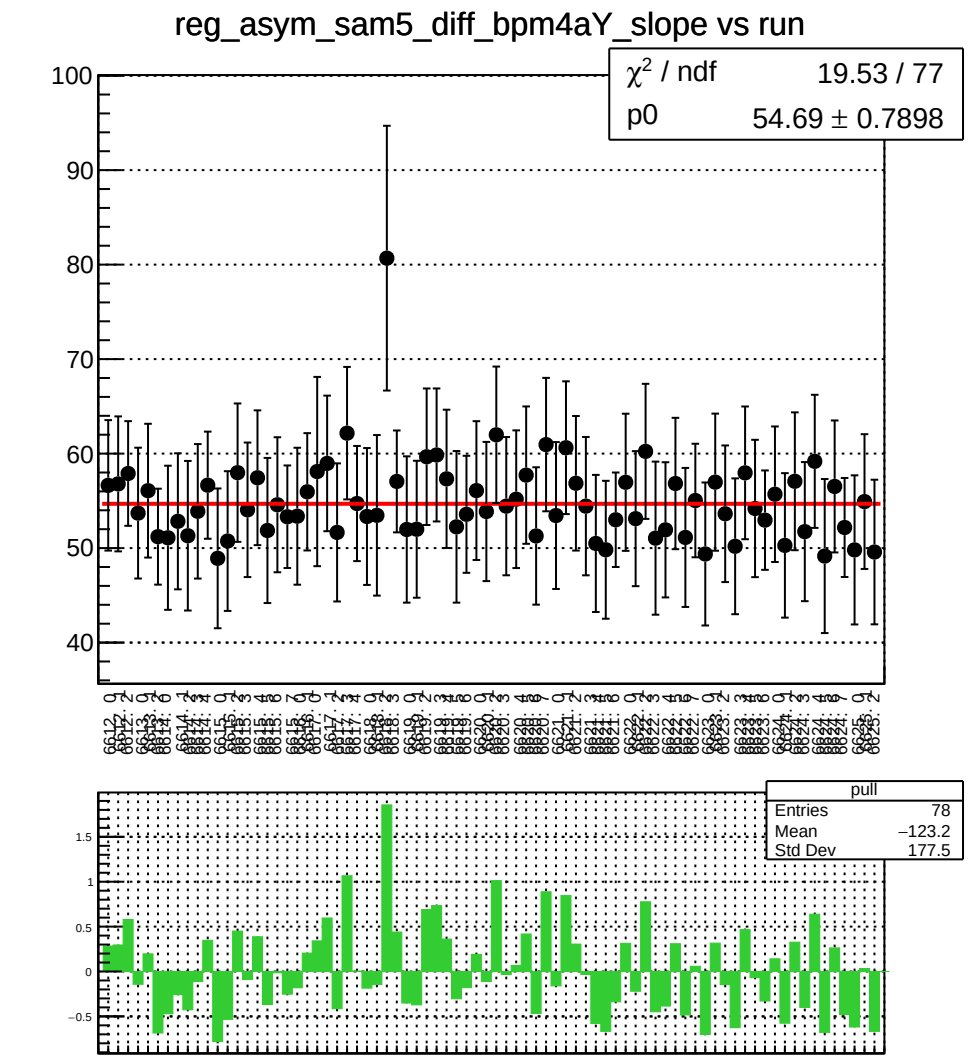

pull1D
Entries 78
Mean 0.007273
Std Dev 0.7367

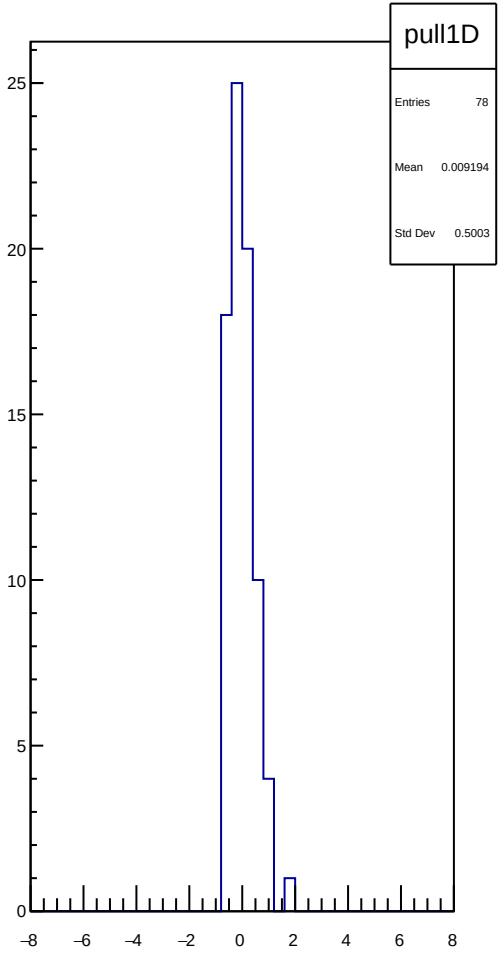

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 4.961 / 77
p0 0.07437 ± 0.1023
pull
Entries 78
Mean −1194
Std Dev 1237

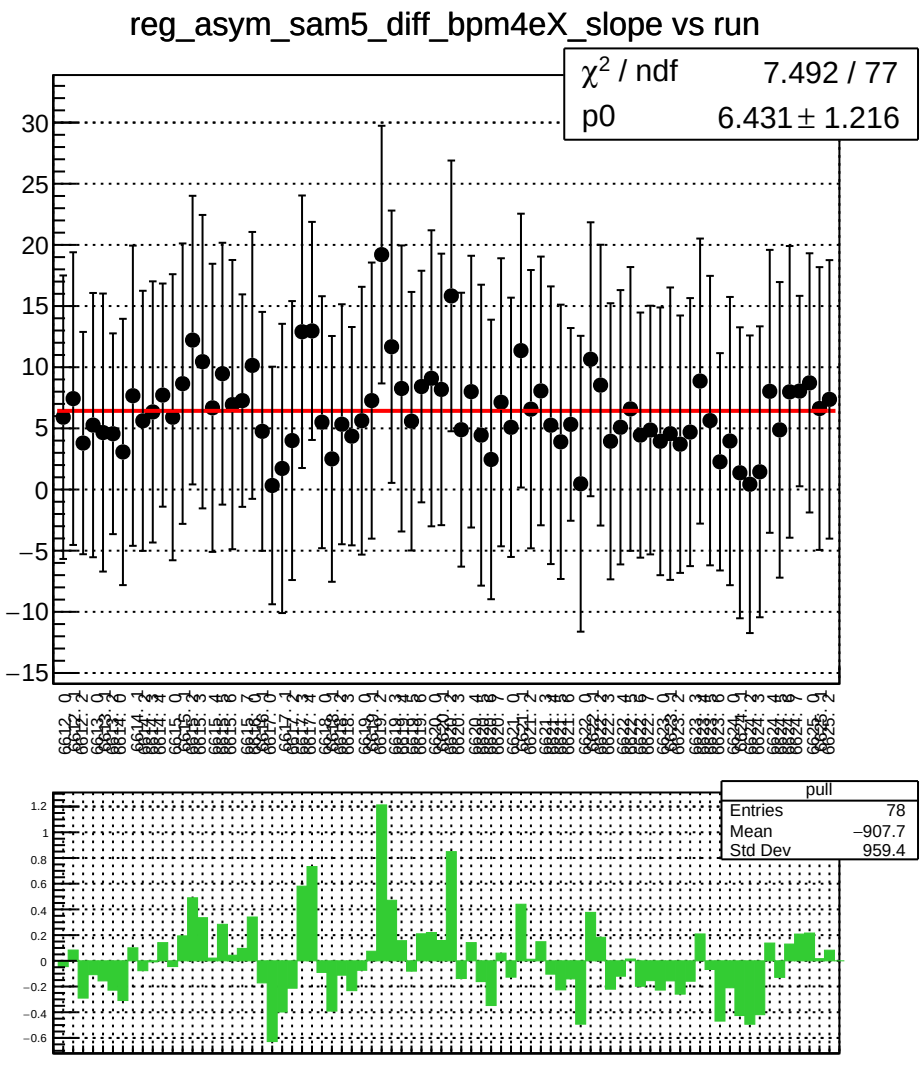

pull1D
Entries 78
Mean −0.002022
Std Dev 0.2522

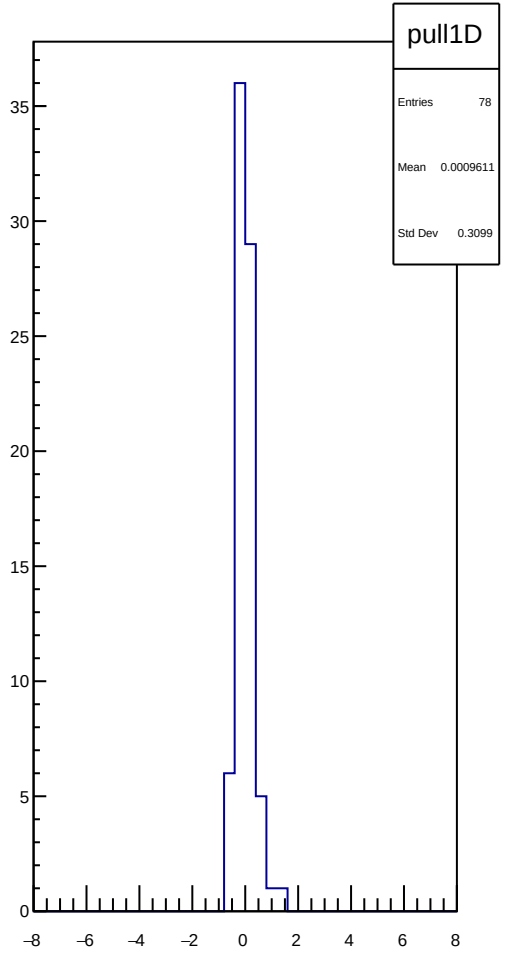

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 7.324 / 77
p0 −1.975 ± 1.14
pull
Entries 78
Mean −3592
Std Dev 3640

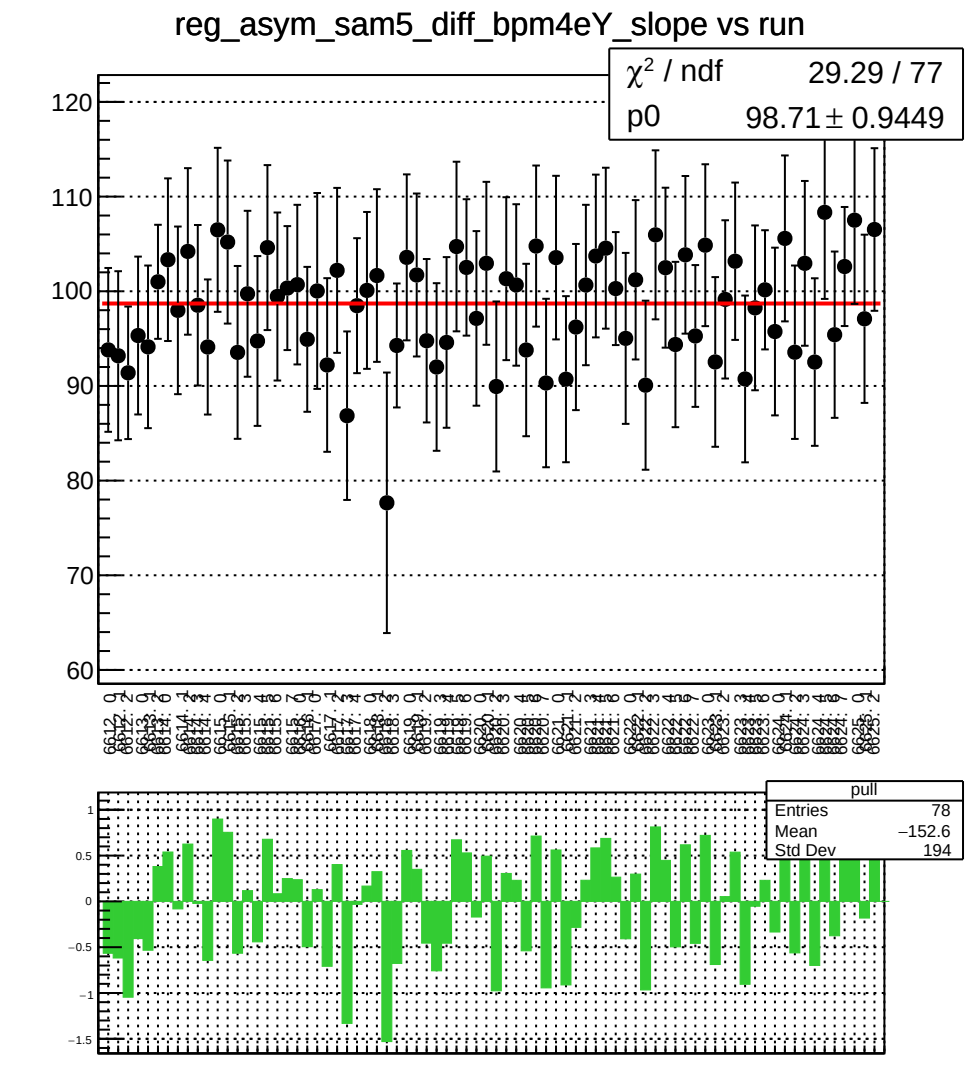

pull1D
Entries 78
Mean −0.0003545
Std Dev 0.3064

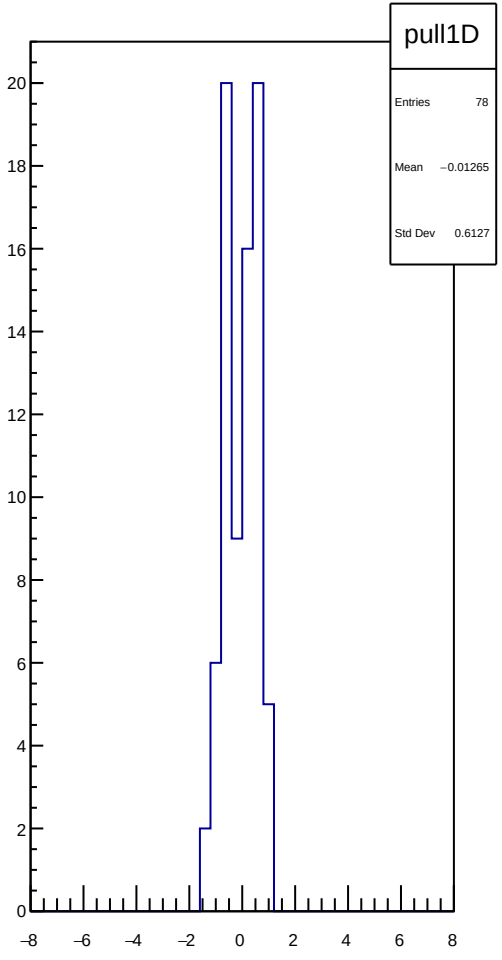

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 19.53 / 77
p0 54.69 ± 0.7898
pull
Entries 78
Mean −123.2
Std Dev 177.5

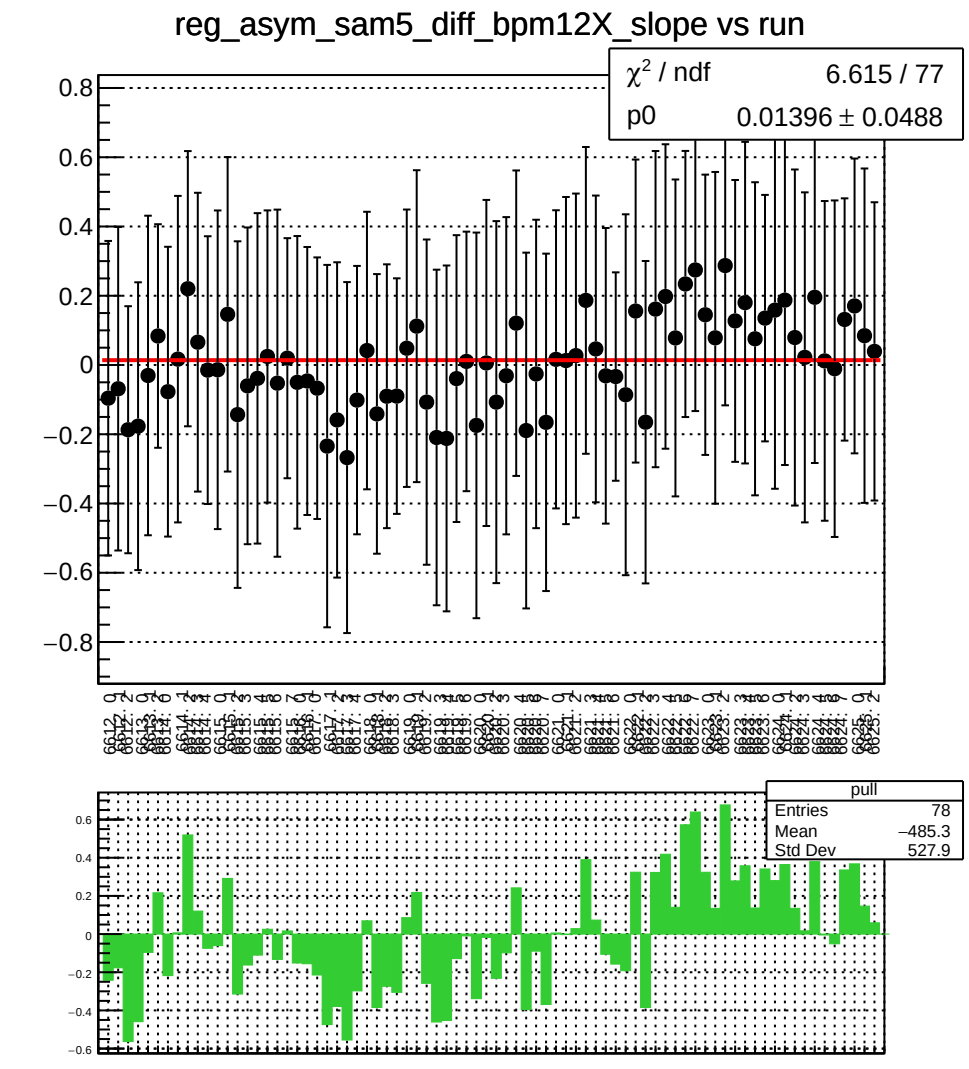

pull1D
Entries 78
Mean 0.009194
Std Dev 0.5003

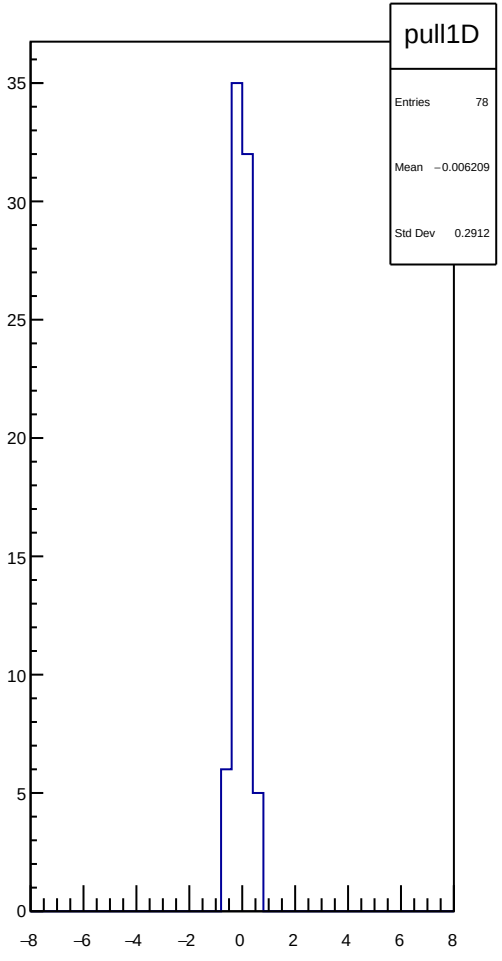

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 7.492 / 77
p0 6.431 ± 1.216
pull
Entries 78
Mean −907.7
Std Dev 959.4

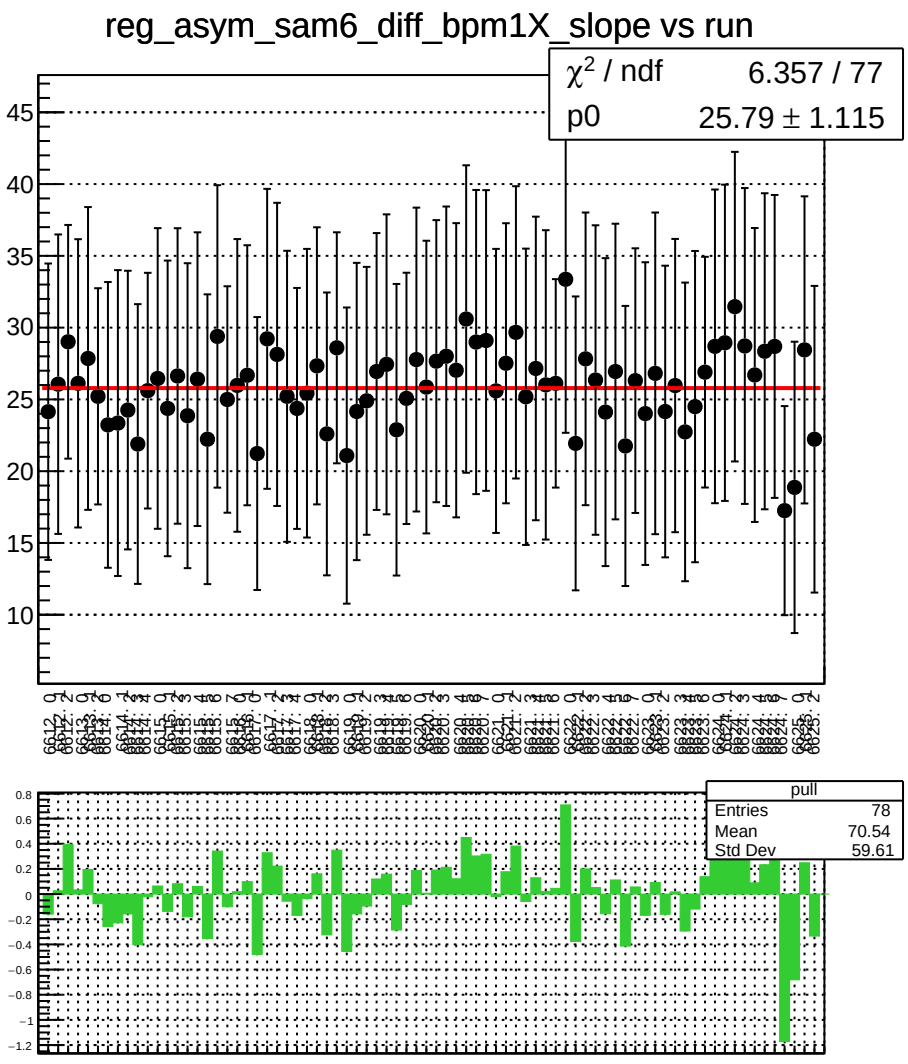

pull1D
Entries 78
Mean 0.0009611
Std Dev 0.3099

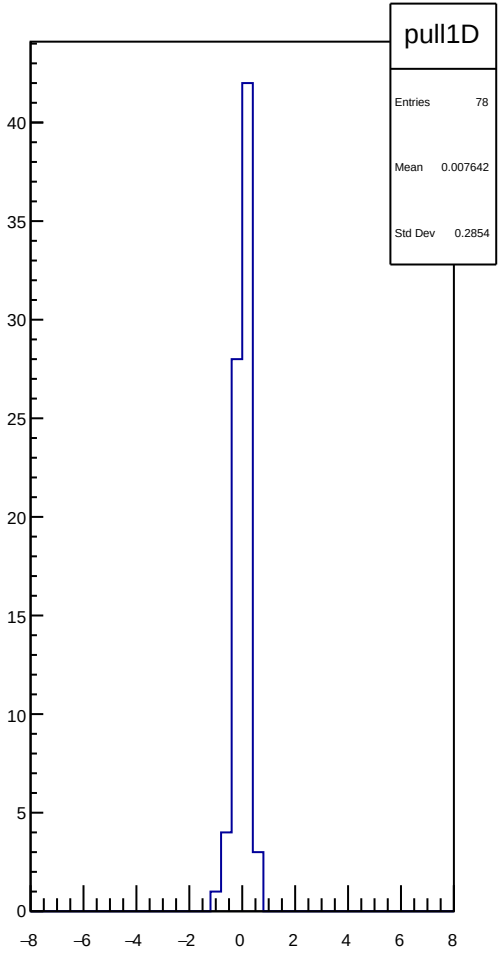

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 29.29 / 77
p0 98.71 ± 0.9449
pull
Entries 78
Mean −152.6
Std Dev 194

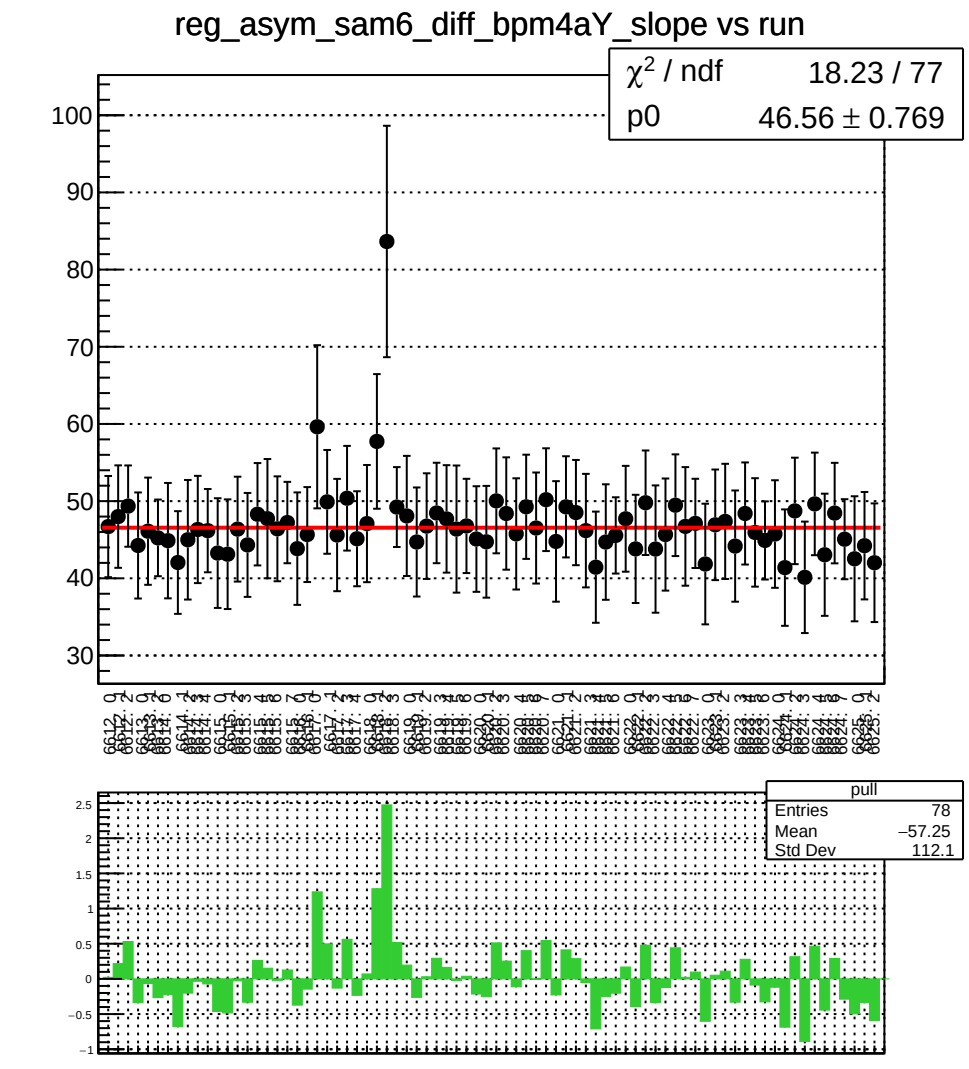

pull1D
Entries 78
Mean −0.01265
Std Dev 0.6127

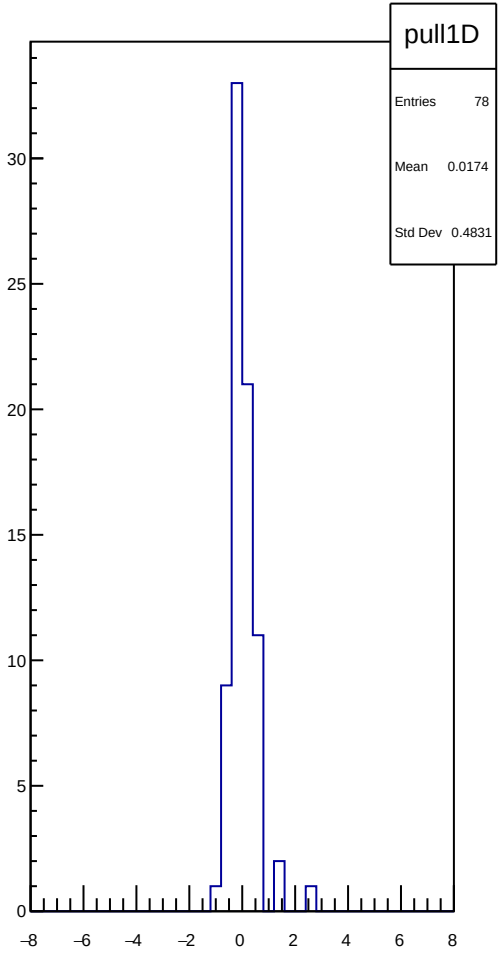

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 6.615 / 77
p0 0.01396 ± 0.0488
pull
Entries 78
Mean −485.3
Std Dev 527.9

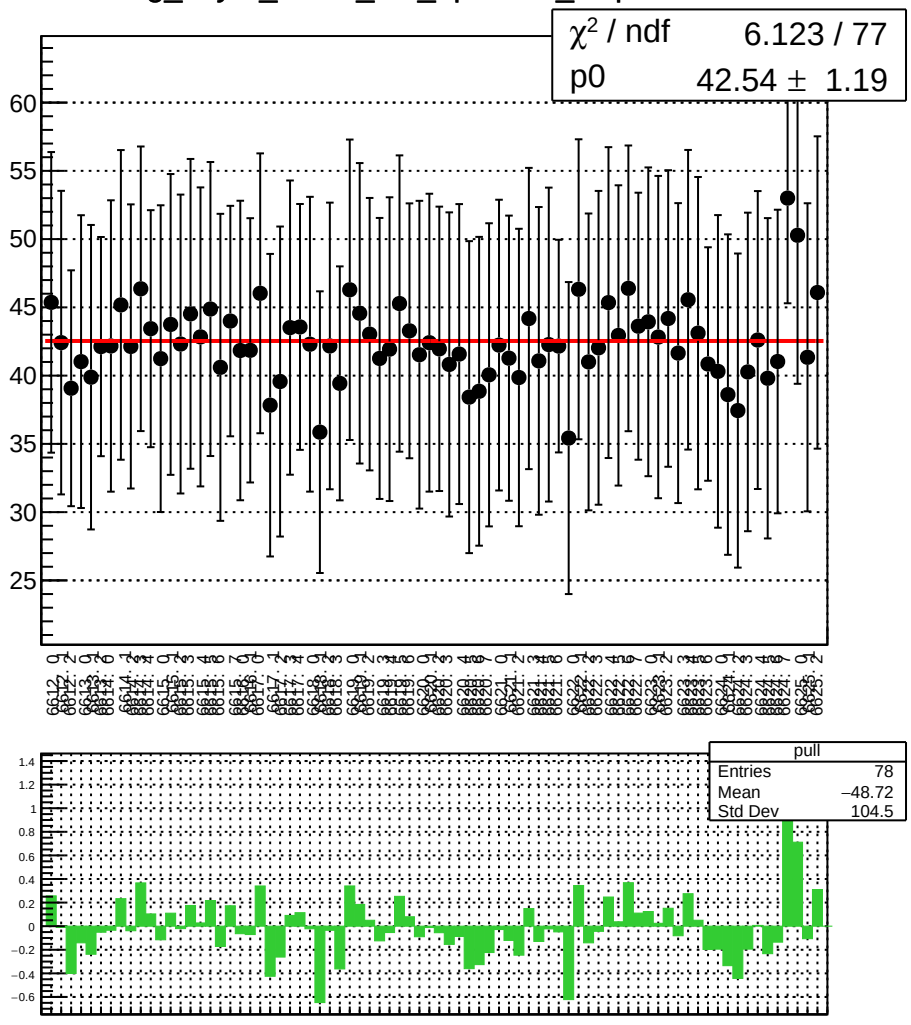

pull1D
Entries 78
Mean −0.006209
Std Dev 0.2912

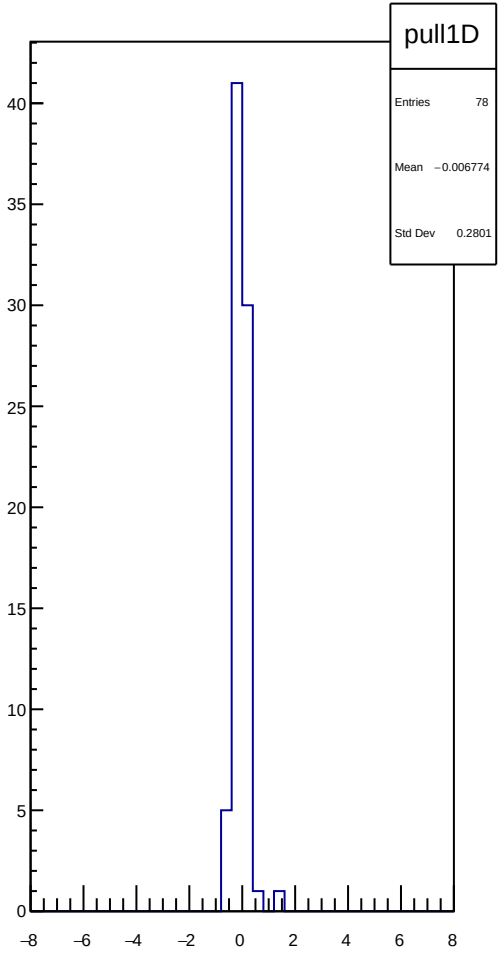

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 6.357 / 77
p0 25.79 ± 1.115
pull
Entries 78
Mean 70.54
Std Dev 59.61

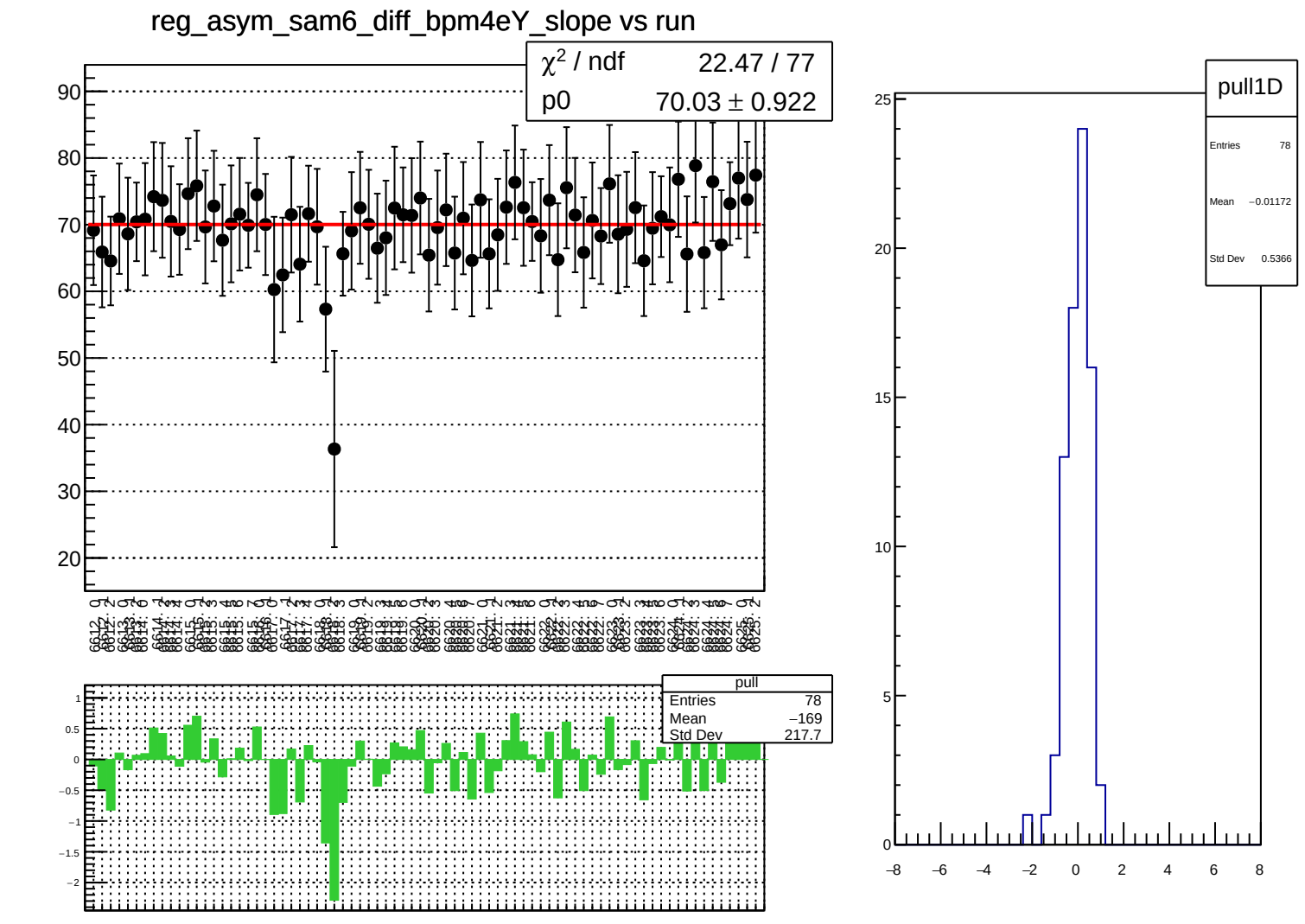

pull1D
Entries 78
Mean 0.007642
Std Dev 0.2854

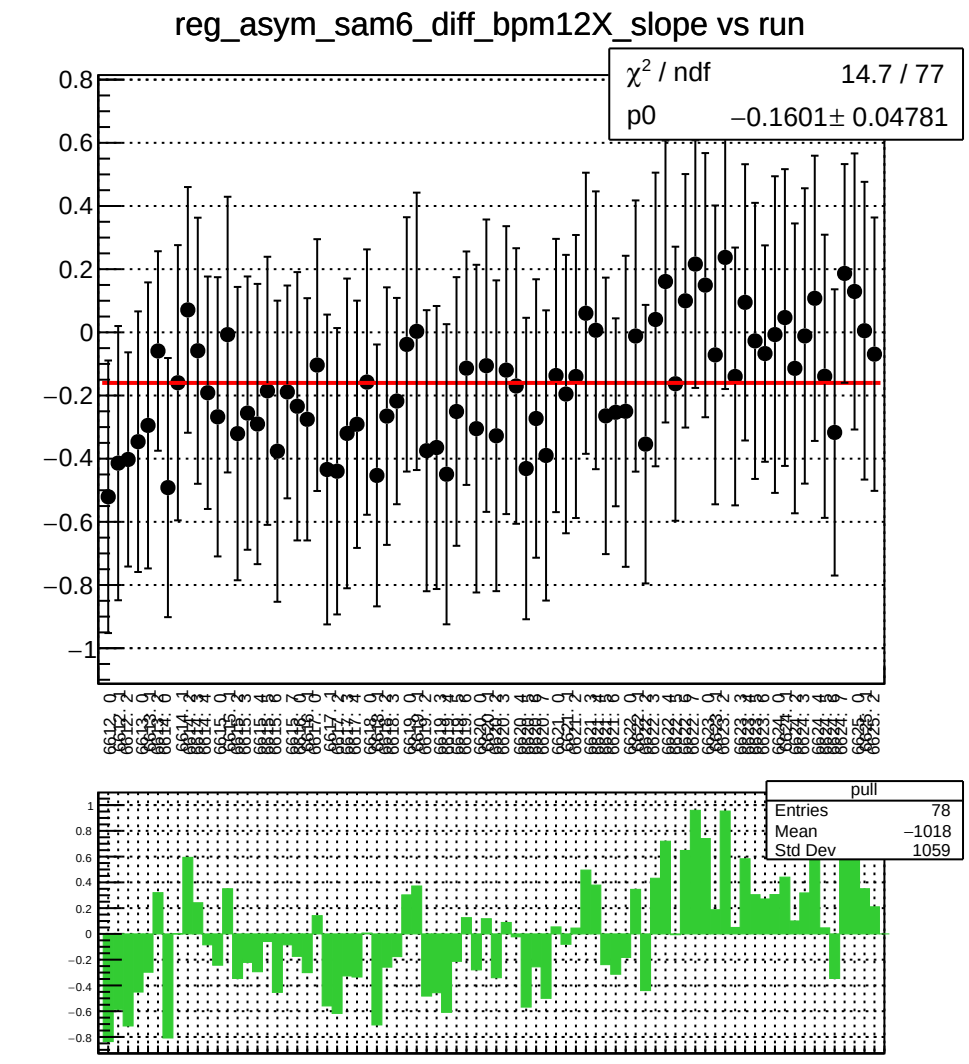

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 18.23 / 77
p0 46.56 ± 0.769
pull
Entries 78
Mean −57.25
Std Dev 112.1

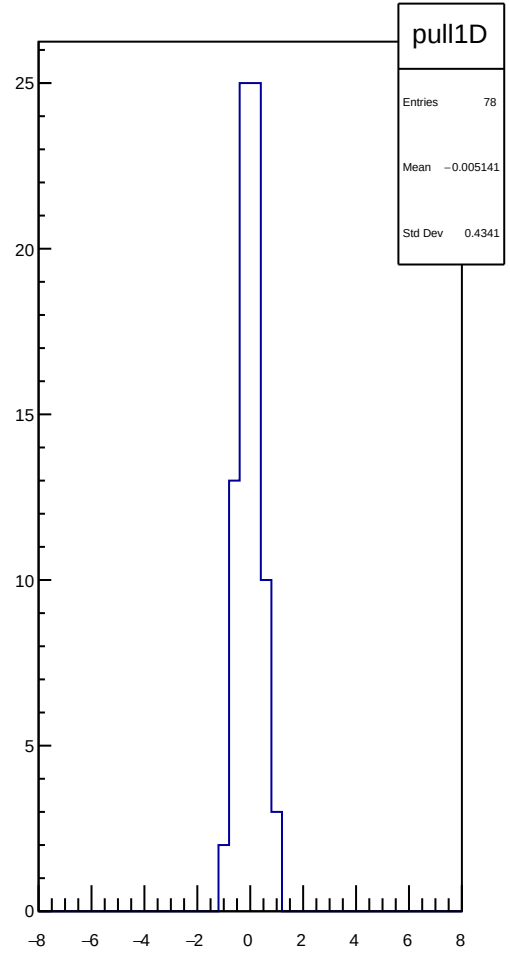

pull1D
Entries 78
Mean 0.0174
Std Dev 0.4831

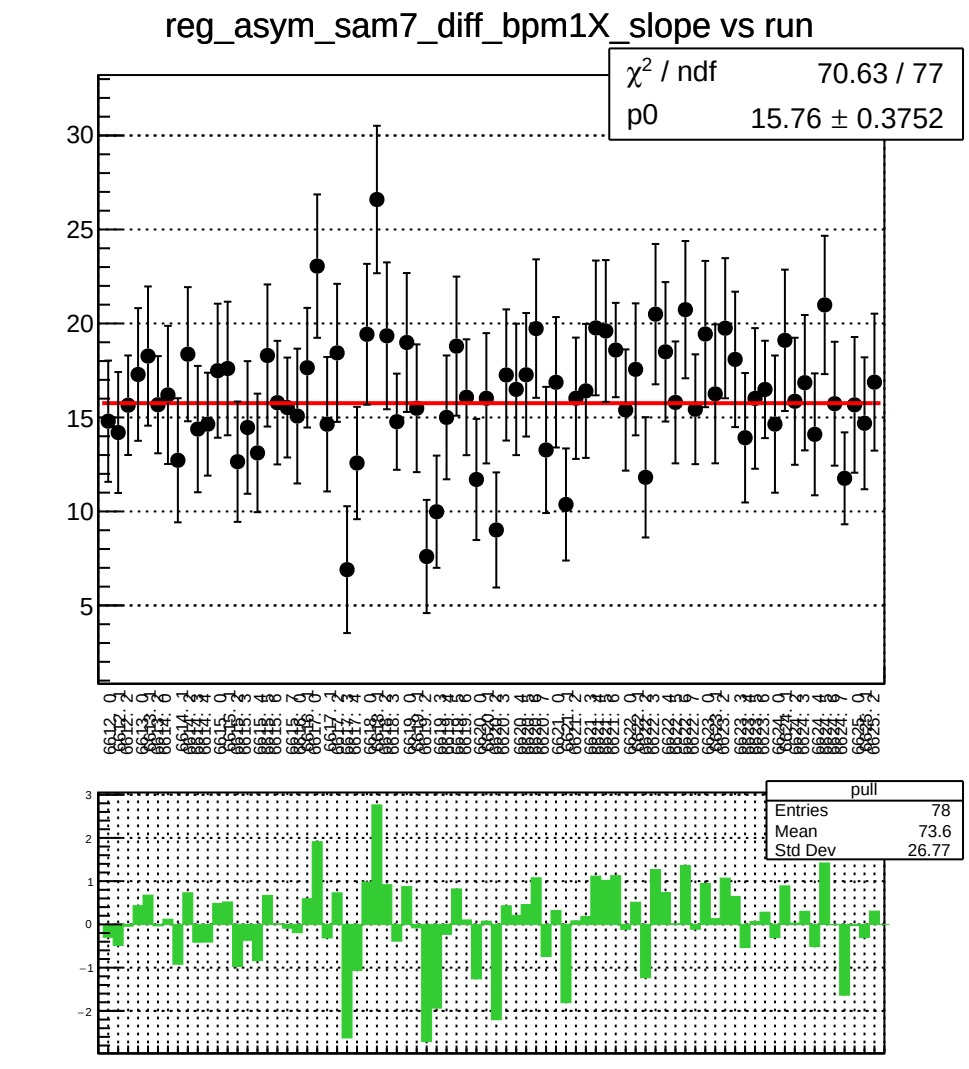

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 6.123 / 77
p0 42.54 ± 1.19
pull
Entries 78
Mean −48.72
Std Dev 104.5

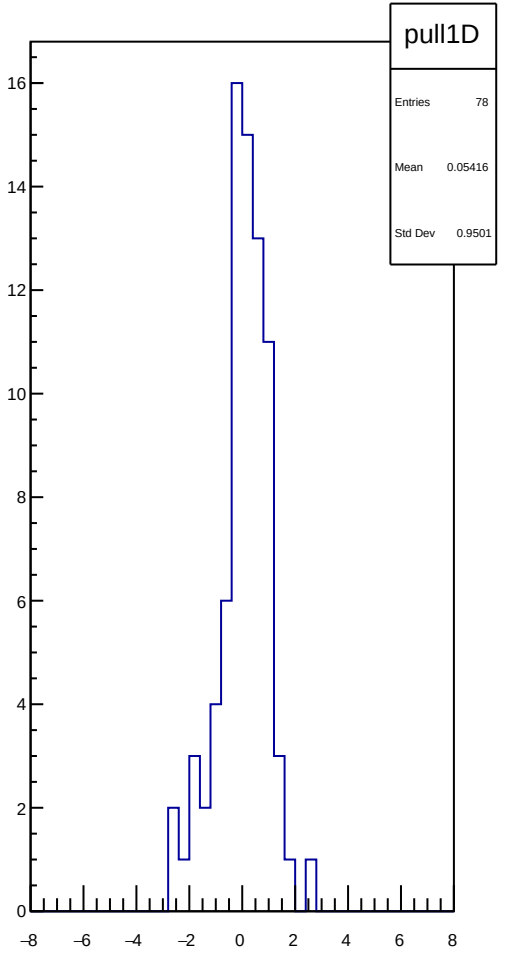

pull1D
Entries 78
Mean −0.006774
Std Dev 0.2801

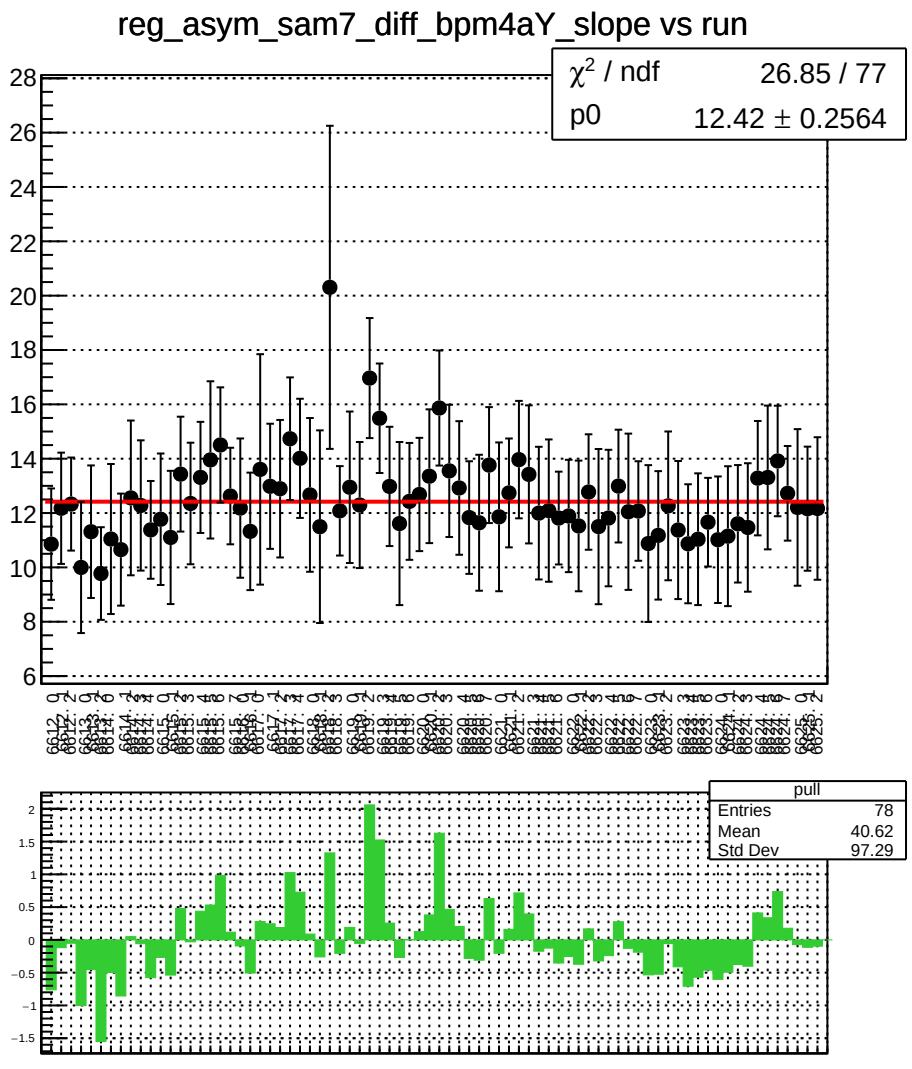

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 22.47 / 77
p0 70.03 ± 0.922
pull
Entries 78
Mean −169
Std Dev 217.7
pull1D
Entries 78
Mean −0.01172
Std Dev 0.5366

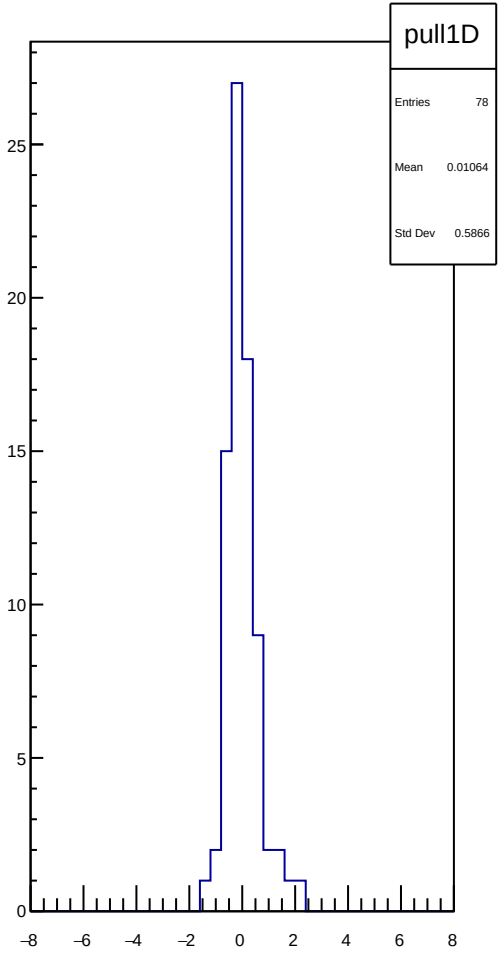

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 14.7 / 77
p0 −0.1601± 0.04781
pull
Entries 78
Mean −1018
Std Dev 1059

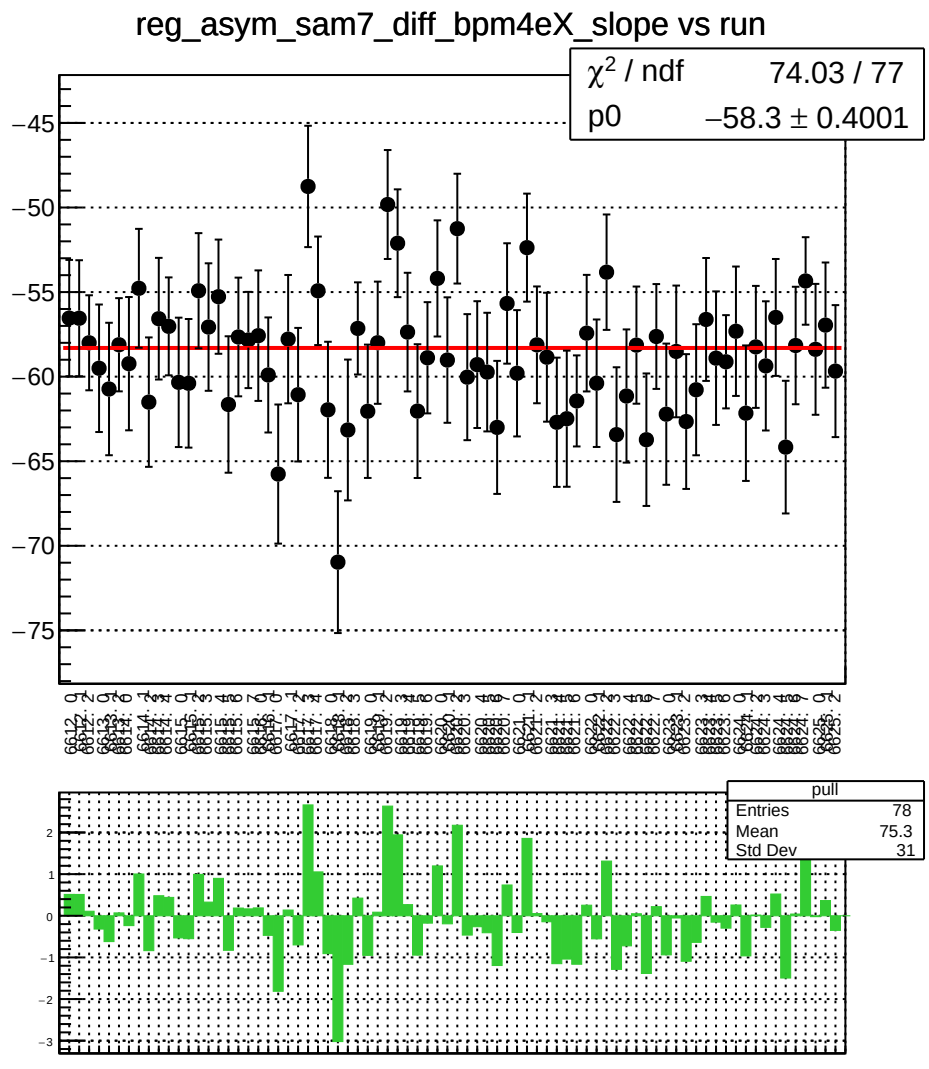

pull1D
Entries 78
Mean −0.005141
Std Dev 0.4341

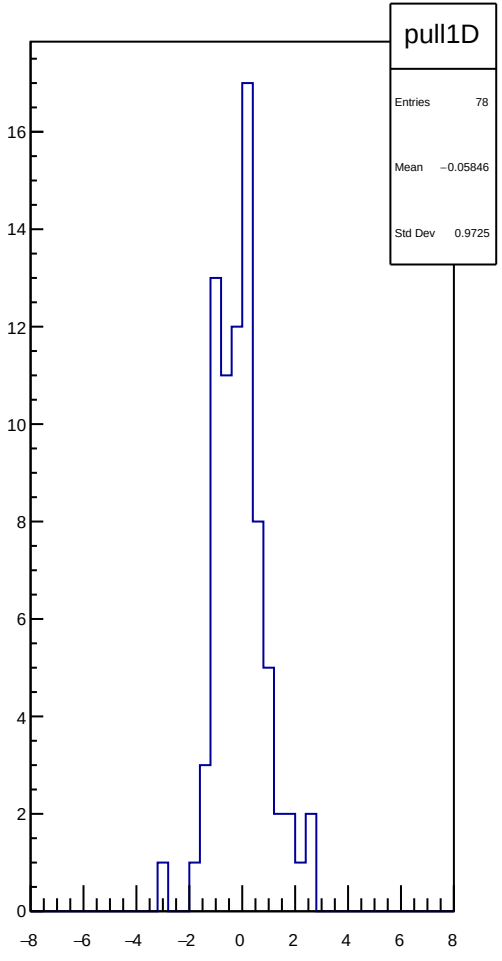

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 70.63 / 77
p0 15.76 ± 0.3752
pull
Entries 78
Mean 73.6
Std Dev 26.77

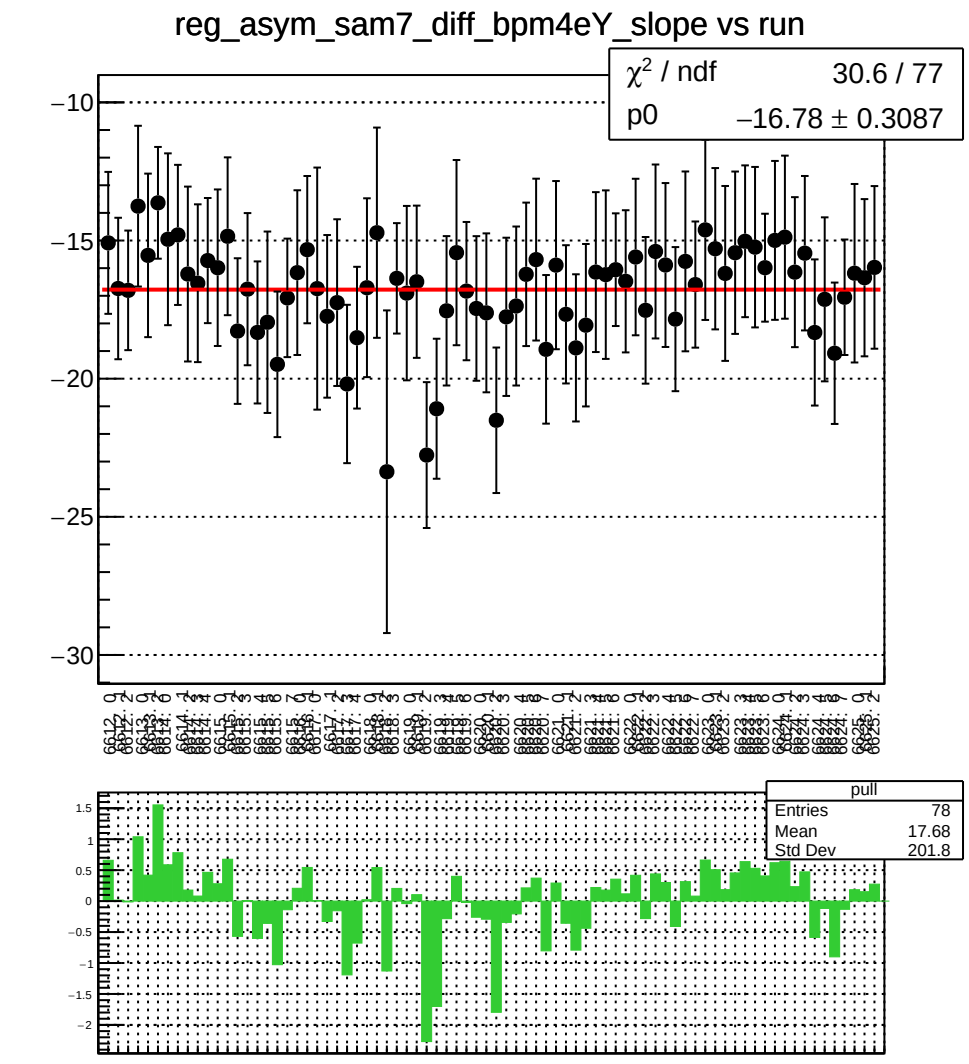

pull1D
Entries 78
Mean 0.05416
Std Dev 0.9501

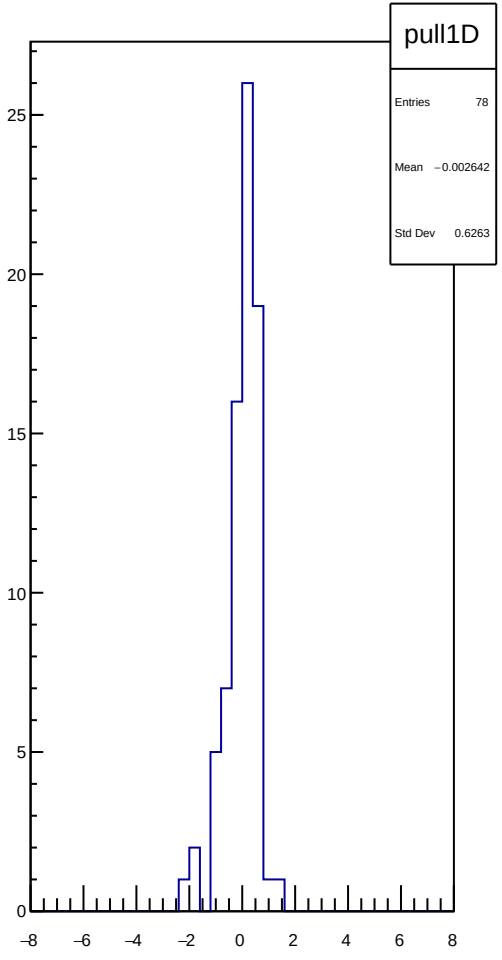

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 26.85 / 77
p0 12.42 ± 0.2564
pull
Entries 78
Mean 40.62
Std Dev 97.29

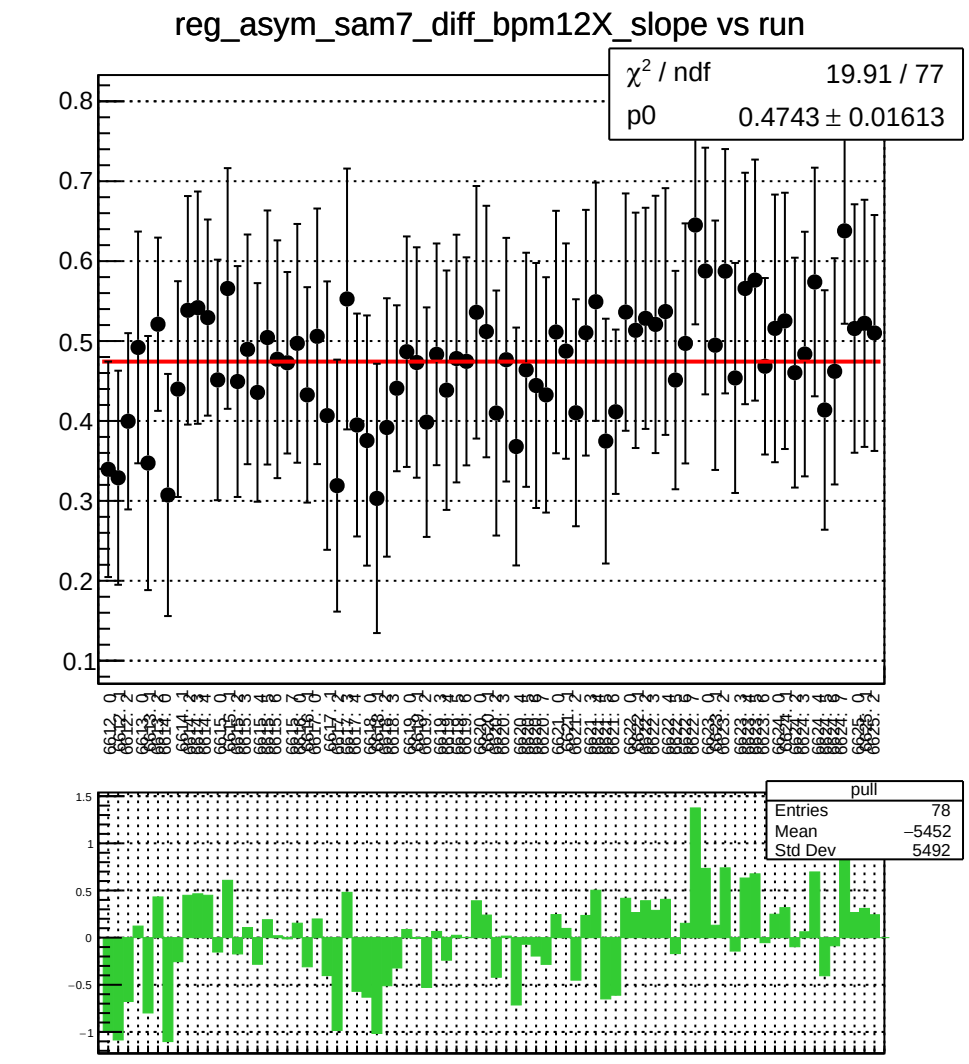

pull1D
Entries 78
Mean 0.01064
Std Dev 0.5866

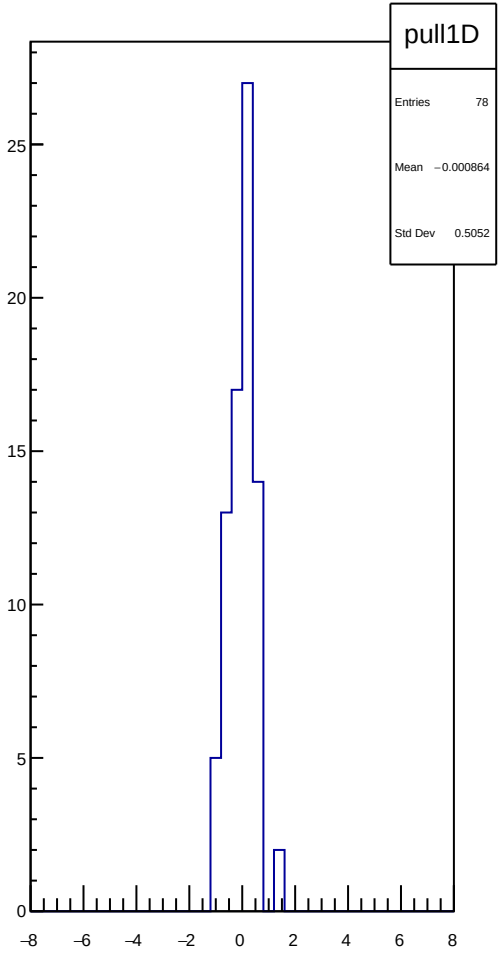

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 74.03 / 77
p0 −58.3 ± 0.4001
pull
Entries 78
Mean 75.3
Std Dev 31

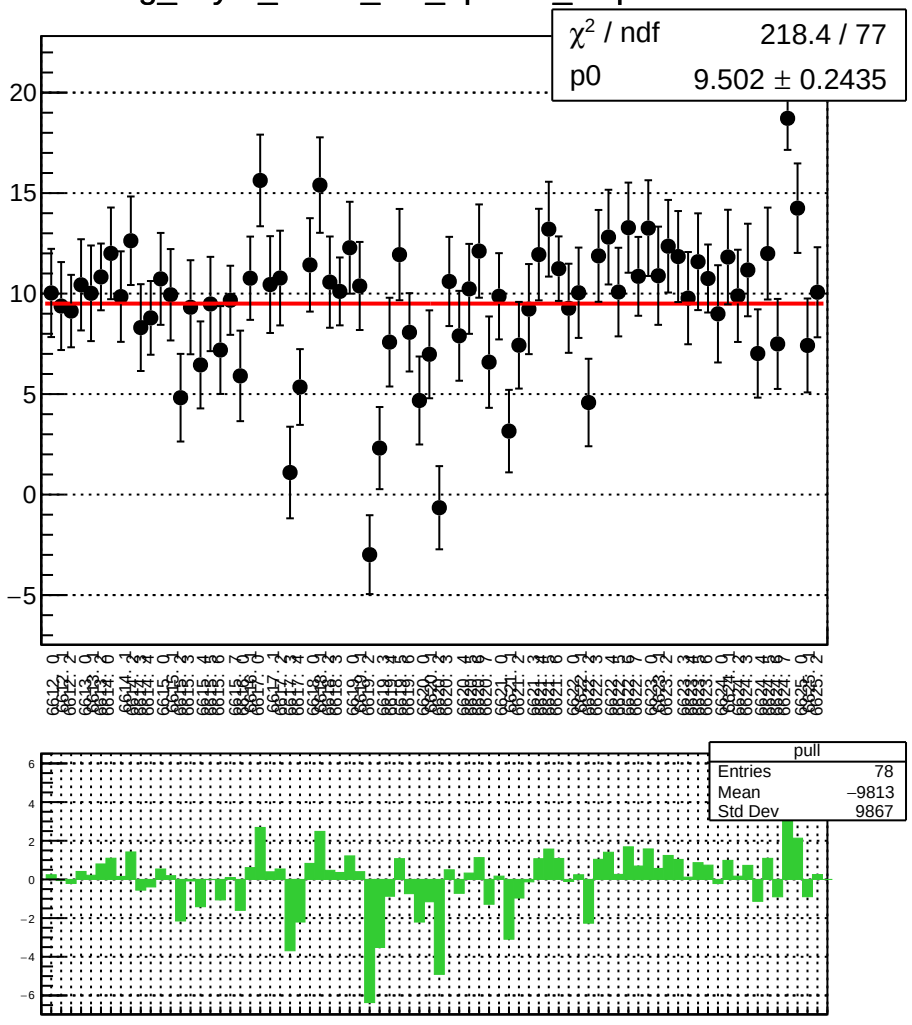

pull1D
Entries 78
Mean −0.05846
Std Dev 0.9725

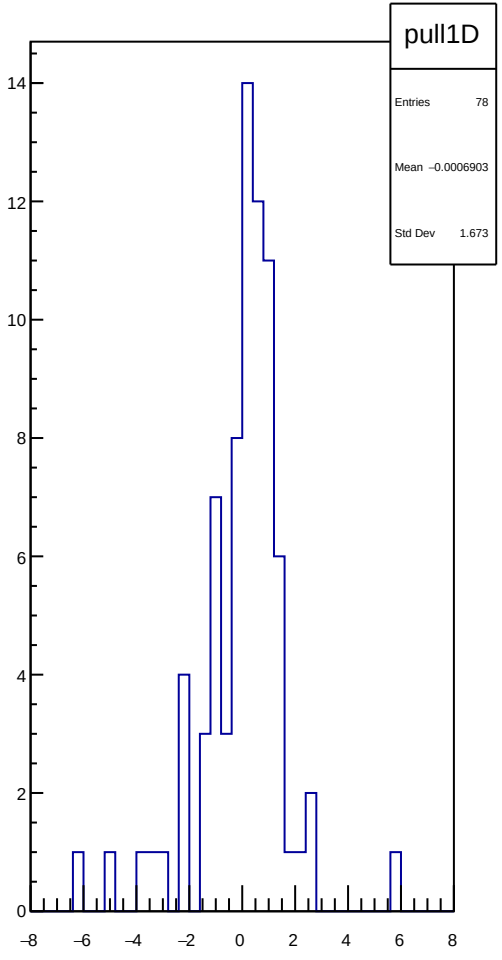

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 30.6 / 77
p0 −16.78 ± 0.3087
pull
Entries 78
Mean 17.68
Std Dev 201.8

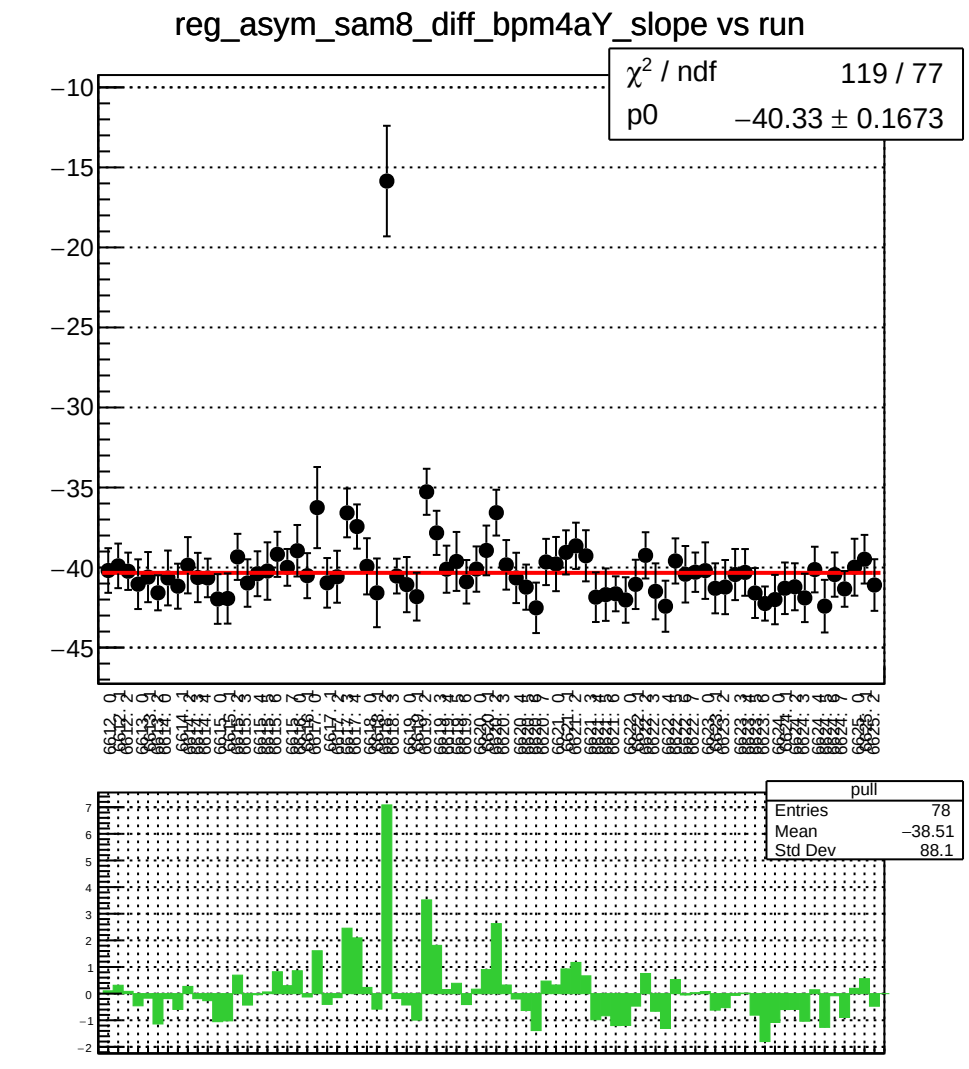

pull1D
Entries 78
Mean −0.002642
Std Dev 0.6263

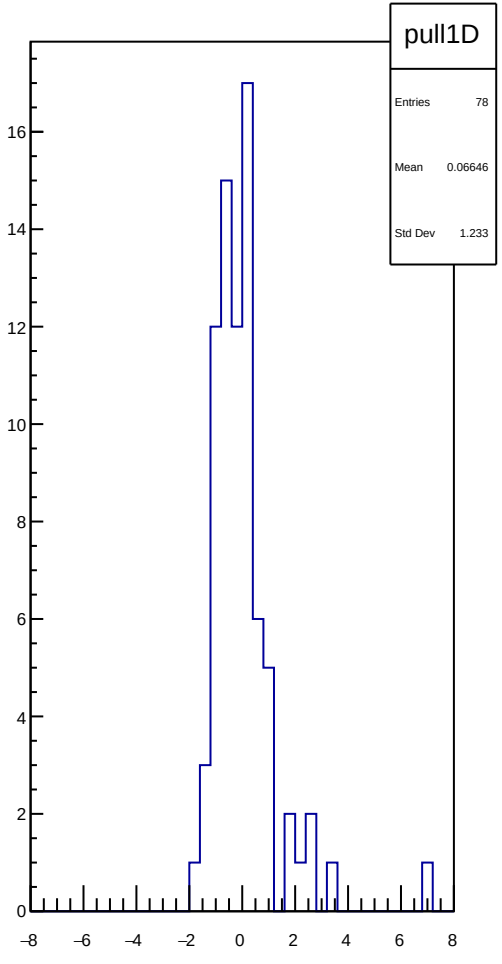

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 19.91 / 77
p0 0.4743 ± 0.01613
pull
Entries 78
Mean −5452
Std Dev 5492

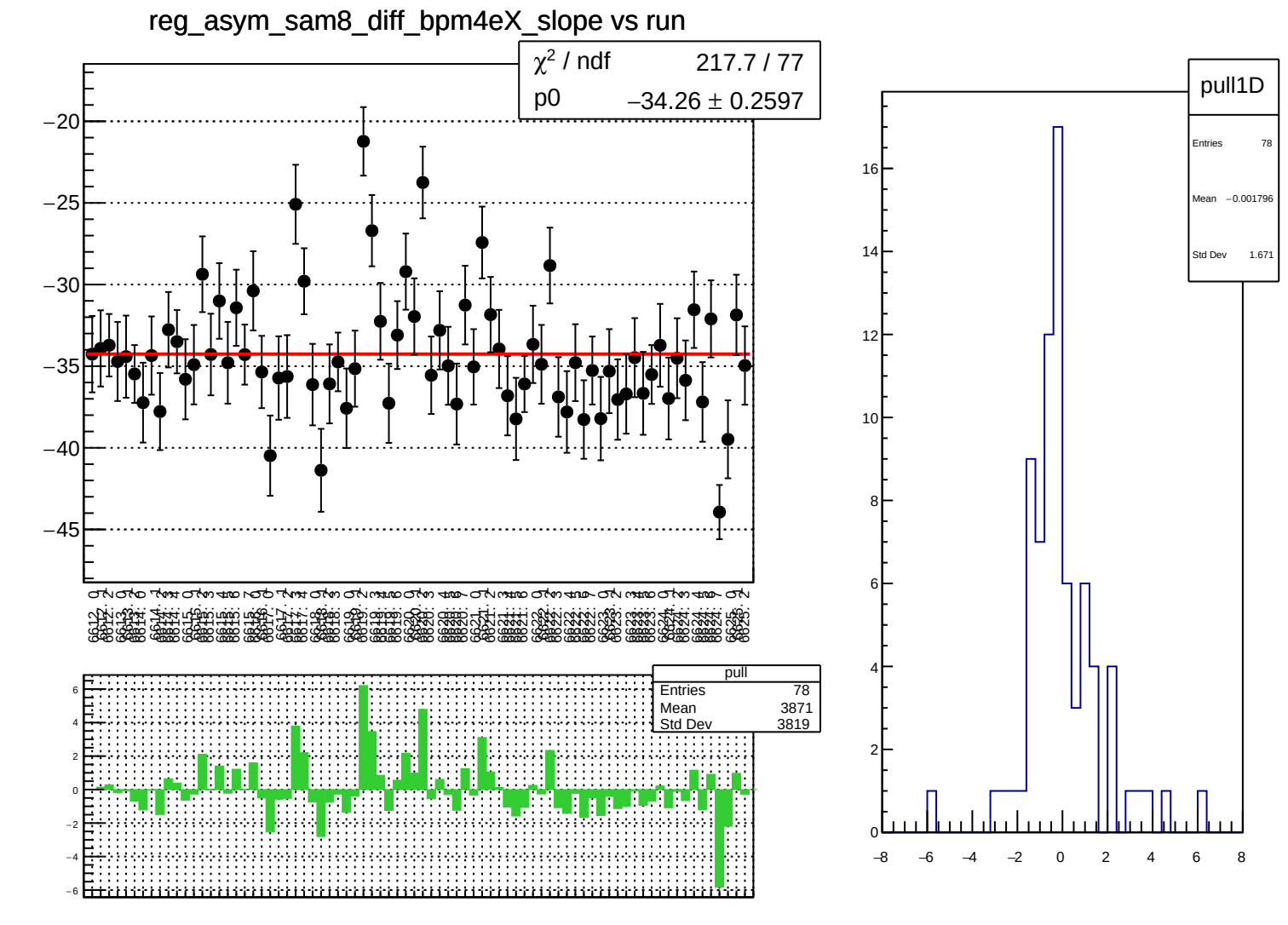

pull1D
Entries 78
Mean −0.000864
Std Dev 0.5052

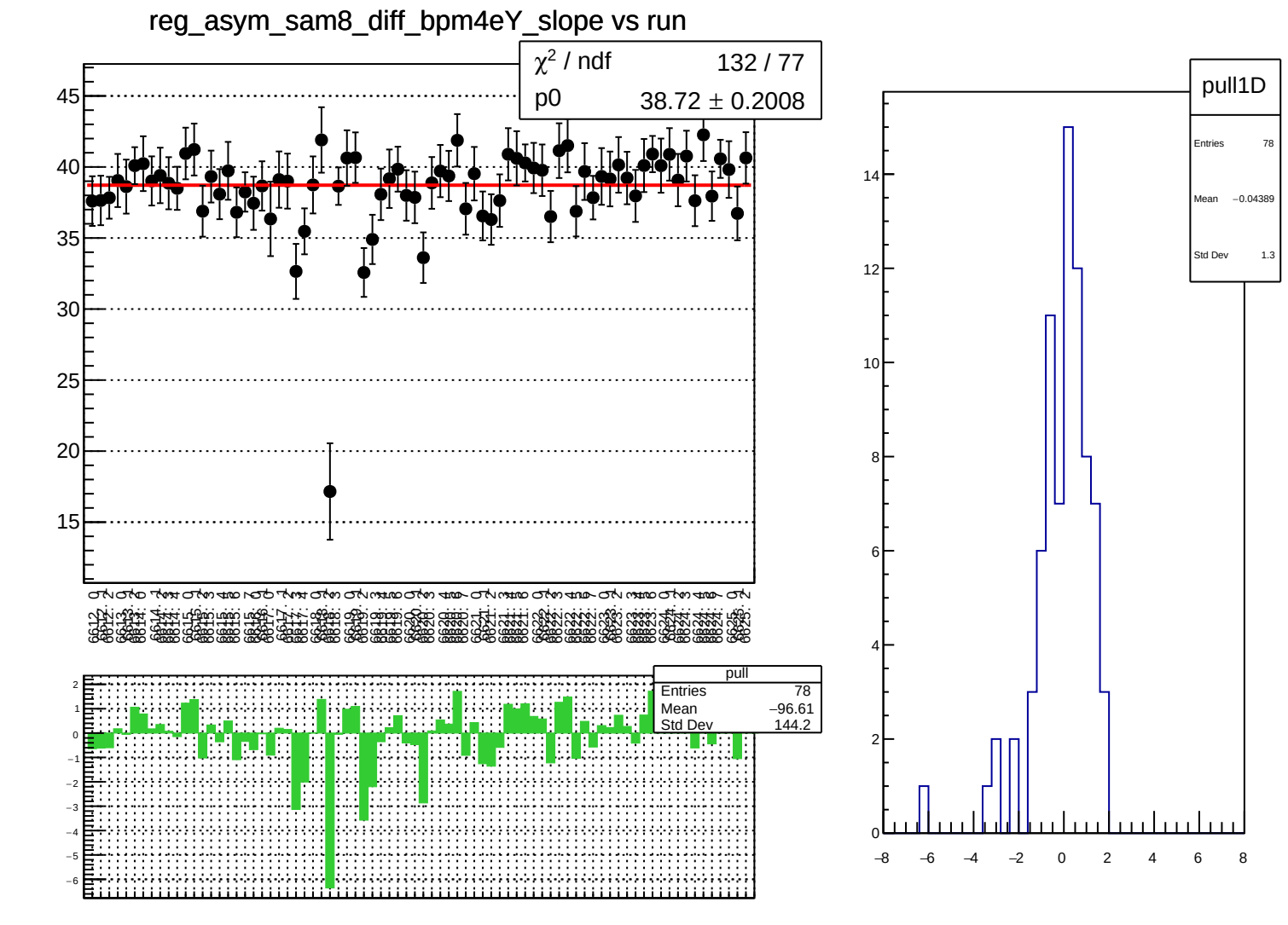

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 218.4 / 77
p0 9.502 ± 0.2435
pull
Entries 78
Mean −9813
Std Dev 9867

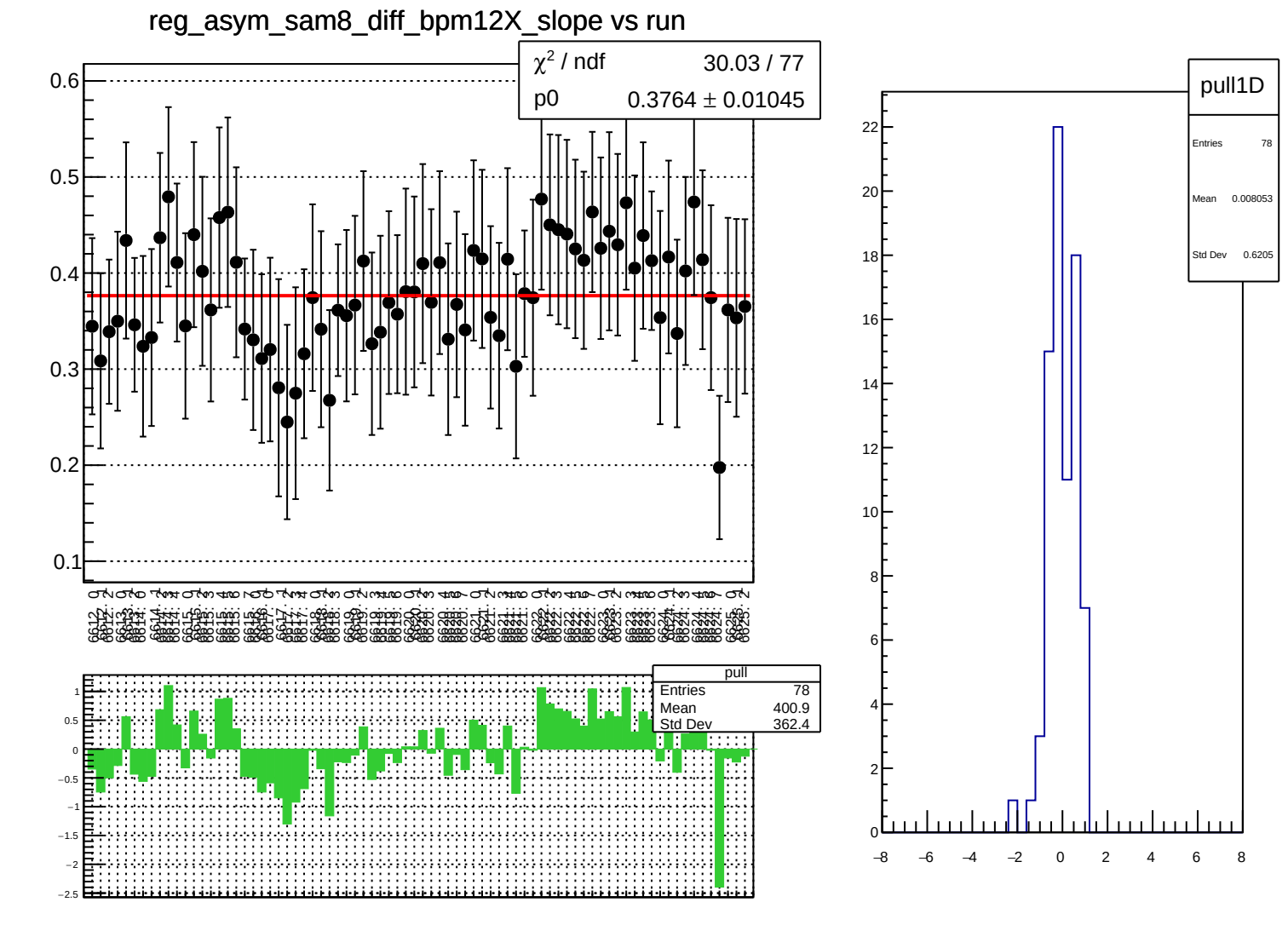

pull1D
Entries 78
Mean −0.0006903
Std Dev 1.673

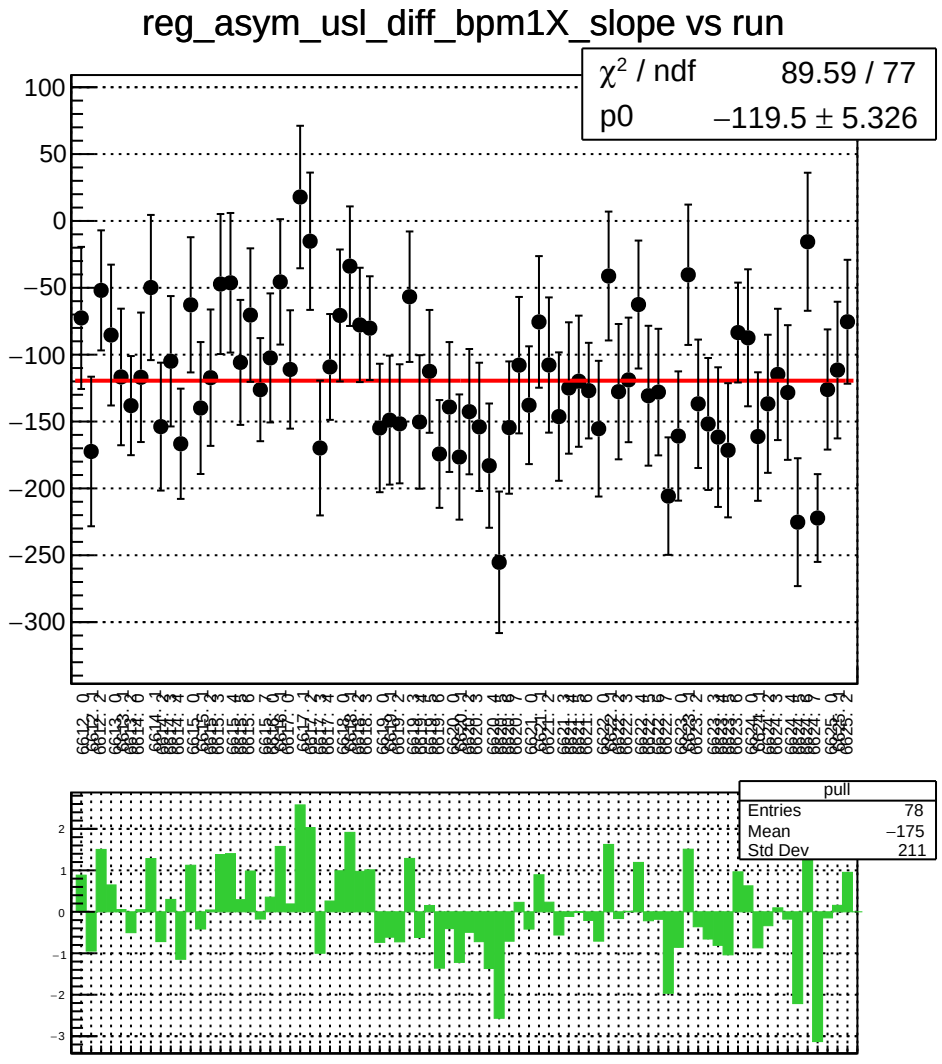

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 119 / 77
p0 −40.33 ± 0.1673
pull
Entries 78
Mean −38.51
Std Dev 88.1

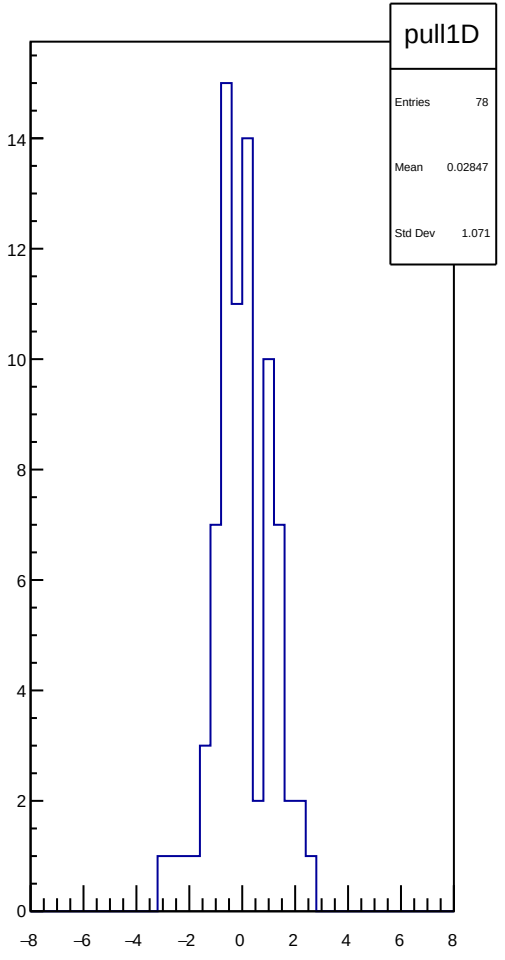

pull1D
Entries 78
Mean 0.06646
Std Dev 1.233

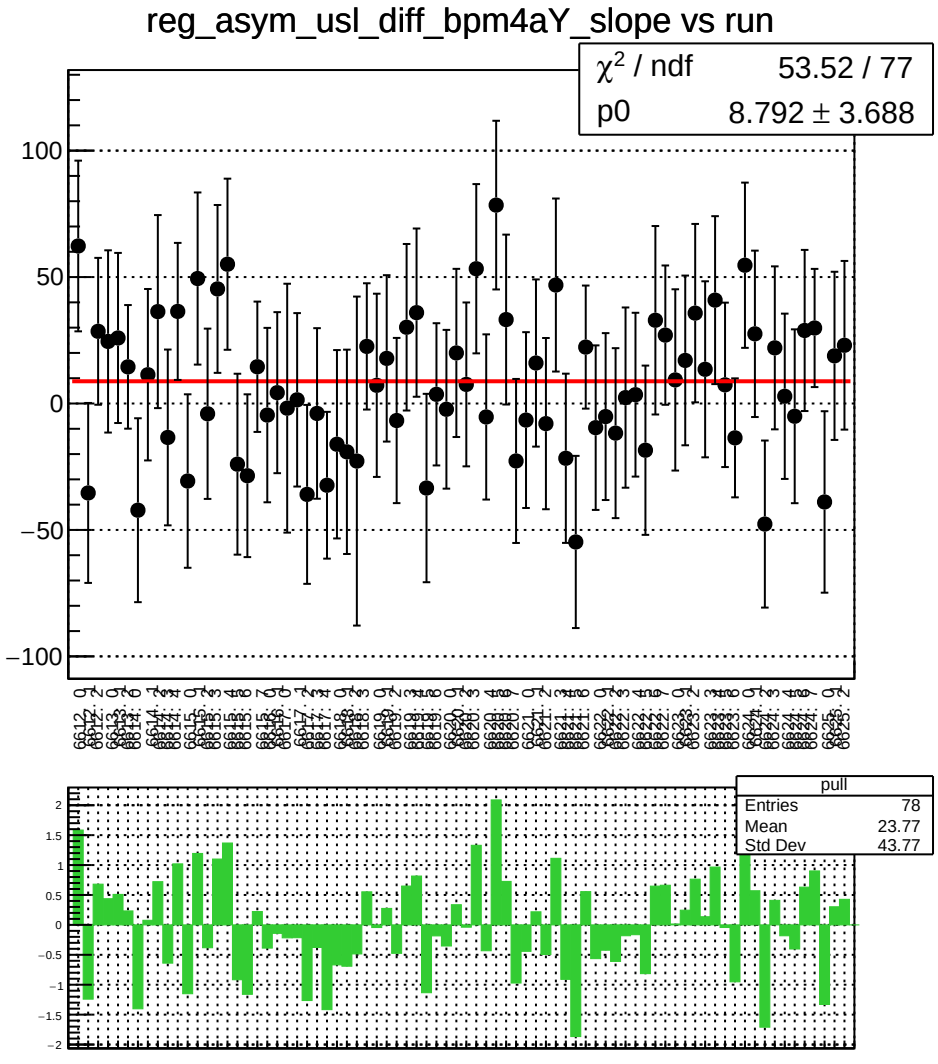

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 217.7 / 77
p0 −34.26 ± 0.2597
pull
Entries 78
Mean 3871
Std Dev 3819
pull1D
Entries 78
Mean −0.001796
Std Dev 1.671

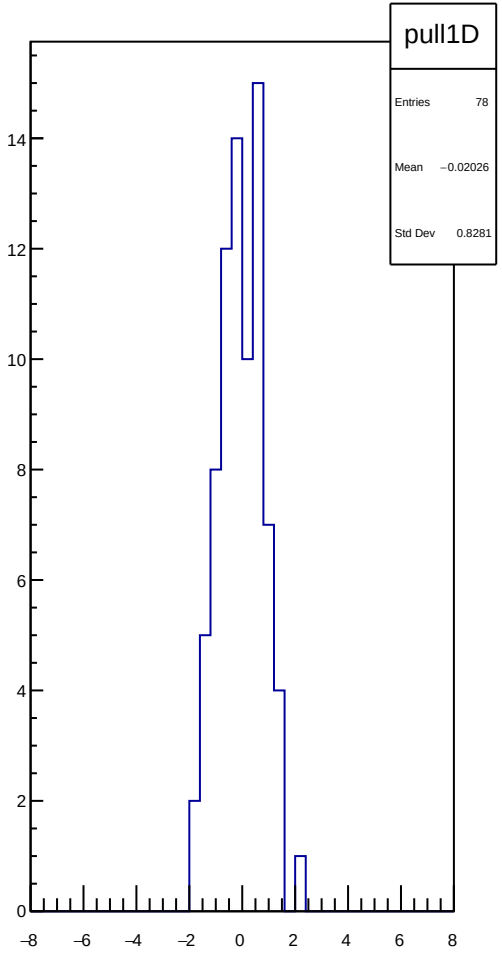

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 132 / 77
p0 38.72 ± 0.2008
pull
Entries 78
Mean −96.61
Std Dev 144.2
pull1D
Entries 78
Mean −0.04389
Std Dev 1.3

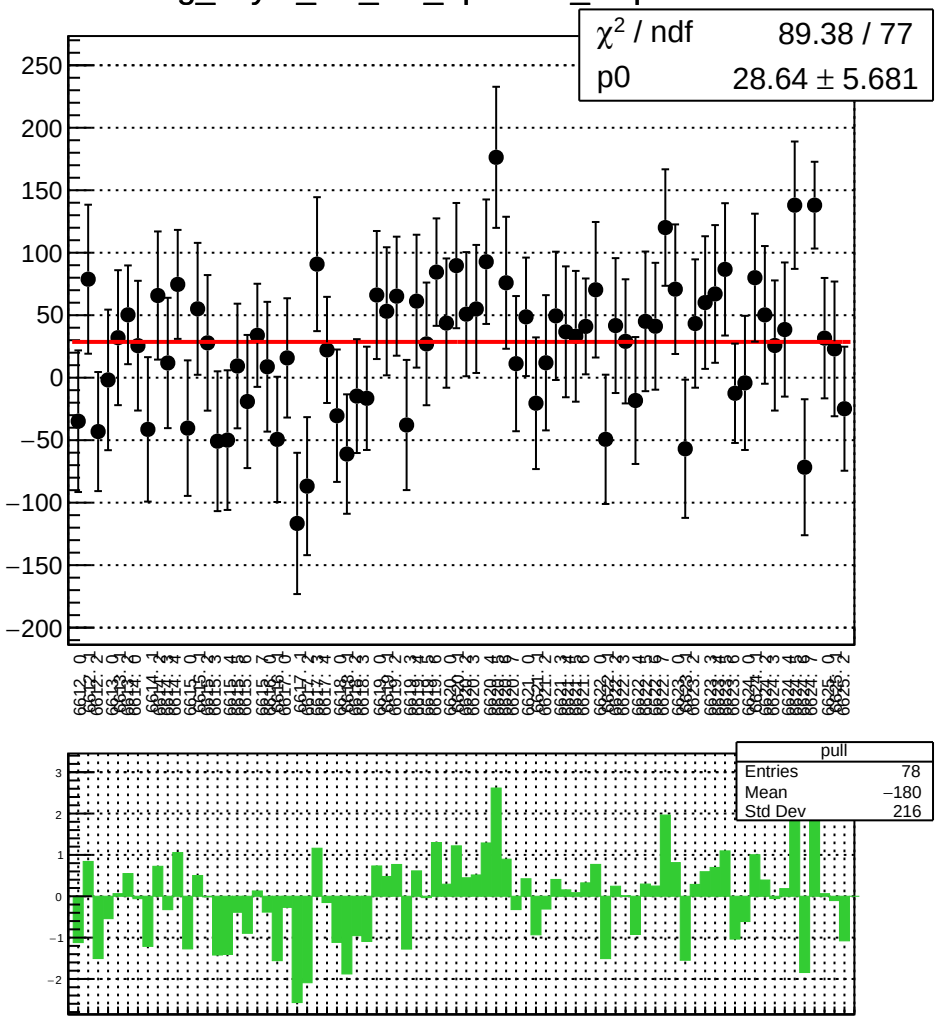

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 30.03 / 77
p0 0.3764 ± 0.01045
pull
Entries 78
Mean 400.9
Std Dev 362.4
pull1D
Entries 78
Mean 0.008053
Std Dev 0.6205

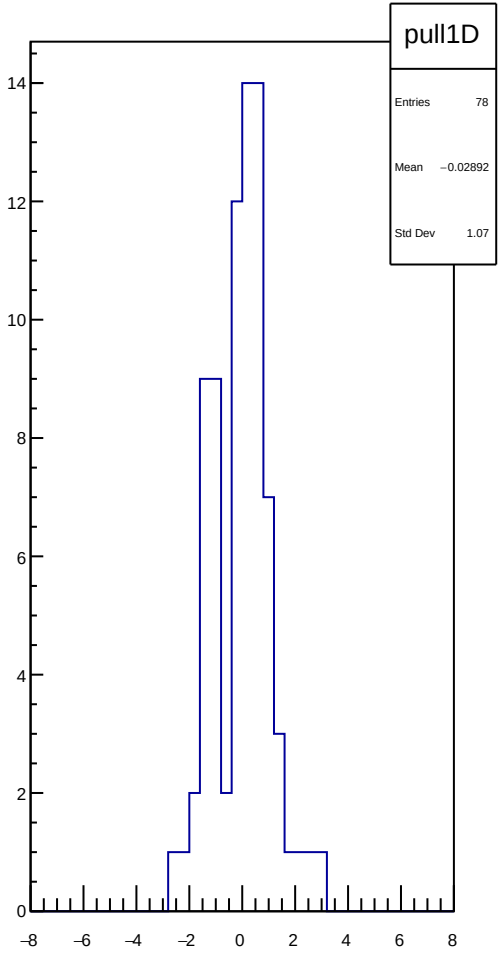

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 89.59 / 77
p0 −119.5 ± 5.326
pull
Entries 78
Mean −175
Std Dev 211

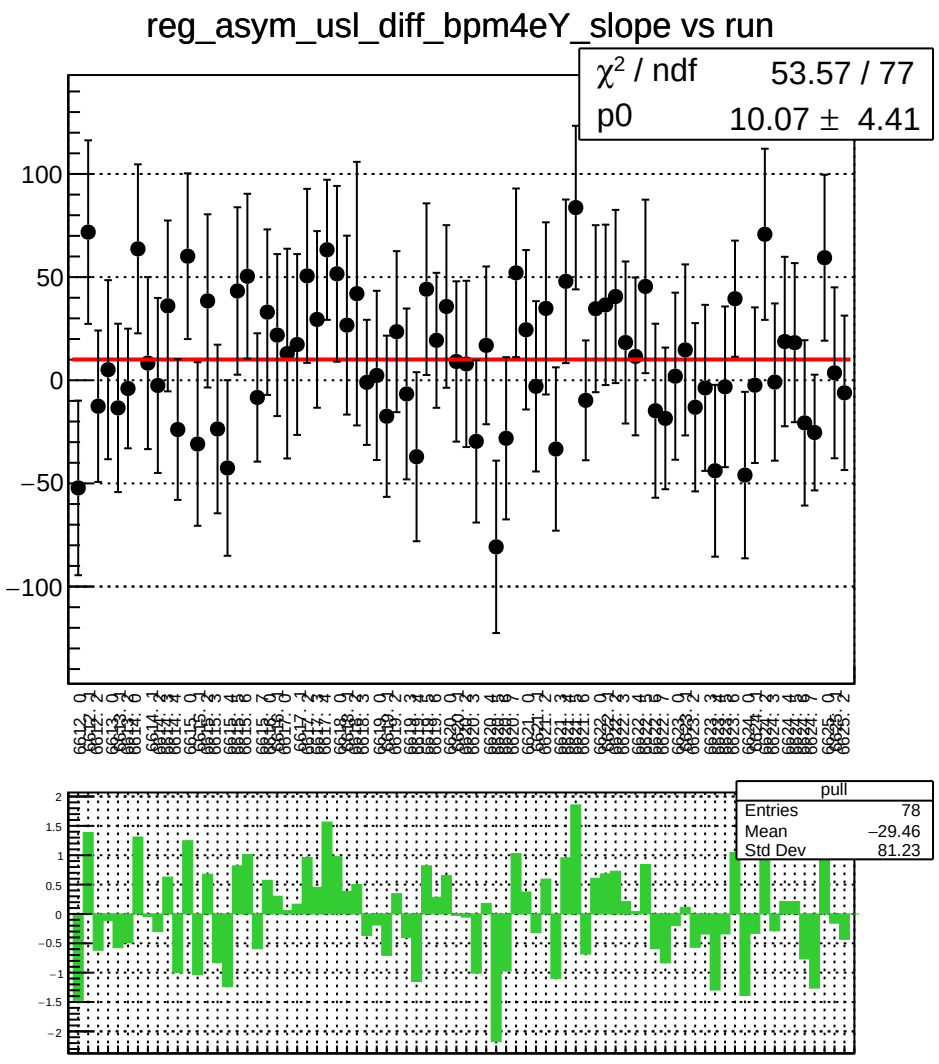

pull1D
Entries 78
Mean 0.02847
Std Dev 1.071

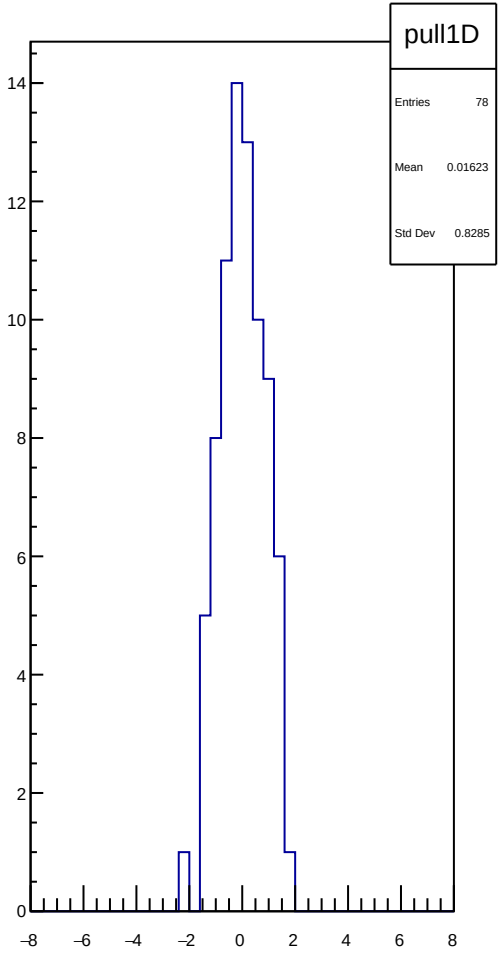

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 53.52 / 77
p0 8.792 ± 3.688
pull
Entries 78
Mean 23.77
Std Dev 43.77

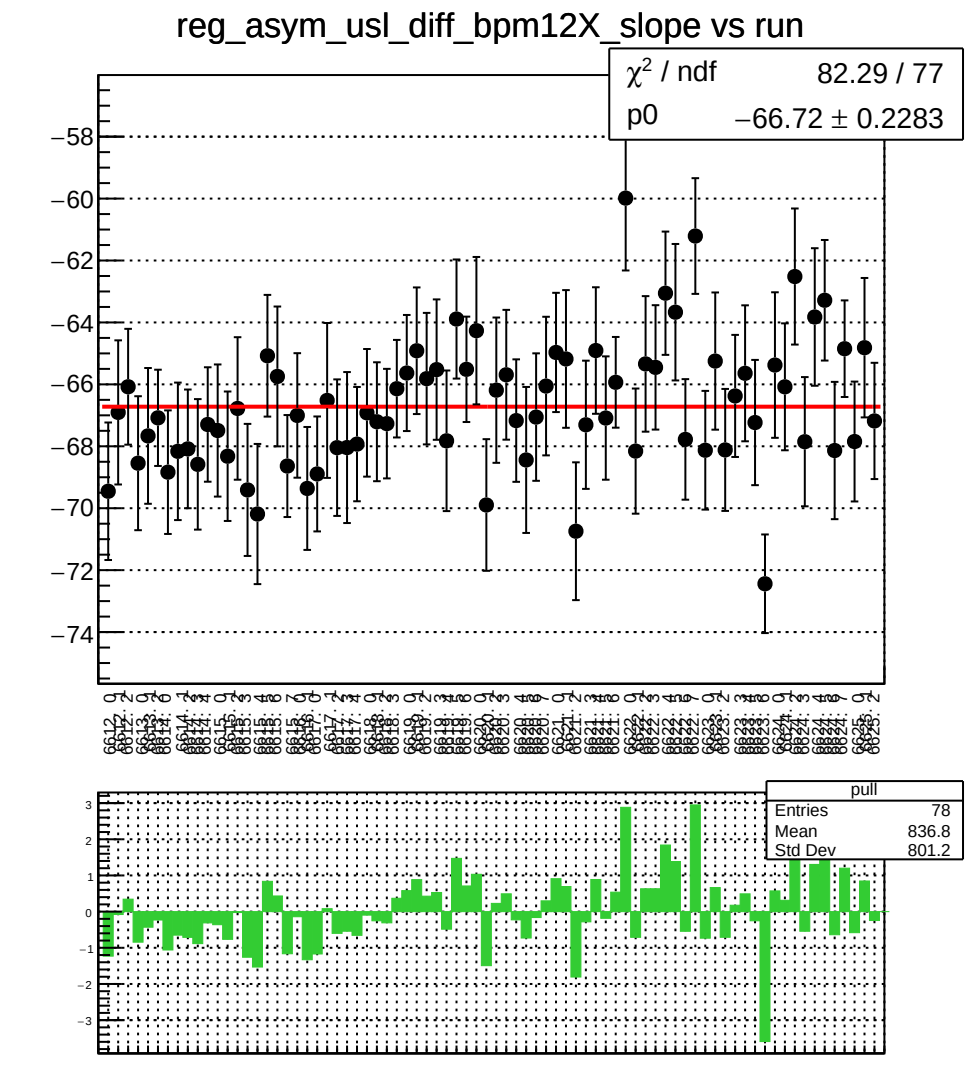

pull1D
Entries 78
Mean −0.02026
Std Dev 0.8281

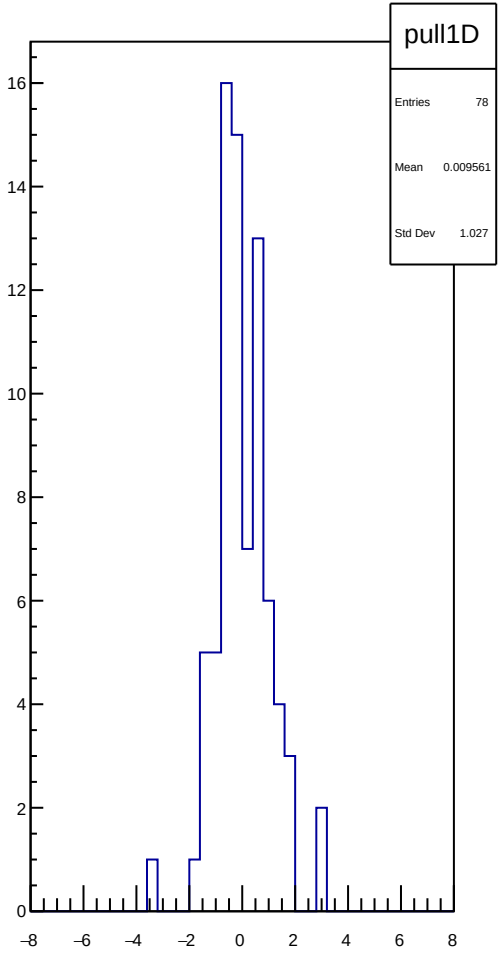

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 89.38 / 77
p0 28.64 ± 5.681
pull
Entries 78
Mean −180
Std Dev 216

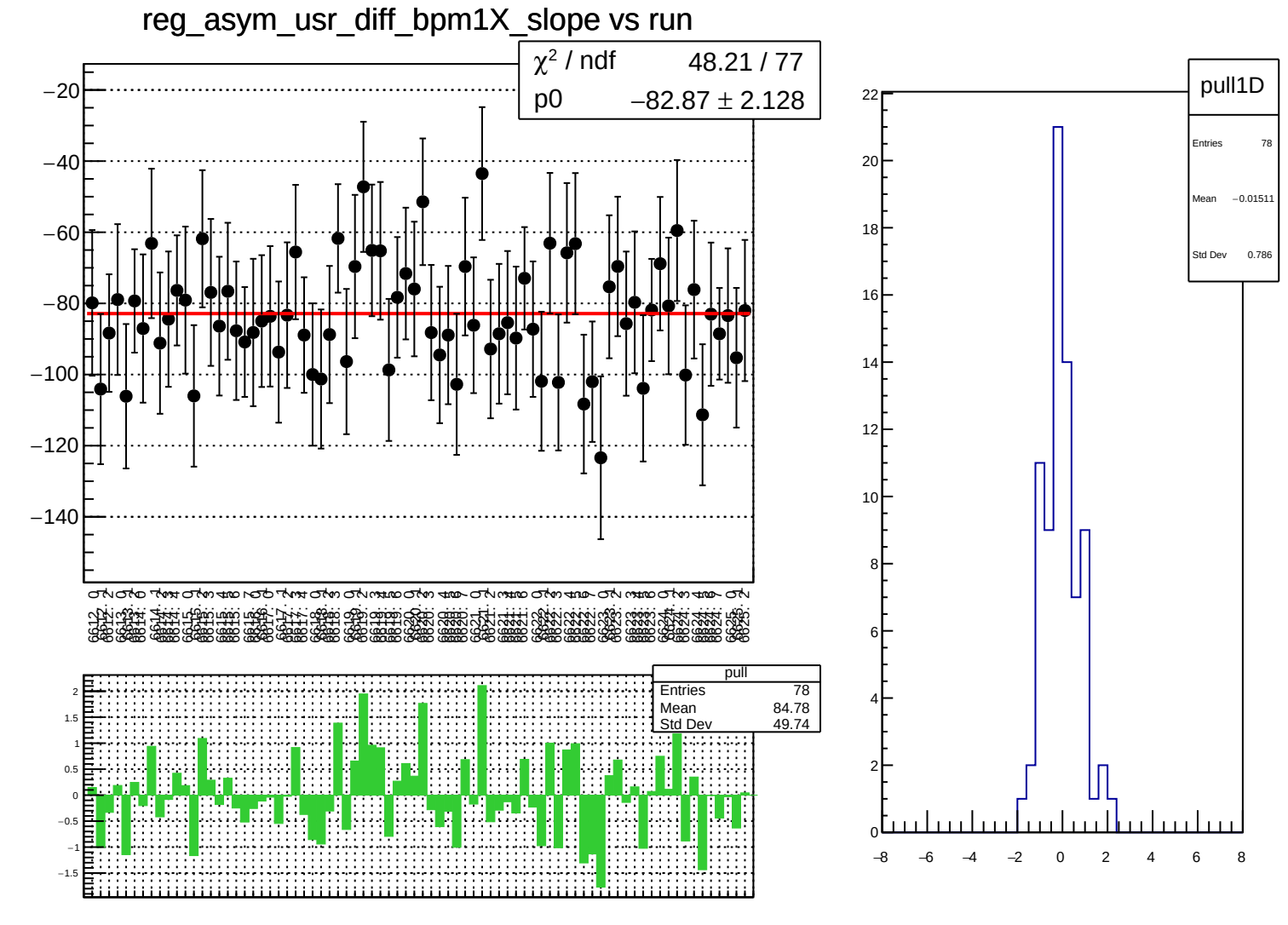

pull1D
Entries 78
Mean −0.02892
Std Dev 1.07

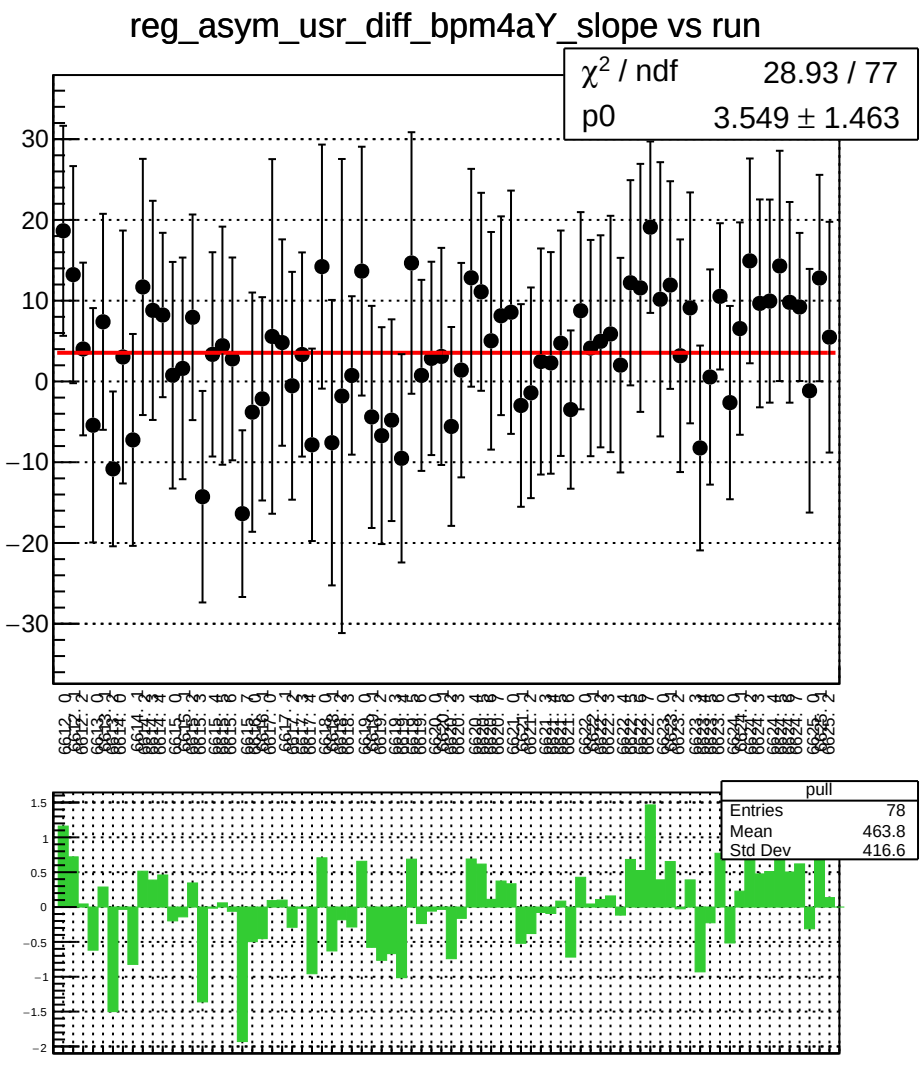

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 53.57 / 77
p0 10.07 ± 4.41
100
50
0
−50
−100
pull
Entries 78
Mean −29.46
Std Dev 81.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

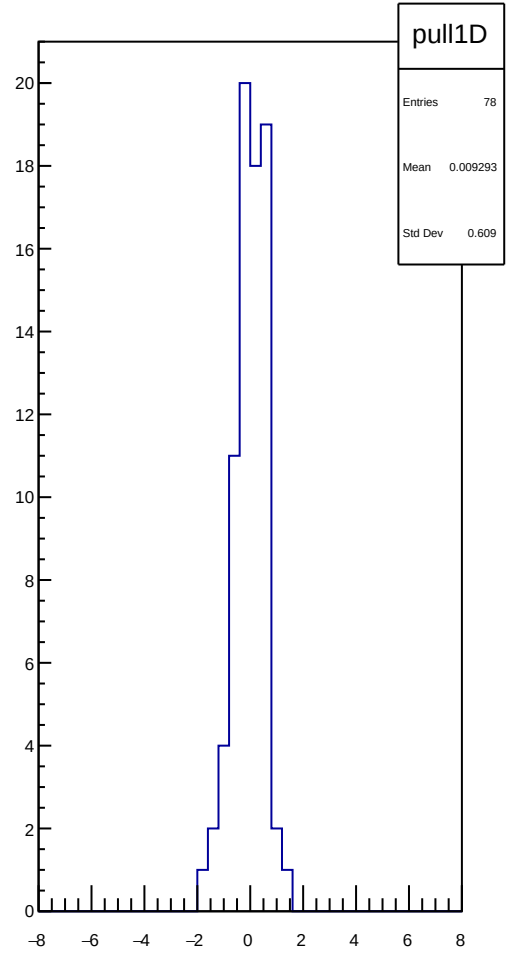

pull1D
Entries 78
Mean 0.01623
Std Dev 0.8285
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

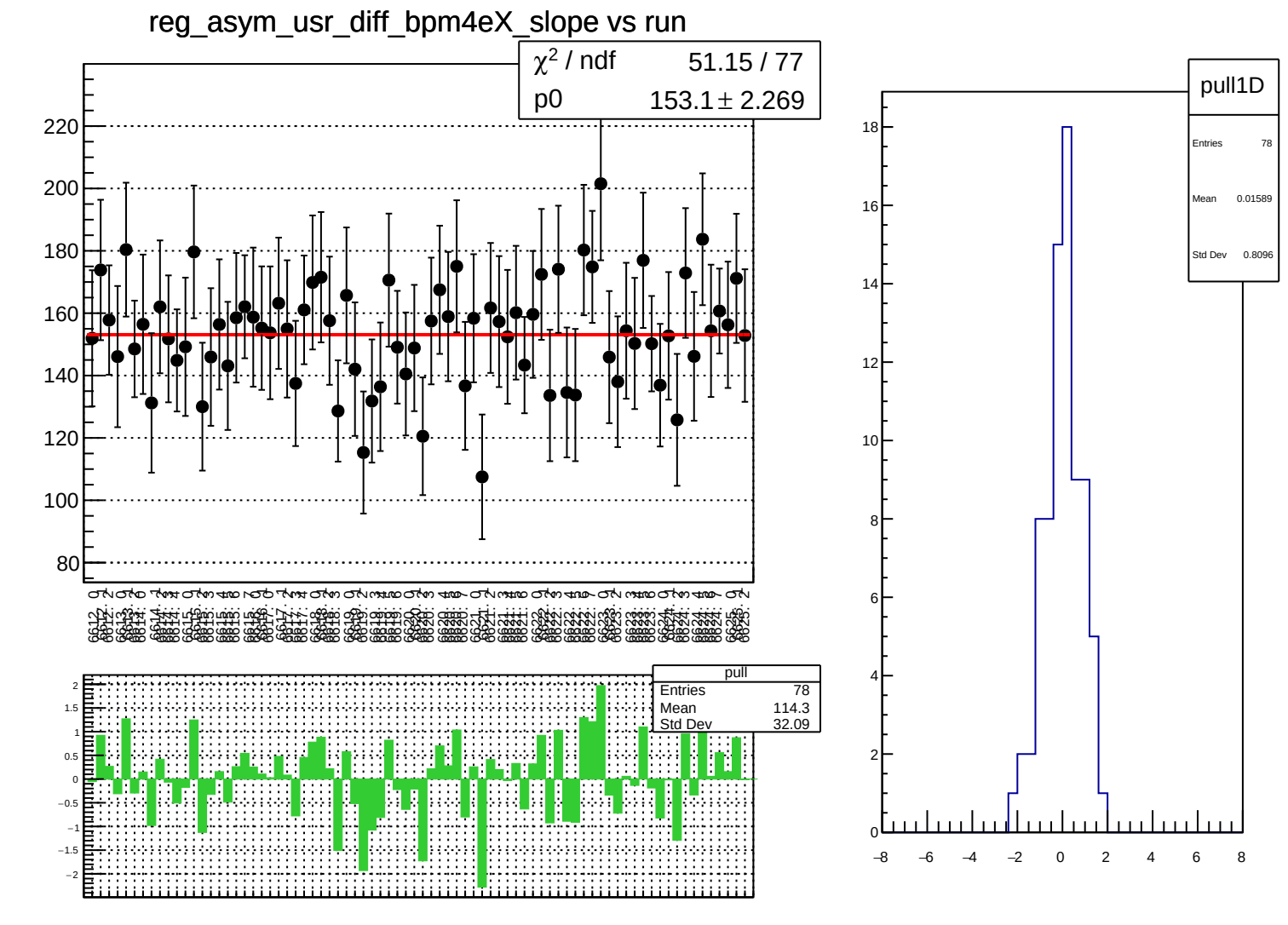

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 82.29 / 77
p0 −66.72 ± 0.2283
pull
Entries 78
Mean 836.8
Std Dev 801.2

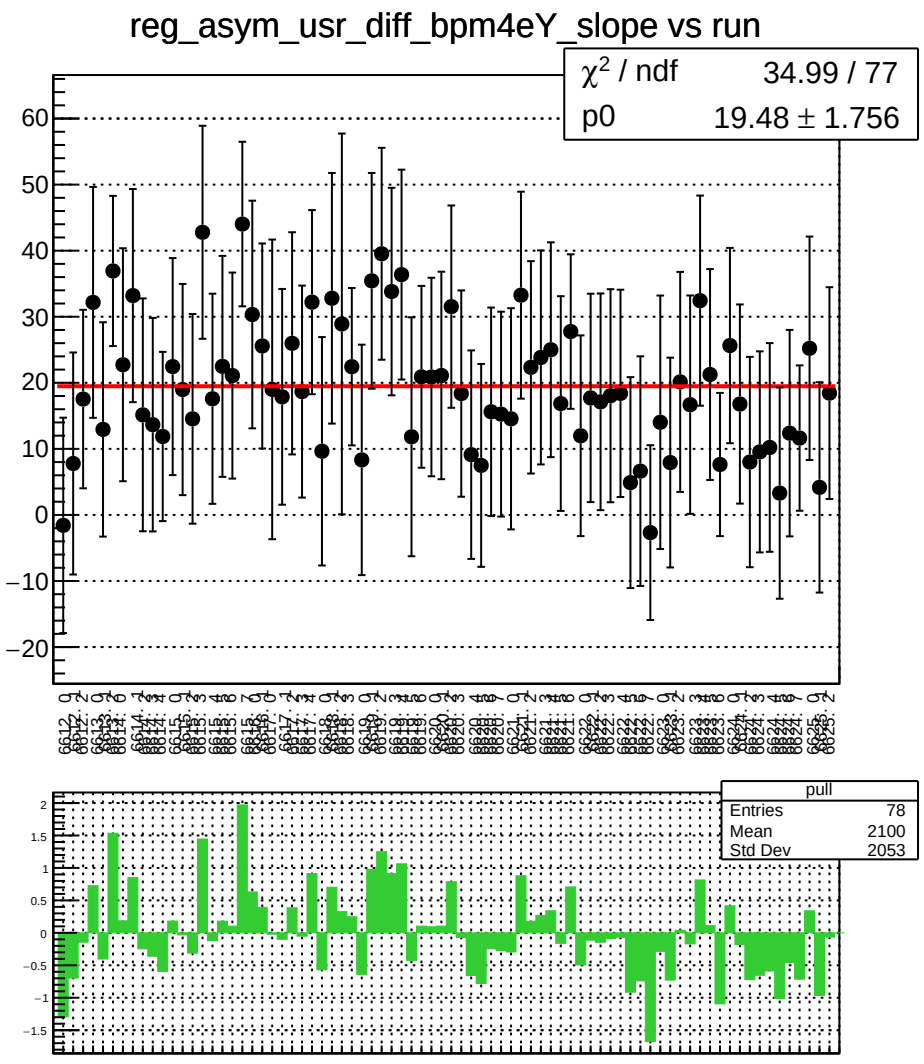

pull1D
Entries 78
Mean 0.009561
Std Dev 1.027

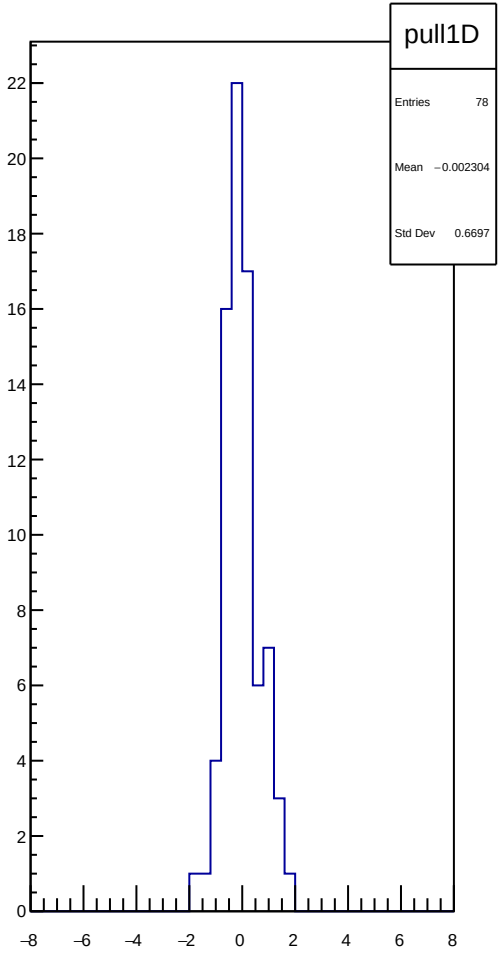

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 48.21 / 77
p0 −82.87 ± 2.128
pull
Entries 78
Mean 84.78
Std Dev 49.74
pull1D
Entries 78
Mean −0.01511
Std Dev 0.786

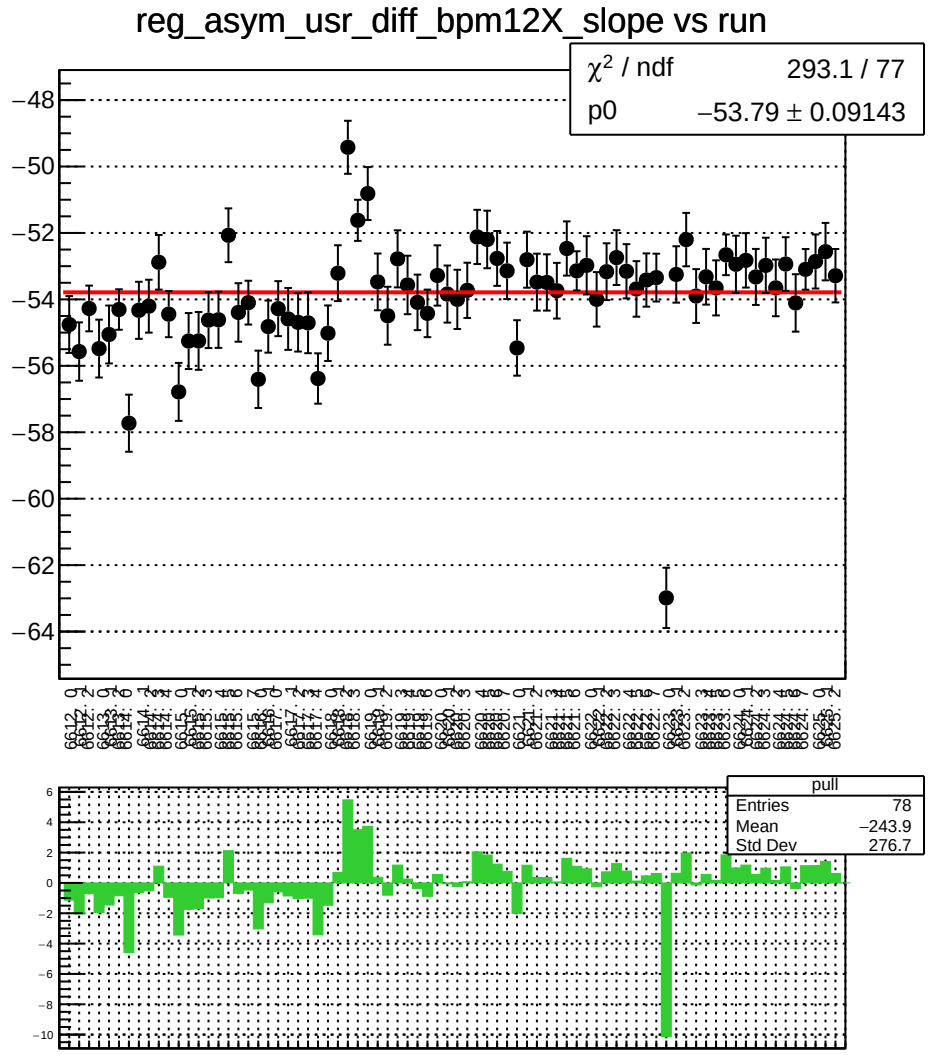

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 28.93 / 77
p0 3.549 ± 1.463
pull
Entries 78
Mean 463.8
Std Dev 416.6

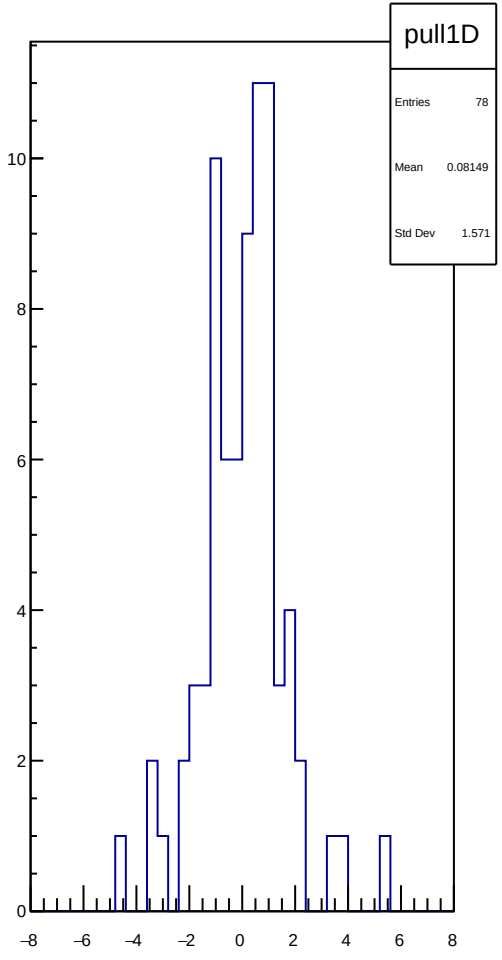

pull1D
Entries 78
Mean 0.009293
Std Dev 0.609

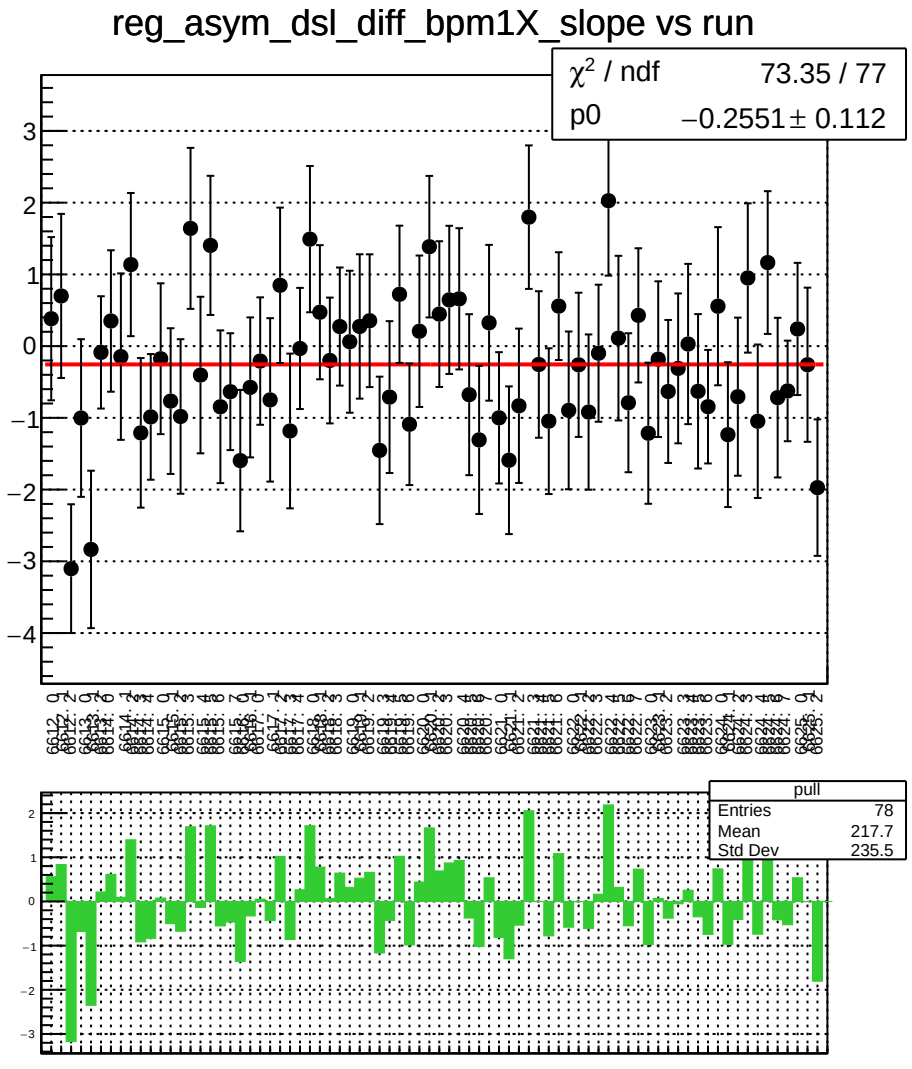

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 51.15 / 77
p0 153.1 ± 2.269
pull
Entries 78
Mean 114.3
Std Dev 32.09
pull1D
Entries 78
Mean 0.01589
Std Dev 0.8096

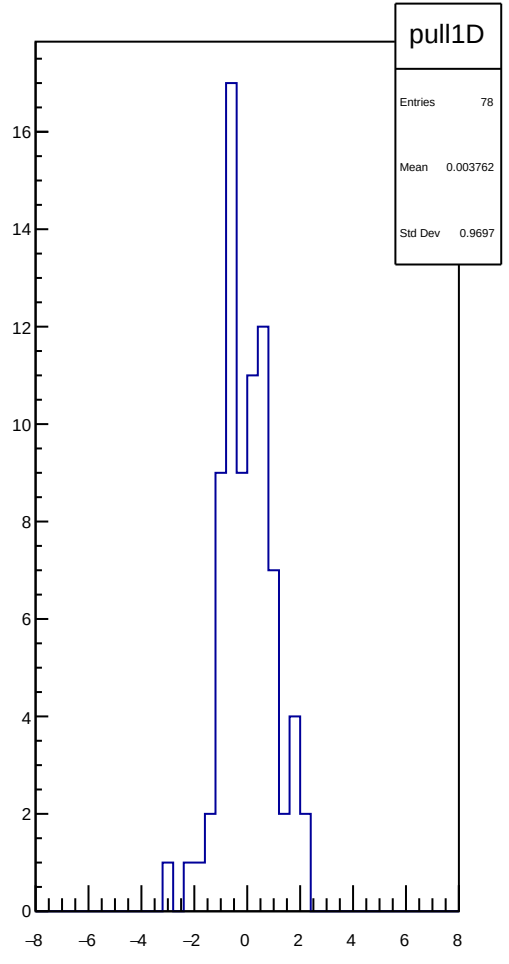

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 34.99 / 77
p0 19.48 ± 1.756
pull
Entries 78
Mean 2100
Std Dev 2053

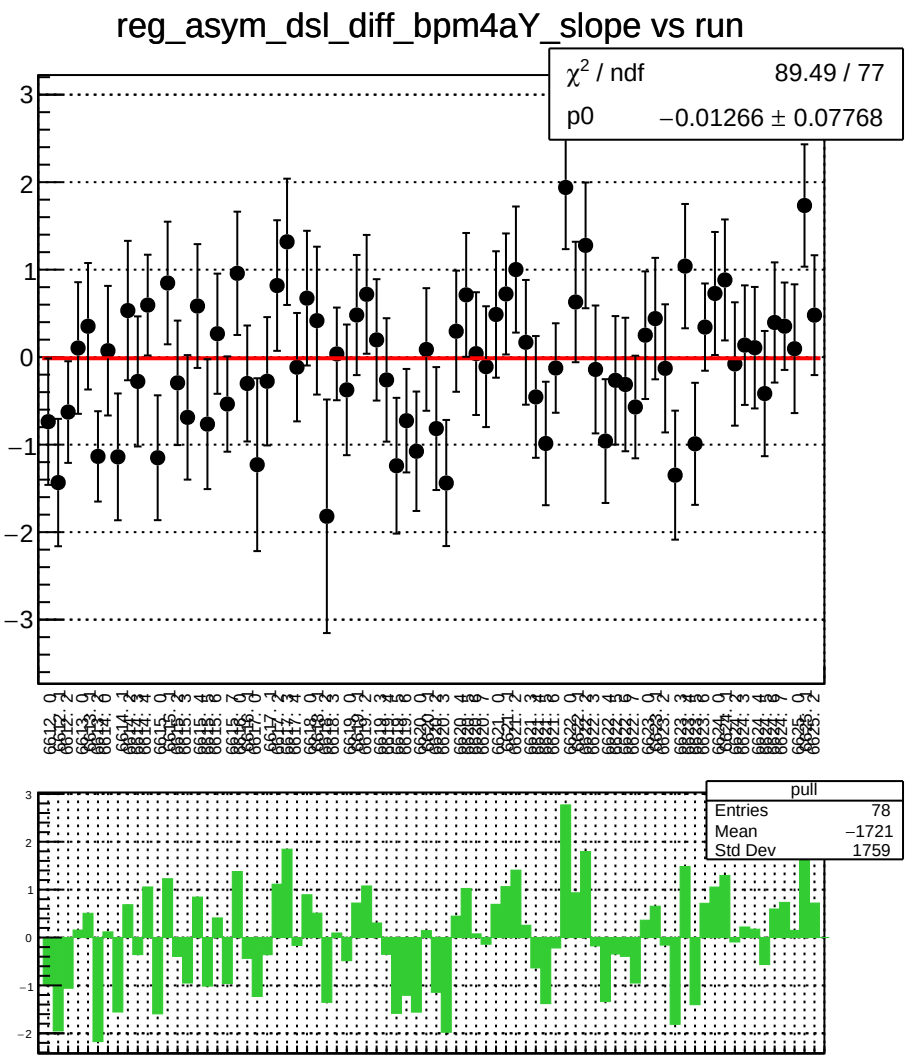

pull1D
Entries 78
Mean −0.002304
Std Dev 0.6697

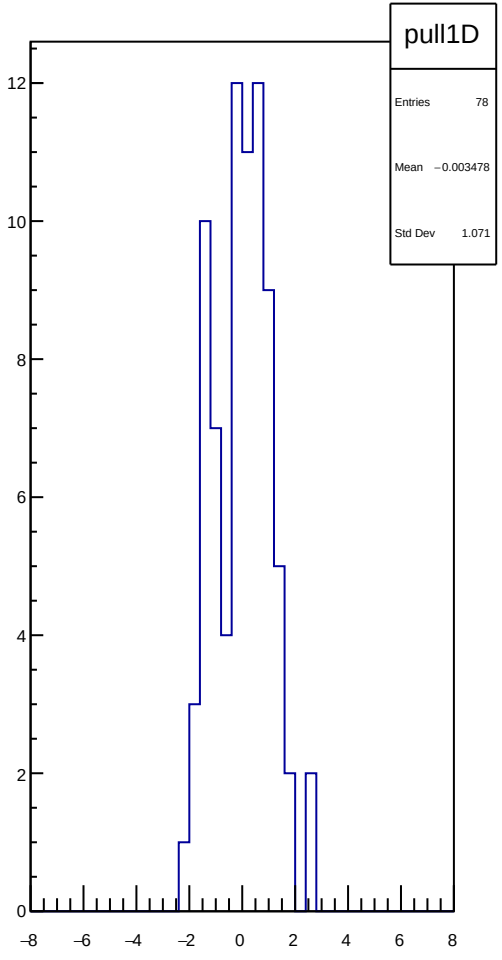

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 293.1 / 77
p0 −53.79 ± 0.09143
pull
Entries 78
Mean −243.9
Std Dev 276.7

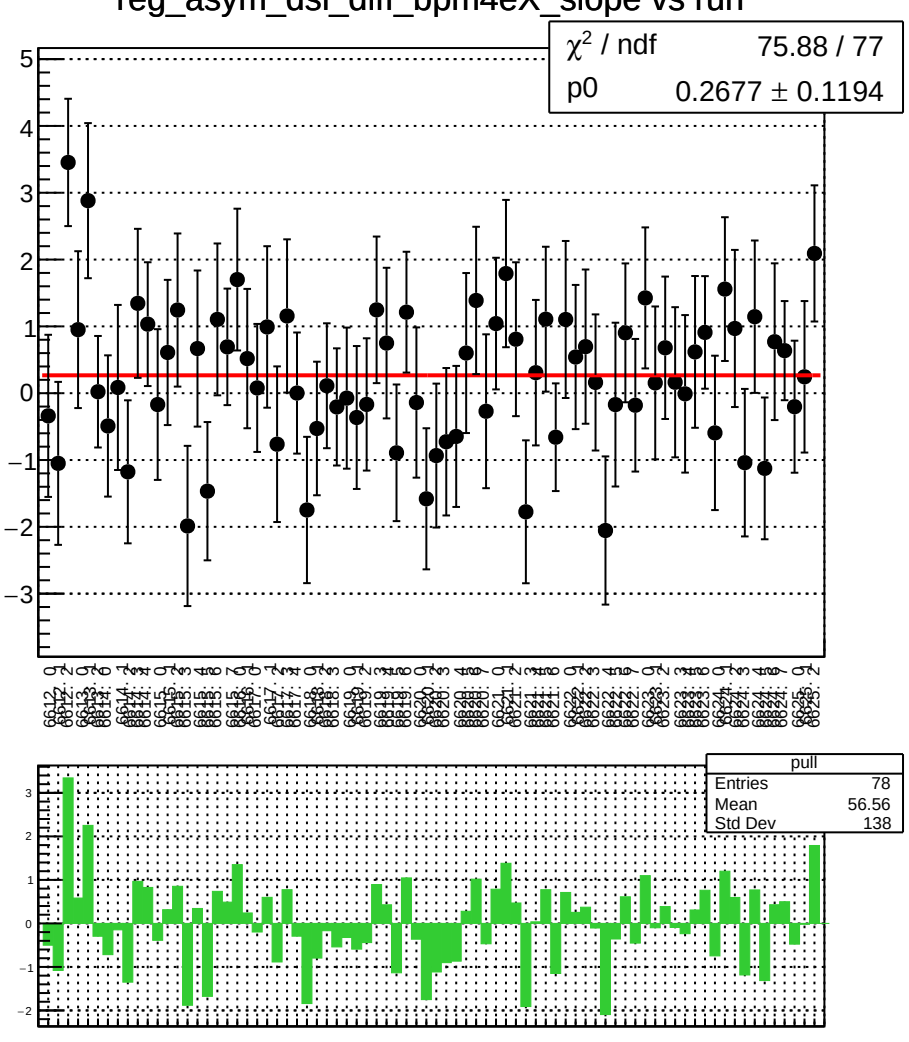

pull1D
Entries 78
Mean 0.08149
Std Dev 1.571

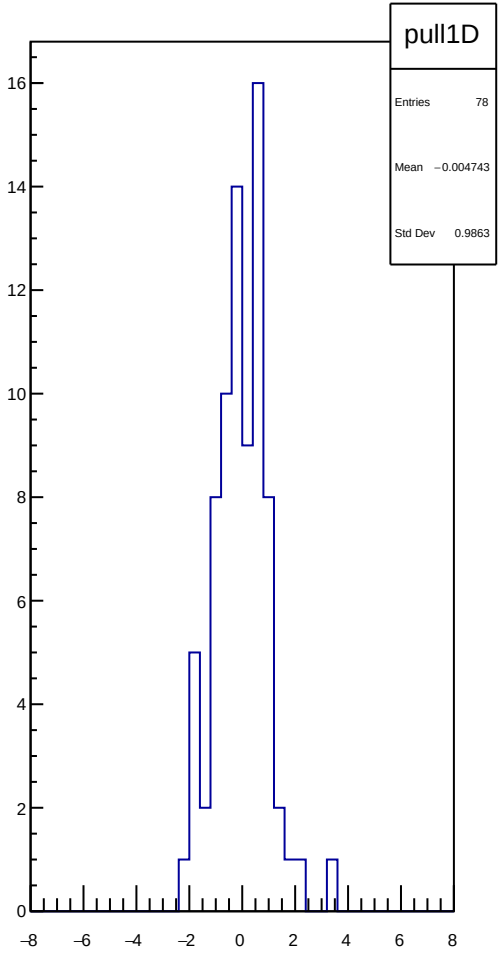

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 73.35 / 77
p0 −0.2551 ± 0.112
pull
Entries 78
Mean 217.7
Std Dev 235.5

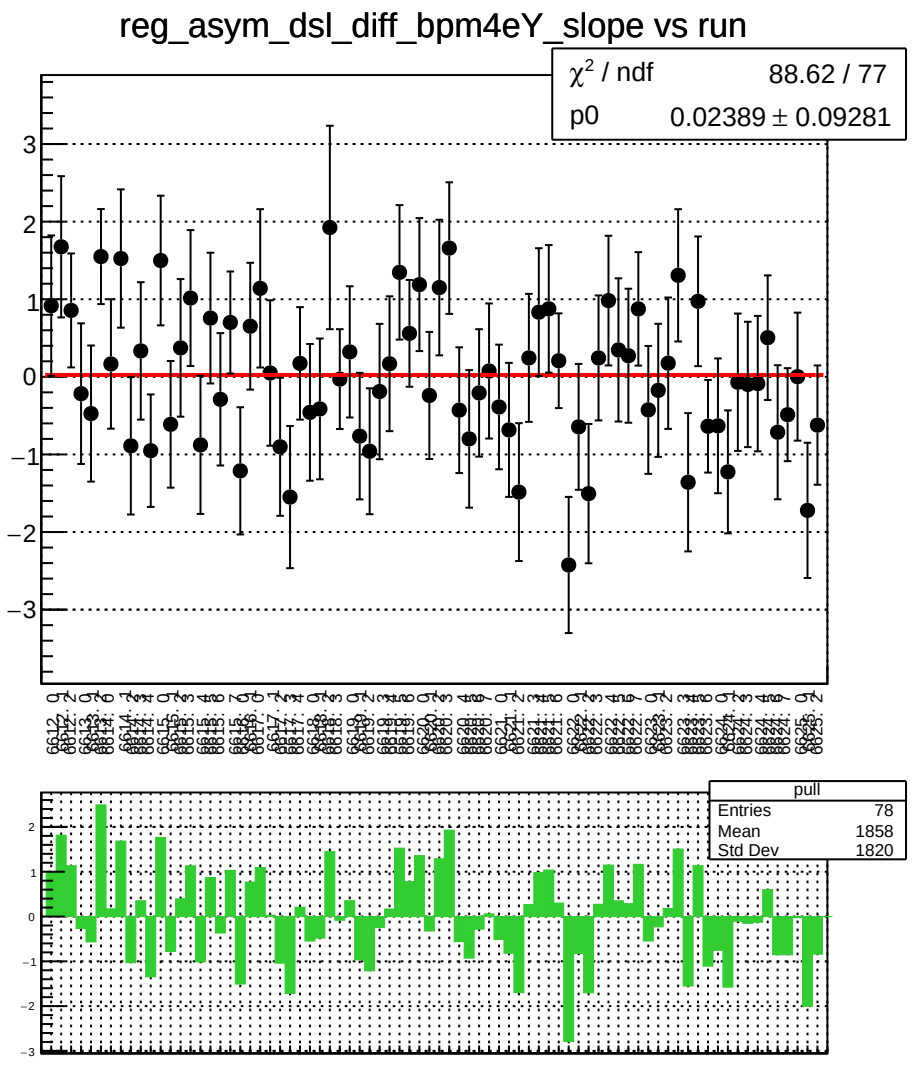

pull1D
Entries 78
Mean 0.003762
Std Dev 0.9697

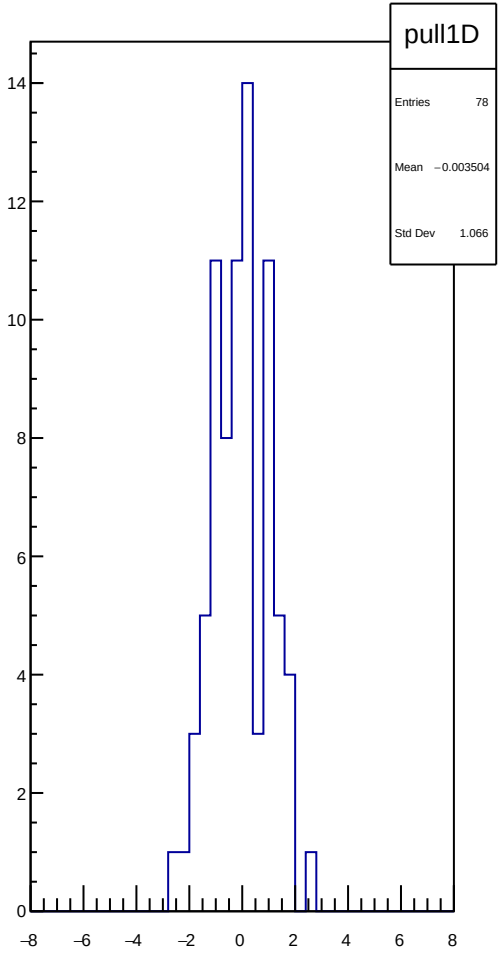

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 89.49 / 77
p0 −0.01266 ± 0.07768
pull
Entries 78
Mean −1721
Std Dev 1759

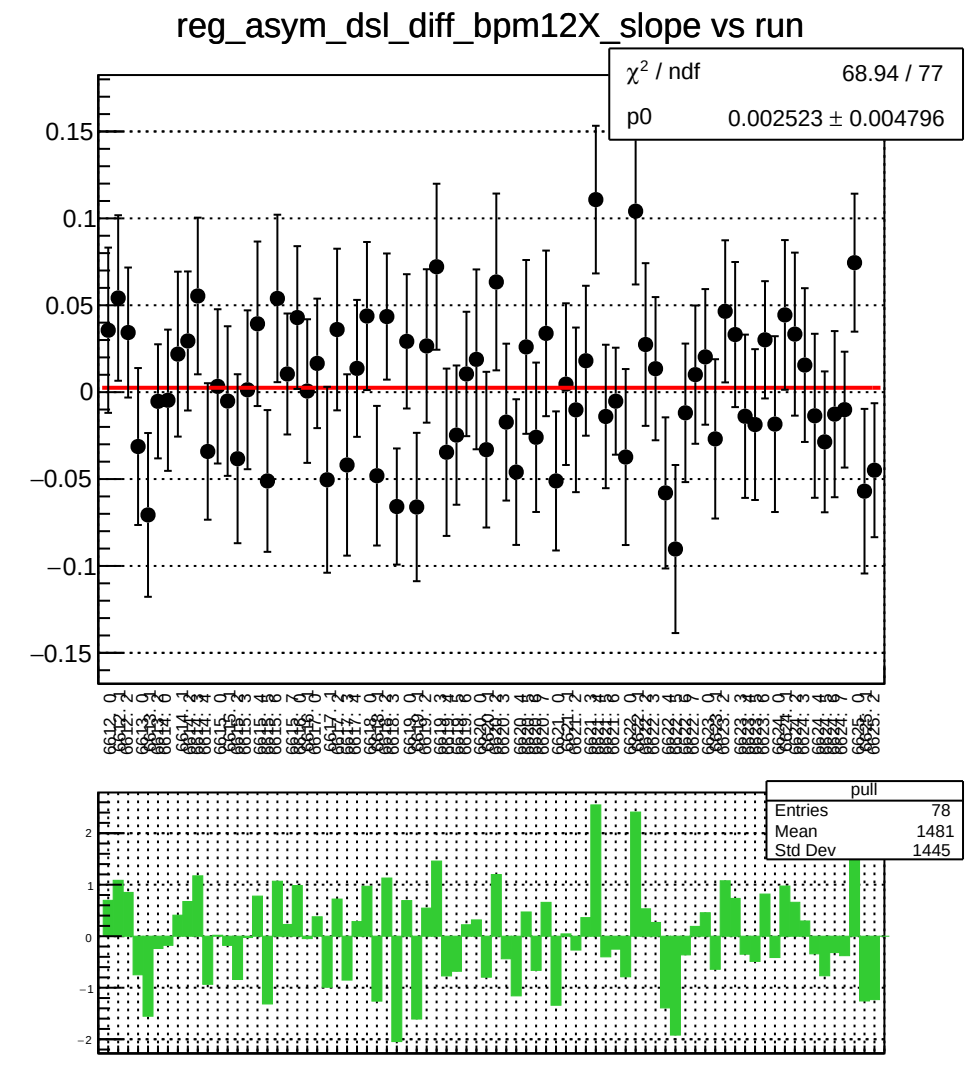

pull1D
Entries 78
Mean −0.003478
Std Dev 1.071

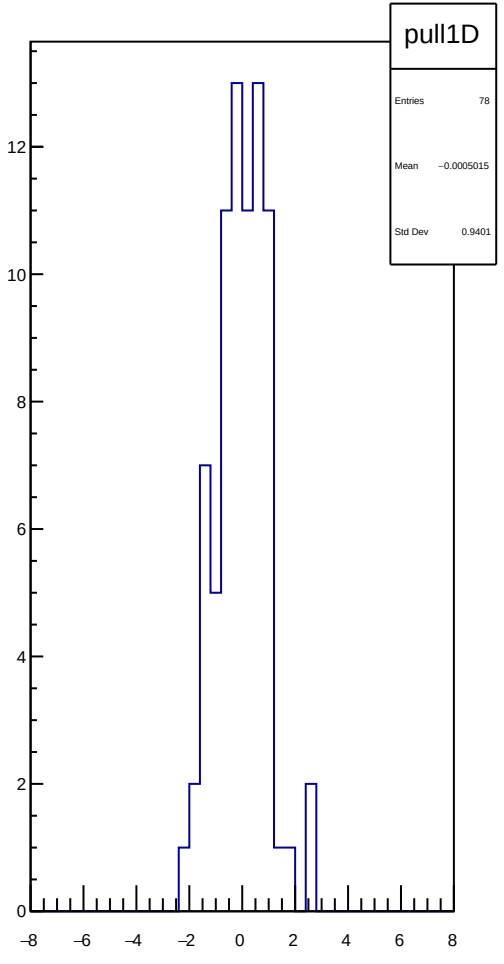

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 75.88 / 77
p0 0.2677 ± 0.1194
pull
Entries 78
Mean 56.56
Std Dev 138

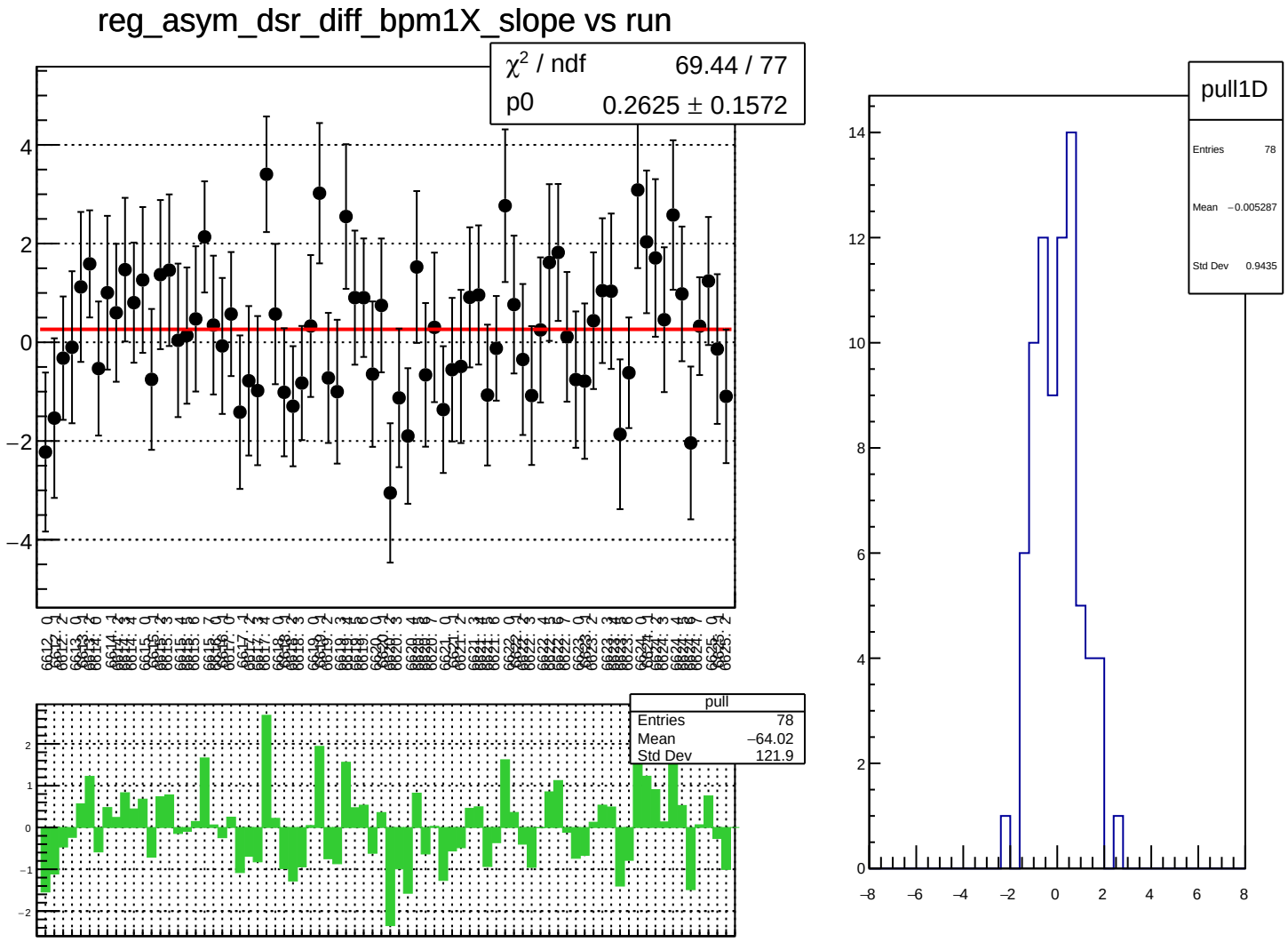

pull1D
Entries 78
Mean −0.004743
Std Dev 0.9863

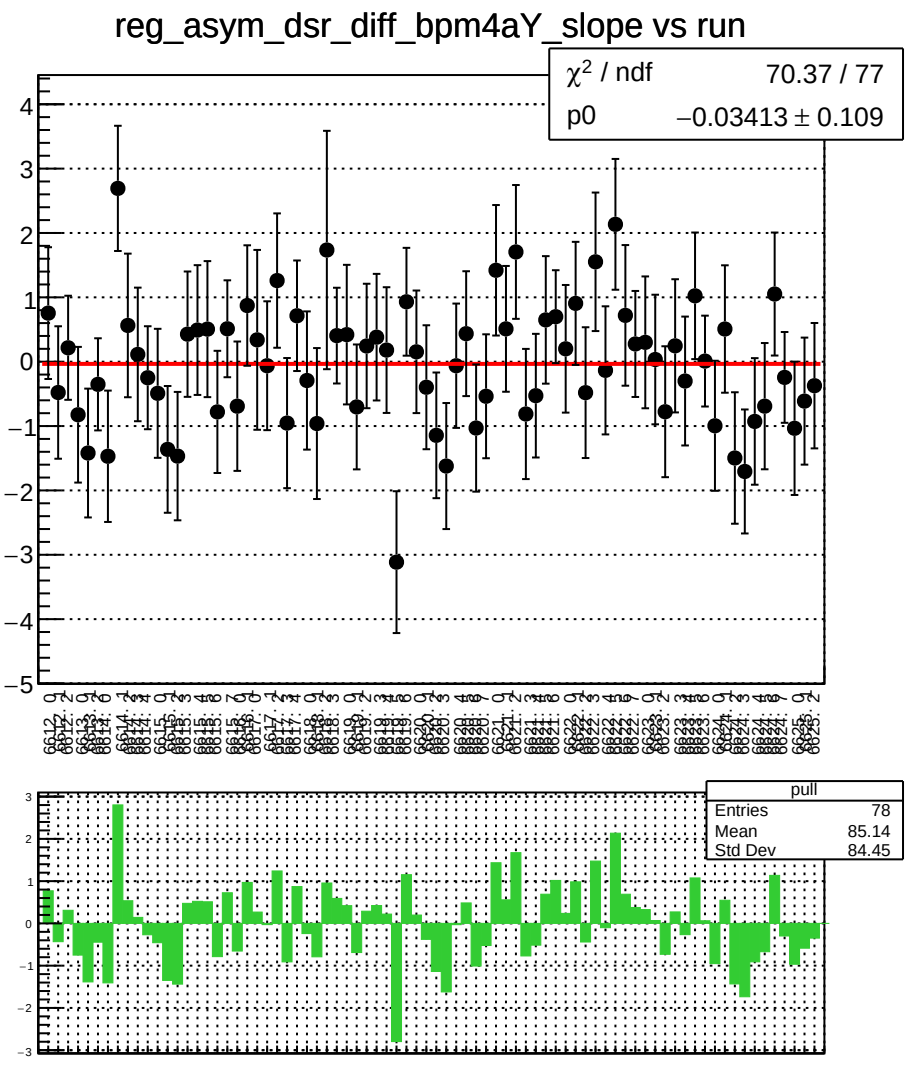

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 88.62 / 77
p0 0.02389 ± 0.09281
pull
Entries 78
Mean 1858
Std Dev 1820

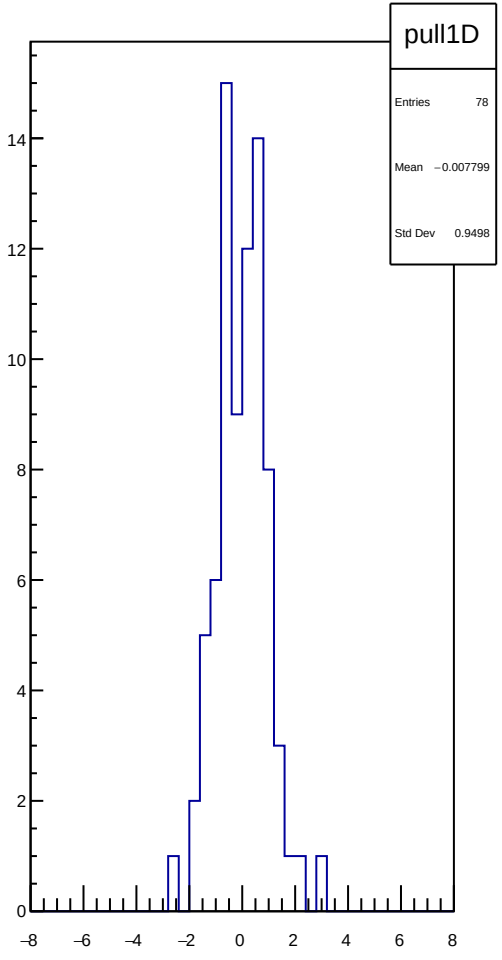

pull1D
Entries 78
Mean −0.003504
Std Dev 1.066

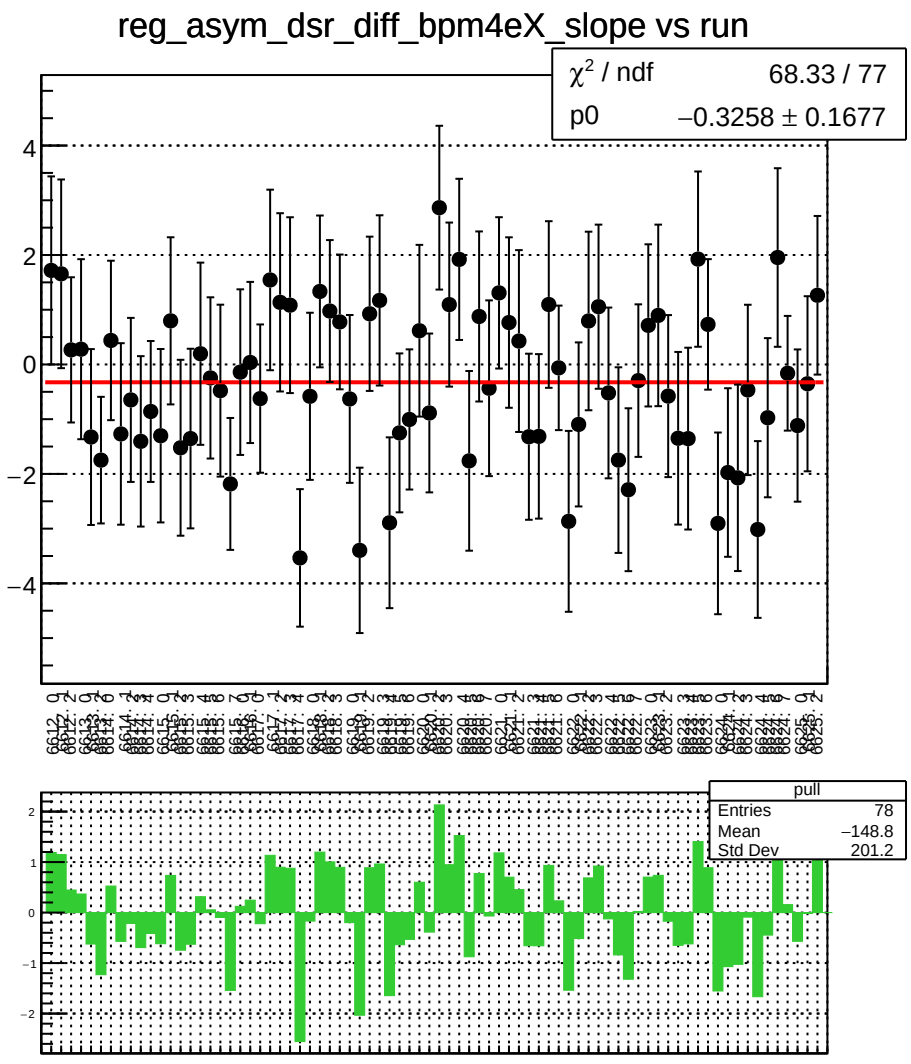

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 68.94 / 77
p0 0.002523 ± 0.004796
pull
Entries 78
Mean 1481
Std Dev 1445

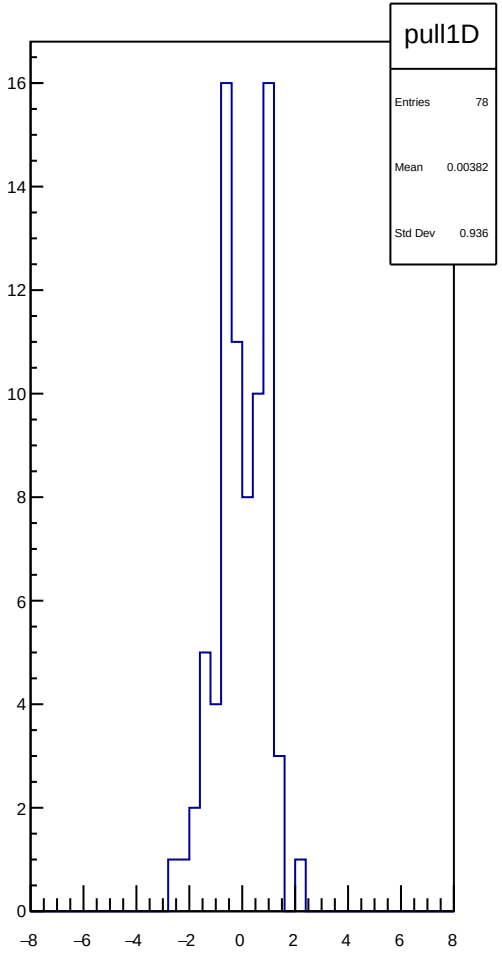

pull1D
Entries 78
Mean −0.0005015
Std Dev 0.9401

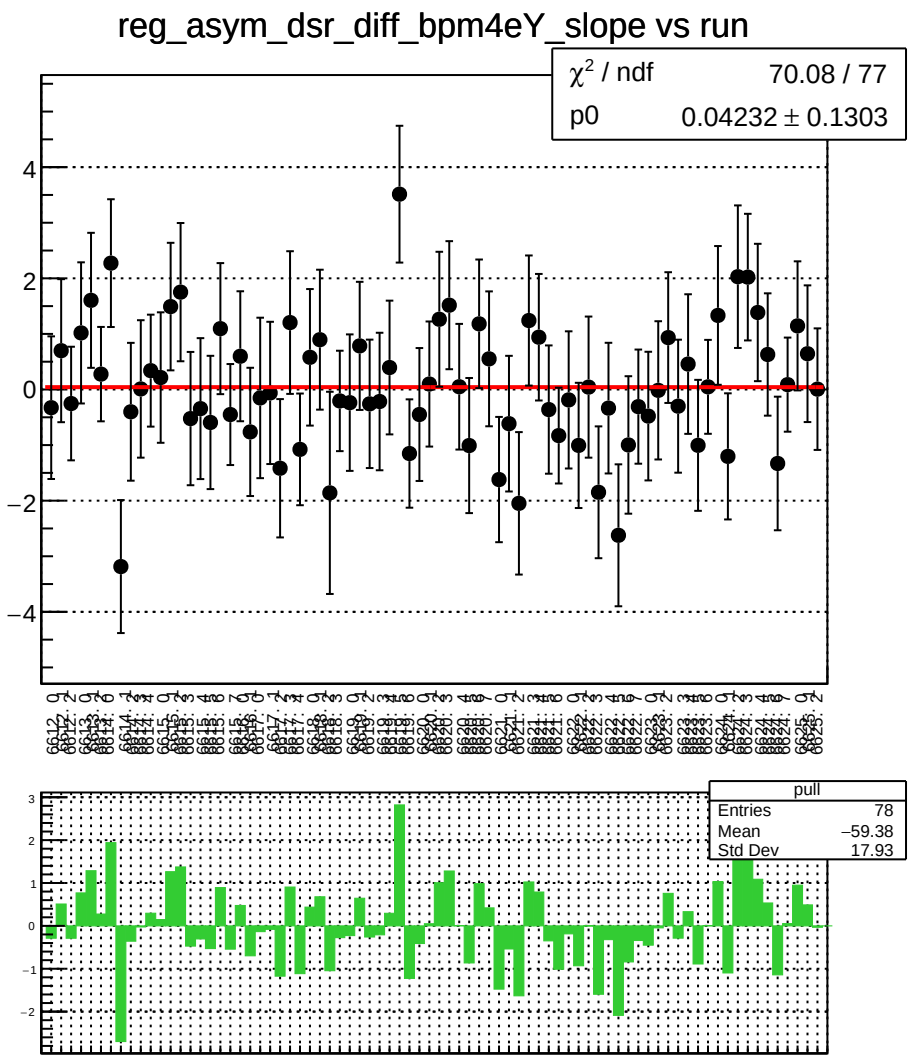

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 69.44 / 77
p0 0.2625 ± 0.1572
pull
Entries 78
Mean −64.02
Std Dev 121.9
pull1D
Entries 78
Mean −0.005287
Std Dev 0.9435

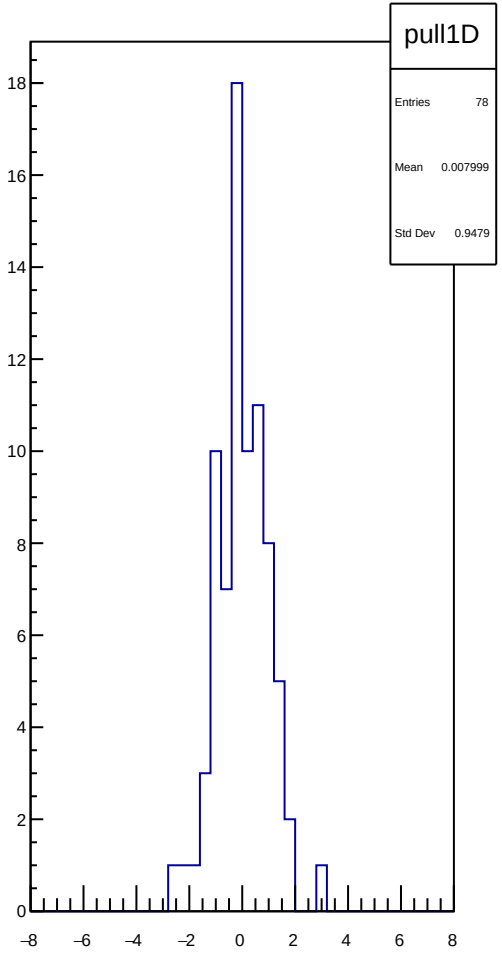

reg_asym_dsr_diff_bpm4aY_slope vs run
χ^2 / ndf 70.37 / 77
p0 −0.03413 ± 0.109
pull
Entries 78
Mean 85.14
Std Dev 84.45

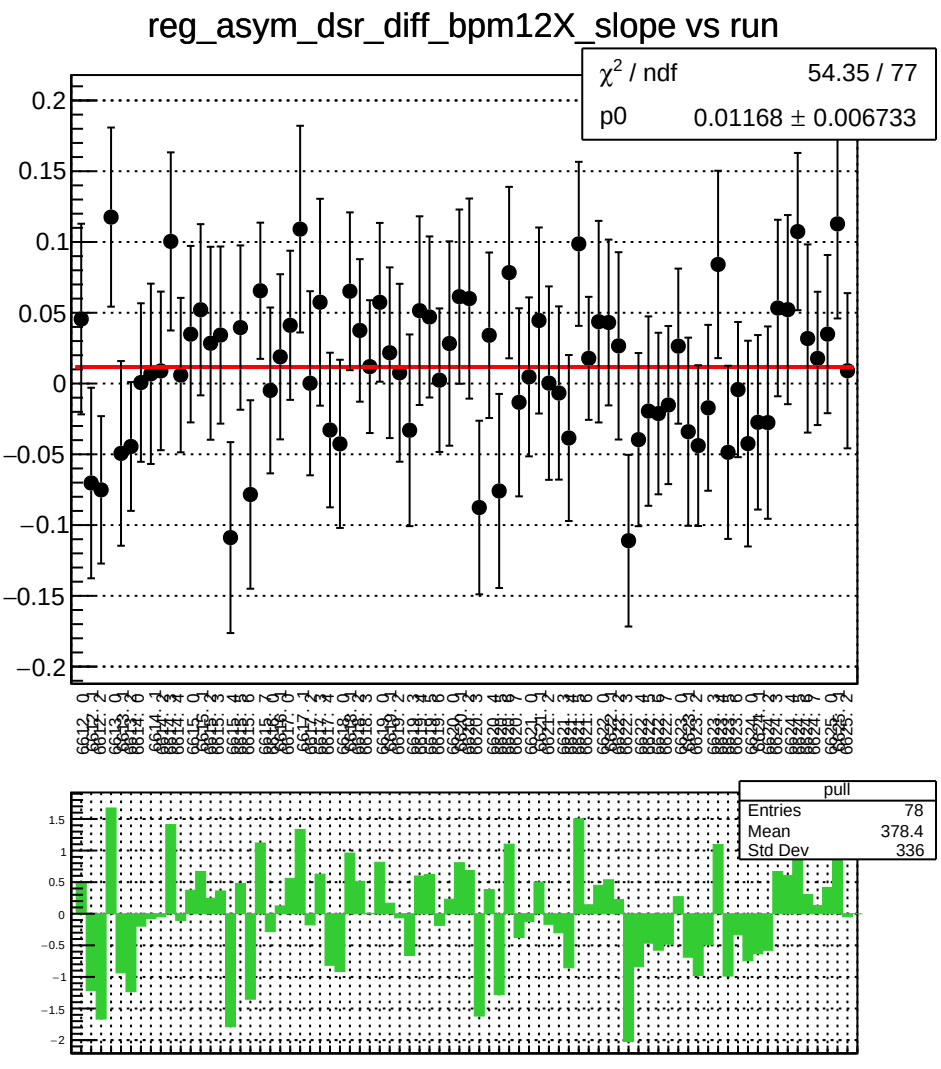

pull1D
Entries 78
Mean −0.007799
Std Dev 0.9498

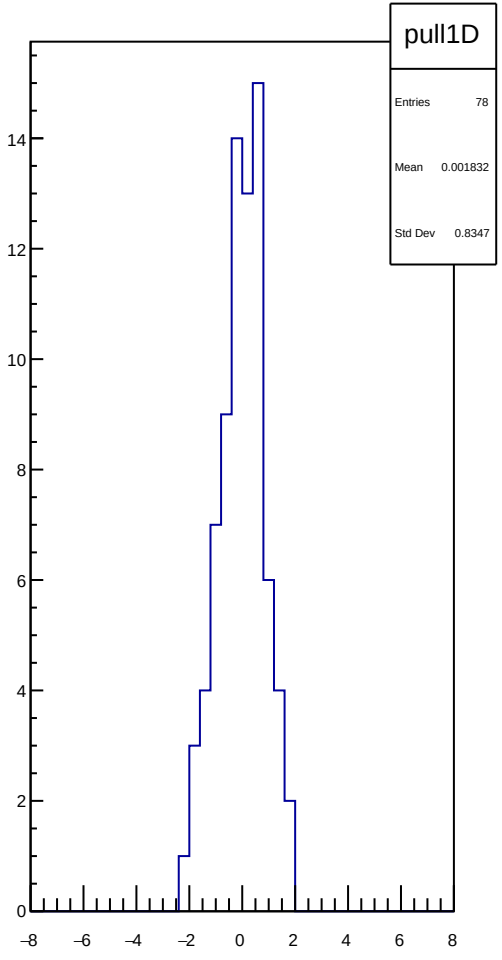

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 68.33 / 77
p0 −0.3258 ± 0.1677
pull
Entries 78
Mean −148.8
Std Dev 201.2

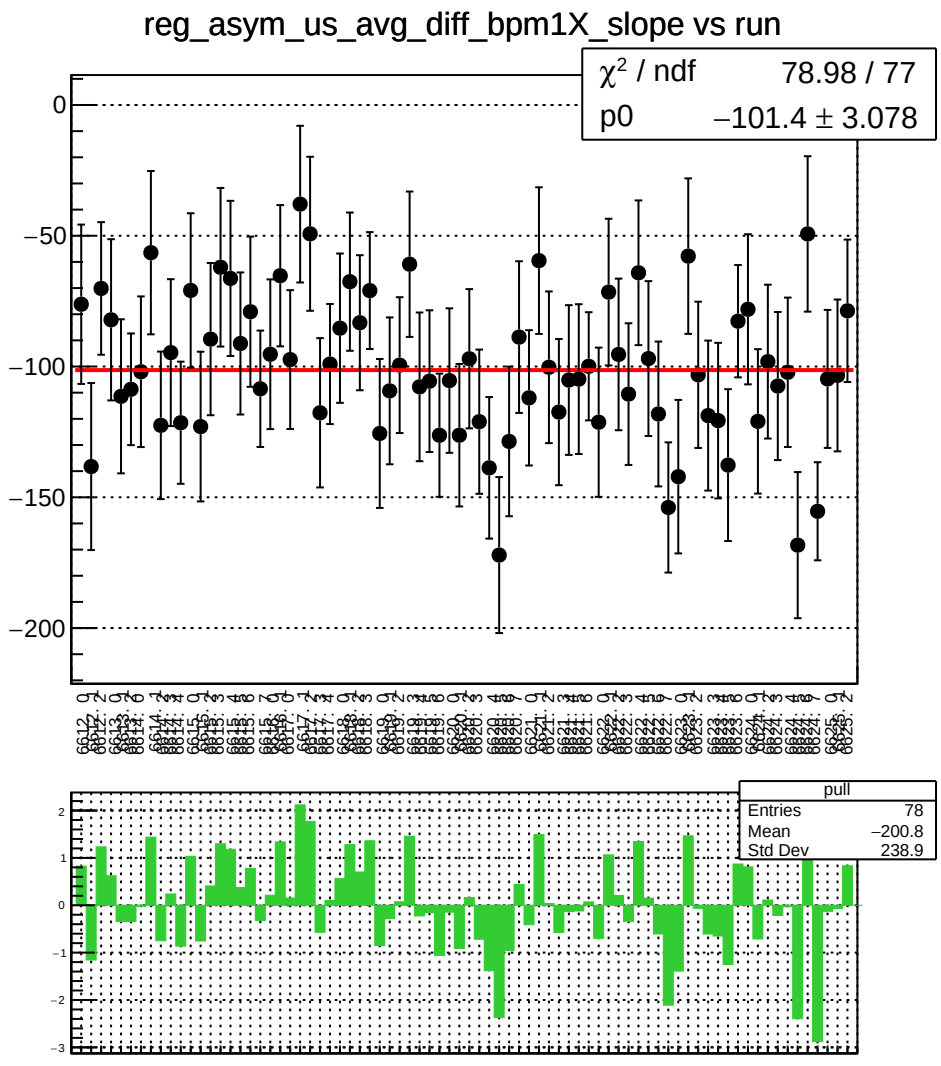

pull1D
Entries 78
Mean 0.00382
Std Dev 0.936

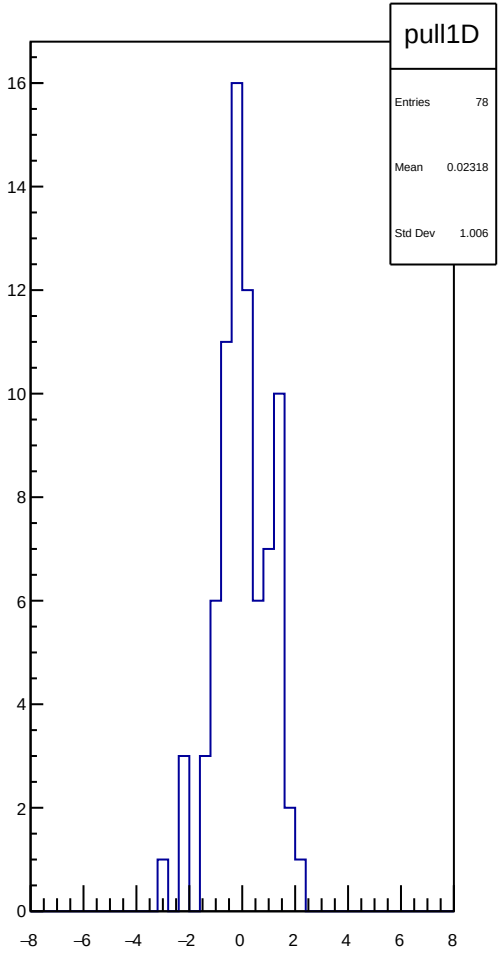

reg_asym_dsr_diff_bpm4eY_slope vs run
χ^2 / ndf 70.08 / 77
p0 0.04232 ± 0.1303
pull
Entries 78
Mean −59.38
Std Dev 17.93

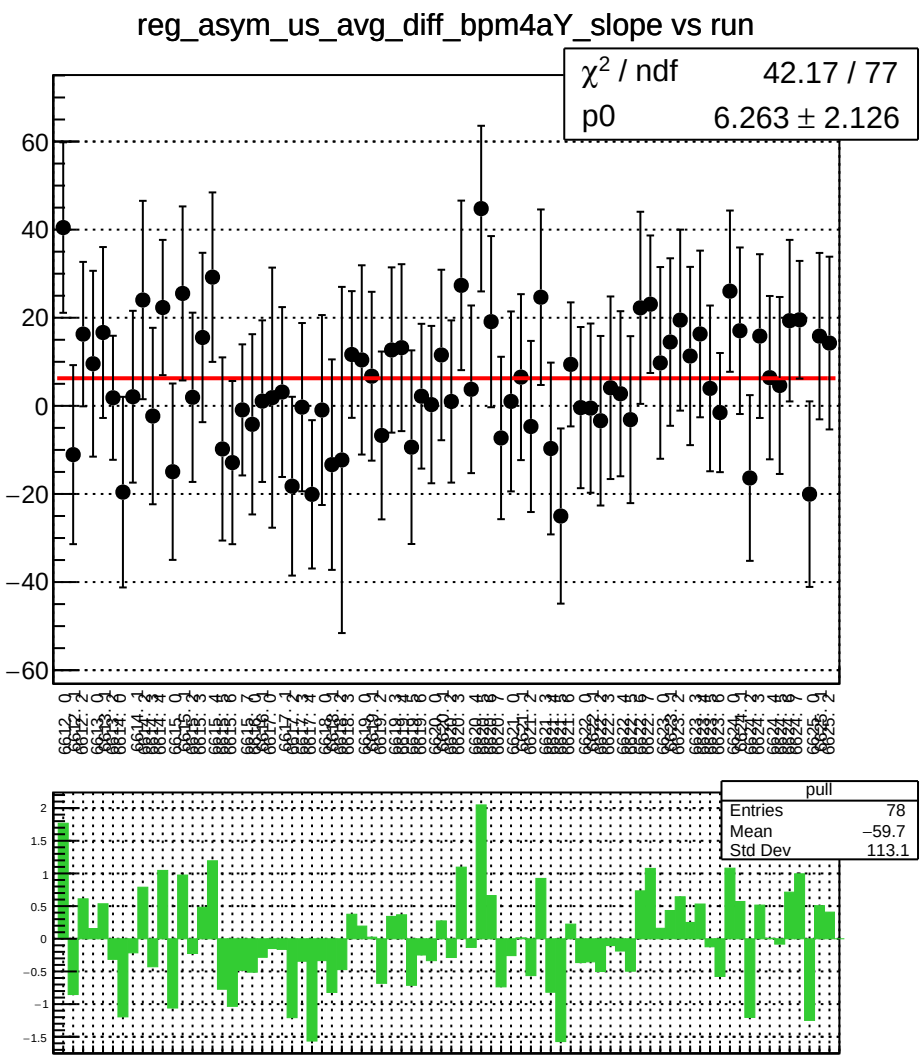

pull1D
Entries 78
Mean 0.007999
Std Dev 0.9479

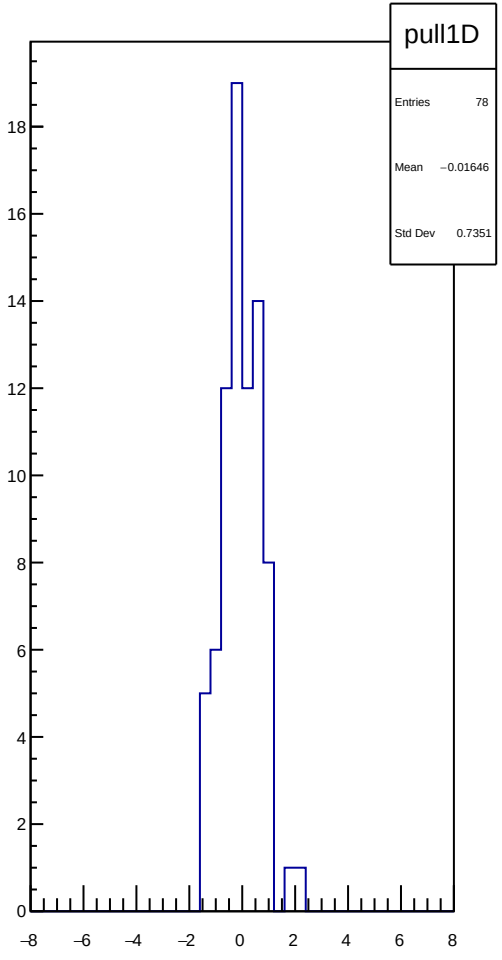

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 54.35 / 77
p0 0.01168 ± 0.006733
pull
Entries 78
Mean 378.4
Std Dev 336

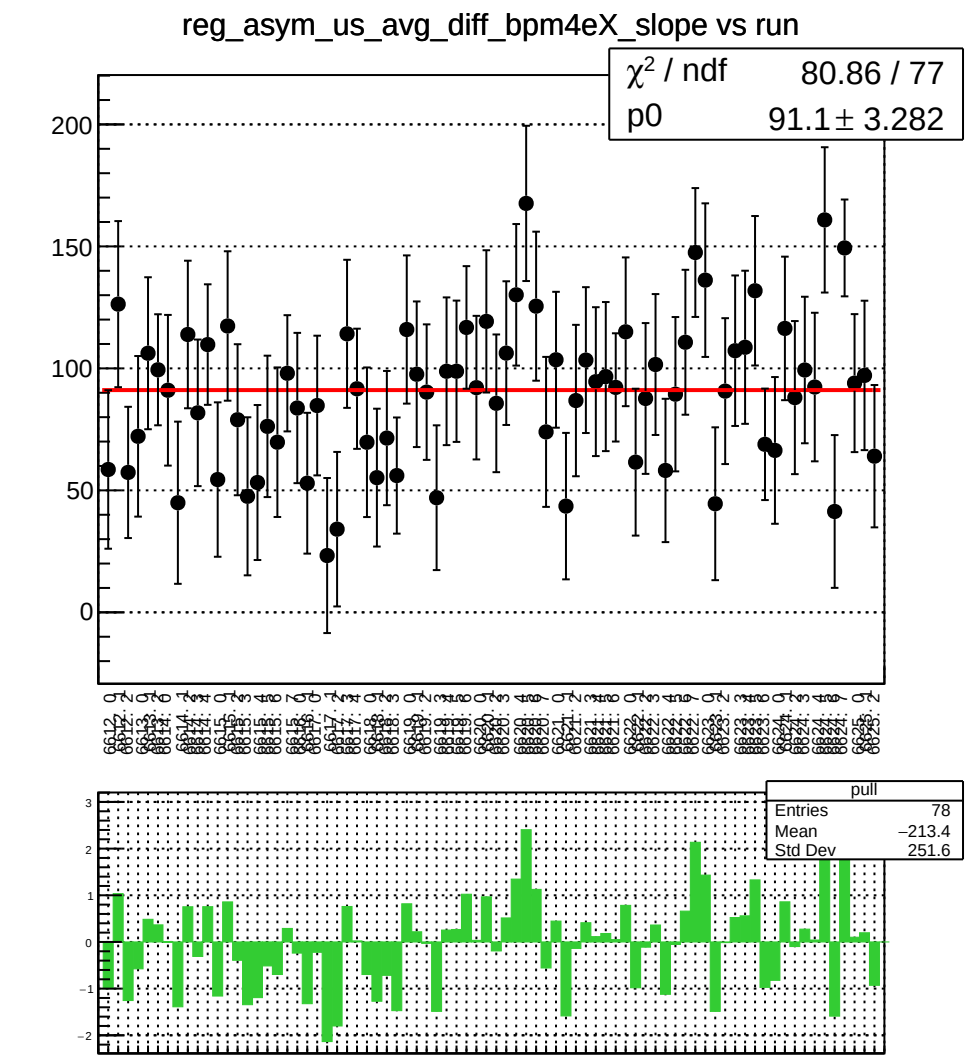

pull1D
Entries 78
Mean 0.001832
Std Dev 0.8347

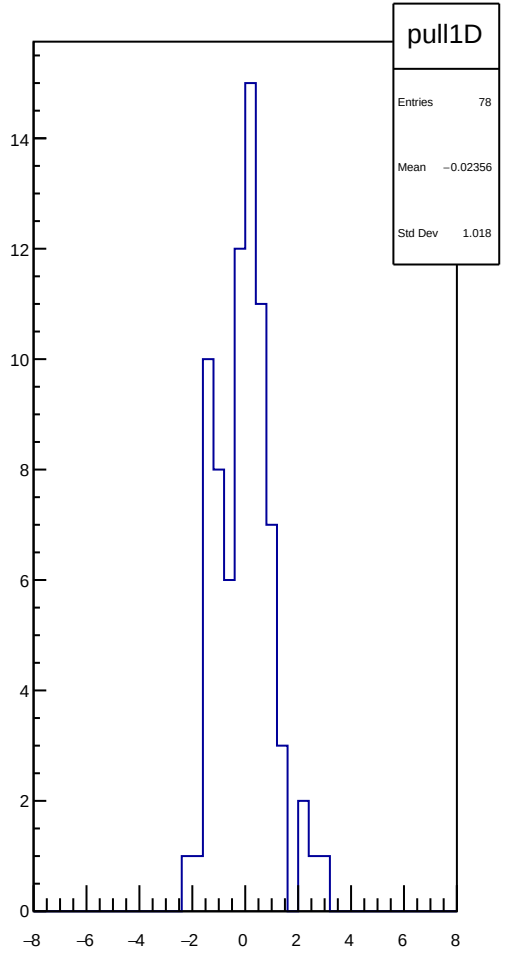

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 78.98 / 77
p0 −101.4 ± 3.078
pull
Entries 78
Mean −200.8
Std Dev 238.9

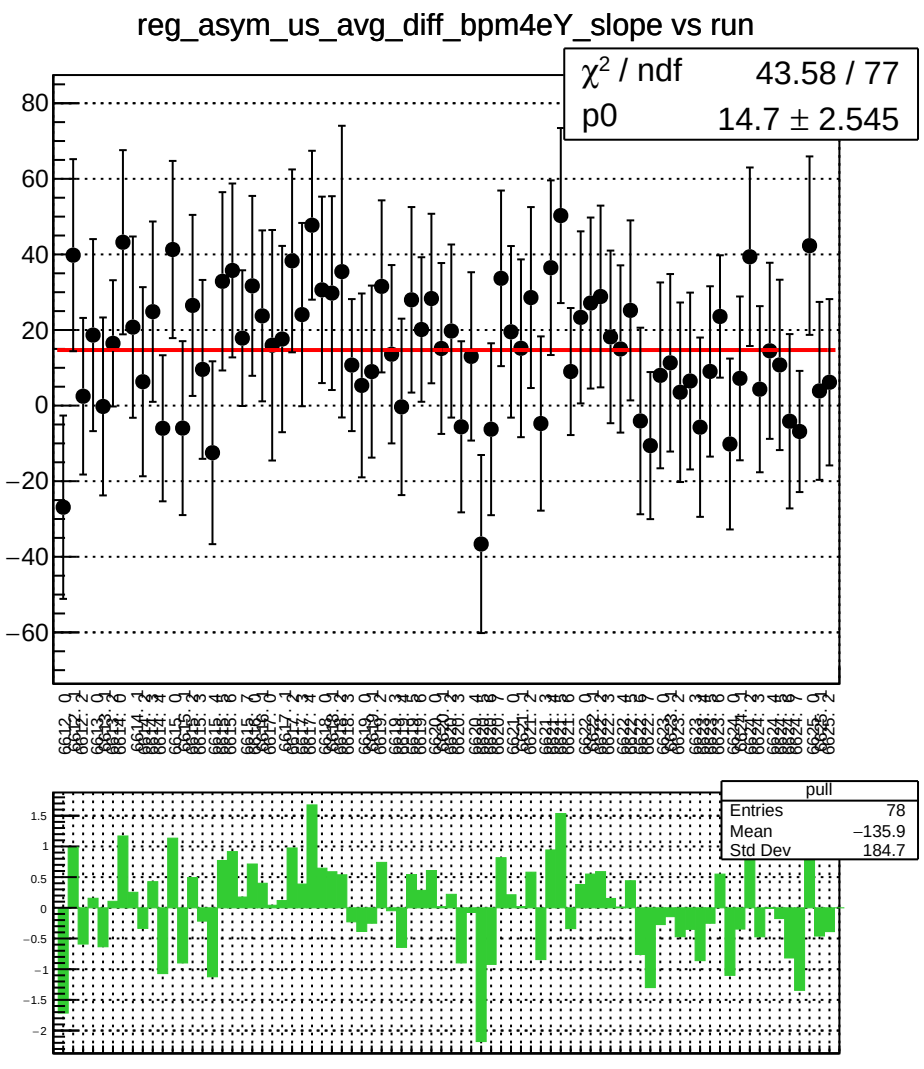

pull1D
Entries 78
Mean 0.02318
Std Dev 1.006

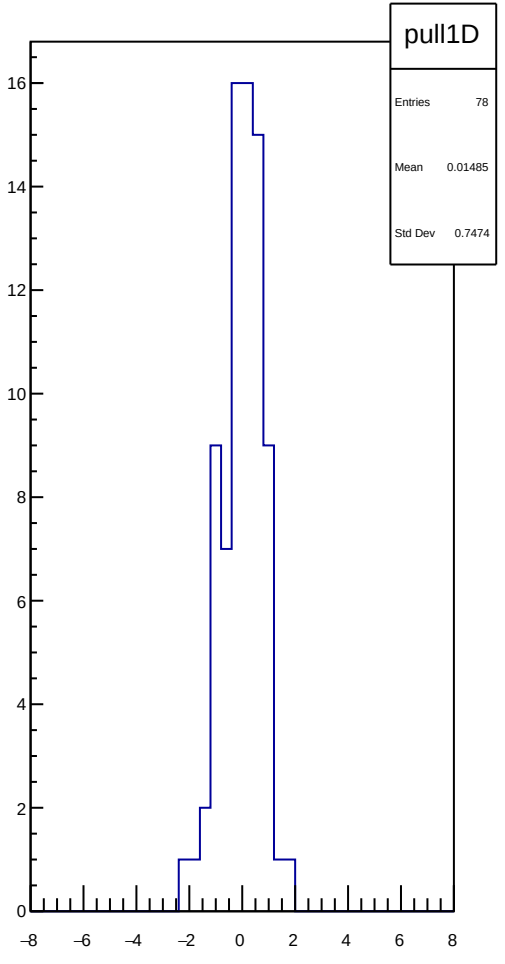

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.17 / 77
p0 6.263 ± 2.126
pull
Entries 78
Mean −59.7
Std Dev 113.1

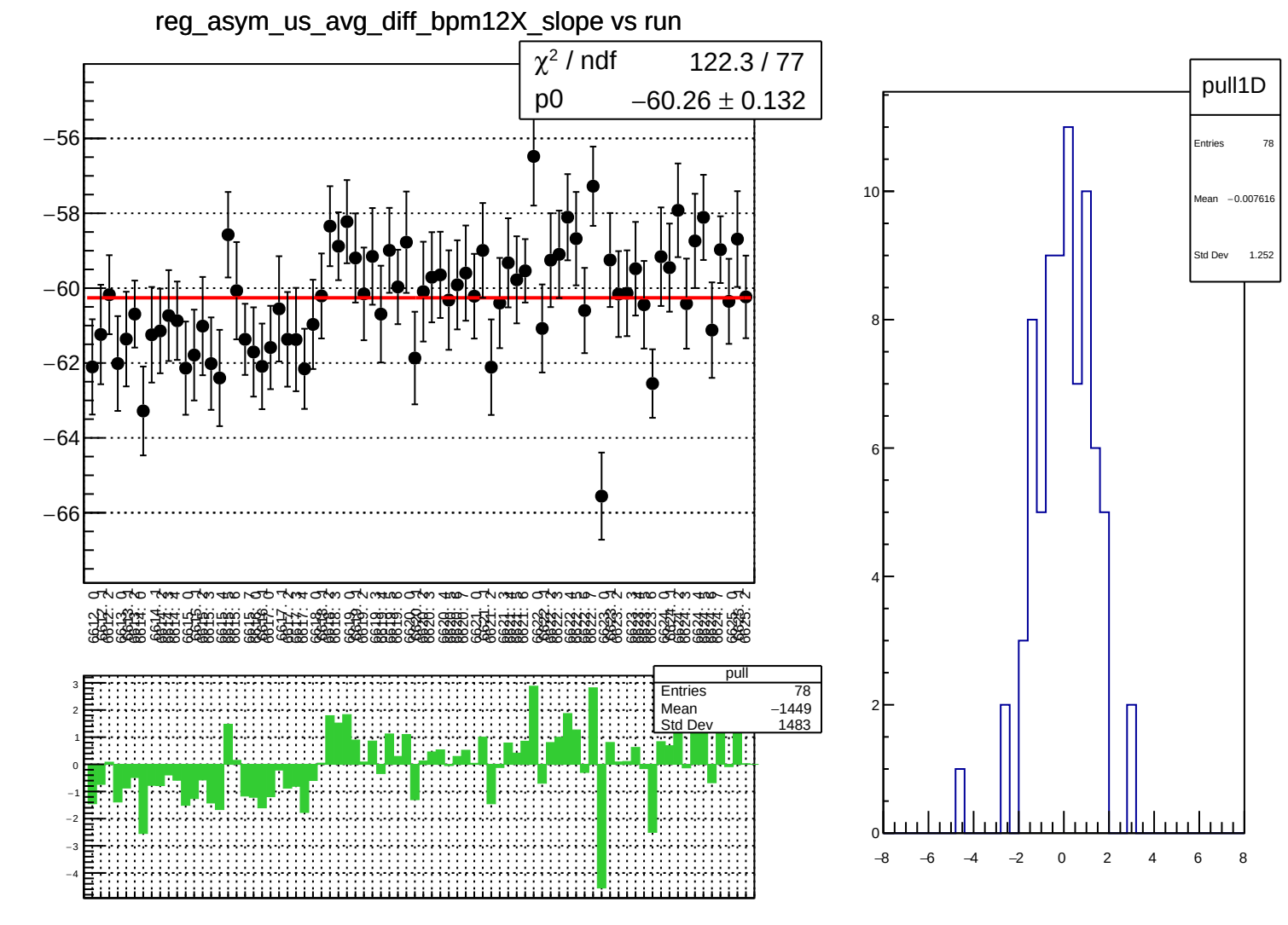

pull1D
Entries 78
Mean −0.01646
Std Dev 0.7351

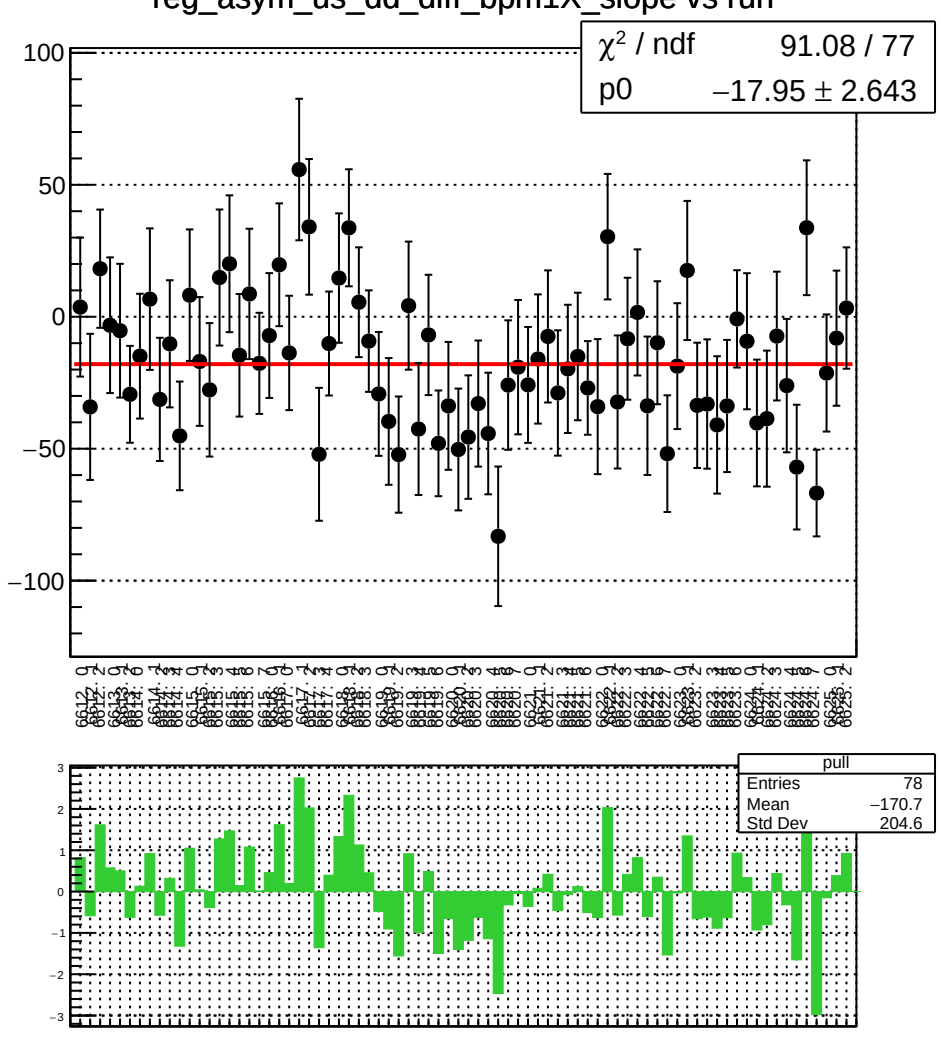

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.86 / 77
p0 91.1 ± 3.282
200
150
100
50
0
pull
Entries 78
Mean −213.4
Std Dev 251.6
3
2
1
0
−1
−2

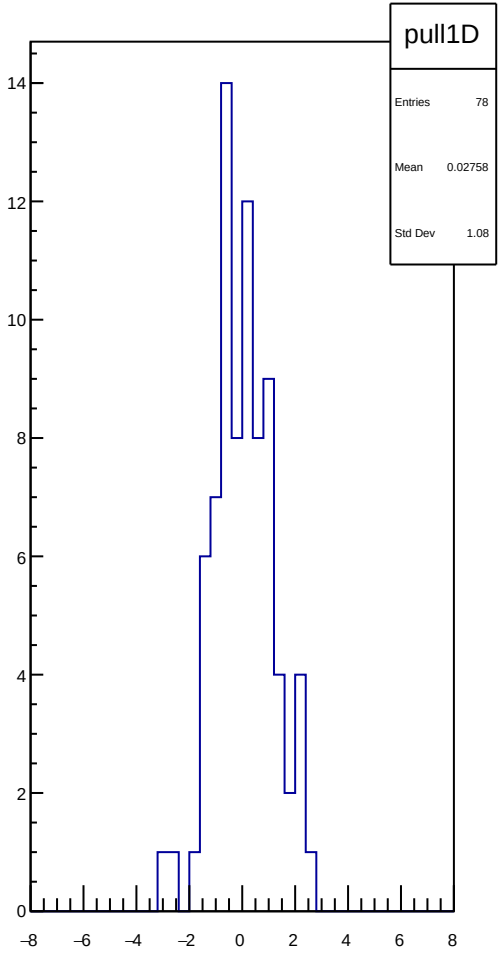

pull1D
Entries 78
Mean −0.02356
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

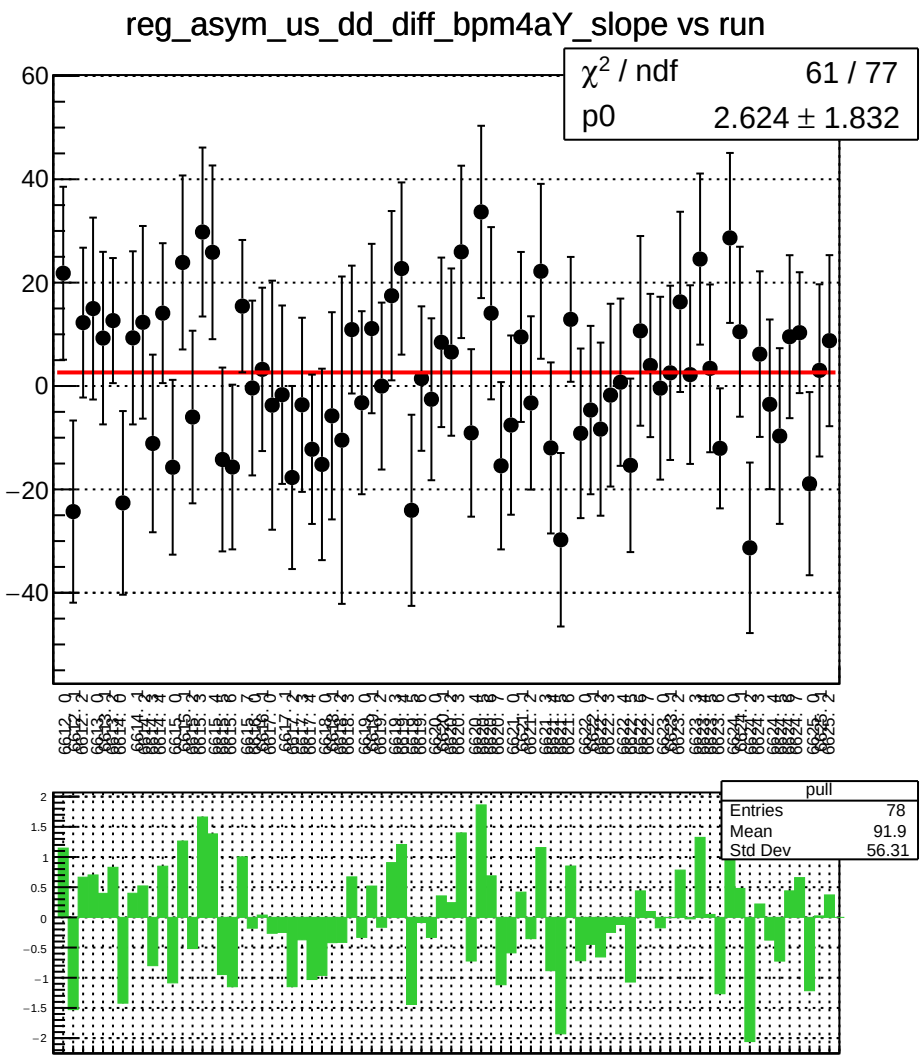

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.58 / 77
p0 14.7 ± 2.545
pull
Entries 78
Mean −135.9
Std Dev 184.7

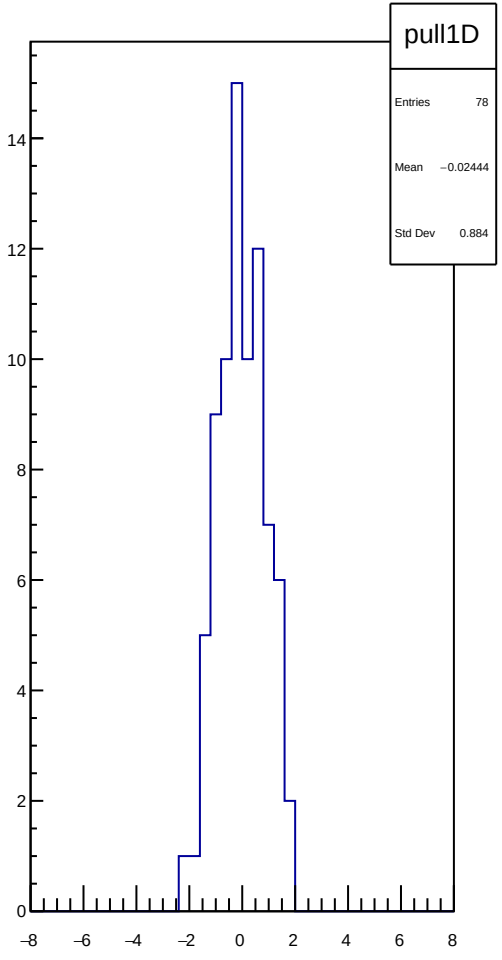

pull1D
Entries 78
Mean 0.01485
Std Dev 0.7474

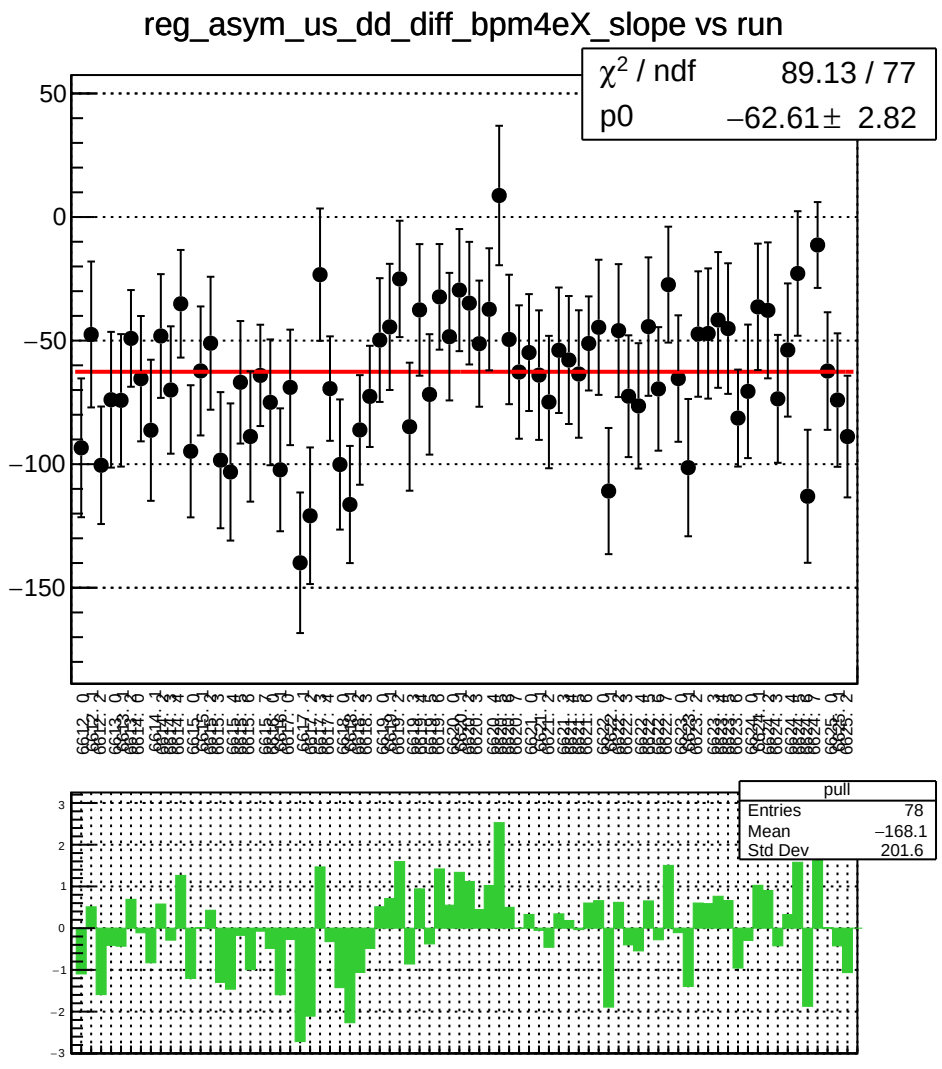

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 122.3 / 77
p0 −60.26 ± 0.132
pull
Entries 78
Mean −1449
Std Dev 1483
pull1D
Entries 78
Mean −0.007616
Std Dev 1.252

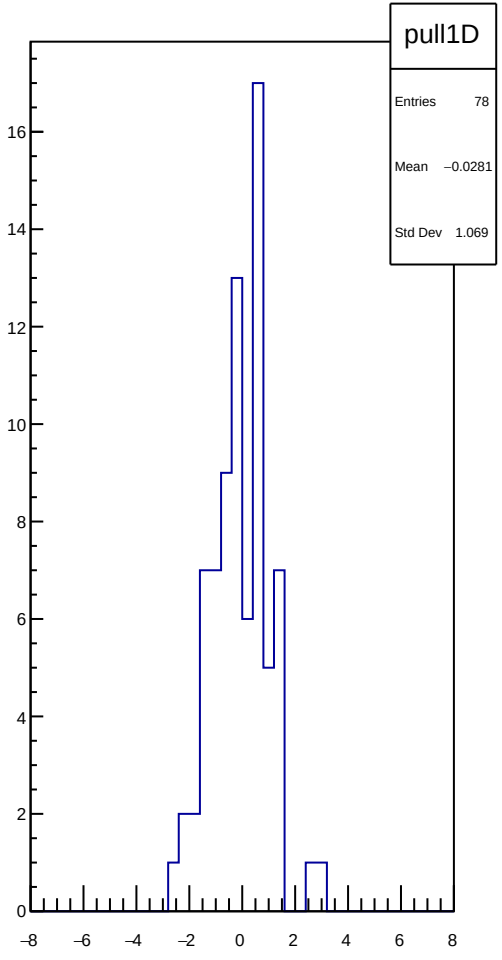

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 91.08 / 77
p0 −17.95 ± 2.643
pull
Entries 78
Mean −170.7
Std Dev 204.6

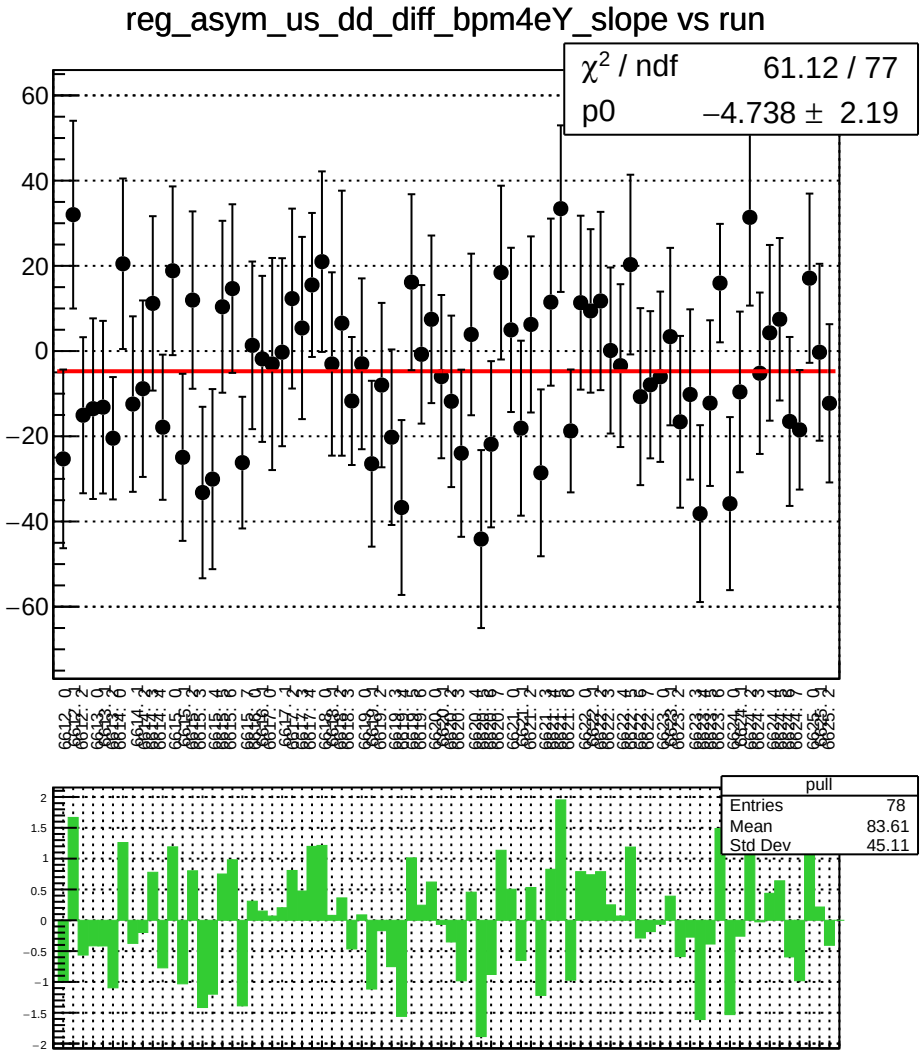

pull1D
Entries 78
Mean 0.02758
Std Dev 1.08

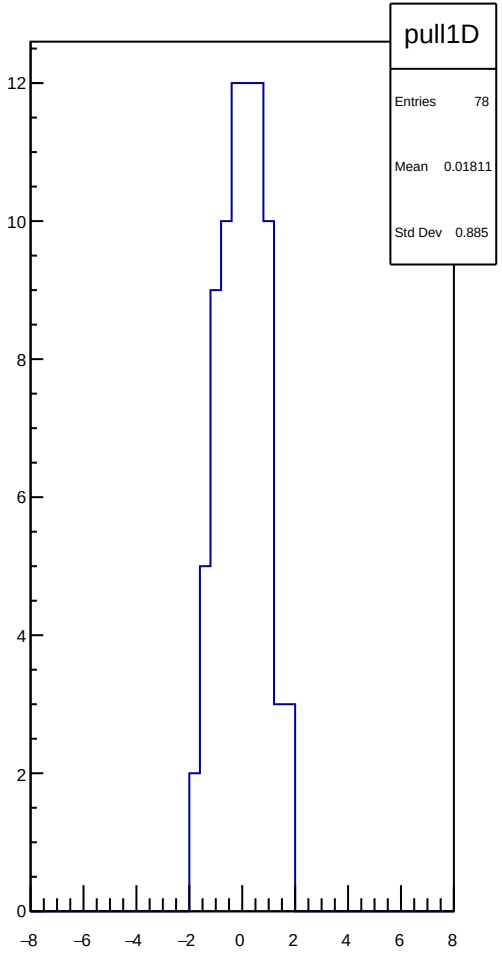

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 61 / 77
p0 2.624 ± 1.832
pull
Entries 78
Mean 91.9
Std Dev 56.31

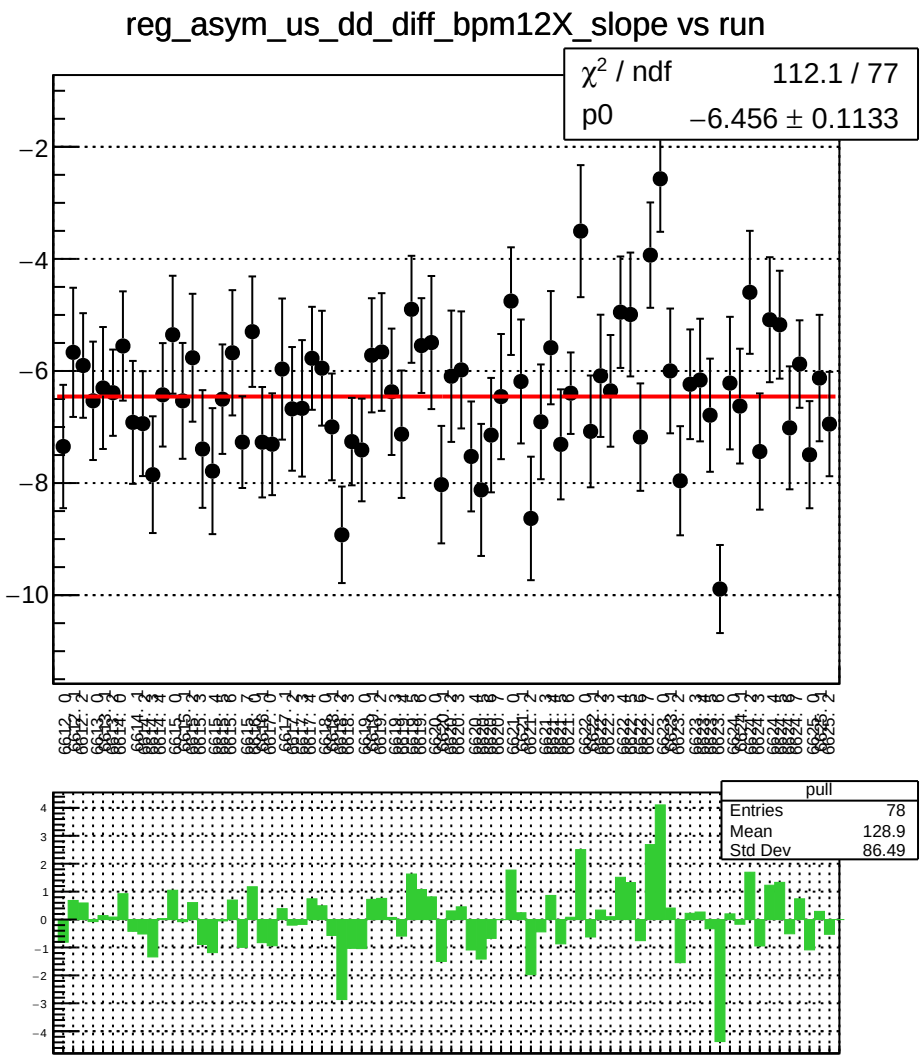

pull1D
Entries 78
Mean −0.02444
Std Dev 0.884

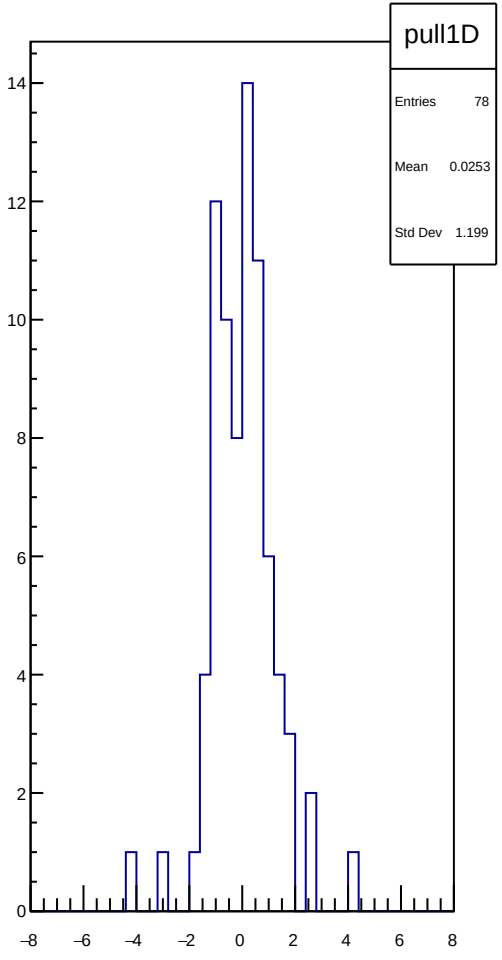

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.13 / 77
p0 −62.61 ± 2.82
pull
Entries 78
Mean −168.1
Std Dev 201.6

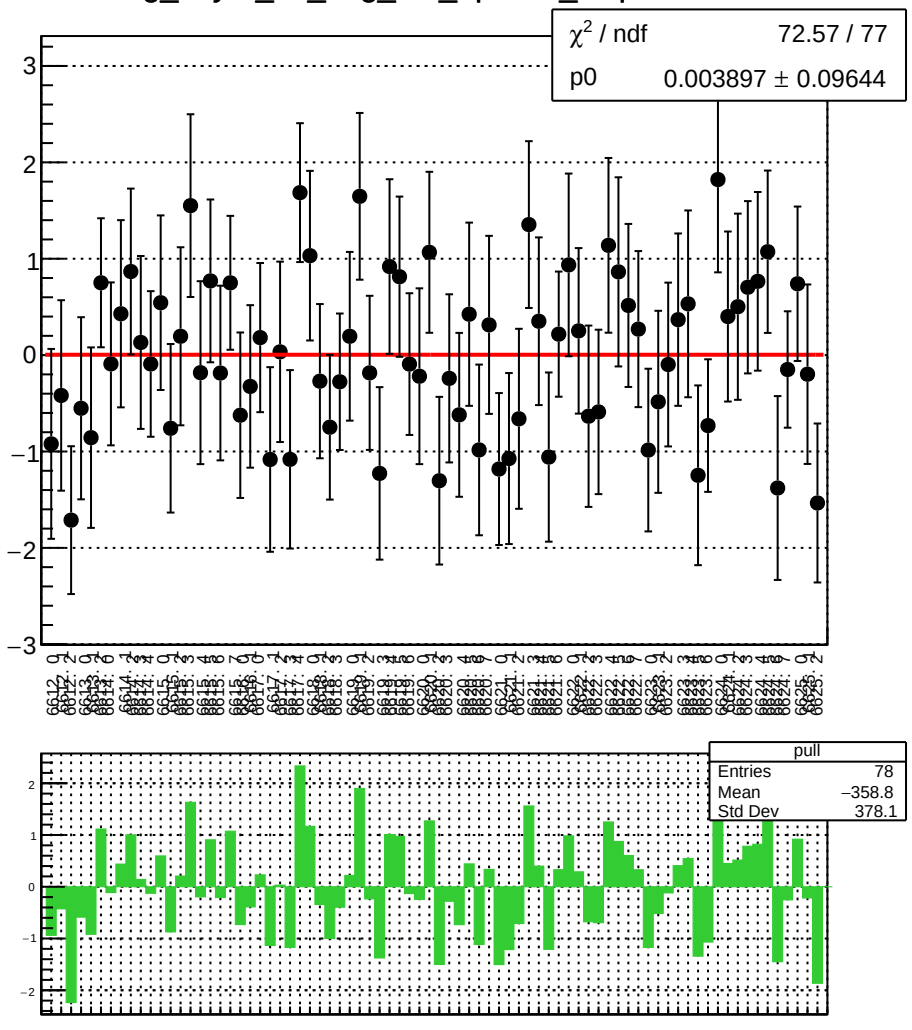

pull1D
Entries 78
Mean −0.0281
Std Dev 1.069

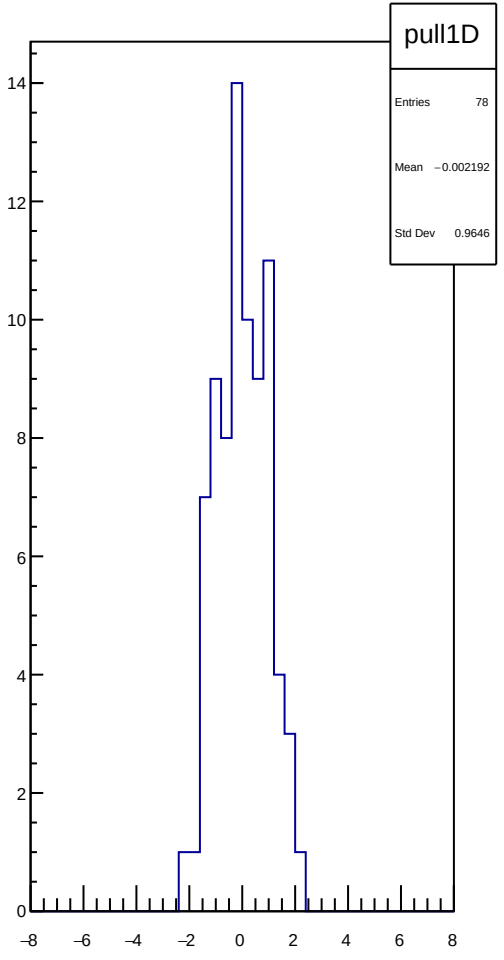

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.12 / 77
p0 −4.738 ± 2.19
pull
Entries 78
Mean 83.61
Std Dev 45.11

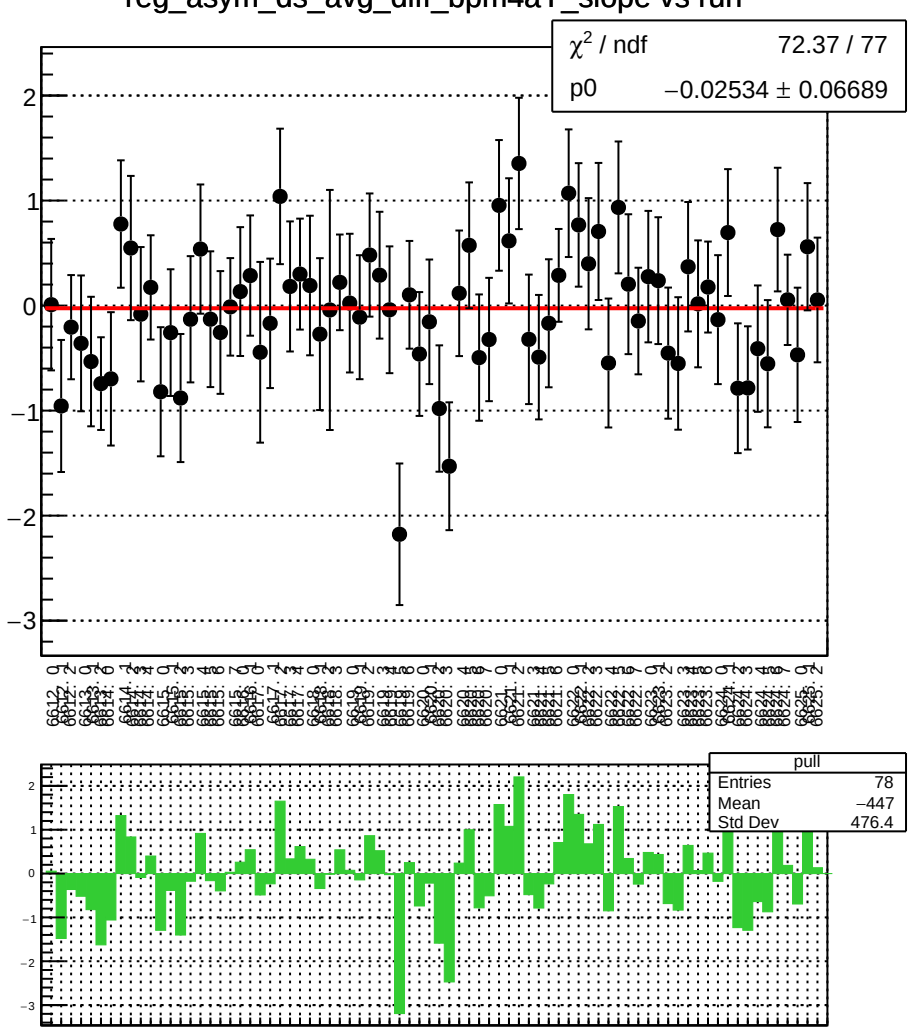

pull1D
Entries 78
Mean 0.01811
Std Dev 0.885

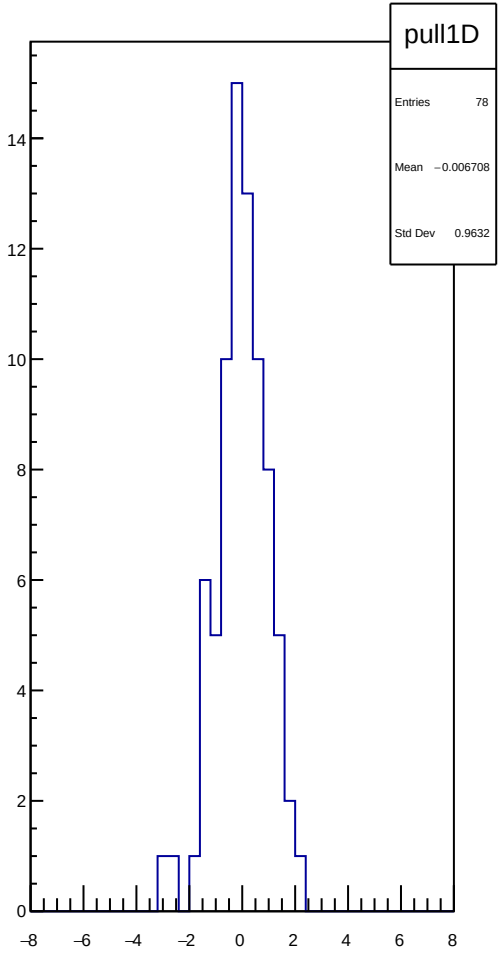

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 112.1 / 77
p0 −6.456 ± 0.1133
pull
Entries 78
Mean 128.9
Std Dev 86.49

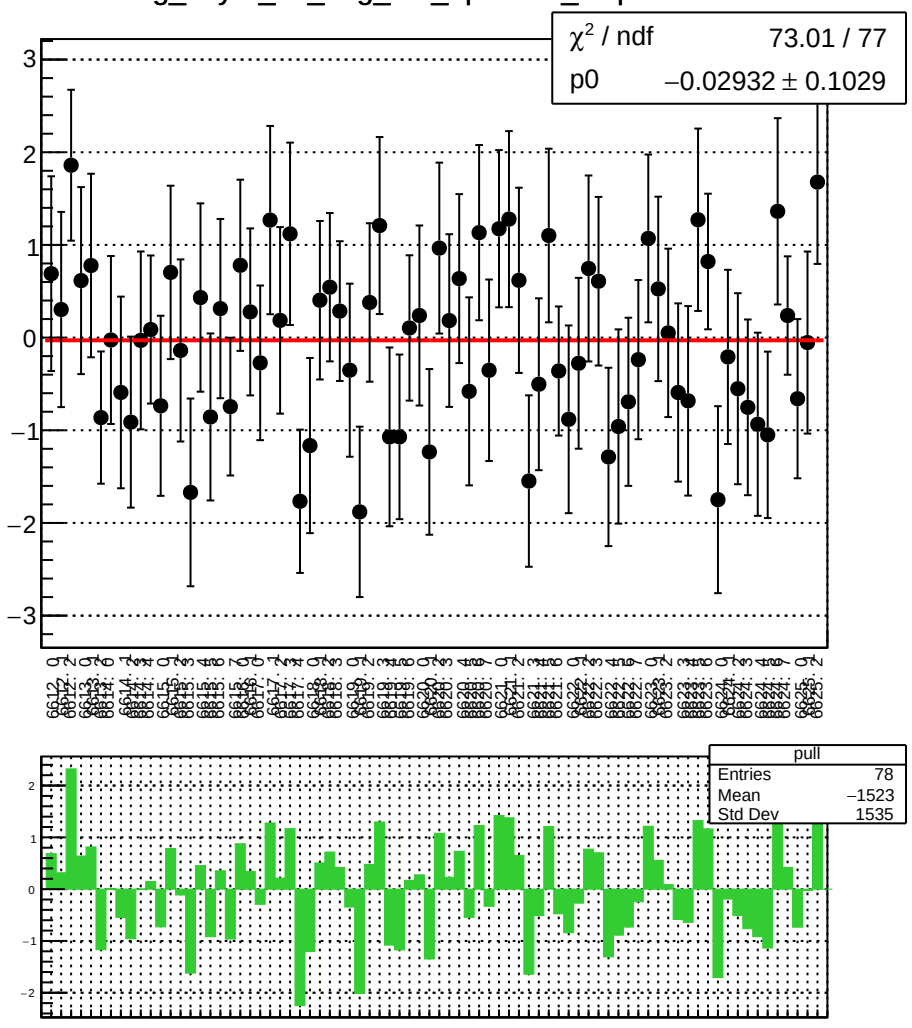

pull1D
Entries 78
Mean 0.0253
Std Dev 1.199

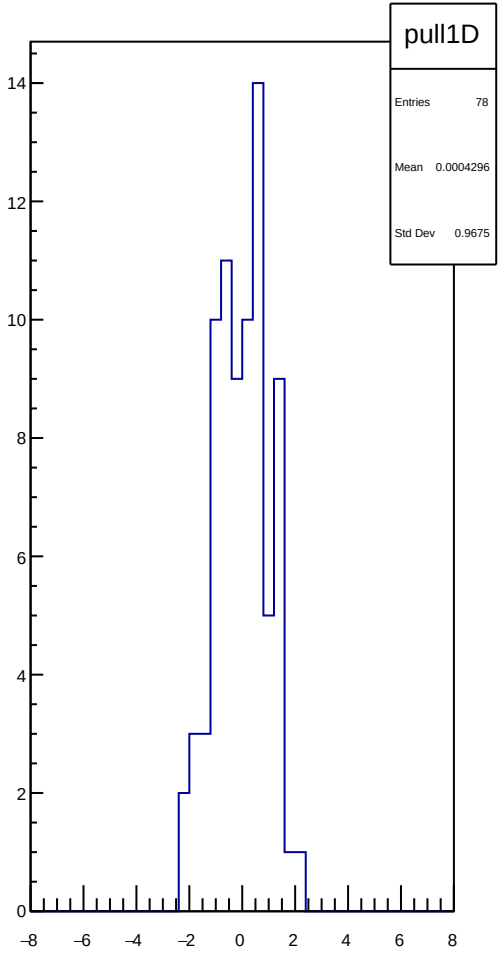

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 72.57 / 77
p0 0.003897 ± 0.09644
pull
Entries 78
Mean −358.8
Std Dev 378.1

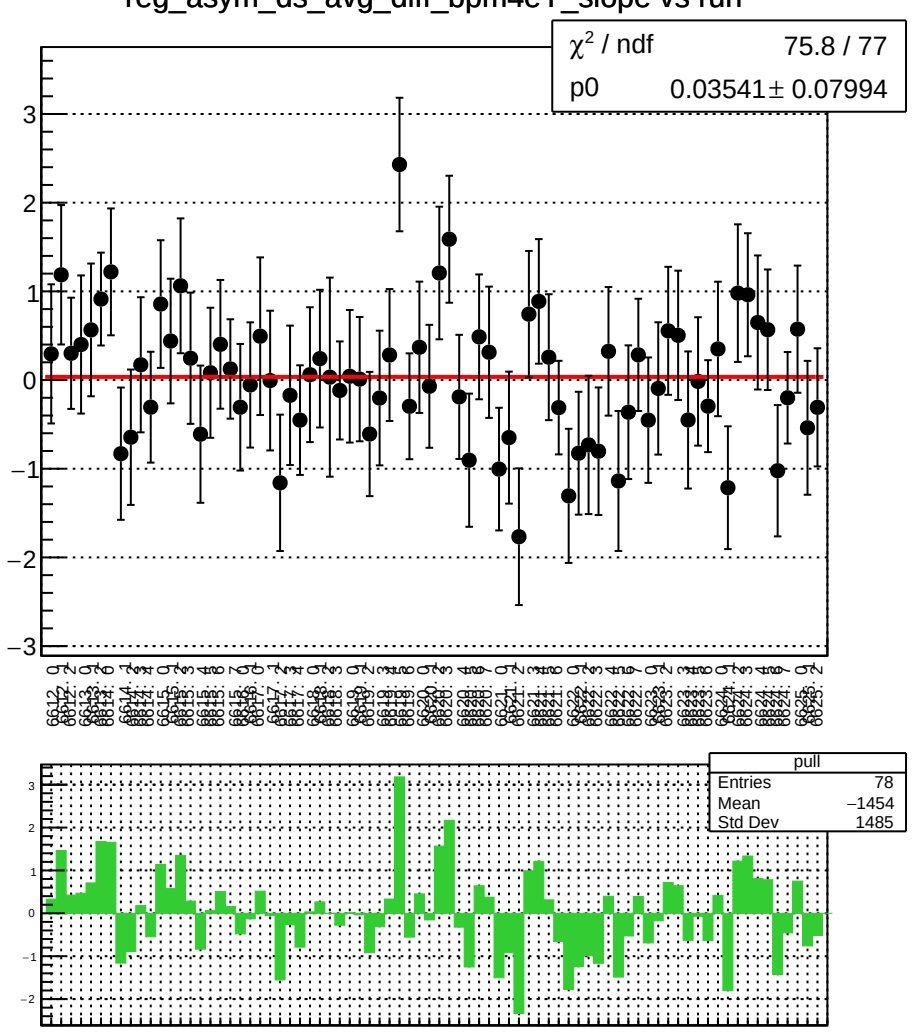

pull1D
Entries 78
Mean −0.002192
Std Dev 0.9646

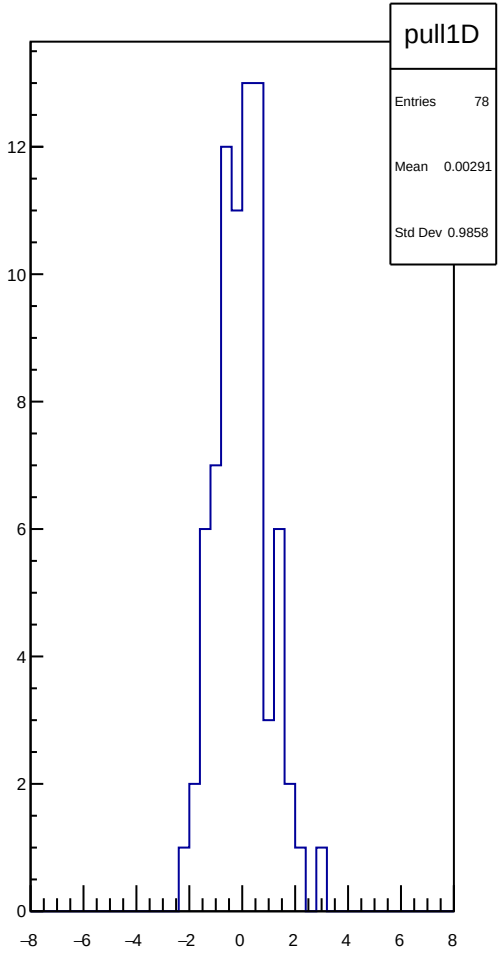

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.37 / 77
p0 −0.02534 ± 0.06689
pull
Entries 78
Mean −447
Std Dev 476.4

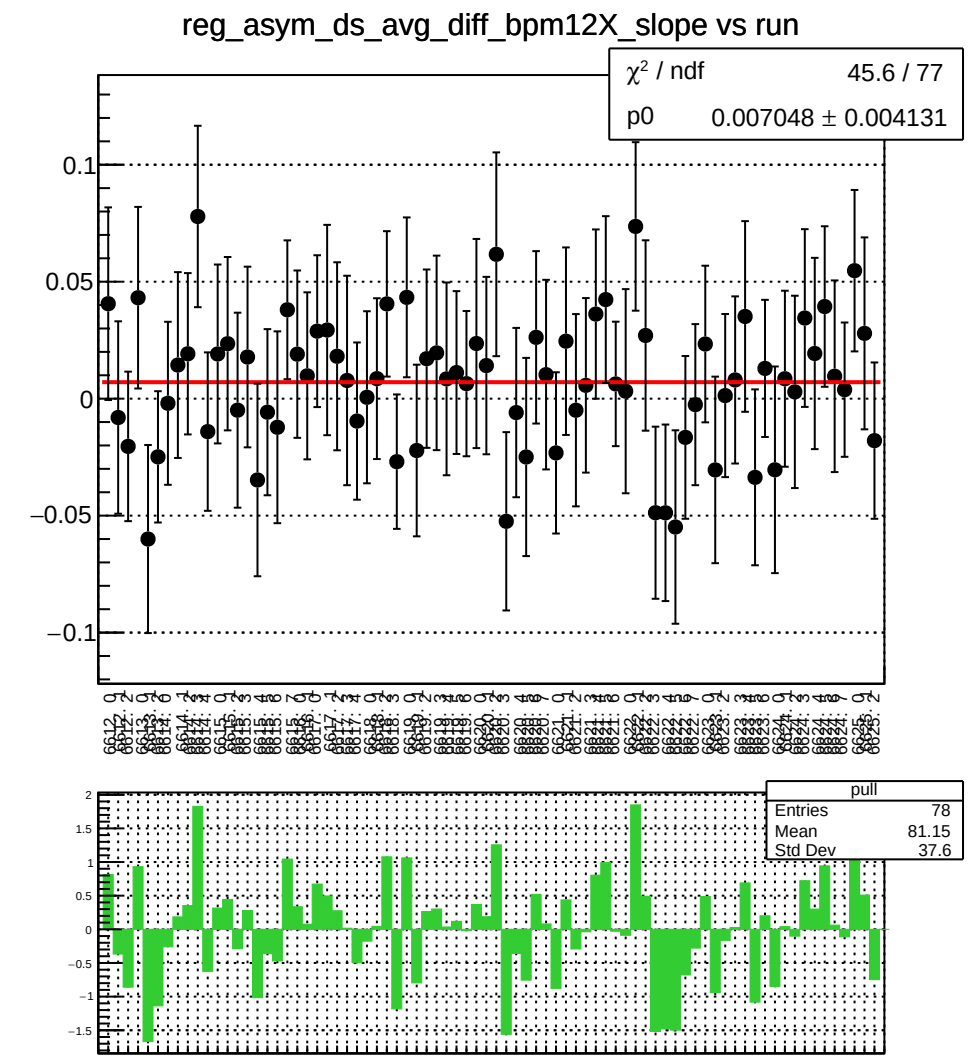

pull1D
Entries 78
Mean −0.006708
Std Dev 0.9632

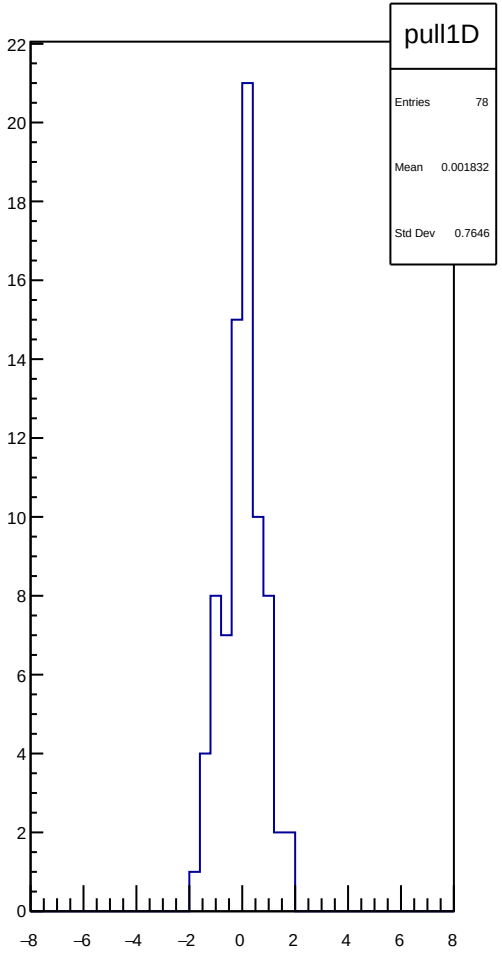

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 73.01 / 77
p0 −0.02932 ± 0.1029
pull
Entries 78
Mean −1523
Std Dev 1535

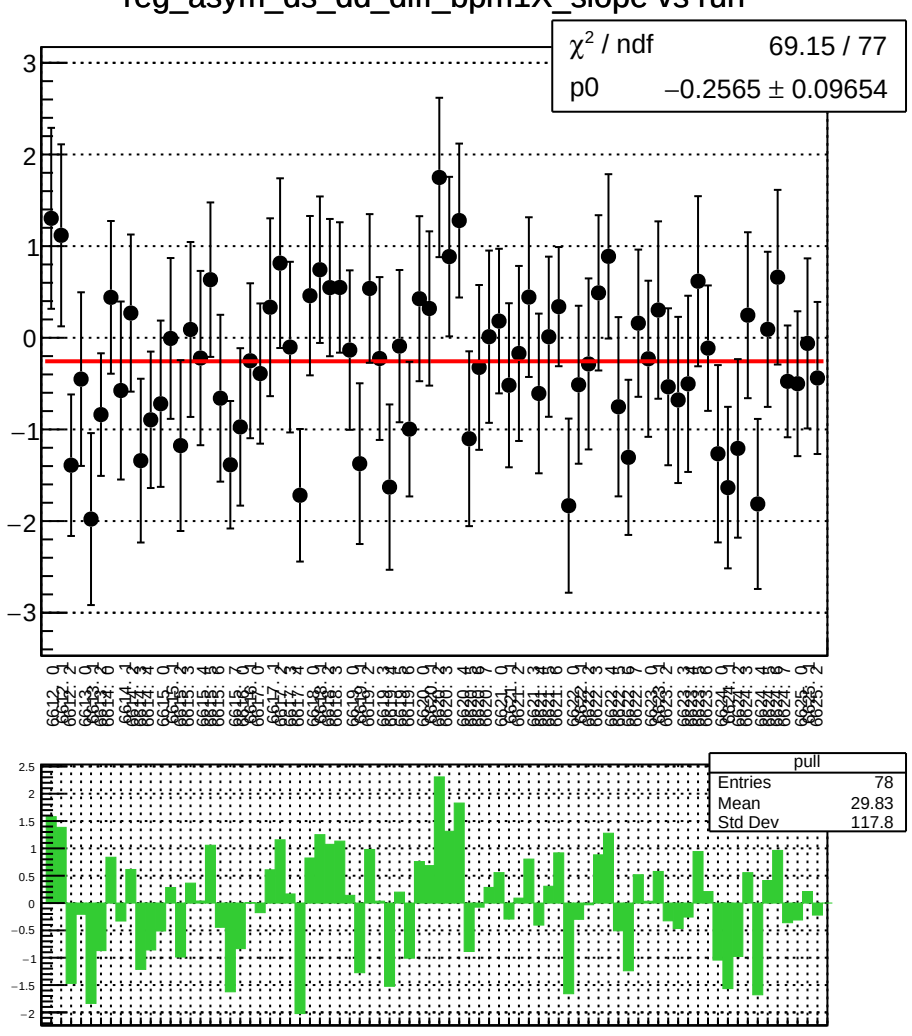

pull1D
Entries 78
Mean 0.0004296
Std Dev 0.9675

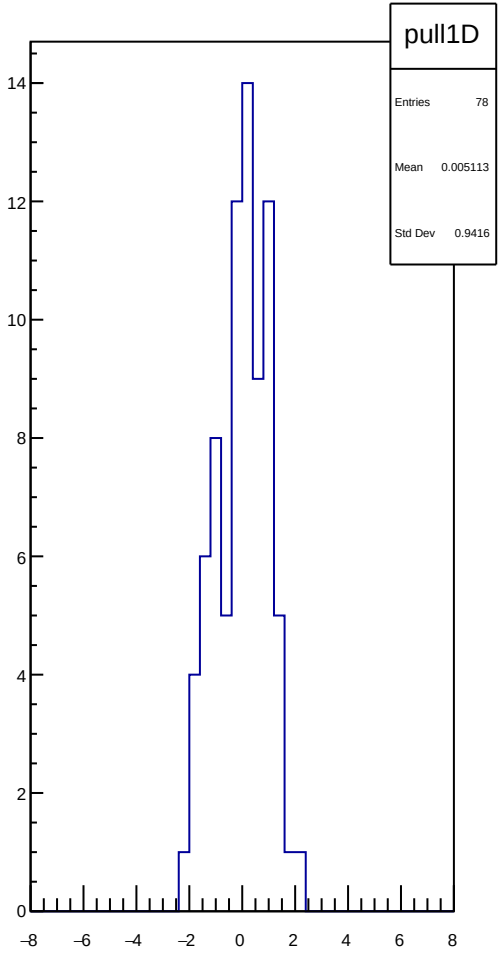

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.8 / 77
p0 0.03541 ± 0.07994
pull
Entries 78
Mean −1454
Std Dev 1485

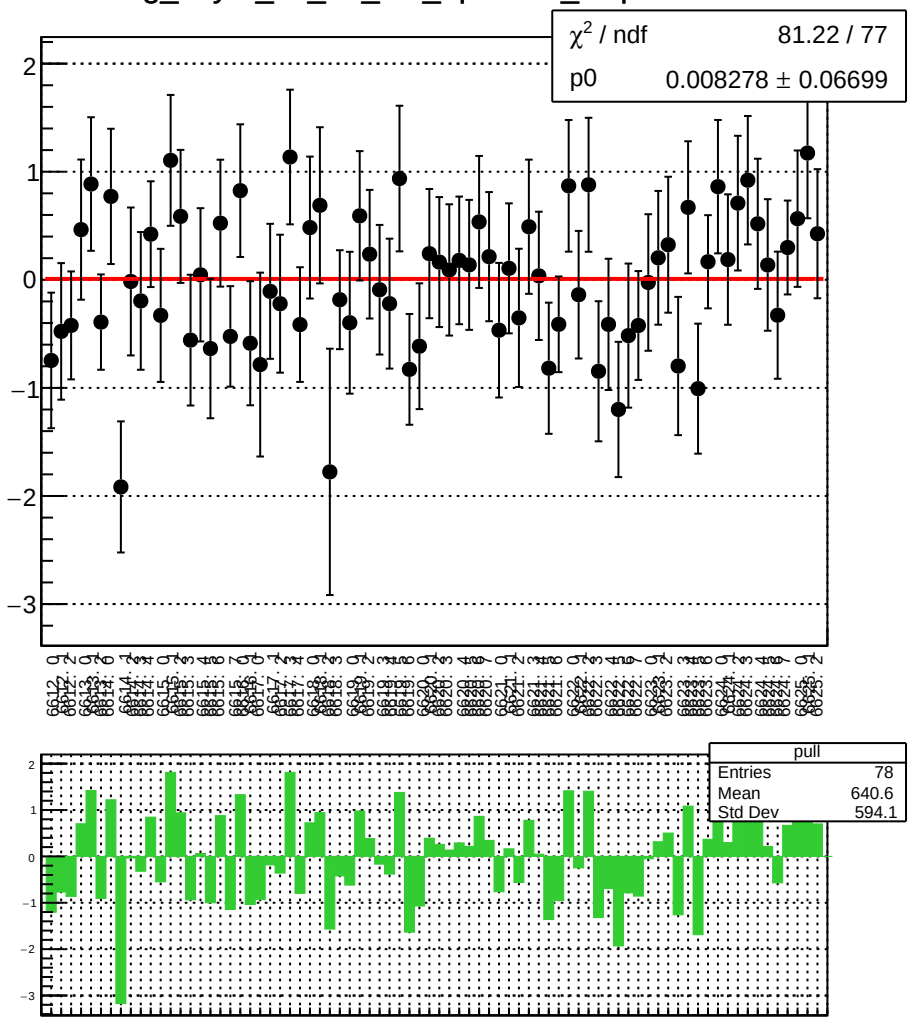

pull1D
Entries 78
Mean 0.00291
Std Dev 0.9858

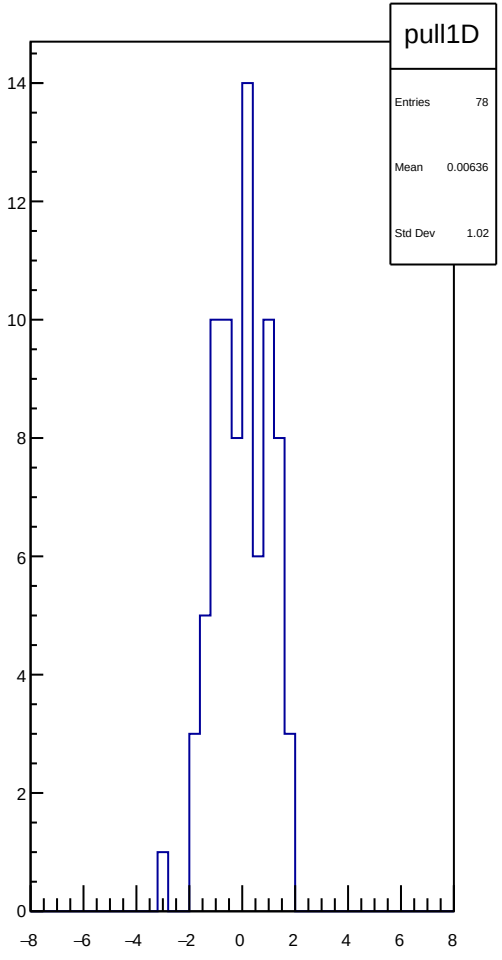

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 45.6 / 77
p0 0.007048 ± 0.004131
pull
Entries 78
Mean 81.15
Std Dev 37.6

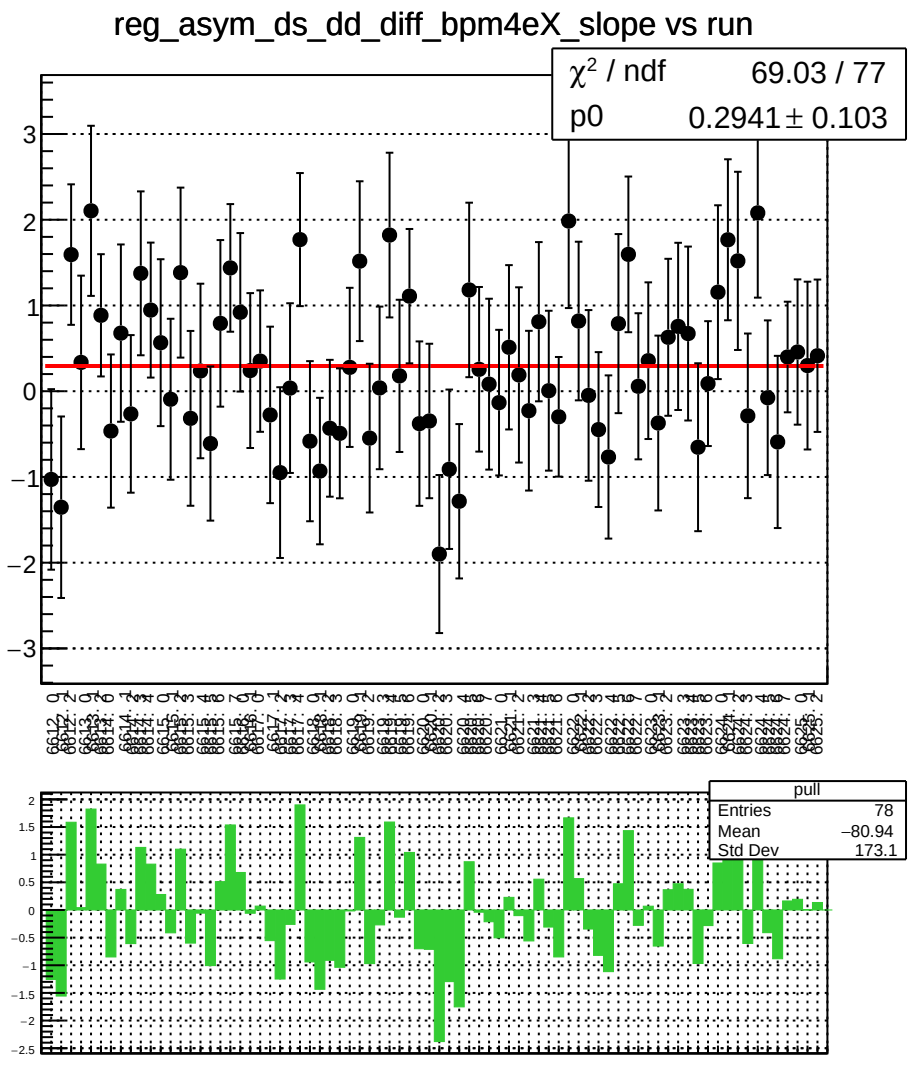

pull1D
Entries 78
Mean 0.001832
Std Dev 0.7646

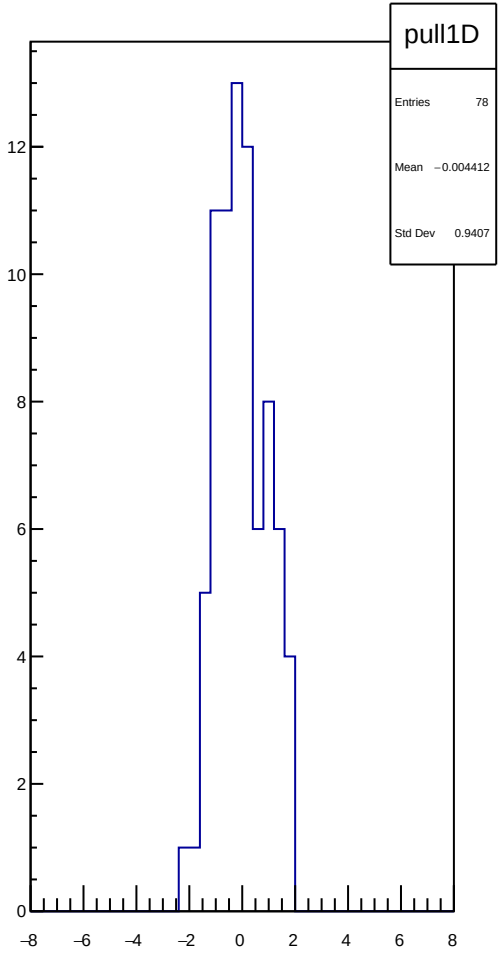

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 69.15 / 77
p0 −0.2565 ± 0.09654
pull
Entries 78
Mean 29.83
Std Dev 117.8

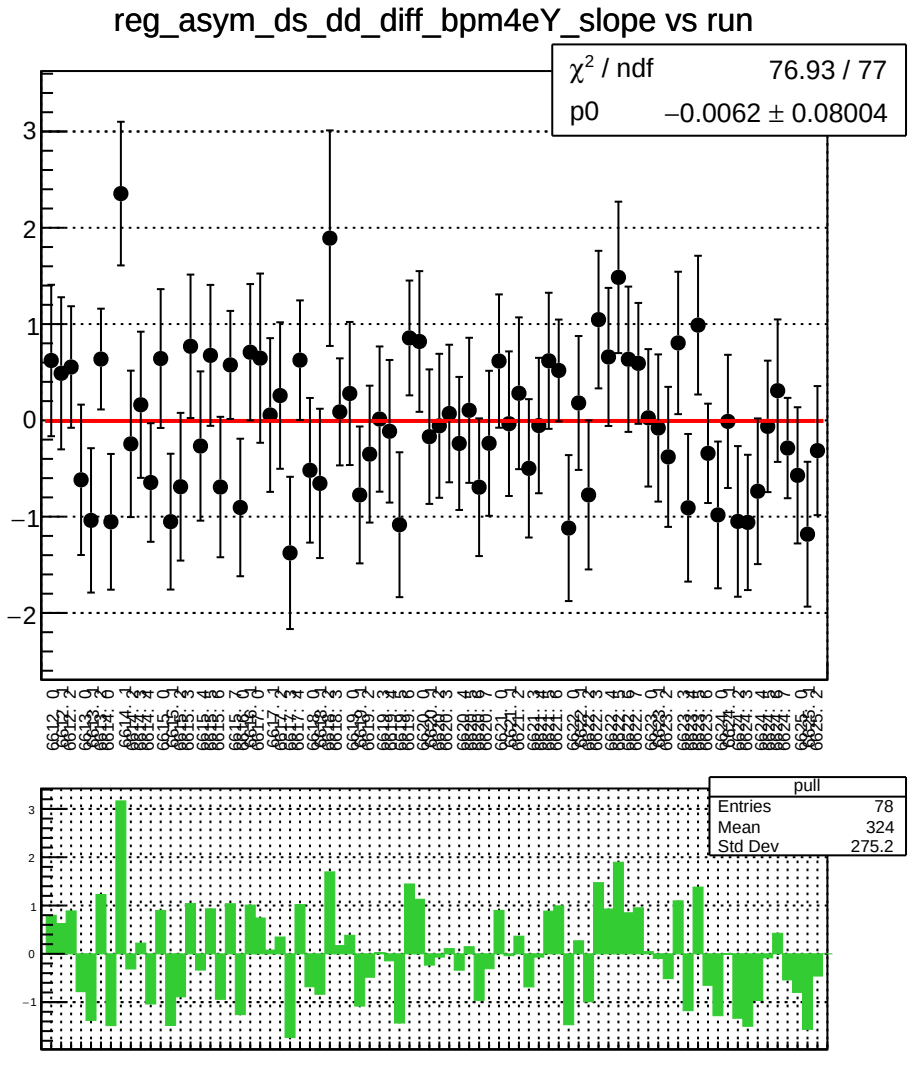

pull1D
Entries 78
Mean 0.005113
Std Dev 0.9416

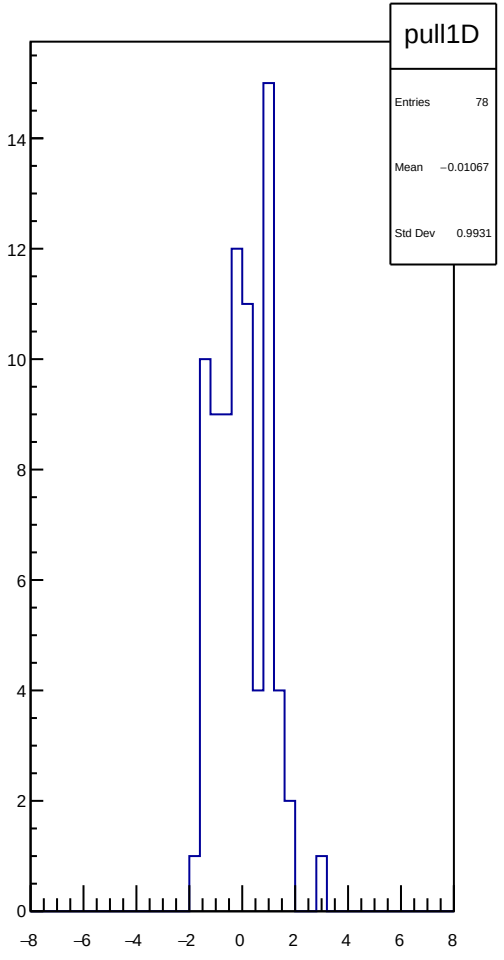

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.22 / 77
p0 0.008278 ± 0.06699
pull
Entries 78
Mean 640.6
Std Dev 594.1

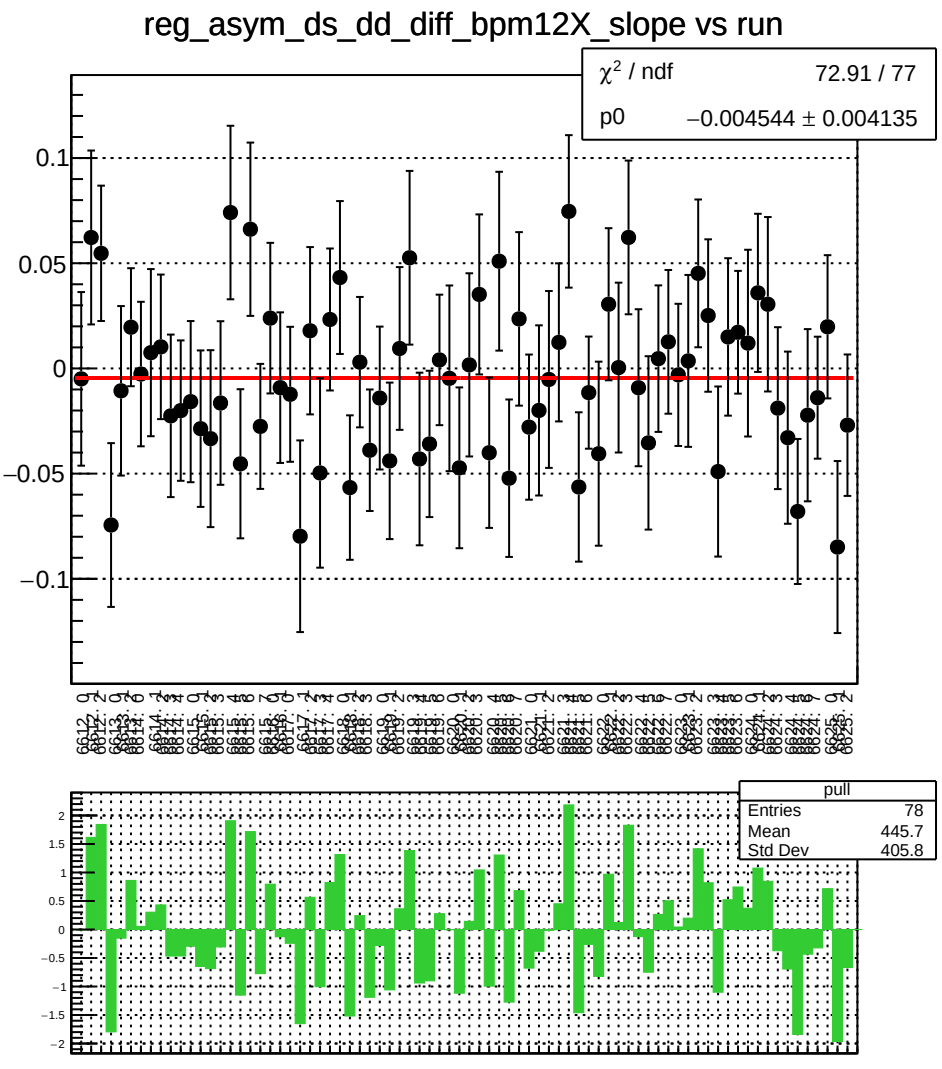

pull1D
Entries 78
Mean 0.00636
Std Dev 1.02

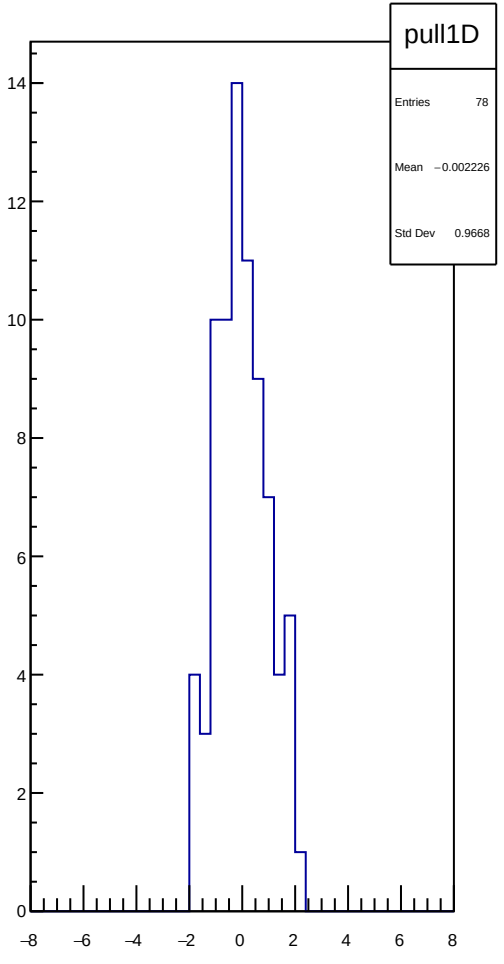

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.03 / 77
p0 0.2941 ± 0.103
pull
Entries 78
Mean −80.94
Std Dev 173.1

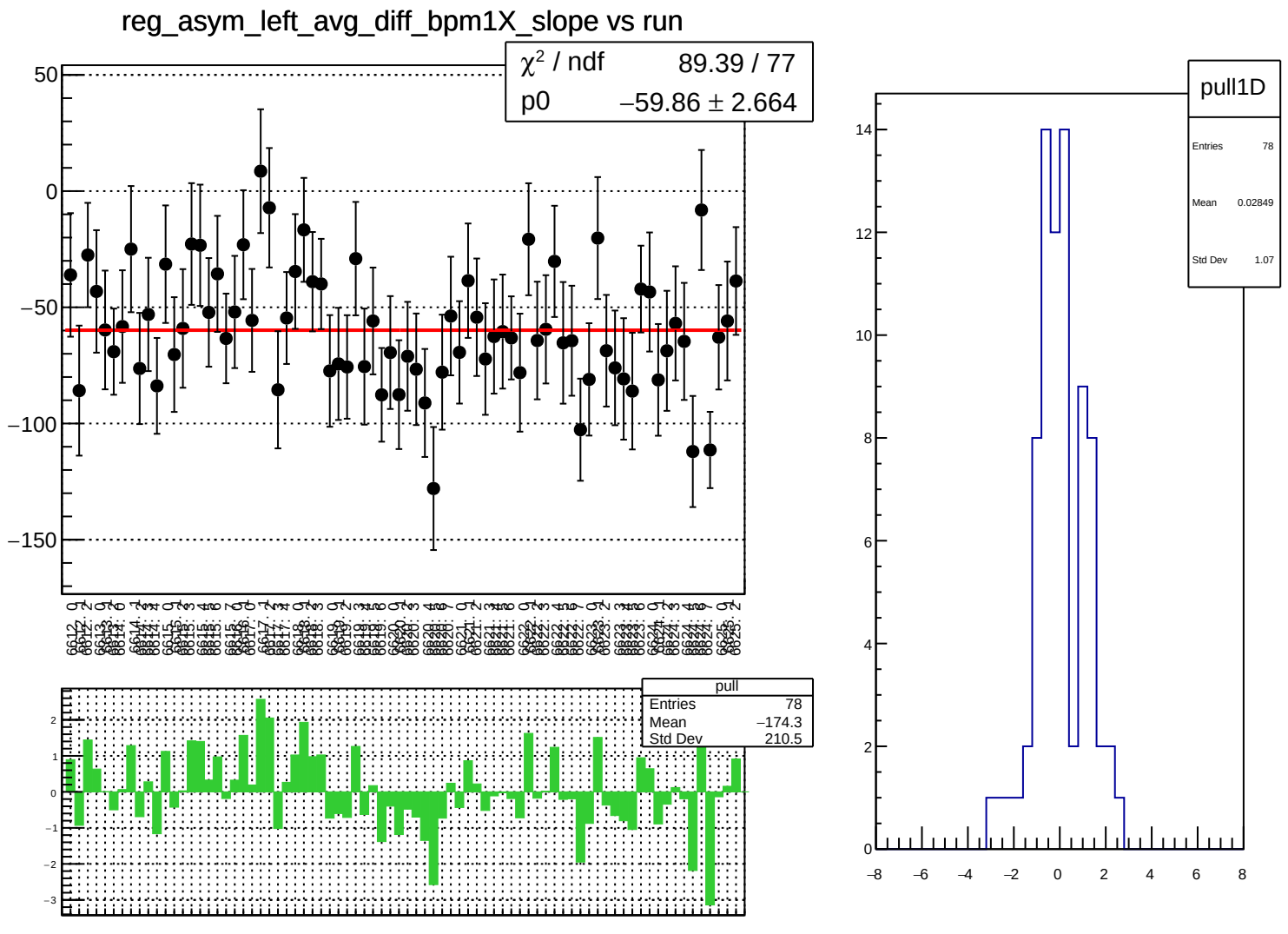

pull1D
Entries 78
Mean −0.004412
Std Dev 0.9407

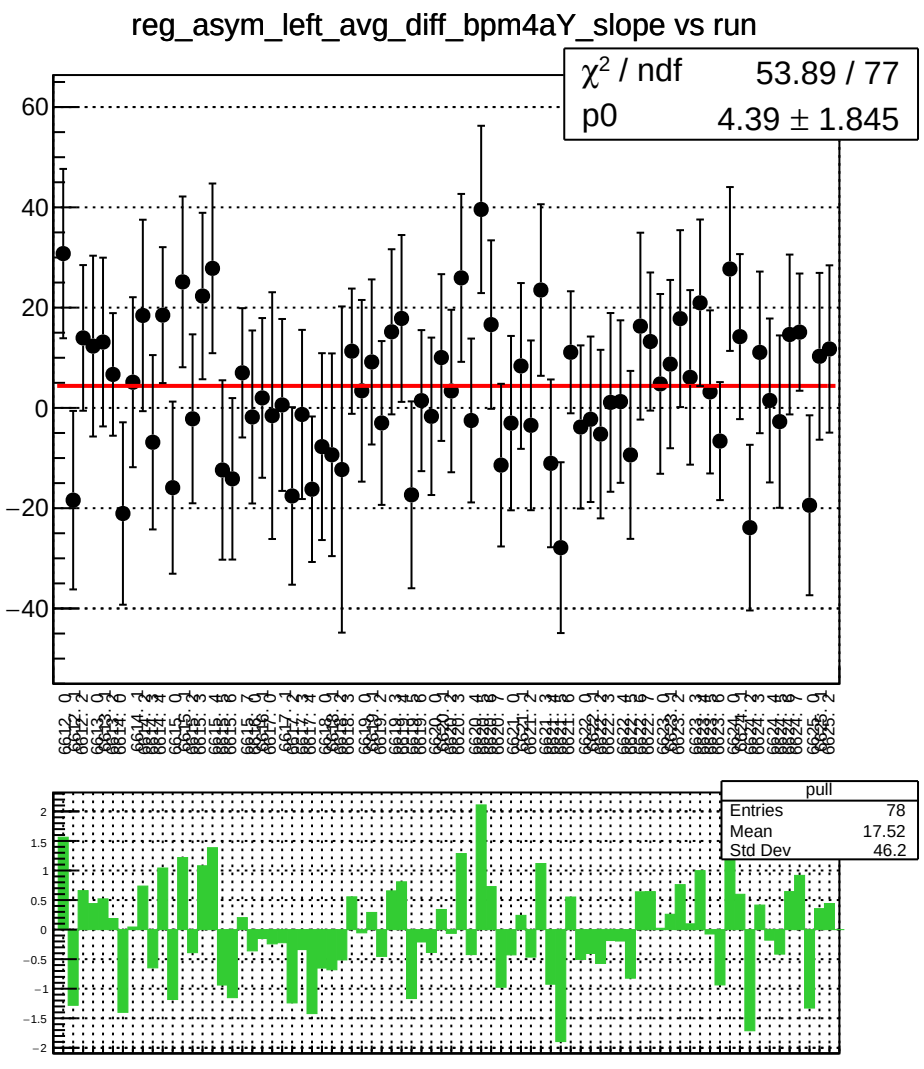

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.93 / 77
p0 −0.0062 ± 0.08004
pull
Entries 78
Mean 324
Std Dev 275.2

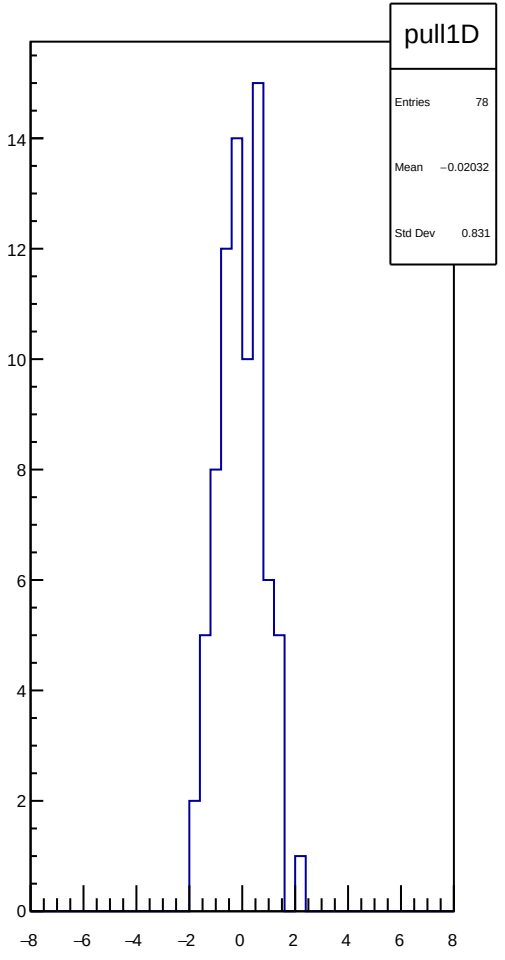

pull1D
Entries 78
Mean −0.01067
Std Dev 0.9931

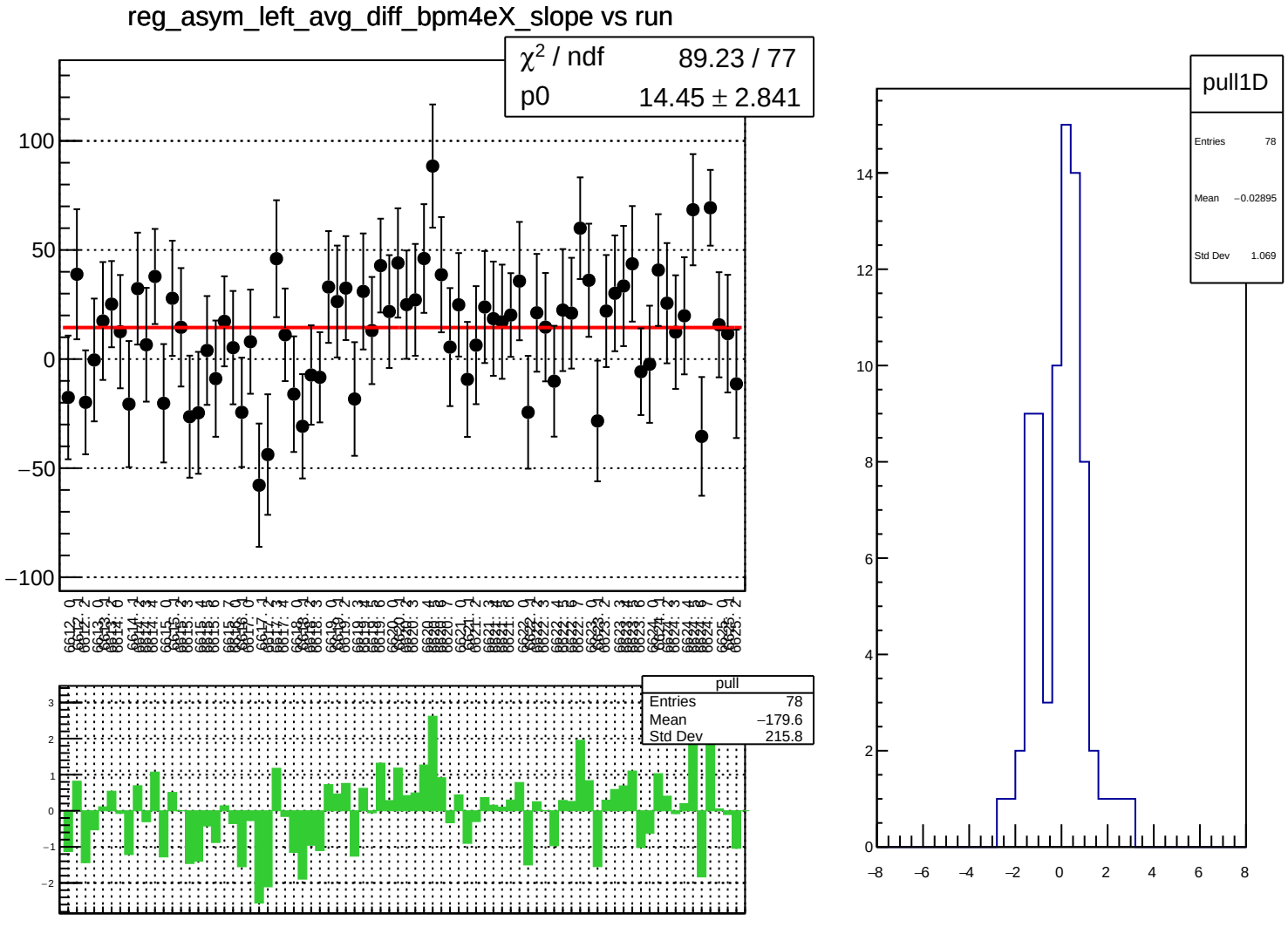

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 72.91 / 77
p0 −0.004544 ± 0.004135
0.1
0.05
0
−0.05
−0.1
pull
Entries 78
Mean 445.7
Std Dev 405.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

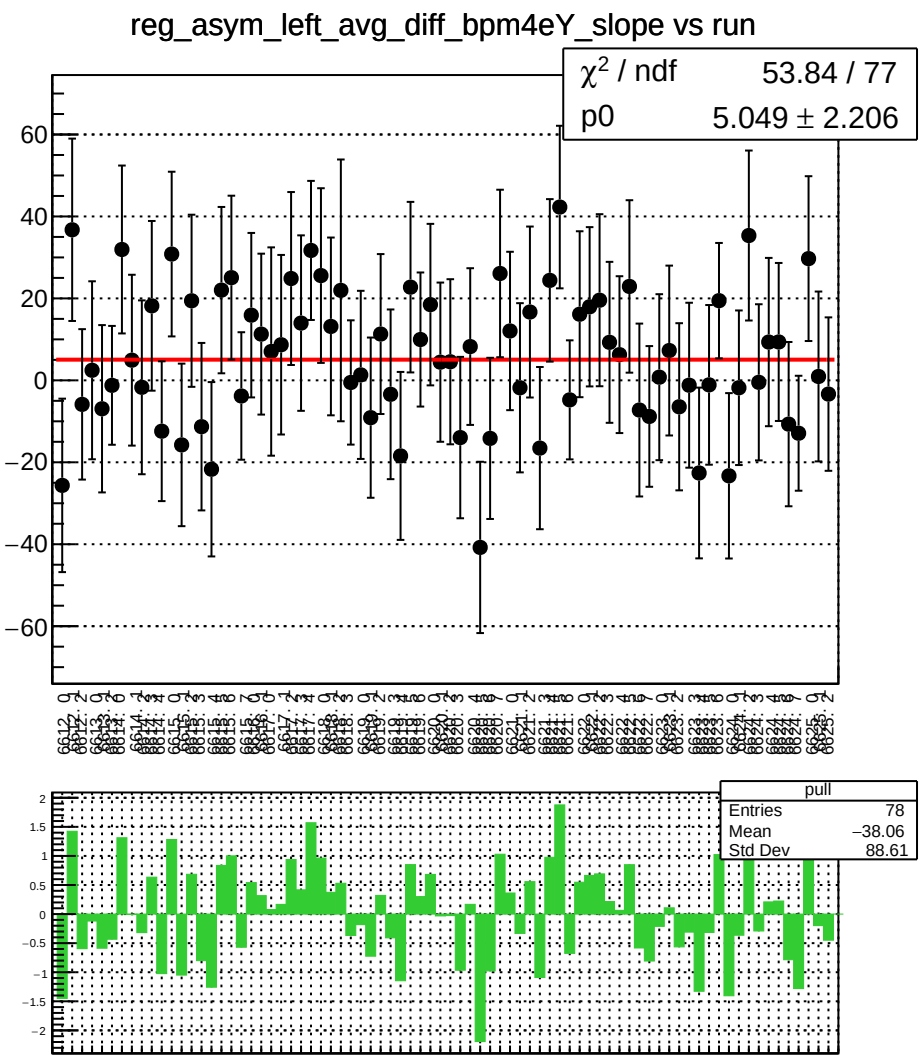

pull1D
Entries 78
Mean −0.002226
Std Dev 0.9668
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

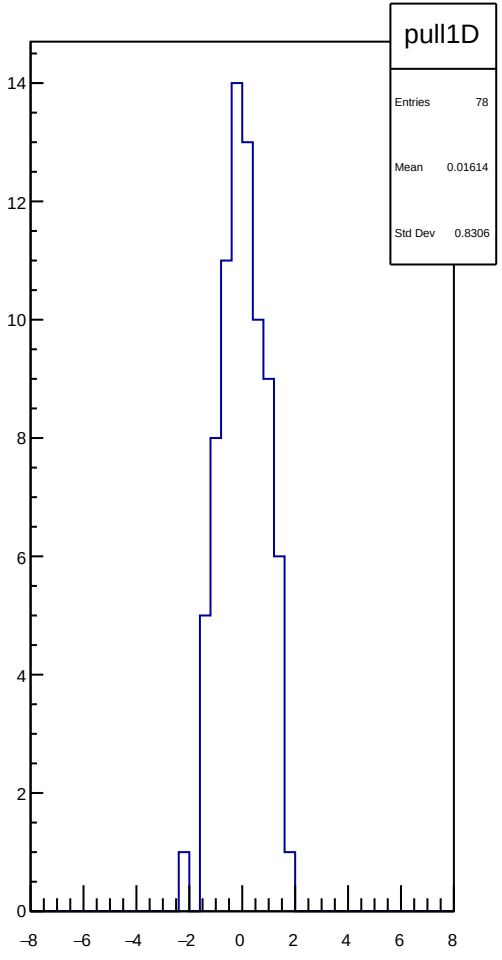

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 89.39 / 77
p0 −59.86 ± 2.664
pull
Entries 78
Mean −174.3
Std Dev 210.5
pull1D
Entries 78
Mean 0.02849
Std Dev 1.07

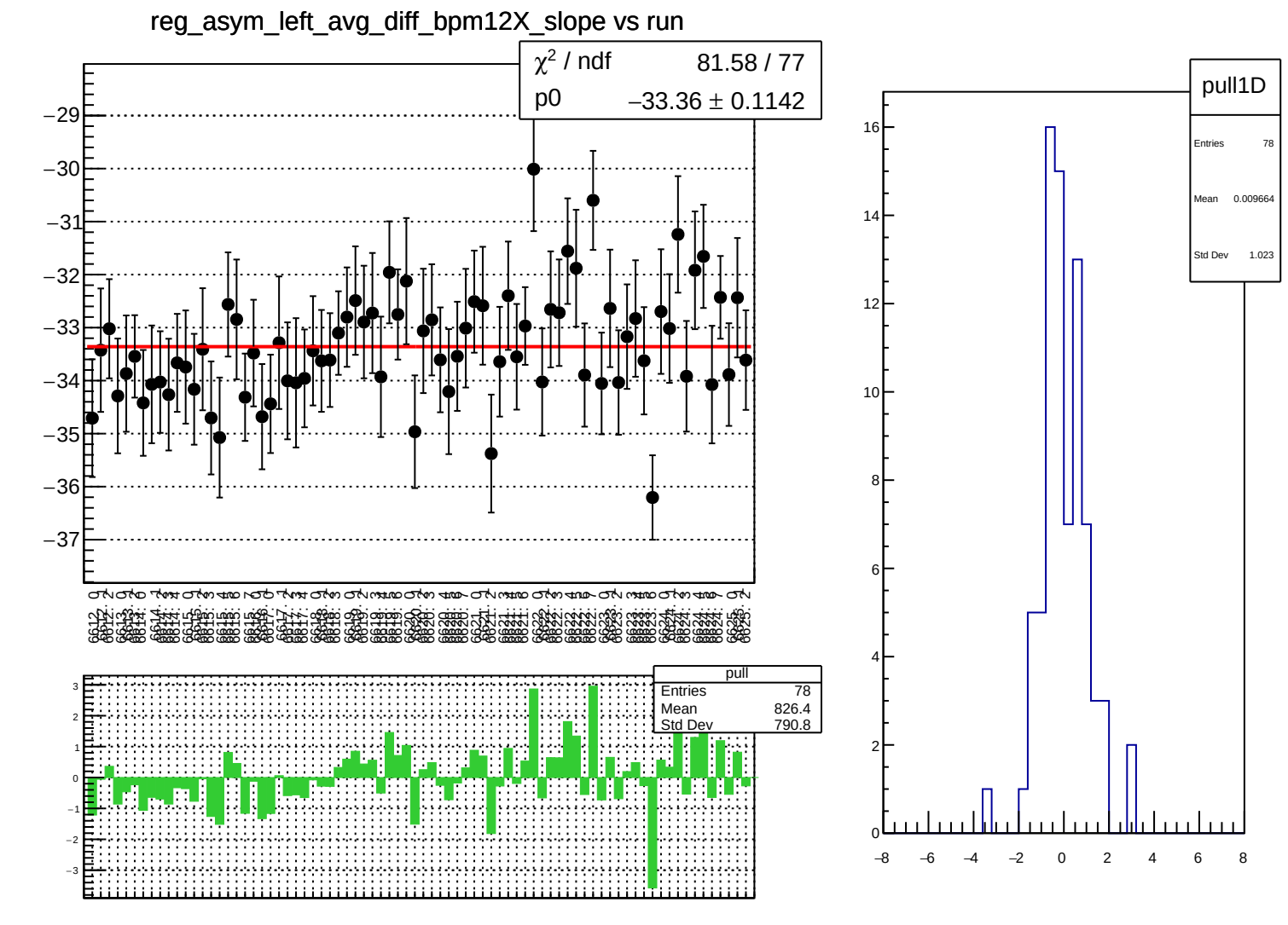

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.89 / 77
p0 4.39 ± 1.845
pull
Entries 78
Mean 17.52
Std Dev 46.2

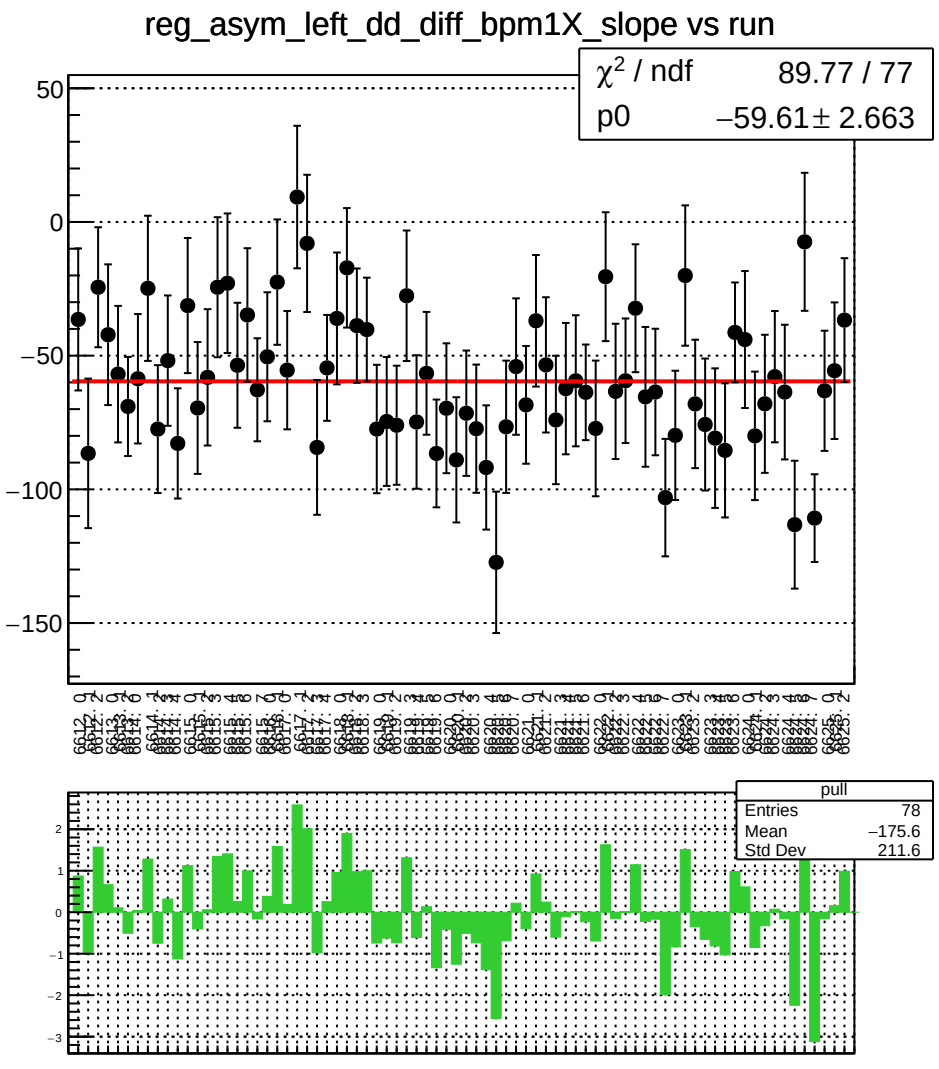

pull1D
Entries 78
Mean −0.02032
Std Dev 0.831

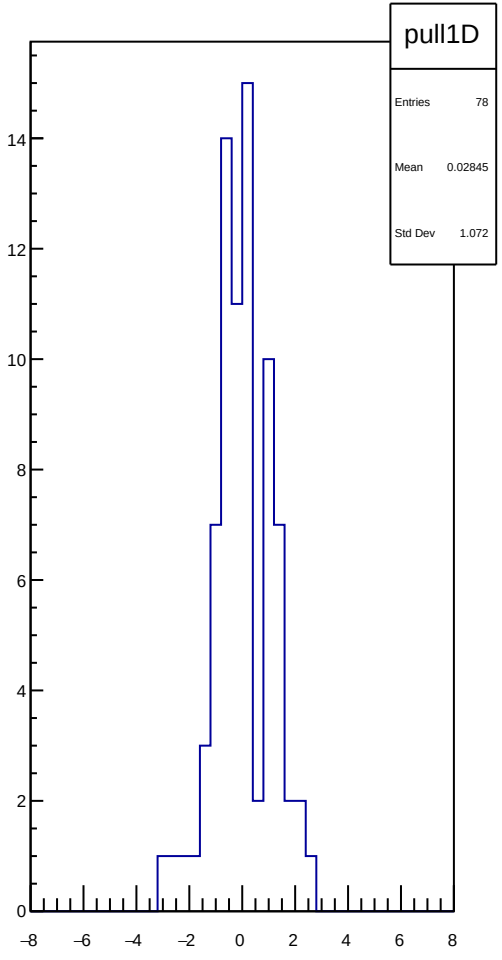

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.23 / 77
p0 14.45 ± 2.841
pull
Entries 78
Mean −179.6
Std Dev 215.8
pull1D
Entries 78
Mean −0.02895
Std Dev 1.069

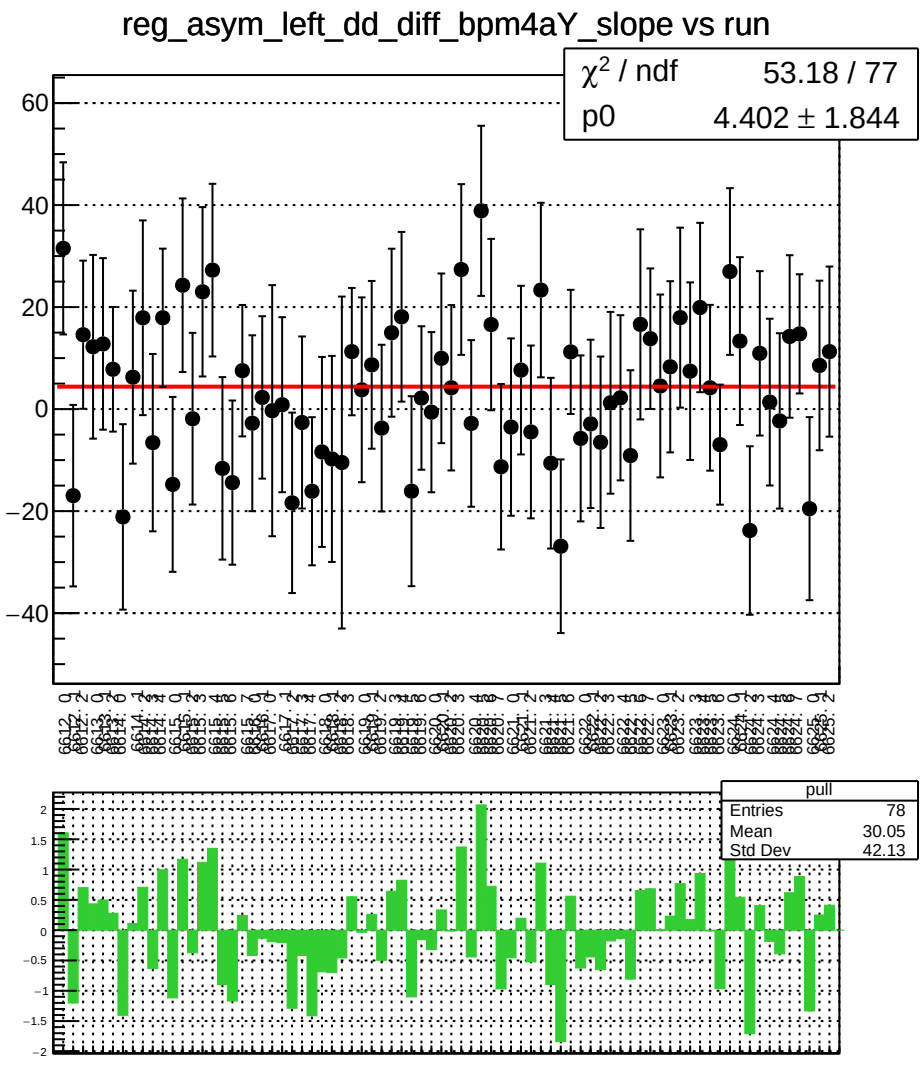

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.84 / 77
p0 5.049 ± 2.206
pull
Entries 78
Mean −38.06
Std Dev 88.61

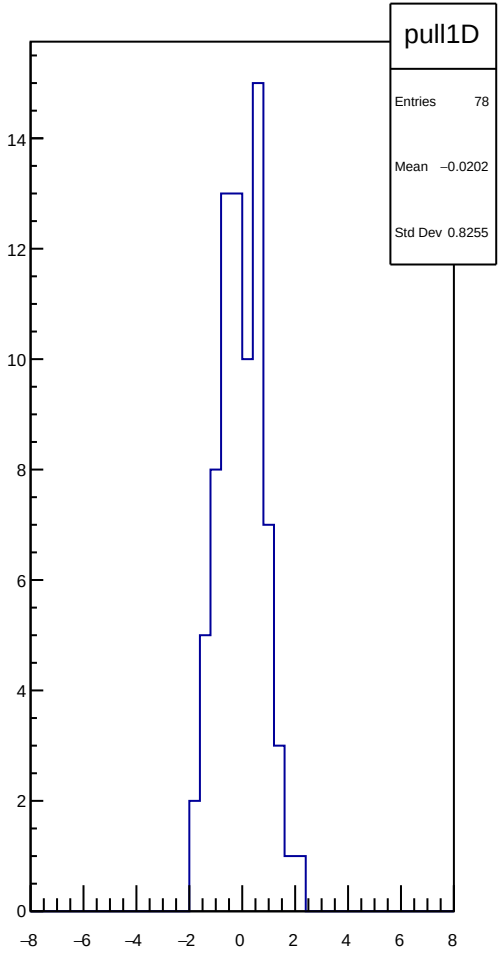

pull1D
Entries 78
Mean 0.01614
Std Dev 0.8306

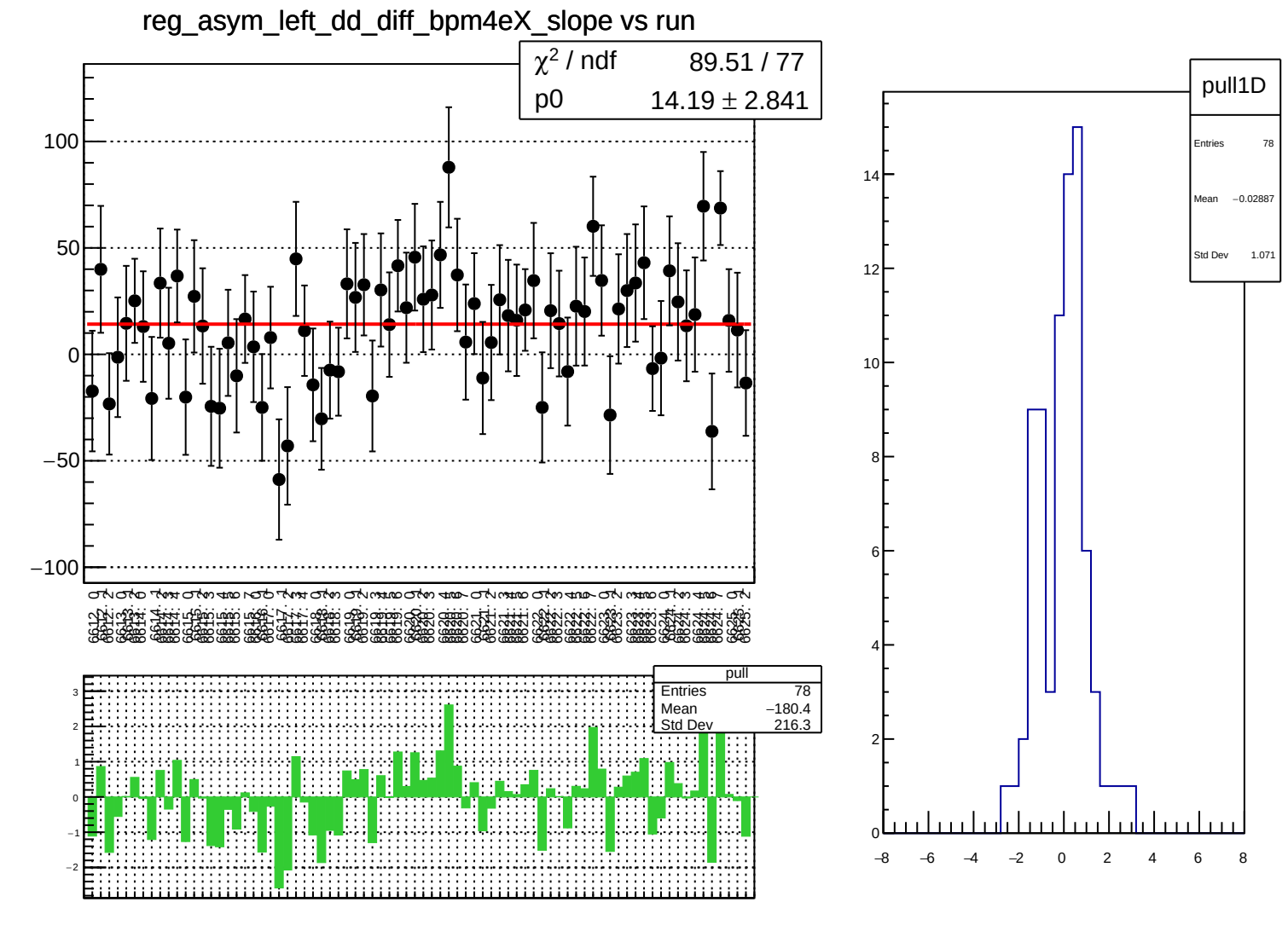

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 81.58 / 77
p0 −33.36 ± 0.1142
pull
Entries 78
Mean 826.4
Std Dev 790.8
pull1D
Entries 78
Mean 0.009664
Std Dev 1.023

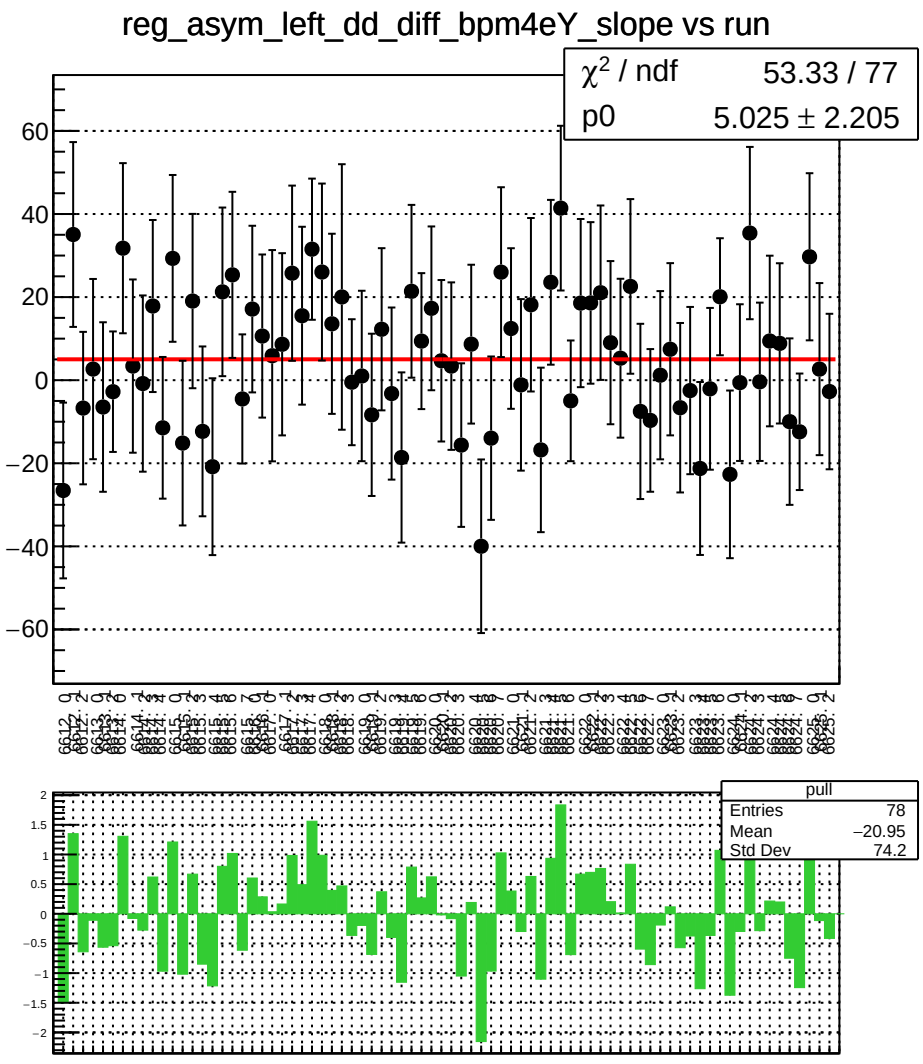

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 89.77 / 77
p0 −59.61 ± 2.663
pull
Entries 78
Mean −175.6
Std Dev 211.6

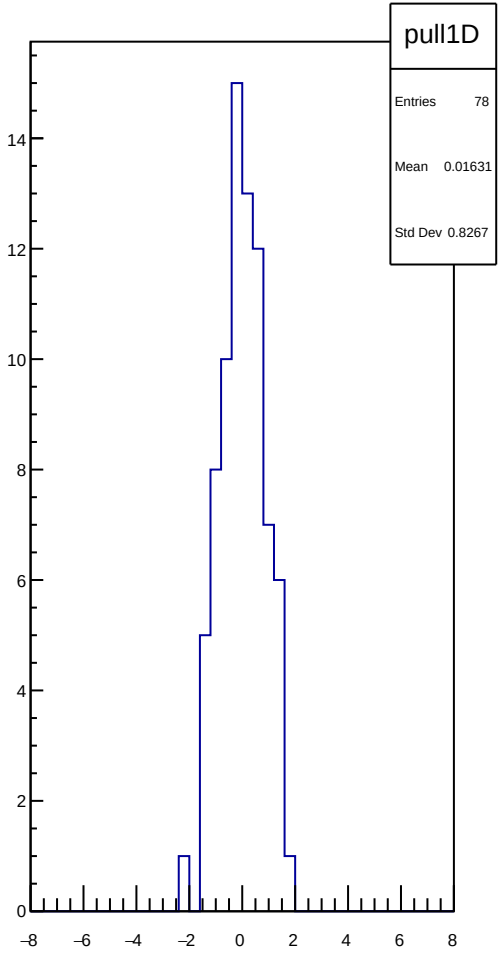

pull1D
Entries 78
Mean 0.02845
Std Dev 1.072

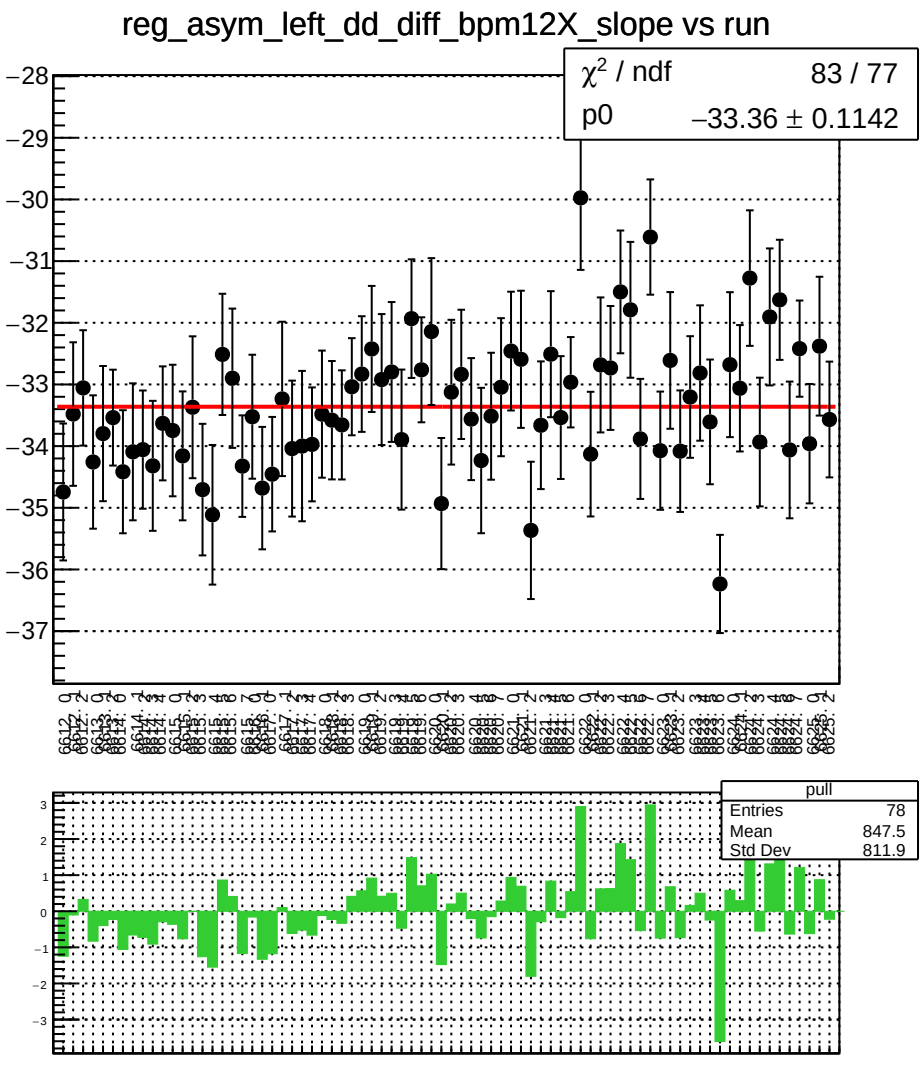

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.18 / 77
p0 4.402 ± 1.844
pull
Entries 78
Mean 30.05
Std Dev 42.13

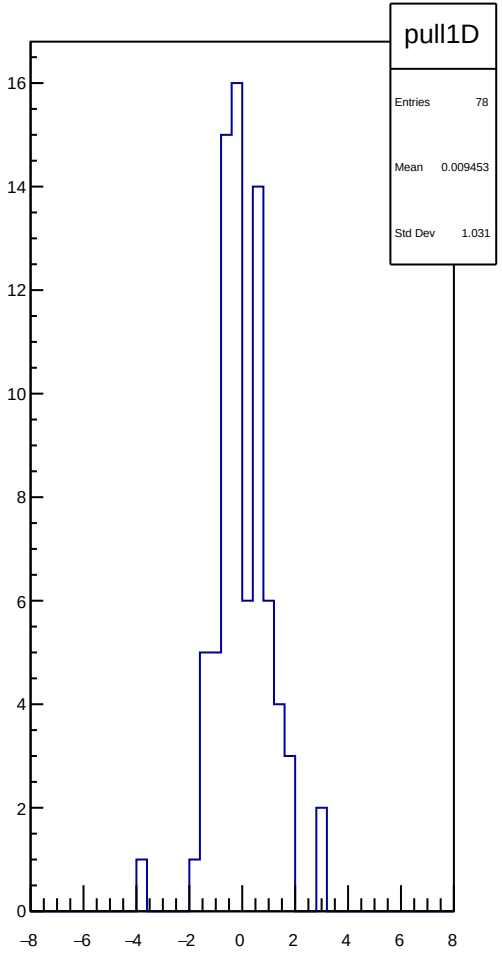

pull1D
Entries 78
Mean −0.0202
Std Dev 0.8255

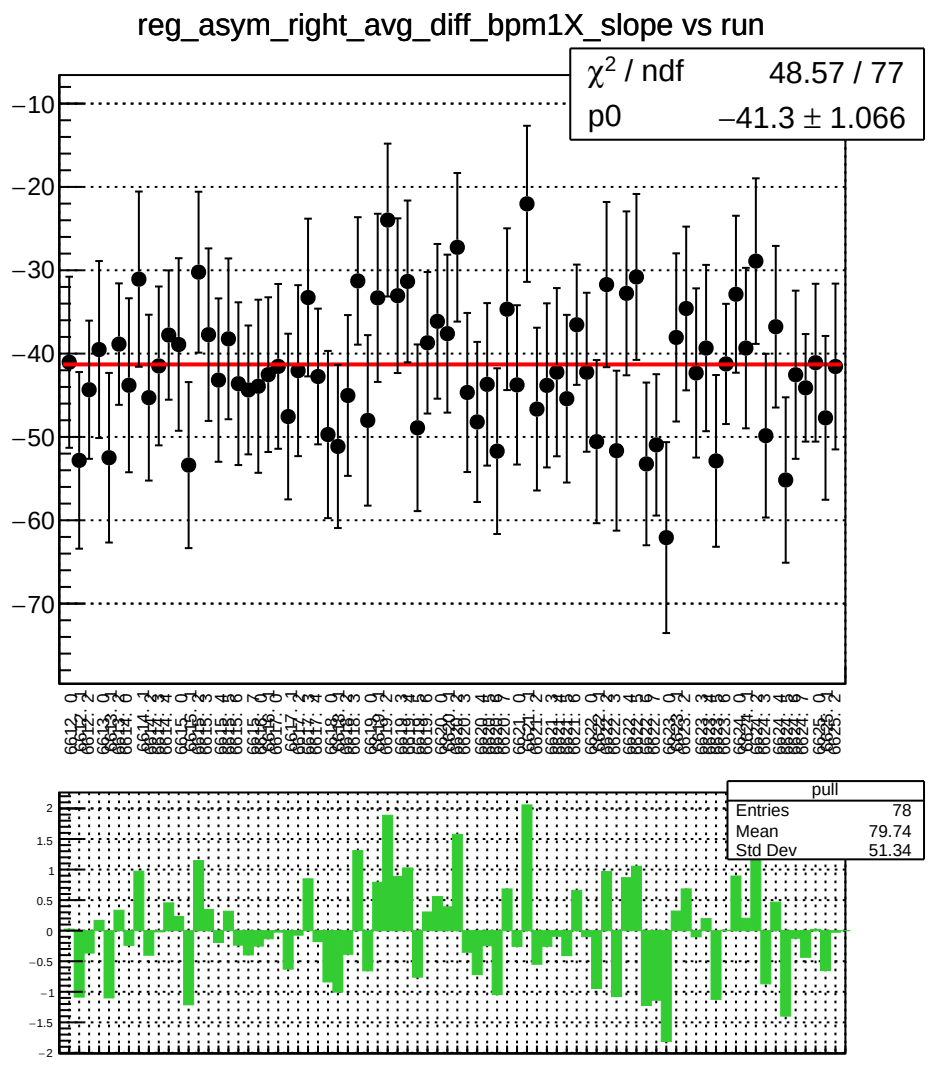

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.51 / 77
p0 14.19 ± 2.841
pull
Entries 78
Mean −180.4
Std Dev 216.3
pull1D
Entries 78
Mean −0.02887
Std Dev 1.071

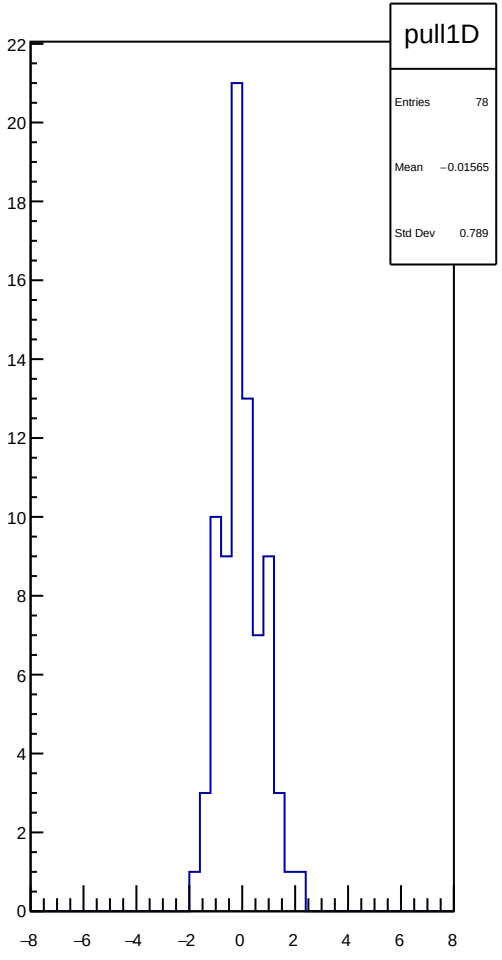

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.33 / 77
p0 5.025 ± 2.205
pull
Entries 78
Mean −20.95
Std Dev 74.2

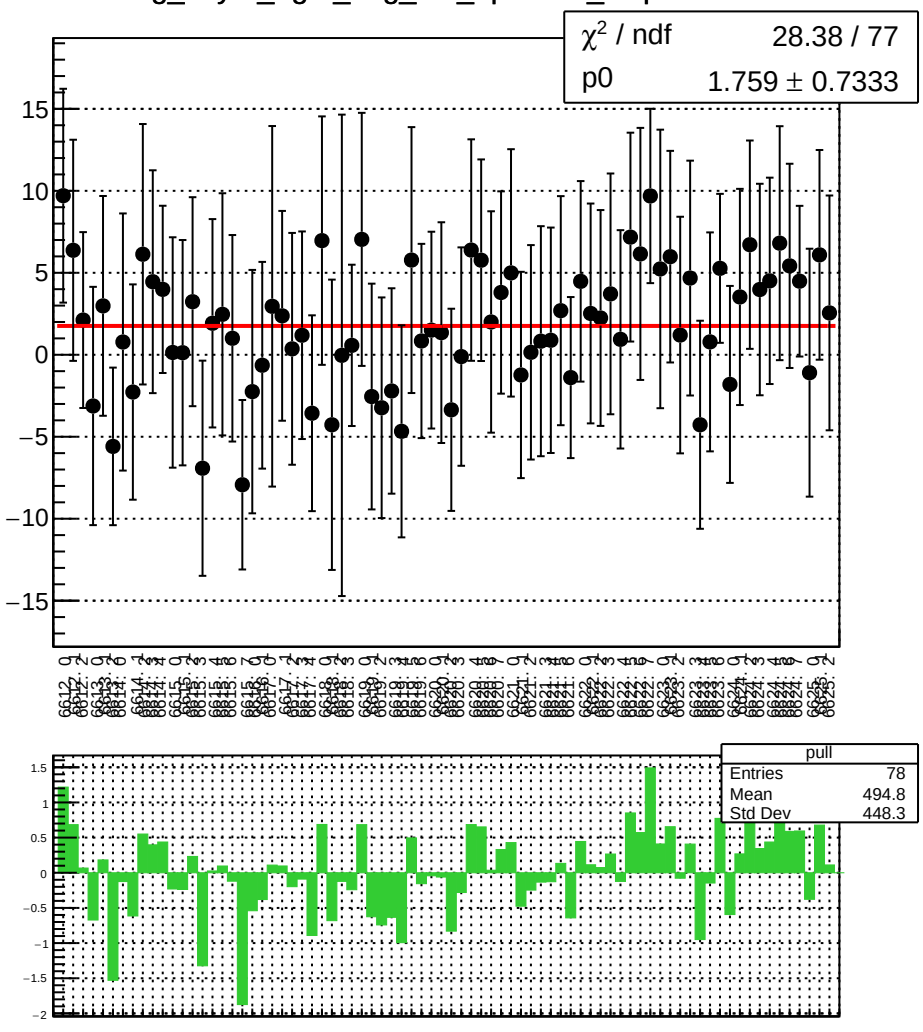

pull1D
Entries 78
Mean 0.01631
Std Dev 0.8267

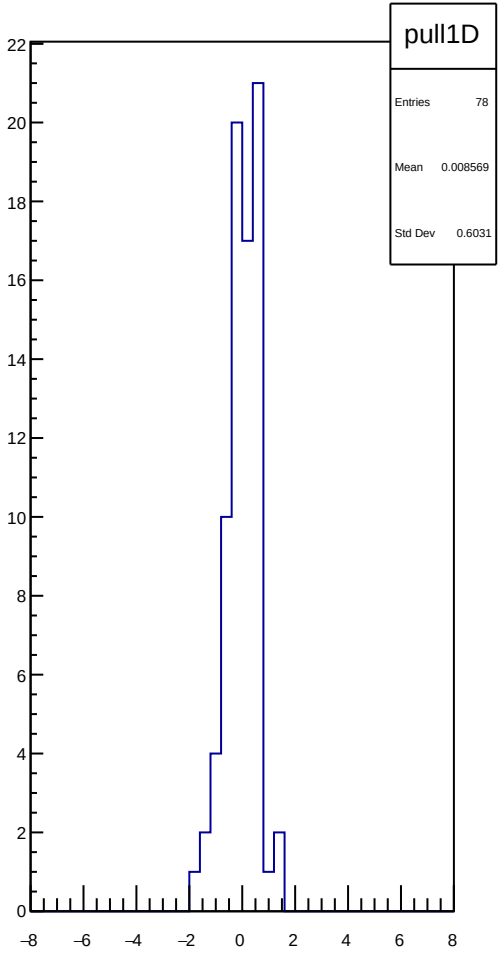

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 83 / 77
p0 −33.36 ± 0.1142
pull
Entries 78
Mean 847.5
Std Dev 811.9

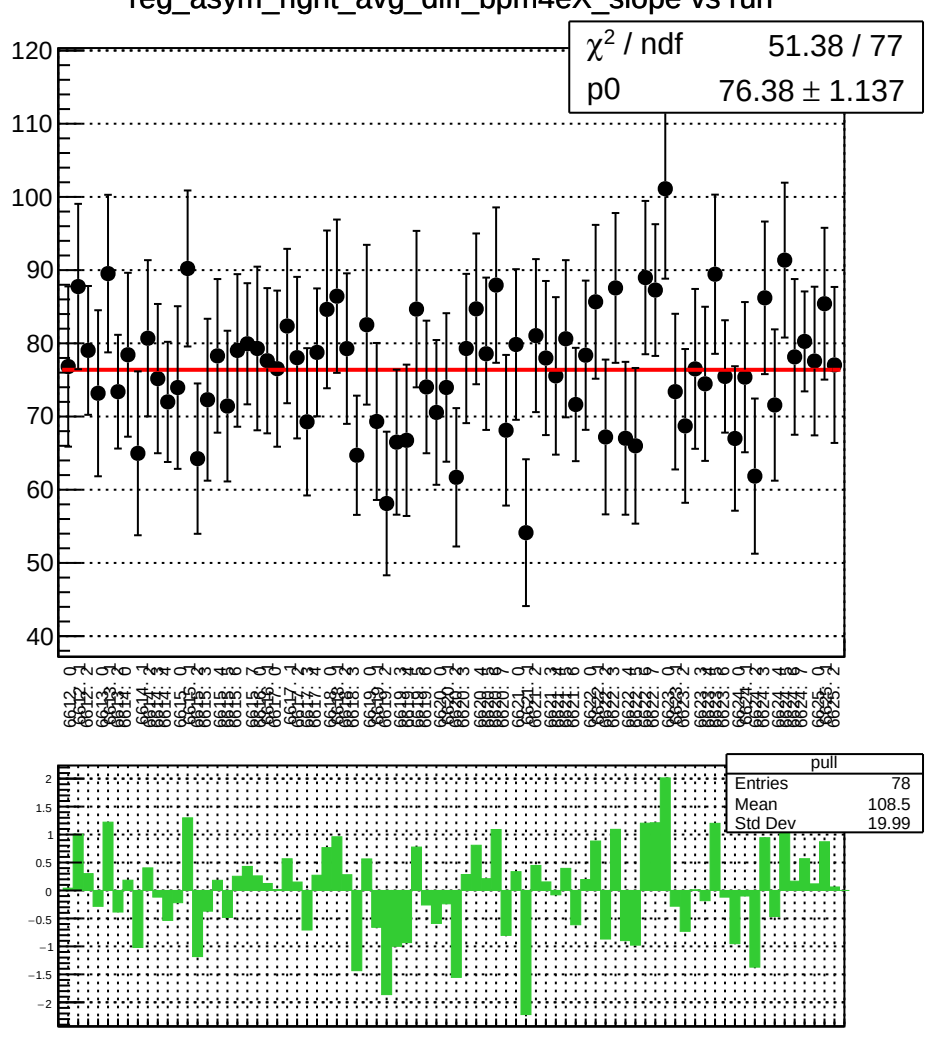

pull1D
Entries 78
Mean 0.009453
Std Dev 1.031

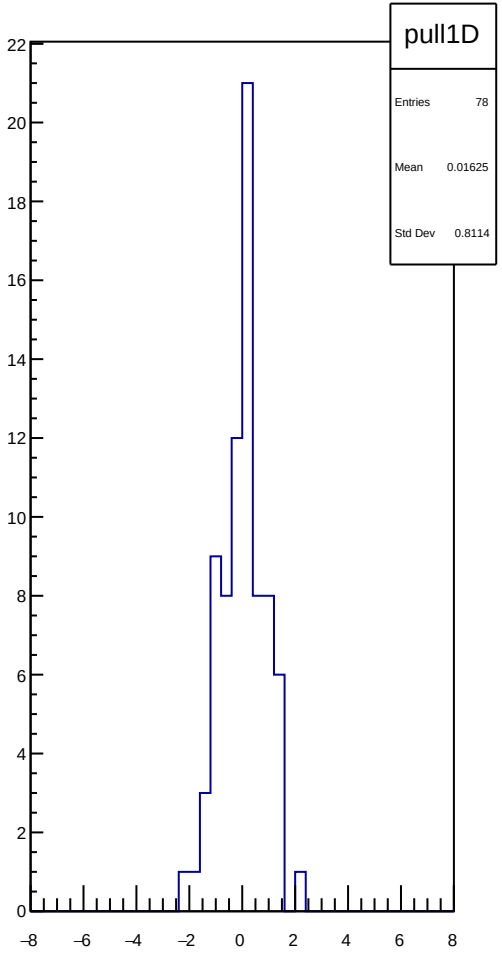

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 48.57 / 77
p0 −41.3 ± 1.066
pull
Entries 78
Mean 79.74
Std Dev 51.34

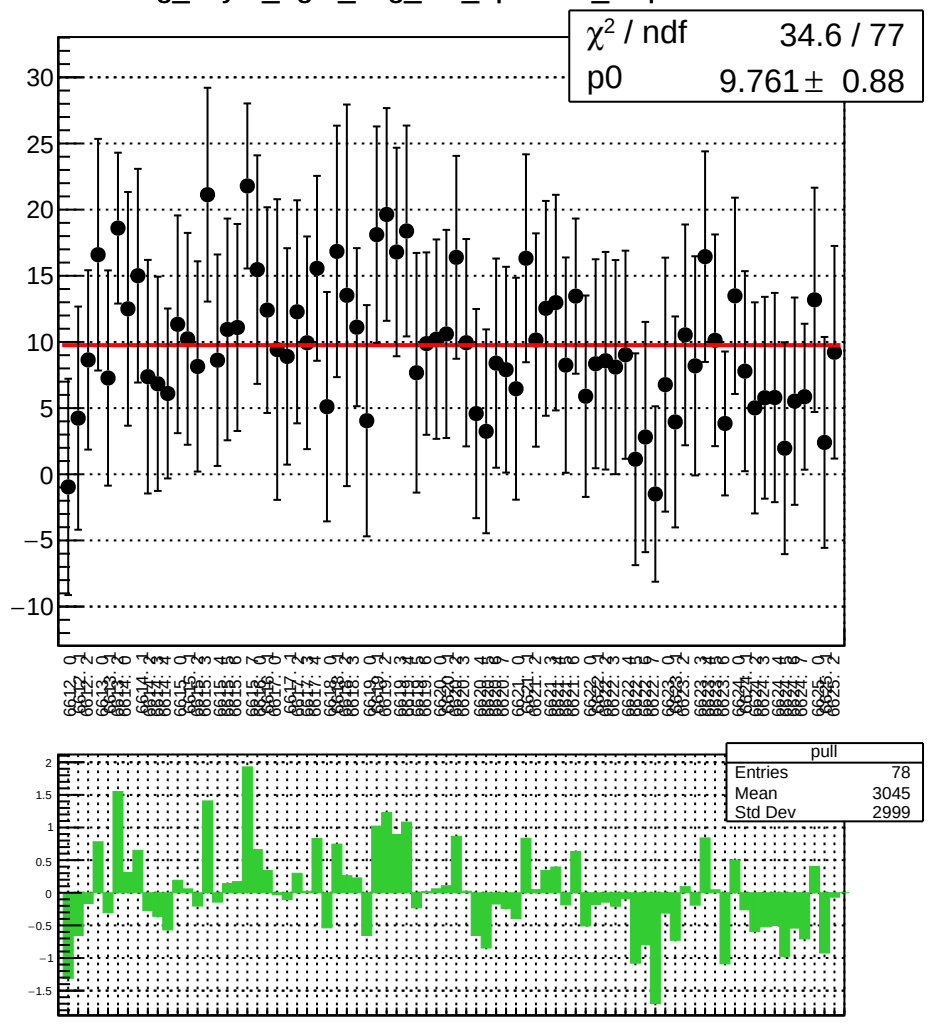

pull1D
Entries 78
Mean −0.01565
Std Dev 0.789

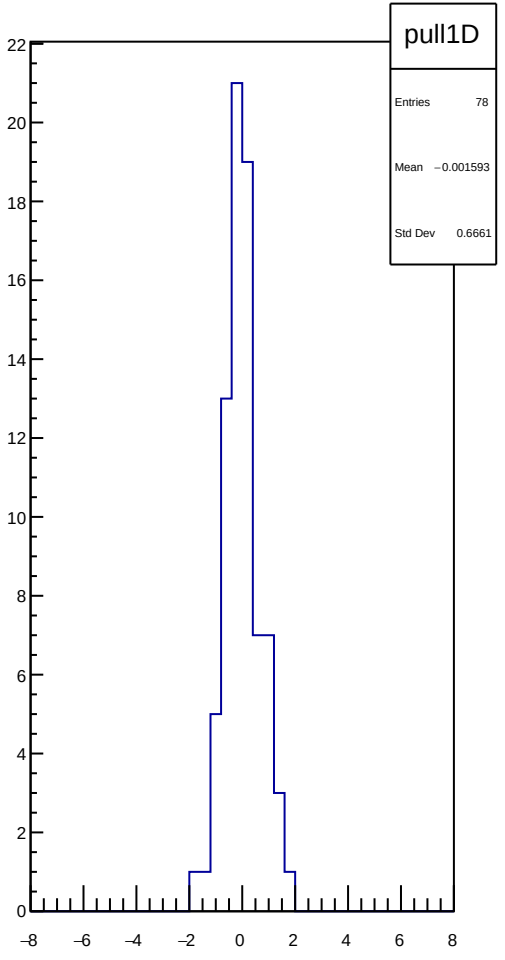

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.38 / 77
p0 1.759 ± 0.7333
pull
Entries 78
Mean 494.8
Std Dev 448.3

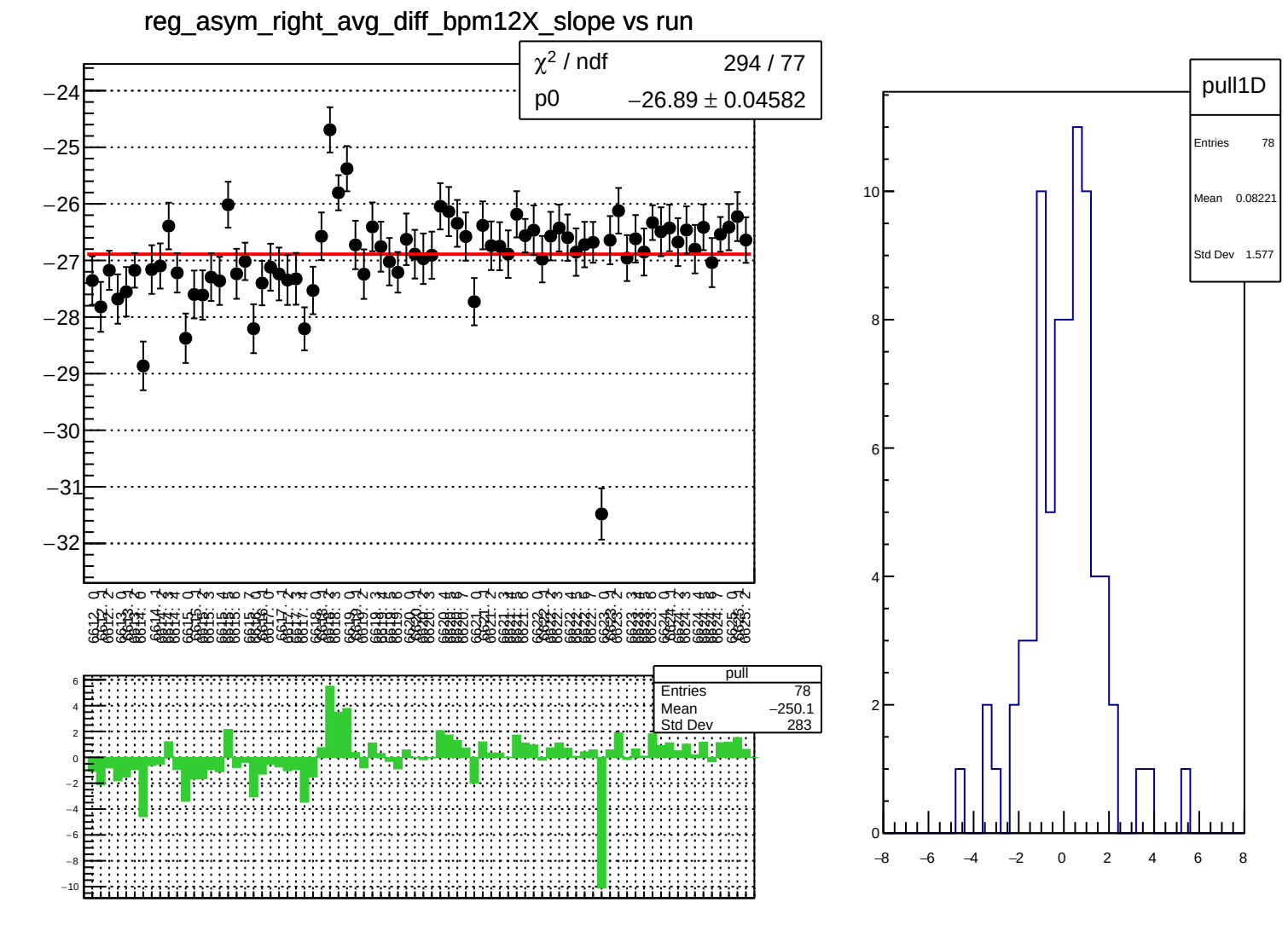

pull1D
Entries 78
Mean 0.008569
Std Dev 0.6031

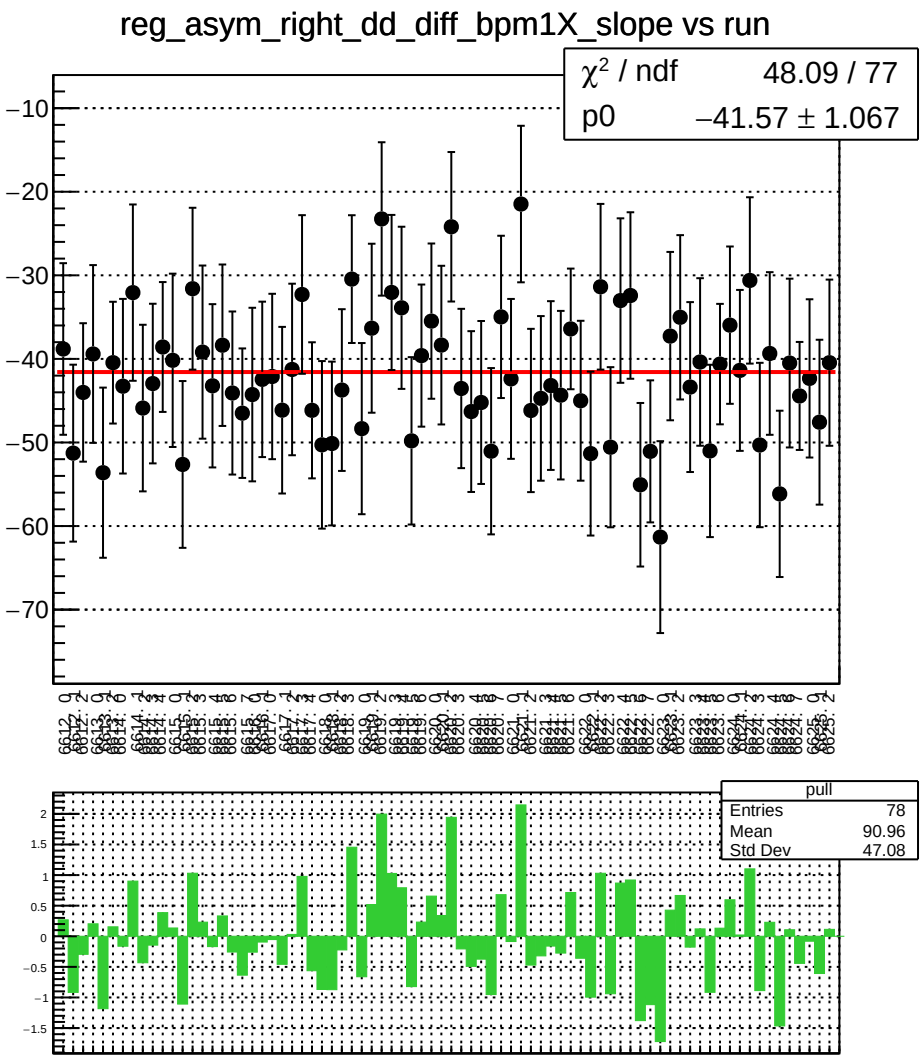

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.38 / 77
p0 76.38 ± 1.137
pull
Entries 78
Mean 108.5
Std Dev 19.99

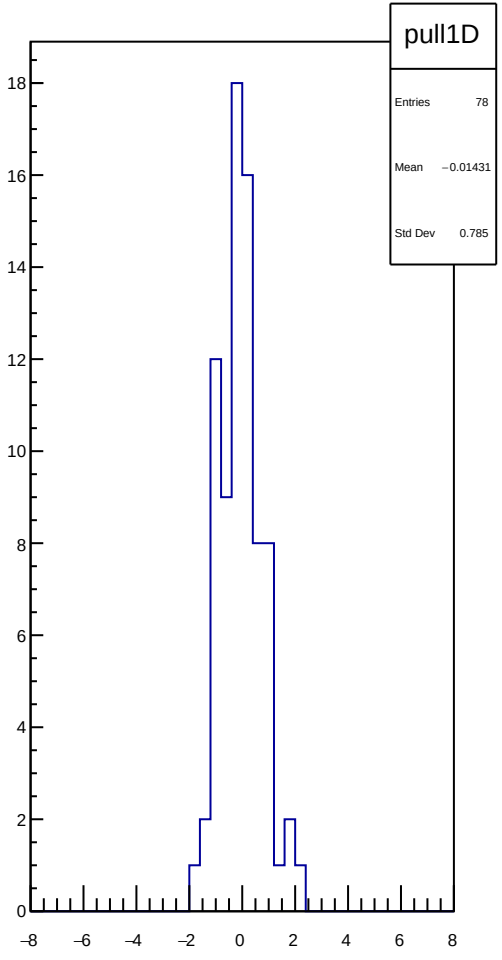

pull1D
Entries 78
Mean 0.01625
Std Dev 0.8114

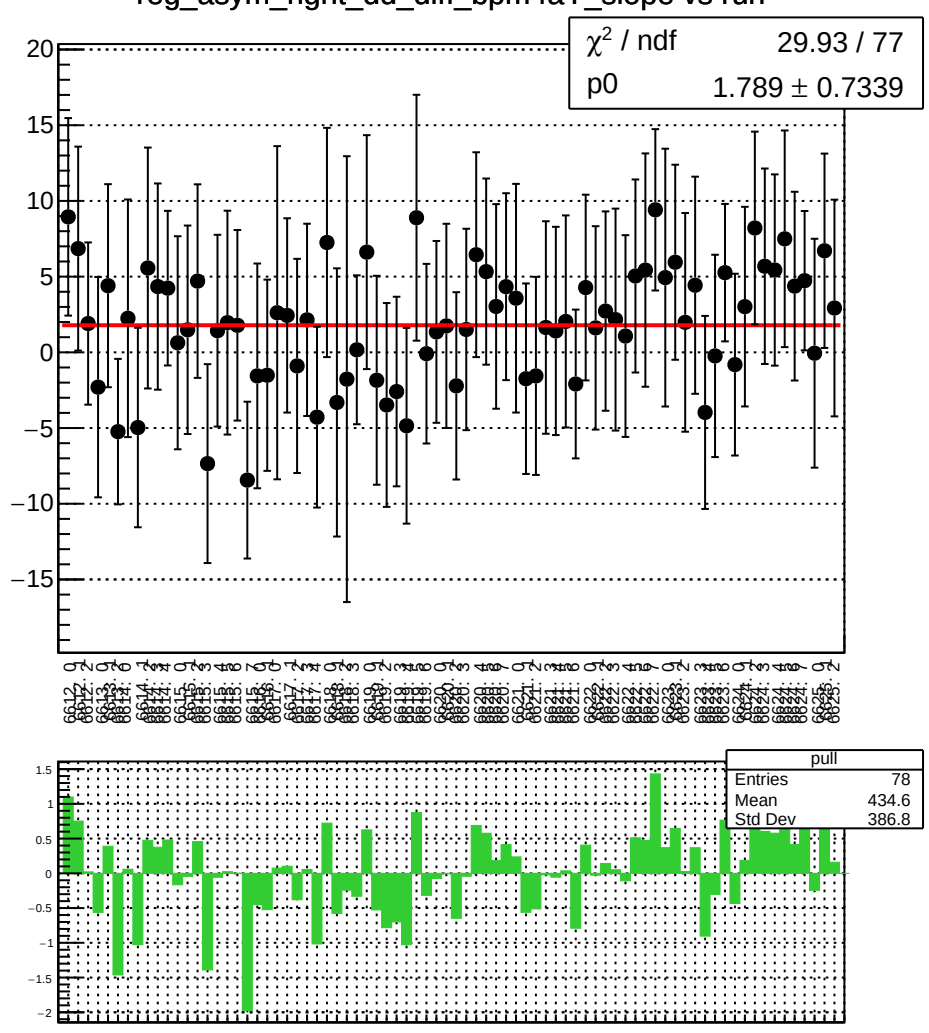

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.6 / 77
p0 9.761 ± 0.88
pull
Entries 78
Mean 3045
Std Dev 2999

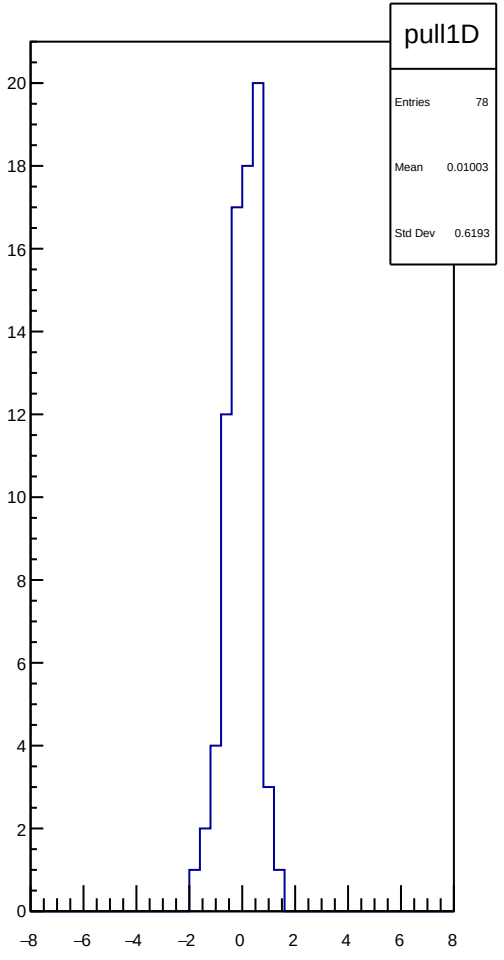

pull1D
Entries 78
Mean −0.001593
Std Dev 0.6661

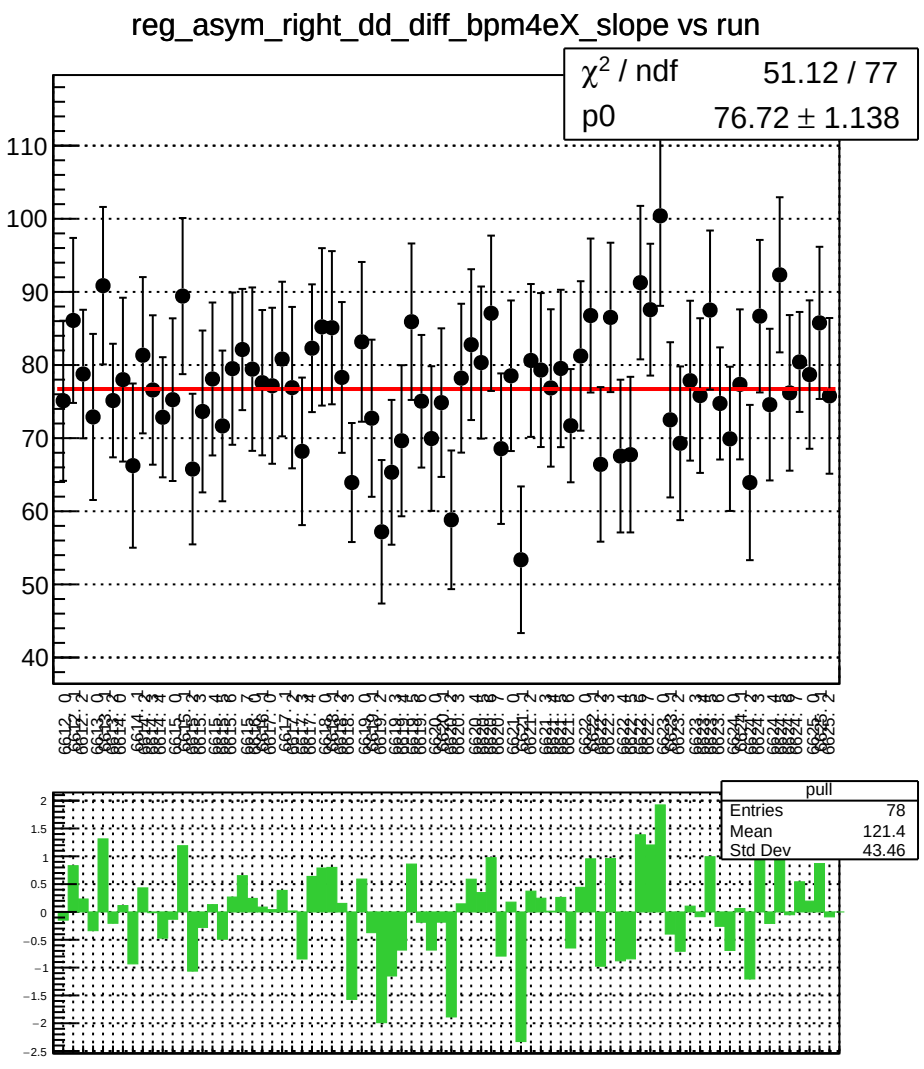

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 294 / 77
p0 −26.89 ± 0.04582
pull
Entries 78
Mean −250.1
Std Dev 283
pull1D
Entries 78
Mean 0.08221
Std Dev 1.577

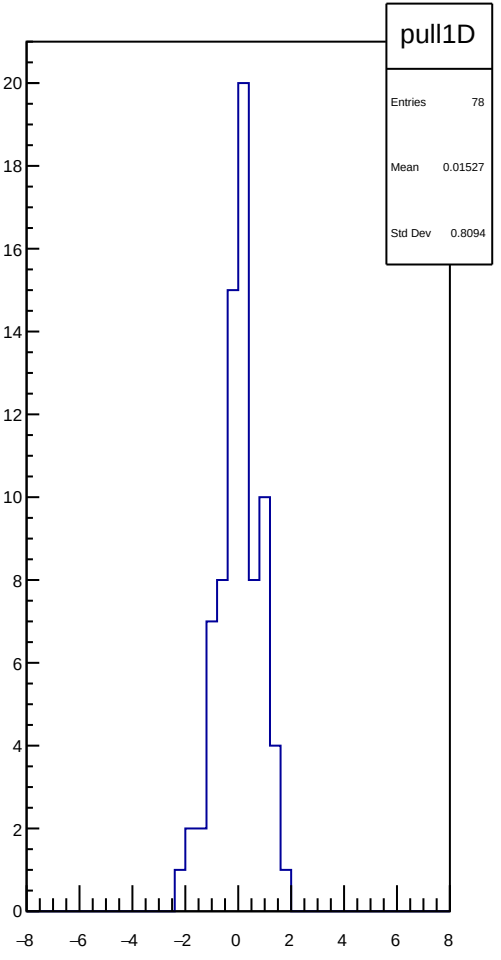

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 48.09 / 77
p0 −41.57 ± 1.067
pull
Entries 78
Mean 90.96
Std Dev 47.08

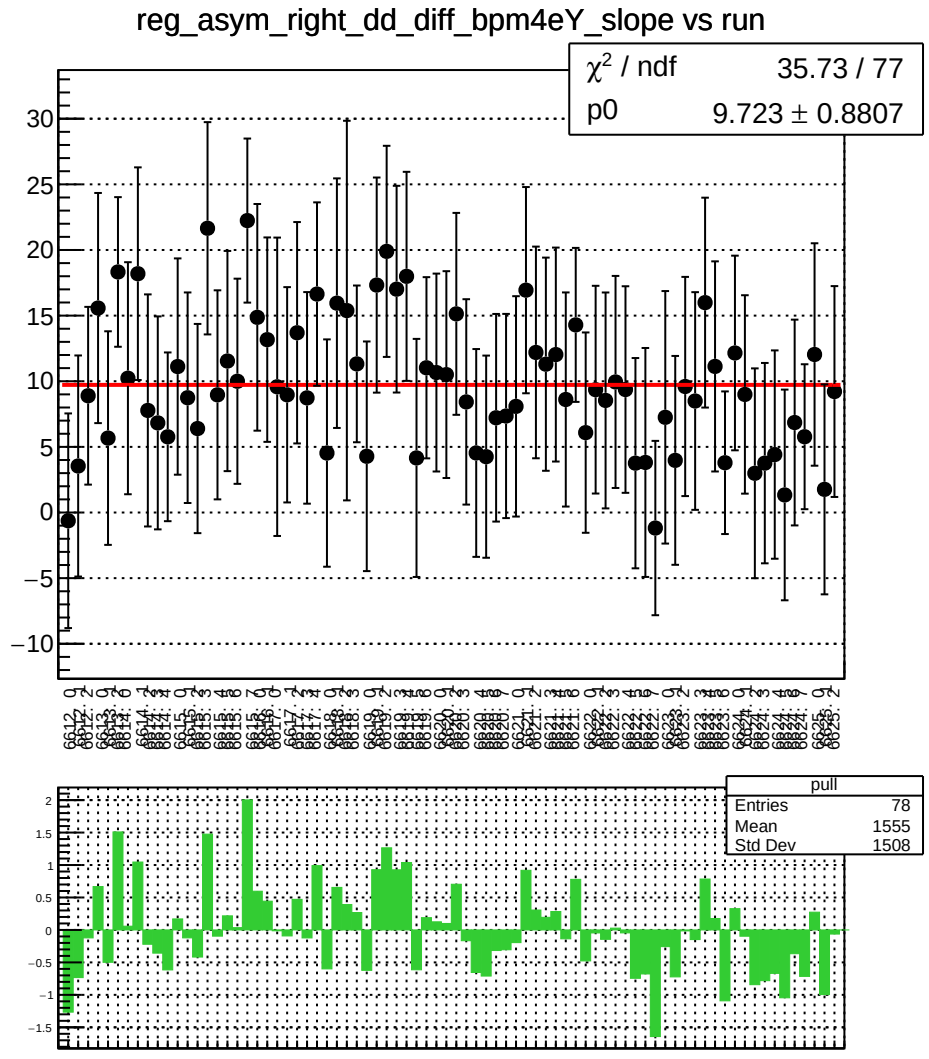

pull1D
Entries 78
Mean −0.01431
Std Dev 0.785

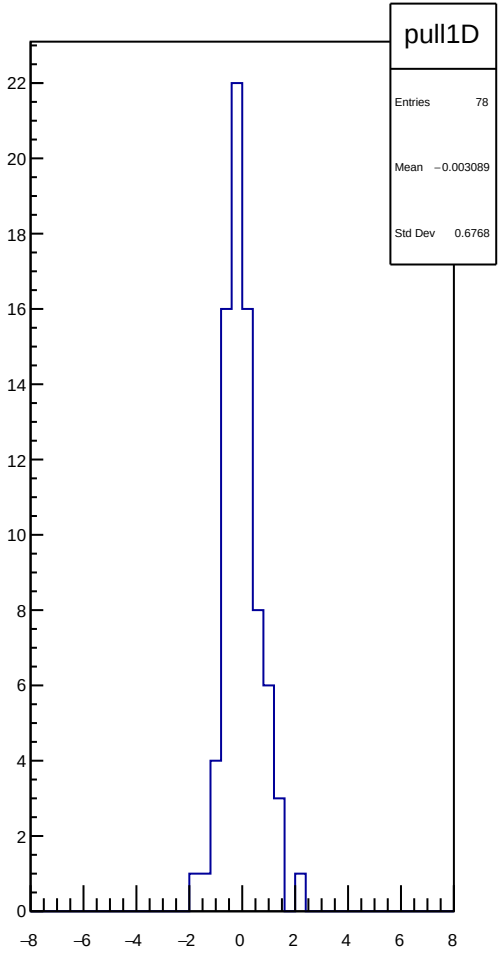

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.93 / 77
p0 1.789 ± 0.7339
pull
Entries 78
Mean 434.6
Std Dev 386.8

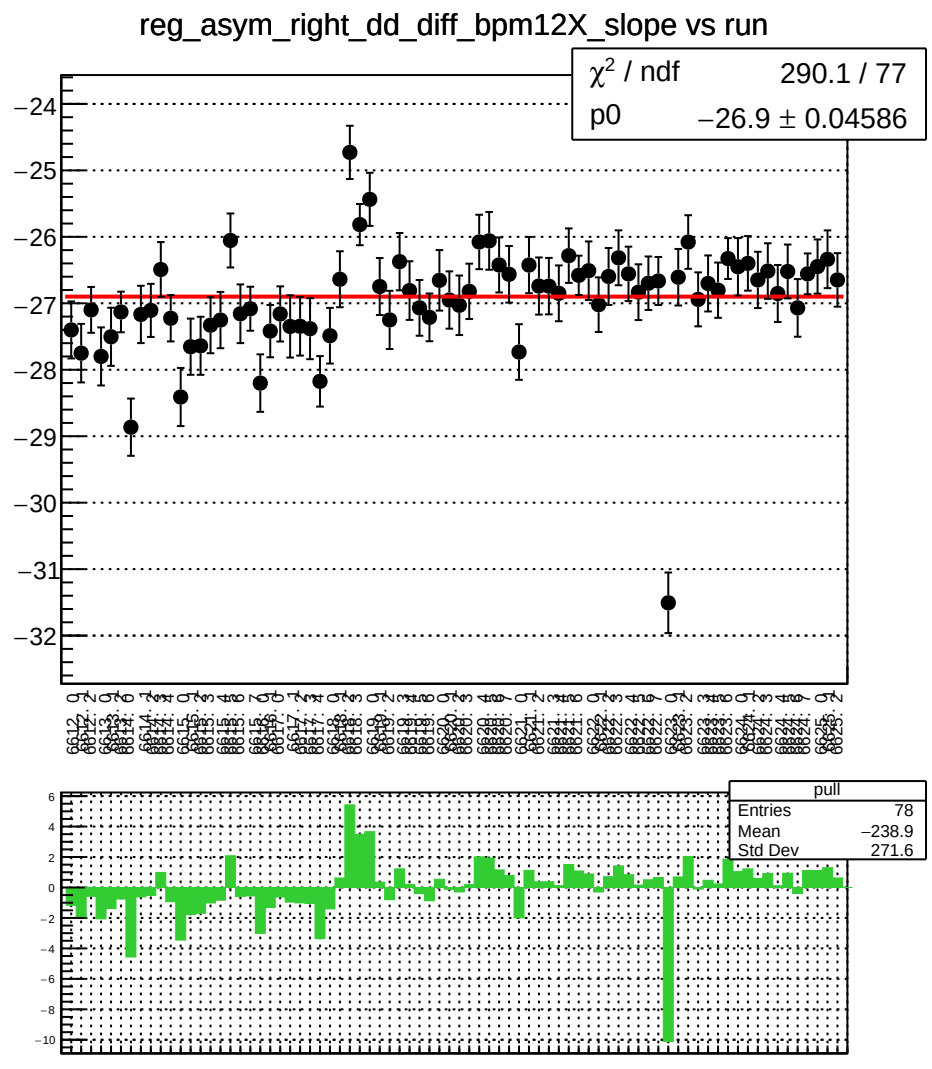

pull1D
Entries 78
Mean 0.01003
Std Dev 0.6193

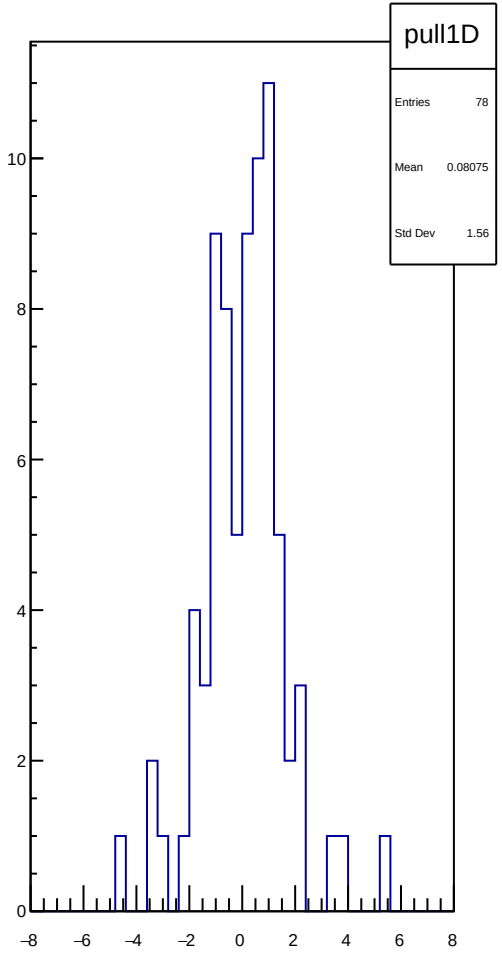

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 51.12 / 77
p0 76.72 ± 1.138
pull
Entries 78
Mean 121.4
Std Dev 43.46

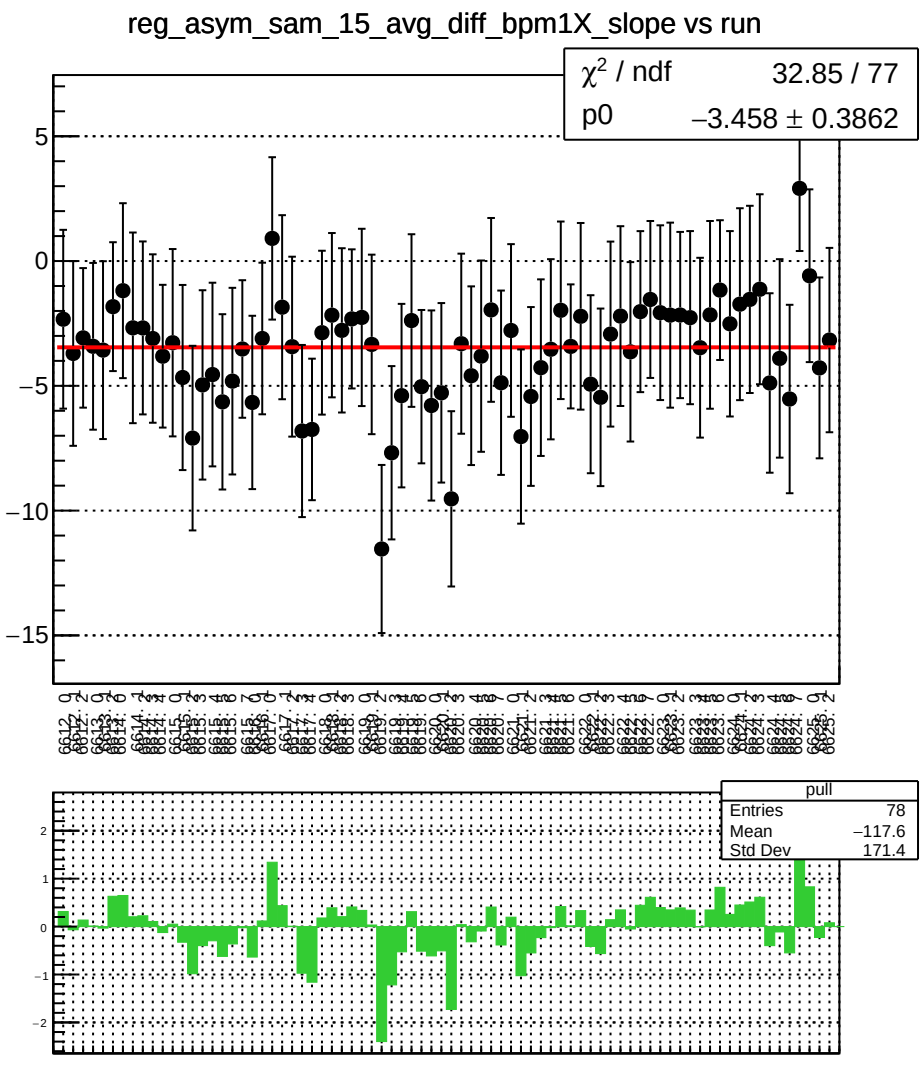

pull1D
Entries 78
Mean 0.01527
Std Dev 0.8094

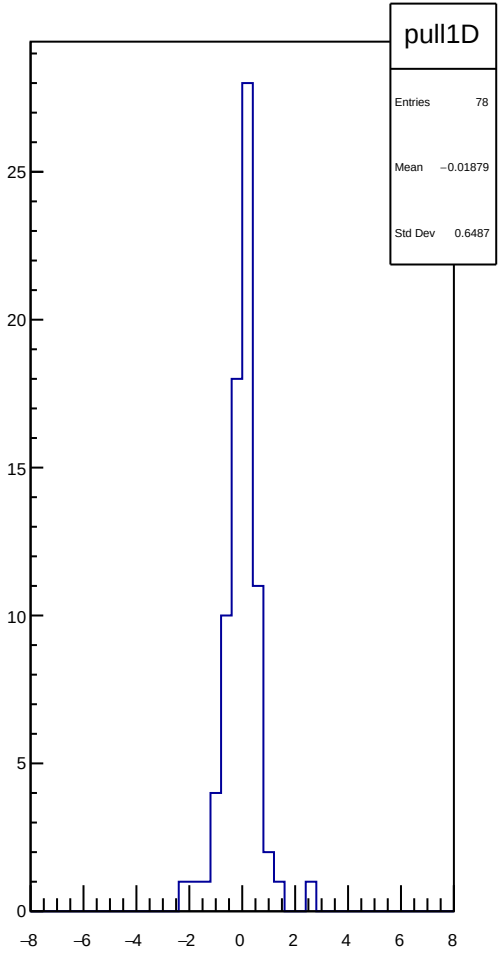

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.73 / 77
p0 9.723 ± 0.8807
pull
Entries 78
Mean 1555
Std Dev 1508

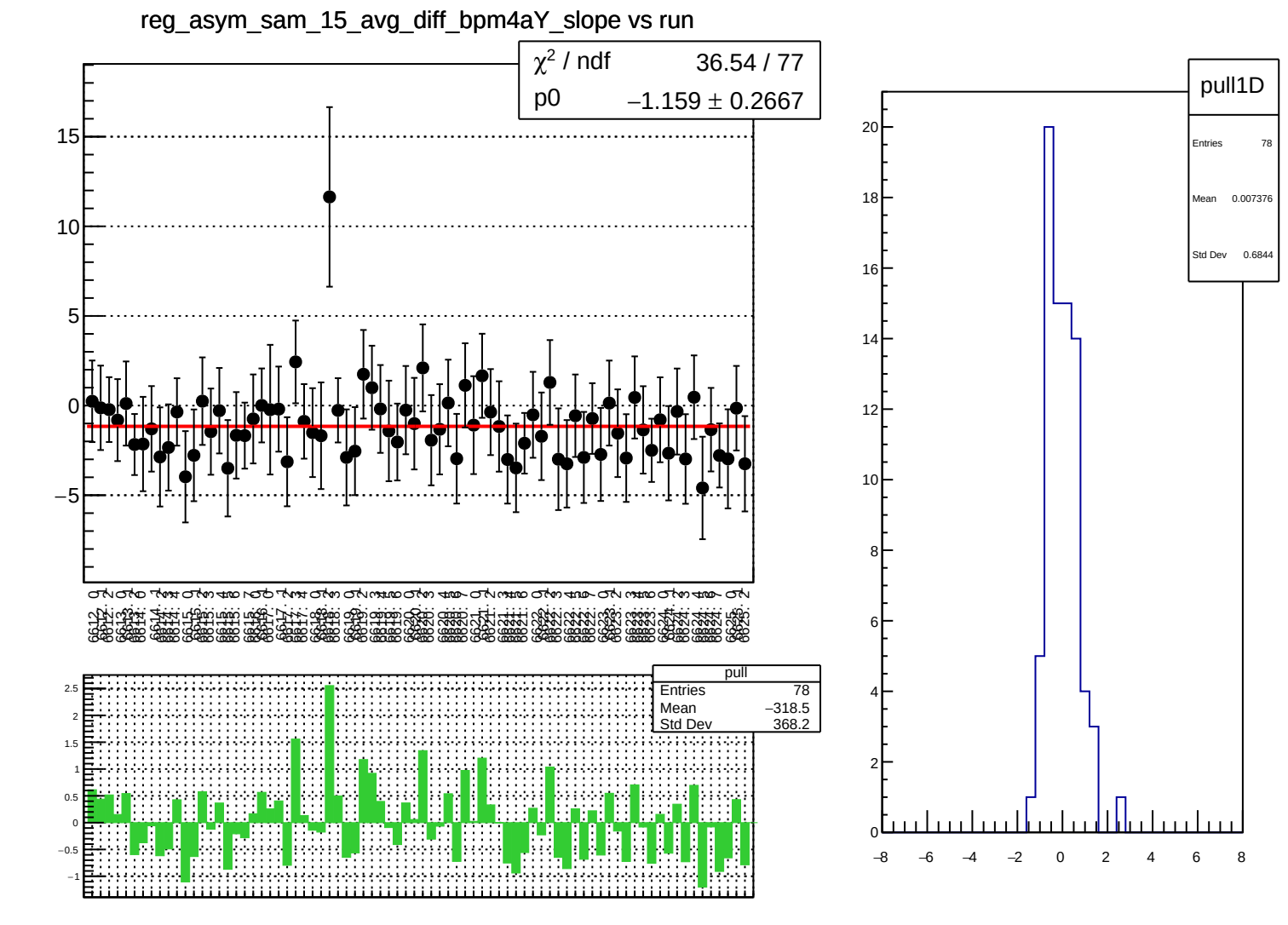

pull1D
Entries 78
Mean −0.003089
Std Dev 0.6768

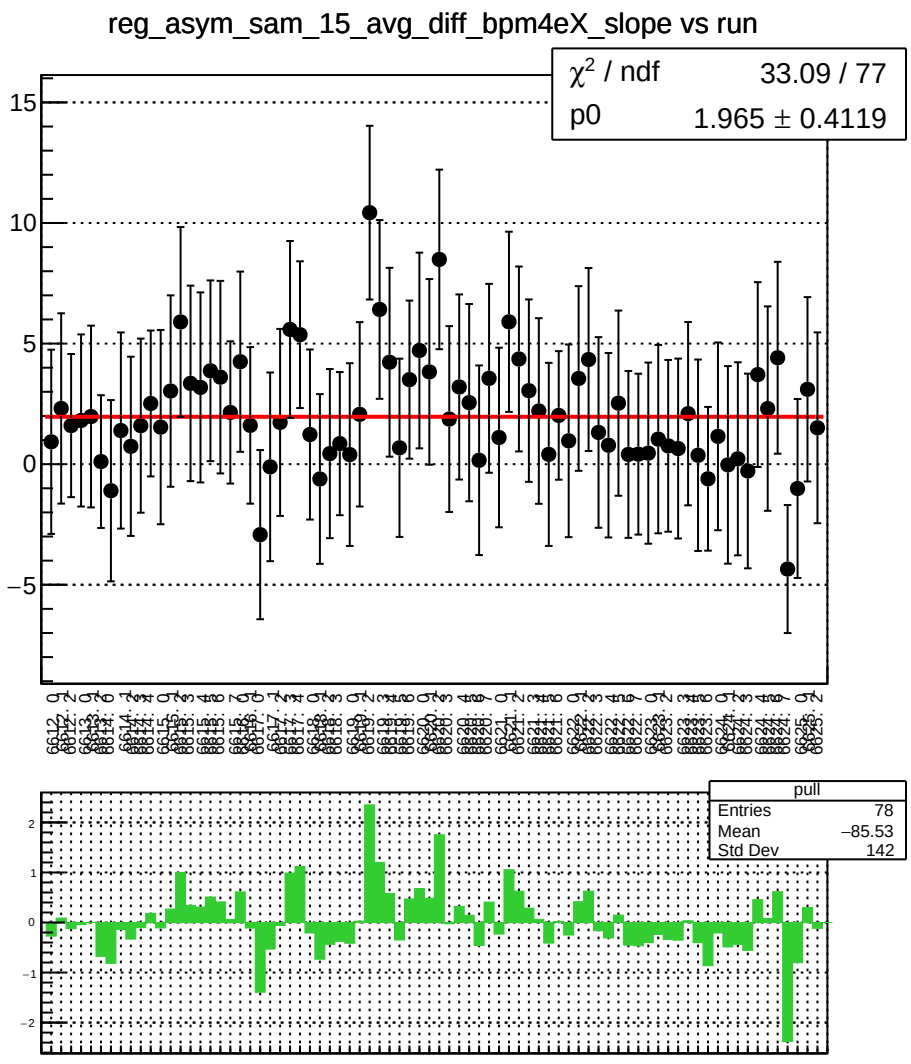

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 290.1 / 77
p0 −26.9 ± 0.04586
pull
Entries 78
Mean −238.9
Std Dev 271.6

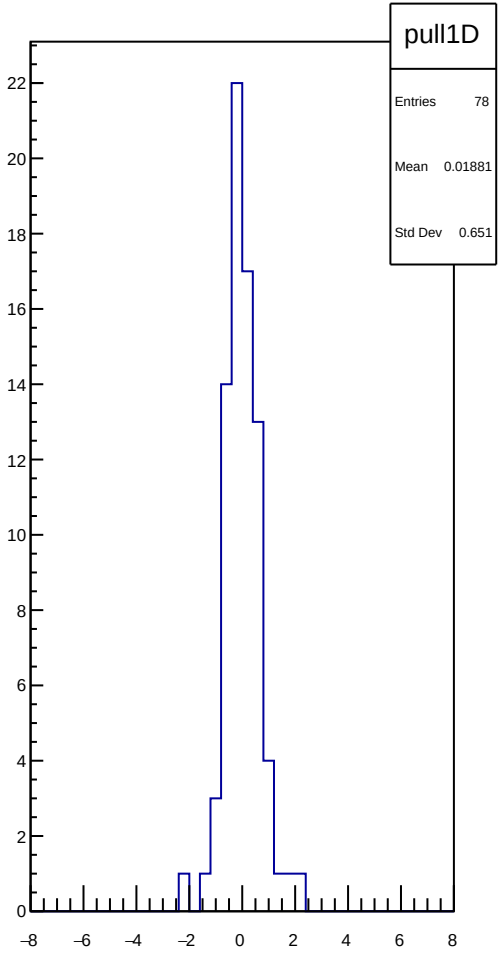

pull1D
Entries 78
Mean 0.08075
Std Dev 1.56

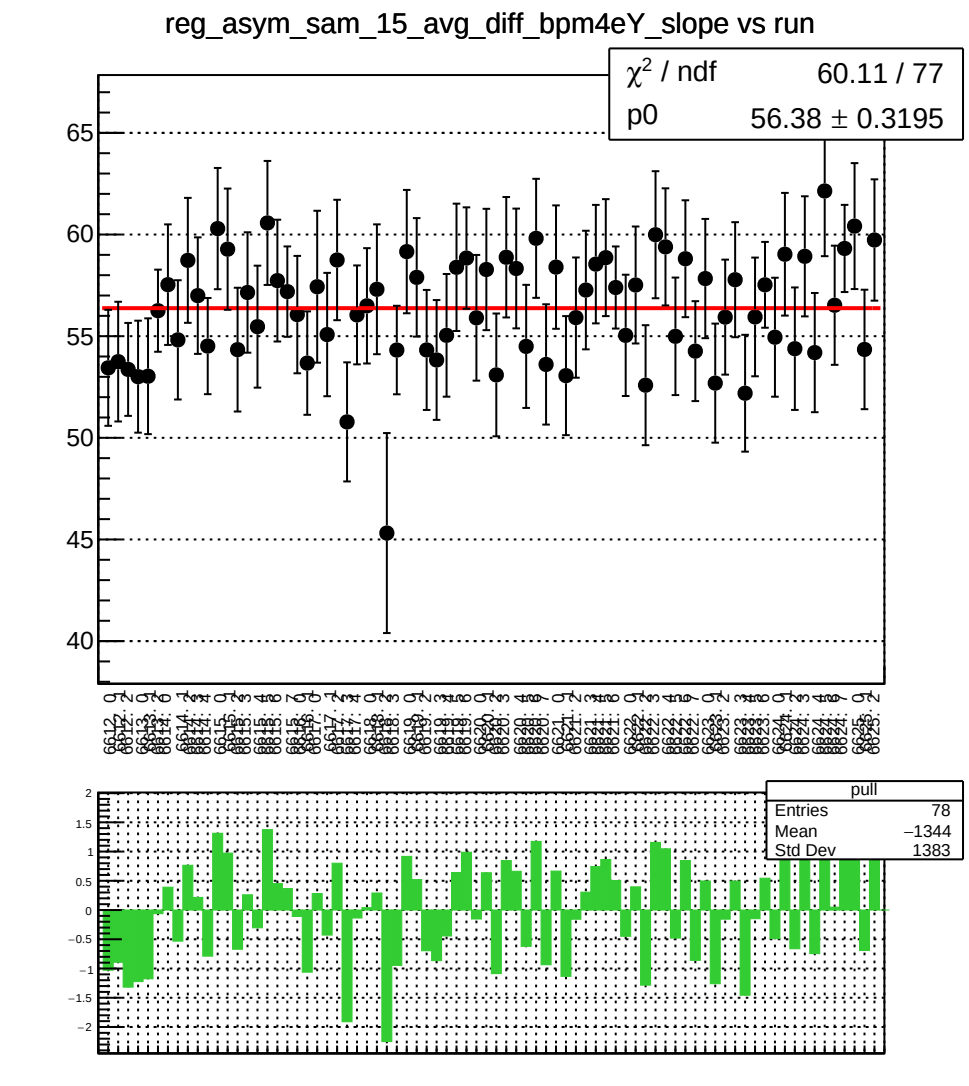

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 32.85 / 77
p0 −3.458 ± 0.3862
pull
Entries 78
Mean −117.6
Std Dev 171.4

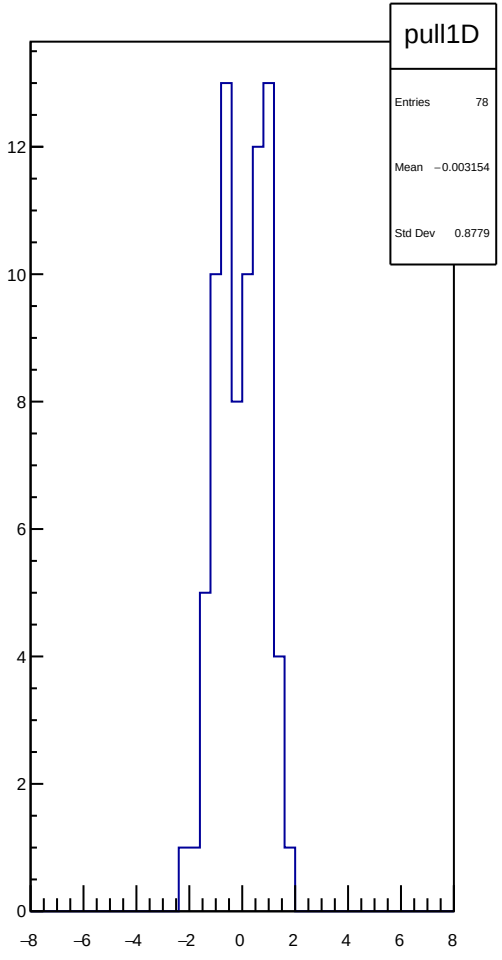

pull1D
Entries 78
Mean −0.01879
Std Dev 0.6487

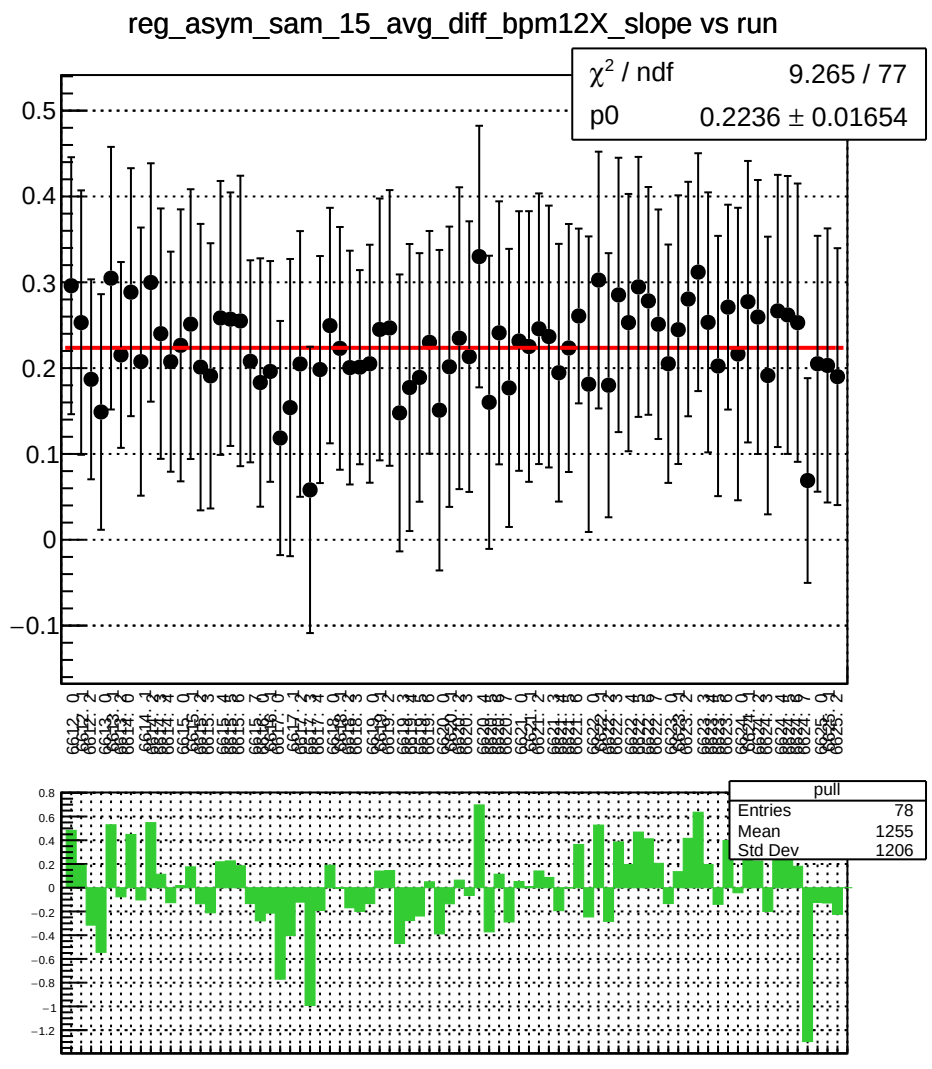

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.54 / 77
p0 −1.159 ± 0.2667
pull
Entries 78
Mean −318.5
Std Dev 368.2
pull1D
Entries 78
Mean 0.007376
Std Dev 0.6844

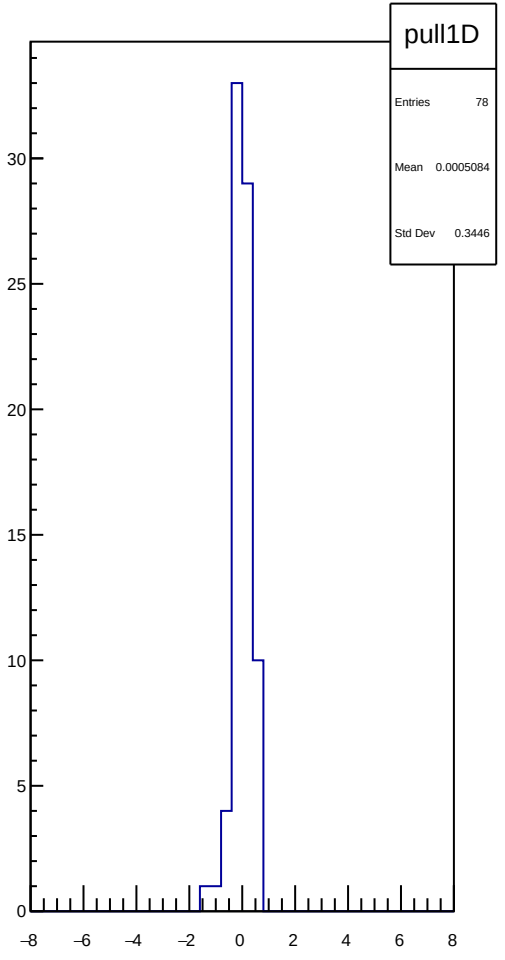

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.09 / 77
p0 1.965 ± 0.4119
pull
Entries 78
Mean −85.53
Std Dev 142

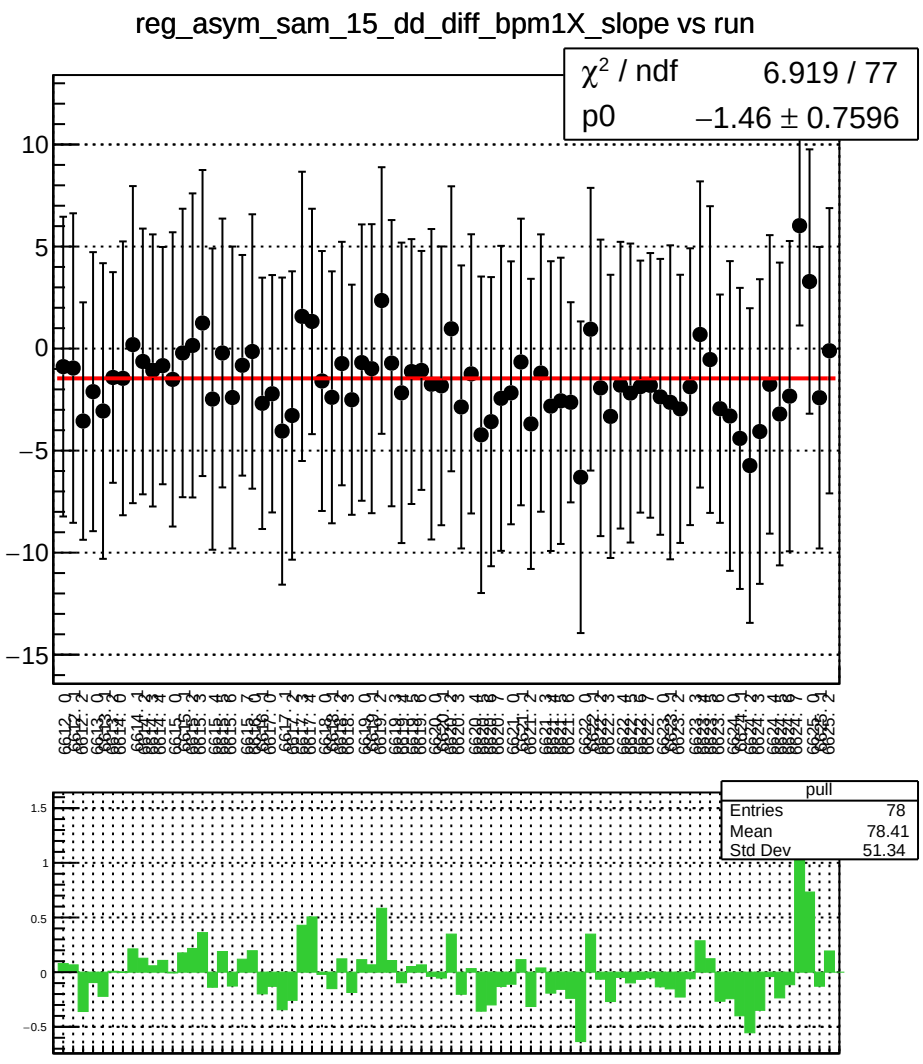

pull1D
Entries 78
Mean 0.01881
Std Dev 0.651

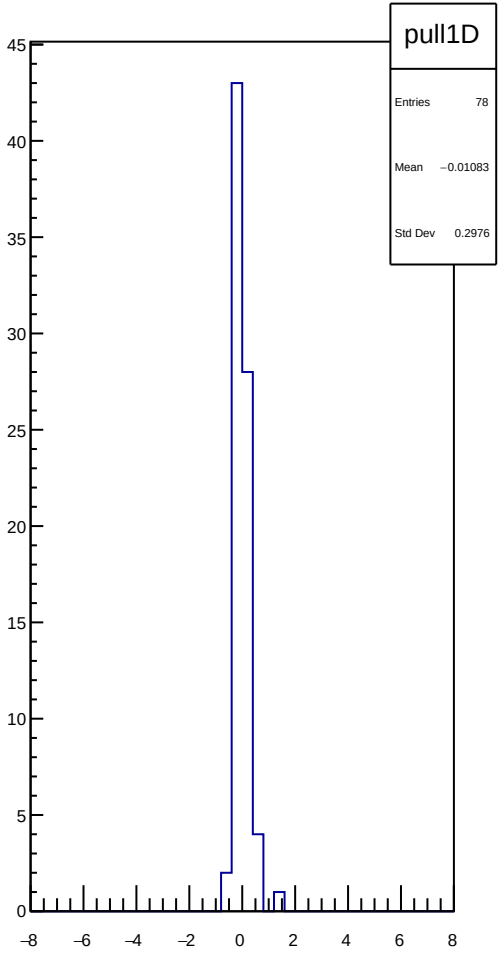

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.11 / 77
p0 56.38 ± 0.3195
pull
Entries 78
Mean −1344
Std Dev 1383

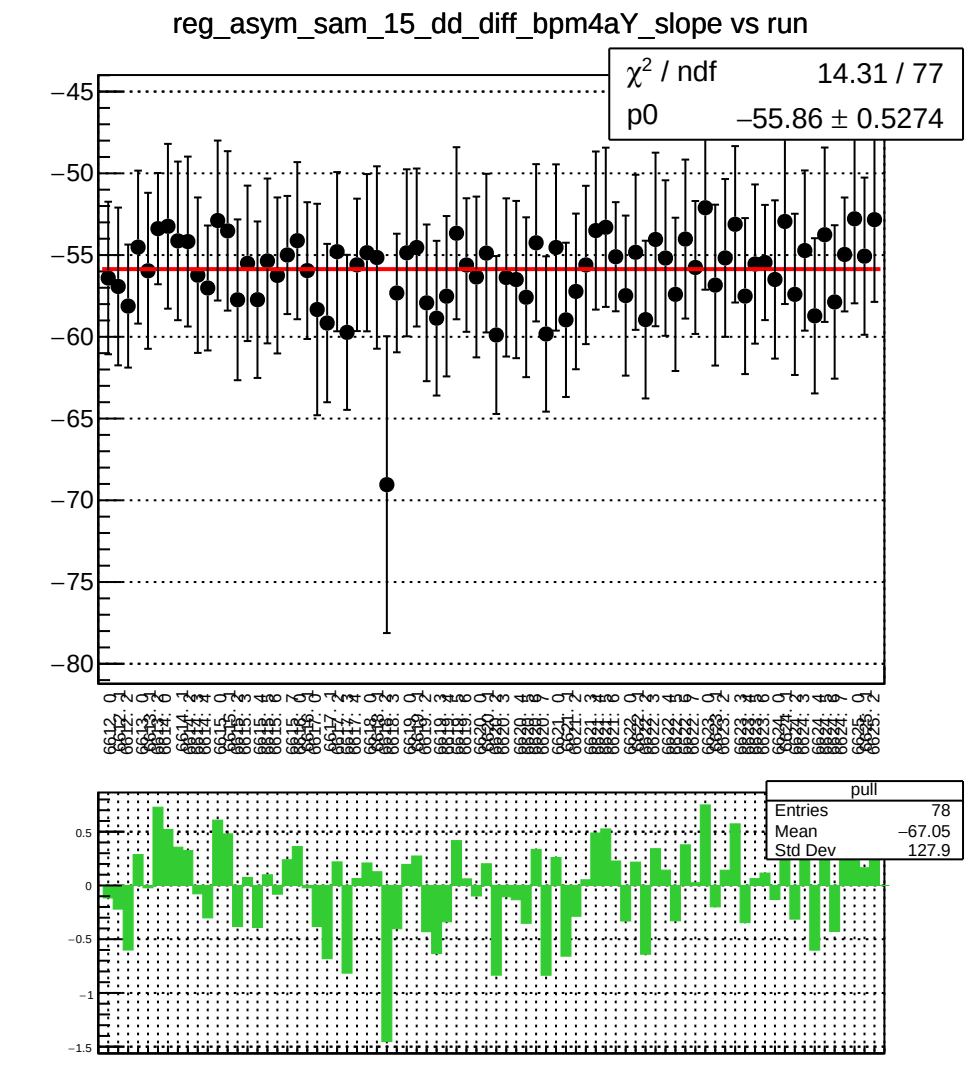

pull1D
Entries 78
Mean −0.003154
Std Dev 0.8779

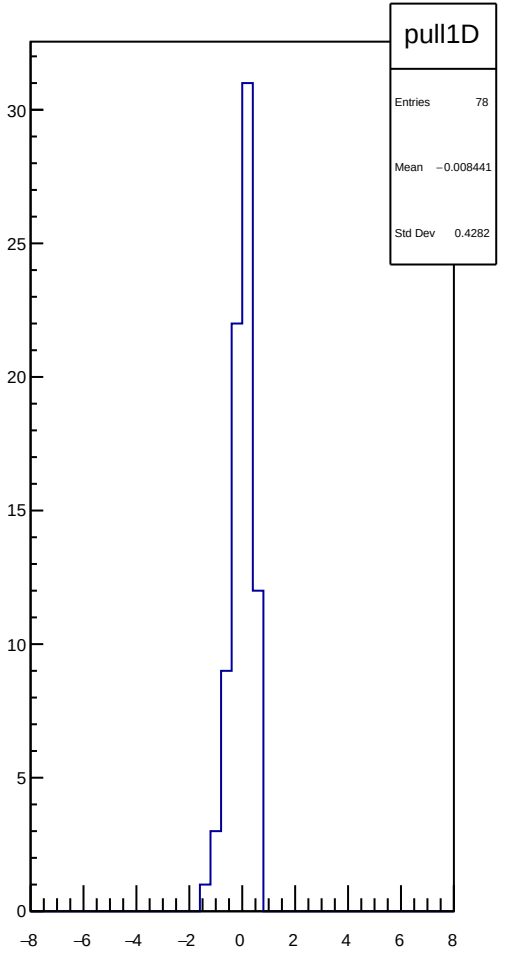

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 9.265 / 77
p0 0.2236 ± 0.01654
pull
Entries 78
Mean 1255
Std Dev 1206

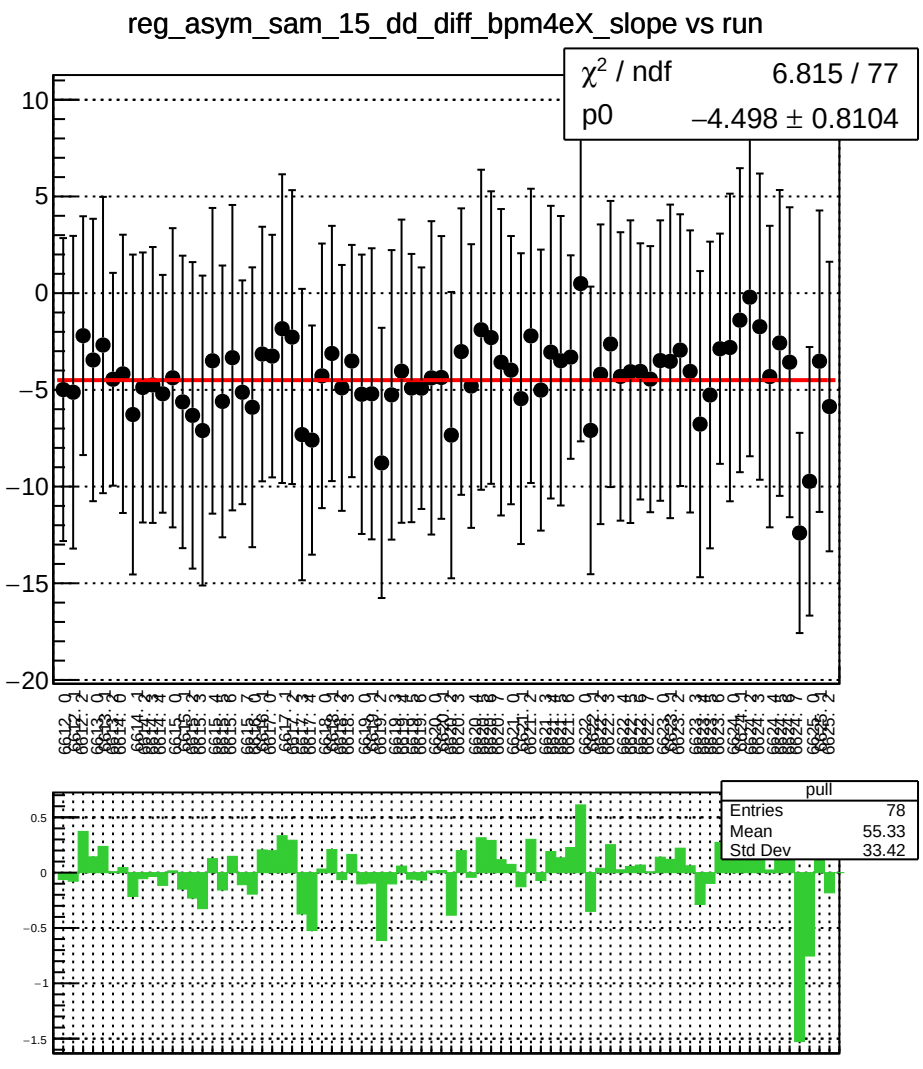

pull1D
Entries 78
Mean 0.0005084
Std Dev 0.3446

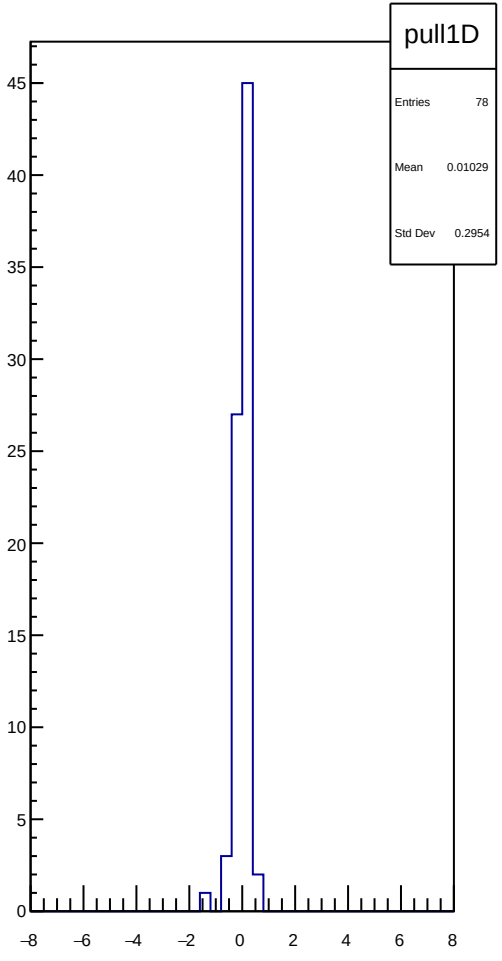

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 6.919 / 77
p0 −1.46 ± 0.7596
pull
Entries 78
Mean 78.41
Std Dev 51.34

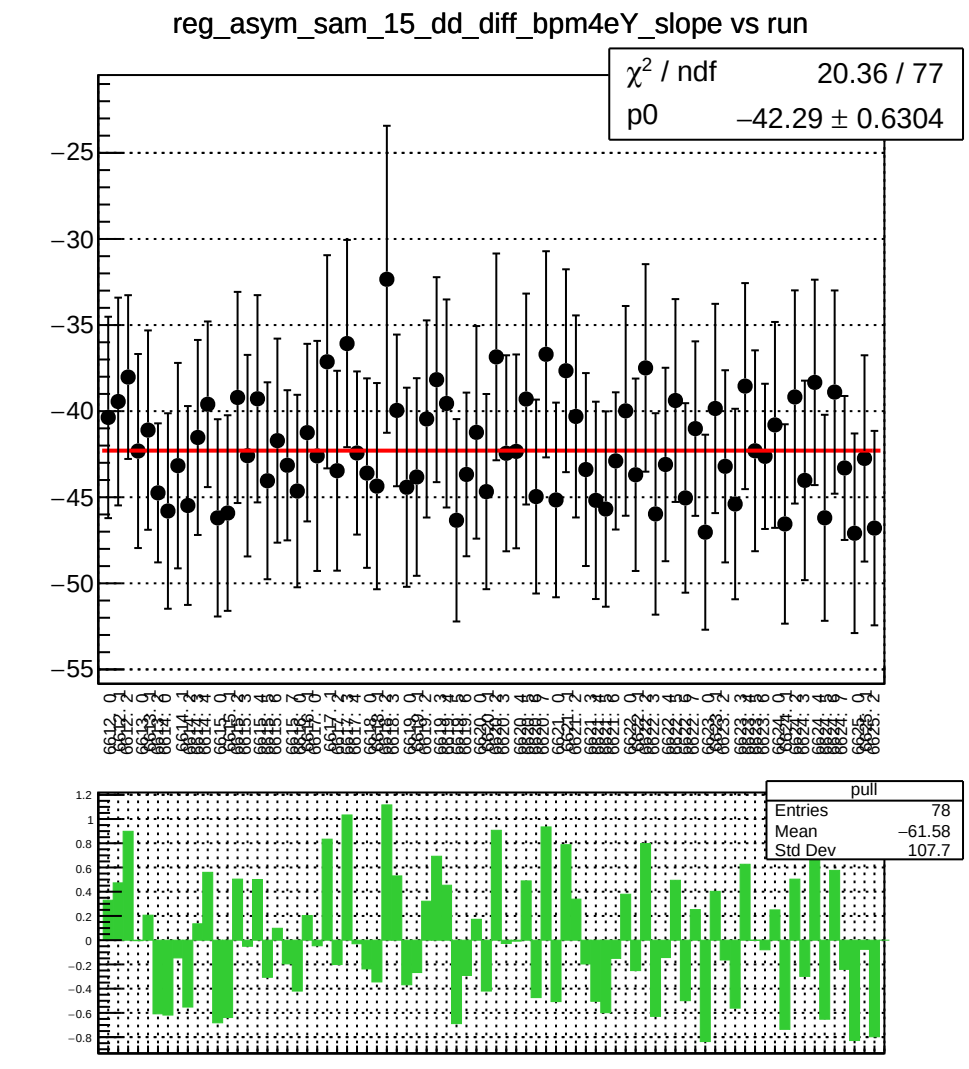

pull1D
Entries 78
Mean −0.01083
Std Dev 0.2976

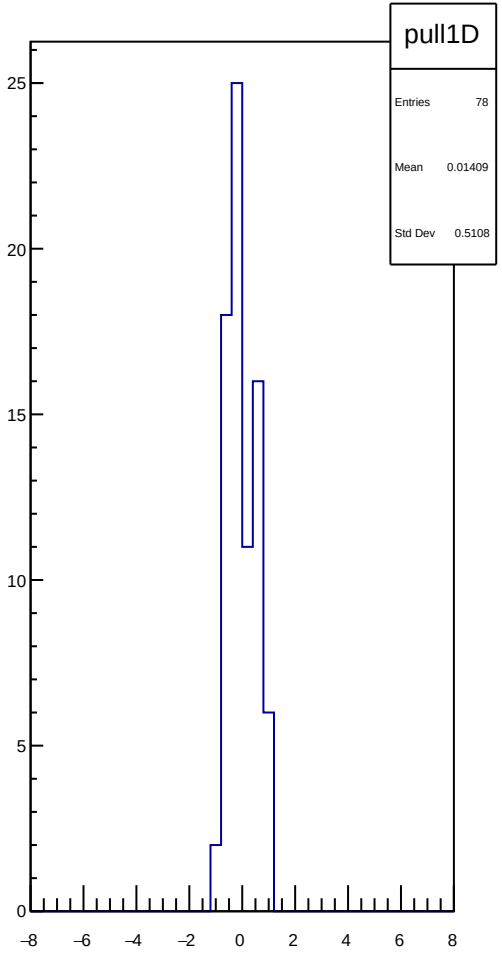

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.31 / 77
p0 −55.86 ± 0.5274
pull
Entries 78
Mean −67.05
Std Dev 127.9

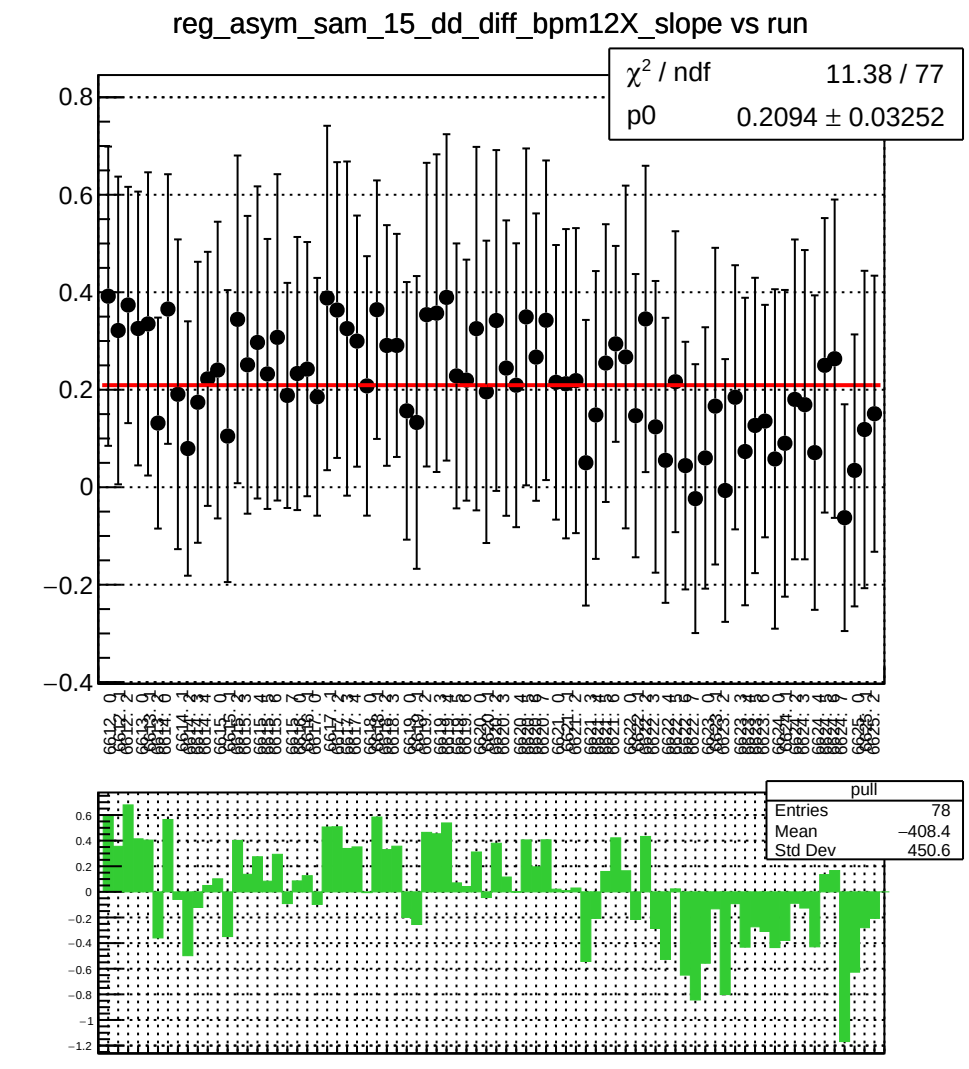

pull1D
Entries 78
Mean −0.008441
Std Dev 0.4282

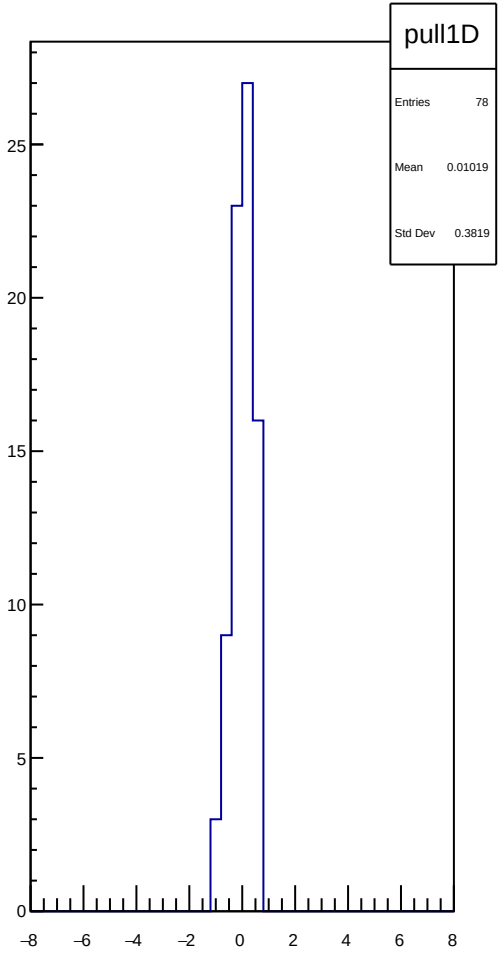

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.815 / 77
p0 −4.498 ± 0.8104
pull
Entries 78
Mean 55.33
Std Dev 33.42

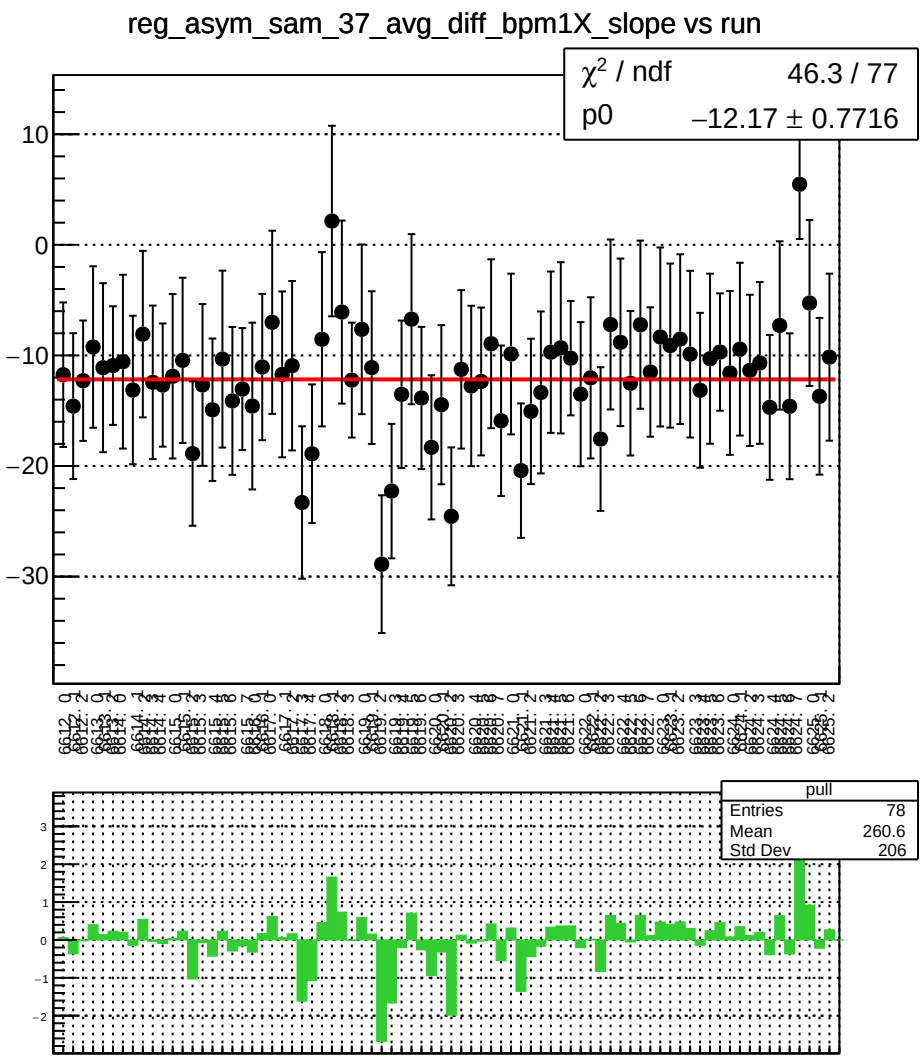

pull1D
Entries 78
Mean 0.01029
Std Dev 0.2954

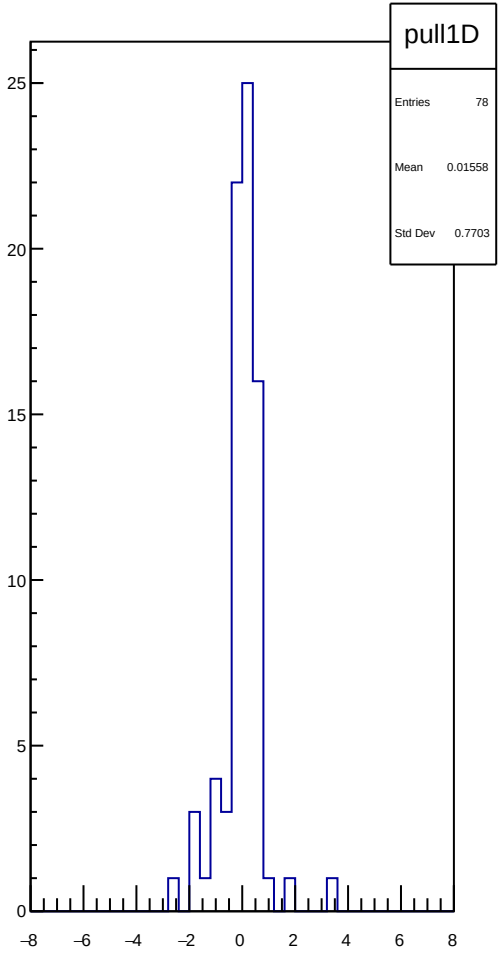

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.36 / 77
p0 −42.29 ± 0.6304
pull
Entries 78
Mean −61.58
Std Dev 107.7

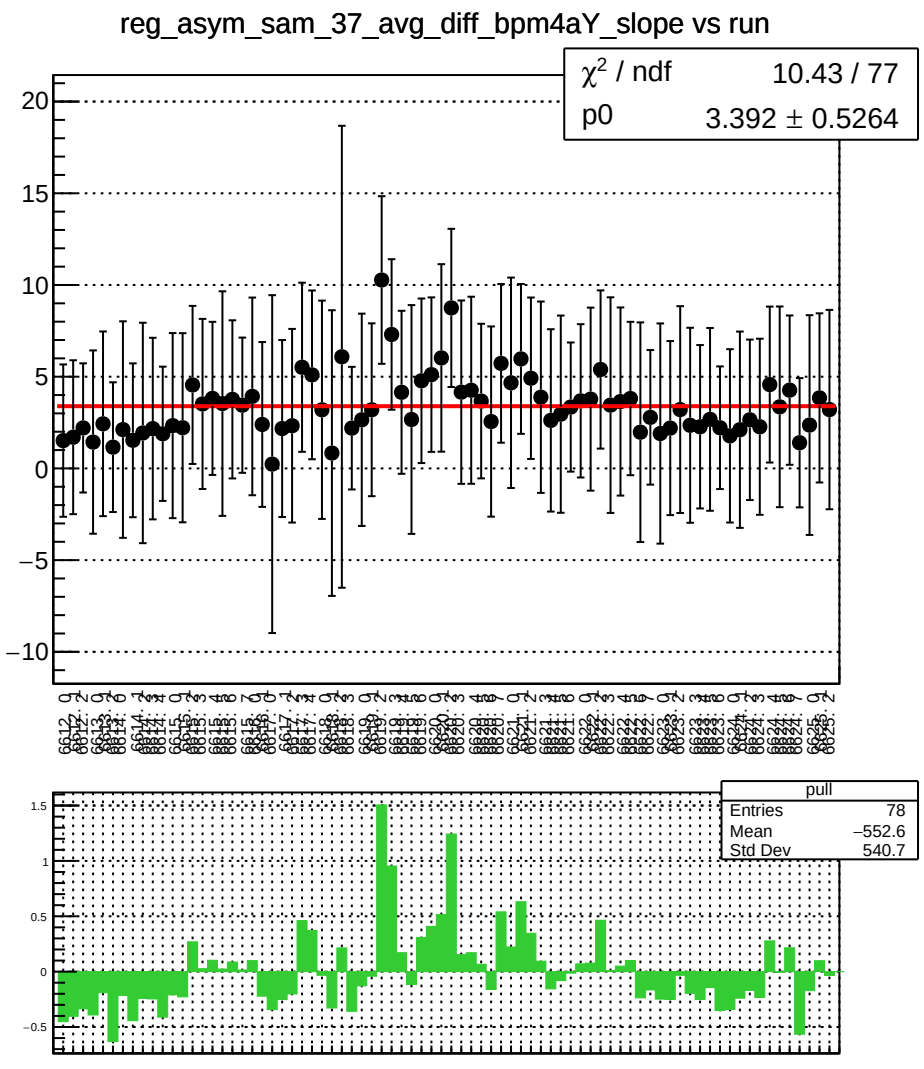

pull1D
Entries 78
Mean 0.01409
Std Dev 0.5108

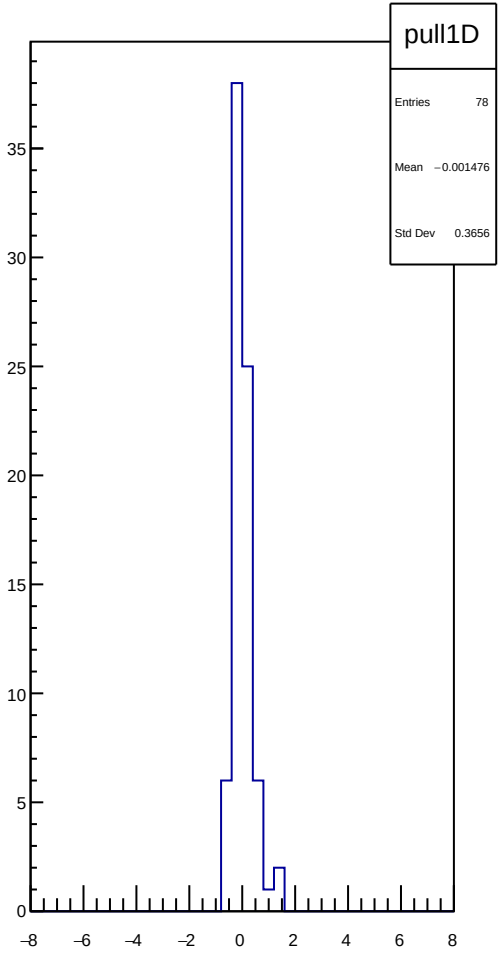

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 11.38 / 77
p0 0.2094 ± 0.03252
pull
Entries 78
Mean −408.4
Std Dev 450.6

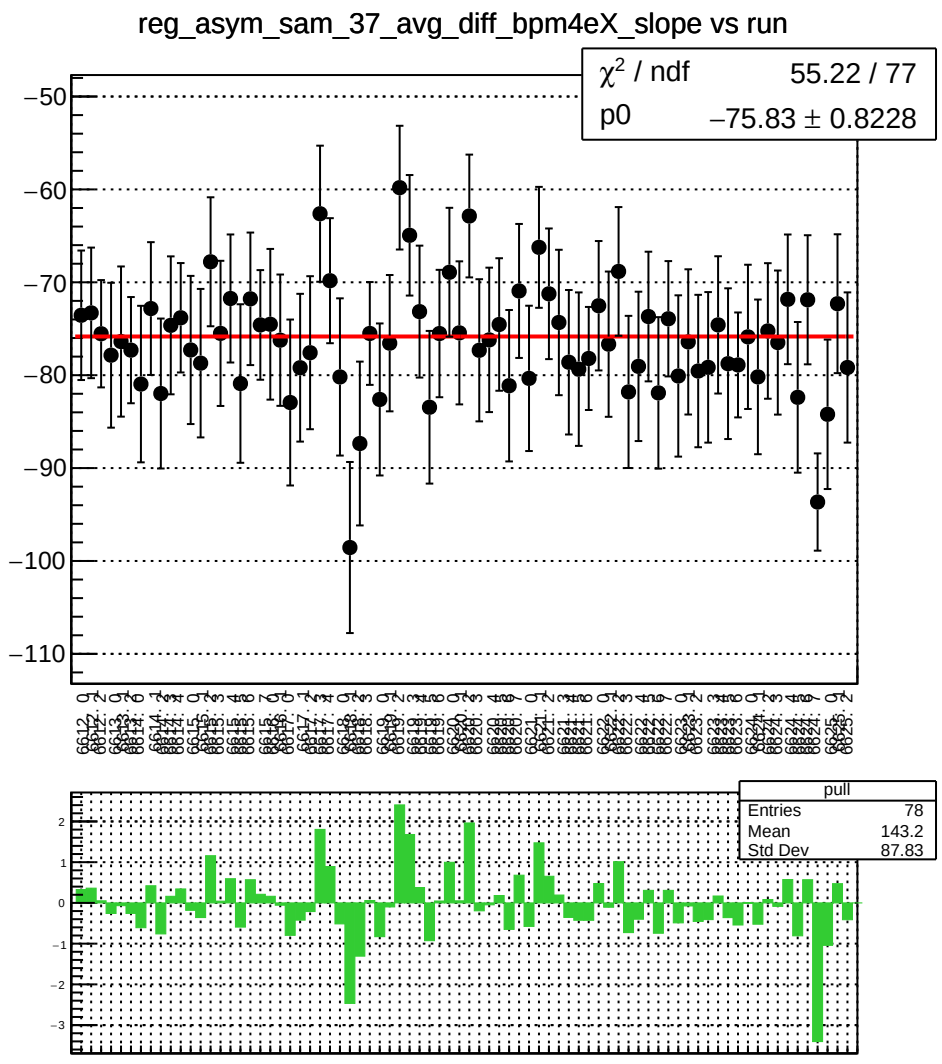

pull1D
Entries 78
Mean 0.01019
Std Dev 0.3819

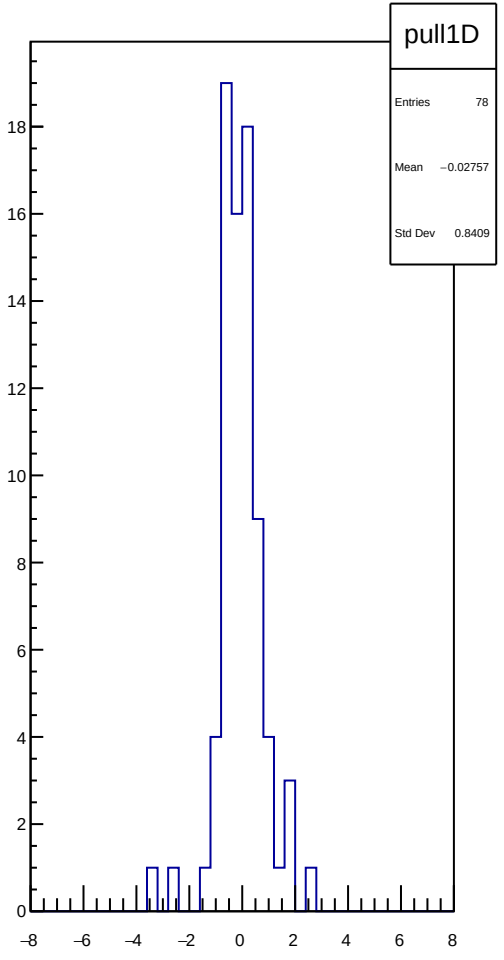

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 46.3 / 77
p0 −12.17 ± 0.7716
pull
Entries 78
Mean 260.6
Std Dev 206

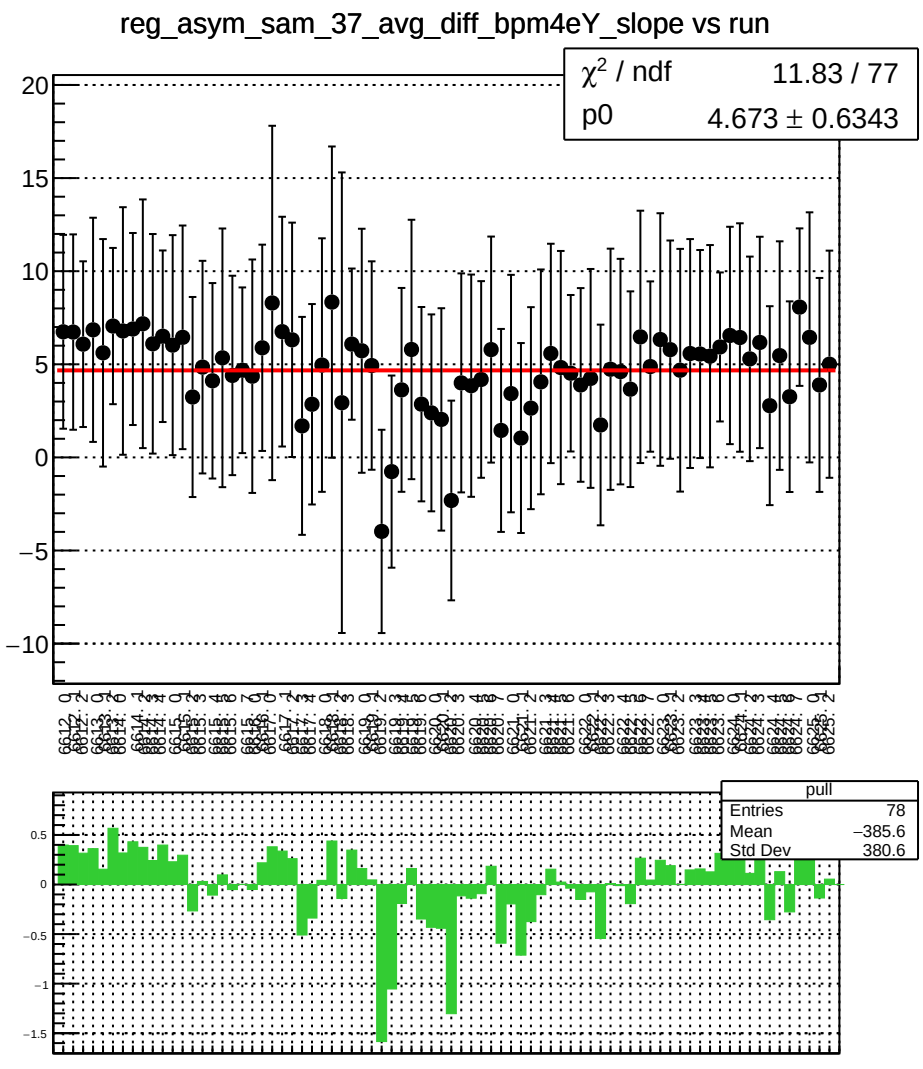

pull1D
Entries 78
Mean 0.01558
Std Dev 0.7703

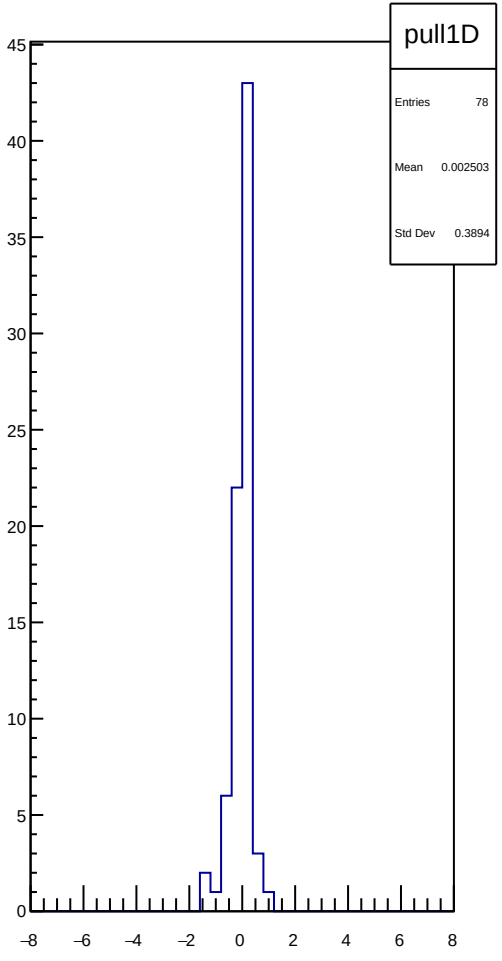

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.43 / 77
p0 3.392 ± 0.5264
pull
Entries 78
Mean −552.6
Std Dev 540.7

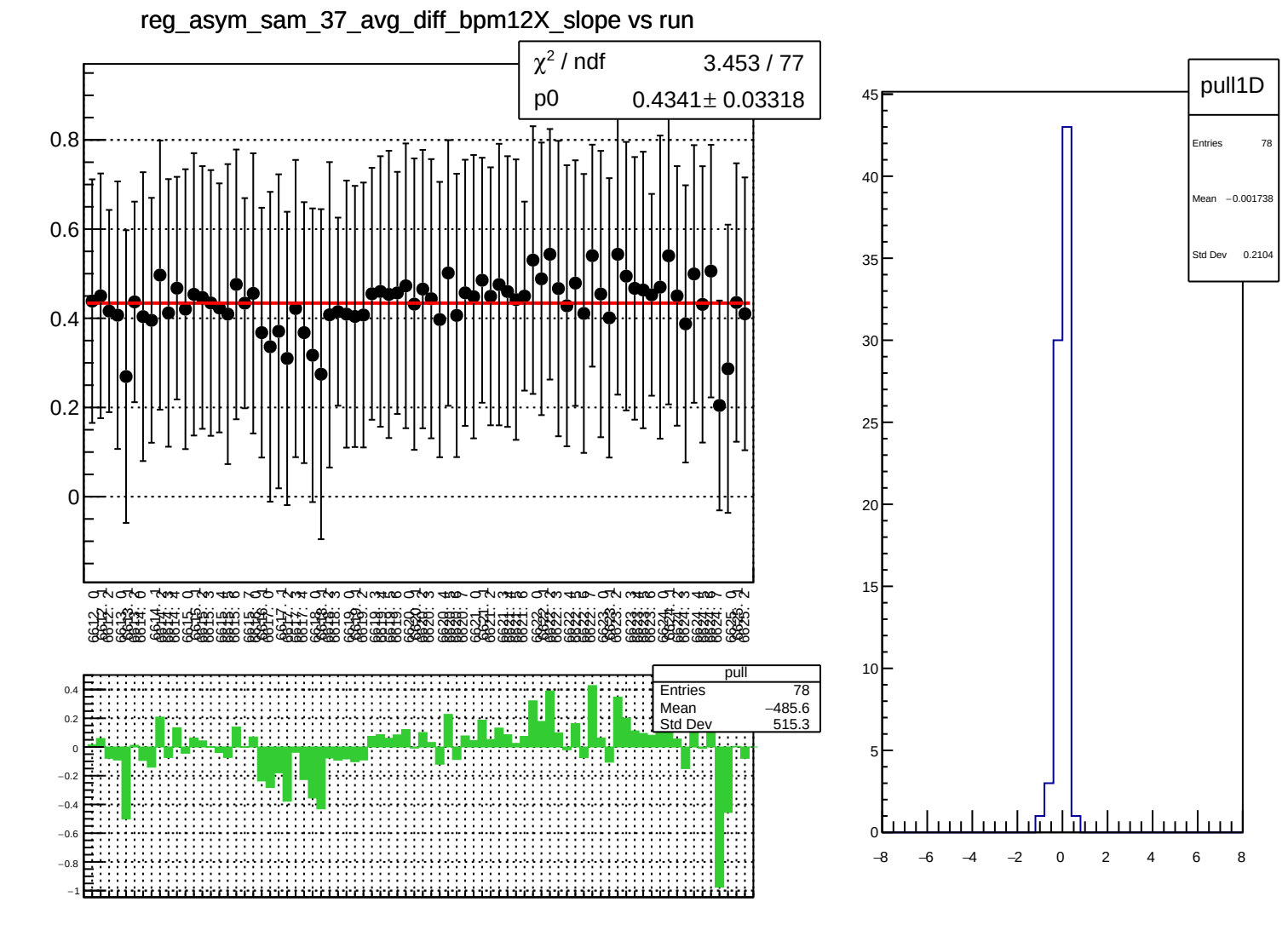

pull1D
Entries 78
Mean −0.001476
Std Dev 0.3656

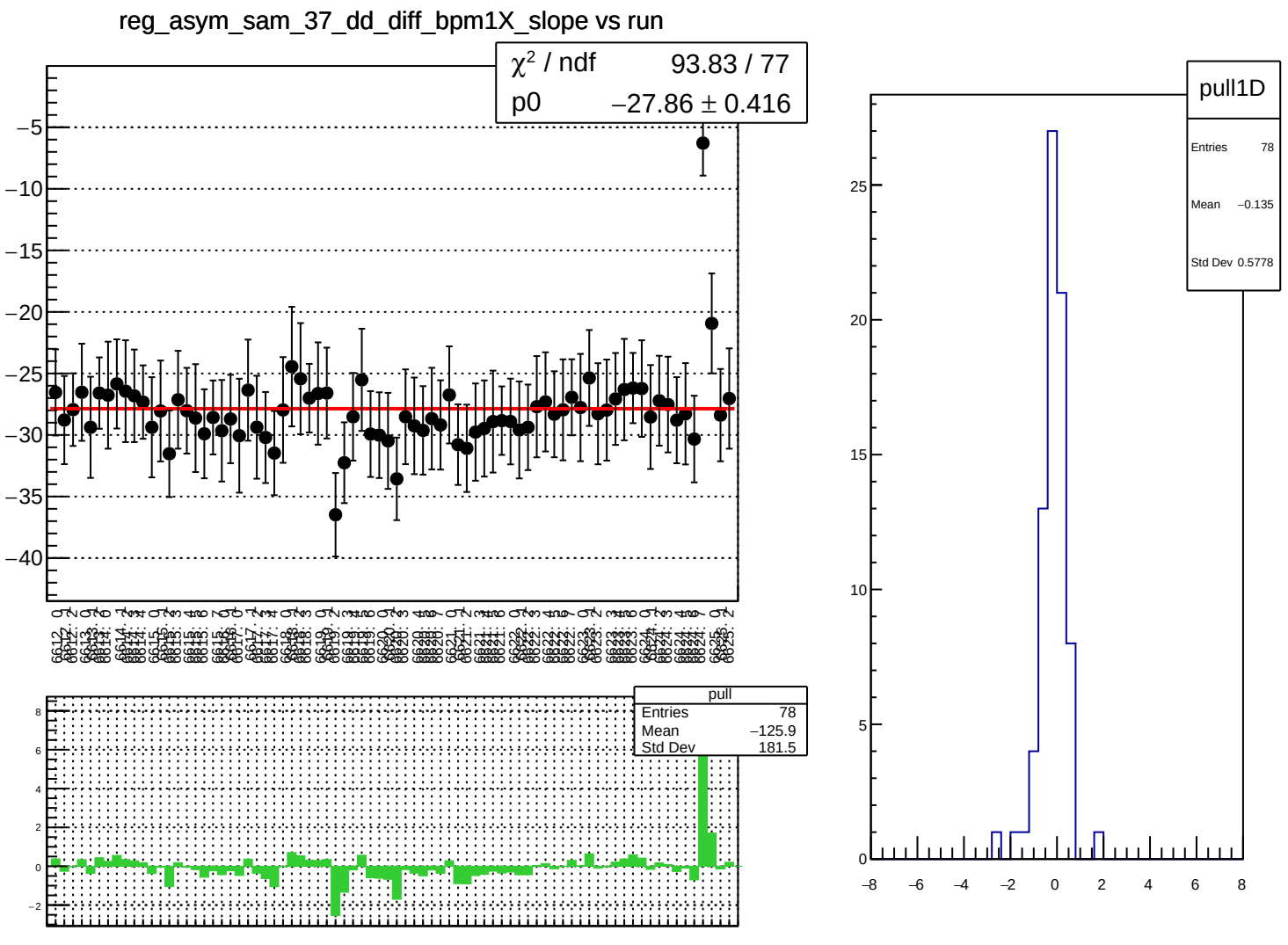

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.22 / 77
p0 −75.83 ± 0.8228
pull
Entries 78
Mean 143.2
Std Dev 87.83

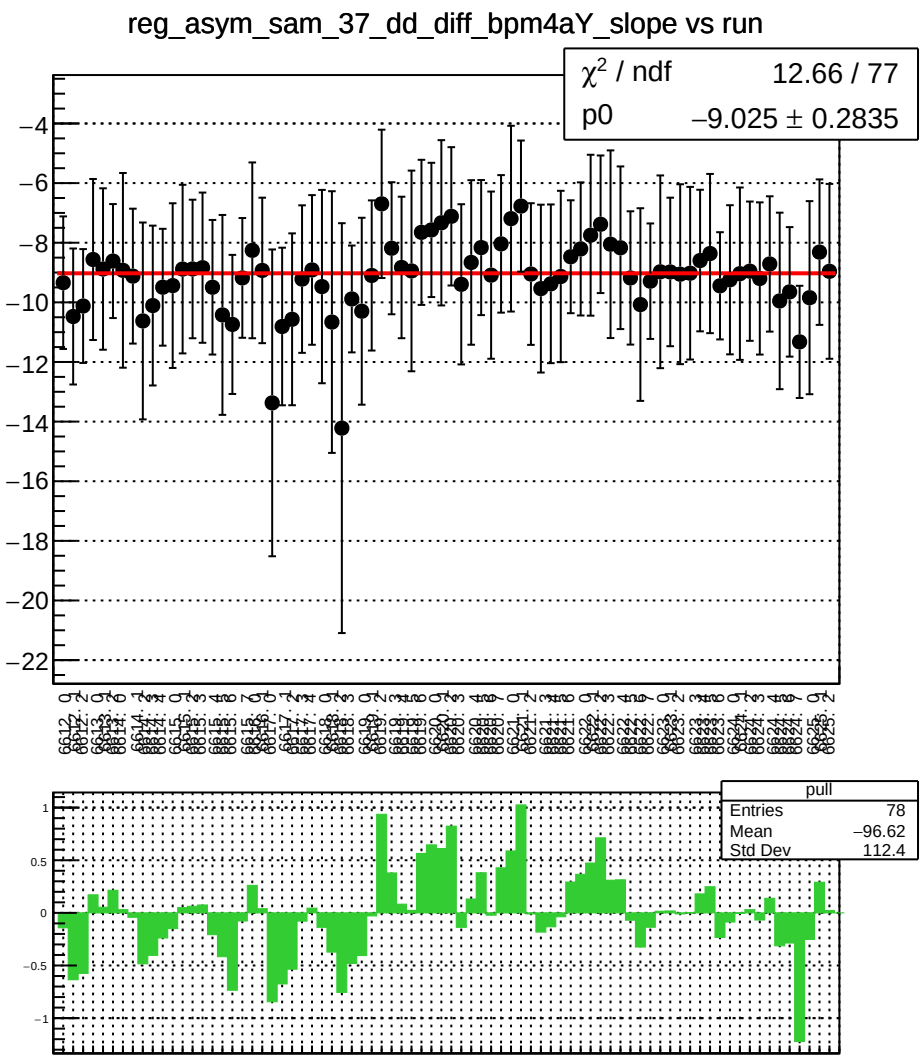

pull1D
Entries 78
Mean −0.02757
Std Dev 0.8409

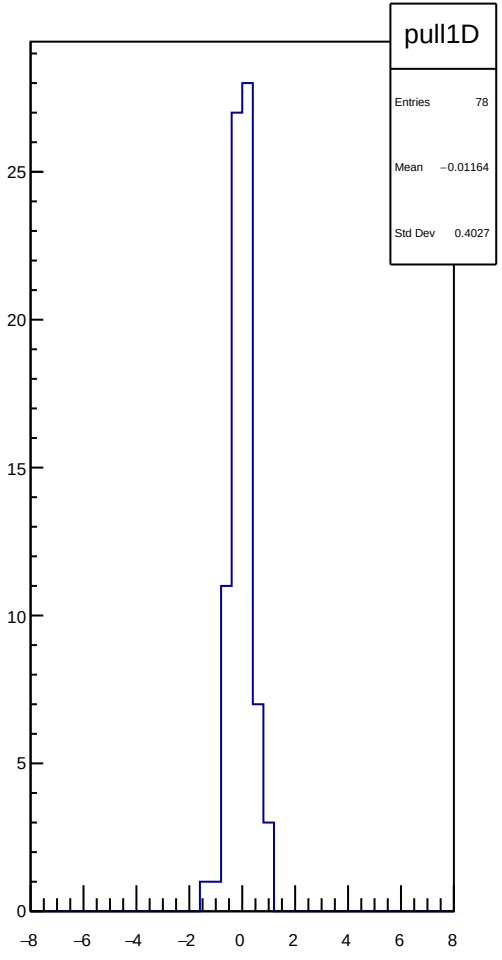

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.83 / 77
p0 4.673 ± 0.6343
pull
Entries 78
Mean −385.6
Std Dev 380.6

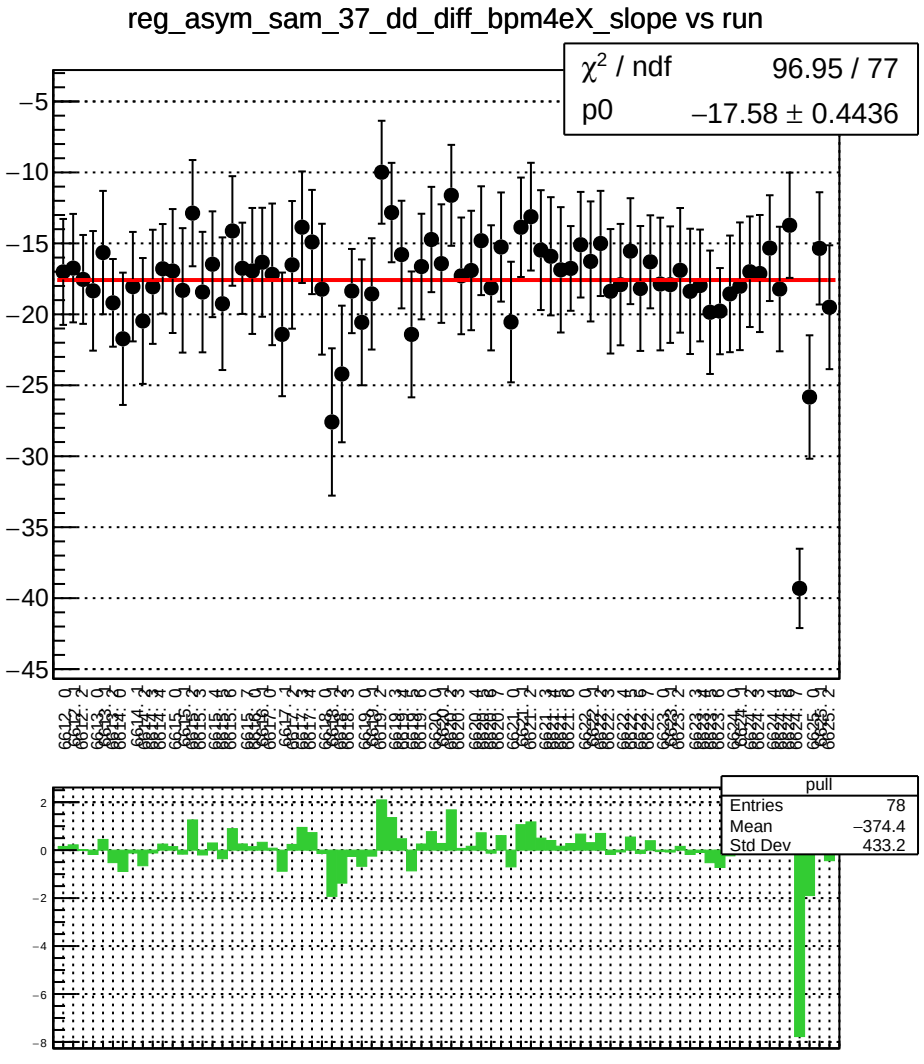

pull1D
Entries 78
Mean 0.002503
Std Dev 0.3894

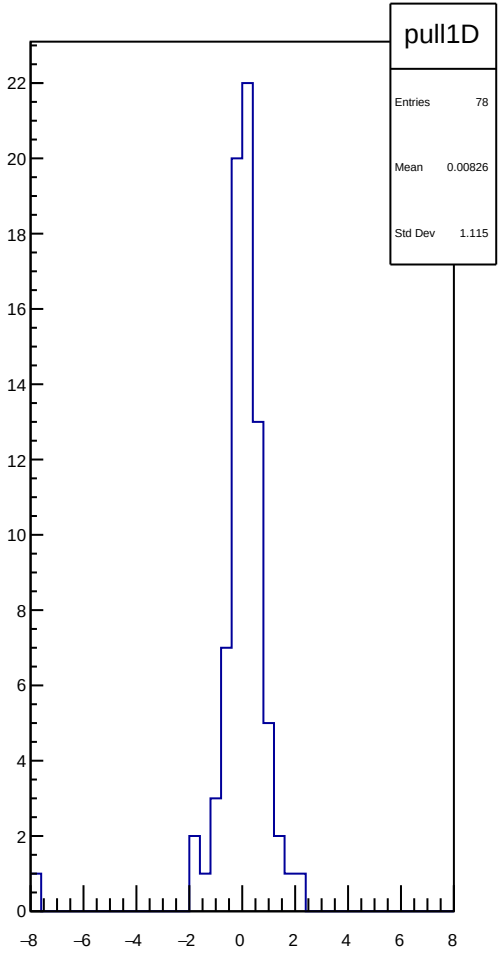

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 3.453 / 77
p0 0.4341± 0.03318
pull
Entries 78
Mean −485.6
Std Dev 515.3
pull1D
Entries 78
Mean −0.001738
Std Dev 0.2104

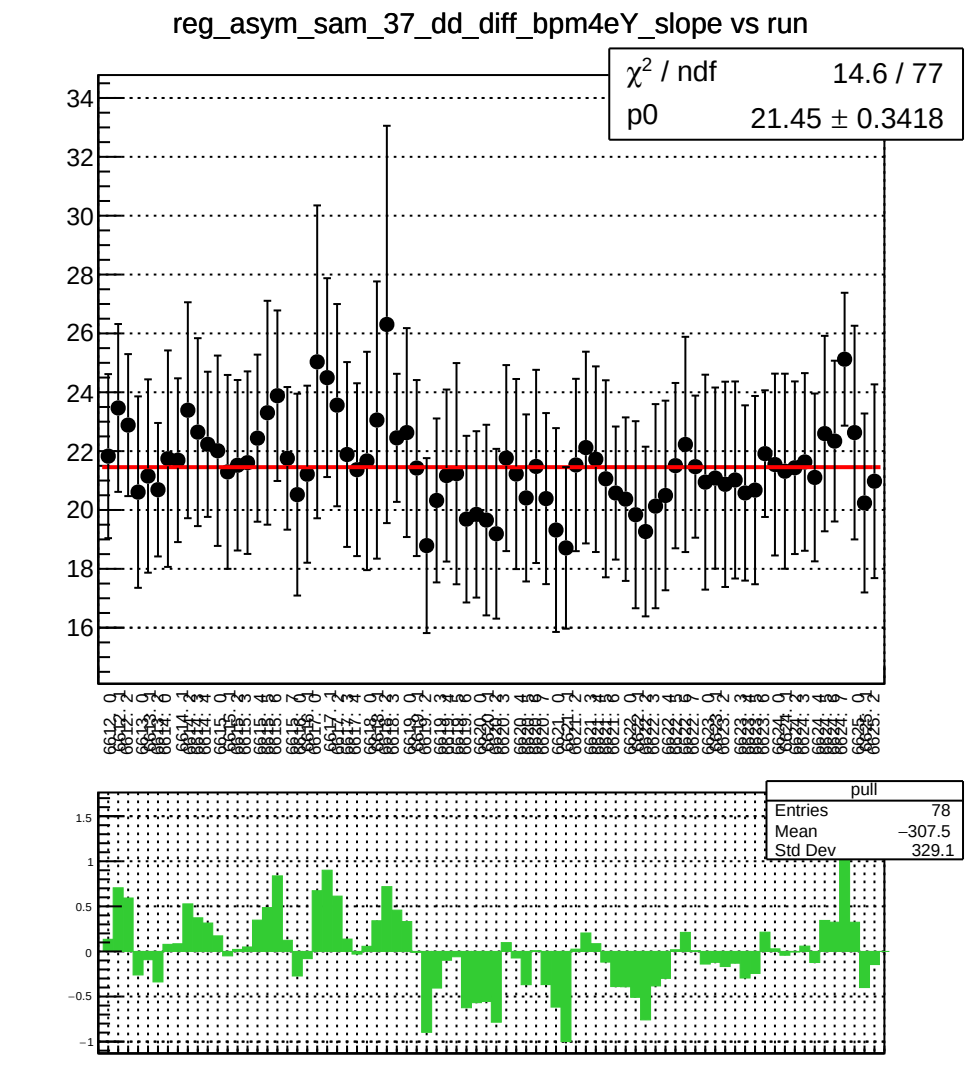

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 93.83 / 77
p0 −27.86 ± 0.416
pull
Entries 78
Mean −125.9
Std Dev 181.5
pull1D
Entries 78
Mean −0.135
Std Dev 0.5778

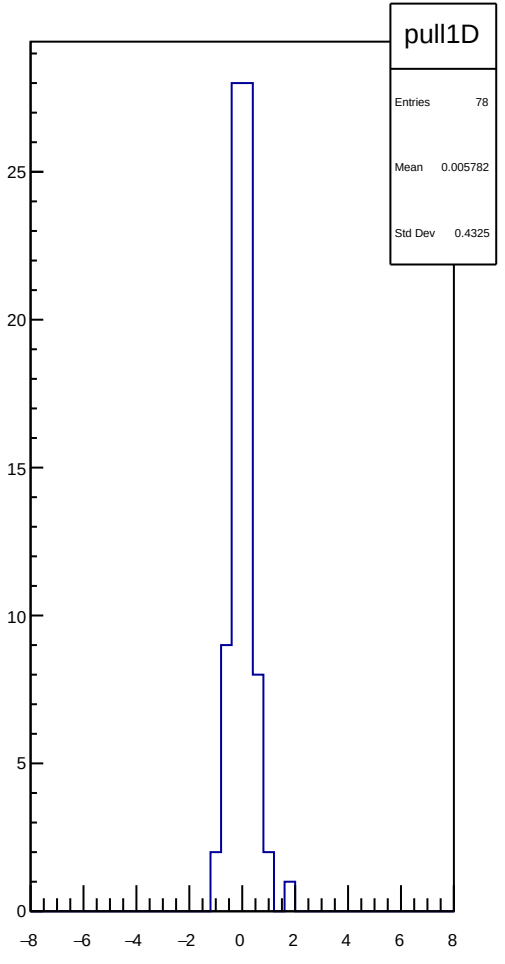

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.66 / 77
p0 −9.025 ± 0.2835
pull
Entries 78
Mean −96.62
Std Dev 112.4

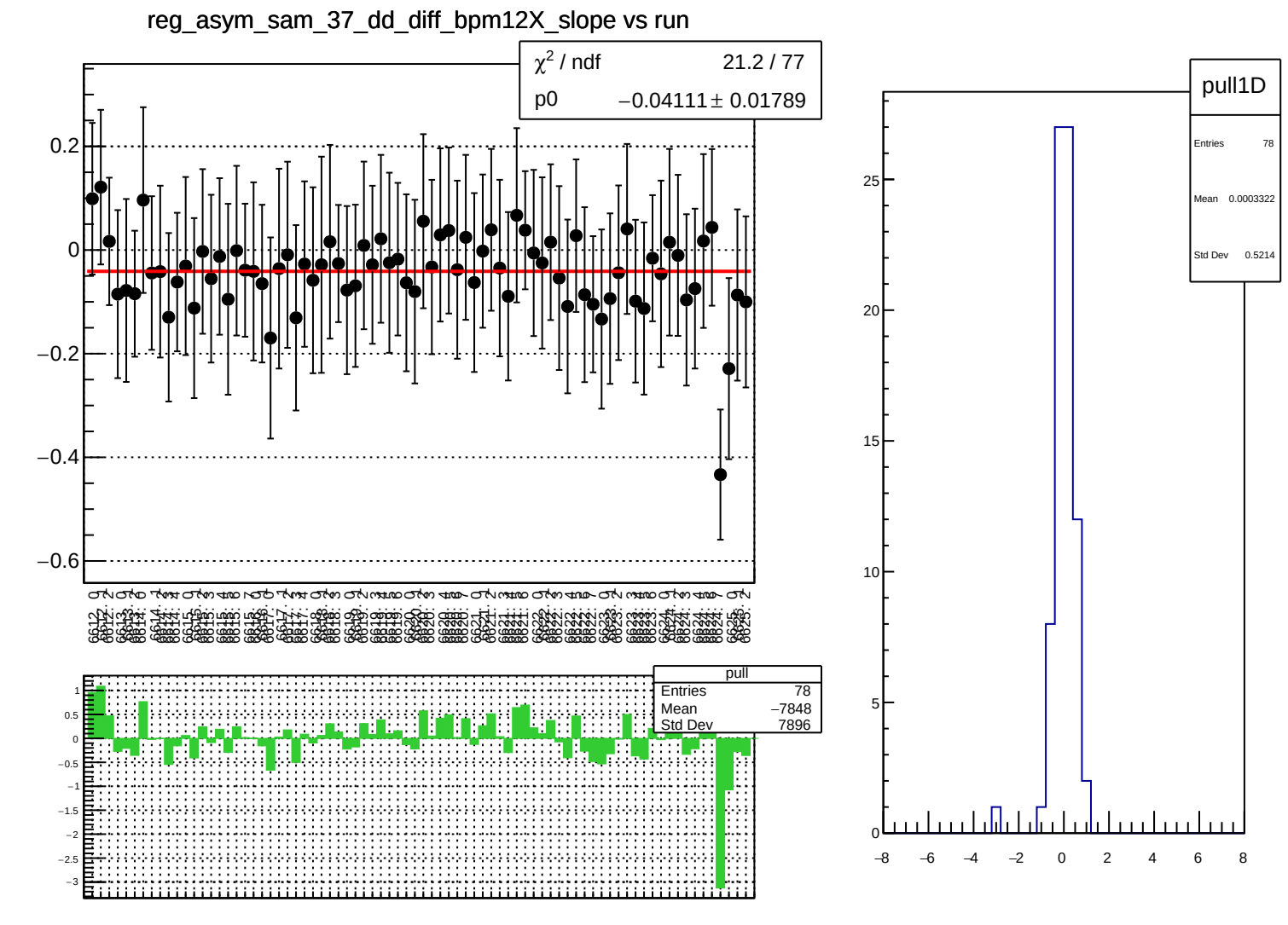

pull1D
Entries 78
Mean −0.01164
Std Dev 0.4027

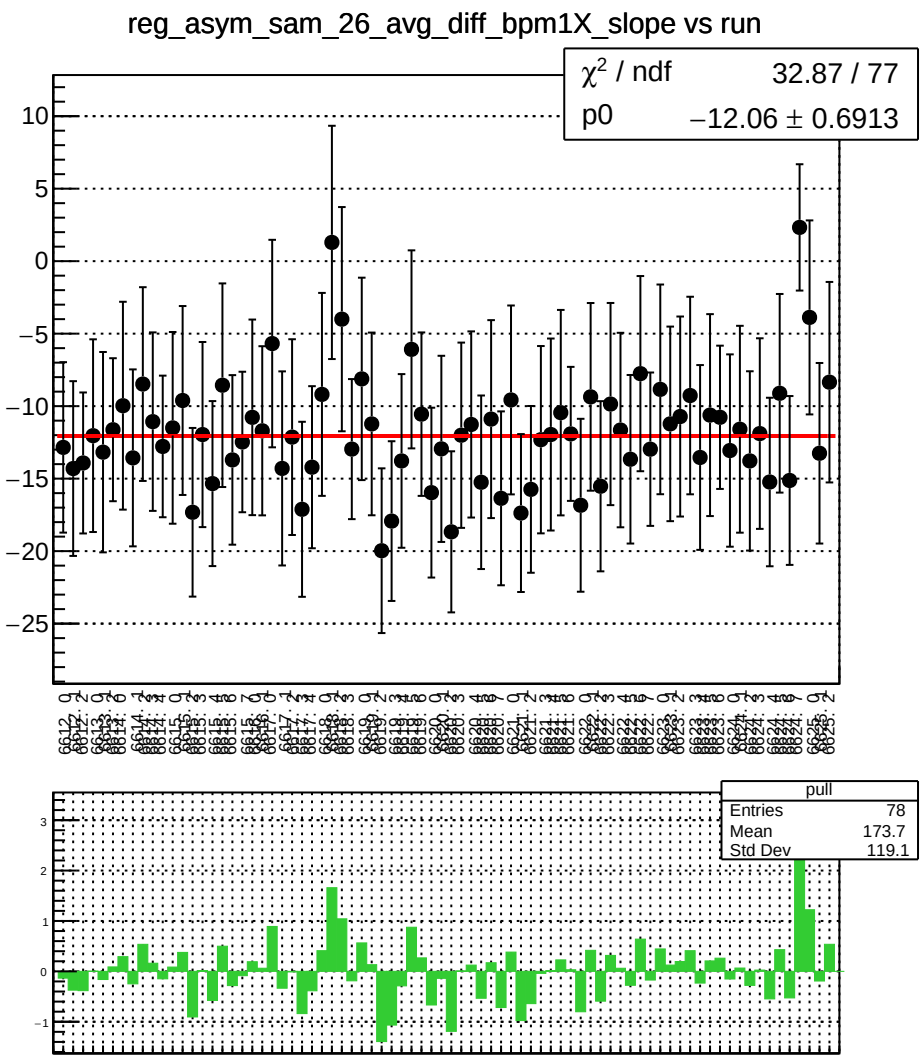

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.95 / 77
p0 −17.58 ± 0.4436
pull
Entries 78
Mean −374.4
Std Dev 433.2

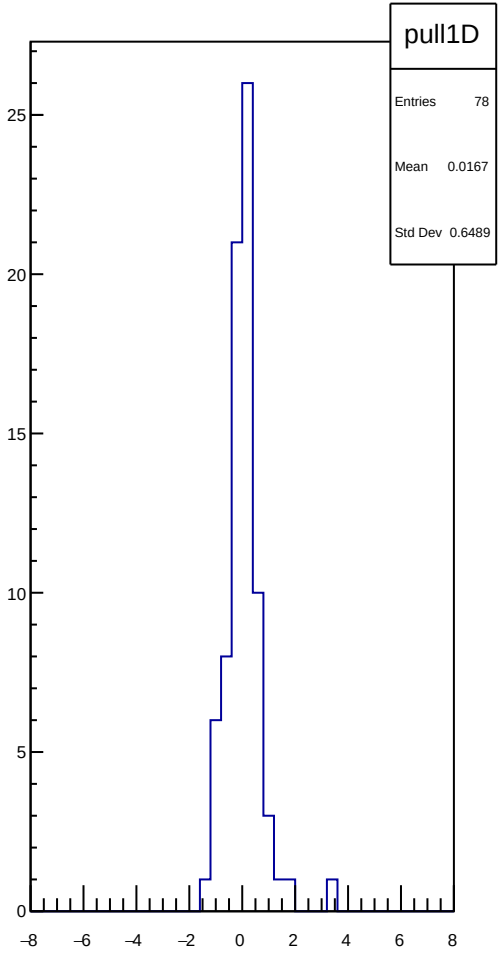

pull1D
Entries 78
Mean 0.00826
Std Dev 1.115

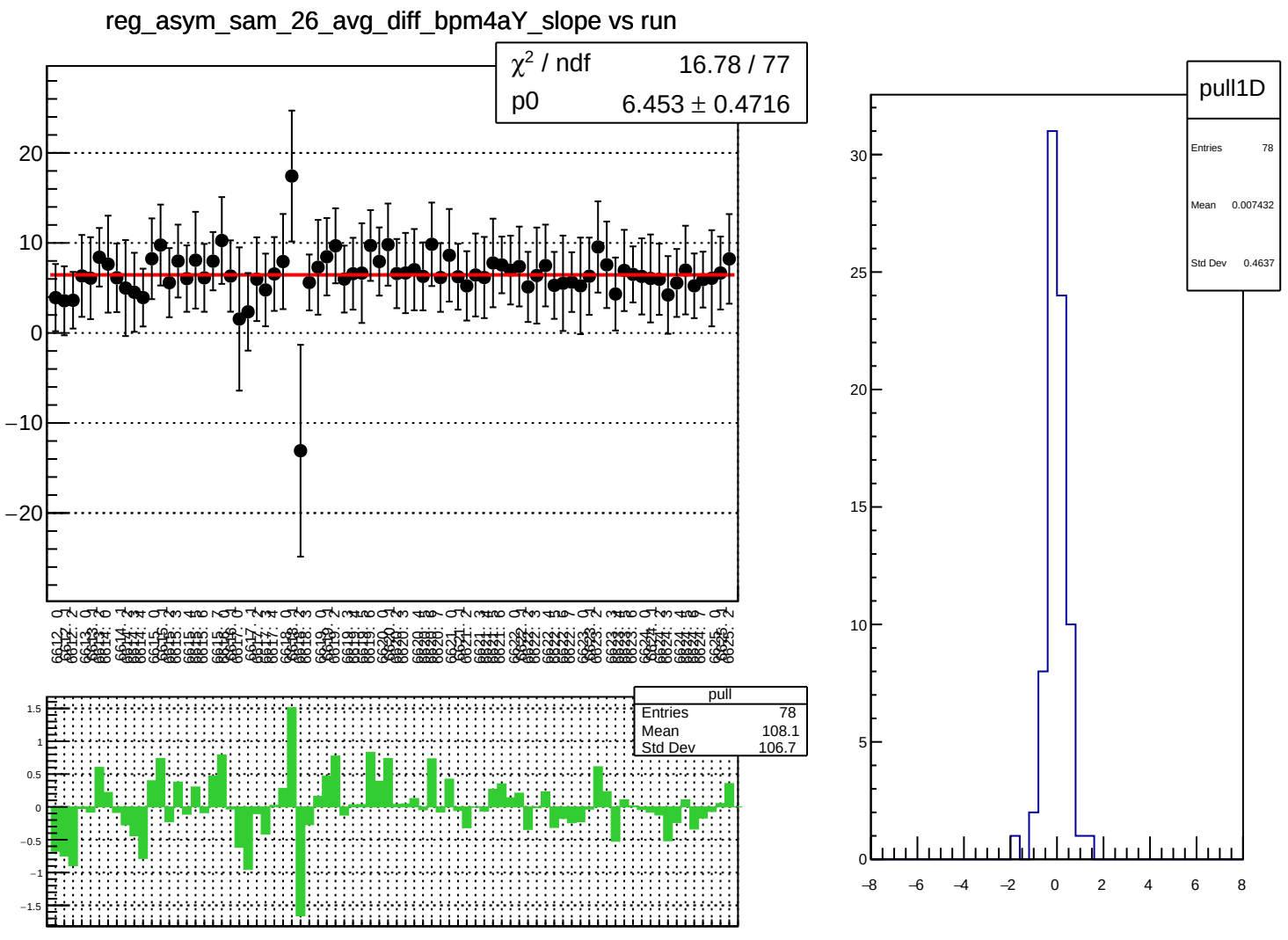

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.6 / 77
p0 21.45 ± 0.3418
pull
Entries 78
Mean −307.5
Std Dev 329.1

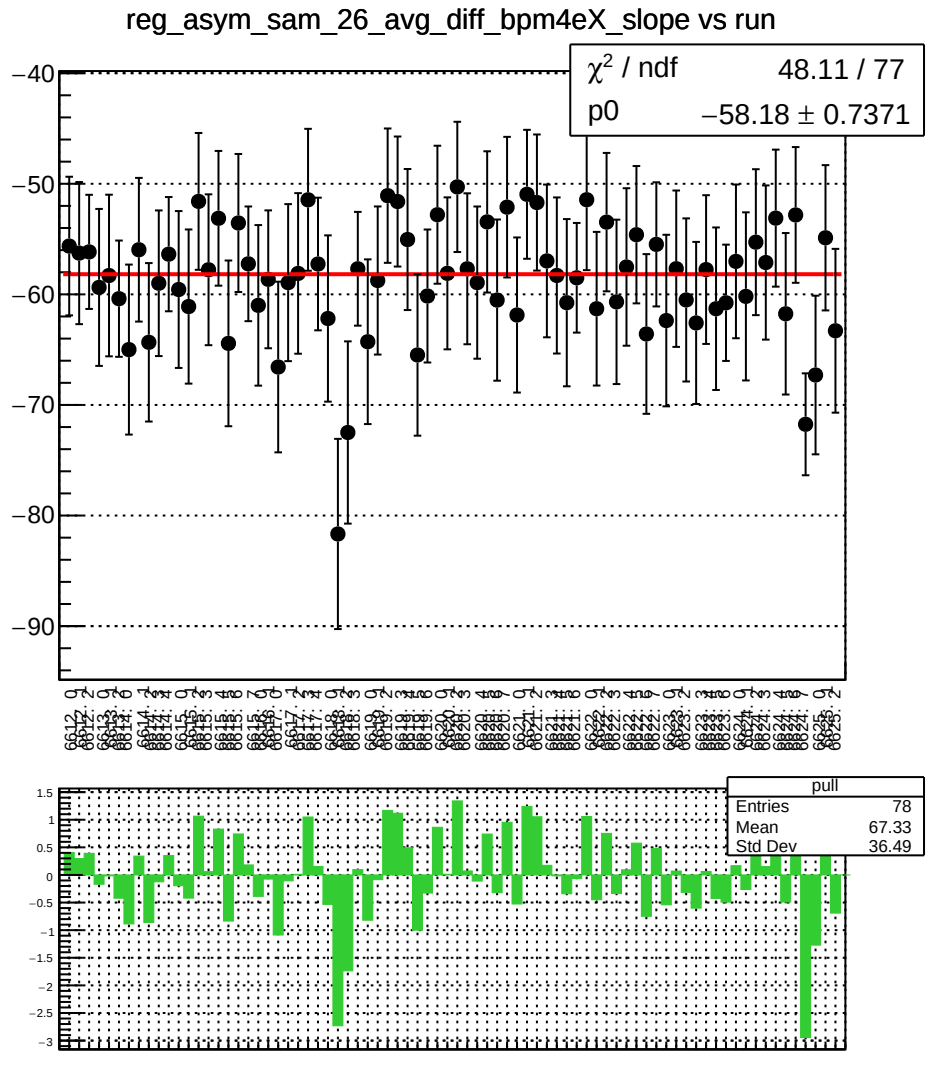

pull1D
Entries 78
Mean 0.005782
Std Dev 0.4325

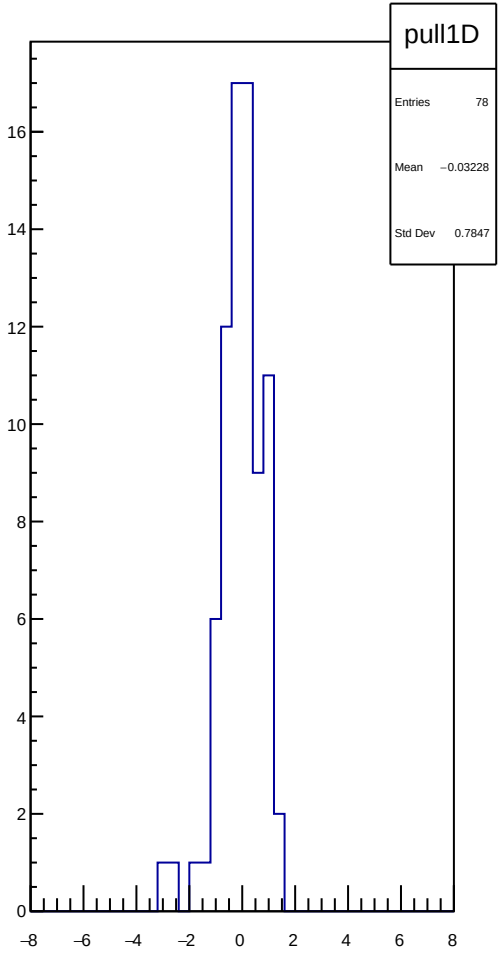

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 21.2 / 77
p0 −0.04111 ± 0.01789
0.2
0
−0.2
−0.4
−0.6
pull
Entries 78
Mean −7848
Std Dev 7896
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 78
Mean 0.0003322
Std Dev 0.5214
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

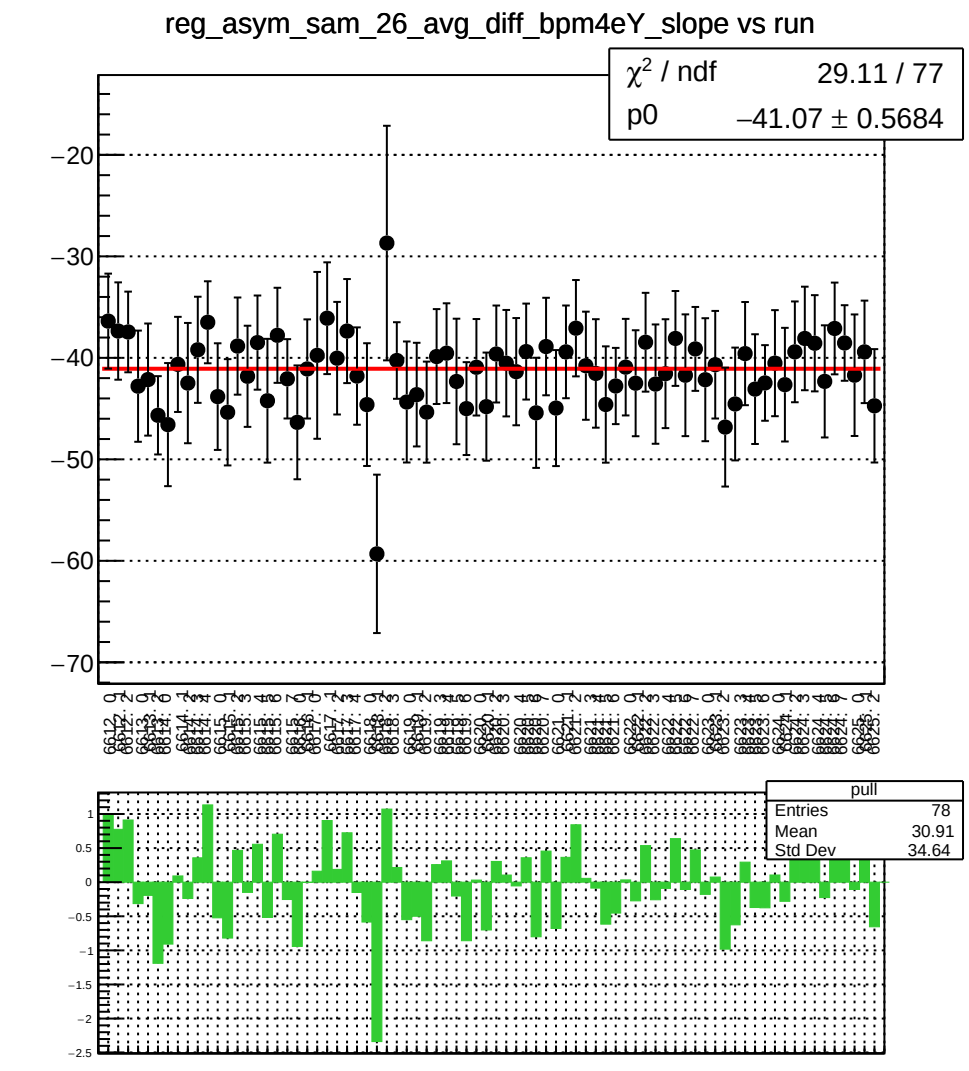

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 32.87 / 77
p0 −12.06 ± 0.6913
pull
Entries 78
Mean 173.7
Std Dev 119.1

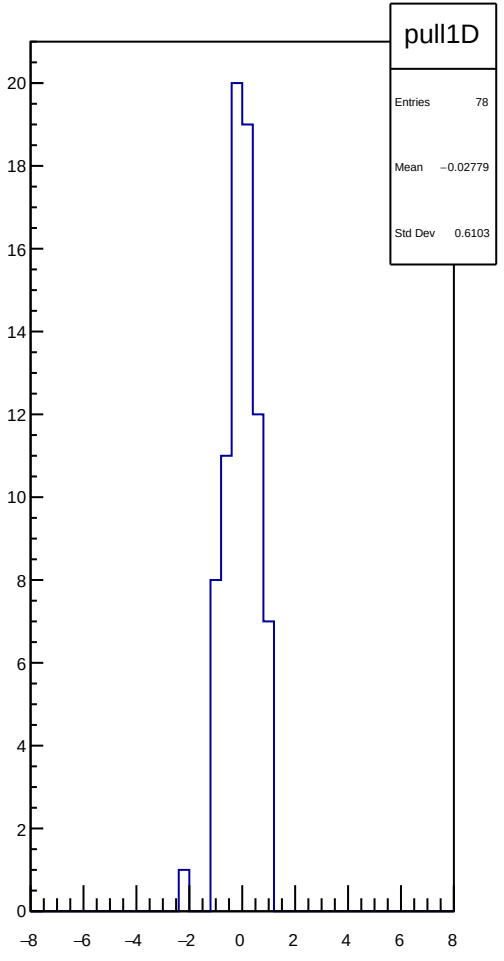

pull1D
Entries 78
Mean 0.0167
Std Dev 0.6489

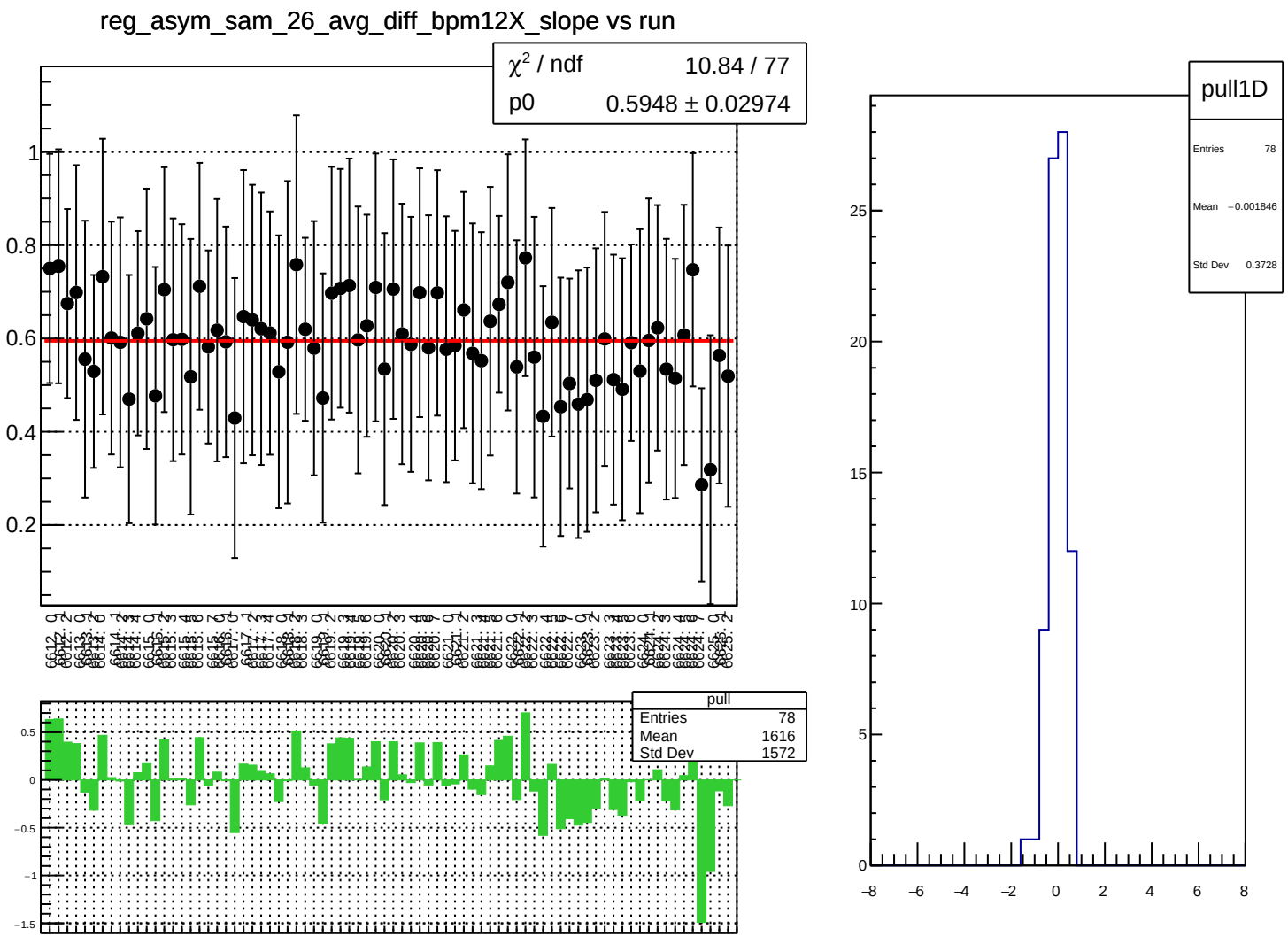

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.78 / 77
p0 6.453 ± 0.4716
pull
Entries 78
Mean 108.1
Std Dev 106.7
pull1D
Entries 78
Mean 0.007432
Std Dev 0.4637

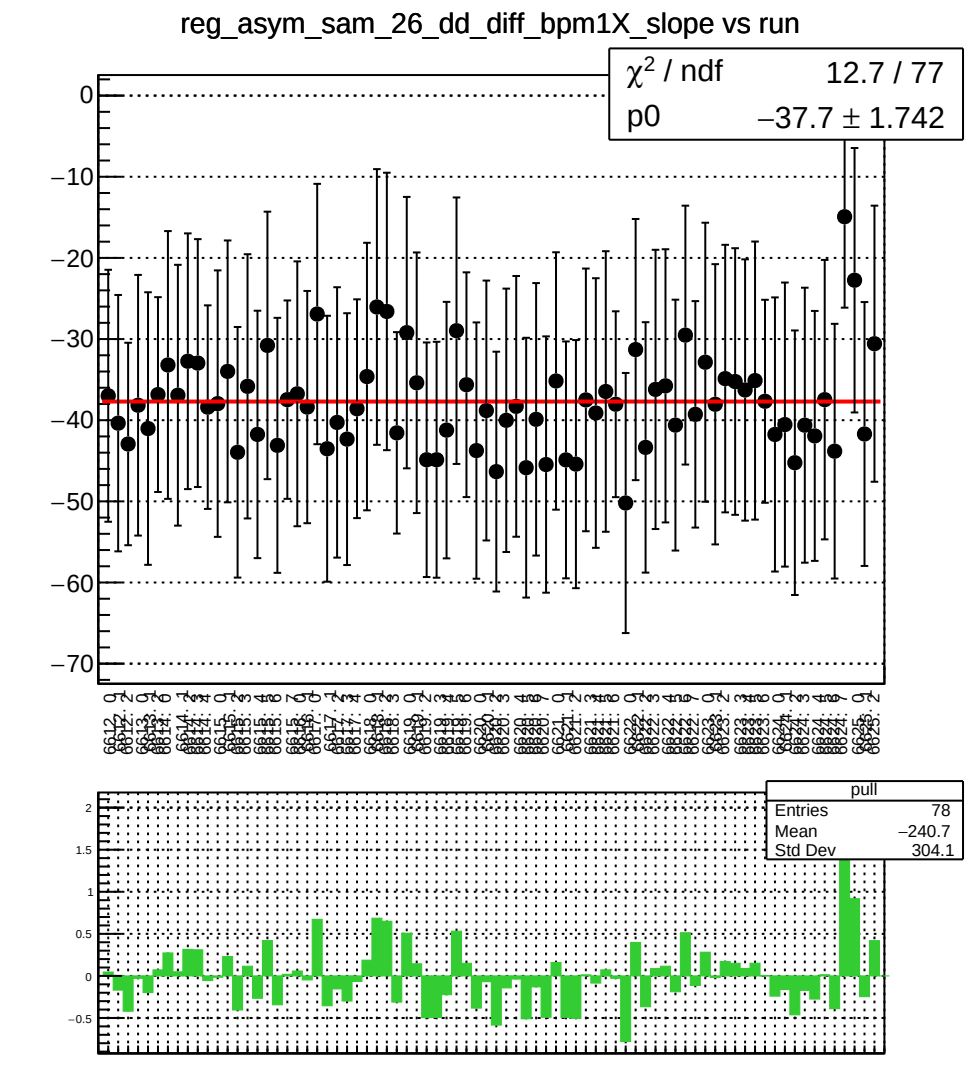

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 48.11 / 77
p0 −58.18 ± 0.7371
pull
Entries 78
Mean 67.33
Std Dev 36.49

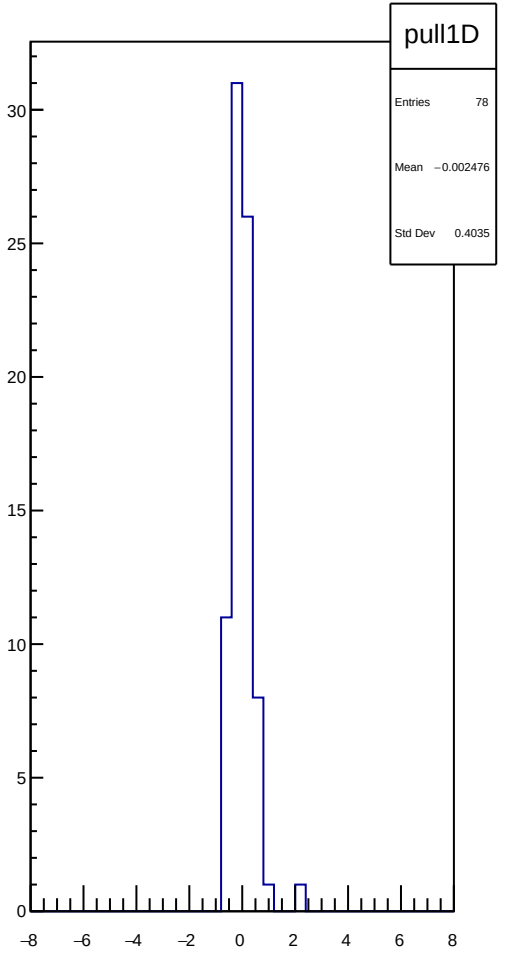

pull1D
Entries 78
Mean −0.03228
Std Dev 0.7847

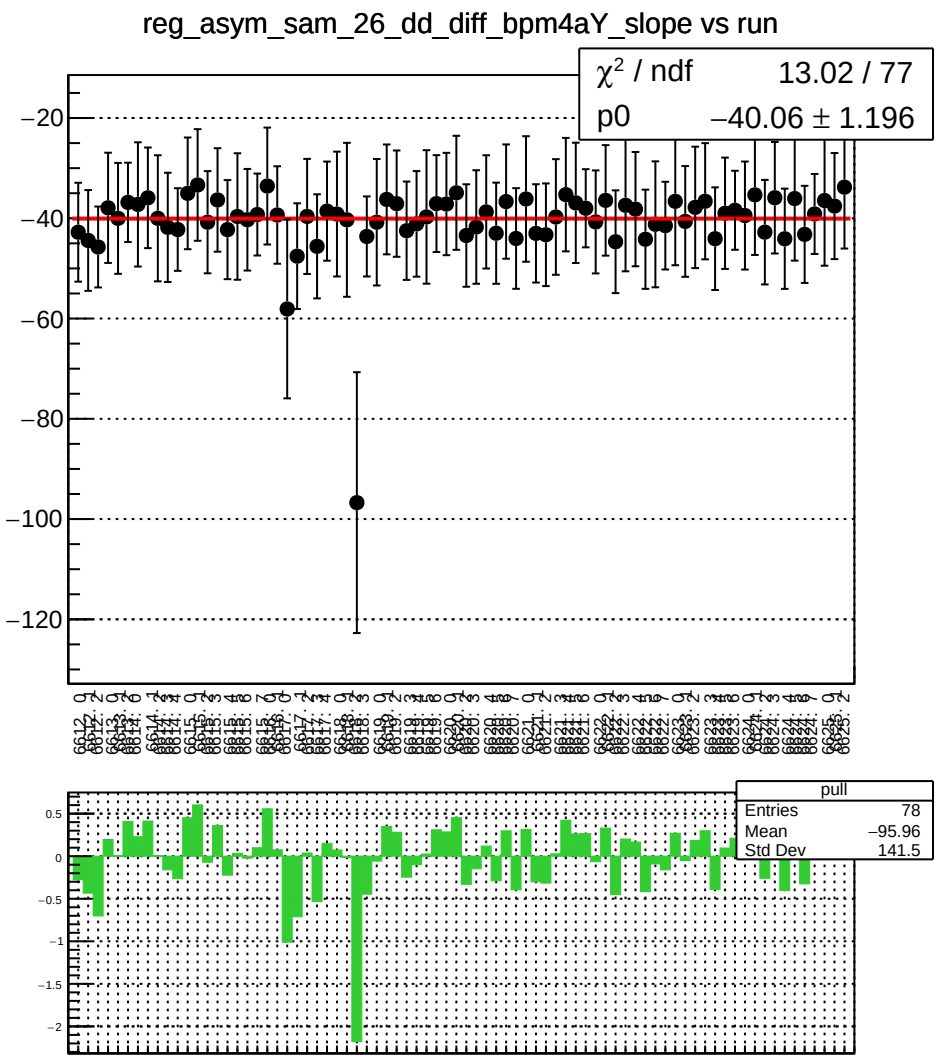

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.11 / 77
p0 −41.07 ± 0.5684
pull
Entries 78
Mean 30.91
Std Dev 34.64

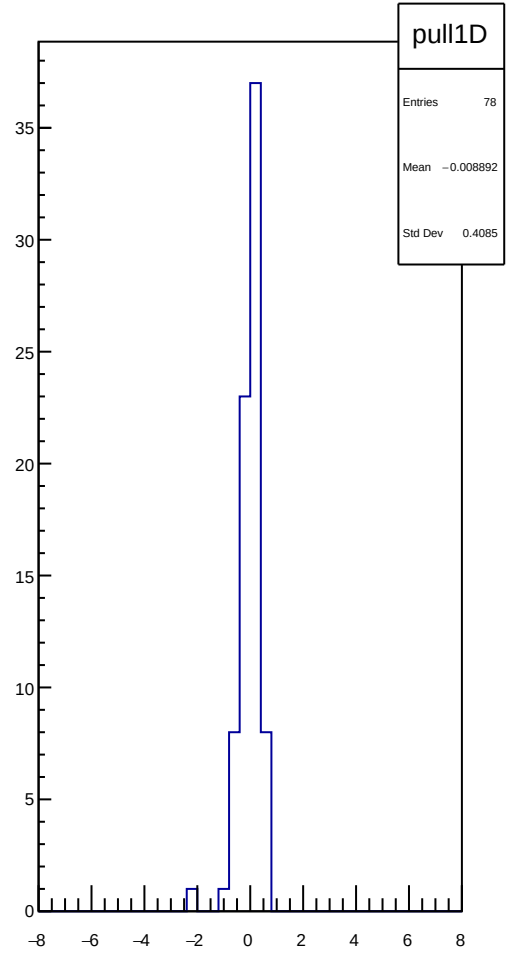

pull1D
Entries 78
Mean −0.02779
Std Dev 0.6103

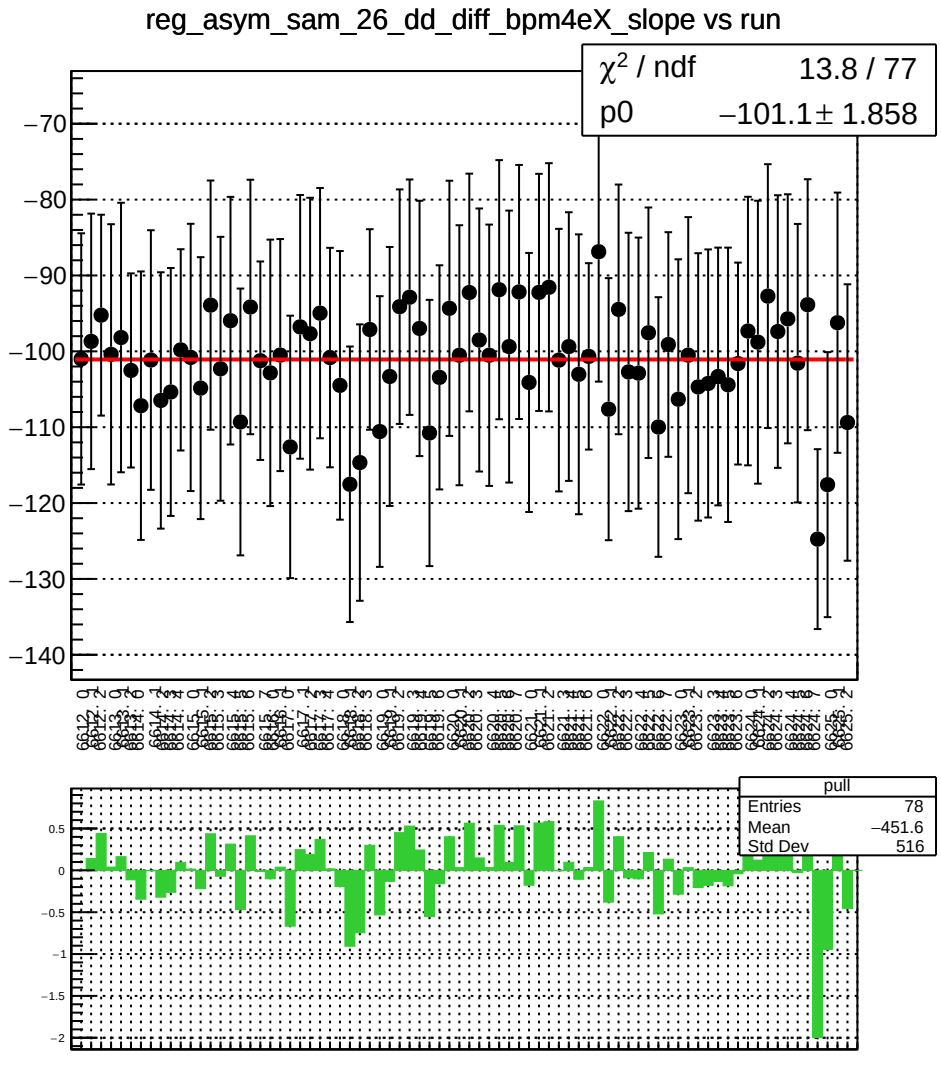

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 10.84 / 77
p0 0.5948 ± 0.02974
pull
Entries 78
Mean 1616
Std Dev 1572
pull1D
Entries 78
Mean −0.001846
Std Dev 0.3728

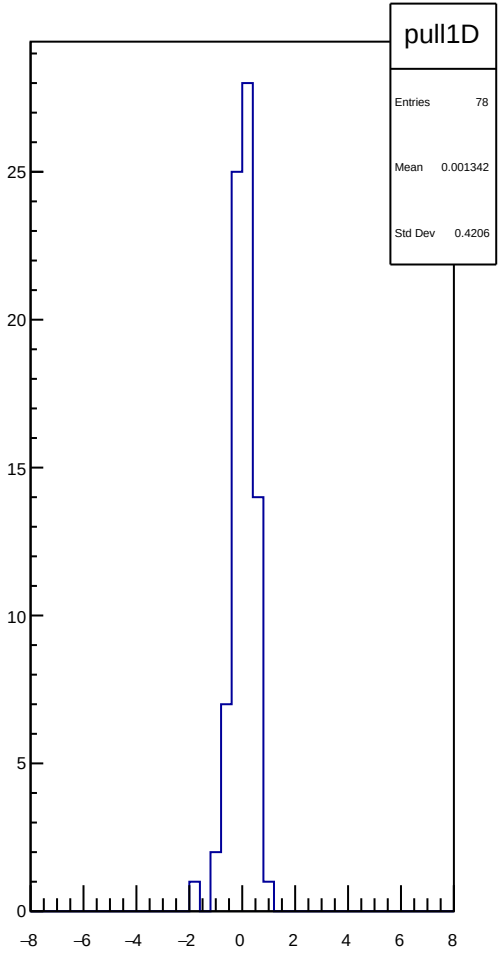

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 12.7 / 77
p0 −37.7 ± 1.742
pull
Entries 78
Mean −240.7
Std Dev 304.1

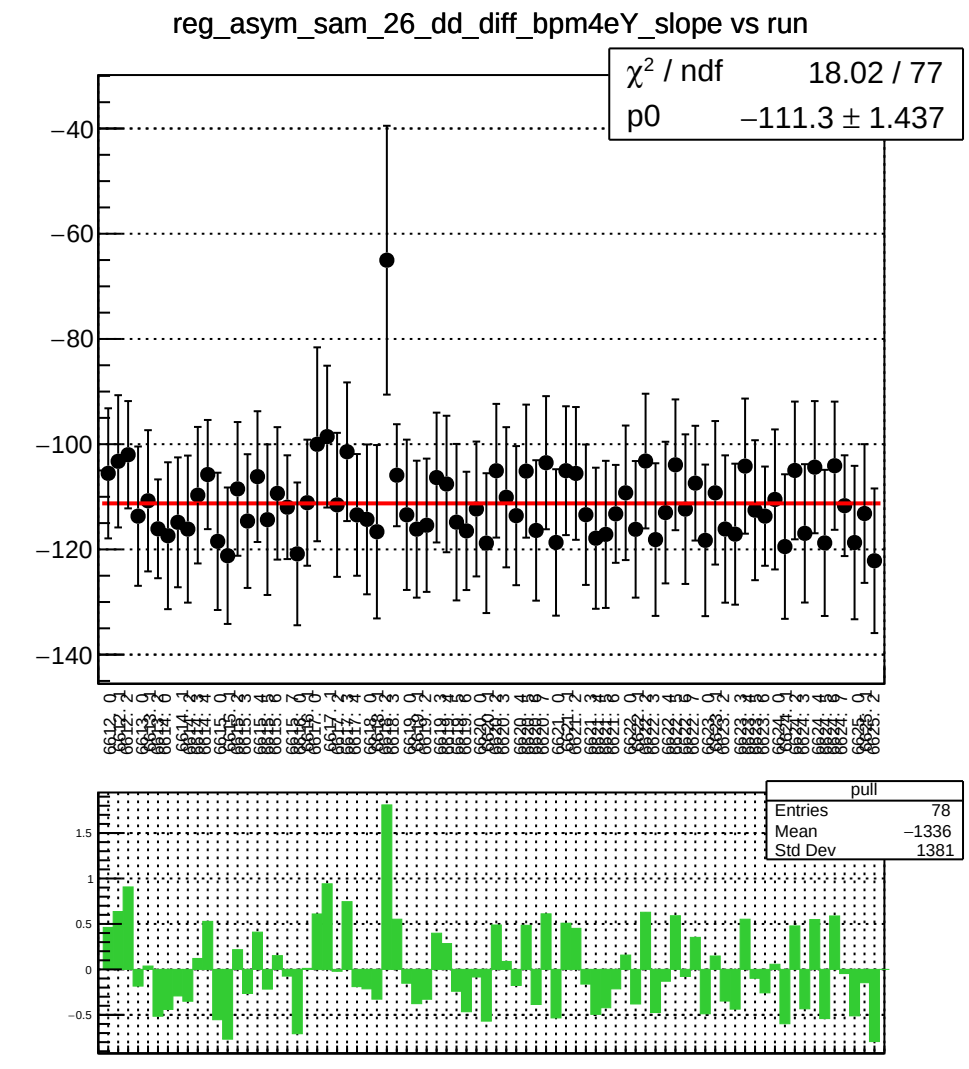

pull1D
Entries 78
Mean −0.002476
Std Dev 0.4035

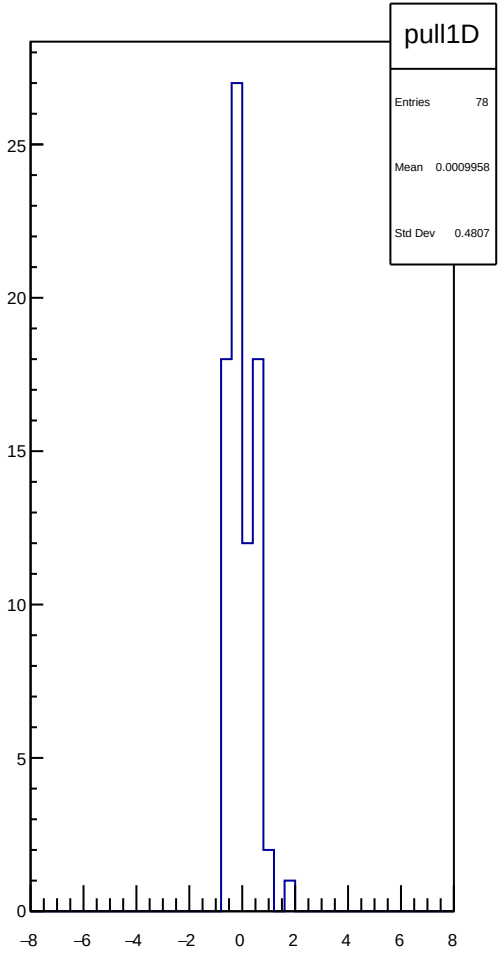

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.02 / 77
p0 −40.06 ± 1.196
pull
Entries 78
Mean −95.96
Std Dev 141.5

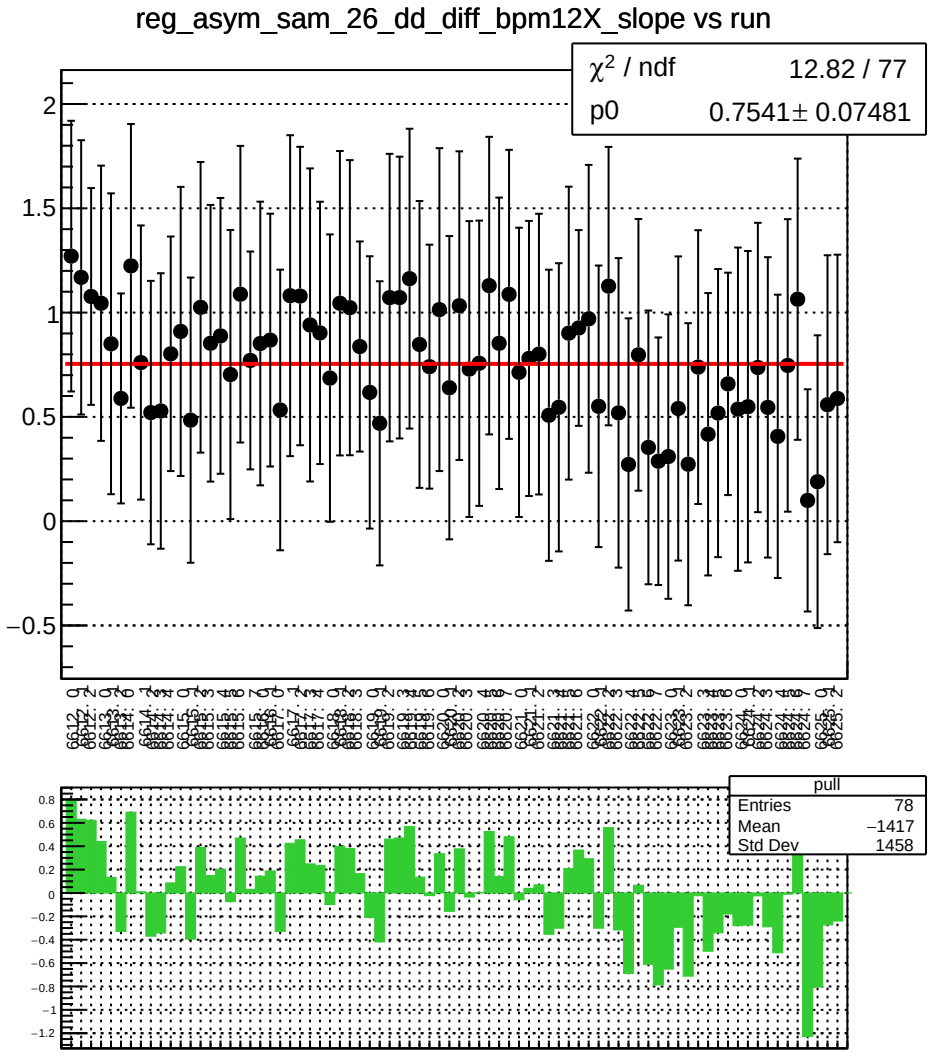

pull1D
Entries 78
Mean −0.008892
Std Dev 0.4085

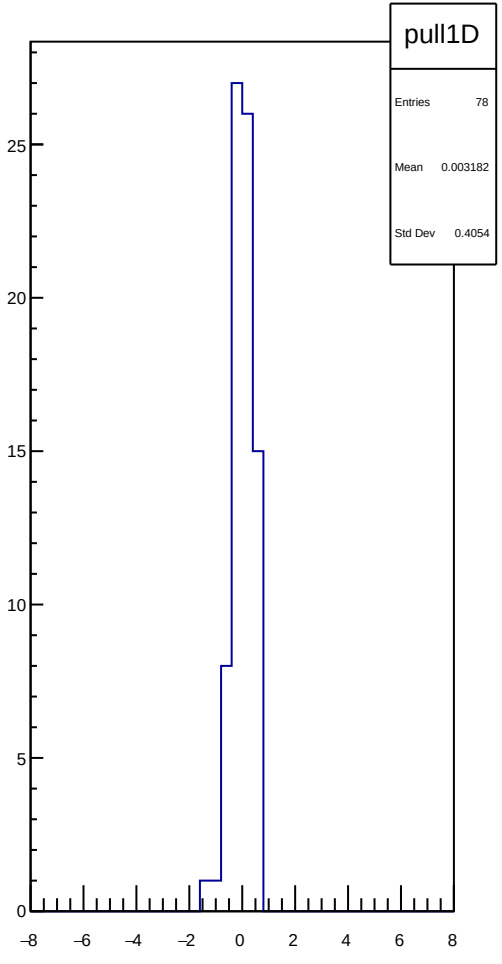

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.8 / 77
p0 −101.1± 1.858
pull
Entries 78
Mean −451.6
Std Dev 516

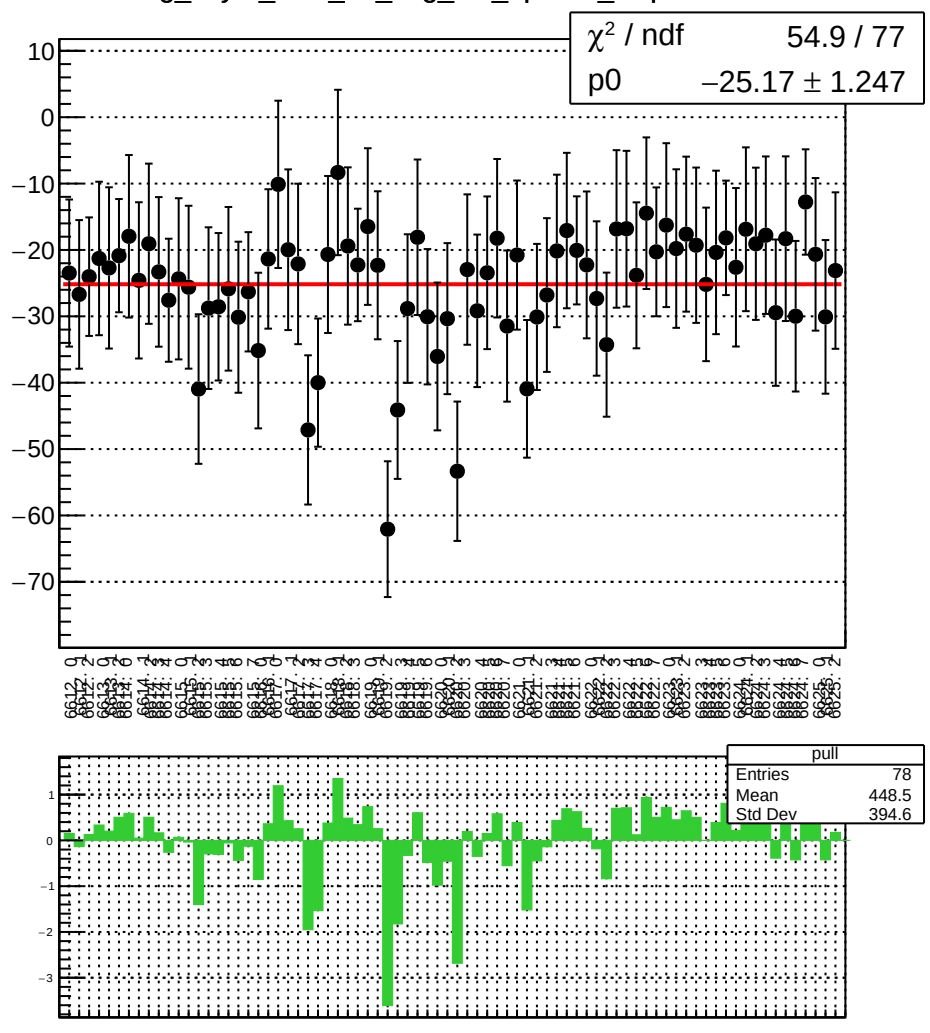

pull1D
Entries 78
Mean 0.001342
Std Dev 0.4206

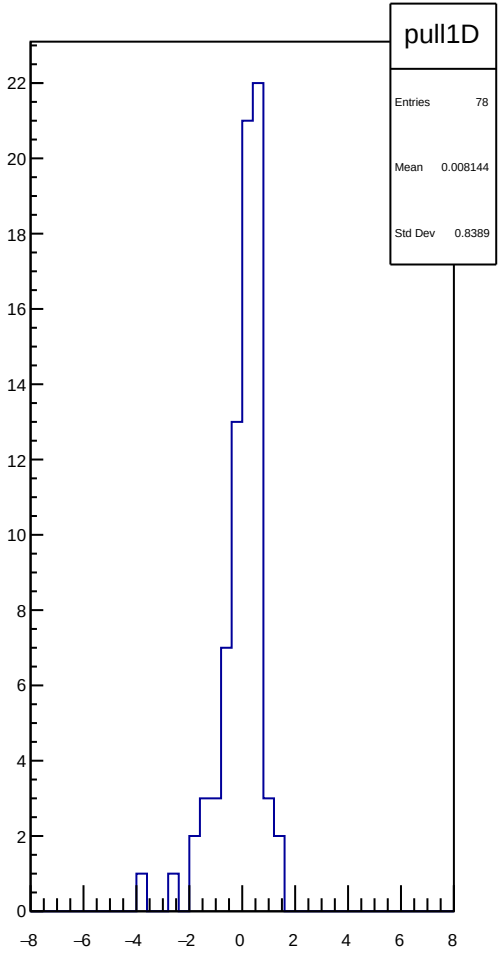

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.02 / 77
p0 −111.3 ± 1.437
pull
Entries 78
Mean −1336
Std Dev 1381

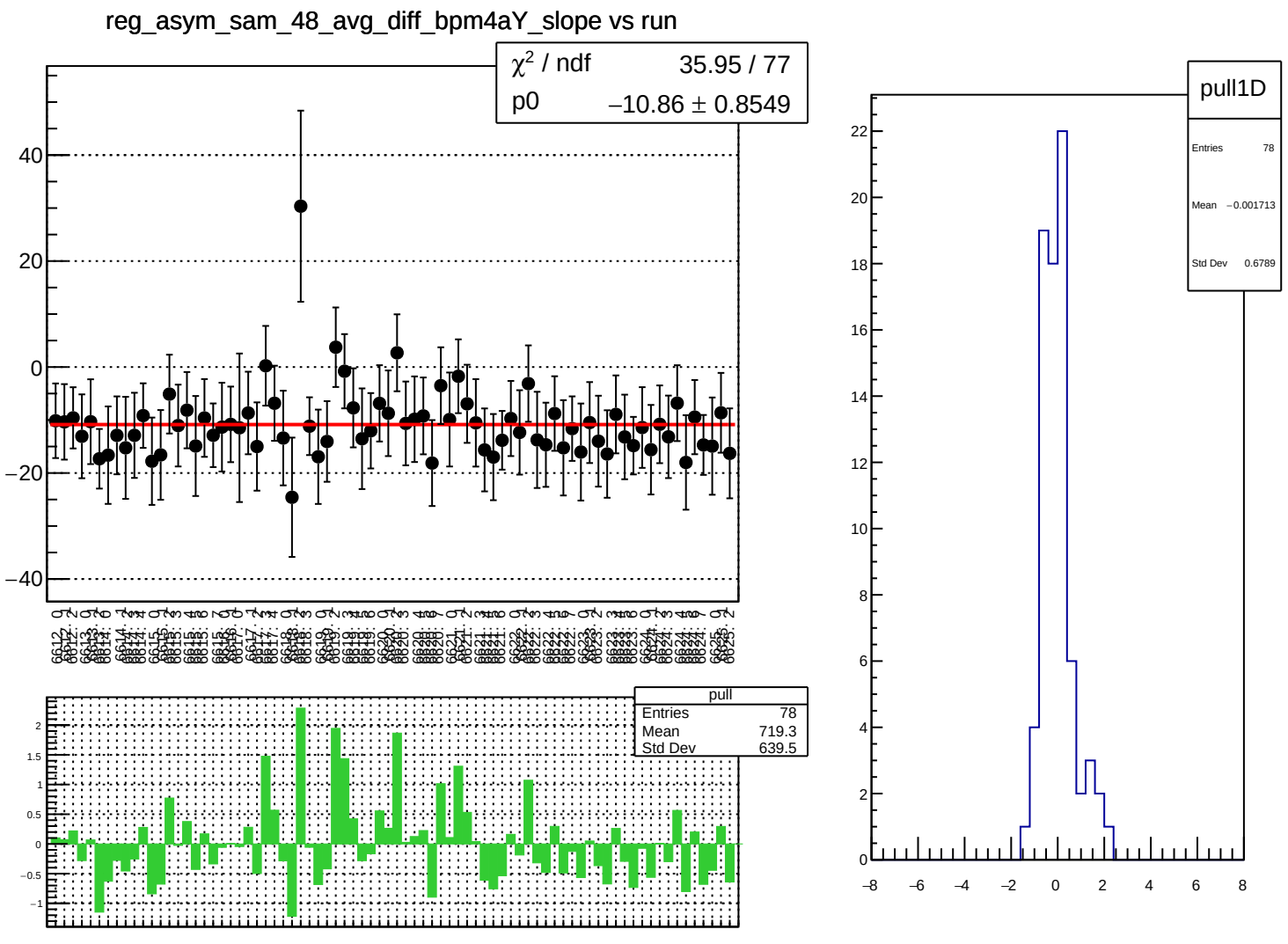

pull1D
Entries 78
Mean 0.0009958
Std Dev 0.4807

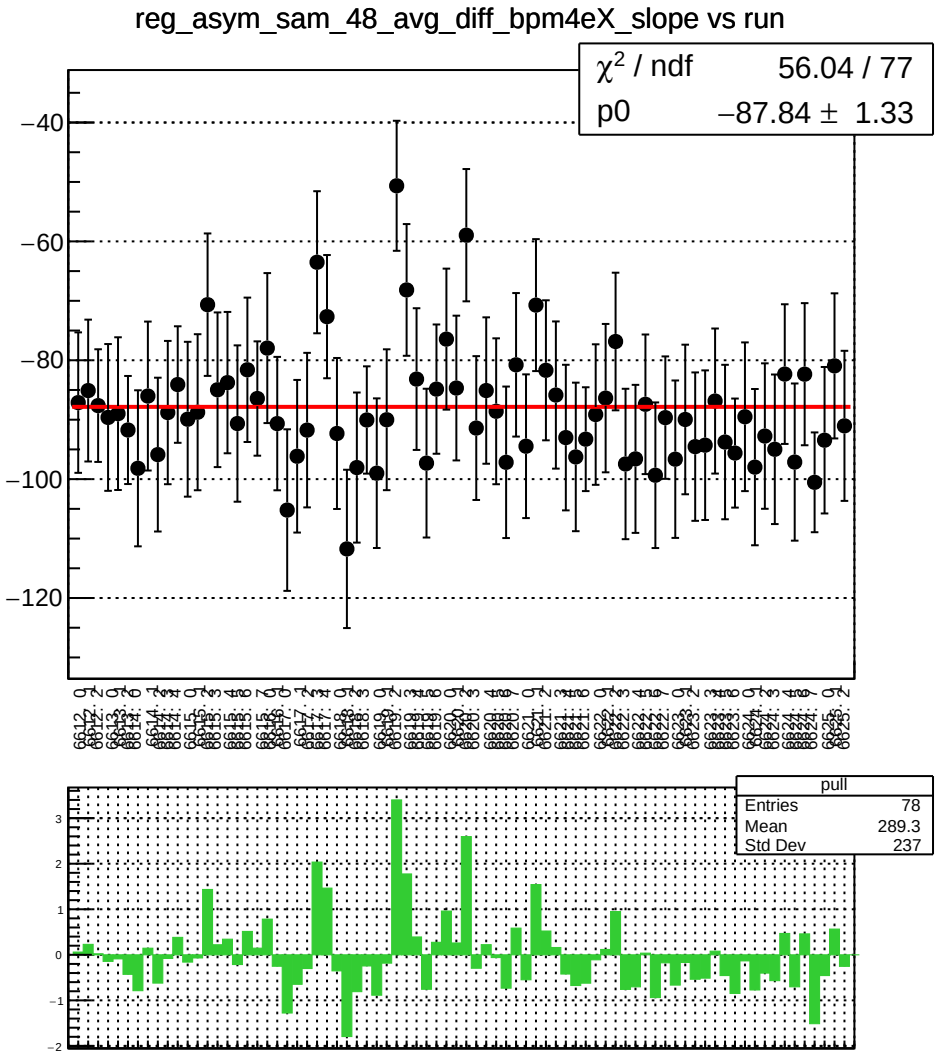

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.82 / 77
p0 0.7541± 0.07481
pull
Entries 78
Mean −1417
Std Dev 1458

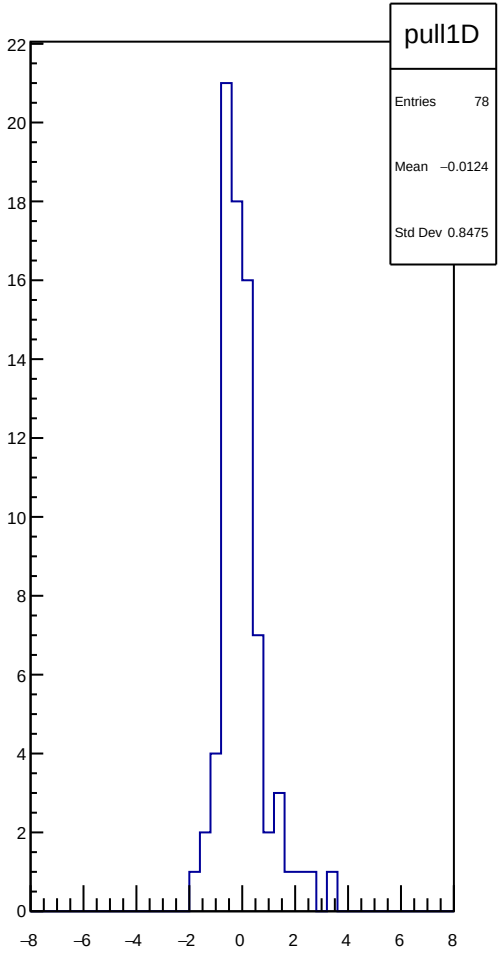

pull1D
Entries 78
Mean 0.003182
Std Dev 0.4054

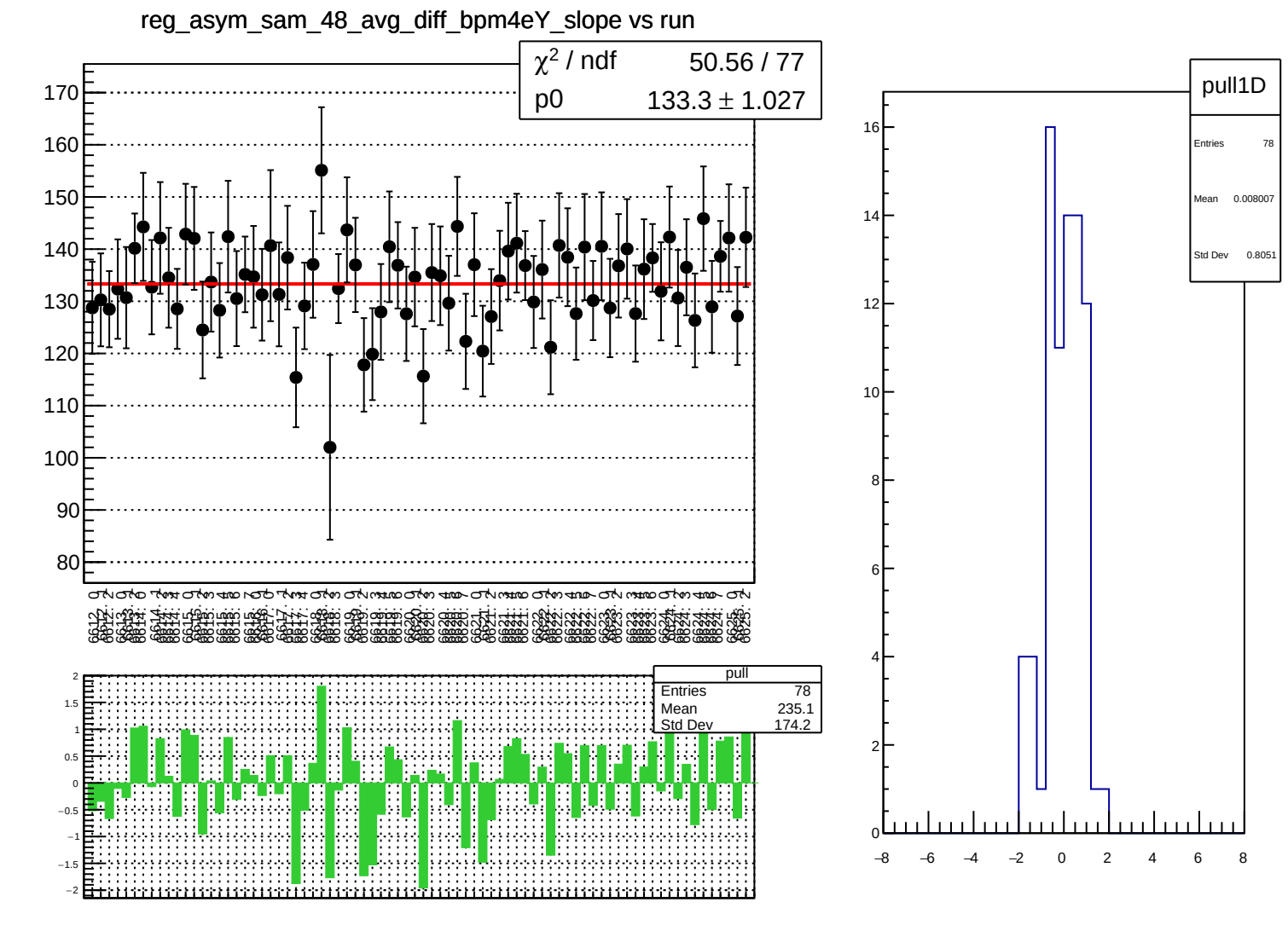

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 54.9 / 77
p0 −25.17 ± 1.247
pull
Entries 78
Mean 448.5
Std Dev 394.6

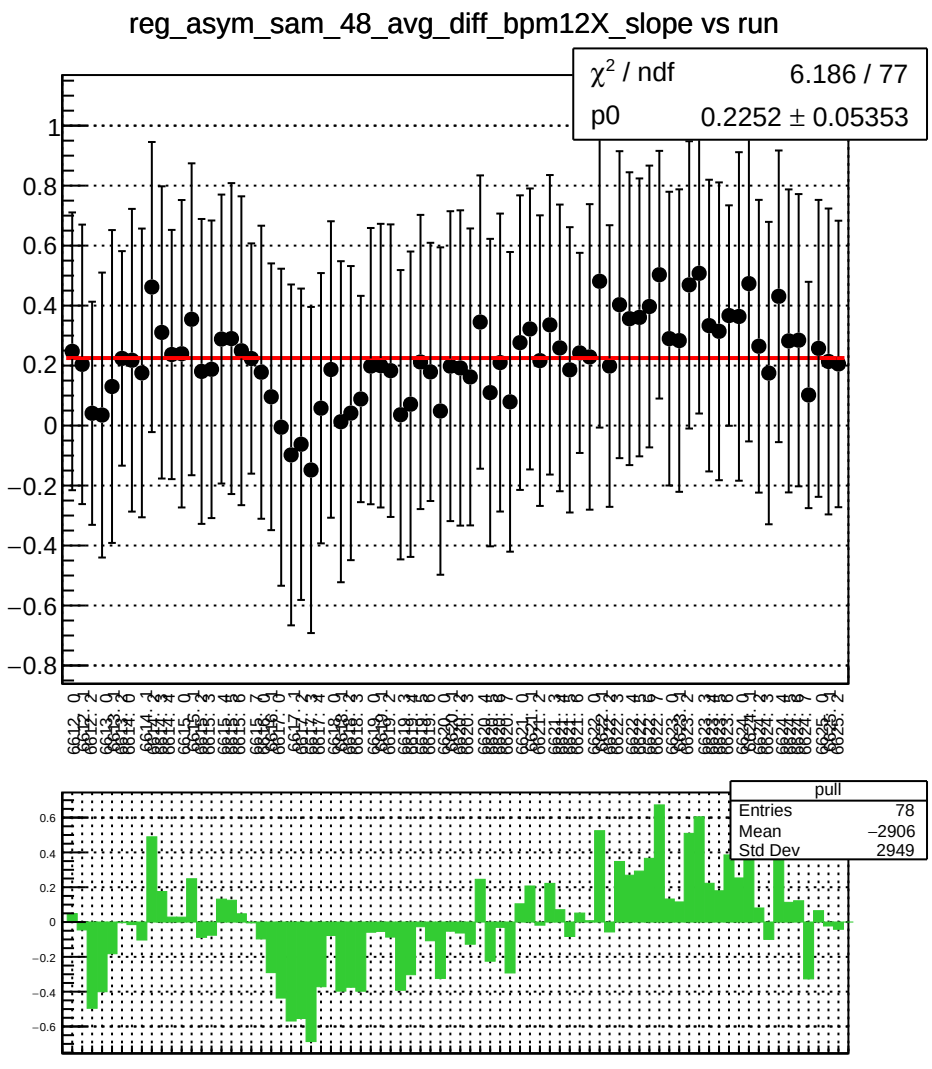

pull1D
Entries 78
Mean 0.008144
Std Dev 0.8389

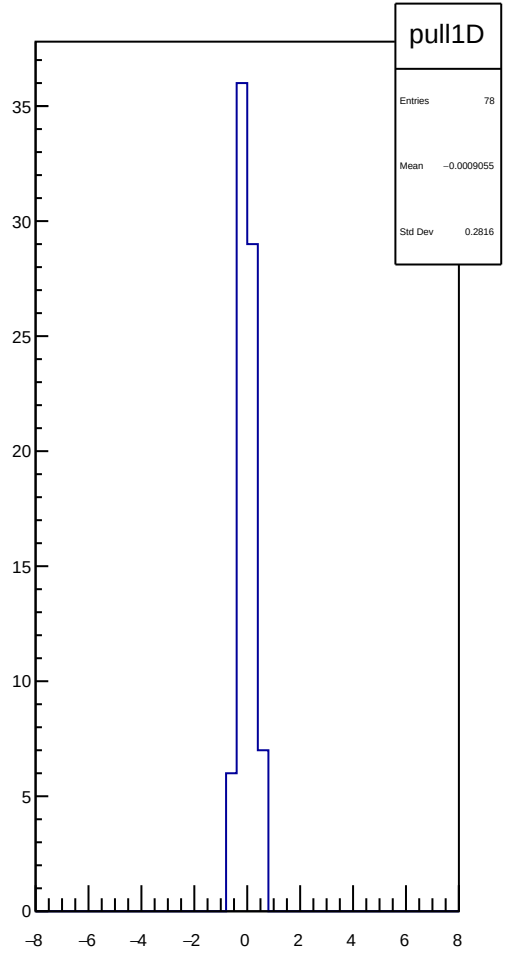

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.95 / 77
p0 −10.86 ± 0.8549
pull
Entries 78
Mean 719.3
Std Dev 639.5
pull1D
Entries 78
Mean −0.001713
Std Dev 0.6789

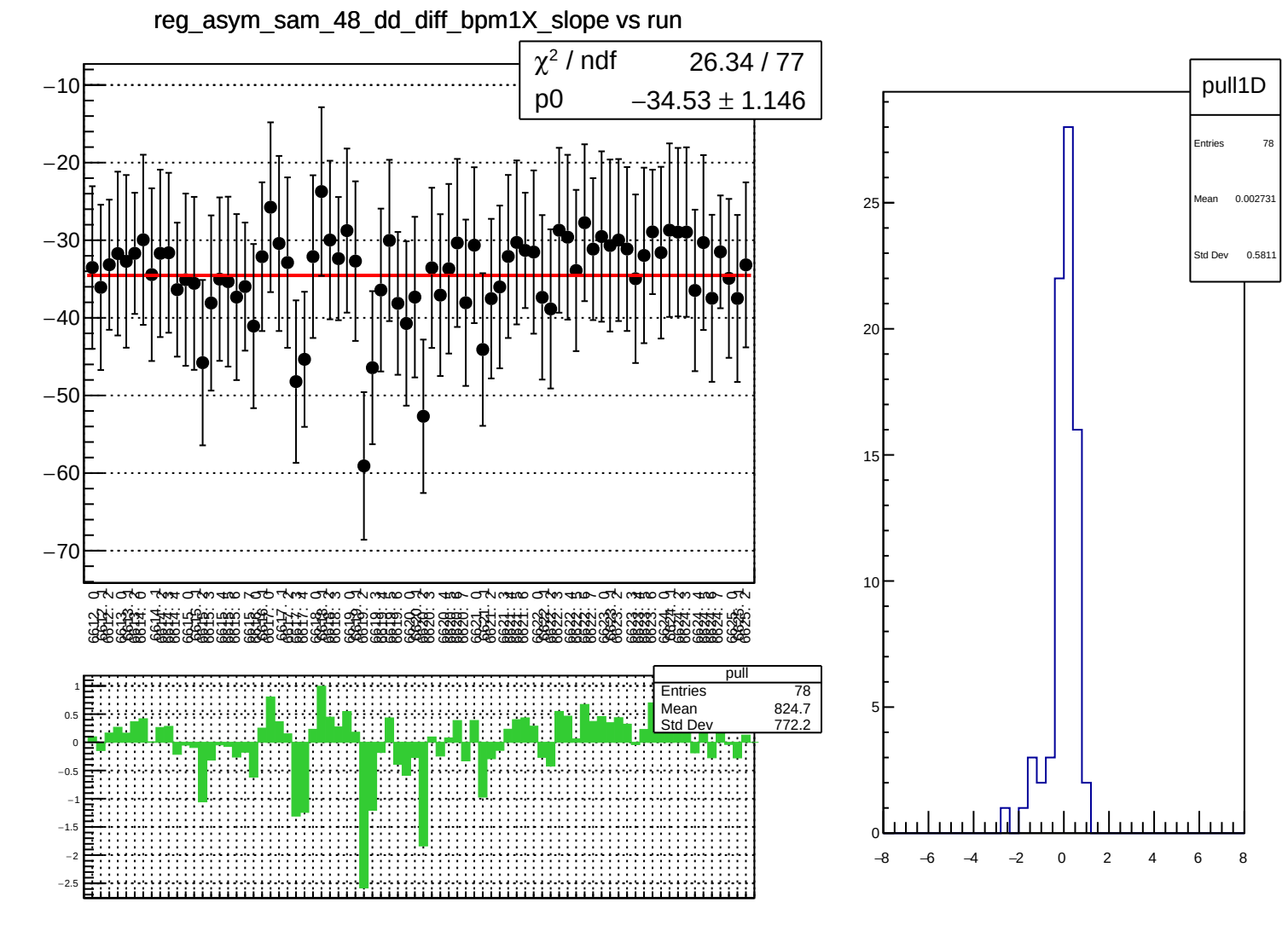

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.04 / 77
p0 −87.84 ± 1.33
−40
−60
−80
−100
−120
pull
Entries 78
Mean 289.3
Std Dev 237
3
2
1
0
−1
−2

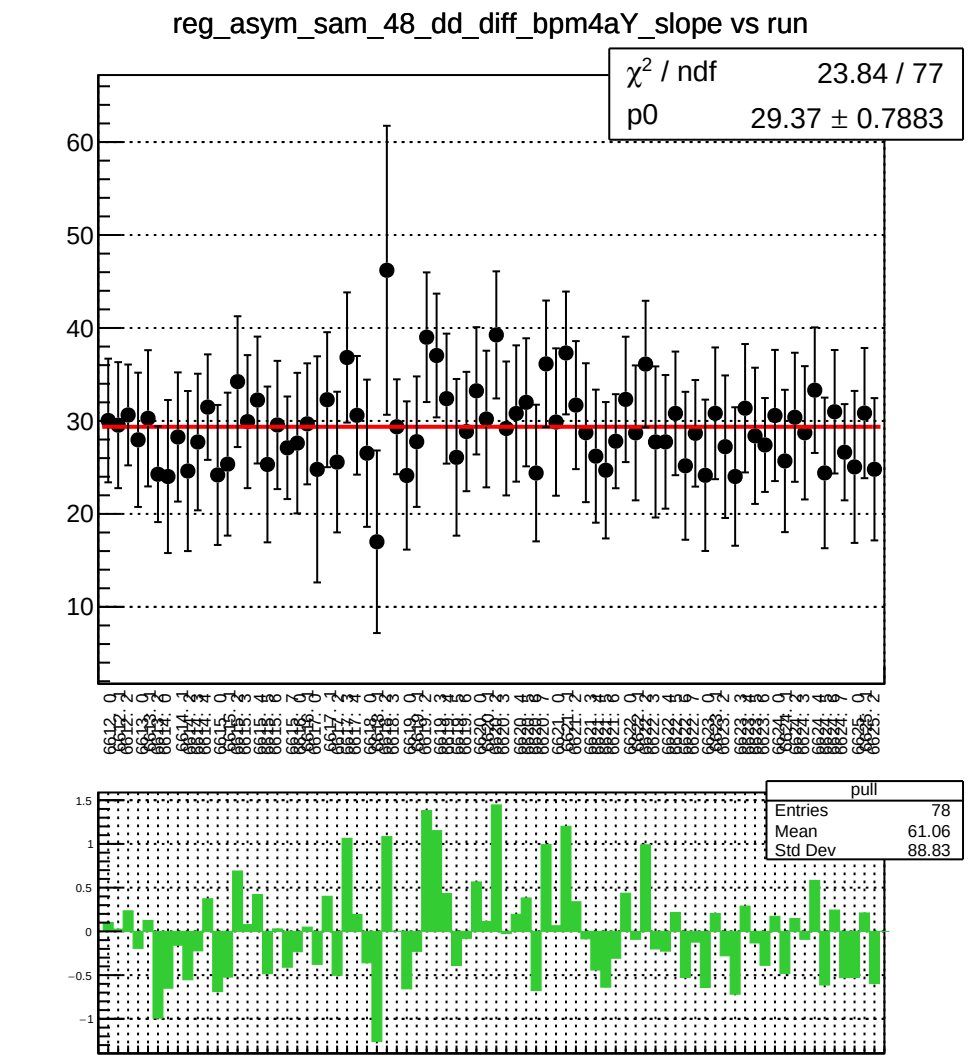

pull1D
Entries 78
Mean −0.0124
Std Dev 0.8475
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

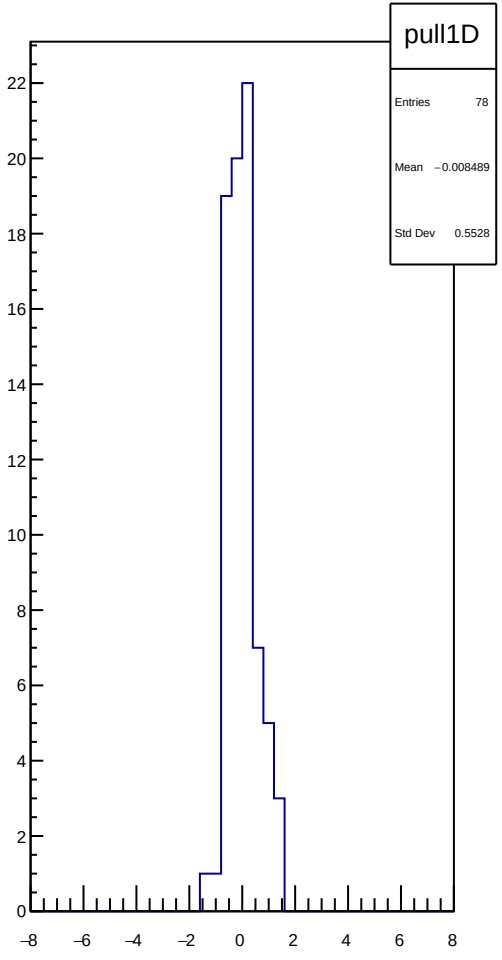

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.56 / 77
p0 133.3 ± 1.027
pull
Entries 78
Mean 235.1
Std Dev 174.2
pull1D
Entries 78
Mean 0.008007
Std Dev 0.8051

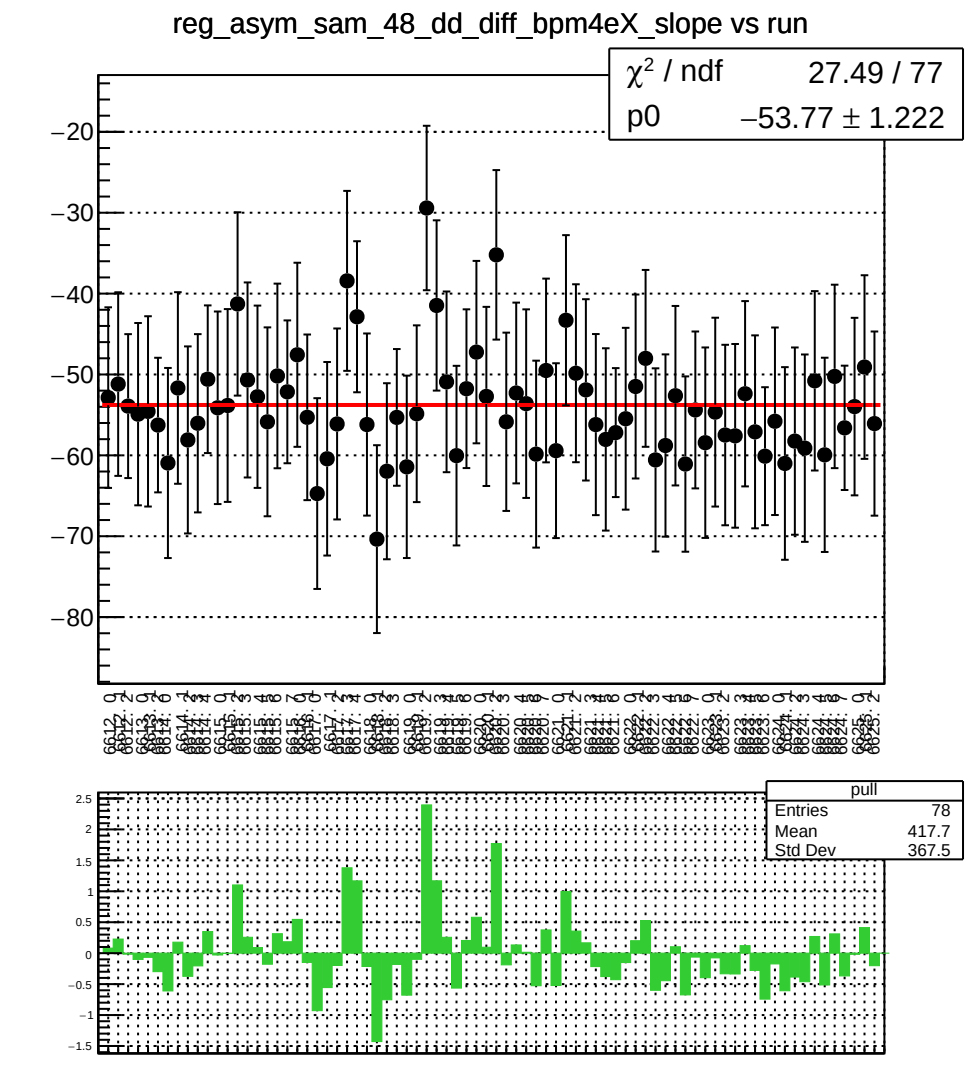

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 6.186 / 77
p0 0.2252 ± 0.05353
pull
Entries 78
Mean −2906
Std Dev 2949

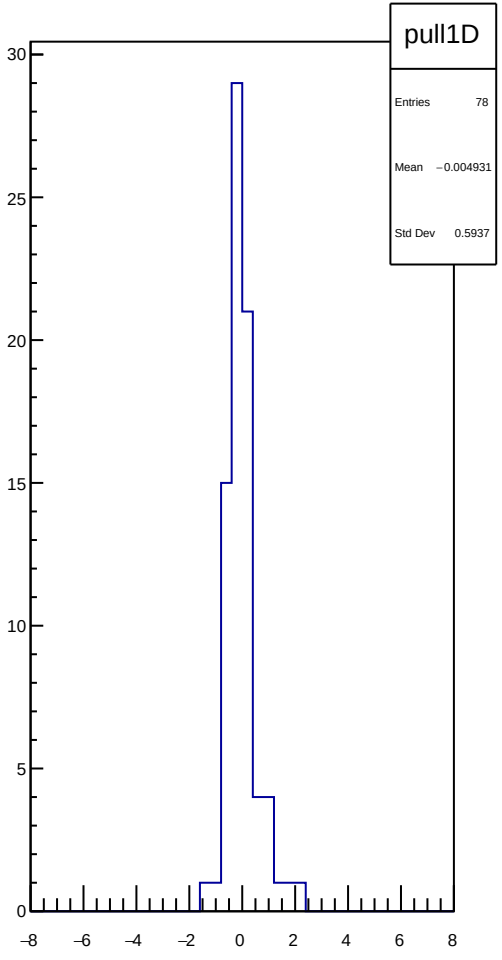

pull1D
Entries 78
Mean −0.0009055
Std Dev 0.2816

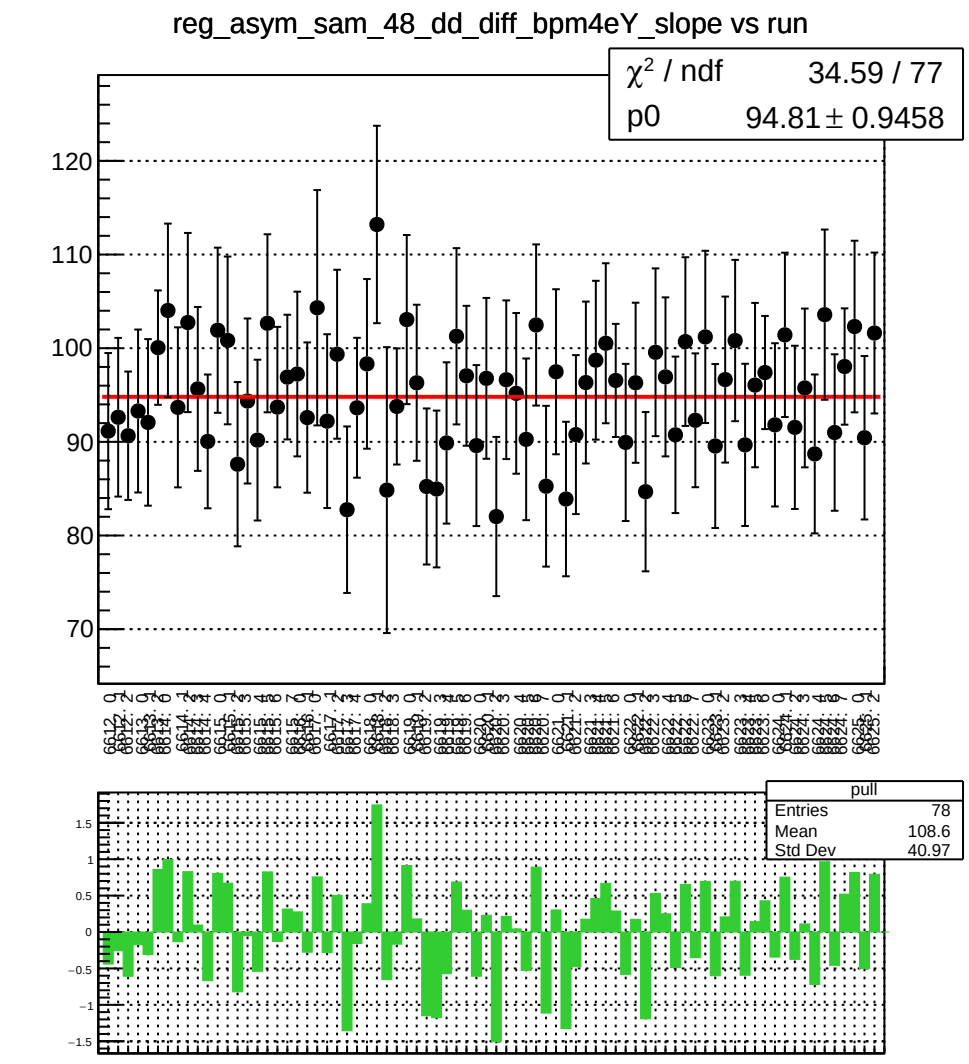

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 26.34 / 77
p0 −34.53 ± 1.146
pull
Entries 78
Mean 824.7
Std Dev 772.2
pull1D
Entries 78
Mean 0.002731
Std Dev 0.5811

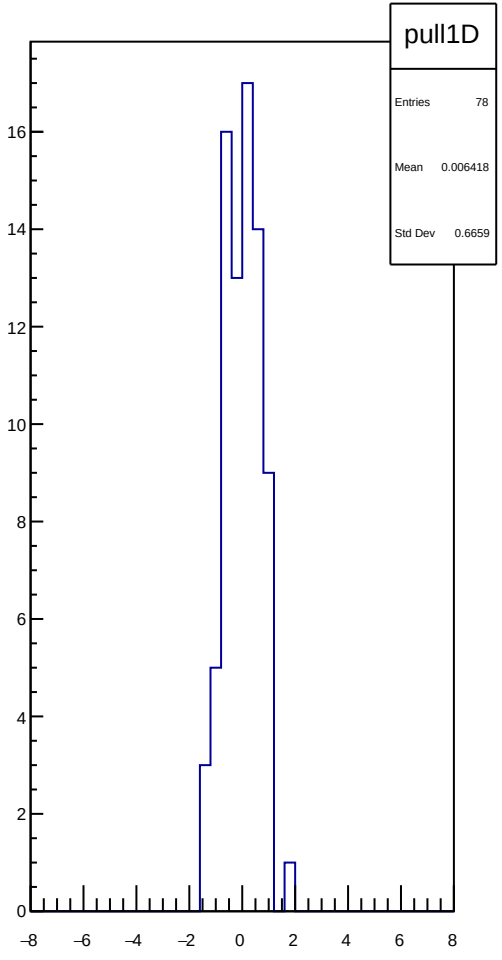

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.84 / 77
p0 29.37 ± 0.7883
pull
Entries 78
Mean 61.06
Std Dev 88.83

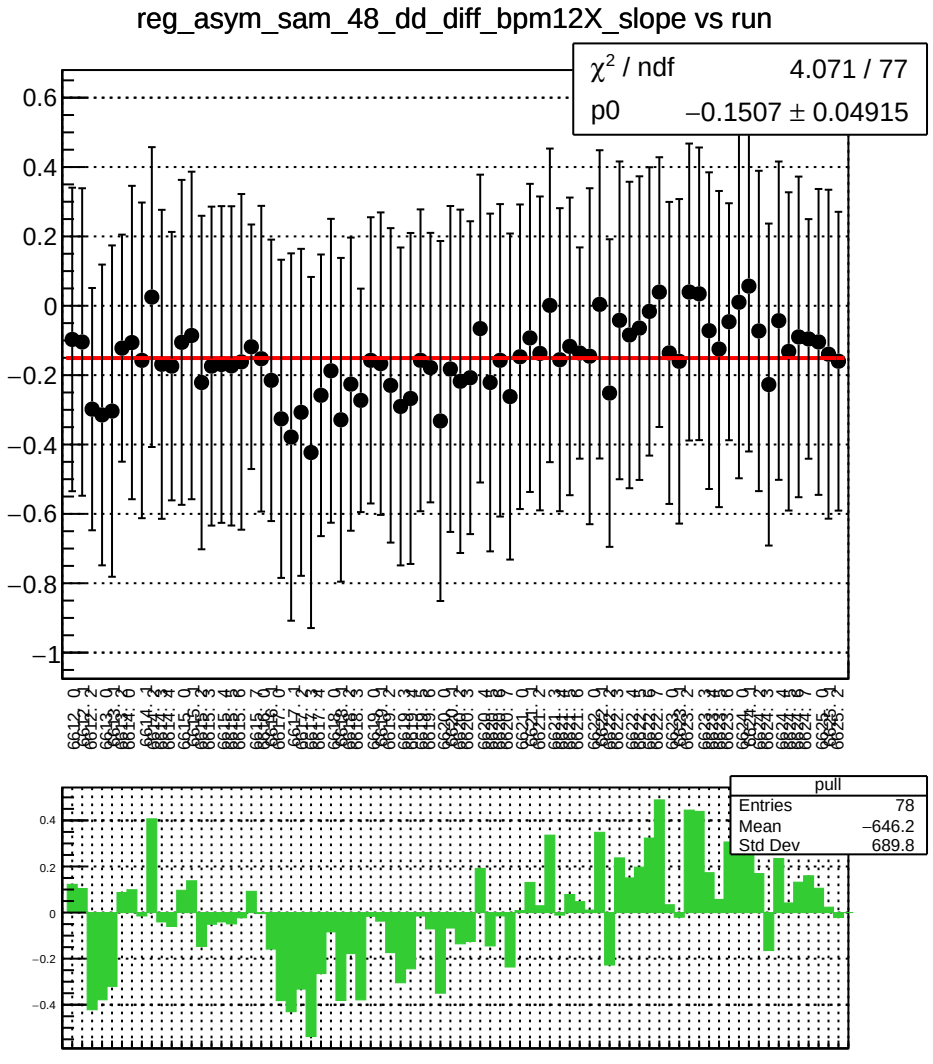

pull1D
Entries 78
Mean −0.008489
Std Dev 0.5528

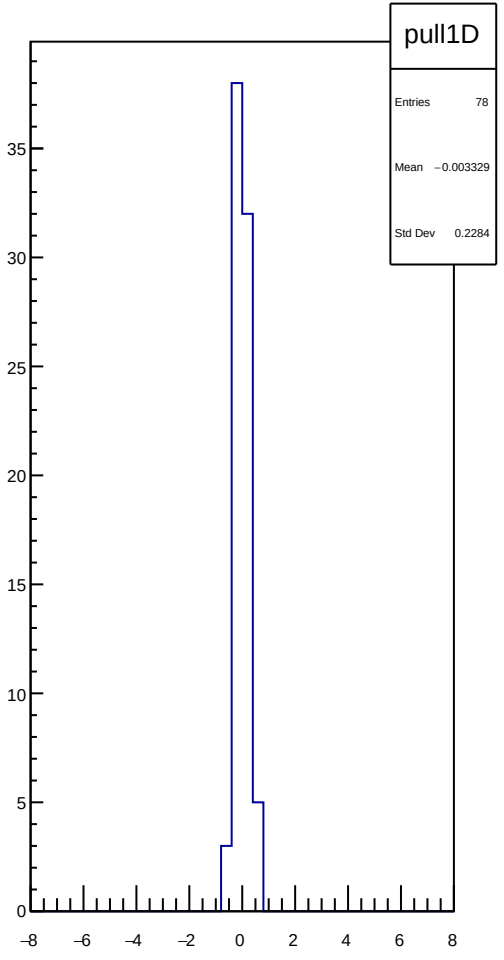

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.49 / 77
p0 −53.77 ± 1.222
pull
Entries 78
Mean 417.7
Std Dev 367.5

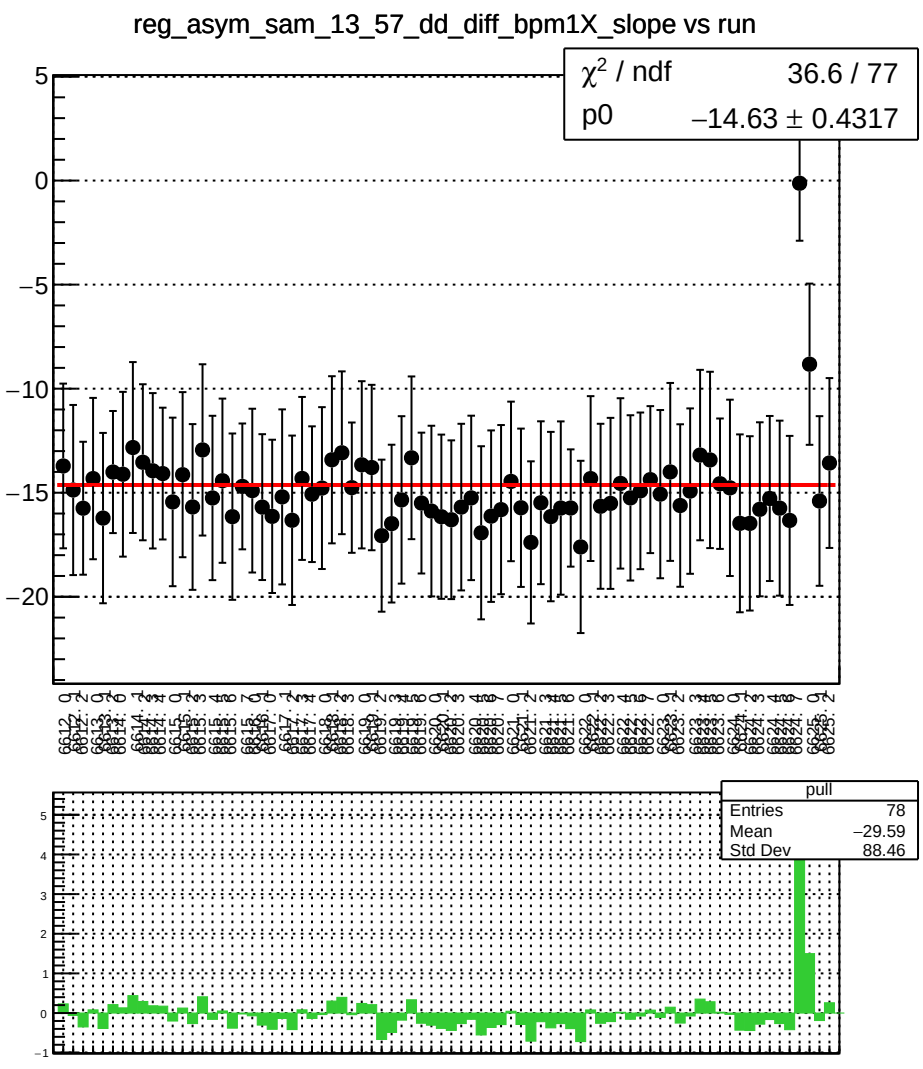

pull1D
Entries 78
Mean −0.004931
Std Dev 0.5937

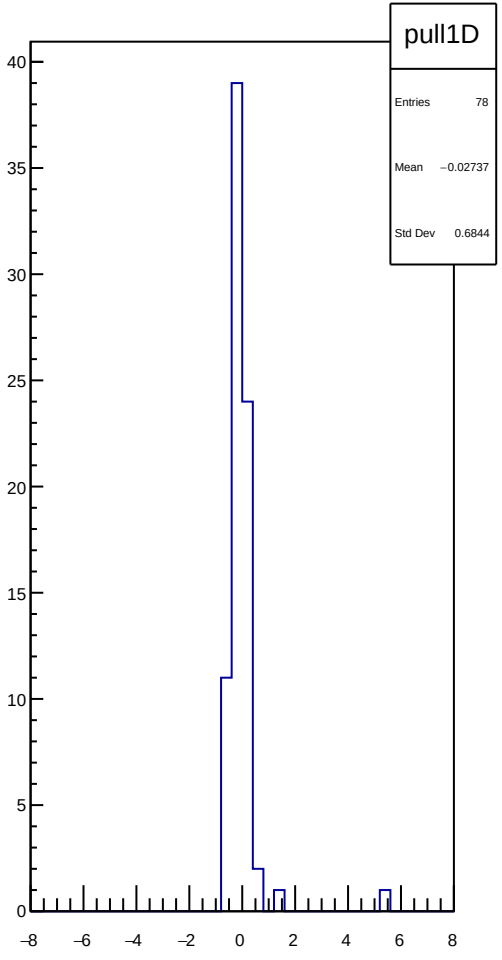

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.59 / 77
p0 94.81 ± 0.9458
120
110
100
90
80
70
pull
Entries 78
Mean 108.6
Std Dev 40.97
1.5
1
0.5
0
−0.5
−1
−1.5

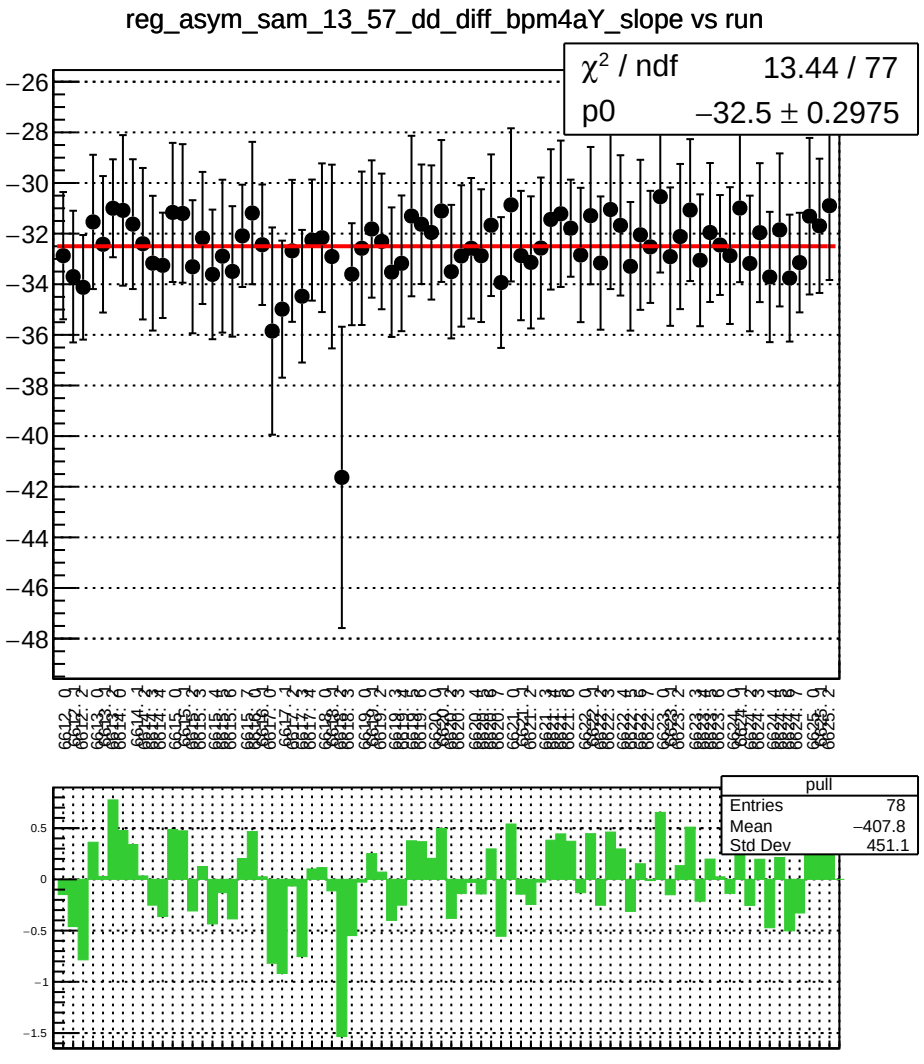

pull1D
Entries 78
Mean 0.006418
Std Dev 0.6659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

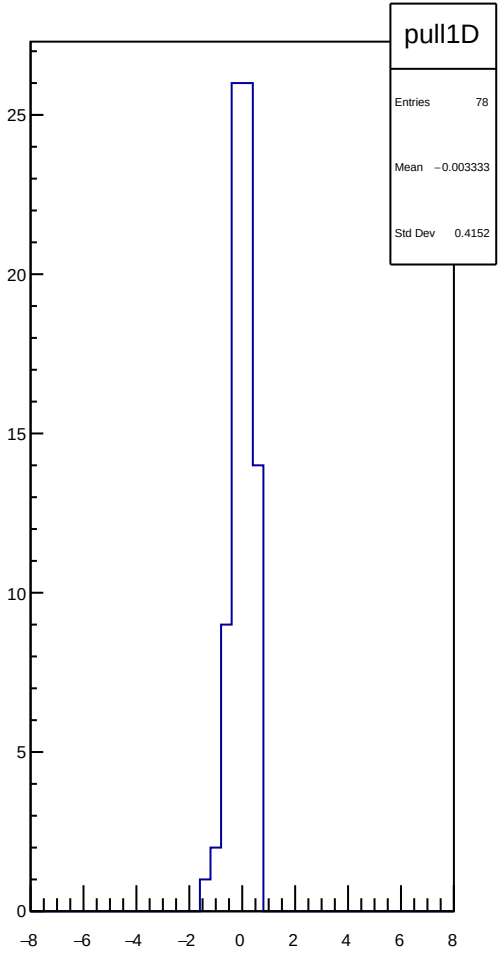

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.071 / 77
p0 −0.1507 ± 0.04915
pull
Entries 78
Mean −646.2
Std Dev 689.8

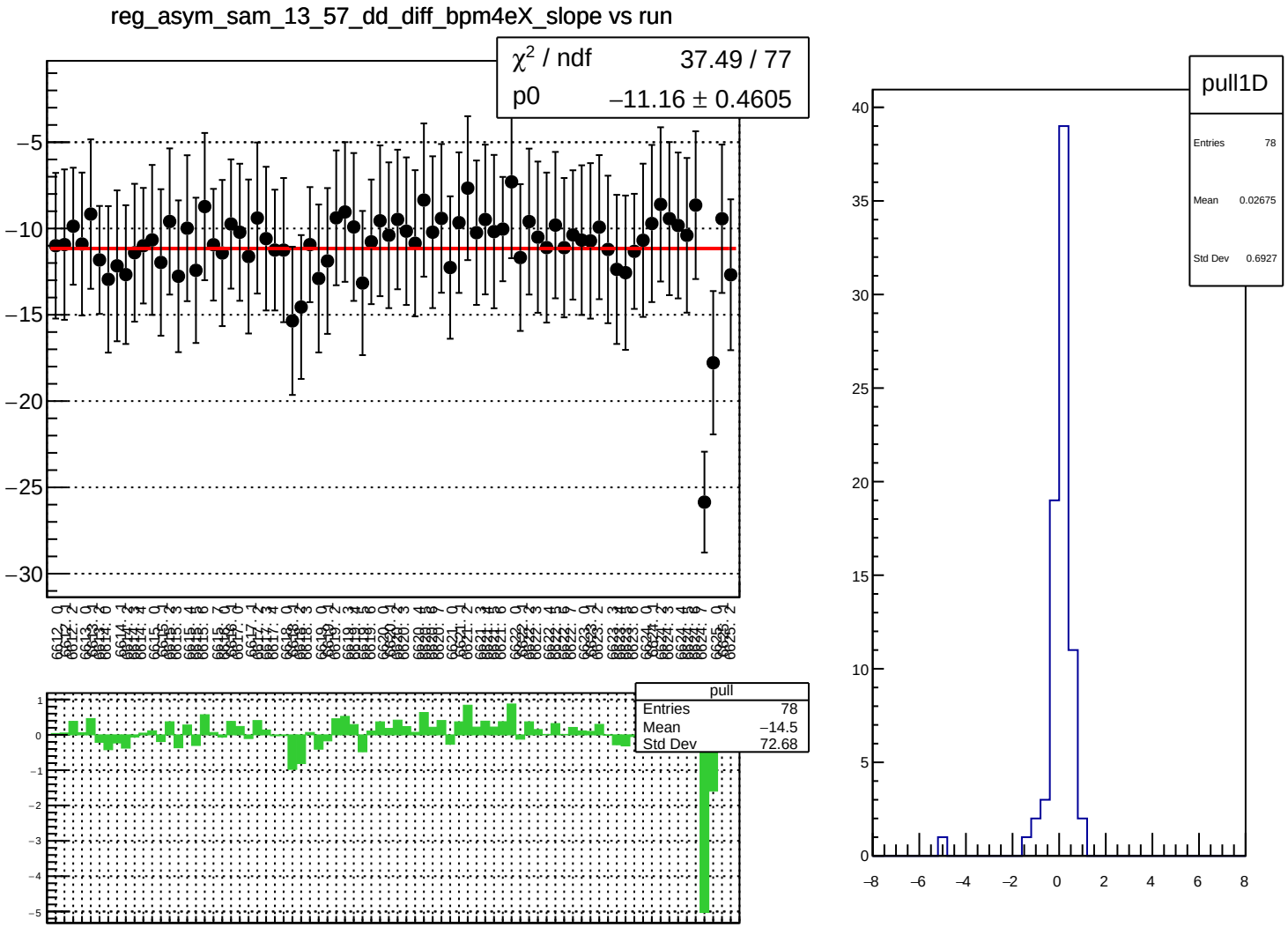

pull1D
Entries 78
Mean −0.003329
Std Dev 0.2284

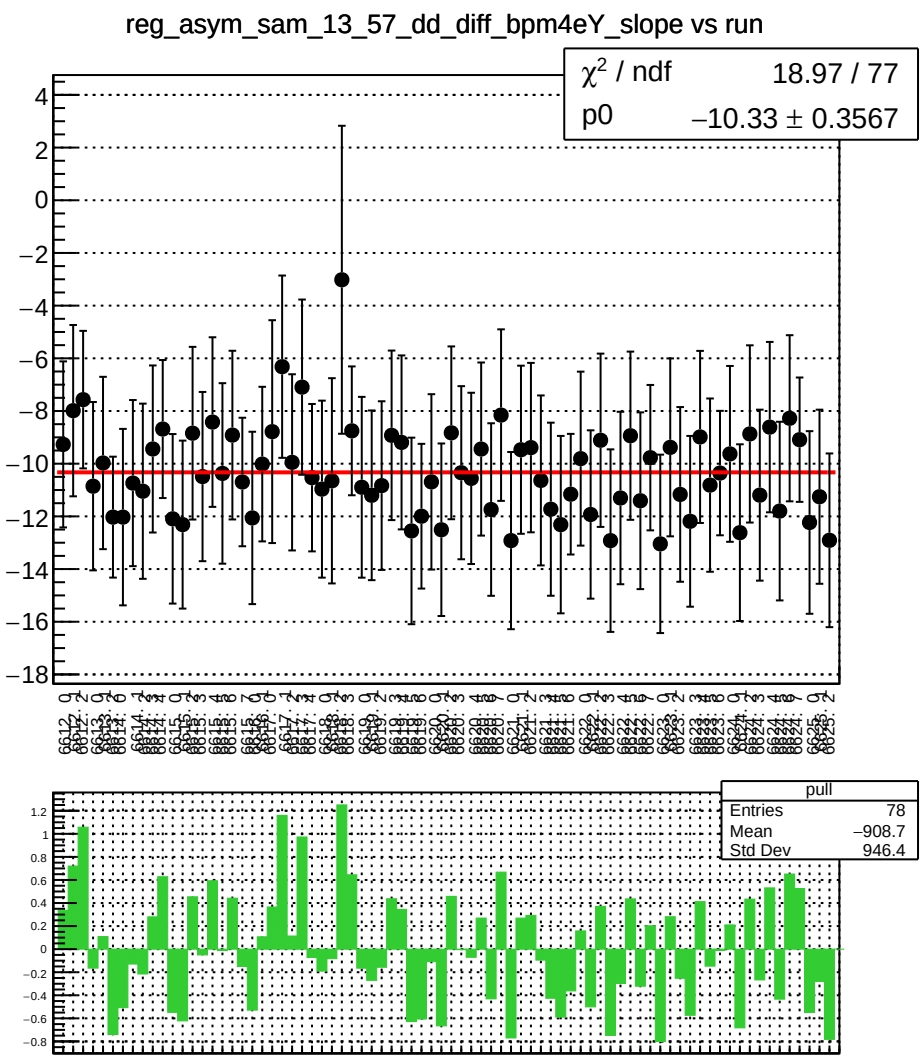

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 36.6 / 77
p0 −14.63 ± 0.4317
pull
Entries 78
Mean −29.59
Std Dev 88.46

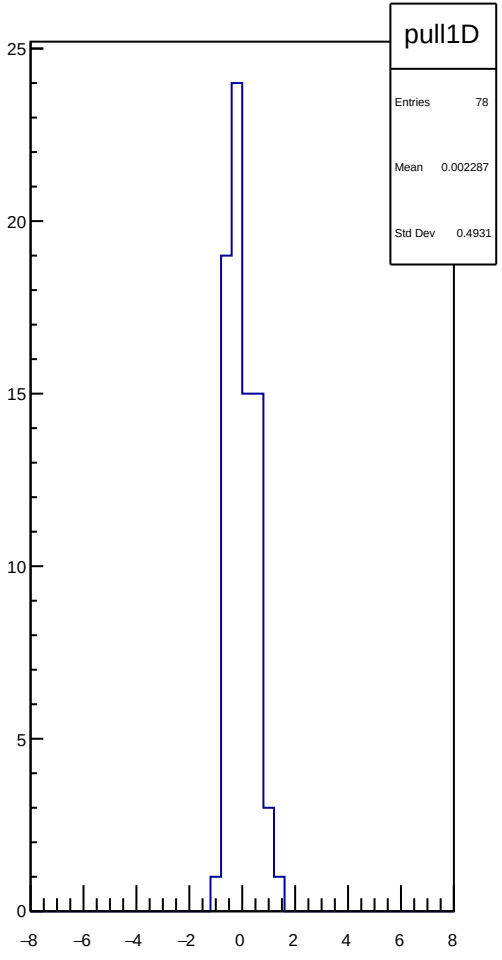

pull1D
Entries 78
Mean −0.02737
Std Dev 0.6844

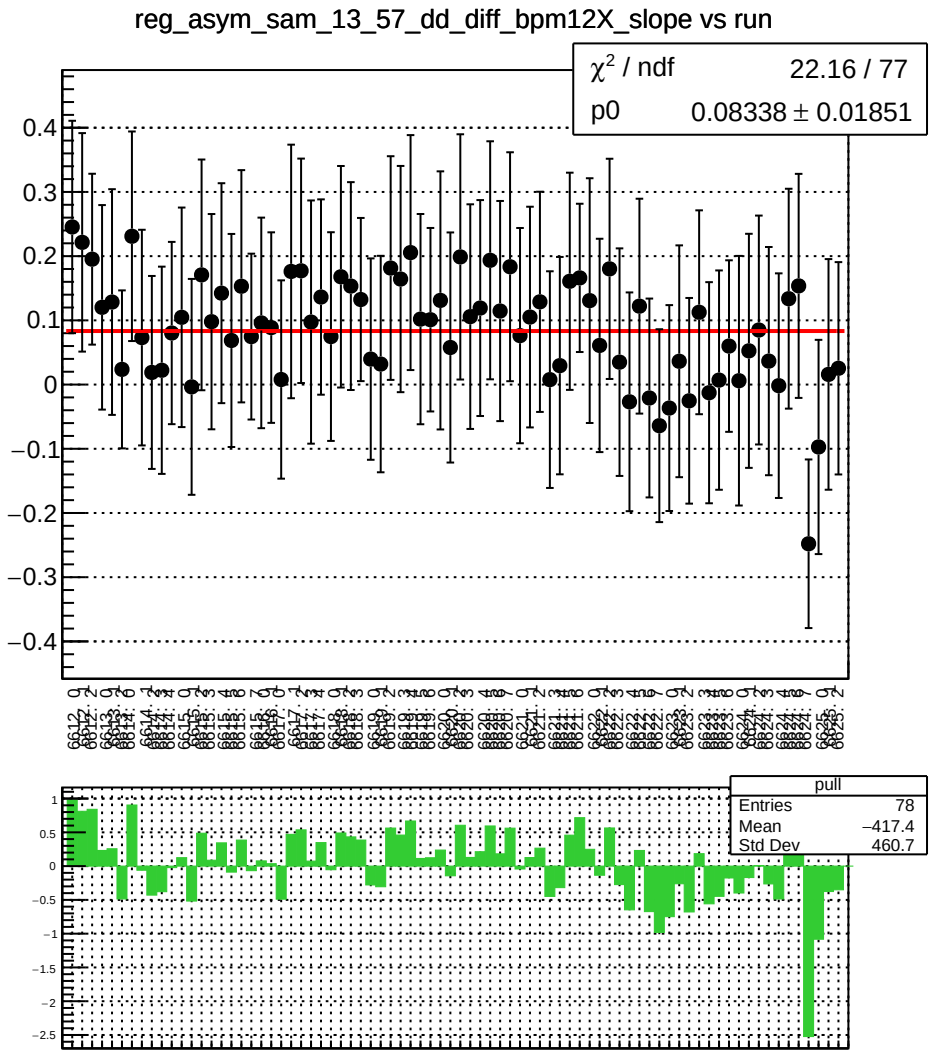

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.44 / 77
p0 −32.5 ± 0.2975
pull
Entries 78
Mean −407.8
Std Dev 451.1

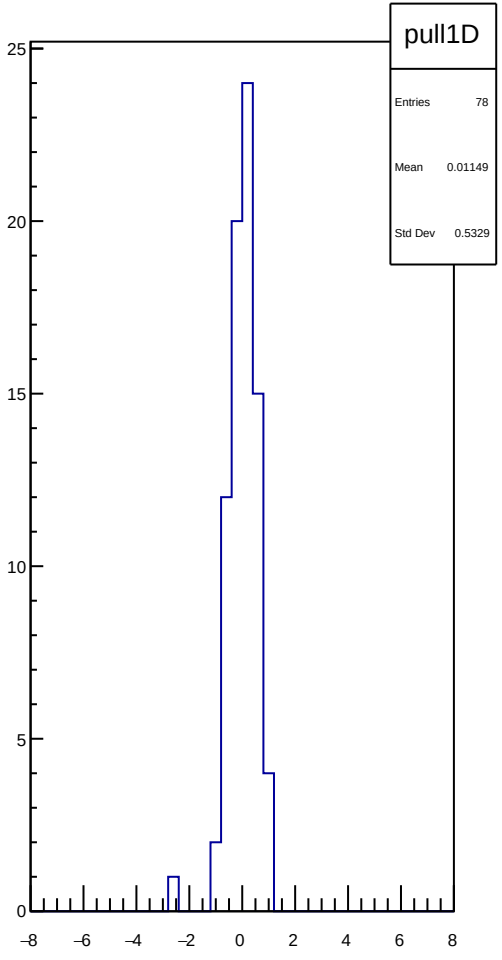

pull1D
Entries 78
Mean −0.003333
Std Dev 0.4152

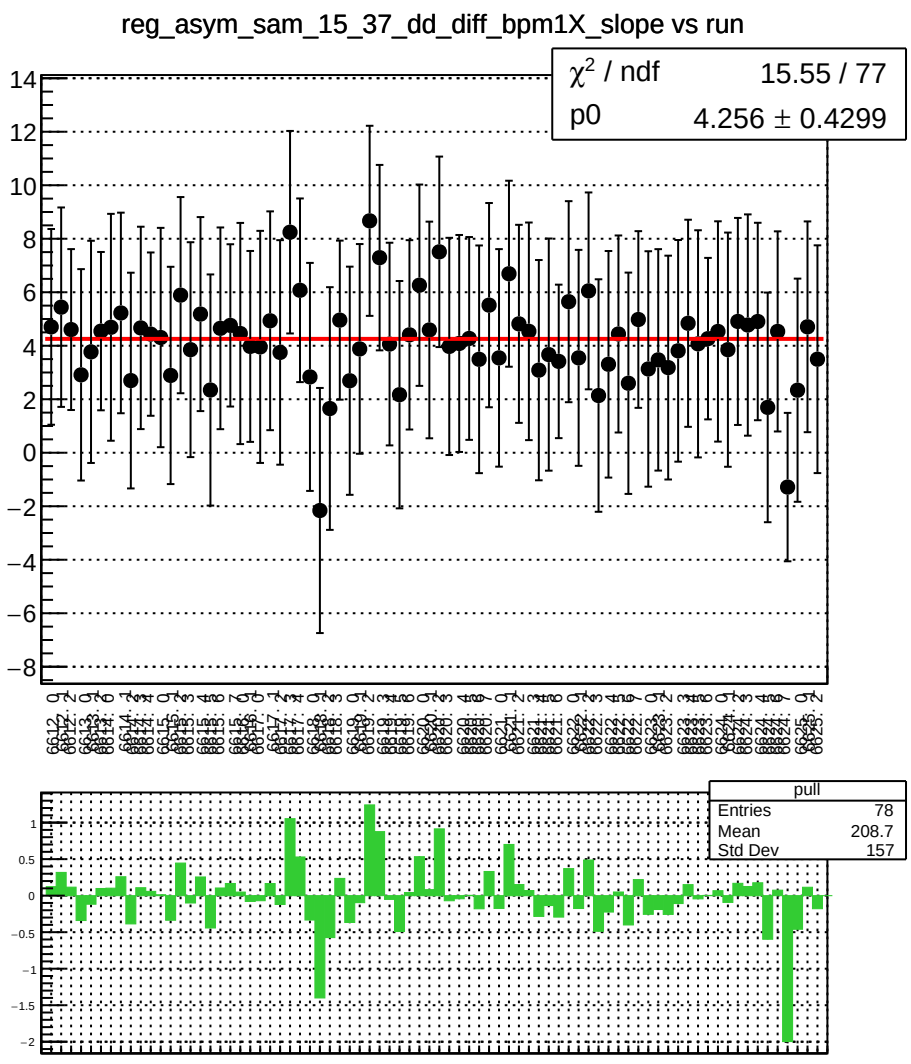

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.49 / 77
p0 −11.16 ± 0.4605
pull
Entries 78
Mean −14.5
Std Dev 72.68
pull1D
Entries 78
Mean 0.02675
Std Dev 0.6927

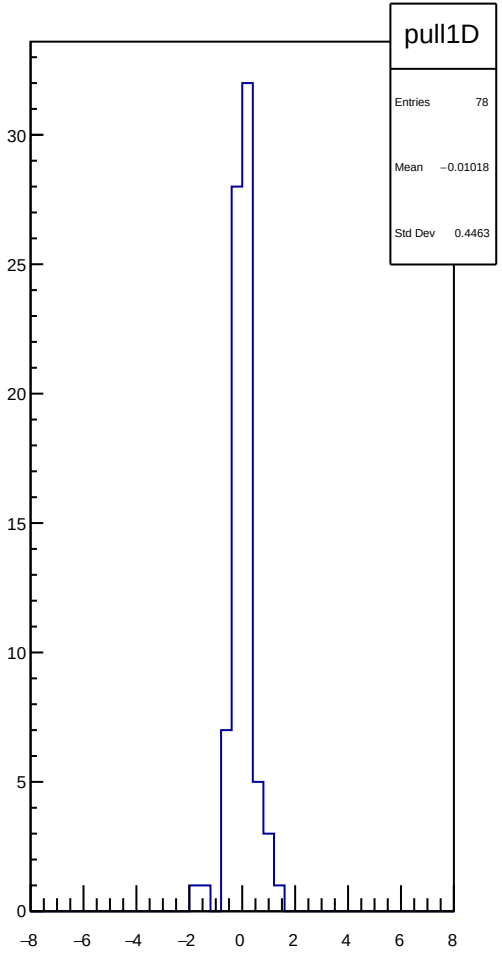

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.97 / 77
p0 −10.33 ± 0.3567
pull
Entries 78
Mean −908.7
Std Dev 946.4

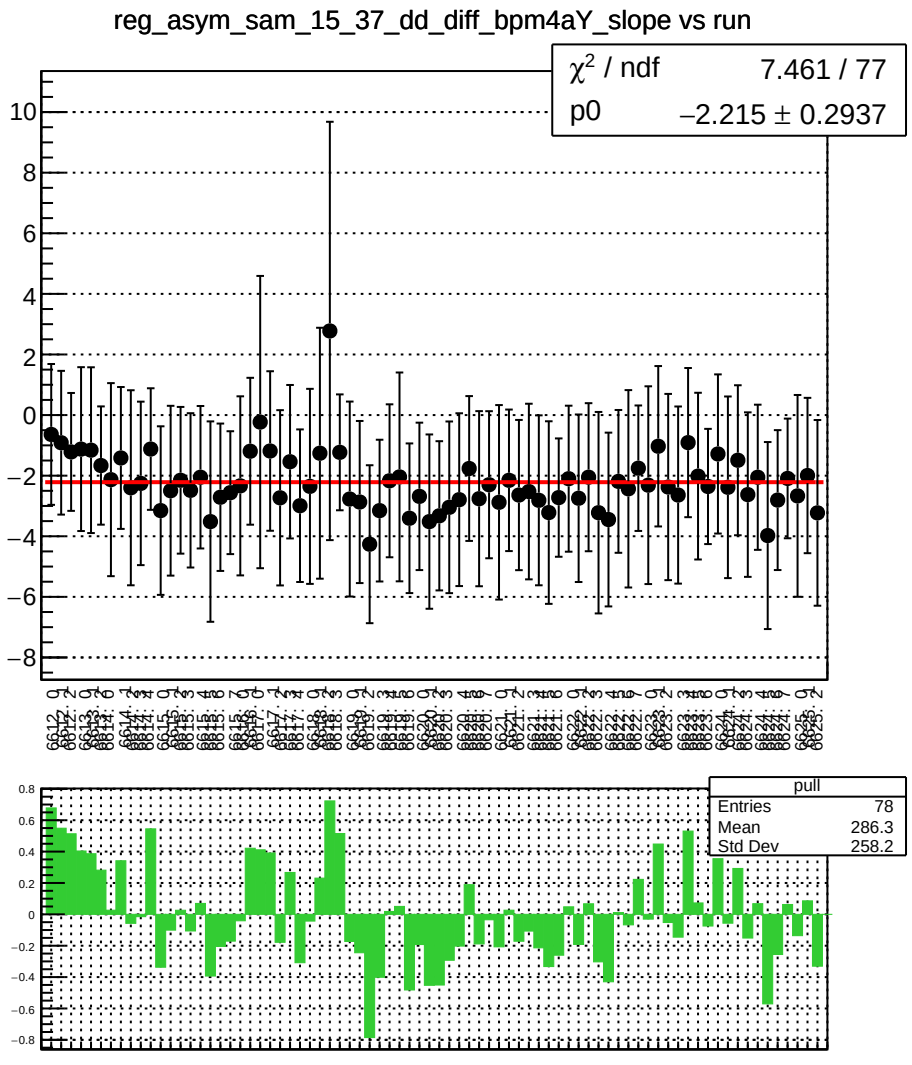

pull1D
Entries 78
Mean 0.002287
Std Dev 0.4931

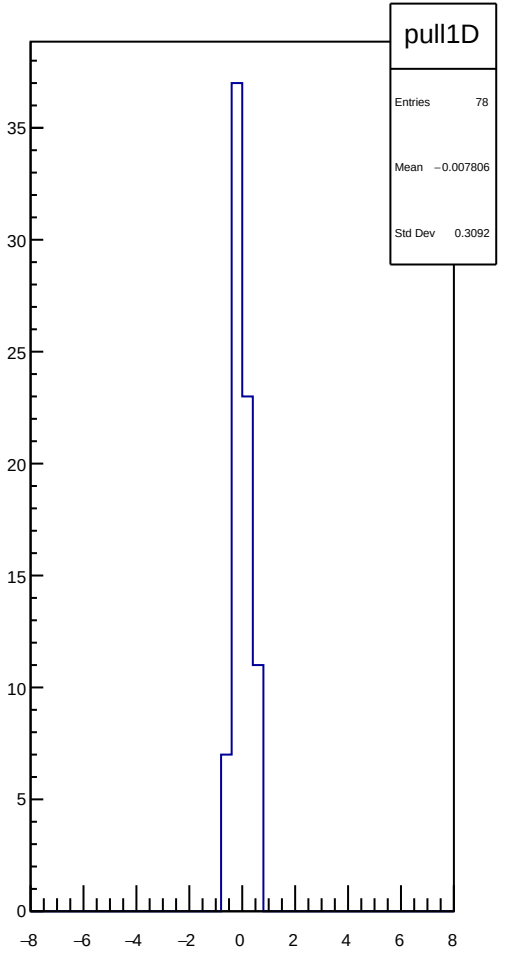

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 22.16 / 77
p0 0.08338 ± 0.01851
pull
Entries 78
Mean −417.4
Std Dev 460.7

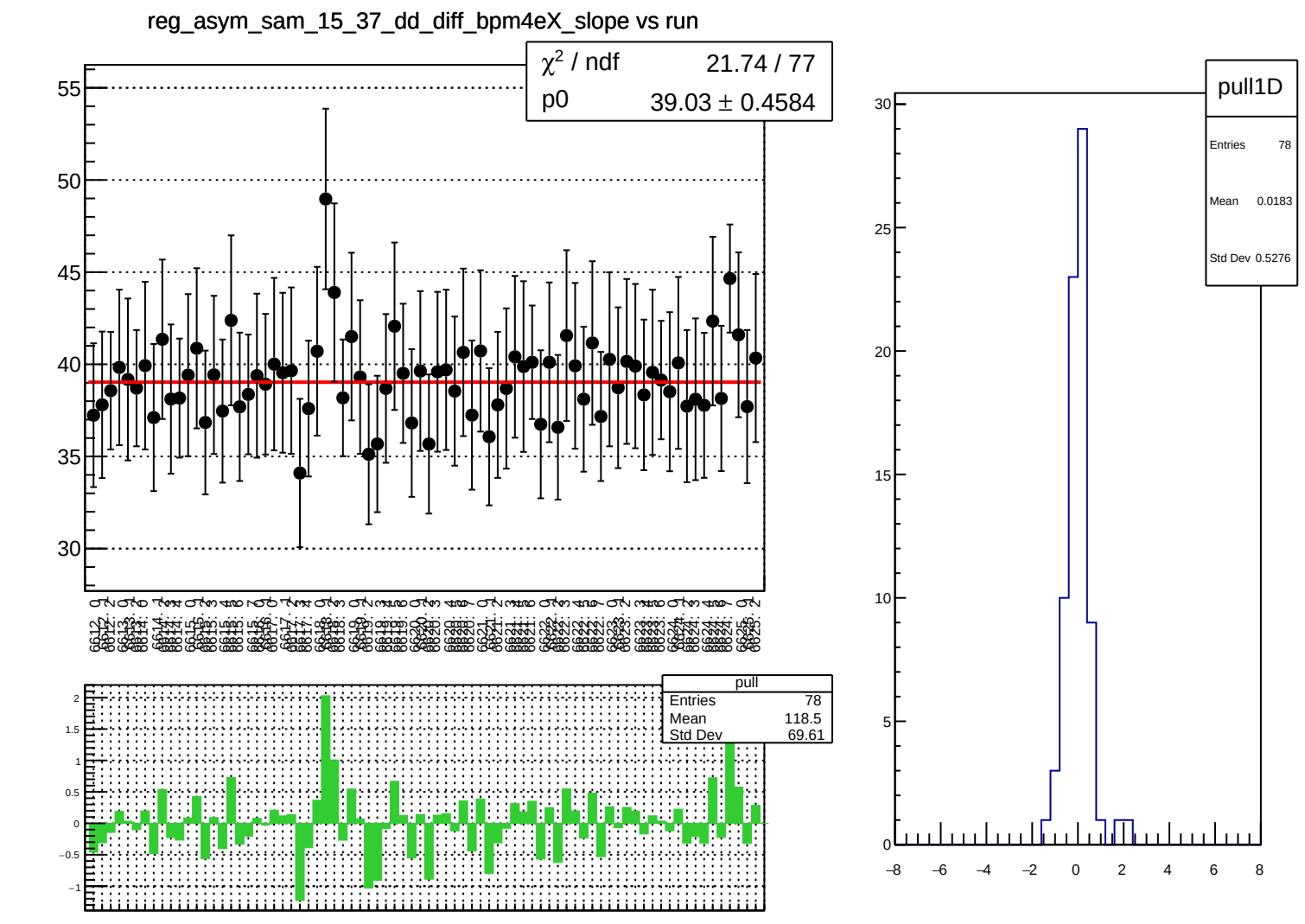

pull1D
Entries 78
Mean 0.01149
Std Dev 0.5329

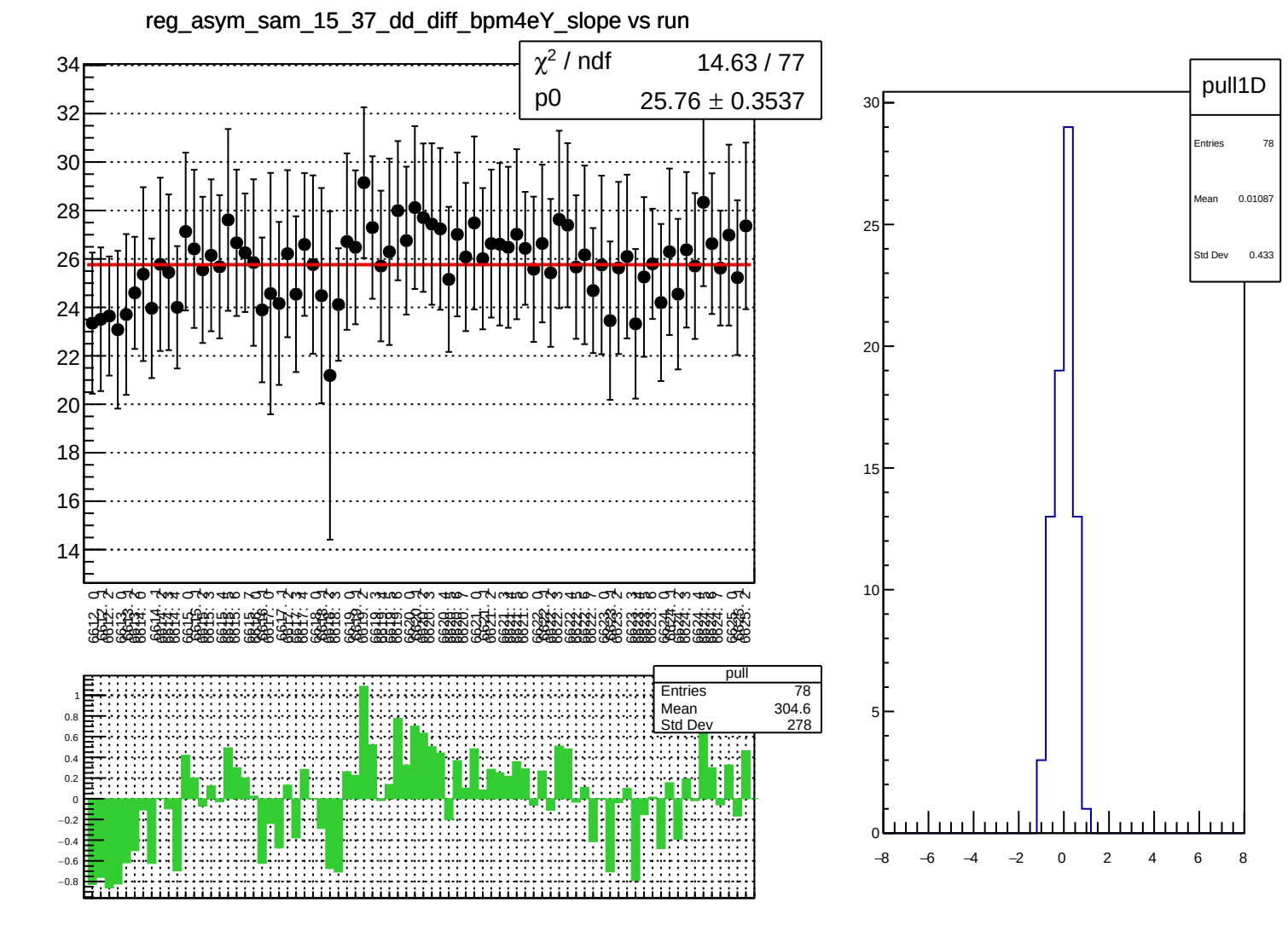

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 15.55 / 77
p0 4.256 ± 0.4299
pull
Entries 78
Mean 208.7
Std Dev 157

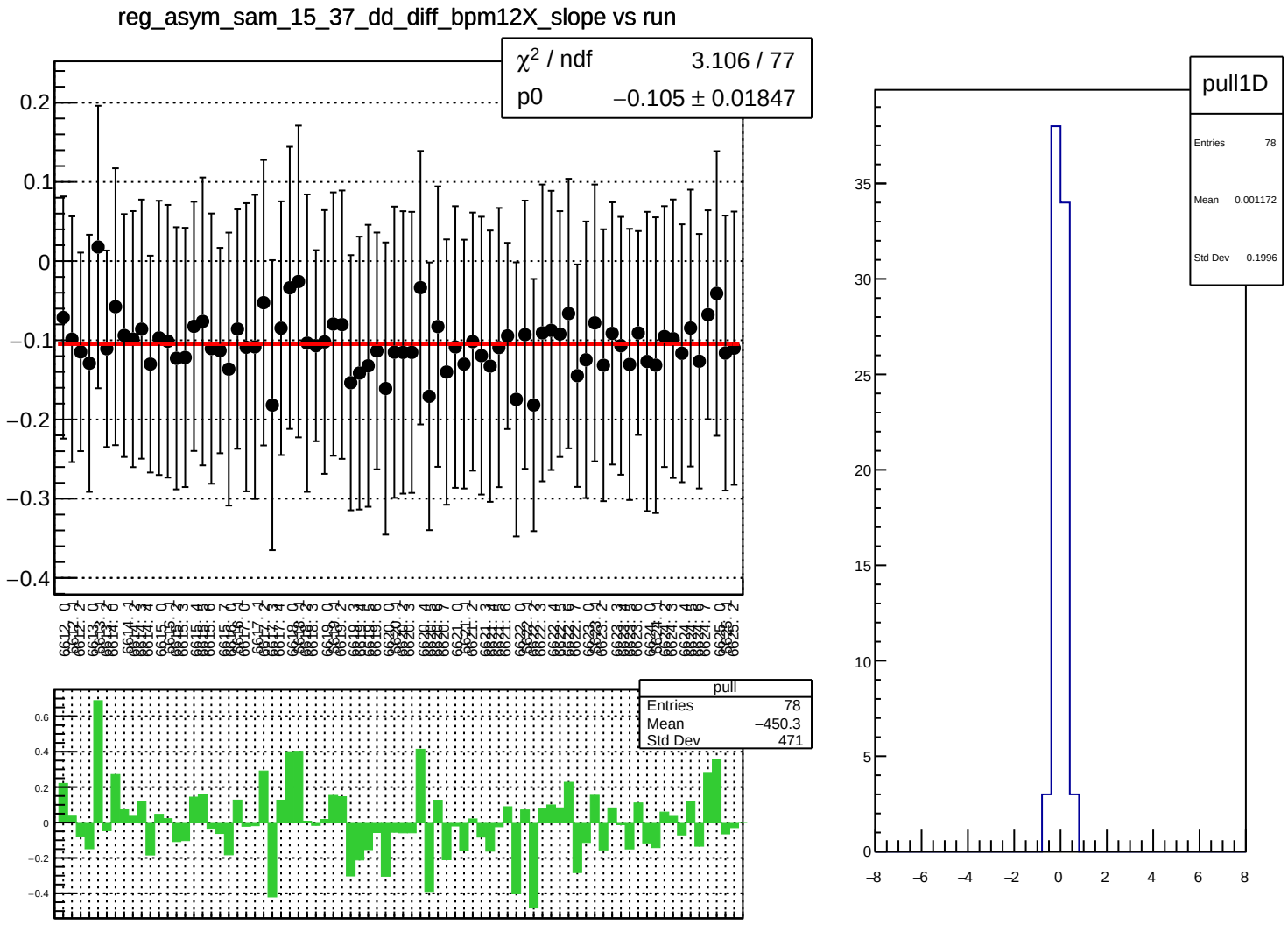

pull1D
Entries 78
Mean −0.01018
Std Dev 0.4463

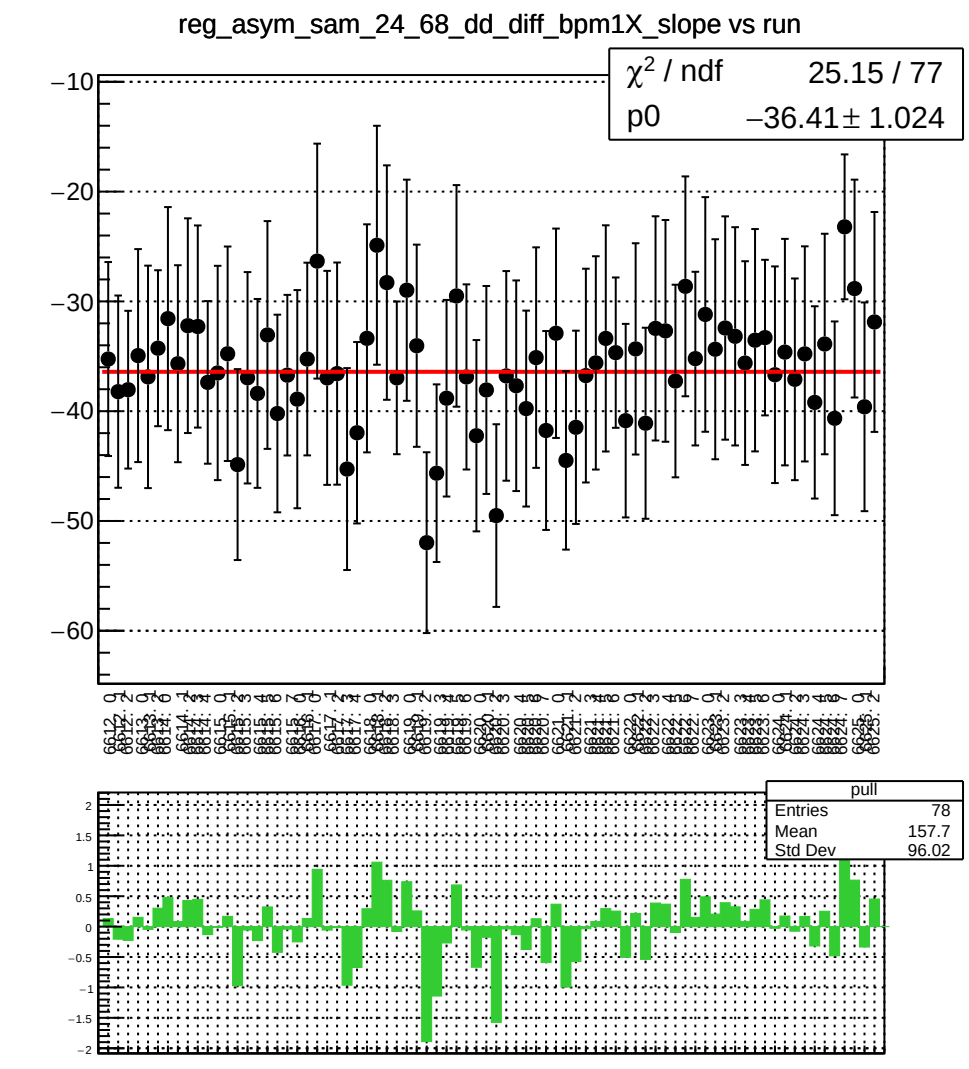

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.461 / 77
p0 −2.215 ± 0.2937
pull
Entries 78
Mean 286.3
Std Dev 258.2

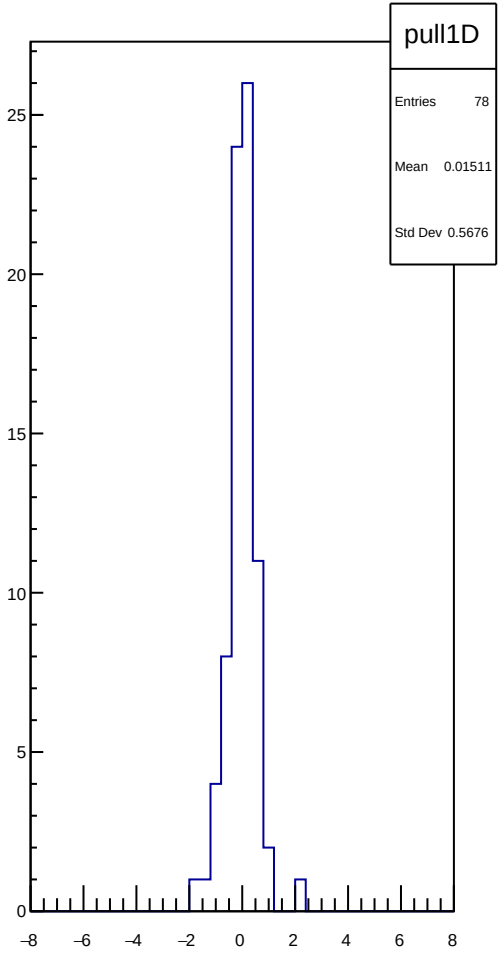

pull1D
Entries 78
Mean −0.007806
Std Dev 0.3092

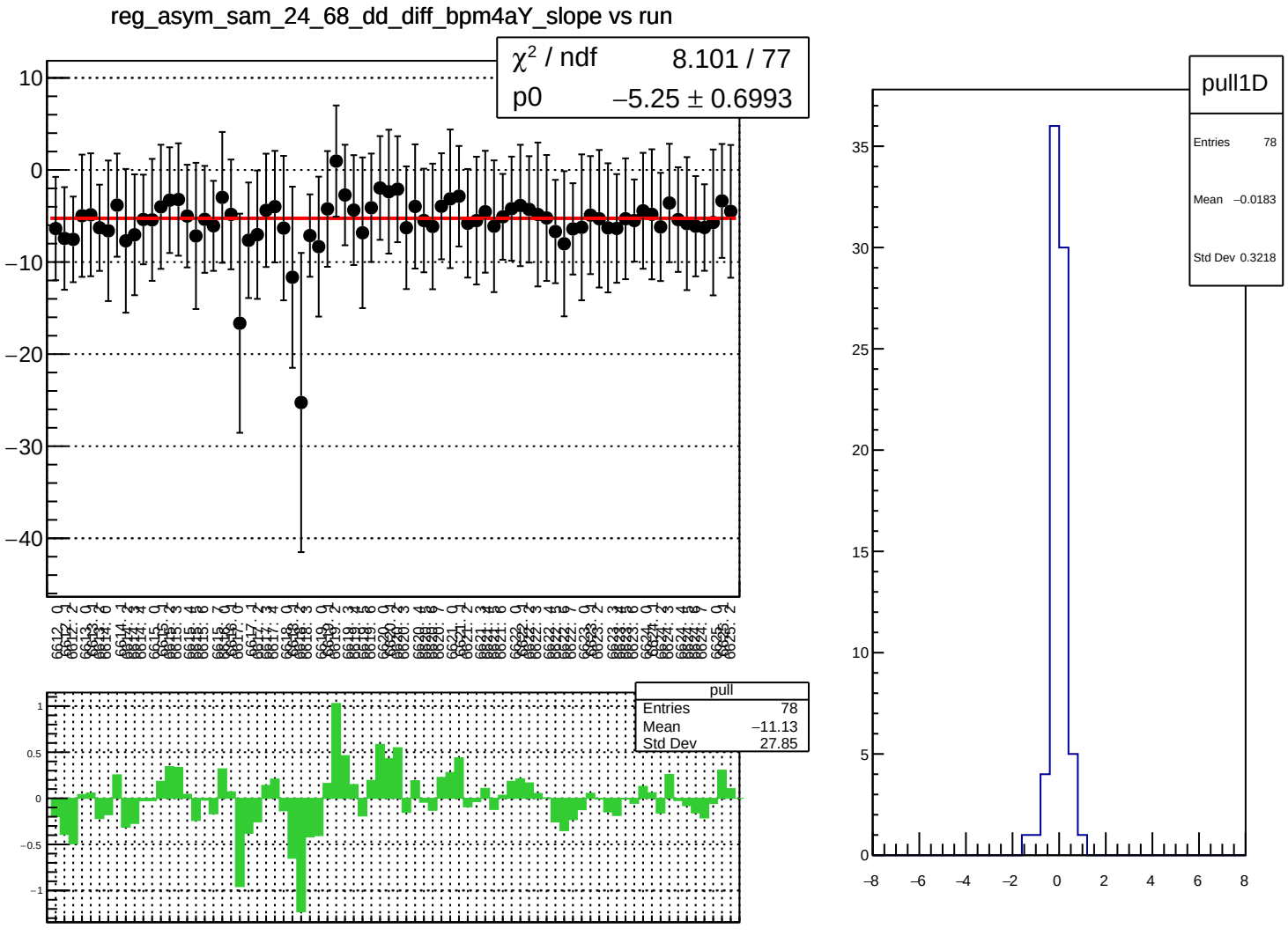

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.74 / 77
p0 39.03 ± 0.4584
pull
Entries 78
Mean 118.5
Std Dev 69.61
pull1D
Entries 78
Mean 0.0183
Std Dev 0.5276

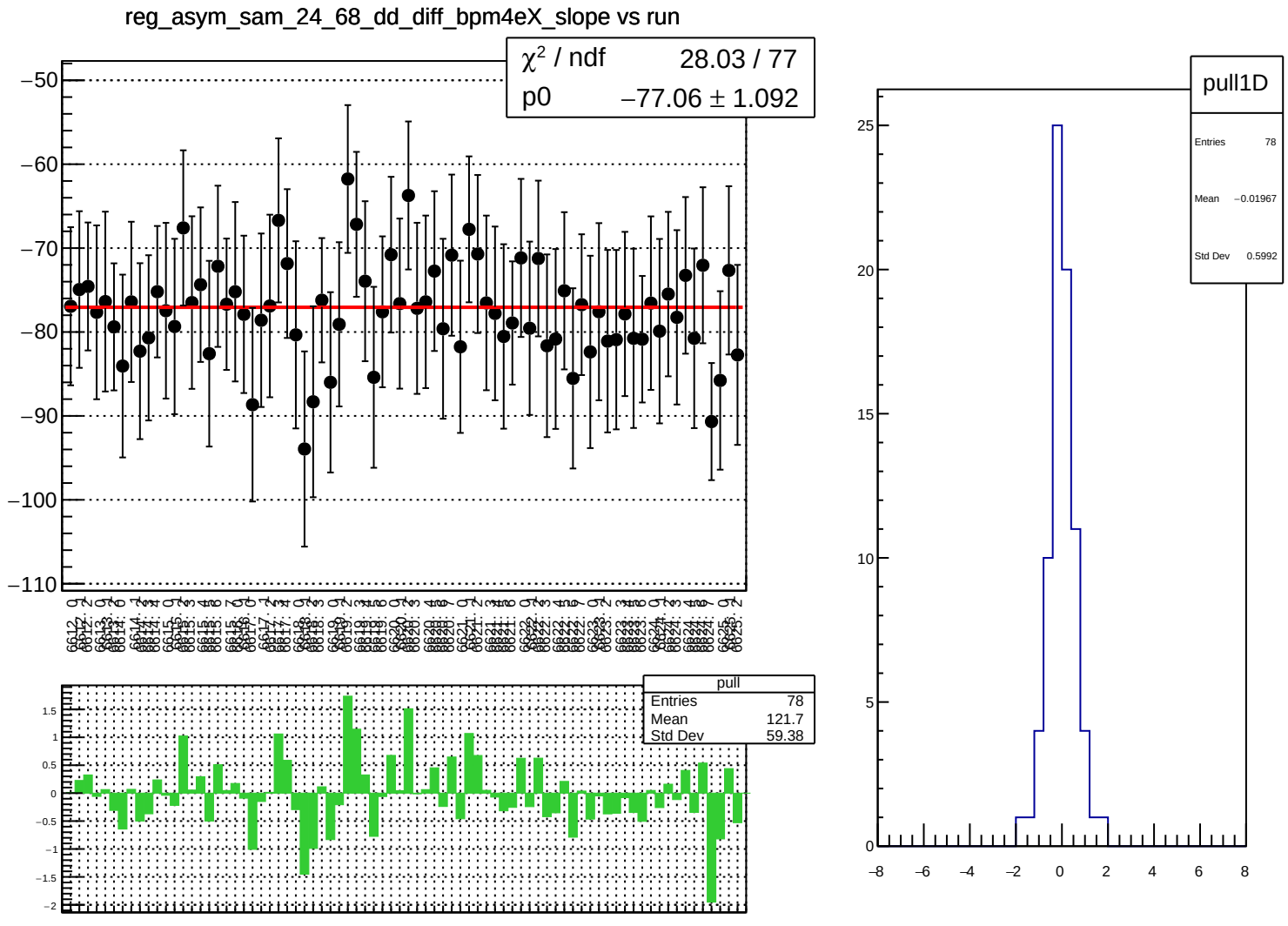

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.63 / 77
p0 25.76 ± 0.3537
pull
Entries 78
Mean 304.6
Std Dev 278
pull1D
Entries 78
Mean 0.01087
Std Dev 0.433

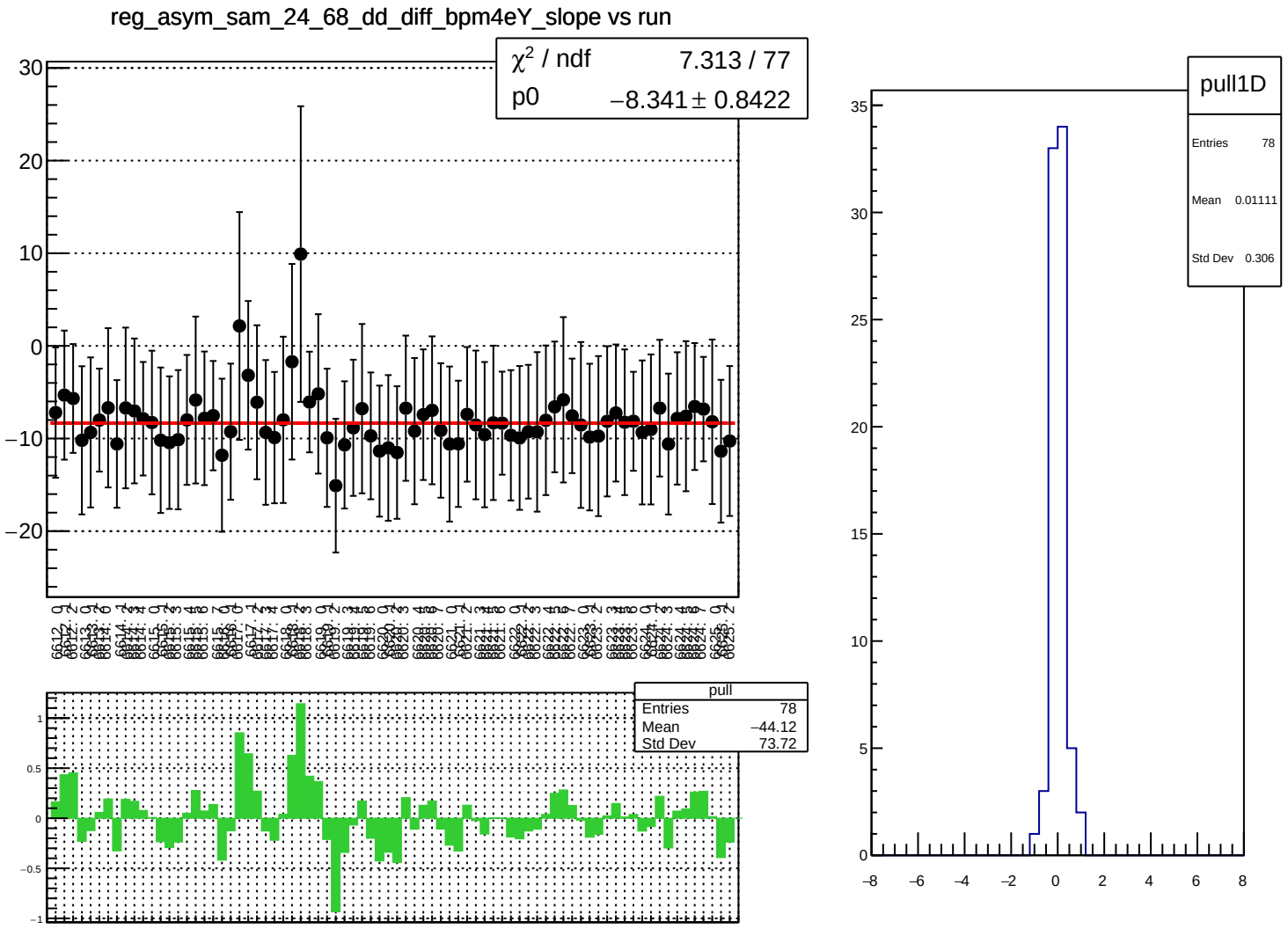

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.106 / 77
p0 −0.105 ± 0.01847
pull
Entries 78
Mean −450.3
Std Dev 471
pull1D
Entries 78
Mean 0.001172
Std Dev 0.1996

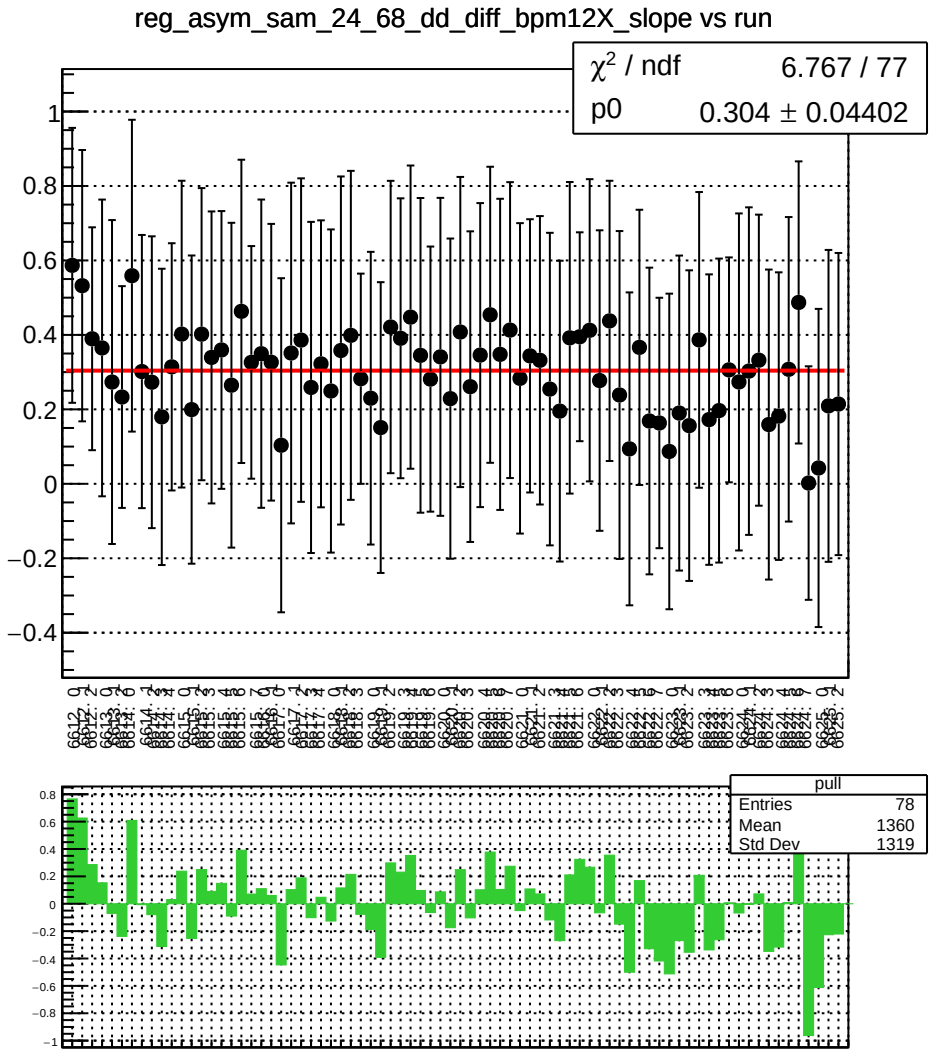

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 25.15 / 77
p0 −36.41 ± 1.024
pull
Entries 78
Mean 157.7
Std Dev 96.02

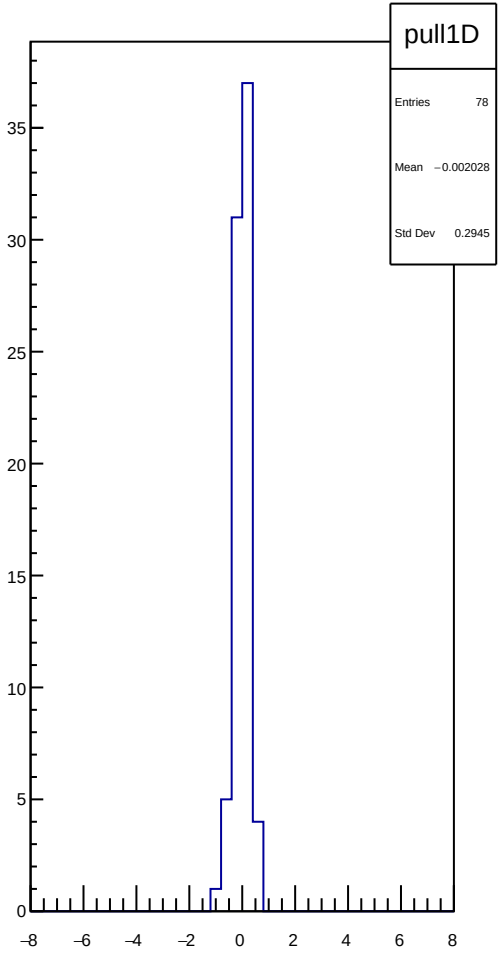

pull1D
Entries 78
Mean 0.01511
Std Dev 0.5676

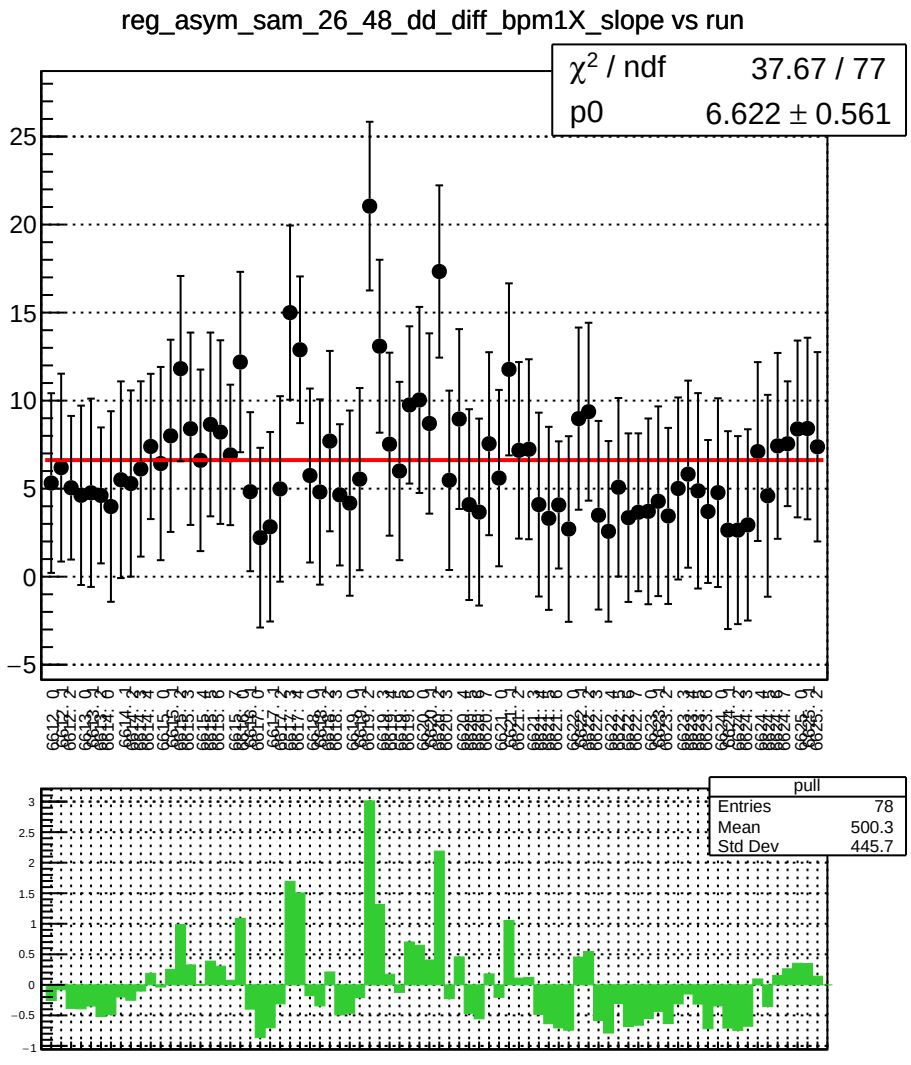

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.101 / 77
p0 −5.25 ± 0.6993
pull
Entries 78
Mean −11.13
Std Dev 27.85
pull1D
Entries 78
Mean −0.0183
Std Dev 0.3218

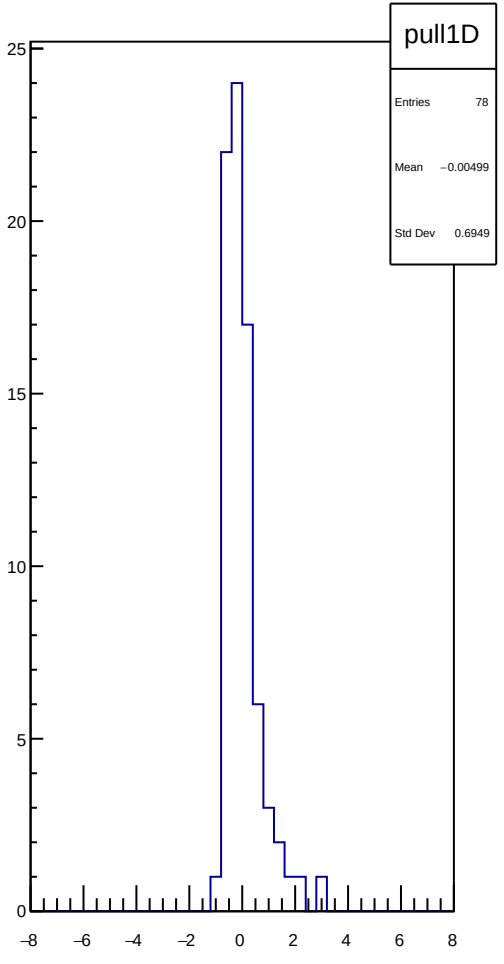

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.03 / 77
p0 −77.06 ± 1.092
pull
Entries 78
Mean 121.7
Std Dev 59.38
pull1D
Entries 78
Mean −0.01967
Std Dev 0.5992

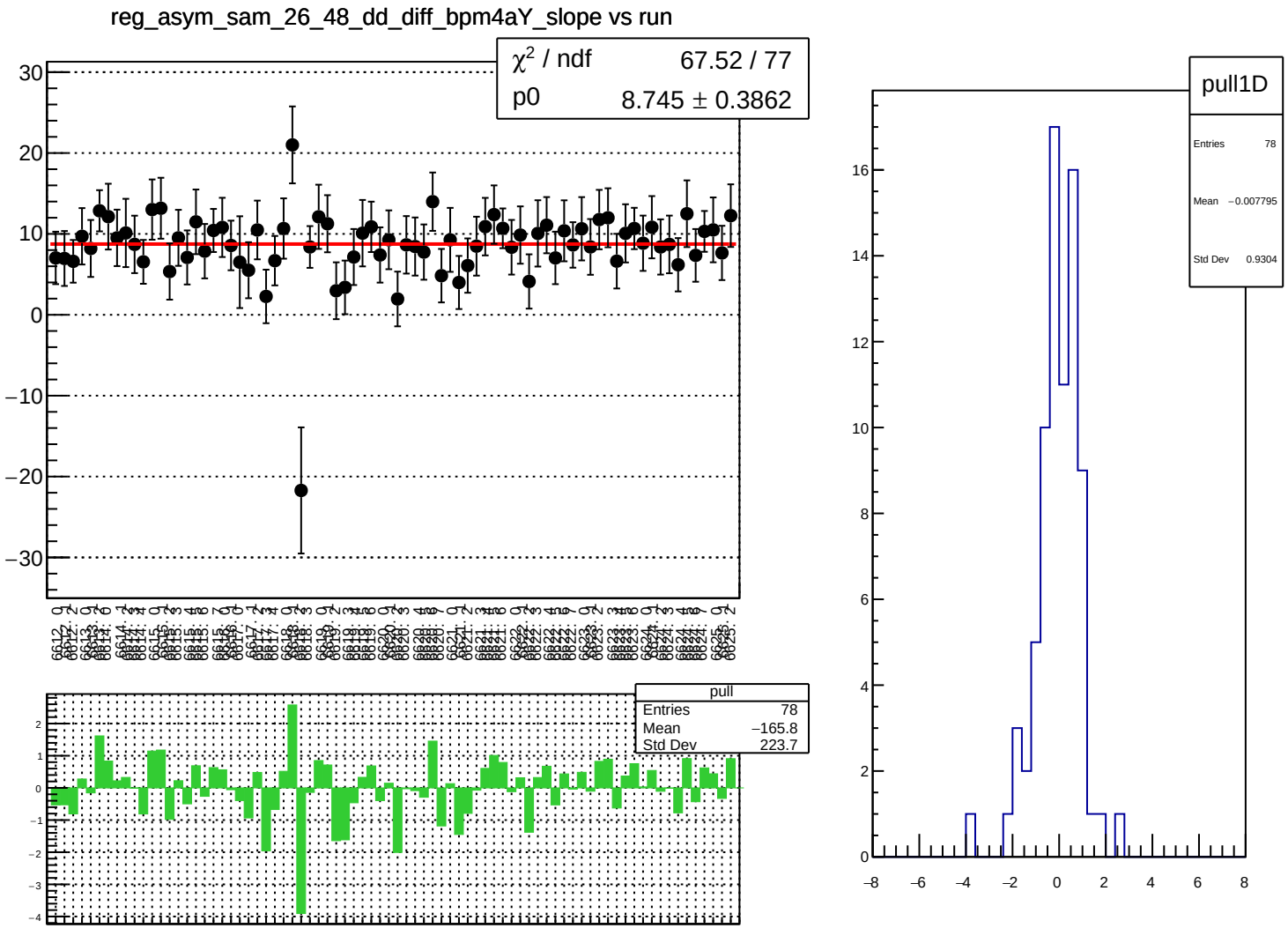

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.313 / 77
p0 −8.341 ± 0.8422
pull
Entries 78
Mean −44.12
Std Dev 73.72
pull1D
Entries 78
Mean 0.01111
Std Dev 0.306

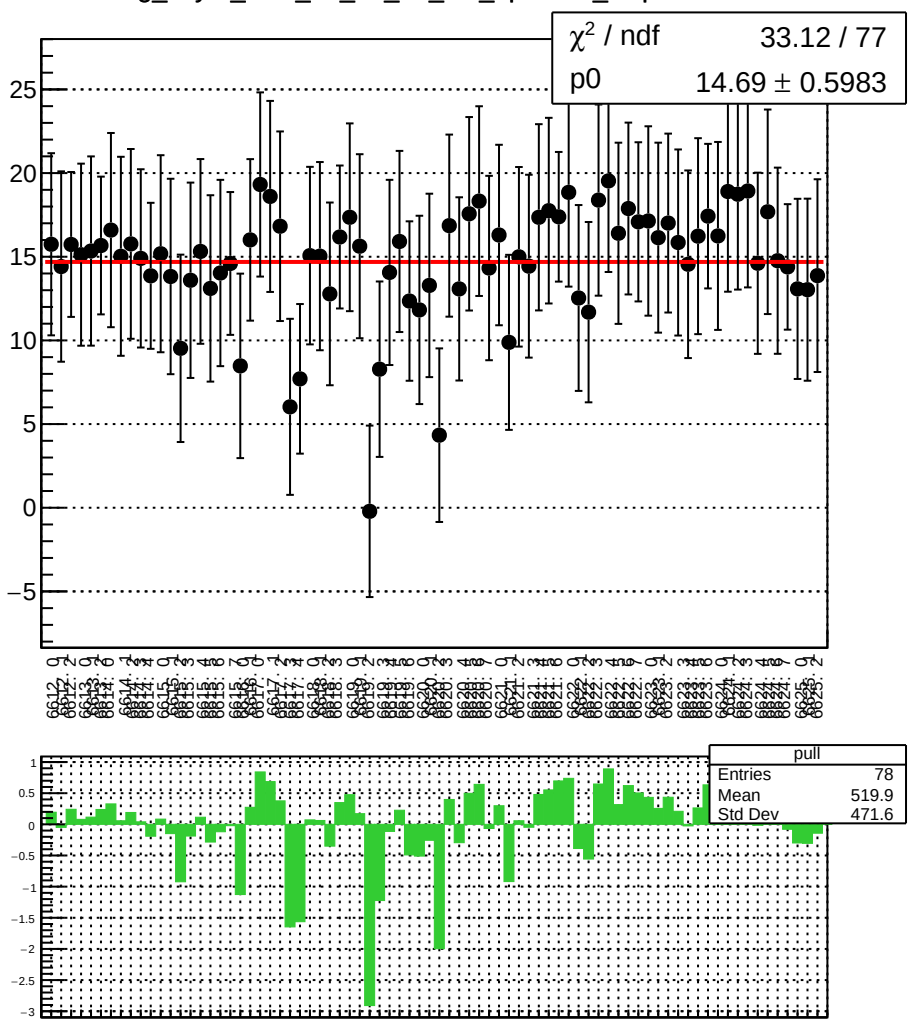

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 6.767 / 77
p0 0.304 ± 0.04402
pull
Entries 78
Mean 1360
Std Dev 1319

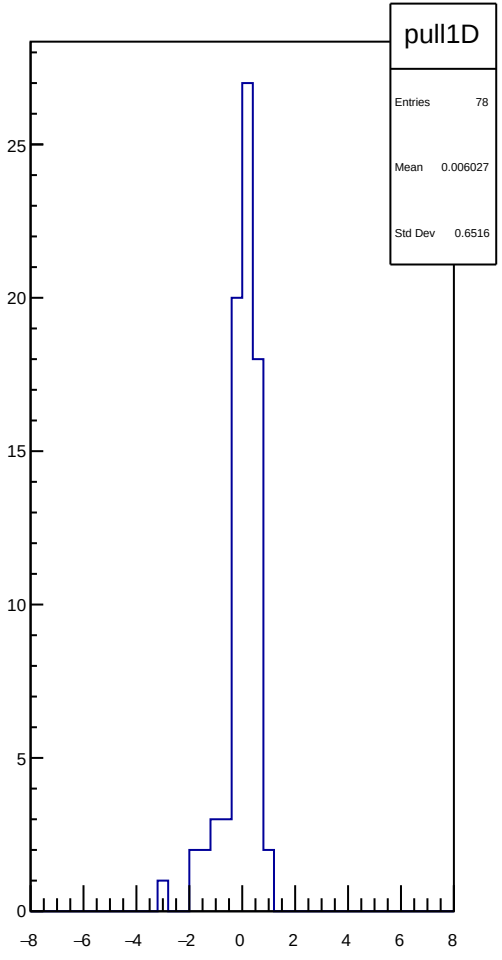

pull1D
Entries 78
Mean −0.002028
Std Dev 0.2945

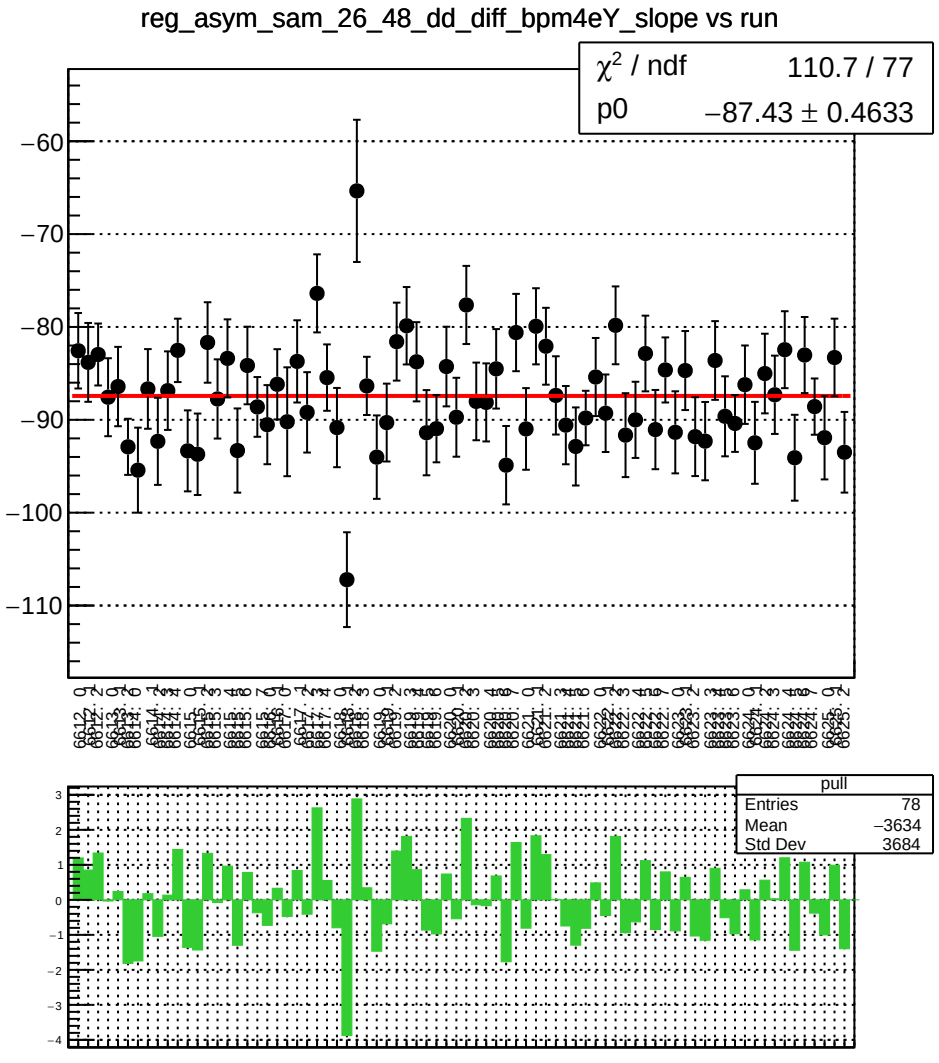

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 37.67 / 77
p0 6.622 ± 0.561
pull
Entries 78
Mean 500.3
Std Dev 445.7

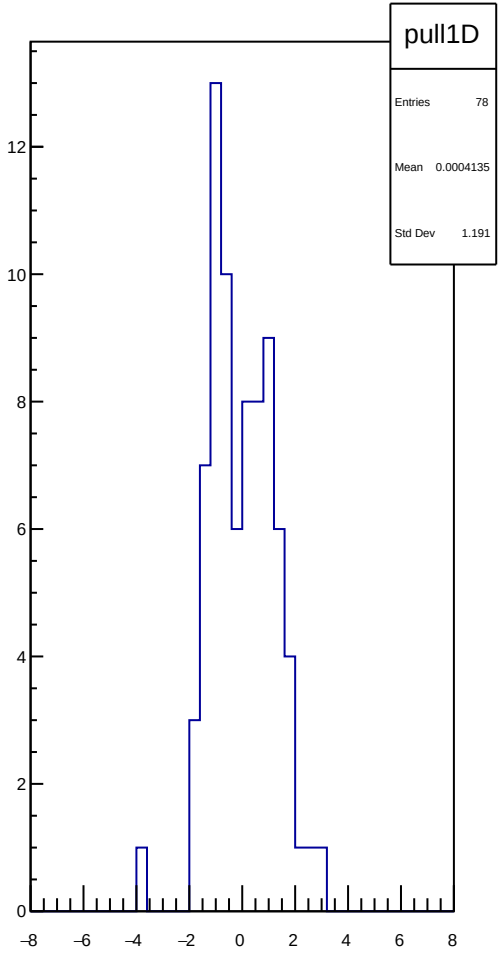

pull1D
Entries 78
Mean −0.00499
Std Dev 0.6949

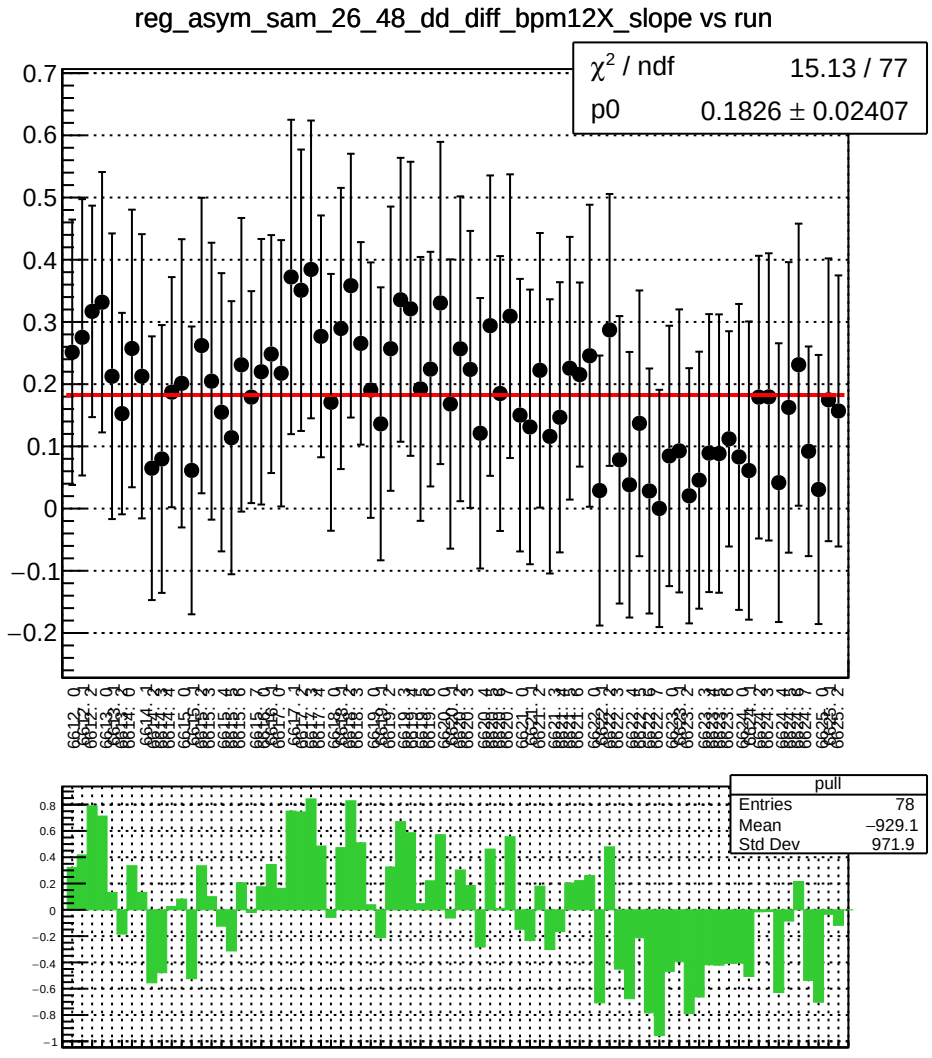

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.52 / 77
p0 8.745 ± 0.3862
pull
Entries 78
Mean −165.8
Std Dev 223.7
pull1D
Entries 78
Mean −0.007795
Std Dev 0.9304

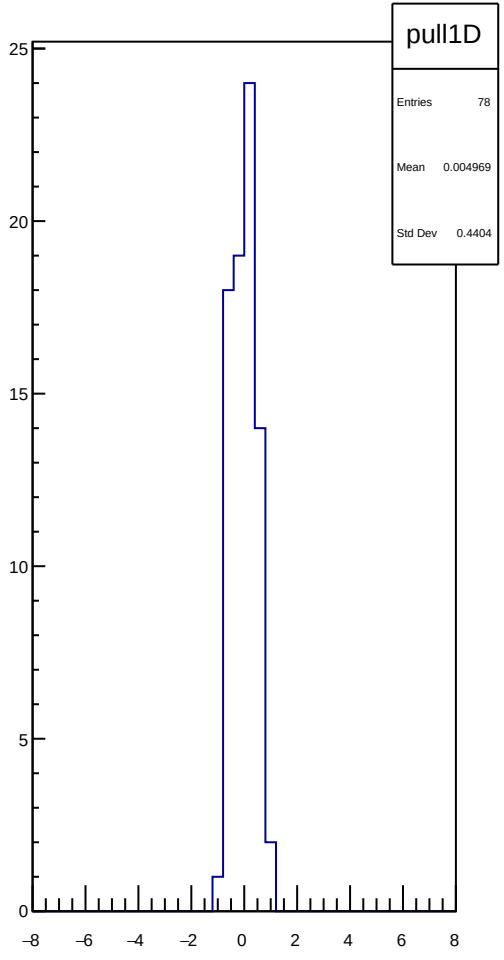

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.12 / 77
p0 14.69 ± 0.5983
pull
Entries 78
Mean 519.9
Std Dev 471.6

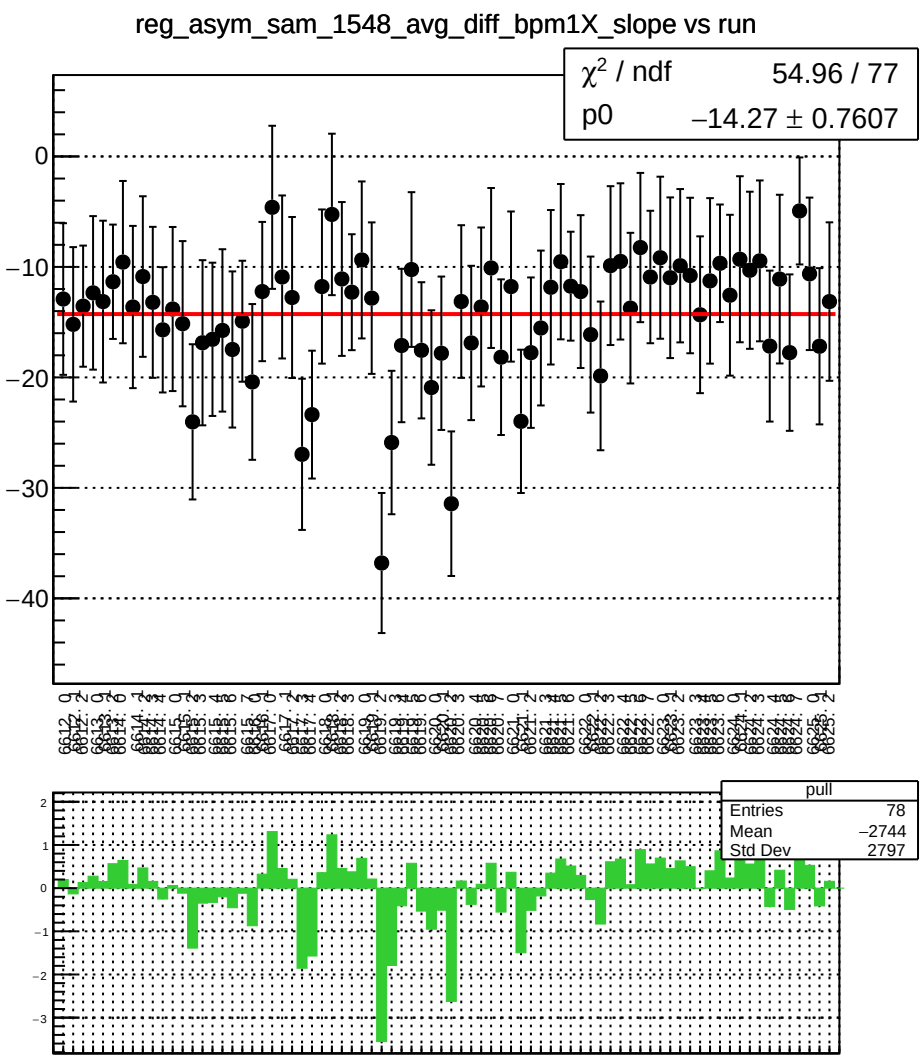

pull1D
Entries 78
Mean 0.006027
Std Dev 0.6516

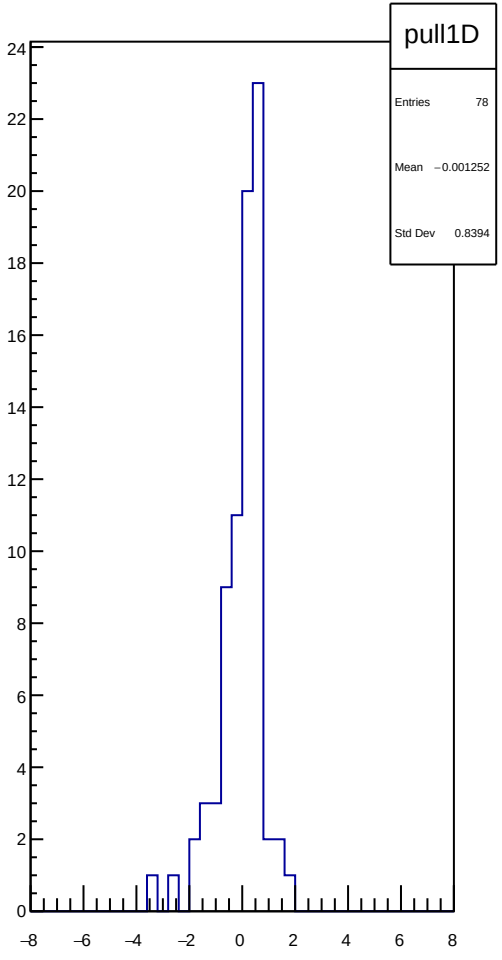

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 110.7 / 77
p0 −87.43 ± 0.4633
pull
Entries 78
Mean −3634
Std Dev 3684

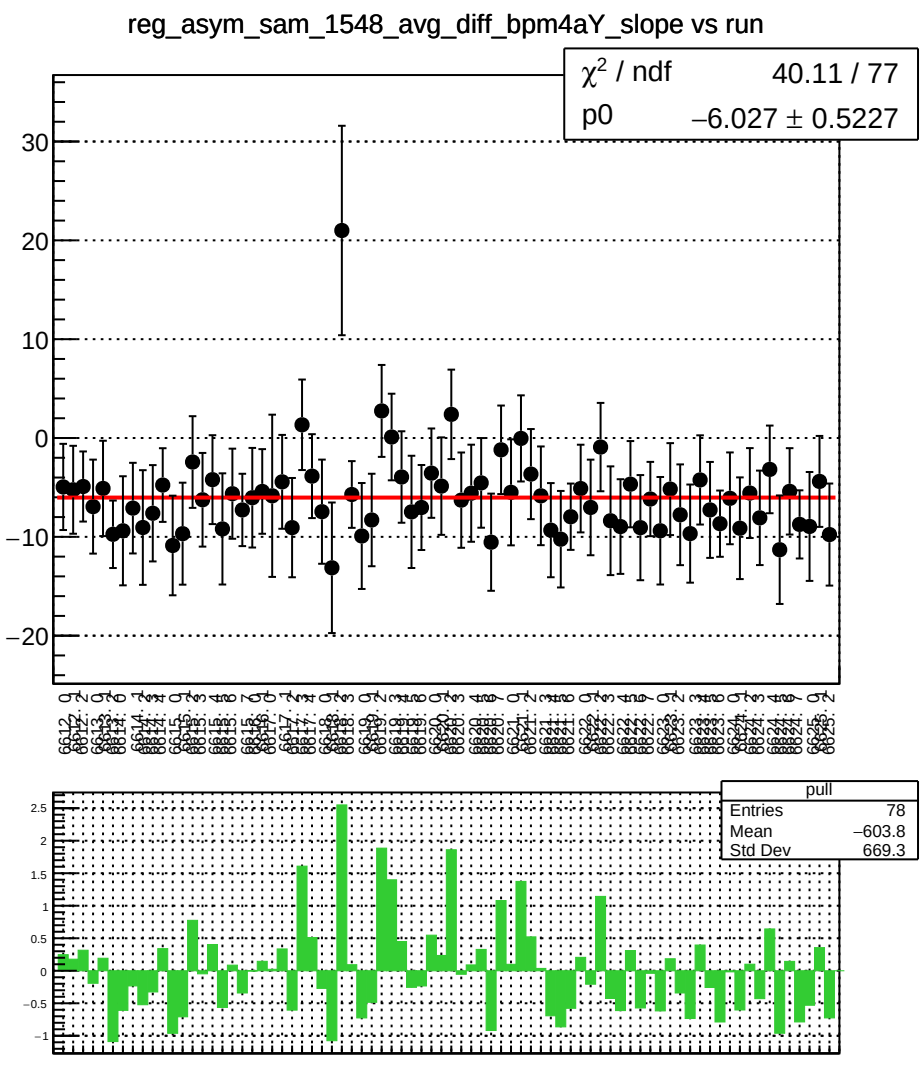

pull1D
Entries 78
Mean 0.0004135
Std Dev 1.191

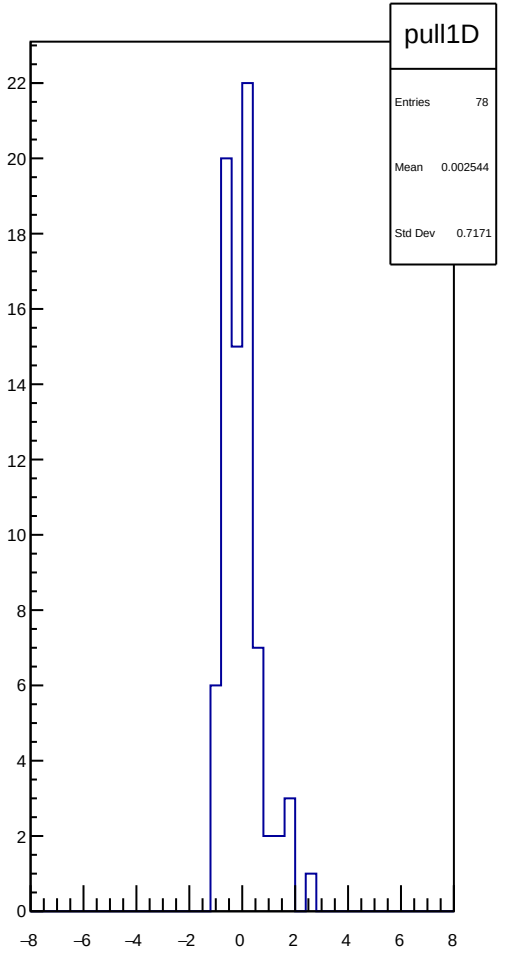

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.13 / 77
p0 0.1826 ± 0.02407
pull
Entries 78
Mean −929.1
Std Dev 971.9

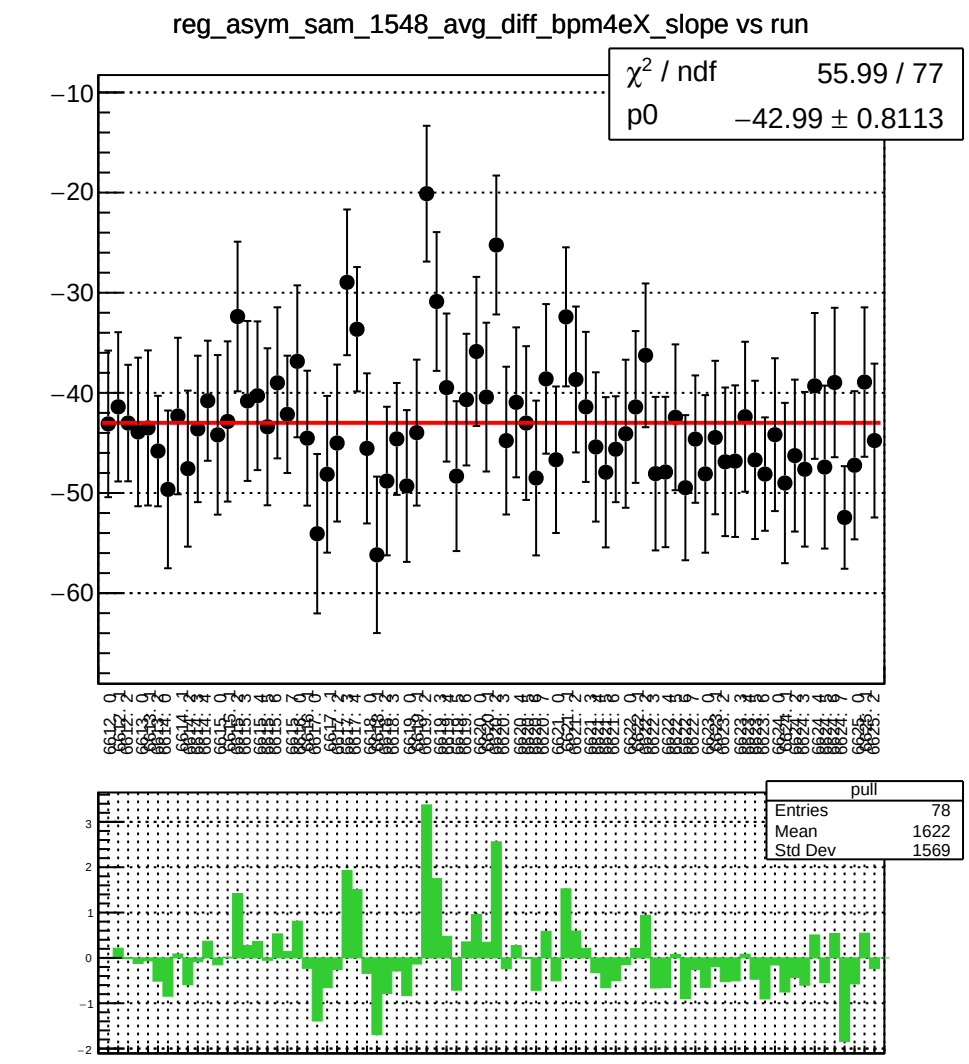

pull1D
Entries 78
Mean 0.004969
Std Dev 0.4404

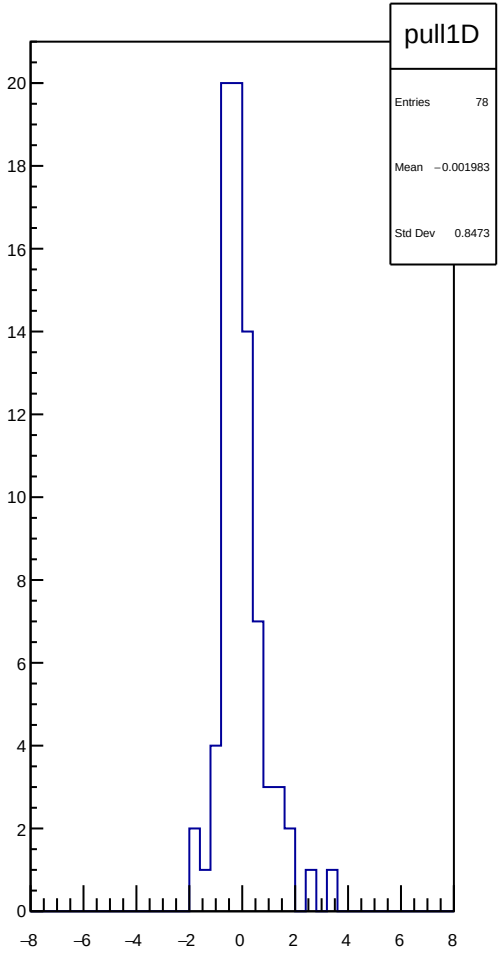

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 54.96 / 77
p0 −14.27 ± 0.7607
pull
Entries 78
Mean −2744
Std Dev 2797

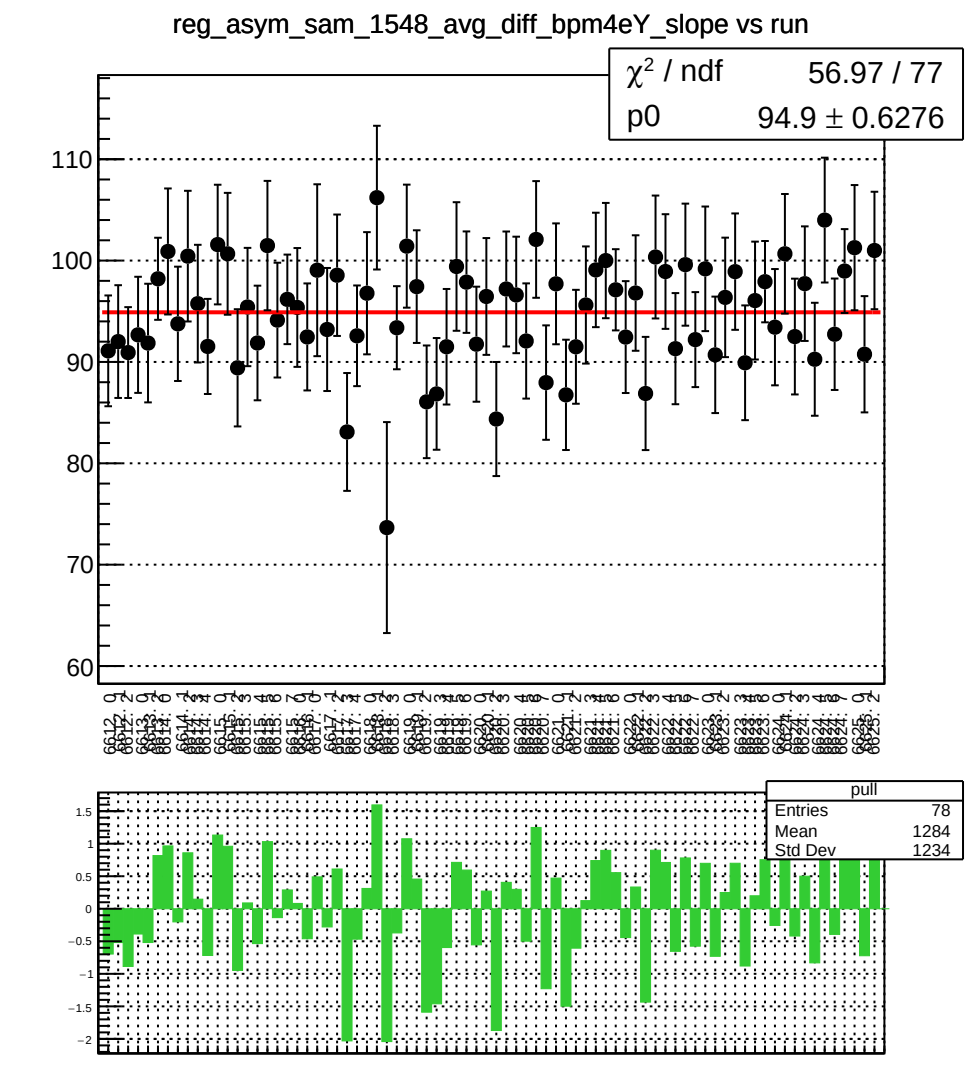

pull1D
Entries 78
Mean −0.001252
Std Dev 0.8394

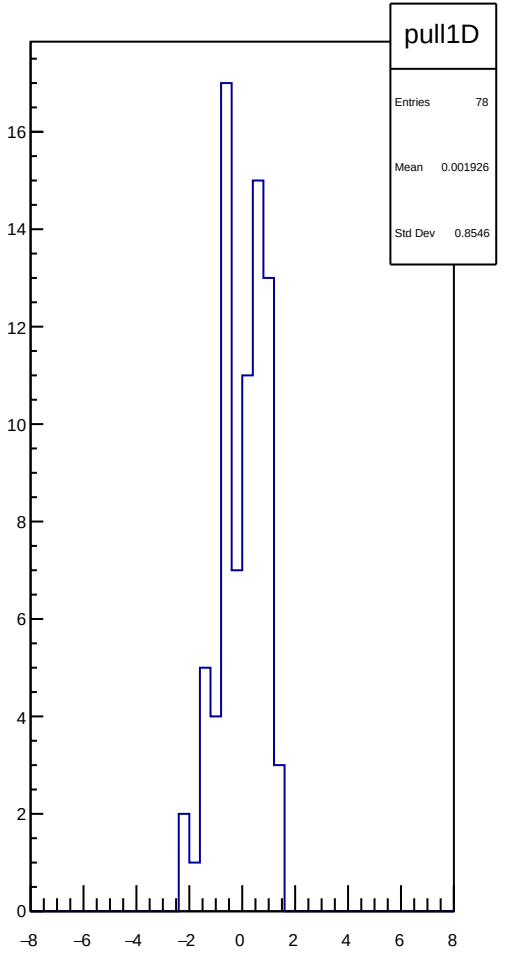

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.11 / 77
p0 −6.027 ± 0.5227
pull
Entries 78
Mean −603.8
Std Dev 669.3

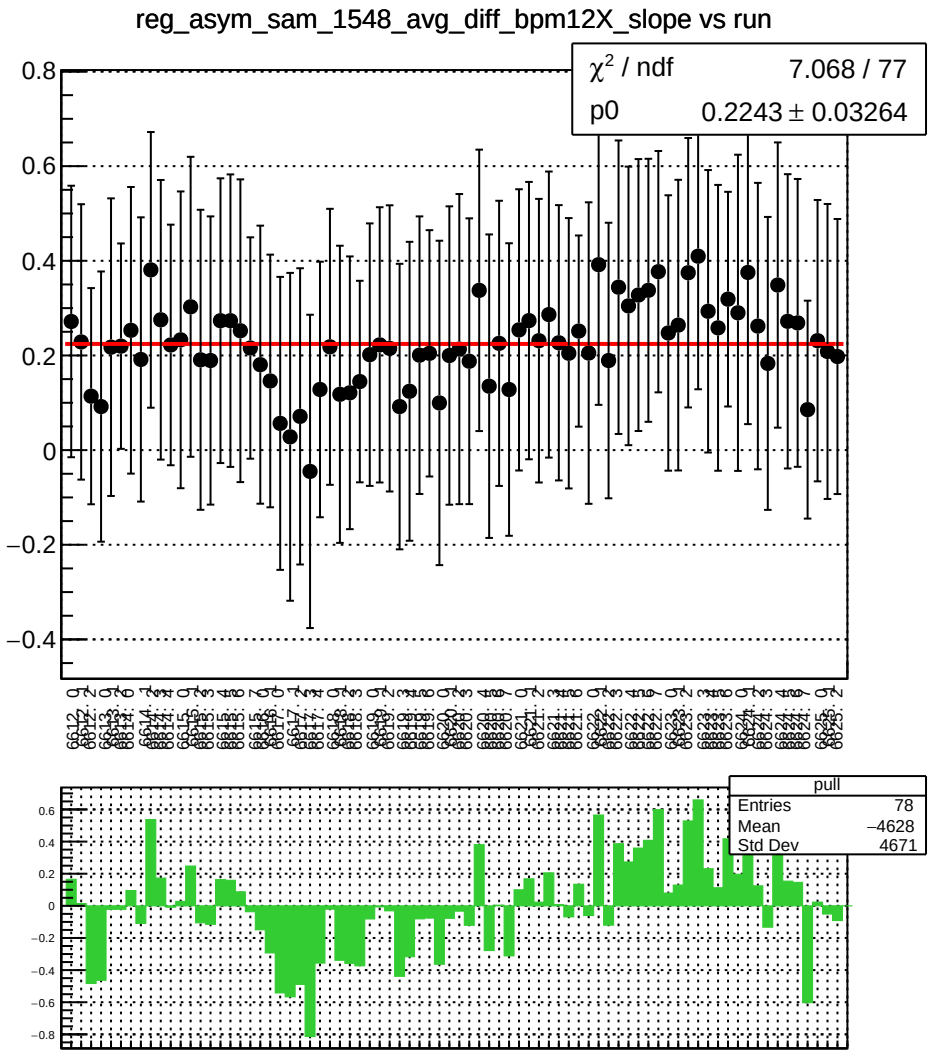

pull1D
Entries 78
Mean 0.002544
Std Dev 0.7171

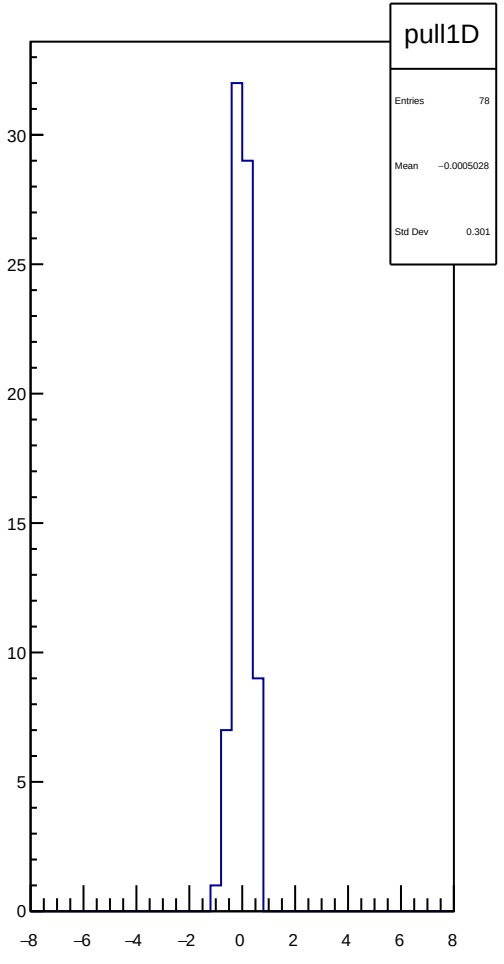

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.99 / 77
p0 −42.99 ± 0.8113
pull
Entries 78
Mean 1622
Std Dev 1569

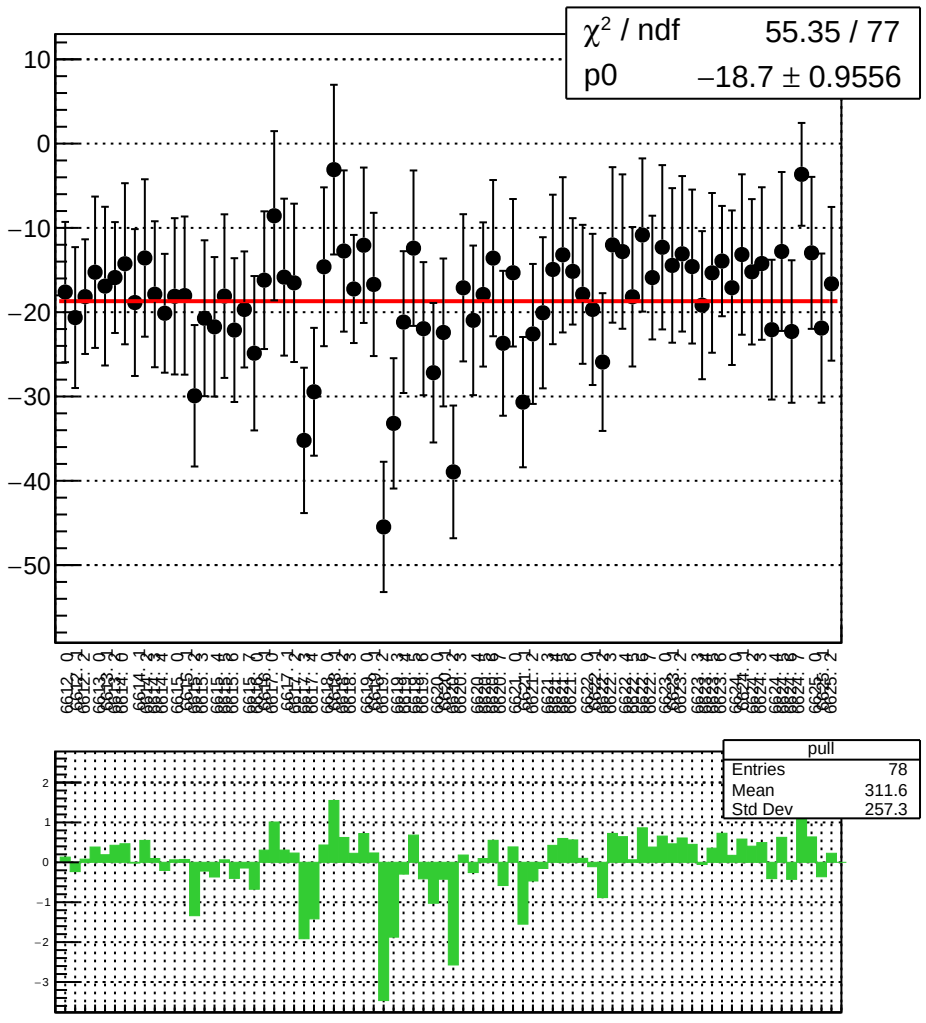

pull1D
Entries 78
Mean −0.001983
Std Dev 0.8473

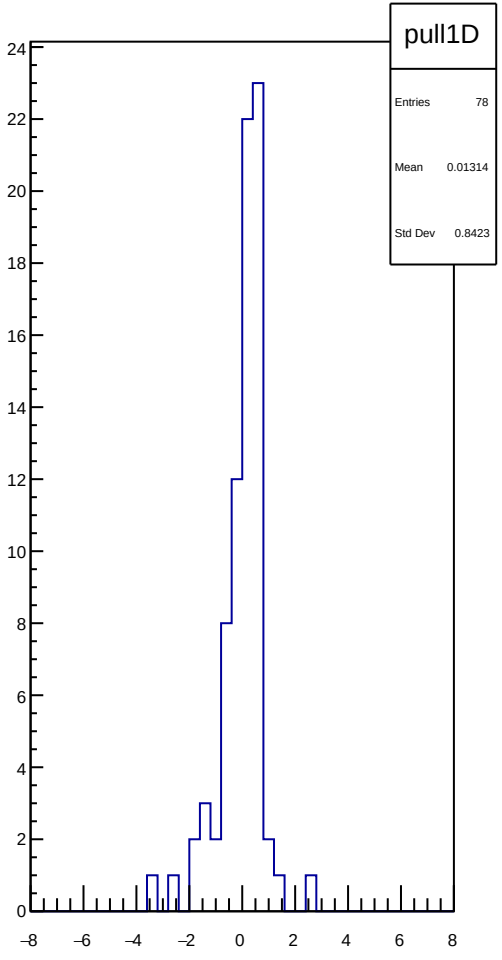

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.97 / 77
p0 94.9 ± 0.6276
pull
Entries 78
Mean 1284
Std Dev 1234

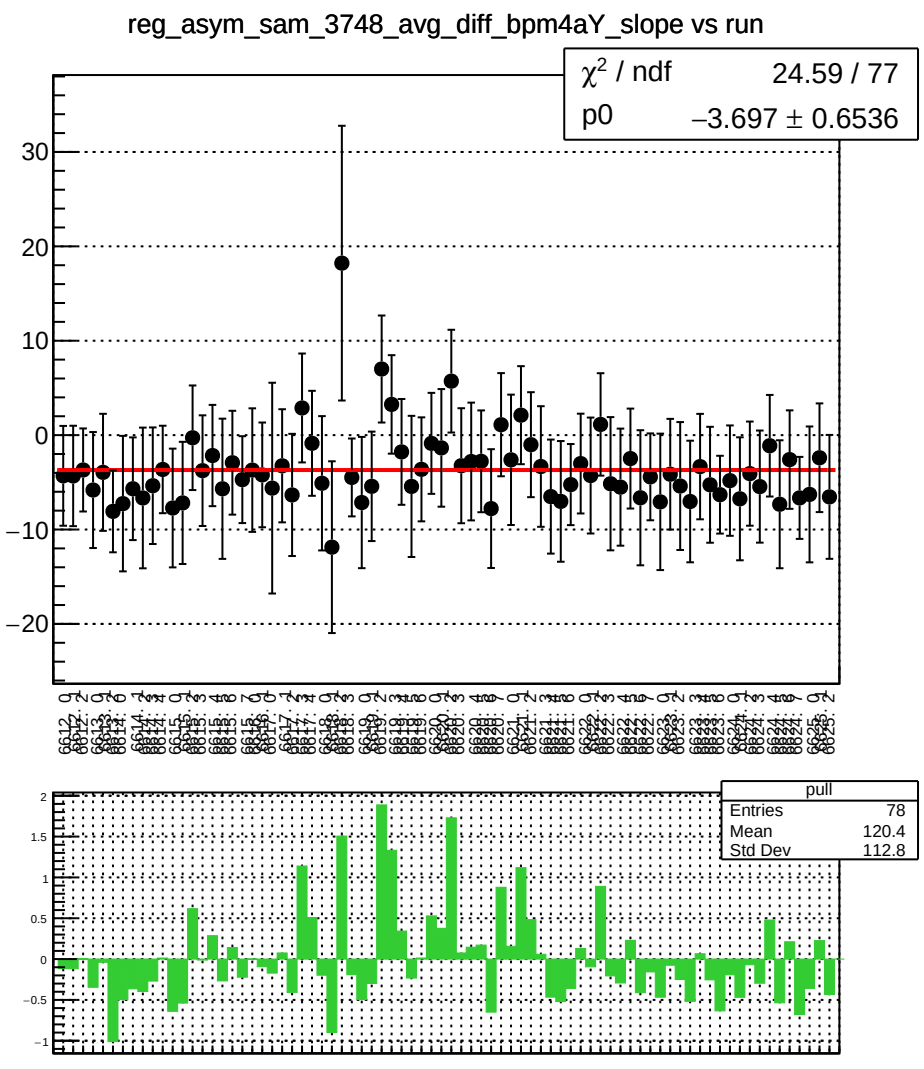

pull1D
Entries 78
Mean 0.001926
Std Dev 0.8546

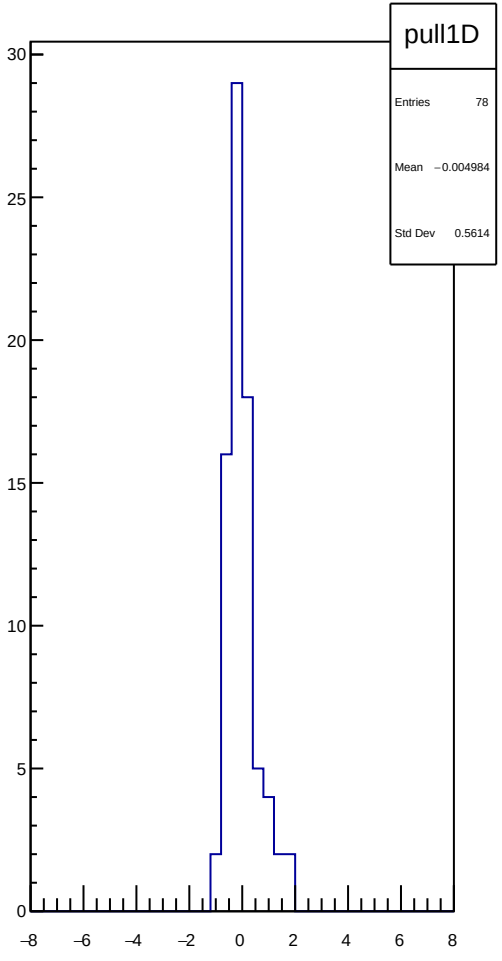

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 7.068 / 77
p0 0.2243 ± 0.03264
pull
Entries 78
Mean −4628
Std Dev 4671

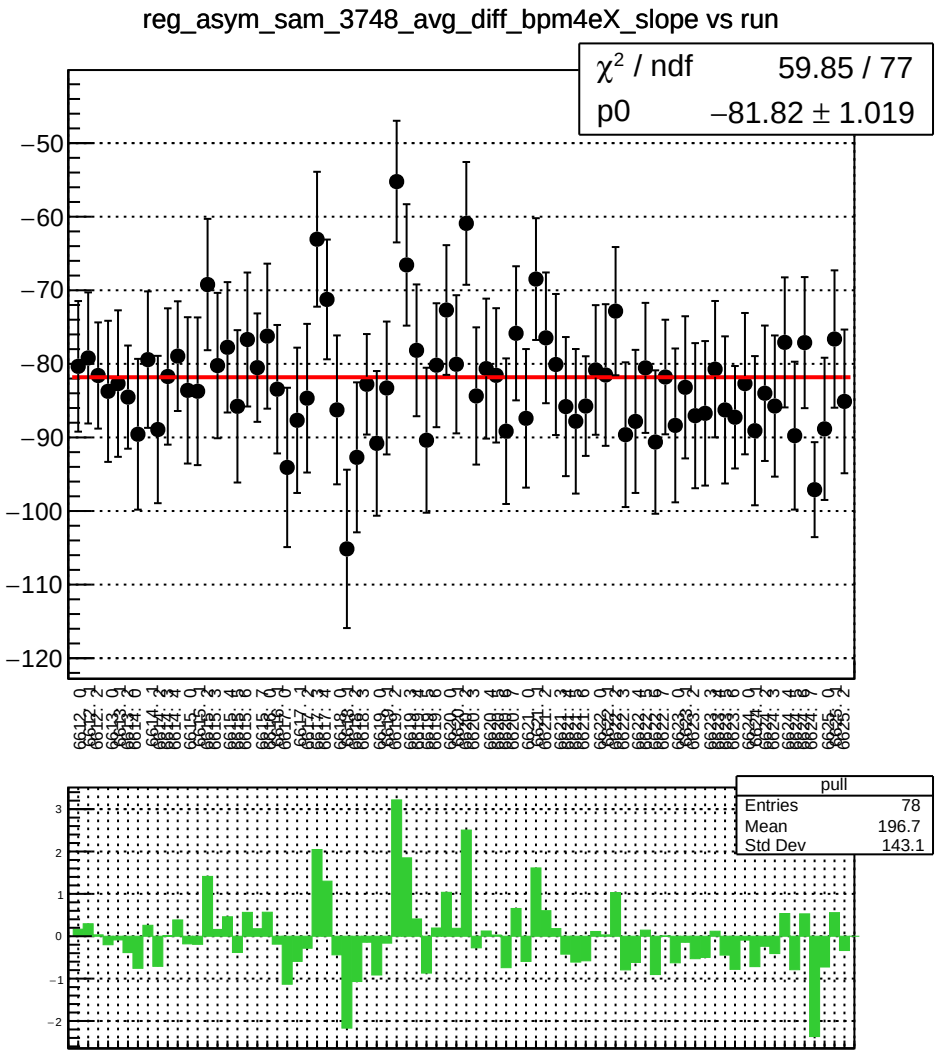

pull1D
Entries 78
Mean −0.0005028
Std Dev 0.301

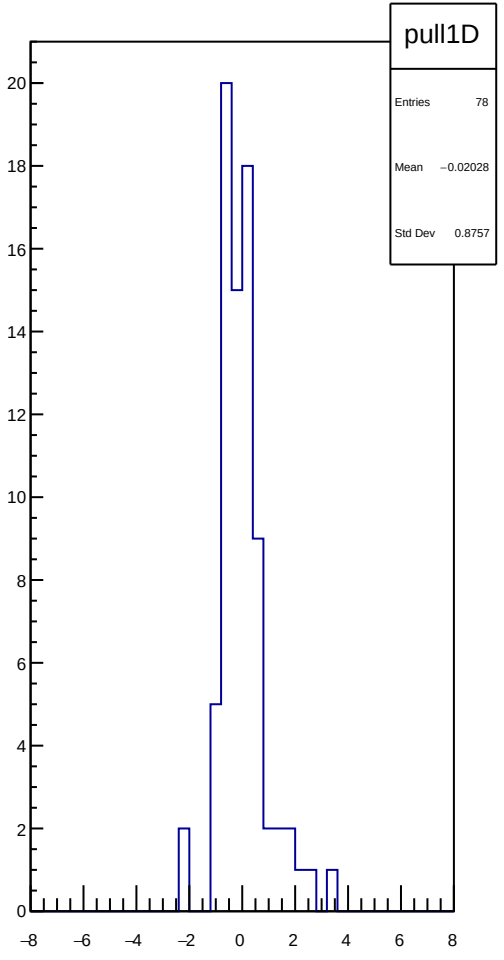

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 55.35 / 77
p0 −18.7 ± 0.9556
pull
Entries 78
Mean 311.6
Std Dev 257.3

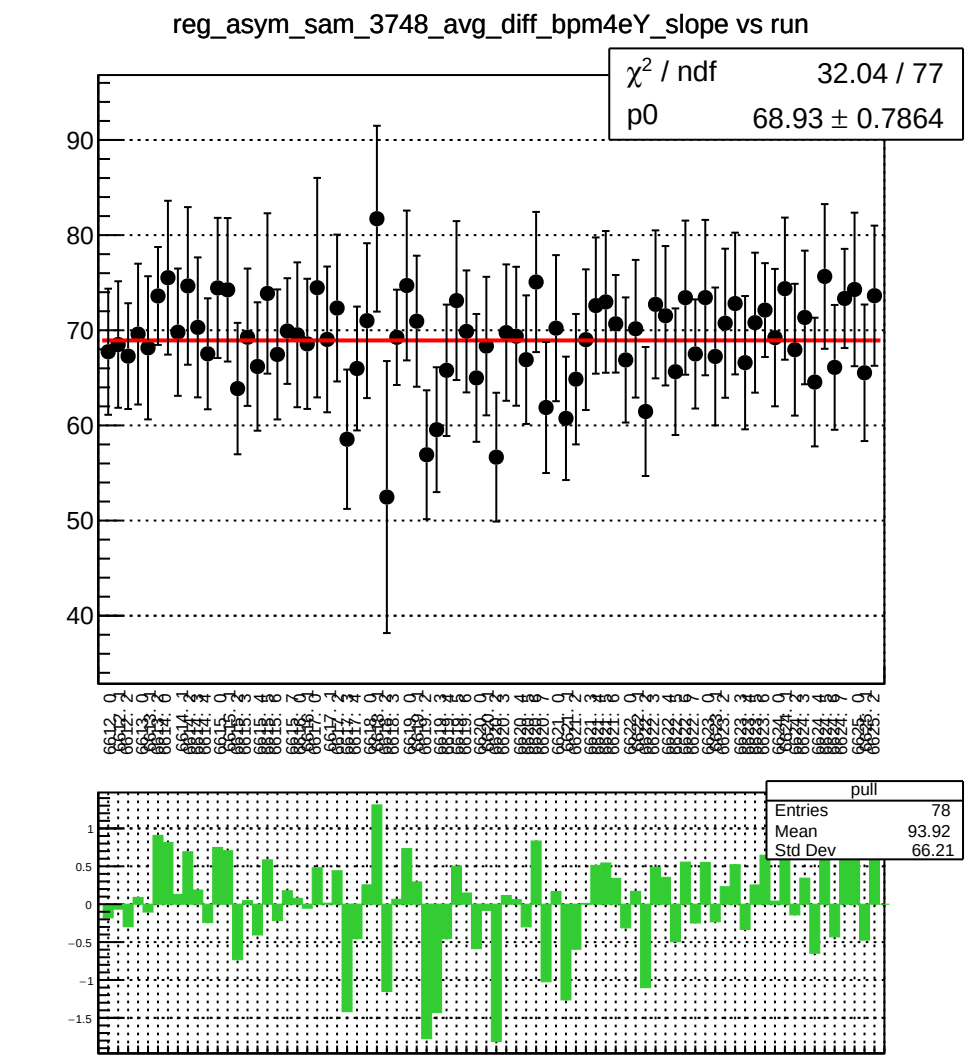

pull1D
Entries 78
Mean 0.01314
Std Dev 0.8423

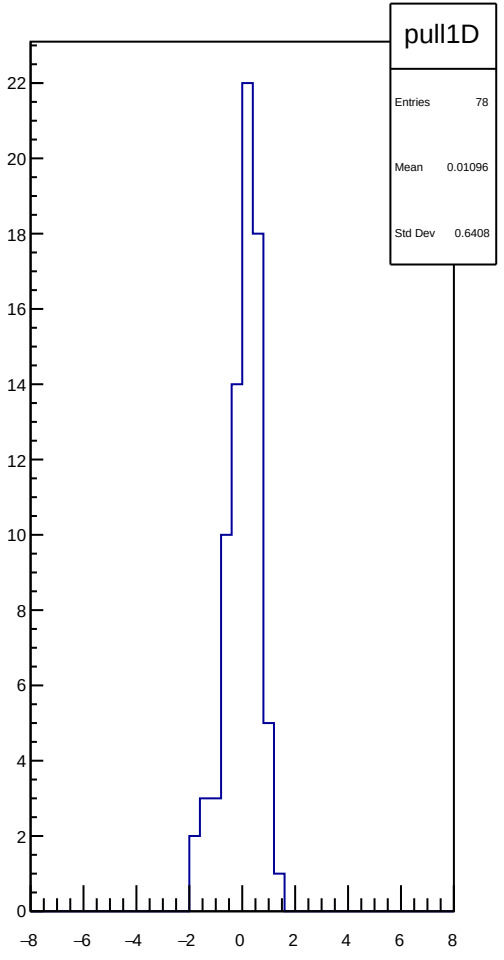

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.59 / 77
p0 −3.697 ± 0.6536
pull
Entries 78
Mean 120.4
Std Dev 112.8

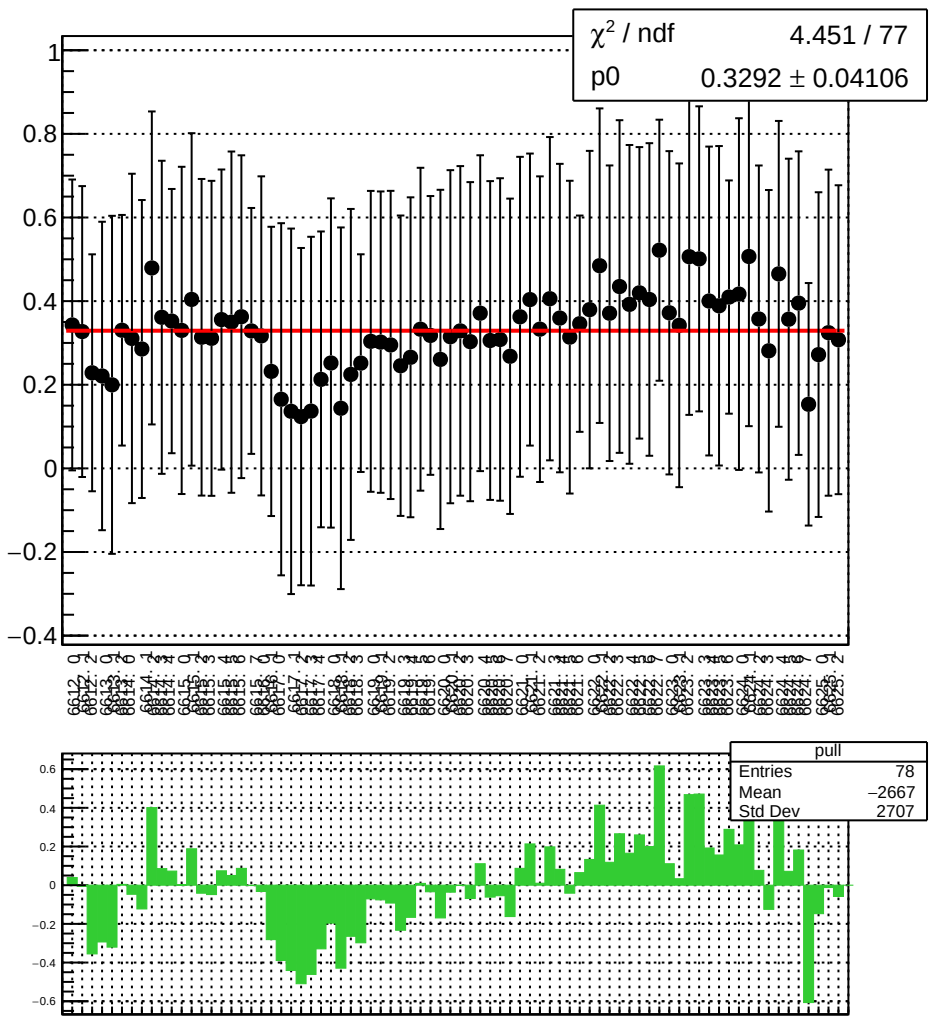

pull1D
Entries 78
Mean −0.004984
Std Dev 0.5614

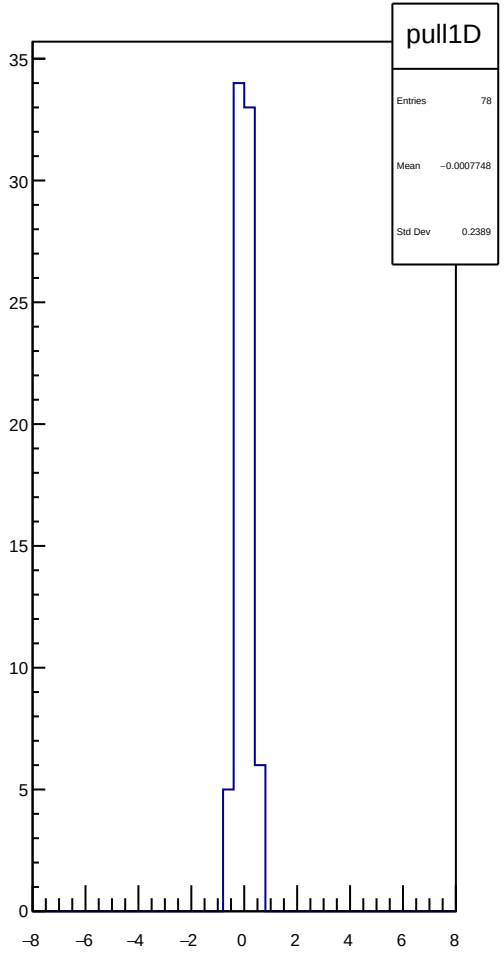

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.85 / 77
p0 −81.82 ± 1.019
pull
Entries 78
Mean 196.7
Std Dev 143.1

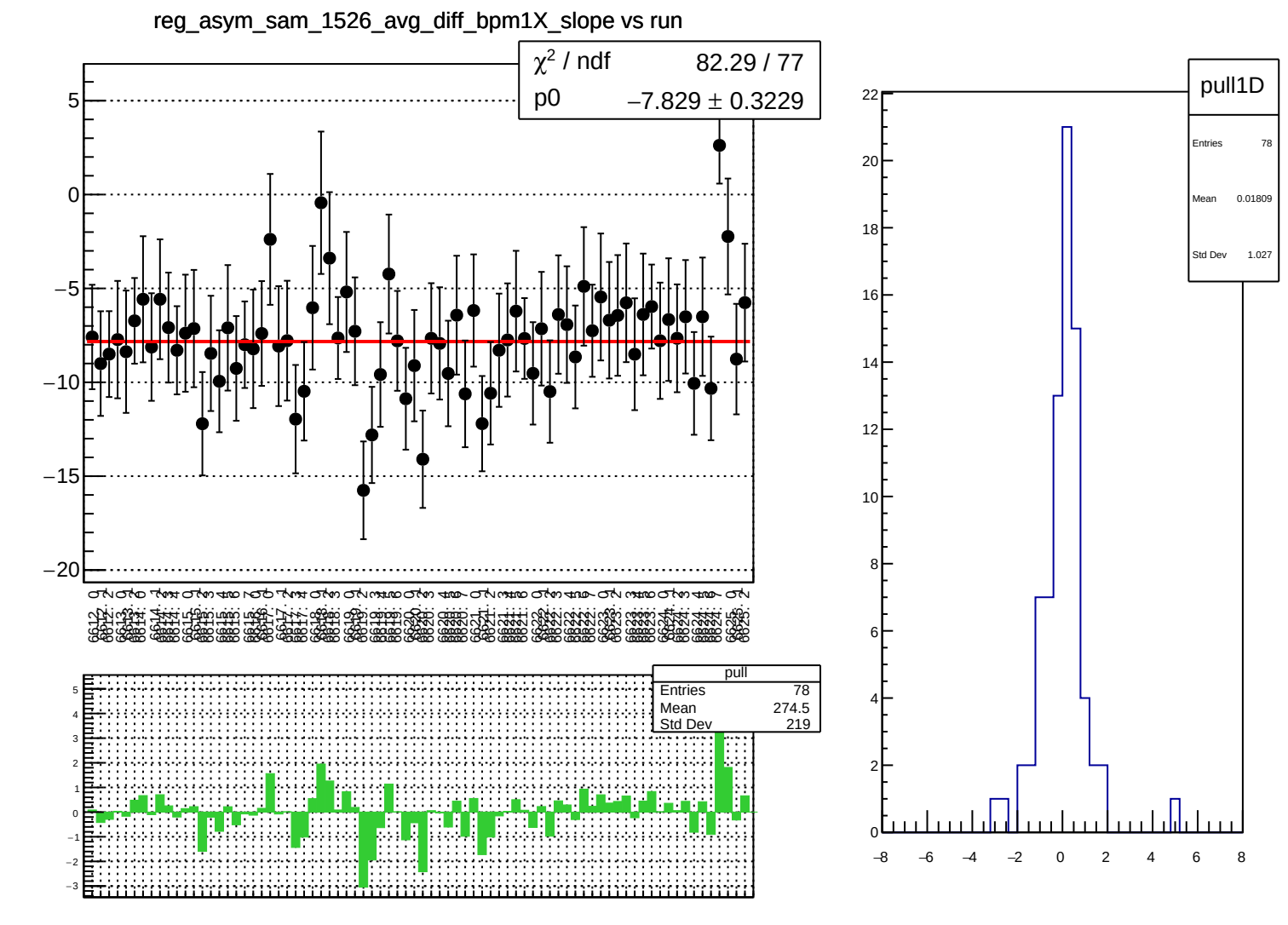

pull1D
Entries 78
Mean −0.02028
Std Dev 0.8757

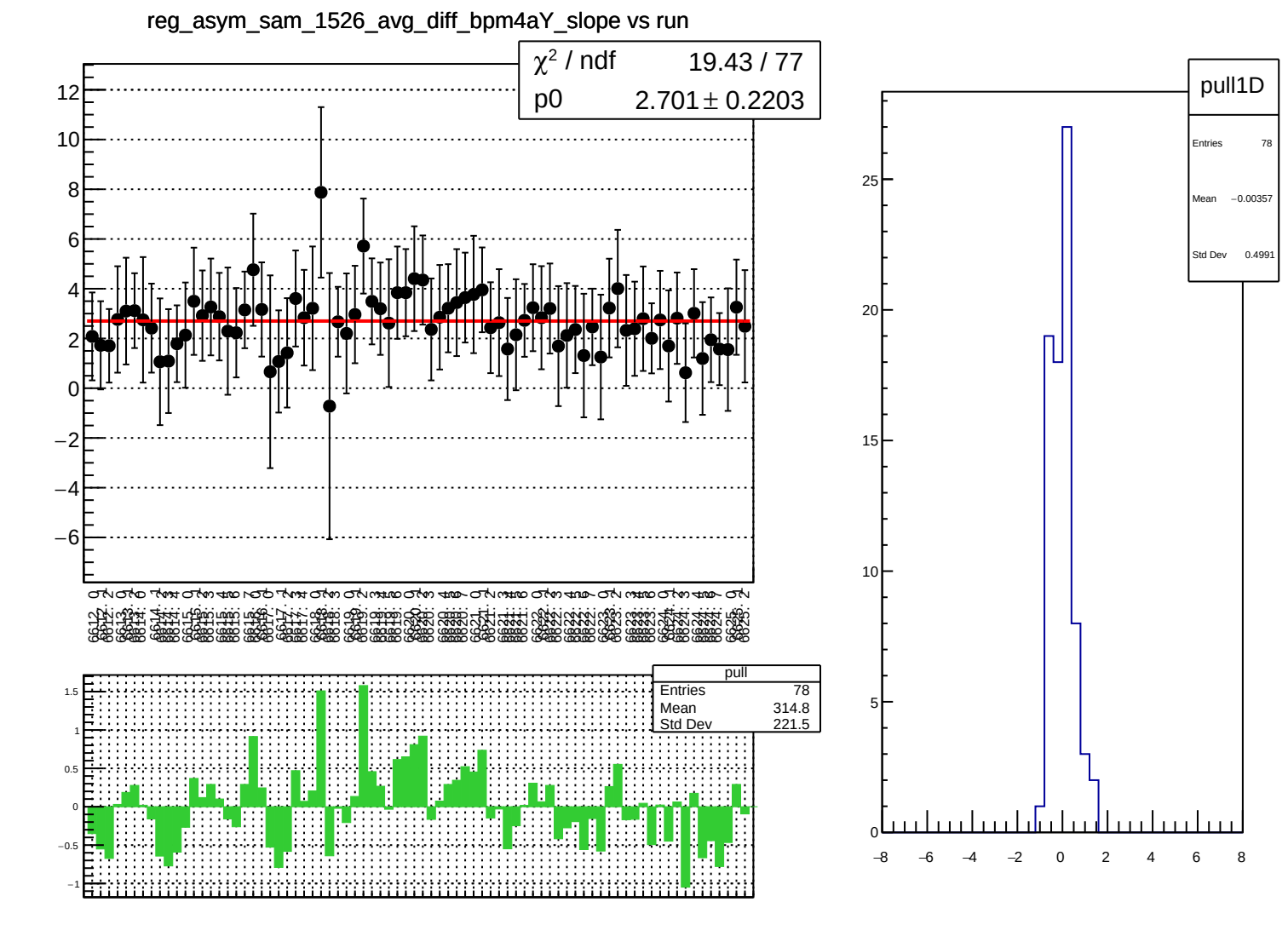

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.04 / 77
p0 68.93 ± 0.7864
pull
Entries 78
Mean 93.92
Std Dev 66.21

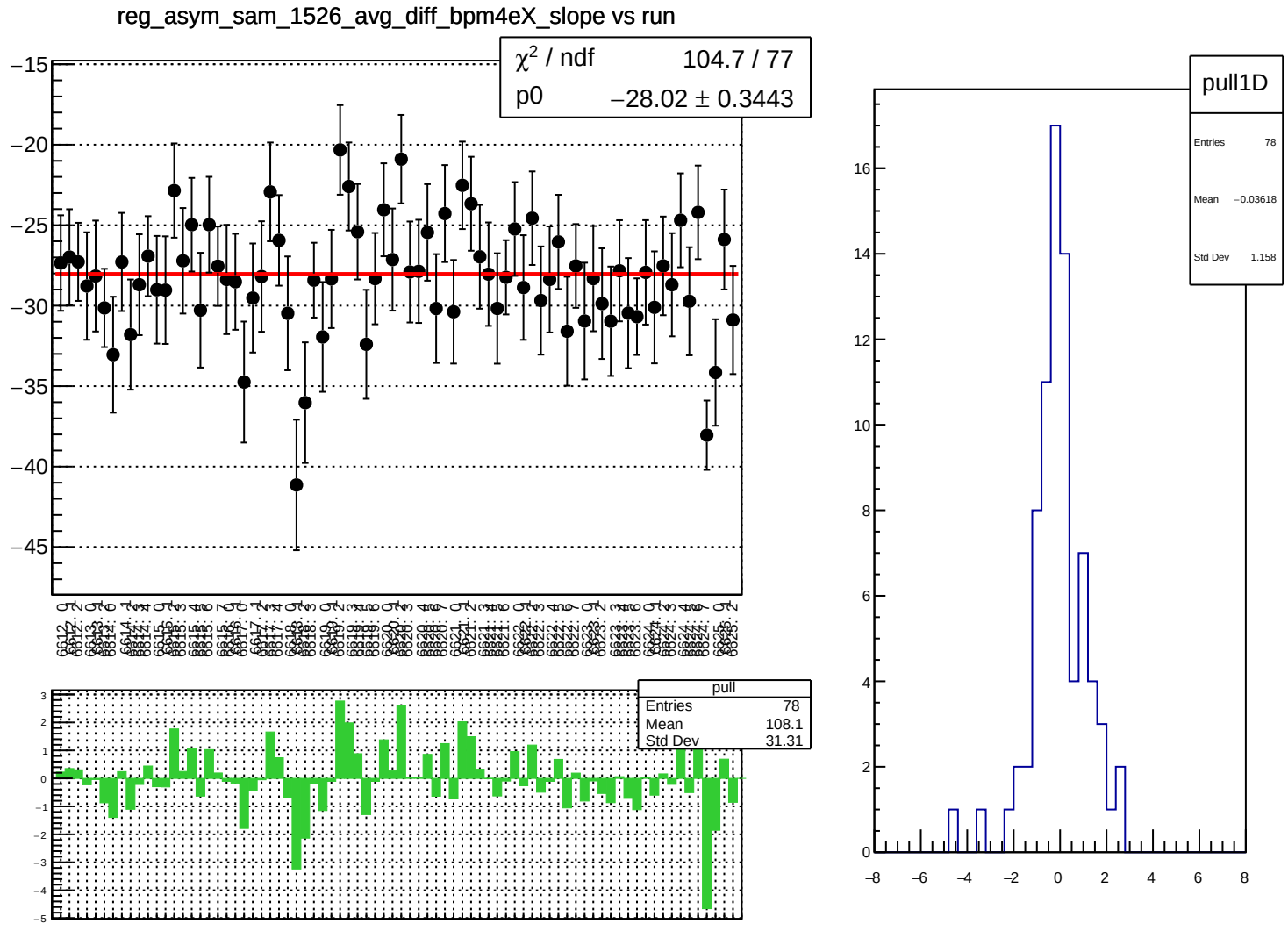

pull1D
Entries 78
Mean 0.01096
Std Dev 0.6408

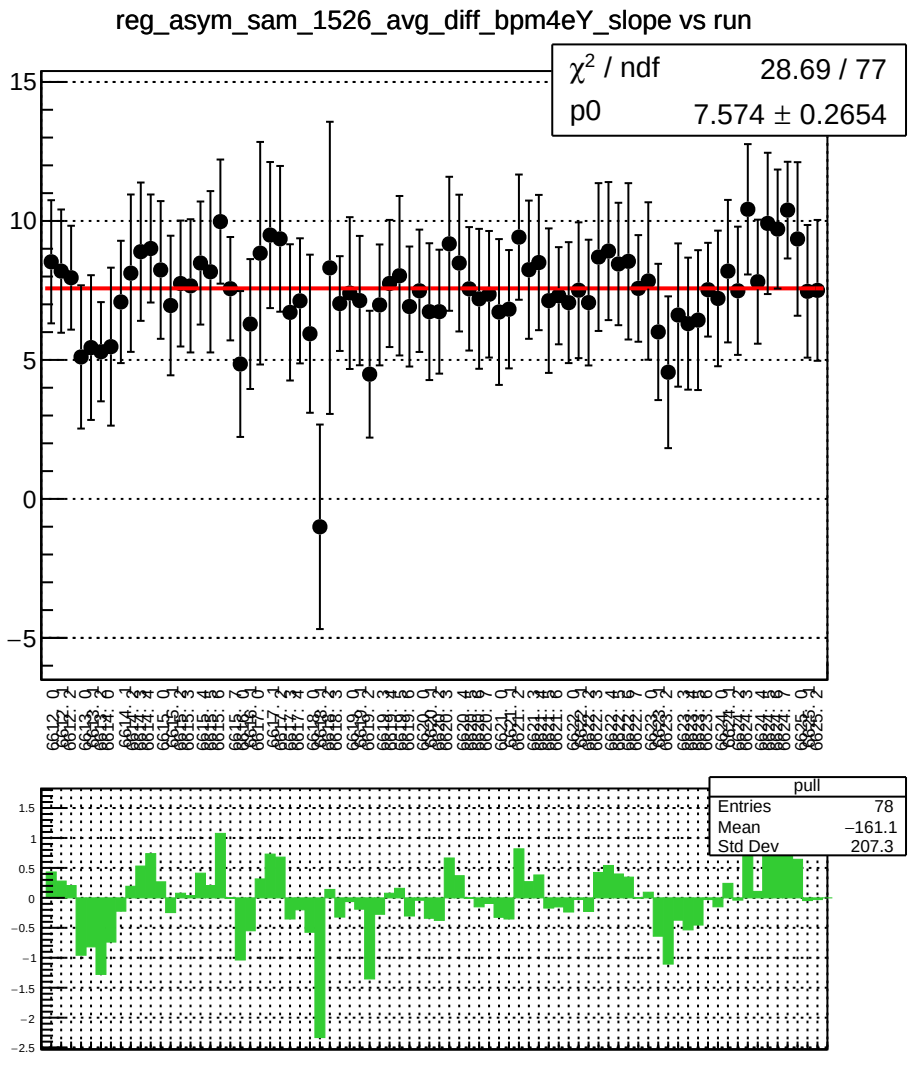

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 4.451 / 77
p0 0.3292 ± 0.04106
pull
Entries 78
Mean −2667
Std Dev 2707

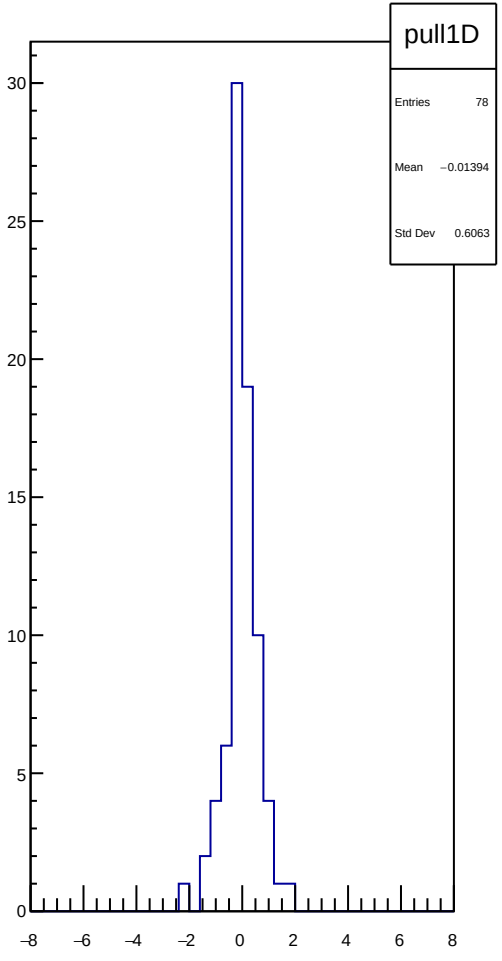

pull1D
Entries 78
Mean −0.0007748
Std Dev 0.2389

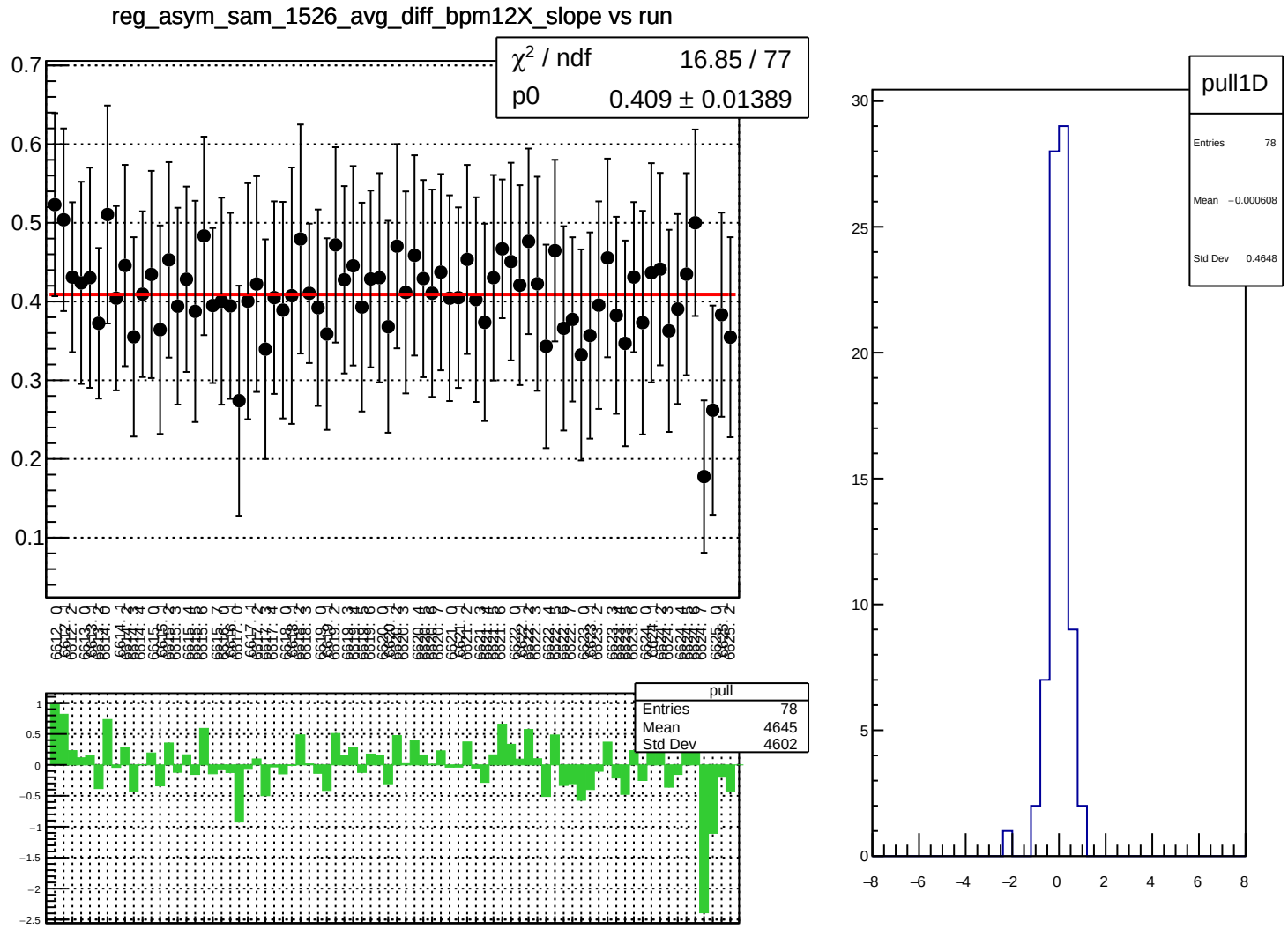

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 82.29 / 77
p0 −7.829 ± 0.3229
pull
Entries 78
Mean 274.5
Std Dev 219
pull1D
Entries 78
Mean 0.01809
Std Dev 1.027

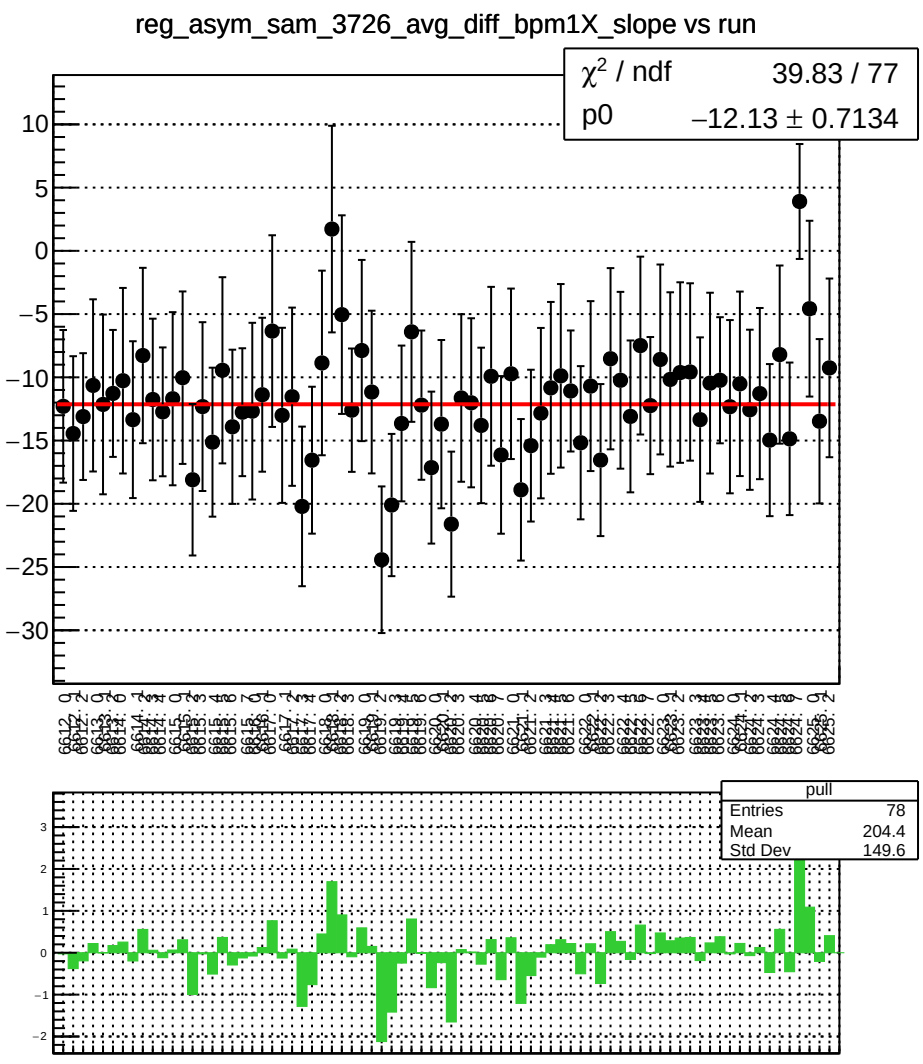

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.43 / 77
p0 2.701 ± 0.2203
pull
Entries 78
Mean 314.8
Std Dev 221.5
pull1D
Entries 78
Mean −0.00357
Std Dev 0.4991

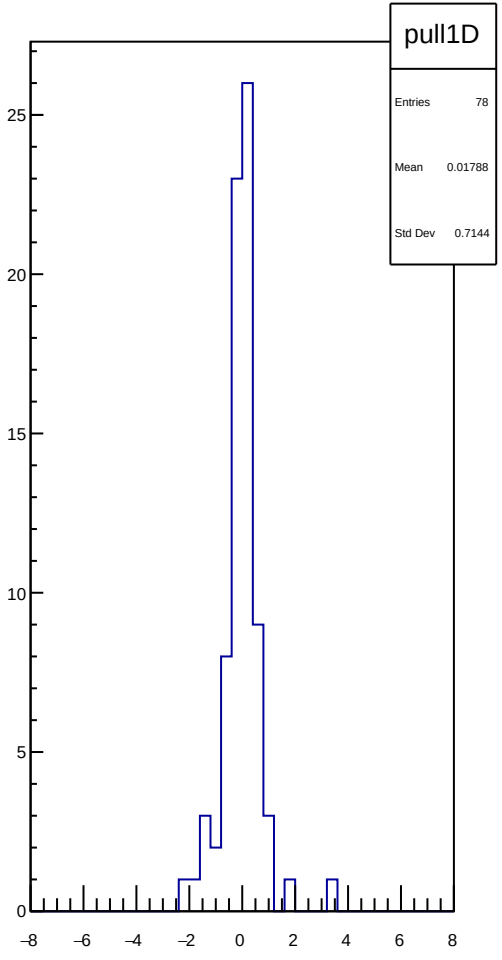

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.7 / 77
p0 −28.02 ± 0.3443
pull
Entries 78
Mean 108.1
Std Dev 31.31
pull1D
Entries 78
Mean −0.03618
Std Dev 1.158

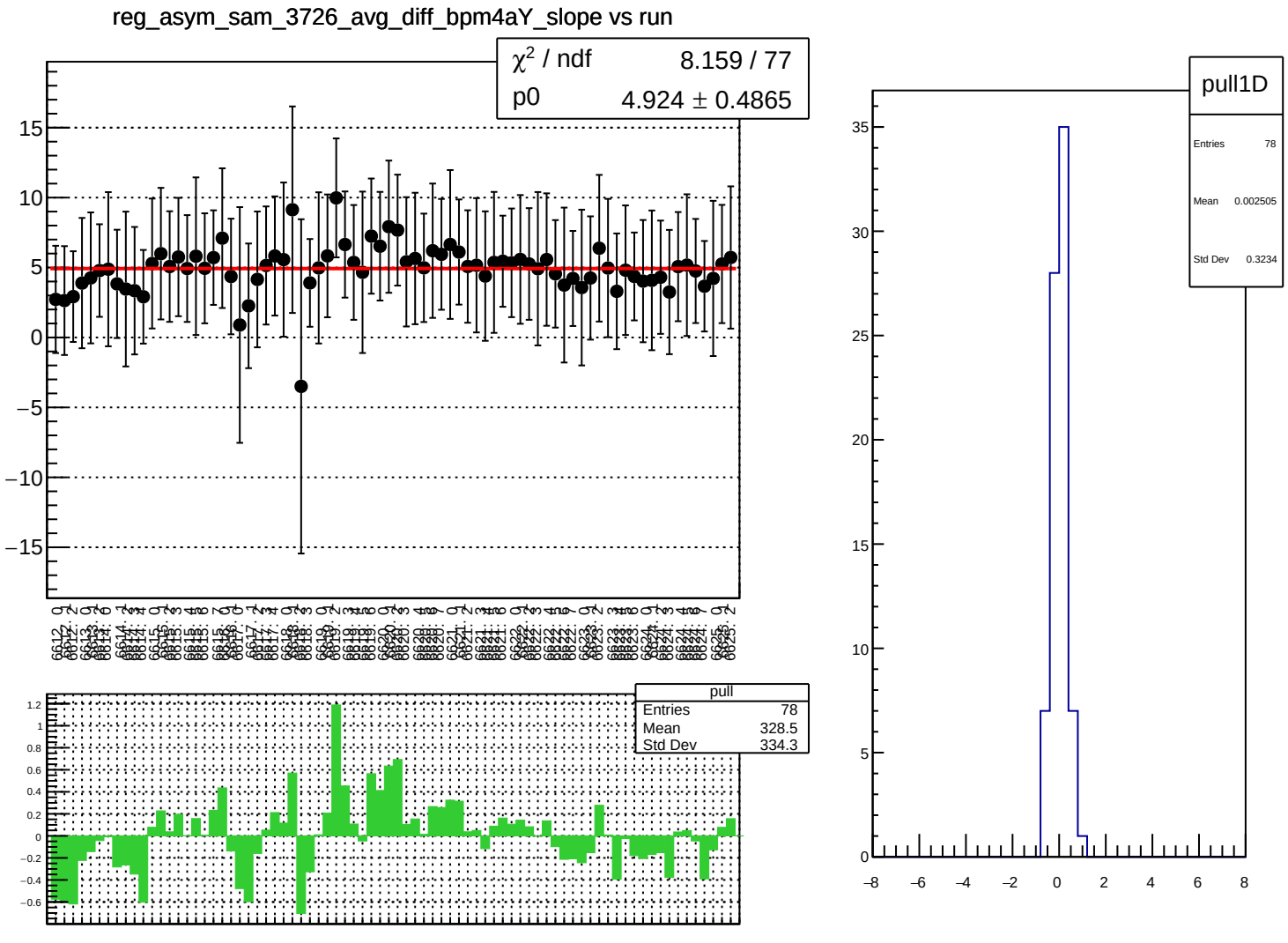

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.69 / 77
p0 7.574 ± 0.2654
pull
Entries 78
Mean −161.1
Std Dev 207.3

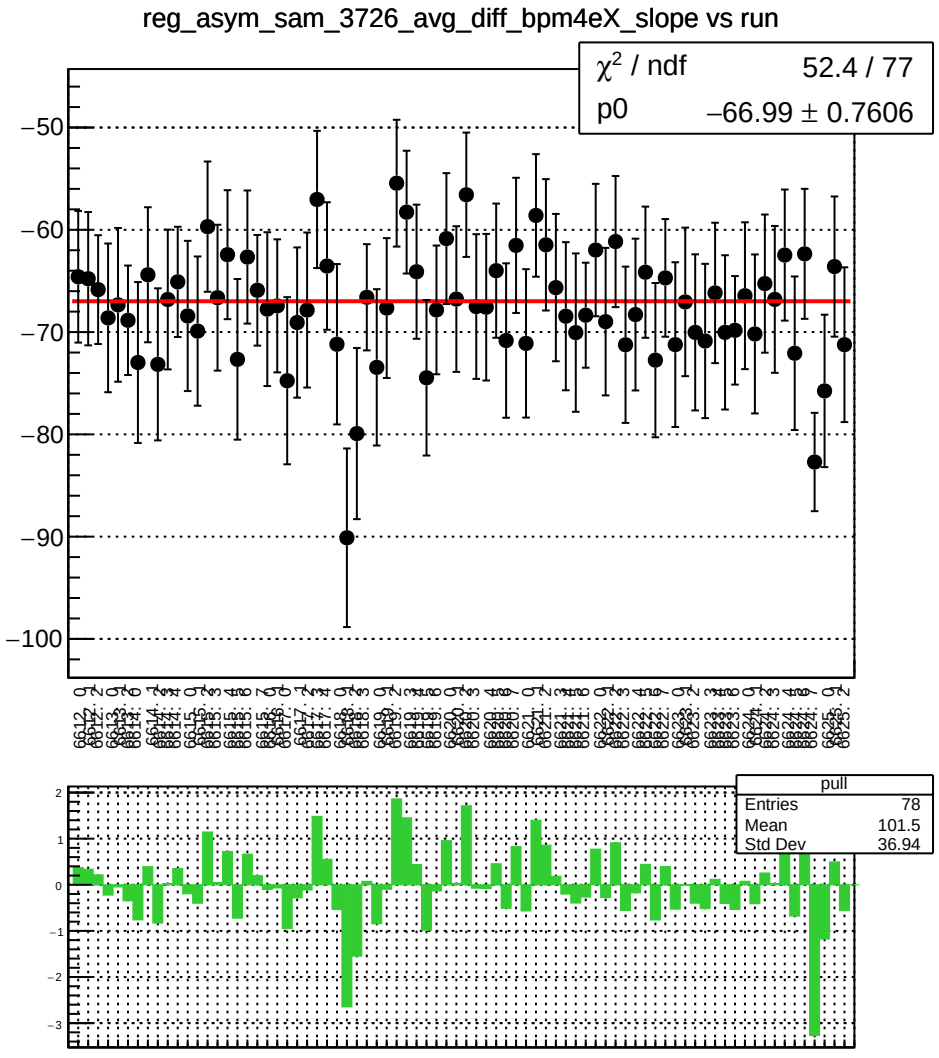

pull1D
Entries 78
Mean −0.01394
Std Dev 0.6063

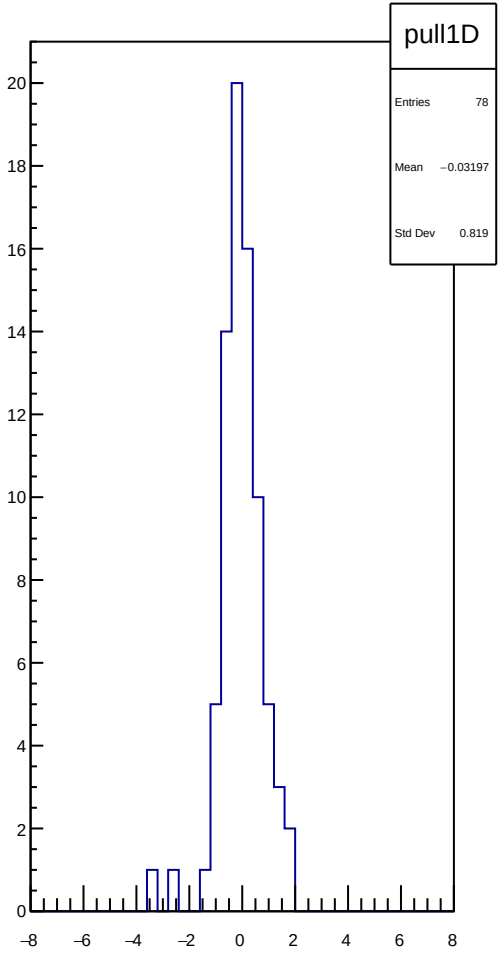

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 16.85 / 77
p0 0.409 ± 0.01389
pull
Entries 78
Mean 4645
Std Dev 4602
pull1D
Entries 78
Mean −0.000608
Std Dev 0.4648

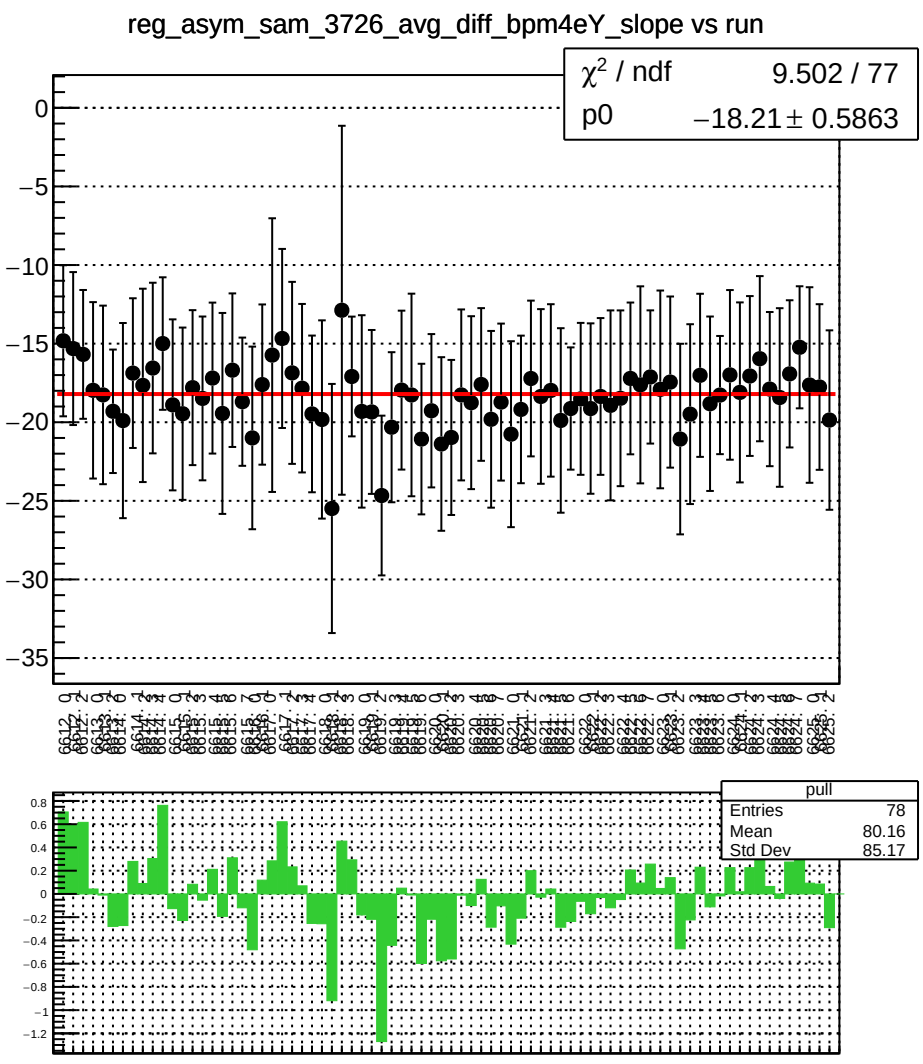

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 39.83 / 77
p0 −12.13 ± 0.7134
pull
Entries 78
Mean 204.4
Std Dev 149.6

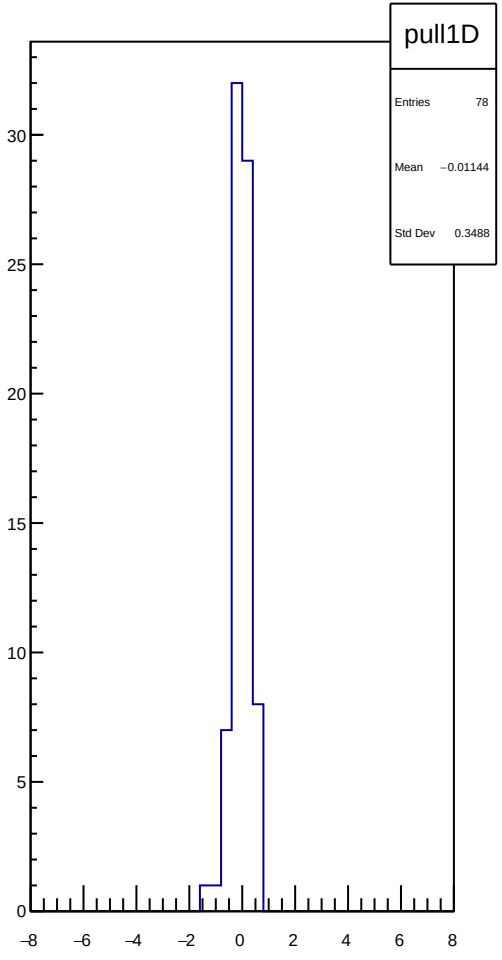

pull1D
Entries 78
Mean 0.01788
Std Dev 0.7144

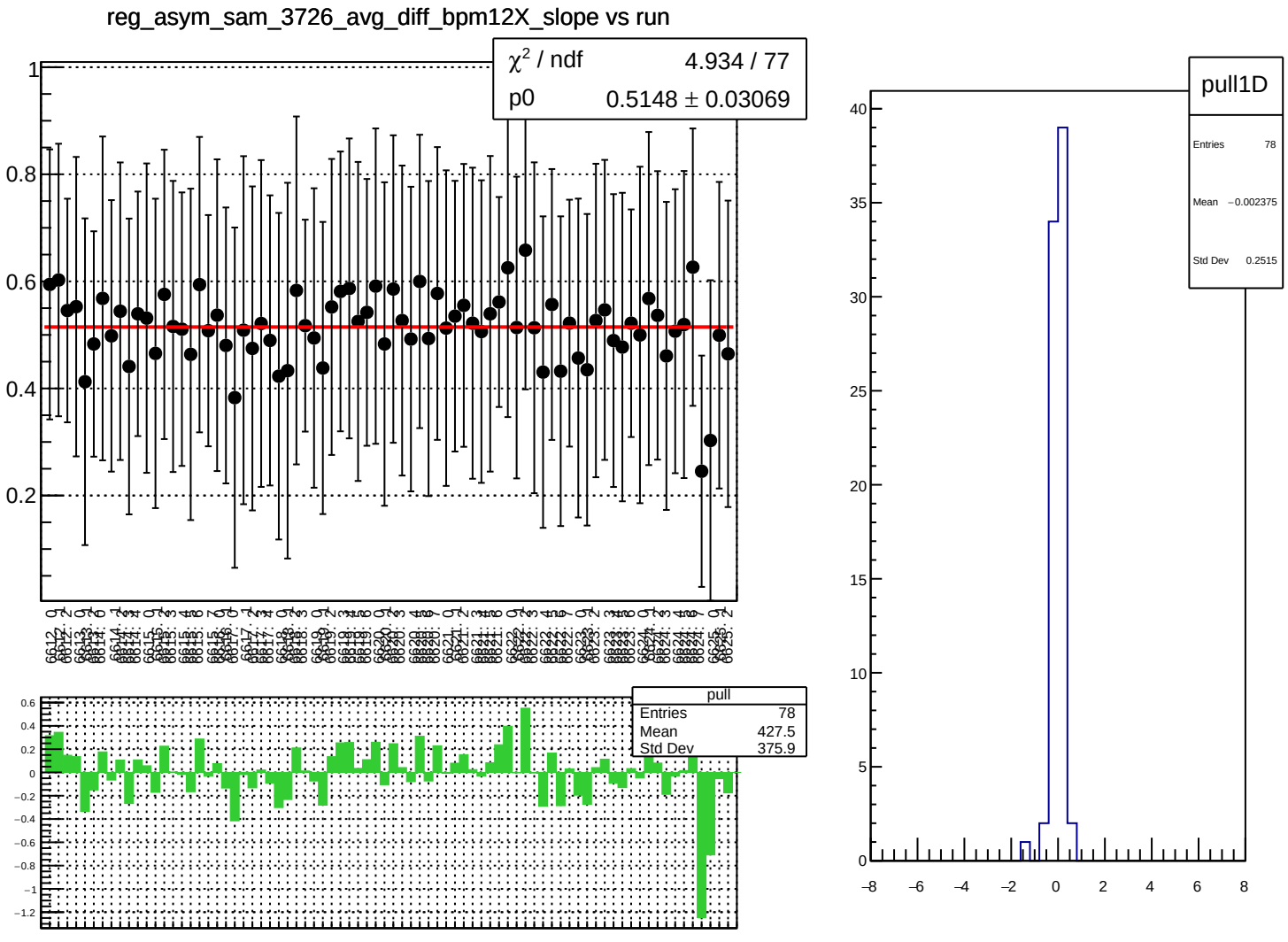

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.159 / 77
p0 4.924 ± 0.4865
pull
Entries 78
Mean 328.5
Std Dev 334.3
pull1D
Entries 78
Mean 0.002505
Std Dev 0.3234

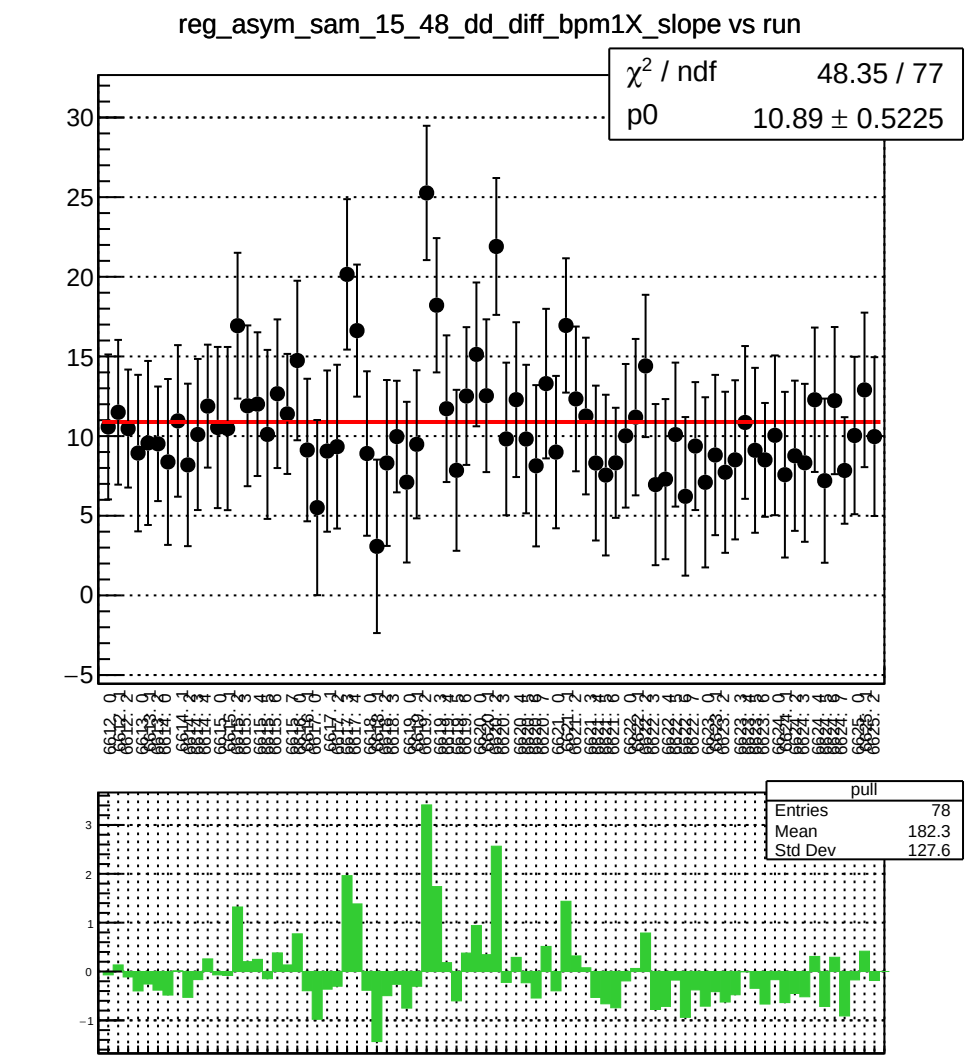

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.4 / 77
p0 −66.99 ± 0.7606
pull
Entries 78
Mean 101.5
Std Dev 36.94

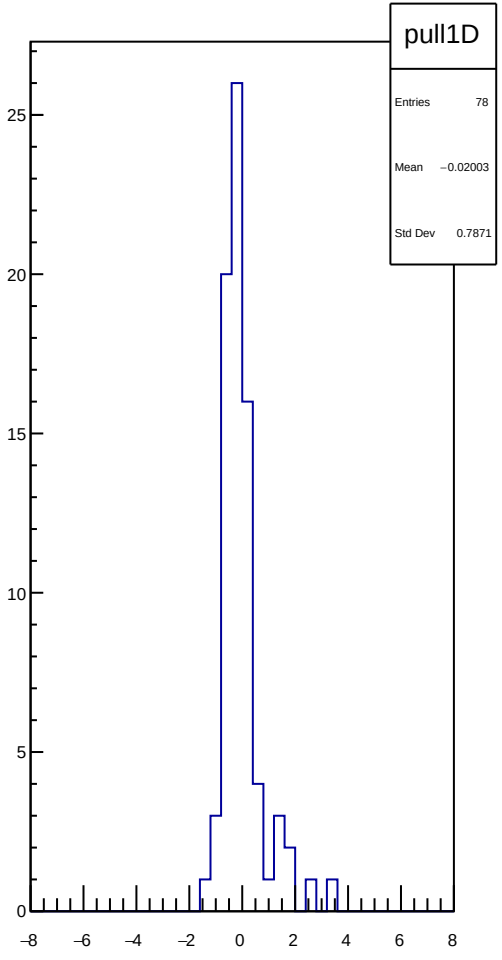

pull1D
Entries 78
Mean −0.03197
Std Dev 0.819

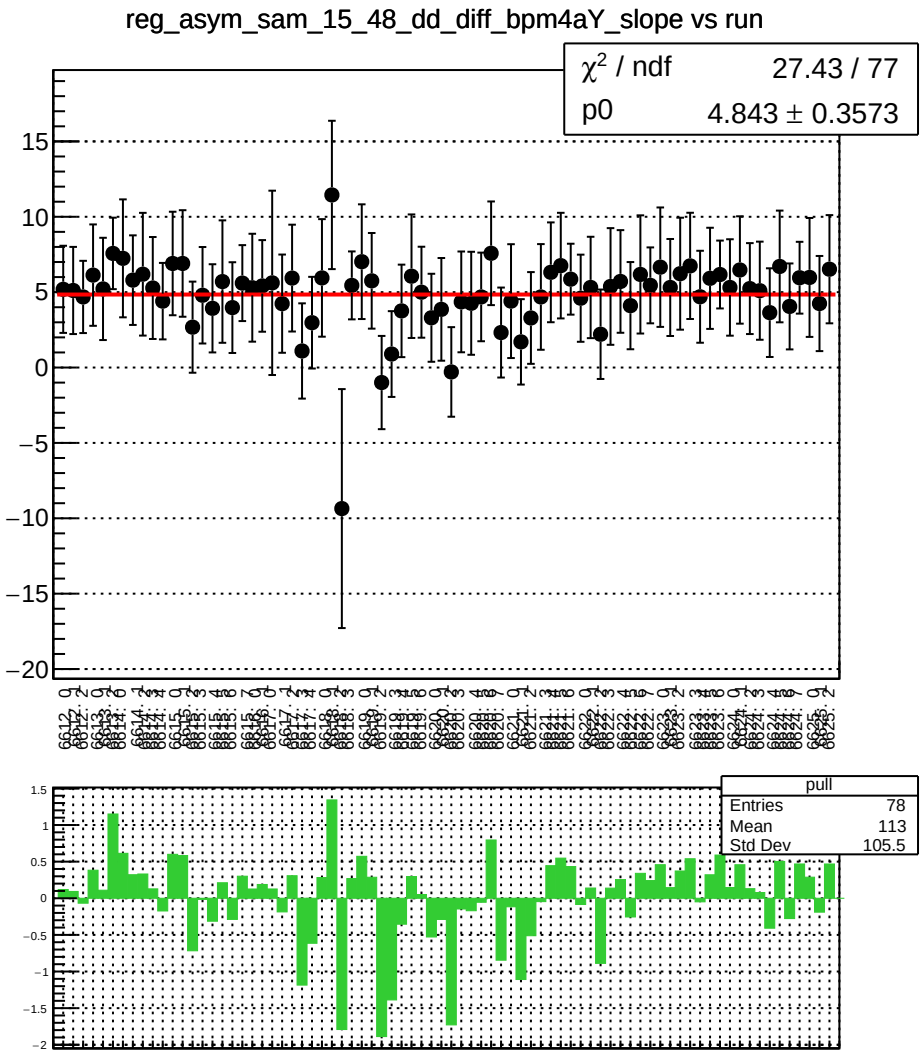

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.502 / 77
p0 −18.21 ± 0.5863
pull
Entries 78
Mean 80.16
Std Dev 85.17

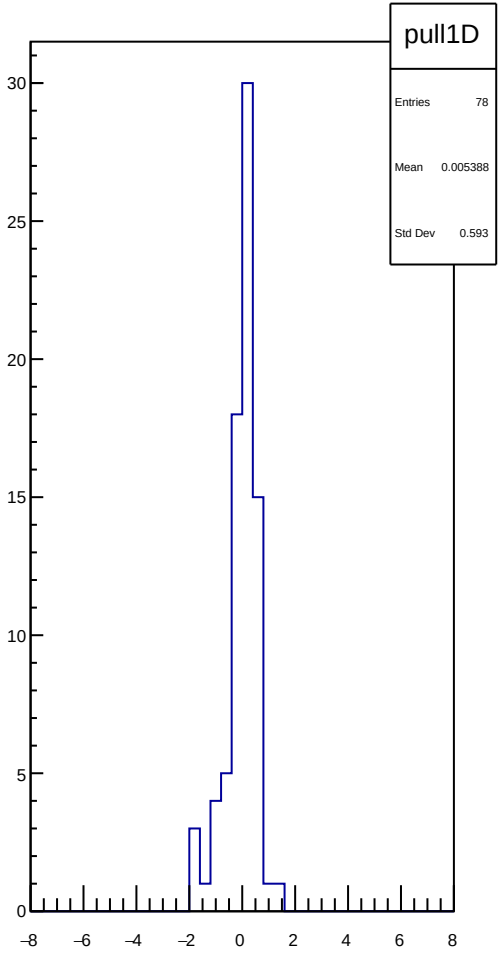

pull1D
Entries 78
Mean −0.01144
Std Dev 0.3488

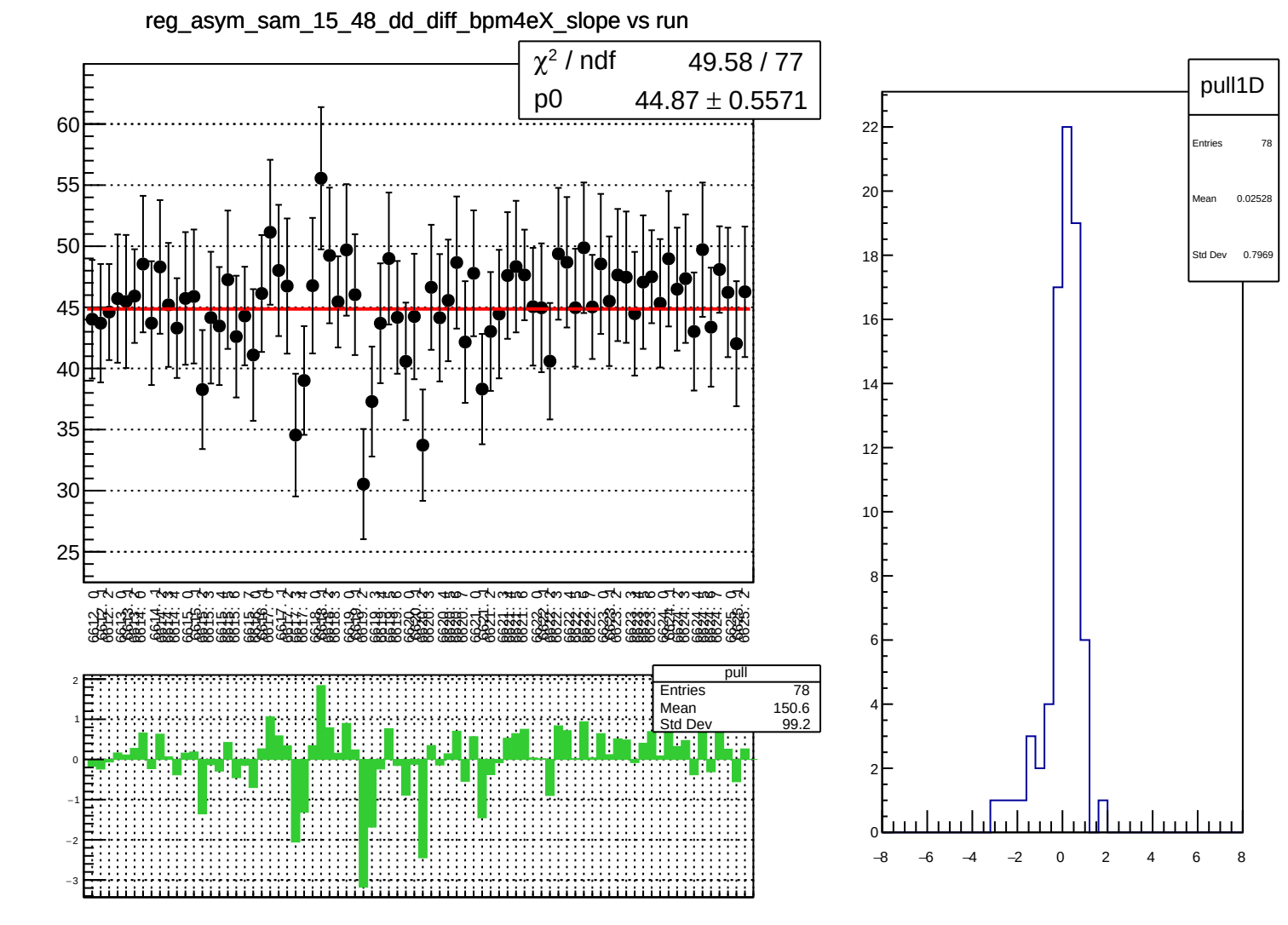

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 4.934 / 77
p0 0.5148 ± 0.03069
pull
Entries 78
Mean 427.5
Std Dev 375.9
pull1D
Entries 78
Mean −0.002375
Std Dev 0.2515

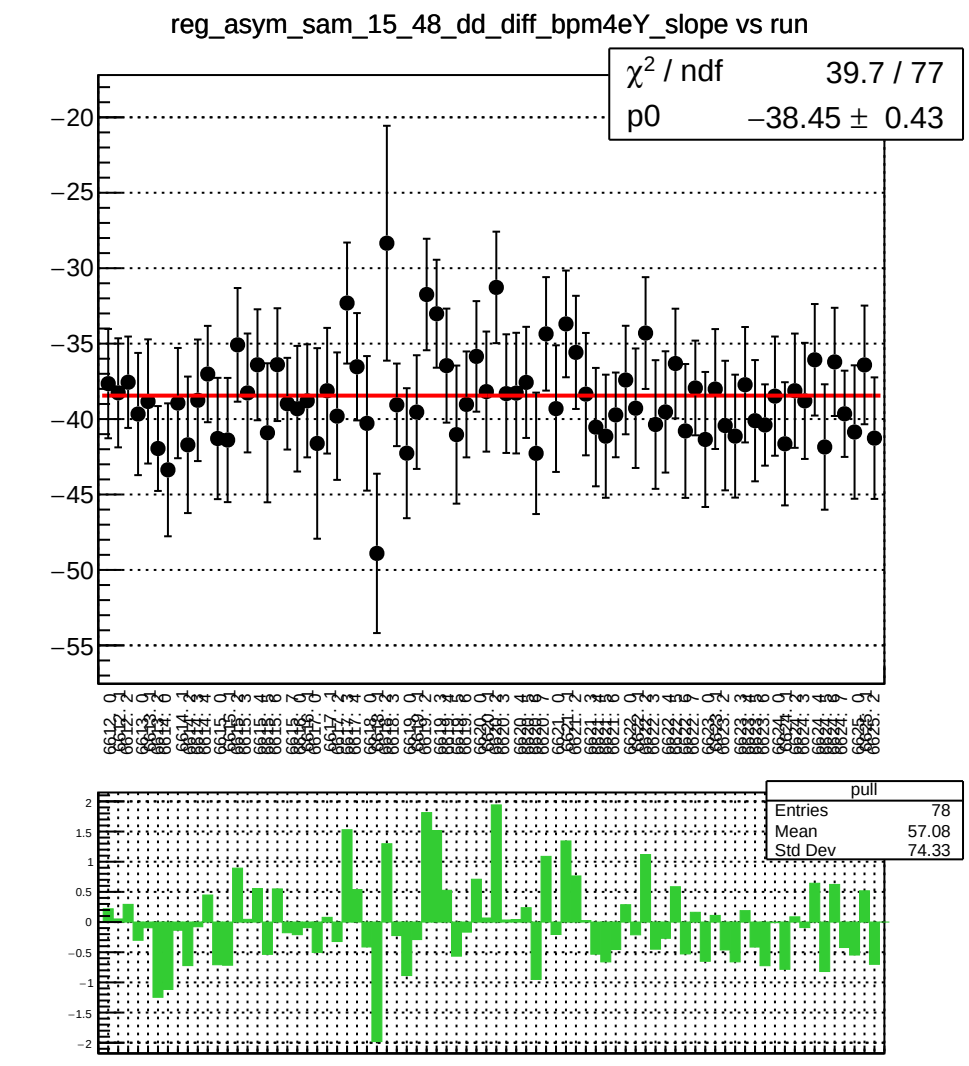

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 48.35 / 77
p0 10.89 ± 0.5225
pull
Entries 78
Mean 182.3
Std Dev 127.6

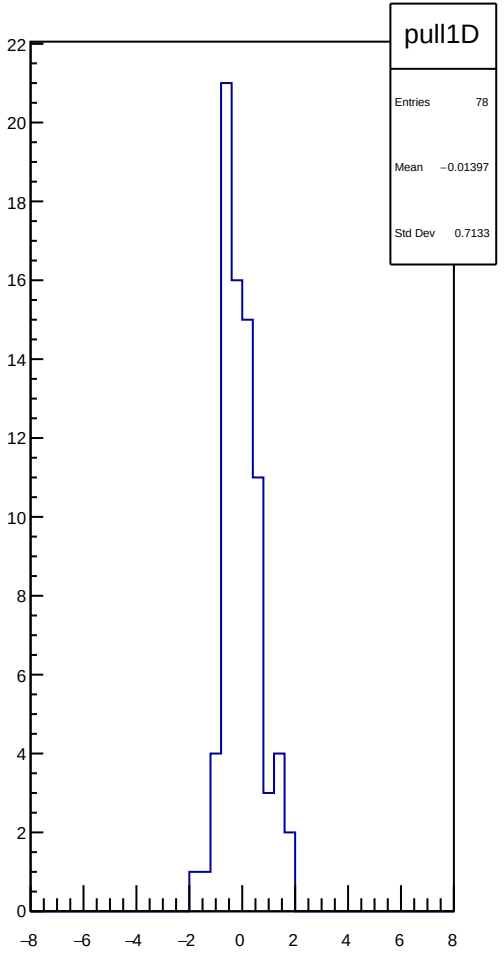

pull1D
Entries 78
Mean −0.02003
Std Dev 0.7871

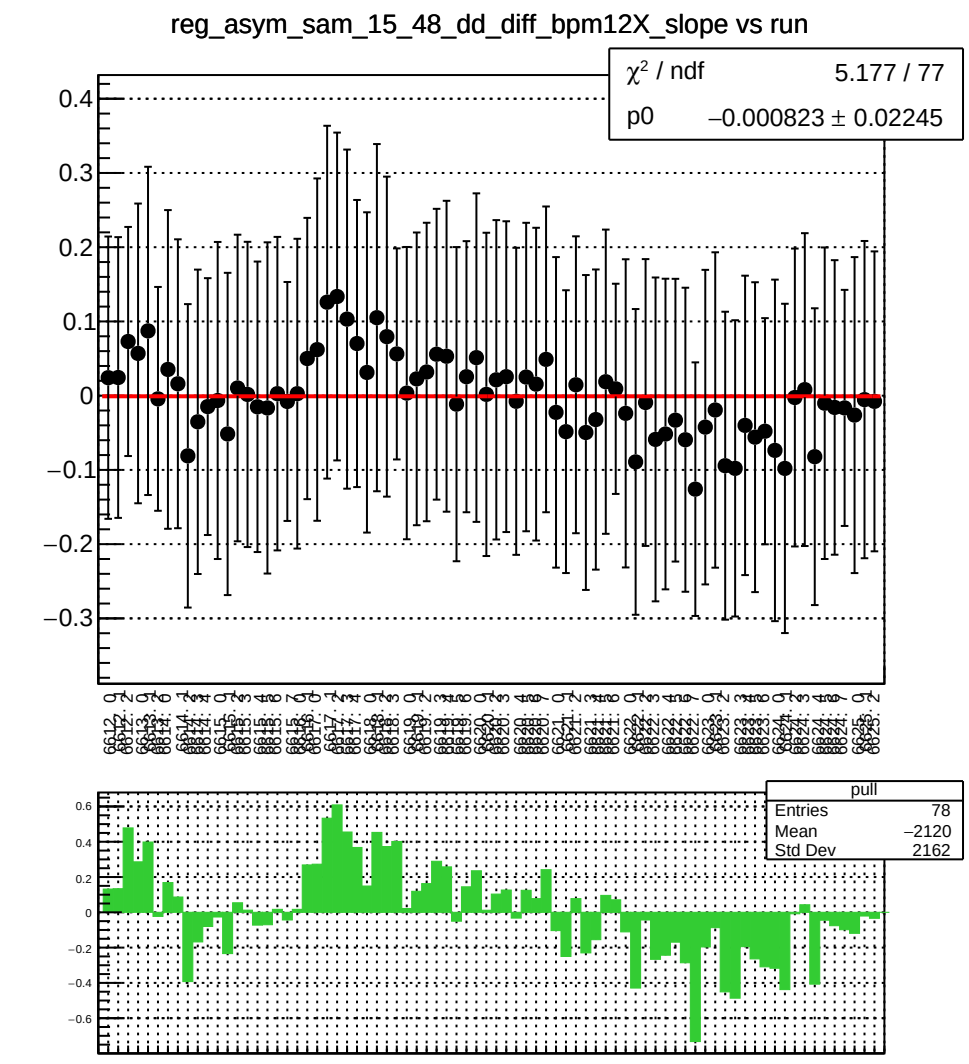

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.43 / 77
p0 4.843 ± 0.3573
pull
Entries 78
Mean 113
Std Dev 105.5

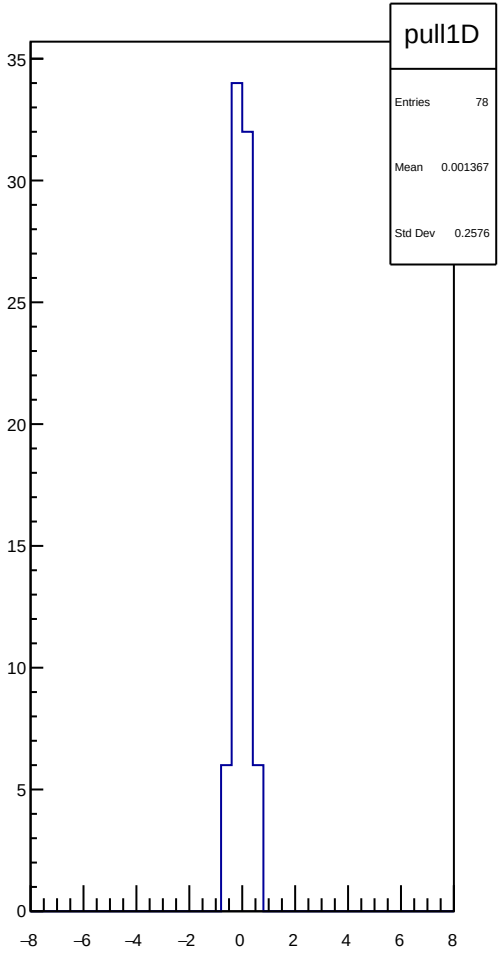

pull1D
Entries 78
Mean 0.005388
Std Dev 0.593

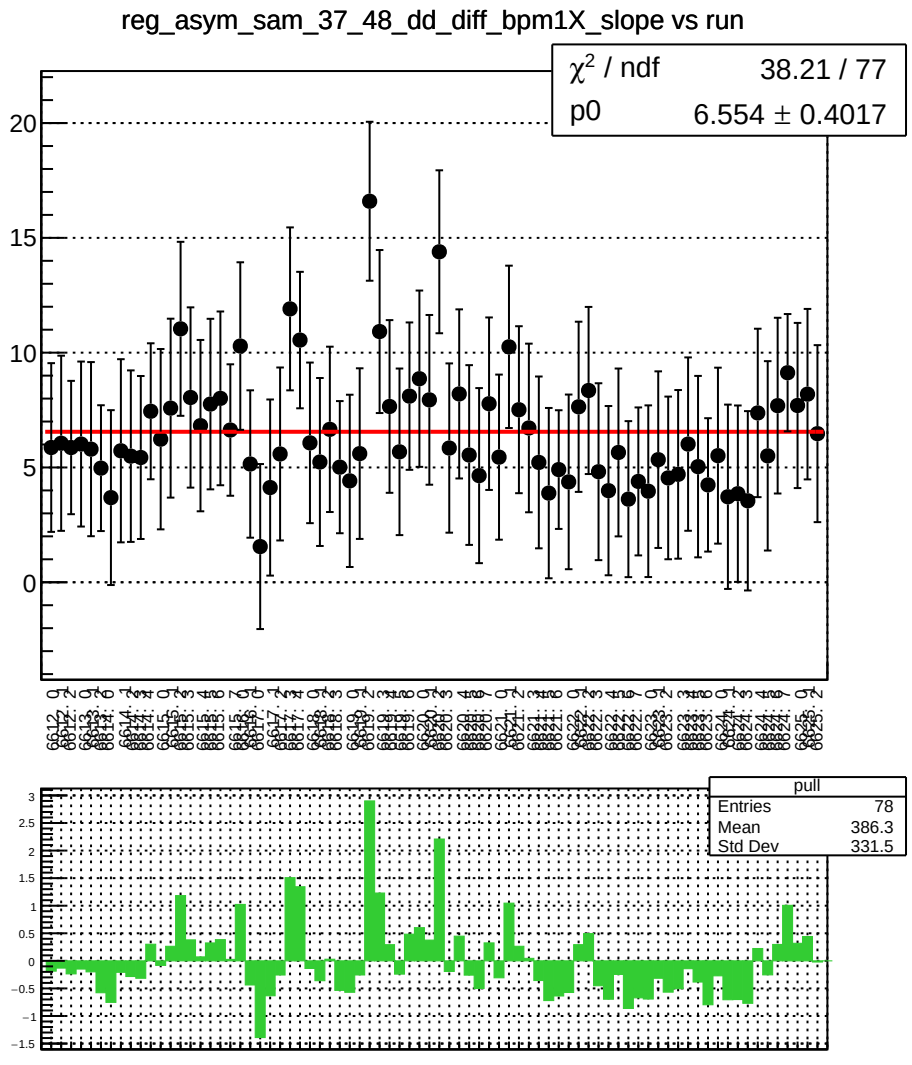

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.58 / 77
p0 44.87 ± 0.5571
pull
Entries 78
Mean 150.6
Std Dev 99.2
pull1D
Entries 78
Mean 0.02528
Std Dev 0.7969

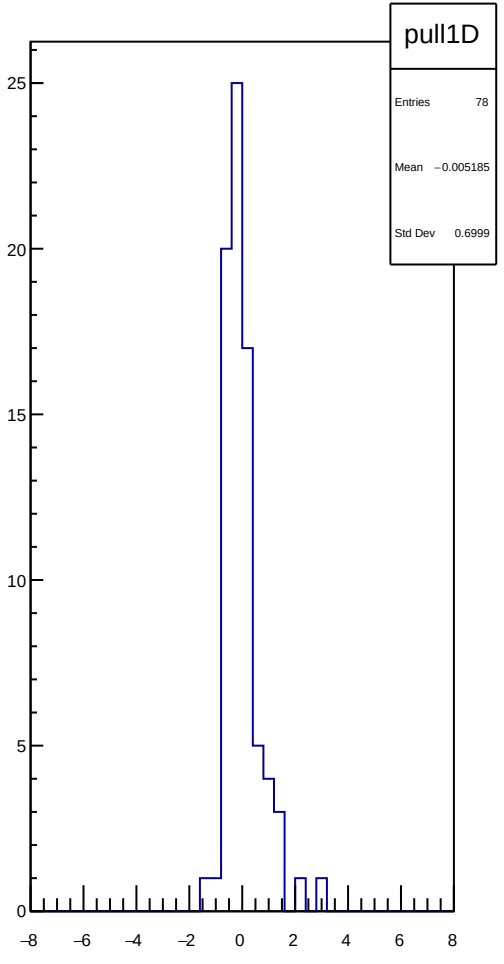

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.7 / 77
p0 −38.45 ± 0.43
pull
Entries 78
Mean 57.08
Std Dev 74.33

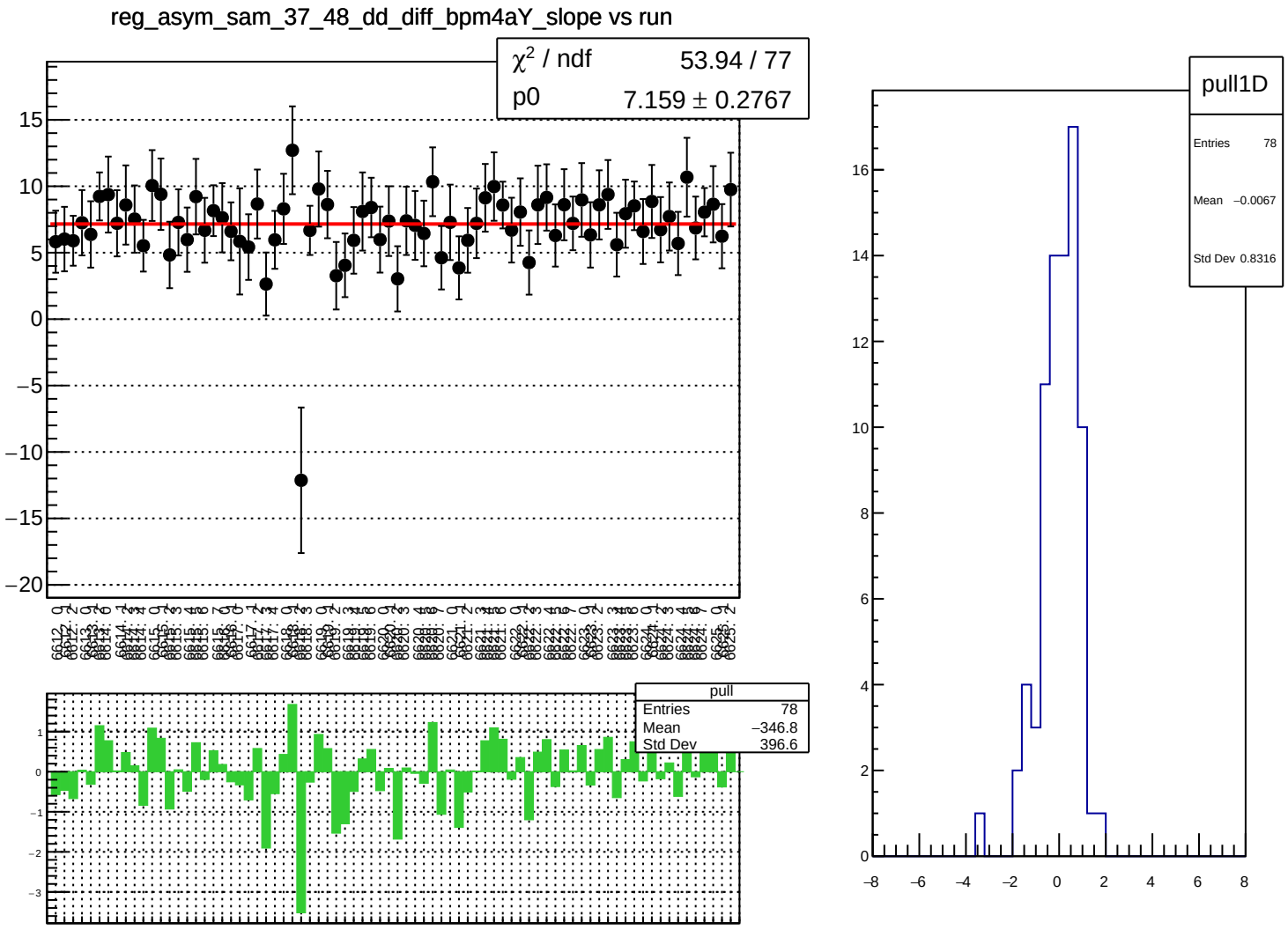

pull1D
Entries 78
Mean −0.01397
Std Dev 0.7133

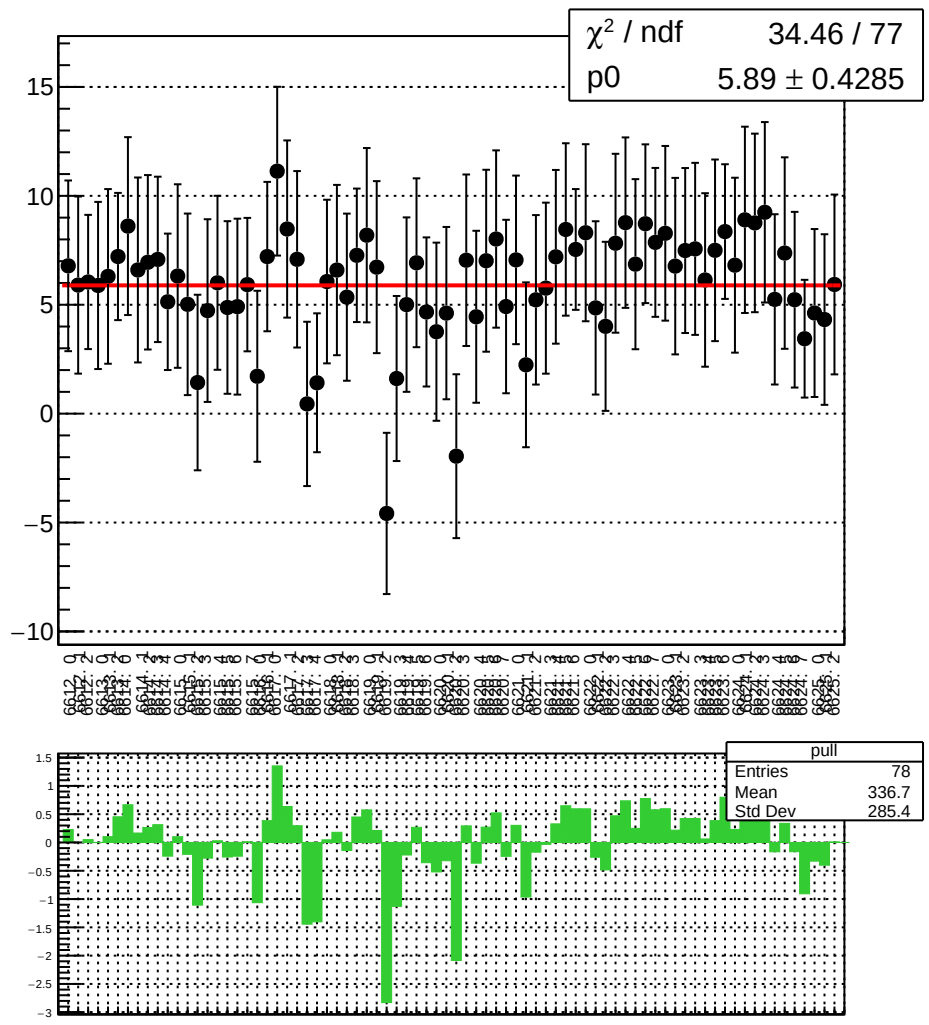

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.177 / 77
p0 −0.000823 ± 0.02245
pull
Entries 78
Mean −2120
Std Dev 2162

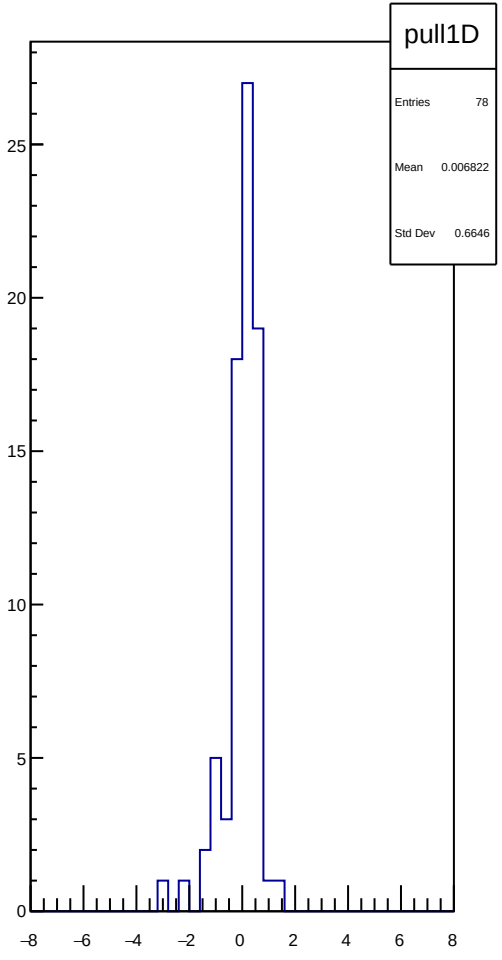

pull1D
Entries 78
Mean 0.001367
Std Dev 0.2576

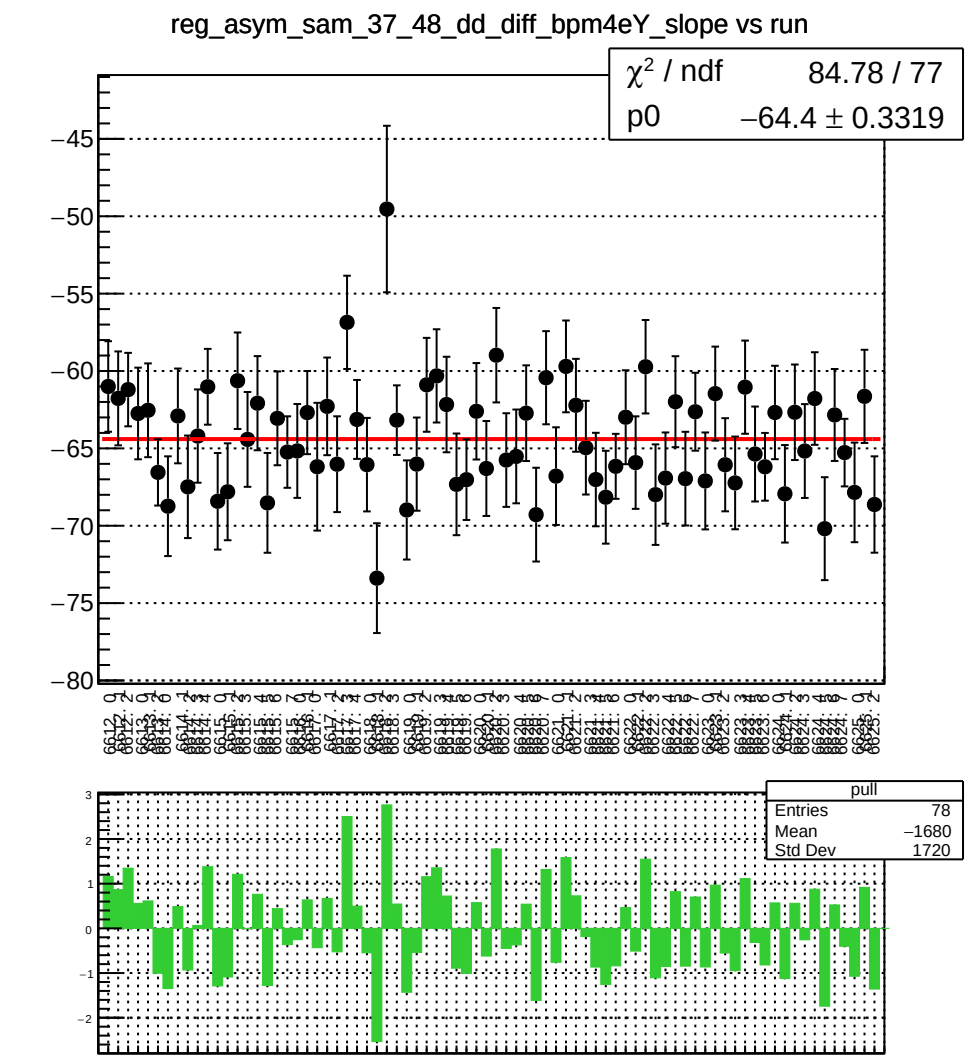

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 38.21 / 77
p0 6.554 ± 0.4017
pull
Entries 78
Mean 386.3
Std Dev 331.5

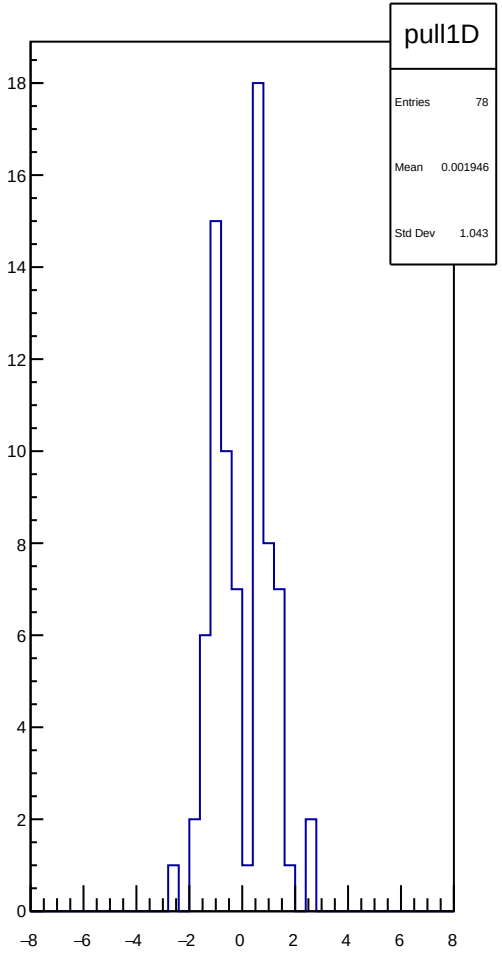

pull1D
Entries 78
Mean −0.005185
Std Dev 0.6999

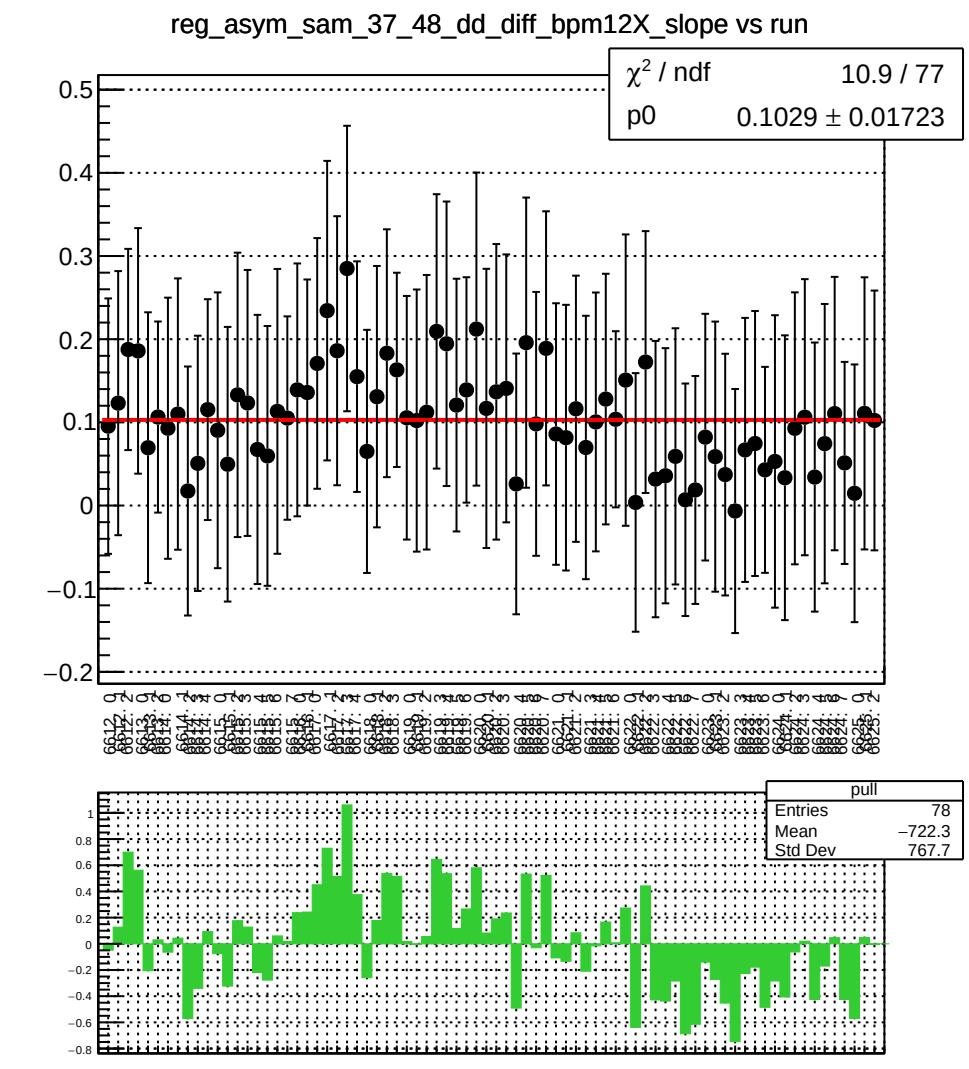

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.94 / 77
p0 7.159 ± 0.2767
pull
Entries 78
Mean −346.8
Std Dev 396.6
pull1D
Entries 78
Mean −0.0067
Std Dev 0.8316

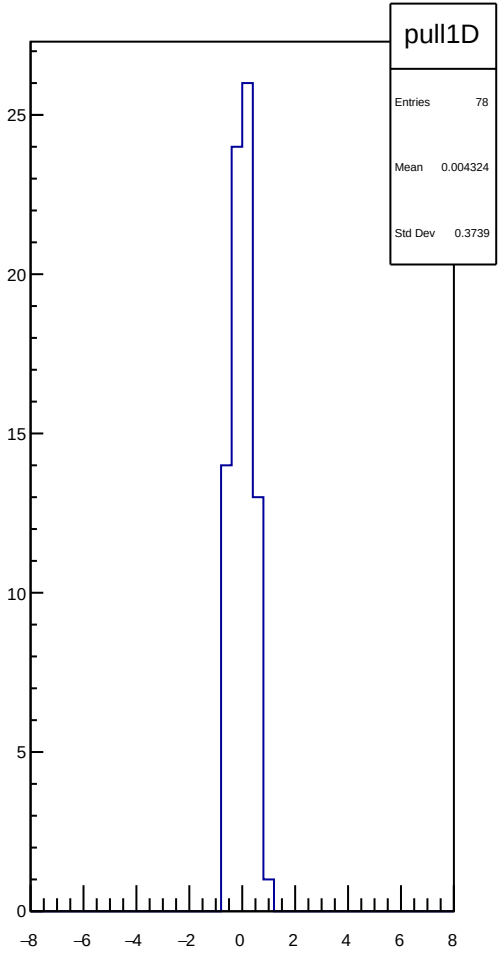

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.46 / 77
p0 5.89 ± 0.4285
pull
Entries 78
Mean 336.7
Std Dev 285.4

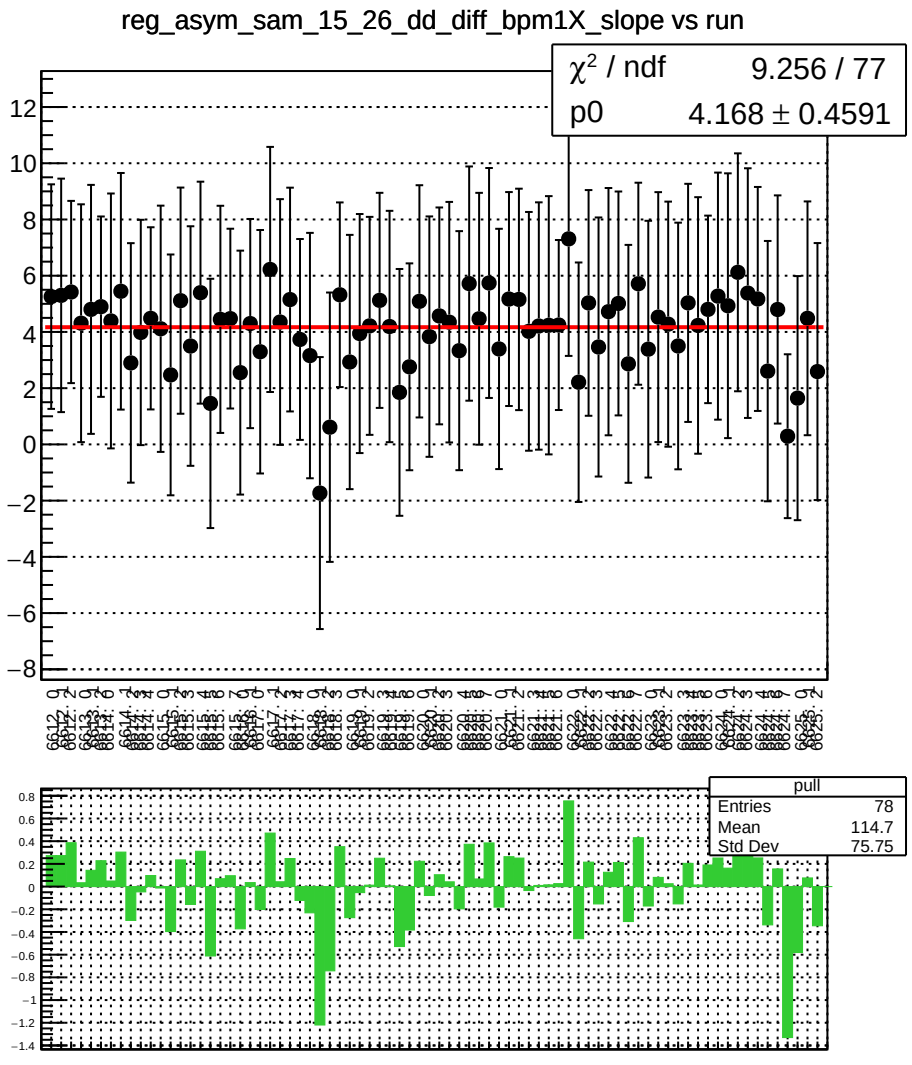

pull1D
Entries 78
Mean 0.006822
Std Dev 0.6646

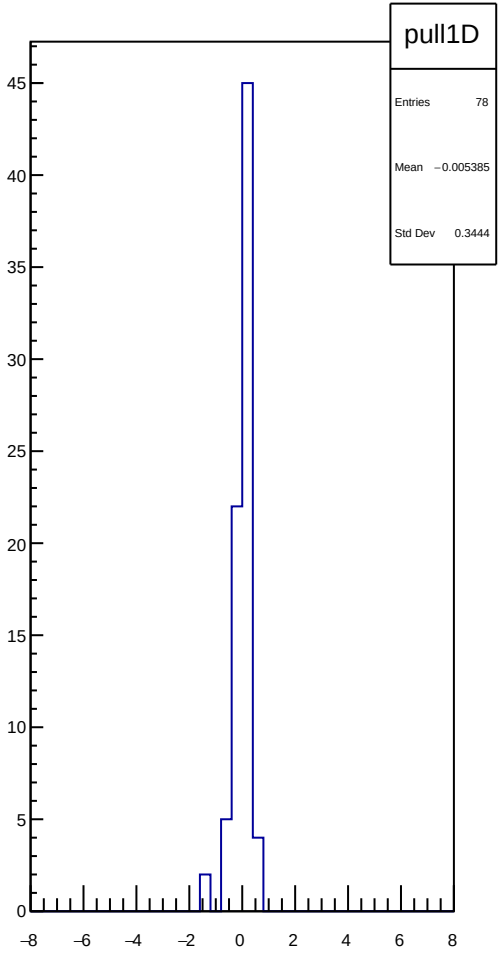

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.78 / 77
p0 −64.4 ± 0.3319
pull
Entries 78
Mean −1680
Std Dev 1720

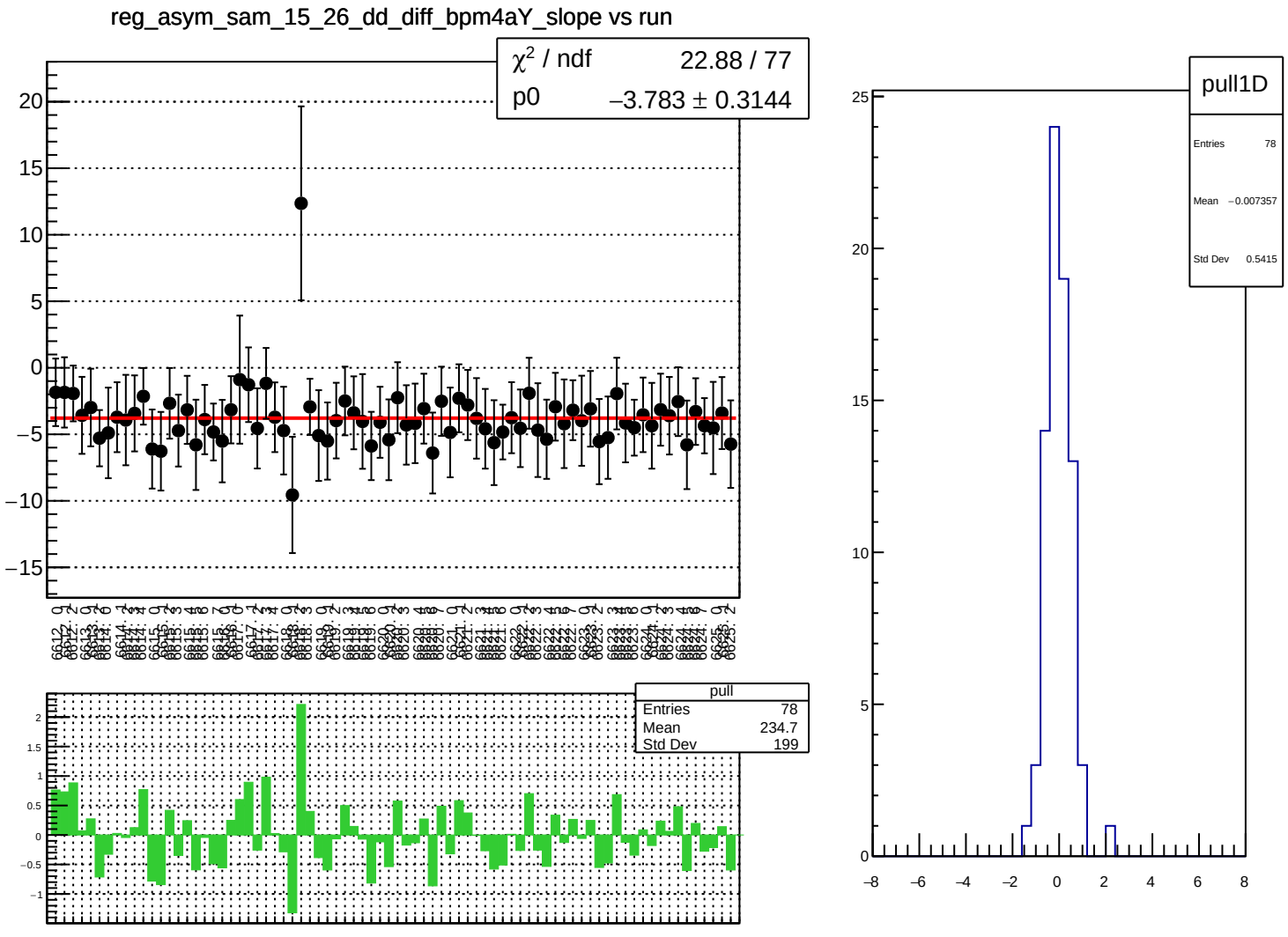

pull1D
Entries 78
Mean 0.001946
Std Dev 1.043

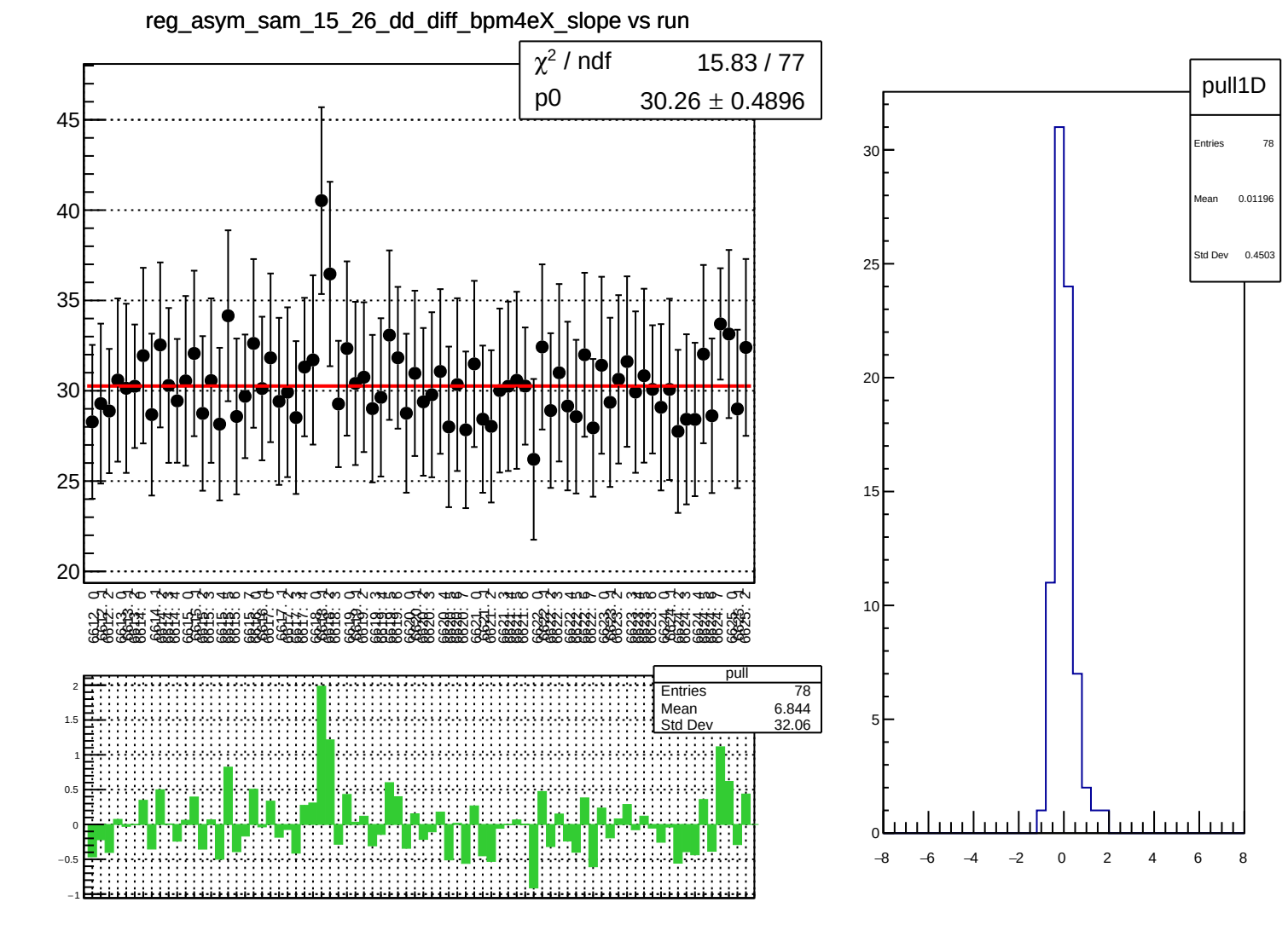

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.9 / 77
p0 0.1029 ± 0.01723
pull
Entries 78
Mean −722.3
Std Dev 767.7

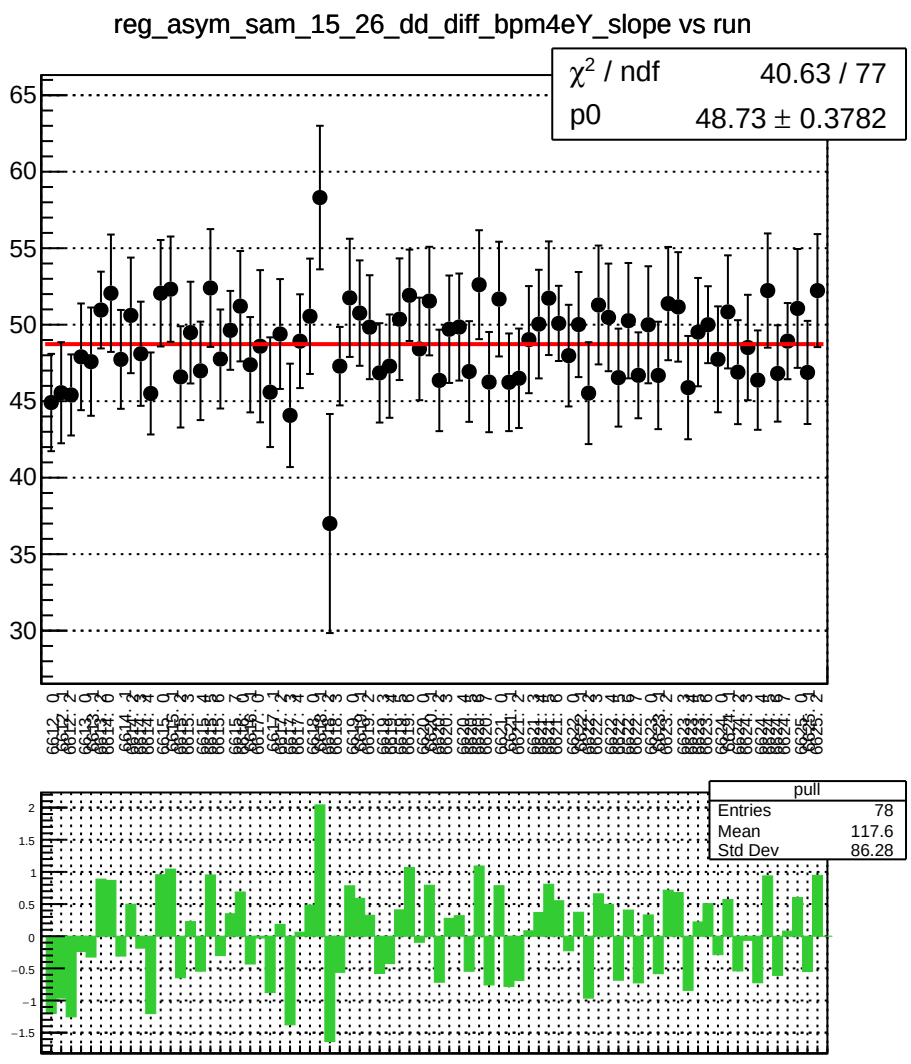

pull1D
Entries 78
Mean 0.004324
Std Dev 0.3739

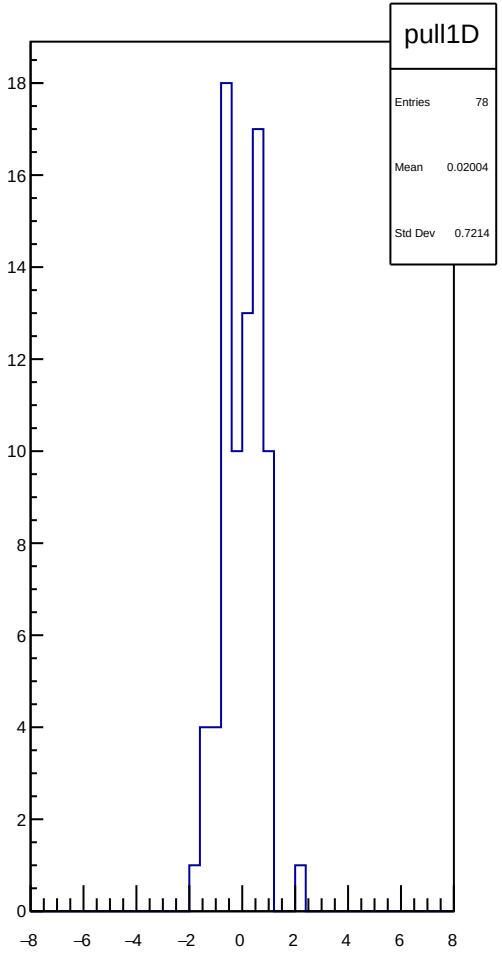

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.256 / 77
p0 4.168 ± 0.4591
pull
Entries 78
Mean 114.7
Std Dev 75.75

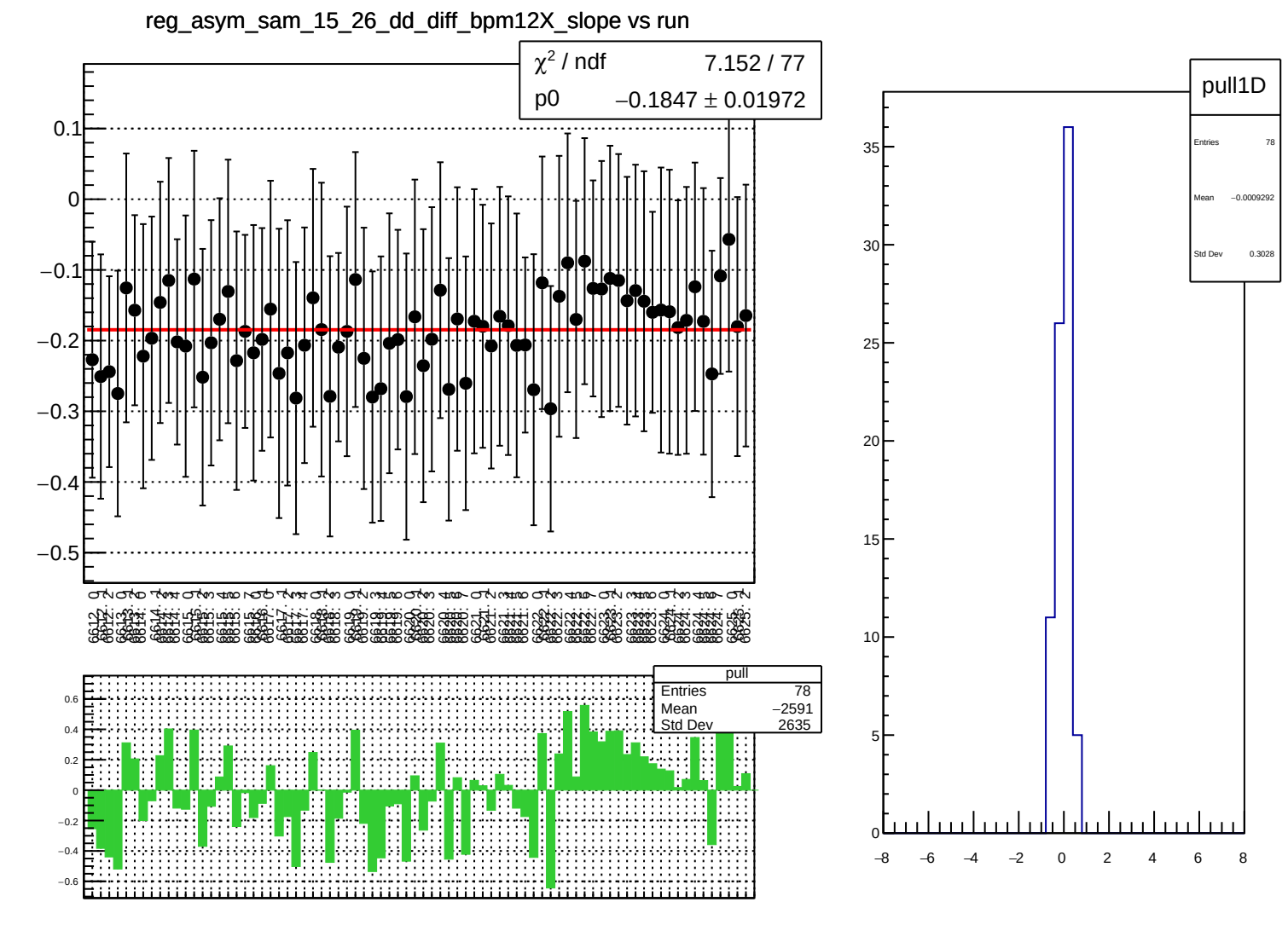

pull1D
Entries 78
Mean −0.005385
Std Dev 0.3444

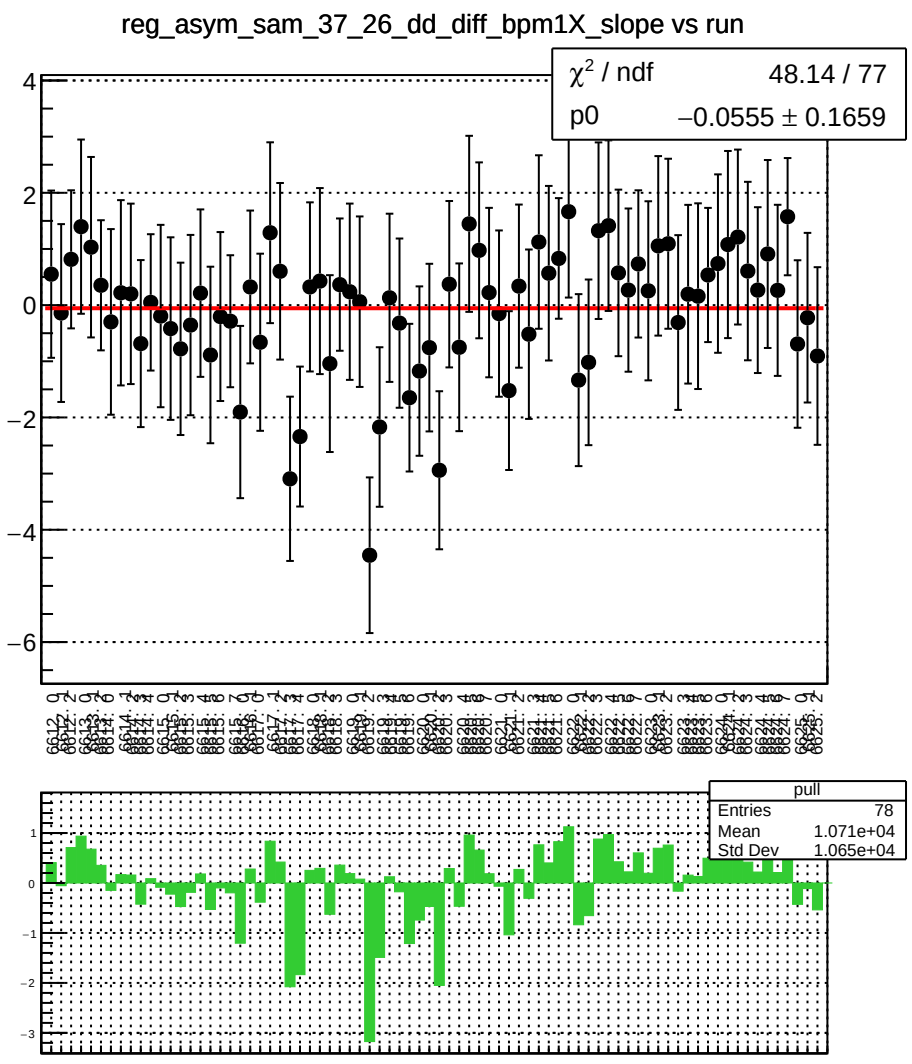

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.88 / 77
p0 −3.783 ± 0.3144
pull
Entries 78
Mean 234.7
Std Dev 199
pull1D
Entries 78
Mean −0.007357
Std Dev 0.5415

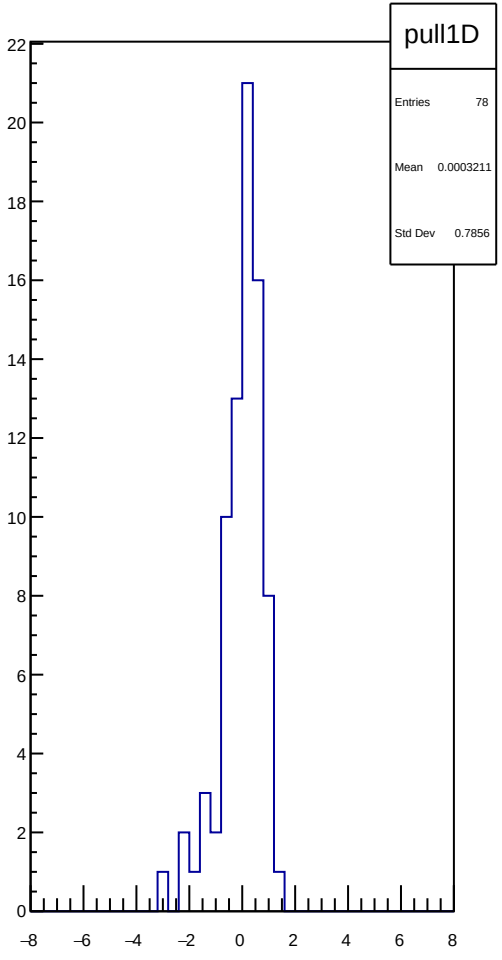

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.83 / 77
p0 30.26 ± 0.4896
pull
Entries 78
Mean 6.844
Std Dev 32.06
pull1D
Entries 78
Mean 0.01196
Std Dev 0.4503

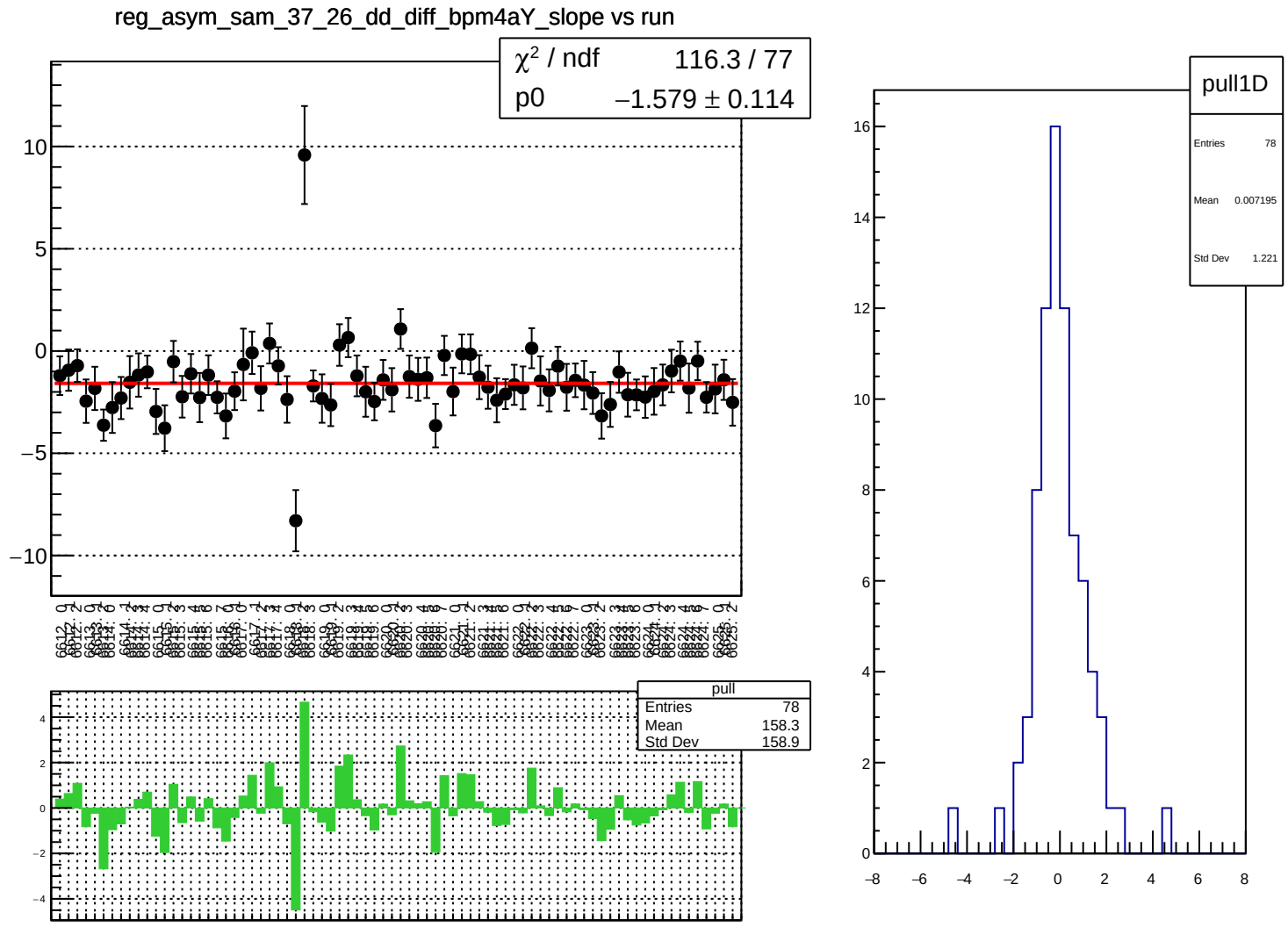

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.63 / 77
p0 48.73 ± 0.3782
pull
Entries 78
Mean 117.6
Std Dev 86.28

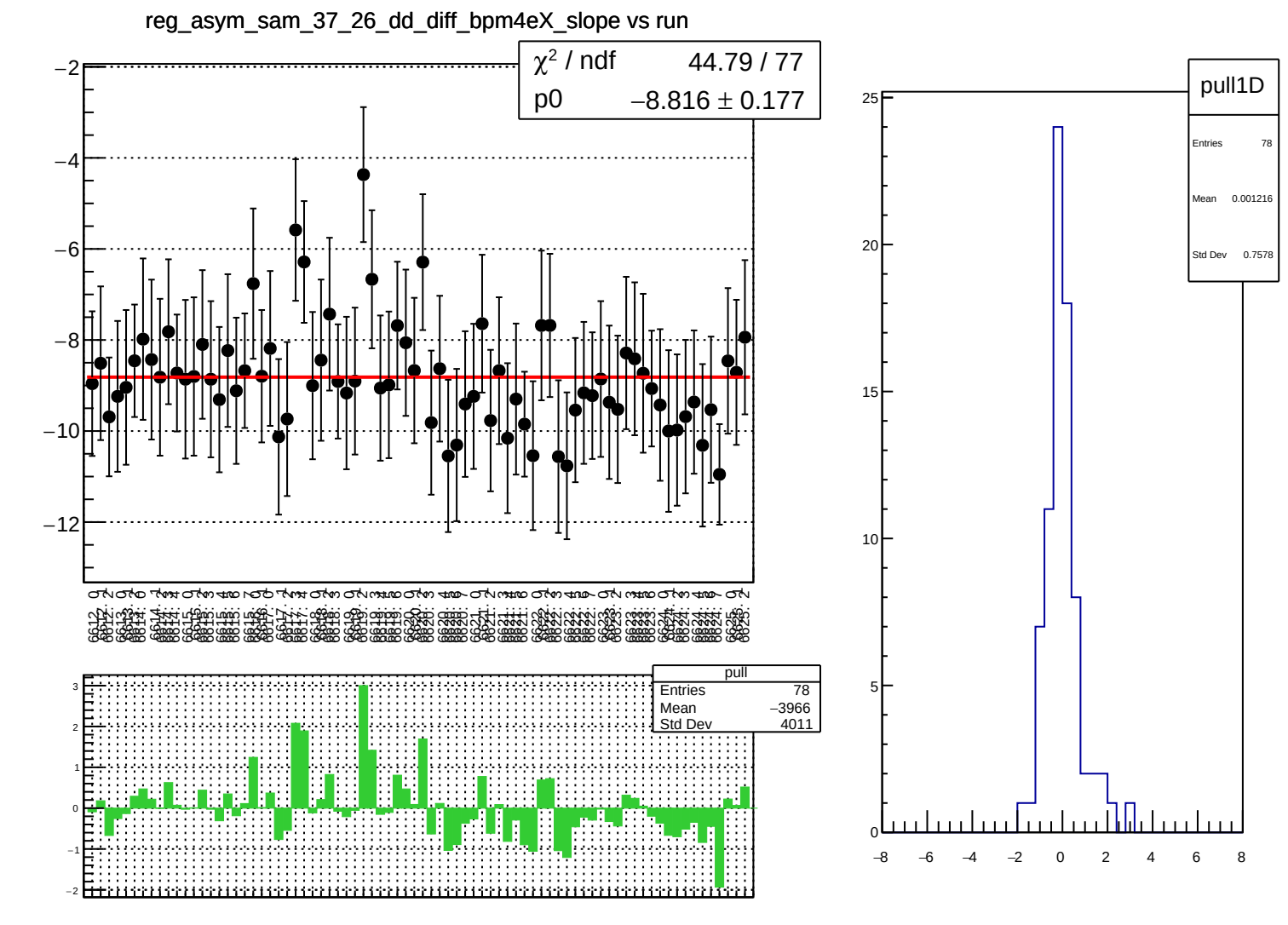

pull1D
Entries 78
Mean 0.02004
Std Dev 0.7214

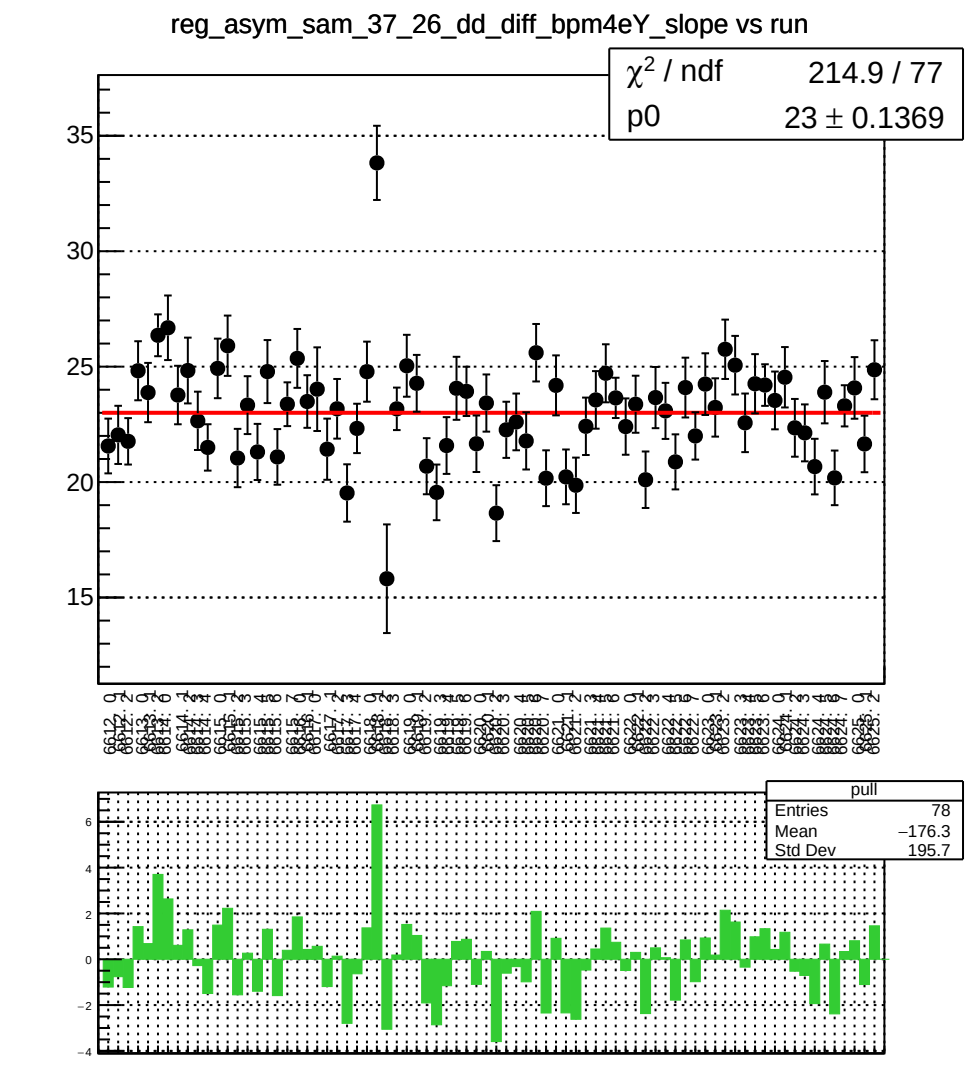

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.152 / 77
p0 −0.1847 ± 0.01972
pull
Entries 78
Mean −2591
Std Dev 2635
pull1D
Entries 78
Mean −0.0009292
Std Dev 0.3028

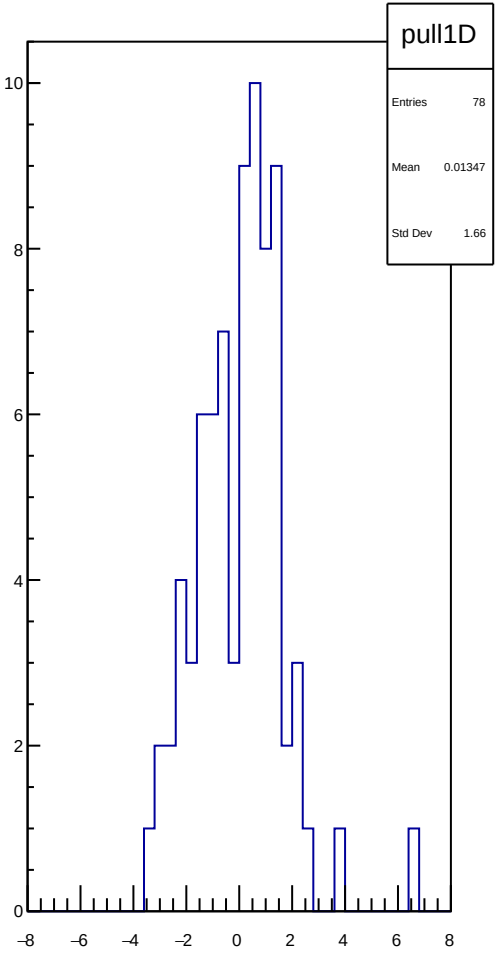

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 48.14 / 77
p0 −0.0555 ± 0.1659
pull
Entries 78
Mean 1.071e+04
Std Dev 1.065e+04

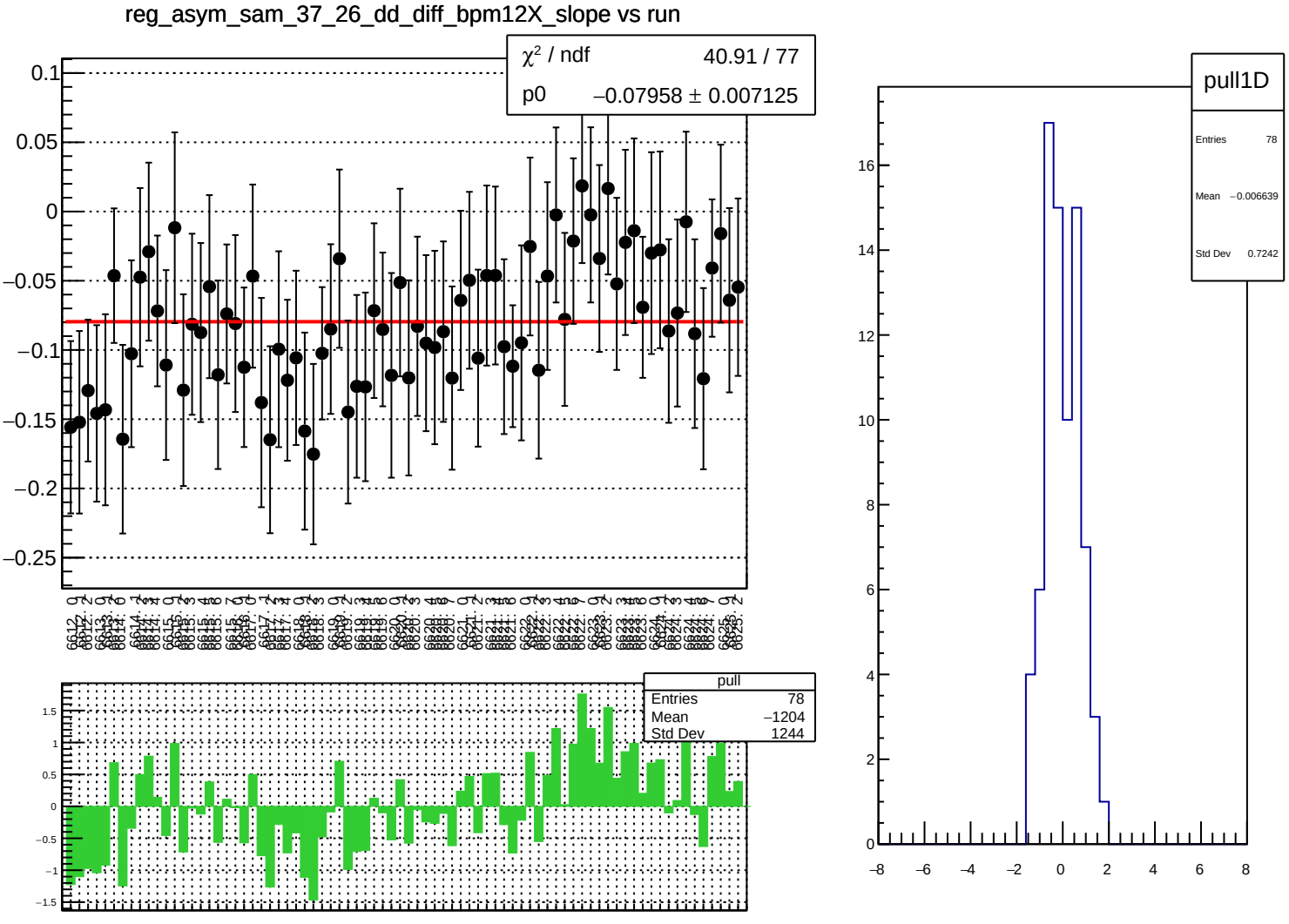

pull1D
Entries 78
Mean 0.0003211
Std Dev 0.7856

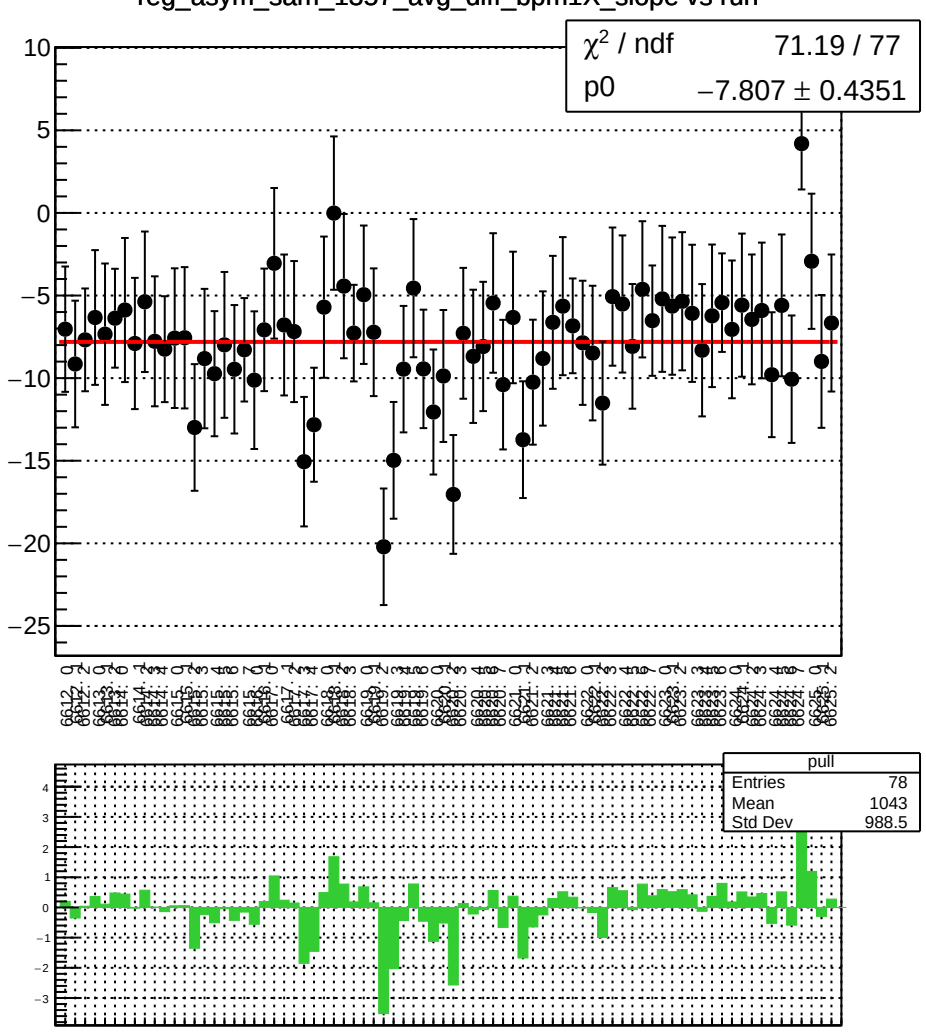

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 116.3 / 77
p0 −1.579 ± 0.114
pull
Entries 78
Mean 158.3
Std Dev 158.9
pull1D
Entries 78
Mean 0.007195
Std Dev 1.221

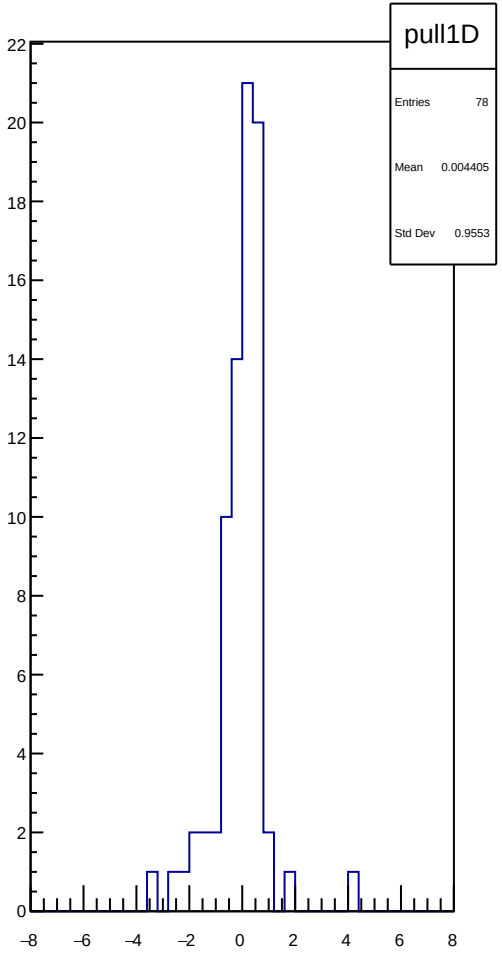

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.79 / 77
p0 −8.816 ± 0.177
pull
Entries 78
Mean −3966
Std Dev 4011
pull1D
Entries 78
Mean 0.001216
Std Dev 0.7578

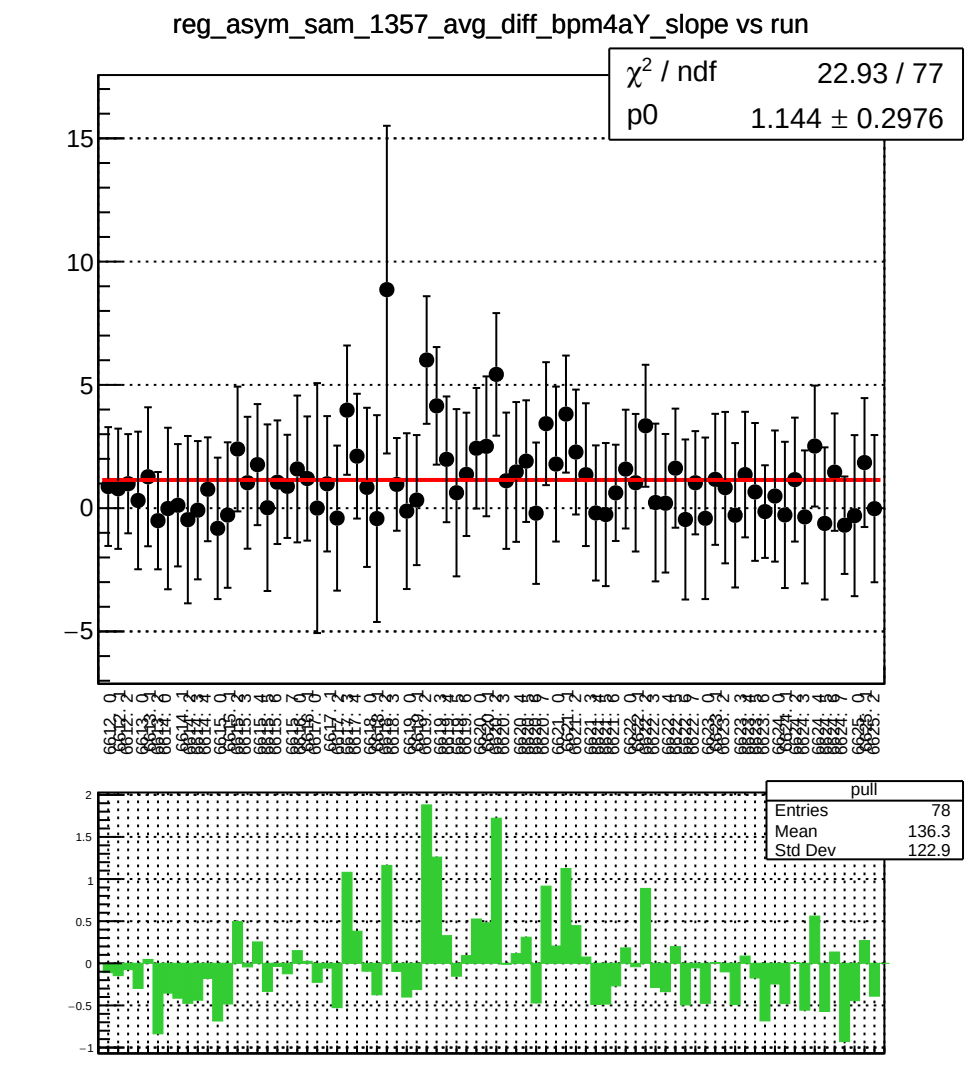

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 214.9 / 77
p0 23 ± 0.1369
pull
Entries 78
Mean −176.3
Std Dev 195.7

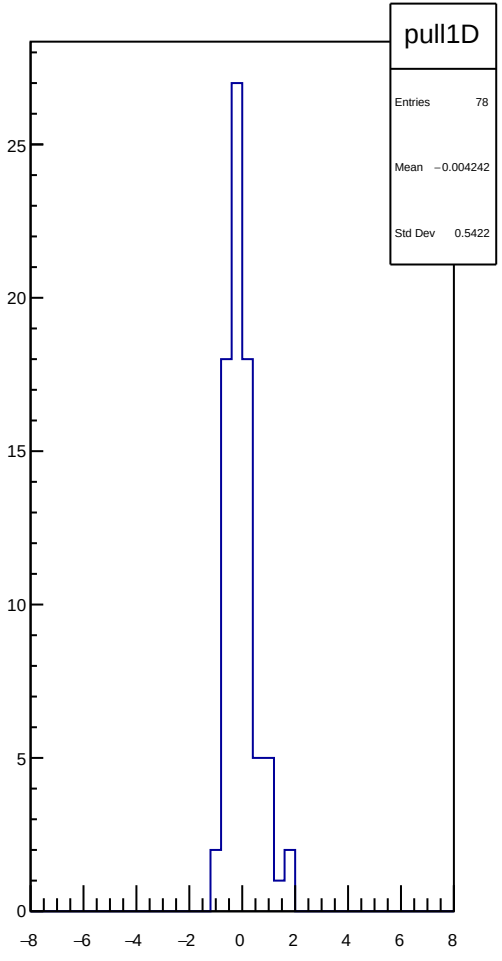

pull1D
Entries 78
Mean 0.01347
Std Dev 1.66

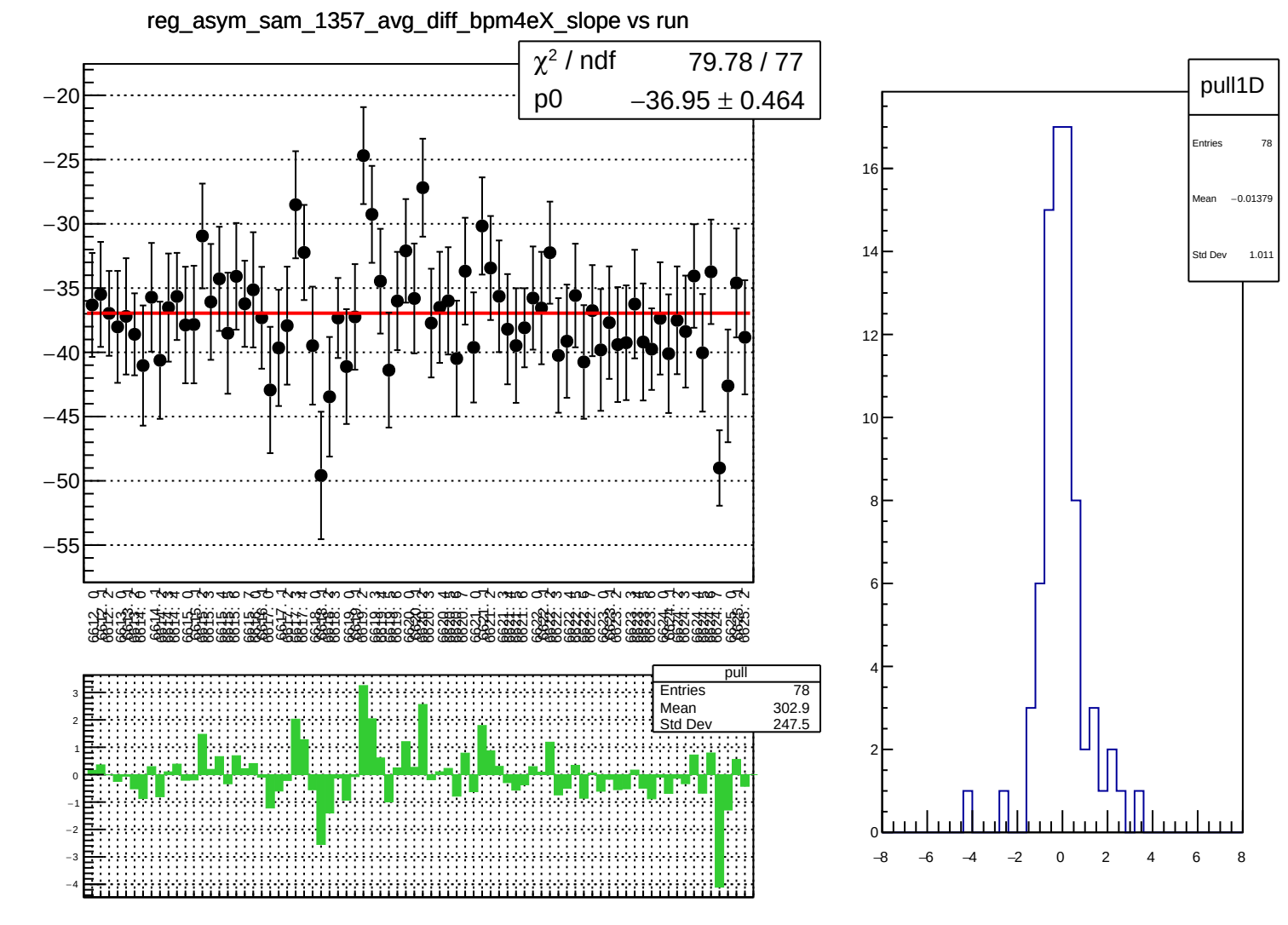

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 40.91 / 77
p0 −0.07958 ± 0.007125
pull
Entries 78
Mean −1204
Std Dev 1244
pull1D
Entries 78
Mean −0.006639
Std Dev 0.7242

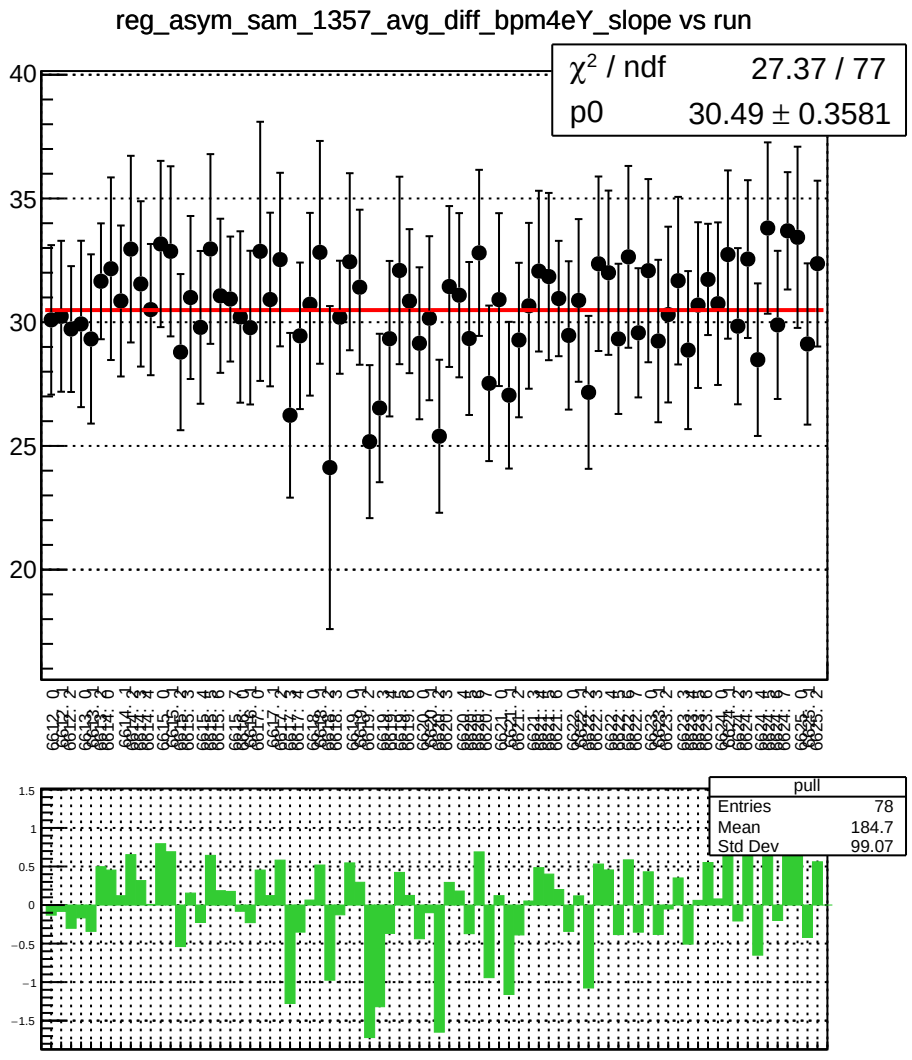

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 71.19 / 77
p0 −7.807 ± 0.4351
pull
Entries 78
Mean 1043
Std Dev 988.5

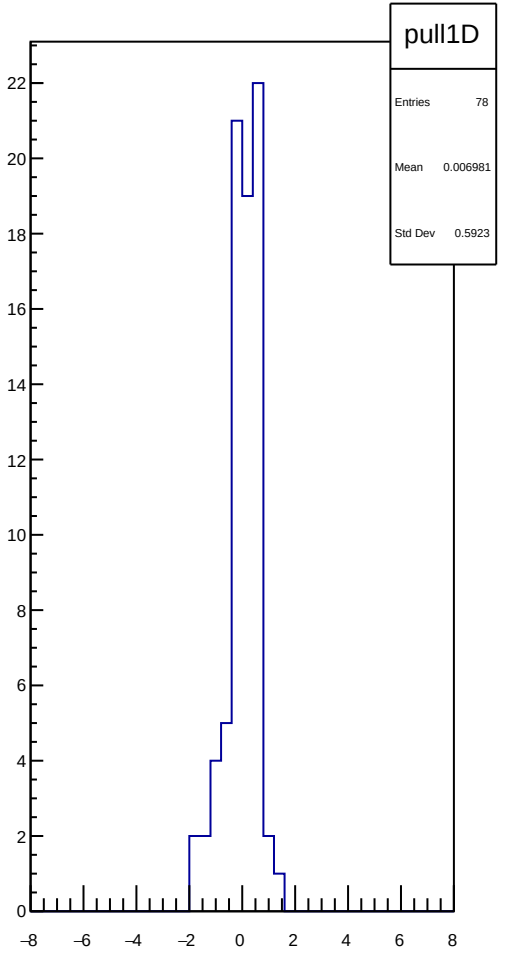

pull1D
Entries 78
Mean 0.004405
Std Dev 0.9553

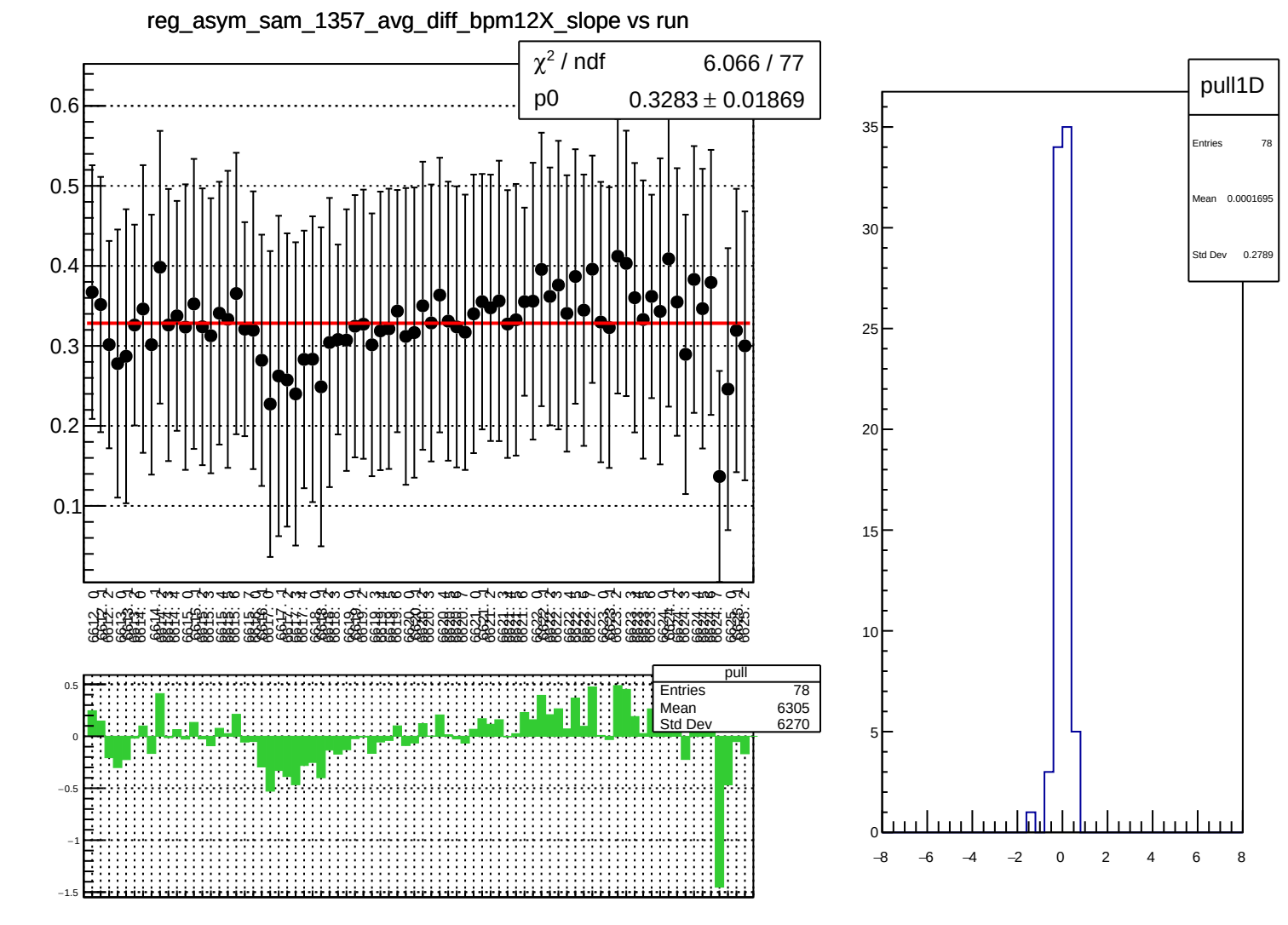

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.93 / 77
p0 1.144 ± 0.2976
pull
Entries 78
Mean 136.3
Std Dev 122.9

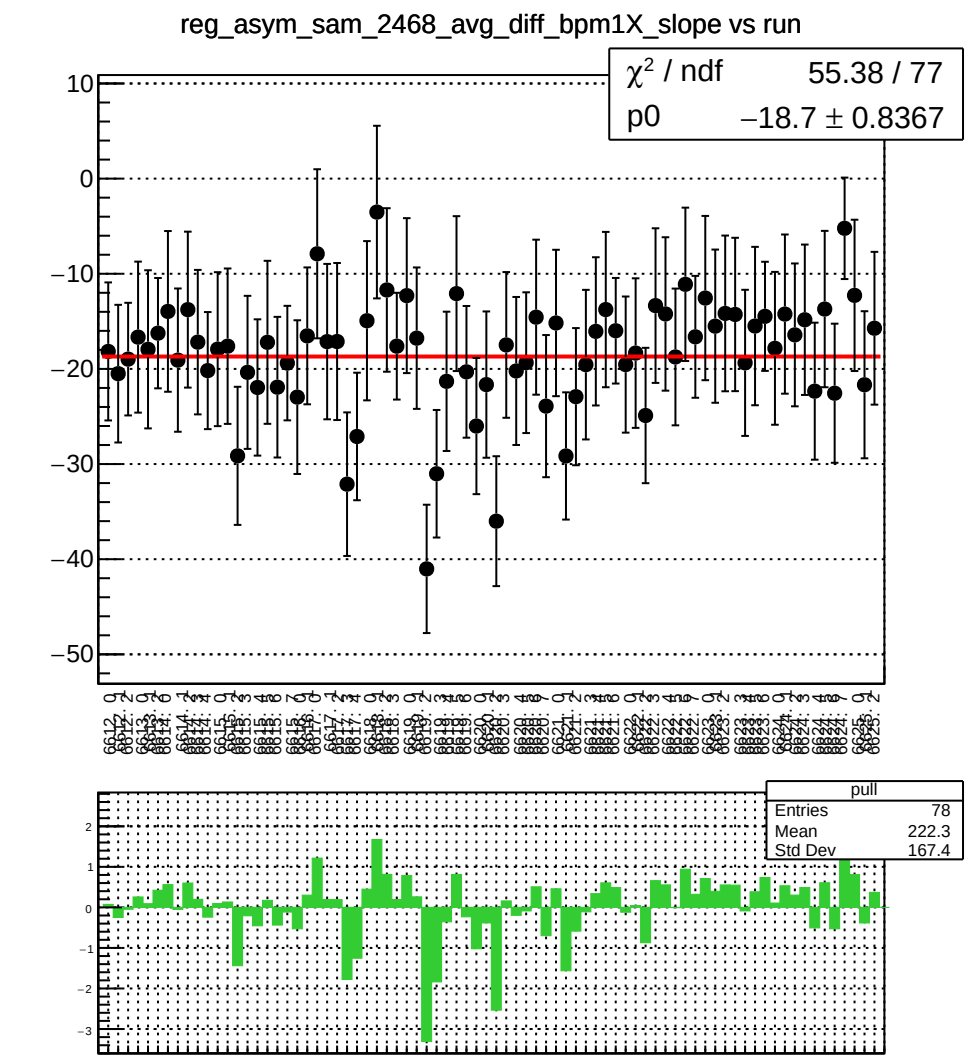

pull1D
Entries 78
Mean −0.004242
Std Dev 0.5422

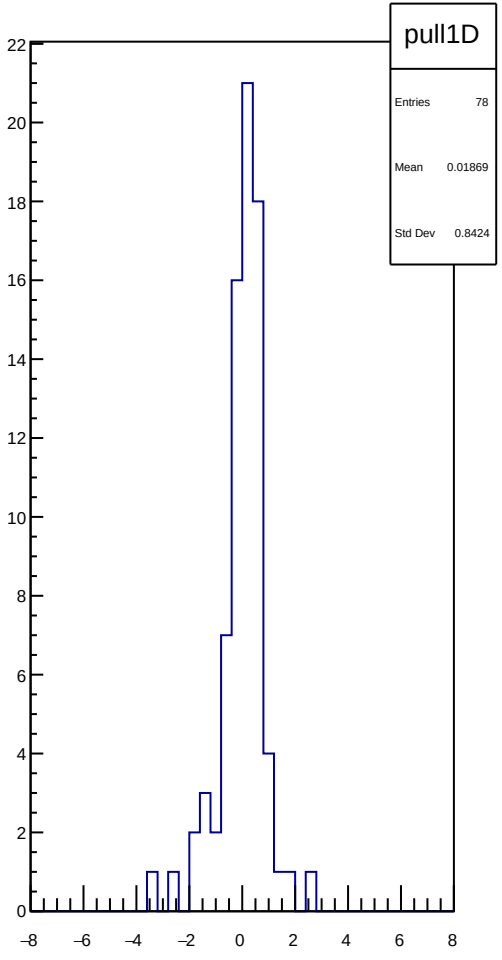

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.78 / 77
p0 −36.95 ± 0.464
pull
Entries 78
Mean 302.9
Std Dev 247.5
pull1D
Entries 78
Mean −0.01379
Std Dev 1.011

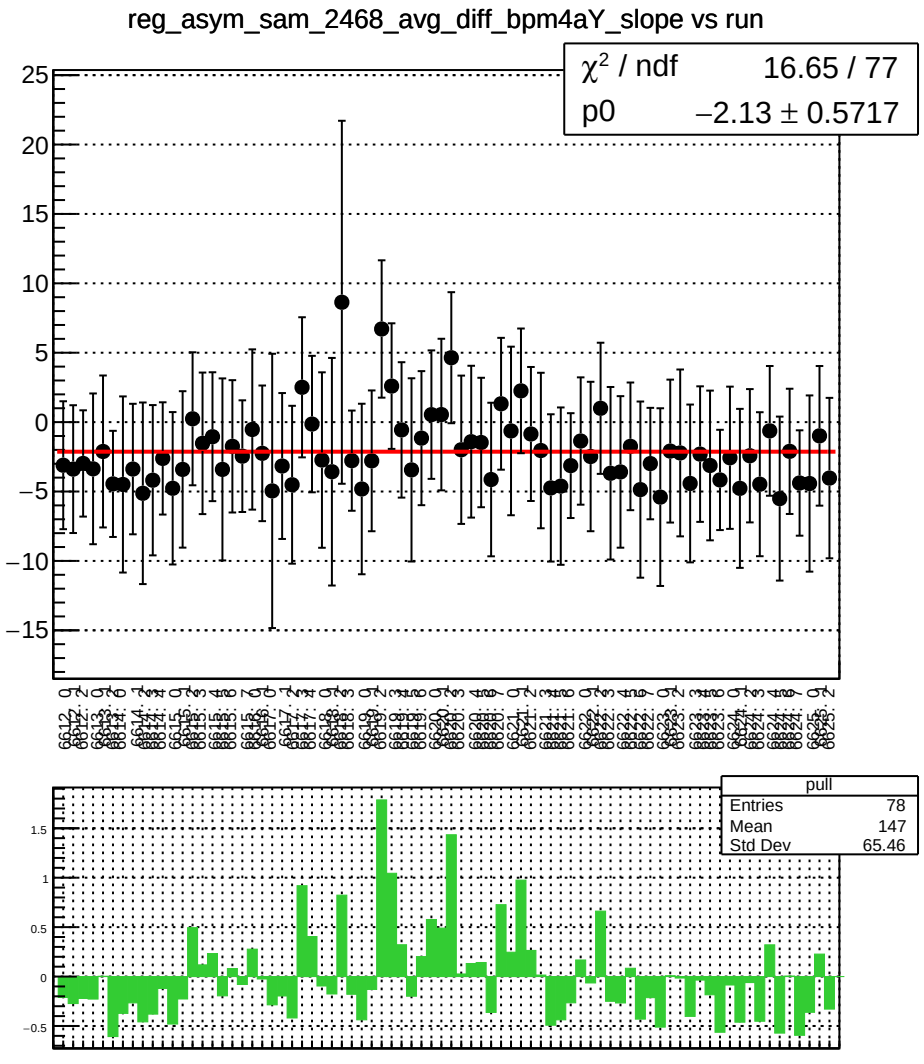

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.37 / 77
p0 30.49 ± 0.3581
pull
Entries 78
Mean 184.7
Std Dev 99.07

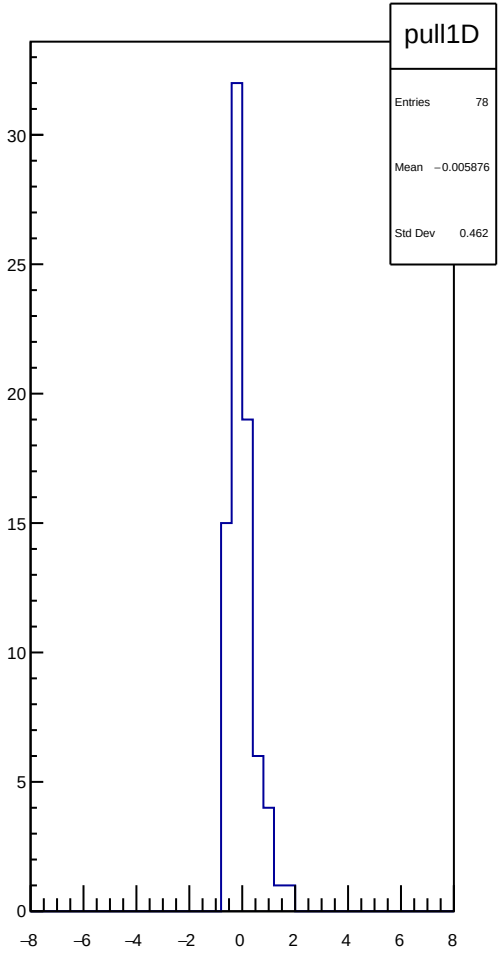

pull1D
Entries 78
Mean 0.006981
Std Dev 0.5923

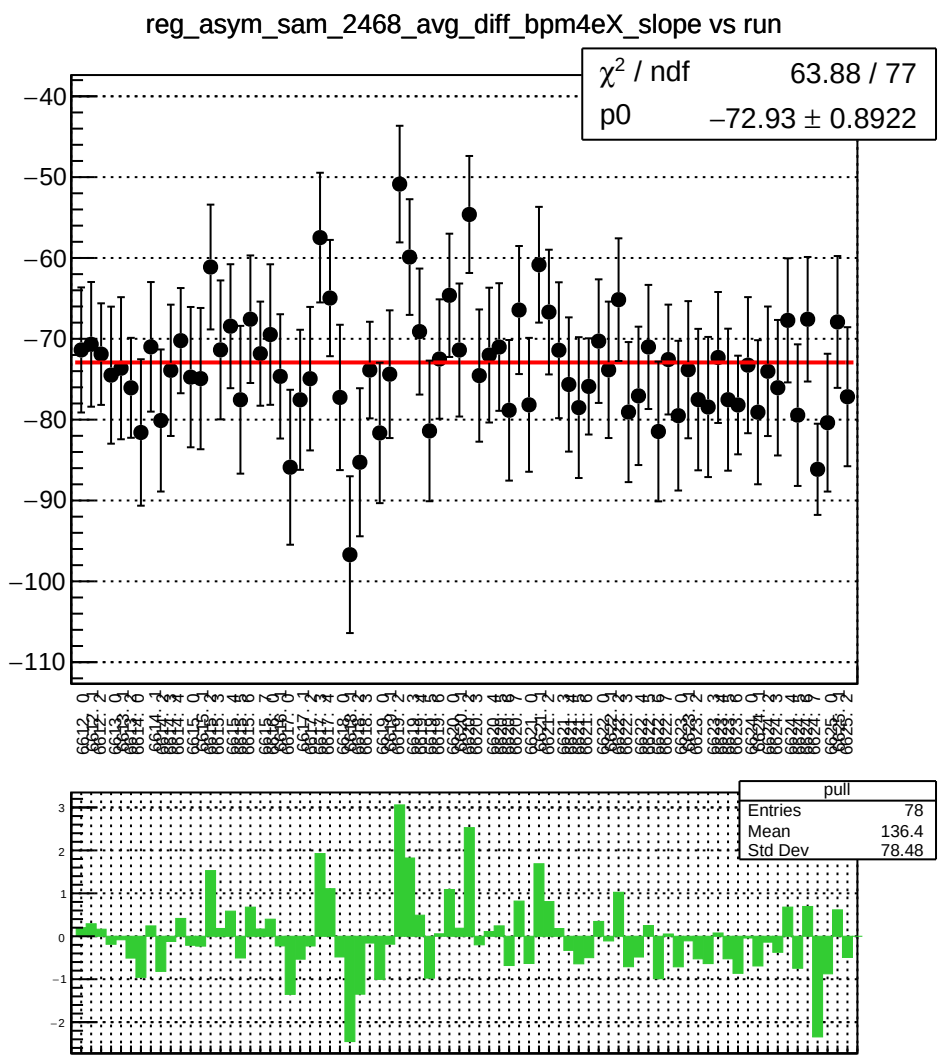

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 6.066 / 77
p0 0.3283 ± 0.01869
pull
Entries 78
Mean 6305
Std Dev 6270
pull1D
Entries 78
Mean 0.0001695
Std Dev 0.2789

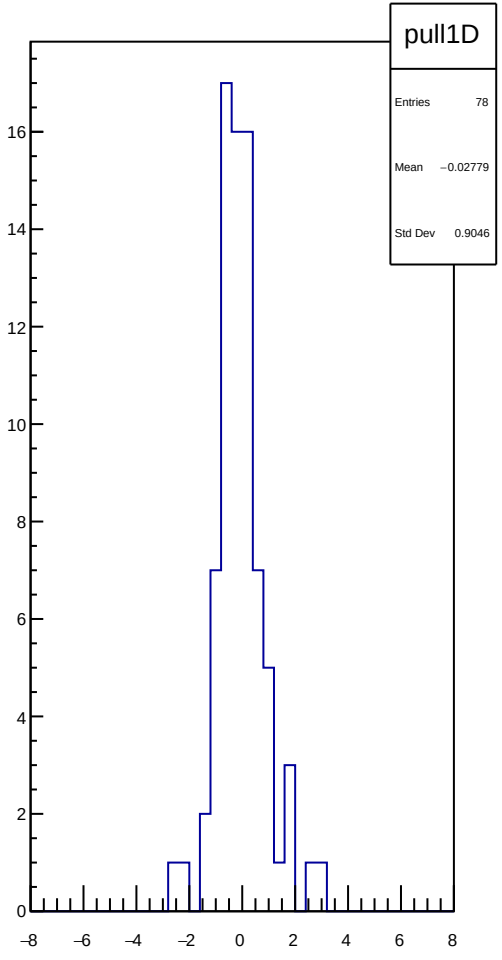

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 55.38 / 77
p0 −18.7 ± 0.8367
pull
Entries 78
Mean 222.3
Std Dev 167.4

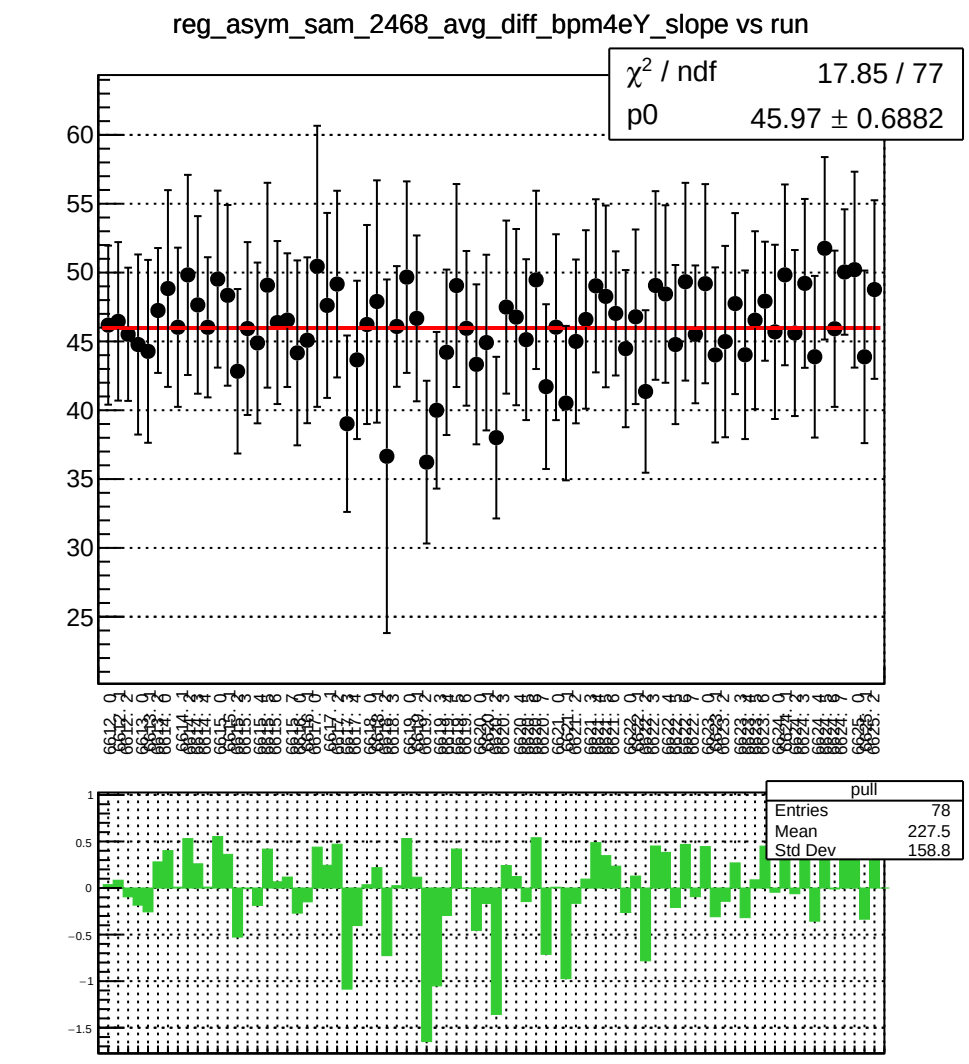

pull1D
Entries 78
Mean 0.01869
Std Dev 0.8424

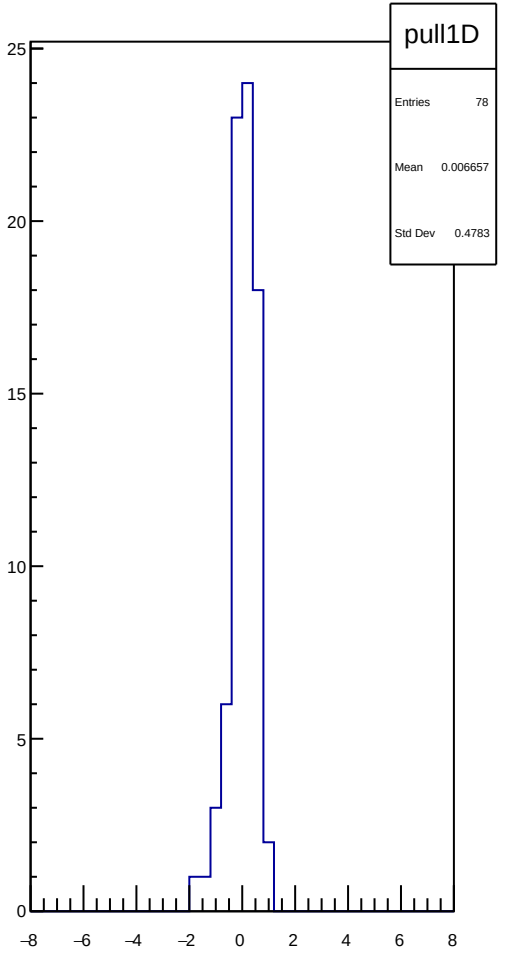

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.65 / 77
p0 −2.13 ± 0.5717
pull
Entries 78
Mean 147
Std Dev 65.46

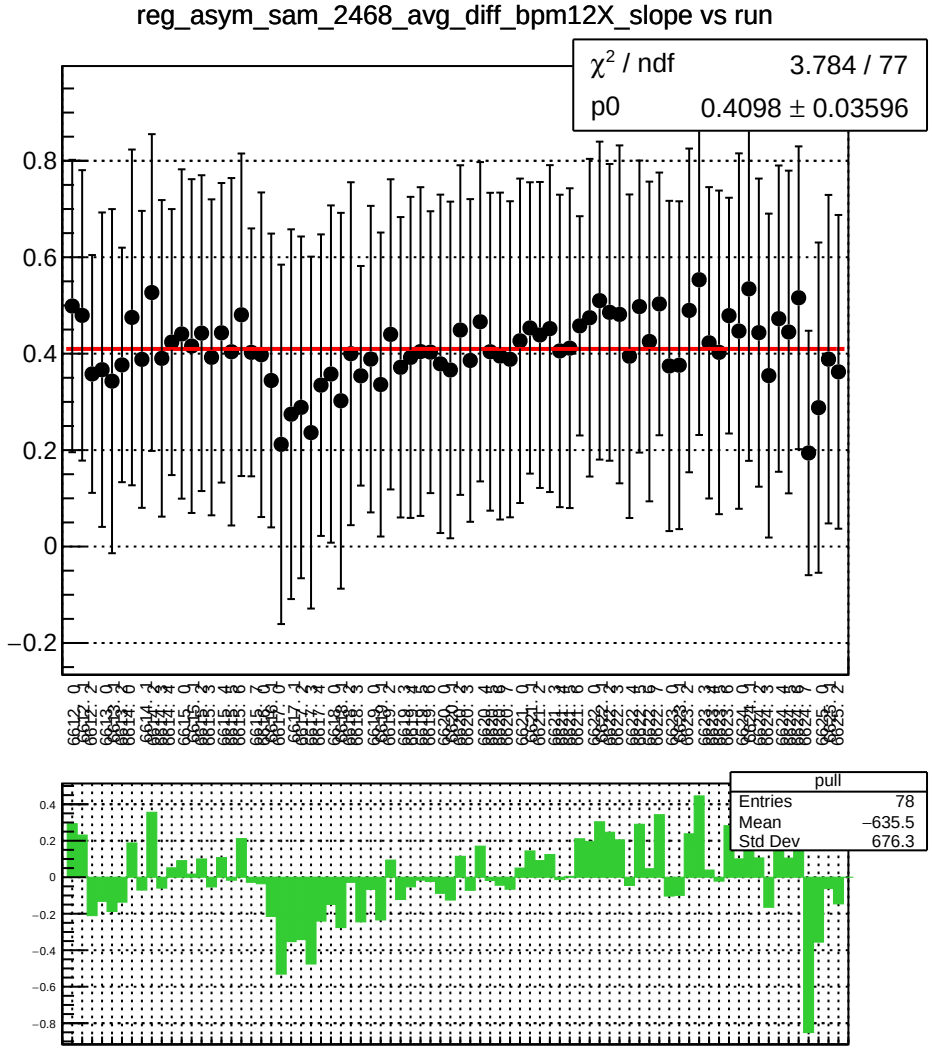

pull1D
Entries 78
Mean −0.005876
Std Dev 0.462

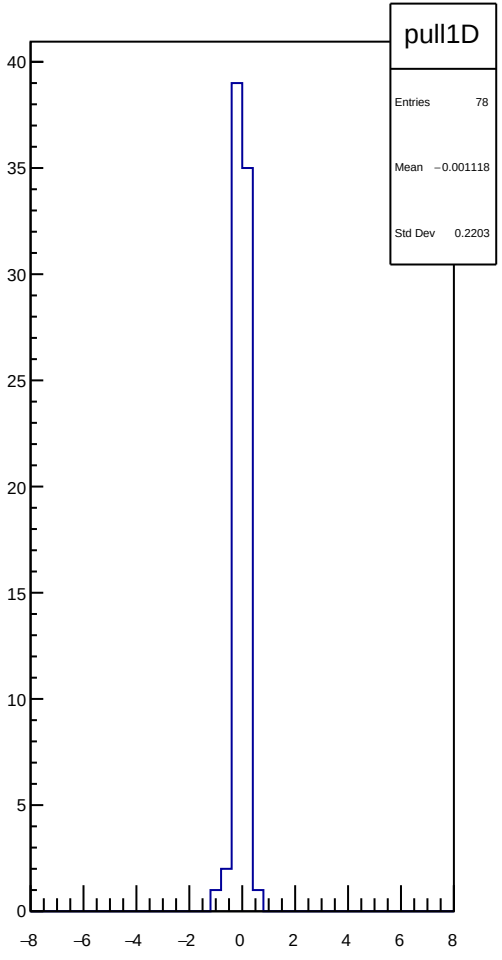

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.88 / 77
p0 −72.93 ± 0.8922
pull
Entries 78
Mean 136.4
Std Dev 78.48

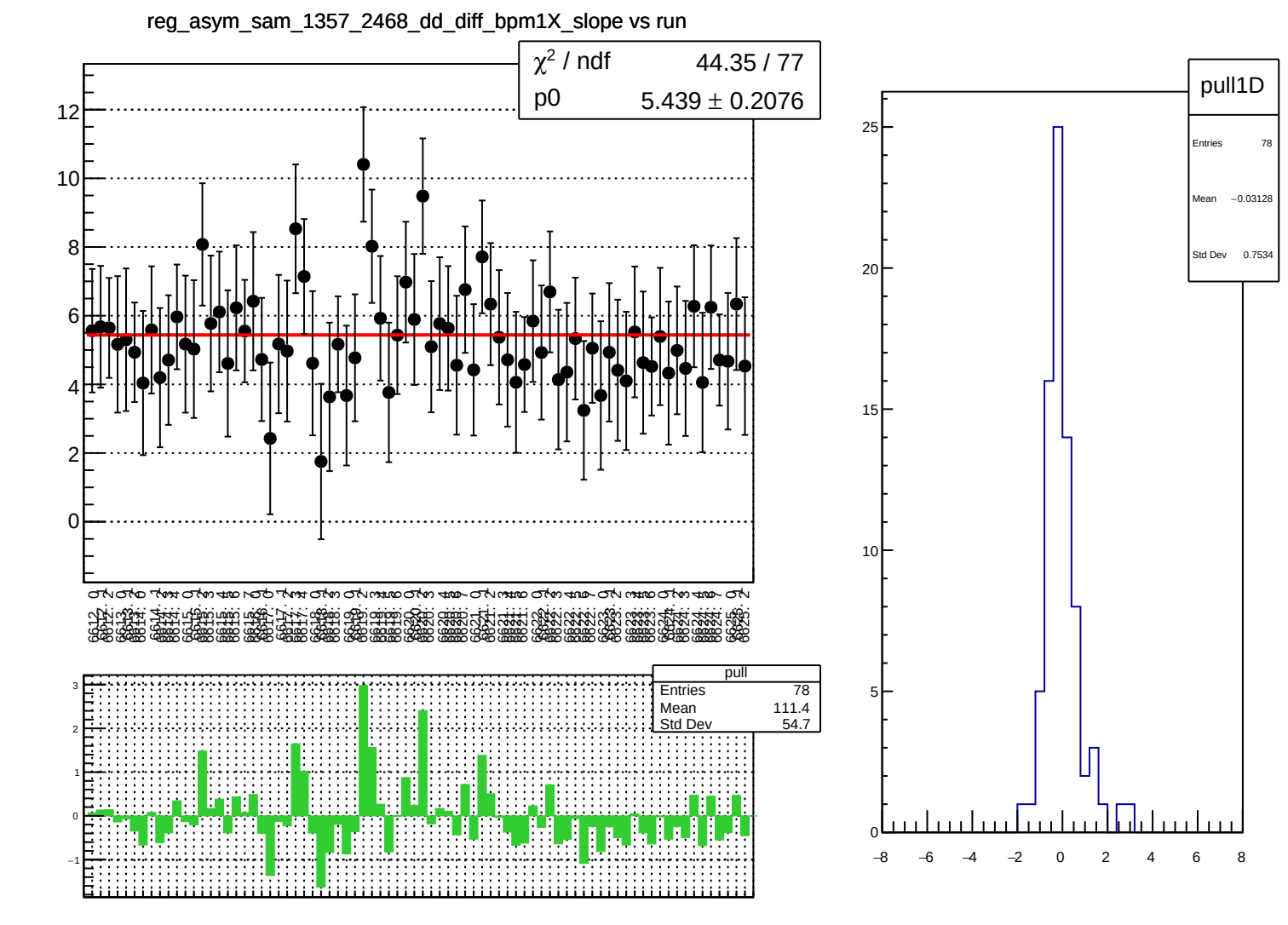

pull1D
Entries 78
Mean −0.02779
Std Dev 0.9046

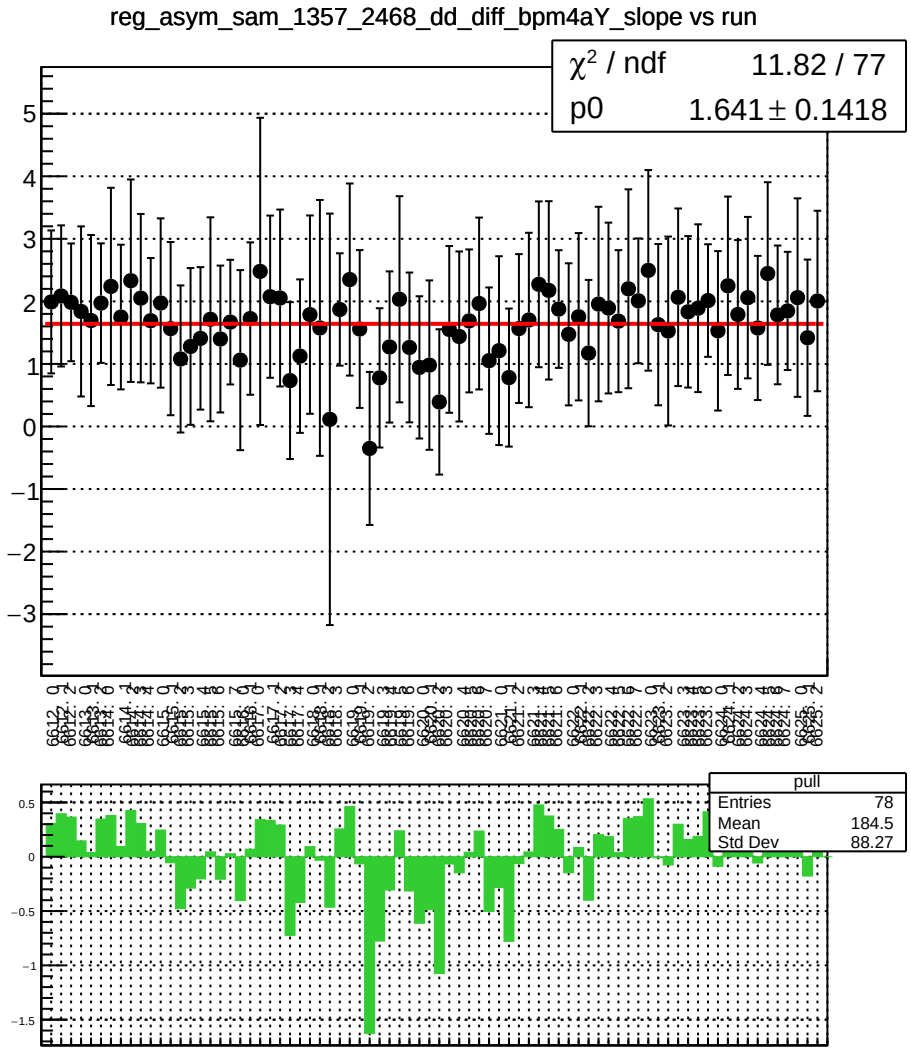

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.85 / 77
p0 45.97 ± 0.6882
pull
Entries 78
Mean 227.5
Std Dev 158.8

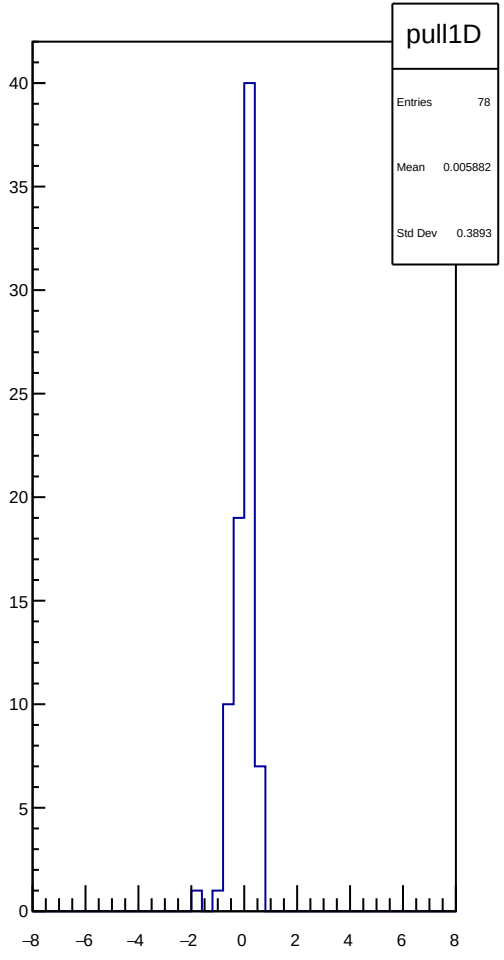

pull1D
Entries 78
Mean 0.006657
Std Dev 0.4783

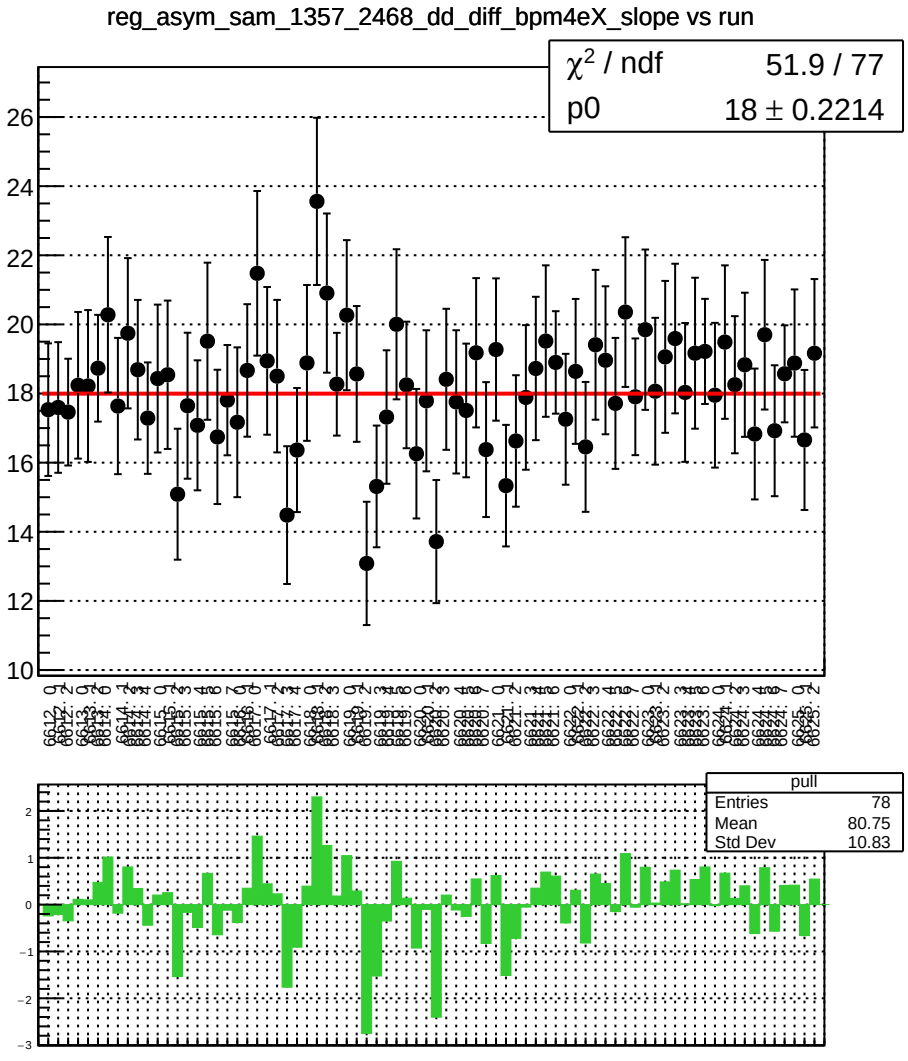

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.784 / 77
p0 0.4098 ± 0.03596
pull
Entries 78
Mean −635.5
Std Dev 676.3

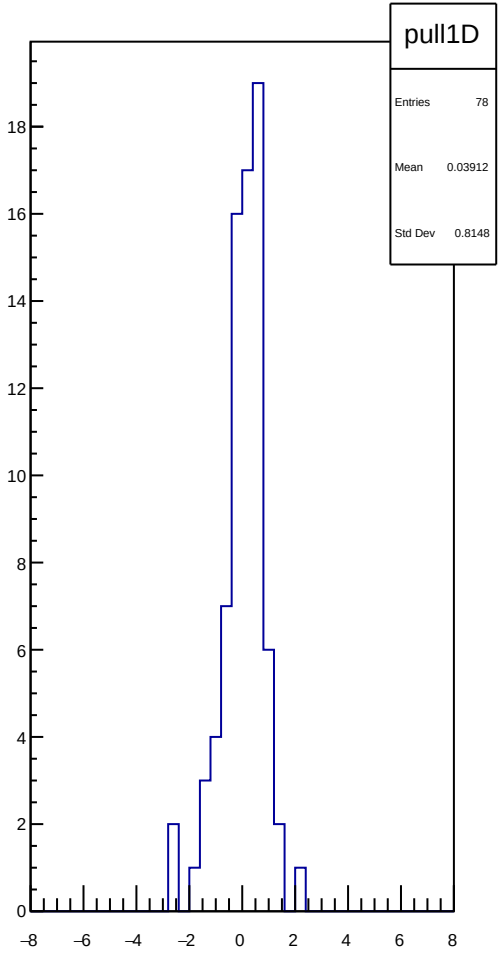

pull1D
Entries 78
Mean −0.001118
Std Dev 0.2203

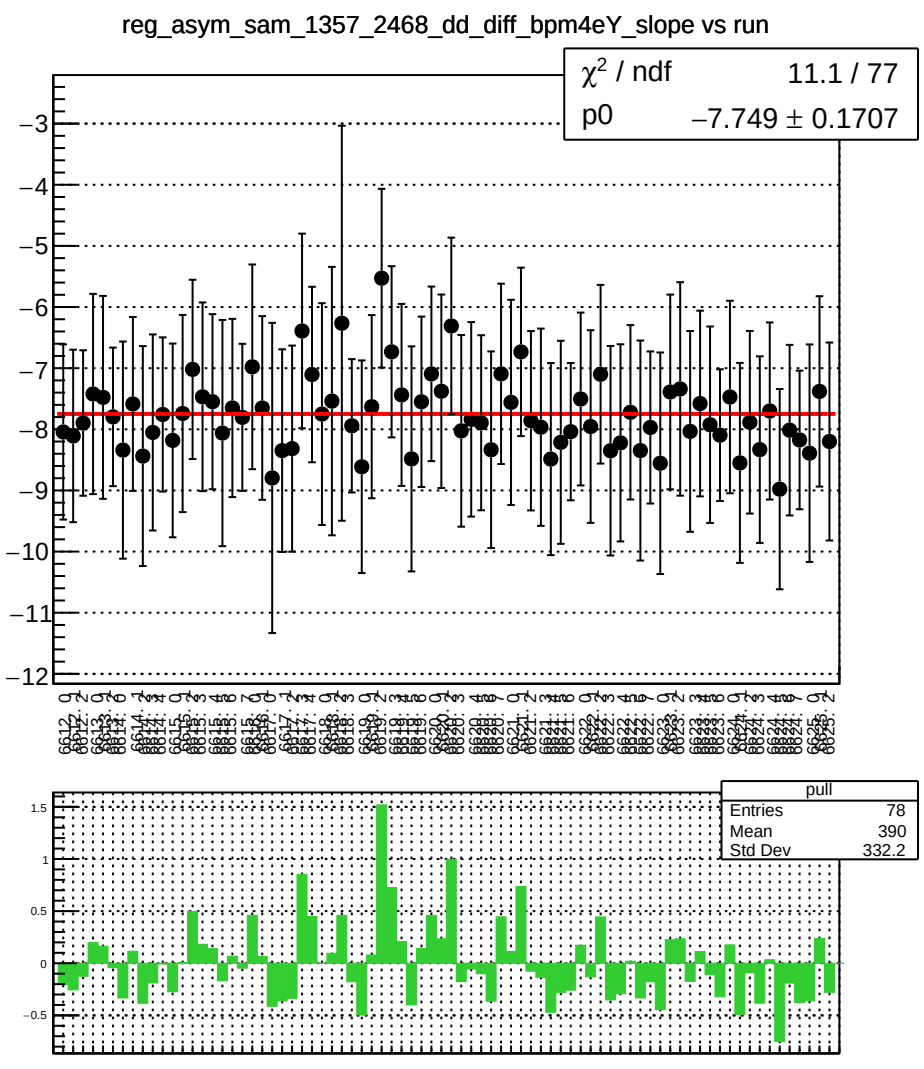

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 44.35 / 77
p0 5.439 ± 0.2076
pull
Entries 78
Mean 111.4
Std Dev 54.7
pull1D
Entries 78
Mean −0.03128
Std Dev 0.7534

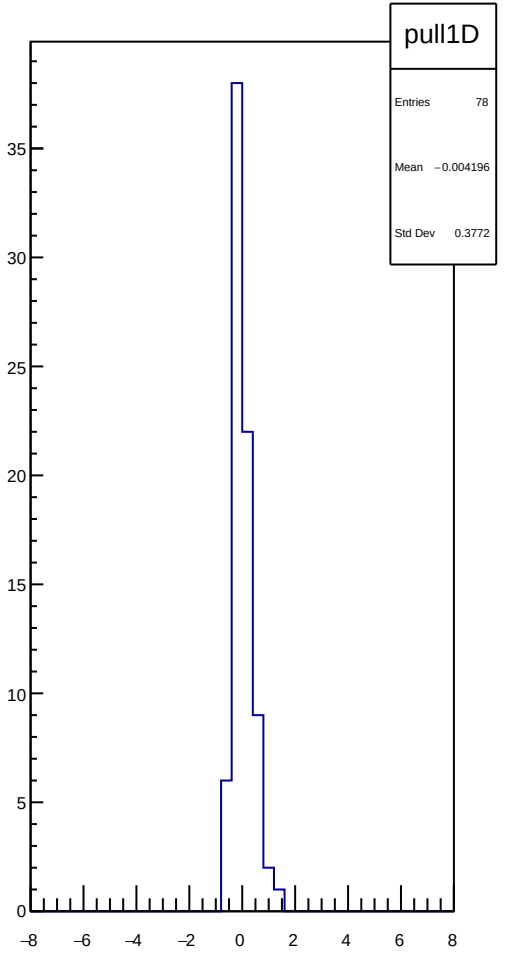

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.82 / 77
p0 1.641 ± 0.1418
pull
Entries 78
Mean 184.5
Std Dev 88.27

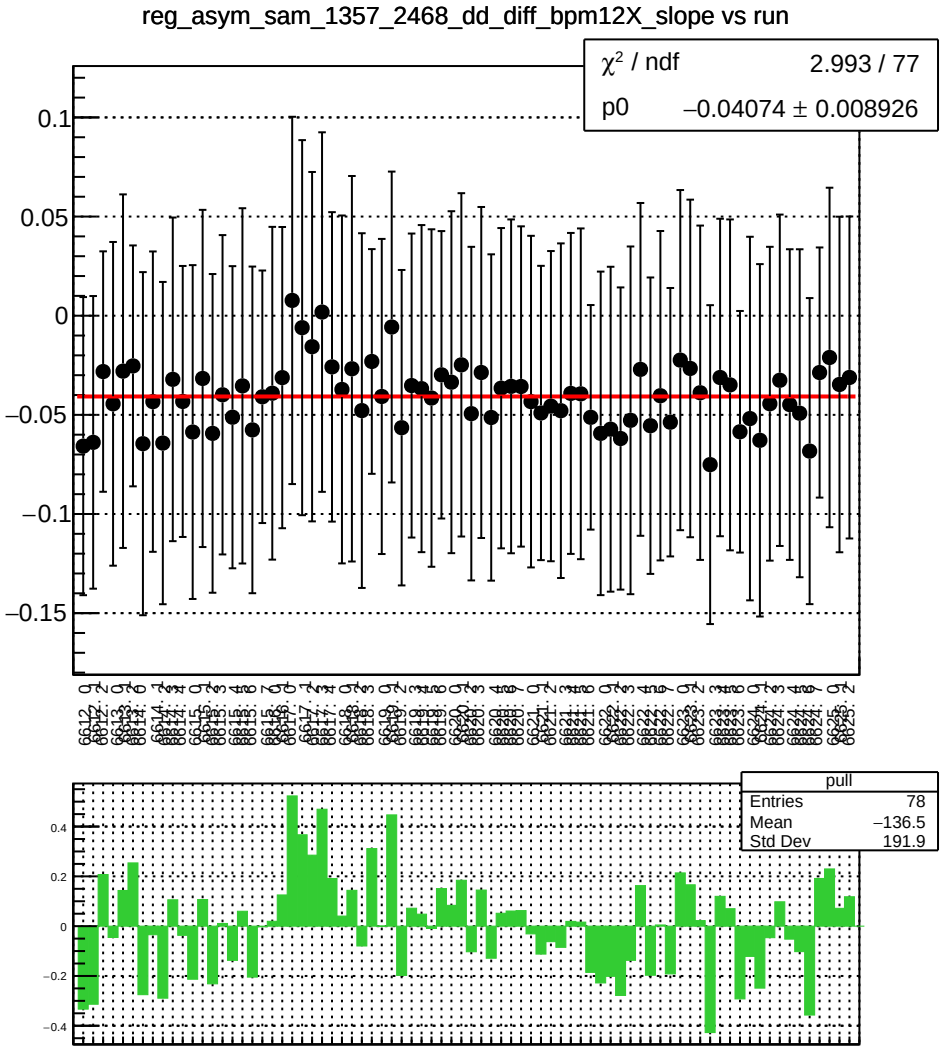

pull1D
Entries 78
Mean 0.005882
Std Dev 0.3893

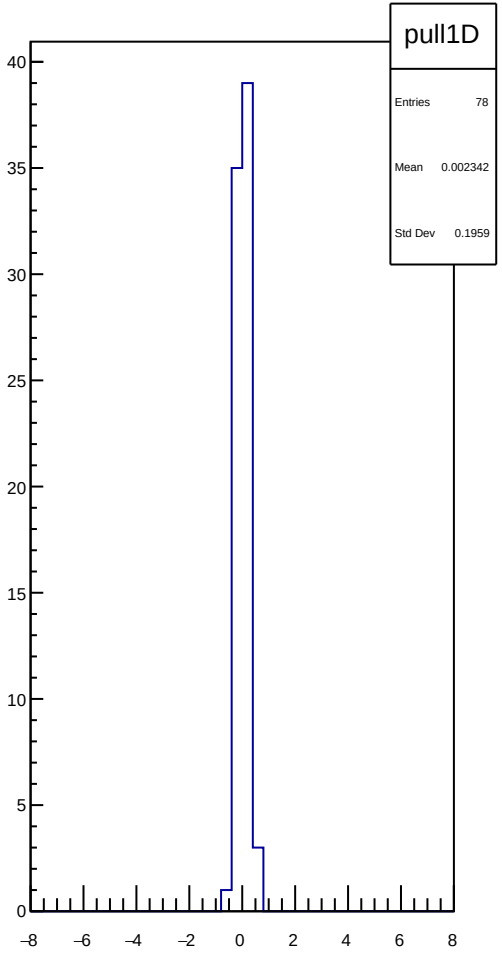

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.9 / 77
p0 18 ± 0.2214
pull
Entries 78
Mean 80.75
Std Dev 10.83

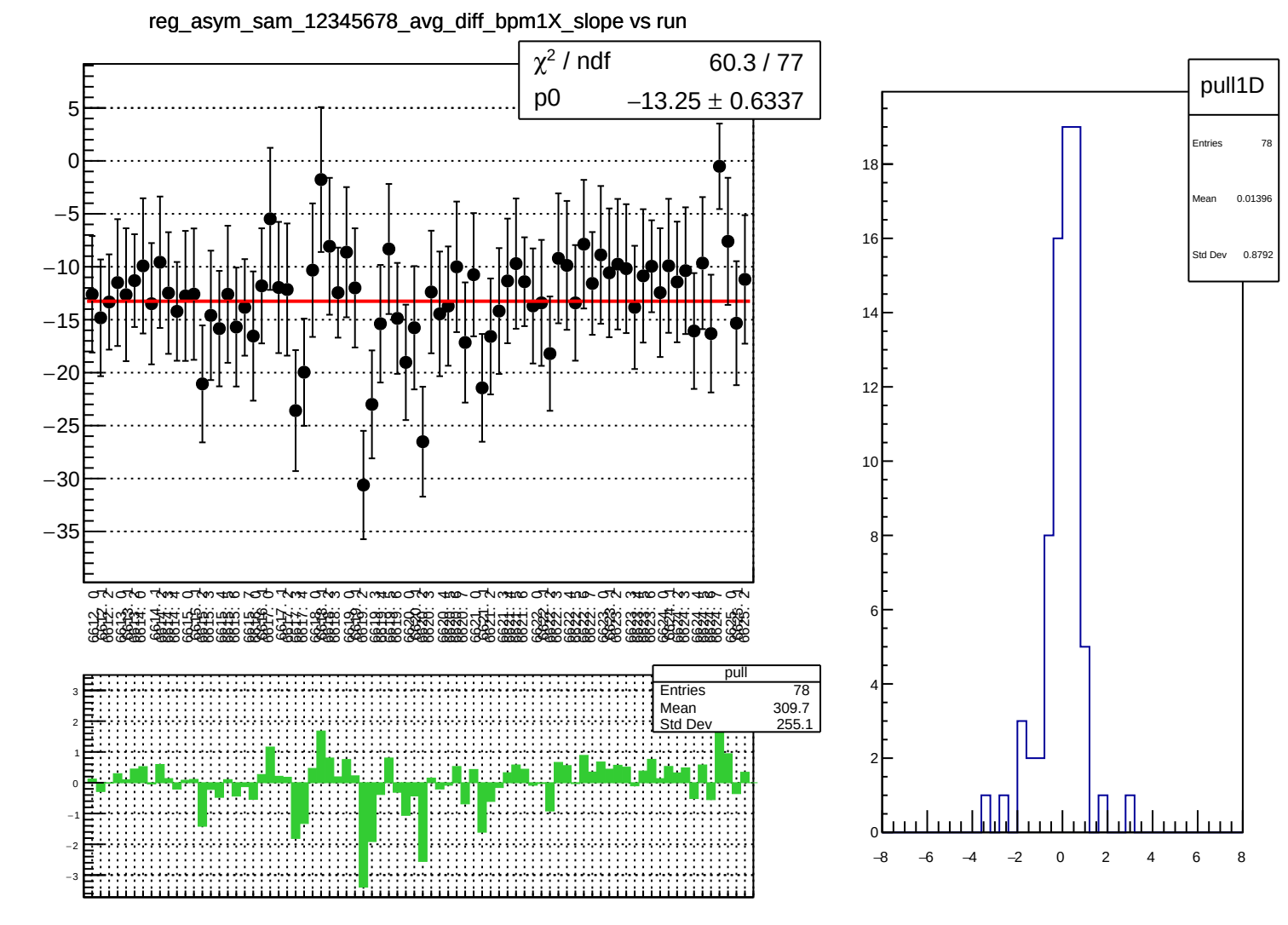

pull1D
Entries 78
Mean 0.03912
Std Dev 0.8148

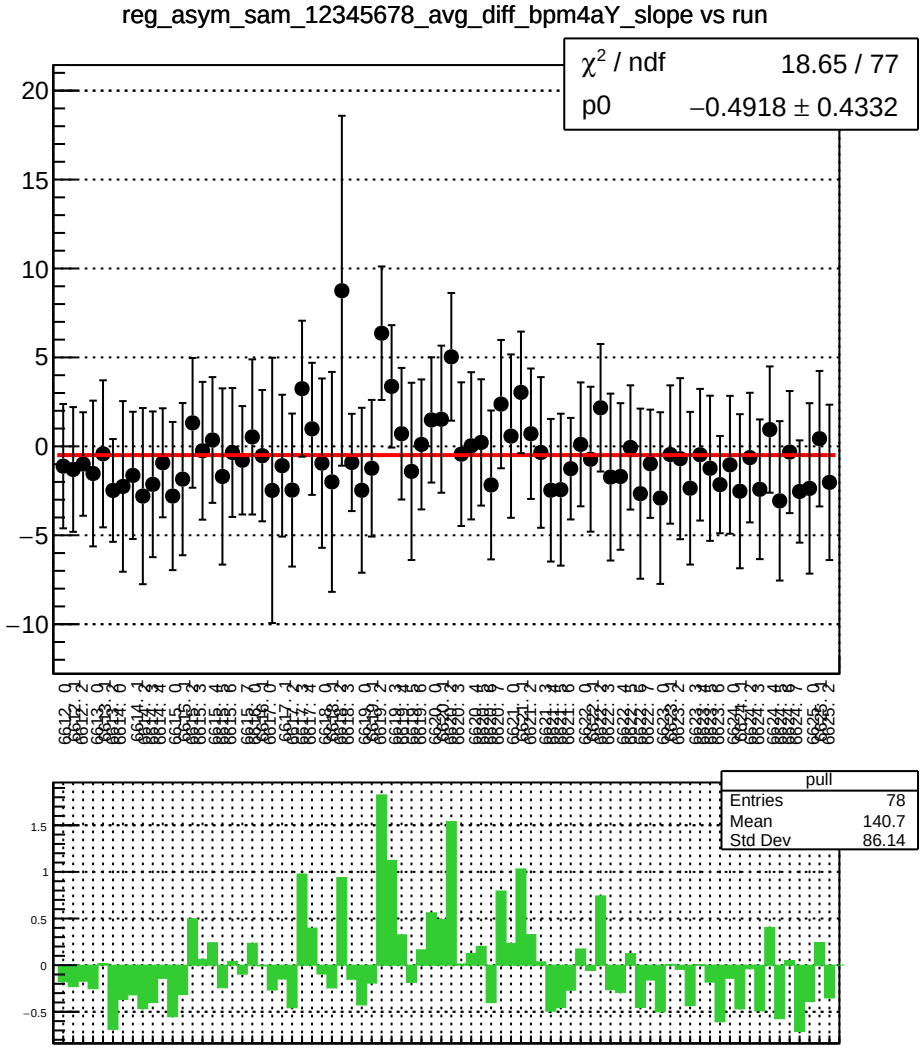

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.1 / 77
p0 −7.749 ± 0.1707
pull
Entries 78
Mean 390
Std Dev 332.2

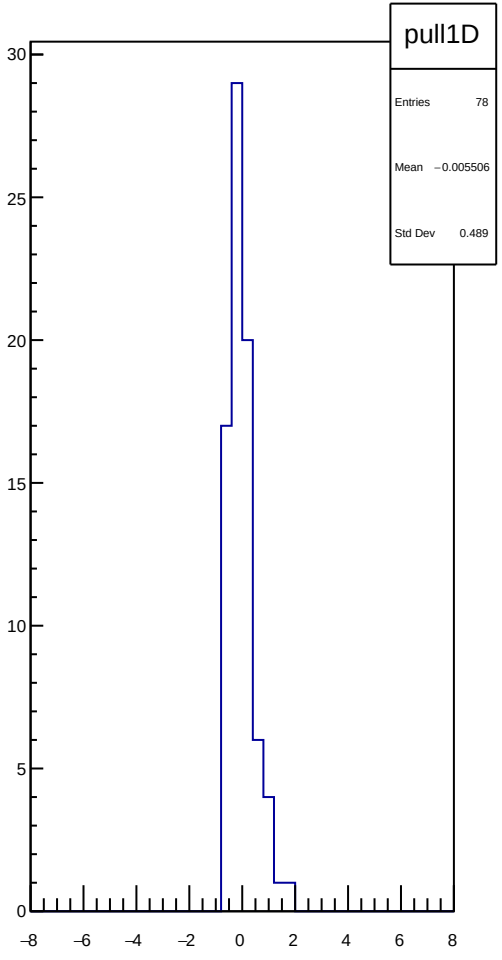

pull1D
Entries 78
Mean −0.004196
Std Dev 0.3772

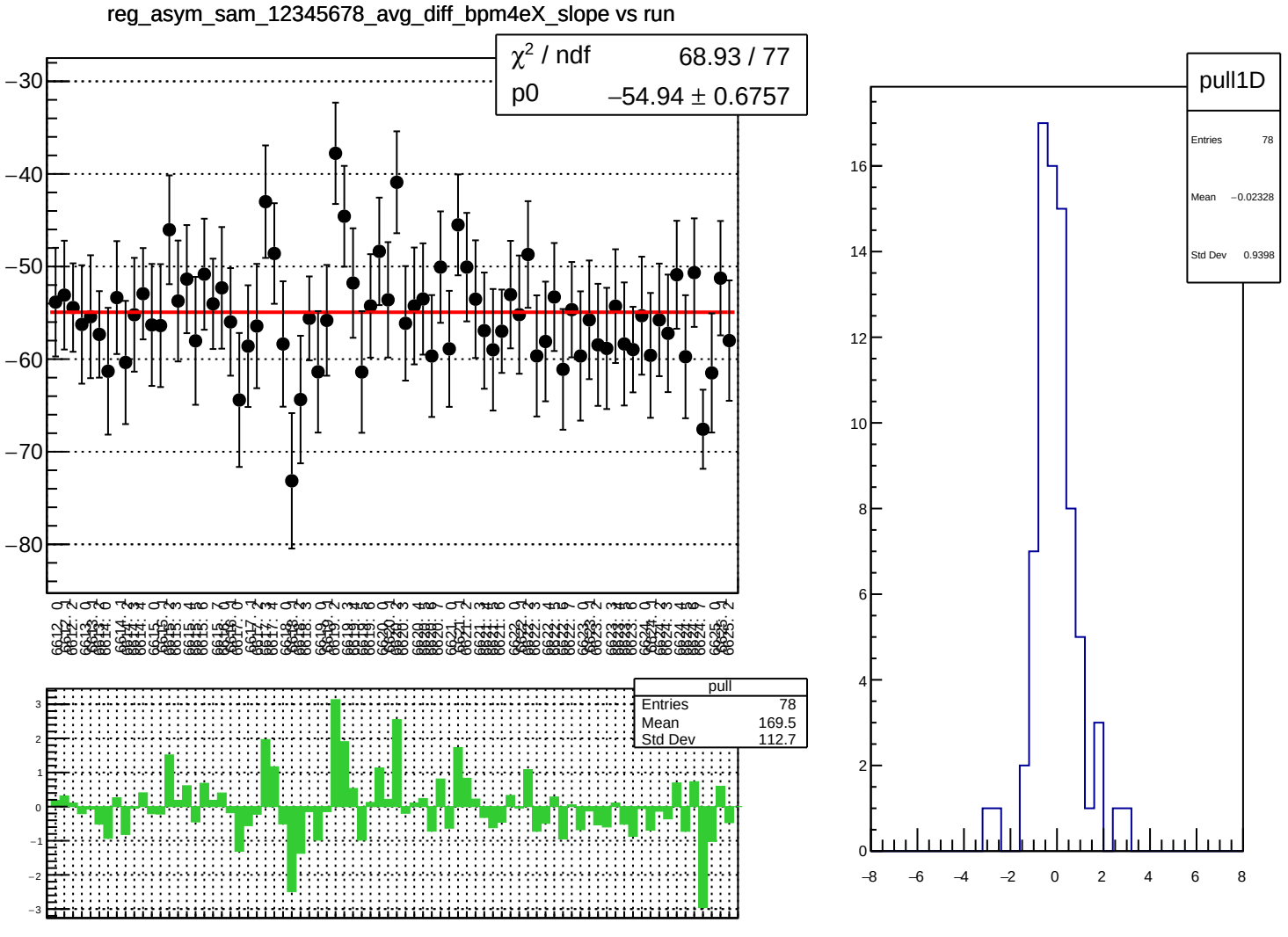

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.993 / 77
p0 −0.04074 ± 0.008926
pull
Entries 78
Mean −136.5
Std Dev 191.9

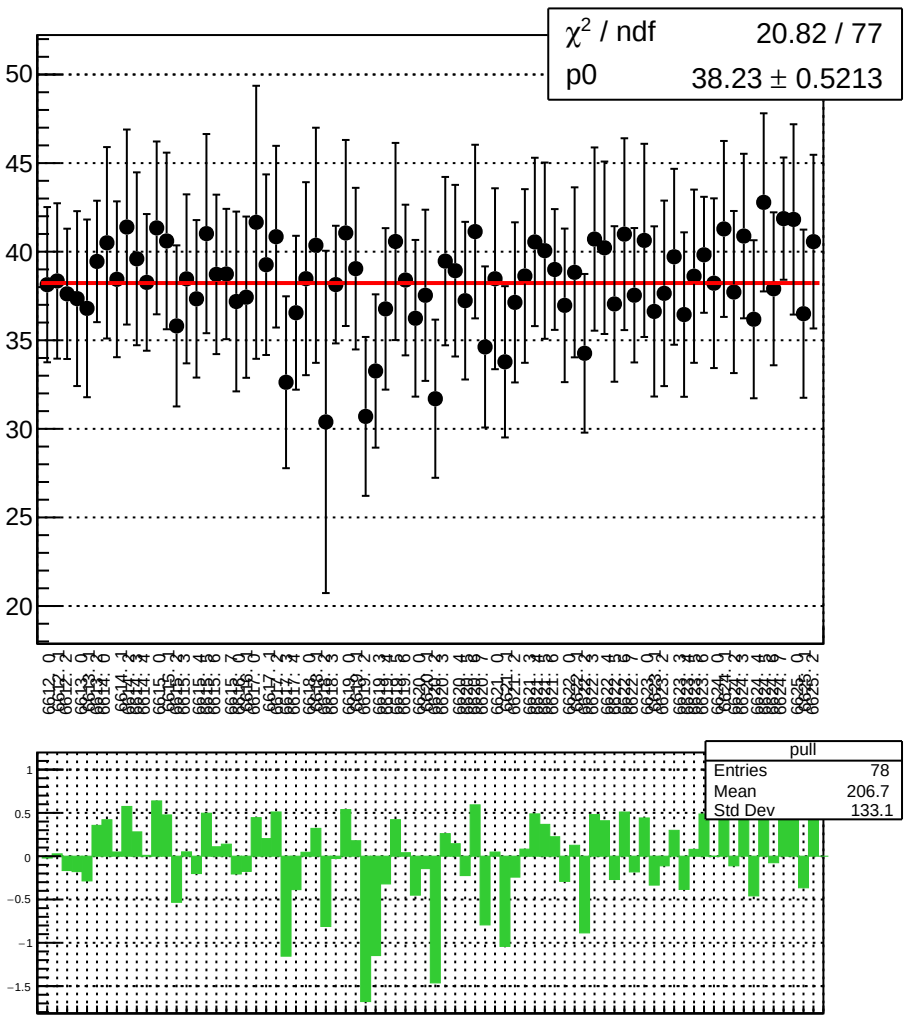

pull1D
Entries 78
Mean 0.002342
Std Dev 0.1959

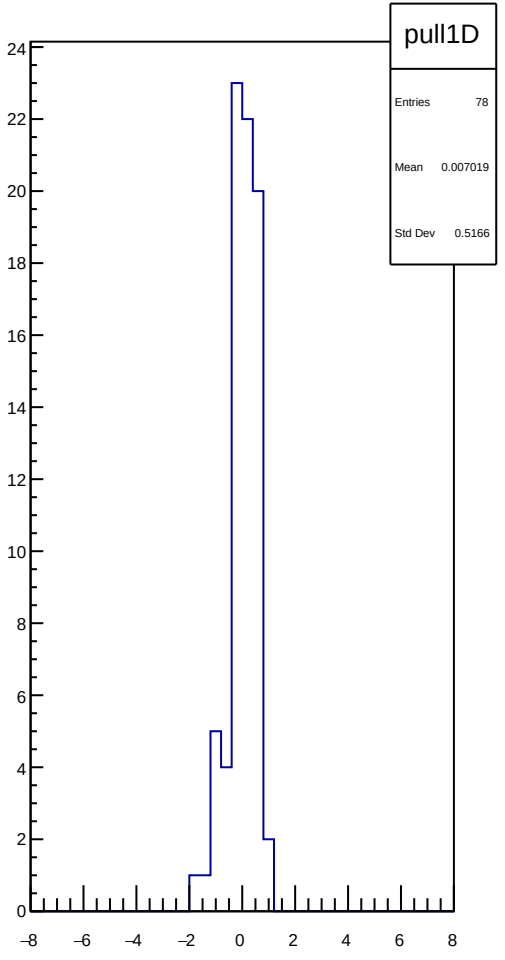

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 60.3 / 77
p0 −13.25 ± 0.6337
pull
Entries 78
Mean 309.7
Std Dev 255.1
pull1D
Entries 78
Mean 0.01396
Std Dev 0.8792

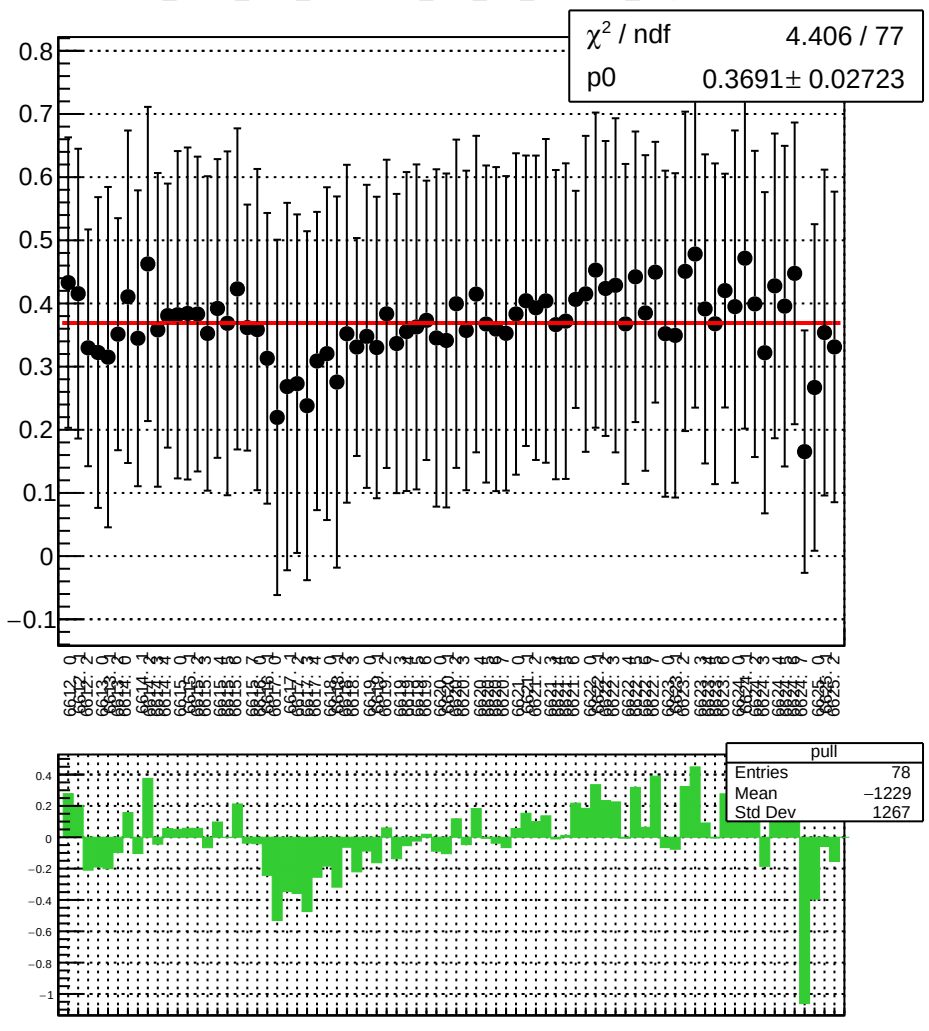

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.65 / 77
p0 −0.4918 ± 0.4332
pull
Entries 78
Mean 140.7
Std Dev 86.14

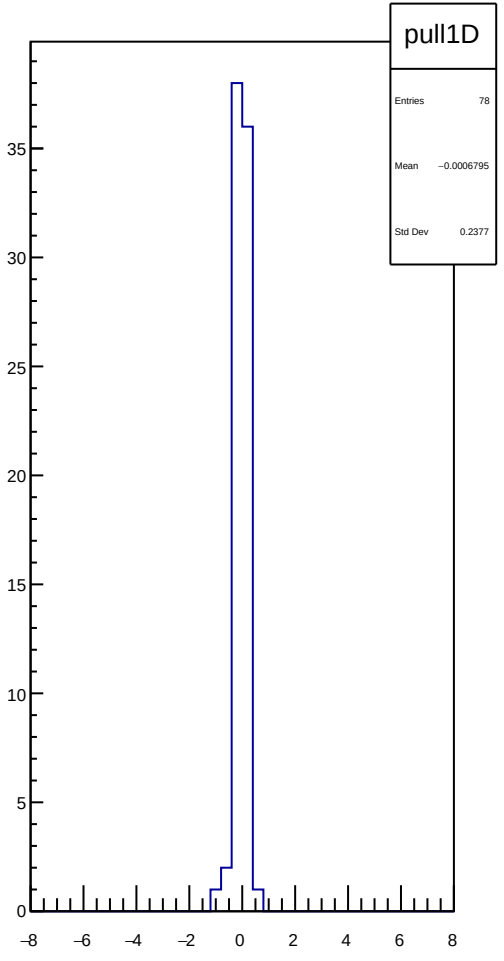

pull1D
Entries 78
Mean −0.005506
Std Dev 0.489

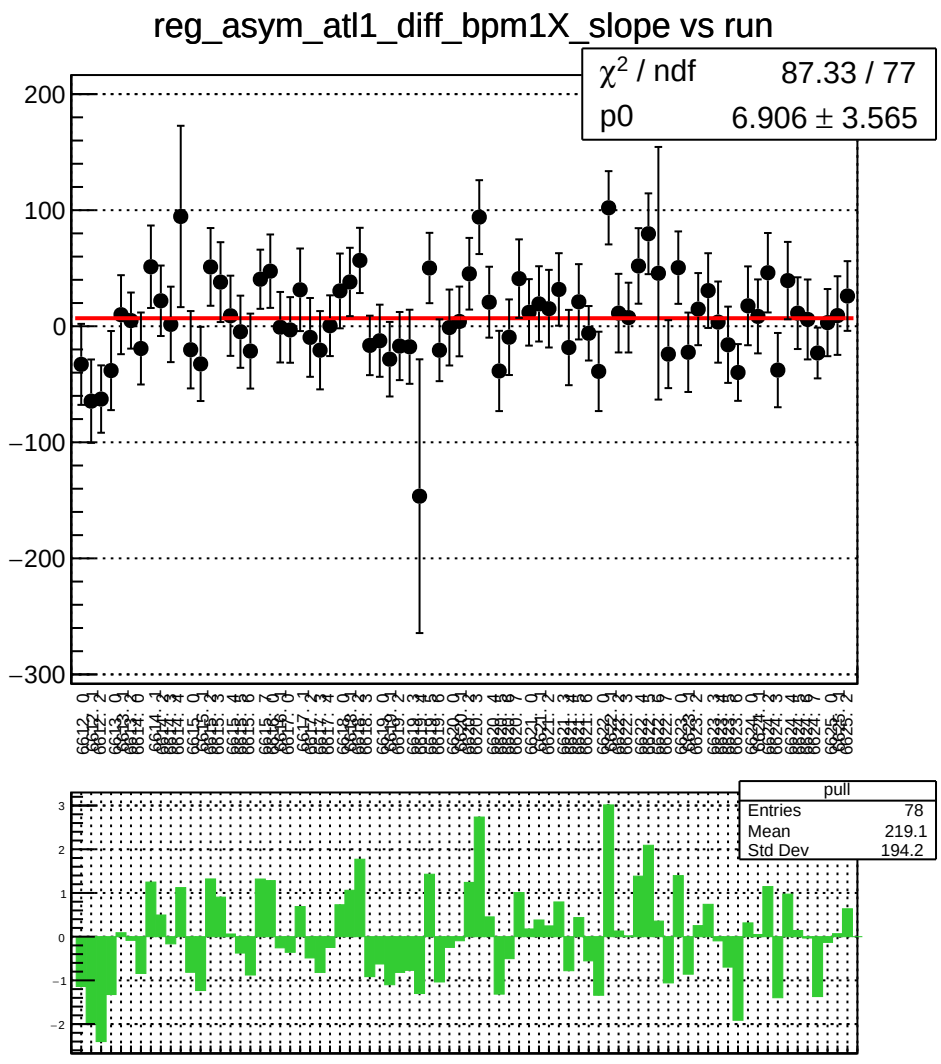

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.93 / 77
p0 −54.94 ± 0.6757
pull
Entries 78
Mean 169.5
Std Dev 112.7
pull1D
Entries 78
Mean −0.02328
Std Dev 0.9398

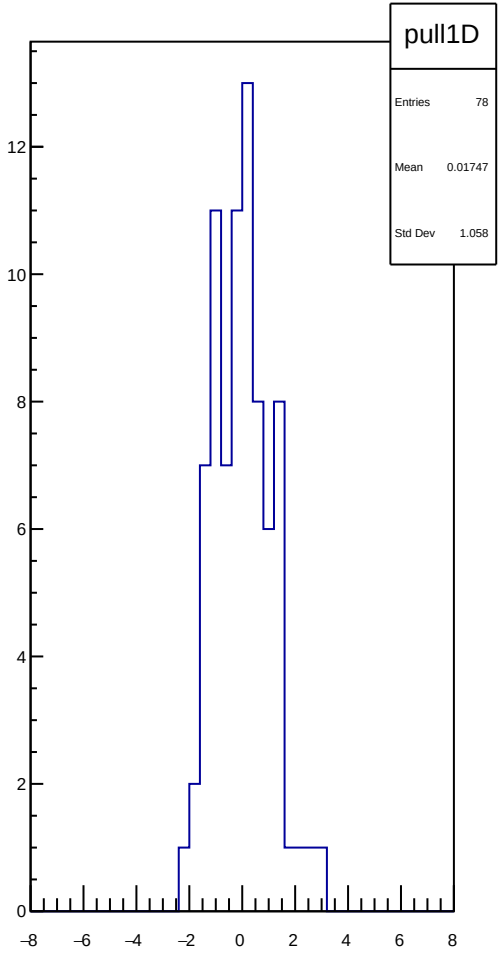

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.82 / 77
p0 38.23 ± 0.5213
pull
Entries 78
Mean 206.7
Std Dev 133.1

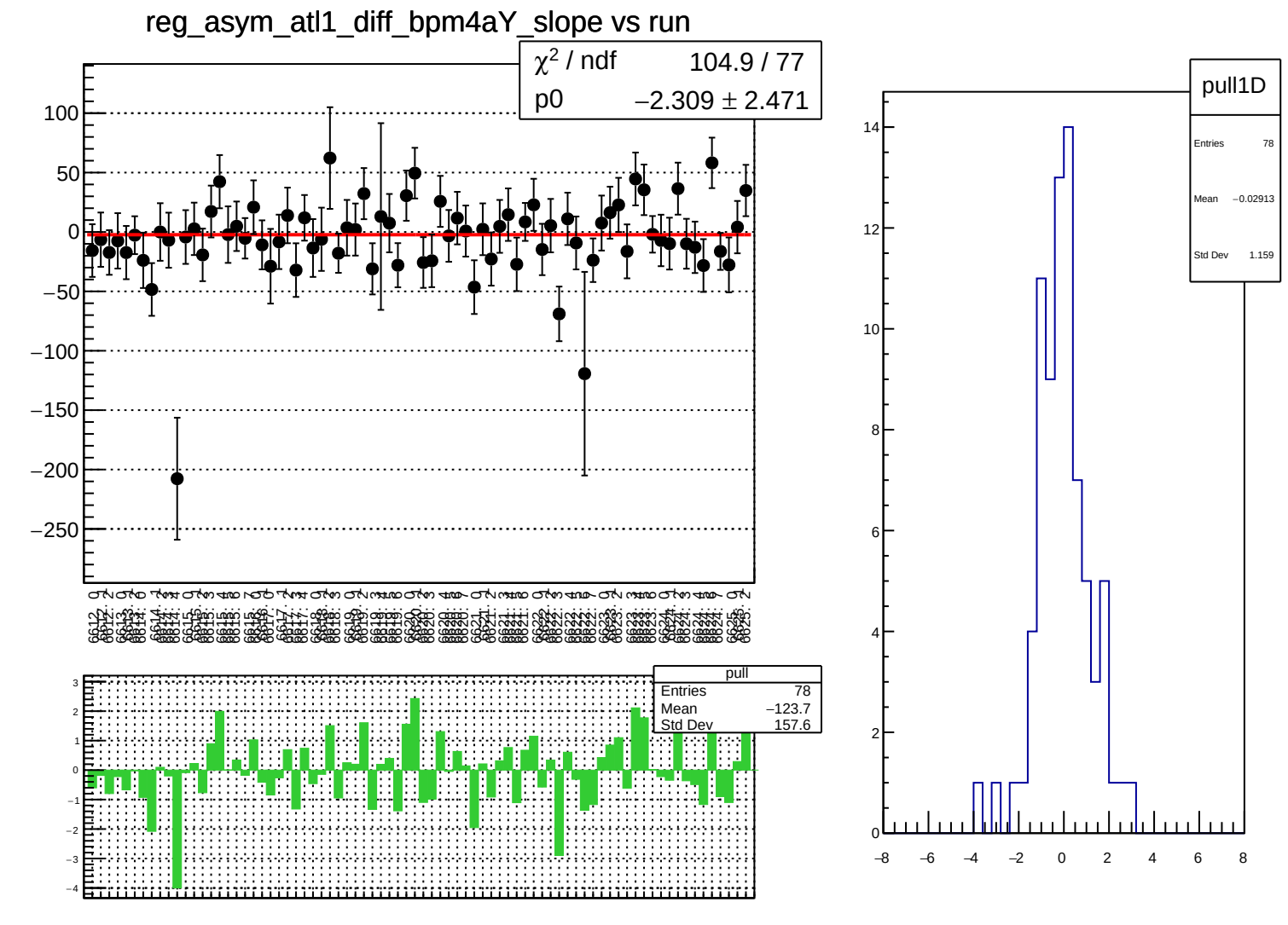

pull1D
Entries 78
Mean 0.007019
Std Dev 0.5166

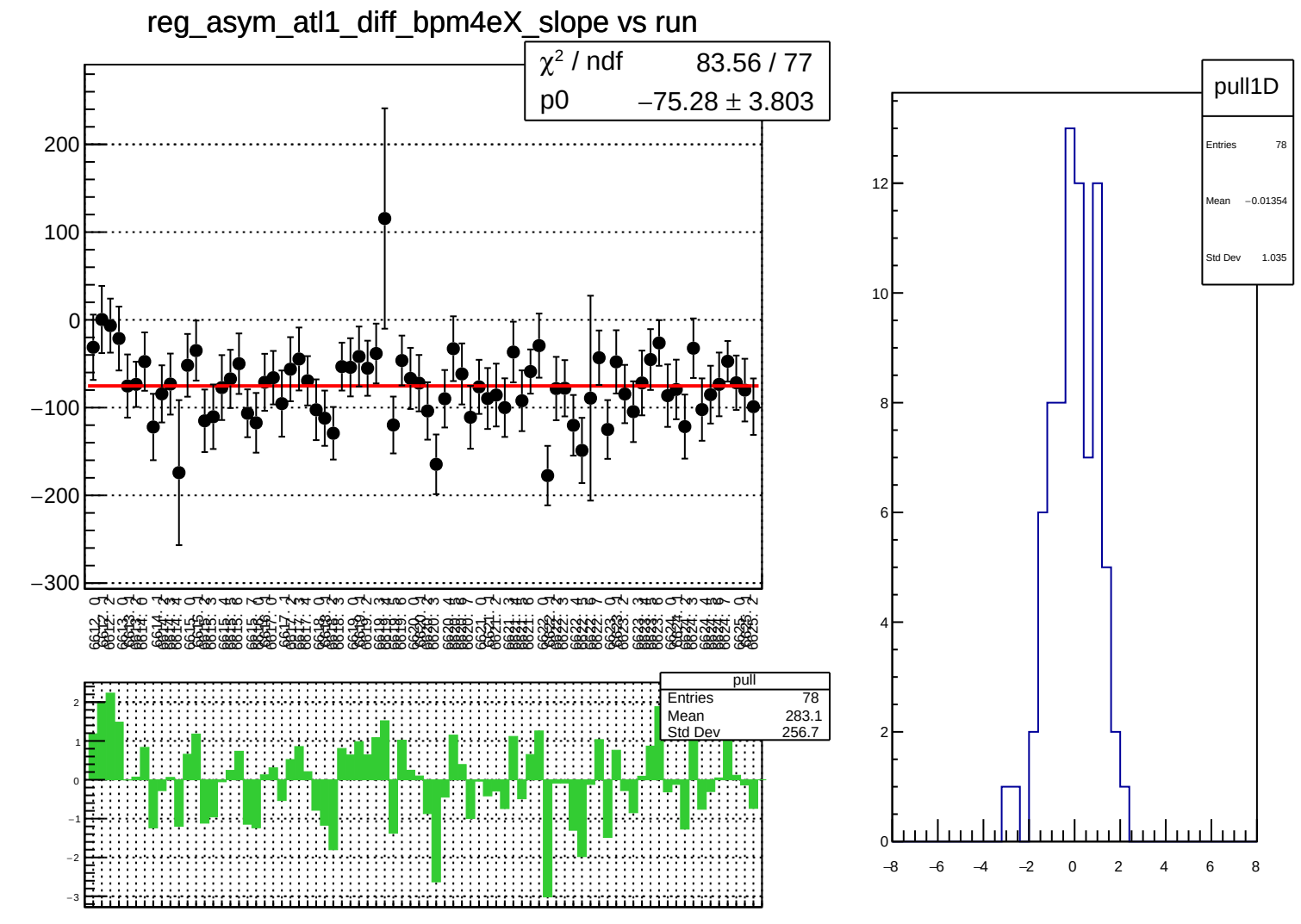

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 4.406 / 77
p0 0.3691± 0.02723
pull
Entries 78
Mean −1229
Std Dev 1267

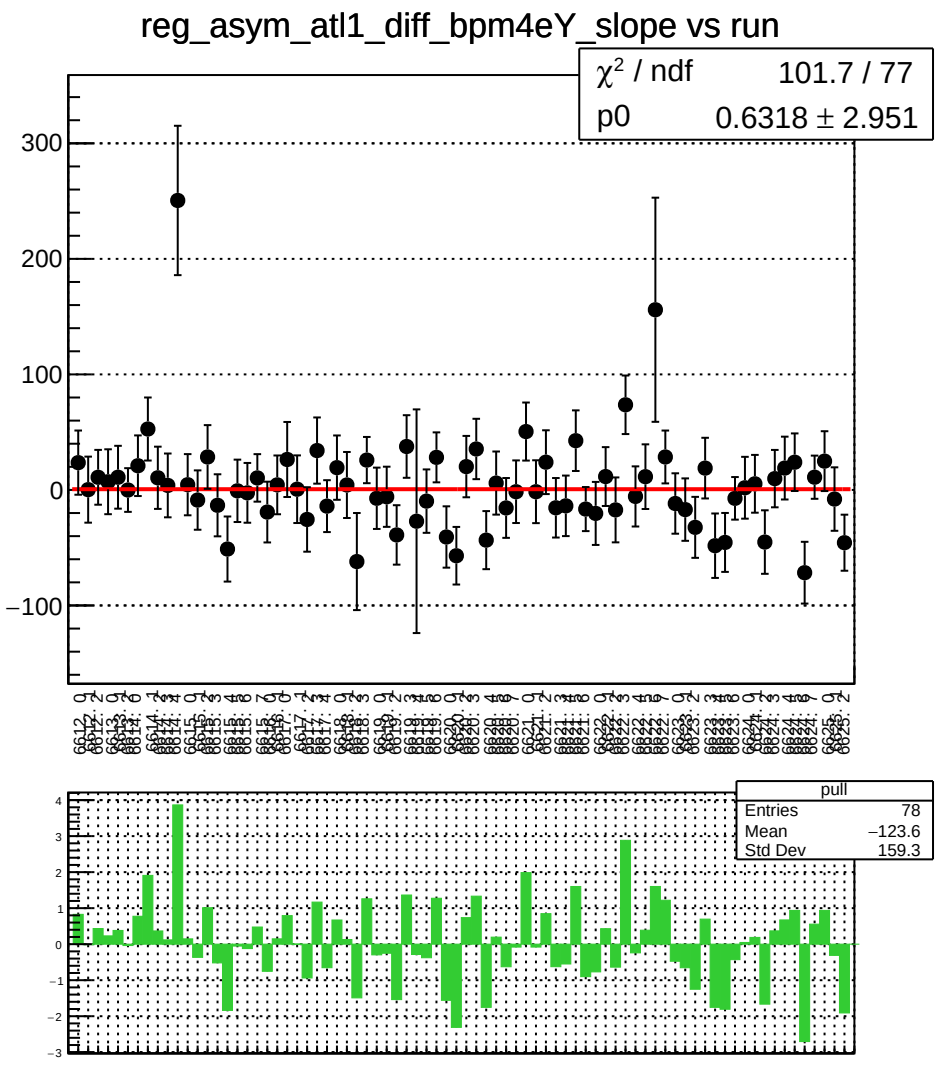

pull1D
Entries 78
Mean −0.0006795
Std Dev 0.2377

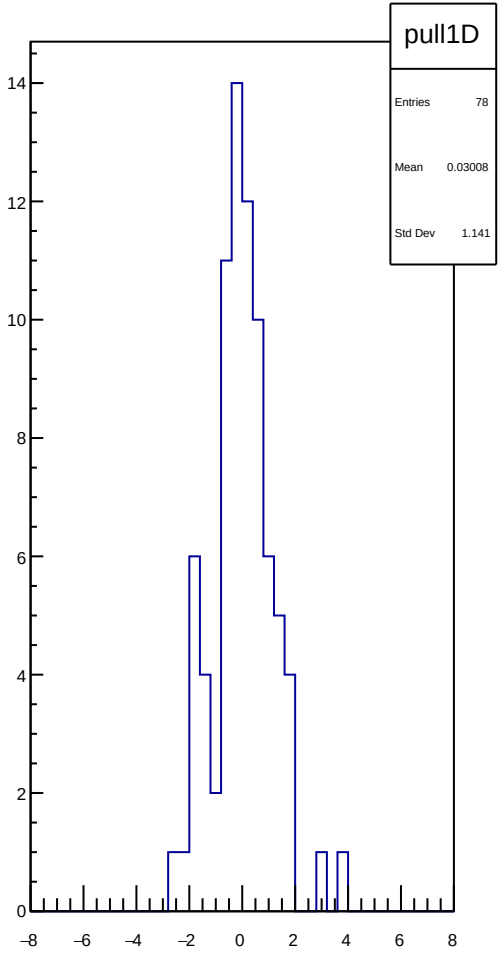

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 87.33 / 77
p0 6.906 ± 3.565
pull
Entries 78
Mean 219.1
Std Dev 194.2

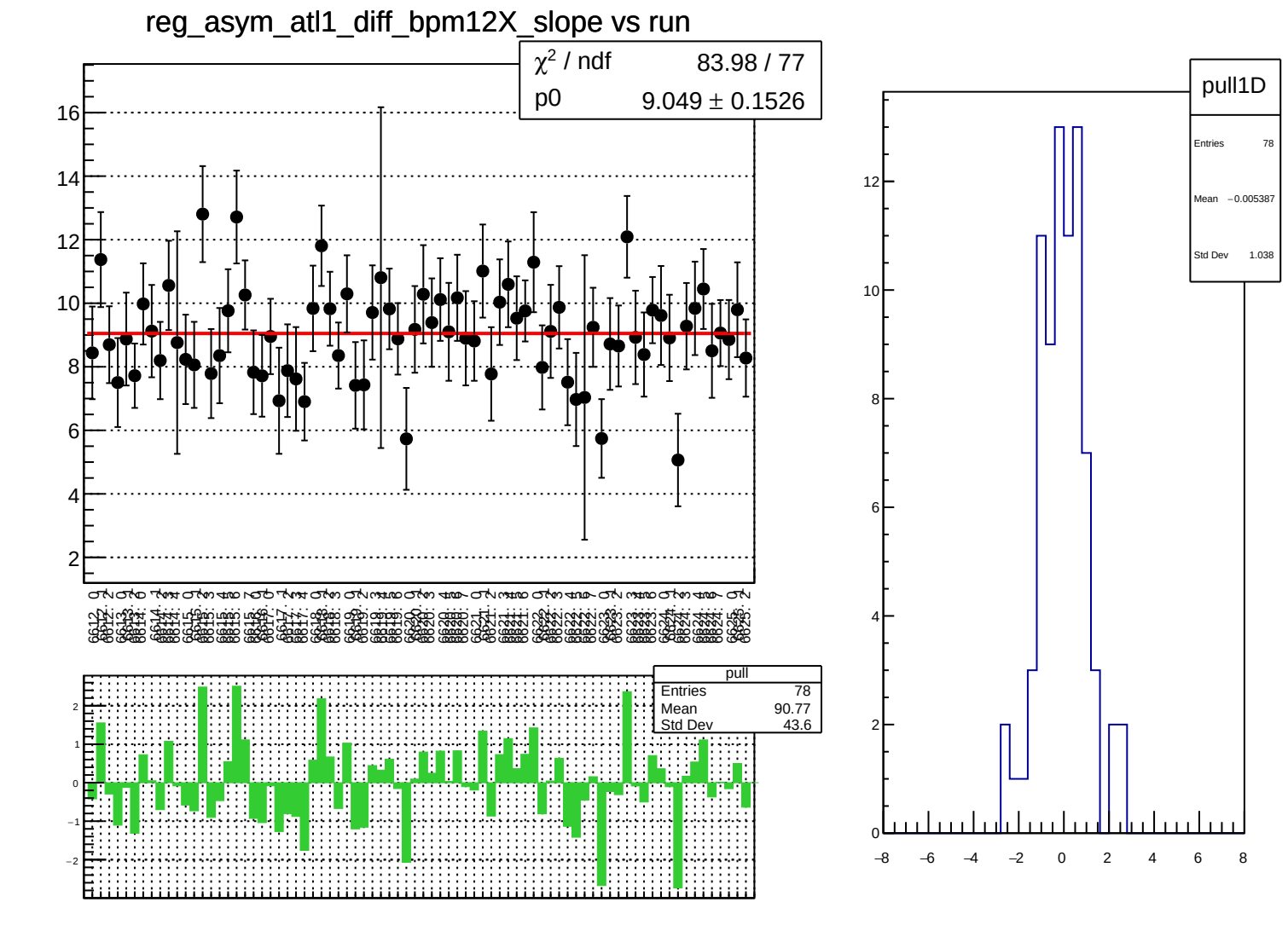

pull1D
Entries 78
Mean 0.01747
Std Dev 1.058

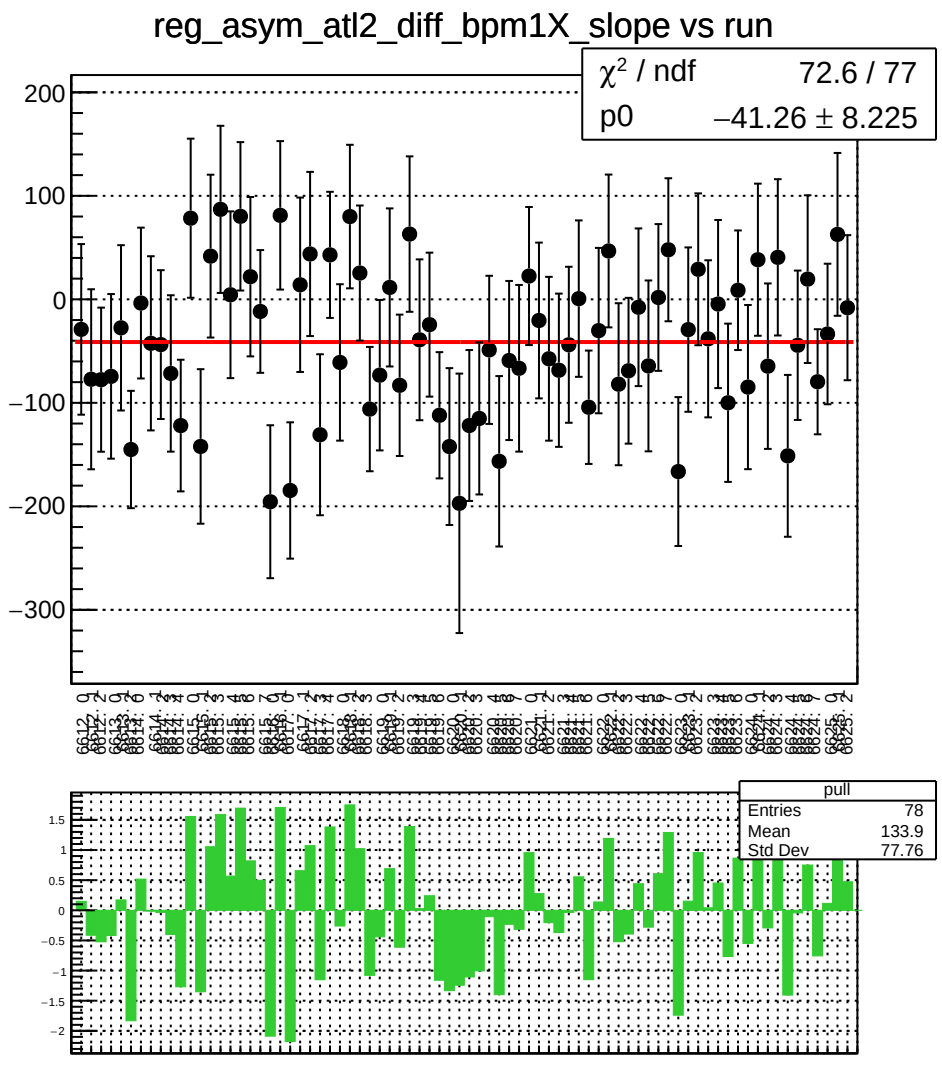

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 104.9 / 77
p0 −2.309 ± 2.471
pull
Entries 78
Mean −123.7
Std Dev 157.6
pull1D
Entries 78
Mean −0.02913
Std Dev 1.159

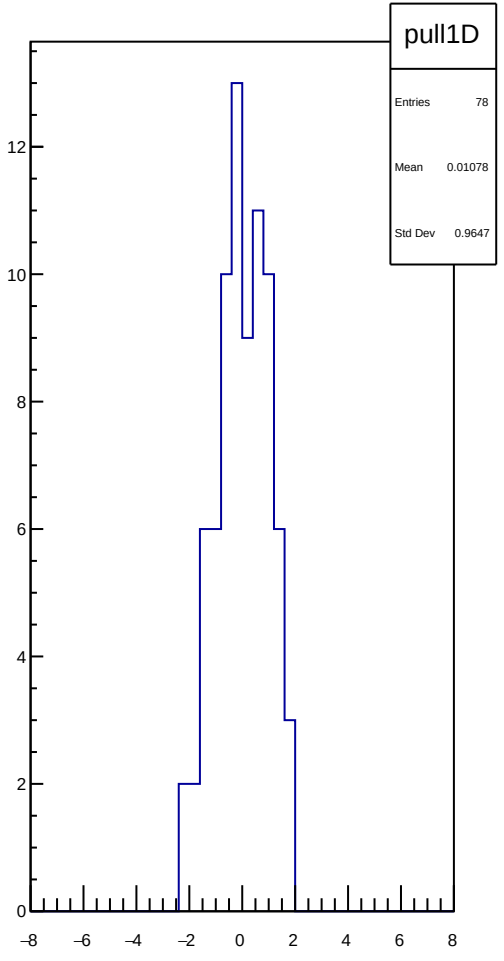

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 83.56 / 77
p0 −75.28 ± 3.803
pull
Entries 78
Mean 283.1
Std Dev 256.7
pull1D
Entries 78
Mean −0.01354
Std Dev 1.035

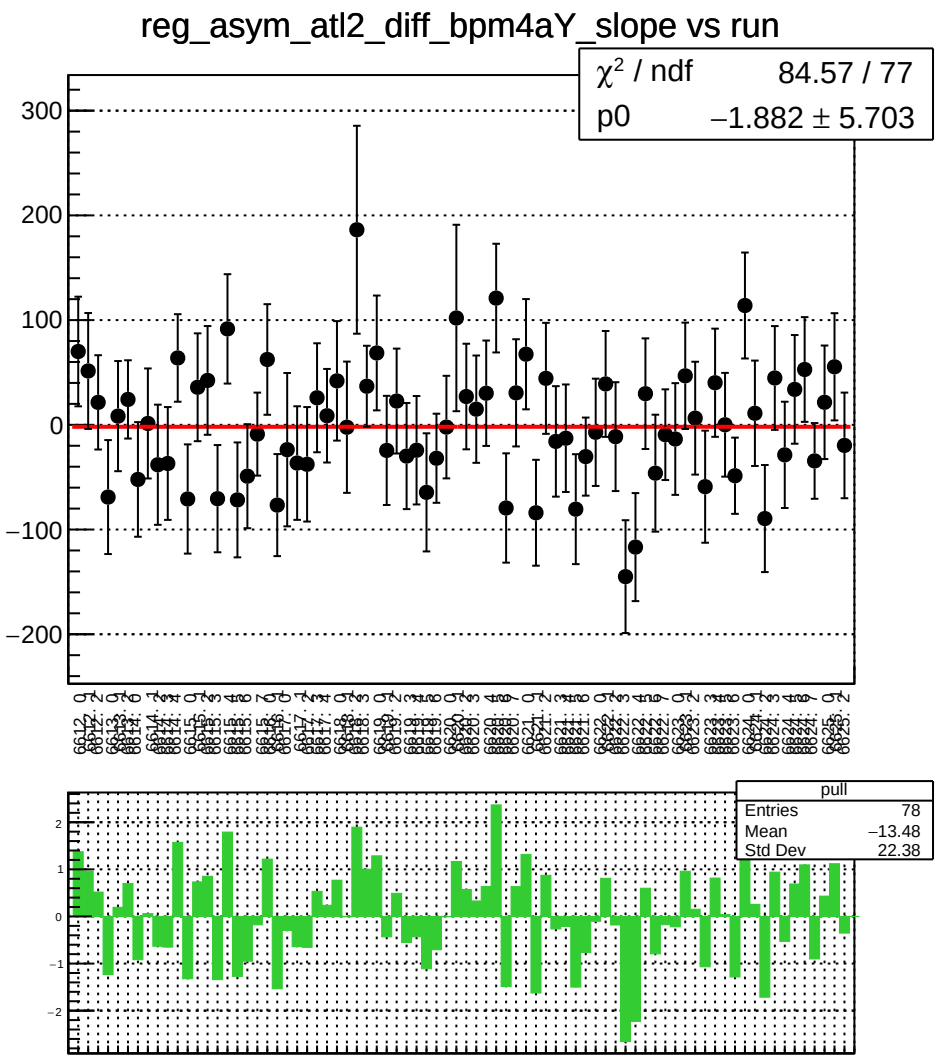

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 101.7 / 77
p0 0.6318 ± 2.951
pull
Entries 78
Mean −123.6
Std Dev 159.3

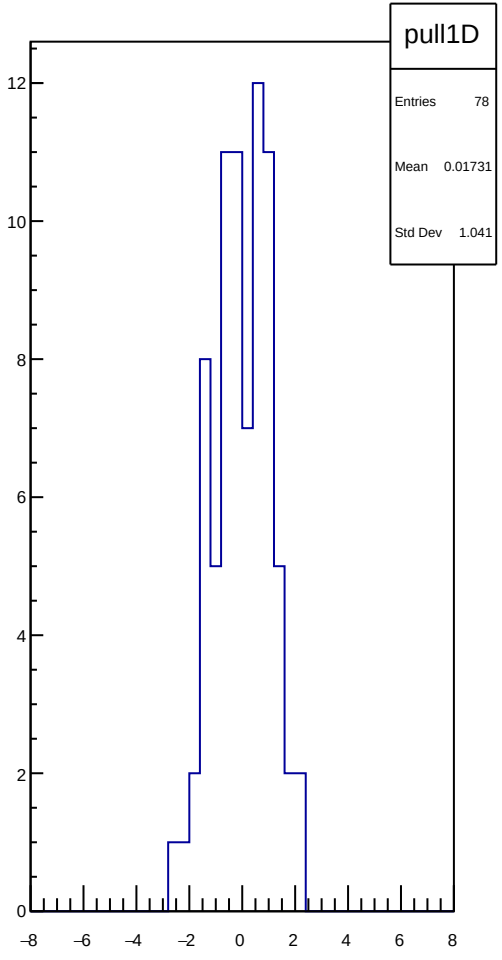

pull1D
Entries 78
Mean 0.03008
Std Dev 1.141

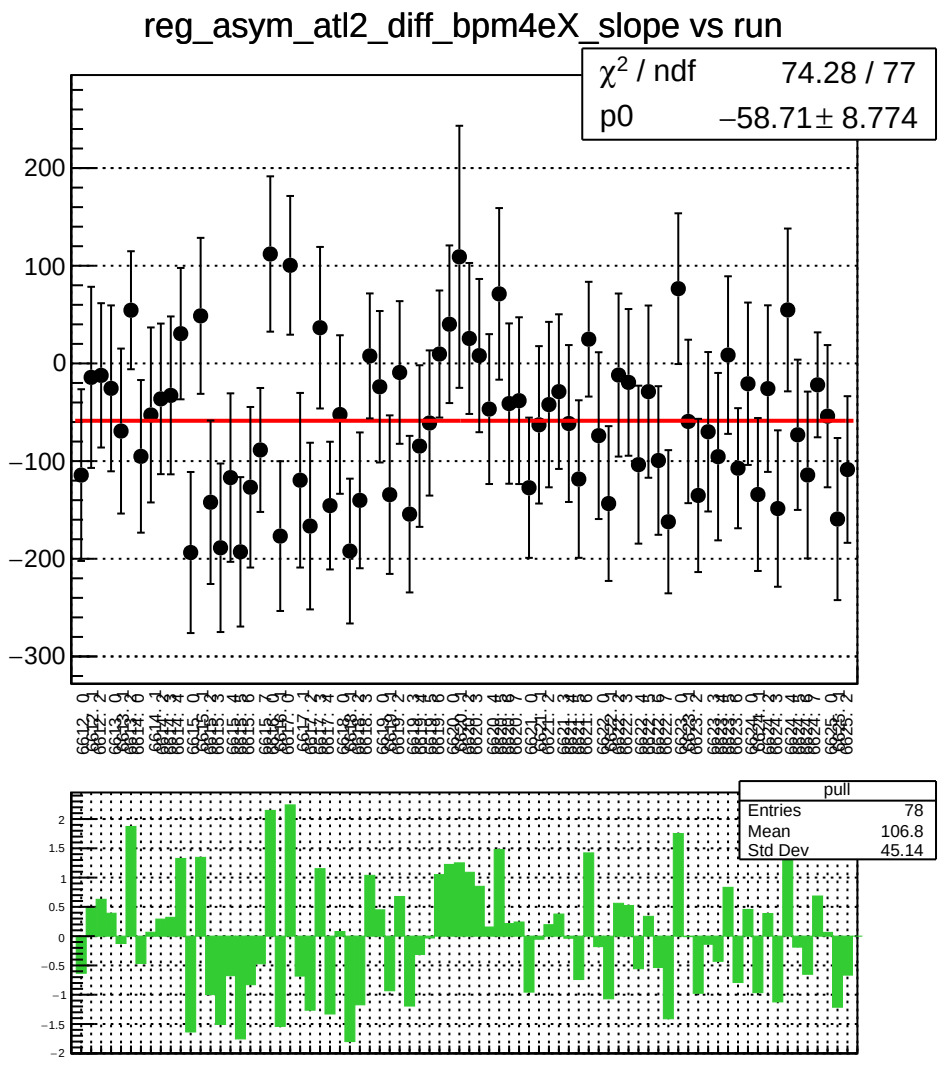

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 83.98 / 77
p0 9.049 ± 0.1526
pull
Entries 78
Mean 90.77
Std Dev 43.6
pull1D
Entries 78
Mean −0.005387
Std Dev 1.038

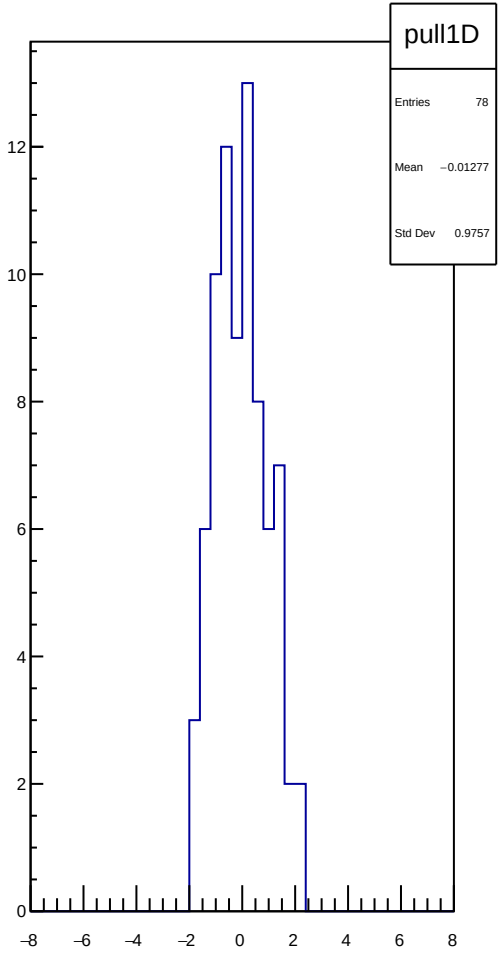

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 72.6 / 77
p0 −41.26 ± 8.225
200
100
0
−100
−200
−300
pull
Entries 78
Mean 133.9
Std Dev 77.76
1.5
1
0.5
0
−0.5
−1
−1.5
−2

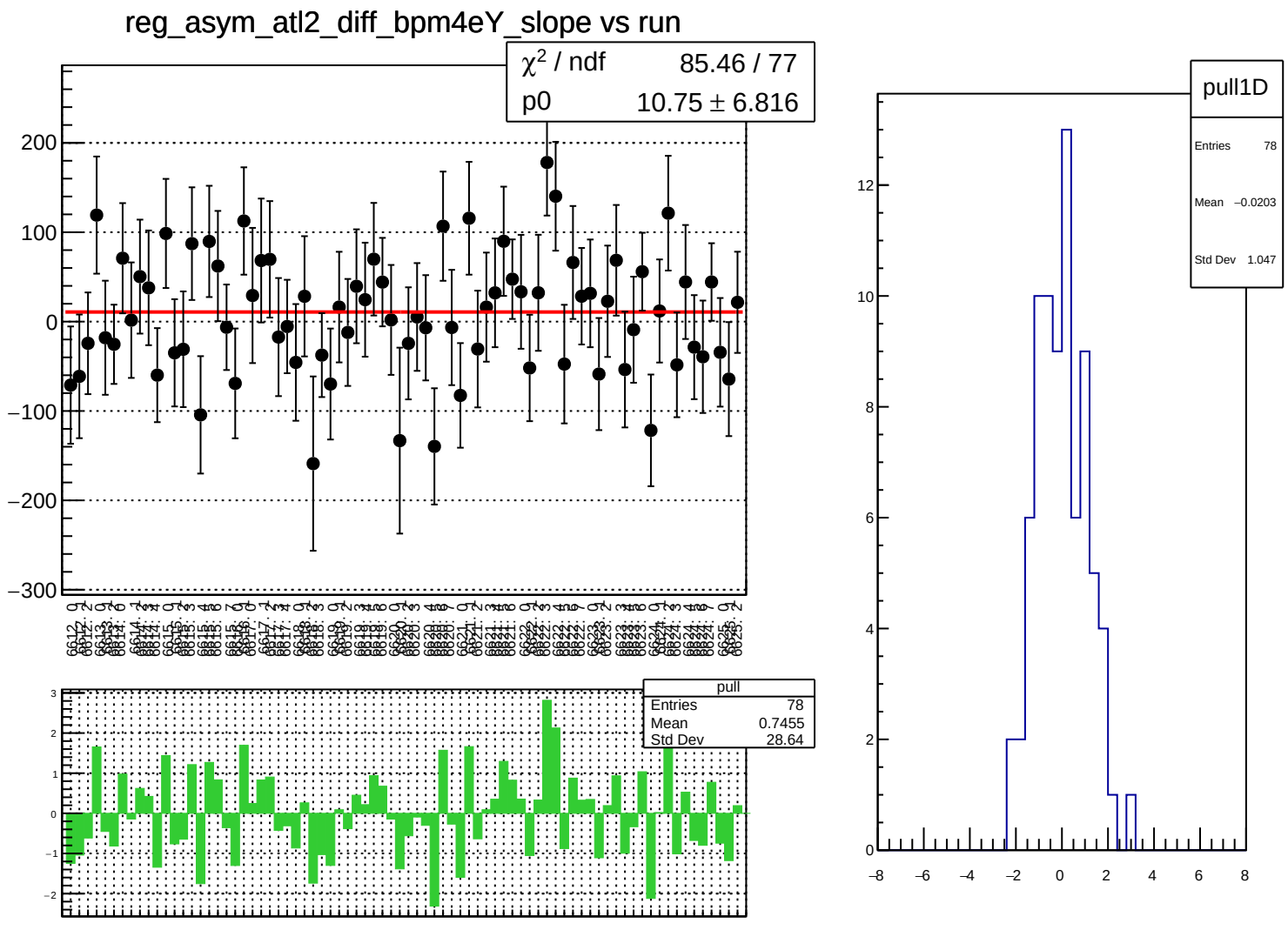

pull1D
Entries 78
Mean 0.01078
Std Dev 0.9647
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

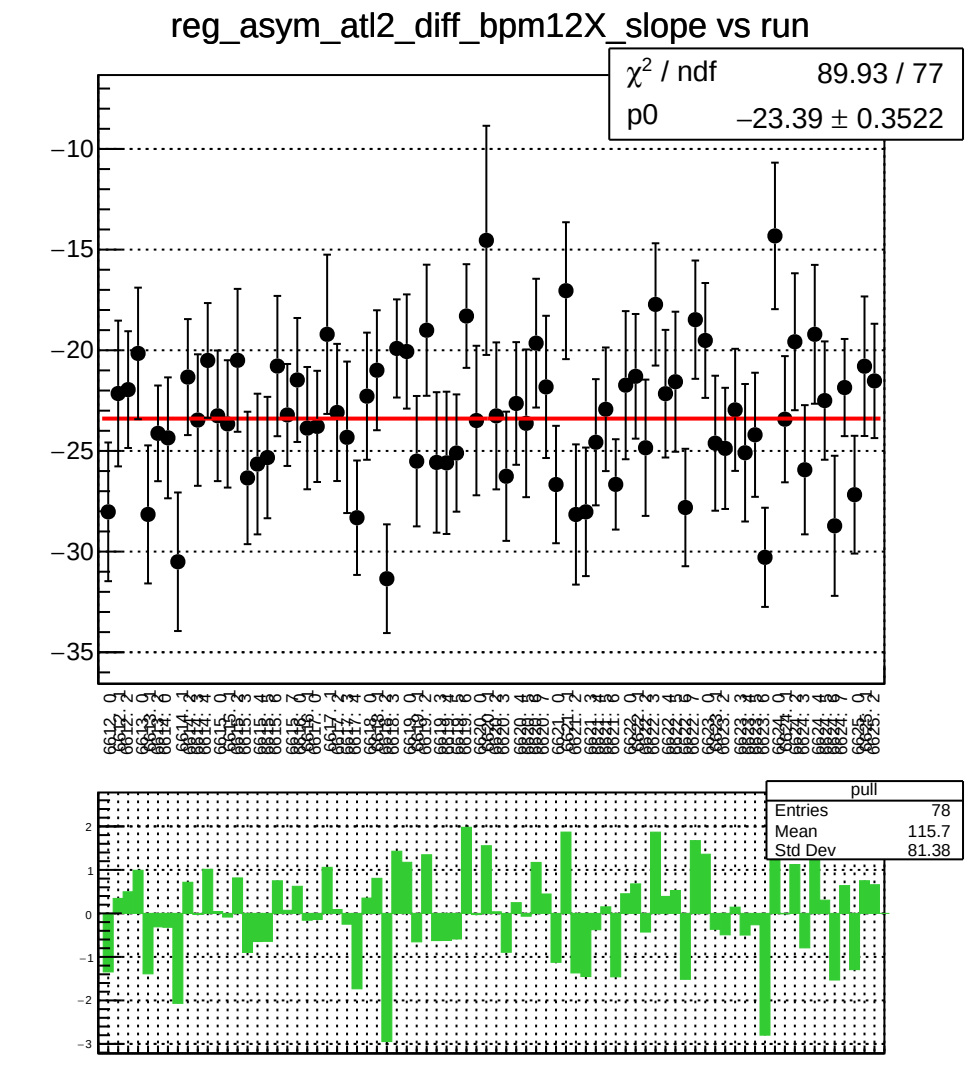

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 84.57 / 77
p0 −1.882 ± 5.703
pull
Entries 78
Mean −13.48
Std Dev 22.38

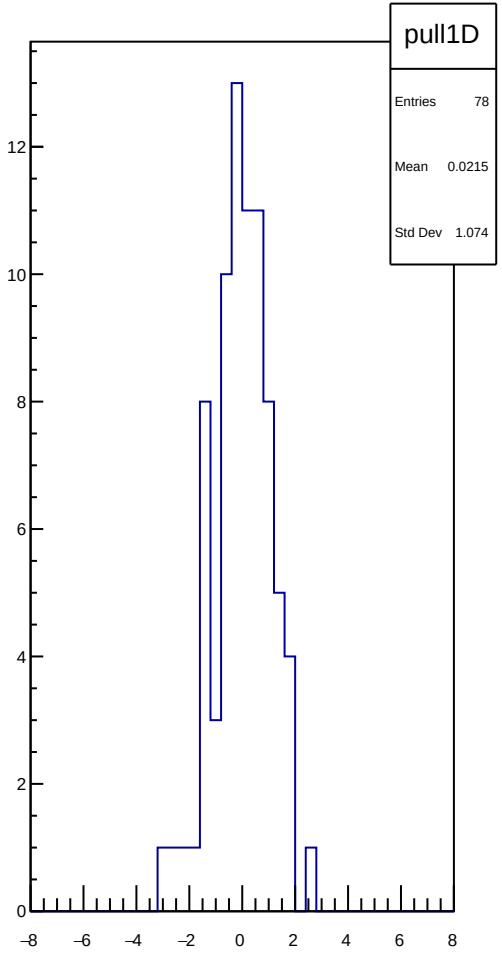

pull1D
Entries 78
Mean 0.01731
Std Dev 1.041

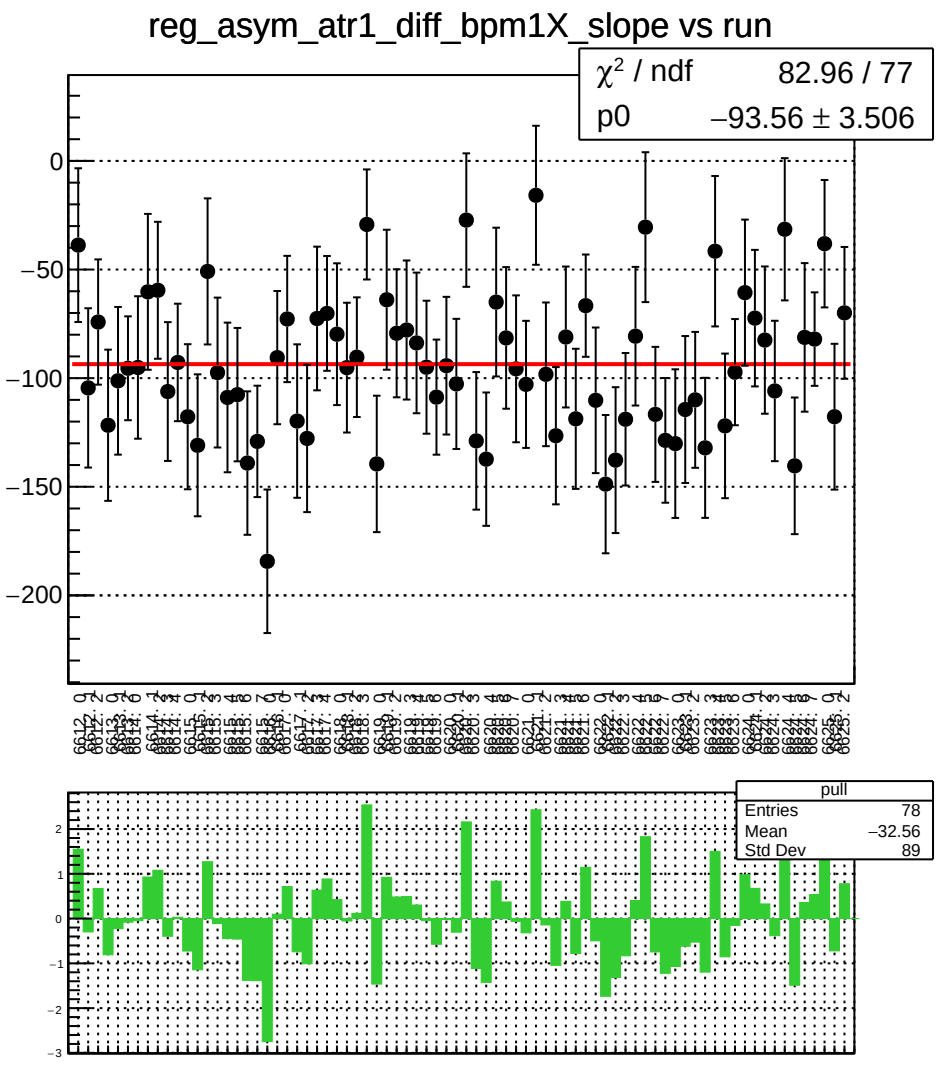

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 74.28 / 77
p0 −58.71 ± 8.774
pull
Entries 78
Mean 106.8
Std Dev 45.14

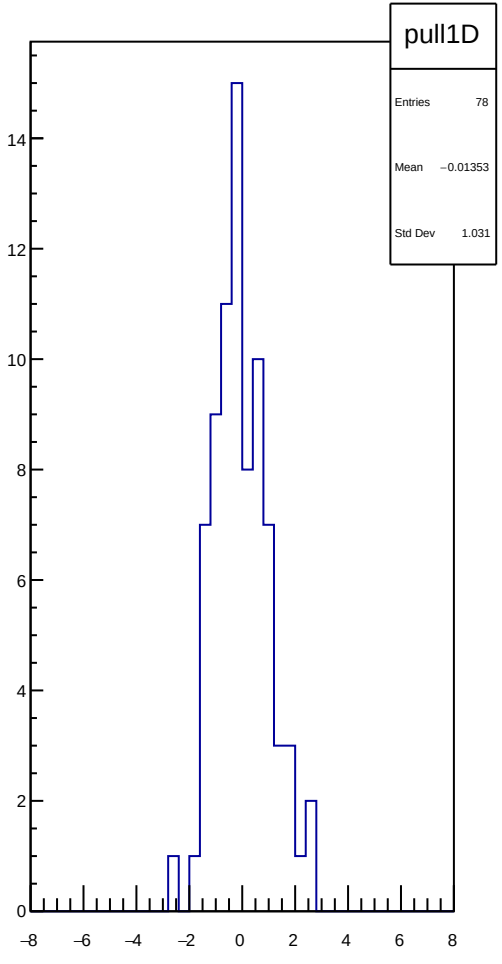

pull1D
Entries 78
Mean −0.01277
Std Dev 0.9757

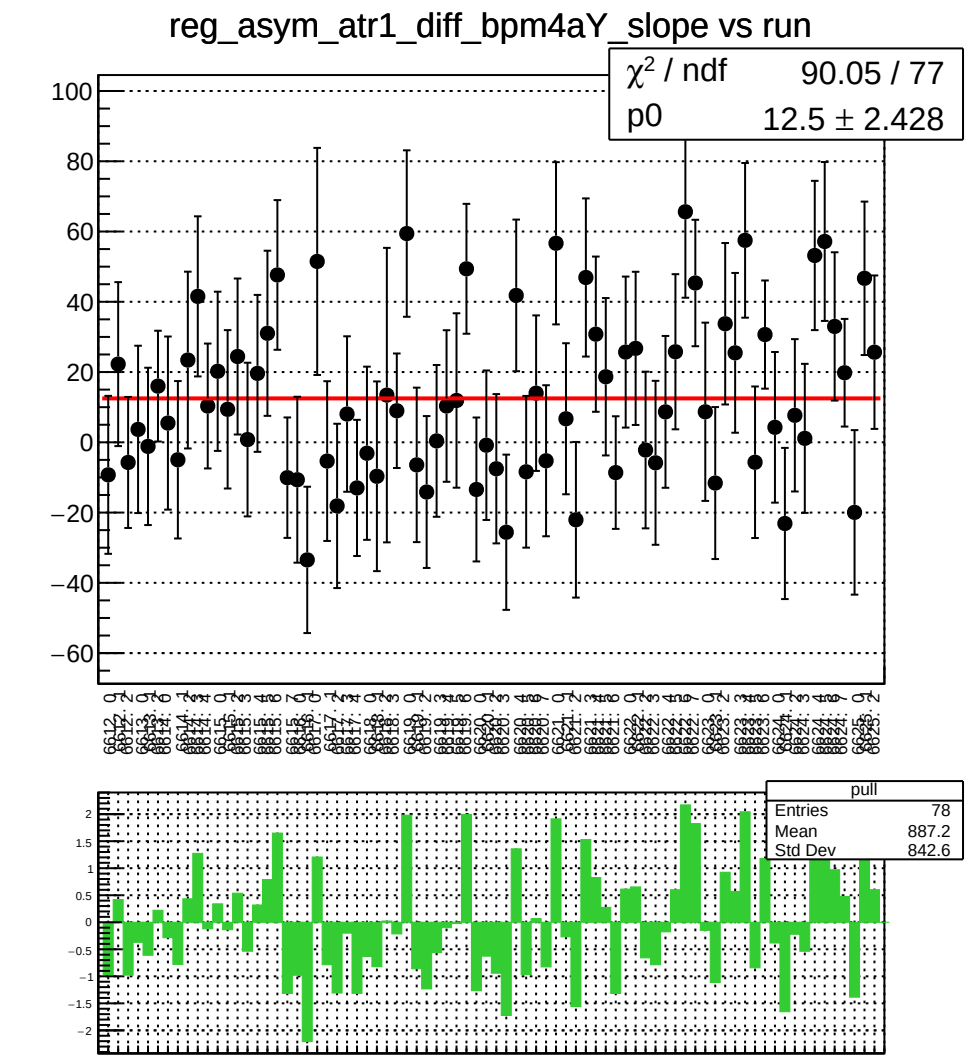

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 85.46 / 77
p0 10.75 ± 6.816
pull
Entries 78
Mean 0.7455
Std Dev 28.64
pull1D
Entries 78
Mean −0.0203
Std Dev 1.047

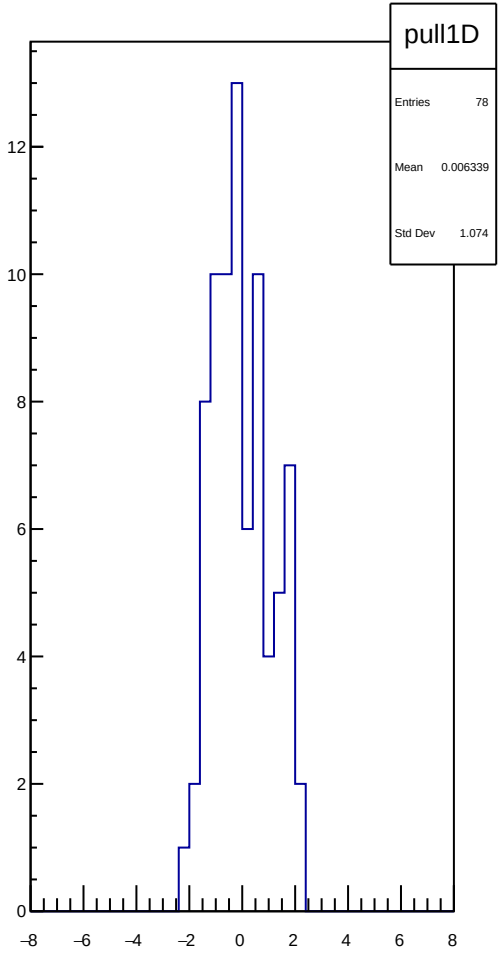

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 89.93 / 77
p0 −23.39 ± 0.3522
pull
Entries 78
Mean 115.7
Std Dev 81.38

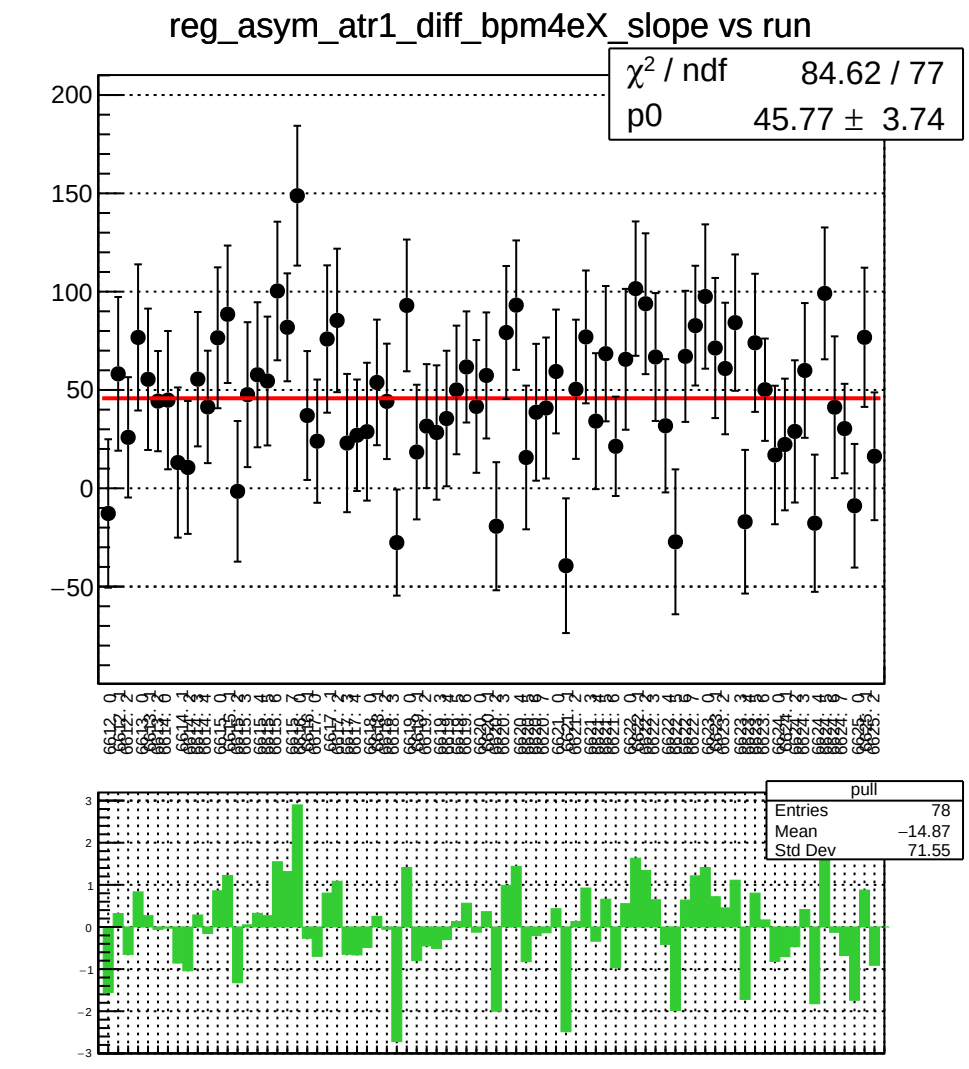

pull1D
Entries 78
Mean 0.0215
Std Dev 1.074

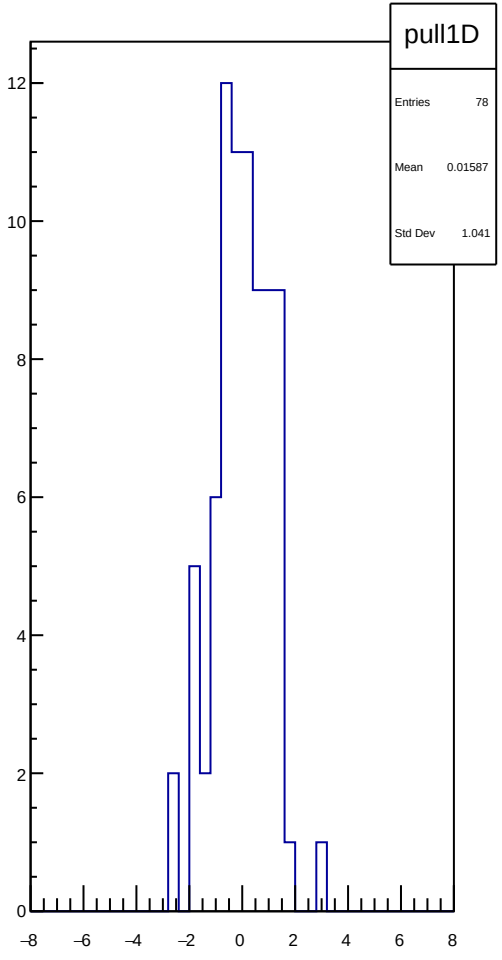

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 82.96 / 77
p0 −93.56 ± 3.506
pull
Entries 78
Mean −32.56
Std Dev 89

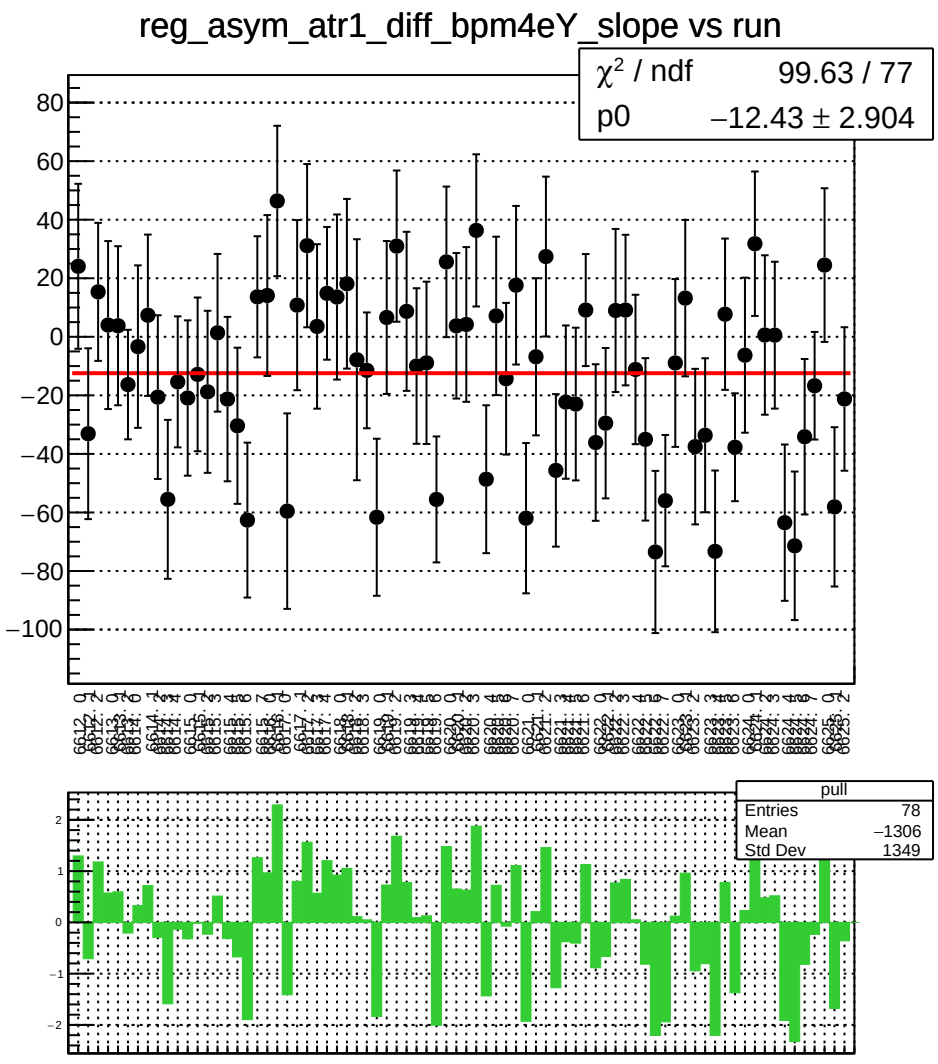

pull1D
Entries 78
Mean −0.01353
Std Dev 1.031

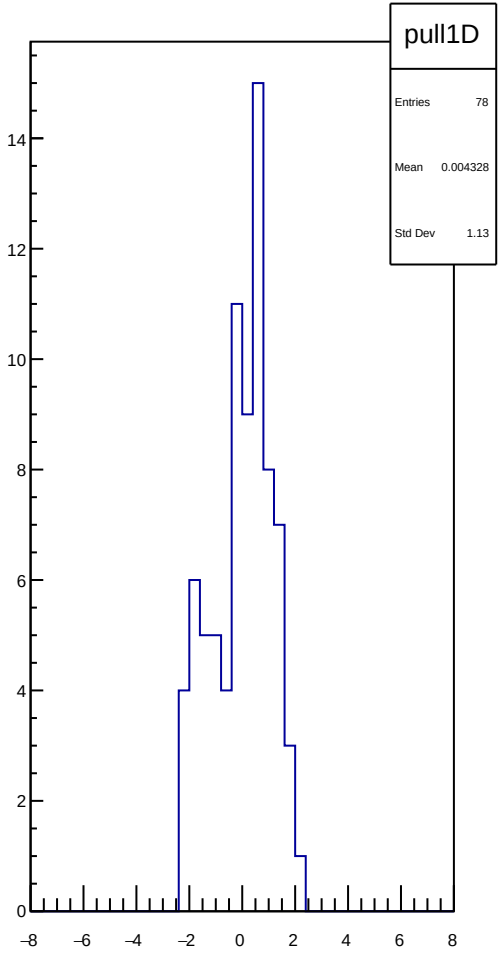

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 90.05 / 77
p0 12.5 ± 2.428
pull
Entries 78
Mean 887.2
Std Dev 842.6

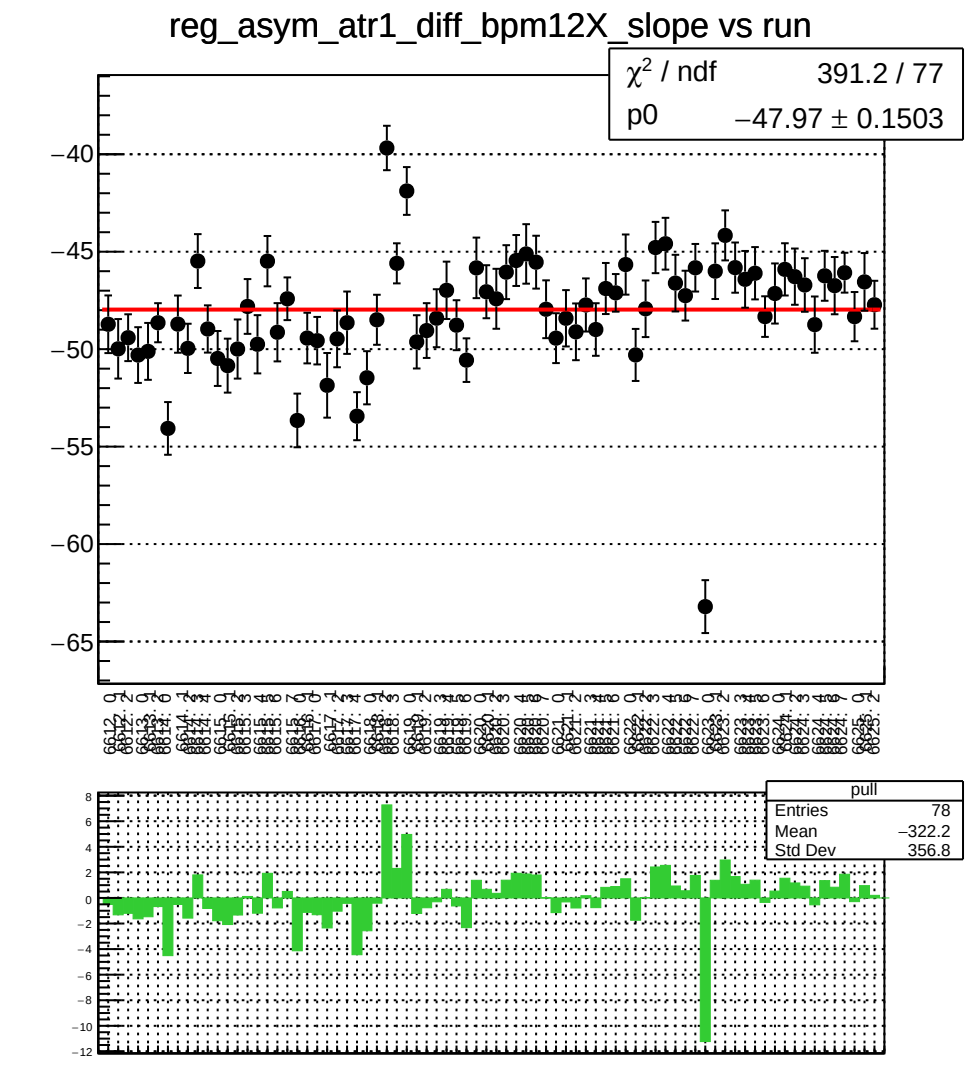

pull1D
Entries 78
Mean 0.006339
Std Dev 1.074

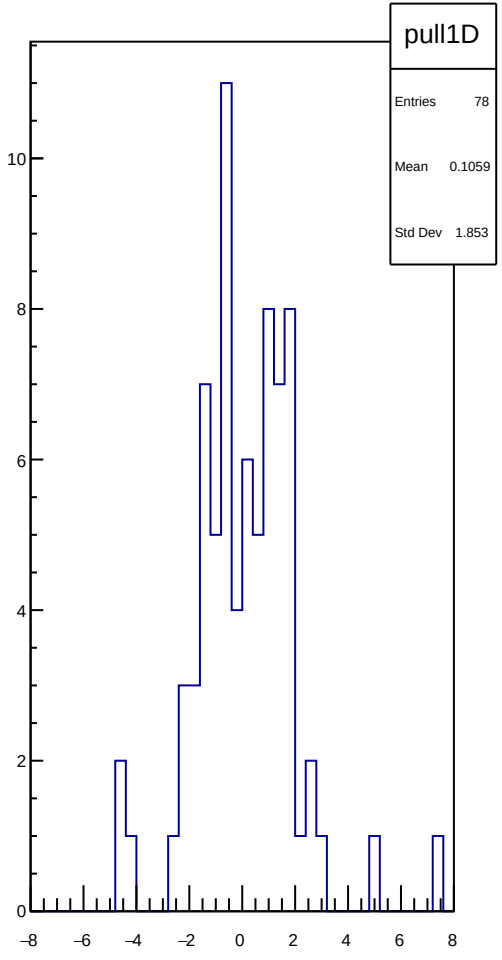

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 84.62 / 77
p0 45.77 ± 3.74
pull
Entries 78
Mean −14.87
Std Dev 71.55

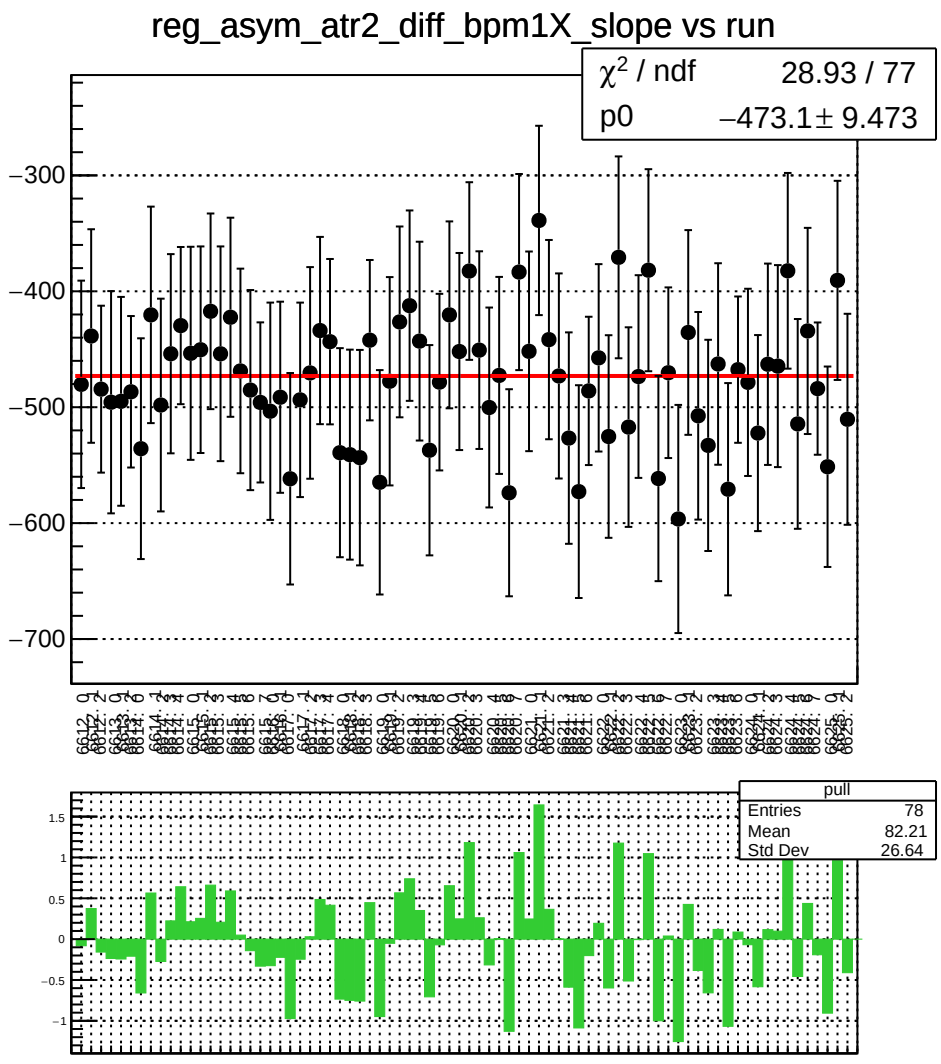

pull1D
Entries 78
Mean 0.01587
Std Dev 1.041

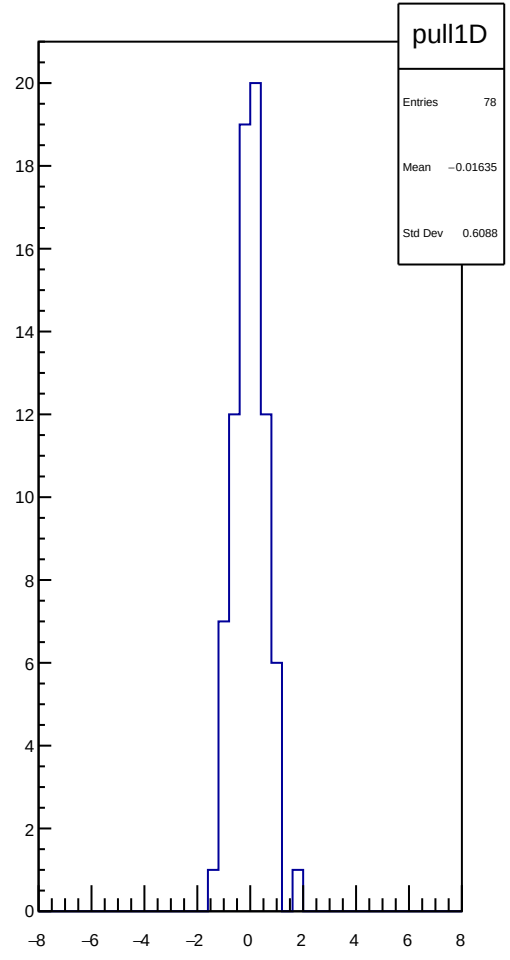

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 99.63 / 77
p0 −12.43 ± 2.904
pull
Entries 78
Mean −1306
Std Dev 1349

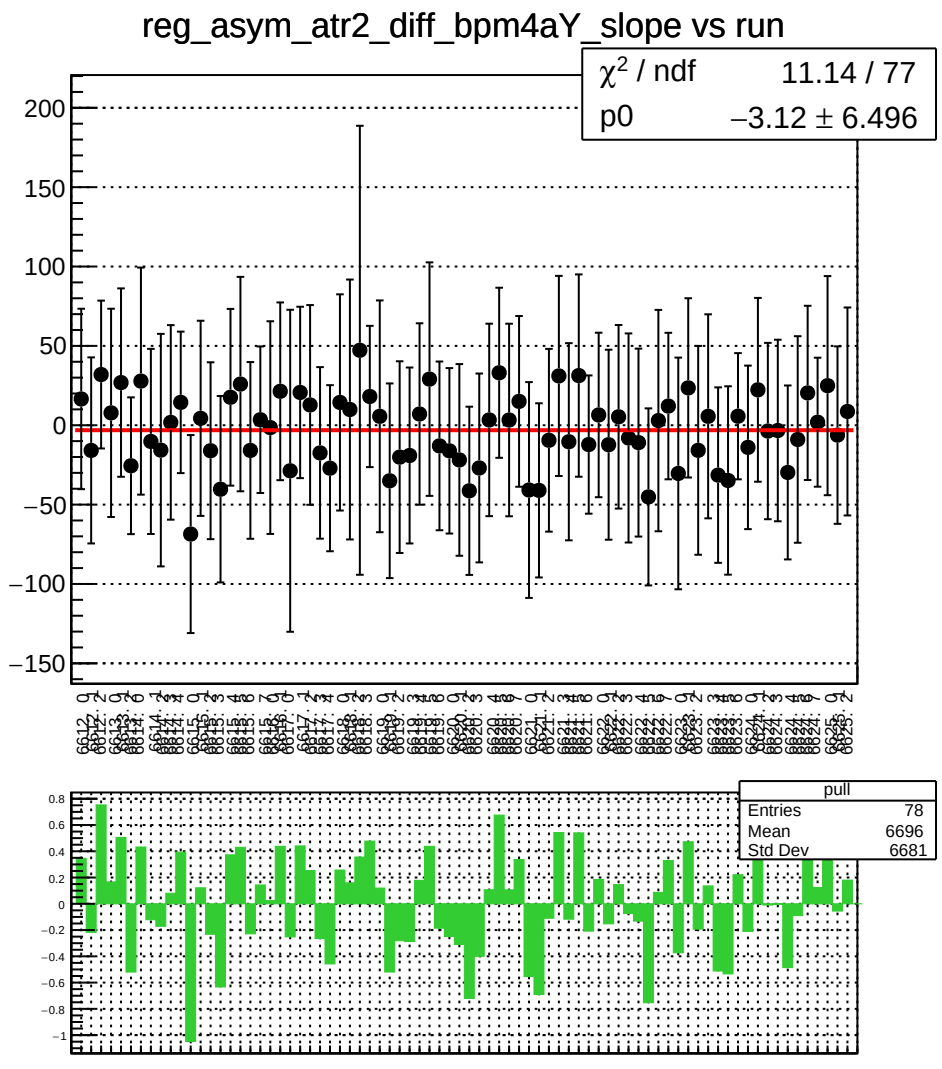

pull1D
Entries 78
Mean 0.004328
Std Dev 1.13

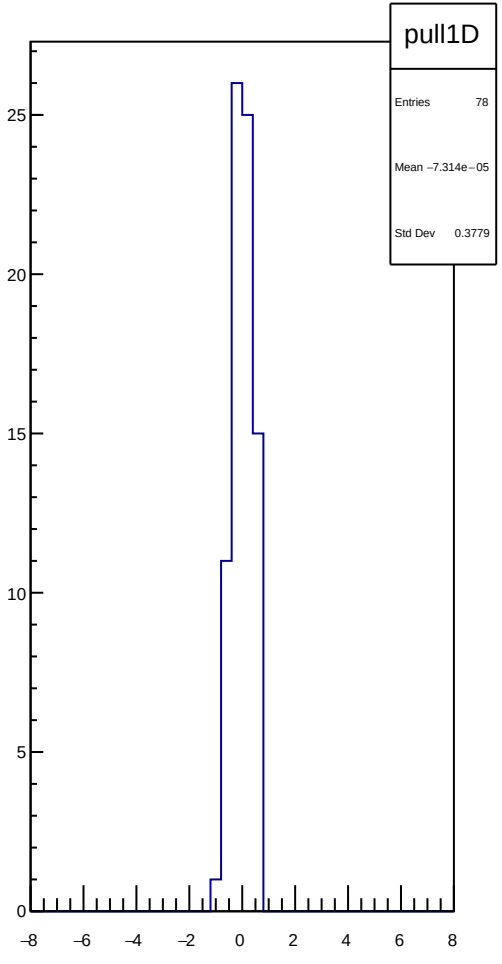

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 391.2 / 77
p0 −47.97 ± 0.1503
pull
Entries 78
Mean −322.2
Std Dev 356.8

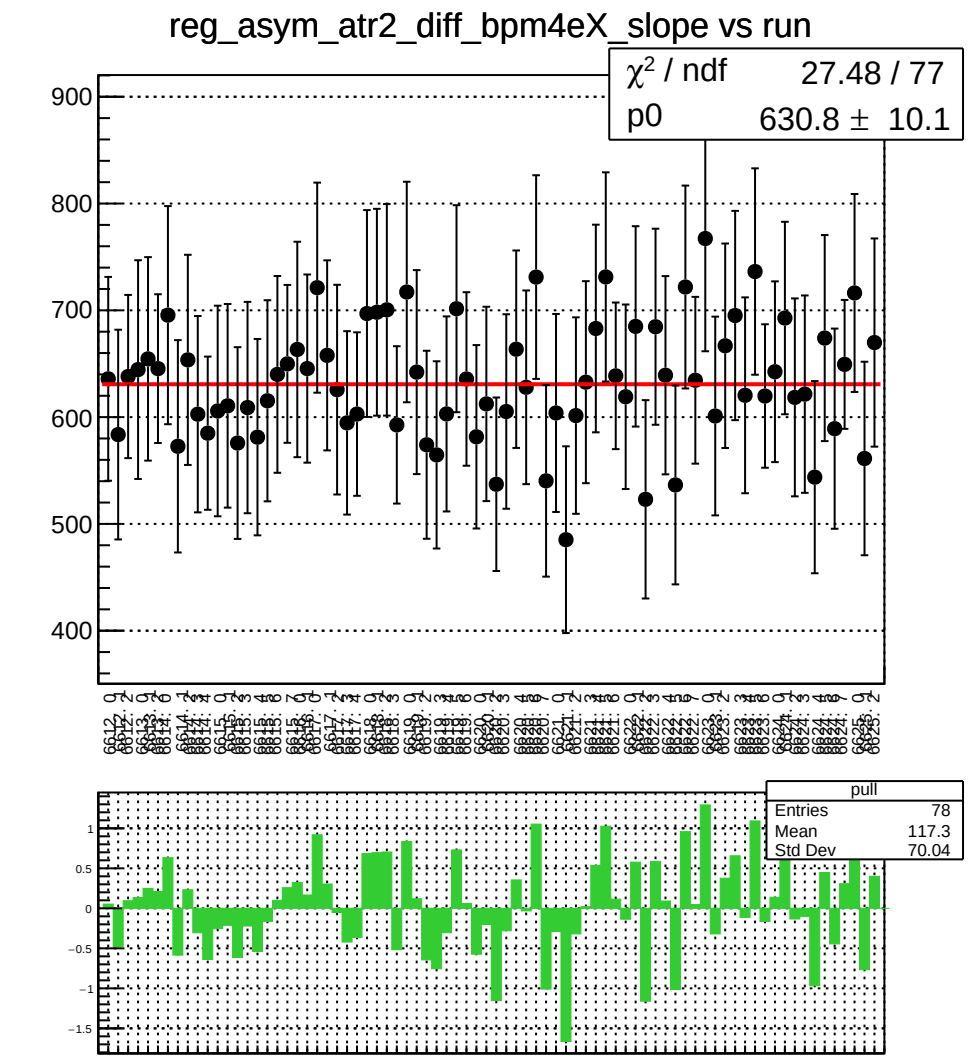

pull1D
Entries 78
Mean 0.1059
Std Dev 1.853

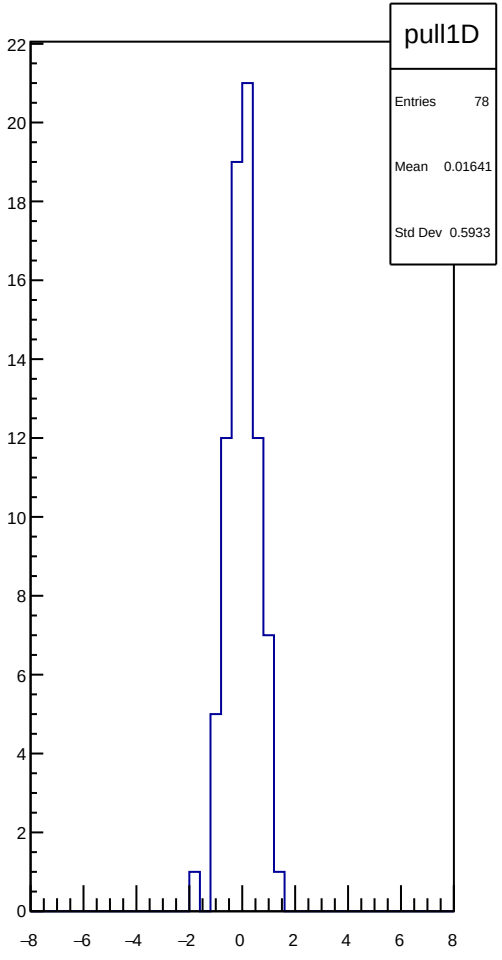

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 28.93 / 77
p0 −473.1± 9.473
−300
−400
−500
−600
−700
pull
Entries 78
Mean 82.21
Std Dev 26.64
1.5
1
0.5
0
−0.5
−1

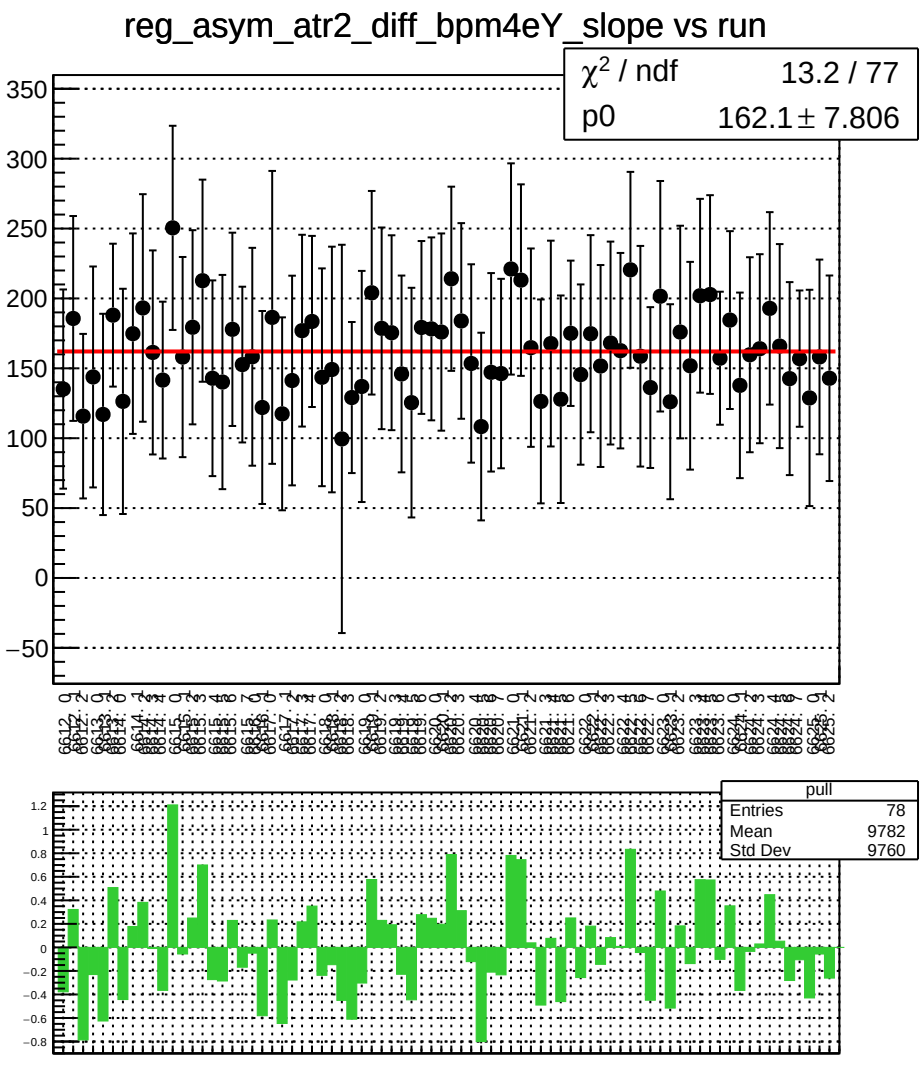

pull1D
Entries 78
Mean −0.01635
Std Dev 0.6088
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

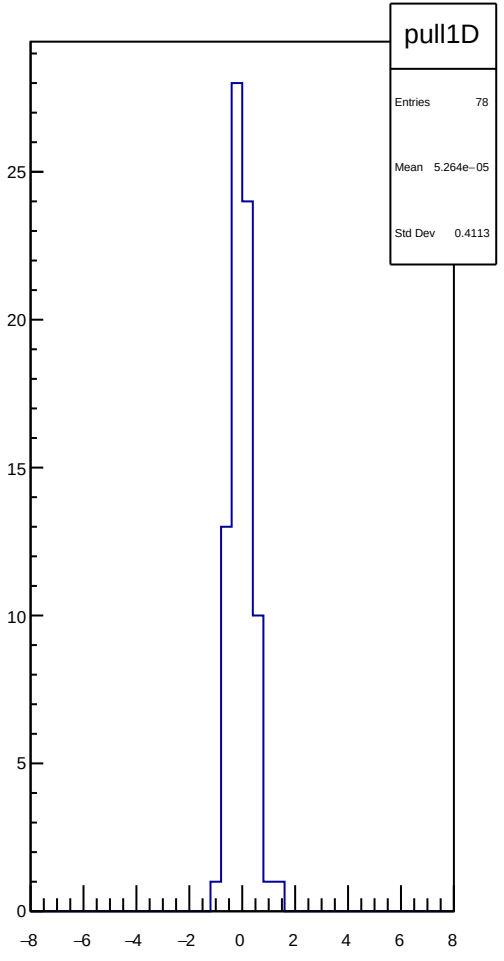

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 11.14 / 77
p0 −3.12 ± 6.496
pull
Entries 78
Mean 6696
Std Dev 6681

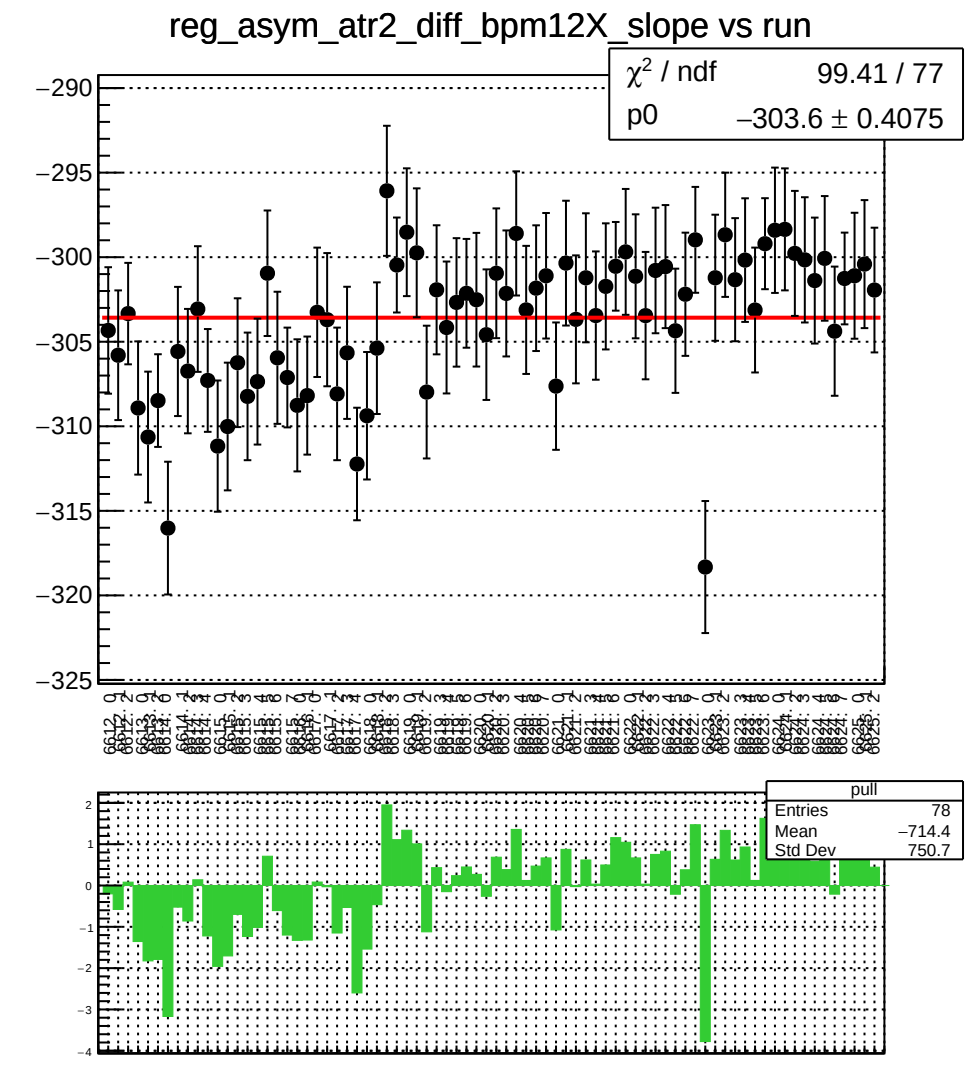

pull1D
Entries 78
Mean −7.314e−05
Std Dev 0.3779

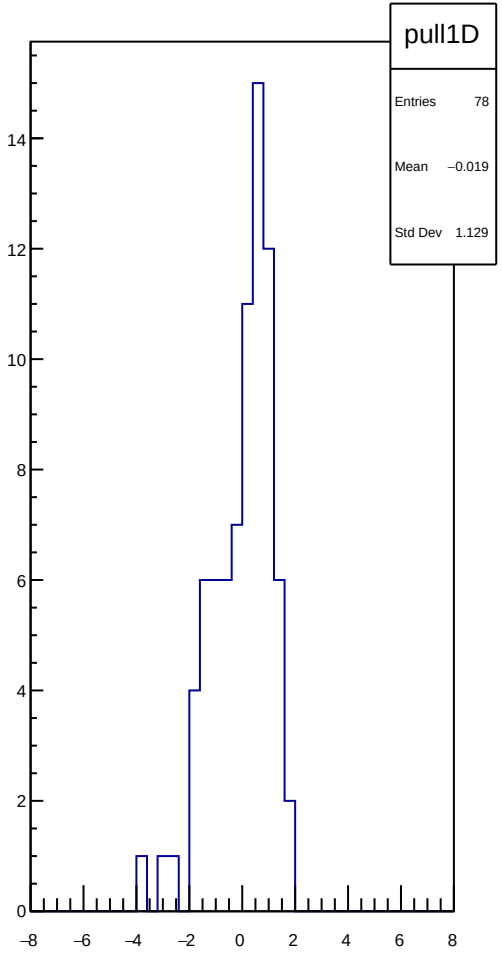

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 27.48 / 77
p0 630.8 ± 10.1
900
800
700
600
500
400
pull
Entries 78
Mean 117.3
Std Dev 70.04
1
0.5
0
−0.5
−1
−1.5

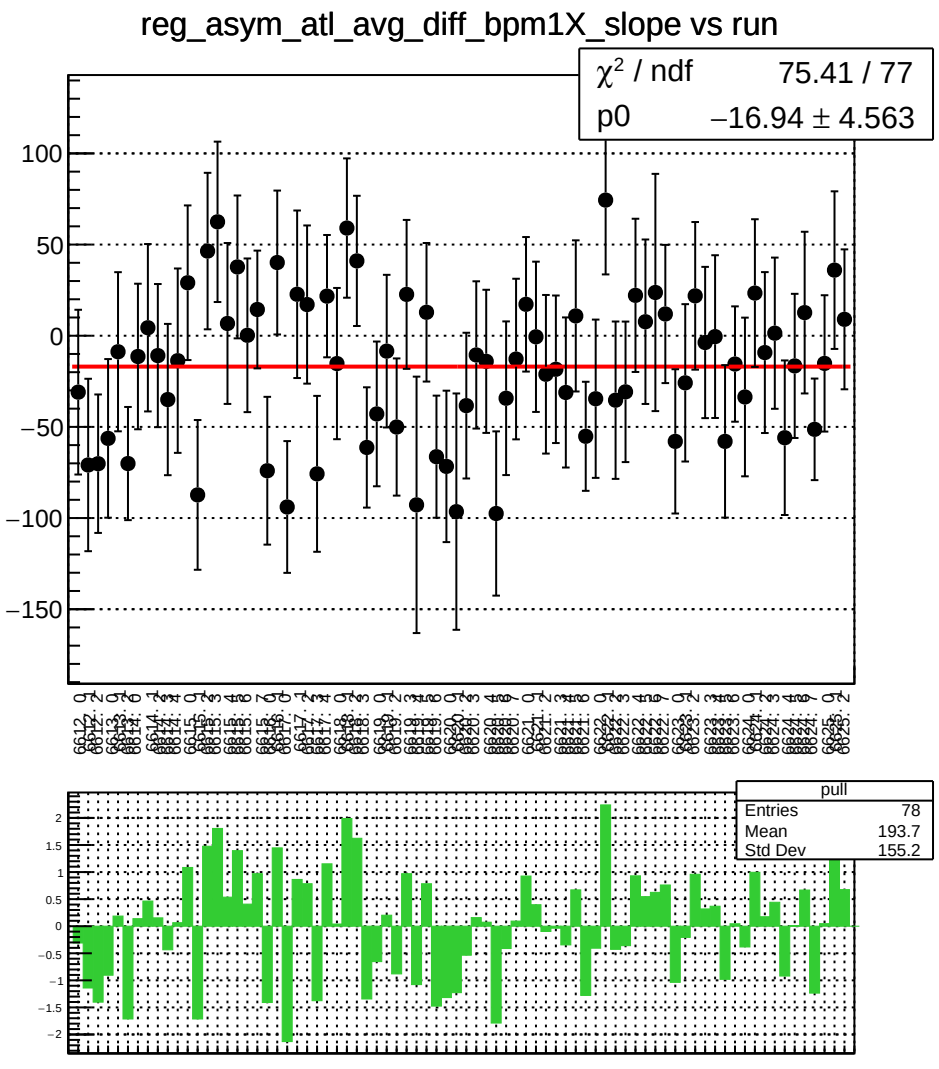

pull1D
Entries 78
Mean 0.01641
Std Dev 0.5933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

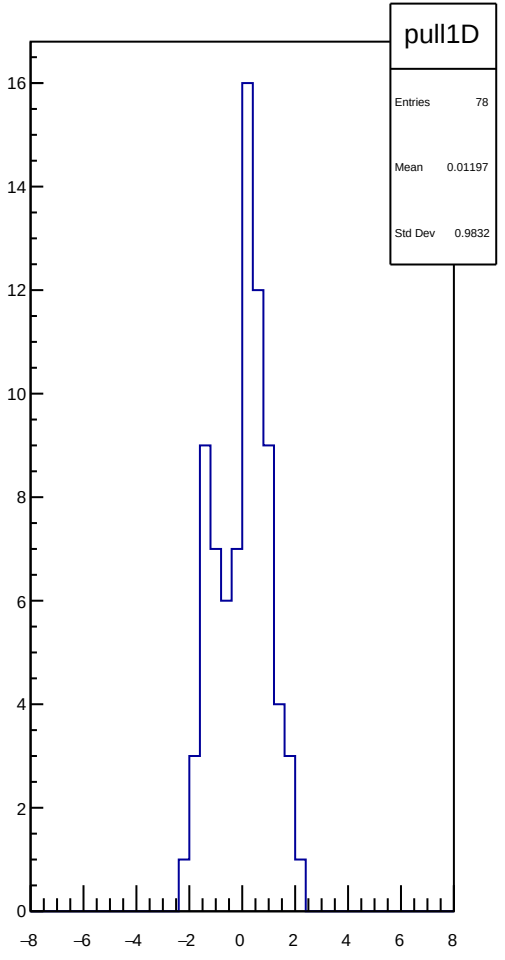

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 13.2 / 77
p0 162.1 ± 7.806
pull
Entries 78
Mean 9782
Std Dev 9760

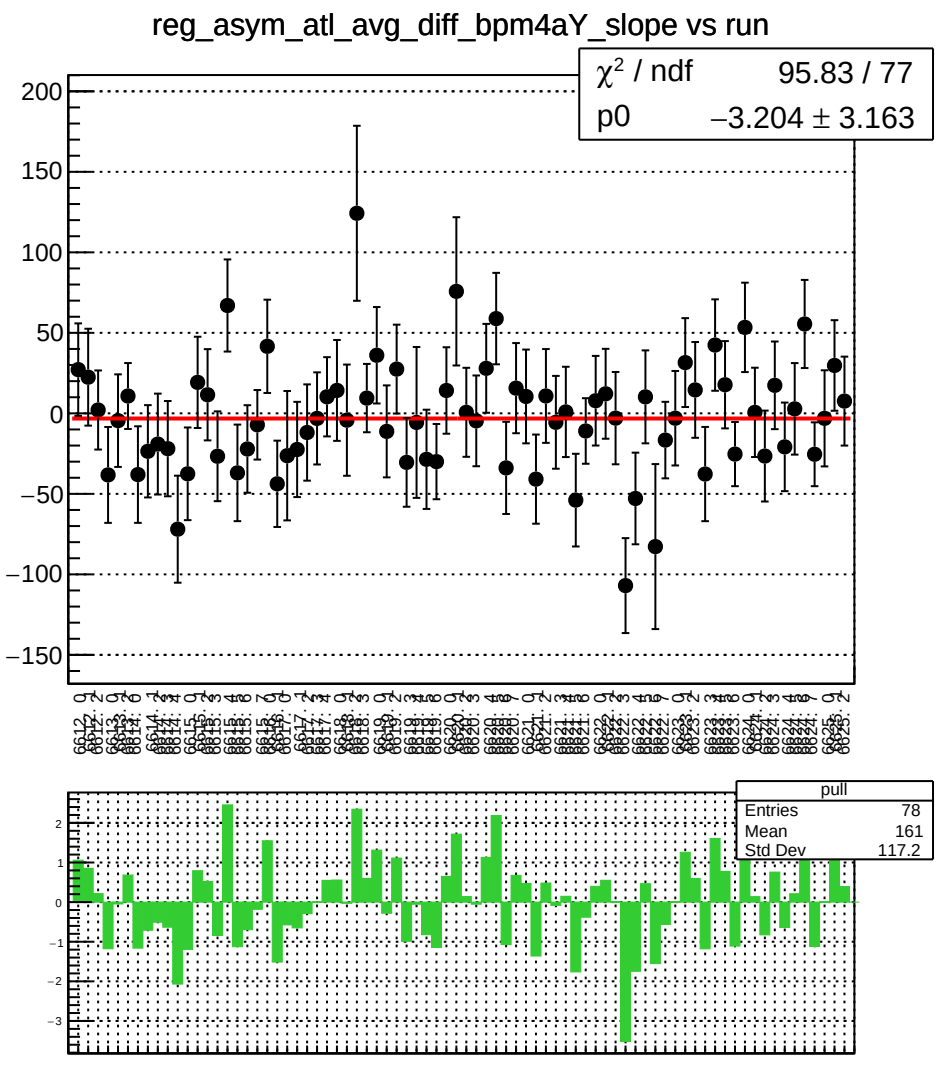

pull1D
Entries 78
Mean 5.264e−05
Std Dev 0.4113

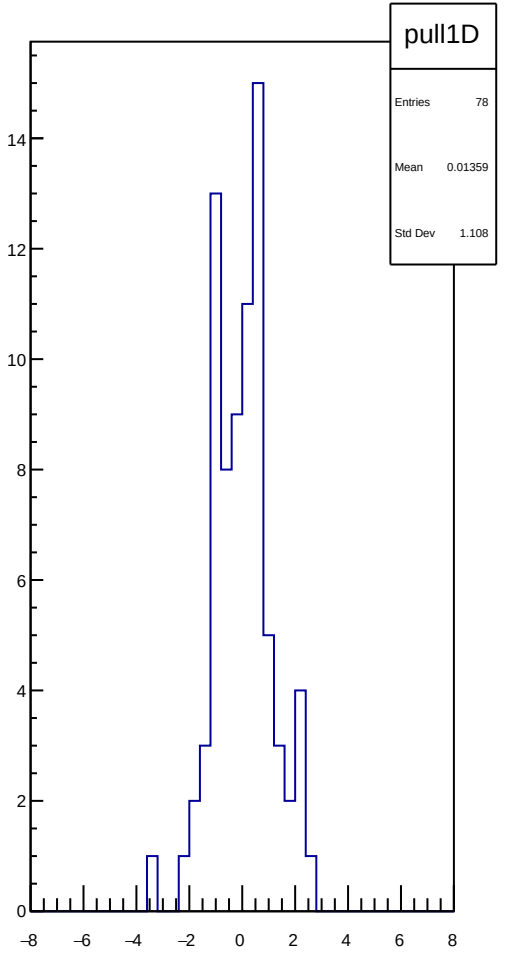

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 99.41 / 77
p0 −303.6 ± 0.4075
pull
Entries 78
Mean −714.4
Std Dev 750.7

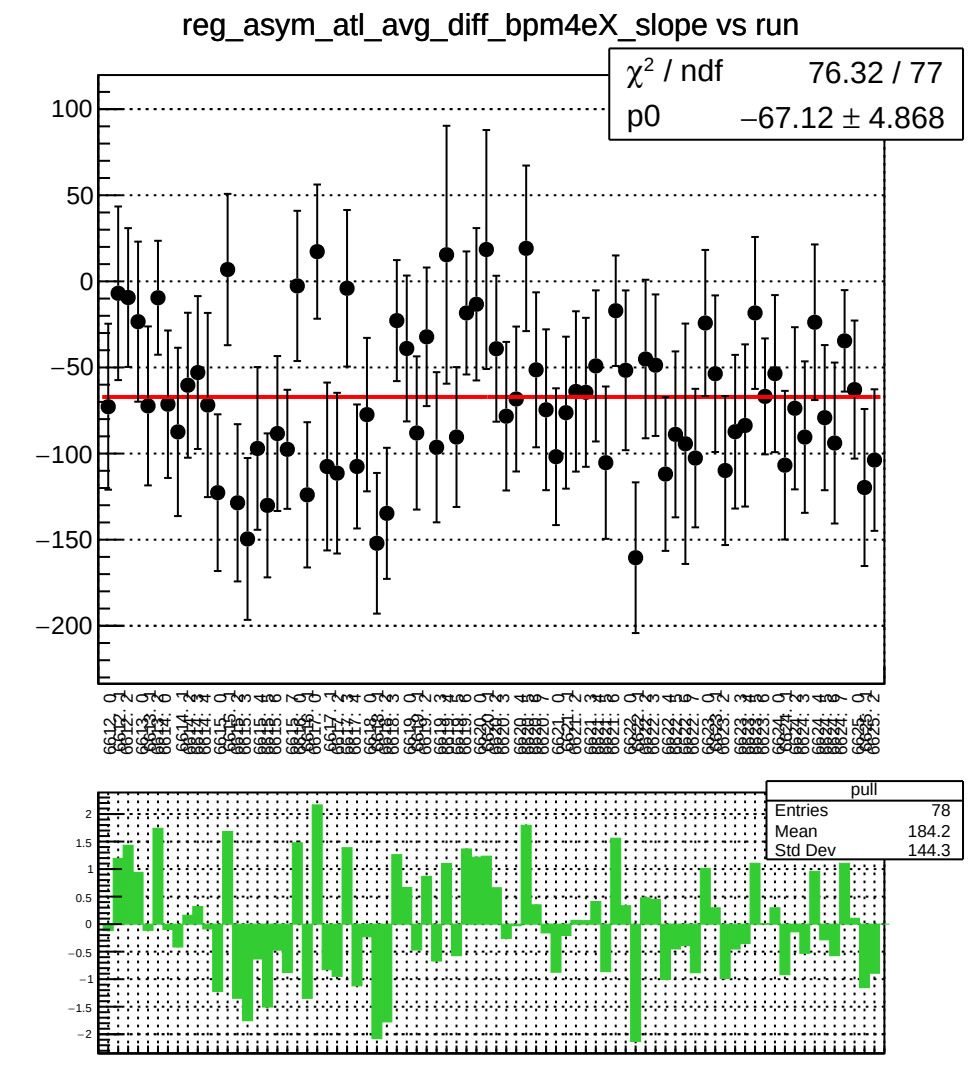

pull1D
Entries 78
Mean −0.019
Std Dev 1.129

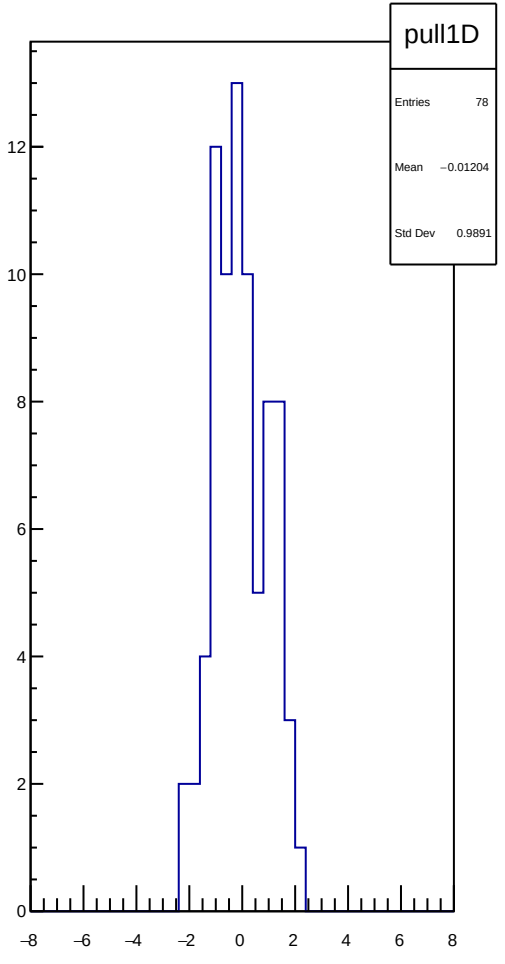

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 75.41 / 77
p0 −16.94 ± 4.563
pull
Entries 78
Mean 193.7
Std Dev 155.2

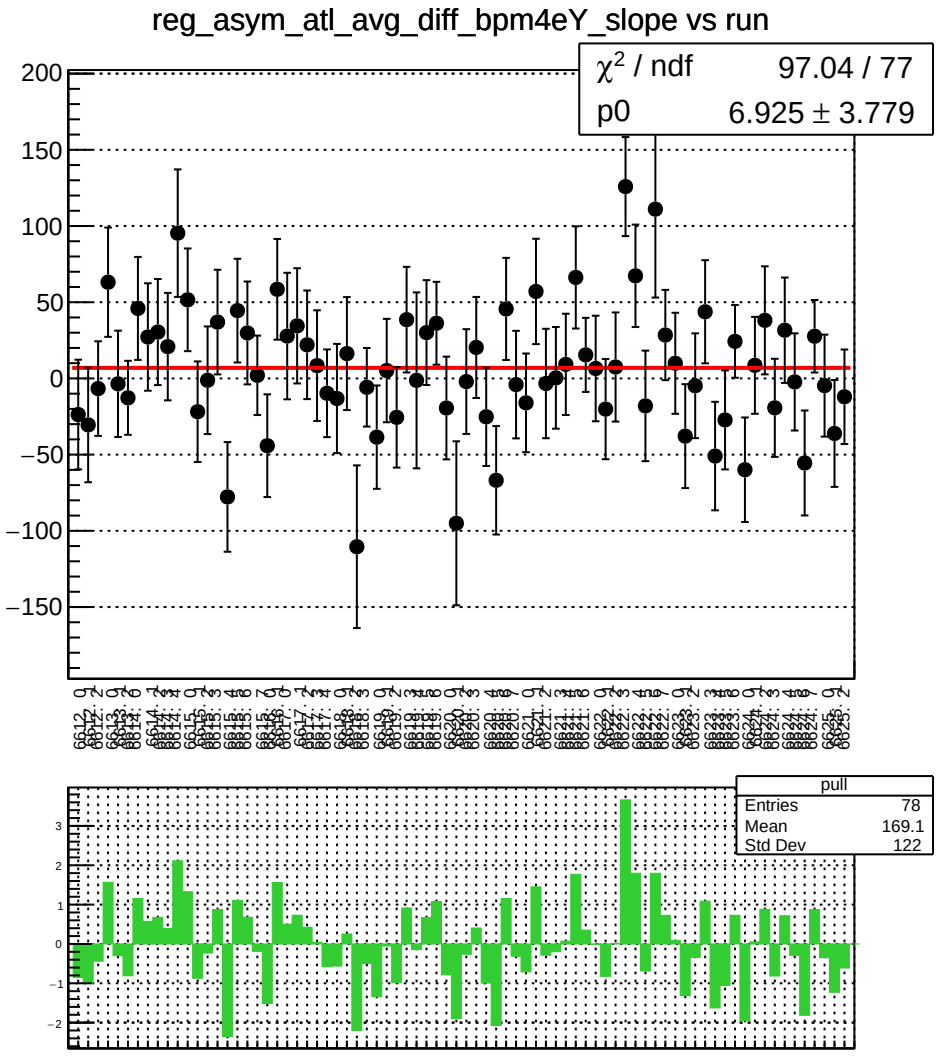

pull1D
Entries 78
Mean 0.01197
Std Dev 0.9832

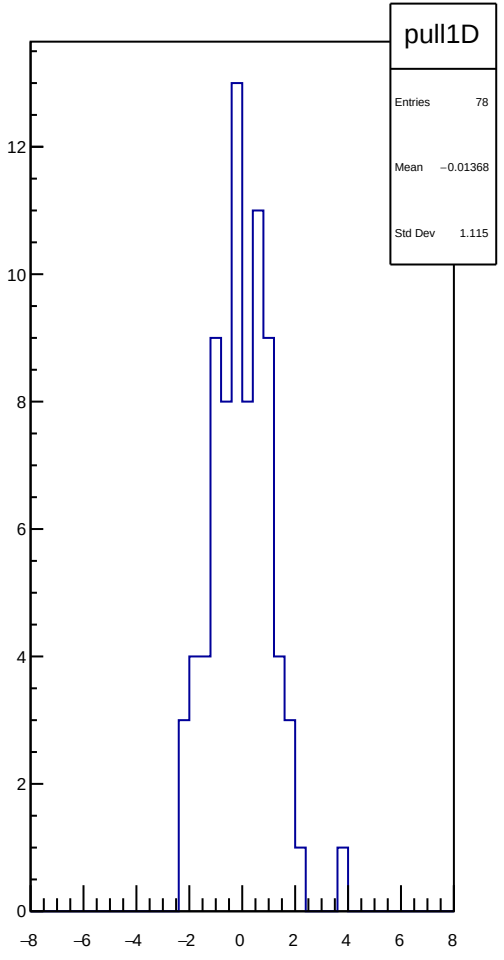

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 95.83 / 77
p0 −3.204 ± 3.163
pull
Entries 78
Mean 161
Std Dev 117.2

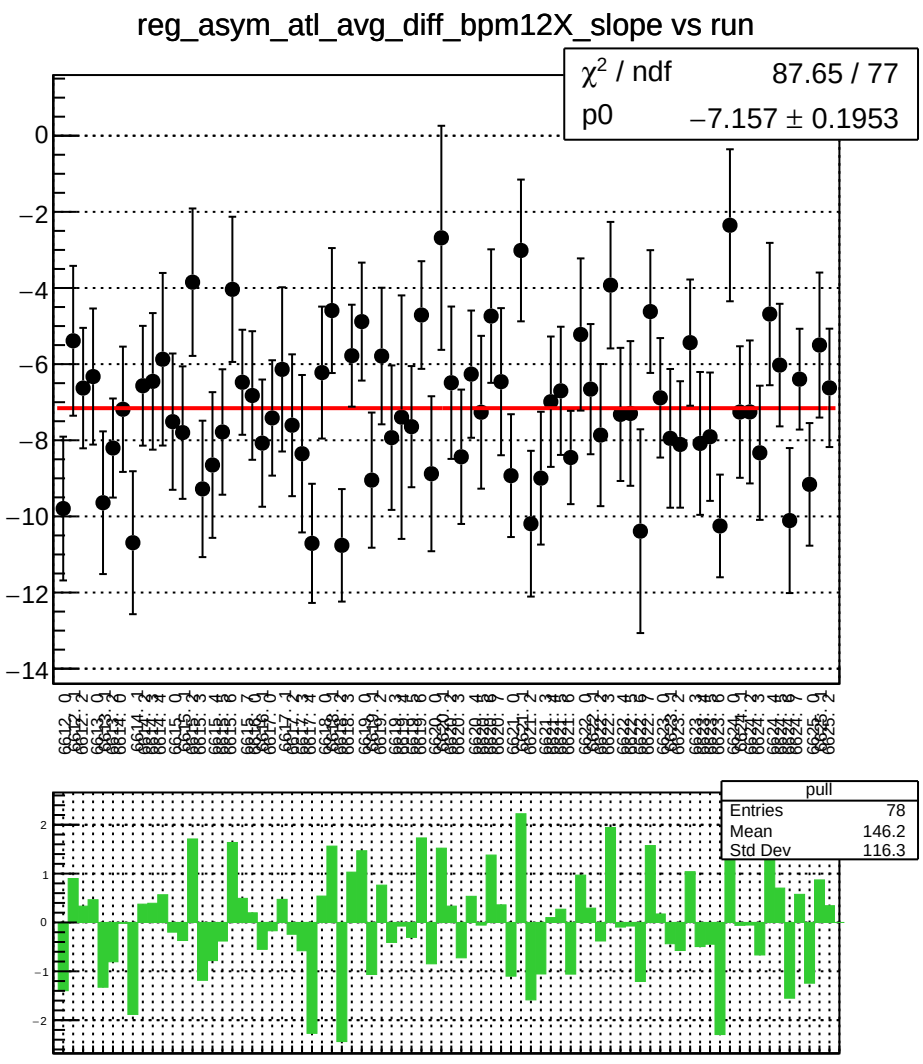

pull1D
Entries 78
Mean 0.01359
Std Dev 1.108

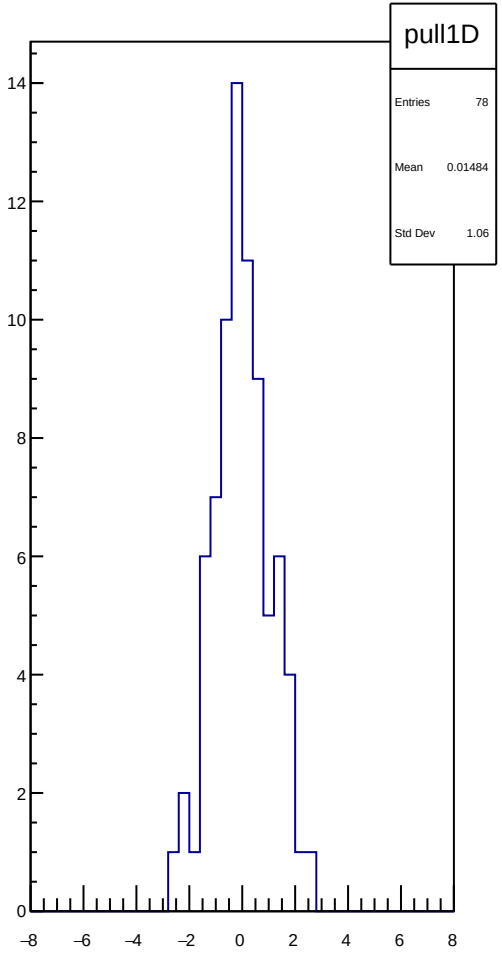

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.32 / 77
p0 −67.12 ± 4.868
pull
Entries 78
Mean 184.2
Std Dev 144.3

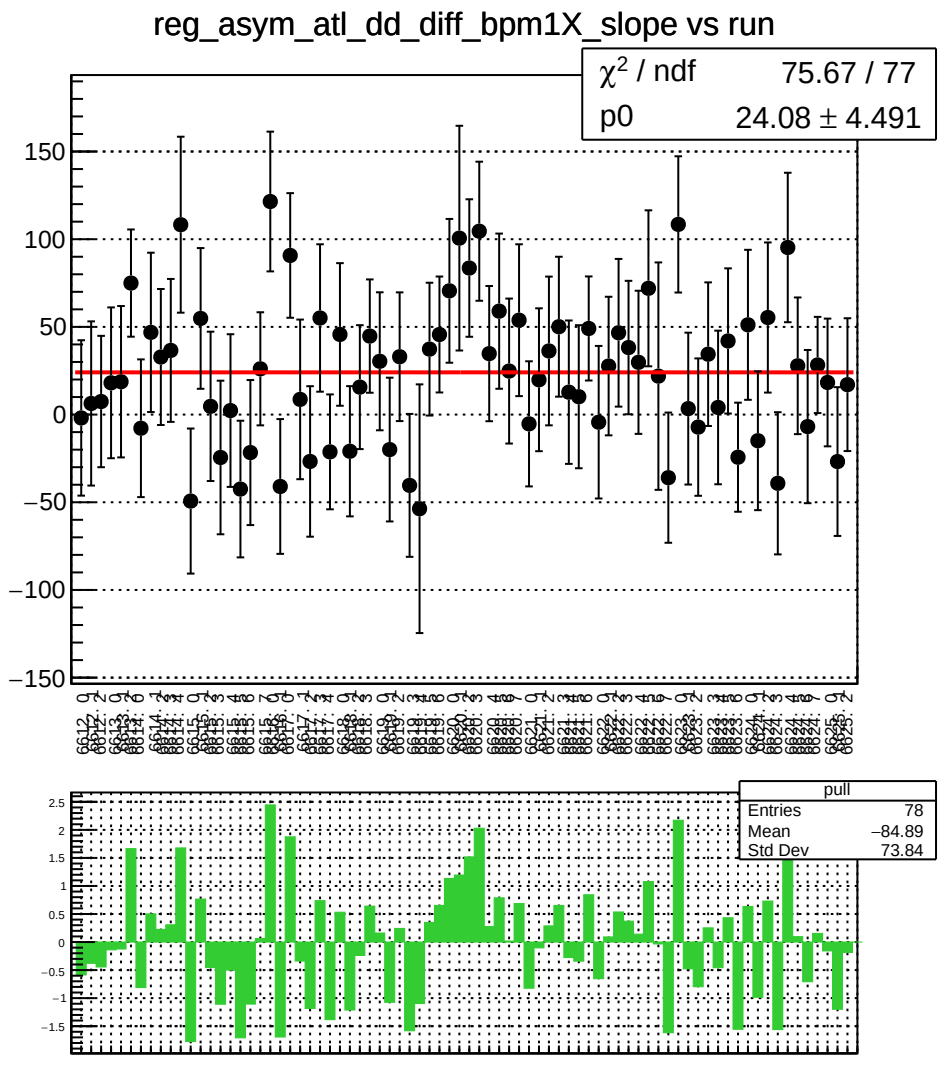

pull1D
Entries 78
Mean −0.01204
Std Dev 0.9891

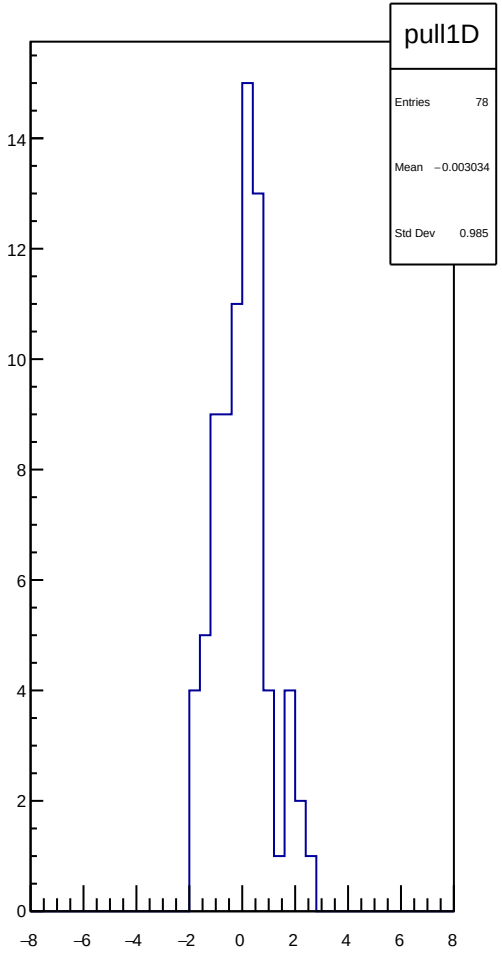

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 97.04 / 77
p0 6.925 ± 3.779
pull
Entries 78
Mean 169.1
Std Dev 122

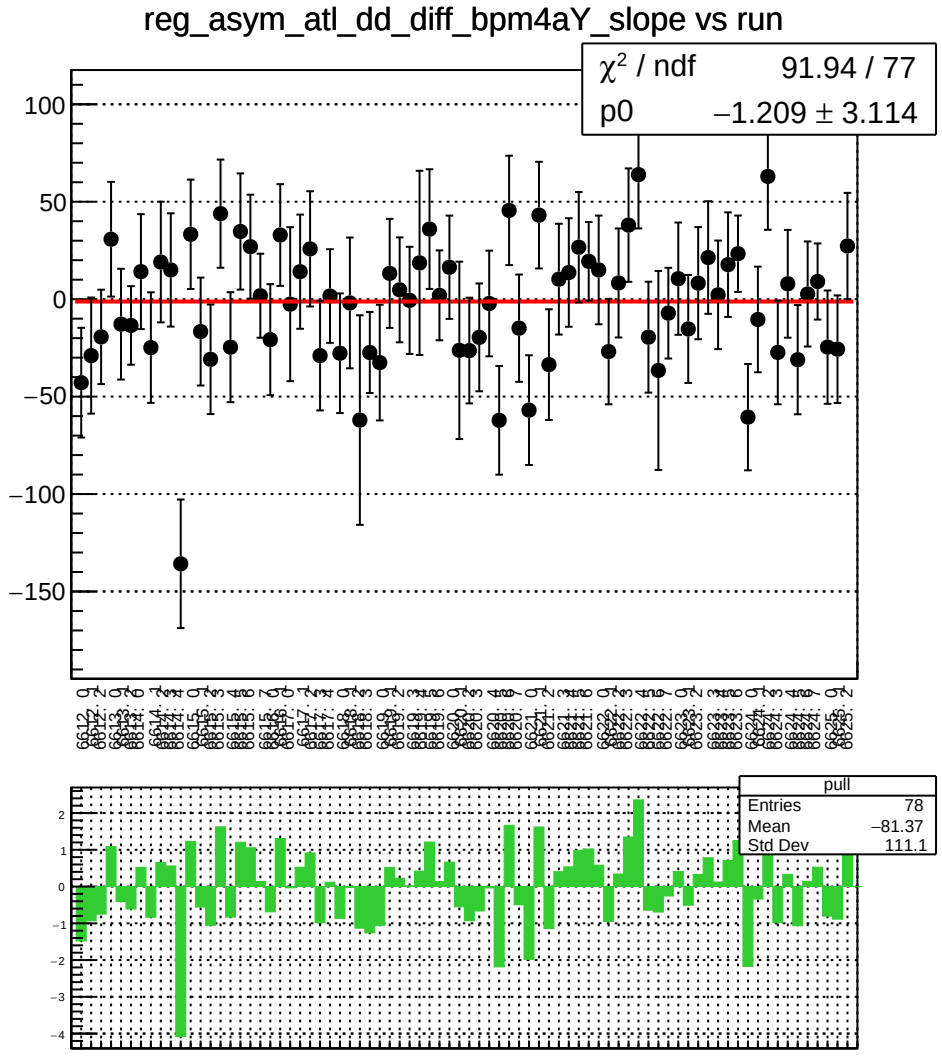

pull1D
Entries 78
Mean −0.01368
Std Dev 1.115

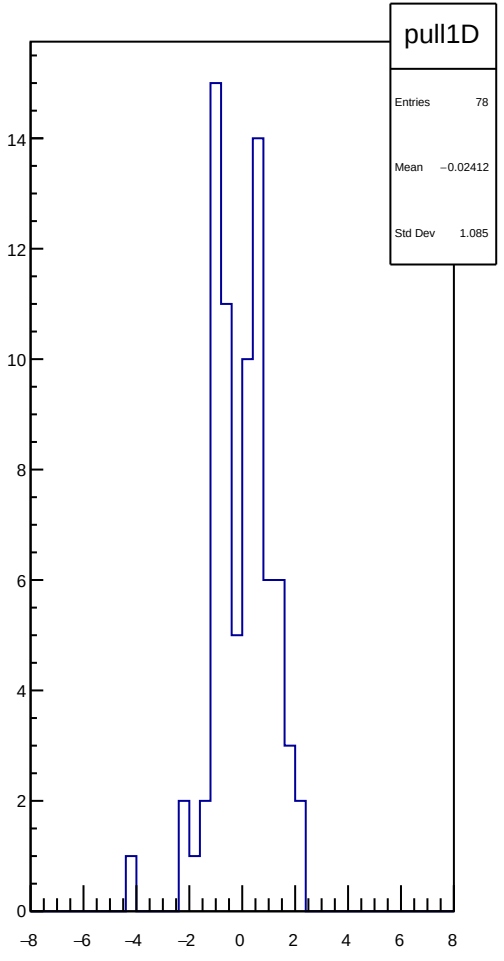

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 87.65 / 77
p0 −7.157 ± 0.1953
pull
Entries 78
Mean 146.2
Std Dev 116.3

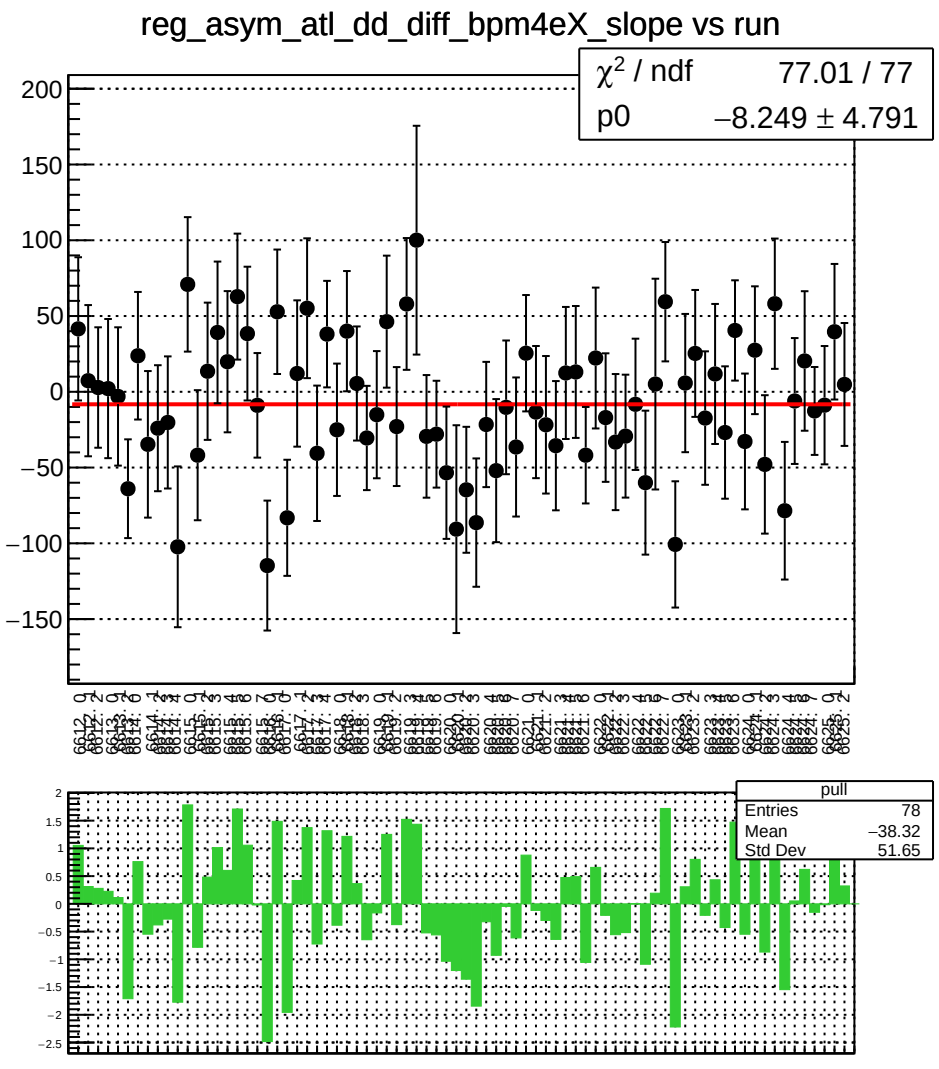

pull1D
Entries 78
Mean 0.01484
Std Dev 1.06

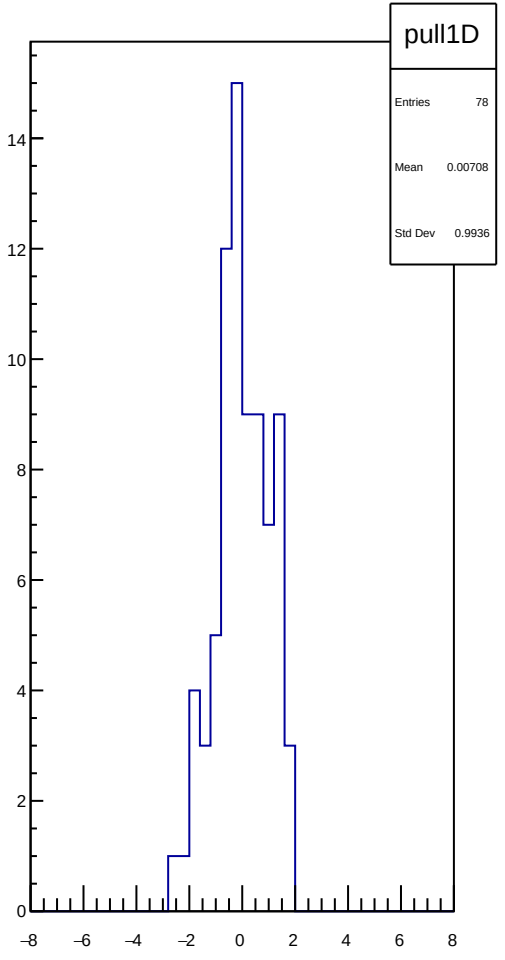

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 75.67 / 77
p0 24.08 ± 4.491
pull
Entries 78
Mean −84.89
Std Dev 73.84

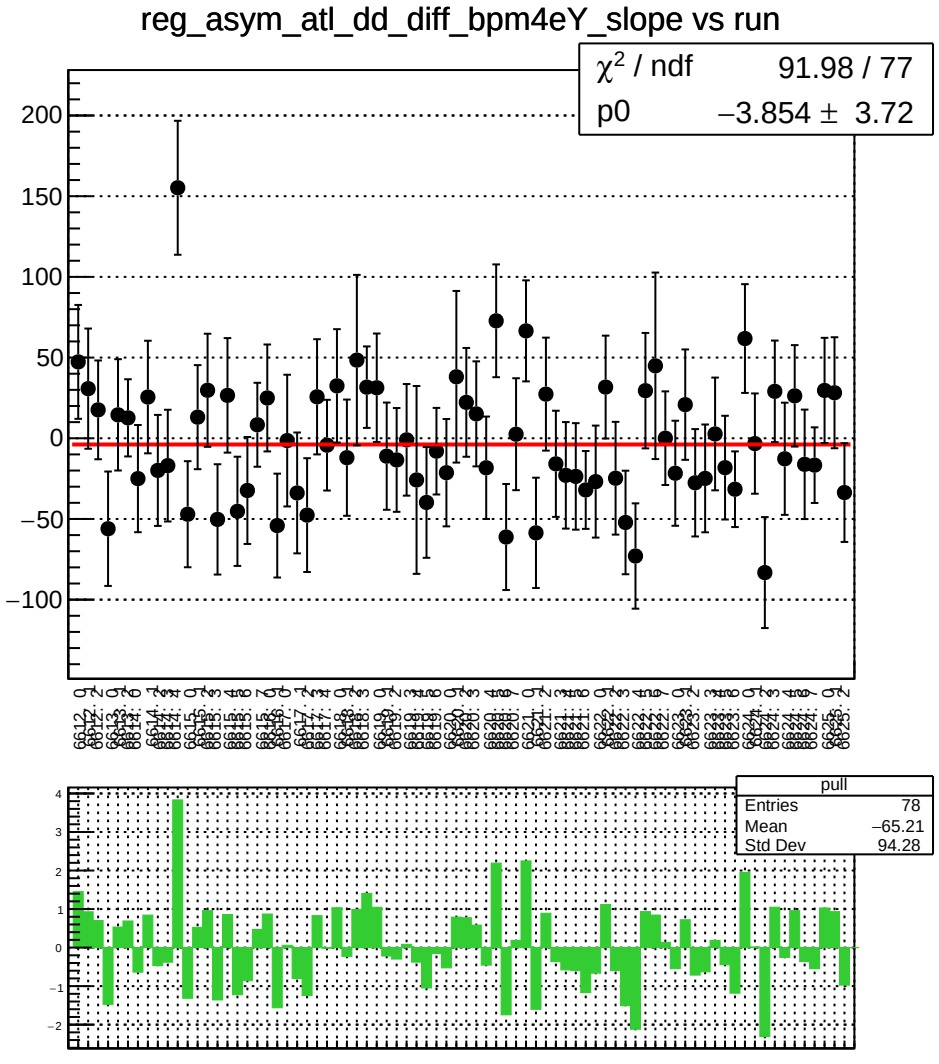

pull1D
Entries 78
Mean −0.003034
Std Dev 0.985

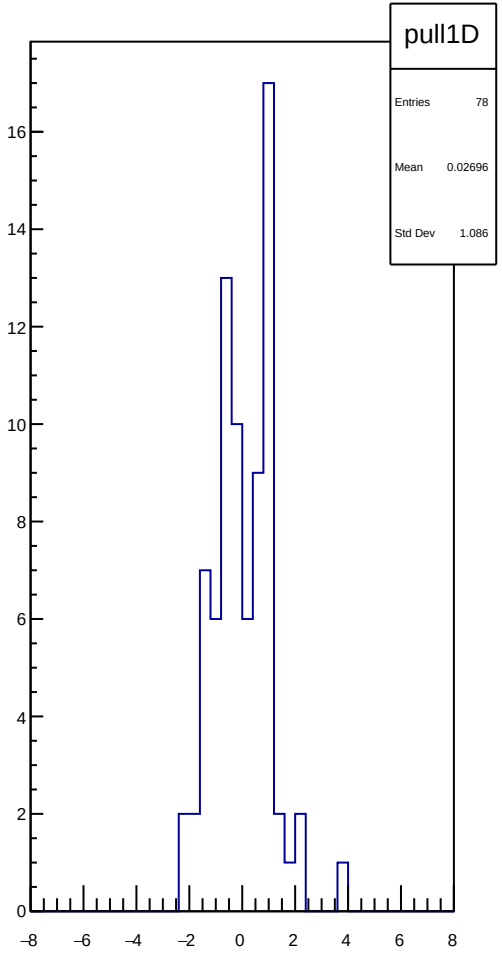

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.94 / 77
p0 −1.209 ± 3.114
pull
Entries 78
Mean −81.37
Std Dev 111.1

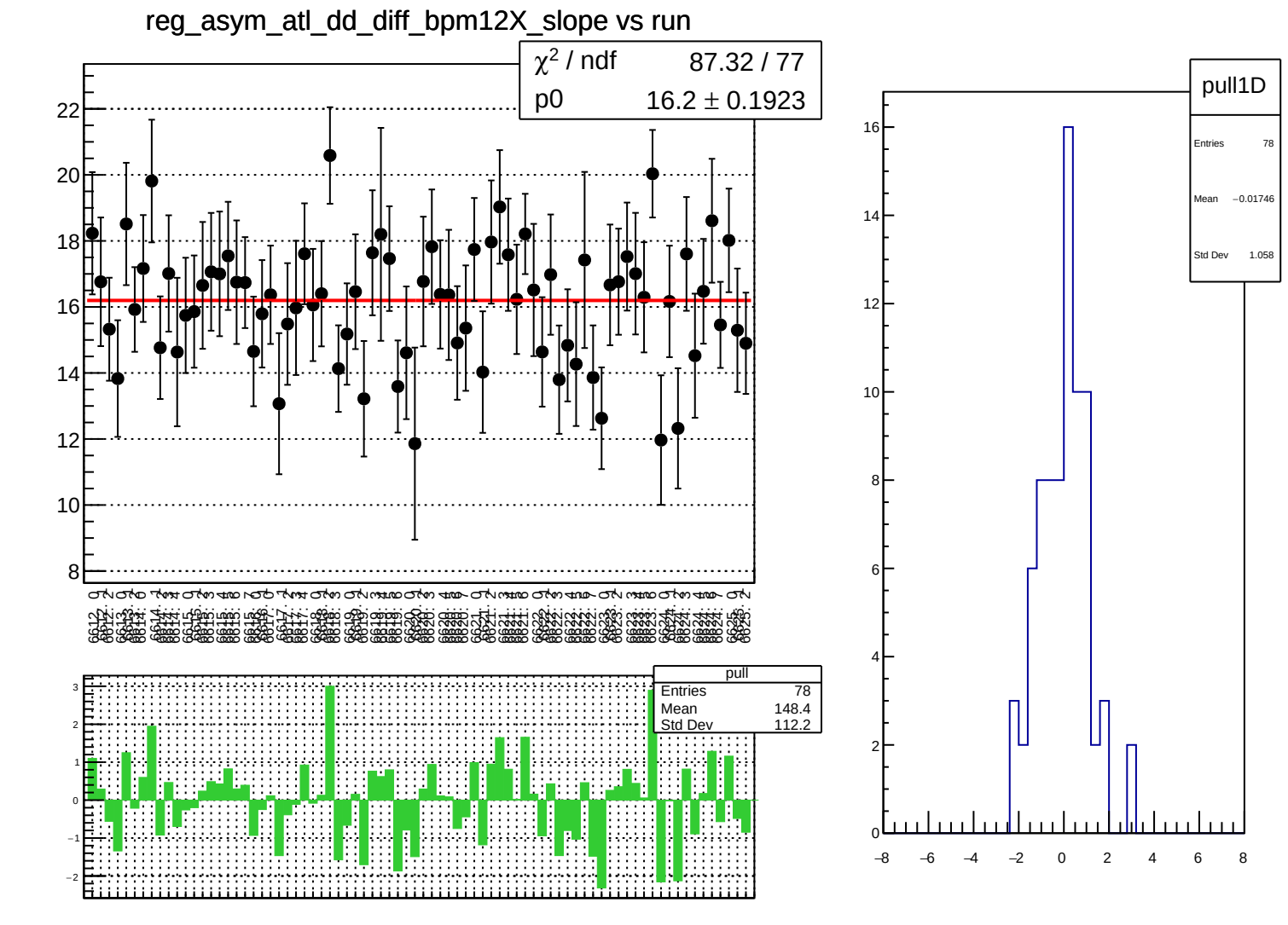

pull1D
Entries 78
Mean −0.02412
Std Dev 1.085

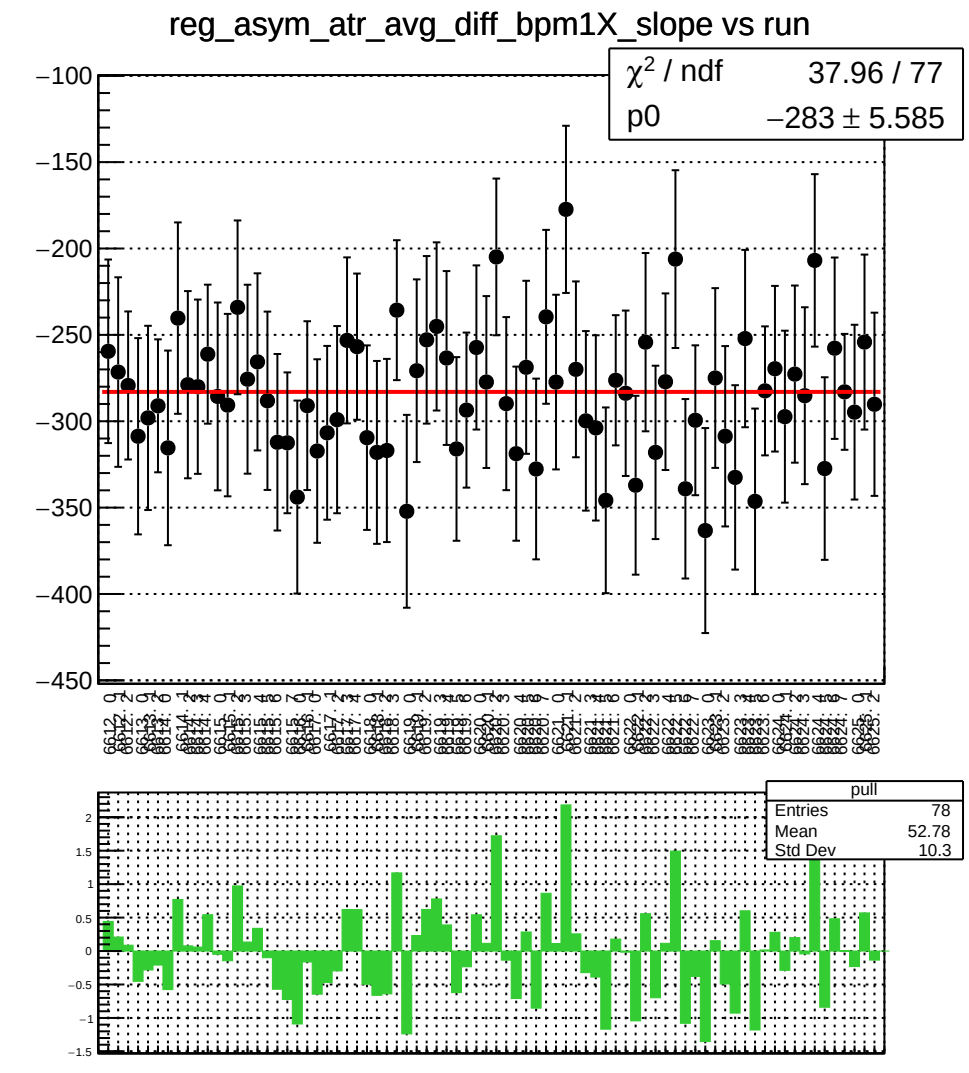

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.01 / 77
p0 −8.249 ± 4.791
pull
Entries 78
Mean −38.32
Std Dev 51.65

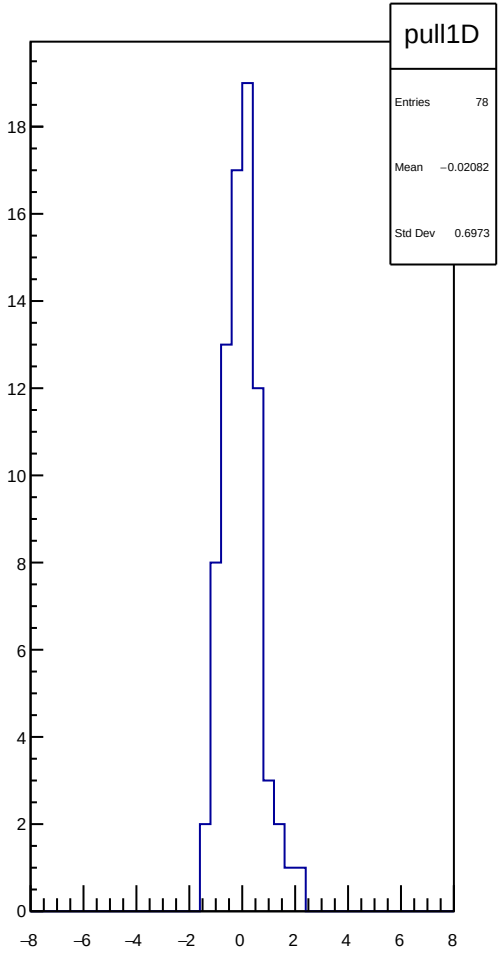

pull1D
Entries 78
Mean 0.00708
Std Dev 0.9936

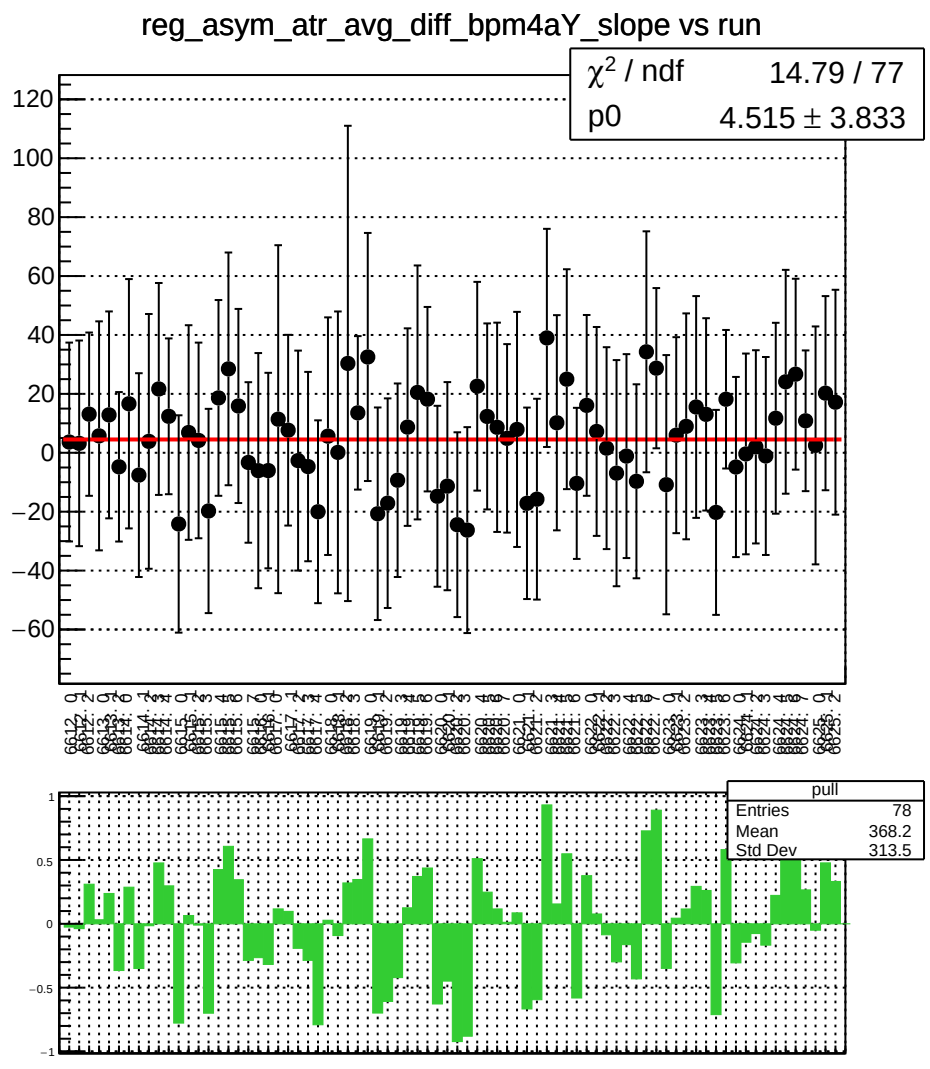

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.98 / 77
p0 −3.854 ± 3.72
pull
Entries 78
Mean −65.21
Std Dev 94.28

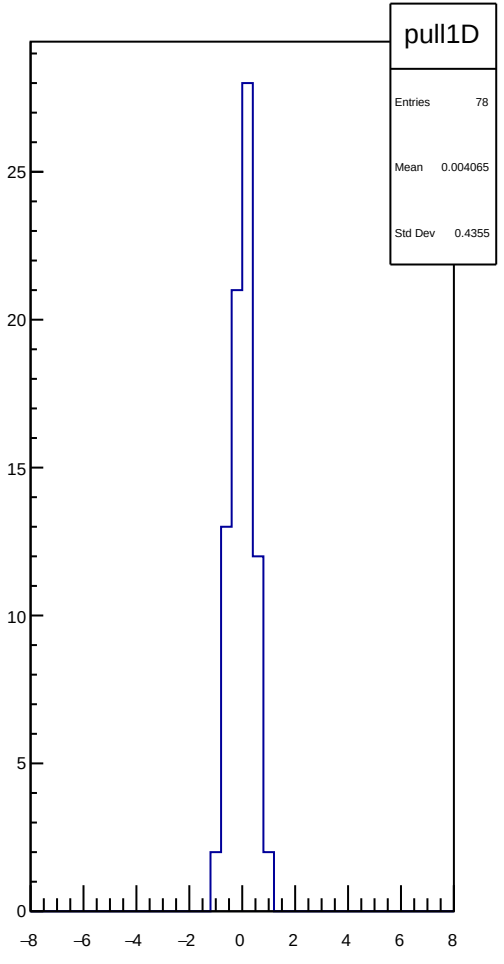

pull1D
Entries 78
Mean 0.02696
Std Dev 1.086

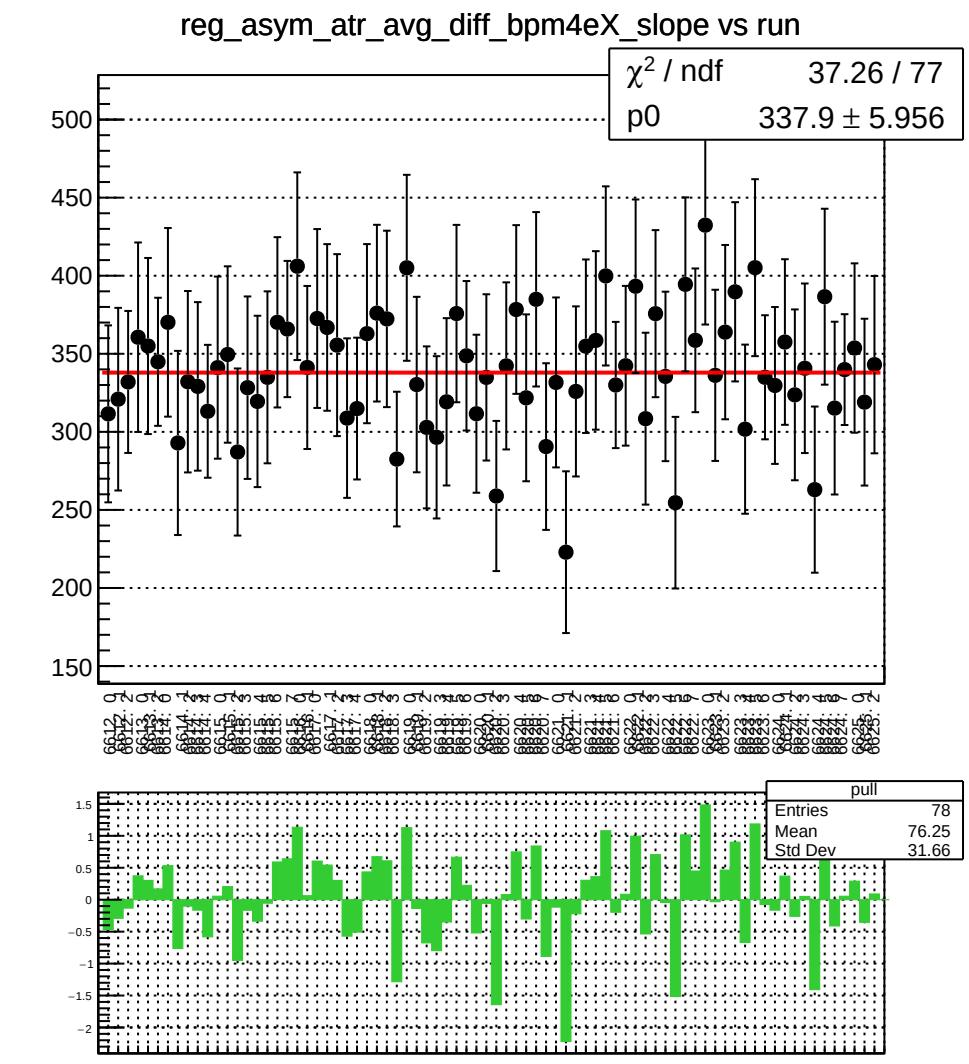

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 87.32 / 77
p0 16.2 ± 0.1923
pull
Entries 78
Mean 148.4
Std Dev 112.2
pull1D
Entries 78
Mean −0.01746
Std Dev 1.058

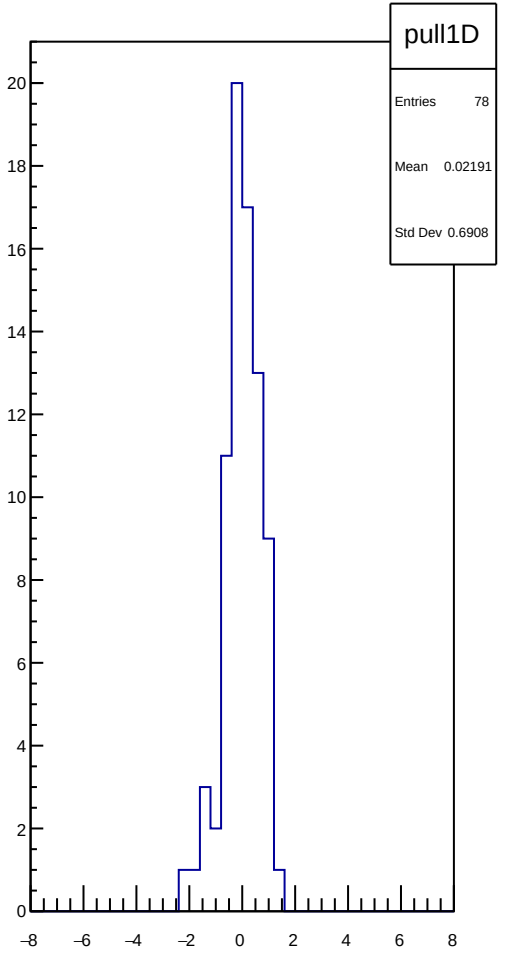

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 37.96 / 77
p0 −283 ± 5.585
pull
Entries 78
Mean 52.78
Std Dev 10.3

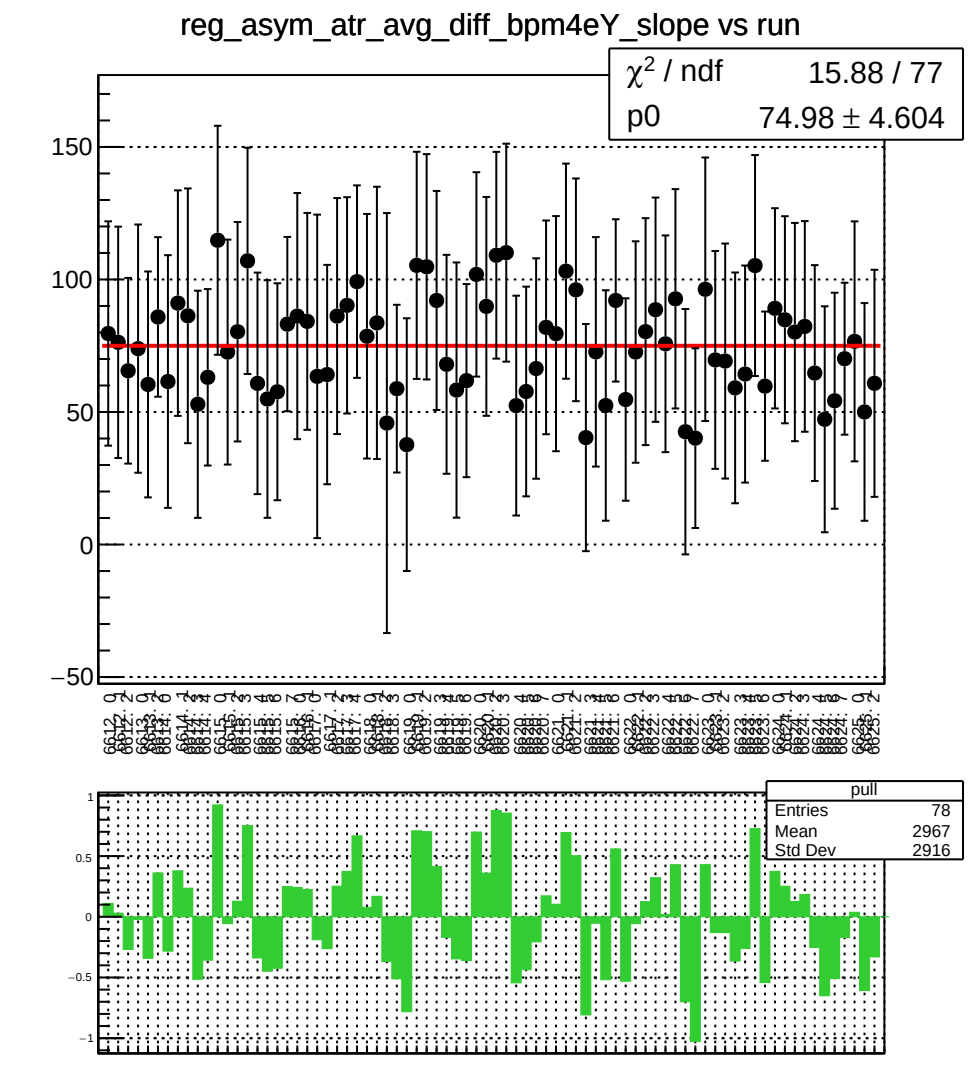

pull1D
Entries 78
Mean −0.02082
Std Dev 0.6973

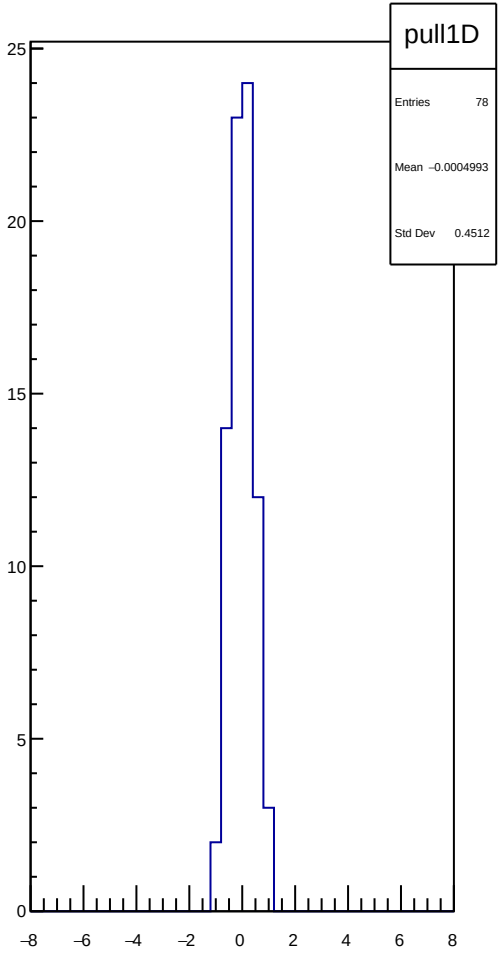

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 14.79 / 77
p0 4.515 ± 3.833
pull
Entries 78
Mean 368.2
Std Dev 313.5

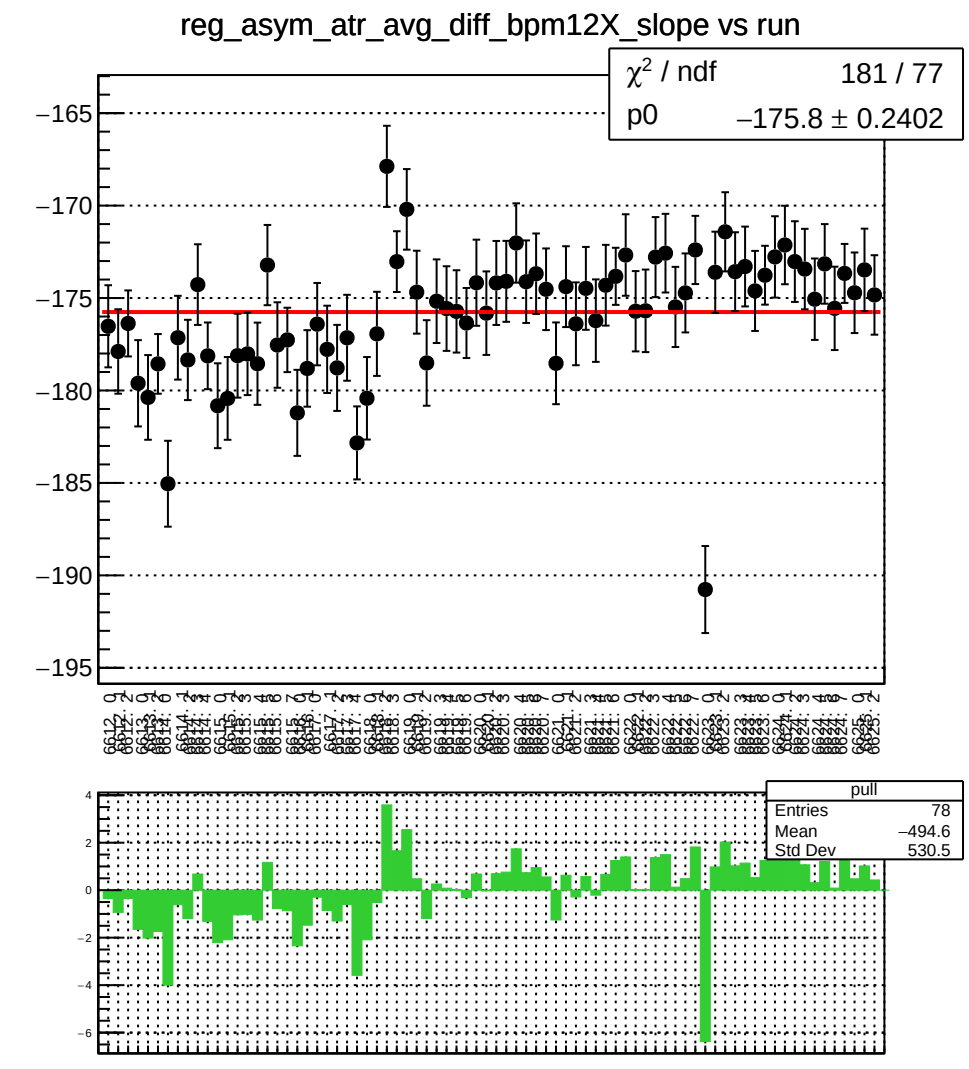

pull1D
Entries 78
Mean 0.004065
Std Dev 0.4355

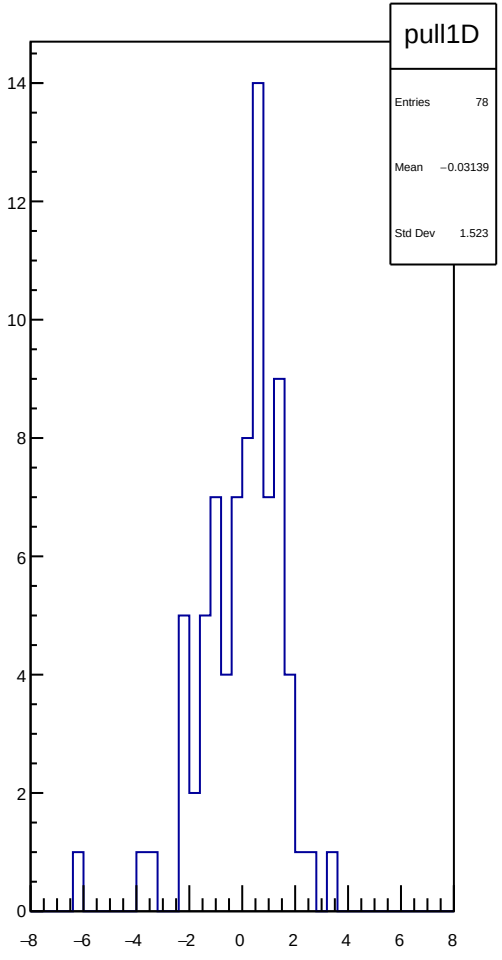

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.26 / 77
p0 337.9 ± 5.956
pull
Entries 78
Mean 76.25
Std Dev 31.66

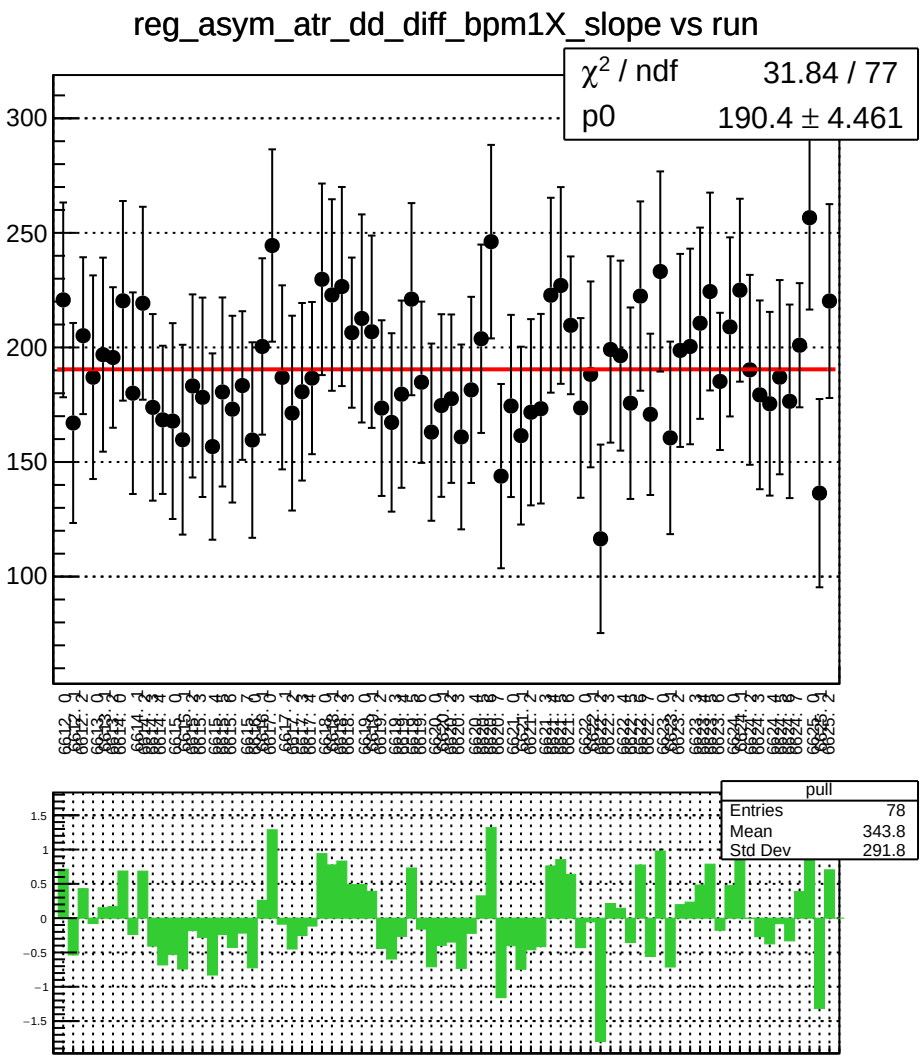

pull1D
Entries 78
Mean 0.02191
Std Dev 0.6908

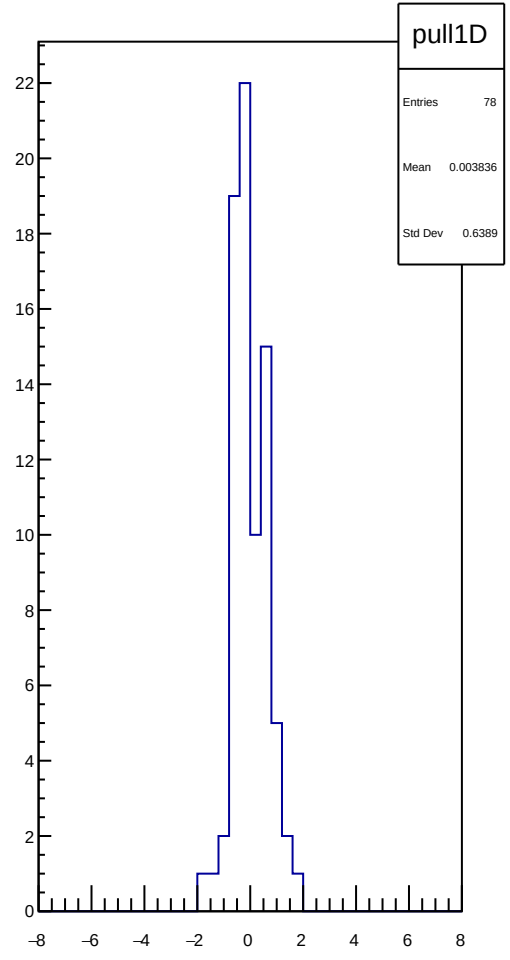

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.88 / 77
p0 74.98 ± 4.604
150
100
50
0
−50
pull
Entries 78
Mean 2967
Std Dev 2916
1
0.5
0
−0.5
−1

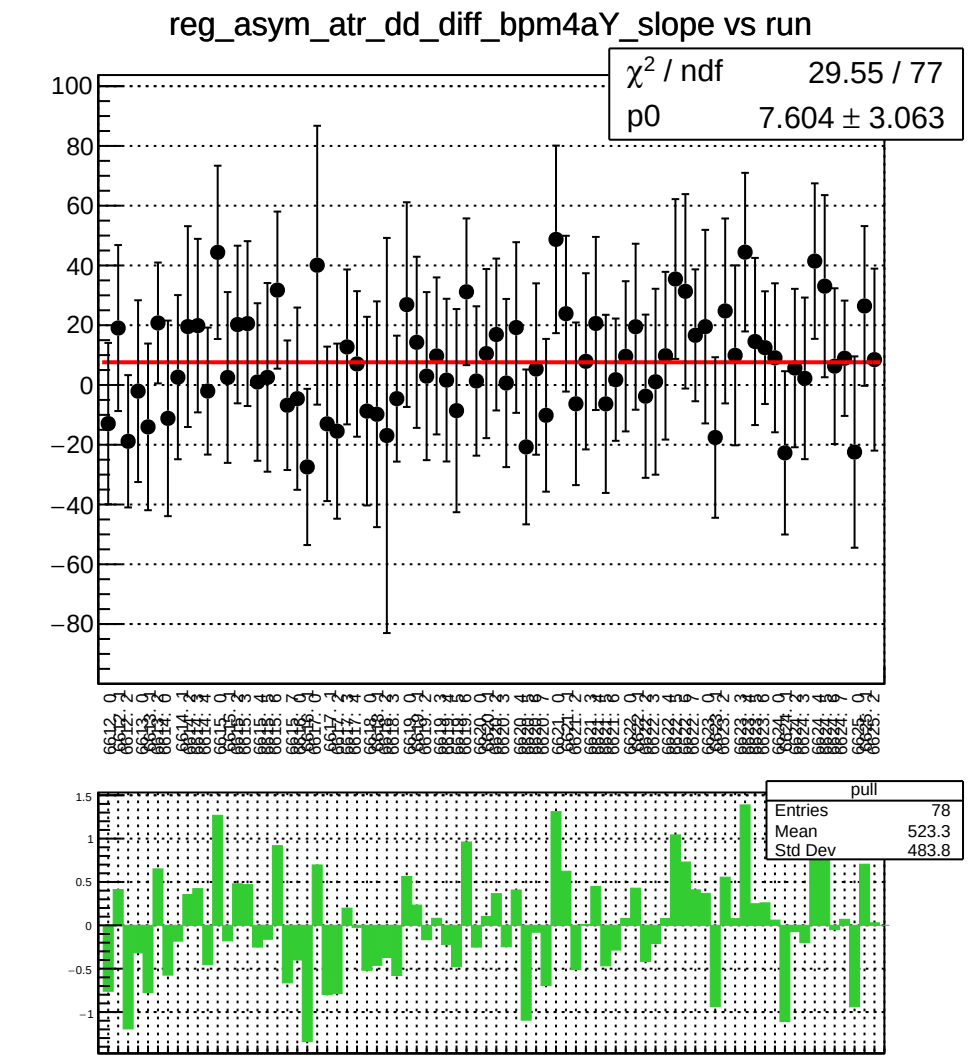

pull1D
Entries 78
Mean −0.0004993
Std Dev 0.4512
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

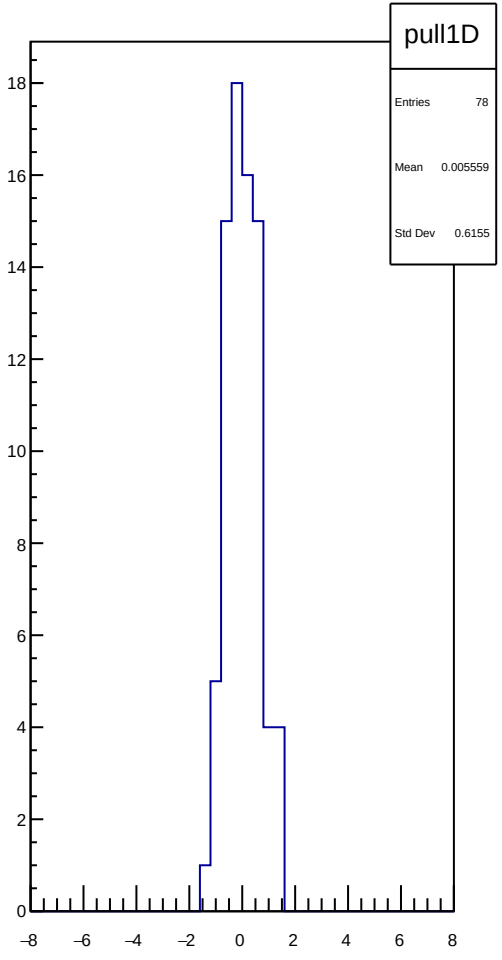

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 181 / 77
p0 −175.8 ± 0.2402
pull
Entries 78
Mean −494.6
Std Dev 530.5

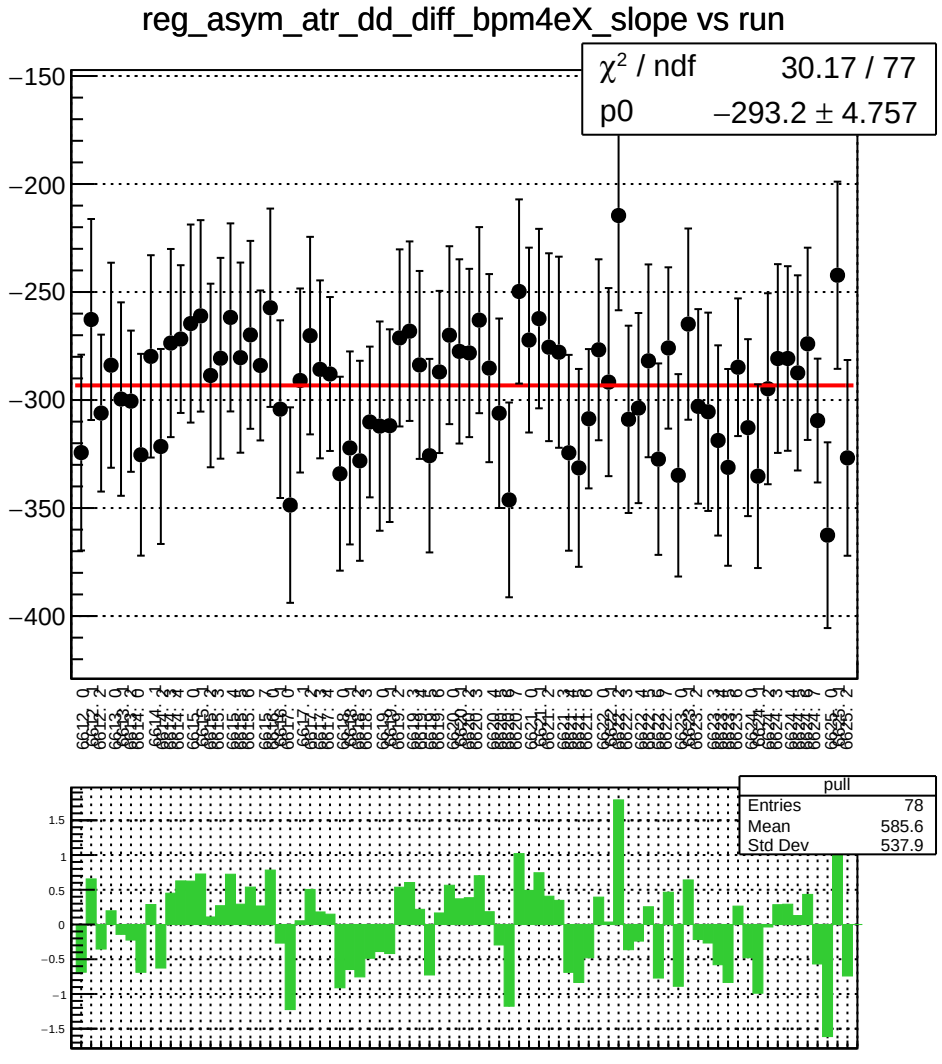

pull1D
Entries 78
Mean −0.03139
Std Dev 1.523

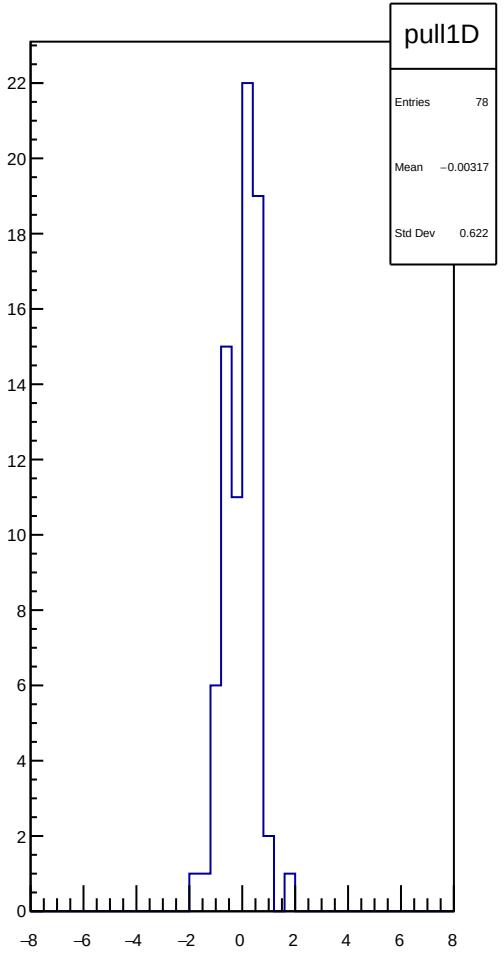

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 31.84 / 77
p0 190.4 ± 4.461
300
250
200
150
100
pull
Entries 78
Mean 343.8
Std Dev 291.8
1.5
1
0.5
0
−0.5
−1
−1.5

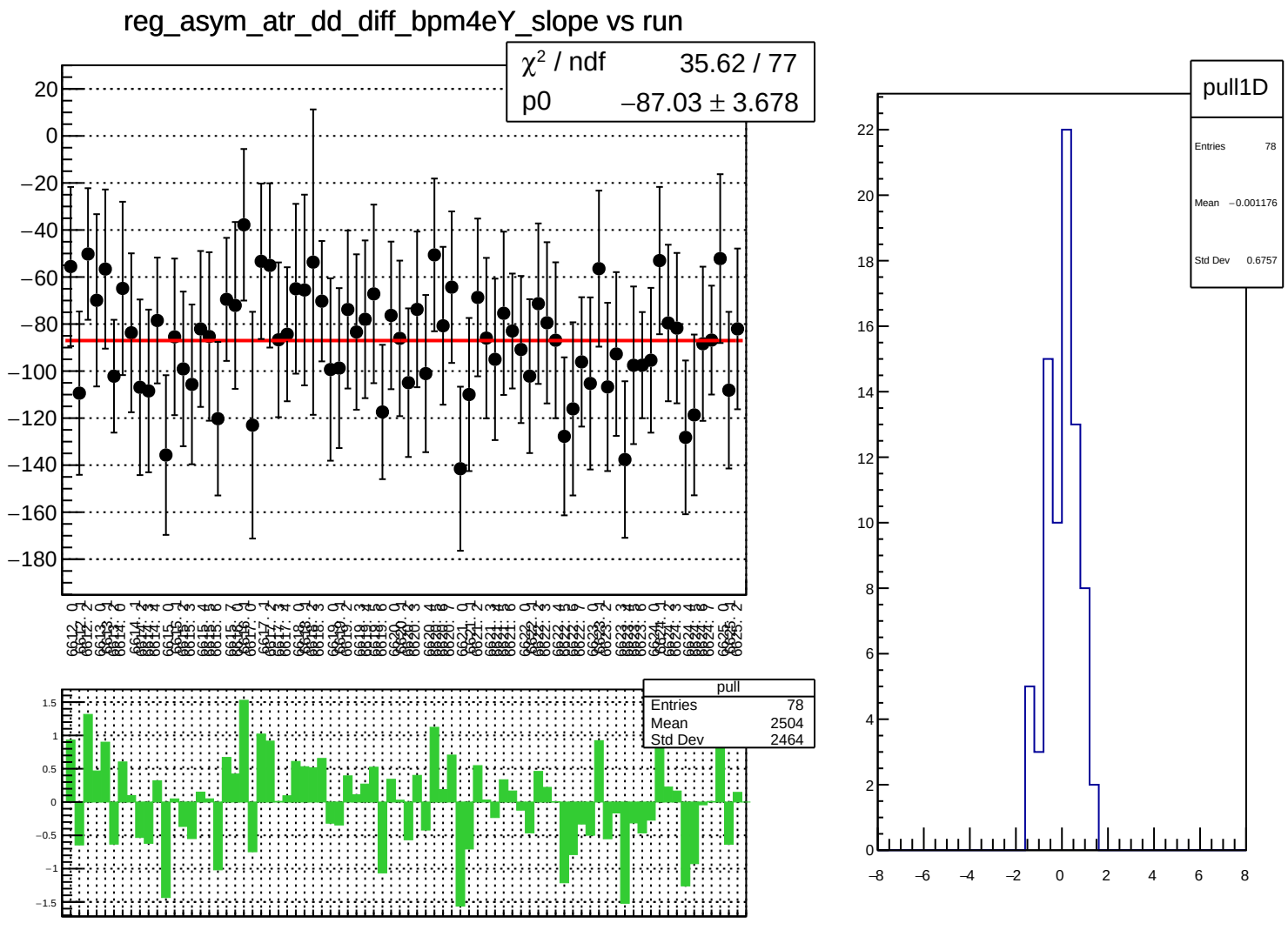

pull1D
Entries 78
Mean 0.003836
Std Dev 0.6389
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

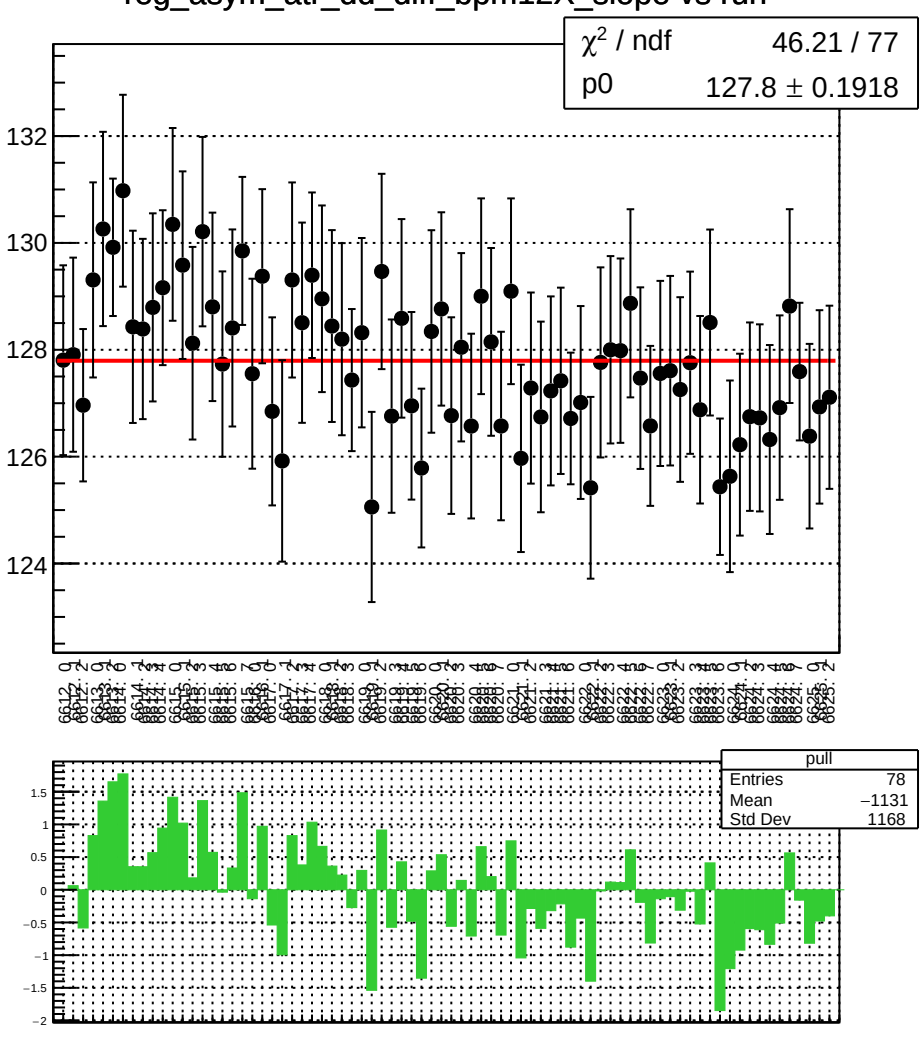

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 29.55 / 77
p0 7.604 ± 3.063
pull
Entries 78
Mean 523.3
Std Dev 483.8

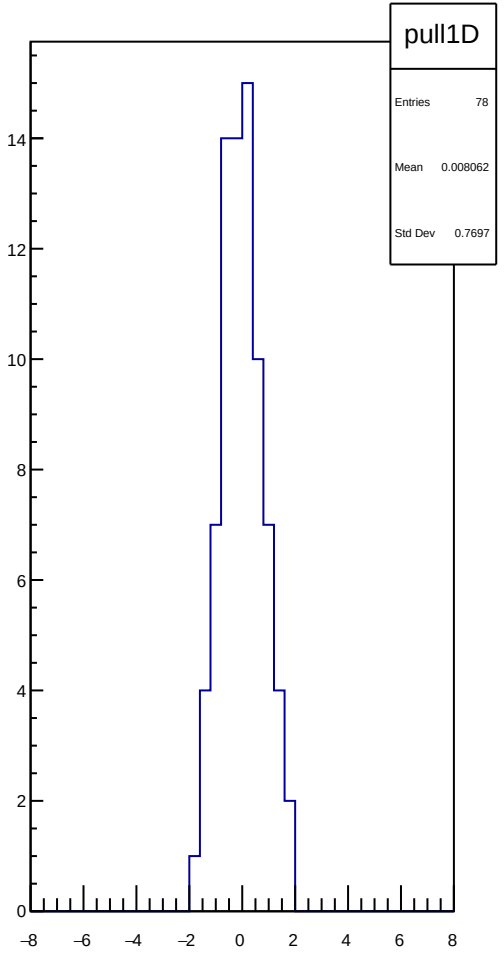

pull1D
Entries 78
Mean 0.005559
Std Dev 0.6155

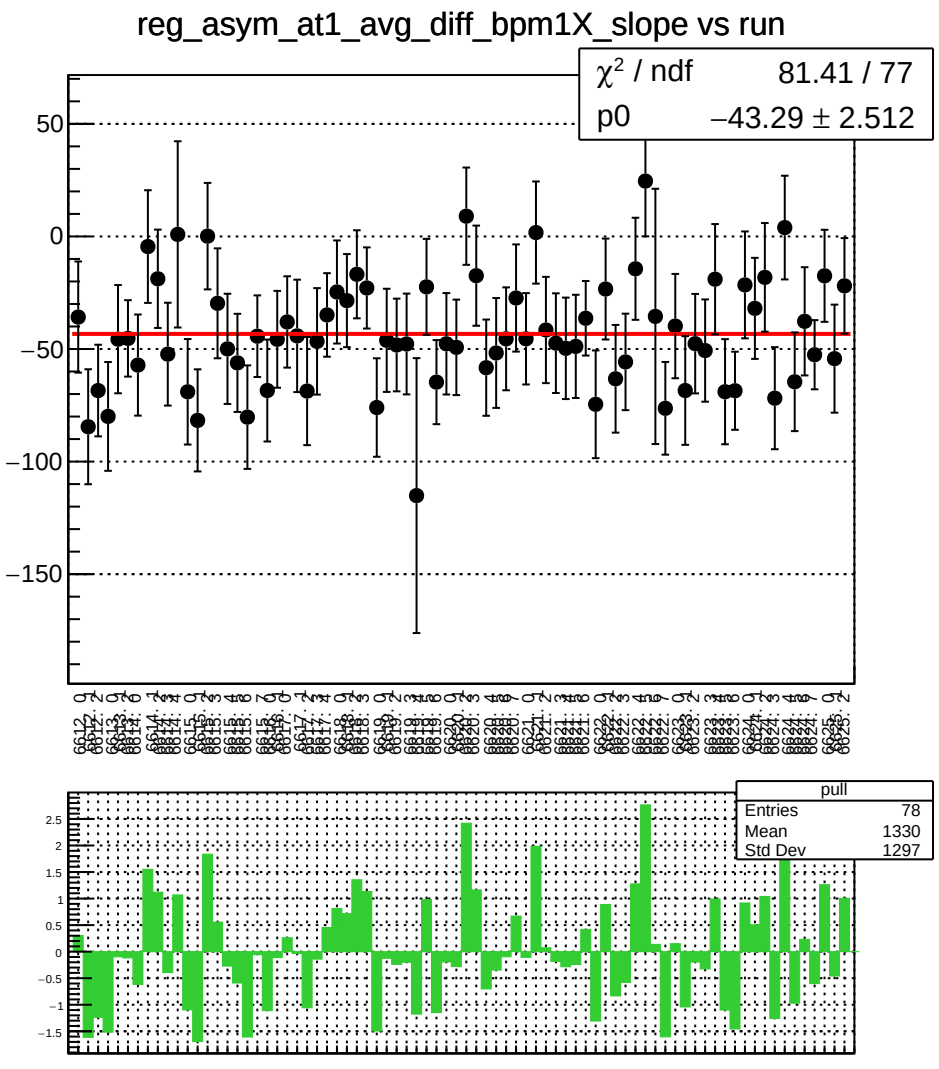

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.17 / 77
p0 −293.2 ± 4.757
pull
Entries 78
Mean 585.6
Std Dev 537.9

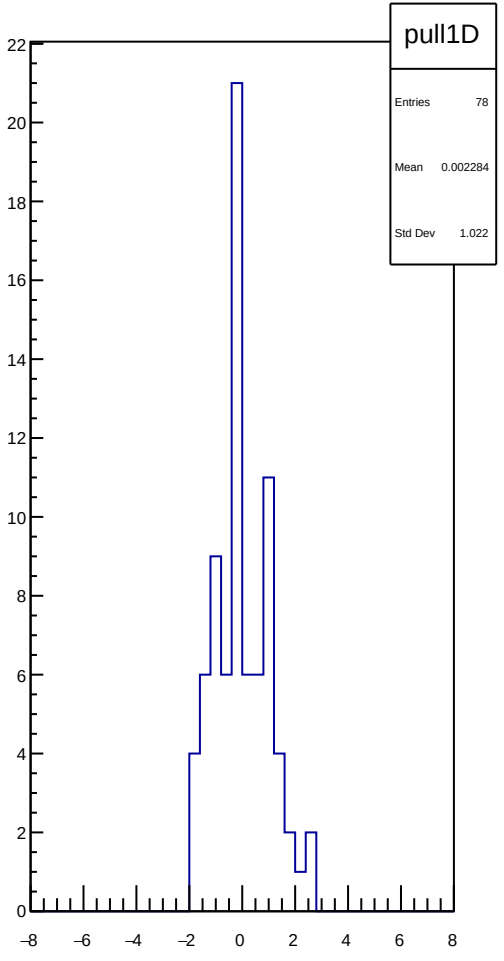

pull1D
Entries 78
Mean −0.00317
Std Dev 0.622

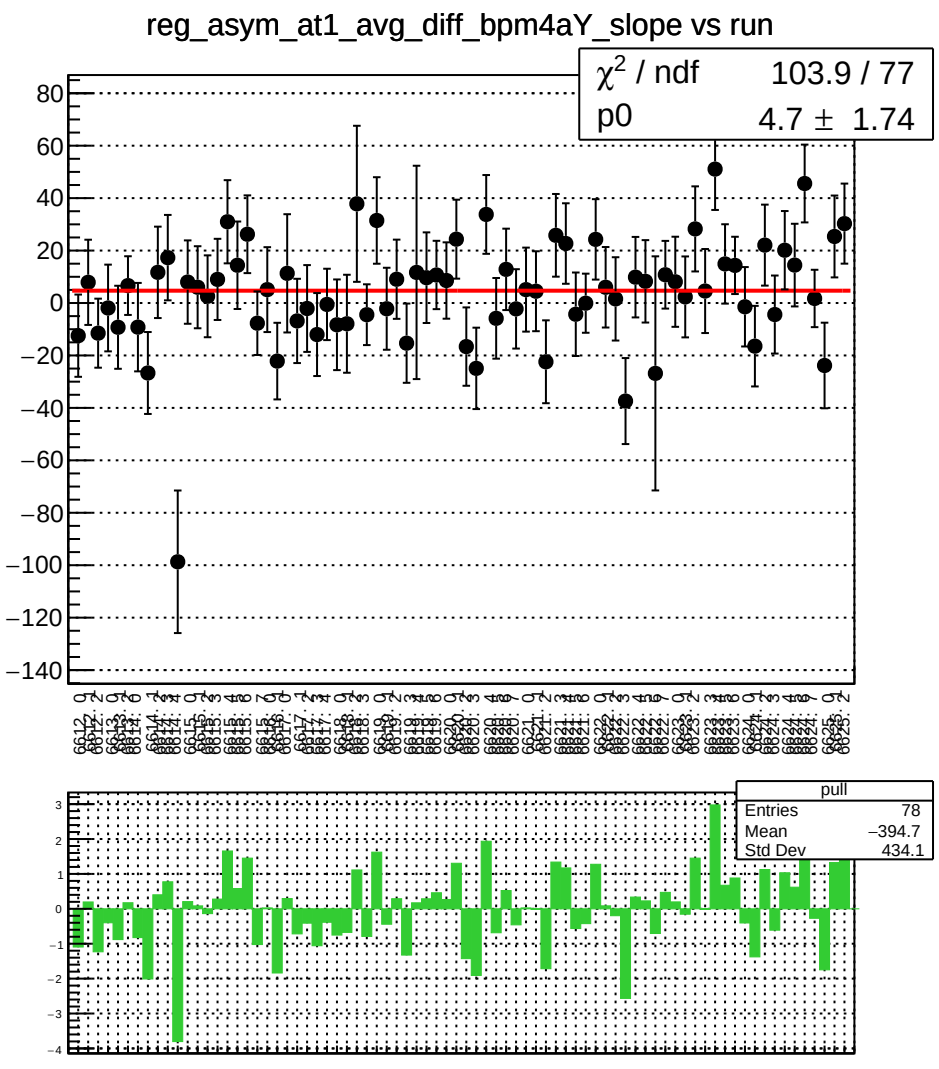

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.62 / 77
p0 −87.03 ± 3.678
pull
Entries 78
Mean 2504
Std Dev 2464
pull1D
Entries 78
Mean −0.001176
Std Dev 0.6757

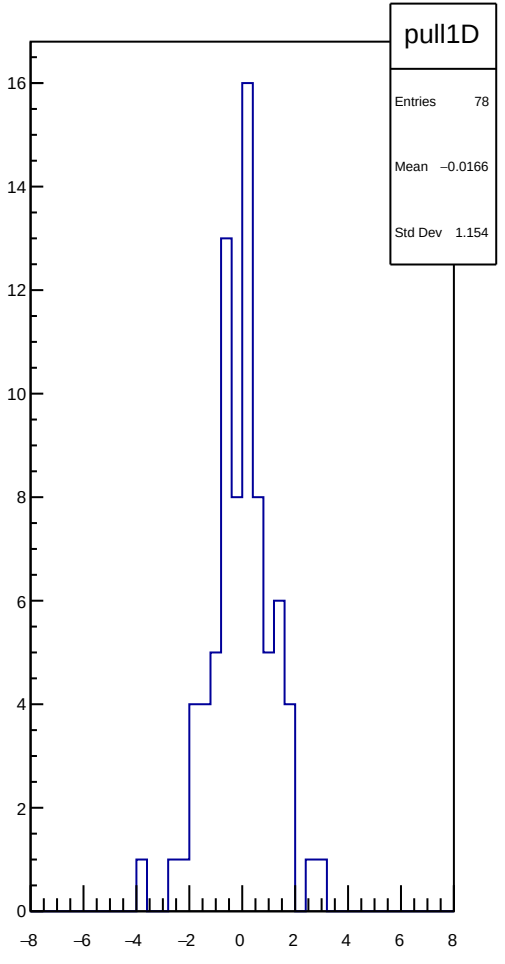

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 46.21 / 77
p0 127.8 ± 0.1918
pull
Entries 78
Mean −1131
Std Dev 1168

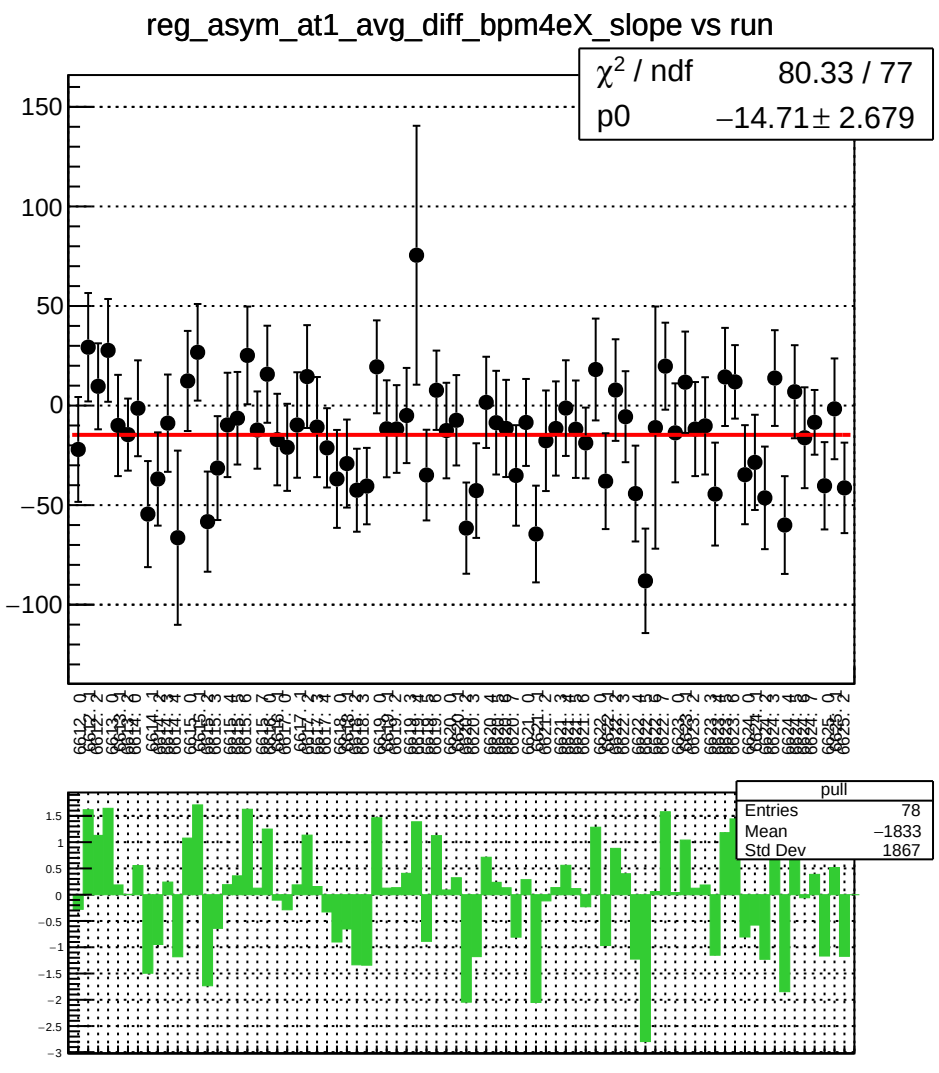

pull1D
Entries 78
Mean 0.008062
Std Dev 0.7697

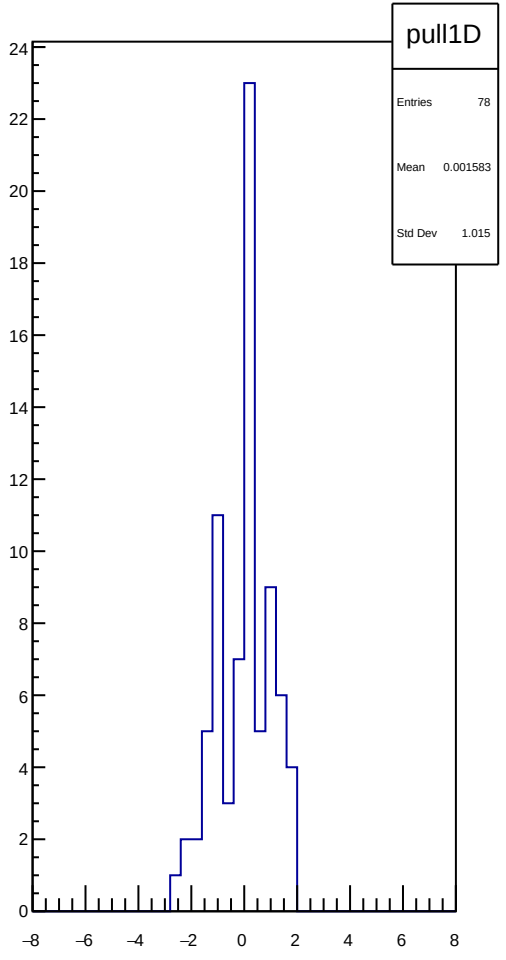

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 81.41 / 77
p0 −43.29 ± 2.512
50
0
−50
−100
−150
pull
Entries 78
Mean 1330
Std Dev 1297
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

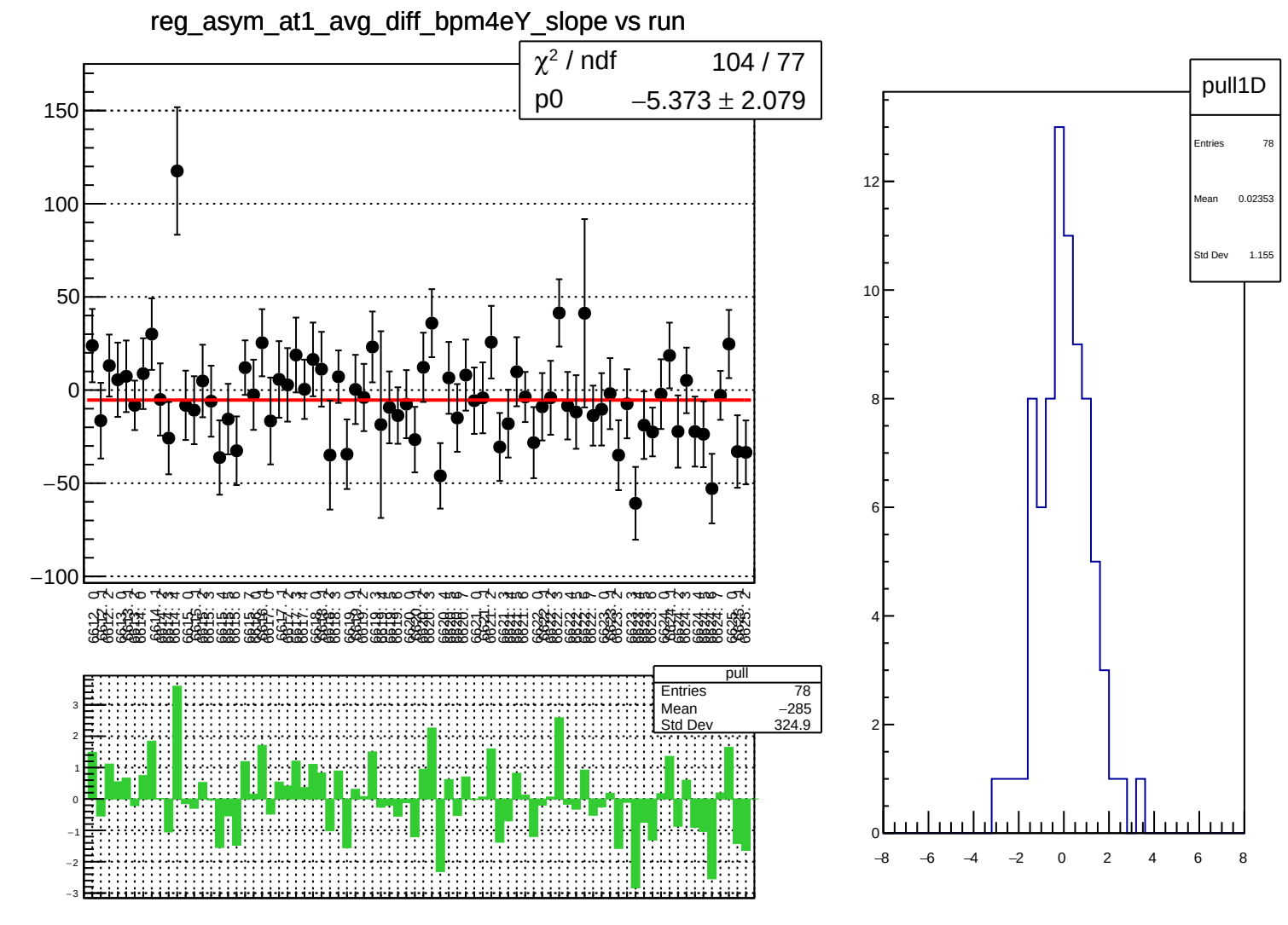

pull1D
Entries 78
Mean 0.002284
Std Dev 1.022
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

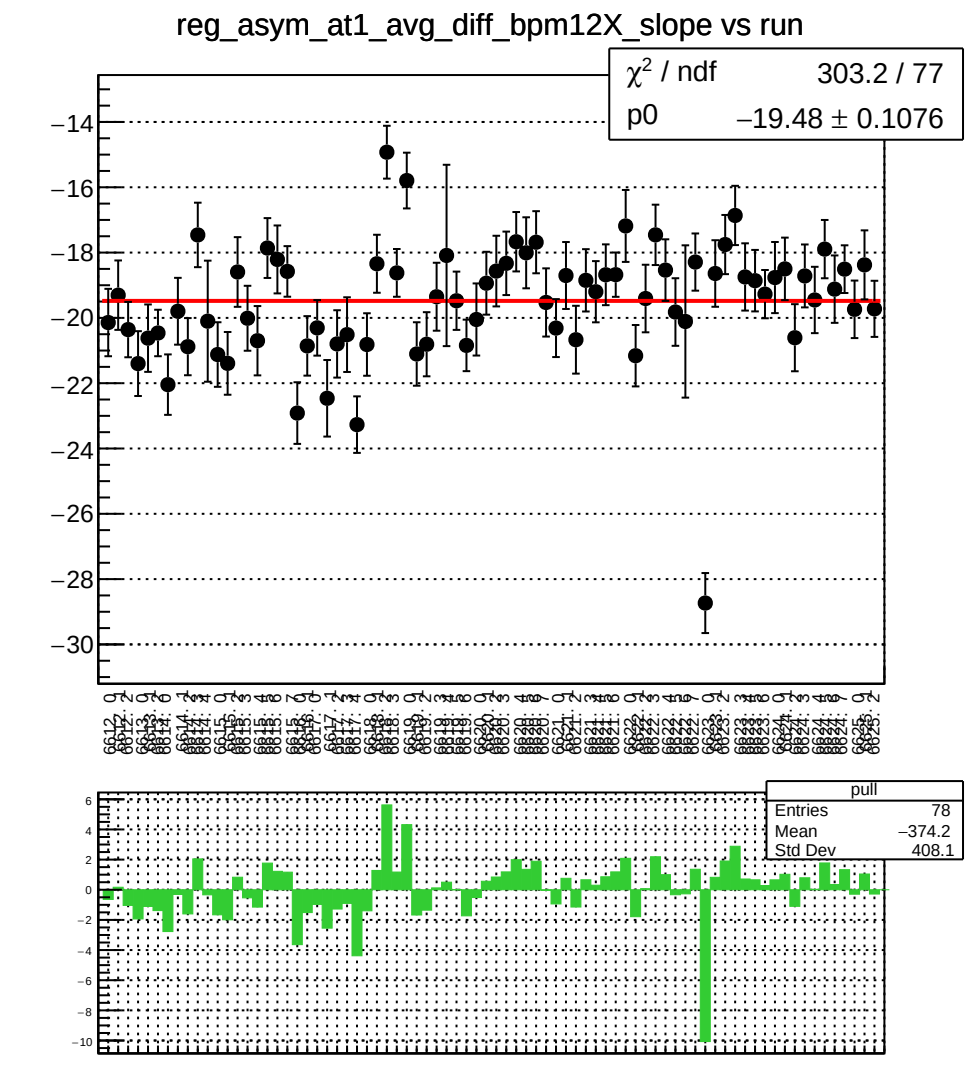

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 103.9 / 77
p0 4.7 ± 1.74
pull
Entries 78
Mean −394.7
Std Dev 434.1

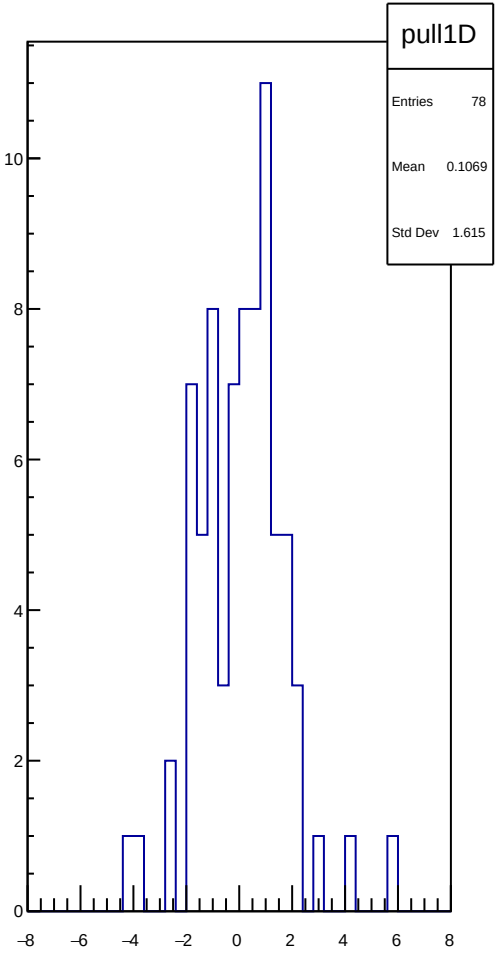

pull1D
Entries 78
Mean −0.0166
Std Dev 1.154

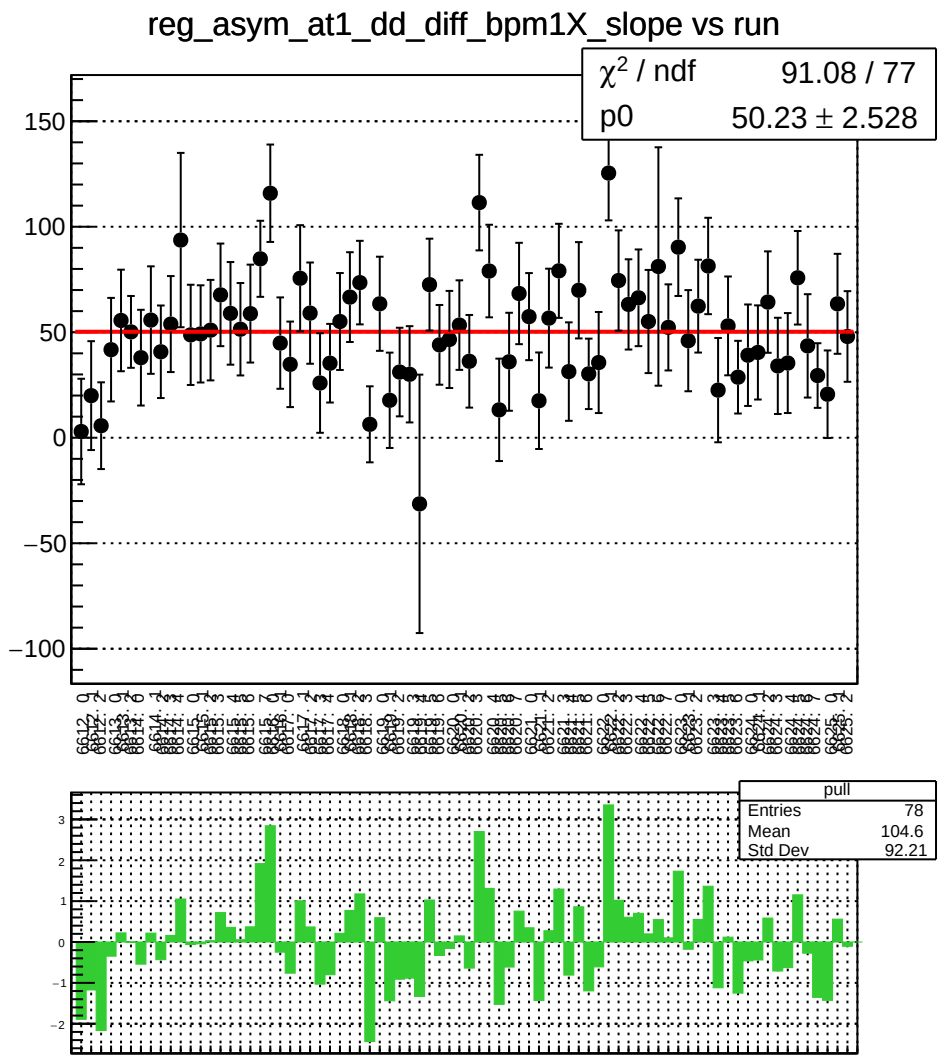

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.33 / 77
p0 −14.71 ± 2.679
150
100
50
0
−50
−100
pull
Entries 78
Mean −1833
Std Dev 1867
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

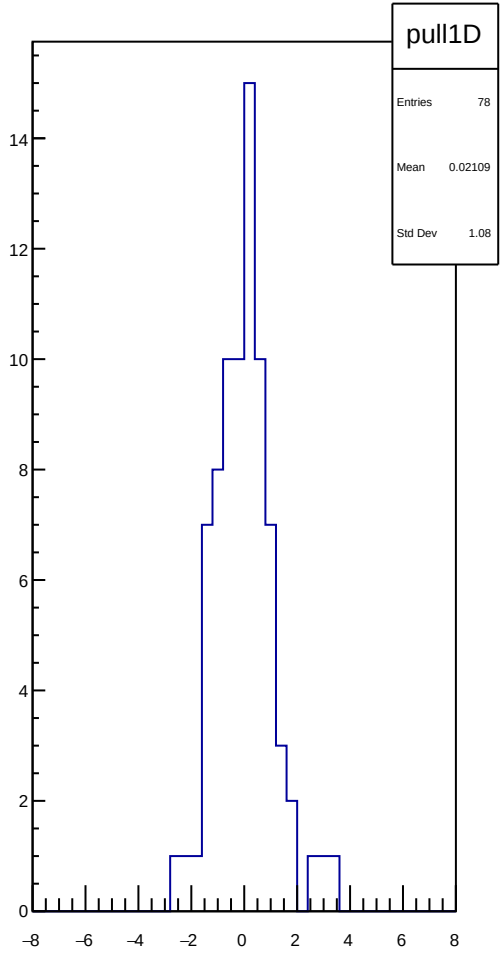

pull1D
Entries 78
Mean 0.001583
Std Dev 1.015
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

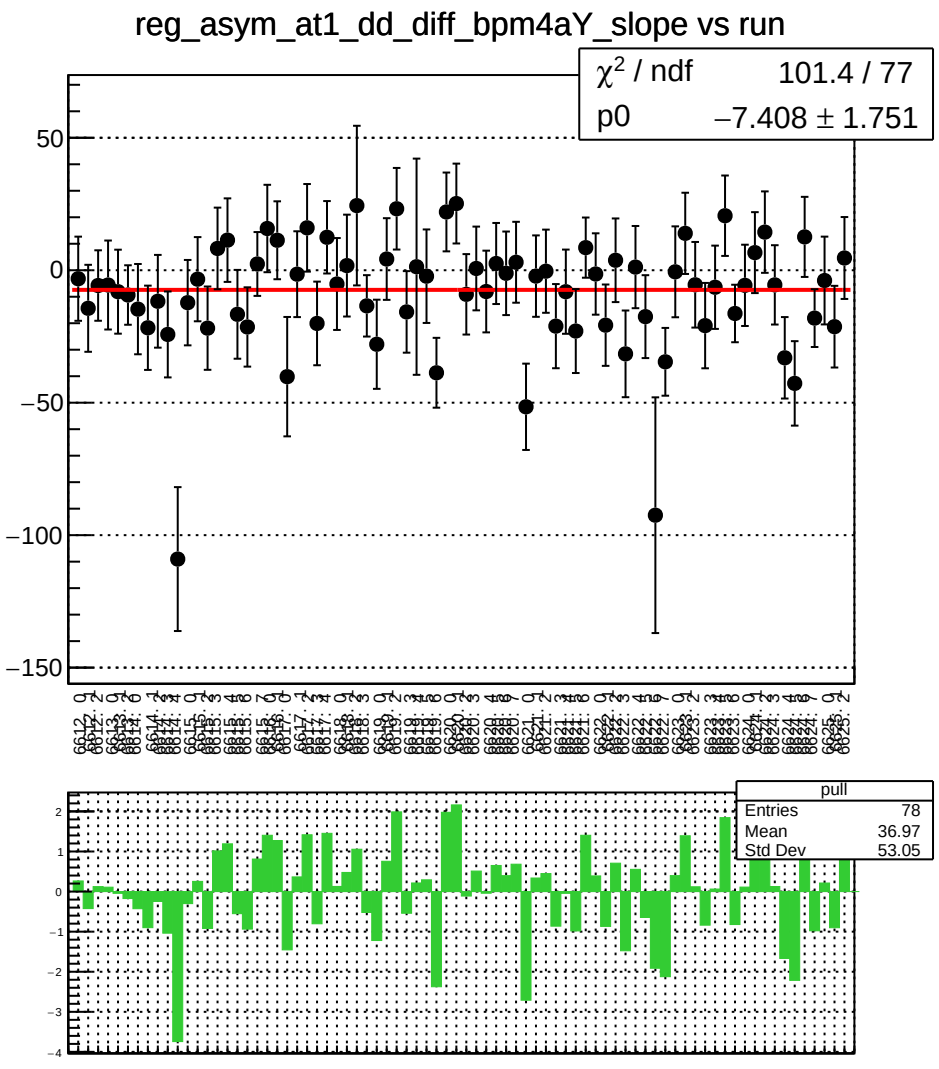

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 104 / 77
p0 −5.373 ± 2.079
150
100
50
0
−50
−100
pull
Entries 78
Mean −285
Std Dev 324.9
3
2
1
0
−1
−2
−3
pull1D
Entries 78
Mean 0.02353
Std Dev 1.155
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

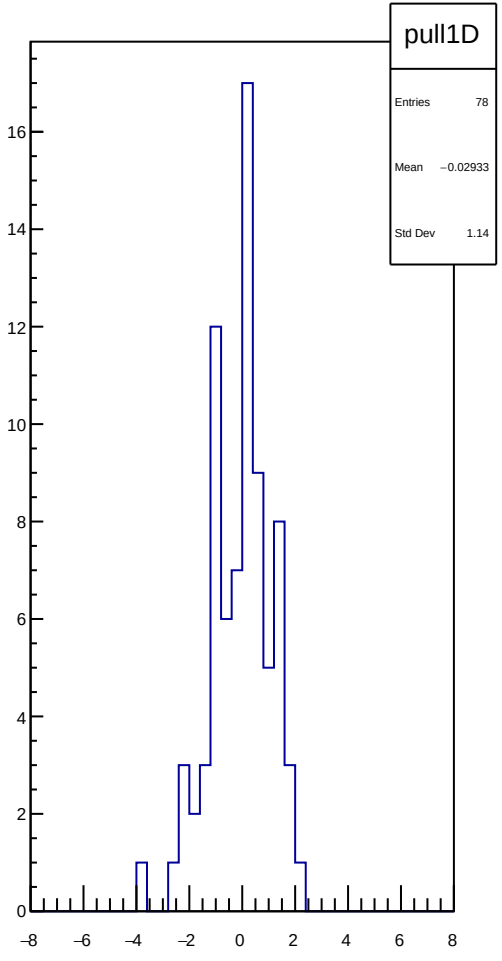

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 303.2 / 77
p0 −19.48 ± 0.1076
pull
Entries 78
Mean −374.2
Std Dev 408.1

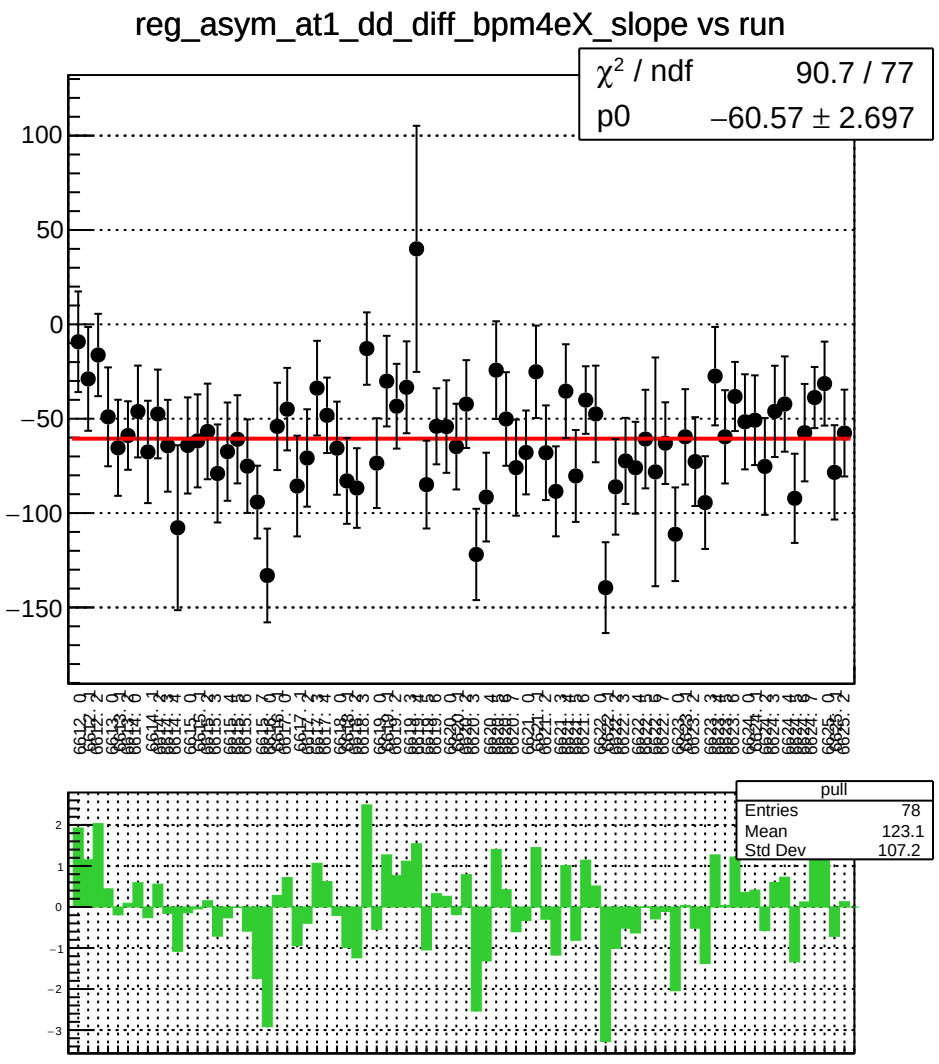

pull1D
Entries 78
Mean 0.1069
Std Dev 1.615

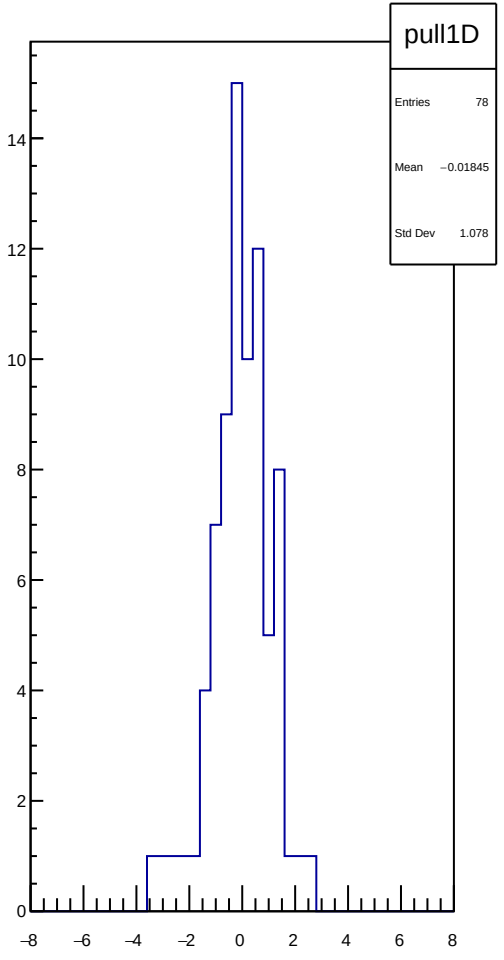

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 91.08 / 77
p0 50.23 ± 2.528
150
100
50
0
−50
−100
pull
Entries 78
Mean 104.6
Std Dev 92.21
3
2
1
0
−1
−2

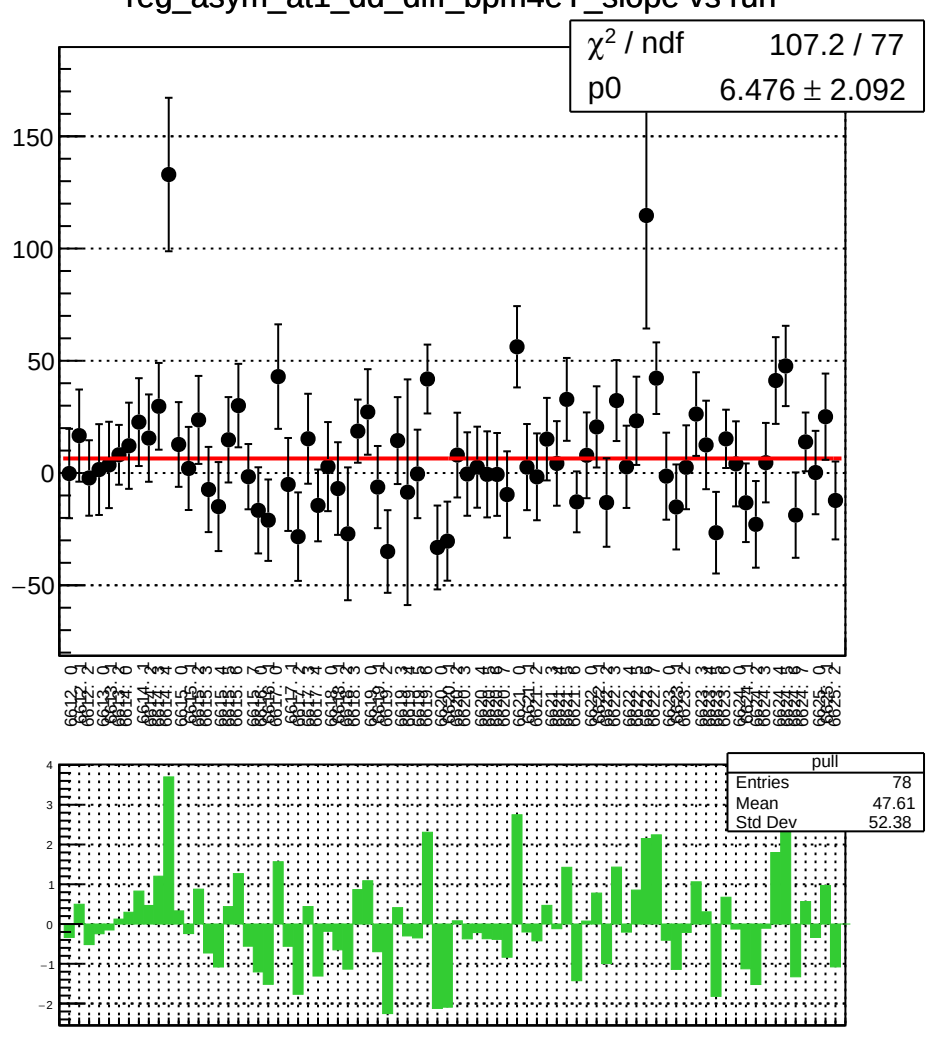

pull1D
Entries 78
Mean 0.02109
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

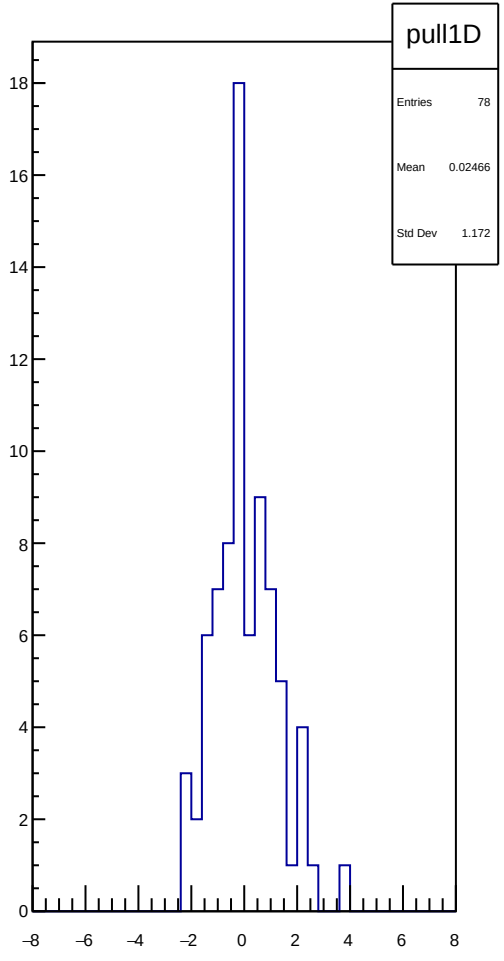

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 101.4 / 77
p0 −7.408 ± 1.751
pull
Entries 78
Mean 36.97
Std Dev 53.05

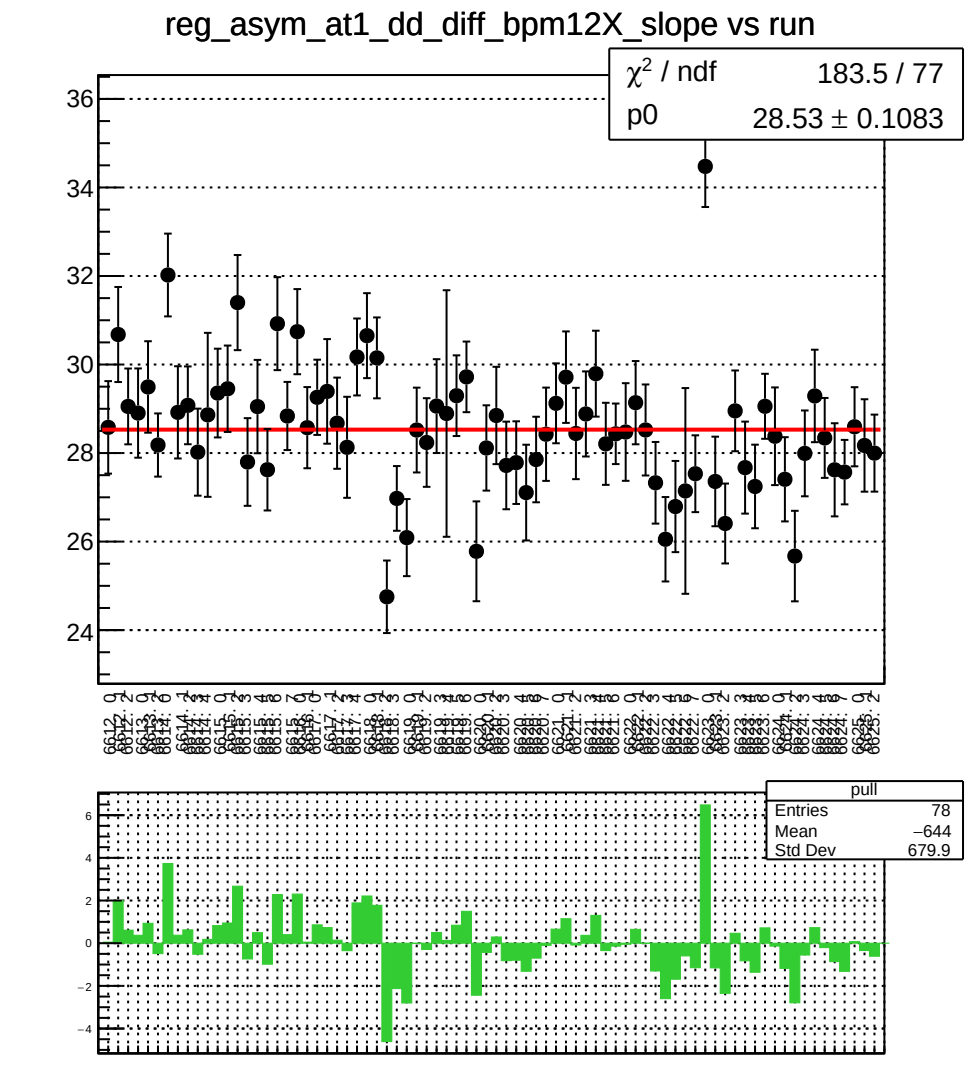

pull1D
Entries 78
Mean −0.02933
Std Dev 1.14

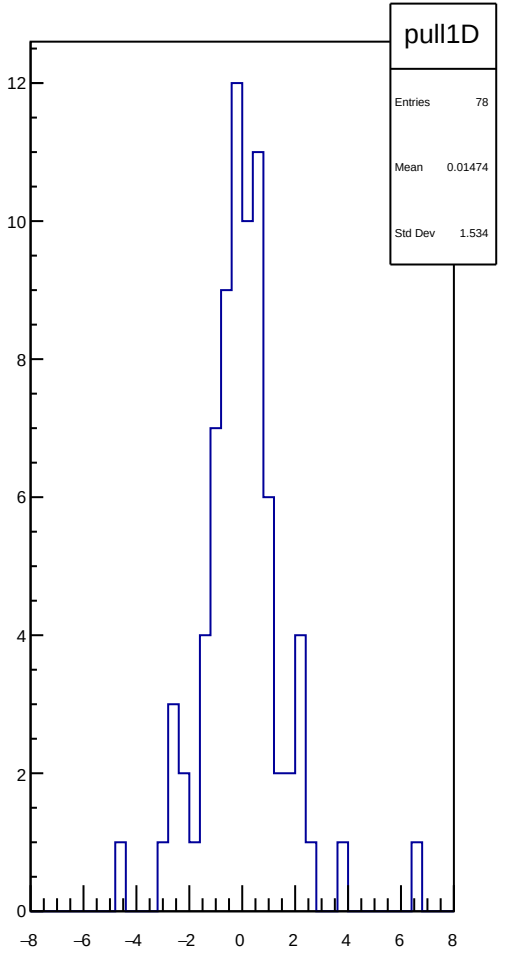

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.7 / 77
p0 −60.57 ± 2.697
100
50
0
−50
−100
−150
pull
Entries 78
Mean 123.1
Std Dev 107.2
2
1
0
−1
−2
−3

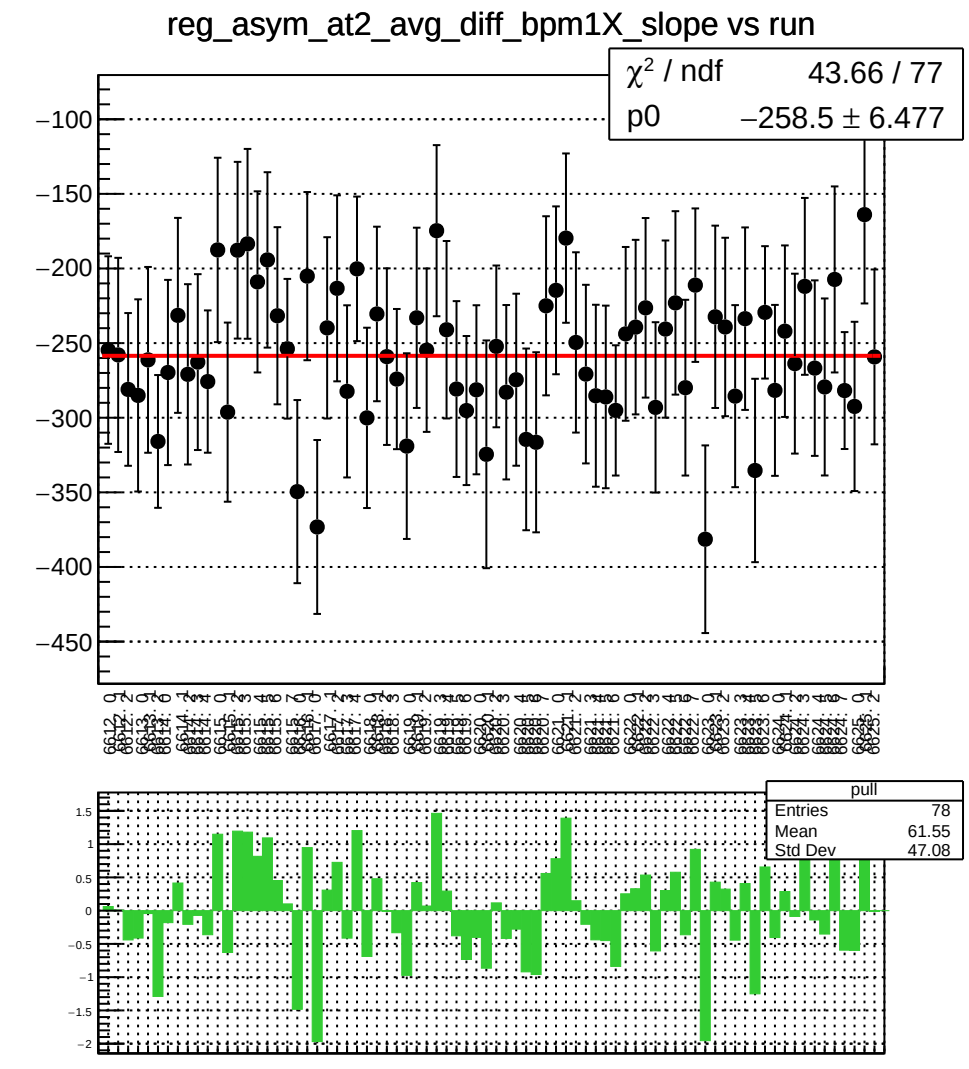

pull1D
Entries 78
Mean −0.01845
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

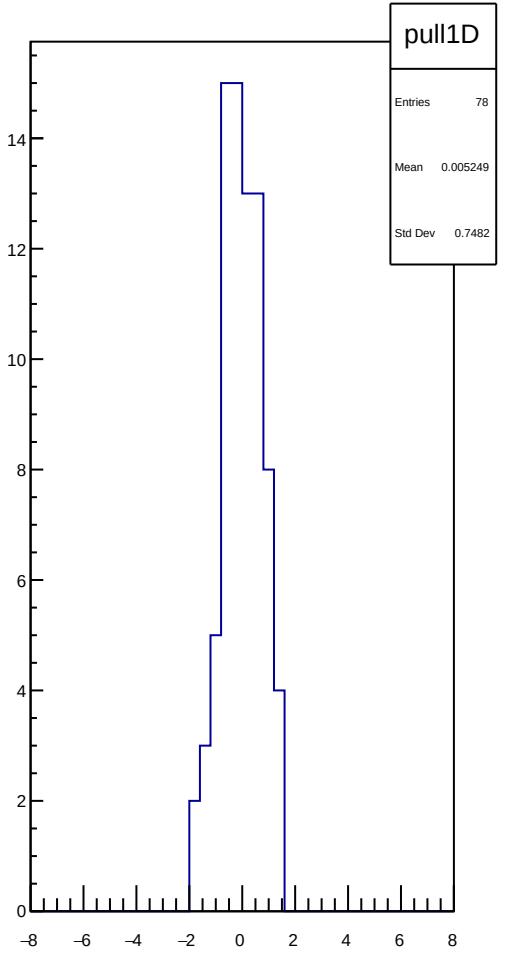

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.2 / 77
p0 6.476 ± 2.092
150
100
50
0
−50
pull
Entries 78
Mean 47.61
Std Dev 52.38
4
3
2
1
0
−1
−2

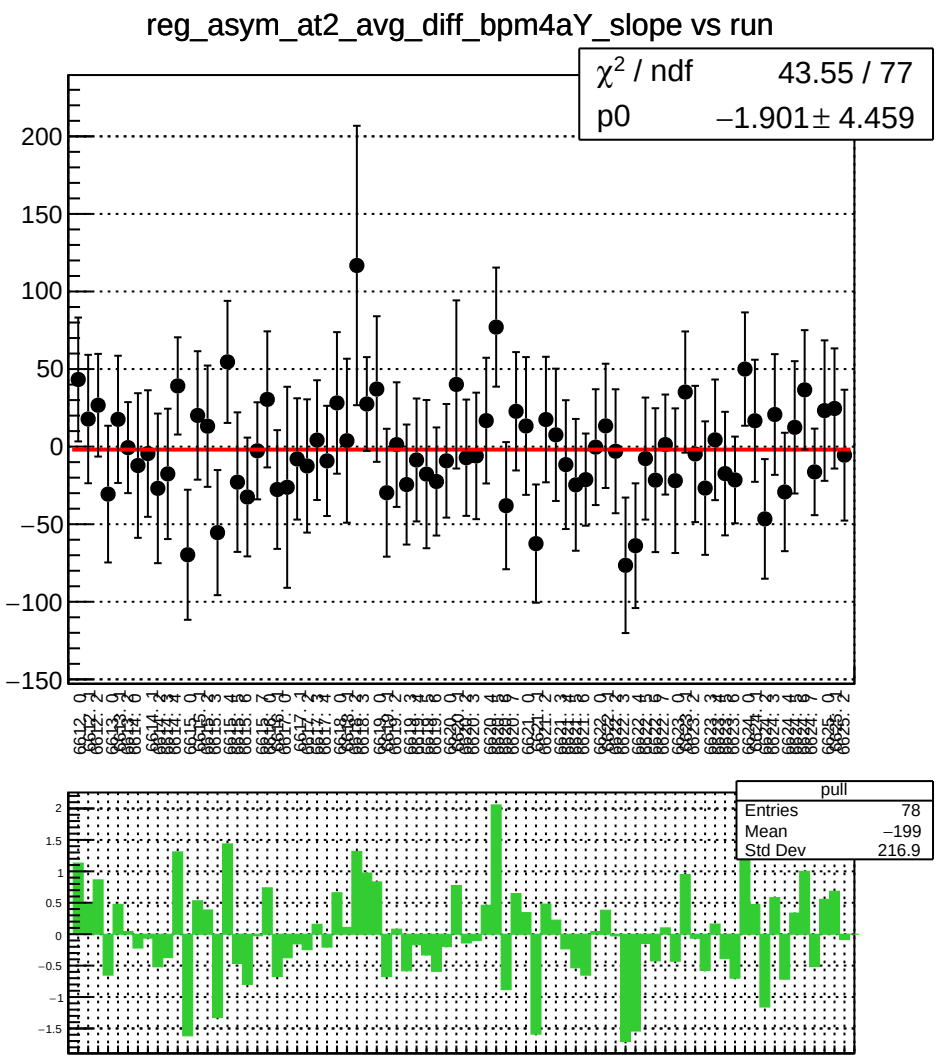

pull1D
Entries 78
Mean 0.02466
Std Dev 1.172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

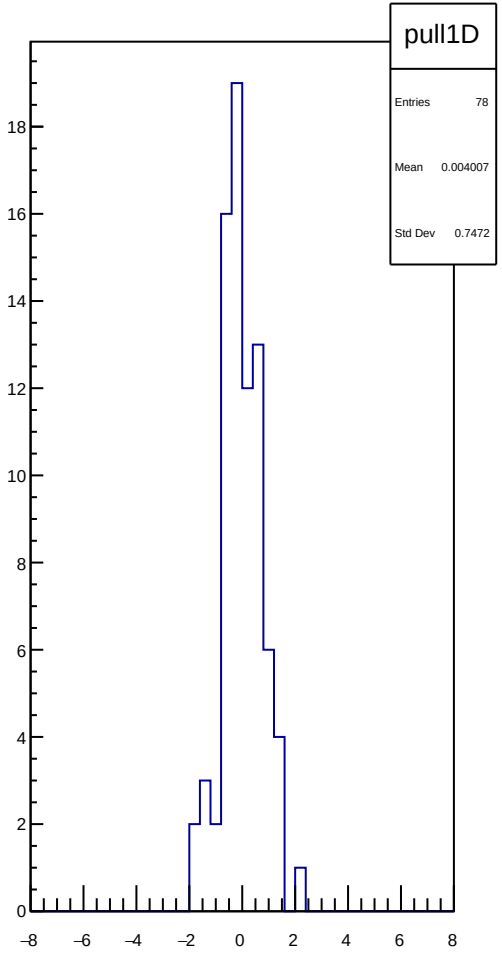

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 183.5 / 77
p0 28.53 ± 0.1083
pull
Entries 78
Mean −644
Std Dev 679.9

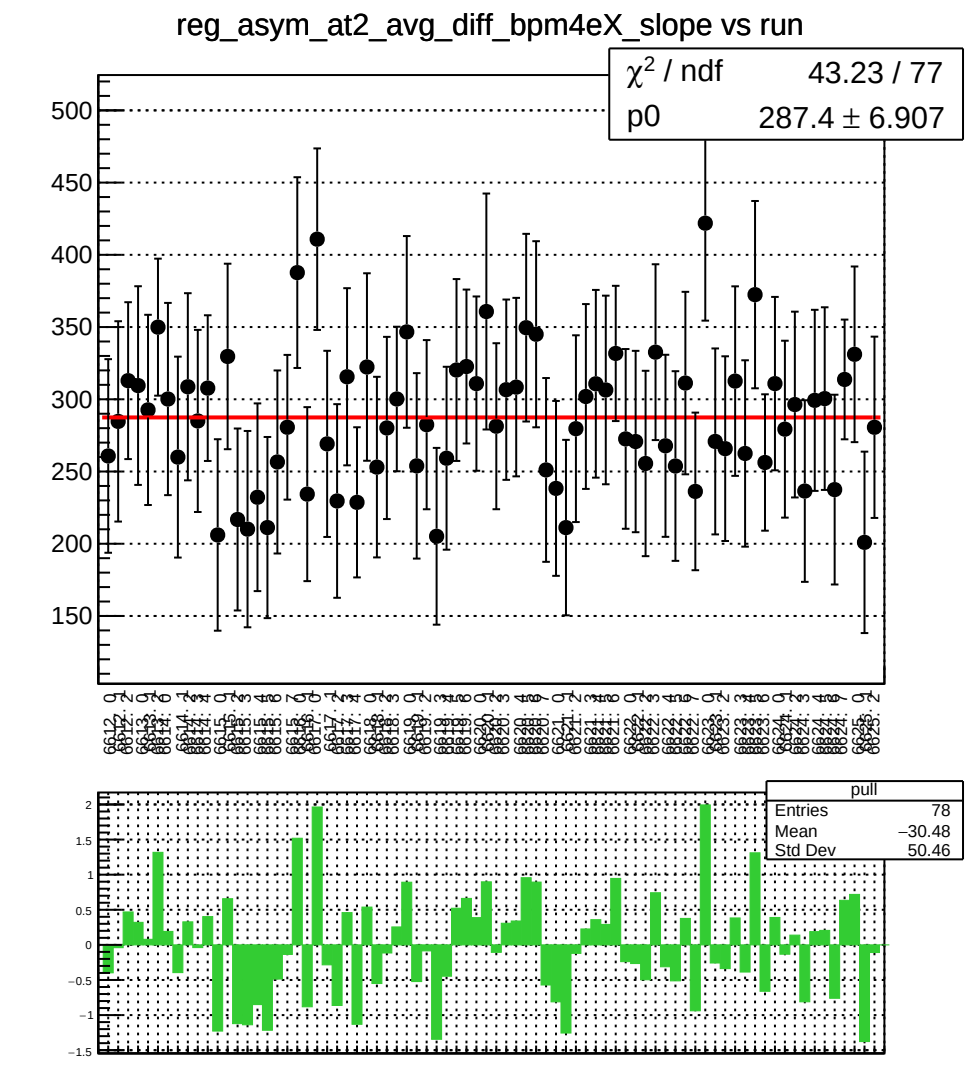

pull1D
Entries 78
Mean 0.01474
Std Dev 1.534

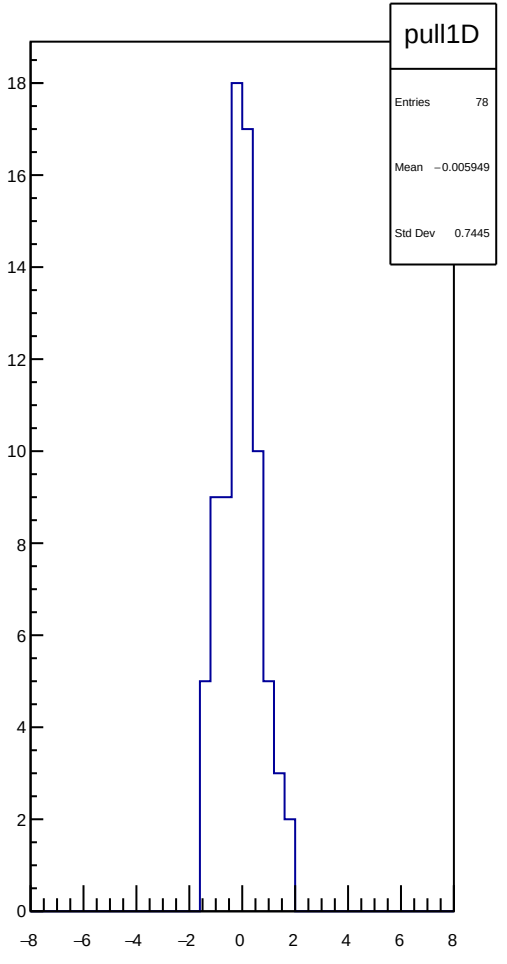

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 43.66 / 77
p0 −258.5 ± 6.477
pull
Entries 78
Mean 61.55
Std Dev 47.08

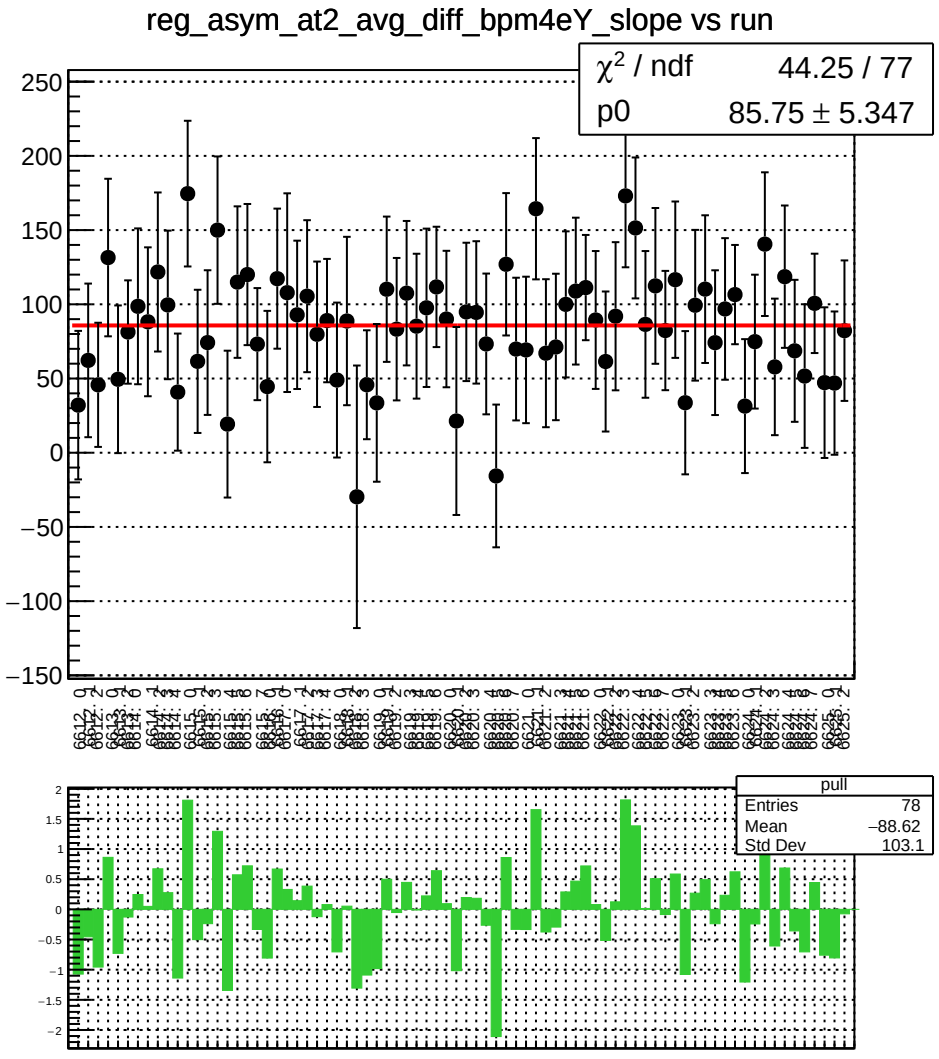

pull1D
Entries 78
Mean 0.005249
Std Dev 0.7482

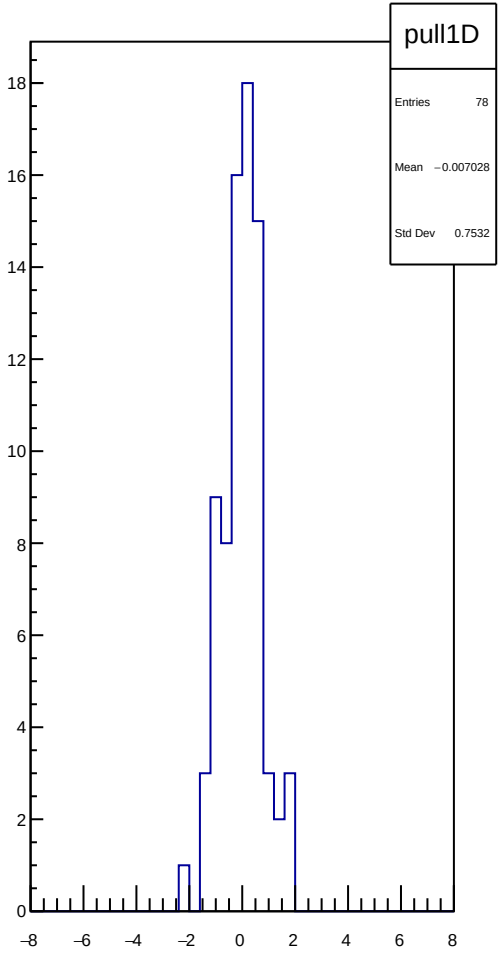

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.55 / 77
p0 −1.901 ± 4.459
pull
Entries 78
Mean −199
Std Dev 216.9

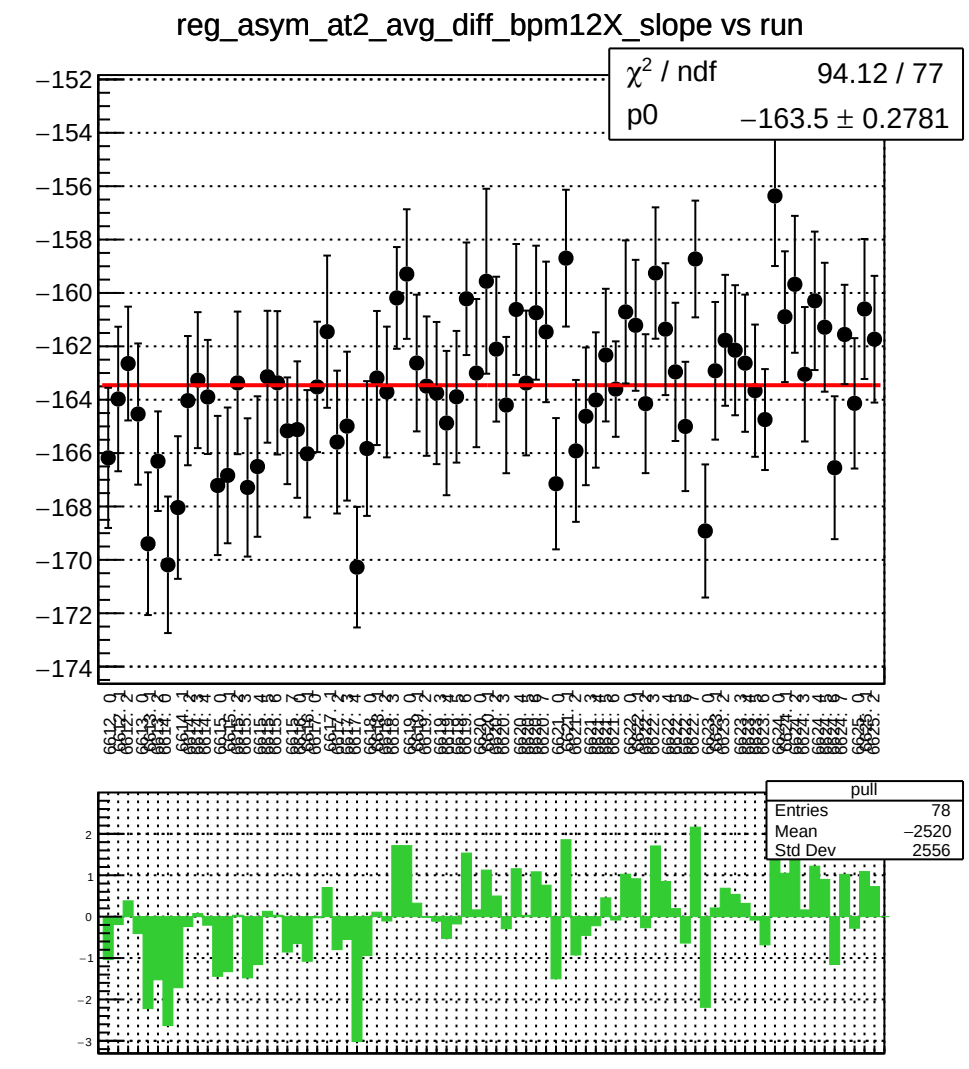

pull1D
Entries 78
Mean 0.004007
Std Dev 0.7472

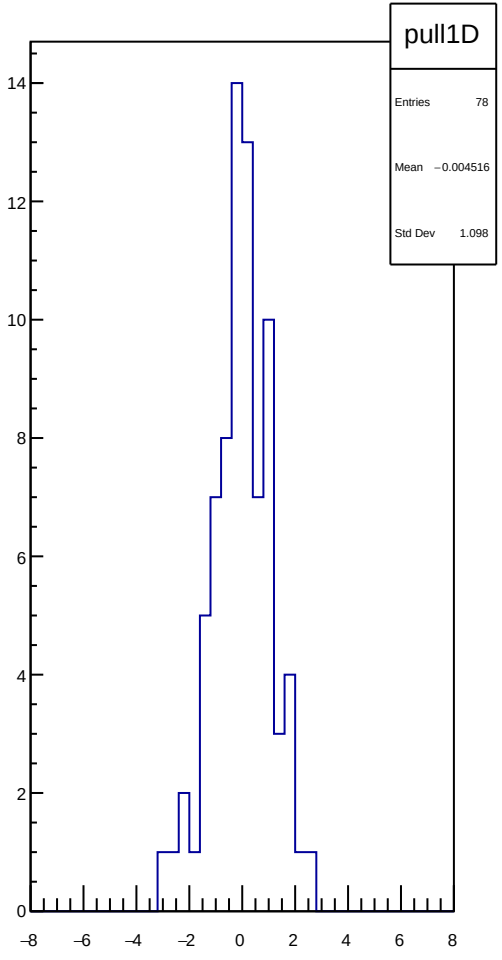

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 43.23 / 77
p0 287.4 ± 6.907
pull
Entries 78
Mean −30.48
Std Dev 50.46

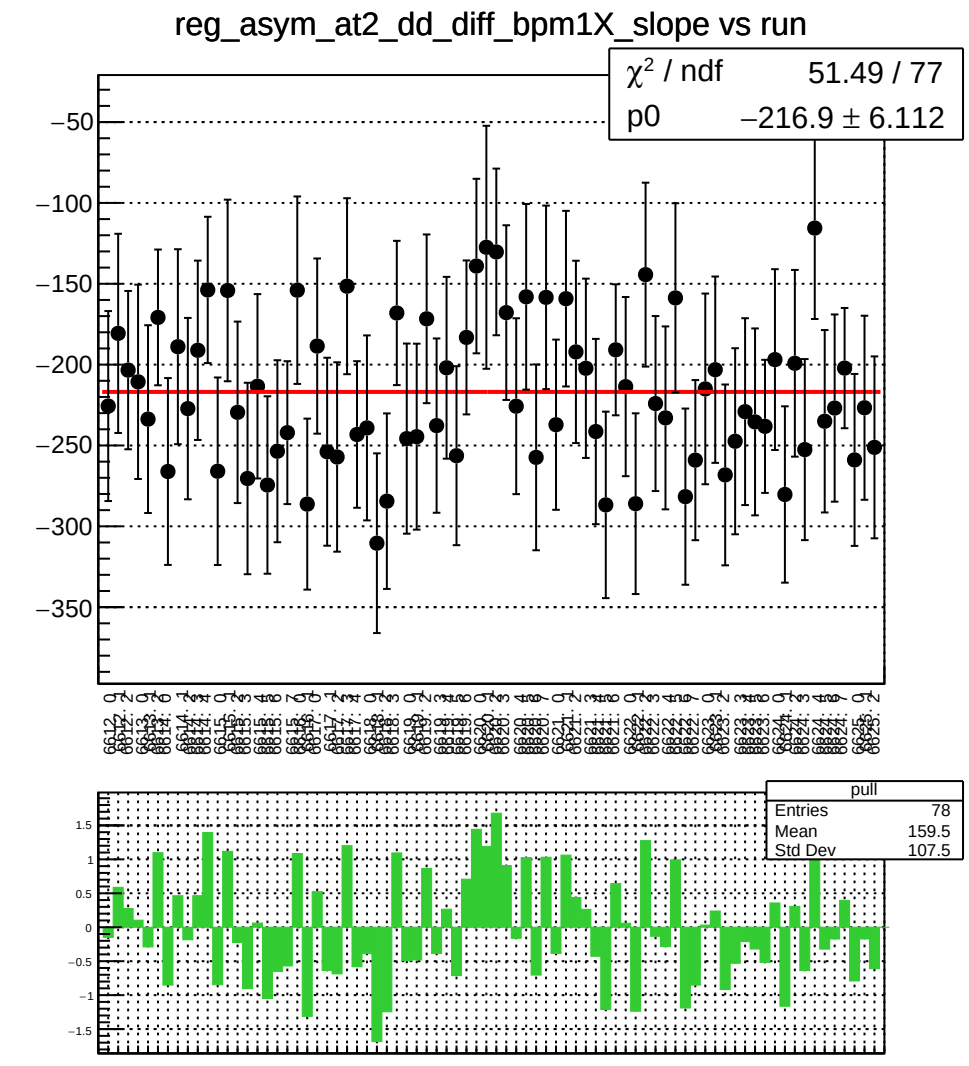

pull1D
Entries 78
Mean −0.005949
Std Dev 0.7445

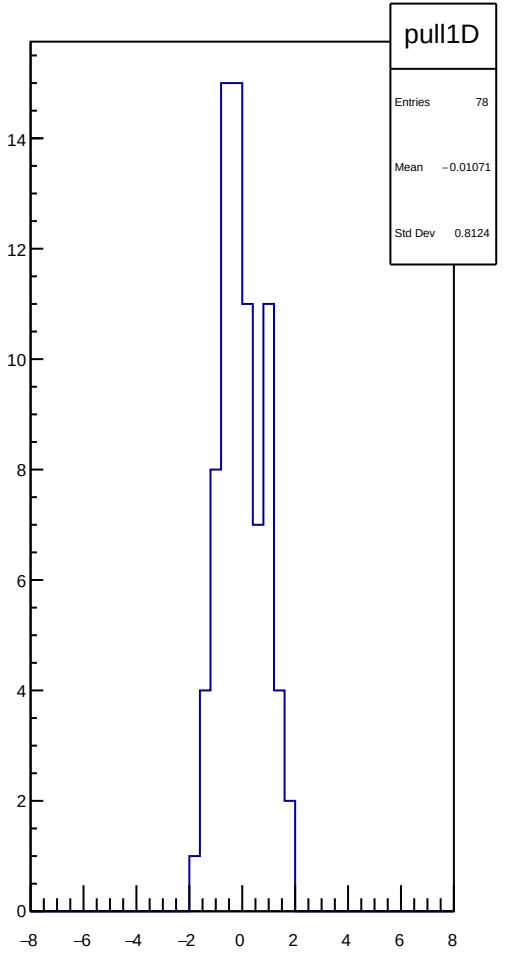

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.25 / 77
p0 85.75 ± 5.347
pull
Entries 78
Mean −88.62
Std Dev 103.1

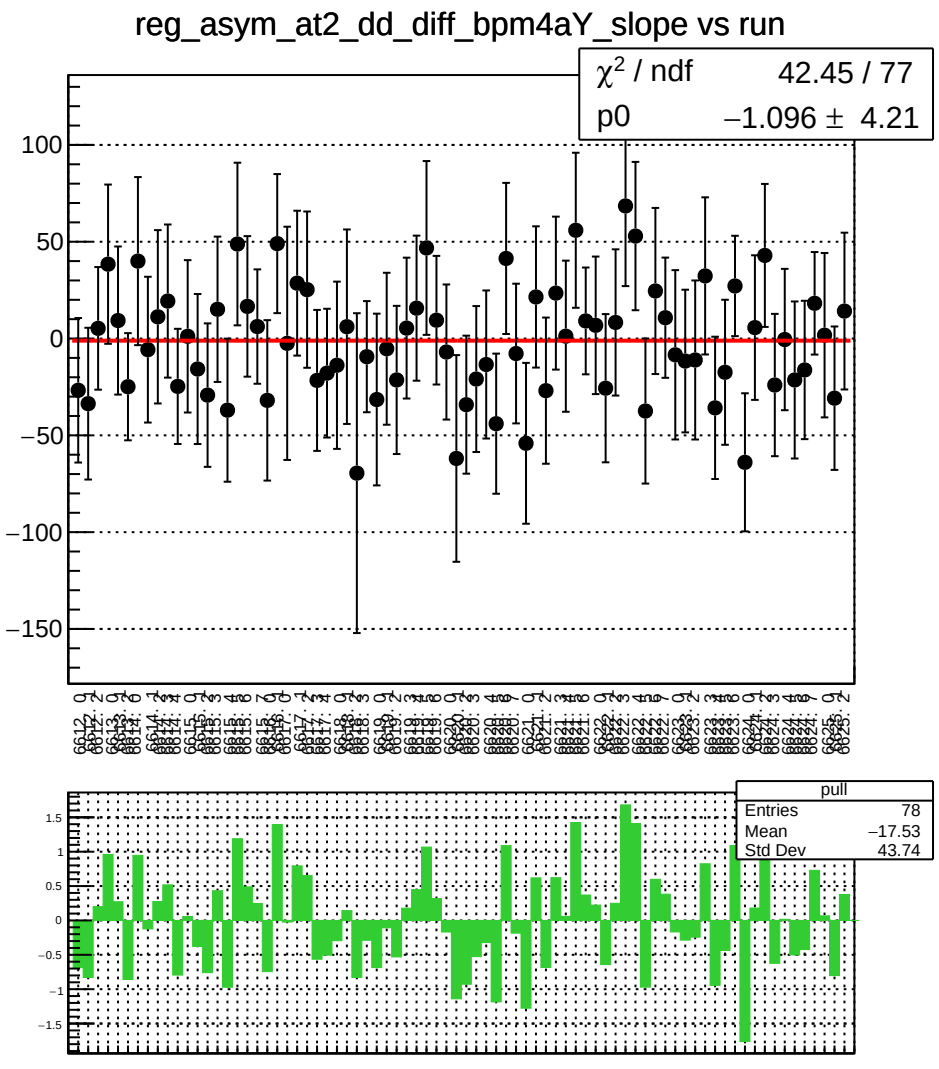

pull1D
Entries 78
Mean −0.007028
Std Dev 0.7532

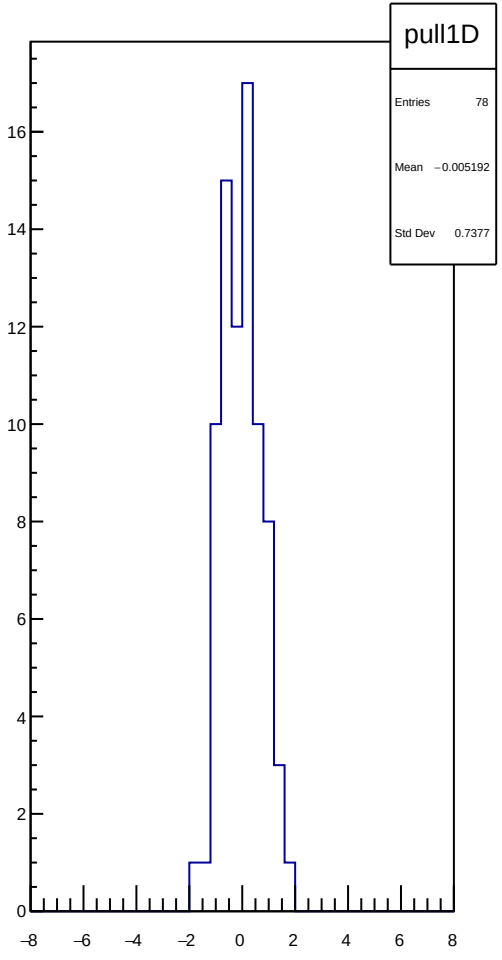

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 94.12 / 77
p0 −163.5 ± 0.2781
pull
Entries 78
Mean −2520
Std Dev 2556

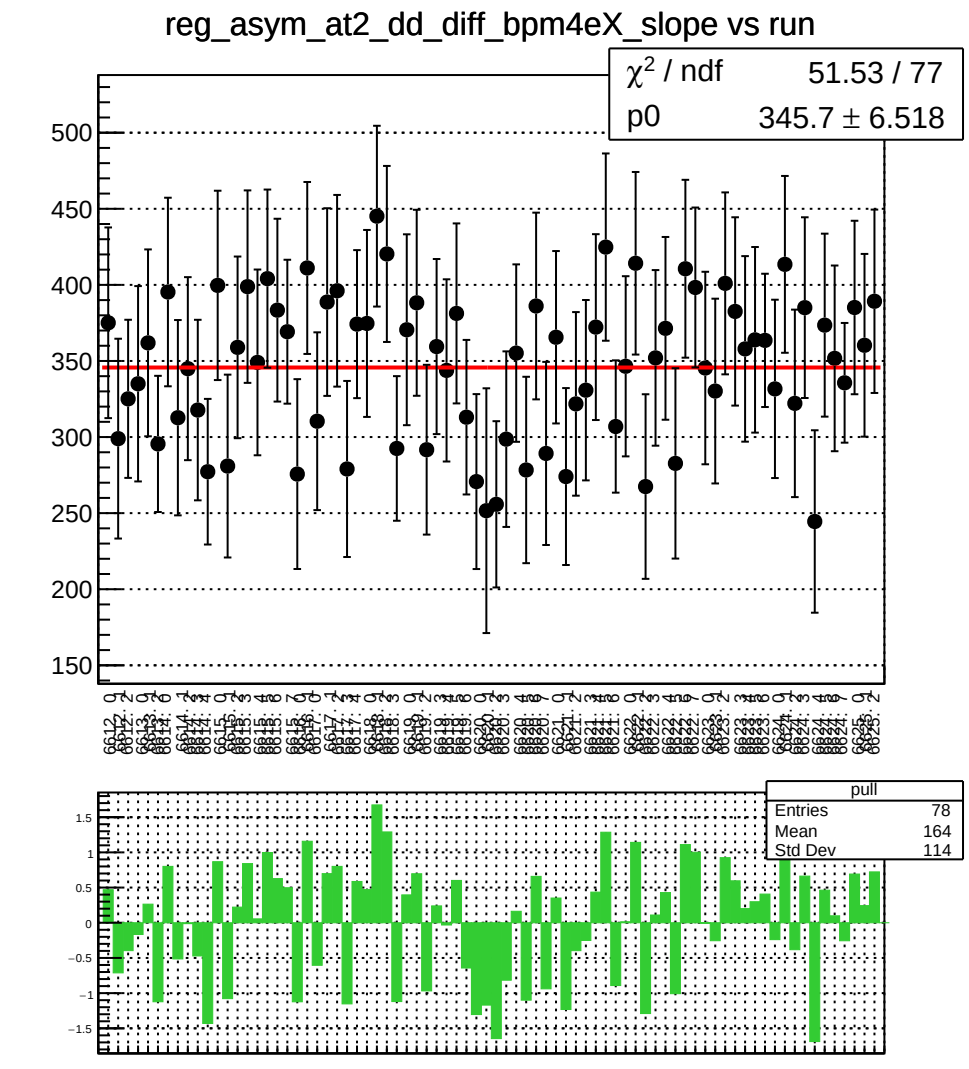

pull1D
Entries 78
Mean −0.004516
Std Dev 1.098

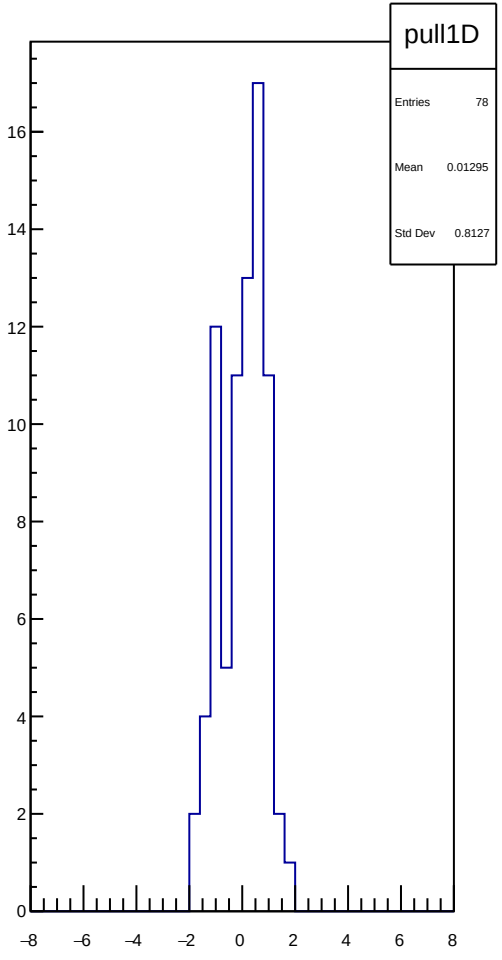

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 51.49 / 77
p0 −216.9 ± 6.112
pull
Entries 78
Mean 159.5
Std Dev 107.5

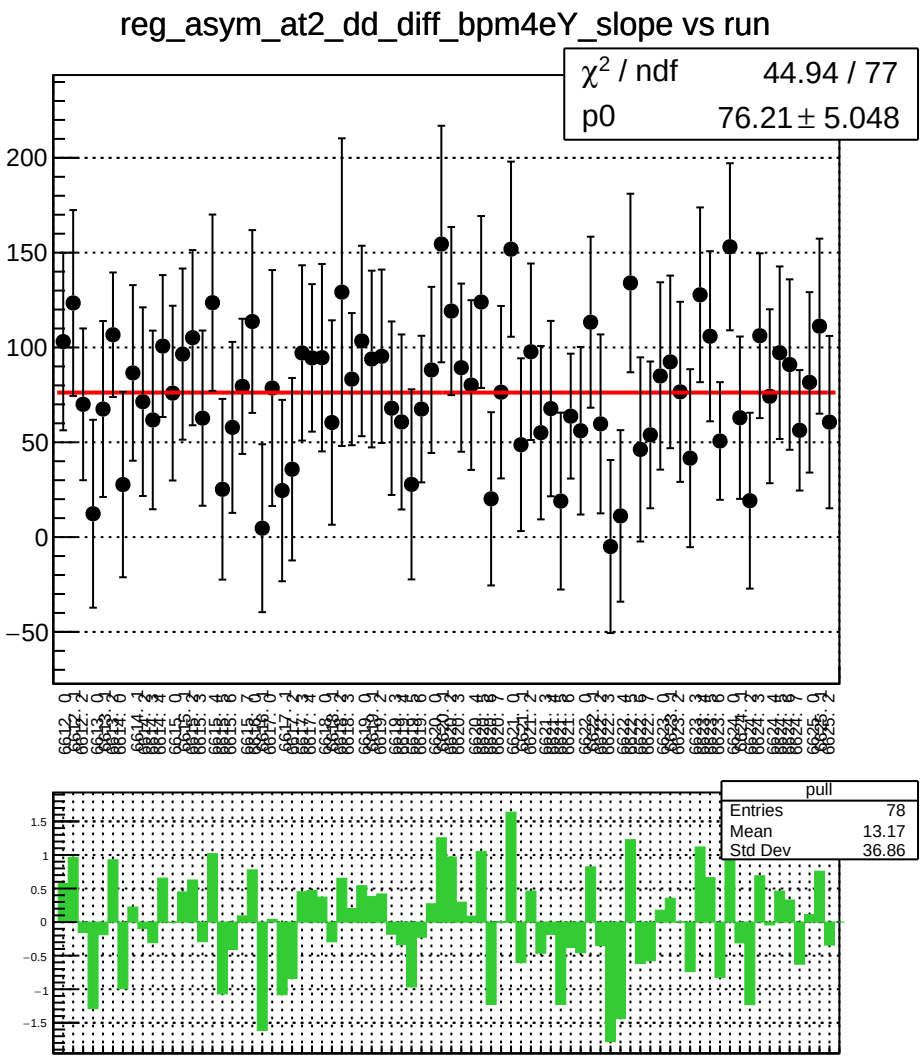

pull1D
Entries 78
Mean −0.01071
Std Dev 0.8124

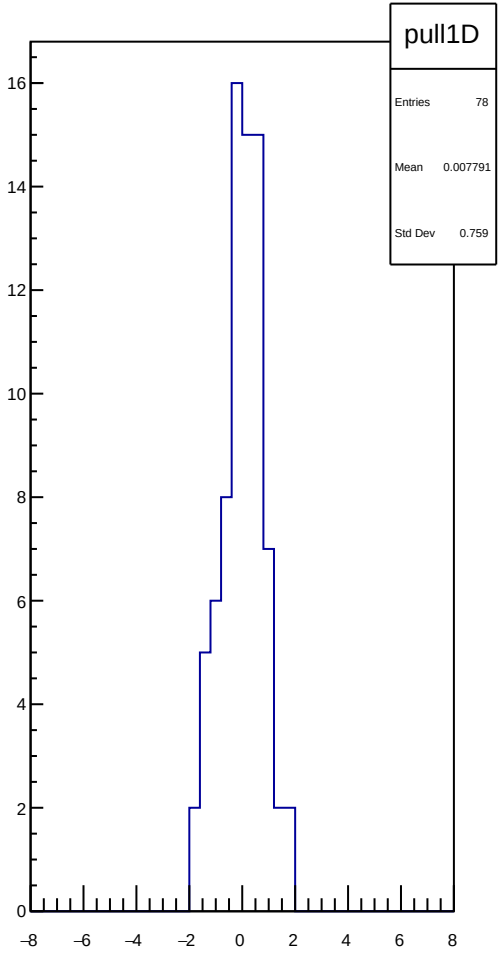

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.45 / 77
p0 −1.096 ± 4.21
pull
Entries 78
Mean −17.53
Std Dev 43.74

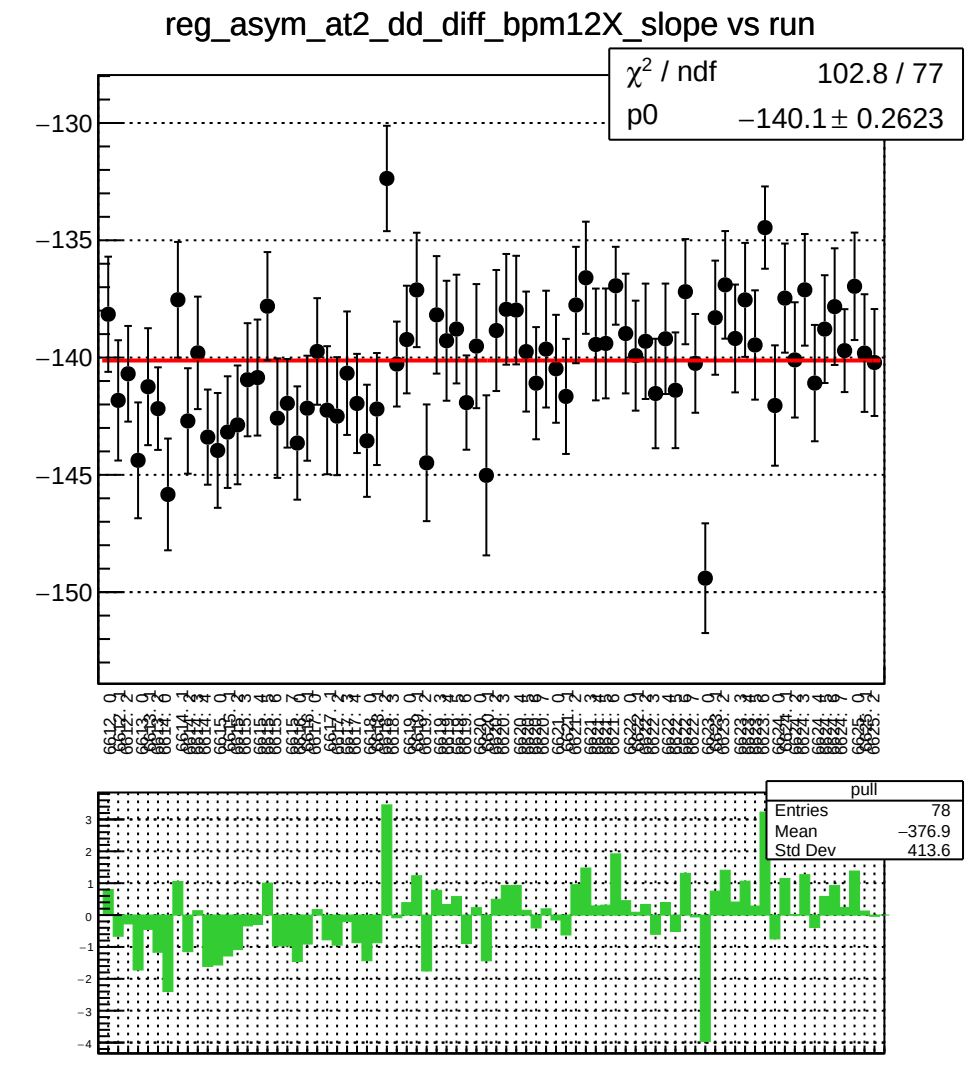

pull1D
Entries 78
Mean −0.005192
Std Dev 0.7377

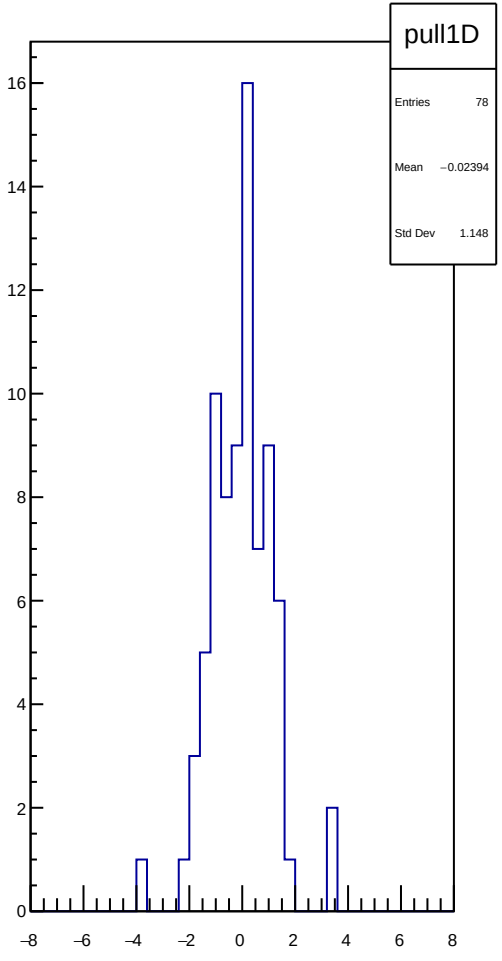

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.53 / 77
p0 345.7 ± 6.518
pull
Entries 78
Mean 164
Std Dev 114

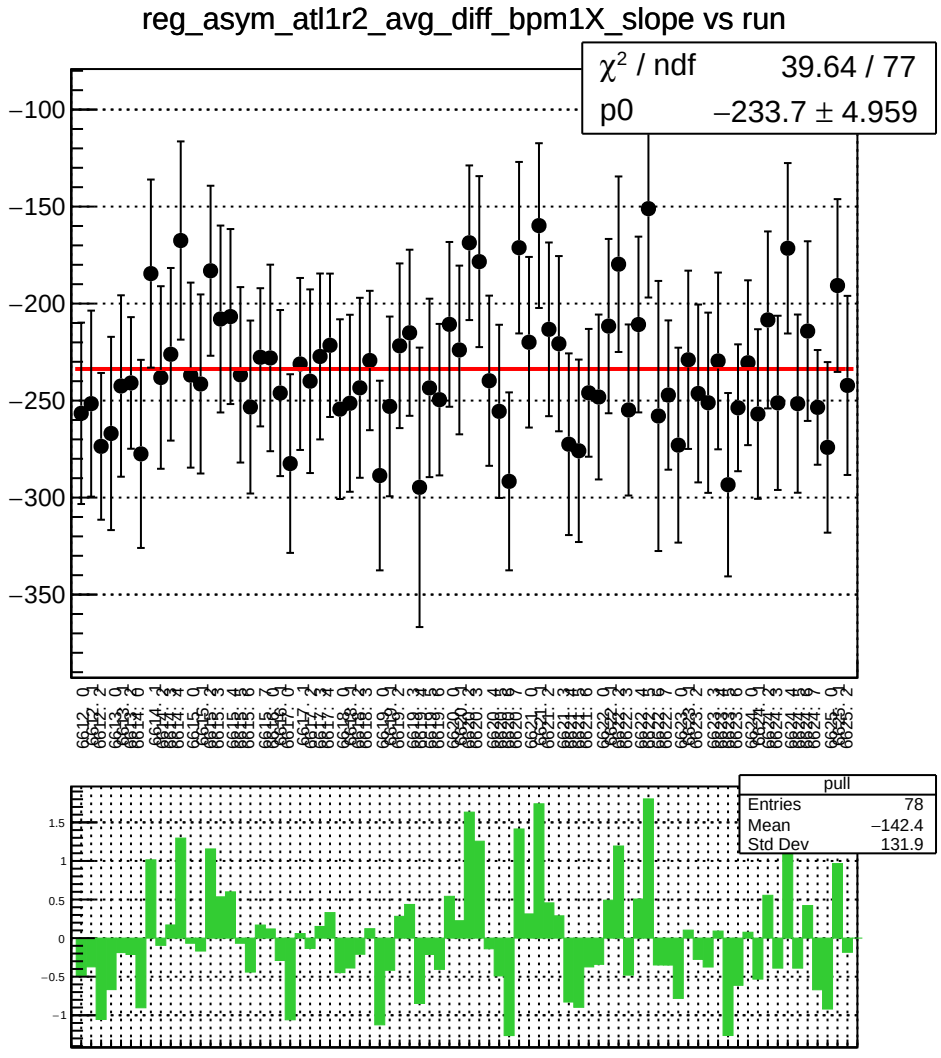

pull1D
Entries 78
Mean 0.01295
Std Dev 0.8127

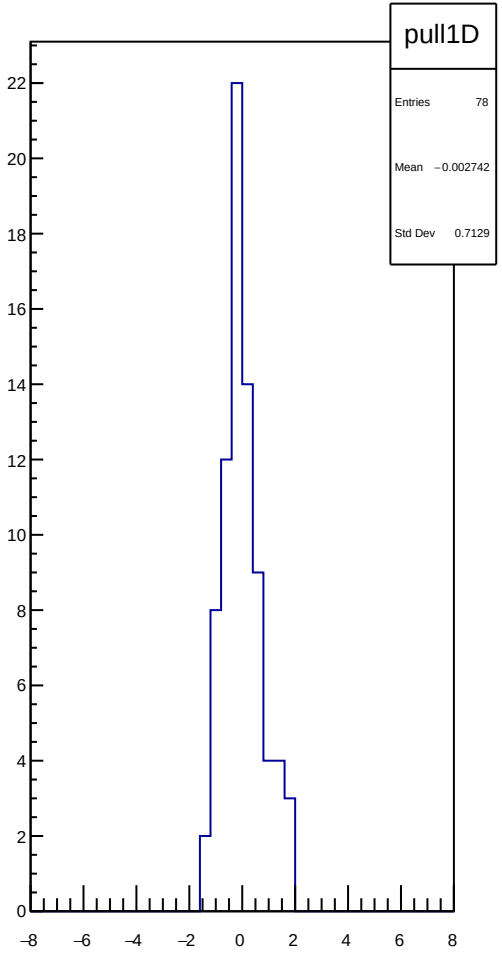

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.94 / 77
p0 76.21 ± 5.048
pull
Entries 78
Mean 13.17
Std Dev 36.86

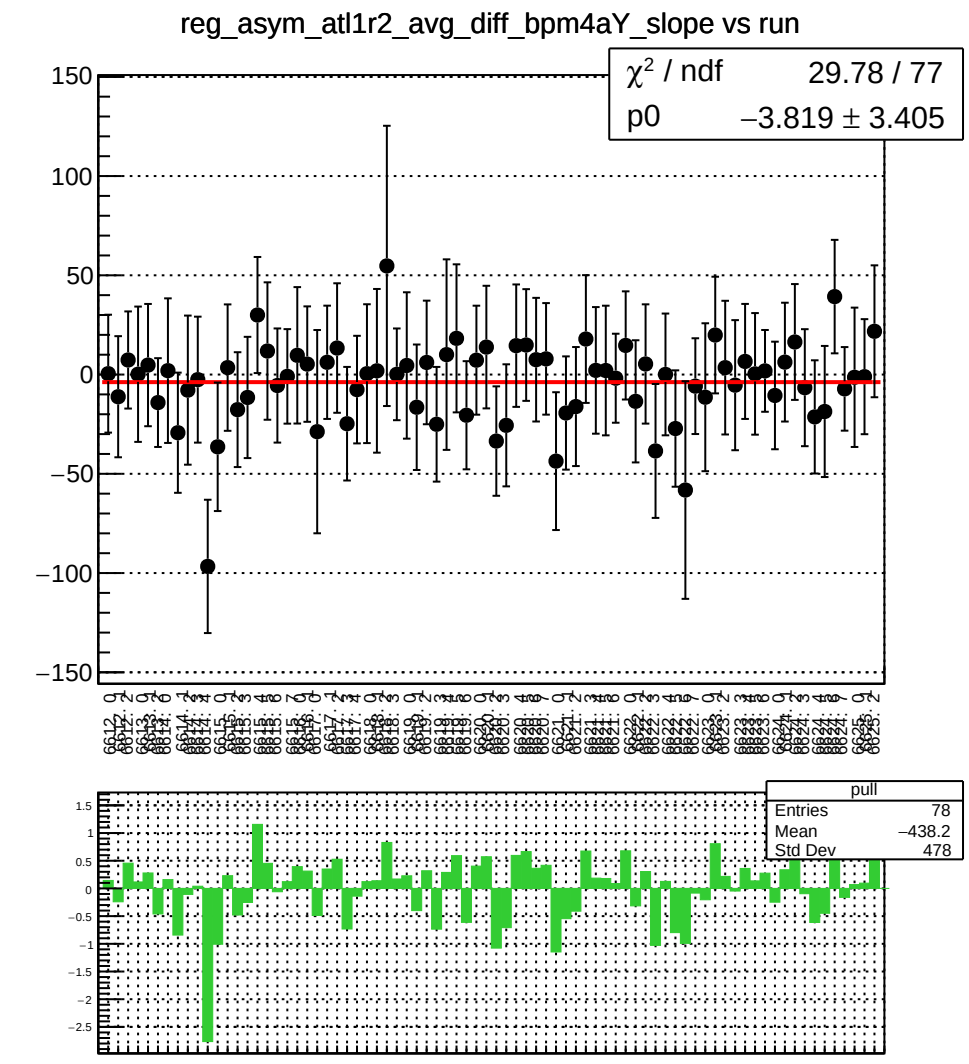

pull1D
Entries 78
Mean 0.007791
Std Dev 0.759

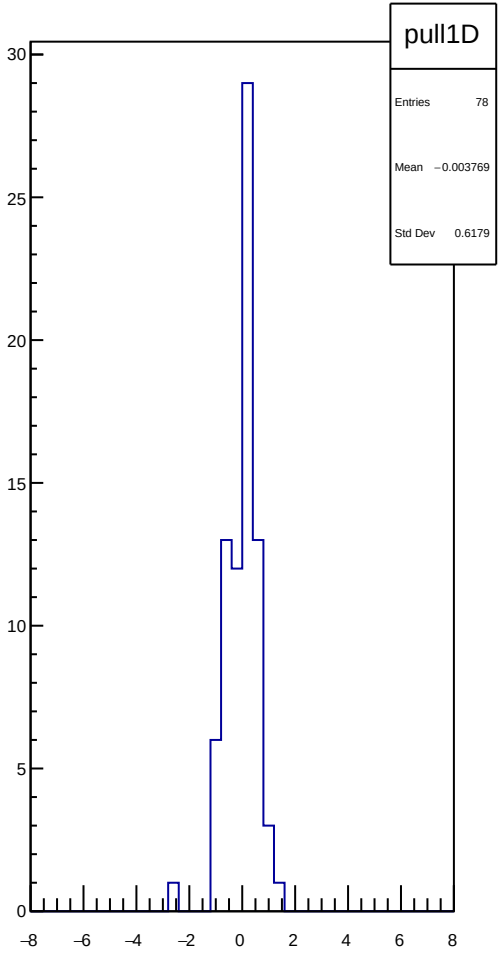

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 102.8 / 77
p0 −140.1 ± 0.2623
pull
Entries 78
Mean −376.9
Std Dev 413.6

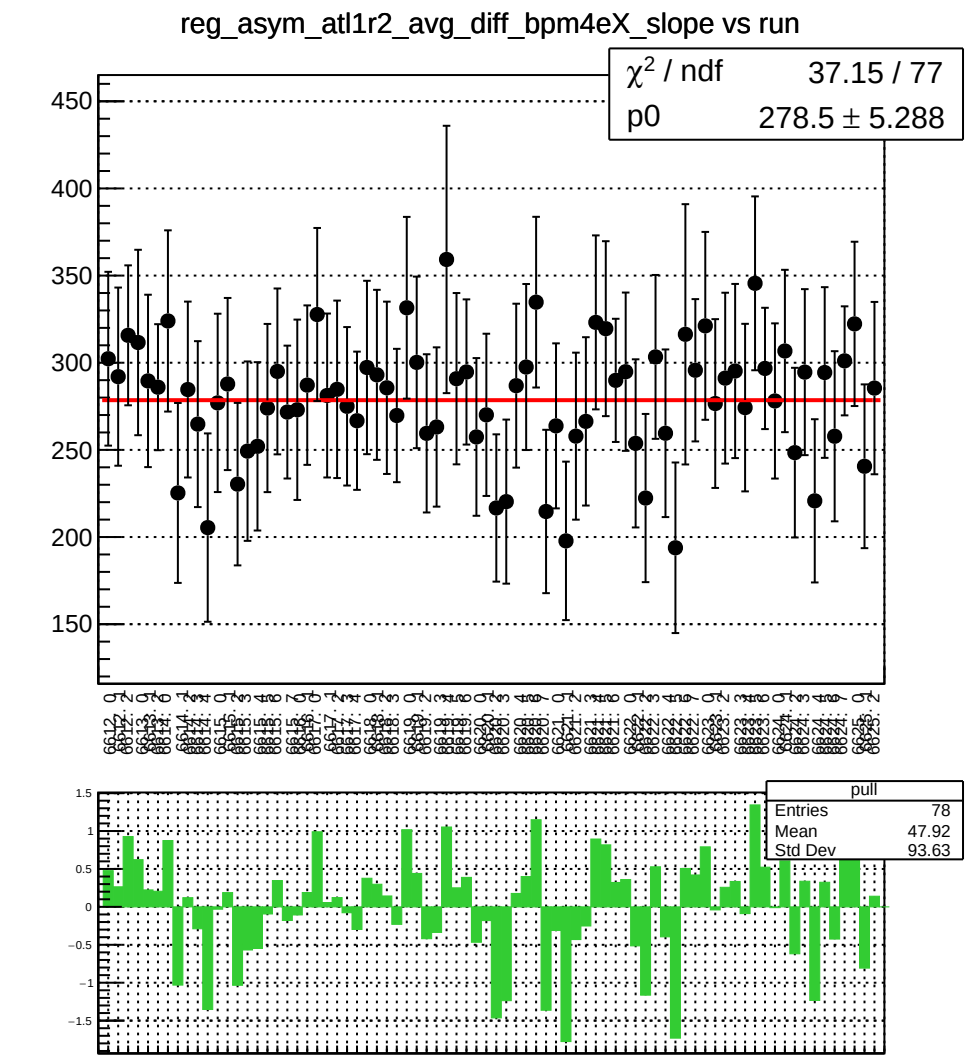

pull1D
Entries 78
Mean −0.02394
Std Dev 1.148

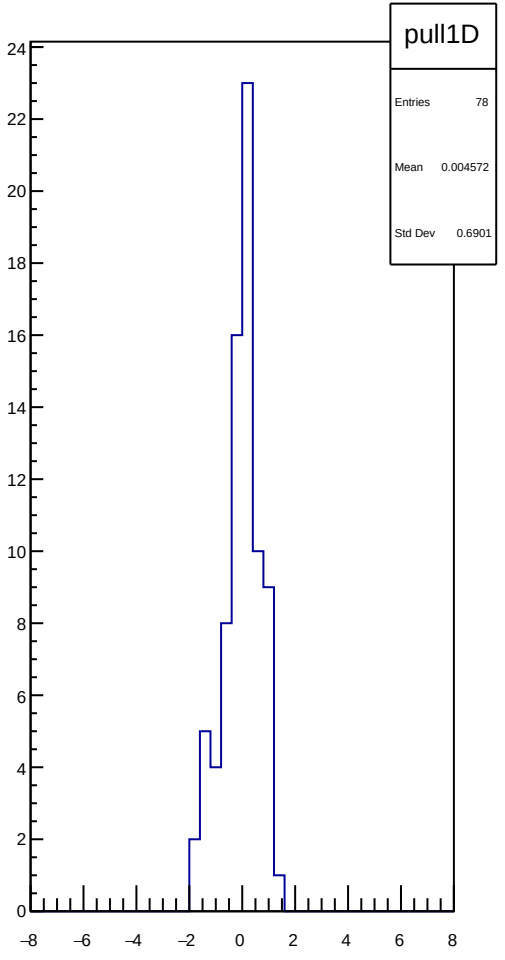

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 39.64 / 77
p0 −233.7 ± 4.959
pull
Entries 78
Mean −142.4
Std Dev 131.9

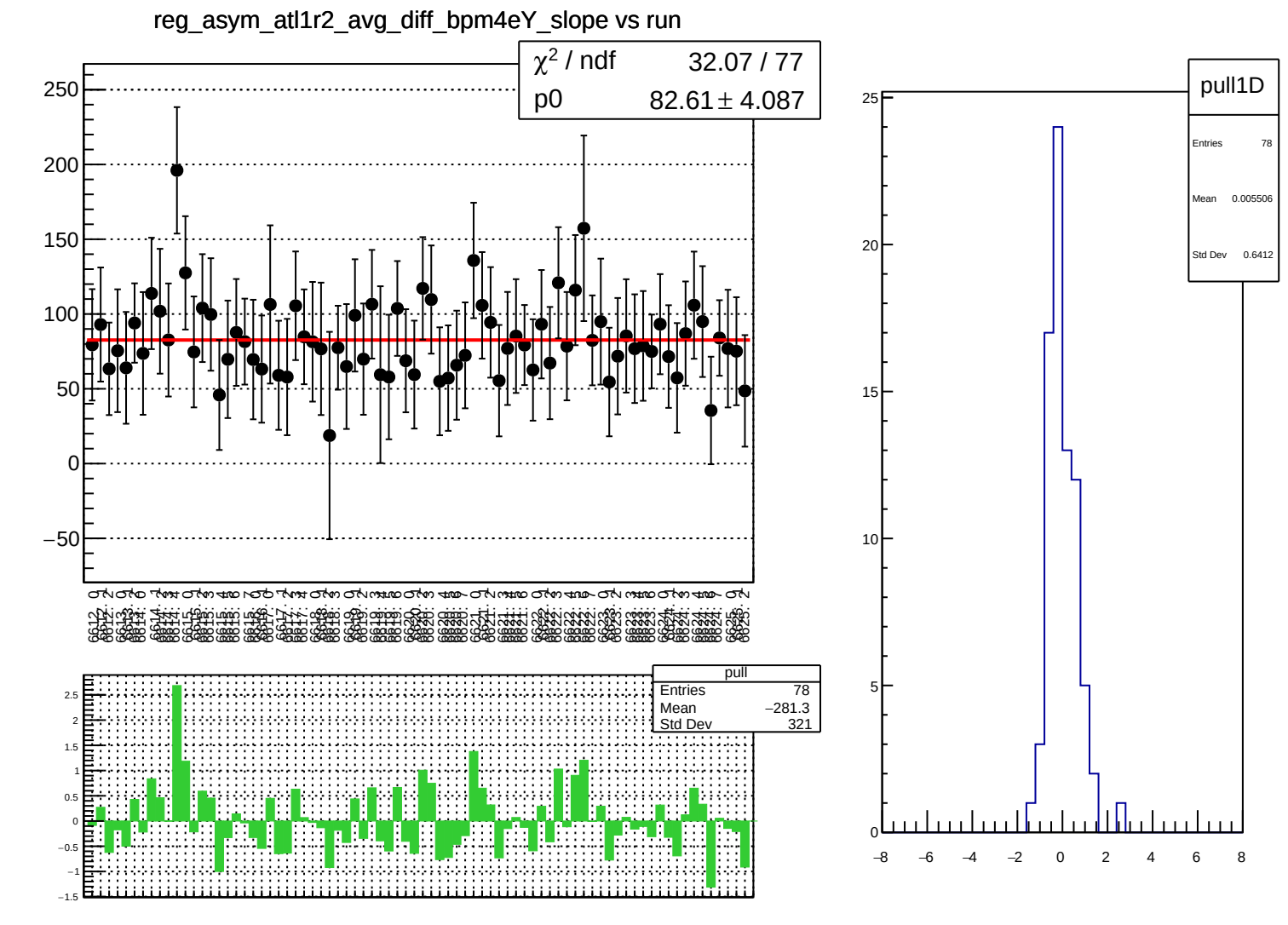

pull1D
Entries 78
Mean −0.002742
Std Dev 0.7129

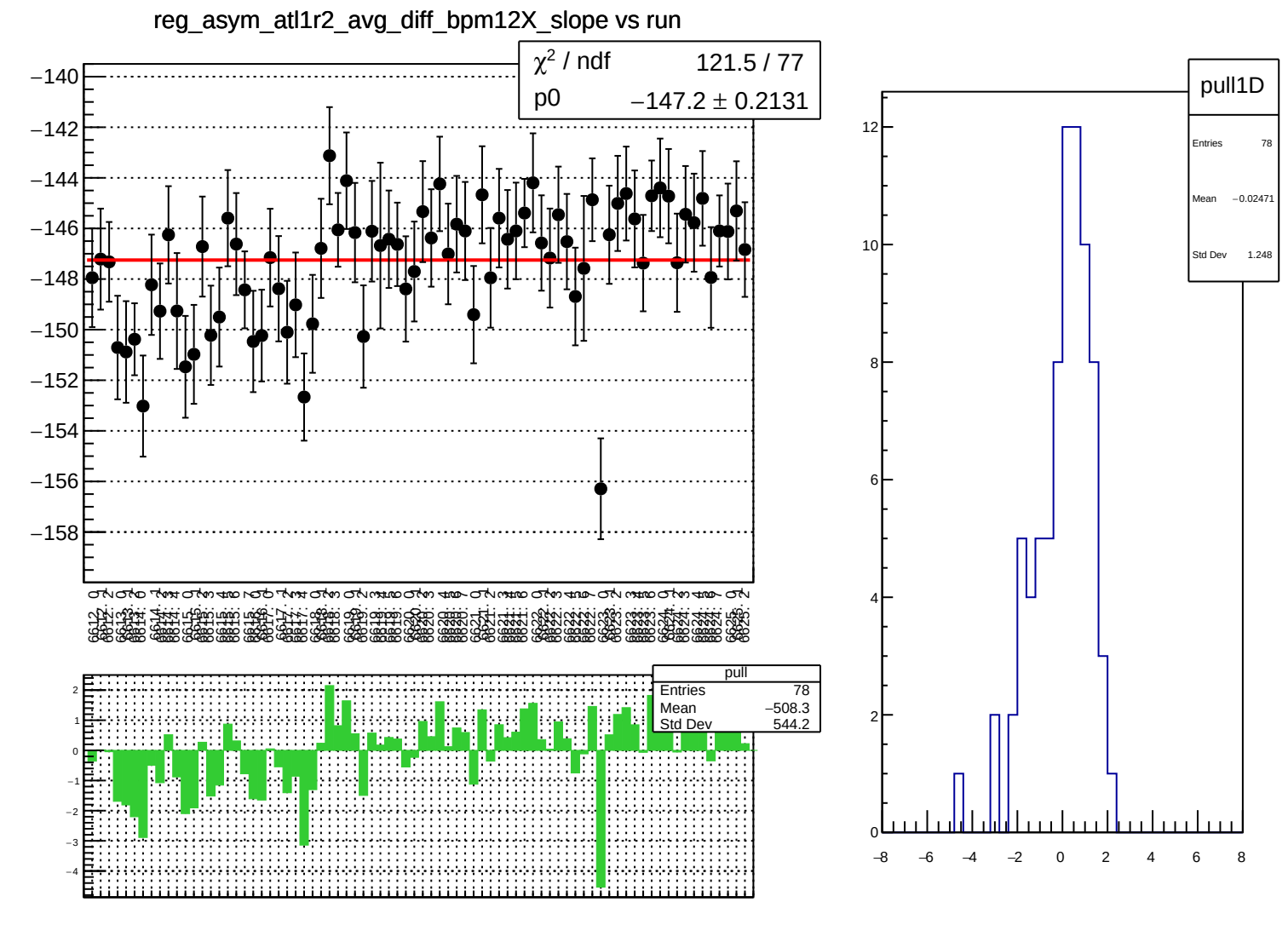

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.78 / 77
p0 −3.819 ± 3.405
pull
Entries 78
Mean −438.2
Std Dev 478

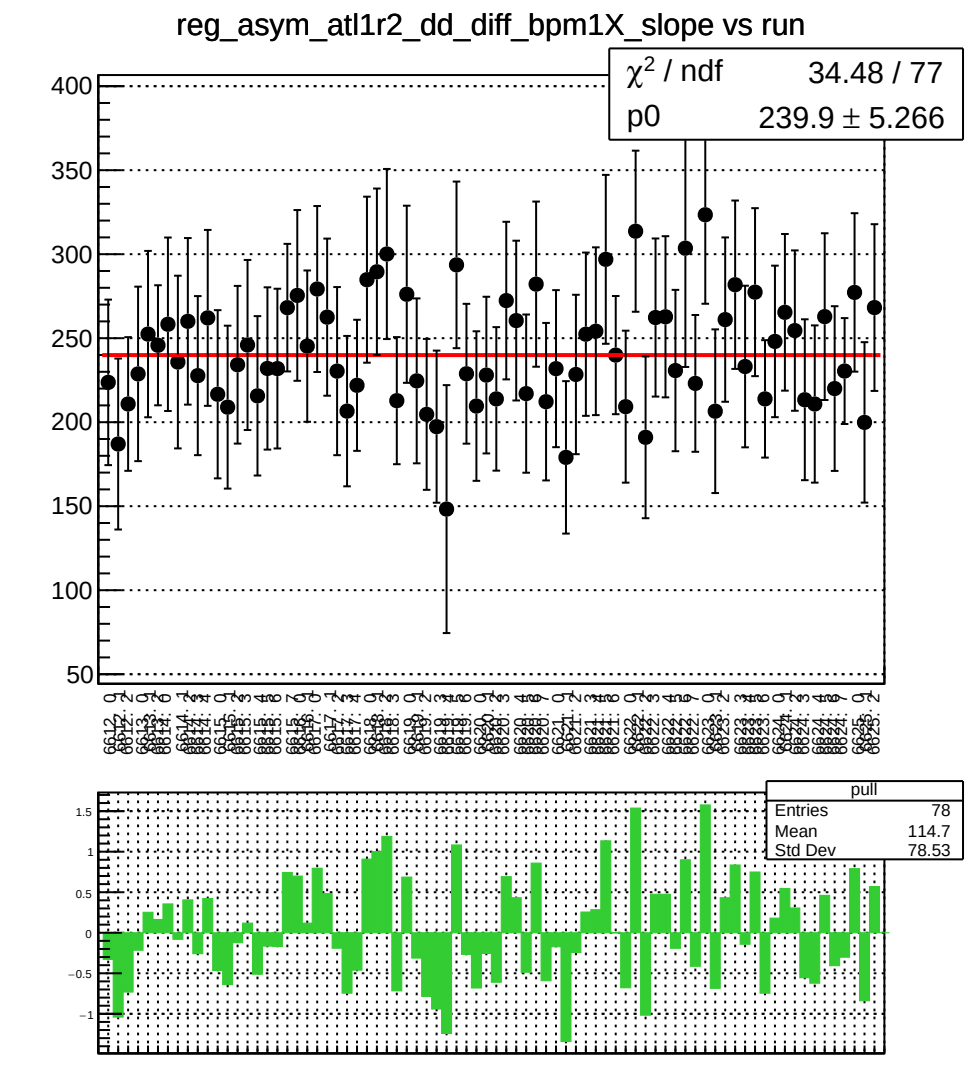

pull1D
Entries 78
Mean −0.003769
Std Dev 0.6179

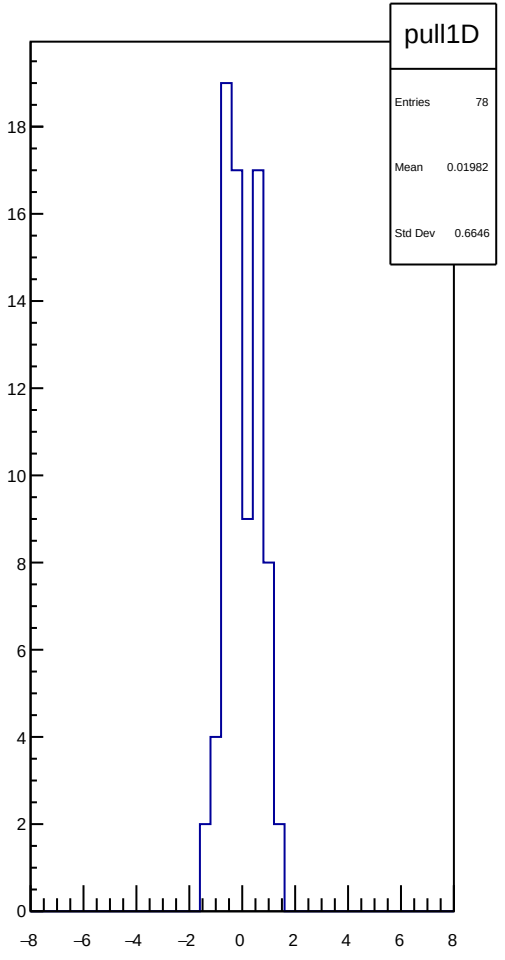

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.15 / 77
p0 278.5 ± 5.288
pull
Entries 78
Mean 47.92
Std Dev 93.63

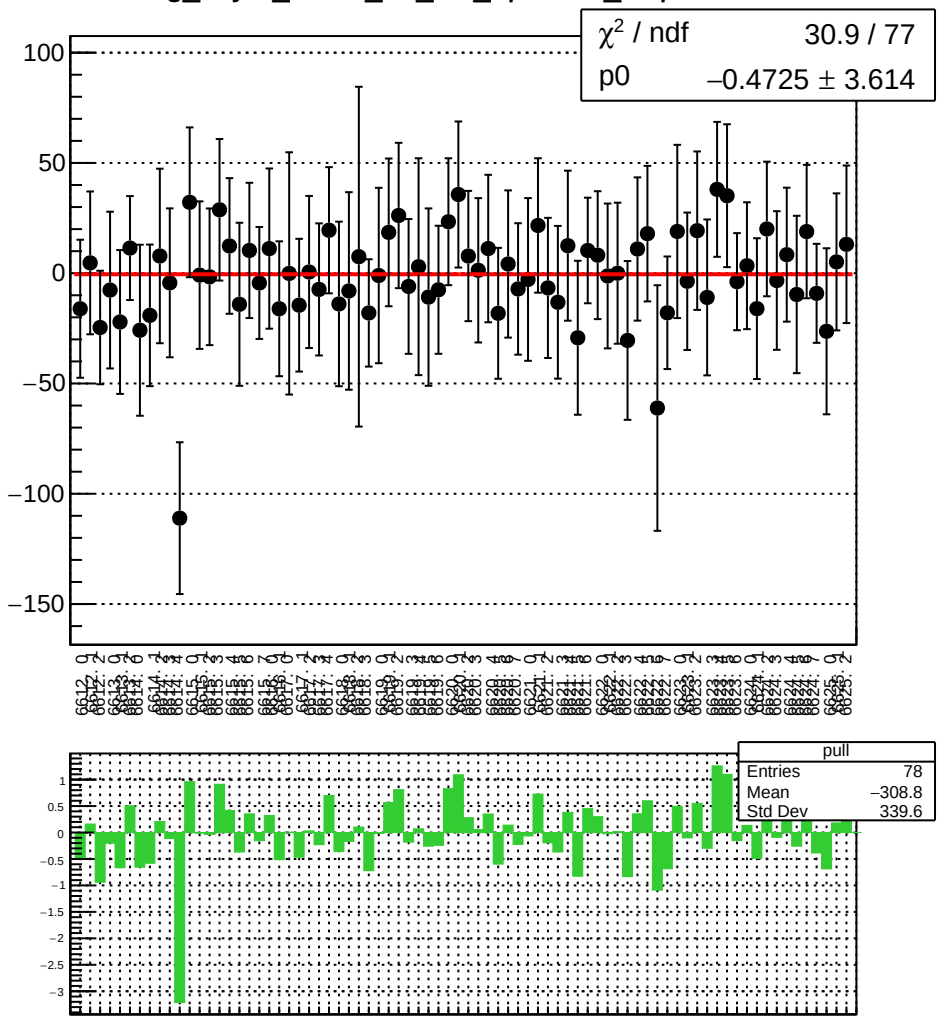

pull1D
Entries 78
Mean 0.004572
Std Dev 0.6901

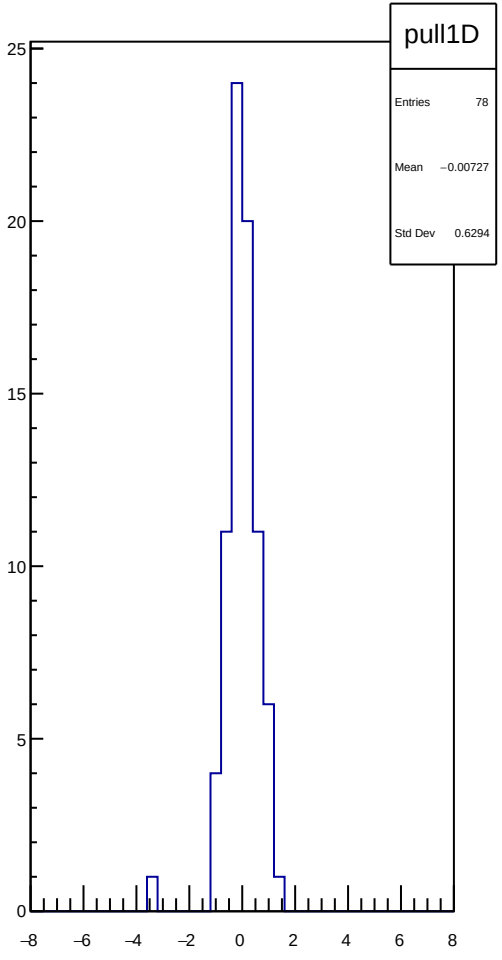

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.07 / 77
p0 82.61 ± 4.087
pull
Entries 78
Mean −281.3
Std Dev 321
pull1D
Entries 78
Mean 0.005506
Std Dev 0.6412

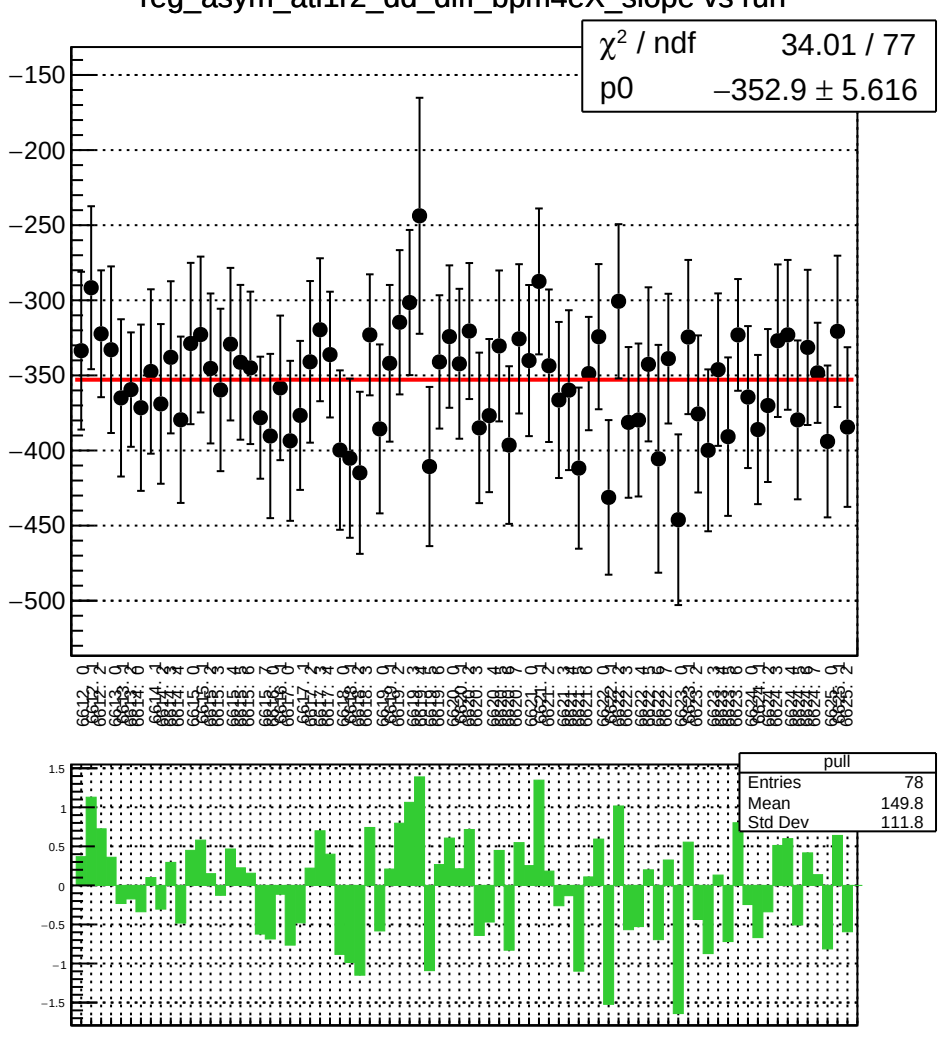

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 121.5 / 77
p0 −147.2 ± 0.2131
pull
Entries 78
Mean −508.3
Std Dev 544.2
pull1D
Entries 78
Mean −0.02471
Std Dev 1.248

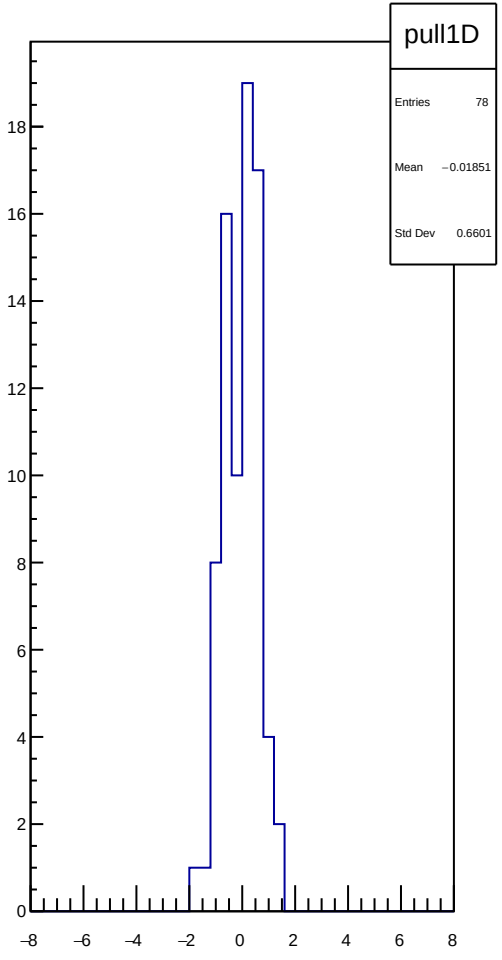

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 34.48 / 77
p0 239.9 ± 5.266
pull
Entries 78
Mean 114.7
Std Dev 78.53

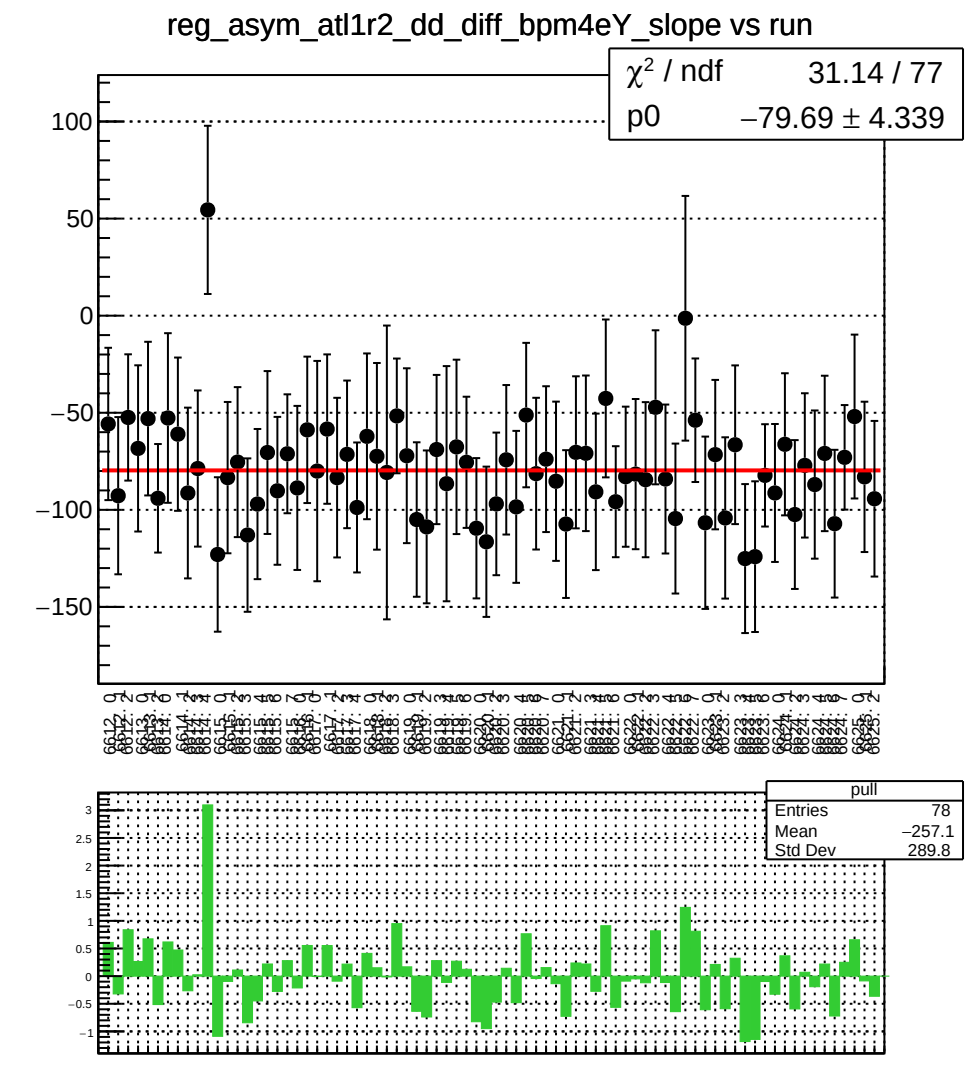

pull1D
Entries 78
Mean 0.01982
Std Dev 0.6646

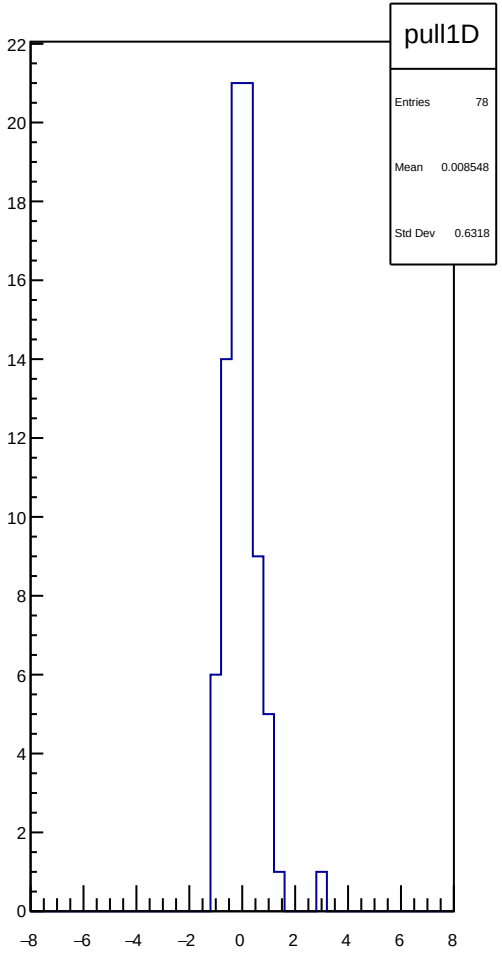

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.9 / 77
p0 −0.4725 ± 3.614
pull
Entries 78
Mean −308.8
Std Dev 339.6

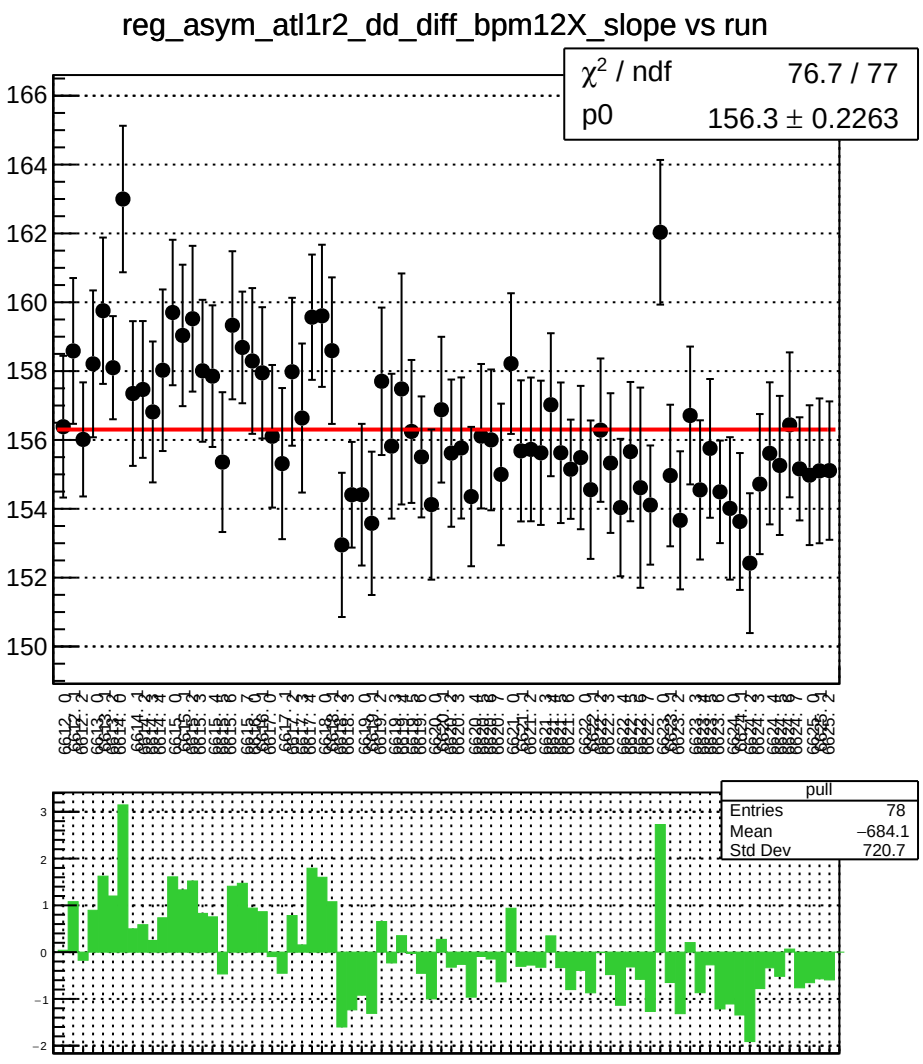

pull1D
Entries 78
Mean −0.00727
Std Dev 0.6294

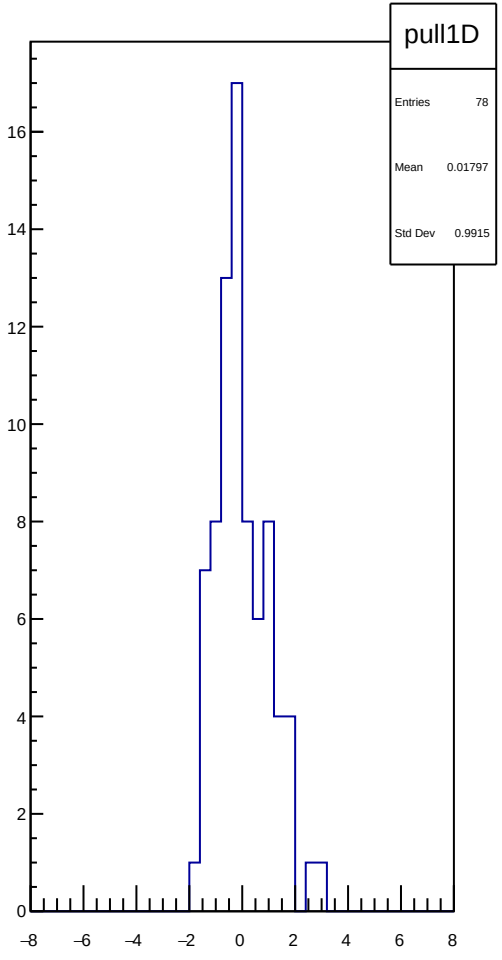

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.01 / 77
p0 −352.9 ± 5.616
pull
Entries 78
Mean 149.8
Std Dev 111.8

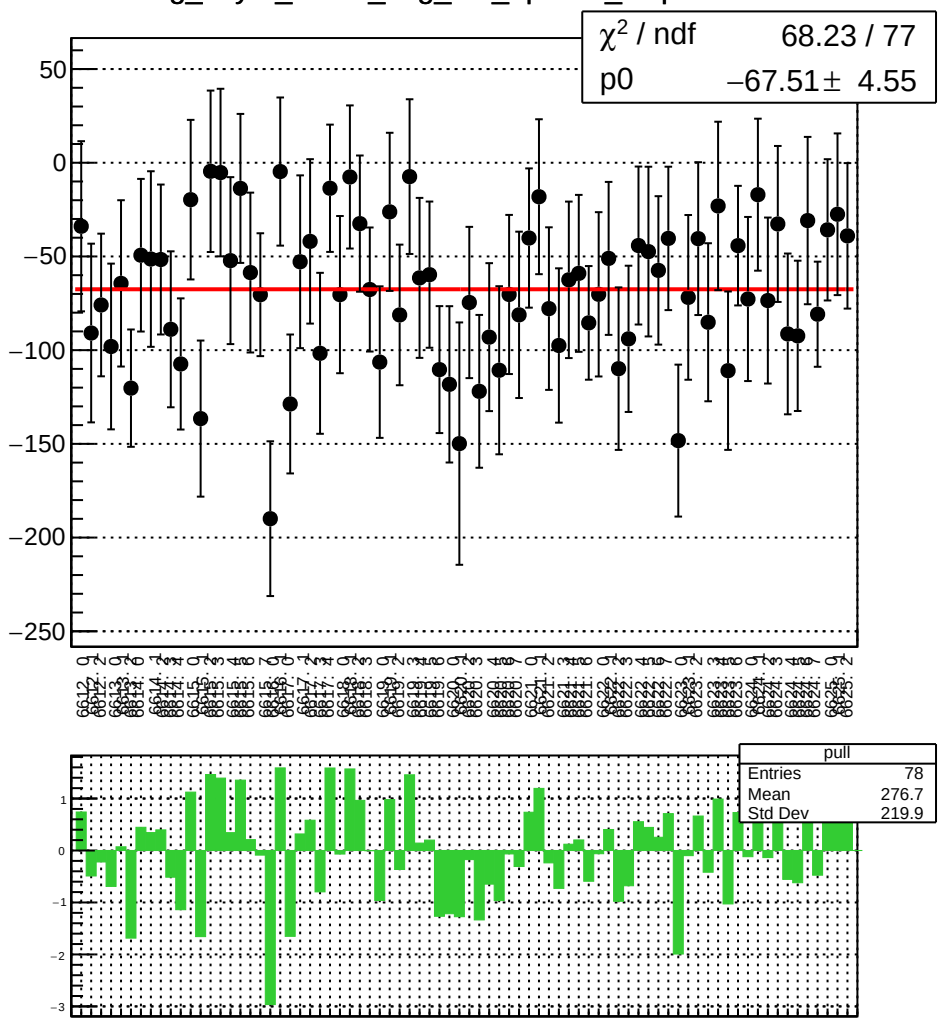

pull1D
Entries 78
Mean −0.01851
Std Dev 0.6601

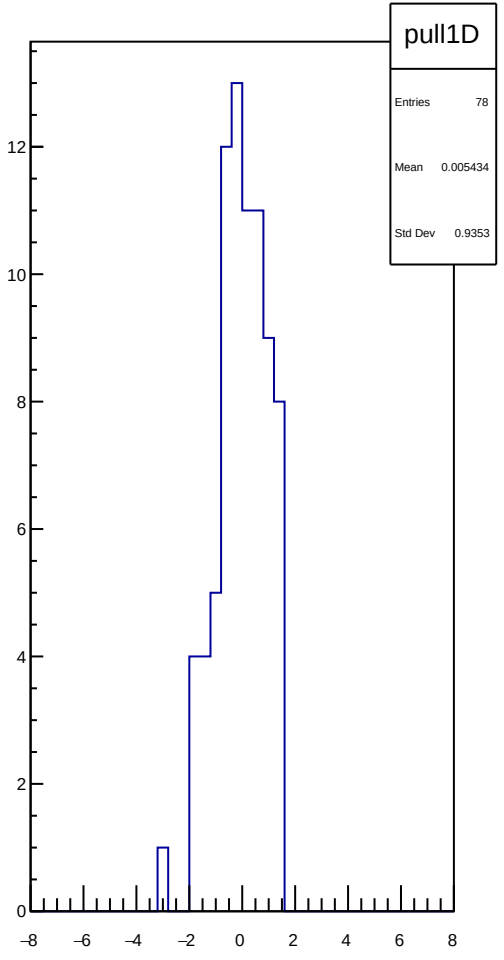

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.14 / 77
p0 −79.69 ± 4.339
pull
Entries 78
Mean −257.1
Std Dev 289.8

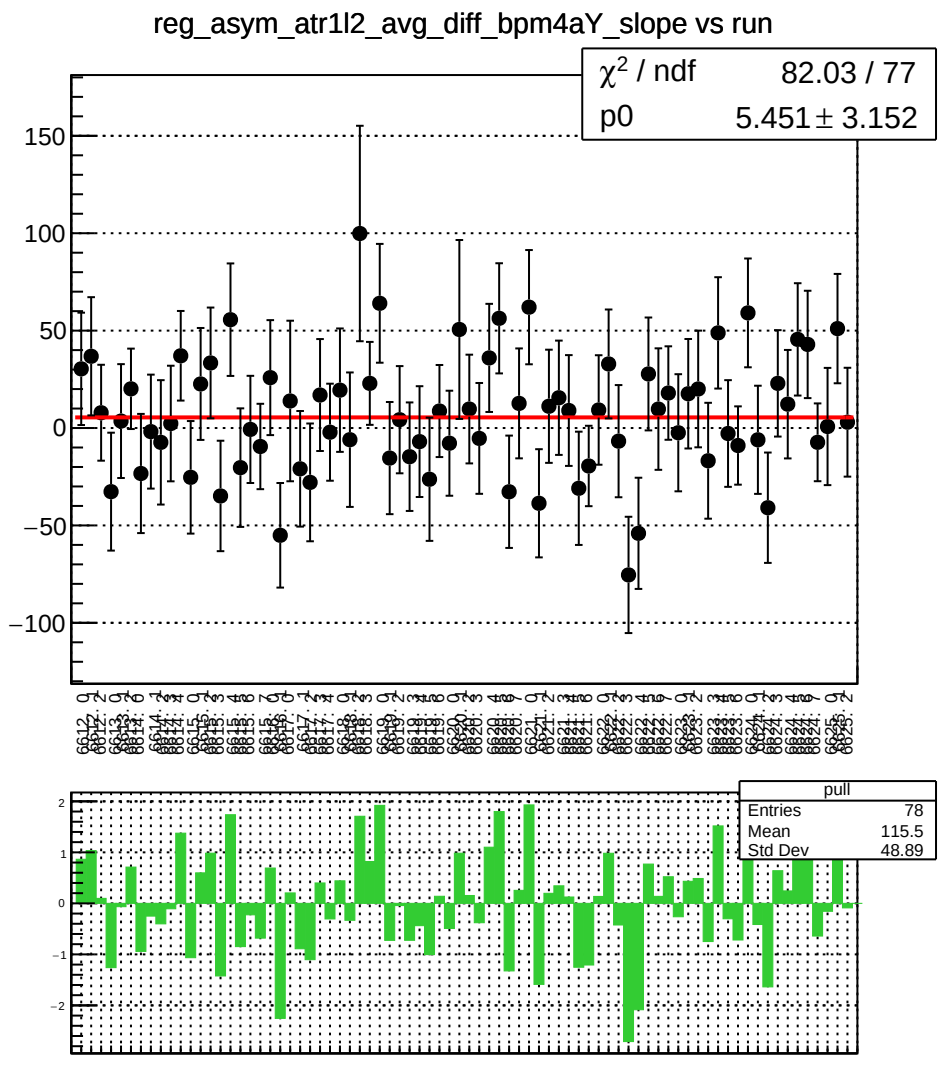

pull1D
Entries 78
Mean 0.008548
Std Dev 0.6318

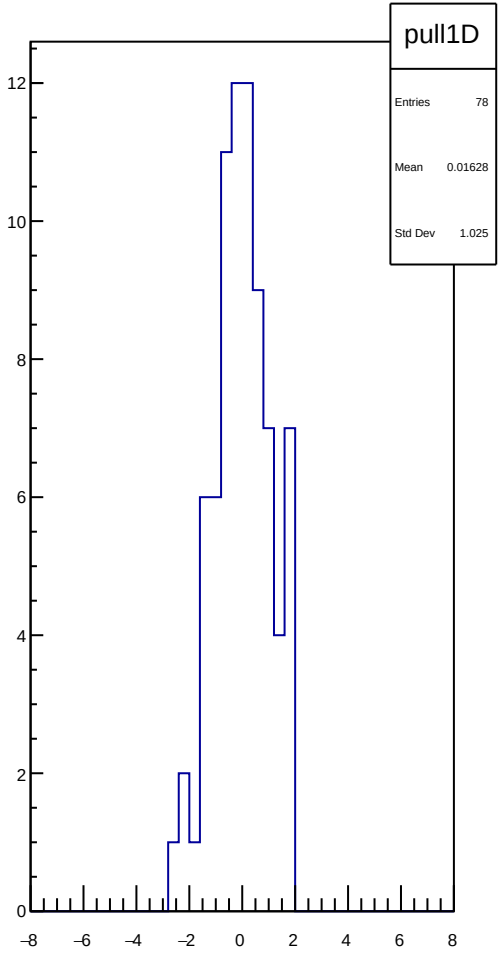

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 76.7 / 77
p0 156.3 ± 0.2263
pull
Entries 78
Mean −684.1
Std Dev 720.7

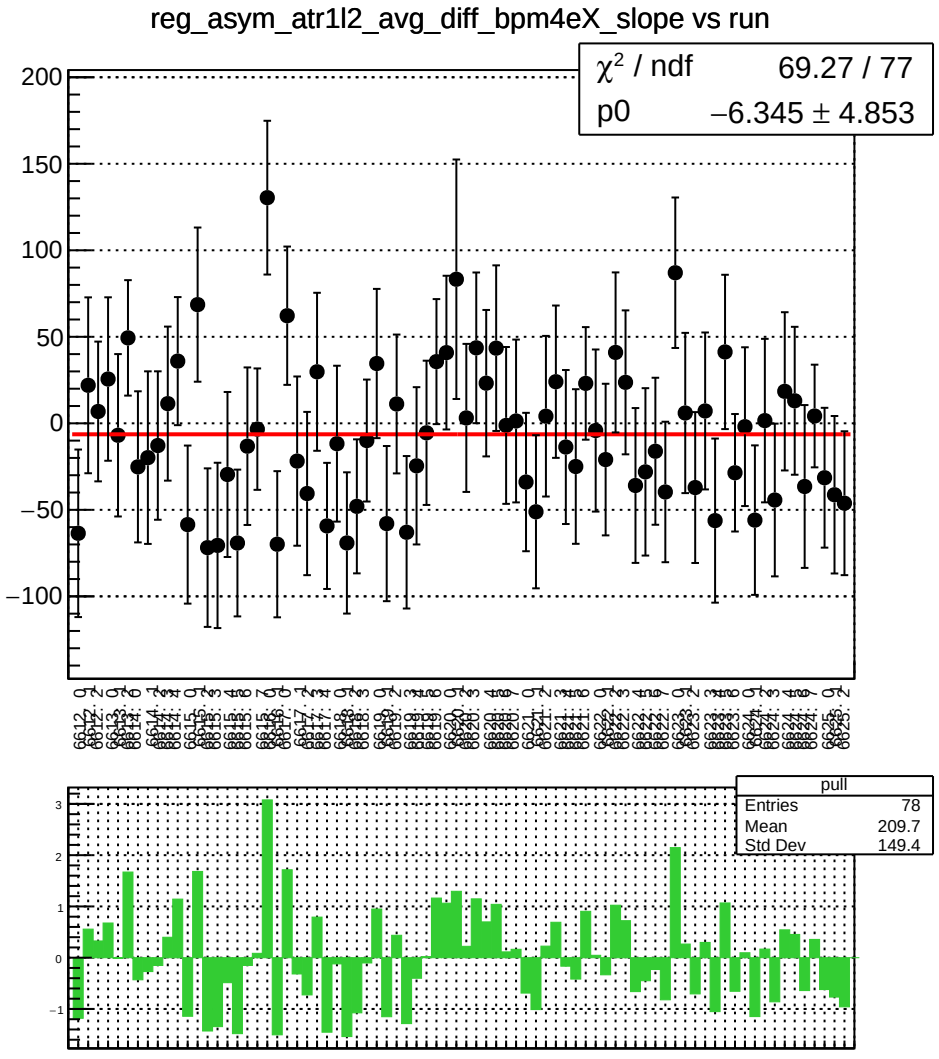

pull1D
Entries 78
Mean 0.01797
Std Dev 0.9915

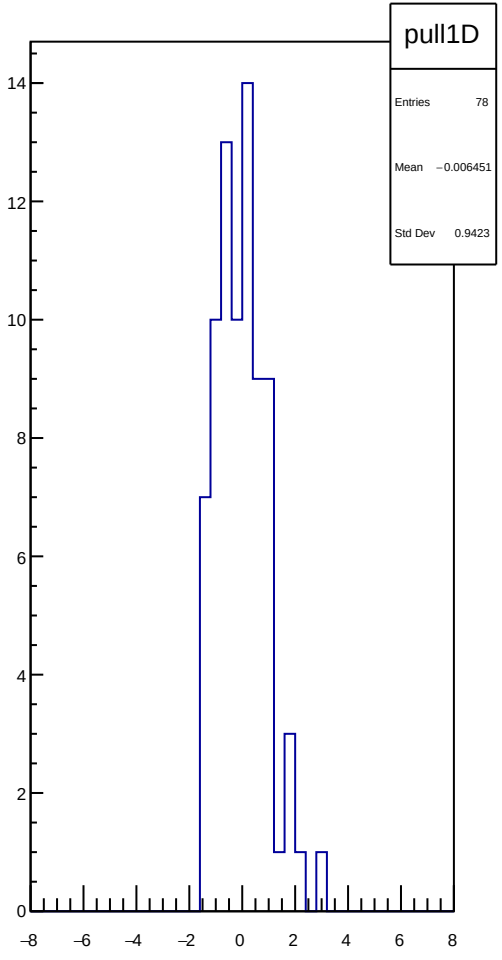

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 68.23 / 77
p0 −67.51± 4.55
pull
Entries 78
Mean 276.7
Std Dev 219.9

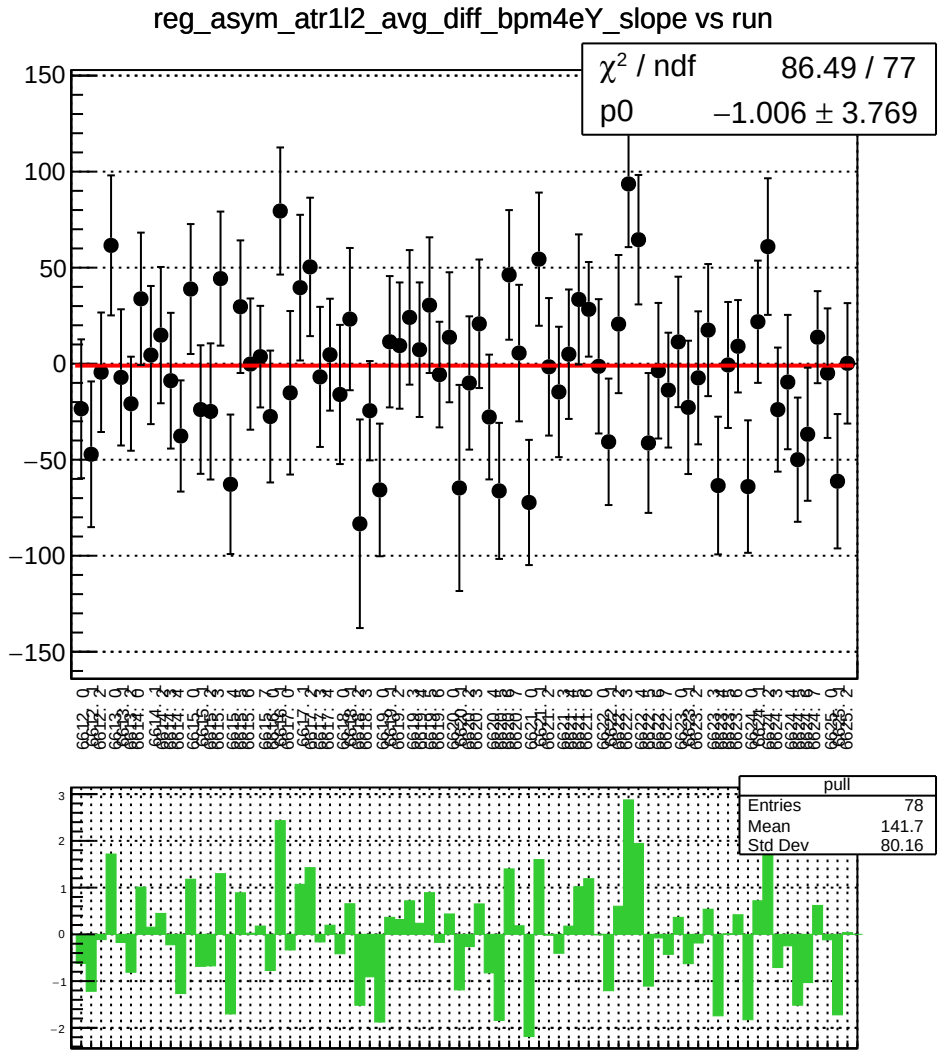

pull1D
Entries 78
Mean 0.005434
Std Dev 0.9353

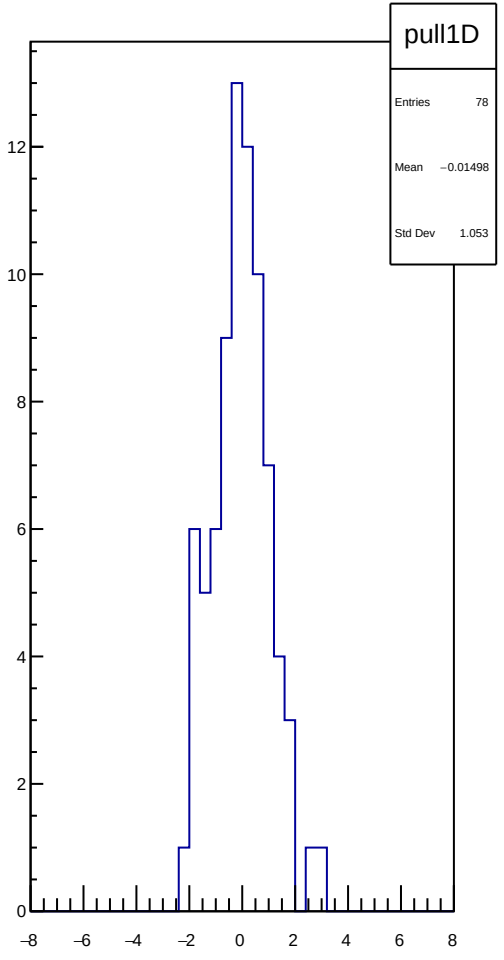

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.03 / 77
p0 5.451 ± 3.152
150
100
50
0
−50
−100
pull
Entries 78
Mean 115.5
Std Dev 48.89
2
1
0
−1
−2

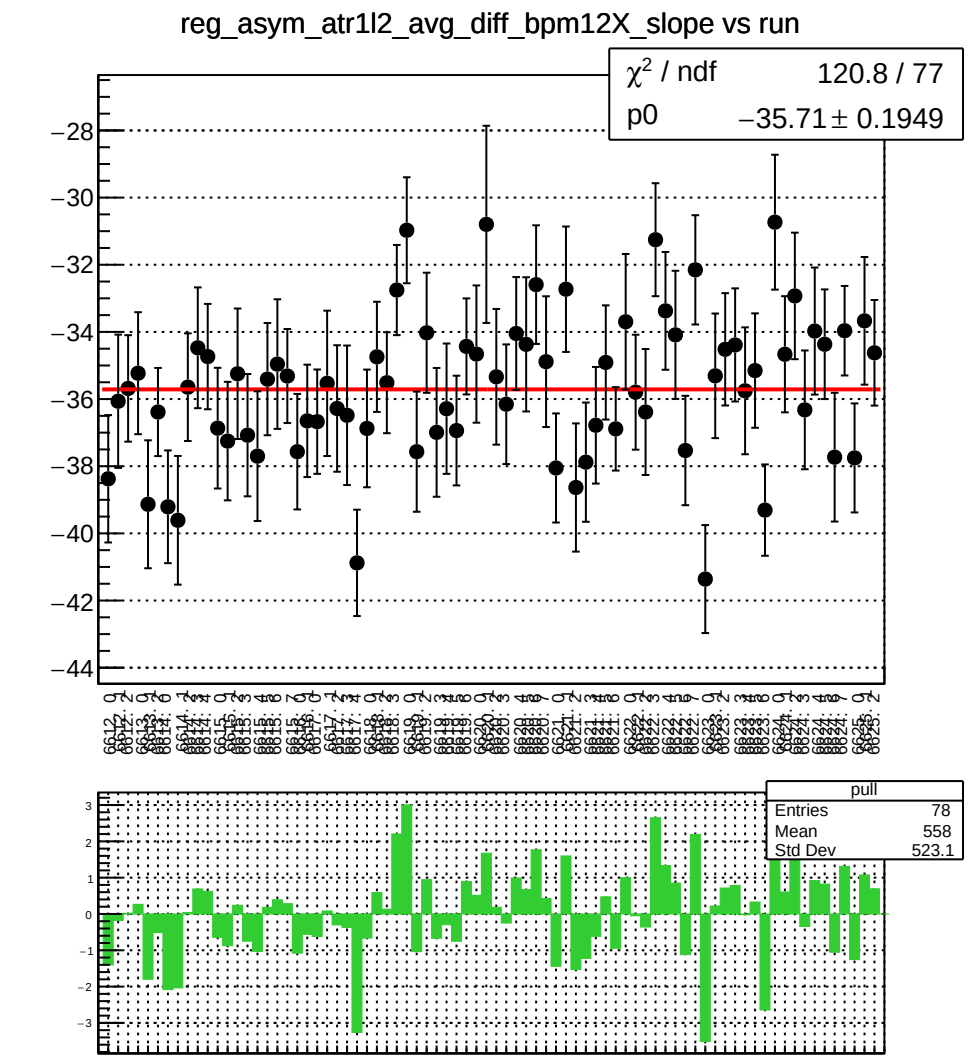

pull1D
Entries 78
Mean 0.01628
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

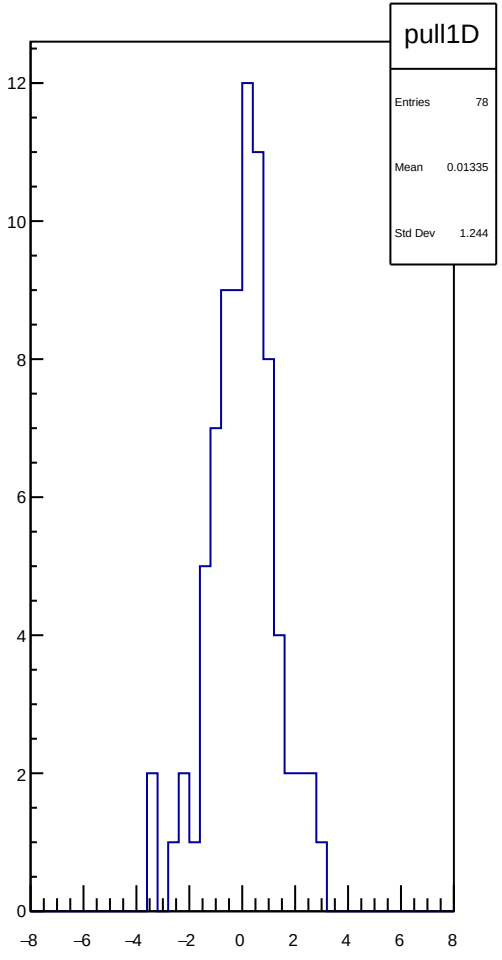

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.27 / 77
p0 −6.345 ± 4.853
pull
Entries 78
Mean 209.7
Std Dev 149.4

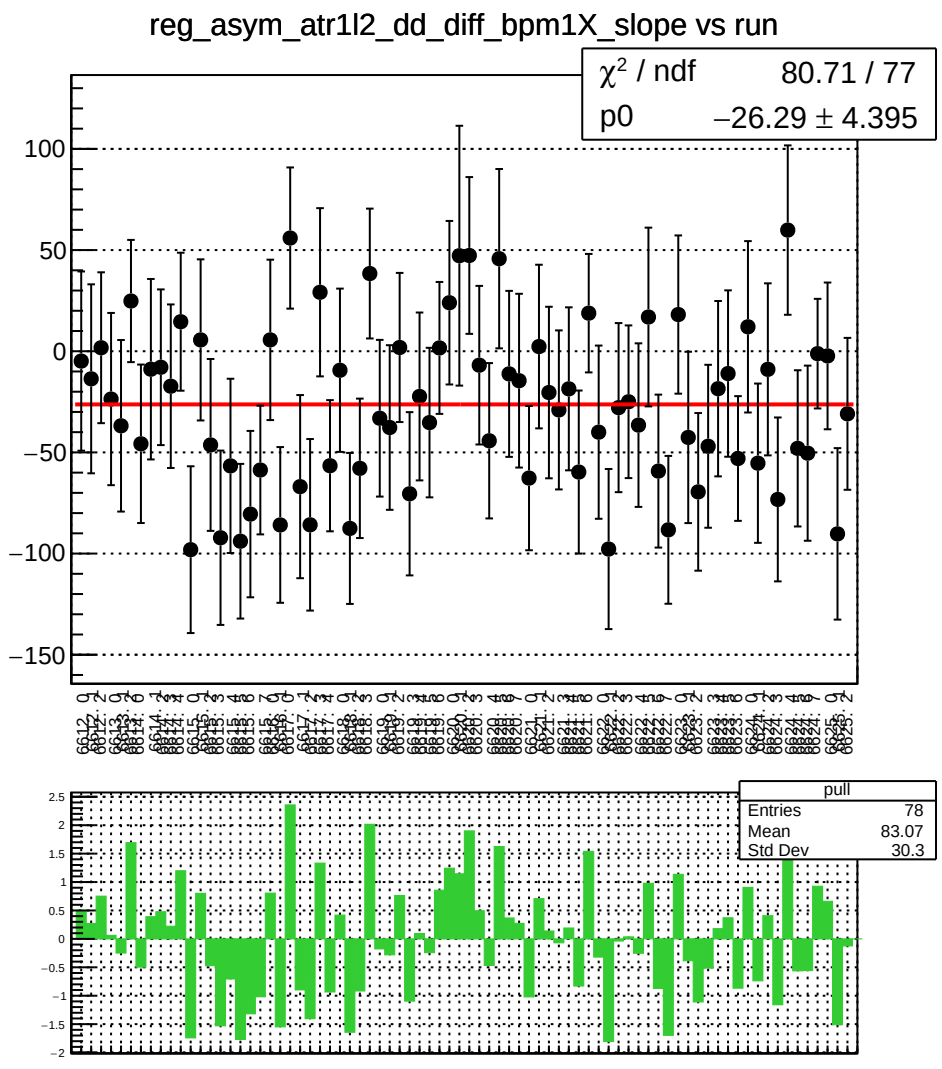

pull1D
Entries 78
Mean −0.006451
Std Dev 0.9423

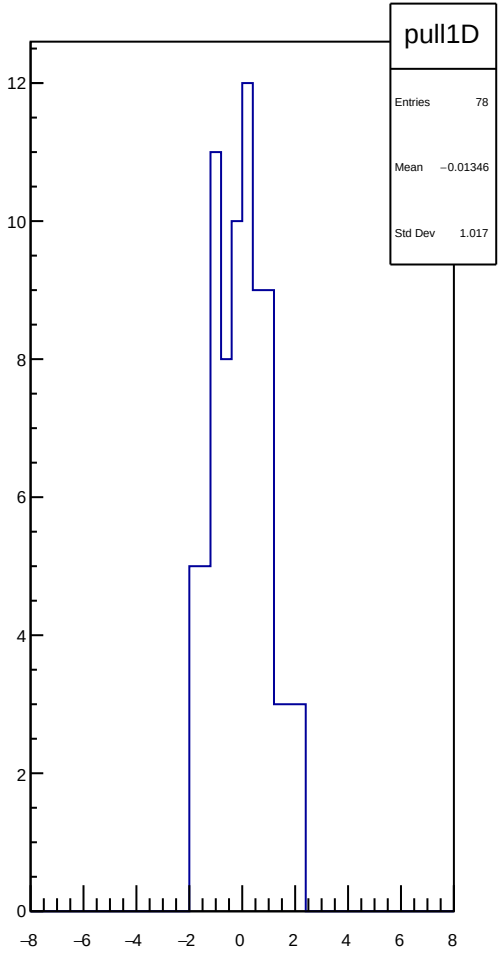

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.49 / 77
p0 −1.006 ± 3.769
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 141.7
Std Dev 80.16
3
2
1
0
−1
−2

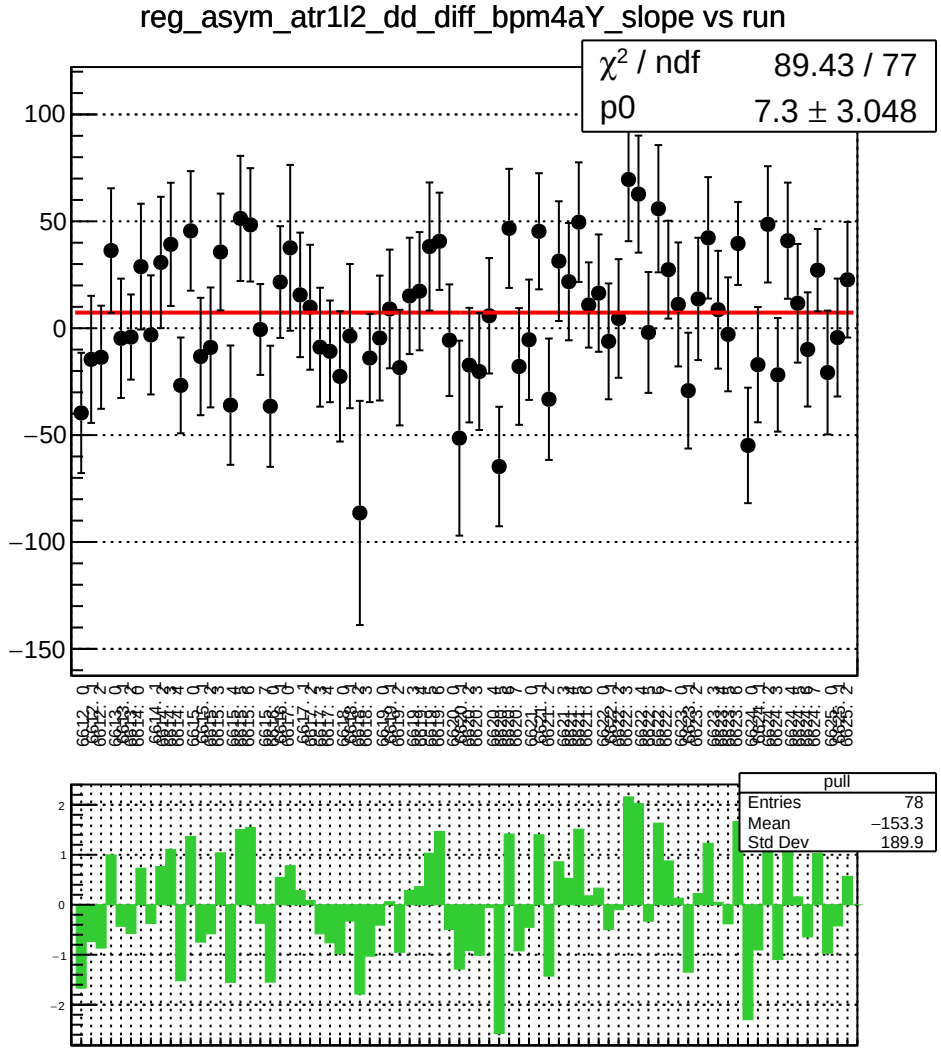

pull1D
Entries 78
Mean −0.01498
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

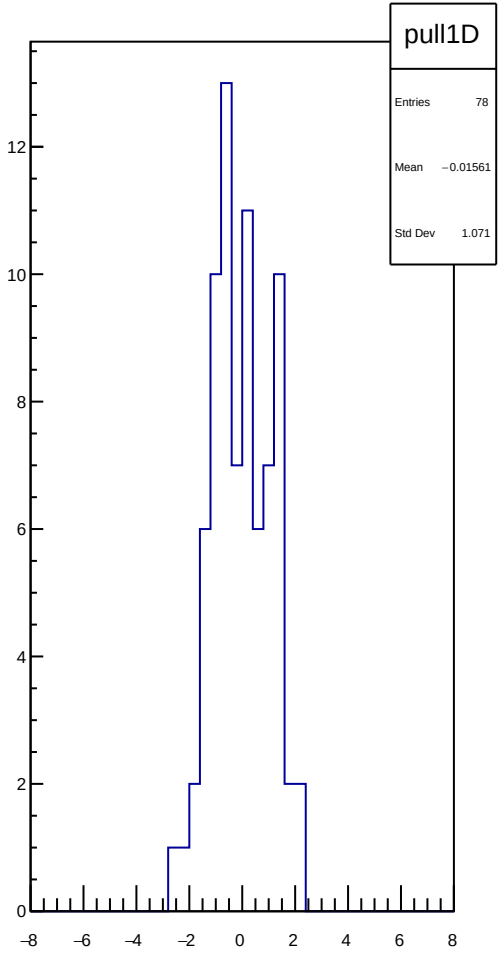

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 120.8 / 77
p0 −35.71 ± 0.1949
pull
Entries 78
Mean 558
Std Dev 523.1

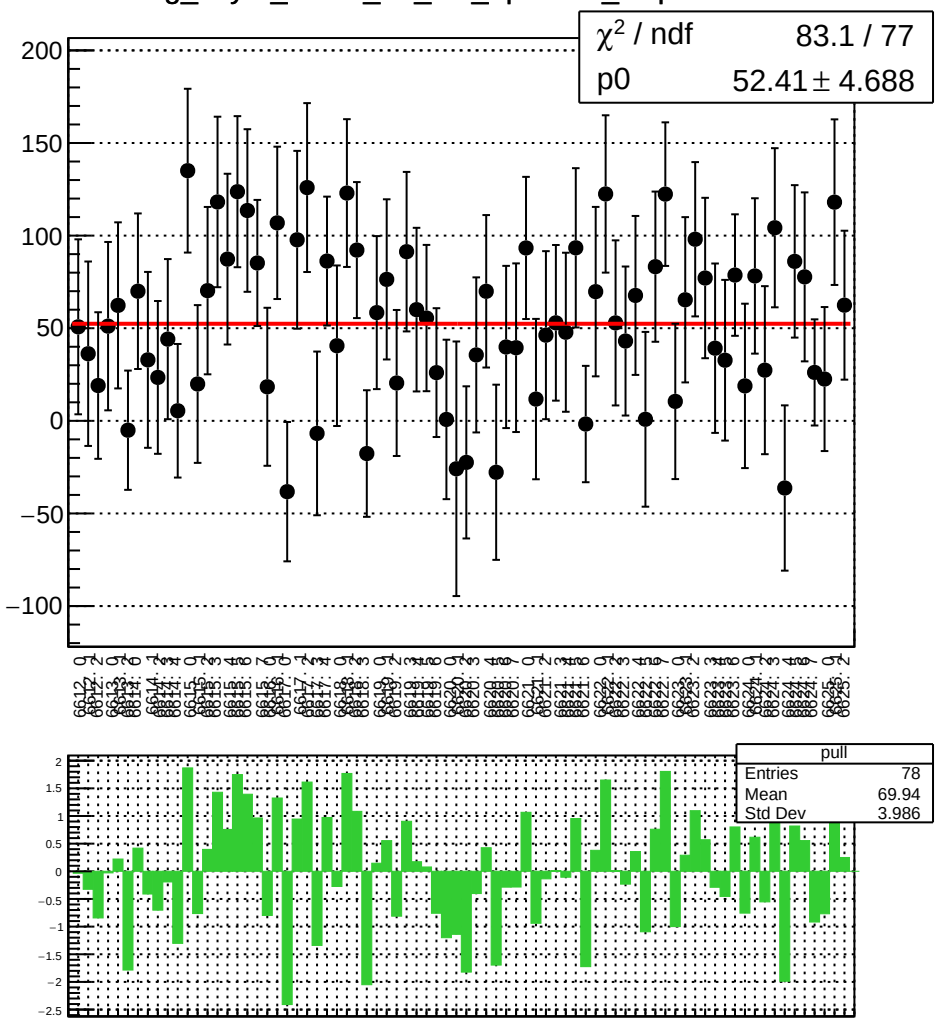

pull1D
Entries 78
Mean 0.01335
Std Dev 1.244

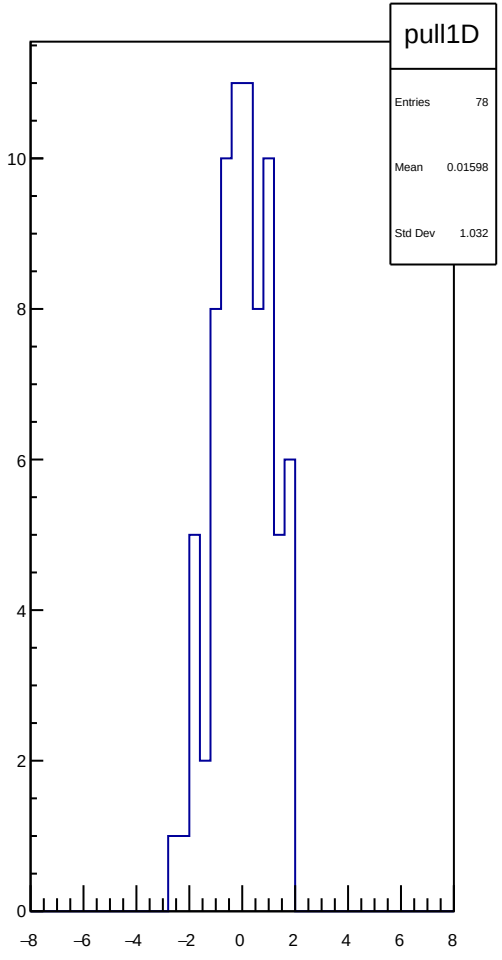

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 80.71 / 77
p0 −26.29 ± 4.395
pull
Entries 78
Mean 83.07
Std Dev 30.3

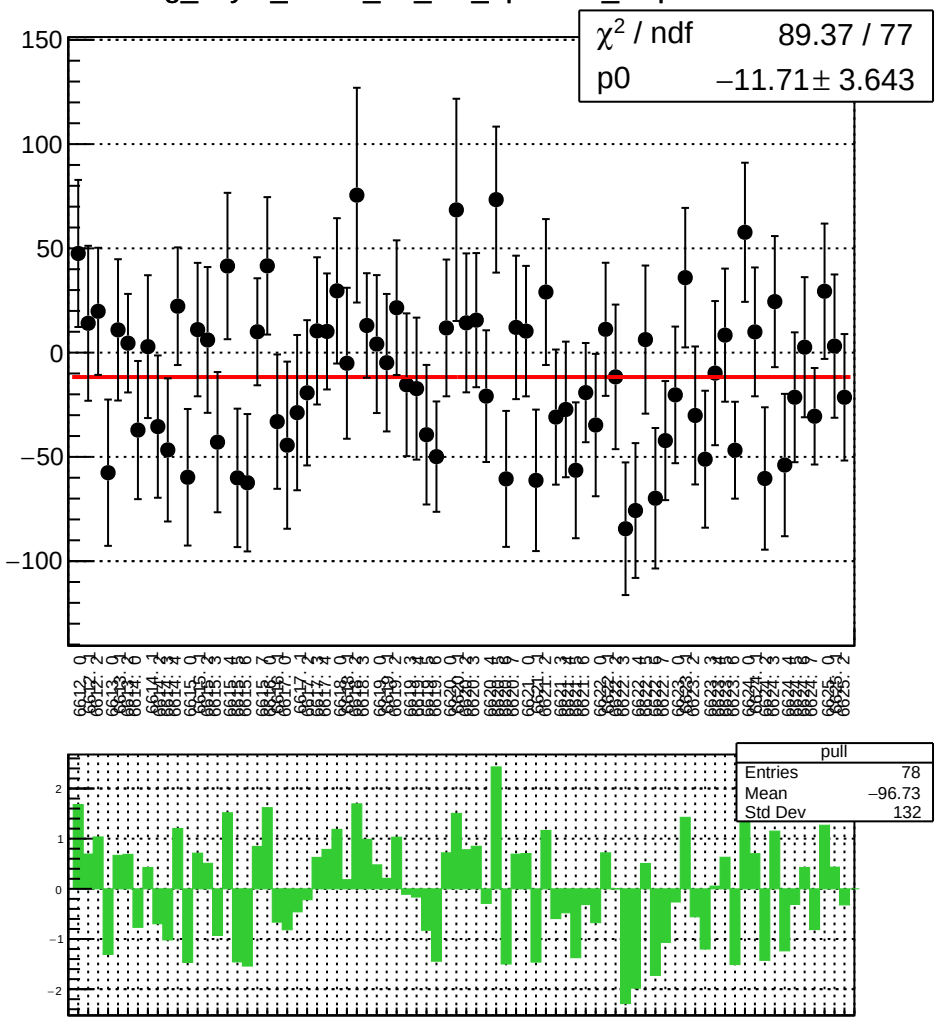

pull1D
Entries 78
Mean −0.01346
Std Dev 1.017

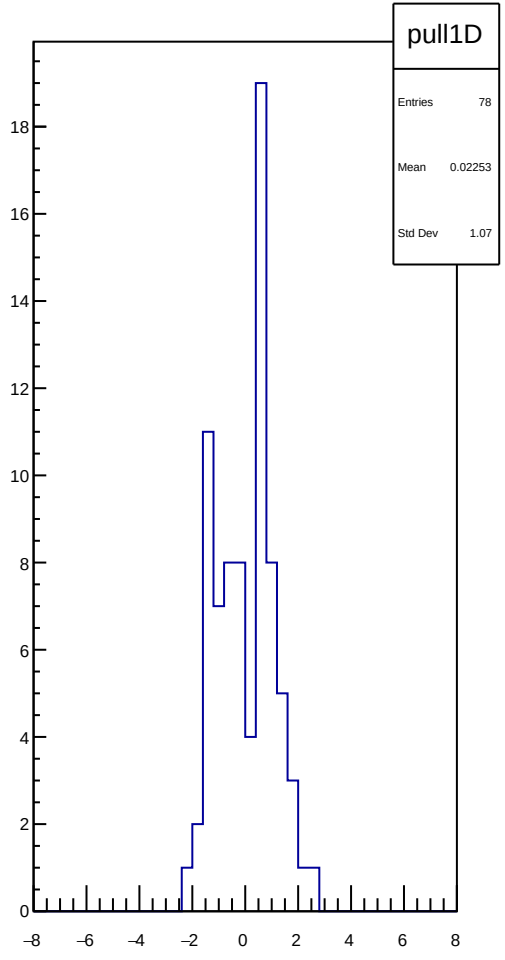

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.43 / 77
p0 7.3 ± 3.048
pull
Entries 78
Mean −153.3
Std Dev 189.9

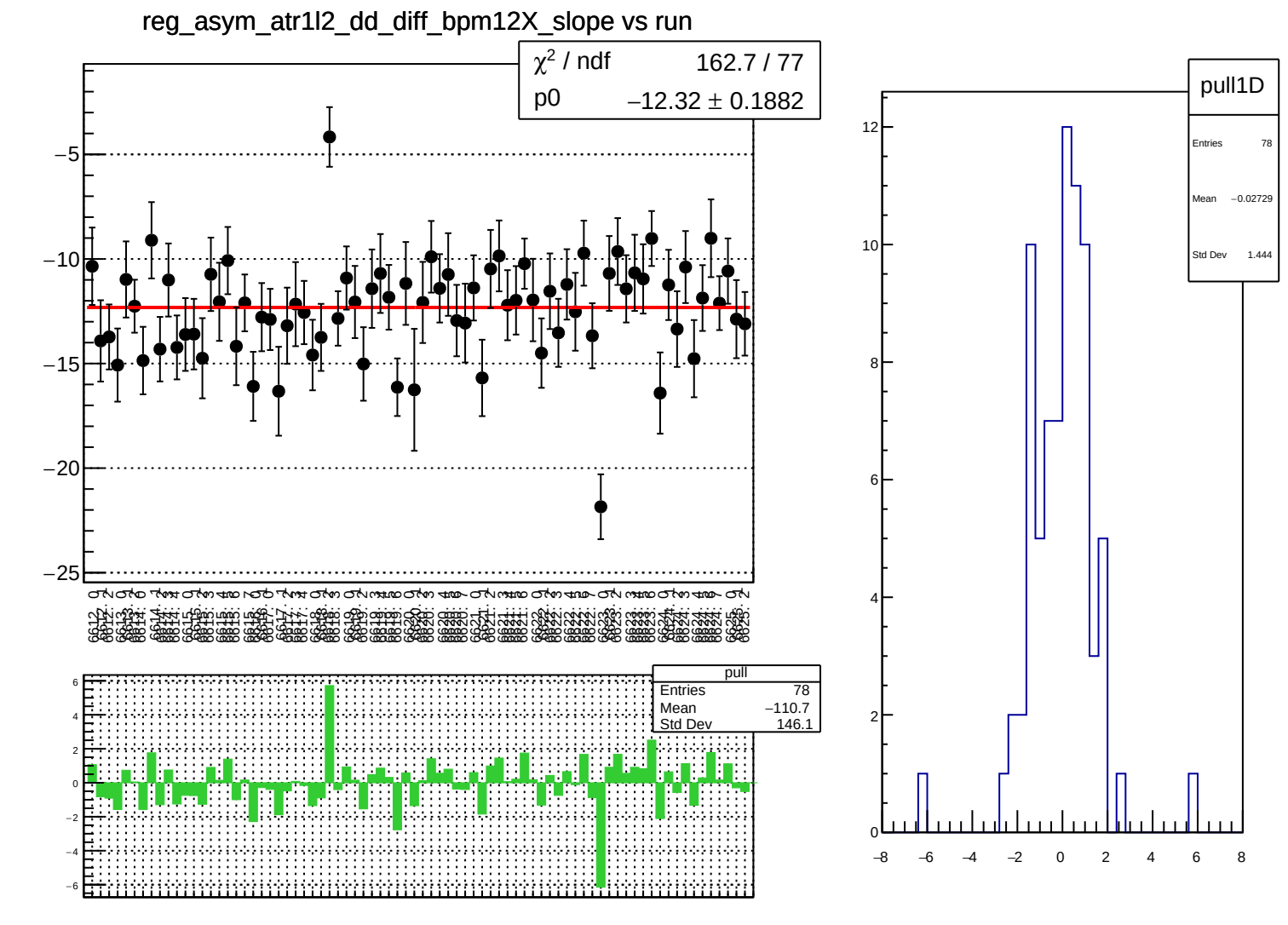

pull1D
Entries 78
Mean −0.01561
Std Dev 1.071

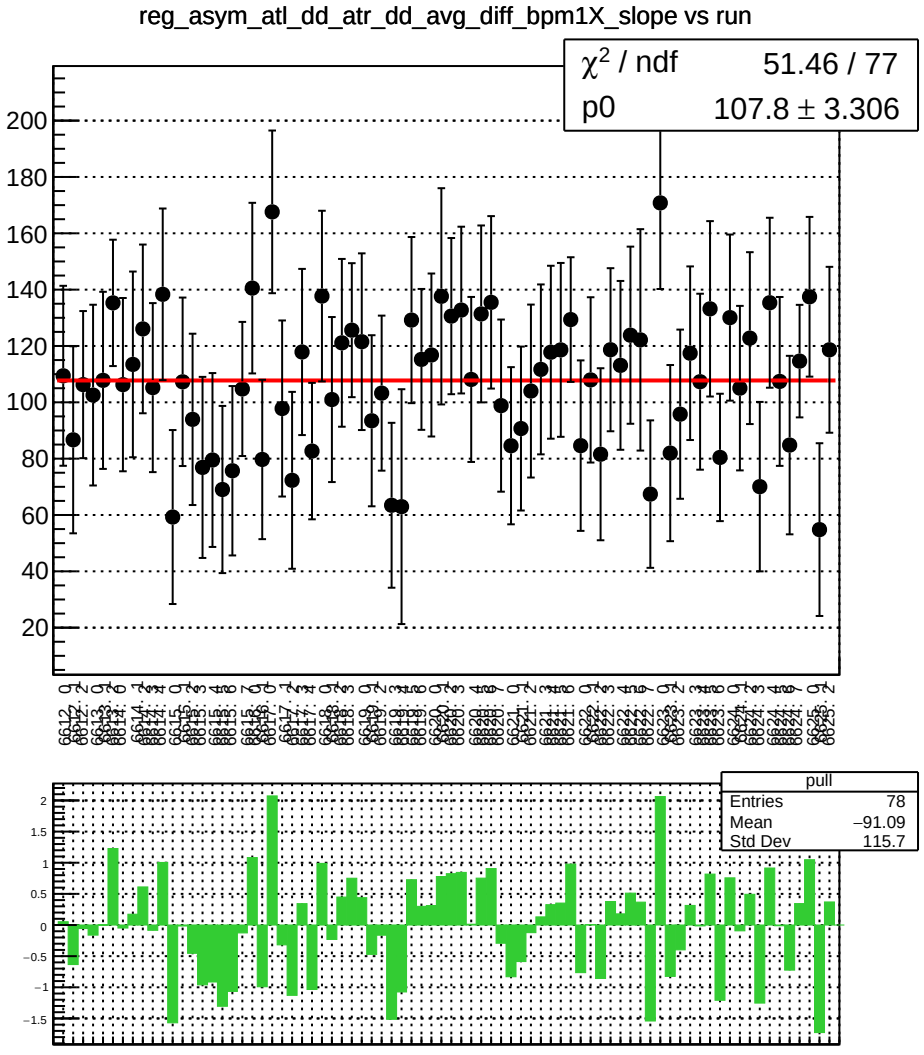

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.1 / 77
p0 52.41 ± 4.688
pull
Entries 78
Mean 69.94
Std Dev 3.986

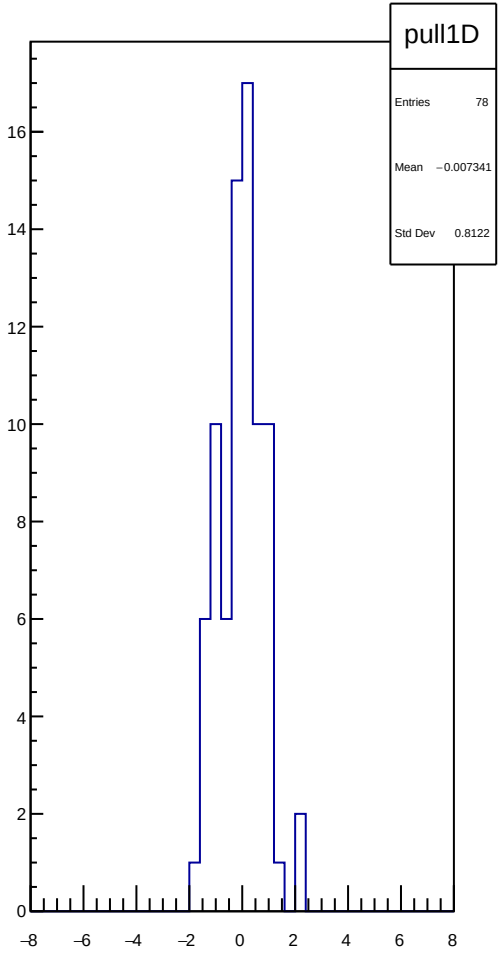

pull1D
Entries 78
Mean 0.01598
Std Dev 1.032

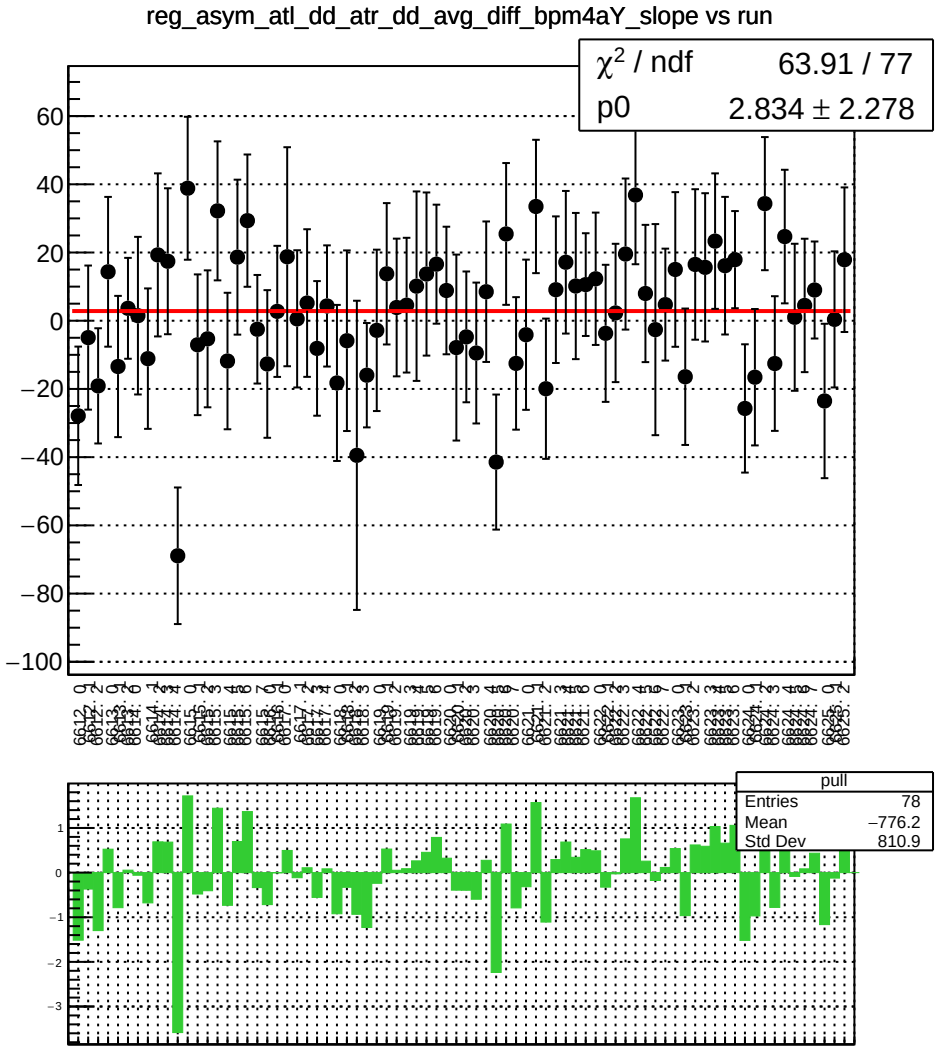

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.37 / 77
p0 −11.71± 3.643
150
100
50
0
−50
−100
pull
Entries 78
Mean −96.73
Std Dev 132
2
1
0
−1
−2

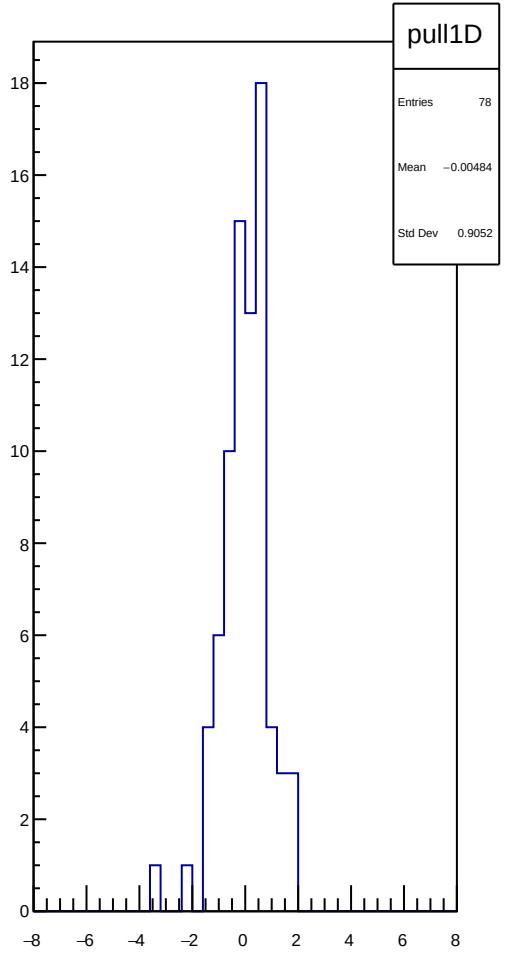

pull1D
Entries 78
Mean 0.02253
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

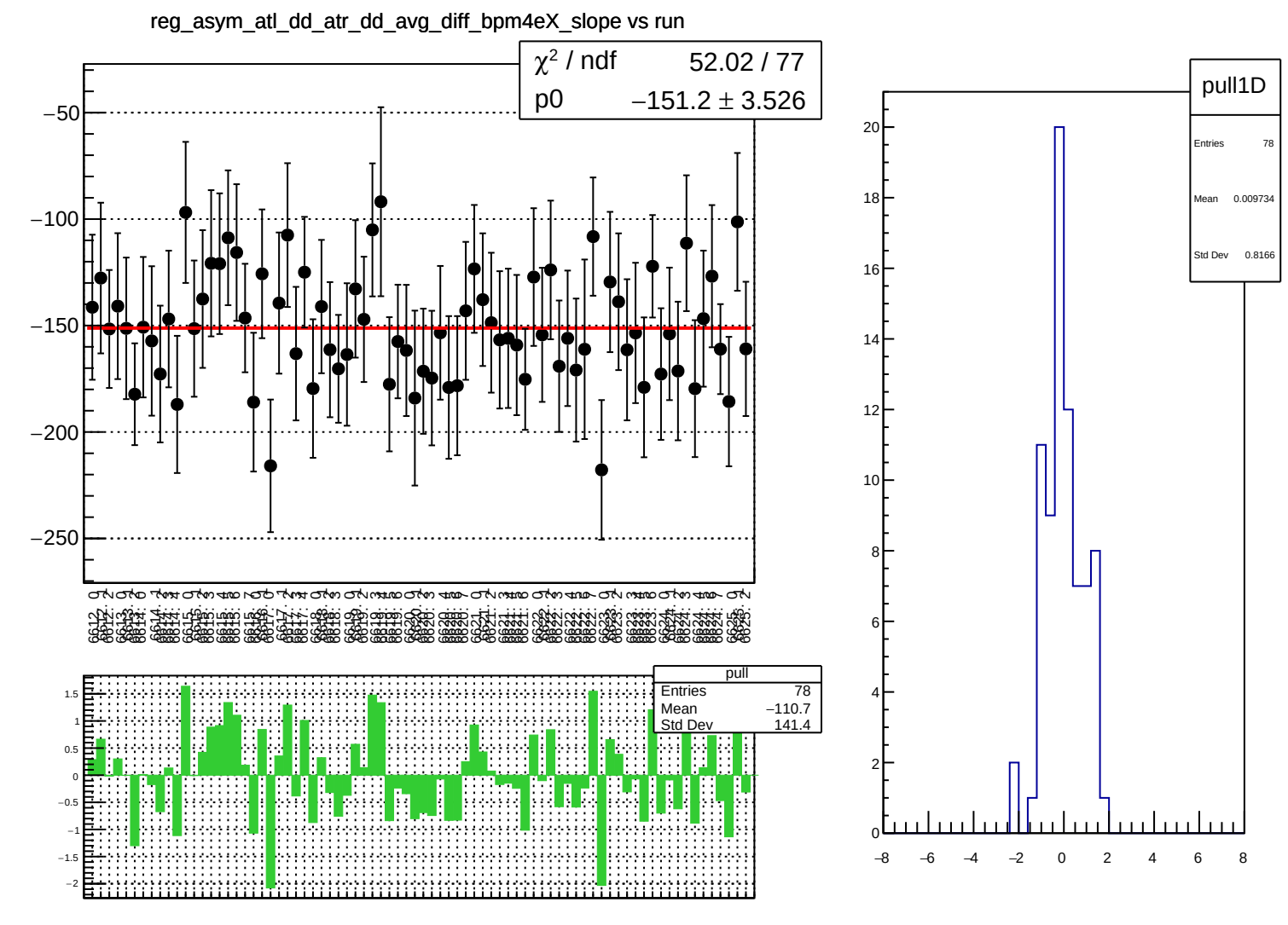

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 162.7 / 77
p0 −12.32 ± 0.1882
pull
Entries 78
Mean −110.7
Std Dev 146.1
pull1D
Entries 78
Mean −0.02729
Std Dev 1.444

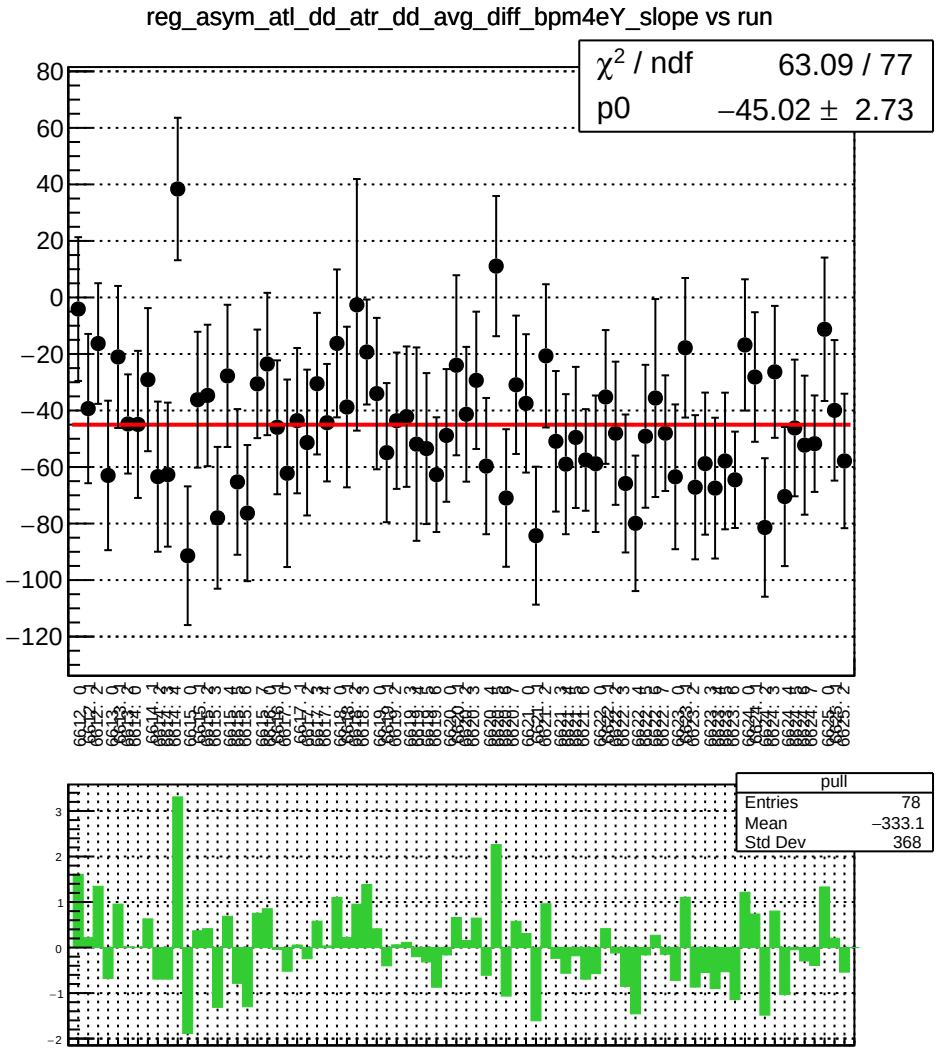

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 51.46 / 77
p0 107.8 ± 3.306
pull
Entries 78
Mean −91.09
Std Dev 115.7

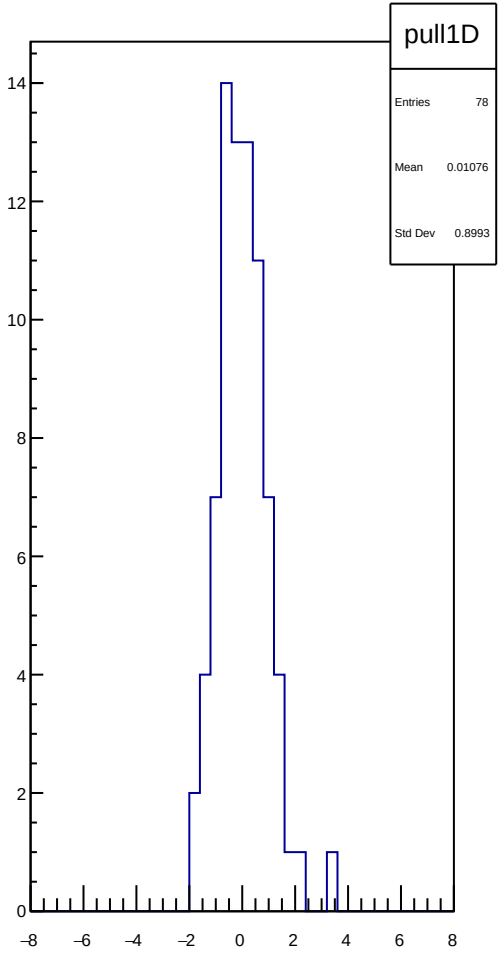

pull1D
Entries 78
Mean −0.007341
Std Dev 0.8122

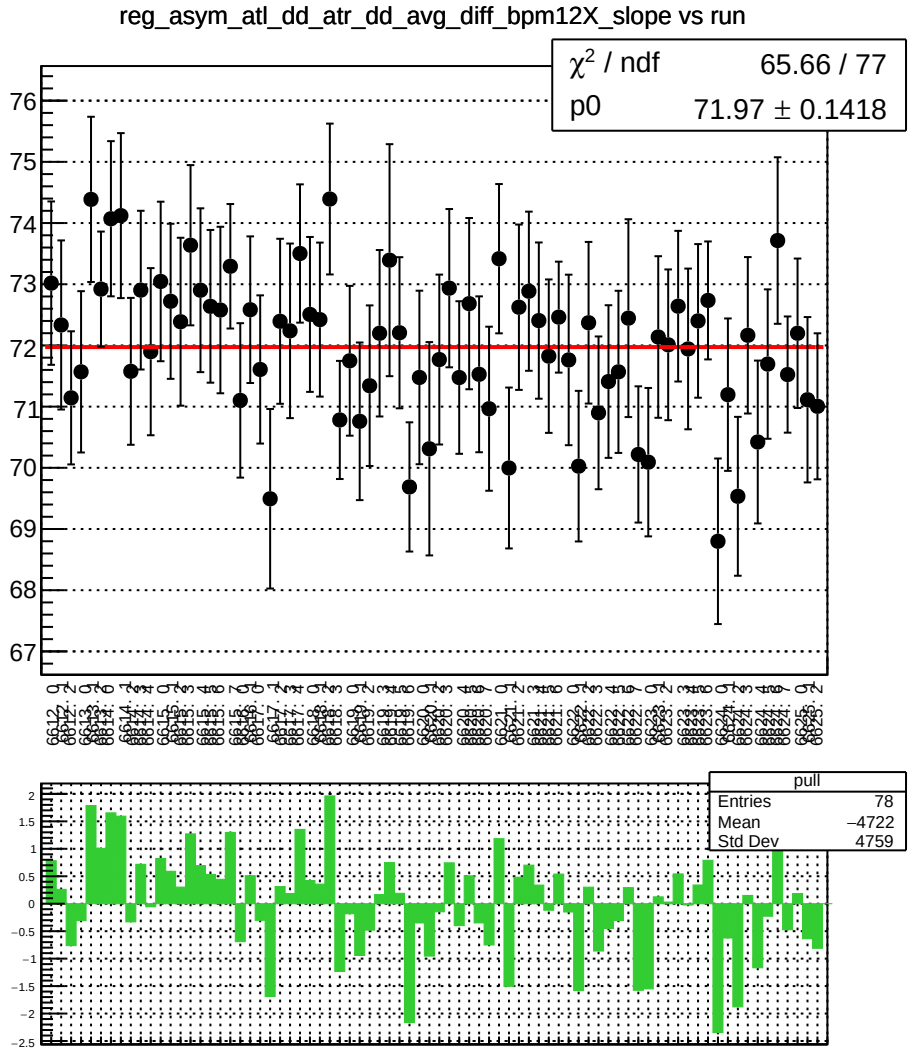

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.91 / 77
p0 2.834 ± 2.278
pull
Entries 78
Mean −776.2
Std Dev 810.9

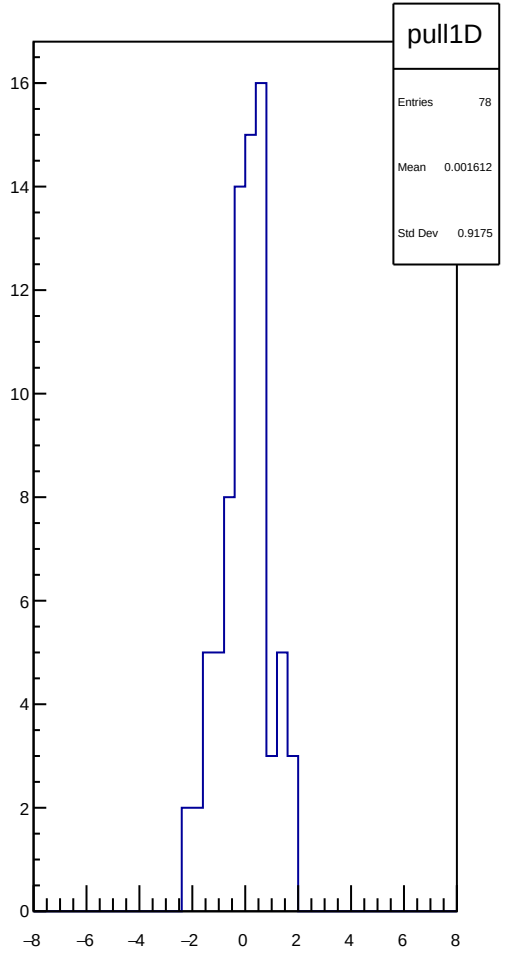

pull1D
Entries 78
Mean −0.00484
Std Dev 0.9052

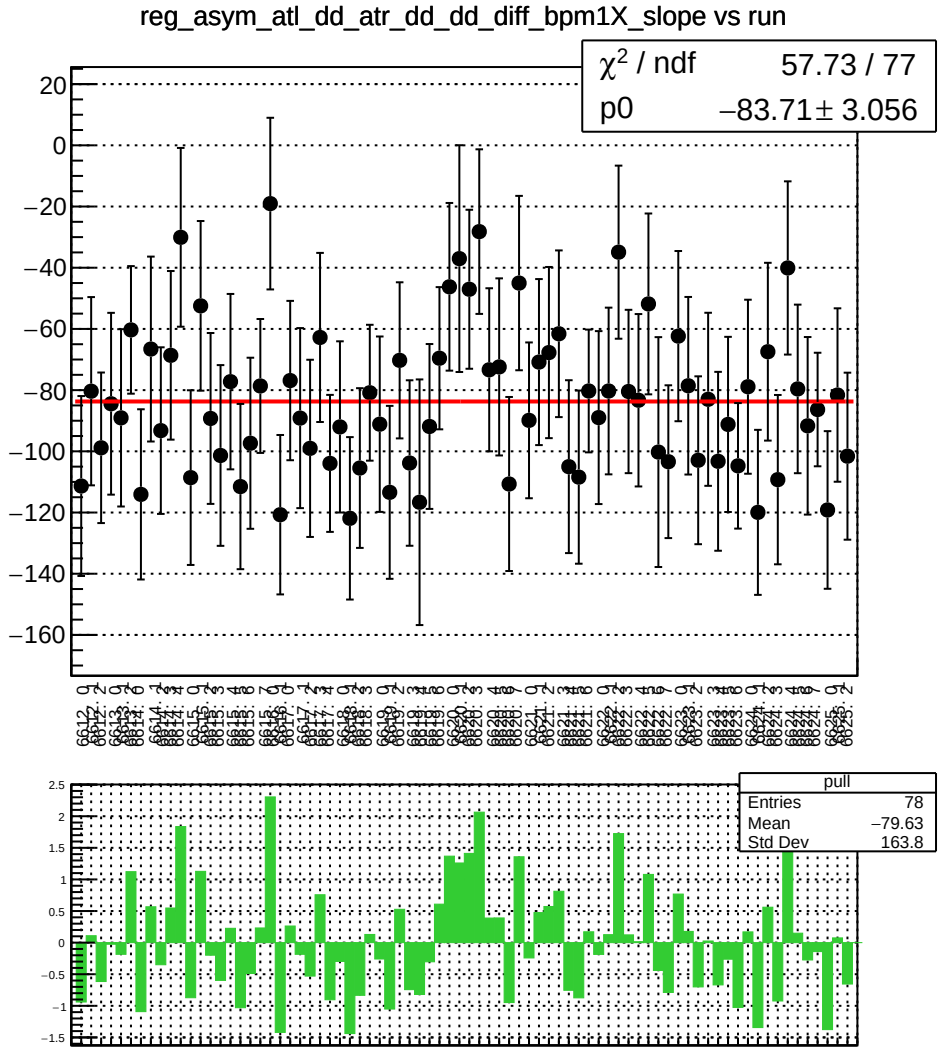

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.02 / 77
p0 −151.2 ± 3.526
−50
−100
−150
−200
−250
pull
Entries 78
Mean −110.7
Std Dev 141.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 78
Mean 0.009734
Std Dev 0.8166
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

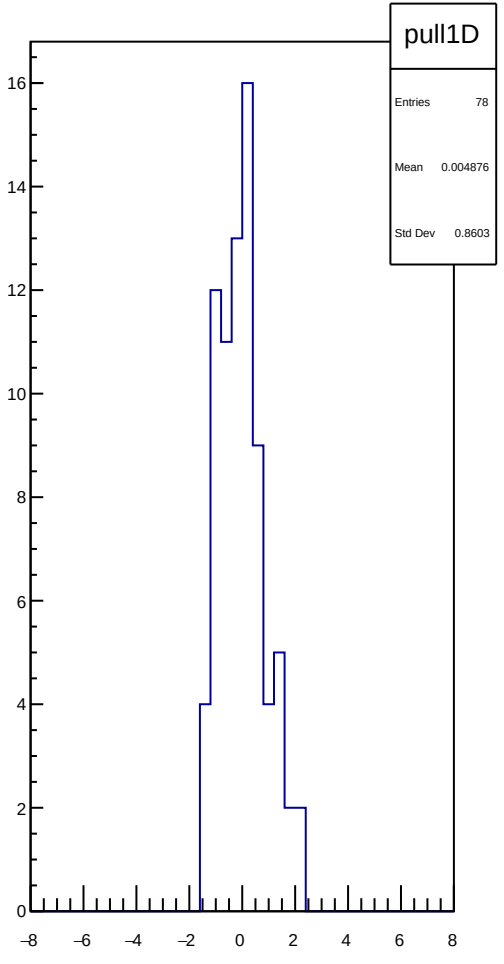

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.09 / 77
p0 −45.02 ± 2.73
pull
Entries 78
Mean −333.1
Std Dev 368

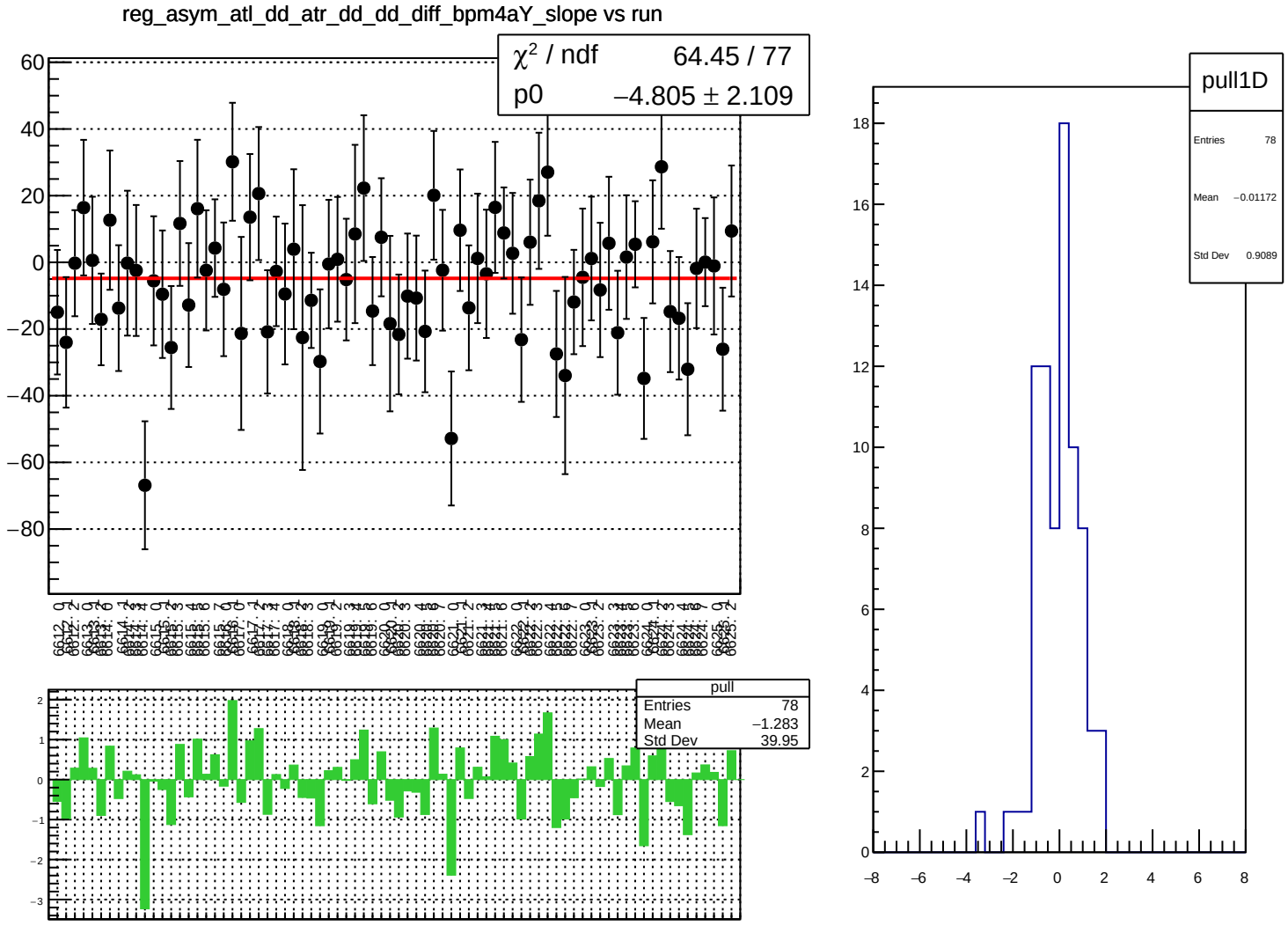

pull1D
Entries 78
Mean 0.01076
Std Dev 0.8993

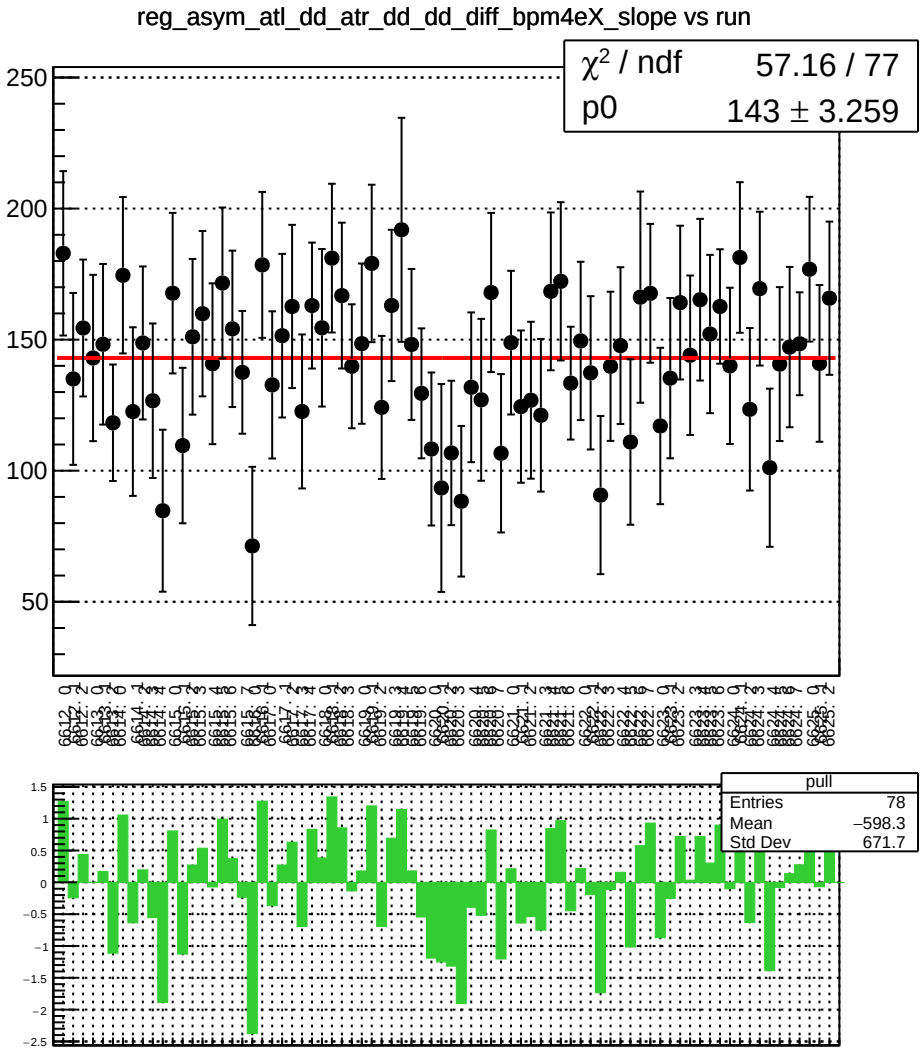

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 65.66 / 77
p0 71.97 ± 0.1418
pull
Entries 78
Mean −4722
Std Dev 4759

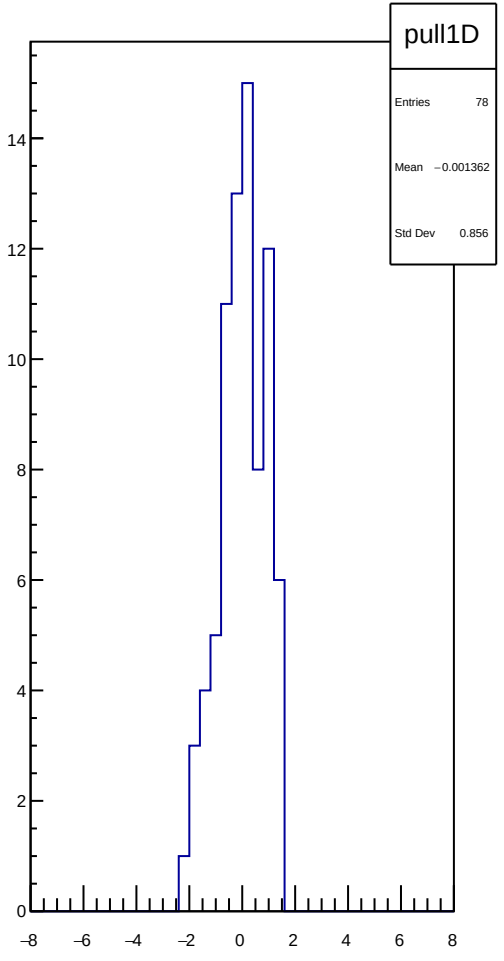

pull1D
Entries 78
Mean 0.001612
Std Dev 0.9175

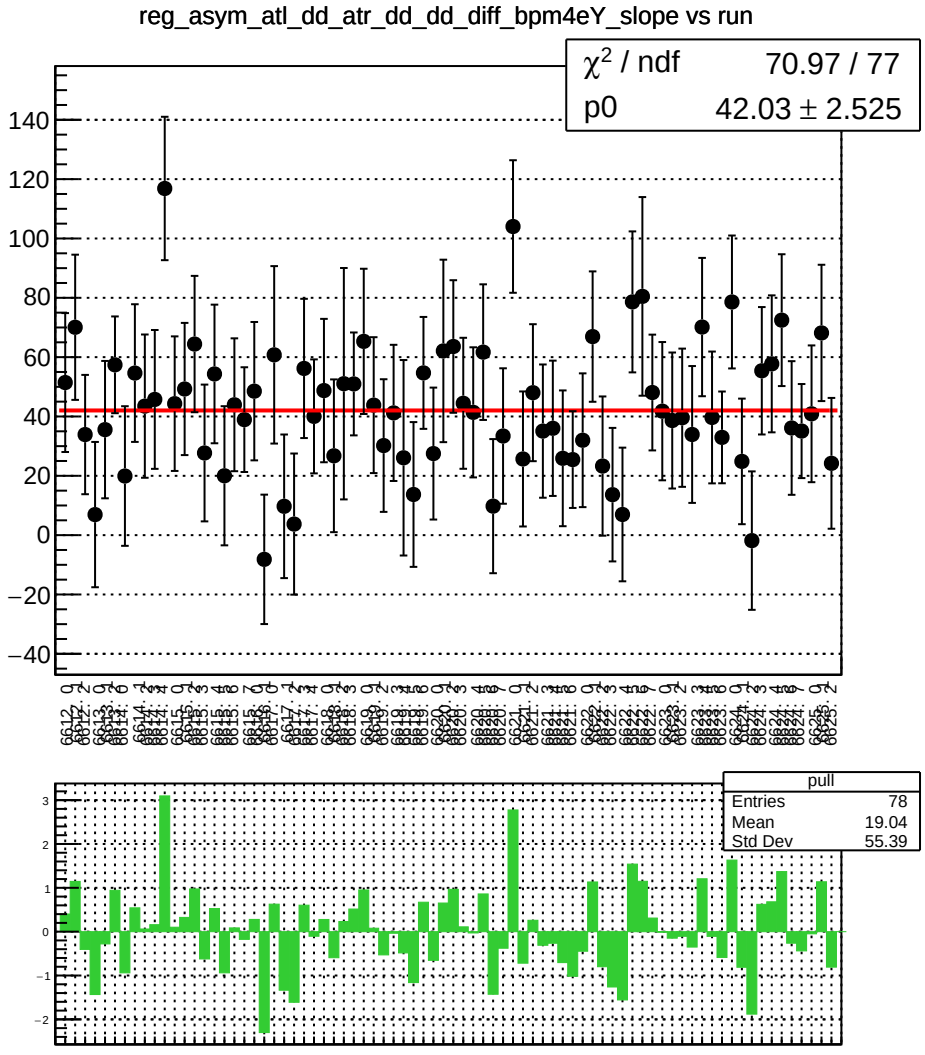

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 57.73 / 77
p0 −83.71 ± 3.056
pull
Entries 78
Mean −79.63
Std Dev 163.8

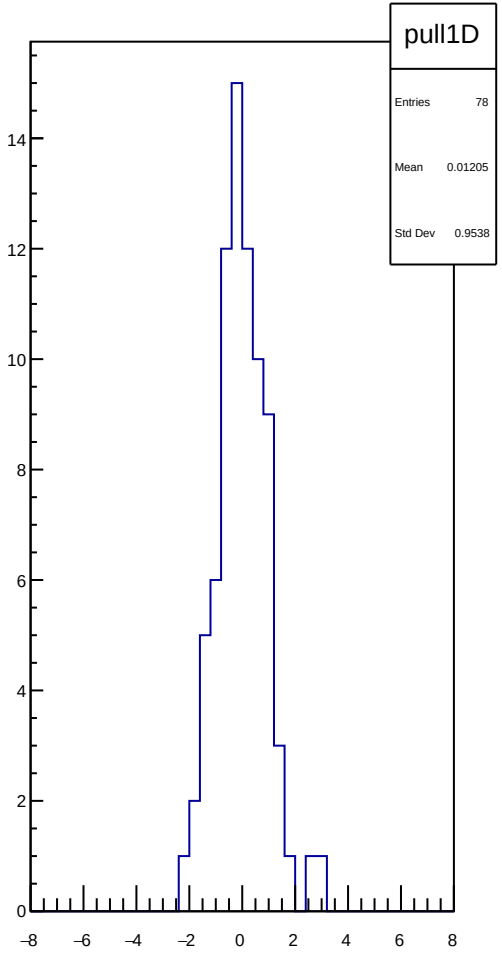

pull1D
Entries 78
Mean 0.004876
Std Dev 0.8603

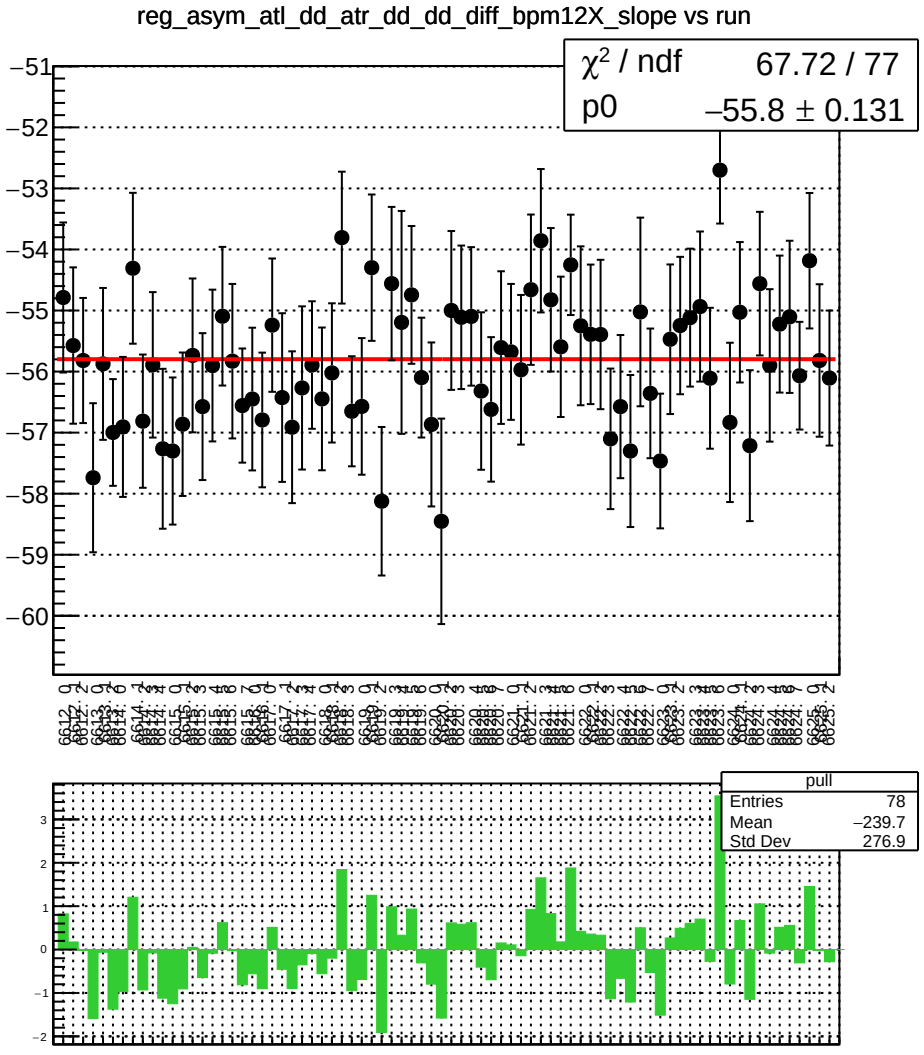

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.45 / 77
p0 −4.805 ± 2.109
pull
Entries 78
Mean −1.283
Std Dev 39.95
pull1D
Entries 78
Mean −0.01172
Std Dev 0.9089

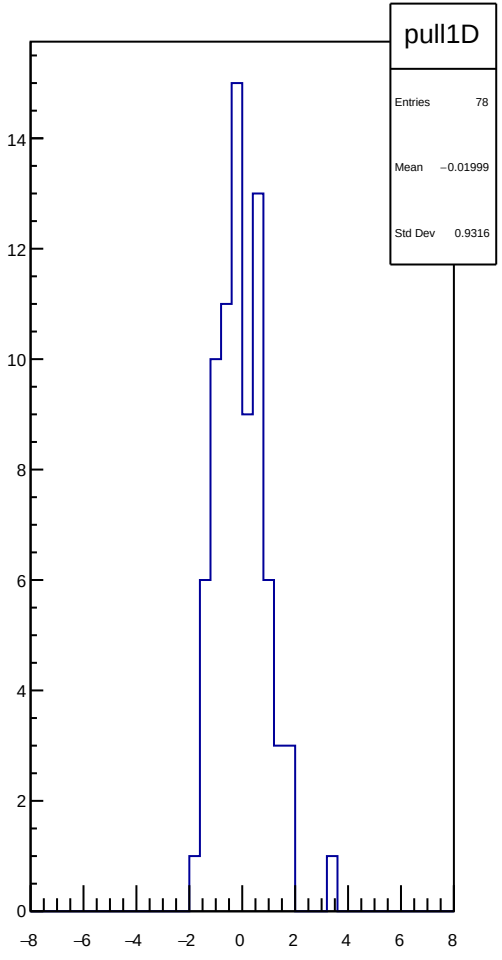

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.16 / 77
p0 143 ± 3.259
250
200
150
100
50
pull
Entries 78
Mean −598.3
Std Dev 671.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

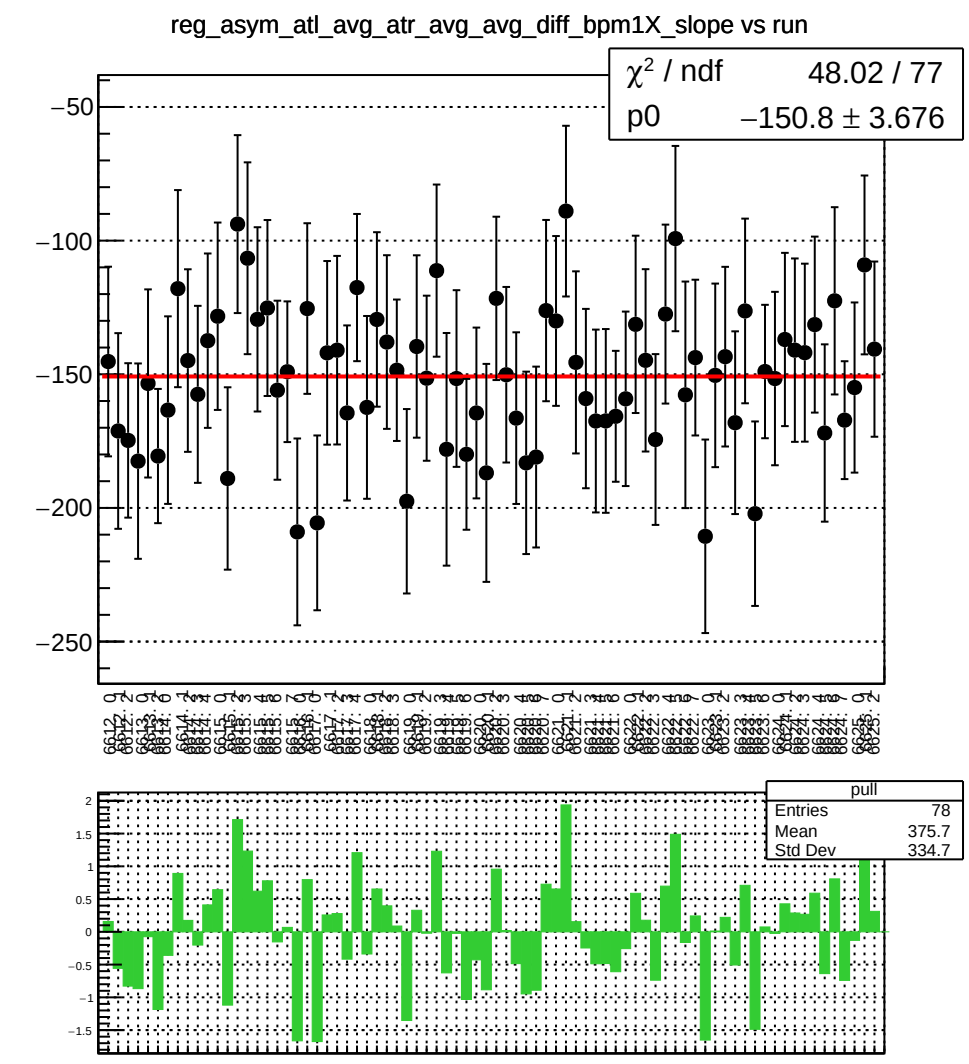

pull1D
Entries 78
Mean −0.001362
Std Dev 0.856
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

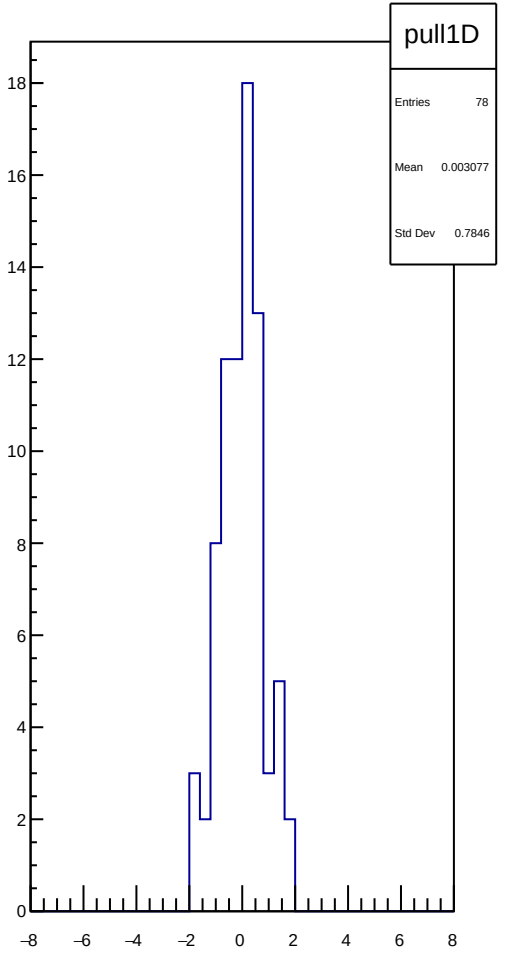

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.97 / 77
p0 42.03 ± 2.525
pull
Entries 78
Mean 19.04
Std Dev 55.39

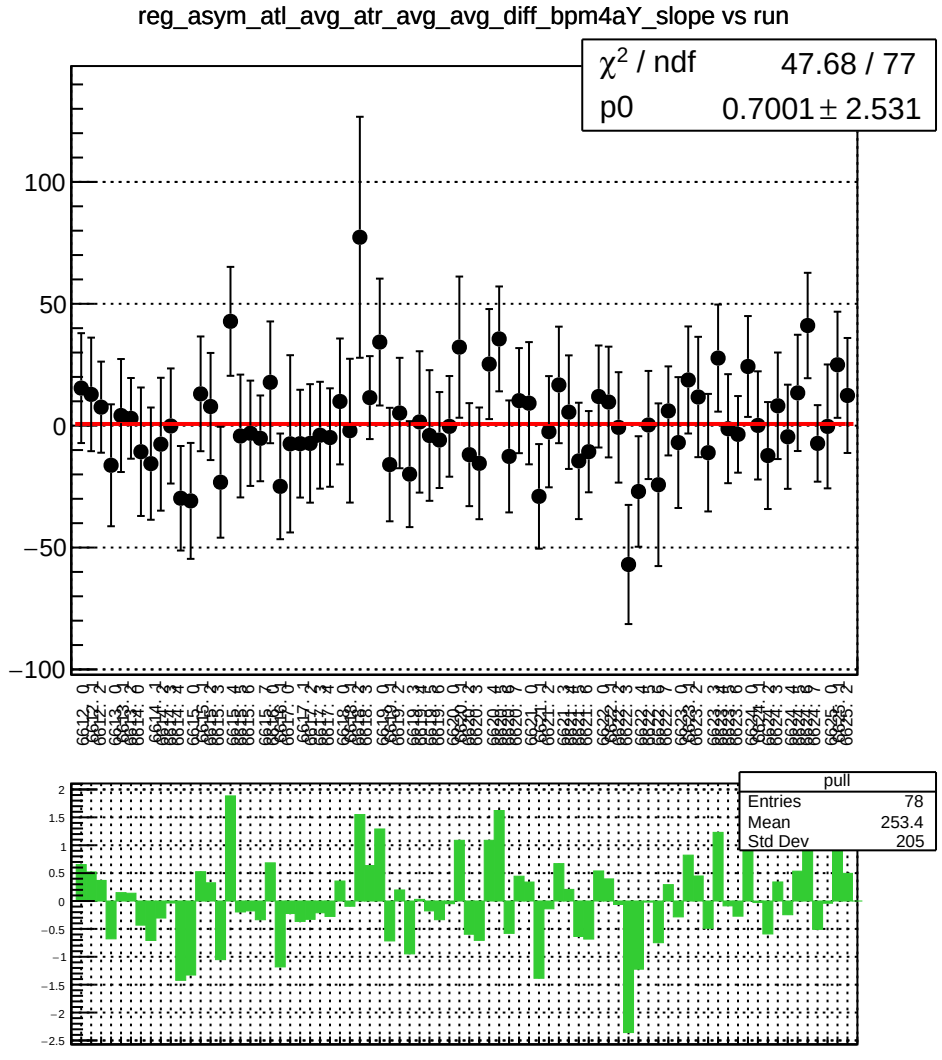

pull1D
Entries 78
Mean 0.01205
Std Dev 0.9538

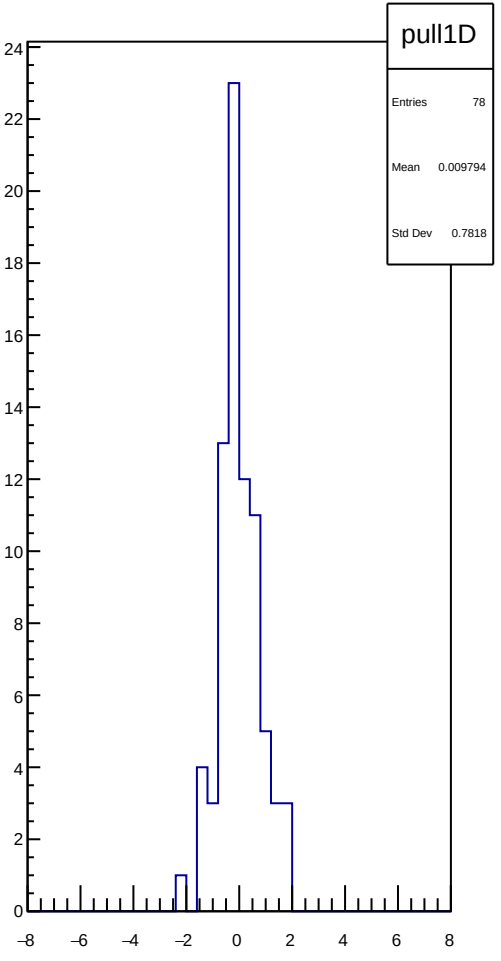

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 67.72 / 77
p0 −55.8 ± 0.131
pull
Entries 78
Mean −239.7
Std Dev 276.9

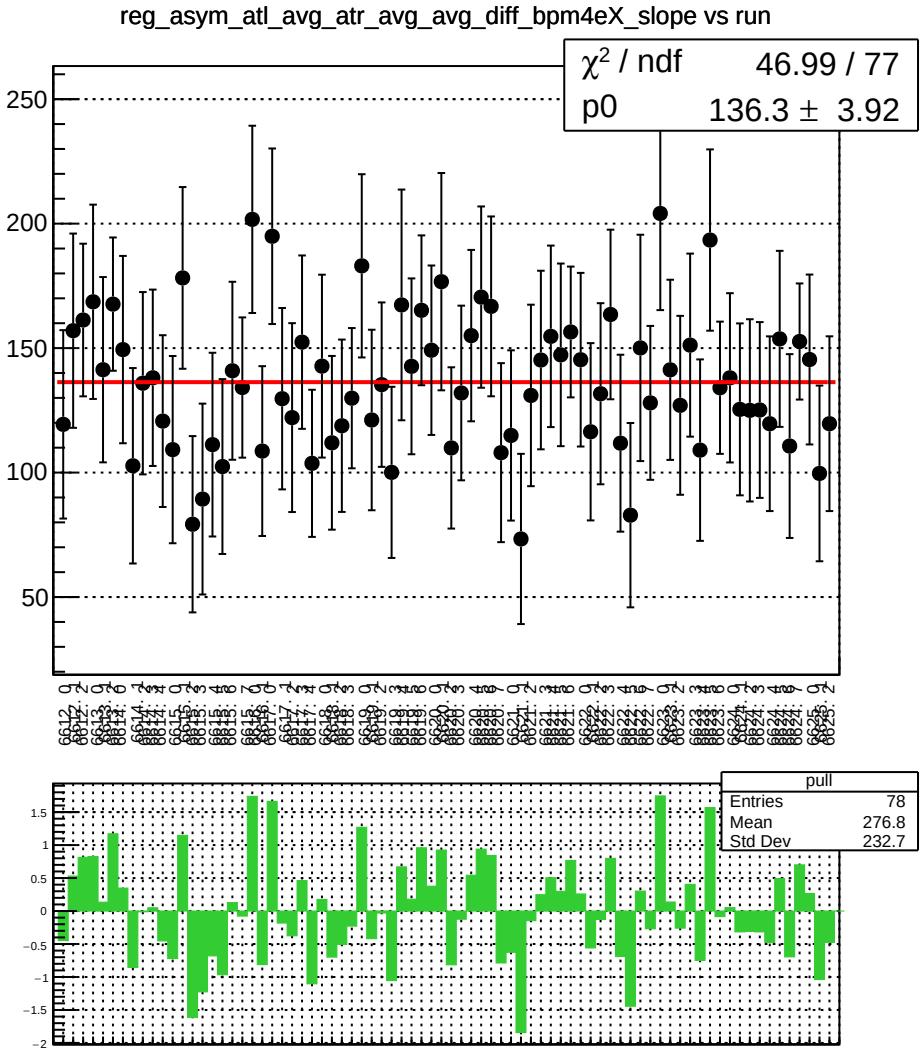

pull1D
Entries 78
Mean −0.01999
Std Dev 0.9316

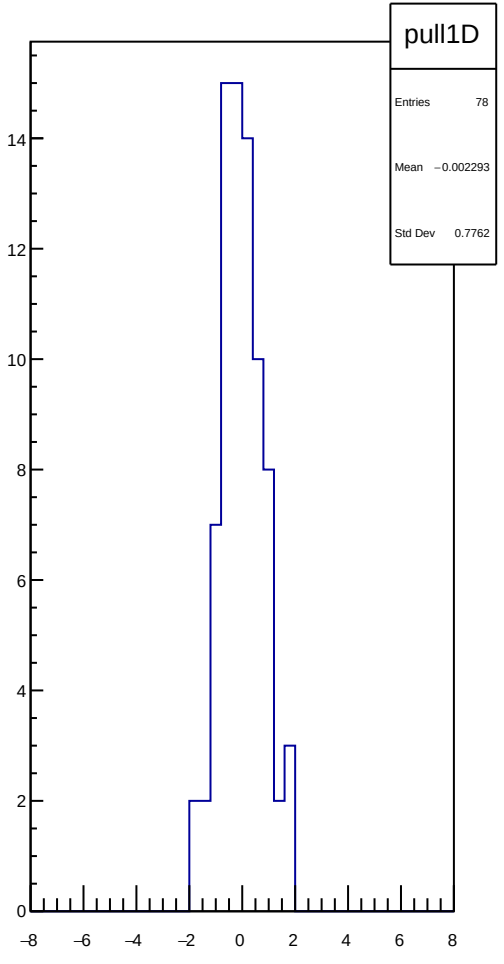

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 48.02 / 77
p0 −150.8 ± 3.676
pull
Entries 78
Mean 375.7
Std Dev 334.7

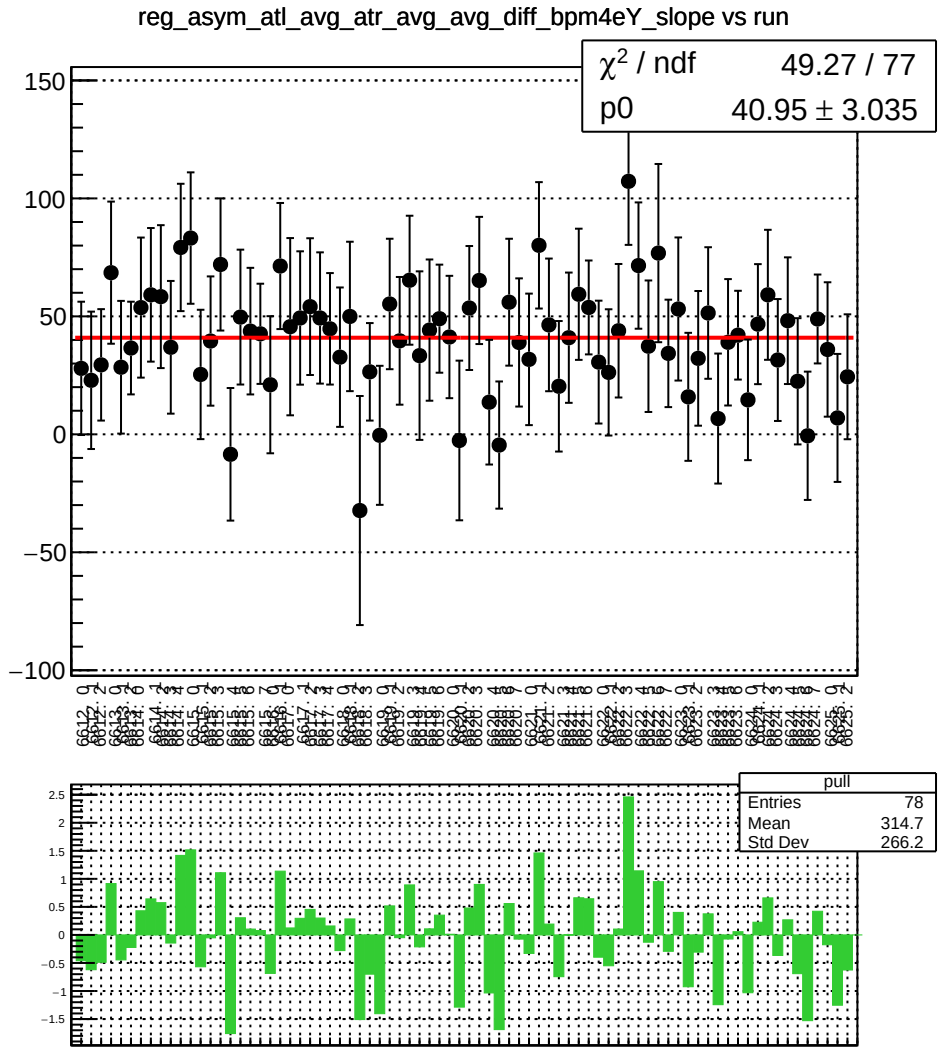

pull1D
Entries 78
Mean 0.003077
Std Dev 0.7846

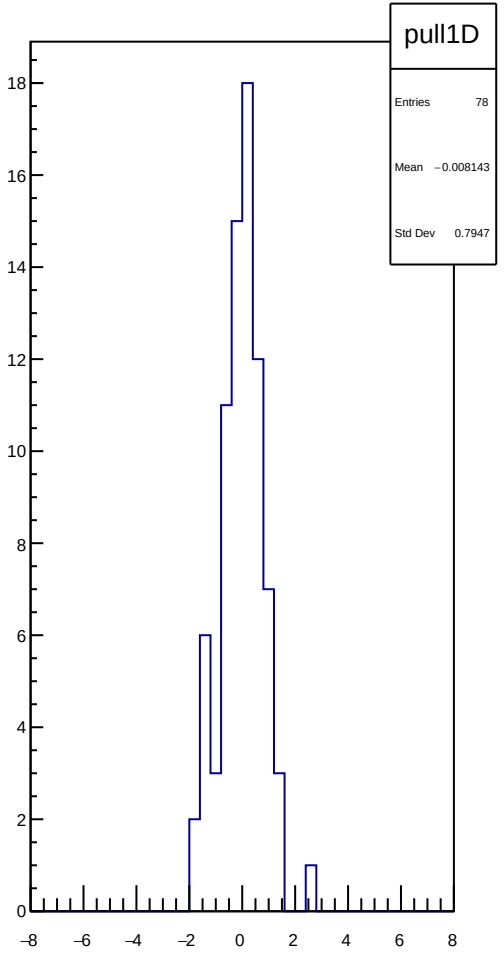

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.68 / 77
p0 0.7001 ± 2.531
pull
Entries 78
Mean 253.4
Std Dev 205

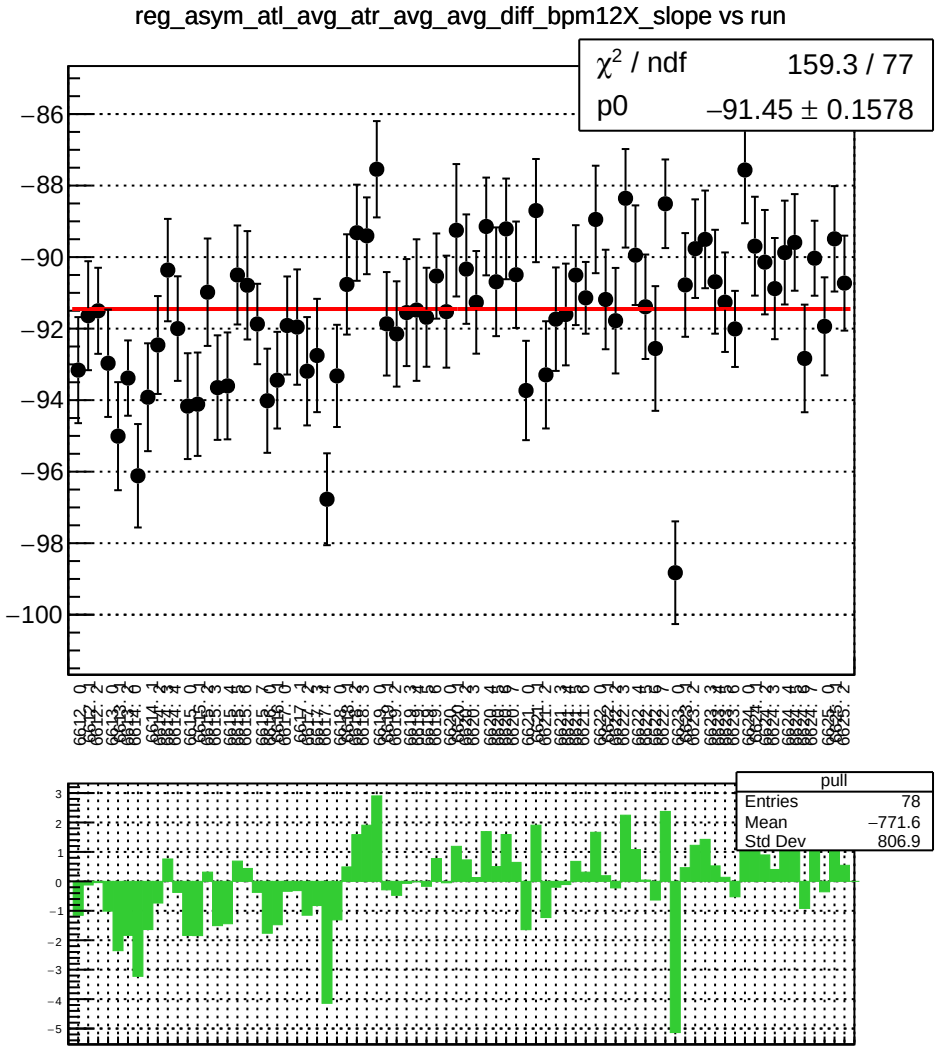

pull1D
Entries 78
Mean 0.009794
Std Dev 0.7818

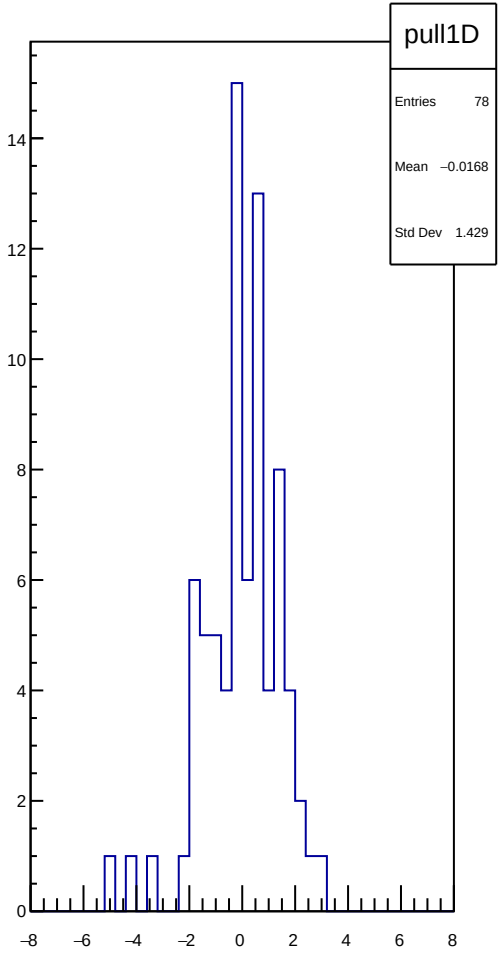

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.99 / 77
p0 136.3 ± 3.92
pull
Entries 78
Mean 276.8
Std Dev 232.7

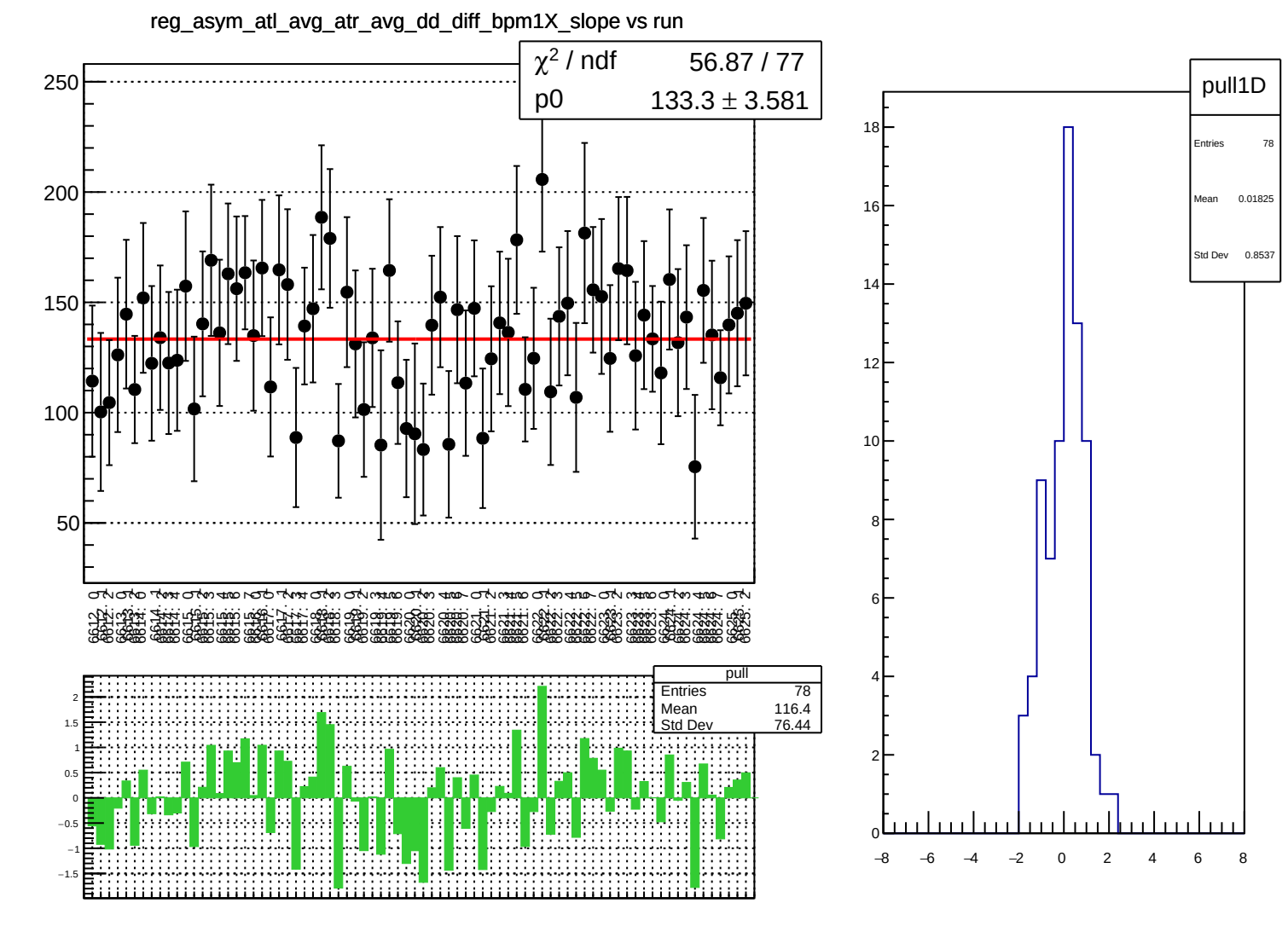

pull1D
Entries 78
Mean −0.002293
Std Dev 0.7762

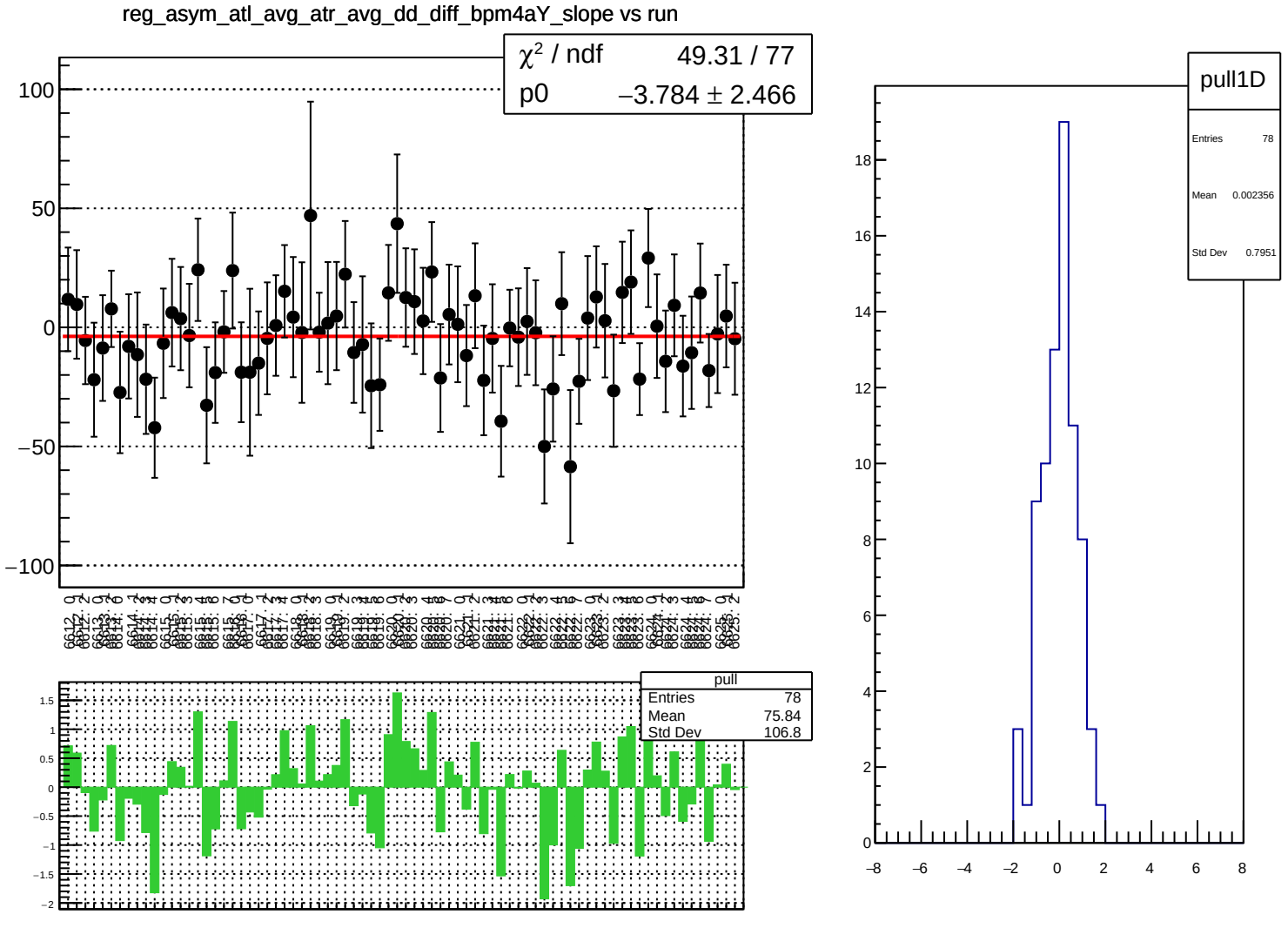

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.27 / 77
p0 40.95 ± 3.035
150
100
50
0
−50
−100
pull
Entries 78
Mean 314.7
Std Dev 266.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

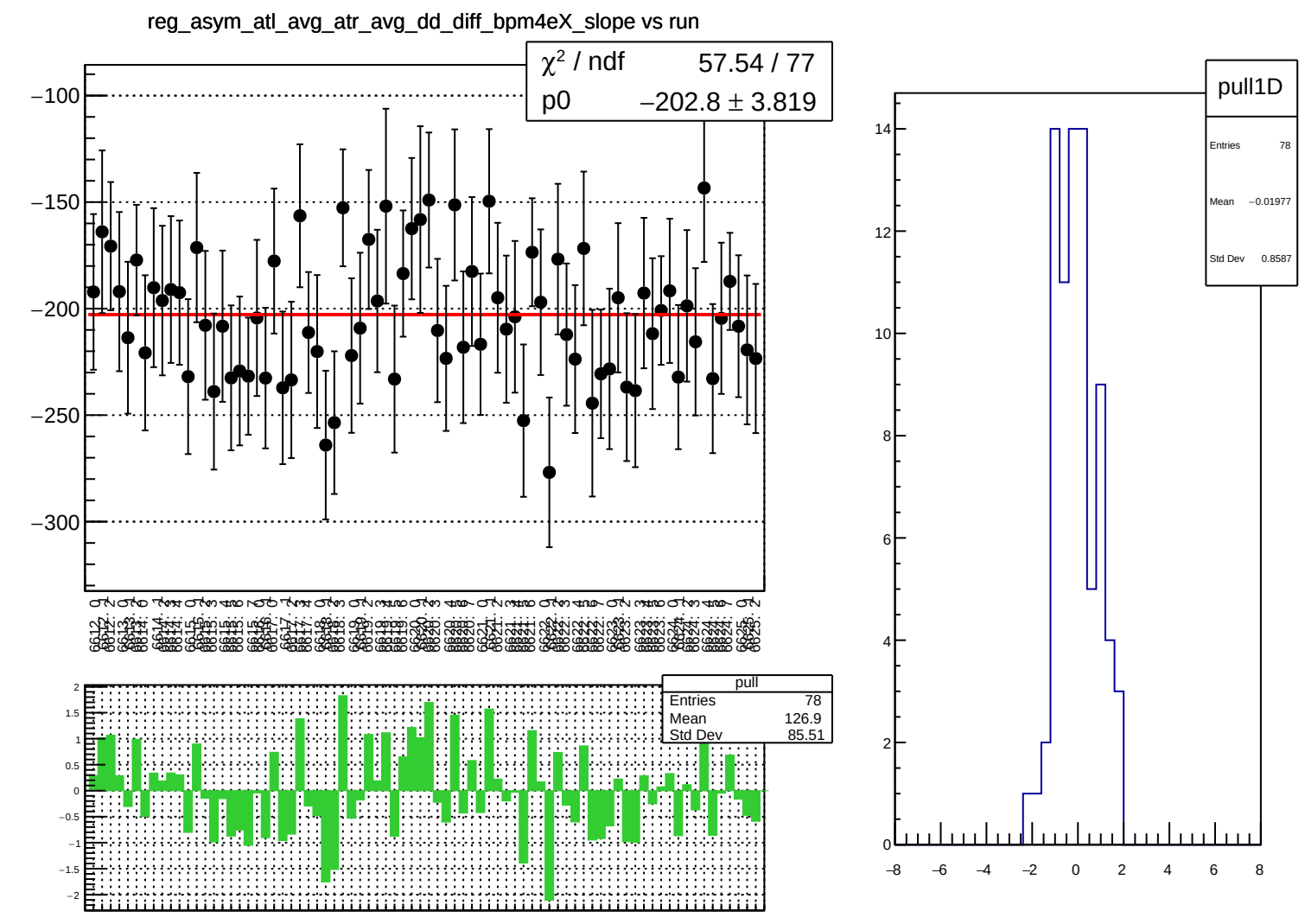

pull1D
Entries 78
Mean −0.008143
Std Dev 0.7947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

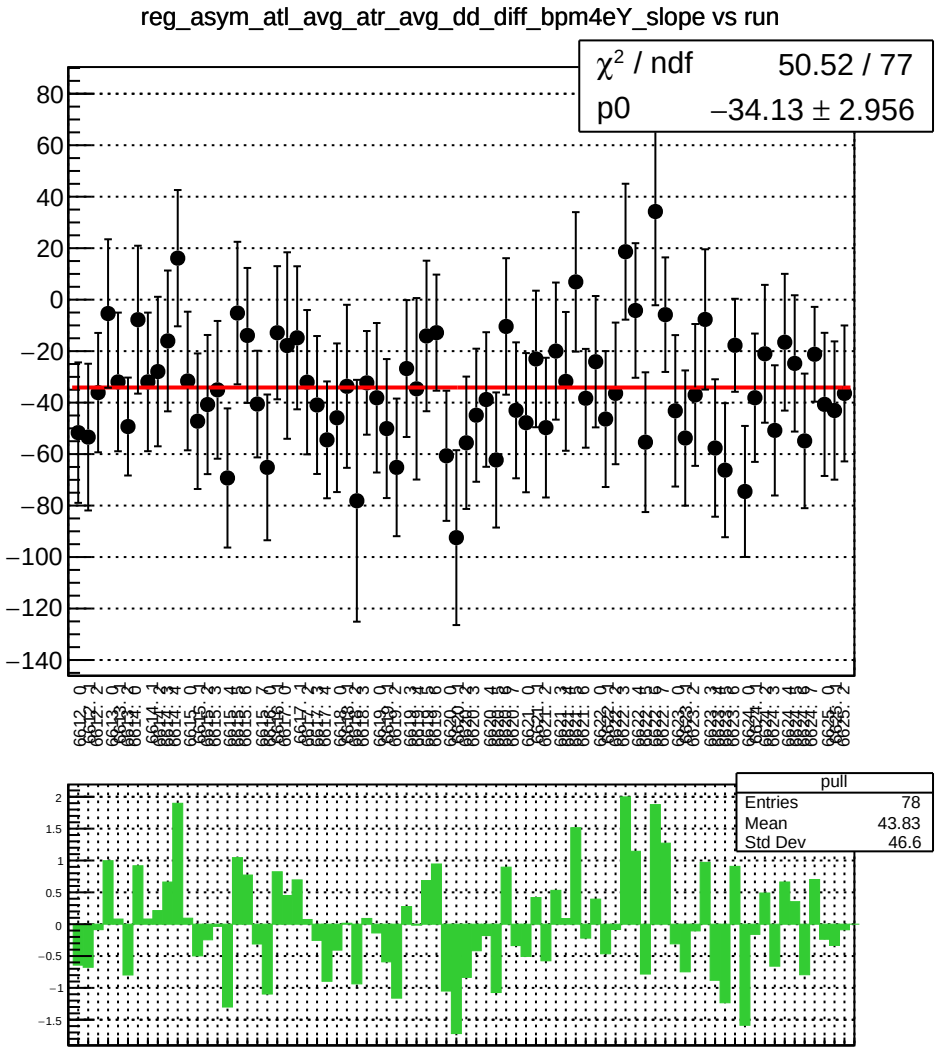

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 159.3 / 77
p0 −91.45 ± 0.1578
pull
Entries 78
Mean −771.6
Std Dev 806.9

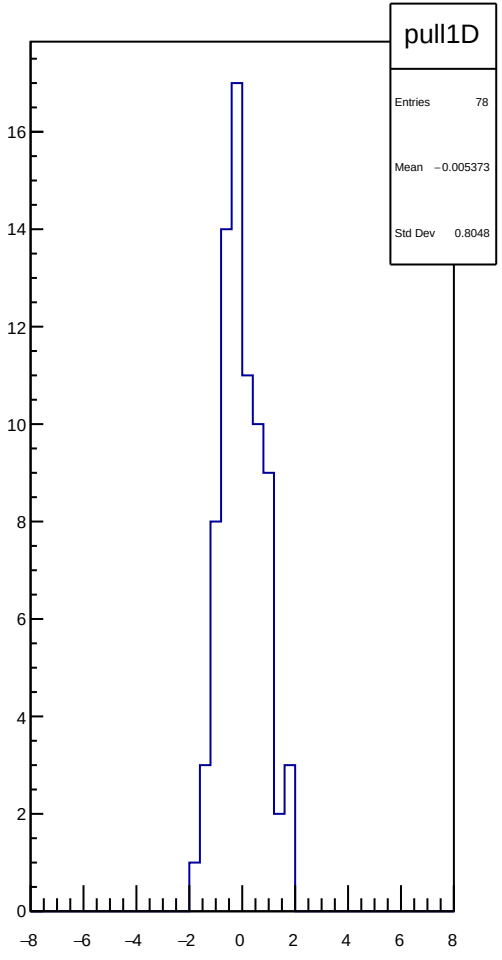

pull1D
Entries 78
Mean −0.0168
Std Dev 1.429

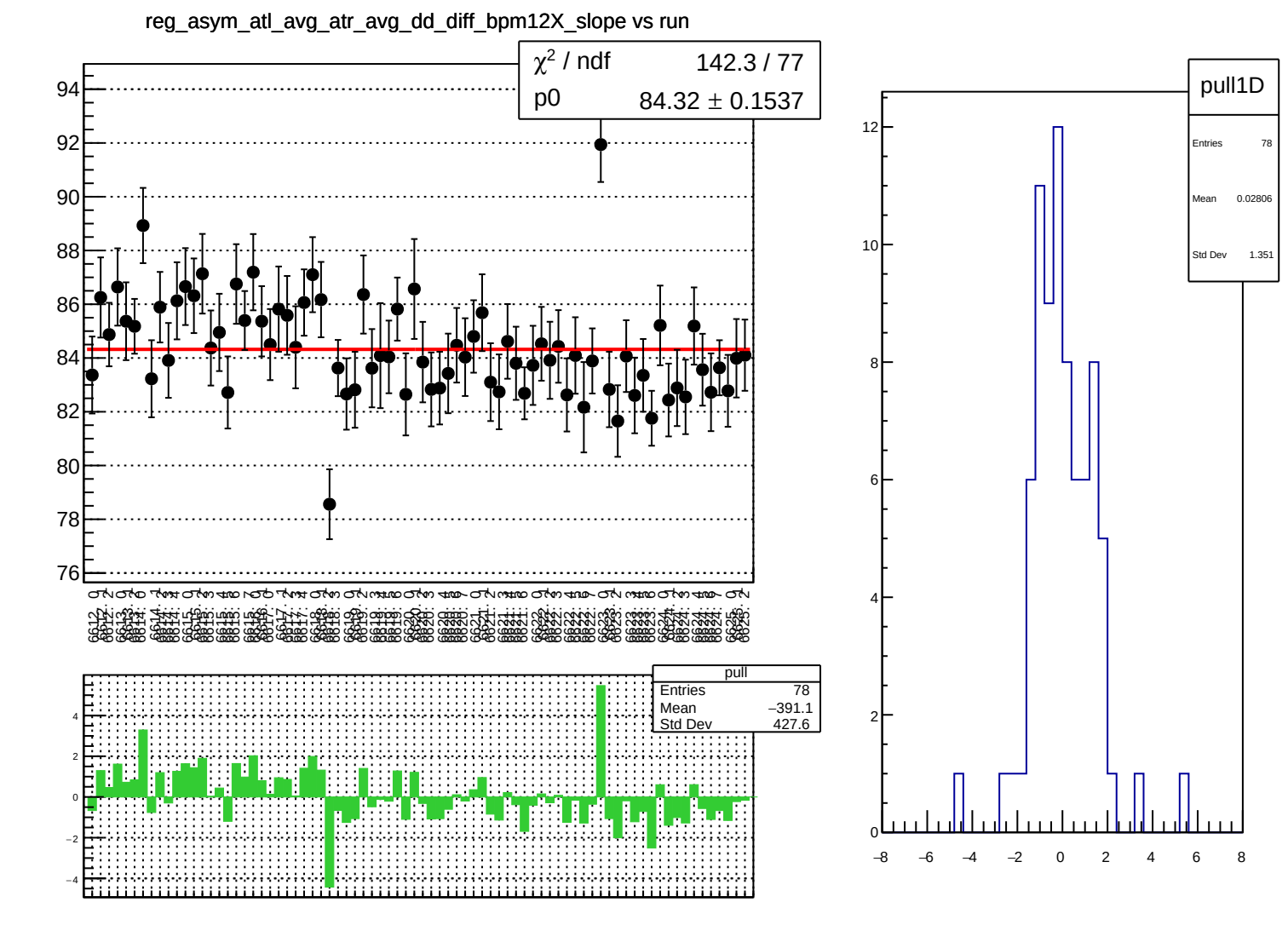

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 56.87 / 77
p0 133.3 ± 3.581
250
200
150
100
50
pull
Entries 78
Mean 116.4
Std Dev 76.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 78
Mean 0.01825
Std Dev 0.8537
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

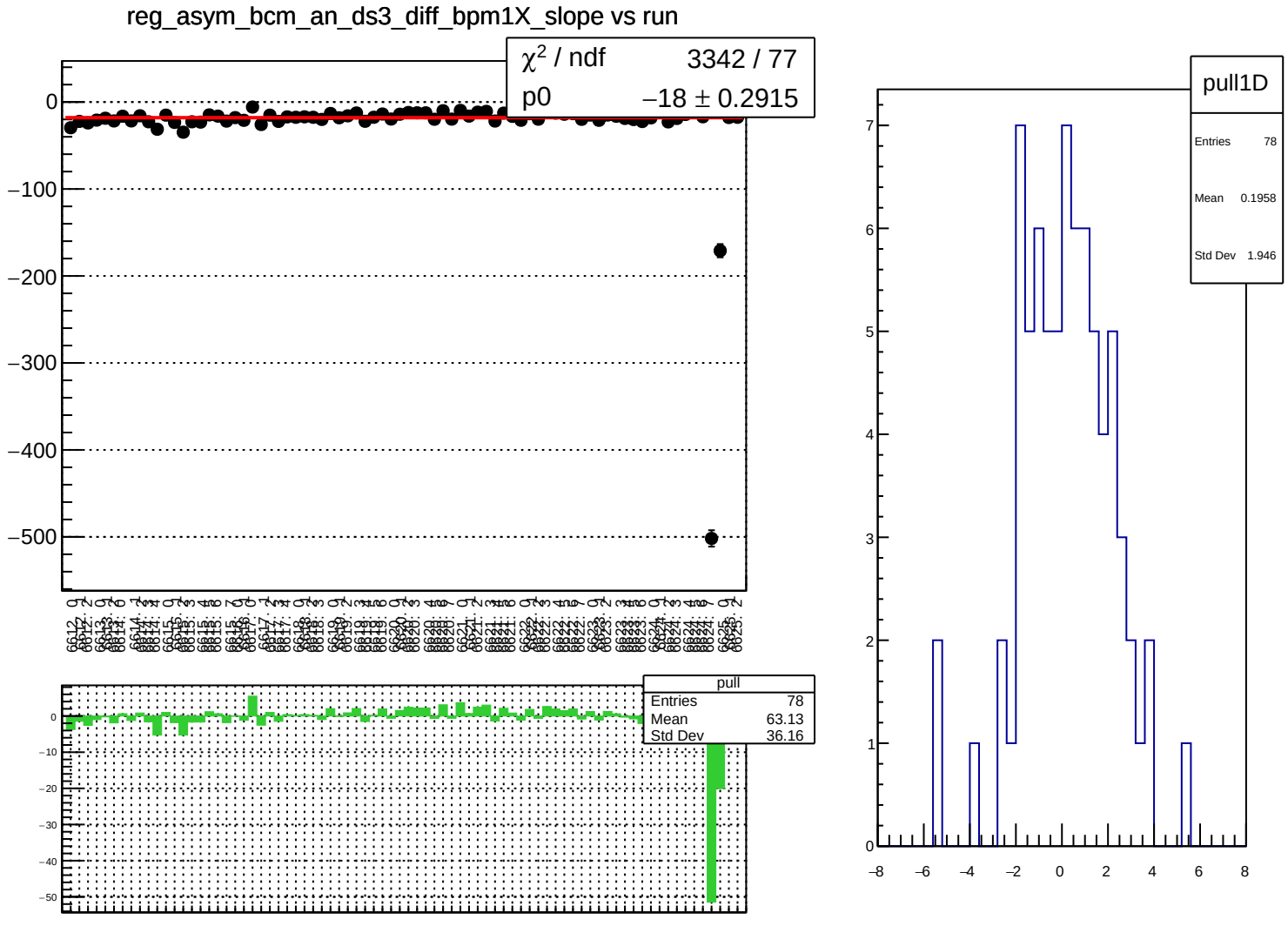

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.31 / 77
p0 −3.784 ± 2.466
pull
Entries 78
Mean 75.84
Std Dev 106.8
pull1D
Entries 78
Mean 0.002356
Std Dev 0.7951

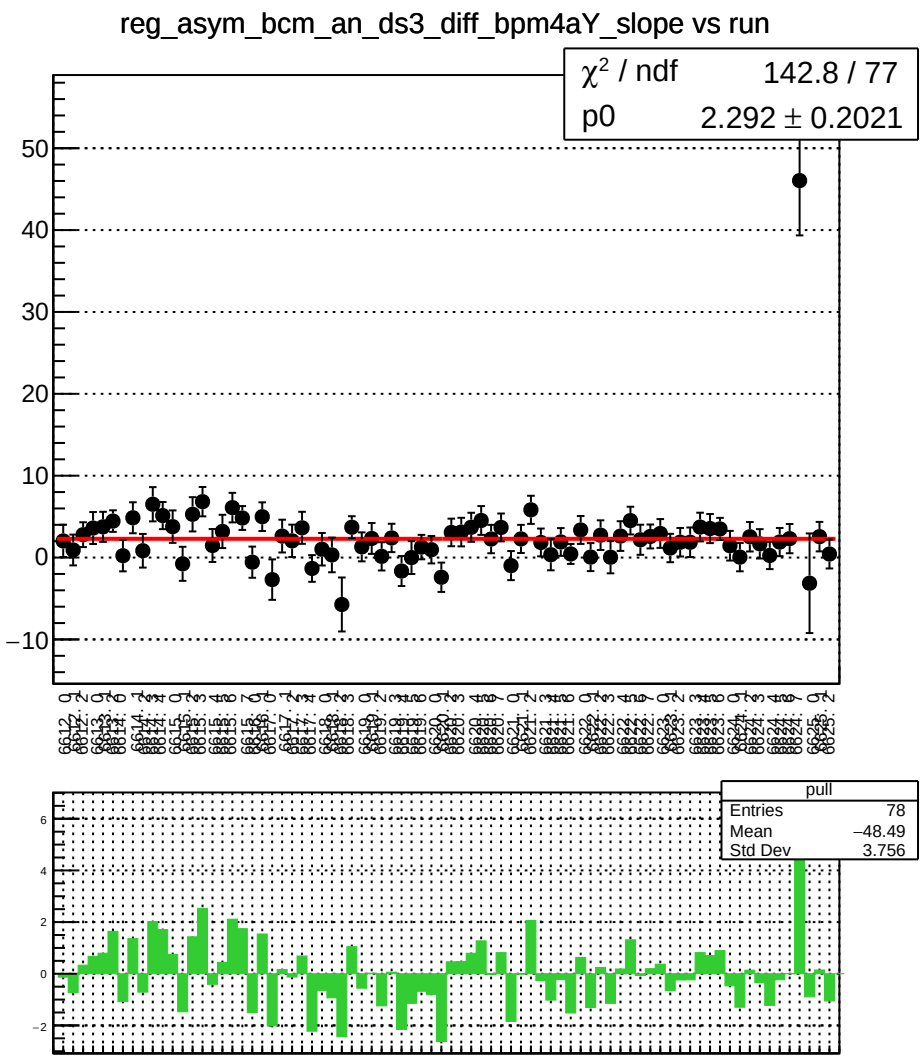

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.54 / 77
p0 −202.8 ± 3.819
−100
−150
−200
−250
−300
pull
Entries 78
Mean 126.9
Std Dev 85.51
pull1D
Entries 78
Mean −0.01977
Std Dev 0.8587

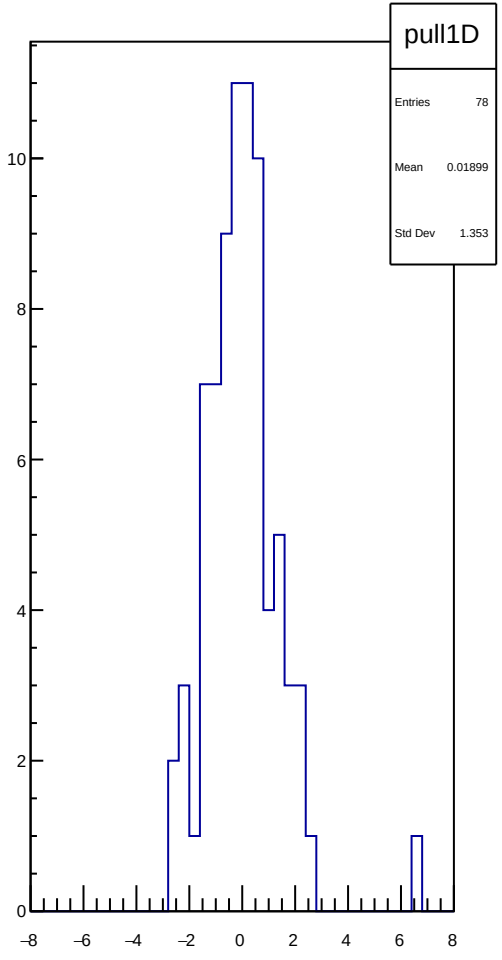

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.52 / 77
p0 −34.13 ± 2.956
pull
Entries 78
Mean 43.83
Std Dev 46.6

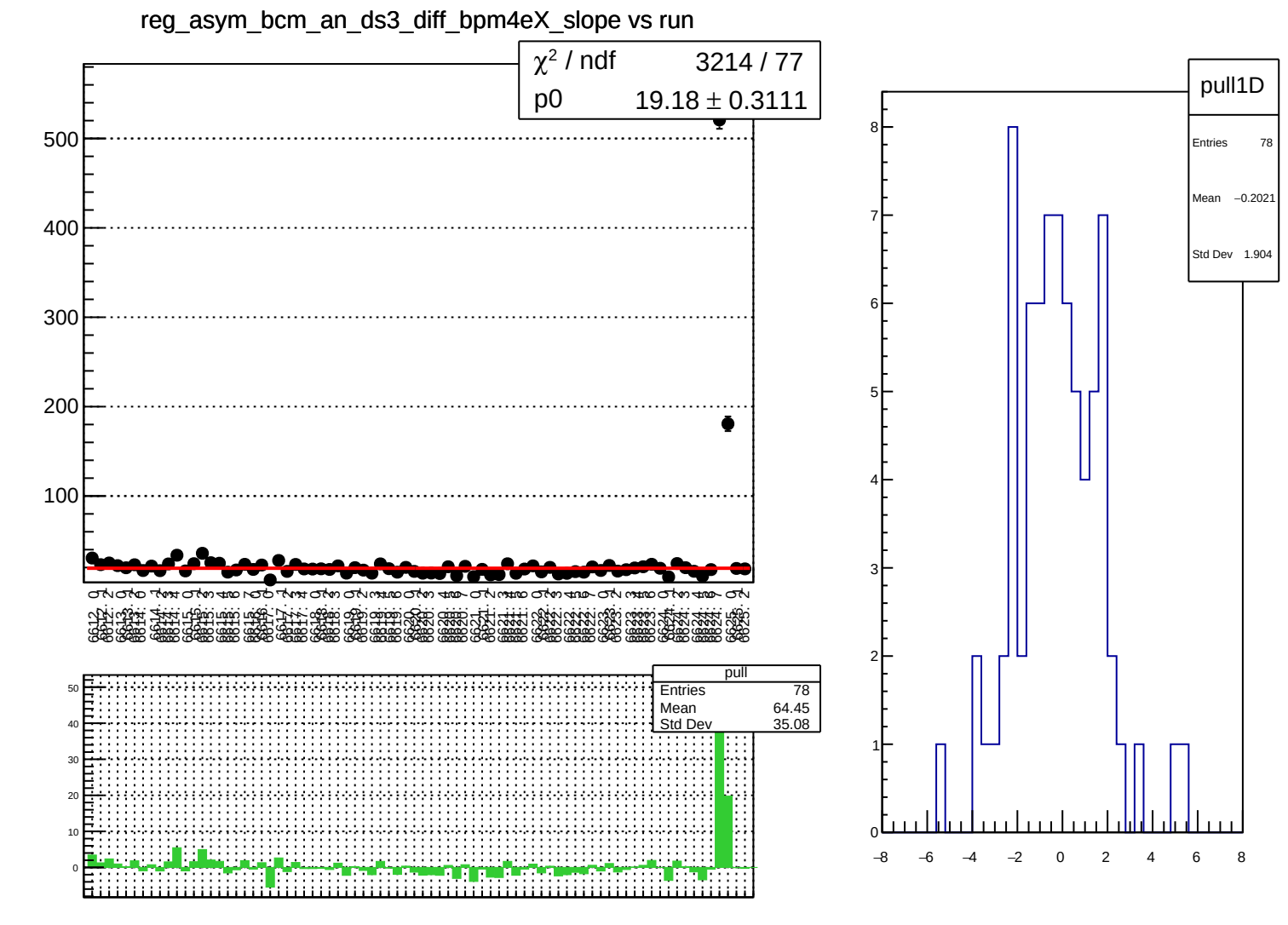

pull1D
Entries 78
Mean −0.005373
Std Dev 0.8048

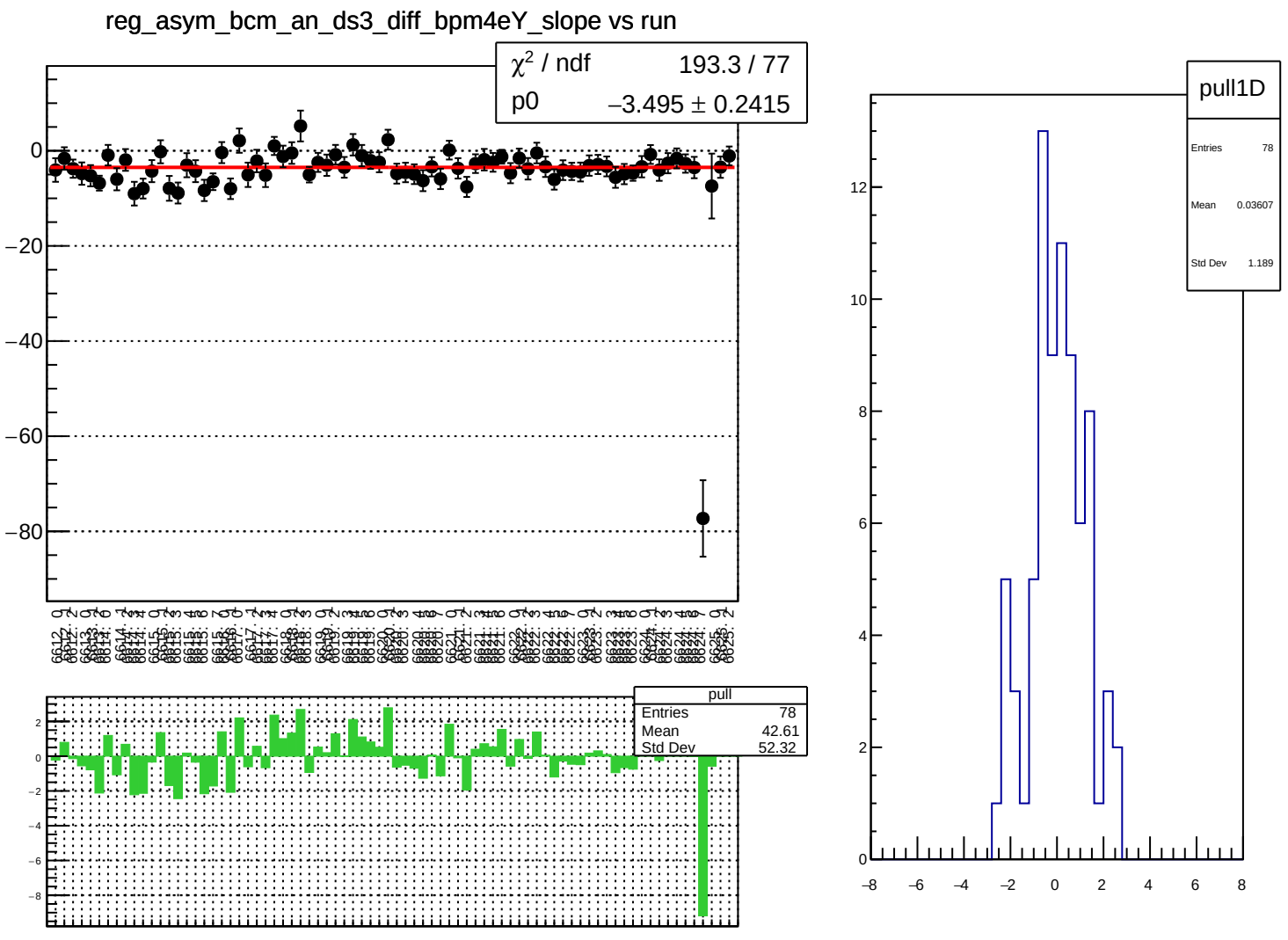

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 142.3 / 77
p0 84.32 ± 0.1537
pull
Entries 78
Mean −391.1
Std Dev 427.6
pull1D
Entries 78
Mean 0.02806
Std Dev 1.351

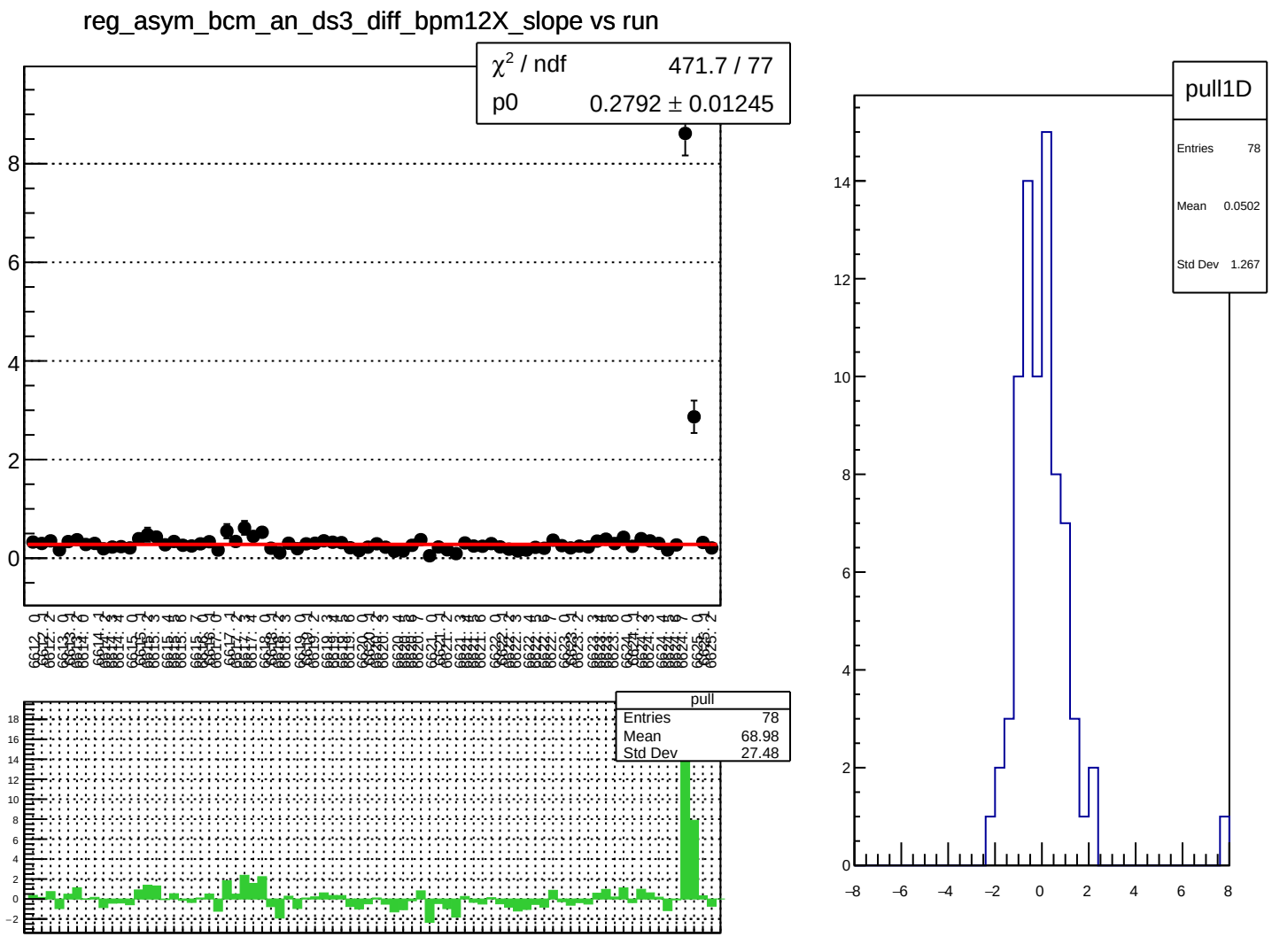

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 3342 / 77
p0 −18 ± 0.2915
pull
Entries 78
Mean 63.13
Std Dev 36.16
pull1D
Entries 78
Mean 0.1958
Std Dev 1.946

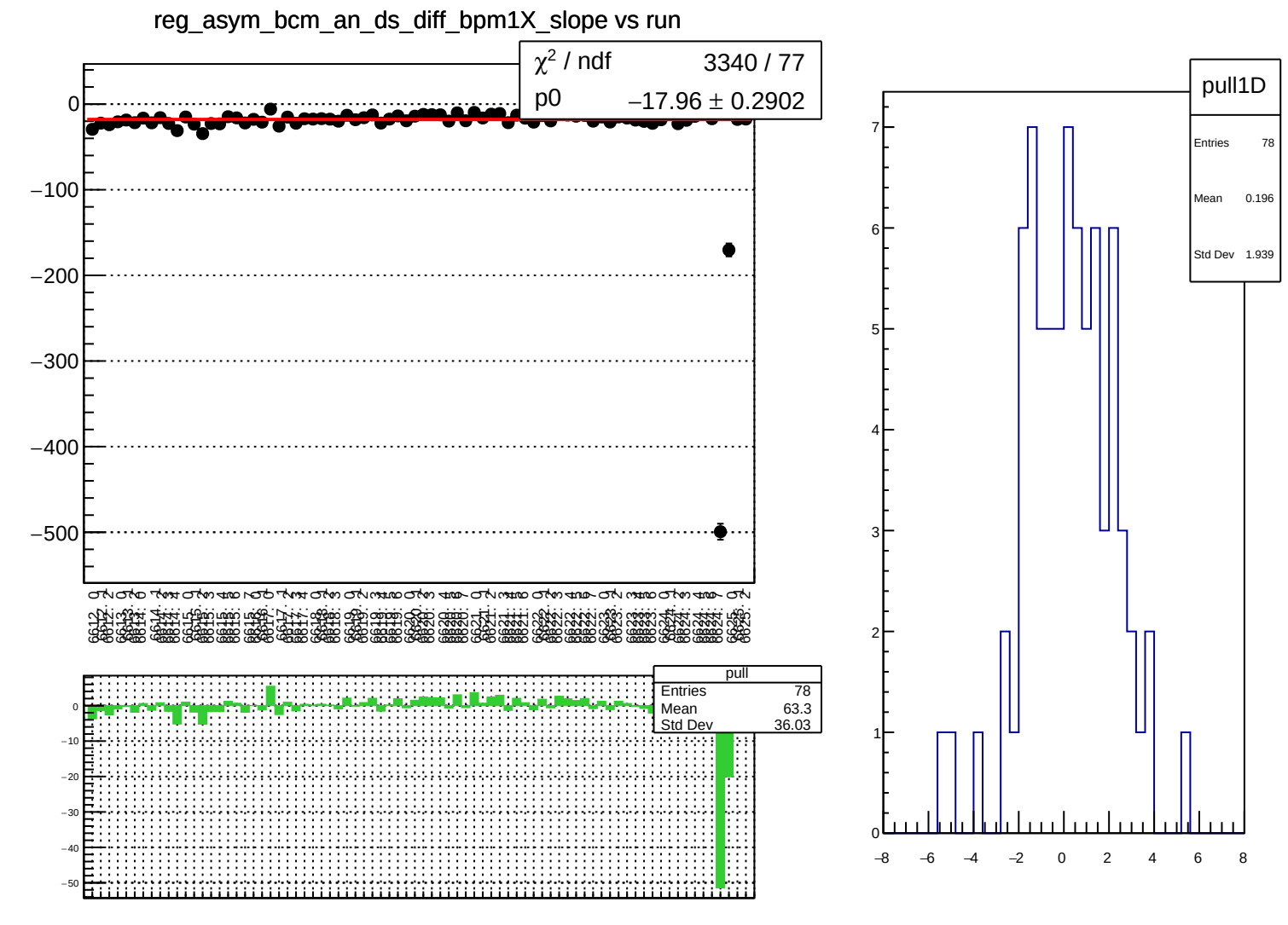

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 142.8 / 77
p0 2.292 ± 0.2021
pull
Entries 78
Mean −48.49
Std Dev 3.756

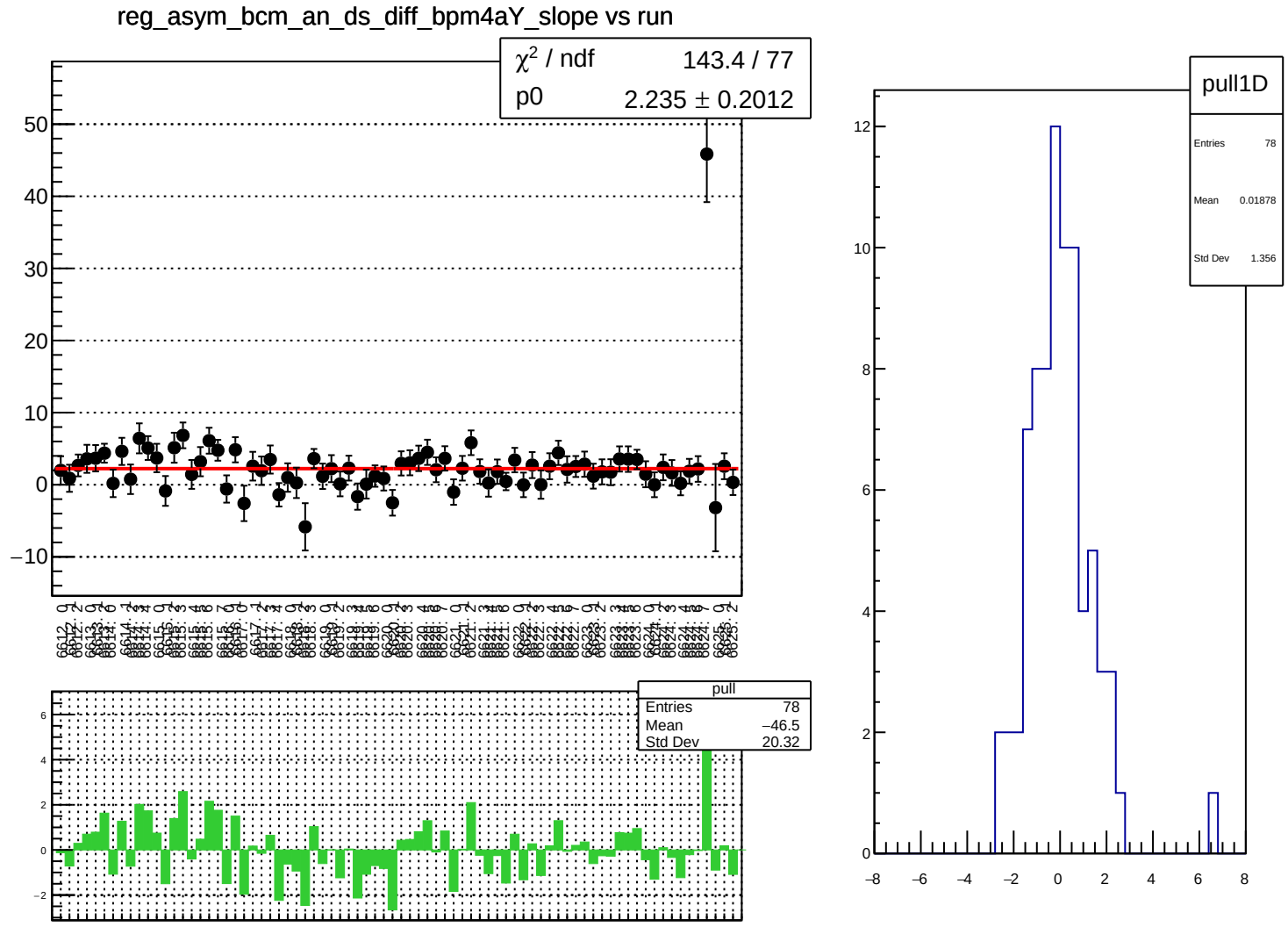

pull1D
Entries 78
Mean 0.01899
Std Dev 1.353

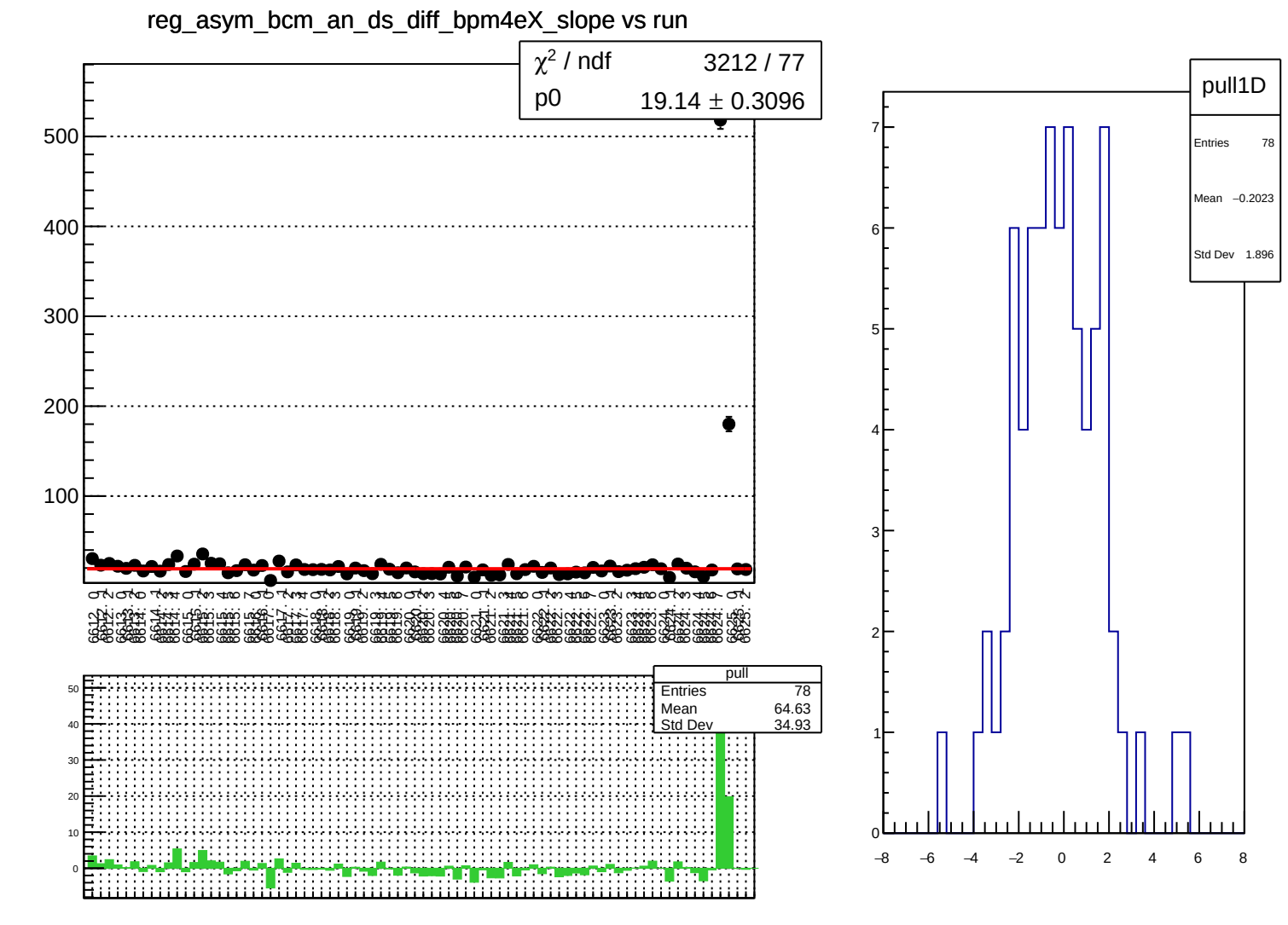

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 3214 / 77
p0 19.18 ± 0.3111
pull
Entries 78
Mean 64.45
Std Dev 35.08
pull1D
Entries 78
Mean −0.2021
Std Dev 1.904

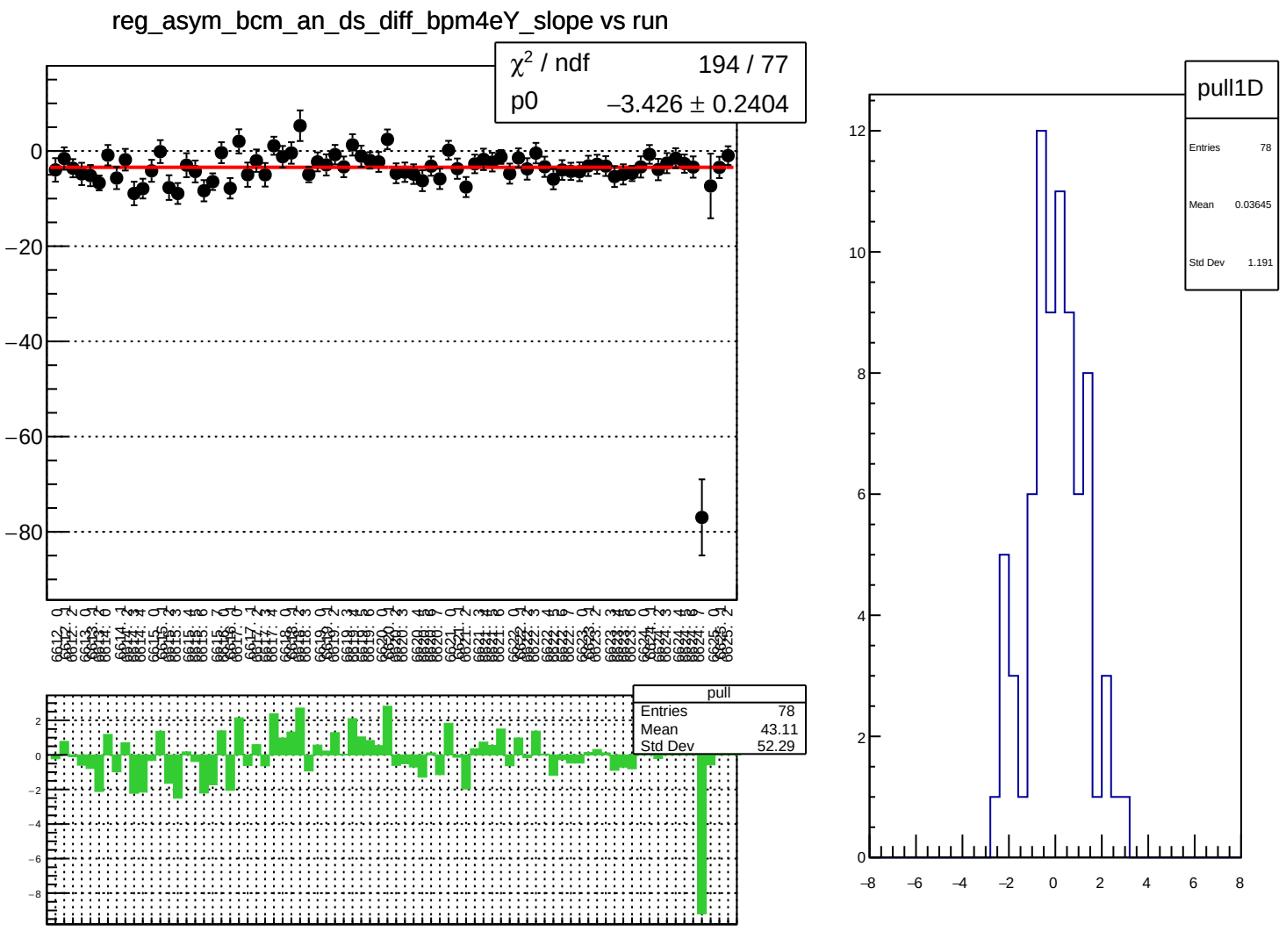

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 193.3 / 77
p0 −3.495 ± 0.2415
0
−20
−40
−60
−80
pull
Entries 78
Mean 42.61
Std Dev 52.32
pull1D
Entries 78
Mean 0.03607
Std Dev 1.189

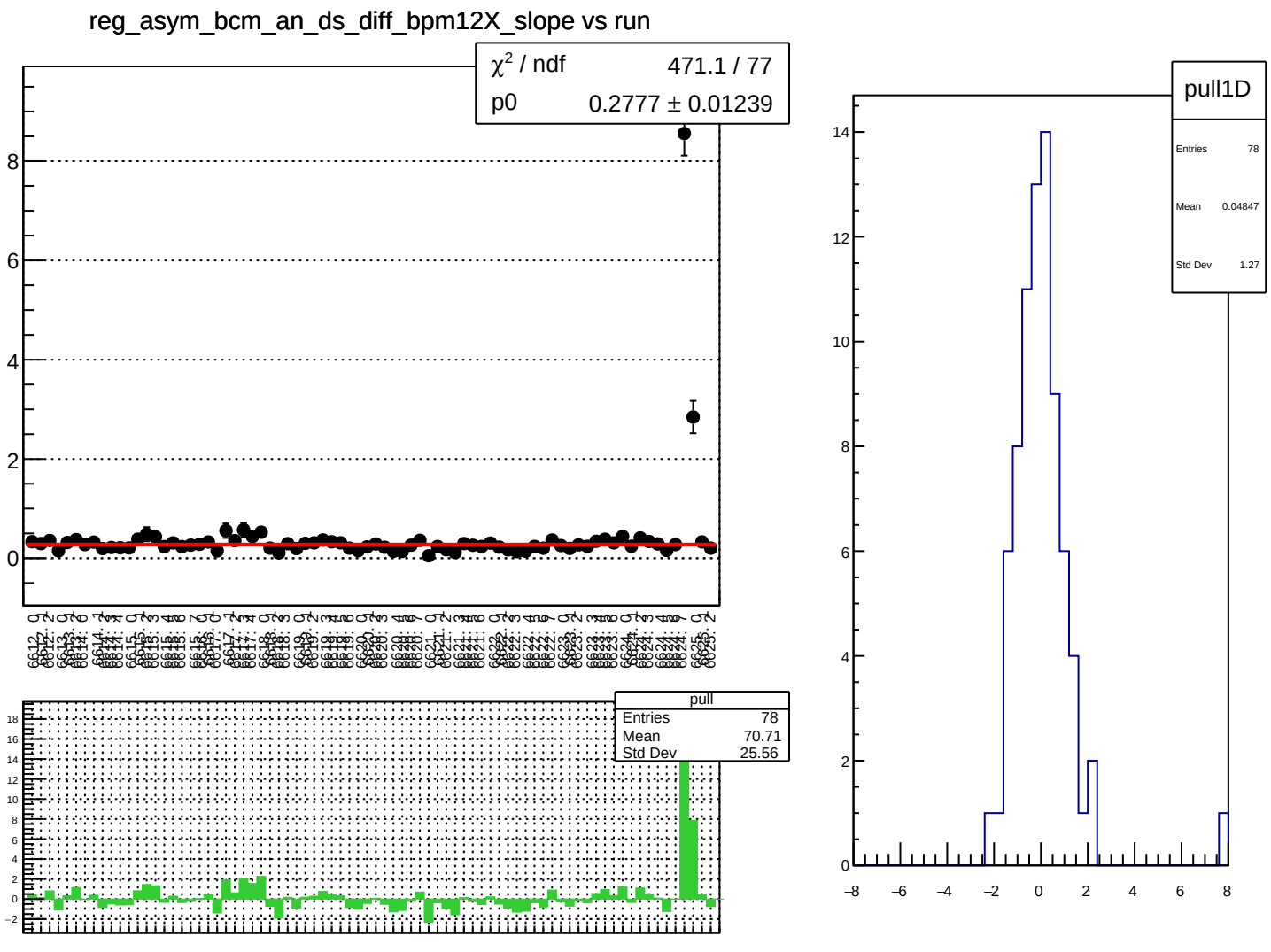

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 471.7 / 77
p0 0.2792 ± 0.01245
pull
Entries 78
Mean 68.98
Std Dev 27.48
pull1D
Entries 78
Mean 0.0502
Std Dev 1.267

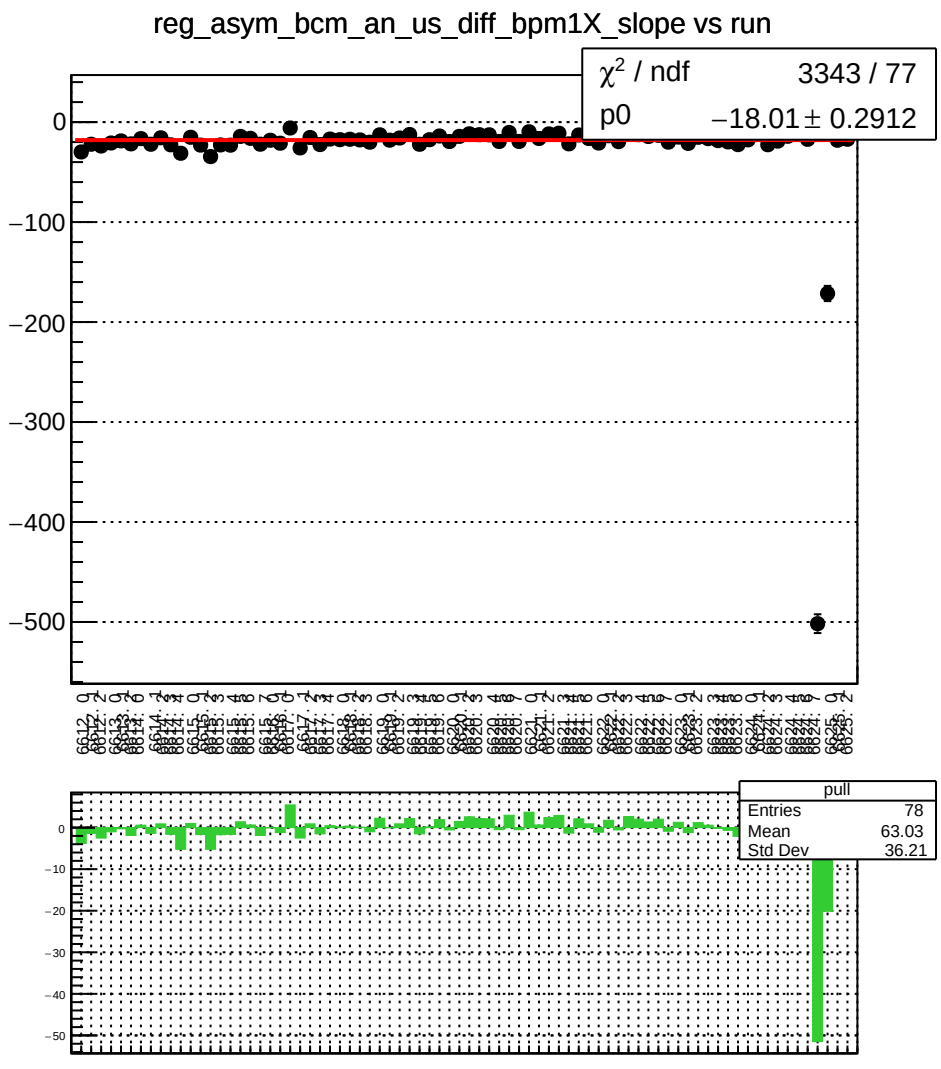

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 3340 / 77
p0 −17.96 ± 0.2902
0
−100
−200
−300
−400
−500
pull
Entries 78
Mean 63.3
Std Dev 36.03
pull1D
Entries 78
Mean 0.196
Std Dev 1.939

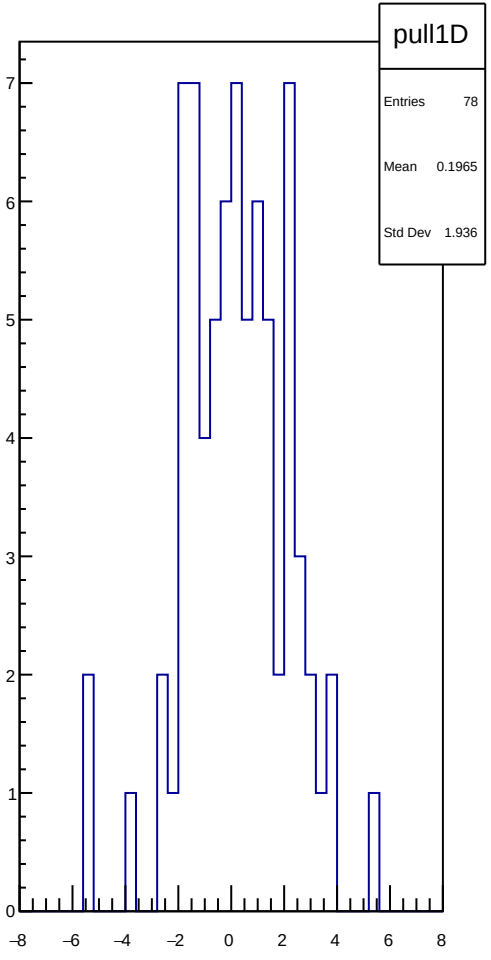

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 143.4 / 77
p0 2.235 ± 0.2012
pull
Entries 78
Mean −46.5
Std Dev 20.32
pull1D
Entries 78
Mean 0.01878
Std Dev 1.356

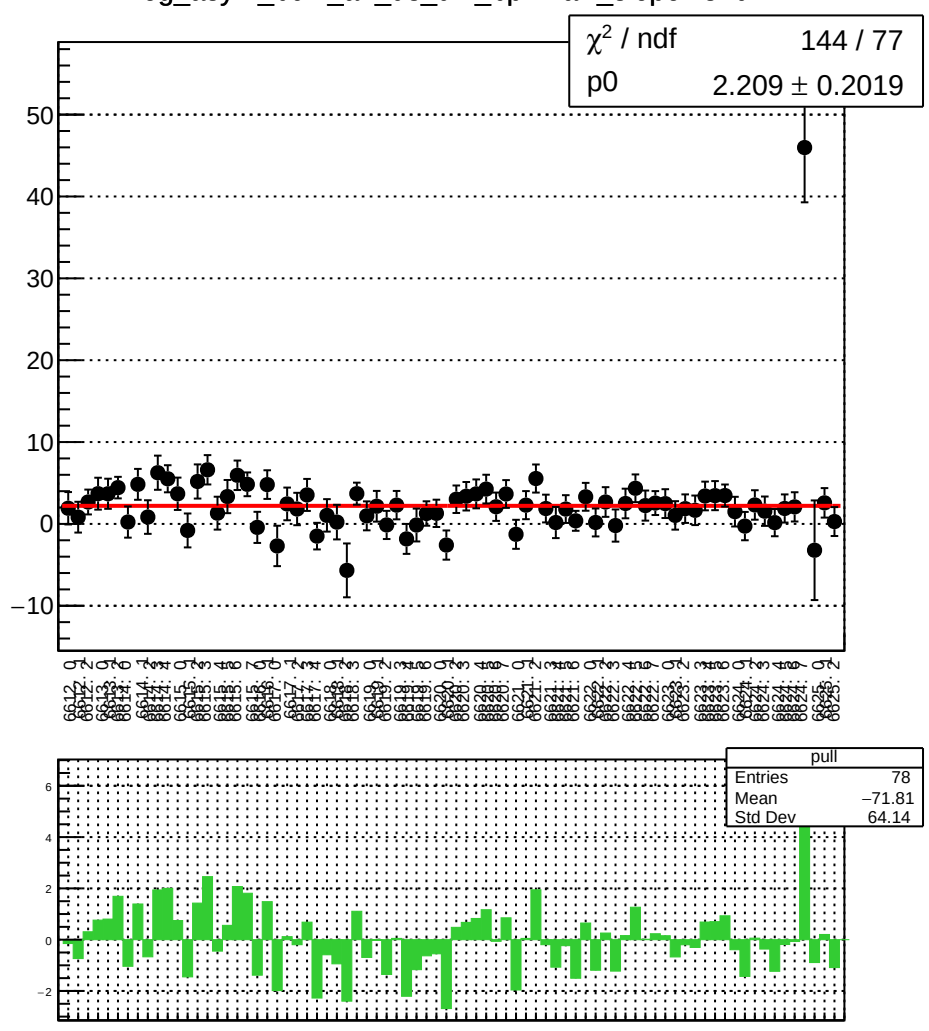

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 3212 / 77
p0 19.14 ± 0.3096
500
400
300
200
100
pull
Entries 78
Mean 64.63
Std Dev 34.93
50
40
30
20
10
0
pull1D
Entries 78
Mean −0.2023
Std Dev 1.896
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

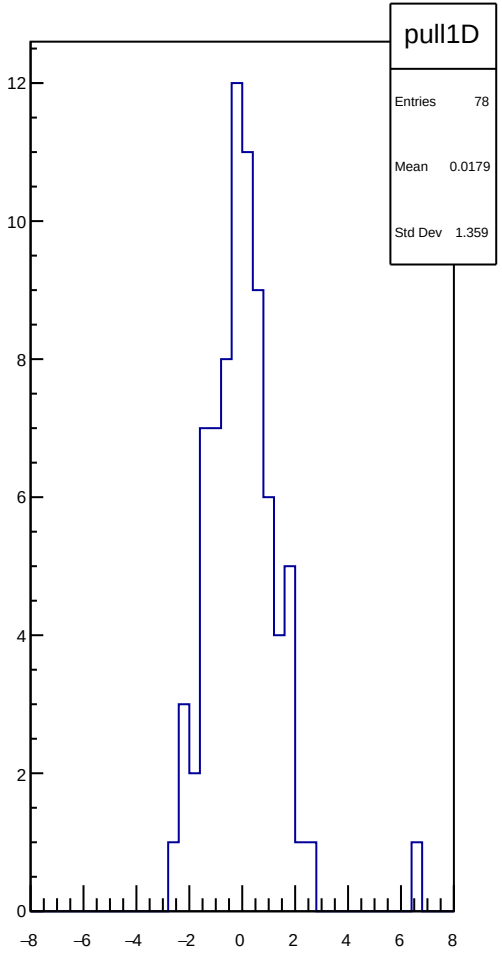

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 194 / 77
p0 −3.426 ± 0.2404
pull
Entries 78
Mean 43.11
Std Dev 52.29
pull1D
Entries 78
Mean 0.03645
Std Dev 1.191

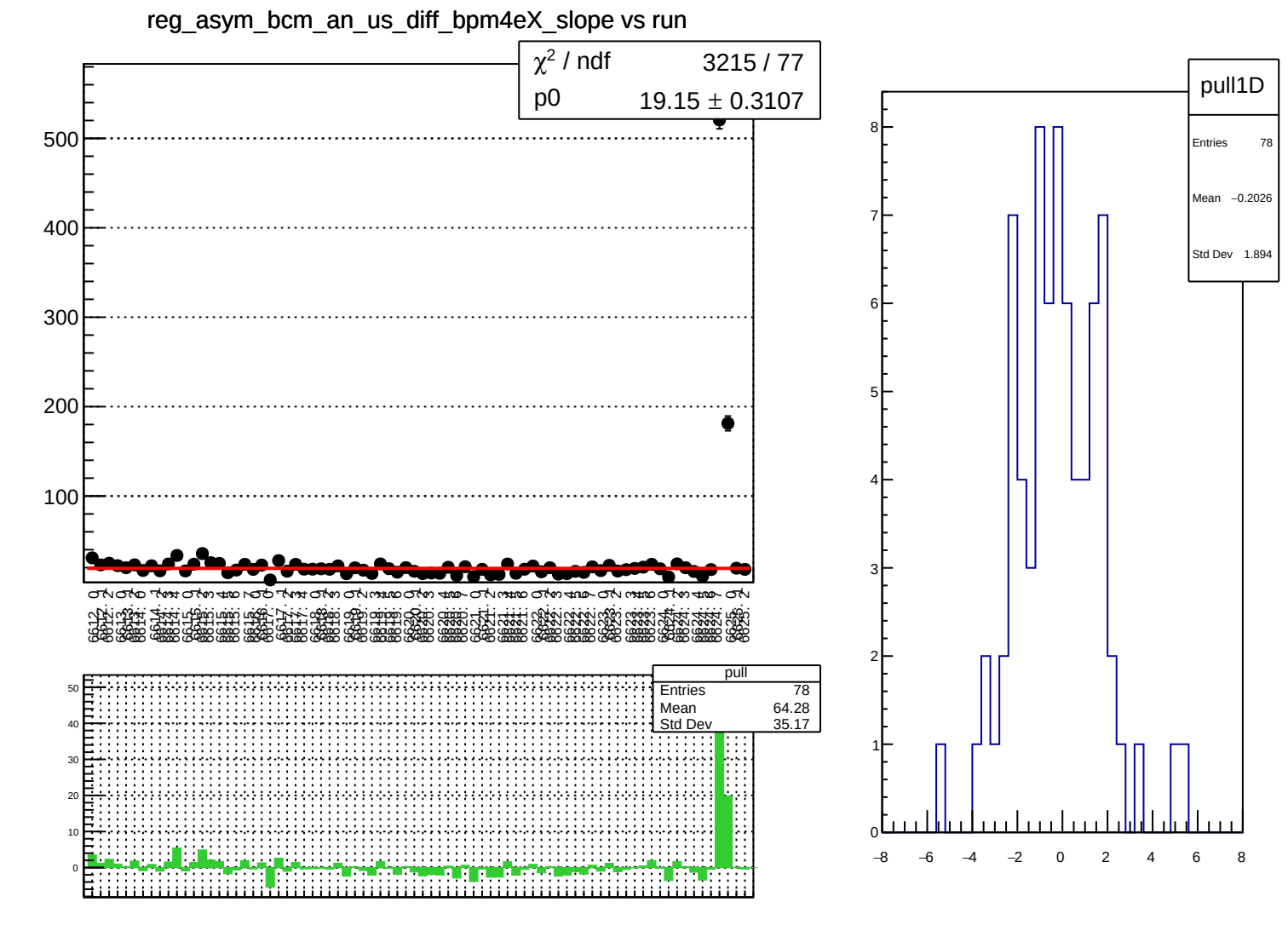

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 471.1 / 77
p0 0.2777 ± 0.01239
pull
Entries 78
Mean 70.71
Std Dev 25.56
pull1D
Entries 78
Mean 0.04847
Std Dev 1.27

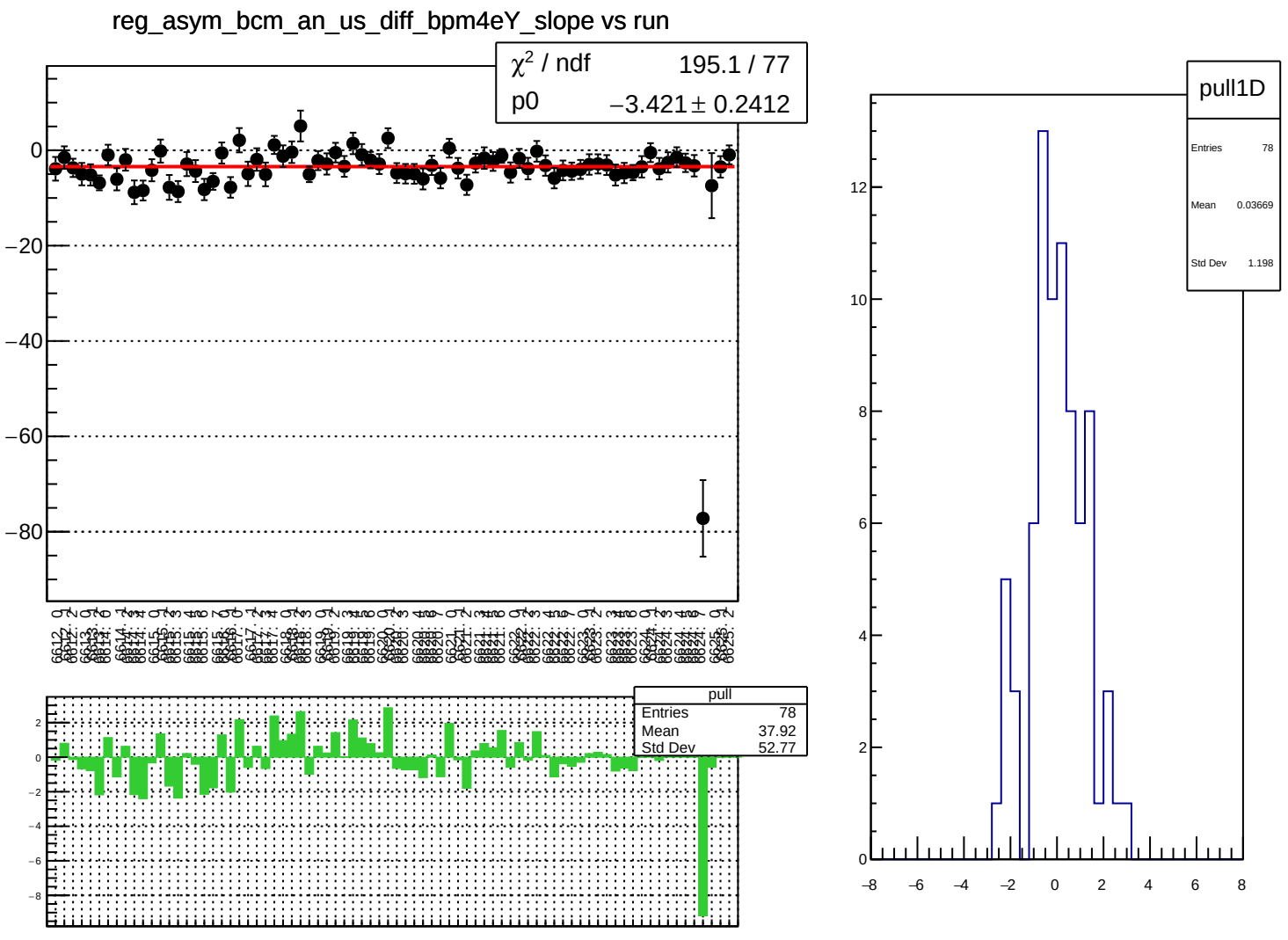

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 3343 / 77
p0 −18.01 ± 0.2912
0
−100
−200
−300
−400
−500
pull
Entries 78
Mean 63.03
Std Dev 36.21
0
−10
−20
−30
−40
−50

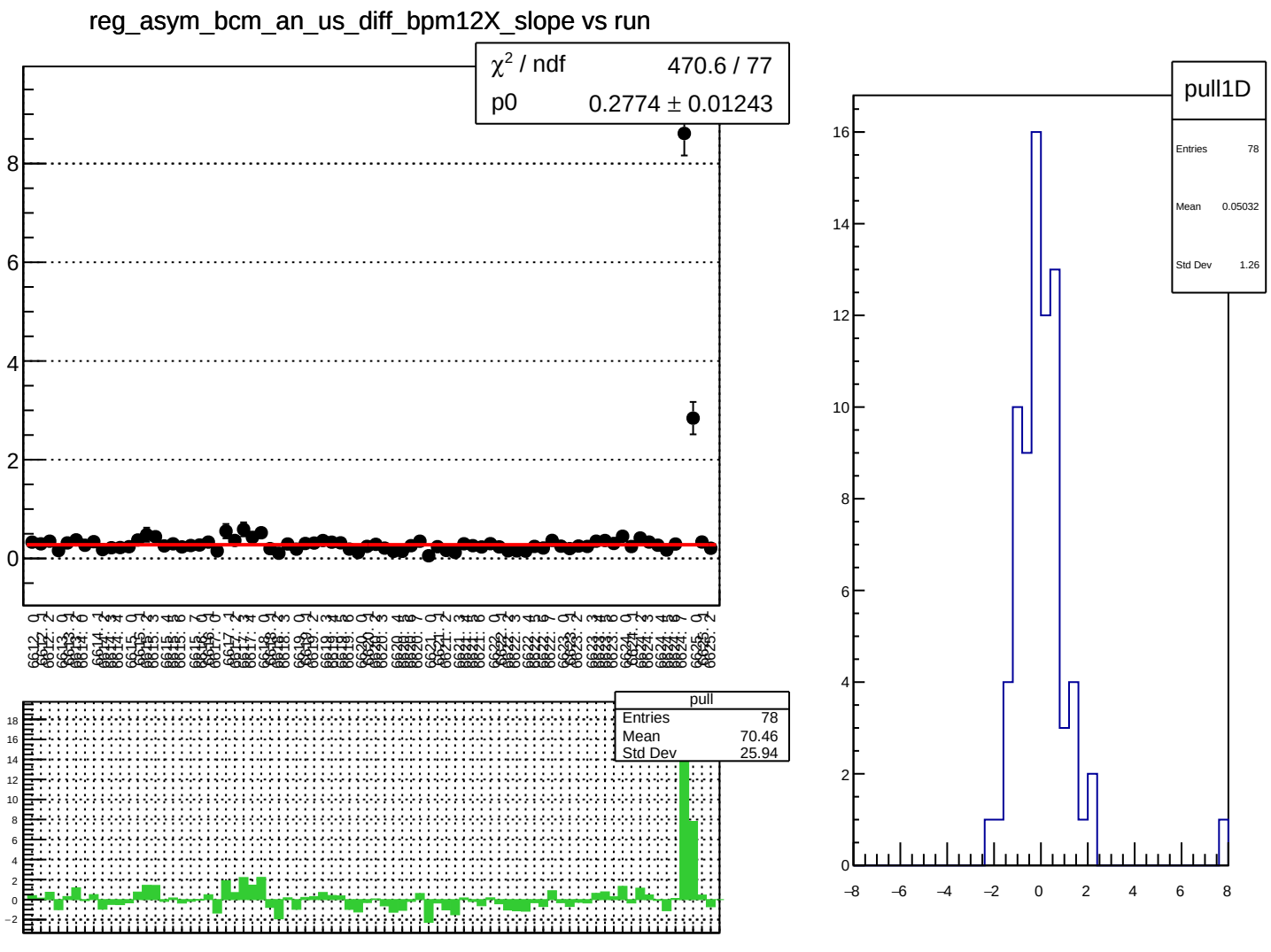

pull1D
Entries 78
Mean 0.1965
Std Dev 1.936
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

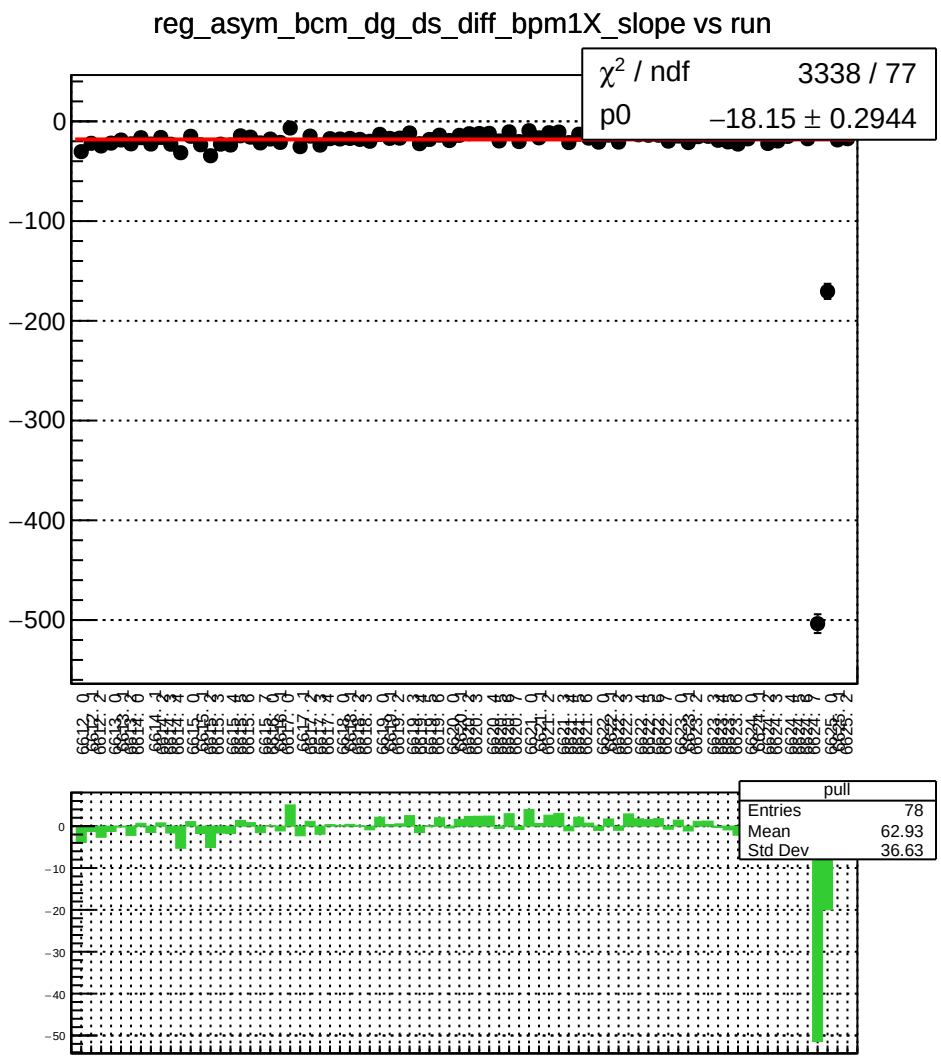

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 144 / 77
p0 2.209 ± 0.2019
pull
Entries 78
Mean −71.81
Std Dev 64.14

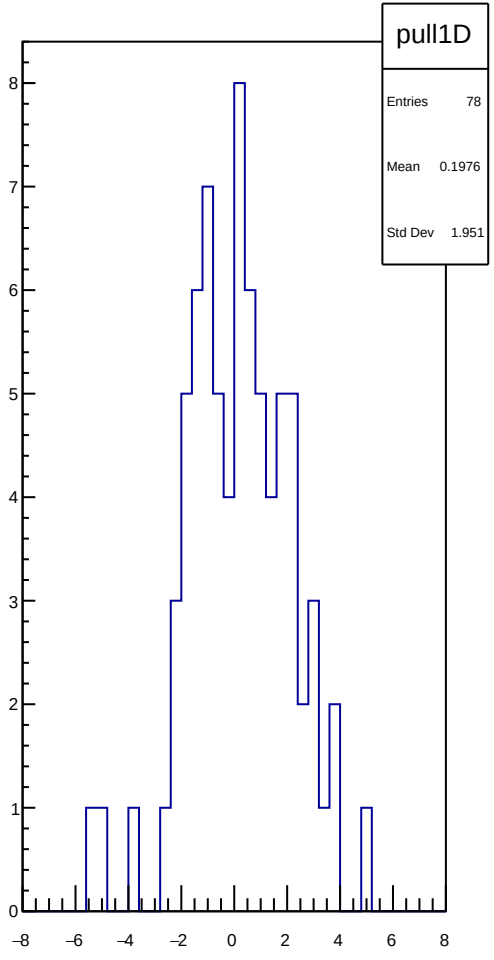

pull1D
Entries 78
Mean 0.0179
Std Dev 1.359

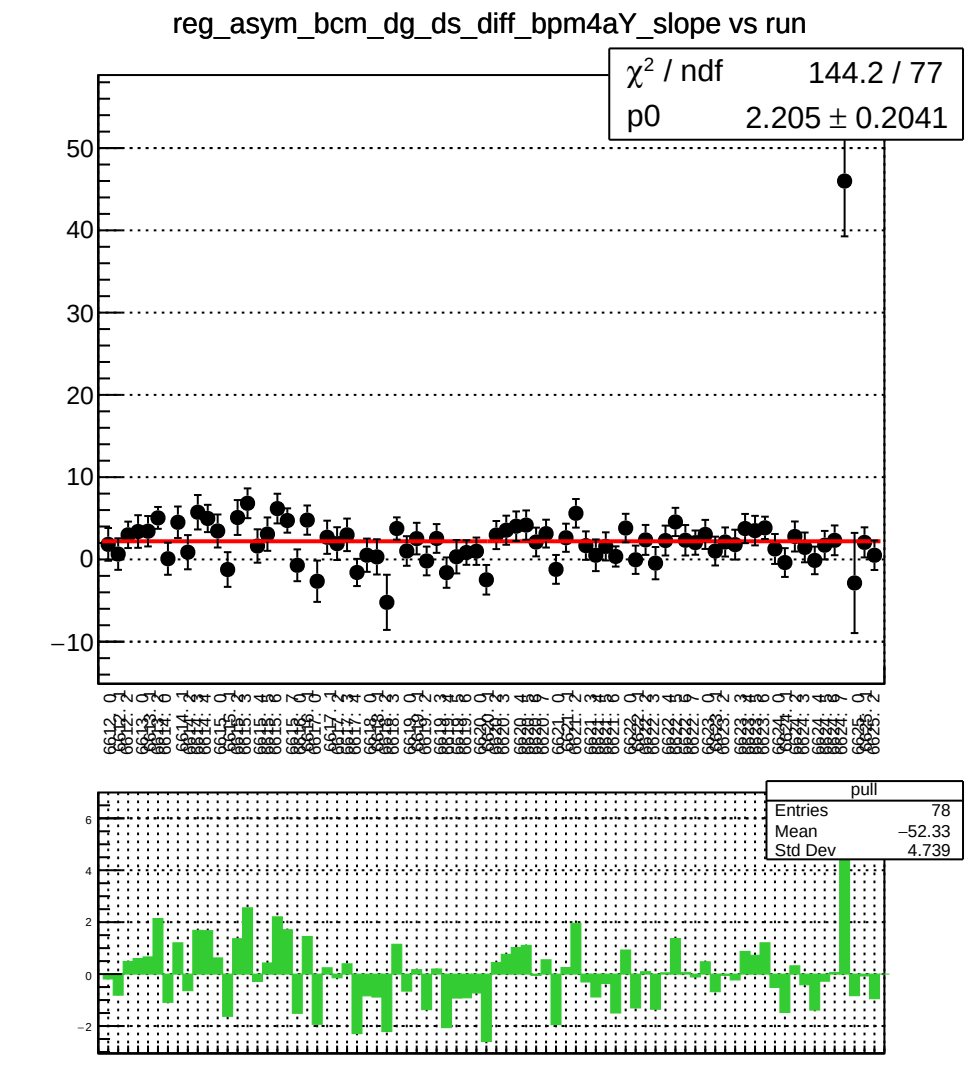

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 3215 / 77
p0 19.15 ± 0.3107
500
400
300
200
100
pull
Entries 78
Mean 64.28
Std Dev 35.17
50
40
30
20
10
0
pull1D
Entries 78
Mean −0.2026
Std Dev 1.894
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

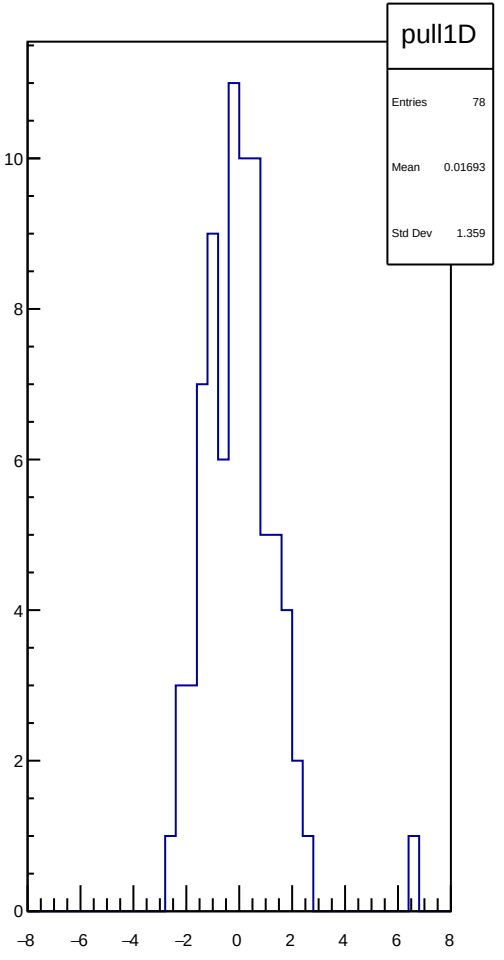

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 195.1 / 77
p0 −3.421 ± 0.2412
0
−20
−40
−60
−80
pull
Entries 78
Mean 37.92
Std Dev 52.77
2
0
−2
−4
−6
−8
pull1D
Entries 78
Mean 0.03669
Std Dev 1.198
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

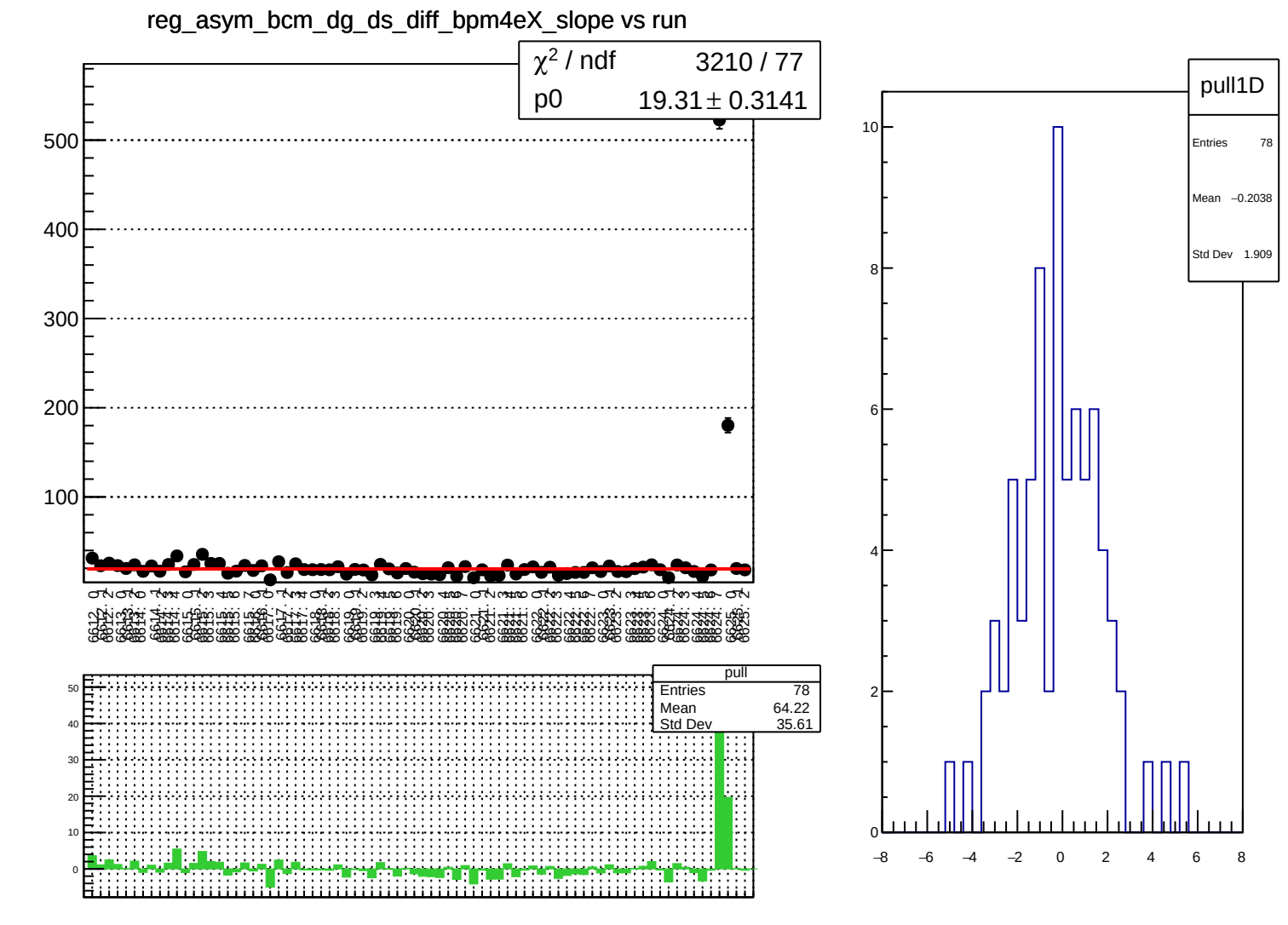

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 470.6 / 77
p0 0.2774 ± 0.01243
pull
Entries 78
Mean 70.46
Std Dev 25.94
pull1D
Entries 78
Mean 0.05032
Std Dev 1.26

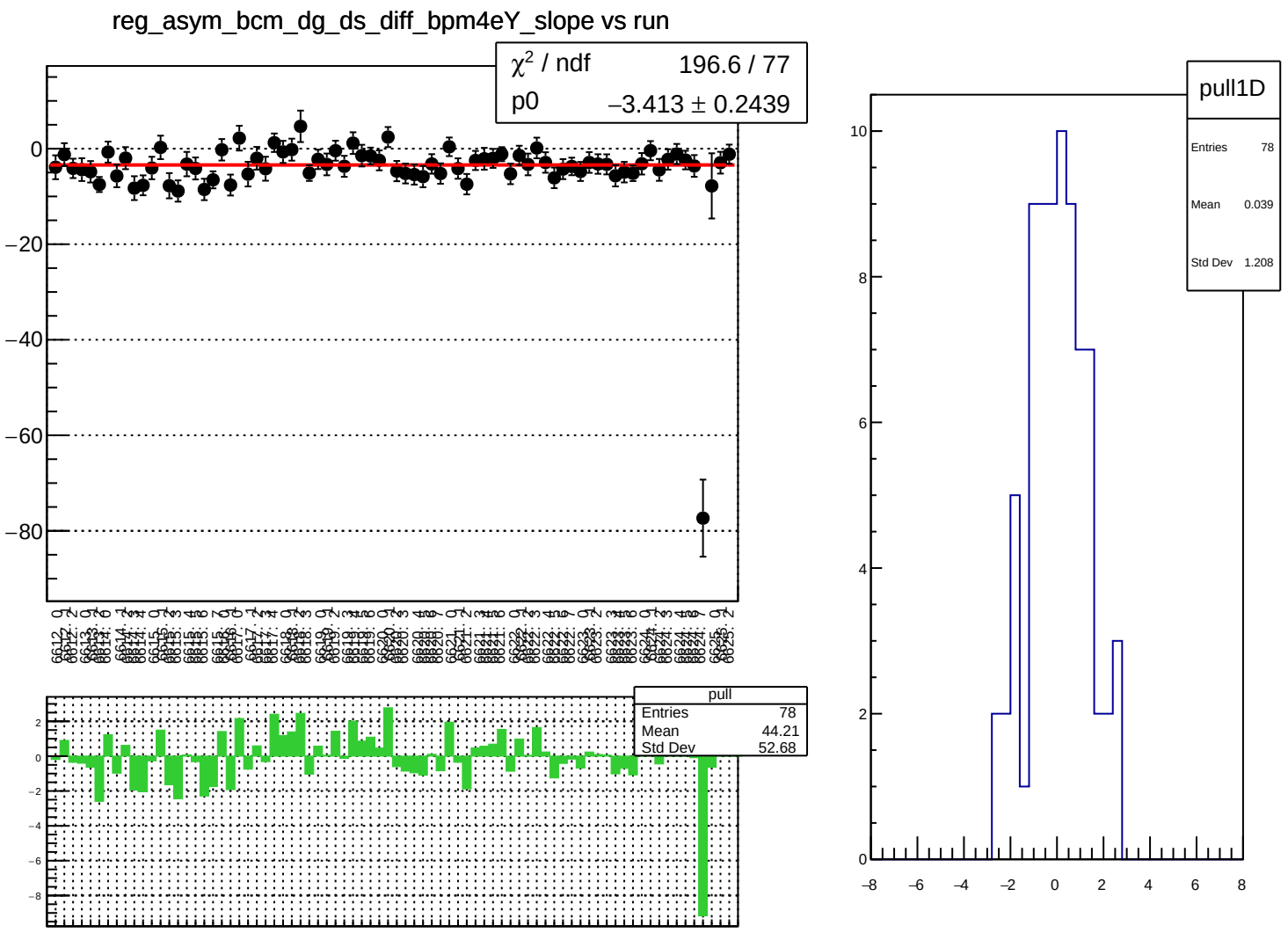

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 3338 / 77
p0 −18.15 ± 0.2944
pull
Entries 78
Mean 62.93
Std Dev 36.63

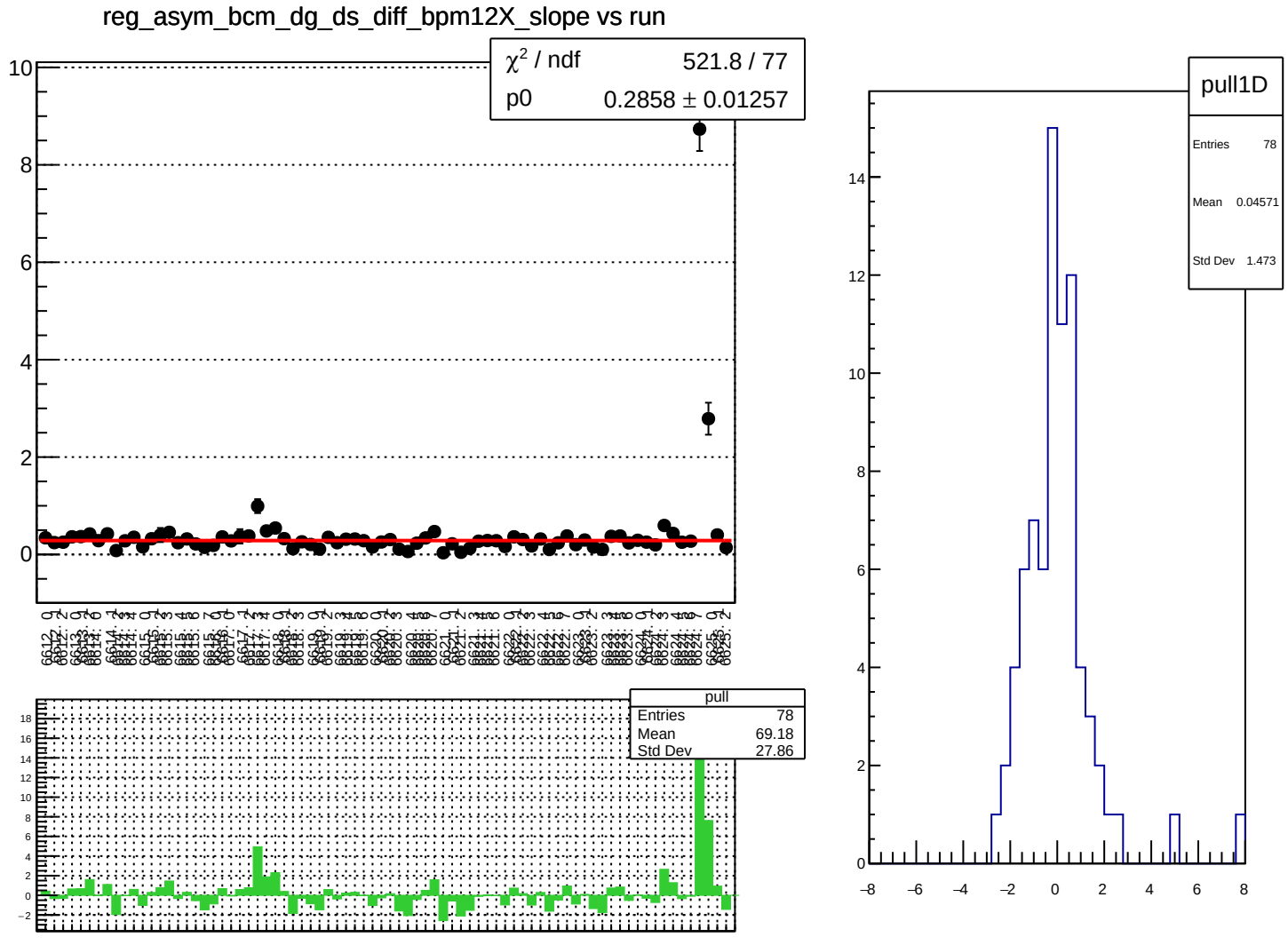

pull1D
Entries 78
Mean 0.1976
Std Dev 1.951

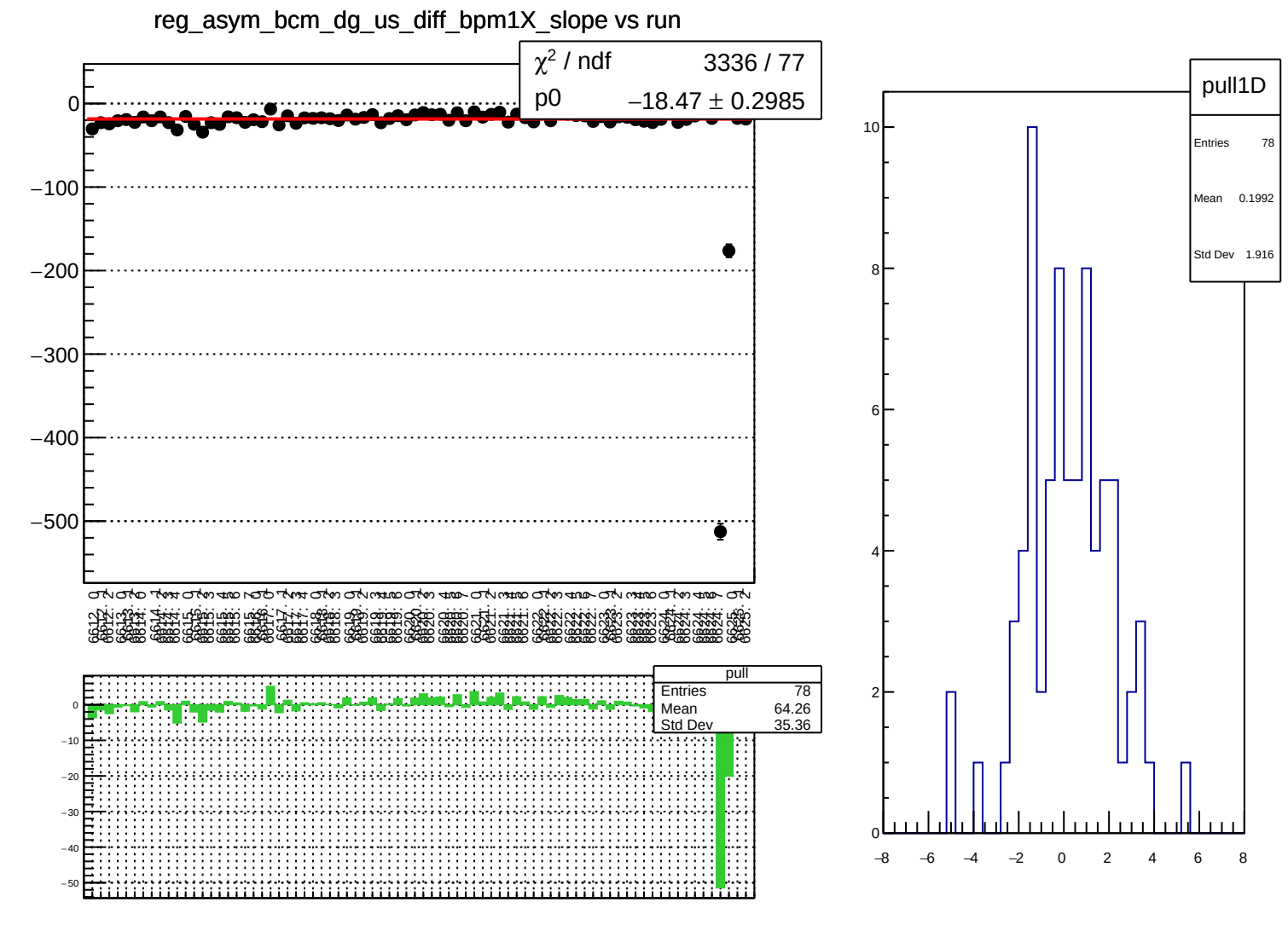

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 144.2 / 77
p0 2.205 ± 0.2041
pull
Entries 78
Mean −52.33
Std Dev 4.739

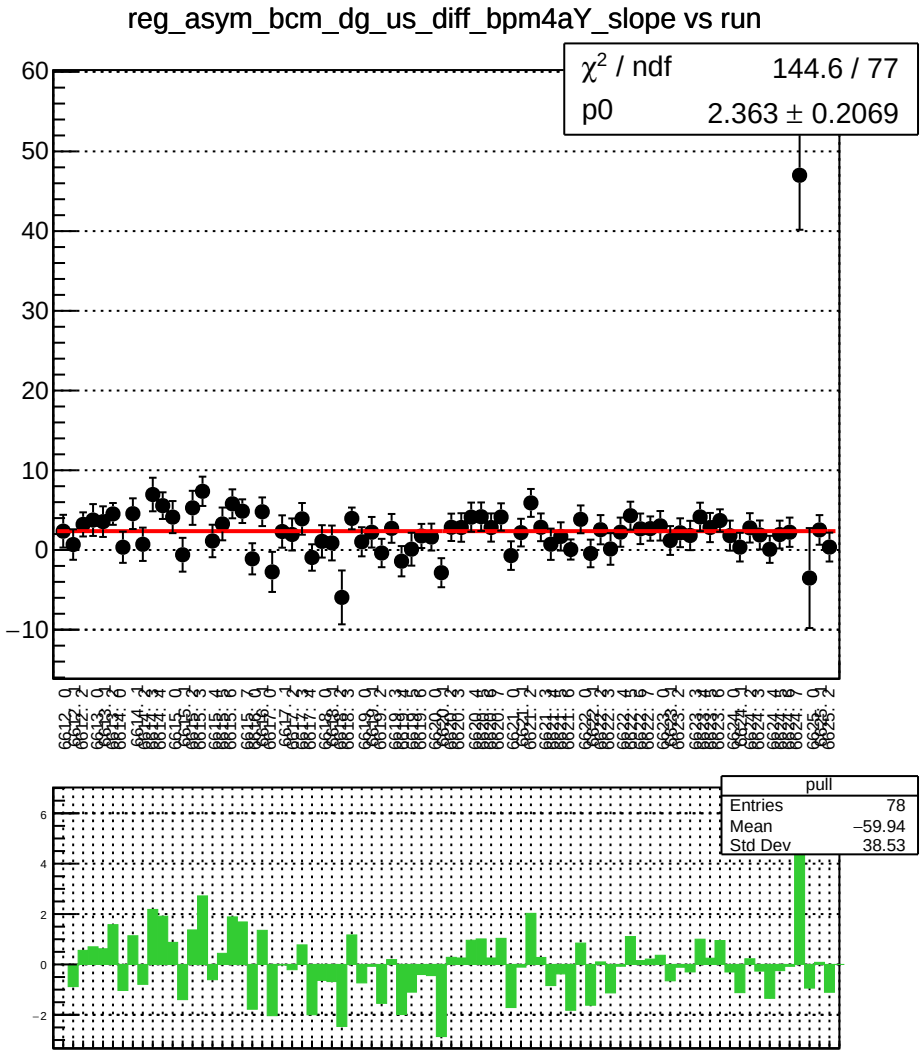

pull1D
Entries 78
Mean 0.01693
Std Dev 1.359

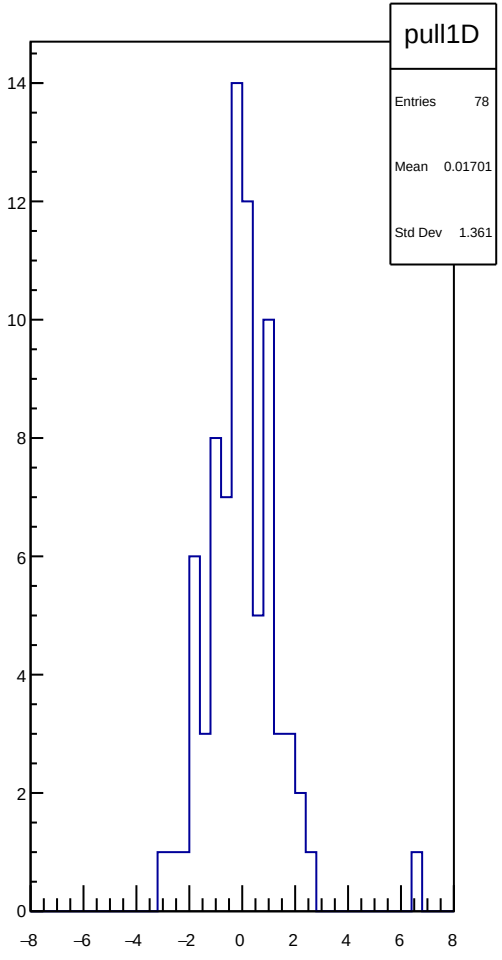

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 3210 / 77
p0 19.31 ± 0.3141
pull
Entries 78
Mean 64.22
Std Dev 35.61
pull1D
Entries 78
Mean −0.2038
Std Dev 1.909

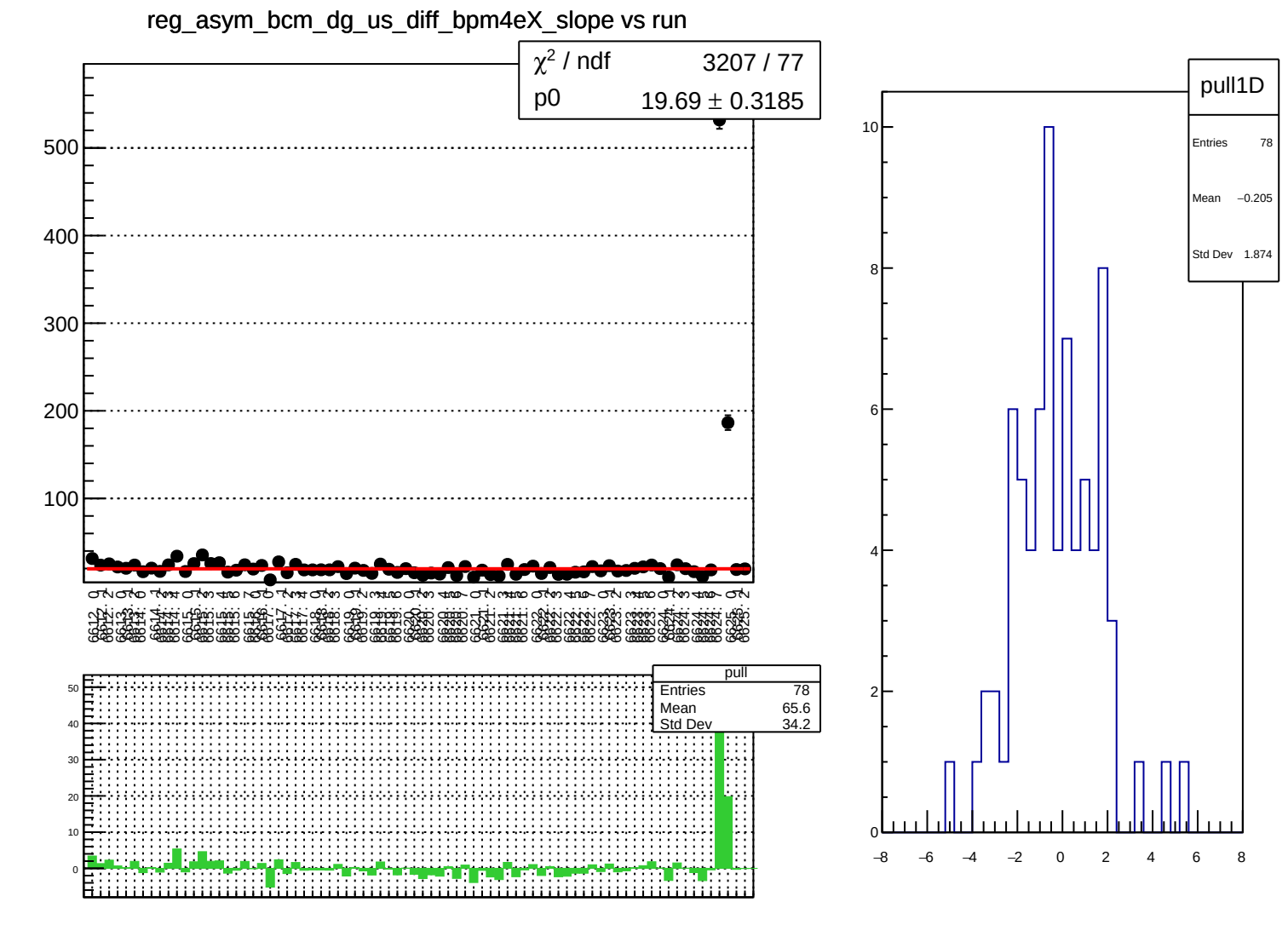

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 196.6 / 77
p0 −3.413 ± 0.2439
pull
Entries 78
Mean 44.21
Std Dev 52.68
pull1D
Entries 78
Mean 0.039
Std Dev 1.208

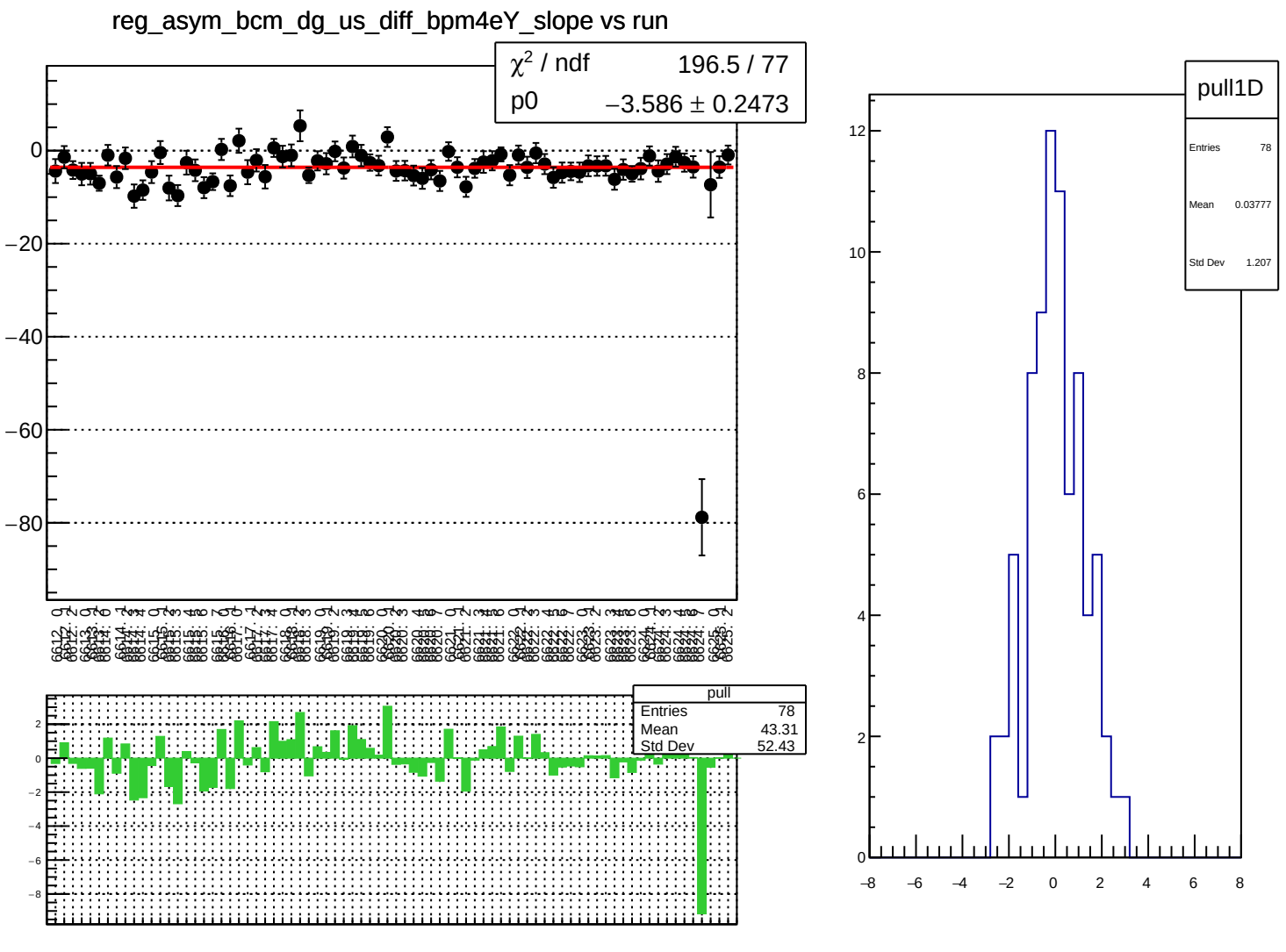

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 521.8 / 77
p0 0.2858 ± 0.01257
pull
Entries 78
Mean 69.18
Std Dev 27.86
pull1D
Entries 78
Mean 0.04571
Std Dev 1.473

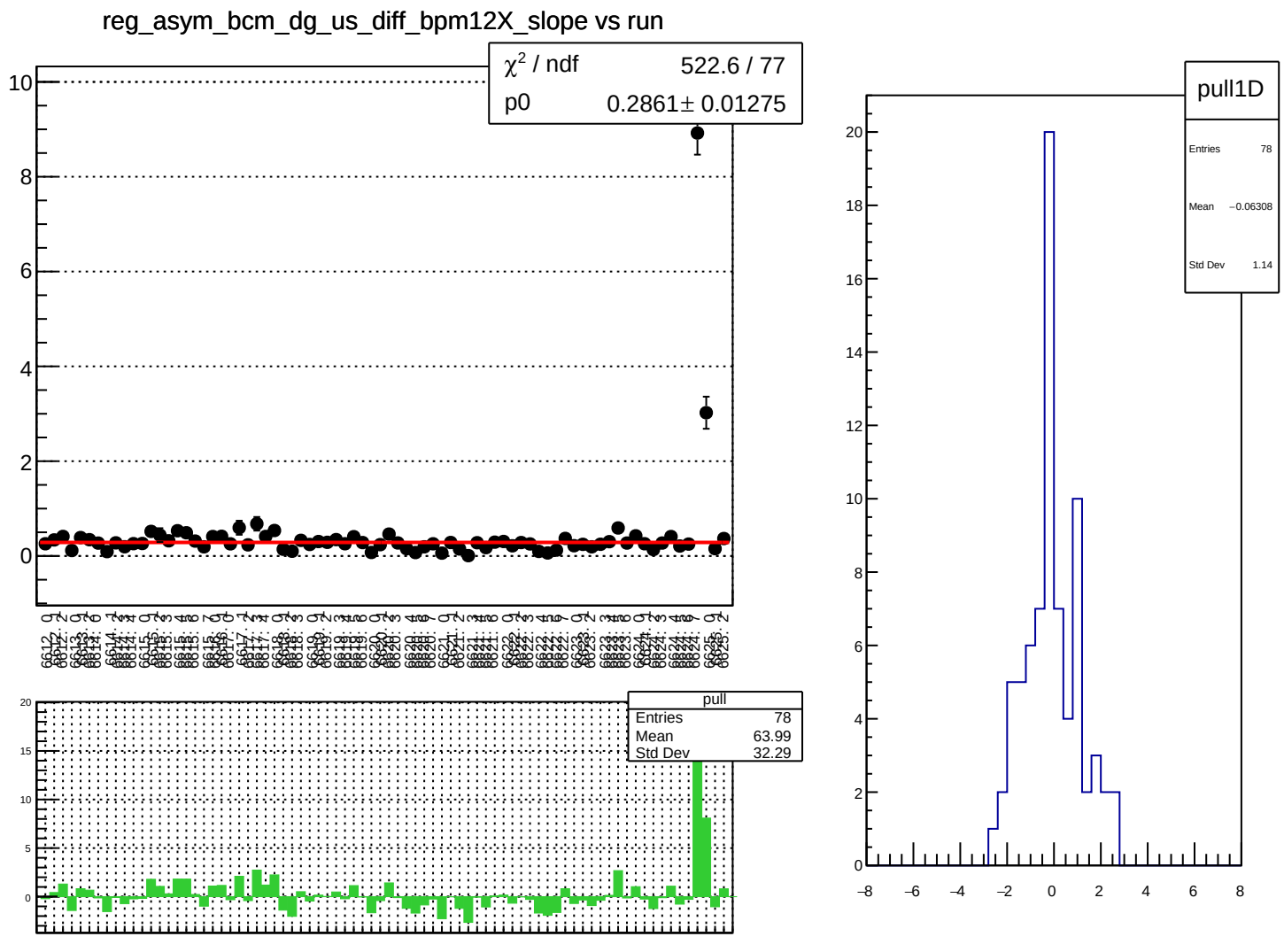

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 3336 / 77
p0 −18.47 ± 0.2985
pull
Entries 78
Mean 64.26
Std Dev 35.36
pull1D
Entries 78
Mean 0.1992
Std Dev 1.916

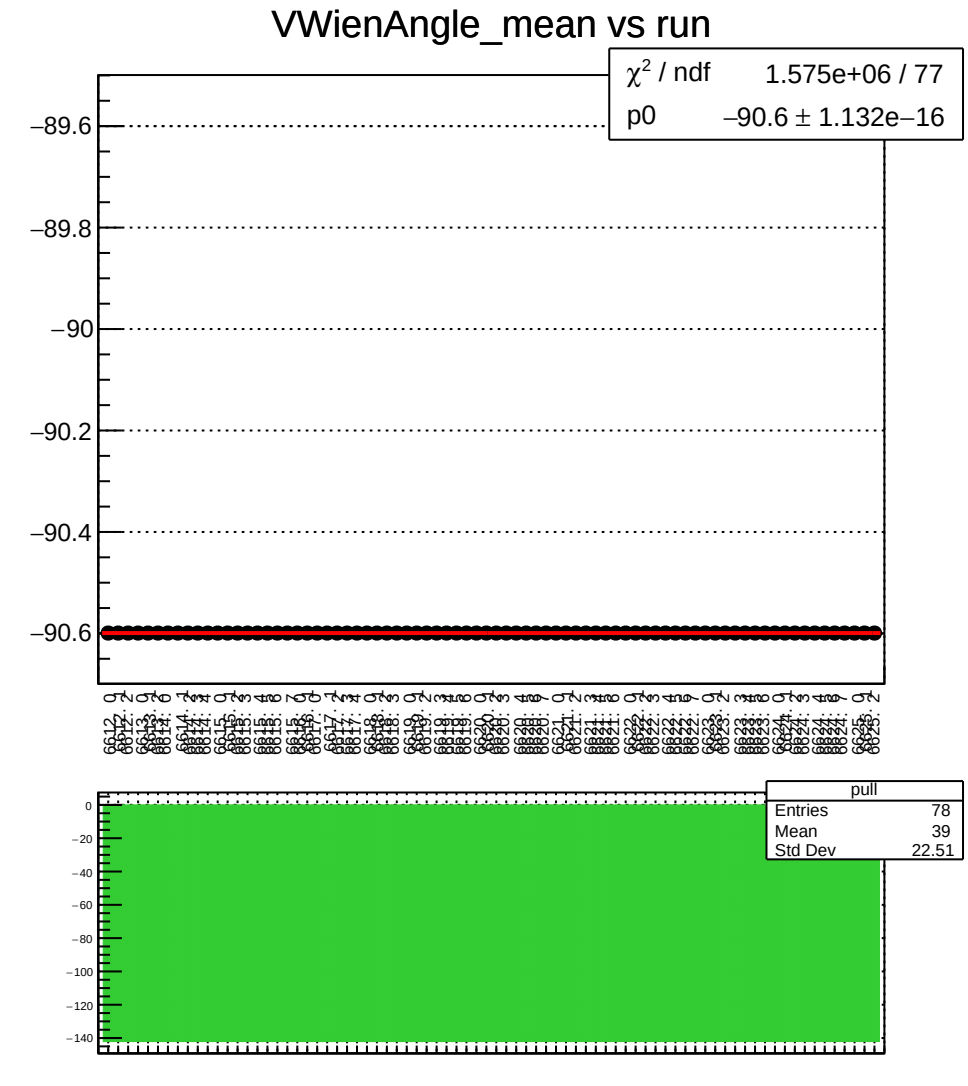

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 144.6 / 77
p0 2.363 ± 0.2069
pull
Entries 78
Mean −59.94
Std Dev 38.53

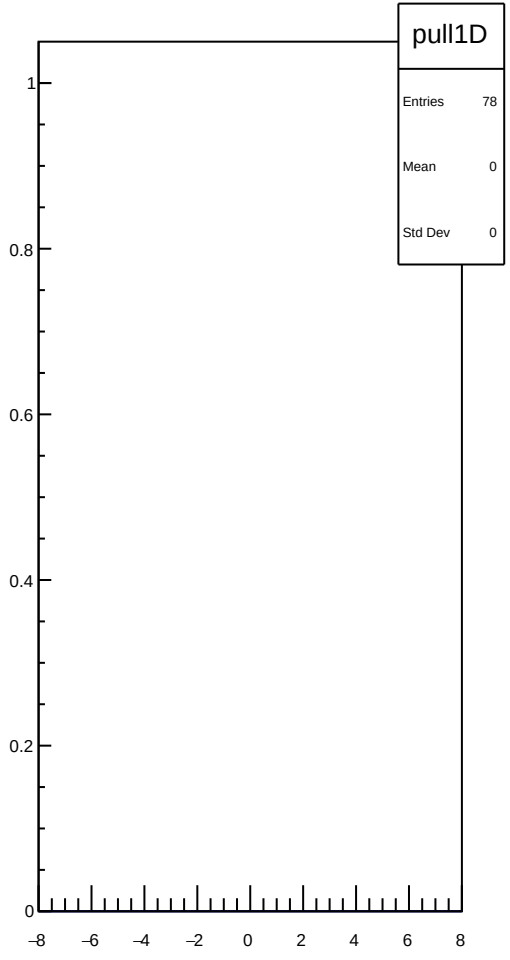

pull1D
Entries 78
Mean 0.01701
Std Dev 1.361

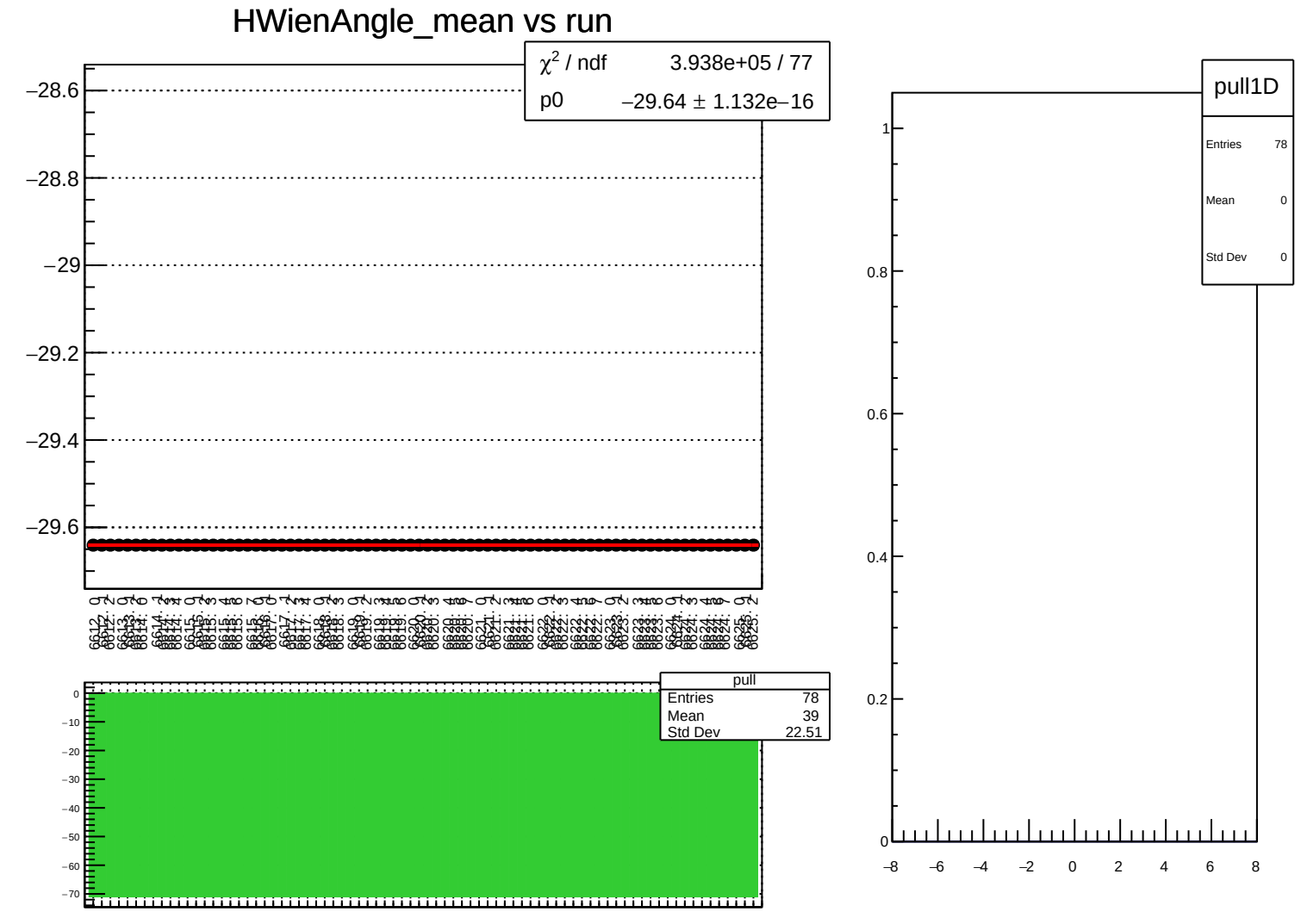

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 3207 / 77
p0 19.69 ± 0.3185
500
400
300
200
100
pull
Entries 78
Mean 65.6
Std Dev 34.2
50
40
30
20
10
0
pull1D
Entries 78
Mean −0.205
Std Dev 1.874
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

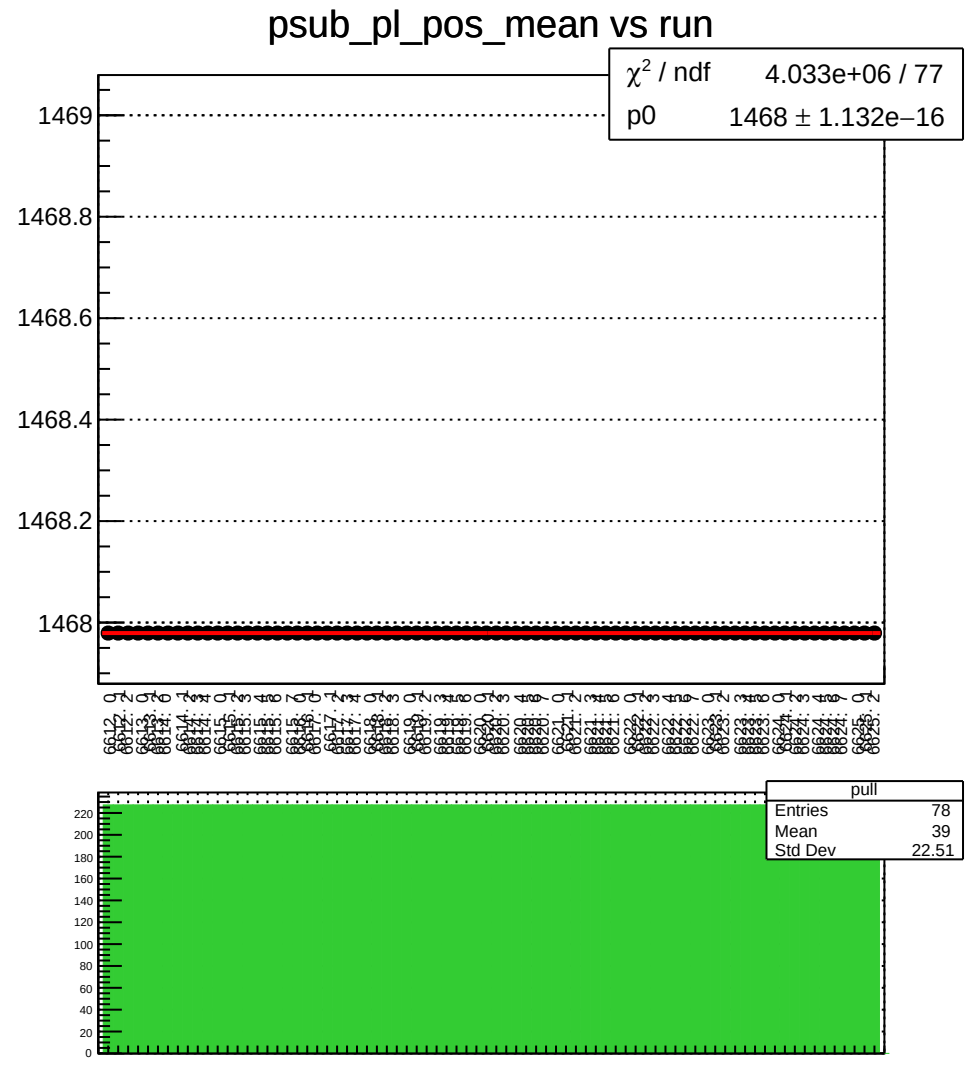

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 196.5 / 77
p0 −3.586 ± 0.2473
0
−20
−40
−60
−80
pull
Entries 78
Mean 43.31
Std Dev 52.43
2
0
−2
−4
−6
−8
pull1D
Entries 78
Mean 0.03777
Std Dev 1.207
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

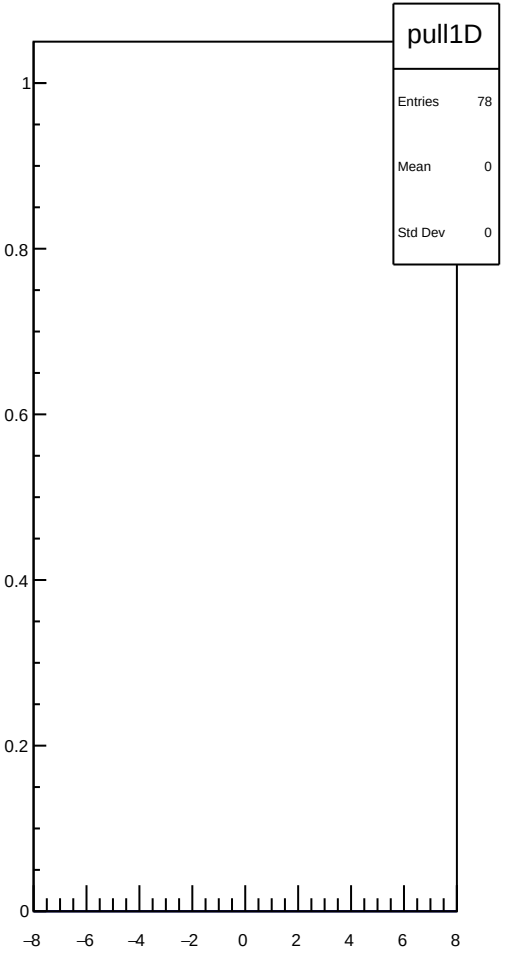

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 522.6 / 77
p0 0.2861± 0.01275
pull
Entries 78
Mean 63.99
Std Dev 32.29
pull1D
Entries 78
Mean −0.06308
Std Dev 1.14

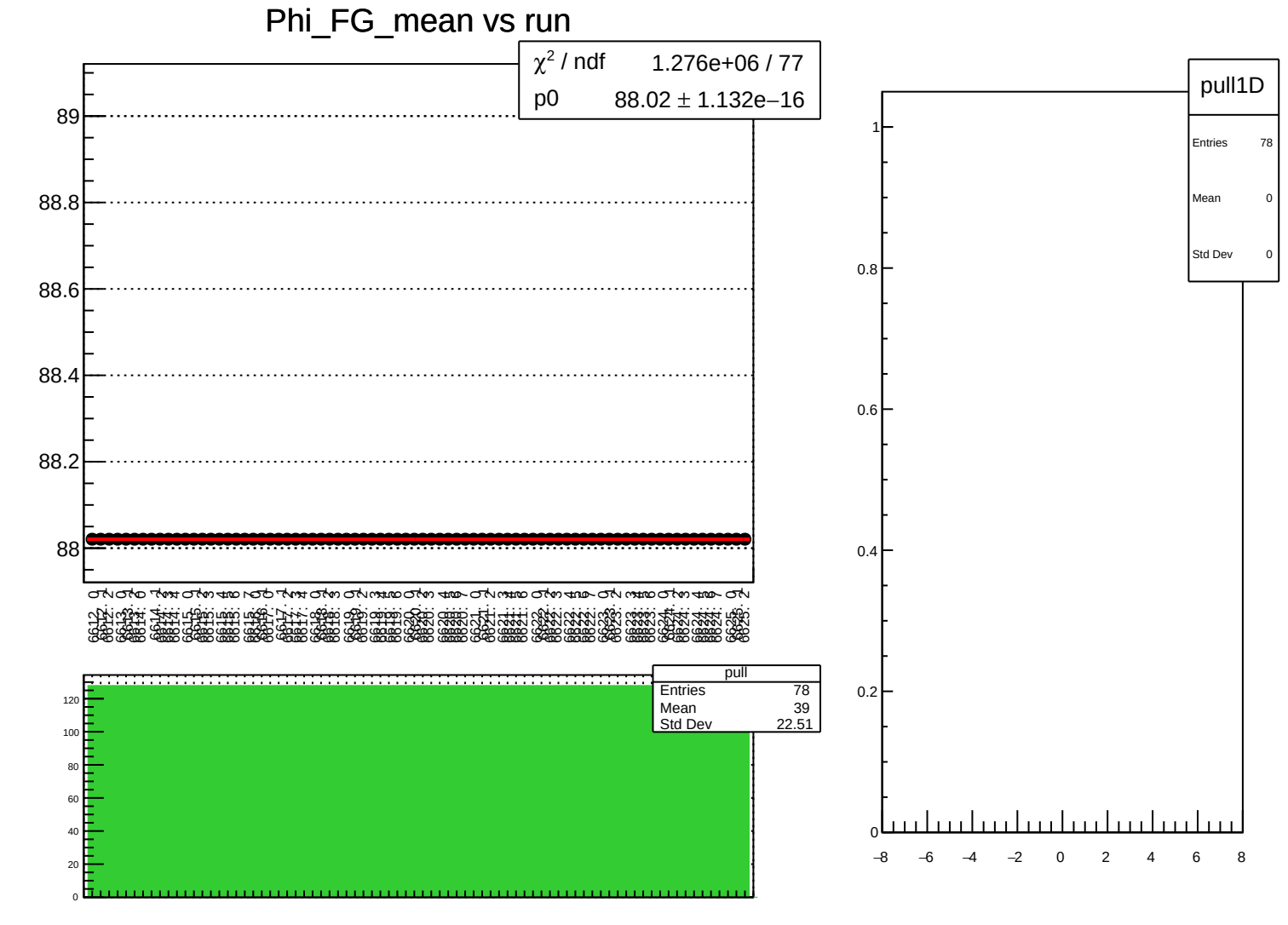

VWienAngle_mean vs run
χ² / ndf 1.575e+06 / 77
p0 −90.6 ± 1.132e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 78
Mean 39
Std Dev 22.51
0
−20
−40
−60
−80
−100
−120
−140

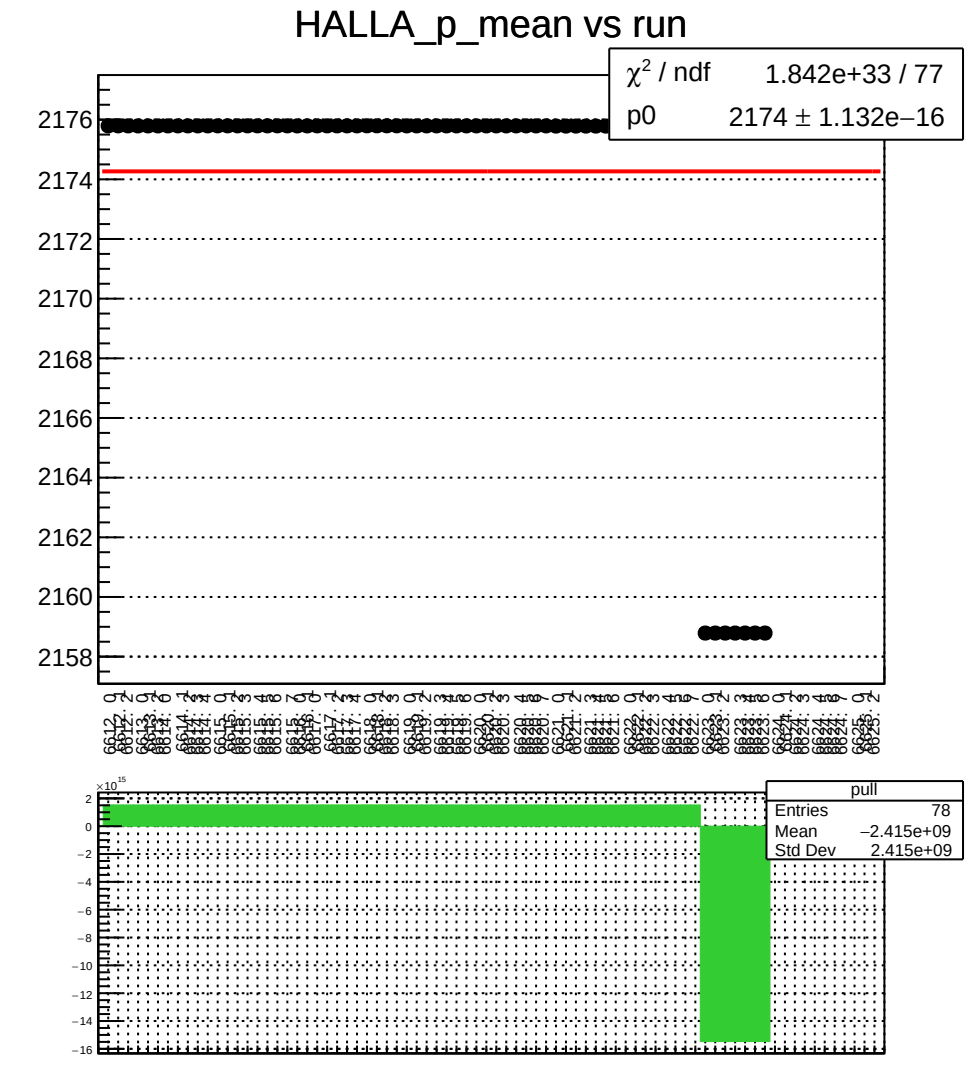

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

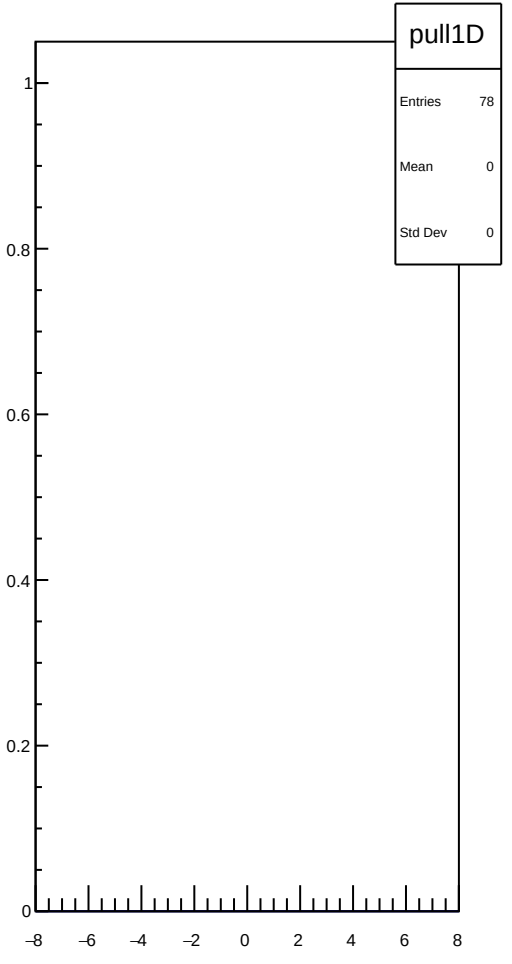

HWienAngle_mean vs run
χ² / ndf 3.938e+05 / 77
p0 −29.64 ± 1.132e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 78
Mean 39
Std Dev 22.51
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

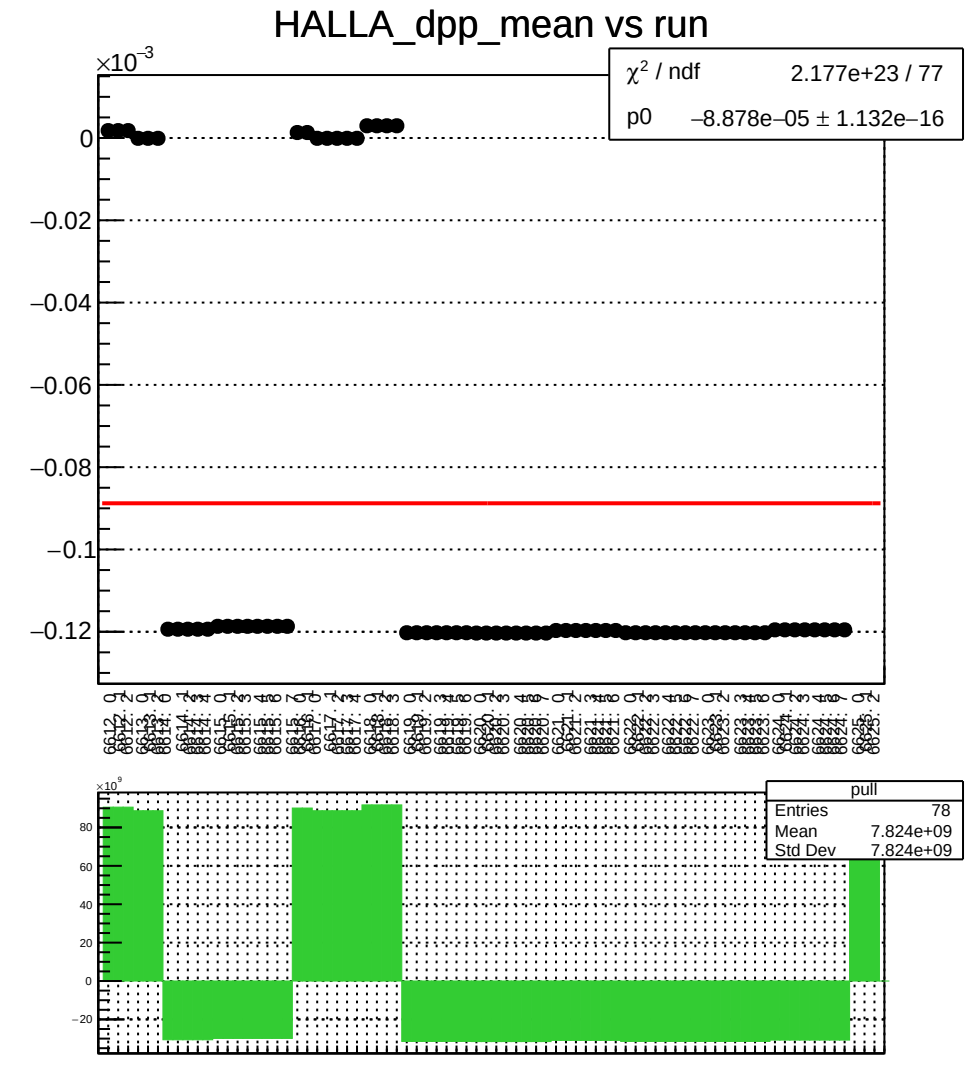

psub_pl_pos_mean vs run
χ² / ndf 4.033e+06 / 77
p0 1468 ± 1.132e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 78
Mean 39
Std Dev 22.51
220
200
180
160
140
120
100
80
60
40
20
0

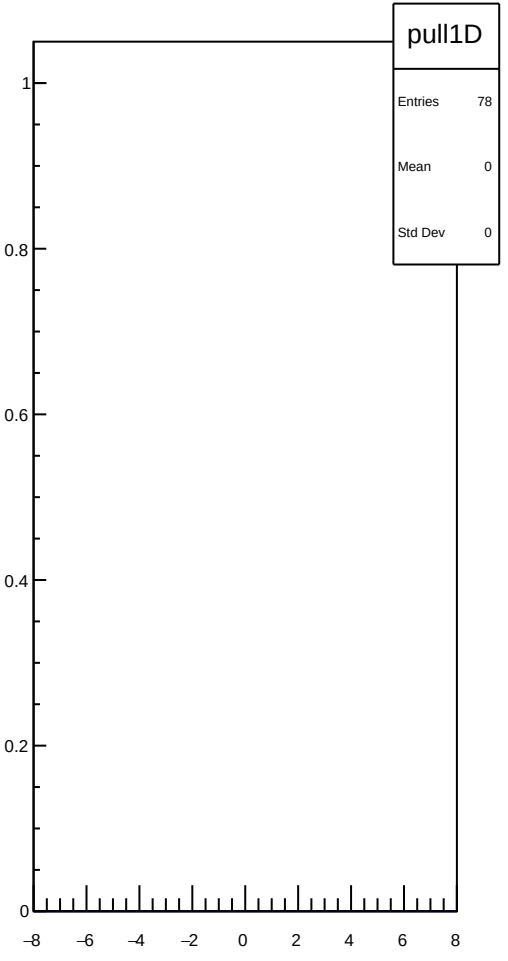

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

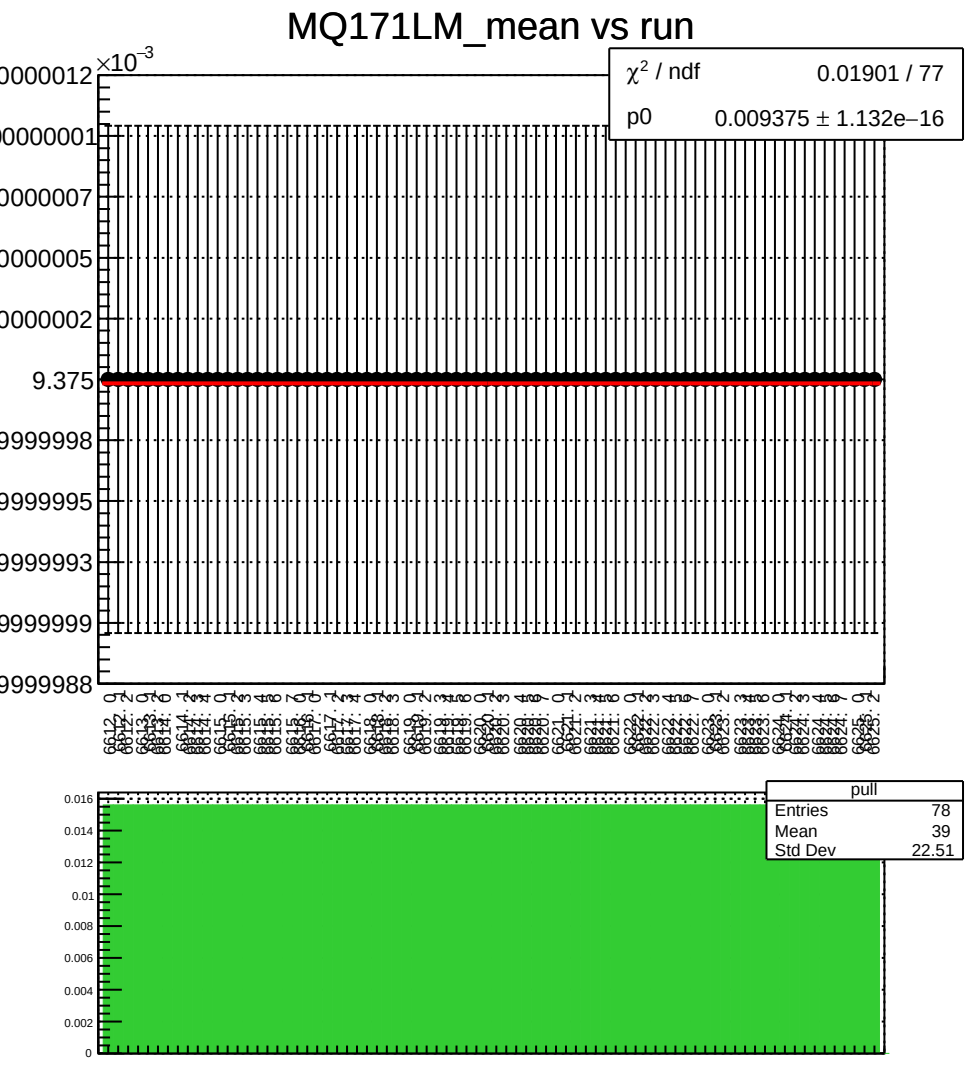

Phi_FG_mean vs run
χ² / ndf 1.276e+06 / 77
p0 88.02 ± 1.132e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 78
Mean 39
Std Dev 22.51
120
100
80
60
40
20
0
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

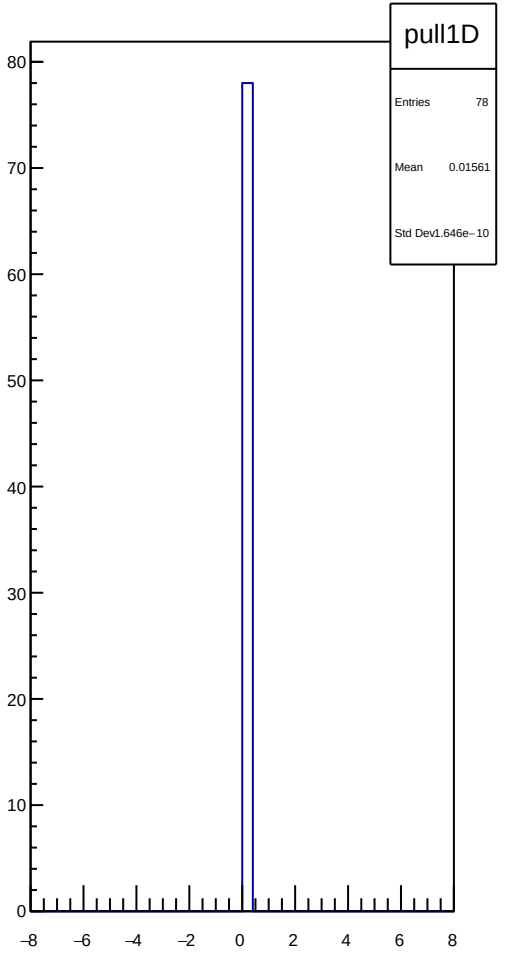

HALLA_p_mean vs run
χ² / ndf 1.842e+33 / 77
p0 2174 ± 1.132e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 78
Mean −2.415e+09
Std Dev 2.415e+09
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

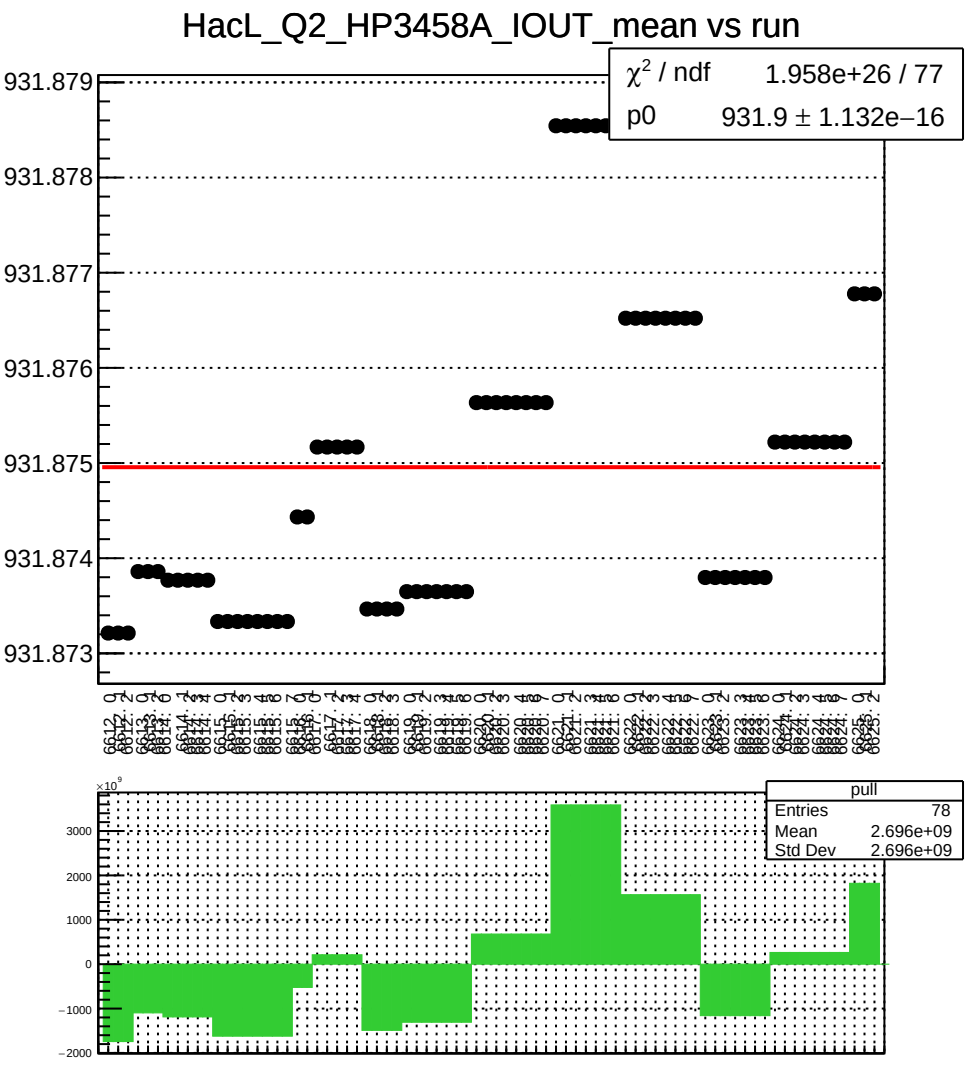

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

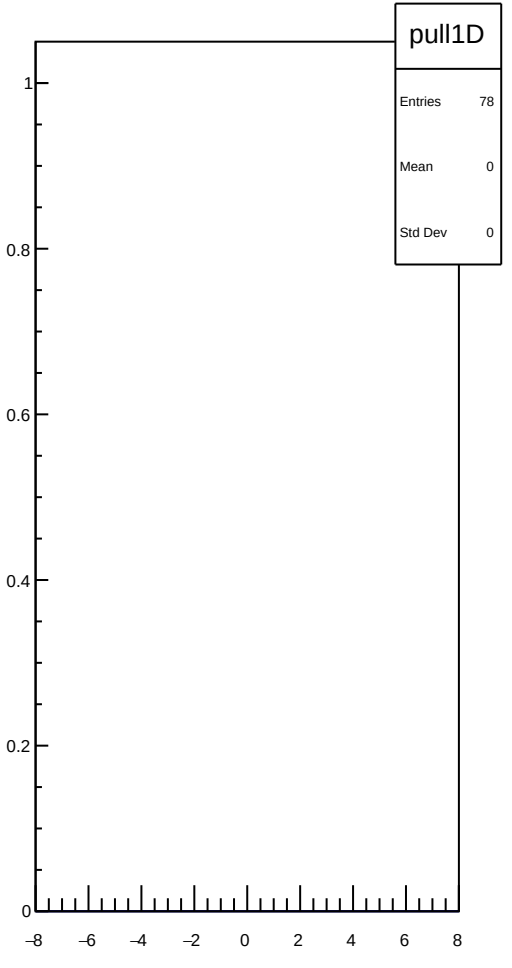

HALLA_dpp_mean vs run
χ² / ndf 2.177e+23 / 77
p0 −8.878e−05 ± 1.132e−16
pull
Entries 78
Mean 7.824e+09
Std Dev 7.824e+09

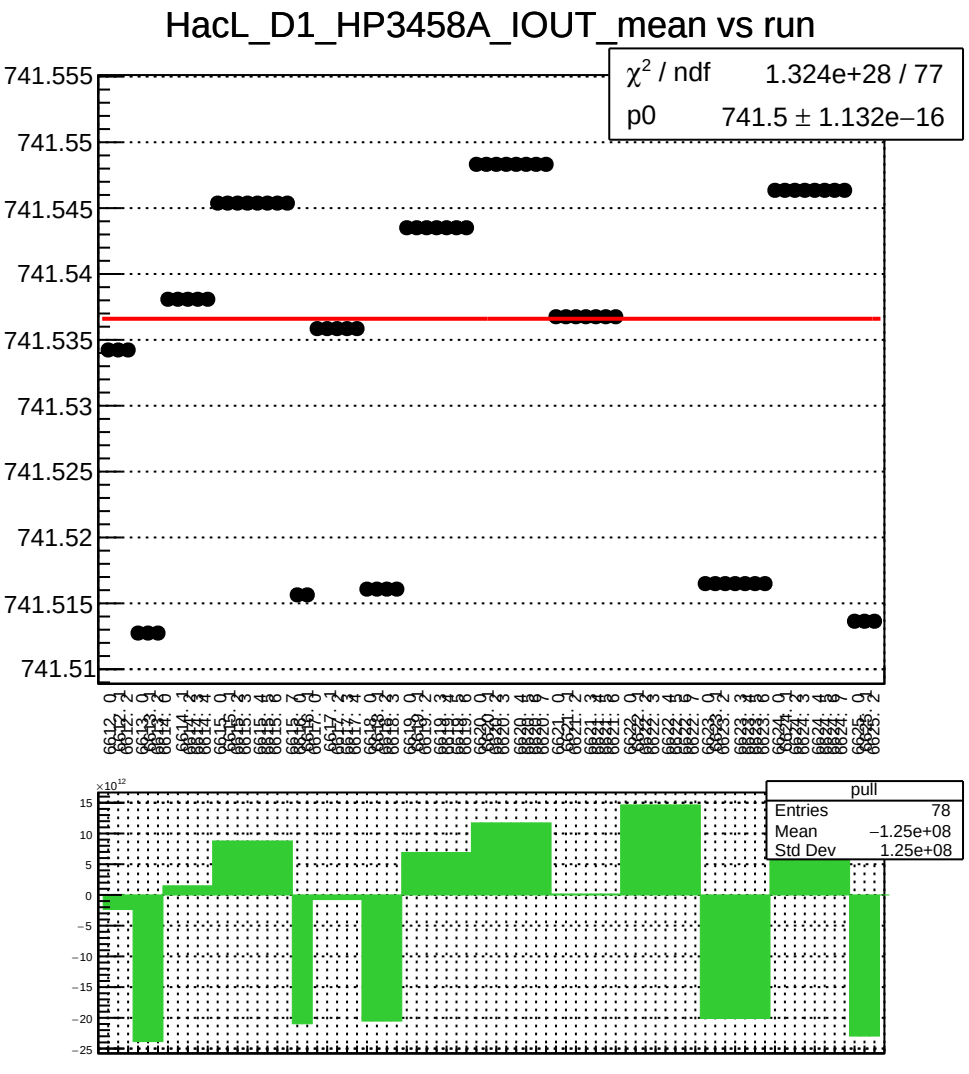

pull1D
Entries 78
Mean 0
Std Dev 0

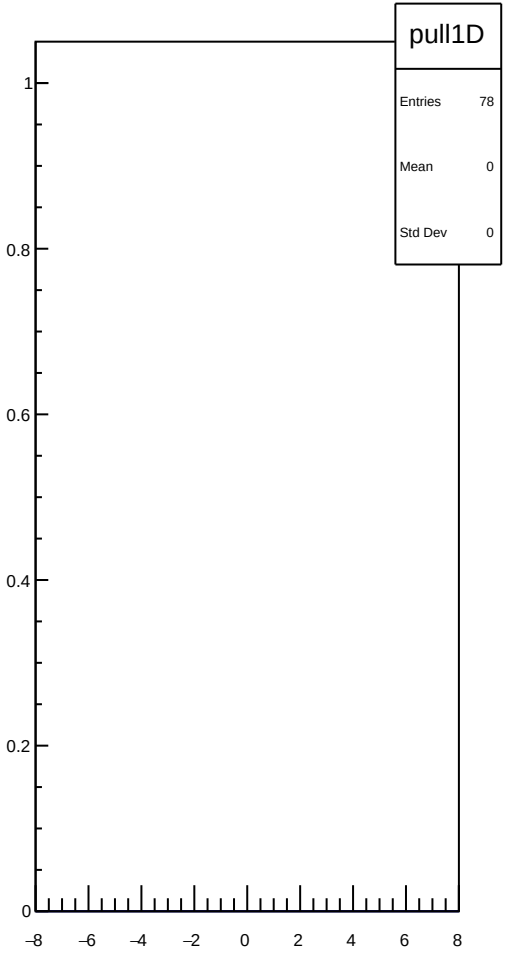

MQ171LM_mean vs run
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
×10⁻³
9.375
pull
Entries 78
Mean 39
Std Dev 22.51

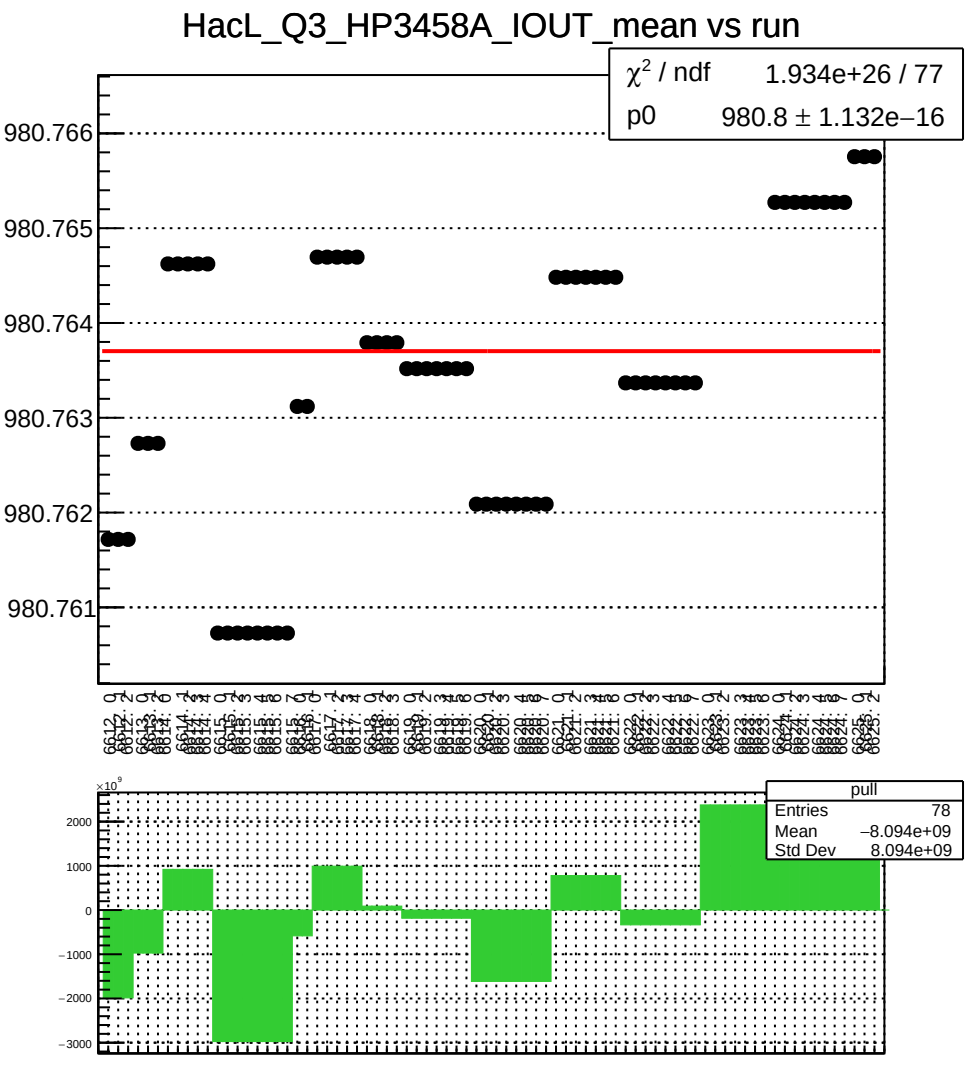

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

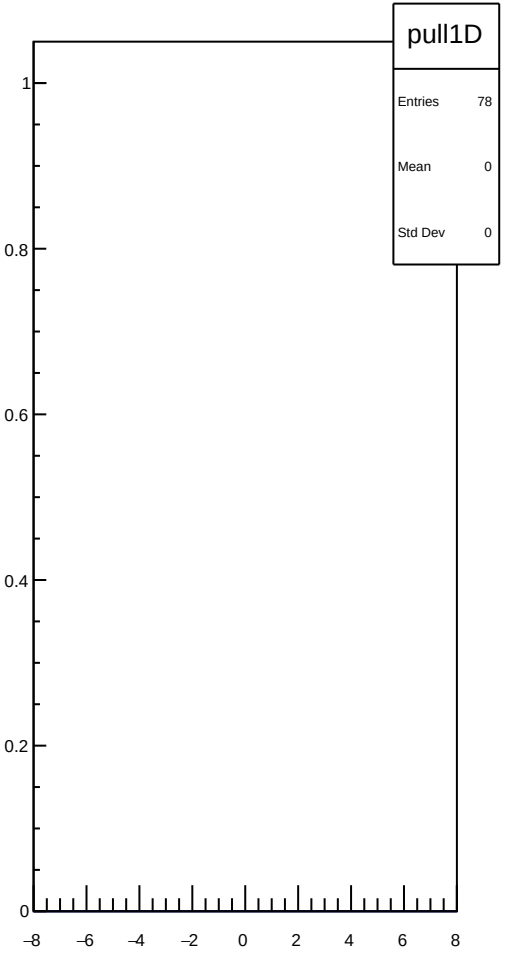

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.958e+26 / 77
p0 931.9 ± 1.132e−16
931.879
931.878
931.877
931.876
931.875
931.874
931.873
pull
Entries 78
Mean 2.696e+09
Std Dev 2.696e+09
×10⁹
3000
2000
1000
0
−1000
−2000

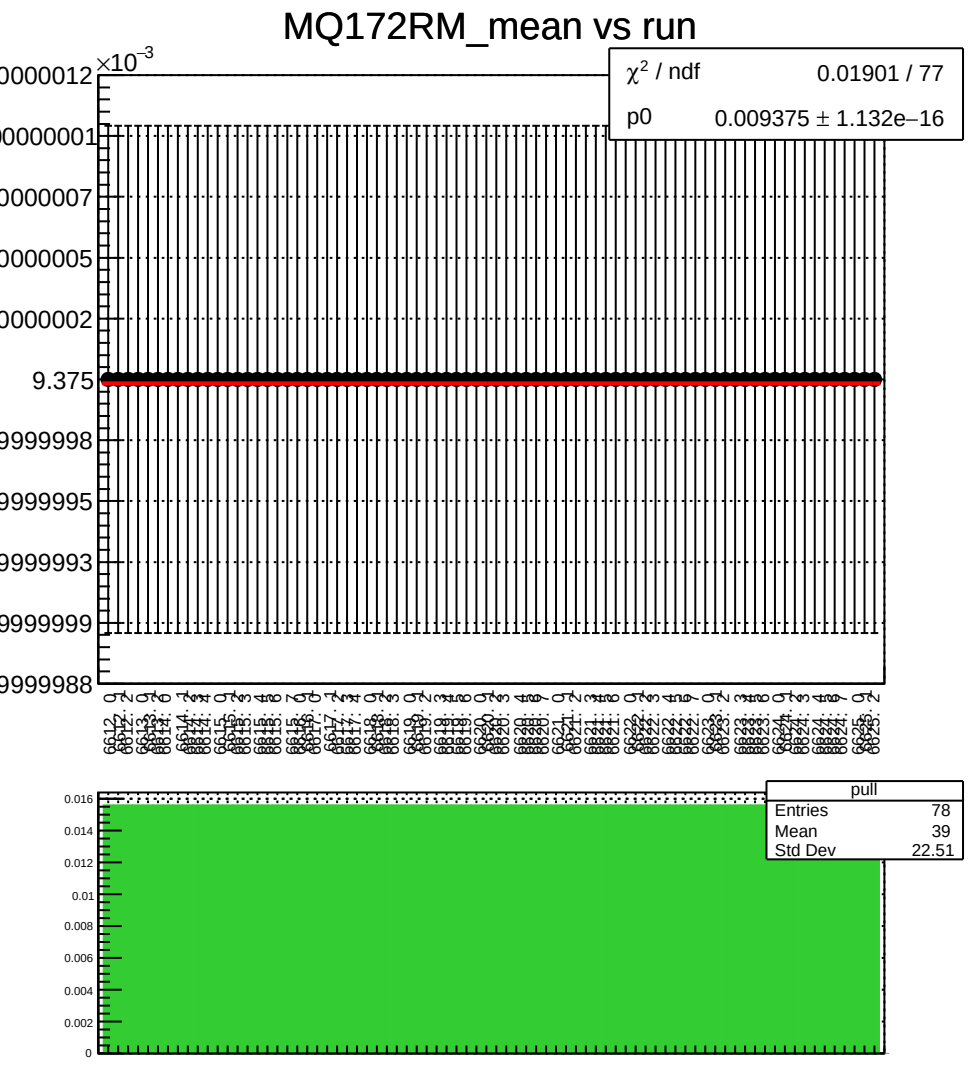

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

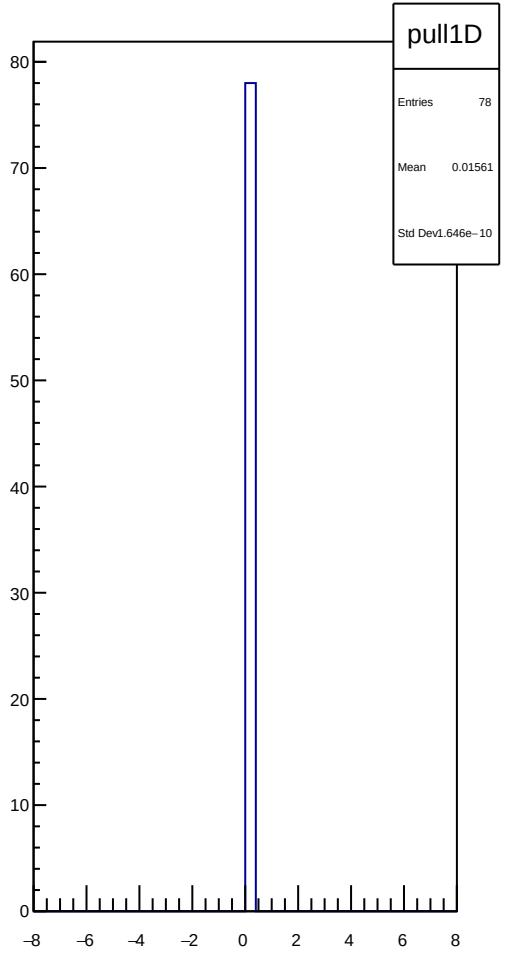

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.324e+28 / 77
p0 741.5 ± 1.132e−16
741.555
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
pull
Entries 78
Mean −1.25e+08
Std Dev 1.25e+08
×10¹²
15
10
5
0
−5
−10
−15
−20
−25

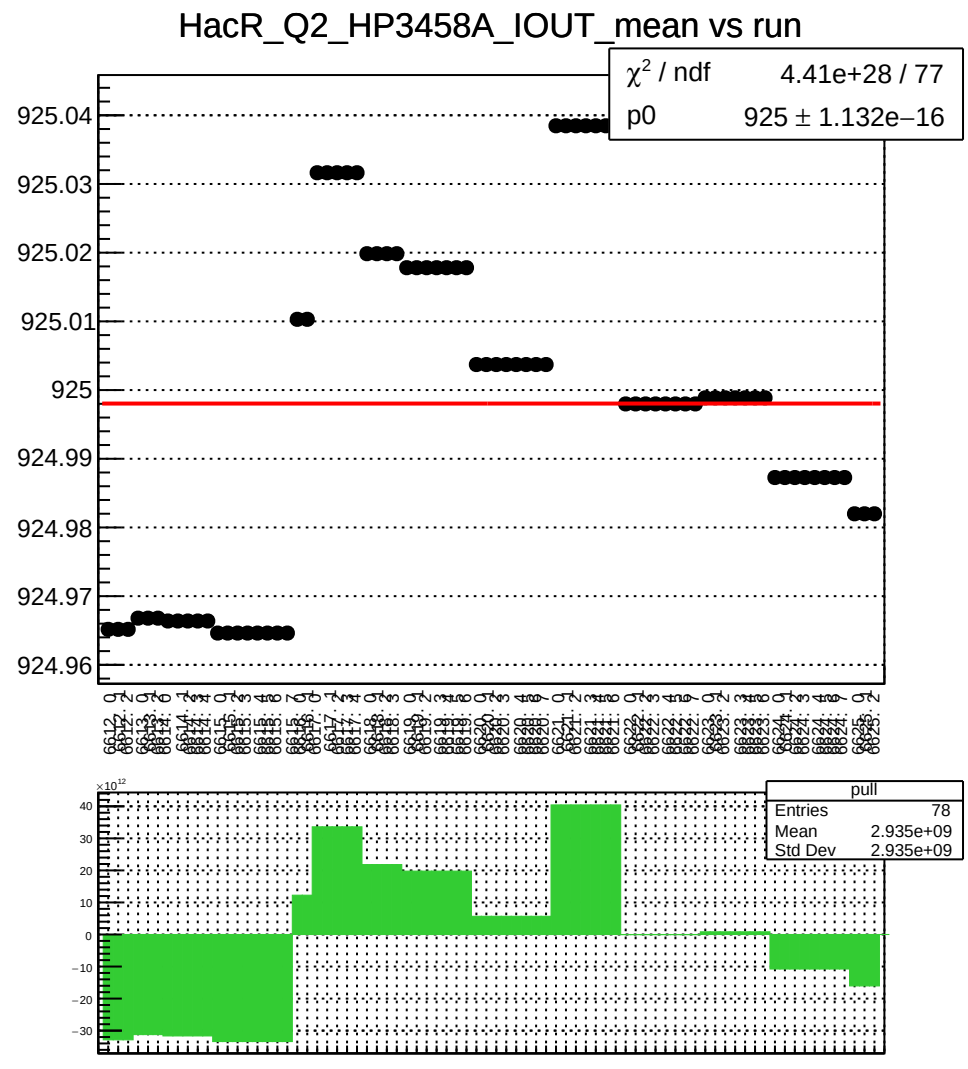

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

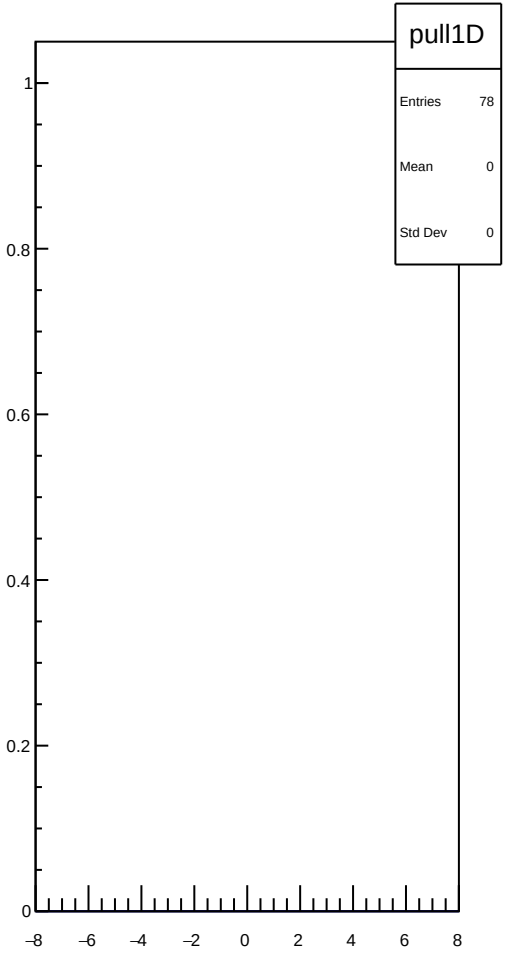

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.934e+26 / 77
p0 980.8 ± 1.132e−16
980.766
980.765
980.764
980.763
980.762
980.761
pull
Entries 78
Mean −8.094e+09
Std Dev 8.094e+09
×10⁹
2000
1000
0
−1000
−2000
−3000

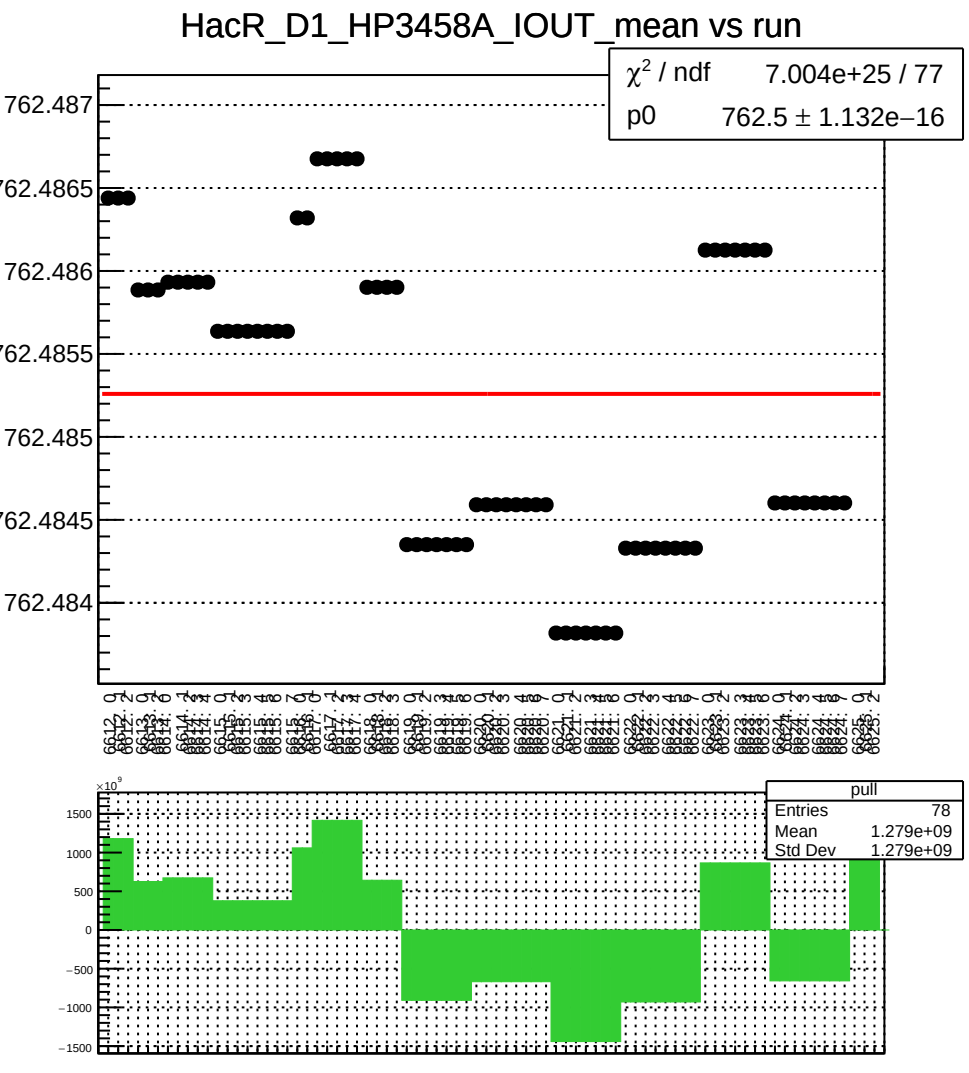

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

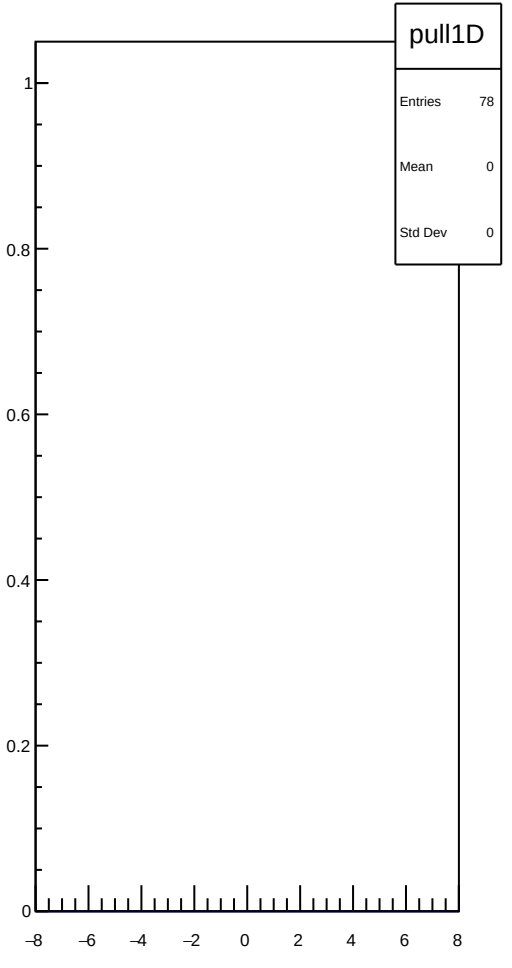

MQ172RM_mean vs run
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
×10⁻³
pull
Entries 78
Mean 39
Std Dev 22.51

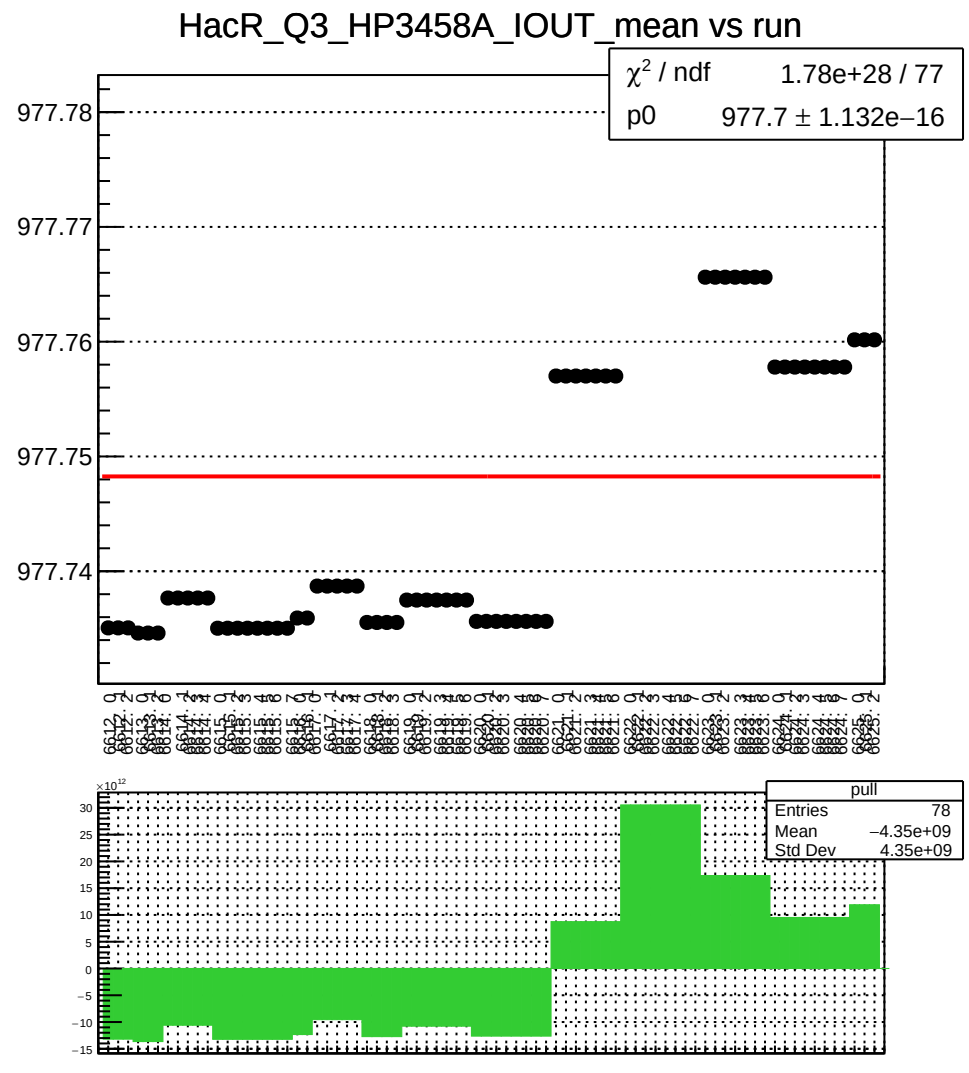

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

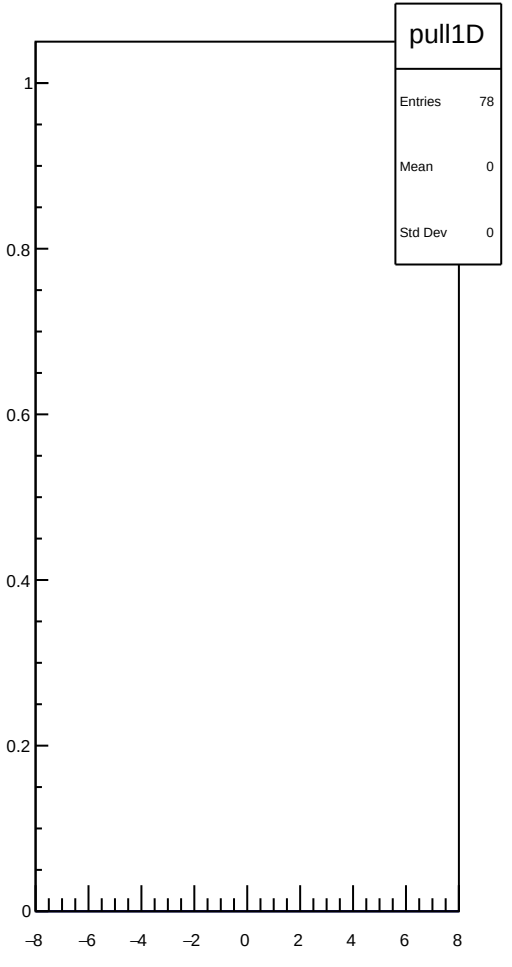

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.41e+28 / 77
p0 925 ± 1.132e−16
925.04
925.03
925.02
925.01
925
924.99
924.98
924.97
924.96
pull
Entries 78
Mean 2.935e+09
Std Dev 2.935e+09
×10¹²
40
30
20
10
0
−10
−20
−30

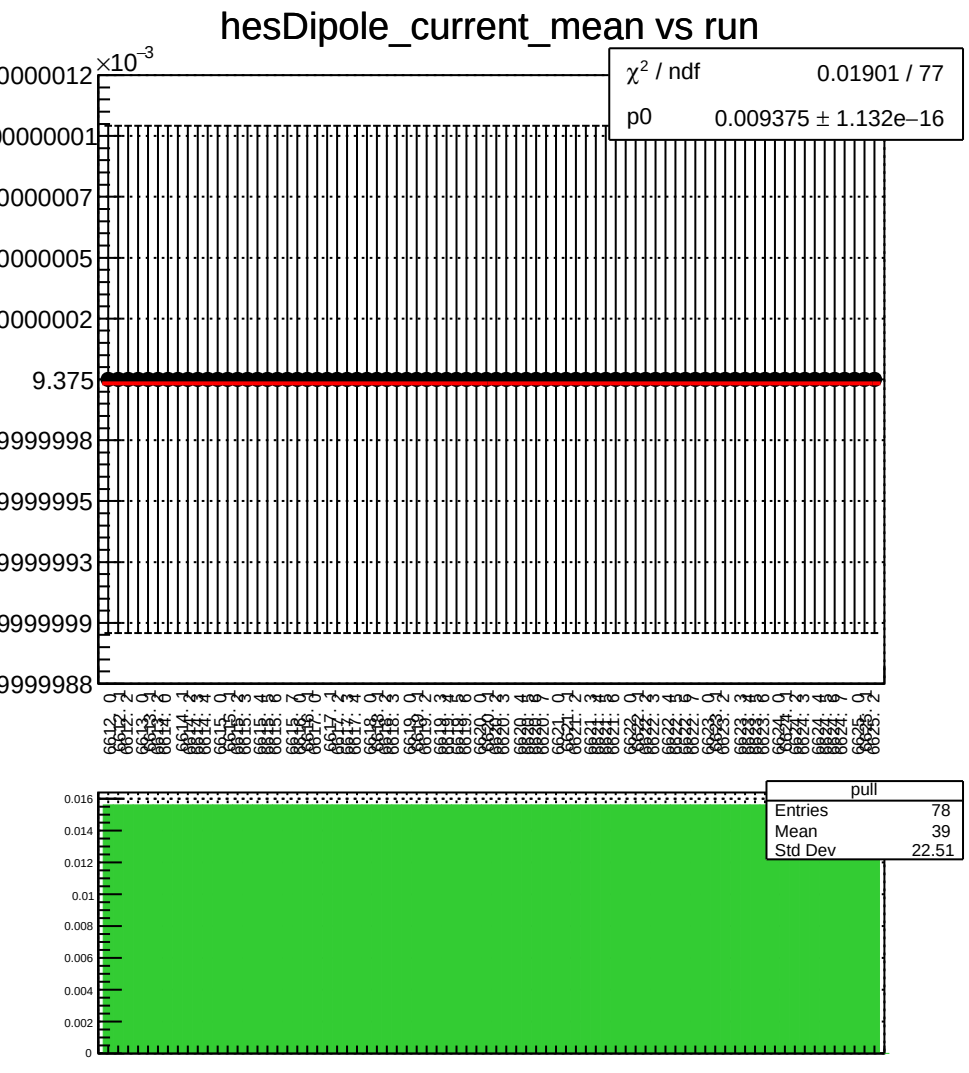

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

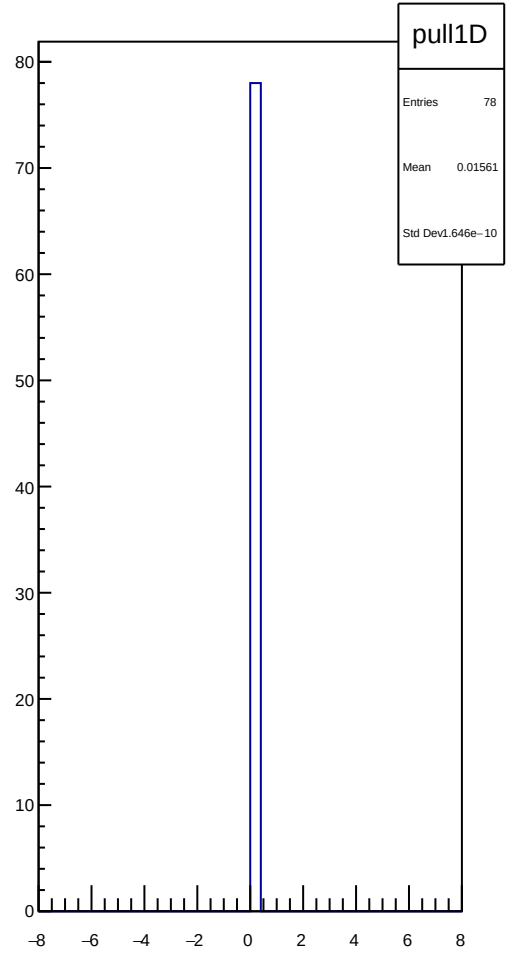

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.004e+25 / 77
p0 762.5 ± 1.132e−16
762.487
762.4865
762.486
762.4855
762.485
762.4845
762.484
×10⁹
1500
1000
500
0
−500
−1000
−1500
pull
Entries 78
Mean 1.279e+09
Std Dev 1.279e+09

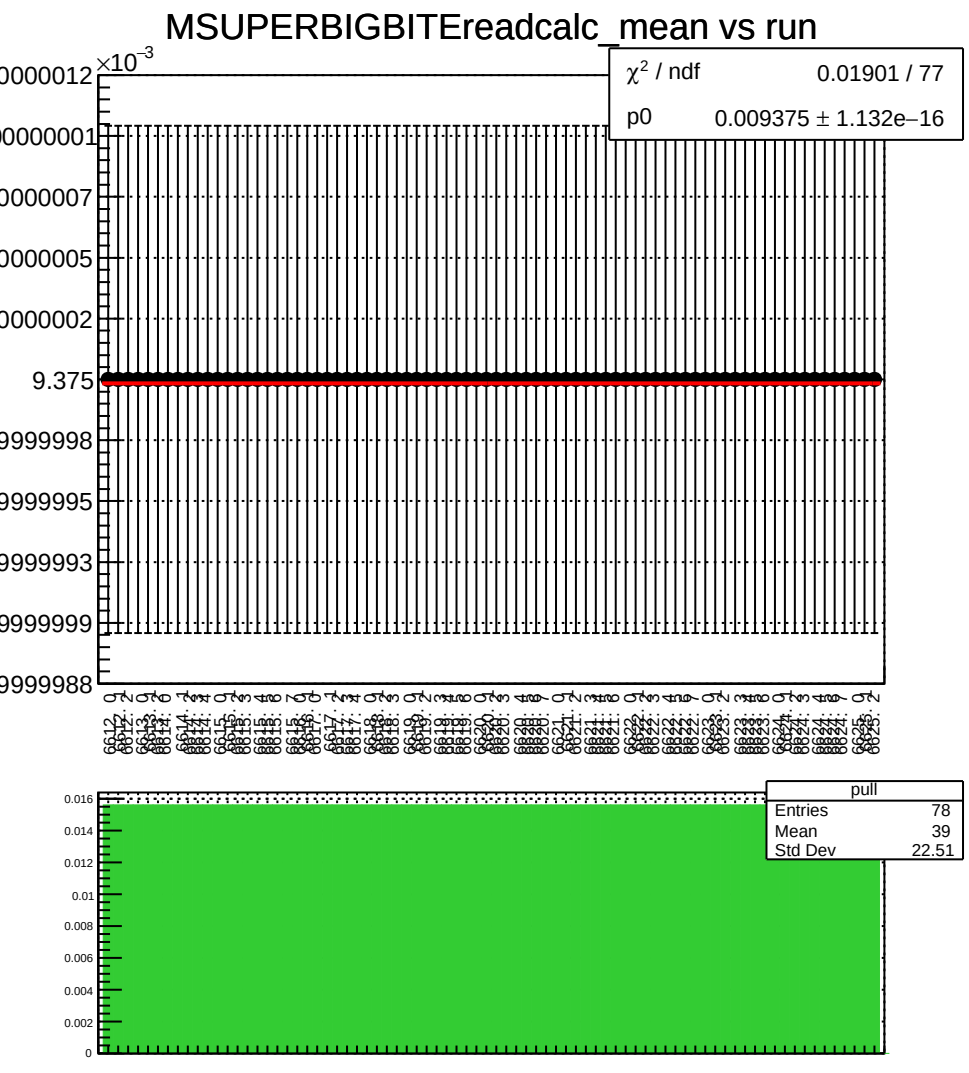

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

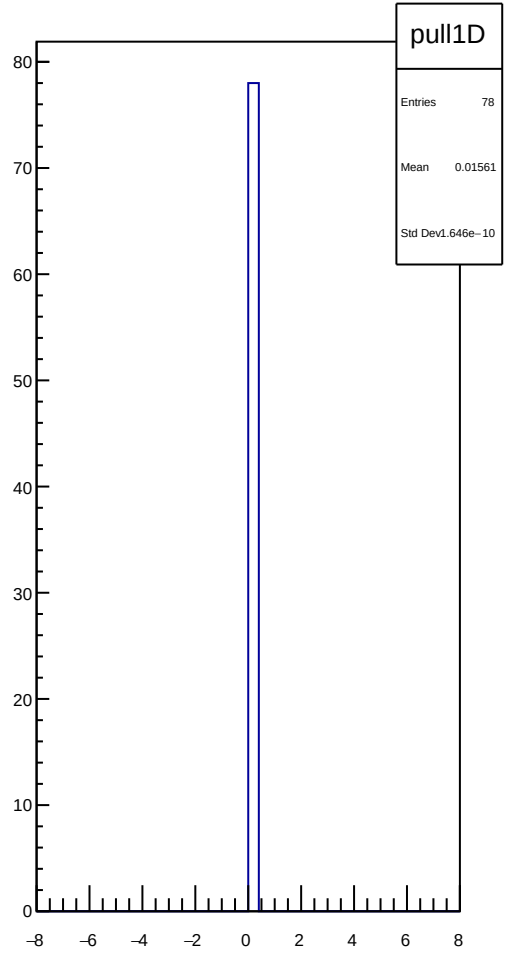

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.78e+28 / 77
p0 977.7 ± 1.132e−16
977.78
977.77
977.76
977.75
977.74
pull
Entries 78
Mean −4.35e+09
Std Dev 4.35e+09
×10¹²
30
25
20
15
10
5
0
−5
−10
−15

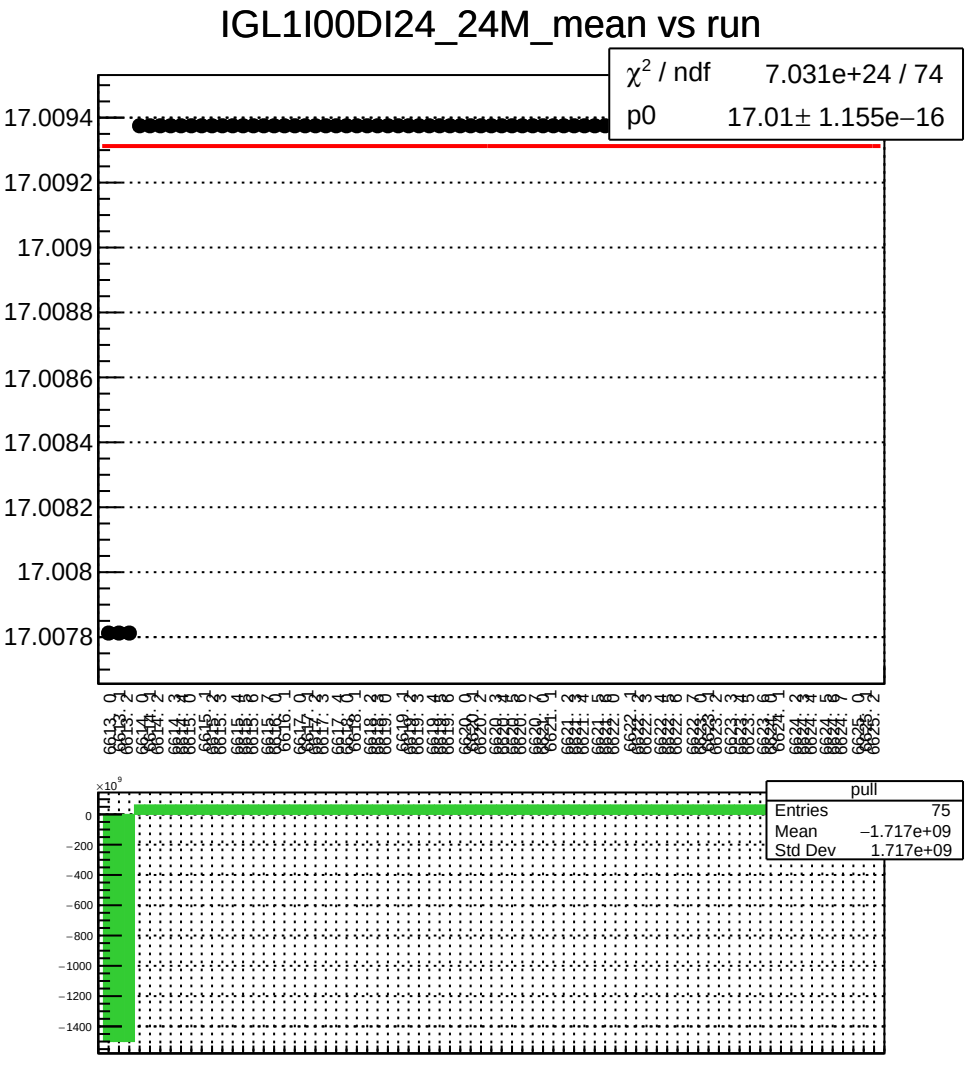

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

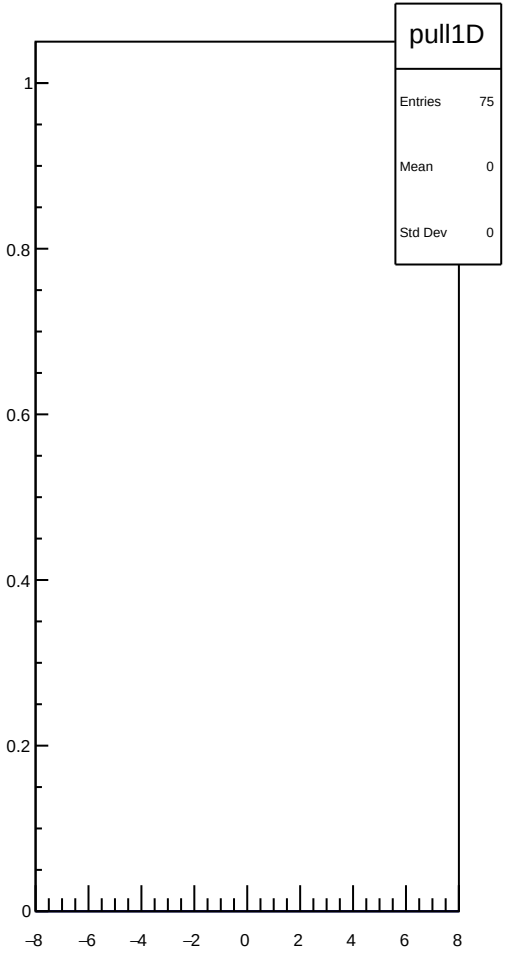

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
9.375
pull
Entries 78
Mean 39
Std Dev 22.51

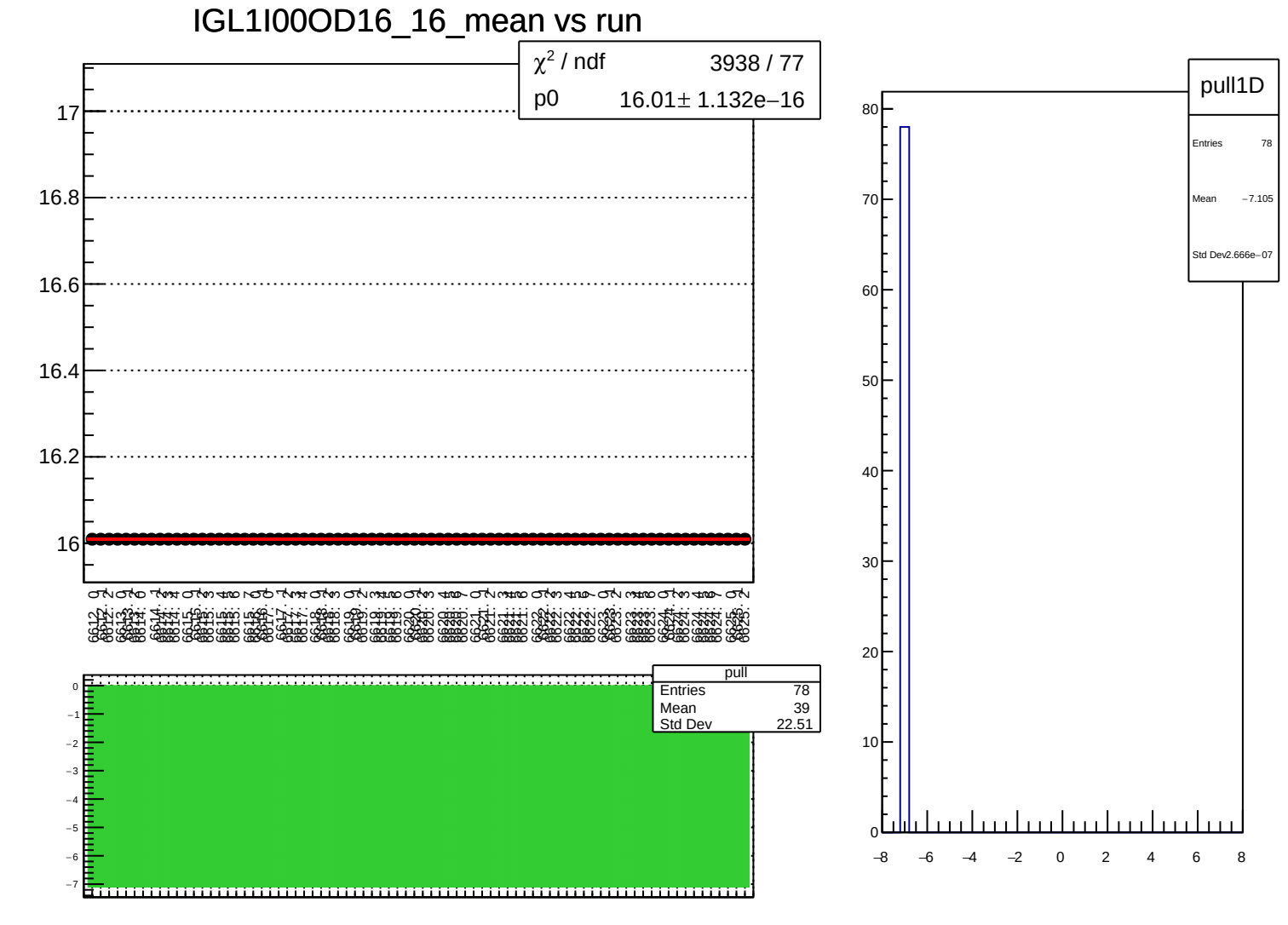

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

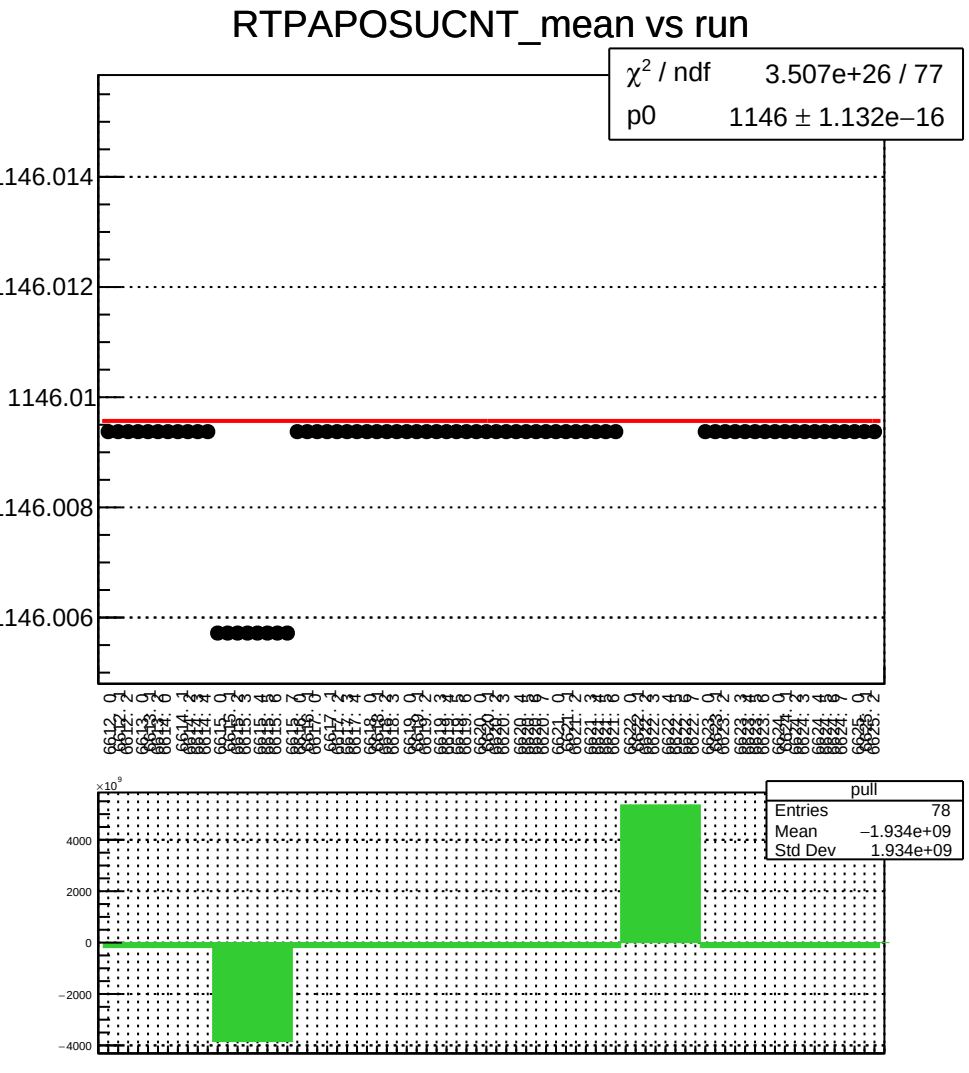

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.01901 / 77
p0 0.009375 ± 1.132e−16
×10⁻³
pull
Entries 78
Mean 39
Std Dev 22.51

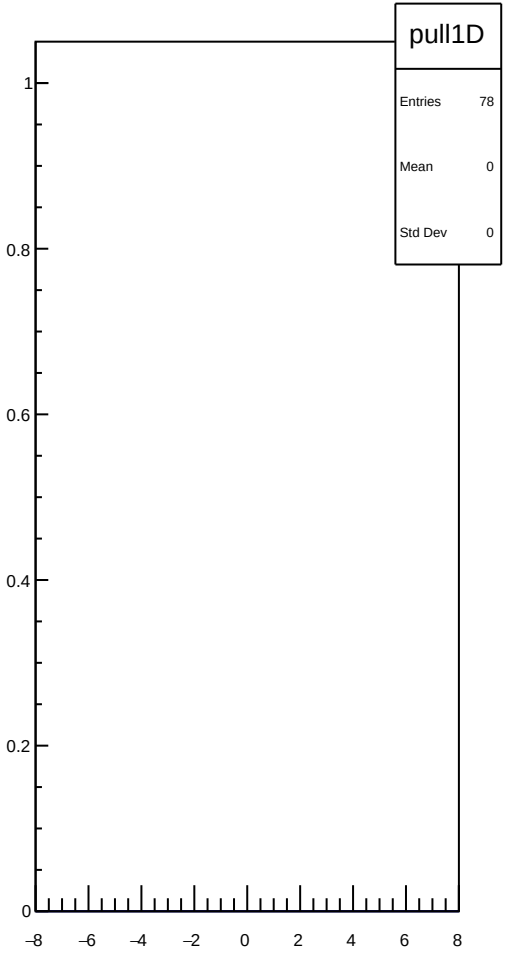

pull1D
Entries 78
Mean 0.01561
Std Dev1.646e−10

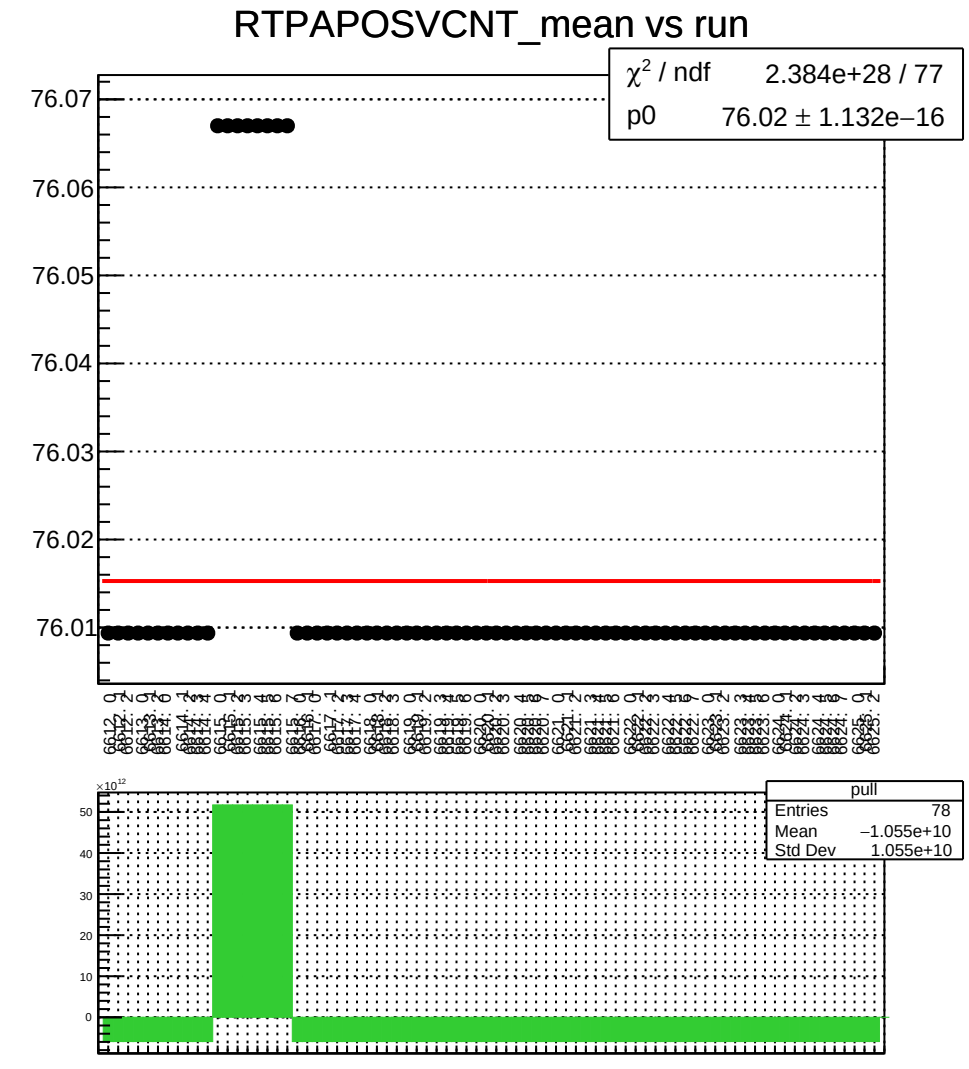

IGL1I00DI24_24M_mean vs run
χ² / ndf 7.031e+24 / 74
p0 17.01± 1.155e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 75
Mean −1.717e+09
Std Dev 1.717e+09

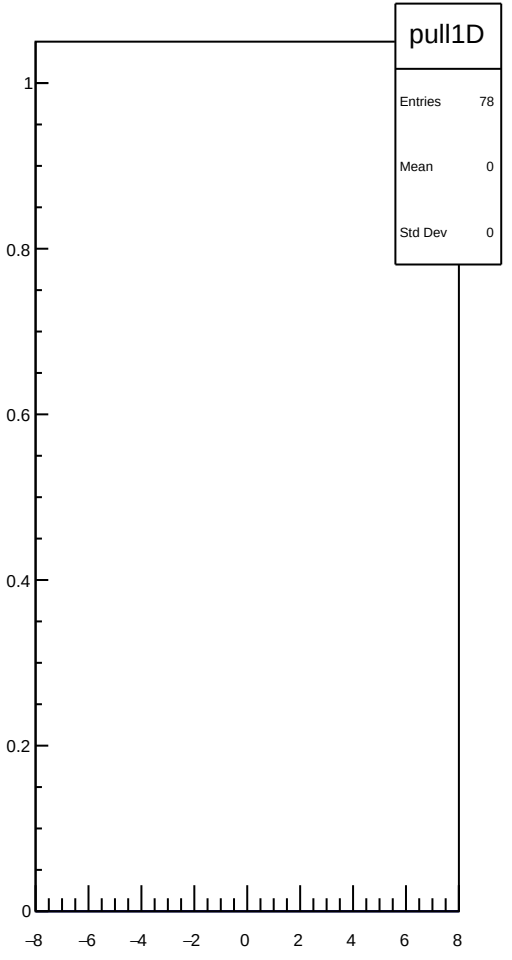

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 3938 / 77
p0 16.01± 1.132e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 78
Mean 39
Std Dev 22.51
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 78
Mean −7.105
Std Dev 2.666e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 3.507e+26 / 77
p0 1146 ± 1.132e−16
1146.014
1146.012
1146.01
1146.008
1146.006
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 78
Mean −1.934e+09
Std Dev 1.934e+09


pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 2.384e+28 / 77
p0 76.02 ± 1.132e−16
76.07
76.06
76.05
76.04
76.03
76.02
76.01
pull
Entries 78
Mean −1.055e+10
Std Dev 1.055e+10
×10¹²
50
40
30
20
10
0


pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8