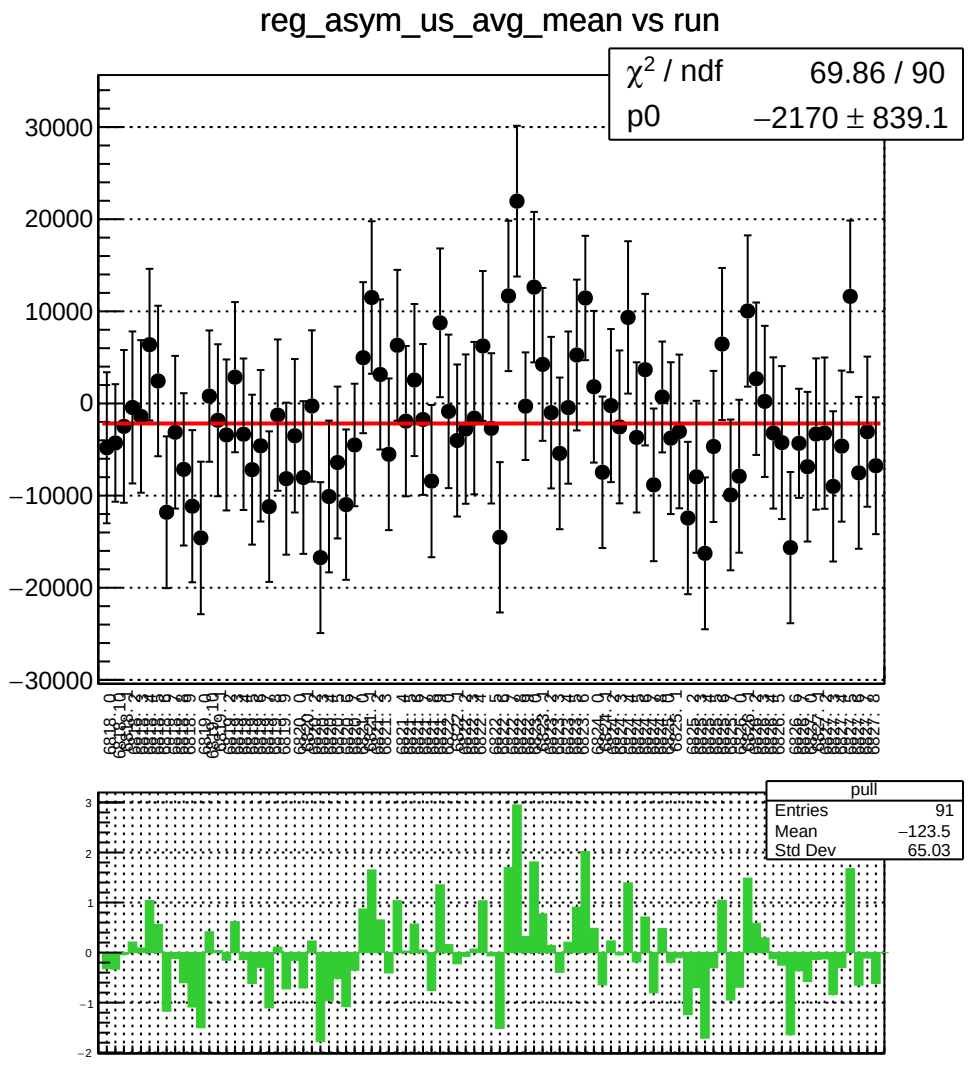
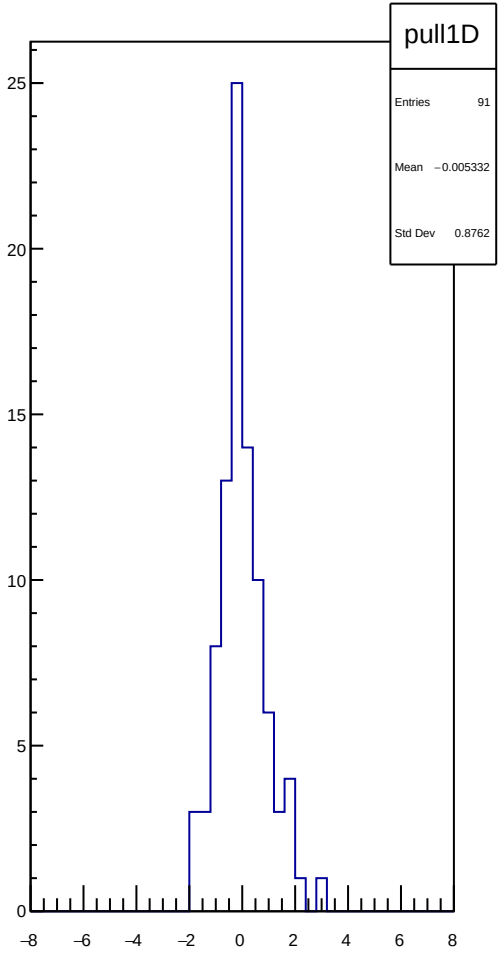
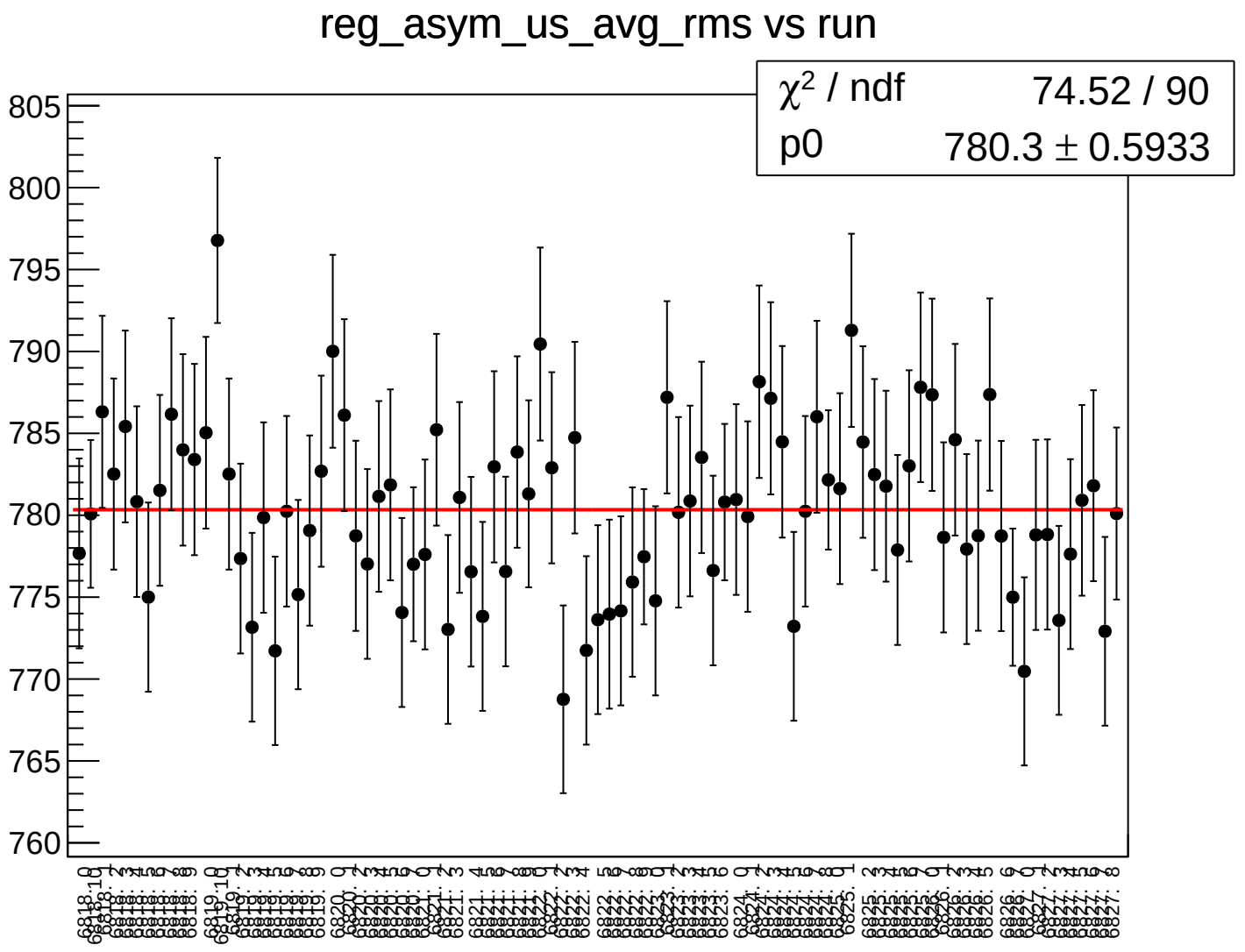
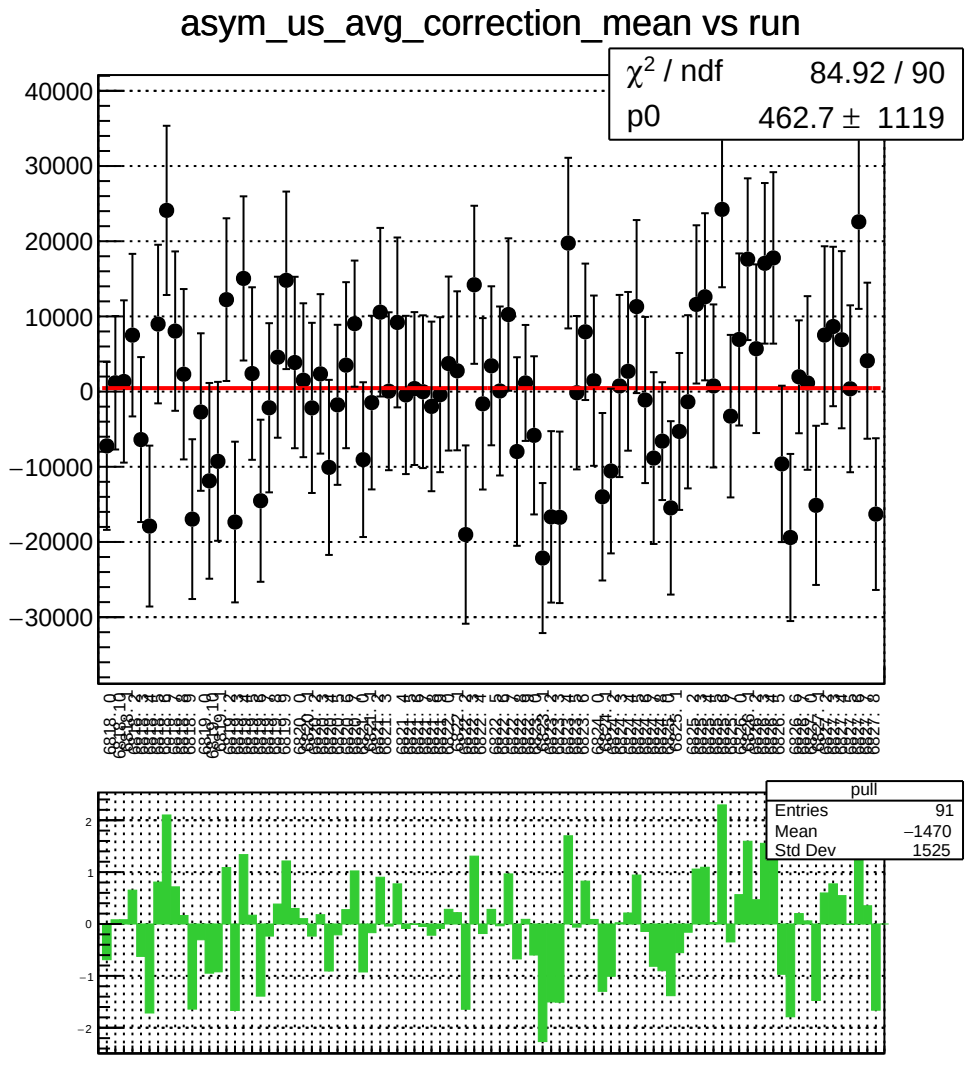
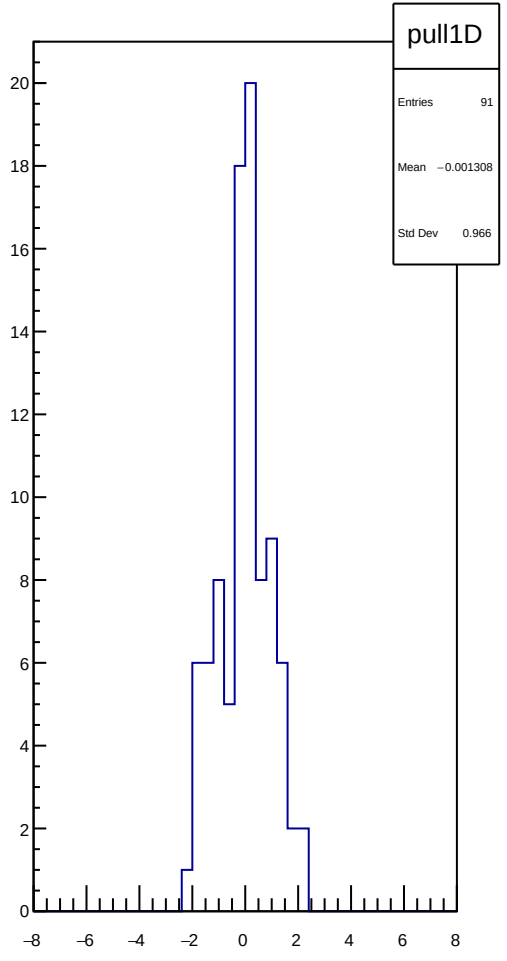
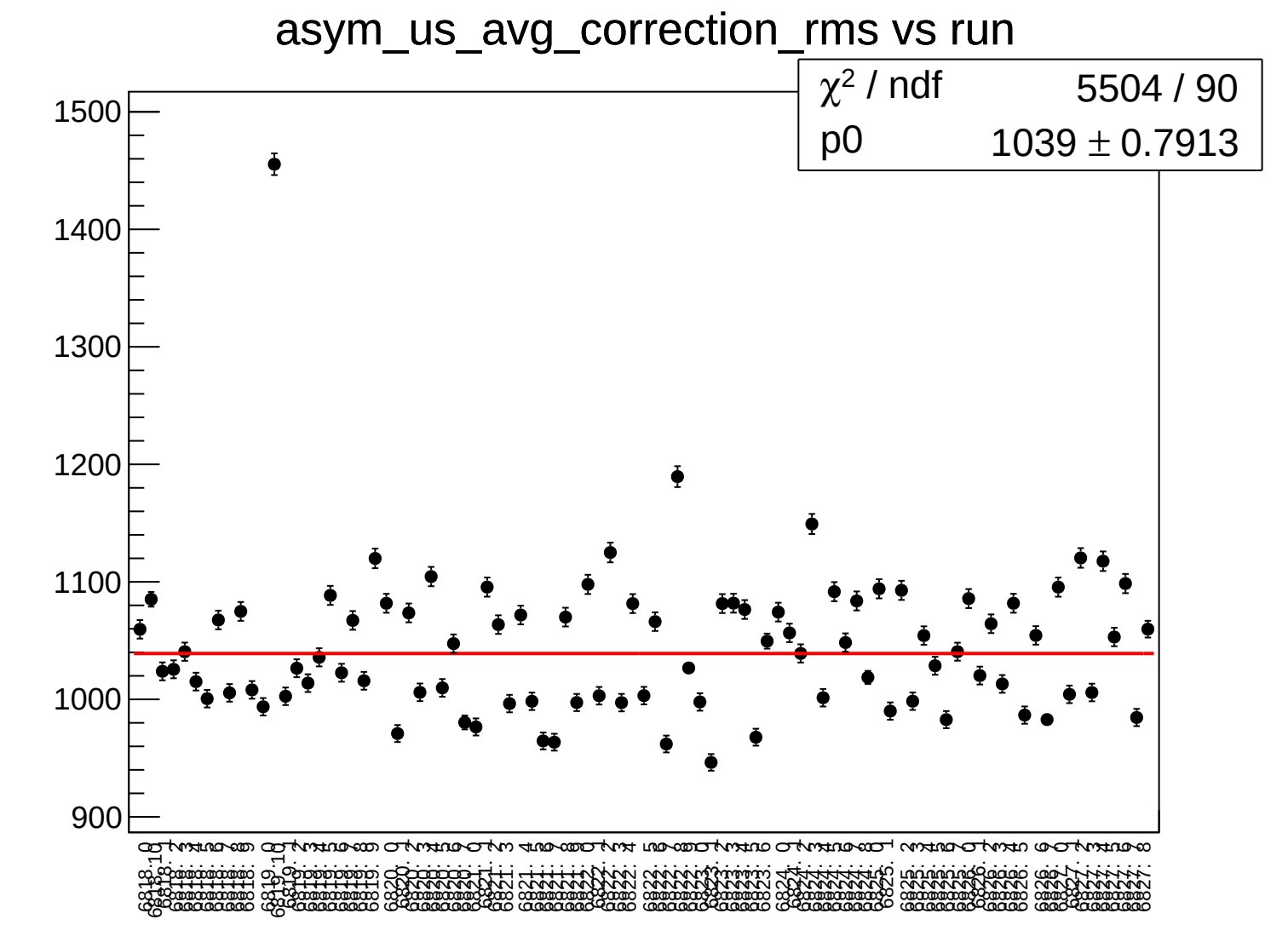

reg_asym_us_avg_mean vs run
χ² / ndf 69.86 / 90
p0 −2170 ± 839.1
pull
Entries 91
Mean −123.5
Std Dev 65.03

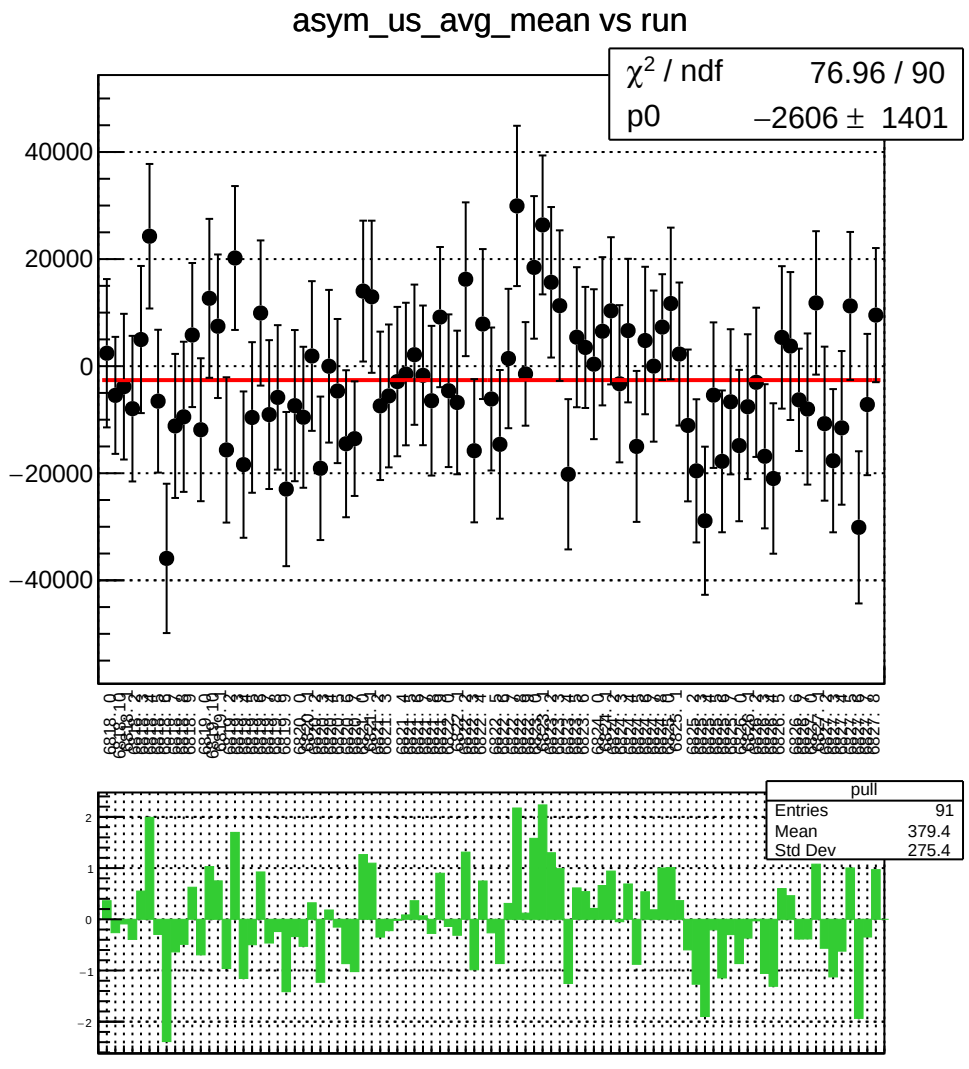

pull1D
Entries 91
Mean −0.005332
Std Dev 0.8762

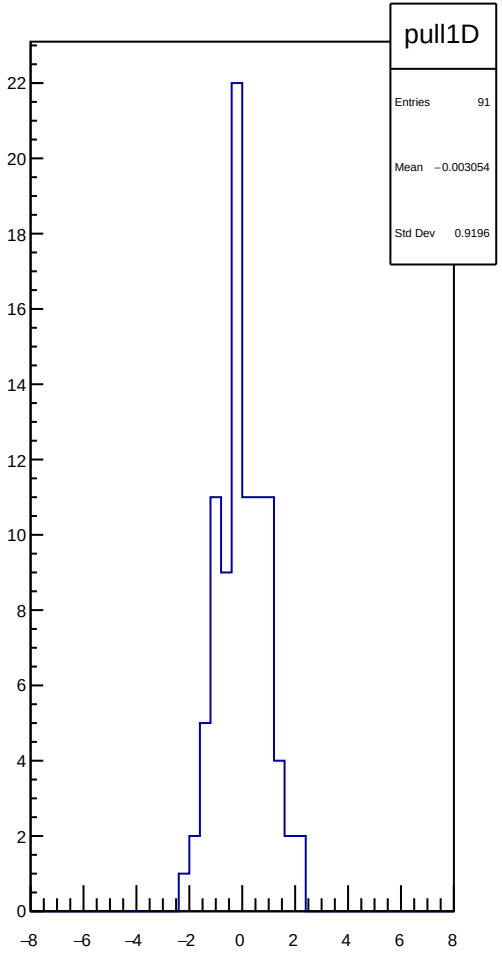

reg_asym_us_avg_rms vs run
χ² / ndf 74.52 / 90
p0 780.3 ± 0.5933
805
800
795
790
785
780
775
770
765
760

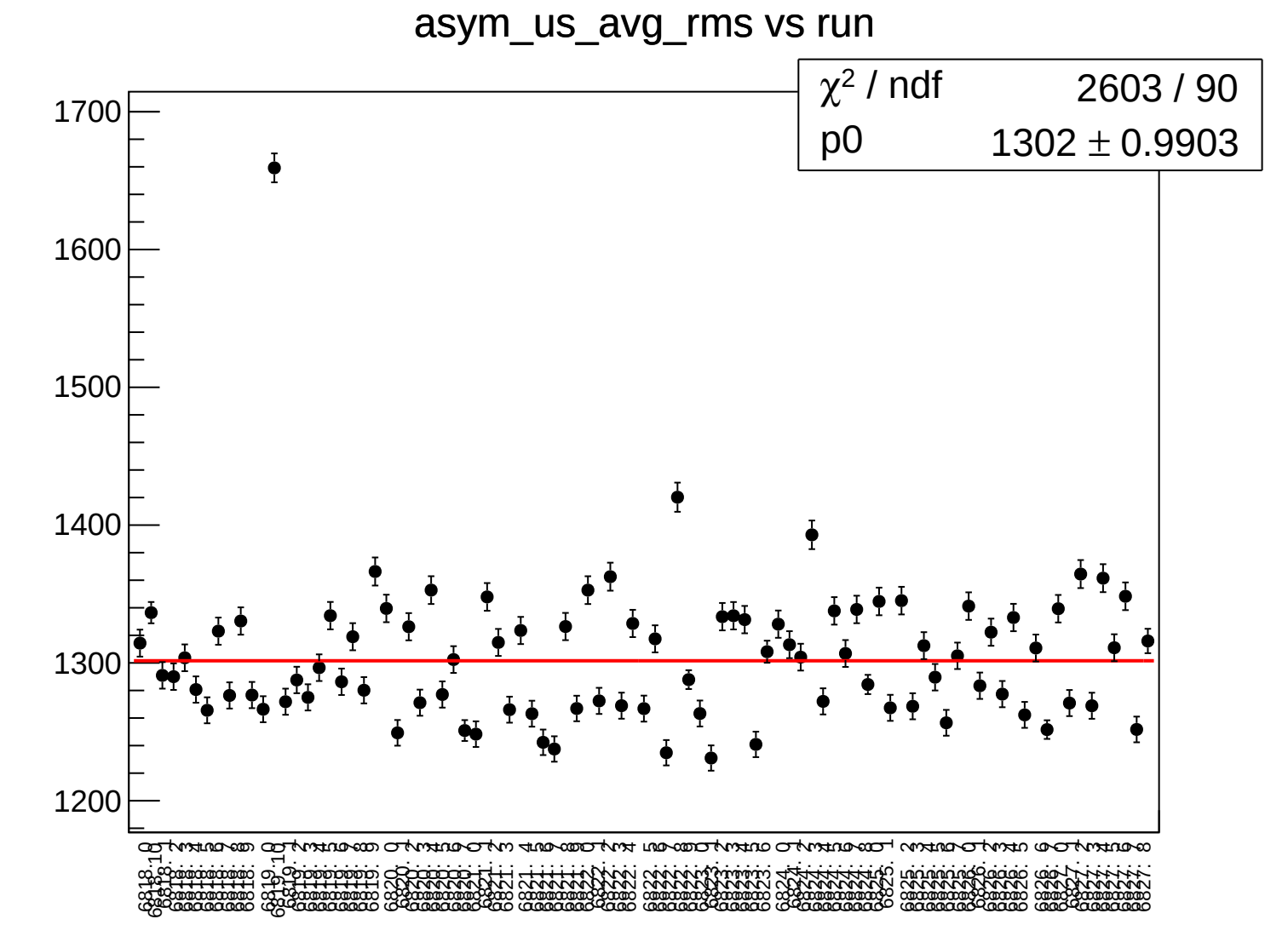

asym_us_avg_correction_mean vs run
χ² / ndf 84.92 / 90
p0 462.7 ± 1119
pull
Entries 91
Mean −1470
Std Dev 1525

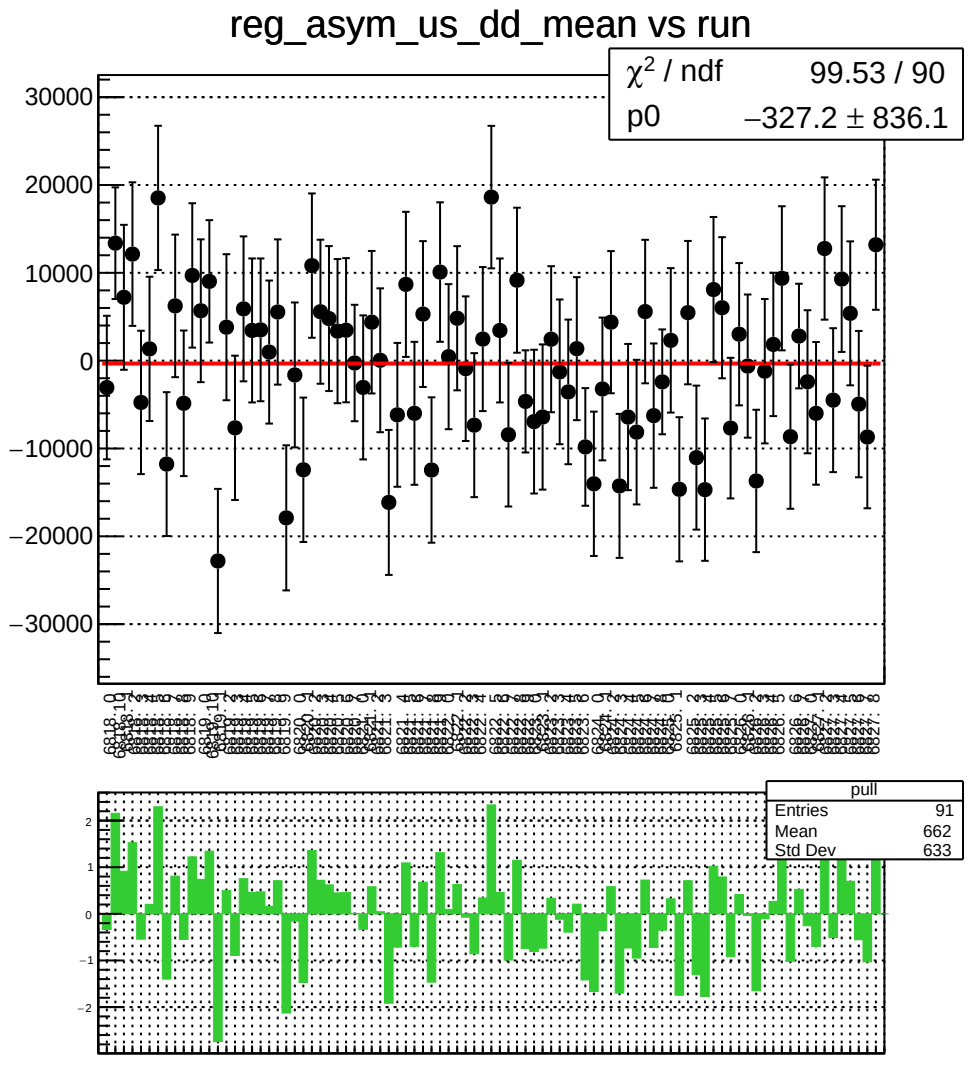

pull1D
Entries 91
Mean −0.001308
Std Dev 0.966

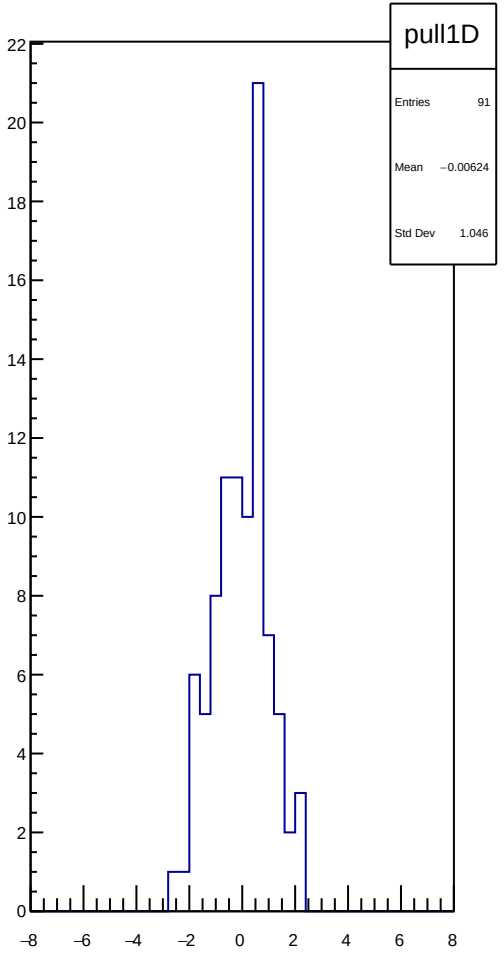

asym_us_avg_correction_rms vs run
χ² / ndf 5504 / 90
p0 1039 ± 0.7913
1500
1400
1300
1200
1100
1000
900

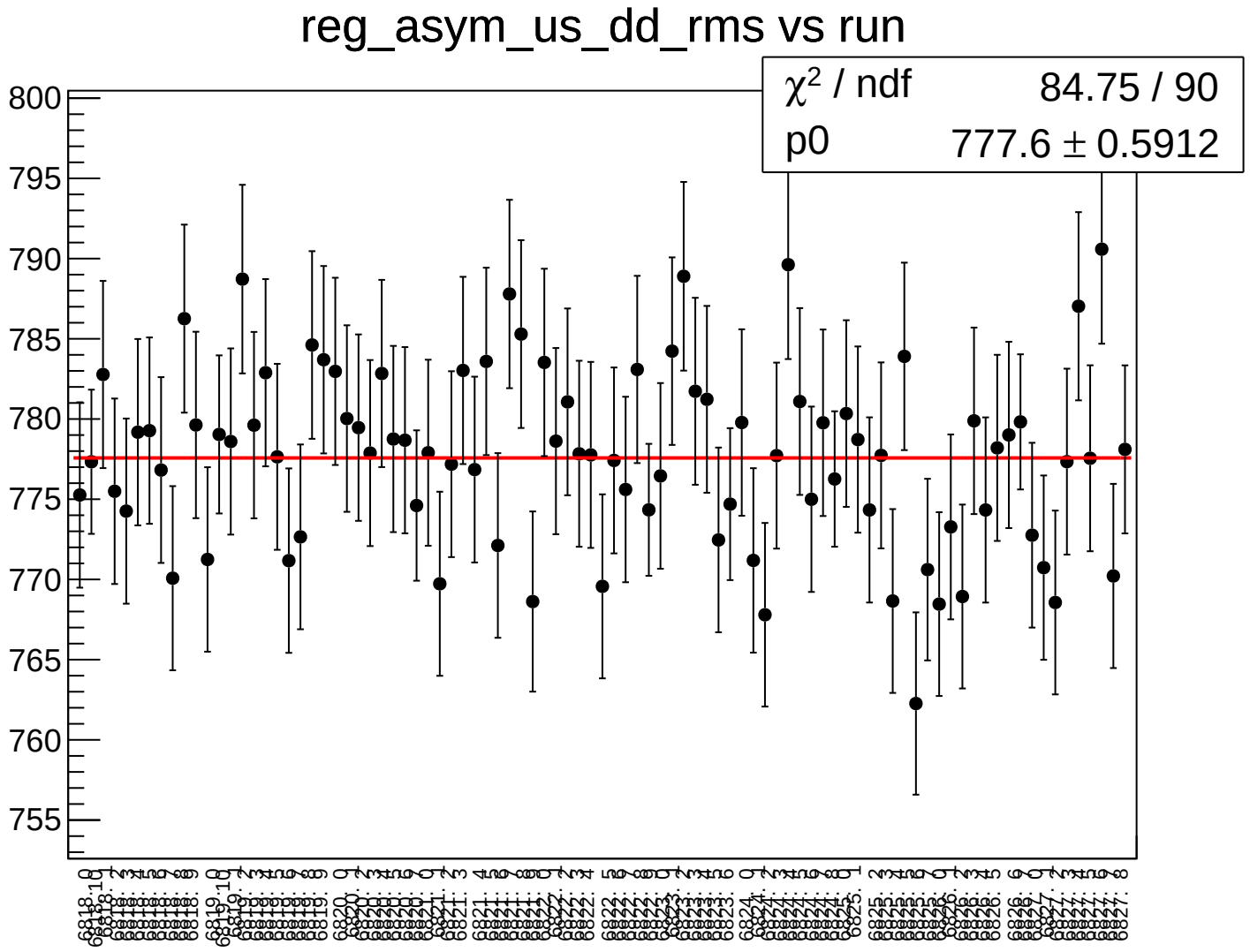

asym_us_avg_mean vs run
χ² / ndf 76.96 / 90
p0 −2606 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 379.4
Std Dev 275.4
2
1
0
−1
−2

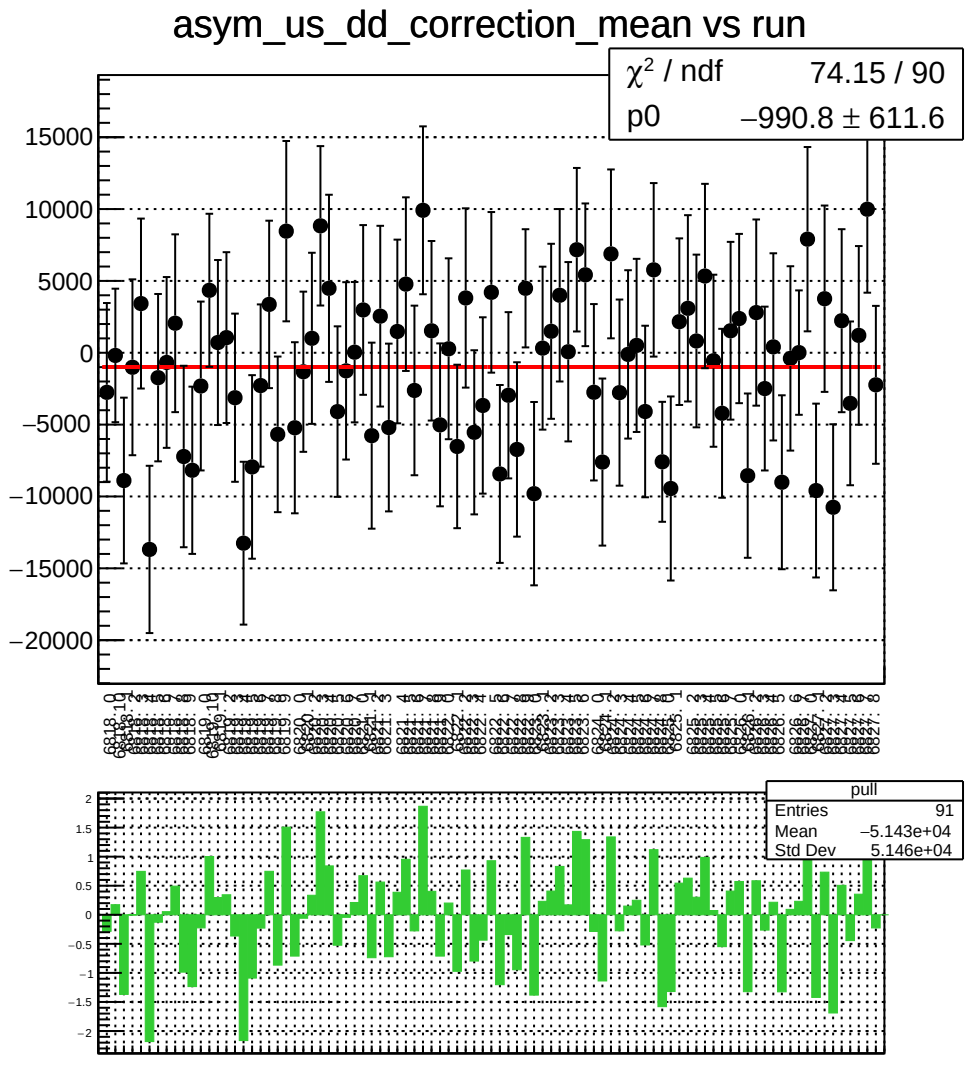

pull1D
Entries 91
Mean −0.003054
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

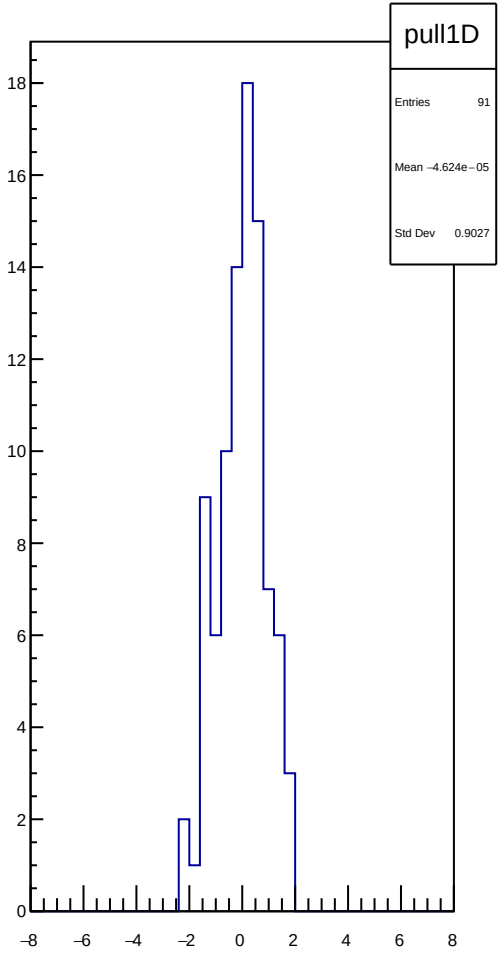

asym_us_avg_rms vs run
χ² / ndf 2603 / 90
p0 1302 ± 0.9903
1700
1600
1500
1400
1300
1200

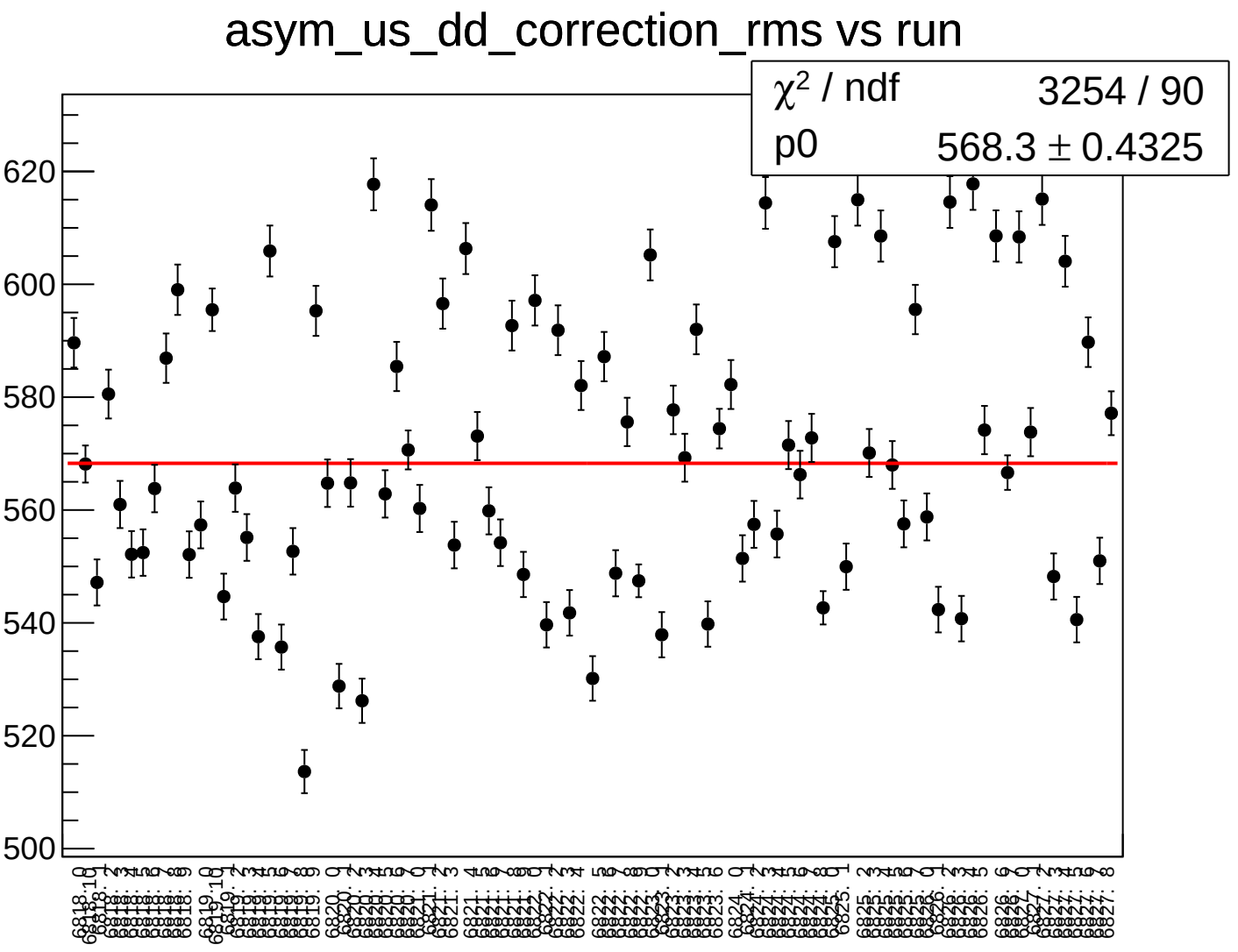

reg_asym_us_dd_mean vs run
χ² / ndf 99.53 / 90
p0 −327.2 ± 836.1
pull
Entries 91
Mean 662
Std Dev 633

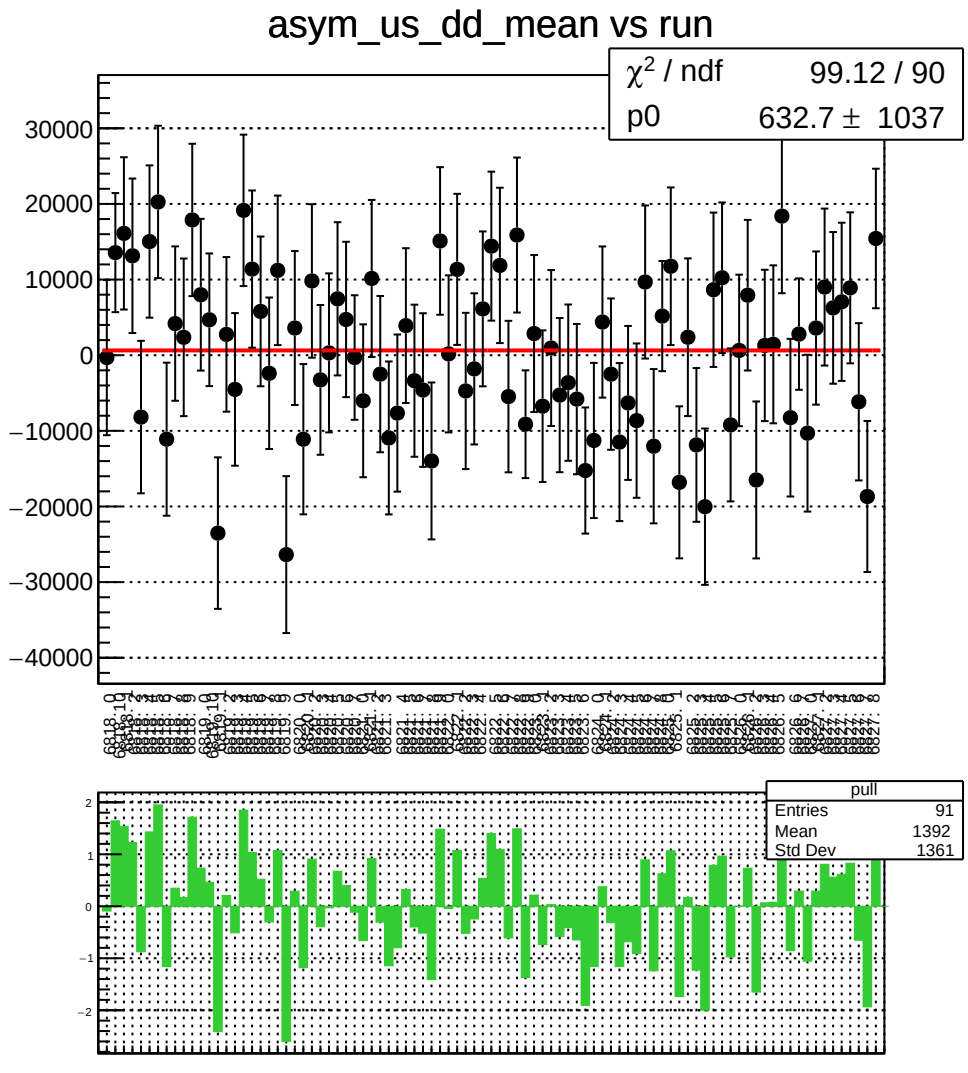

pull1D
Entries 91
Mean −0.00624
Std Dev 1.046

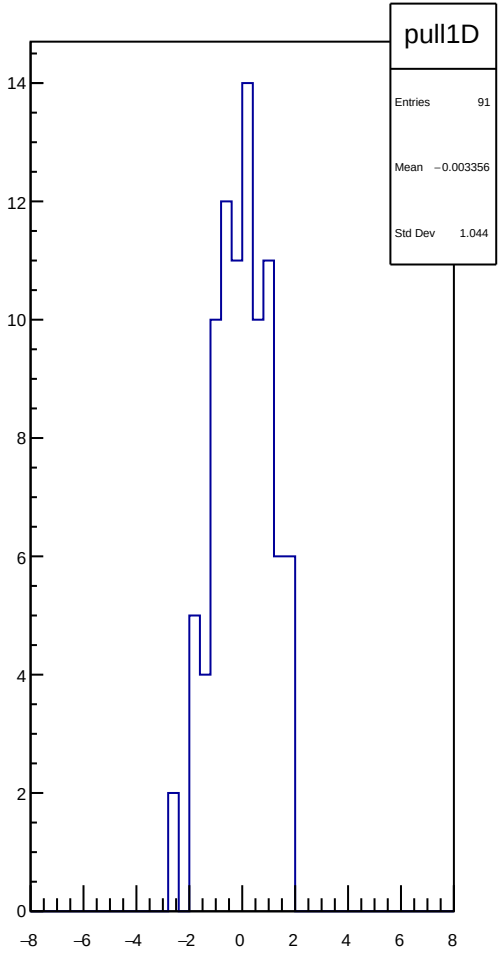

reg_asym_us_dd_rms vs run
χ^2 / ndf 84.75 / 90
p0 777.6 ± 0.5912
800
795
790
785
780
775
770
765
760
755

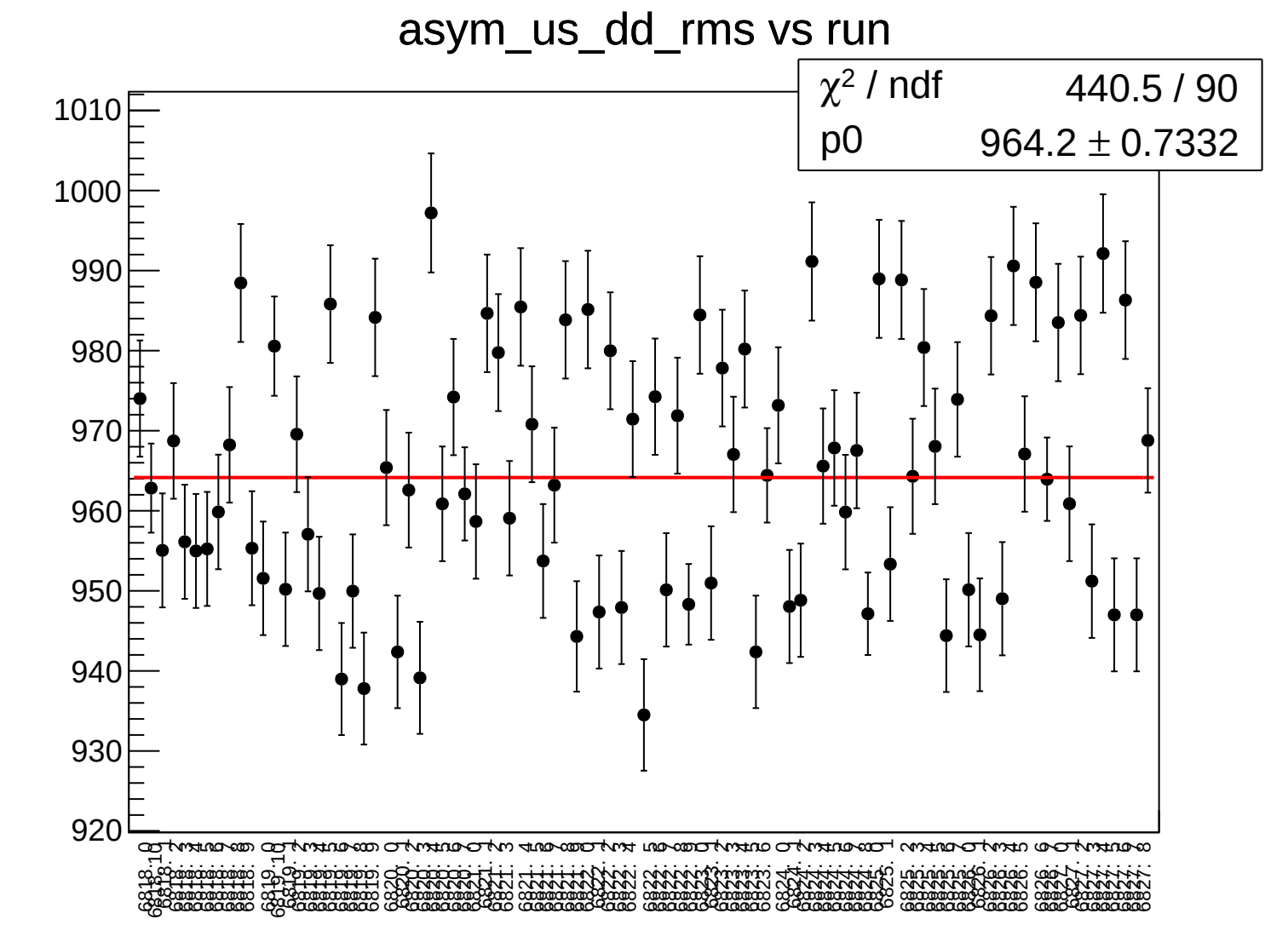

asym_us_dd_correction_mean vs run
χ² / ndf 74.15 / 90
p0 −990.8 ± 611.6
pull
Entries 91
Mean −5.143e+04
Std Dev 5.146e+04

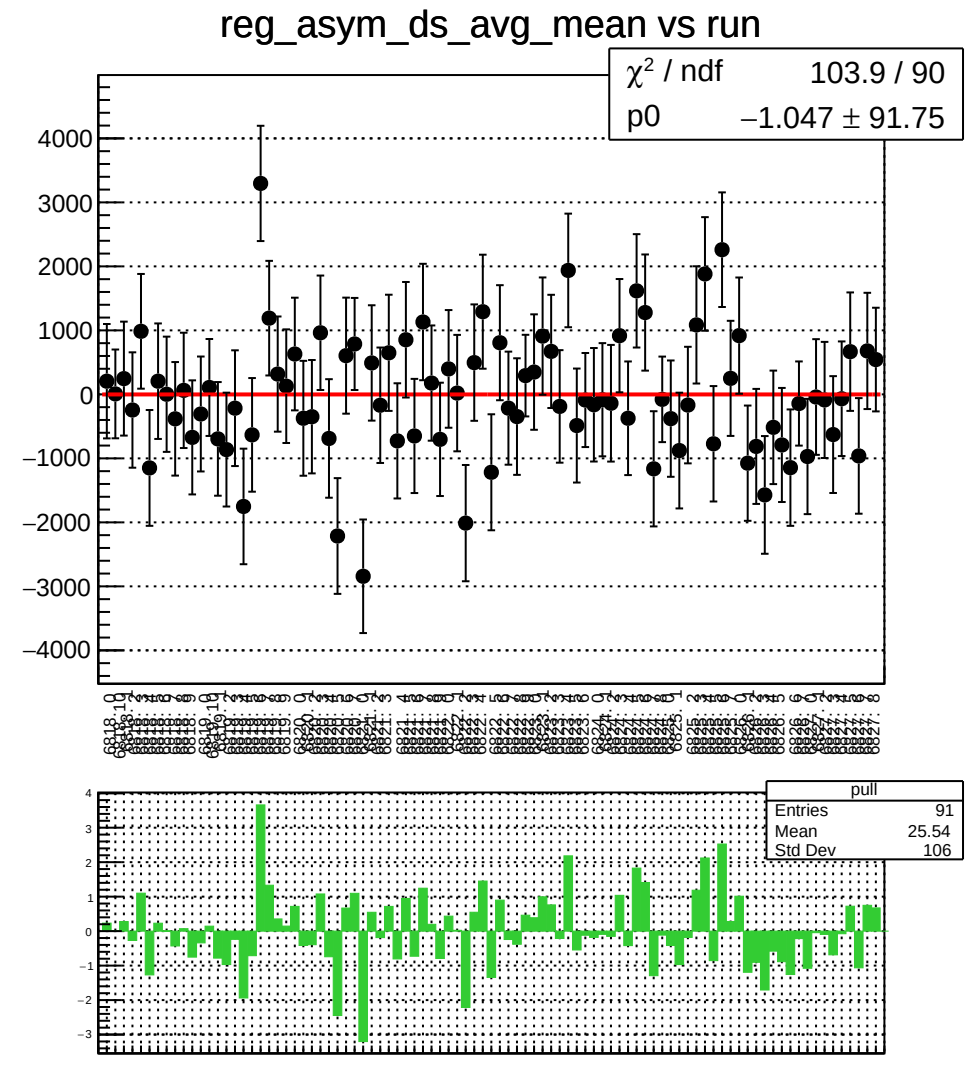

pull1D
Entries 91
Mean −4.624e−05
Std Dev 0.9027

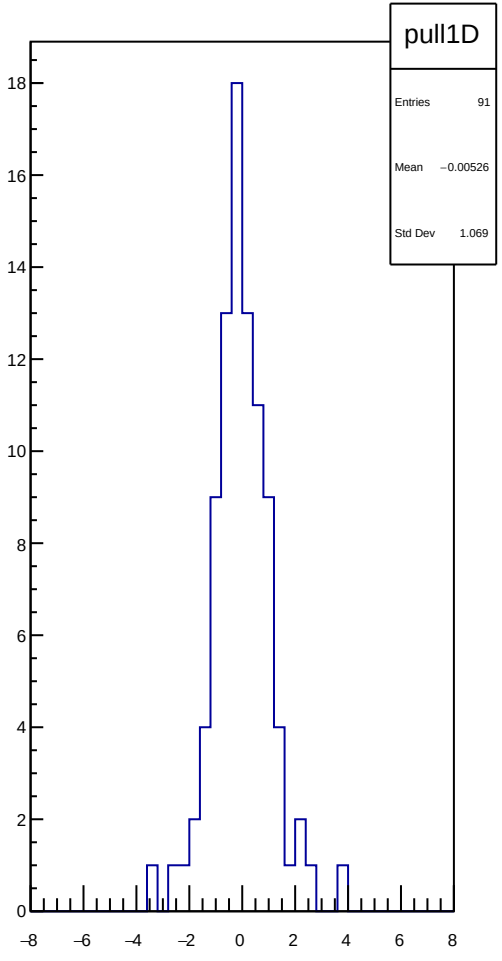

asym_us_dd_correction_rms vs run
χ² / ndf 3254 / 90
p0 568.3 ± 0.4325
620
600
580
560
540
520
500

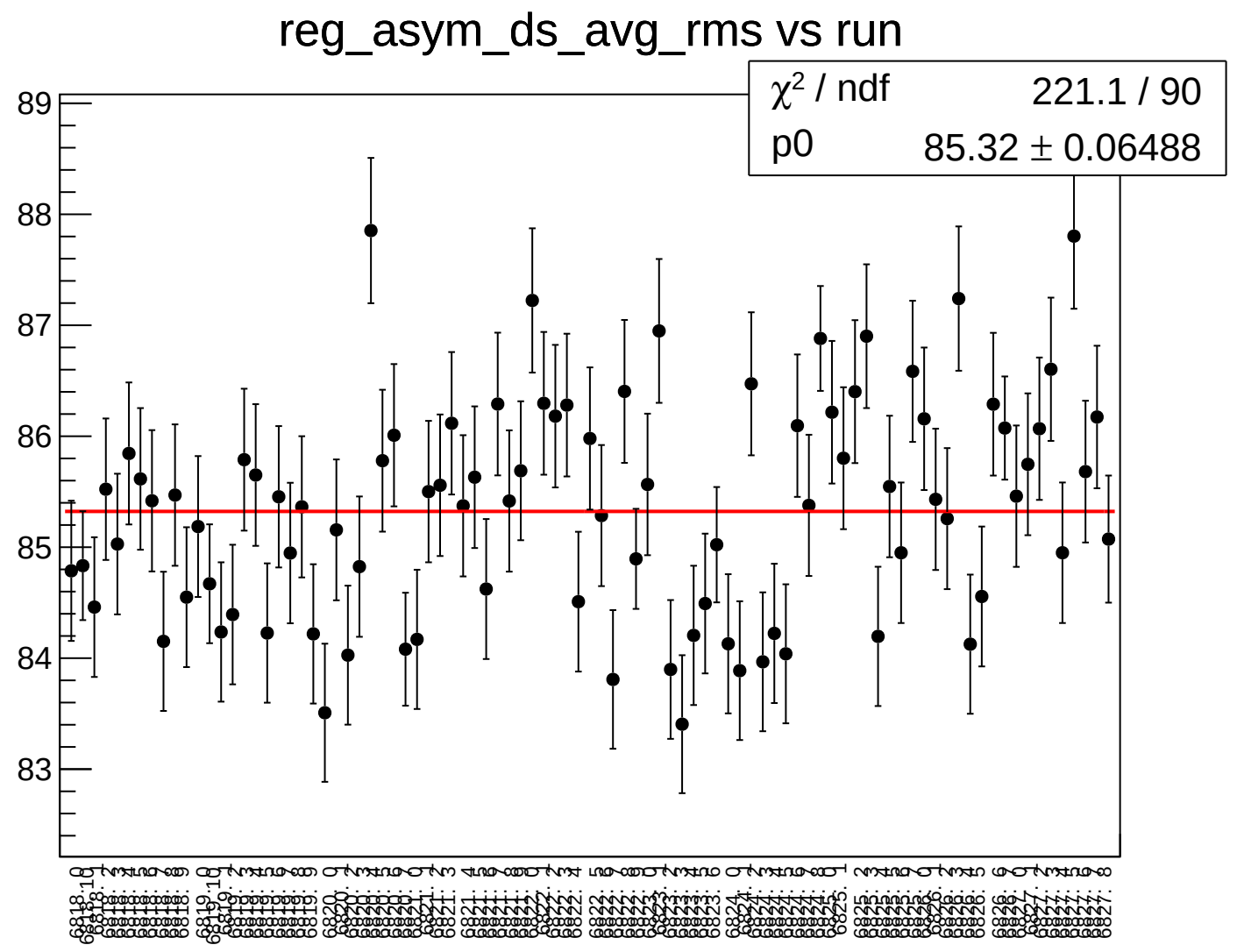

asym_us_dd_mean vs run
χ² / ndf 99.12 / 90
p0 632.7 ± 1037
pull
Entries 91
Mean 1392
Std Dev 1361

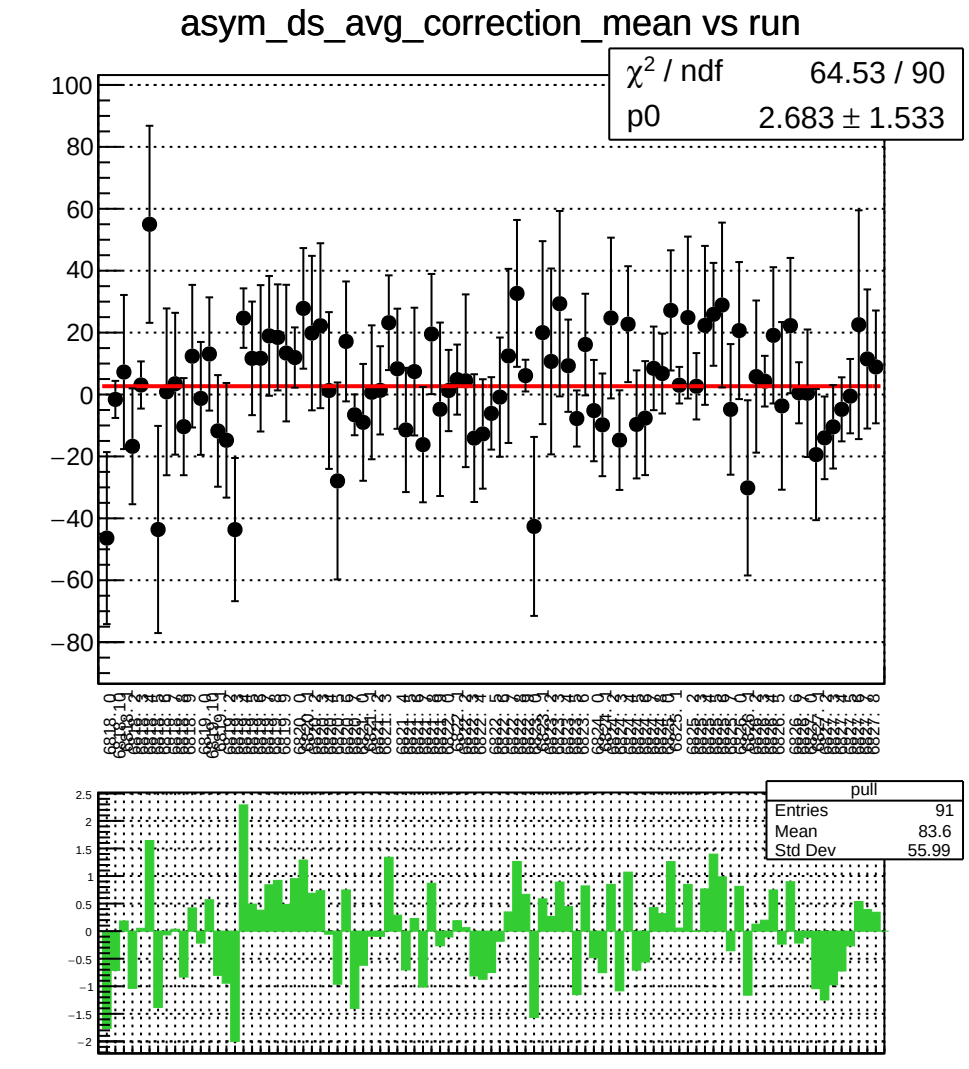

pull1D
Entries 91
Mean −0.003356
Std Dev 1.044

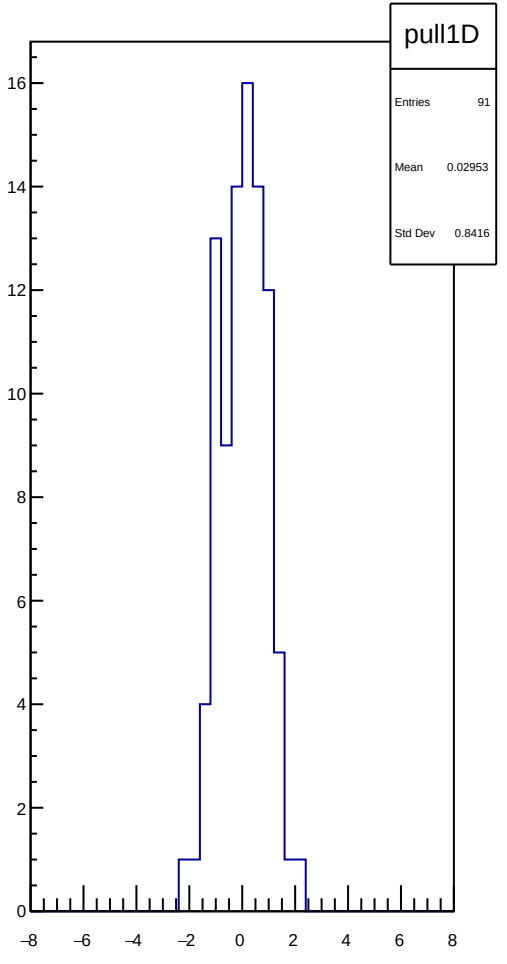

asym_us_dd_rms vs run
χ² / ndf 440.5 / 90
p0 964.2 ± 0.7332
1010
1000
990
980
970
960
950
940
930
920

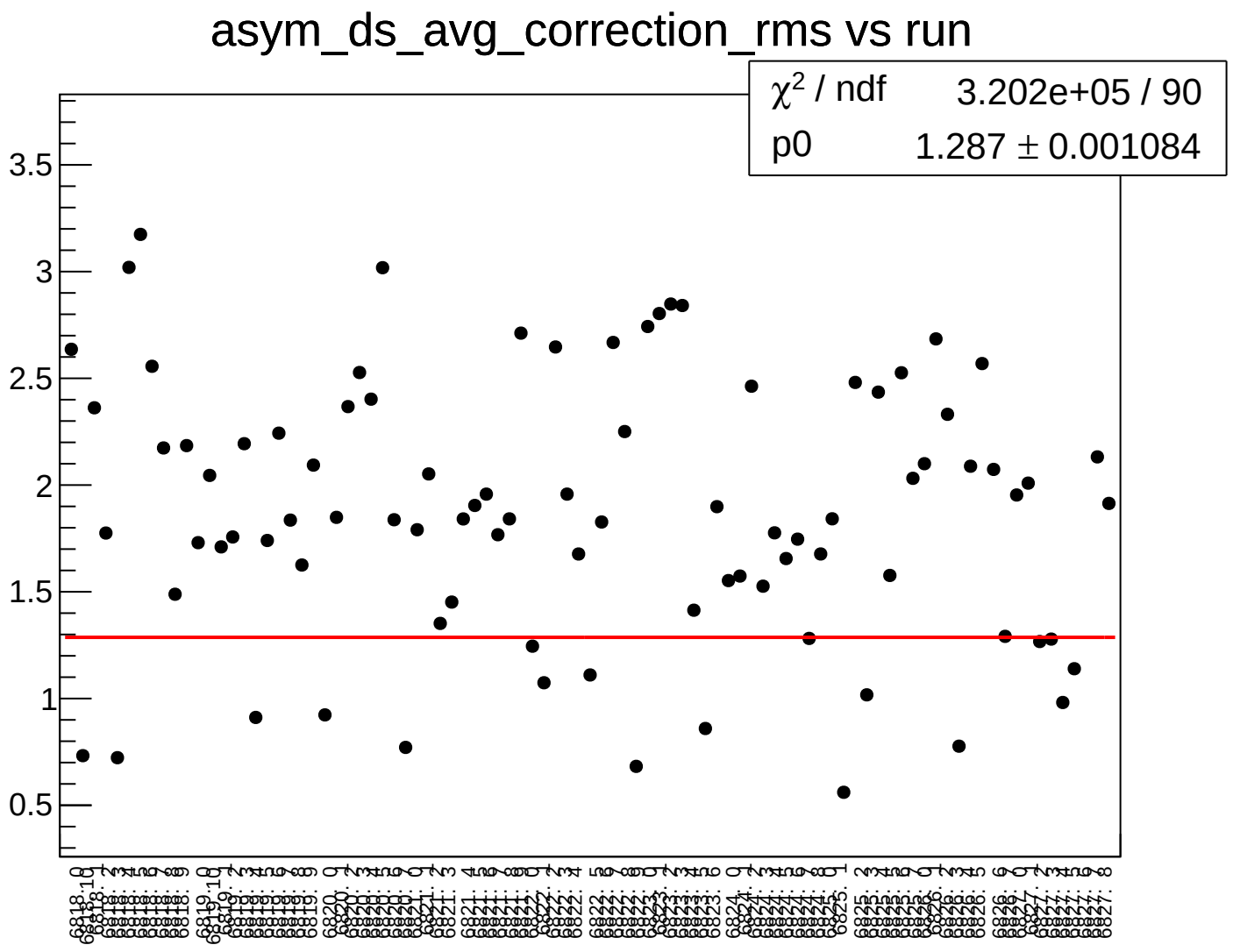

reg_asym_ds_avg_mean vs run
χ² / ndf 103.9 / 90
p0 −1.047 ± 91.75
pull
Entries 91
Mean 25.54
Std Dev 106

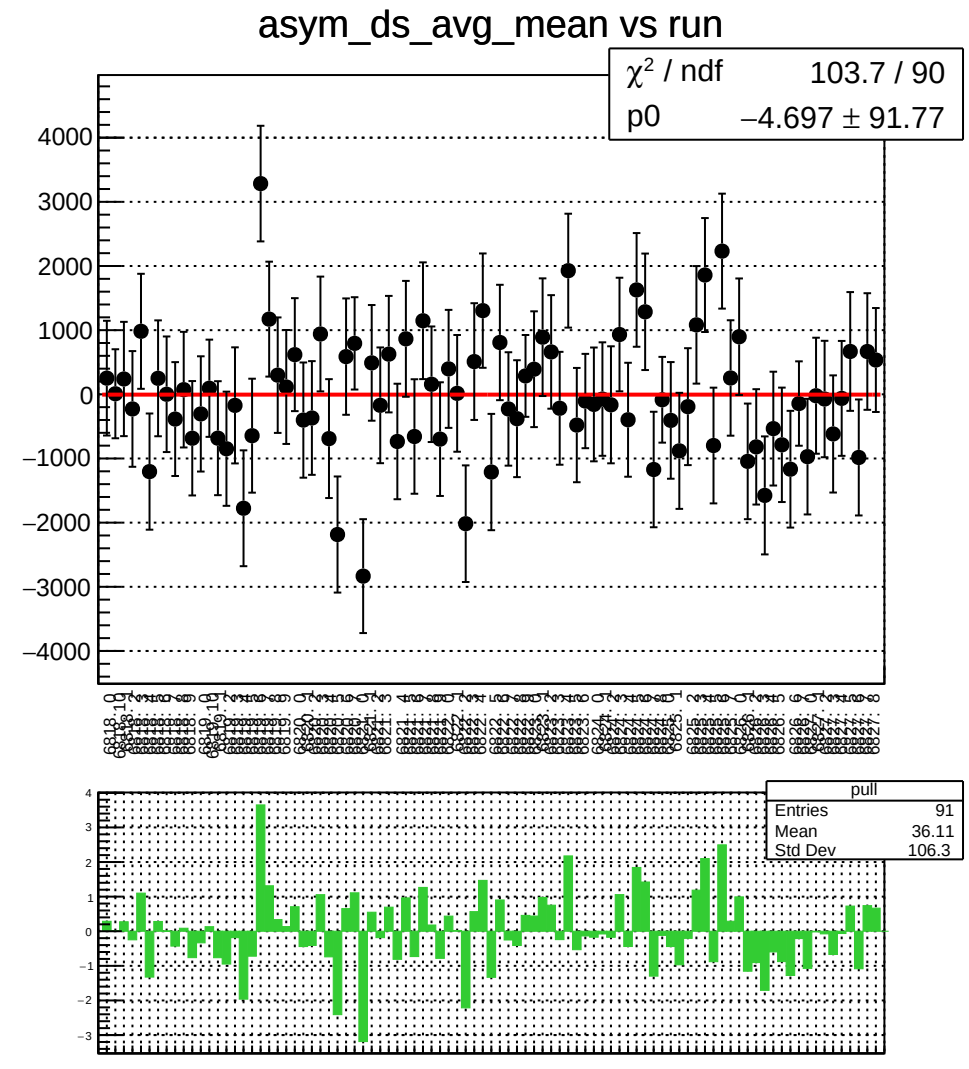

pull1D
Entries 91
Mean −0.00526
Std Dev 1.069

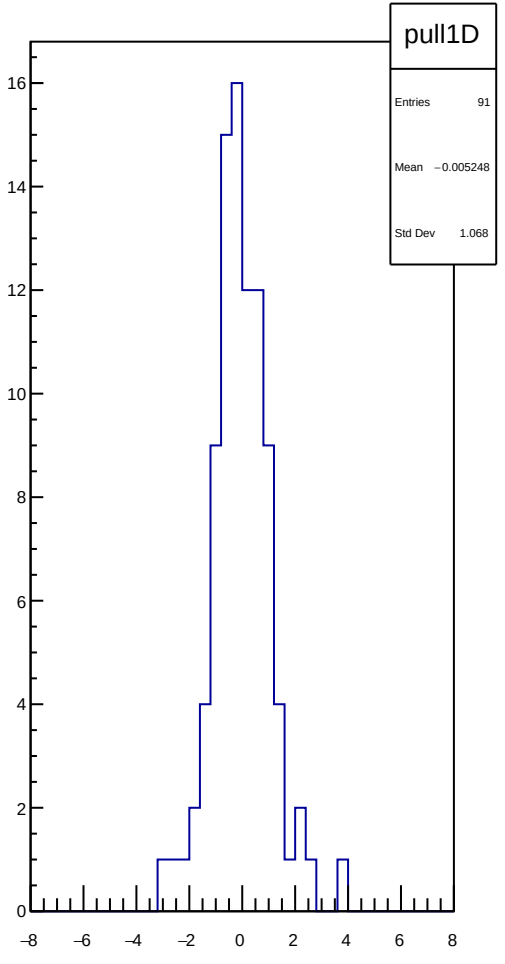

reg_asym_ds_avg_rms vs run
χ^2 / ndf 221.1 / 90
p0 85.32 ± 0.06488
89
88
87
86
85
84
83

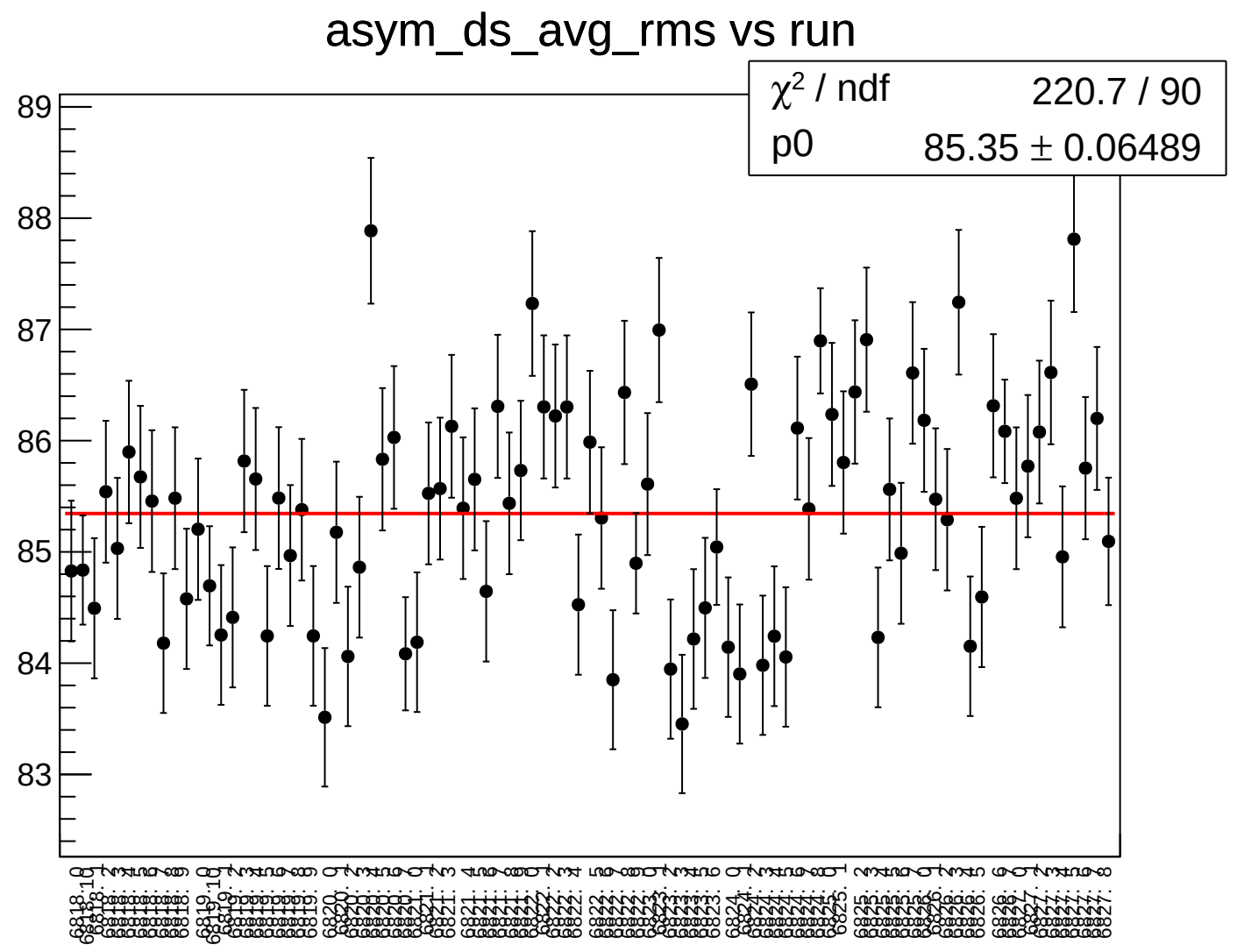

asym_ds_avg_correction_mean vs run
χ² / ndf 64.53 / 90
p0 2.683 ± 1.533
pull
Entries 91
Mean 83.6
Std Dev 55.99

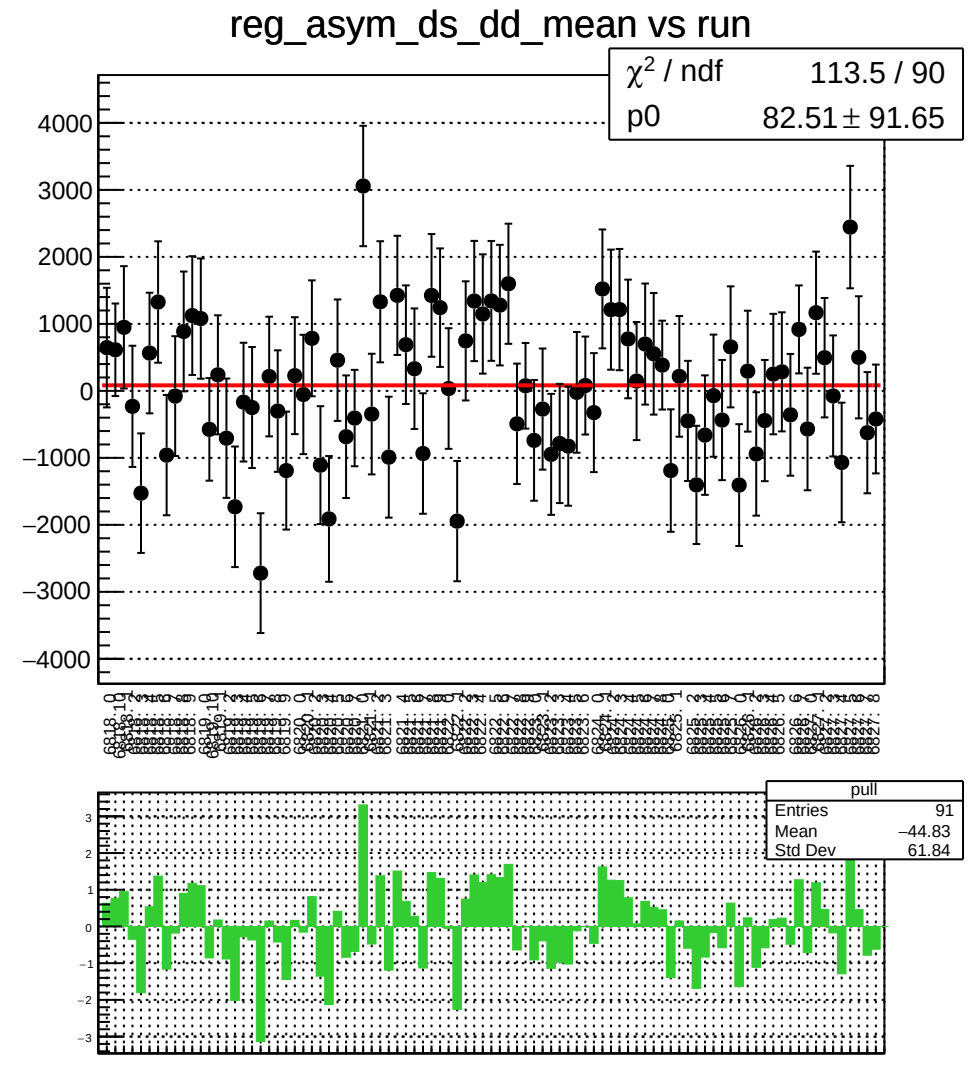

pull1D
Entries 91
Mean 0.02953
Std Dev 0.8416

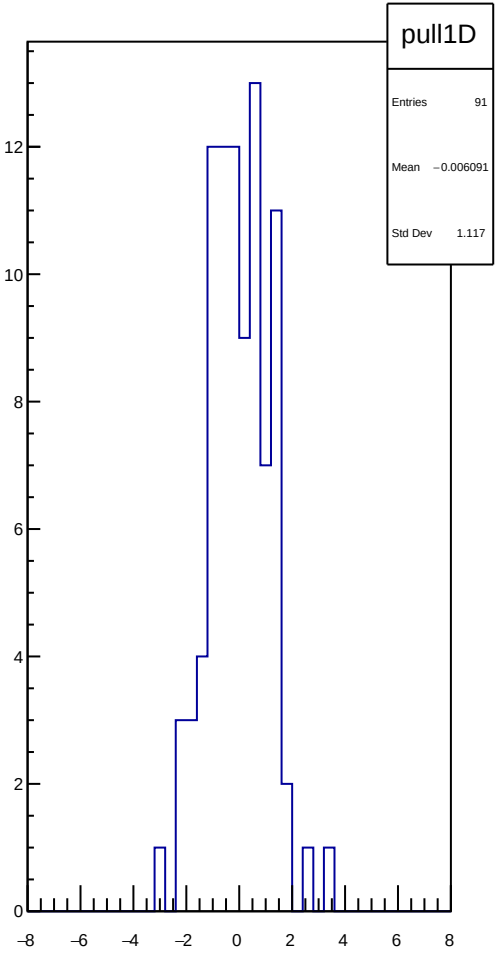

asym_ds_avg_correction_rms vs run
χ² / ndf 3.202e+05 / 90
p0 1.287 ± 0.001084
3.5
3
2.5
2
1.5
1
0.5

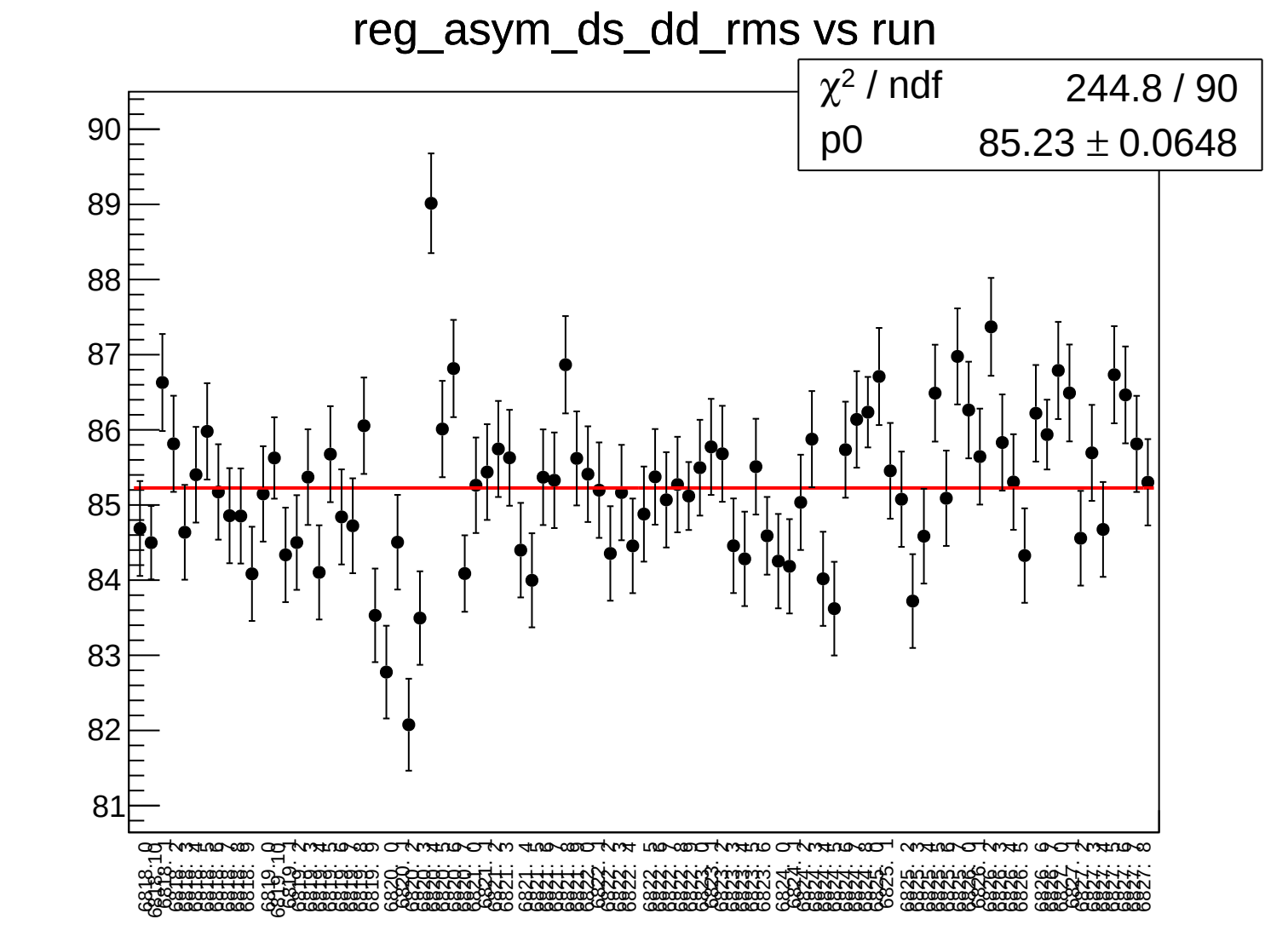

asym_ds_avg_mean vs run
χ² / ndf 103.7 / 90
p0 −4.697 ± 91.77
pull
Entries 91
Mean 36.11
Std Dev 106.3

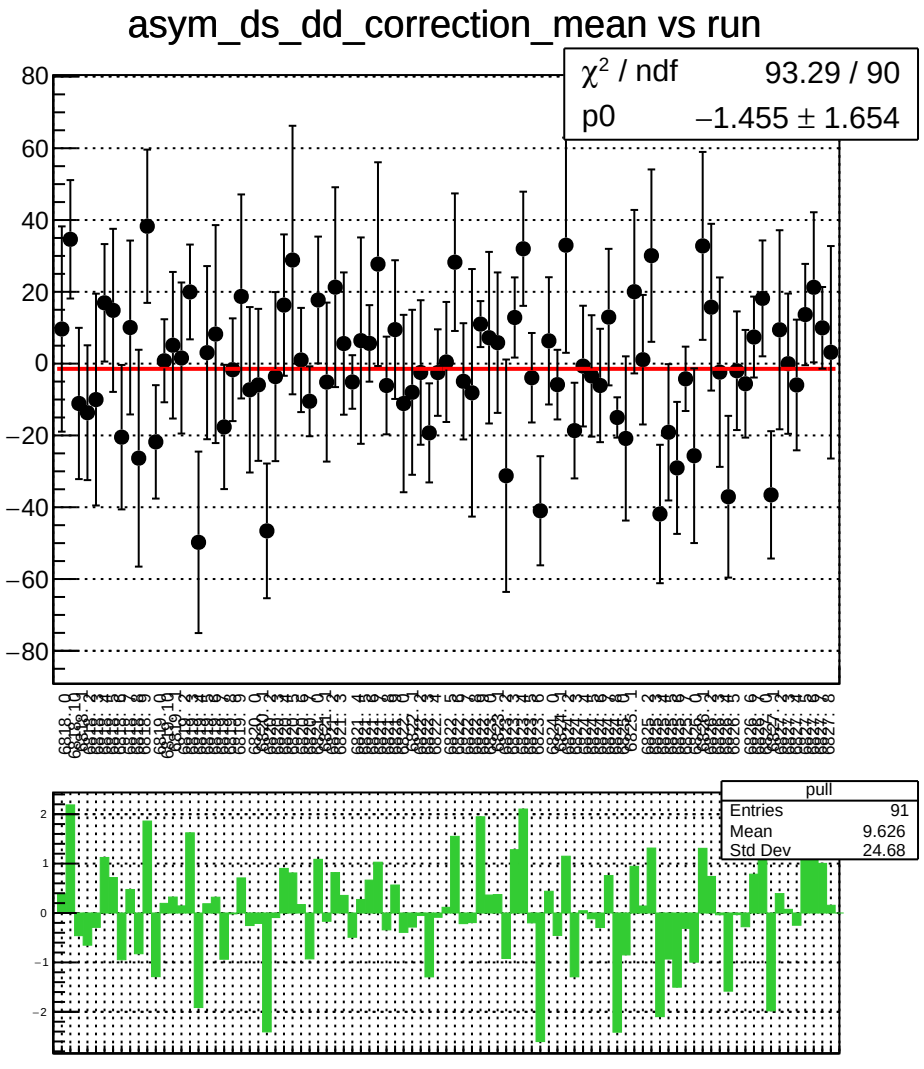

pull1D
Entries 91
Mean −0.005248
Std Dev 1.068

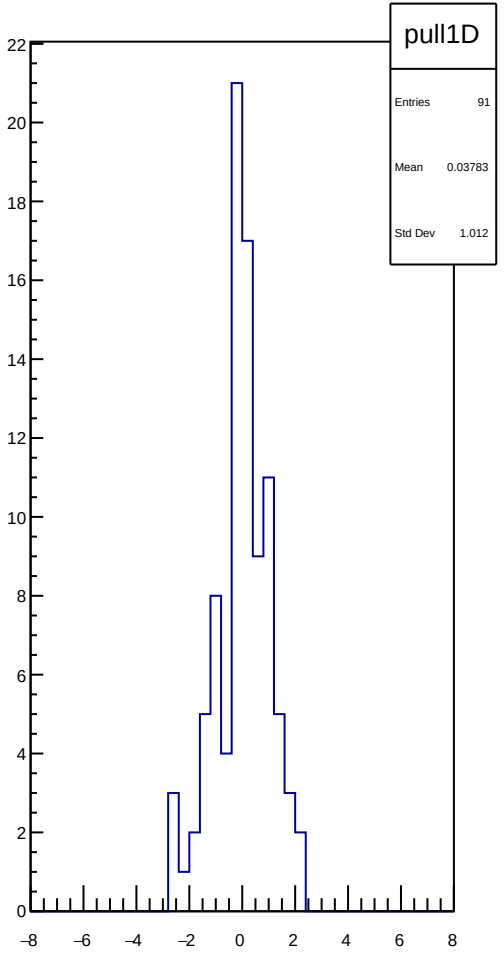

asym_ds_avg_rms vs run
χ² / ndf 220.7 / 90
p0 85.35 ± 0.06489
89
88
87
86
85
84
83

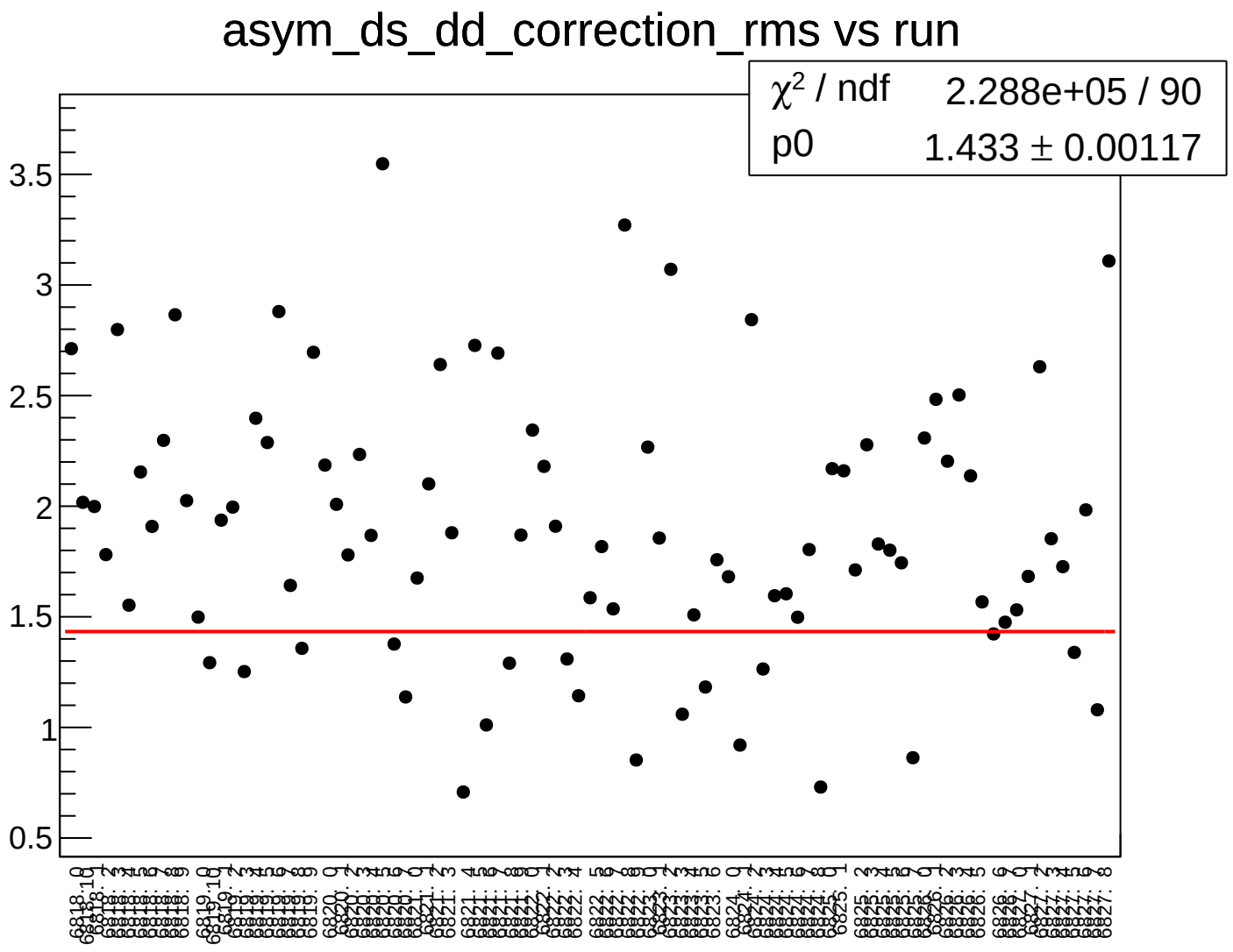

reg_asym_ds_dd_mean vs run
χ² / ndf 113.5 / 90
p0 82.51 ± 91.65
pull
Entries 91
Mean −44.83
Std Dev 61.84

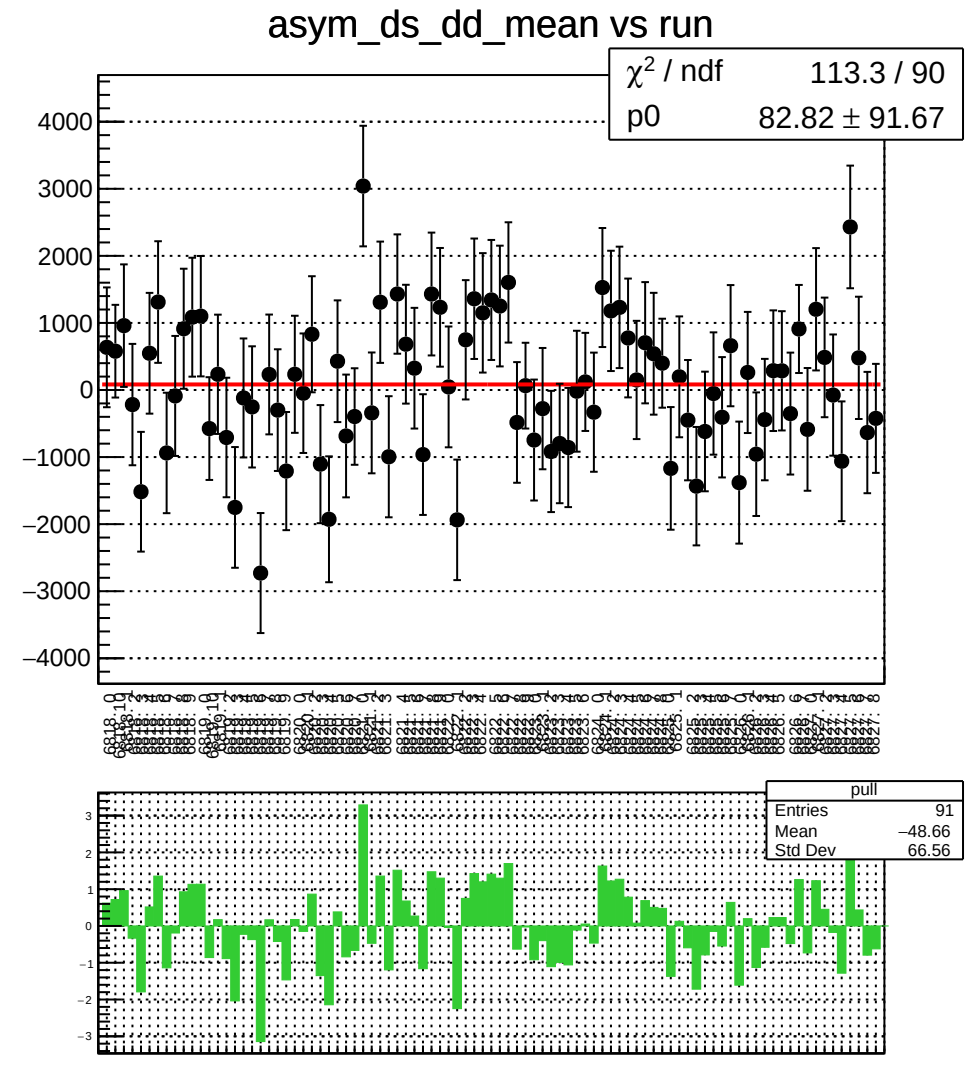

pull1D
Entries 91
Mean −0.006091
Std Dev 1.117

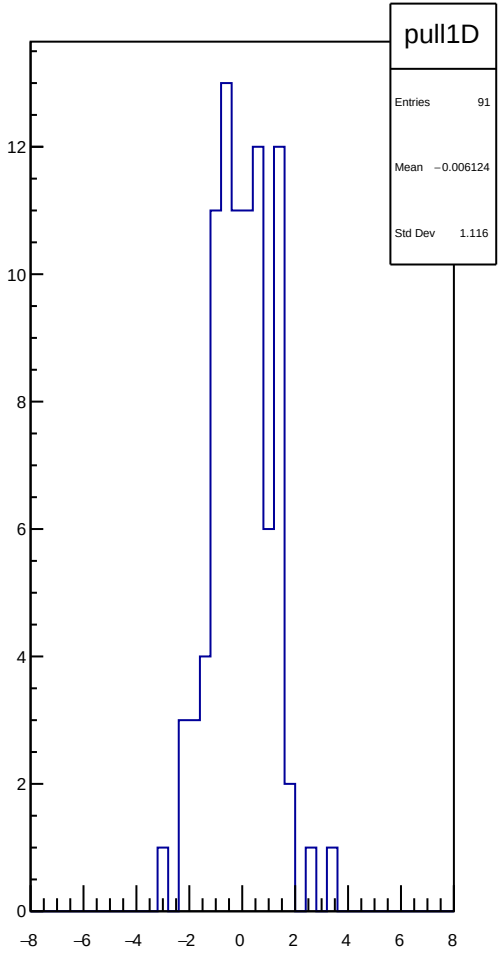

reg_asym_ds_dd_rms vs run
χ² / ndf 244.8 / 90
p0 85.23 ± 0.0648
90
89
88
87
86
85
84
83
82
81

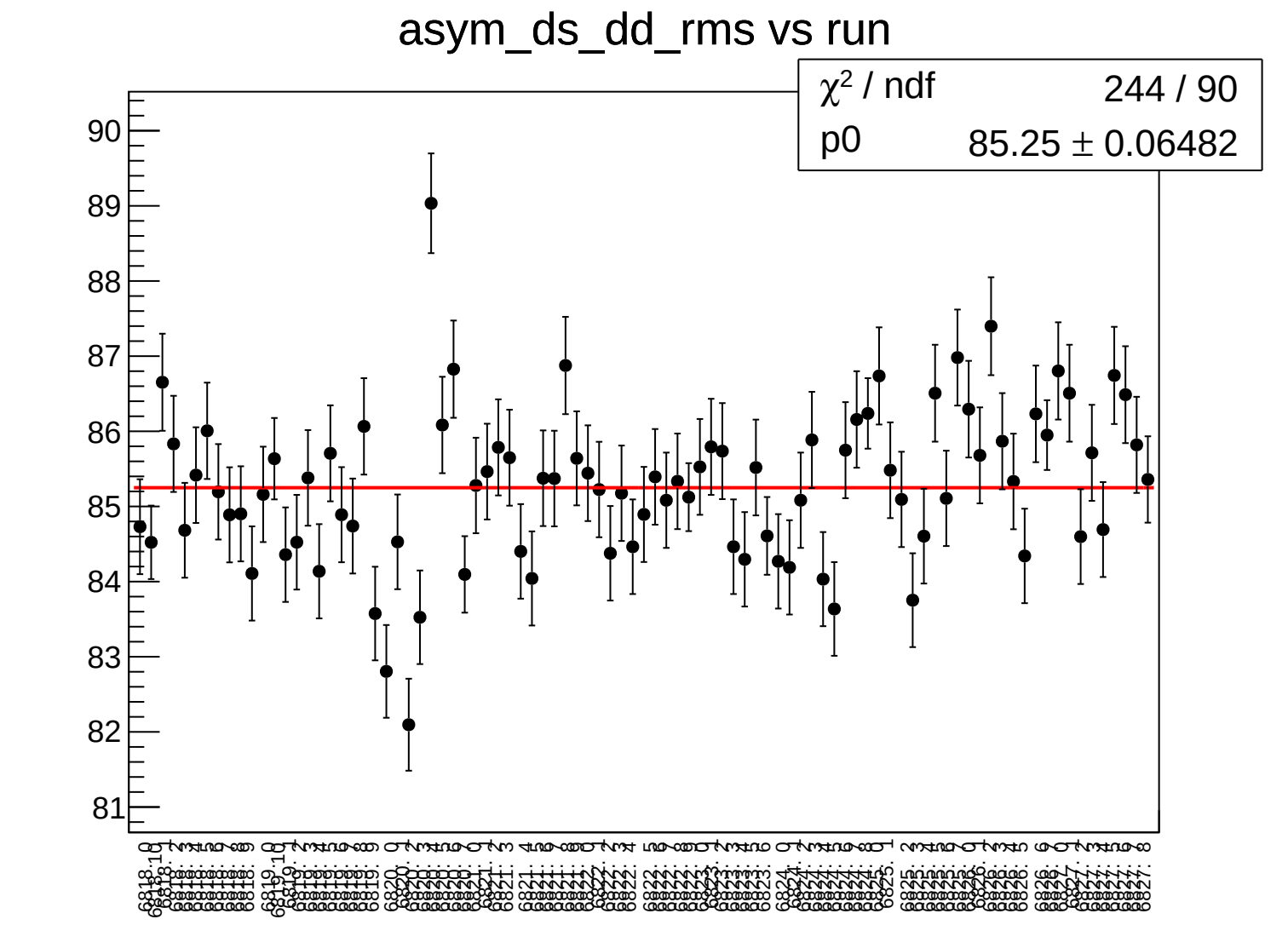

asym_ds_dd_correction_mean vs run
χ² / ndf 93.29 / 90
p0 −1.455 ± 1.654
pull
Entries 91
Mean 9.626
Std Dev 24.68

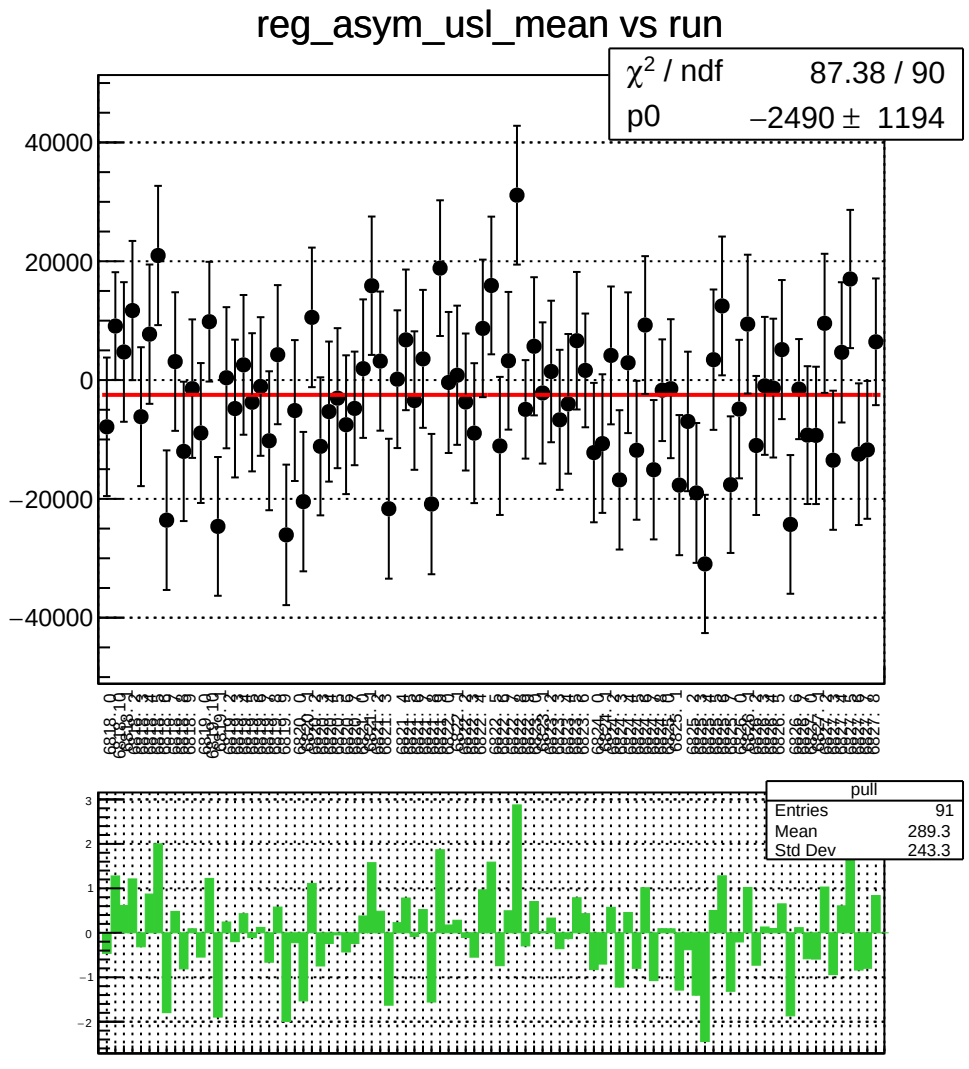

pull1D
Entries 91
Mean 0.03783
Std Dev 1.012

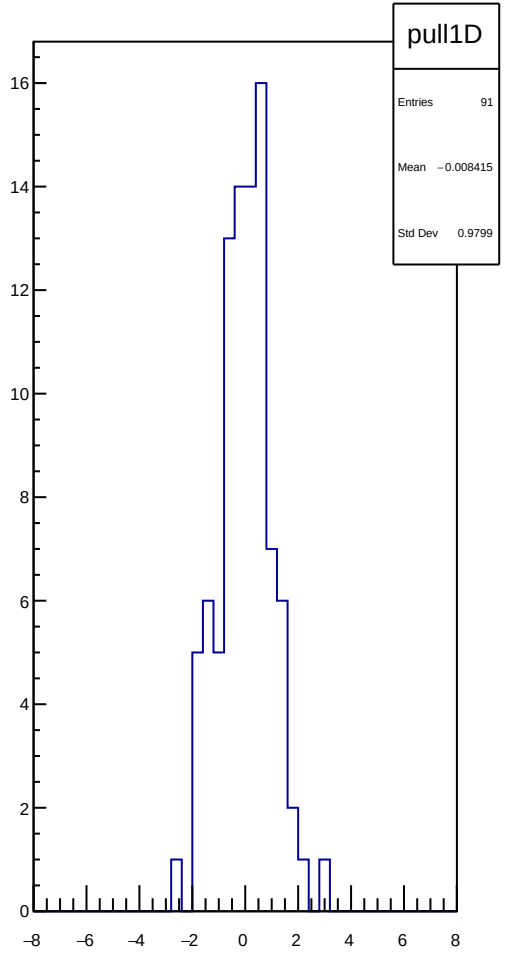

asym_ds_dd_correction_rms vs run
χ² / ndf 2.288e+05 / 90
p0 1.433 ± 0.00117
3.5
3
2.5
2
1.5
1
0.5

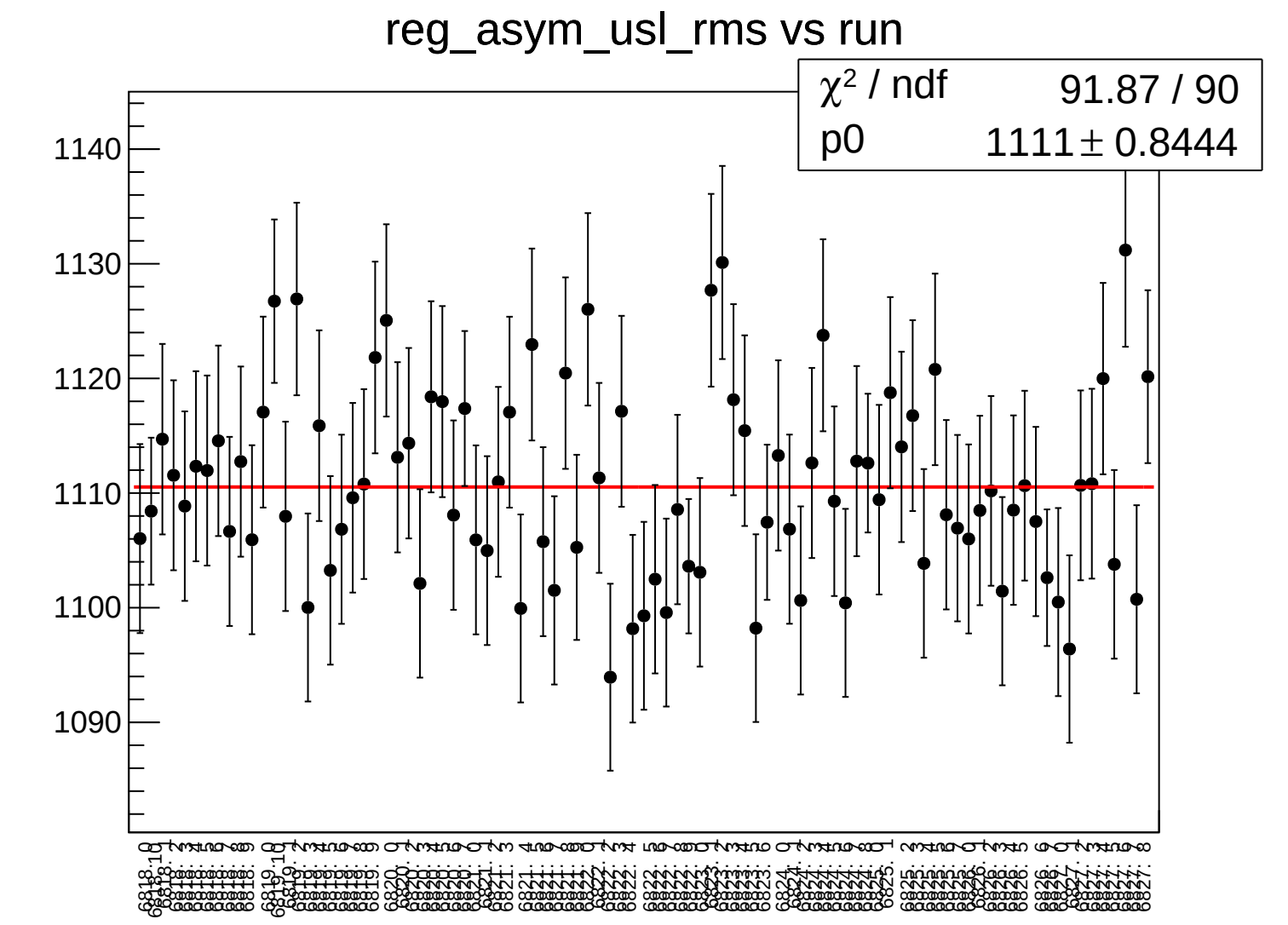

asym_ds_dd_mean vs run
χ² / ndf 113.3 / 90
p0 82.82 ± 91.67
pull
Entries 91
Mean −48.66
Std Dev 66.56

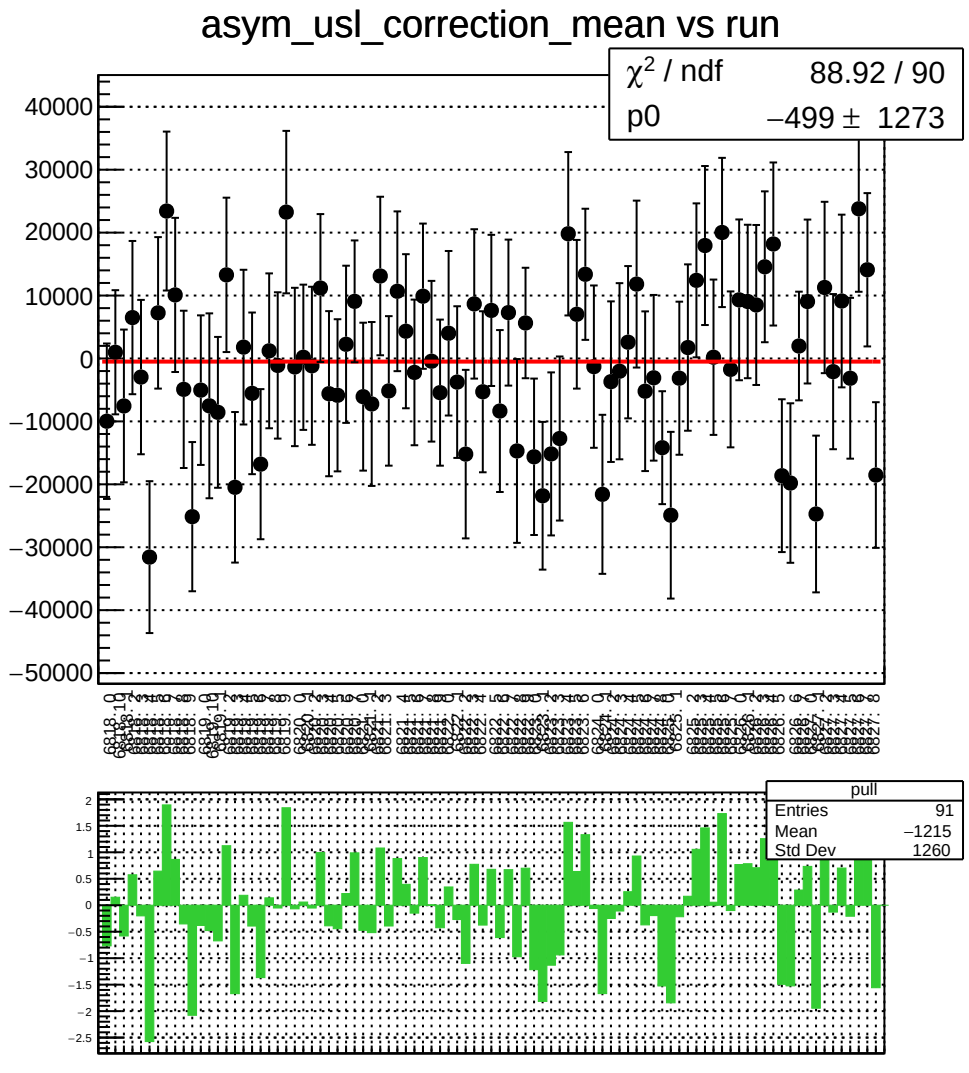

pull1D
Entries 91
Mean −0.006124
Std Dev 1.116

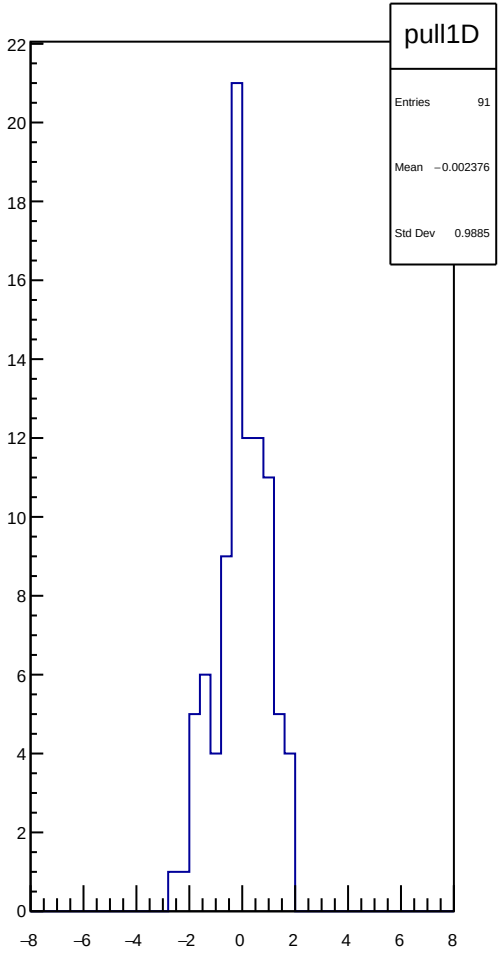

asym_ds_dd_rms vs run
χ² / ndf 244 / 90
p0 85.25 ± 0.06482
90
89
88
87
86
85
84
83
82
81

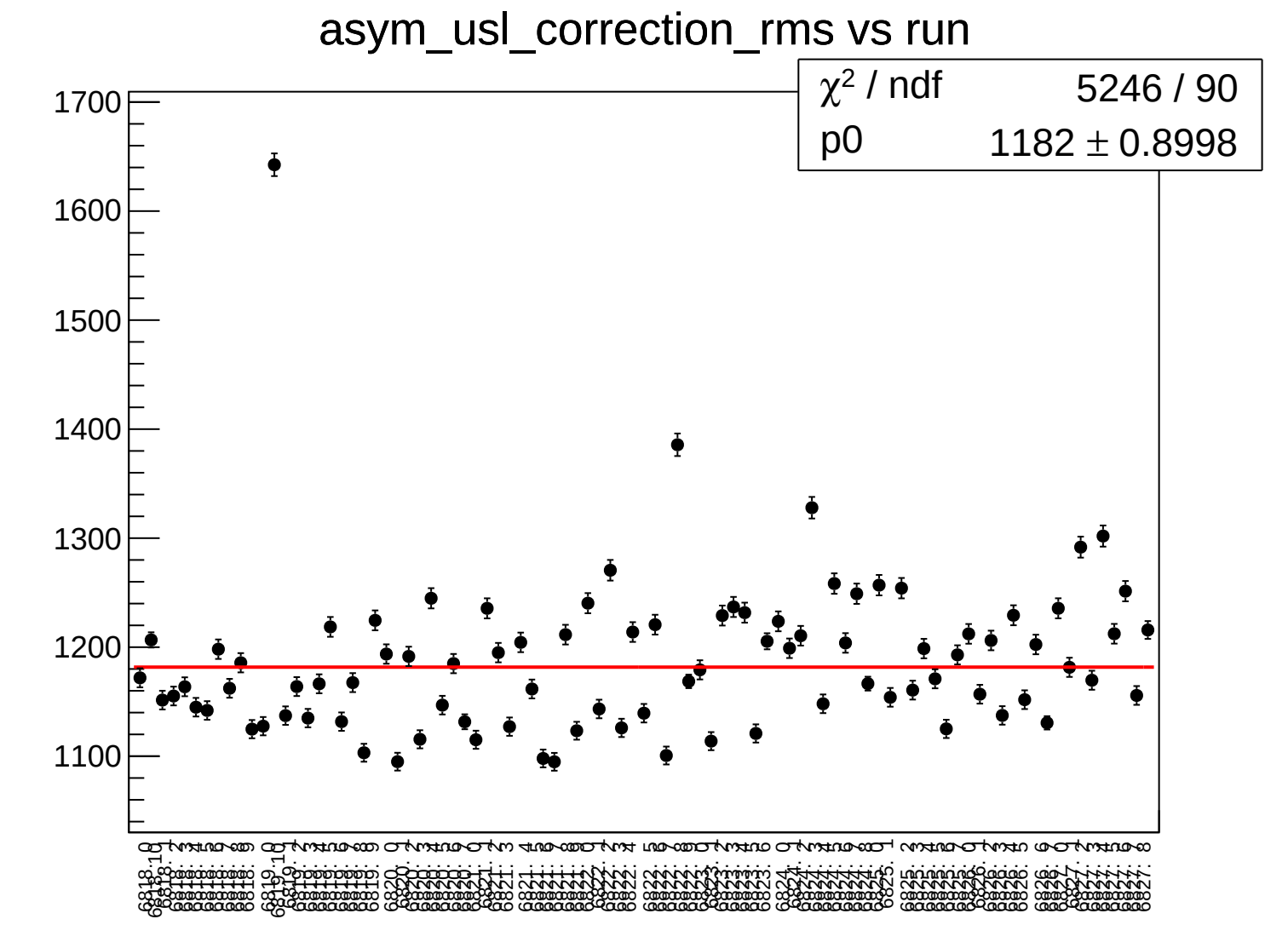

reg_asym_usl_mean vs run
χ² / ndf 87.38 / 90
p0 −2490 ± 1194
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 289.3
Std Dev 243.3
3
2
1
0
−1
−2

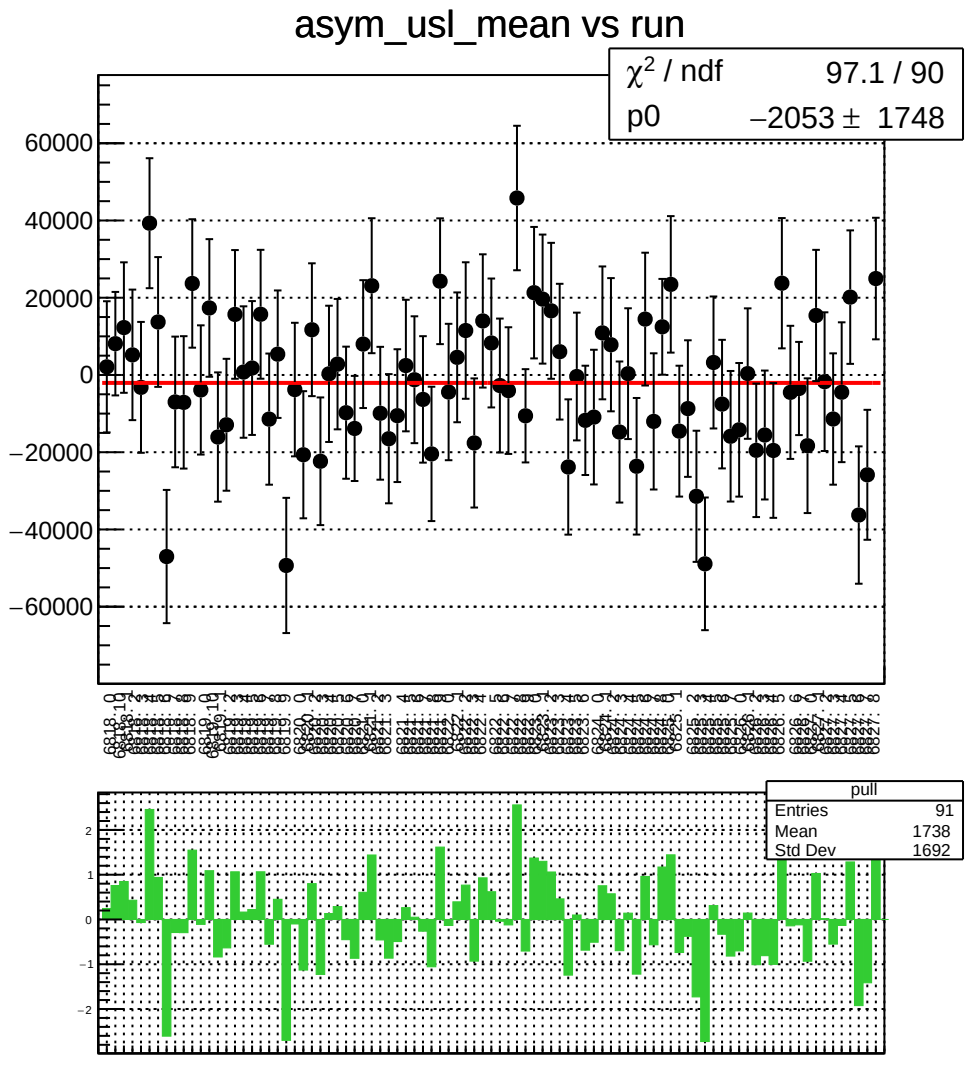

pull1D
Entries 91
Mean −0.008415
Std Dev 0.9799
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

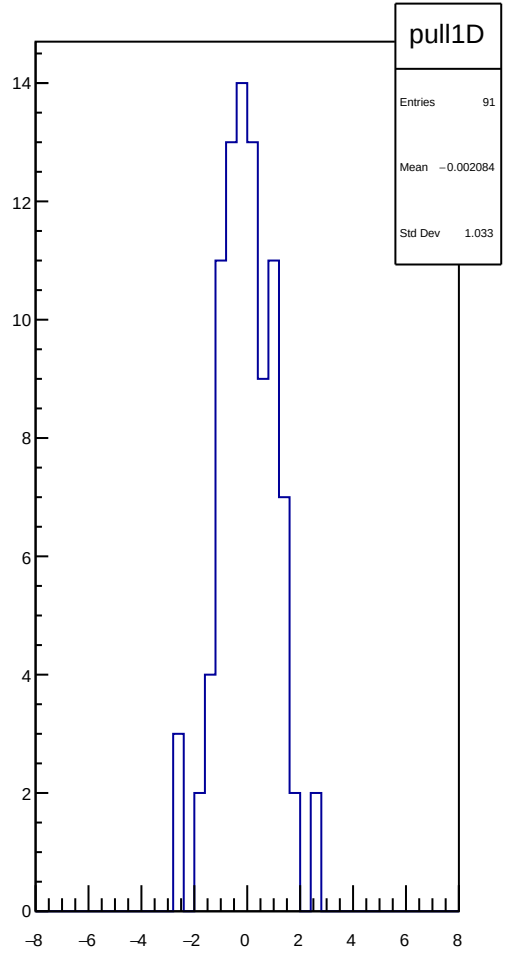

reg_asym_usl_rms vs run
χ² / ndf 91.87 / 90
p0 1111 ± 0.8444
1140
1130
1120
1110
1100
1090

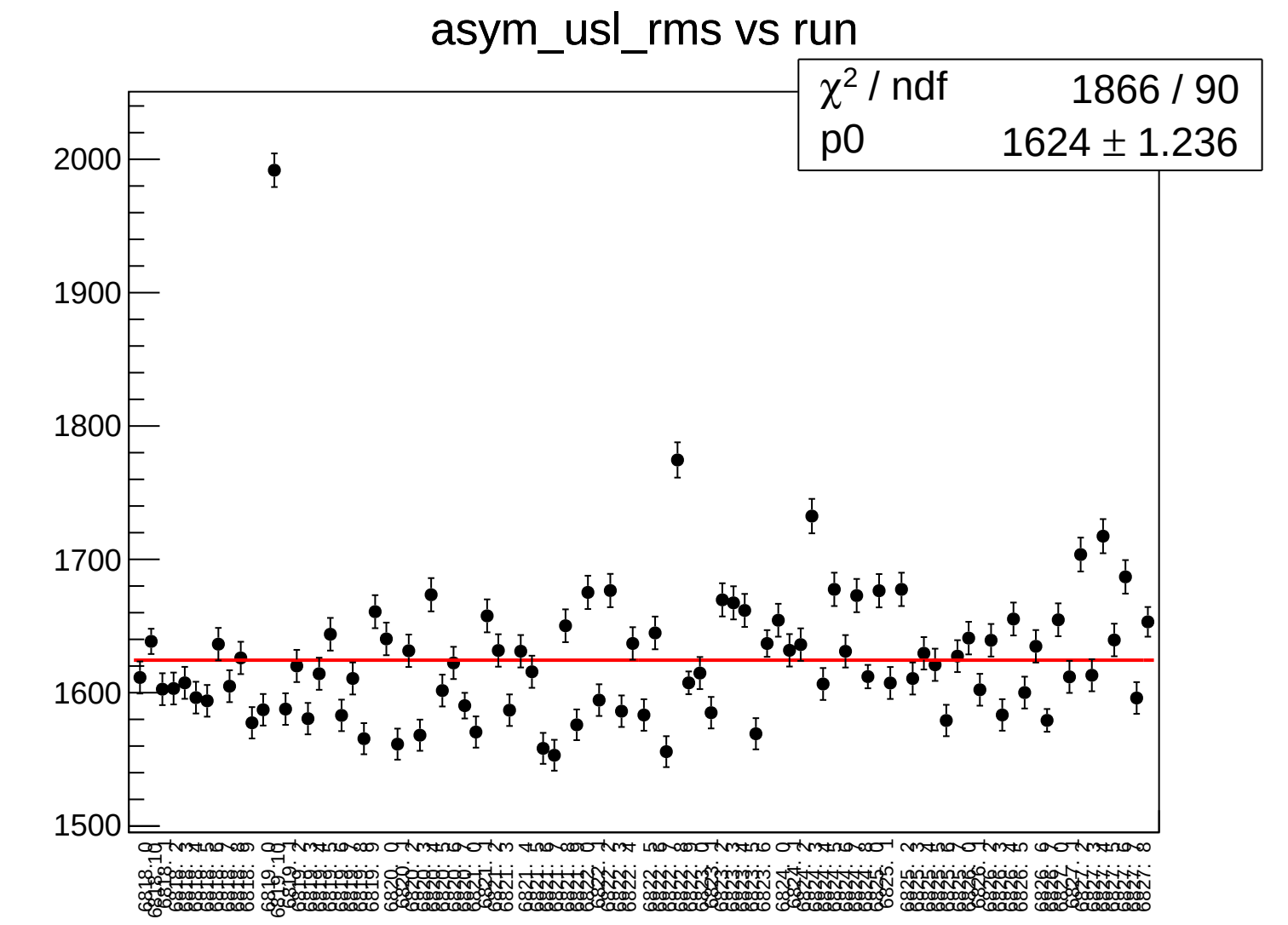

asym_usl_correction_mean vs run
χ² / ndf 88.92 / 90
p0 −499 ± 1273
pull
Entries 91
Mean −1215
Std Dev 1260

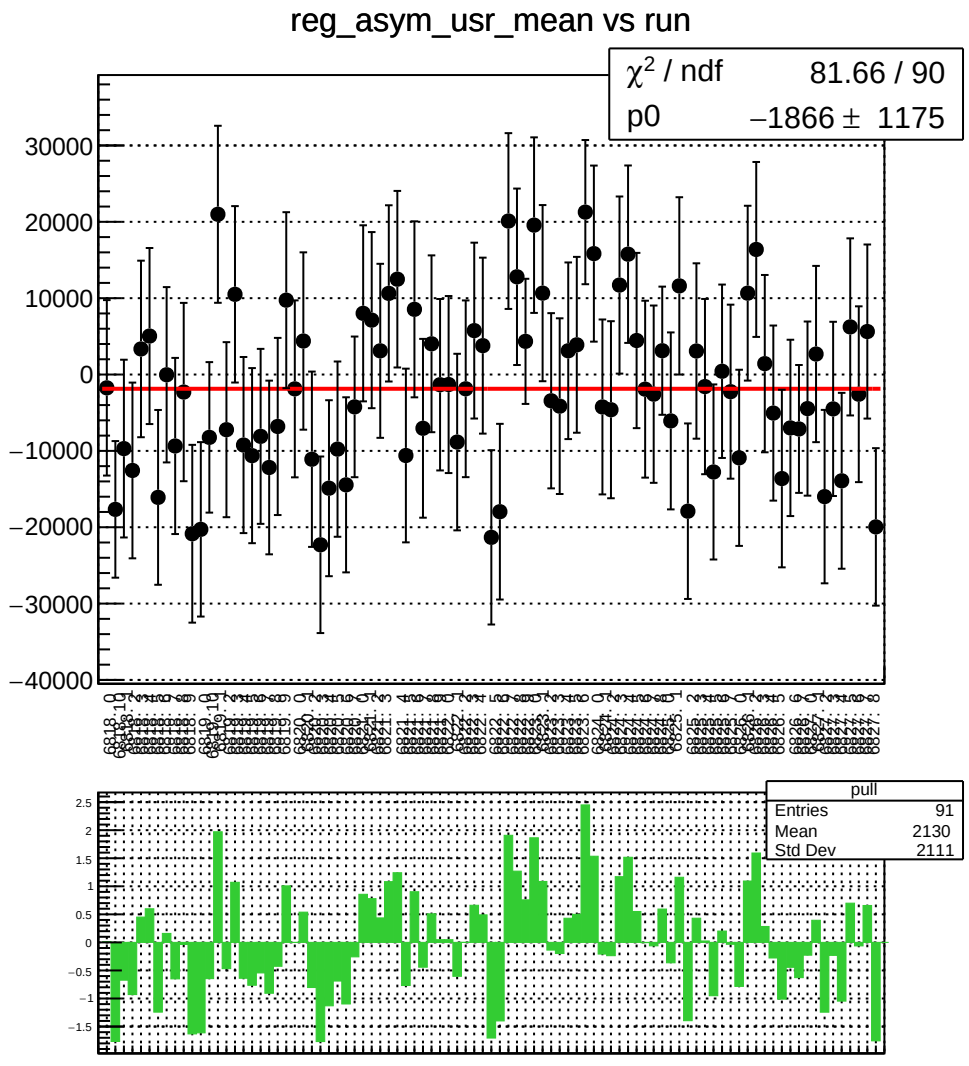

pull1D
Entries 91
Mean −0.002376
Std Dev 0.9885

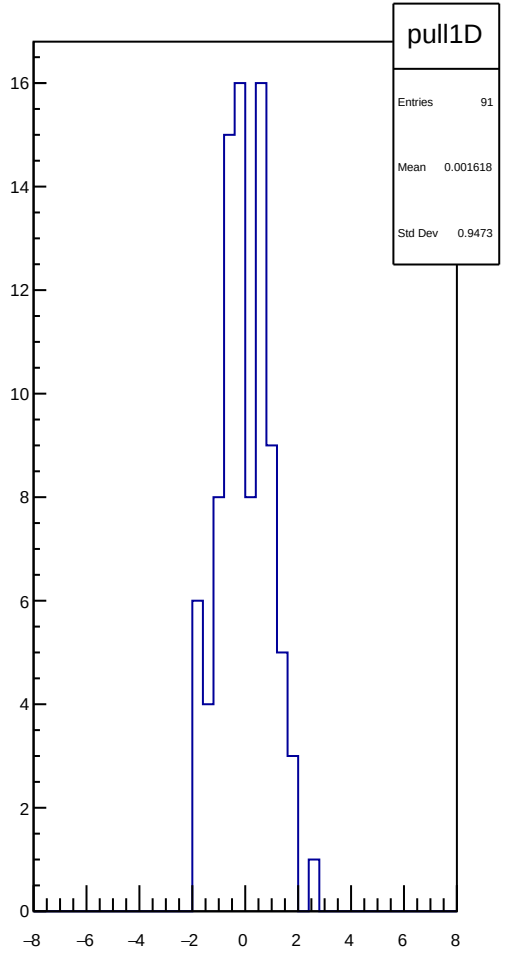

asym_usl_correction_rms vs run
χ² / ndf 5246 / 90
p0 1182 ± 0.8998
1700
1600
1500
1400
1300
1200
1100

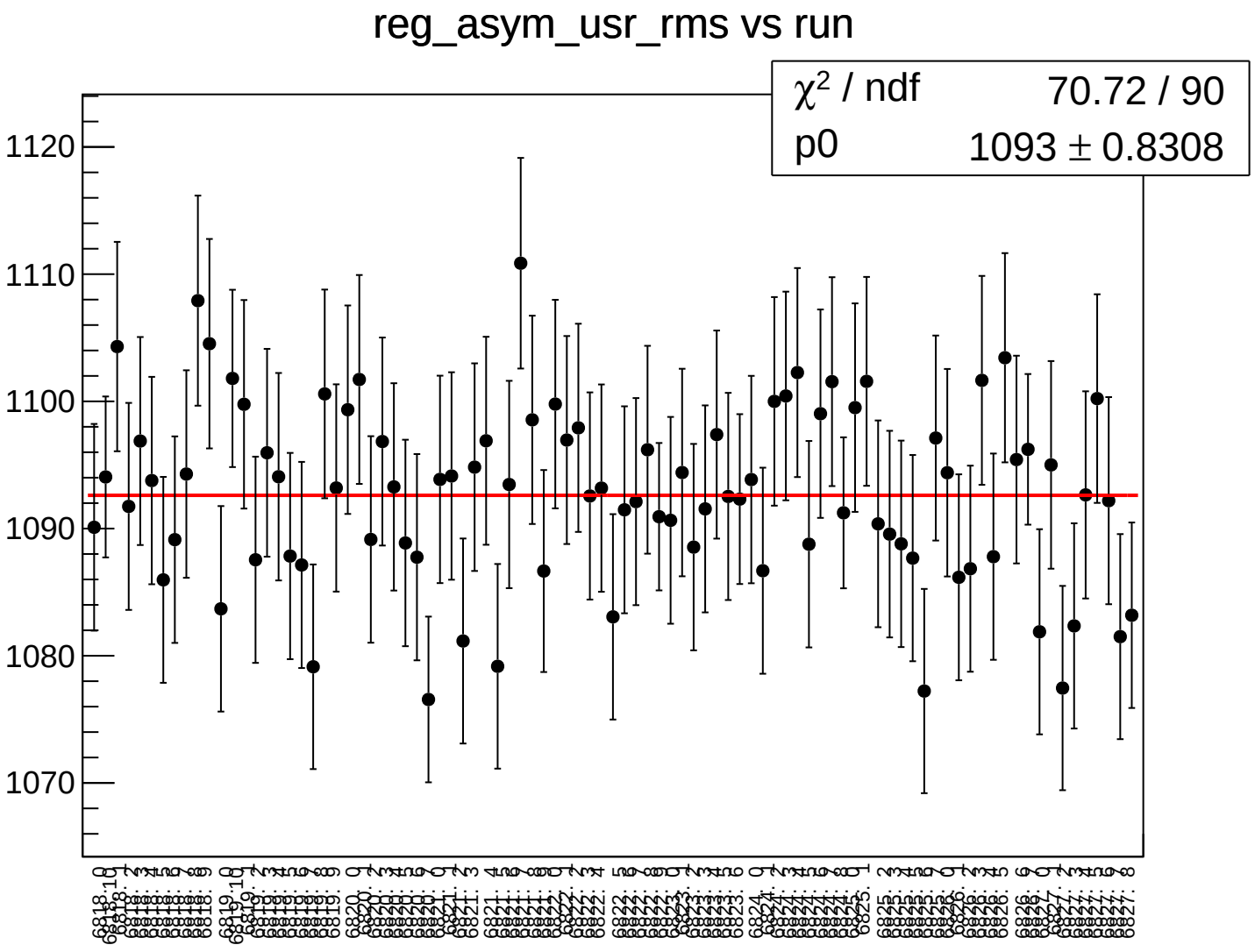

asym_usl_mean vs run
χ² / ndf 97.1 / 90
p0 −2053 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1738
Std Dev 1692
2
1
0
−1
−2

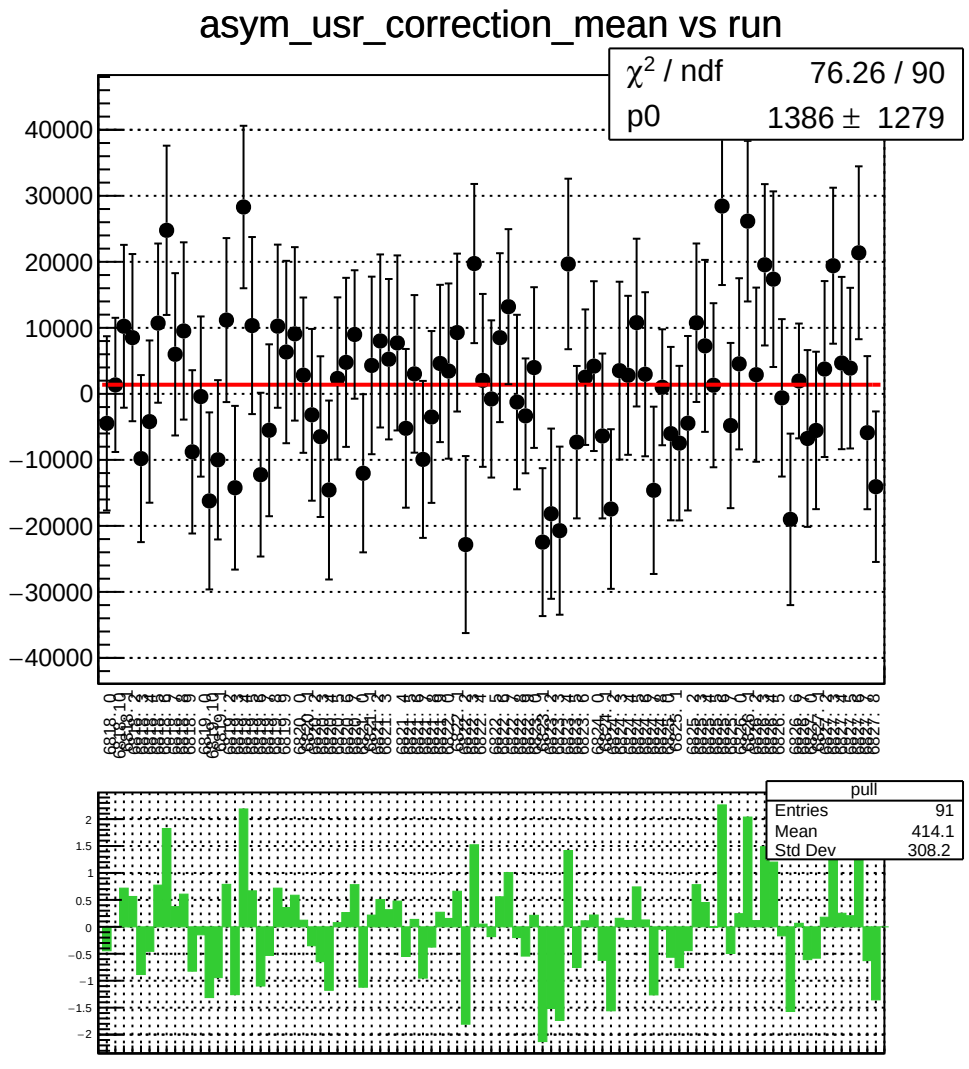

pull1D
Entries 91
Mean −0.002084
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

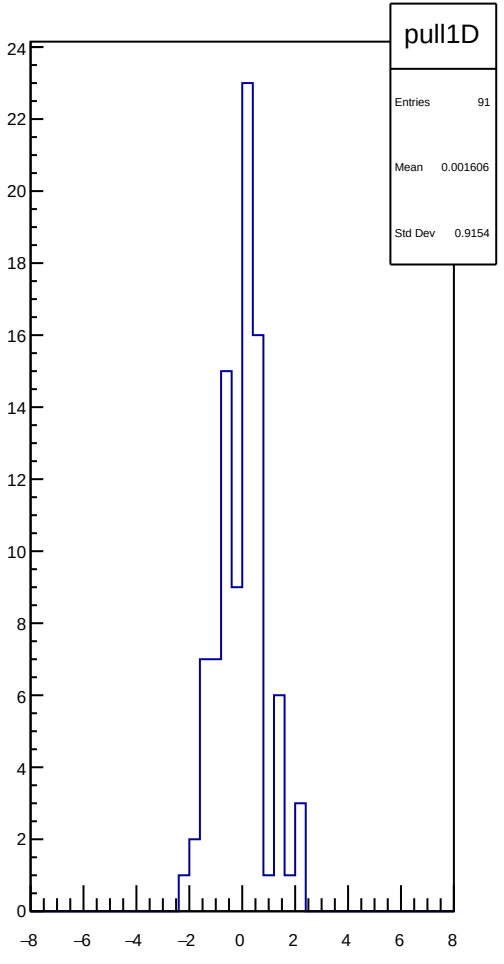

asym_usl_rms vs run
χ² / ndf 1866 / 90
p0 1624 ± 1.236
2000
1900
1800
1700
1600
1500

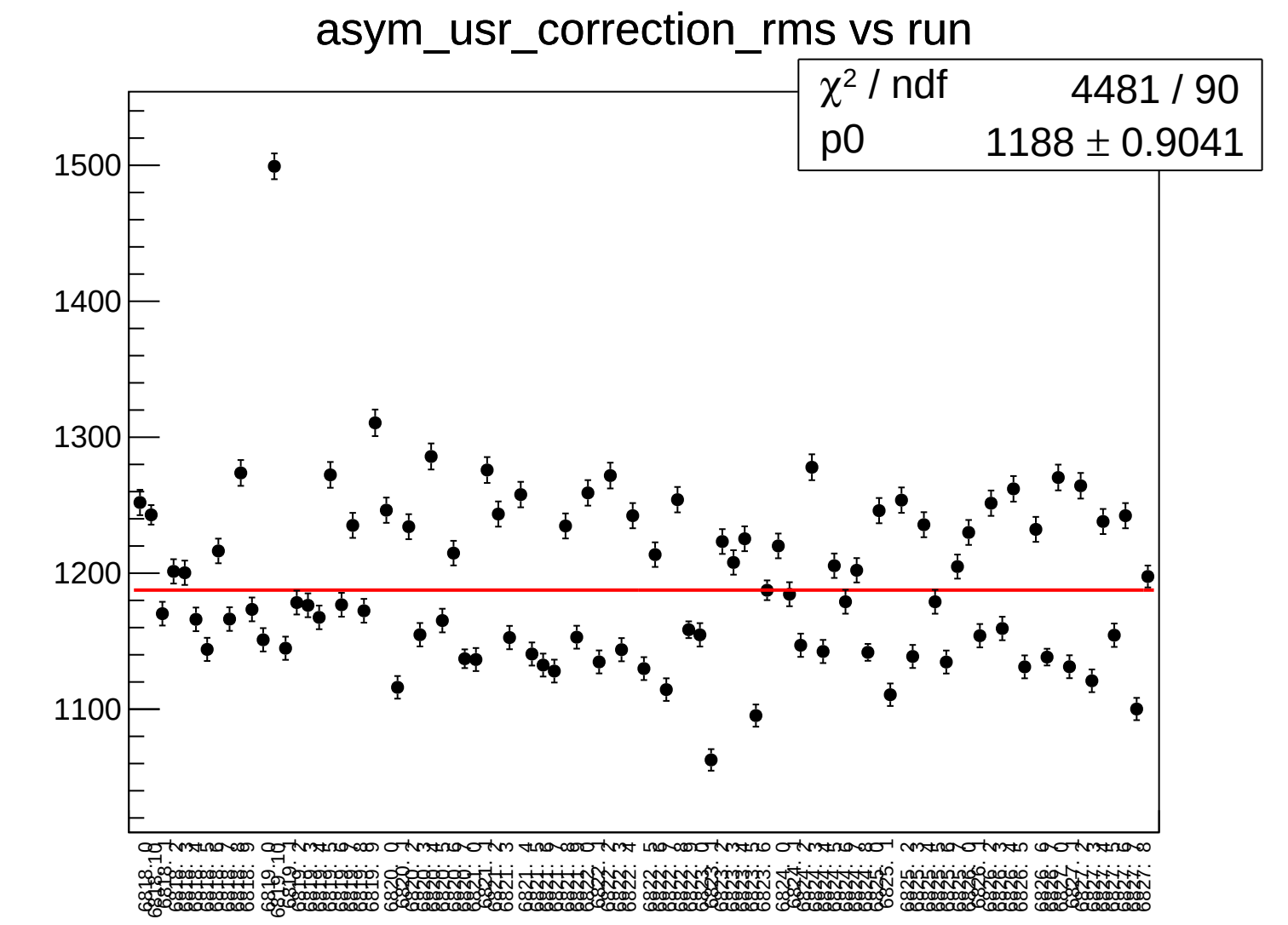

reg_asym_usr_mean vs run
χ² / ndf 81.66 / 90
p0 −1866 ± 1175
pull
Entries 91
Mean 2130
Std Dev 2111

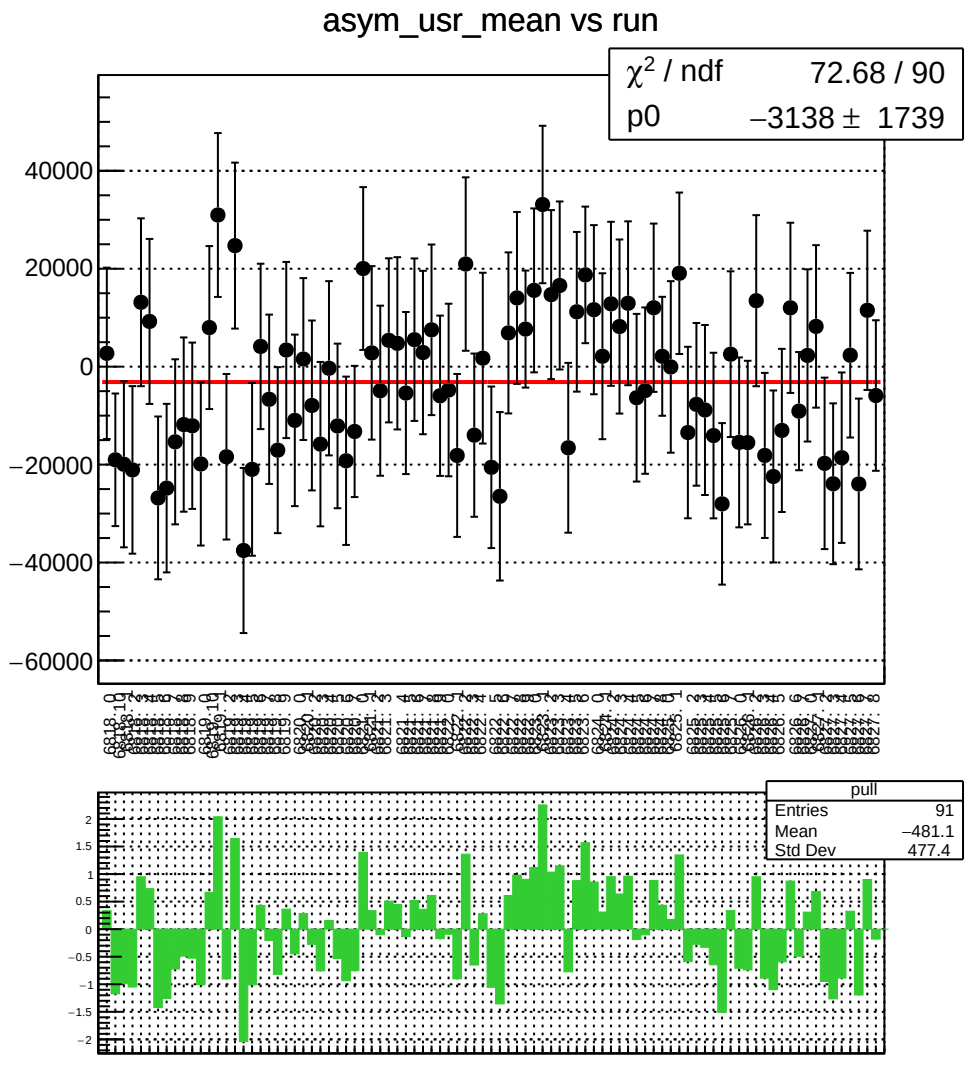

pull1D
Entries 91
Mean 0.001618
Std Dev 0.9473

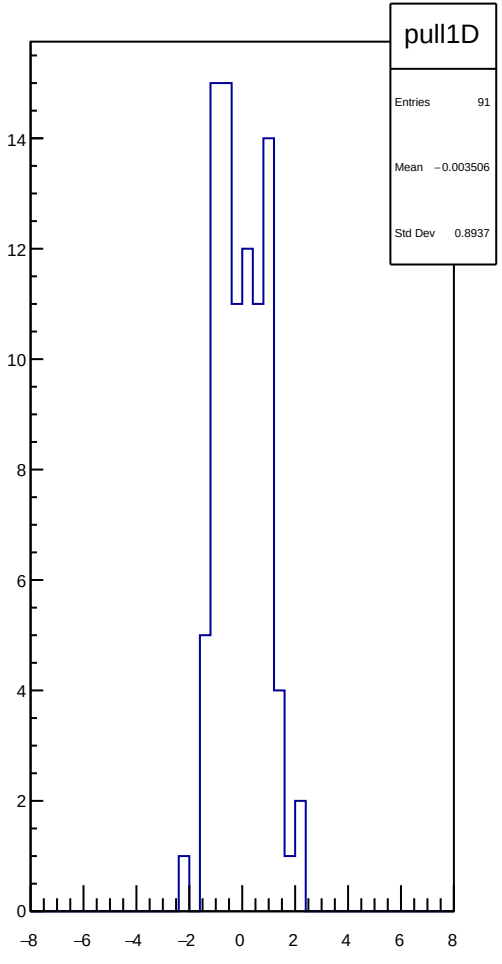

reg_asym_usr_rms vs run
χ² / ndf 70.72 / 90
p0 1093 ± 0.8308
1120
1110
1100
1090
1080
1070

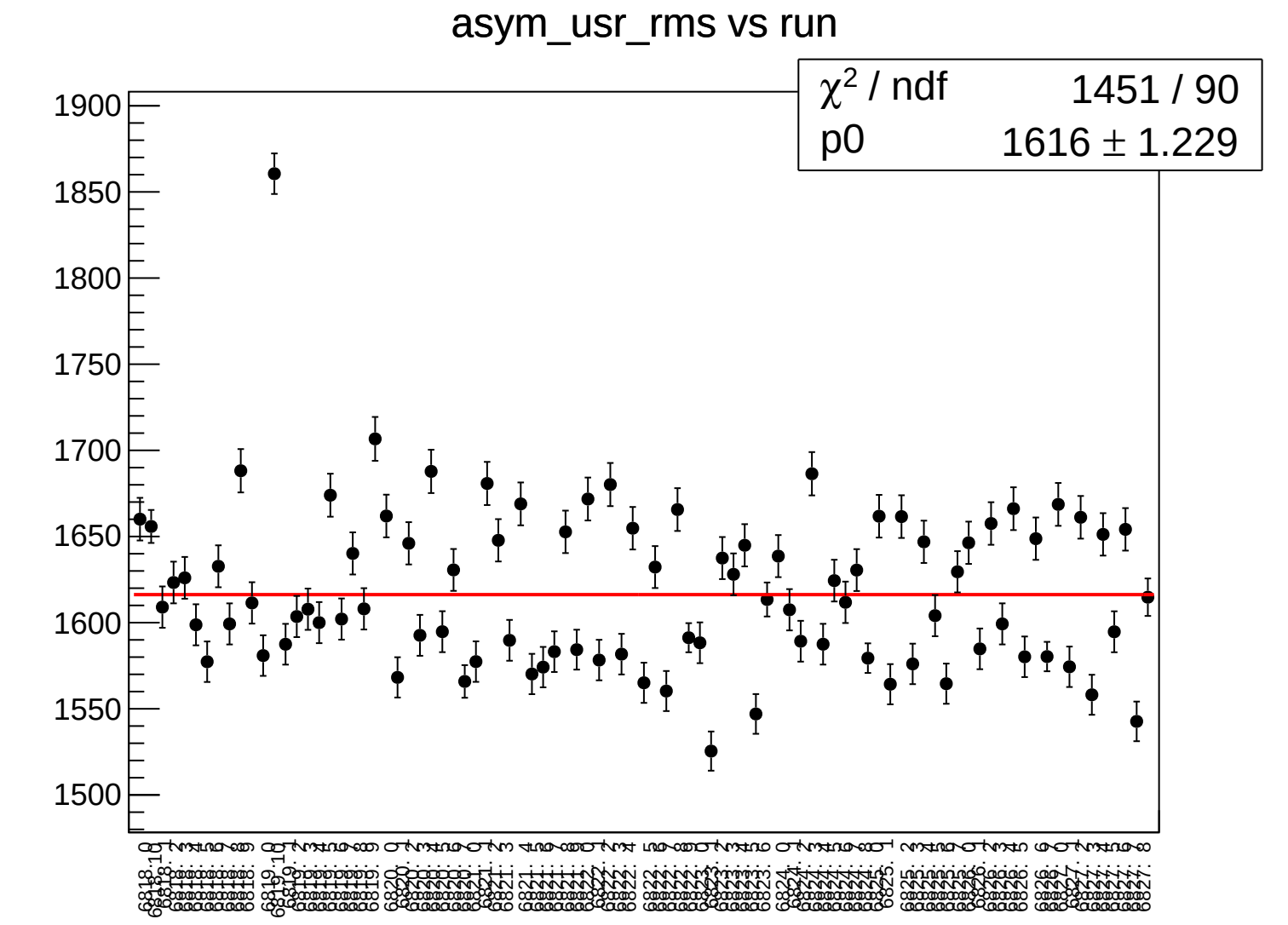

asym_usr_correction_mean vs run
χ² / ndf 76.26 / 90
p0 1386 ± 1279
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 414.1
Std Dev 308.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

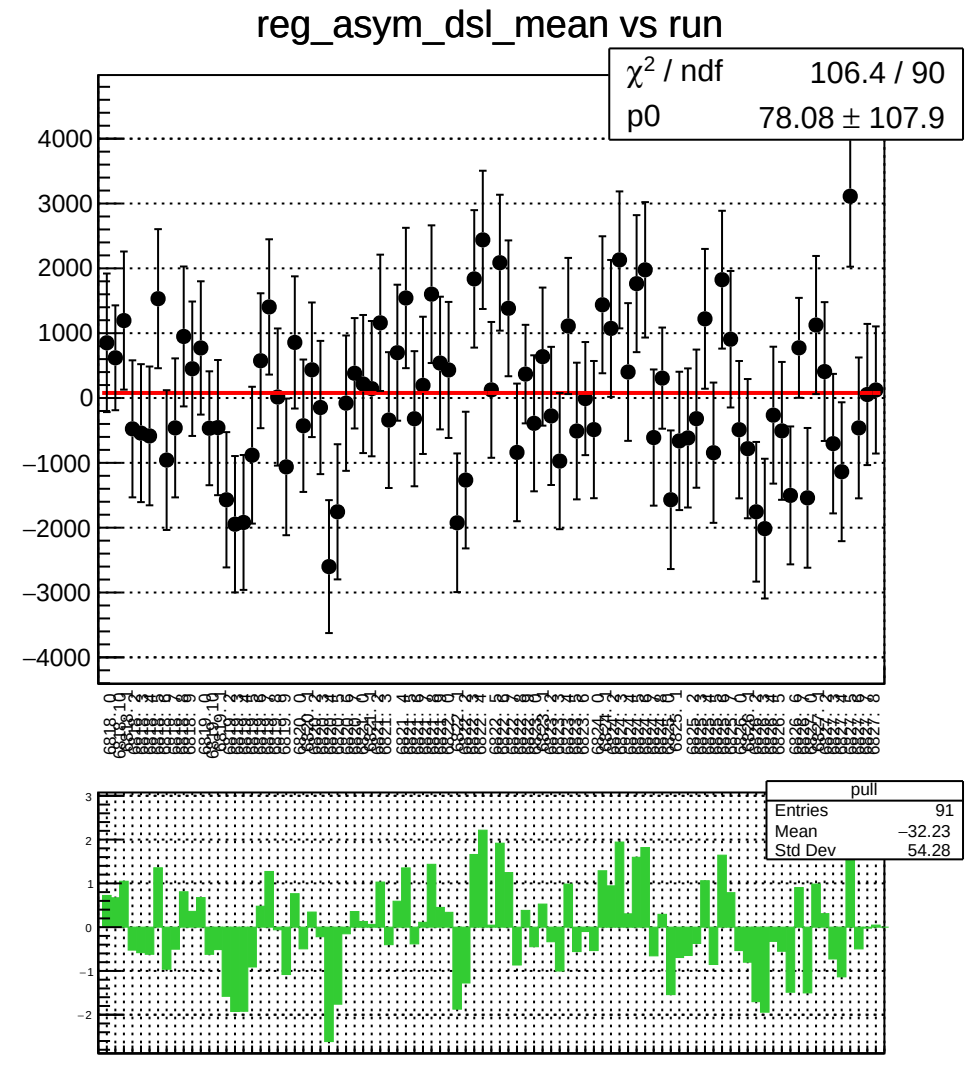

pull1D
Entries 91
Mean 0.001606
Std Dev 0.9154
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

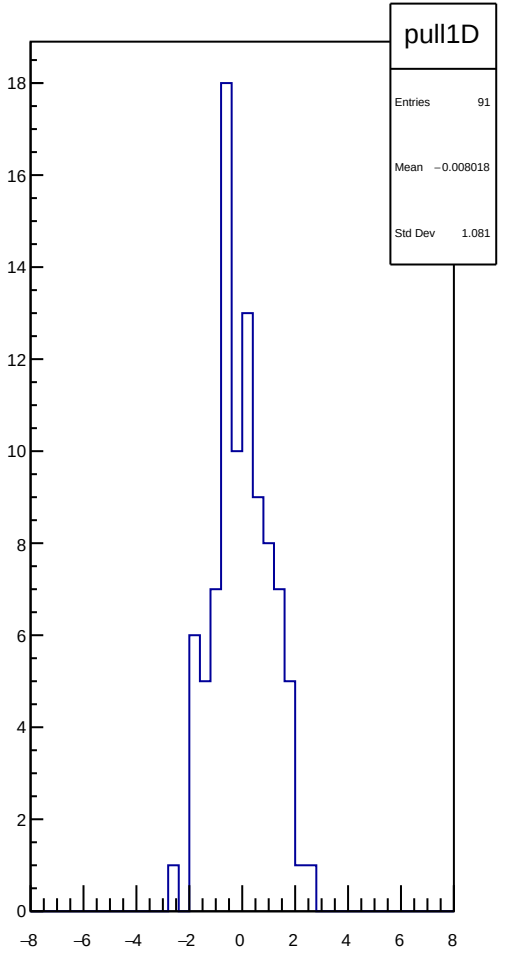

asym_usr_correction_rms vs run
χ² / ndf 4481 / 90
p0 1188 ± 0.9041
1500
1400
1300
1200
1100

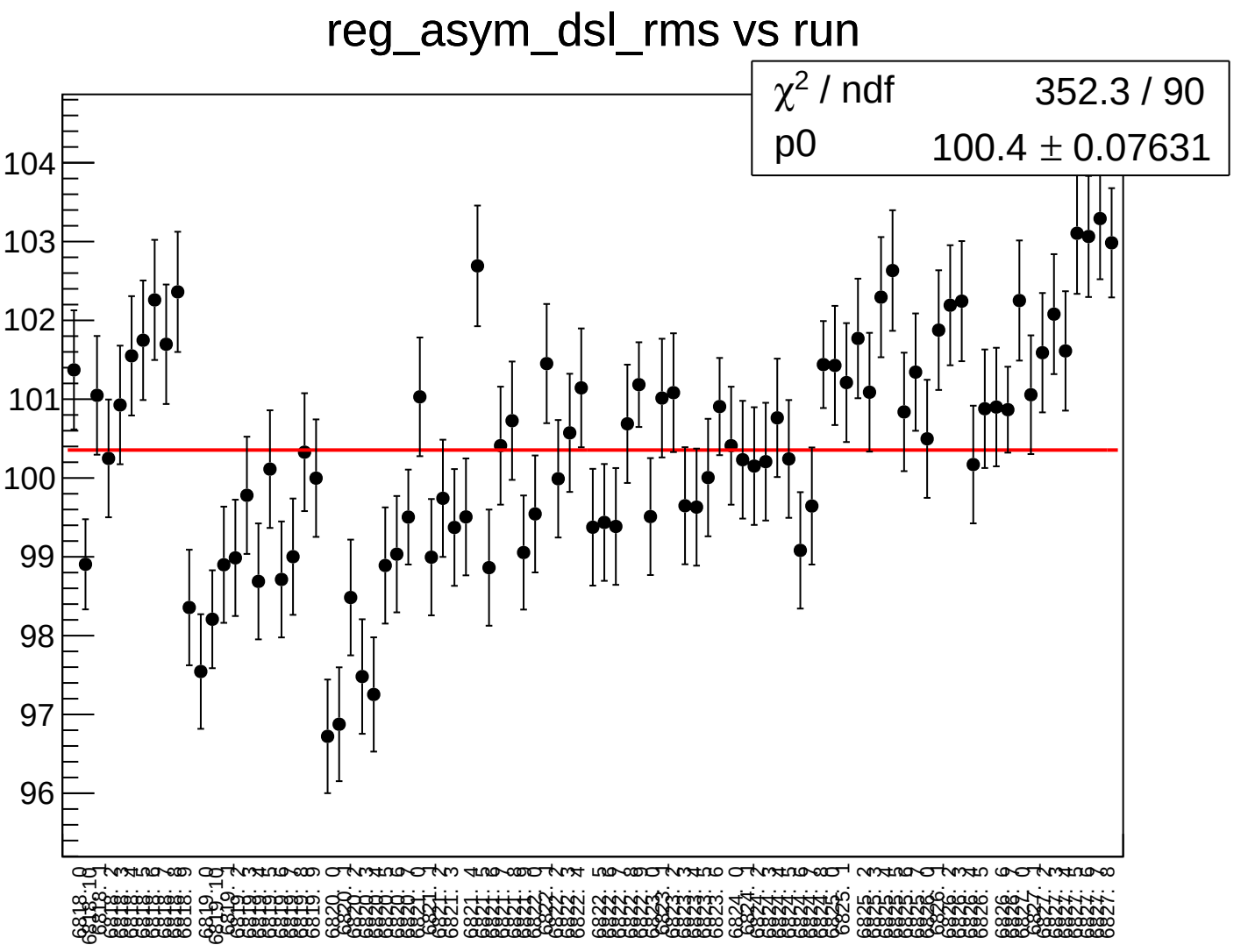

asym_usr_mean vs run
χ² / ndf 72.68 / 90
p0 −3138 ± 1739
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −481.1
Std Dev 477.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

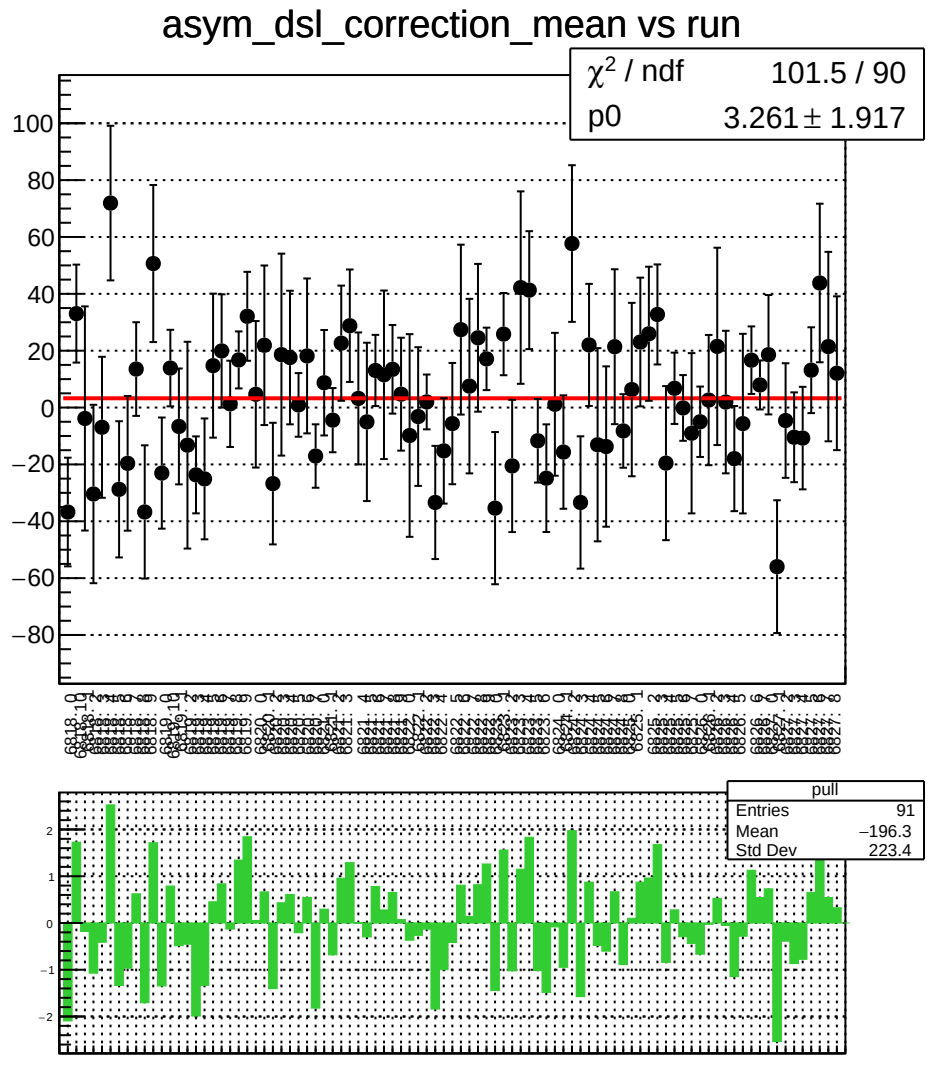

pull1D
Entries 91
Mean −0.003506
Std Dev 0.8937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

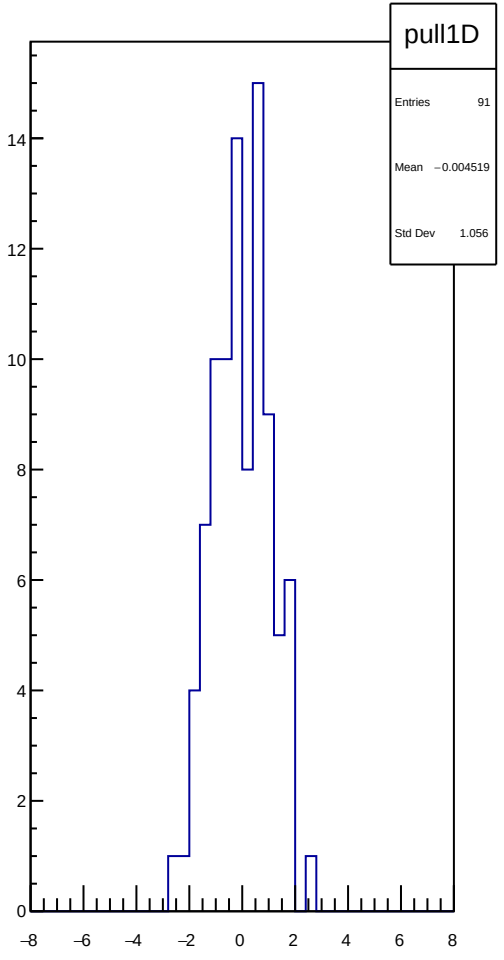

asym_usr_rms vs run
χ² / ndf 1451 / 90
p0 1616 ± 1.229
1900
1850
1800
1750
1700
1650
1600
1550
1500

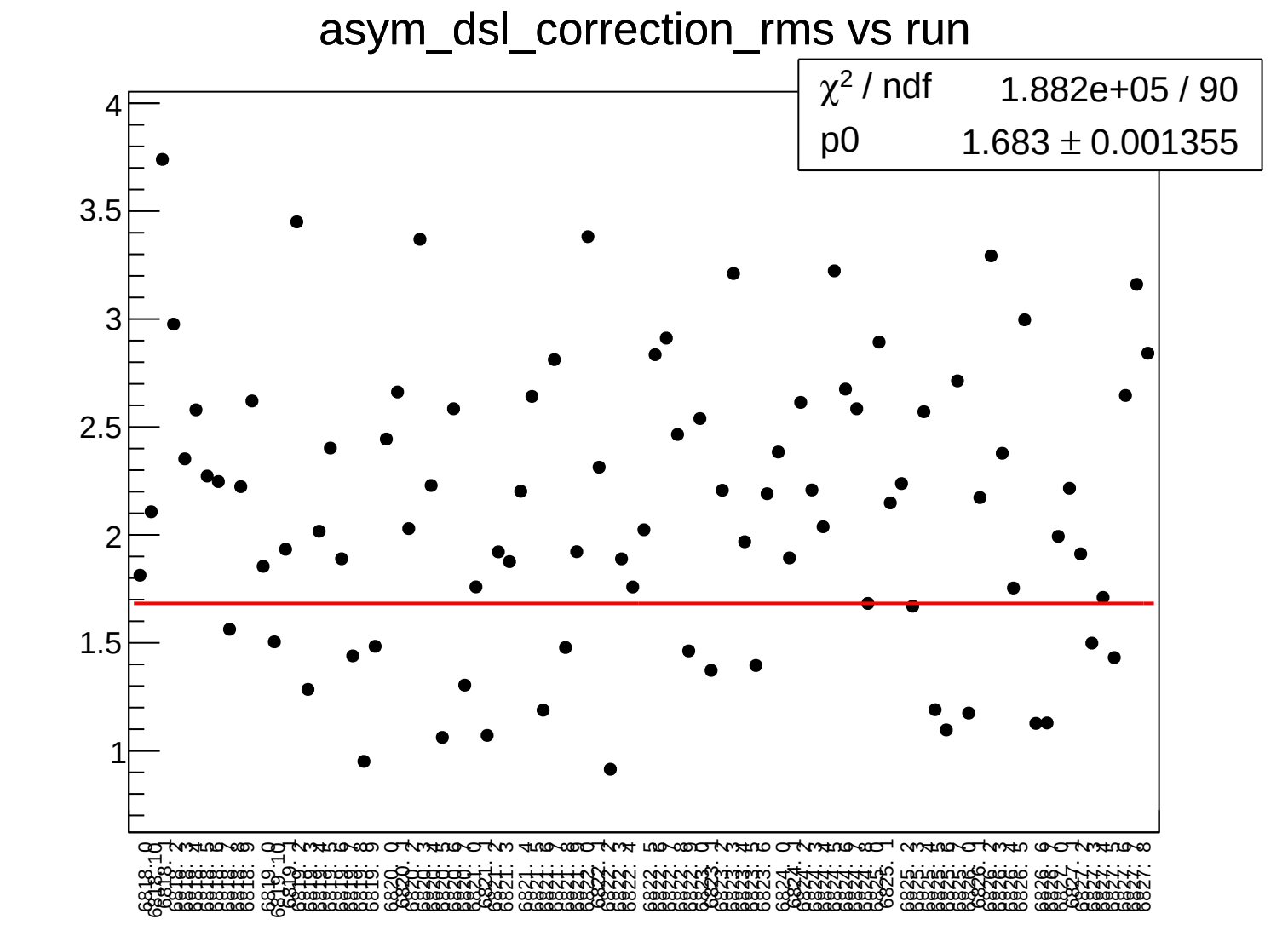

reg_asym_dsl_mean vs run
χ² / ndf 106.4 / 90
p0 78.08 ± 107.9
pull
Entries 91
Mean −32.23
Std Dev 54.28

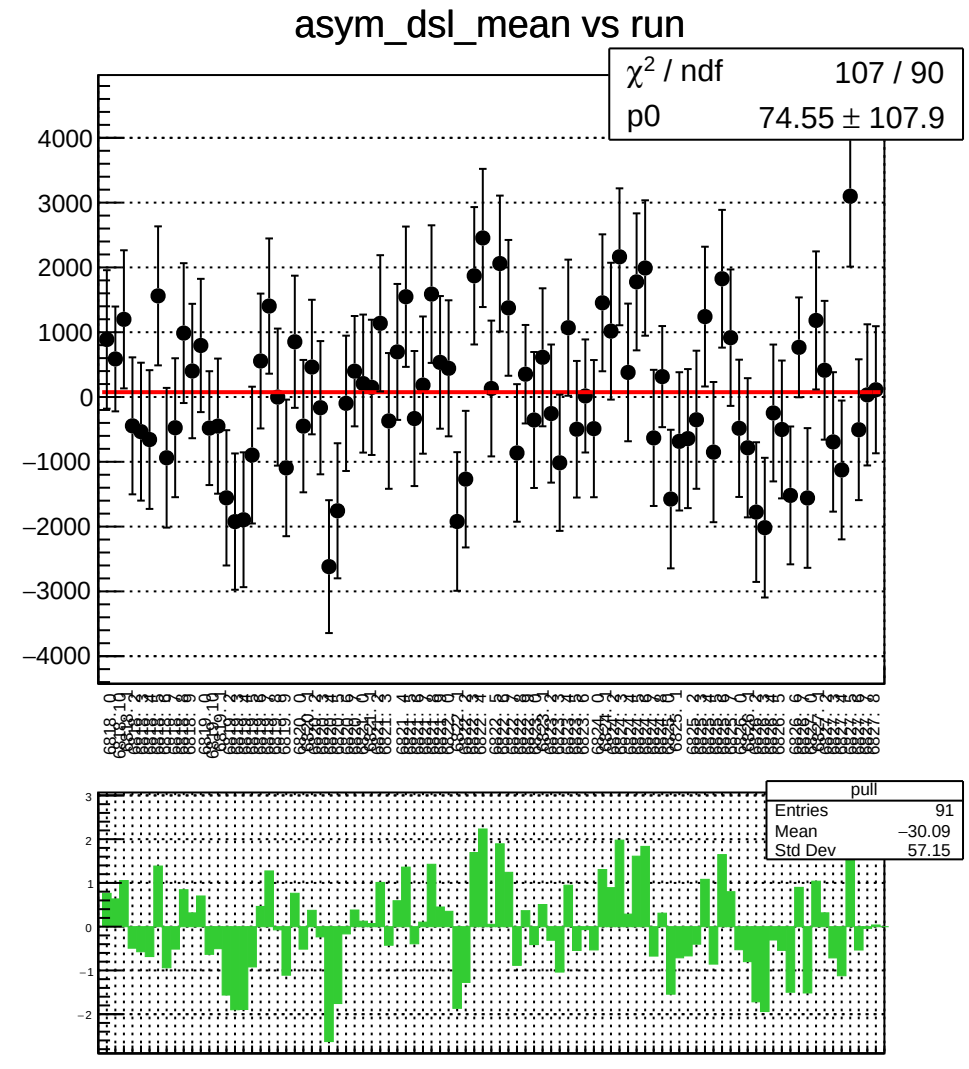

pull1D
Entries 91
Mean −0.008018
Std Dev 1.081

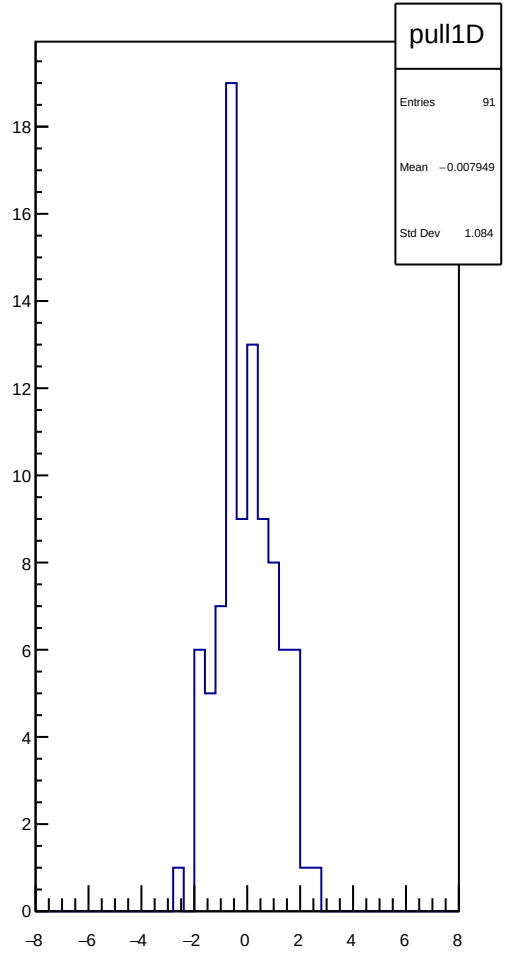

reg_asym_dsl_rms vs run
χ^2 / ndf 352.3 / 90
p0 100.4 ± 0.07631
104
103
102
101
100
99
98
97
96

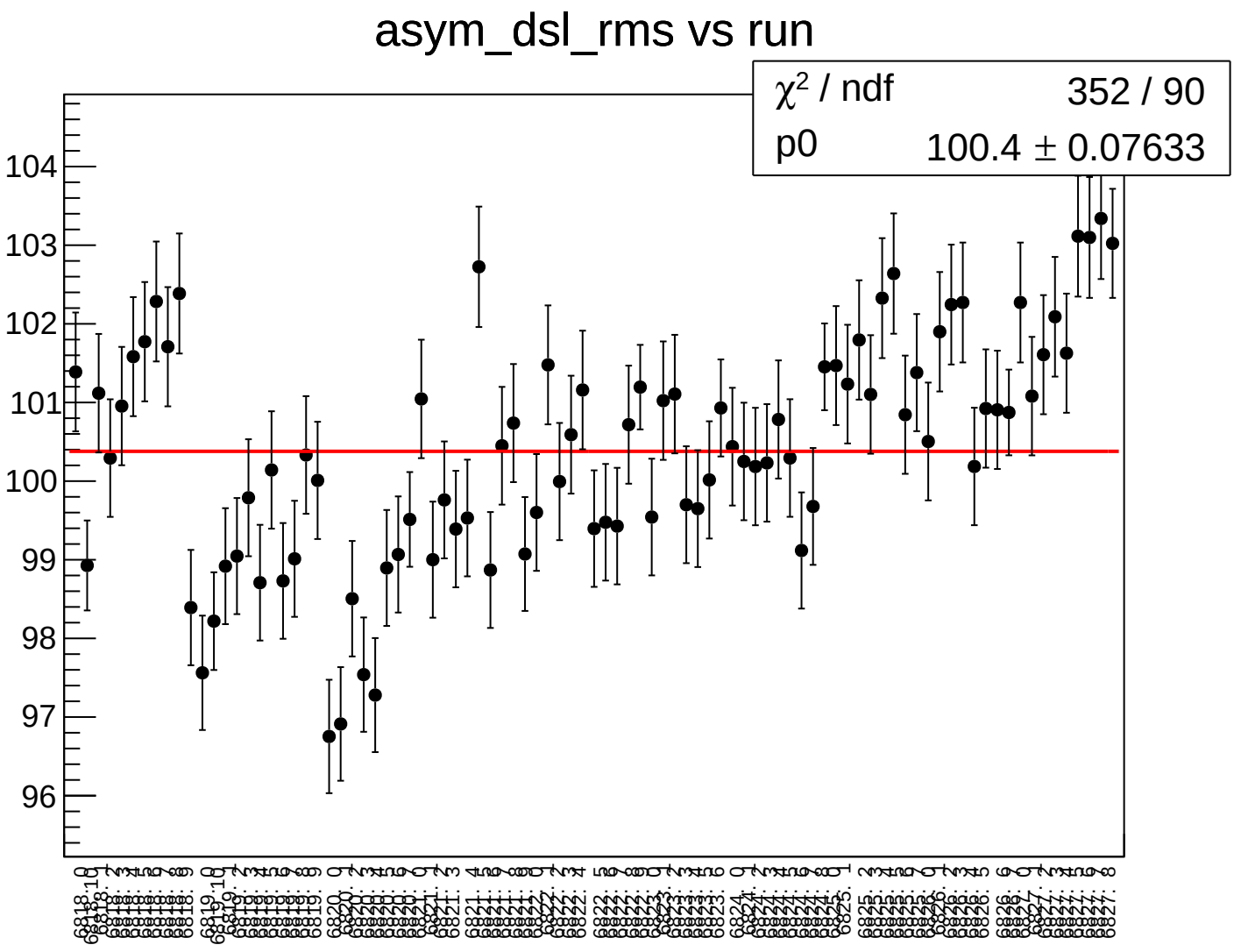

asym_dsl_correction_mean vs run
χ² / ndf 101.5 / 90
p0 3.261 ± 1.917
pull
Entries 91
Mean −196.3
Std Dev 223.4

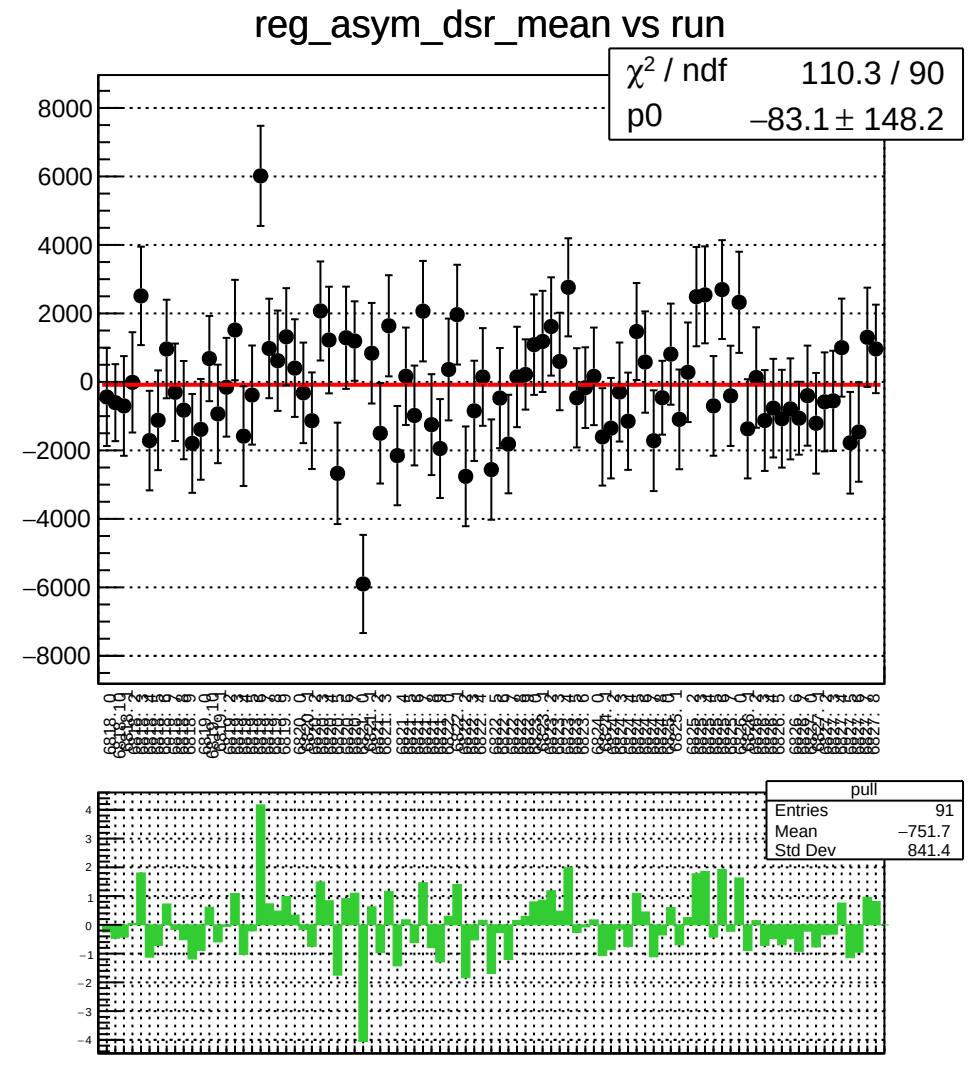

pull1D
Entries 91
Mean −0.004519
Std Dev 1.056

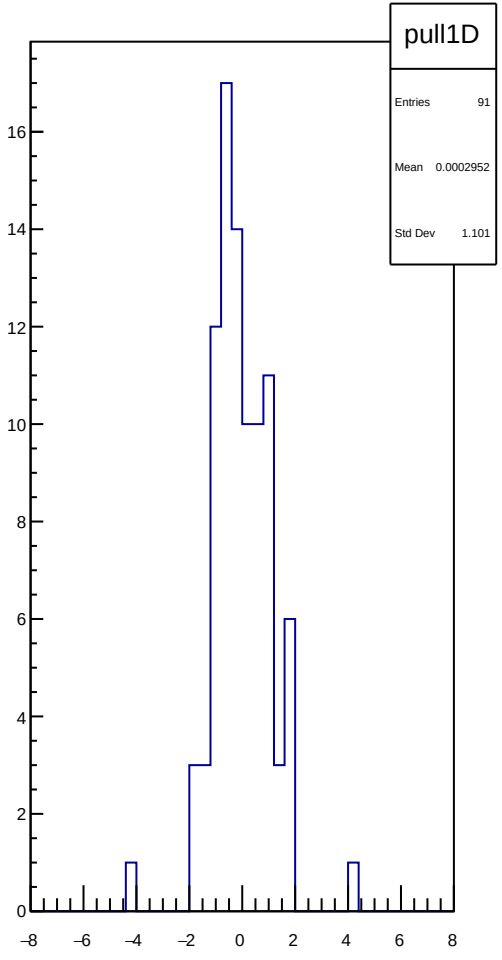

asym_dsl_correction_rms vs run
χ^2 / ndf 1.882e+05 / 90
p0 1.683 ± 0.001355
4
3.5
3
2.5
2
1.5
1

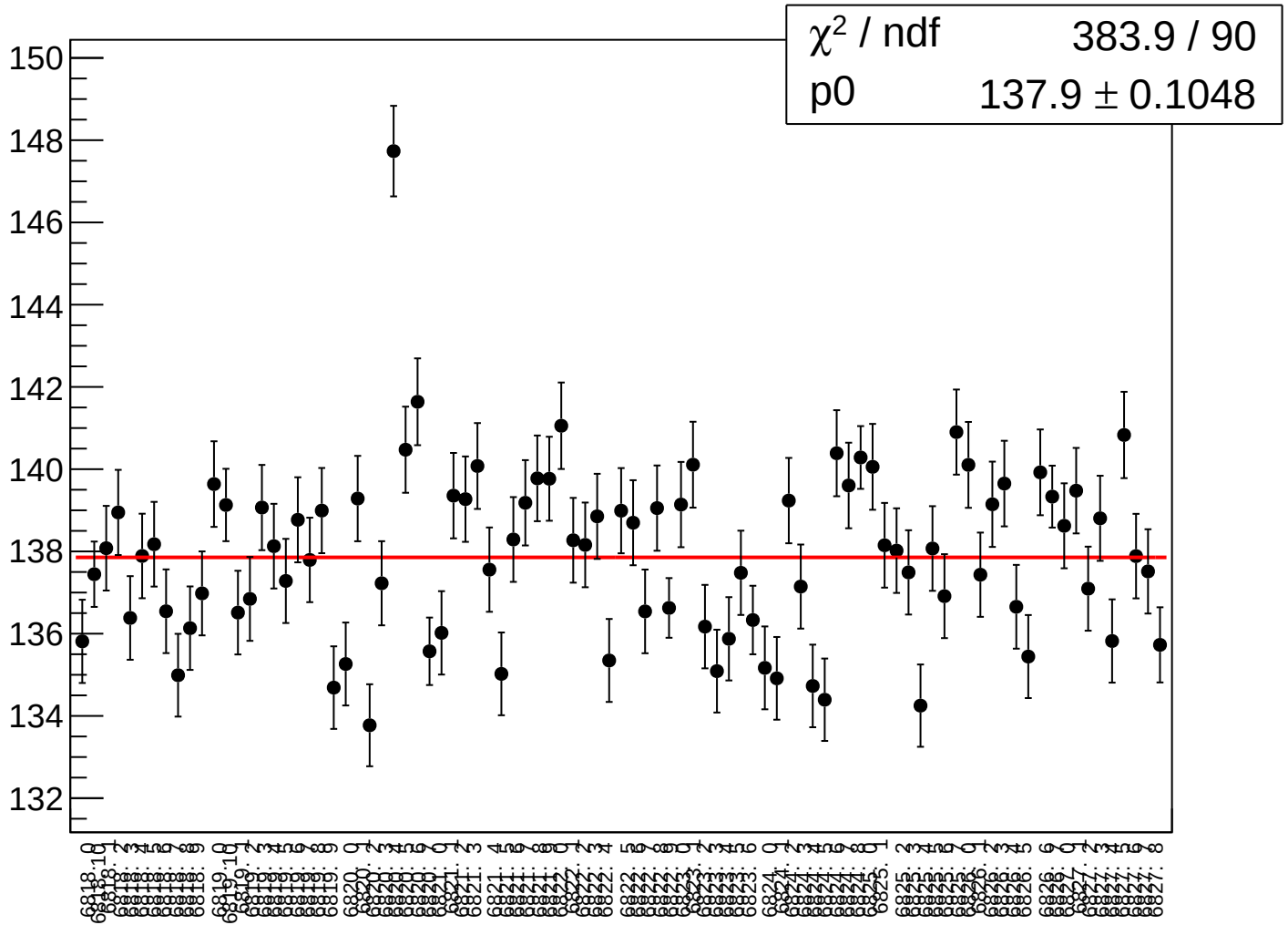

asym_dsl_mean vs run
χ² / ndf 107 / 90
p0 74.55 ± 107.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean −30.09
Std Dev 57.15
3
2
1
0
−1
−2

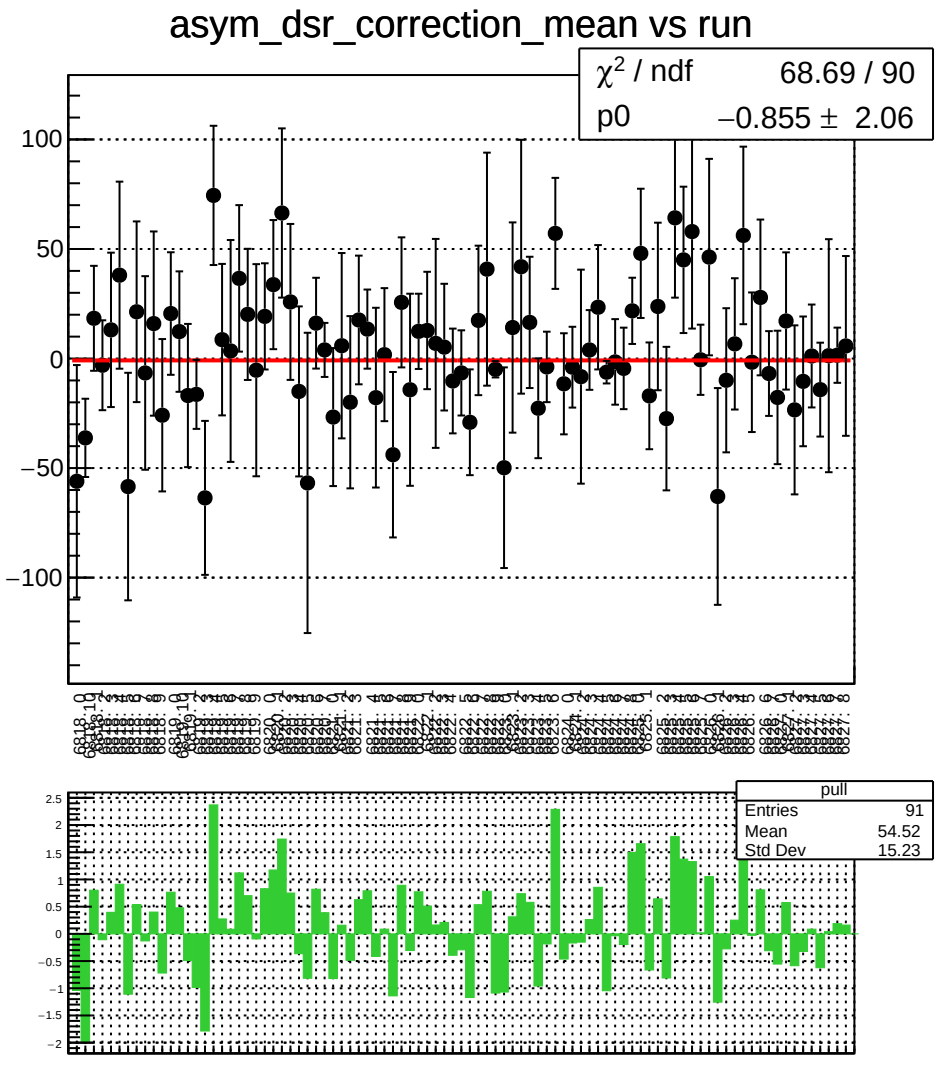

pull1D
Entries 91
Mean −0.007949
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

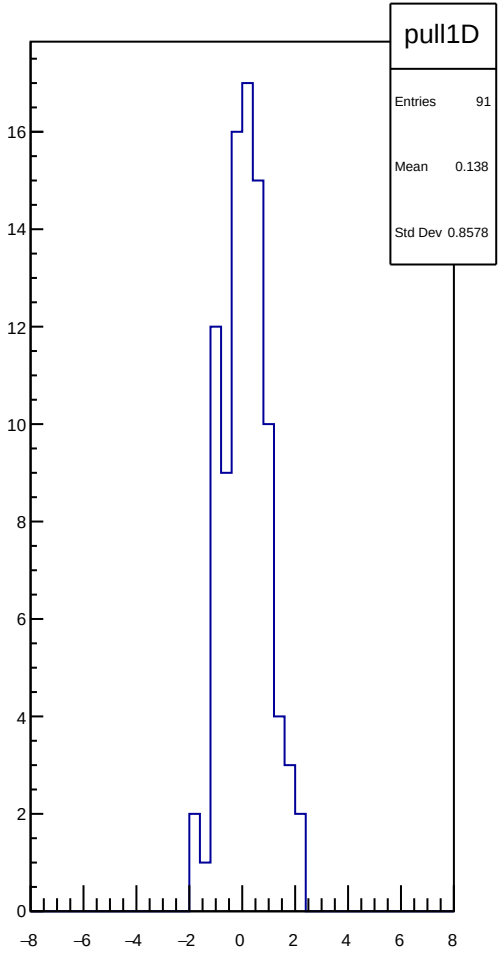

asym_dsl_rms vs run
χ^2 / ndf 352 / 90
p0 100.4 ± 0.07633
104
103
102
101
100
99
98
97
96


reg_asym_dsr_mean vs run
χ^2 / ndf 110.3 / 90
p0 −83.1 ± 148.2
pull
Entries 91
Mean −751.7
Std Dev 841.4

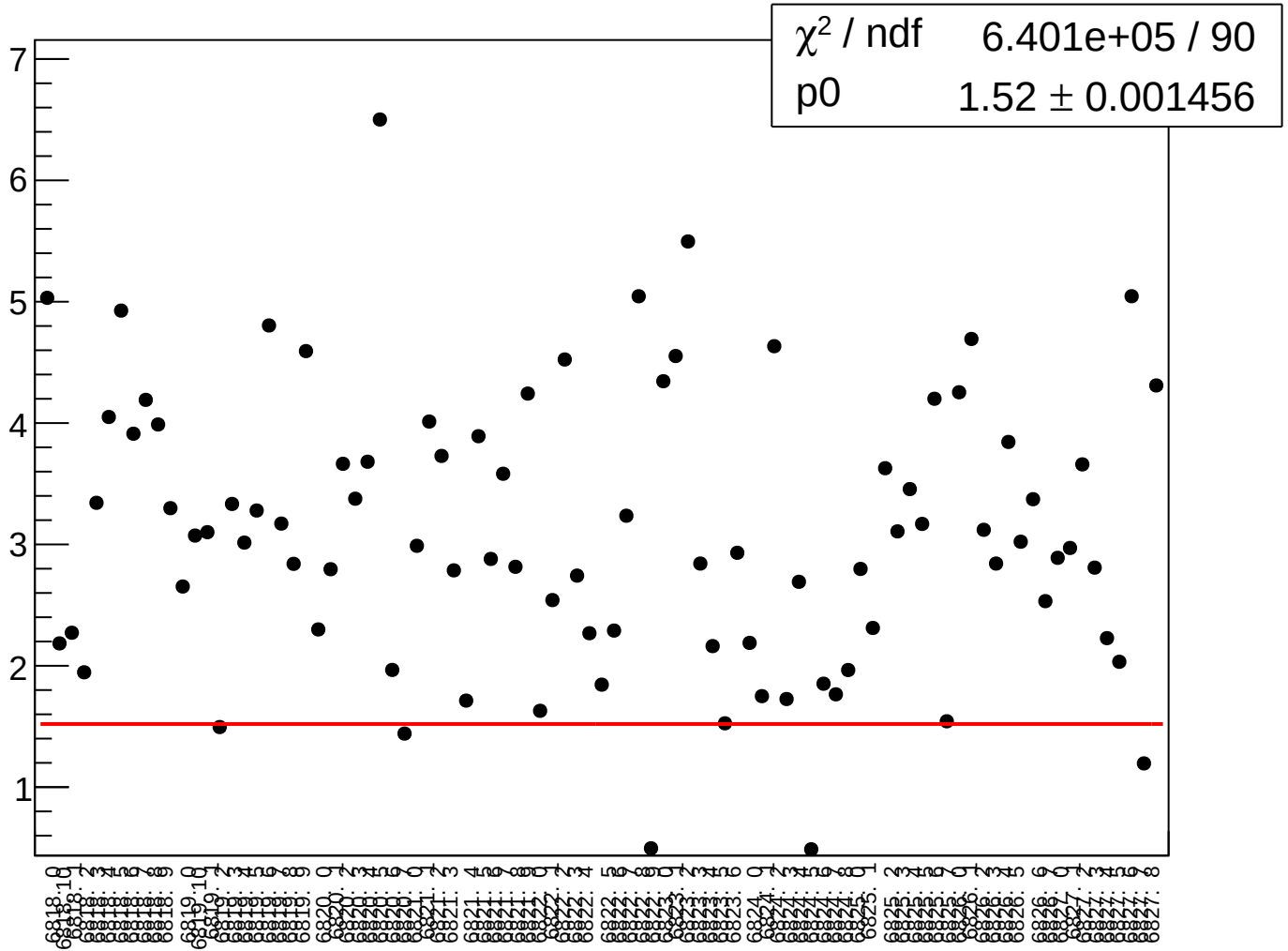

pull1D
Entries 91
Mean 0.0002952
Std Dev 1.101

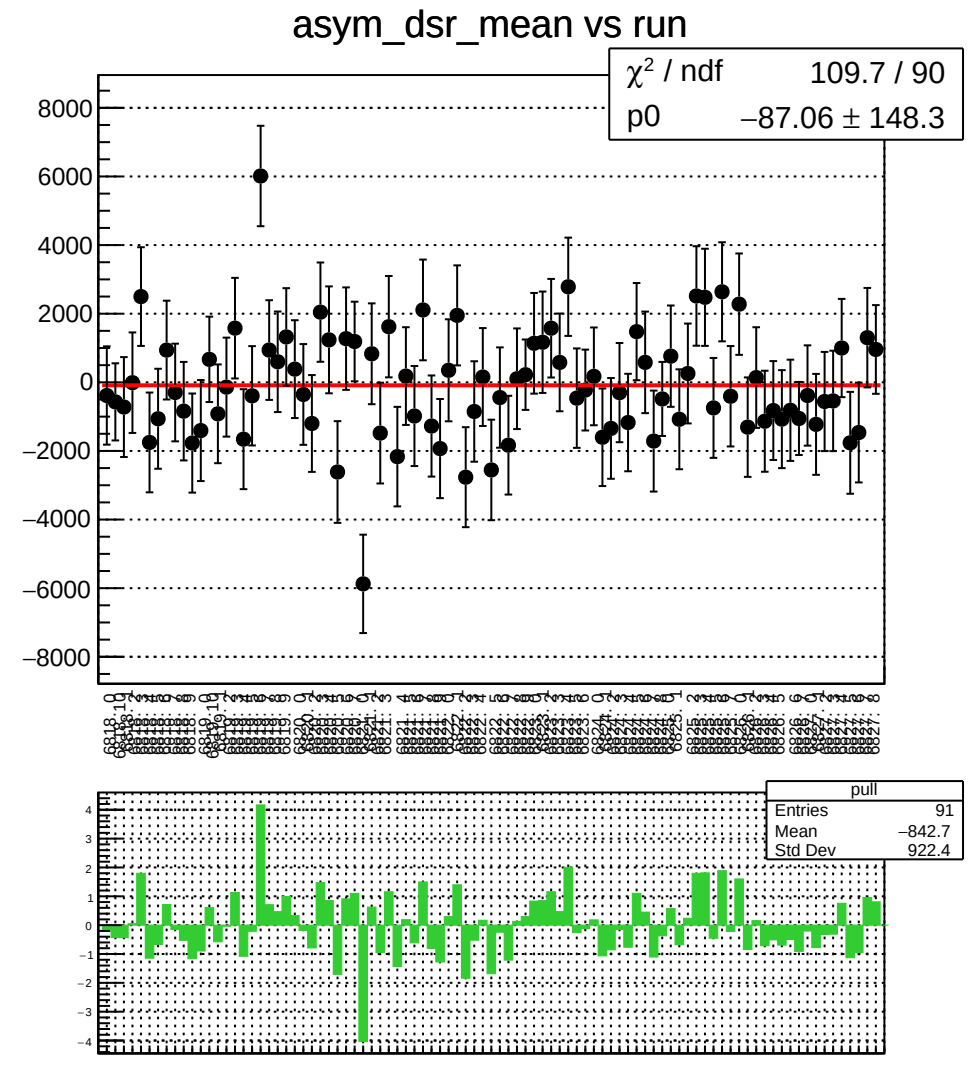

reg_asym_dsr_rms vs run
χ^2 / ndf 383.9 / 90
p0 137.9 ± 0.1048
150
148
146
144
142
140
138
136
134
132

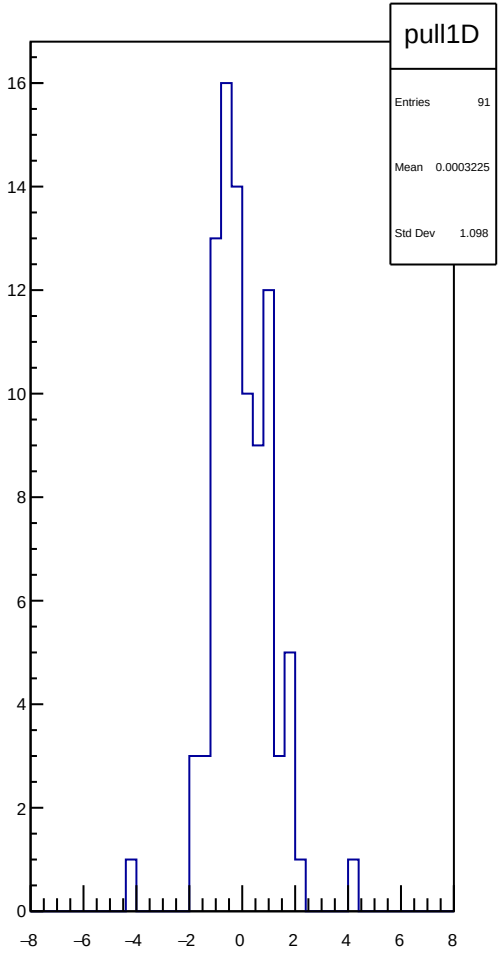

asym_dsr_correction_mean vs run
χ² / ndf 68.69 / 90
p0 −0.855 ± 2.06
100
50
0
−50
−100
pull
Entries 91
Mean 54.52
Std Dev 15.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

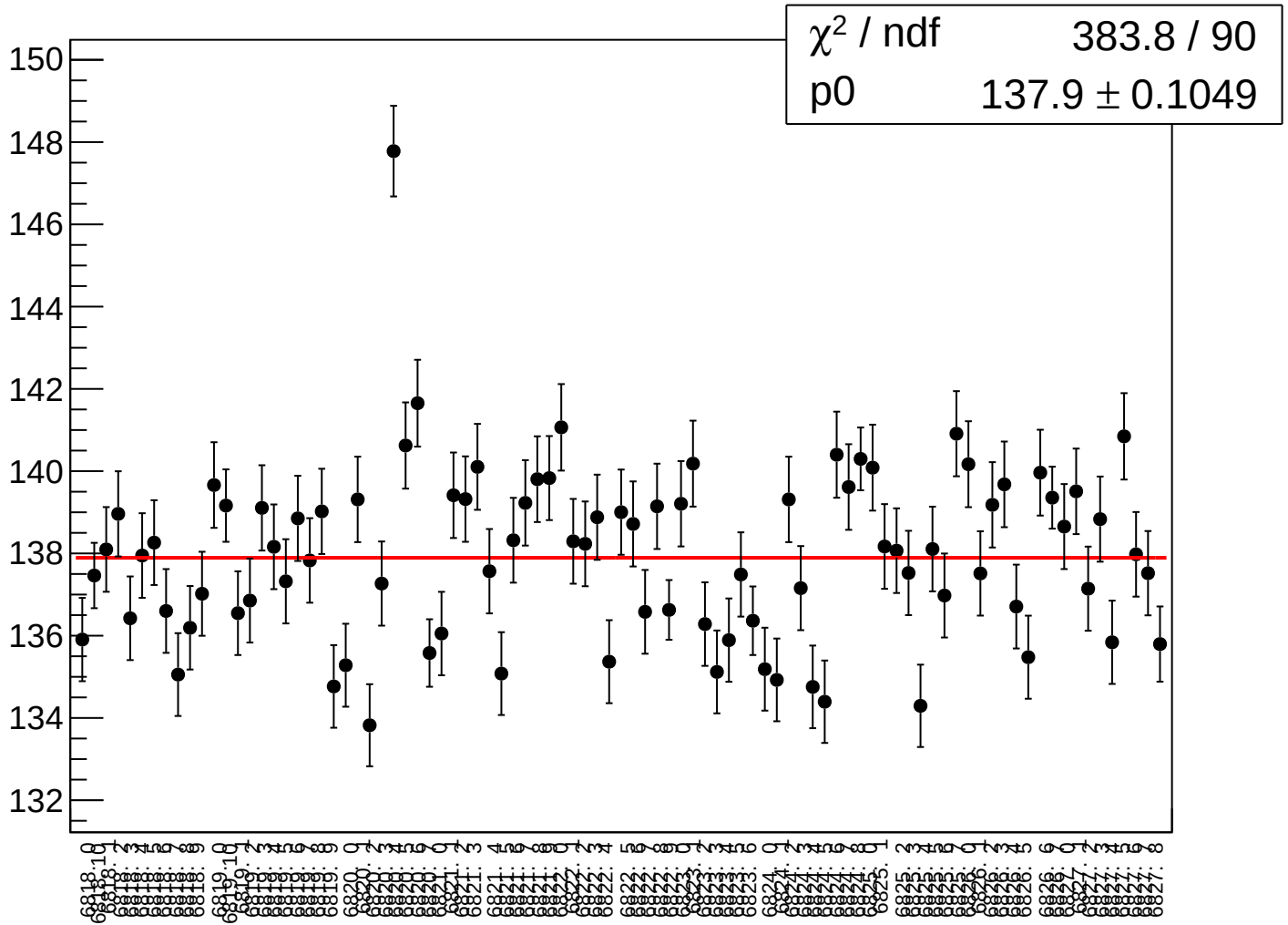

pull1D
Entries 91
Mean 0.138
Std Dev 0.8578
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

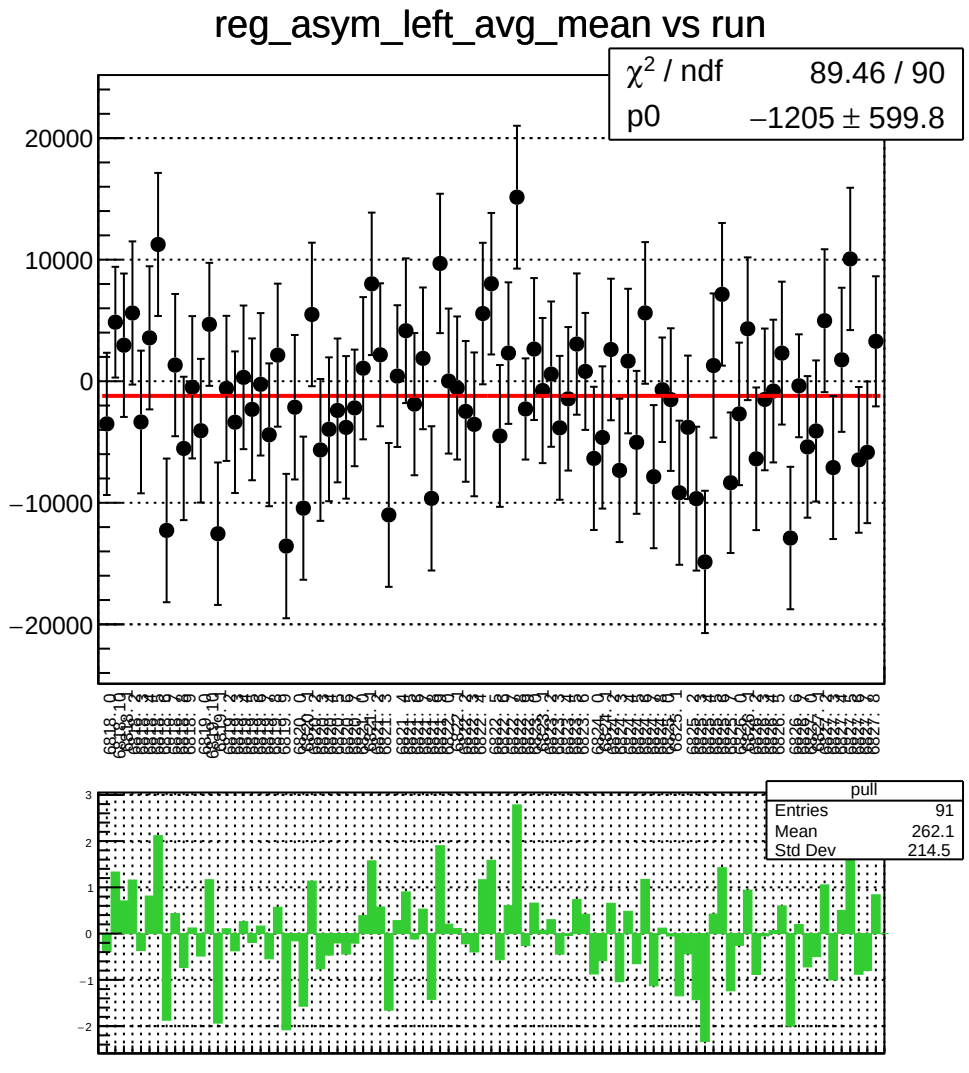
asym_dsr_correction_rms vs run

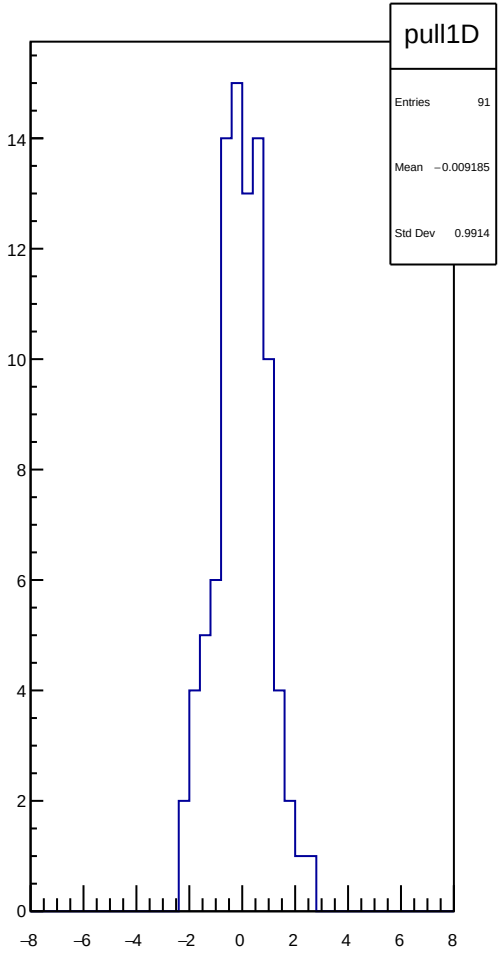


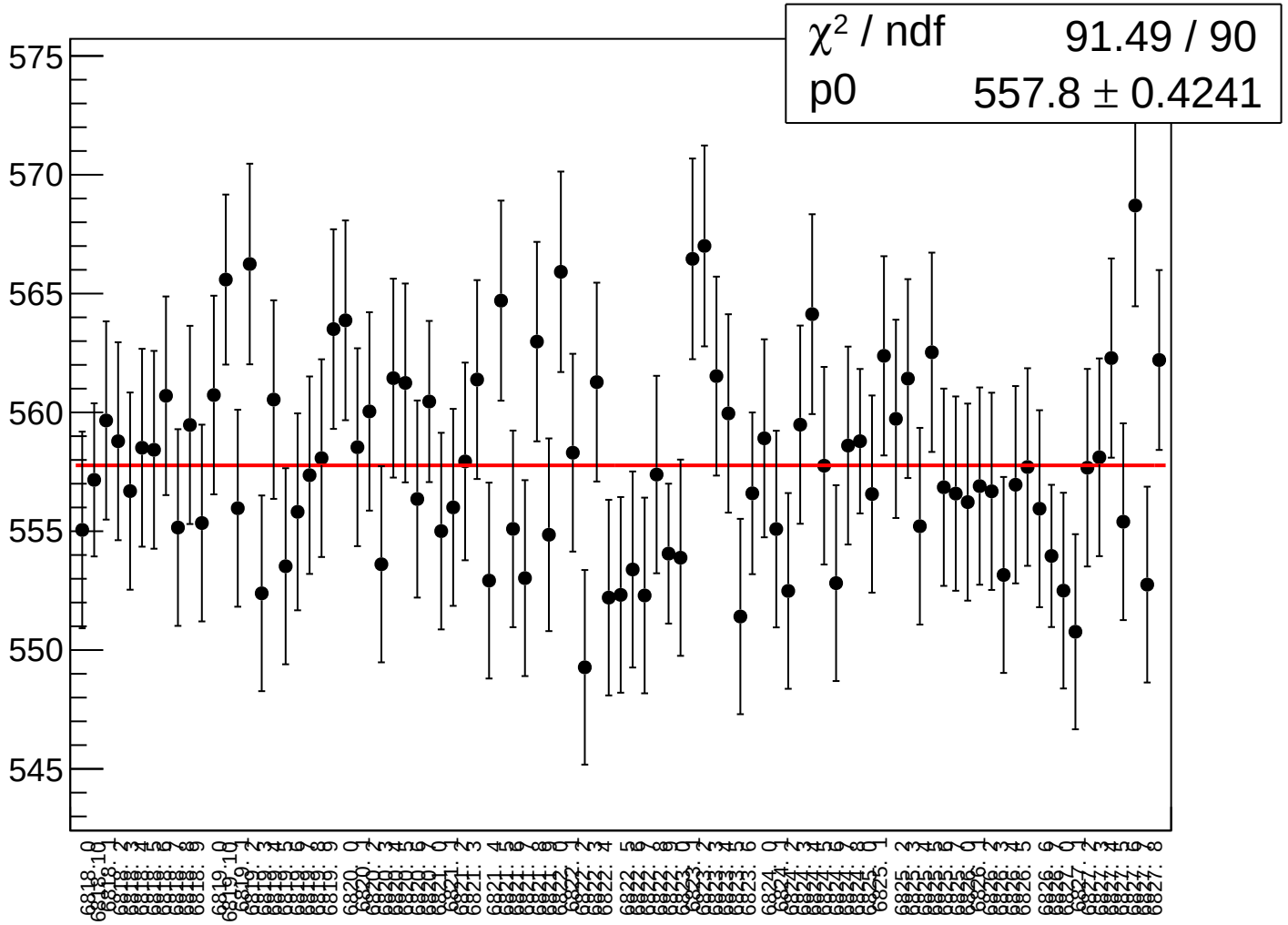

asym_dsr_mean vs run
χ² / ndf 109.7 / 90
p0 −87.06 ± 148.3
pull
Entries 91
Mean −842.7
Std Dev 922.4

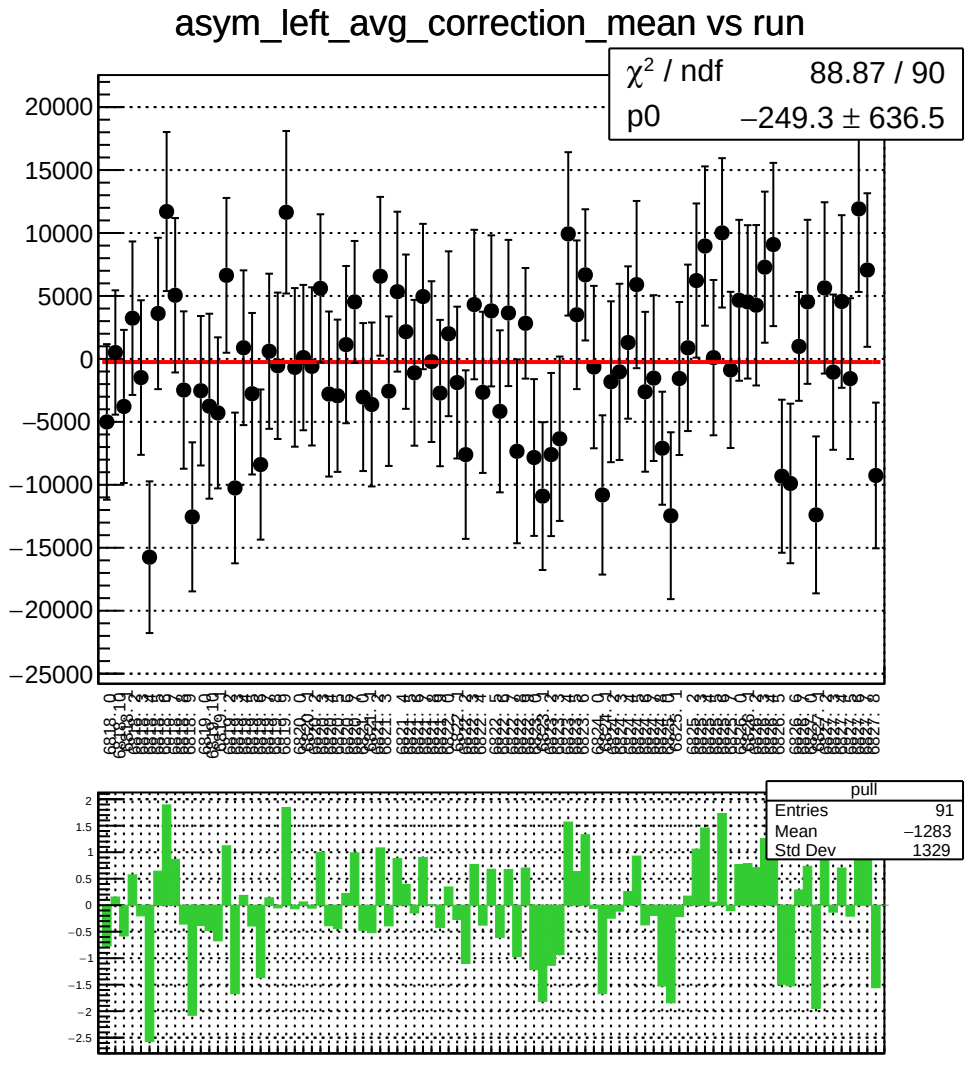

pull1D
Entries 91
Mean 0.0003225
Std Dev 1.098

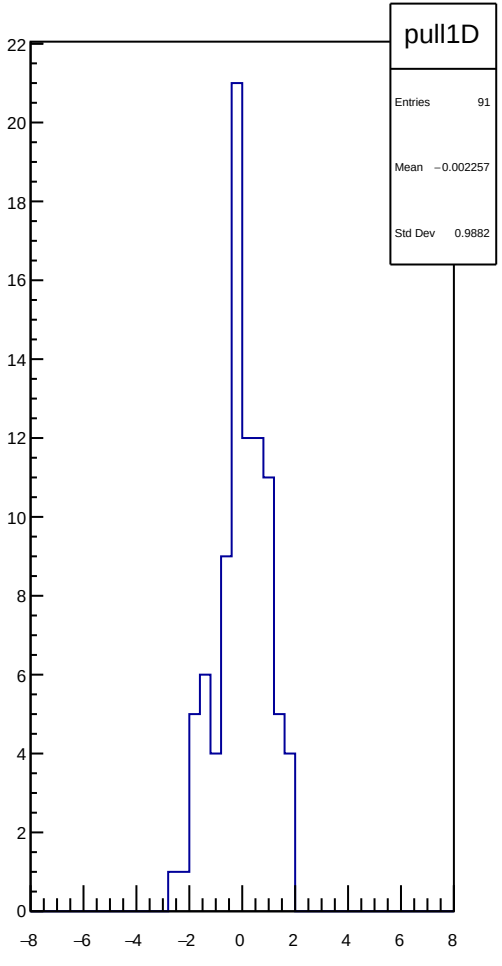

asym_dsr_rms vs run
χ^2 / ndf 383.8 / 90
p0 137.9 ± 0.1049
150
148
146
144
142
140
138
136
134
132

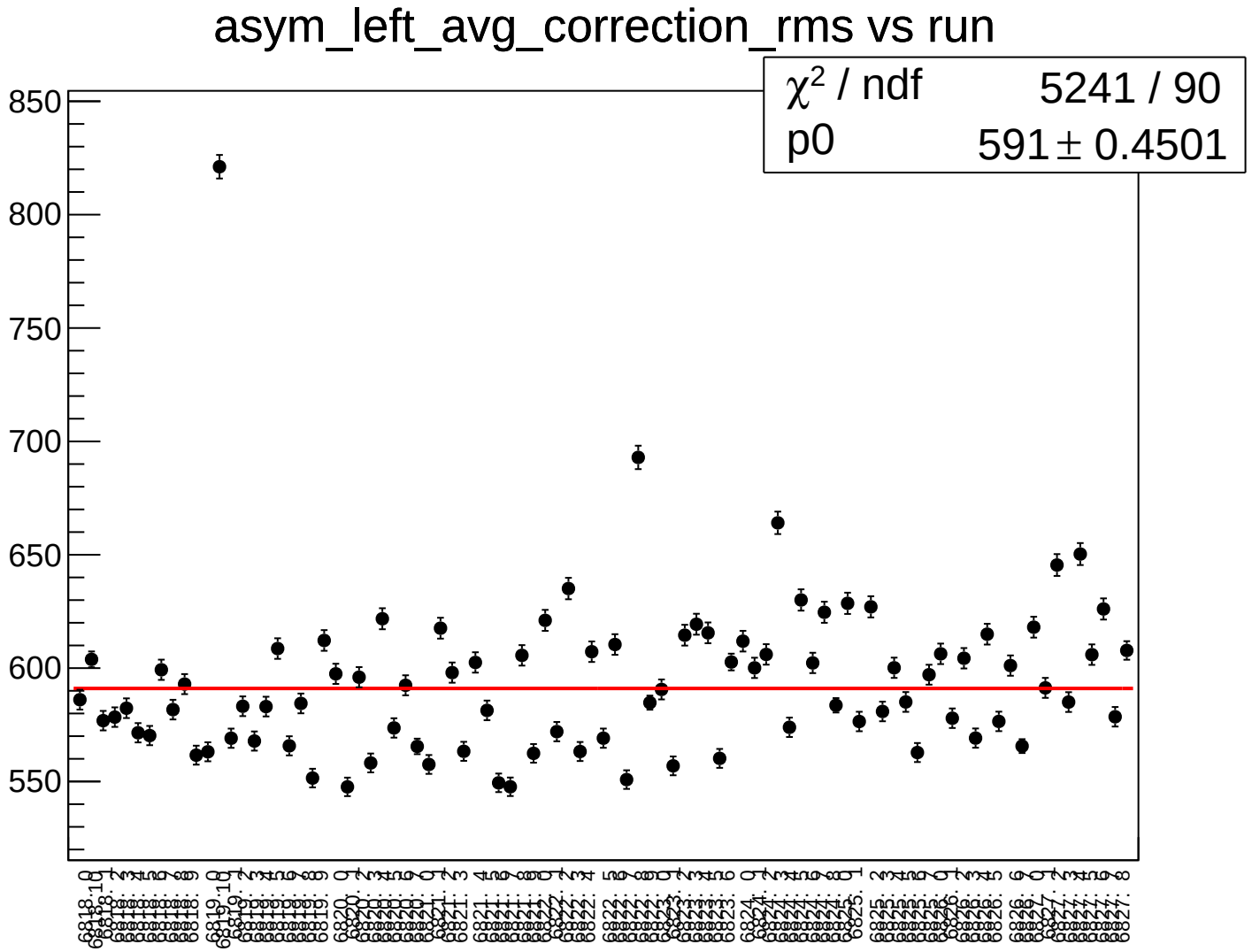

reg_asym_left_avg_mean vs run
χ² / ndf 89.46 / 90
p0 −1205 ± 599.8
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 262.1
Std Dev 214.5
3
2
1
0
−1
−2

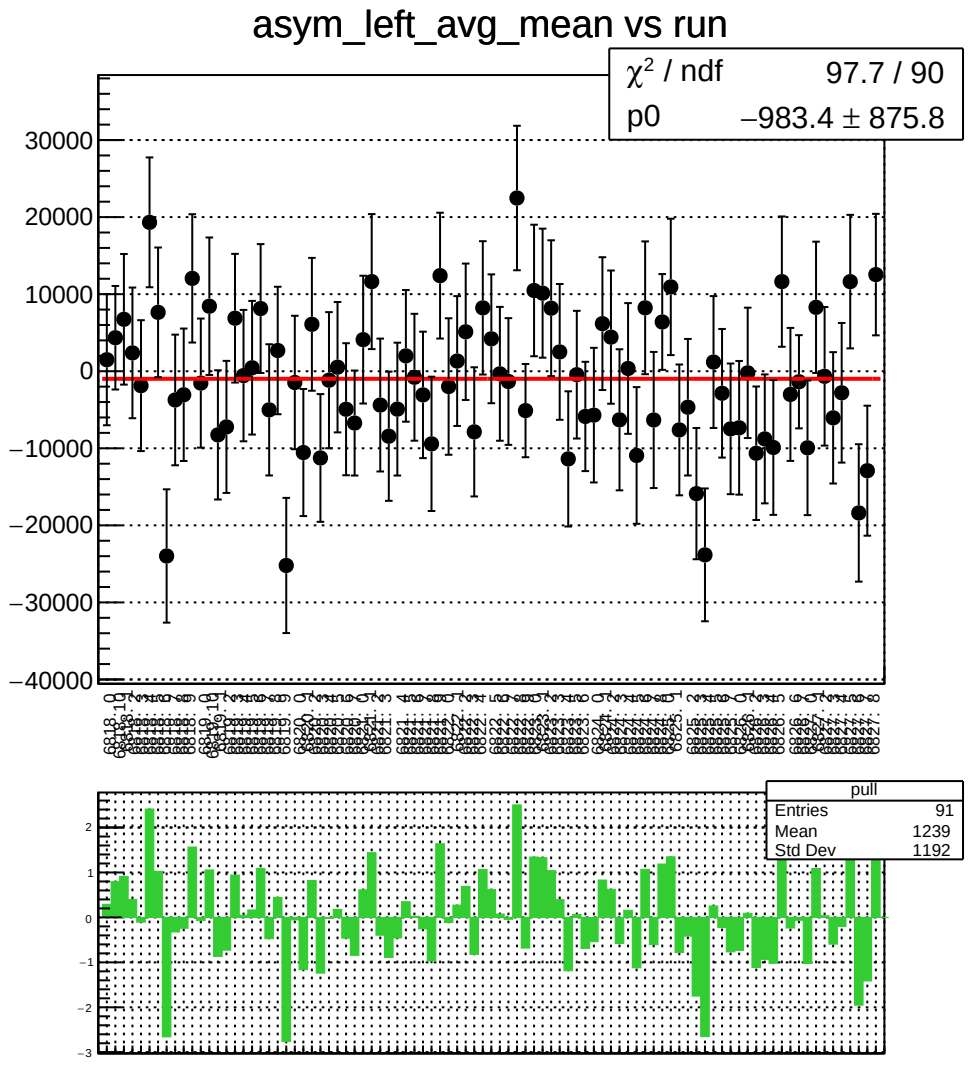

pull1D
Entries 91
Mean −0.009185
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

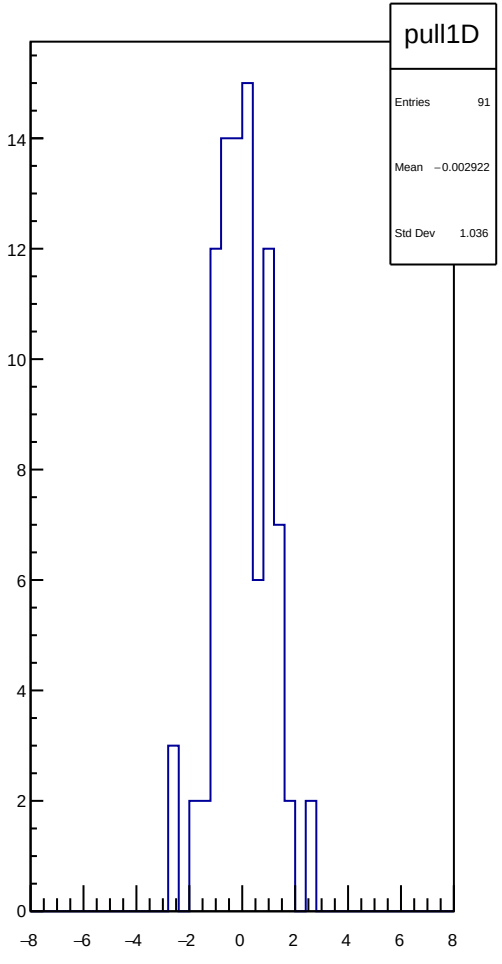

reg_asym_left_avg_rms vs run
χ^2 / ndf 91.49 / 90
p0 557.8 ± 0.4241
575
570
565
560
555
550
545

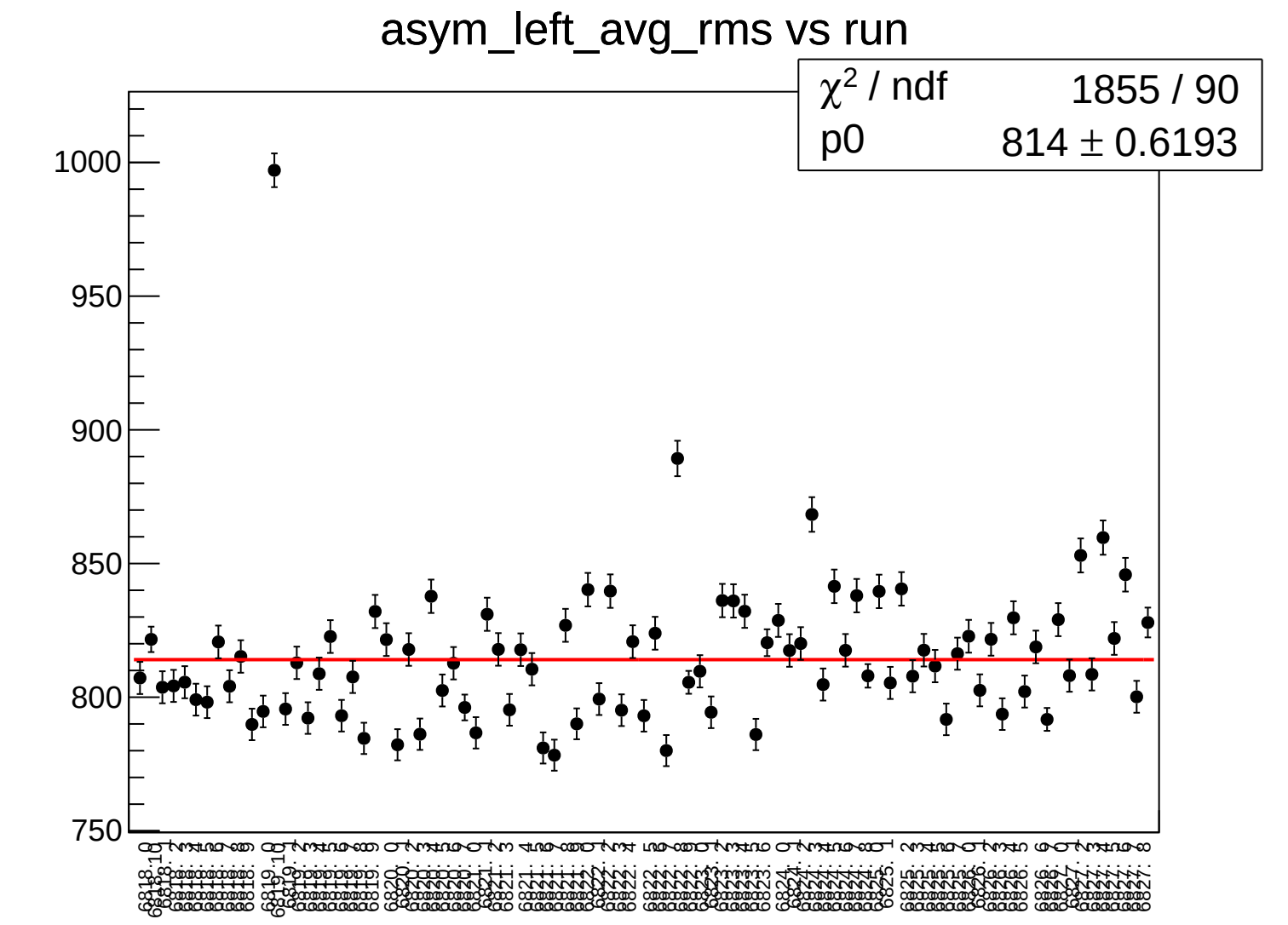

asym_left_avg_correction_mean vs run
χ² / ndf 88.87 / 90
p0 −249.3 ± 636.5
pull
Entries 91
Mean −1283
Std Dev 1329

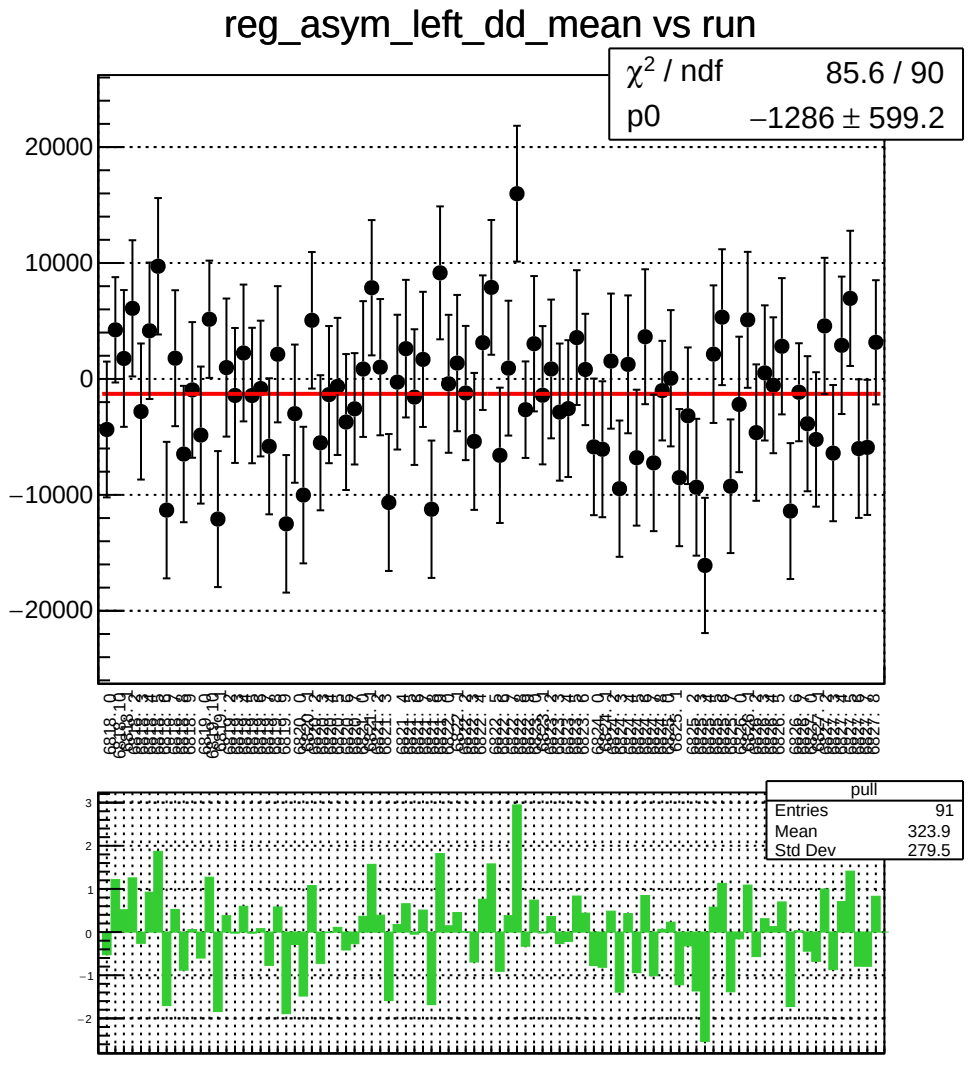

pull1D
Entries 91
Mean −0.002257
Std Dev 0.9882

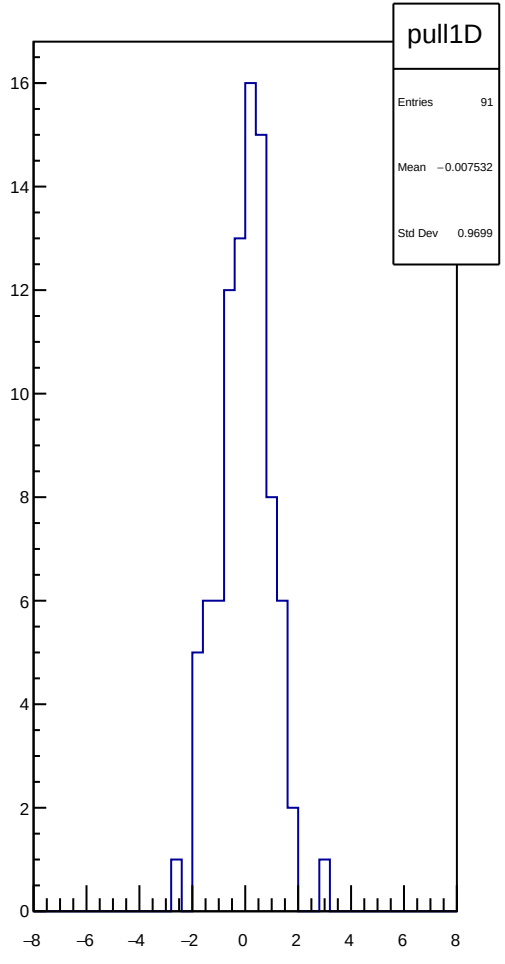

asym_left_avg_correction_rms vs run
χ^2 / ndf 5241 / 90
p0 591 ± 0.4501
850
800
750
700
650
600
550

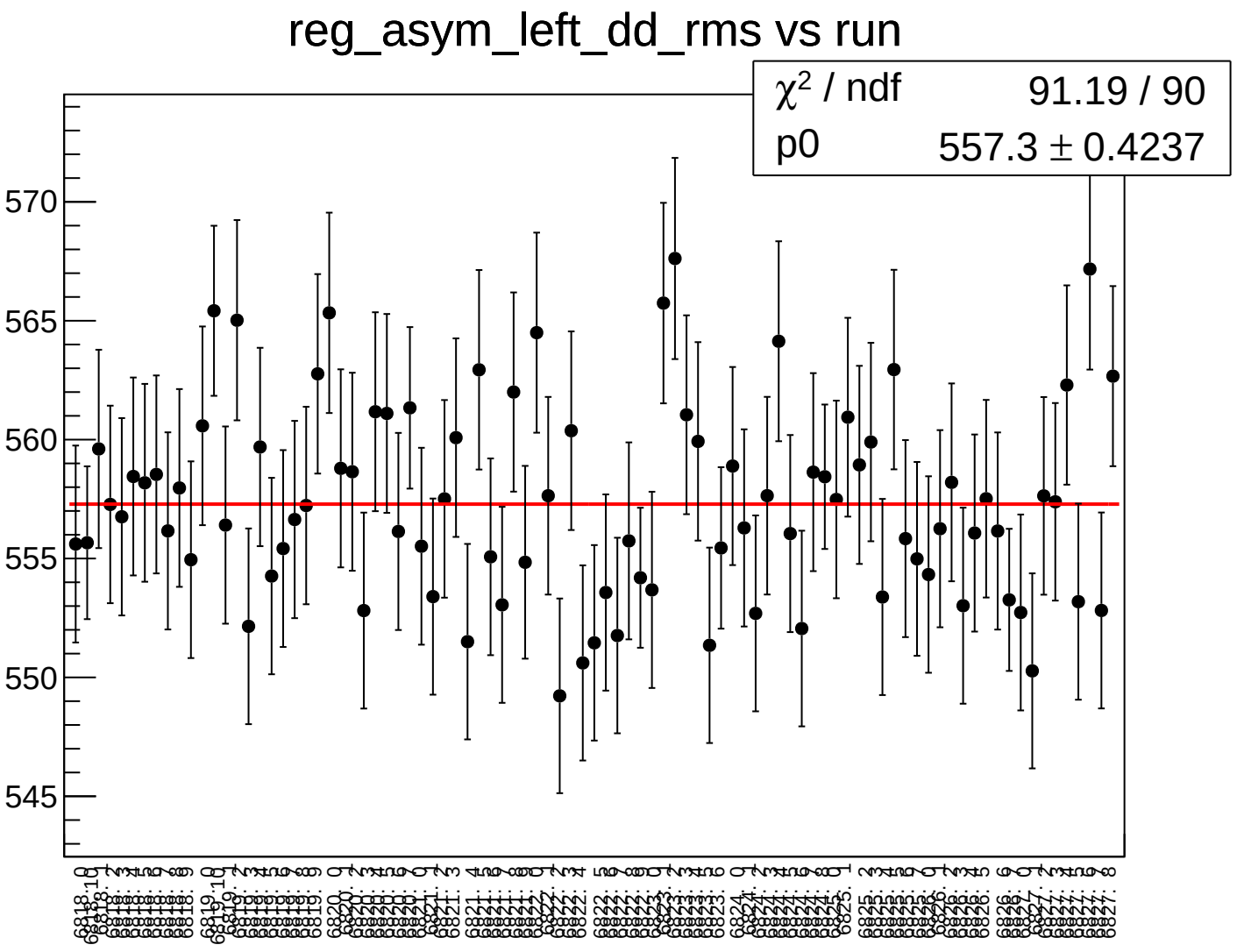

asym_left_avg_mean vs run
χ² / ndf 97.7 / 90
p0 −983.4 ± 875.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 1239
Std Dev 1192
2
1
0
−1
−2
−3

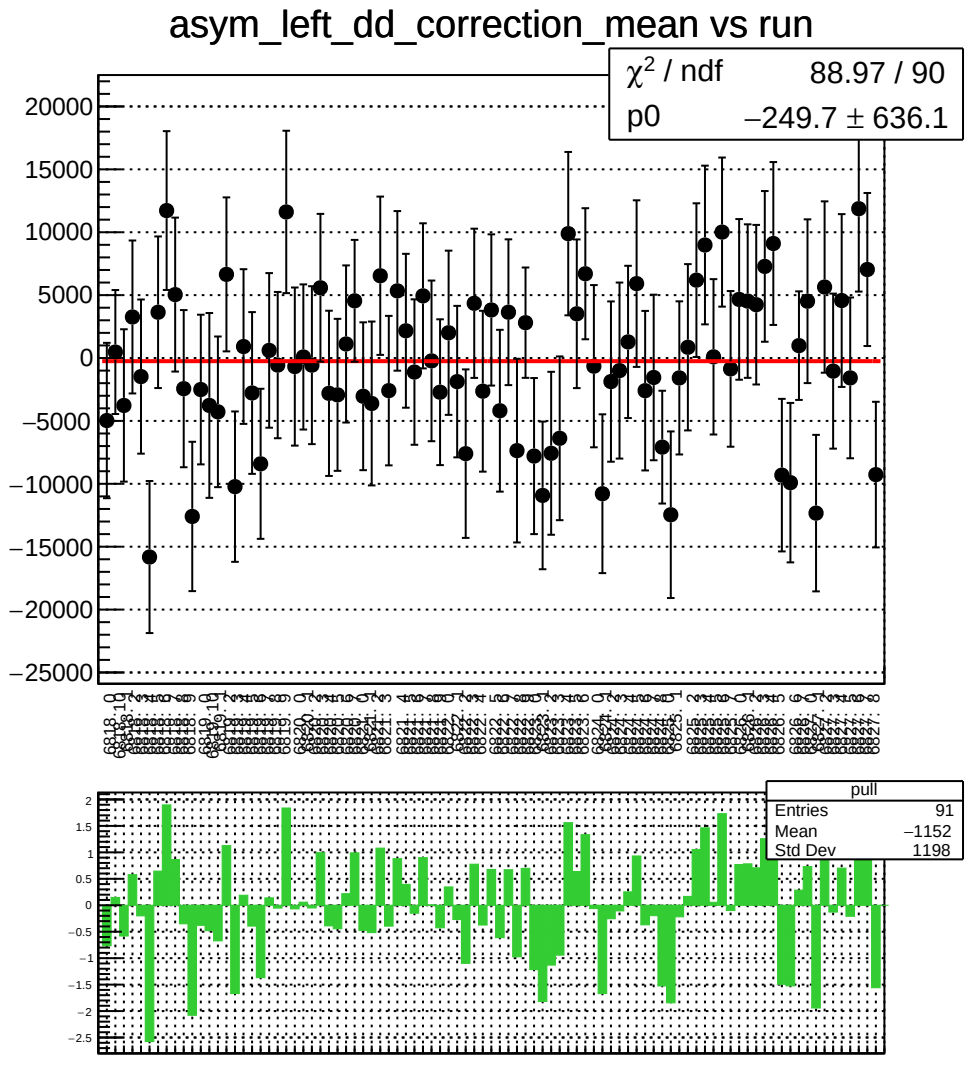

pull1D
Entries 91
Mean −0.002922
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

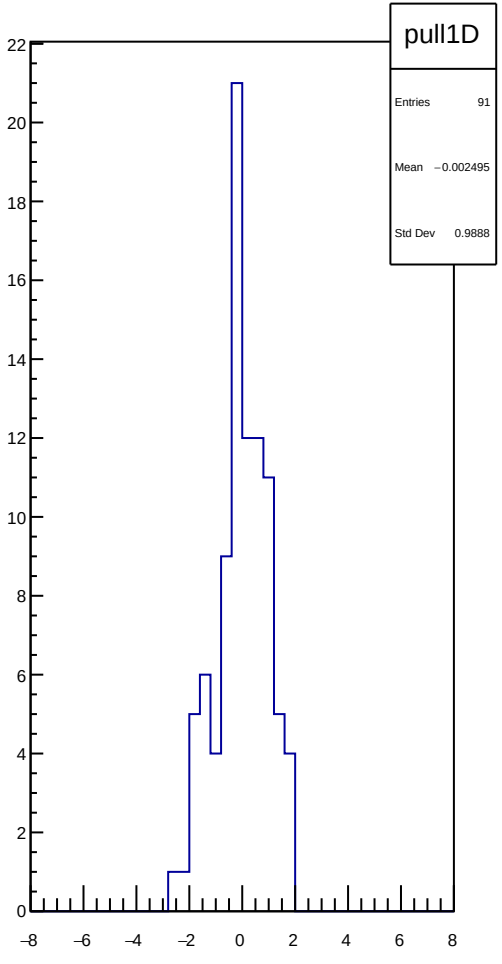

asym_left_avg_rms vs run
χ² / ndf 1855 / 90
p0 814 ± 0.6193
1000
950
900
850
800
750

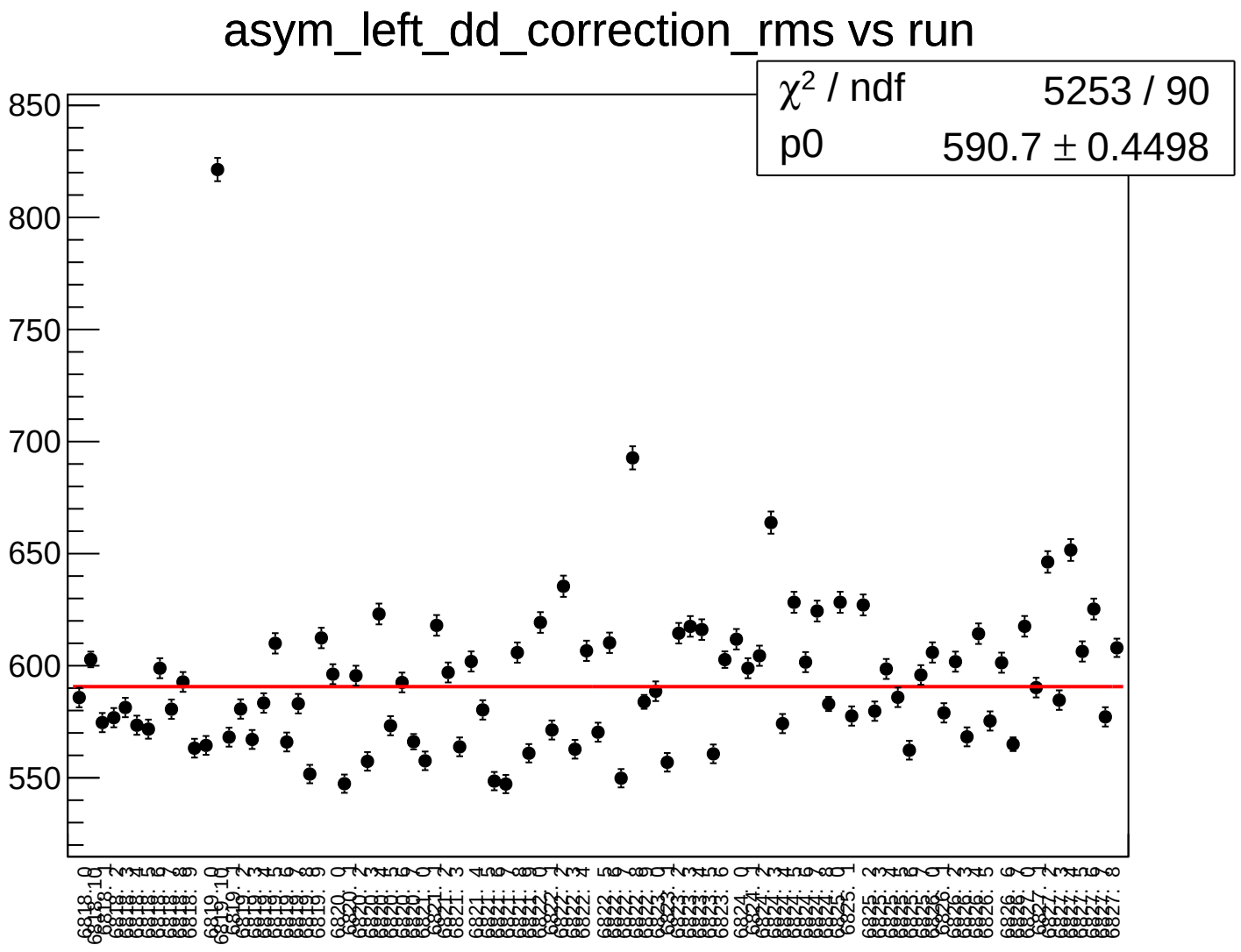

reg_asym_left_dd_mean vs run
χ² / ndf 85.6 / 90
p0 −1286 ± 599.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 323.9
Std Dev 279.5
3
2
1
0
−1
−2

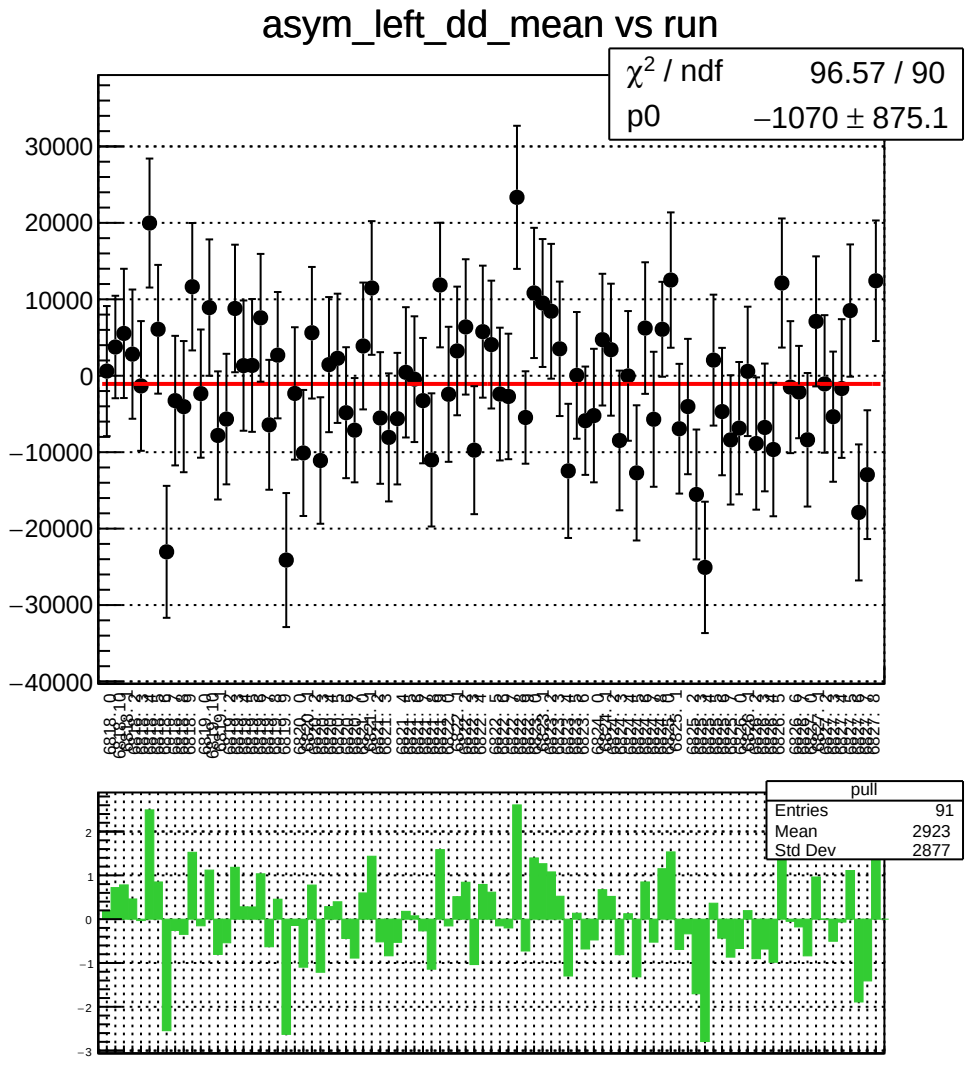

pull1D
Entries 91
Mean −0.007532
Std Dev 0.9699
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

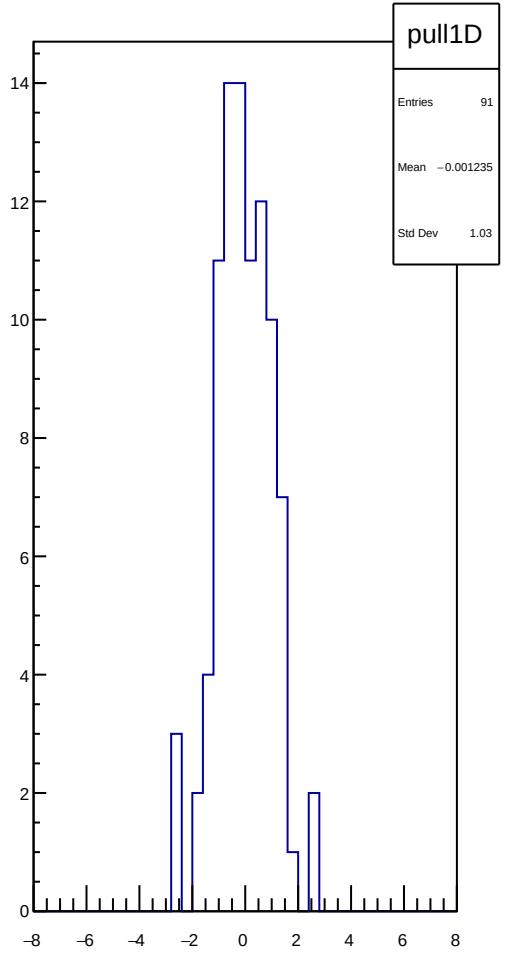

reg_asym_left_dd_rms vs run
χ^2 / ndf 91.19 / 90
p0 557.3 ± 0.4237
570
565
560
555
550
545

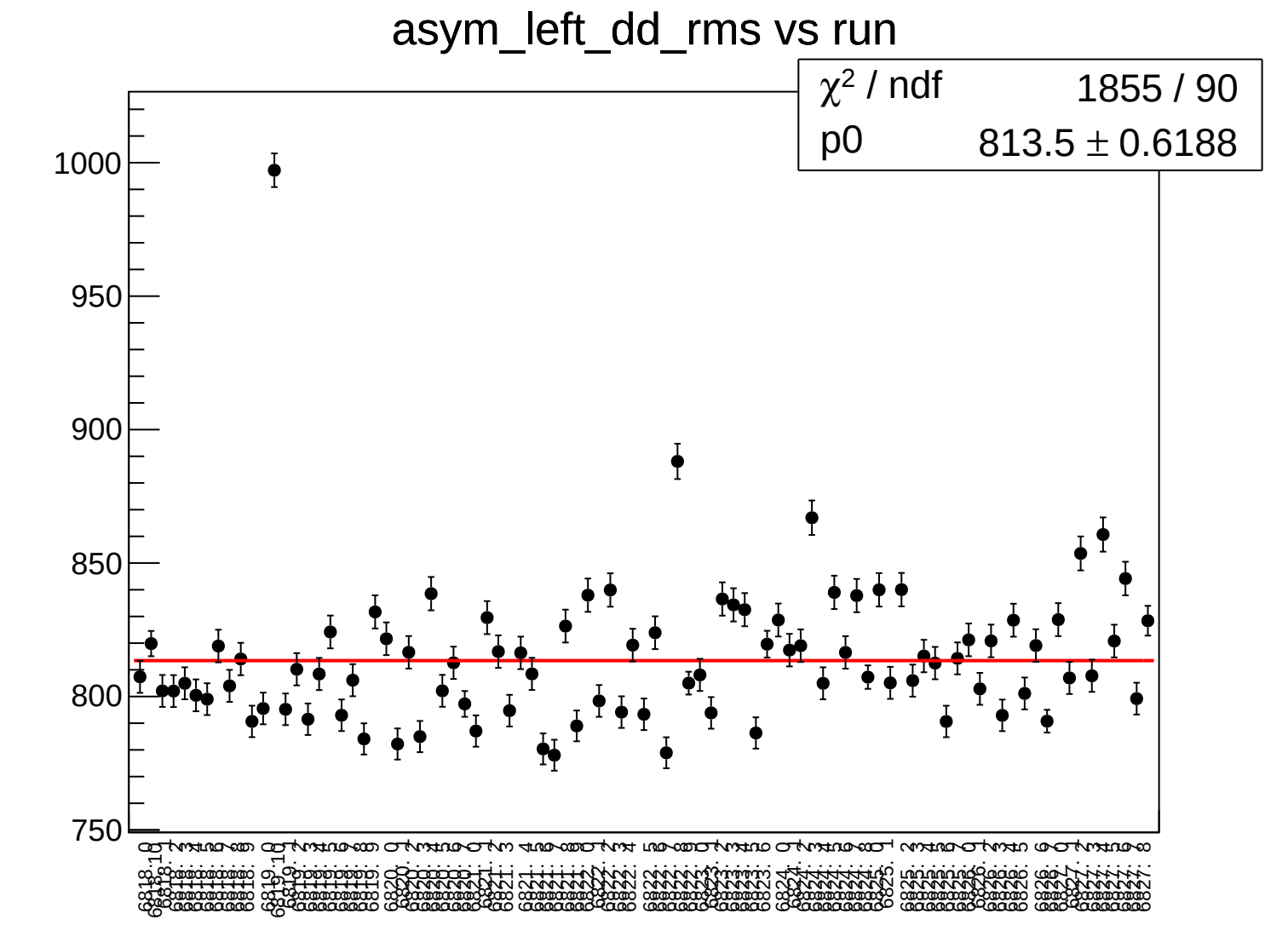

asym_left_dd_correction_mean vs run
χ² / ndf 88.97 / 90
p0 −249.7 ± 636.1
pull
Entries 91
Mean −1152
Std Dev 1198

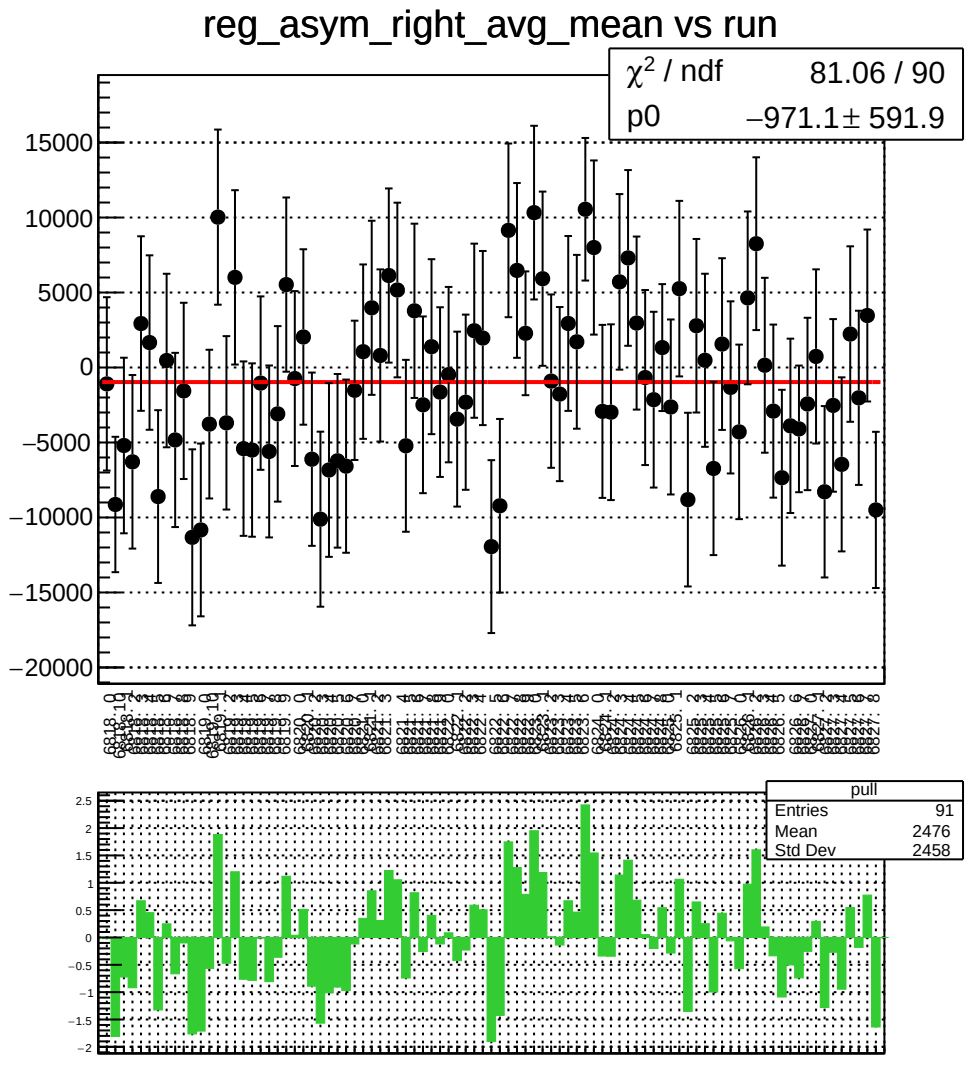

pull1D
Entries 91
Mean −0.002495
Std Dev 0.9888

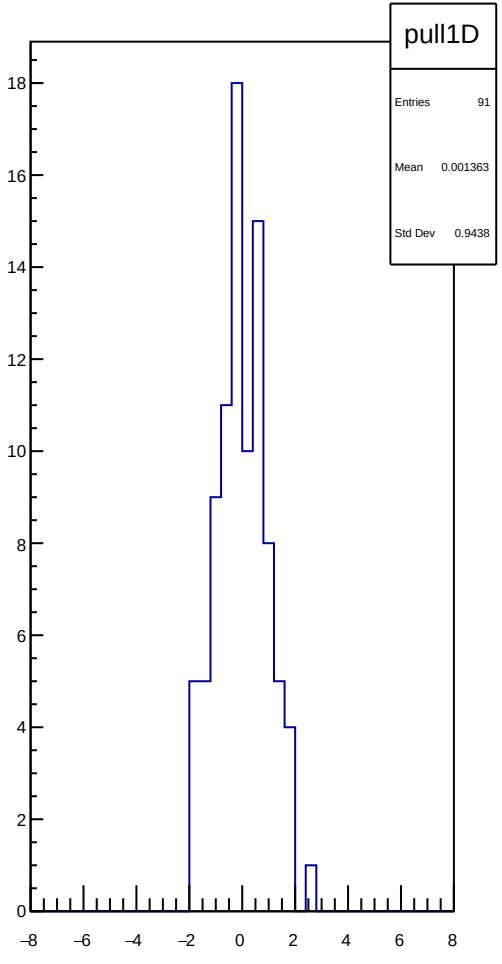

asym_left_dd_correction_rms vs run
χ² / ndf 5253 / 90
p0 590.7 ± 0.4498
850
800
750
700
650
600
550

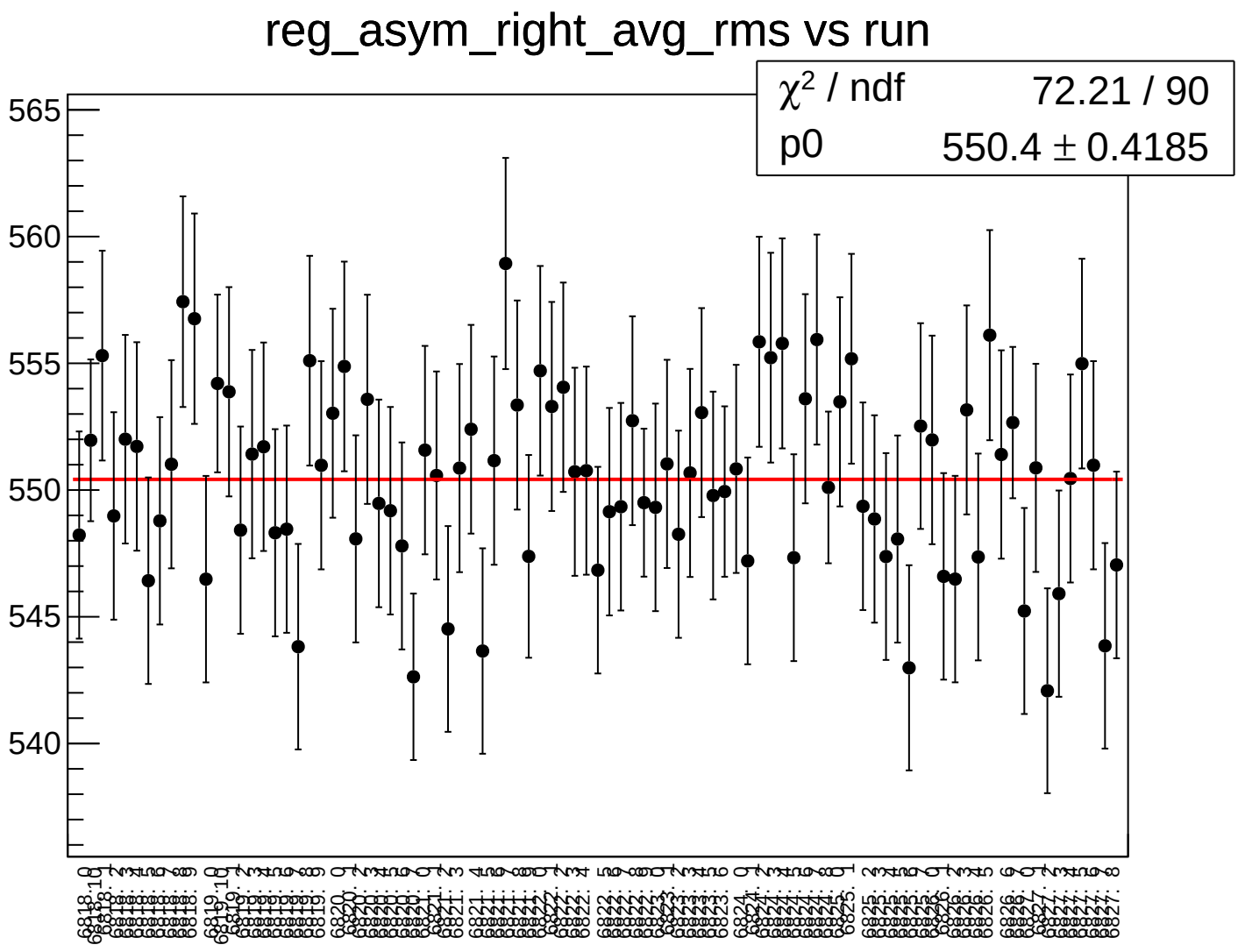

asym_left_dd_mean vs run
χ² / ndf 96.57 / 90
p0 −1070 ± 875.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 2923
Std Dev 2877
2
1
0
−1
−2
−3

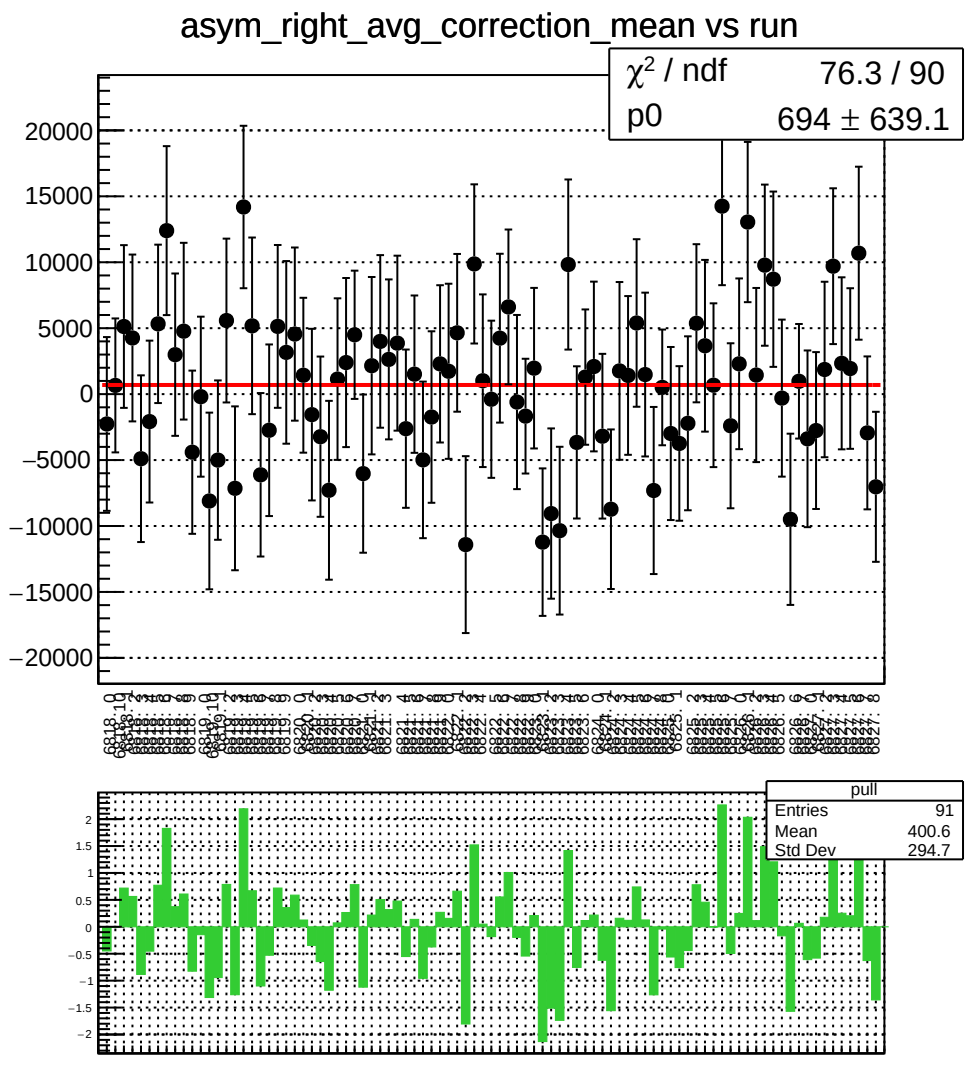

pull1D
Entries 91
Mean −0.001235
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

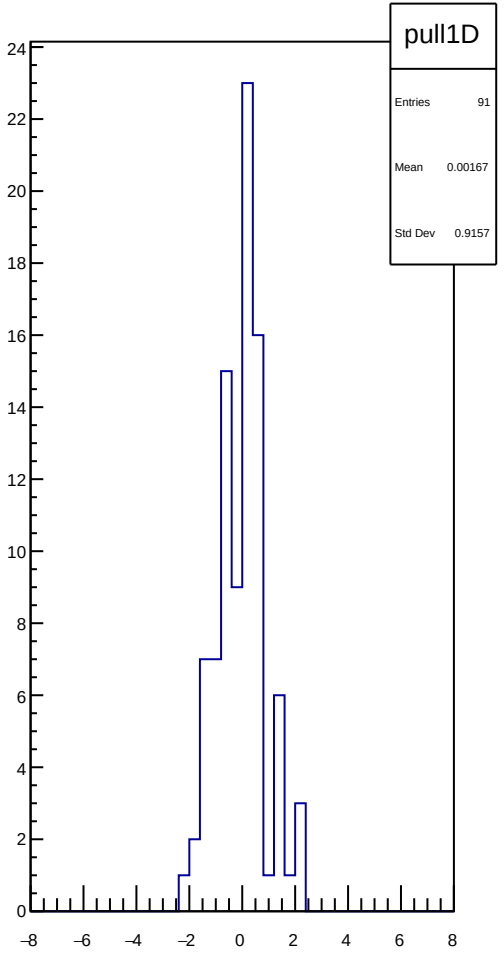

asym_left_dd_rms vs run
χ² / ndf 1855 / 90
p0 813.5 ± 0.6188
1000
950
900
850
800
750

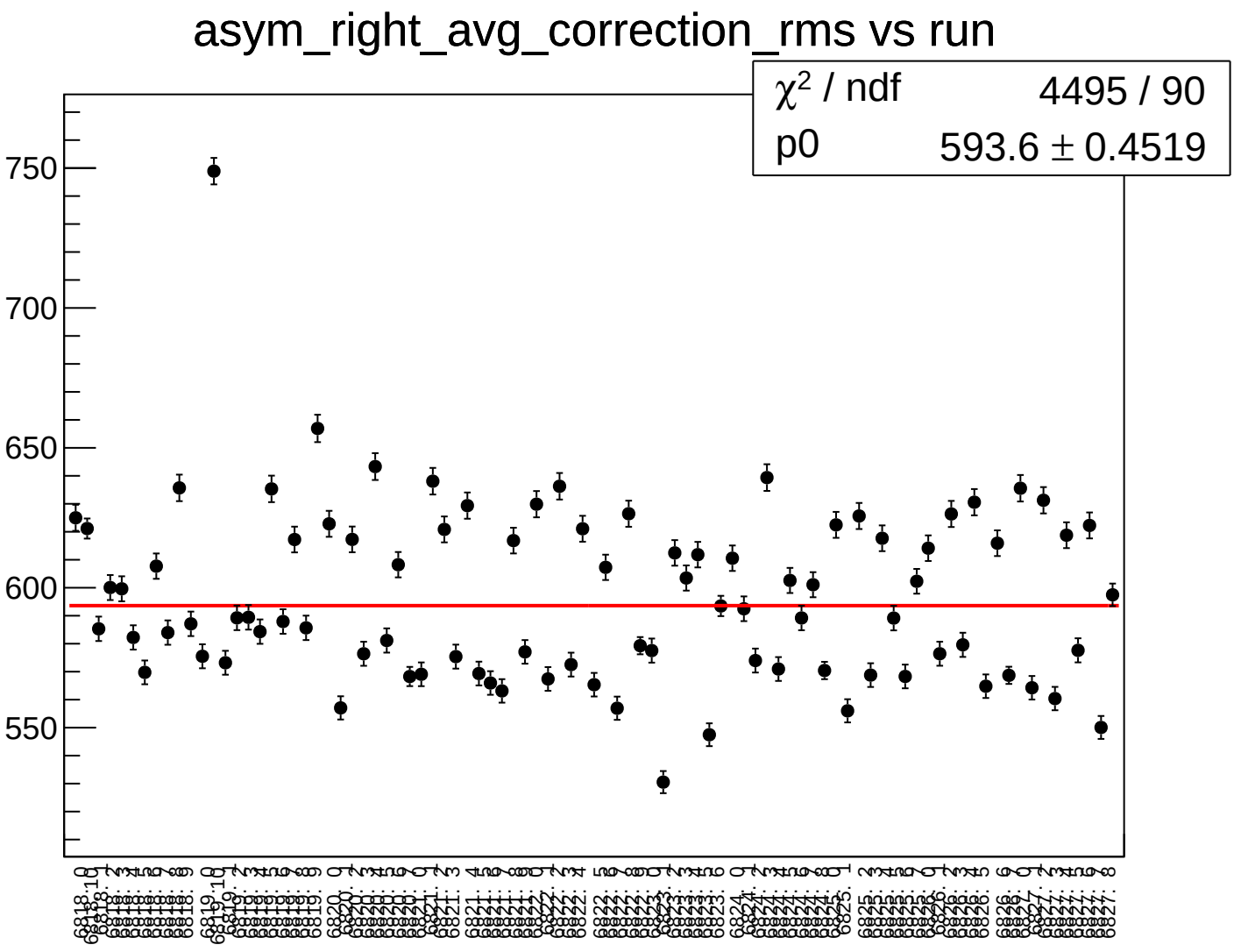

reg_asym_right_avg_mean vs run
χ² / ndf 81.06 / 90
p0 −971.1 ± 591.9
pull
Entries 91
Mean 2476
Std Dev 2458

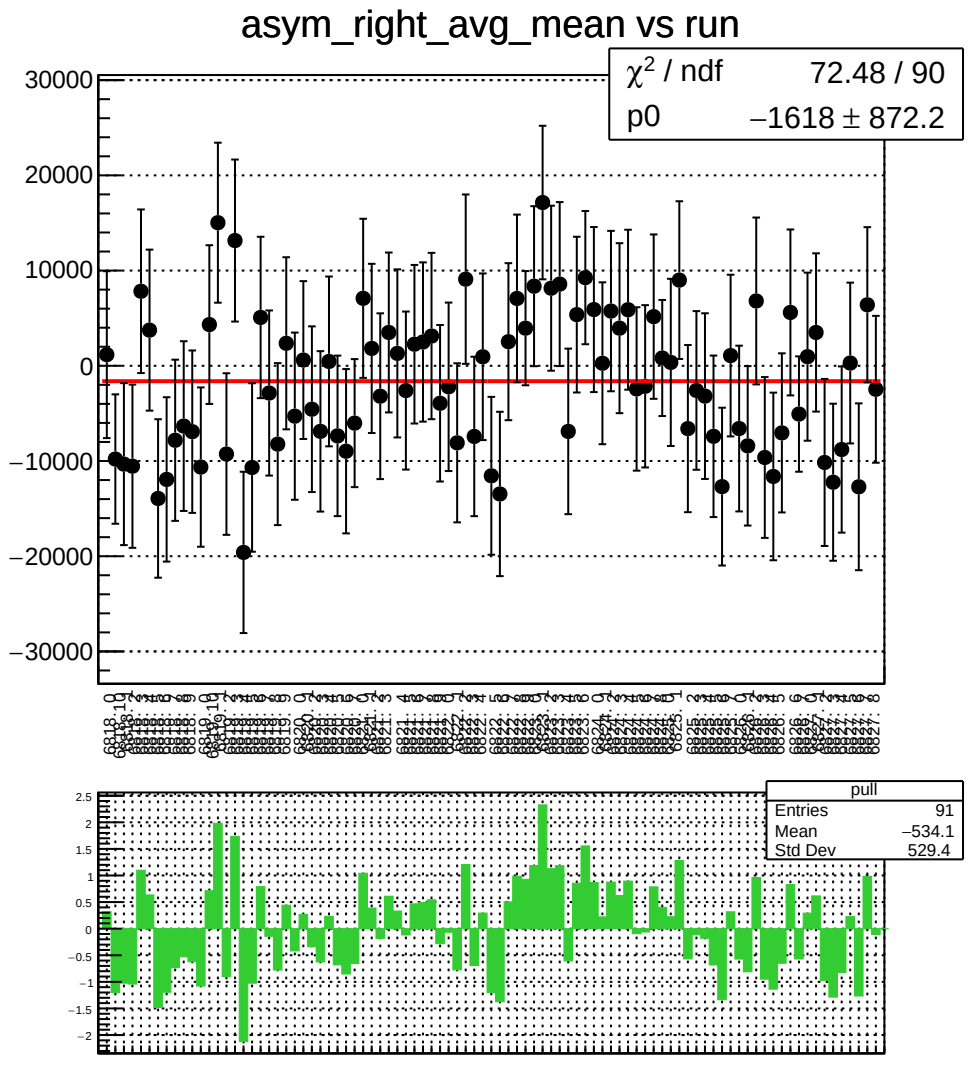

pull1D
Entries 91
Mean 0.001363
Std Dev 0.9438

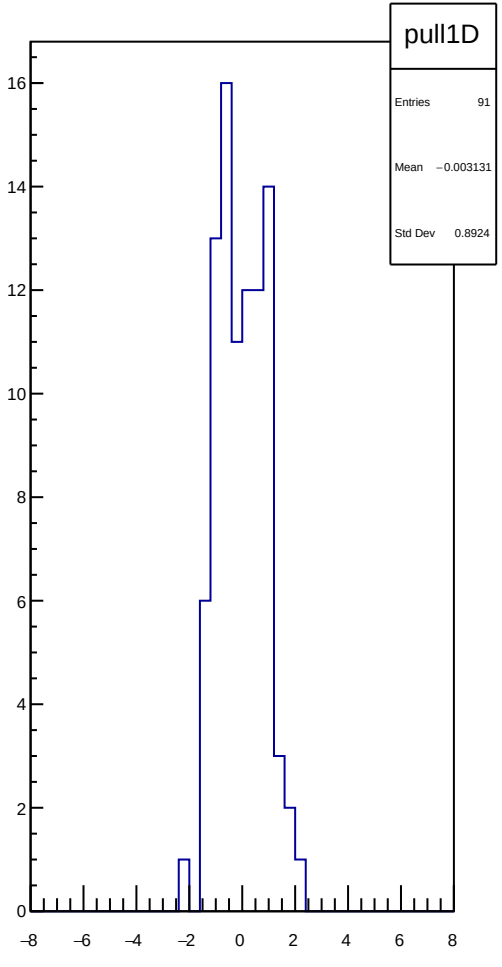

reg_asym_right_avg_rms vs run
χ^2 / ndf 72.21 / 90
p0 550.4 ± 0.4185
565
560
555
550
545
540

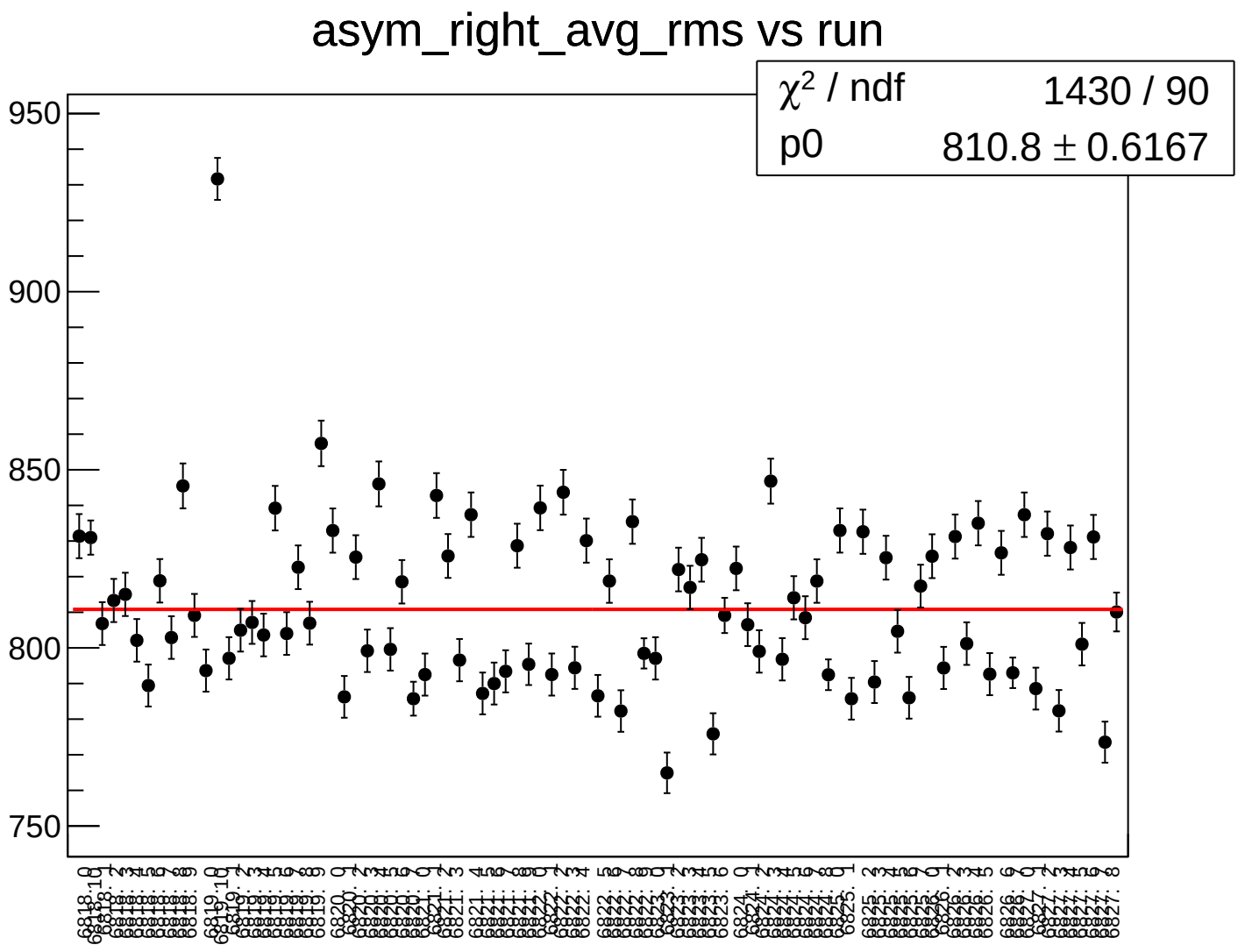

asym_right_avg_correction_mean vs run
χ² / ndf 76.3 / 90
p0 694 ± 639.1
pull
Entries 91
Mean 400.6
Std Dev 294.7

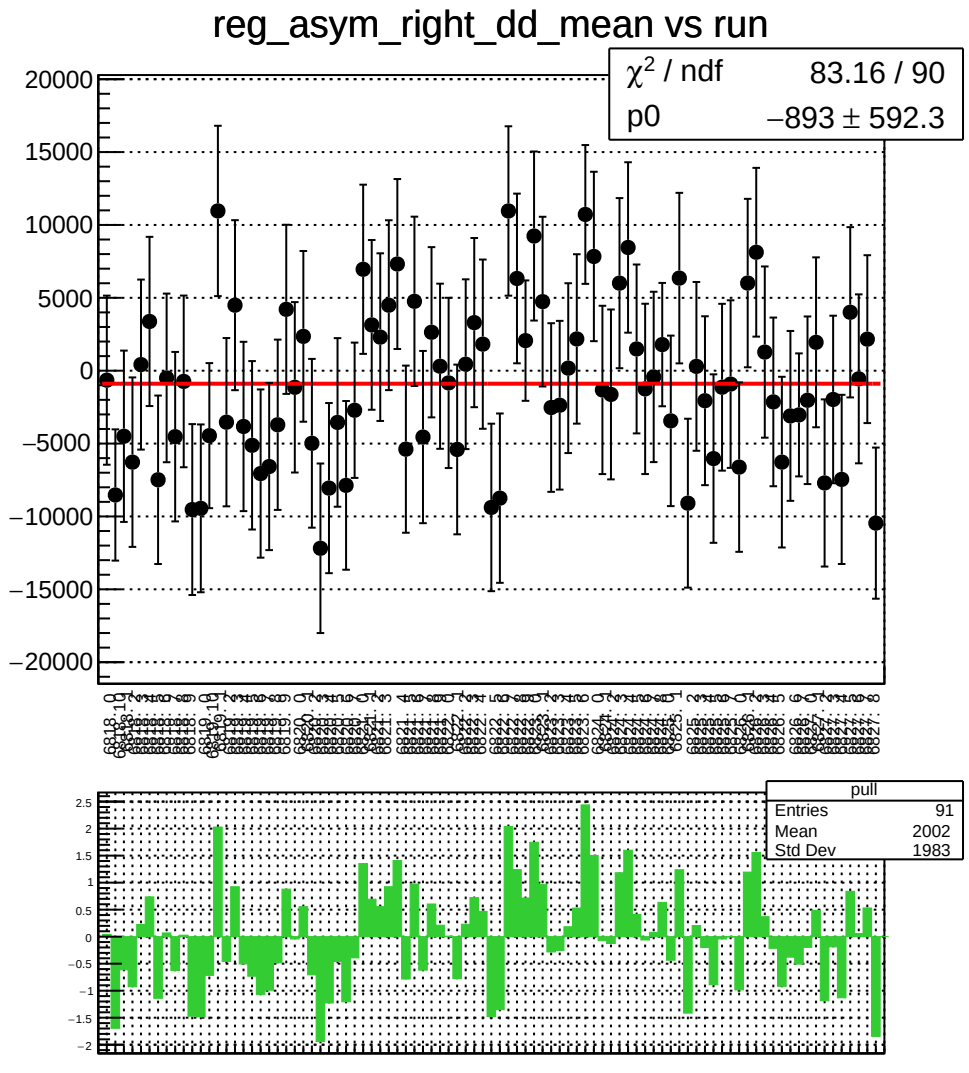

pull1D
Entries 91
Mean 0.00167
Std Dev 0.9157

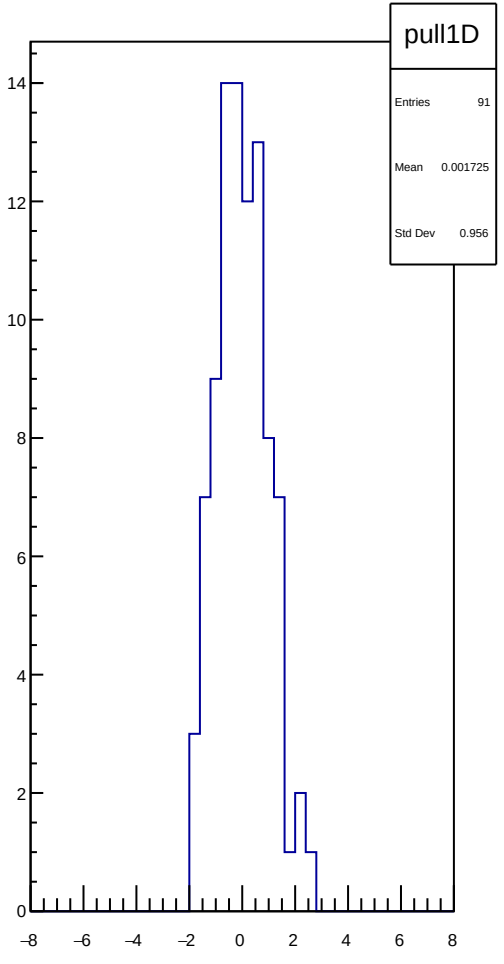

asym_right_avg_correction_rms vs run
χ² / ndf 4495 / 90
p0 593.6 ± 0.4519
750
700
650
600
550

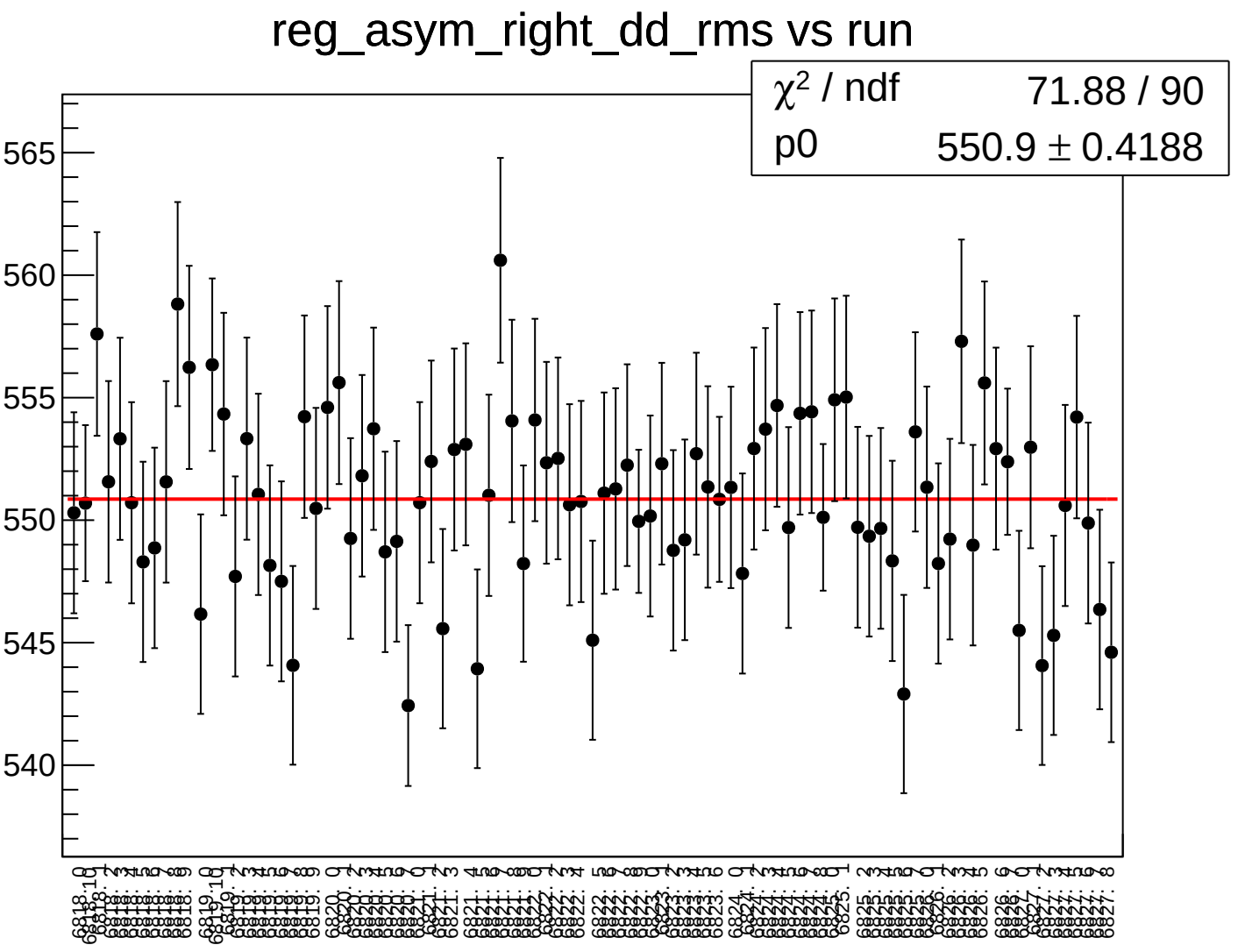

asym_right_avg_mean vs run
χ² / ndf 72.48 / 90
p0 −1618 ± 872.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −534.1
Std Dev 529.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

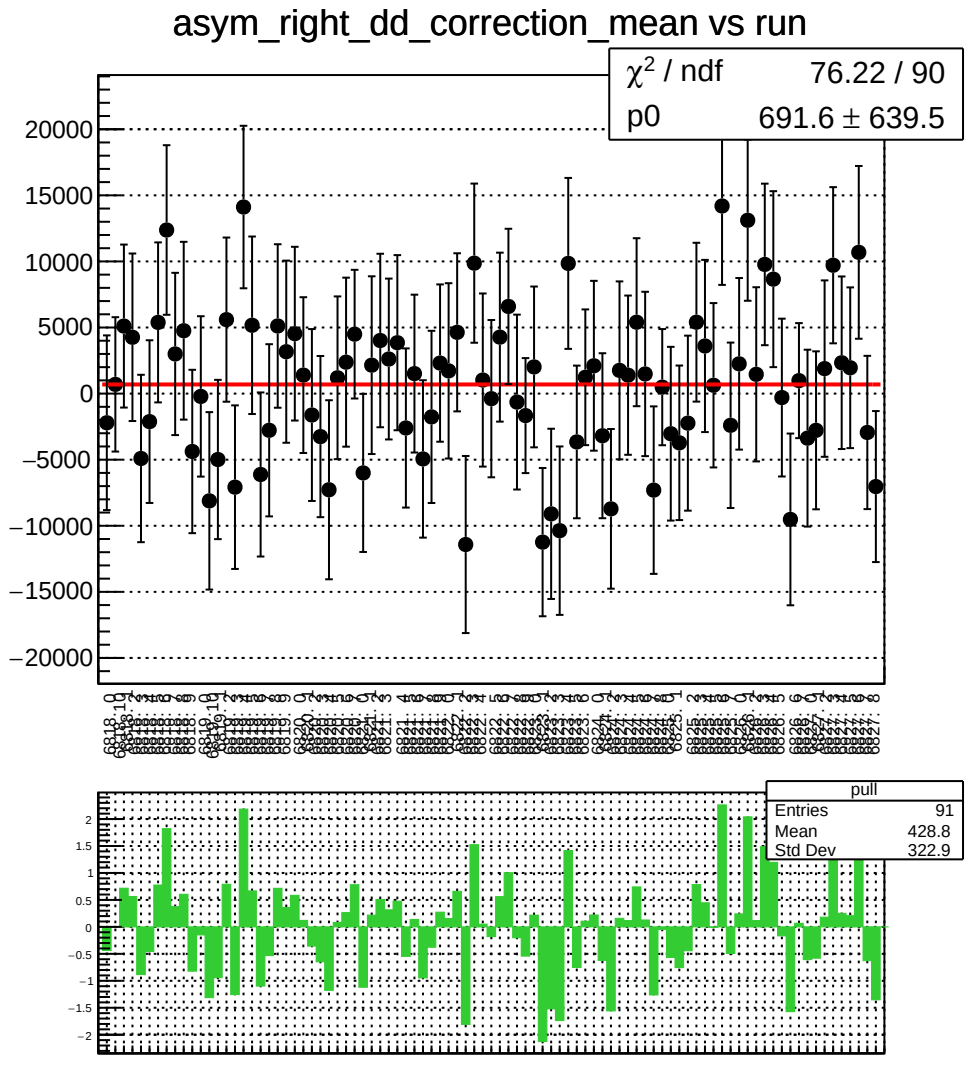

pull1D
Entries 91
Mean −0.003131
Std Dev 0.8924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

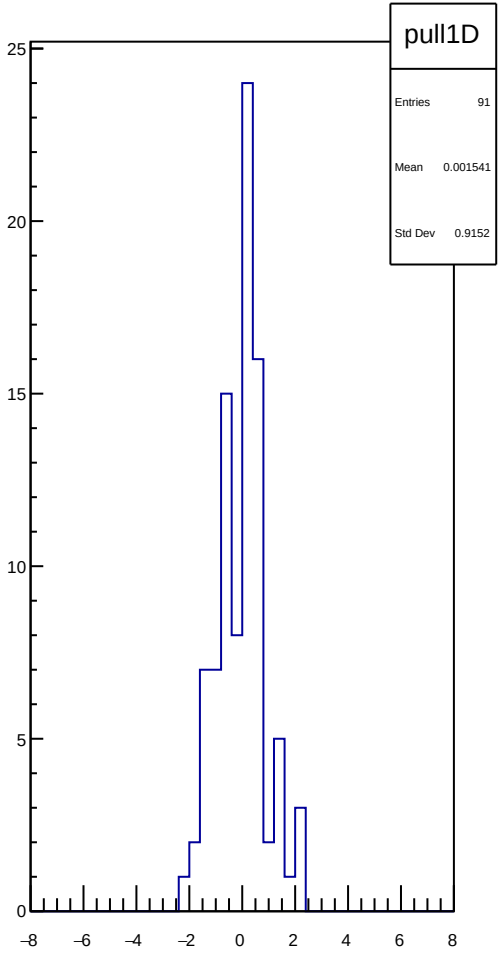

asym_right_avg_rms vs run
χ² / ndf 1430 / 90
p0 810.8 ± 0.6167
950
900
850
800
750

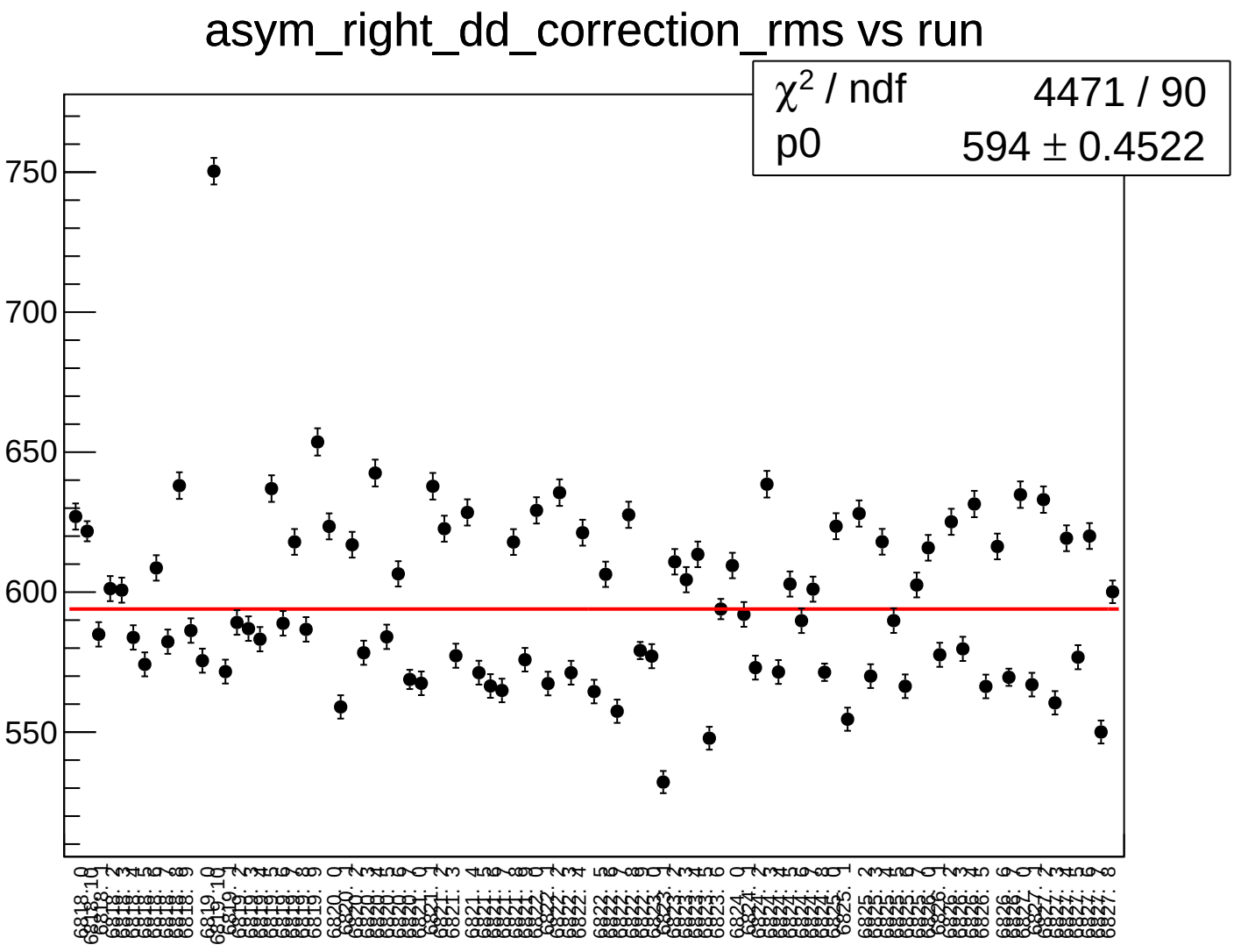

reg_asym_right_dd_mean vs run
χ² / ndf 83.16 / 90
p0 −893 ± 592.3
pull
Entries 91
Mean 2002
Std Dev 1983

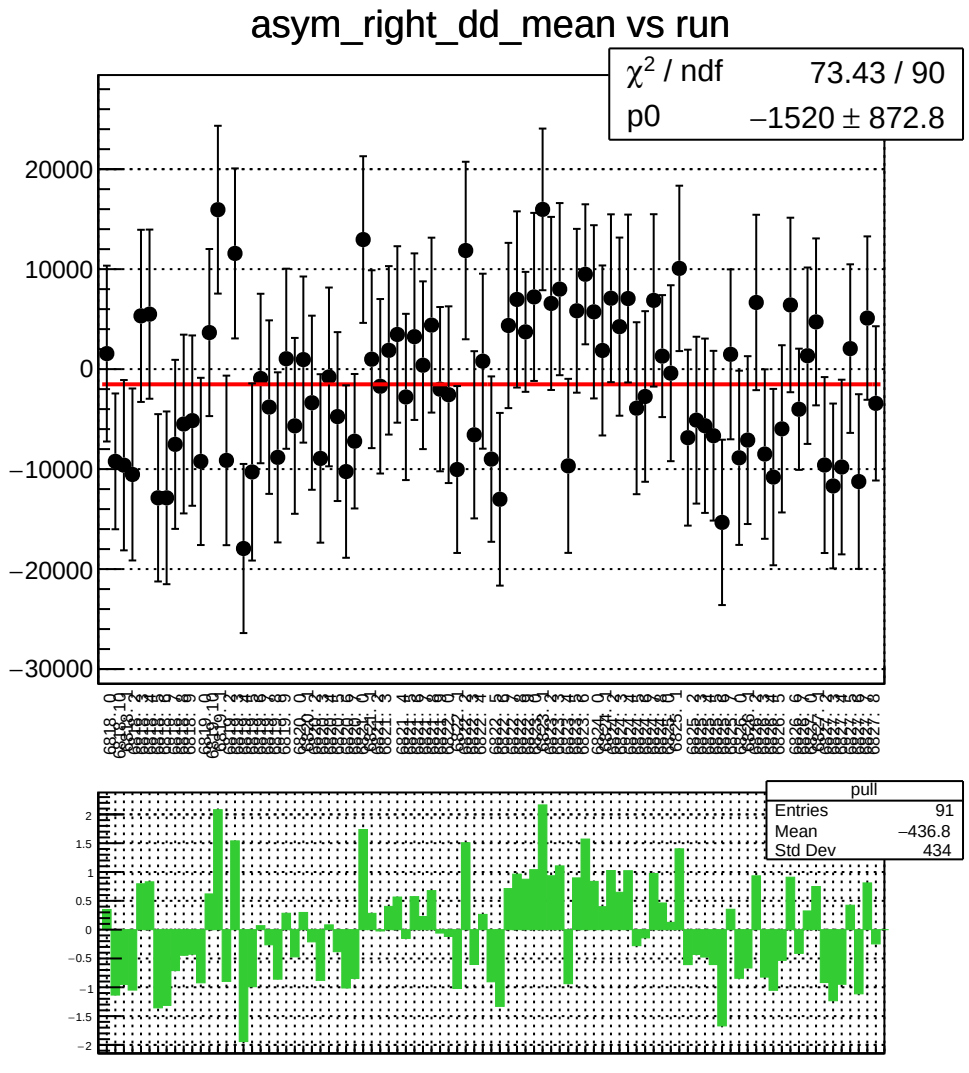

pull1D
Entries 91
Mean 0.001725
Std Dev 0.956

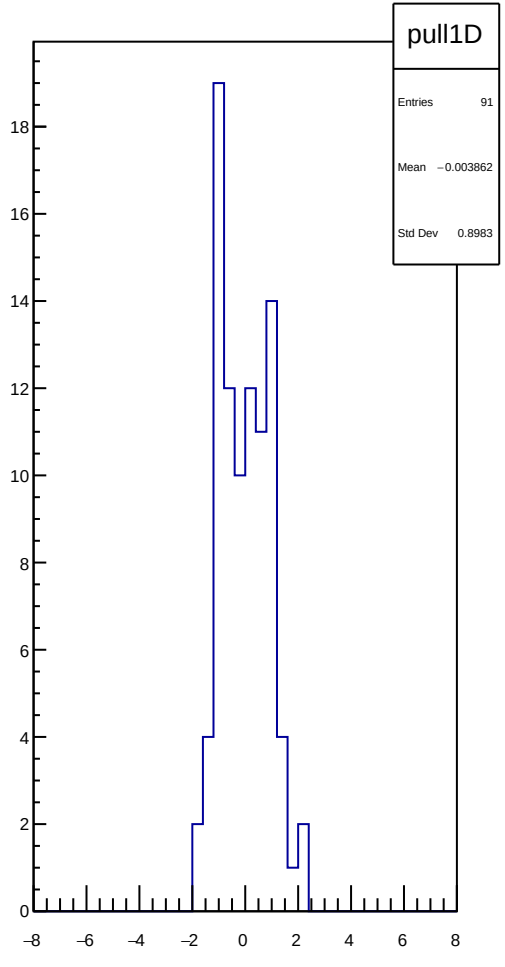

reg_asym_right_dd_rms vs run
χ² / ndf 71.88 / 90
p0 550.9 ± 0.4188
565
560
555
550
545
540

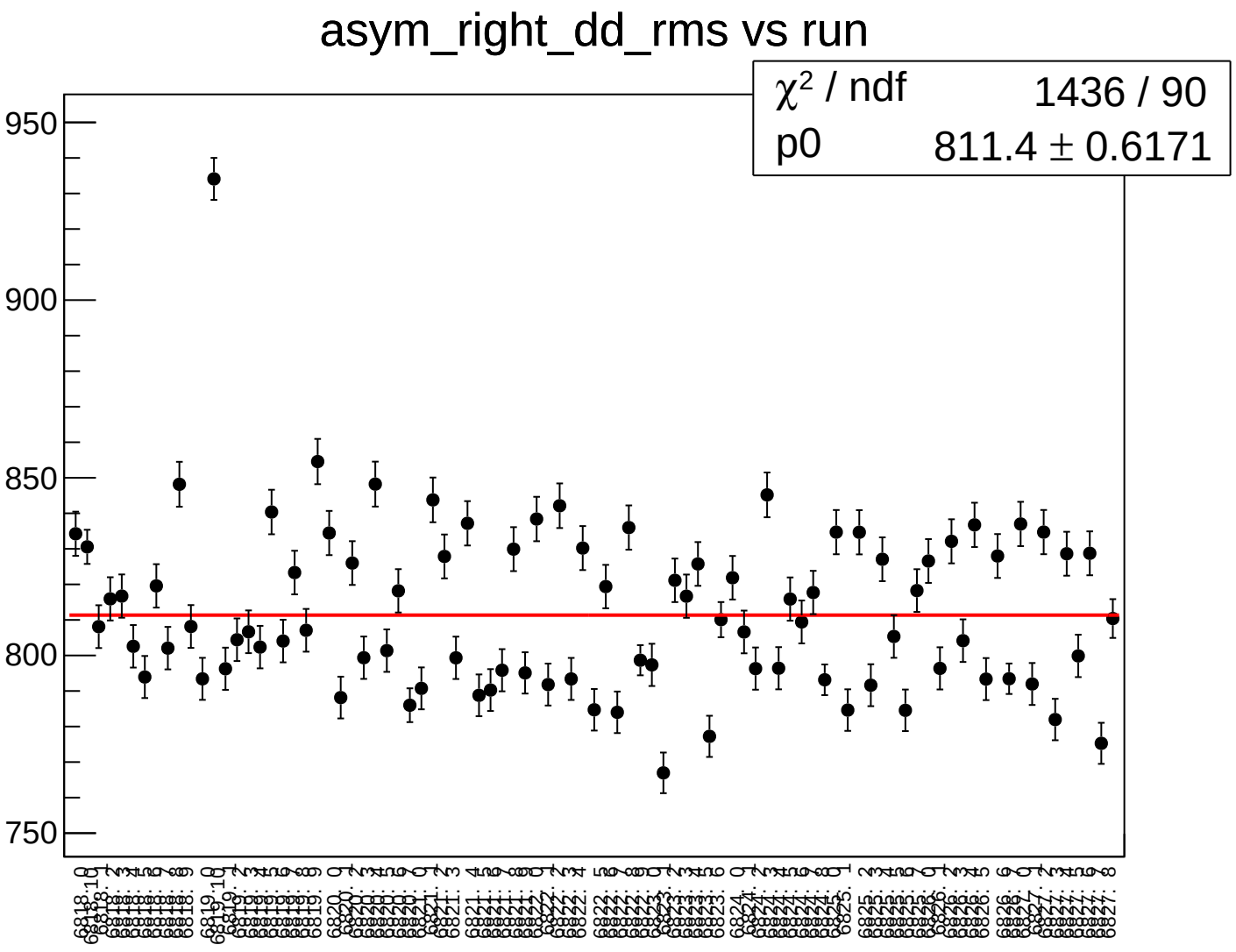

asym_right_dd_correction_mean vs run
χ² / ndf 76.22 / 90
p0 691.6 ± 639.5
pull
Entries 91
Mean 428.8
Std Dev 322.9

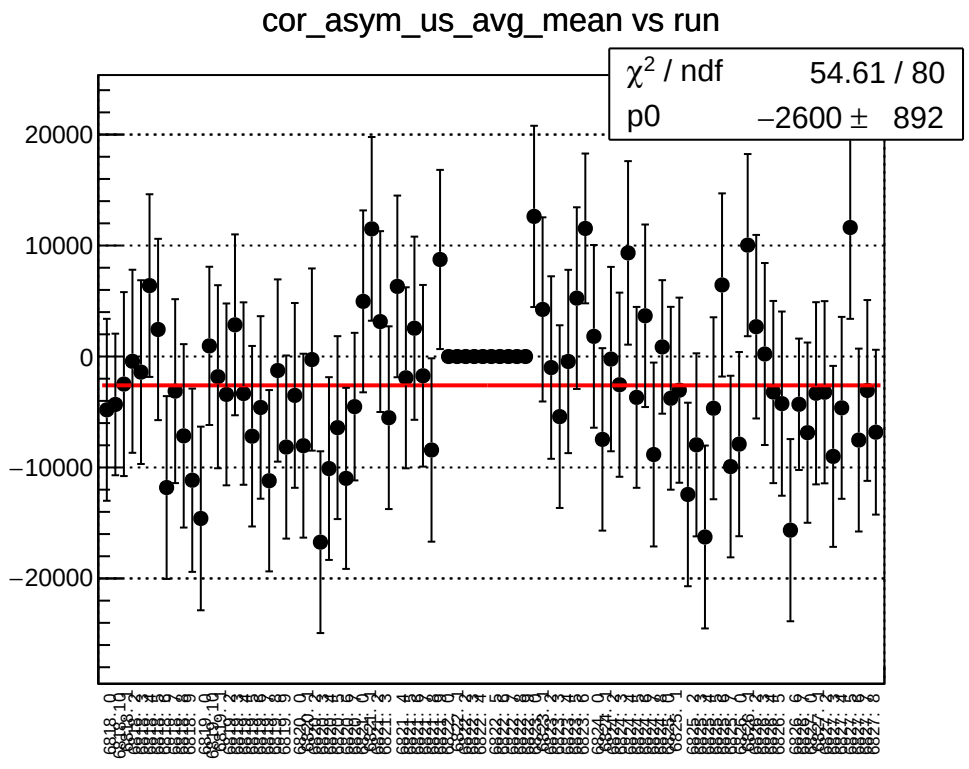

pull1D
Entries 91
Mean 0.001541
Std Dev 0.9152

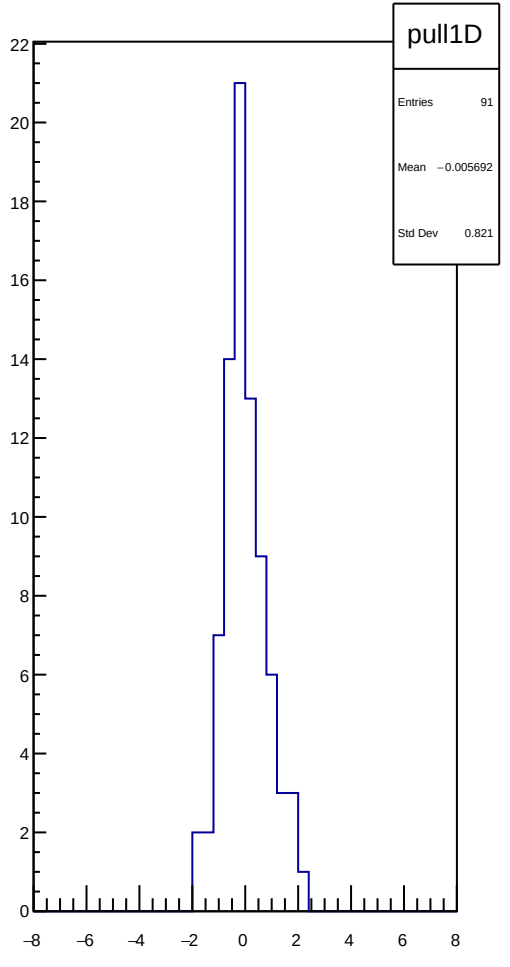

asym_right_dd_correction_rms vs run
χ² / ndf 4471 / 90
p0 594 ± 0.4522
750
700
650
600
550

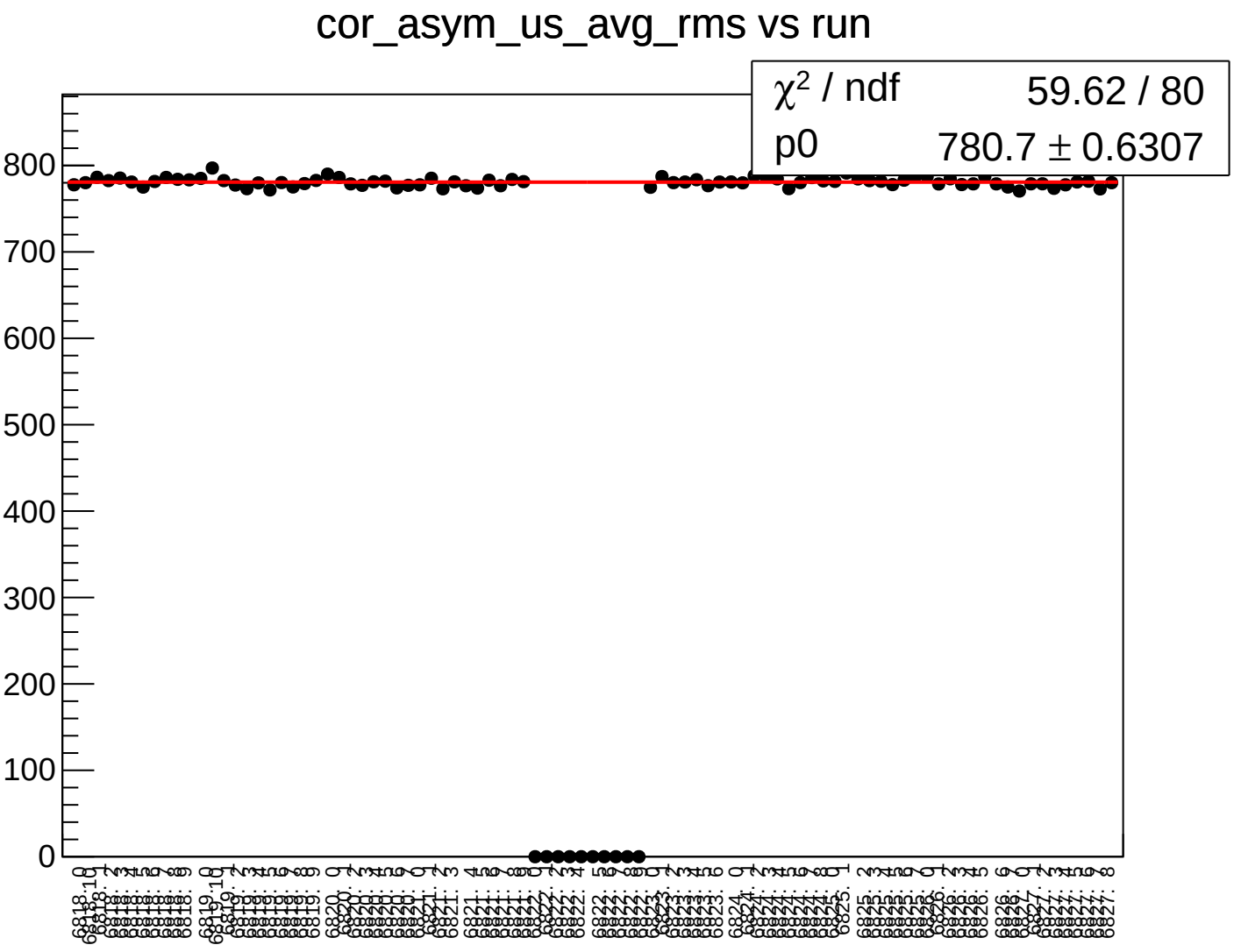

asym_right_dd_mean vs run
χ² / ndf 73.43 / 90
p0 −1520 ± 872.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −436.8
Std Dev 434
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

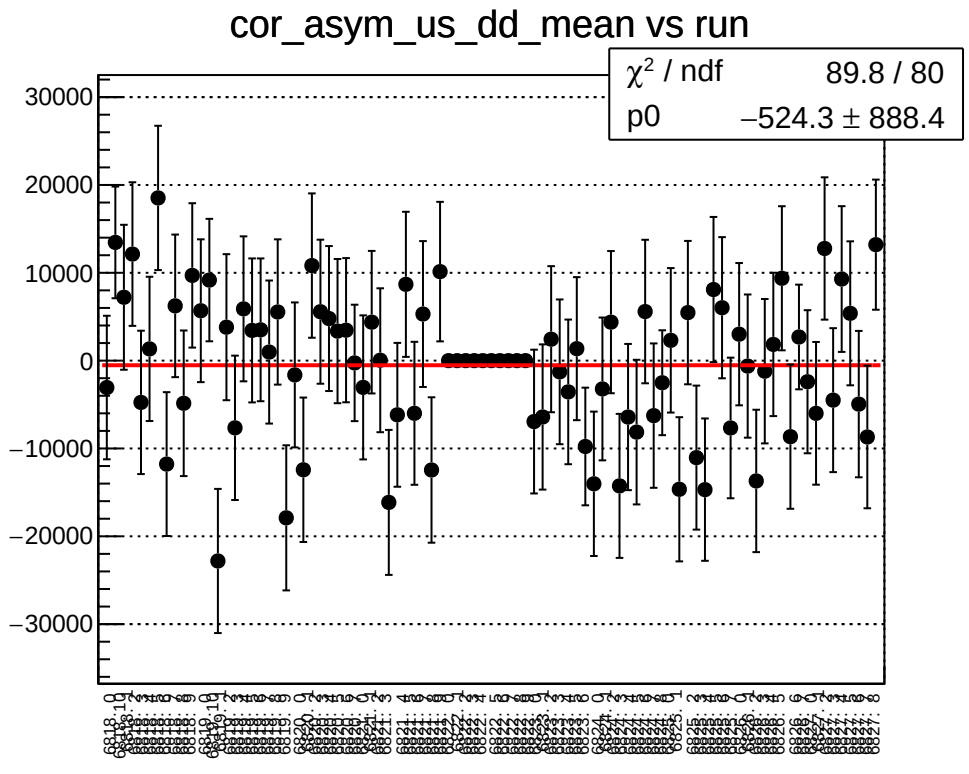

pull1D
Entries 91
Mean −0.003862
Std Dev 0.8983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

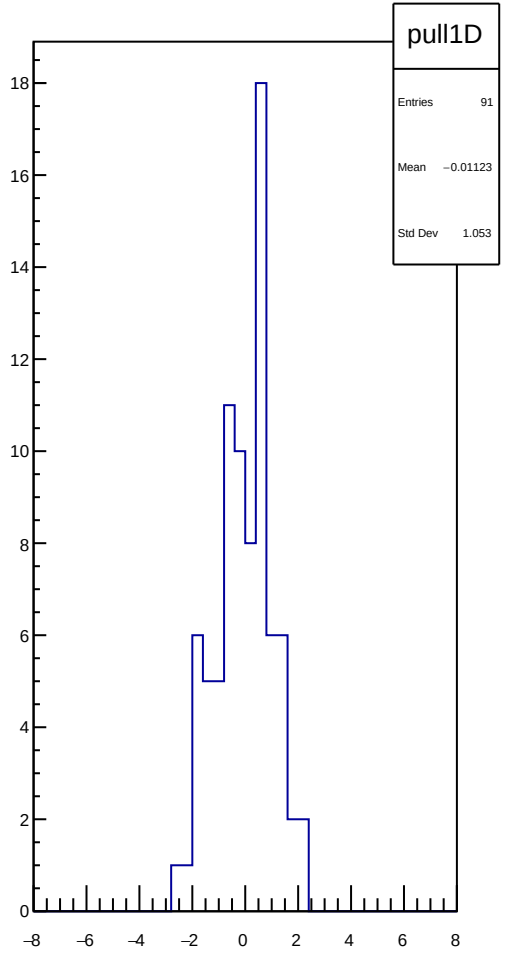

asym_right_dd_rms vs run
χ² / ndf 1436 / 90
p0 811.4 ± 0.6171
950
900
850
800
750

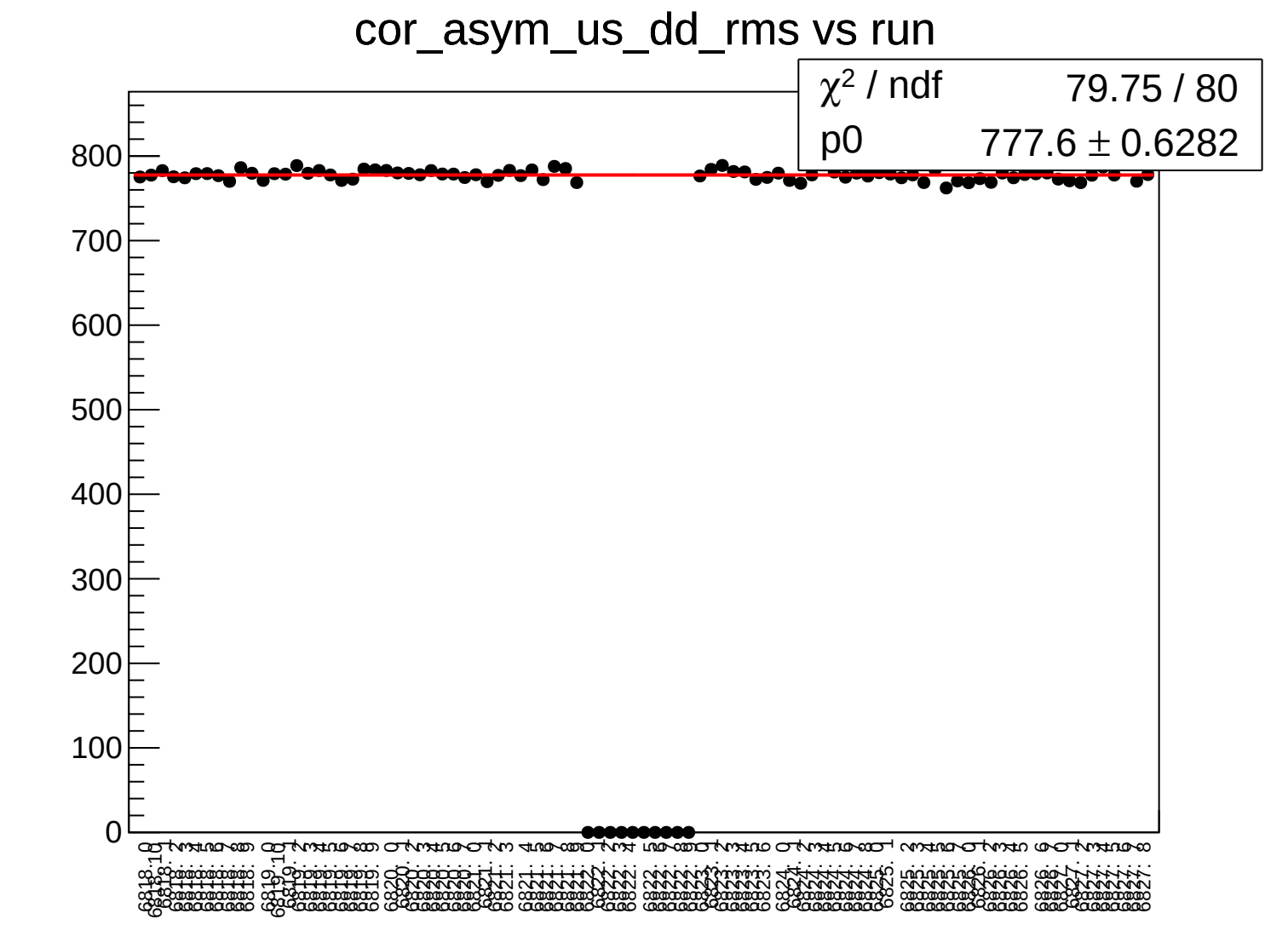

cor_asym_us_avg_mean vs run
χ² / ndf 54.61 / 80
p0 −2600 ± 892
20000
10000
0
−10000
−20000

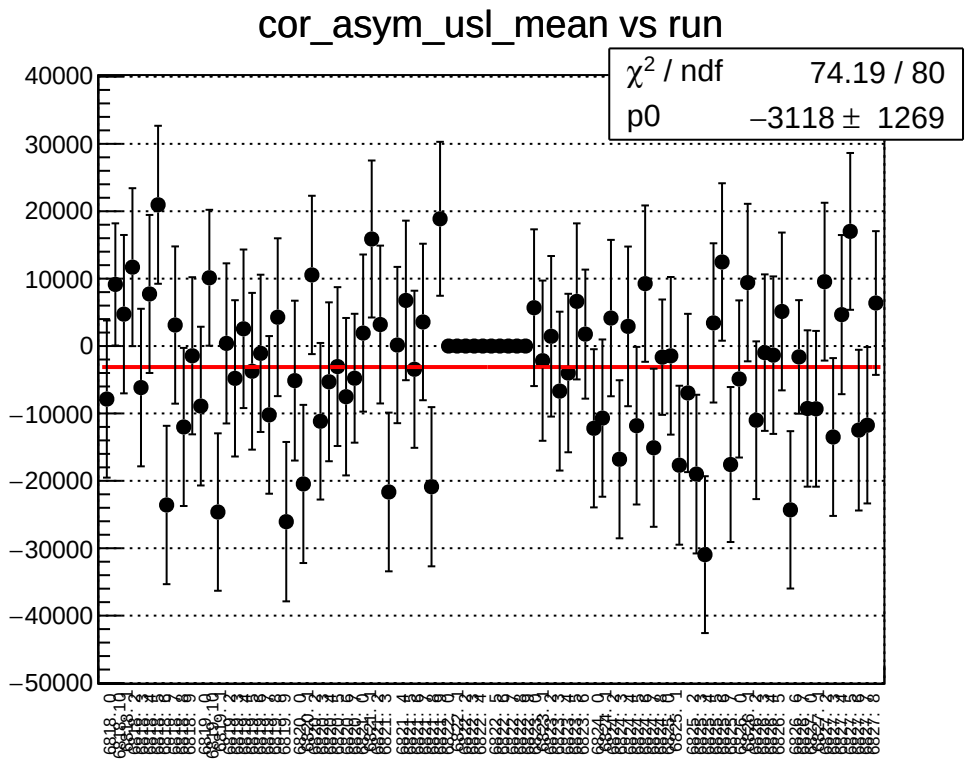

pull1D
Entries 91
Mean −0.005692
Std Dev 0.821
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

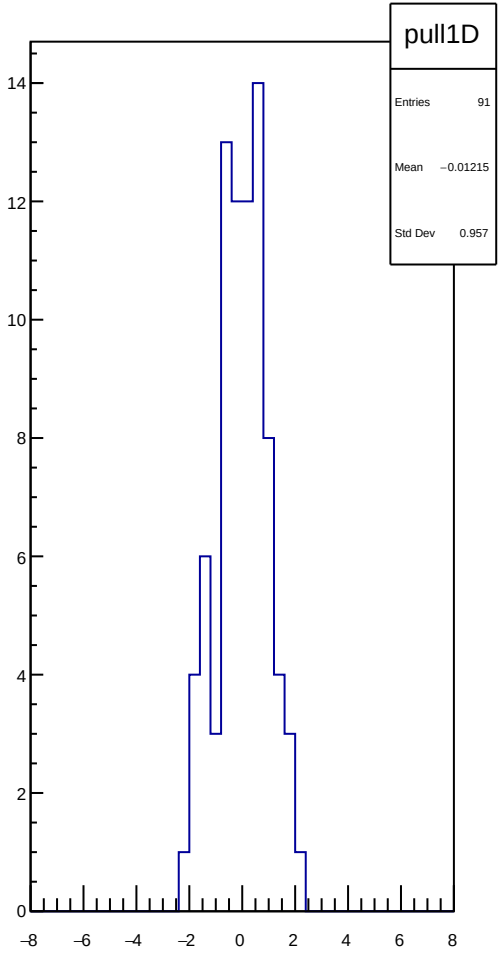

cor_asym_us_avg_rms vs run
χ² / ndf 59.62 / 80
p0 780.7 ± 0.6307
800
700
600
500
400
300
200
100
0

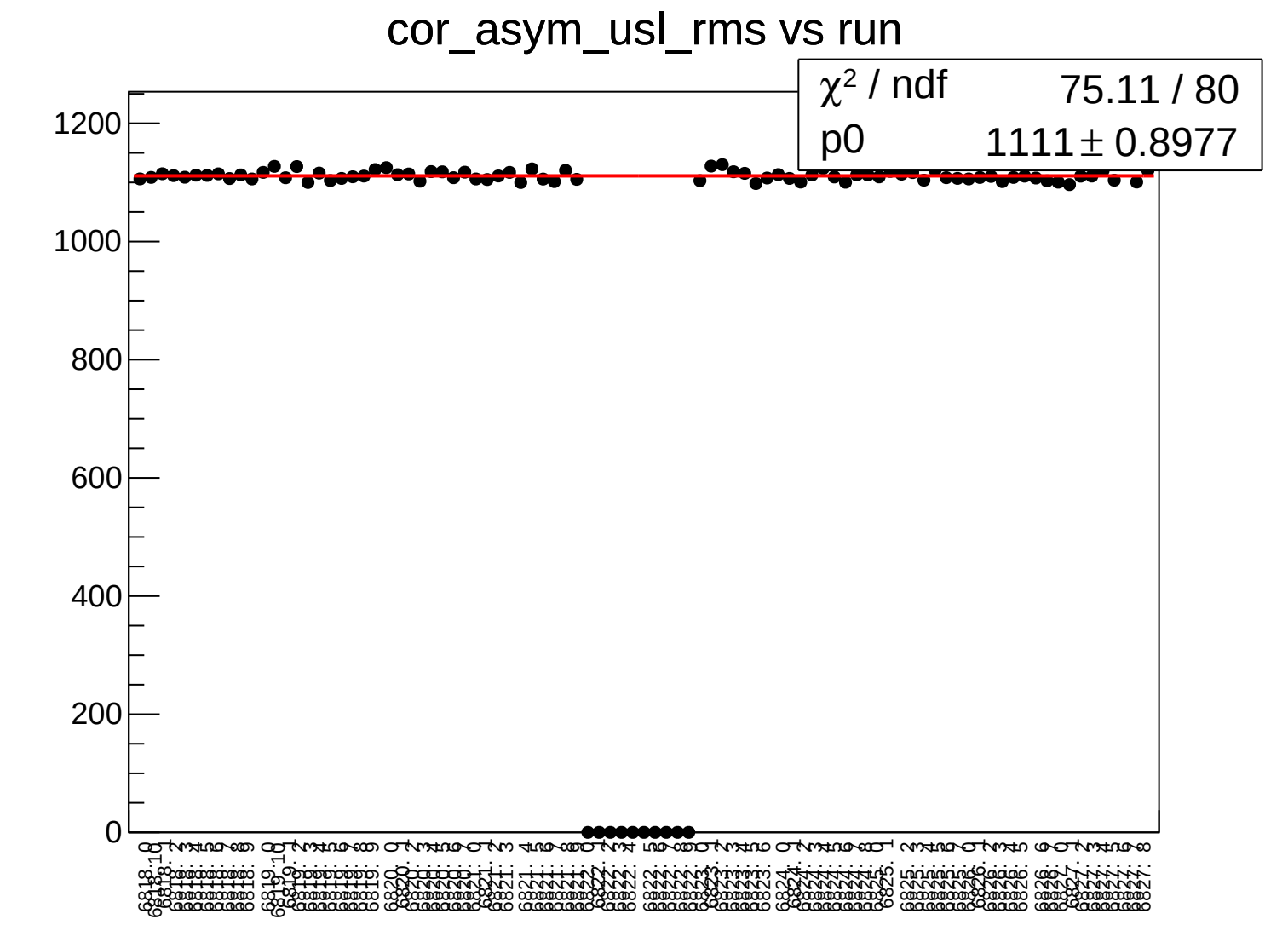

cor_asym_us_dd_mean vs run
χ² / ndf 89.8 / 80
p0 −524.3 ± 888.4
30000
20000
10000
0
−10000
−20000
−30000

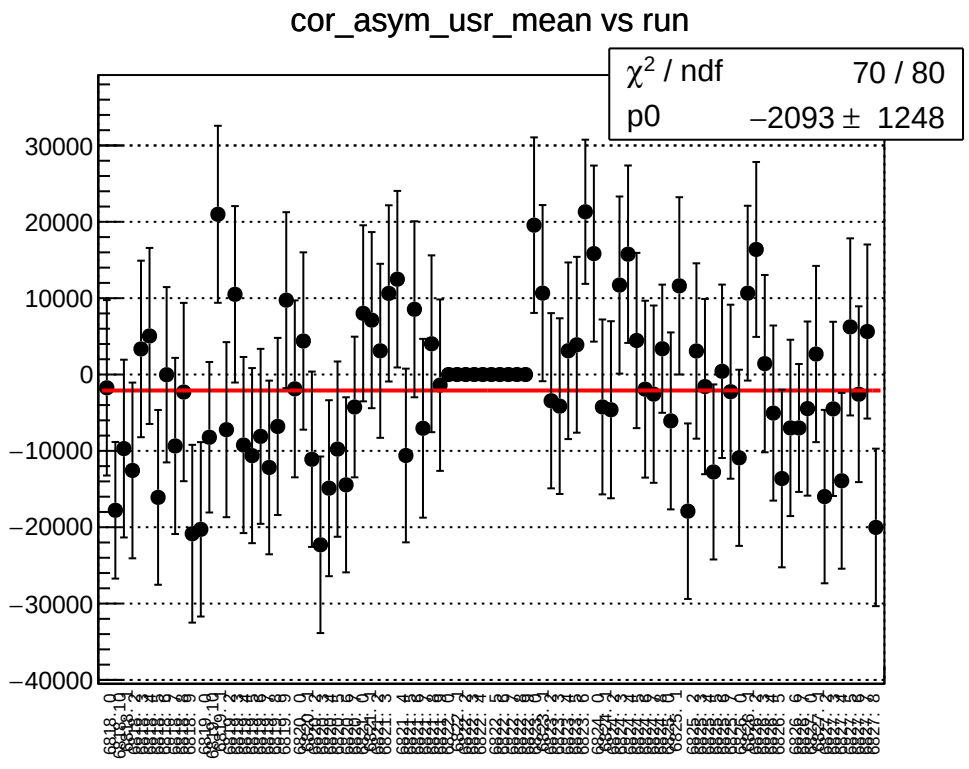

pull1D
Entries 91
Mean −0.01123
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

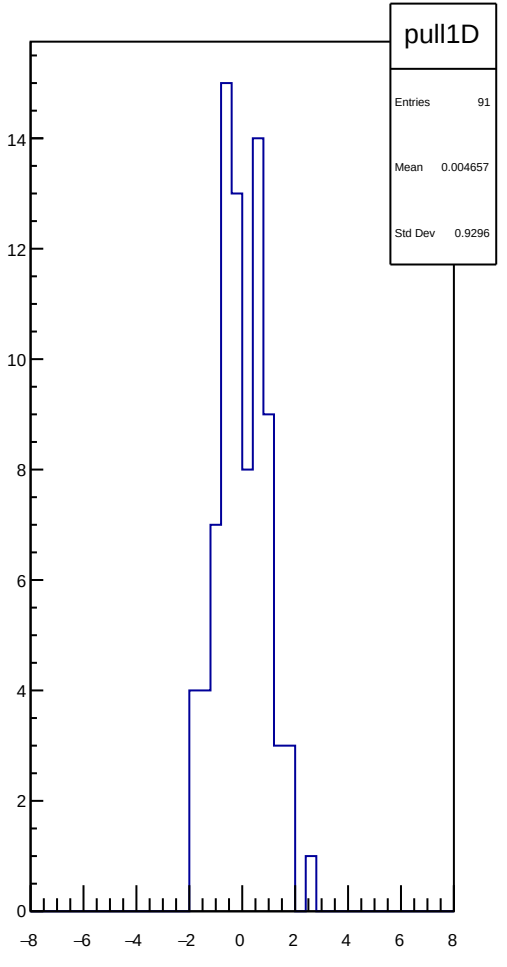

cor_asym_us_dd_rms vs run
χ^2 / ndf 79.75 / 80
p0 777.6 ± 0.6282
800
700
600
500
400
300
200
100
0

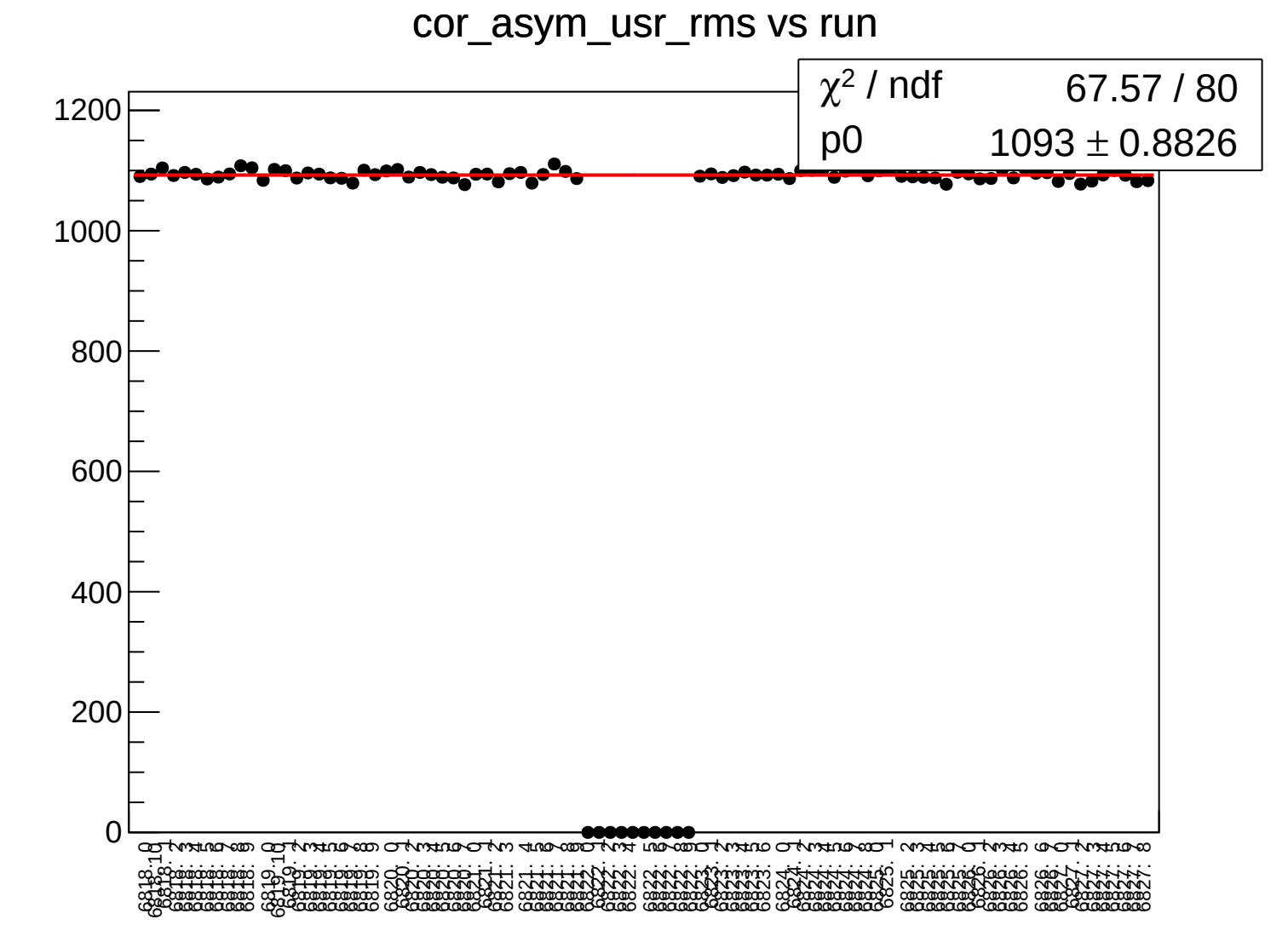

cor_asym_usl_mean vs run
χ^2 / ndf 74.19 / 80
p0 −3118 ± 1269
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000

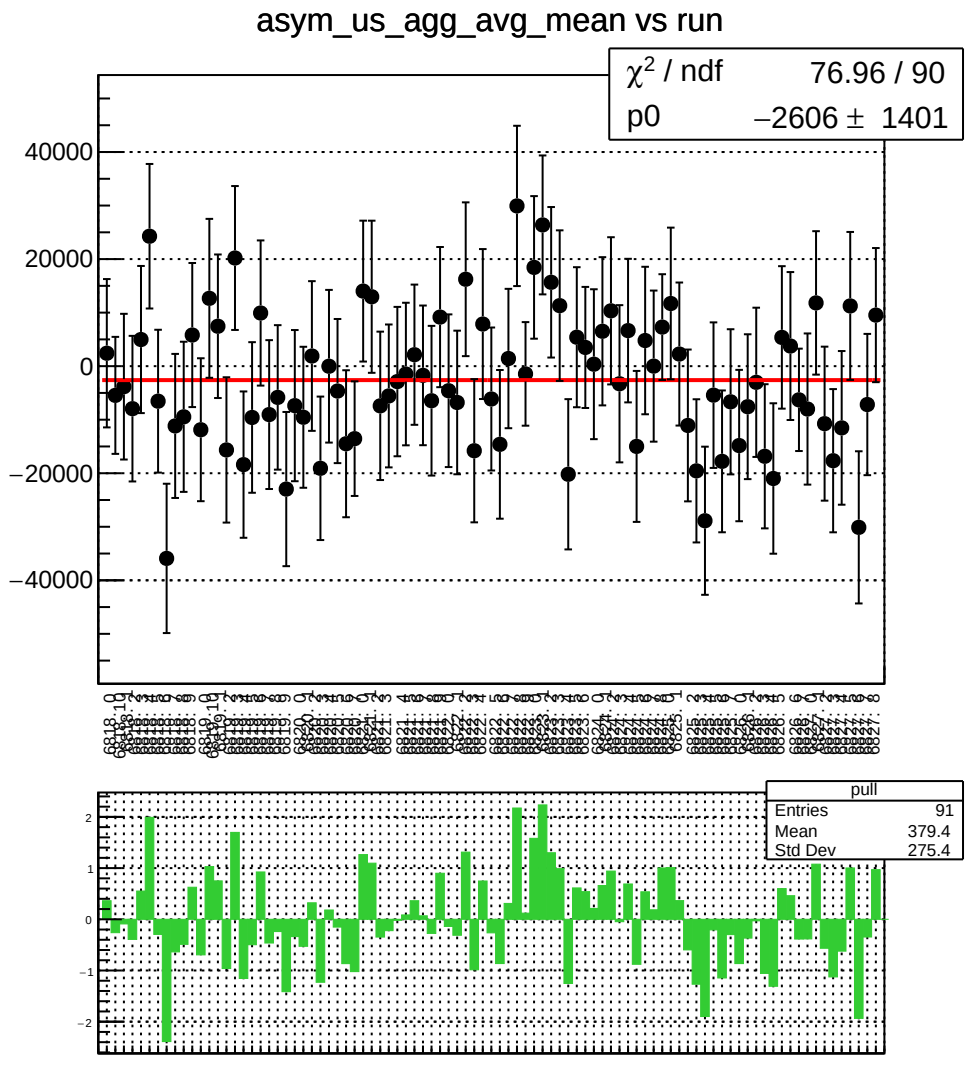

pull1D
Entries 91
Mean −0.01215
Std Dev 0.957
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

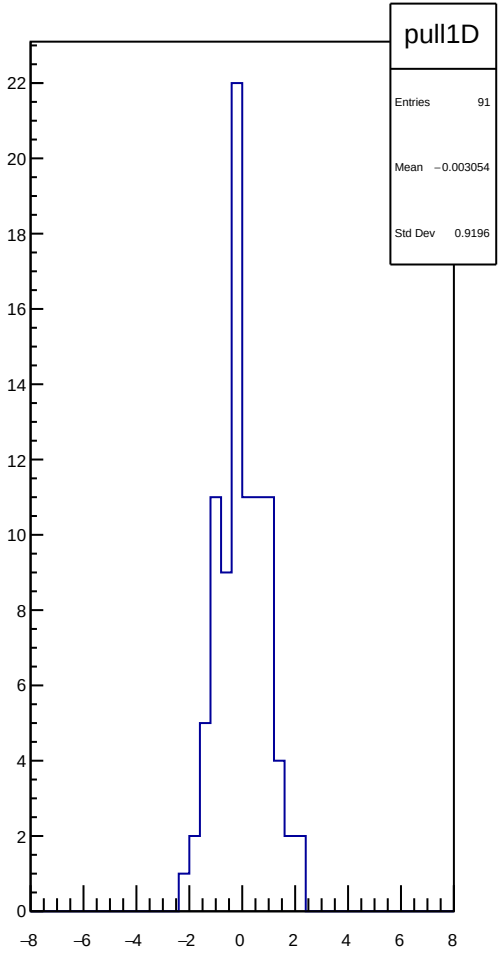

cor_asym_usl_rms vs run
χ² / ndf 75.11 / 80
p0 1111 ± 0.8977
1200
1000
800
600
400
200
0

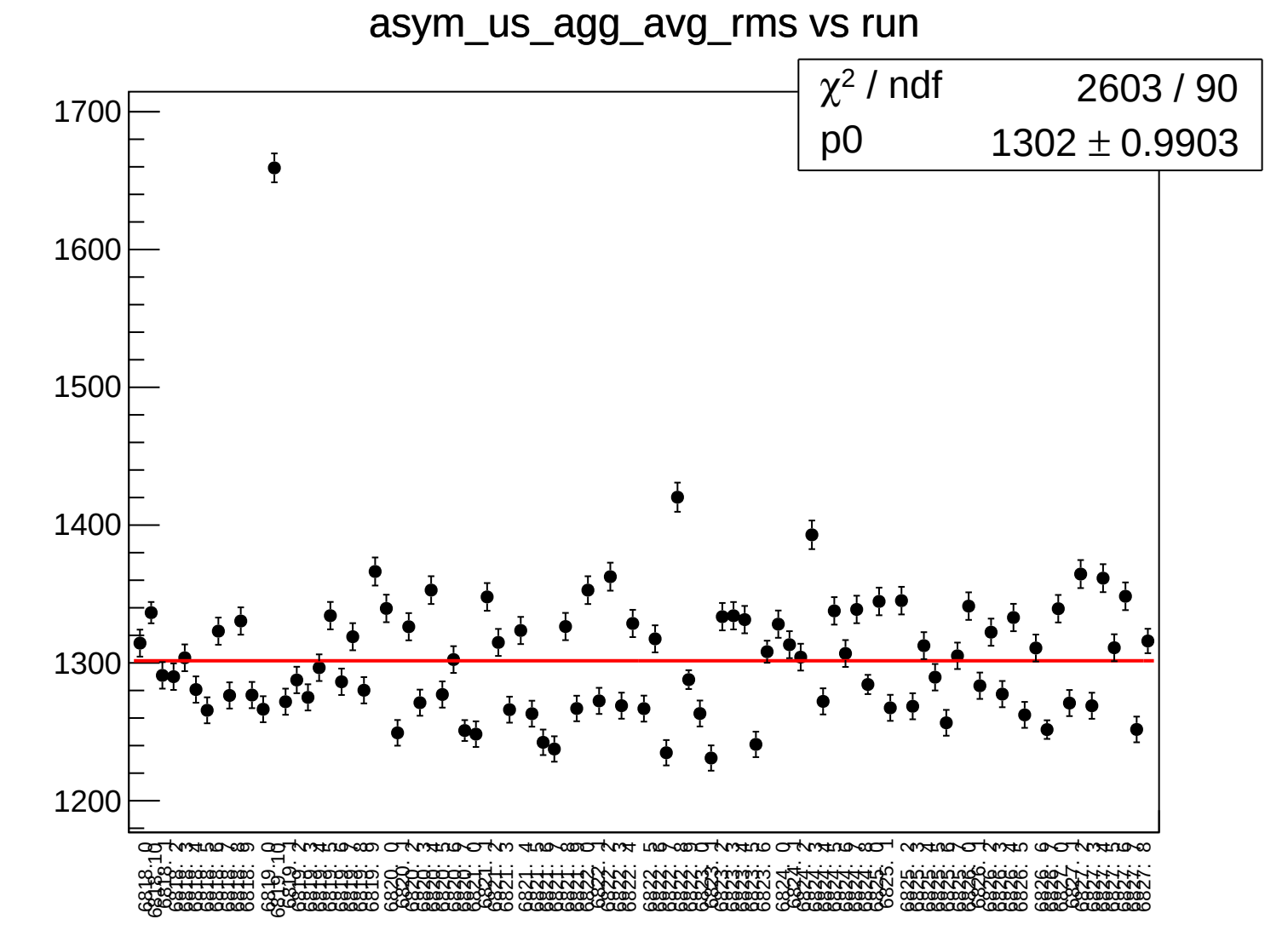

cor_asym_usr_mean vs run
χ² / ndf 70 / 80
p0 −2093 ± 1248
30000
20000
10000
0
−10000
−20000
−30000
−40000

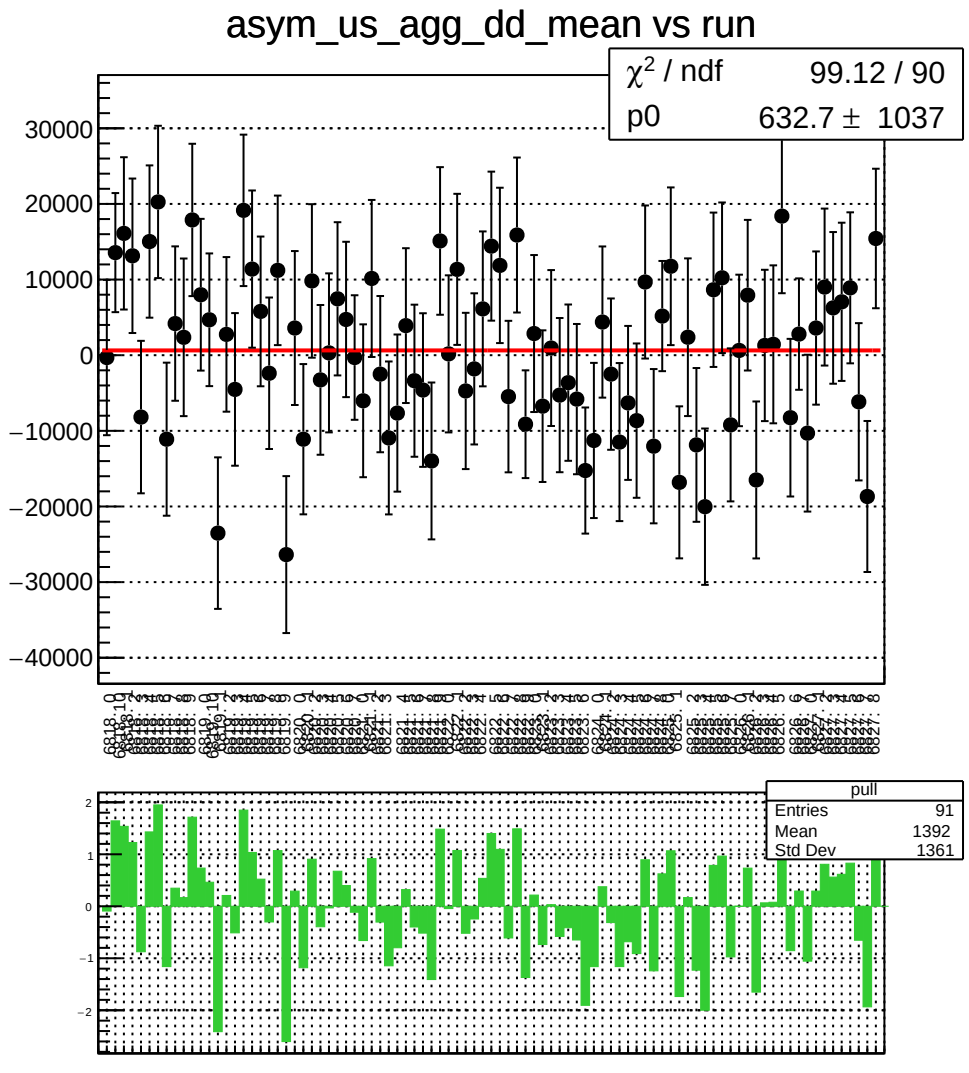

pull1D
Entries 91
Mean 0.004657
Std Dev 0.9296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

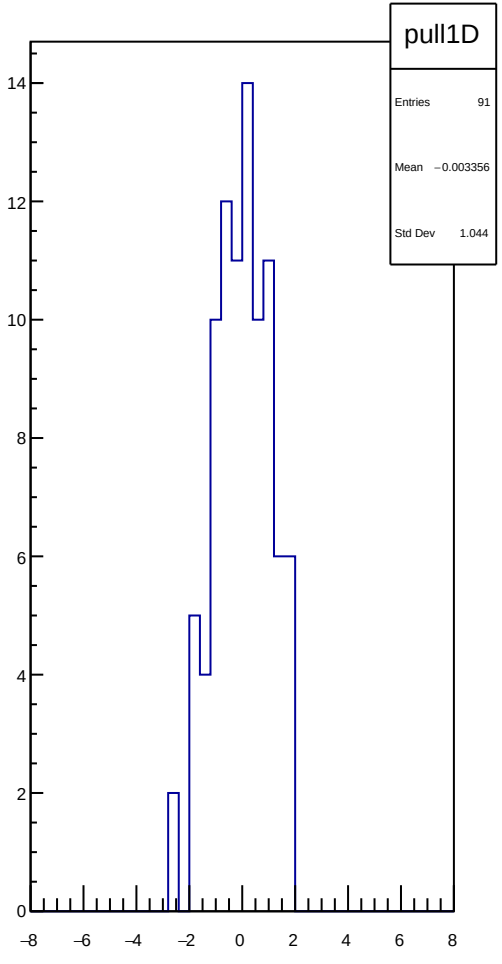

cor_asym_usr_rms vs run
χ² / ndf 67.57 / 80
p0 1093 ± 0.8826
1200
1000
800
600
400
200
0

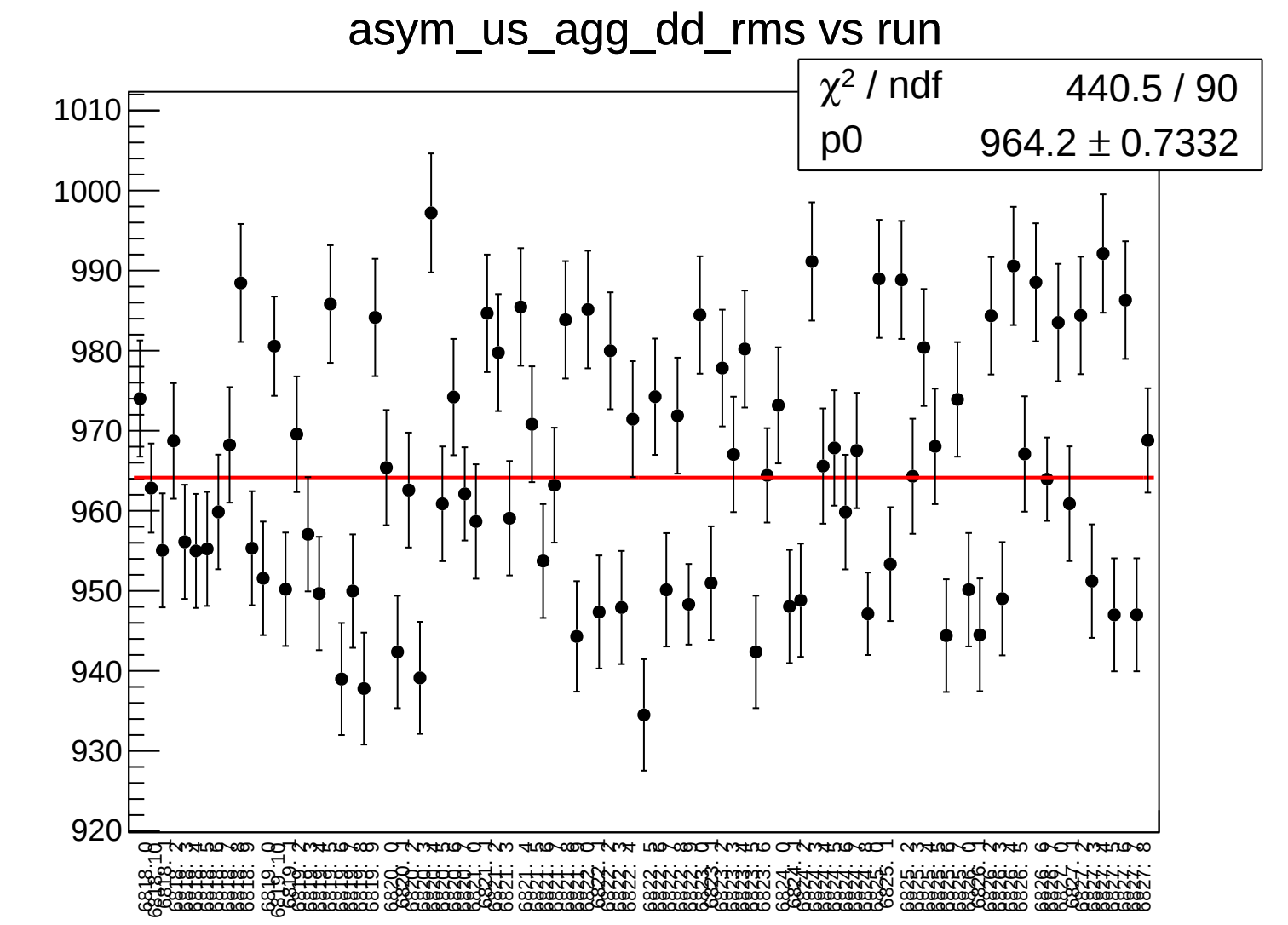

asym_us_agg_avg_mean vs run
χ² / ndf 76.96 / 90
p0 −2606 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 379.4
Std Dev 275.4
2
1
0
−1
−2

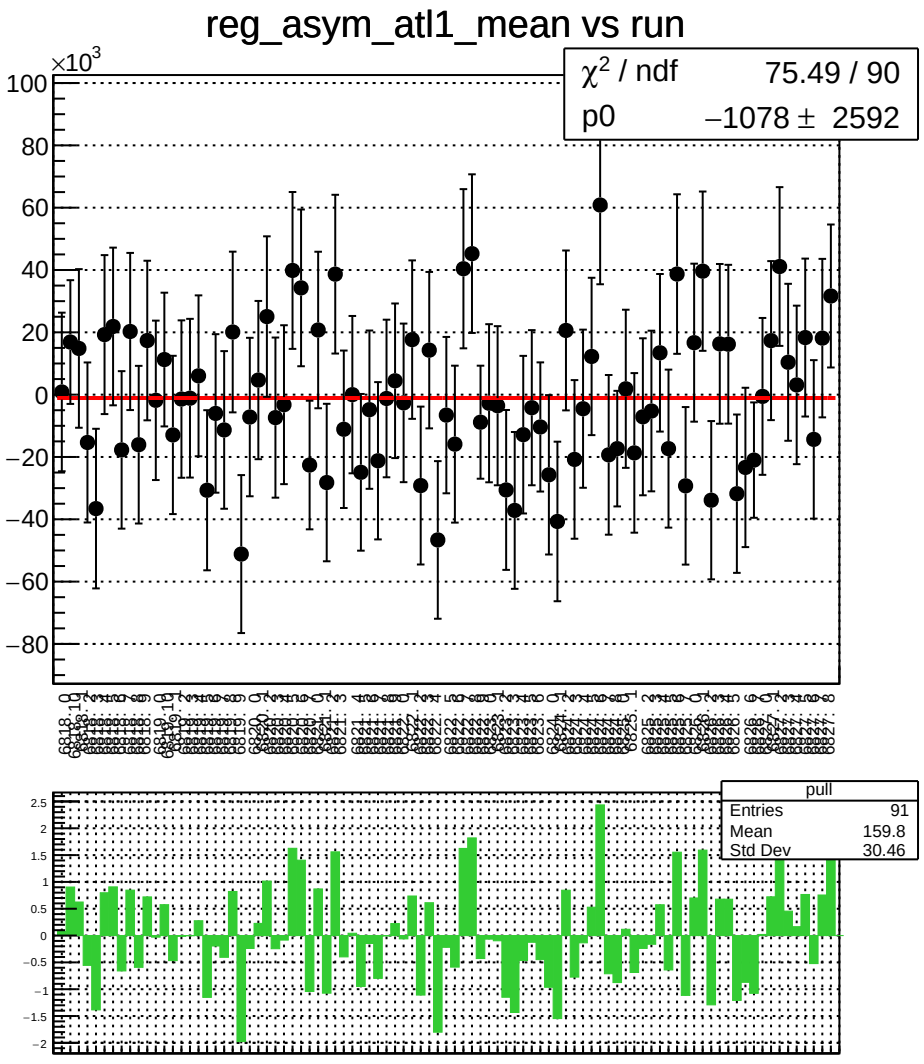

pull1D
Entries 91
Mean −0.003054
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

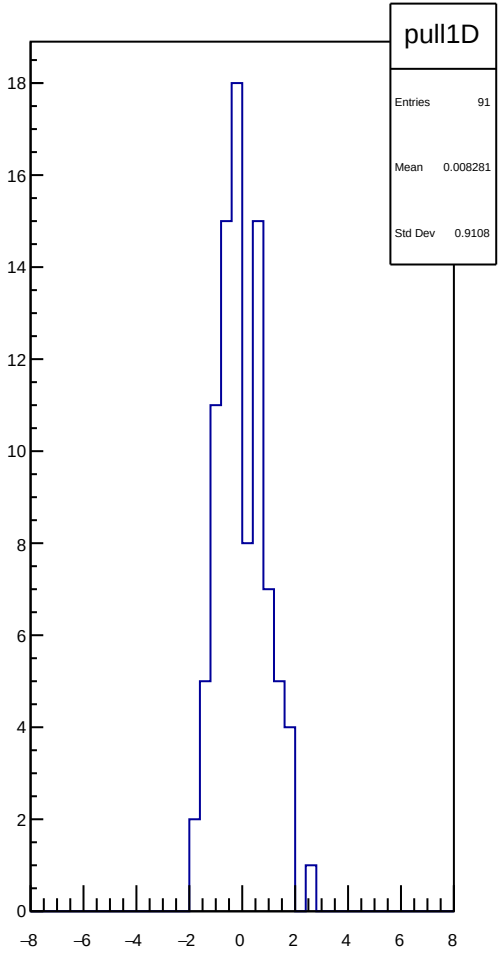

asym_us_agg_avg_rms vs run
χ² / ndf 2603 / 90
p0 1302 ± 0.9903
1700
1600
1500
1400
1300
1200

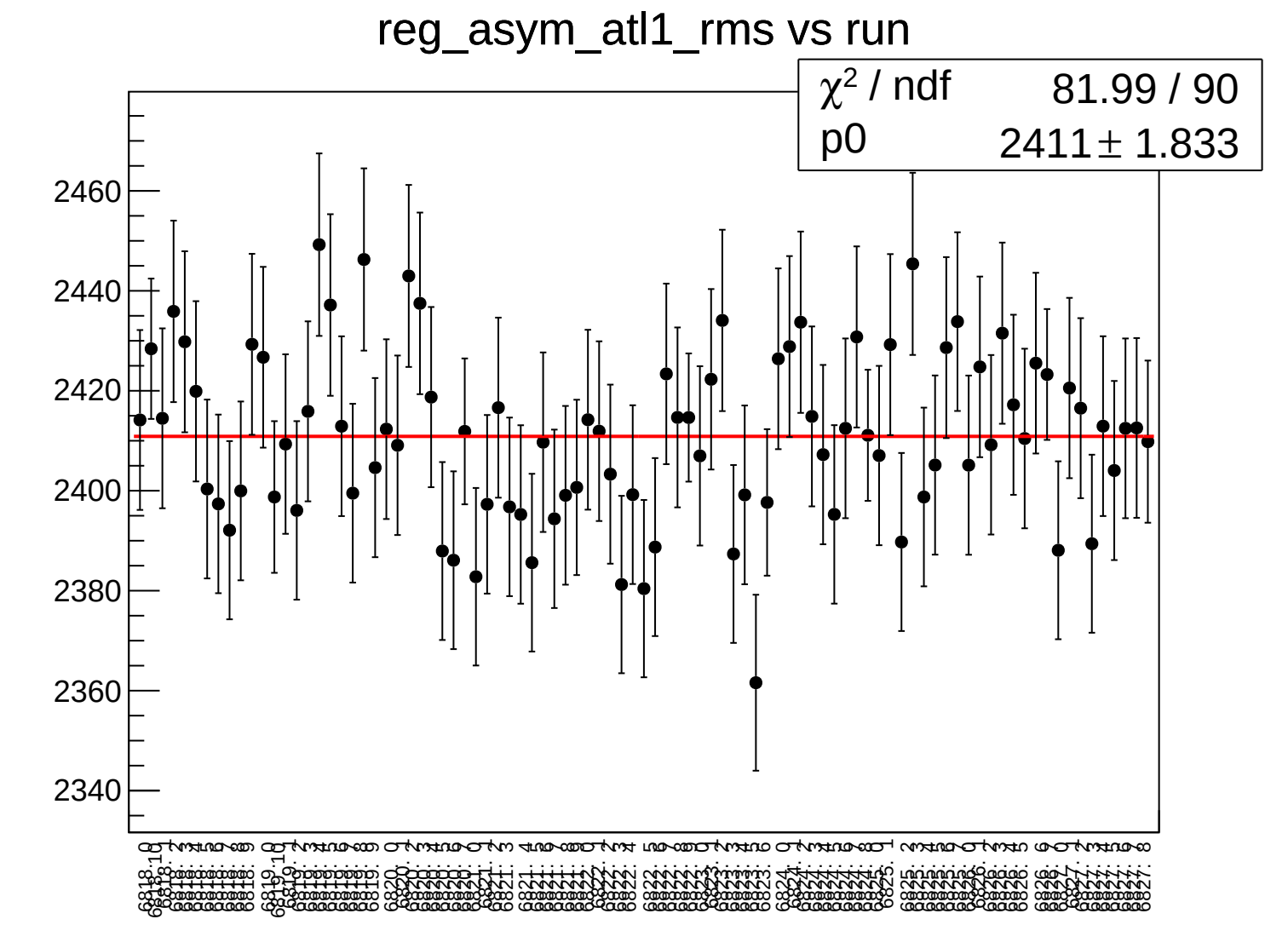

asym_us_agg_dd_mean vs run
χ² / ndf 99.12 / 90
p0 632.7 ± 1037
pull
Entries 91
Mean 1392
Std Dev 1361

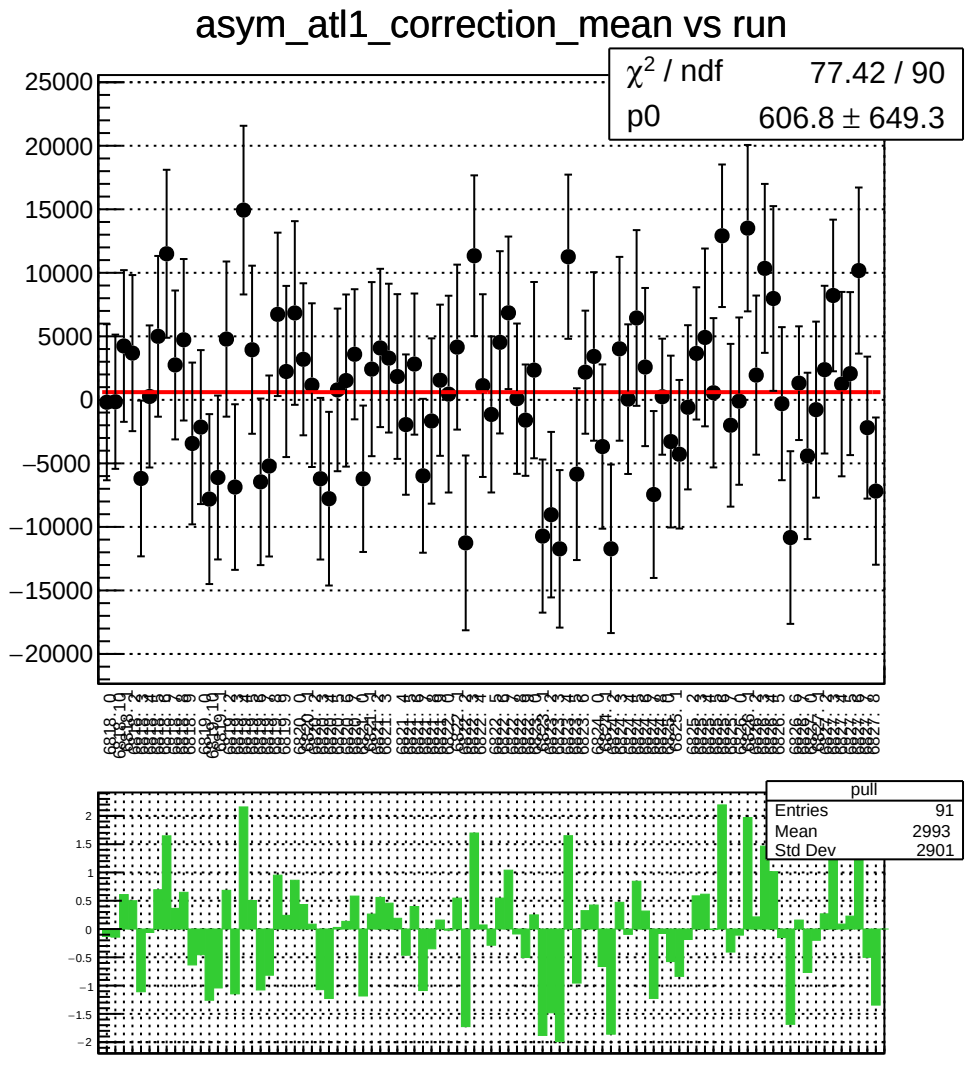

pull1D
Entries 91
Mean −0.003356
Std Dev 1.044

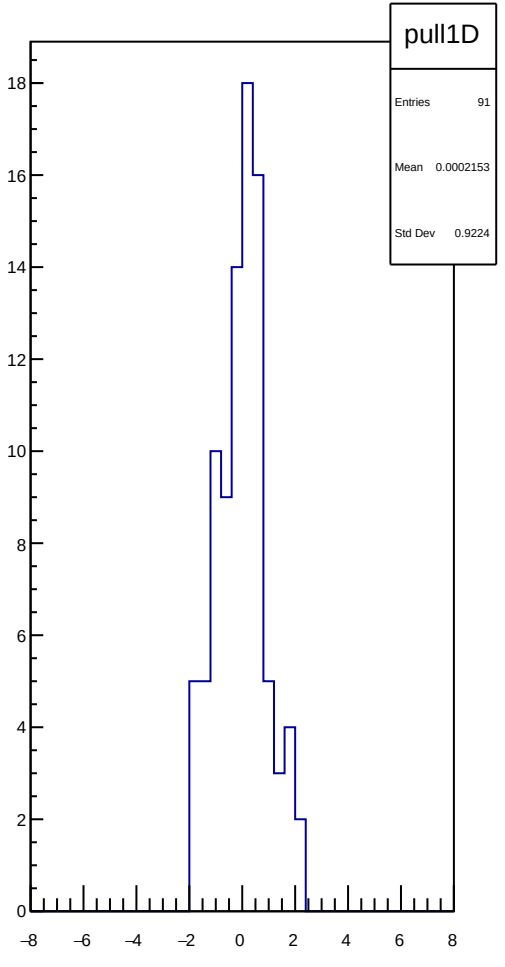

asym_us_agg_dd_rms vs run
χ^2 / ndf 440.5 / 90
p0 964.2 ± 0.7332
1010
1000
990
980
970
960
950
940
930
920

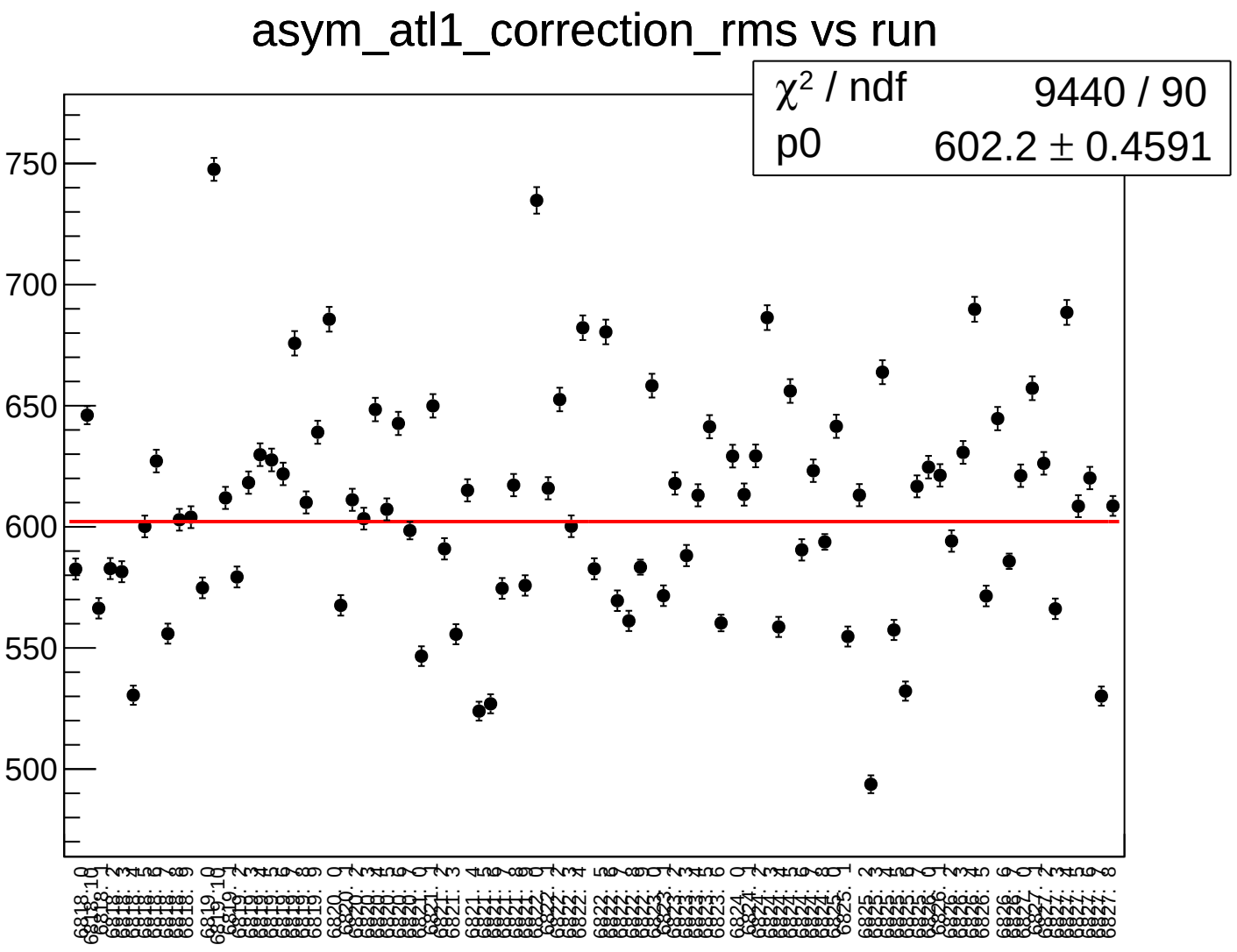

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 75.49 / 90
p0 −1078 ± 2592
pull
Entries 91
Mean 159.8
Std Dev 30.46

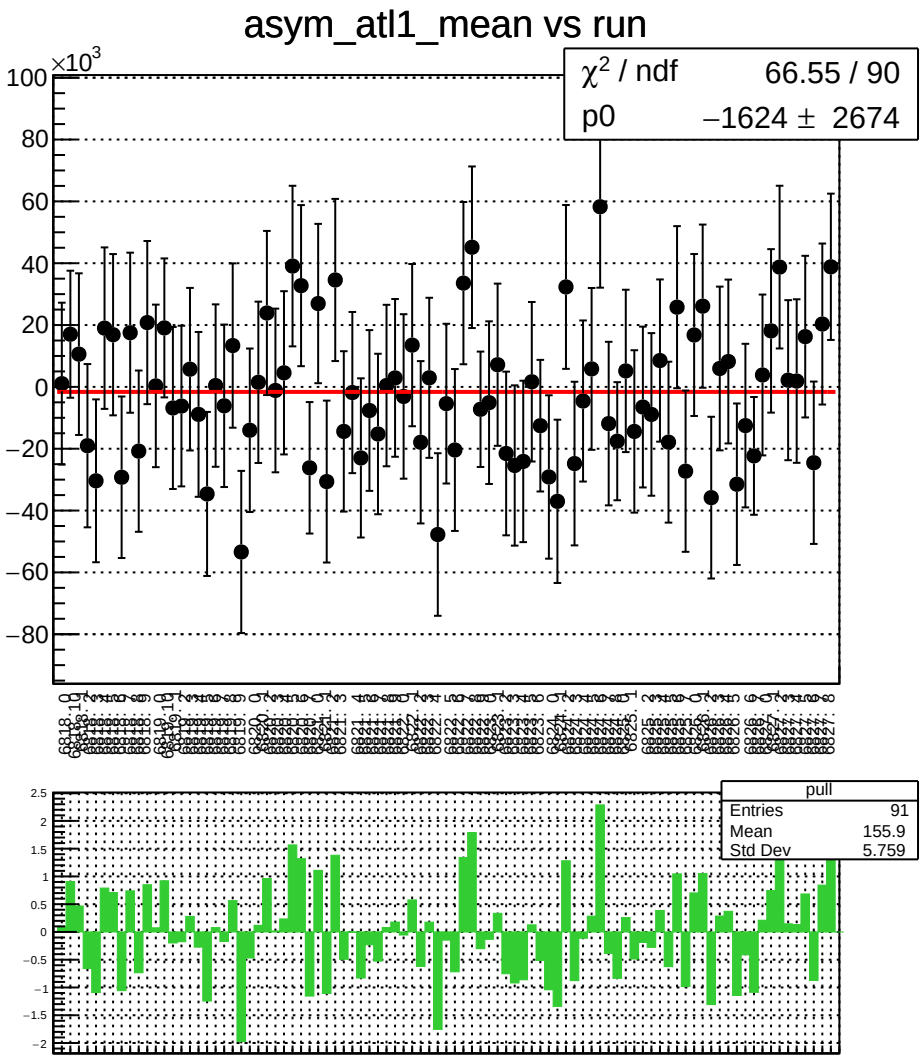

pull1D
Entries 91
Mean 0.008281
Std Dev 0.9108

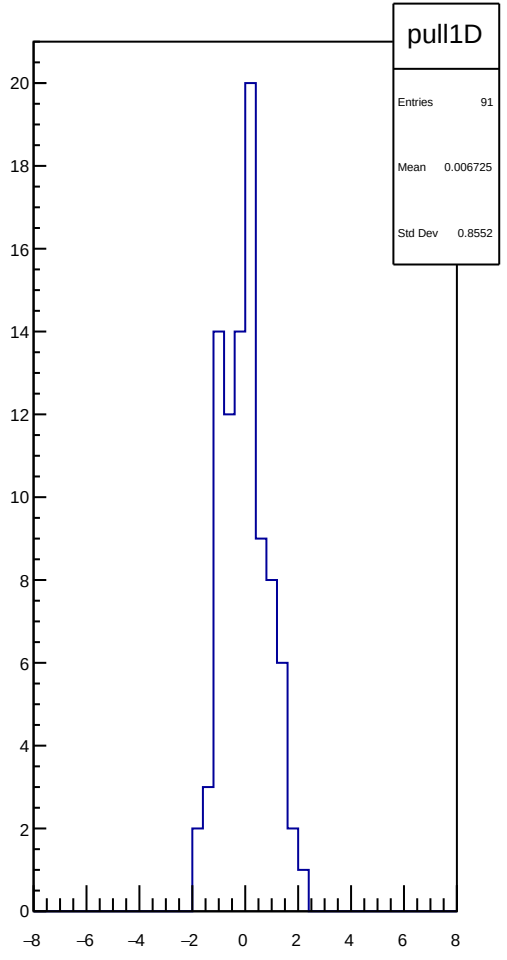

reg_asym_atl1_rms vs run
χ² / ndf 81.99 / 90
p0 2411 ± 1.833
2460
2440
2420
2400
2380
2360
2340

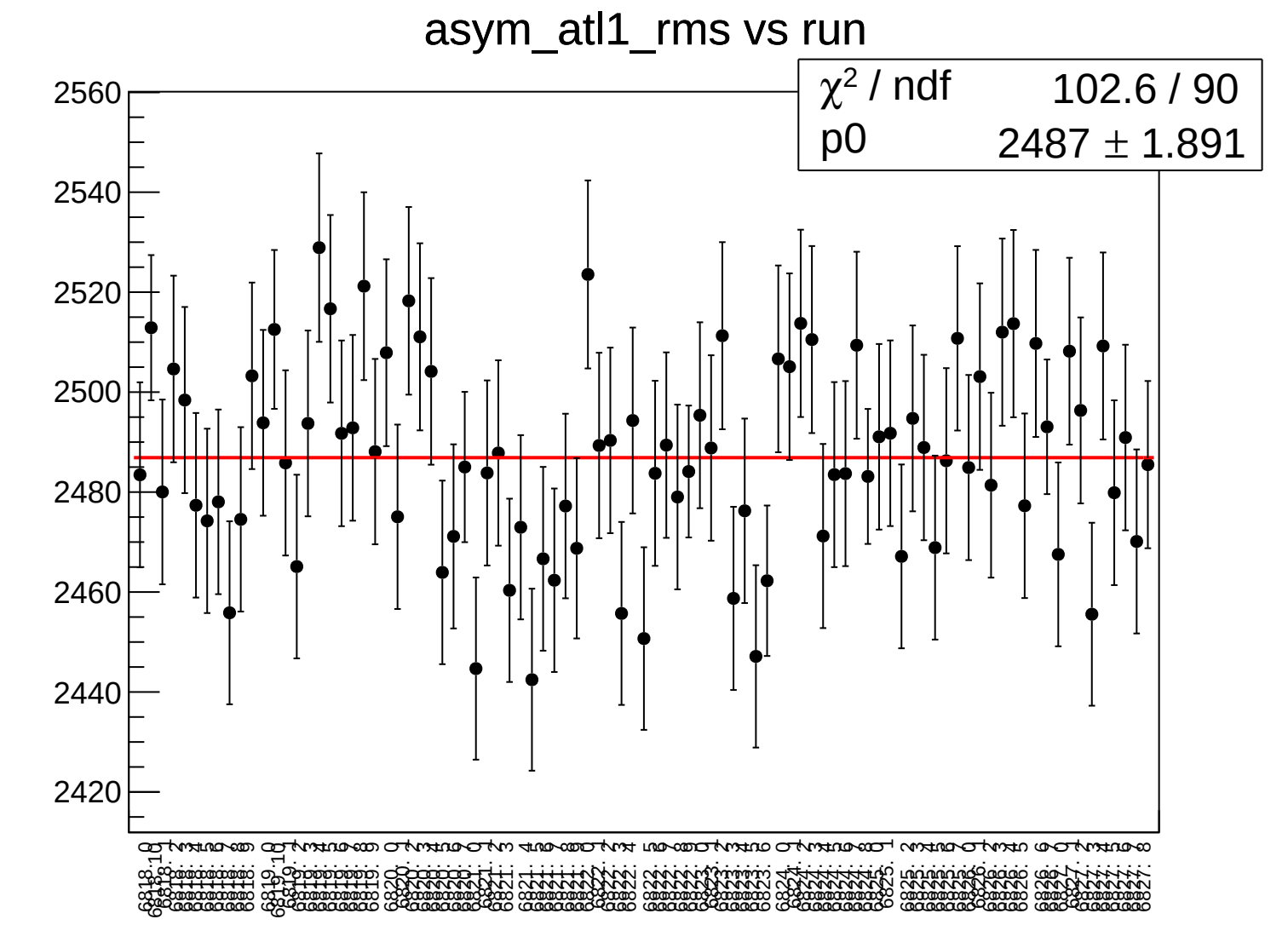

asym_atl1_correction_mean vs run
χ² / ndf 77.42 / 90
p0 606.8 ± 649.3
pull
Entries 91
Mean 2993
Std Dev 2901

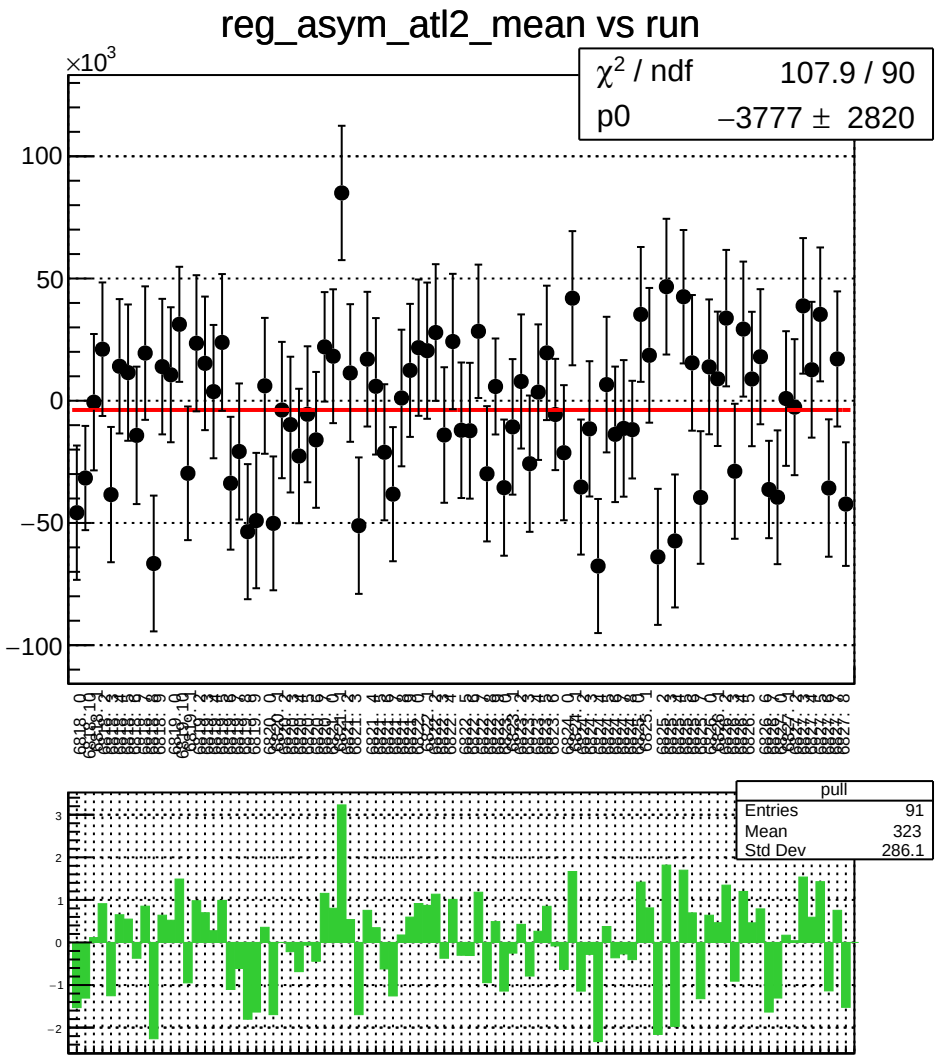

pull1D
Entries 91
Mean 0.0002153
Std Dev 0.9224

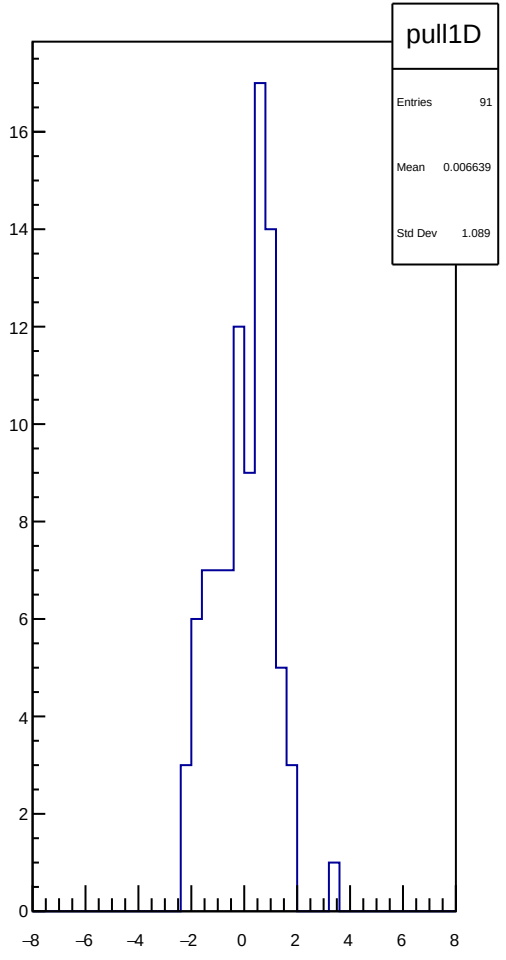

asym_atl1_correction_rms vs run
χ² / ndf 9440 / 90
p0 602.2 ± 0.4591
750
700
650
600
550
500

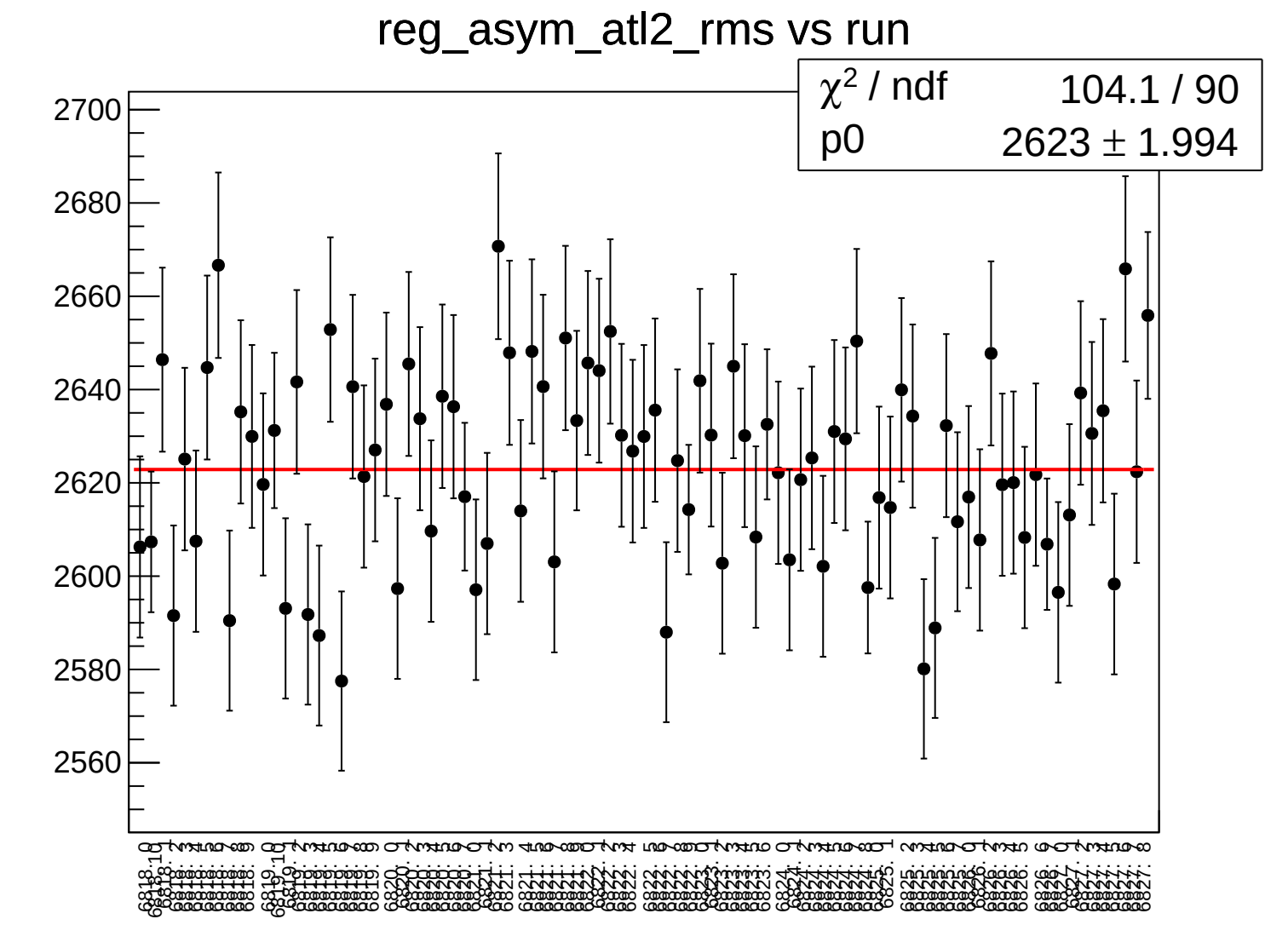

asym_atl1_mean vs run
×10^3
χ² / ndf 66.55 / 90
p0 −1624 ± 2674
pull
Entries 91
Mean 155.9
Std Dev 5.759

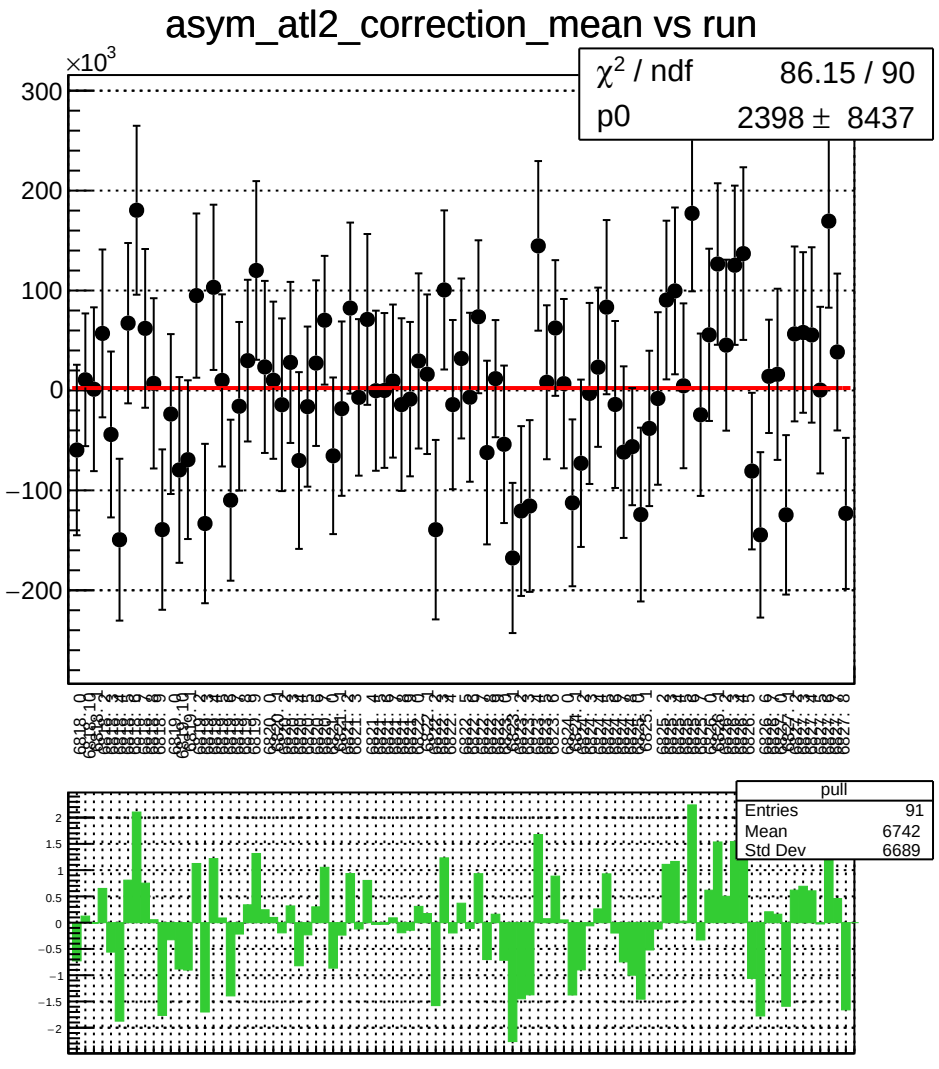

pull1D
Entries 91
Mean 0.006725
Std Dev 0.8552

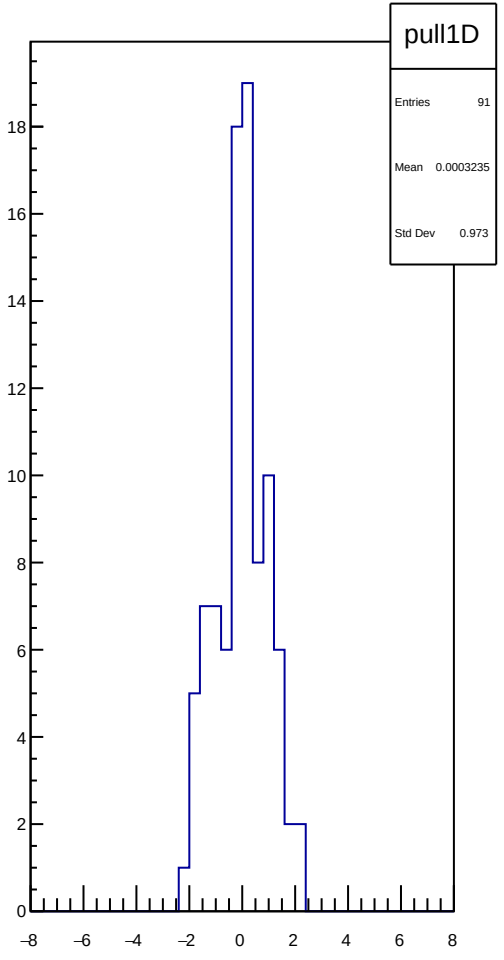

asym_atl1_rms vs run
χ² / ndf 102.6 / 90
p0 2487 ± 1.891
2560
2540
2520
2500
2480
2460
2440
2420

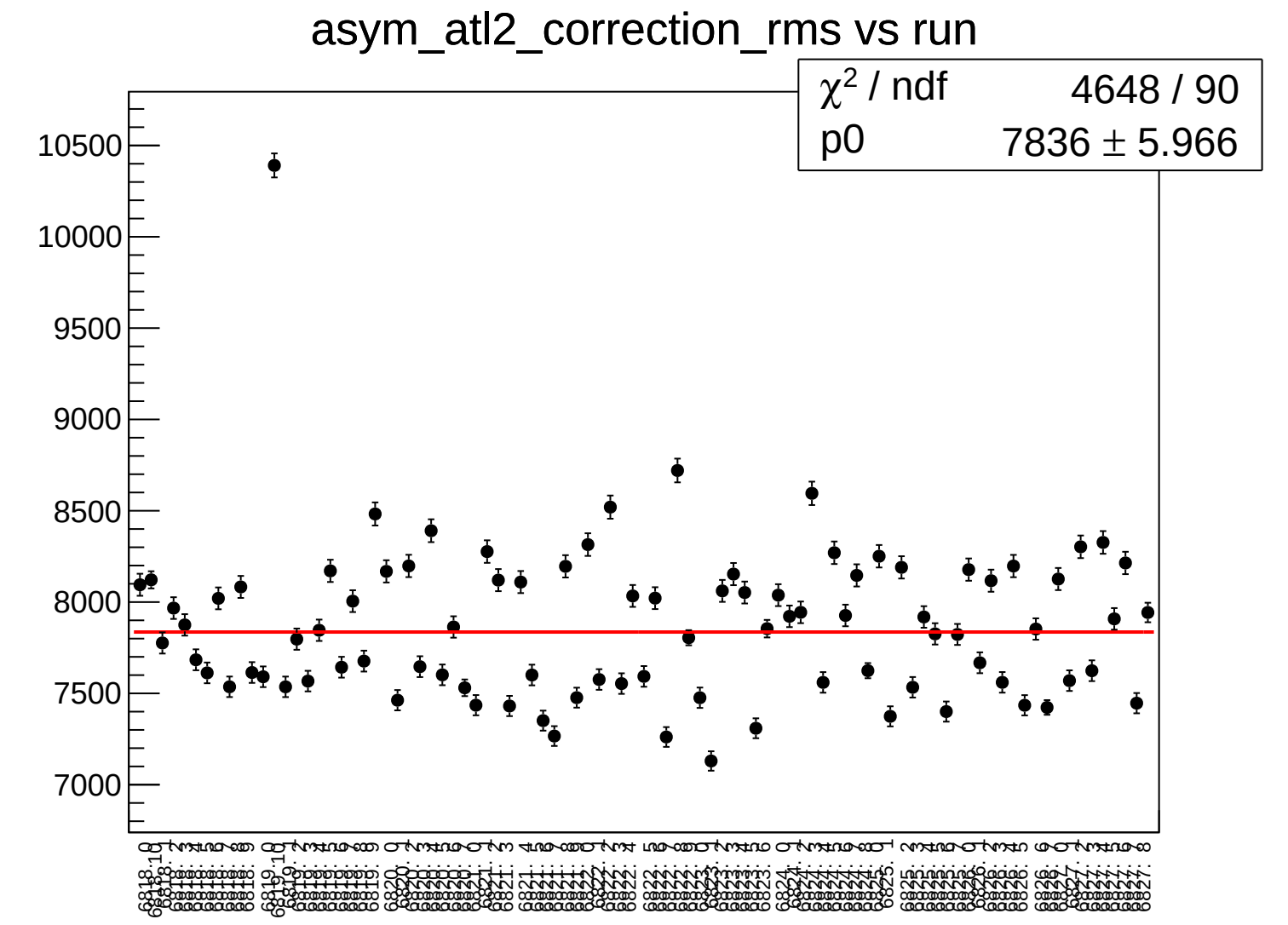

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 107.9 / 90
p0 −3777 ± 2820
100
50
0
−50
−100
pull
Entries 91
Mean 323
Std Dev 286.1
3
2
1
0
−1
−2

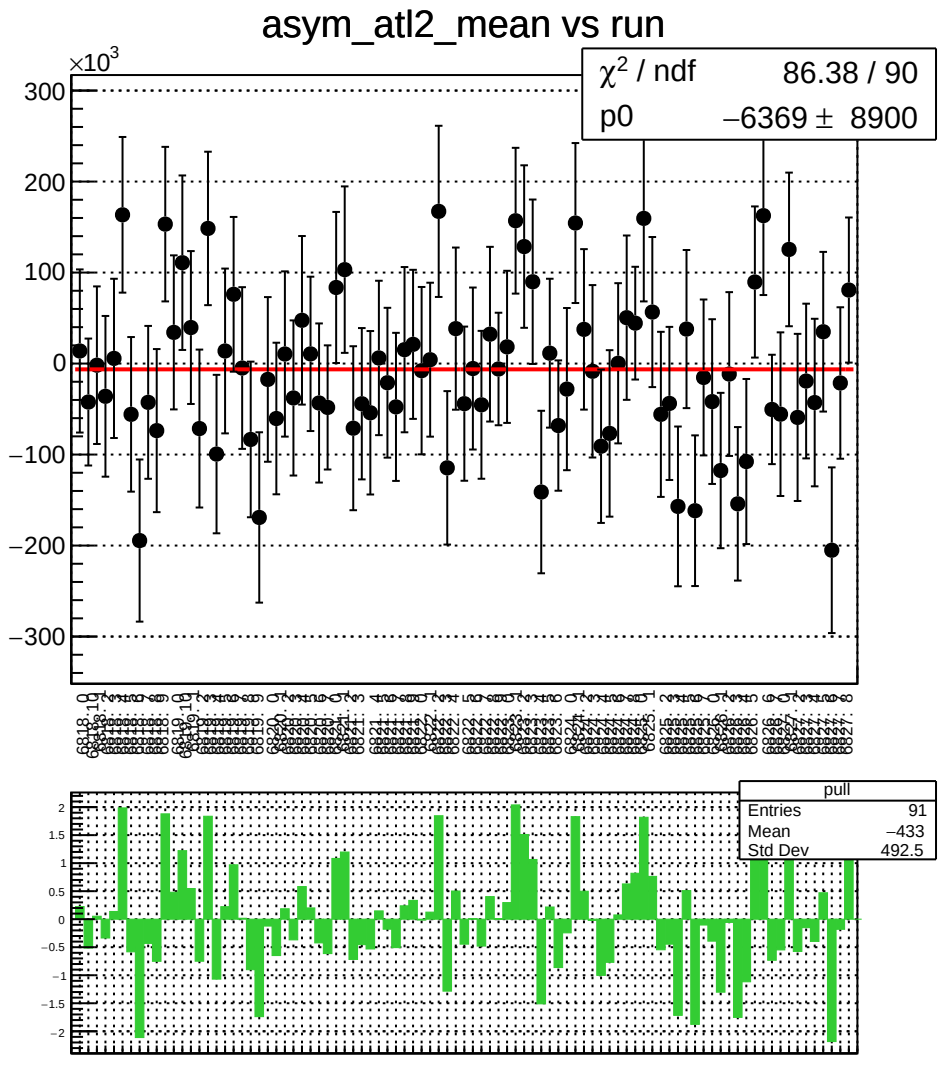

pull1D
Entries 91
Mean 0.006639
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

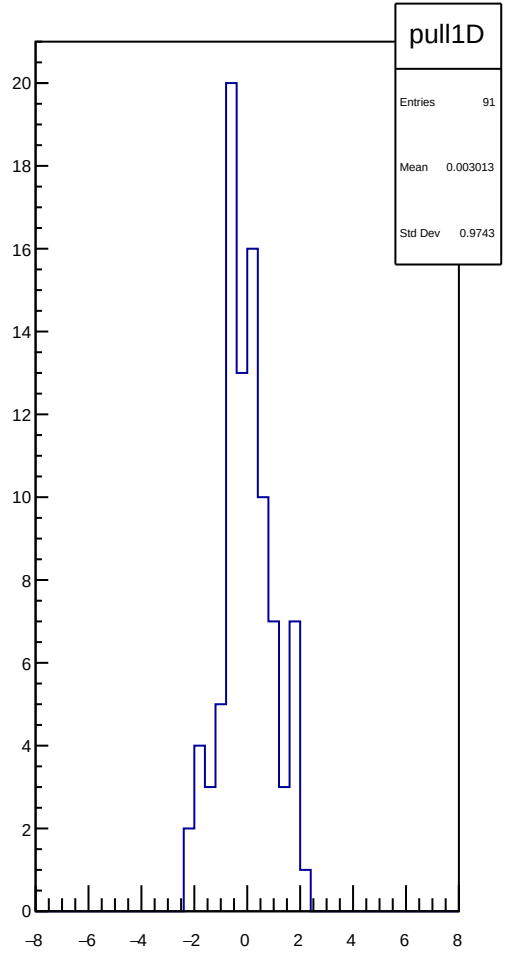

reg_asym_atl2_rms vs run
χ² / ndf 104.1 / 90
p0 2623 ± 1.994
2700
2680
2660
2640
2620
2600
2580
2560

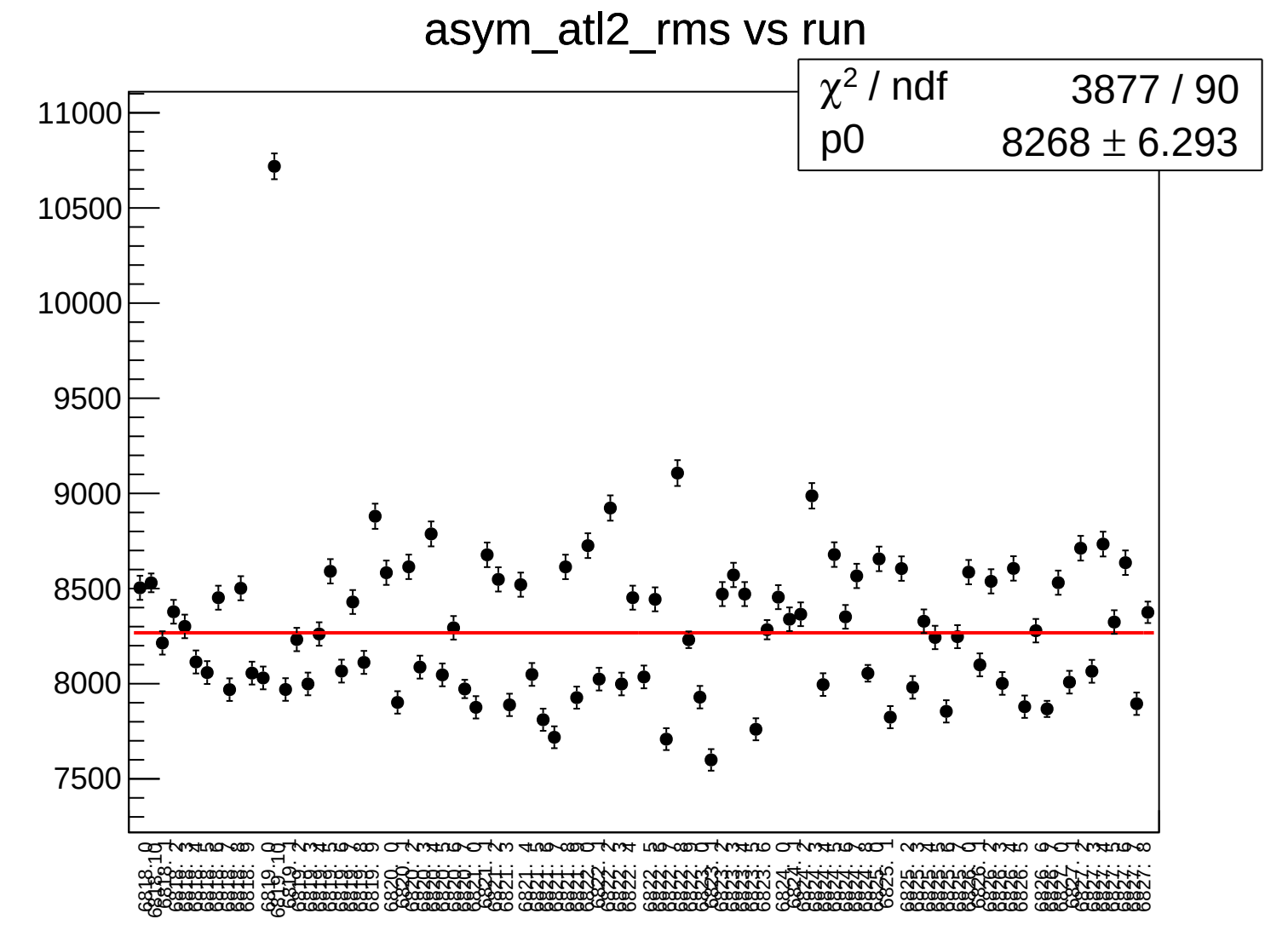

asym_atl2_correction_mean vs run
×10^3
χ^2 / ndf 86.15 / 90
p0 2398 ± 8437
pull
Entries 91
Mean 6742
Std Dev 6689

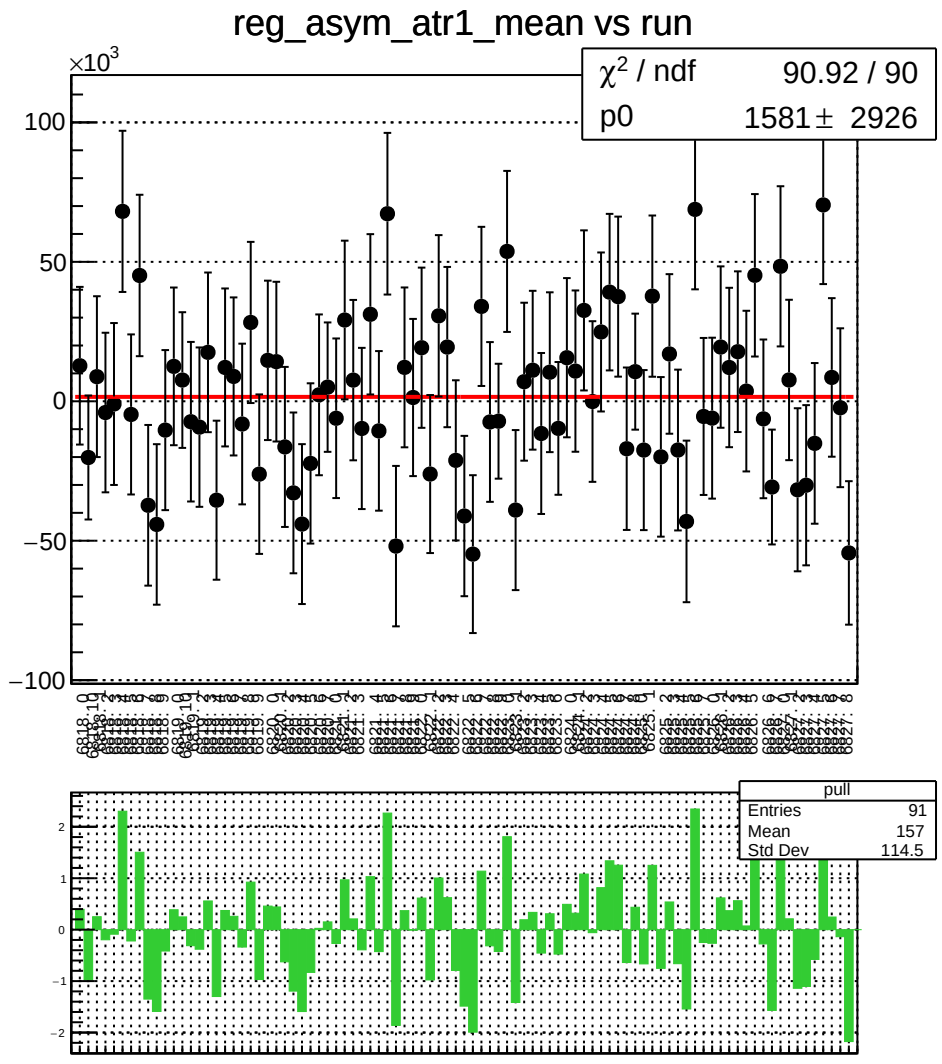

pull1D
Entries 91
Mean 0.0003235
Std Dev 0.973

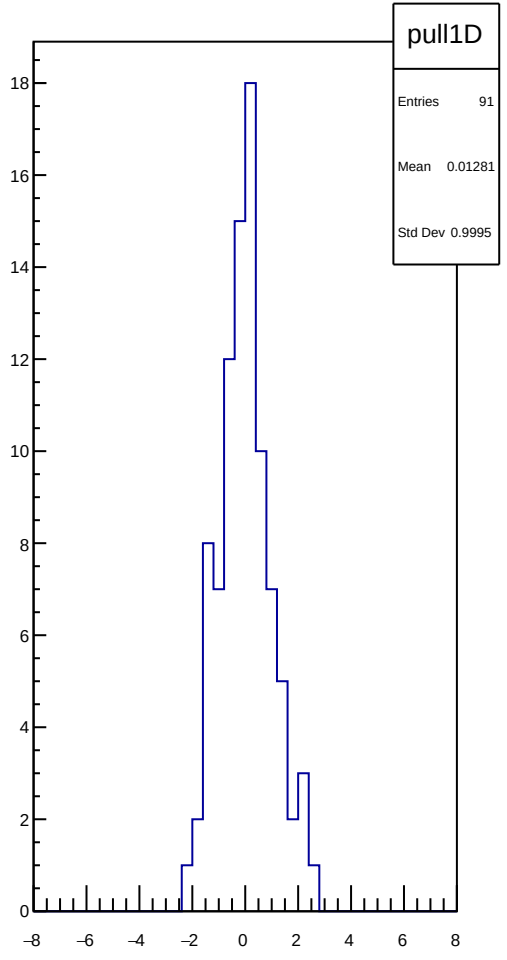

asym_atl2_correction_rms vs run
χ² / ndf 4648 / 90
p0 7836 ± 5.966
10500
10000
9500
9000
8500
8000
7500
7000

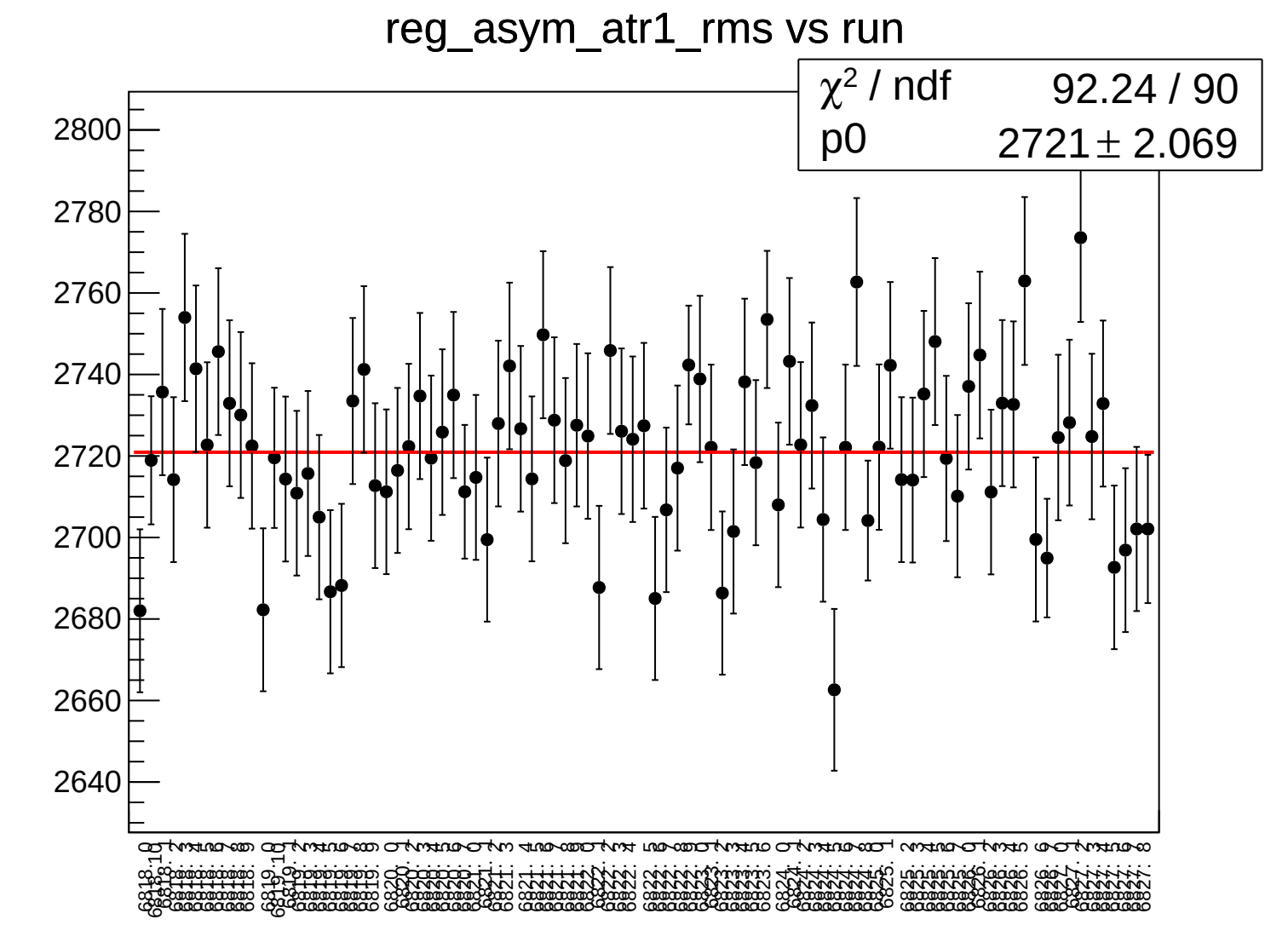

asym_atl2_mean vs run
×10^3
χ² / ndf 86.38 / 90
p0 −6369 ± 8900
pull
Entries 91
Mean −433
Std Dev 492.5

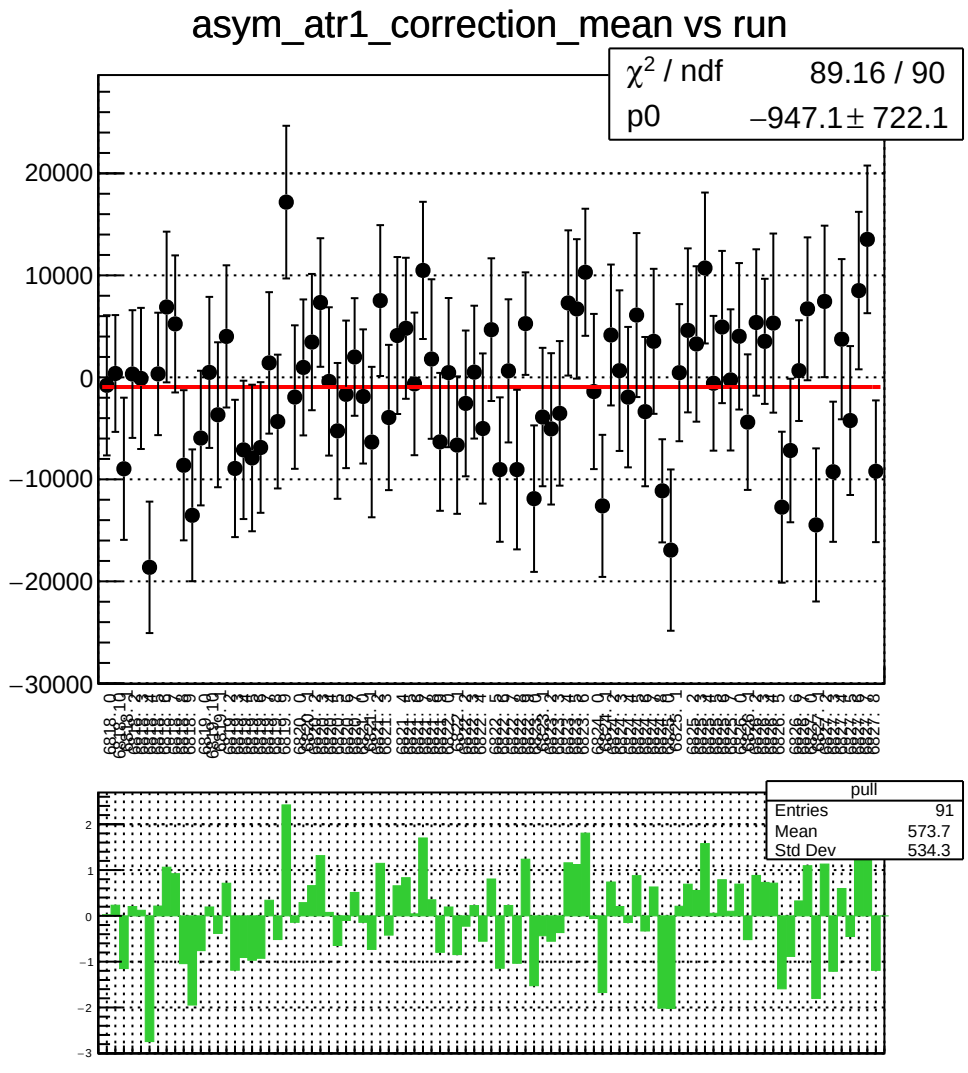

pull1D
Entries 91
Mean 0.003013
Std Dev 0.9743

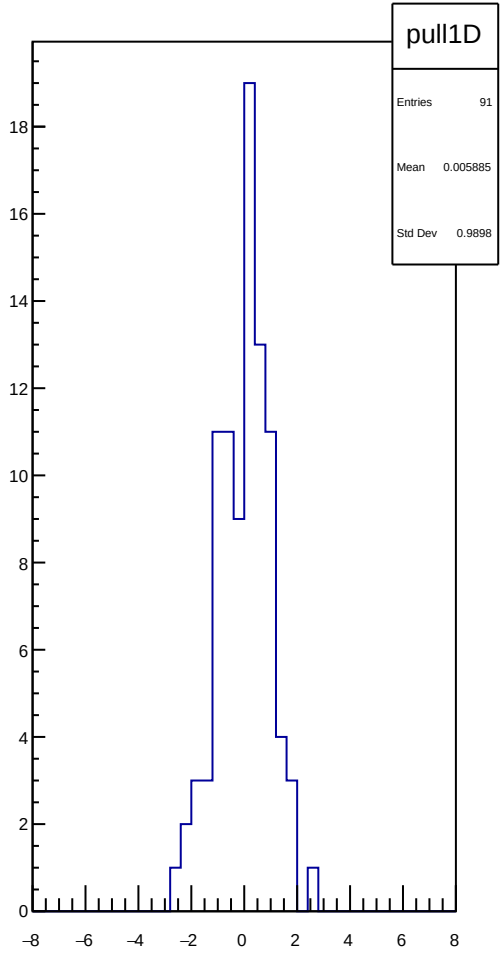

asym_atl2_rms vs run
χ² / ndf 3877 / 90
p0 8268 ± 6.293
11000
10500
10000
9500
9000
8500
8000
7500

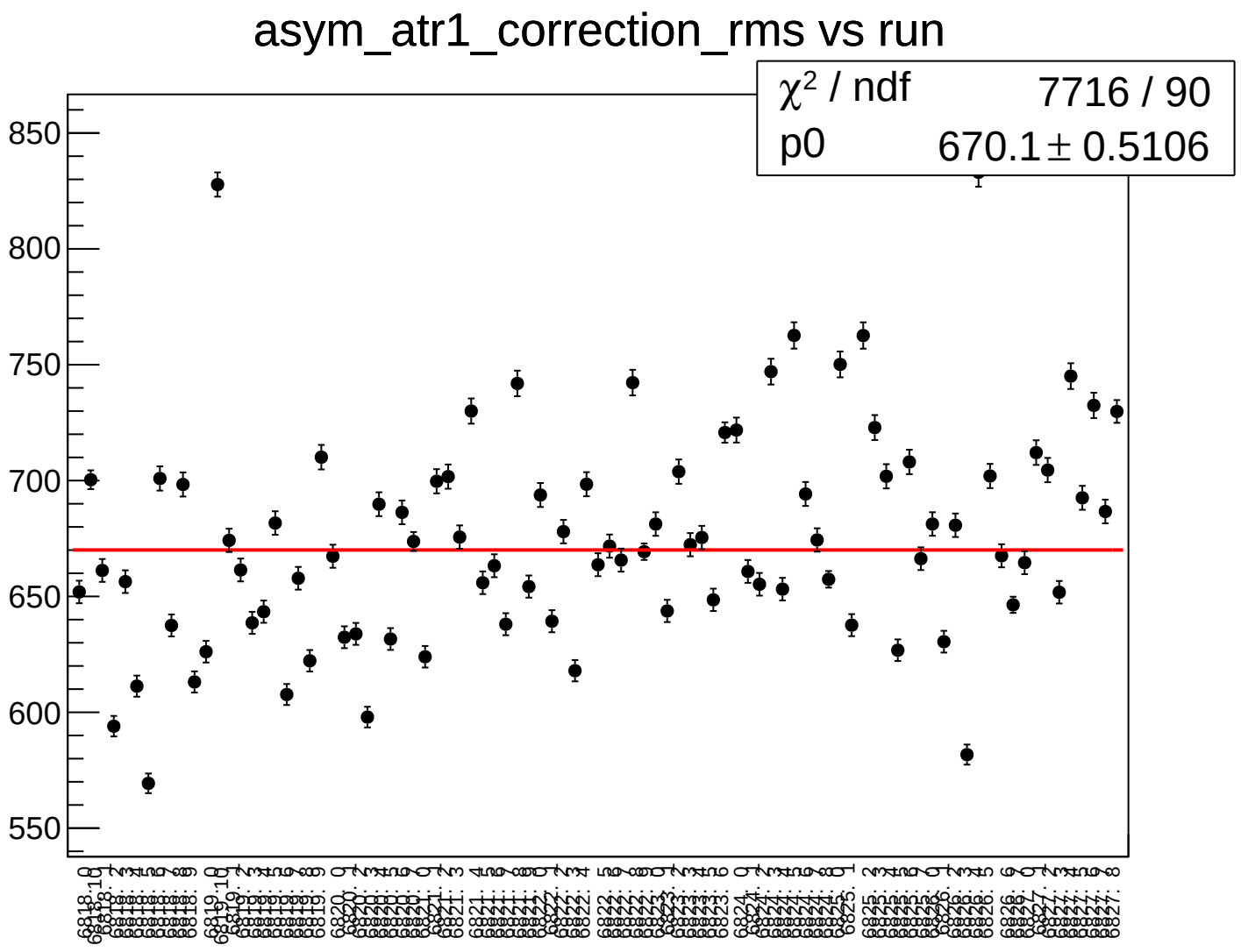

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 90.92 / 90
p0 1581 ± 2926
pull
Entries 91
Mean 157
Std Dev 114.5

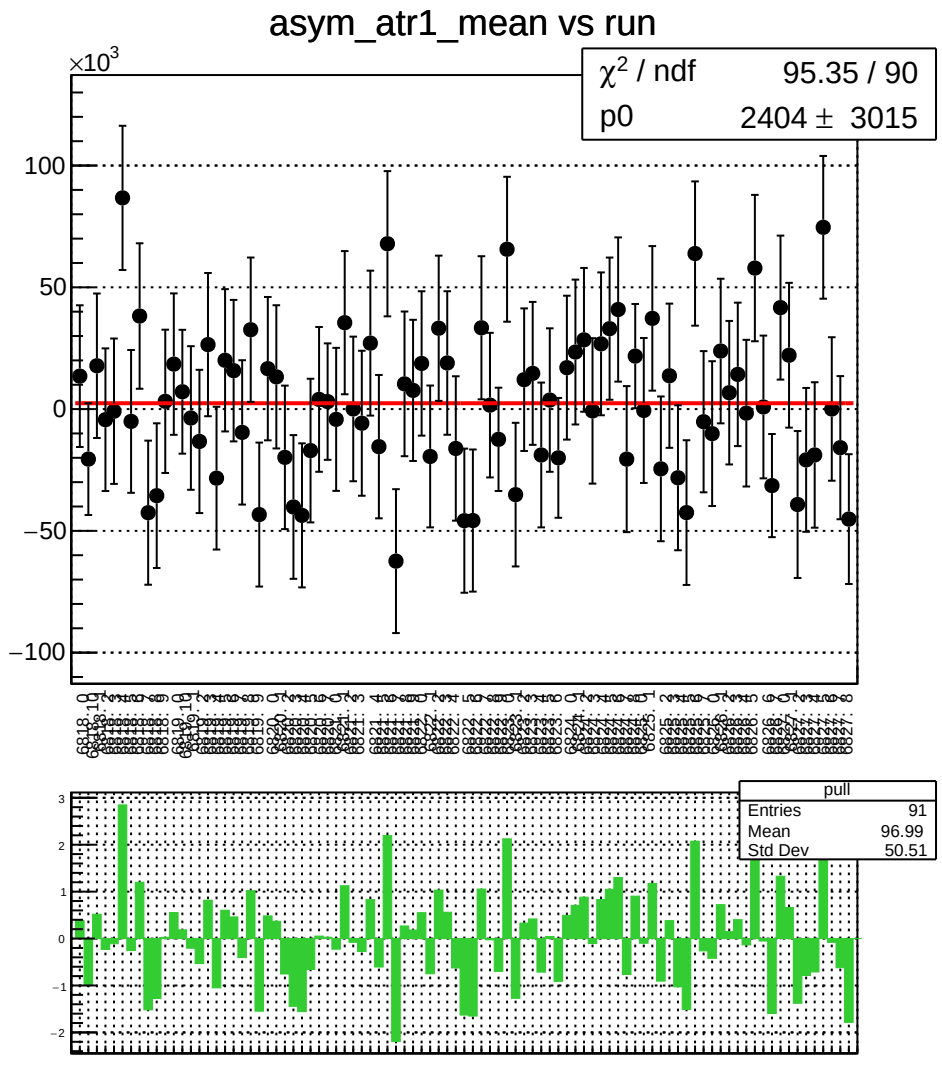

pull1D
Entries 91
Mean 0.01281
Std Dev 0.9995

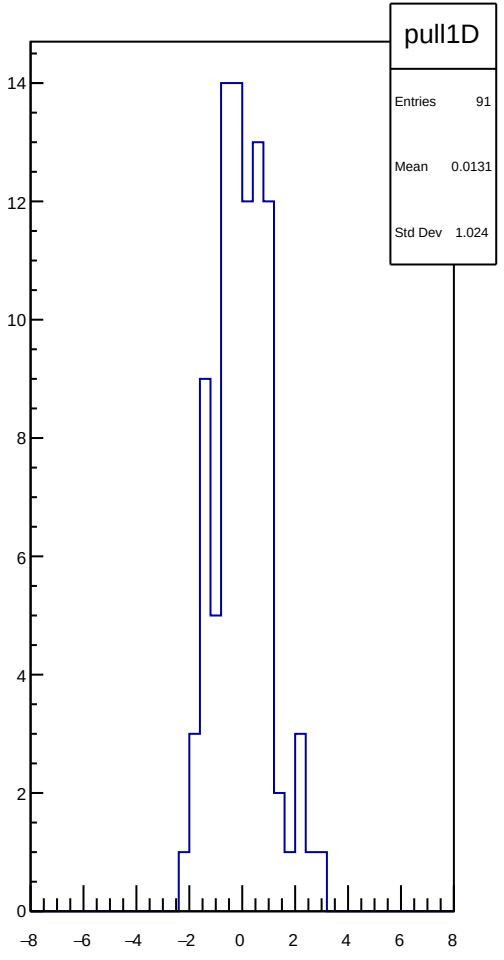

reg_asym_atr1_rms vs run
χ^2 / ndf 92.24 / 90
p0 2721 ± 2.069
2800
2780
2760
2740
2720
2700
2680
2660
2640

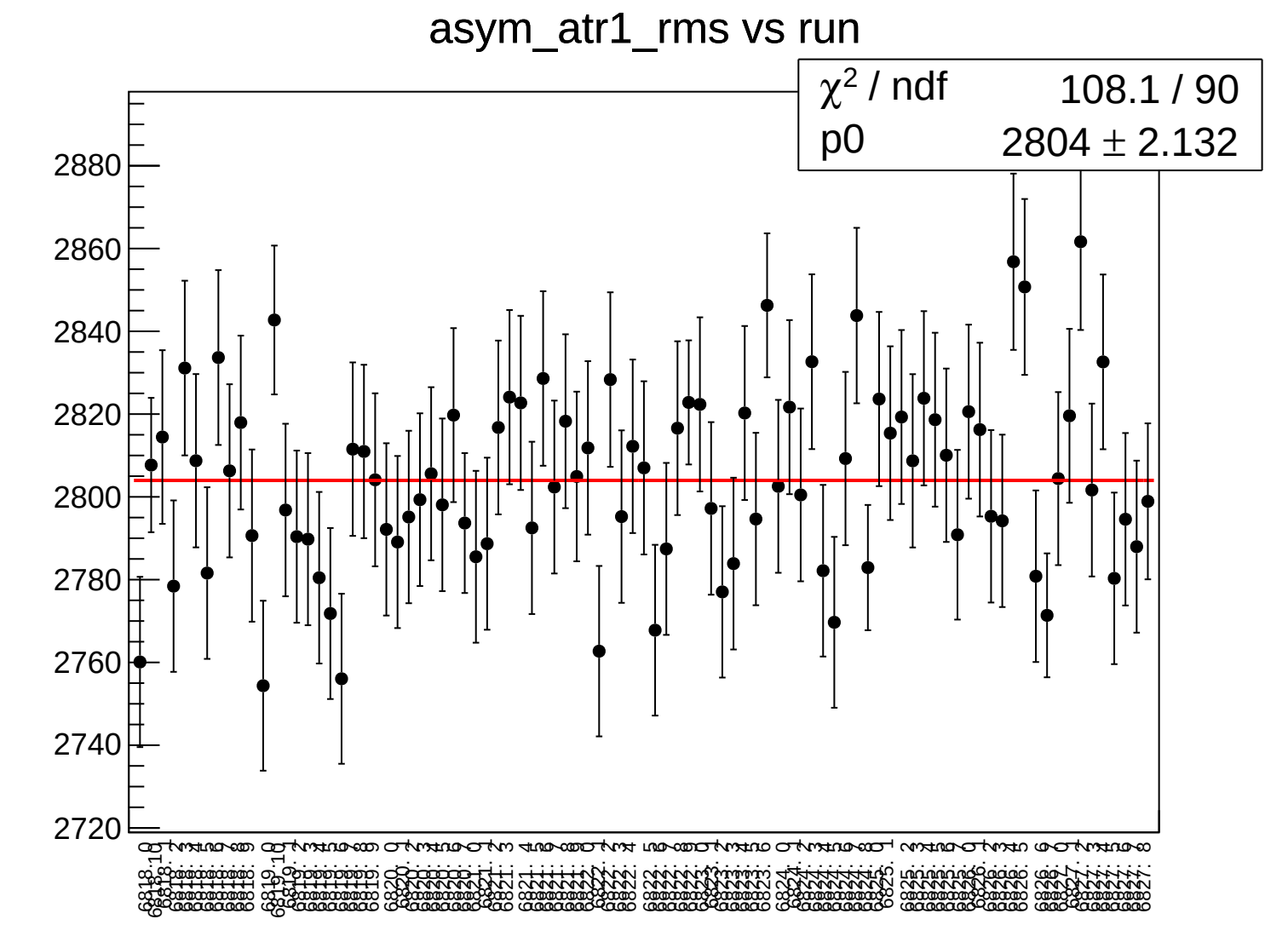

asym_atr1_correction_mean vs run
χ² / ndf 89.16 / 90
p0 −947.1 ± 722.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 573.7
Std Dev 534.3
2
1
0
−1
−2
−3

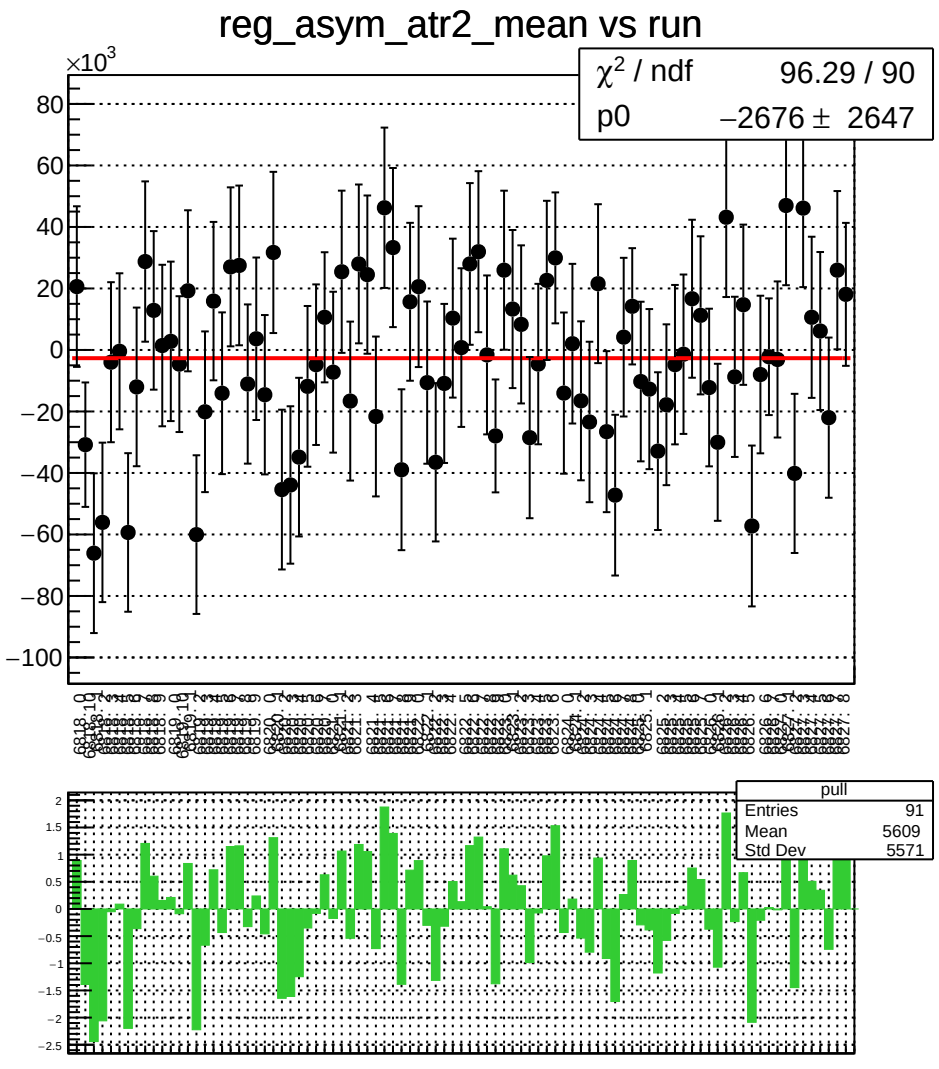

pull1D
Entries 91
Mean 0.005885
Std Dev 0.9898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

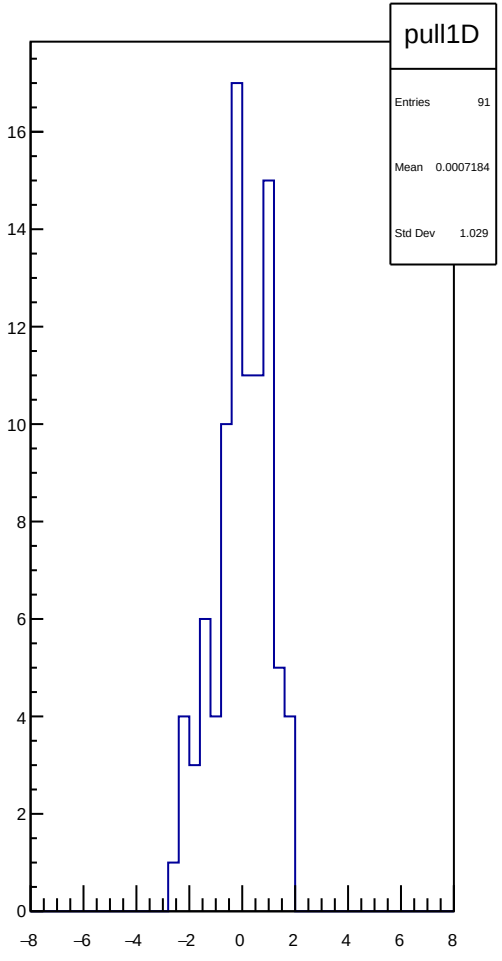

asym_atr1_correction_rms vs run
χ² / ndf 7716 / 90
p0 670.1 ± 0.5106
850
800
750
700
650
600
550

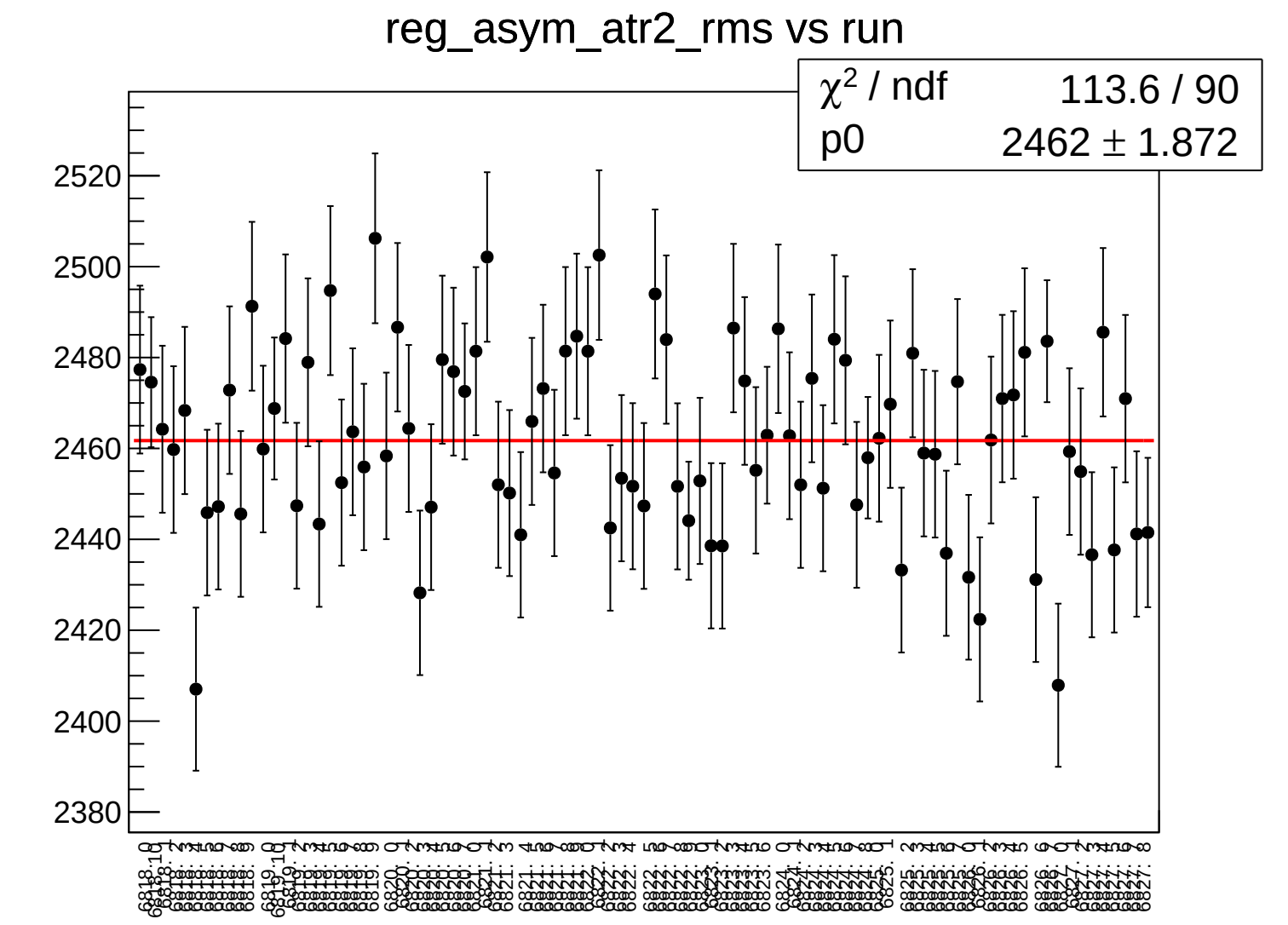

asym_atr1_mean vs run
×10^3
χ² / ndf 95.35 / 90
p0 2404 ± 3015
100
50
0
−50
−100
pull
Entries 91
Mean 96.99
Std Dev 50.51
3
2
1
0
−1
−2

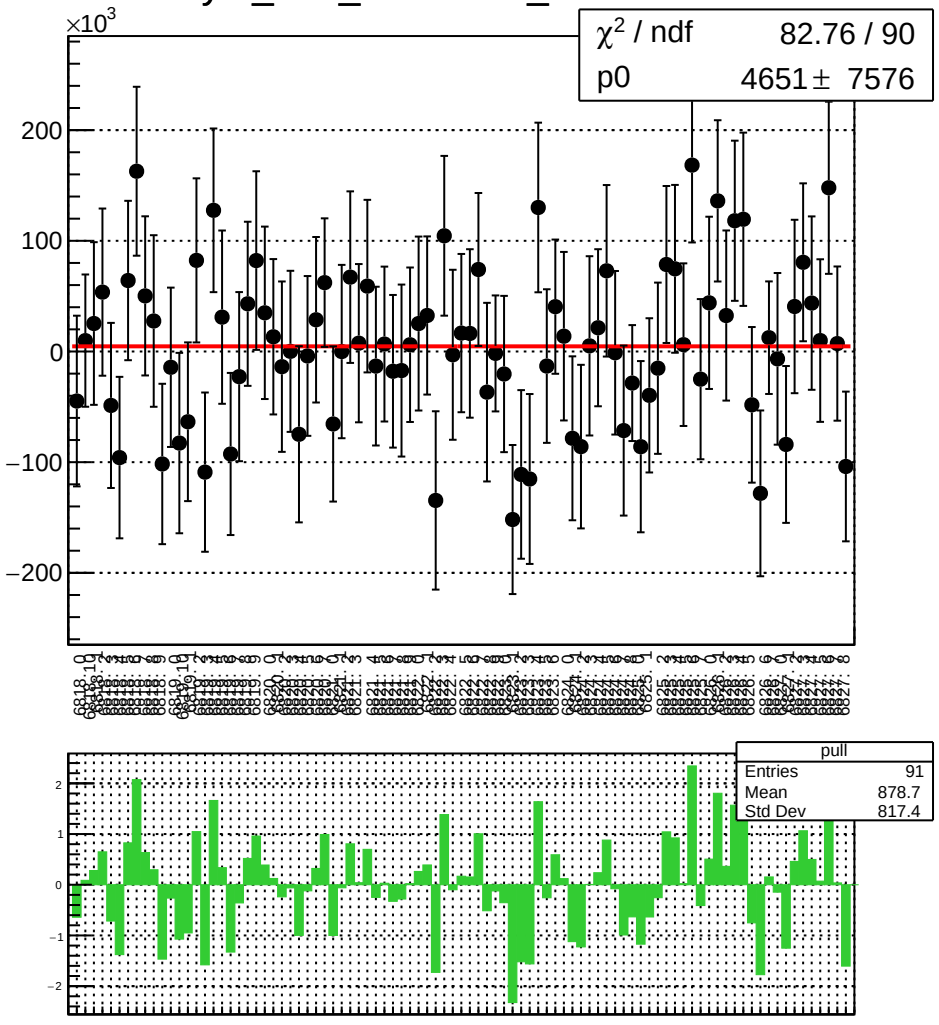

pull1D
Entries 91
Mean 0.0131
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

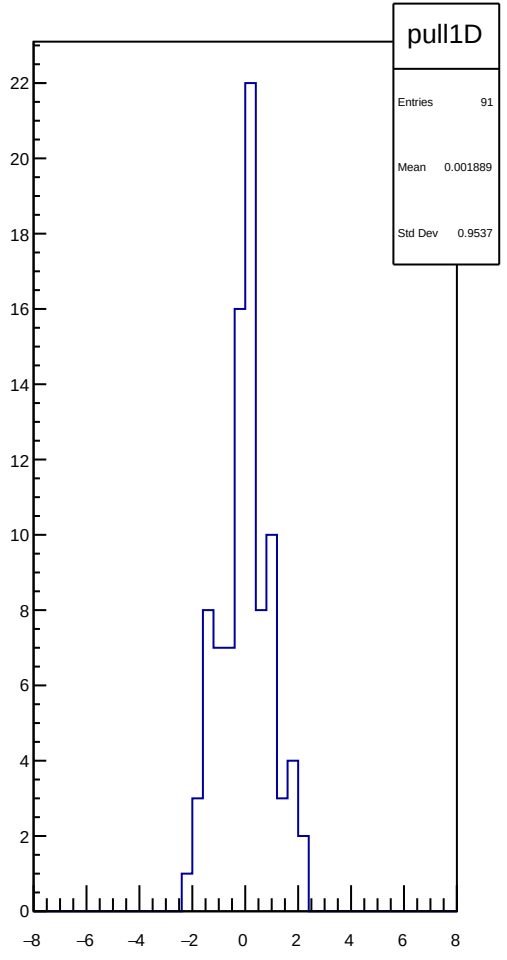

asym_atr1_rms vs run
χ² / ndf 108.1 / 90
p0 2804 ± 2.132
2880
2860
2840
2820
2800
2780
2760
2740
2720

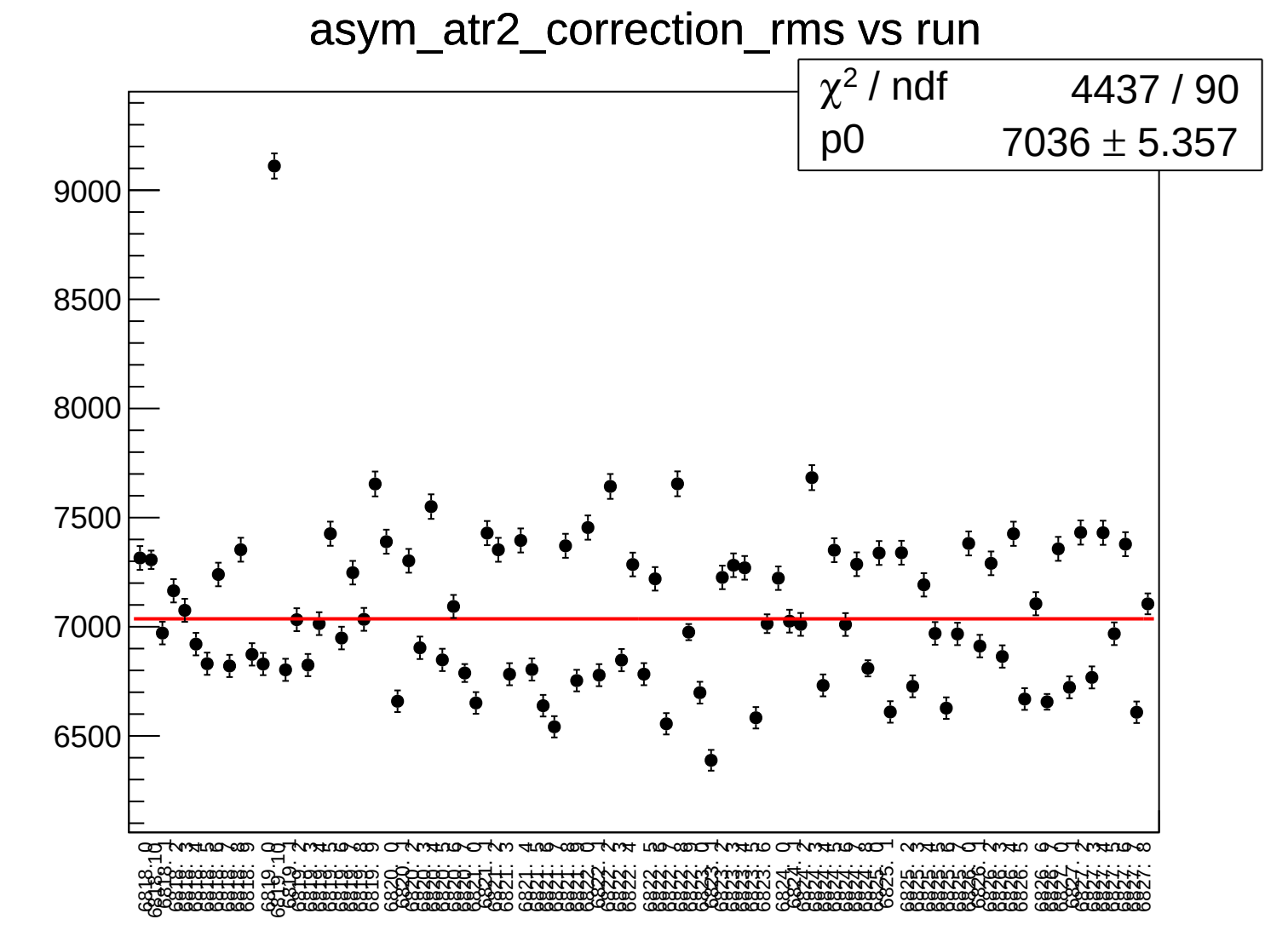

reg_asym_atr2_mean vs run
χ^2 / ndf 96.29 / 90
p0 −2676 ± 2647
×10^3
pull
Entries 91
Mean 5609
Std Dev 5571

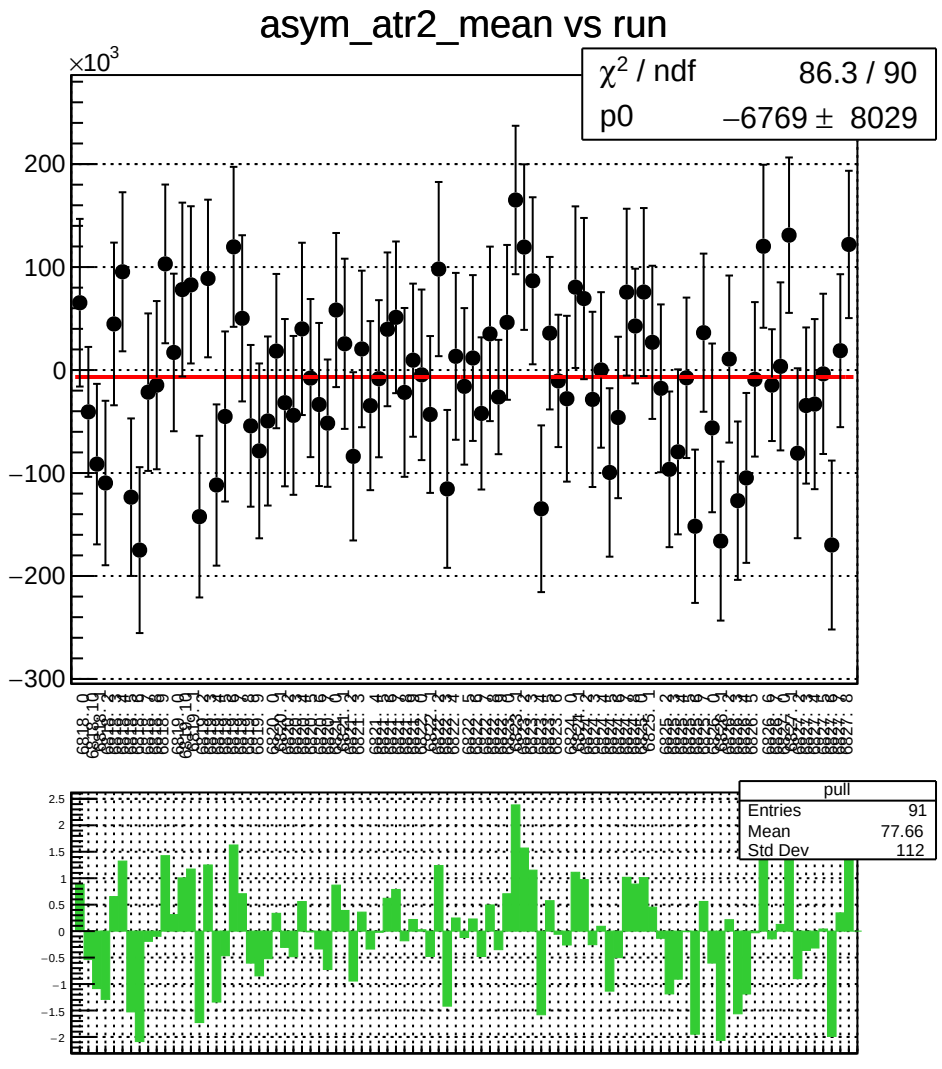

pull1D
Entries 91
Mean 0.0007184
Std Dev 1.029

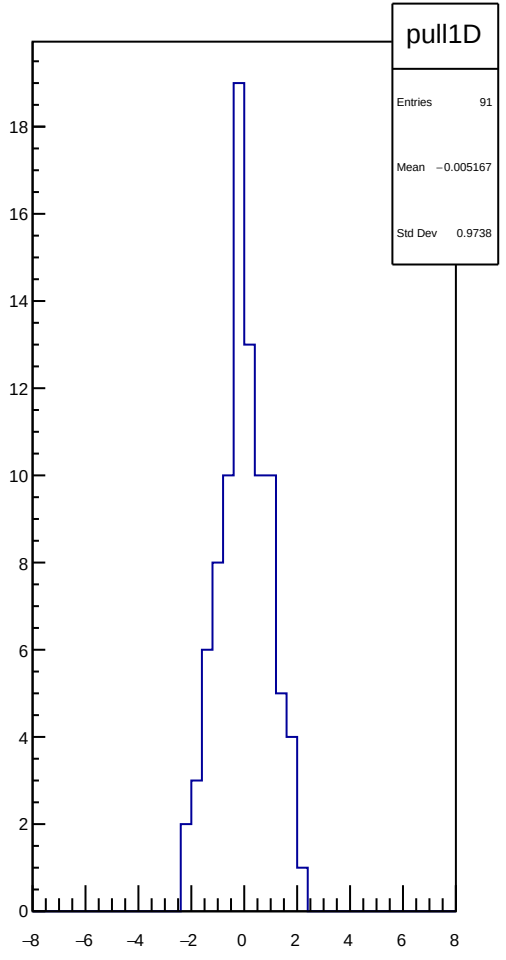

reg_asym_atr2_rms vs run
χ² / ndf 113.6 / 90
p0 2462 ± 1.872
2520
2500
2480
2460
2440
2420
2400
2380

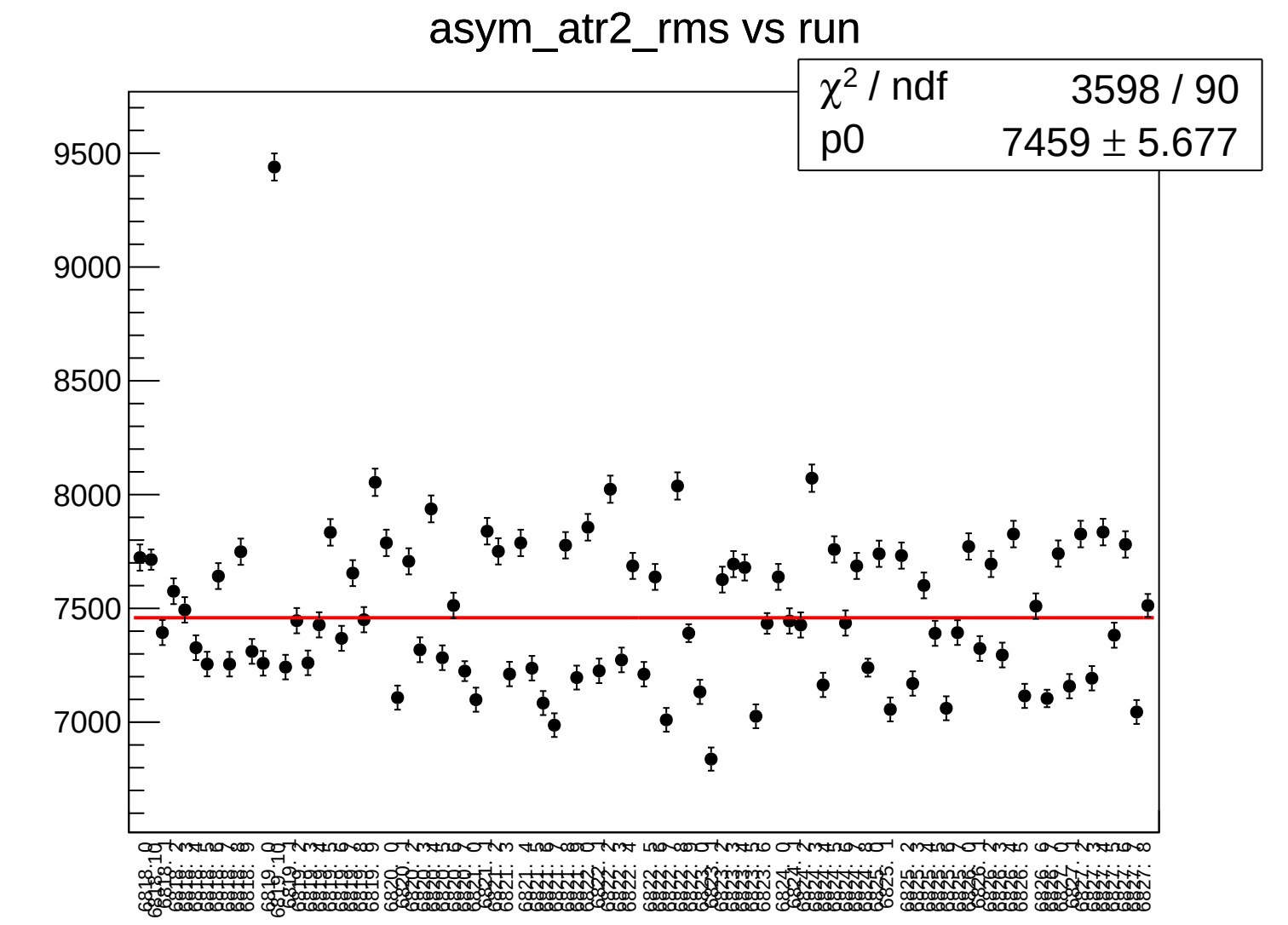

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 82.76 / 90
p0 4651 ± 7576
200
100
0
−100
−200
pull
Entries 91
Mean 878.7
Std Dev 817.4
2
1
0
−1
−2

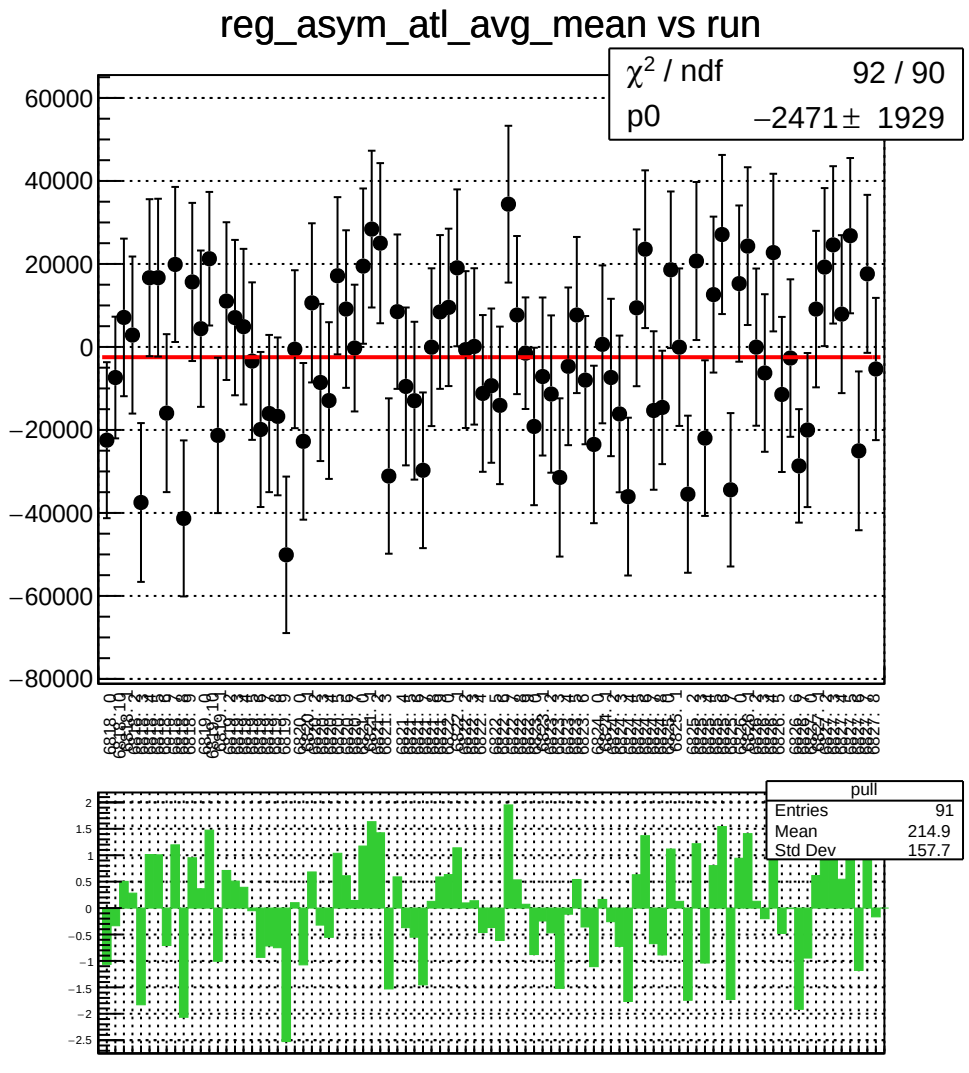

pull1D
Entries 91
Mean 0.001889
Std Dev 0.9537
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

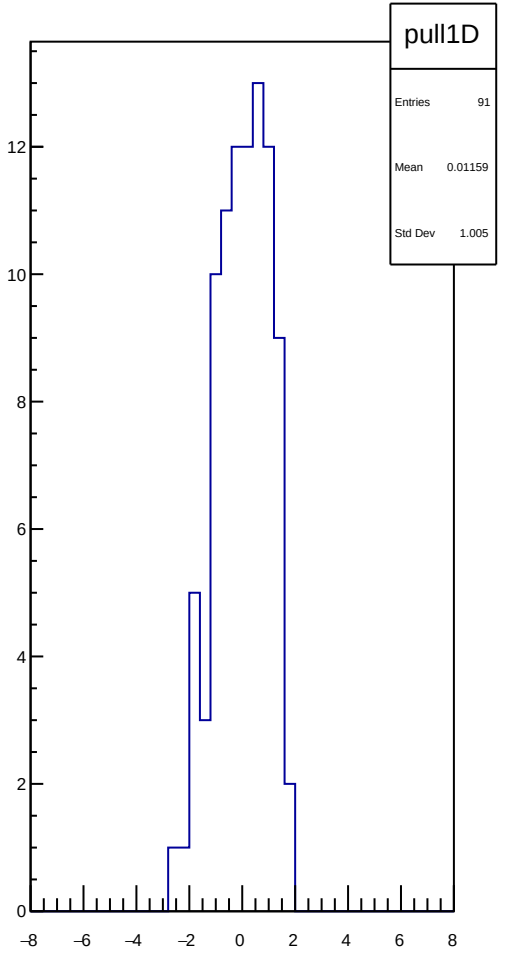

asym_atr2_correction_rms vs run
χ² / ndf 4437 / 90
p0 7036 ± 5.357
9000
8500
8000
7500
7000
6500

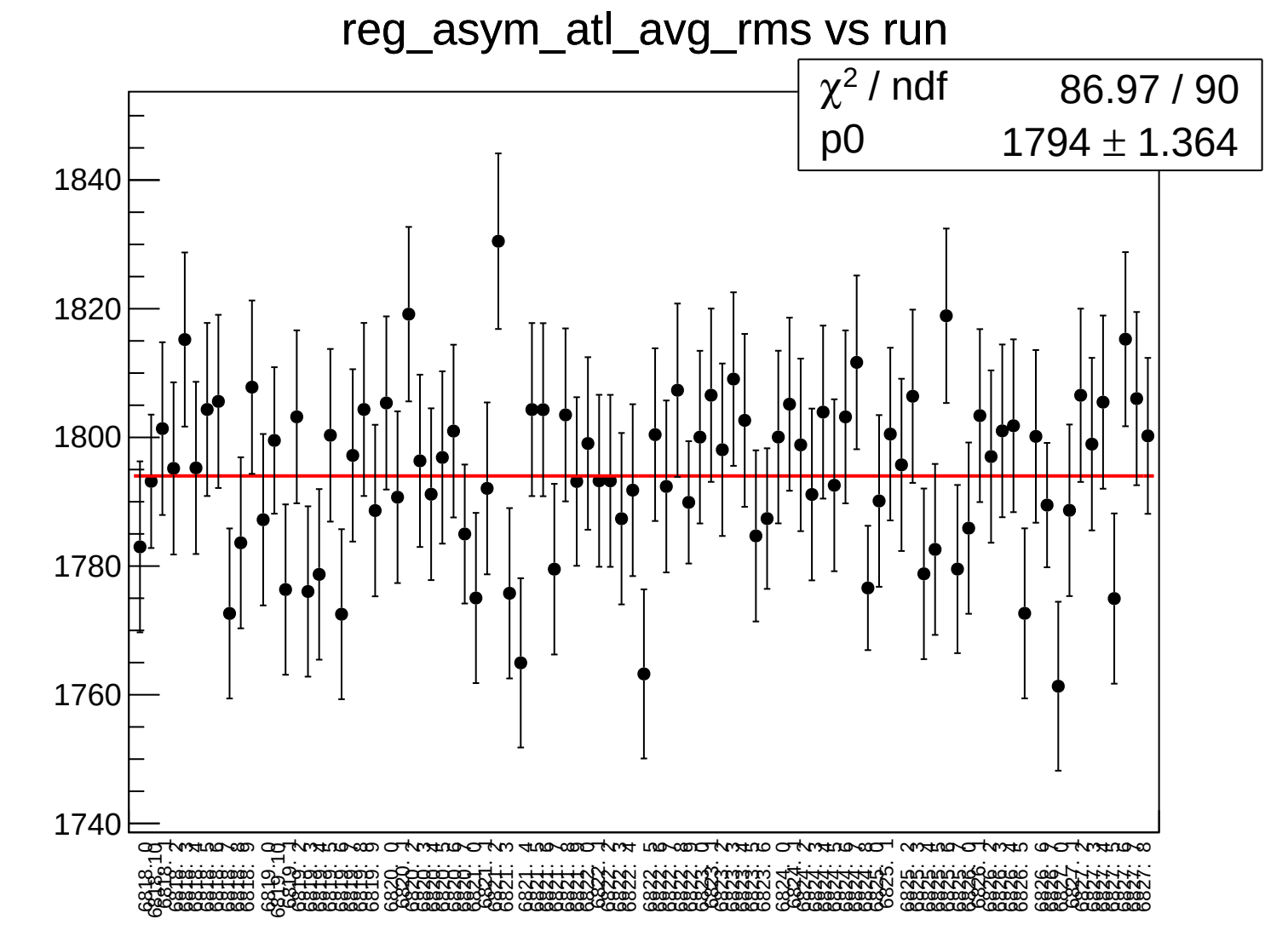

asym_atr2_mean vs run
×10^3
χ^2 / ndf 86.3 / 90
p0 −6769 ± 8029
200
100
0
−100
−200
−300
pull
Entries 91
Mean 77.66
Std Dev 112
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

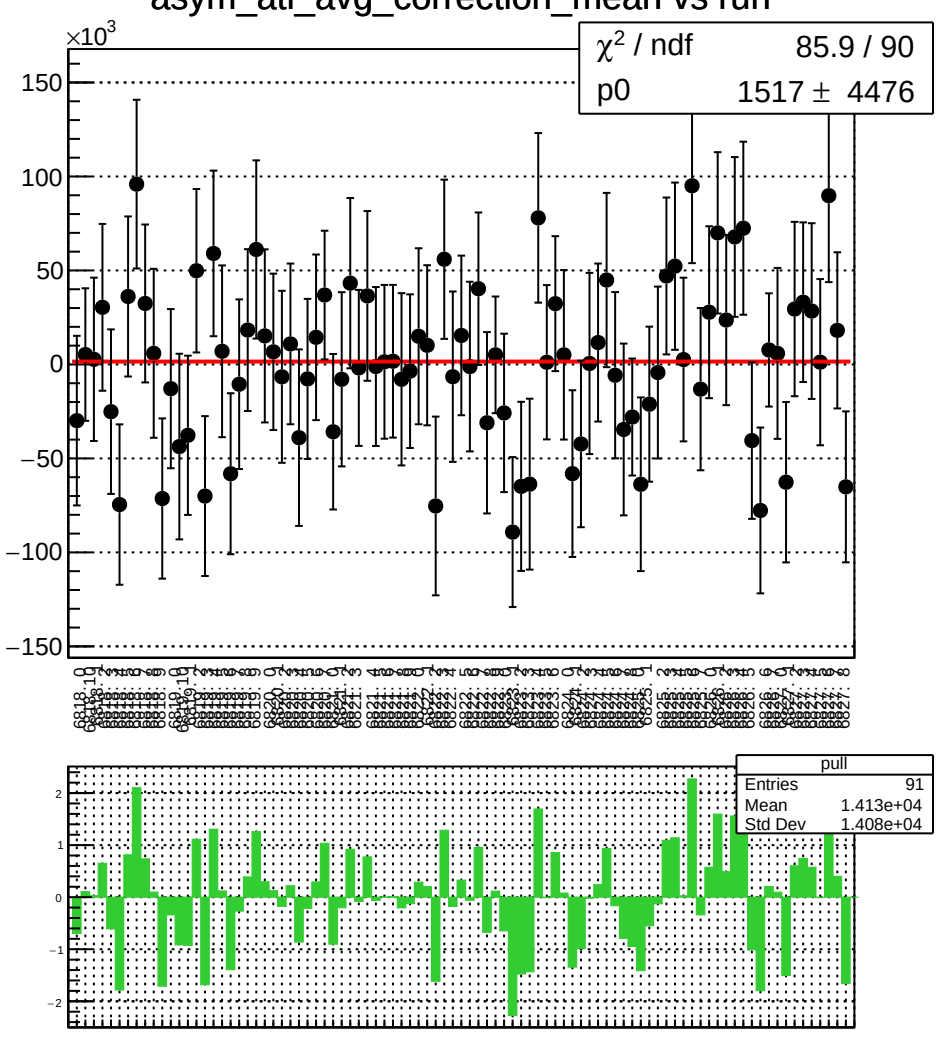

pull1D
Entries 91
Mean −0.005167
Std Dev 0.9738
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

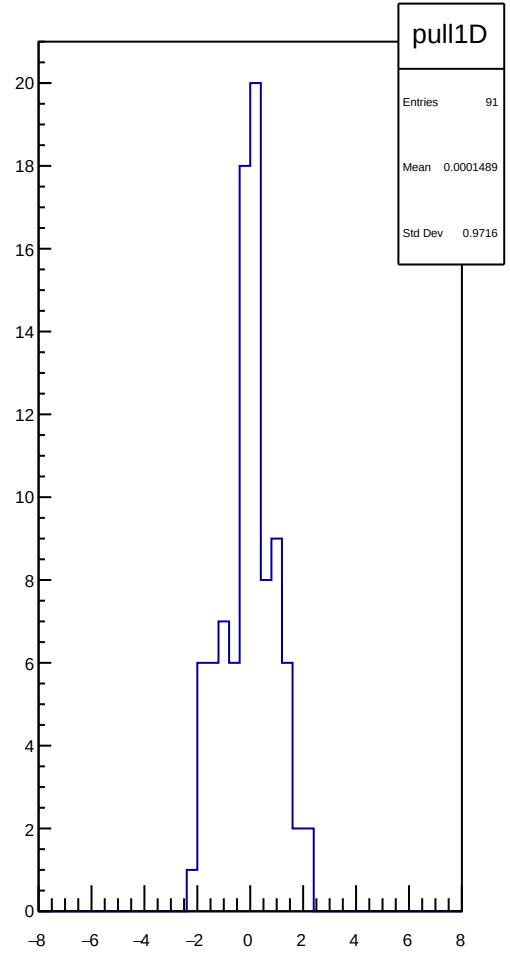

asym_atr2_rms vs run
χ^2 / ndf 3598 / 90
p0 7459 ± 5.677
9500
9000
8500
8000
7500
7000

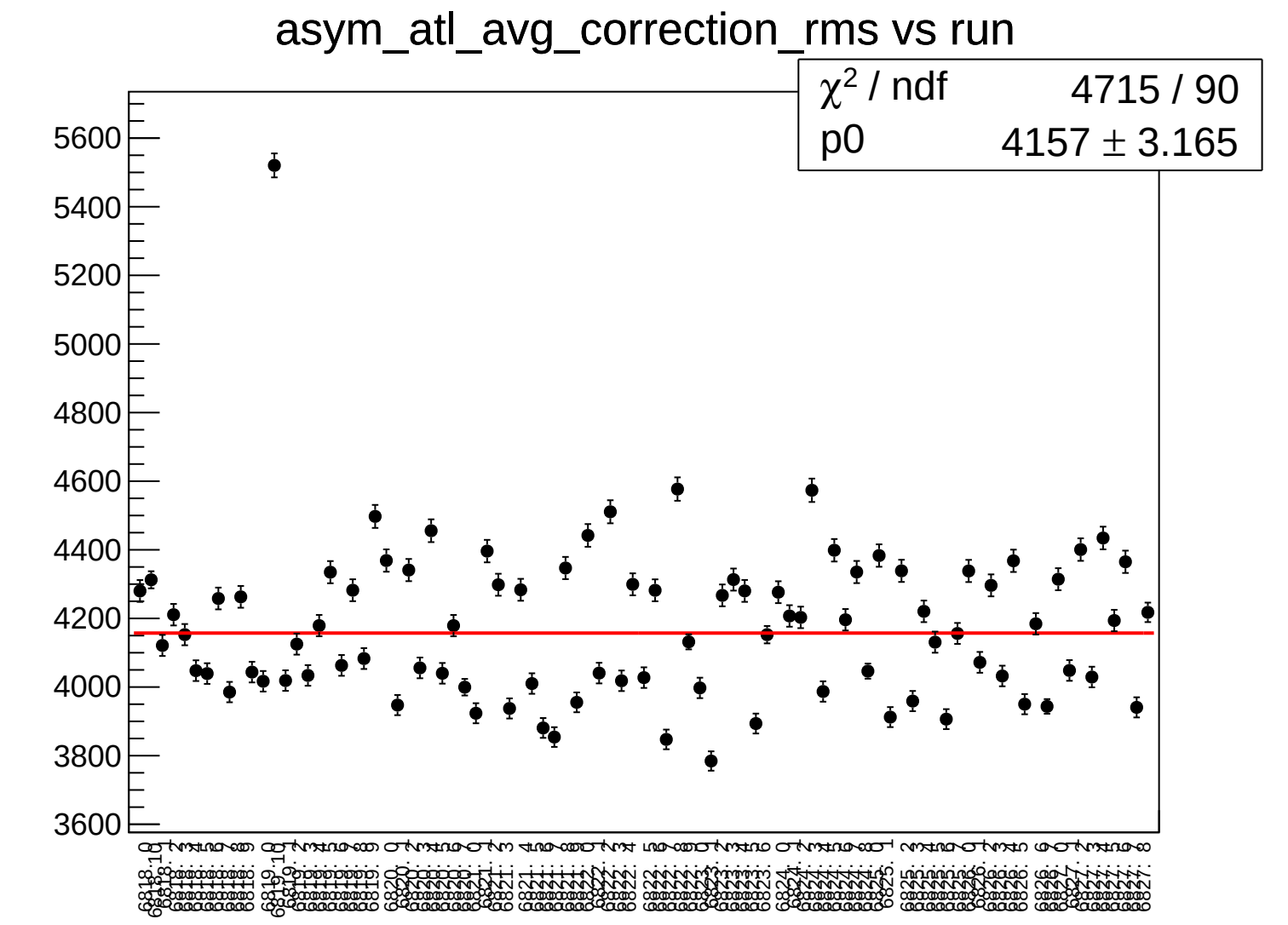

reg_asym_atl_avg_mean vs run
χ² / ndf 92 / 90
p0 −2471 ± 1929
pull
Entries 91
Mean 214.9
Std Dev 157.7

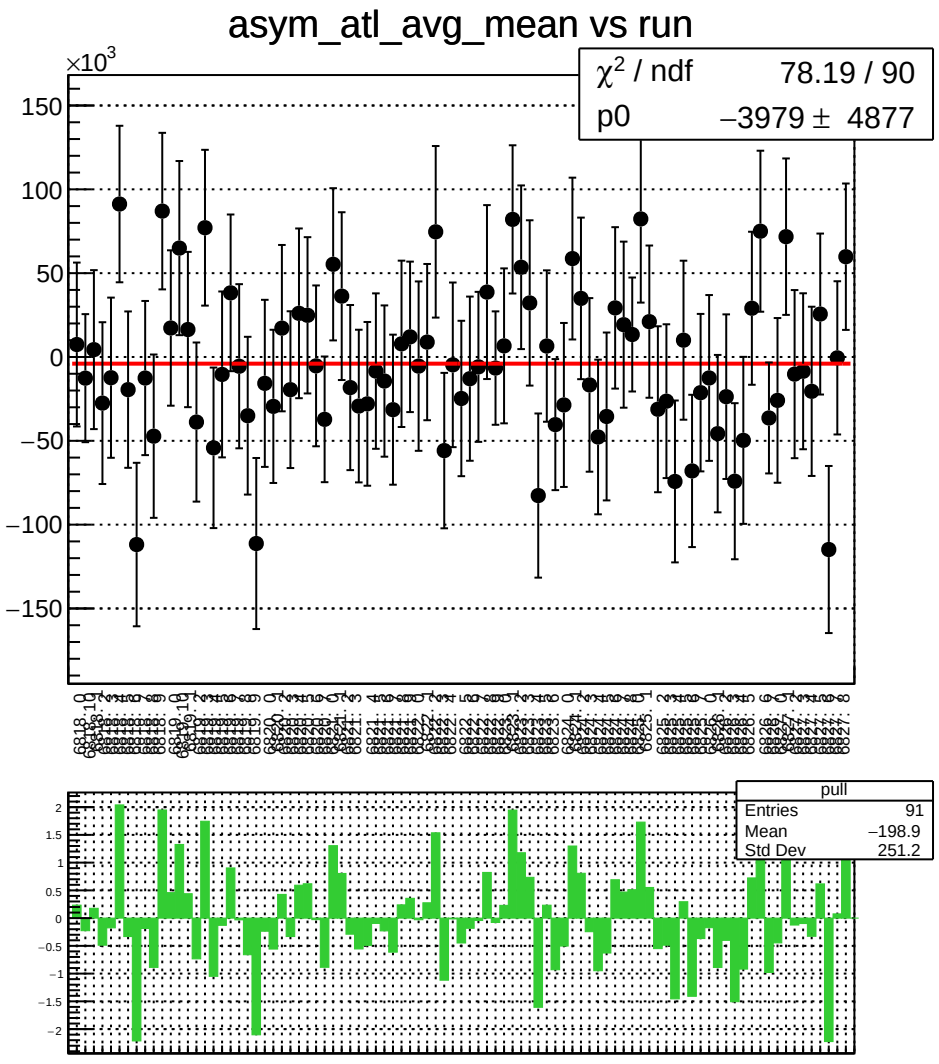

pull1D
Entries 91
Mean 0.01159
Std Dev 1.005

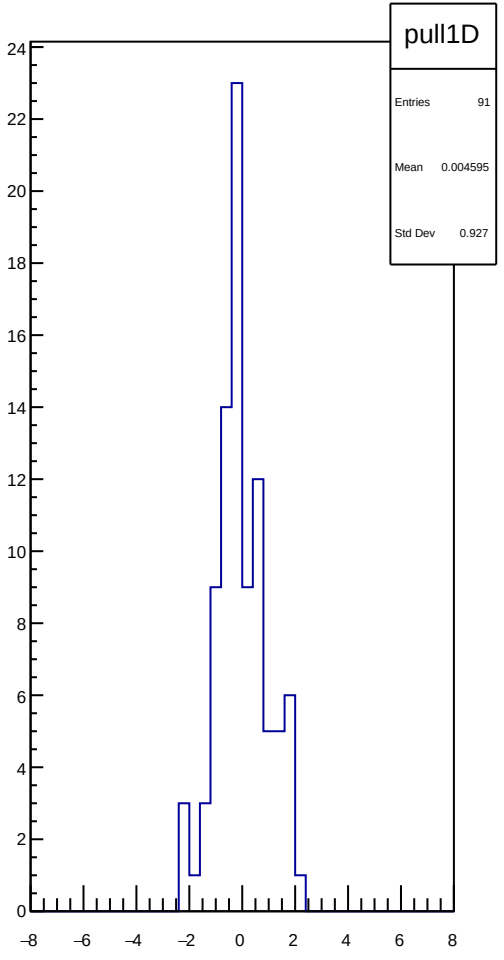

reg_asym_atl_avg_rms vs run
χ^2 / ndf 86.97 / 90
p0 1794 ± 1.364
1840
1820
1800
1780
1760
1740

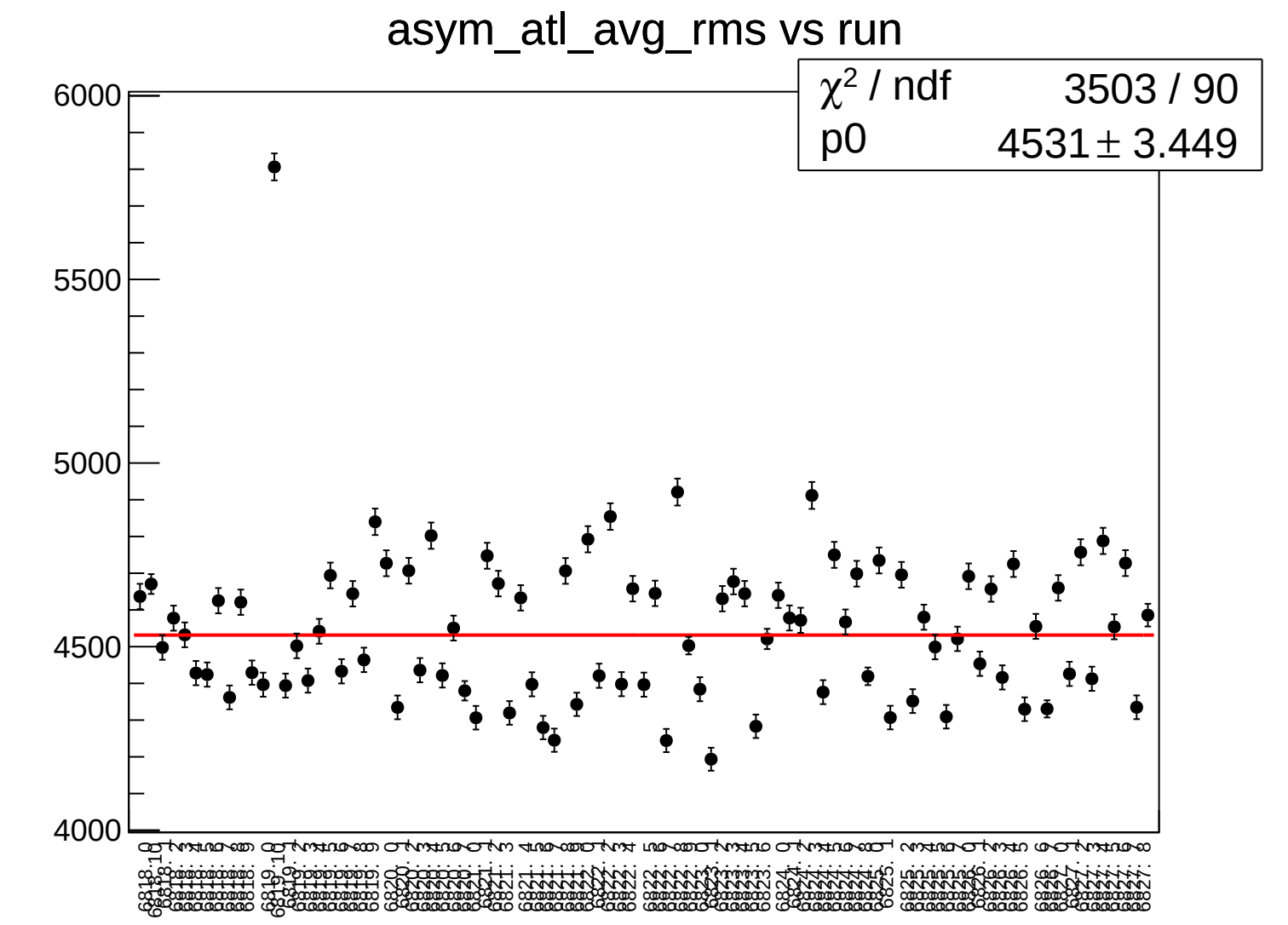

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 85.9 / 90
p0 1517 ± 4476
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 1.413e+04
Std Dev 1.408e+04
2
1
0
−1
−2

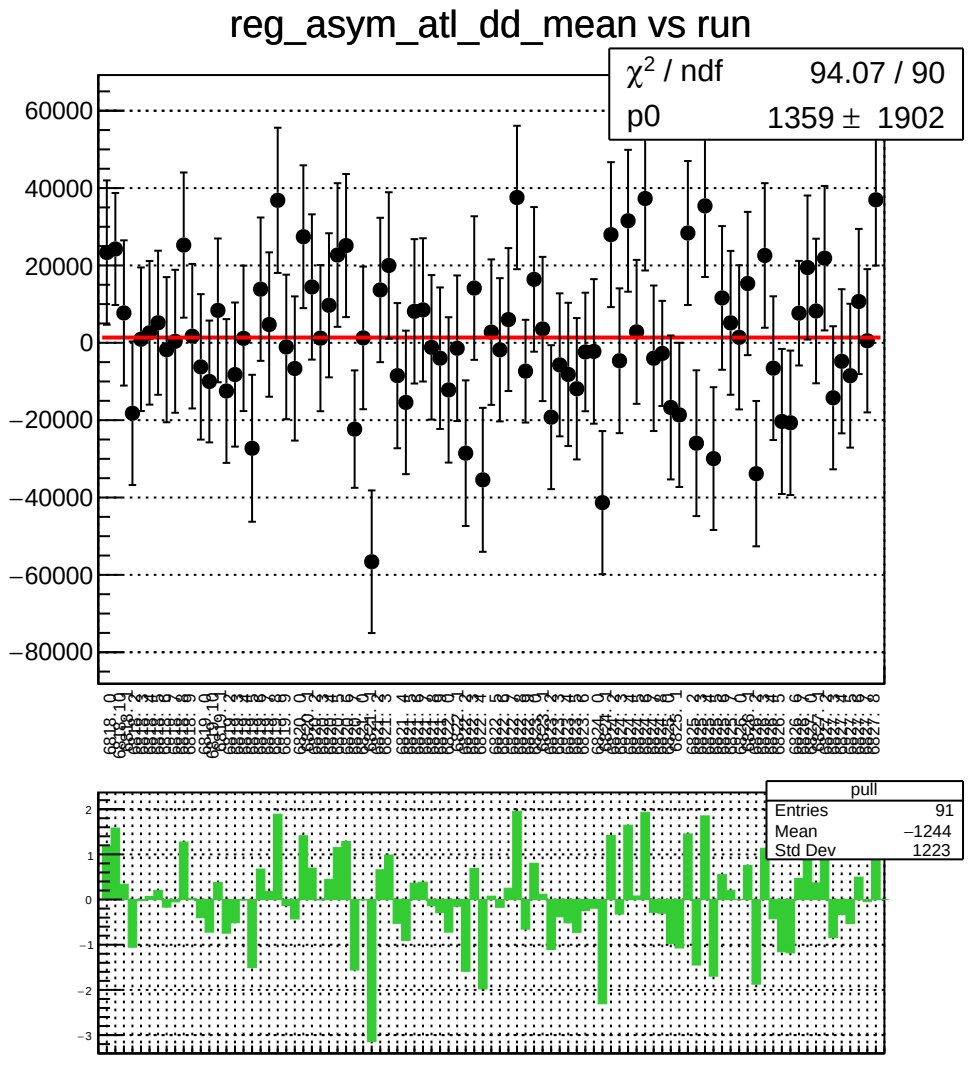

pull1D
Entries 91
Mean 0.0001489
Std Dev 0.9716
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

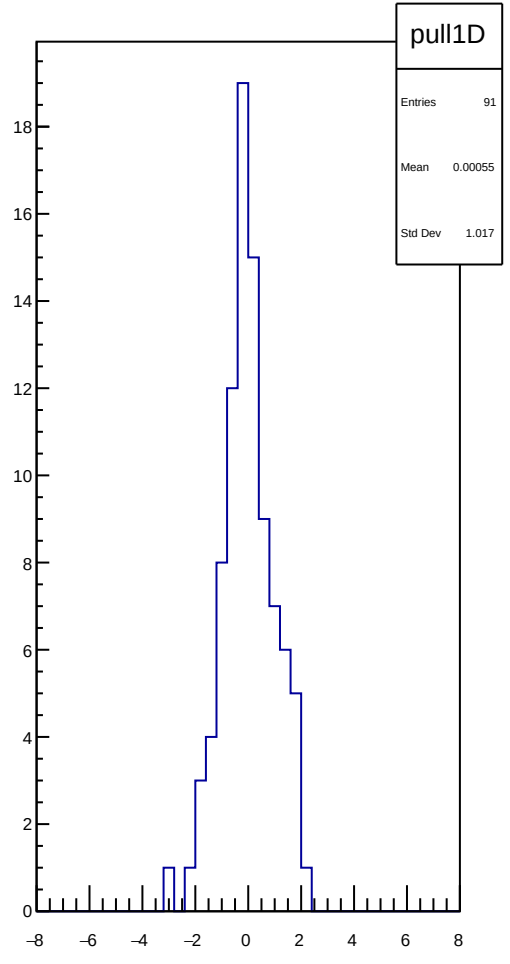

asym_atl_avg_correction_rms vs run
χ² / ndf 4715 / 90
p0 4157 ± 3.165
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

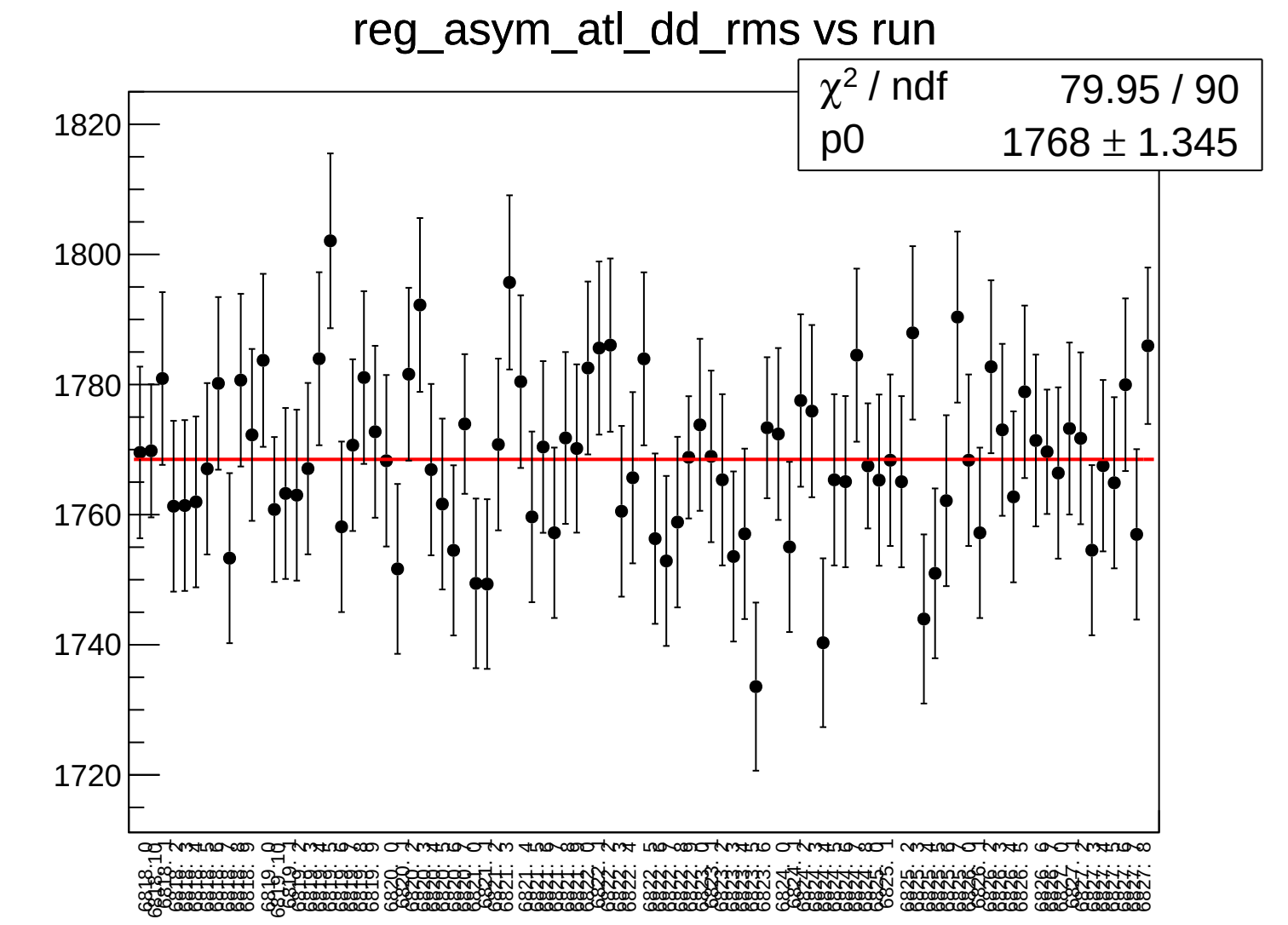

asym_atl_avg_mean vs run
×10^3
χ² / ndf 78.19 / 90
p0 −3979 ± 4877
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −198.9
Std Dev 251.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

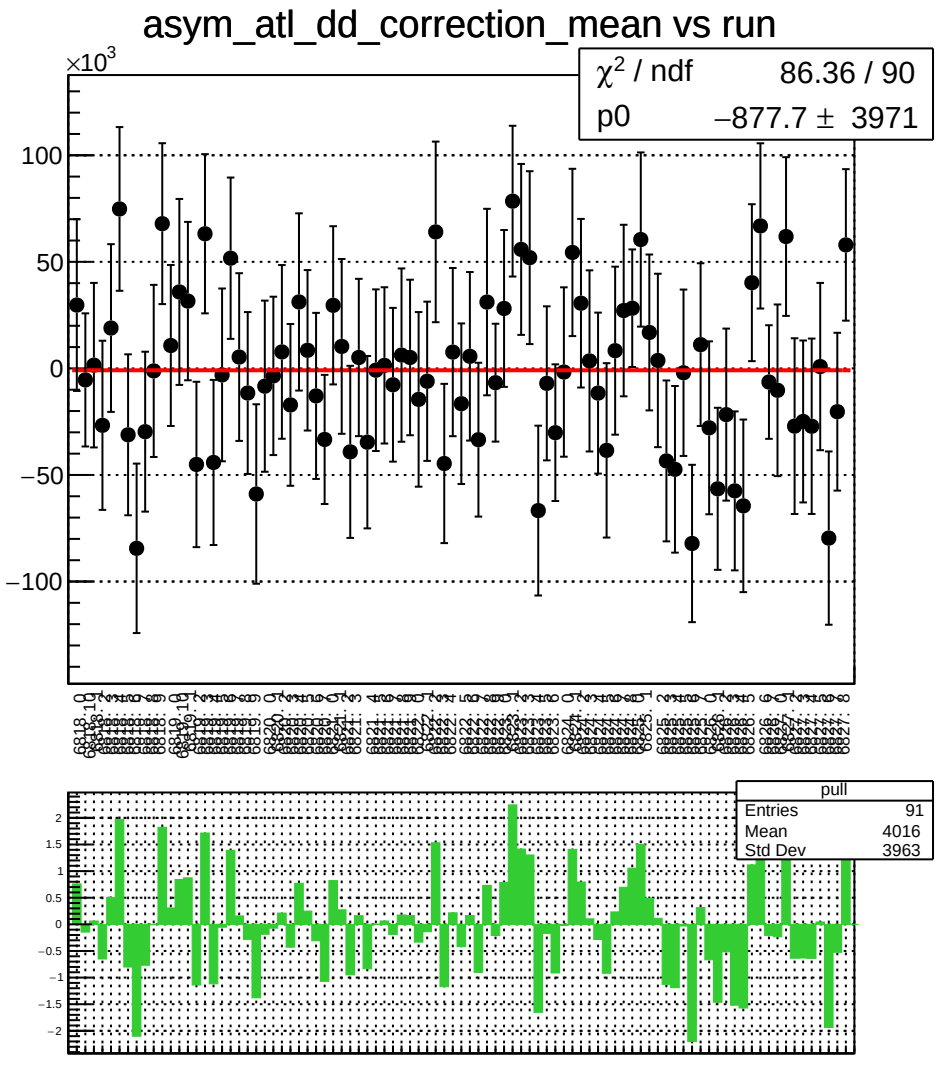

pull1D
Entries 91
Mean 0.004595
Std Dev 0.927
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

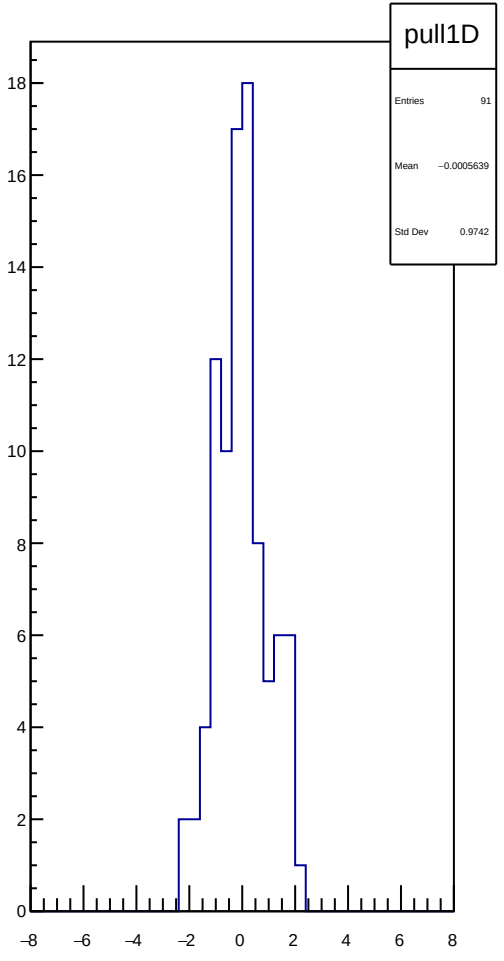

asym_atl_avg_rms vs run
χ² / ndf 3503 / 90
p0 4531 ± 3.449
6000
5500
5000
4500
4000

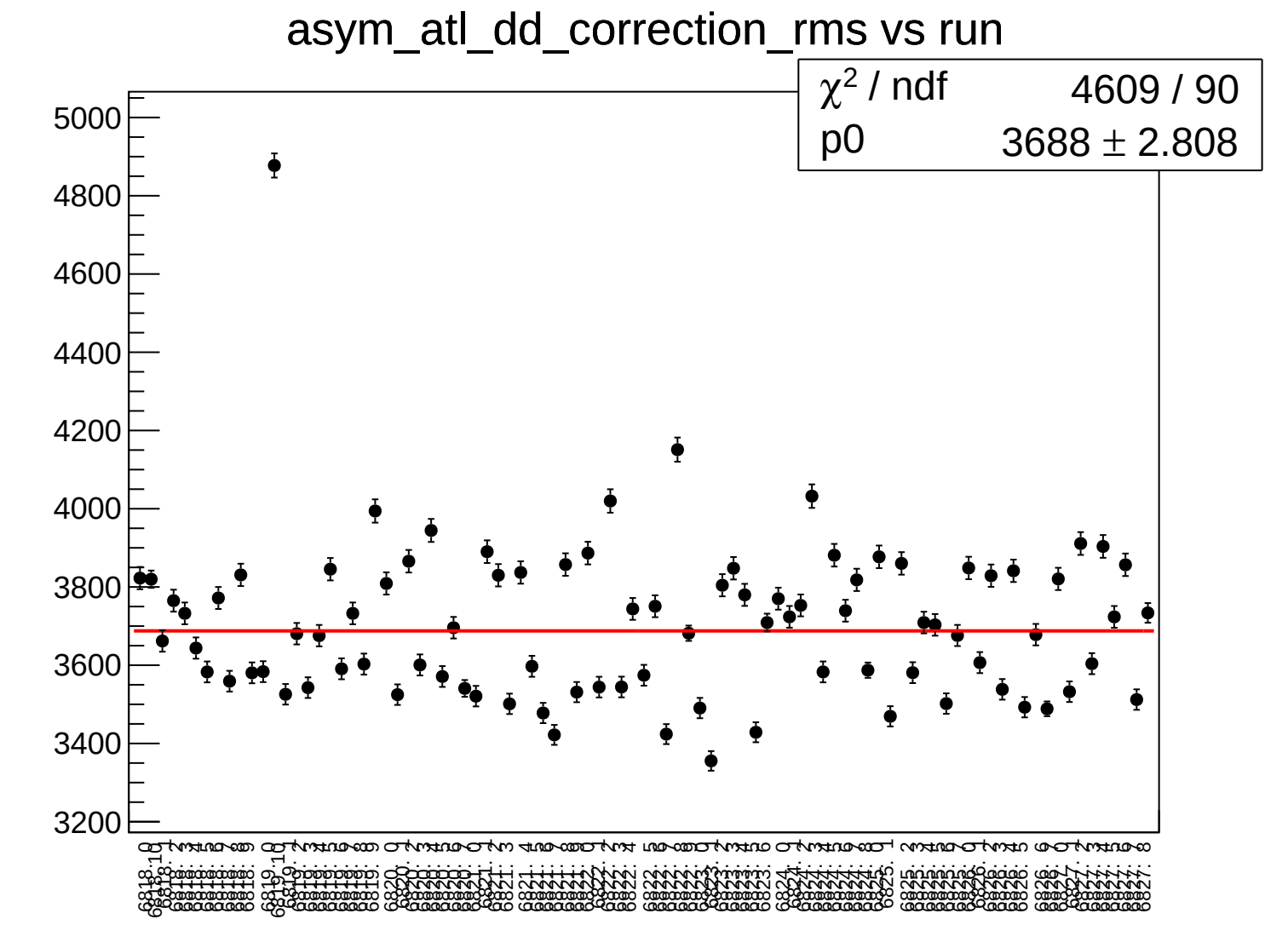

reg_asym_atl_dd_mean vs run
χ² / ndf 94.07 / 90
p0 1359 ± 1902
pull
Entries 91
Mean −1244
Std Dev 1223

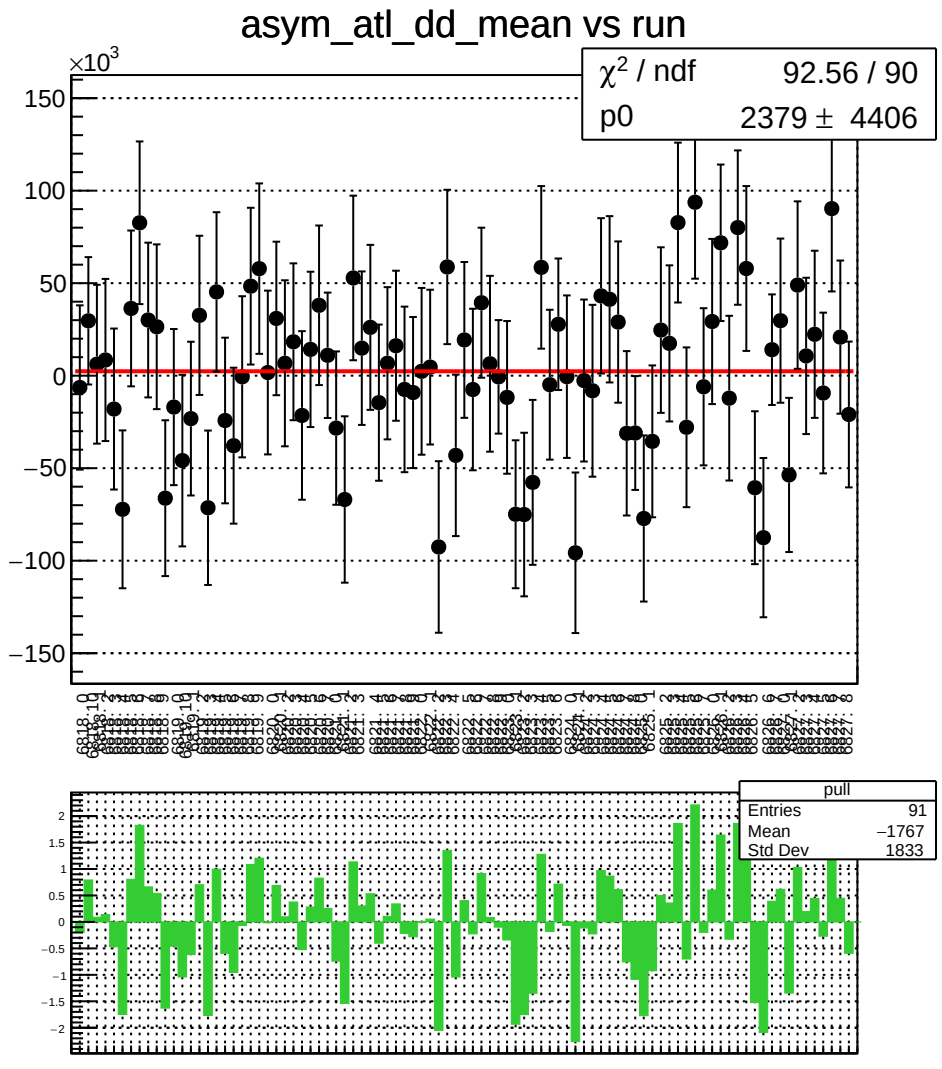

pull1D
Entries 91
Mean 0.00055
Std Dev 1.017

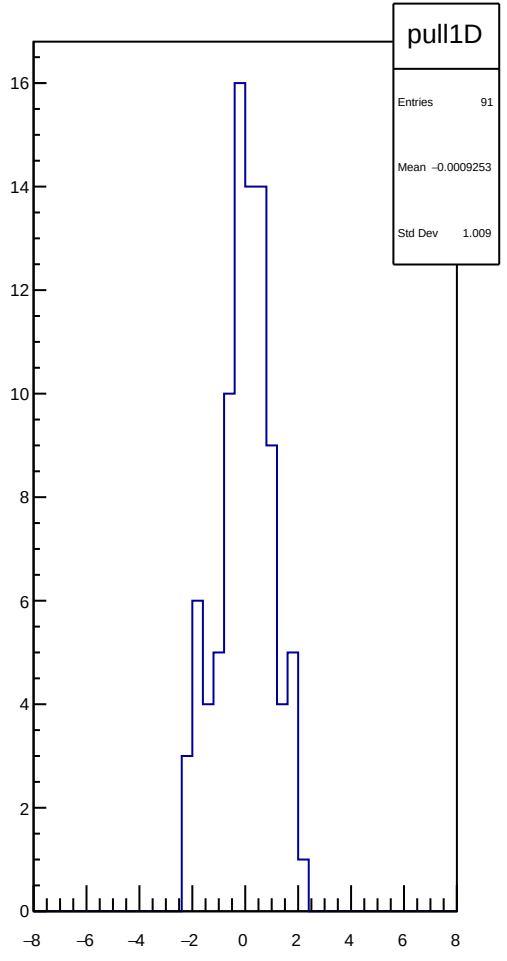

reg_asym_atl_dd_rms vs run
χ² / ndf 79.95 / 90
p0 1768 ± 1.345
1820
1800
1780
1760
1740
1720

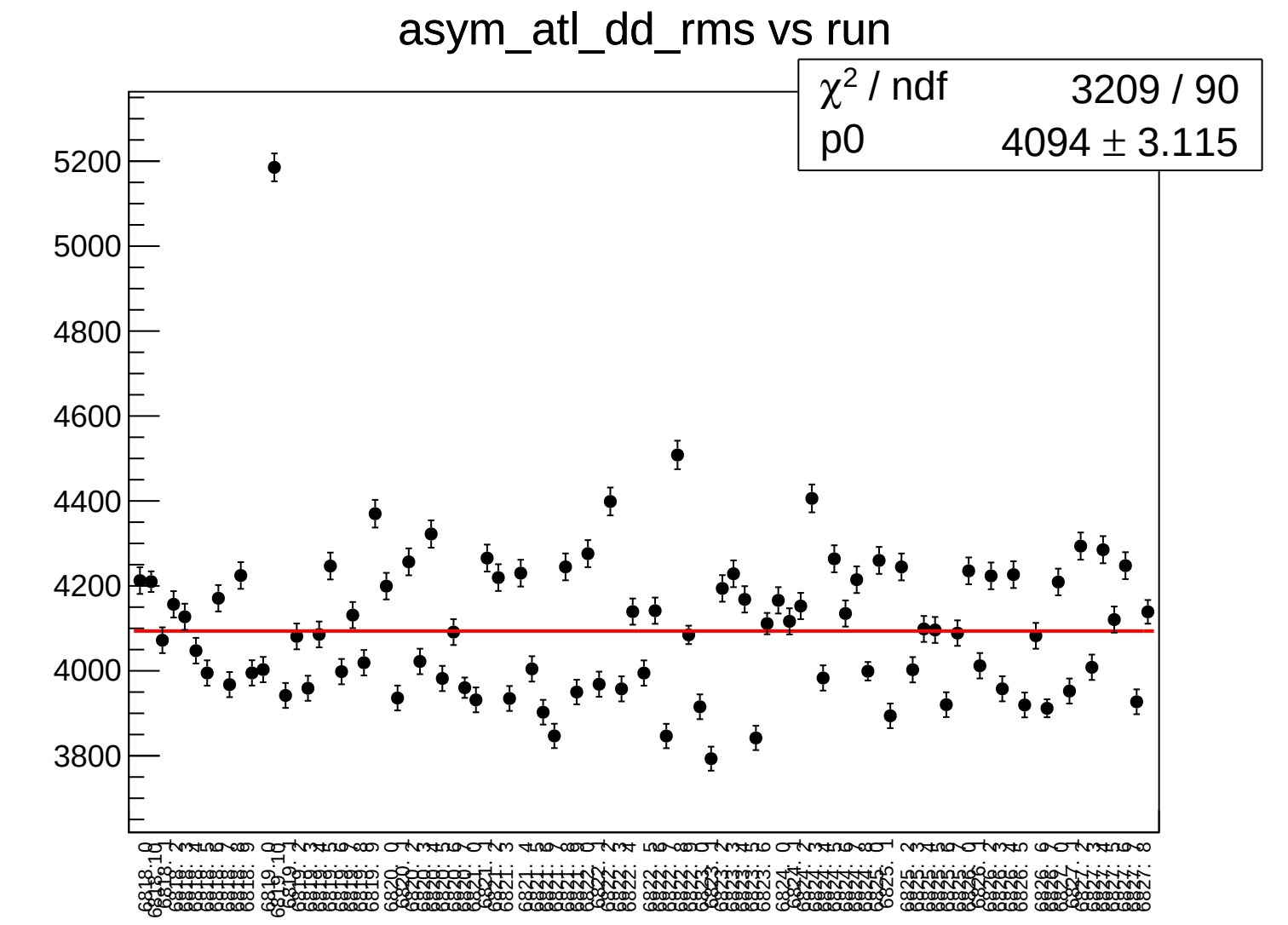

asym_atl_dd_correction_mean vs run
χ^2 / ndf 86.36 / 90
p0 −877.7 ± 3971
×10^3
100
50
0
−50
−100
pull
Entries 91
Mean 4016
Std Dev 3963
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

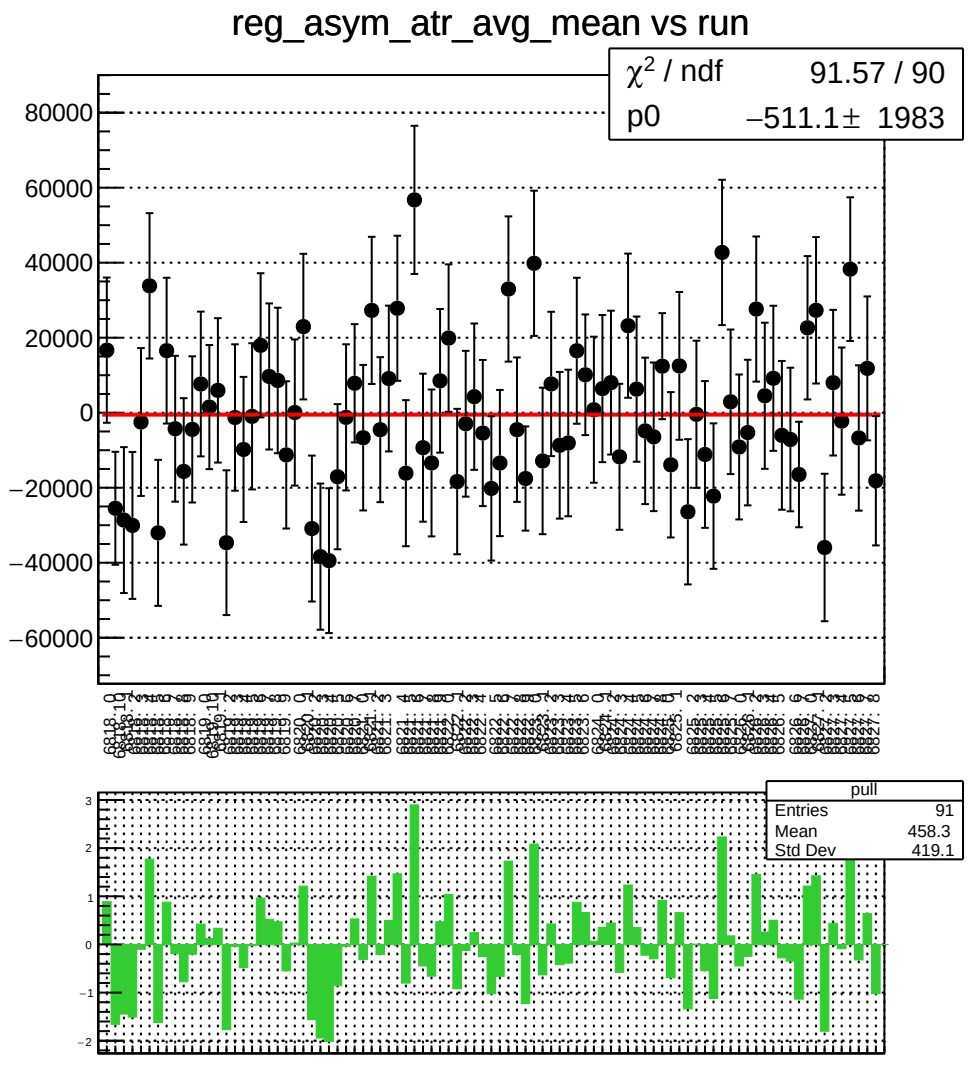

pull1D
Entries 91
Mean −0.0005639
Std Dev 0.9742
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

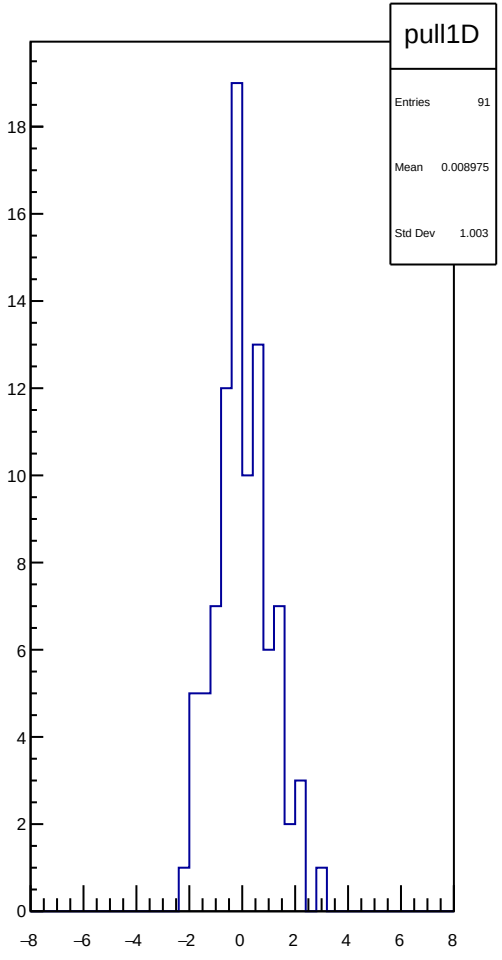

asym_atl_dd_correction_rms vs run
χ² / ndf 4609 / 90
p0 3688 ± 2.808
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

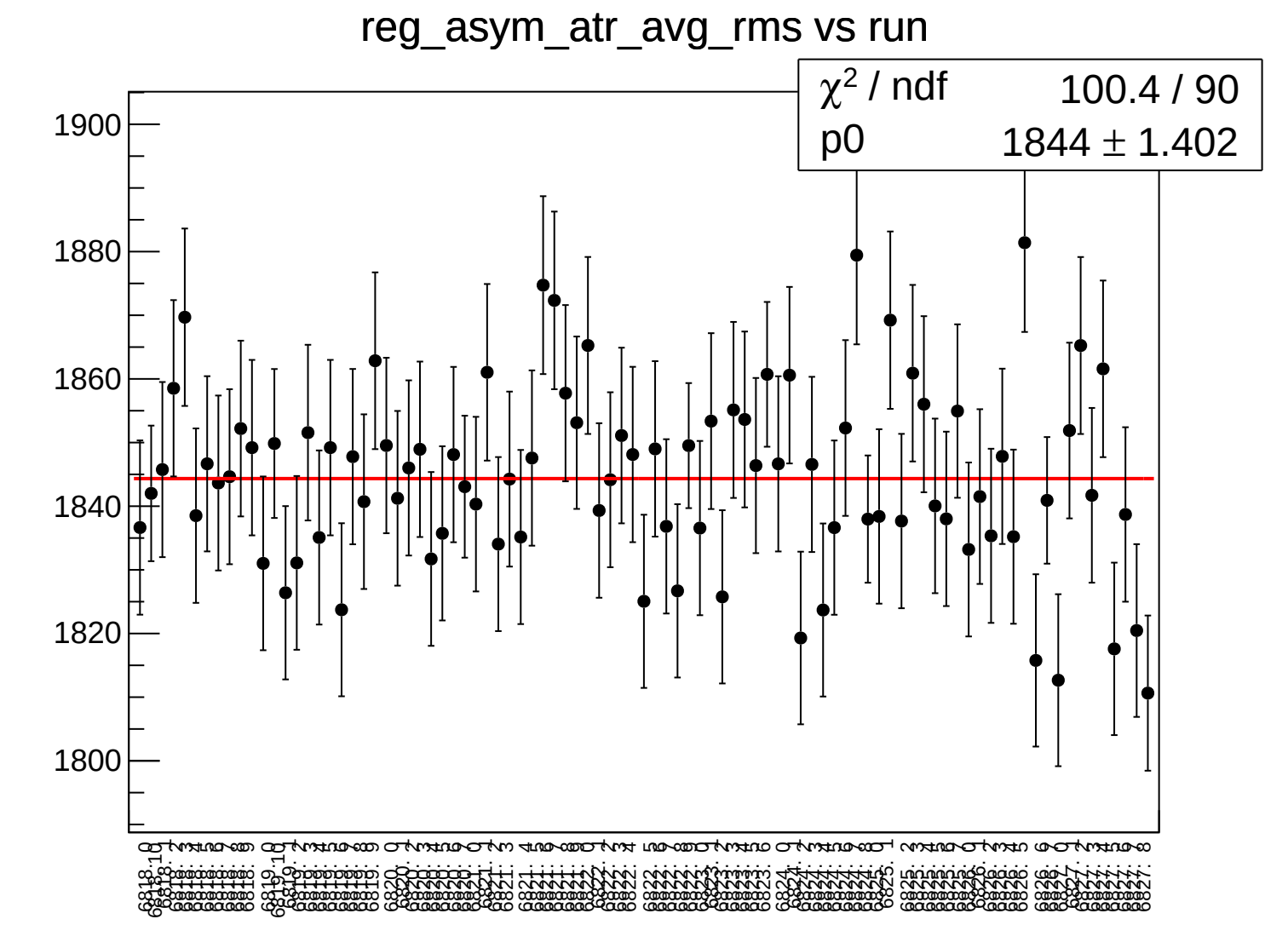

asym_atl_dd_mean vs run
×10^3
χ² / ndf 92.56 / 90
p0 2379 ± 4406
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −1767
Std Dev 1833
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

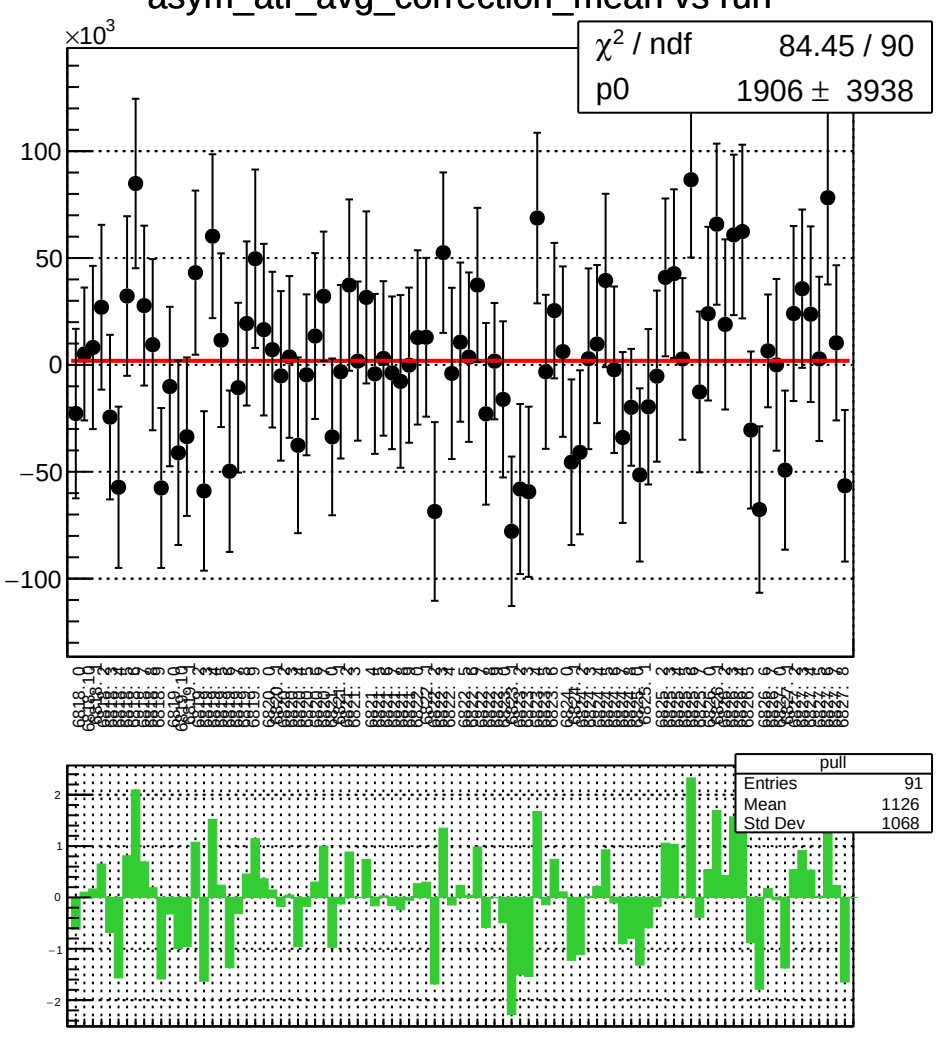

pull1D
Entries 91
Mean −0.0009253
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

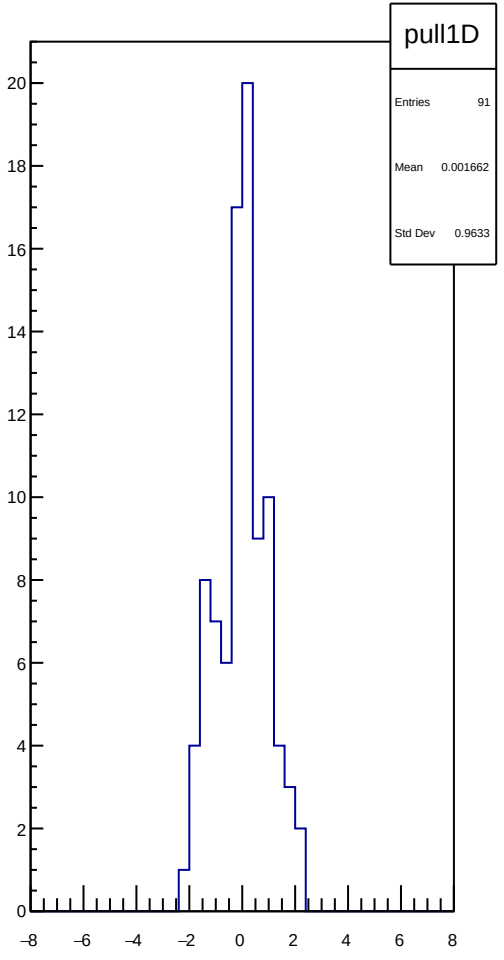

asym_atl_dd_rms vs run
χ² / ndf 3209 / 90
p0 4094 ± 3.115
5200
5000
4800
4600
4400
4200
4000
3800

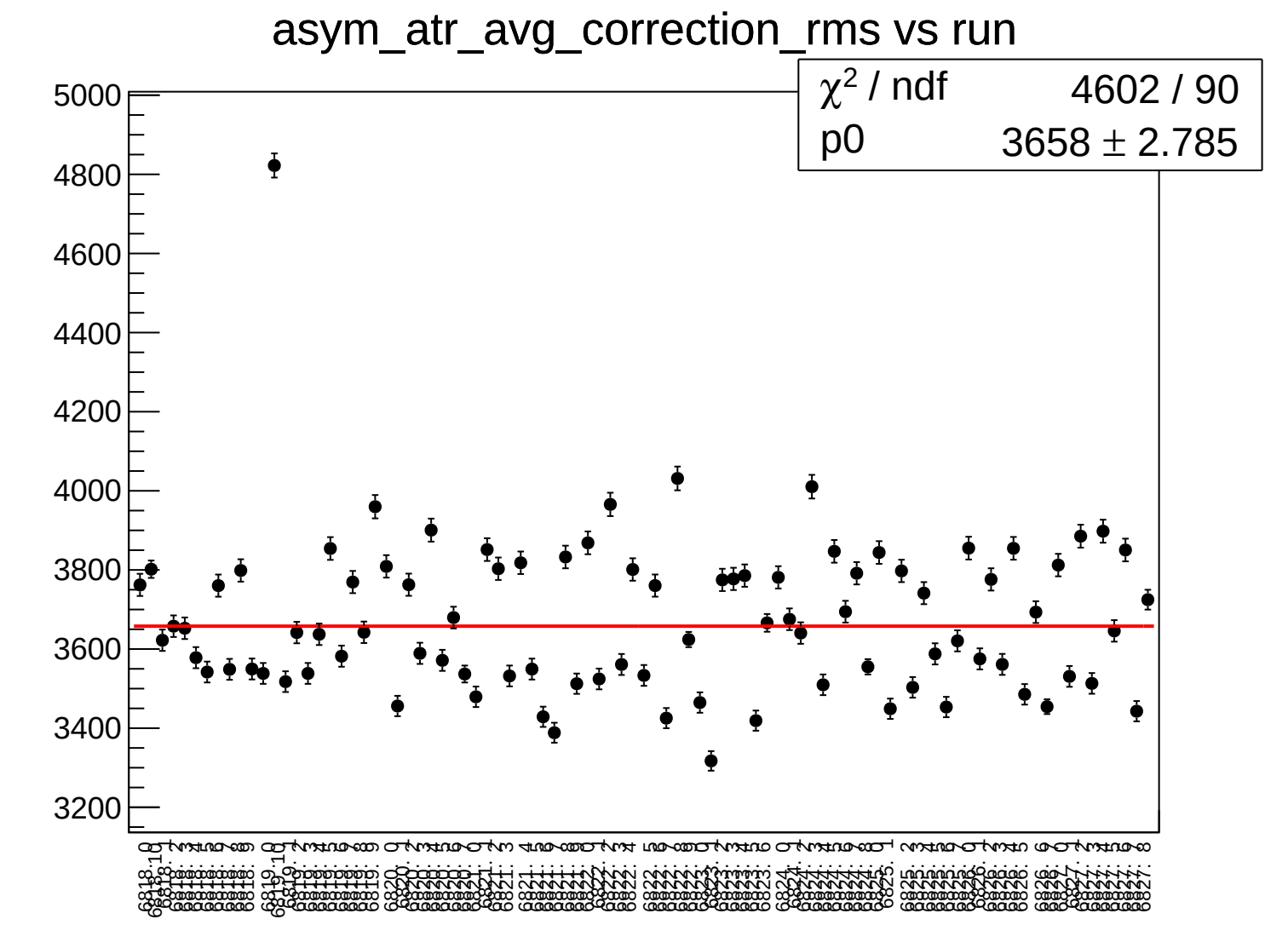

reg_asym_atr_avg_mean vs run
χ² / ndf 91.57 / 90
p0 −511.1± 1983
pull
Entries 91
Mean 458.3
Std Dev 419.1

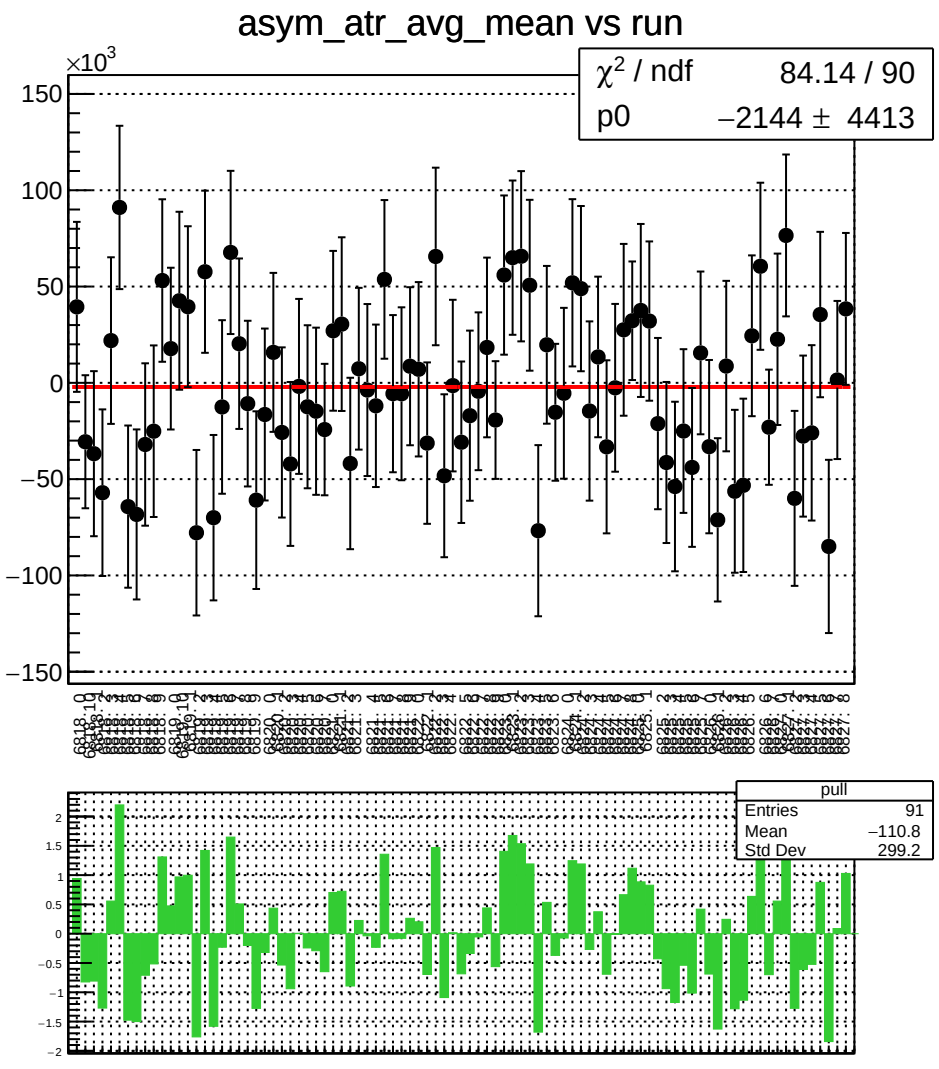

pull1D
Entries 91
Mean 0.008975
Std Dev 1.003

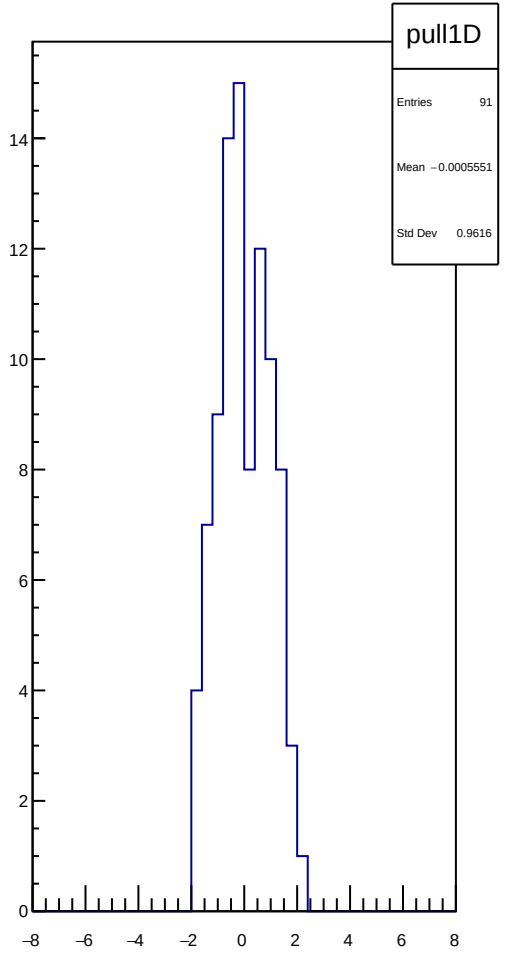

reg_asym_atr_avg_rms vs run
χ² / ndf 100.4 / 90
p0 1844 ± 1.402
1900
1880
1860
1840
1820
1800

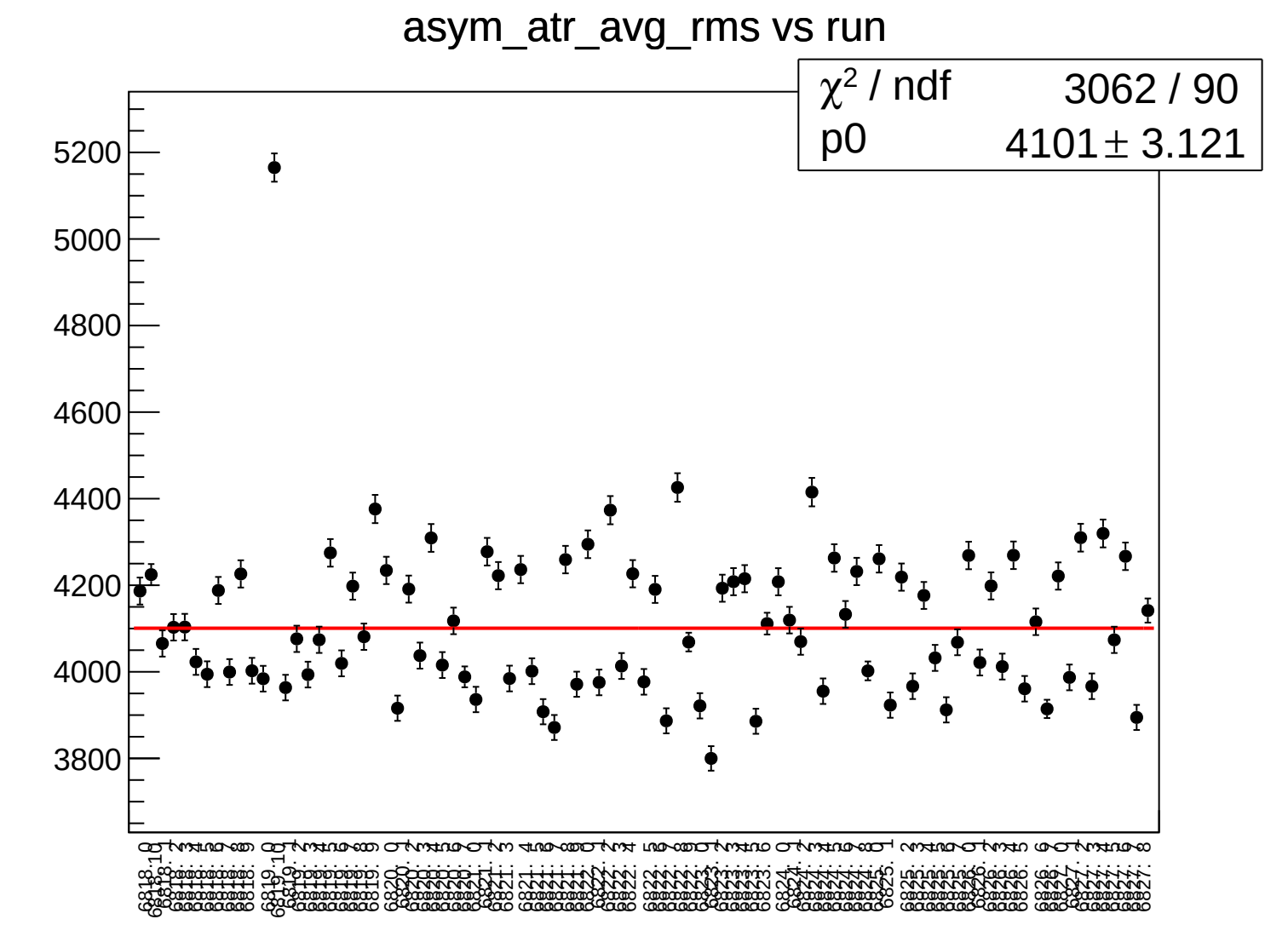

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 84.45 / 90
p0 1906 ± 3938
100
50
0
−50
−100
pull
Entries 91
Mean 1126
Std Dev 1068
2
1
0
−1
−2

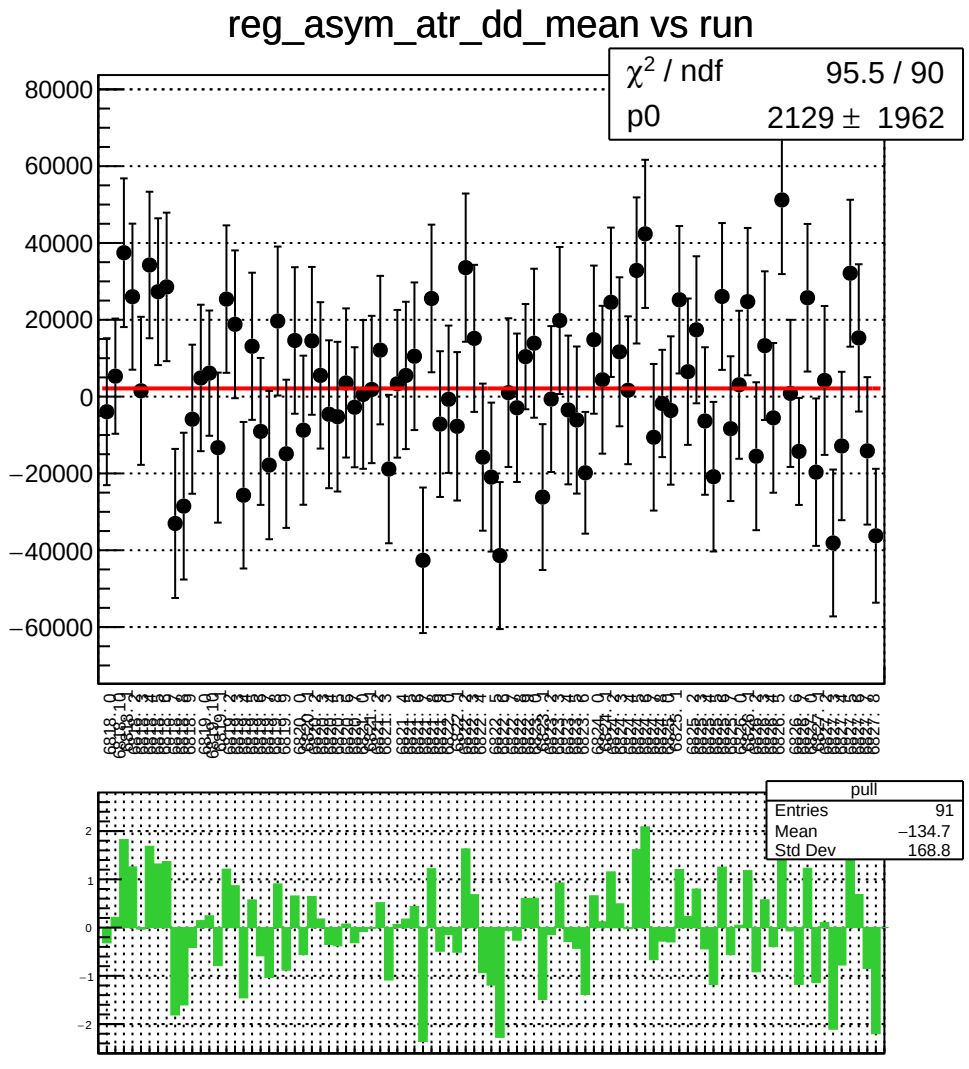

pull1D
Entries 91
Mean 0.001662
Std Dev 0.9633
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

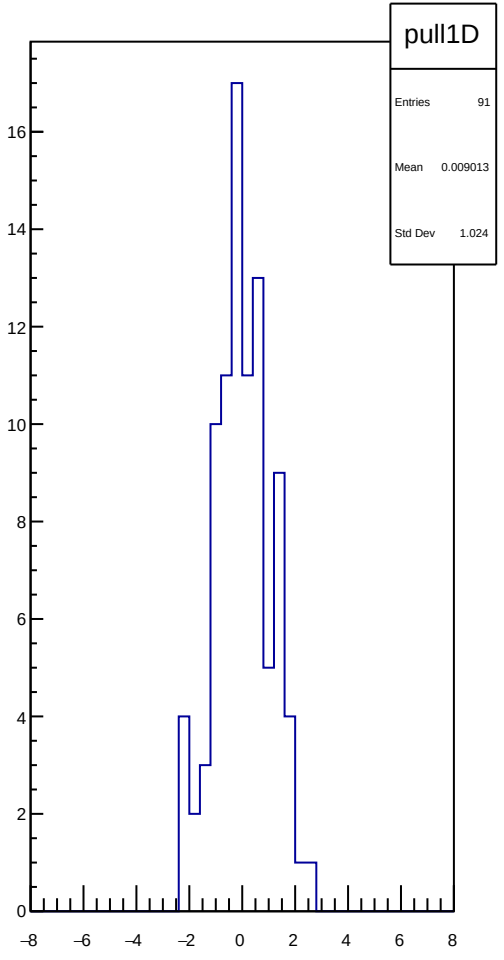

asym_atr_avg_correction_rms vs run
χ² / ndf 4602 / 90
p0 3658 ± 2.785
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

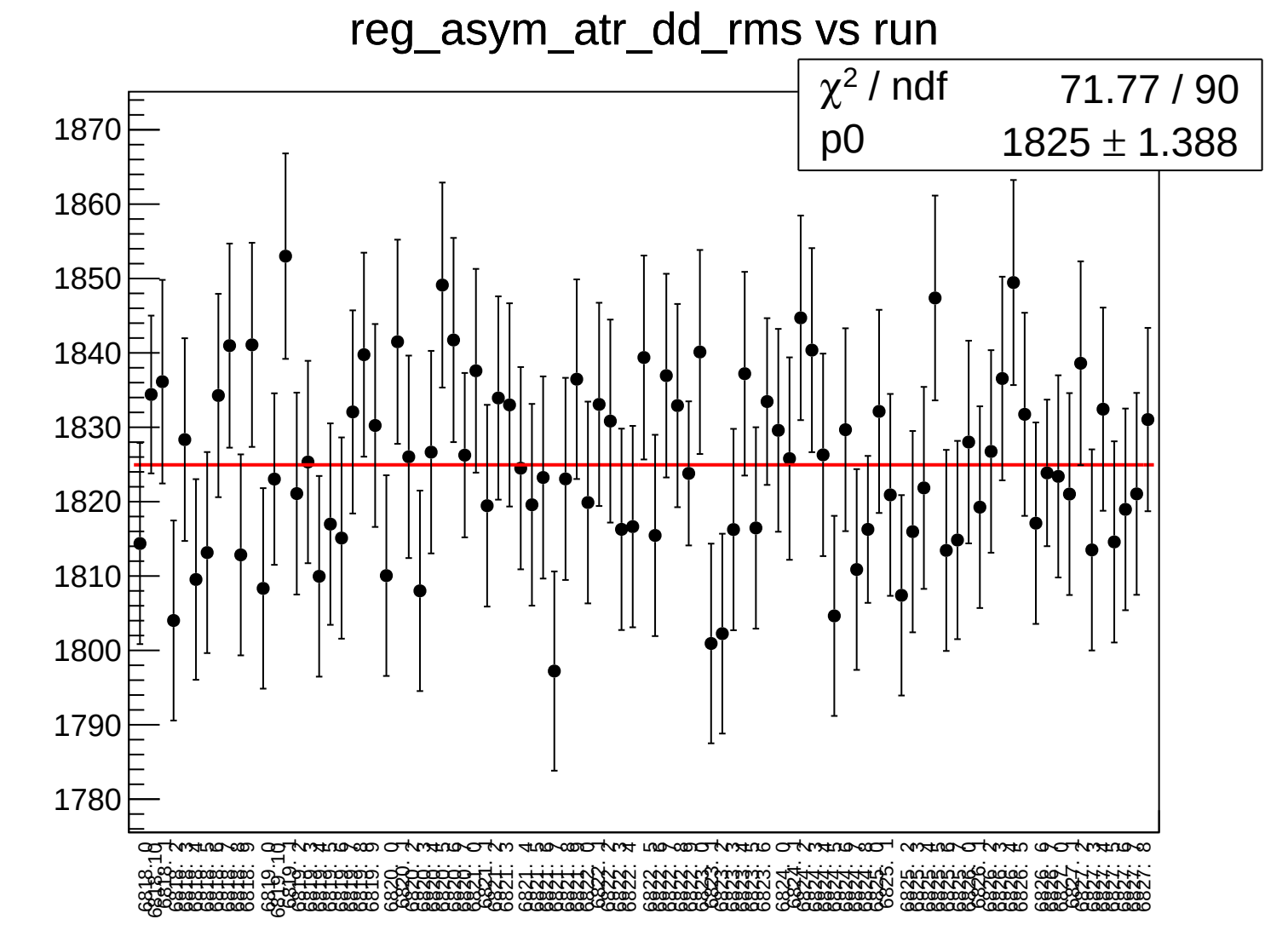

asym_atr_avg_mean vs run
×10^3
χ² / ndf 84.14 / 90
p0 −2144 ± 4413
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −110.8
Std Dev 299.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

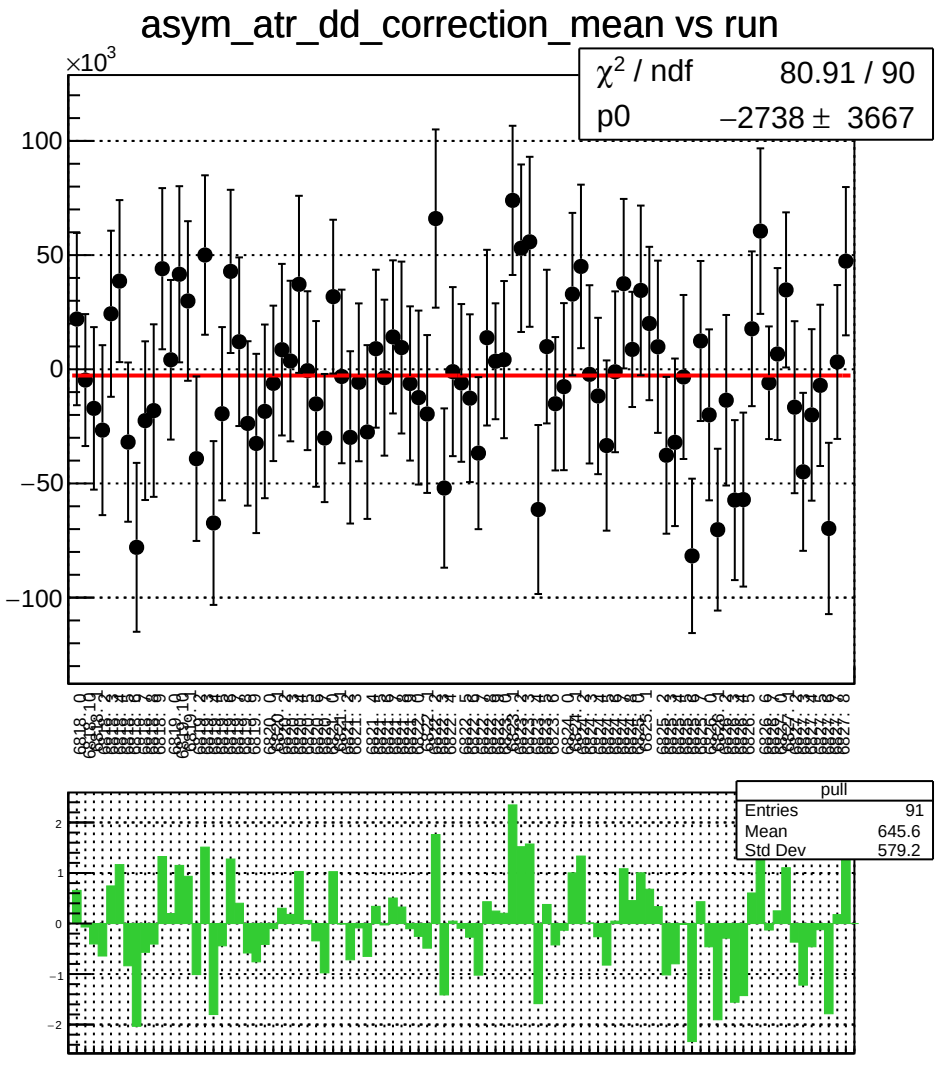

pull1D
Entries 91
Mean −0.0005551
Std Dev 0.9616
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

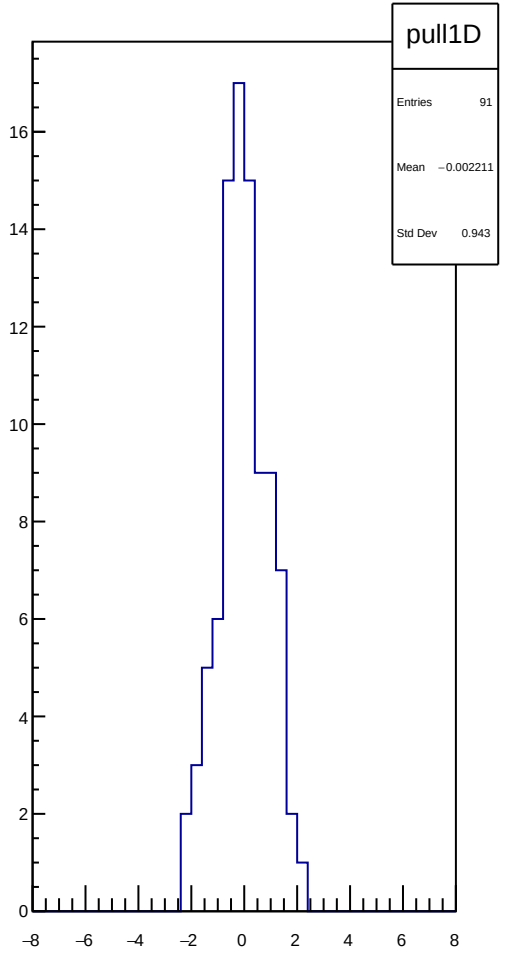

asym_atr_avg_rms vs run
χ² / ndf 3062 / 90
p0 4101 ± 3.121
5200
5000
4800
4600
4400
4200
4000
3800

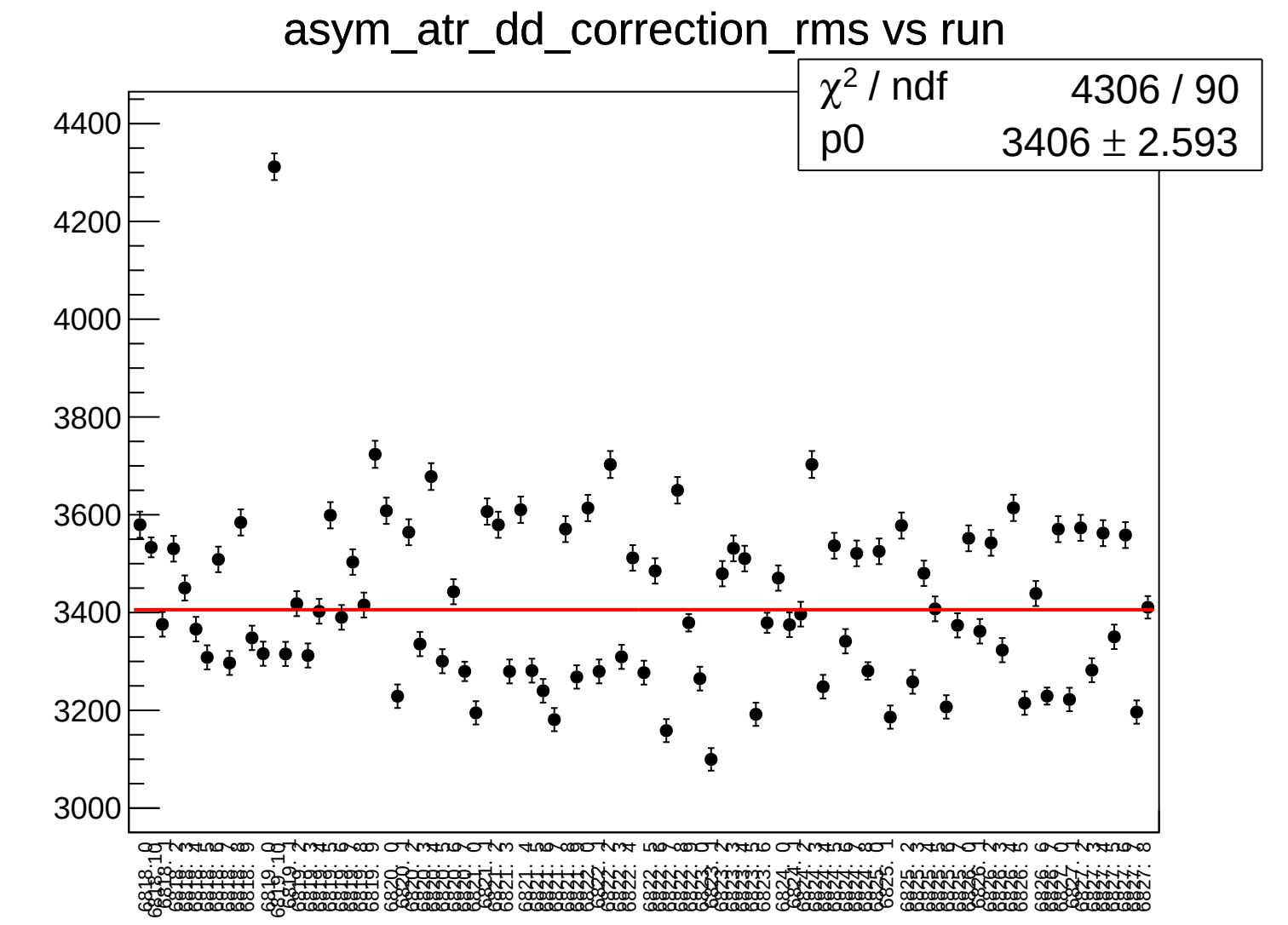

reg_asym_atr_dd_mean vs run
χ² / ndf 95.5 / 90
p0 2129 ± 1962
pull
Entries 91
Mean −134.7
Std Dev 168.8

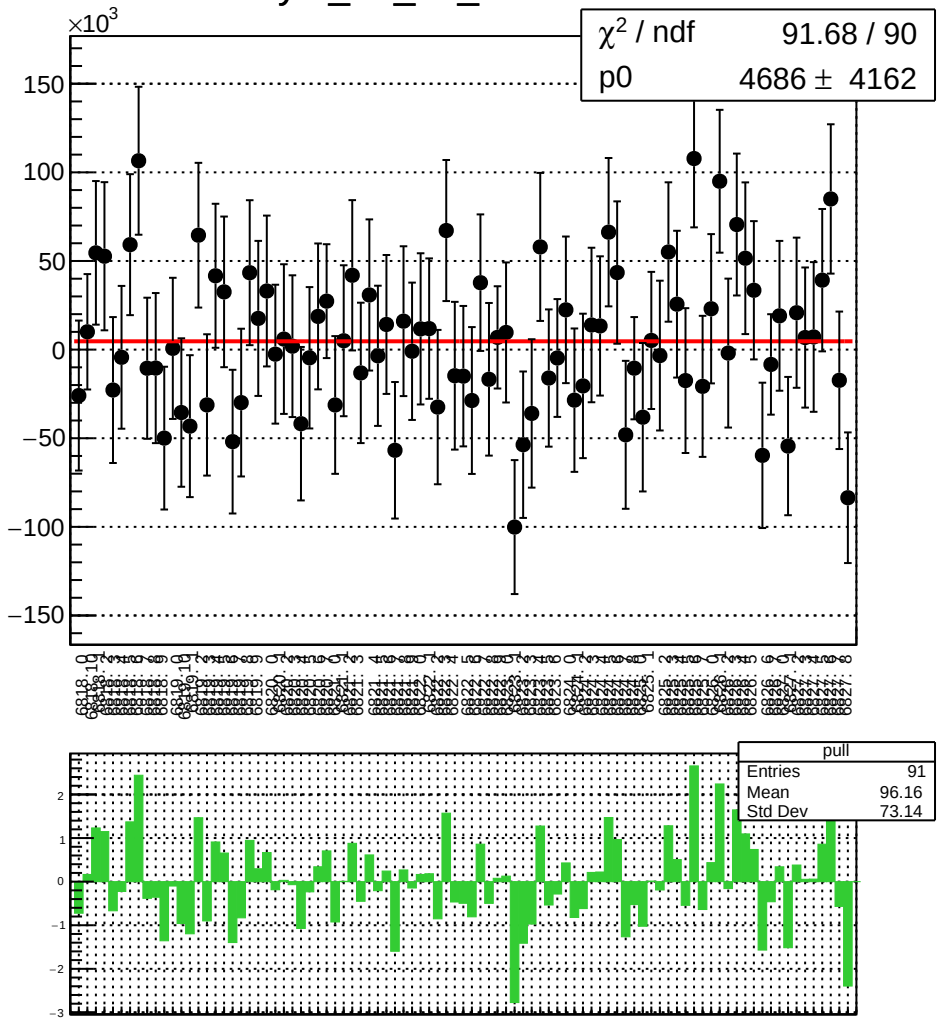

pull1D
Entries 91
Mean 0.009013
Std Dev 1.024

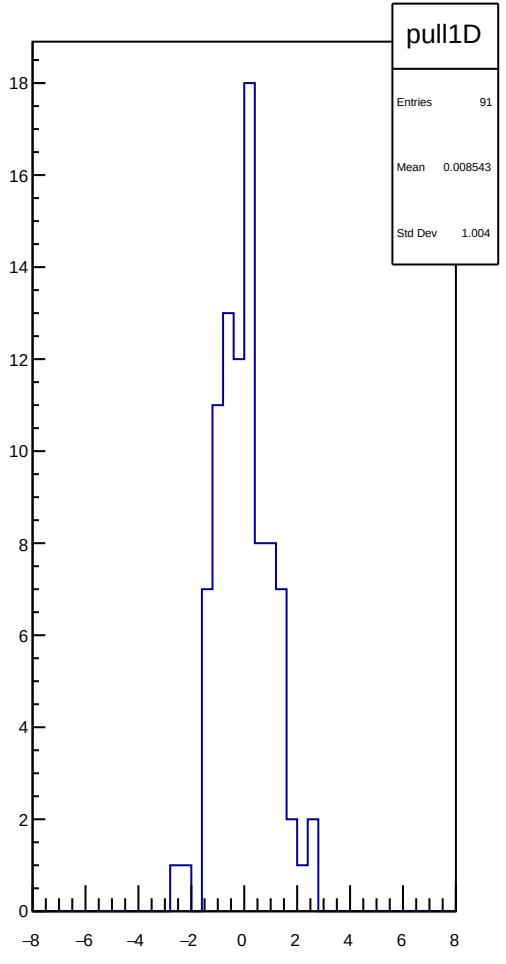

reg_asym_atr_dd_rms vs run
χ^2 / ndf 71.77 / 90
p0 1825 ± 1.388
1870
1860
1850
1840
1830
1820
1810
1800
1790
1780

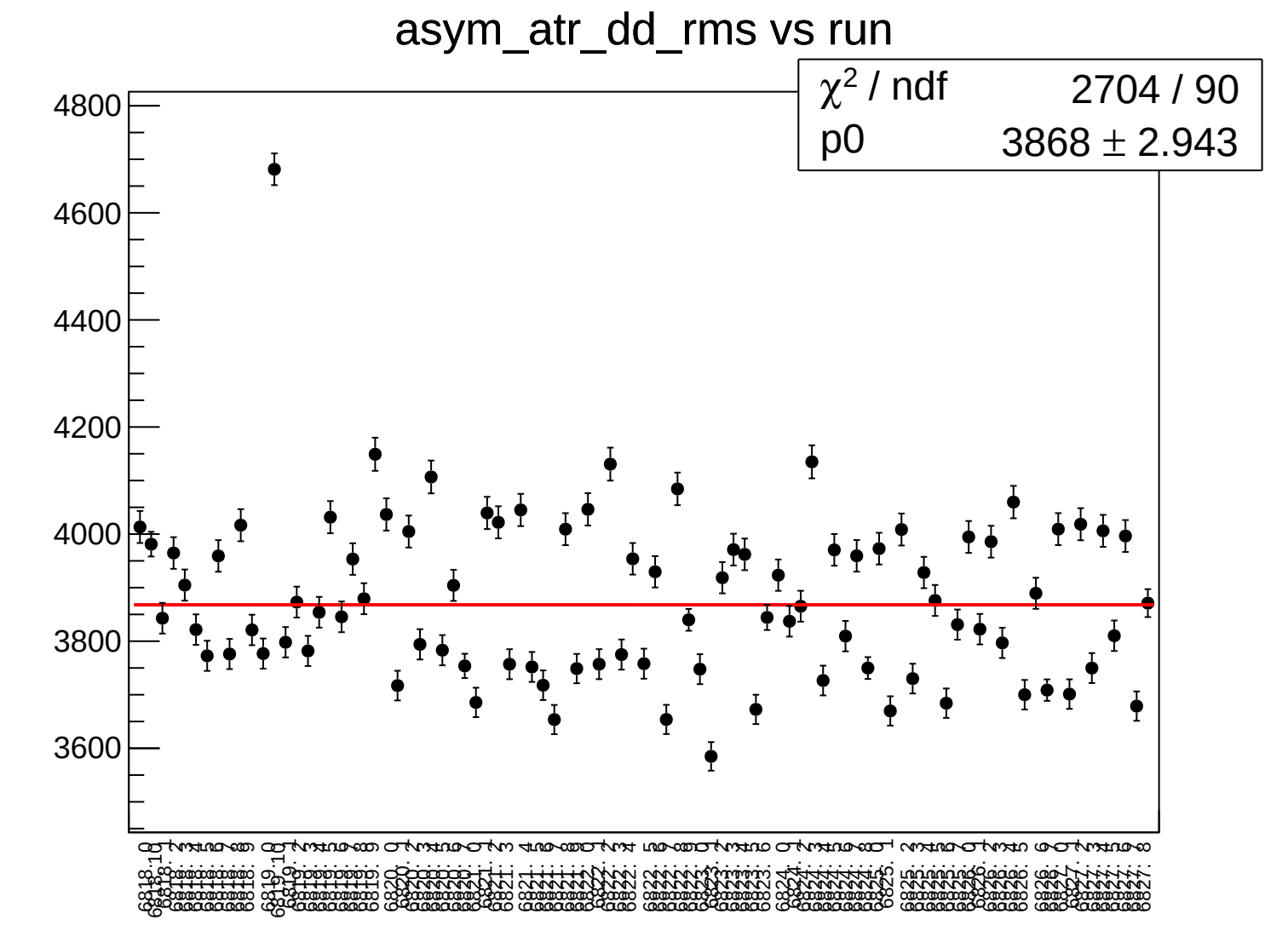

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 80.91 / 90
p0 −2738 ± 3667
100
50
0
−50
−100
pull
Entries 91
Mean 645.6
Std Dev 579.2
2
1
0
−1
−2

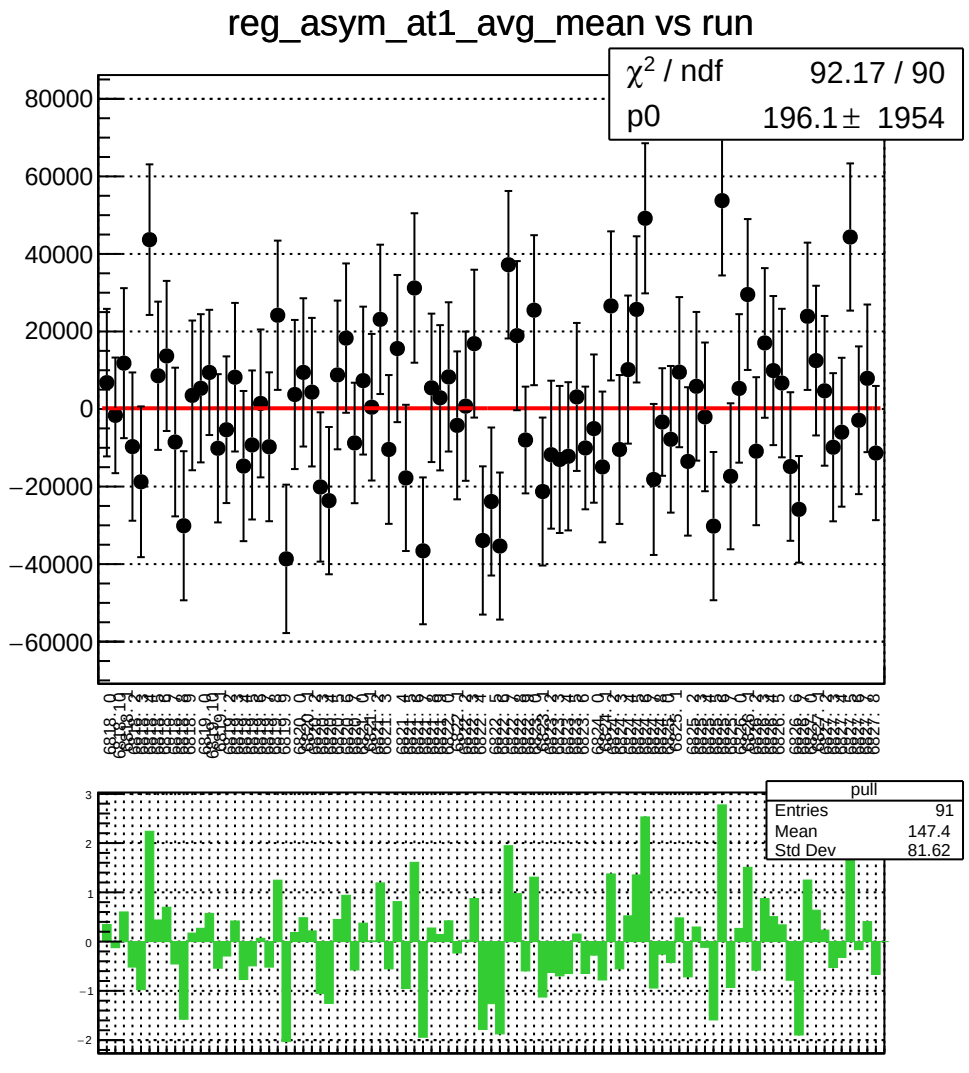

pull1D
Entries 91
Mean −0.002211
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

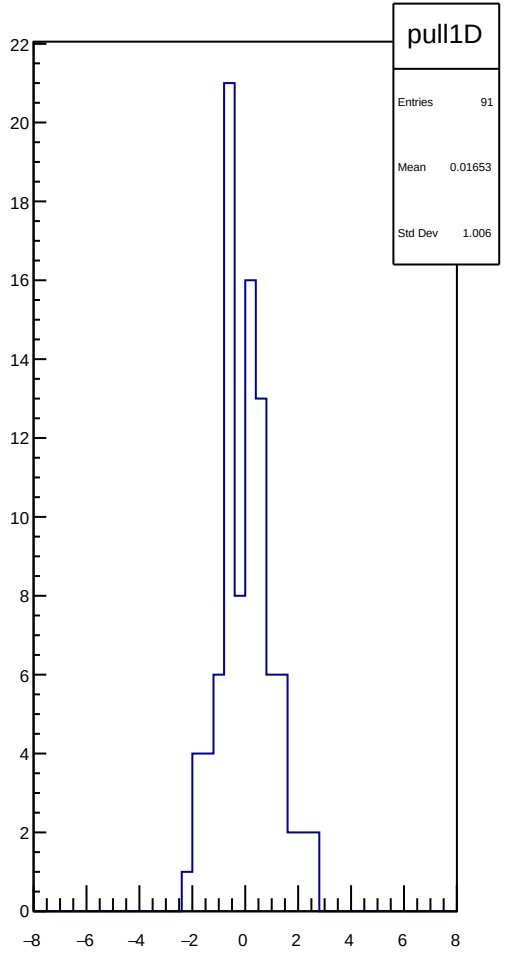

asym_atr_dd_correction_rms vs run
χ² / ndf 4306 / 90
p0 3406 ± 2.593
4400
4200
4000
3800
3600
3400
3200
3000

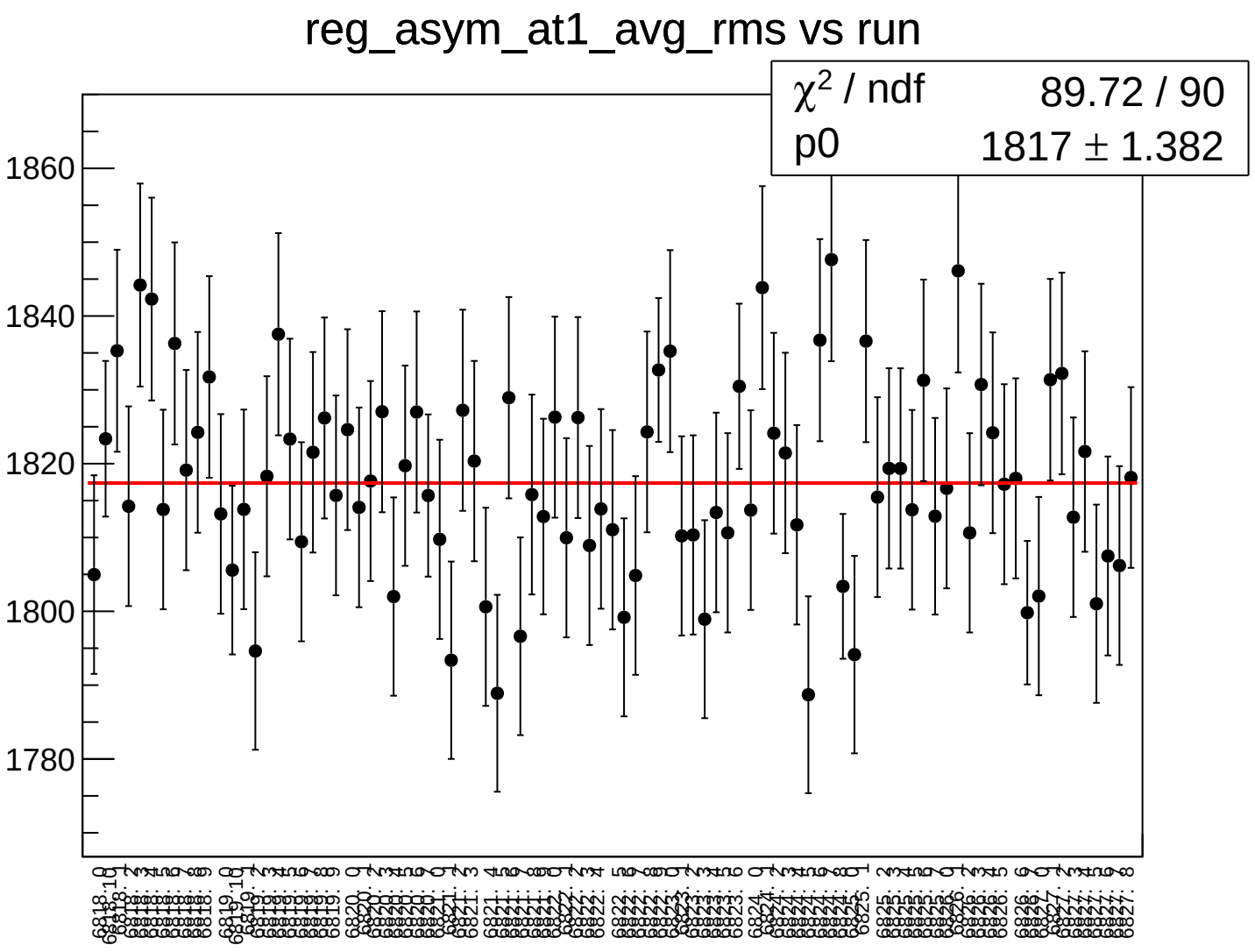

asym_atr_dd_mean vs run
×10^3
χ² / ndf 91.68 / 90
p0 4686 ± 4162
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 96.16
Std Dev 73.14
2
1
0
−1
−2
−3

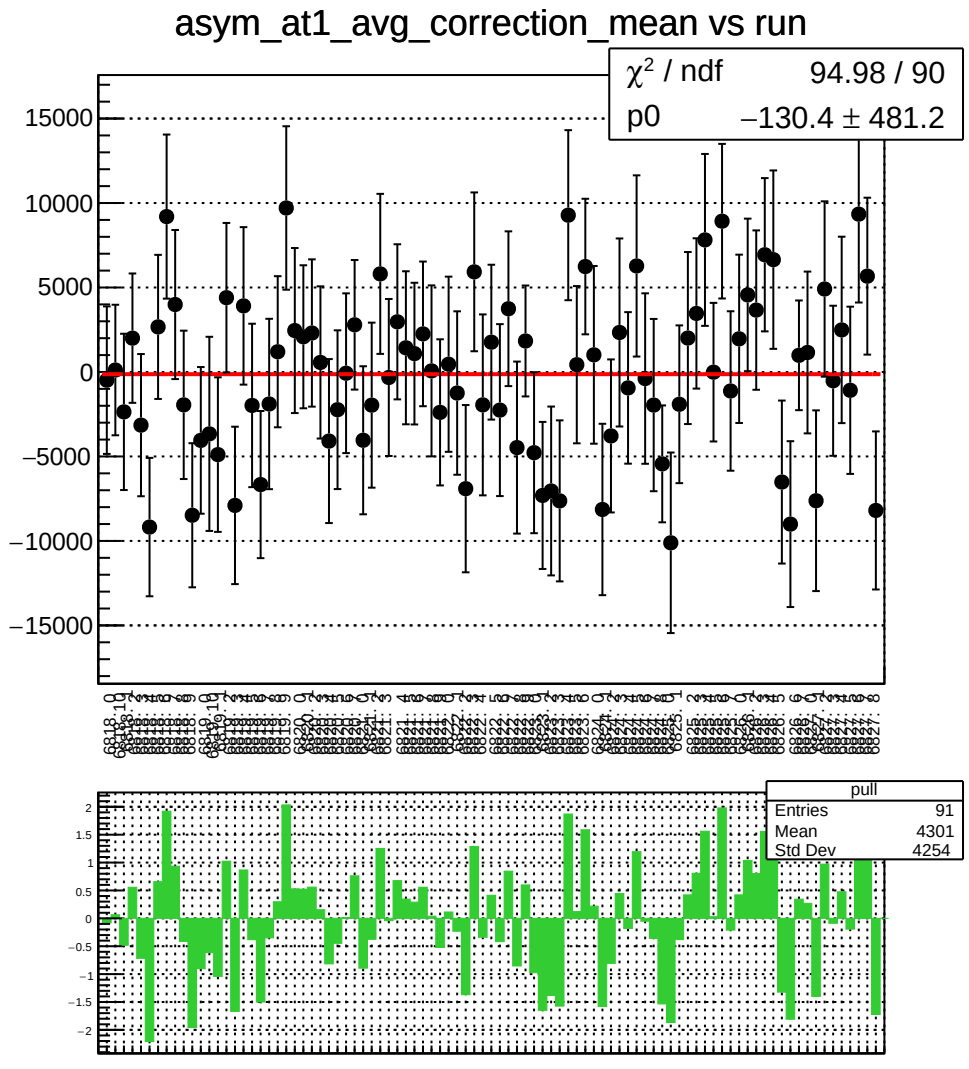

pull1D
Entries 91
Mean 0.008543
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

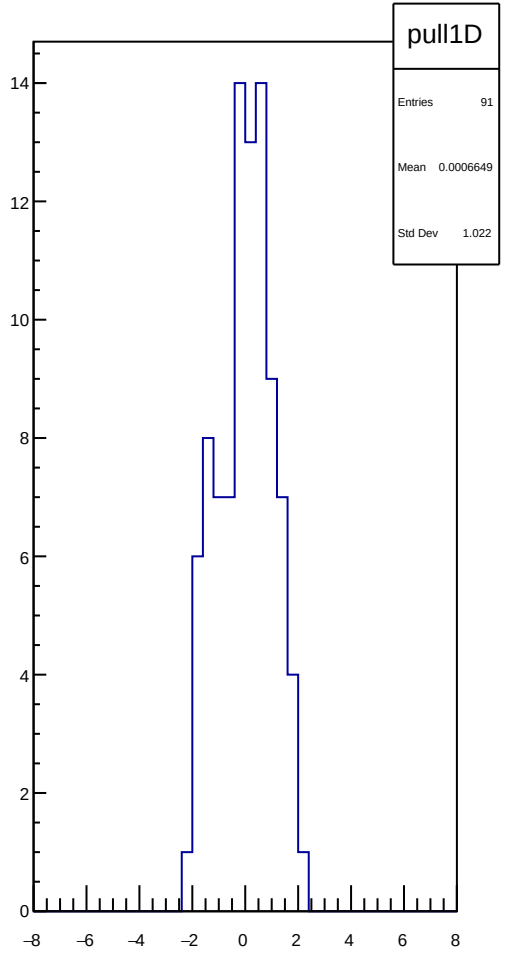

asym_atr_dd_rms vs run
χ² / ndf 2704 / 90
p0 3868 ± 2.943
4800
4600
4400
4200
4000
3800
3600

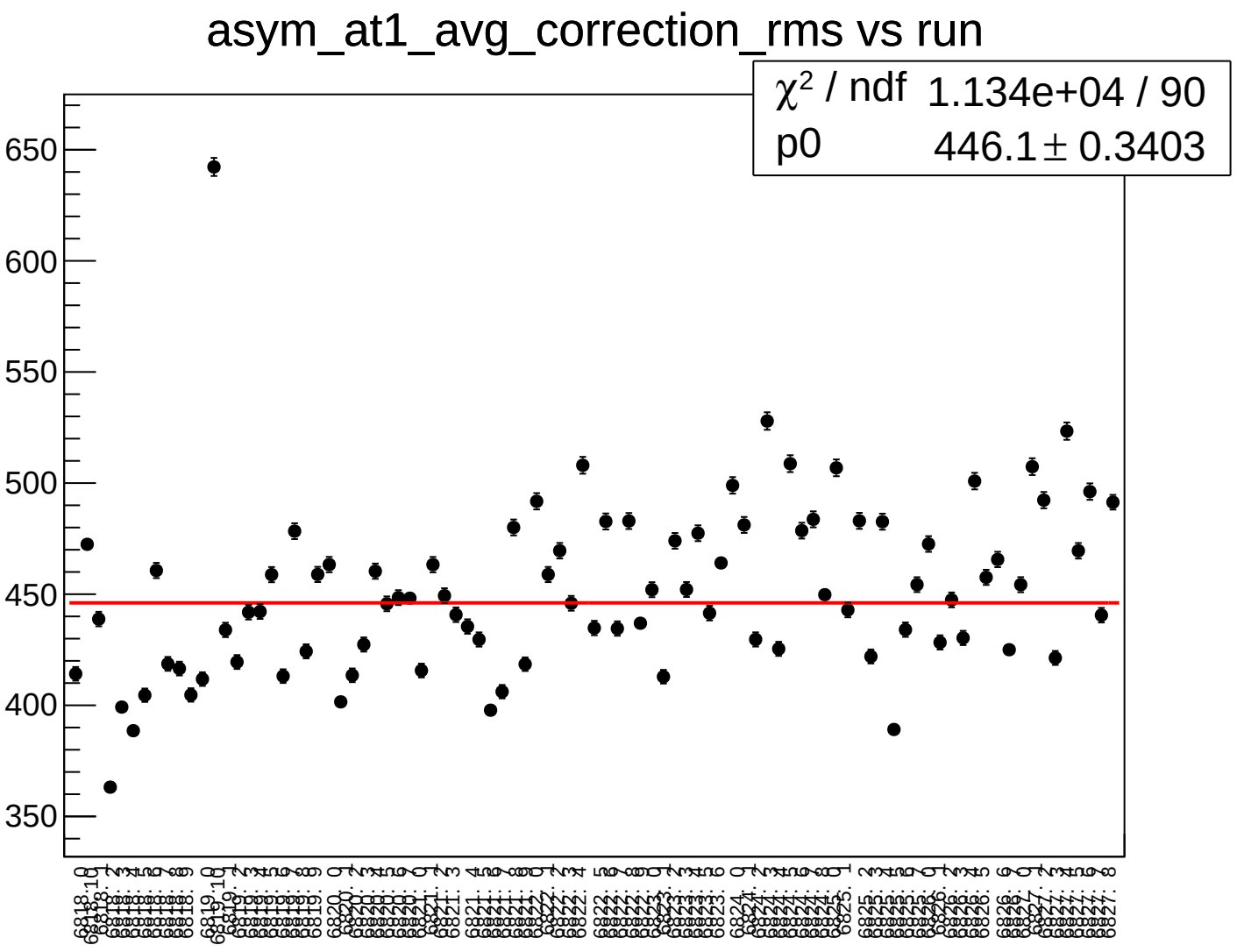

reg_asym_at1_avg_mean vs run
χ² / ndf 92.17 / 90
p0 196.1 ± 1954
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 147.4
Std Dev 81.62
3
2
1
0
−1
−2

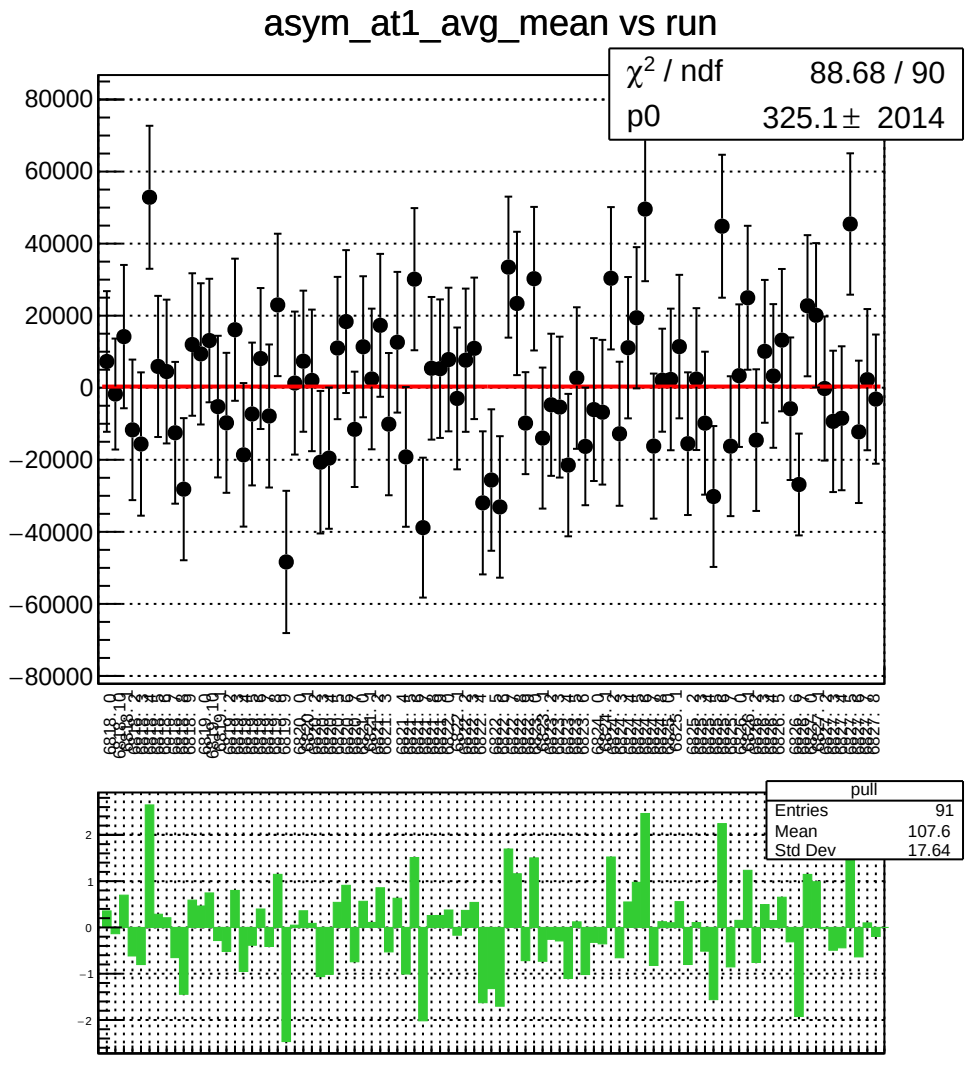

pull1D
Entries 91
Mean 0.01653
Std Dev 1.006
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

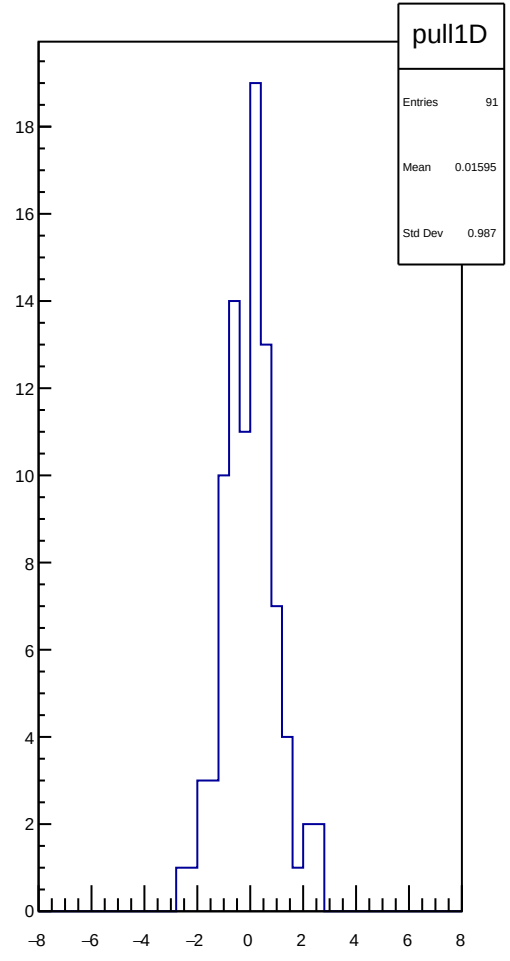

reg_asym_at1_avg_rms vs run
χ^2 / ndf 89.72 / 90
p0 1817 ± 1.382
1860
1840
1820
1800
1780

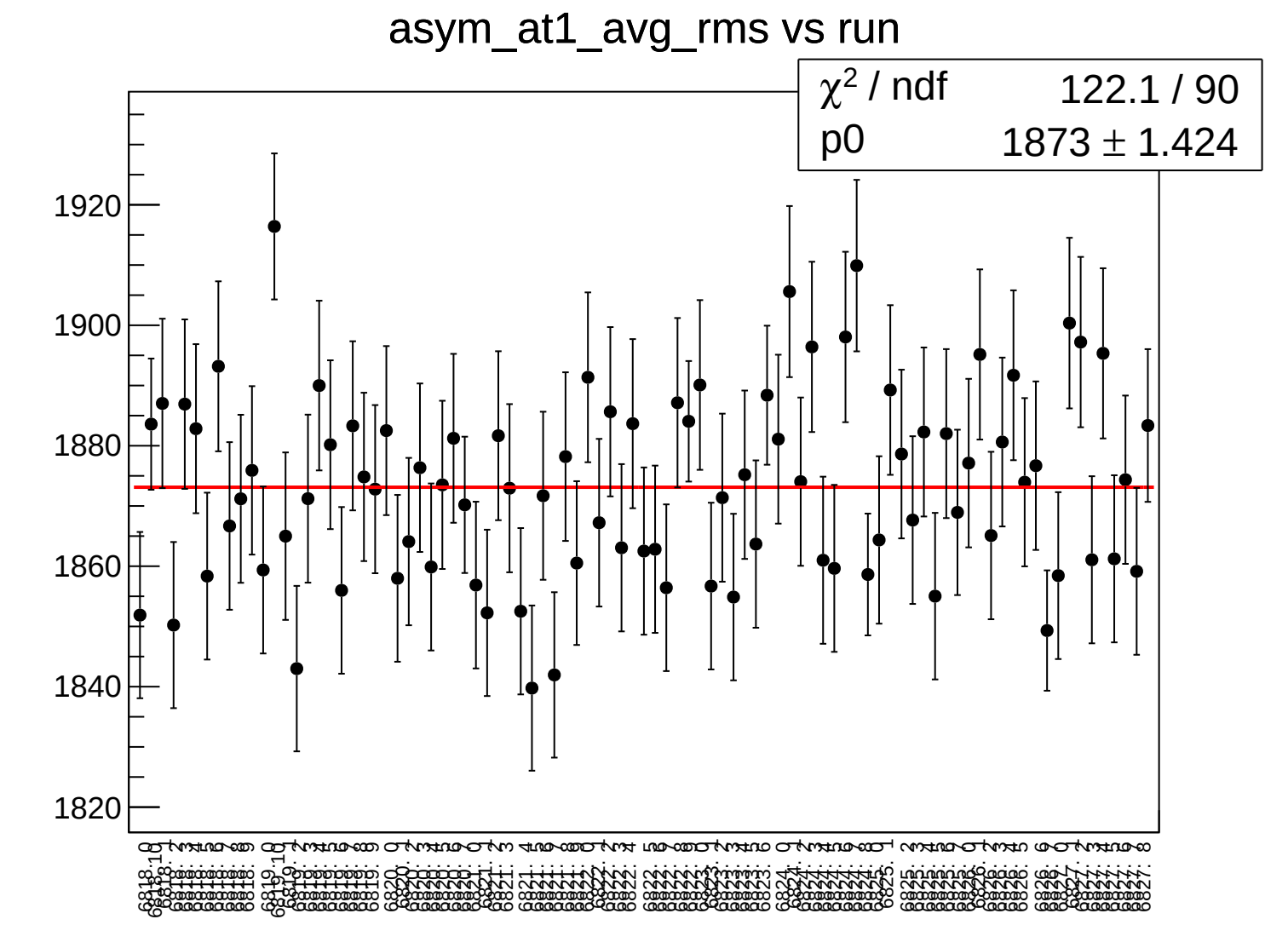

asym_at1_avg_correction_mean vs run
χ² / ndf 94.98 / 90
p0 −130.4 ± 481.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 4301
Std Dev 4254
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

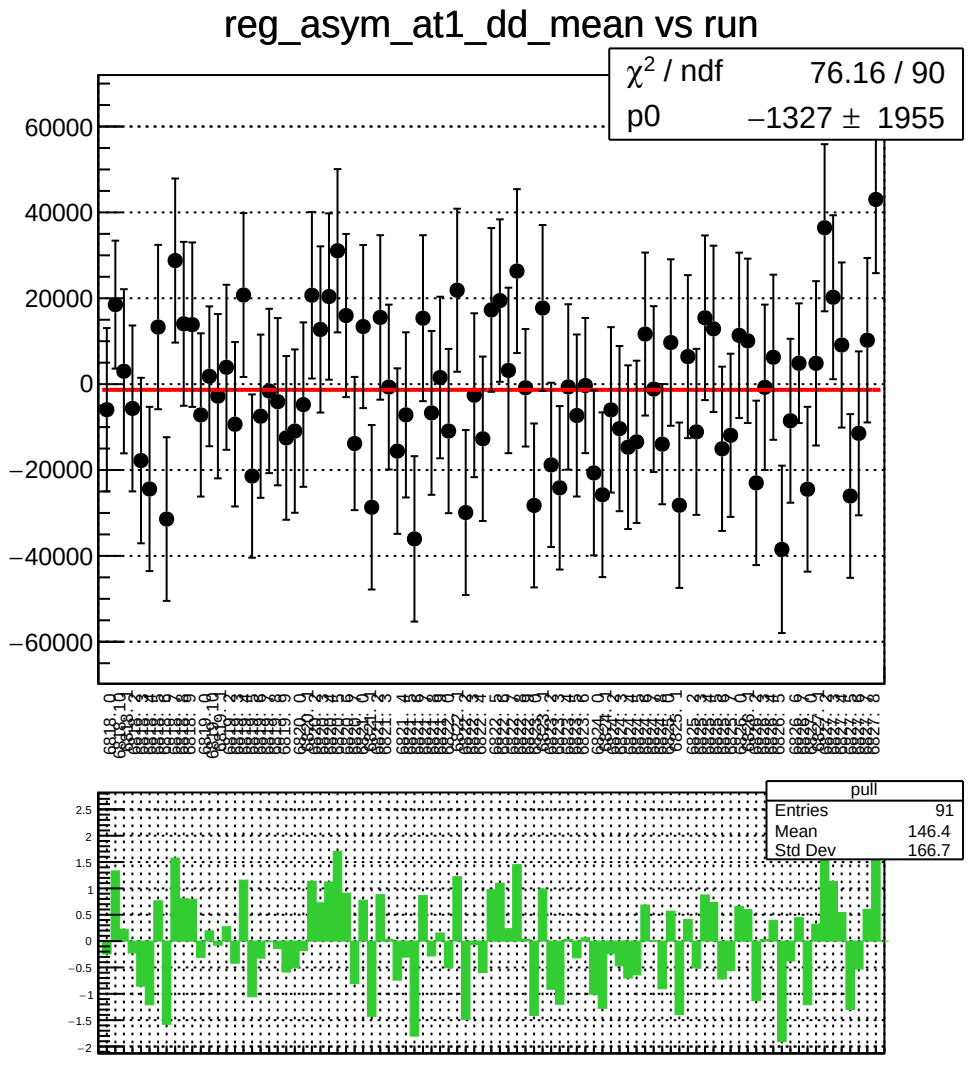

pull1D
Entries 91
Mean 0.0006649
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

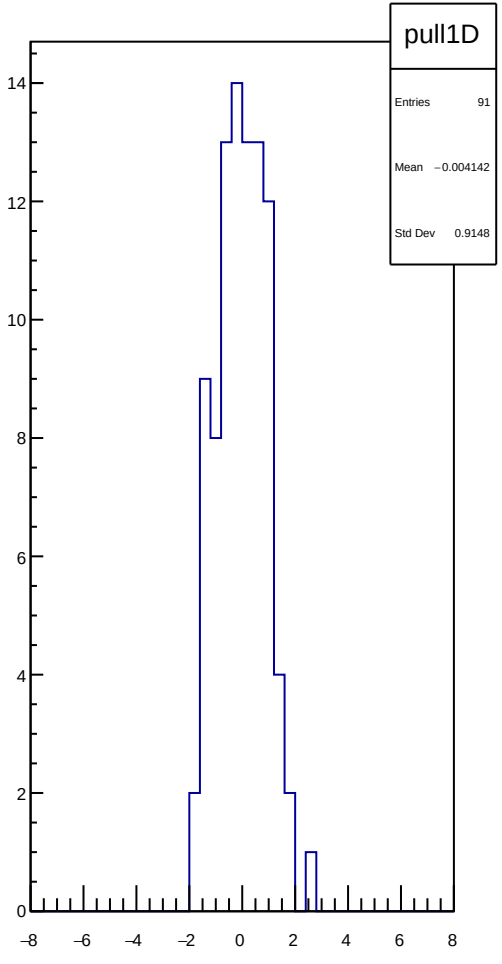

asym_at1_avg_correction_rms vs run
χ² / ndf 1.134e+04 / 90
p0 446.1 ± 0.3403
650
600
550
500
450
400
350


asym_at1_avg_mean vs run
χ² / ndf 88.68 / 90
p0 325.1 ± 2014
pull
Entries 91
Mean 107.6
Std Dev 17.64


pull1D
Entries 91
Mean 0.01595
Std Dev 0.987


asym_at1_avg_rms vs run
χ² / ndf 122.1 / 90
p0 1873 ± 1.424
1920
1900
1880
1860
1840
1820


reg_asym_at1_dd_mean vs run
χ² / ndf 76.16 / 90
p0 −1327 ± 1955
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 146.4
Std Dev 166.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.004142
Std Dev 0.9148
14
12
10
8
6
4
2
0
−8
−6
−4
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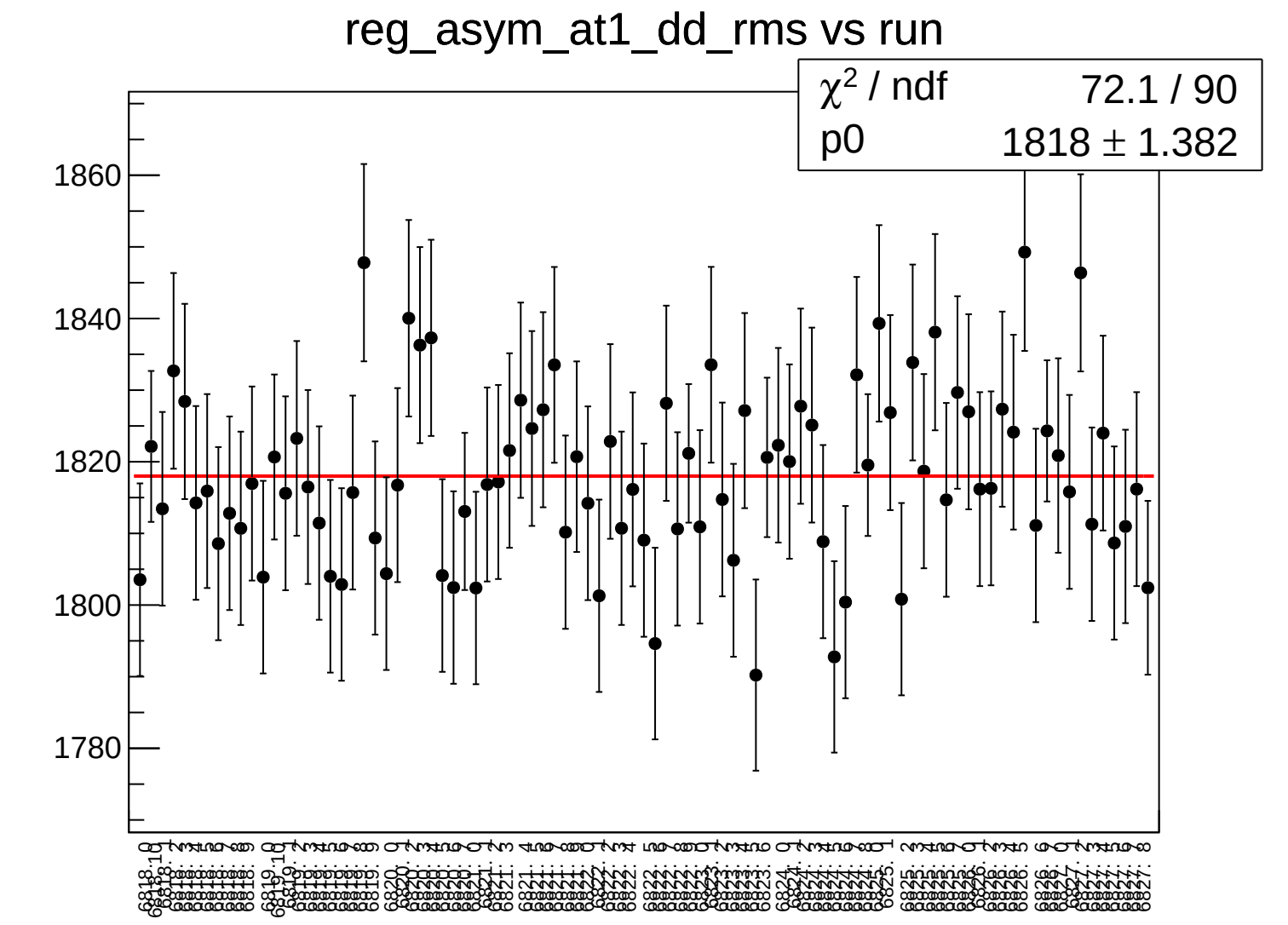
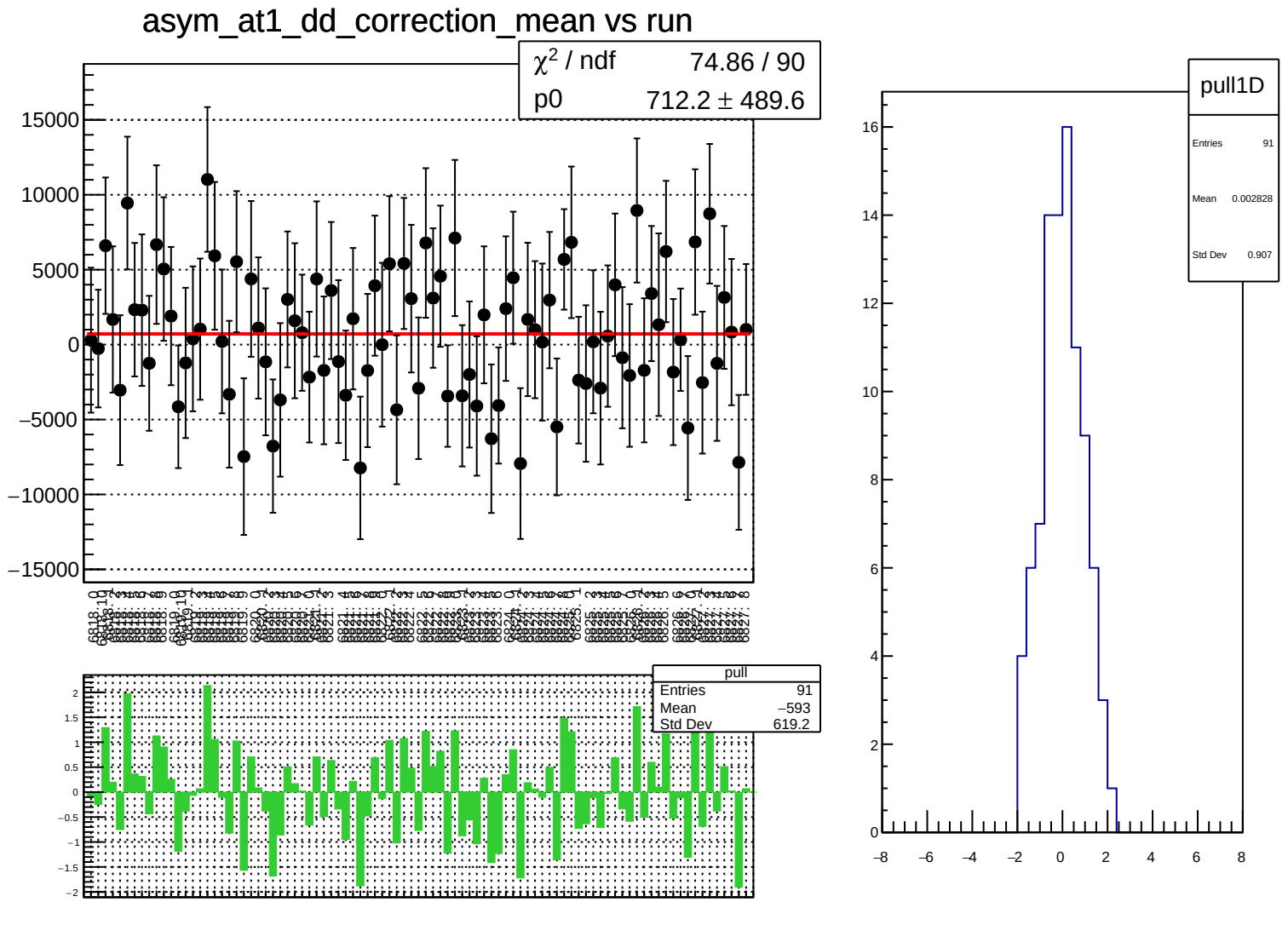
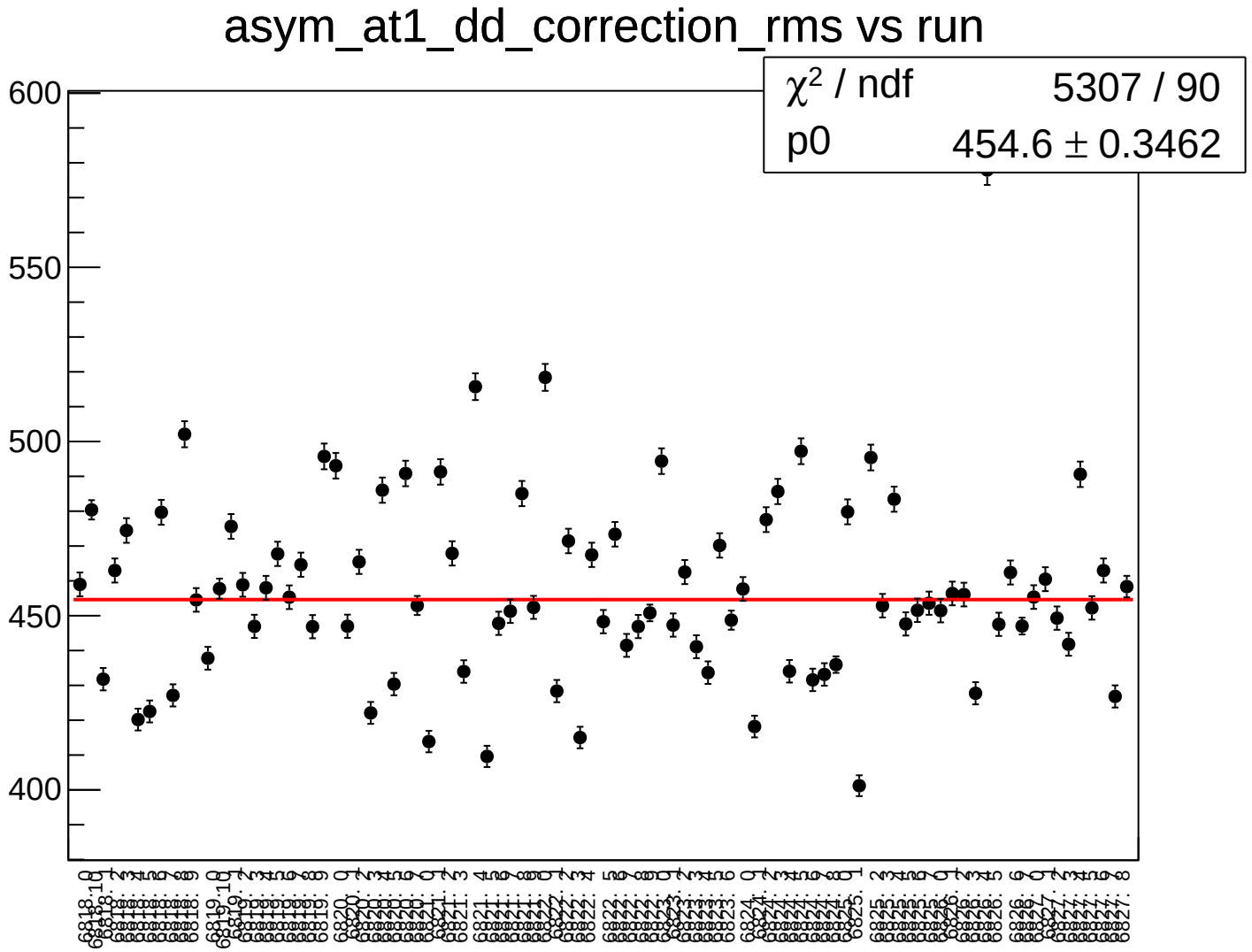
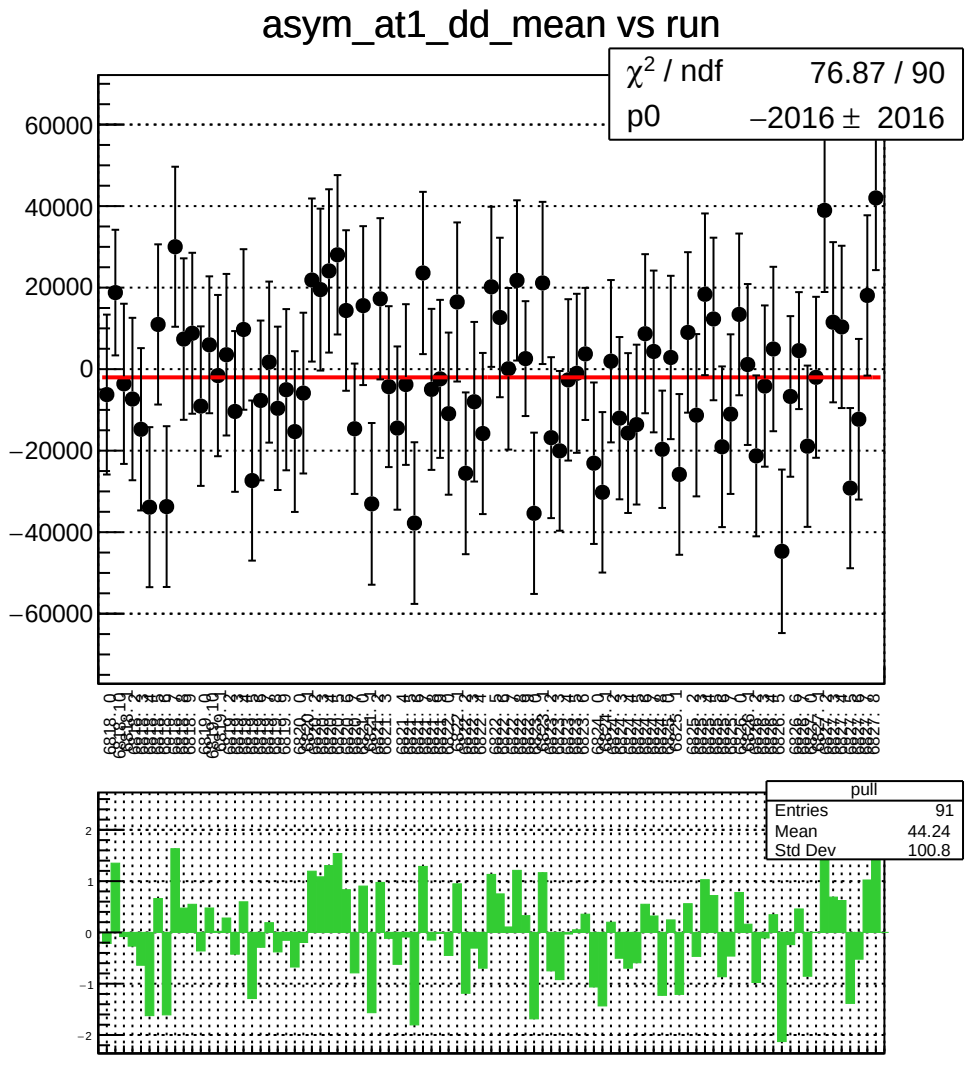
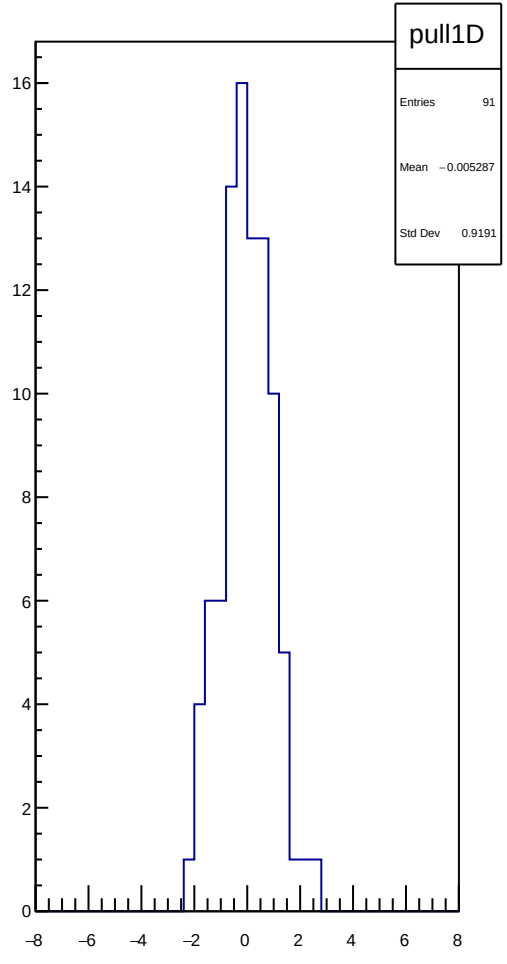
0
2
4
6
8

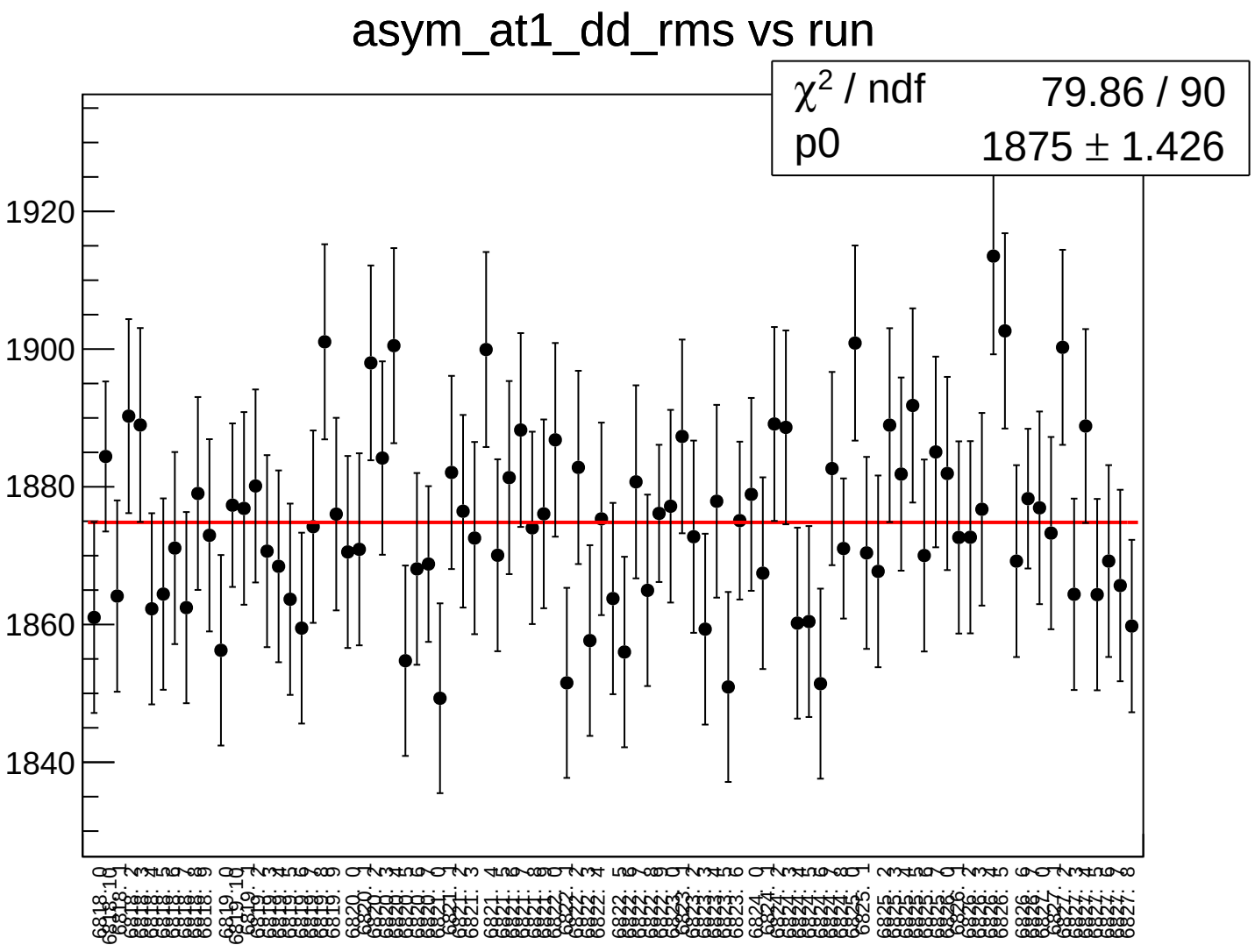

reg_asym_at1_dd_rms vs run
χ² / ndf 72.1 / 90
p0 1818 ± 1.382
1860
1840
1820
1800
1780

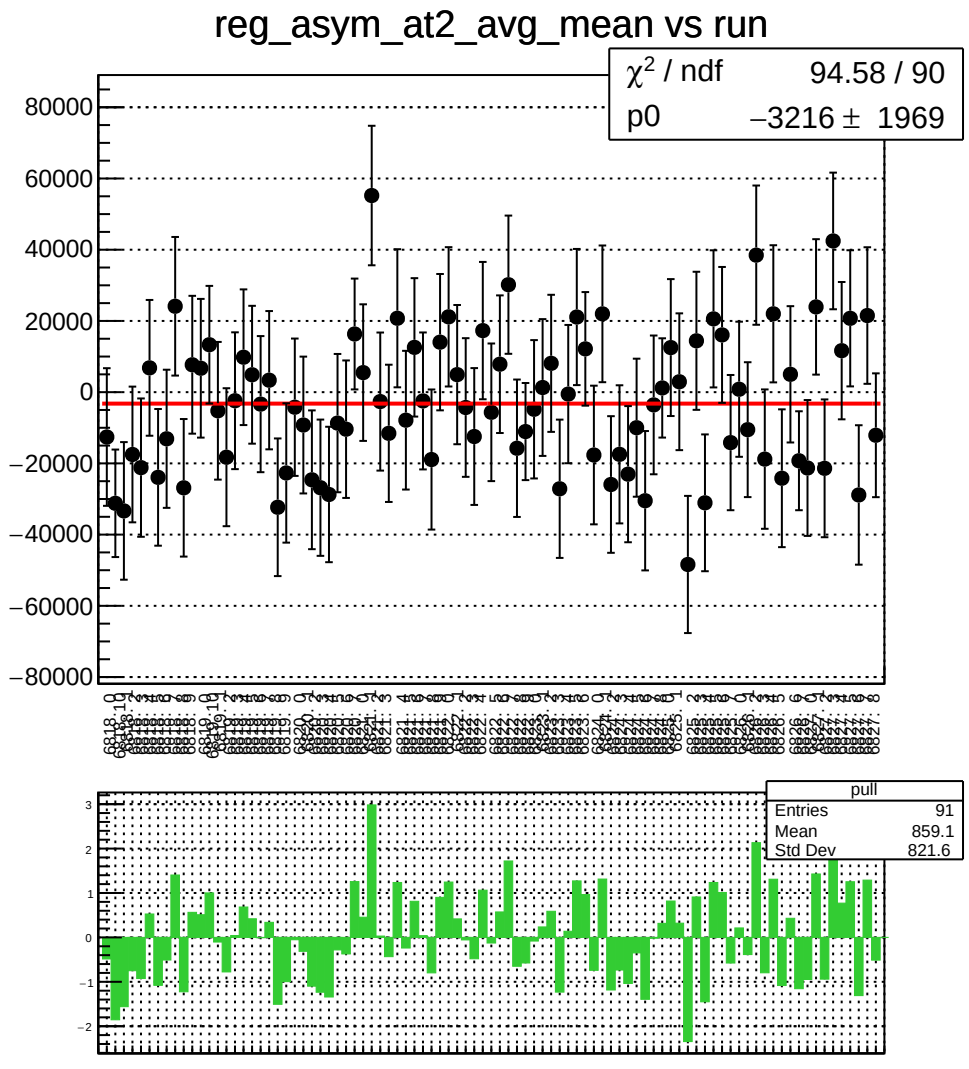

asym_at1_dd_correction_mean vs run
χ² / ndf 74.86 / 90
p0 712.2 ± 489.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −593
Std Dev 619.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.002828
Std Dev 0.907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

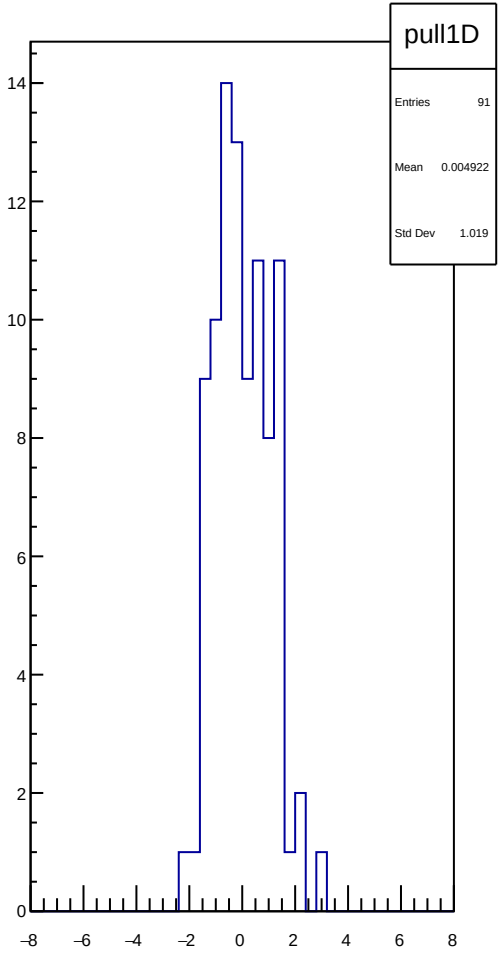

asym_at1_dd_correction_rms vs run
χ² / ndf 5307 / 90
p0 454.6 ± 0.3462
600
550
500
450
400

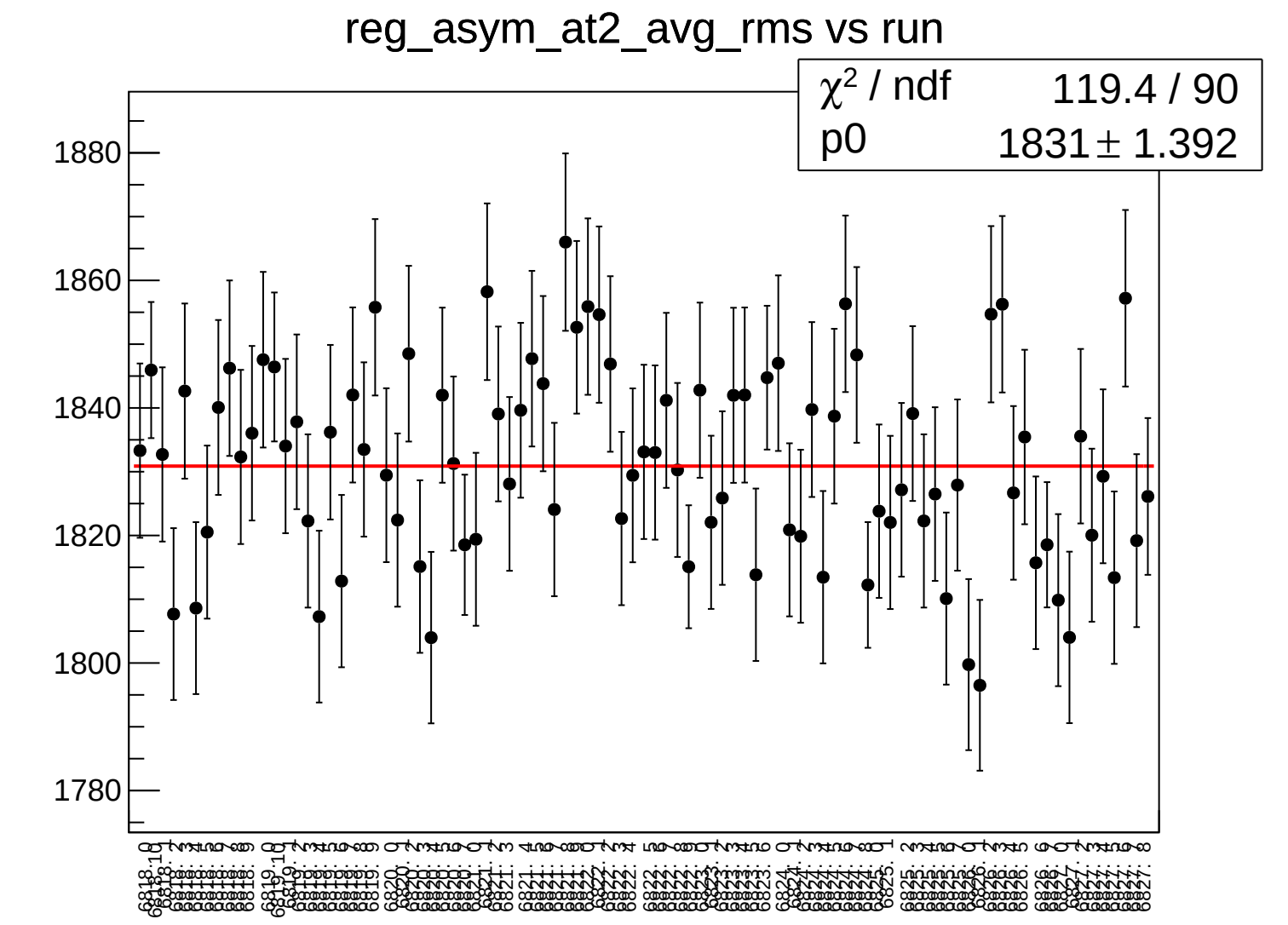

asym_at1_dd_mean vs run
χ² / ndf 76.87 / 90
p0 −2016 ± 2016
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 44.24
Std Dev 100.8
2
1
0
−1
−2

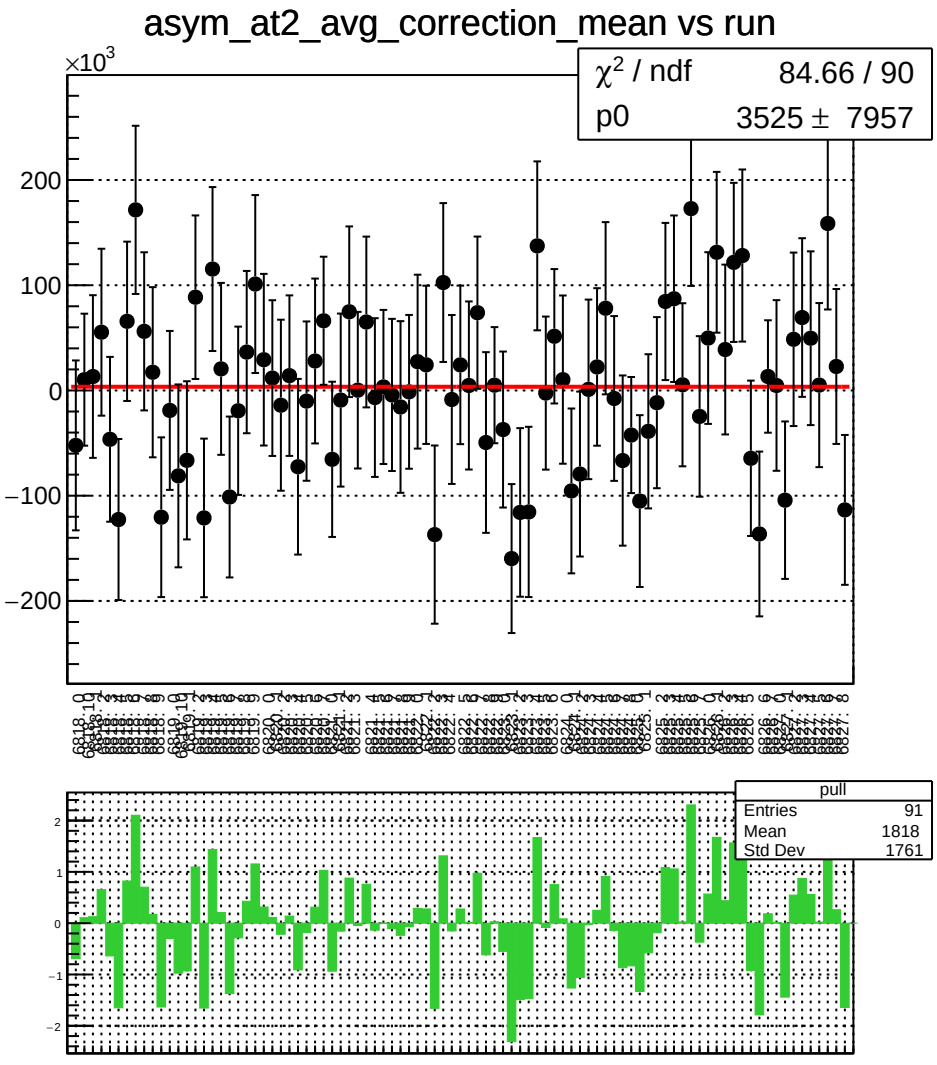

pull1D
Entries 91
Mean −0.005287
Std Dev 0.9191
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

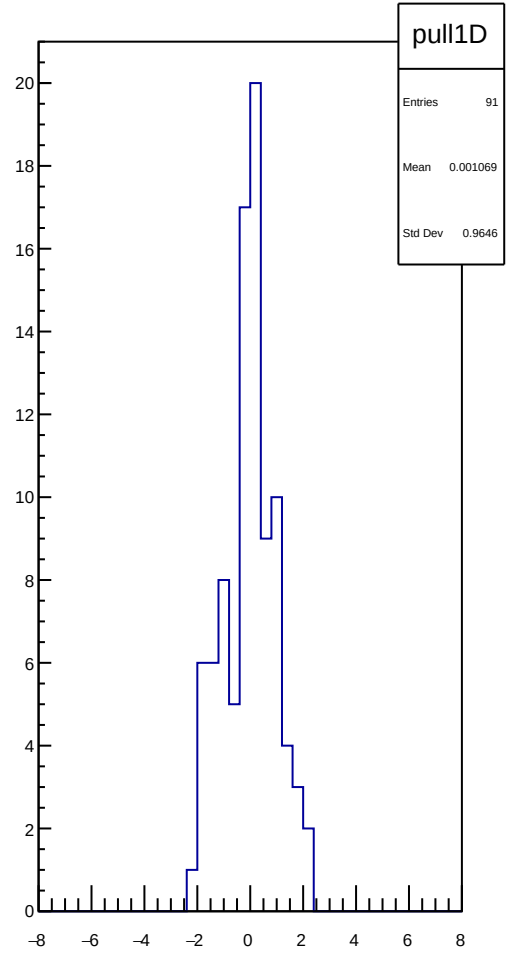

asym_at1_dd_rms vs run
χ² / ndf 79.86 / 90
p0 1875 ± 1.426
1920
1900
1880
1860
1840

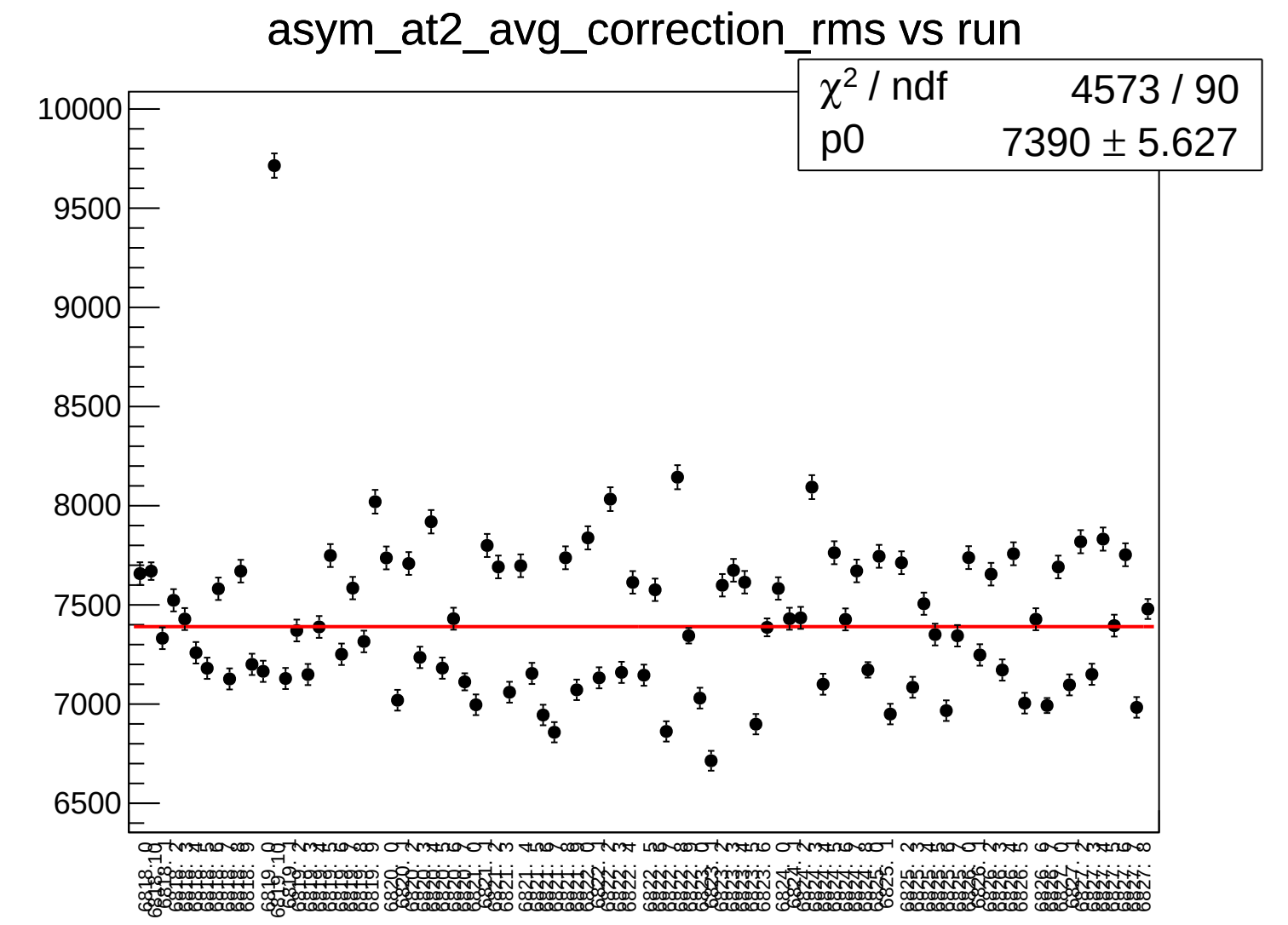

reg_asym_at2_avg_mean vs run
χ² / ndf 94.58 / 90
p0 −3216 ± 1969
pull
Entries 91
Mean 859.1
Std Dev 821.6

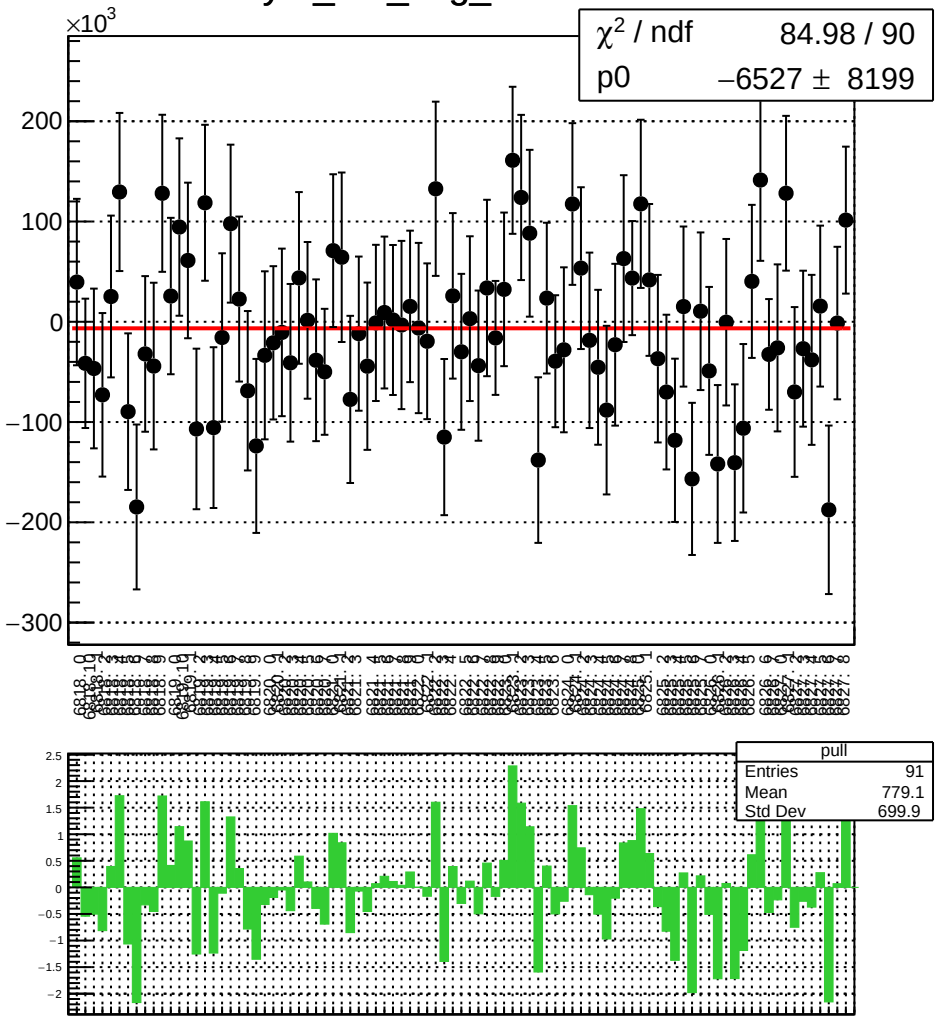

pull1D
Entries 91
Mean 0.004922
Std Dev 1.019

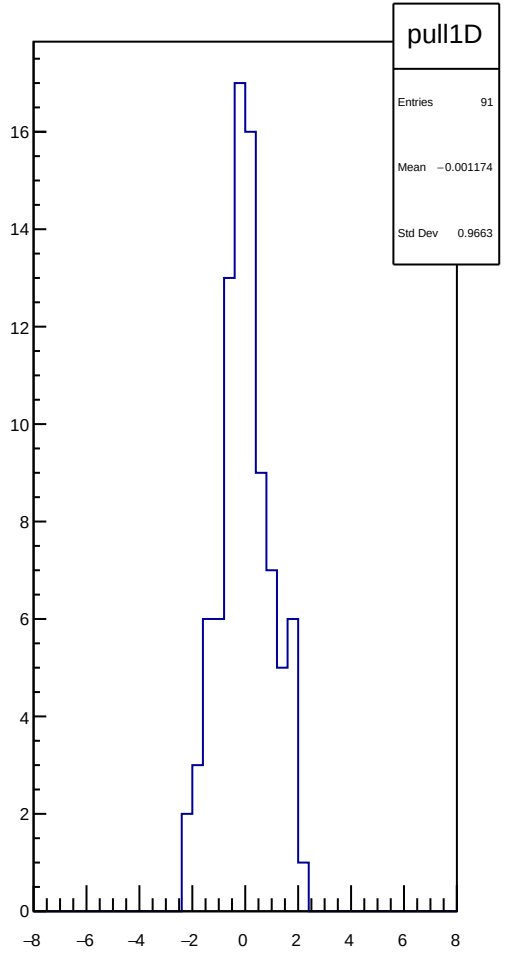

reg_asym_at2_avg_rms vs run
χ² / ndf 119.4 / 90
p0 1831 ± 1.392
1880
1860
1840
1820
1800
1780

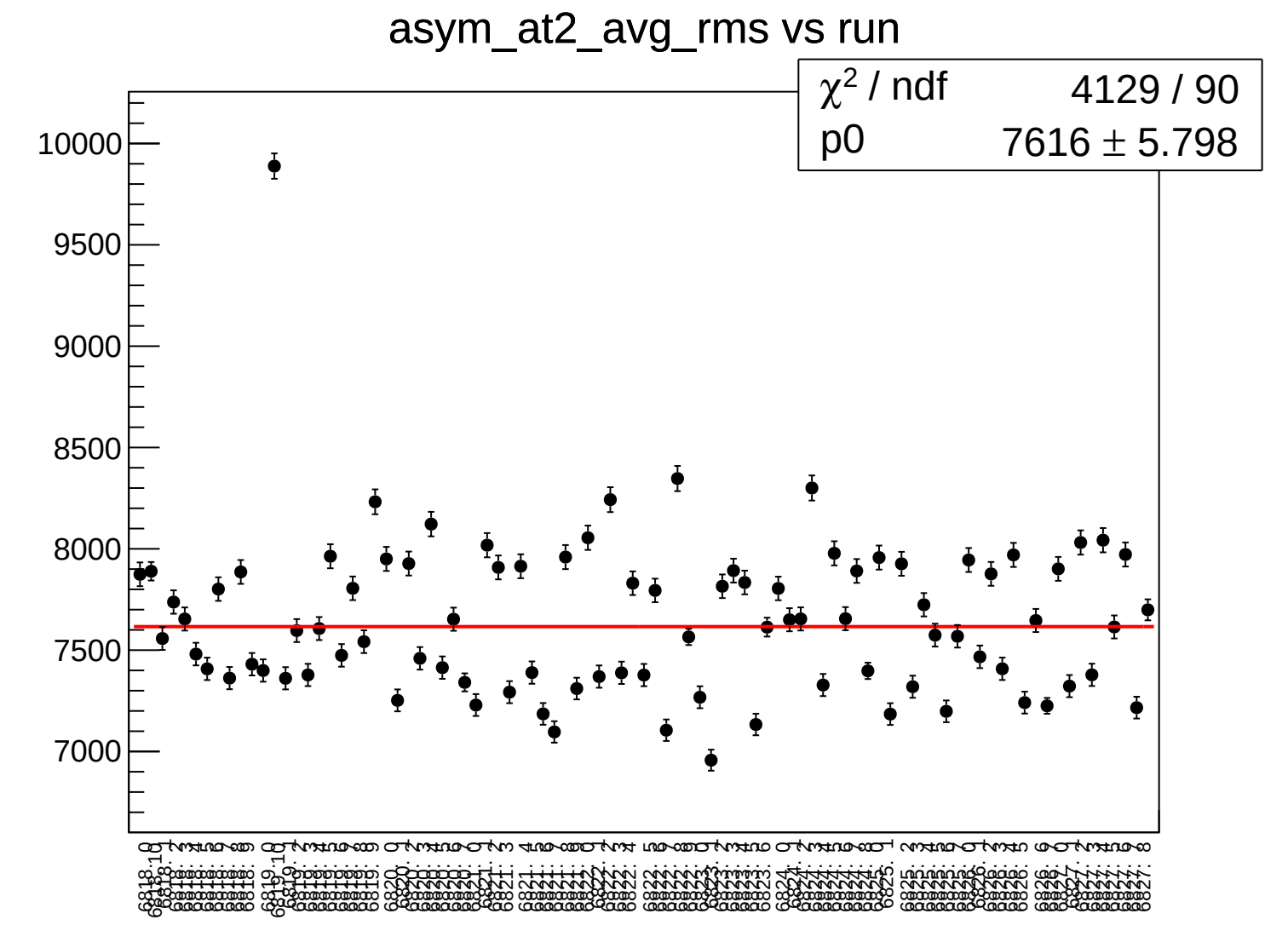

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 84.66 / 90
p0 3525 ± 7957
200
100
0
−100
−200
pull
Entries 91
Mean 1818
Std Dev 1761
2
1
0
−1
−2

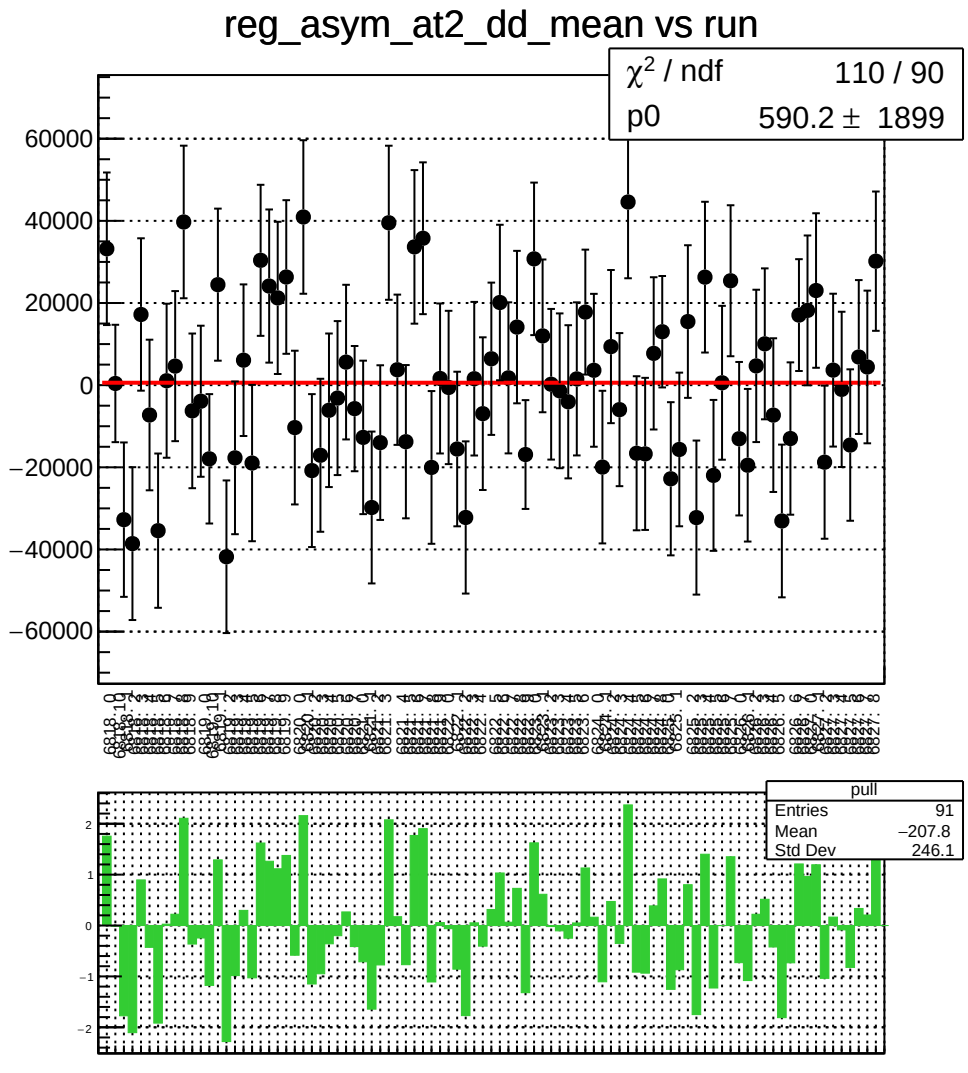

pull1D
Entries 91
Mean 0.001069
Std Dev 0.9646
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

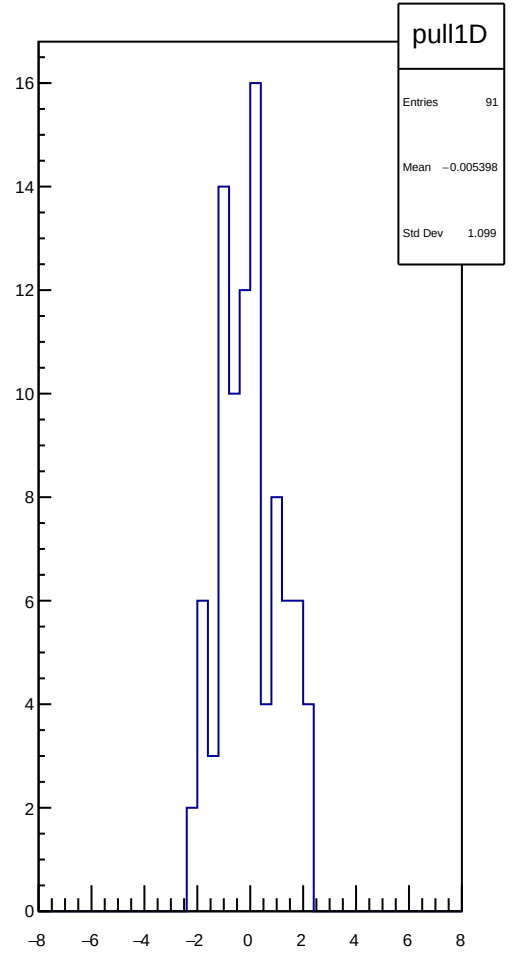

asym_at2_avg_correction_rms vs run
χ^2 / ndf 4573 / 90
p0 7390 ± 5.627
10000
9500
9000
8500
8000
7500
7000
6500

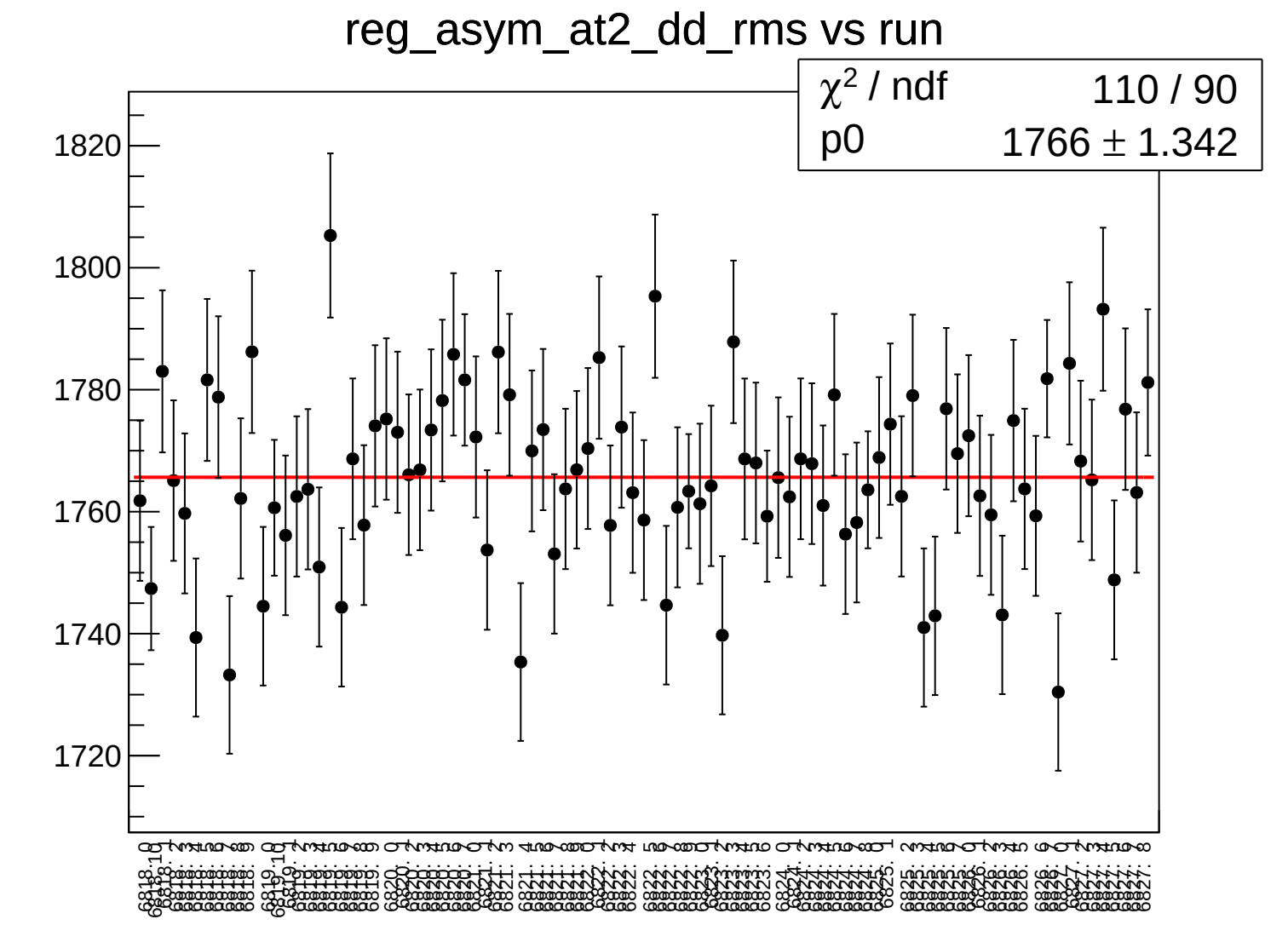

asym_at2_avg_mean vs run
×10^3
χ² / ndf 84.98 / 90
p0 −6527 ± 8199
200
100
0
−100
−200
−300
pull
Entries 91
Mean 779.1
Std Dev 699.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

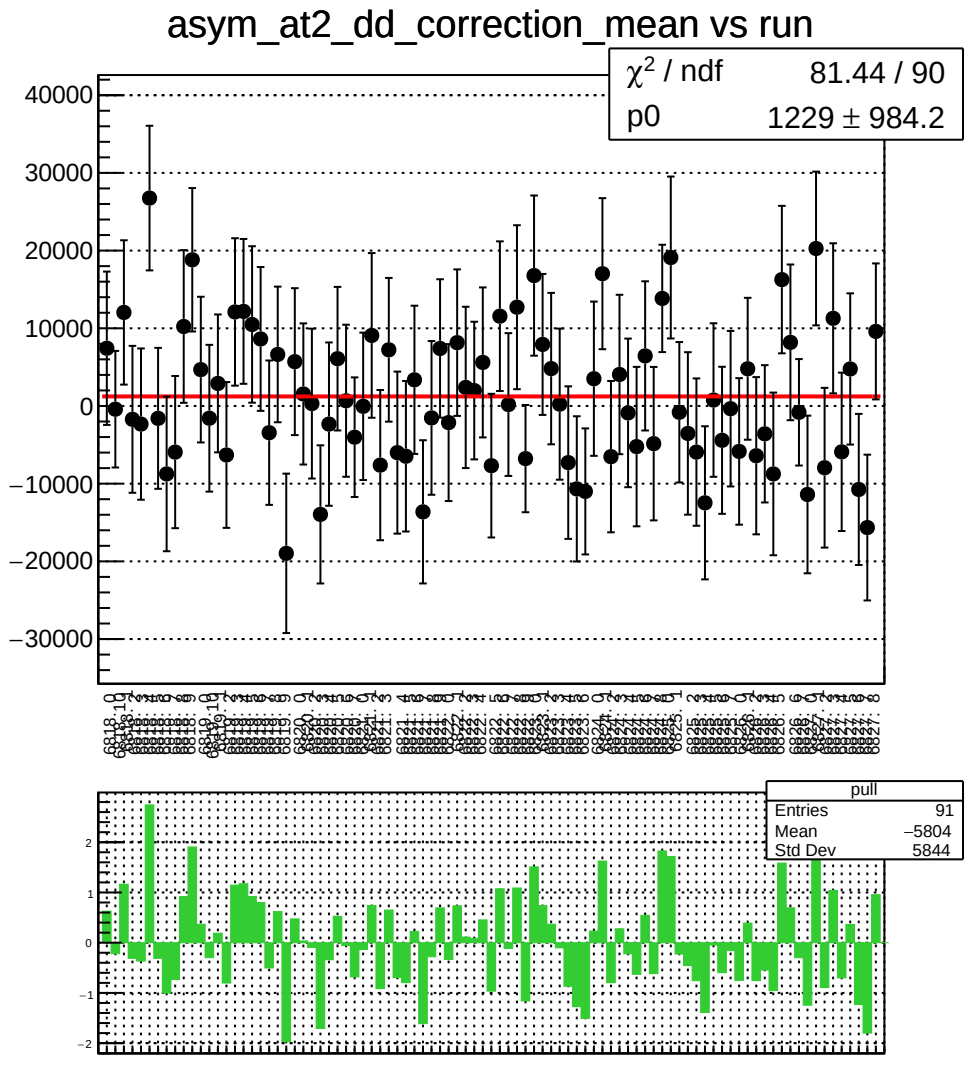

pull1D
Entries 91
Mean −0.001174
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

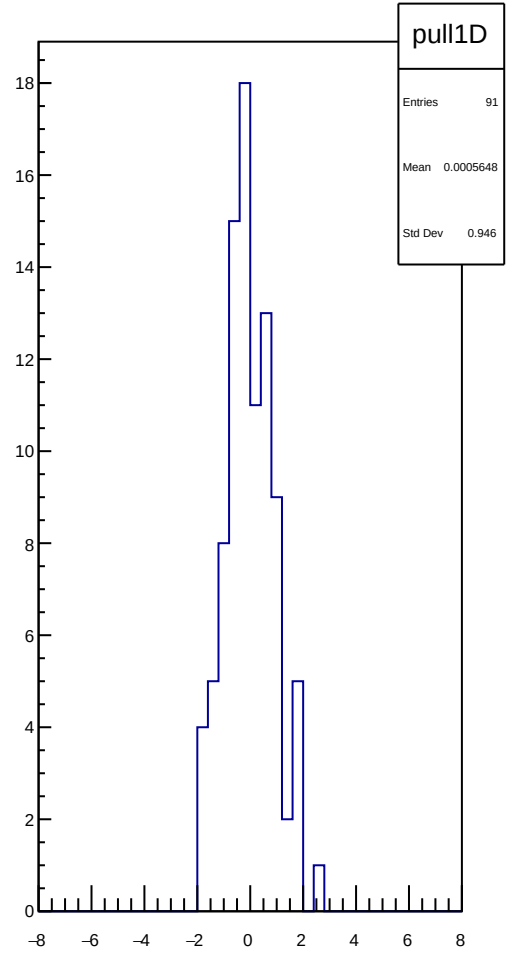

asym_at2_avg_rms vs run
χ^2 / ndf 4129 / 90
p0 7616 ± 5.798
10000
9500
9000
8500
8000
7500
7000

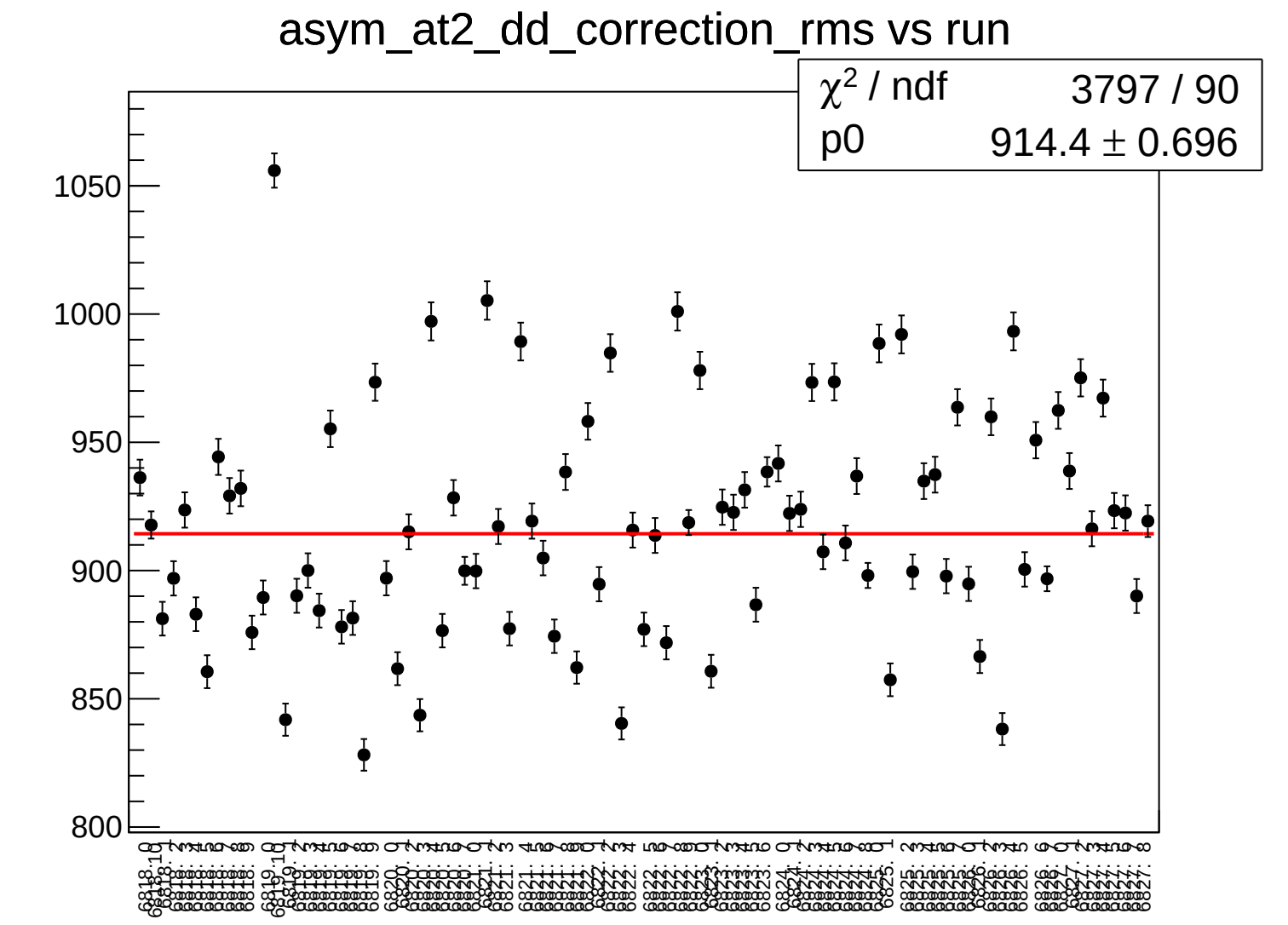

reg_asym_at2_dd_mean vs run
χ² / ndf 110 / 90
p0 590.2 ± 1899
pull
Entries 91
Mean −207.8
Std Dev 246.1

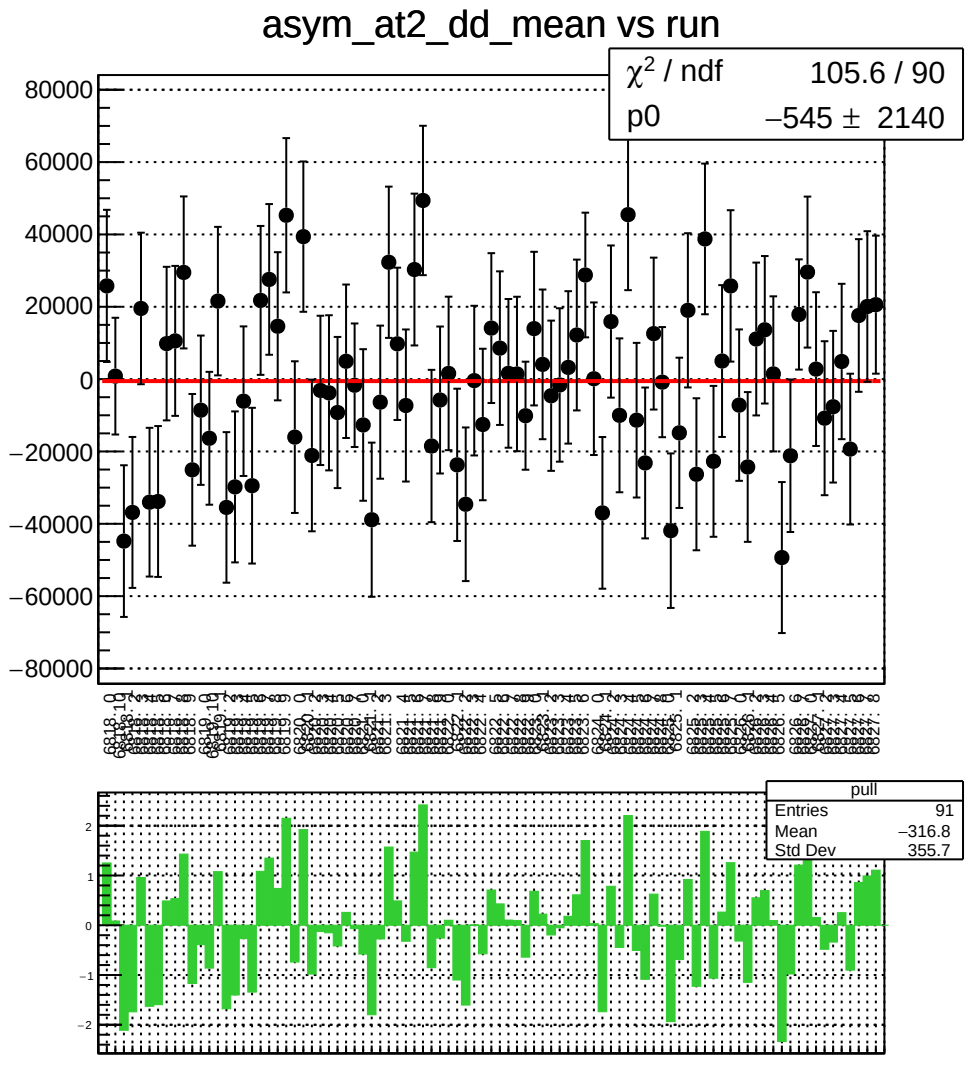

pull1D
Entries 91
Mean −0.005398
Std Dev 1.099

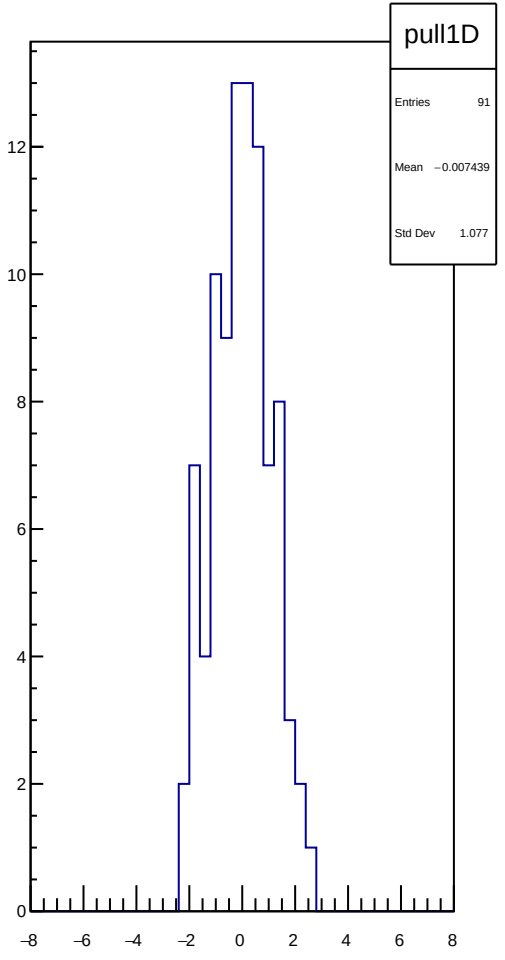

reg_asym_at2_dd_rms vs run
χ² / ndf 110 / 90
p0 1766 ± 1.342
1820
1800
1780
1760
1740
1720

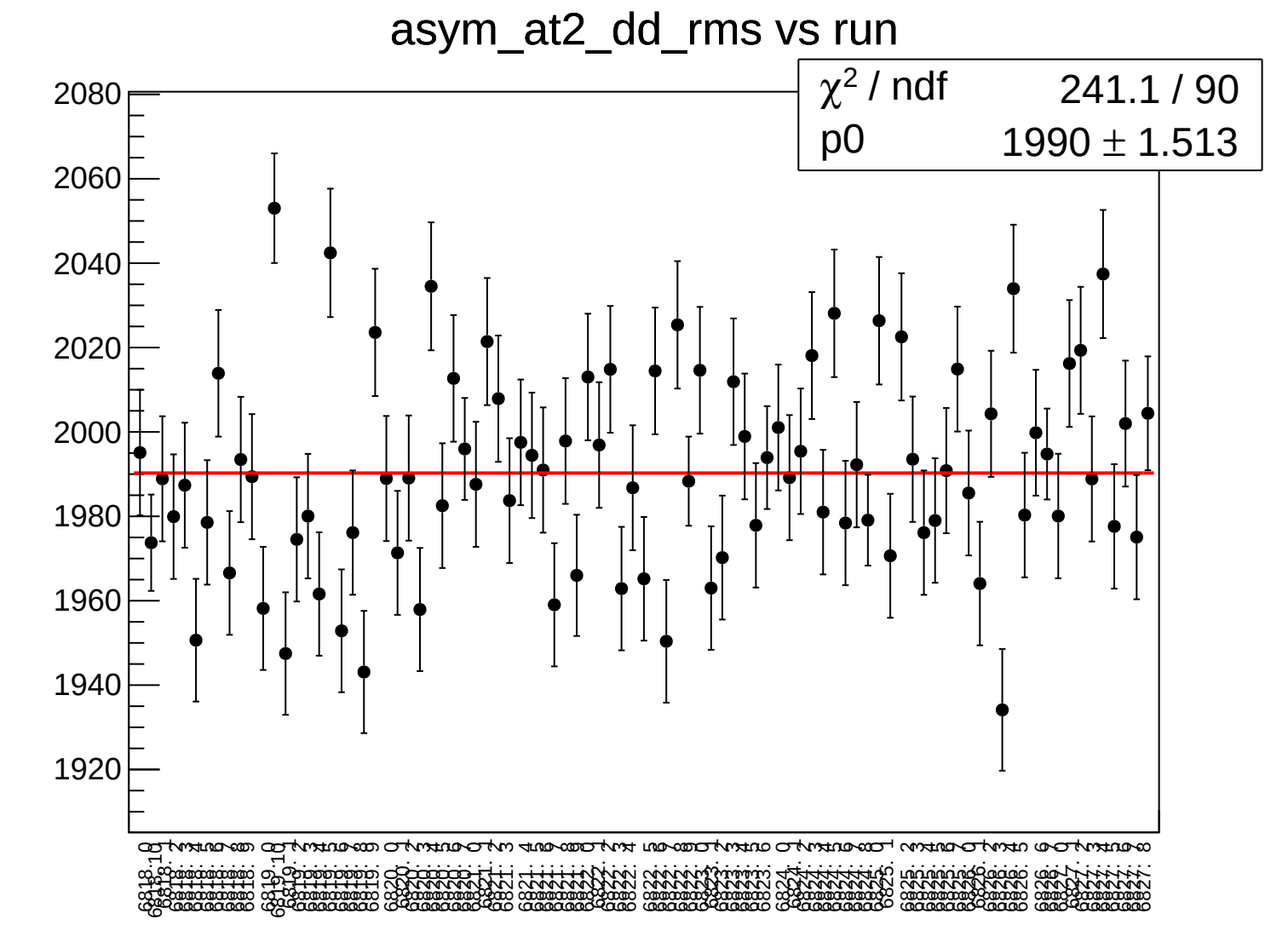

asym_at2_dd_correction_mean vs run
χ² / ndf 81.44 / 90
p0 1229 ± 984.2
pull
Entries 91
Mean −5804
Std Dev 5844

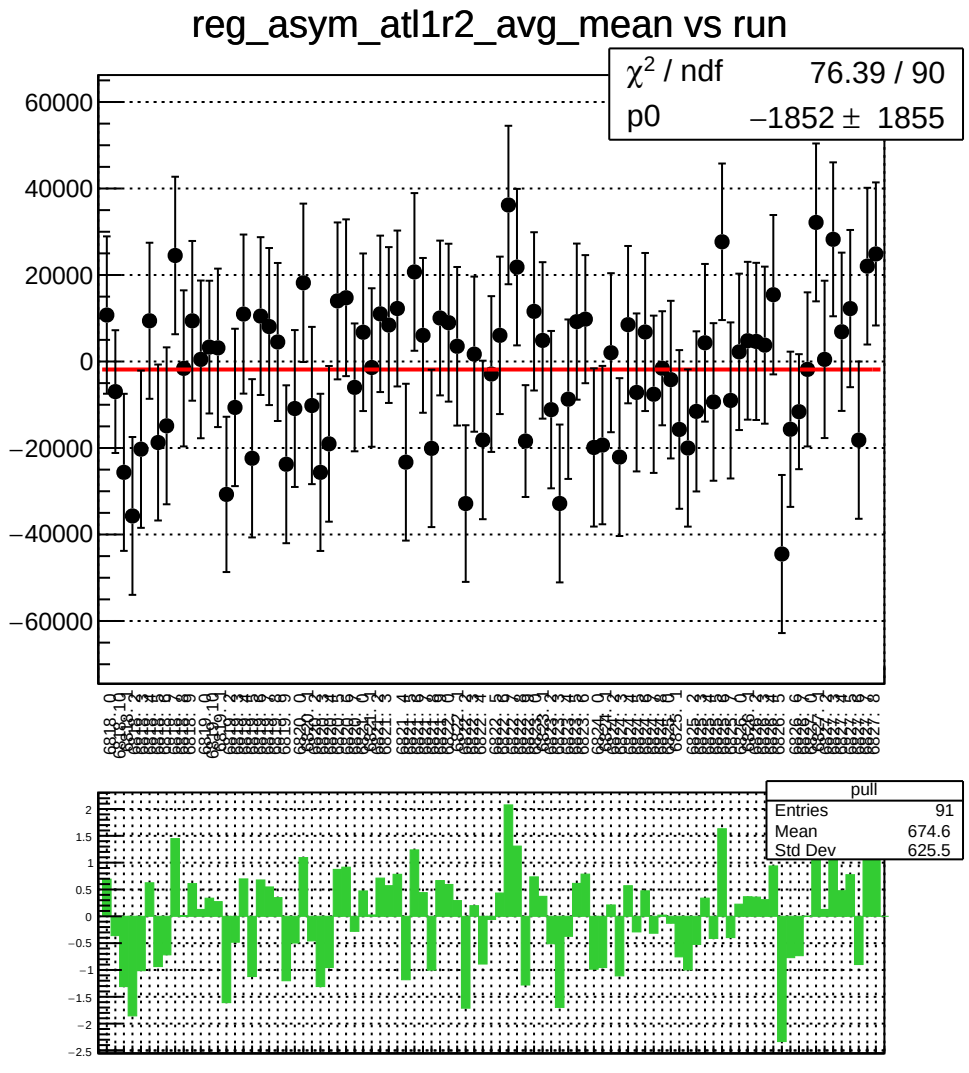

pull1D
Entries 91
Mean 0.0005648
Std Dev 0.946

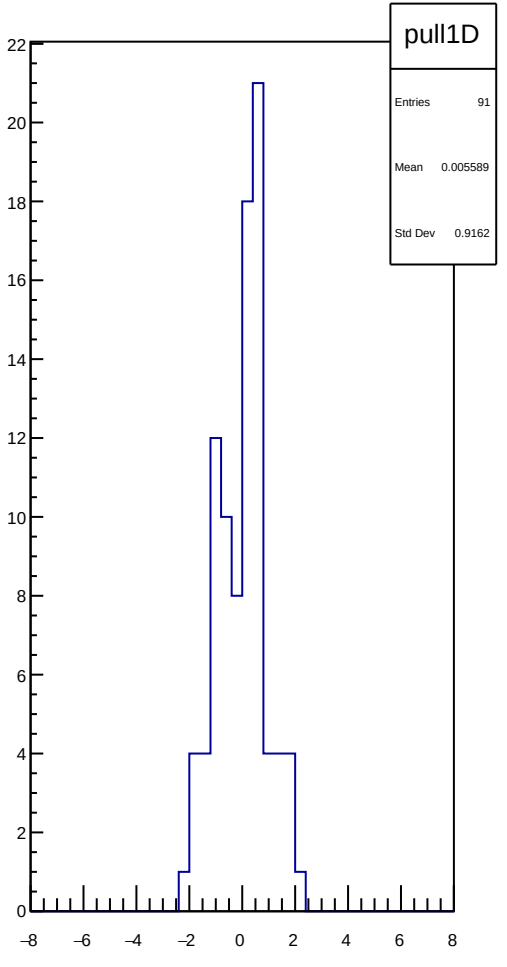

asym_at2_dd_correction_rms vs run
χ² / ndf 3797 / 90
p0 914.4 ± 0.696
1050
1000
950
900
850
800

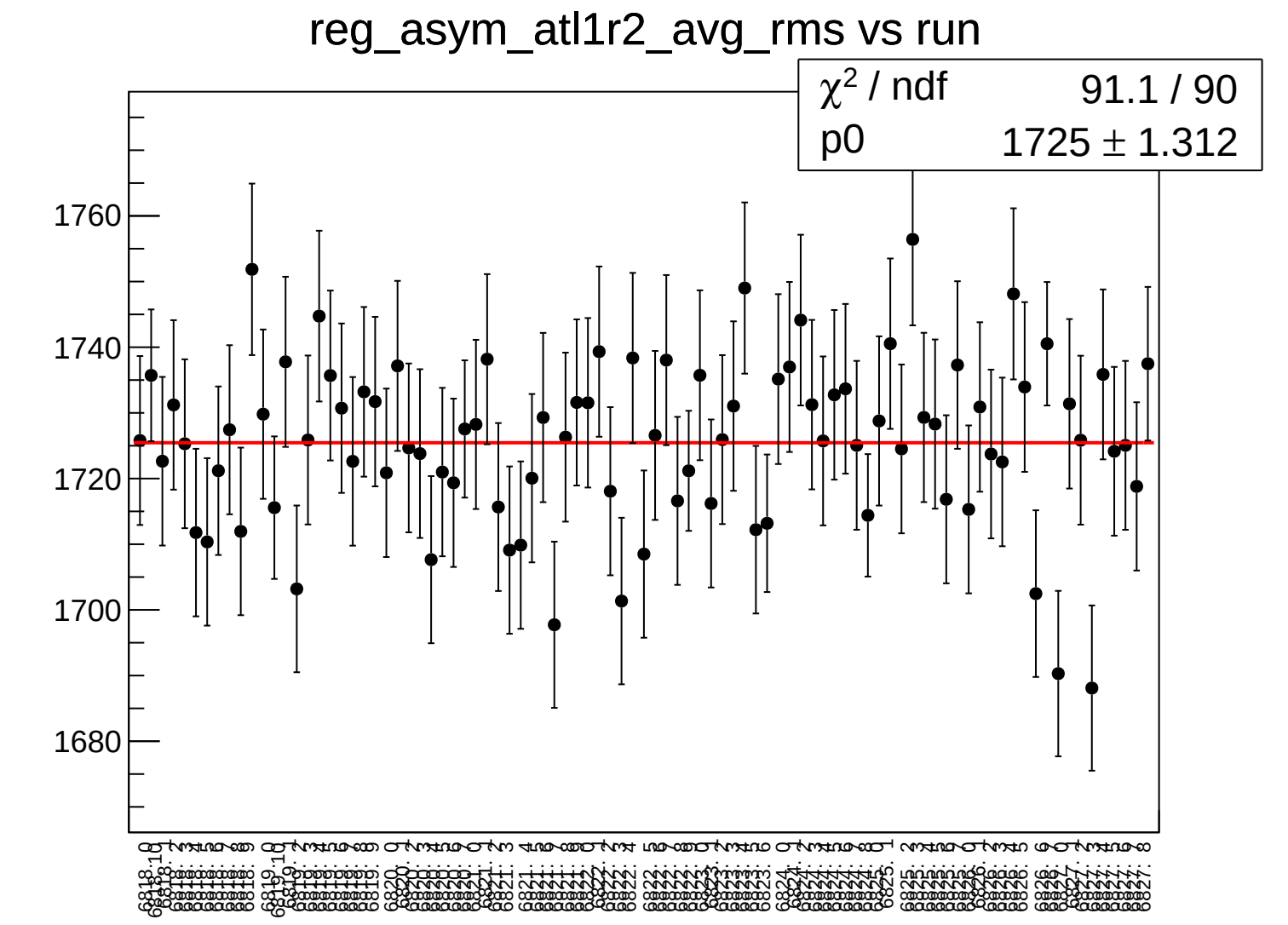

asym_at2_dd_mean vs run
χ² / ndf 105.6 / 90
p0 −545 ± 2140
pull
Entries 91
Mean −316.8
Std Dev 355.7

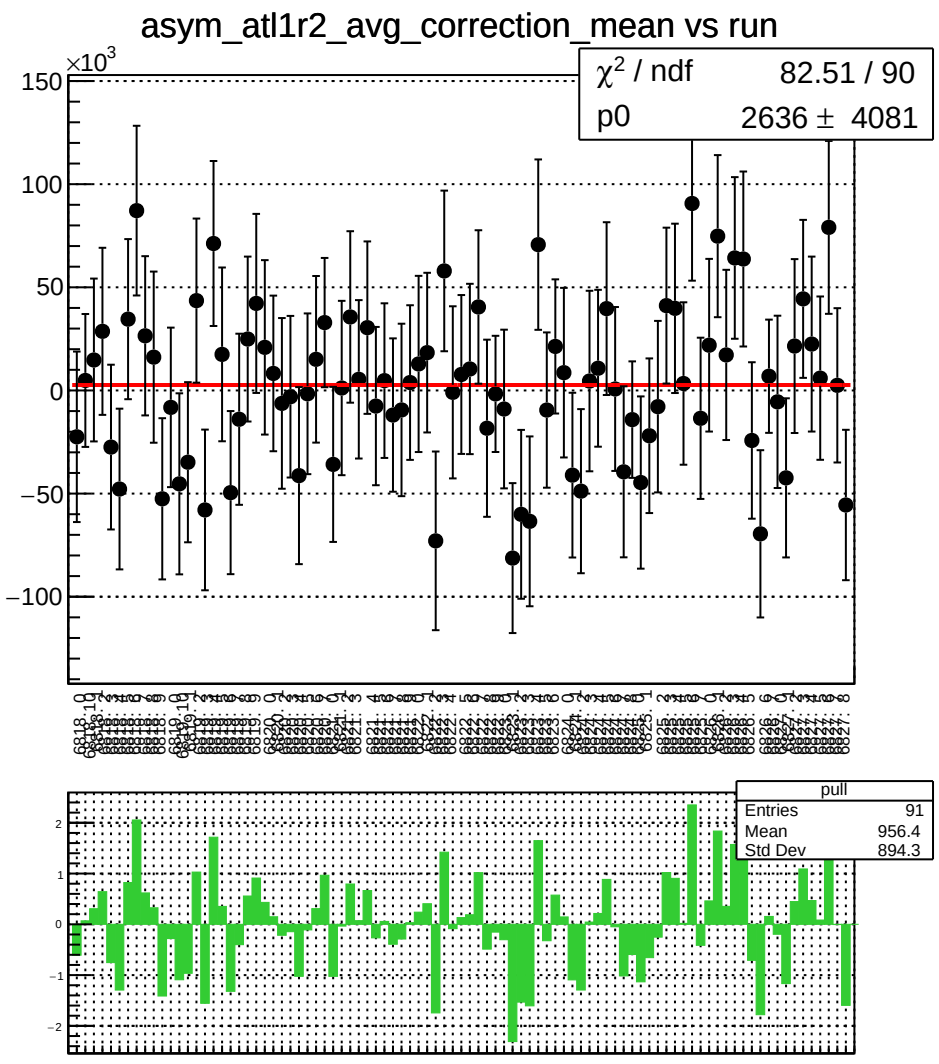

pull1D
Entries 91
Mean −0.007439
Std Dev 1.077

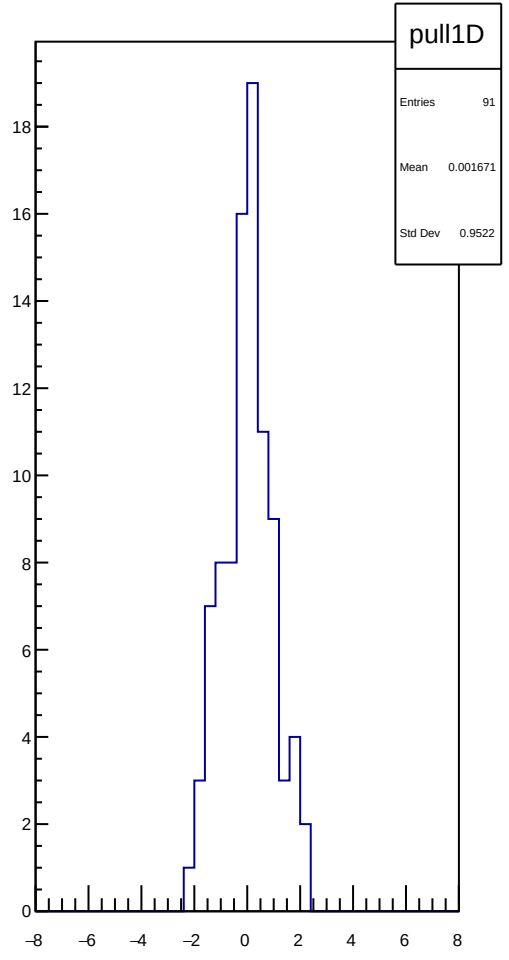

asym_at2_dd_rms vs run
χ² / ndf 241.1 / 90
p0 1990 ± 1.513
2080
2060
2040
2020
2000
1980
1960
1940
1920

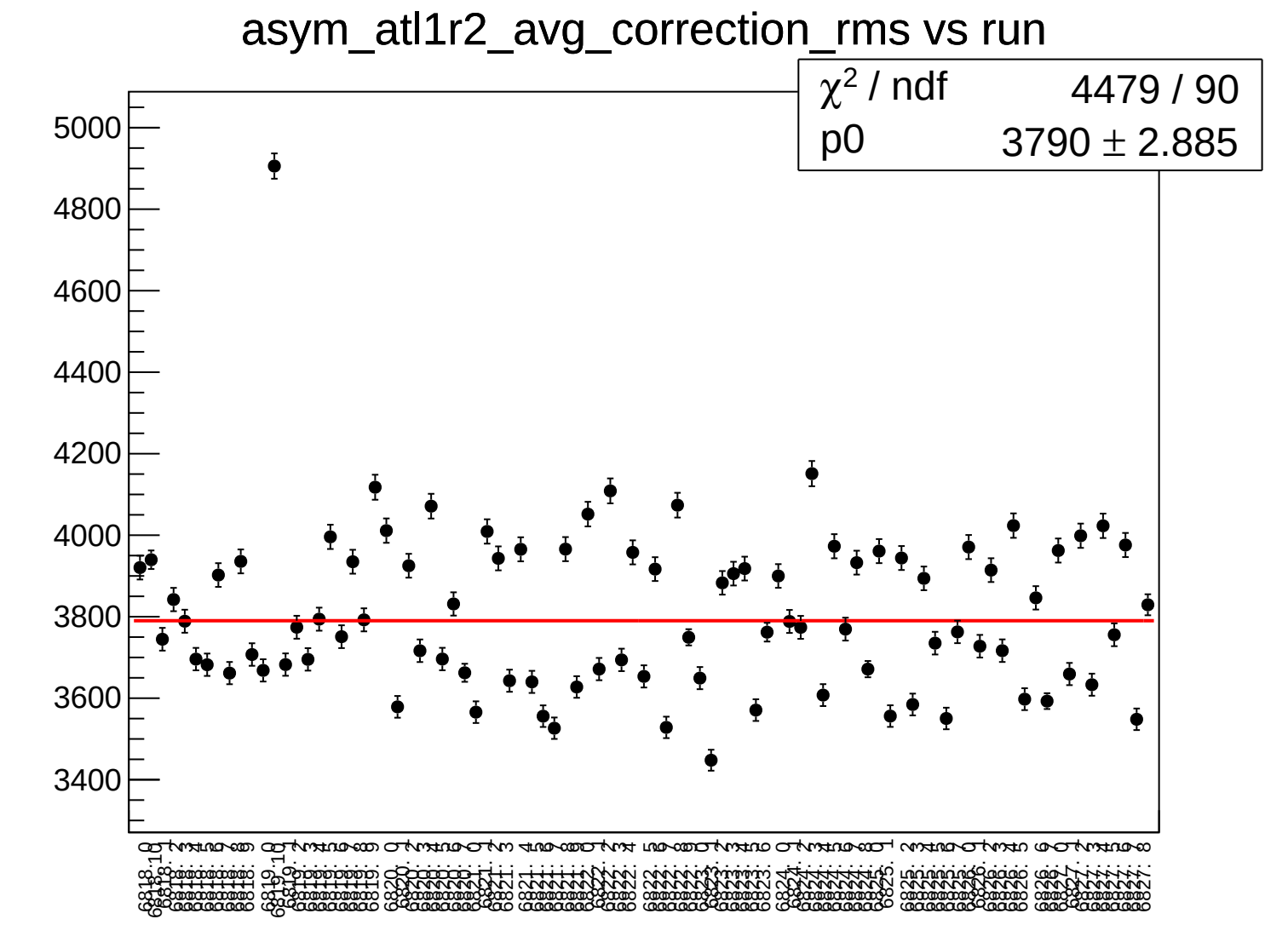

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 76.39 / 90
p0 −1852 ± 1855
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 674.6
Std Dev 625.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

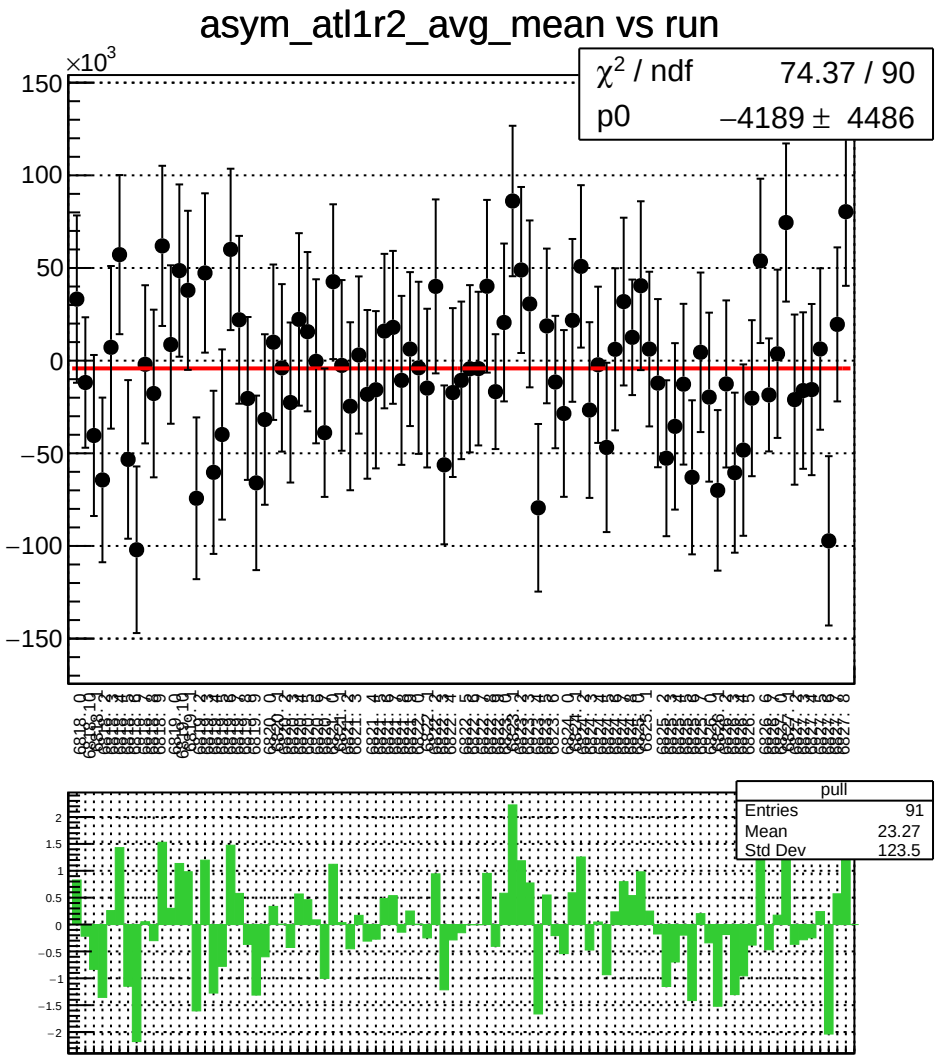

pull1D
Entries 91
Mean 0.005589
Std Dev 0.9162
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

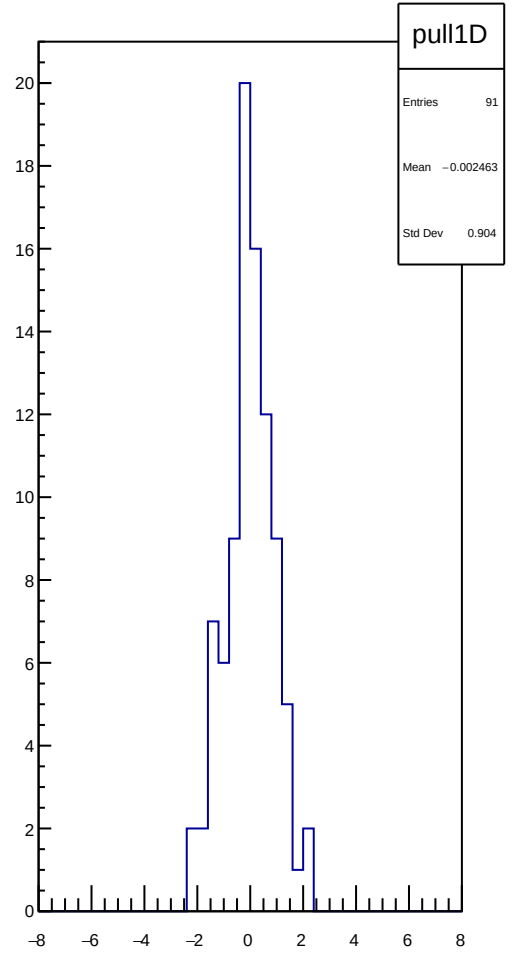

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 91.1 / 90
p0 1725 ± 1.312
1760
1740
1720
1700
1680

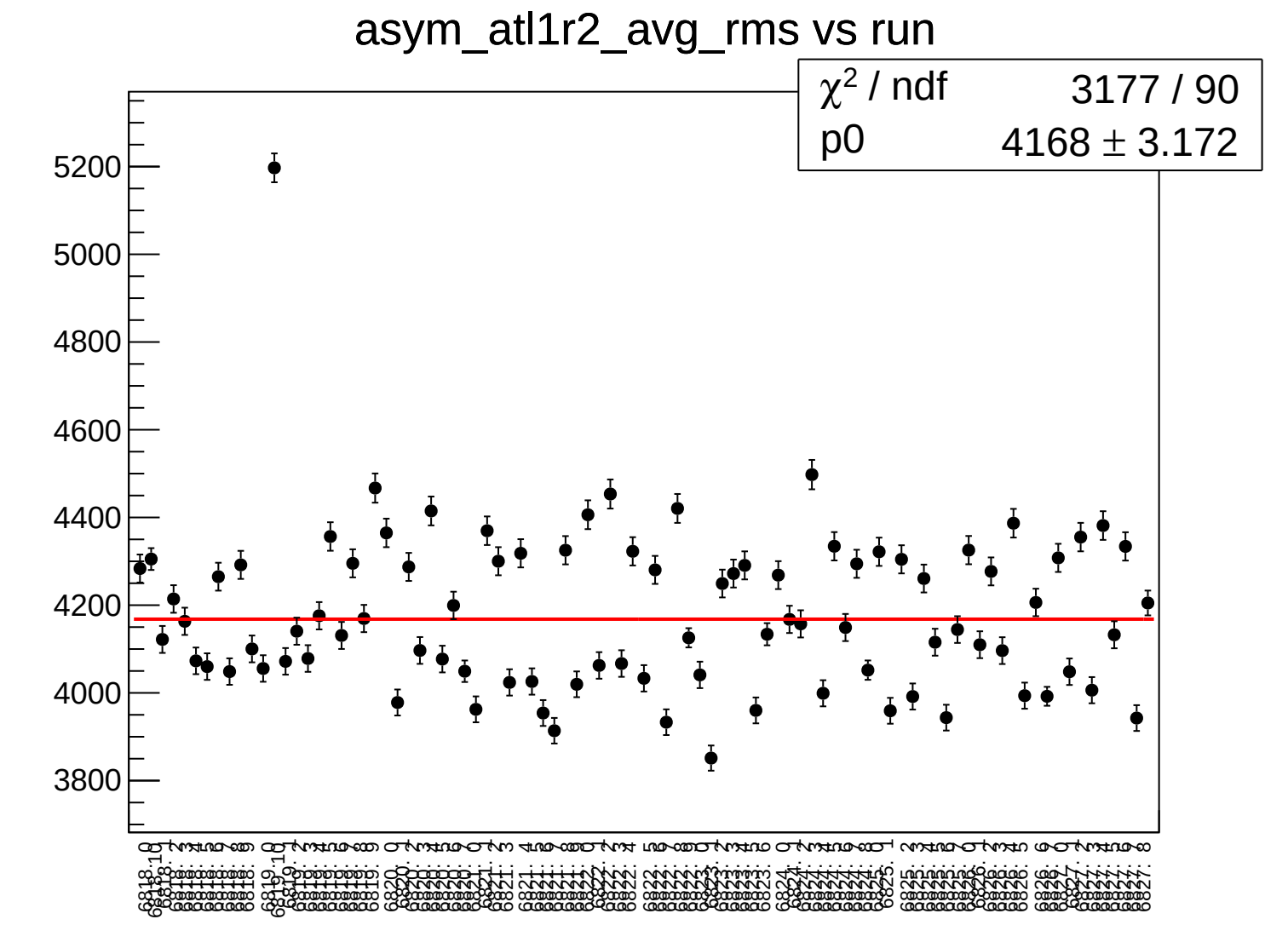

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 82.51 / 90
p0 2636 ± 4081
150
100
50
0
−50
−100
pull
Entries 91
Mean 956.4
Std Dev 894.3
2
1
0
−1
−2

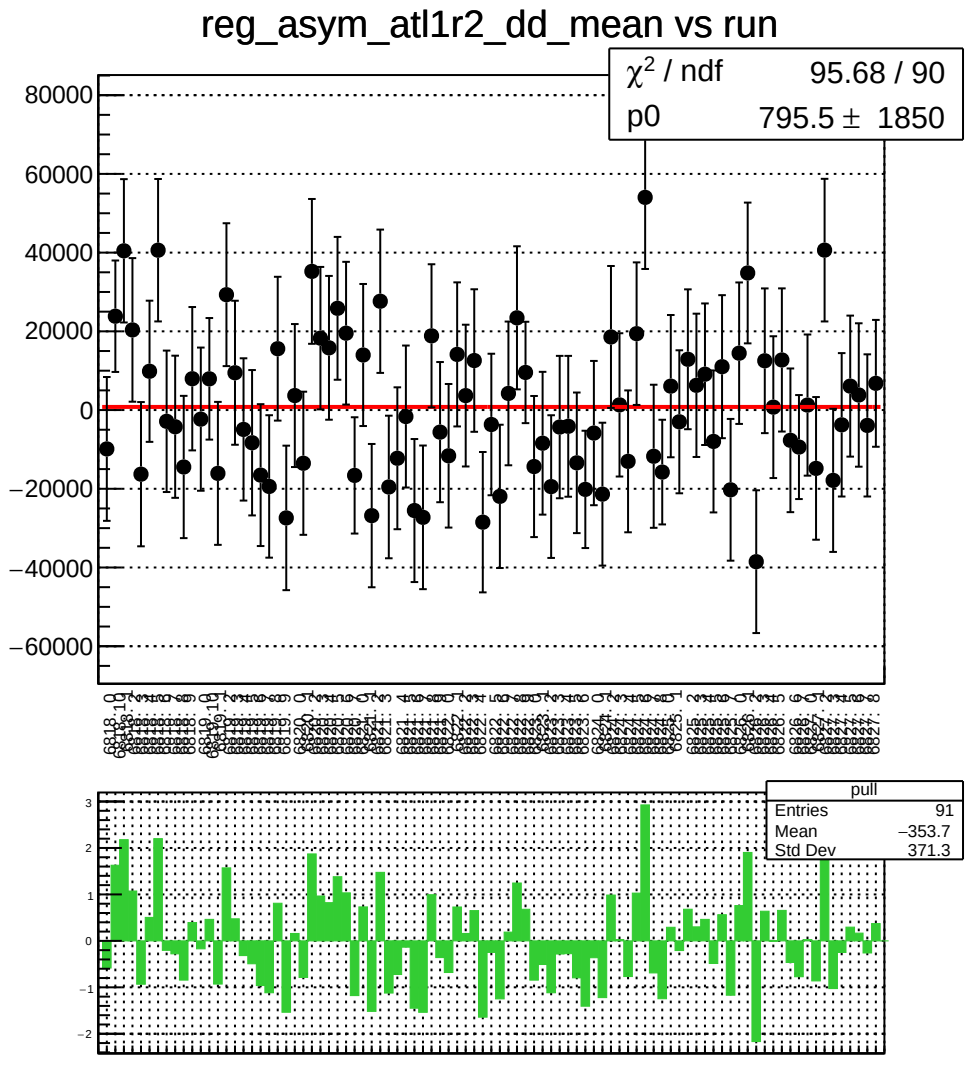

pull1D
Entries 91
Mean 0.001671
Std Dev 0.9522
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

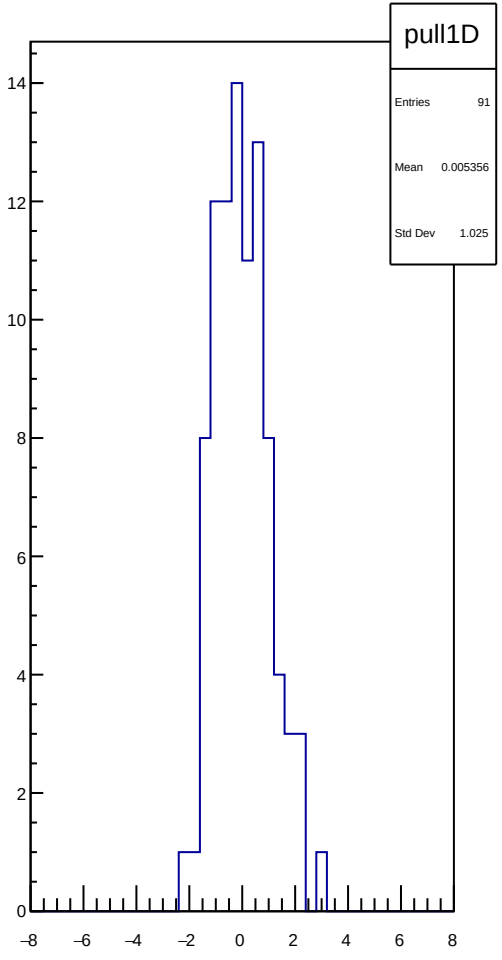

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 4479 / 90
p0 3790 ± 2.885
5000
4800
4600
4400
4200
4000
3800
3600
3400

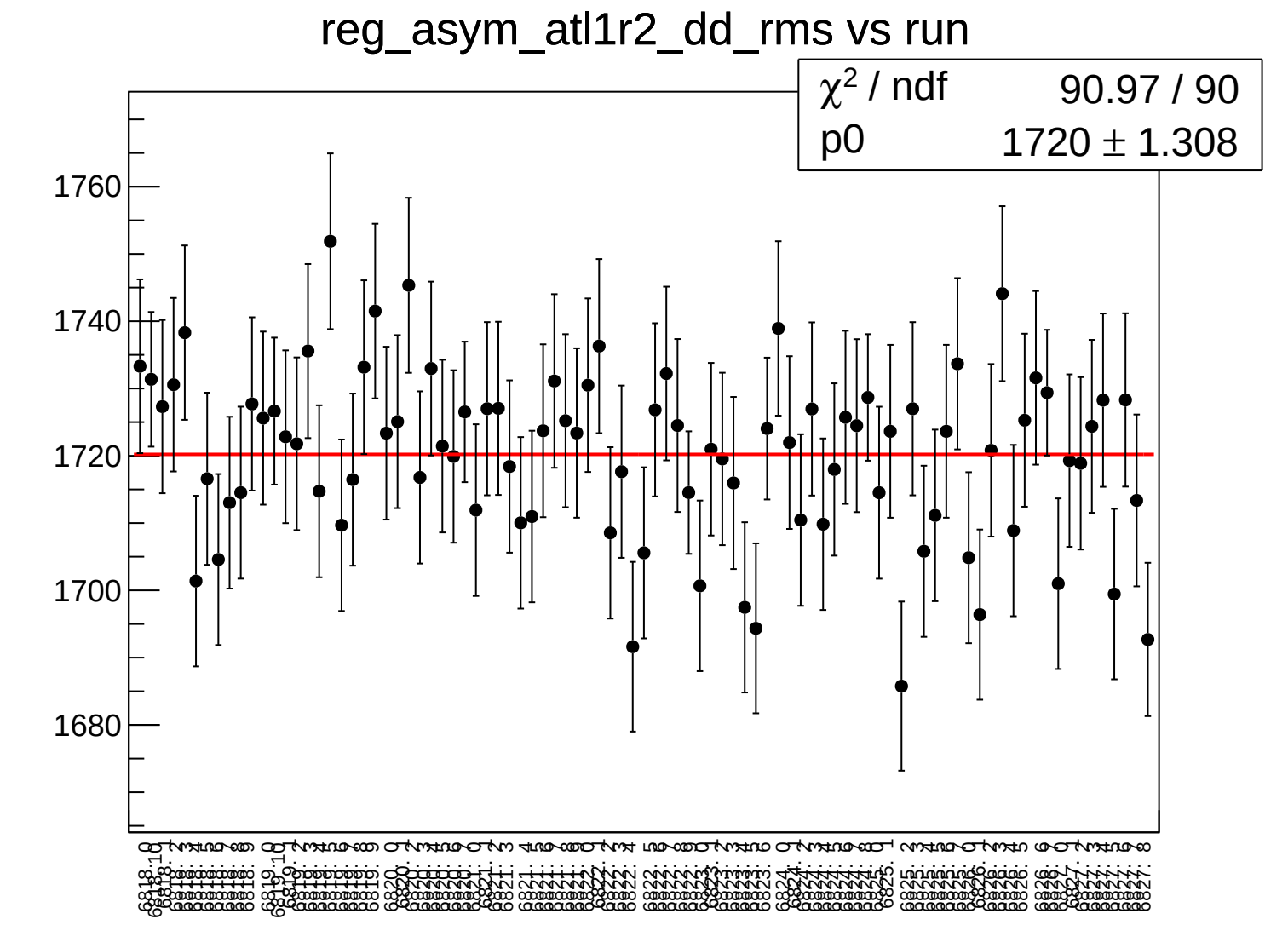

asym_atl1r2_avg_mean vs run
χ^2 / ndf 74.37 / 90
p0 −4189 ± 4486
×10^3
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 23.27
Std Dev 123.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

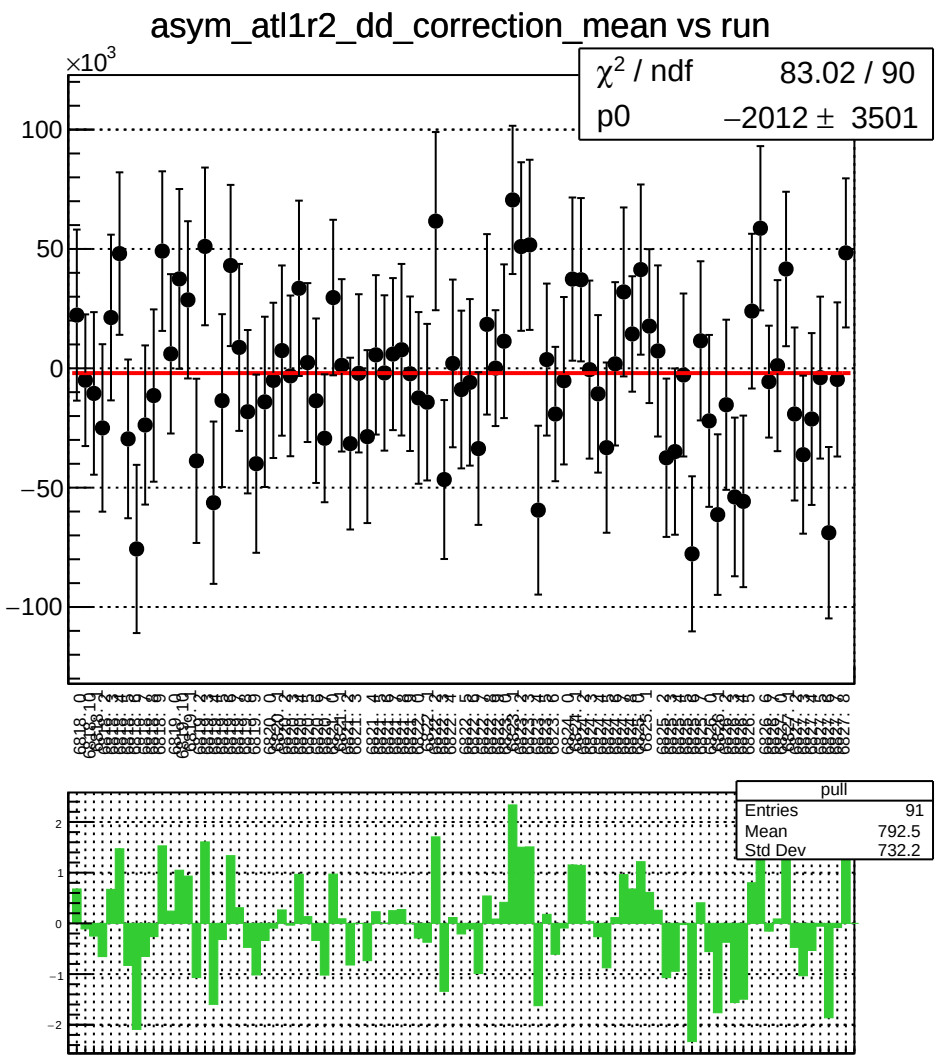

pull1D
Entries 91
Mean −0.002463
Std Dev 0.904
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

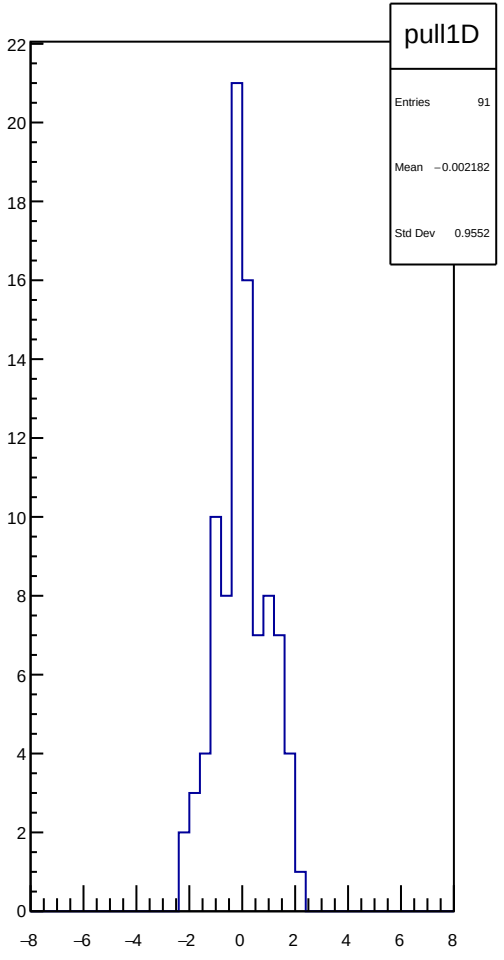

asym_atl1r2_avg_rms vs run
χ² / ndf 3177 / 90
p0 4168 ± 3.172
5200
5000
4800
4600
4400
4200
4000
3800

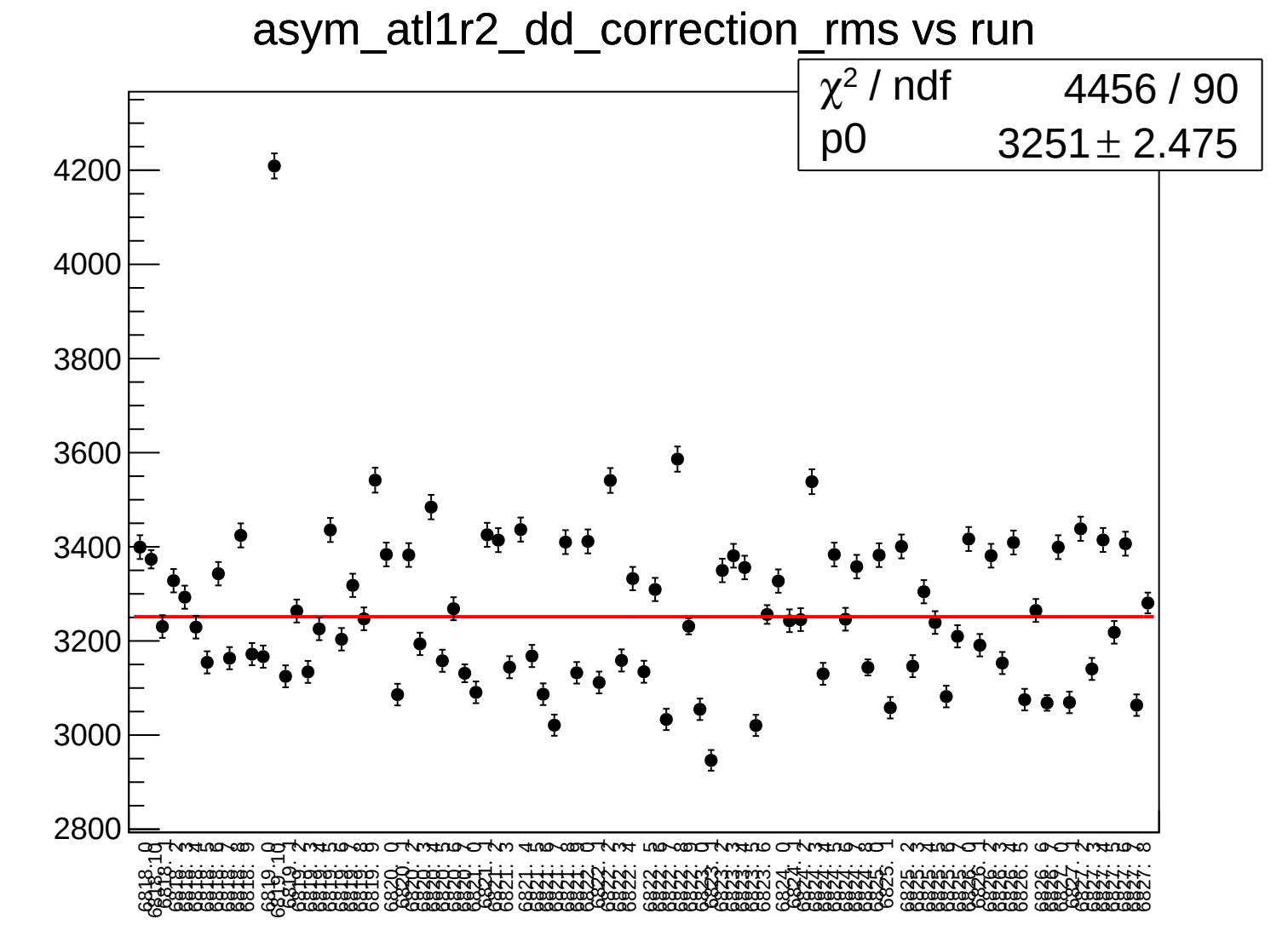

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 95.68 / 90
p0 795.5 ± 1850
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −353.7
Std Dev 371.3
3
2
1
0
−1
−2

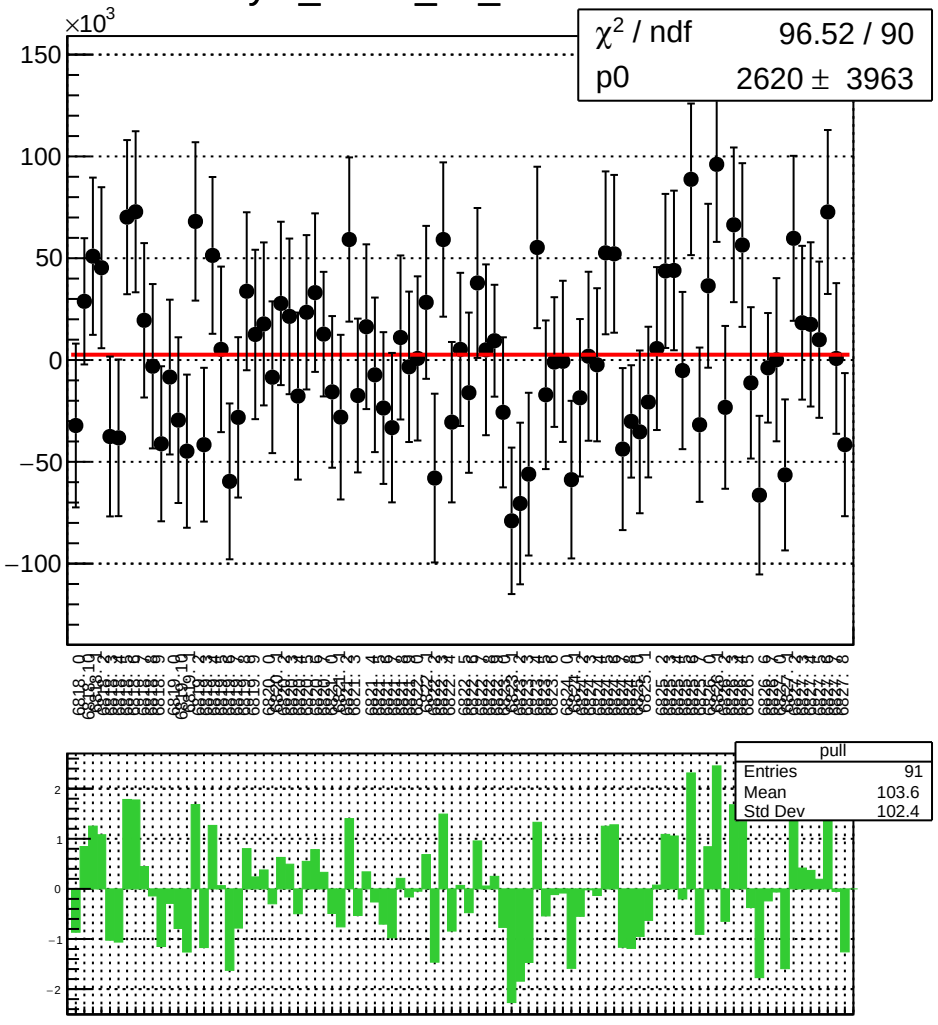

pull1D
Entries 91
Mean 0.005356
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

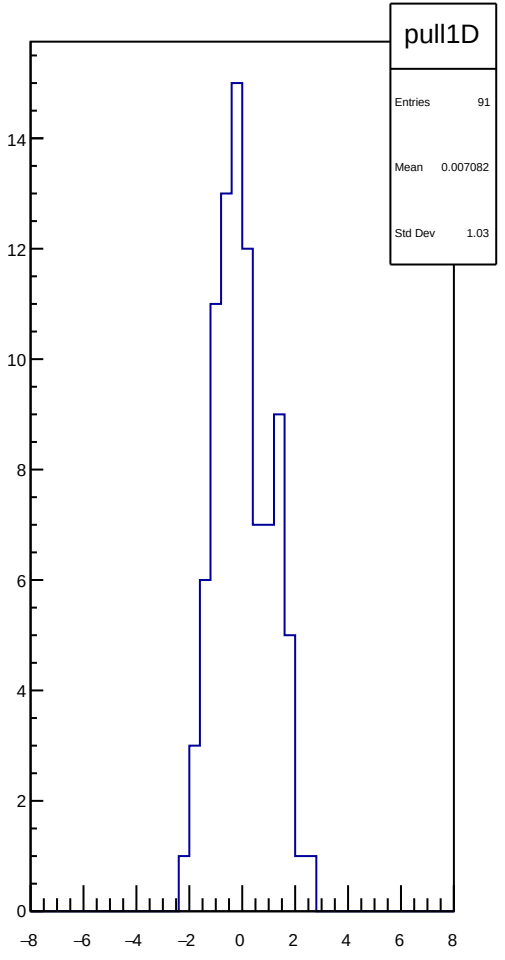

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 90.97 / 90
p0 1720 ± 1.308
1760
1740
1720
1700
1680

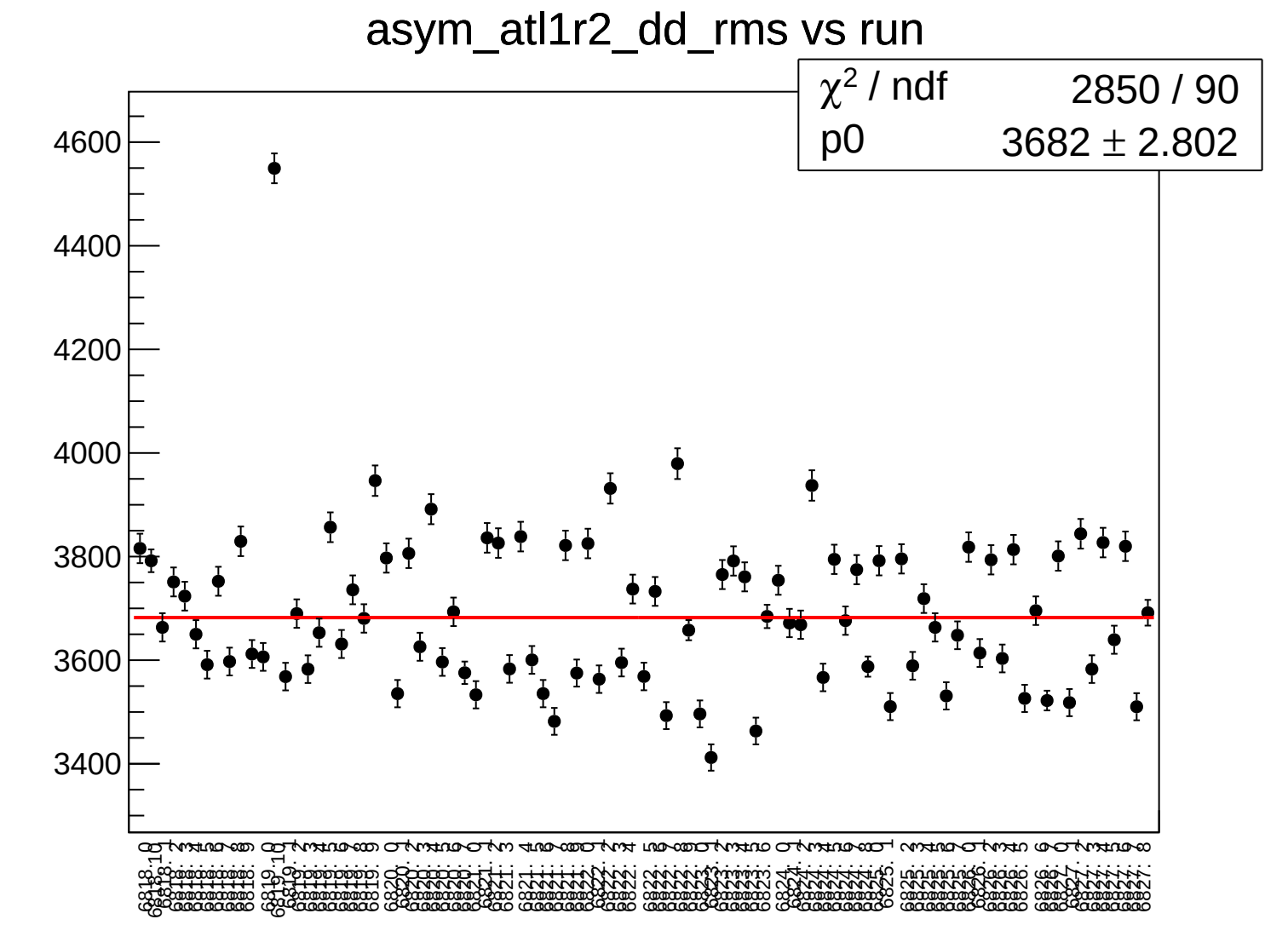

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 83.02 / 90
p0 −2012 ± 3501
pull
Entries 91
Mean 792.5
Std Dev 732.2

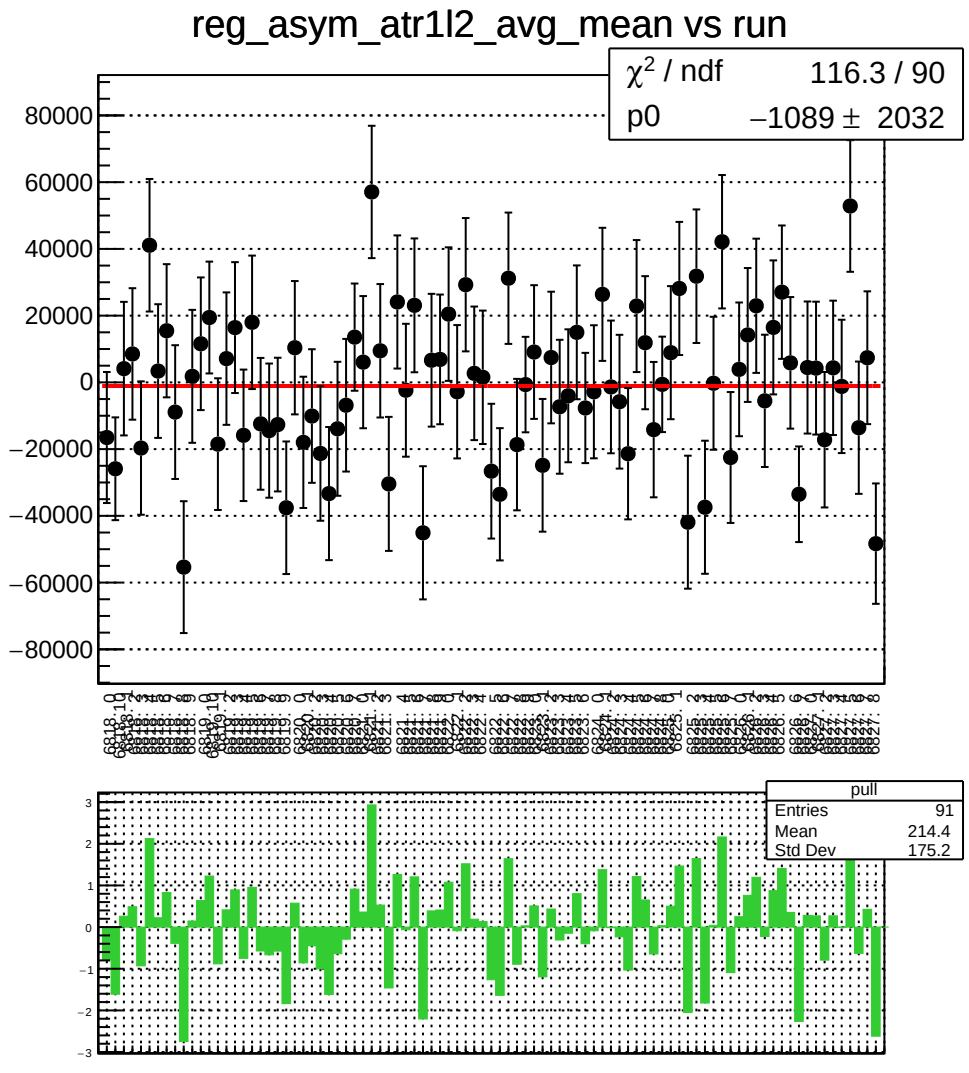

pull1D
Entries 91
Mean −0.002182
Std Dev 0.9552

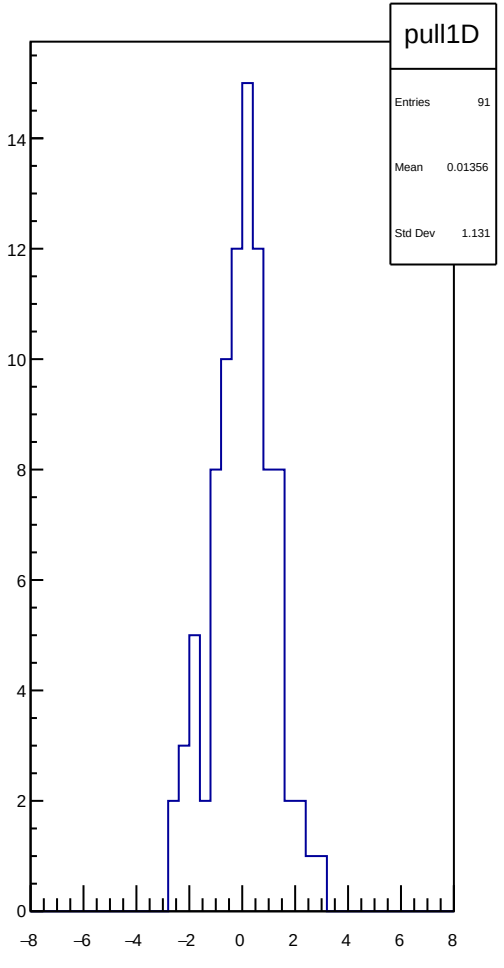

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 4456 / 90
p0 3251 ± 2.475
4200
4000
3800
3600
3400
3200
3000
2800

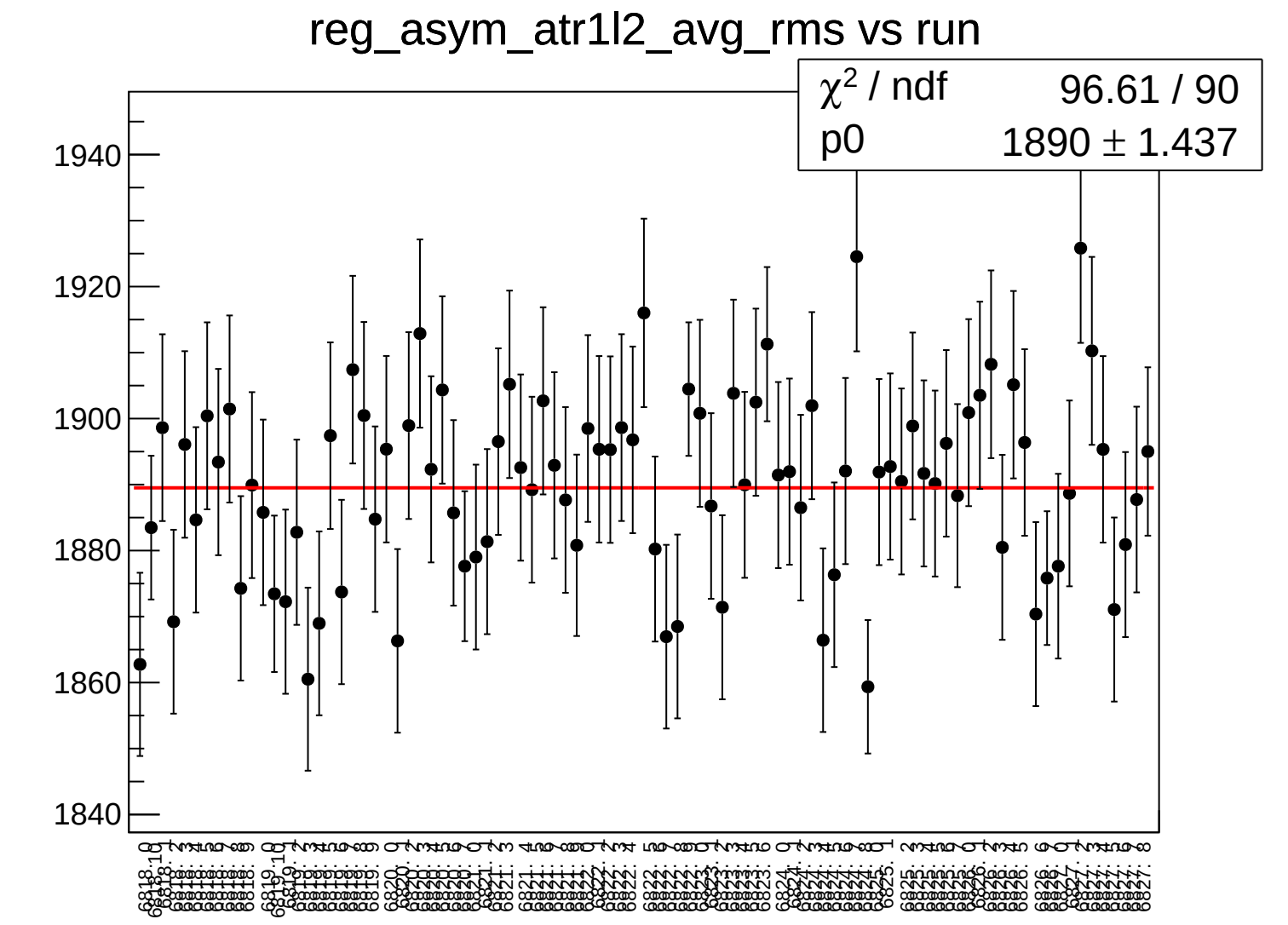

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 96.52 / 90
p0 2620 ± 3963
150
100
50
0
−50
−100
pull
Entries 91
Mean 103.6
Std Dev 102.4
2
1
0
−1
−2

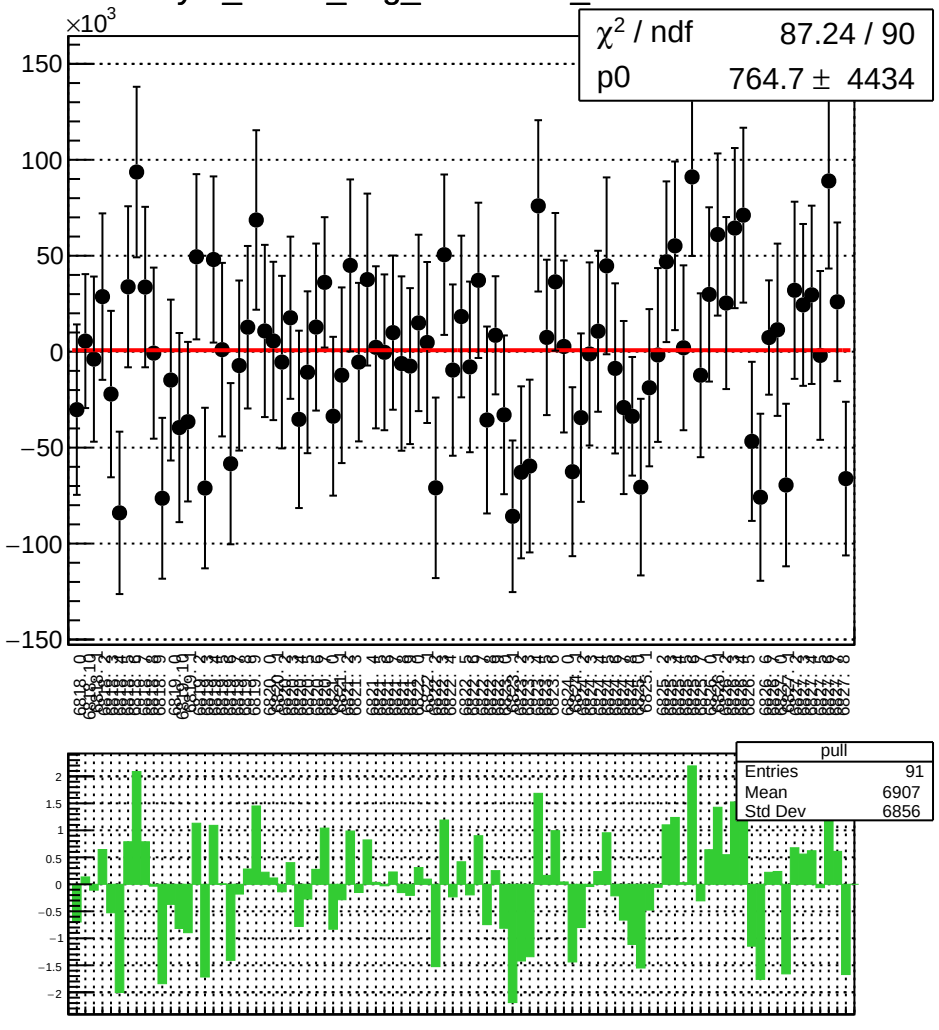

pull1D
Entries 91
Mean 0.007082
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

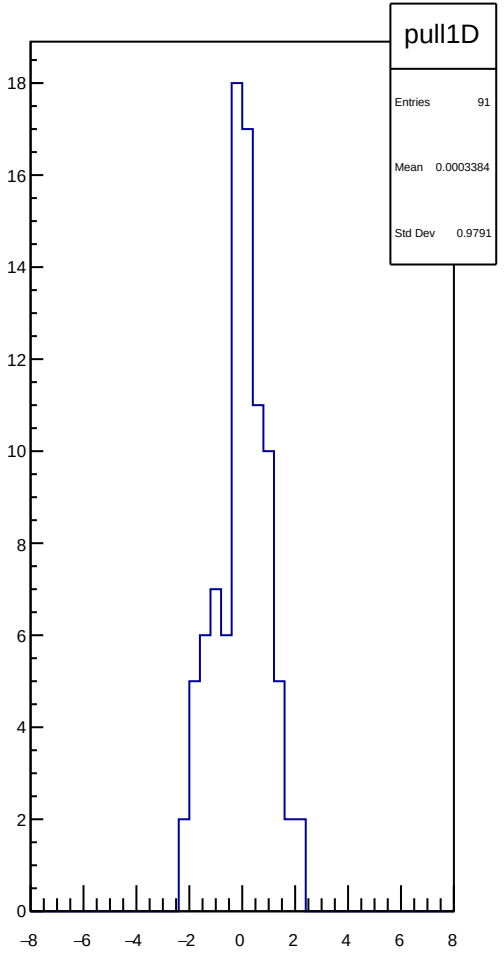

asym_atl1r2_dd_rms vs run
χ² / ndf 2850 / 90
p0 3682 ± 2.802
4600
4400
4200
4000
3800
3600
3400

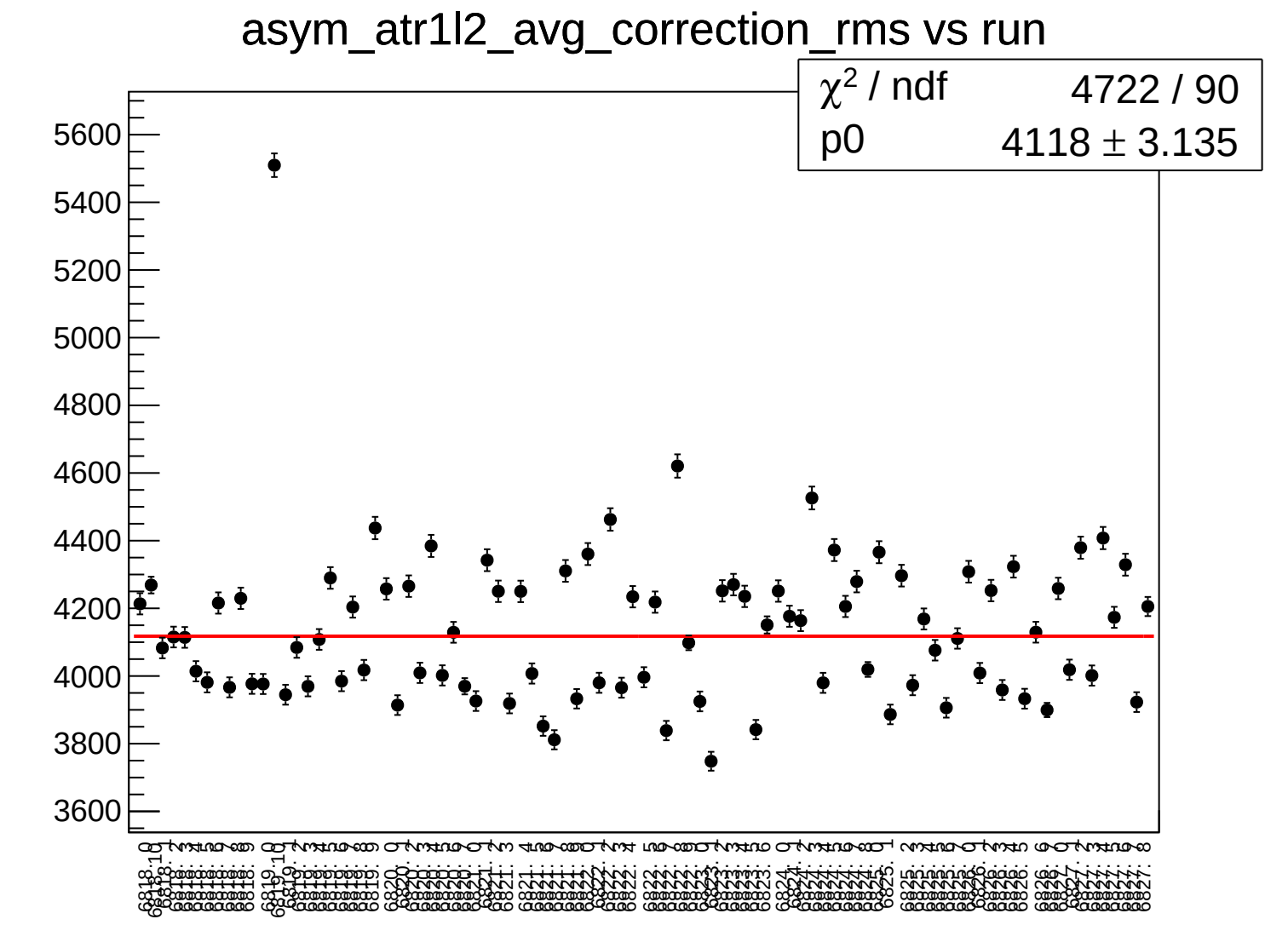

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 116.3 / 90
p0 −1089 ± 2032
pull
Entries 91
Mean 214.4
Std Dev 175.2

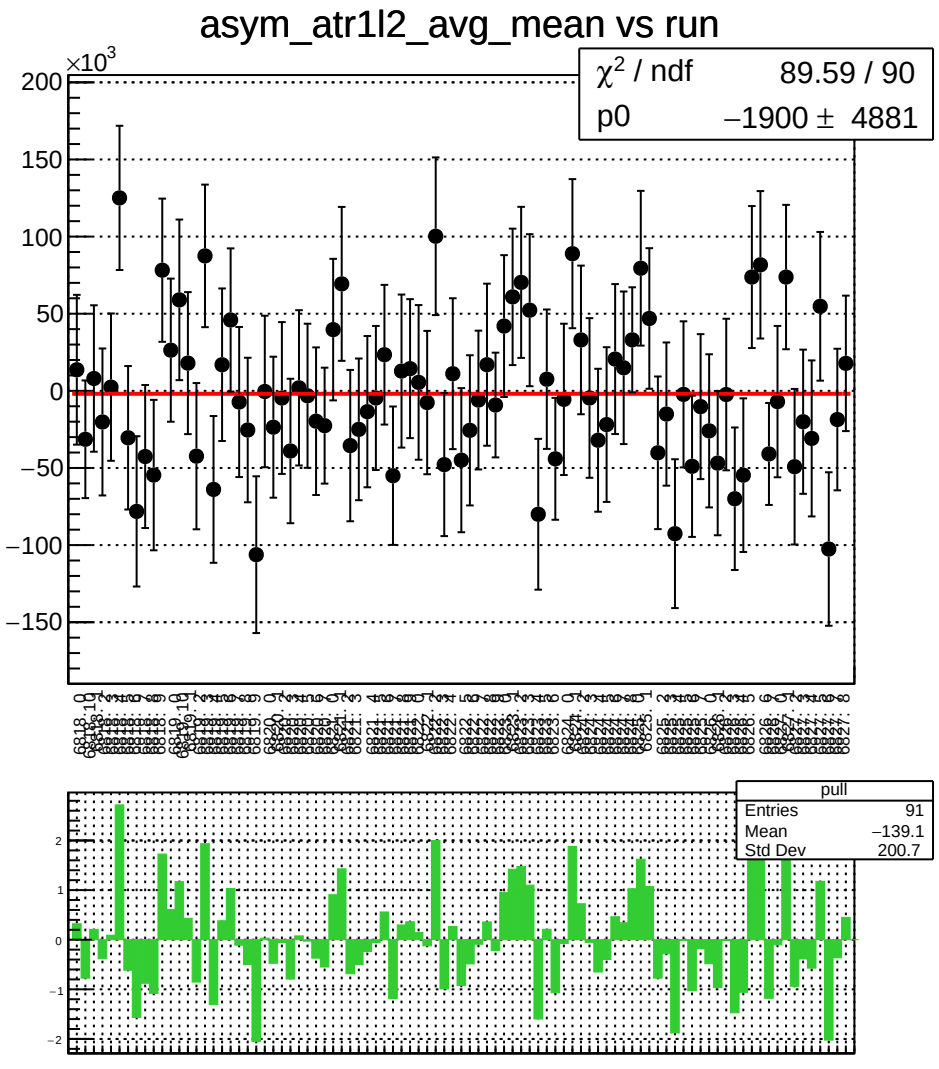

pull1D
Entries 91
Mean 0.01356
Std Dev 1.131

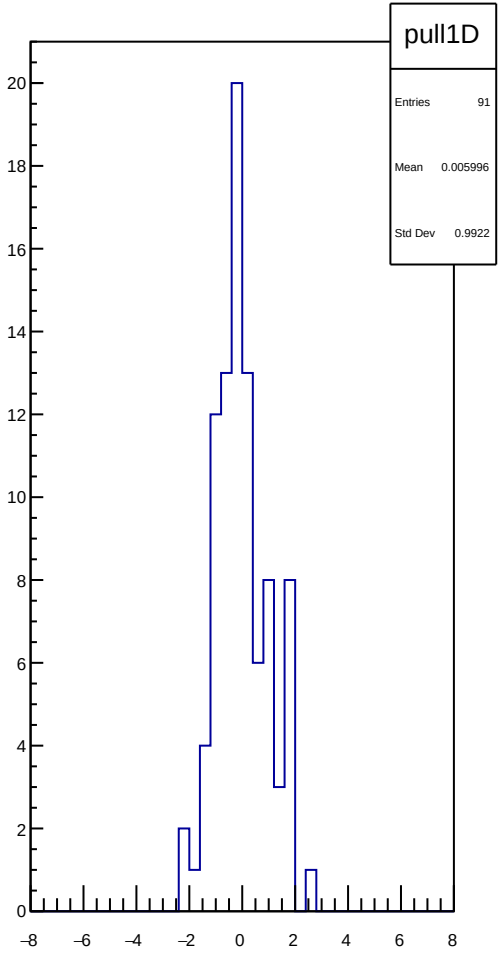

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 96.61 / 90
p0 1890 ± 1.437
1940
1920
1900
1880
1860
1840

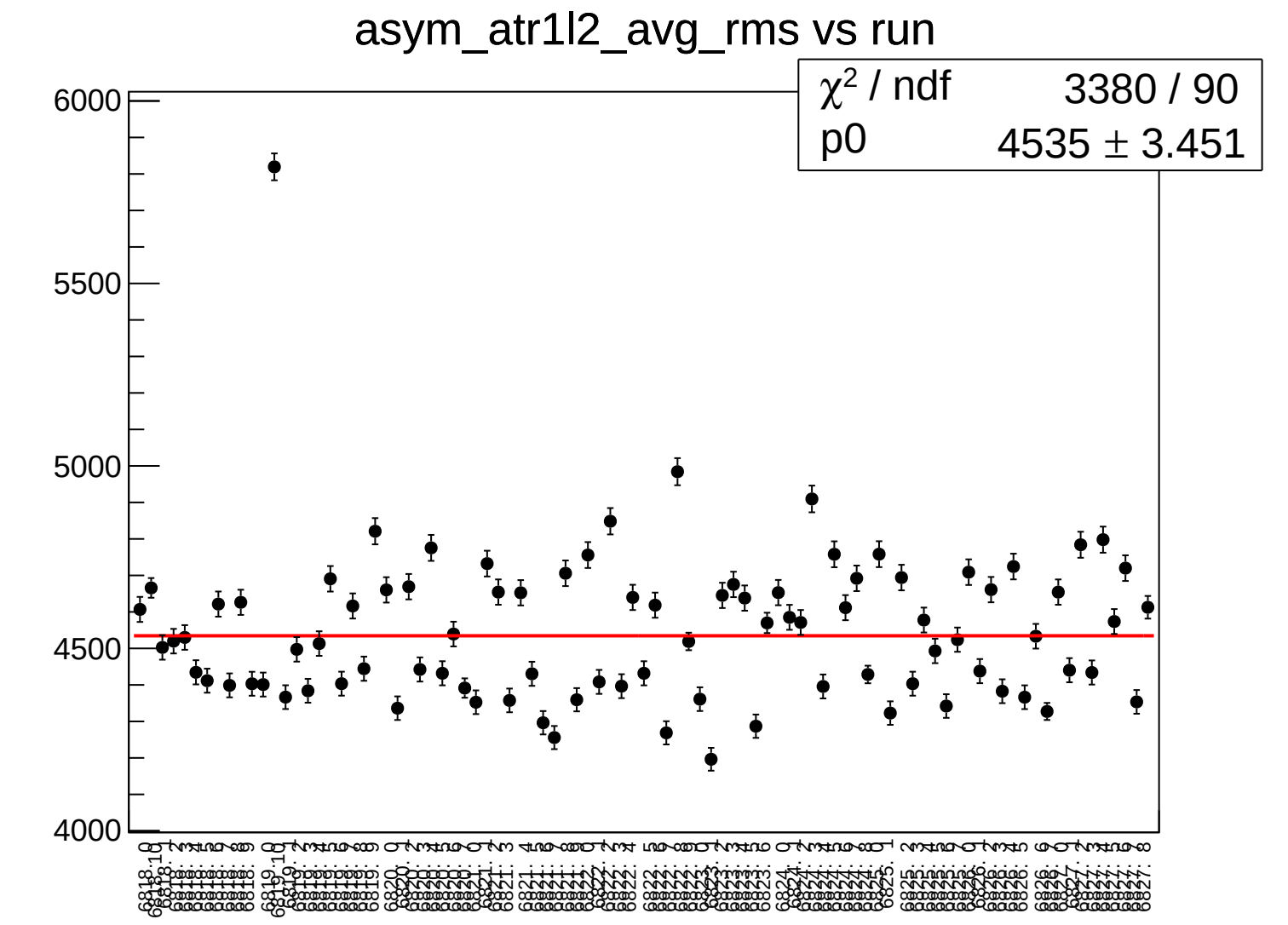

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 87.24 / 90
p0 764.7 ± 4434
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 6907
Std Dev 6856
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

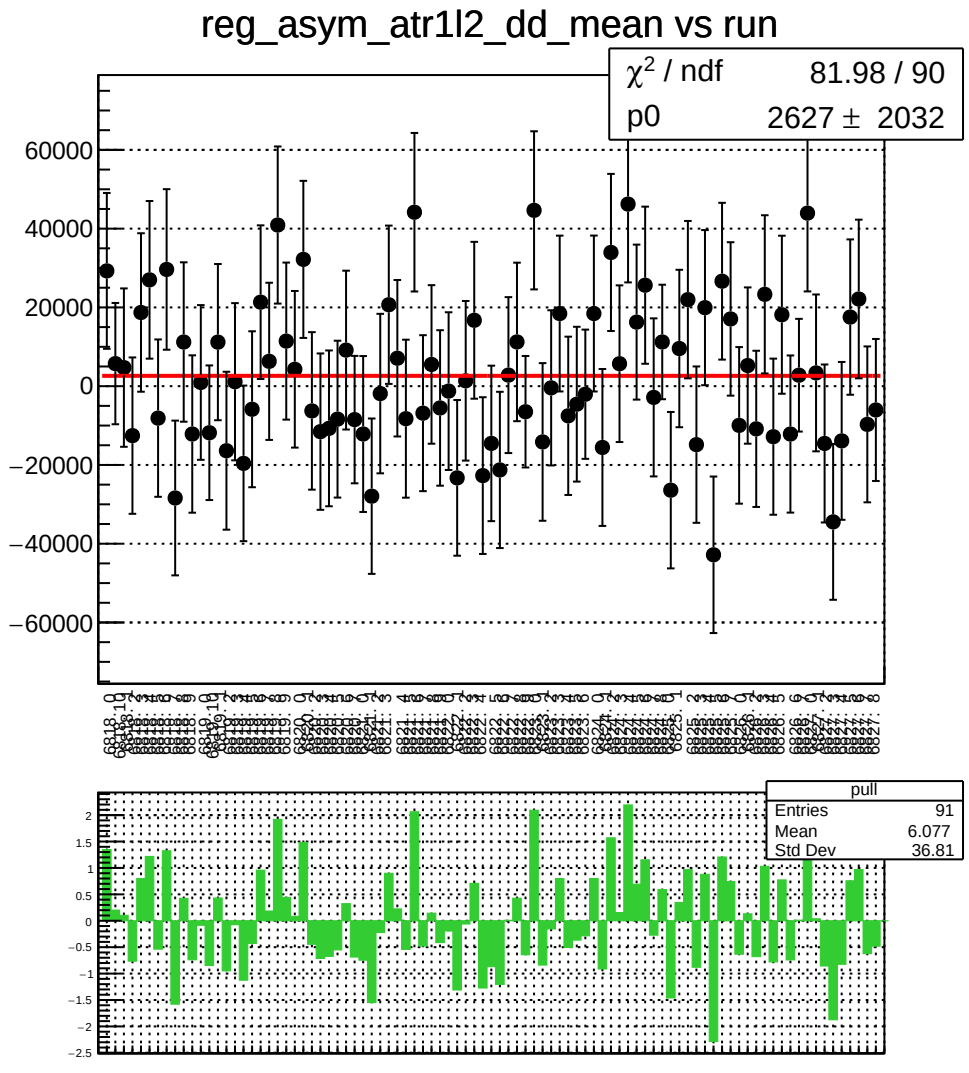

pull1D
Entries 91
Mean 0.0003384
Std Dev 0.9791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

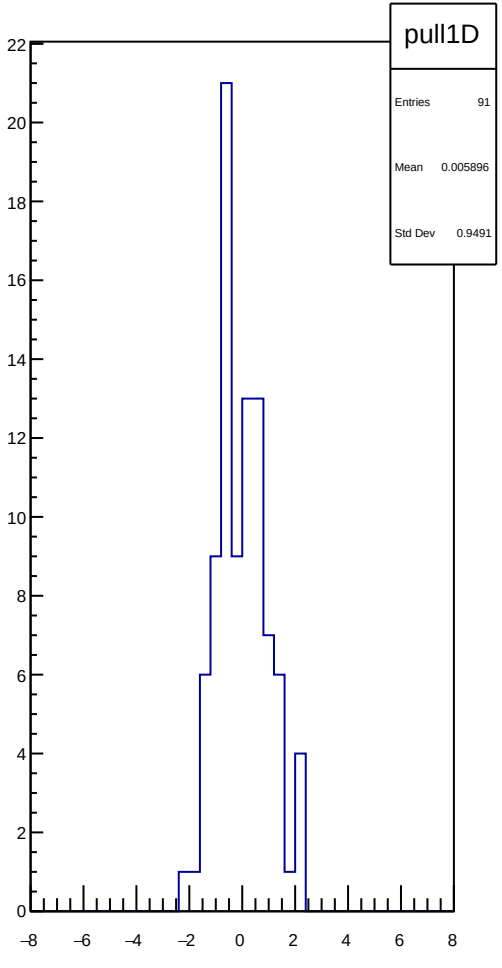

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 4722 / 90
p0 4118 ± 3.135
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

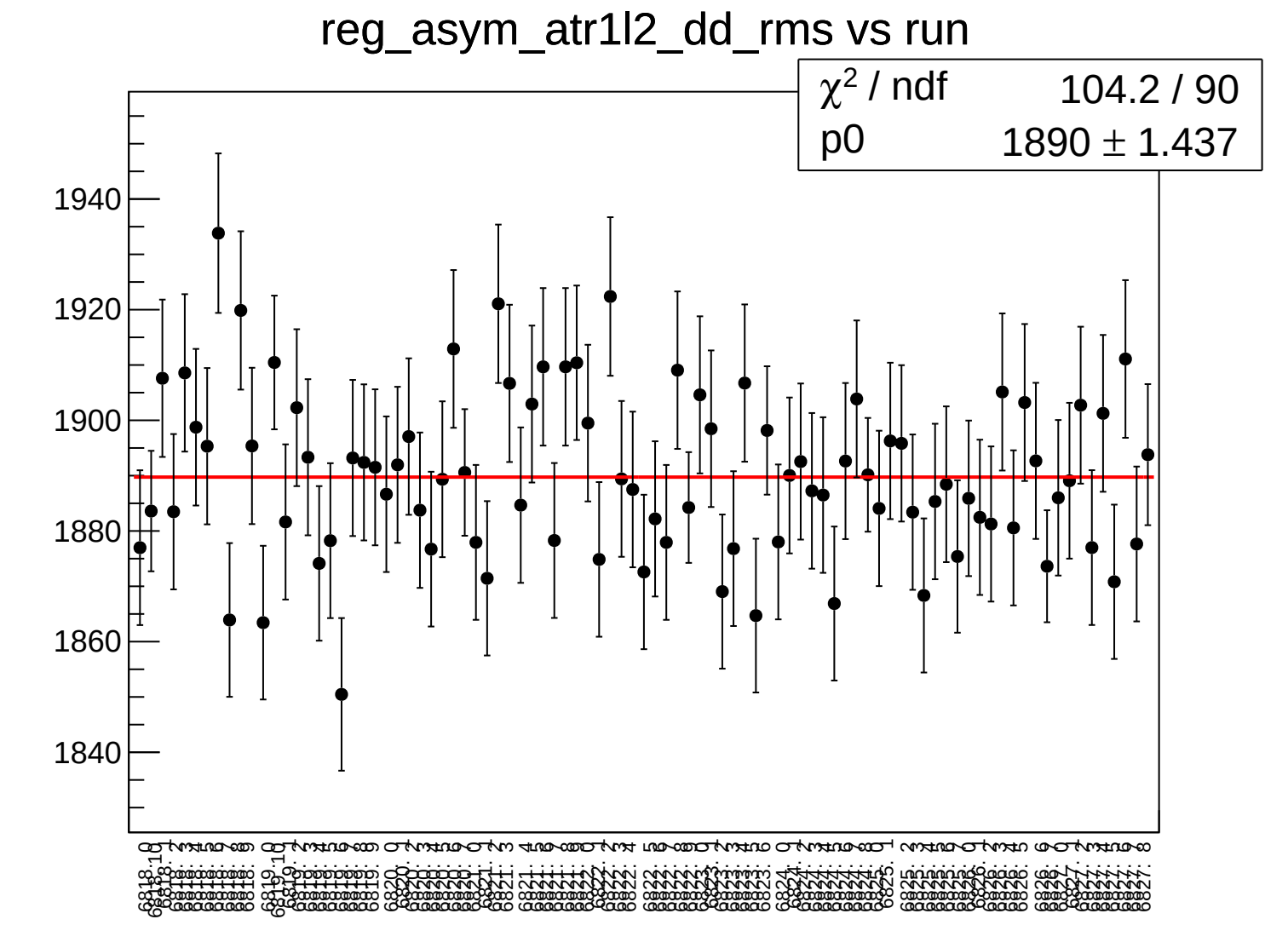

asym_atr1l2_avg_mean vs run
χ^2 / ndf 89.59 / 90
p0 −1900 ± 4881
×10^3
pull
Entries 91
Mean −139.1
Std Dev 200.7

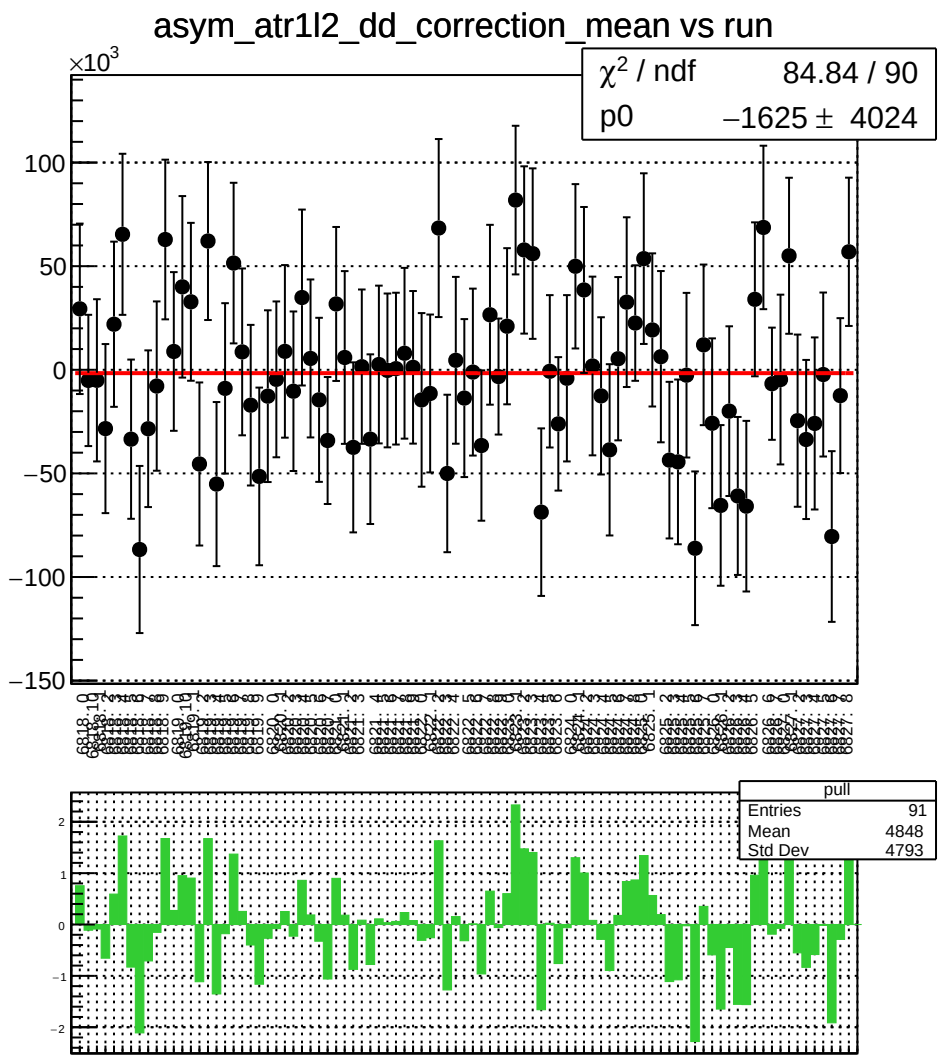

pull1D
Entries 91
Mean 0.005996
Std Dev 0.9922

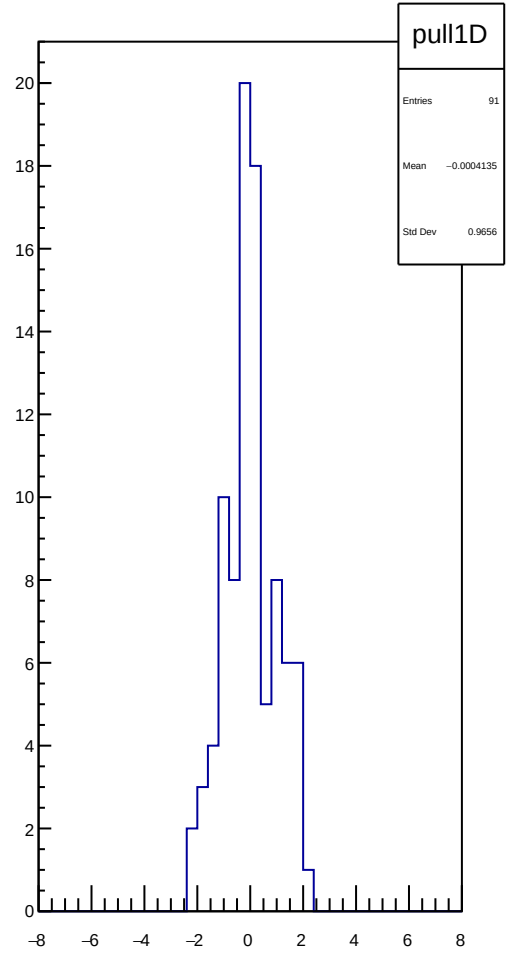

asym_atr1l2_avg_rms vs run
χ² / ndf 3380 / 90
p0 4535 ± 3.451
6000
5500
5000
4500
4000

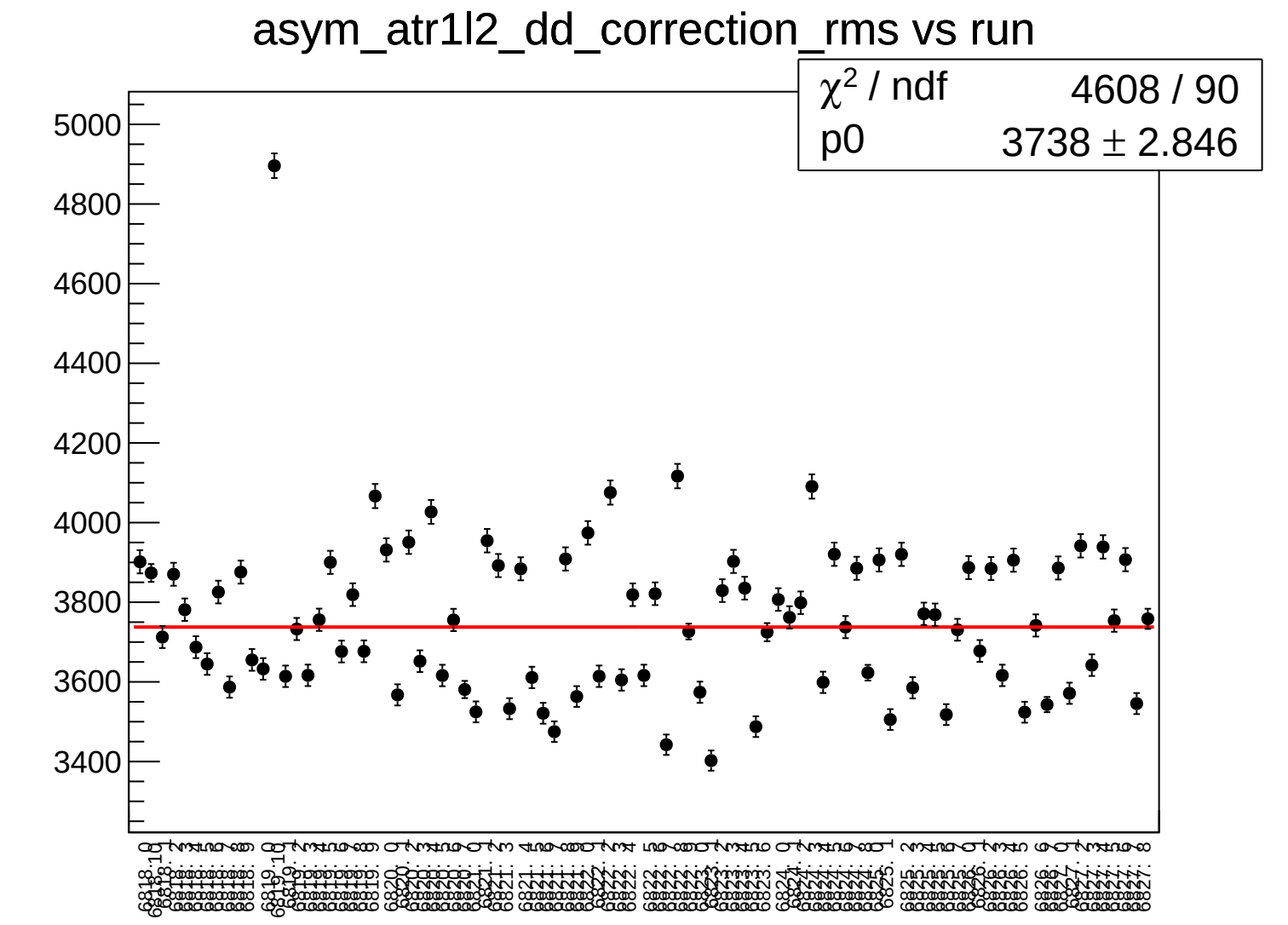

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 81.98 / 90
p0 2627 ± 2032
pull
Entries 91
Mean 6.077
Std Dev 36.81

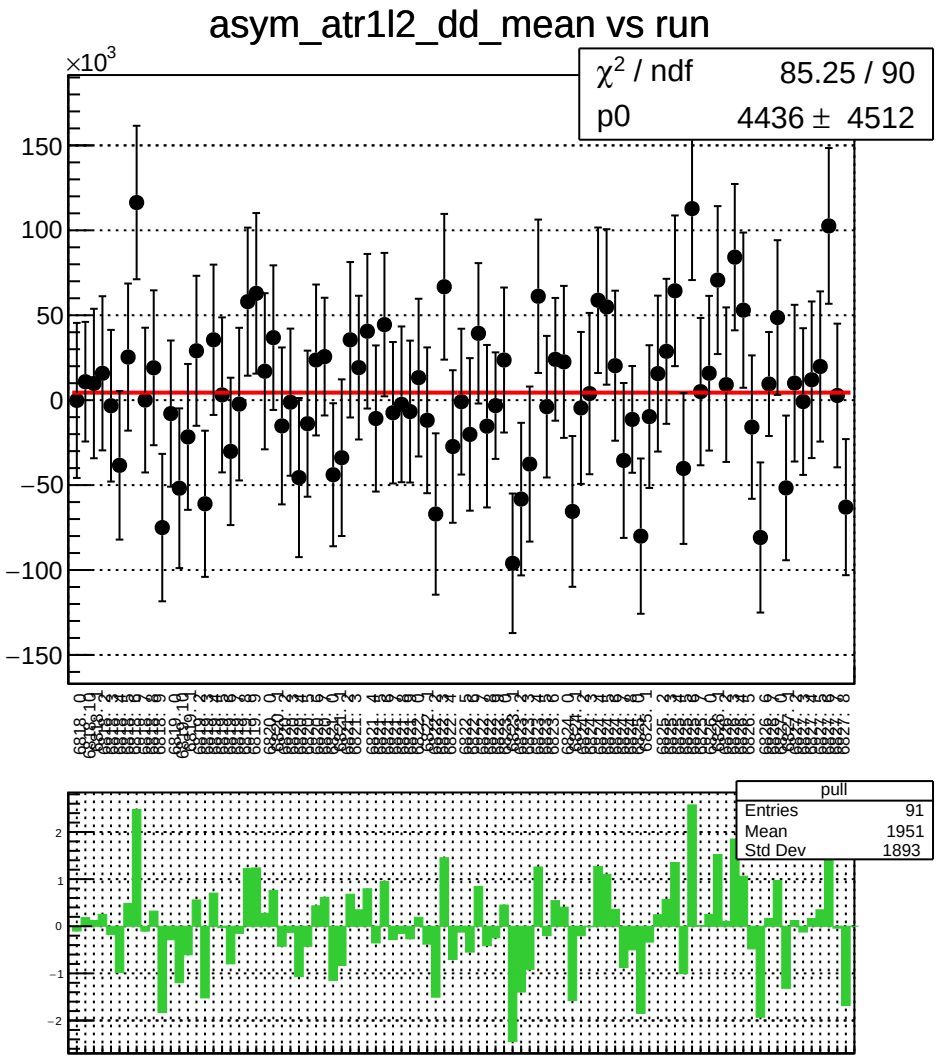

pull1D
Entries 91
Mean 0.005896
Std Dev 0.9491

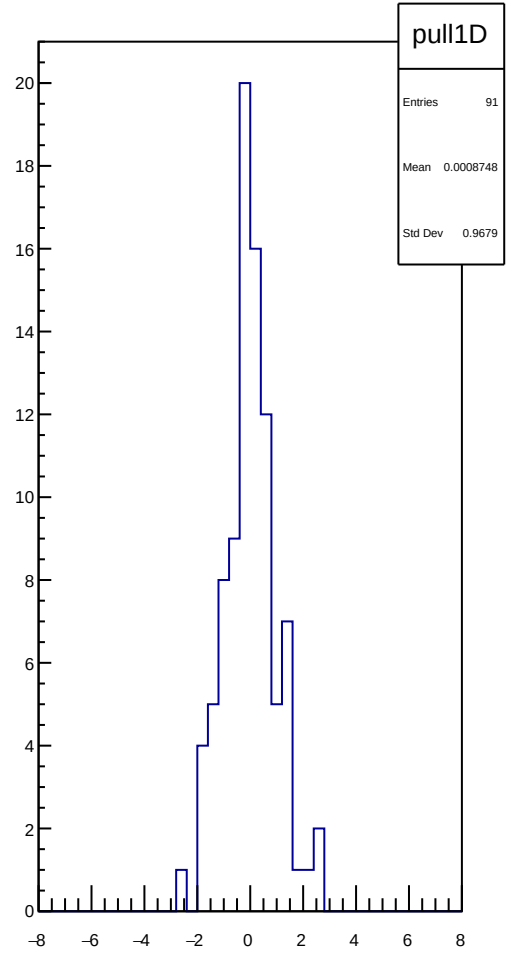

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 104.2 / 90
p0 1890 ± 1.437
1940
1920
1900
1880
1860
1840

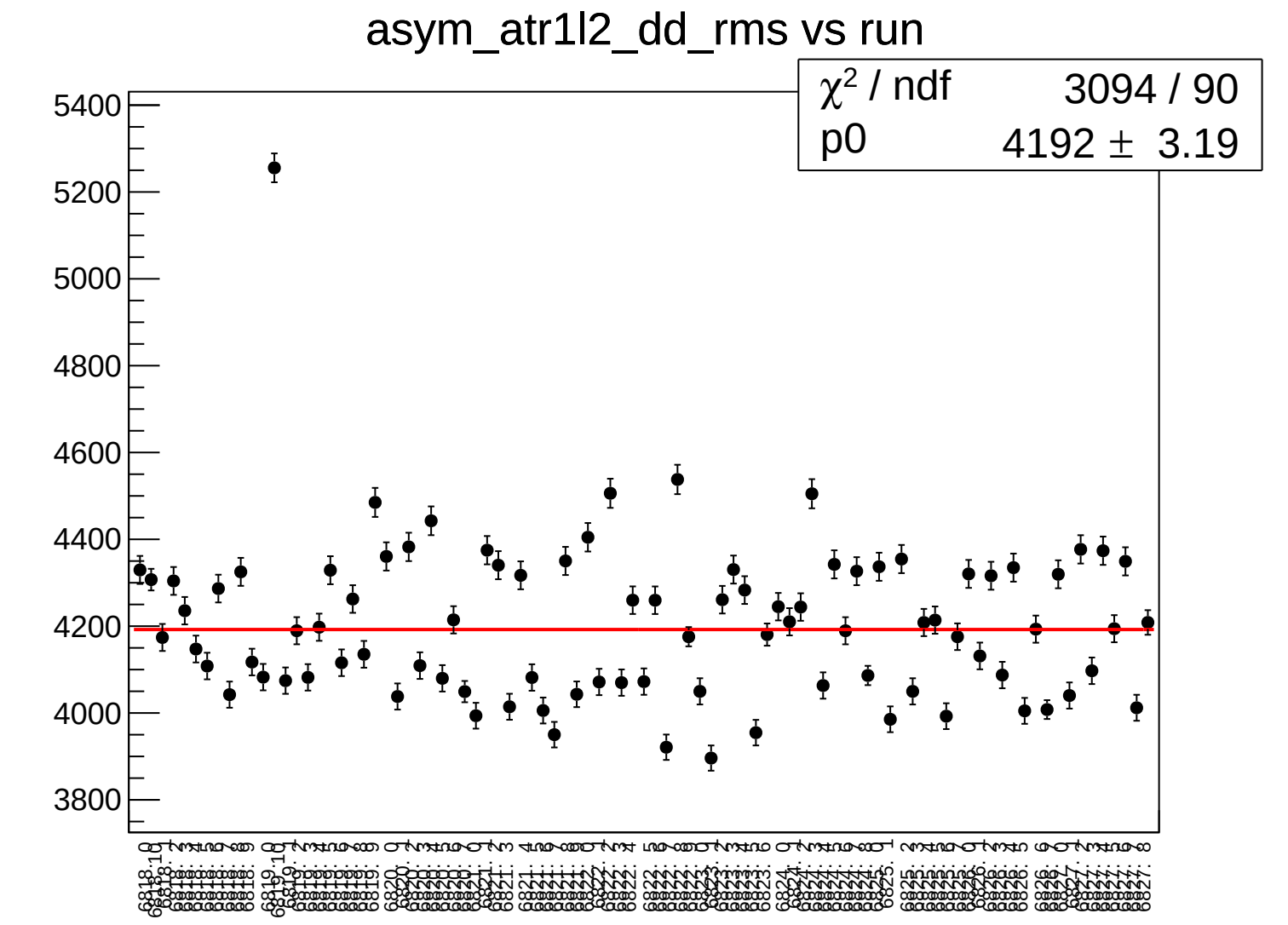

asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 84.84 / 90
p0 −1625 ± 4024
100
50
0
−50
−100
−150
pull
Entries 91
Mean 4848
Std Dev 4793
2
1
0
−1
−2

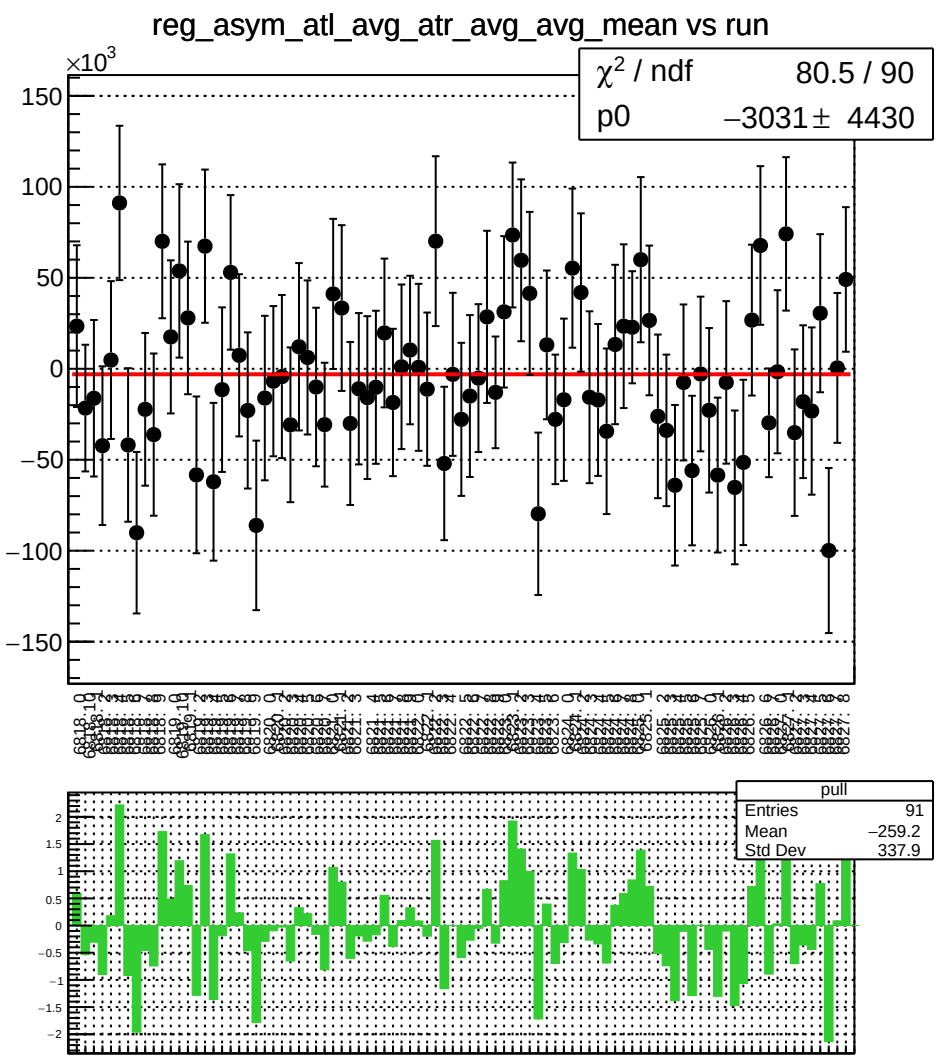

pull1D
Entries 91
Mean −0.0004135
Std Dev 0.9656
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

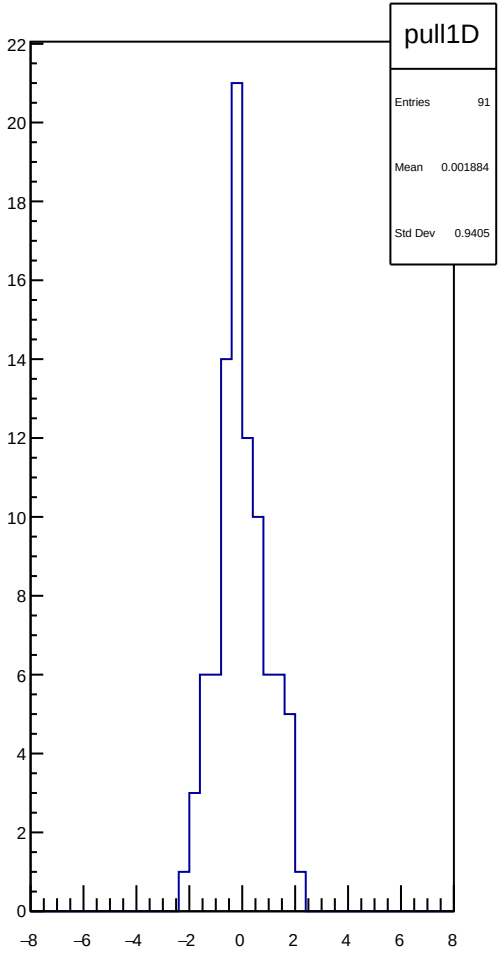

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 4608 / 90
p0 3738 ± 2.846
5000
4800
4600
4400
4200
4000
3800
3600
3400

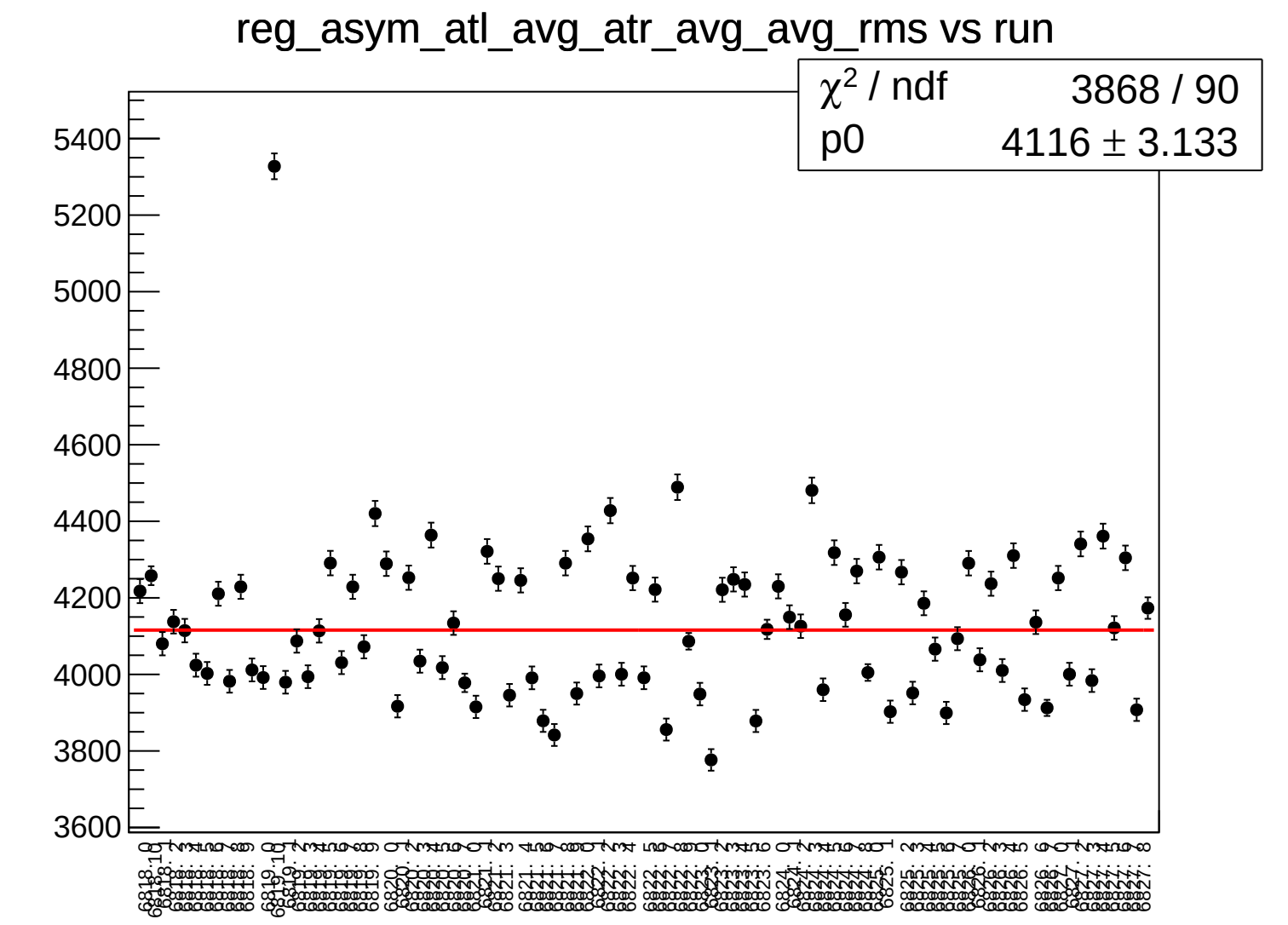

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 85.25 / 90
p0 4436 ± 4512
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 1951
Std Dev 1893
2
1
0
−1
−2

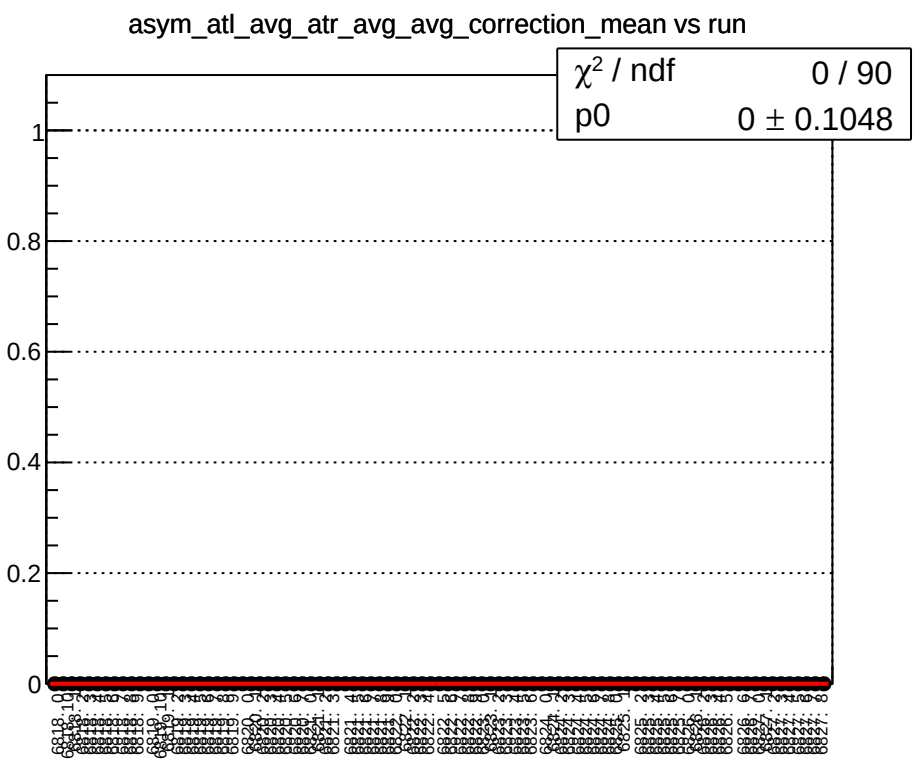

pull1D
Entries 91
Mean 0.0008748
Std Dev 0.9679
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

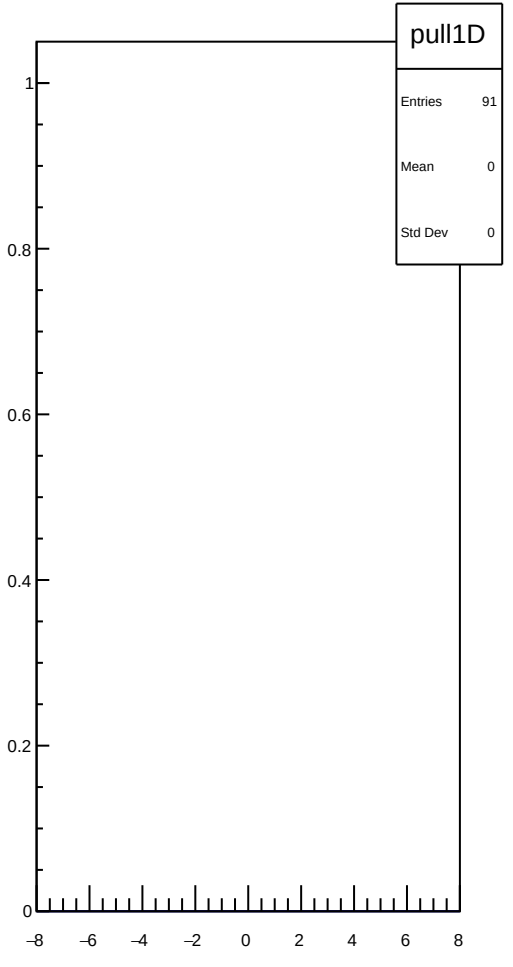

asym_atr1l2_dd_rms vs run
χ² / ndf 3094 / 90
p0 4192 ± 3.19
5400
5200
5000
4800
4600
4400
4200
4000
3800

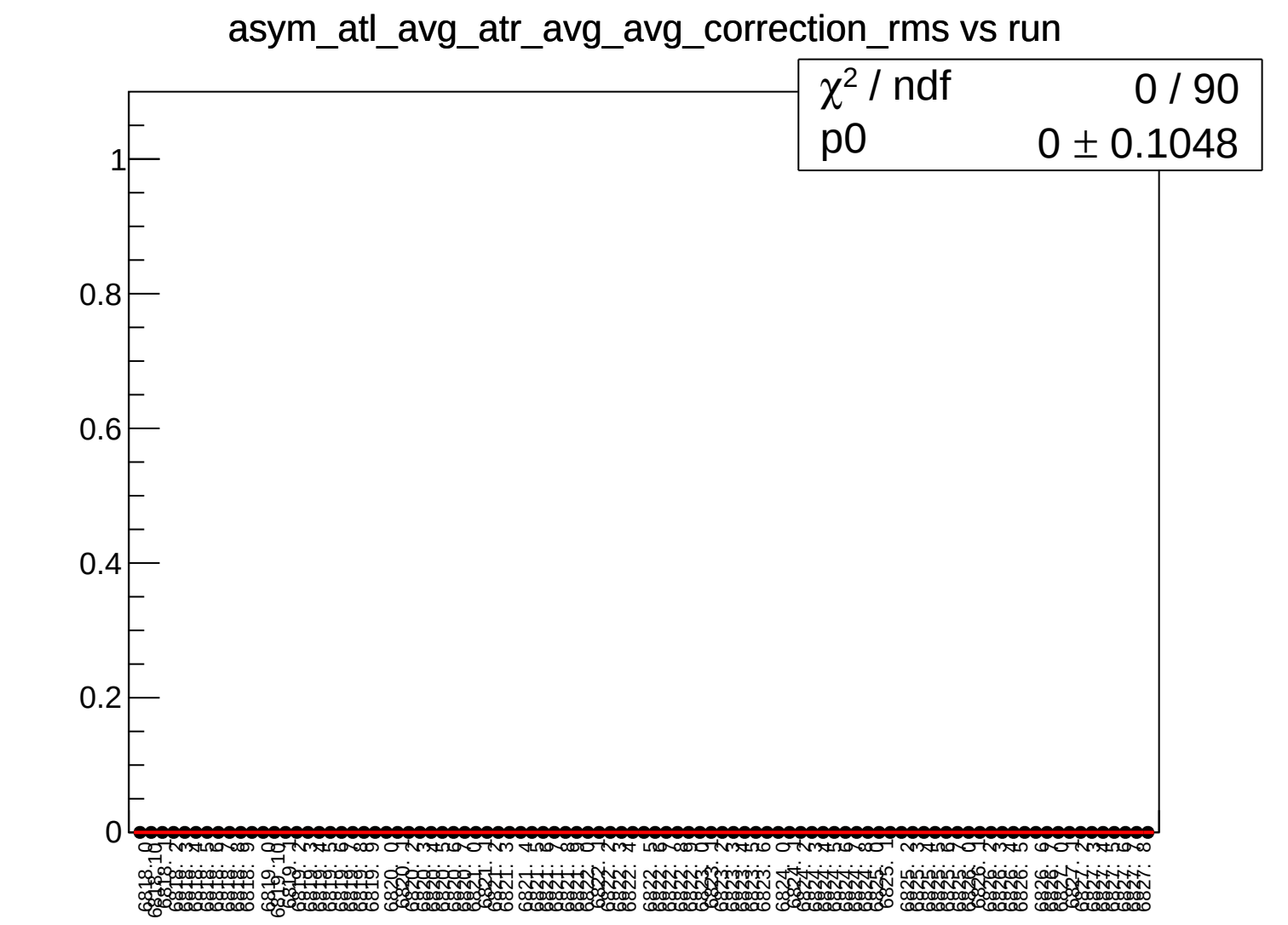

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.5 / 90
p0 −3031 ± 4430
×10³
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −259.2
Std Dev 337.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

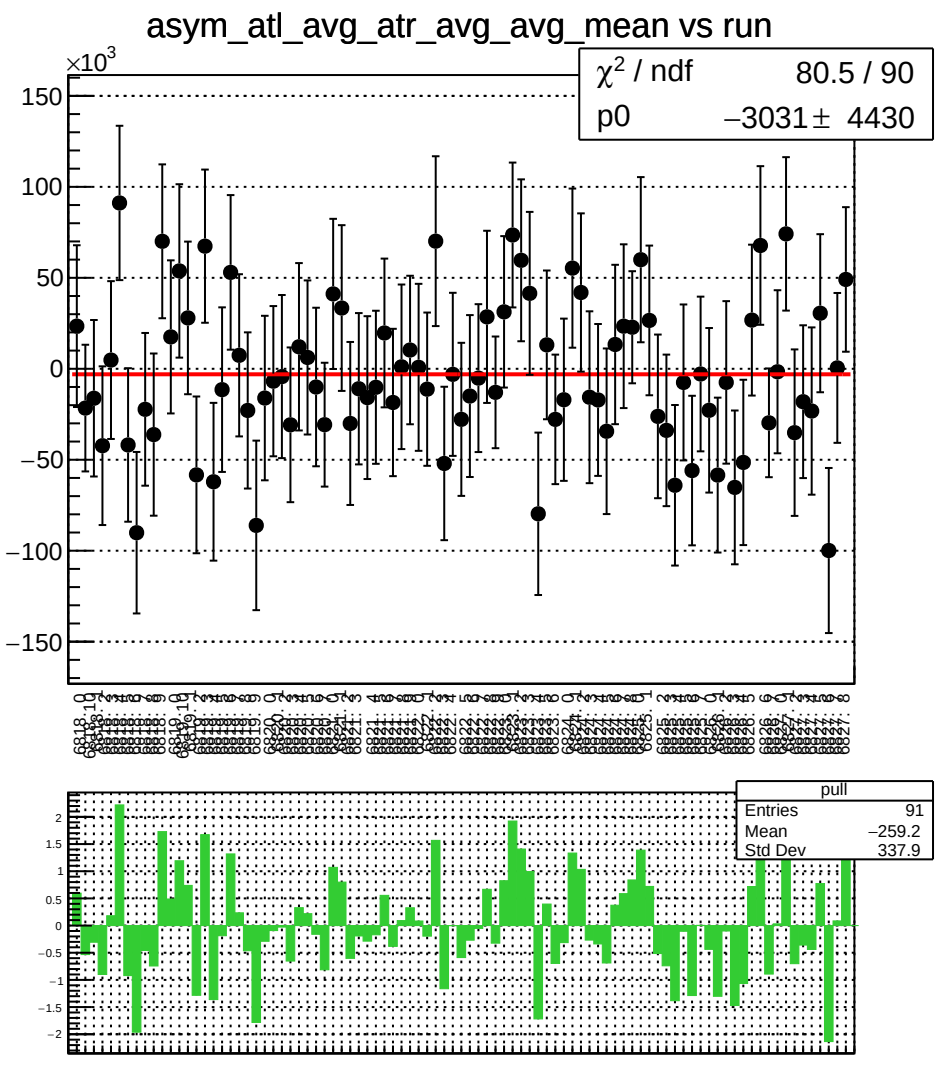

pull1D
Entries 91
Mean 0.001884
Std Dev 0.9405
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

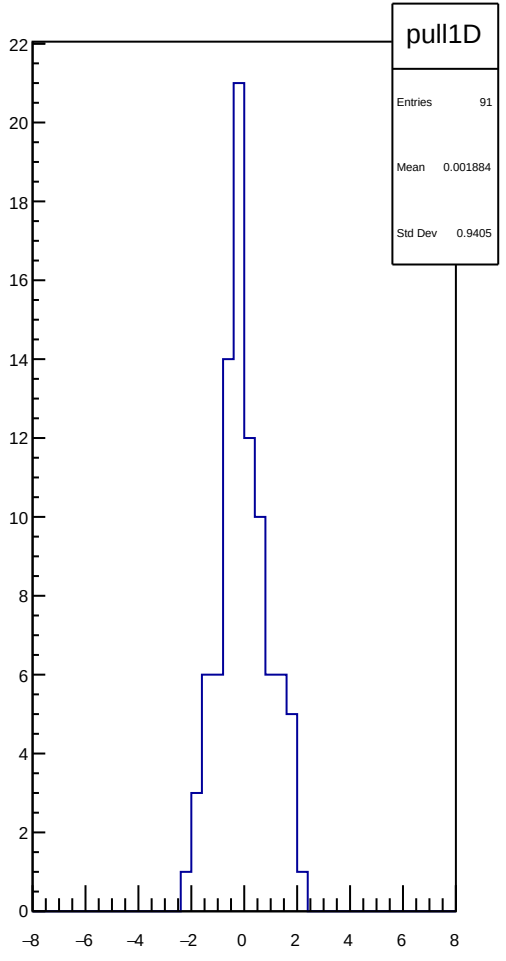

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3868 / 90
p0 4116 ± 3.133
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

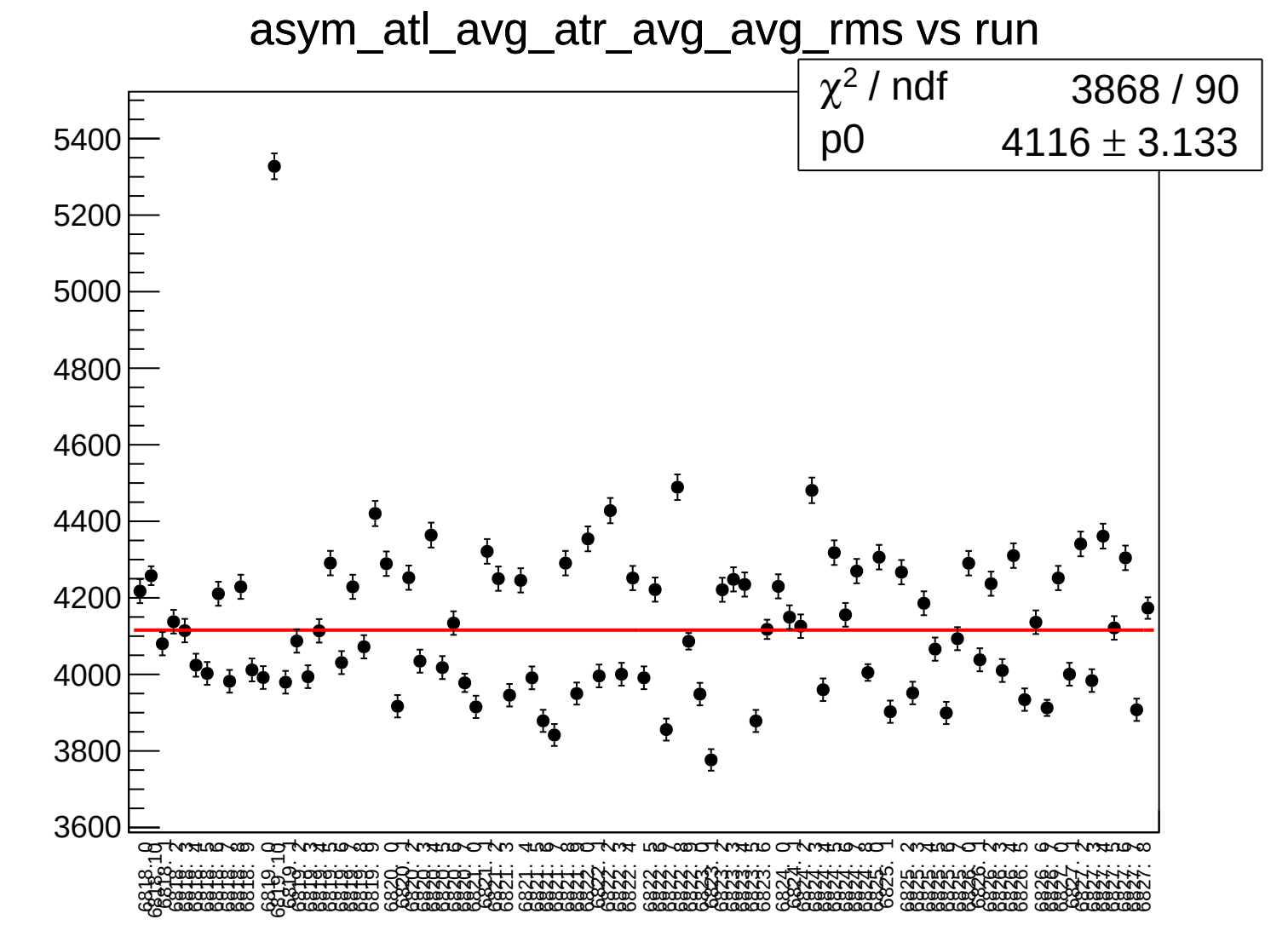

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 90
p0 0 ± 0.1048
1
0.8
0.6
0.4
0.2
0

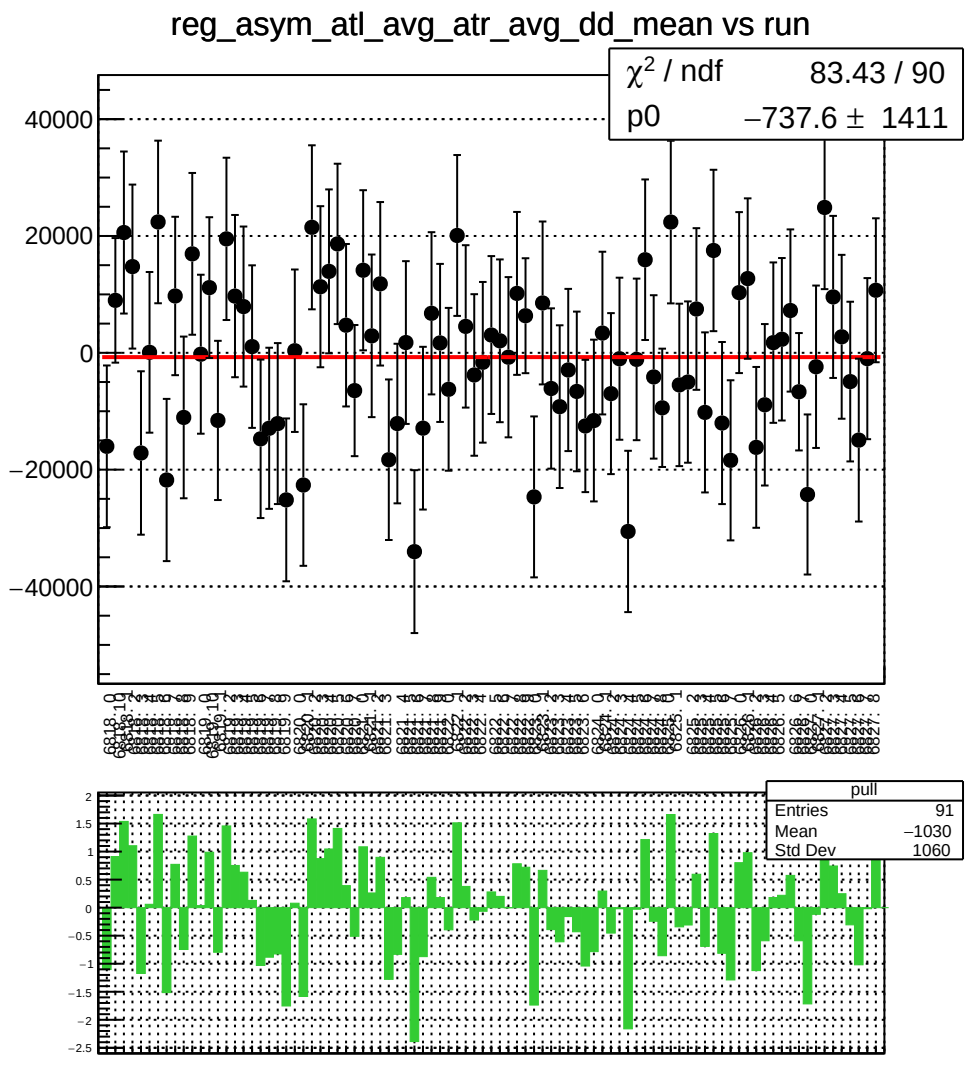

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

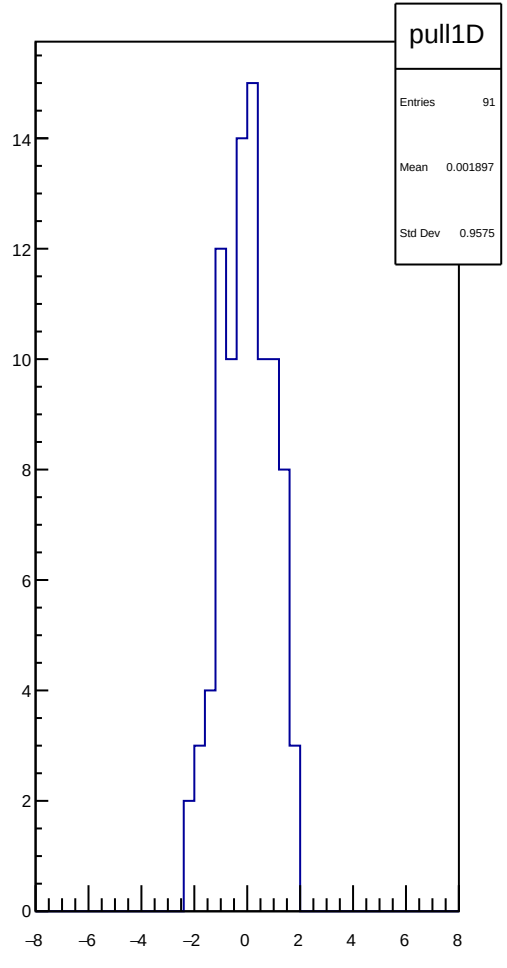

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 90
p0 0 ± 0.1048
1
0.8
0.6
0.4
0.2
0

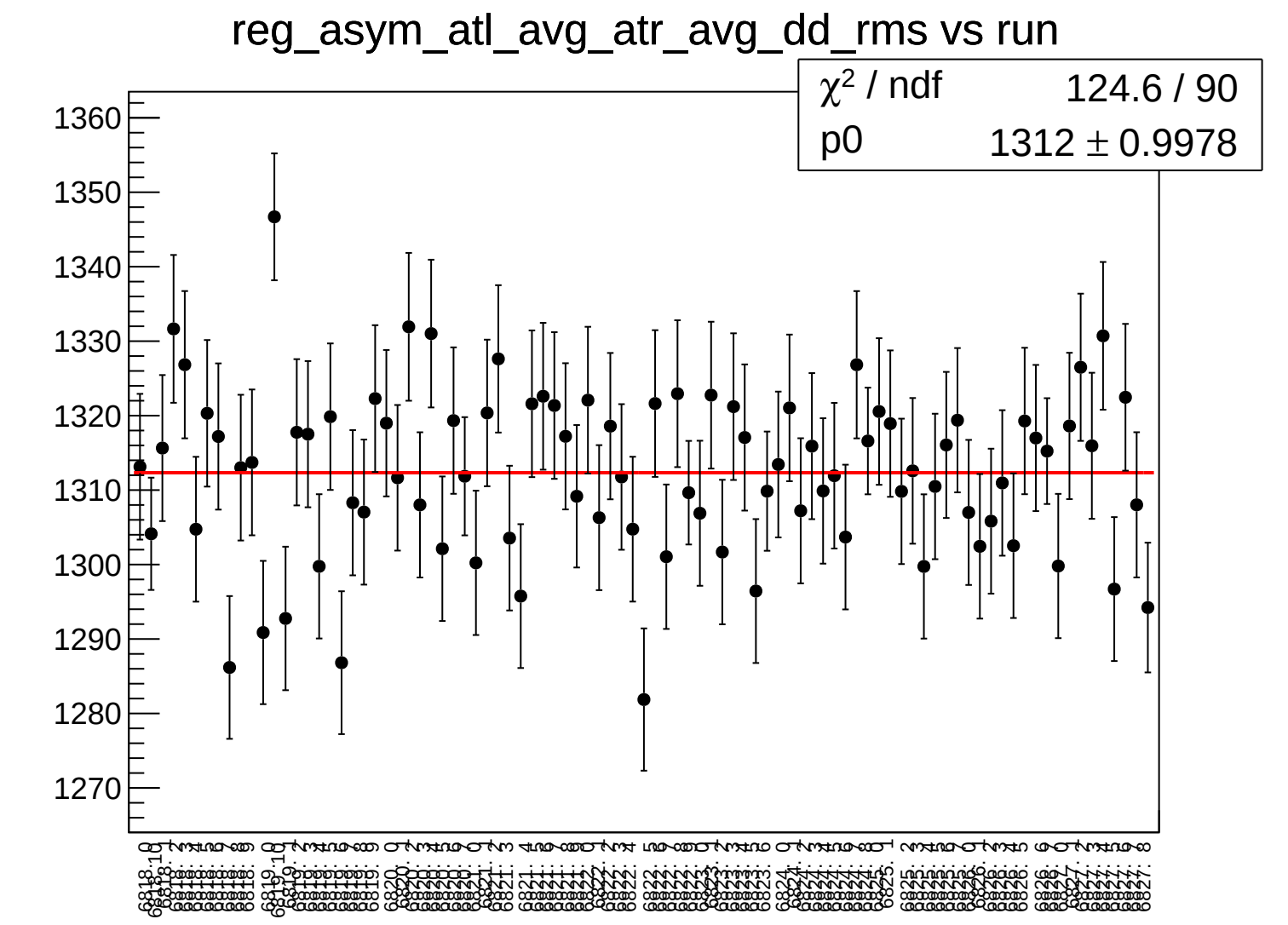

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 80.5 / 90
p0 −3031 ± 4430
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −259.2
Std Dev 337.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

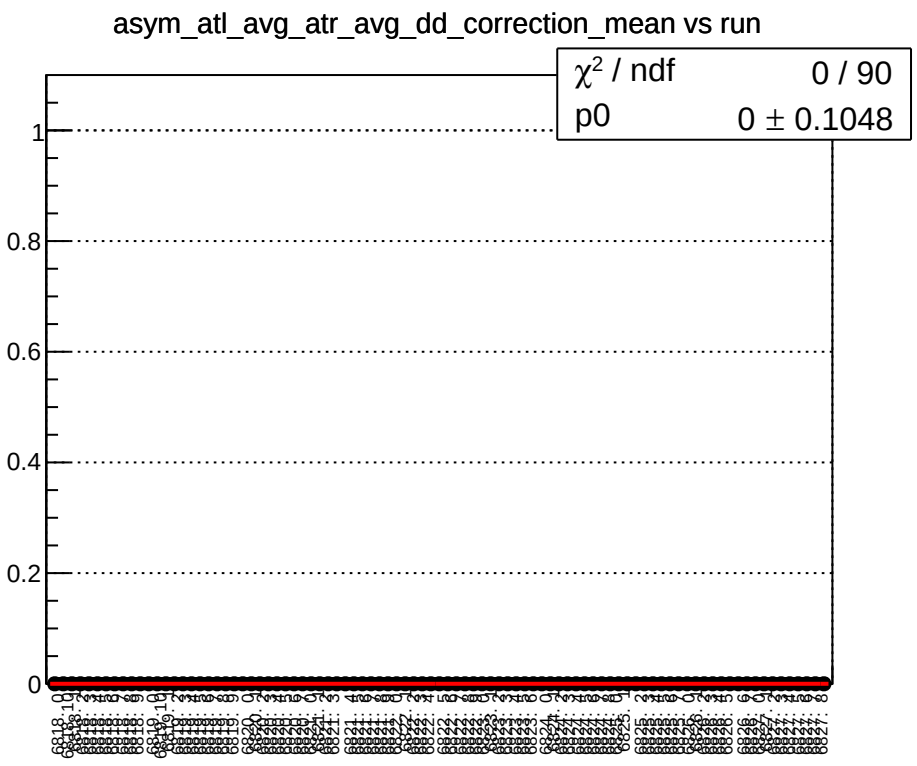

pull1D
Entries 91
Mean 0.001884
Std Dev 0.9405
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

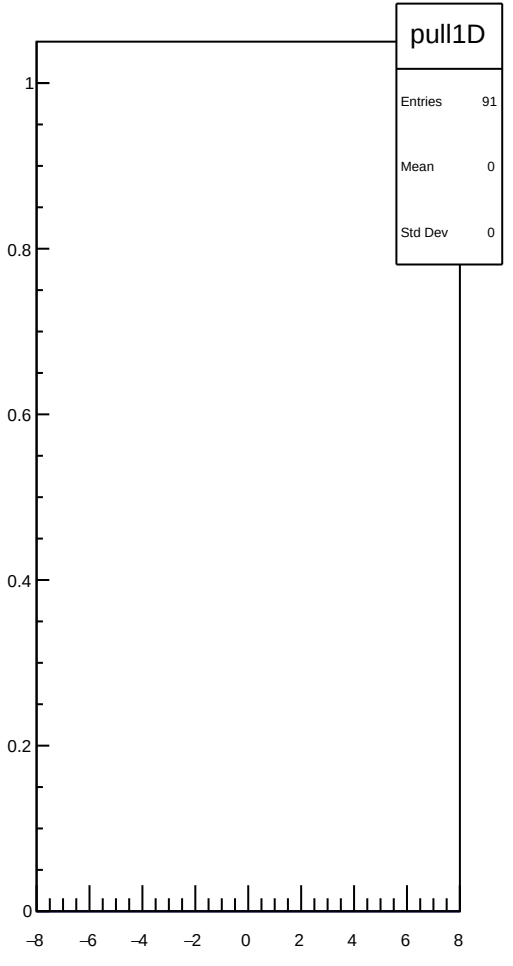

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3868 / 90
p0 4116 ± 3.133
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

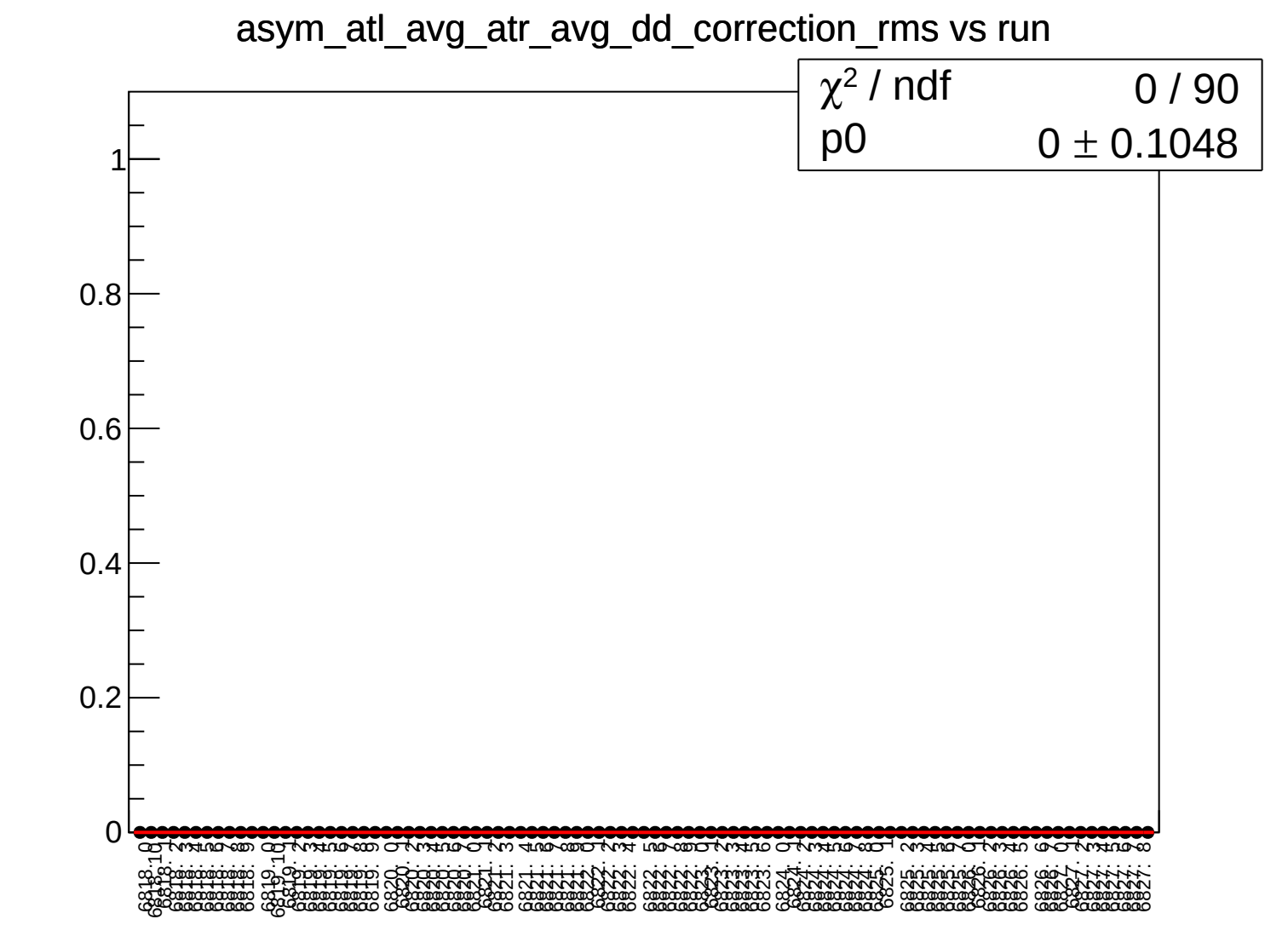

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.43 / 90
p0 −737.6 ± 1411
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −1030
Std Dev 1060
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

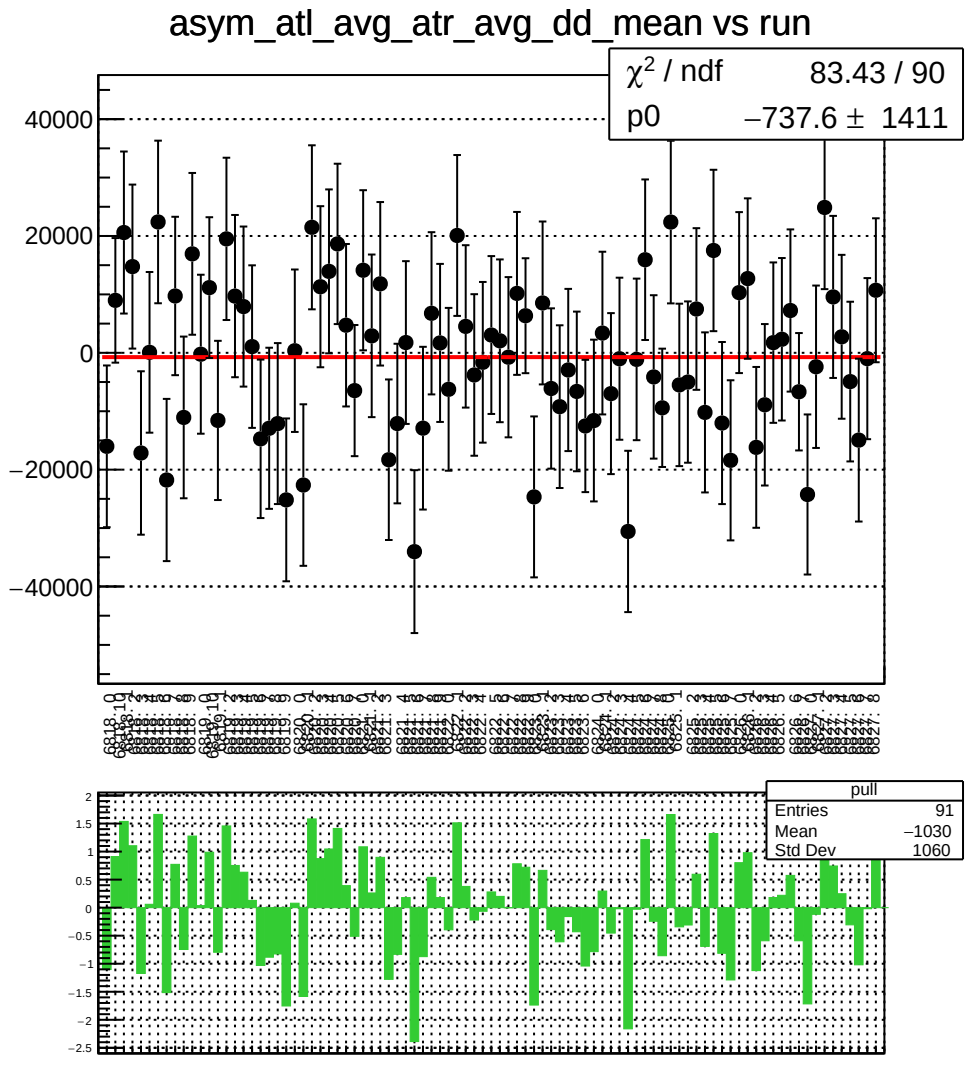

pull1D
Entries 91
Mean 0.001897
Std Dev 0.9575
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

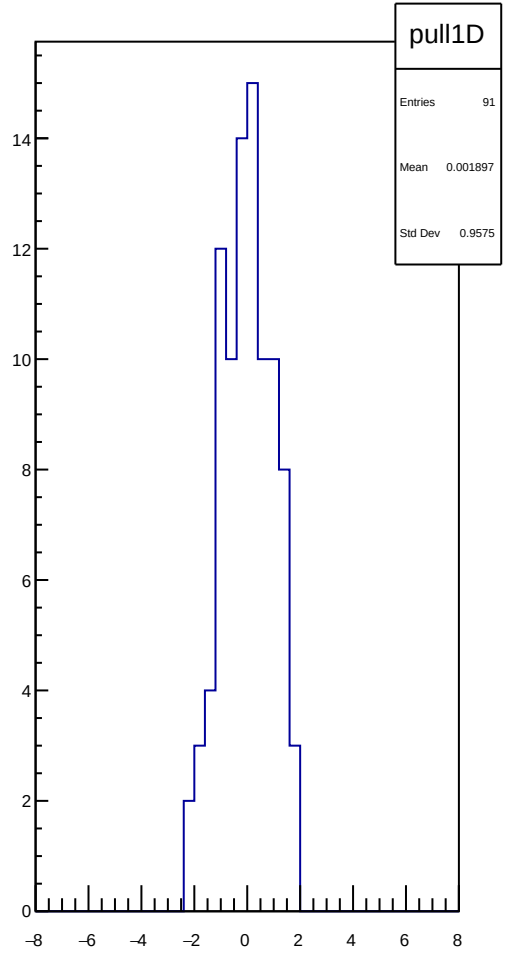

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 124.6 / 90
p0 1312 ± 0.9978
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270

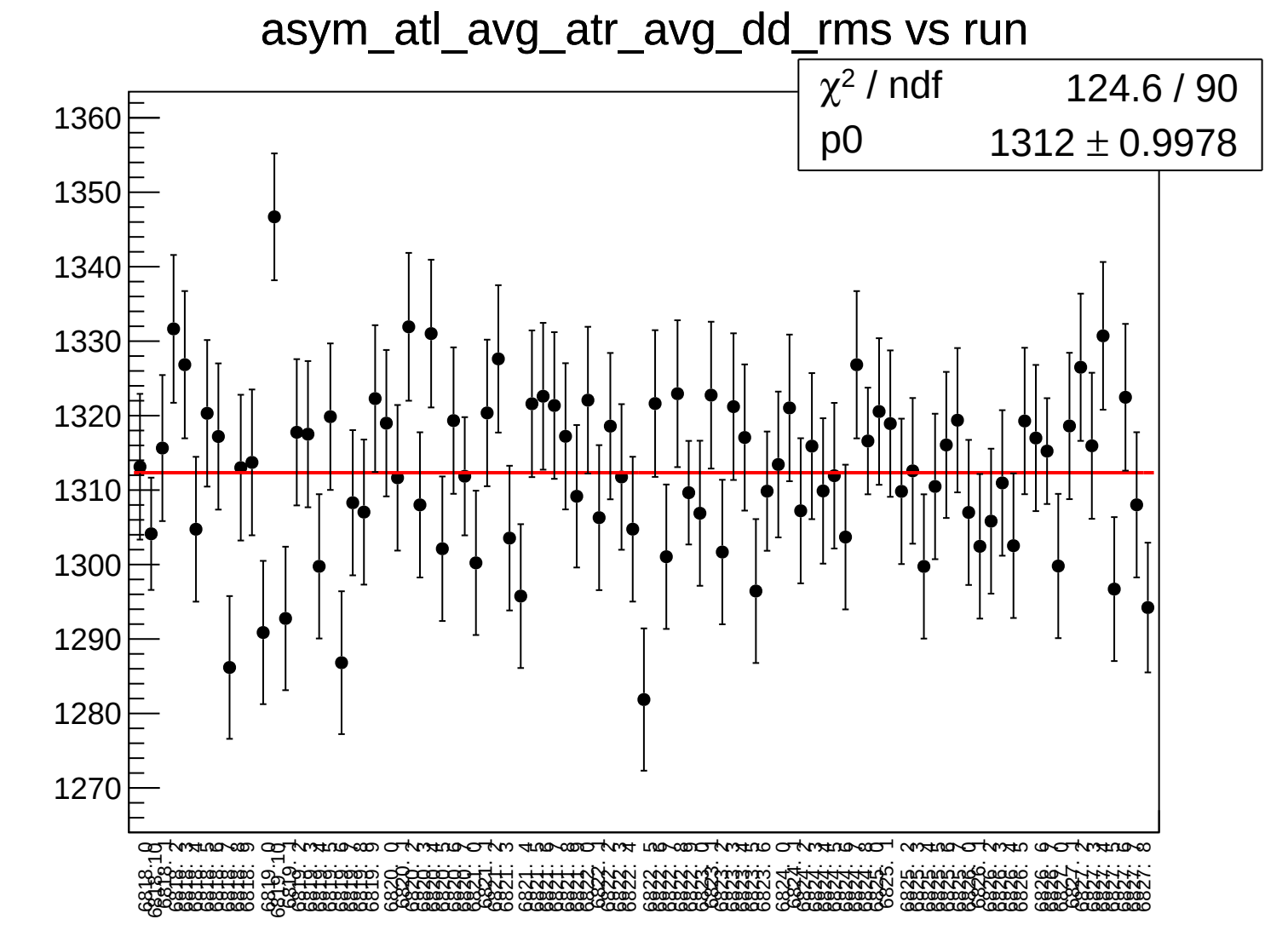

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 90
p0 0 ± 0.1048
1
0.8
0.6
0.4
0.2
0

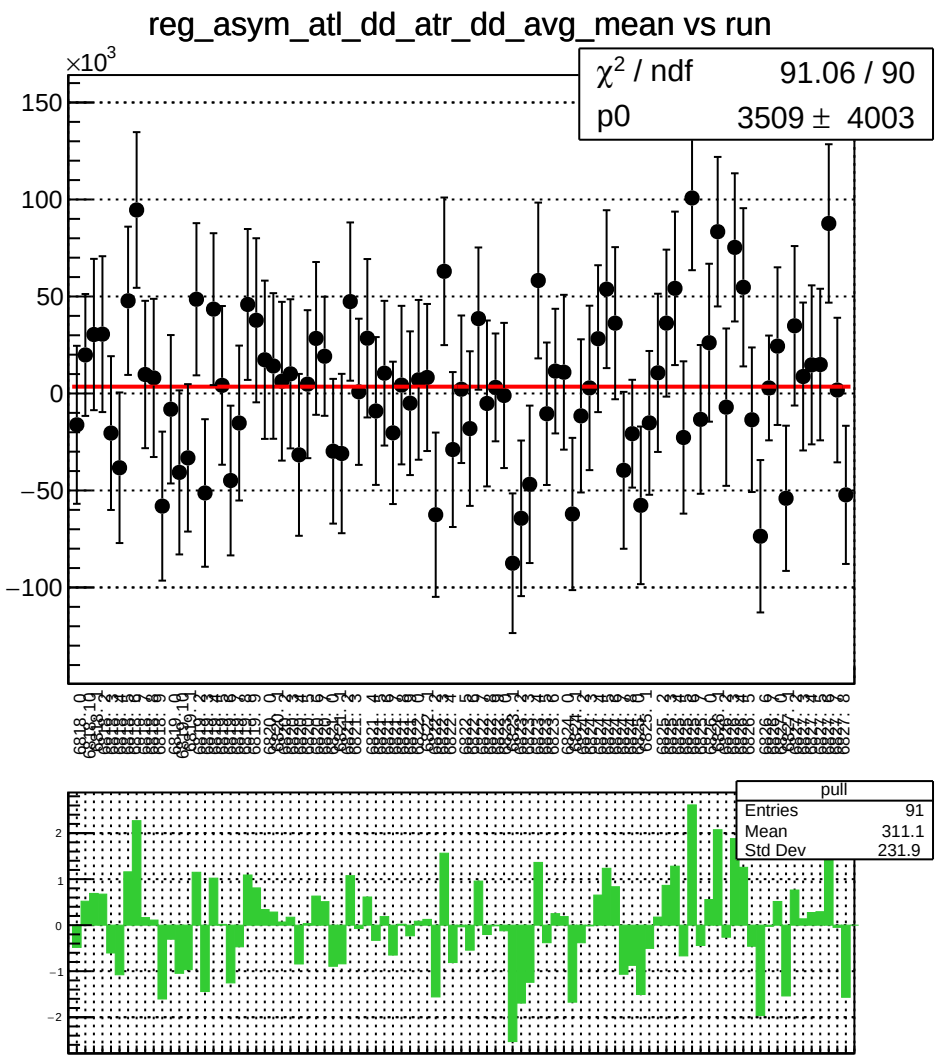

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

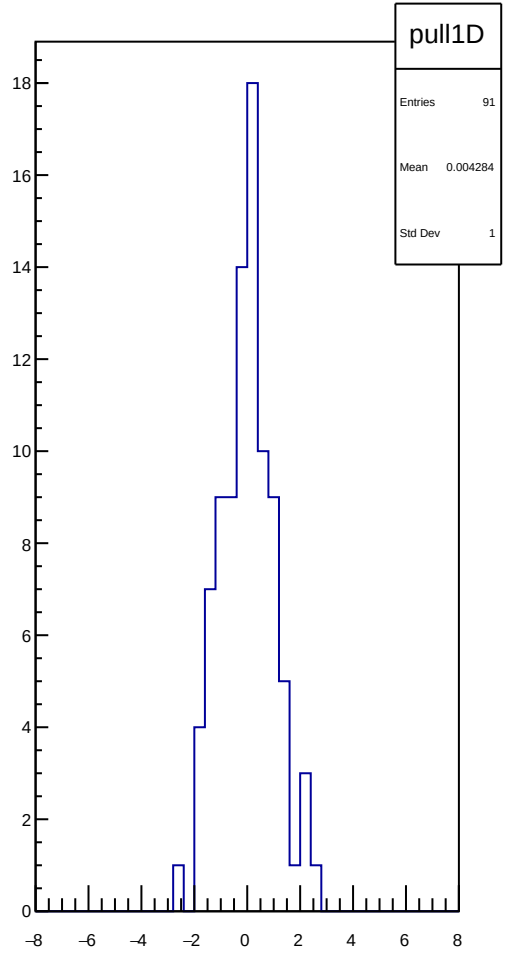

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 90
p0 0 ± 0.1048
1
0.8
0.6
0.4
0.2
0

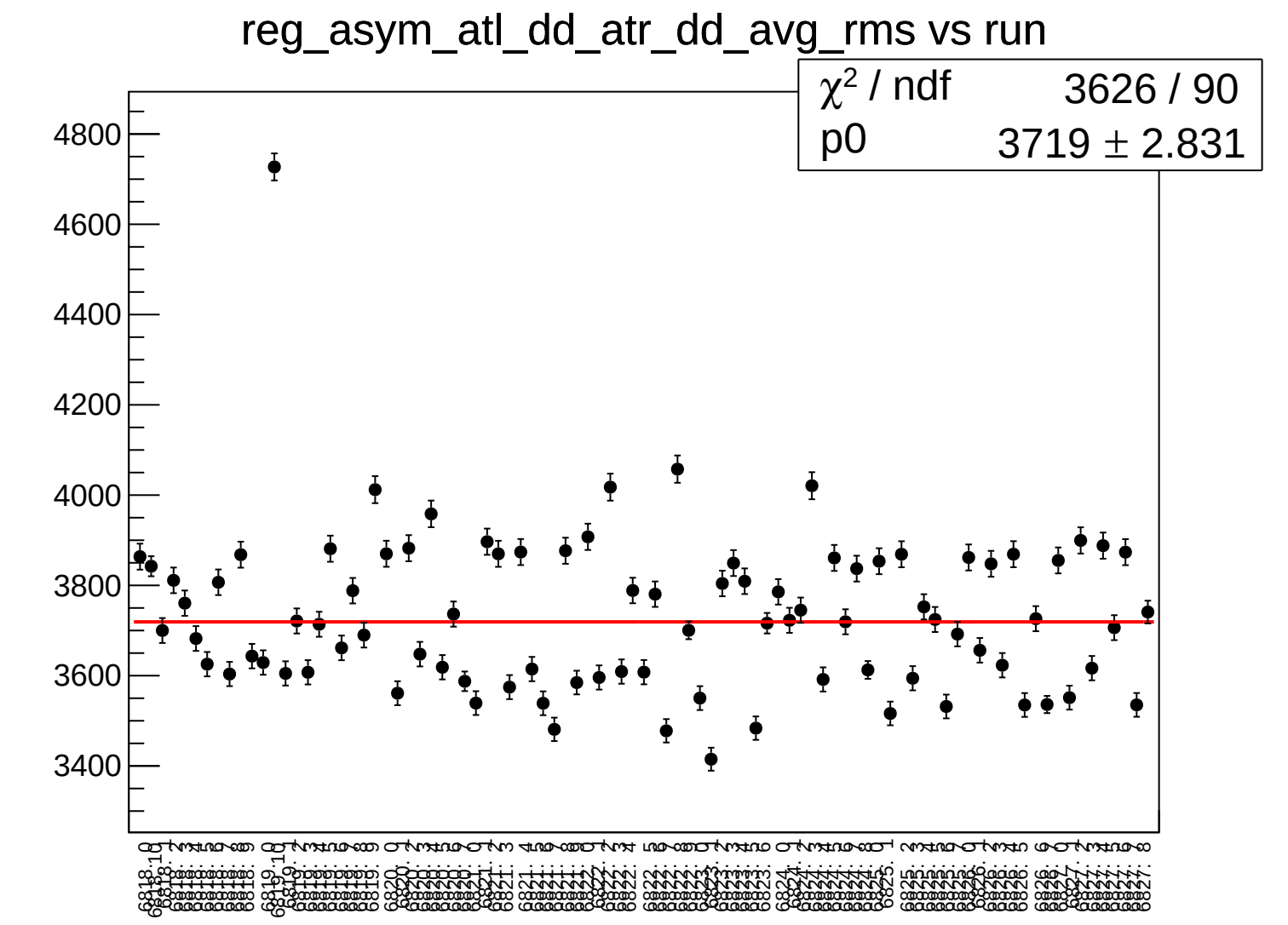

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.43 / 90
p0 −737.6 ± 1411
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −1030
Std Dev 1060
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

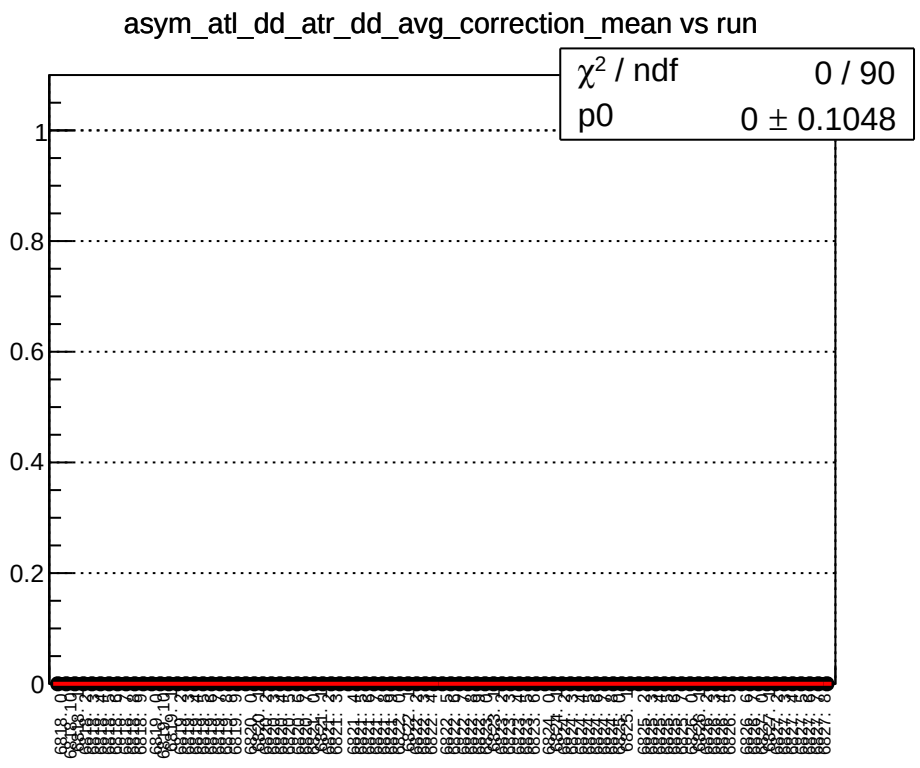

pull1D
Entries 91
Mean 0.001897
Std Dev 0.9575
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

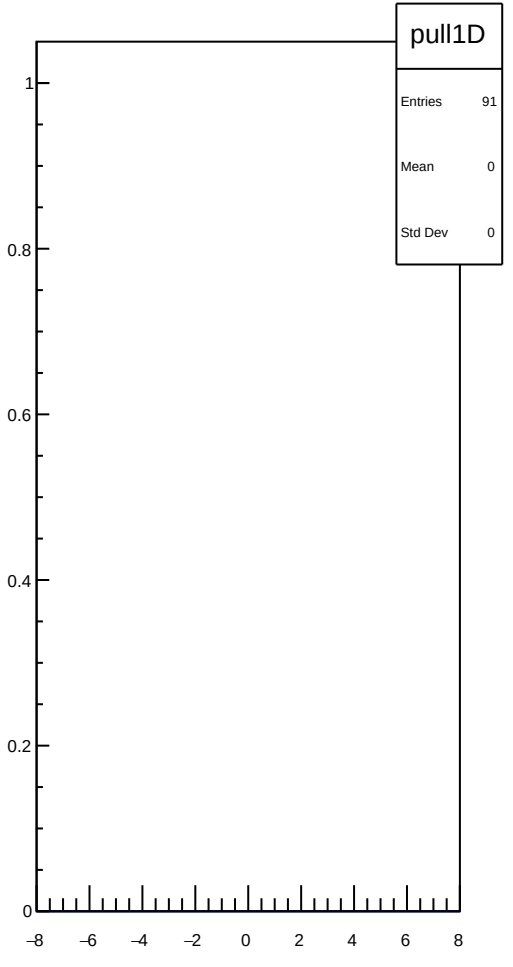

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 124.6 / 90
p0 1312 ± 0.9978
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270

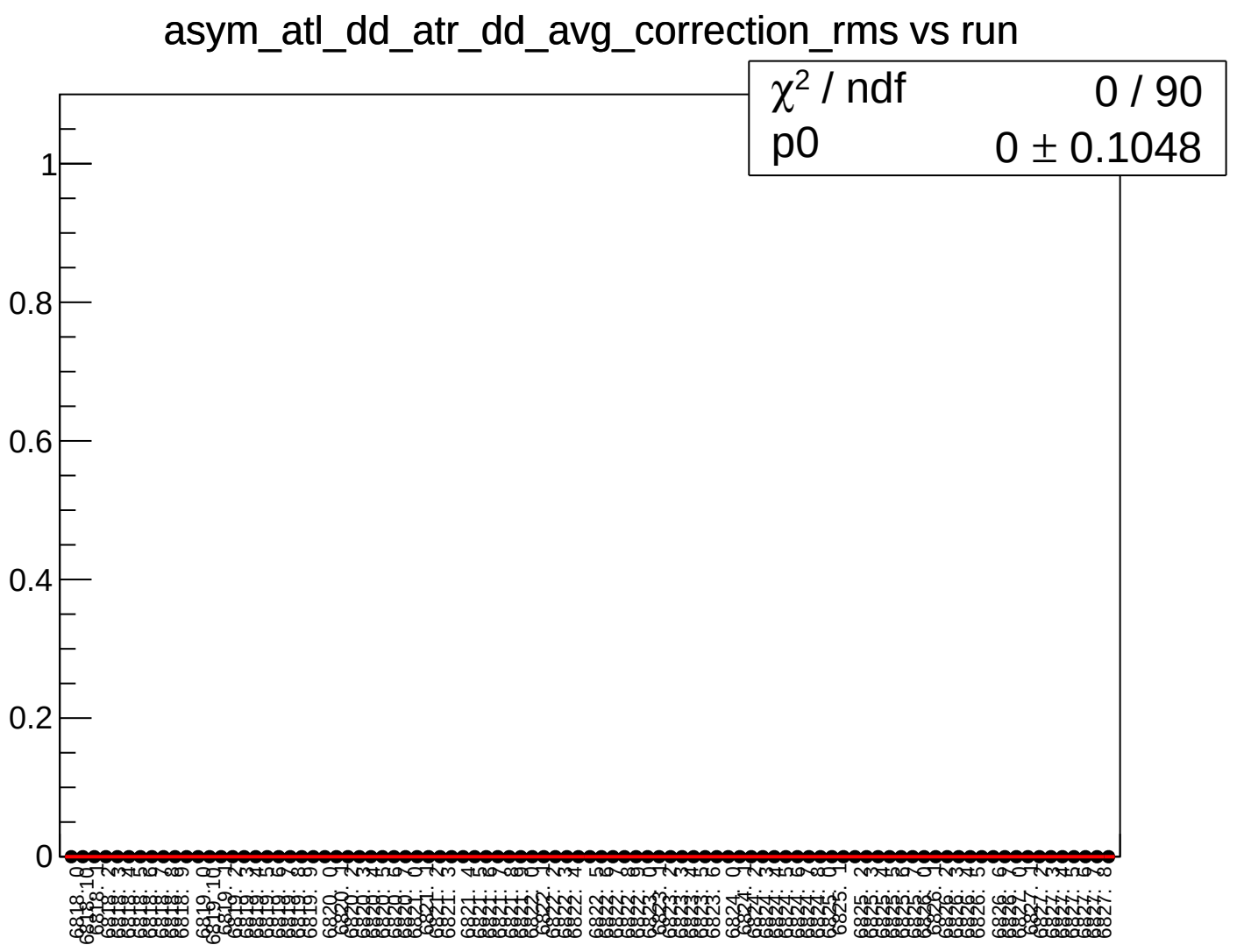

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 91.06 / 90
p0 3509 ± 4003
150
100
50
0
−50
−100
pull
Entries 91
Mean 311.1
Std Dev 231.9
2
1
0
−1
−2

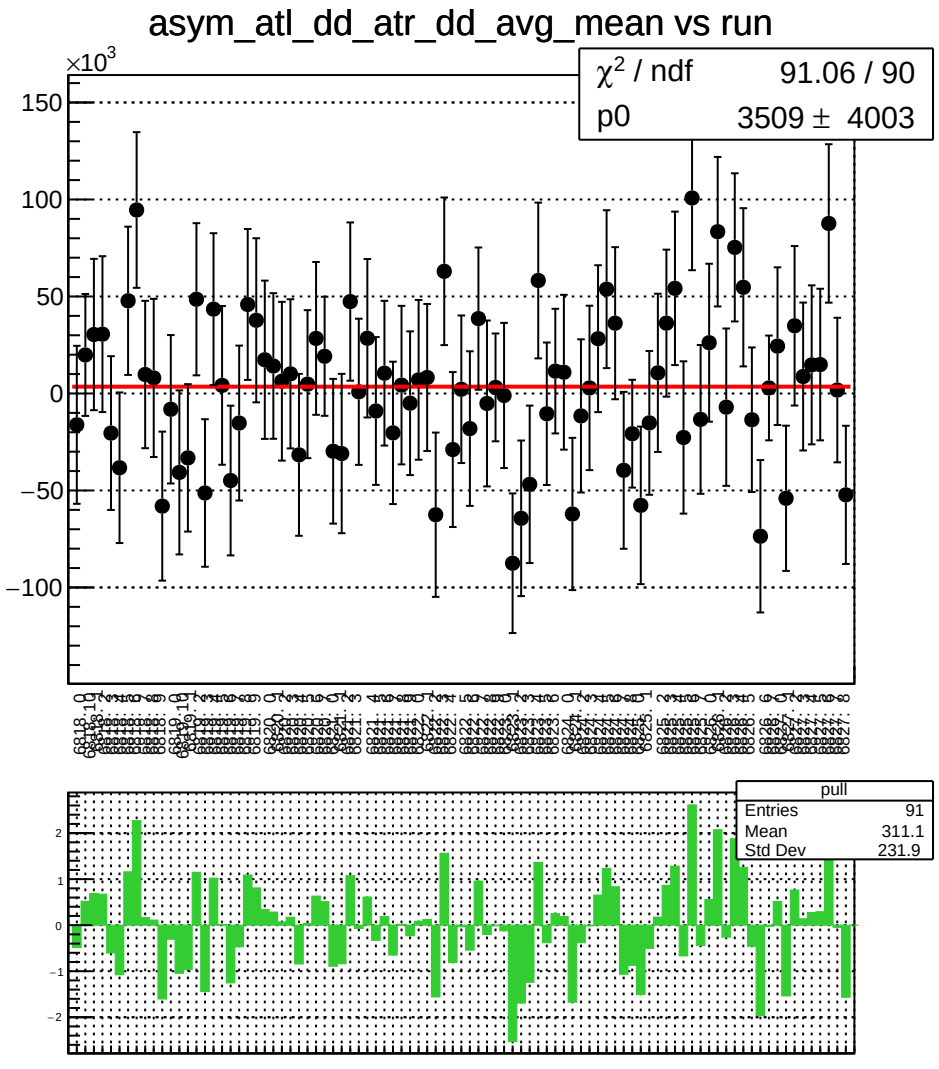

pull1D
Entries 91
Mean 0.004284
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

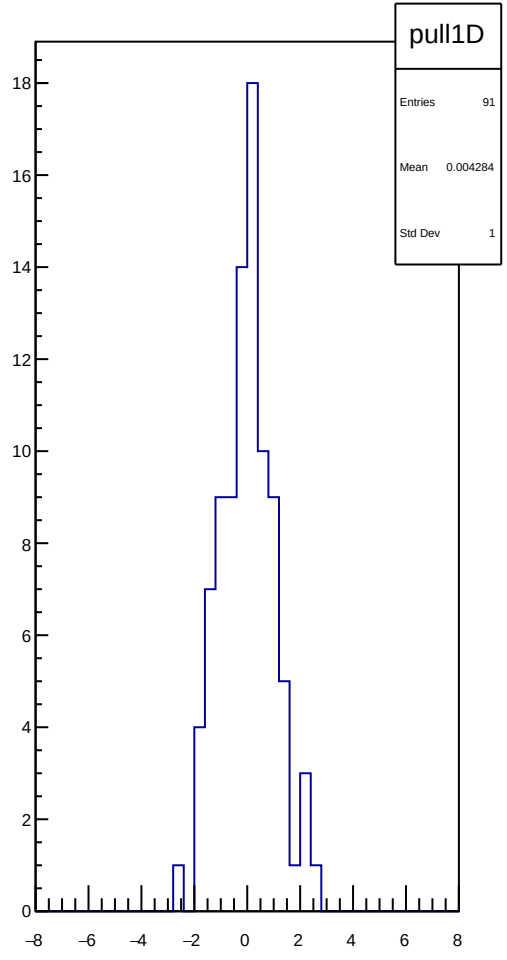

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3626 / 90
p0 3719 ± 2.831
4800
4600
4400
4200
4000
3800
3600
3400

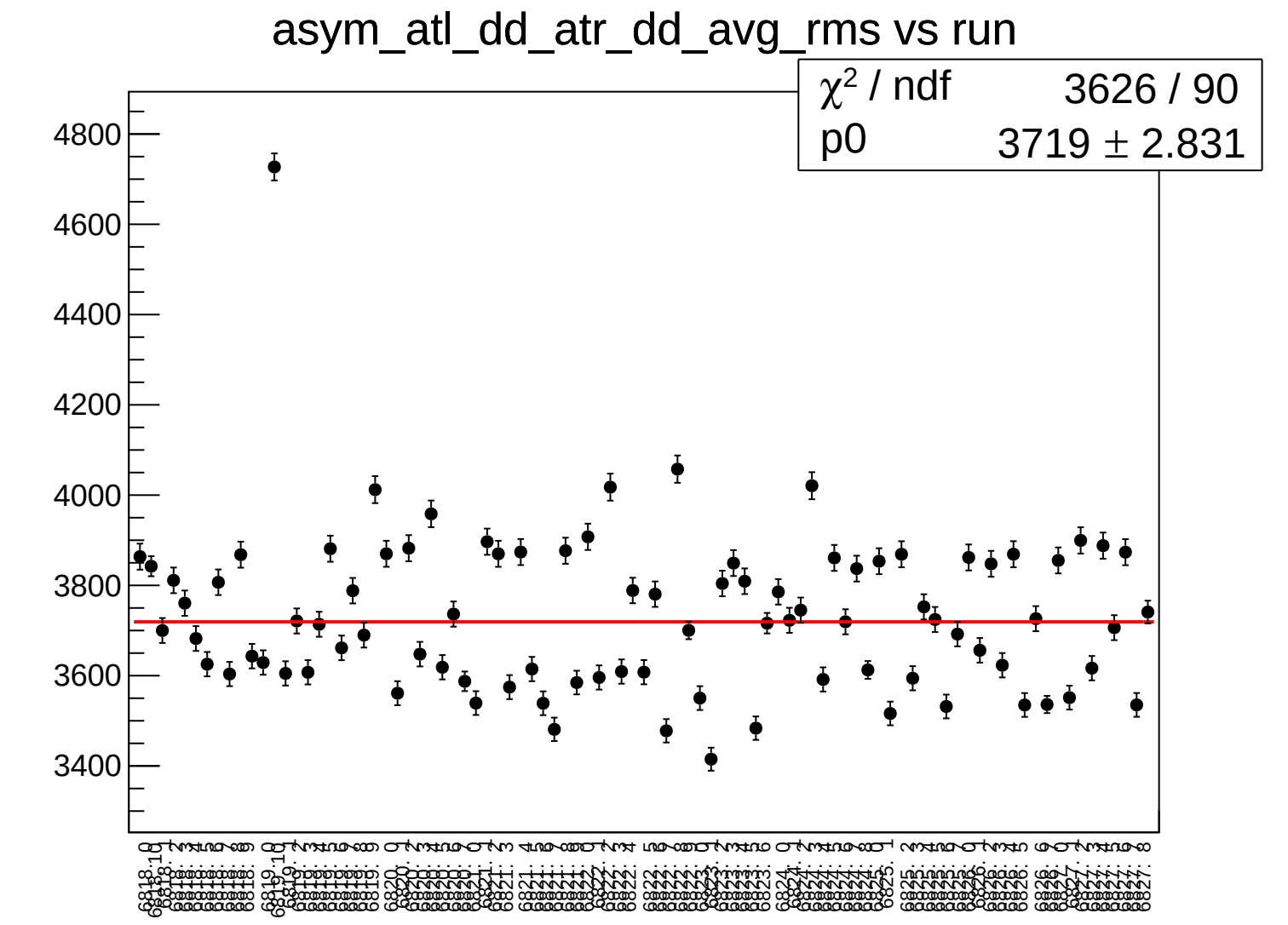

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 90
p0 0 ± 0.1048
1
0.8
0.6
0.4
0.2
0

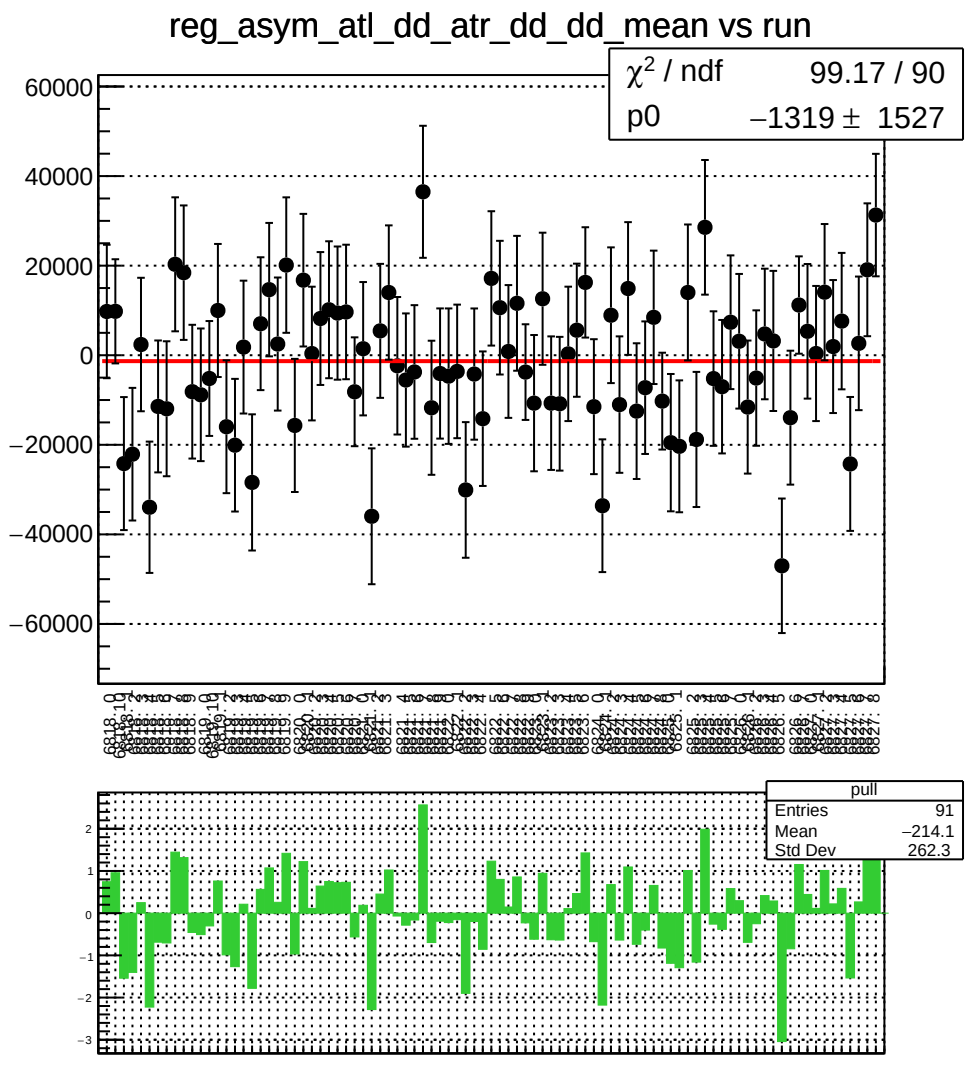

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

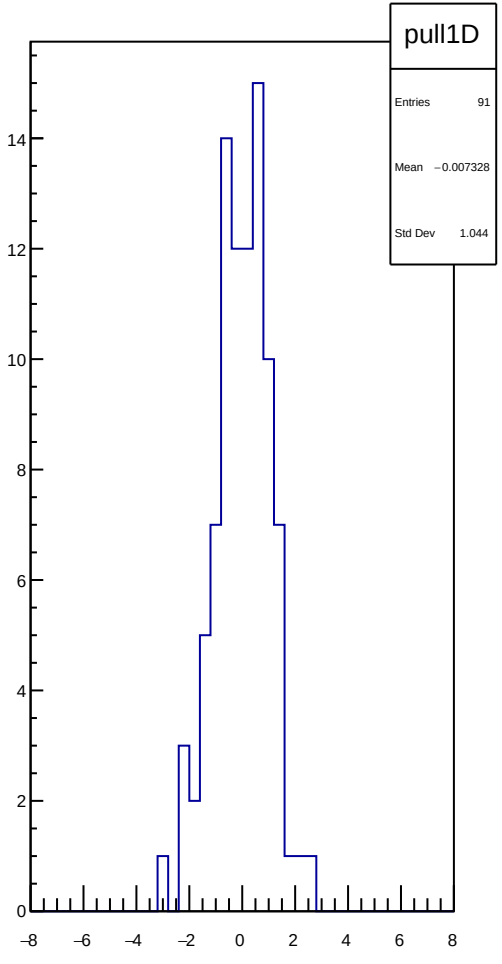

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 90
p0 0 ± 0.1048
1
0.8
0.6
0.4
0.2
0

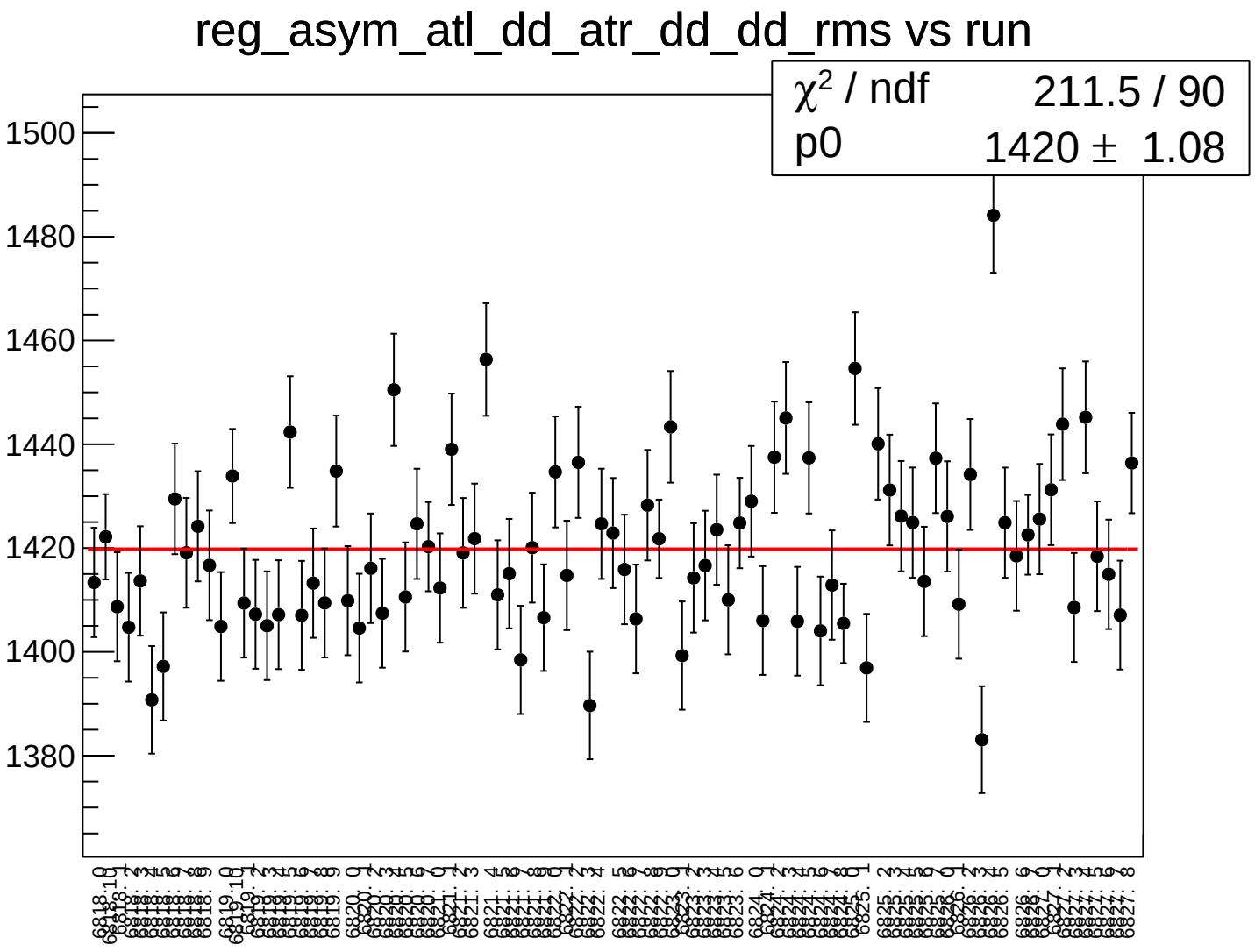

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 91.06 / 90
p0 3509 ± 4003
150
100
50
0
−50
−100
pull
Entries 91
Mean 311.1
Std Dev 231.9
2
1
0
−1
−2

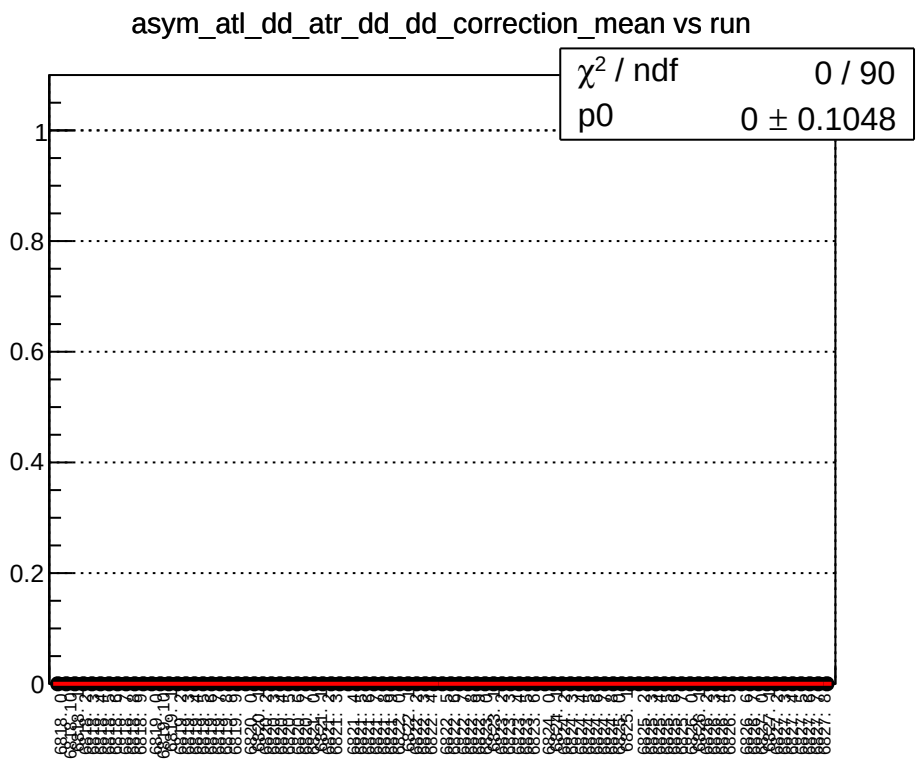

pull1D
Entries 91
Mean 0.004284
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

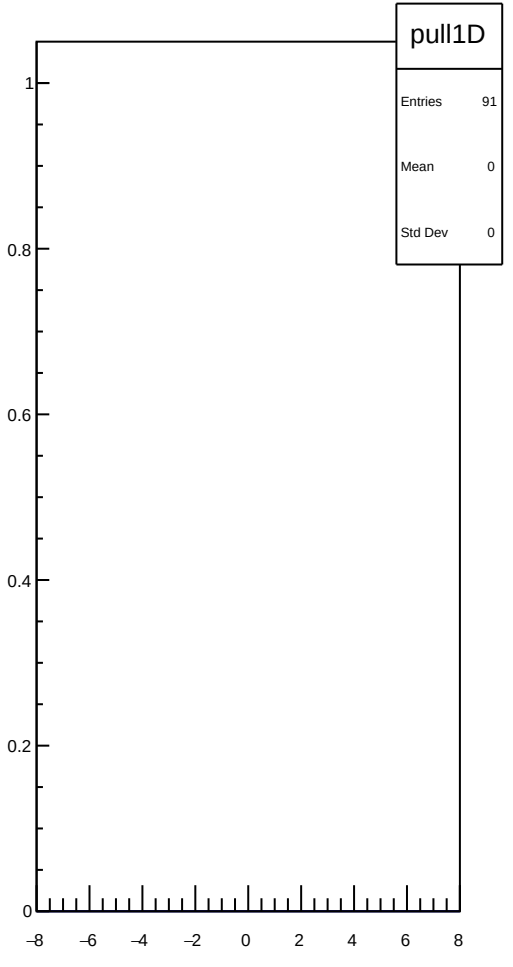

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3626 / 90
p0 3719 ± 2.831
4800
4600
4400
4200
4000
3800
3600
3400

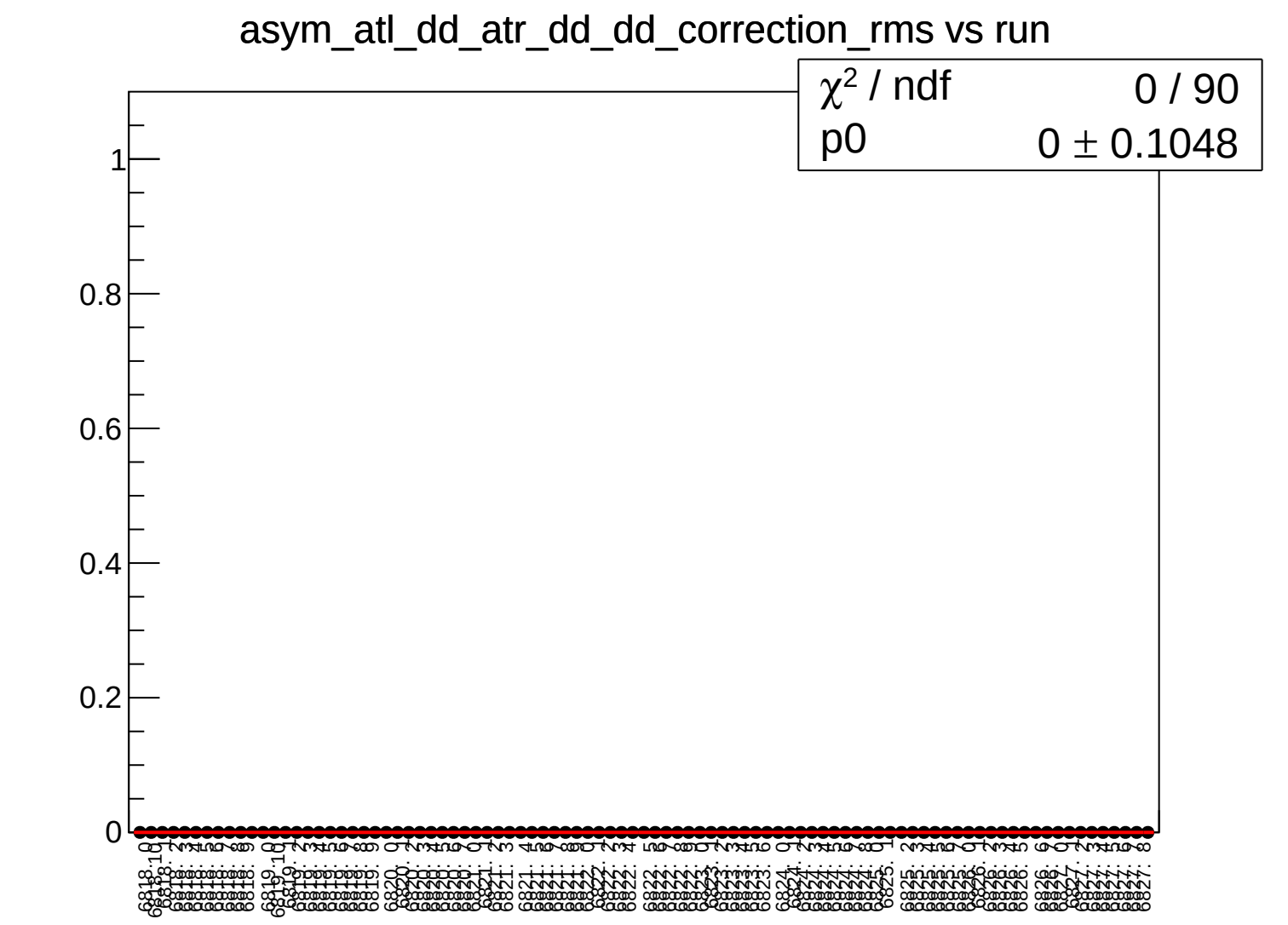

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 99.17 / 90
p0 −1319 ± 1527
pull
Entries 91
Mean −214.1
Std Dev 262.3

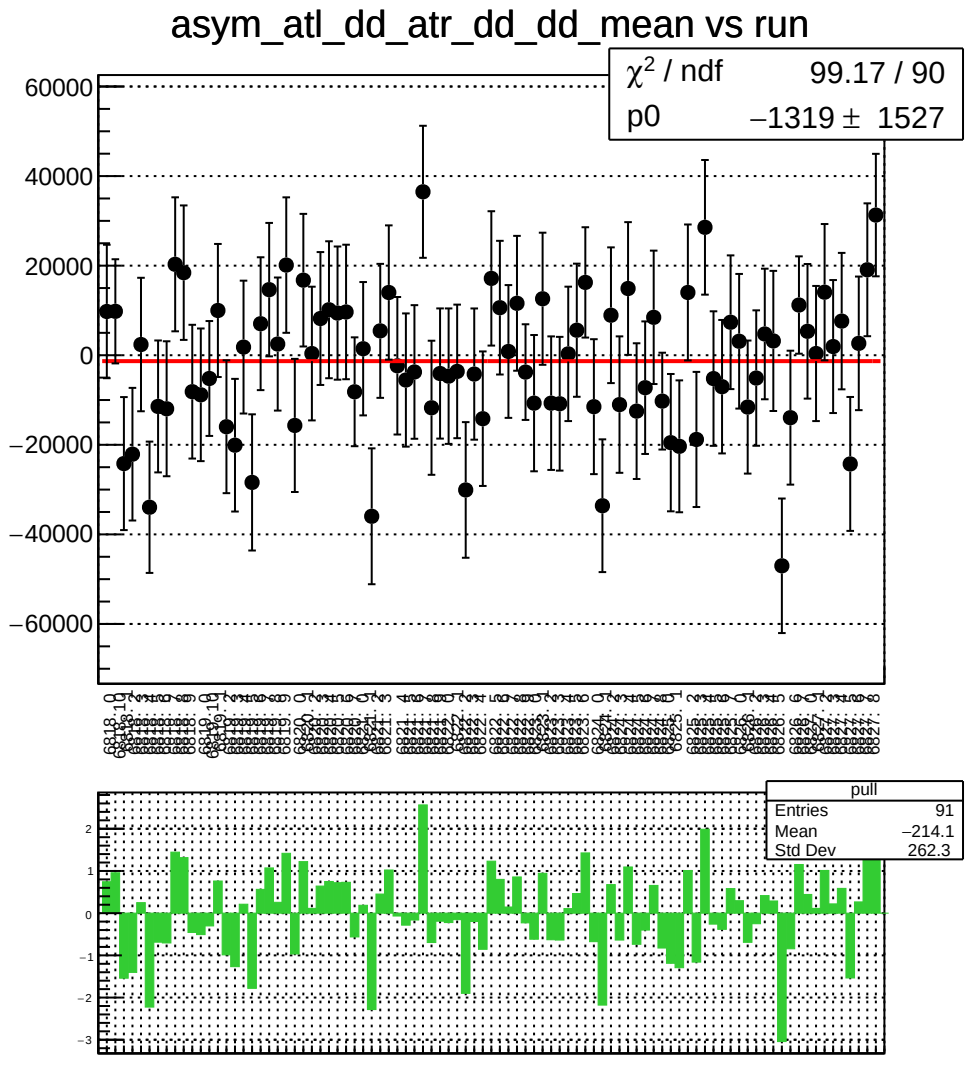

pull1D
Entries 91
Mean −0.007328
Std Dev 1.044

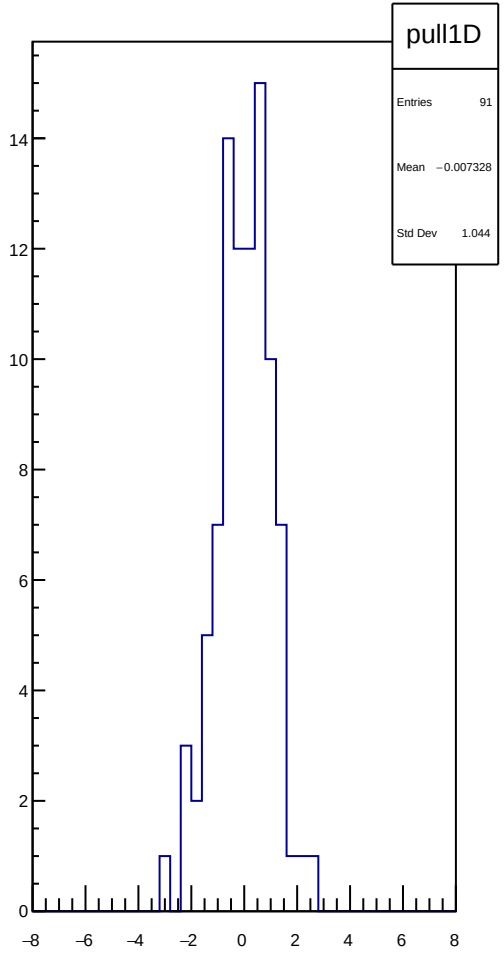

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 211.5 / 90
p0 1420 ± 1.08
1500
1480
1460
1440
1420
1400
1380

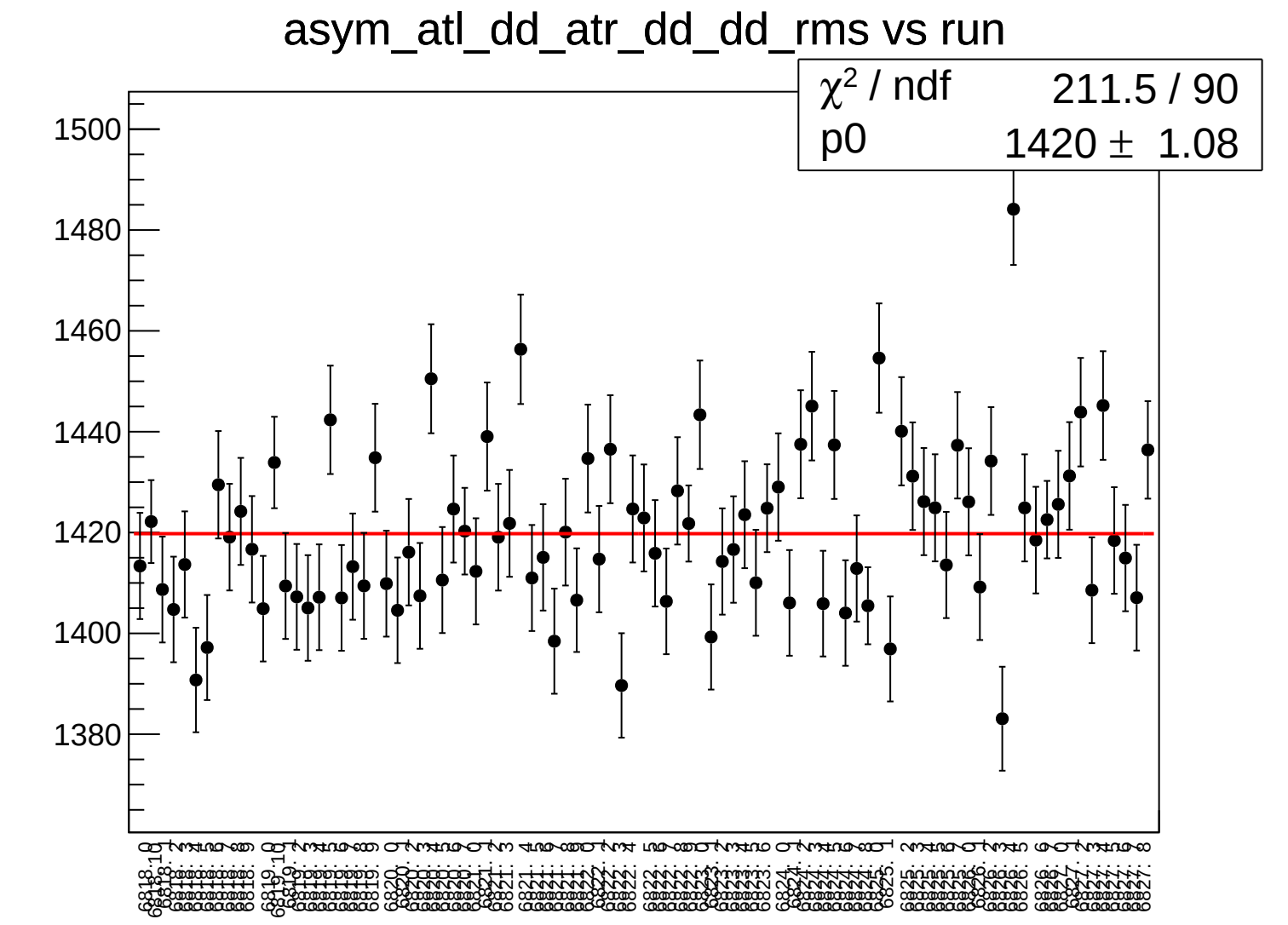

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 90
p0 0 ± 0.1048
1
0.8
0.6
0.4
0.2
0

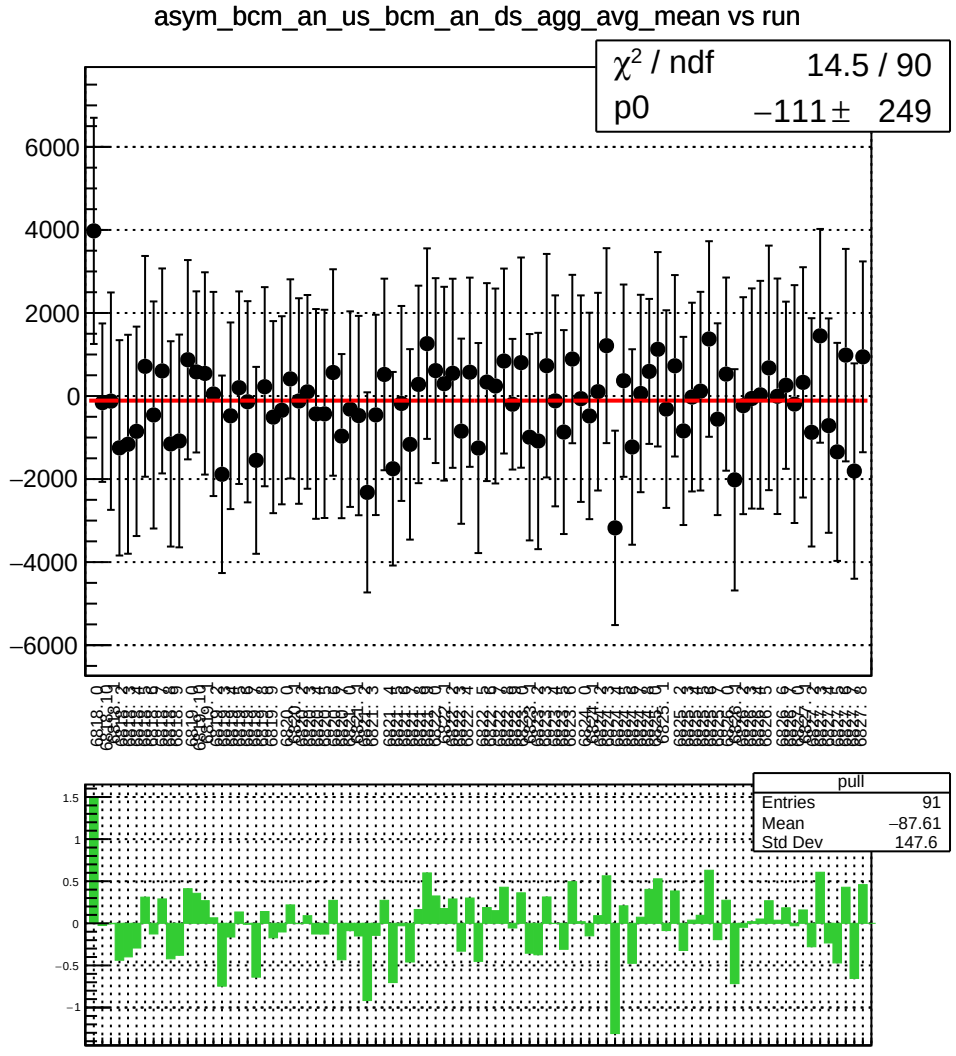

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

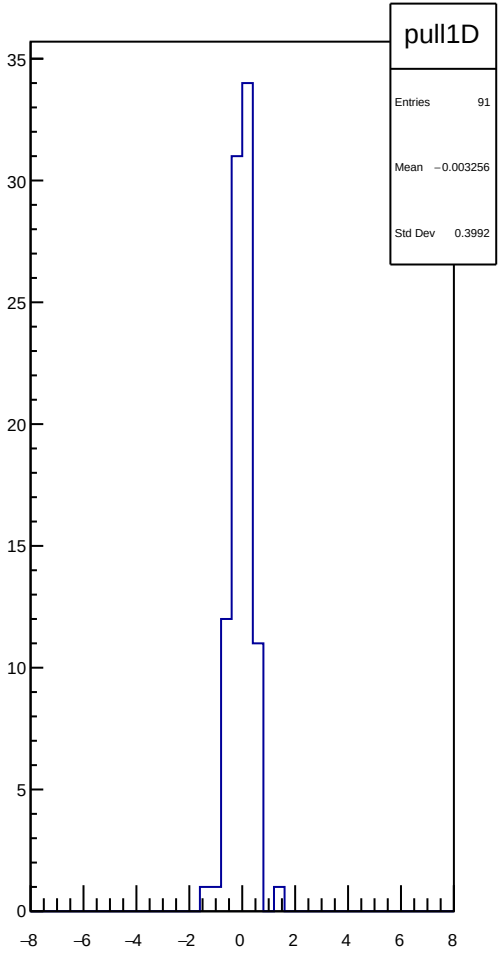

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 90
p0 0 ± 0.1048
1
0.8
0.6
0.4
0.2
0

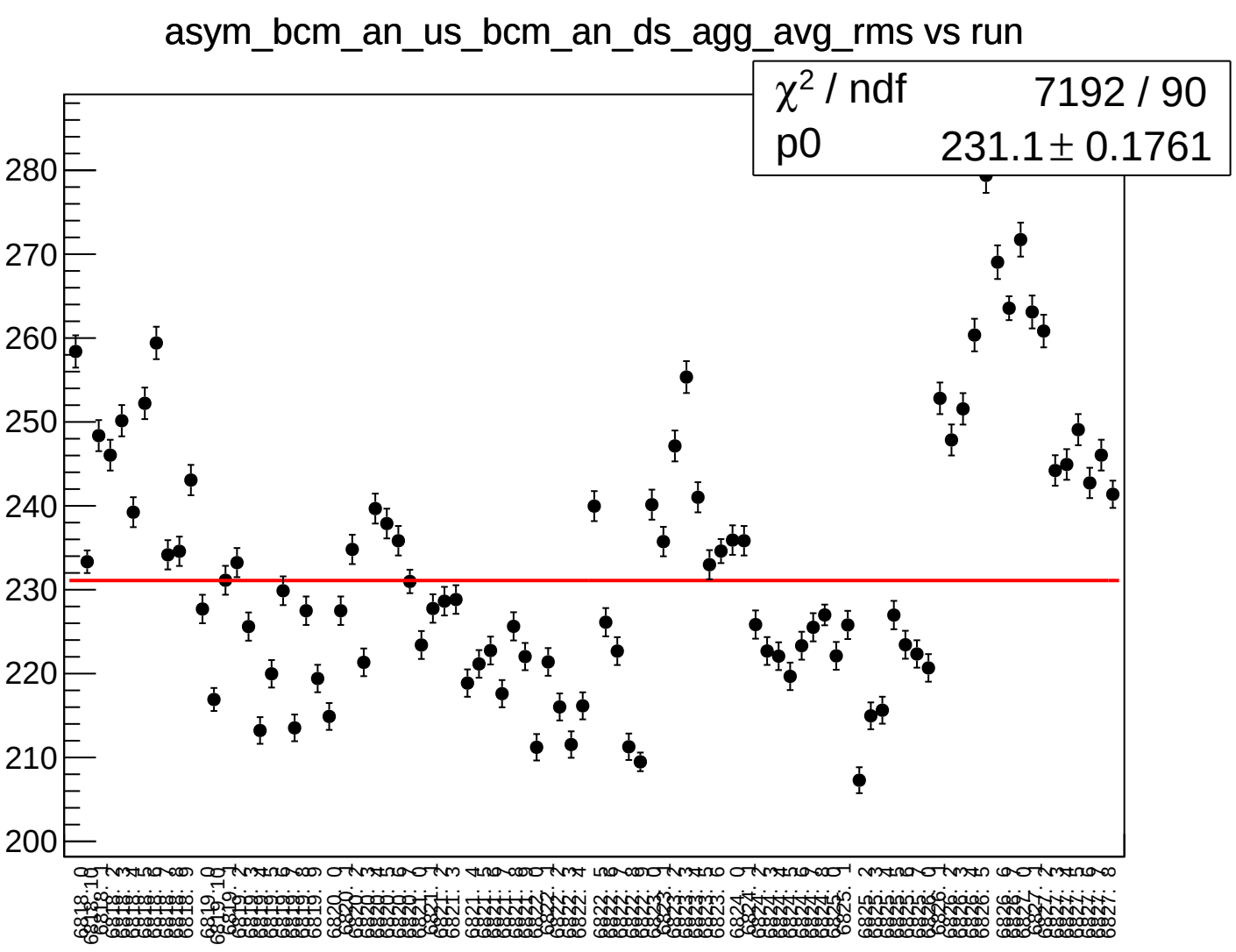

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 99.17 / 90
p0 −1319 ± 1527
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −214.1
Std Dev 262.3
2
1
0
−1
−2
−3

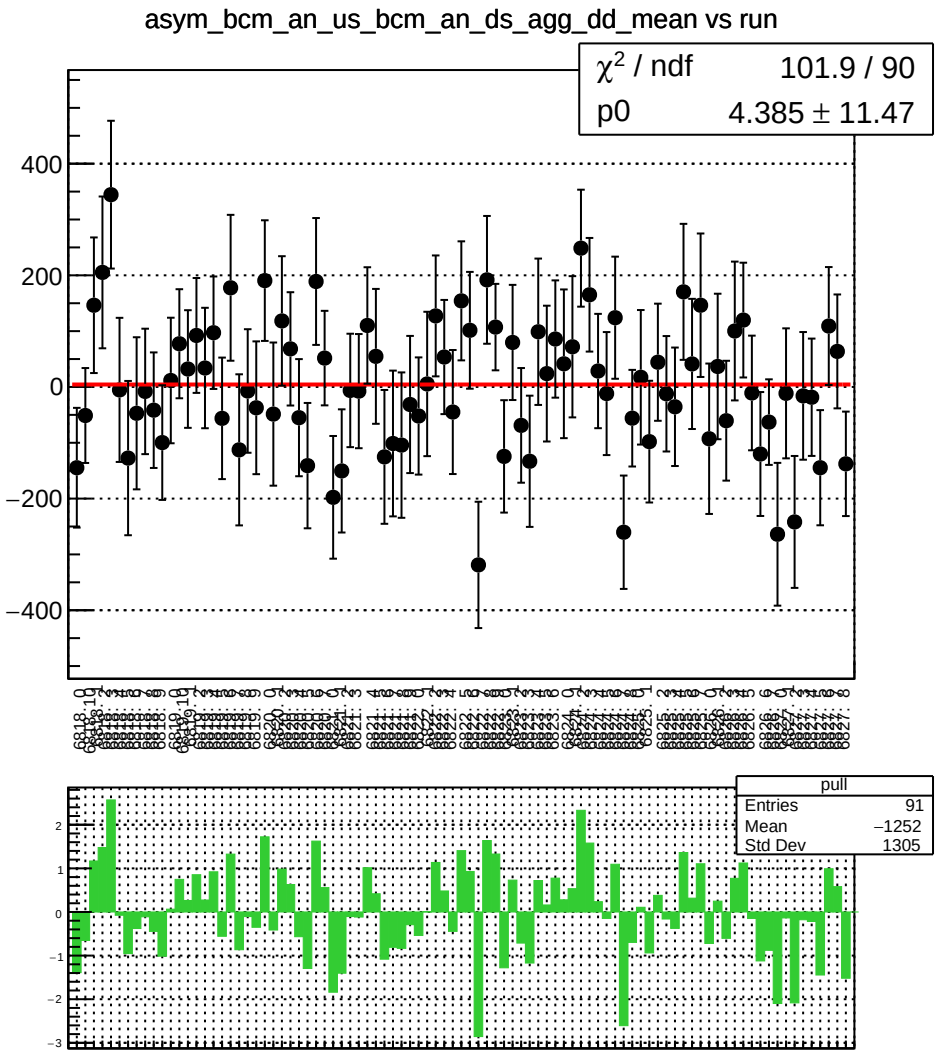

pull1D
Entries 91
Mean −0.007328
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

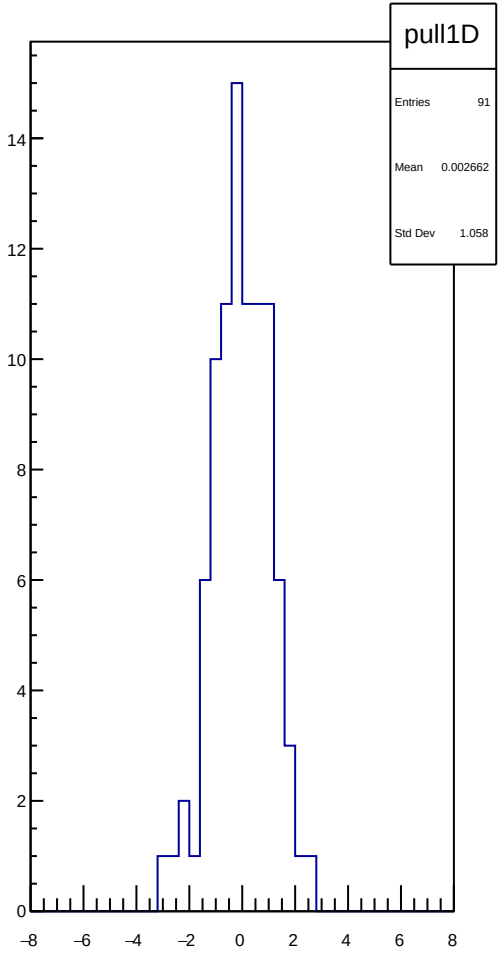

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 211.5 / 90
p0 1420 ± 1.08
1500
1480
1460
1440
1420
1400
1380

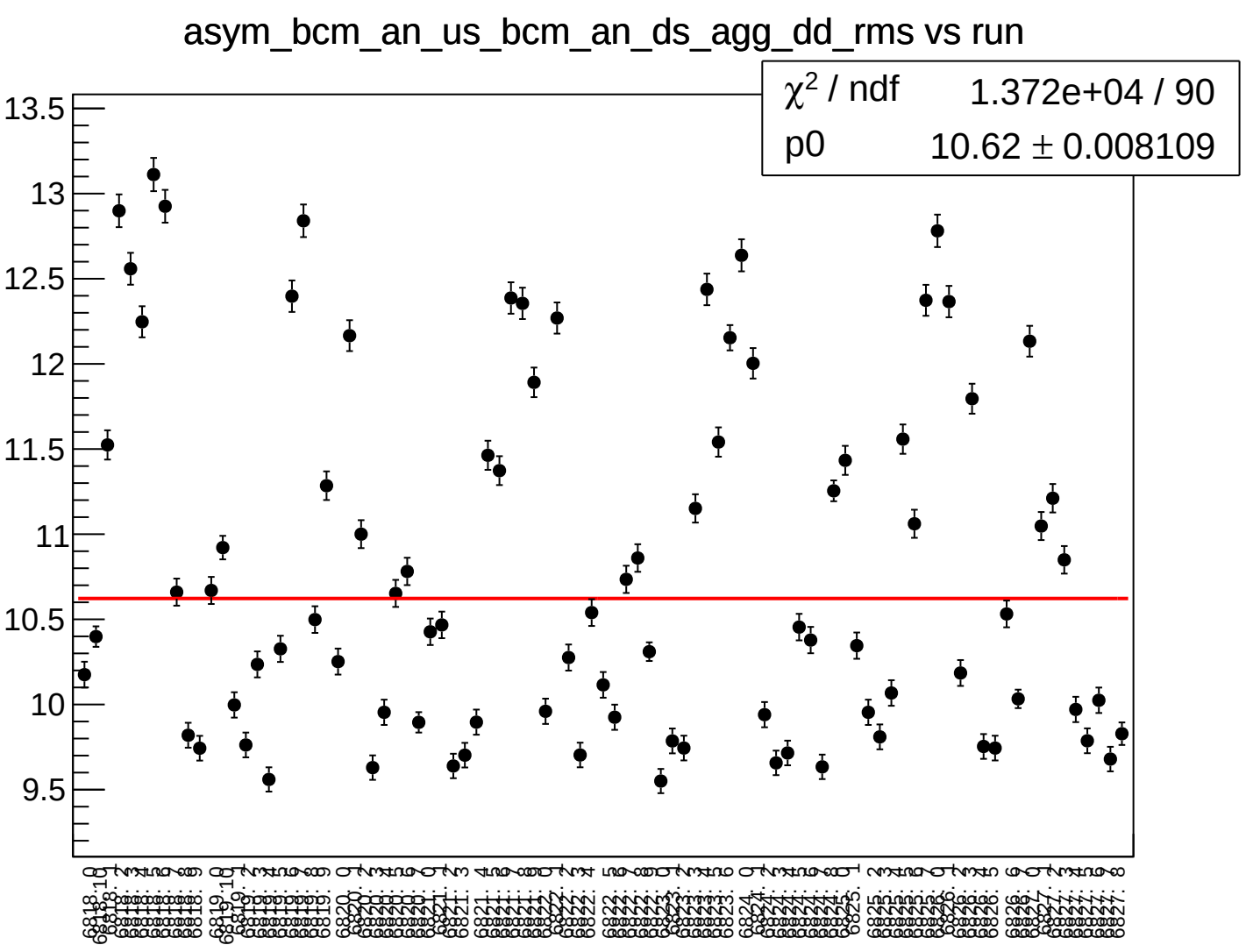

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.5 / 90
p0 −111 ± 249
pull
Entries 91
Mean −87.61
Std Dev 147.6

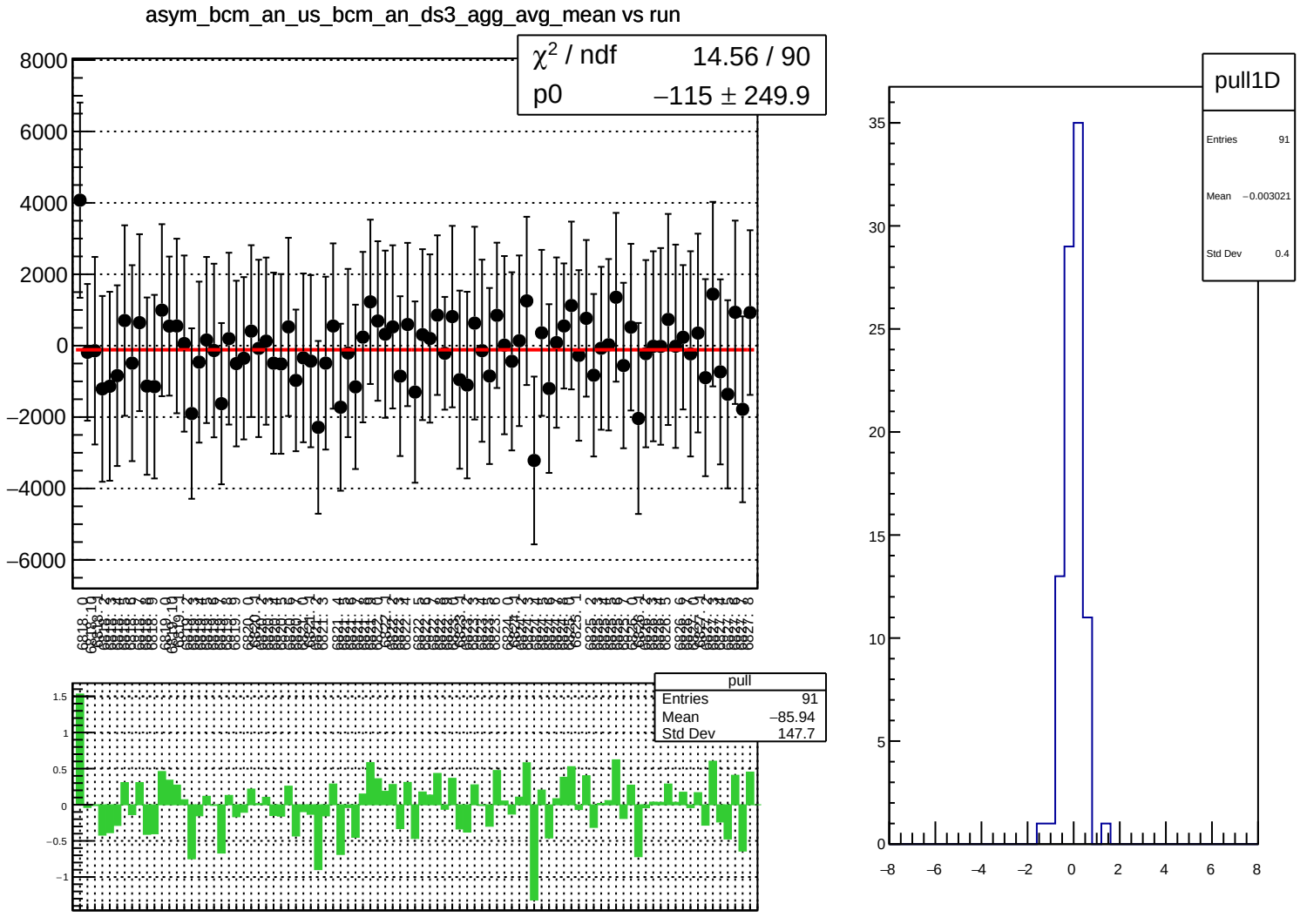

pull1D
Entries 91
Mean −0.003256
Std Dev 0.3992

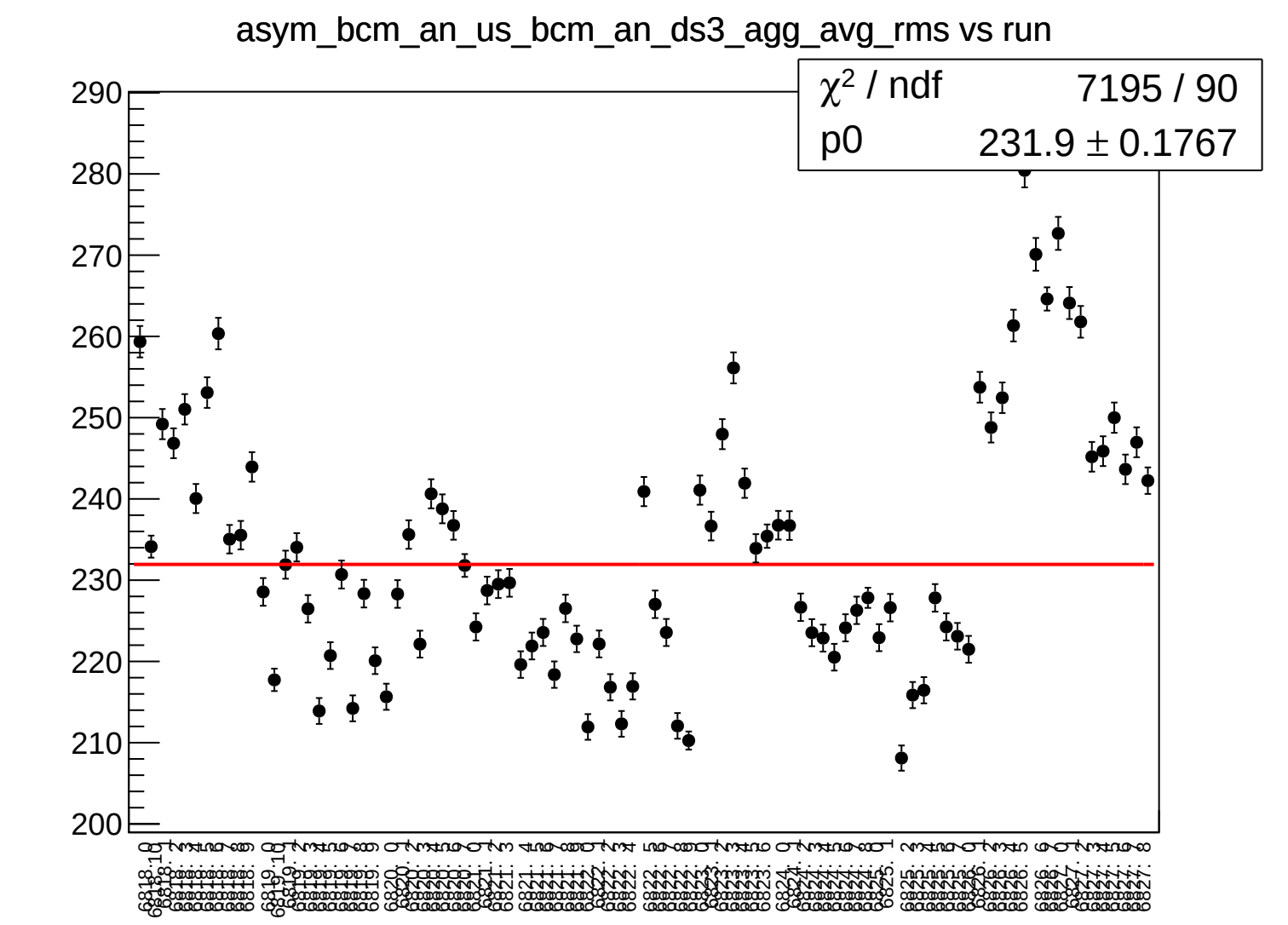

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7192 / 90
p0 231.1 ± 0.1761
280
270
260
250
240
230
220
210
200

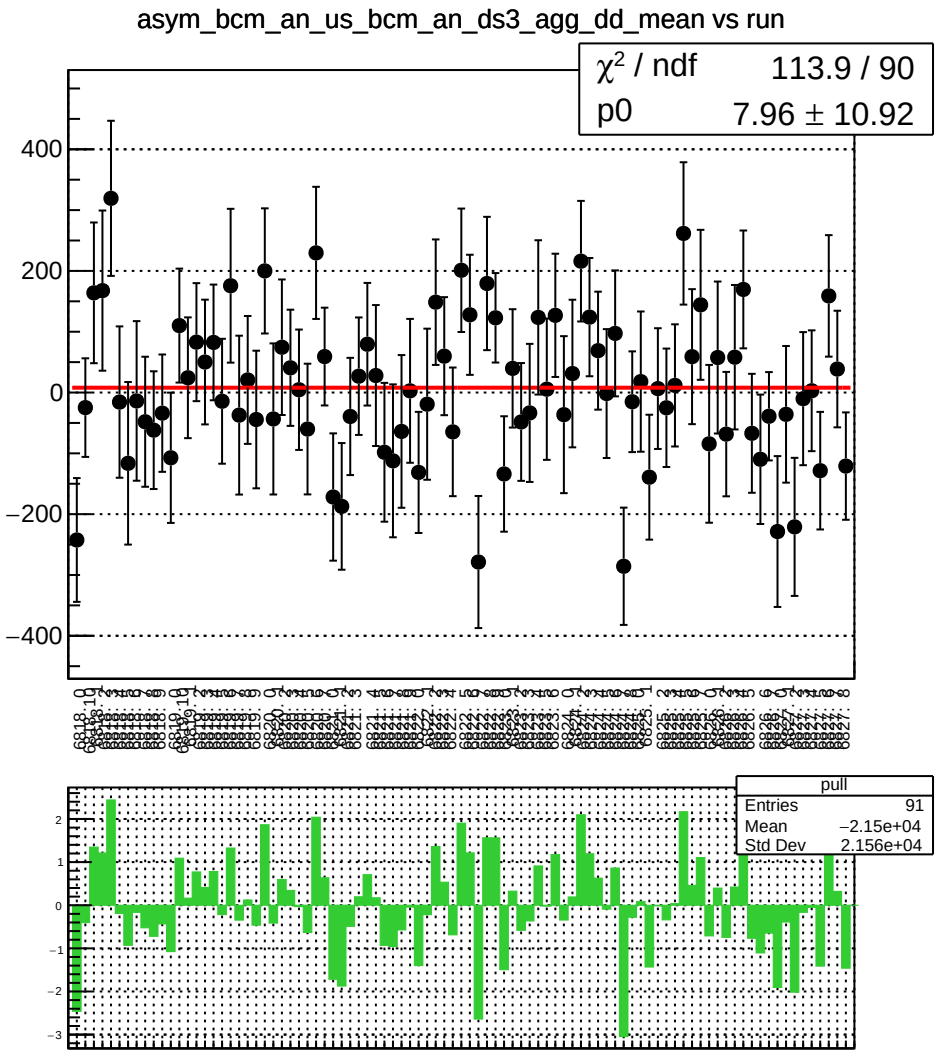

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 101.9 / 90
p0 4.385 ± 11.47
400
200
0
−200
−400
pull
Entries 91
Mean −1252
Std Dev 1305
2
1
0
−1
−2
−3

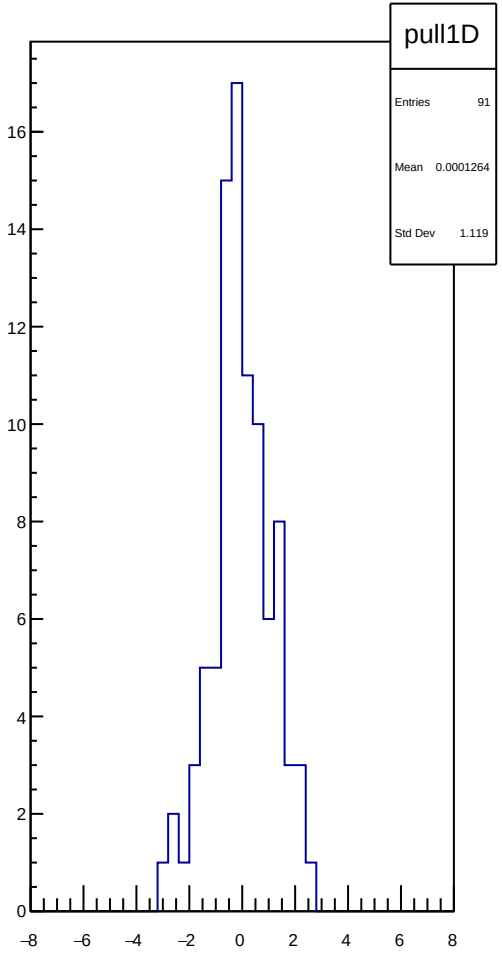

pull1D
Entries 91
Mean 0.002662
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

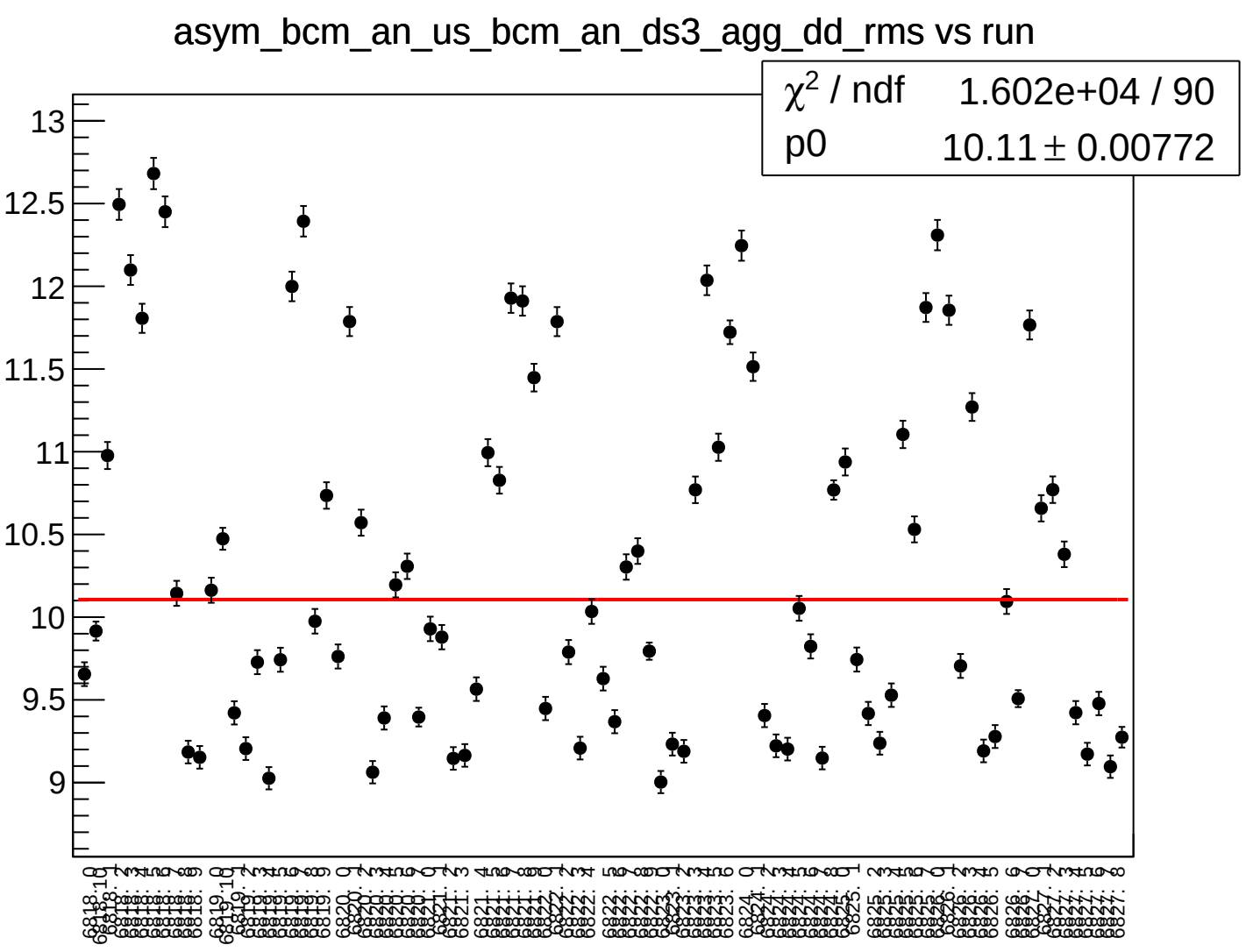

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.372e+04 / 90
p0 10.62 ± 0.008109
13.5
13
12.5
12
11.5
11
10.5
10
9.5

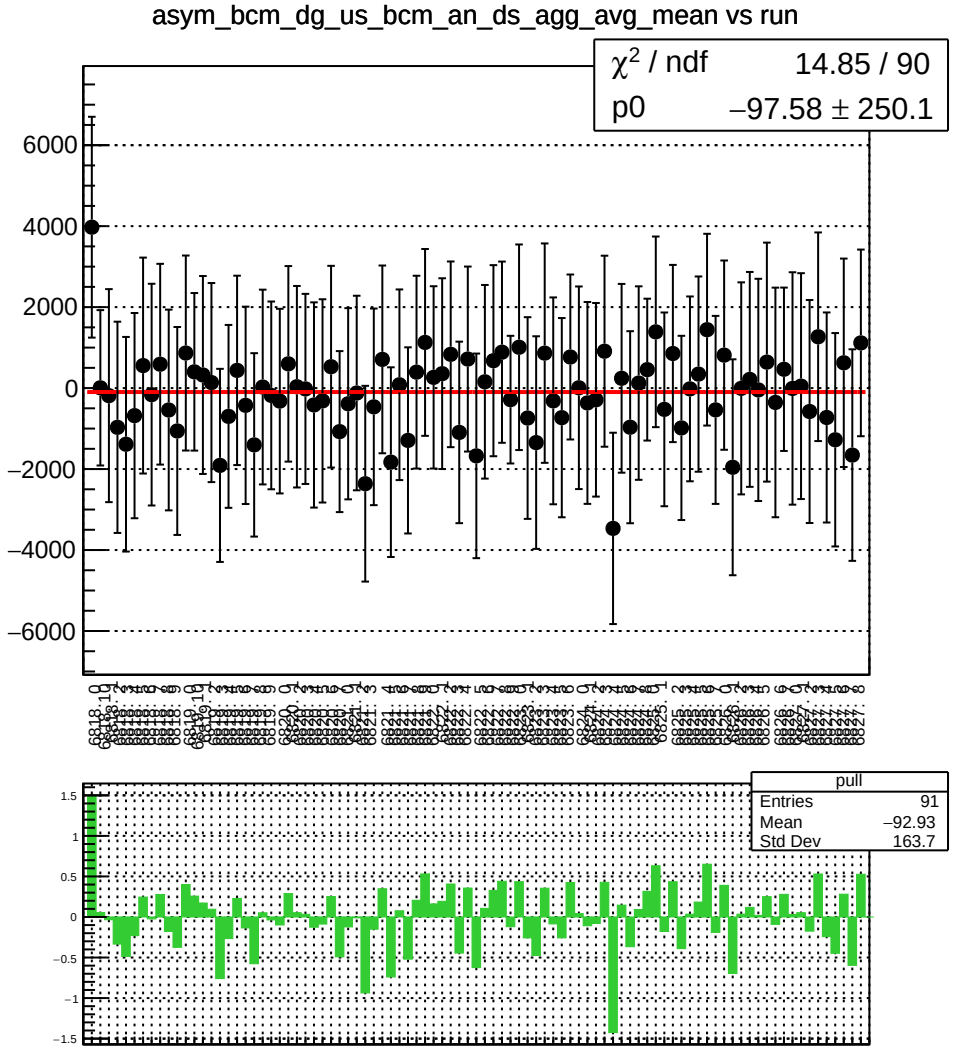

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.56 / 90
p0 −115 ± 249.9
pull
Entries 91
Mean −85.94
Std Dev 147.7
pull1D
Entries 91
Mean −0.003021
Std Dev 0.4

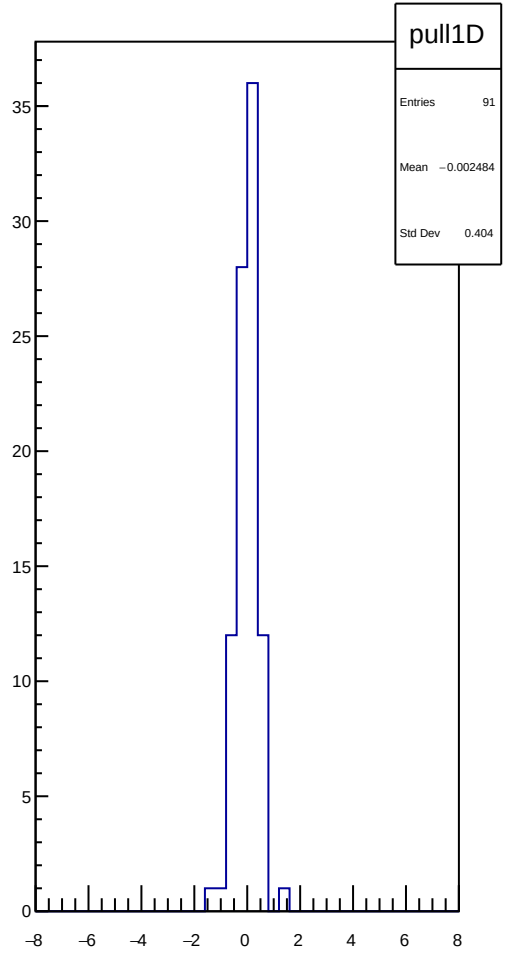

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 7195 / 90
p0 231.9 ± 0.1767
290
280
270
260
250
240
230
220
210
200

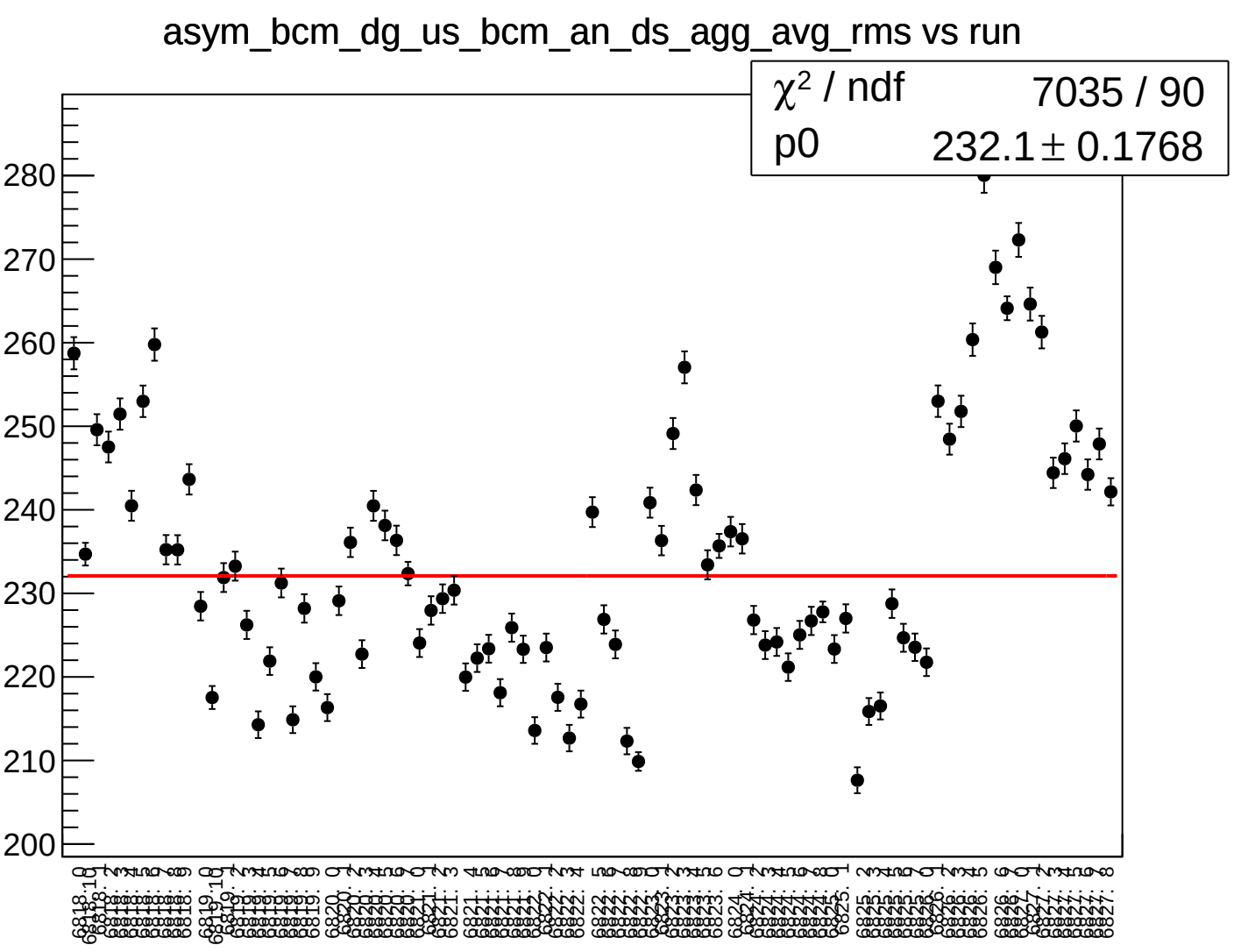

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 113.9 / 90
p0 7.96 ± 10.92
400
200
0
−200
−400
pull
Entries 91
Mean −2.15e+04
Std Dev 2.156e+04
2
1
0
−1
−2
−3

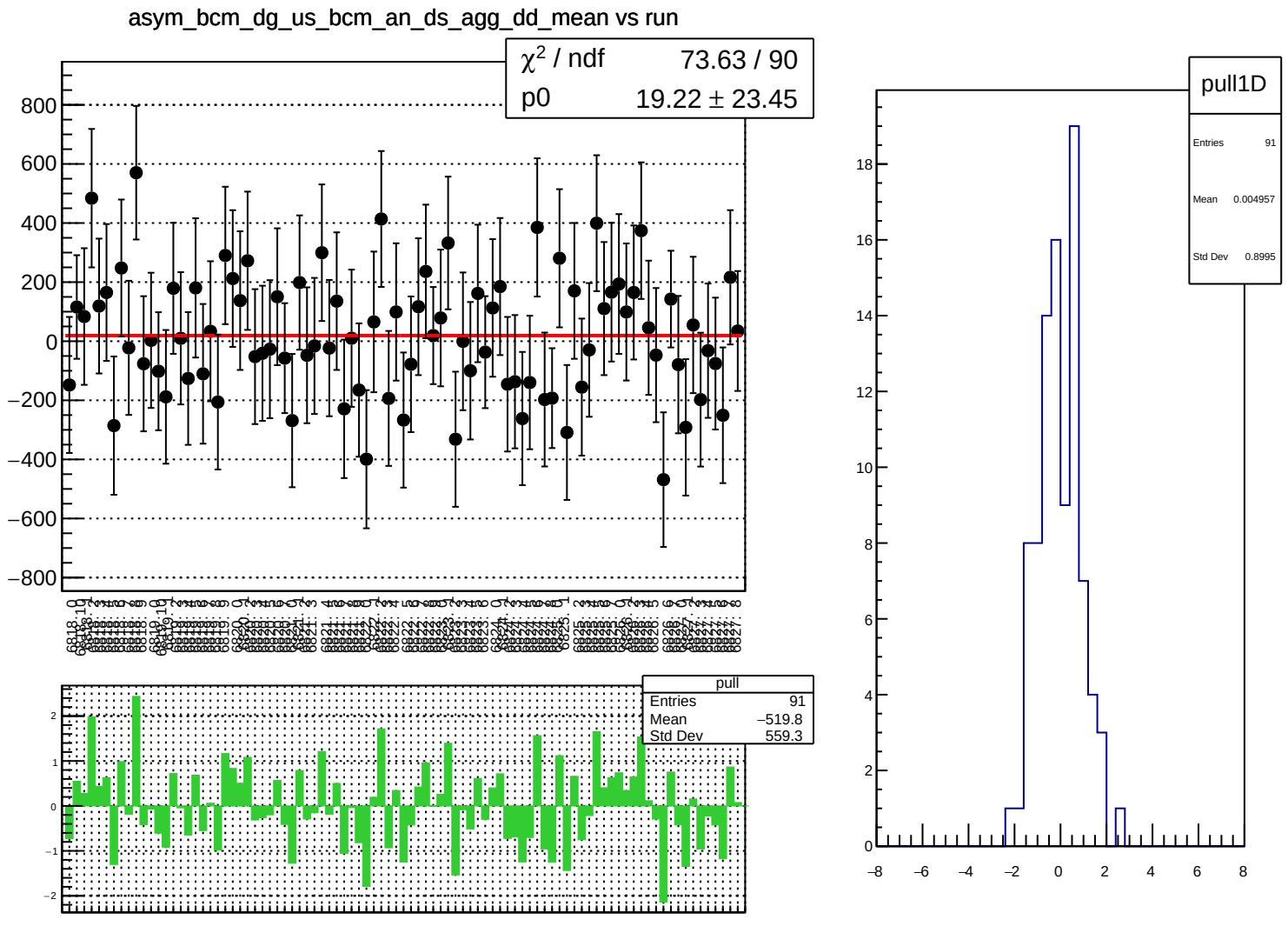

pull1D
Entries 91
Mean 0.0001264
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

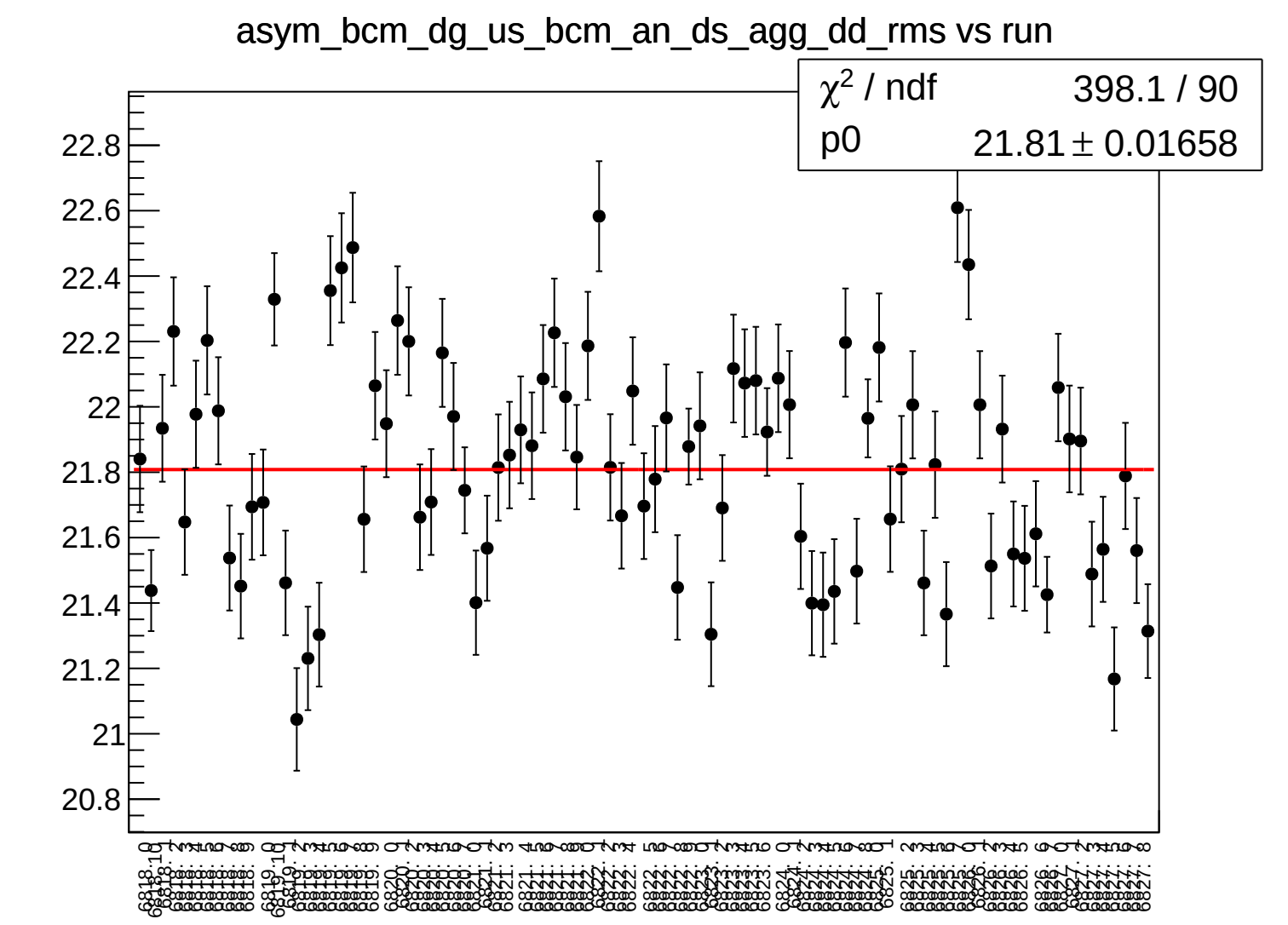

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.602e+04 / 90
p0 10.11 ± 0.00772
13
12.5
12
11.5
11
10.5
10
9.5
9

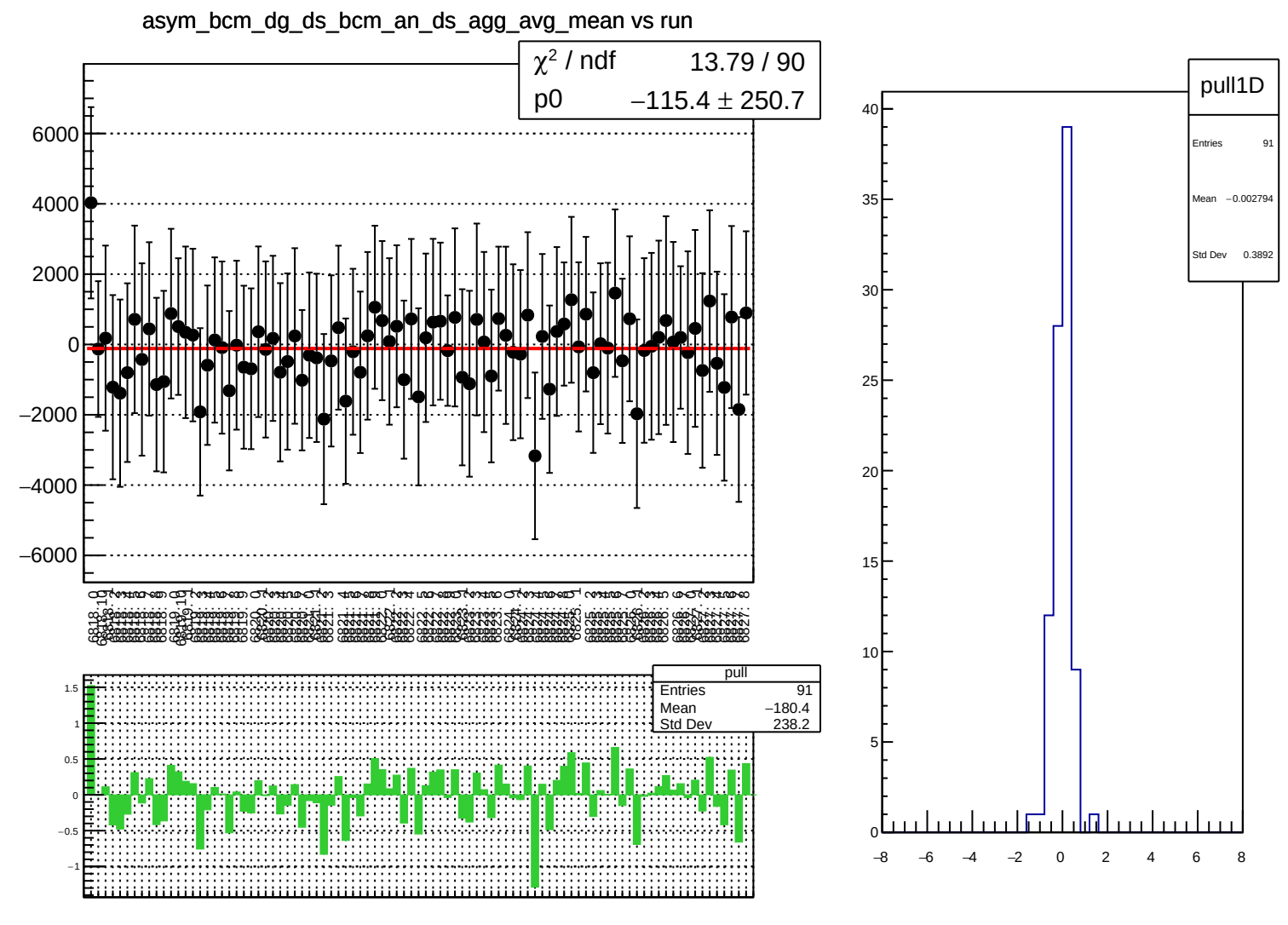

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.85 / 90
p0 −97.58 ± 250.1
pull
Entries 91
Mean −92.93
Std Dev 163.7

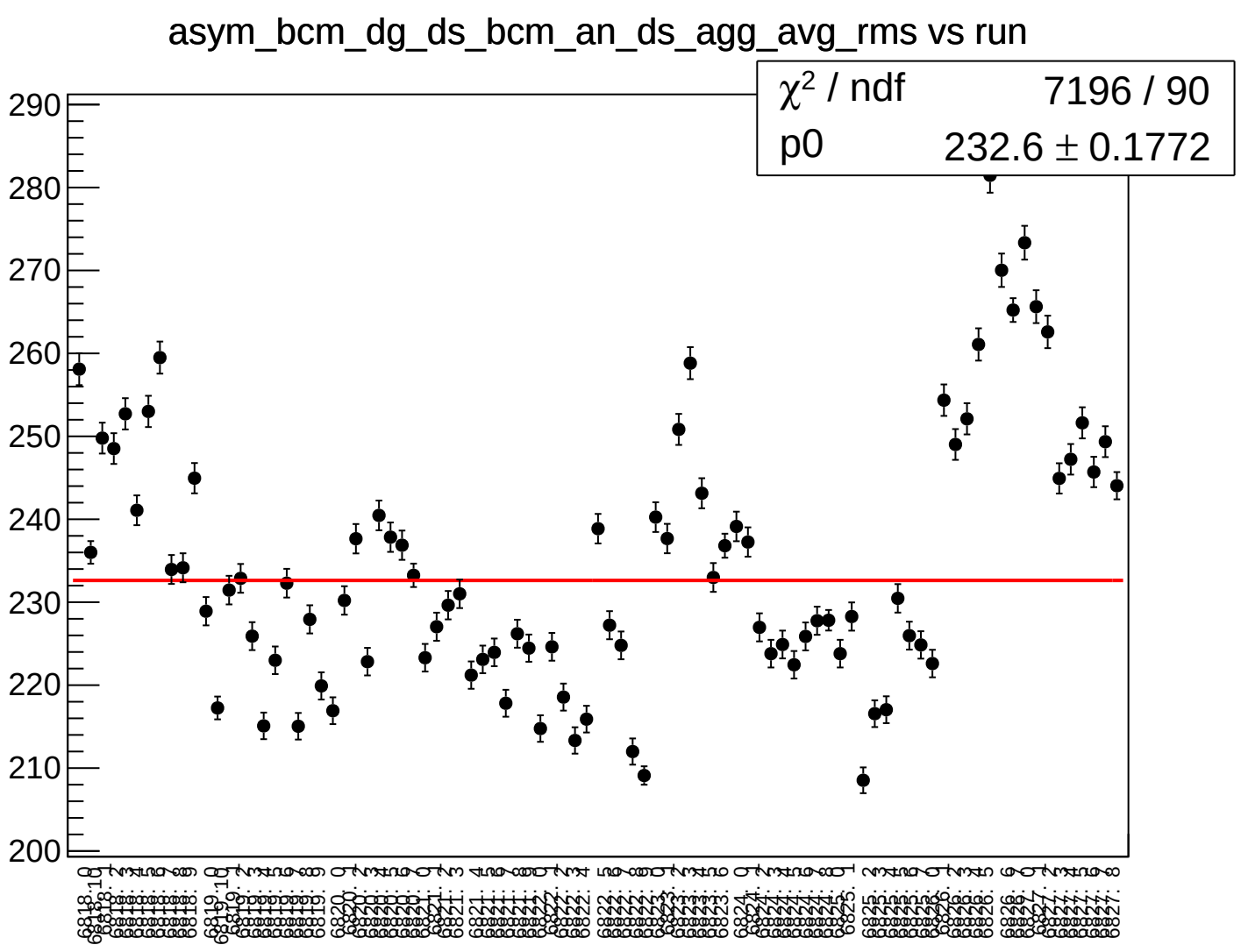

pull1D
Entries 91
Mean −0.002484
Std Dev 0.404

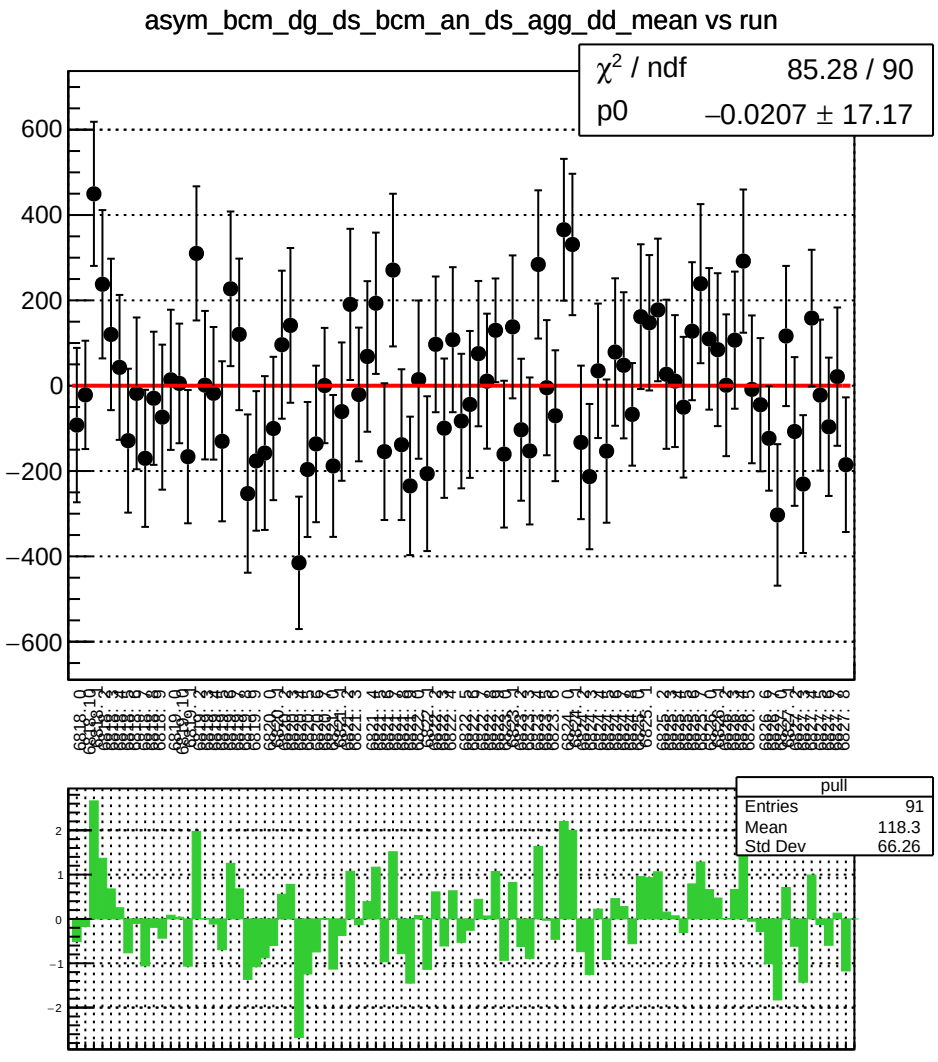

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7035 / 90
p0 232.1 ± 0.1768
280
270
260
250
240
230
220
210
200

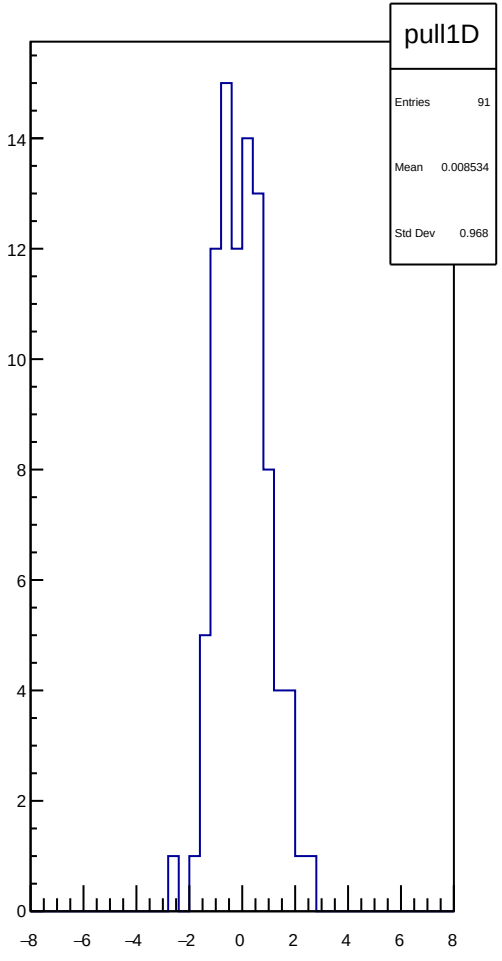

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.63 / 90
p0 19.22 ± 23.45
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −519.8
Std Dev 559.3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.004957
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

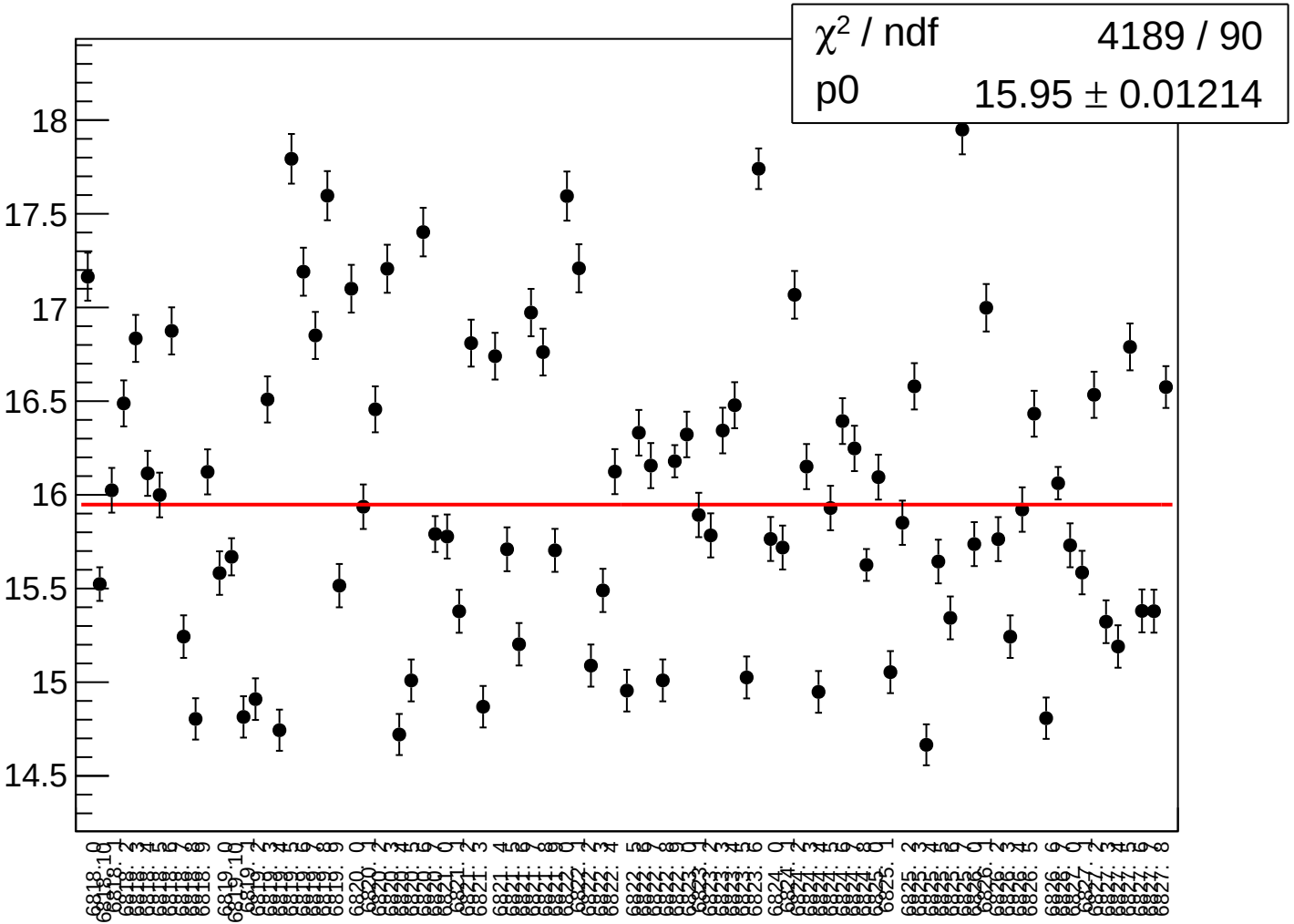

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 398.1 / 90
p0 21.81 ± 0.01658
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8

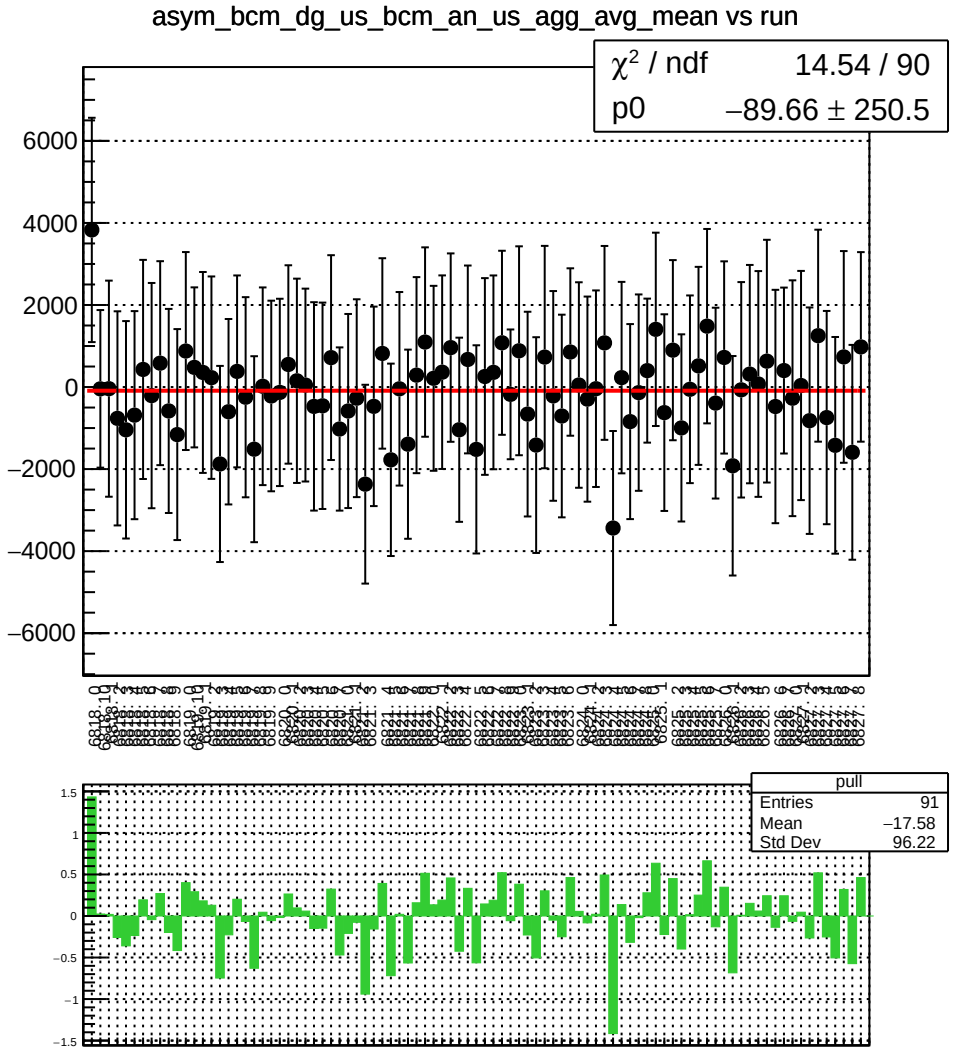

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.79 / 90
p0 −115.4 ± 250.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −180.4
Std Dev 238.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean −0.002794
Std Dev 0.3892
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

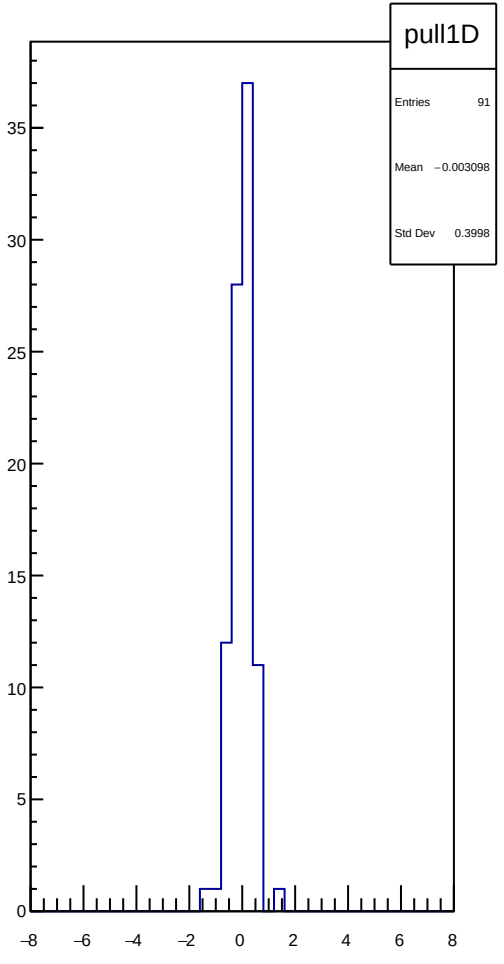

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7196 / 90
p0 232.6 ± 0.1772
290
280
270
260
250
240
230
220
210
200

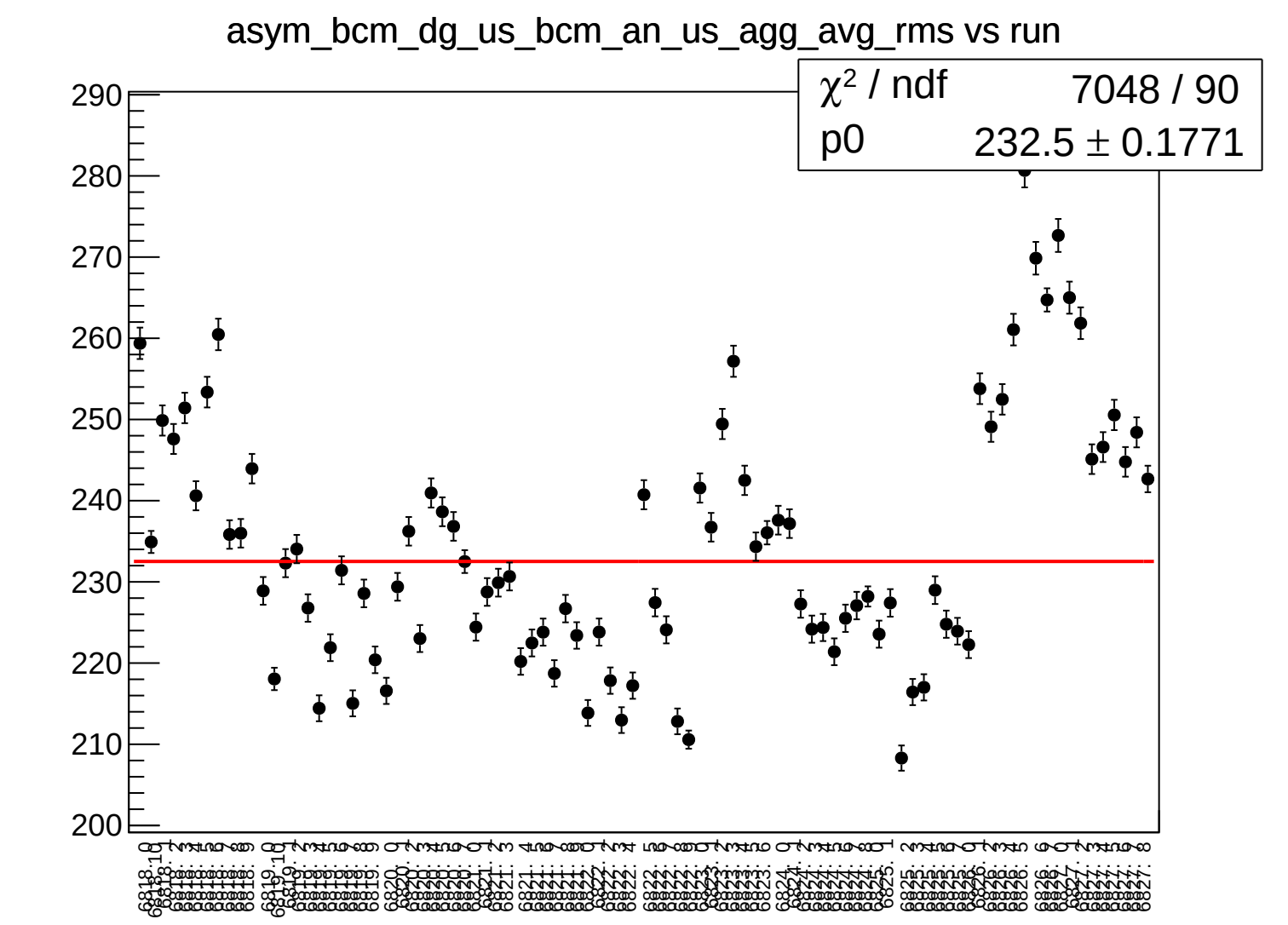

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.28 / 90
p0 −0.0207 ± 17.17
pull
Entries 91
Mean 118.3
Std Dev 66.26

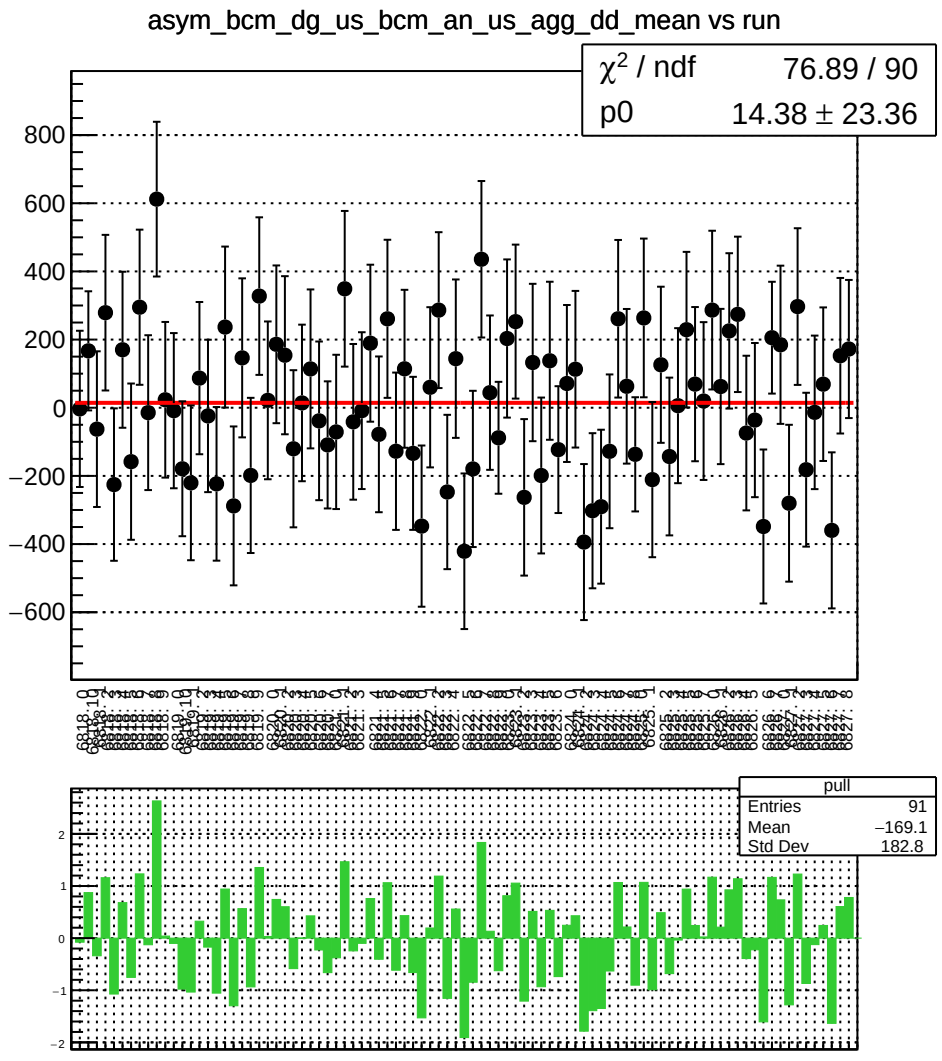

pull1D
Entries 91
Mean 0.008534
Std Dev 0.968

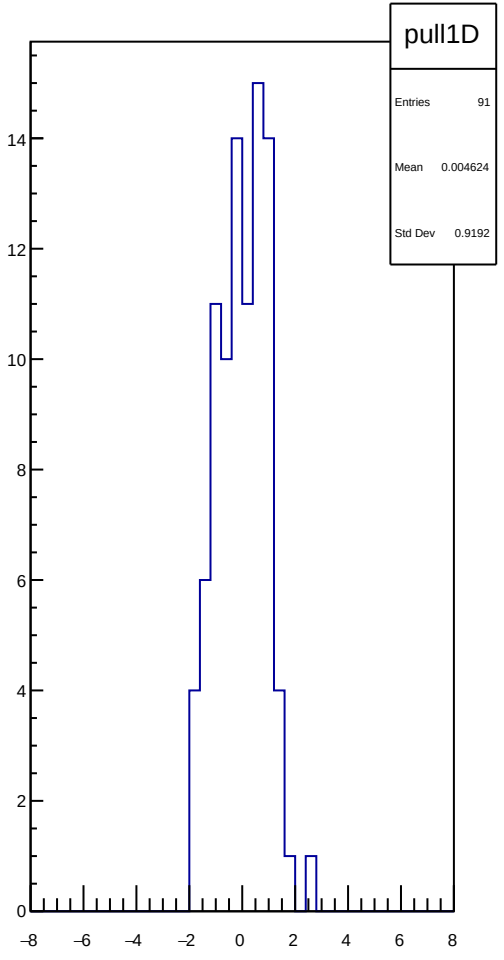

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4189 / 90
p0 15.95 ± 0.01214
18
17.5
17
16.5
16
15.5
15
14.5

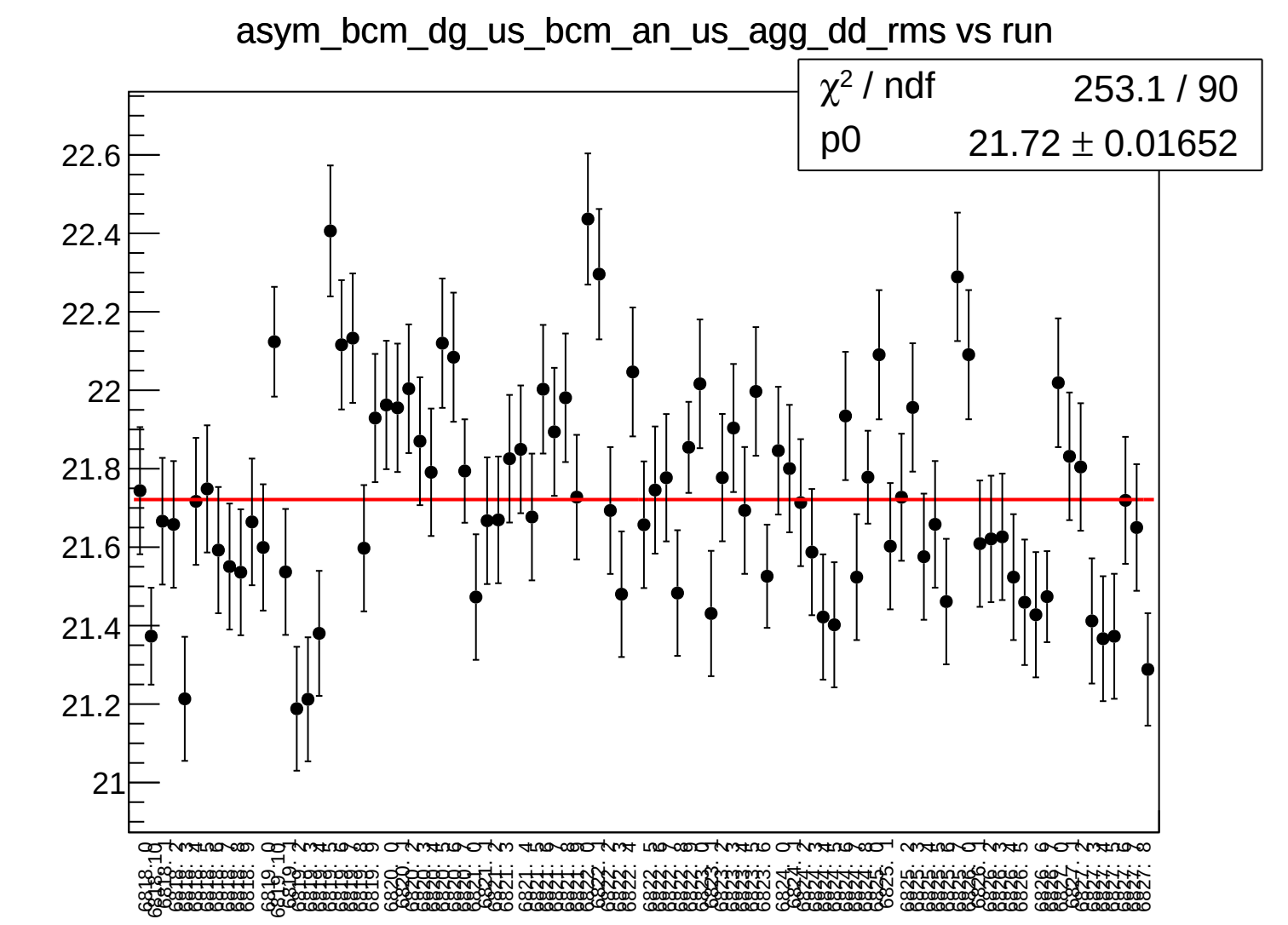

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.54 / 90
p0 −89.66 ± 250.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −17.58
Std Dev 96.22
1.5
1
0.5
0
−0.5
−1
−1.5

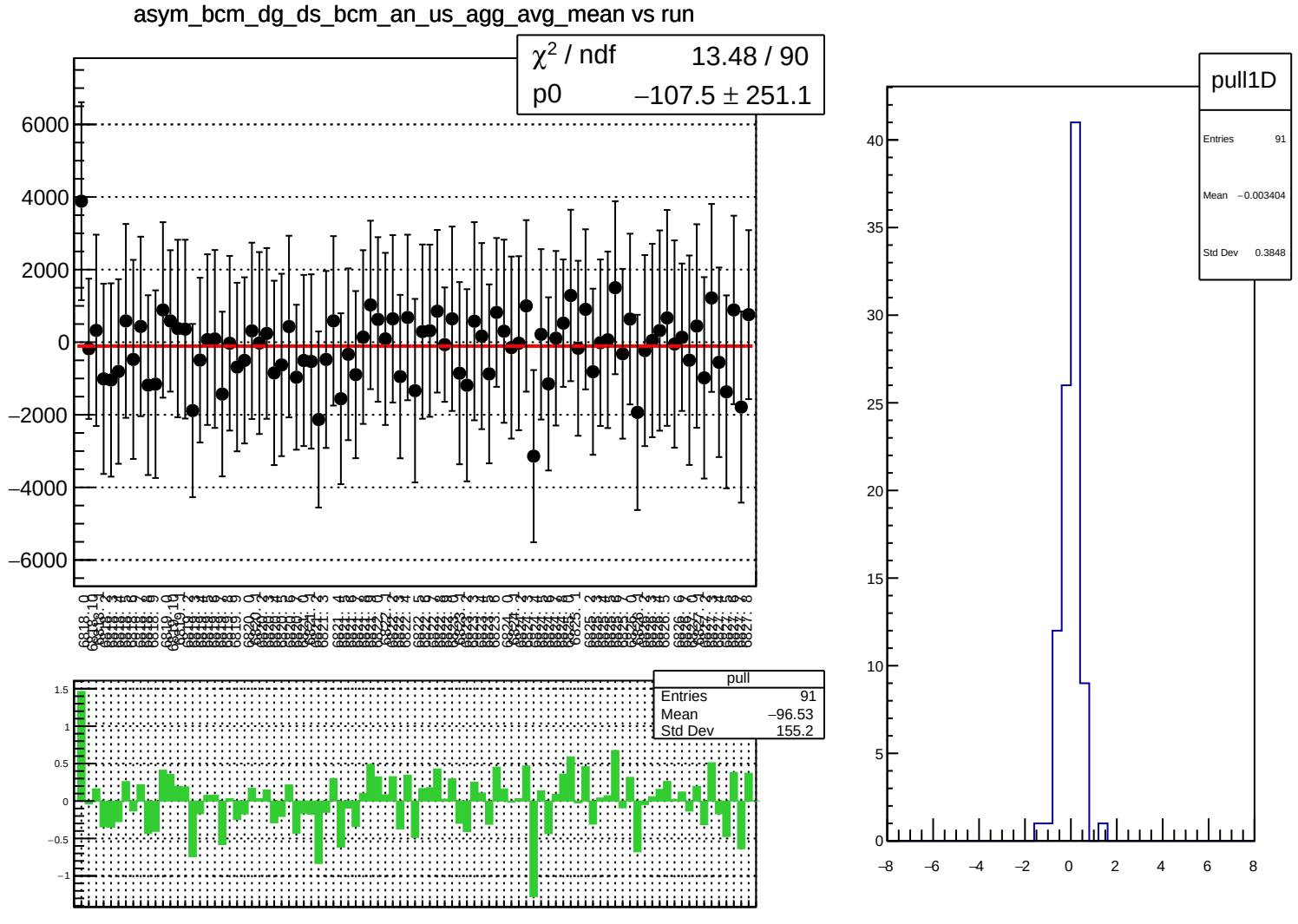

pull1D
Entries 91
Mean −0.003098
Std Dev 0.3998
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

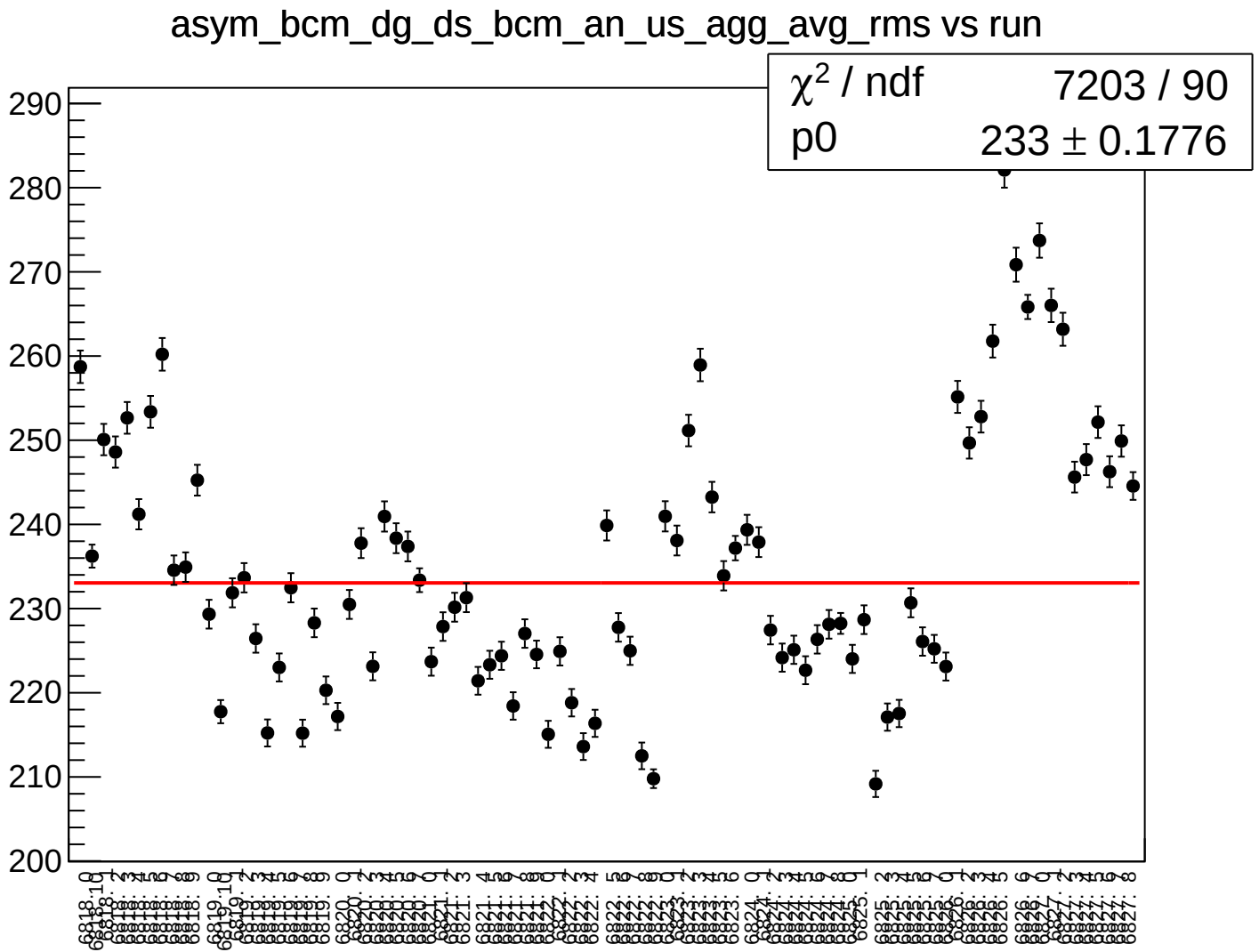

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7048 / 90
p0 232.5 ± 0.1771
290
280
270
260
250
240
230
220
210
200

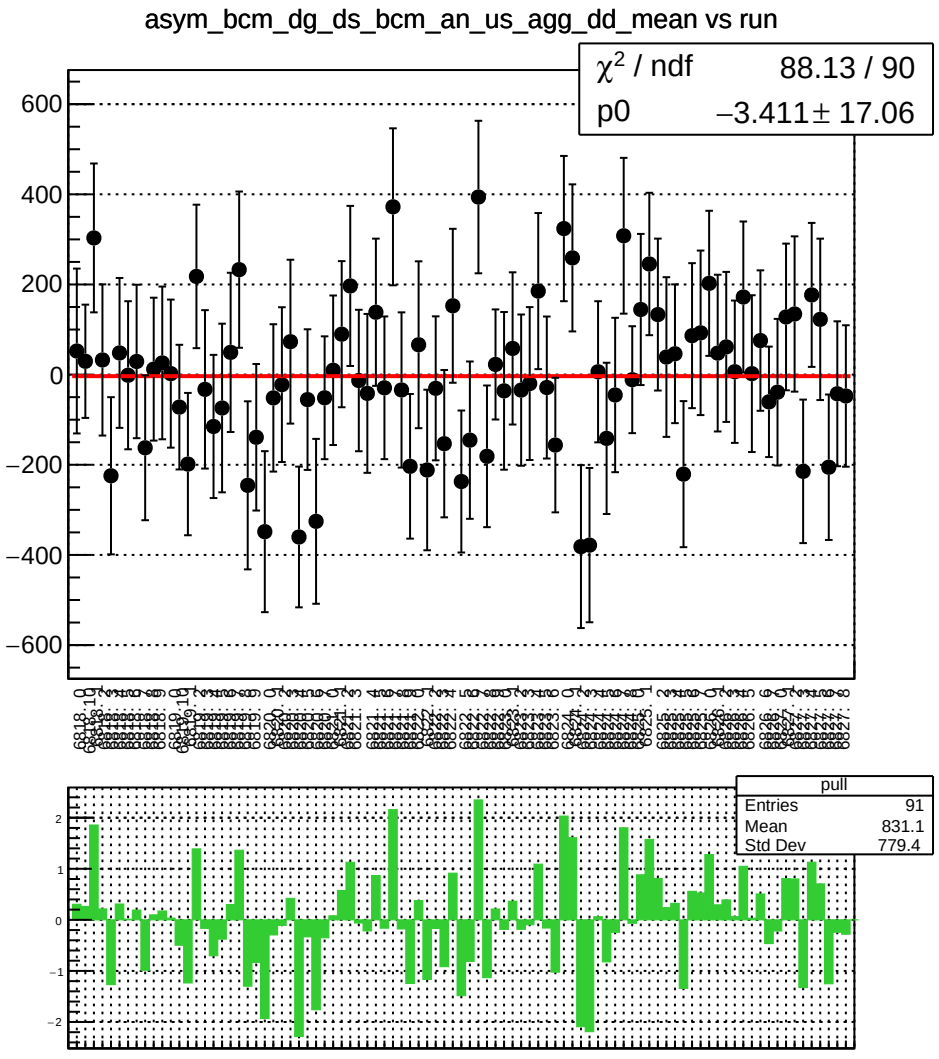

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 76.89 / 90
p0 14.38 ± 23.36
pull
Entries 91
Mean −169.1
Std Dev 182.8

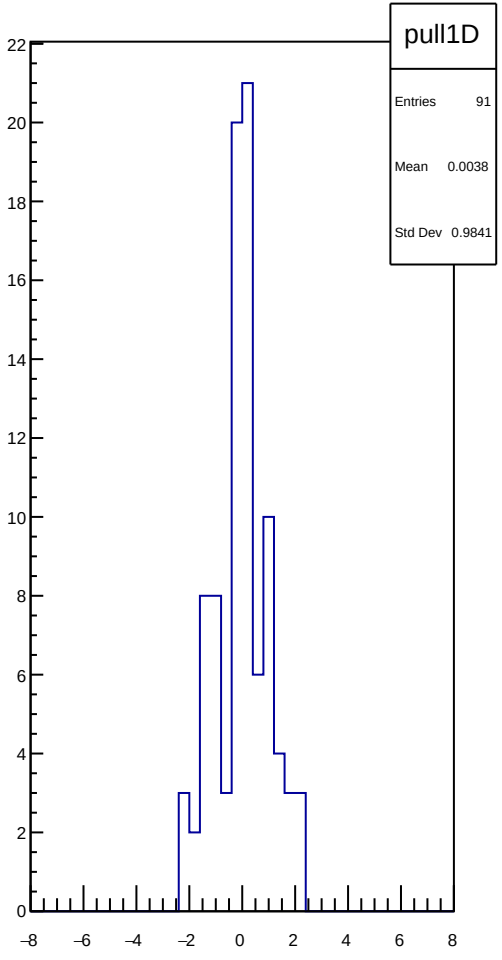

pull1D
Entries 91
Mean 0.004624
Std Dev 0.9192

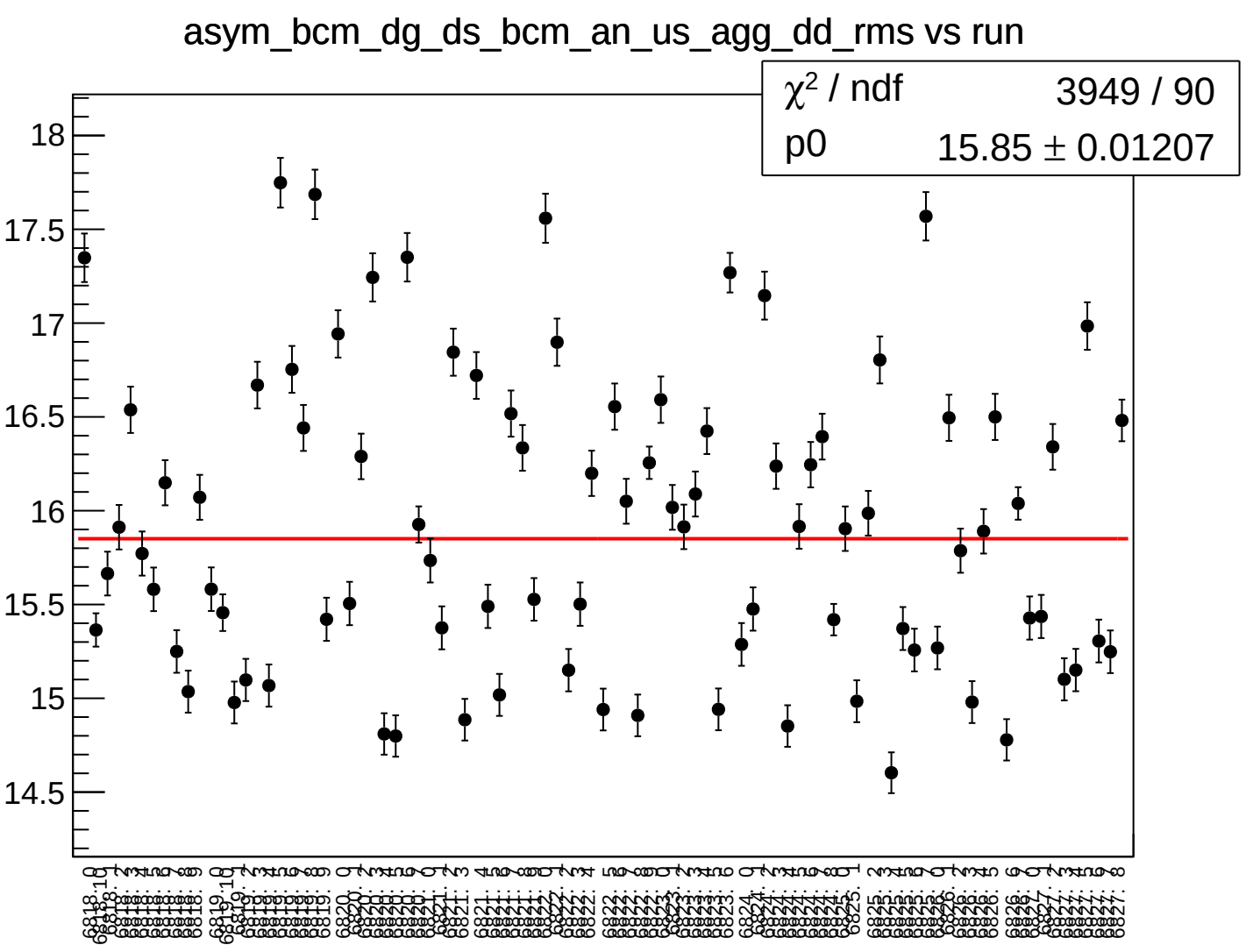

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 253.1 / 90
p0 21.72 ± 0.01652
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21

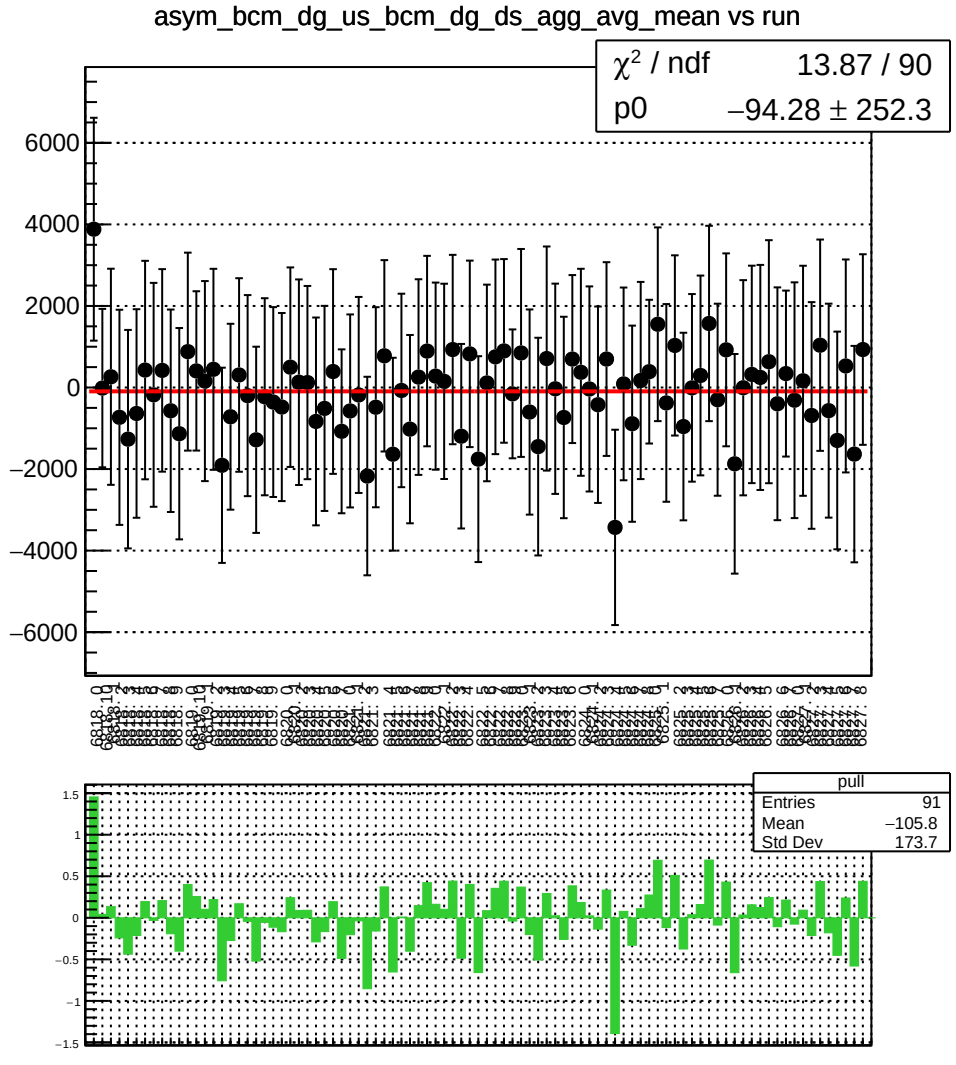

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.48 / 90
p0 −107.5 ± 251.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −96.53
Std Dev 155.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean −0.003404
Std Dev 0.3848
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

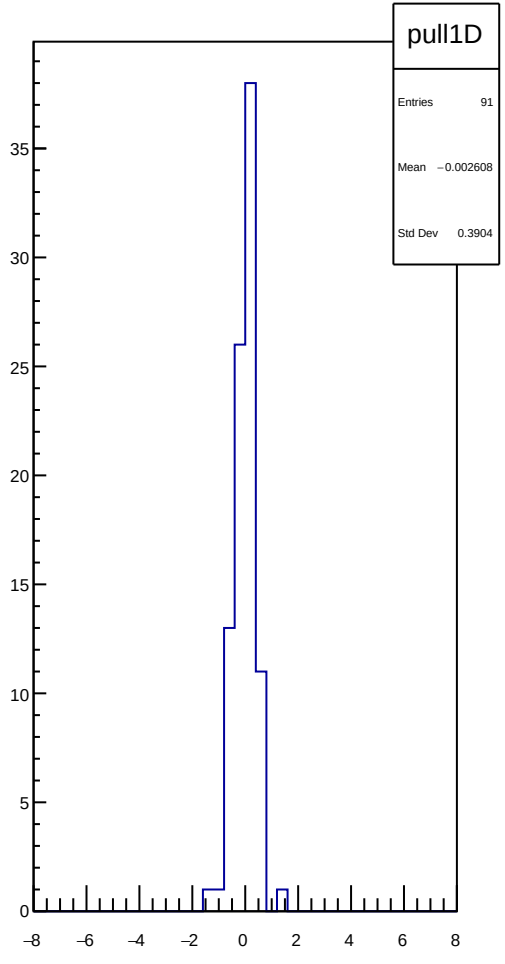

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7203 / 90
p0 233 ± 0.1776
290
280
270
260
250
240
230
220
210
200

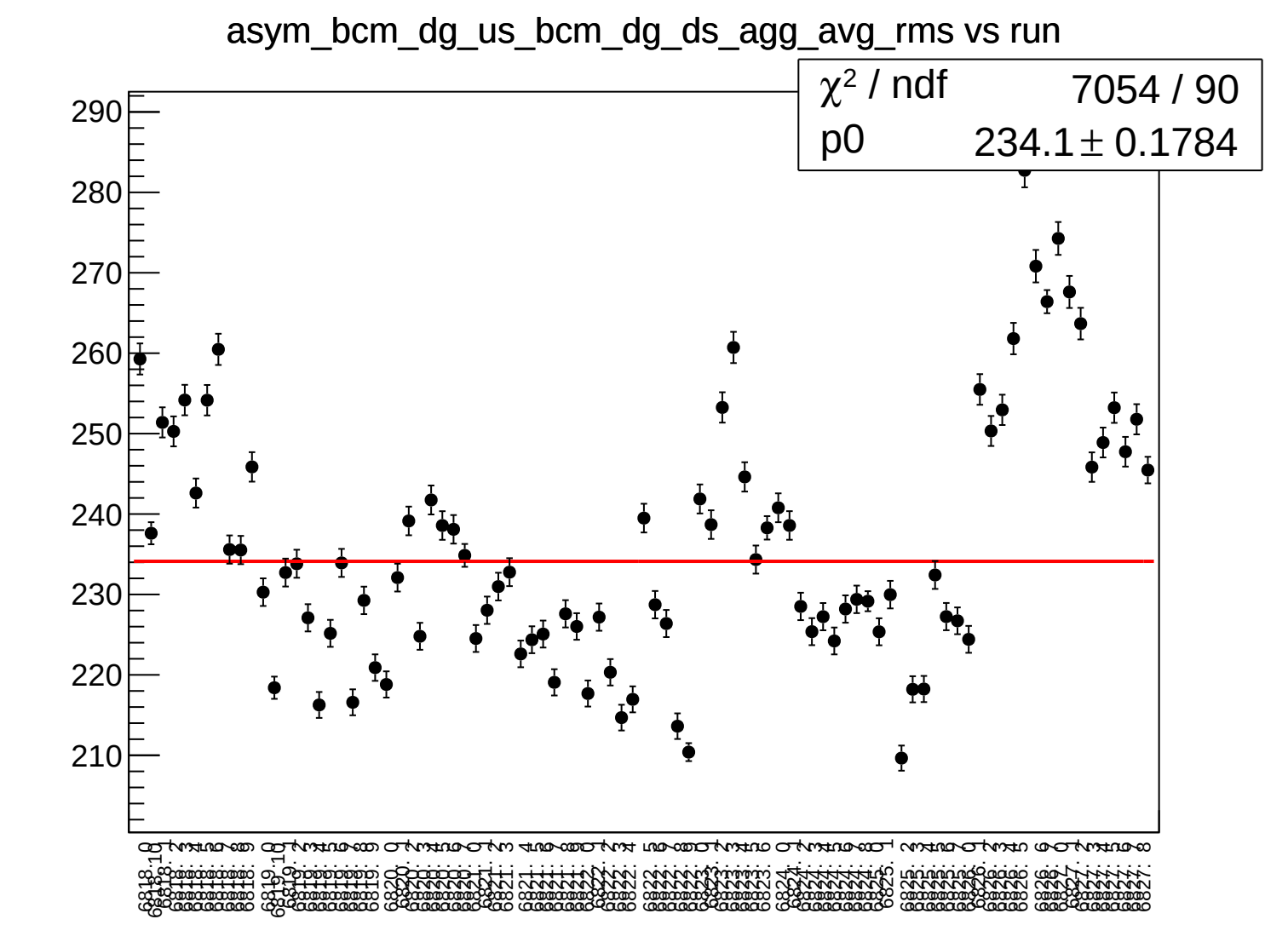

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.13 / 90
p0 −3.411 ± 17.06
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 831.1
Std Dev 779.4
2
1
0
−1
−2

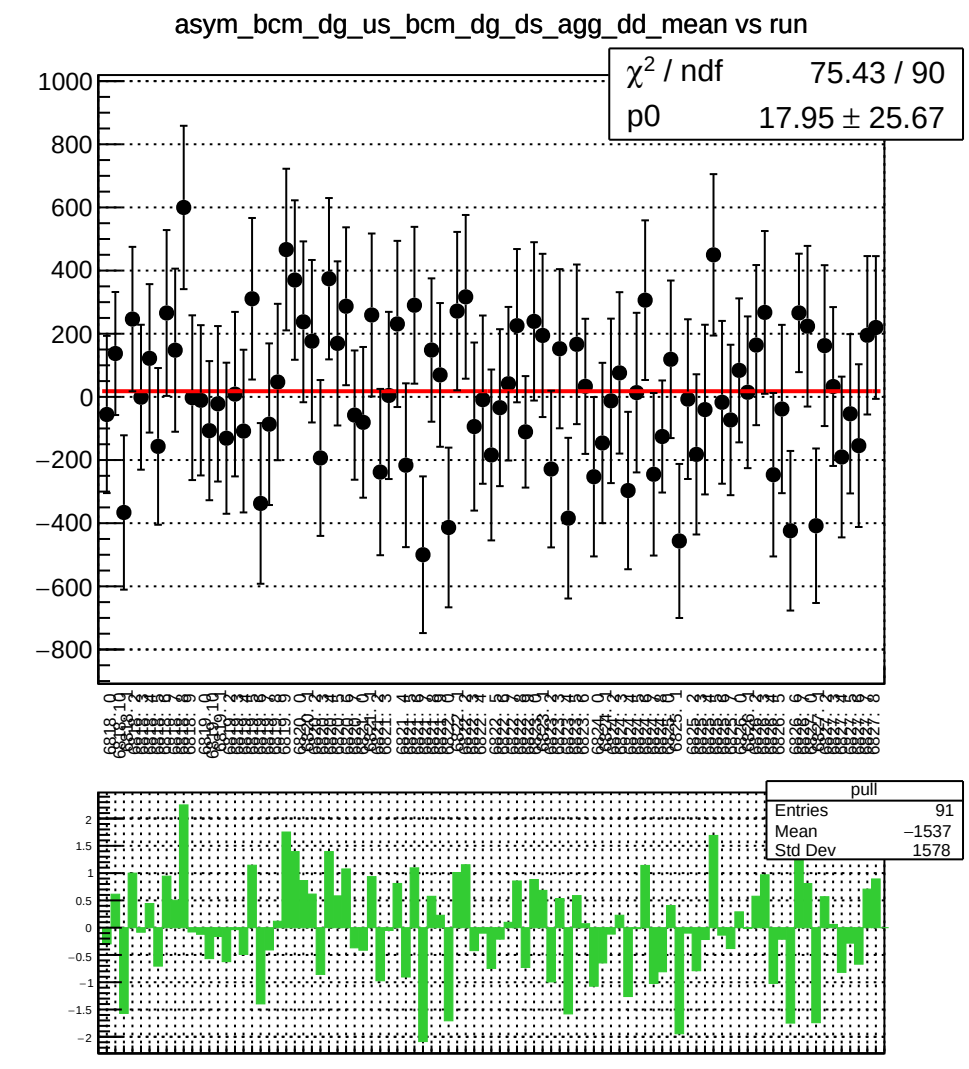

pull1D
Entries 91
Mean 0.0038
Std Dev 0.9841
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

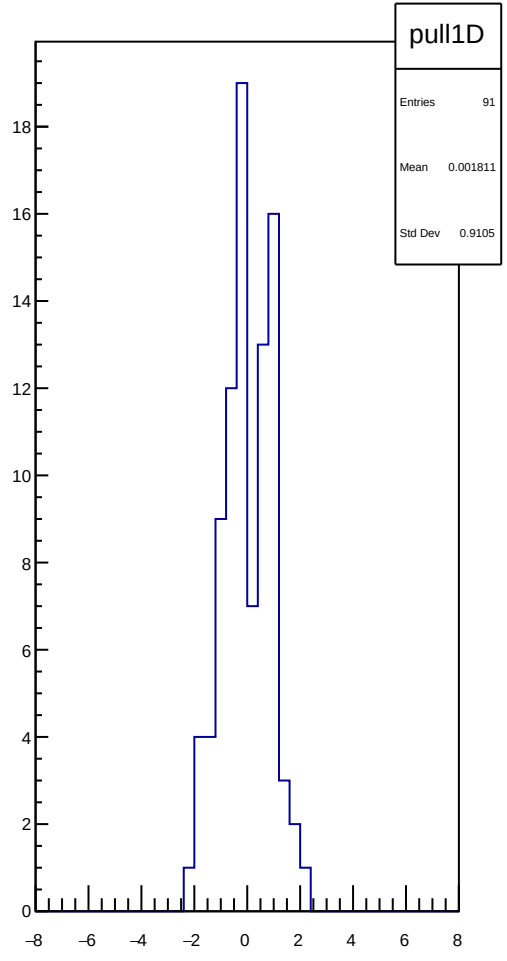

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3949 / 90
p0 15.85 ± 0.01207
18
17.5
17
16.5
16
15.5
15
14.5

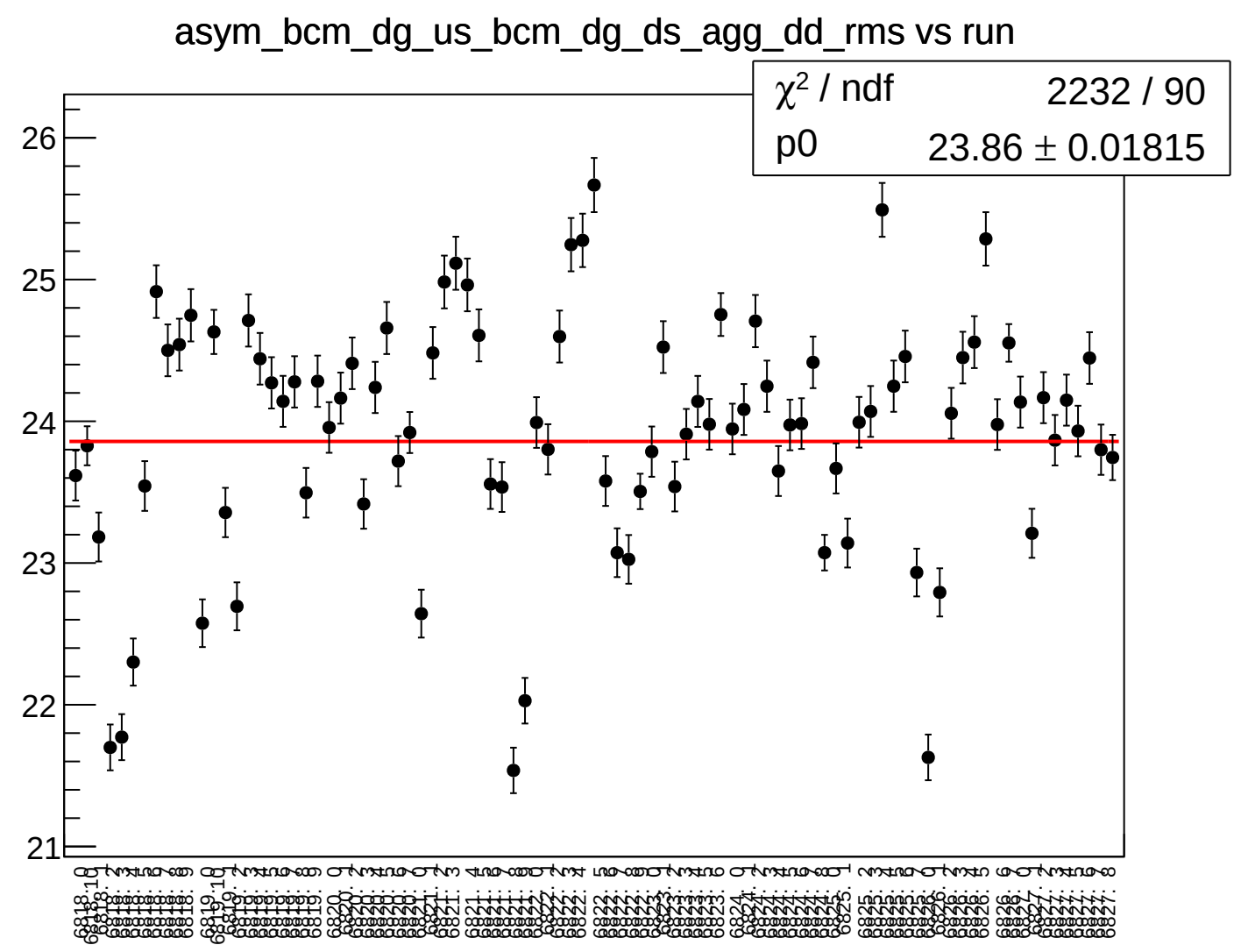

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.87 / 90
p0 −94.28 ± 252.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −105.8
Std Dev 173.7
1.5
1
0.5
0
−0.5
−1
−1.5

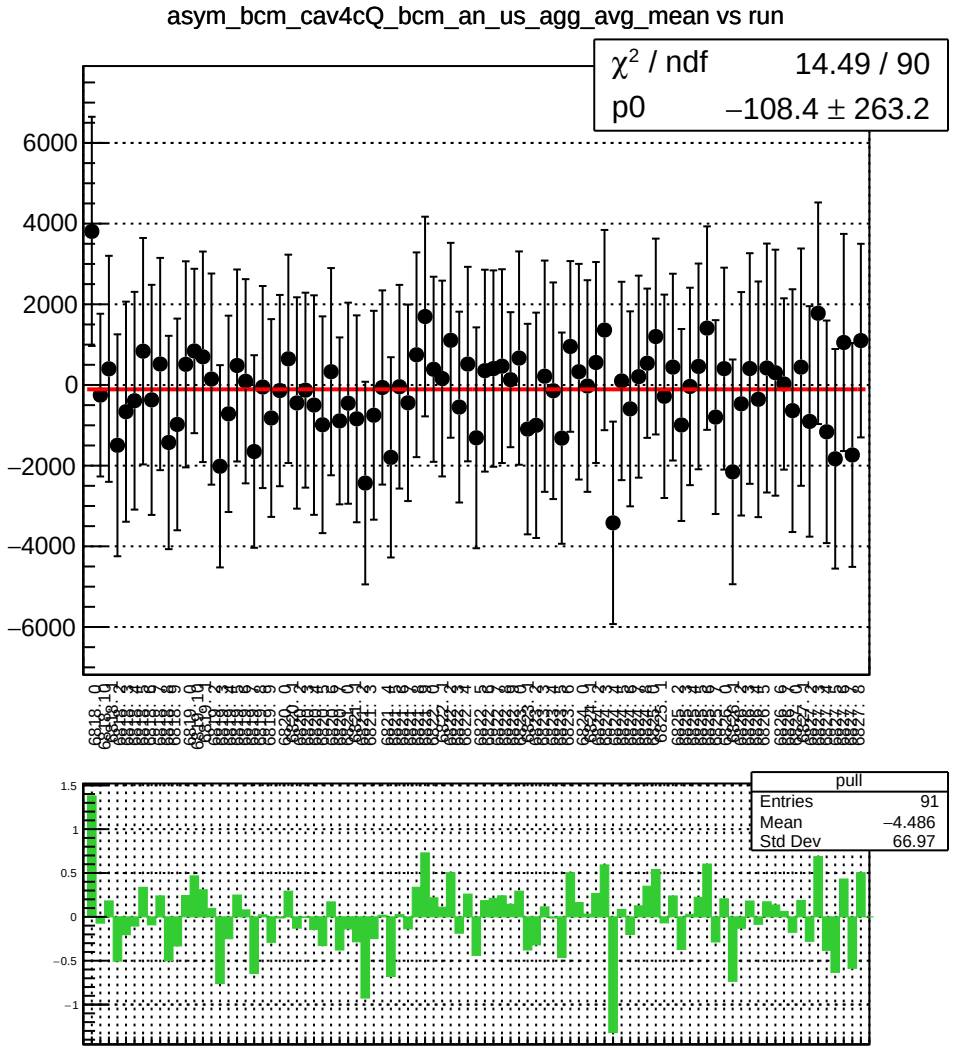

pull1D
Entries 91
Mean −0.002608
Std Dev 0.3904
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

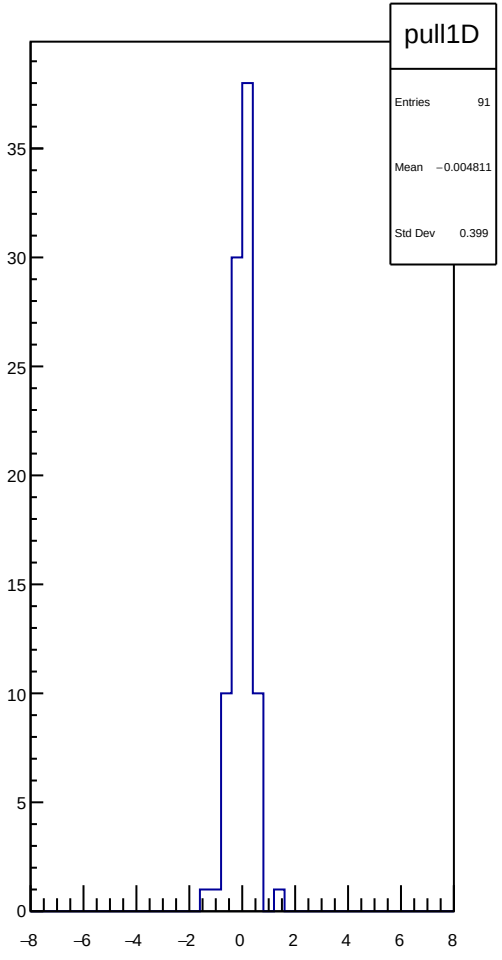

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7054 / 90
p0 234.1 ± 0.1784
290
280
270
260
250
240
230
220
210

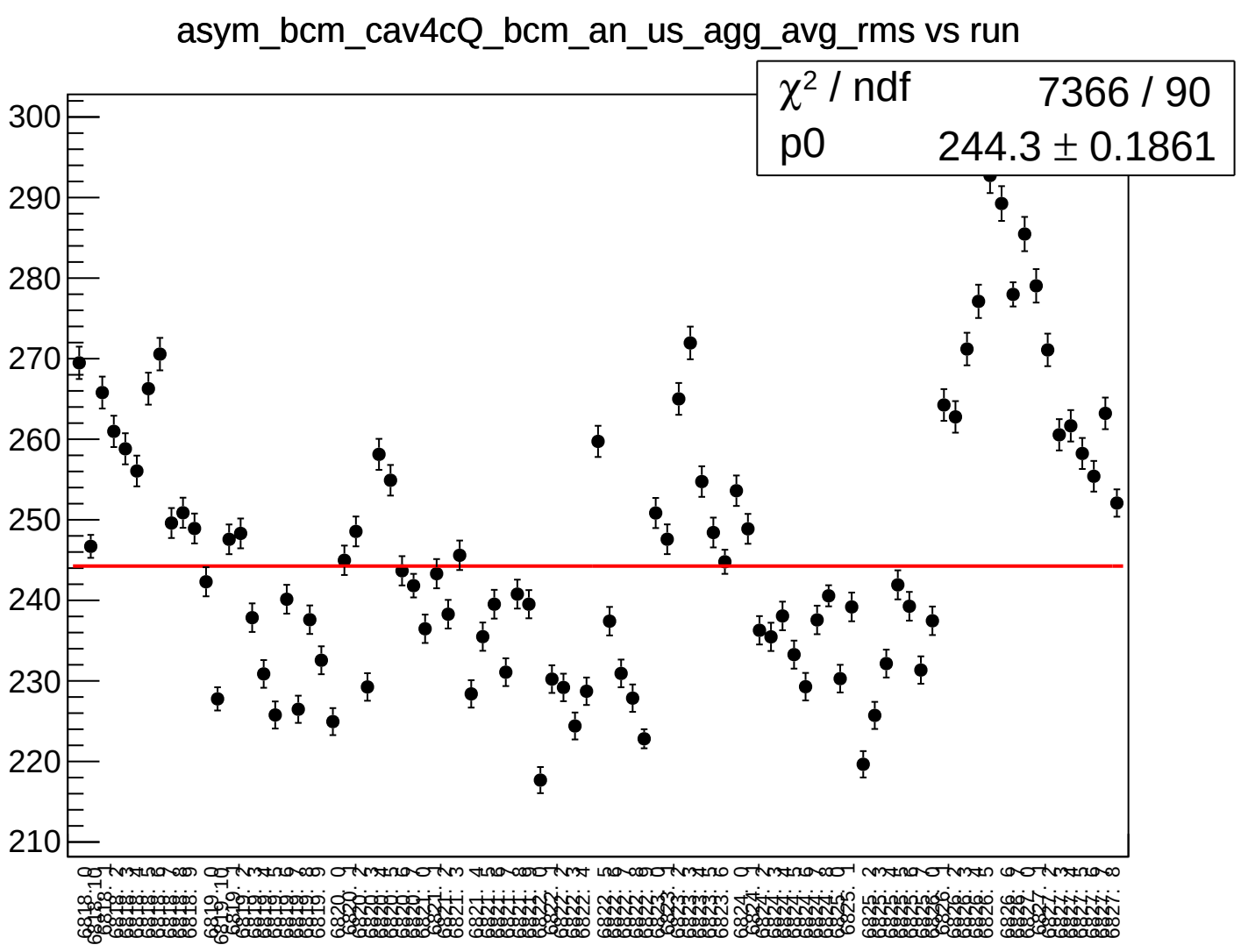

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 75.43 / 90
p0 17.95 ± 25.67
pull
Entries 91
Mean −1537
Std Dev 1578

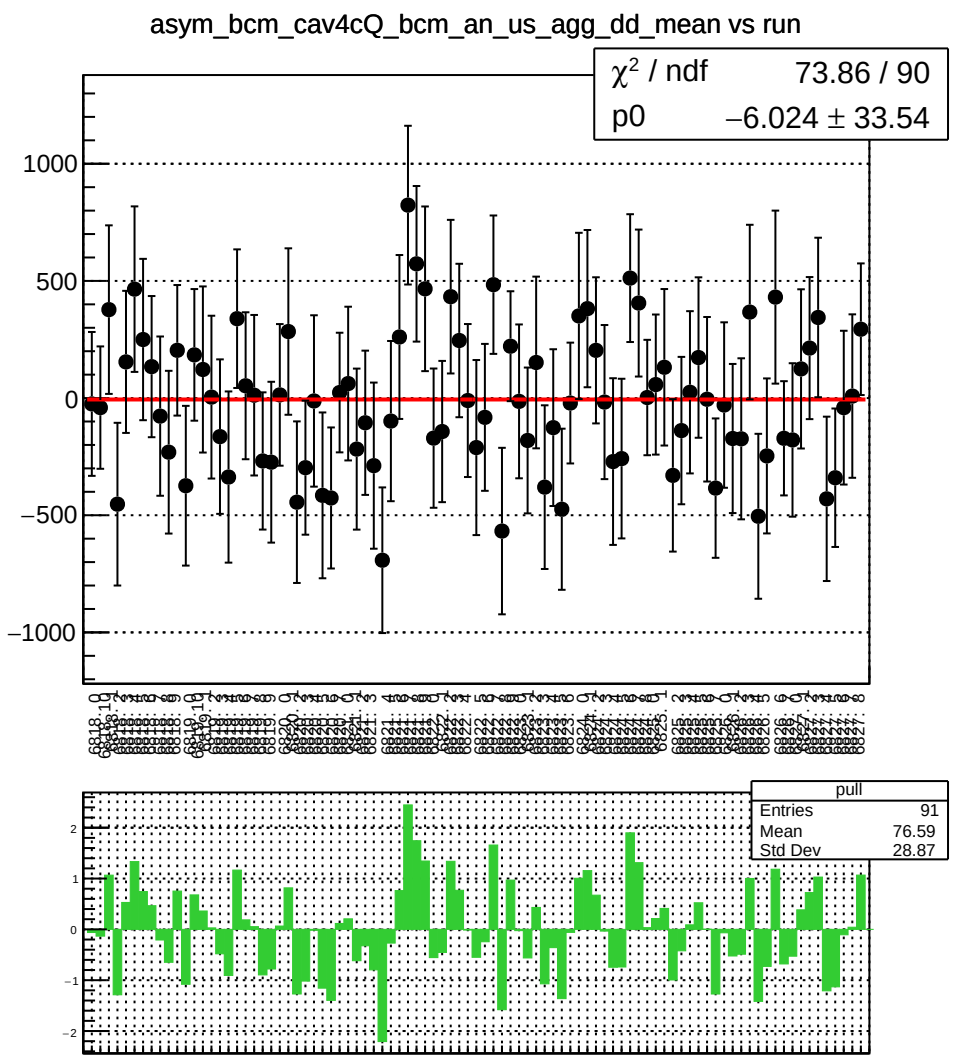

pull1D
Entries 91
Mean 0.001811
Std Dev 0.9105

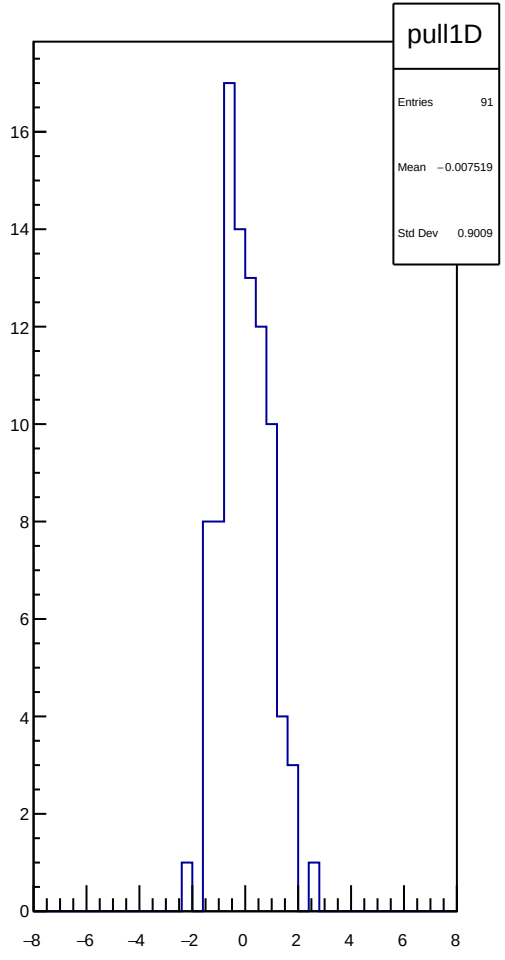

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2232 / 90
p0 23.86 ± 0.01815
26
25
24
23
22
21

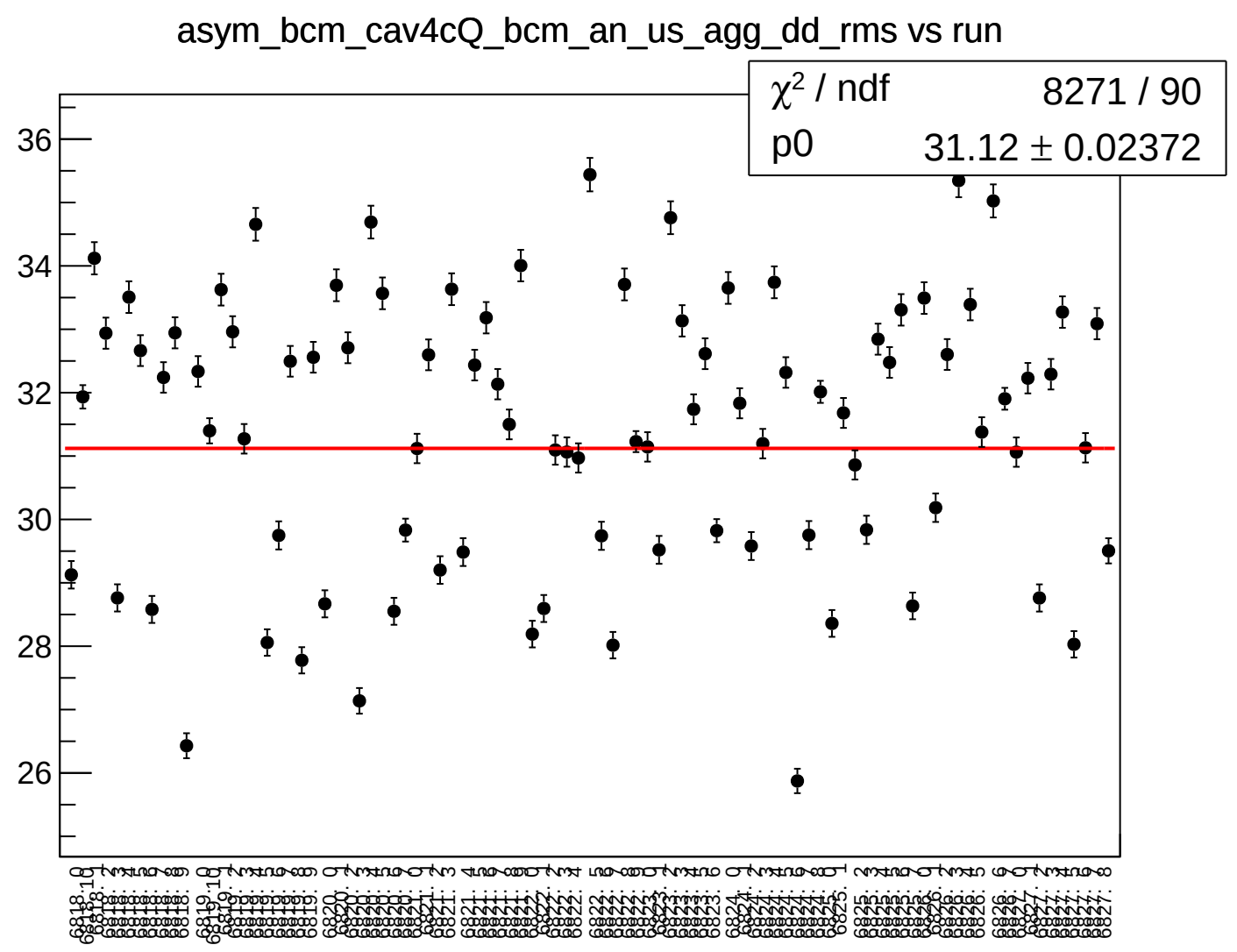

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.49 / 90
p0 −108.4 ± 263.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −4.486
Std Dev 66.97
1.5
1
0.5
0
−0.5
−1

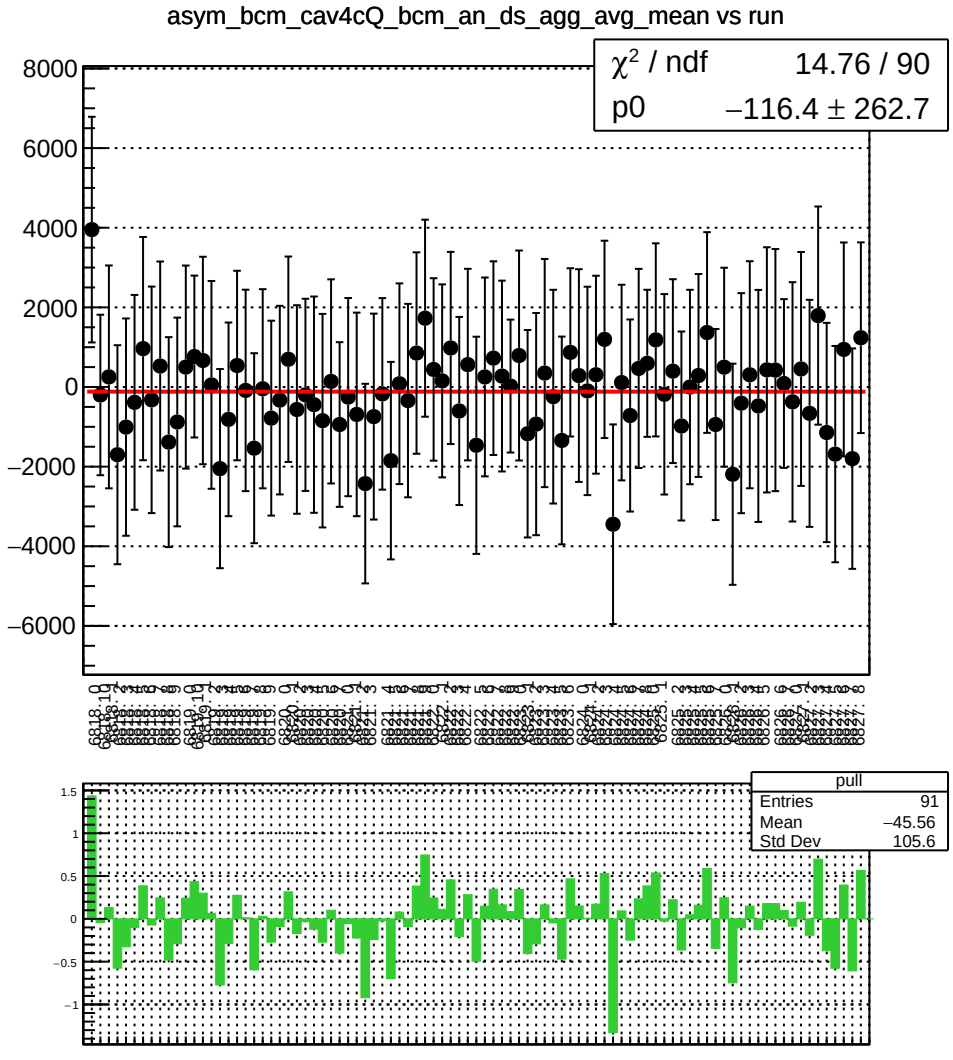

pull1D
Entries 91
Mean −0.004811
Std Dev 0.399
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

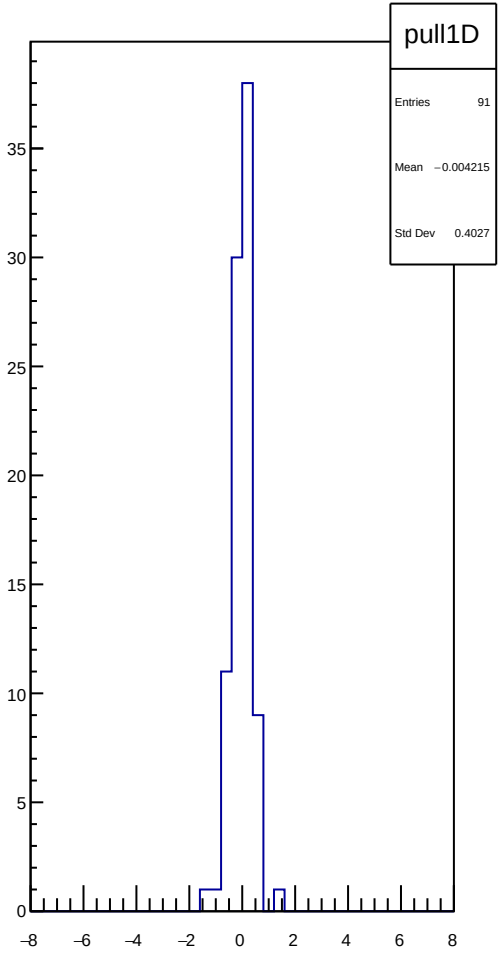

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7366 / 90
p0 244.3 ± 0.1861
300
290
280
270
260
250
240
230
220
210

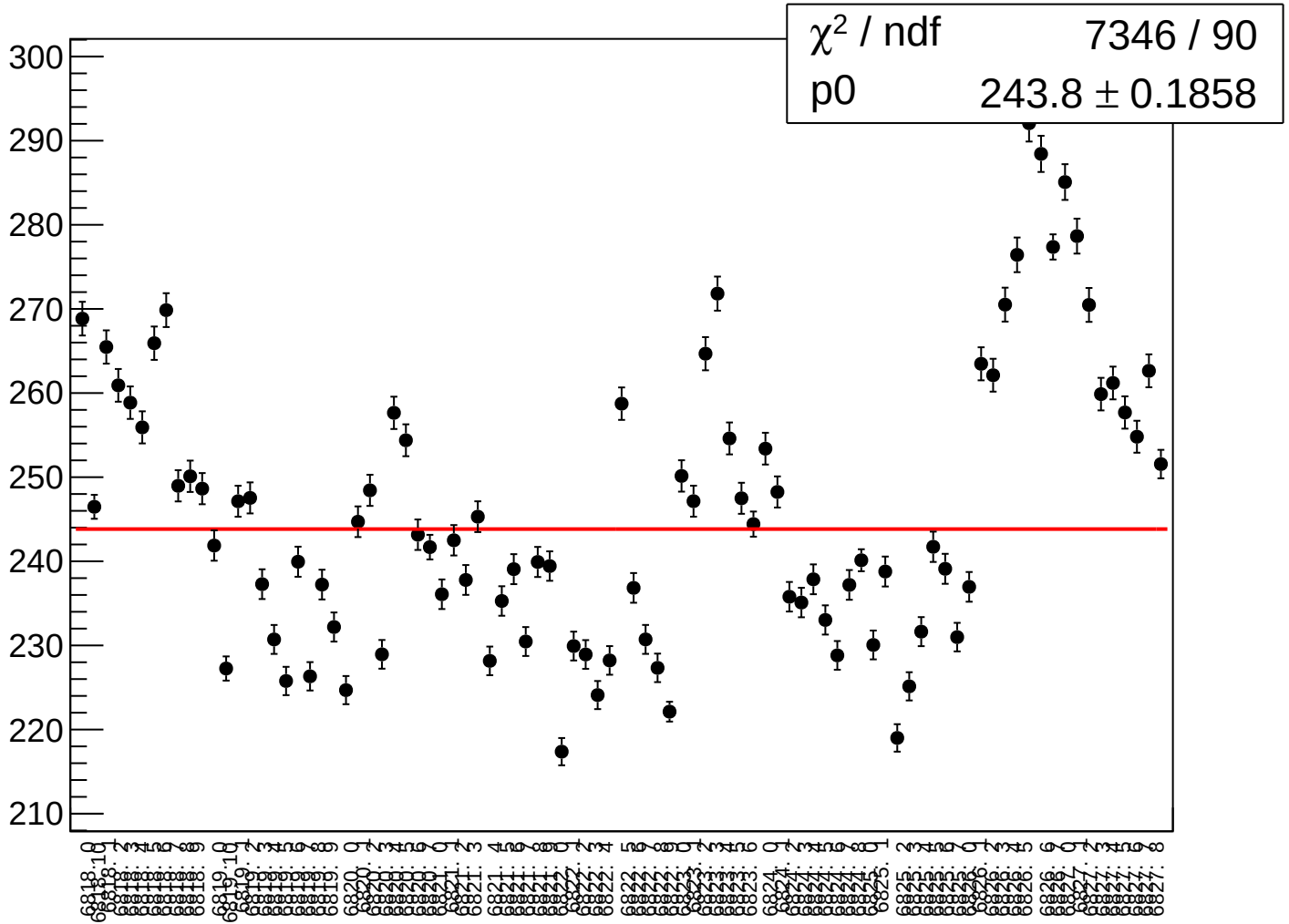

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 73.86 / 90
p0 −6.024 ± 33.54
1000
500
0
−500
−1000
pull
Entries 91
Mean 76.59
Std Dev 28.87
2
1
0
−1
−2

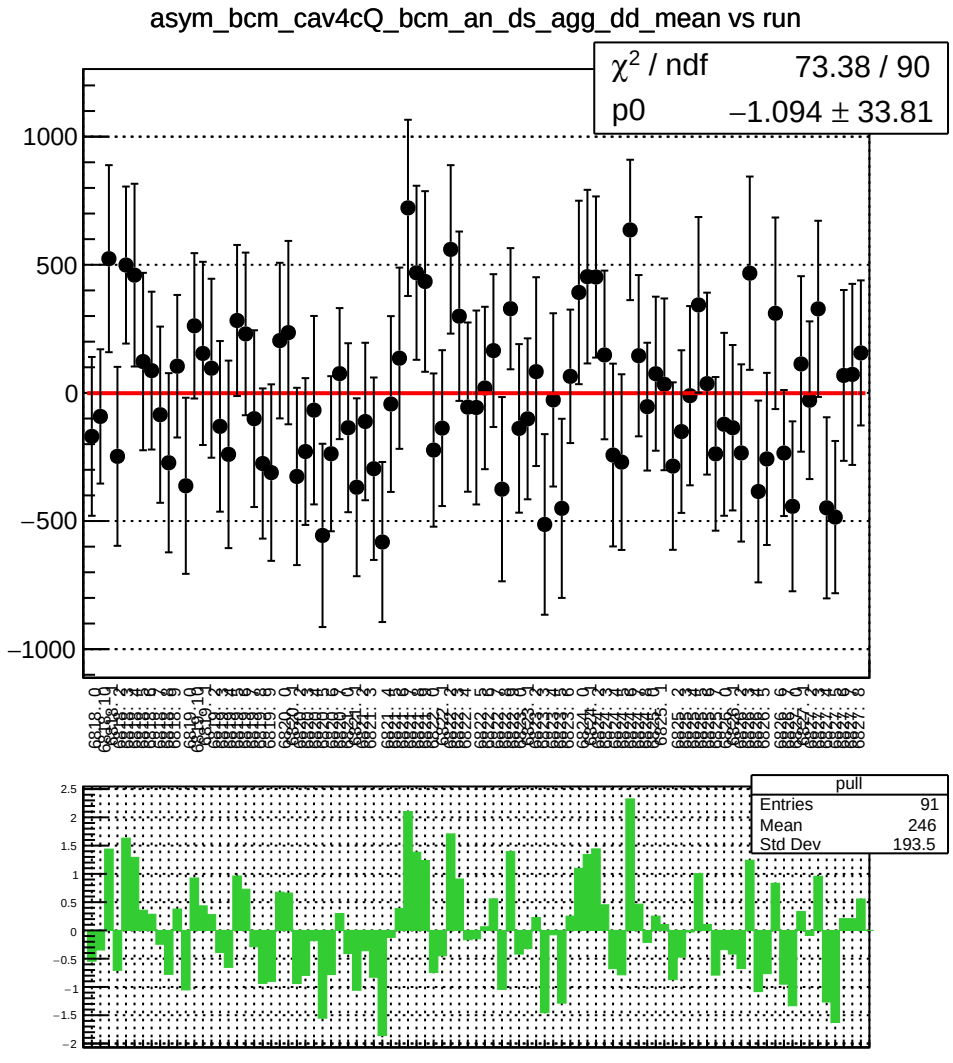

pull1D
Entries 91
Mean −0.007519
Std Dev 0.9009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

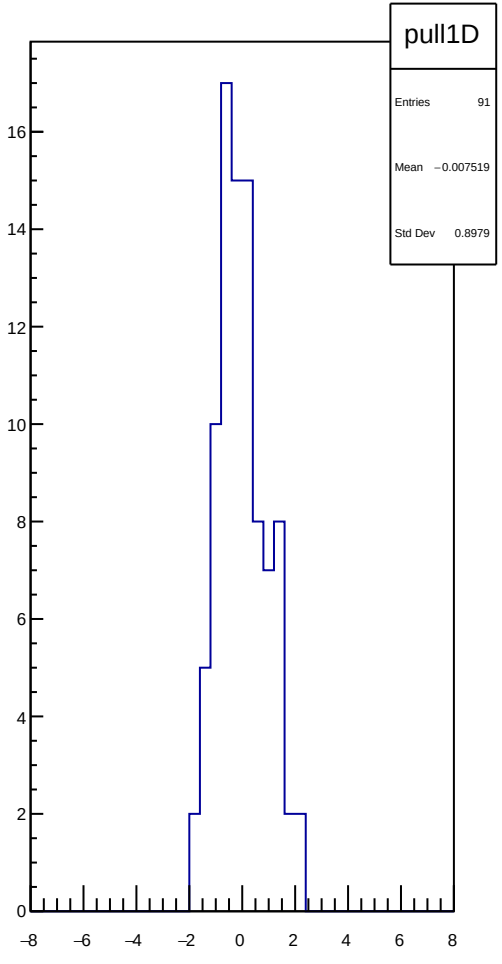

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 8271 / 90
p0 31.12 ± 0.02372
36
34
32
30
28
26

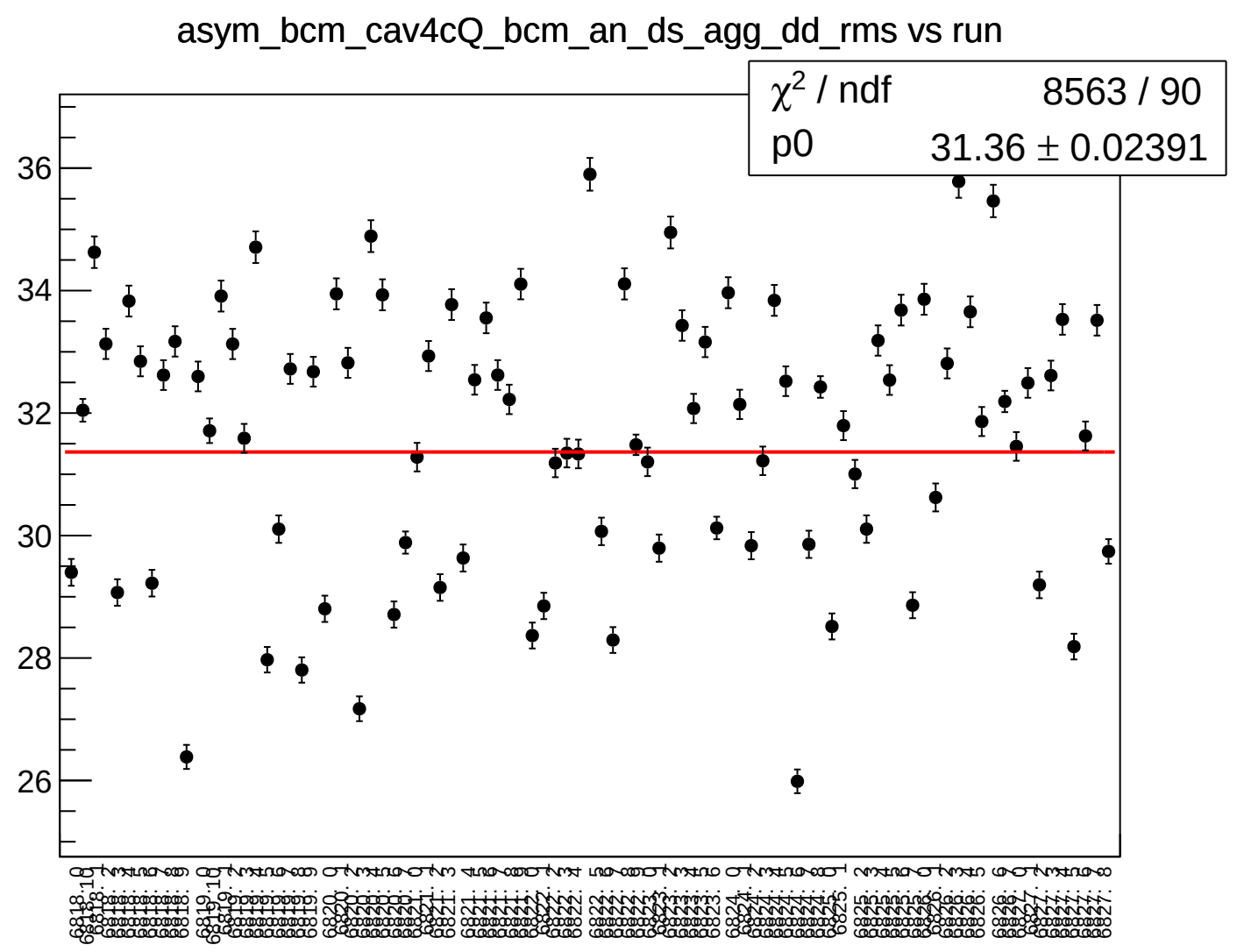

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.76 / 90
p0 −116.4 ± 262.7
pull
Entries 91
Mean −45.56
Std Dev 105.6

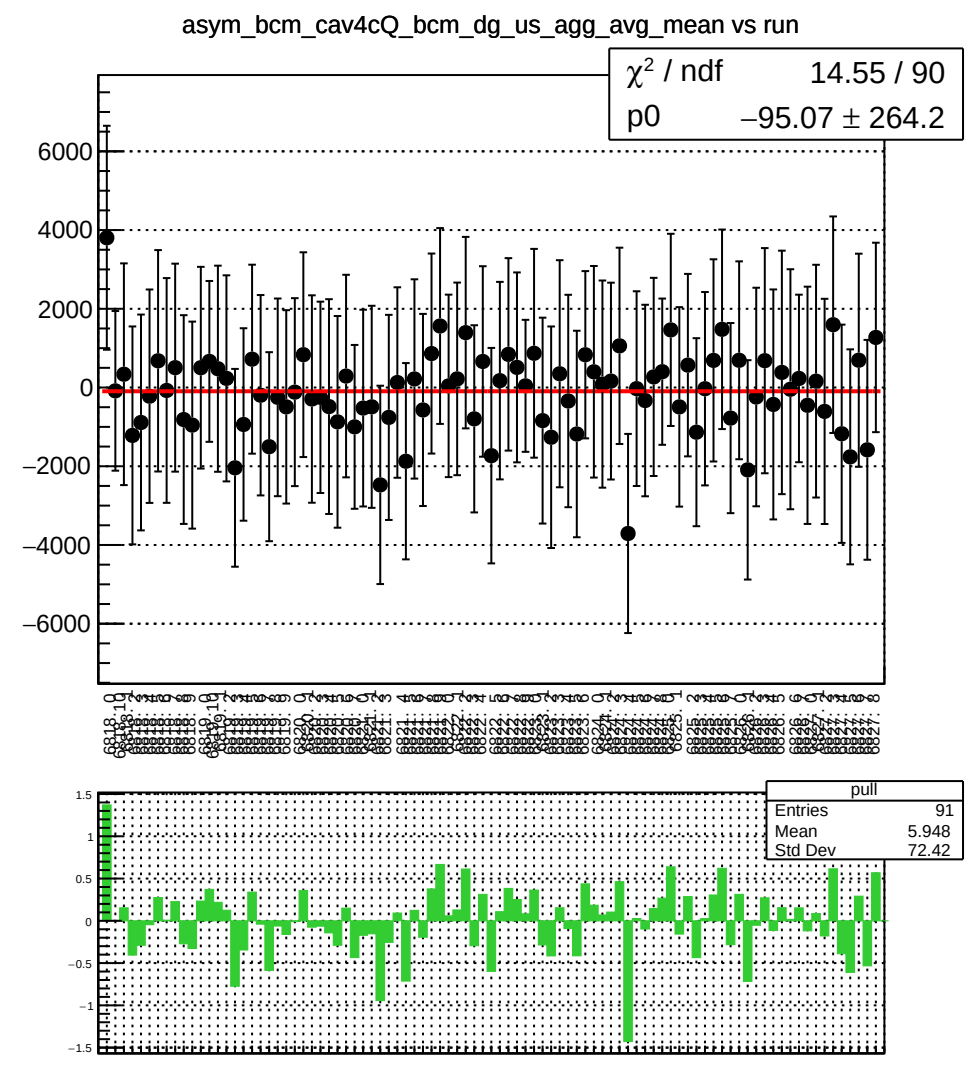

pull1D
Entries 91
Mean −0.004215
Std Dev 0.4027

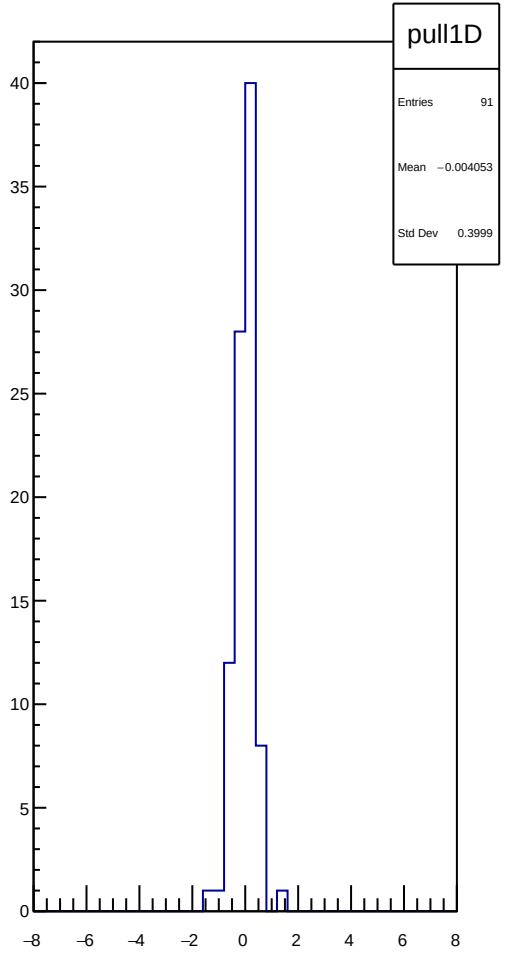

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7346 / 90
p0 243.8 ± 0.1858
300
290
280
270
260
250
240
230
220
210

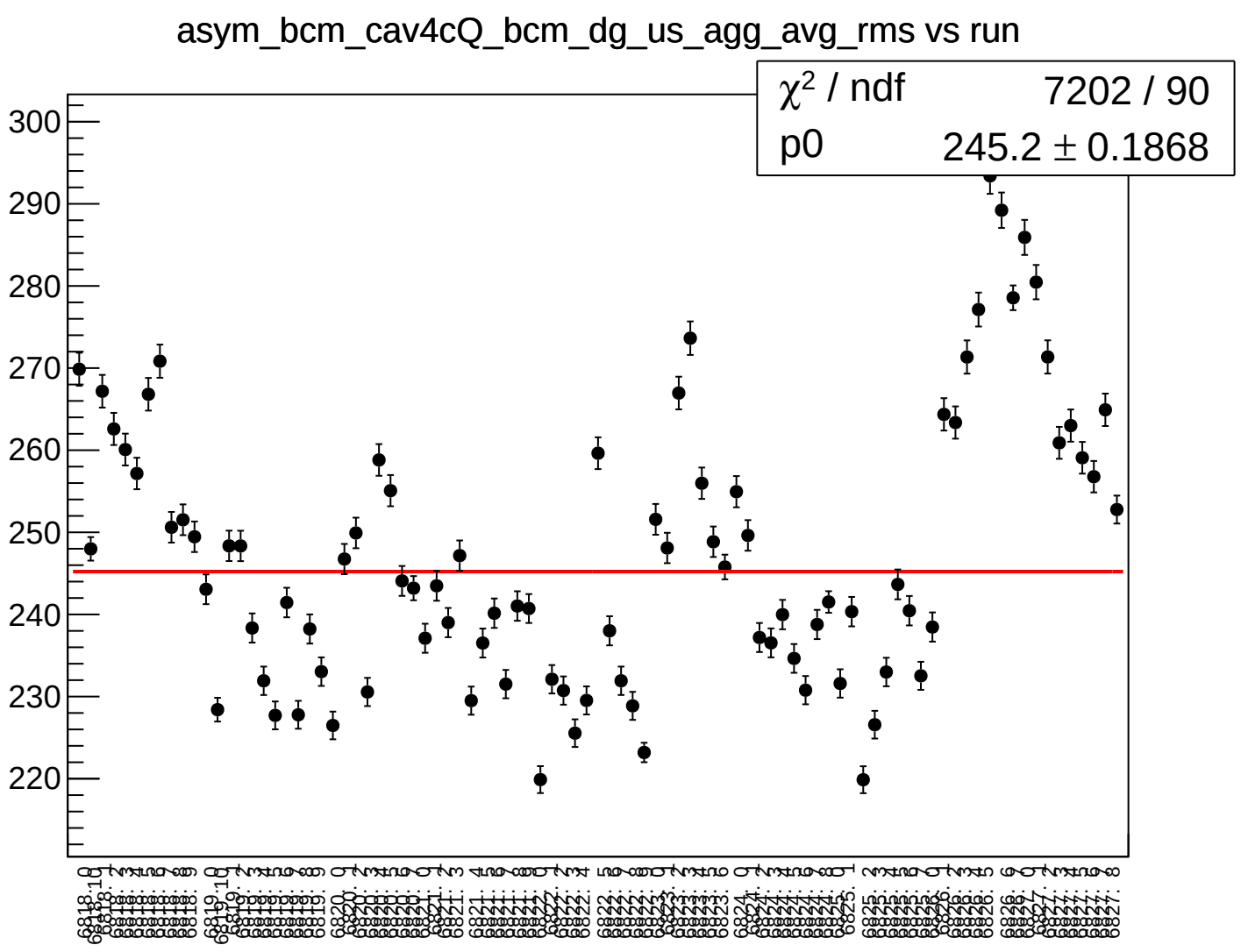

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.38 / 90
p0 −1.094 ± 33.81
pull
Entries 91
Mean 246
Std Dev 193.5

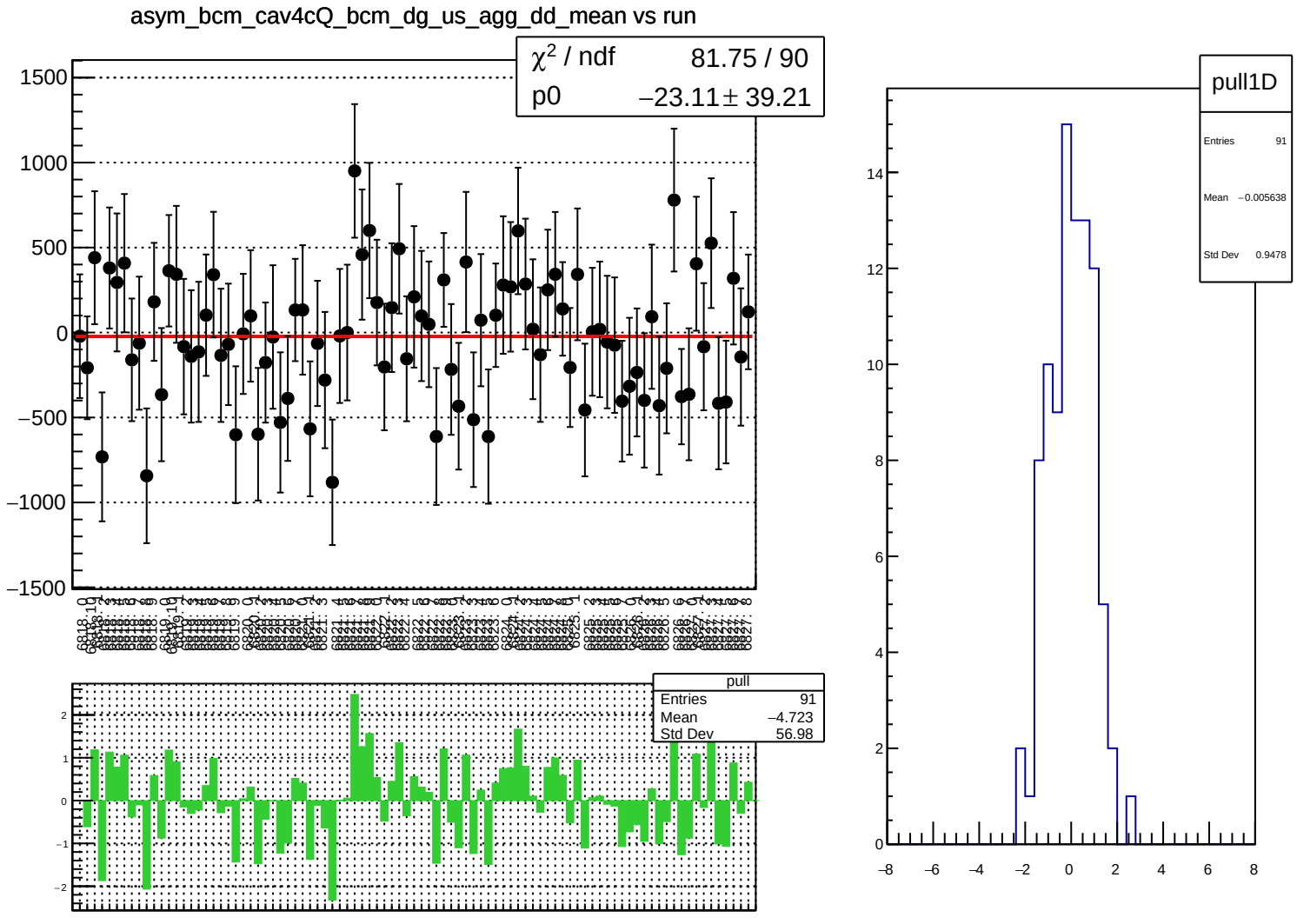

pull1D
Entries 91
Mean −0.007519
Std Dev 0.8979

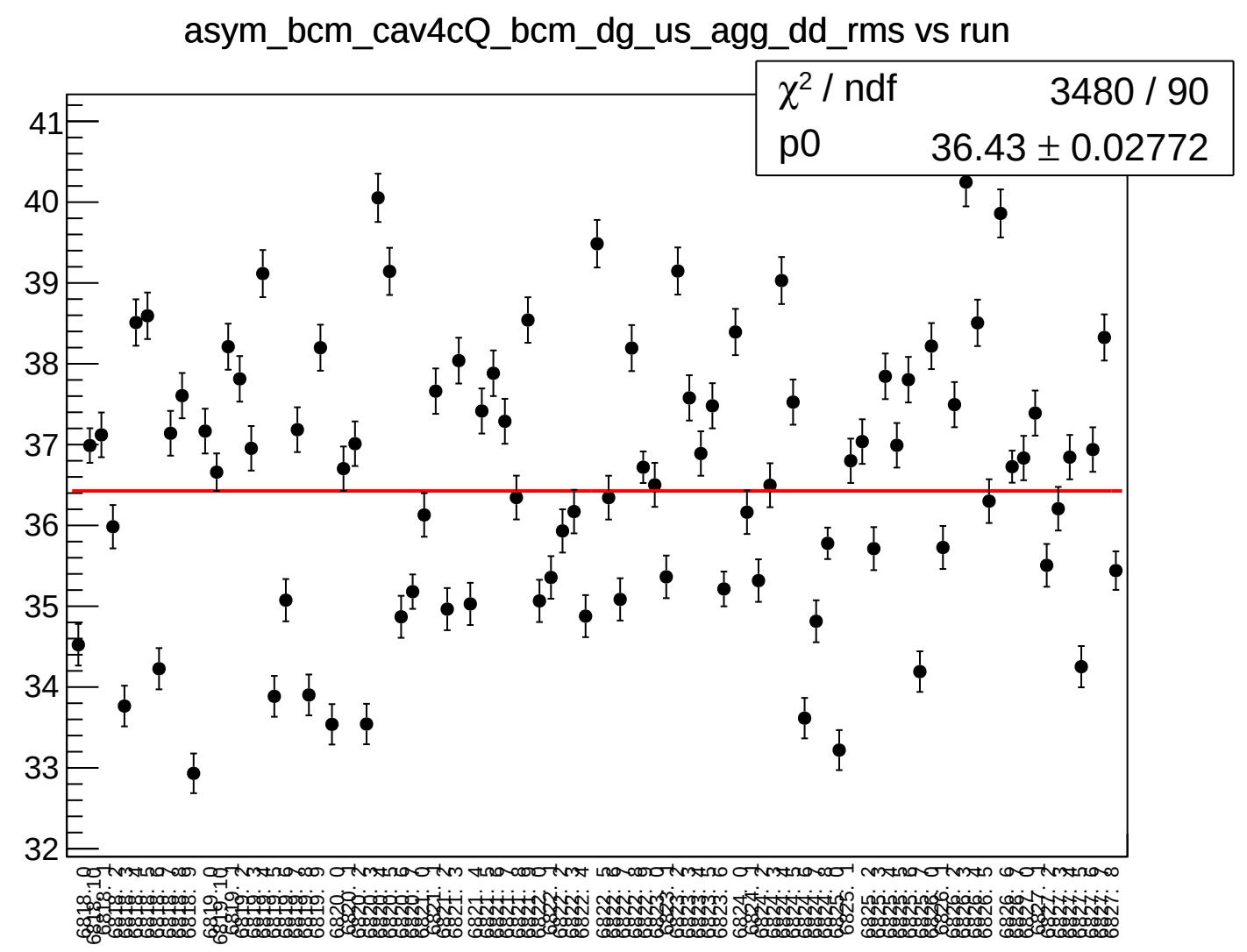

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8563 / 90
p0 31.36 ± 0.02391
36
34
32
30
28
26

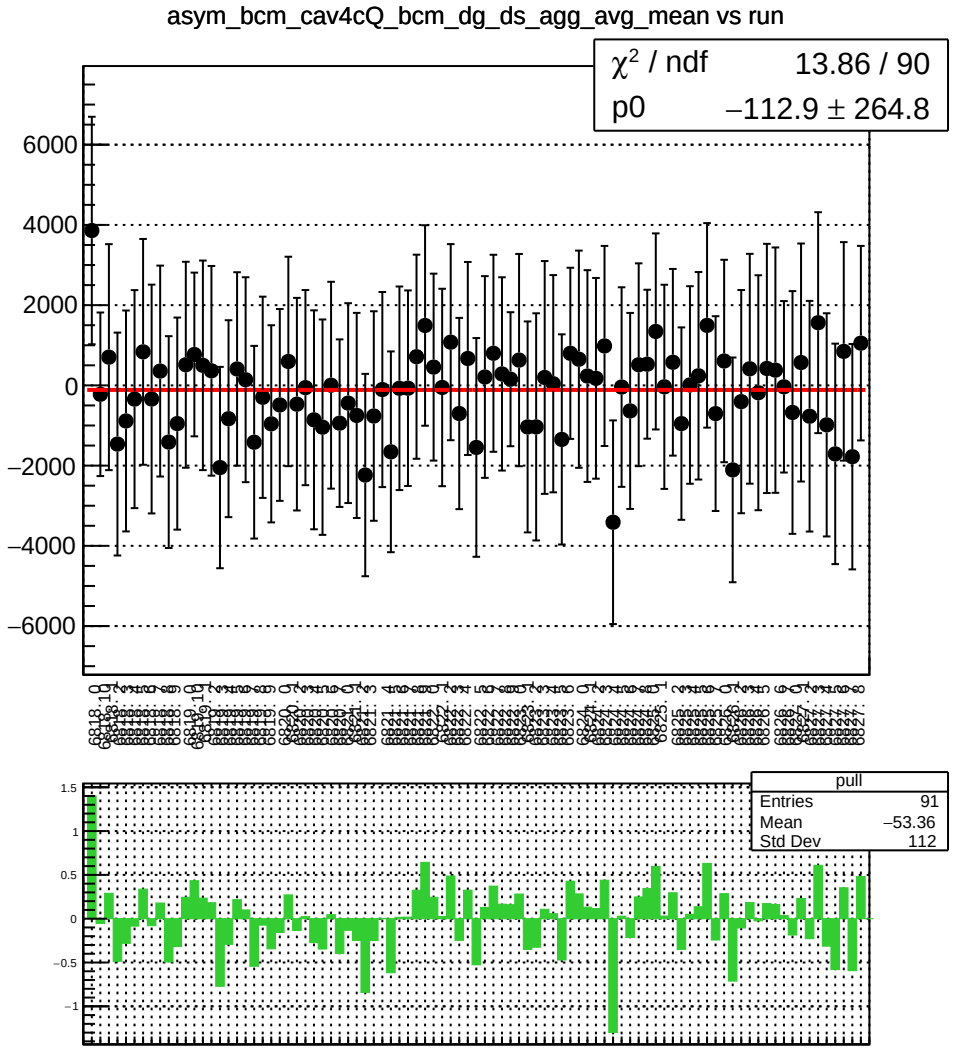

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 14.55 / 90
p0 −95.07 ± 264.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 5.948
Std Dev 72.42
1.5
1
0.5
0
−0.5
−1
−1.5

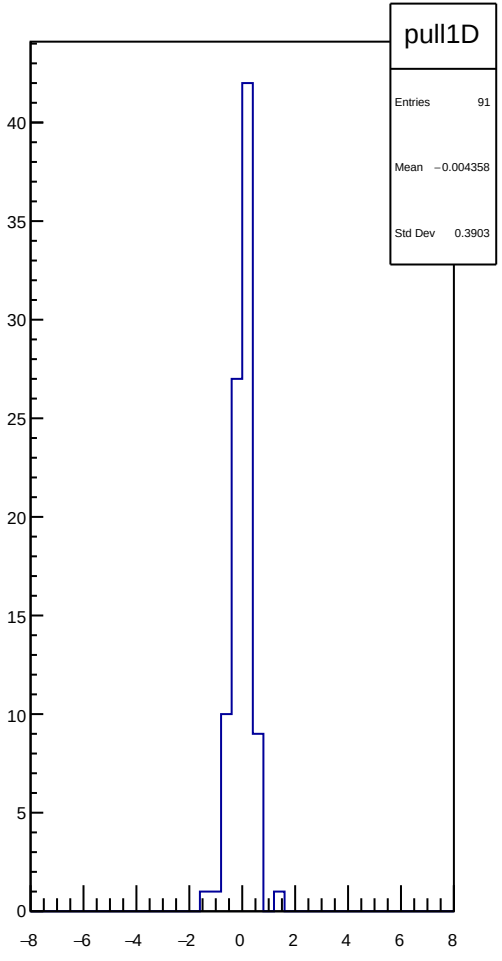

pull1D
Entries 91
Mean −0.004053
Std Dev 0.3999
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

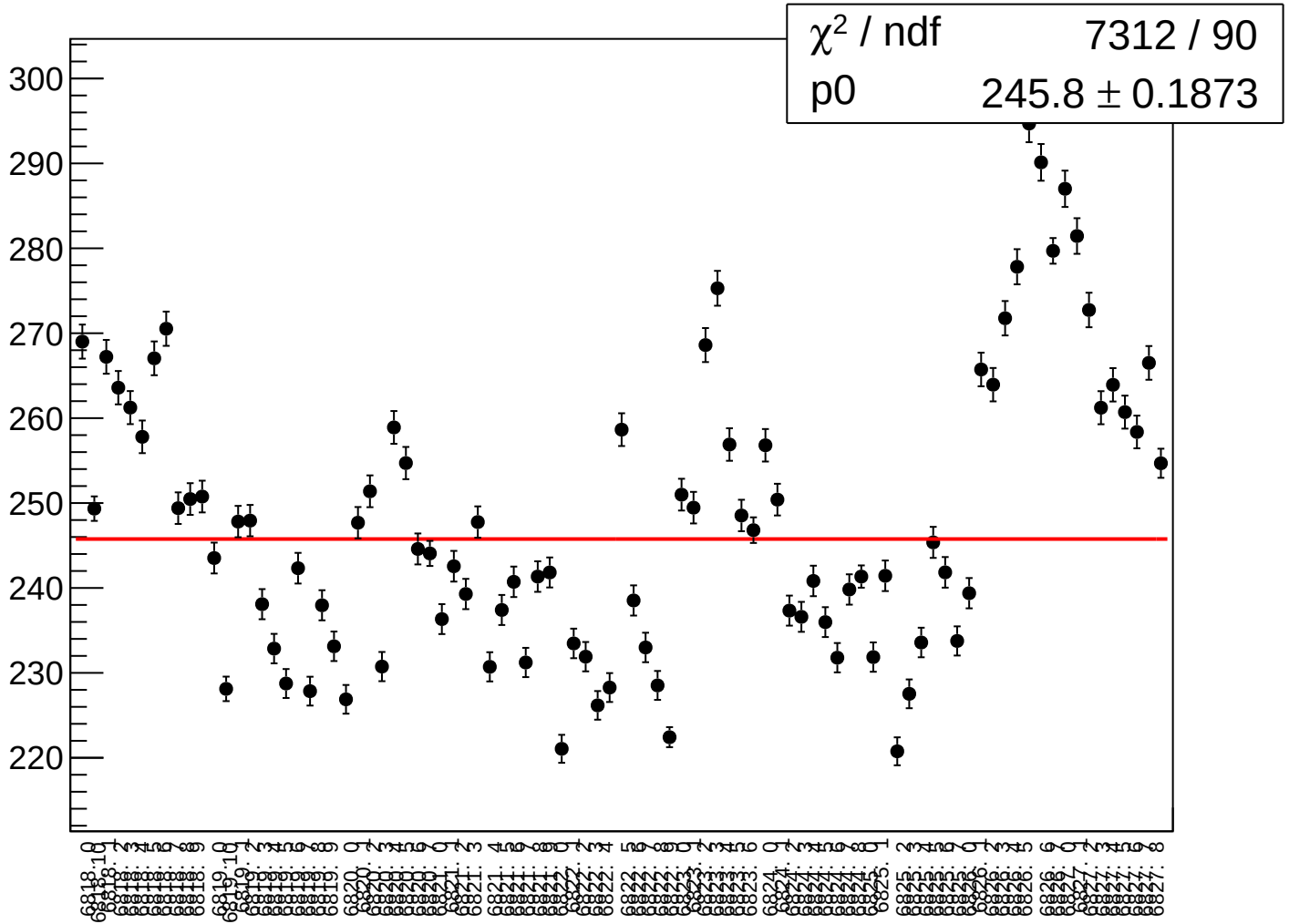

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 7202 / 90
p0 245.2 ± 0.1868
300
290
280
270
260
250
240
230
220

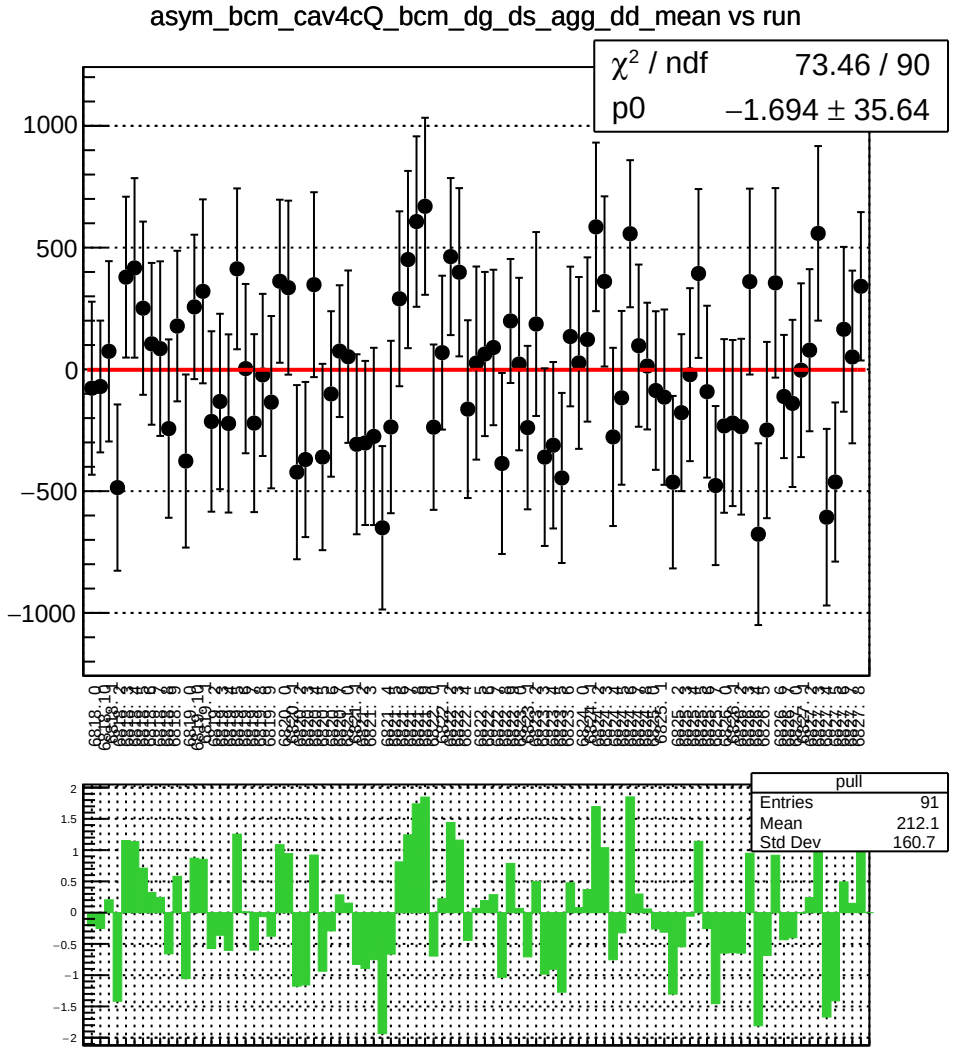

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 81.75 / 90
p0 −23.11 ± 39.21
pull
Entries 91
Mean −4.723
Std Dev 56.98
pull1D
Entries 91
Mean −0.005638
Std Dev 0.9478

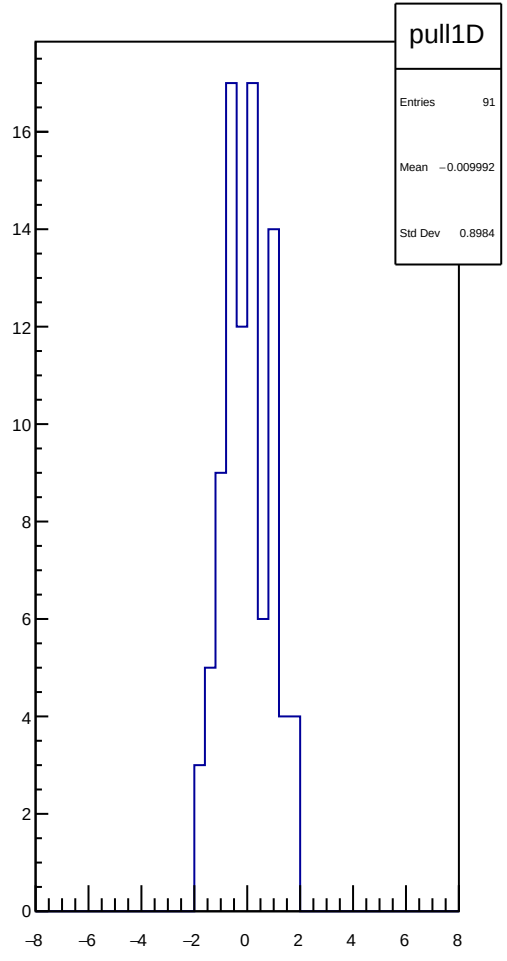

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3480 / 90
p0 36.43 ± 0.02772
41
40
39
38
37
36
35
34
33
32

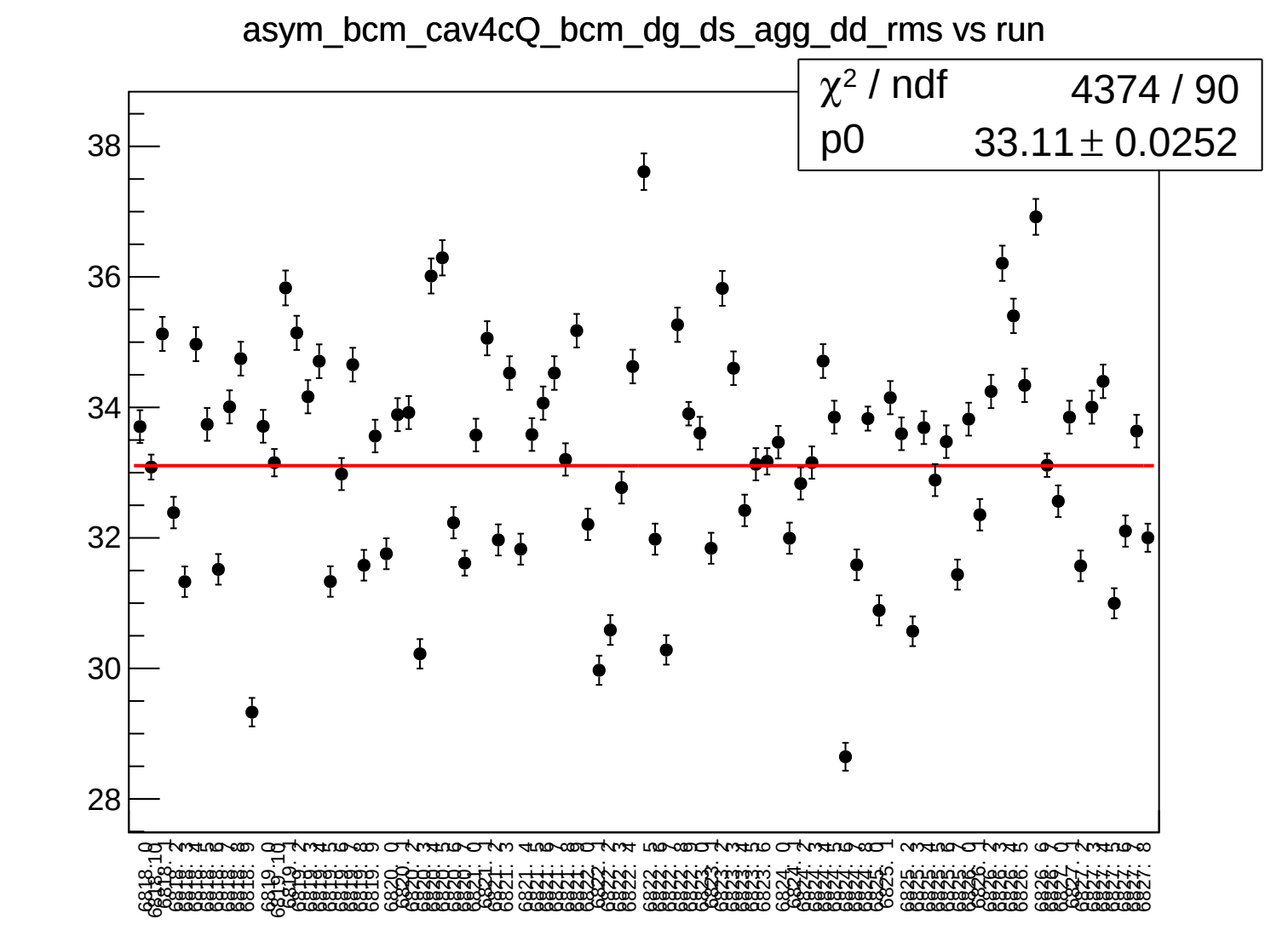

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.86 / 90
p0 −112.9 ± 264.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −53.36
Std Dev 112
1.5
1
0.5
0
−0.5
−1

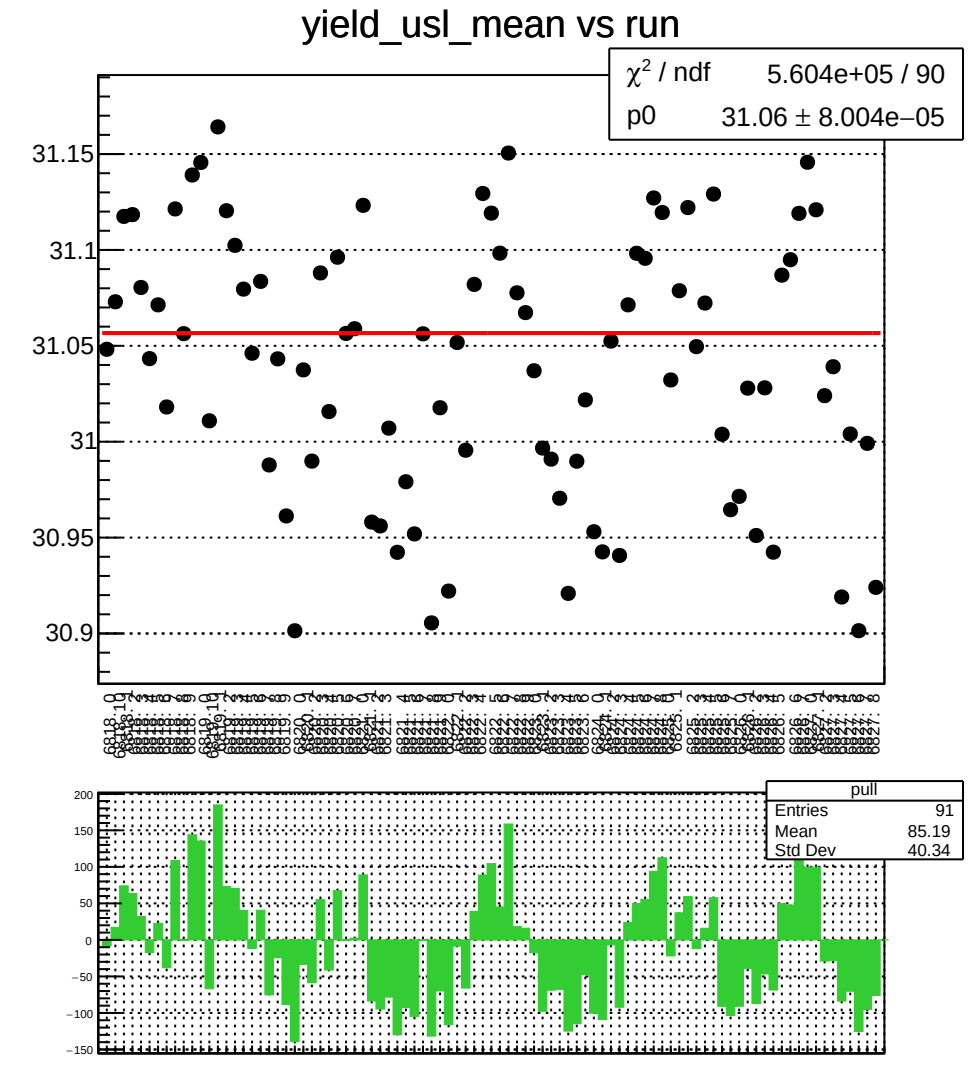

pull1D
Entries 91
Mean −0.004358
Std Dev 0.3903
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

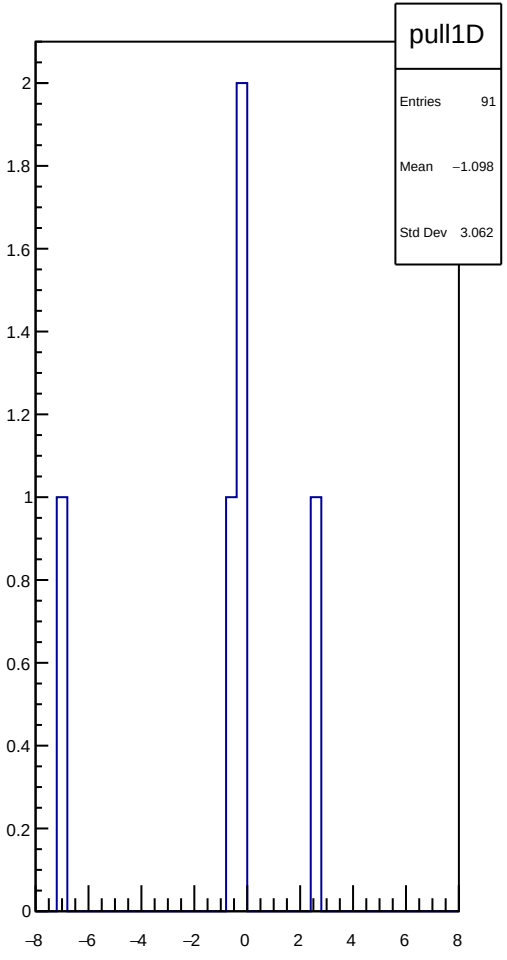

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7312 / 90
p0 245.8 ± 0.1873
300
290
280
270
260
250
240
230
220

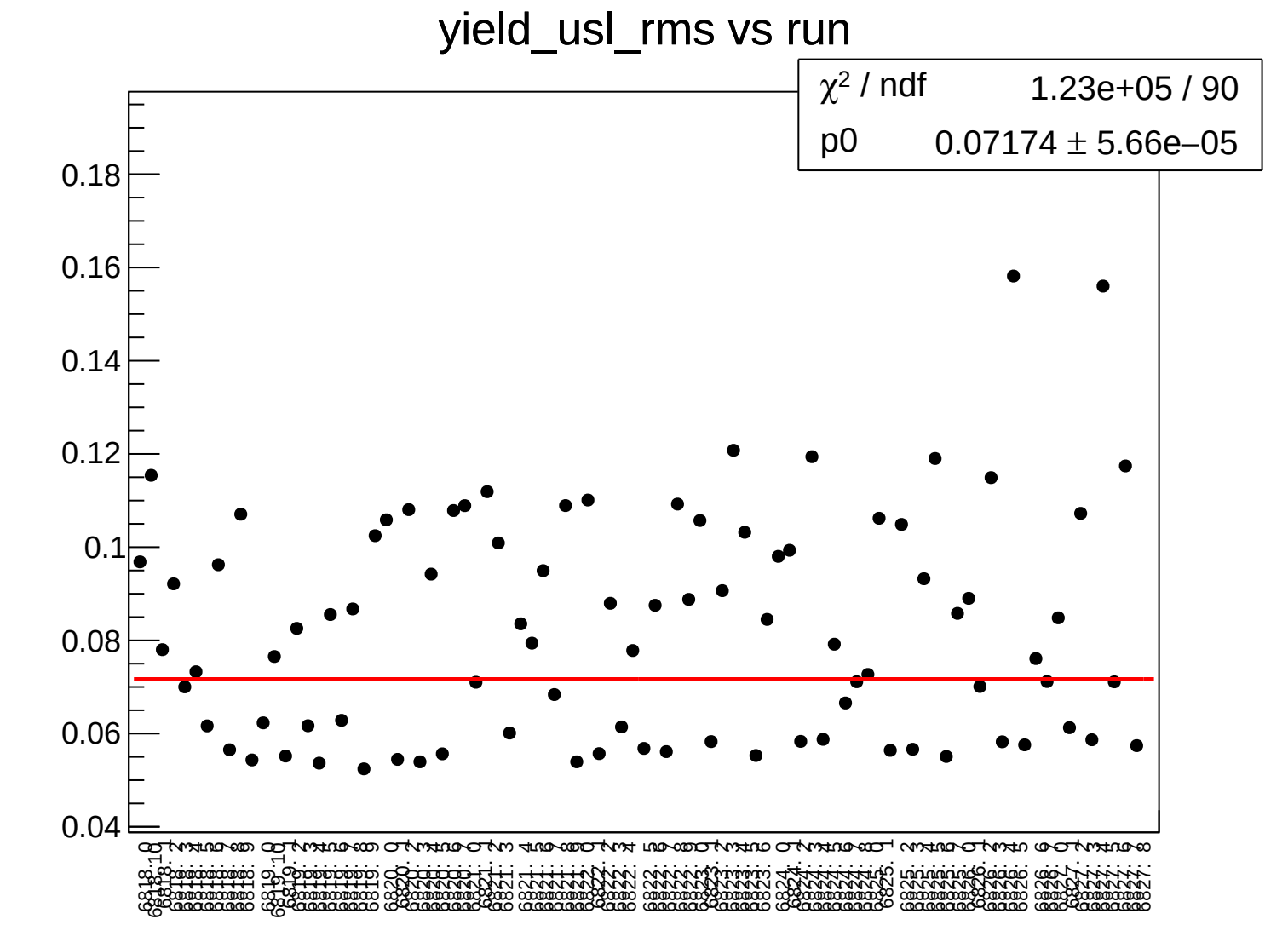

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 73.46 / 90
p0 −1.694 ± 35.64
pull
Entries 91
Mean 212.1
Std Dev 160.7

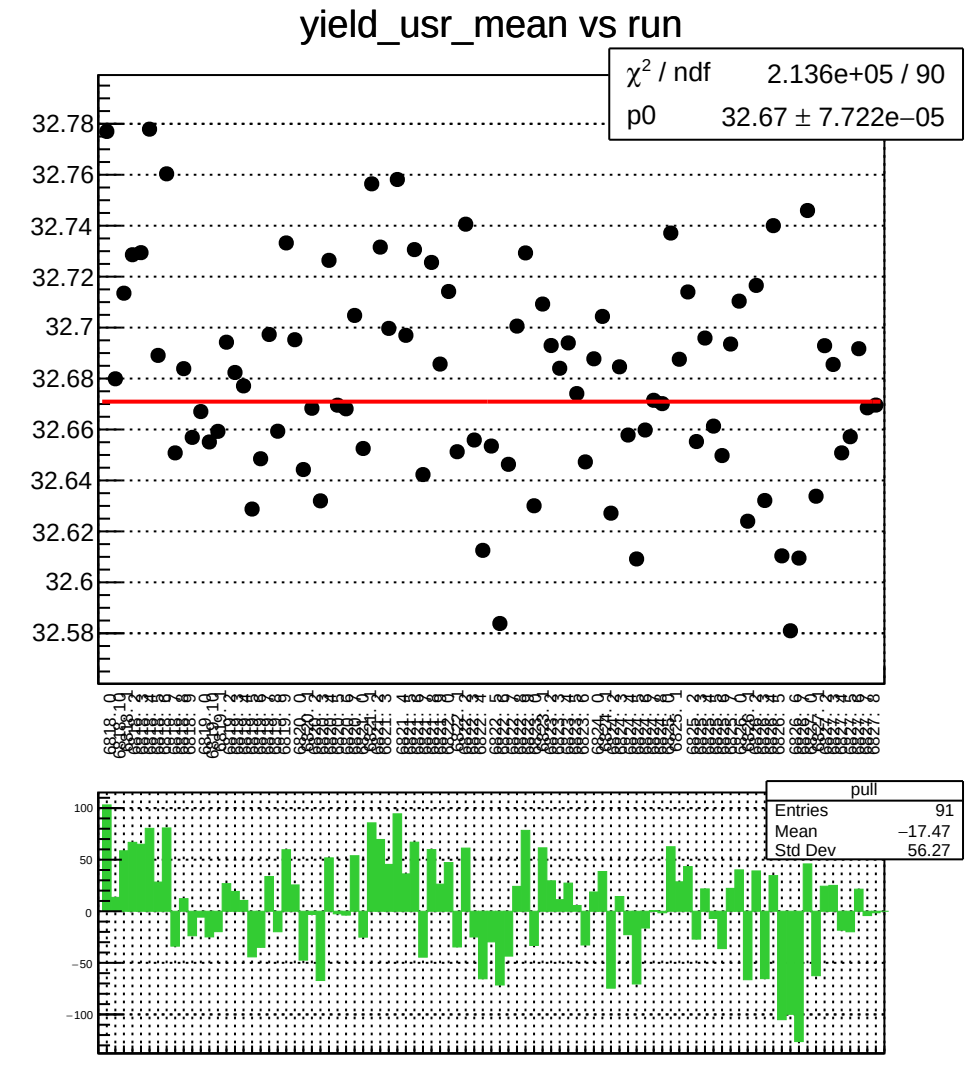

pull1D
Entries 91
Mean −0.009992
Std Dev 0.8984

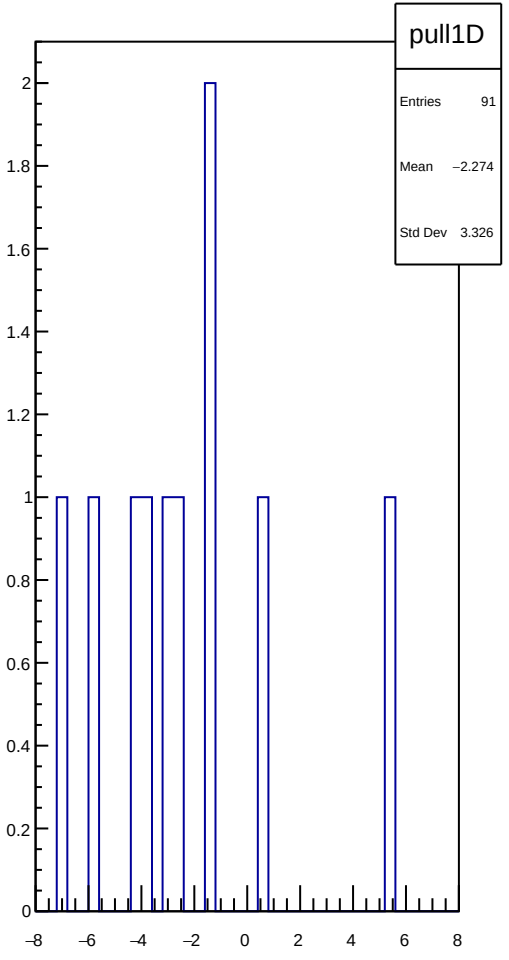

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4374 / 90
p0 33.11 ± 0.0252
38
36
34
32
30
28

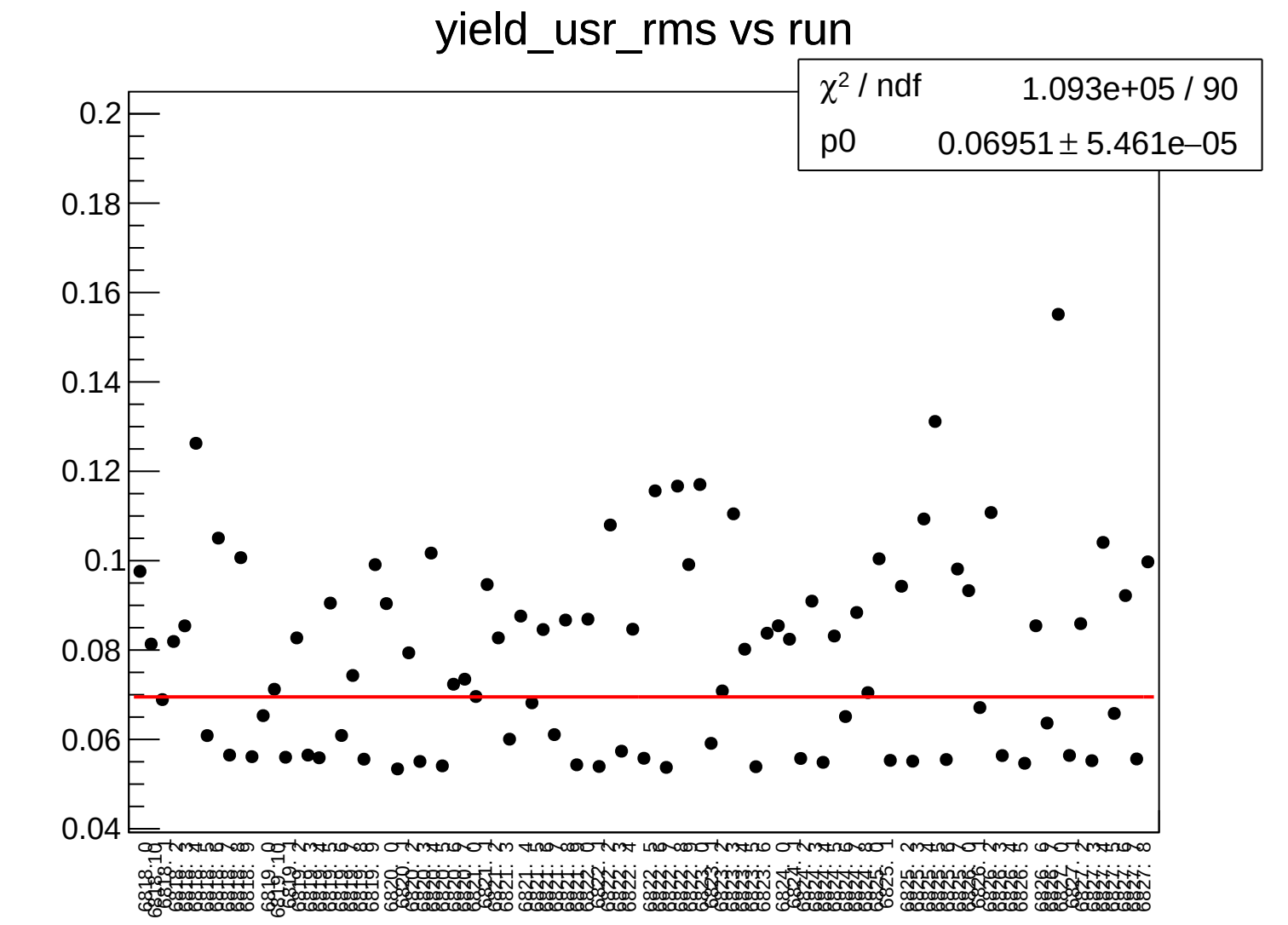

yield_usl_mean vs run
χ² / ndf 5.604e+05 / 90
p0 31.06 ± 8.004e−05
31.15
31.1
31.05
31
30.95
30.9
pull
Entries 91
Mean 85.19
Std Dev 40.34
200
150
100
50
0
−50
−100
−150

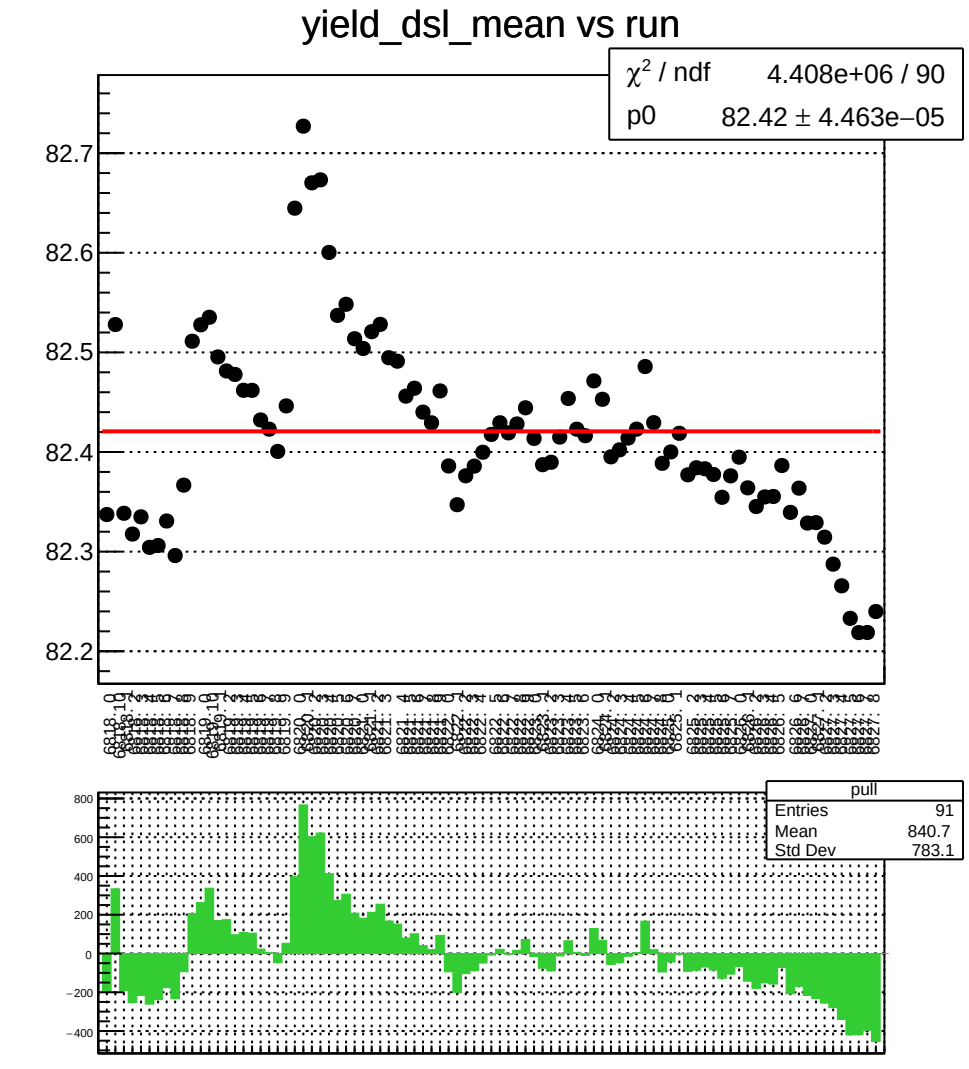

pull1D
Entries 91
Mean −1.098
Std Dev 3.062
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

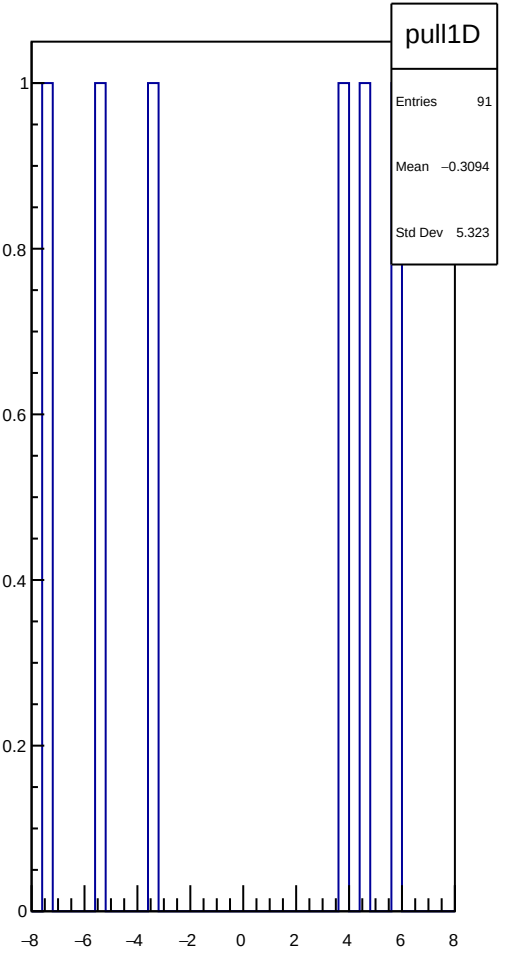

yield_usl_rms vs run
χ² / ndf 1.23e+05 / 90
p0 0.07174 ± 5.66e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

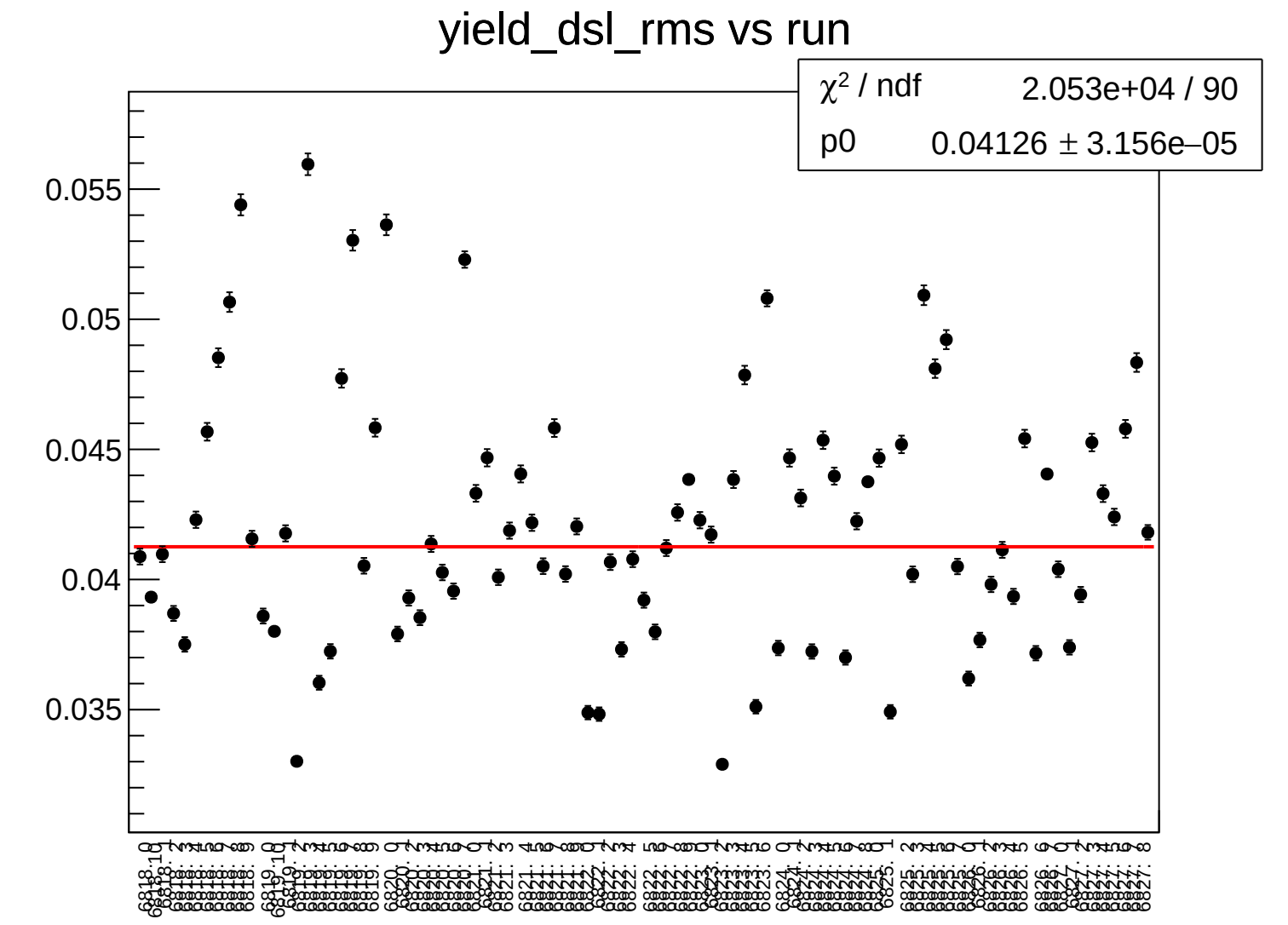

yield_usr_mean vs run
χ² / ndf 2.136e+05 / 90
p0 32.67 ± 7.722e−05
32.78
32.76
32.74
32.72
32.7
32.68
32.66
32.64
32.62
32.6
32.58
pull
Entries 91
Mean −17.47
Std Dev 56.27
100
50
0
−50
−100

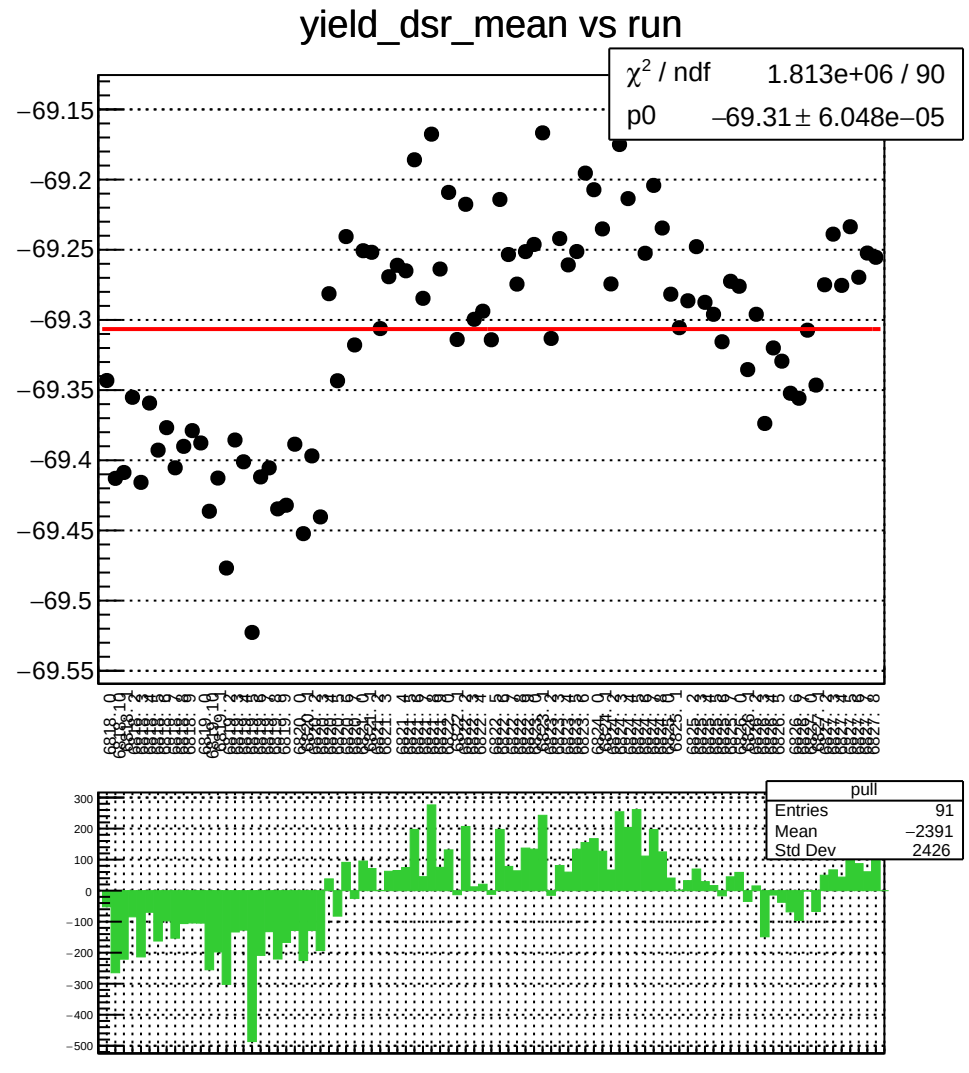

pull1D
Entries 91
Mean −2.274
Std Dev 3.326
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

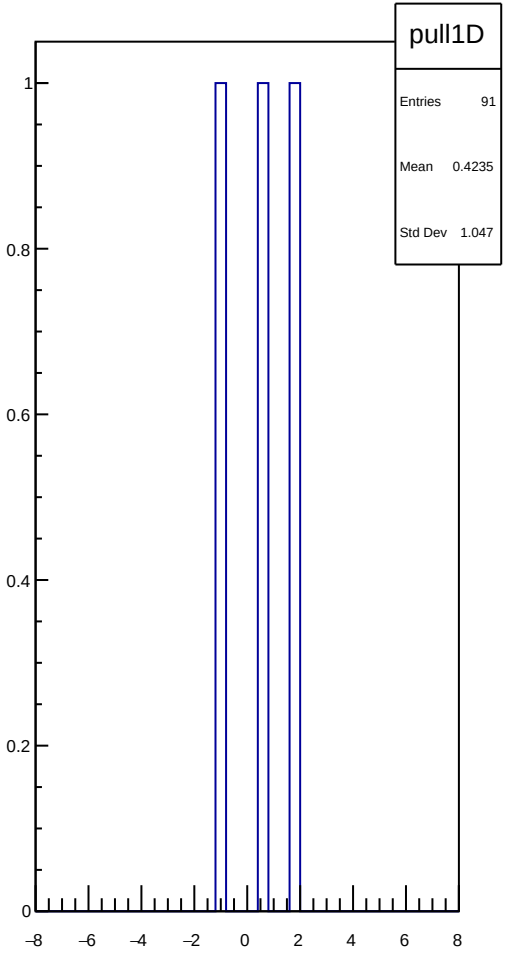

yield_usr_rms vs run
χ² / ndf 1.093e+05 / 90
p0 0.06951 ± 5.461e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

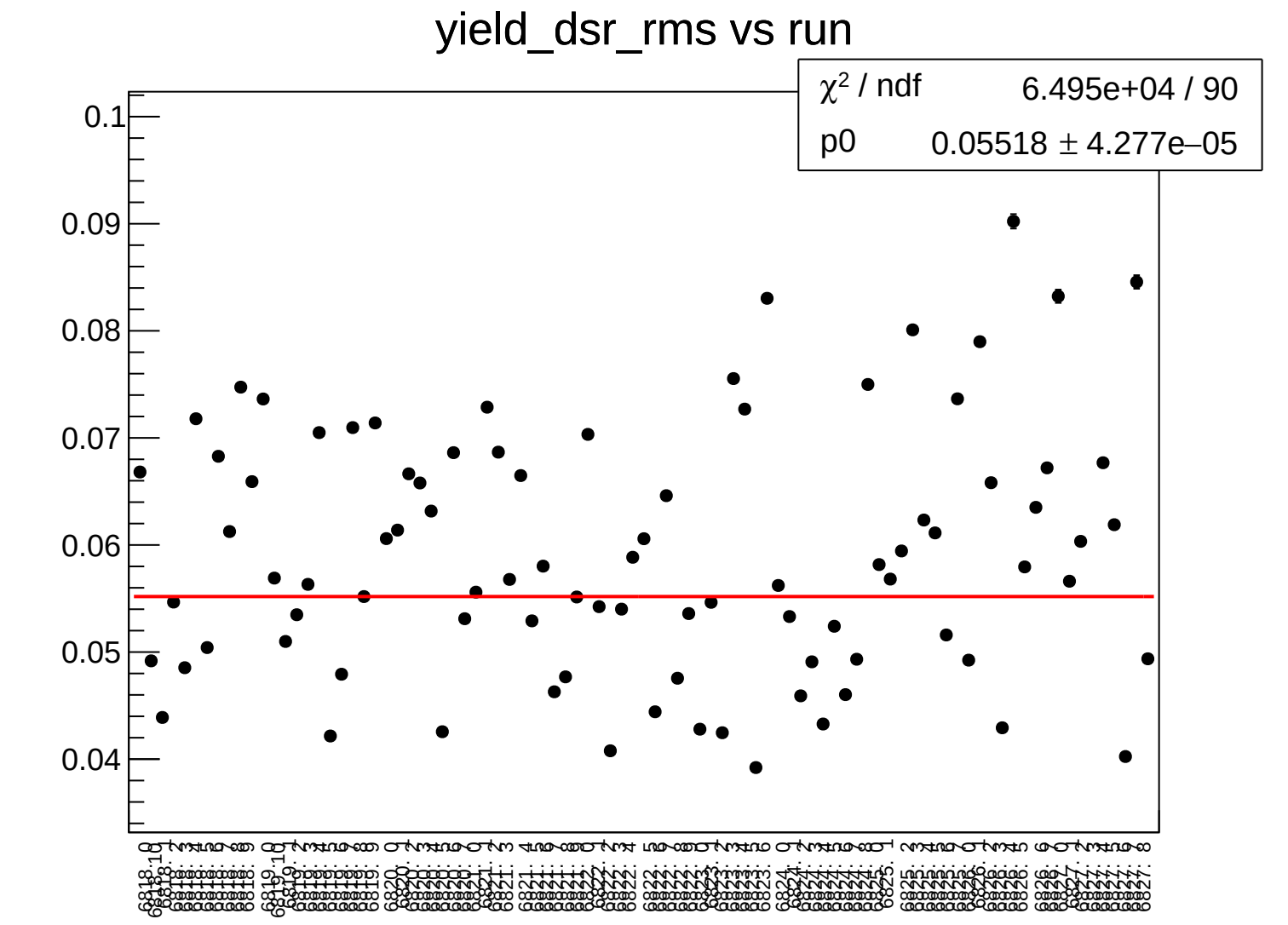

yield_dsl_mean vs run
χ² / ndf 4.408e+06 / 90
p0 82.42 ± 4.463e−05
82.7
82.6
82.5
82.4
82.3
82.2
pull
Entries 91
Mean 840.7
Std Dev 783.1
800
600
400
200
0
−200
−400

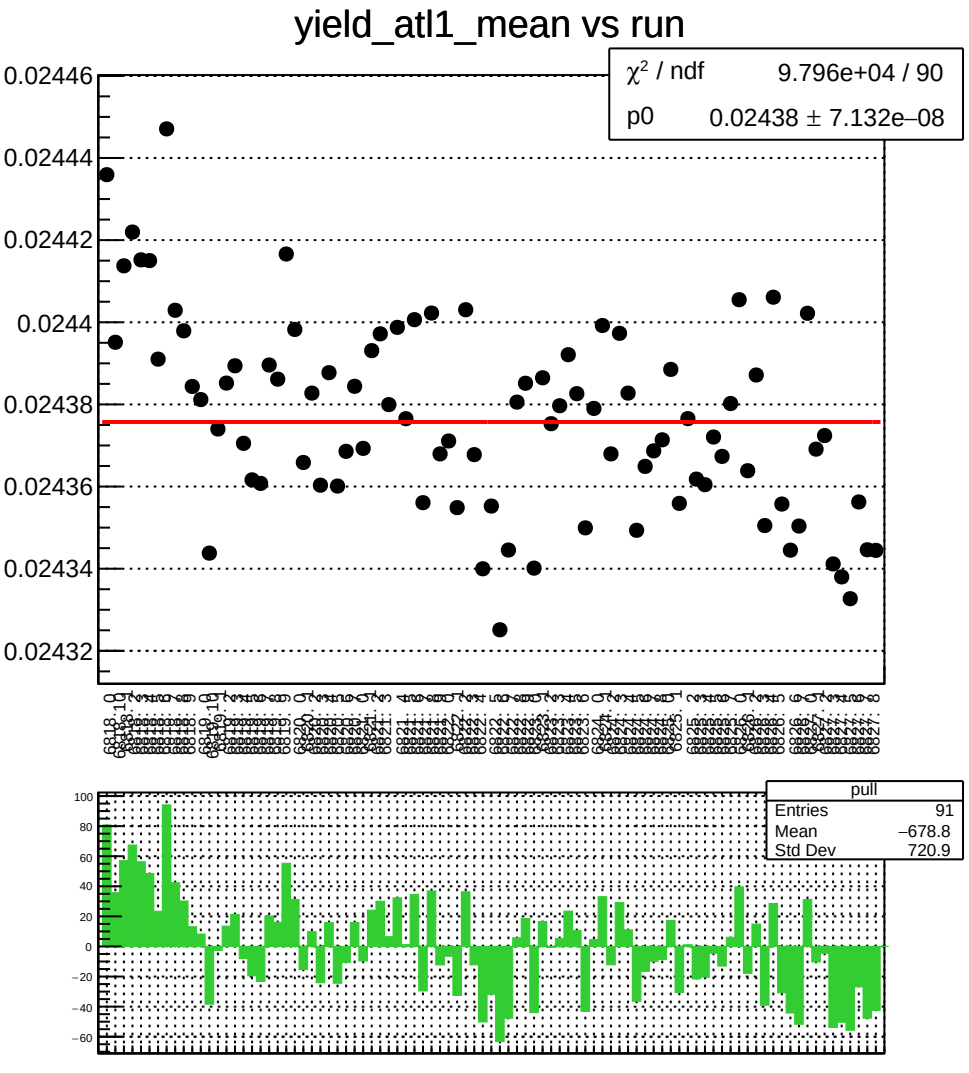

pull1D
Entries 91
Mean −0.3094
Std Dev 5.323
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

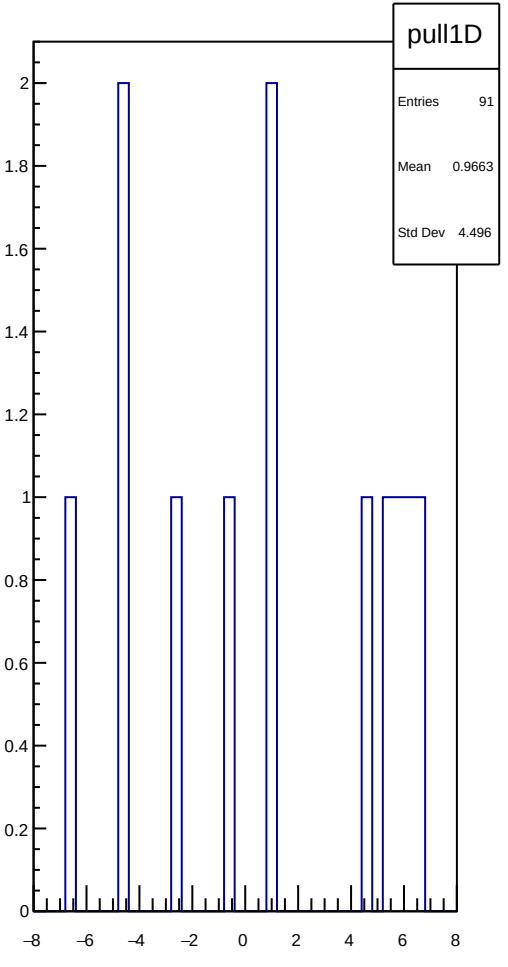

yield_dsl_rms vs run
χ² / ndf 2.053e+04 / 90
p0 0.04126 ± 3.156e–05
0.055
0.05
0.045
0.04
0.035

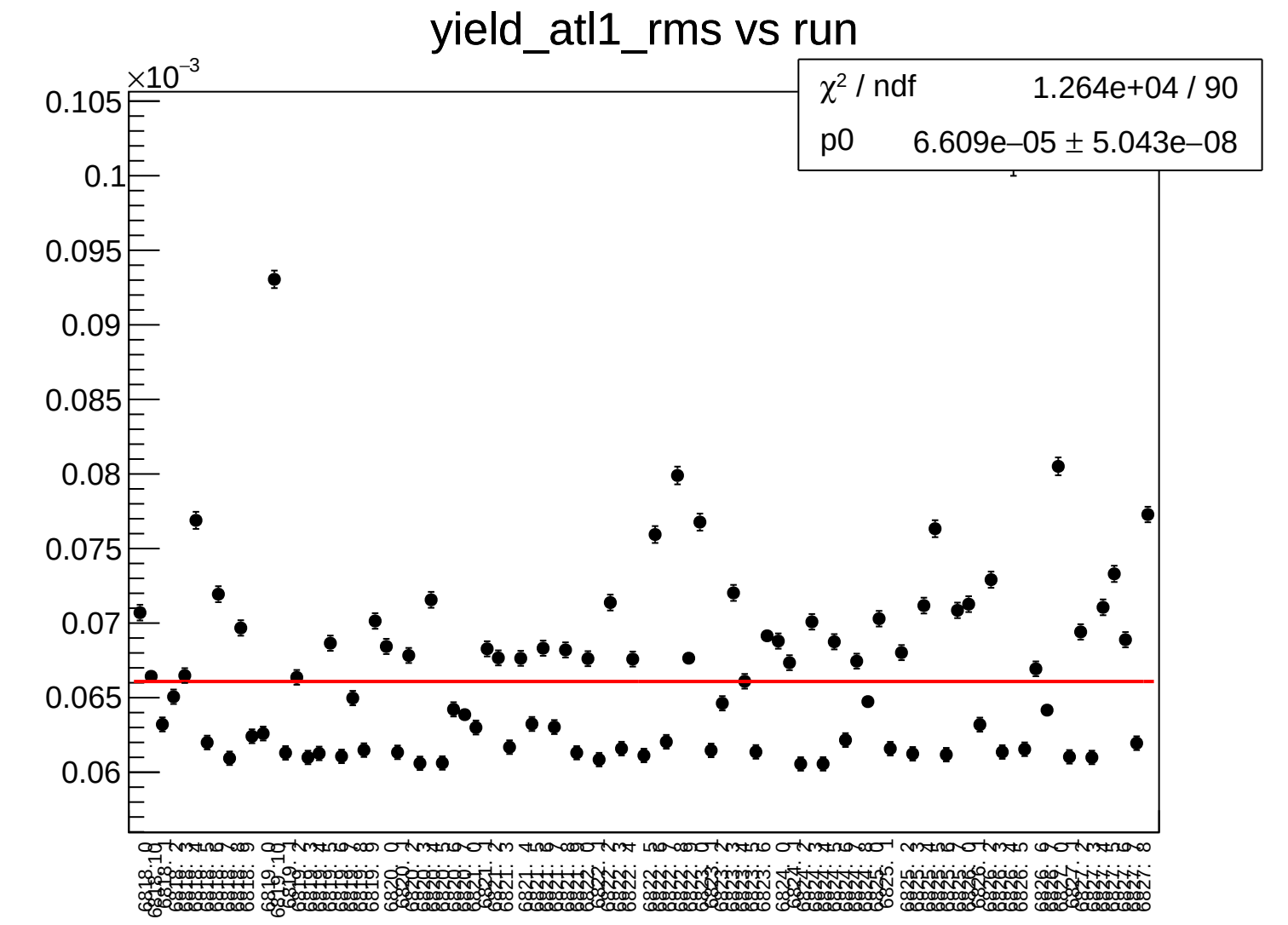

yield_dsr_mean vs run
χ² / ndf 1.813e+06 / 90
p0 −69.31 ± 6.048e−05
−69.15
−69.2
−69.25
−69.3
−69.35
−69.4
−69.45
−69.5
−69.55
pull
Entries 91
Mean −2391
Std Dev 2426
300
200
100
0
−100
−200
−300
−400
−500

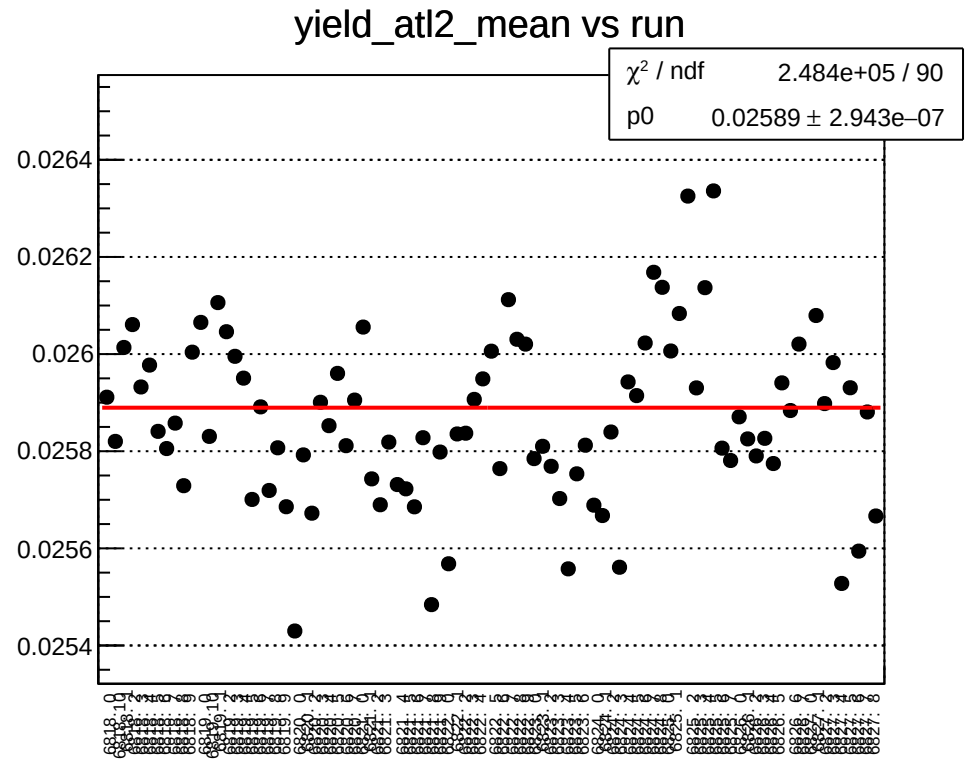

pull1D
Entries 91
Mean 0.4235
Std Dev 1.047
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

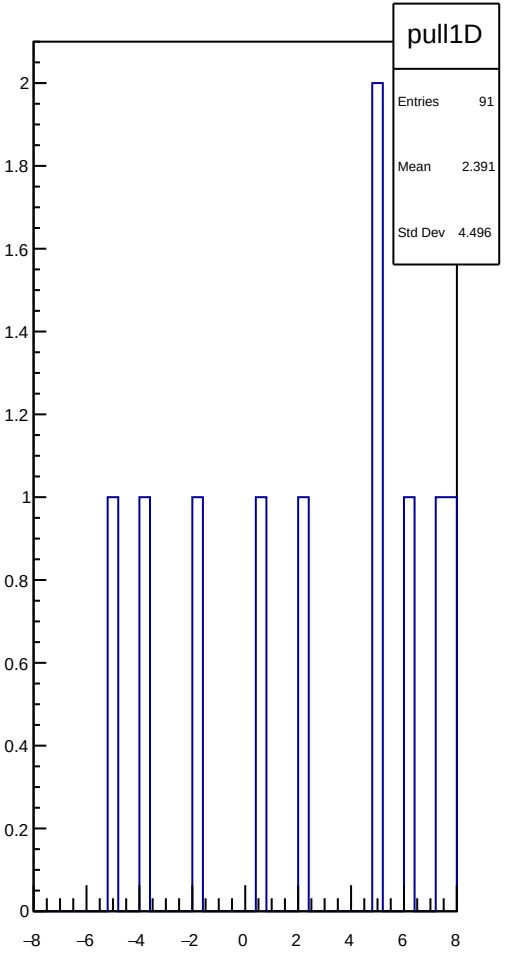

yield_dsr_rms vs run
χ² / ndf 6.495e+04 / 90
p0 0.05518 ± 4.277e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

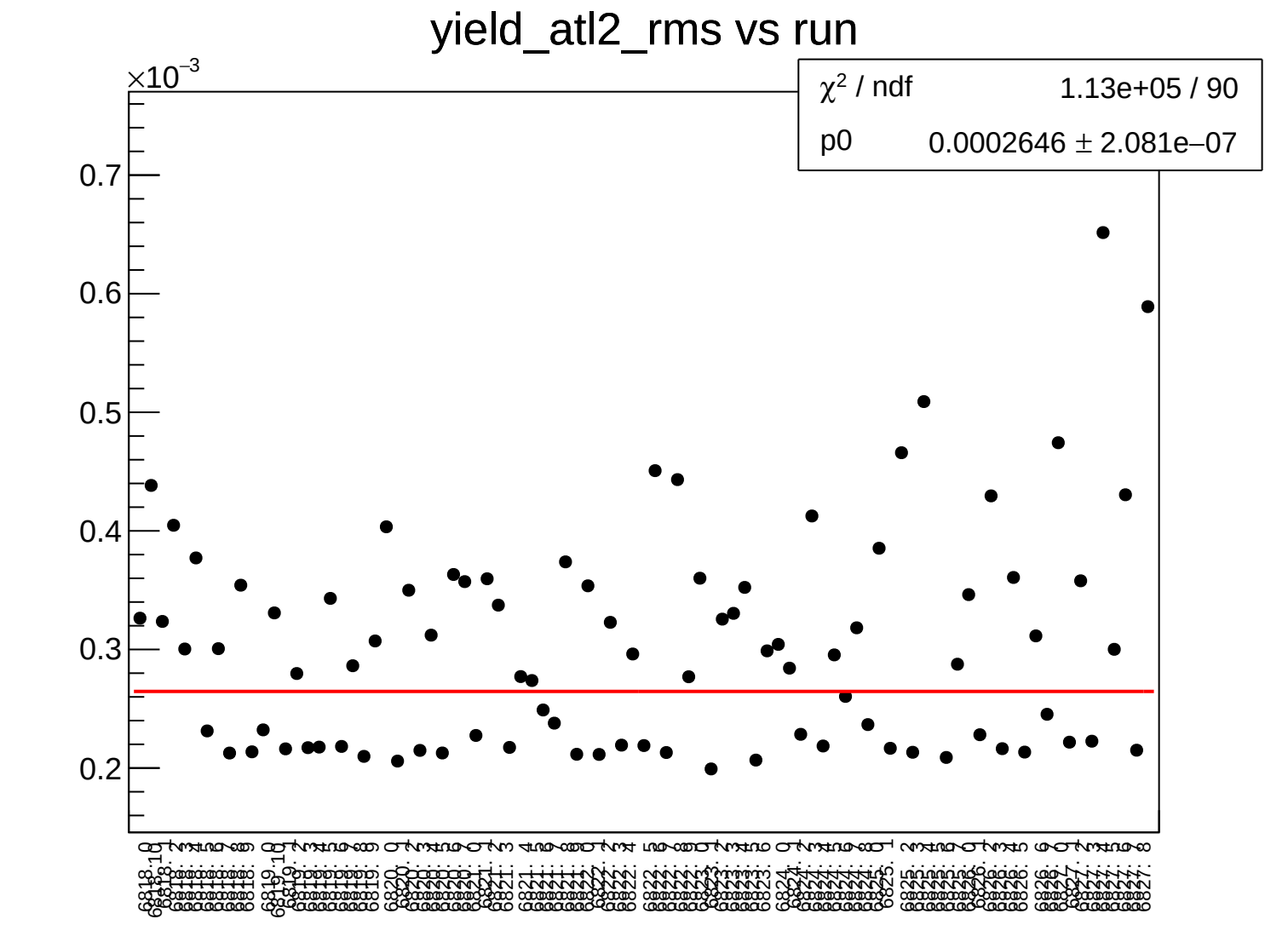

yield_atl1_mean vs run
χ² / ndf 9.796e+04 / 90
p0 0.02438 ± 7.132e−08
0.02446
0.02444
0.02442
0.0244
0.02438
0.02436
0.02434
0.02432
pull
Entries 91
Mean −678.8
Std Dev 720.9
100
80
60
40
20
0
−20
−40
−60

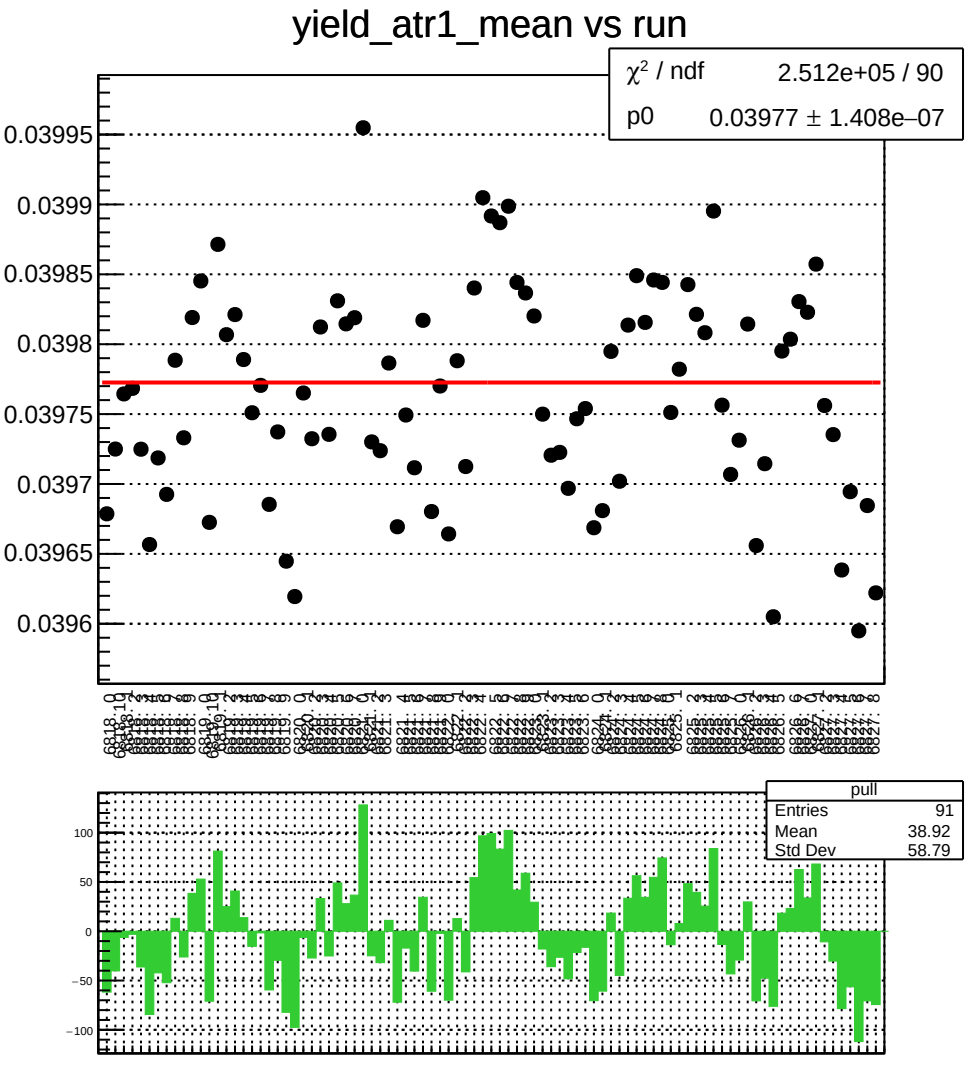

pull1D
Entries 91
Mean 0.9663
Std Dev 4.496
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

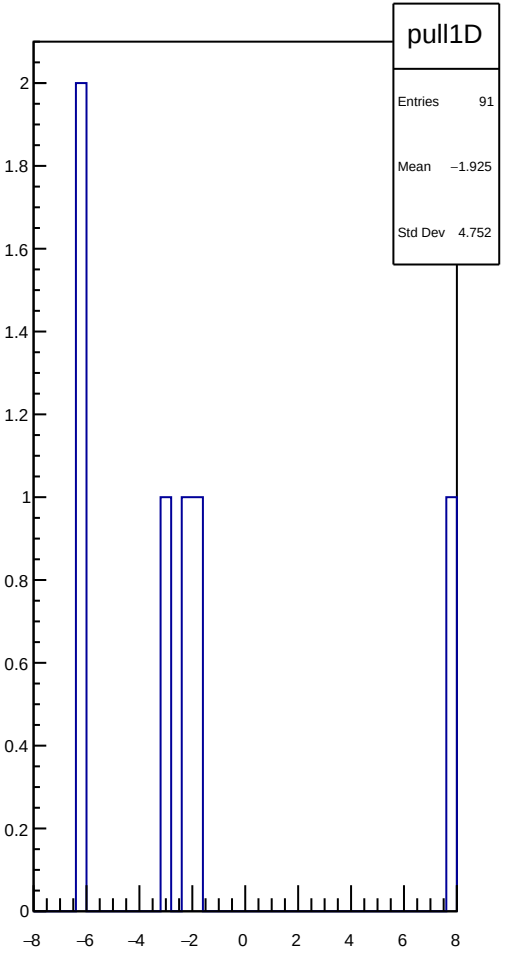

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.264e+04 / 90
p0 6.609e−05 ± 5.043e−08
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06

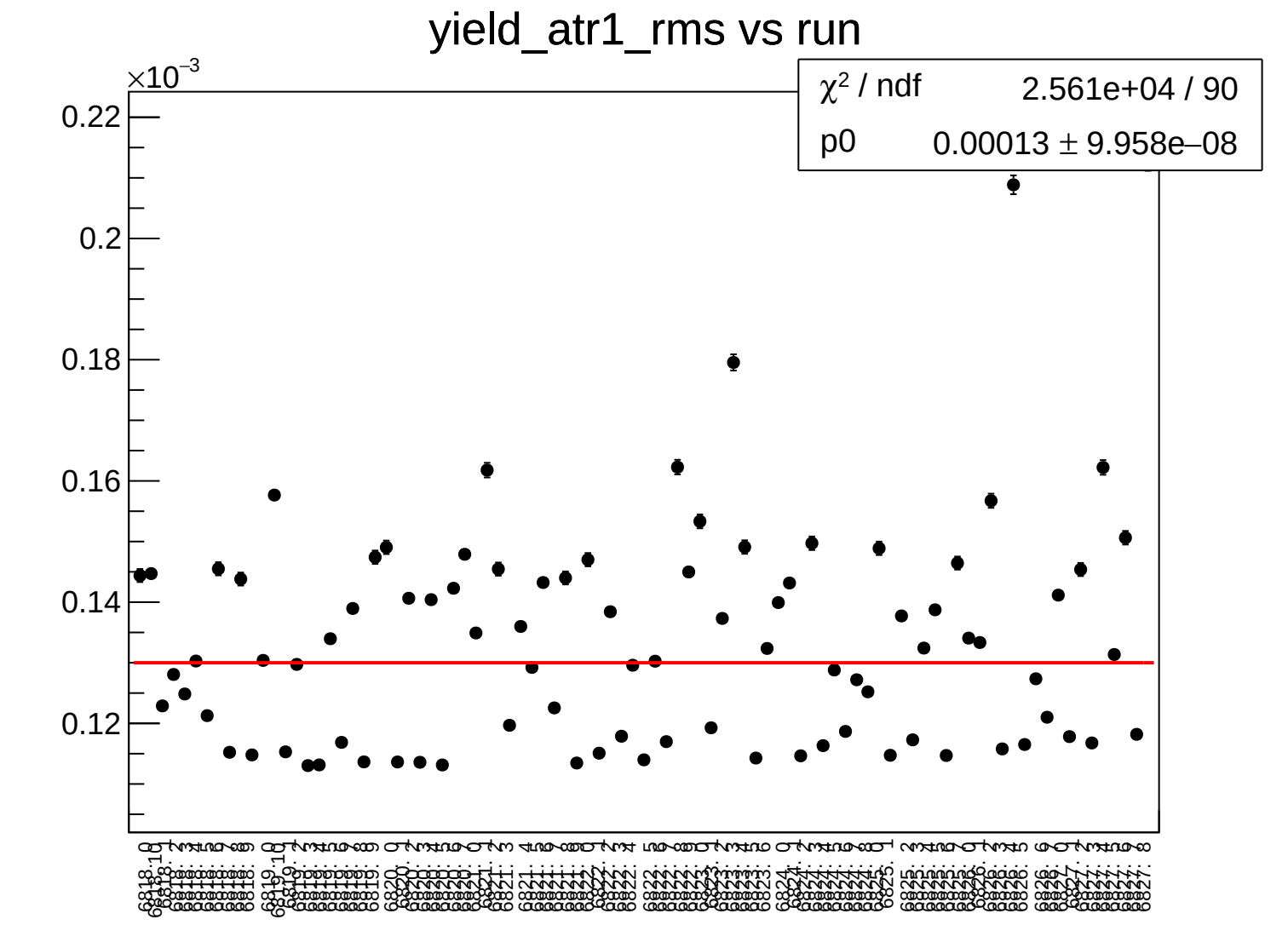

yield_atl2_mean vs run
χ² / ndf 2.484e+05 / 90
p0 0.02589 ± 2.943e–07
0.0264
0.0262
0.026
0.0258
0.0256
0.0254
pull
Entries 91
Mean 11.34
Std Dev 46.12
100
50
0
−50
−100

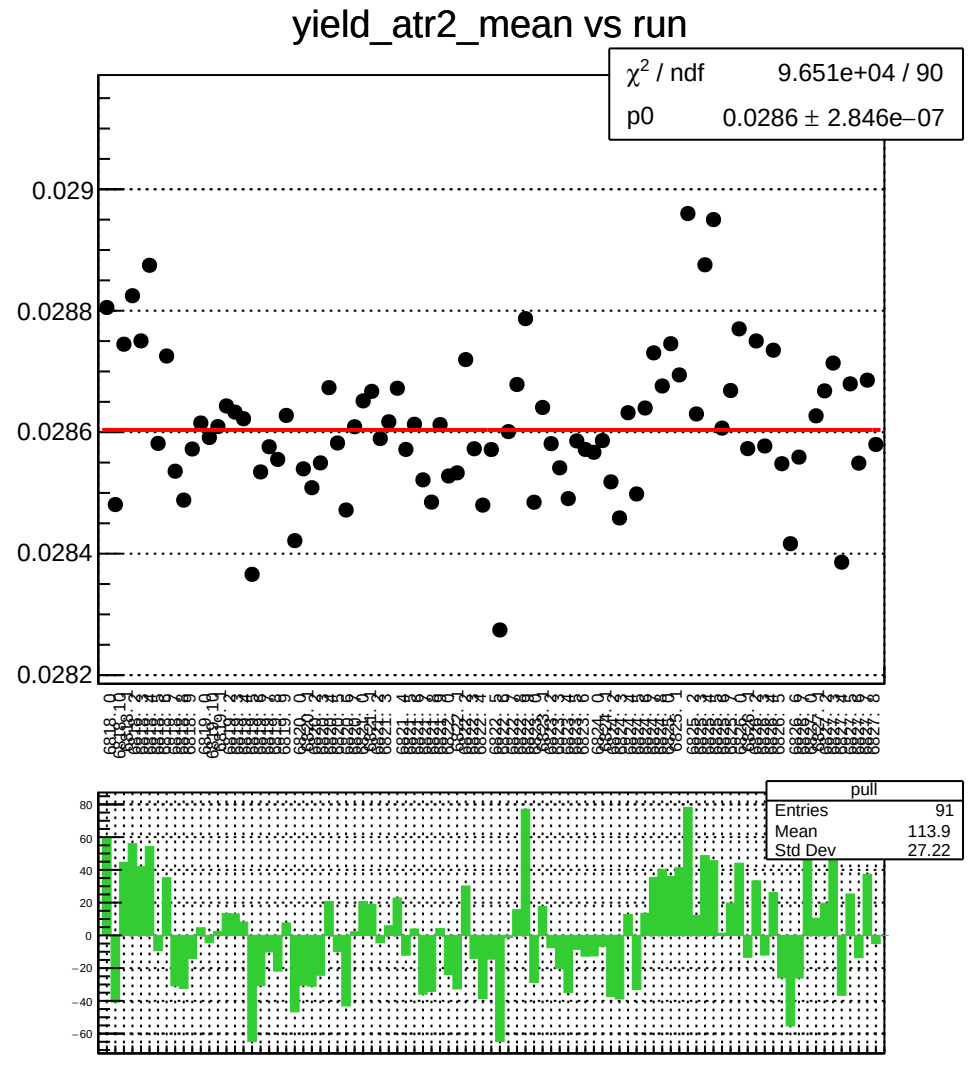

pull1D
Entries 91
Mean 2.391
Std Dev 4.496
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

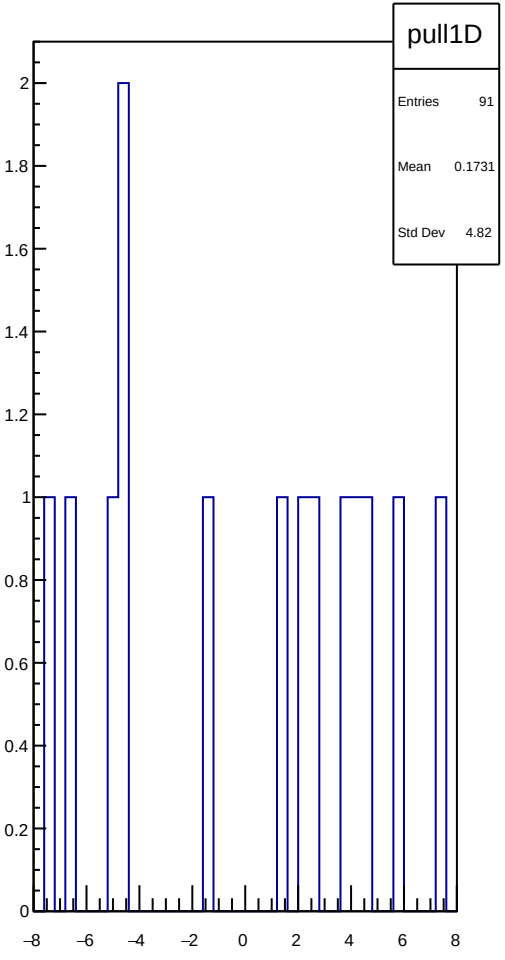

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.13e+05 / 90
p0 0.0002646 ± 2.081e−07
0.7
0.6
0.5
0.4
0.3
0.2

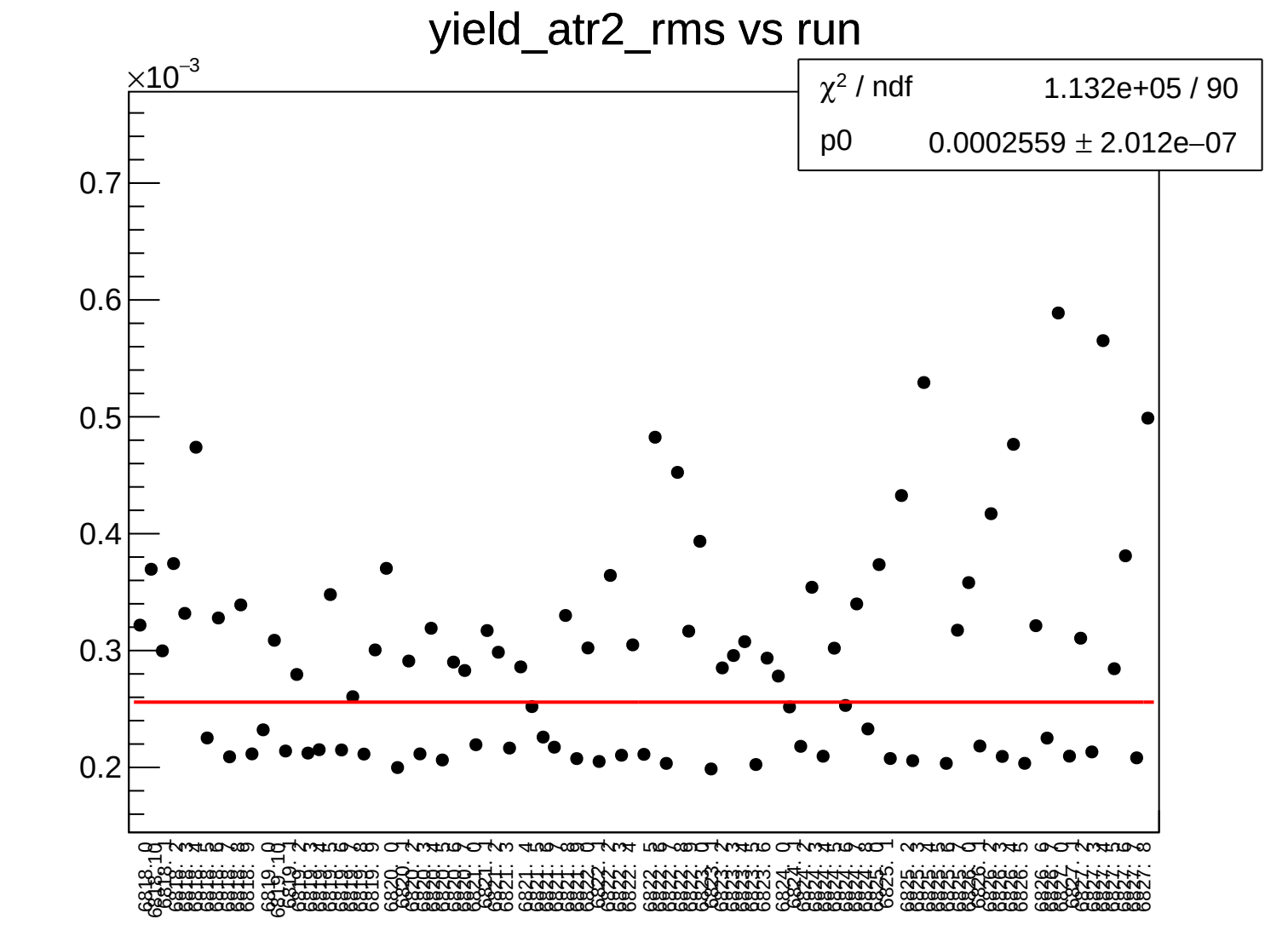

yield_atr1_mean vs run
χ² / ndf 2.512e+05 / 90
p0 0.03977 ± 1.408e−07
0.03995
0.0399
0.03985
0.0398
0.03975
0.0397
0.03965
0.0396
pull
Entries 91
Mean 38.92
Std Dev 58.79
100
50
0
−50
−100

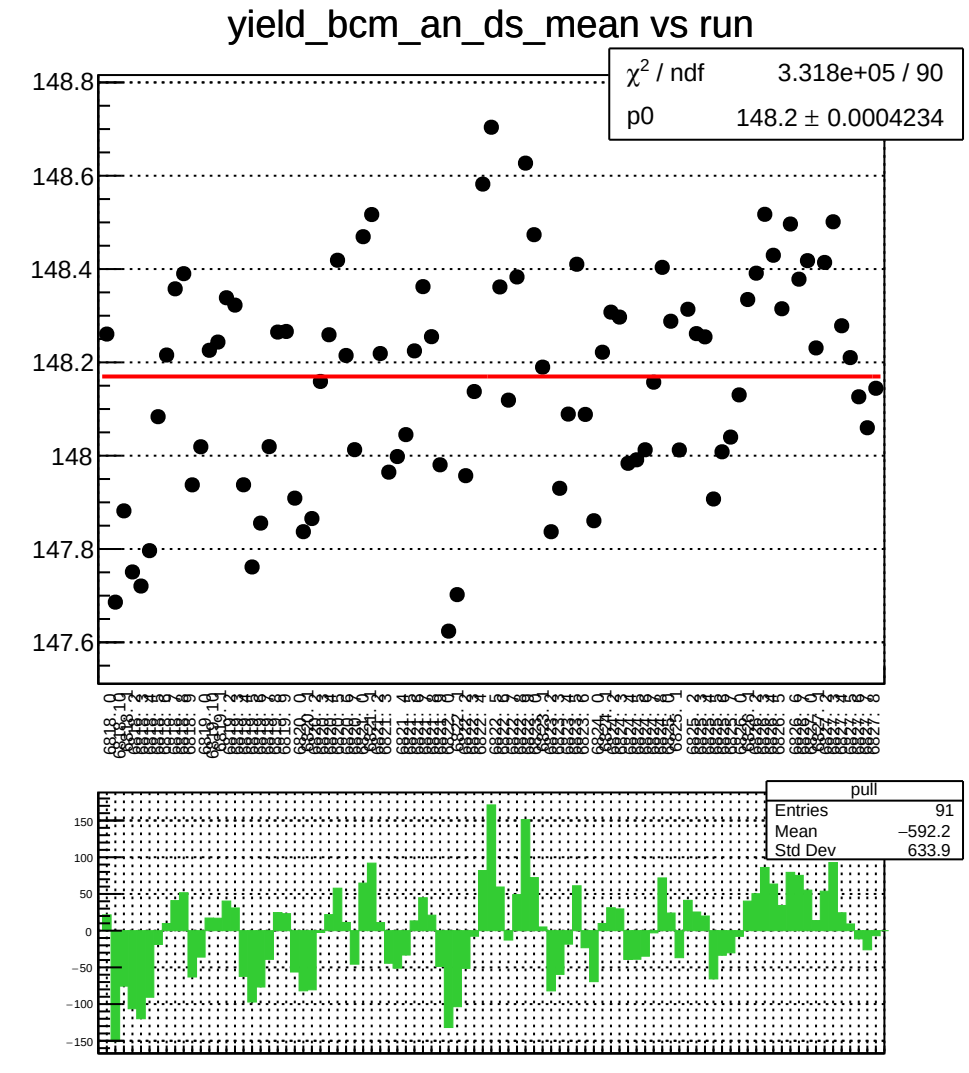

pull1D
Entries 91
Mean −1.925
Std Dev 4.752
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

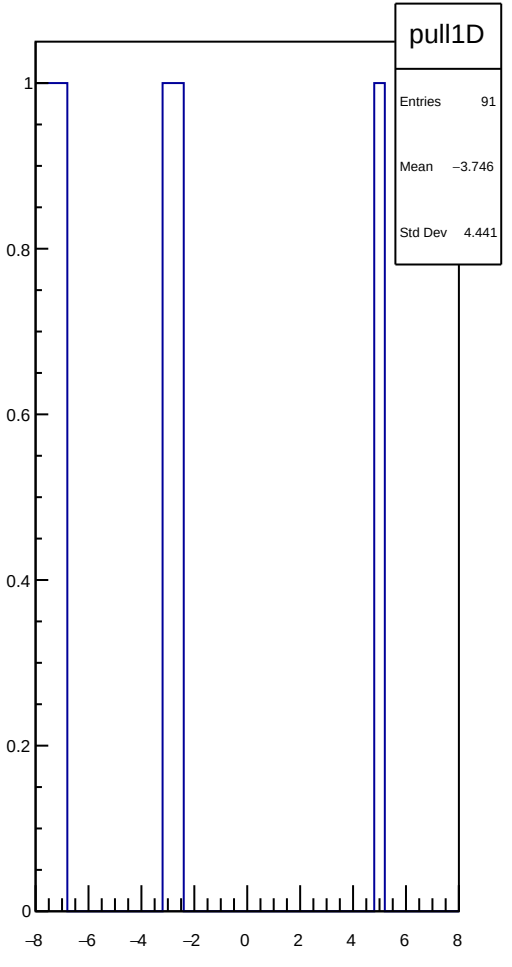

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.561e+04 / 90
p0 0.00013 ± 9.958e−08
0.22
0.2
0.18
0.16
0.14
0.12

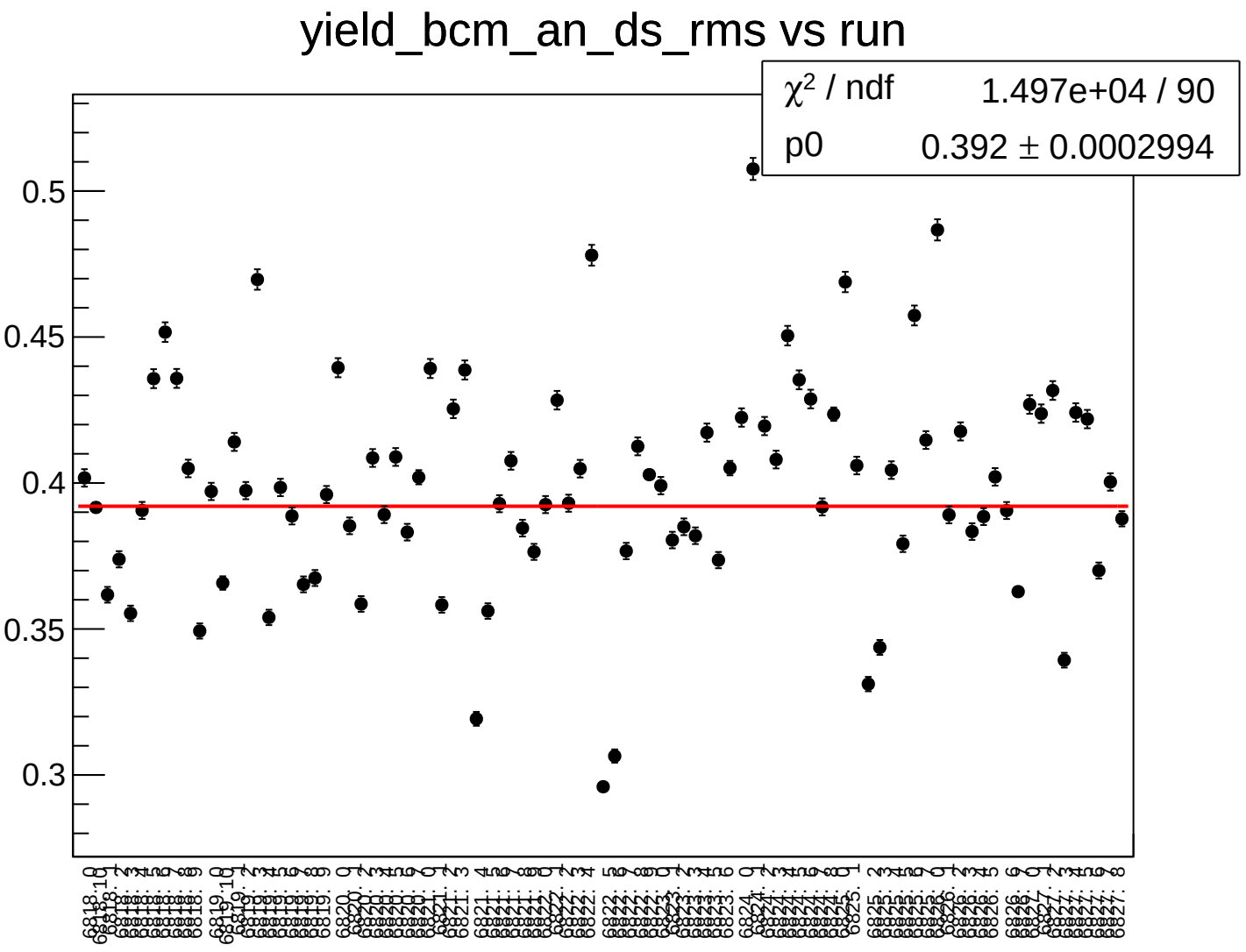

yield_atr2_mean vs run
χ² / ndf 9.651e+04 / 90
p0 0.0286 ± 2.846e−07
0.029
0.0288
0.0286
0.0284
0.0282
pull
Entries 91
Mean 113.9
Std Dev 27.22
80
60
40
20
0
−20
−40
−60

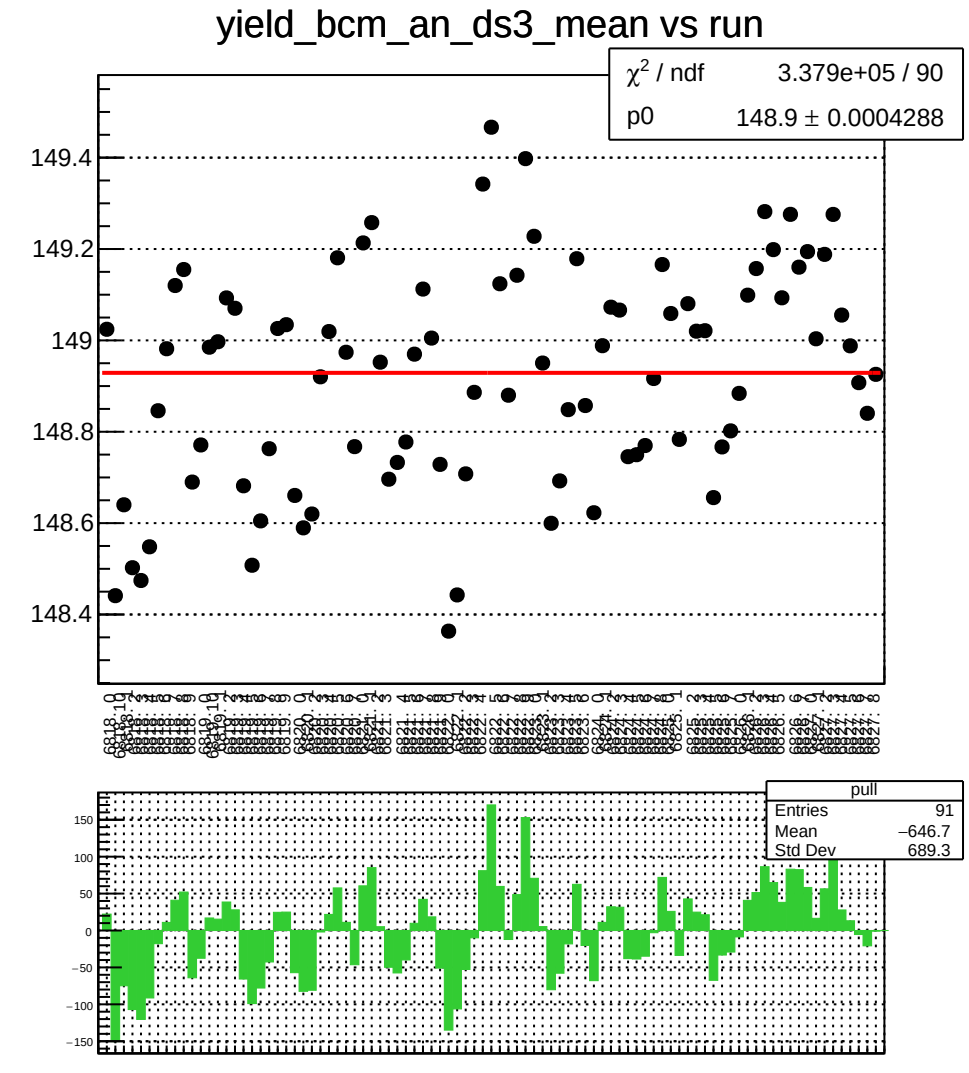

pull1D
Entries 91
Mean 0.1731
Std Dev 4.82
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

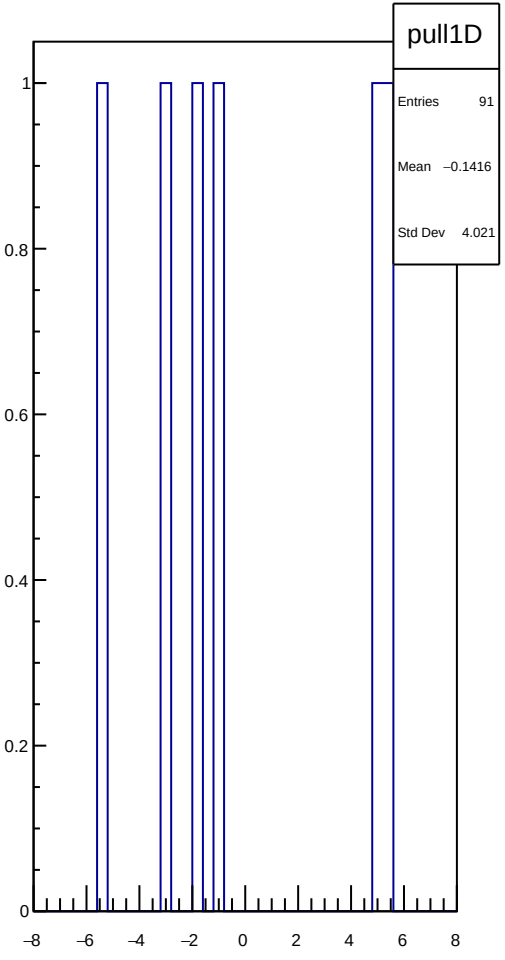

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.132e+05 / 90
p0 0.0002559 ± 2.012e−07
0.7
0.6
0.5
0.4
0.3
0.2

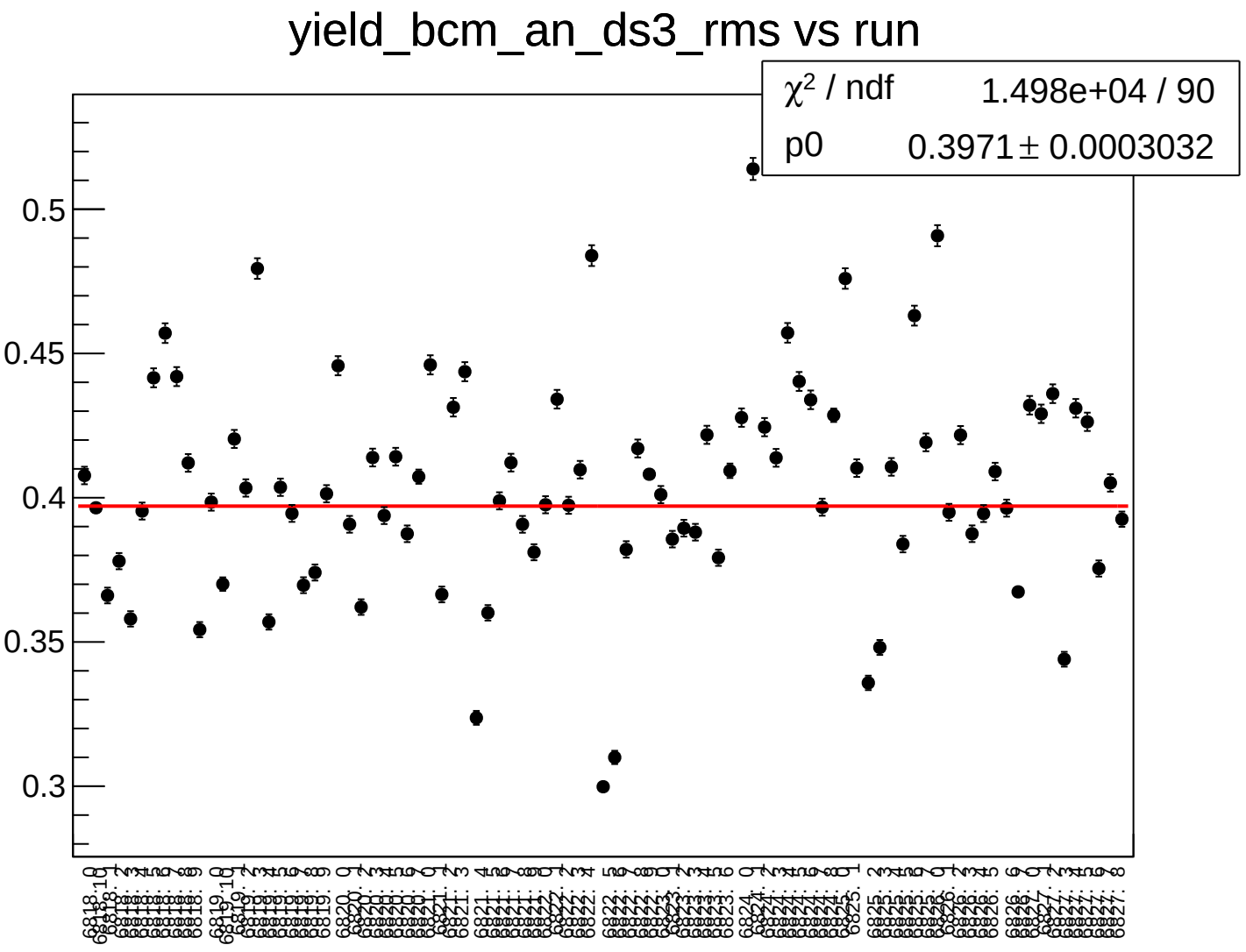

yield_bcm_an_ds_mean vs run
χ² / ndf 3.318e+05 / 90
p0 148.2 ± 0.0004234
148.8
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 91
Mean −592.2
Std Dev 633.9
150
100
50
0
−50
−100
−150

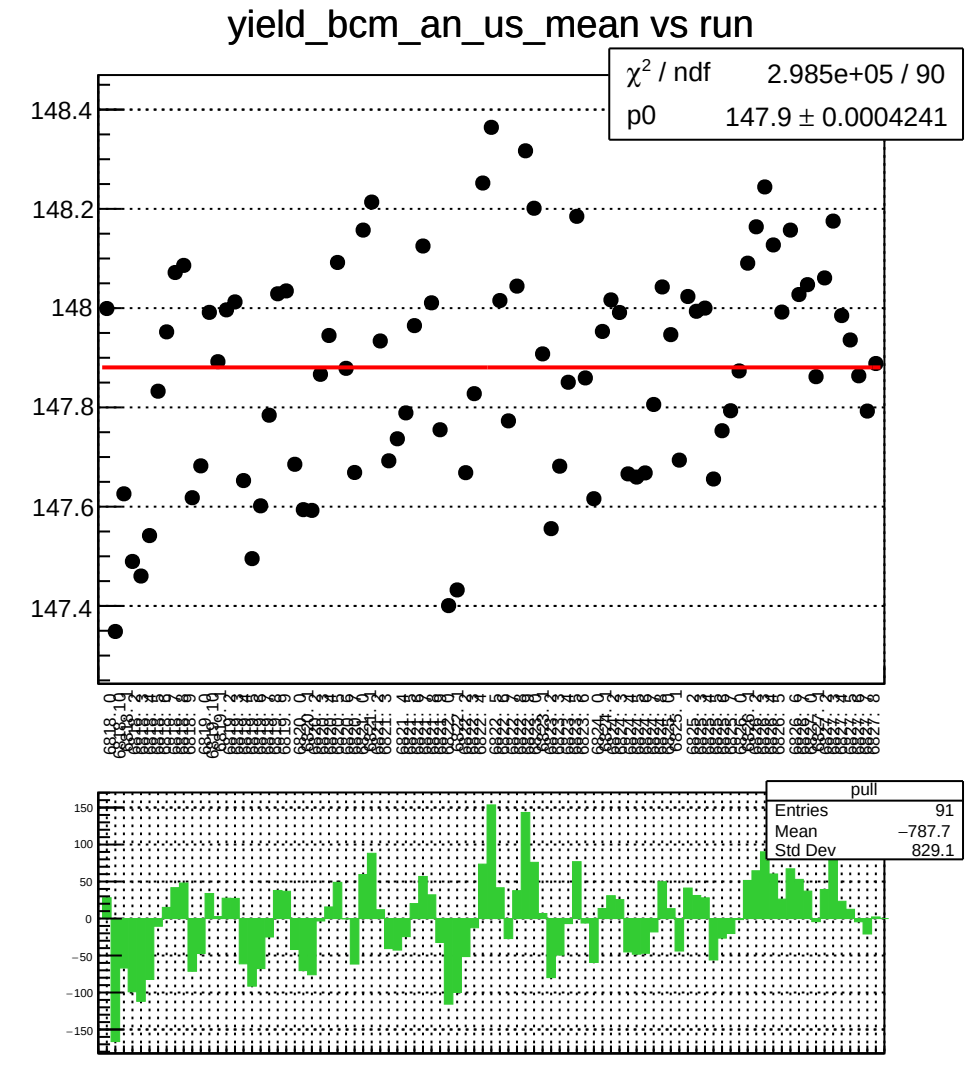

pull1D
Entries 91
Mean −3.746
Std Dev 4.441
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

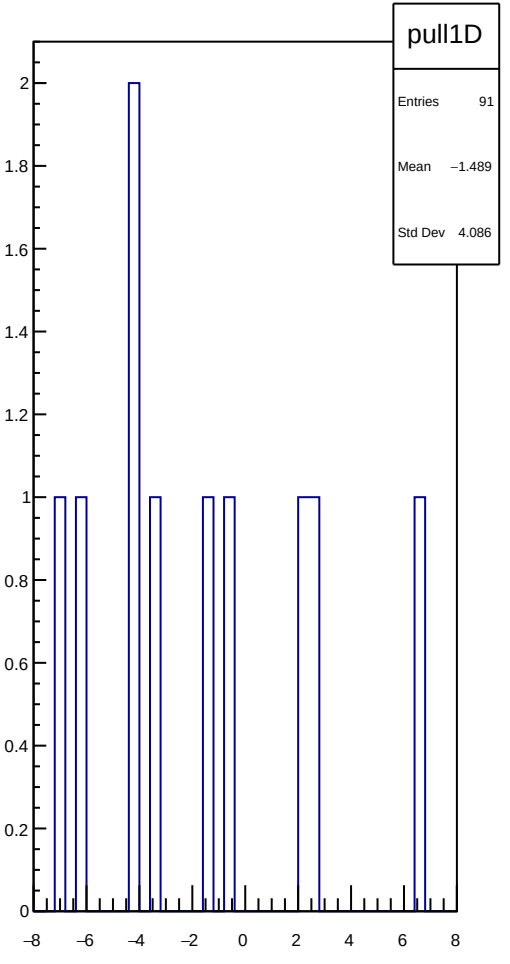

yield_bcm_an_ds_rms vs run
χ² / ndf 1.497e+04 / 90
p0 0.392 ± 0.0002994
0.5
0.45
0.4
0.35
0.3

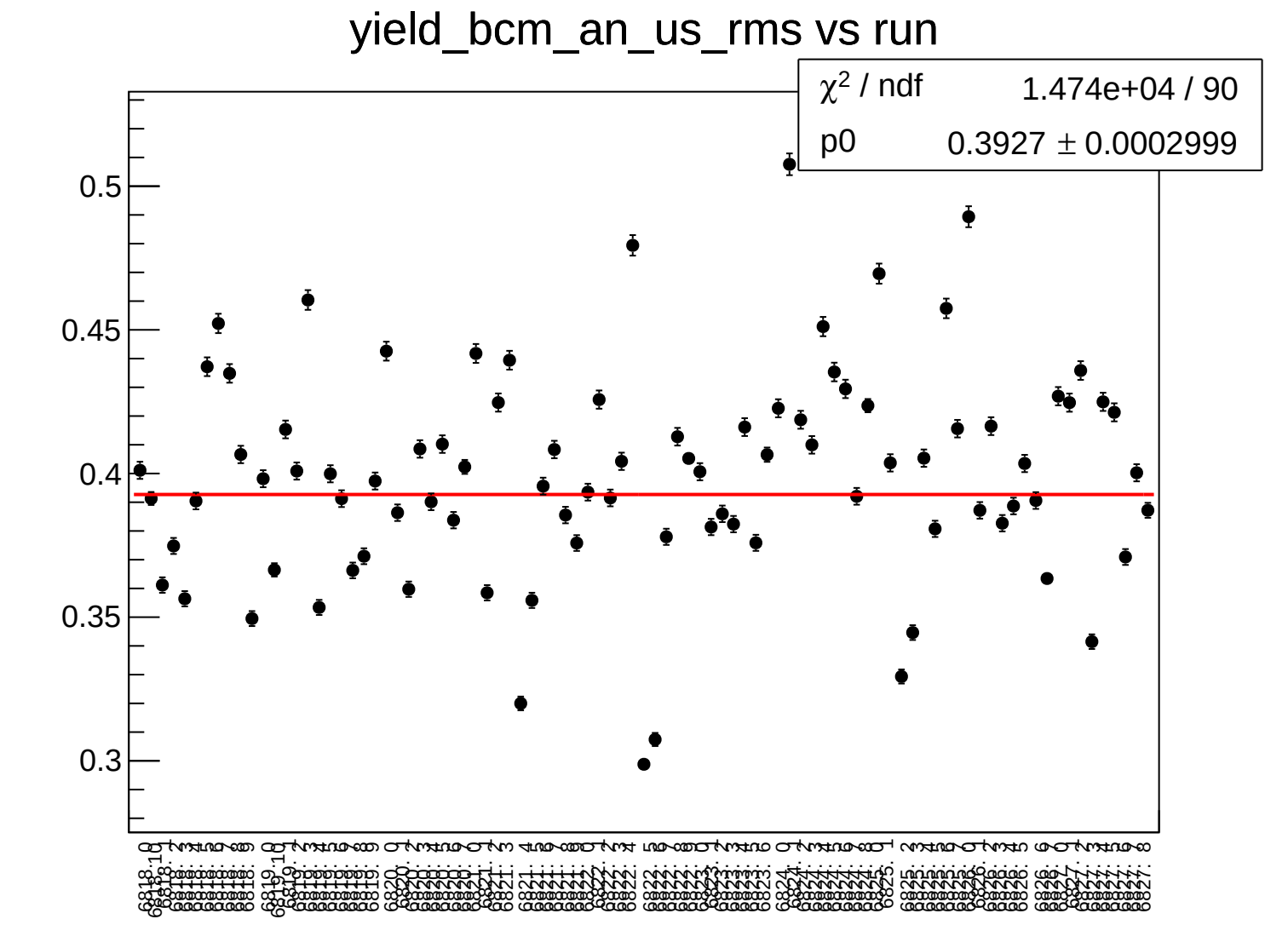

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.379e+05 / 90
p0 148.9 ± 0.0004288
149.4
149.2
149
148.8
148.6
148.4
pull
Entries 91
Mean −646.7
Std Dev 689.3
150
100
50
0
−50
−100
−150

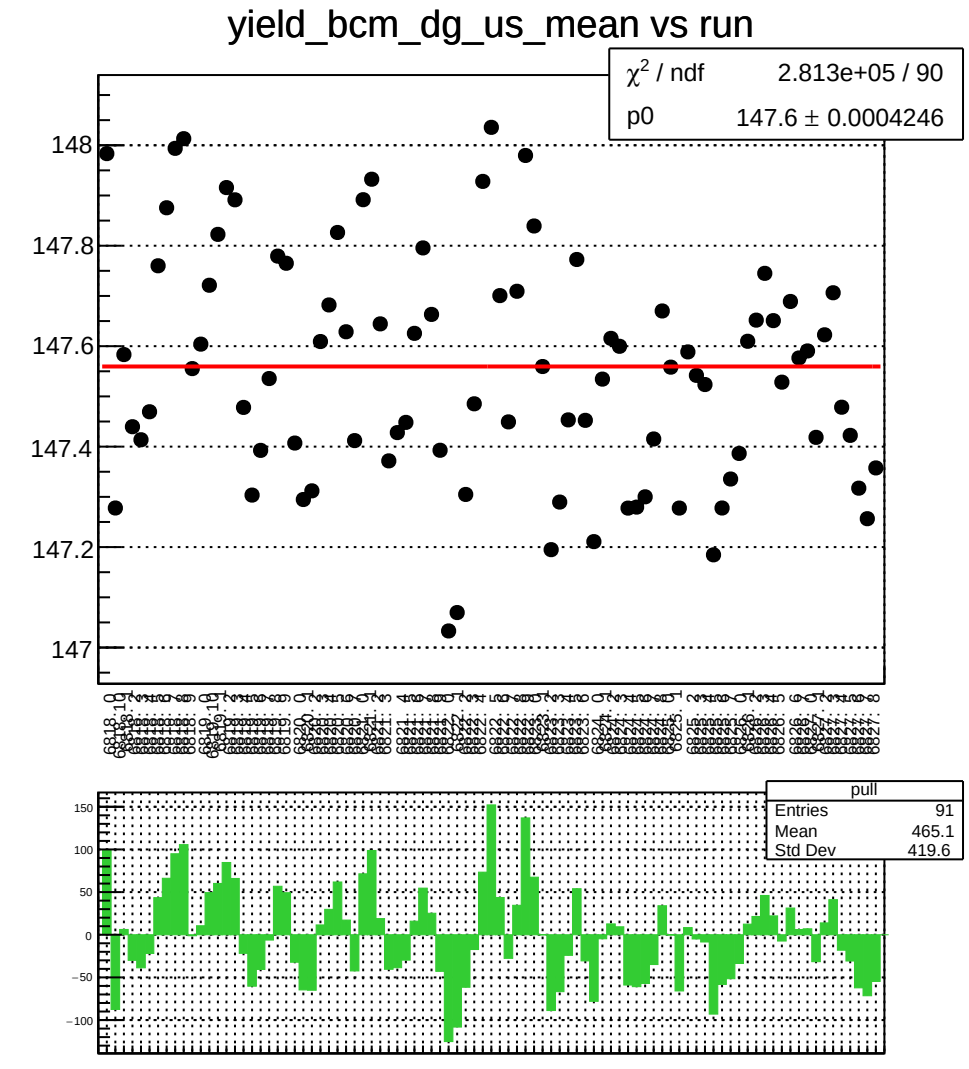

pull1D
Entries 91
Mean −0.1416
Std Dev 4.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

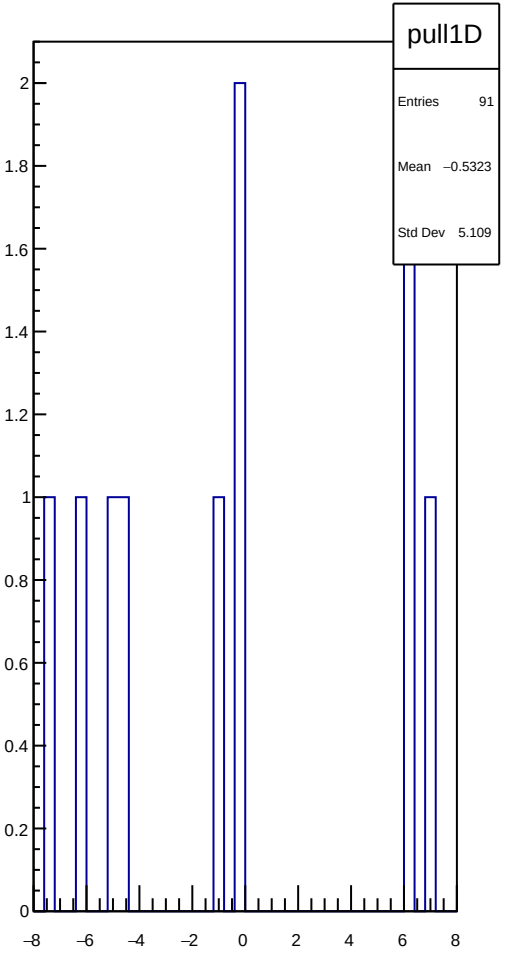

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.498e+04 / 90
p0 0.3971 ± 0.0003032
0.5
0.45
0.4
0.35
0.3

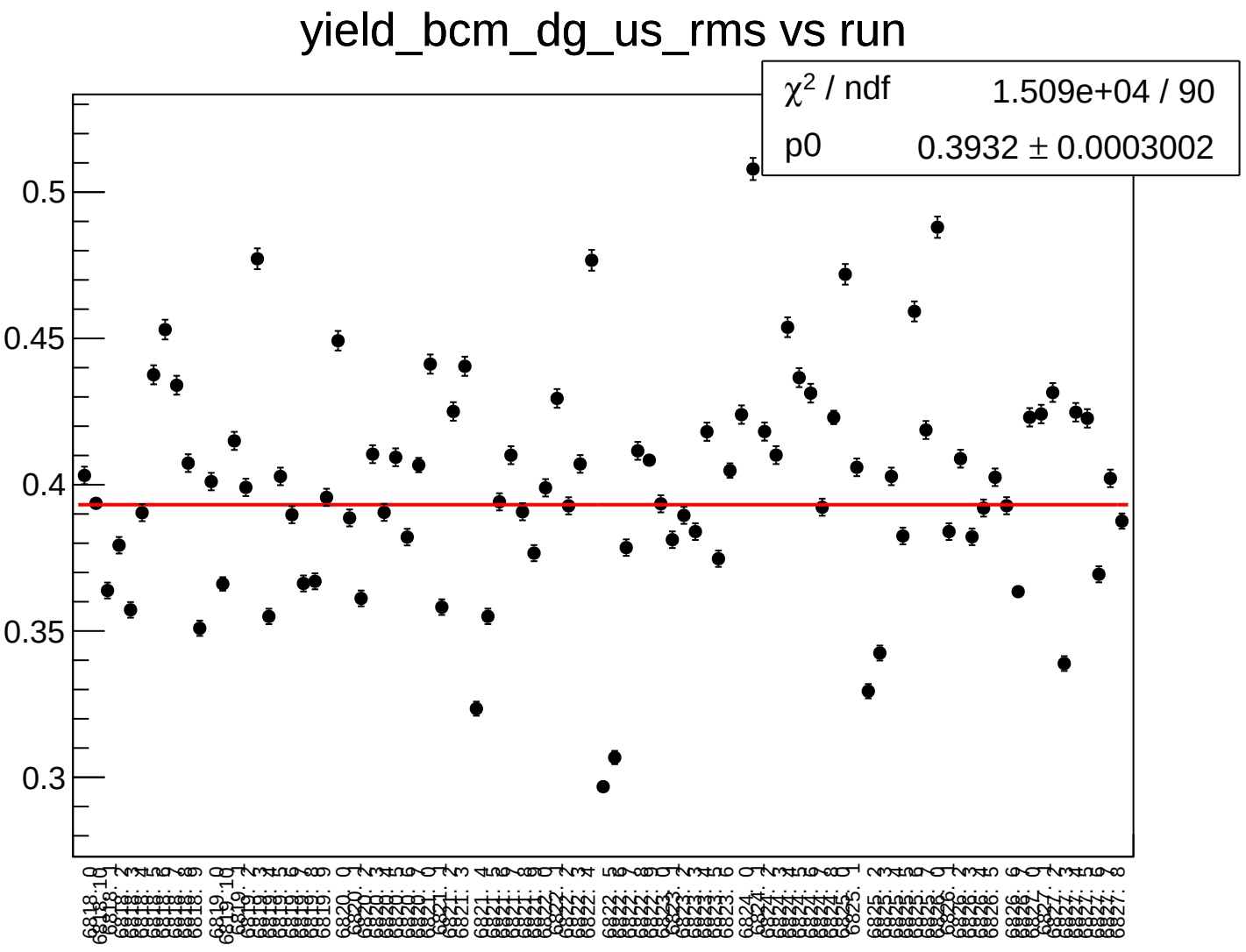

yield_bcm_an_us_mean vs run
χ² / ndf 2.985e+05 / 90
p0 147.9 ± 0.0004241
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 91
Mean −787.7
Std Dev 829.1
150
100
50
0
−50
−100
−150

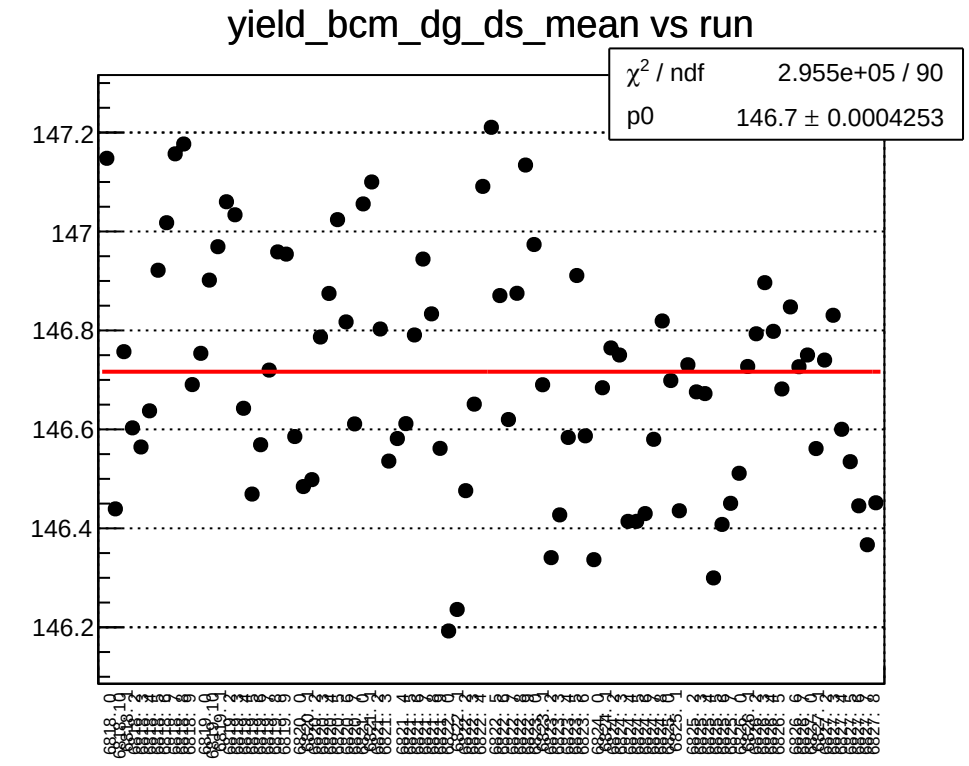

pull1D
Entries 91
Mean −1.489
Std Dev 4.086
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

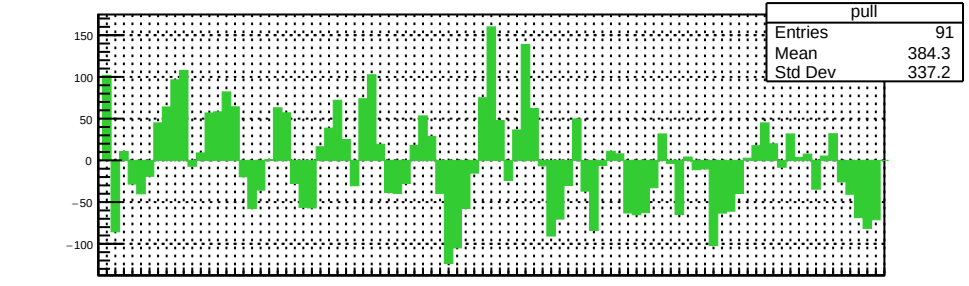

yield_bcm_an_us_rms vs run
χ² / ndf 1.474e+04 / 90
p0 0.3927 ± 0.0002999
0.5
0.45
0.4
0.35
0.3

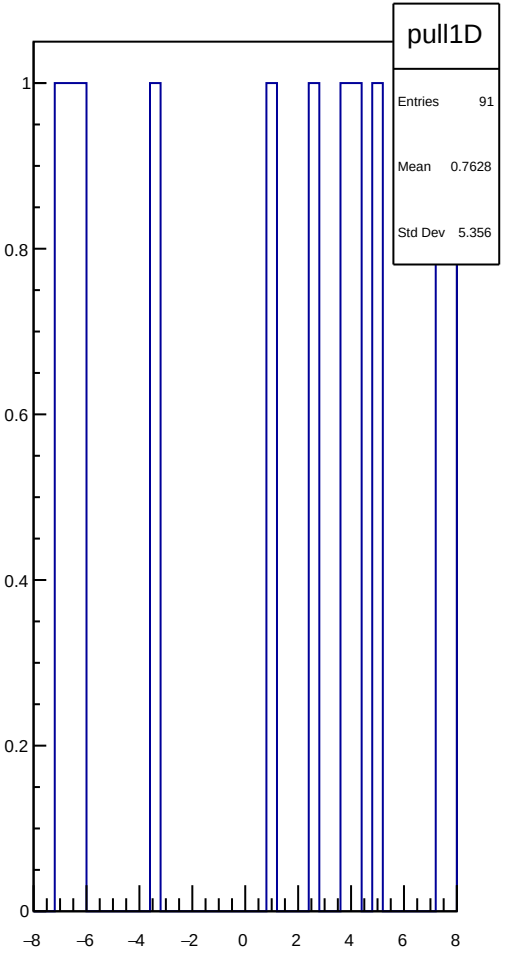

yield_bcm_dg_us_mean vs run
χ² / ndf 2.813e+05 / 90
p0 147.6 ± 0.0004246
148
147.8
147.6
147.4
147.2
147
pull
Entries 91
Mean 465.1
Std Dev 419.6
150
100
50
0
−50
−100

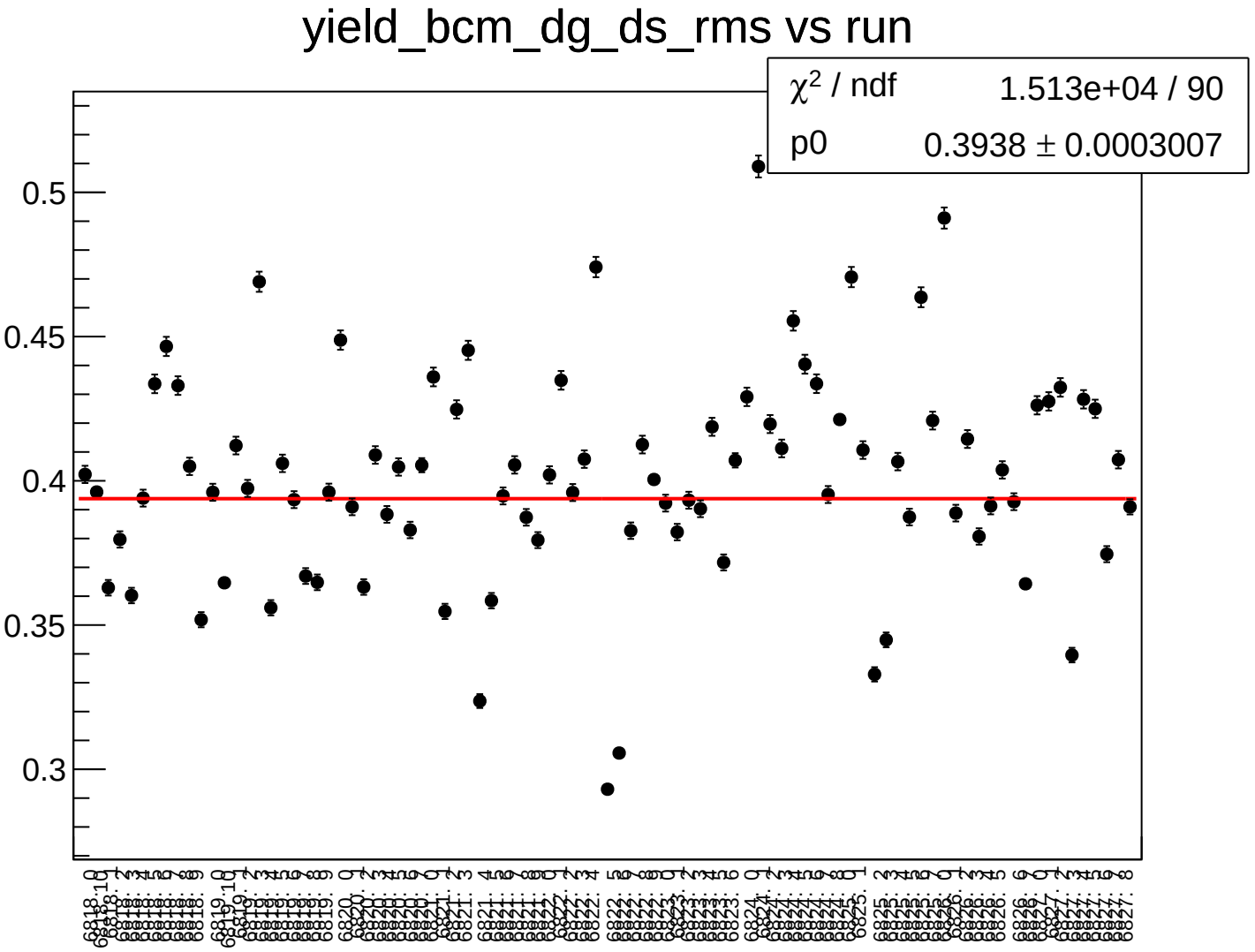

pull1D
Entries 91
Mean −0.5323
Std Dev 5.109
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

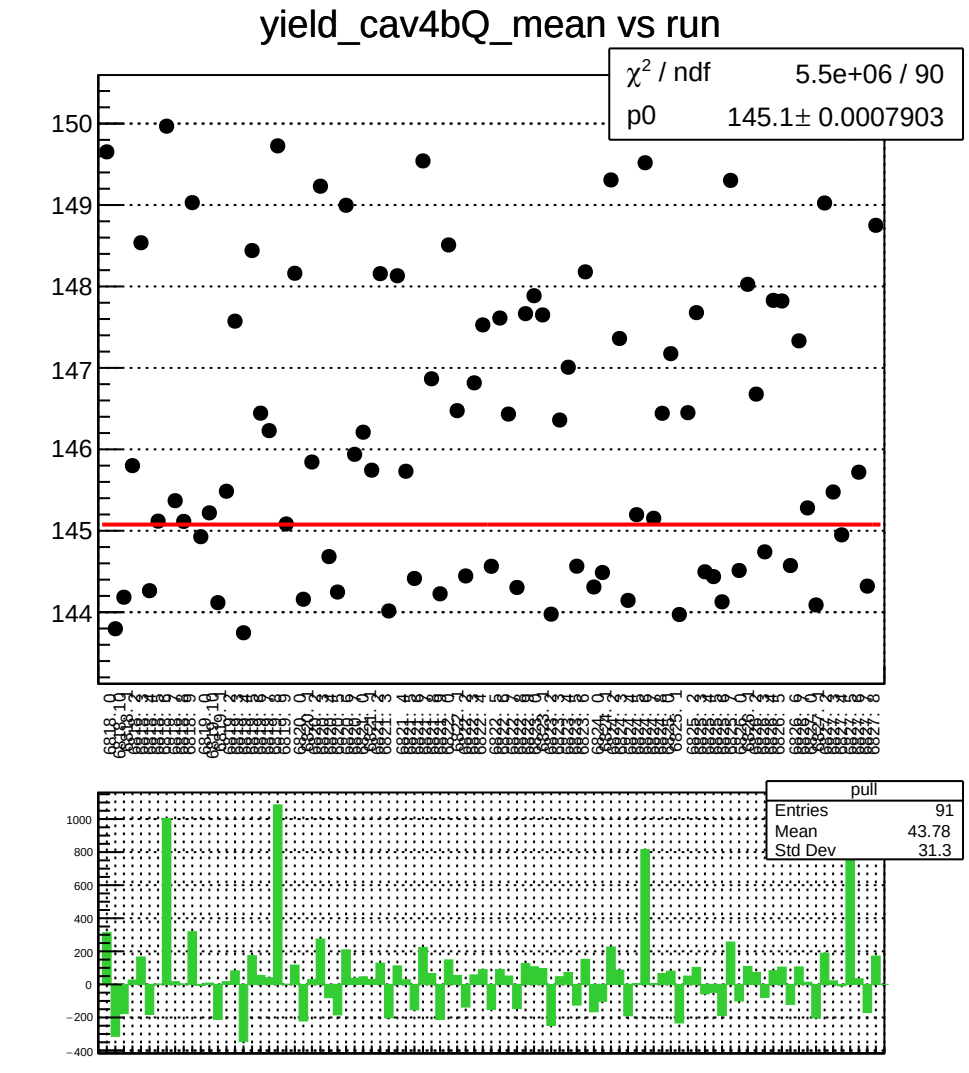

yield_bcm_dg_us_rms vs run
χ² / ndf 1.509e+04 / 90
p0 0.3932 ± 0.0003002
0.5
0.45
0.4
0.35
0.3

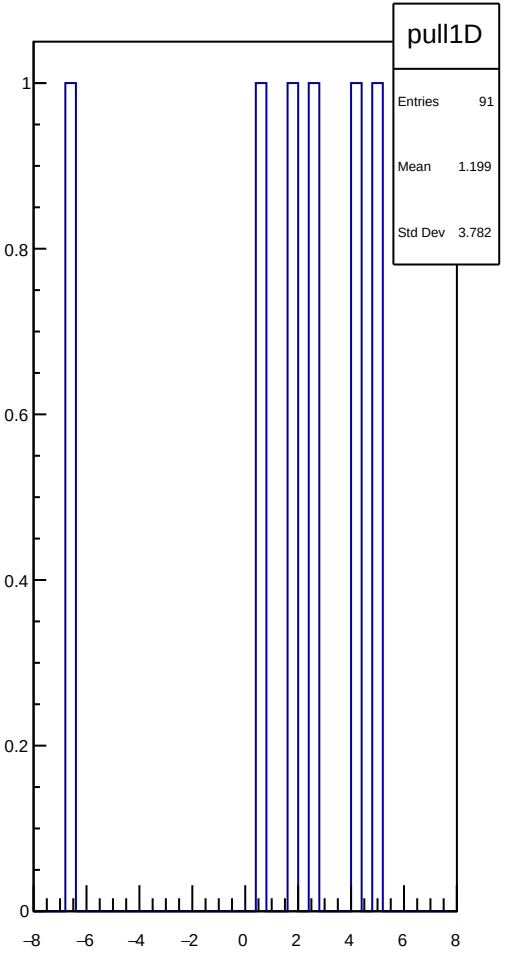

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.955e+05 / 90
p0 146.7 ± 0.0004253
147.2
147
146.8
146.6
146.4
146.2

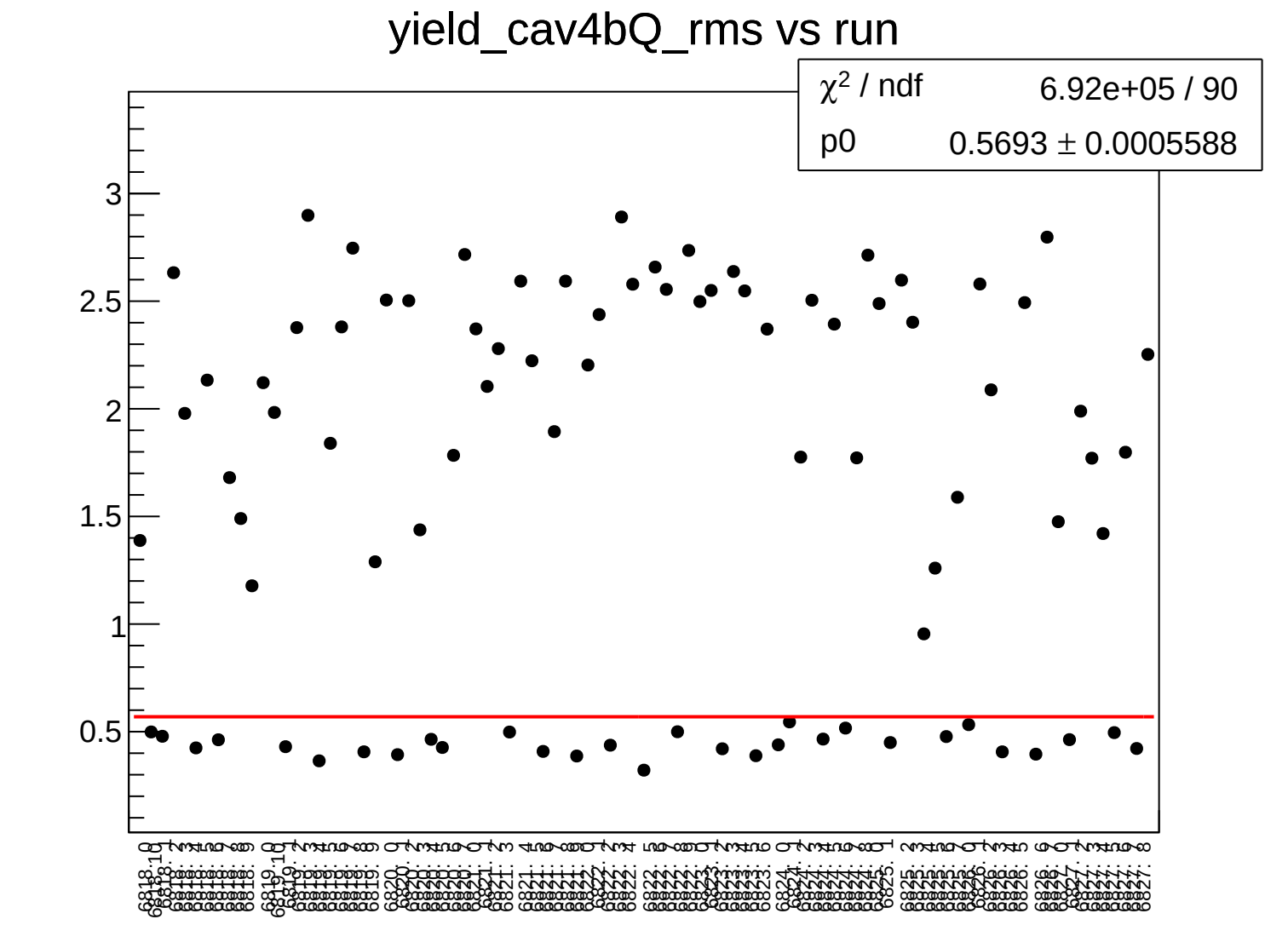

pull
Entries 91
Mean 384.3
Std Dev 337.2
150
100
50
0
−50
−100

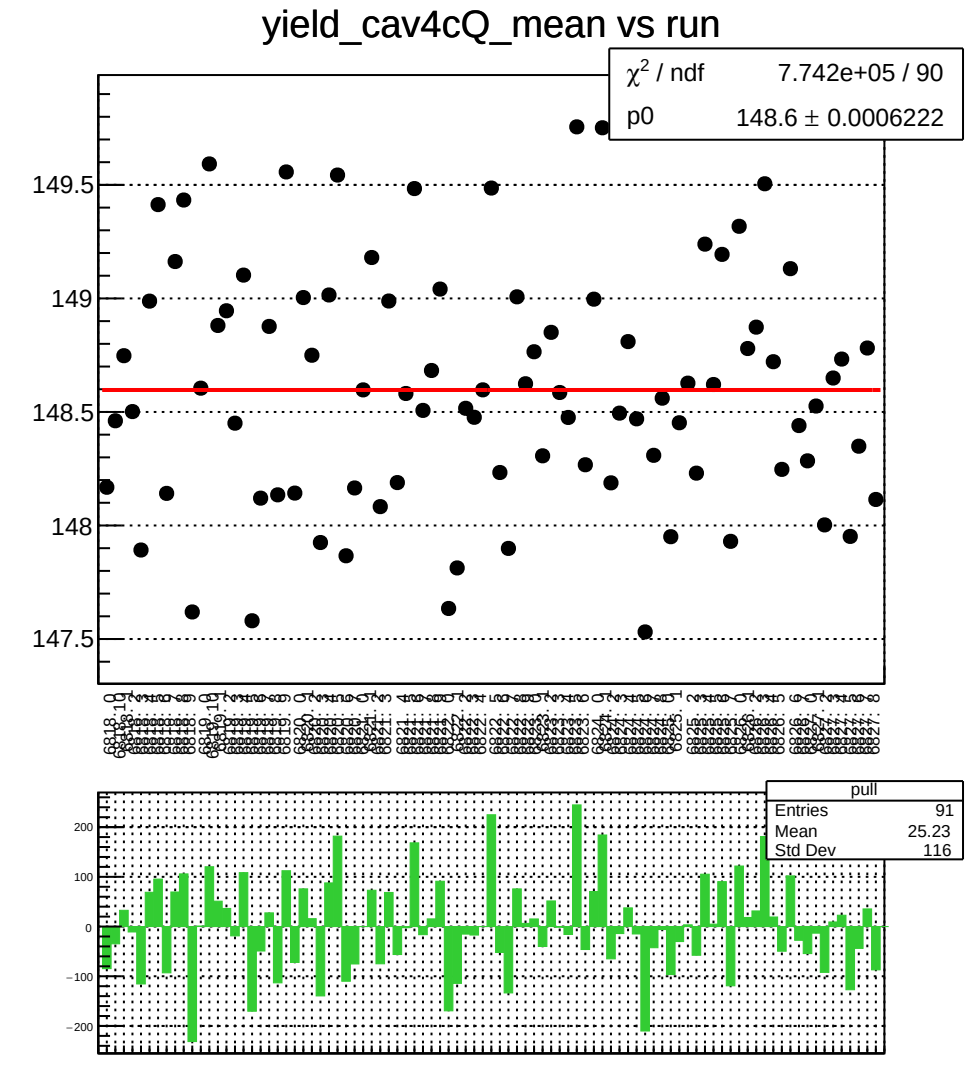

pull1D
Entries 91
Mean 0.7628
Std Dev 5.356
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

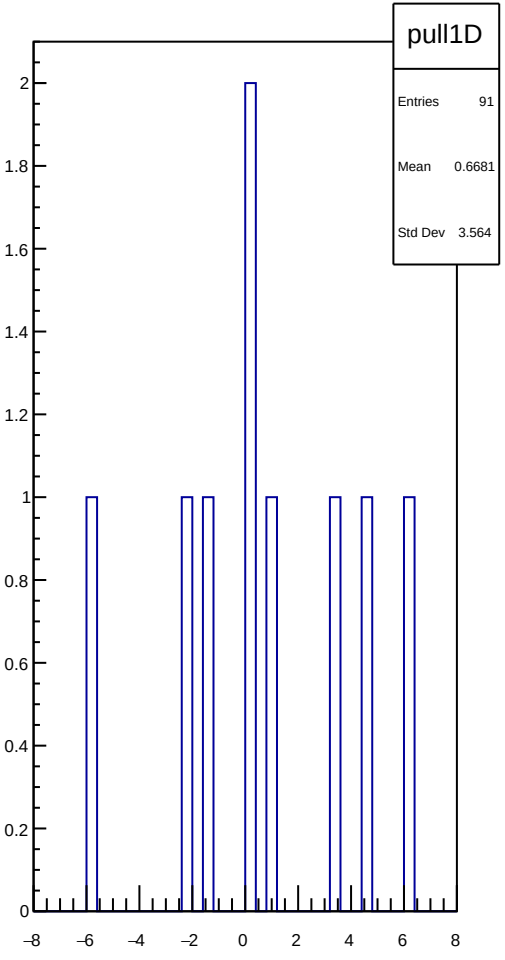

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.513e+04 / 90
p0 0.3938 ± 0.0003007
0.5
0.45
0.4
0.35
0.3

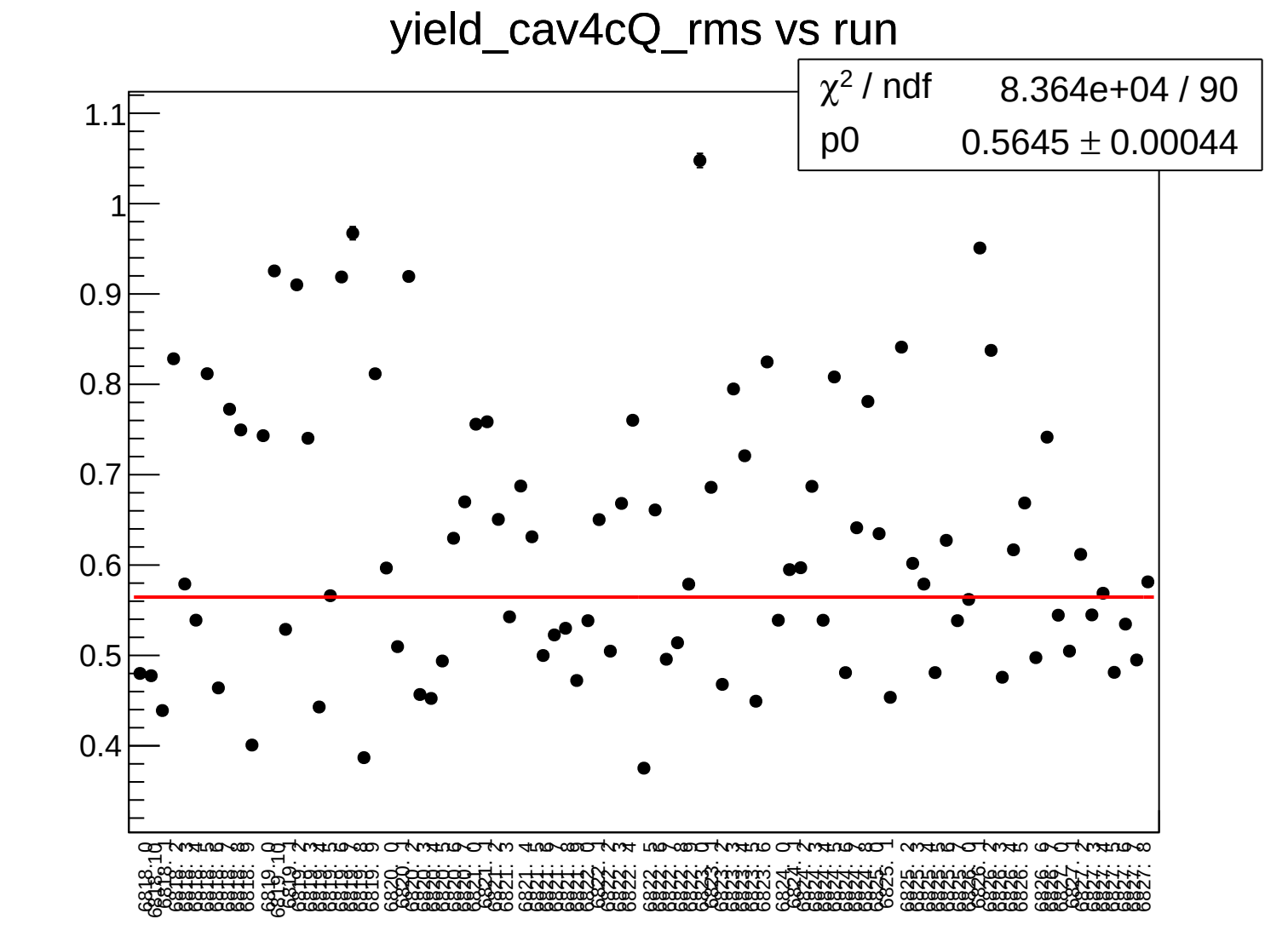

yield_cav4bQ_mean vs run
χ² / ndf 5.5e+06 / 90
p0 145.1± 0.0007903
150
149
148
147
146
145
144
pull
Entries 91
Mean 43.78
Std Dev 31.3
1000
800
600
400
200
0
−200
−400

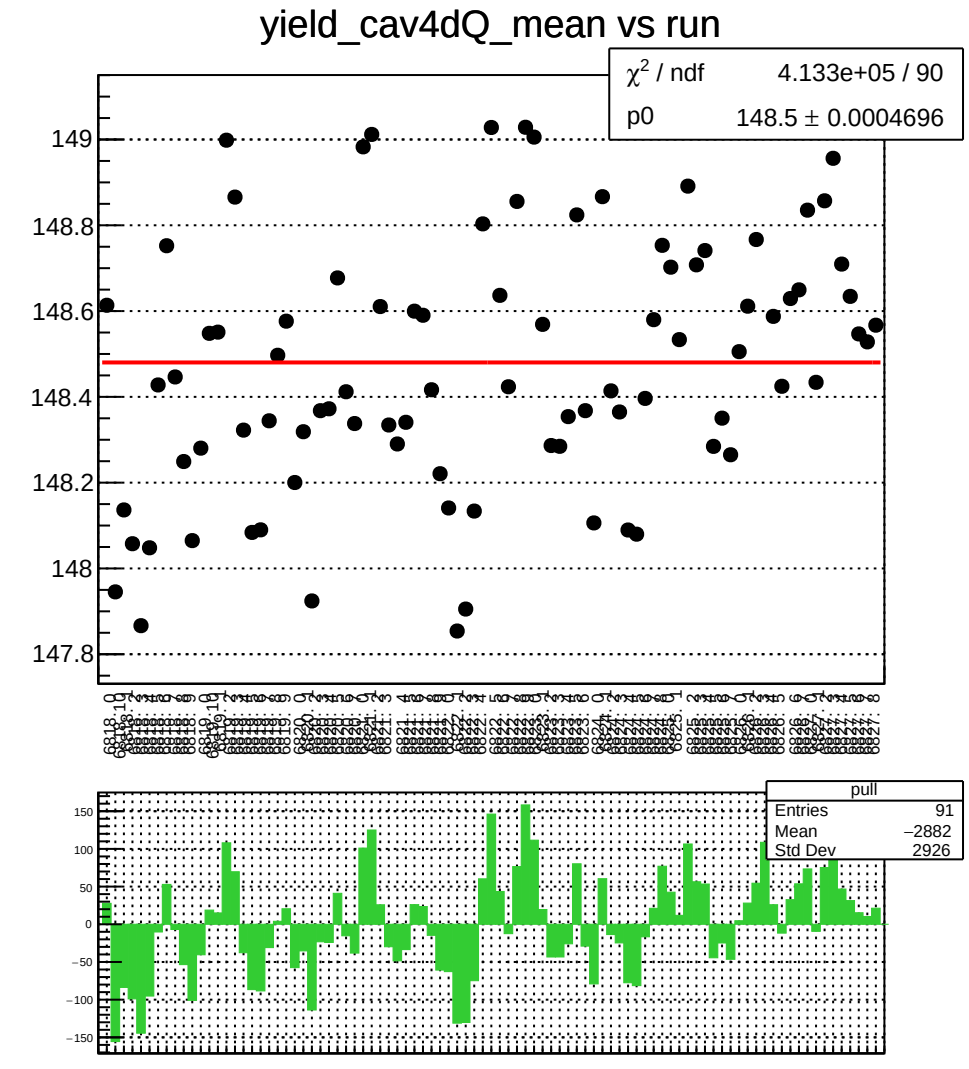

pull1D
Entries 91
Mean 1.199
Std Dev 3.782
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

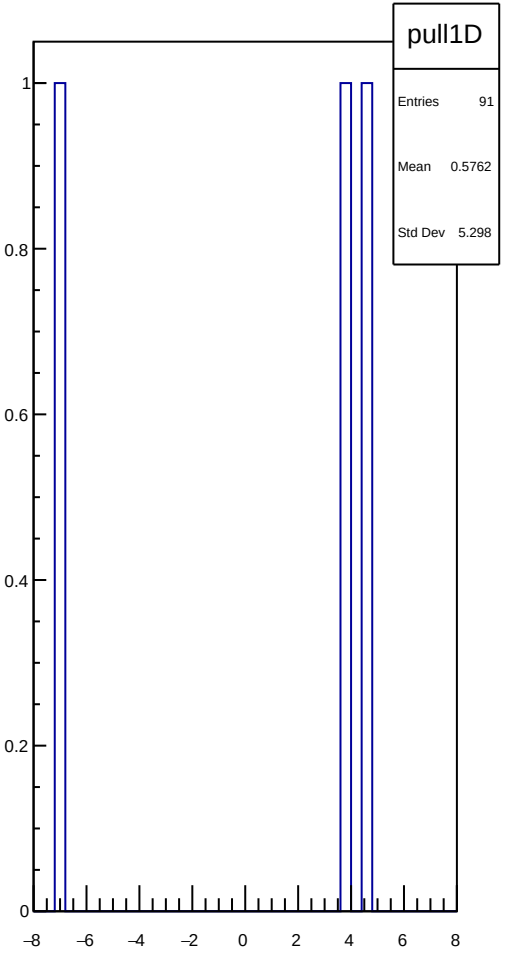

yield_cav4bQ_rms vs run
χ² / ndf 6.92e+05 / 90
p0 0.5693 ± 0.0005588
3
2.5
2
1.5
1
0.5

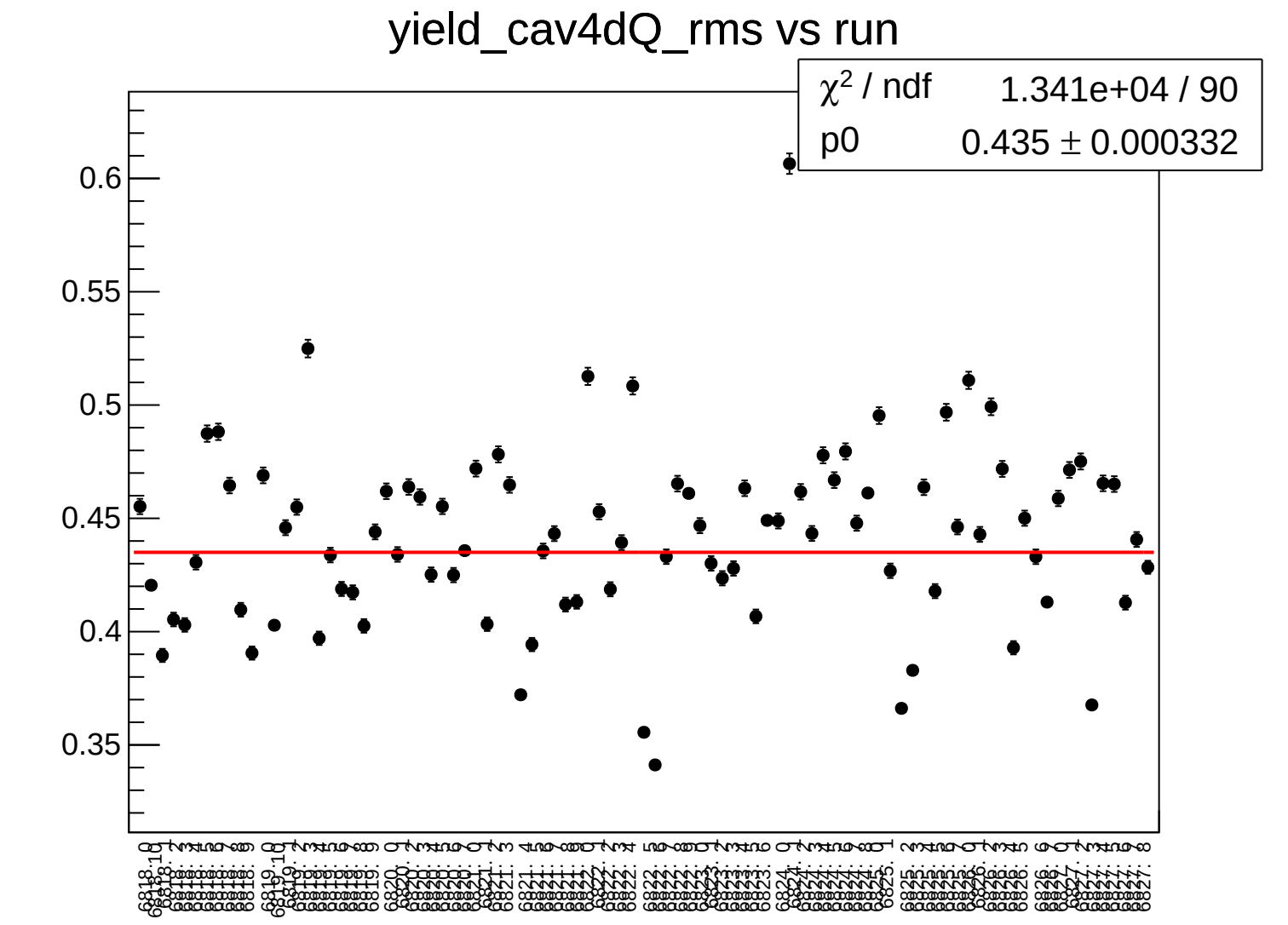

yield_cav4cQ_mean vs run
χ² / ndf 7.742e+05 / 90
p0 148.6 ± 0.0006222
149.5
149
148.5
148
147.5
pull
Entries 91
Mean 25.23
Std Dev 116
200
100
0
−100
−200

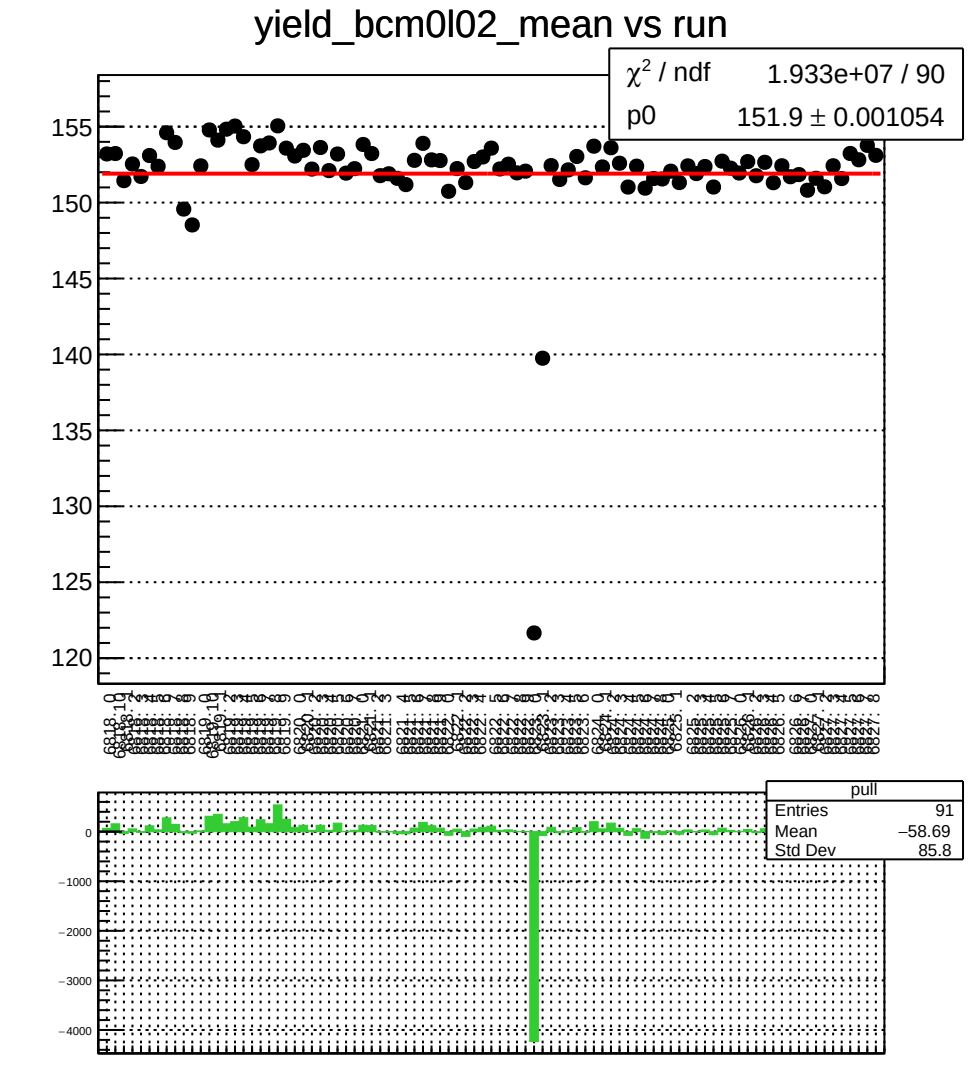

pull1D
Entries 91
Mean 0.6681
Std Dev 3.564
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

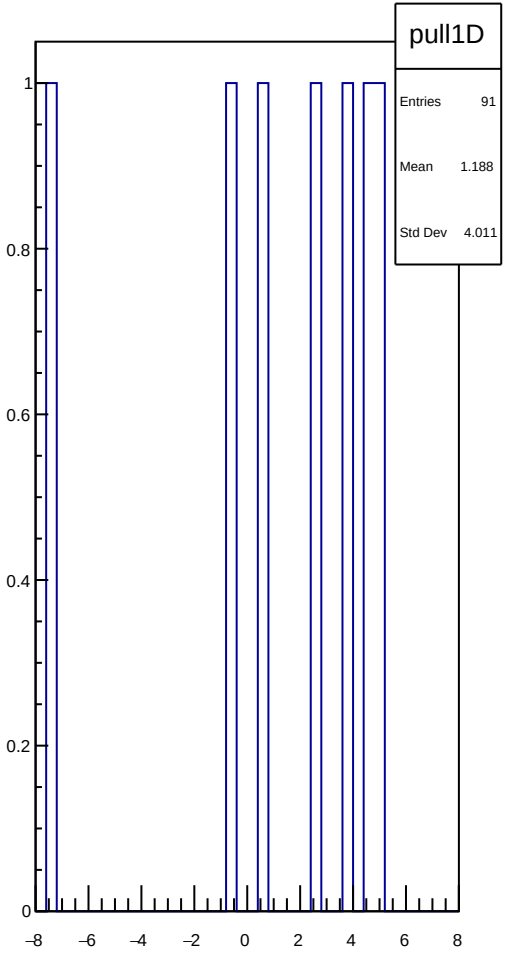

yield_cav4cQ_rms vs run
χ^2 / ndf 8.364e+04 / 90
p0 0.5645 ± 0.00044
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4

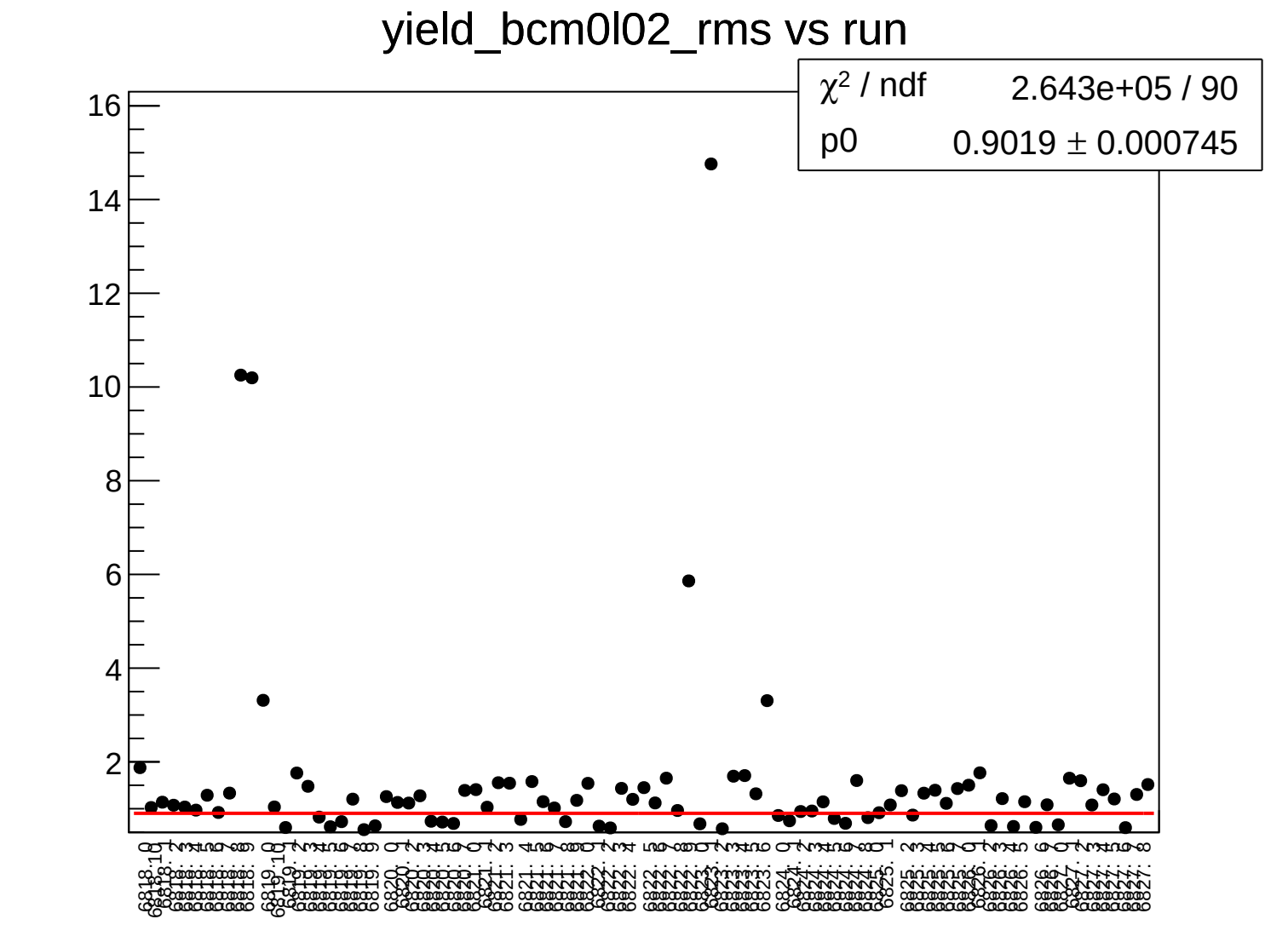

yield_cav4dQ_mean vs run
χ² / ndf 4.133e+05 / 90
p0 148.5 ± 0.0004696
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 91
Mean −2882
Std Dev 2926
150
100
50
0
−50
−100
−150

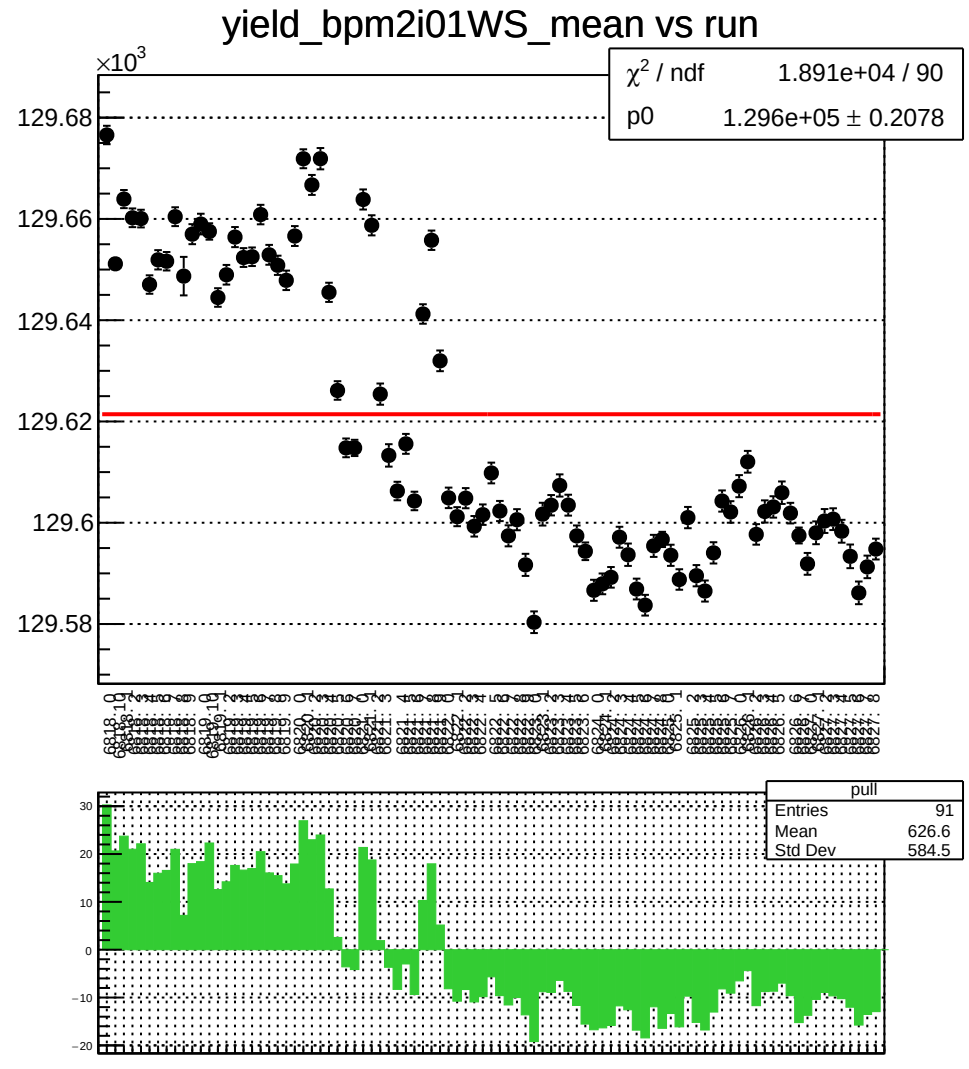

pull1D
Entries 91
Mean 0.5762
Std Dev 5.298
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

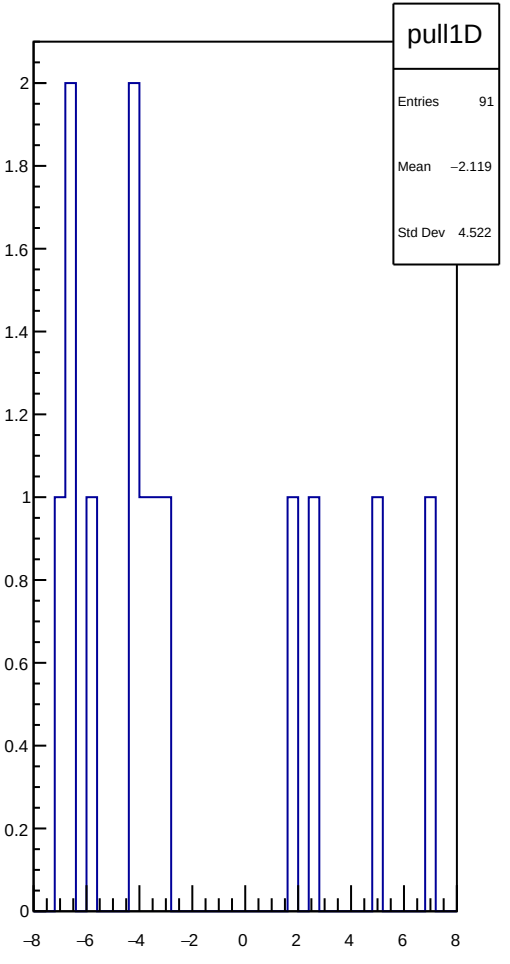

yield_cav4dQ_rms vs run
χ² / ndf 1.341e+04 / 90
p0 0.435 ± 0.000332
0.6
0.55
0.5
0.45
0.4
0.35

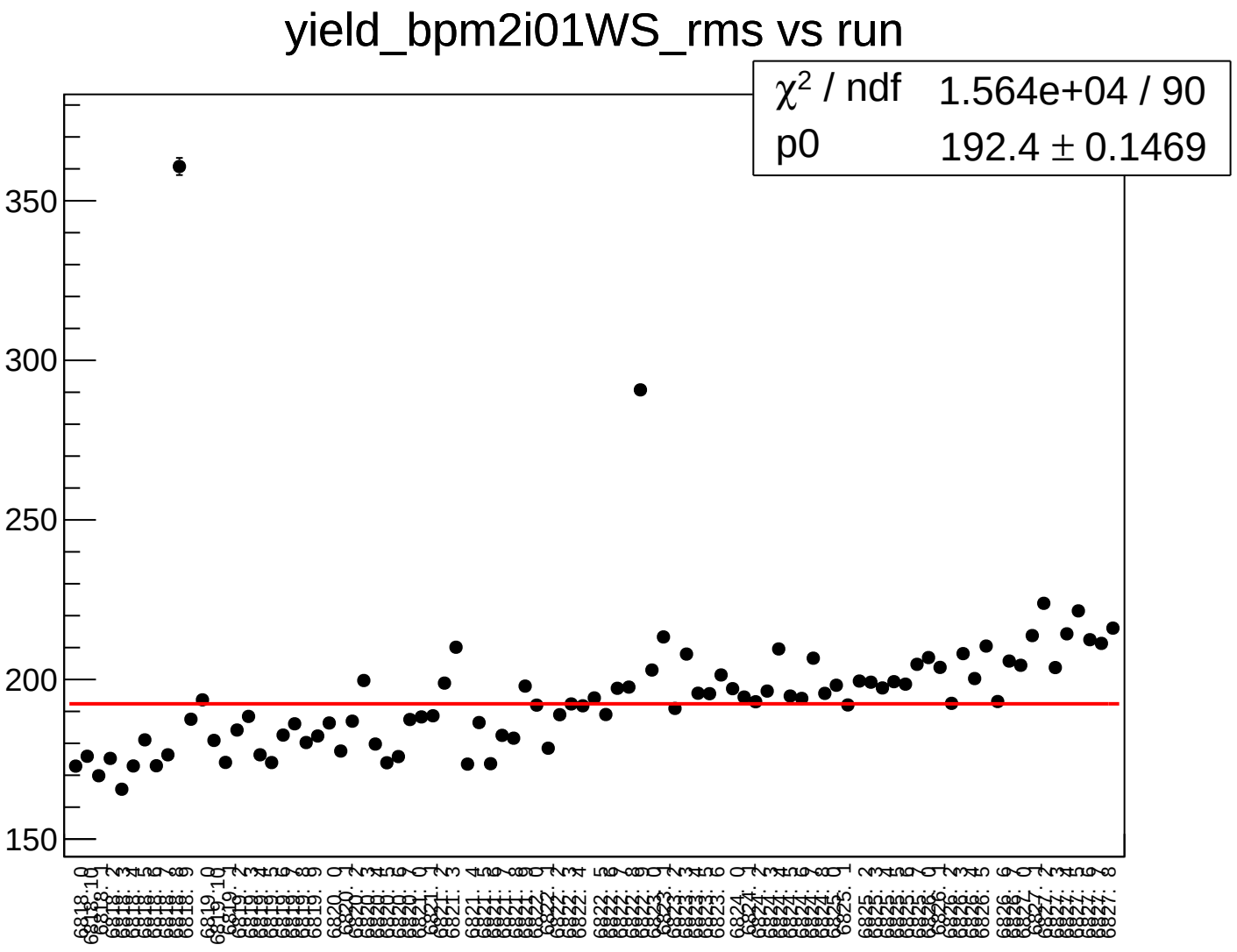

yield_bcm0l02_mean vs run
χ² / ndf 1.933e+07 / 90
p0 151.9 ± 0.001054
155
150
145
140
135
130
125
120
pull
Entries 91
Mean −58.69
Std Dev 85.8
0
−1000
−2000
−3000
−4000

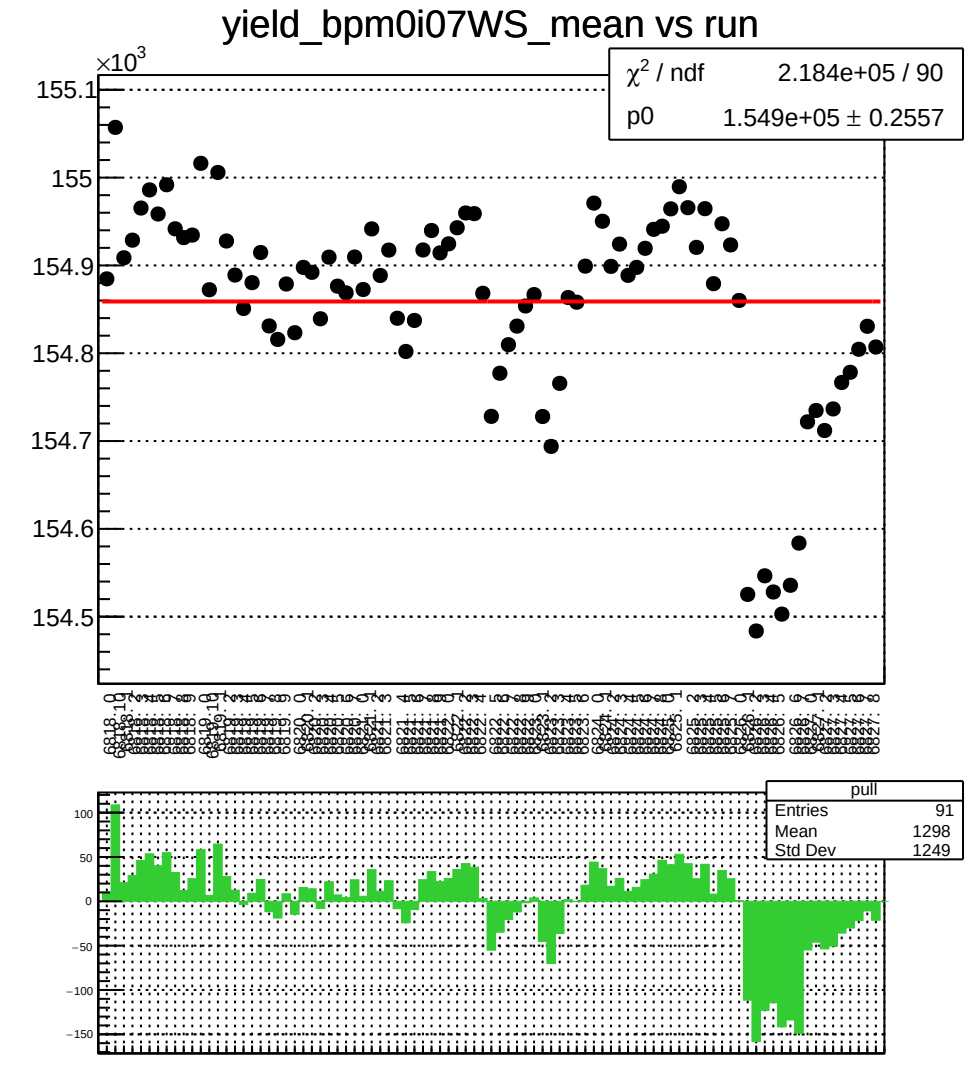

pull1D
Entries 91
Mean 1.188
Std Dev 4.011
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

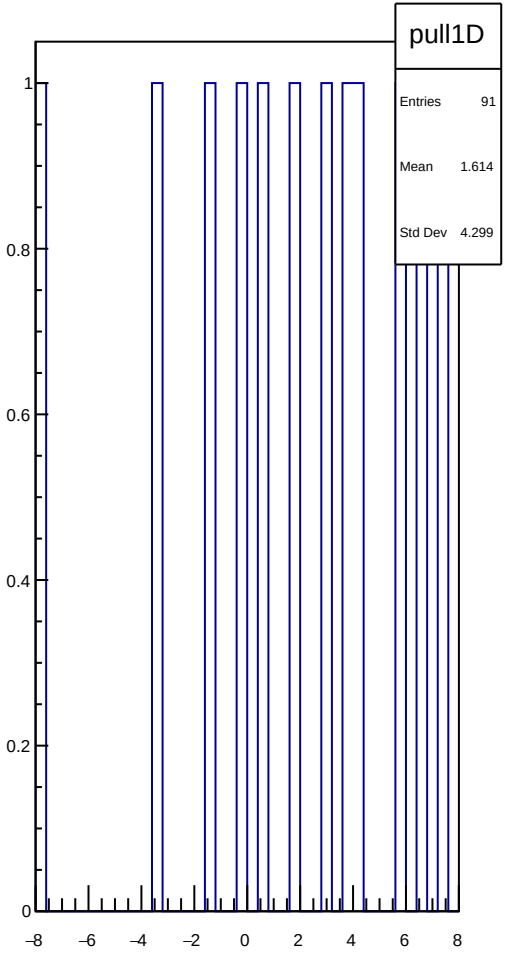

yield_bcm0l02_rms vs run
χ² / ndf 2.643e+05 / 90
p0 0.9019 ± 0.000745
16
14
12
10
8
6
4
2

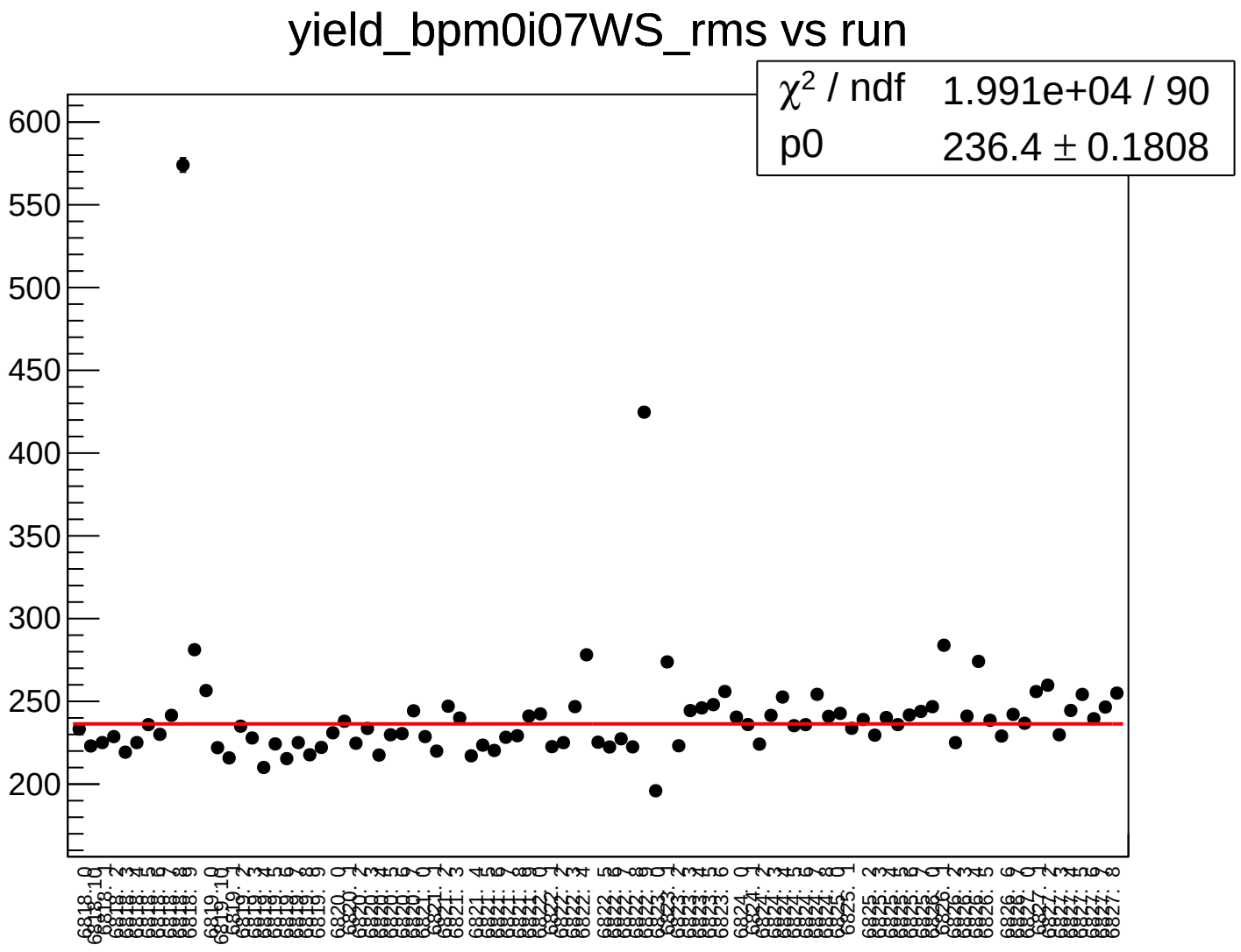

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.891e+04 / 90
p0 1.296e+05 ± 0.2078
129.68
129.66
129.64
129.62
129.6
129.58
pull
Entries 91
Mean 626.6
Std Dev 584.5
30
20
10
0
−10
−20

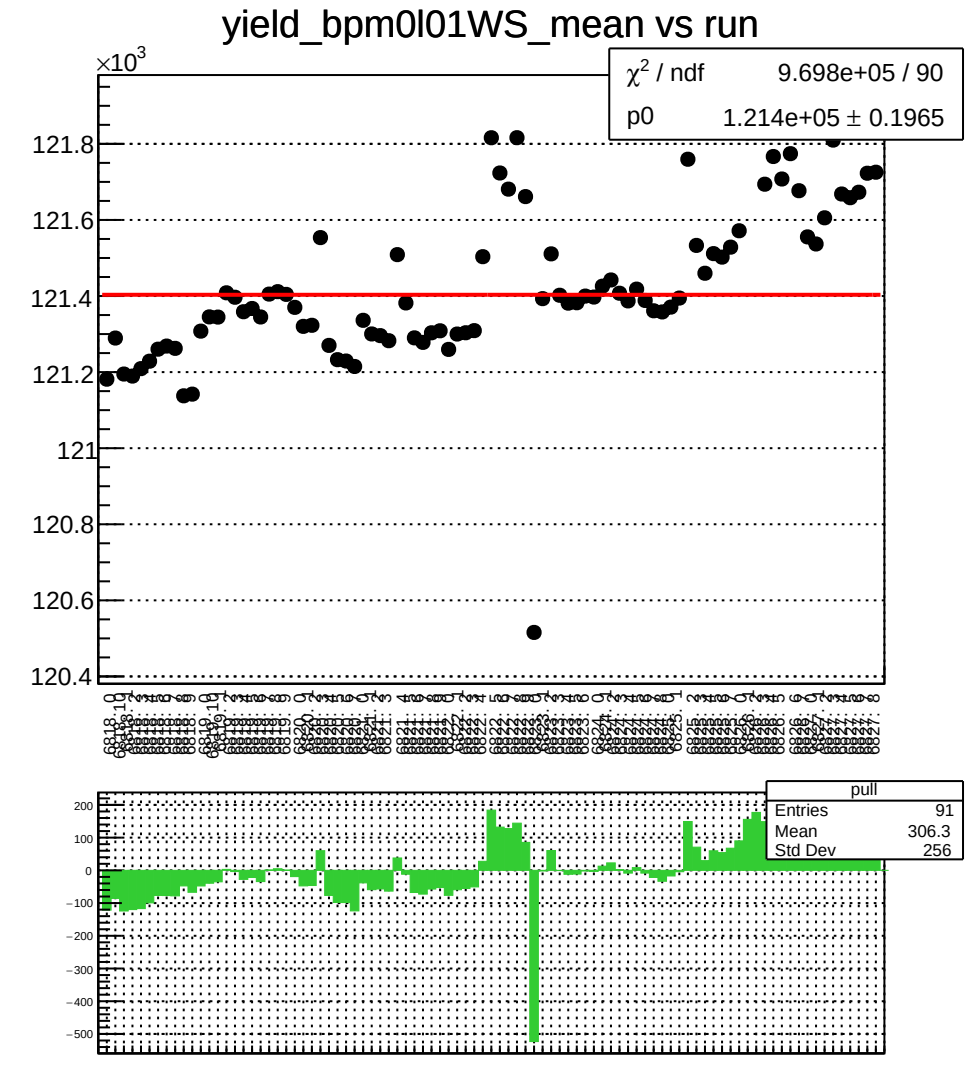

pull1D
Entries 91
Mean −2.119
Std Dev 4.522
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

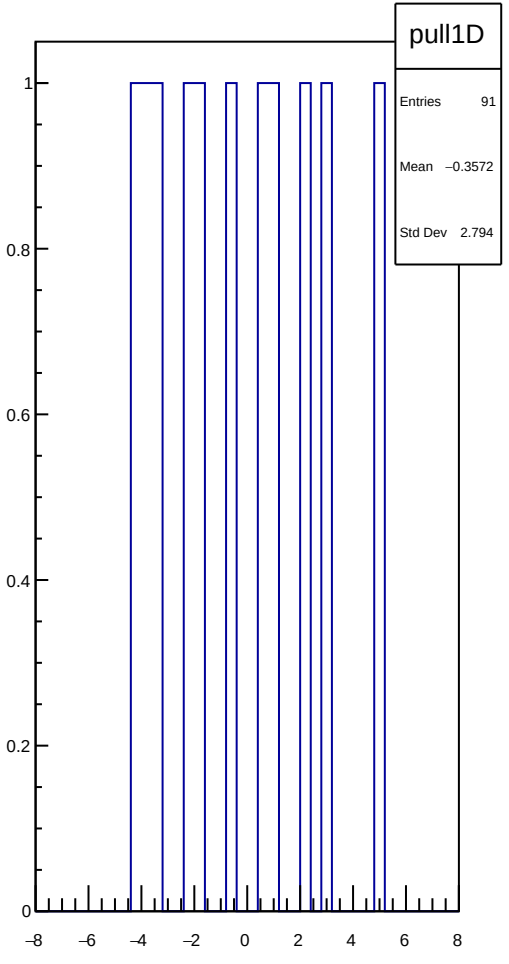

yield_bpm2i01WS_rms vs run
χ² / ndf 1.564e+04 / 90
p0 192.4 ± 0.1469
350
300
250
200
150

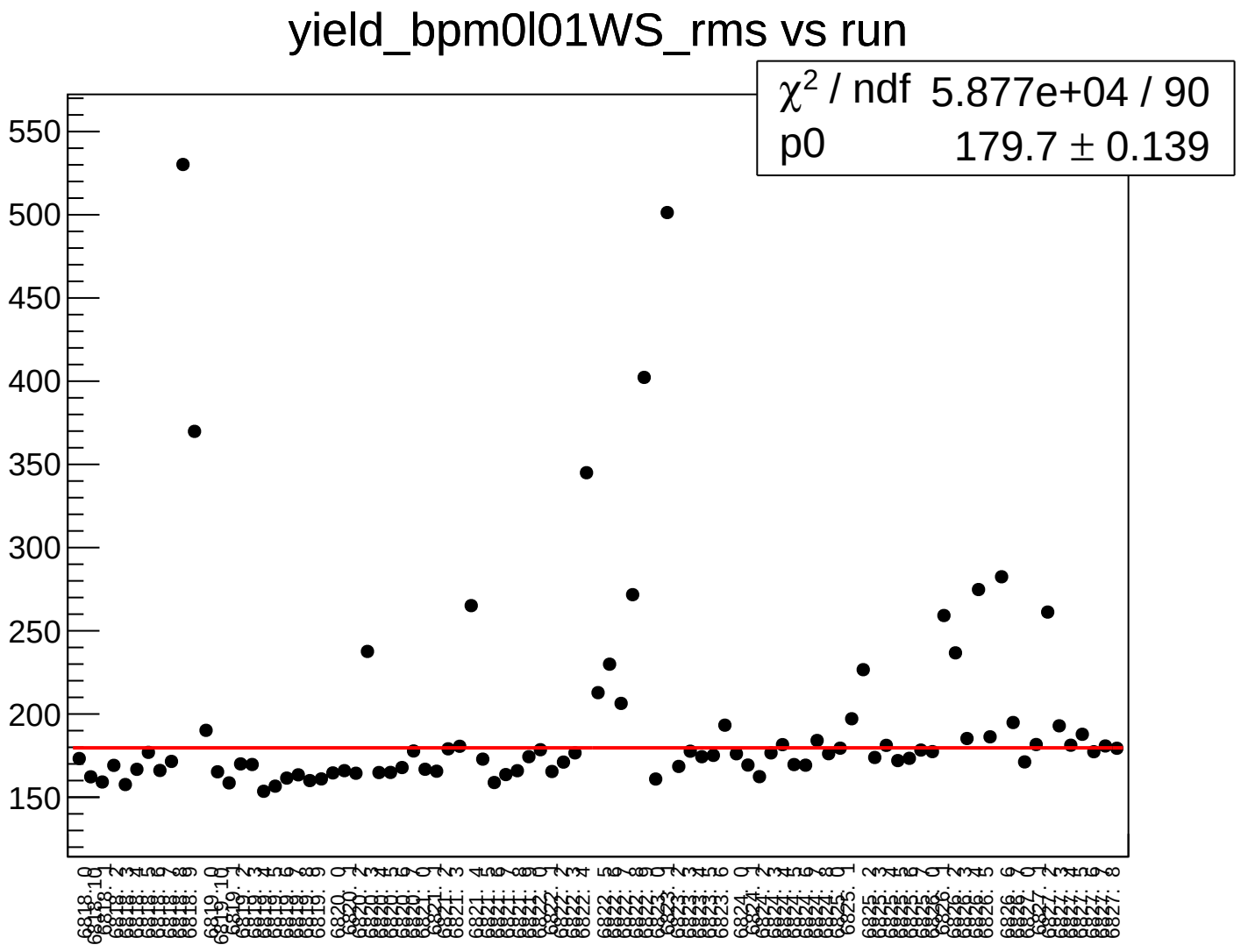

yield_bpm0i07WS_mean vs run
×10^3
155.1
155
154.9
154.8
154.7
154.6
154.5
χ² / ndf 2.184e+05 / 90
p0 1.549e+05 ± 0.2557
pull
Entries 91
Mean 1298
Std Dev 1249
100
50
0
−50
−100
−150

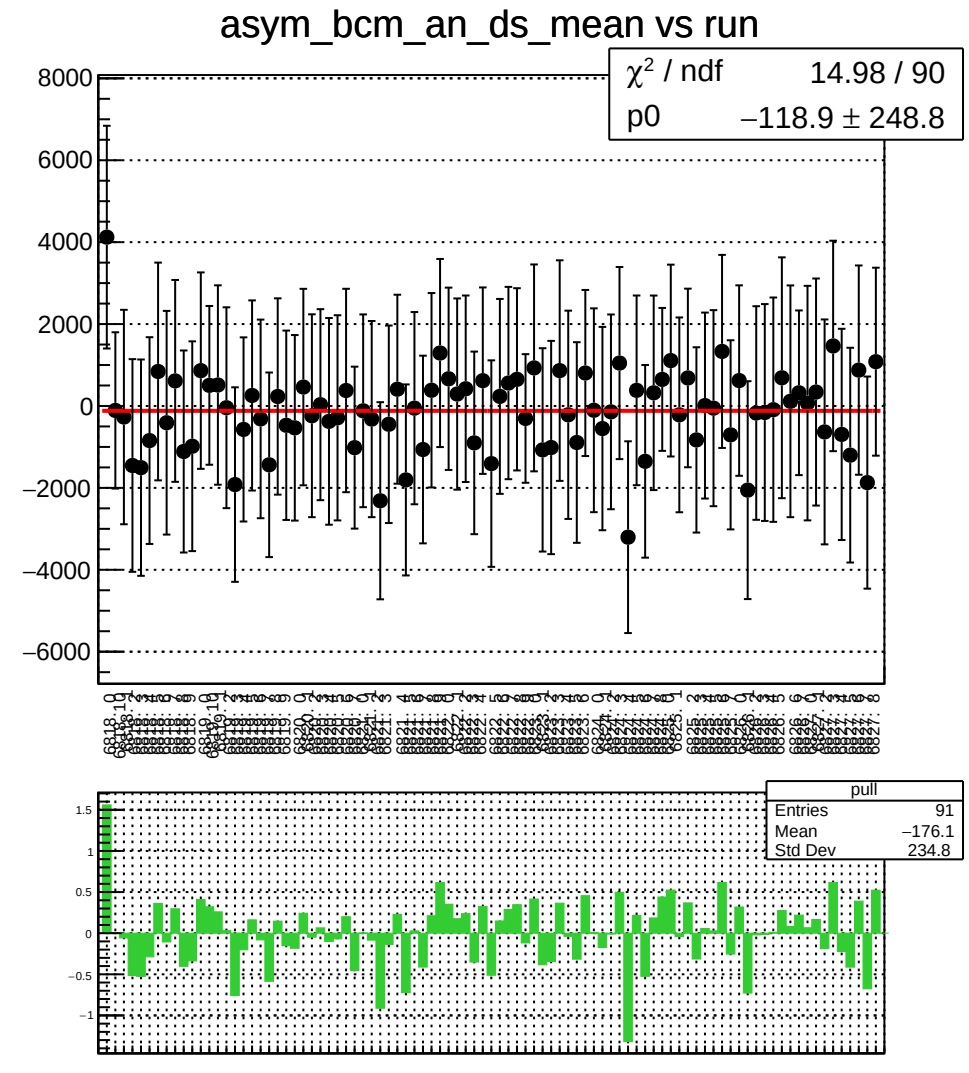

pull1D
Entries 91
Mean 1.614
Std Dev 4.299
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

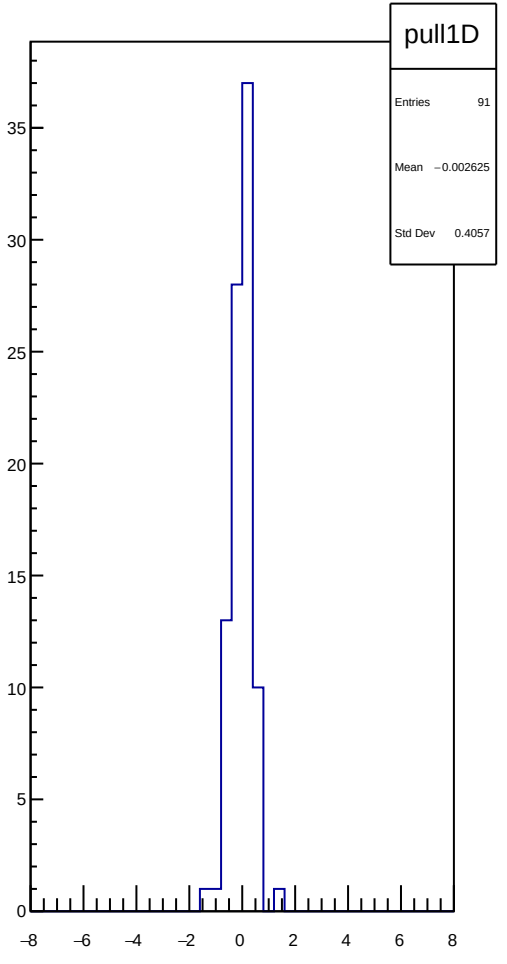

yield_bpm0i07WS_rms vs run
χ² / ndf 1.991e+04 / 90
p0 236.4 ± 0.1808
600
550
500
450
400
350
300
250
200

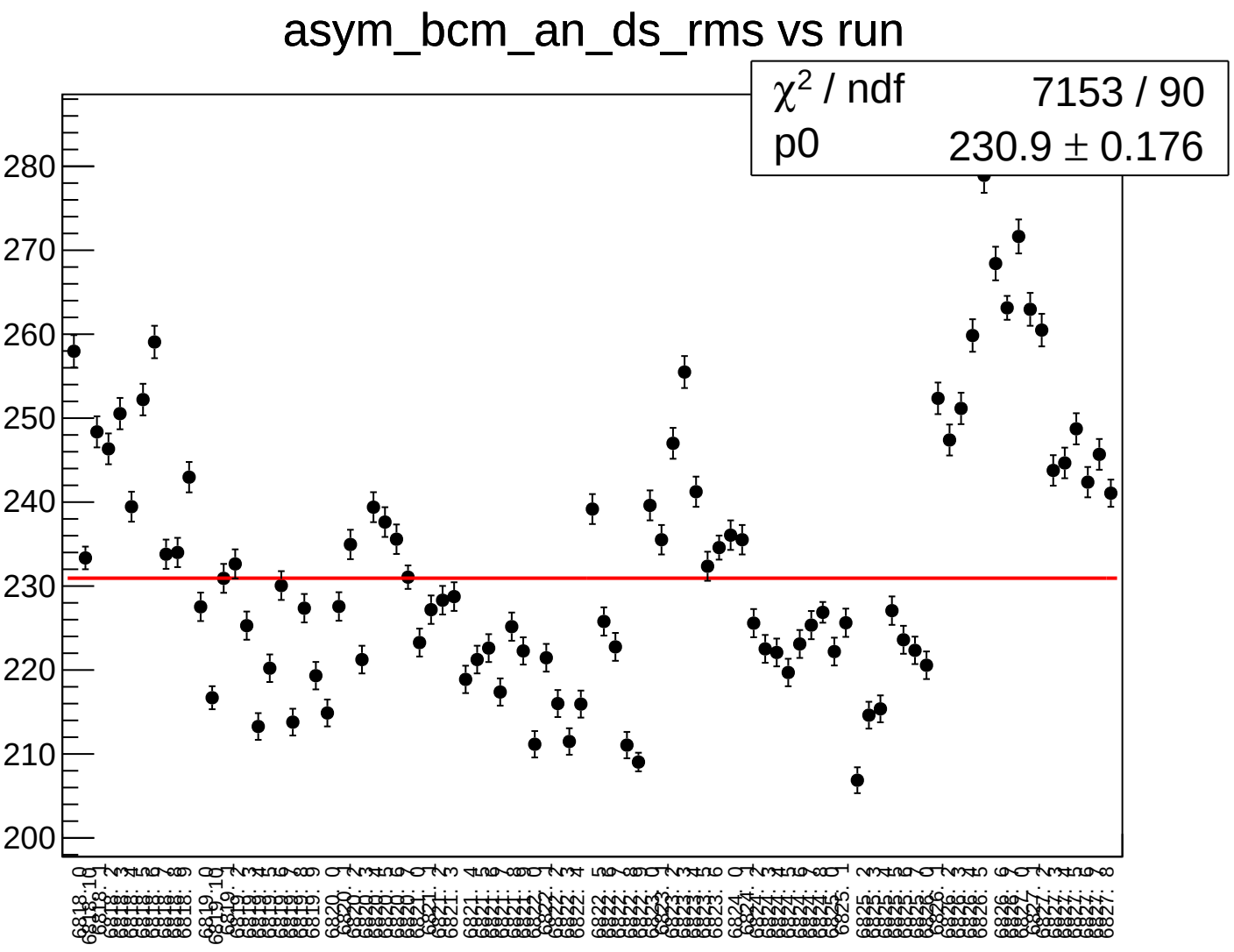

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 9.698e+05 / 90
p0 1.214e+05 ± 0.1965
121.8
121.6
121.4
121.2
121
120.8
120.6
120.4
pull
Entries 91
Mean 306.3
Std Dev 256
200
100
0
−100
−200
−300
−400
−500

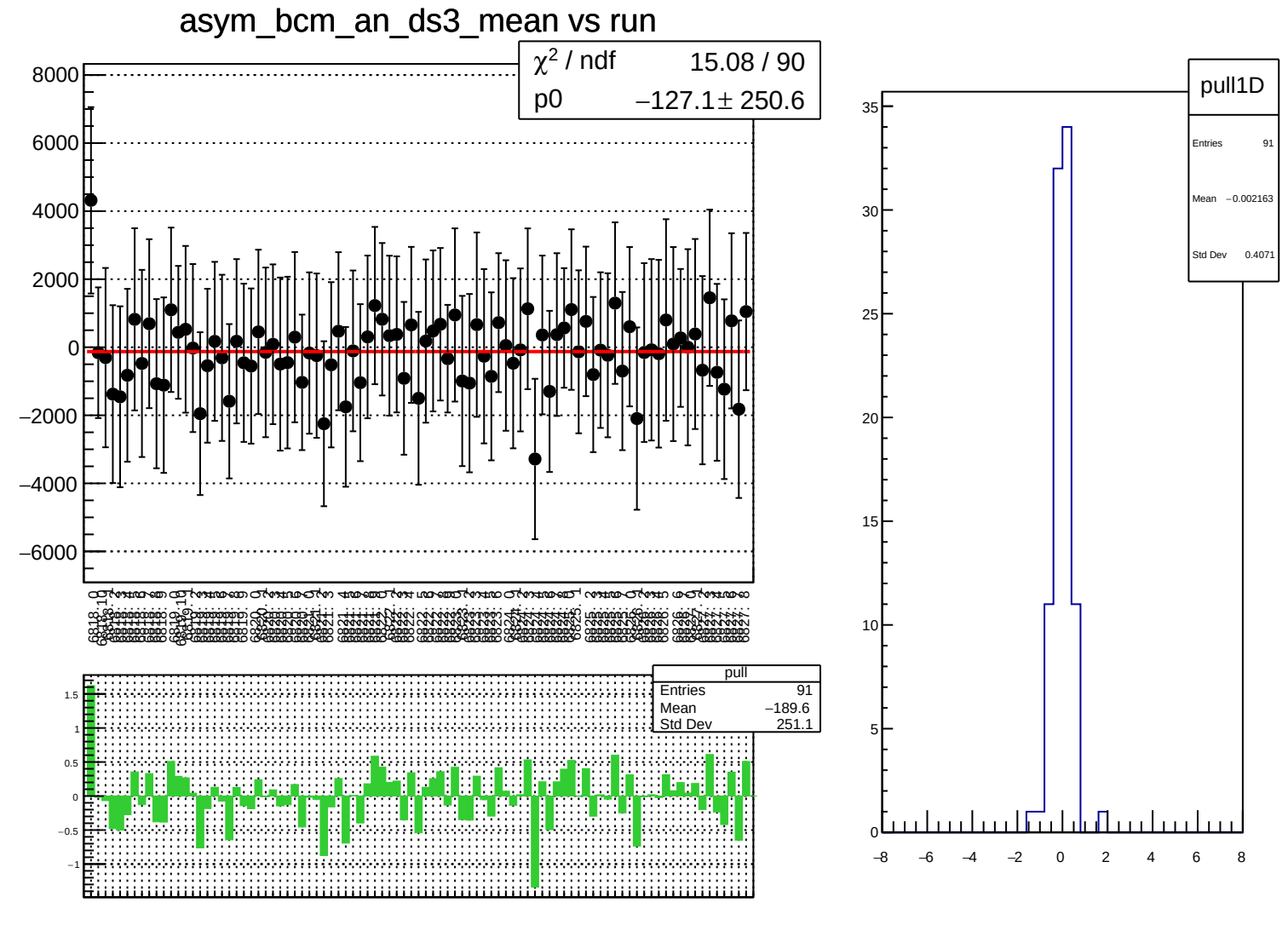

pull1D
Entries 91
Mean −0.3572
Std Dev 2.794
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

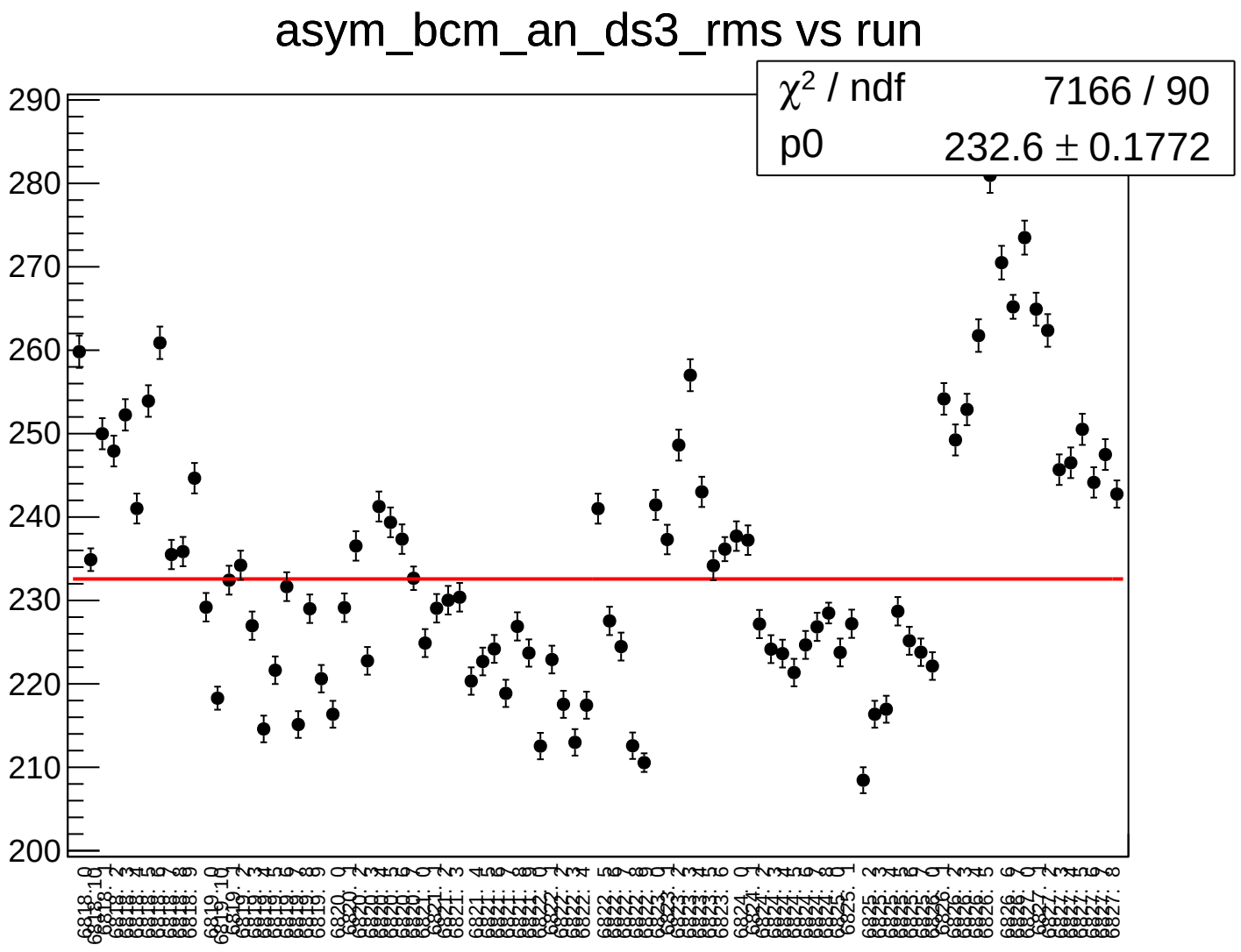

yield_bpm0l01WS_rms vs run
χ^2 / ndf 5.877e+04 / 90
p0 179.7 ± 0.139
550
500
450
400
350
300
250
200
150

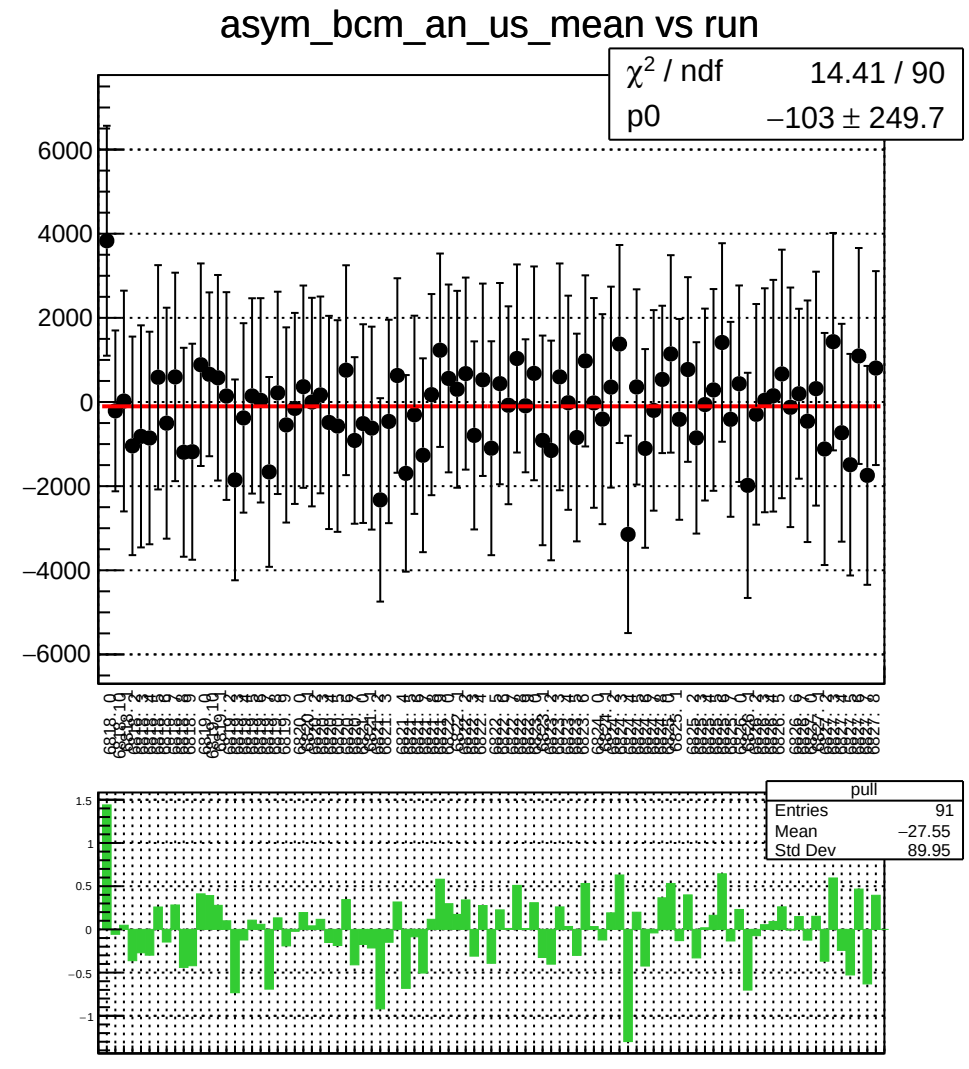

asym_bcm_an_ds_mean vs run
χ² / ndf 14.98 / 90
p0 −118.9 ± 248.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −176.1
Std Dev 234.8
1.5
1
0.5
0
−0.5
−1

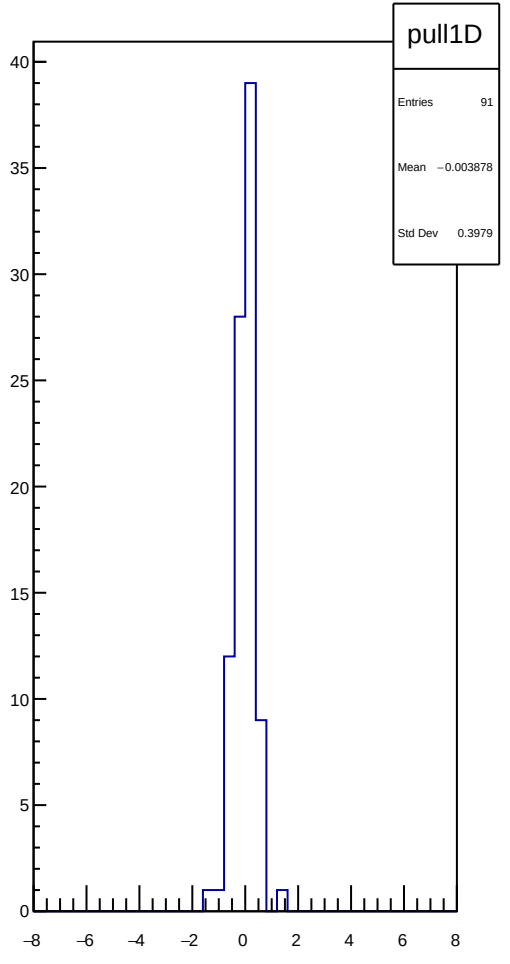

pull1D
Entries 91
Mean −0.002625
Std Dev 0.4057
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

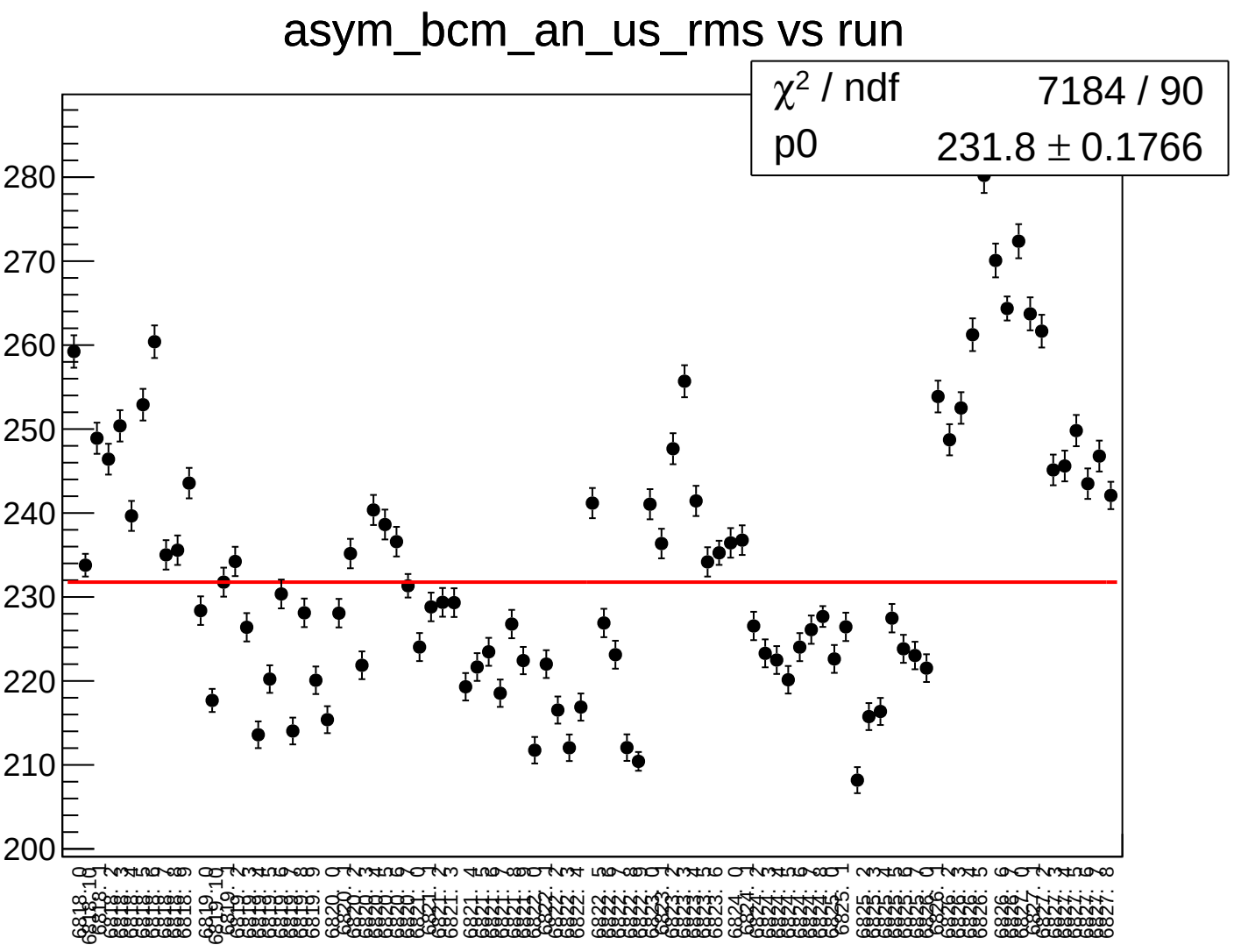

asym_bcm_an_ds_rms vs run
χ^2 / ndf 7153 / 90
p0 230.9 ± 0.176
280
270
260
250
240
230
220
210
200

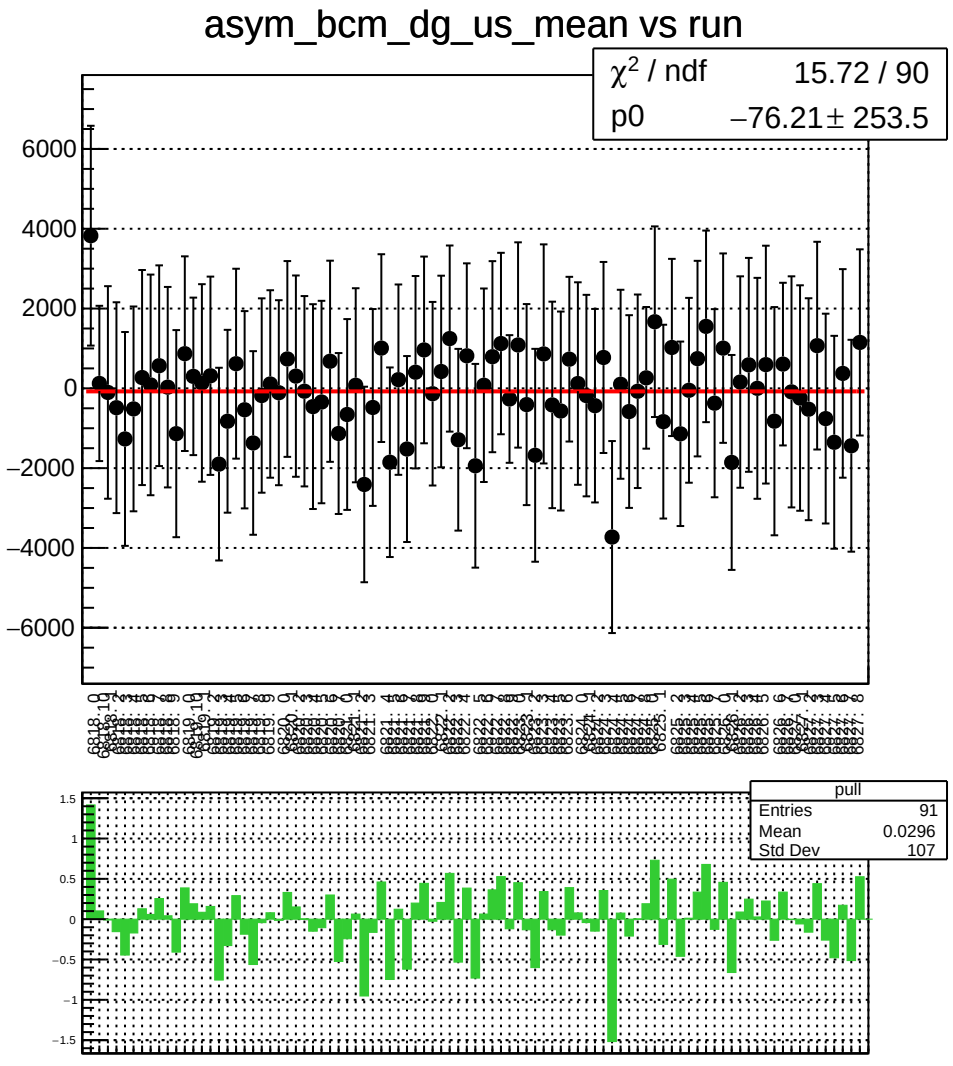

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.08 / 90
p0 −127.1± 250.6
pull
Entries 91
Mean −189.6
Std Dev 251.1
pull1D
Entries 91
Mean −0.002163
Std Dev 0.4071

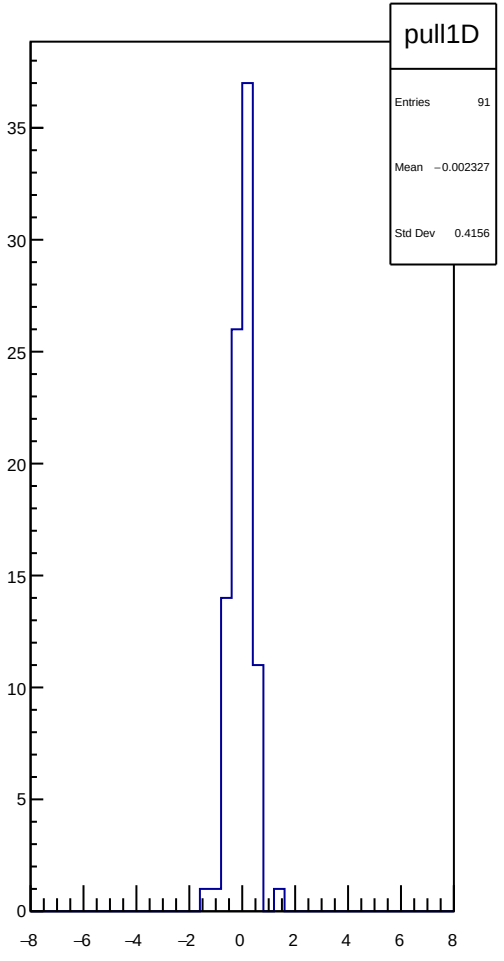

asym_bcm_an_ds3_rms vs run
χ² / ndf 7166 / 90
p0 232.6 ± 0.1772
290
280
270
260
250
240
230
220
210
200

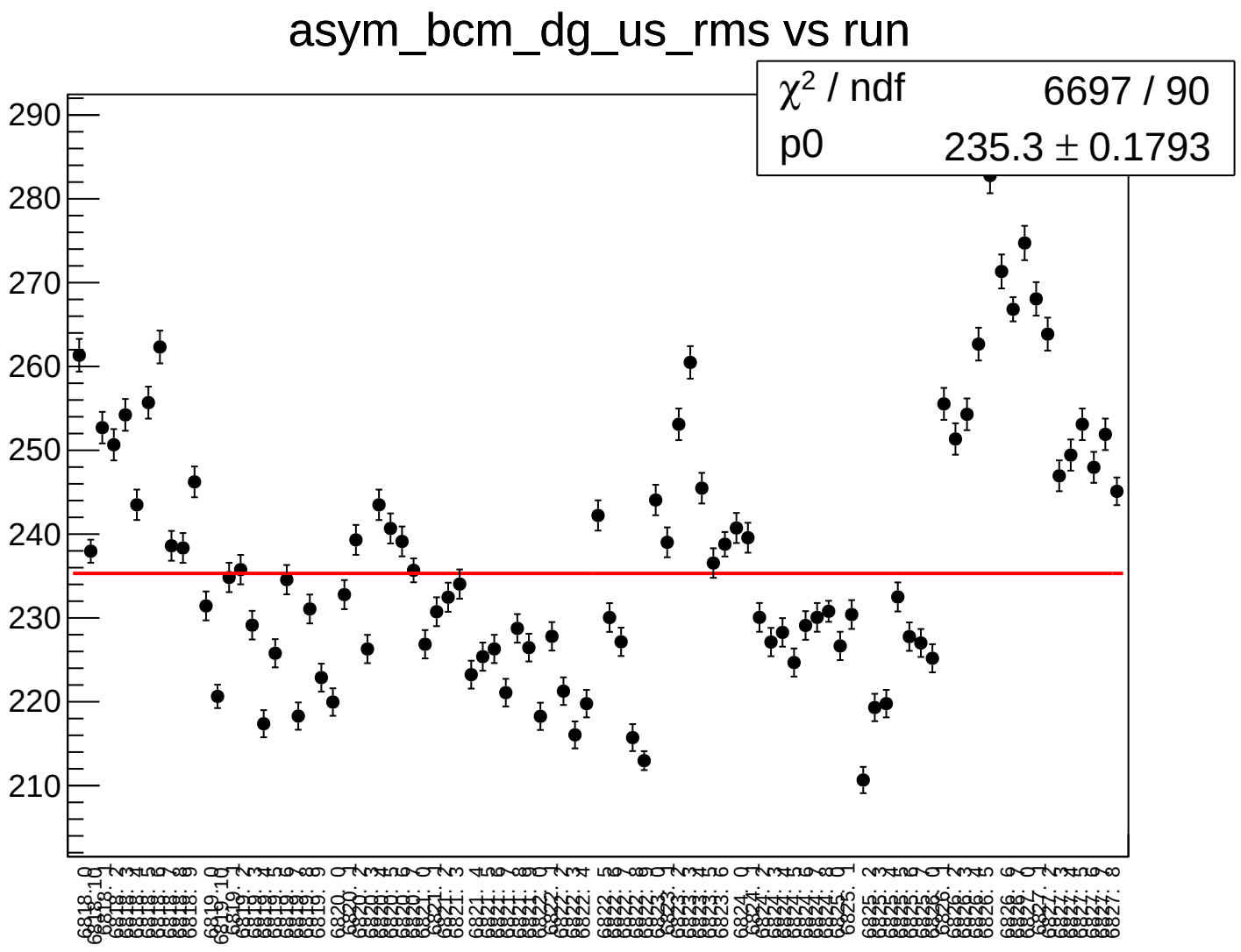

asym_bcm_an_us_mean vs run
χ² / ndf 14.41 / 90
p0 −103 ± 249.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −27.55
Std Dev 89.95
1.5
1
0.5
0
−0.5
−1

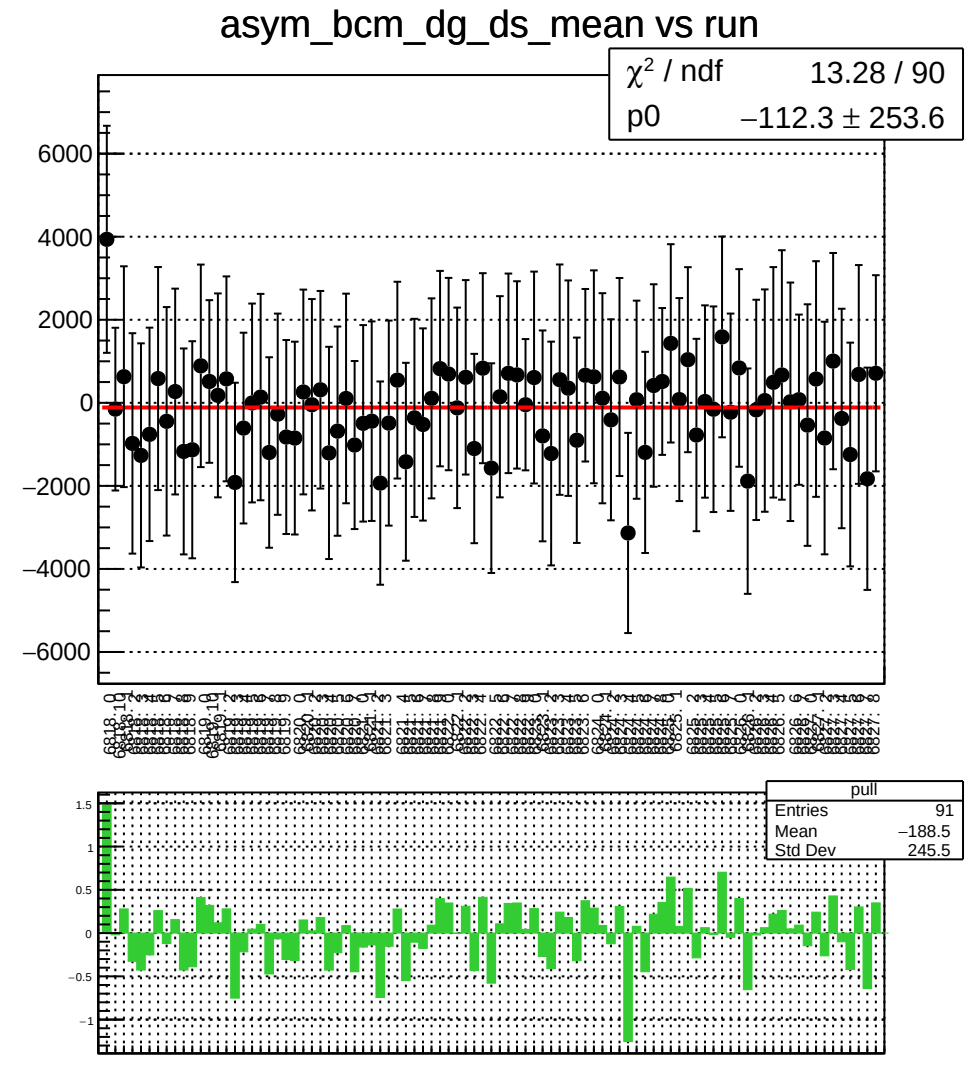

pull1D
Entries 91
Mean −0.003878
Std Dev 0.3979
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

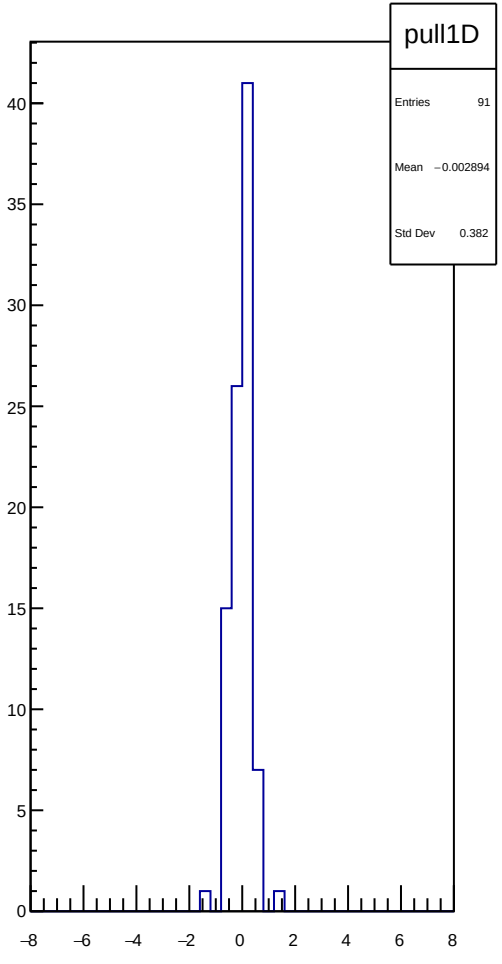

asym_bcm_an_us_rms vs run
χ^2 / ndf 7184 / 90
p0 231.8 ± 0.1766
280
270
260
250
240
230
220
210
200

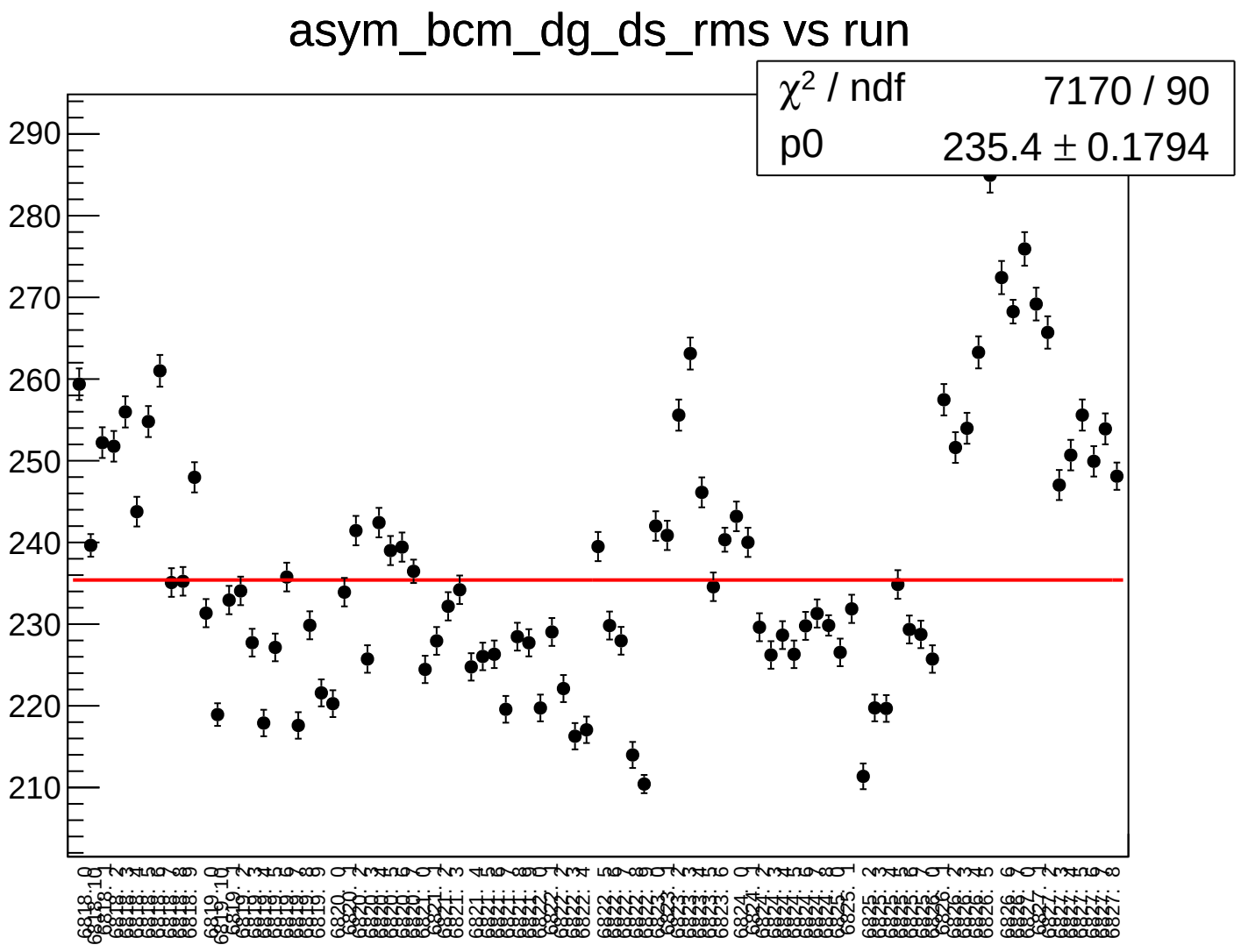

asym_bcm_dg_us_mean vs run
χ² / ndf 15.72 / 90
p0 −76.21 ± 253.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 0.0296
Std Dev 107
1.5
1
0.5
0
−0.5
−1
−1.5

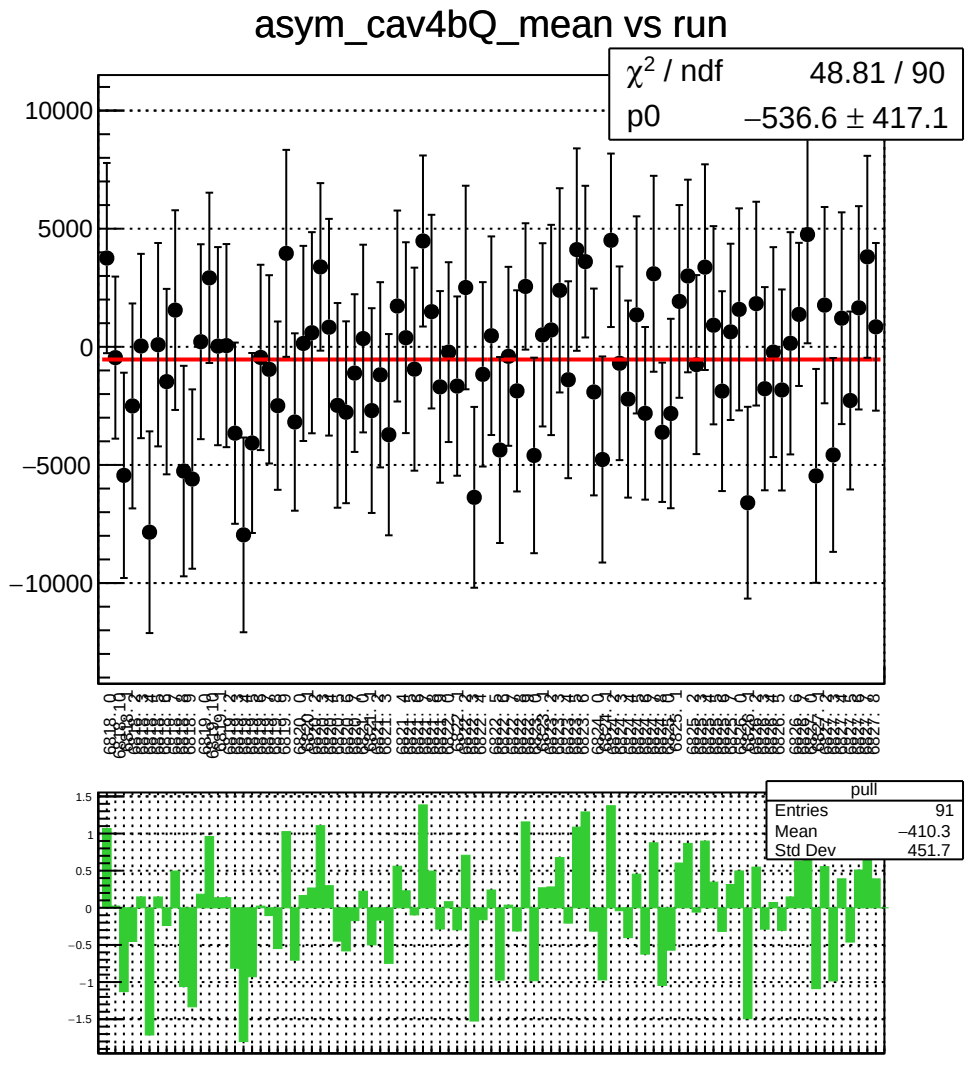

pull1D
Entries 91
Mean −0.002327
Std Dev 0.4156
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

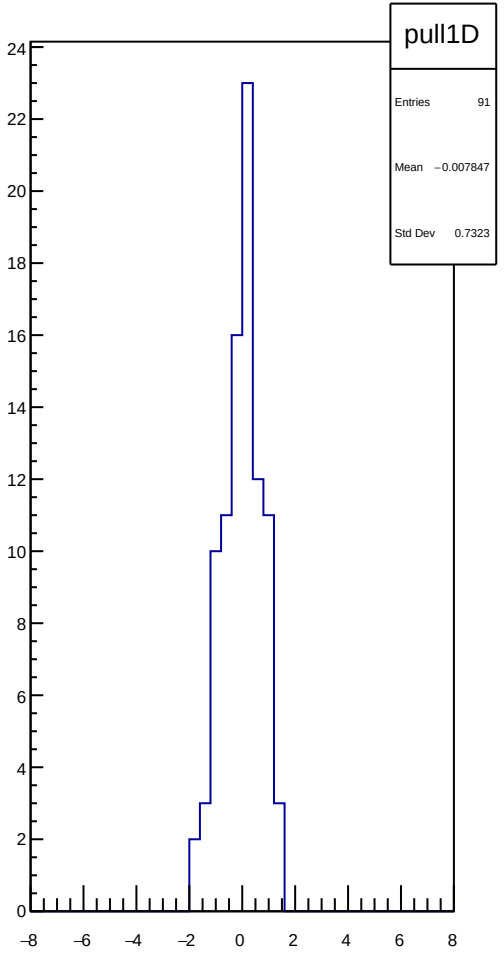

asym_bcm_dg_us_rms vs run
χ^2 / ndf 6697 / 90
p0 235.3 ± 0.1793
290
280
270
260
250
240
230
220
210

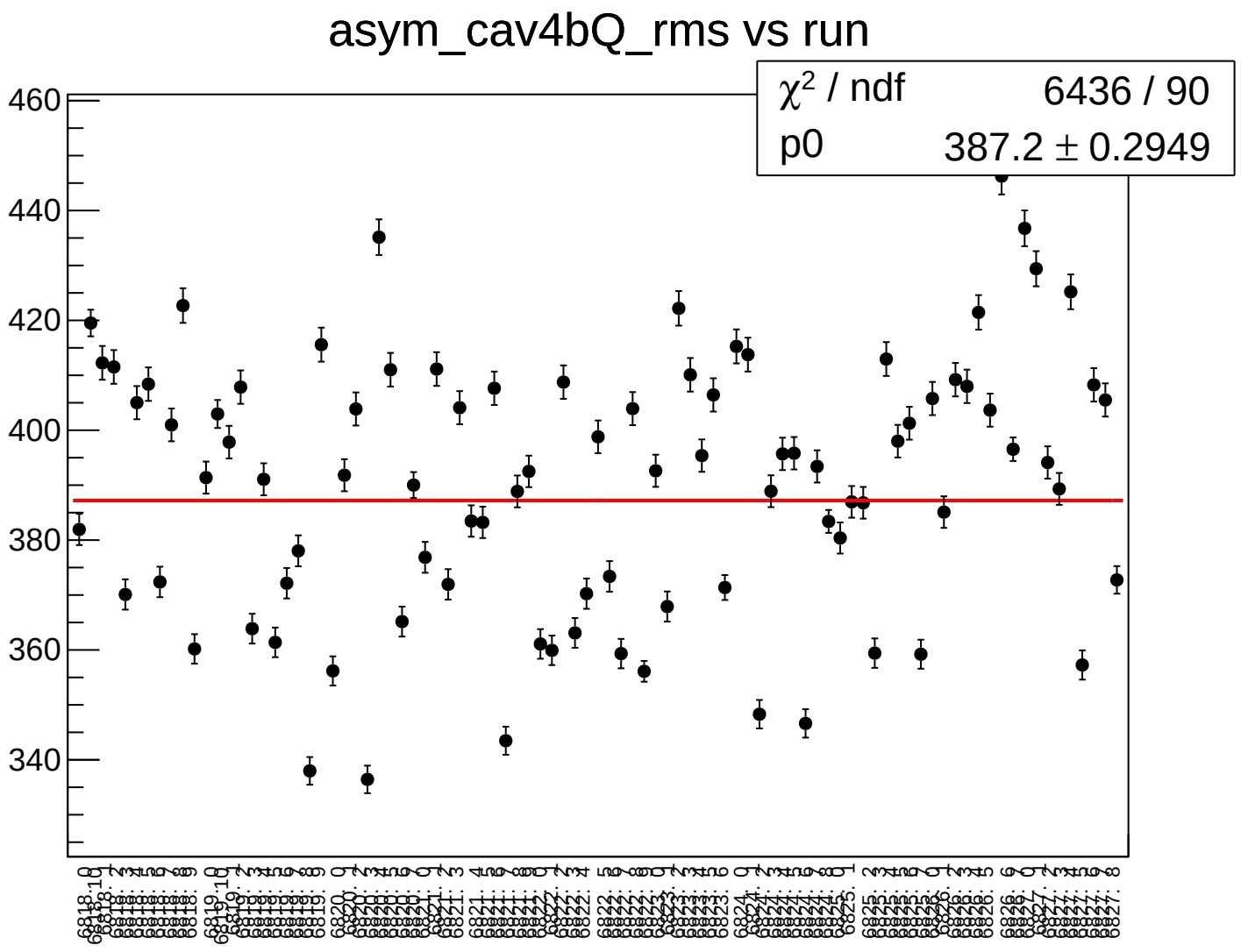

asym_bcm_dg_ds_mean vs run
χ² / ndf 13.28 / 90
p0 −112.3 ± 253.6
pull
Entries 91
Mean −188.5
Std Dev 245.5

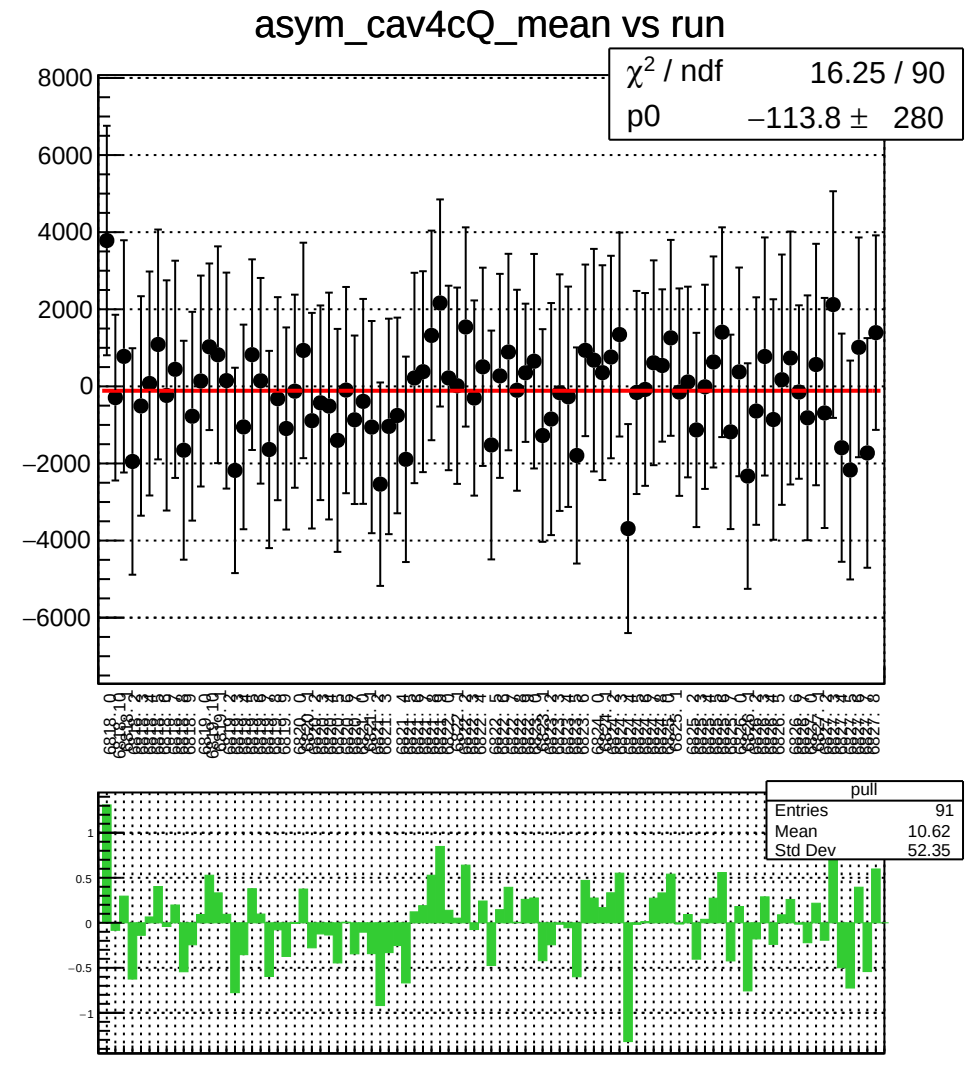

pull1D
Entries 91
Mean −0.002894
Std Dev 0.382

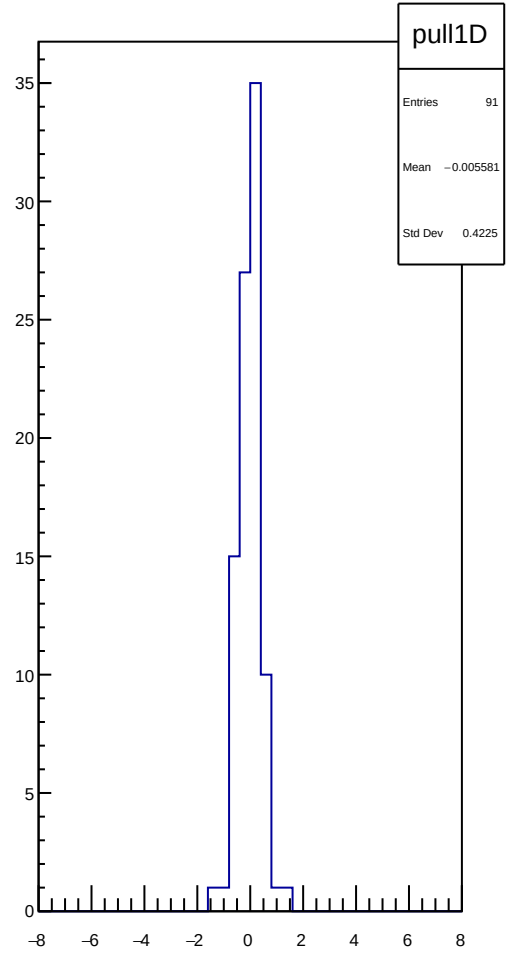

asym_bcm_dg_ds_rms vs run
χ² / ndf 7170 / 90
p0 235.4 ± 0.1794
290
280
270
260
250
240
230
220
210

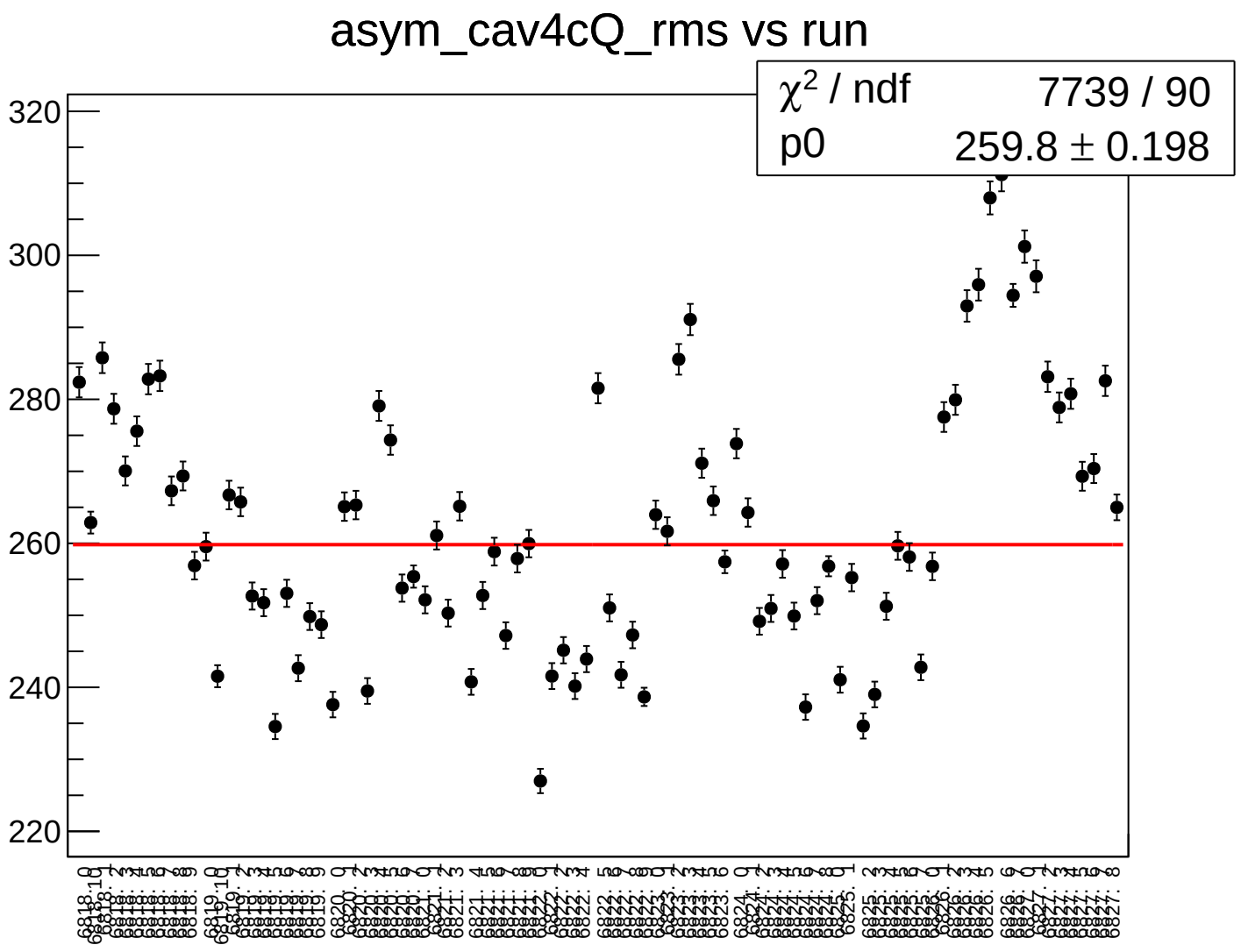

asym_cav4bQ_mean vs run
χ² / ndf 48.81 / 90
p0 −536.6 ± 417.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −410.3
Std Dev 451.7
1.5
1
0.5
0
−0.5
−1
−1.5

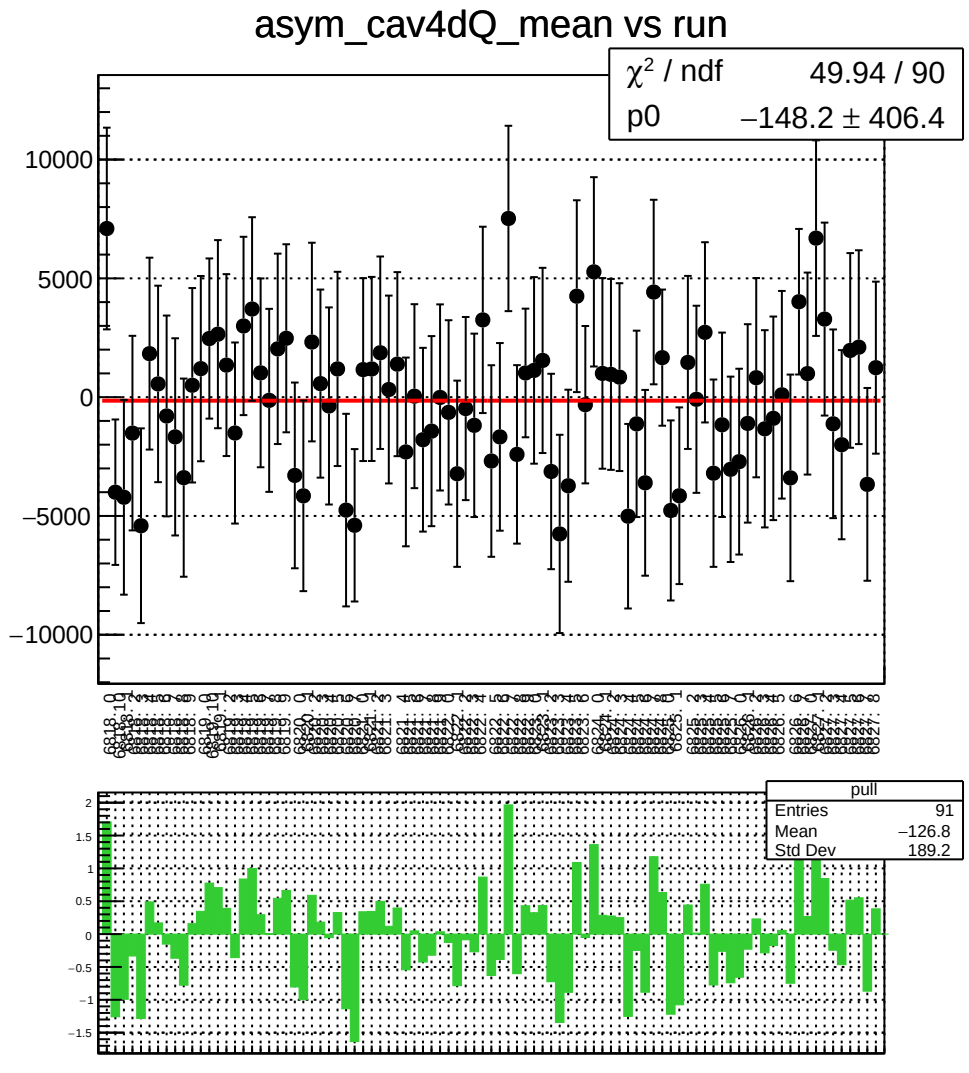

pull1D
Entries 91
Mean −0.007847
Std Dev 0.7323
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

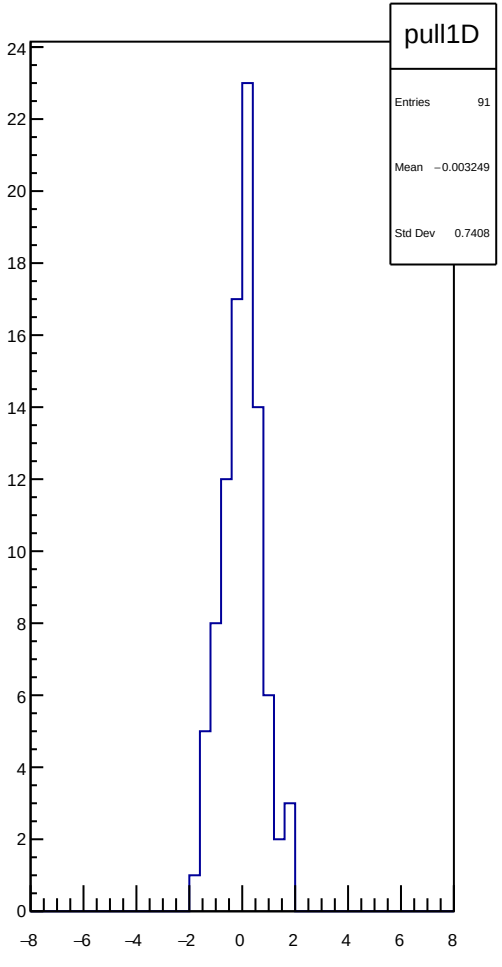

asym_cav4bQ_rms vs run
χ² / ndf 6436 / 90
p0 387.2 ± 0.2949
460
440
420
400
380
360
340

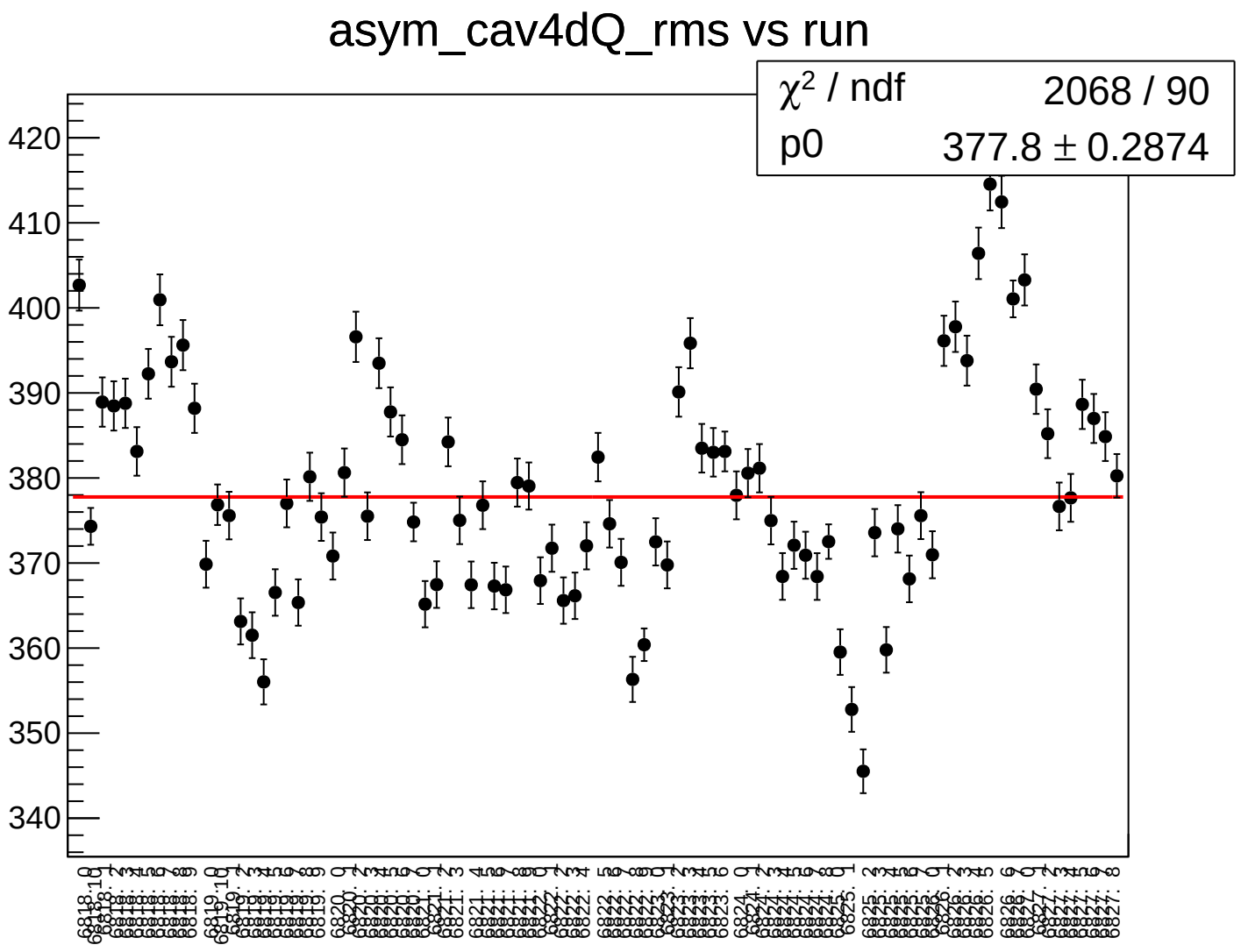

asym_cav4cQ_mean vs run
χ² / ndf 16.25 / 90
p0 −113.8 ± 280
pull
Entries 91
Mean 10.62
Std Dev 52.35

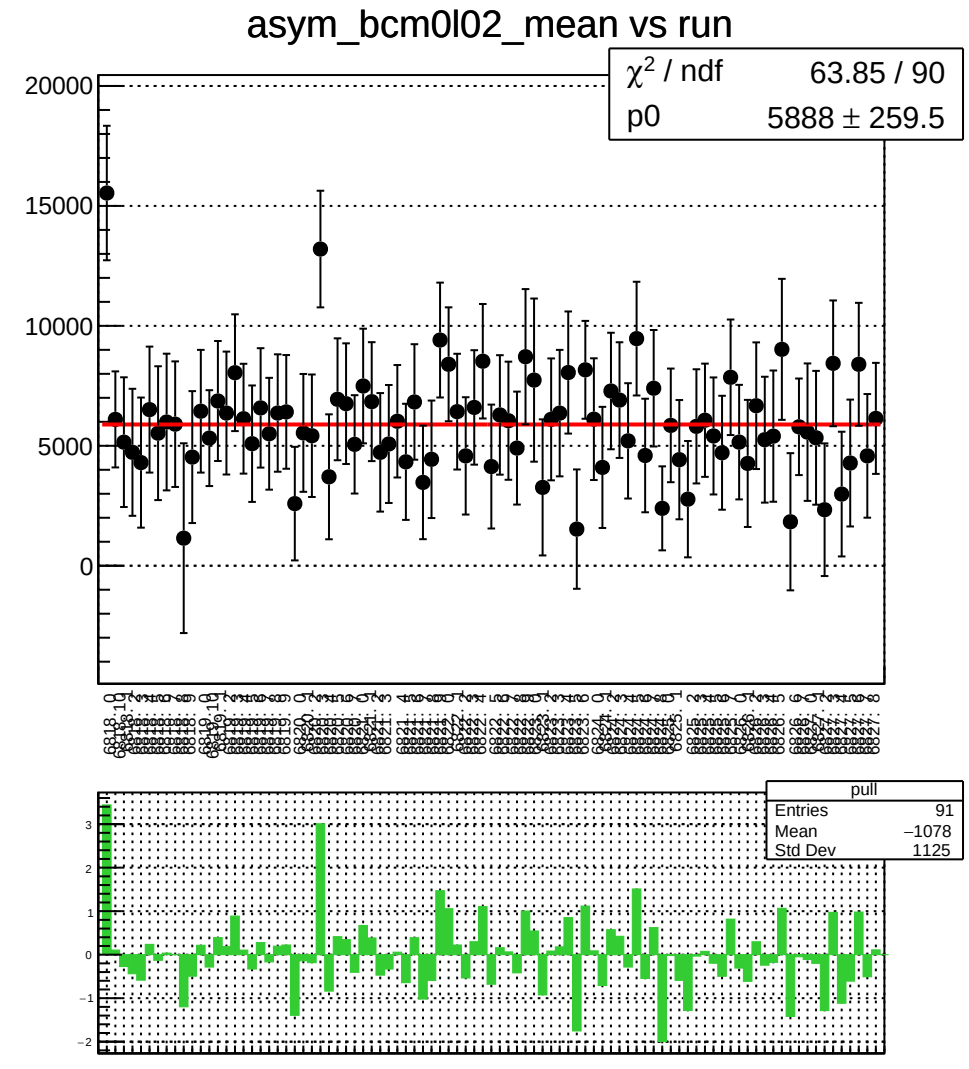

pull1D
Entries 91
Mean −0.005581
Std Dev 0.4225

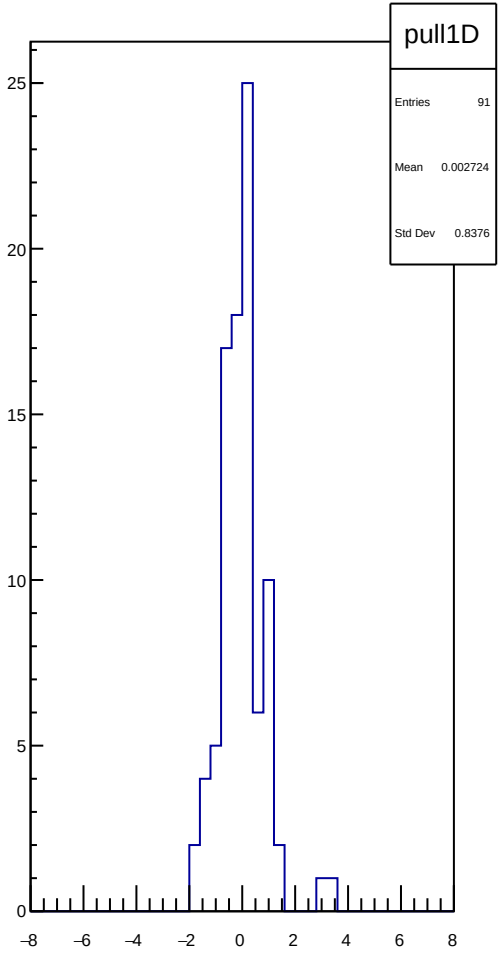

asym_cav4cQ_rms vs run
χ² / ndf 7739 / 90
p0 259.8 ± 0.198
320
300
280
260
240
220

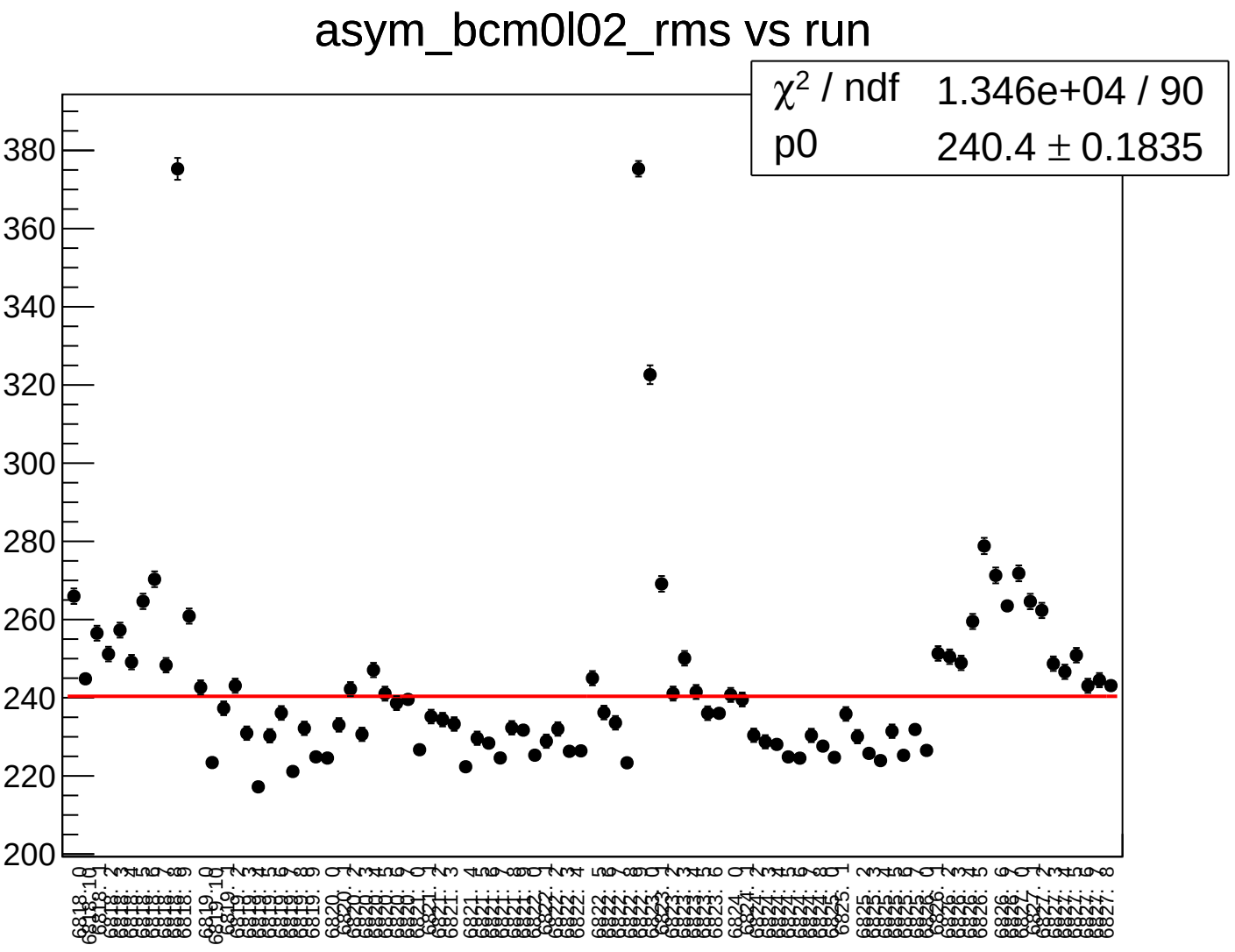

asym_cav4dQ_mean vs run
χ² / ndf 49.94 / 90
p0 −148.2 ± 406.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −126.8
Std Dev 189.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

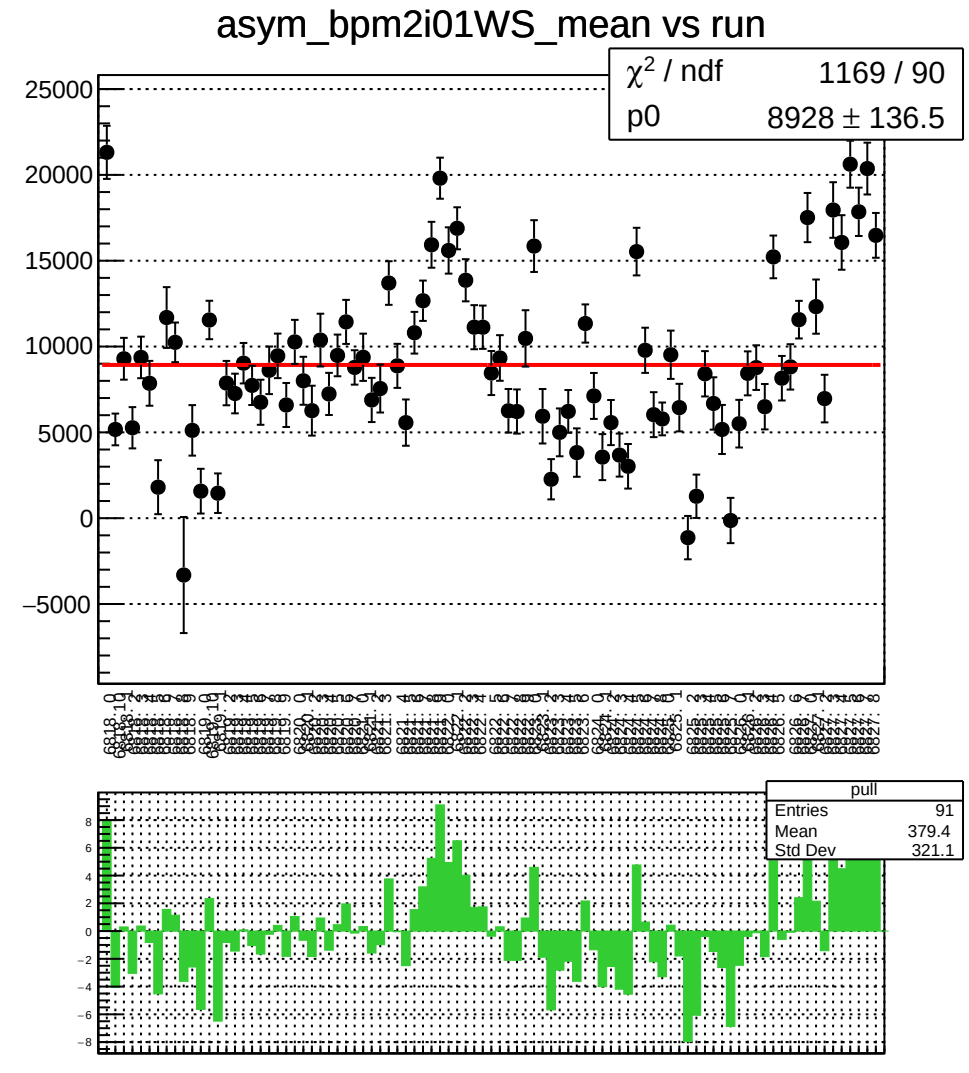

pull1D
Entries 91
Mean −0.003249
Std Dev 0.7408
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

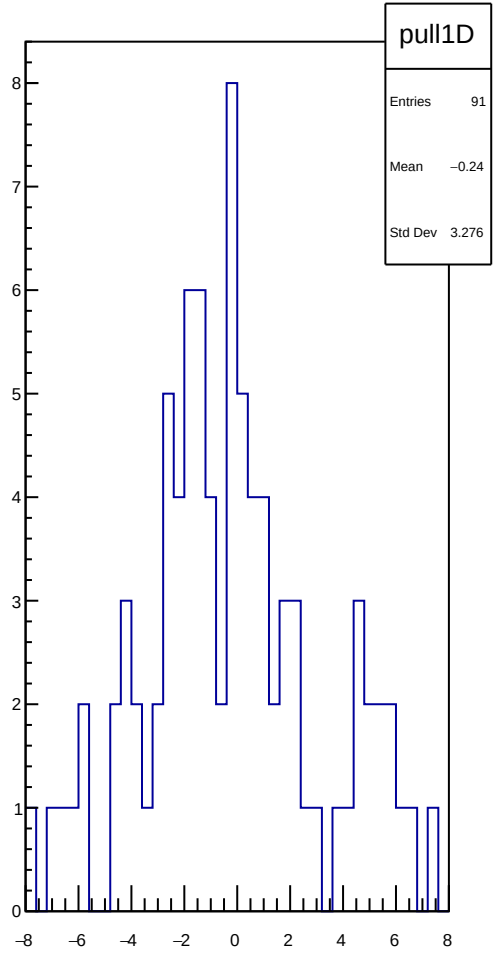

asym_cav4dQ_rms vs run
χ² / ndf 2068 / 90
p0 377.8 ± 0.2874
420
410
400
390
380
370
360
350
340

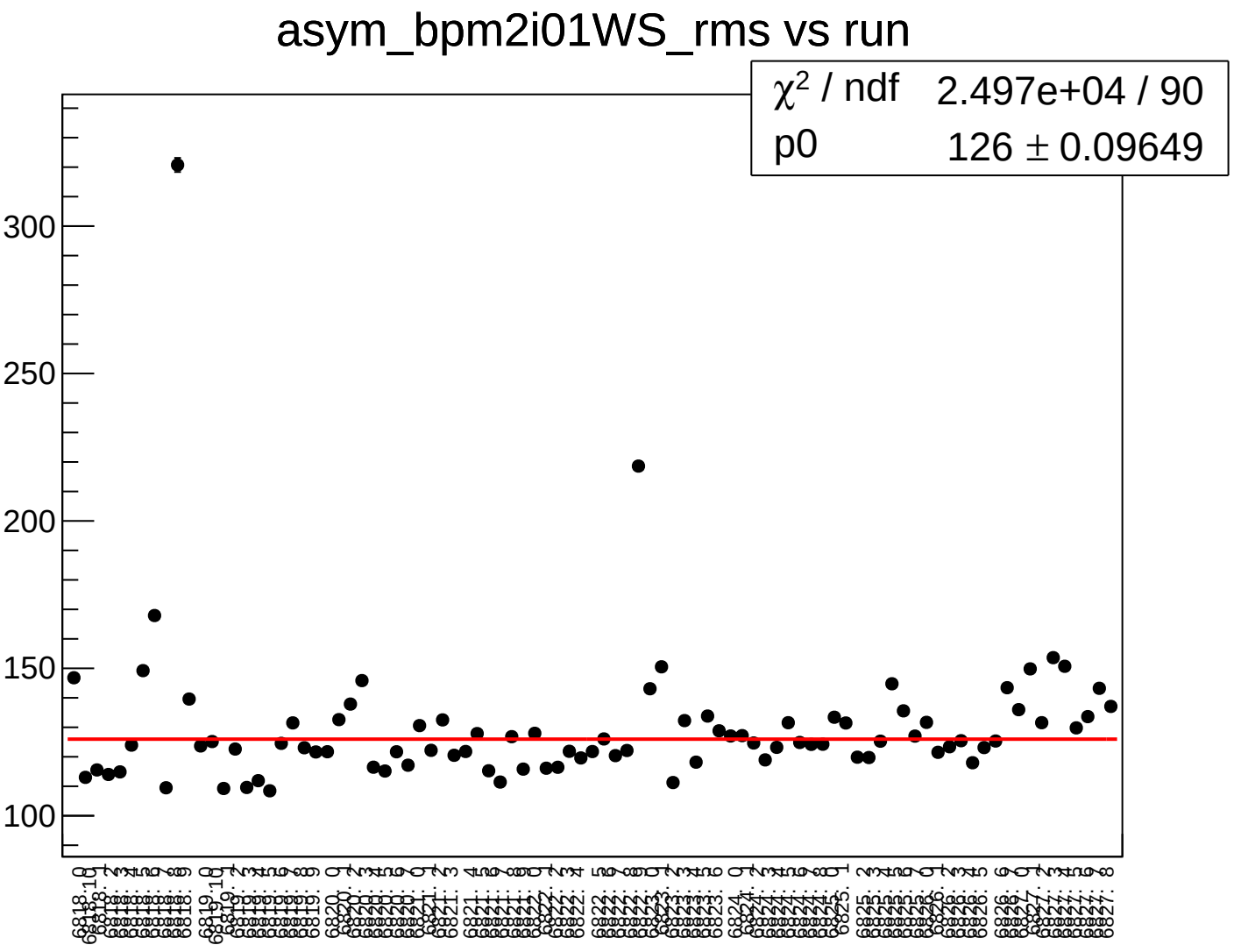

asym_bcm0l02_mean vs run
χ² / ndf 63.85 / 90
p0 5888 ± 259.5
20000
15000
10000
5000
0
pull
Entries 91
Mean −1078
Std Dev 1125
3
2
1
0
−1
−2

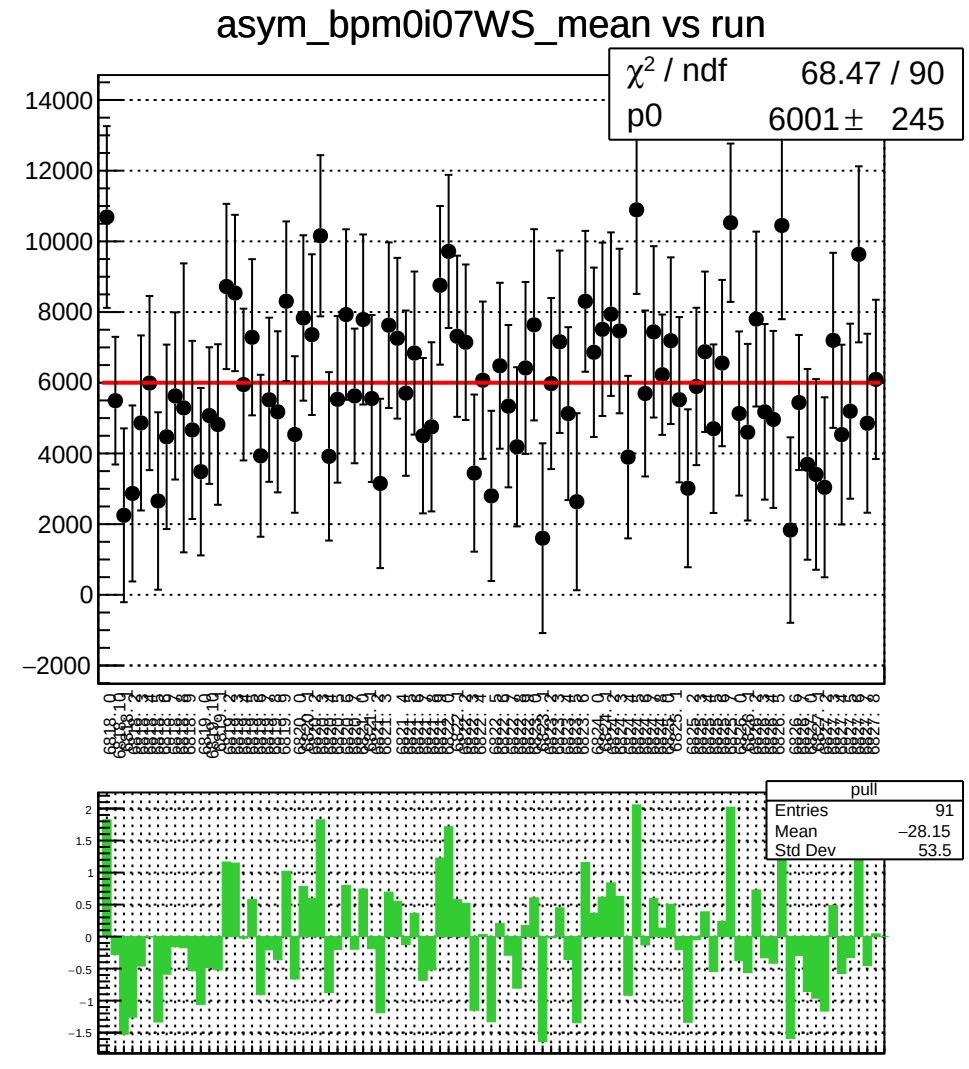

pull1D
Entries 91
Mean 0.002724
Std Dev 0.8376
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

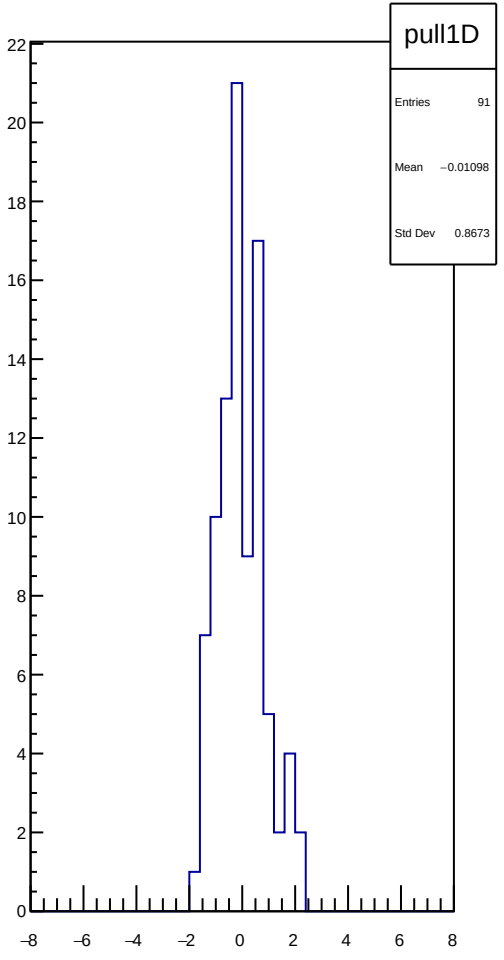

asym_bcm0l02_rms vs run
χ² / ndf 1.346e+04 / 90
p0 240.4 ± 0.1835
380
360
340
320
300
280
260
240
220
200

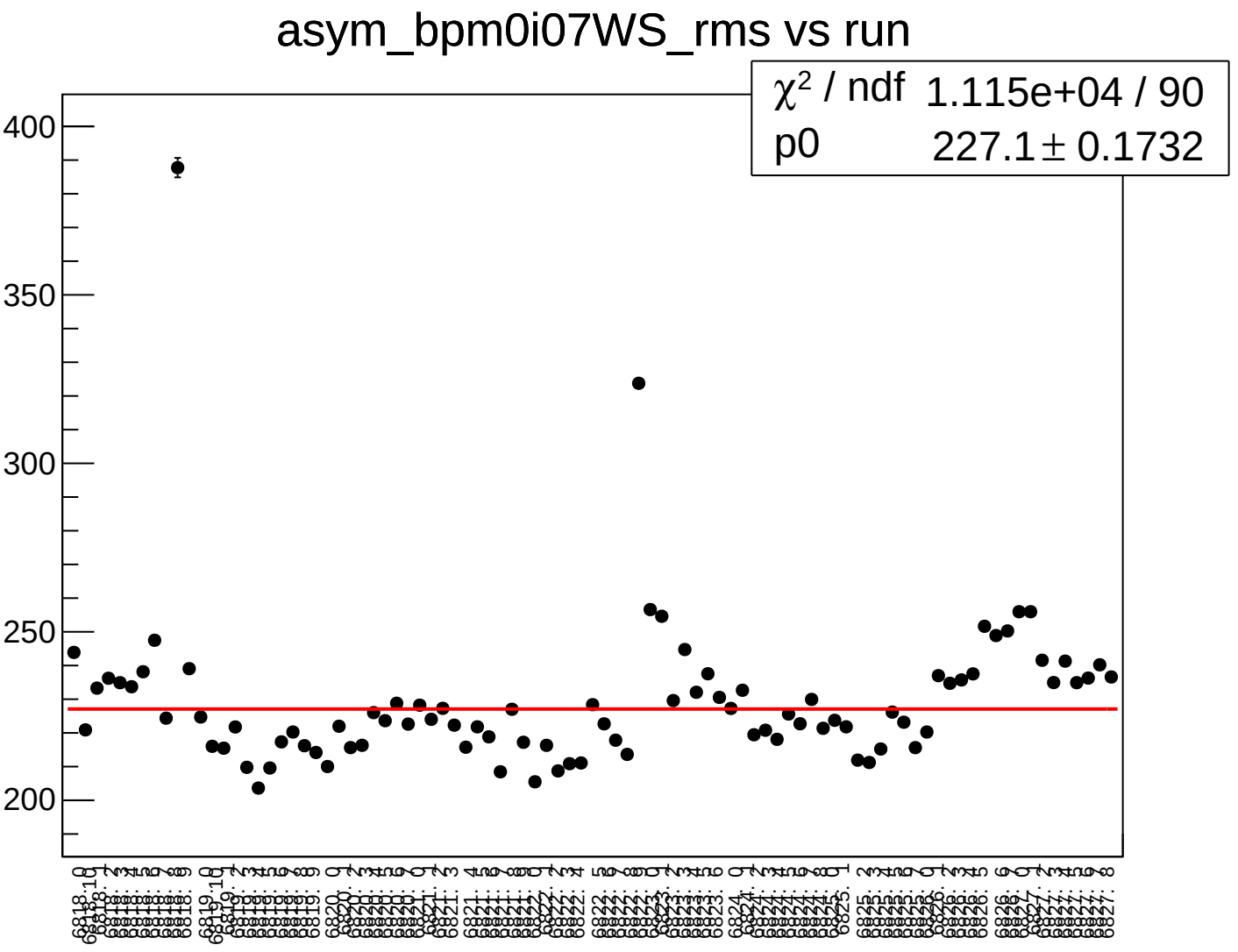

asym_bpm2i01WS_mean vs run
χ² / ndf 1169 / 90
p0 8928 ± 136.5
25000
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 379.4
Std Dev 321.1
8
6
4
2
0
−2
−4
−6
−8

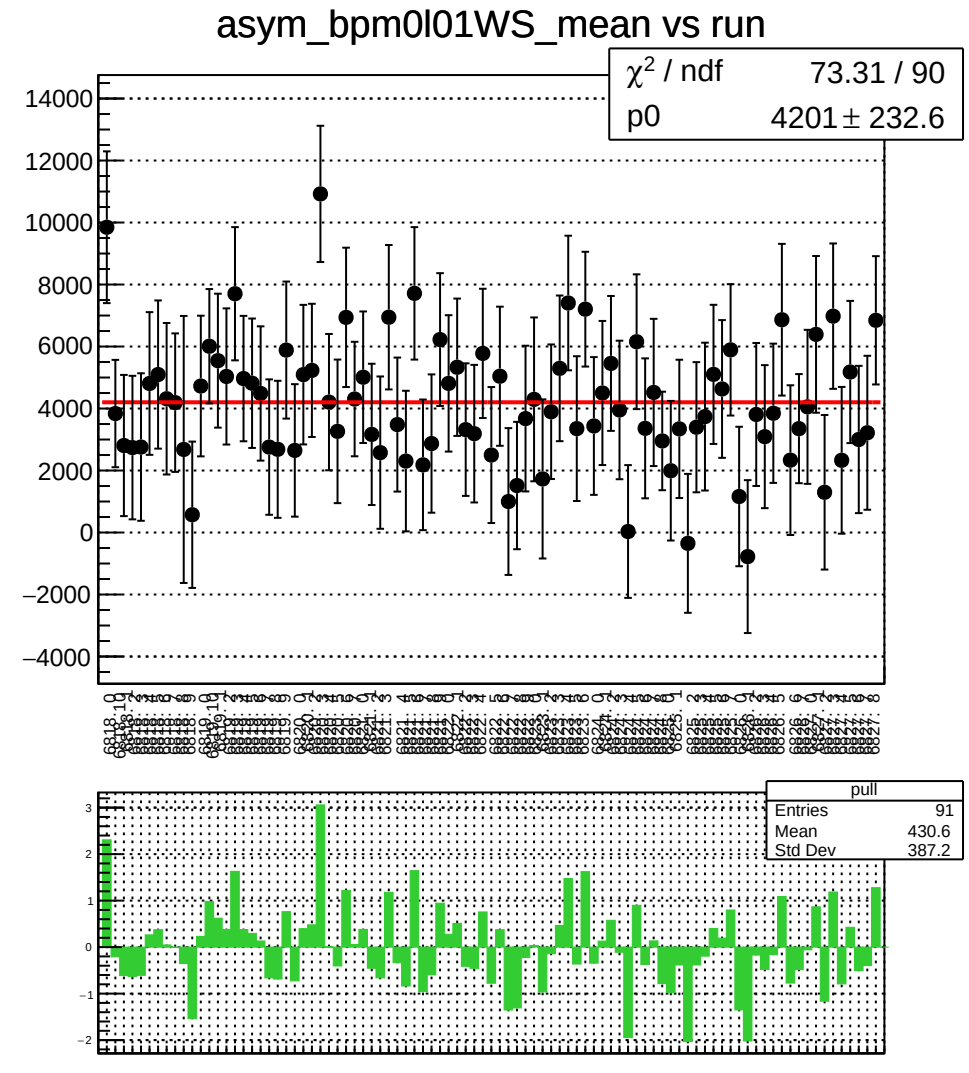

pull1D
Entries 91
Mean −0.24
Std Dev 3.276
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

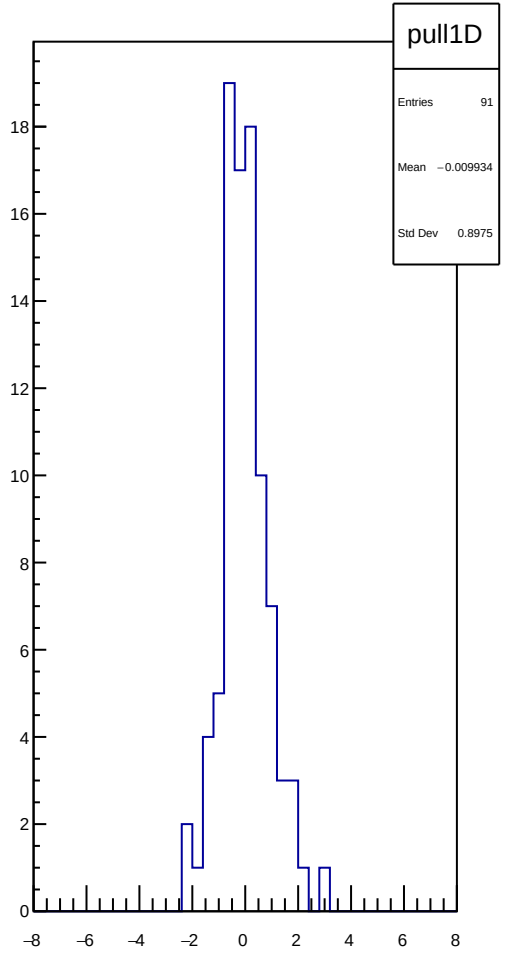

asym_bpm2i01WS_rms vs run
χ² / ndf 2.497e+04 / 90
p0 126 ± 0.09649
300
250
200
150
100

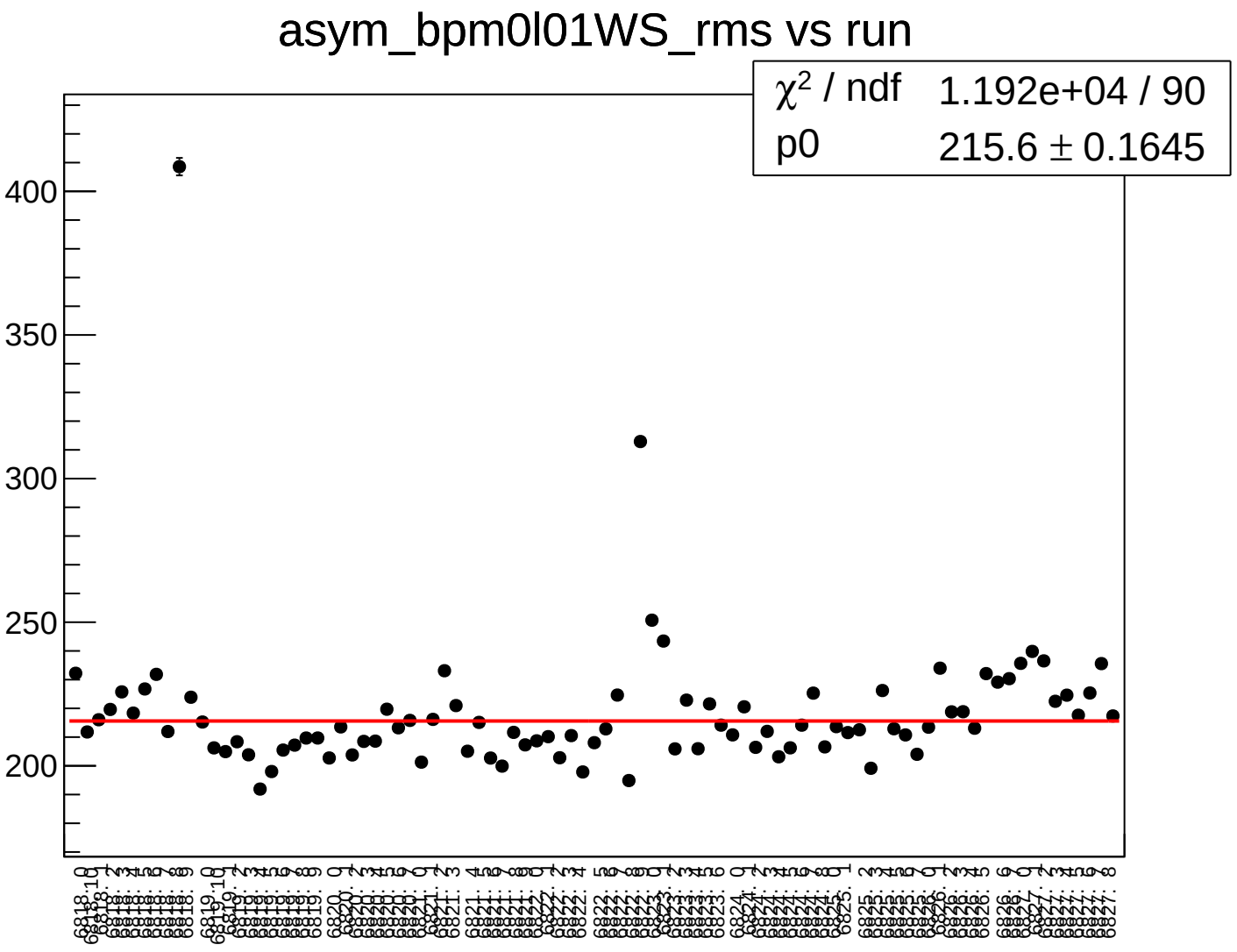

asym_bpm0i07WS_mean vs run
χ² / ndf 68.47 / 90
p0 6001 ± 245
pull
Entries 91
Mean −28.15
Std Dev 53.5

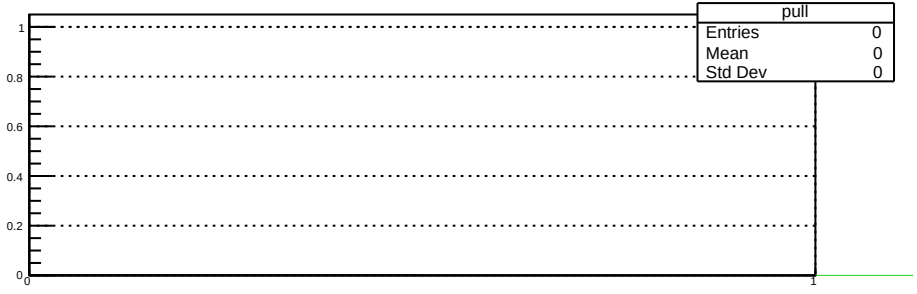

pull1D
Entries 91
Mean −0.01098
Std Dev 0.8673

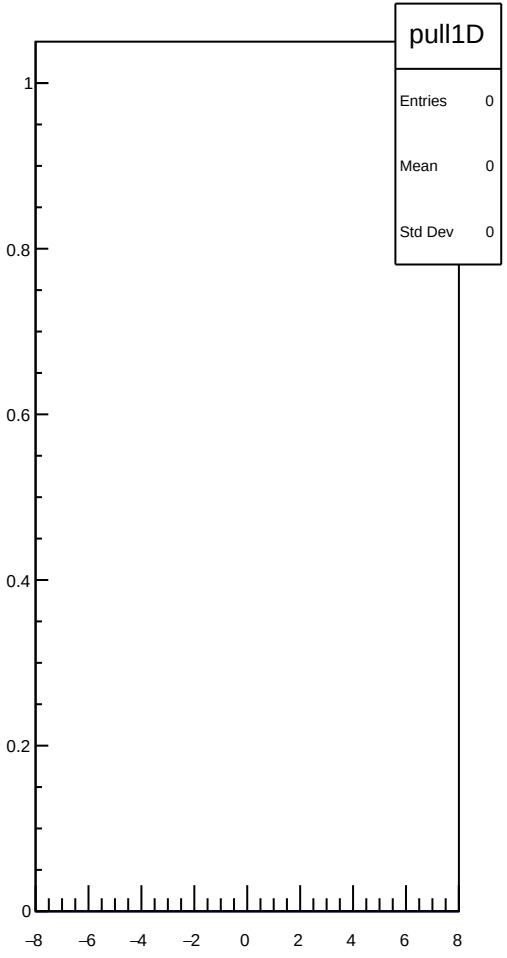

asym_bpm0i07WS_rms vs run
χ² / ndf 1.115e+04 / 90
p0 227.1 ± 0.1732
400
350
300
250
200

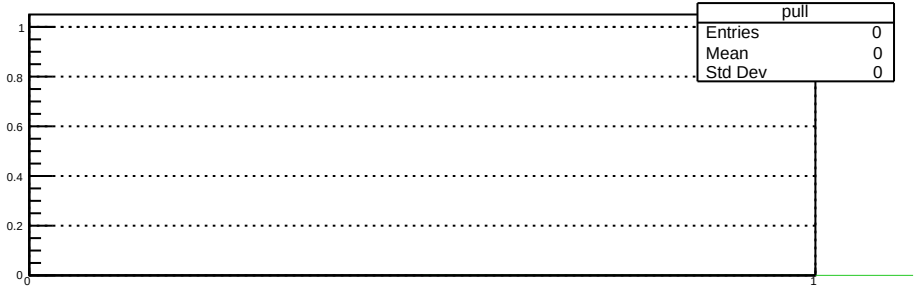

asym_bpm0l01WS_mean vs run
χ² / ndf 73.31 / 90
p0 4201 ± 232.6
pull
Entries 91
Mean 430.6
Std Dev 387.2

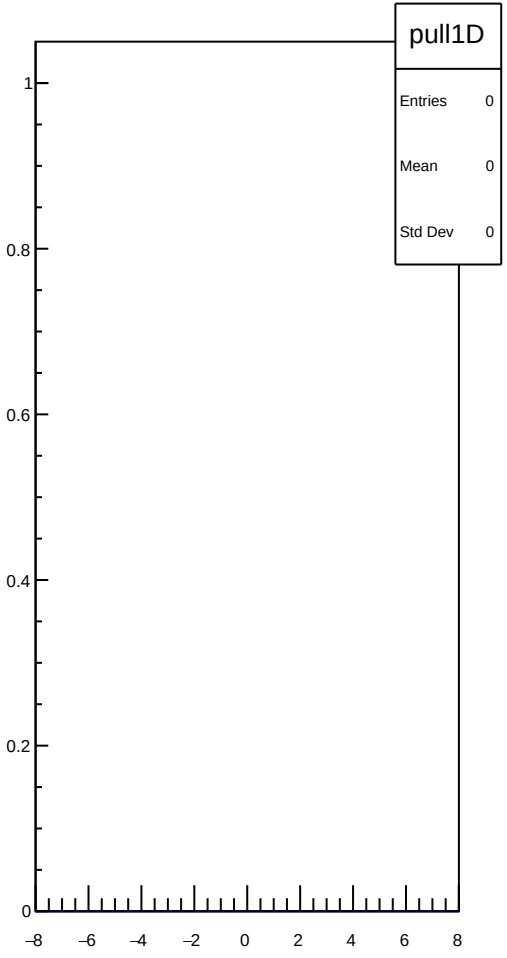

pull1D
Entries 91
Mean −0.009934
Std Dev 0.8975

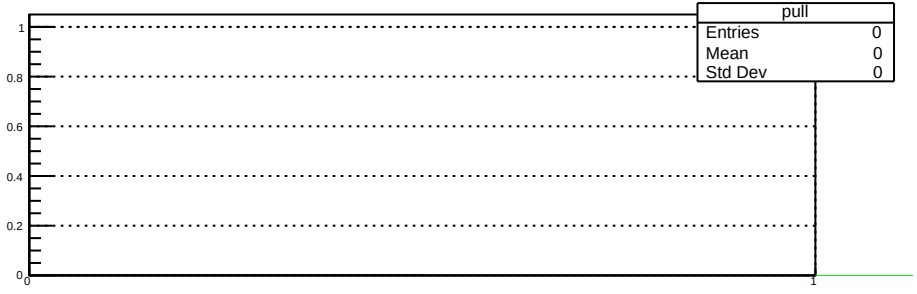

asym_bpm0l01WS_rms vs run
χ² / ndf 1.192e+04 / 90
p0 215.6 ± 0.1645
400
350
300
250
200

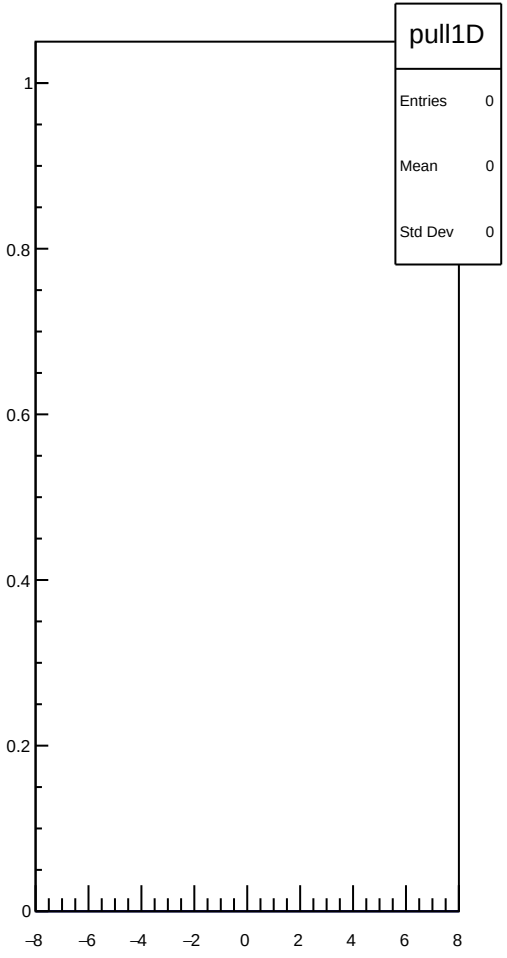

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

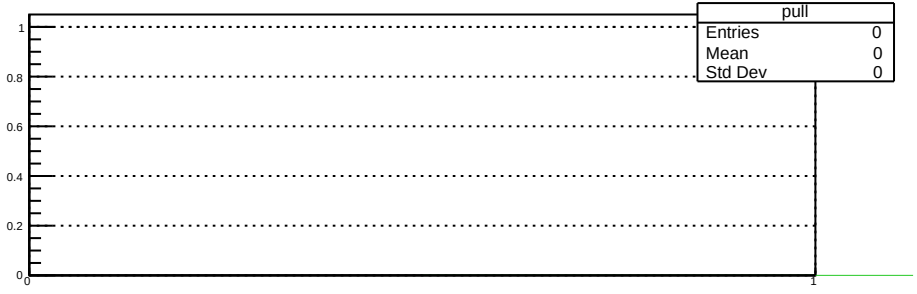

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

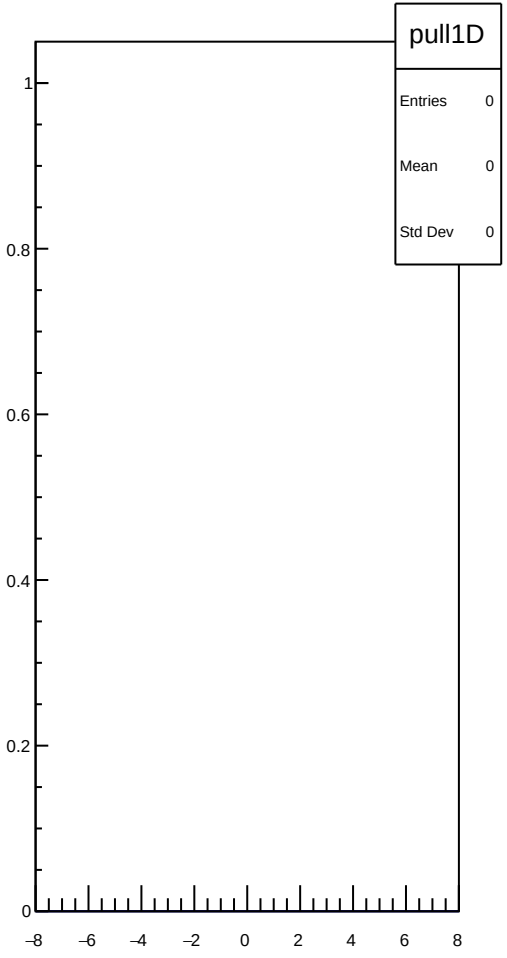

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

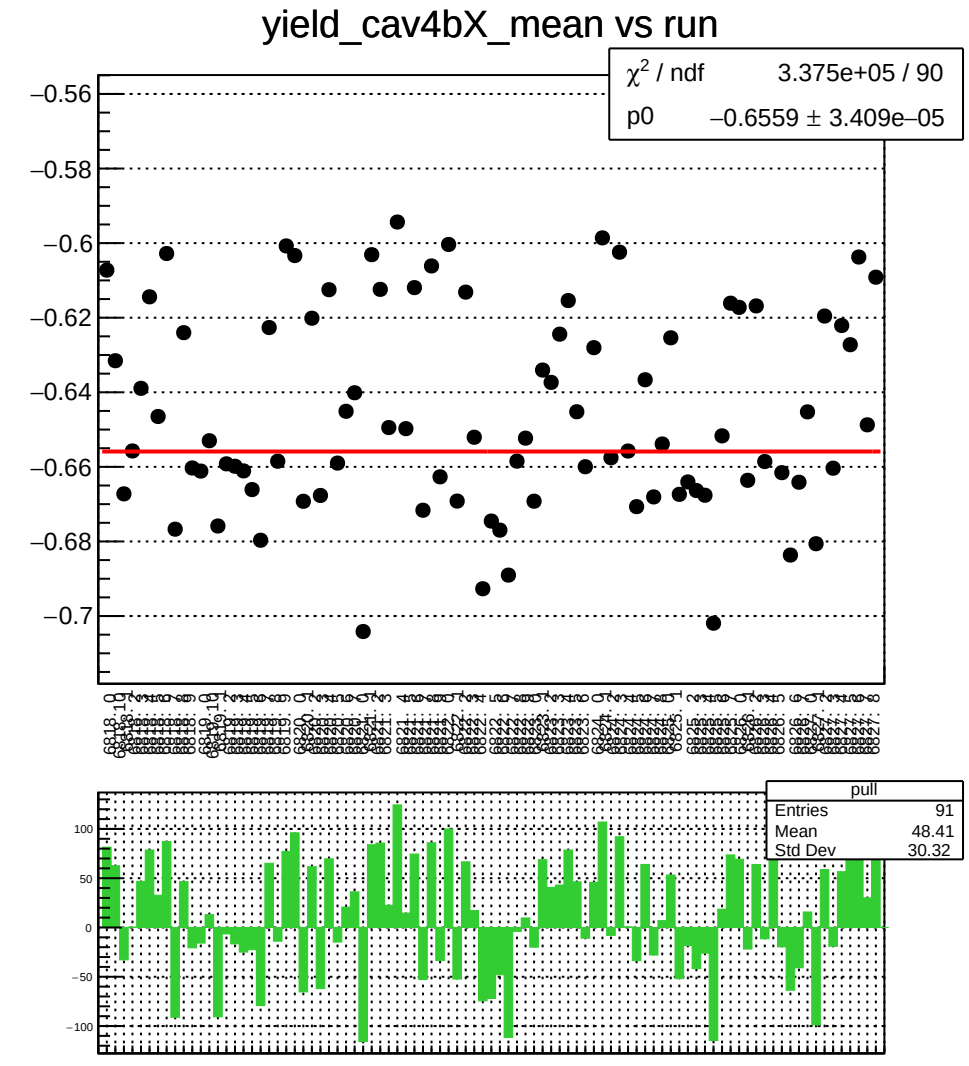

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

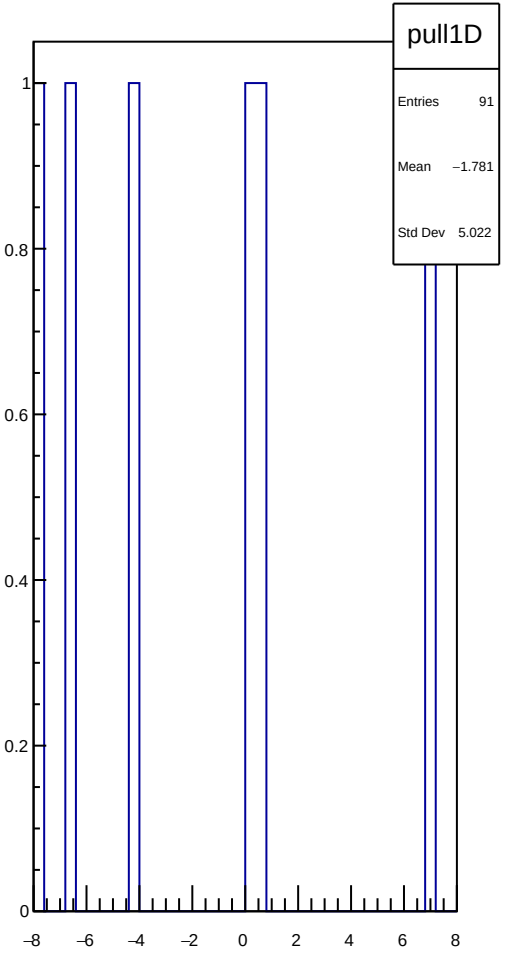

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

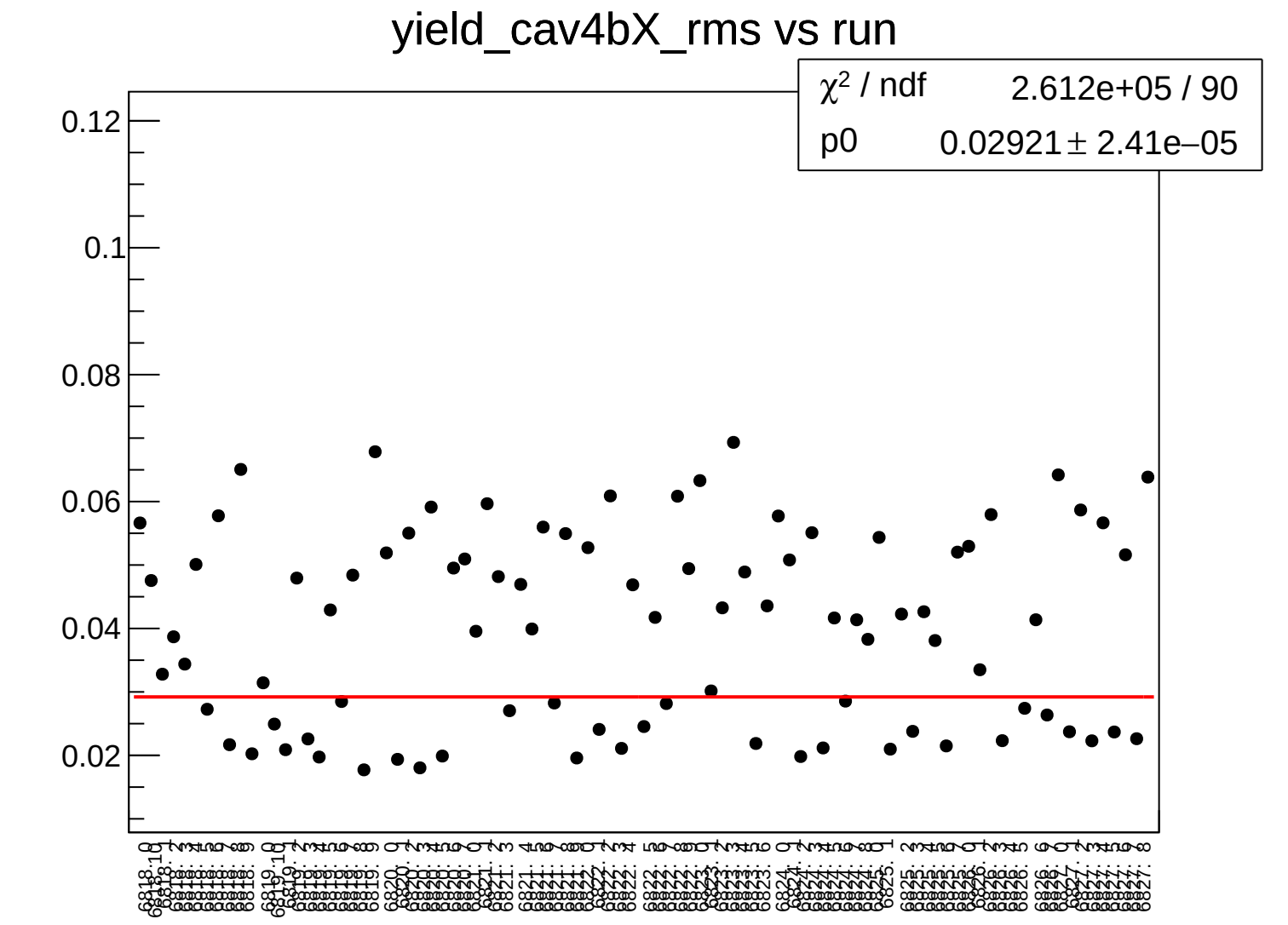

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

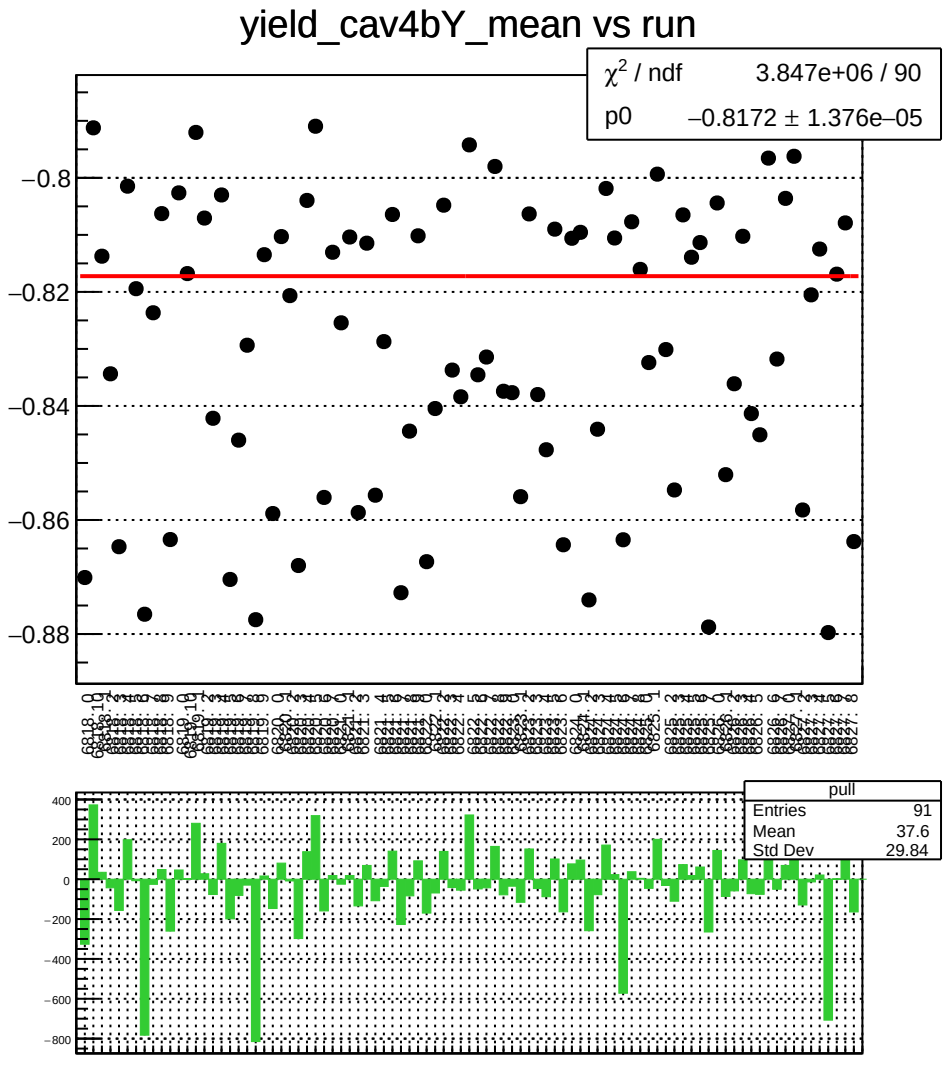

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

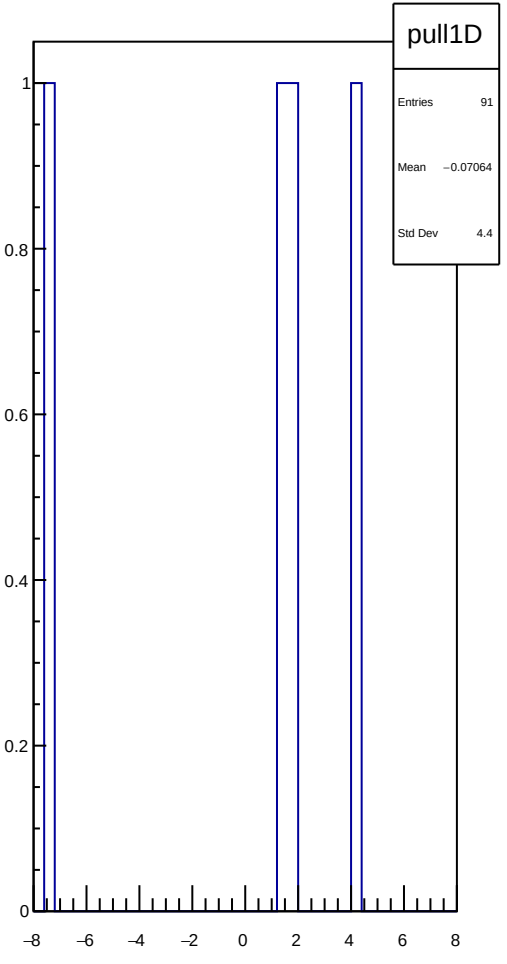

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

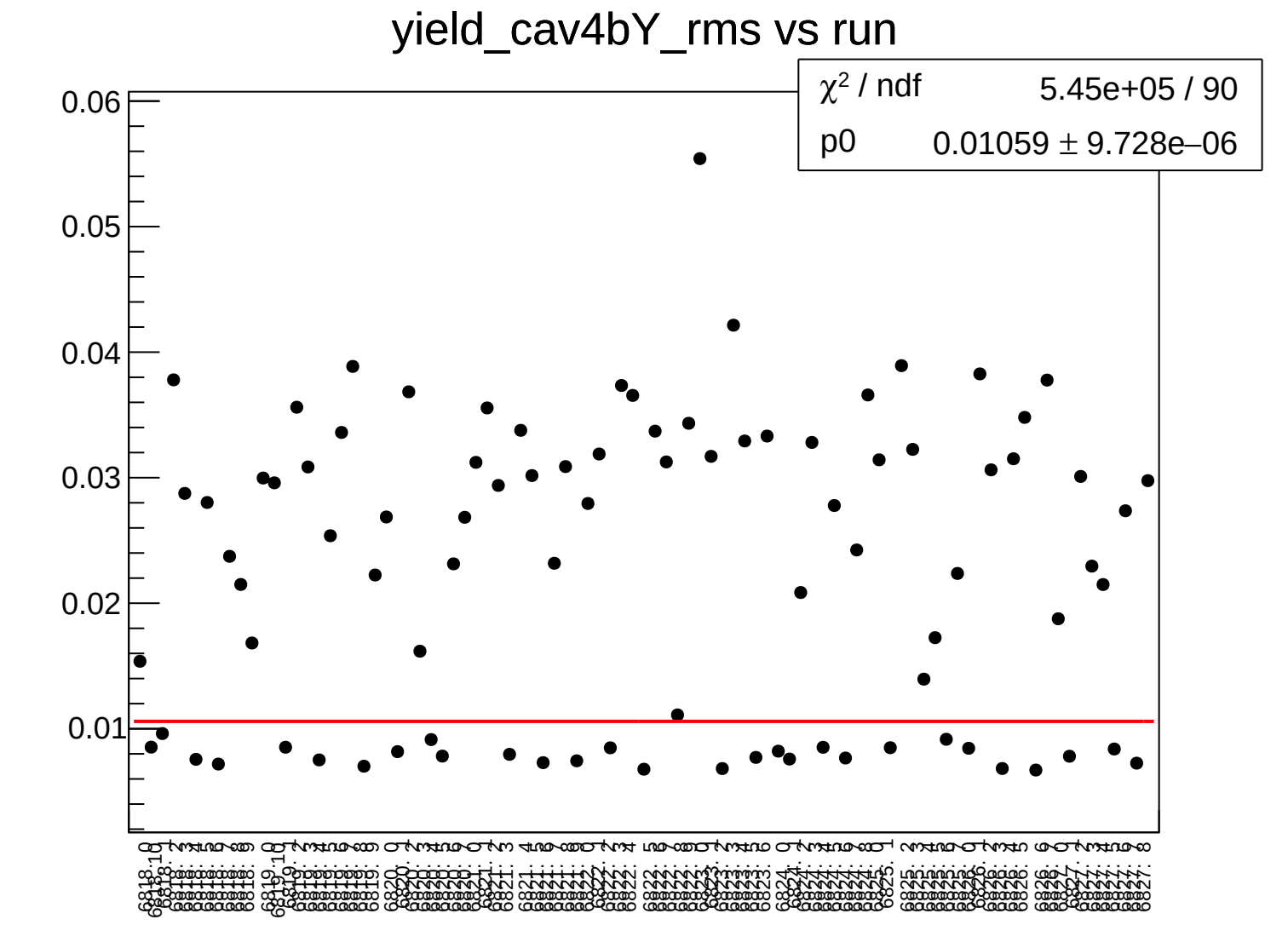

yield_cav4bX_mean vs run
χ² / ndf 3.375e+05 / 90
p0 −0.6559 ± 3.409e−05
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
pull
Entries 91
Mean 48.41
Std Dev 30.32
100
50
0
−50
−100

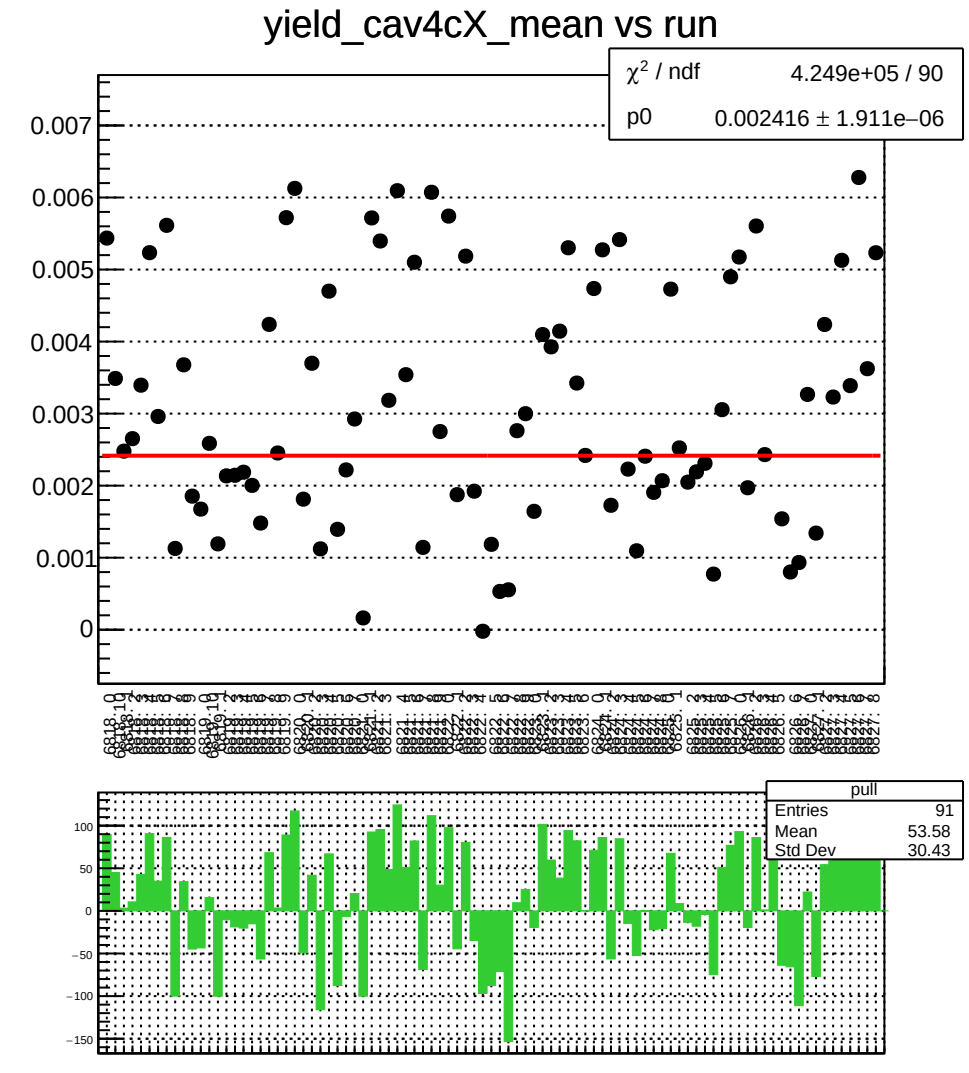

pull1D
Entries 91
Mean −1.781
Std Dev 5.022
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

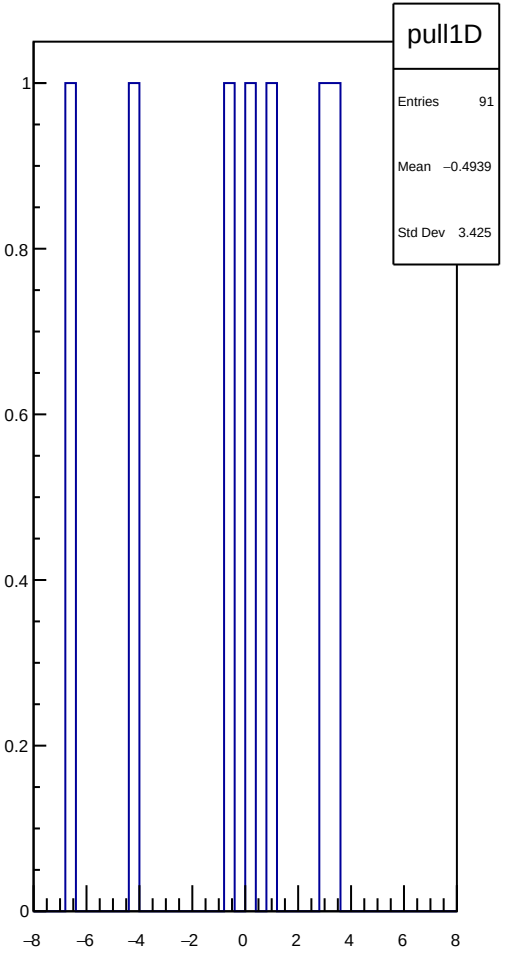

yield_cav4bX_rms vs run
χ² / ndf 2.612e+05 / 90
p0 0.02921 ± 2.41e−05
0.12
0.1
0.08
0.06
0.04
0.02

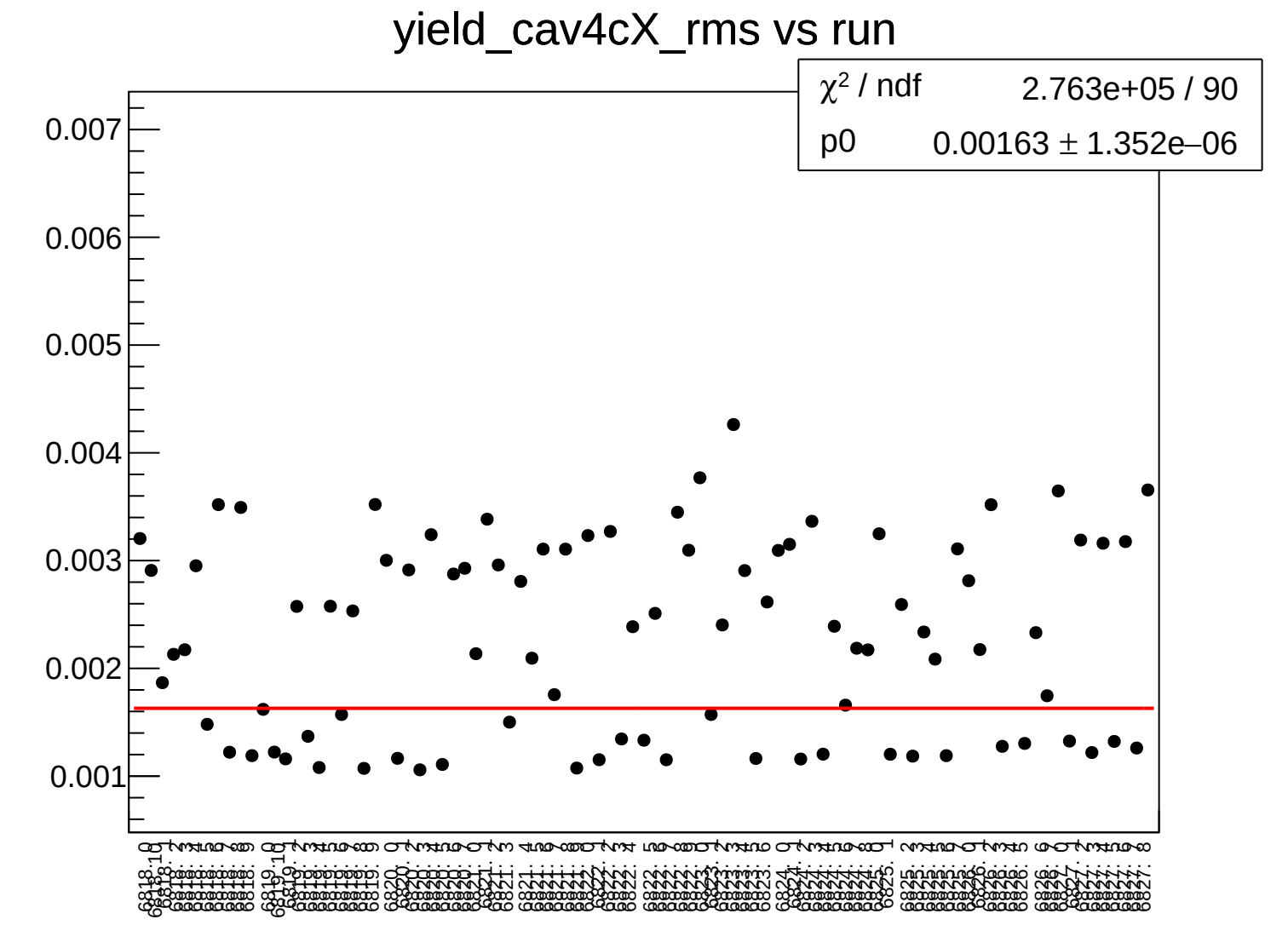

yield_cav4bY_mean vs run
χ² / ndf 3.847e+06 / 90
p0 −0.8172 ± 1.376e−05
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 91
Mean 37.6
Std Dev 29.84
400
200
0
−200
−400
−600
−800

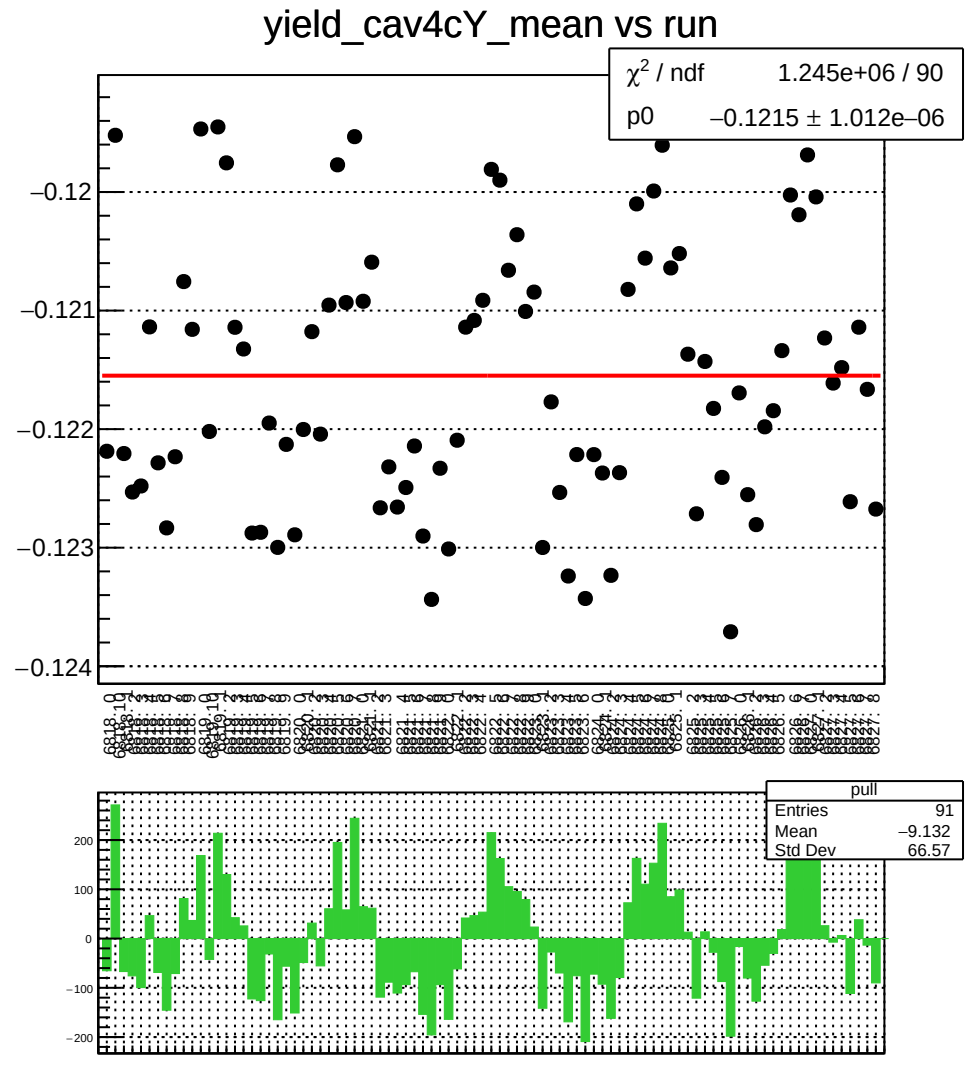

pull1D
Entries 91
Mean −0.07064
Std Dev 4.4
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

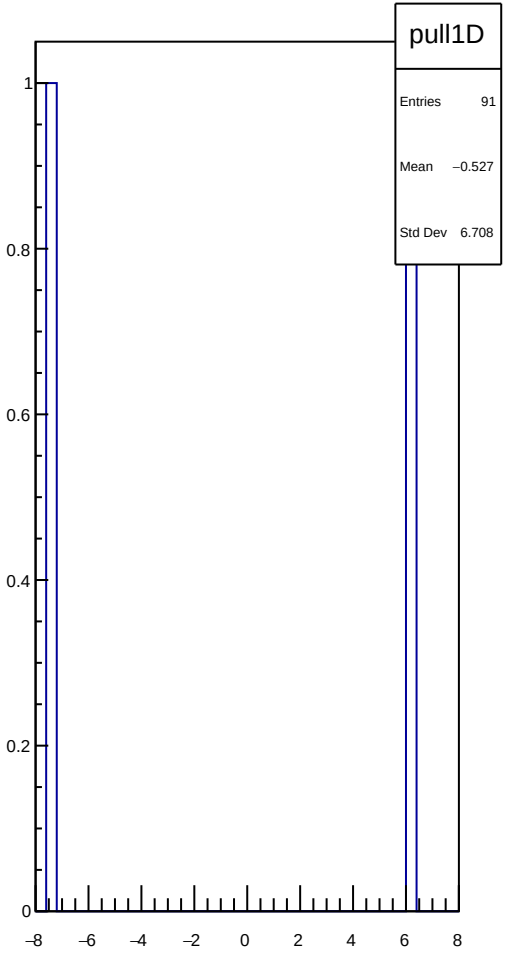

yield_cav4bY_rms vs run
χ² / ndf 5.45e+05 / 90
p0 0.01059 ± 9.728e–06
0.06
0.05
0.04
0.03
0.02
0.01

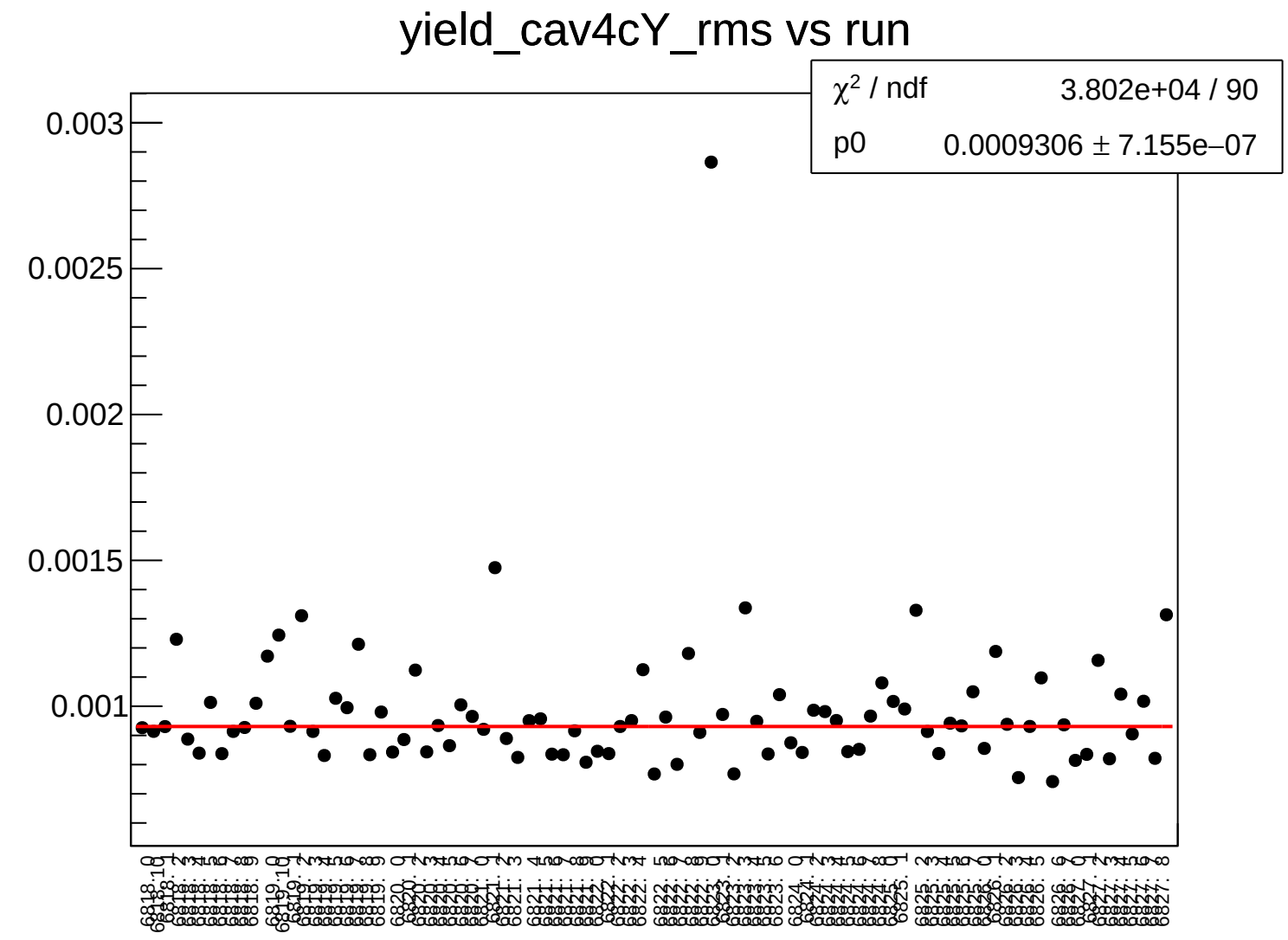

yield_cav4cX_mean vs run
χ² / ndf 4.249e+05 / 90
p0 0.002416 ± 1.911e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
pull
Entries 91
Mean 53.58
Std Dev 30.43
100
50
0
−50
−100
−150

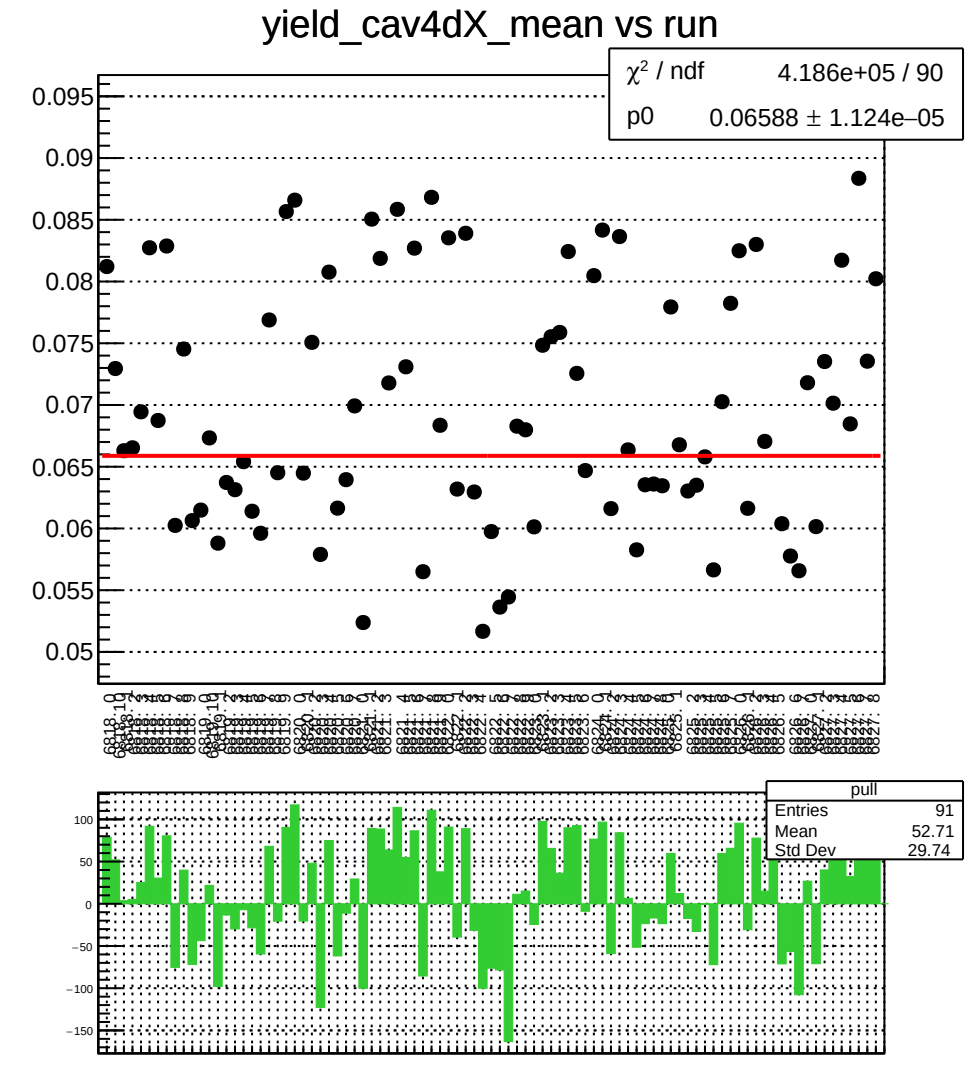

pull1D
Entries 91
Mean −0.4939
Std Dev 3.425
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

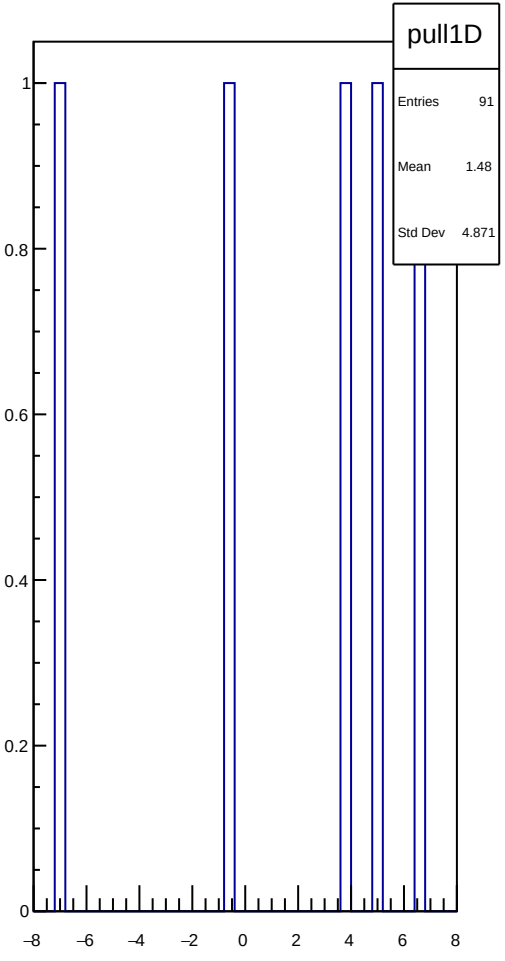

yield_cav4cX_rms vs run
χ² / ndf 2.763e+05 / 90
p0 0.00163 ± 1.352e–06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

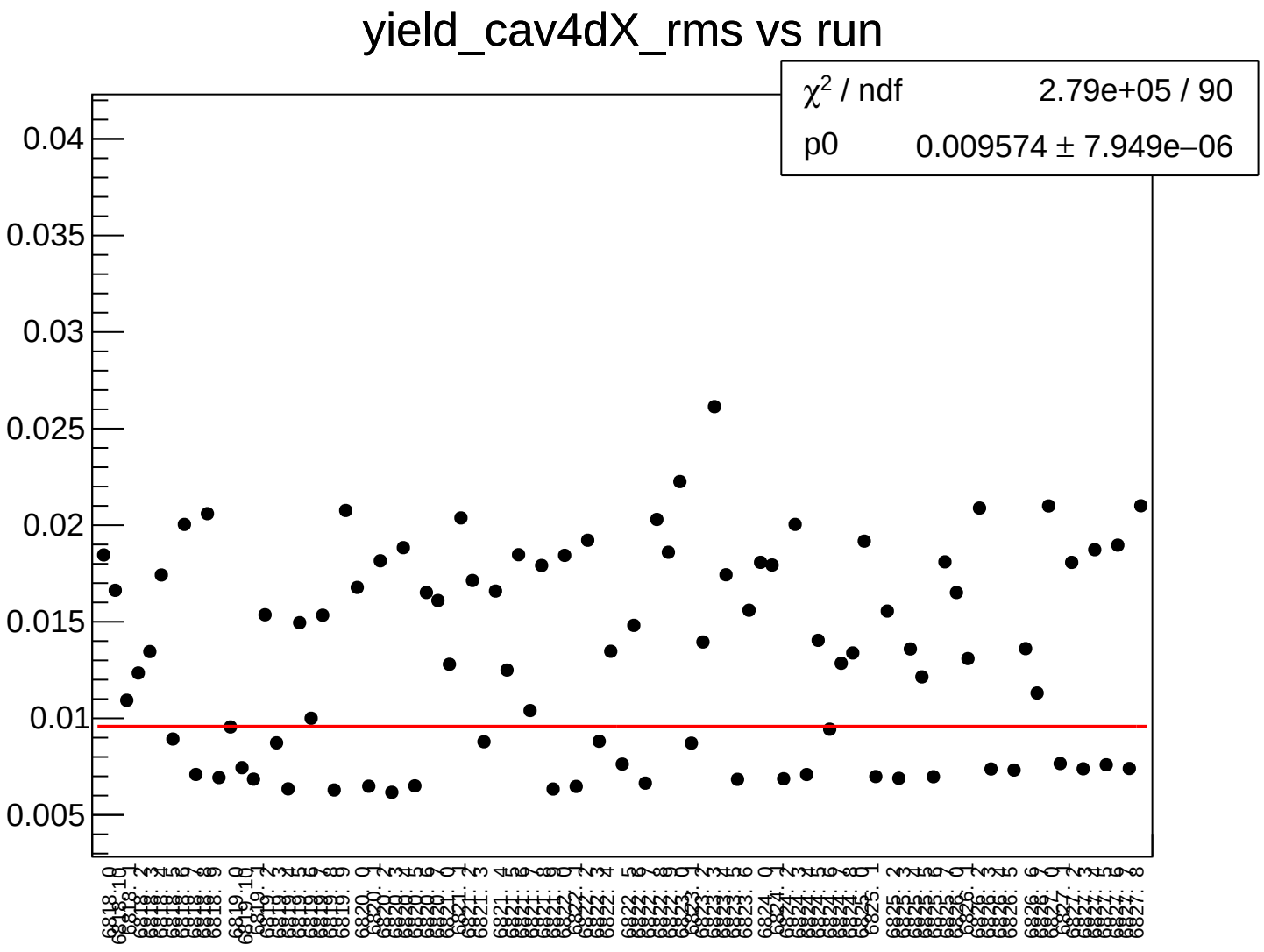

yield_cav4cY_mean vs run
χ² / ndf 1.245e+06 / 90
p0 −0.1215 ± 1.012e−06
−0.12
−0.121
−0.122
−0.123
−0.124
pull
Entries 91
Mean −9.132
Std Dev 66.57
200
100
0
−100
−200

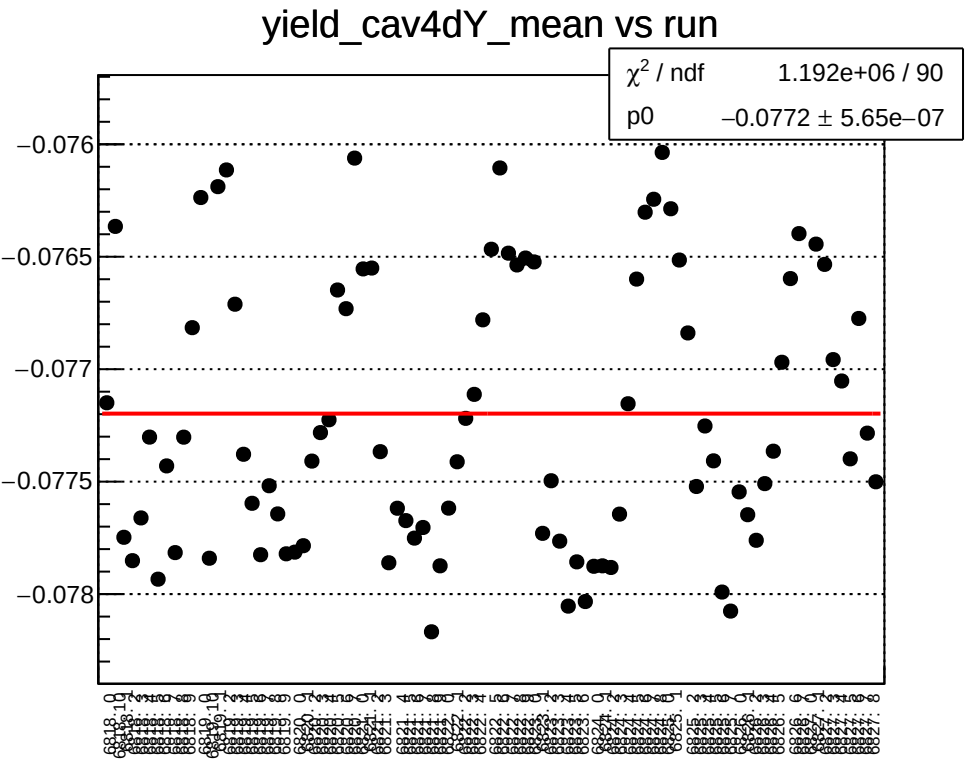

pull1D
Entries 91
Mean −0.527
Std Dev 6.708
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

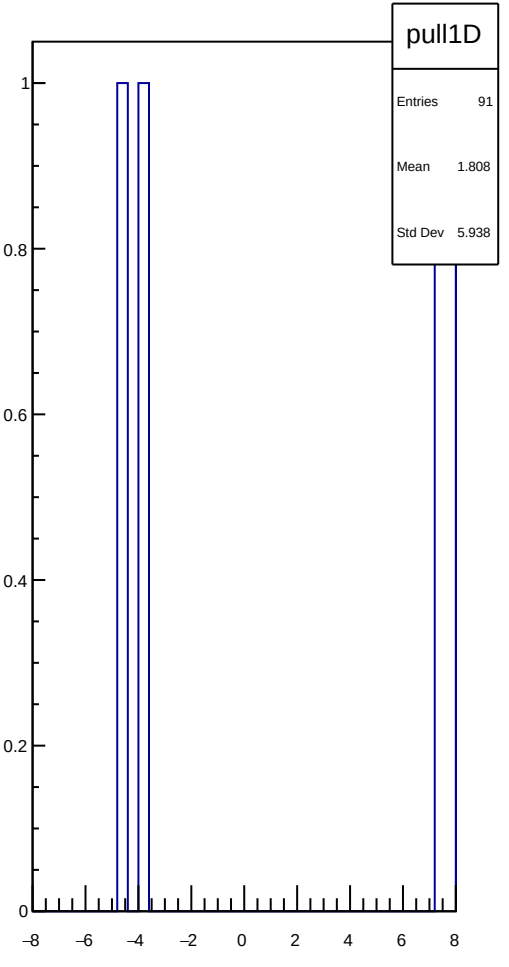

yield_cav4cY_rms vs run
χ² / ndf 3.802e+04 / 90
p0 0.0009306 ± 7.155e−07
0.003
0.0025
0.002
0.0015
0.001

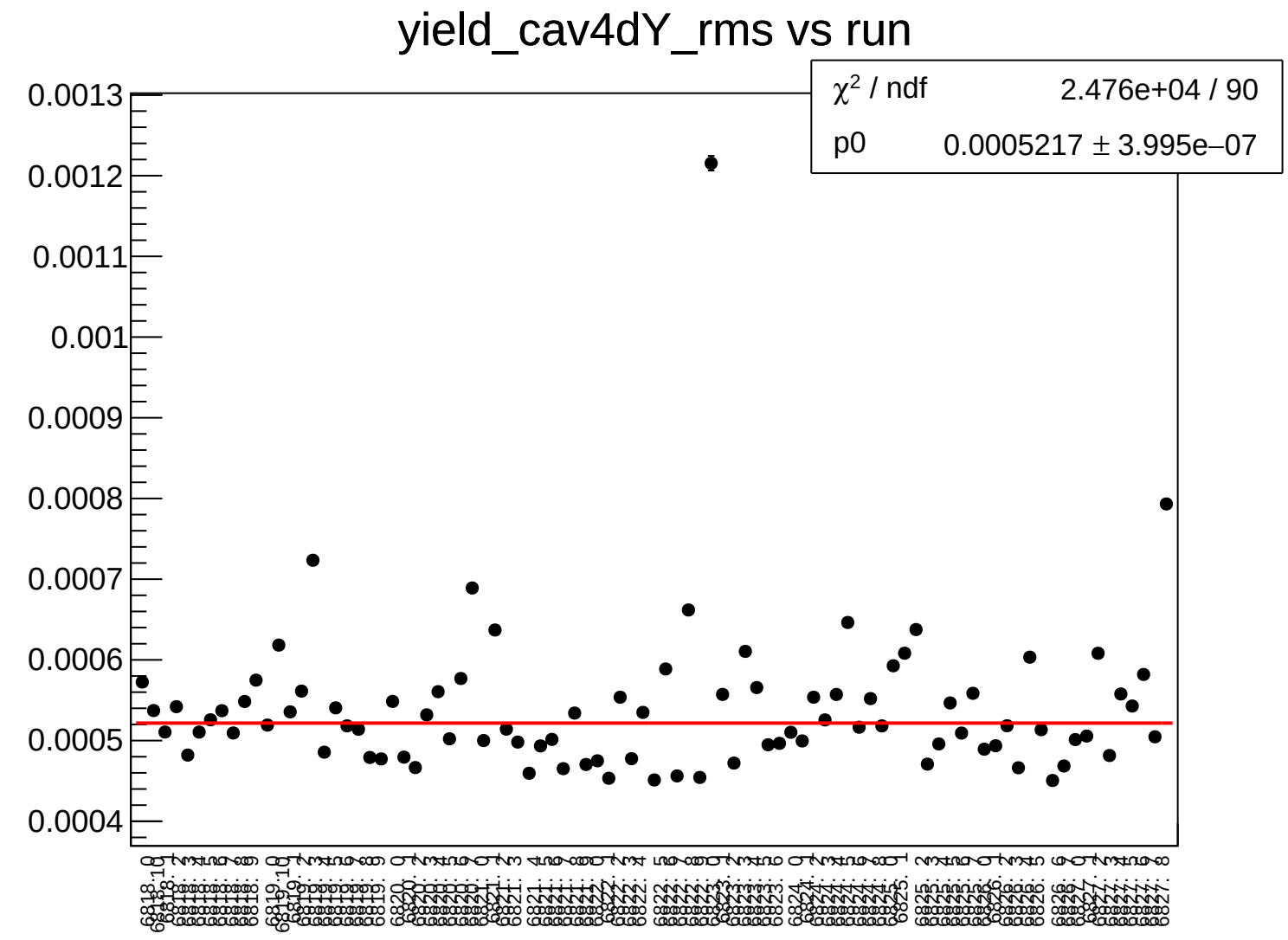

yield_cav4dX_mean vs run
χ² / ndf 4.186e+05 / 90
p0 0.06588 ± 1.124e−05
pull
Entries 91
Mean 52.71
Std Dev 29.74

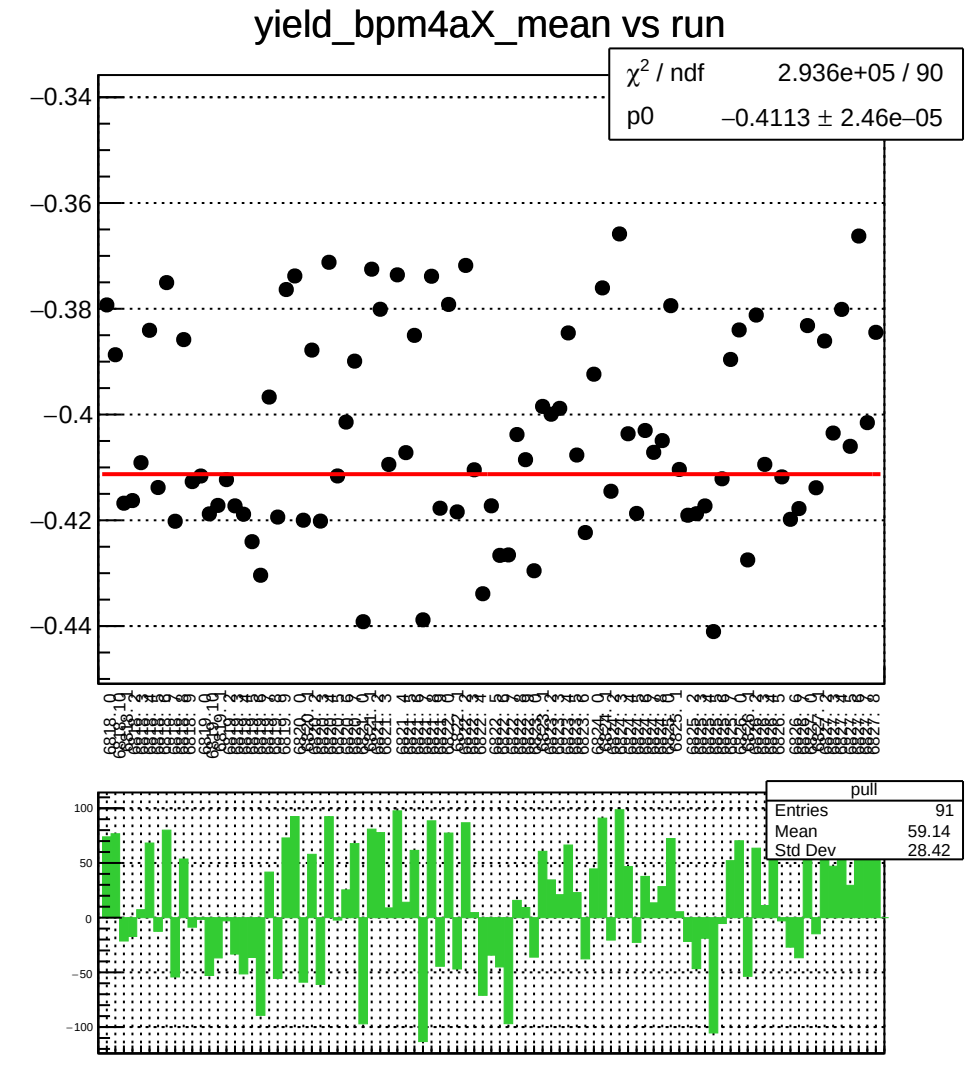

pull1D
Entries 91
Mean 1.48
Std Dev 4.871

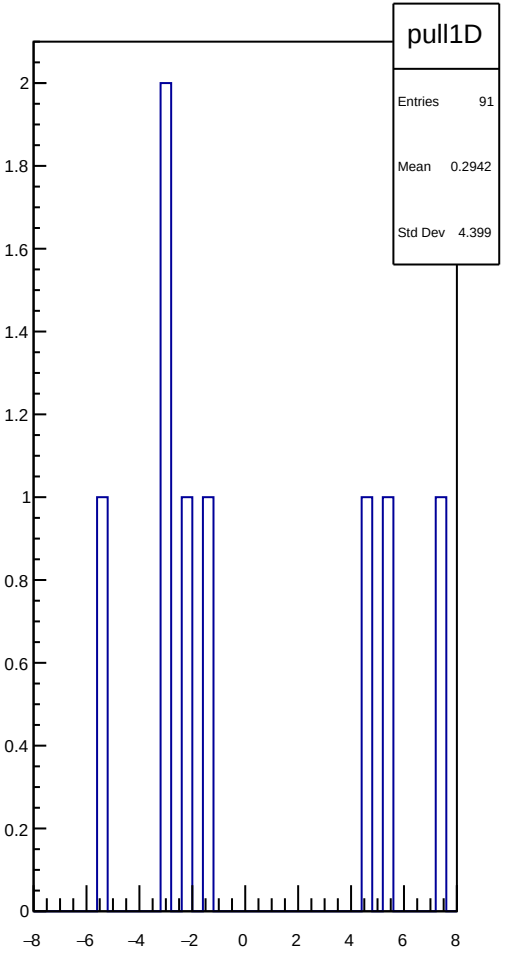

yield_cav4dX_rms vs run
χ² / ndf 2.79e+05 / 90
p0 0.009574 ± 7.949e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

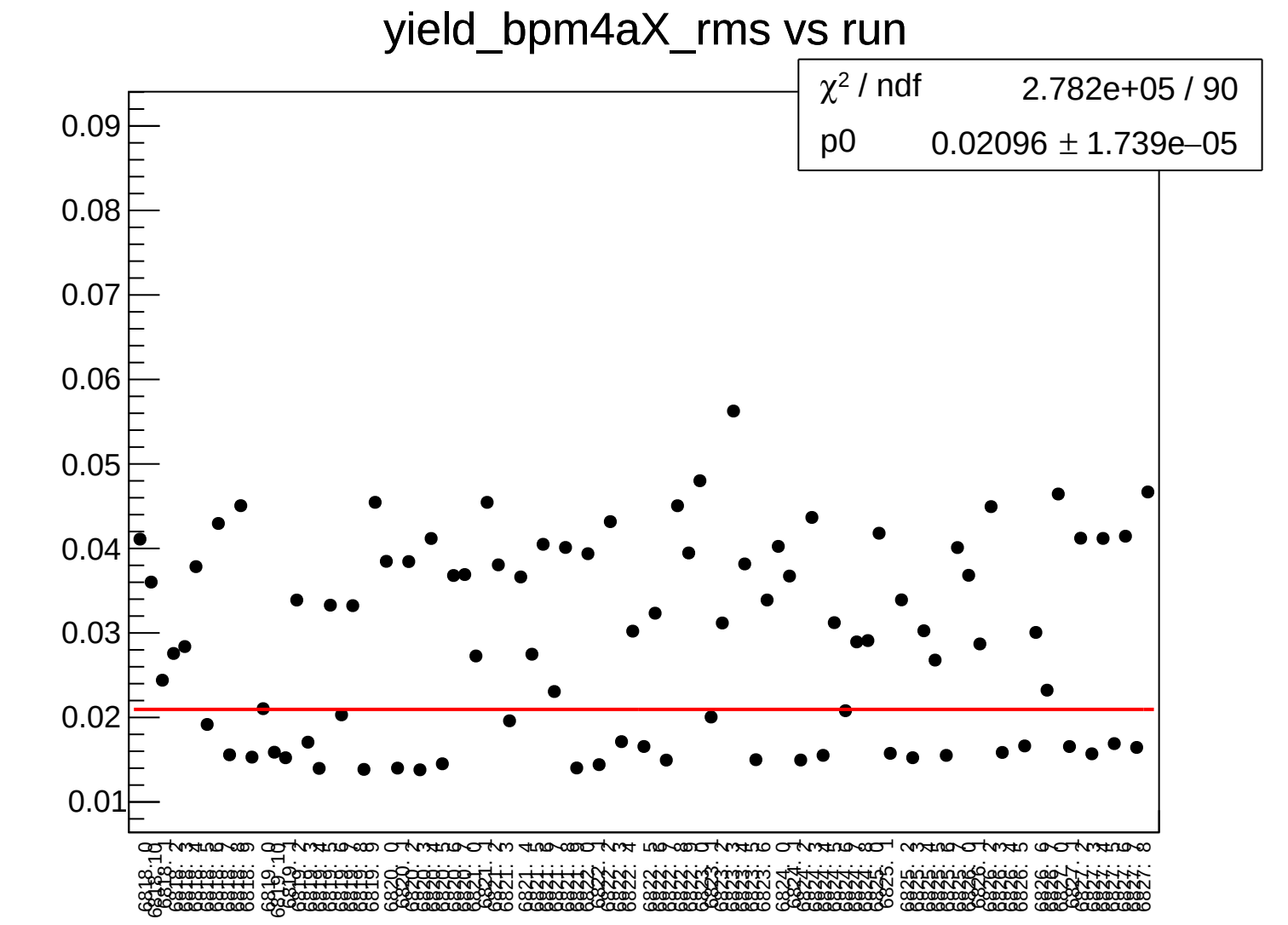

yield_cav4dY_mean vs run
χ² / ndf 1.192e+06 / 90
p0 −0.0772 ± 5.65e−07
−0.076
−0.0765
−0.077
−0.0775
−0.078
pull
Entries 91
Mean −314.4
Std Dev 365.5
300
200
100
0
−100
−200

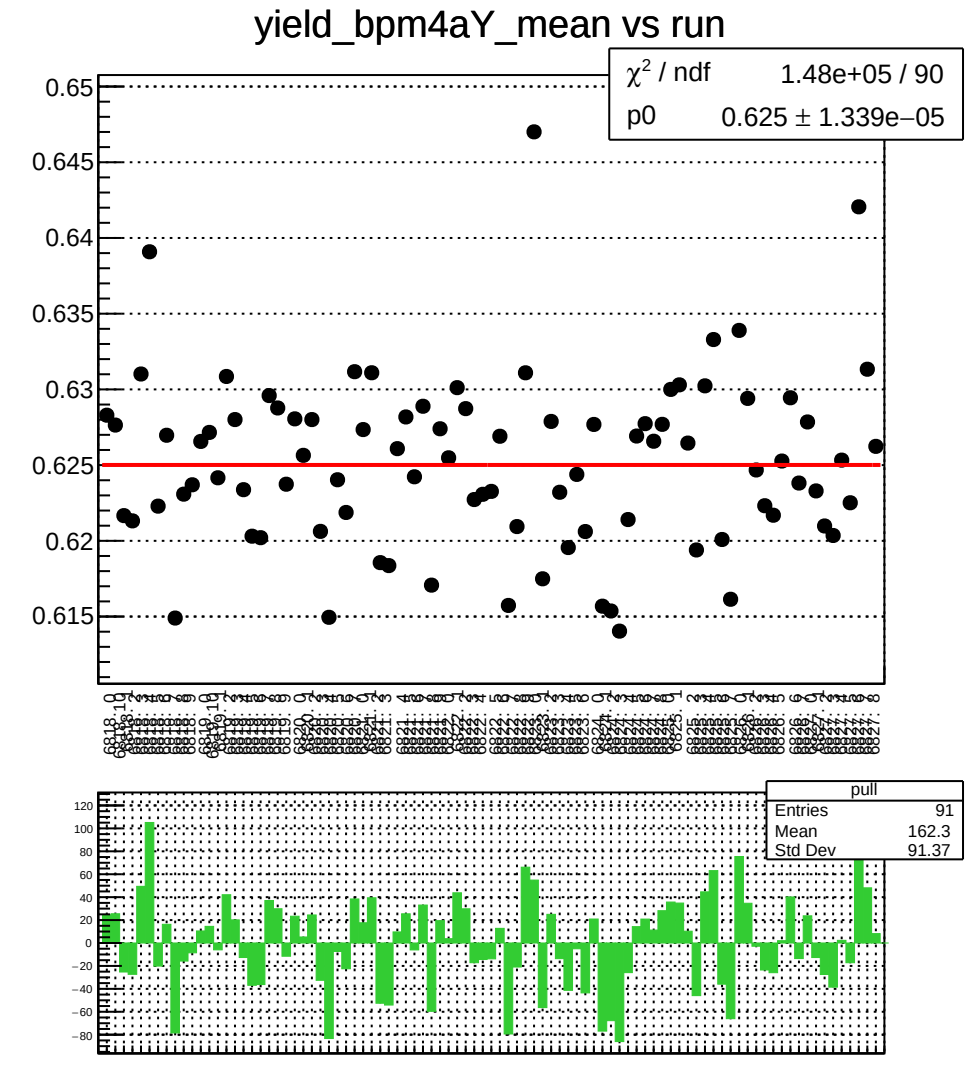

pull1D
Entries 91
Mean 1.808
Std Dev 5.938
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

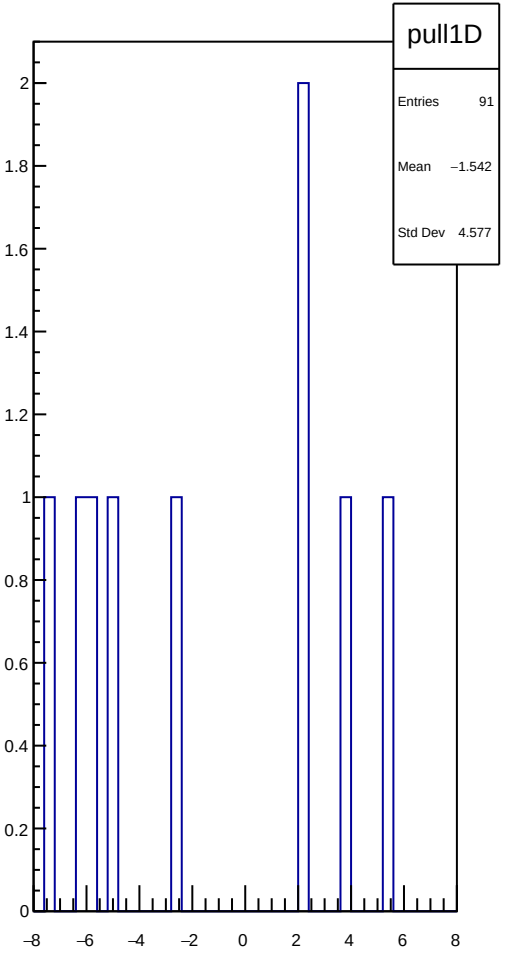

yield_cav4dY_rms vs run
χ² / ndf 2.476e+04 / 90
p0 0.0005217 ± 3.995e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

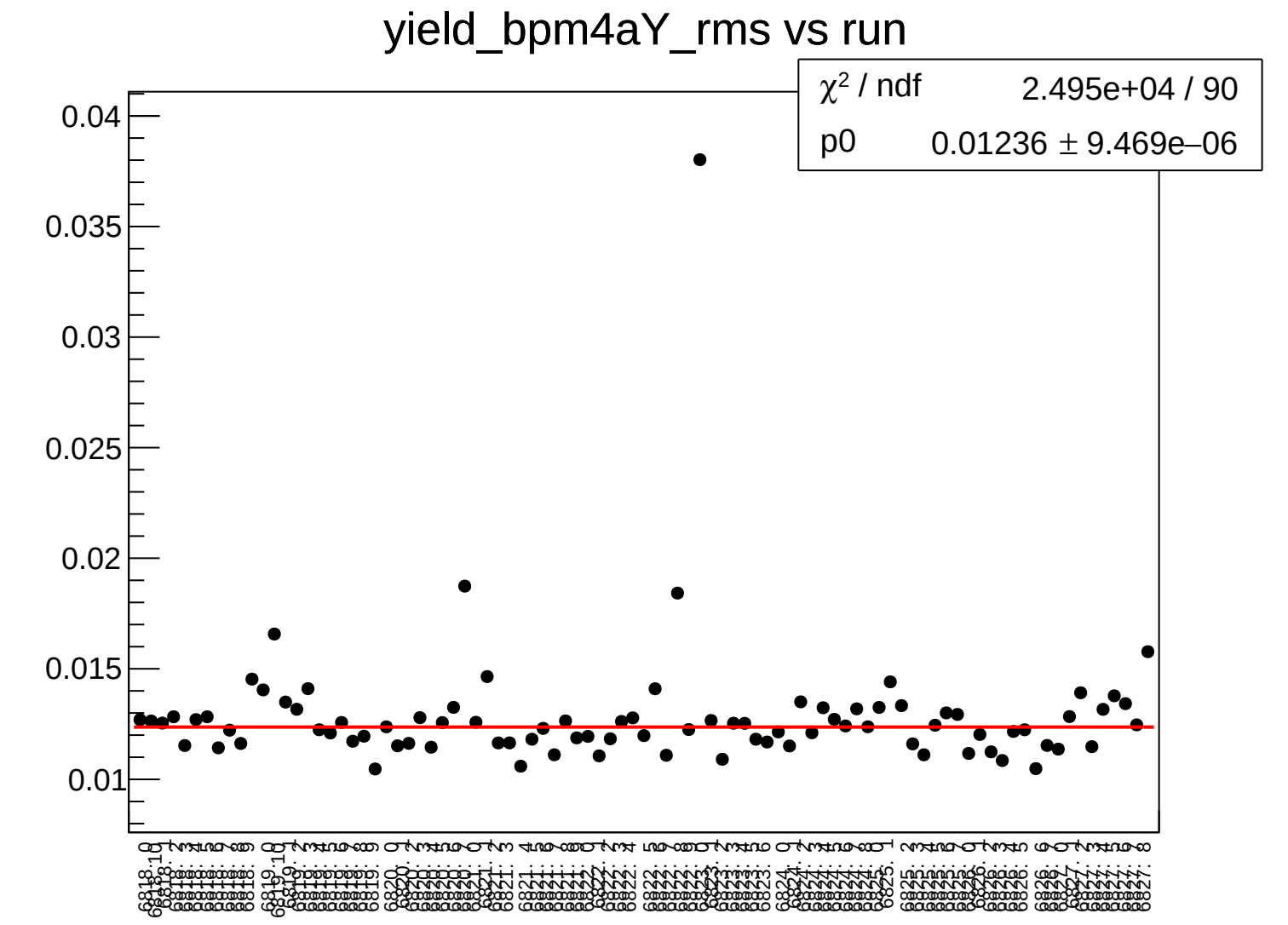

yield_bpm4aX_mean vs run
χ² / ndf 2.936e+05 / 90
p0 –0.4113 ± 2.46e–05
–0.34
–0.36
–0.38
–0.4
–0.42
–0.44
pull
Entries 91
Mean 59.14
Std Dev 28.42
100
50
0
–50
–100

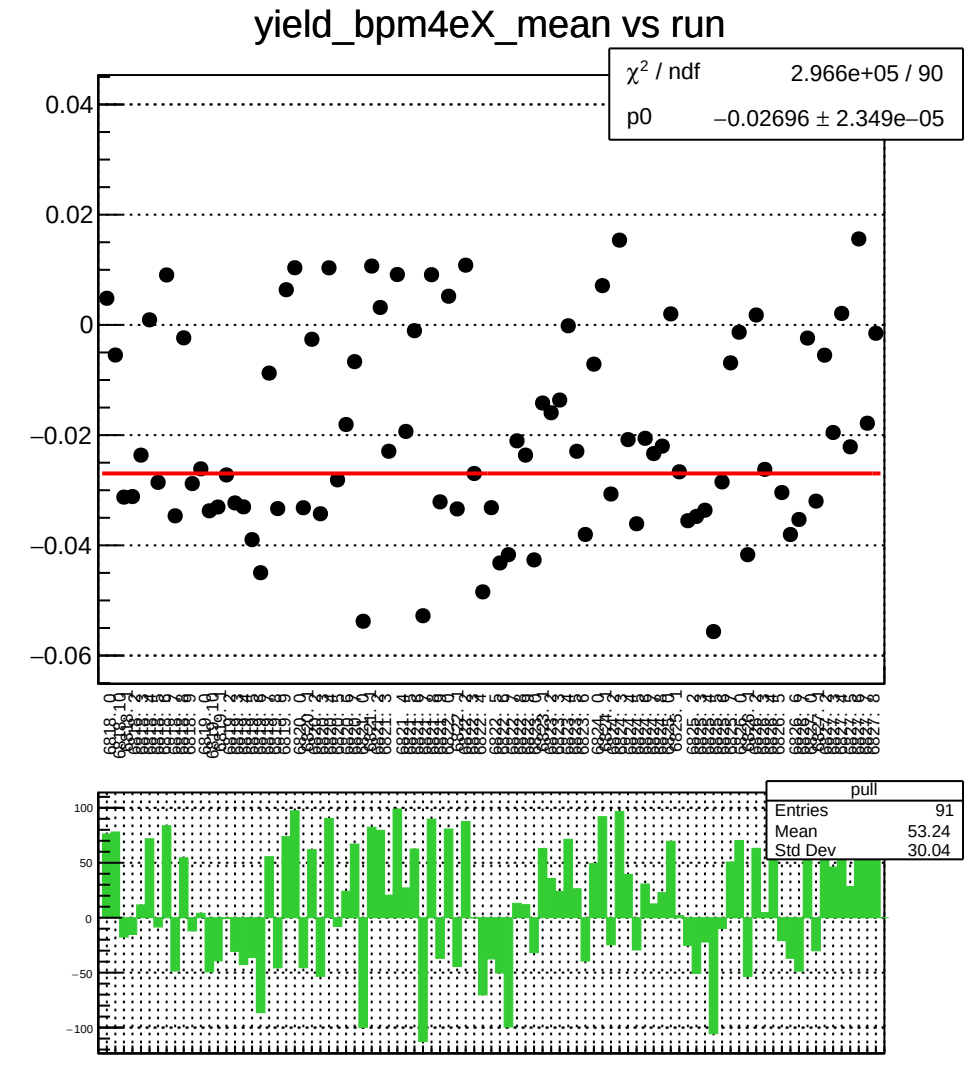

pull1D
Entries 91
Mean 0.2942
Std Dev 4.399
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

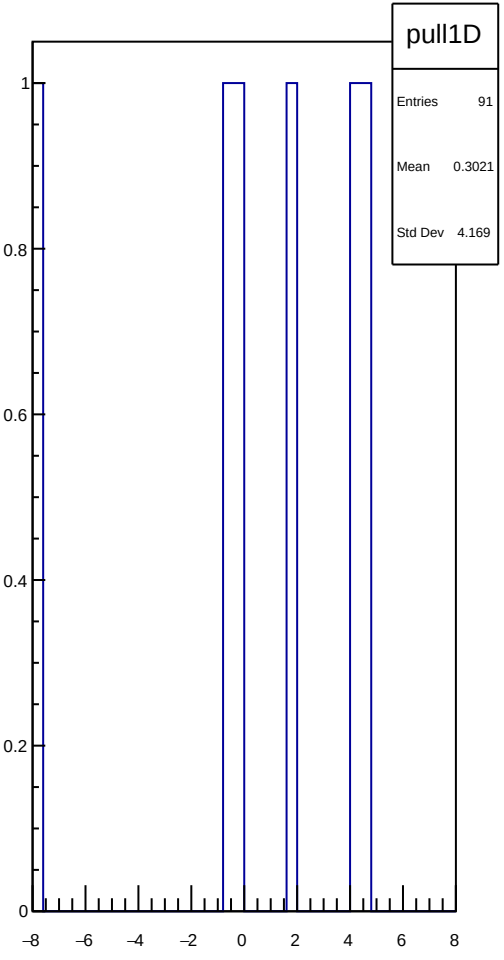

yield_bpm4aX_rms vs run
χ² / ndf 2.782e+05 / 90
p0 0.02096 ± 1.739e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

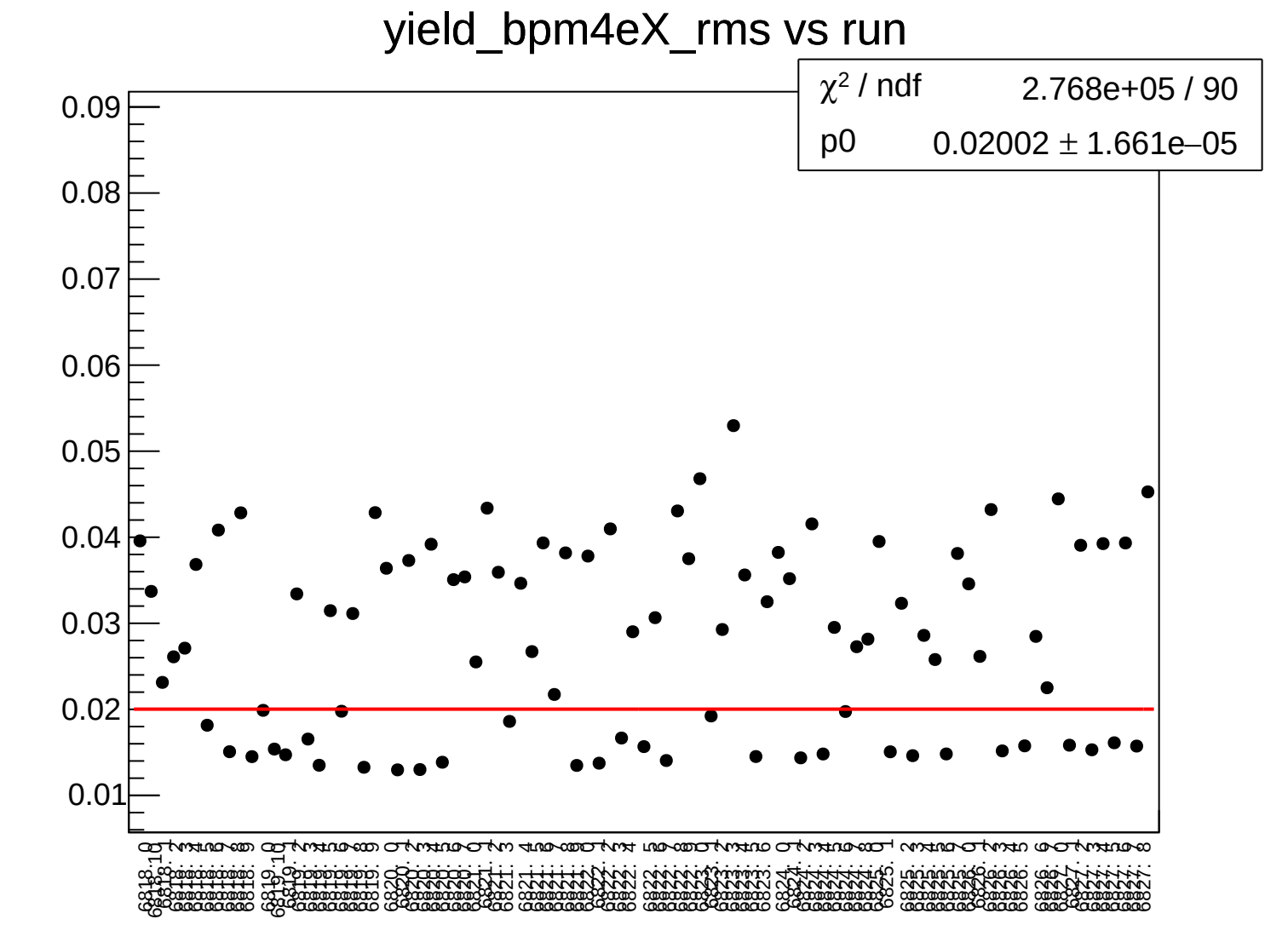

yield_bpm4aY_mean vs run
χ² / ndf 1.48e+05 / 90
p0 0.625 ± 1.339e−05
0.65
0.645
0.64
0.635
0.63
0.625
0.62
0.615
pull
Entries 91
Mean 162.3
Std Dev 91.37
120
100
80
60
40
20
0
−20
−40
−60
−80

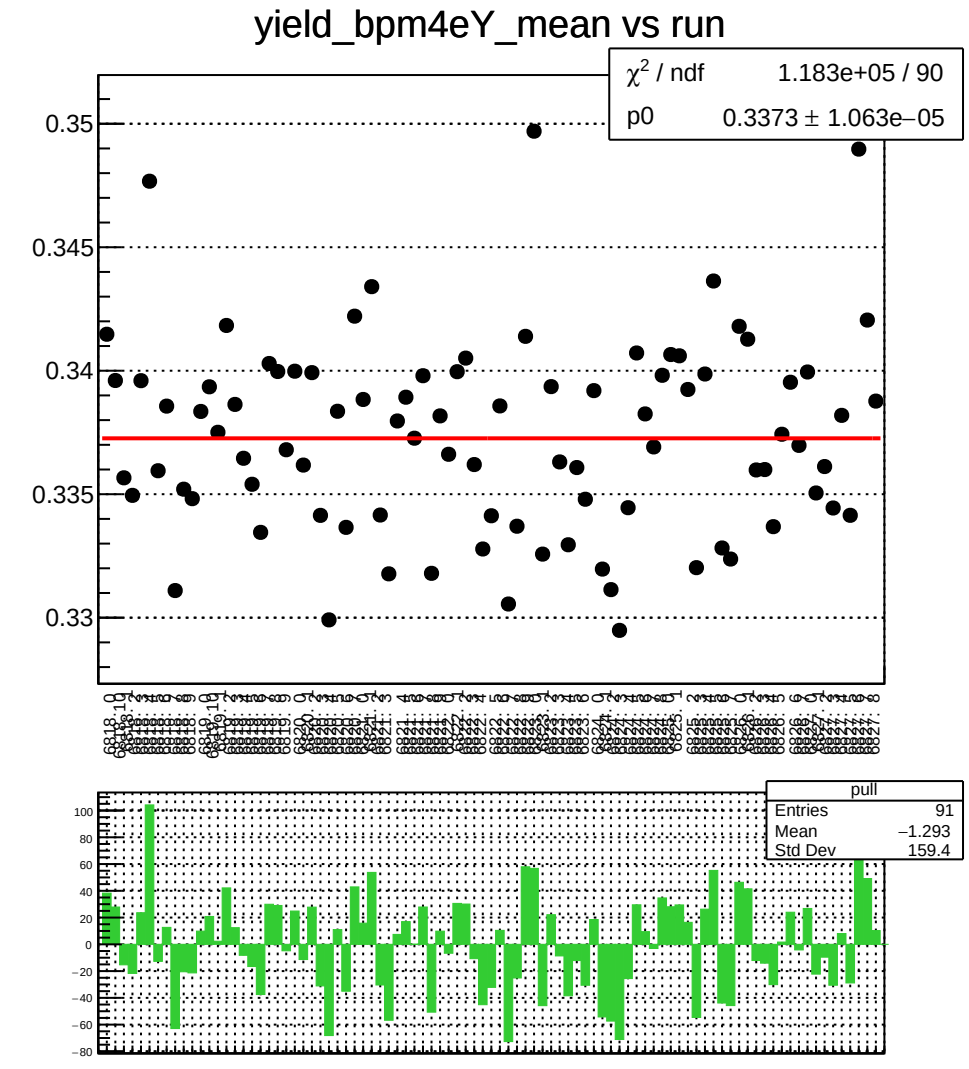

pull1D
Entries 91
Mean −1.542
Std Dev 4.577
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

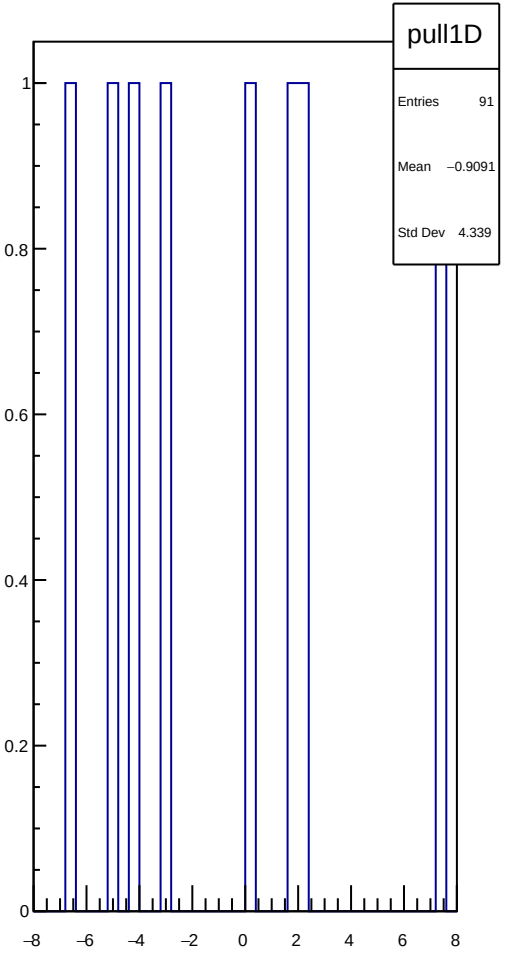

yield_bpm4aY_rms vs run
χ² / ndf 2.495e+04 / 90
p0 0.01236 ± 9.469e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

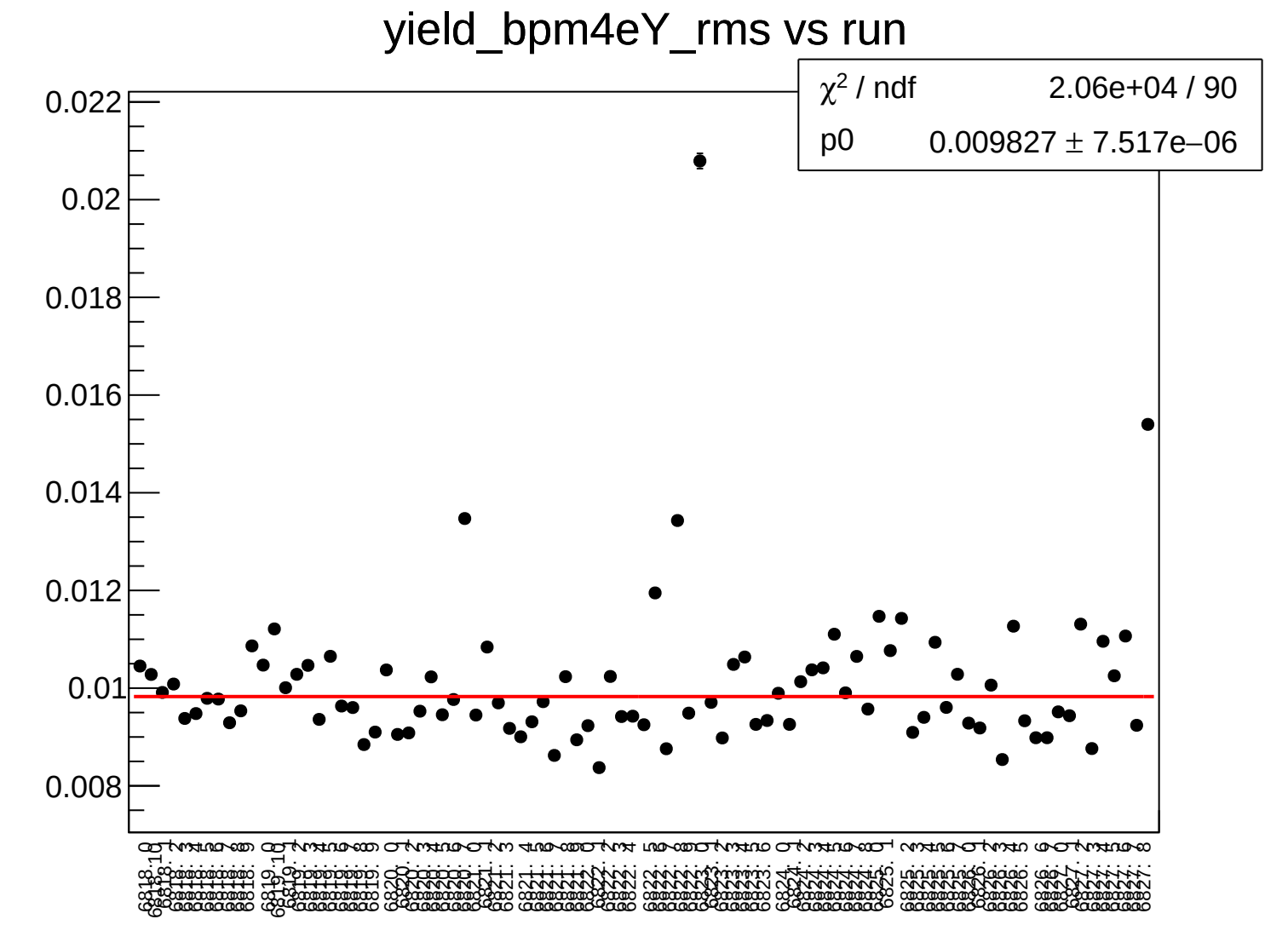

yield_bpm4eX_mean vs run
χ² / ndf 2.966e+05 / 90
p0 −0.02696 ± 2.349e−05
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 53.24
Std Dev 30.04
100
50
0
−50
−100

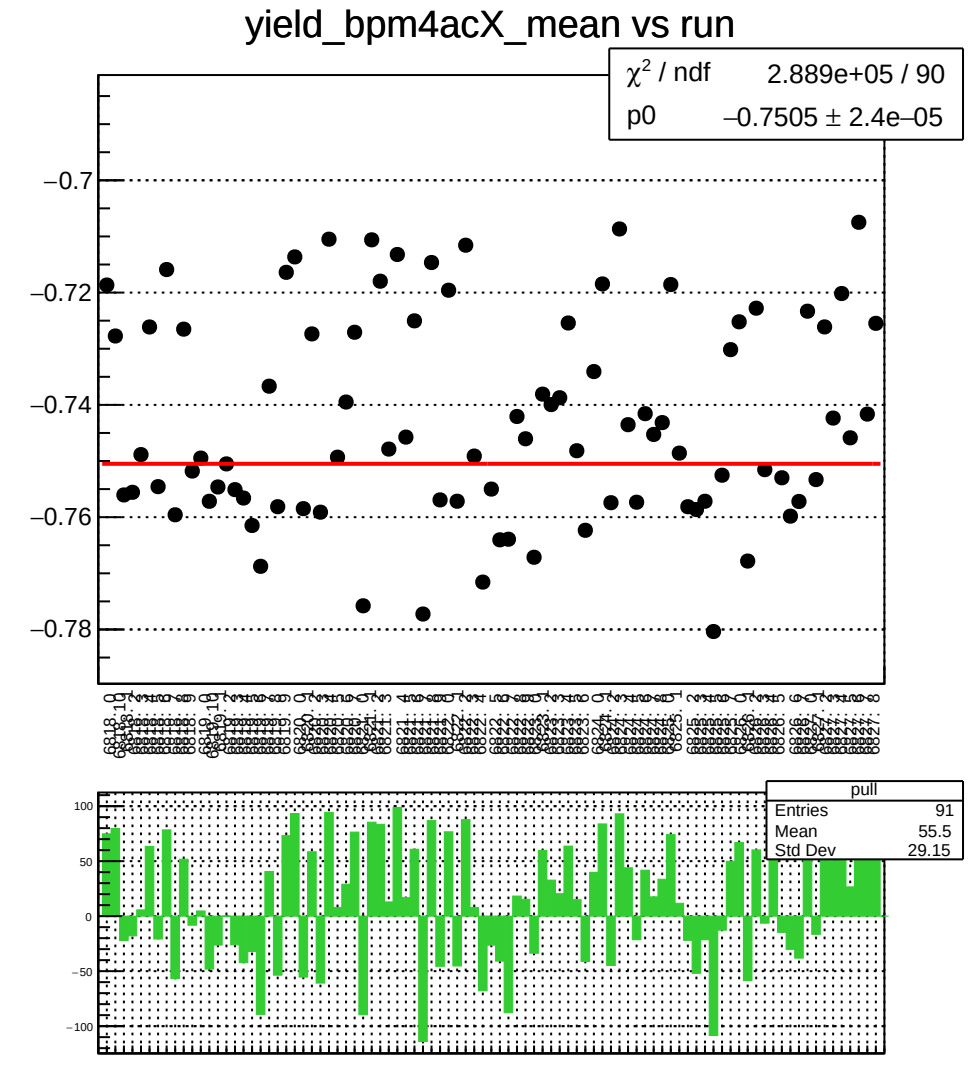

pull1D
Entries 91
Mean 0.3021
Std Dev 4.169
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

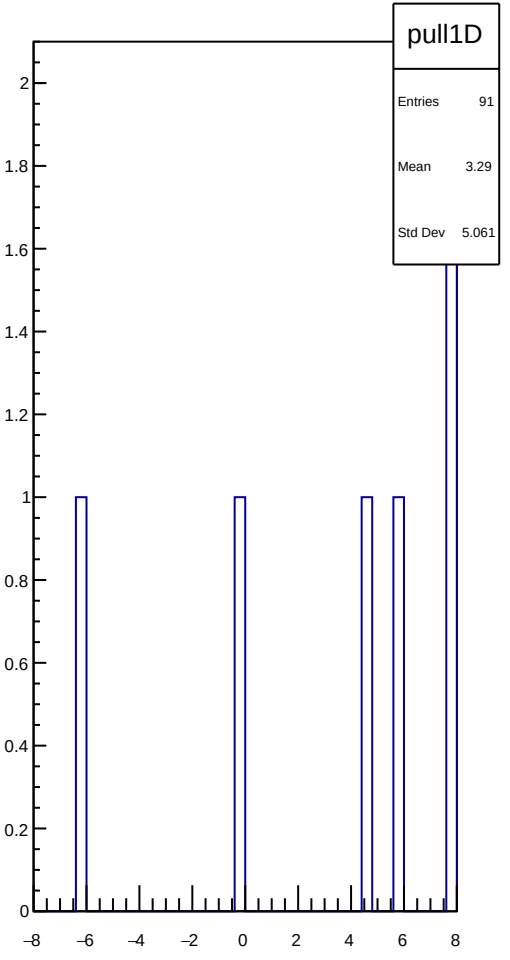

yield_bpm4eX_rms vs run
χ² / ndf 2.768e+05 / 90
p0 0.02002 ± 1.661e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

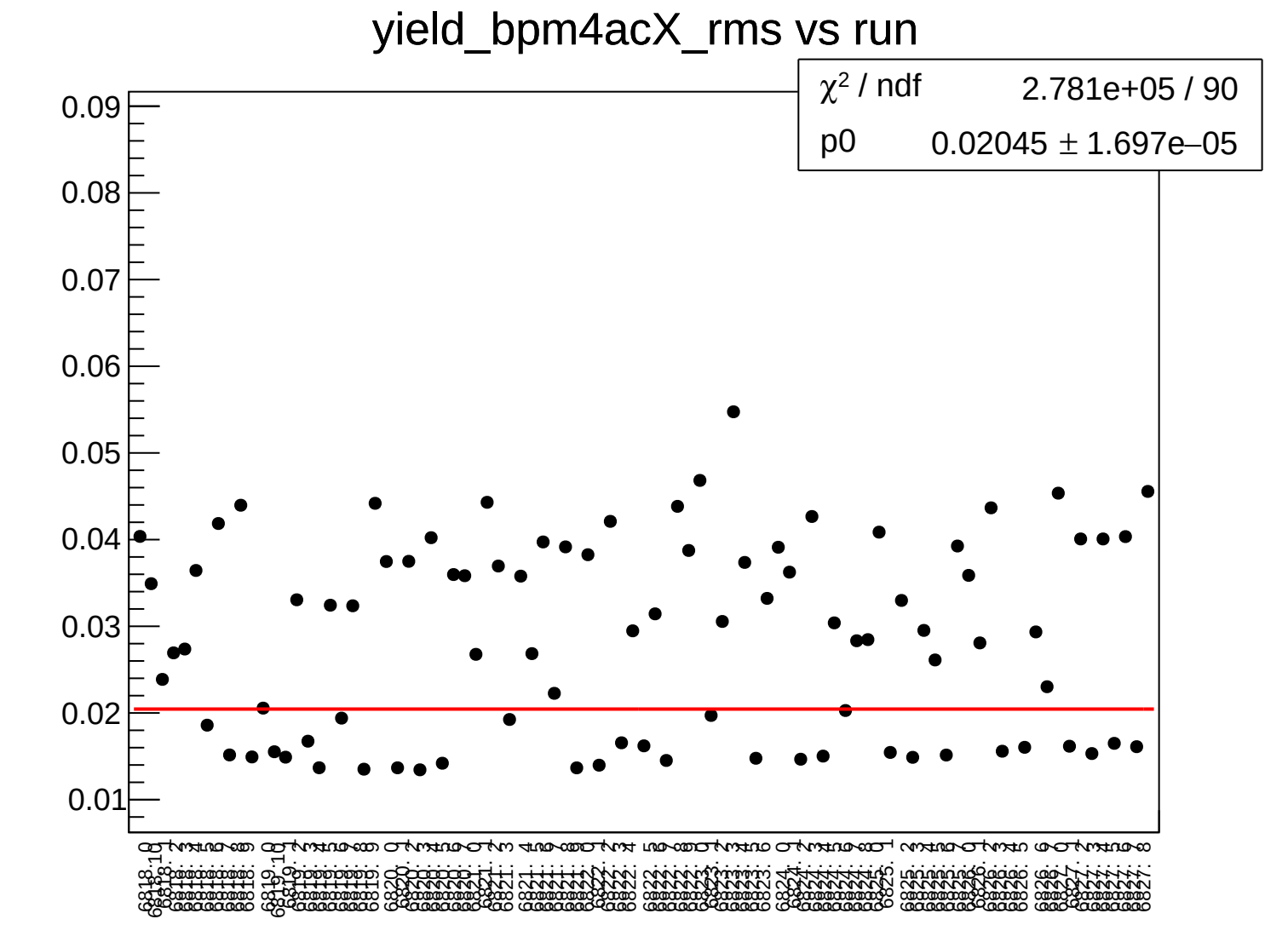

yield_bpm4eY_mean vs run
χ² / ndf 1.183e+05 / 90
p0 0.3373 ± 1.063e−05
0.35
0.345
0.34
0.335
0.33
pull
Entries 91
Mean −1.293
Std Dev 159.4
100
80
60
40
20
0
−20
−40
−60
−80

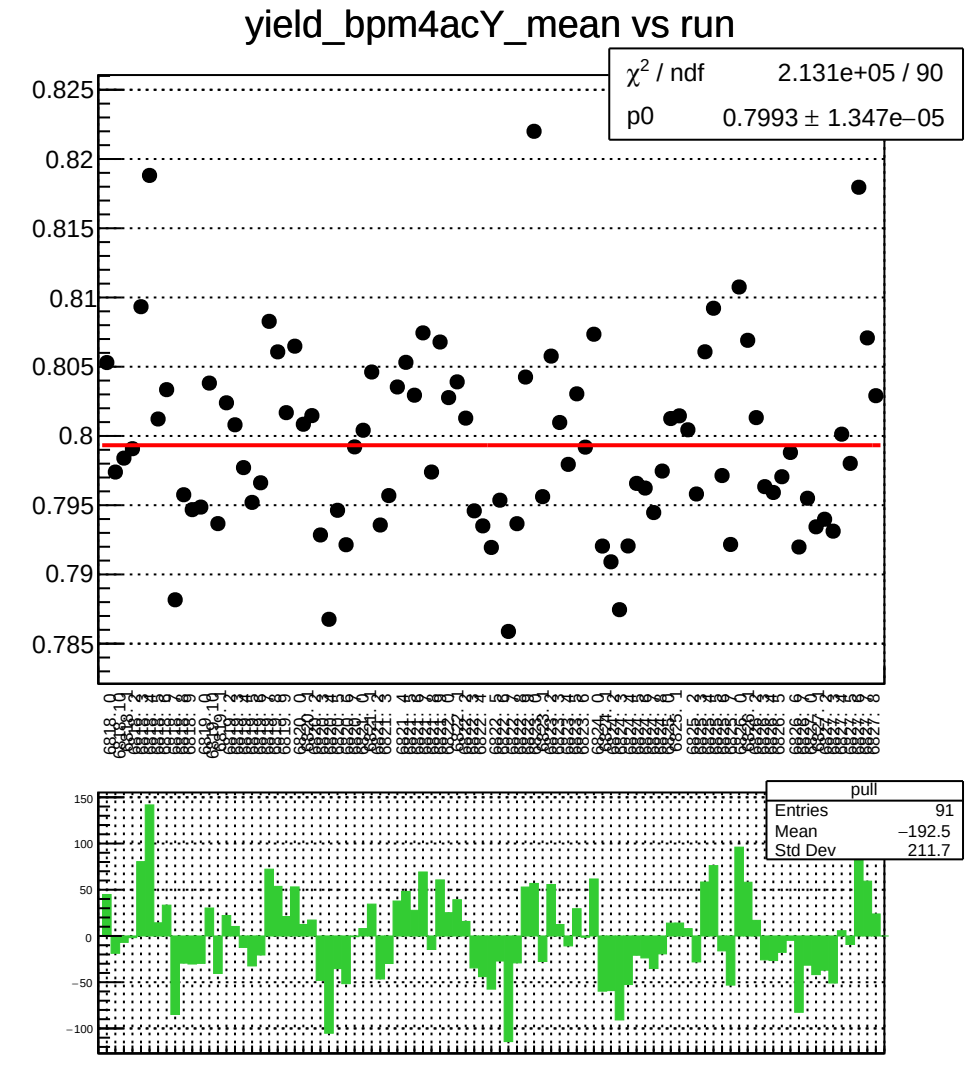

pull1D
Entries 91
Mean −0.9091
Std Dev 4.339
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

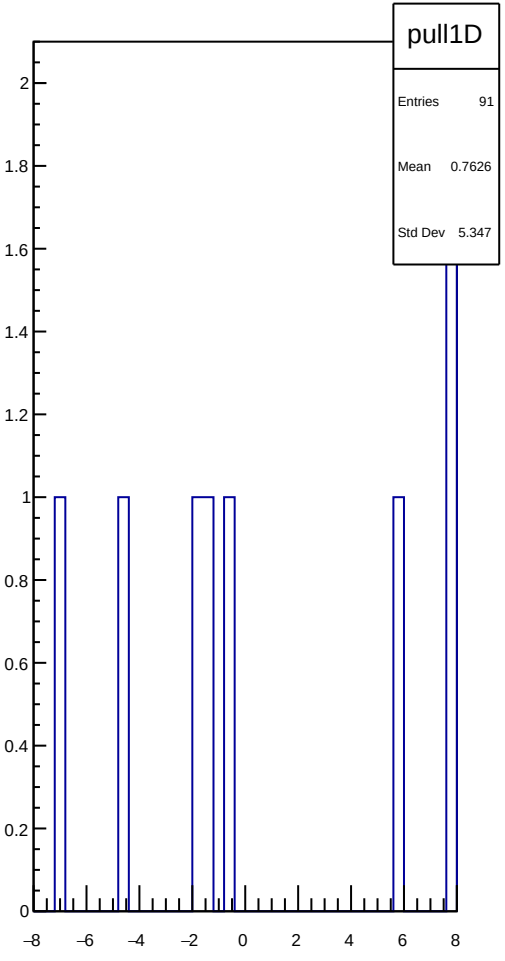

yield_bpm4eY_rms vs run
χ² / ndf 2.06e+04 / 90
p0 0.009827 ± 7.517e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

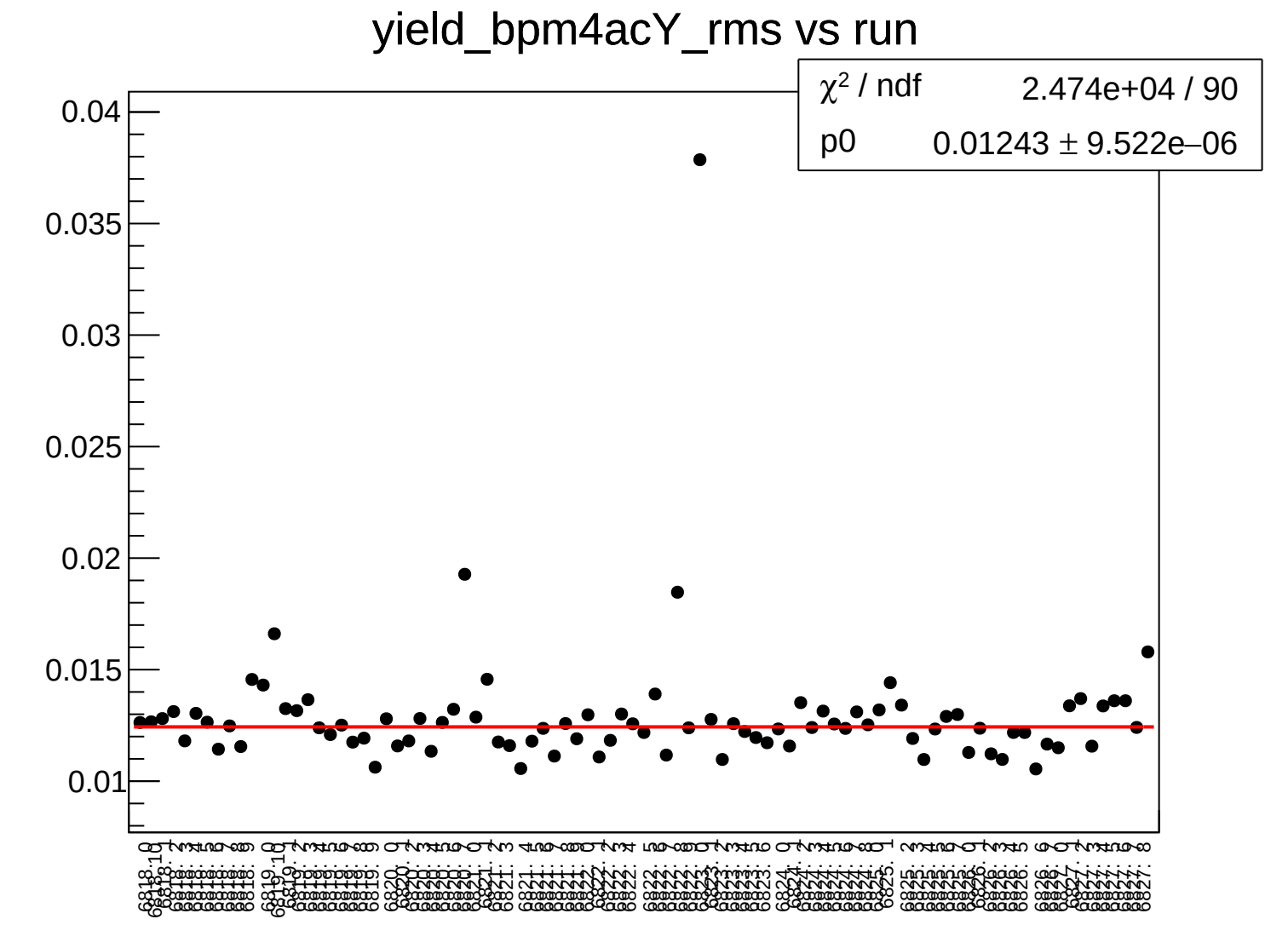

yield_bpm4acX_mean vs run
χ² / ndf 2.889e+05 / 90
p0 –0.7505 ± 2.4e–05
–0.7
–0.72
–0.74
–0.76
–0.78
pull
Entries 91
Mean 55.5
Std Dev 29.15
100
50
0
–50
–100

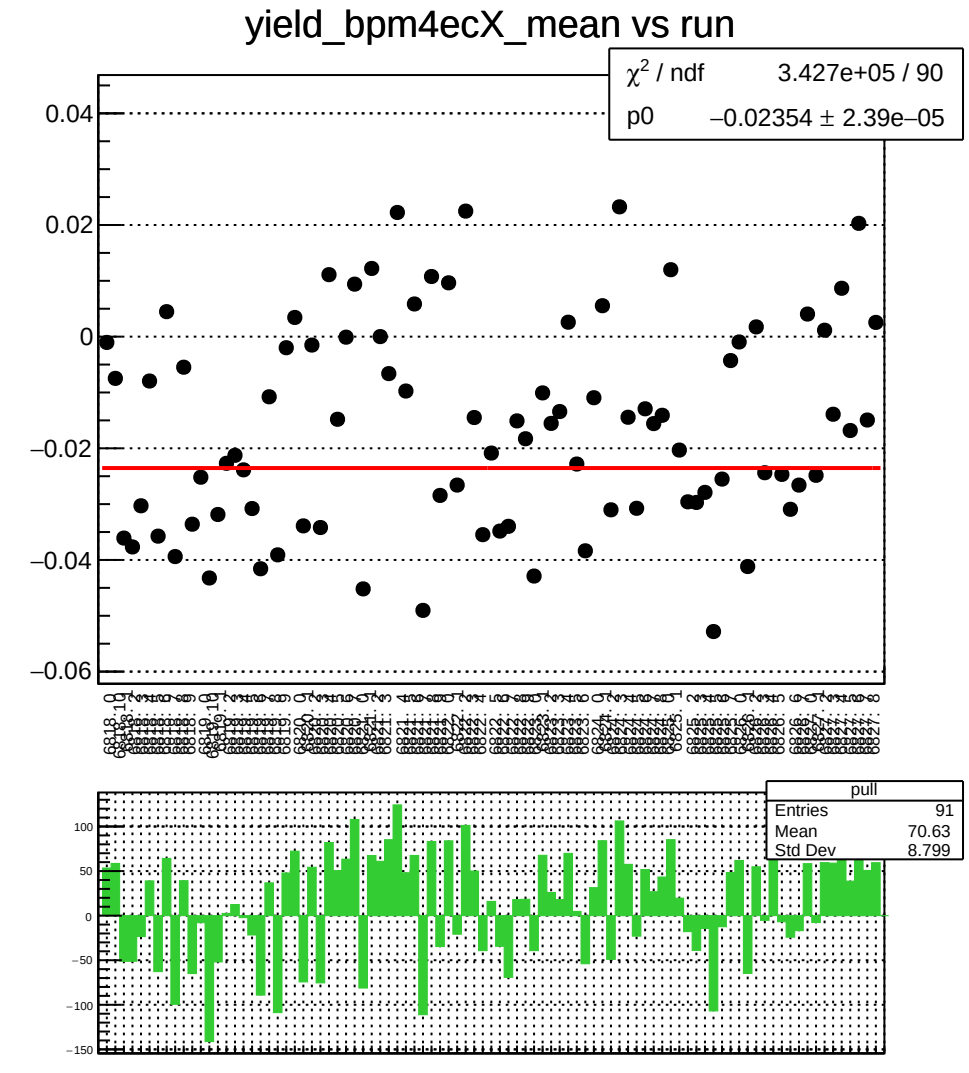

pull1D
Entries 91
Mean 3.29
Std Dev 5.061
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

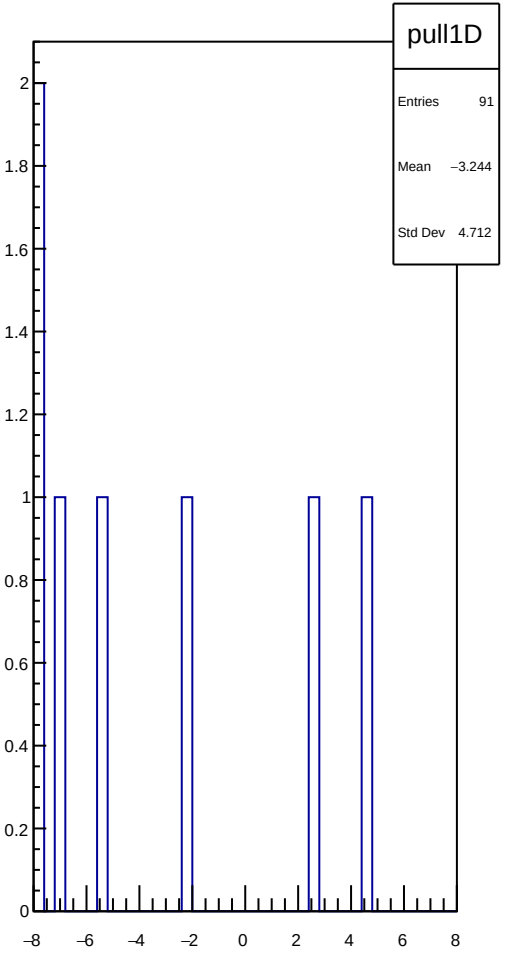

yield_bpm4acX_rms vs run
χ² / ndf 2.781e+05 / 90
p0 0.02045 ± 1.697e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

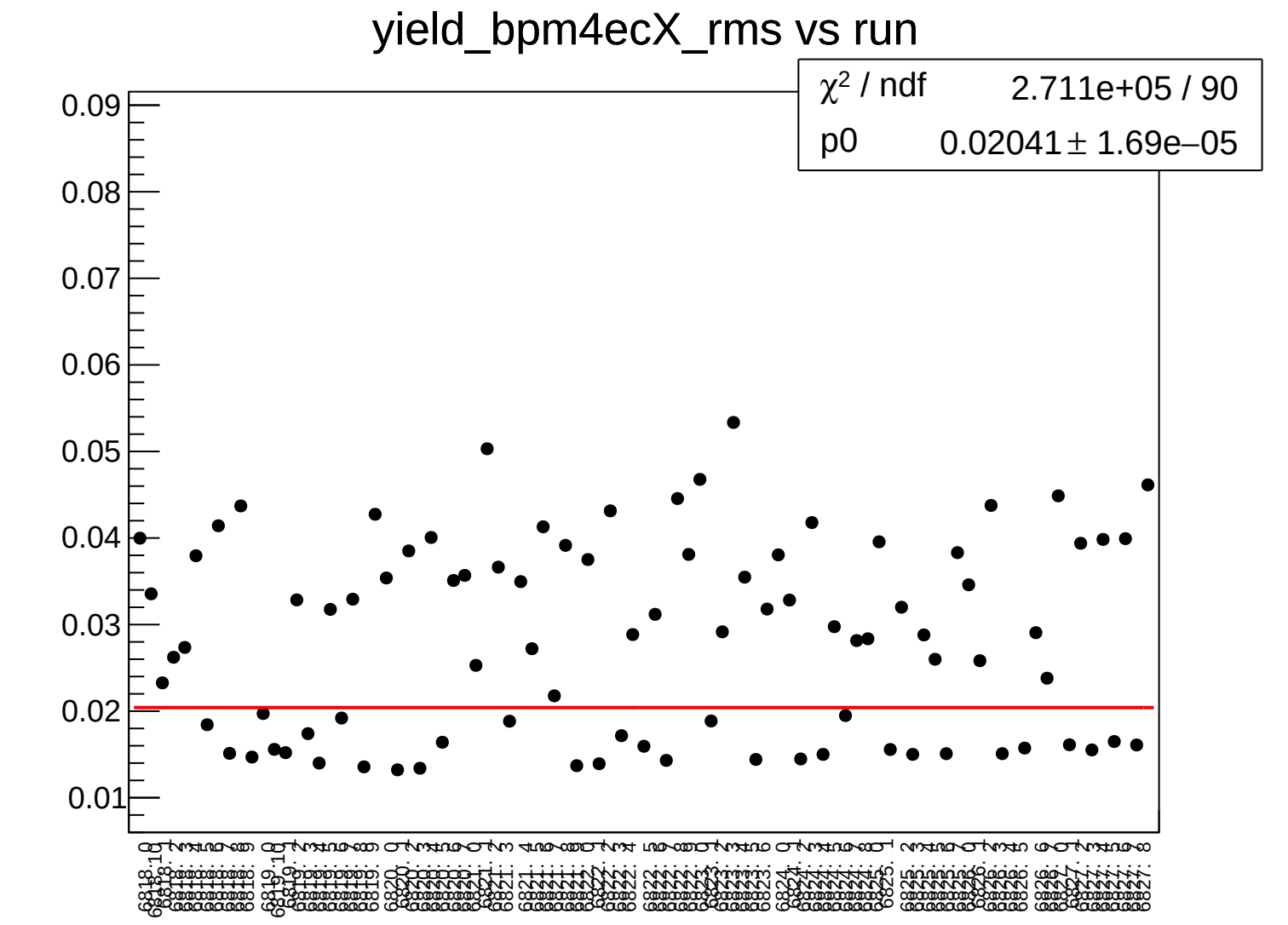

yield_bpm4acY_mean vs run
χ² / ndf 2.131e+05 / 90
p0 0.7993 ± 1.347e−05
0.825
0.82
0.815
0.81
0.805
0.8
0.795
0.79
0.785
pull
Entries 91
Mean −192.5
Std Dev 211.7
150
100
50
0
−50
−100

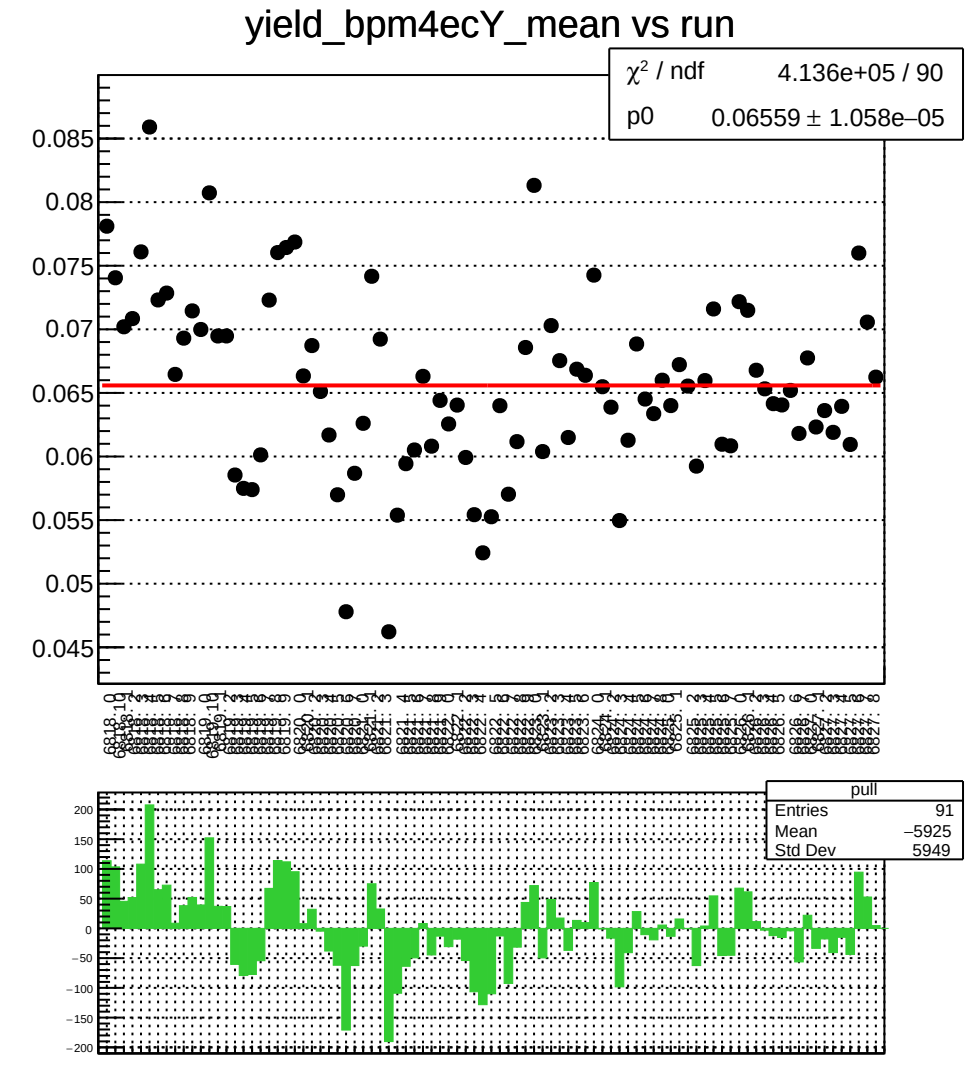

pull1D
Entries 91
Mean 0.7626
Std Dev 5.347
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

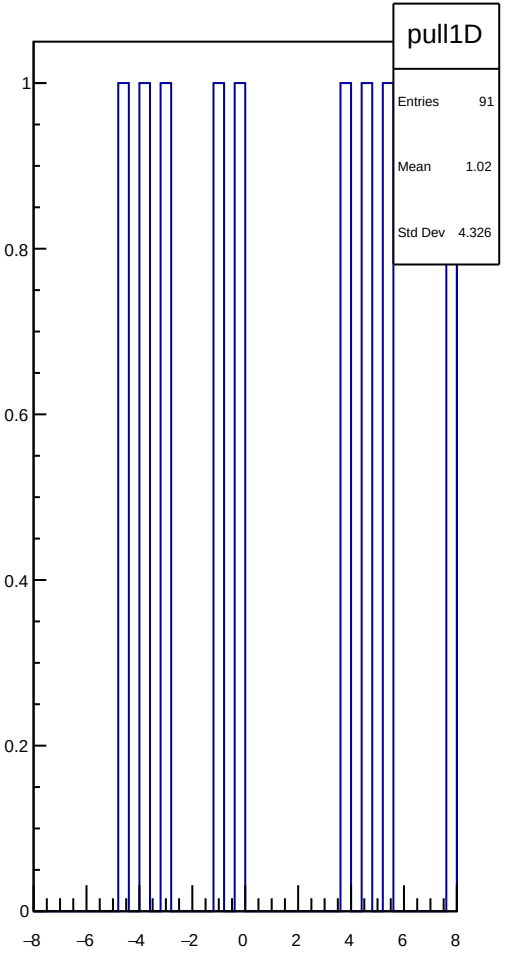

yield_bpm4acY_rms vs run
χ² / ndf 2.474e+04 / 90
p0 0.01243 ± 9.522e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

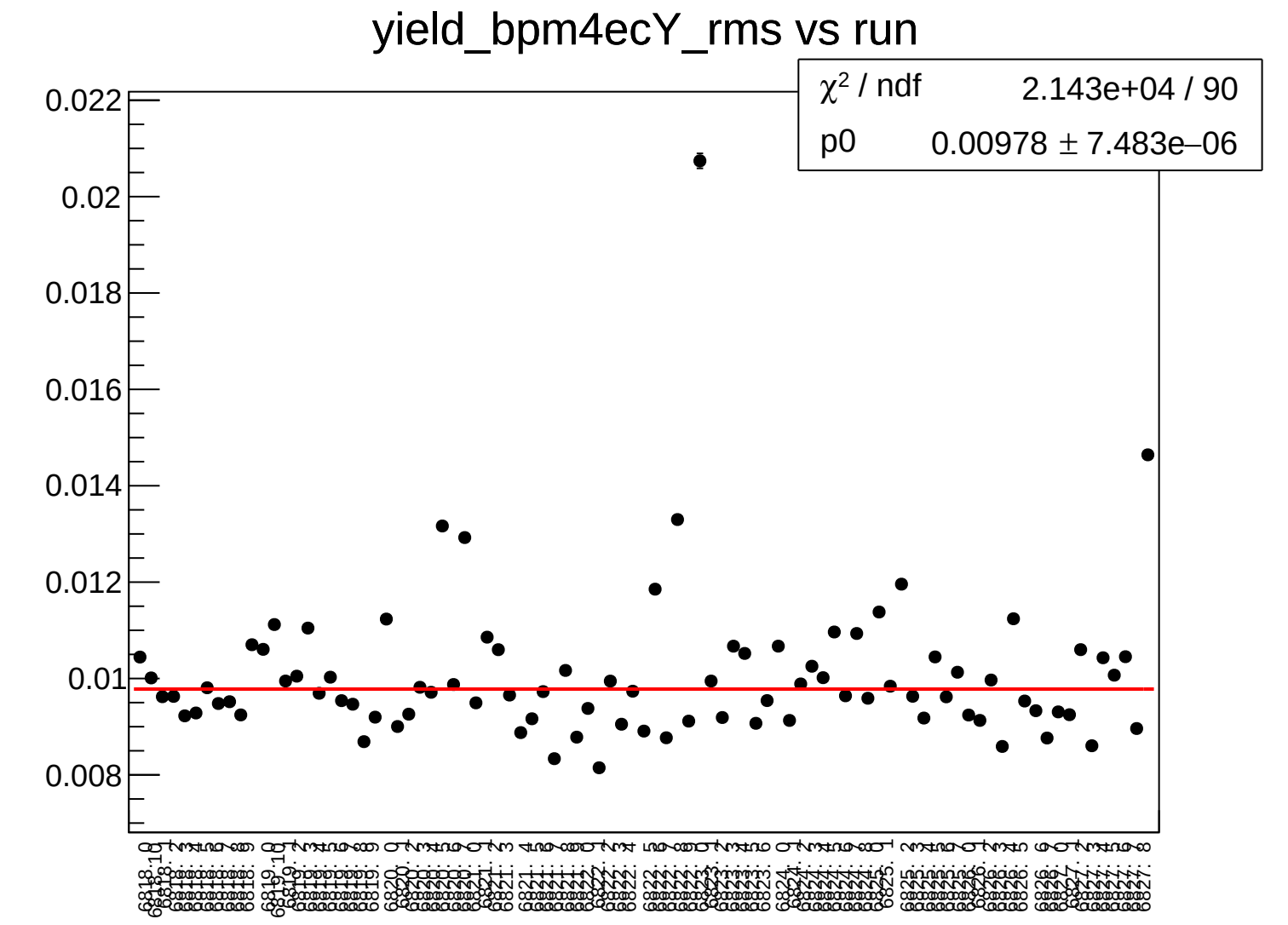

yield_bpm4ecX_mean vs run
χ² / ndf 3.427e+05 / 90
p0 −0.02354 ± 2.39e−05
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 70.63
Std Dev 8.799
100
50
0
−50
−100
−150

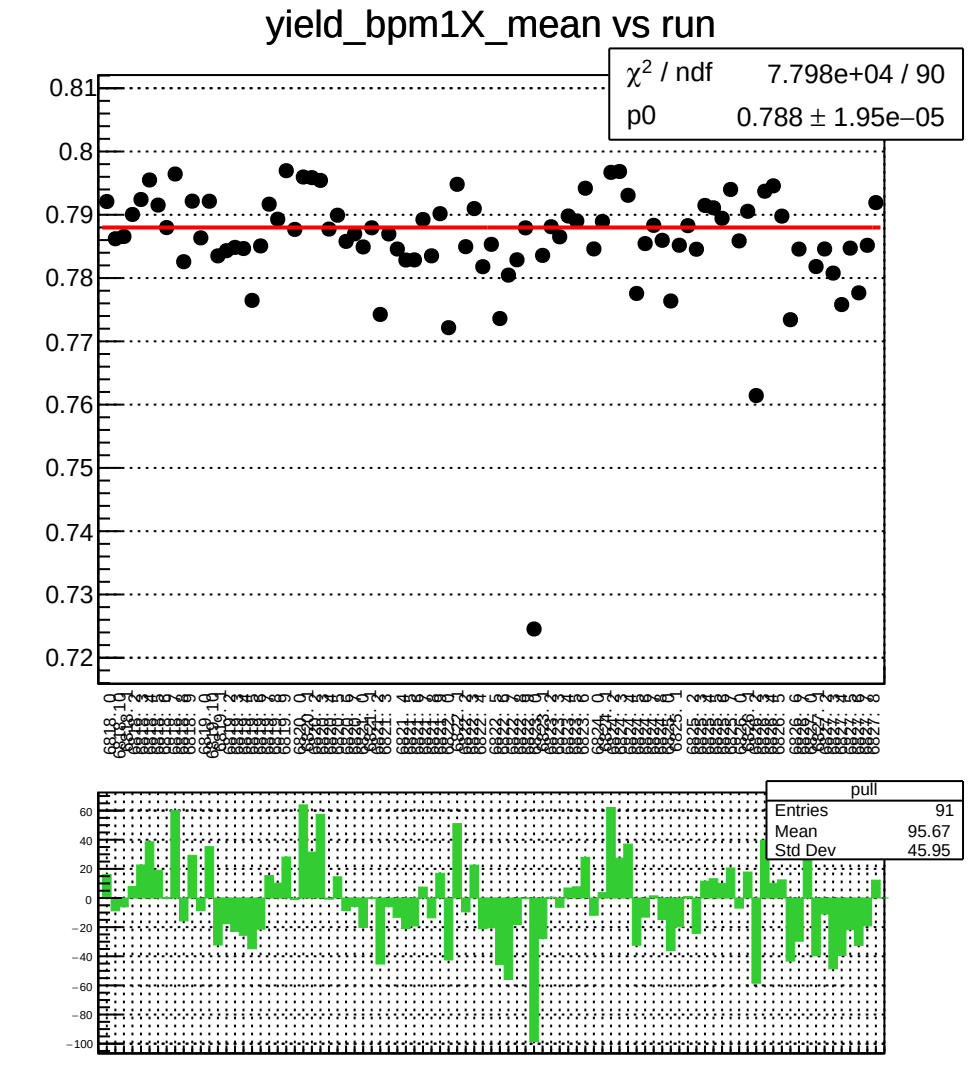

pull1D
Entries 91
Mean −3.244
Std Dev 4.712
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

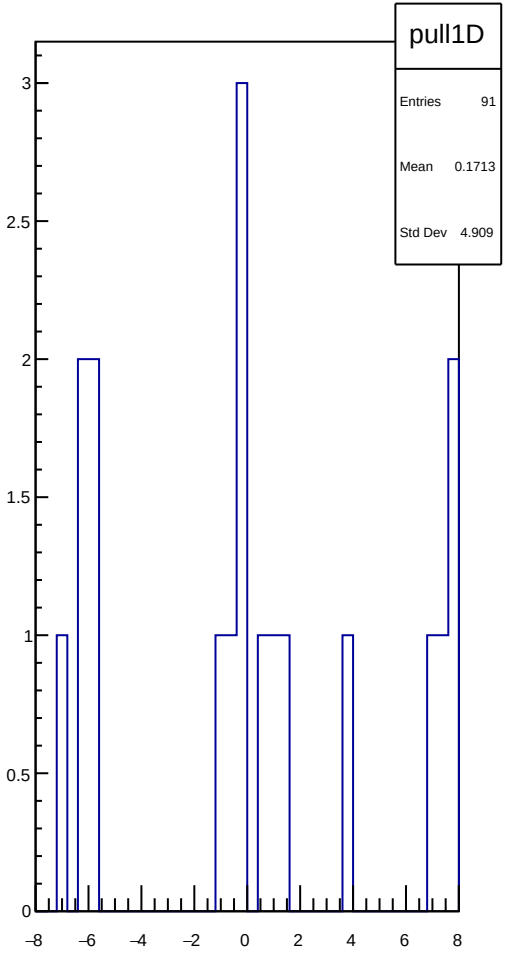

yield_bpm4ecX_rms vs run
χ² / ndf 2.711e+05 / 90
p0 0.02041 ± 1.69e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

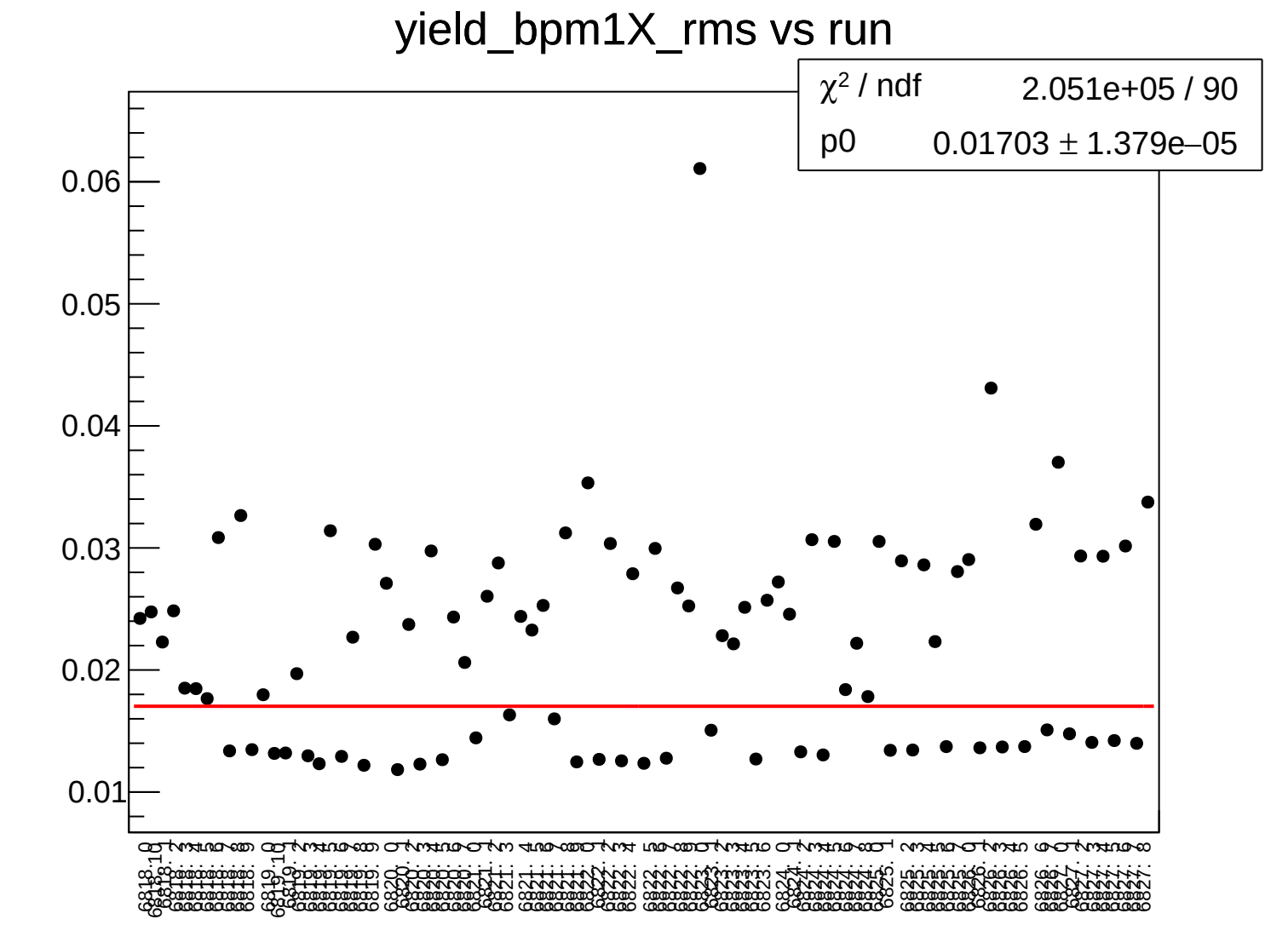

yield_bpm4ecY_mean vs run
χ² / ndf 4.136e+05 / 90
p0 0.06559 ± 1.058e−05
pull
Entries 91
Mean −5925
Std Dev 5949

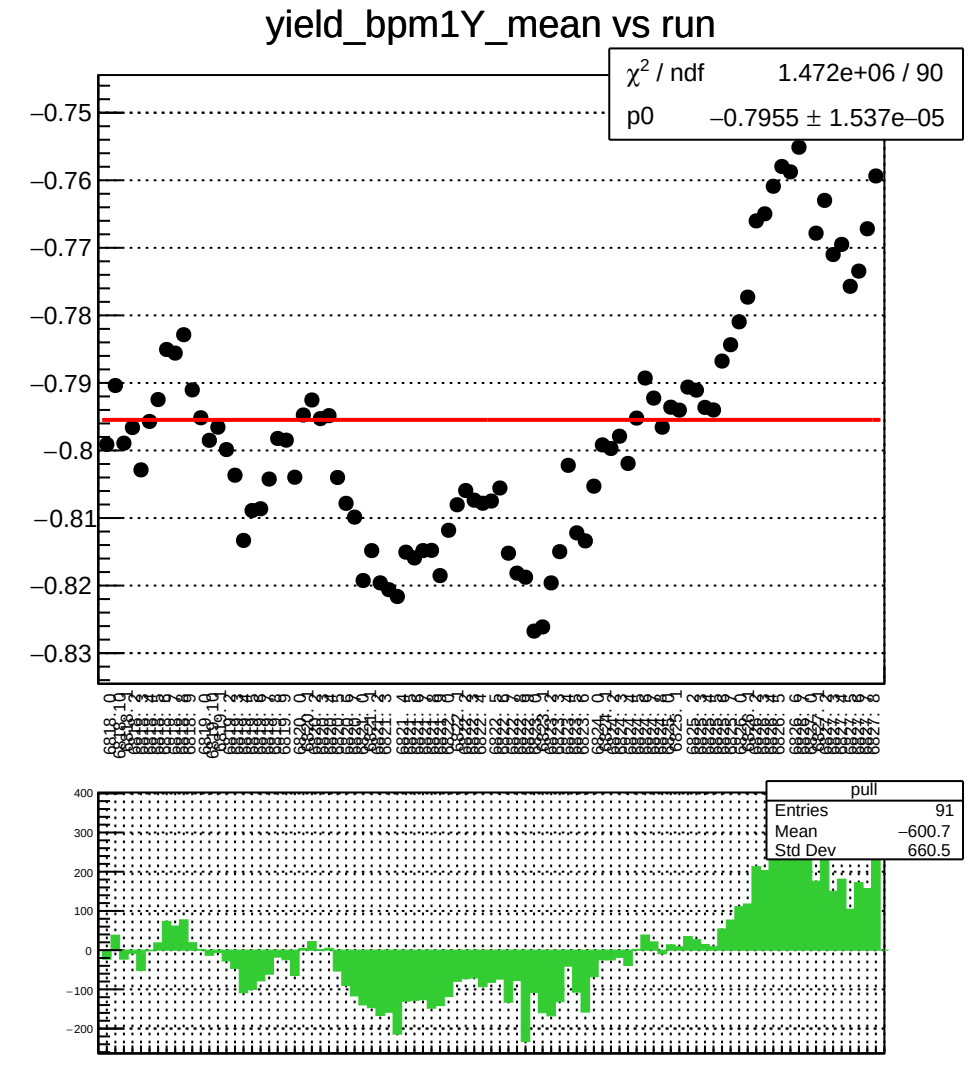

pull1D
Entries 91
Mean 1.02
Std Dev 4.326

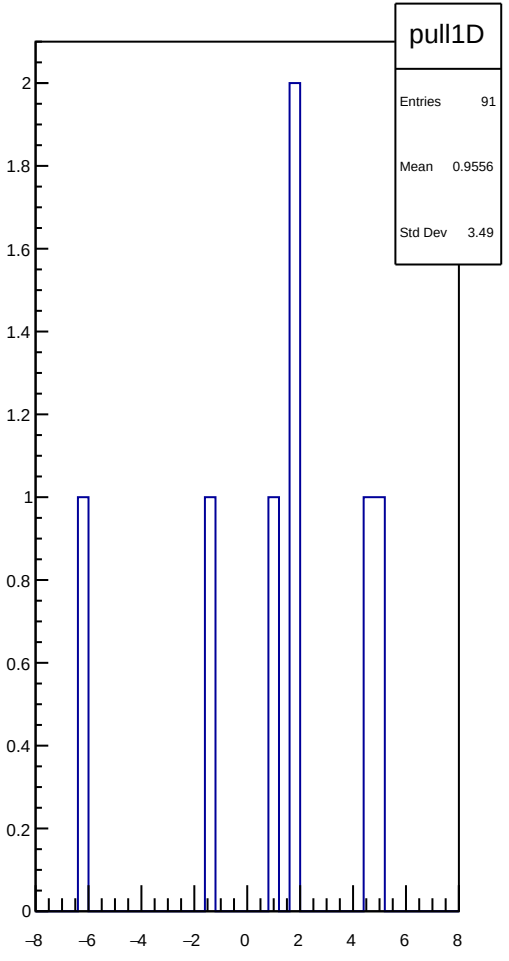

yield_bpm4ecY_rms vs run
χ² / ndf 2.143e+04 / 90
p0 0.00978 ± 7.483e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

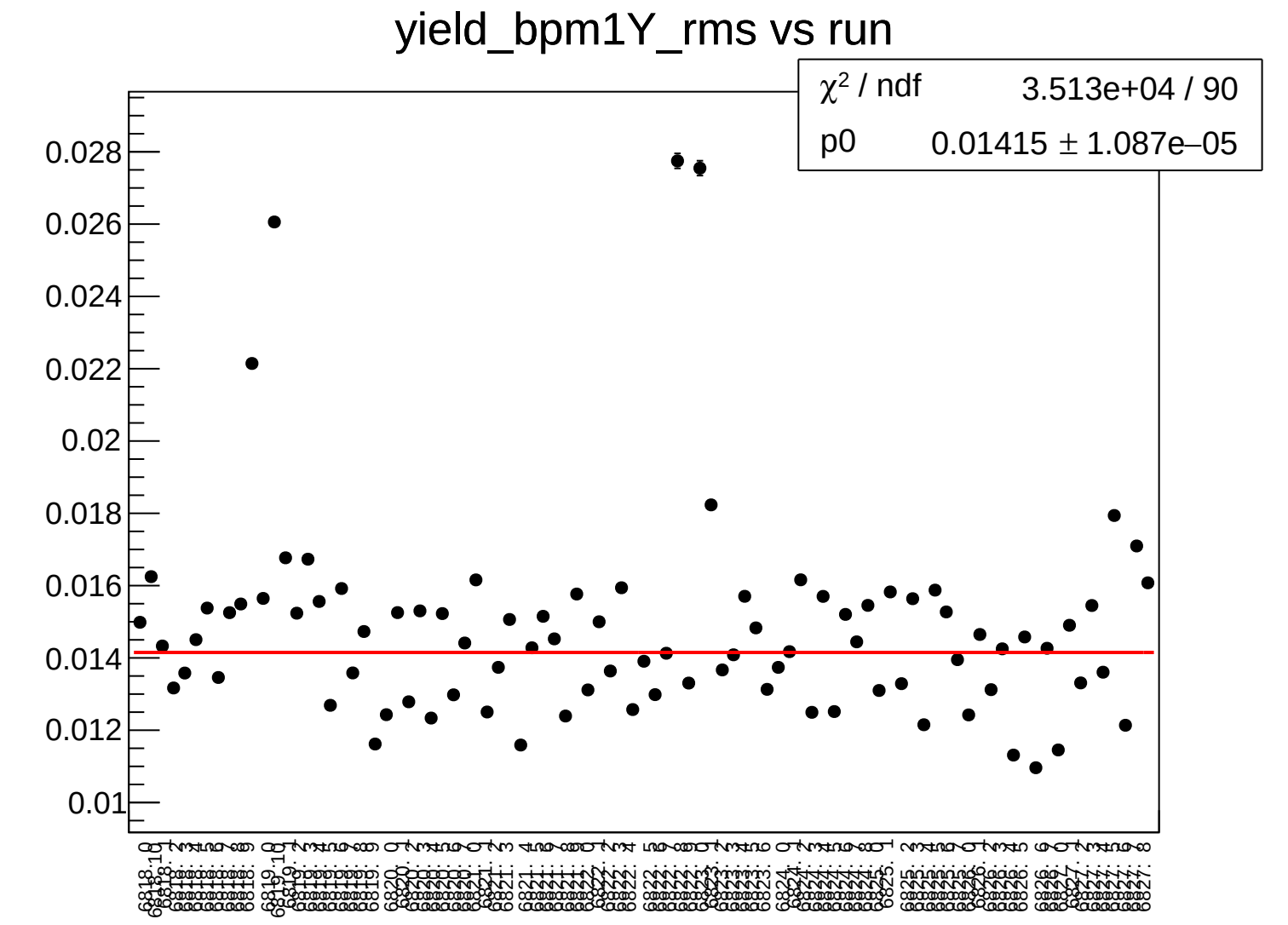

yield_bpm1X_mean vs run
χ² / ndf 7.798e+04 / 90
p0 0.788 ± 1.95e−05
pull
Entries 91
Mean 95.67
Std Dev 45.95

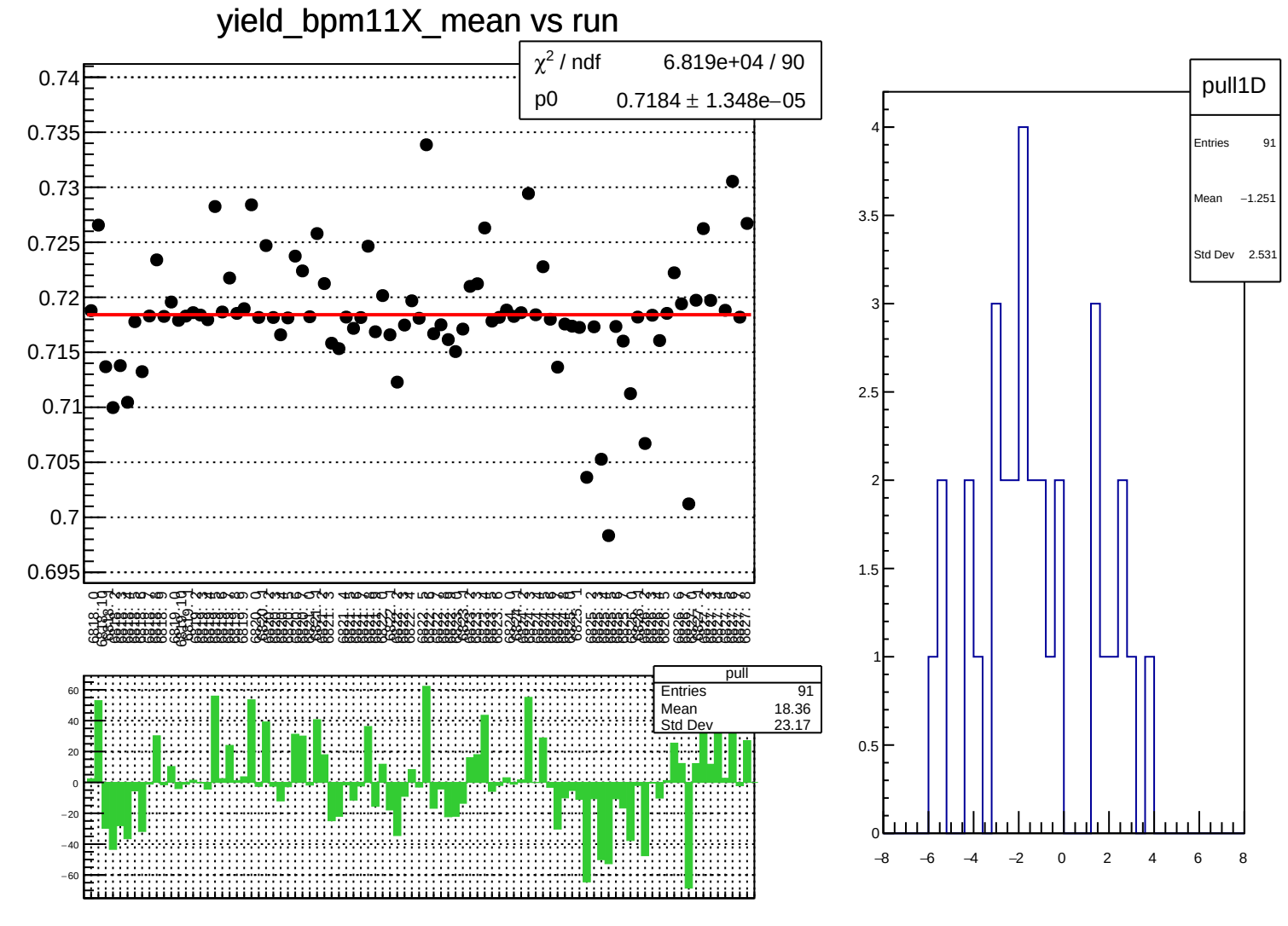

pull1D
Entries 91
Mean 0.1713
Std Dev 4.909

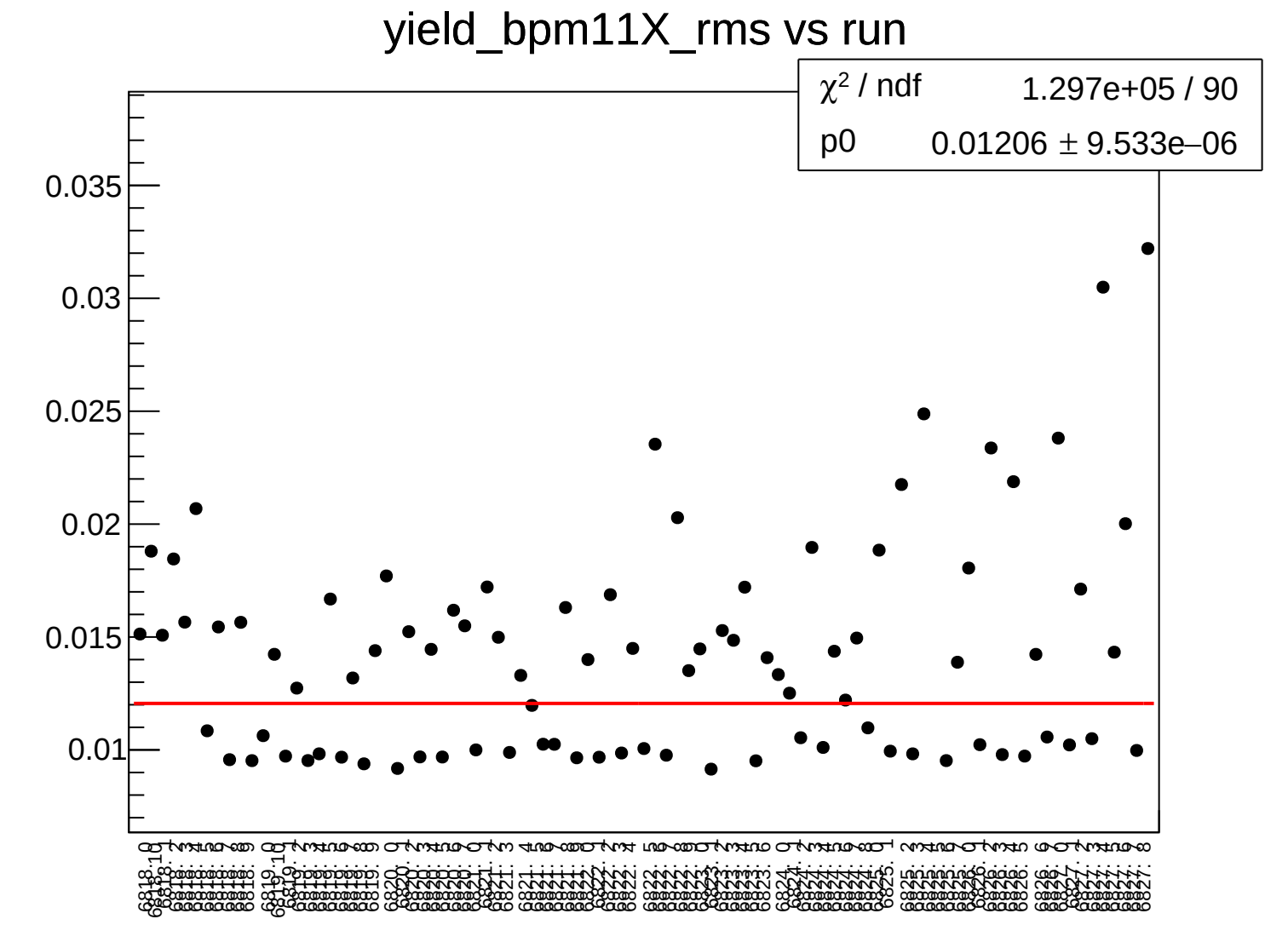

yield_bpm1X_rms vs run
χ² / ndf 2.051e+05 / 90
p0 0.01703 ± 1.379e−05
0.06
0.05
0.04
0.03
0.02
0.01

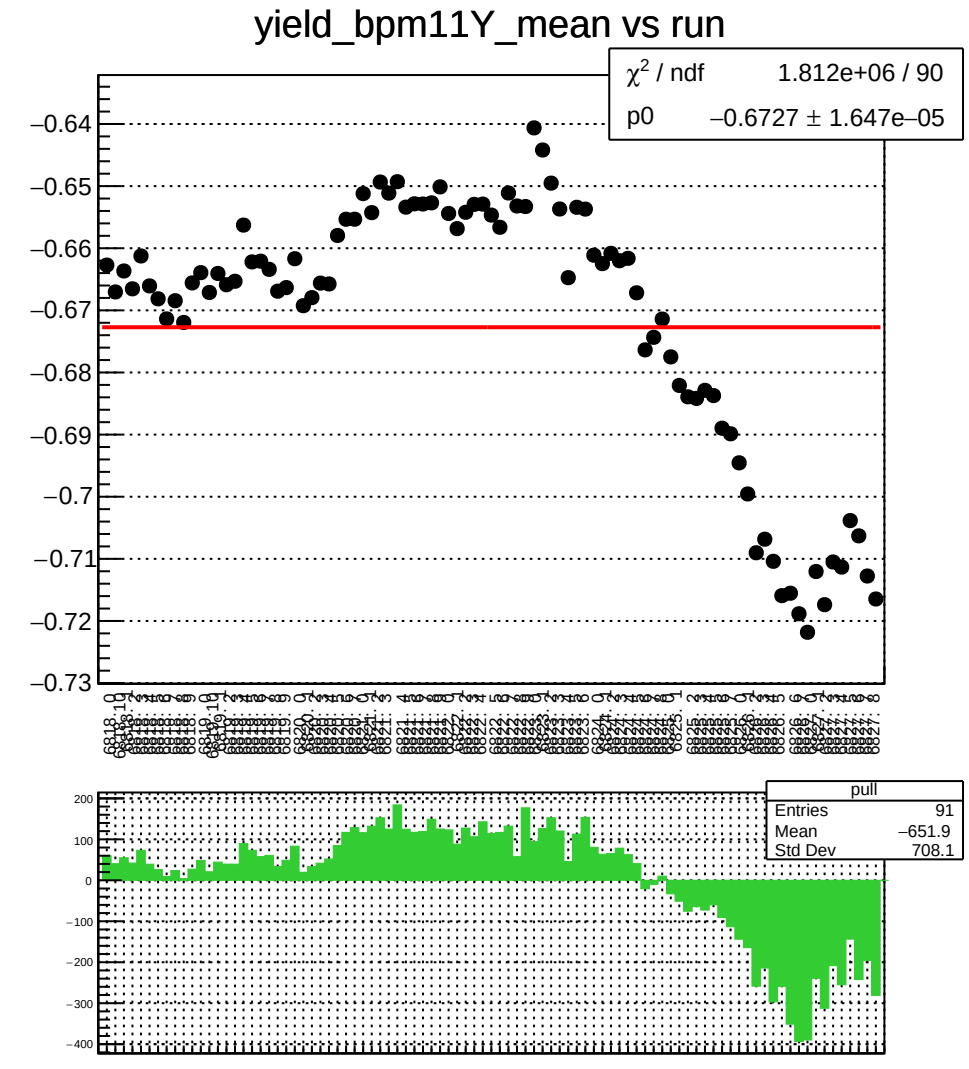

yield_bpm1Y_mean vs run
χ² / ndf 1.472e+06 / 90
p0 −0.7955 ± 1.537e−05
−0.75
−0.76
−0.77
−0.78
−0.79
−0.8
−0.81
−0.82
−0.83
pull
Entries 91
Mean −600.7
Std Dev 660.5
400
300
200
100
0
−100
−200

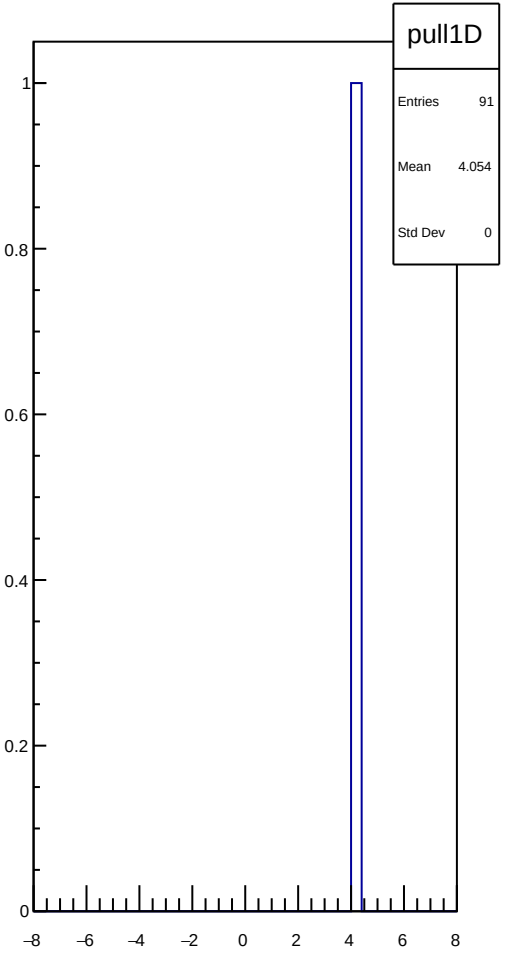

pull1D
Entries 91
Mean 0.9556
Std Dev 3.49
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

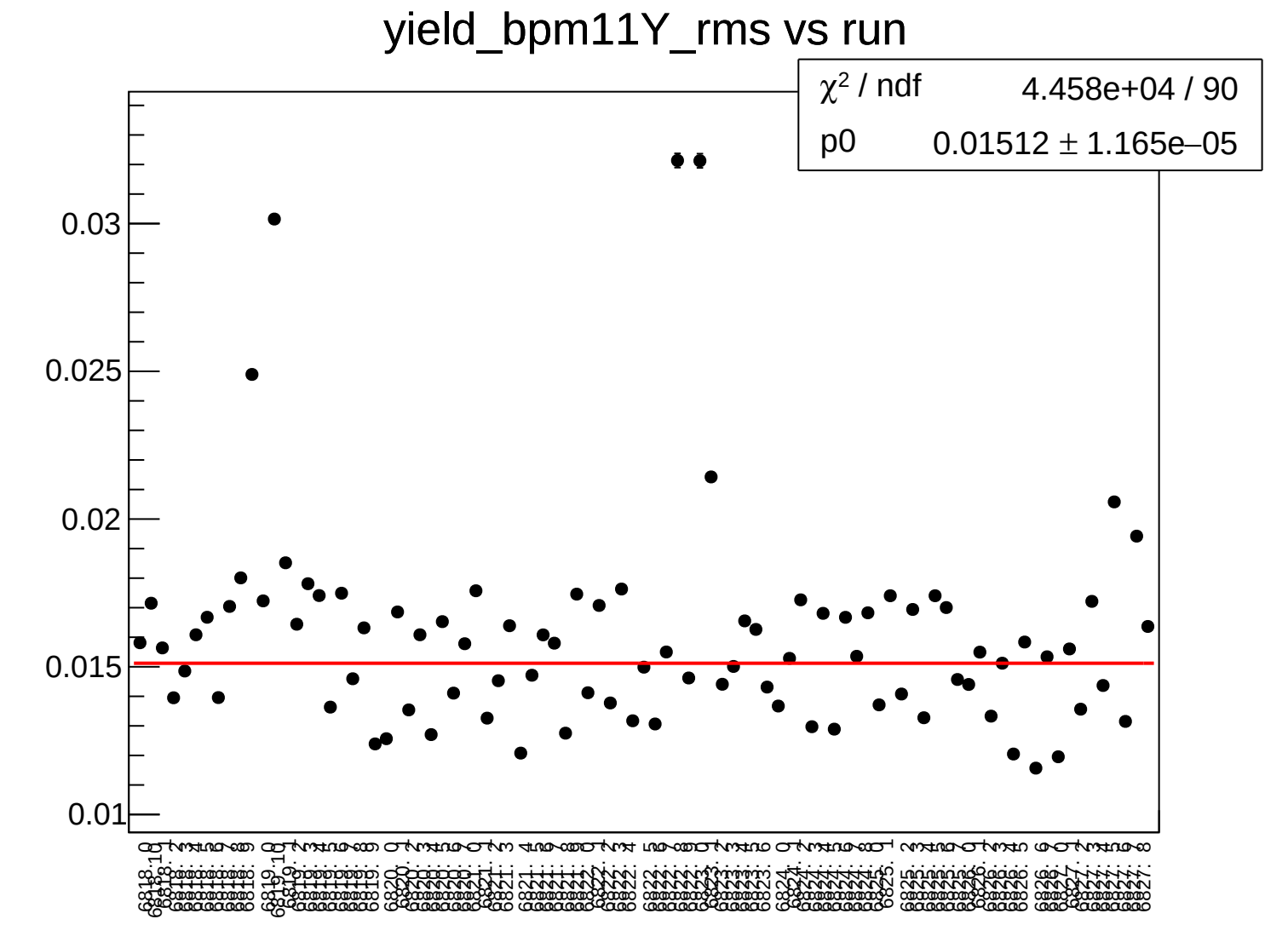

yield_bpm1Y_rms vs run
χ² / ndf 3.513e+04 / 90
p0 0.01415 ± 1.087e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

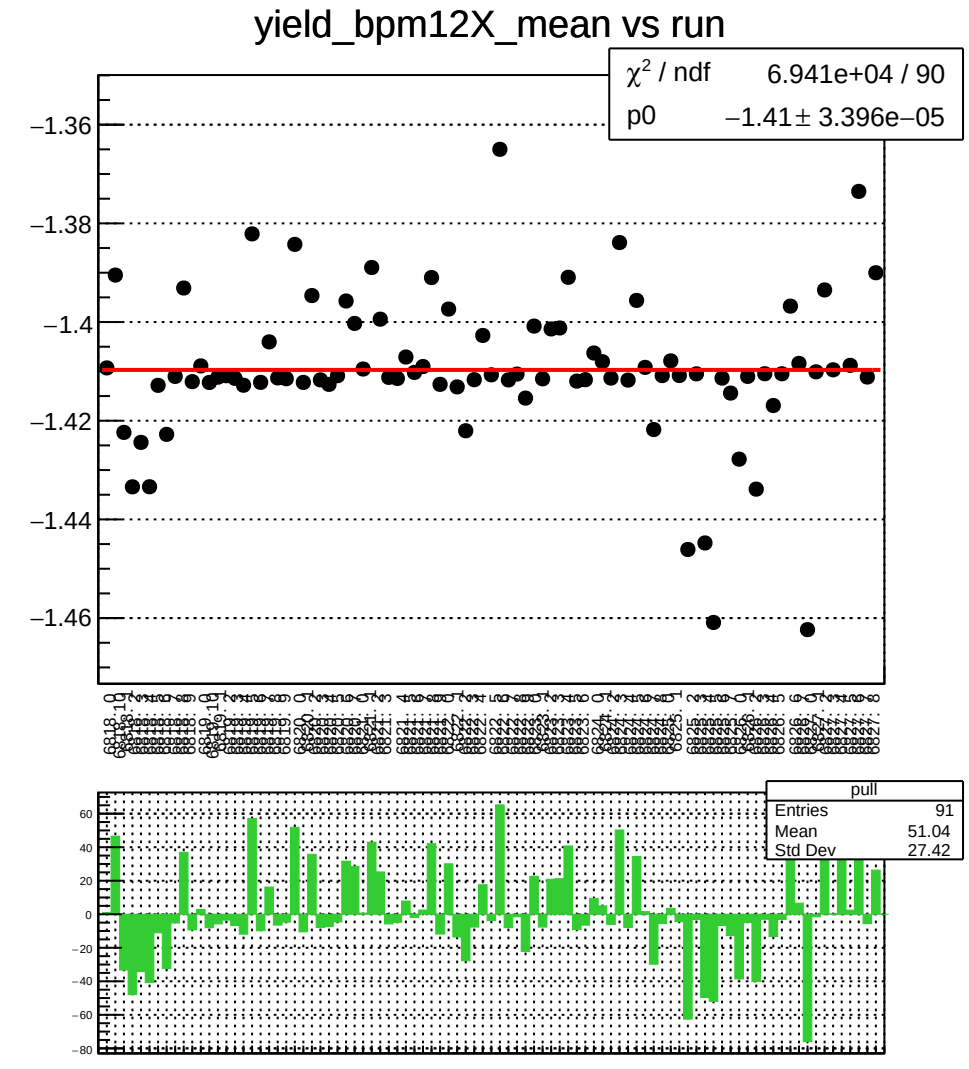

yield_bpm11X_mean vs run
χ² / ndf 6.819e+04 / 90
p0 0.7184 ± 1.348e−05
pull
Entries 91
Mean 18.36
Std Dev 23.17
pull1D
Entries 91
Mean −1.251
Std Dev 2.531

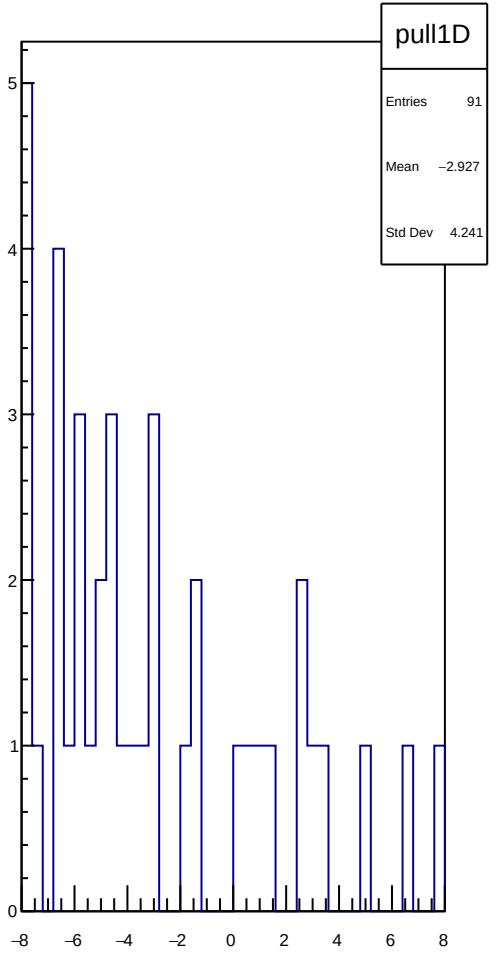

yield_bpm11X_rms vs run
χ² / ndf 1.297e+05 / 90
p0 0.01206 ± 9.533e–06
0.035
0.03
0.025
0.02
0.015
0.01

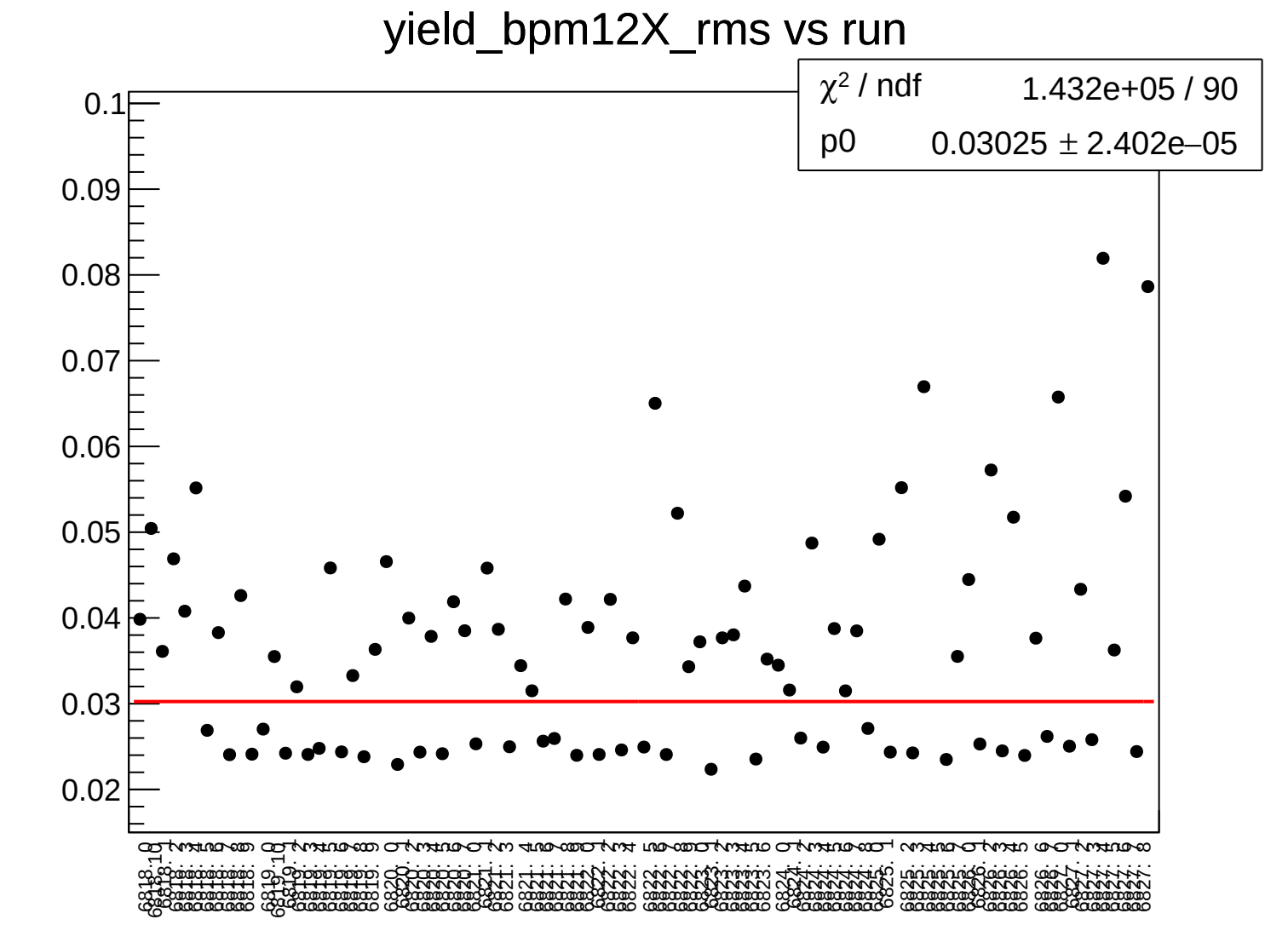

yield_bpm11Y_mean vs run
χ² / ndf 1.812e+06 / 90
p0 −0.6727 ± 1.647e−05
−0.64
−0.65
−0.66
−0.67
−0.68
−0.69
−0.7
−0.71
−0.72
−0.73
pull
Entries 91
Mean −651.9
Std Dev 708.1
200
100
0
−100
−200
−300
−400

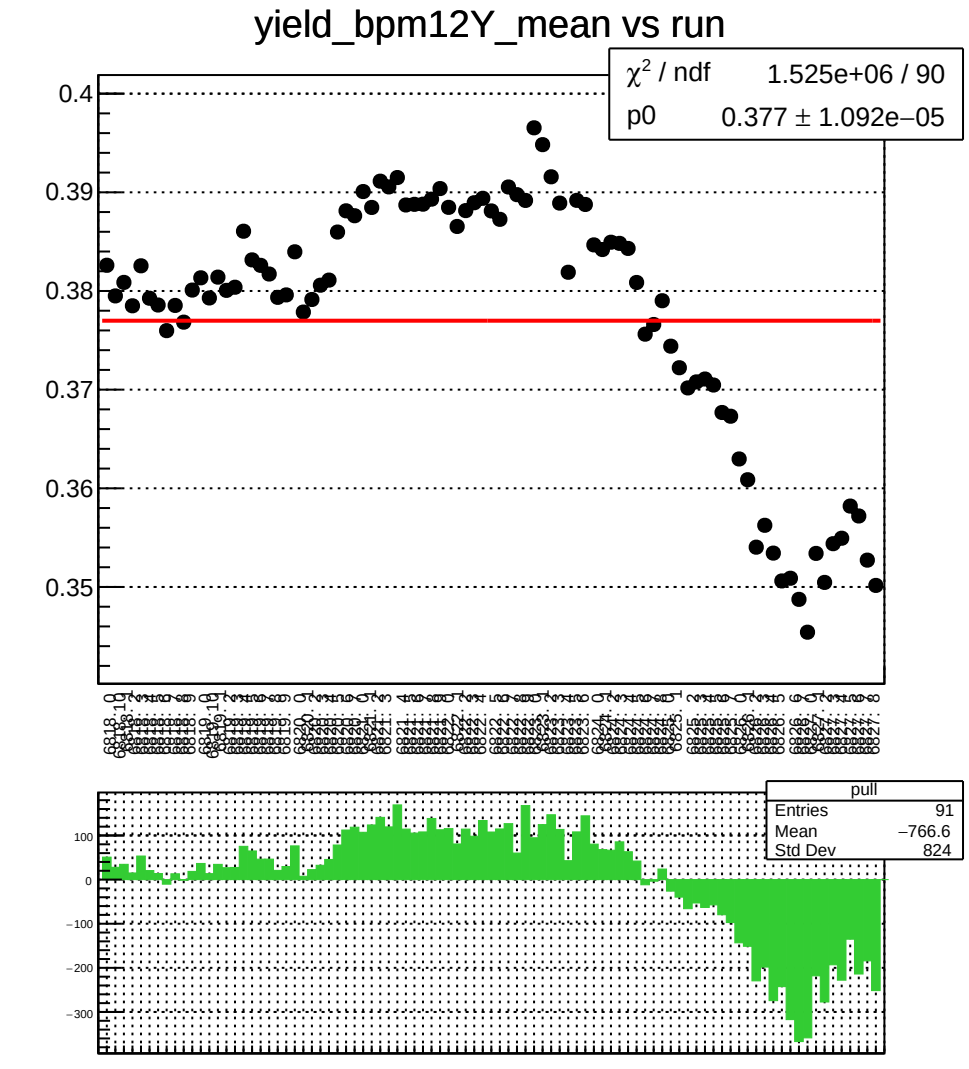

pull1D
Entries 91
Mean 4.054
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

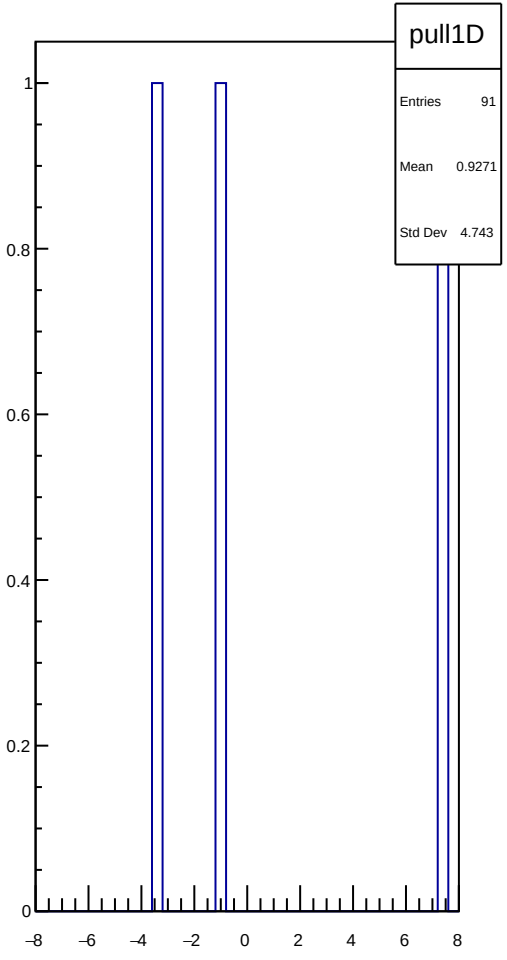

yield_bpm11Y_rms vs run
χ^2 / ndf 4.458e+04 / 90
p0 0.01512 ± 1.165e−05
0.03
0.025
0.02
0.015
0.01

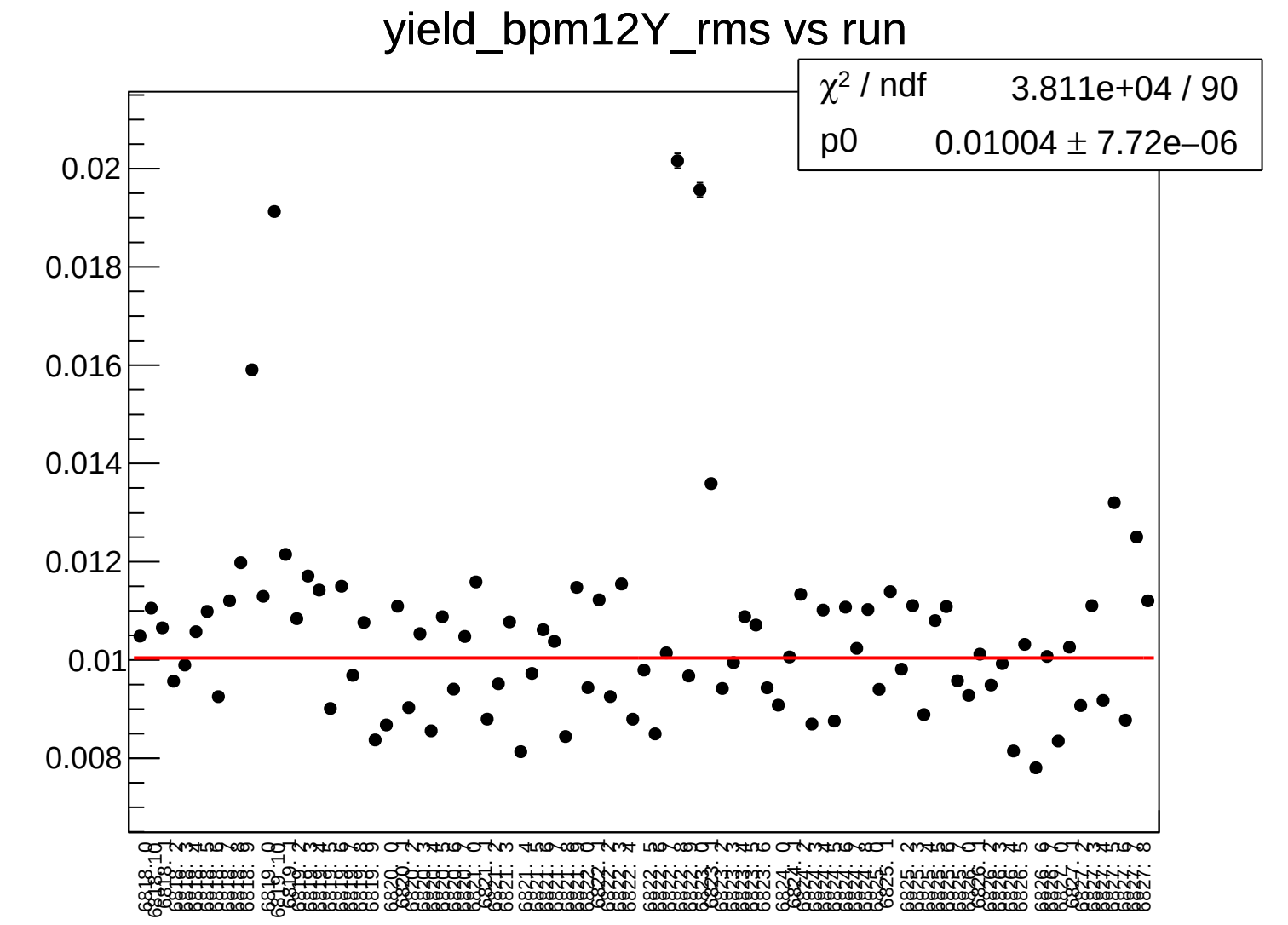

yield_bpm12X_mean vs run
χ² / ndf 6.941e+04 / 90
p0 −1.41 ± 3.396e−05
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
pull
Entries 91
Mean 51.04
Std Dev 27.42
60
40
20
0
−20
−40
−60
−80

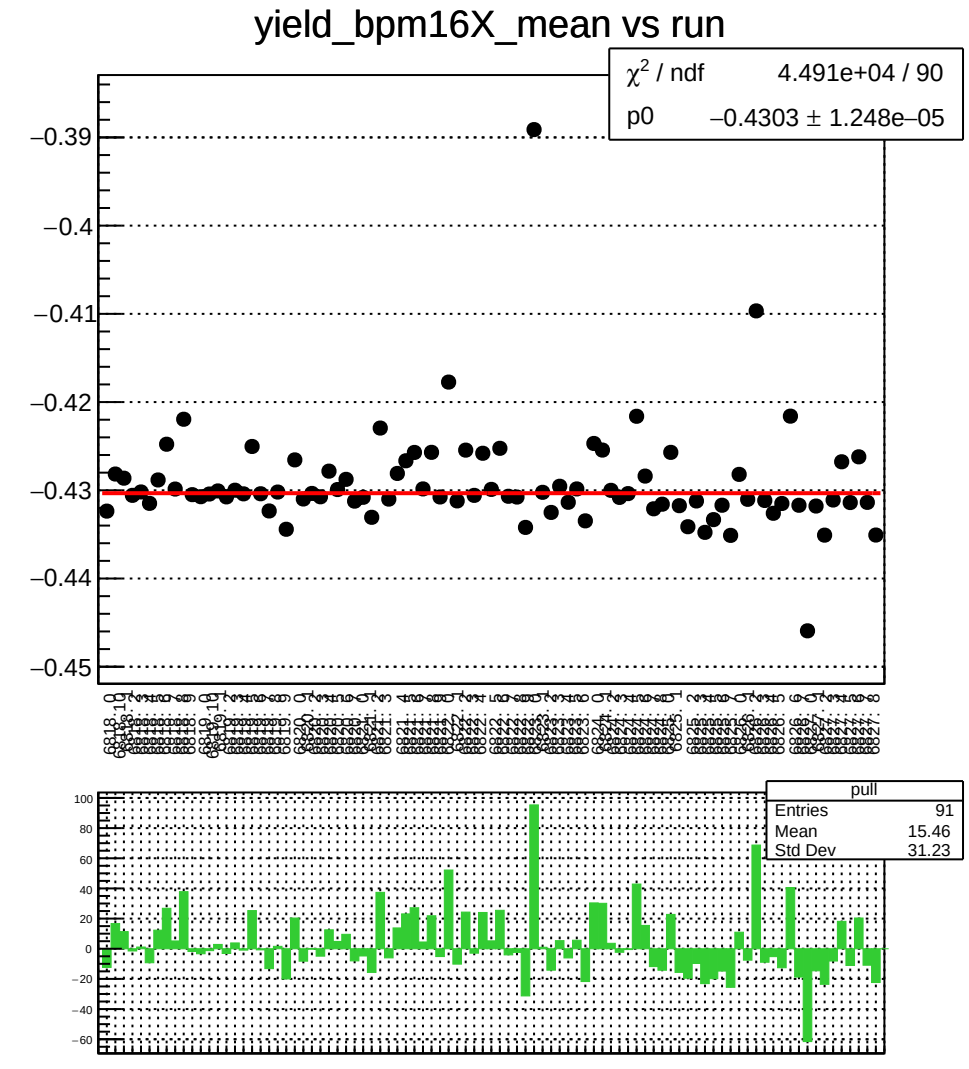

pull1D
Entries 91
Mean −2.927
Std Dev 4.241
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

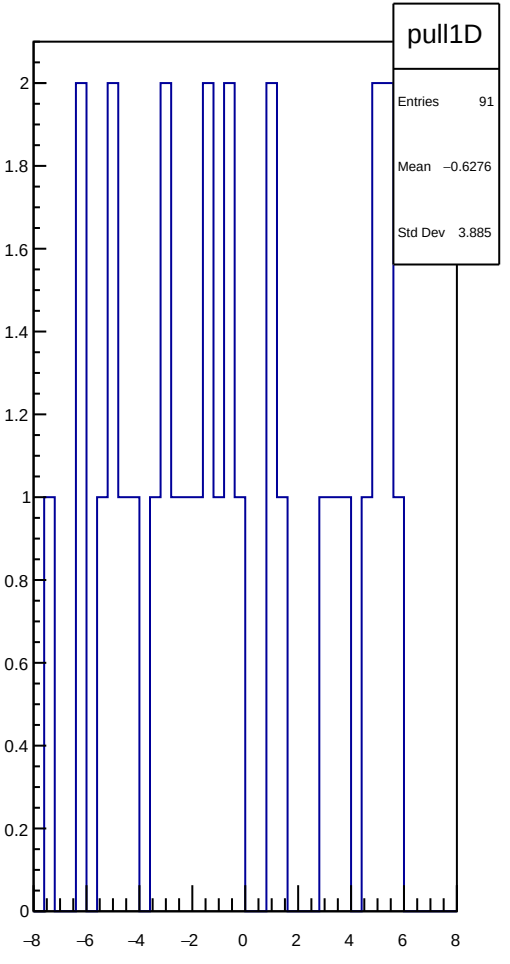

yield_bpm12X_rms vs run
χ² / ndf 1.432e+05 / 90
p0 0.03025 ± 2.402e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

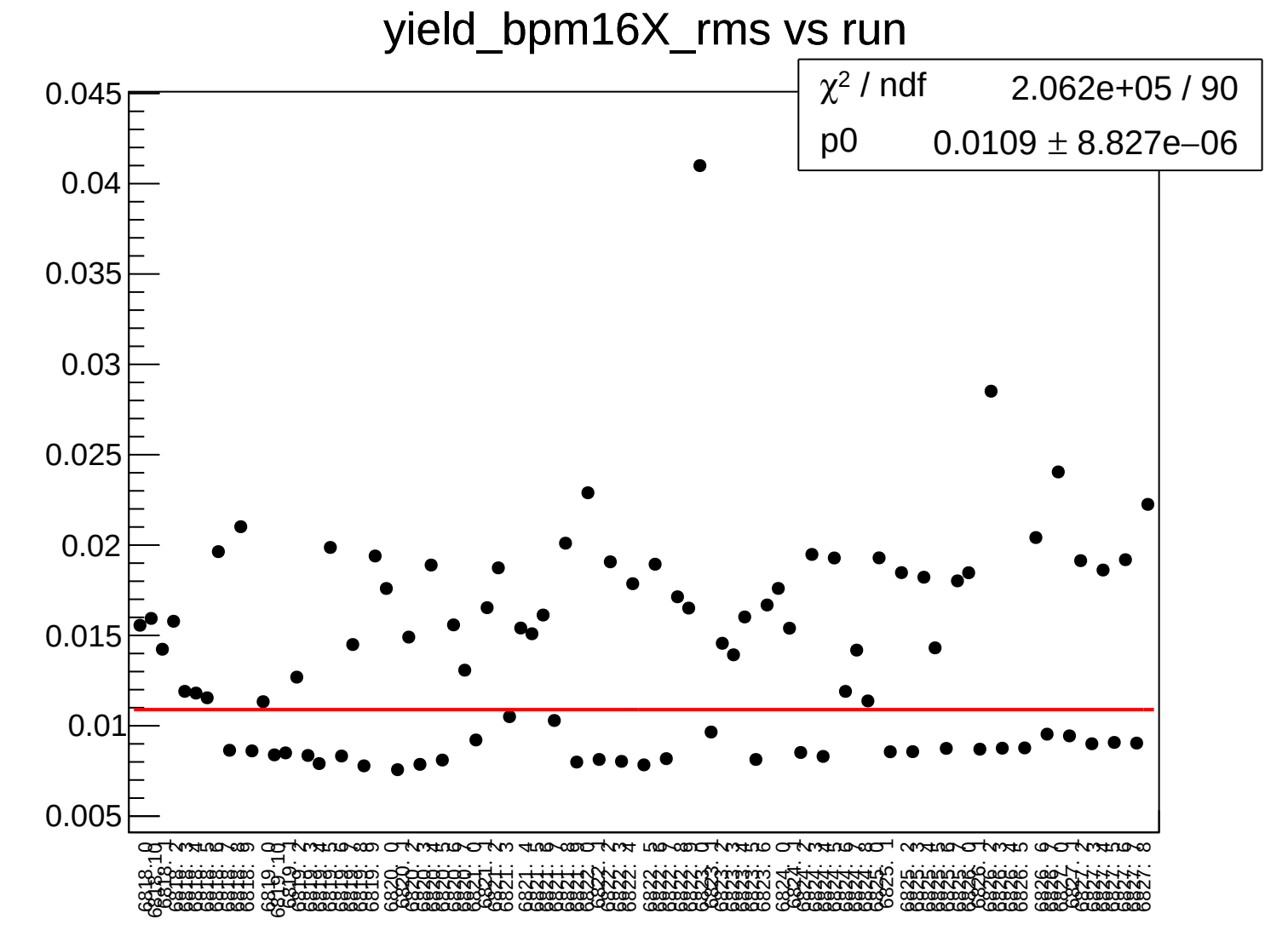

yield_bpm12Y_mean vs run
χ² / ndf 1.525e+06 / 90
p0 0.377 ± 1.092e−05
0.4
0.39
0.38
0.37
0.36
0.35
pull
Entries 91
Mean −766.6
Std Dev 824
100
0
−100
−200
−300

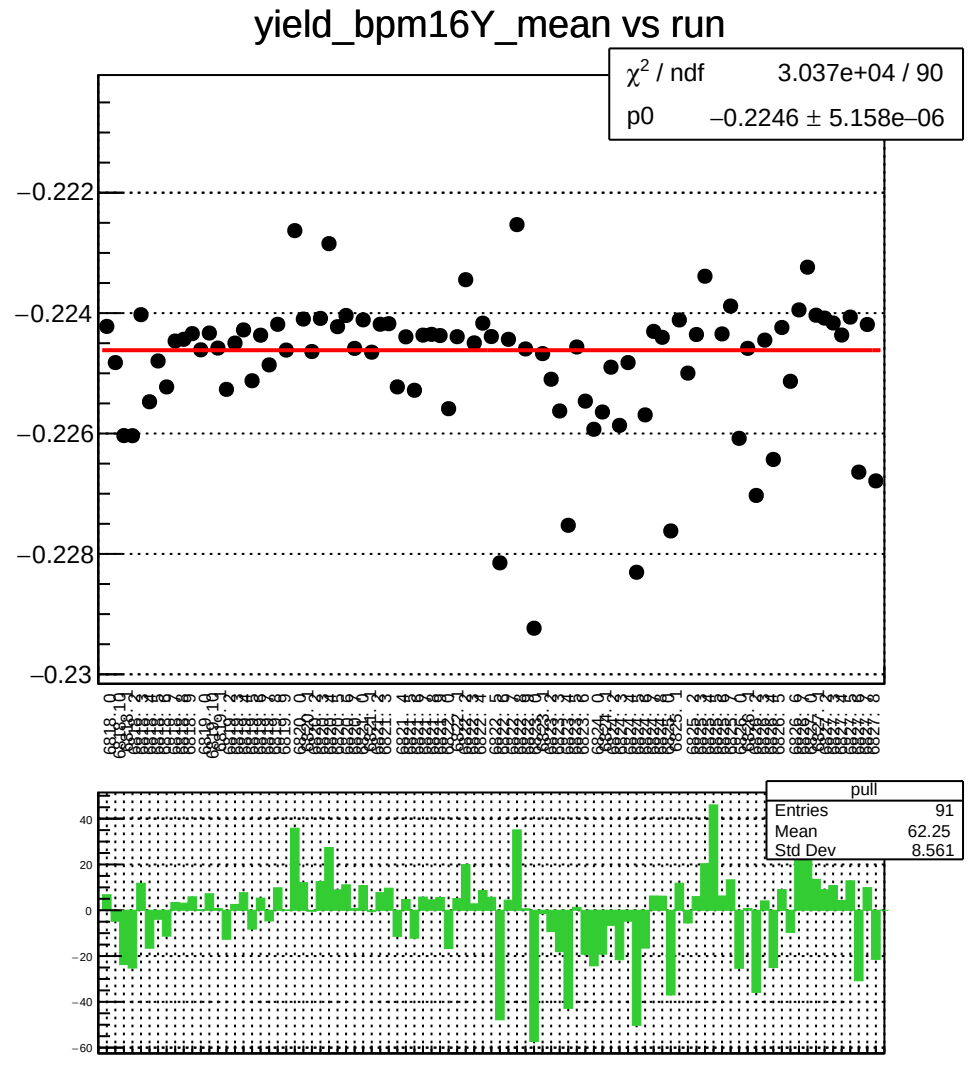

pull1D
Entries 91
Mean 0.9271
Std Dev 4.743
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

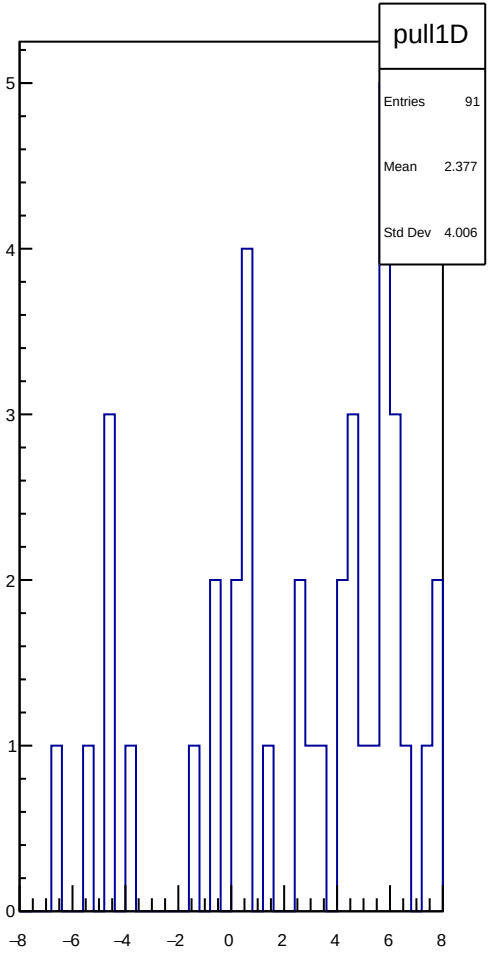

yield_bpm12Y_rms vs run
χ² / ndf 3.811e+04 / 90
p0 0.01004 ± 7.72e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

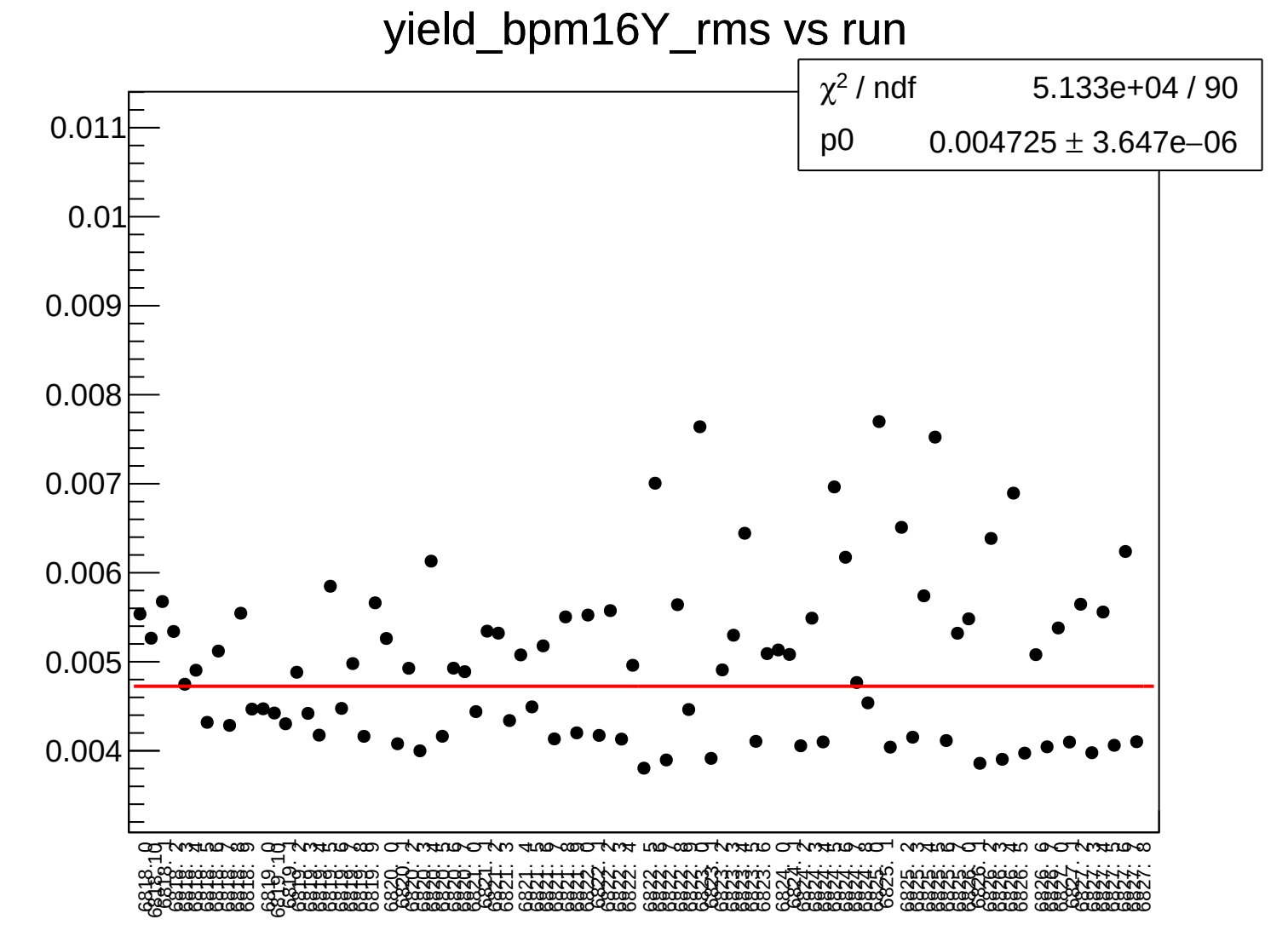

yield_bpm16X_mean vs run
χ² / ndf 4.491e+04 / 90
p0 −0.4303 ± 1.248e−05
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
pull
Entries 91
Mean 15.46
Std Dev 31.23
100
80
60
40
20
0
−20
−40
−60

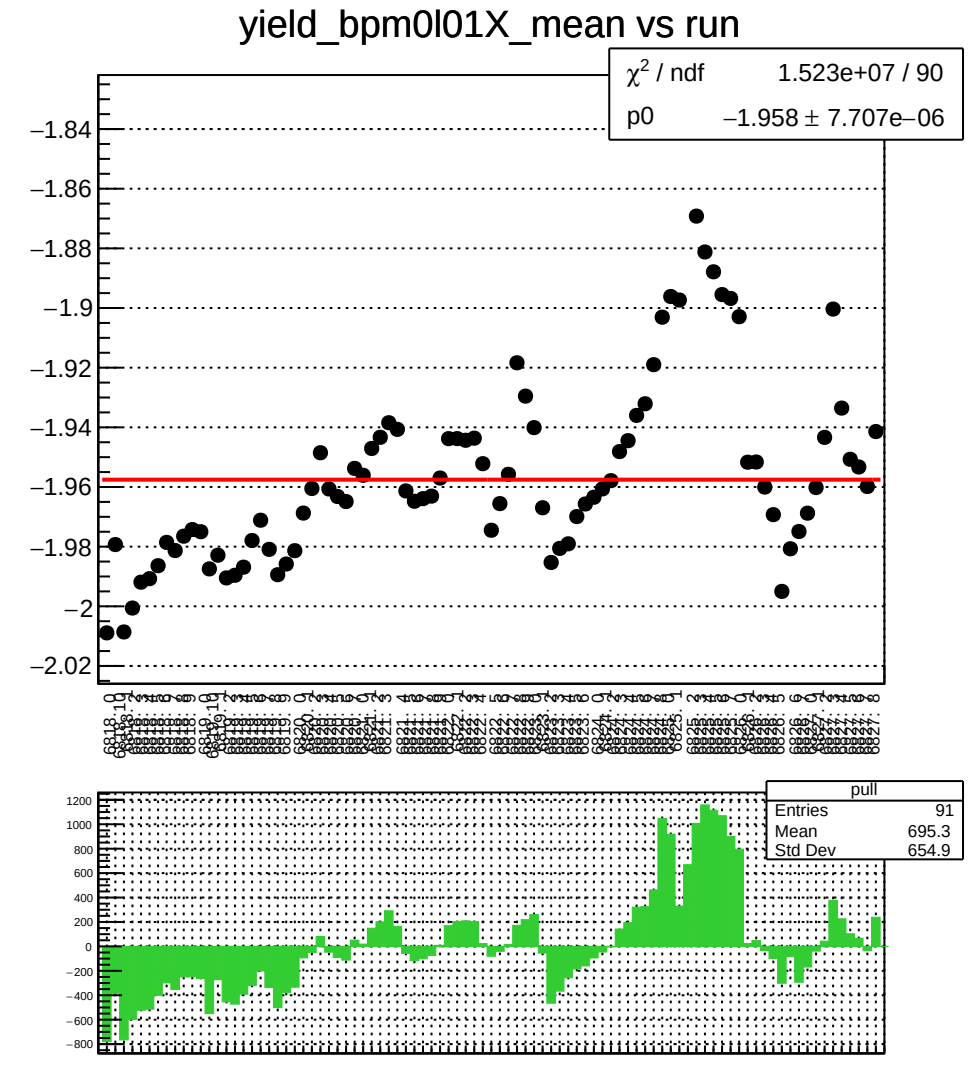

pull1D
Entries 91
Mean −0.6276
Std Dev 3.885
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

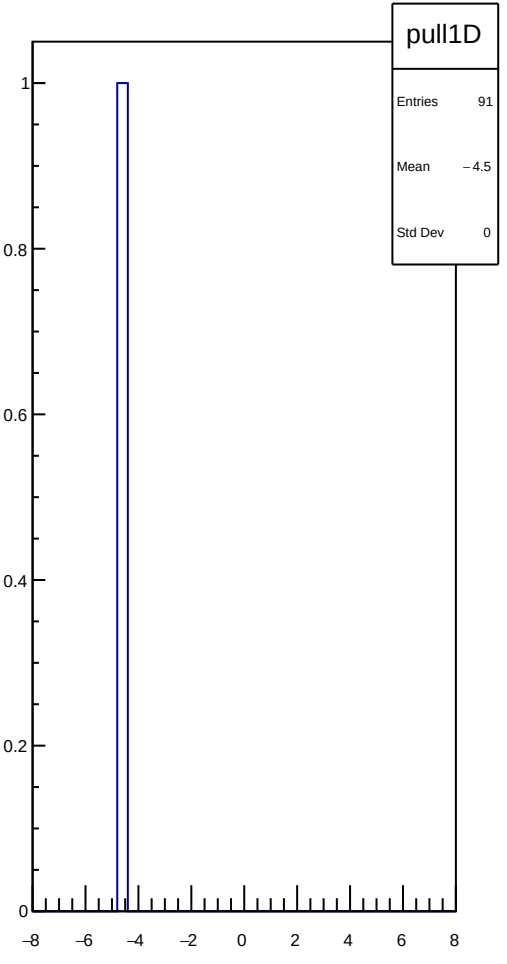

yield_bpm16X_rms vs run
χ² / ndf 2.062e+05 / 90
p0 0.0109 ± 8.827e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

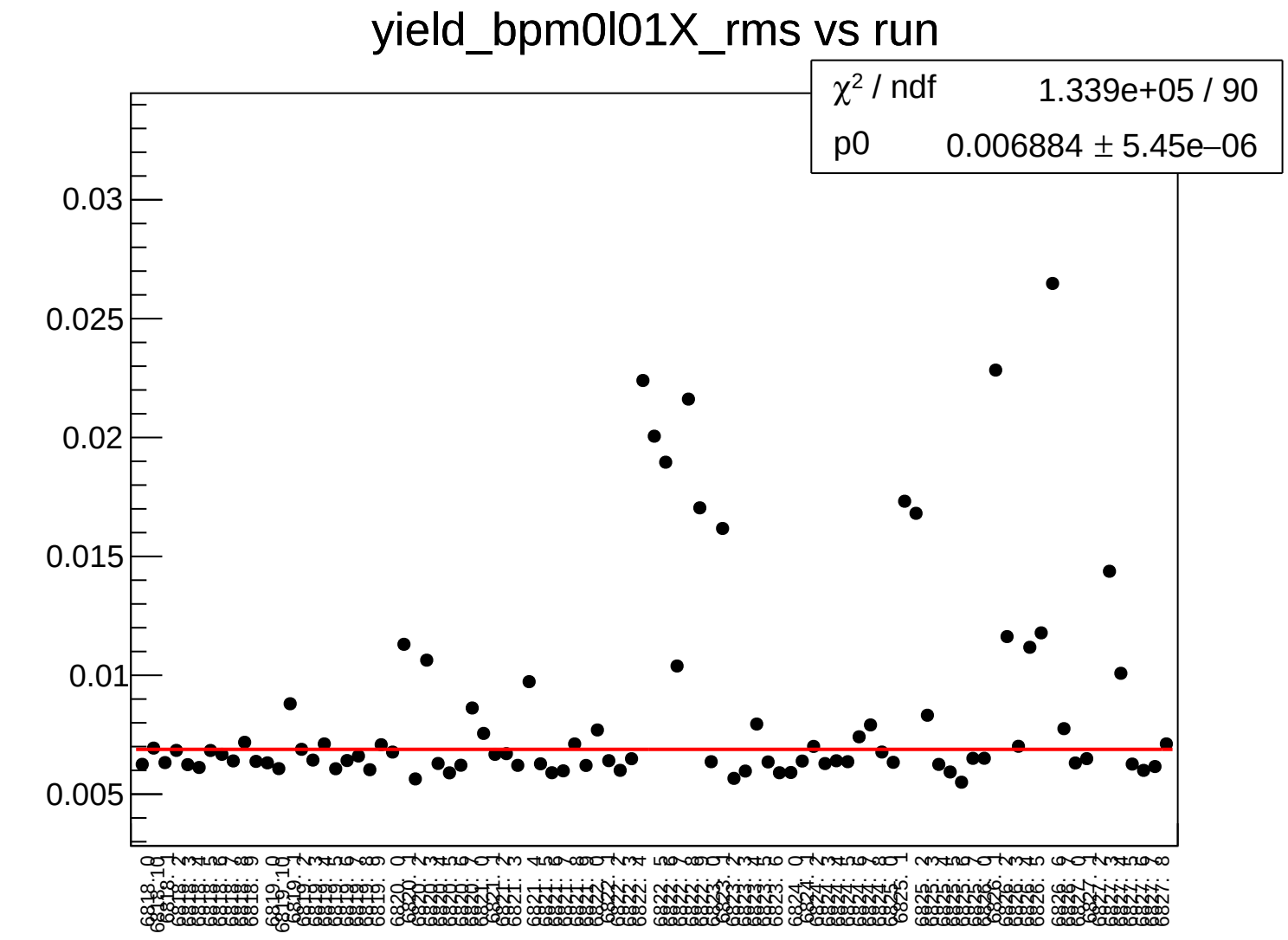

yield_bpm16Y_mean vs run
χ² / ndf 3.037e+04 / 90
p0 −0.2246 ± 5.158e−06
−0.222
−0.224
−0.226
−0.228
−0.23
pull
Entries 91
Mean 62.25
Std Dev 8.561
40
20
0
−20
−40
−60

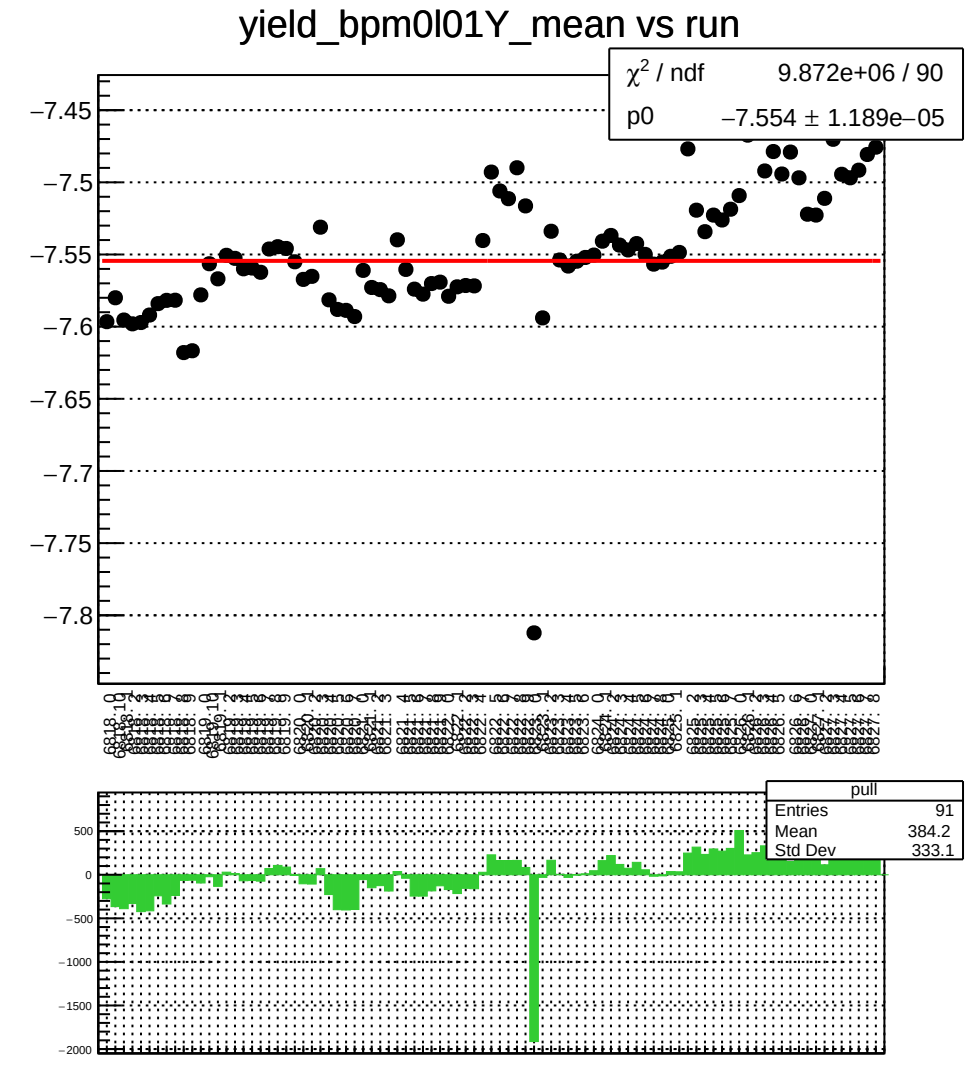

pull1D
Entries 91
Mean 2.377
Std Dev 4.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

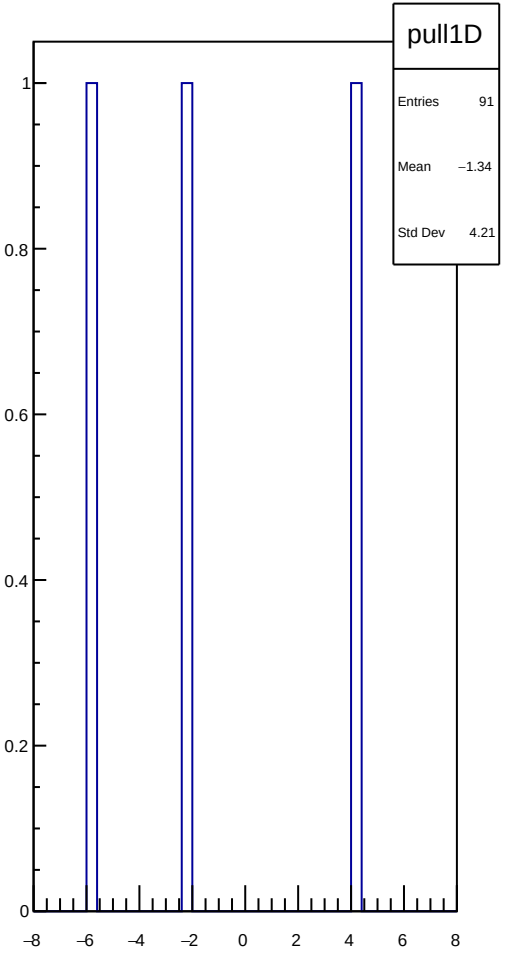

yield_bpm16Y_rms vs run
χ² / ndf 5.133e+04 / 90
p0 0.004725 ± 3.647e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

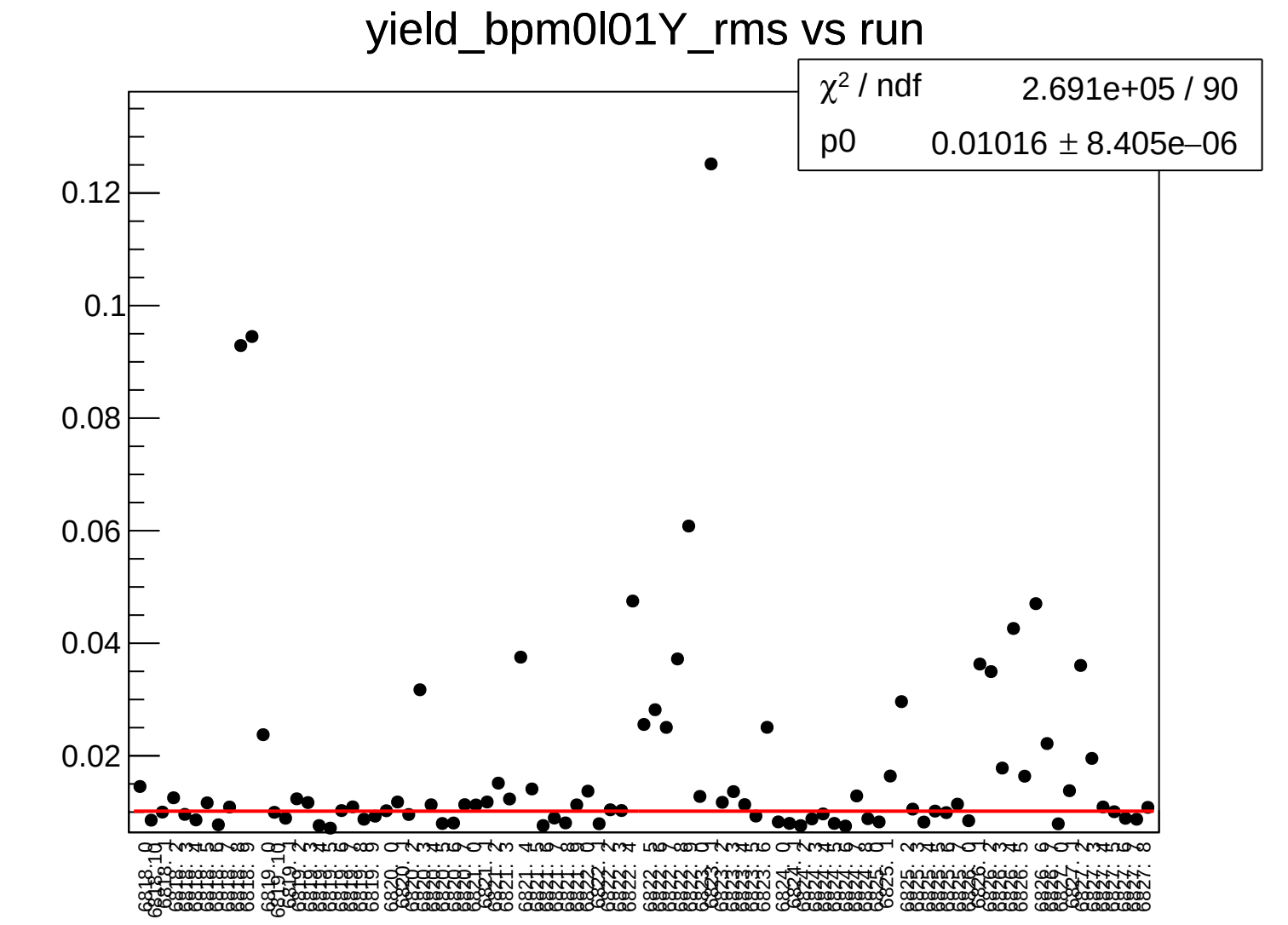

yield_bpm0l01X_mean vs run
χ² / ndf 1.523e+07 / 90
p0 −1.958 ± 7.707e−06
−1.84
−1.86
−1.88
−1.9
−1.92
−1.94
−1.96
−1.98
−2
−2.02
pull
Entries 91
Mean 695.3
Std Dev 654.9
1200
1000
800
600
400
200
0
−200
−400
−600
−800

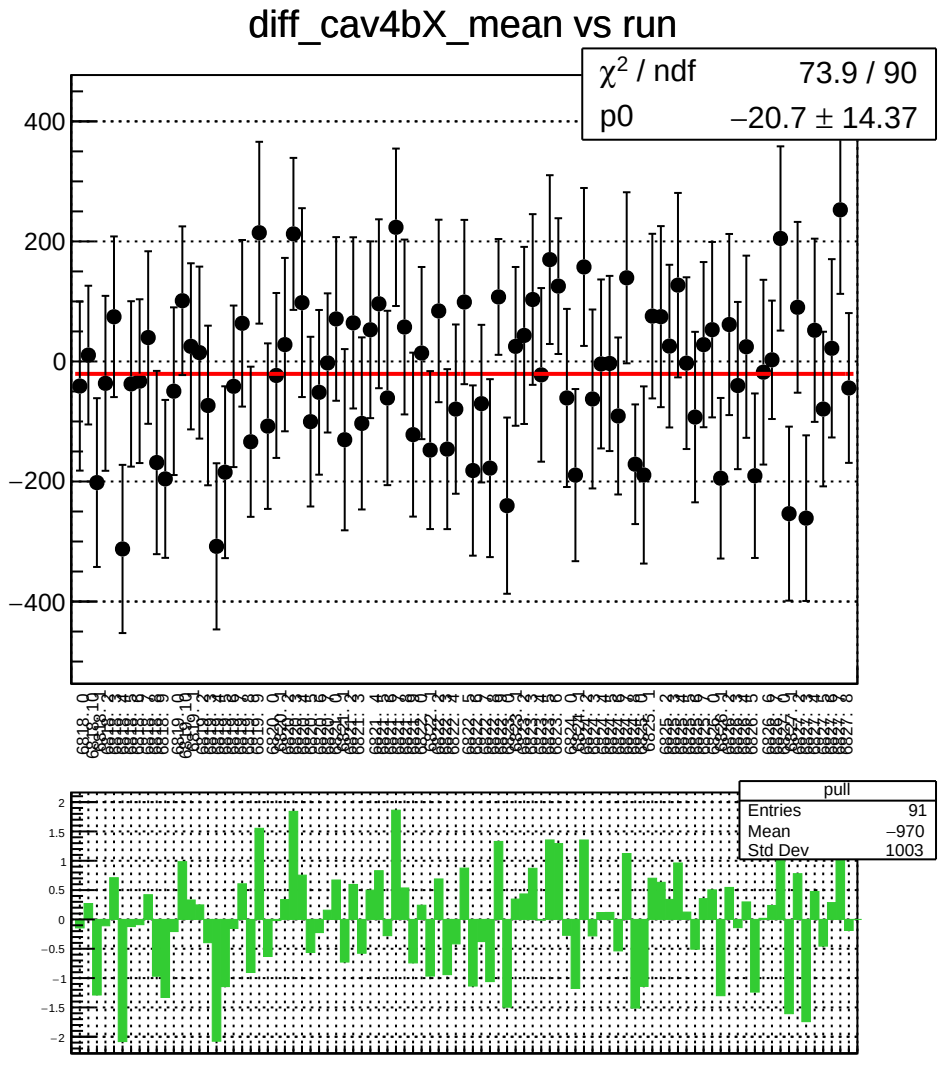

pull1D
Entries 91
Mean −4.5
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

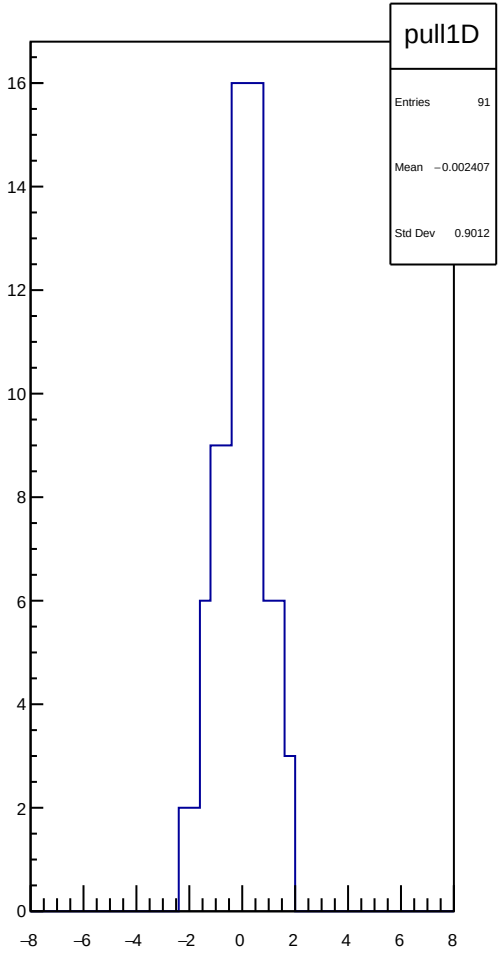

yield_bpm0l01X_rms vs run
χ² / ndf 1.339e+05 / 90
p0 0.006884 ± 5.45e–06
0.03
0.025
0.02
0.015
0.01
0.005

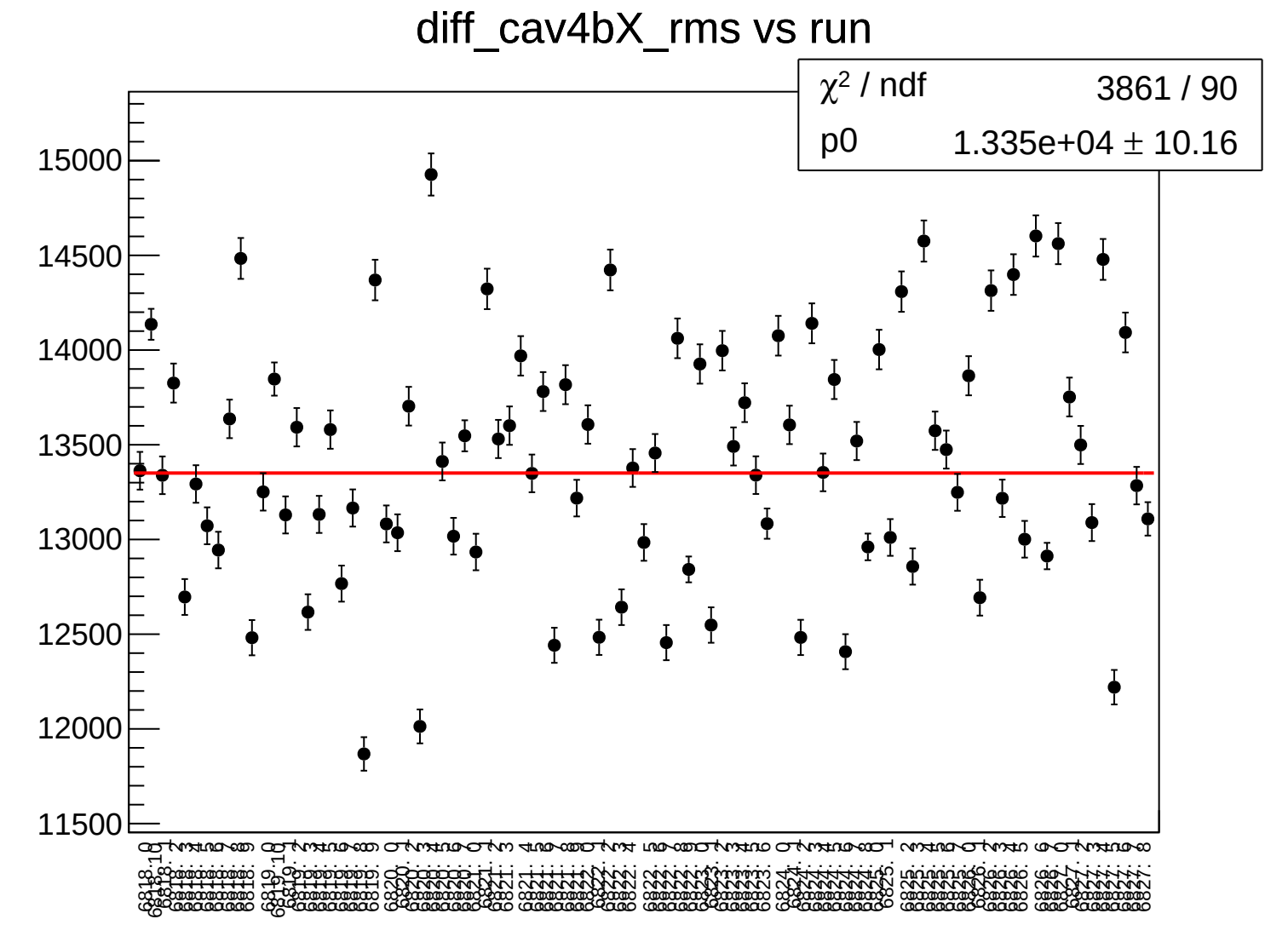

yield_bpm0l01Y_mean vs run
χ² / ndf 9.872e+06 / 90
p0 −7.554 ± 1.189e−05
−7.45
−7.5
−7.55
−7.6
−7.65
−7.7
−7.75
−7.8
pull
Entries 91
Mean 384.2
Std Dev 333.1
500
0
−500
−1000
−1500
−2000

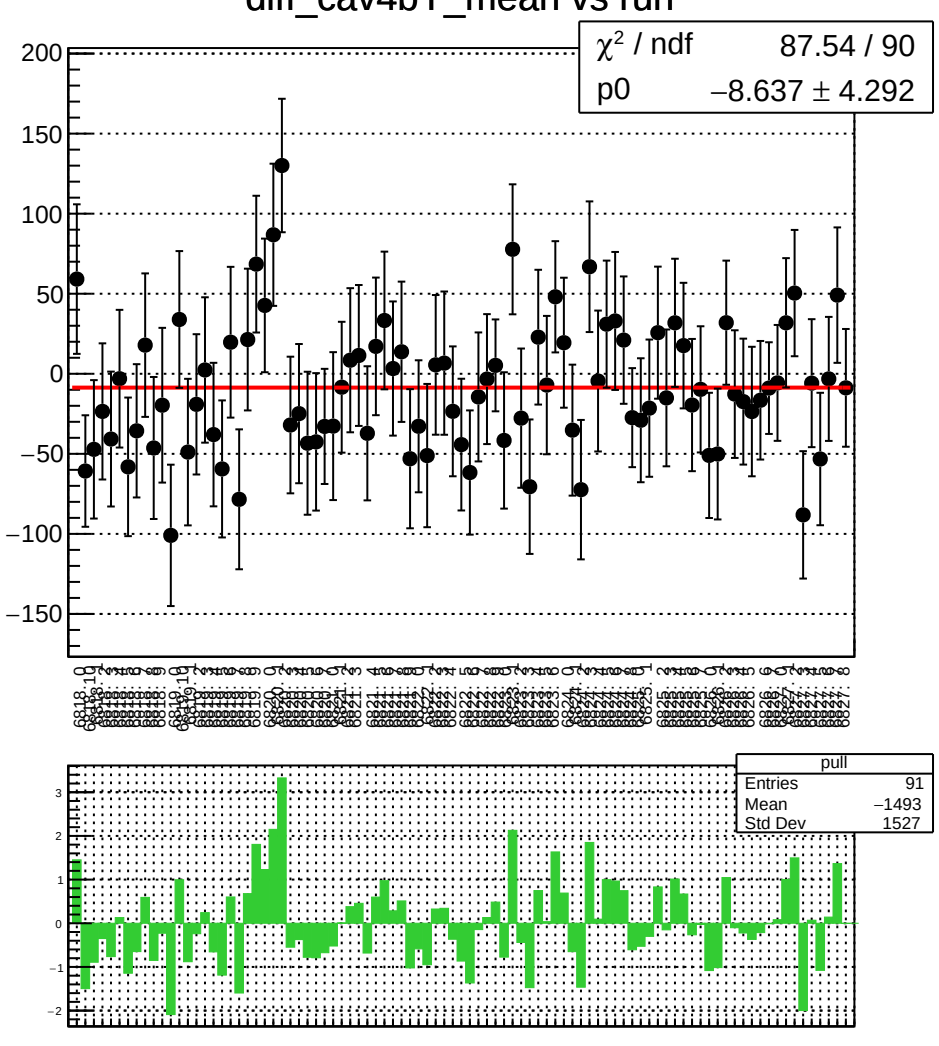

pull1D
Entries 91
Mean −1.34
Std Dev 4.21
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

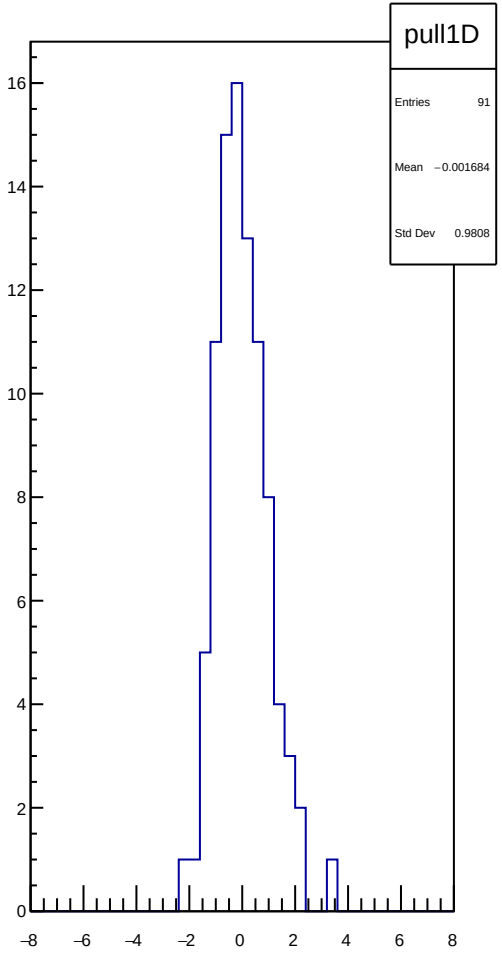

yield_bpm0l01Y_rms vs run
χ² / ndf 2.691e+05 / 90
p0 0.01016 ± 8.405e–06
0.12
0.1
0.08
0.06
0.04
0.02

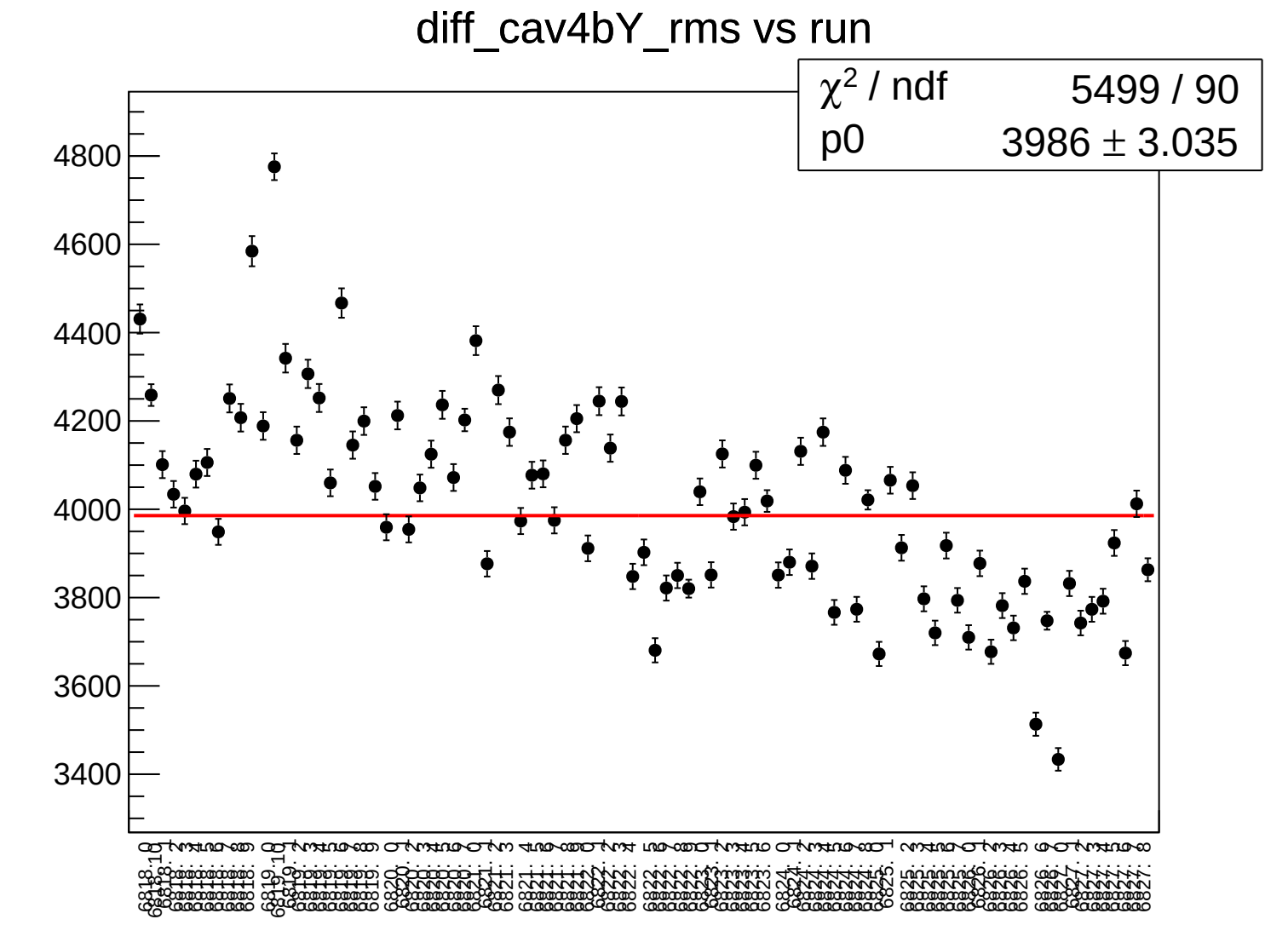

diff_cav4bX_mean vs run
χ^2 / ndf 73.9 / 90
p0 −20.7 ± 14.37
400
200
0
−200
−400
pull
Entries 91
Mean −970
Std Dev 1003
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

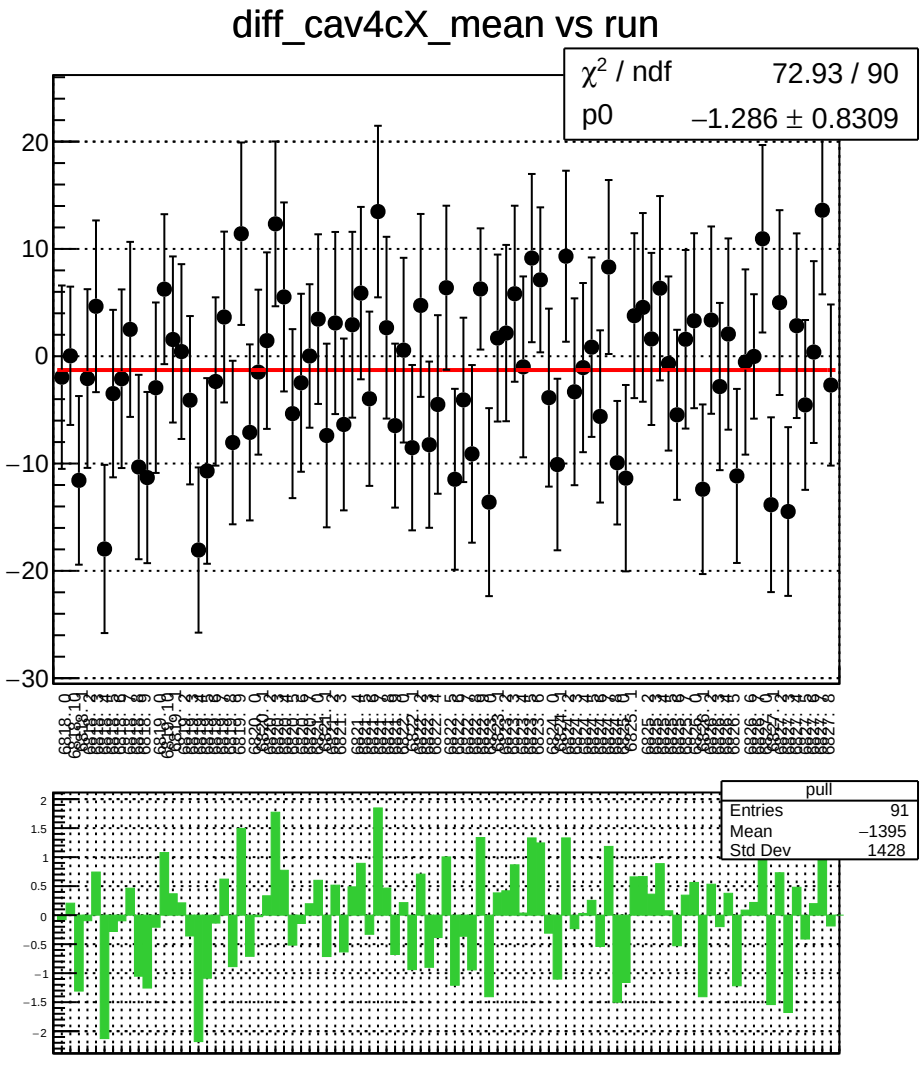

pull1D
Entries 91
Mean −0.002407
Std Dev 0.9012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

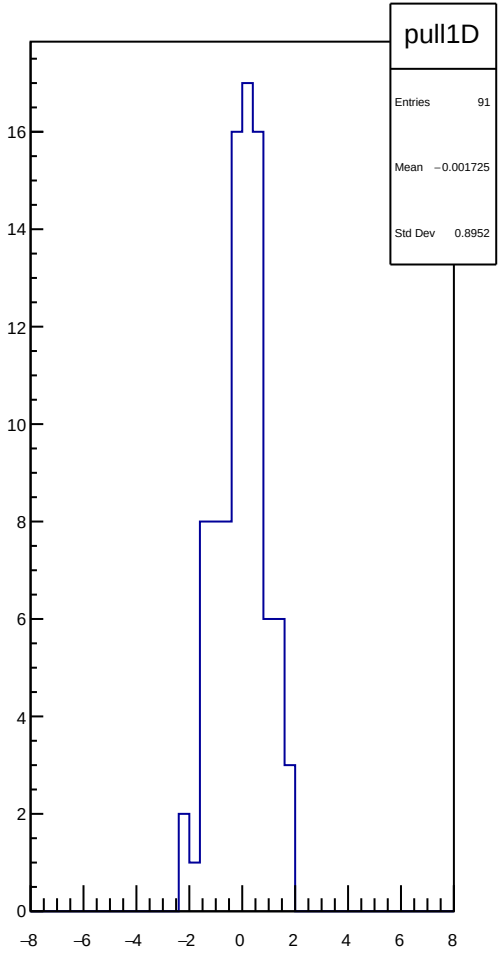

diff_cav4bX_rms vs run
χ² / ndf 3861 / 90
p0 1.335e+04 ± 10.16
15000
14500
14000
13500
13000
12500
12000
11500

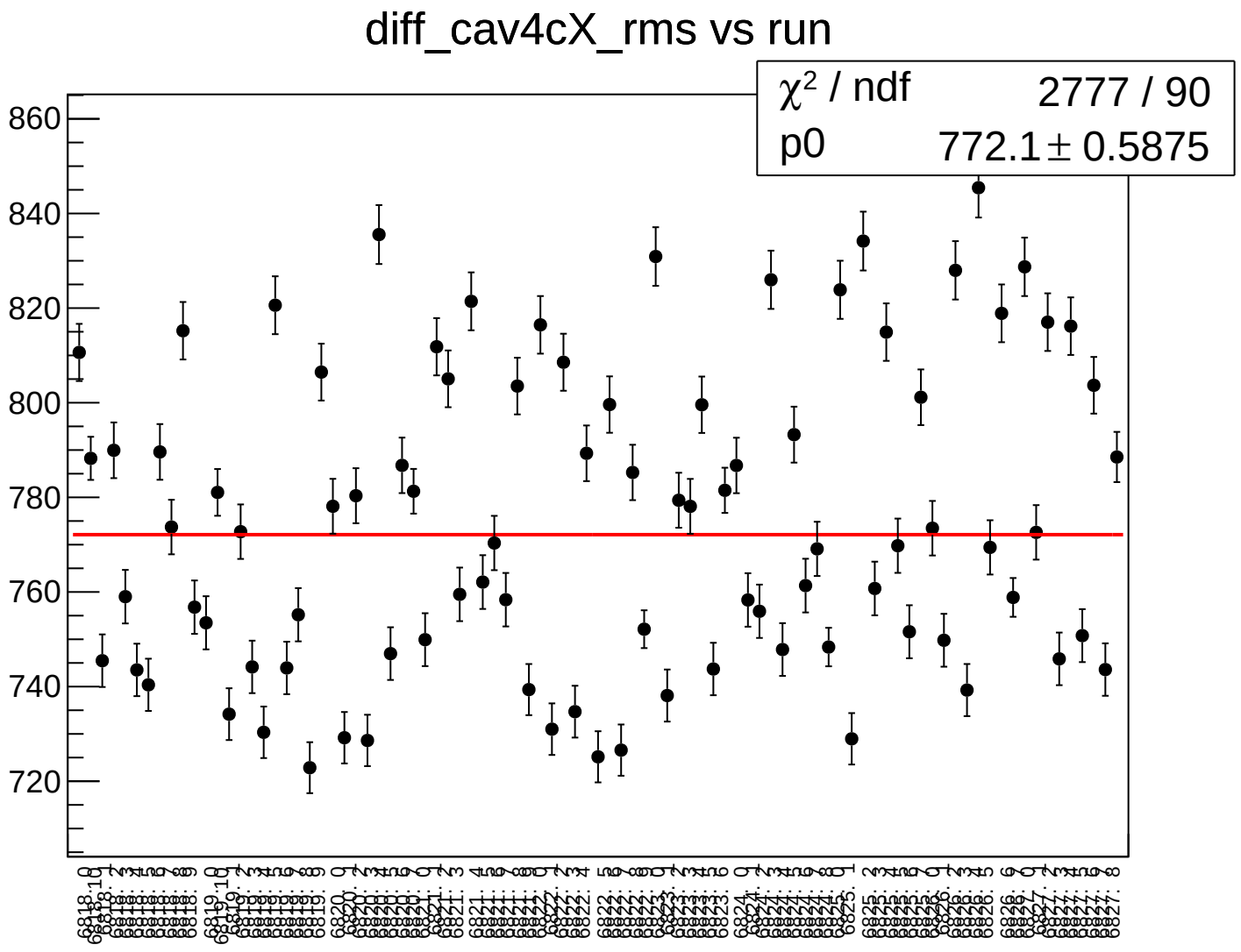

diff_cav4bY_mean vs run
χ² / ndf 87.54 / 90
p0 −8.637 ± 4.292
pull
Entries 91
Mean −1493
Std Dev 1527

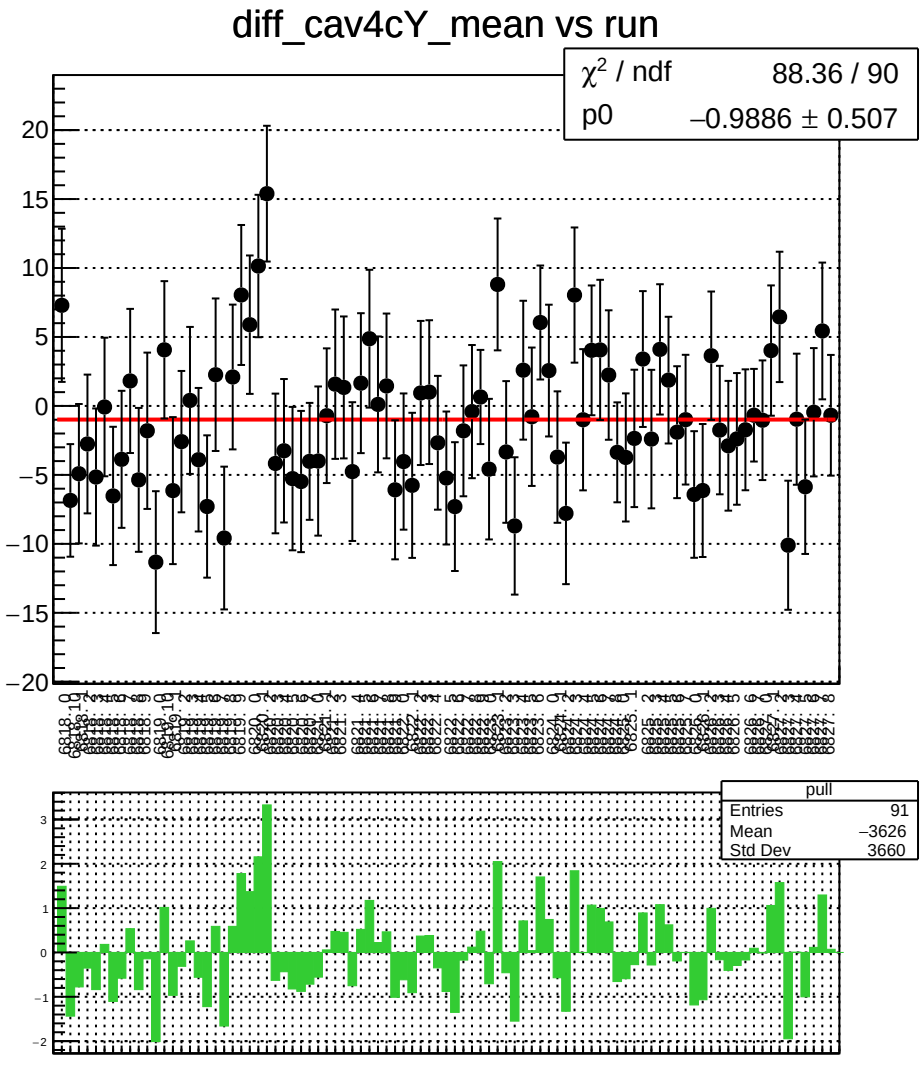

pull1D
Entries 91
Mean −0.001684
Std Dev 0.9808

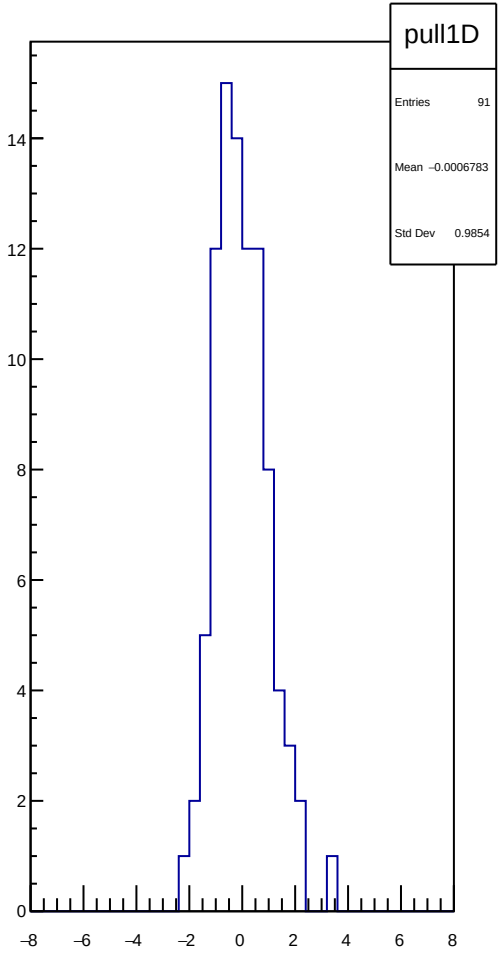

diff_cav4bY_rms vs run
χ² / ndf 5499 / 90
p0 3986 ± 3.035
4800
4600
4400
4200
4000
3800
3600
3400

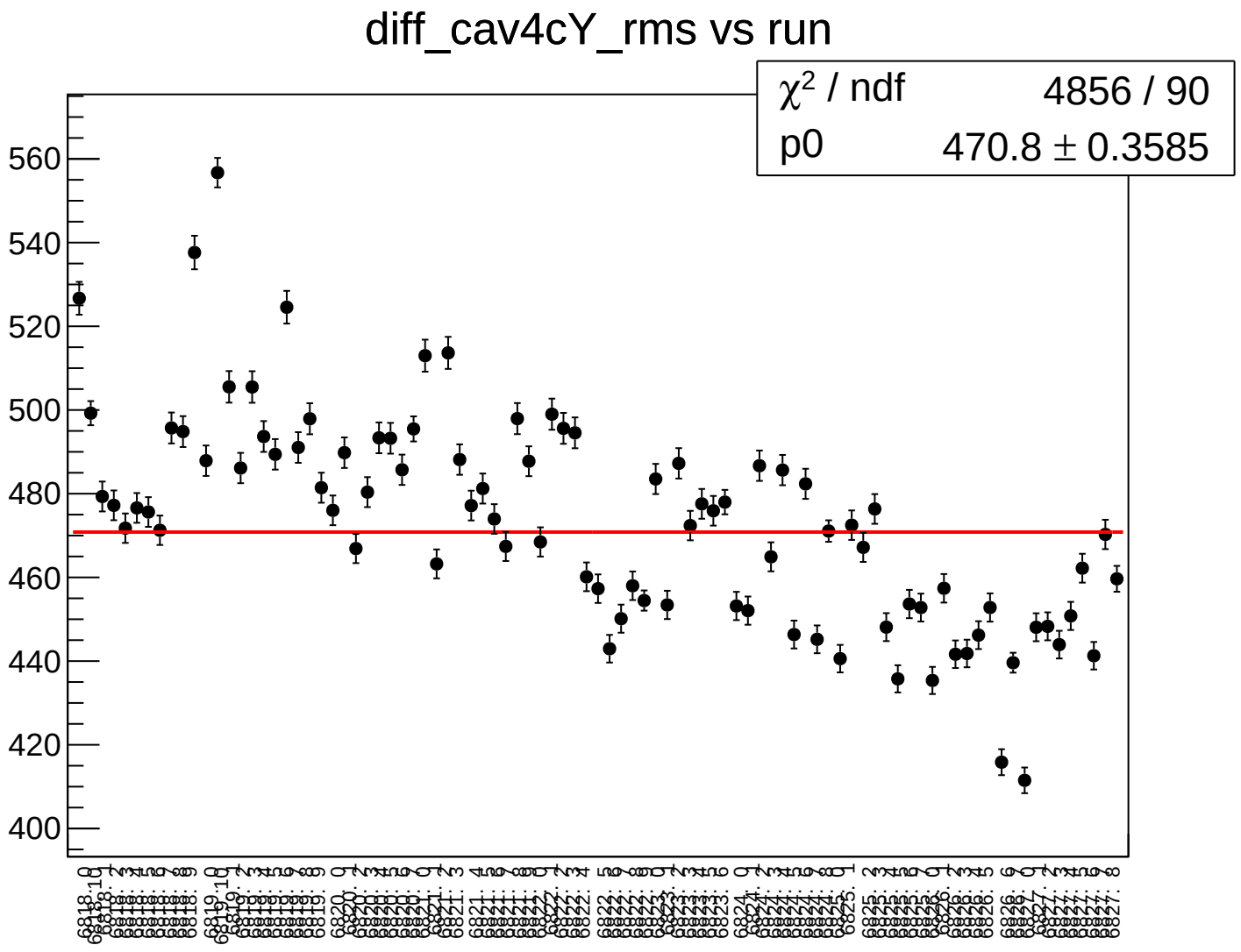

diff_cav4cX_mean vs run
χ² / ndf 72.93 / 90
p0 −1.286 ± 0.8309
pull
Entries 91
Mean −1395
Std Dev 1428

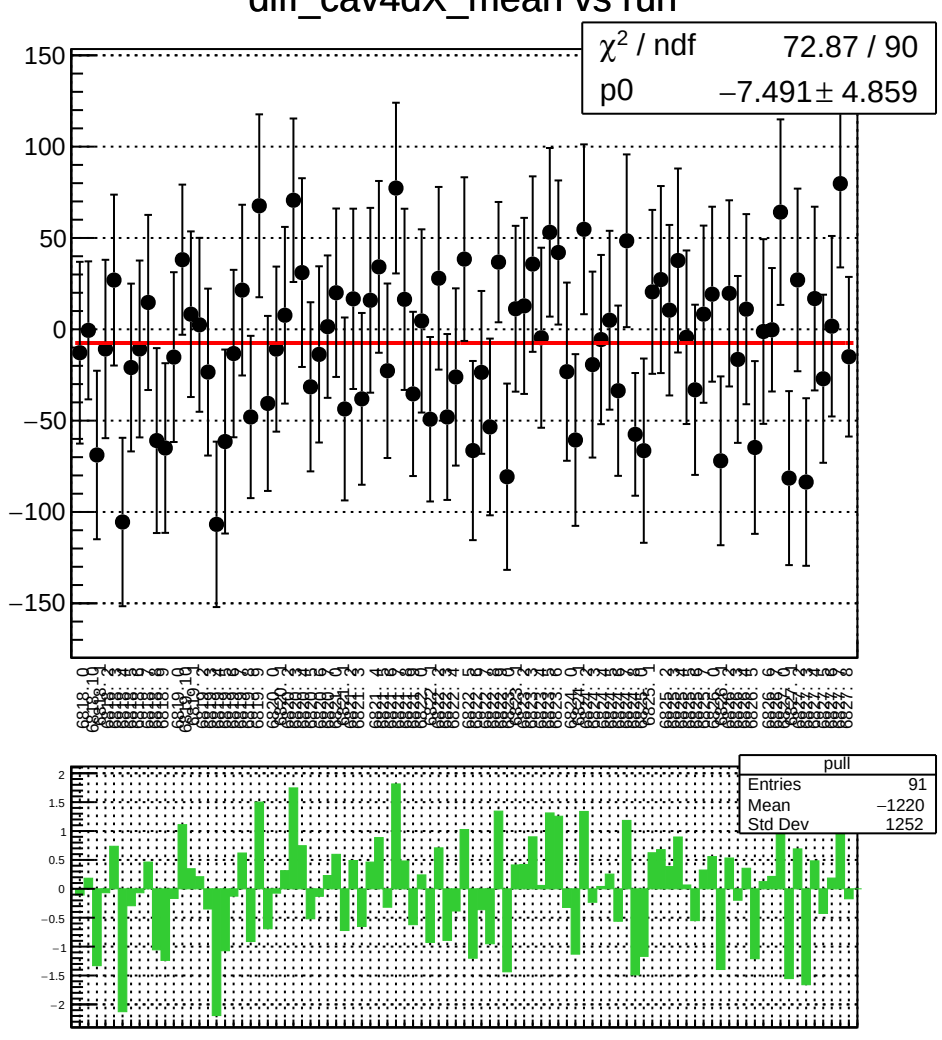

pull1D
Entries 91
Mean −0.001725
Std Dev 0.8952

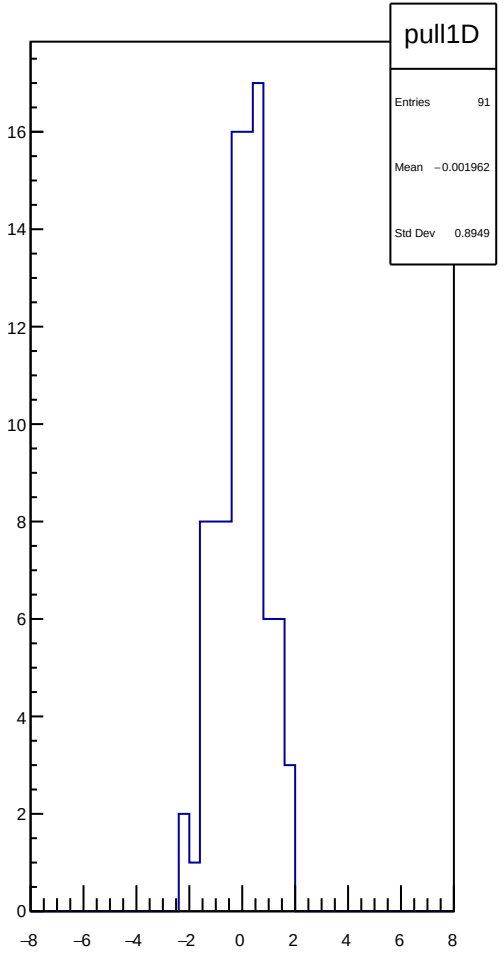

diff_cav4cX_rms vs run
χ² / ndf 2777 / 90
p0 772.1 ± 0.5875
860
840
820
800
780
760
740
720

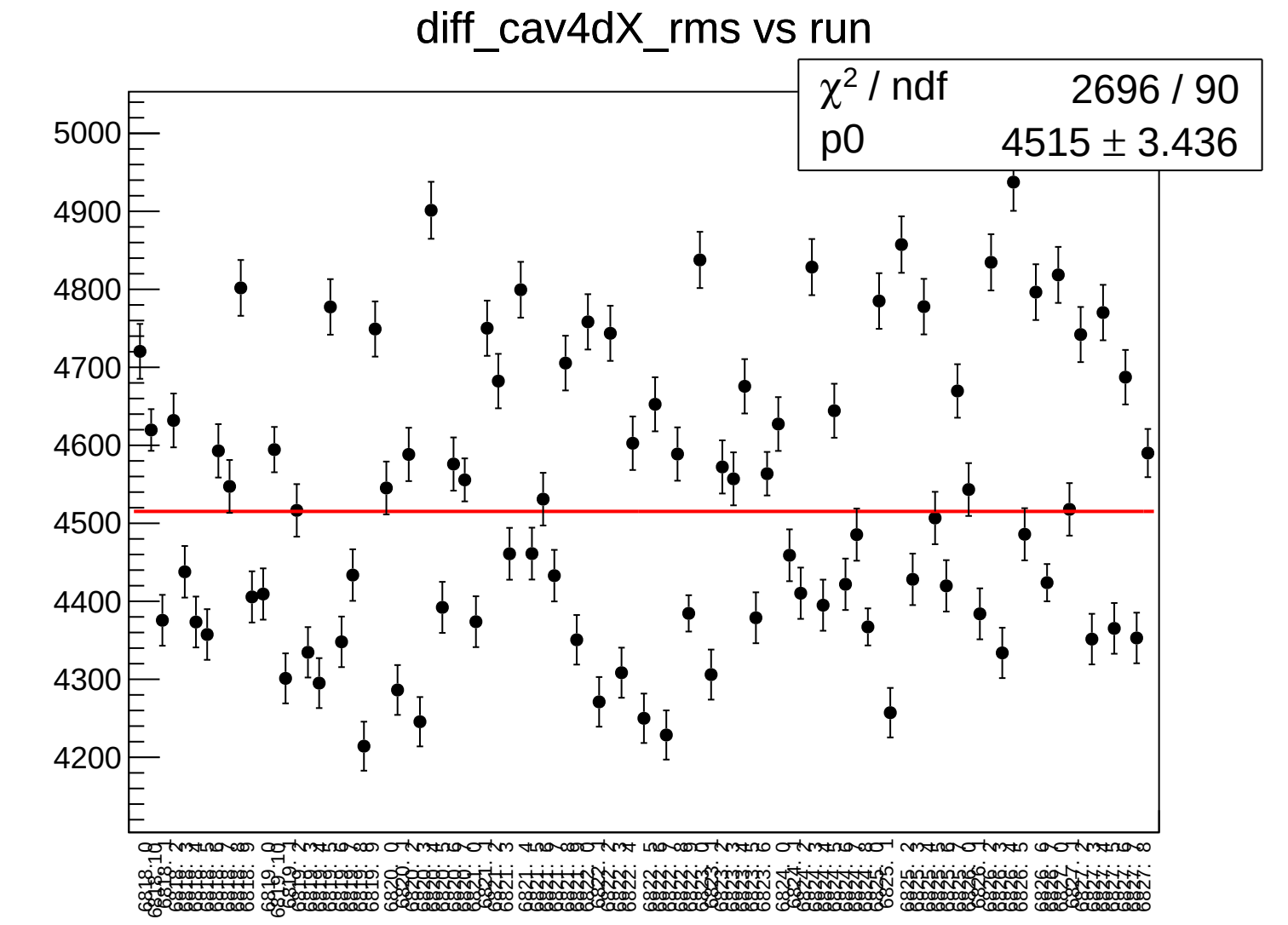

diff_cav4cY_mean vs run
χ² / ndf 88.36 / 90
p0 −0.9886 ± 0.507
pull
Entries 91
Mean −3626
Std Dev 3660

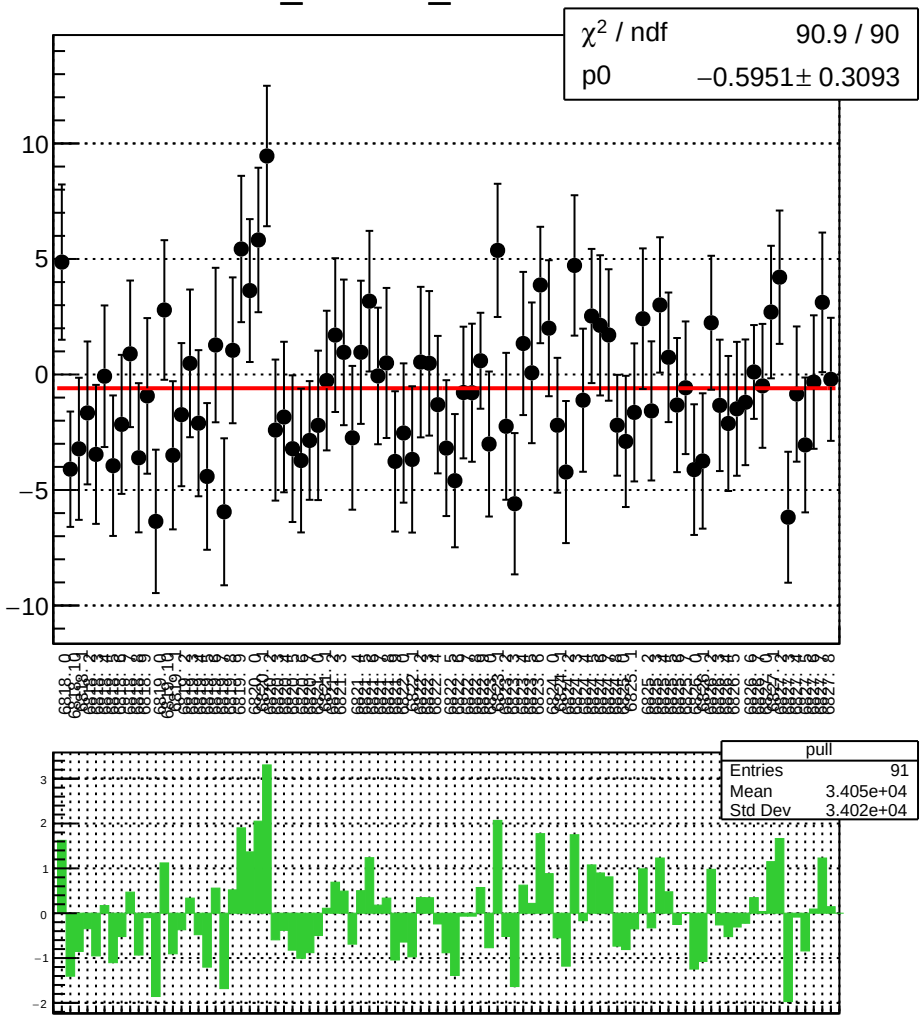

pull1D
Entries 91
Mean −0.0006783
Std Dev 0.9854

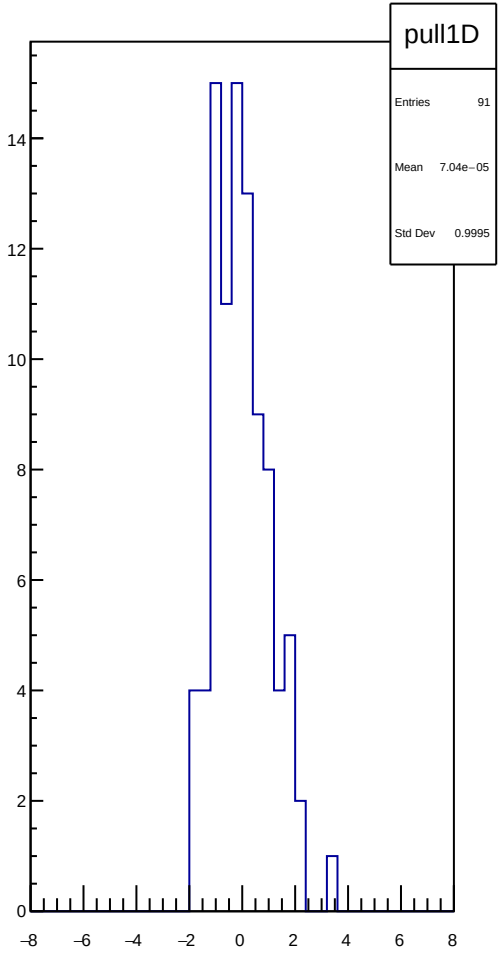

diff_cav4cY_rms vs run
χ² / ndf 4856 / 90
p0 470.8 ± 0.3585
560
540
520
500
480
460
440
420
400

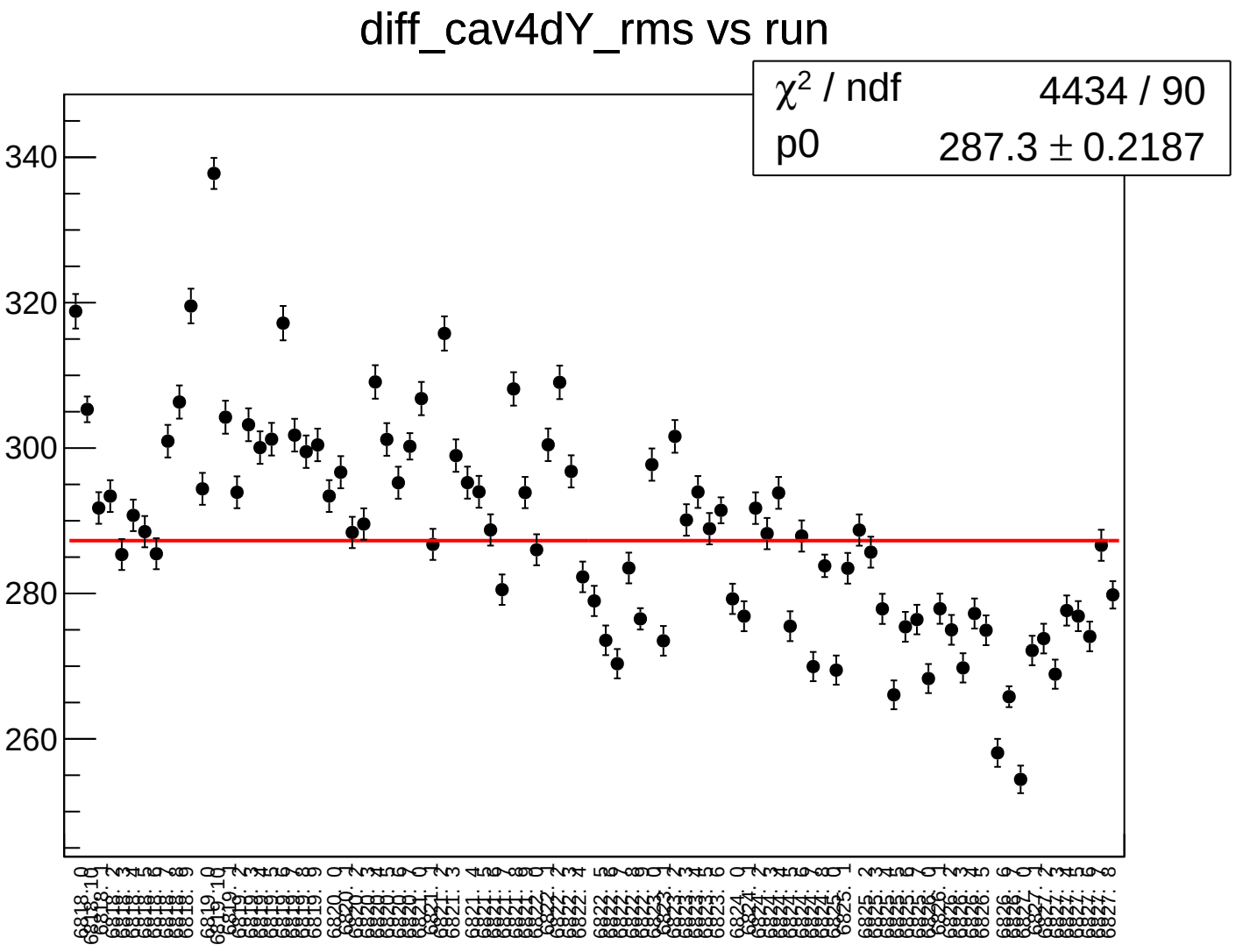

diff_cav4dX_mean vs run
χ² / ndf 72.87 / 90
p0 −7.491 ± 4.859
pull
Entries 91
Mean −1220
Std Dev 1252

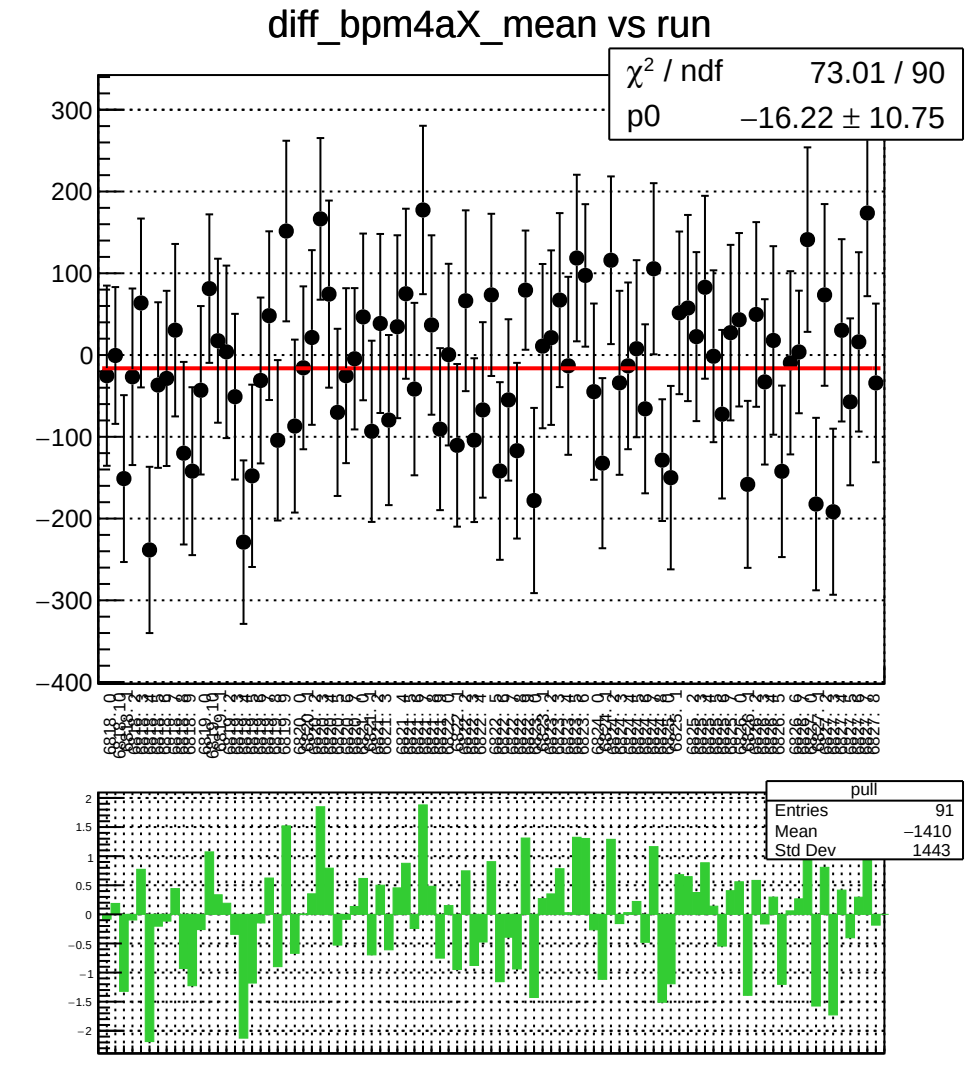

pull1D
Entries 91
Mean −0.001962
Std Dev 0.8949

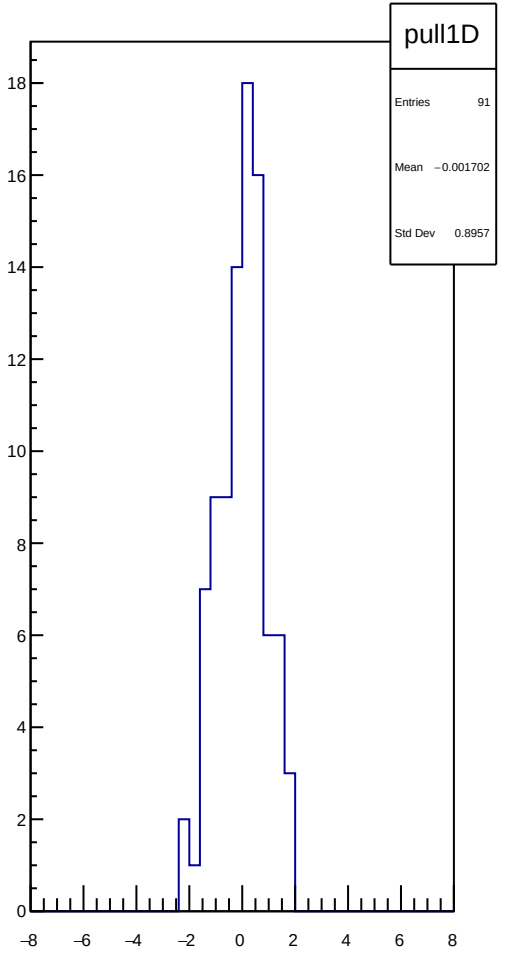

diff_cav4dX_rms vs run
χ² / ndf 2696 / 90
p0 4515 ± 3.436
5000
4900
4800
4700
4600
4500
4400
4300
4200

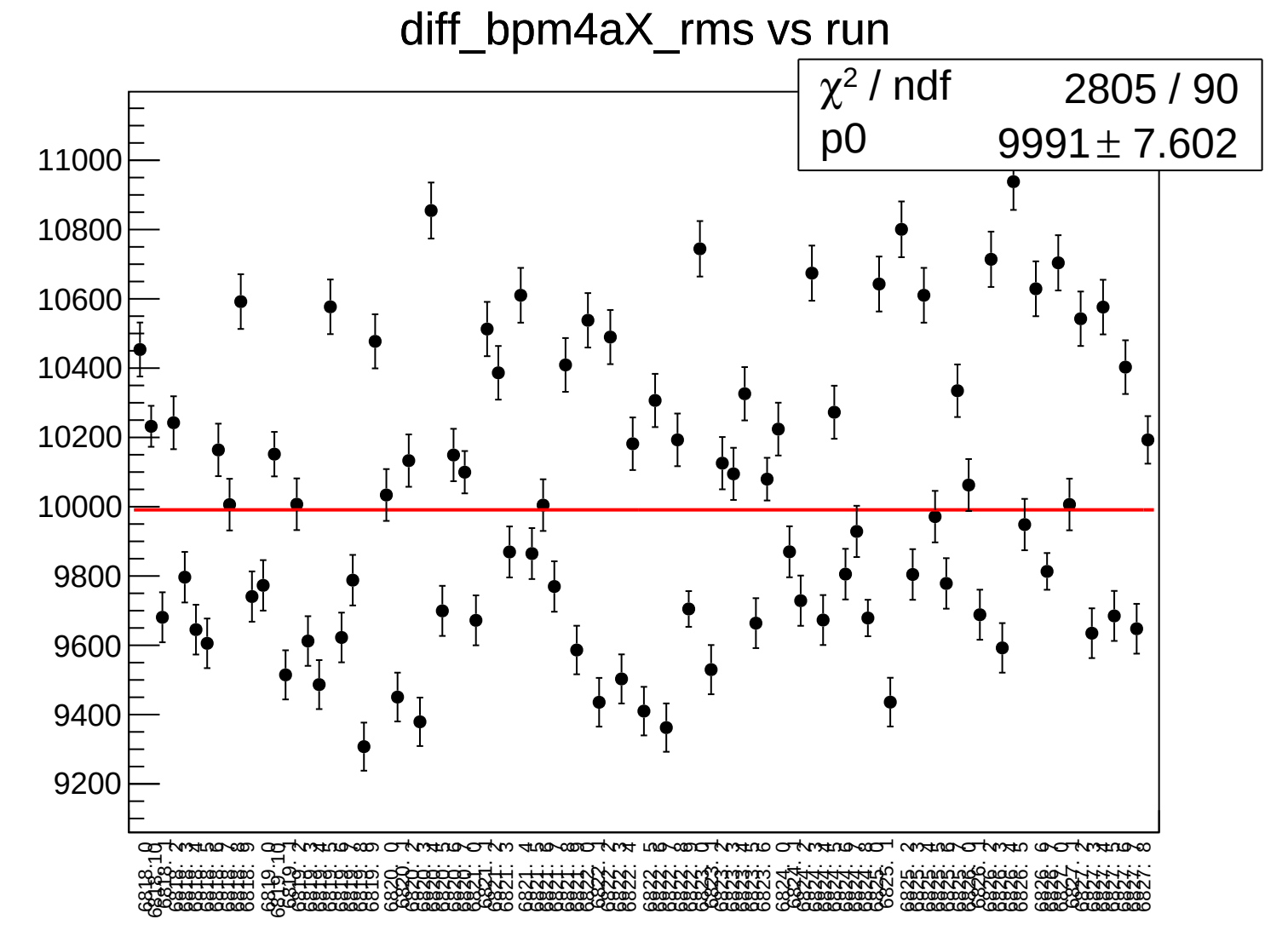

diff_cav4dY_mean vs run
χ² / ndf 90.9 / 90
p0 −0.5951± 0.3093
pull
Entries 91
Mean 3.405e+04
Std Dev 3.402e+04

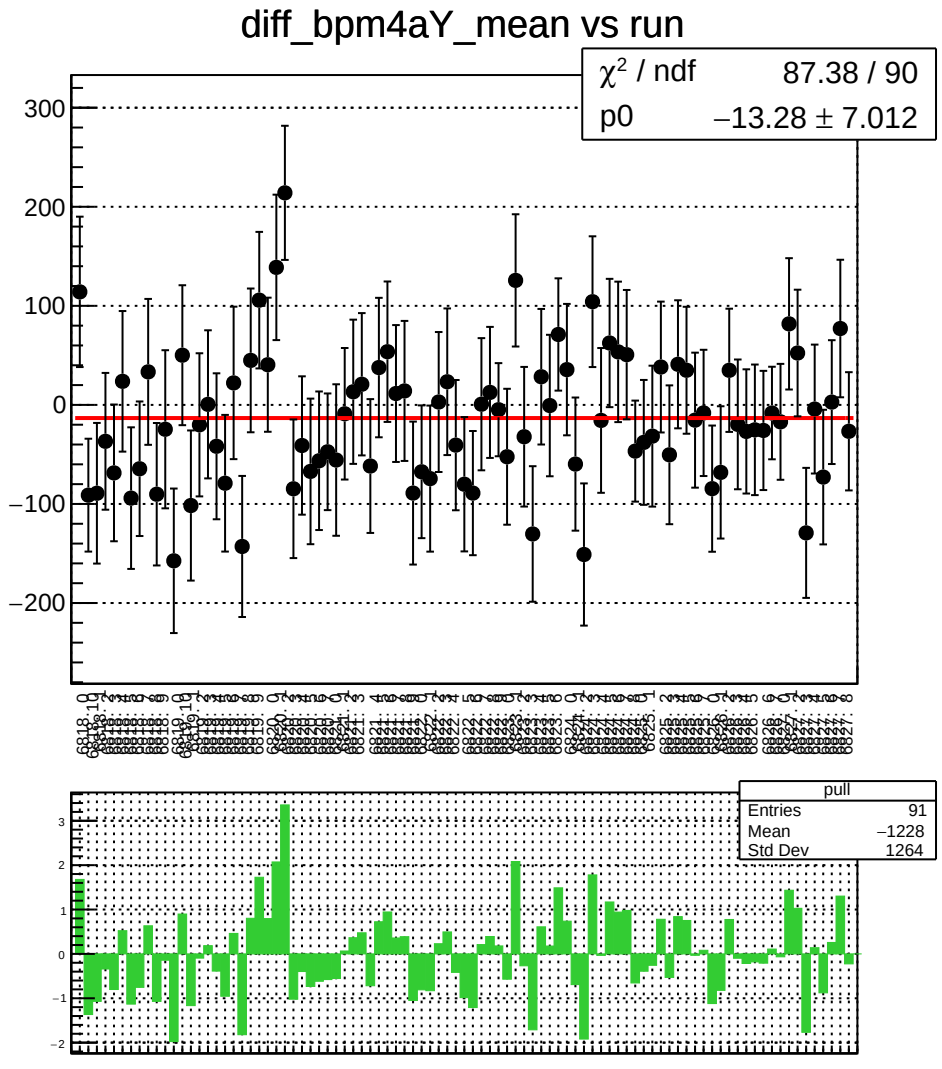

pull1D
Entries 91
Mean 7.04e−05
Std Dev 0.9995

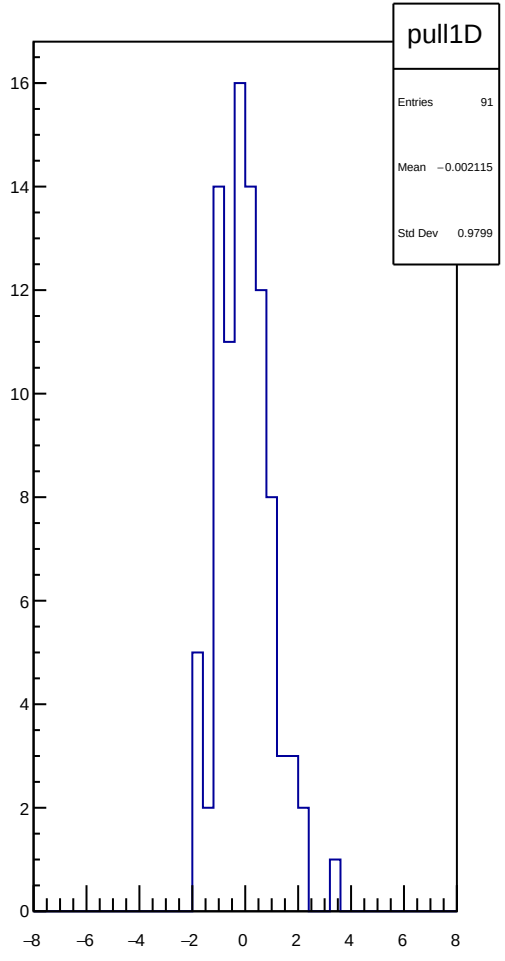

diff_cav4dY_rms vs run
χ² / ndf 4434 / 90
p0 287.3 ± 0.2187
340
320
300
280
260

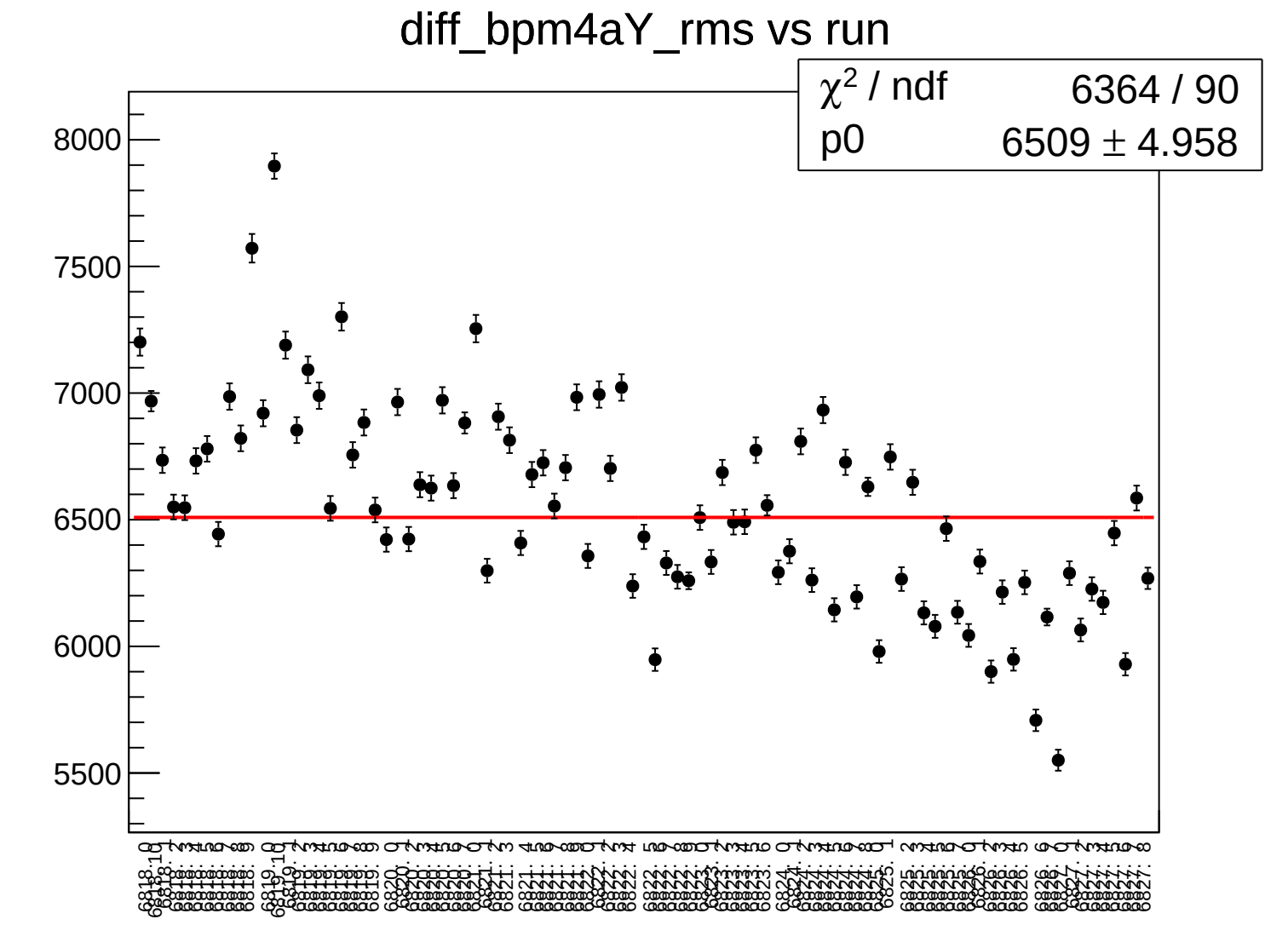

diff_bpm4aX_mean vs run
χ² / ndf 73.01 / 90
p0 −16.22 ± 10.75
pull
Entries 91
Mean −1410
Std Dev 1443

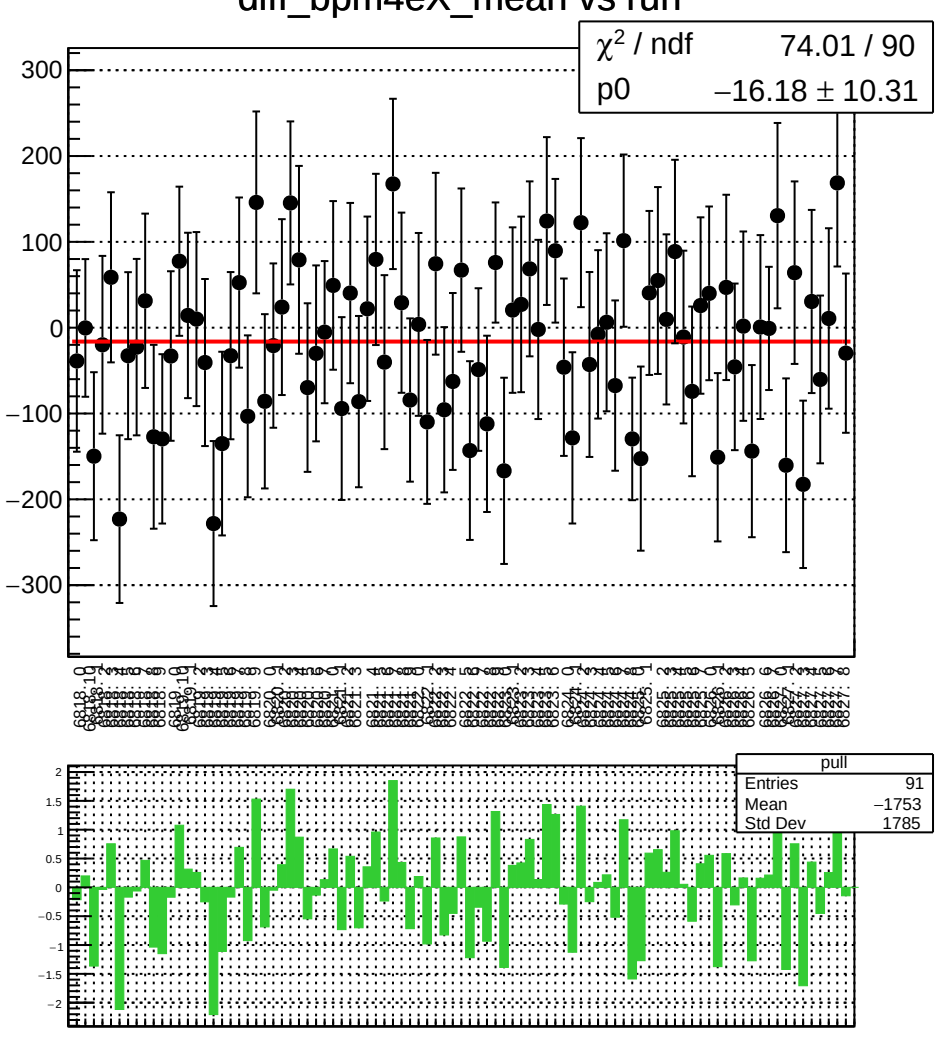

pull1D
Entries 91
Mean −0.001702
Std Dev 0.8957

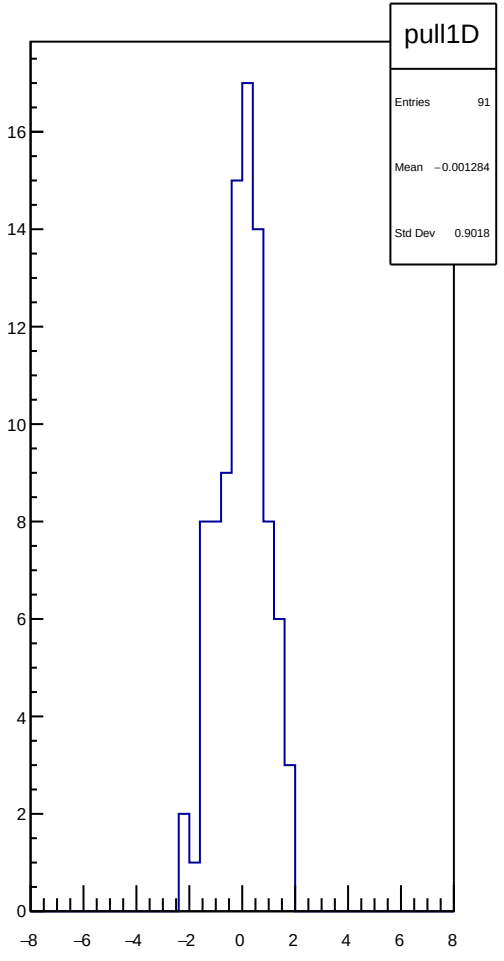

diff_bpm4aX_rms vs run
χ² / ndf 2805 / 90
p0 9991 ± 7.602
11000
10800
10600
10400
10200
10000
9800
9600
9400
9200

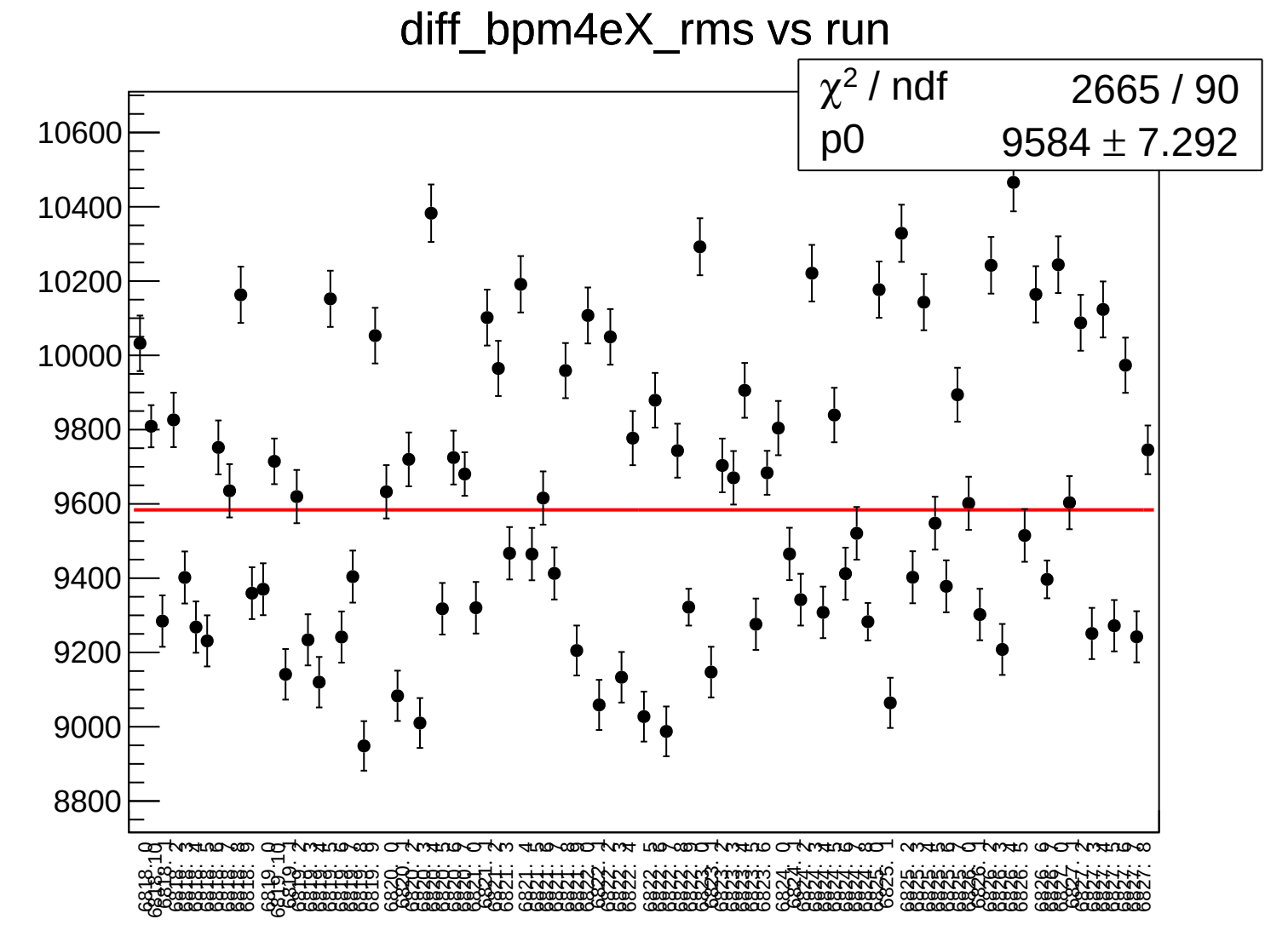

diff_bpm4aY_mean vs run
χ² / ndf 87.38 / 90
p0 −13.28 ± 7.012
300
200
100
0
−100
−200
pull
Entries 91
Mean −1228
Std Dev 1264
3
2
1
0
−1
−2

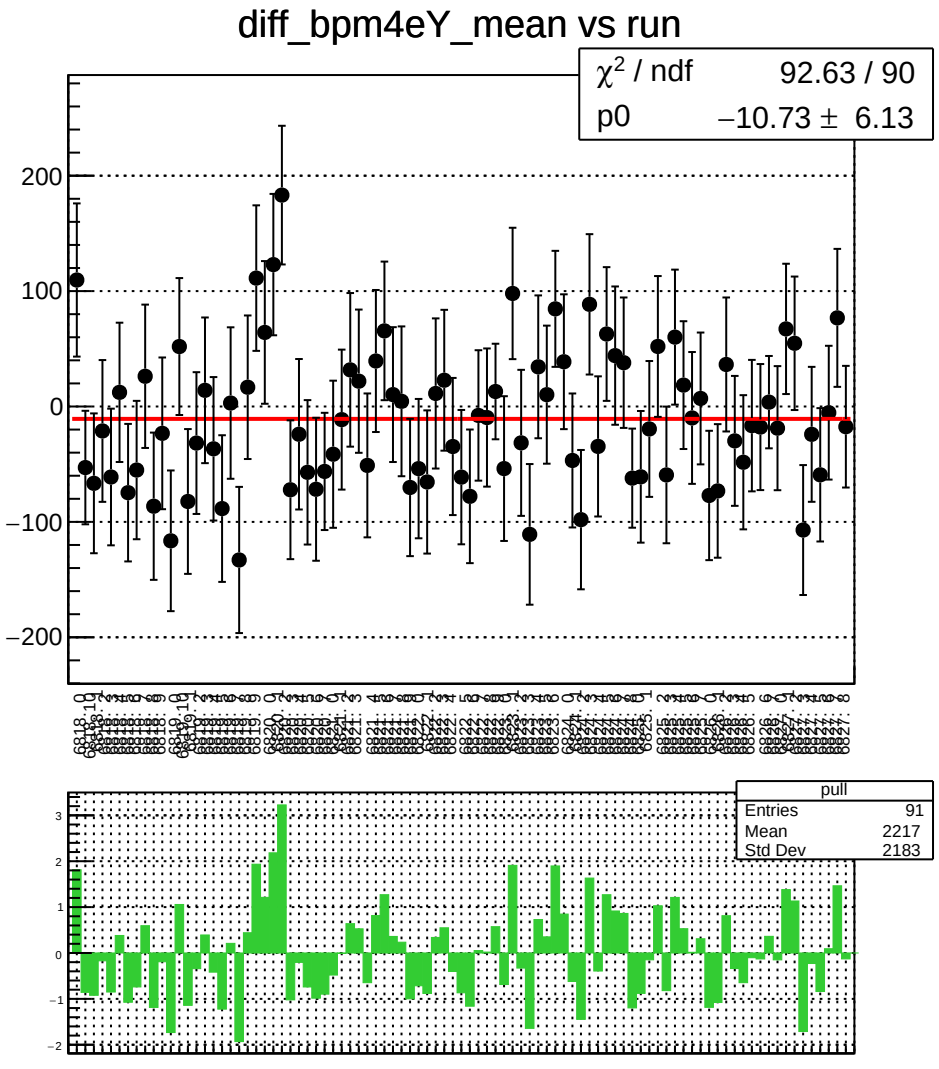

pull1D
Entries 91
Mean −0.002115
Std Dev 0.9799
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

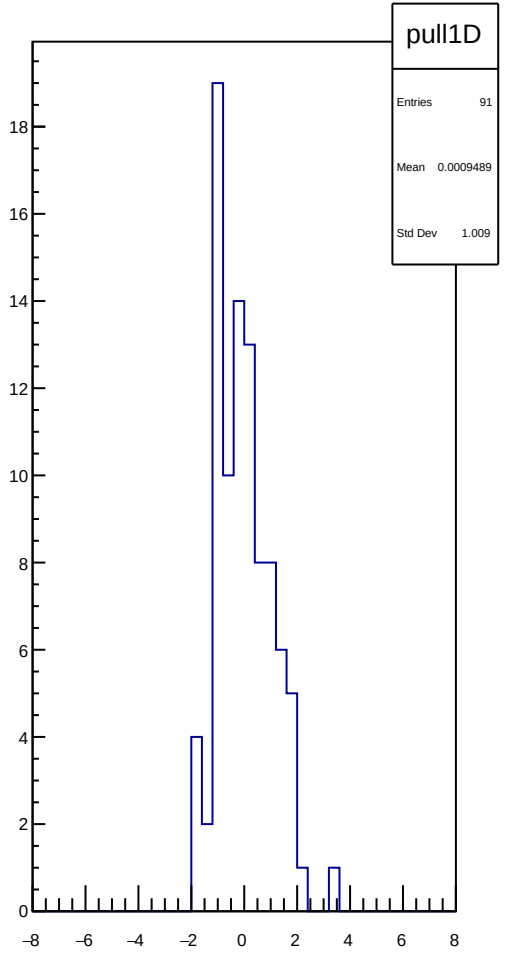

diff_bpm4aY_rms vs run
χ² / ndf 6364 / 90
p0 6509 ± 4.958
8000
7500
7000
6500
6000
5500

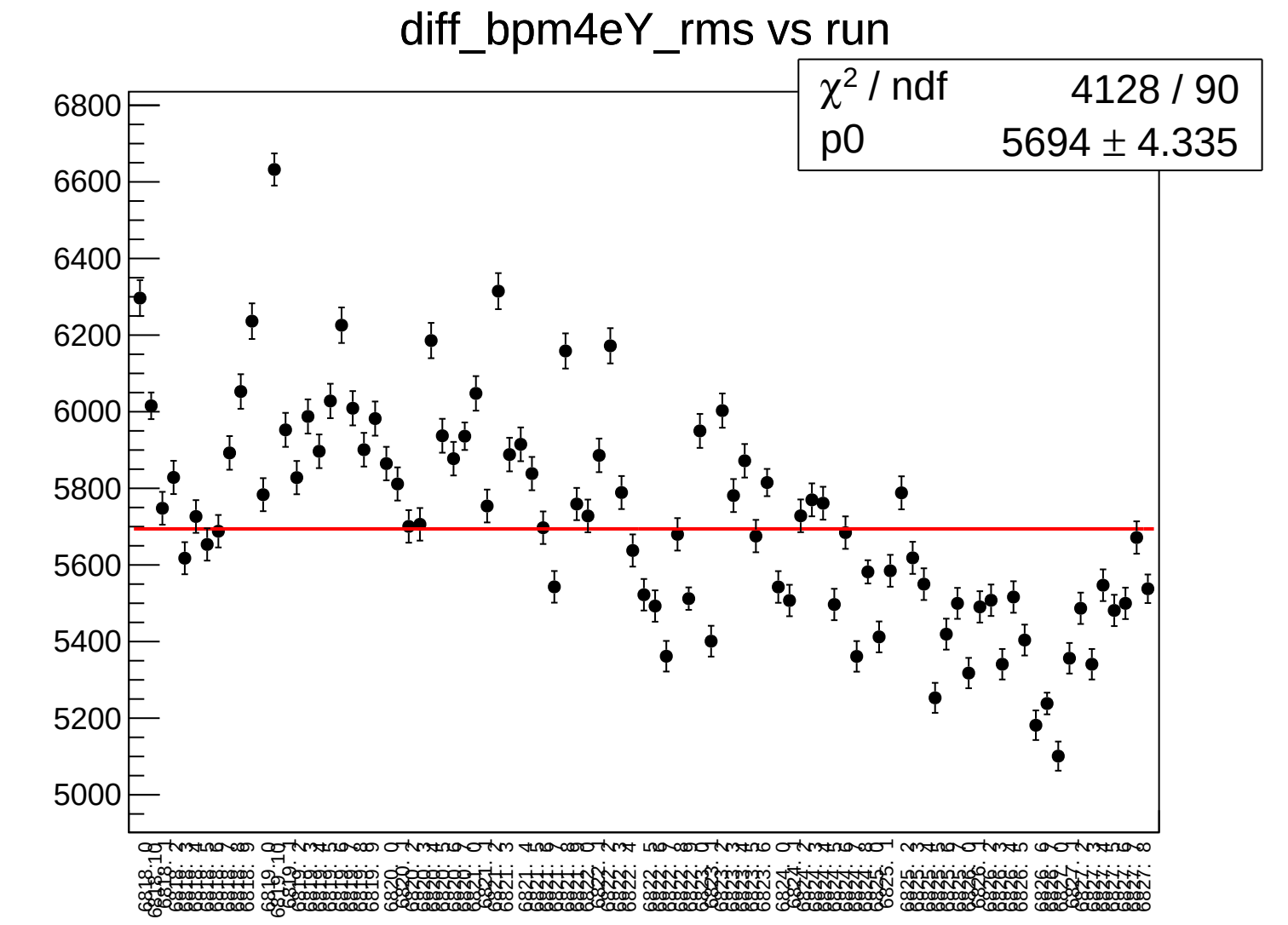

diff_bpm4eX_mean vs run
χ² / ndf 74.01 / 90
p0 −16.18 ± 10.31
pull
Entries 91
Mean −1753
Std Dev 1785

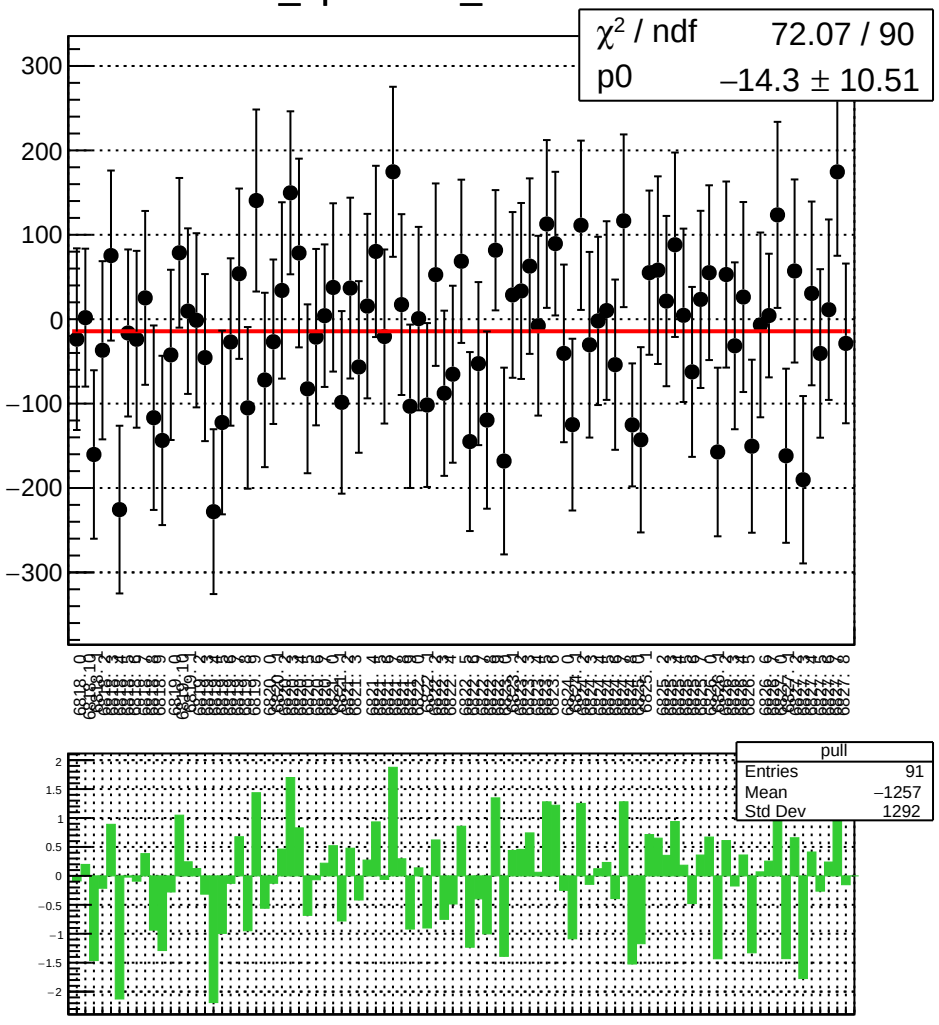

pull1D
Entries 91
Mean −0.001284
Std Dev 0.9018

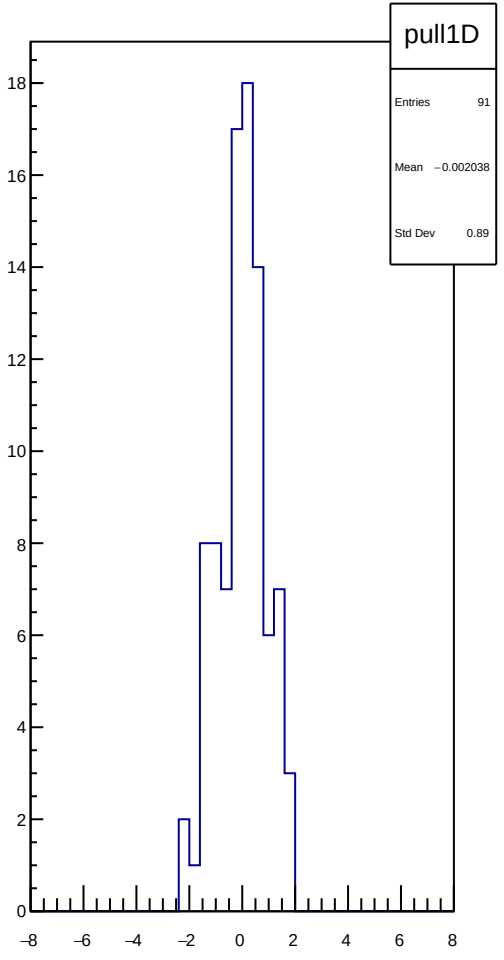

diff_bpm4eX_rms vs run
χ^2 / ndf 2665 / 90
p0 9584 ± 7.292
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800

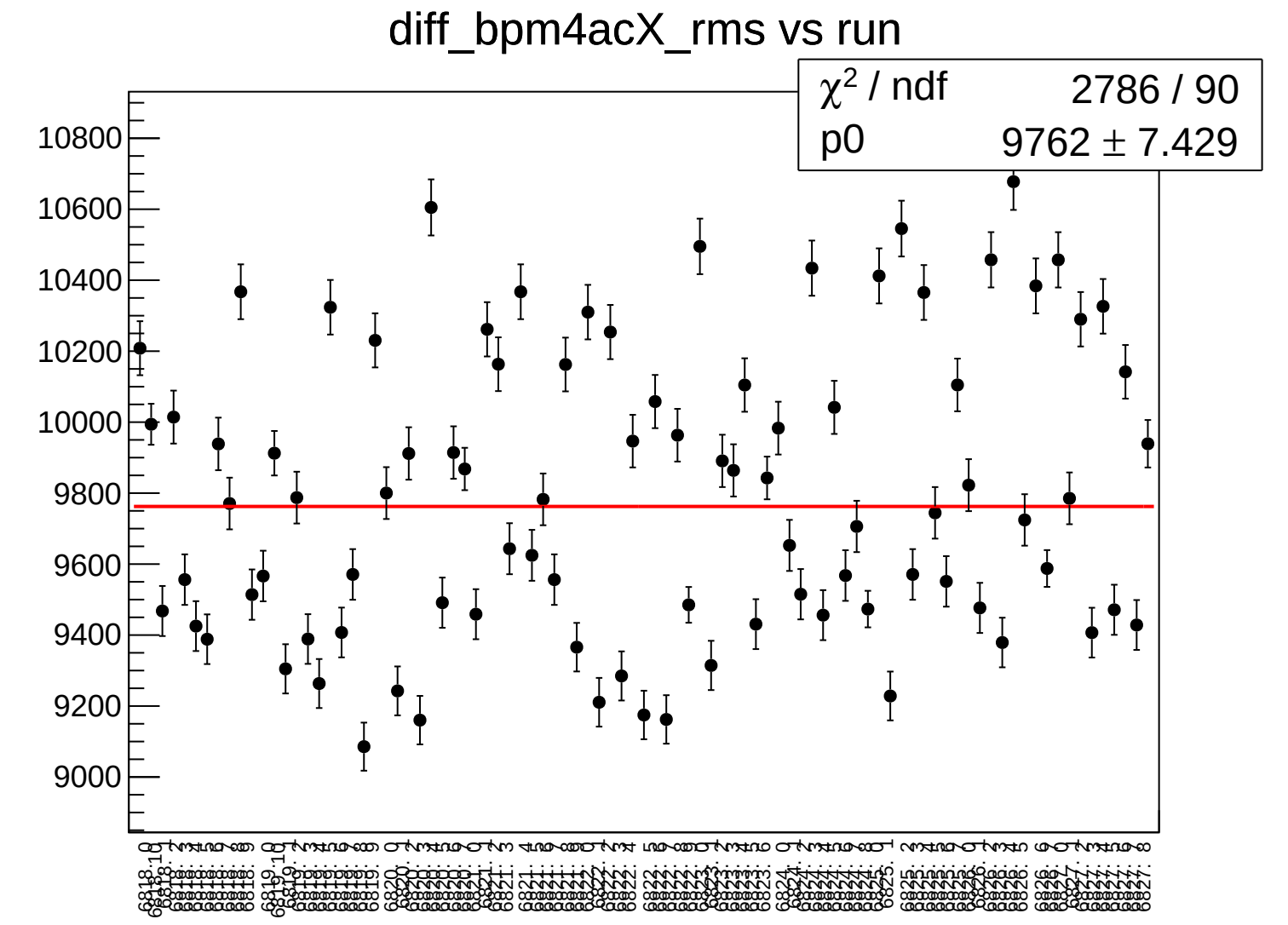

diff_bpm4eY_mean vs run
χ² / ndf 92.63 / 90
p0 −10.73 ± 6.13
200
100
0
−100
−200
pull
Entries 91
Mean 2217
Std Dev 2183
3
2
1
0
−1
−2

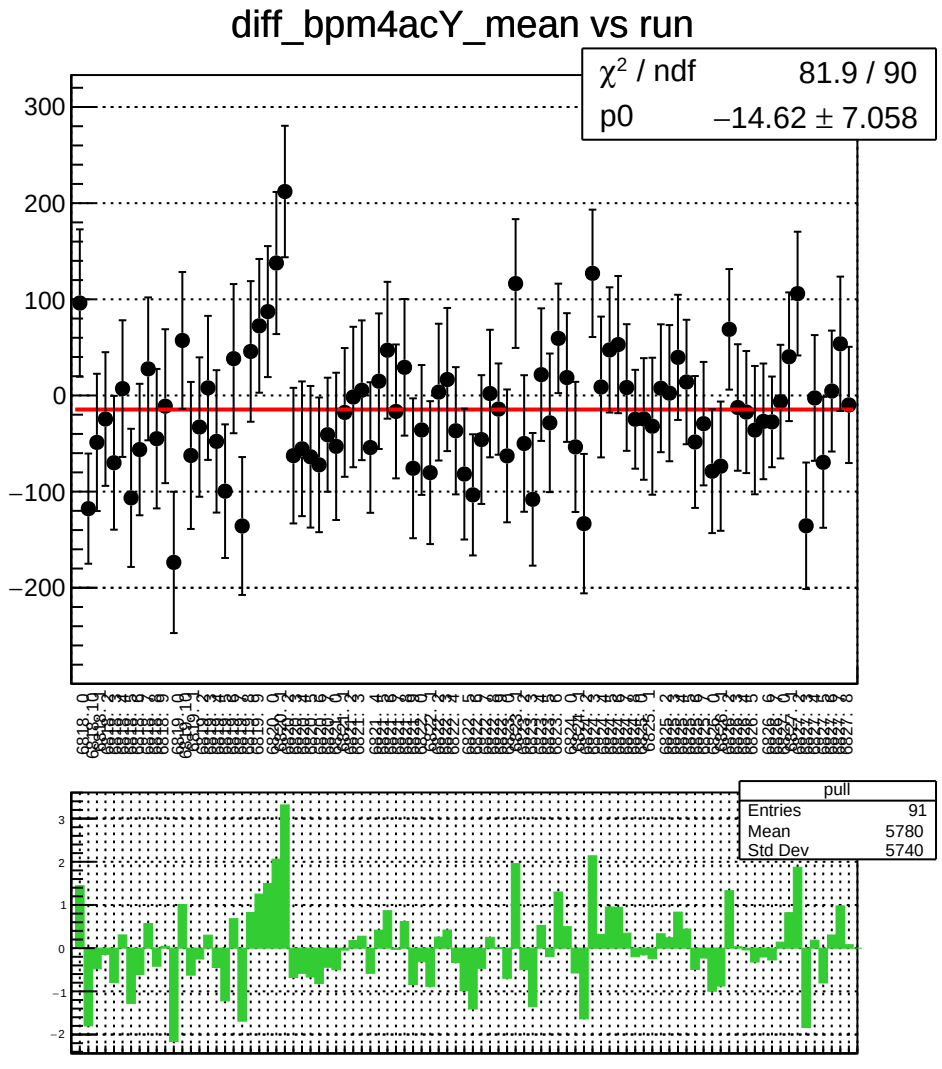

pull1D
Entries 91
Mean 0.0009489
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

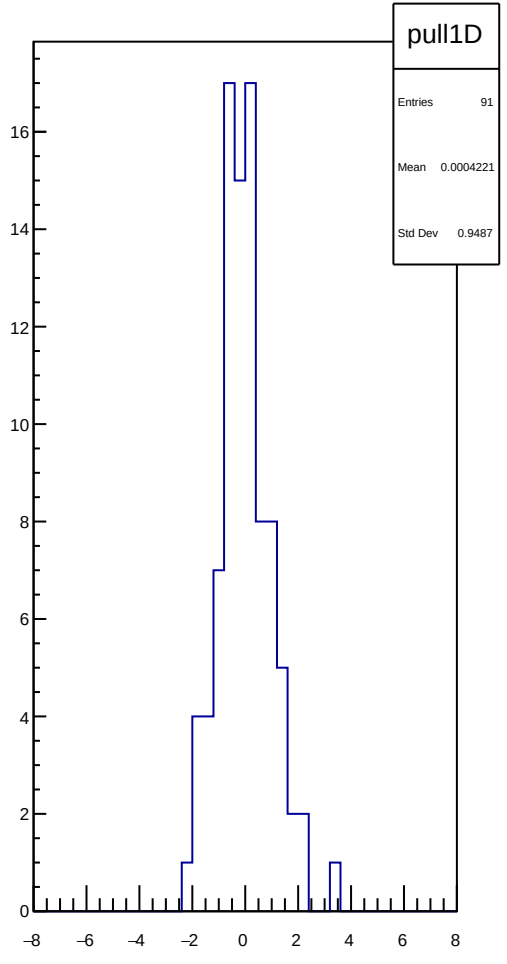

diff_bpm4eY_rms vs run
χ² / ndf 4128 / 90
p0 5694 ± 4.335
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

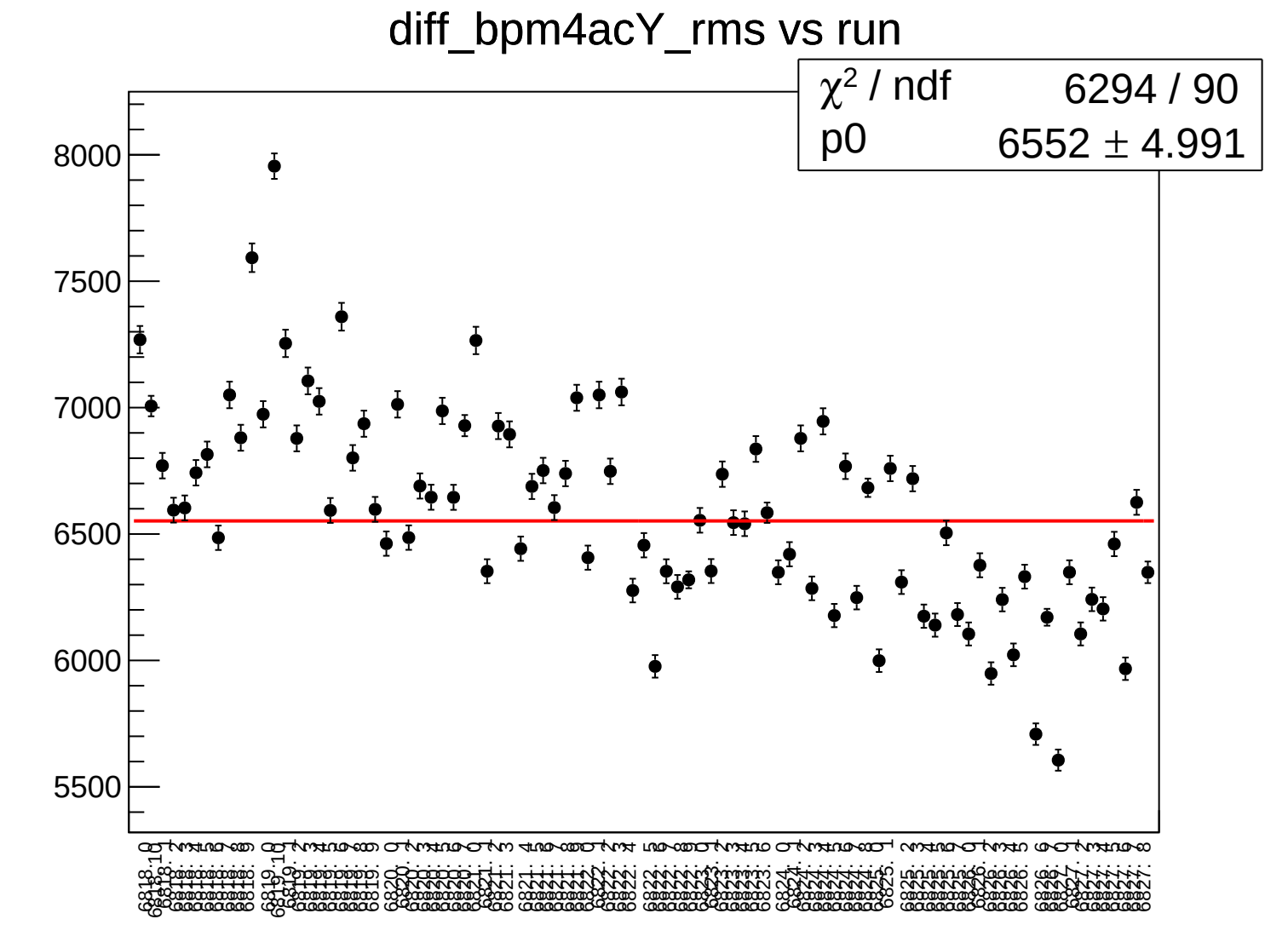

diff_bpm4acX_mean vs run
χ² / ndf 72.07 / 90
p0 −14.3 ± 10.51
pull
Entries 91
Mean −1257
Std Dev 1292

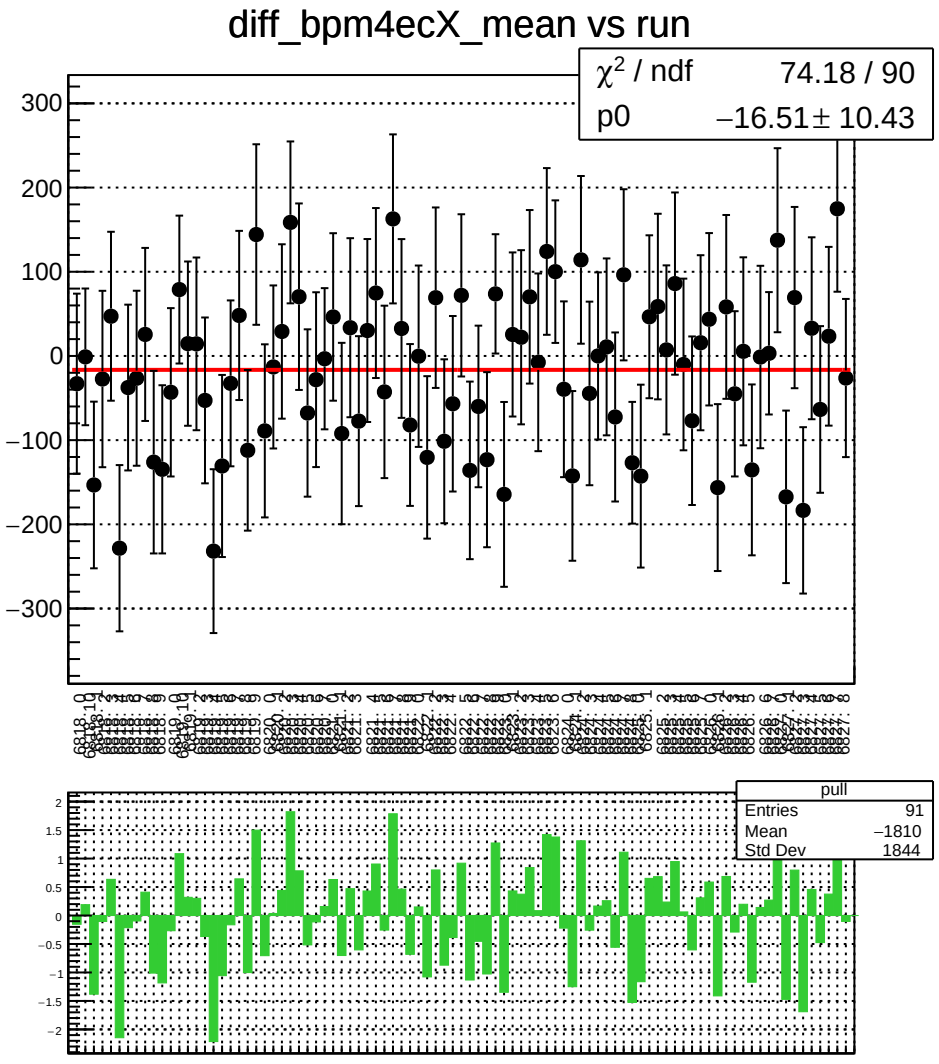

pull1D
Entries 91
Mean −0.002038
Std Dev 0.89

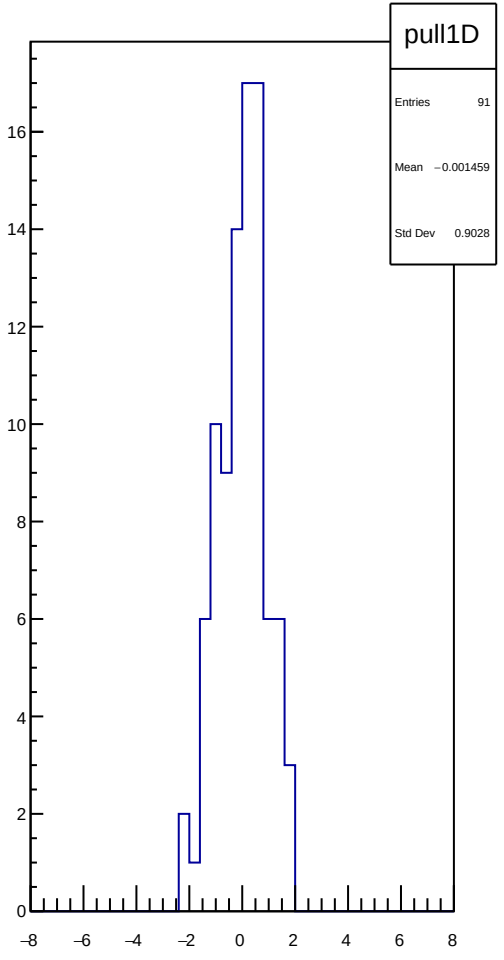

diff_bpm4acX_rms vs run
χ² / ndf 2786 / 90
p0 9762 ± 7.429
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000

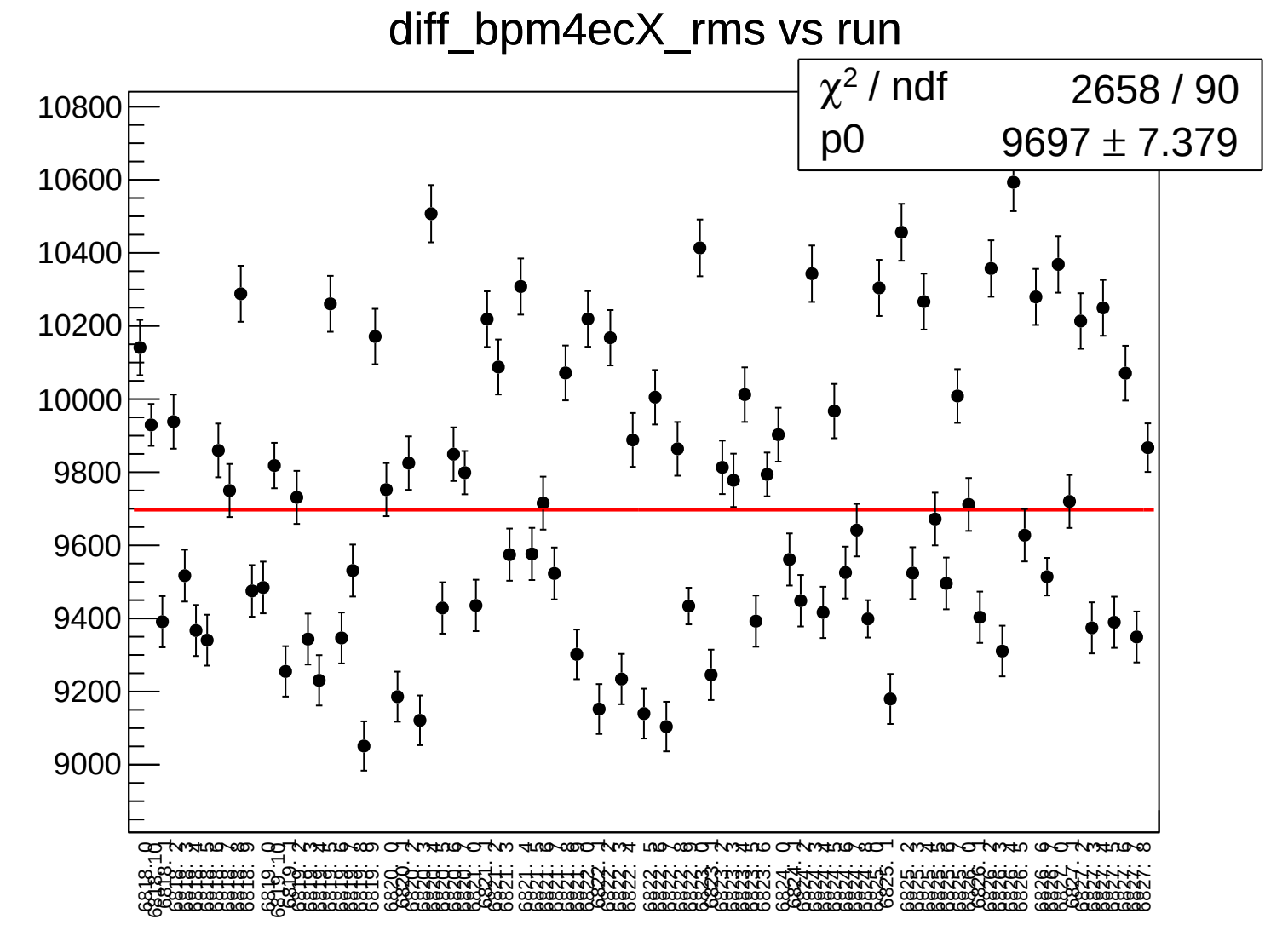

diff_bpm4acY_mean vs run
χ² / ndf 81.9 / 90
p0 −14.62 ± 7.058
300
200
100
0
−100
−200
pull
Entries 91
Mean 5780
Std Dev 5740
3
2
1
0
−1
−2

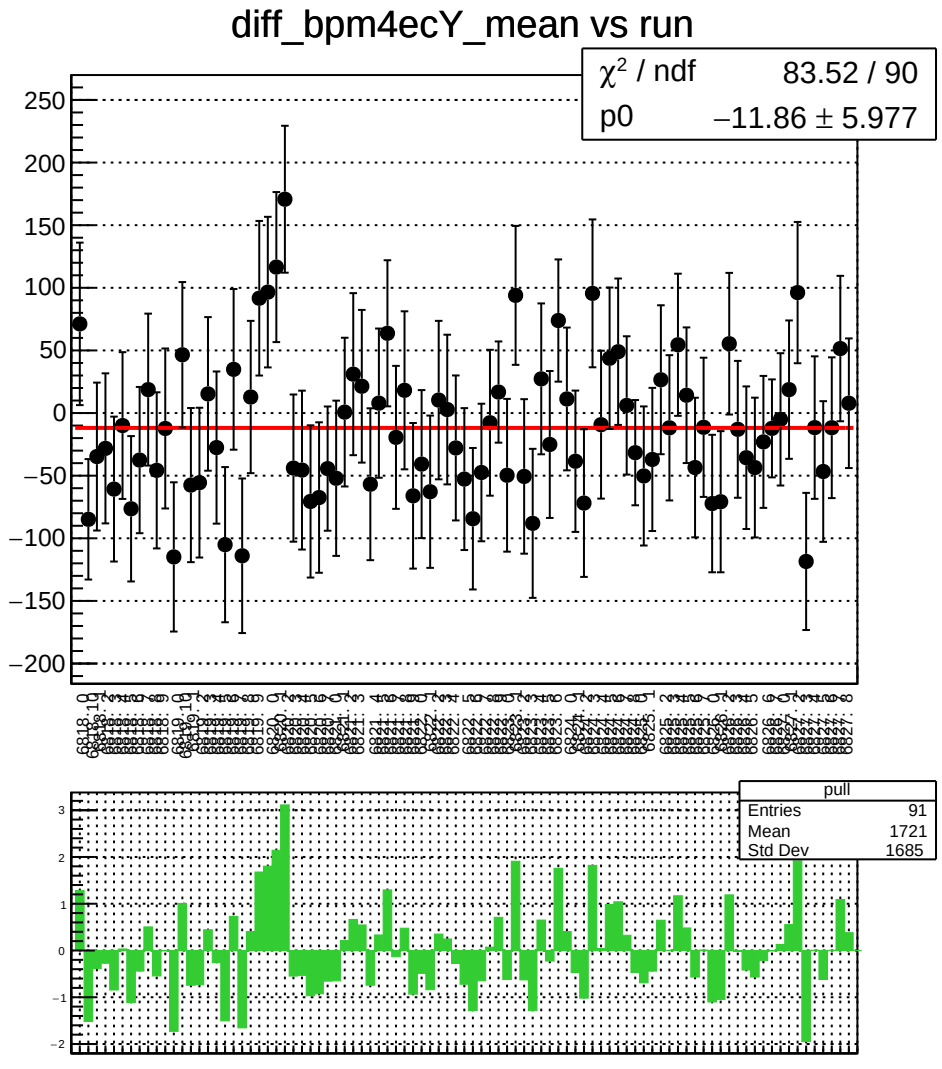

pull1D
Entries 91
Mean 0.0004221
Std Dev 0.9487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

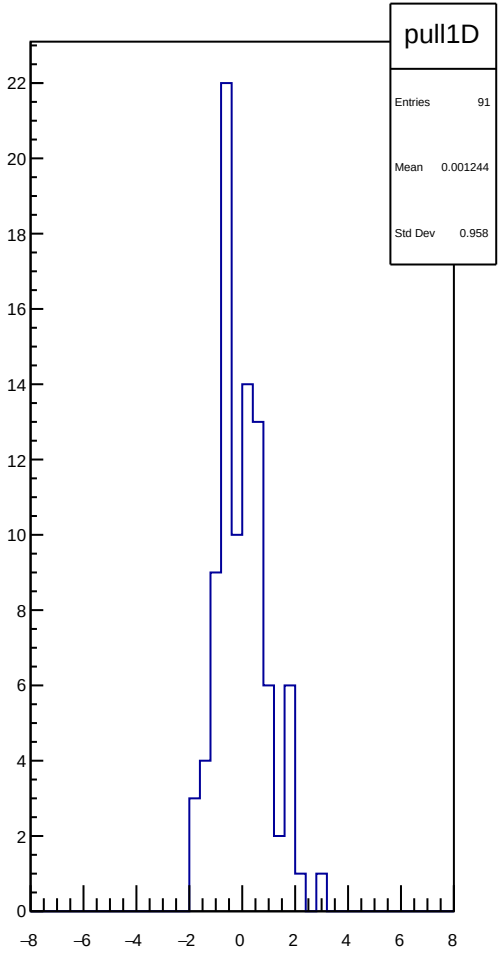

diff_bpm4acY_rms vs run
χ² / ndf 6294 / 90
p0 6552 ± 4.991
8000
7500
7000
6500
6000
5500

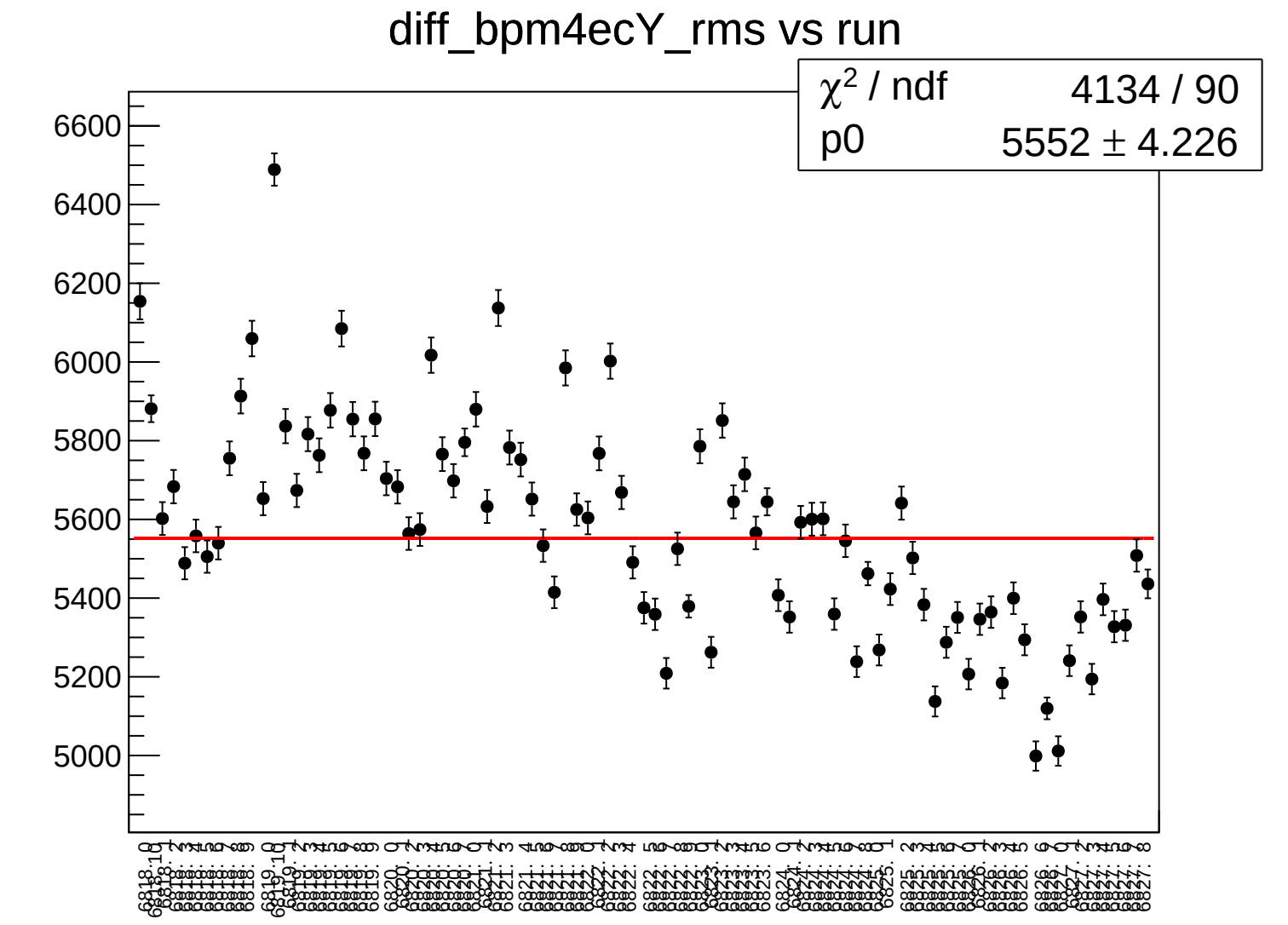

diff_bpm4ecX_mean vs run
χ² / ndf 74.18 / 90
p0 −16.51± 10.43
pull
Entries 91
Mean −1810
Std Dev 1844

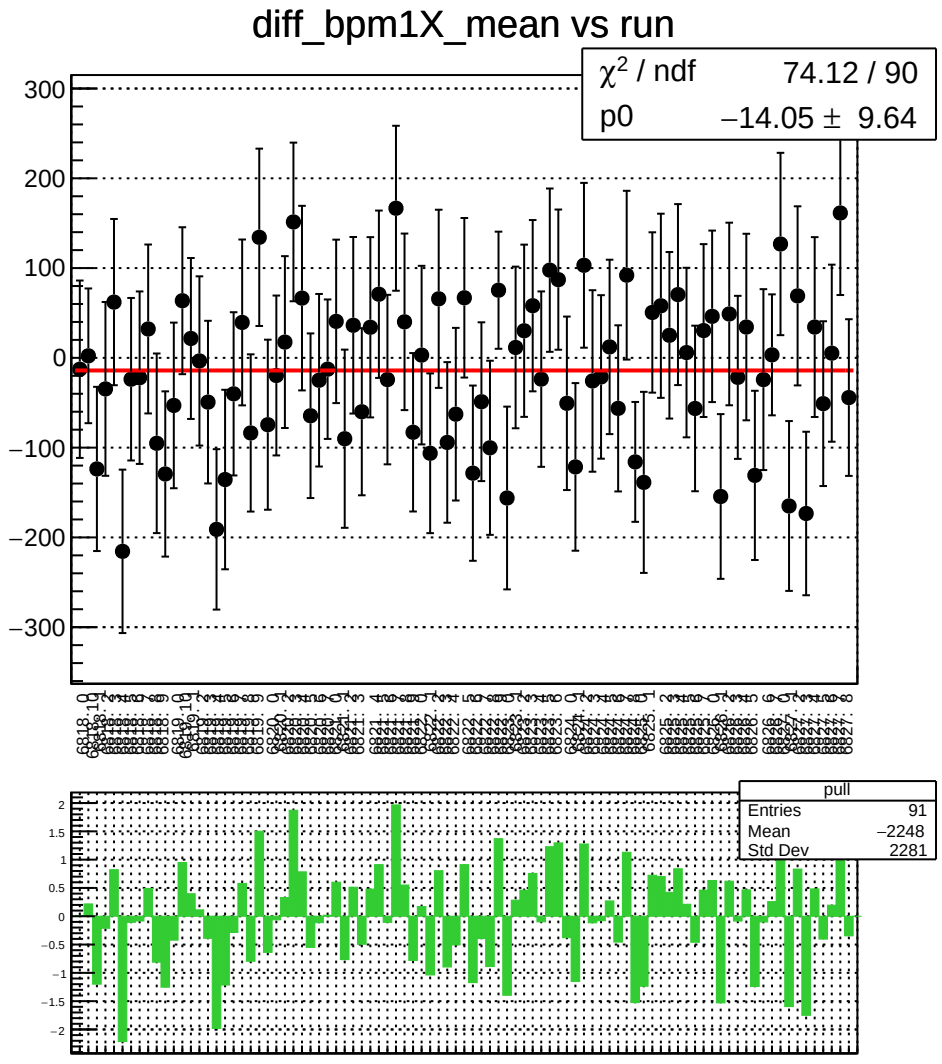

pull1D
Entries 91
Mean −0.001459
Std Dev 0.9028

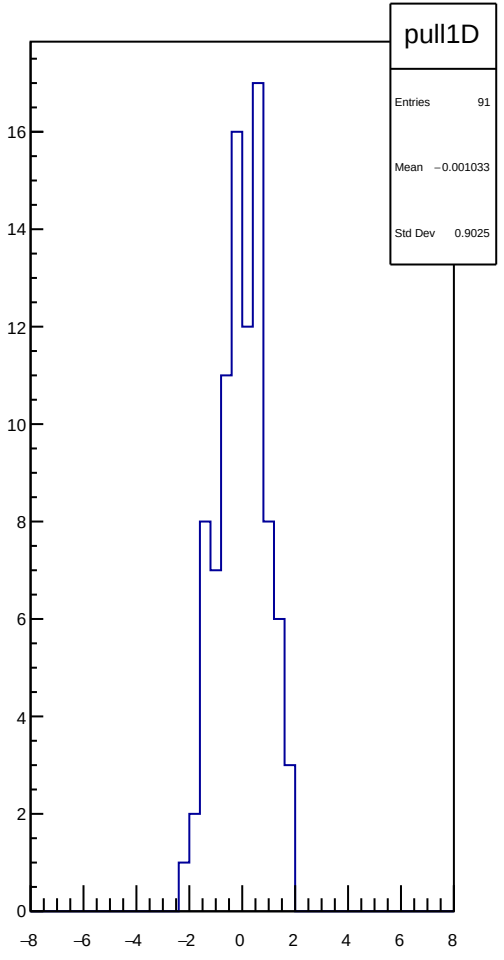

diff_bpm4ecX_rms vs run
χ² / ndf 2658 / 90
p0 9697 ± 7.379
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000

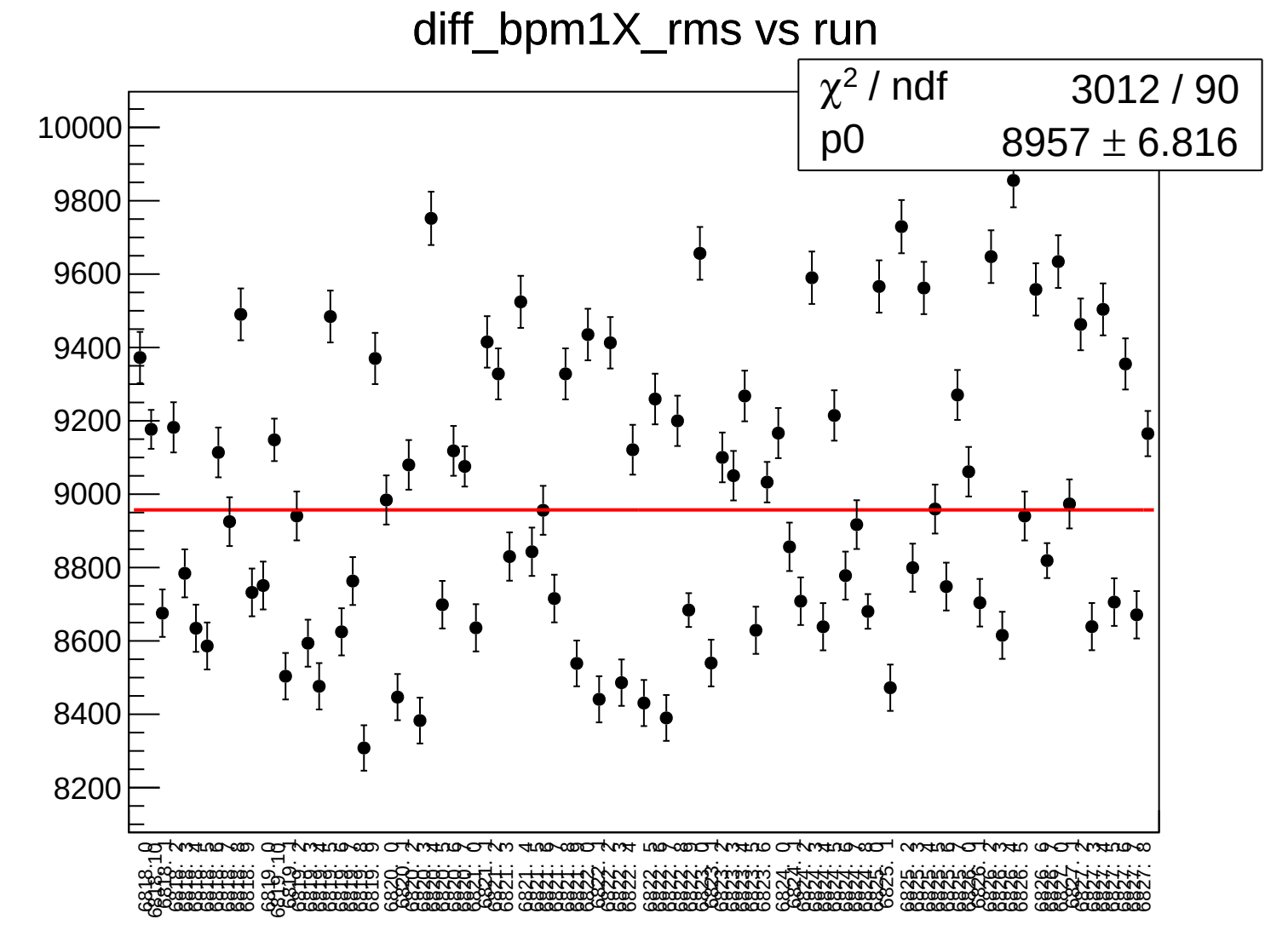

diff_bpm4ecY_mean vs run
χ² / ndf 83.52 / 90
p0 −11.86 ± 5.977
pull
Entries 91
Mean 1721
Std Dev 1685

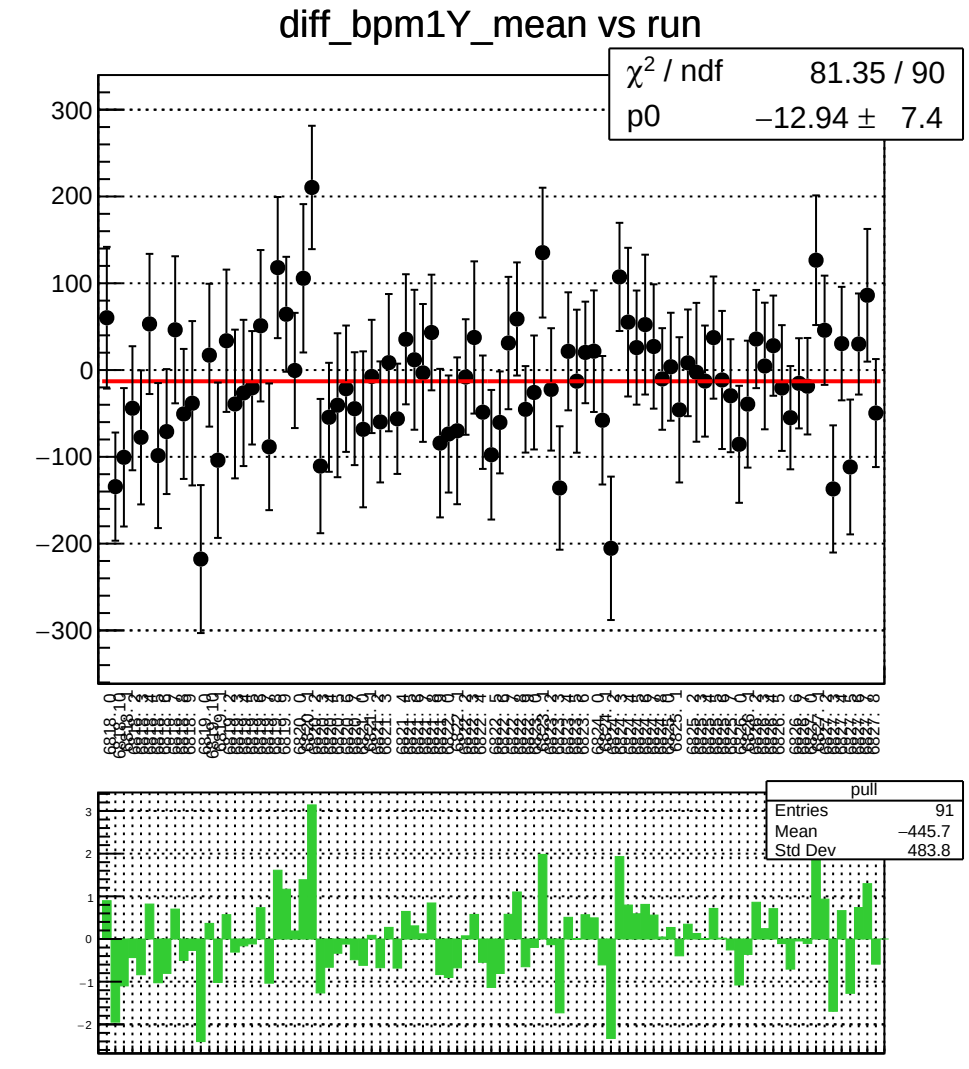

pull1D
Entries 91
Mean 0.001244
Std Dev 0.958

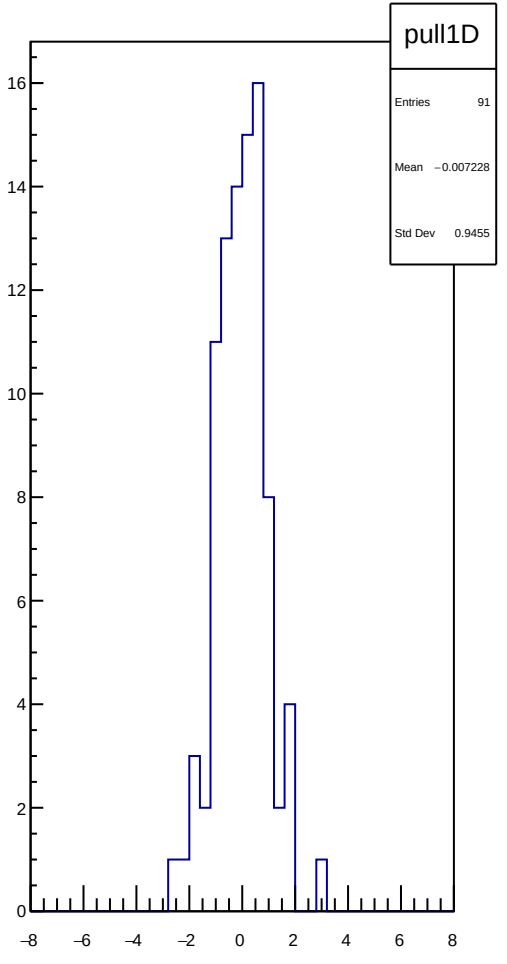

diff_bpm4ecY_rms vs run
χ² / ndf 4134 / 90
p0 5552 ± 4.226
6600
6400
6200
6000
5800
5600
5400
5200
5000

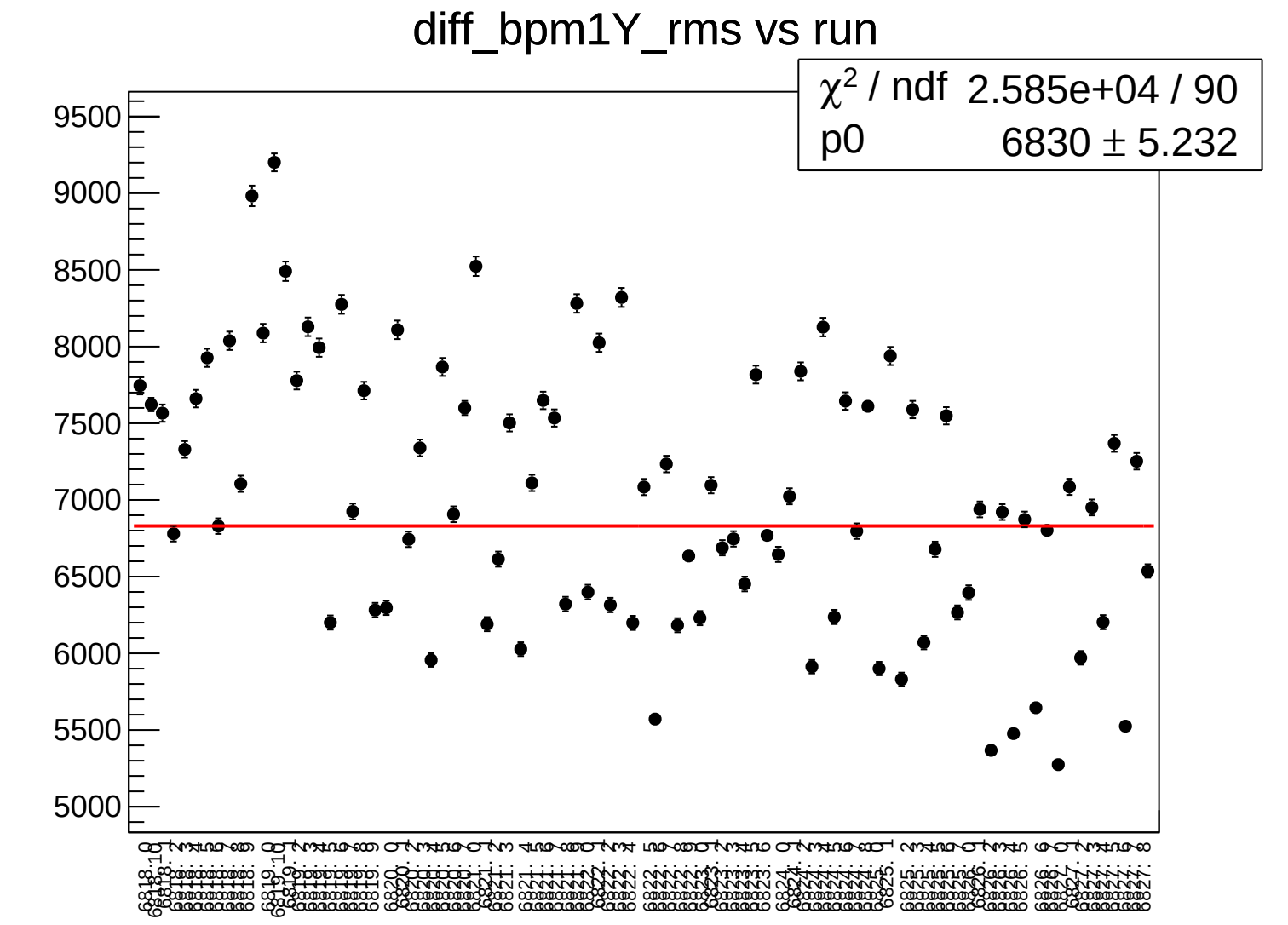

diff_bpm1X_mean vs run
χ² / ndf 74.12 / 90
p0 −14.05 ± 9.64
pull
Entries 91
Mean −2248
Std Dev 2281

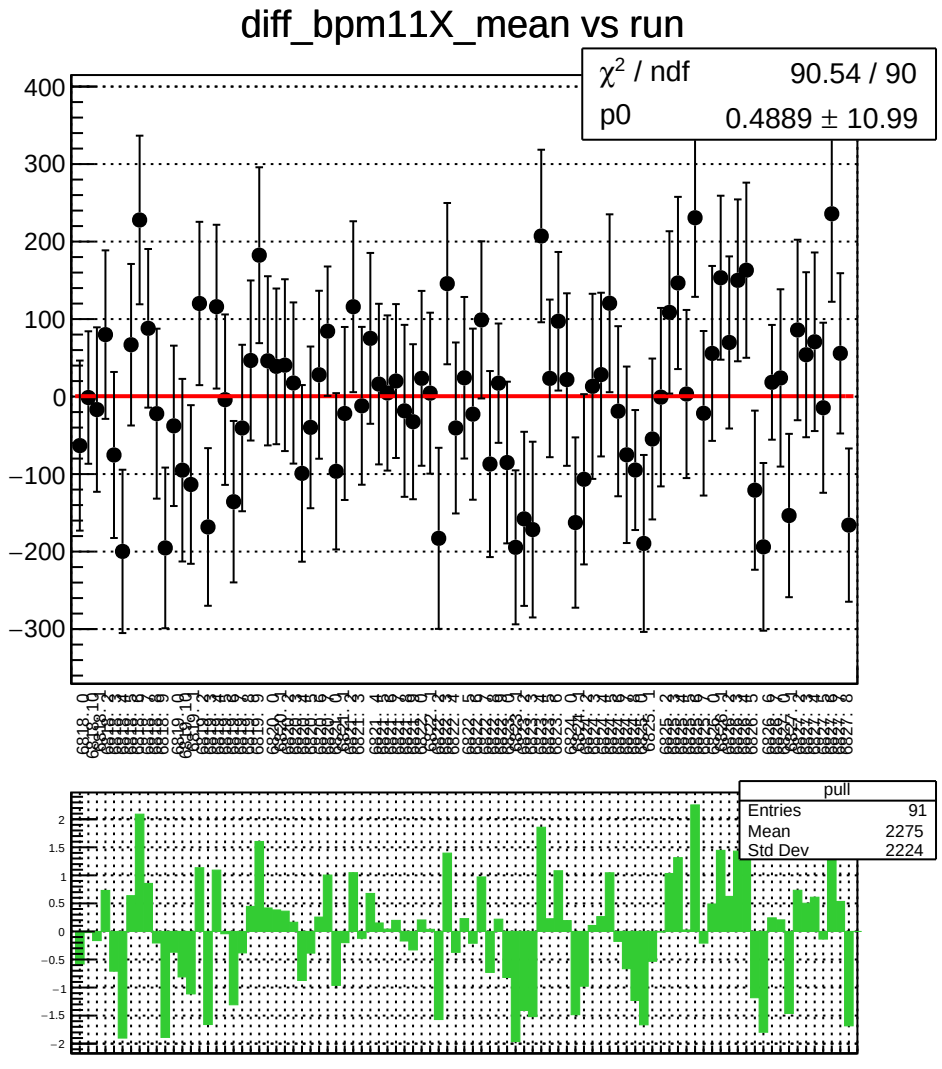

pull1D
Entries 91
Mean −0.001033
Std Dev 0.9025

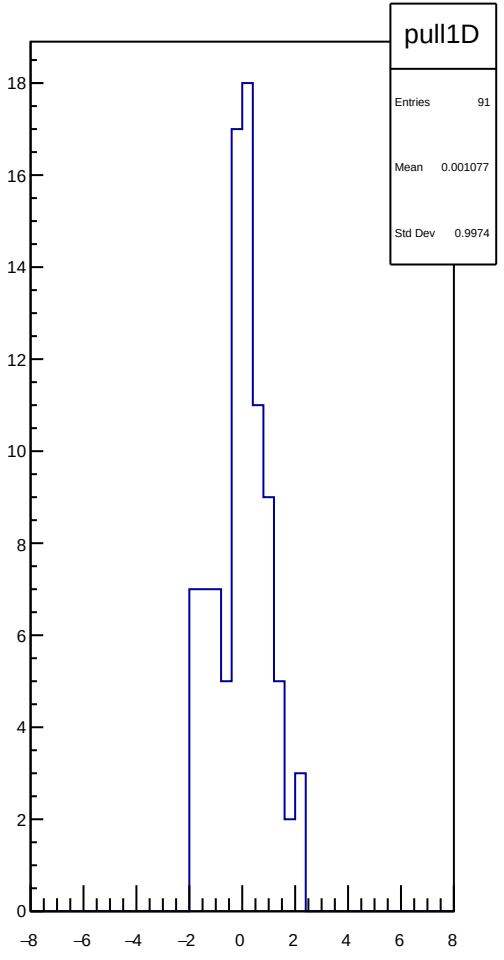

diff_bpm1X_rms vs run
χ^2 / ndf 3012 / 90
p0 8957 ± 6.816
10000
9800
9600
9400
9200
9000
8800
8600
8400
8200

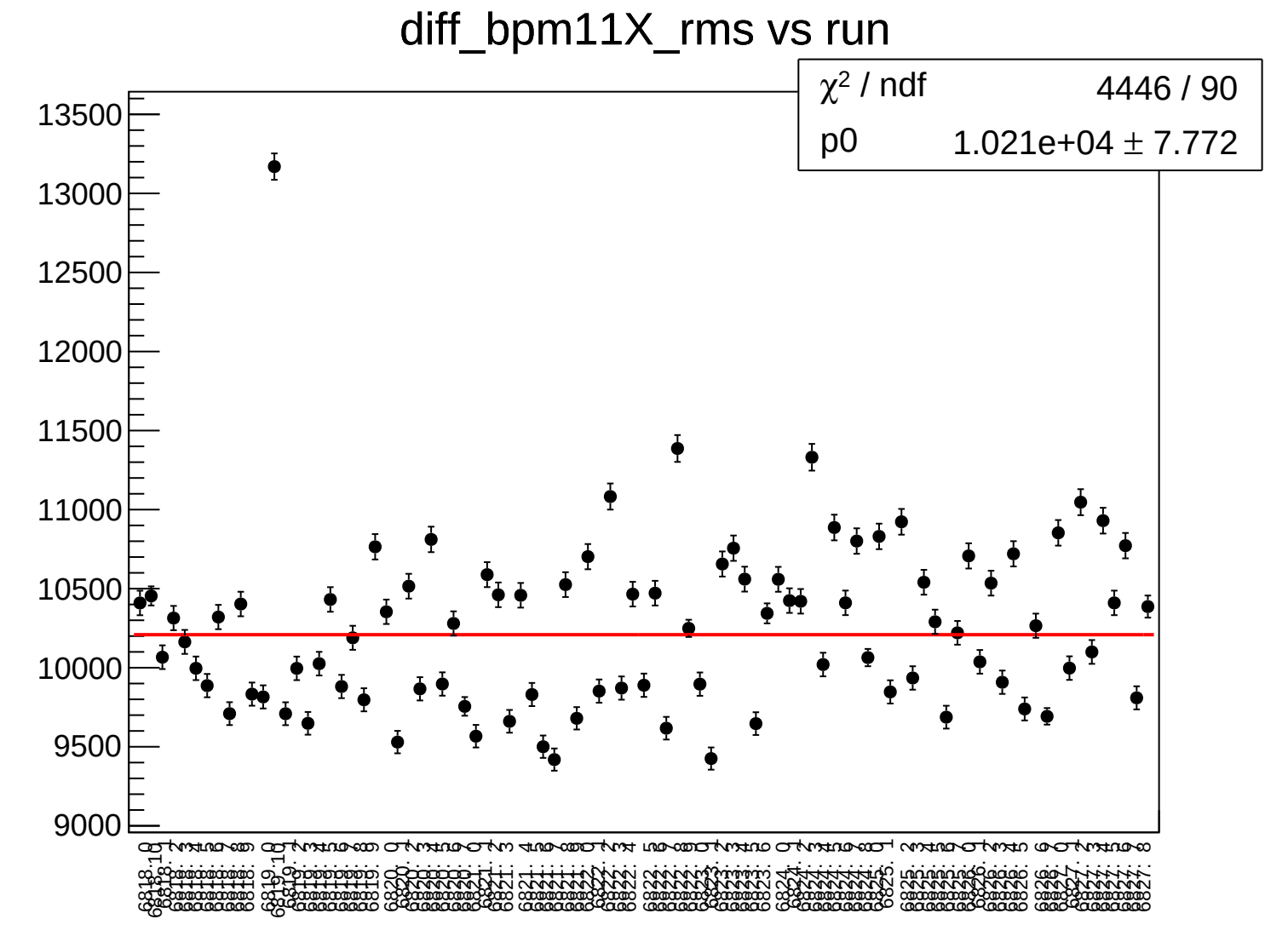

diff_bpm1Y_mean vs run
χ² / ndf 81.35 / 90
p0 −12.94 ± 7.4
pull
Entries 91
Mean −445.7
Std Dev 483.8

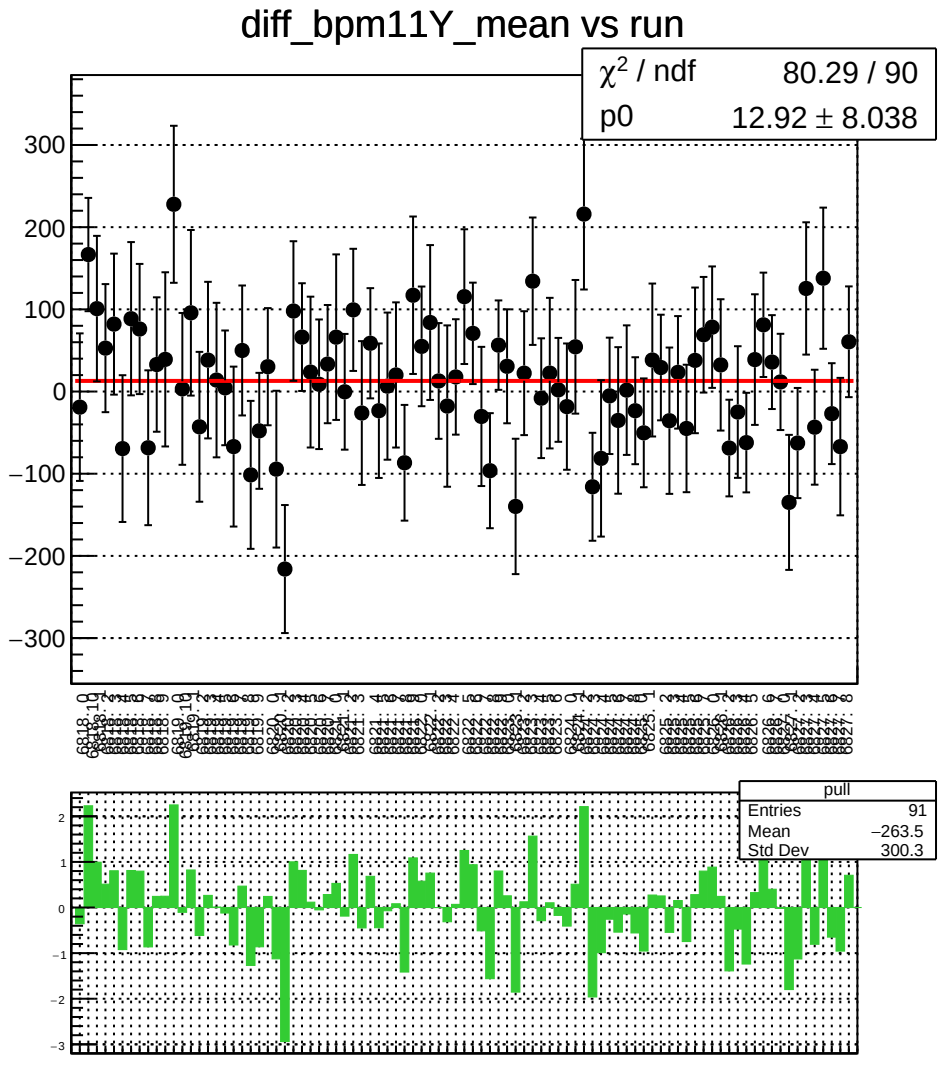

pull1D
Entries 91
Mean −0.007228
Std Dev 0.9455

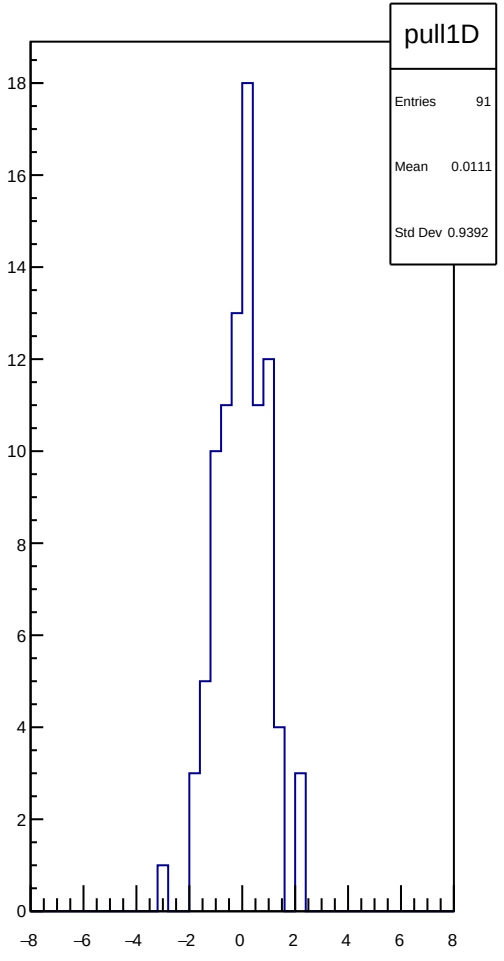

diff_bpm1Y_rms vs run
χ^2 / ndf 2.585e+04 / 90
p0 6830 ± 5.232
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

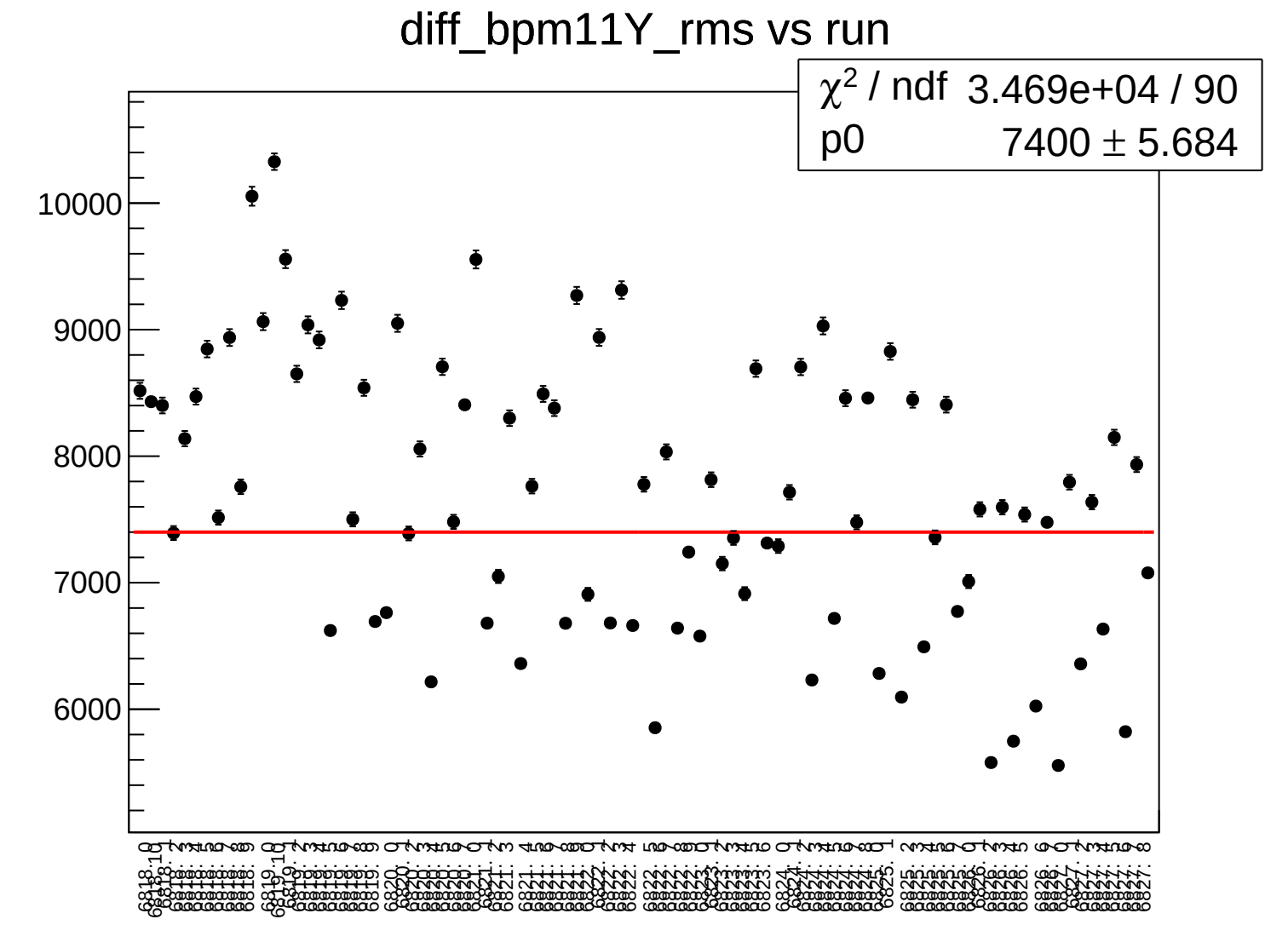

diff_bpm11X_mean vs run
χ² / ndf 90.54 / 90
p0 0.4889 ± 10.99
pull
Entries 91
Mean 2275
Std Dev 2224

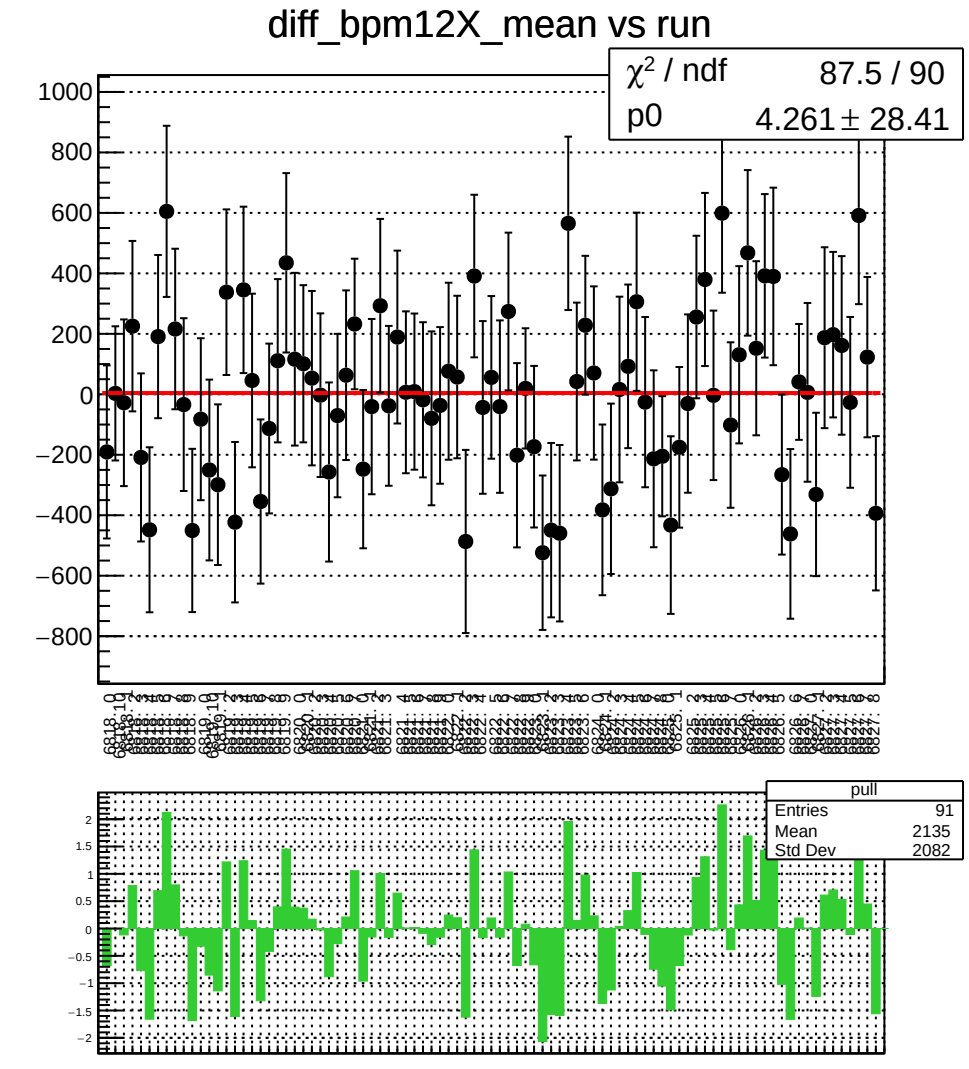

pull1D
Entries 91
Mean 0.001077
Std Dev 0.9974

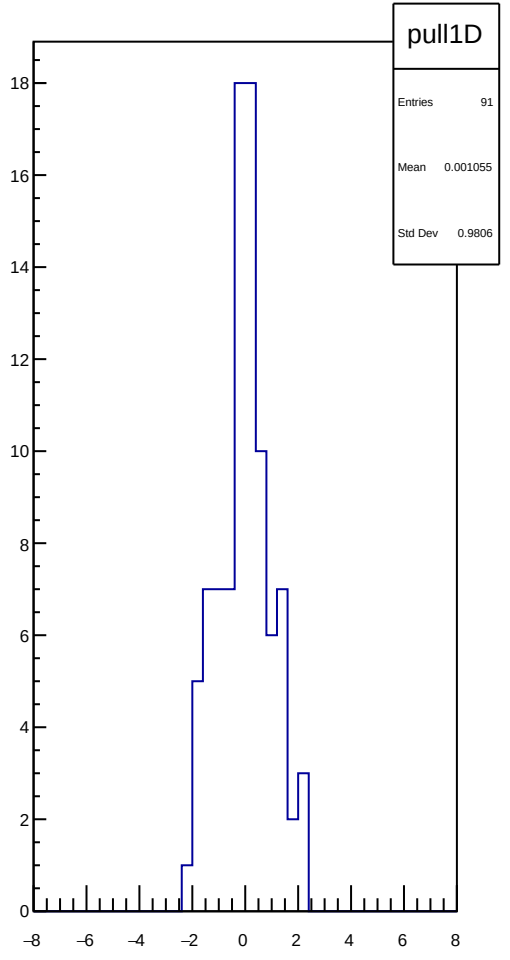

diff_bpm11X_rms vs run
χ² / ndf 4446 / 90
p0 1.021e+04 ± 7.772
13500
13000
12500
12000
11500
11000
10500
10000
9500
9000

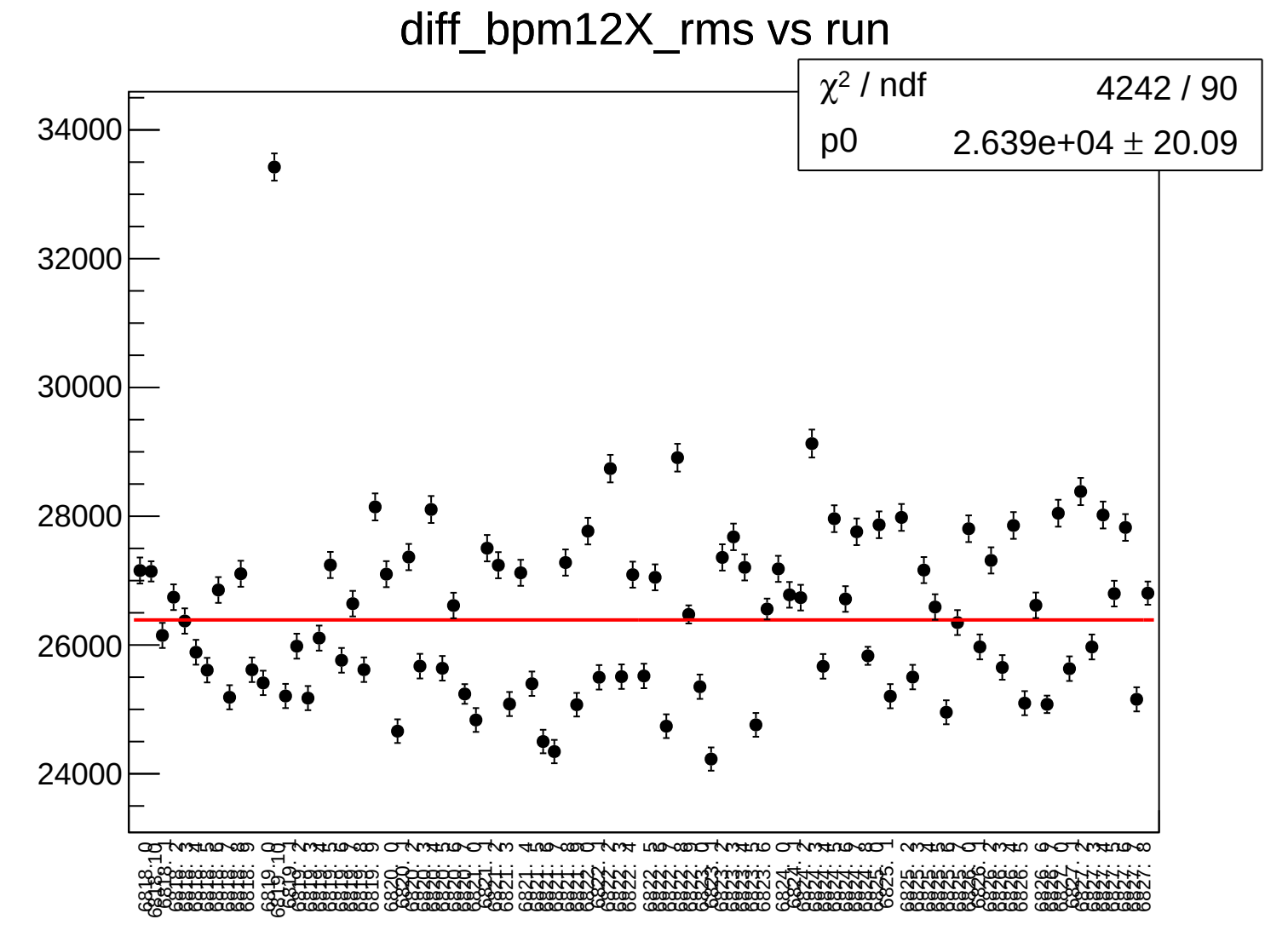

diff_bpm11Y_mean vs run
χ² / ndf 80.29 / 90
p0 12.92 ± 8.038
pull
Entries 91
Mean −263.5
Std Dev 300.3

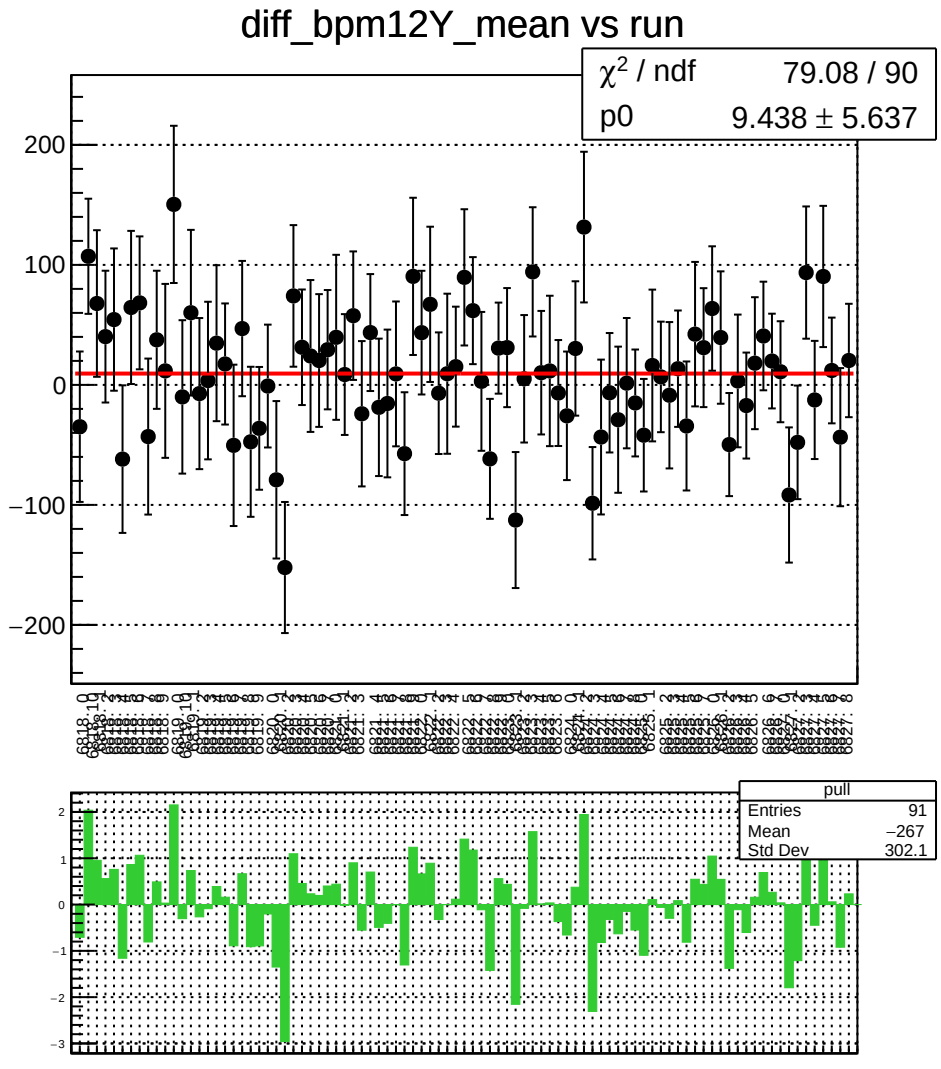

pull1D
Entries 91
Mean 0.0111
Std Dev 0.9392

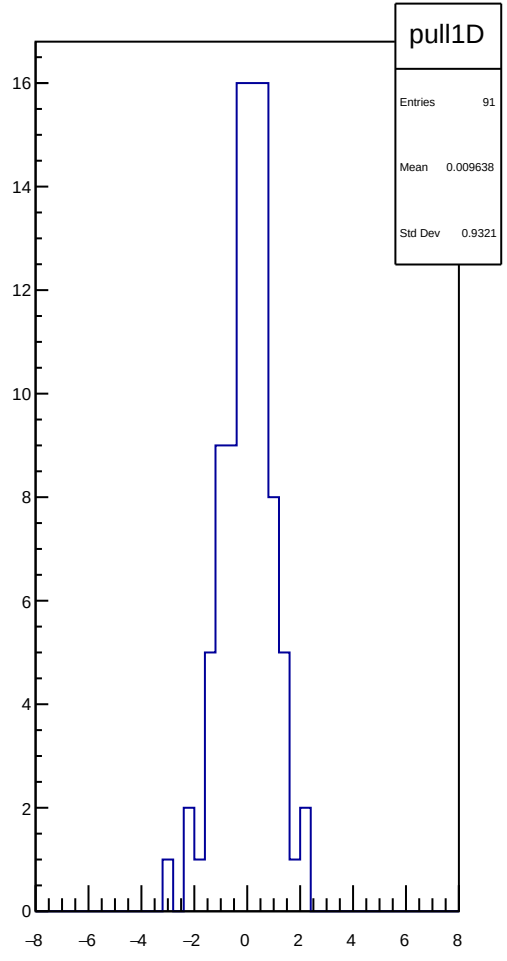

diff_bpm11Y_rms vs run
χ² / ndf 3.469e+04 / 90
p0 7400 ± 5.684
10000
9000
8000
7000
6000

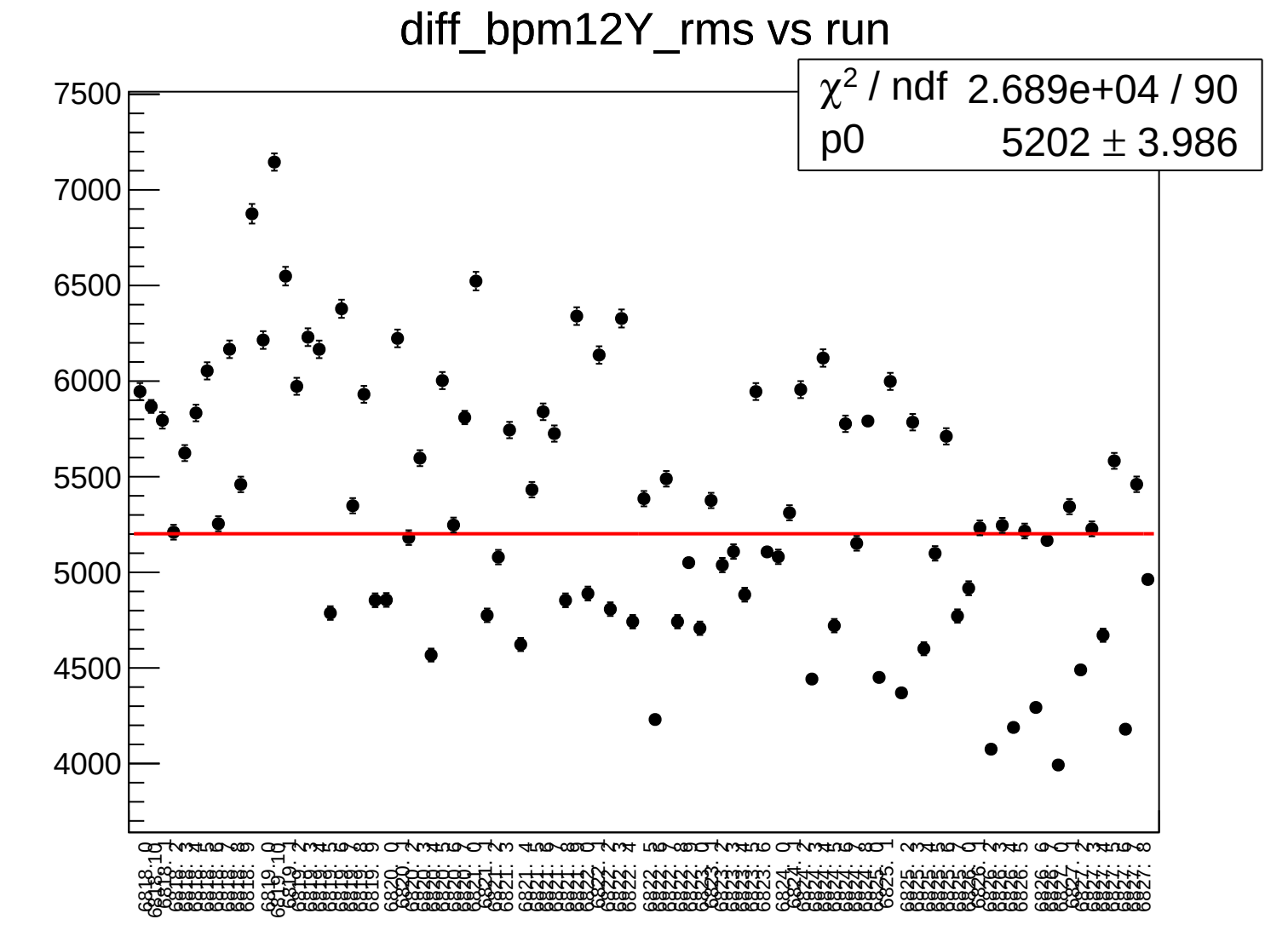

diff_bpm12X_mean vs run
χ² / ndf 87.5 / 90
p0 4.261 ± 28.41
pull
Entries 91
Mean 2135
Std Dev 2082

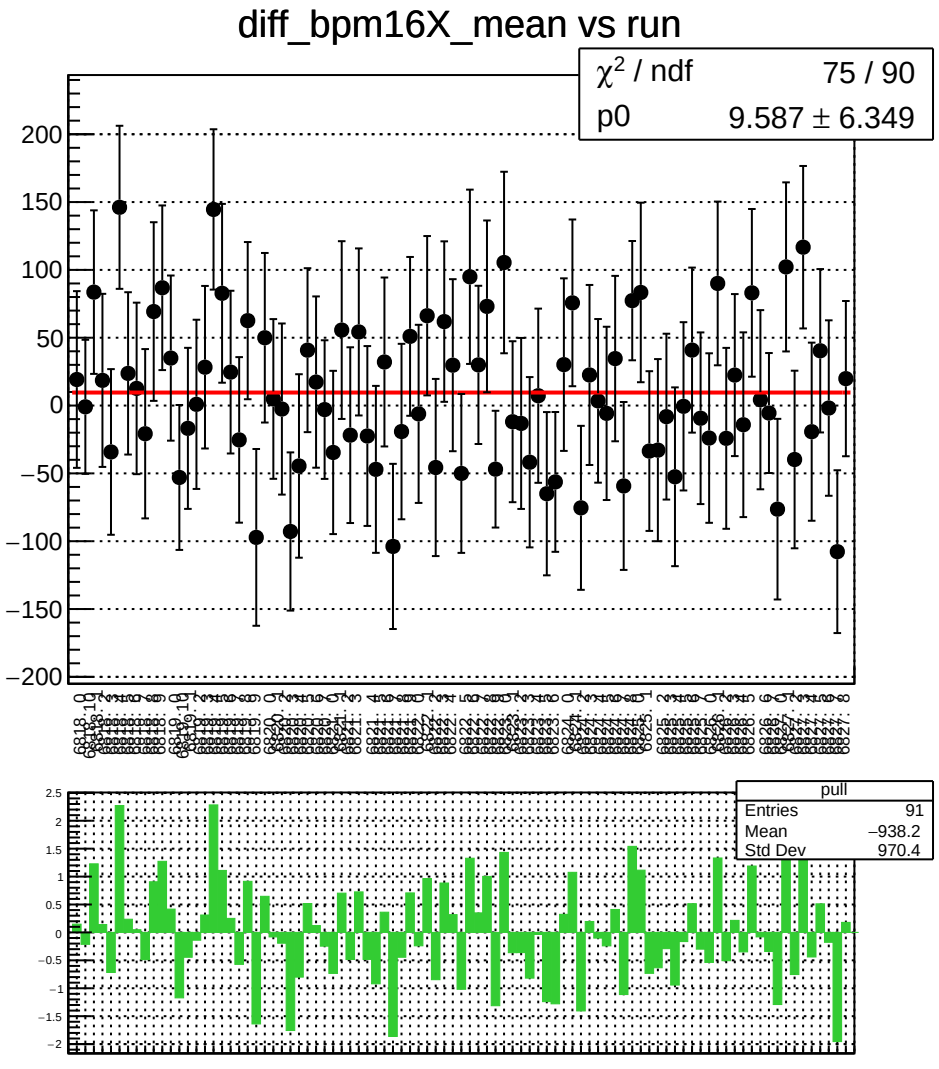

pull1D
Entries 91
Mean 0.001055
Std Dev 0.9806

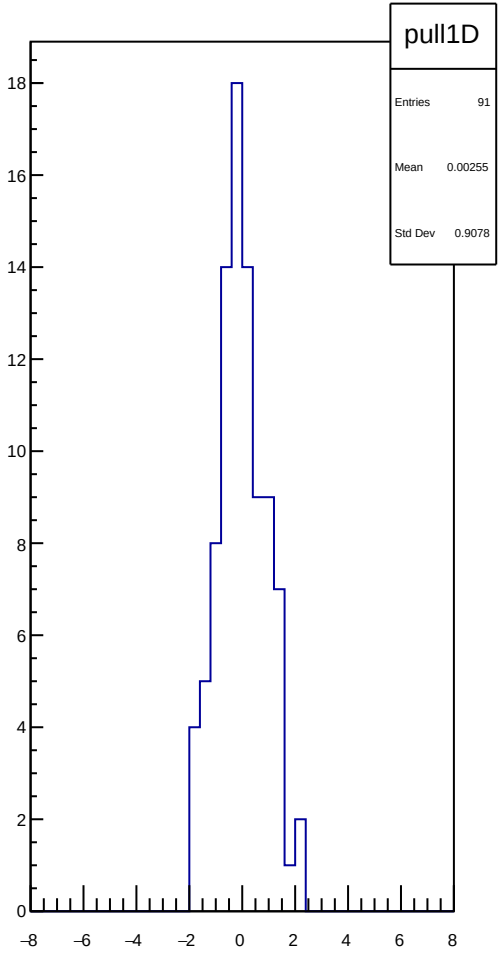

diff_bpm12X_rms vs run
χ² / ndf 4242 / 90
p0 2.639e+04 ± 20.09
34000
32000
30000
28000
26000
24000

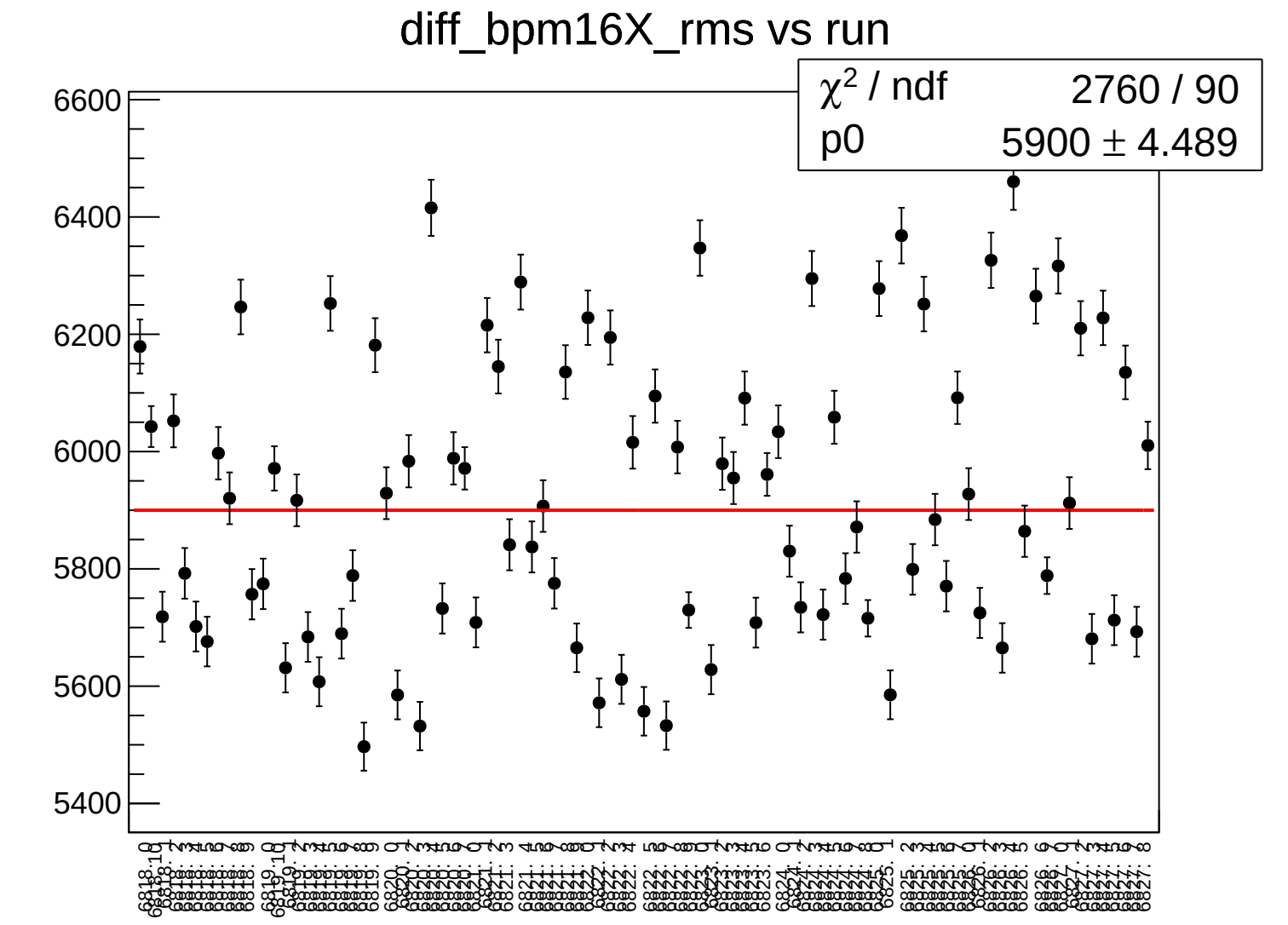

diff_bpm12Y_mean vs run
χ^2 / ndf 79.08 / 90
p0 9.438 ± 5.637
200
100
0
−100
−200
pull
Entries 91
Mean −267
Std Dev 302.1
2
1
0
−1
−2
−3

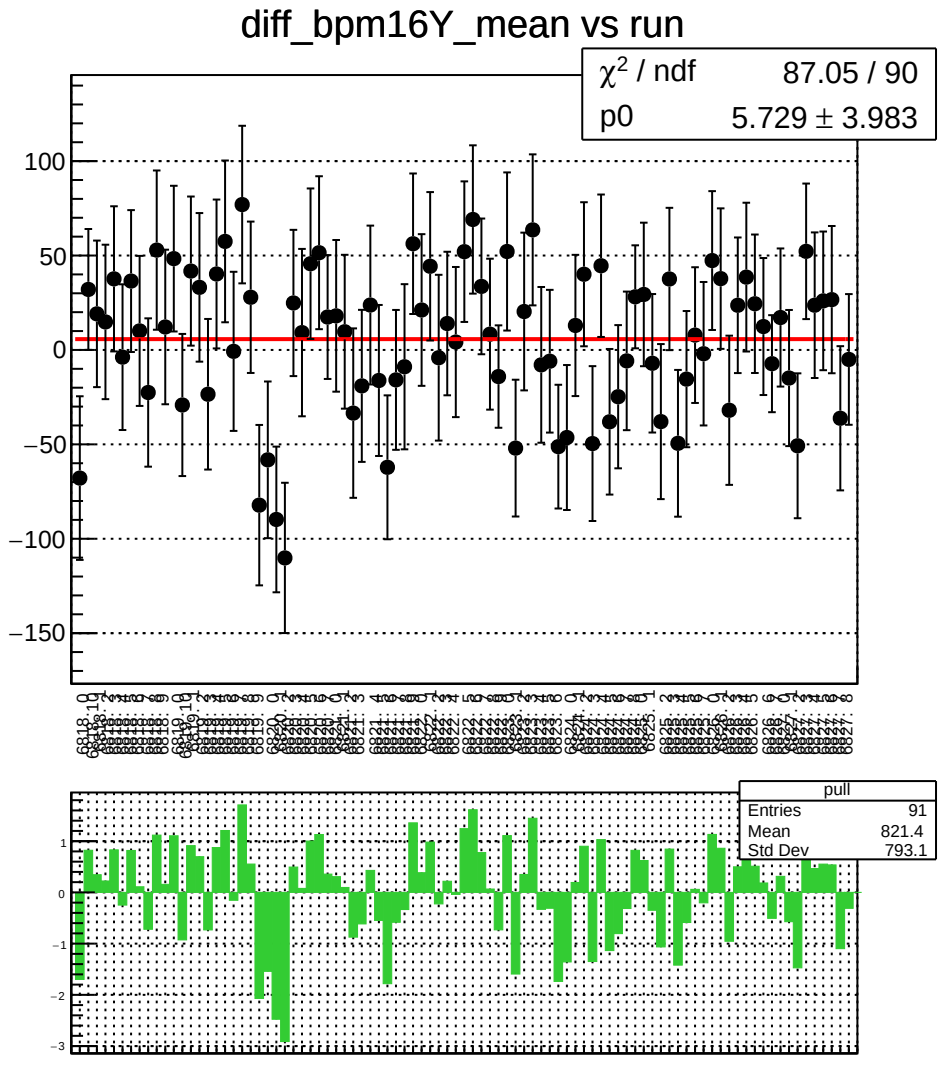

pull1D
Entries 91
Mean 0.009638
Std Dev 0.9321
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

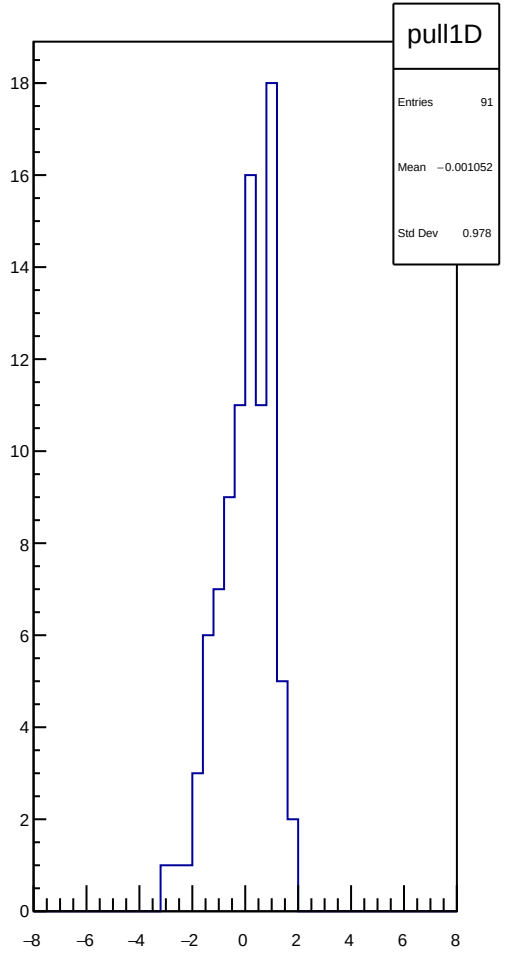

diff_bpm12Y_rms vs run
χ² / ndf 2.689e+04 / 90
p0 5202 ± 3.986
7500
7000
6500
6000
5500
5000
4500
4000

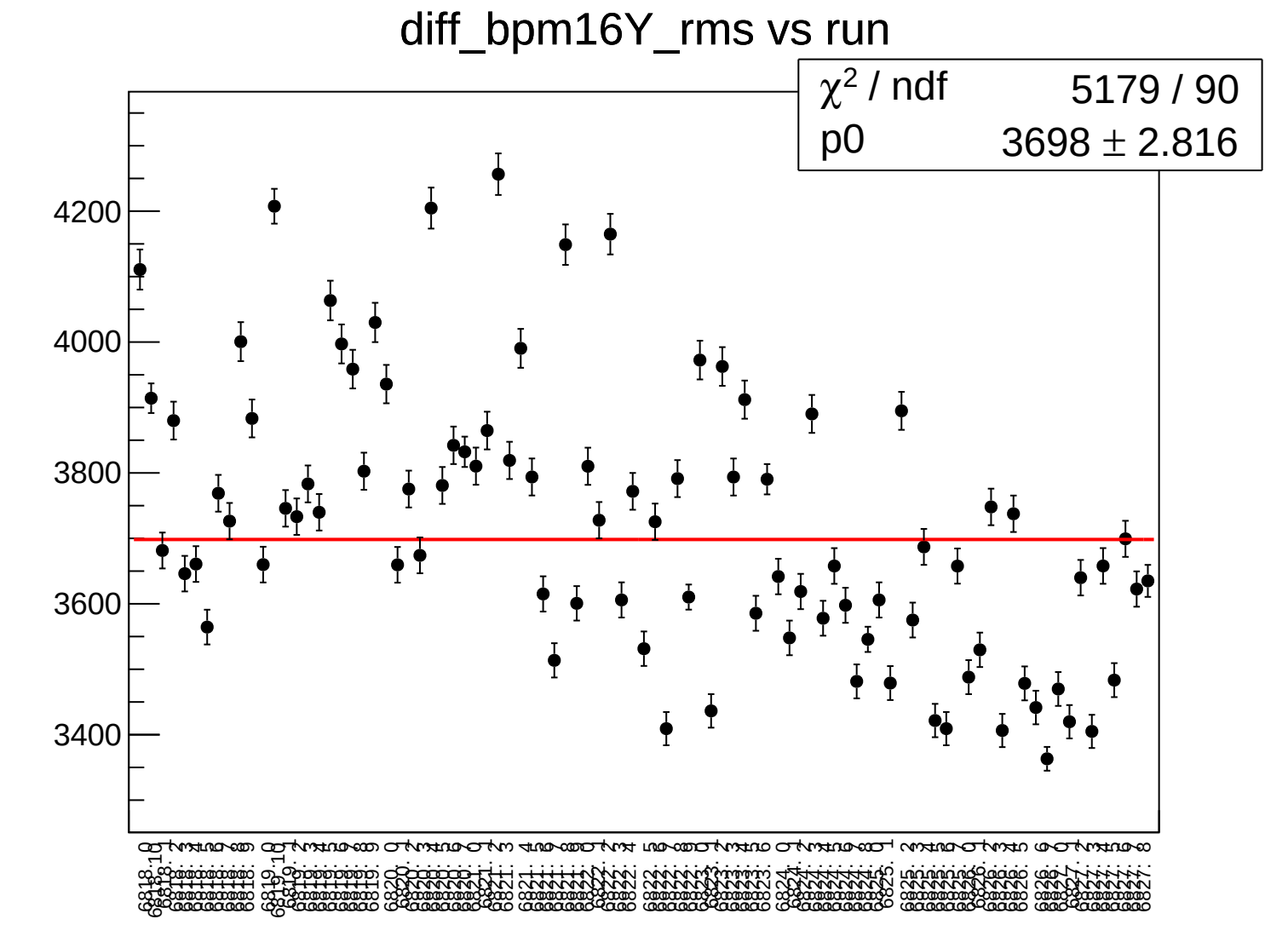

diff_bpm16X_mean vs run
χ^2 / ndf 75 / 90
p0 9.587 ± 6.349
pull
Entries 91
Mean −938.2
Std Dev 970.4

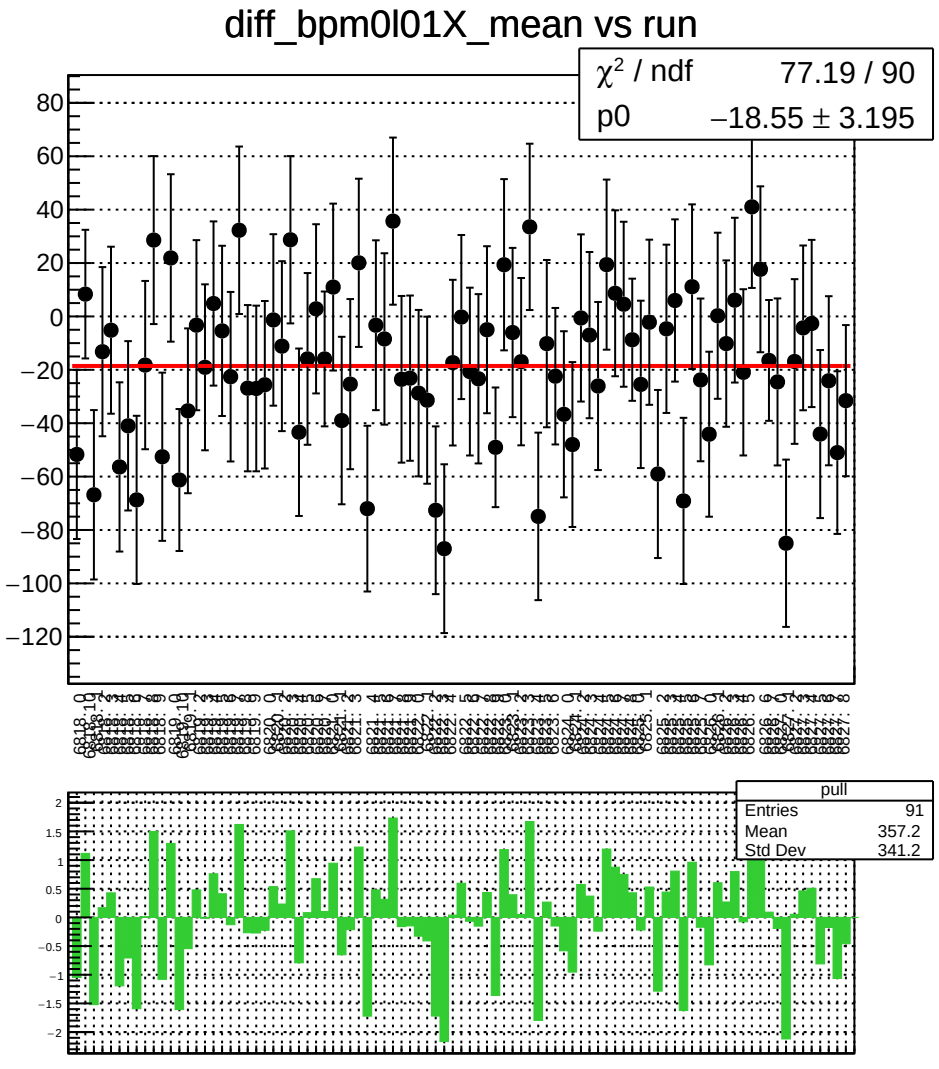

pull1D
Entries 91
Mean 0.00255
Std Dev 0.9078

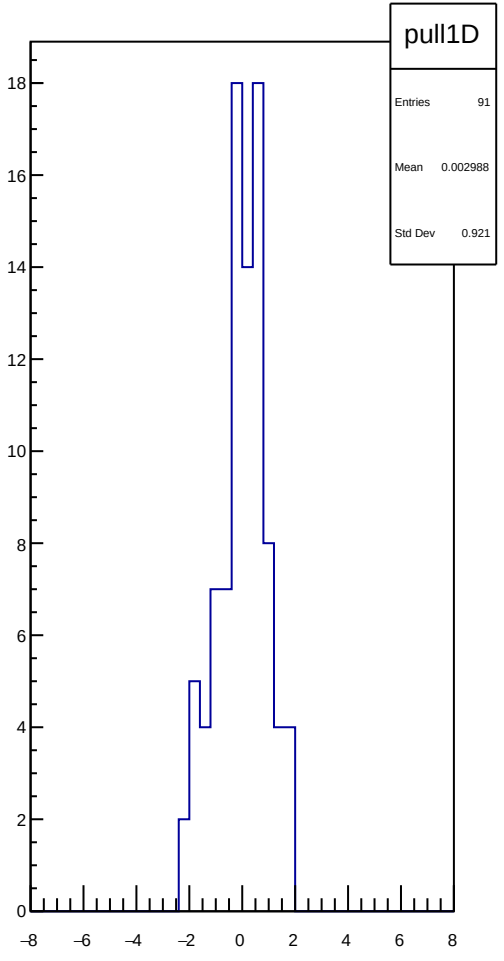

diff_bpm16X_rms vs run
χ² / ndf 2760 / 90
p0 5900 ± 4.489
6600
6400
6200
6000
5800
5600
5400

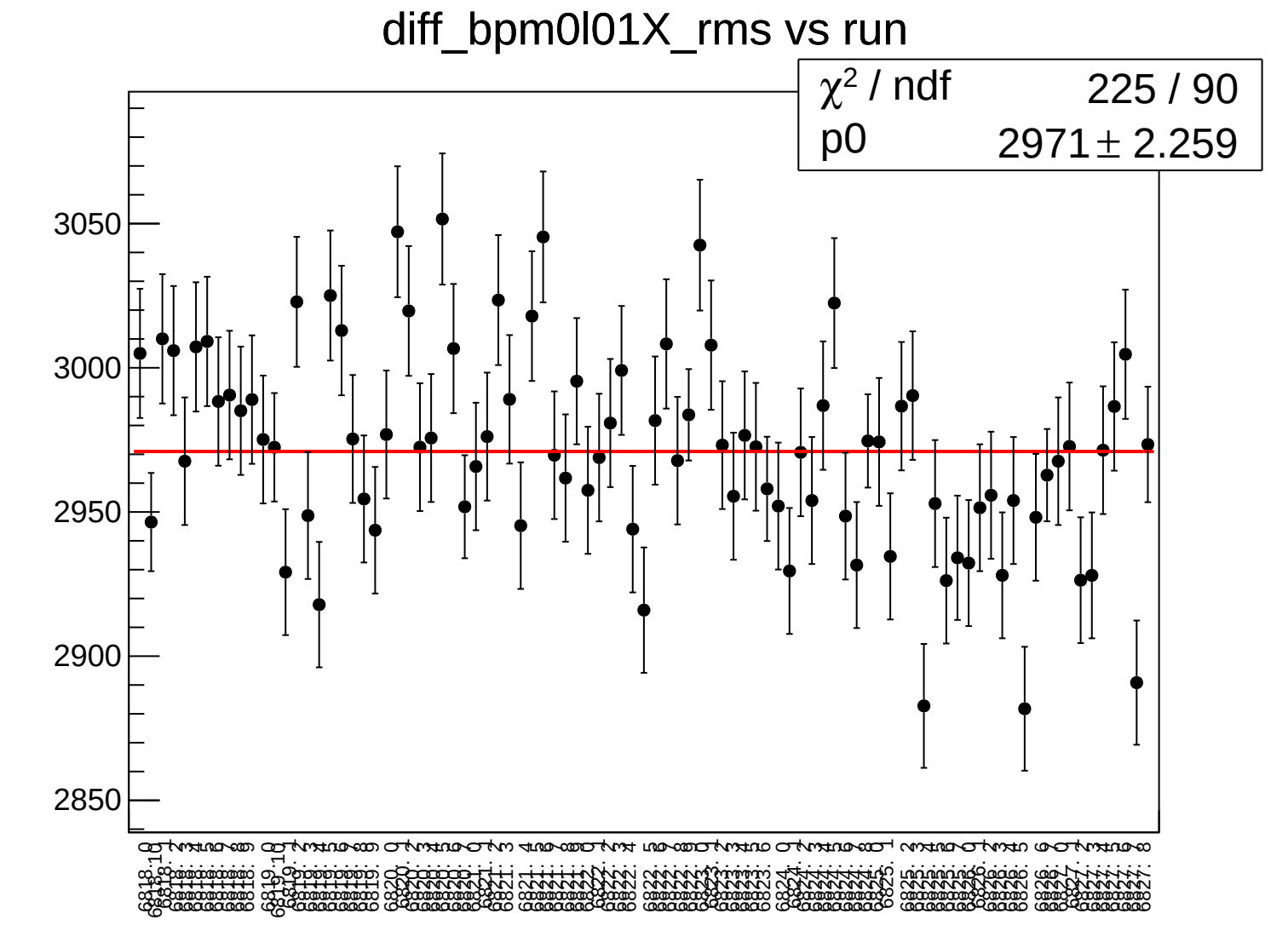

diff_bpm16Y_mean vs run
χ² / ndf 87.05 / 90
p0 5.729 ± 3.983
100
50
0
−50
−100
−150
pull
Entries 91
Mean 821.4
Std Dev 793.1
1
0
−1
−2
−3

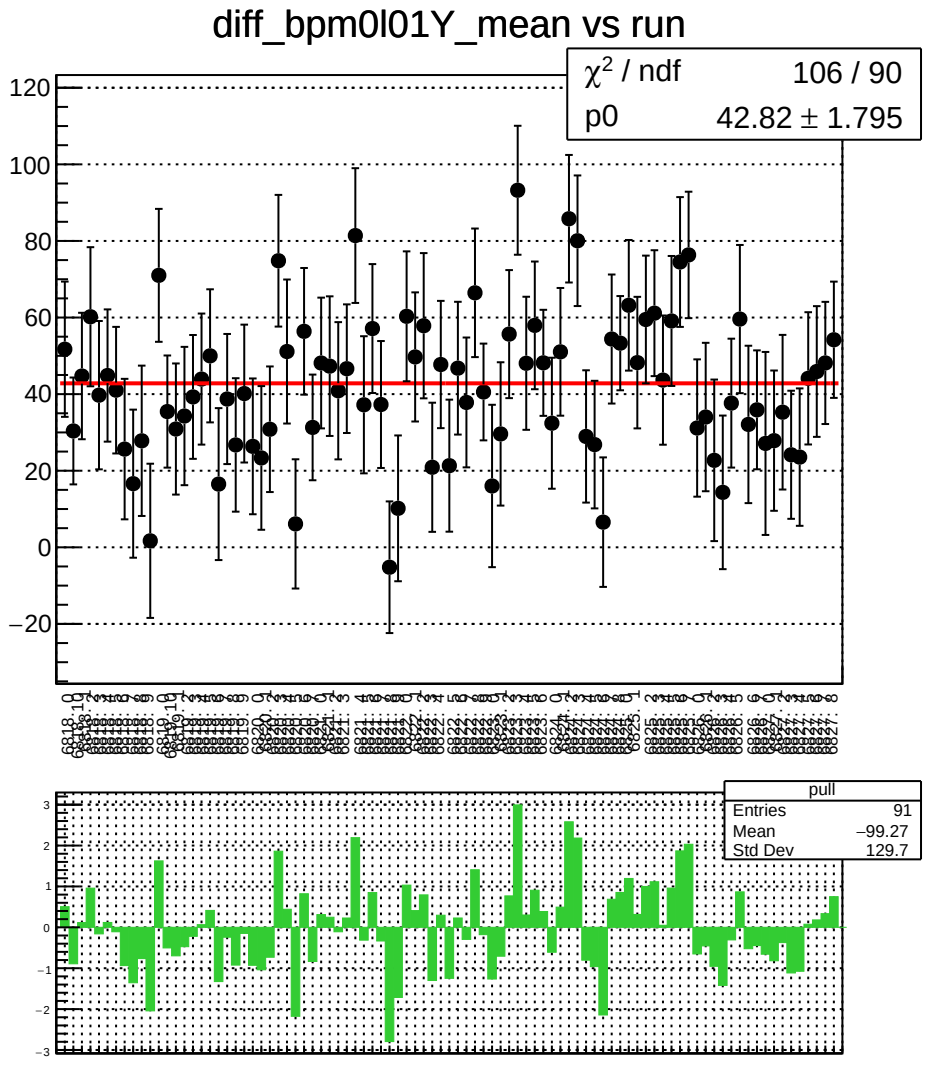

pull1D
Entries 91
Mean −0.001052
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

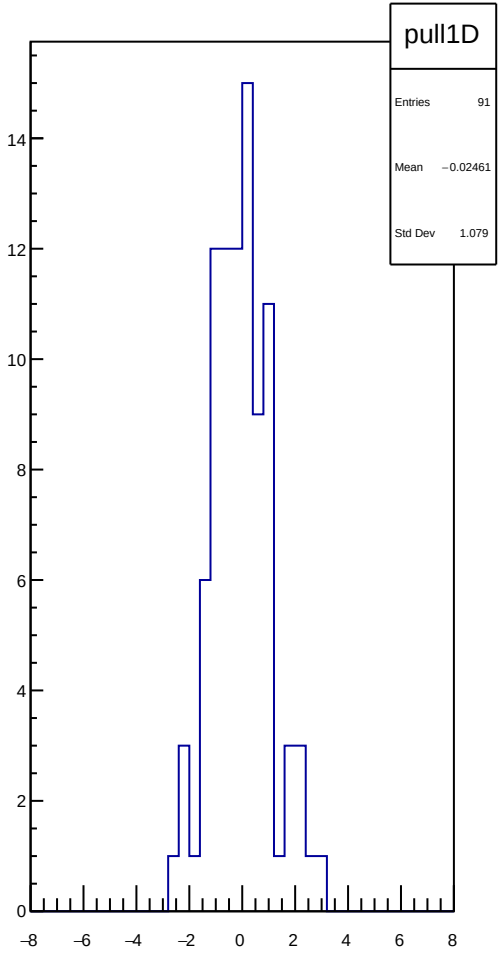

diff_bpm16Y_rms vs run
χ² / ndf 5179 / 90
p0 3698 ± 2.816
4200
4000
3800
3600
3400

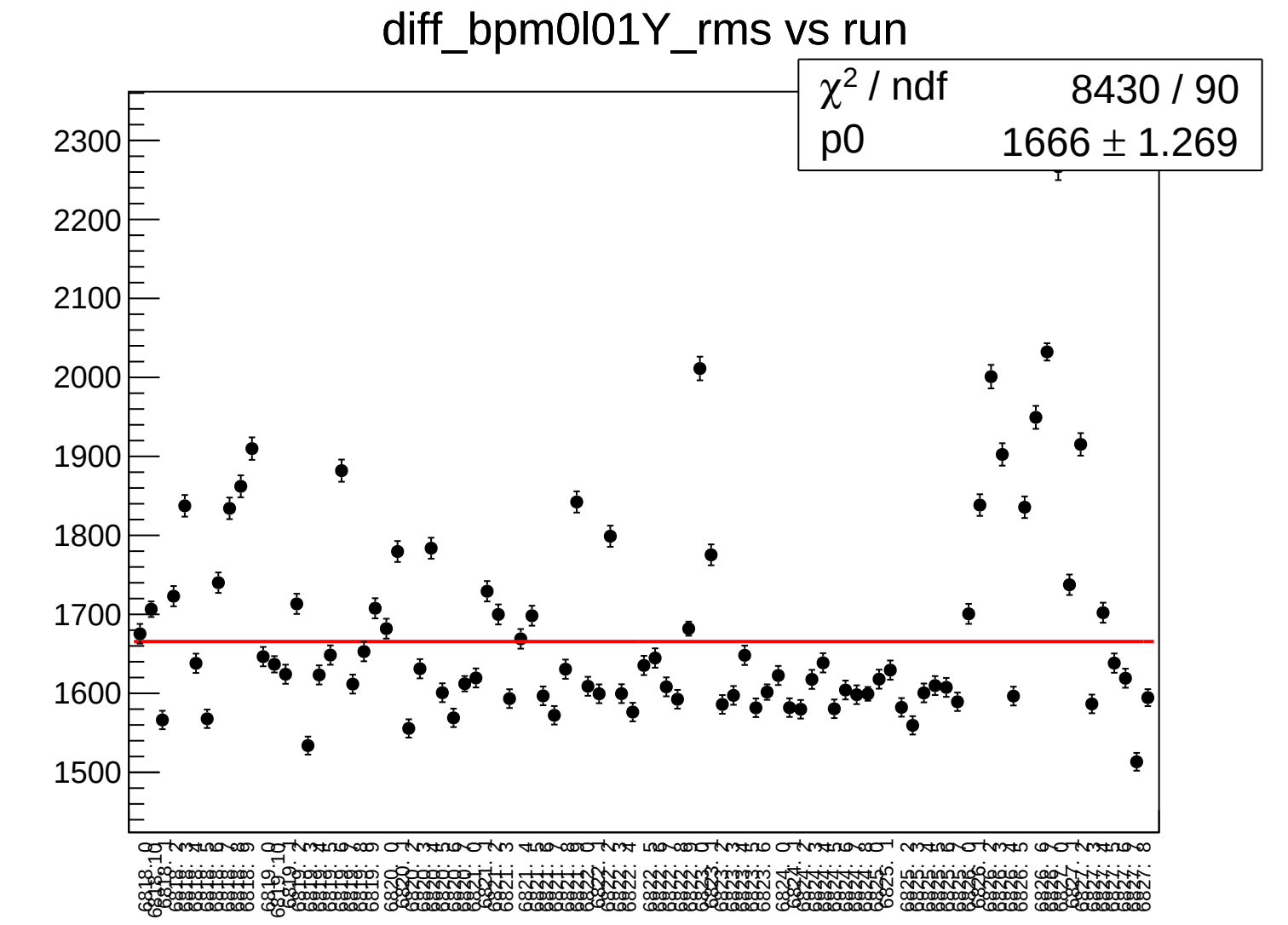

diff_bpm0l01X_mean vs run
χ² / ndf 77.19 / 90
p0 −18.55 ± 3.195
pull
Entries 91
Mean 357.2
Std Dev 341.2

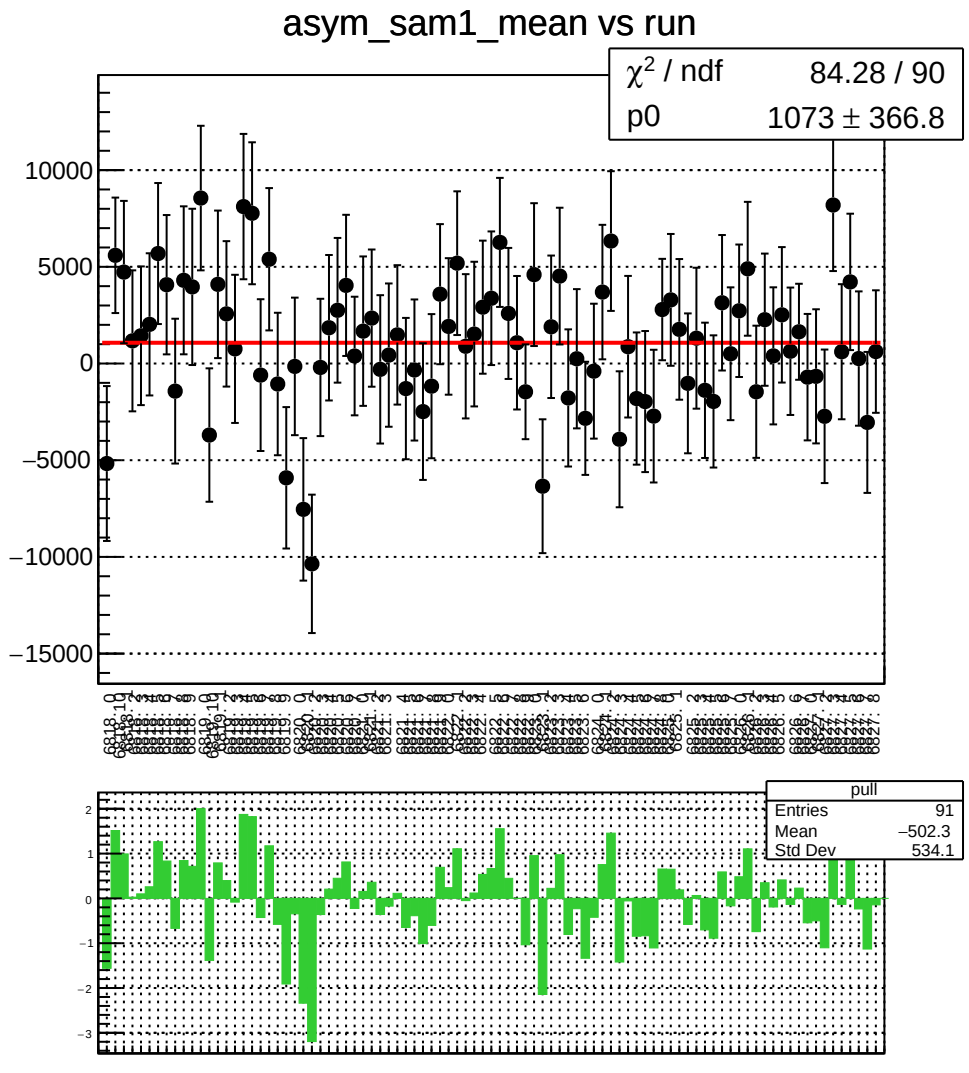

pull1D
Entries 91
Mean 0.002988
Std Dev 0.921

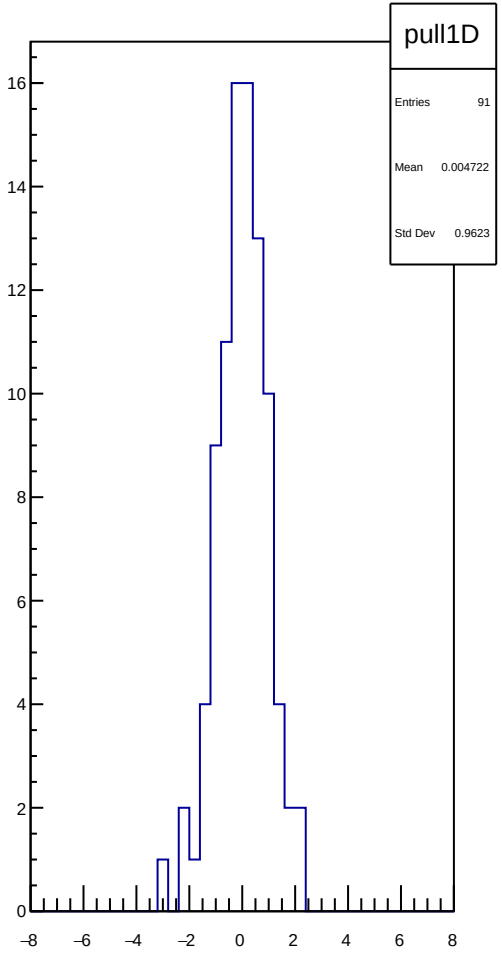

diff_bpm0l01X_rms vs run
χ² / ndf 225 / 90
p0 2971 ± 2.259
3050
3000
2950
2900
2850

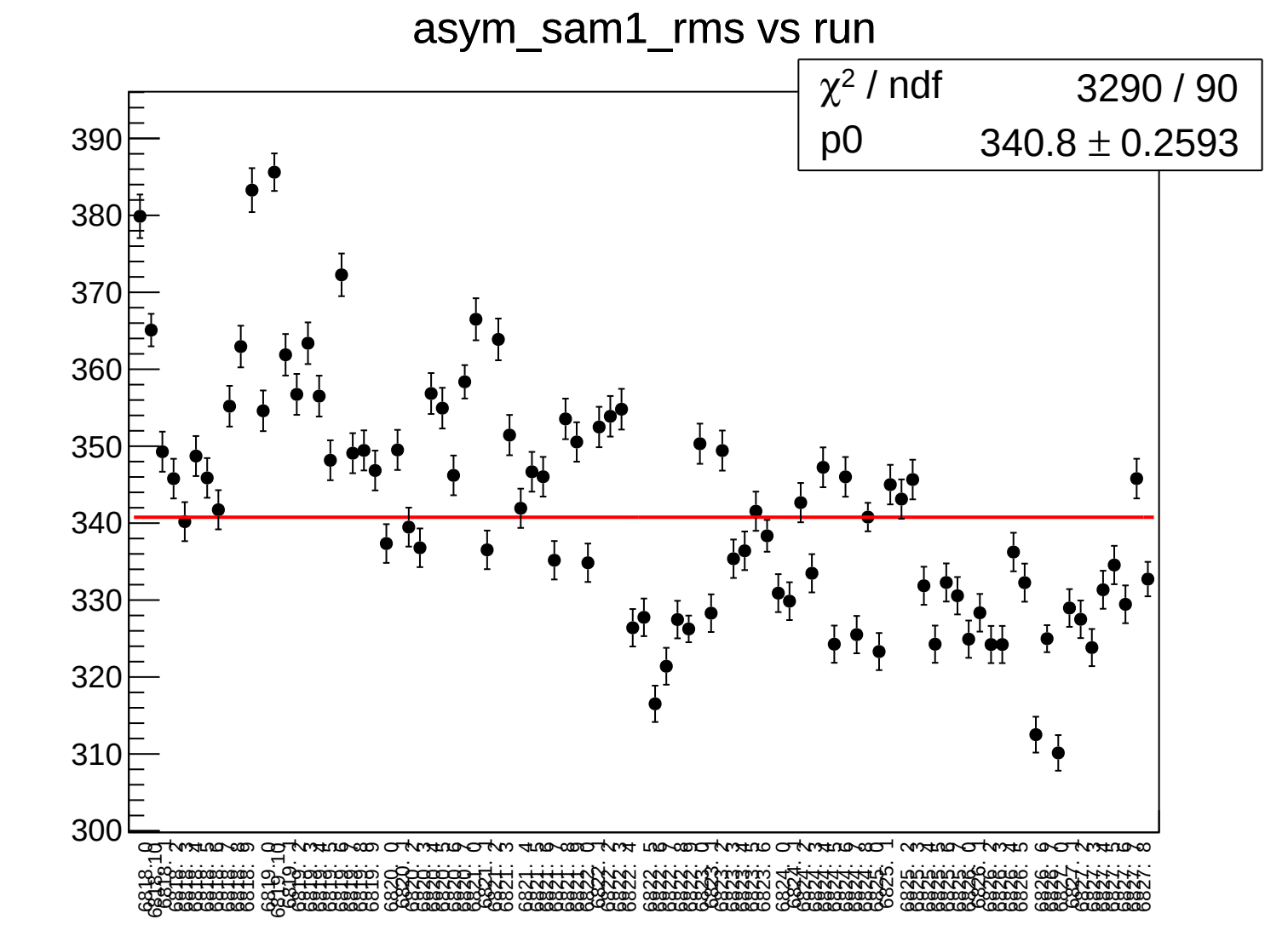

diff_bpm0l01Y_mean vs run
χ² / ndf 106 / 90
p0 42.82 ± 1.795
pull
Entries 91
Mean −99.27
Std Dev 129.7

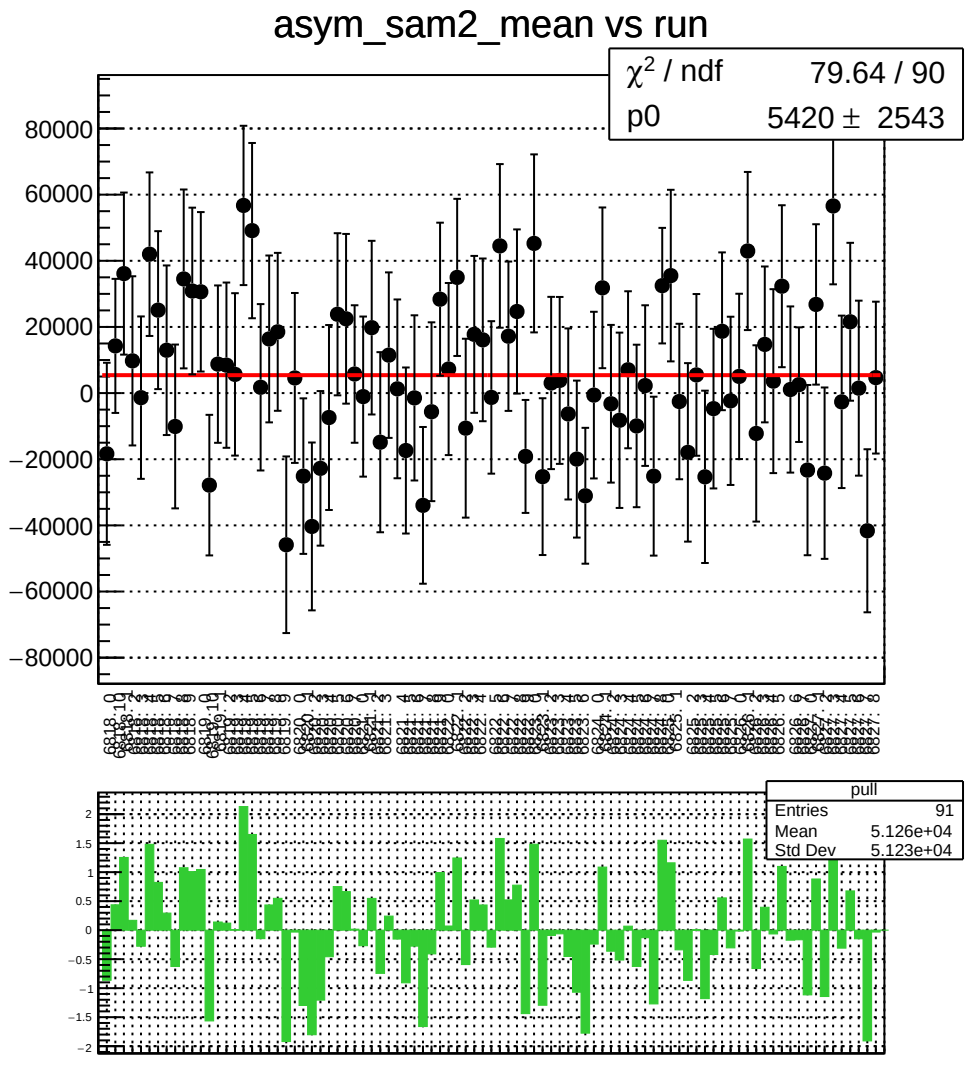

pull1D
Entries 91
Mean −0.02461
Std Dev 1.079

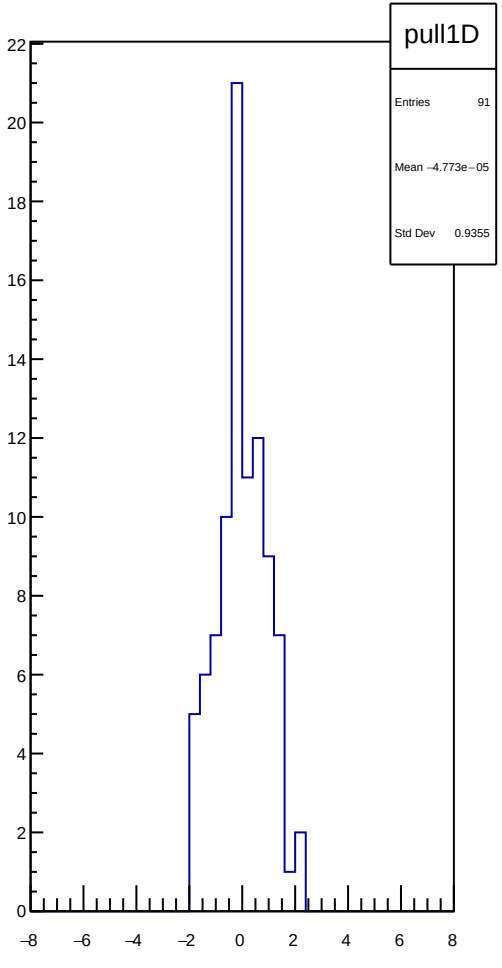

diff_bpm0l01Y_rms vs run
χ^2 / ndf 8430 / 90
p0 1666 ± 1.269
2300
2200
2100
2000
1900
1800
1700
1600
1500

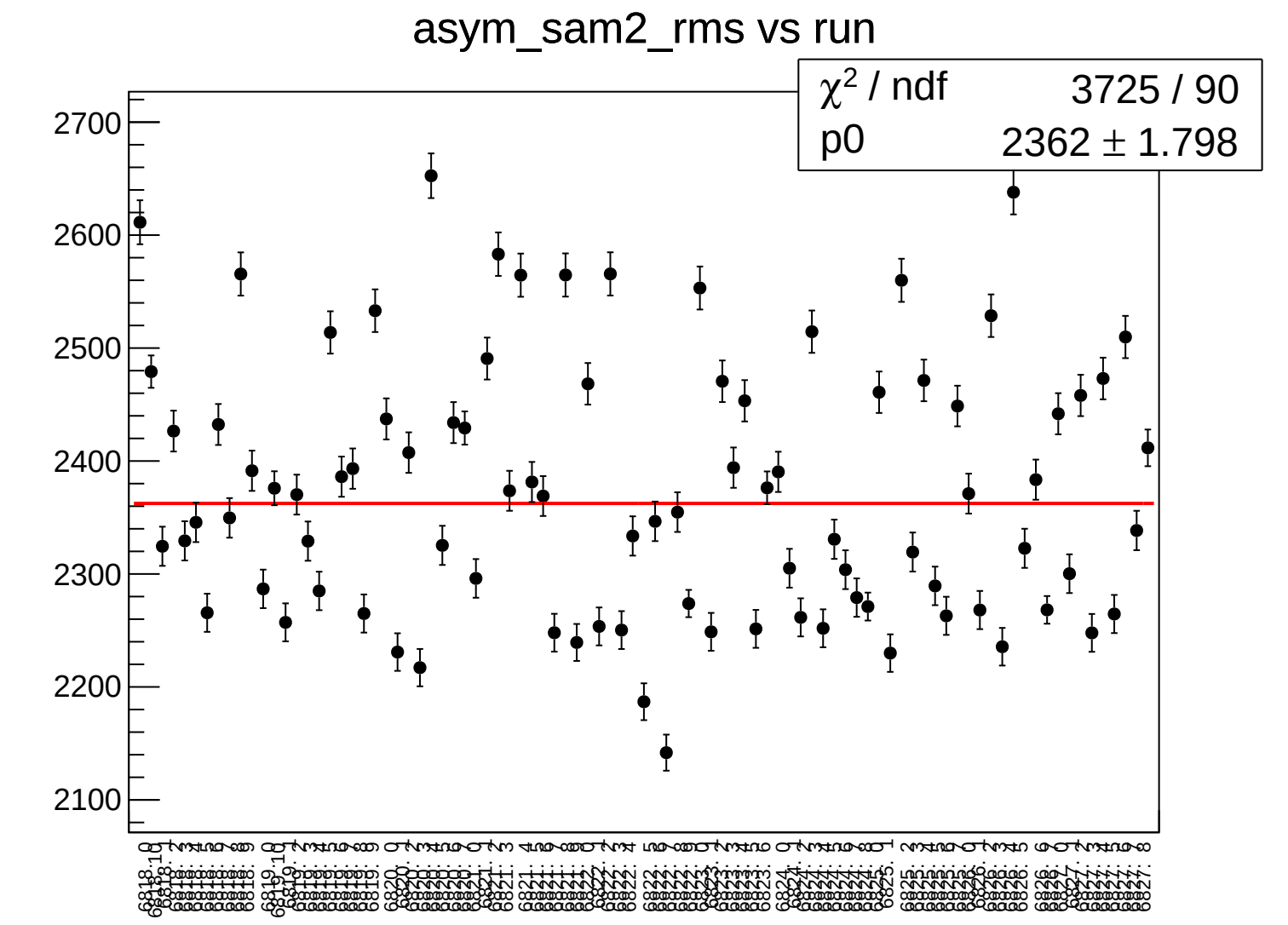

asym_sam1_mean vs run
χ² / ndf 84.28 / 90
p0 1073 ± 366.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −502.3
Std Dev 534.1
2
1
0
−1
−2
−3

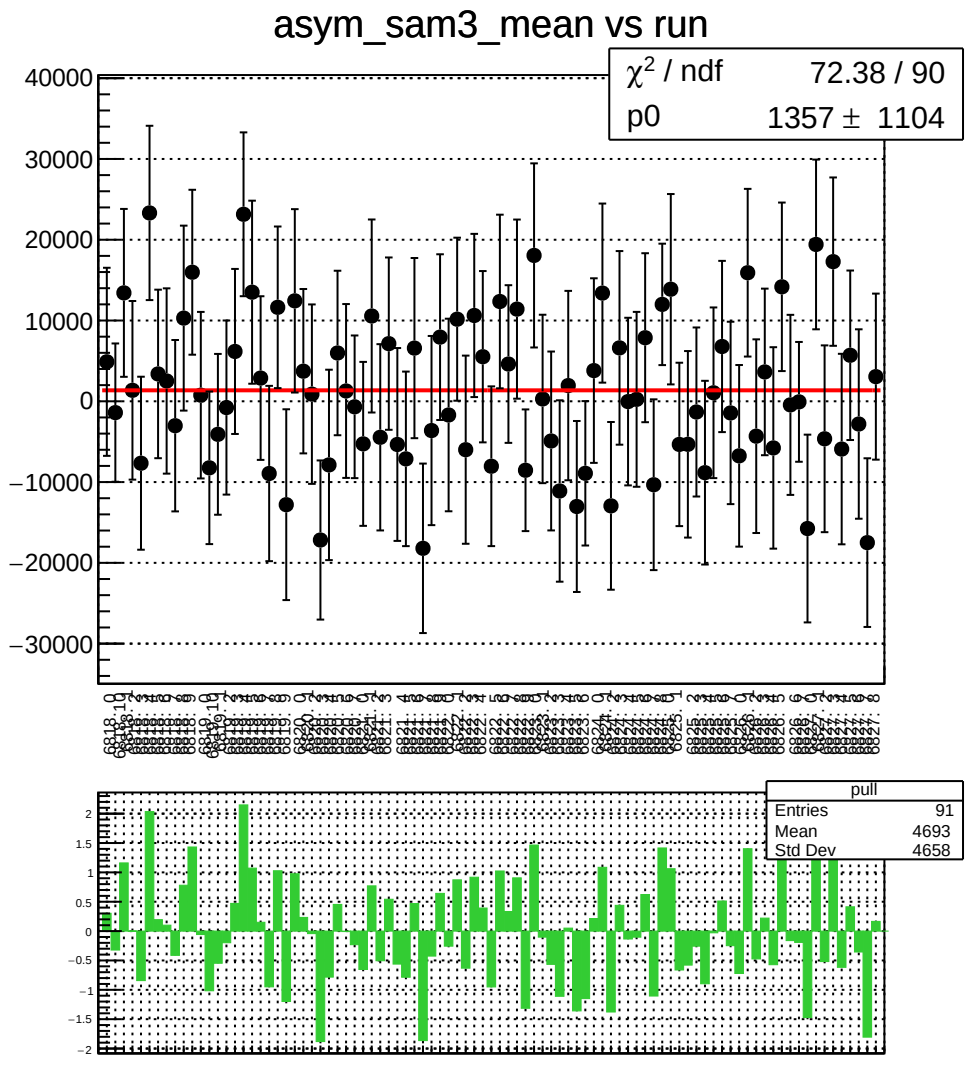

pull1D
Entries 91
Mean 0.004722
Std Dev 0.9623
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

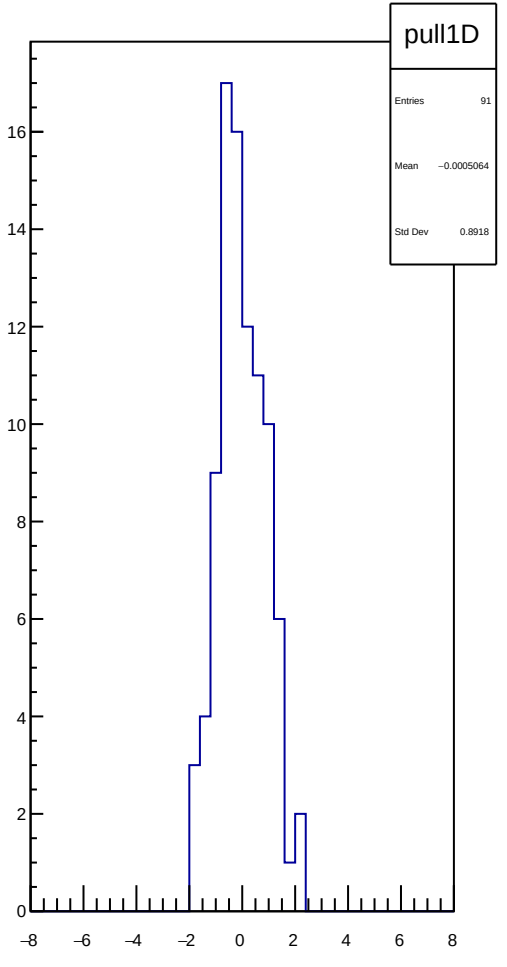

asym_sam1_rms vs run
χ² / ndf 3290 / 90
p0 340.8 ± 0.2593
390
380
370
360
350
340
330
320
310
300

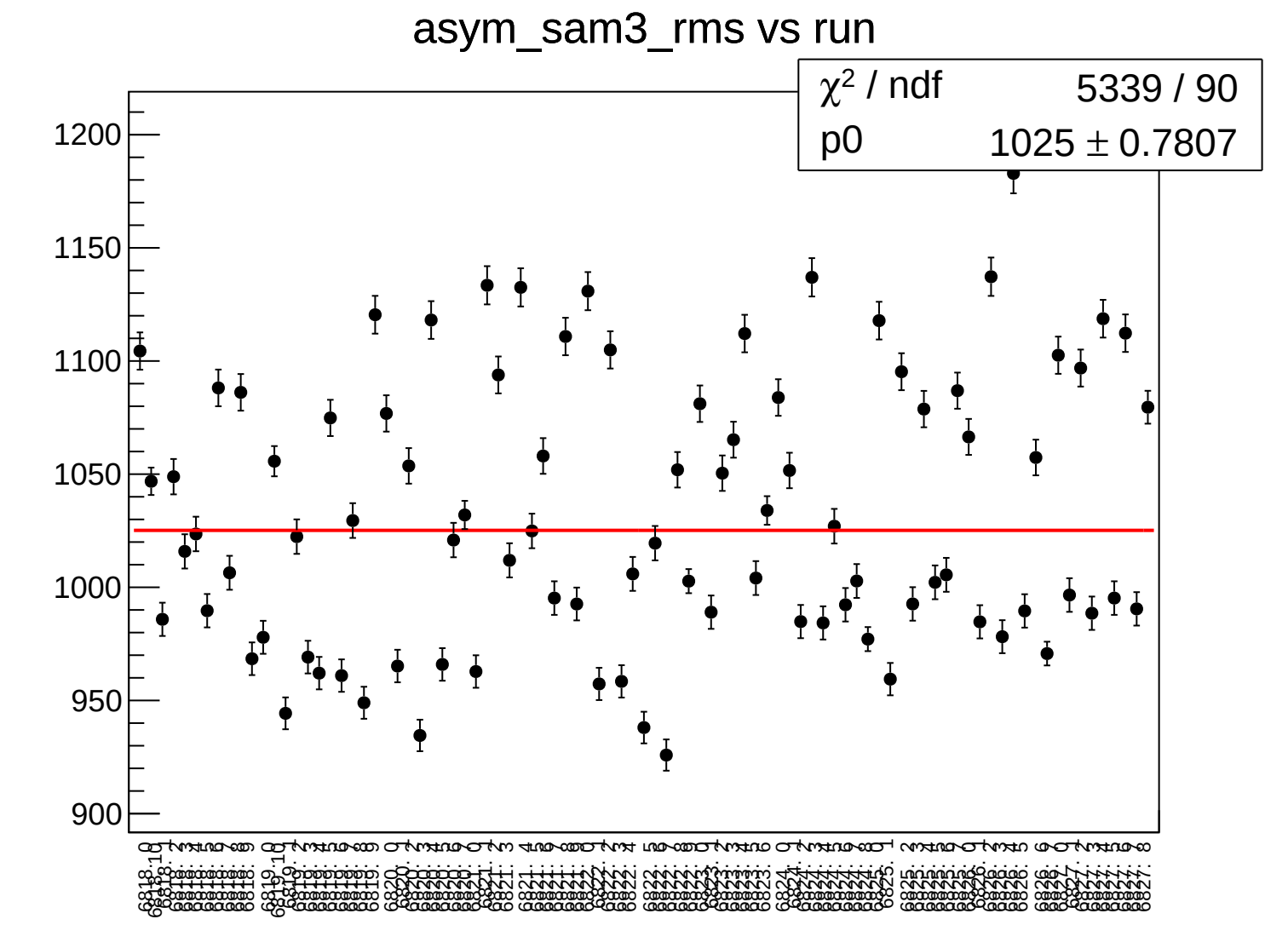

asym_sam2_mean vs run
χ² / ndf 79.64 / 90
p0 5420 ± 2543
pull
Entries 91
Mean 5.126e+04
Std Dev 5.123e+04

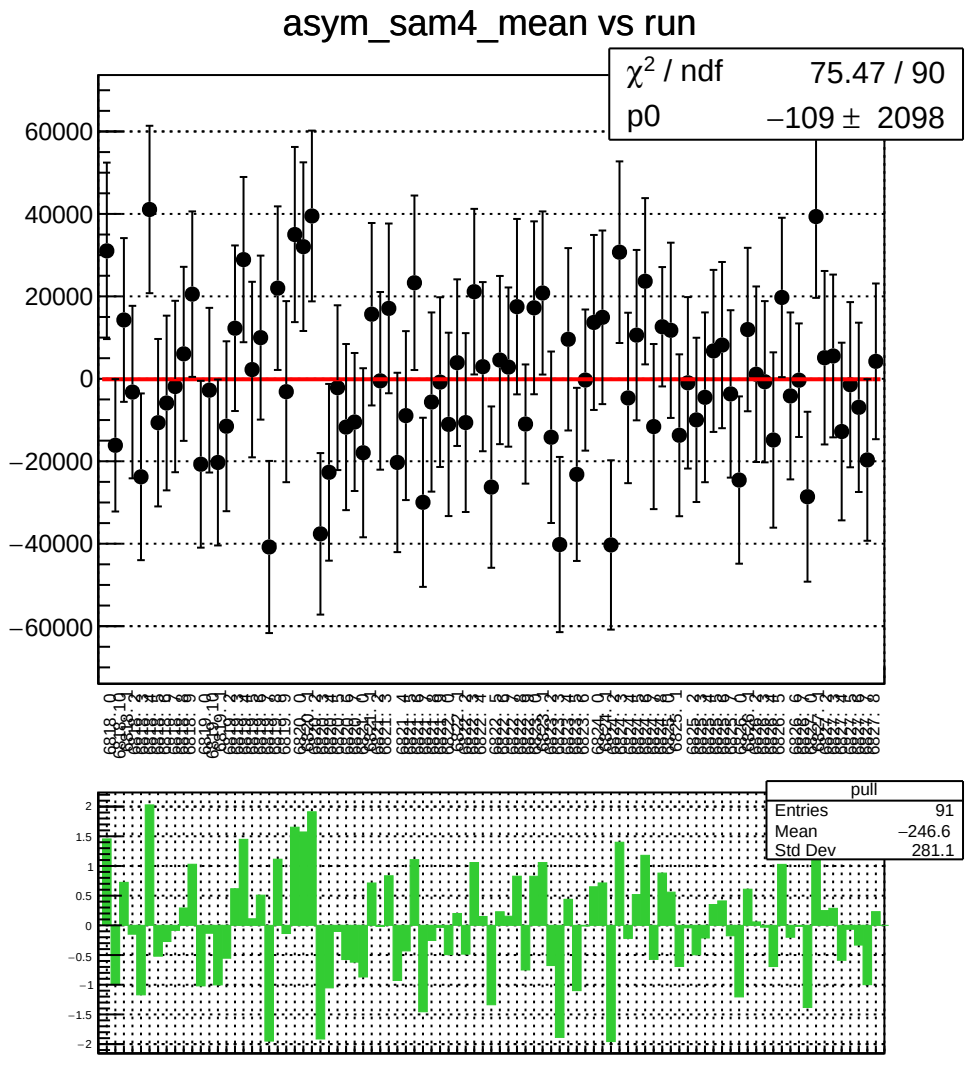

pull1D
Entries 91
Mean −4.773e−05
Std Dev 0.9355

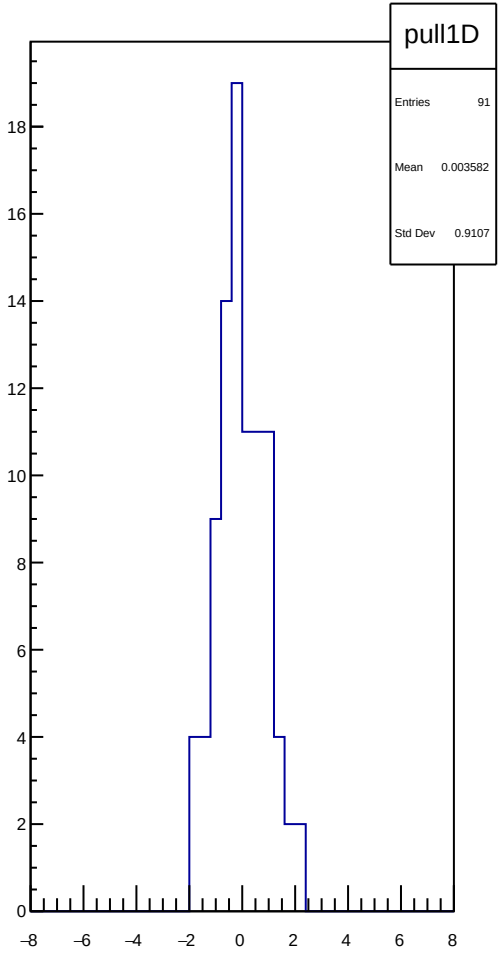

asym_sam2_rms vs run
χ² / ndf 3725 / 90
p0 2362 ± 1.798
2700
2600
2500
2400
2300
2200
2100

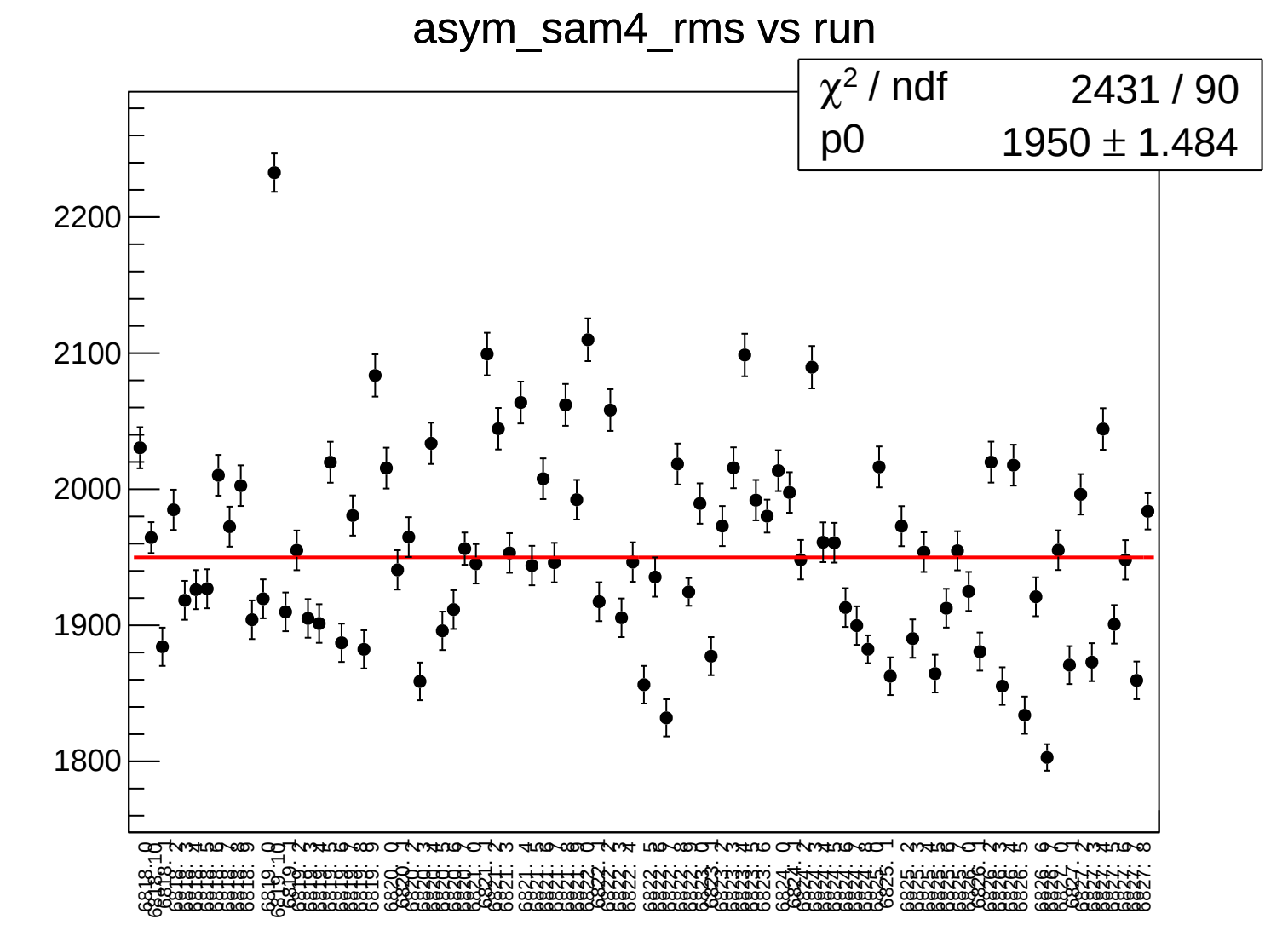

asym_sam3_mean vs run
χ² / ndf 72.38 / 90
p0 1357 ± 1104
pull
Entries 91
Mean 4693
Std Dev 4658

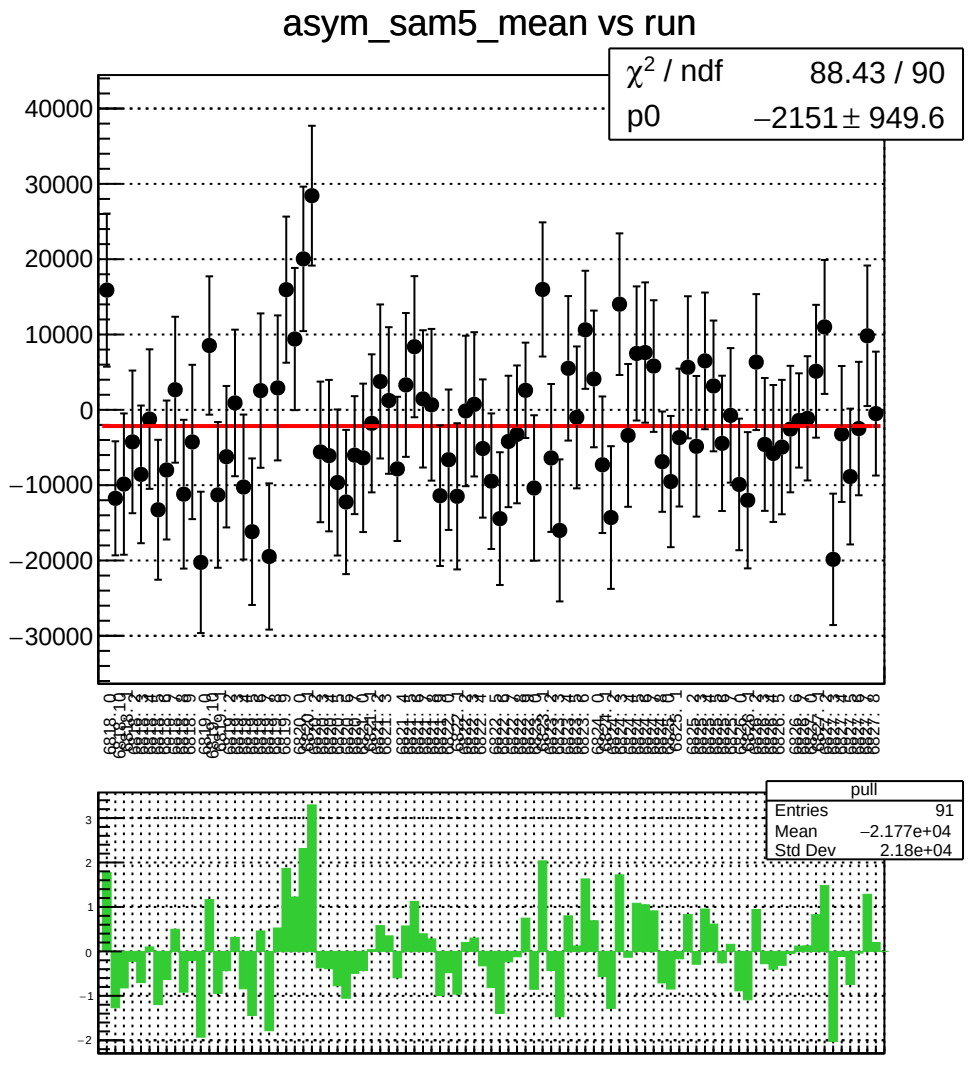

pull1D
Entries 91
Mean −0.0005064
Std Dev 0.8918

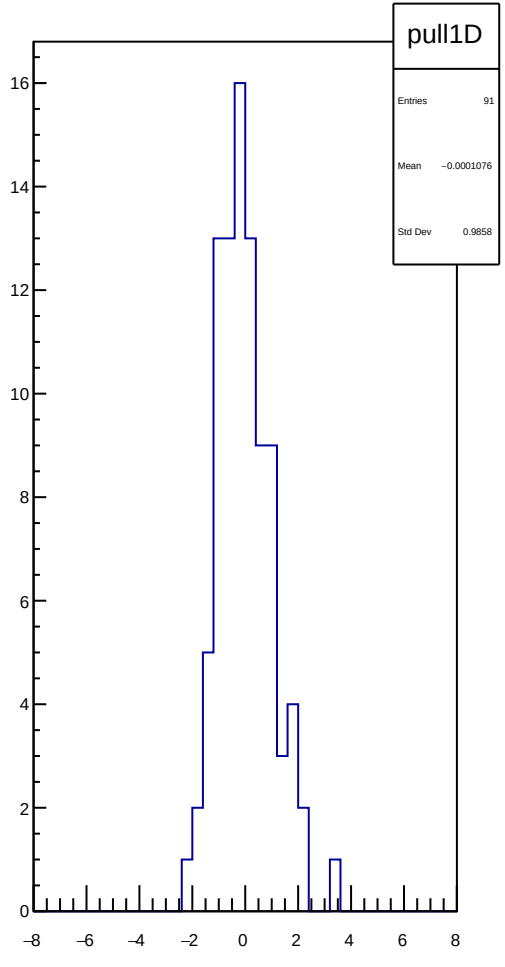

asym_sam3_rms vs run
χ² / ndf 5339 / 90
p0 1025 ± 0.7807
1200
1150
1100
1050
1000
950
900

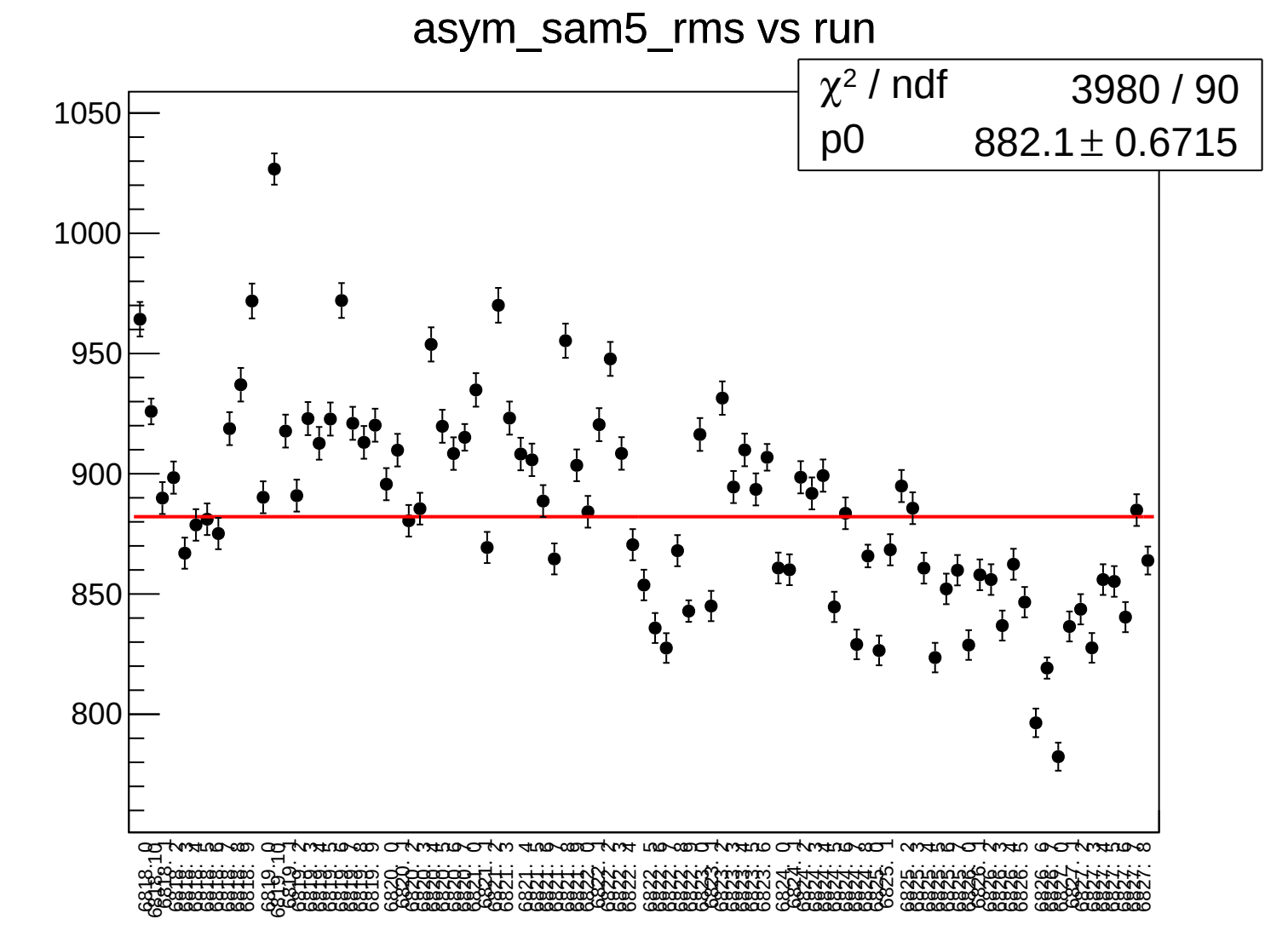

asym_sam4_mean vs run
χ² / ndf 75.47 / 90
p0 −109 ± 2098
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −246.6
Std Dev 281.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

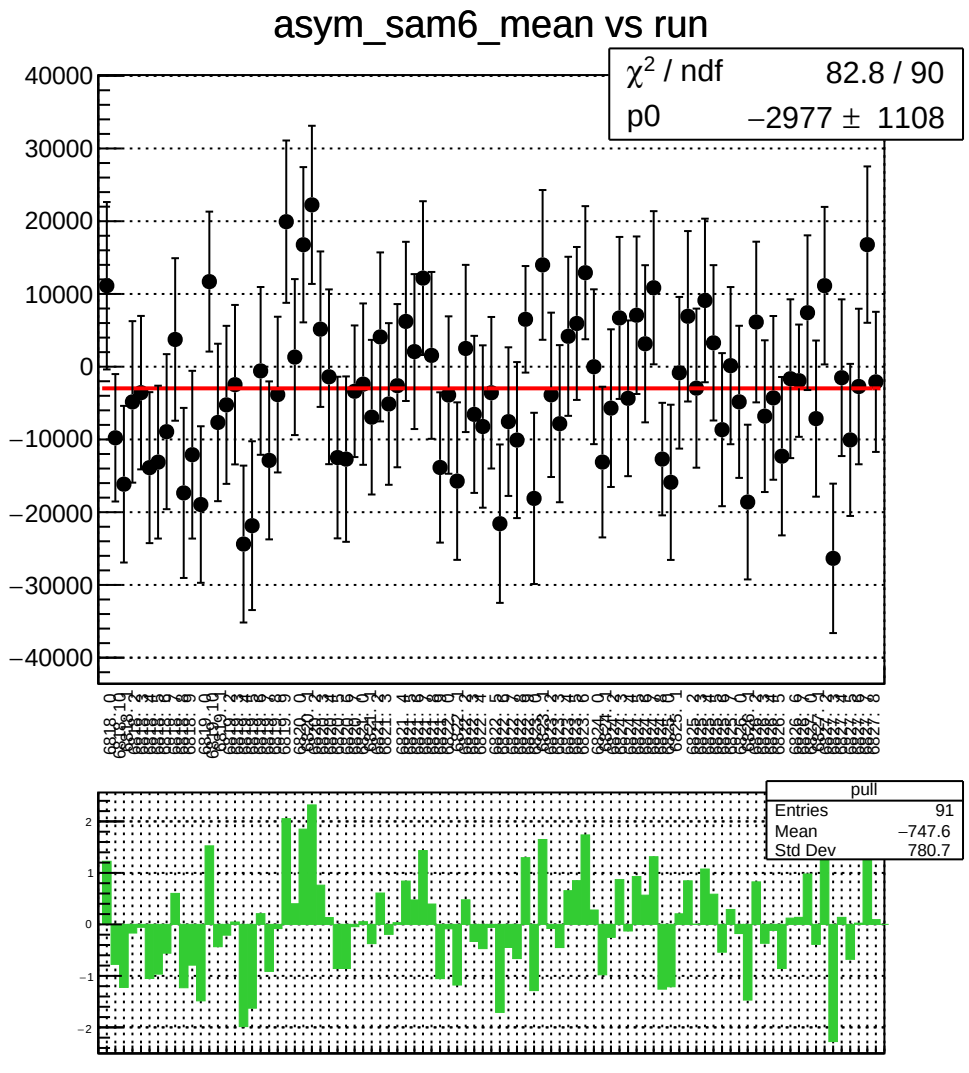

pull1D
Entries 91
Mean 0.003582
Std Dev 0.9107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

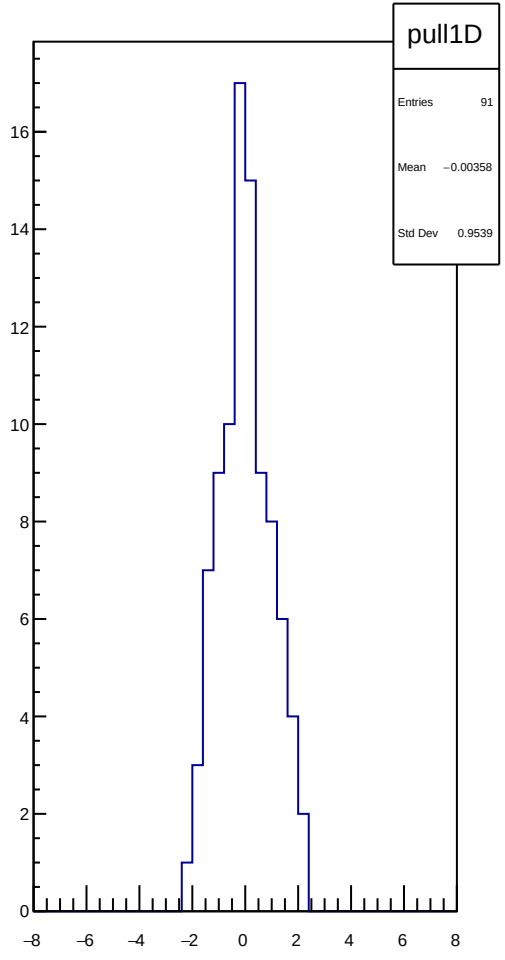

asym_sam4_rms vs run
χ² / ndf 2431 / 90
p0 1950 ± 1.484
2200
2100
2000
1900
1800

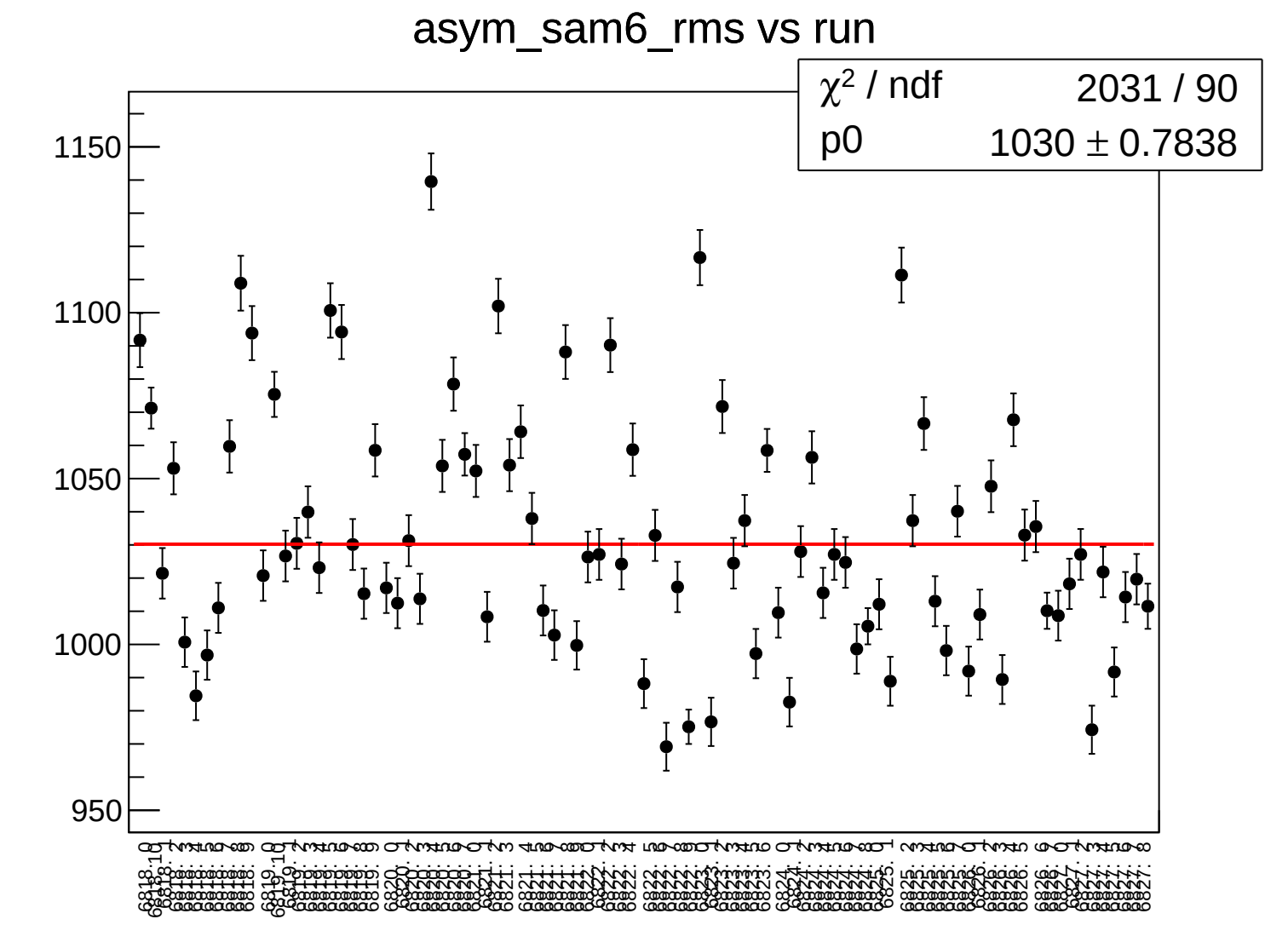

asym_sam5_mean vs run
χ² / ndf 88.43 / 90
p0 −2151 ± 949.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −2.177e+04
Std Dev 2.18e+04
3
2
1
0
−1
−2

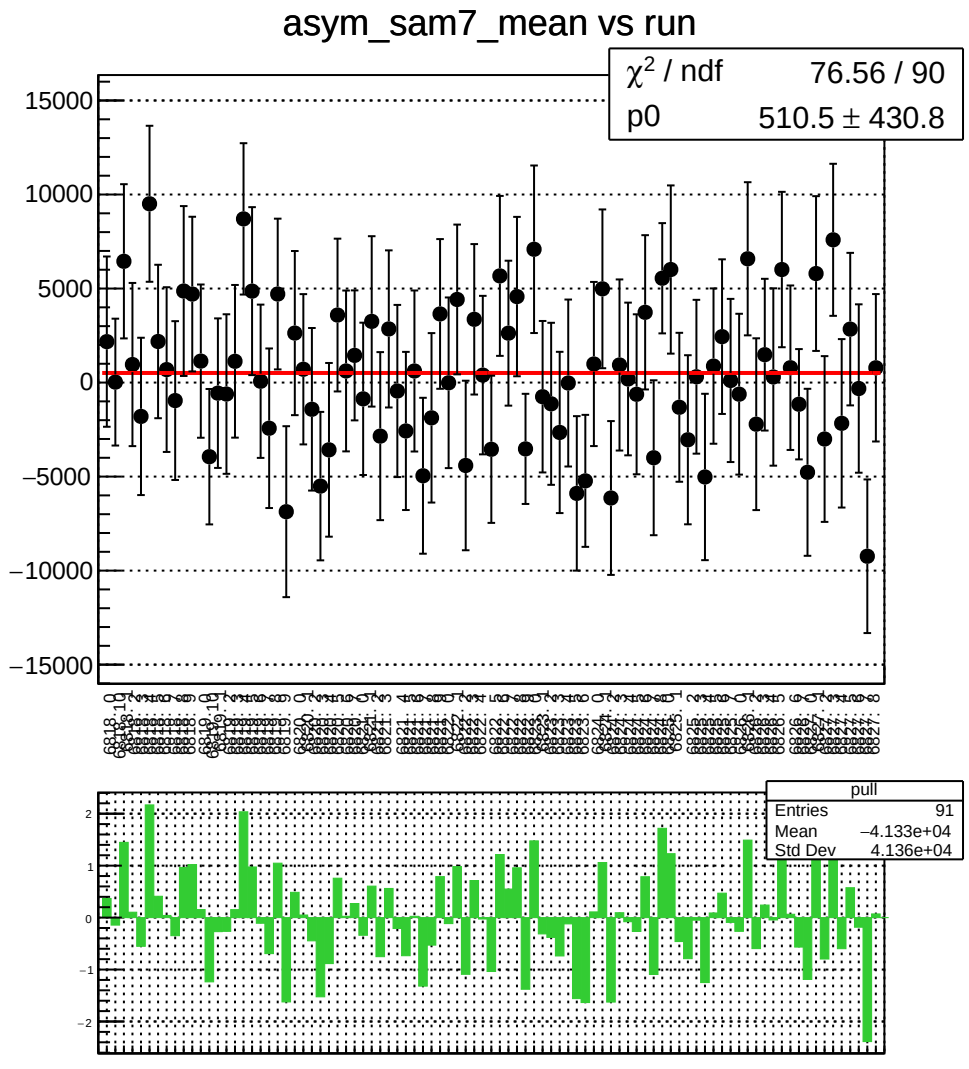

pull1D
Entries 91
Mean −0.0001076
Std Dev 0.9858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

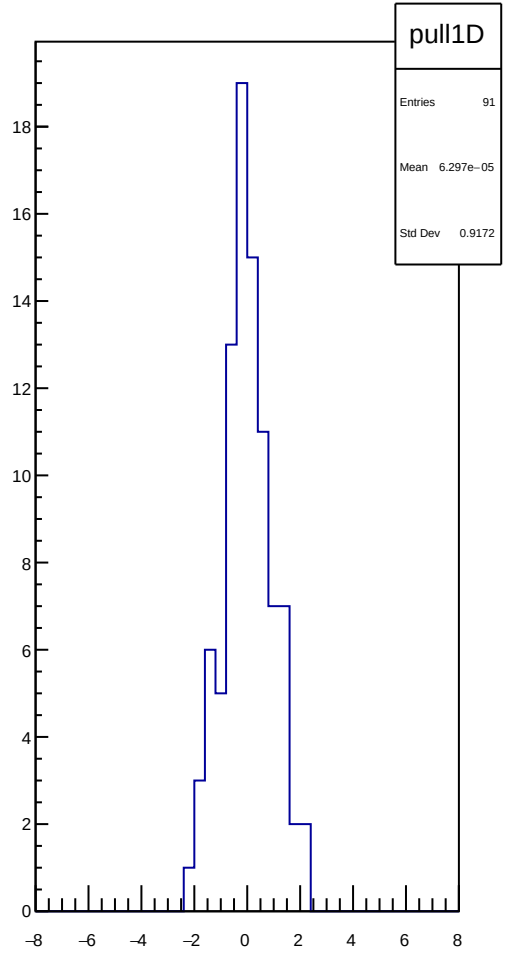

asym_sam5_rms vs run
χ² / ndf 3980 / 90
p0 882.1 ± 0.6715
1050
1000
950
900
850
800

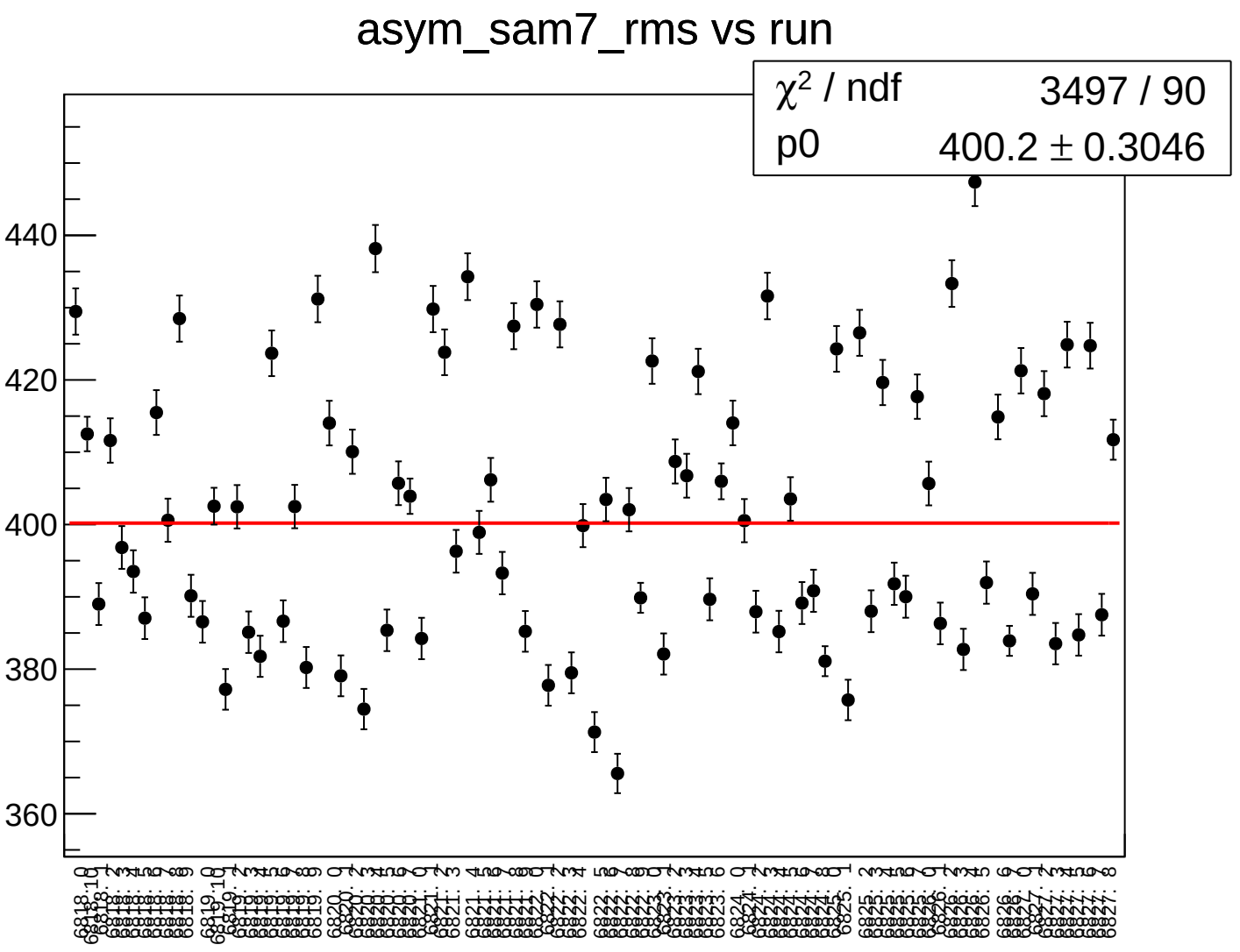

asym_sam6_mean vs run
χ² / ndf 82.8 / 90
p0 −2977 ± 1108
pull
Entries 91
Mean −747.6
Std Dev 780.7

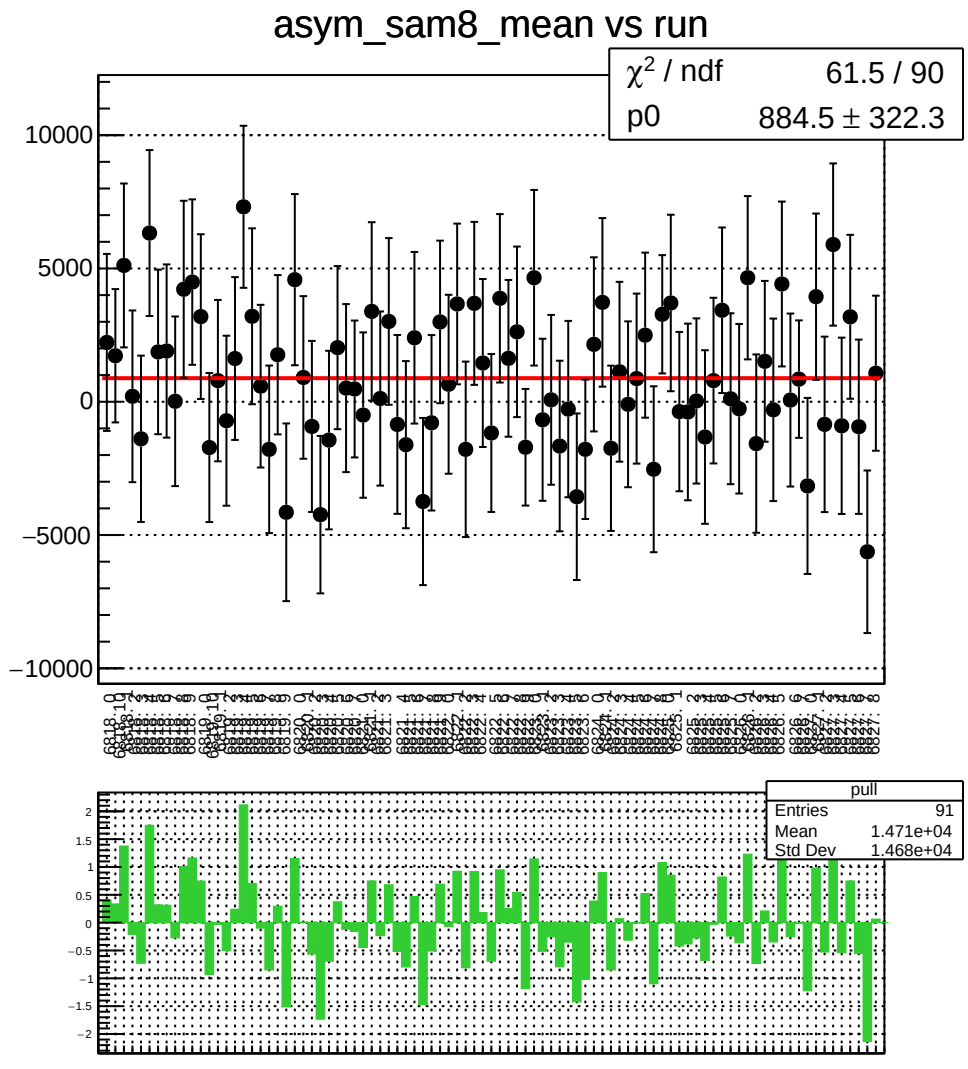

pull1D
Entries 91
Mean −0.00358
Std Dev 0.9539

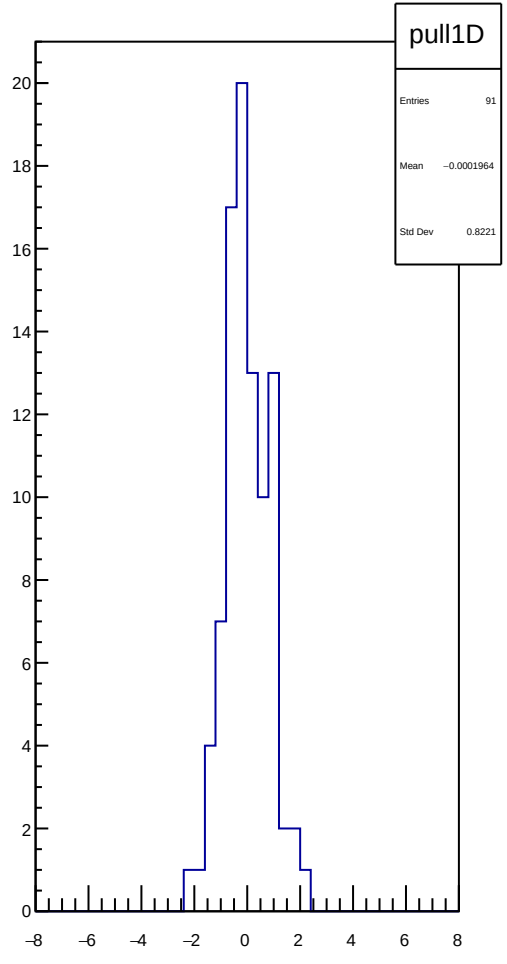

asym_sam6_rms vs run
χ² / ndf 2031 / 90
p0 1030 ± 0.7838
1150
1100
1050
1000
950

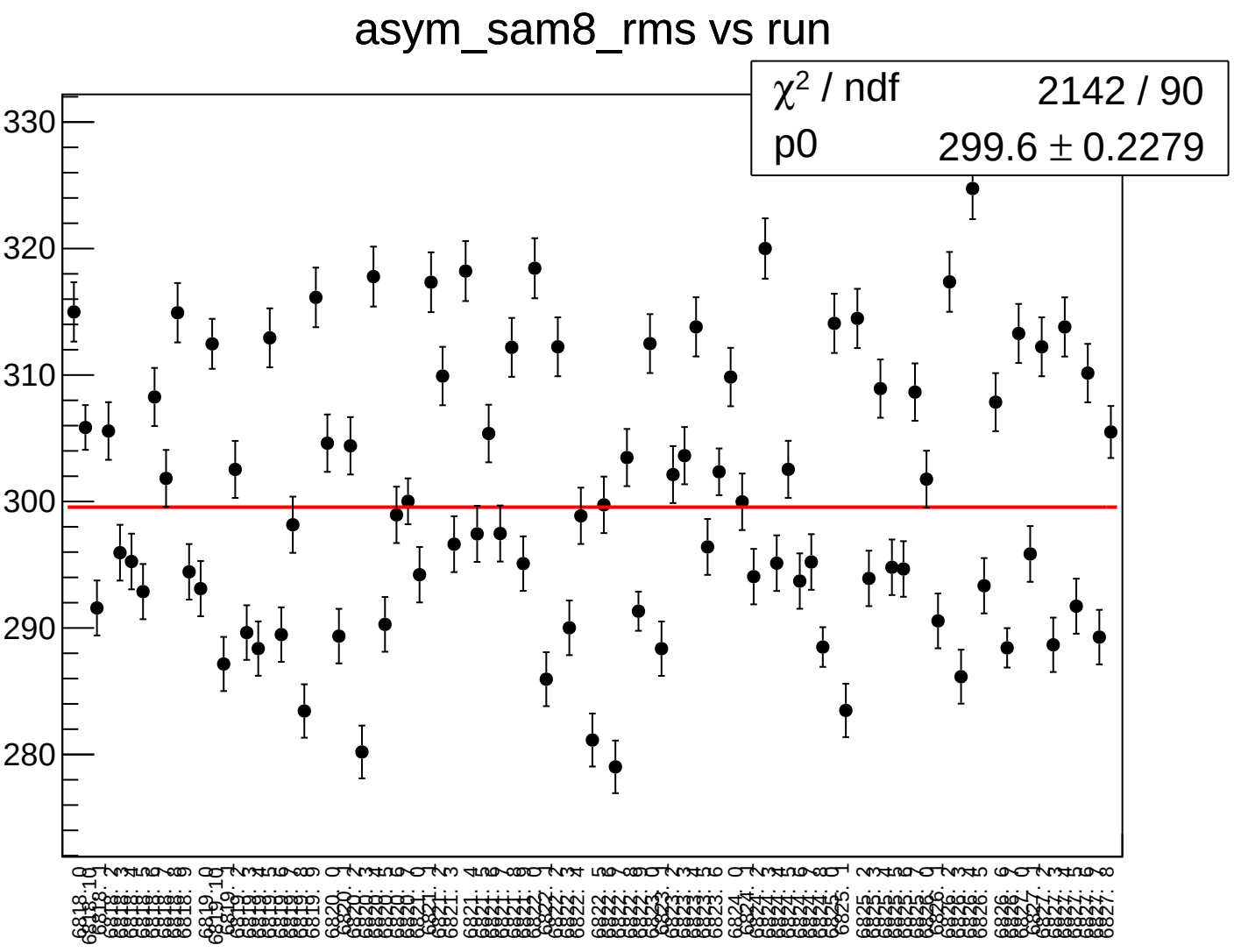

asym_sam7_mean vs run
χ² / ndf 76.56 / 90
p0 510.5 ± 430.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −4.133e+04
Std Dev 4.136e+04
2
1
0
−1
−2

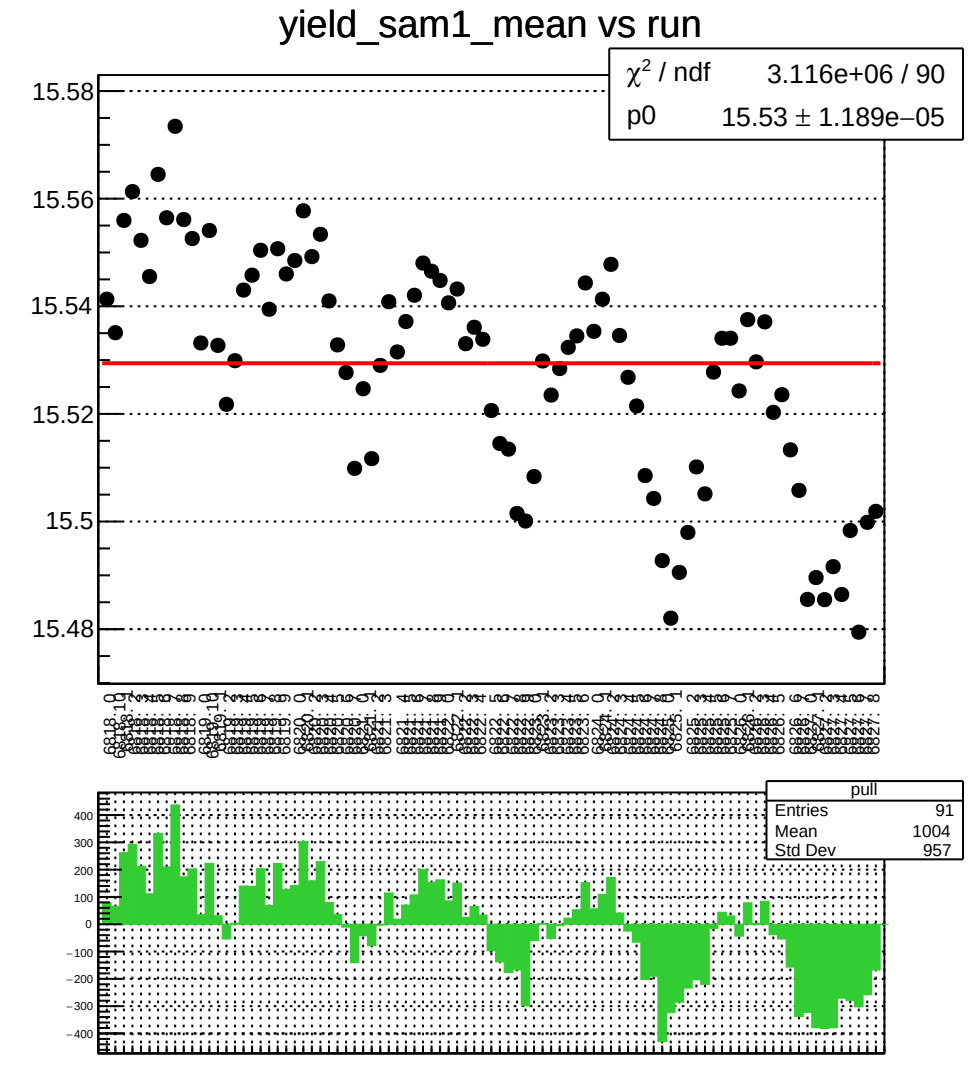

pull1D
Entries 91
Mean 6.297e−05
Std Dev 0.9172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

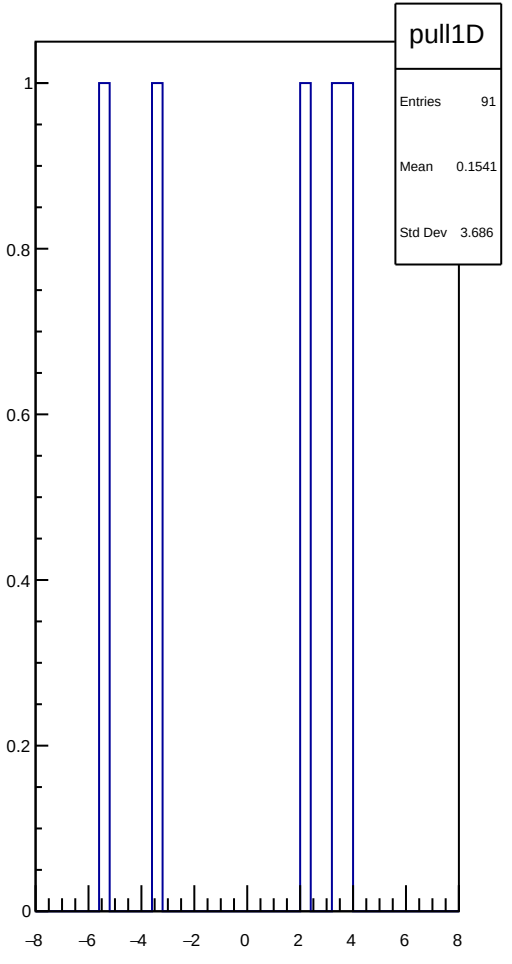

asym_sam7_rms vs run
χ² / ndf 3497 / 90
p0 400.2 ± 0.3046
440
420
400
380
360

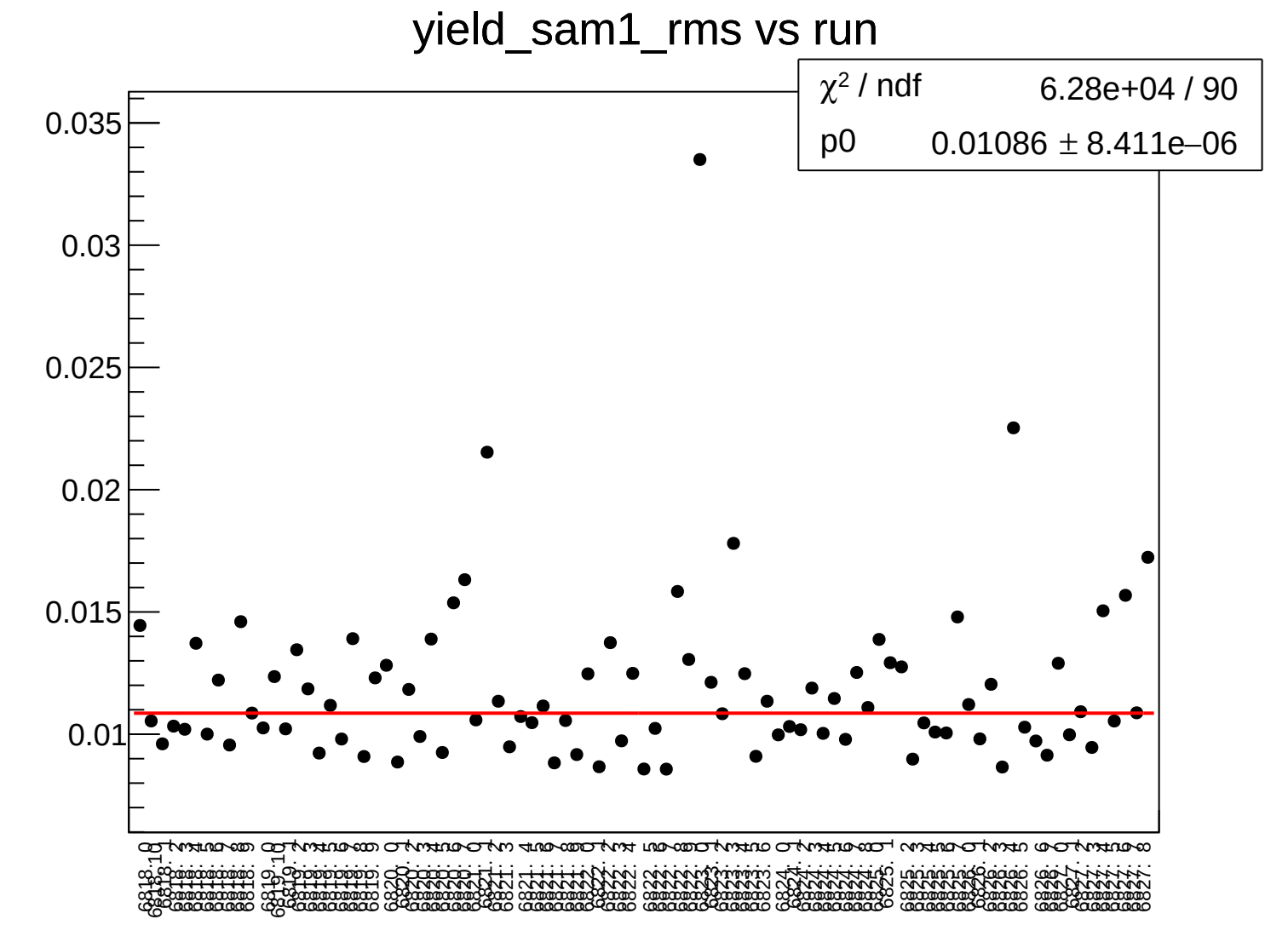

asym_sam8_mean vs run
χ^2 / ndf 61.5 / 90
p0 884.5 ± 322.3
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 1.471e+04
Std Dev 1.468e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

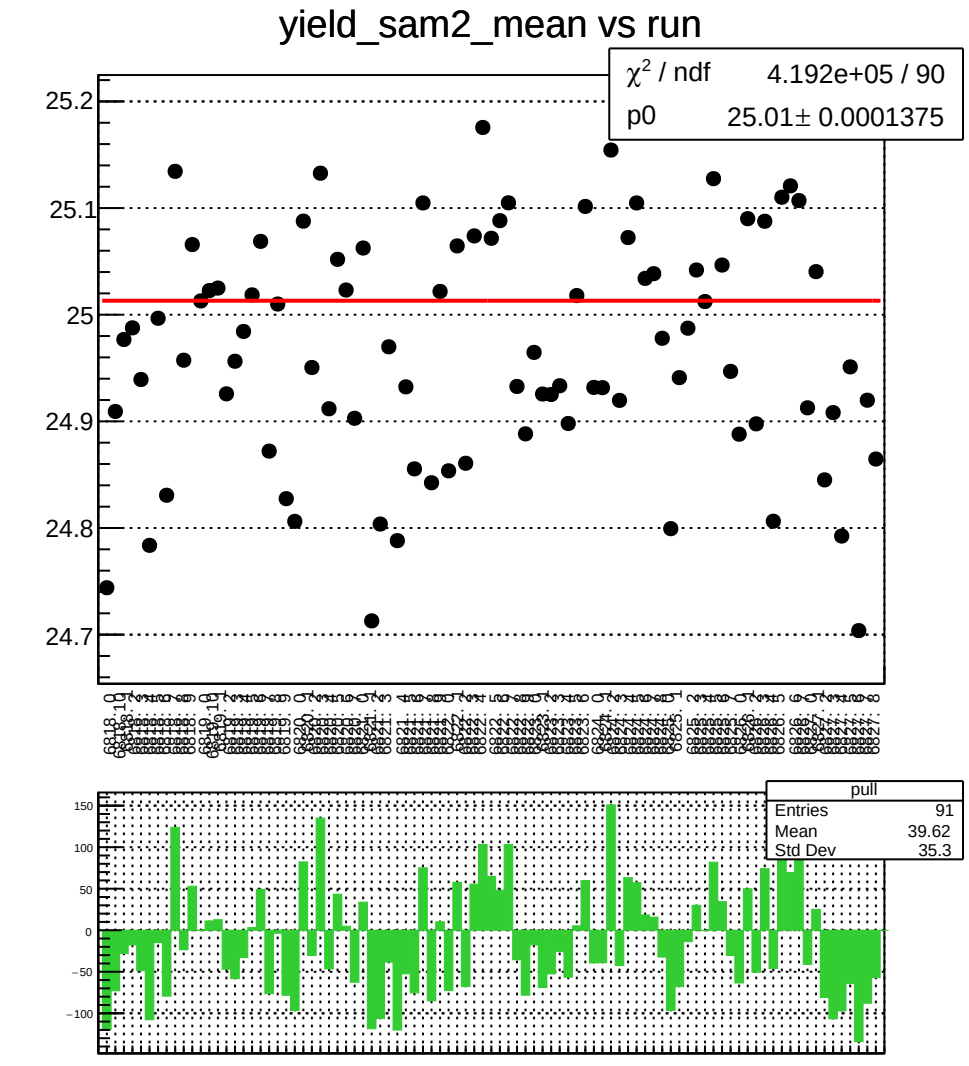

pull1D
Entries 91
Mean −0.0001964
Std Dev 0.8221
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

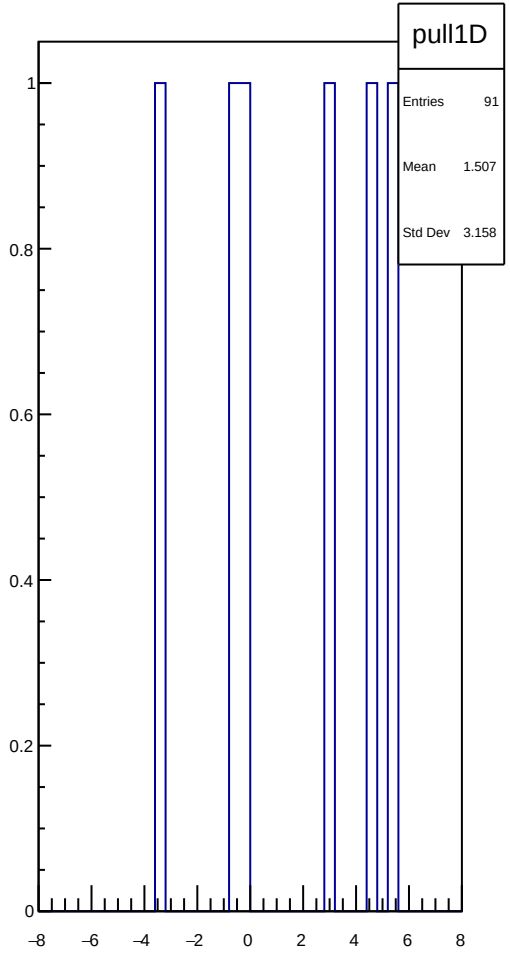

asym_sam8_rms vs run
χ² / ndf 2142 / 90
p0 299.6 ± 0.2279
330
320
310
300
290
280

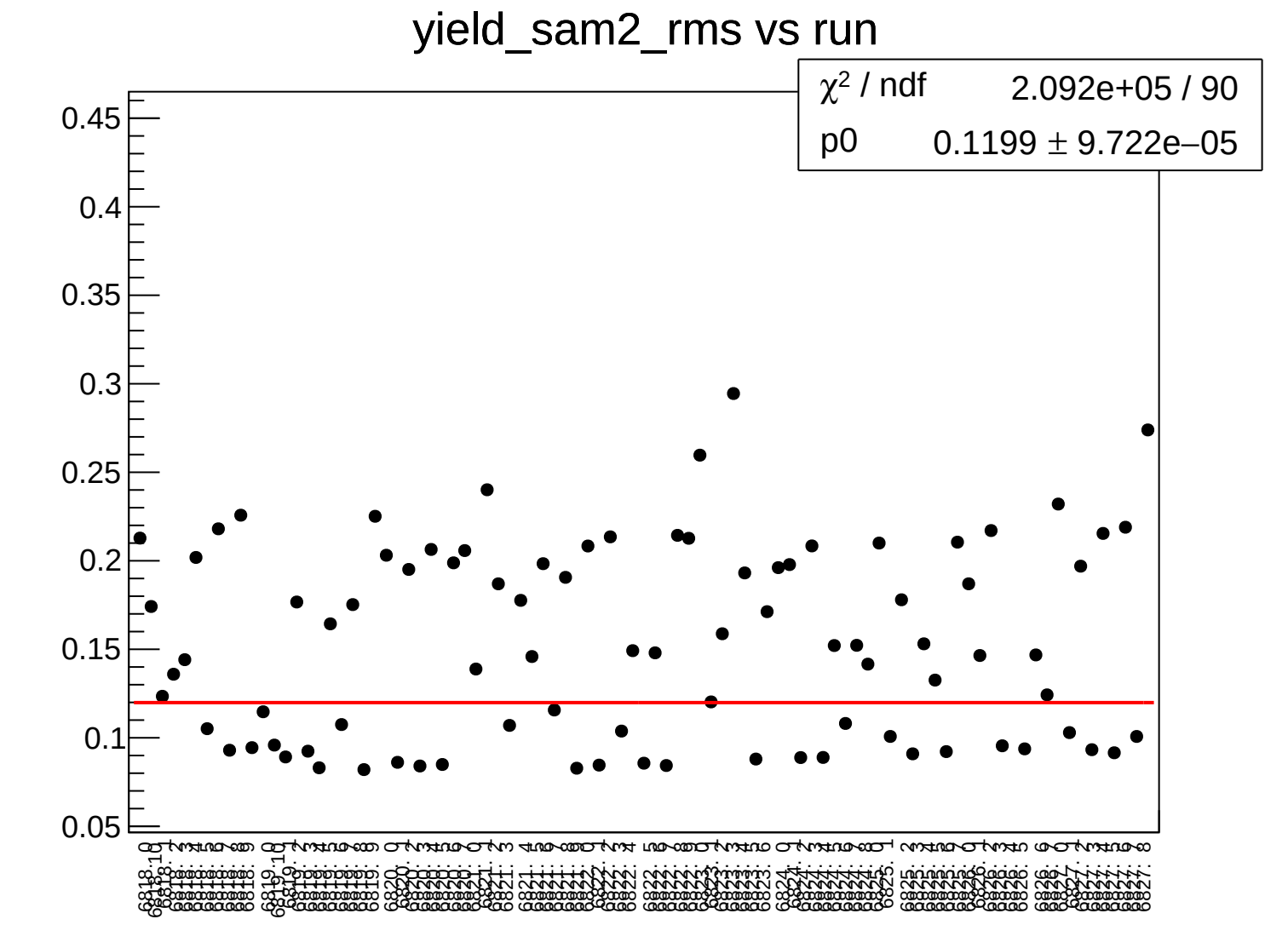

yield_sam1_mean vs run
χ² / ndf 3.116e+06 / 90
p0 15.53 ± 1.189e−05
15.58
15.56
15.54
15.52
15.5
15.48
pull
Entries 91
Mean 1004
Std Dev 957
400
300
200
100
0
−100
−200
−300
−400

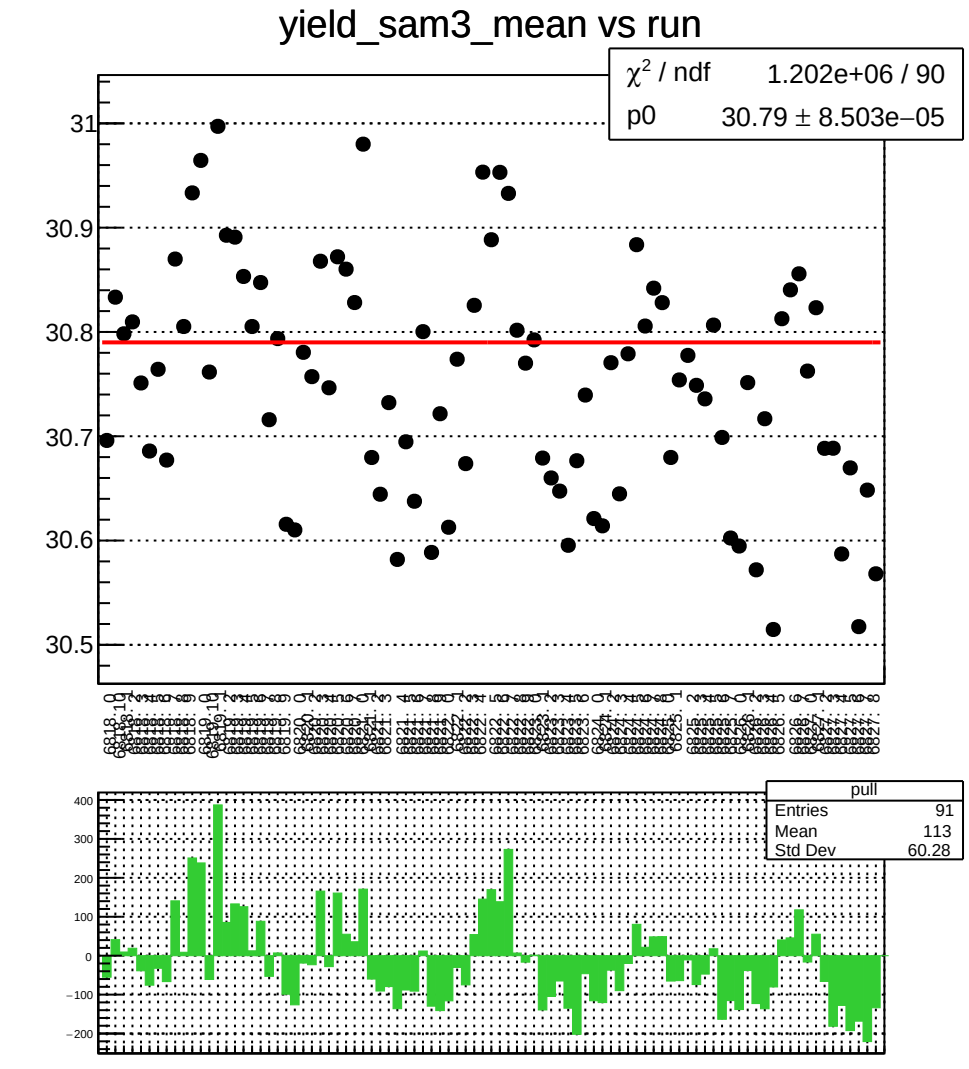

pull1D
Entries 91
Mean 0.1541
Std Dev 3.686
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

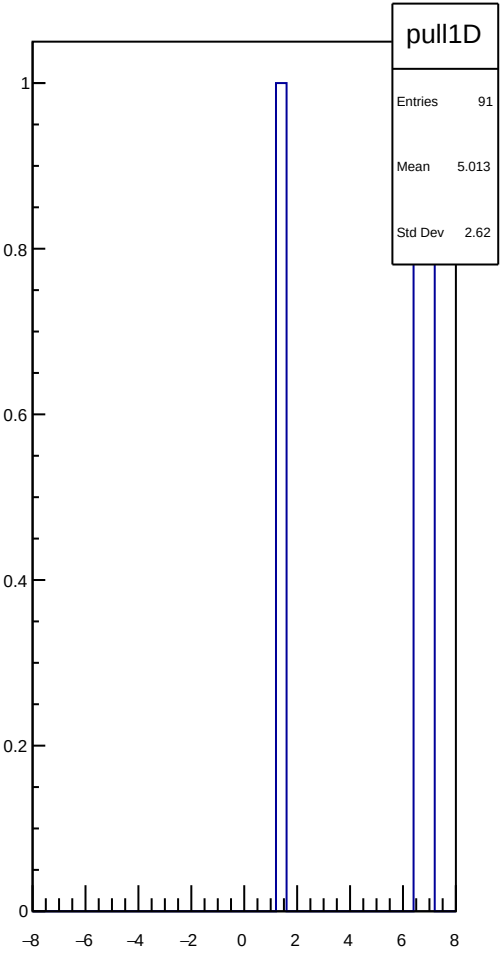

yield_sam1_rms vs run
χ² / ndf 6.28e+04 / 90
p0 0.01086 ± 8.411e–06
0.035
0.03
0.025
0.02
0.015
0.01

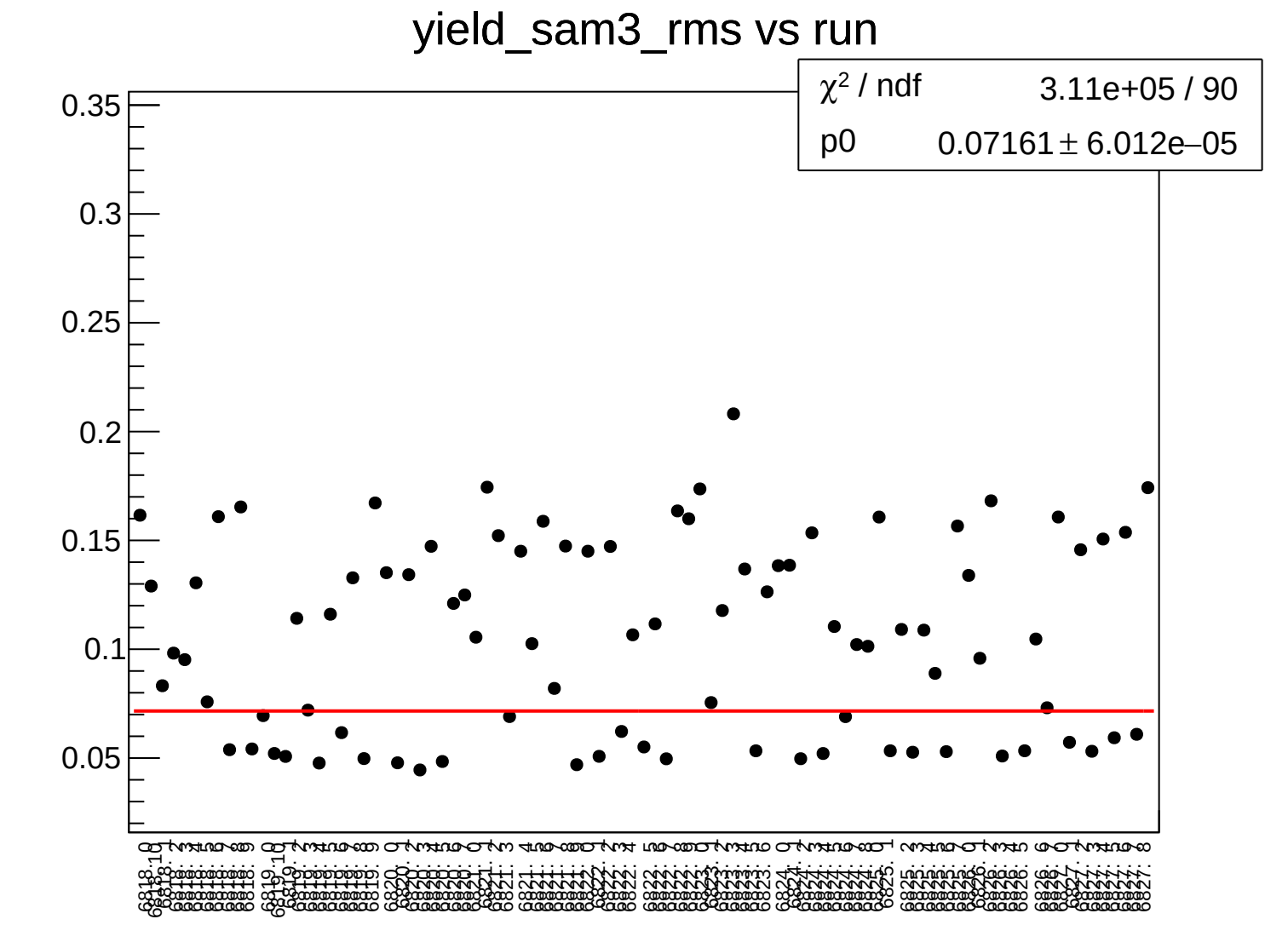

yield_sam2_mean vs run
χ² / ndf 4.192e+05 / 90
p0 25.01± 0.0001375
25.2
25.1
25
24.9
24.8
24.7
pull
Entries 91
Mean 39.62
Std Dev 35.3
150
100
50
0
−50
−100

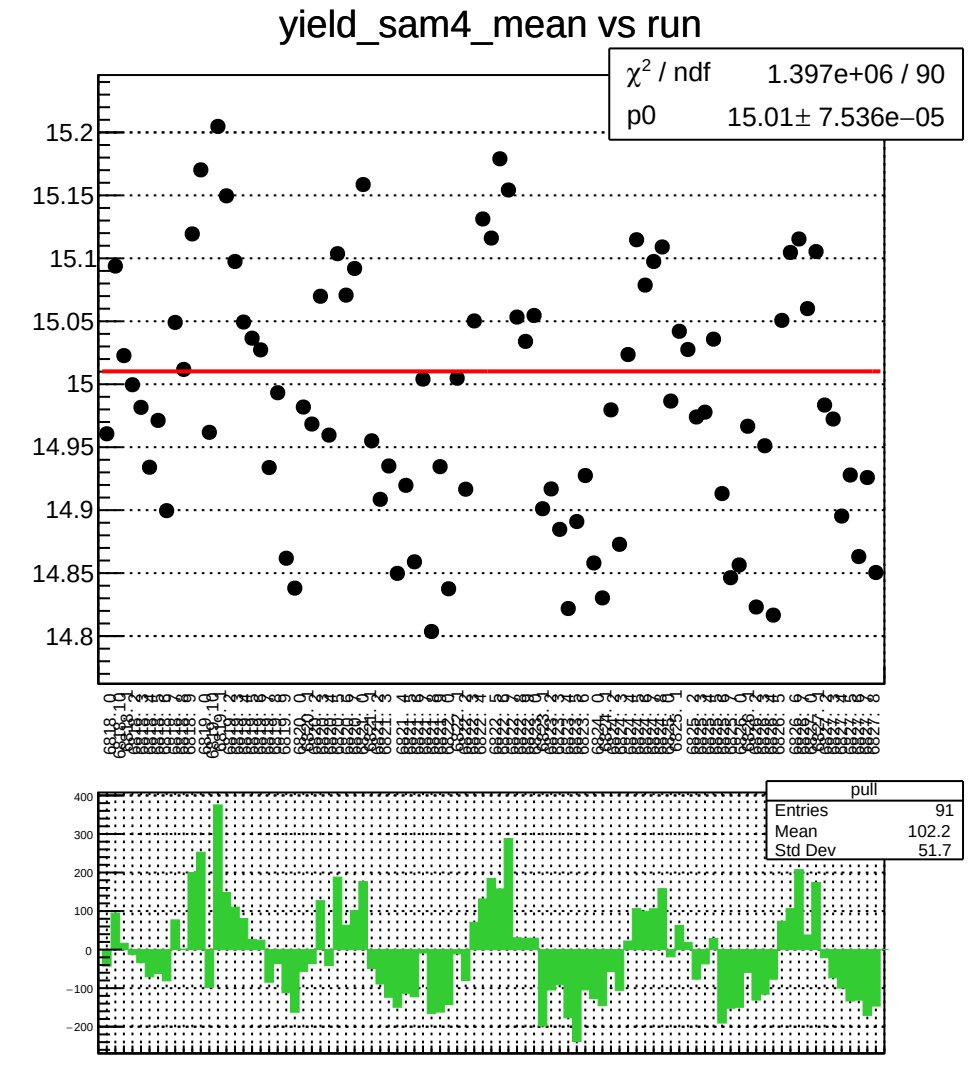

pull1D
Entries 91
Mean 1.507
Std Dev 3.158
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

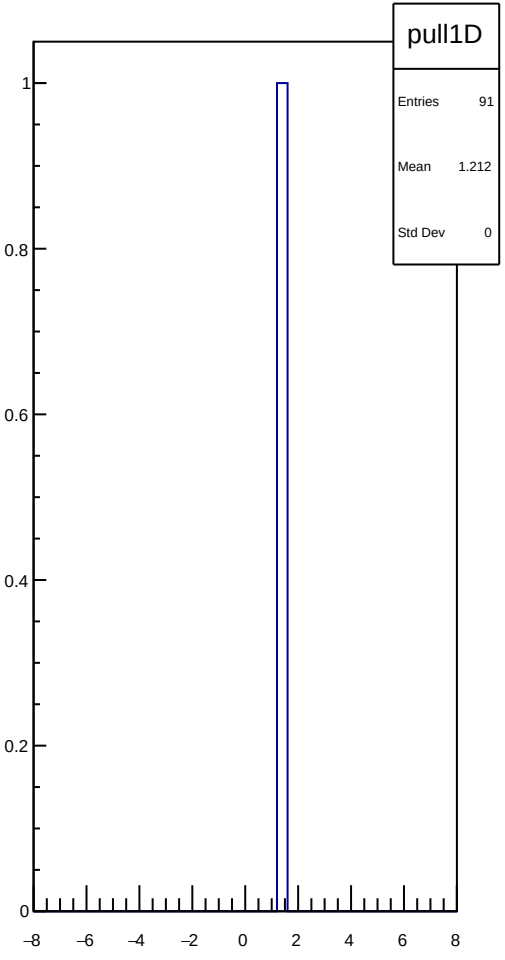

yield_sam2_rms vs run
χ² / ndf 2.092e+05 / 90
p0 0.1199 ± 9.722e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

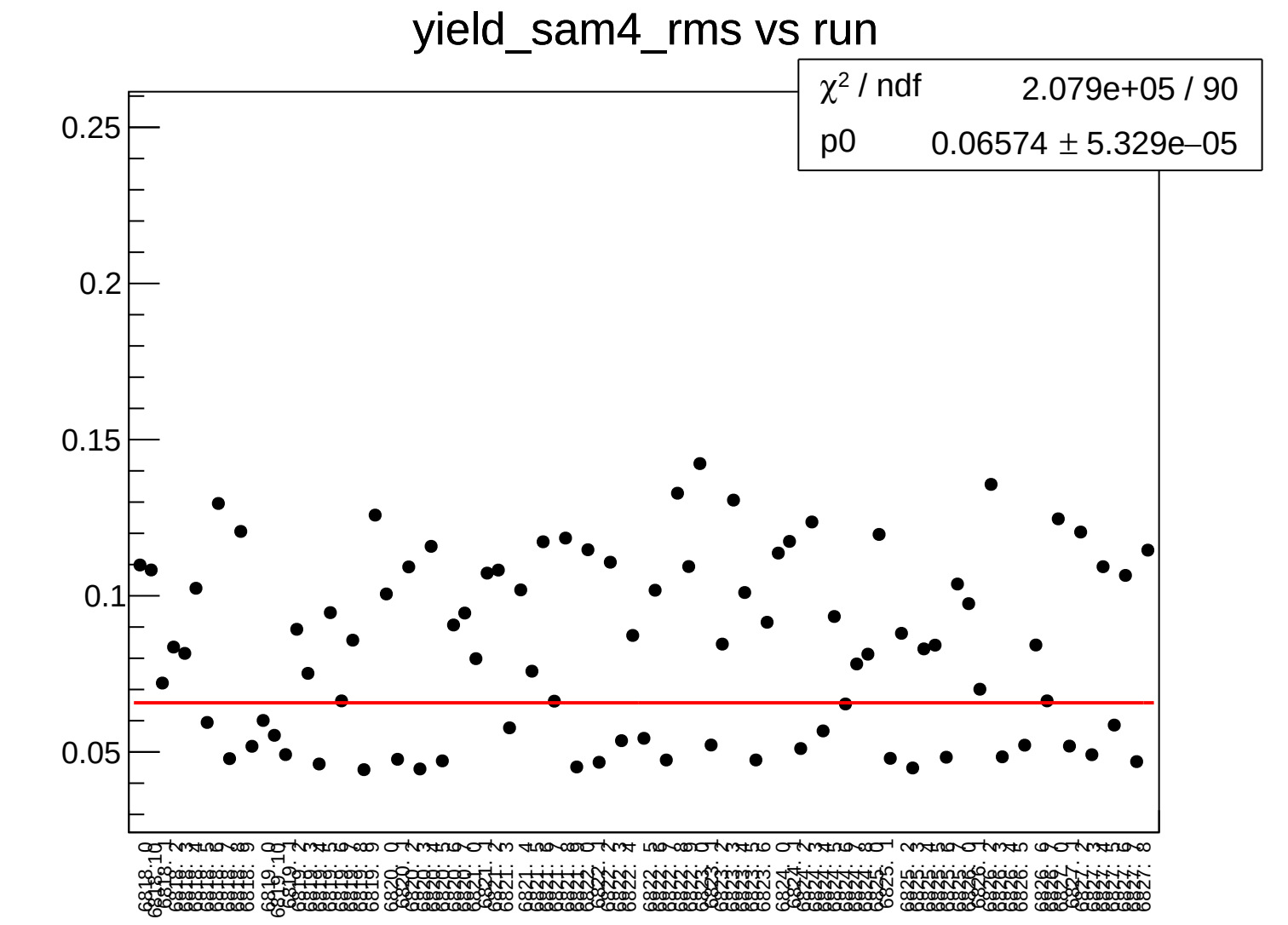

yield_sam3_mean vs run
χ^2 / ndf 1.202e+06 / 90
p0 30.79 ± 8.503e−05
31
30.9
30.8
30.7
30.6
30.5
pull
Entries 91
Mean 113
Std Dev 60.28
400
300
200
100
0
−100
−200

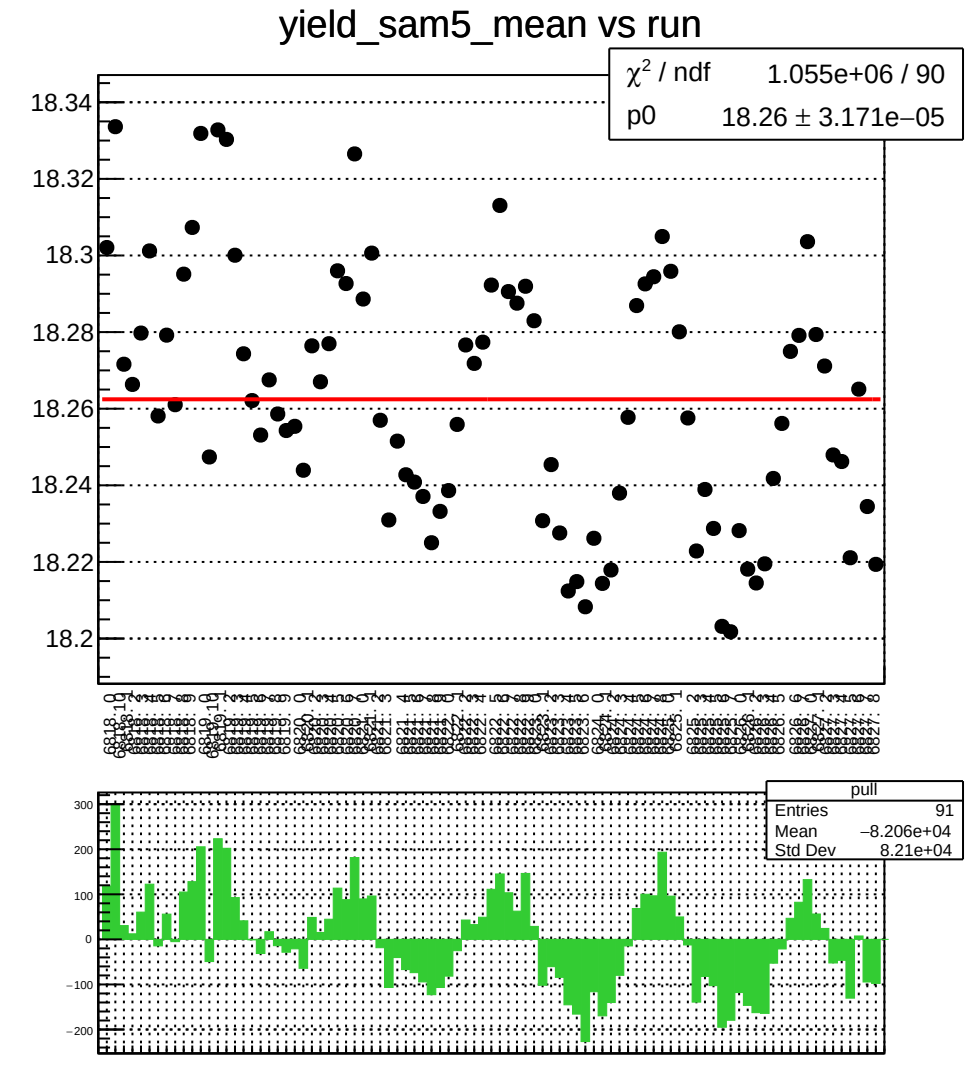

pull1D
Entries 91
Mean 5.013
Std Dev 2.62
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

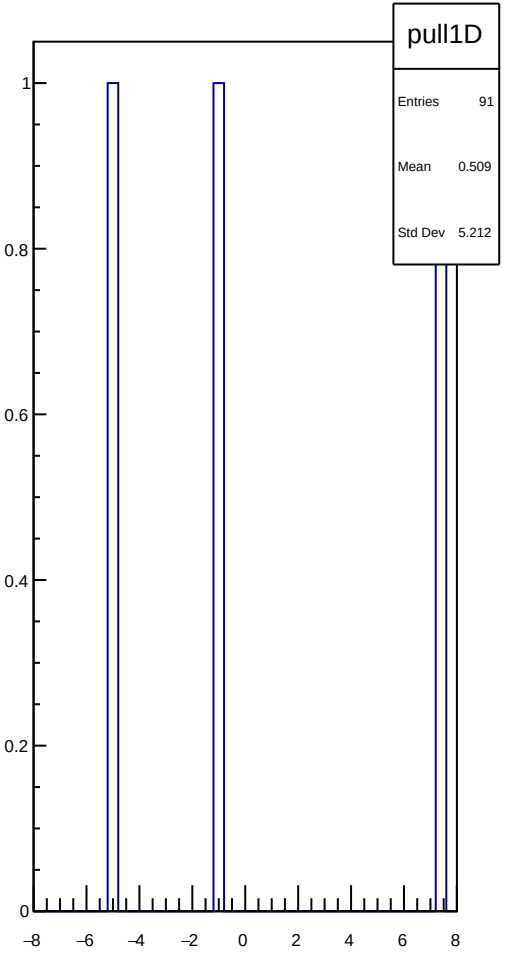

yield_sam3_rms vs run
χ² / ndf 3.11e+05 / 90
p0 0.07161 ± 6.012e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

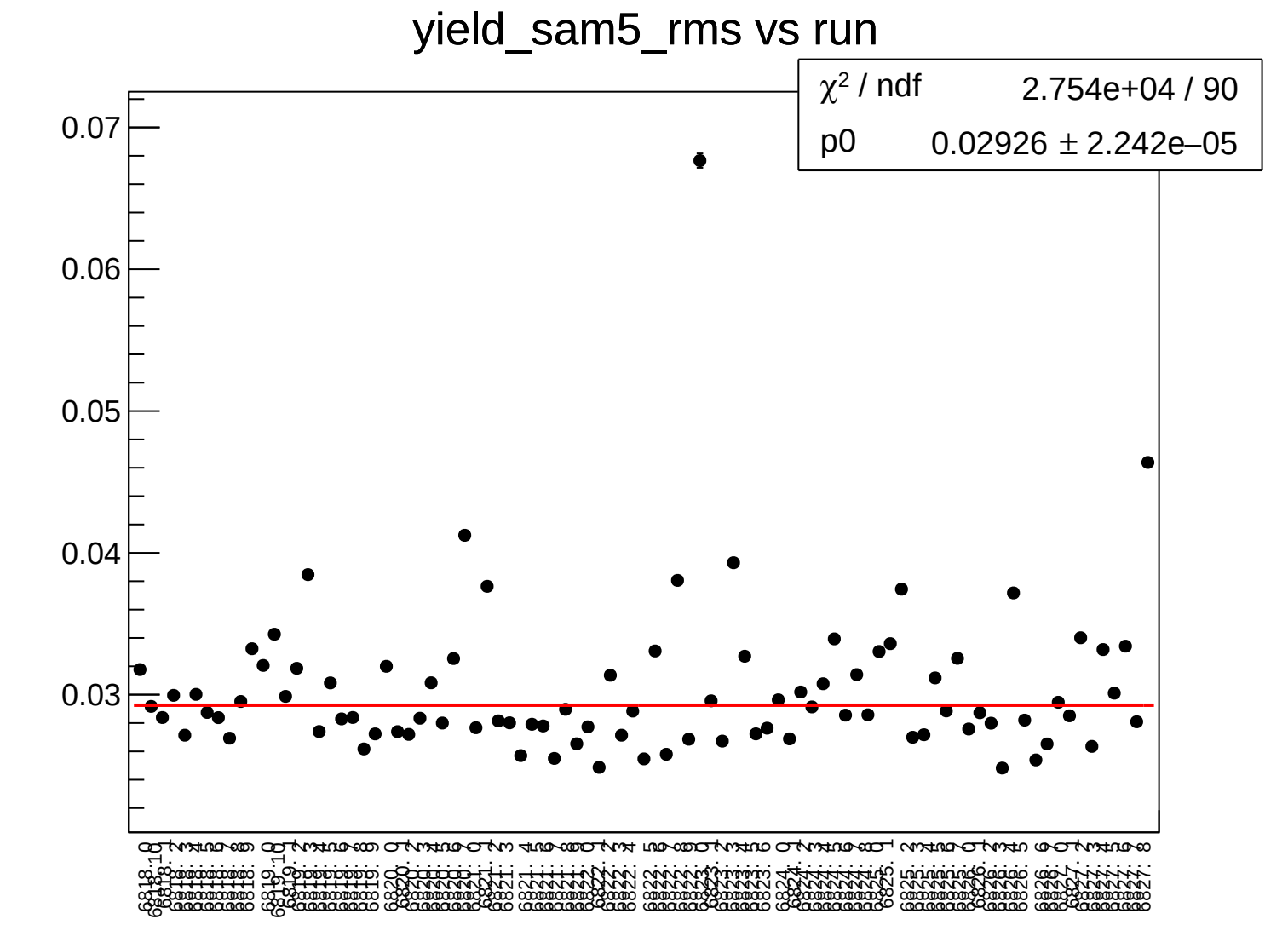

yield_sam4_mean vs run
χ² / ndf 1.397e+06 / 90
p0 15.01± 7.536e−05
15.2
15.15
15.1
15.05
15
14.95
14.9
14.85
14.8
pull
Entries 91
Mean 102.2
Std Dev 51.7
400
300
200
100
0
−100
−200

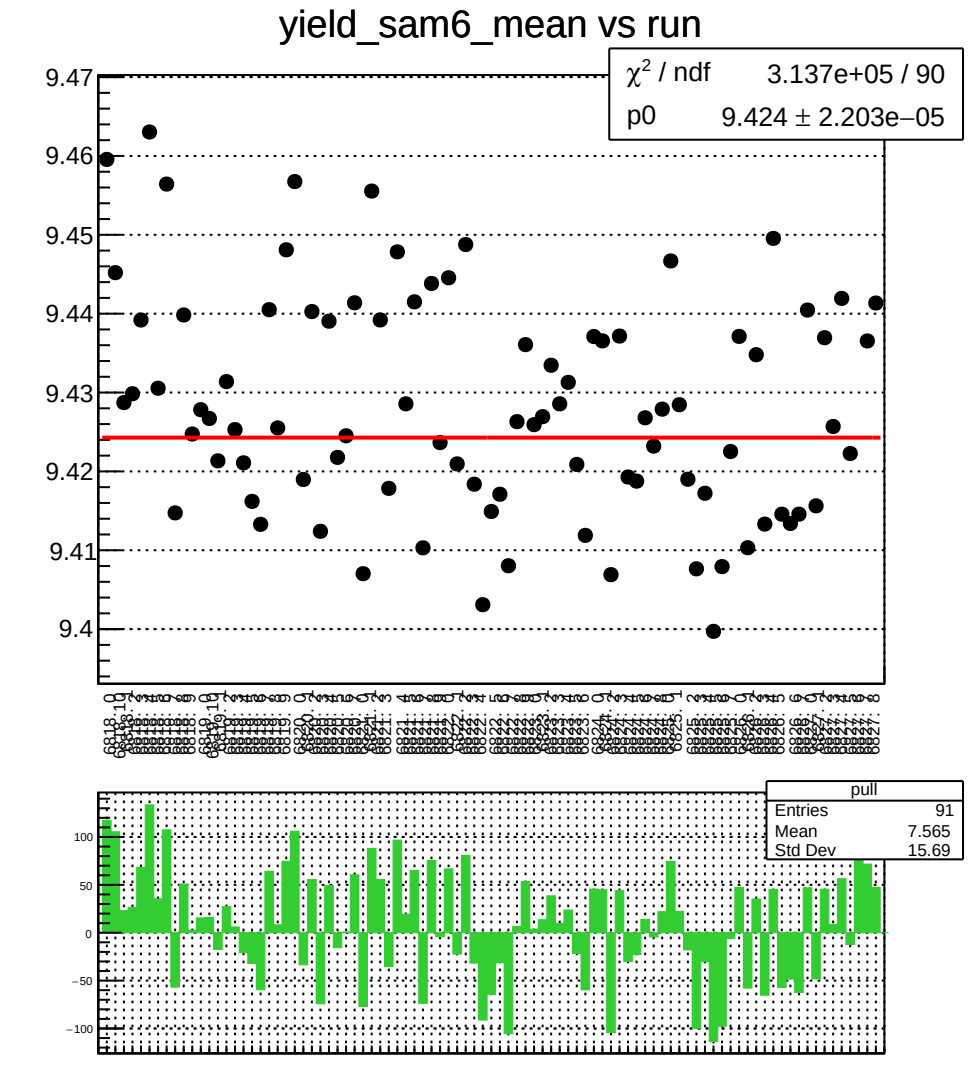

pull1D
Entries 91
Mean 1.212
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

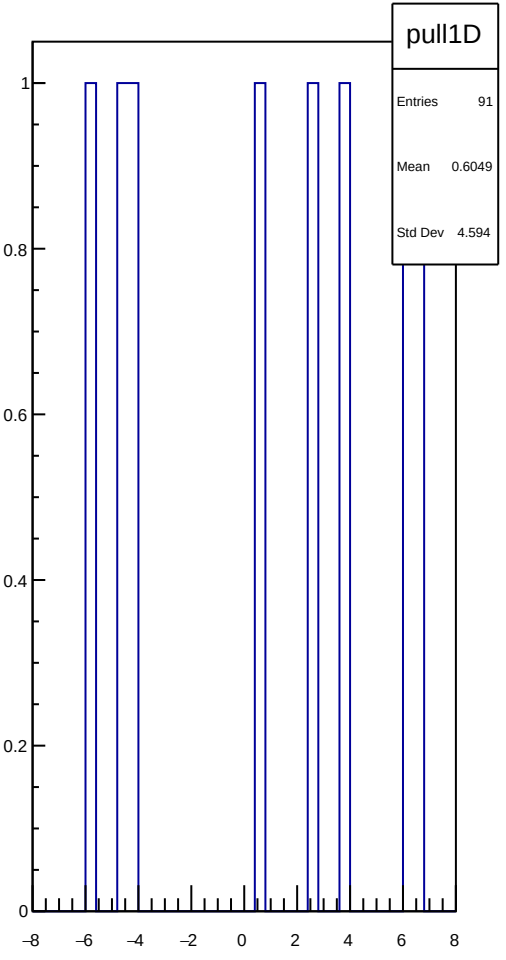

yield_sam4_rms vs run
χ² / ndf 2.079e+05 / 90
p0 0.06574 ± 5.329e–05
0.25
0.2
0.15
0.1
0.05

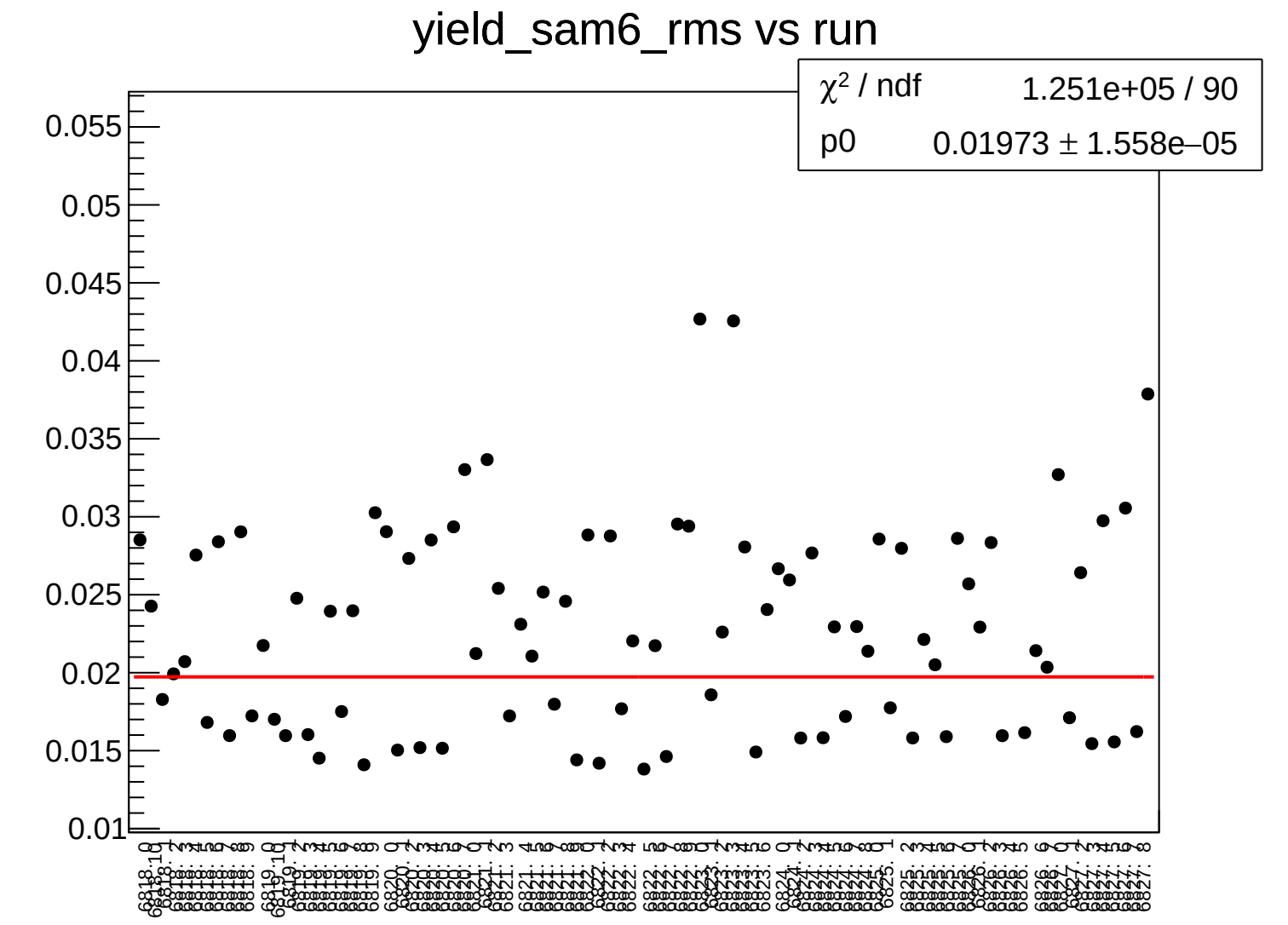

yield_sam5_mean vs run
χ² / ndf 1.055e+06 / 90
p0 18.26 ± 3.171e−05
18.34
18.32
18.3
18.28
18.26
18.24
18.22
18.2
pull
Entries 91
Mean −8.206e+04
Std Dev 8.21e+04
300
200
100
0
−100
−200

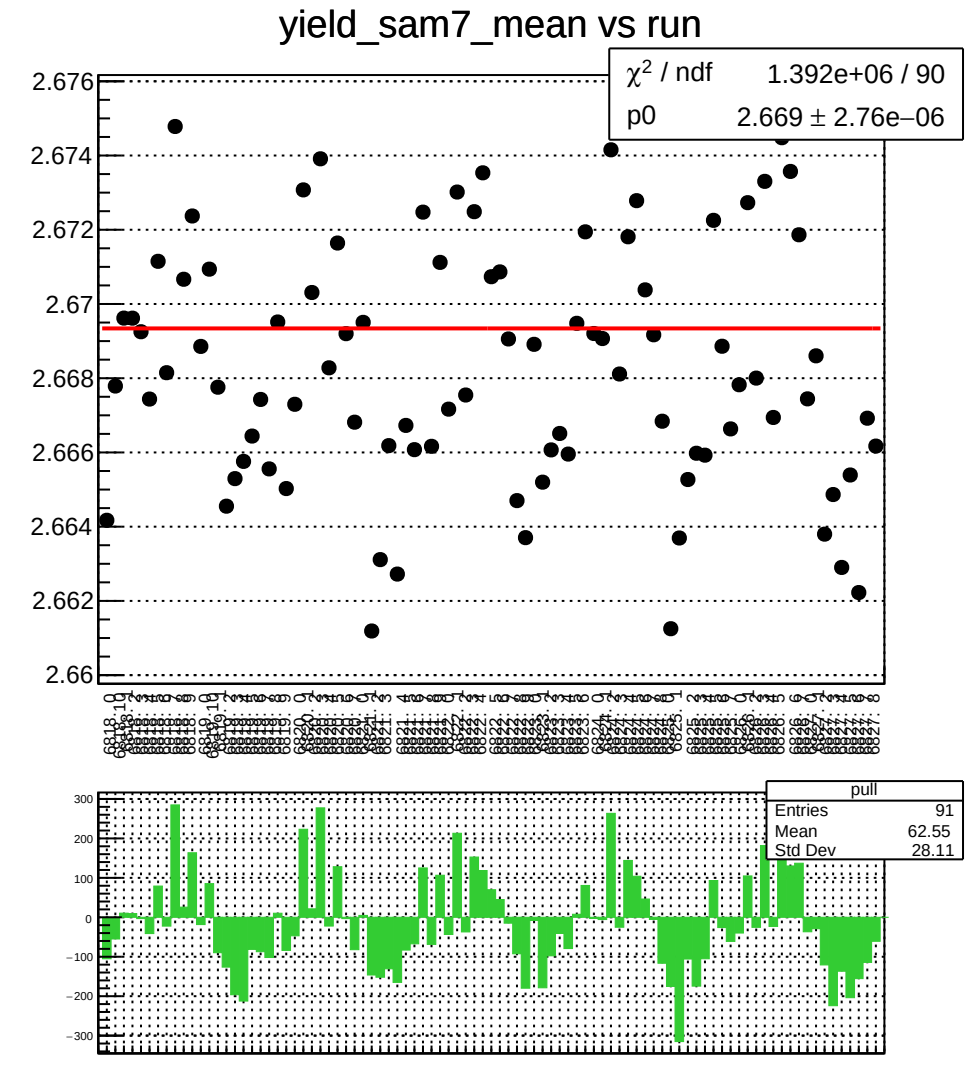

pull1D
Entries 91
Mean 0.509
Std Dev 5.212
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

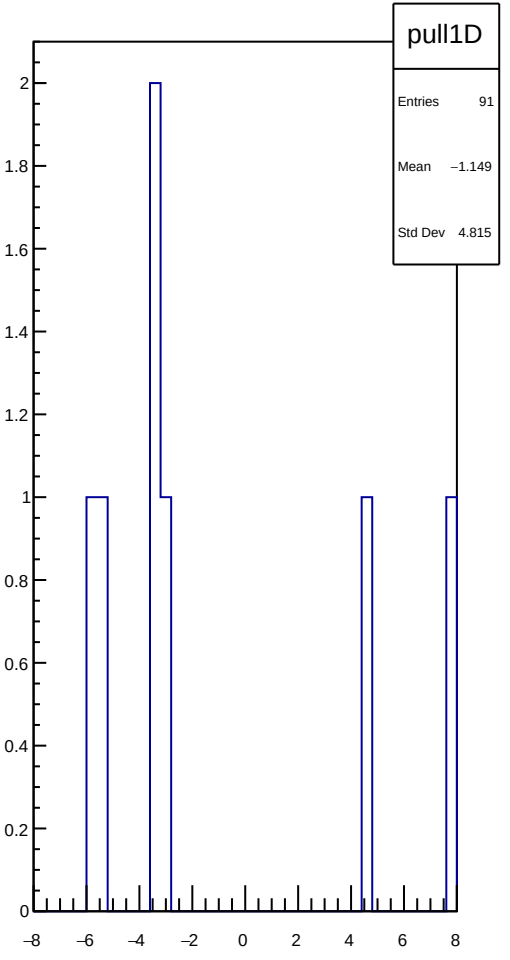

yield_sam5_rms vs run
χ² / ndf 2.754e+04 / 90
p0 0.02926 ± 2.242e−05
0.07
0.06
0.05
0.04
0.03

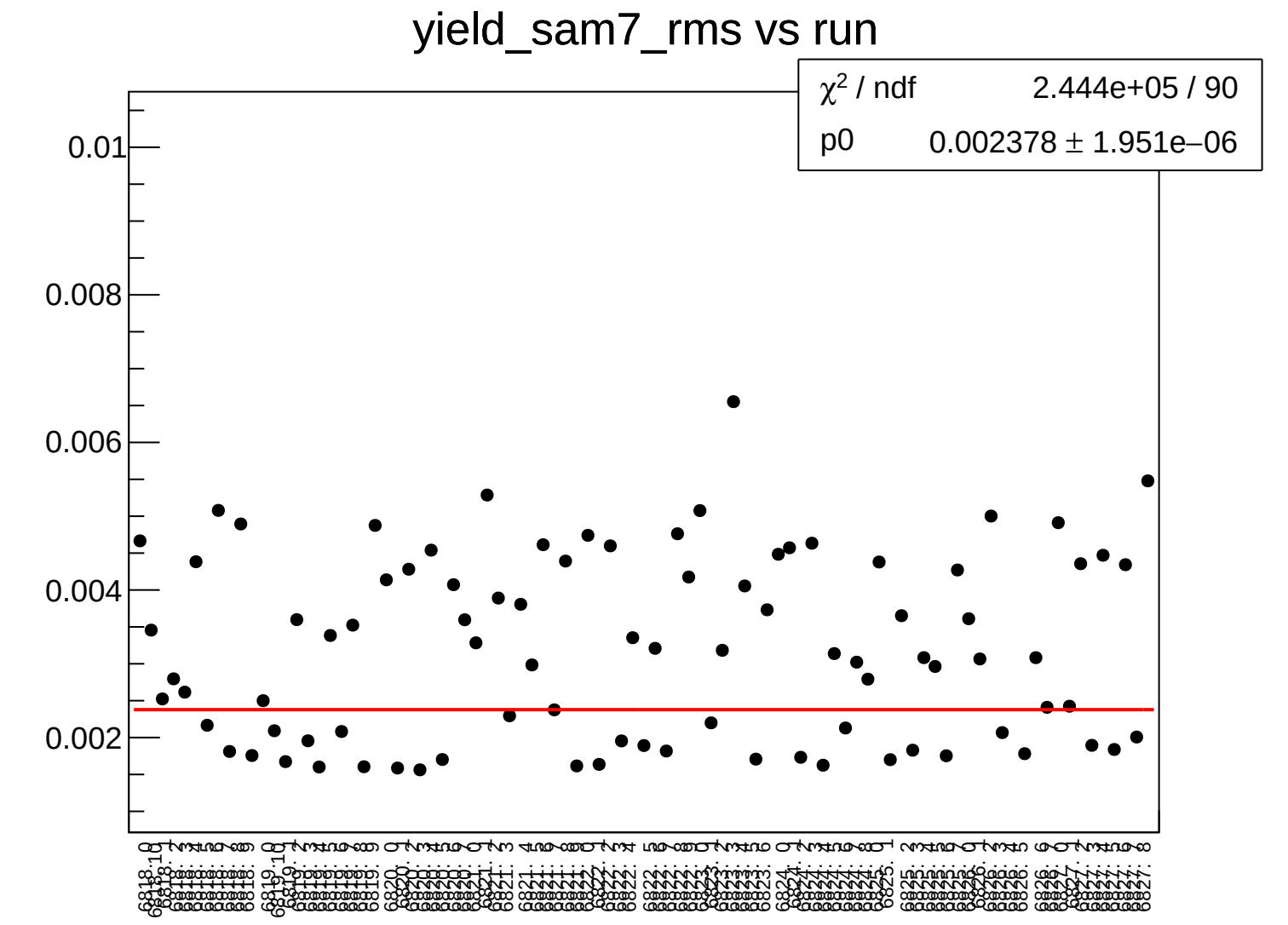

yield_sam6_mean vs run
χ² / ndf 3.137e+05 / 90
p0 9.424 ± 2.203e−05
9.47
9.46
9.45
9.44
9.43
9.42
9.41
9.4
pull
Entries 91
Mean 7.565
Std Dev 15.69
100
50
0
−50
−100

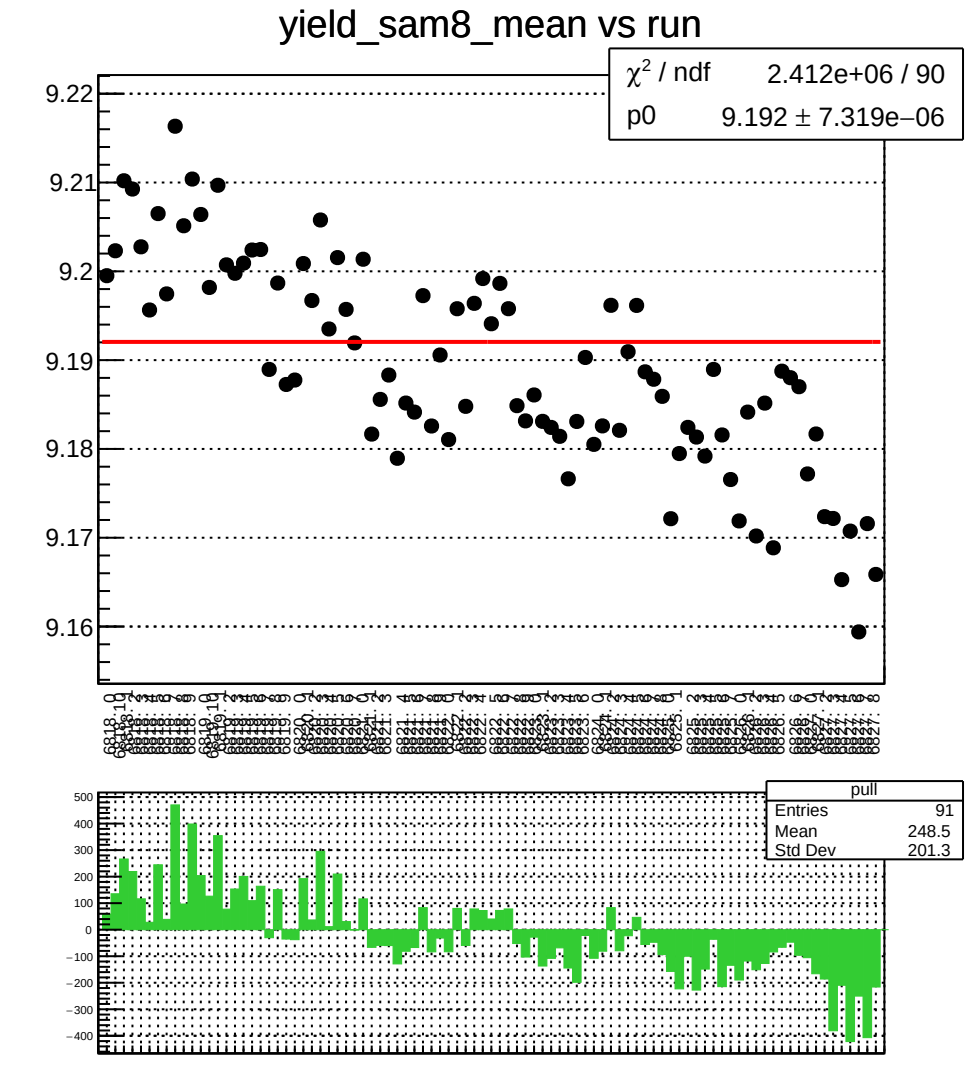

pull1D
Entries 91
Mean 0.6049
Std Dev 4.594
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

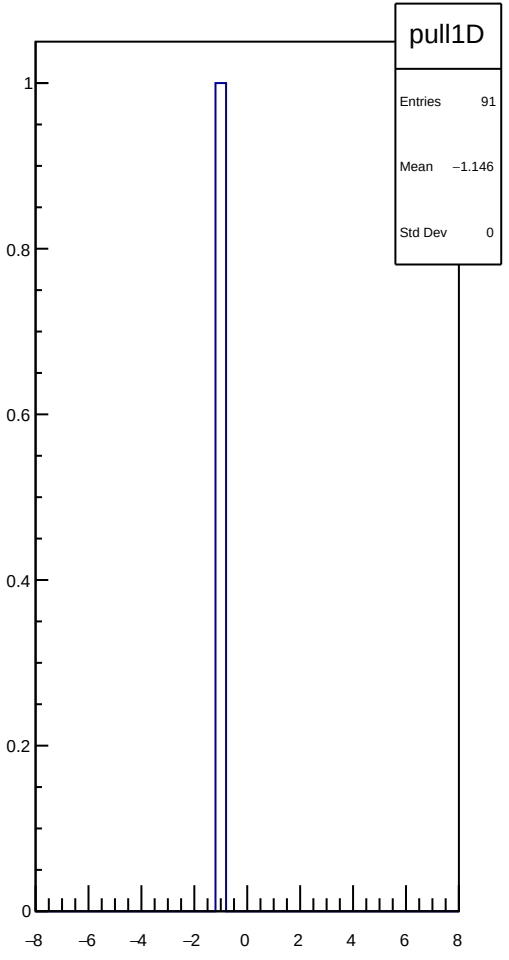

yield_sam6_rms vs run
χ² / ndf 1.251e+05 / 90
p0 0.01973 ± 1.558e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

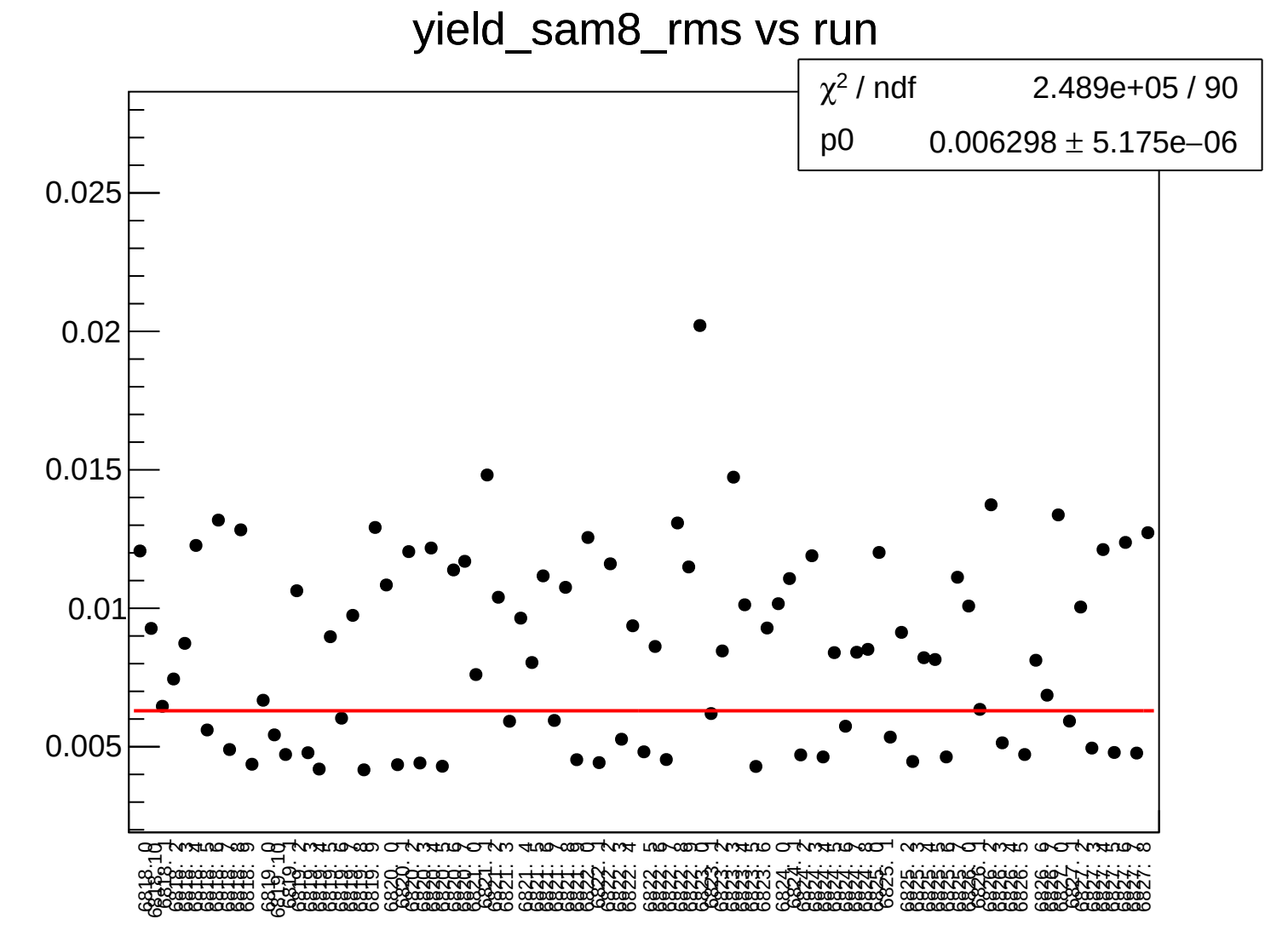

yield_sam7_mean vs run
χ² / ndf 1.392e+06 / 90
p0 2.669 ± 2.76e−06
2.676
2.674
2.672
2.67
2.668
2.666
2.664
2.662
2.66
pull
Entries 91
Mean 62.55
Std Dev 28.11
300
200
100
0
−100
−200
−300

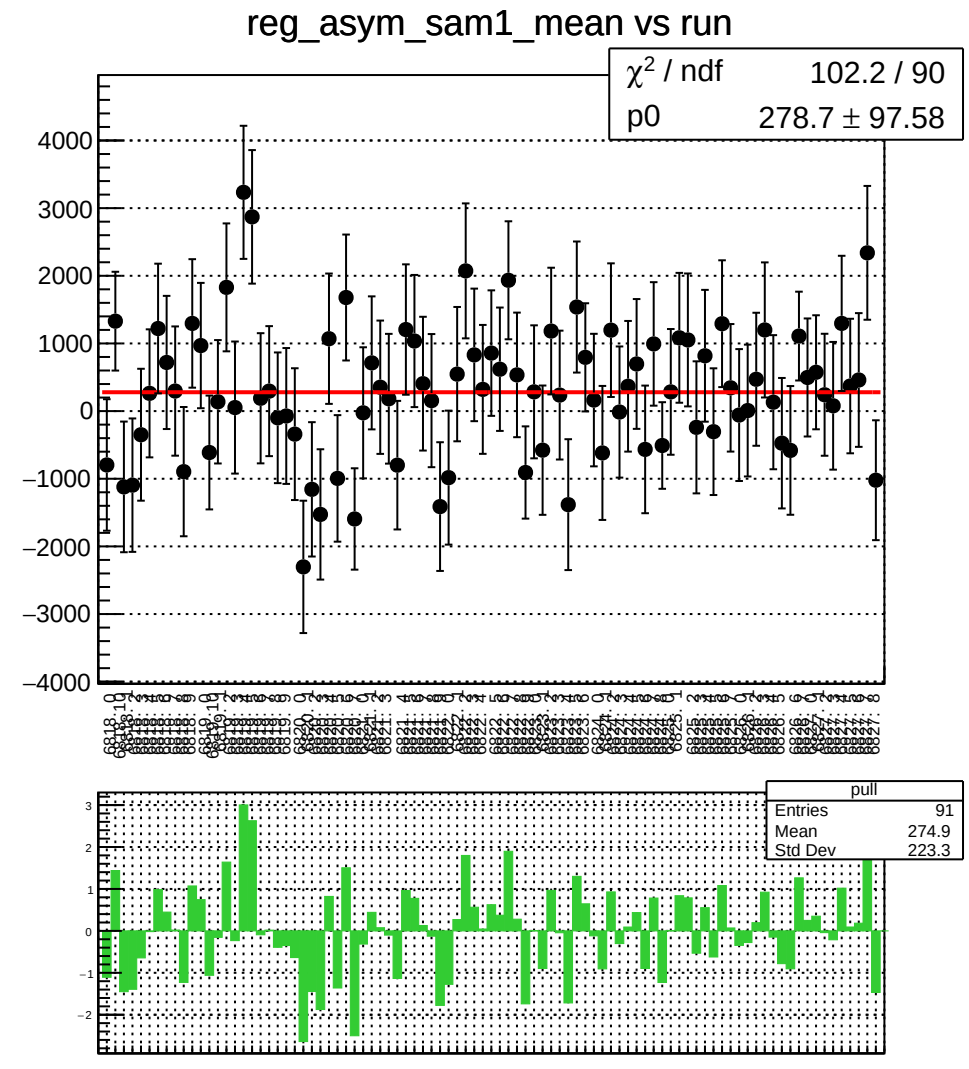

pull1D
Entries 91
Mean −1.149
Std Dev 4.815
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

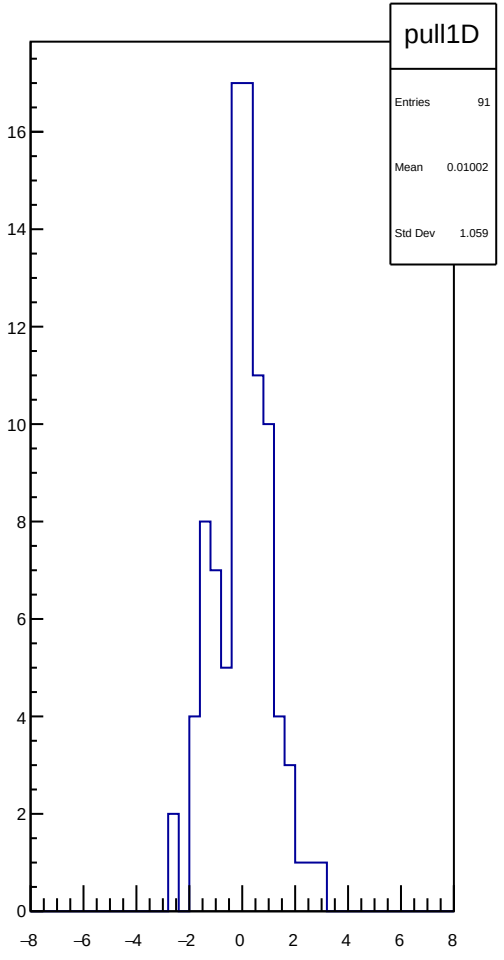

yield_sam7_rms vs run
χ² / ndf 2.444e+05 / 90
p0 0.002378 ± 1.951e−06
0.01
0.008
0.006
0.004
0.002

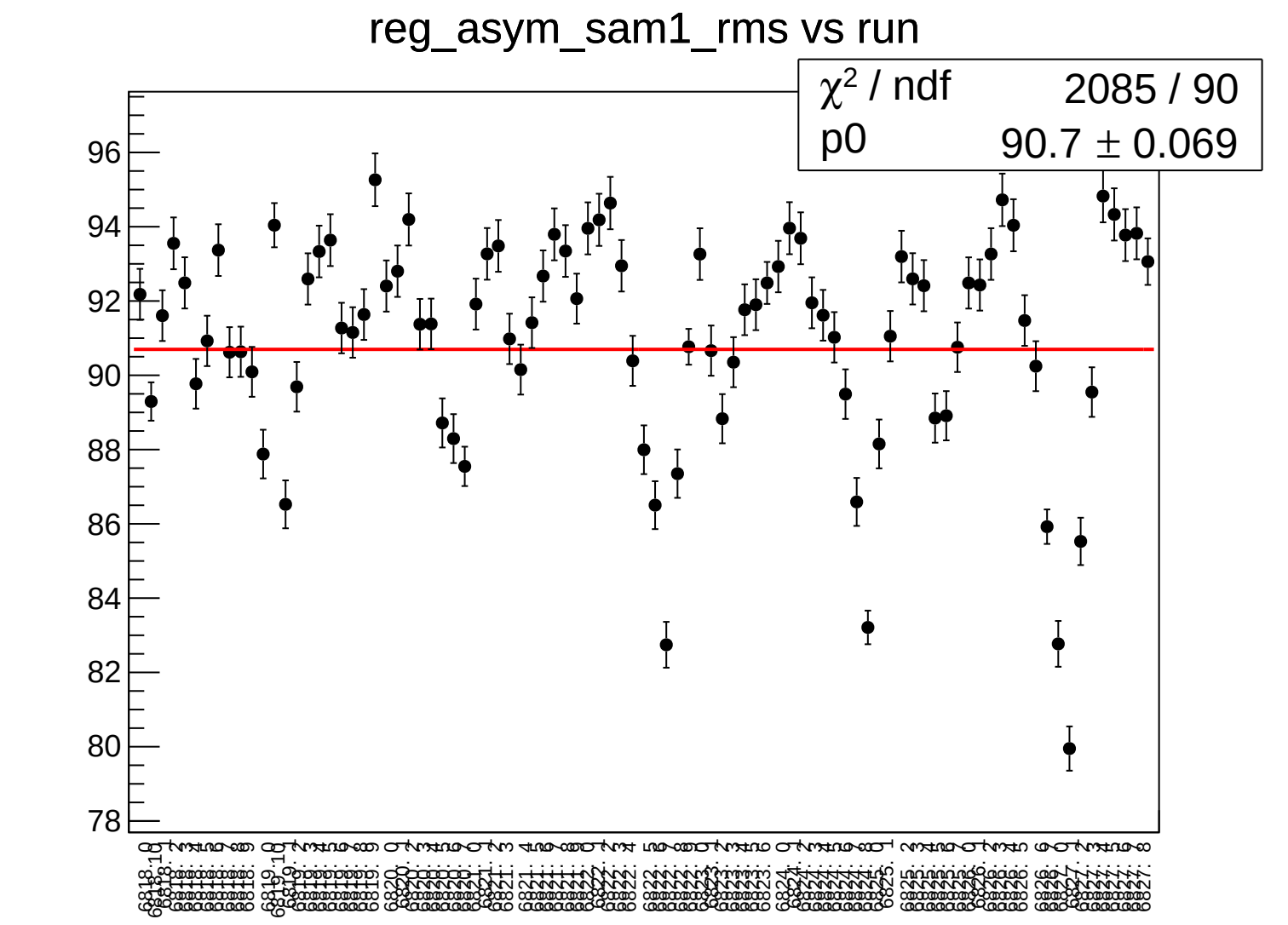

yield_sam8_mean vs run
χ² / ndf 2.412e+06 / 90
p0 9.192 ± 7.319e−06
9.22
9.21
9.2
9.19
9.18
9.17
9.16
pull
Entries 91
Mean 248.5
Std Dev 201.3
500
400
300
200
100
0
−100
−200
−300
−400

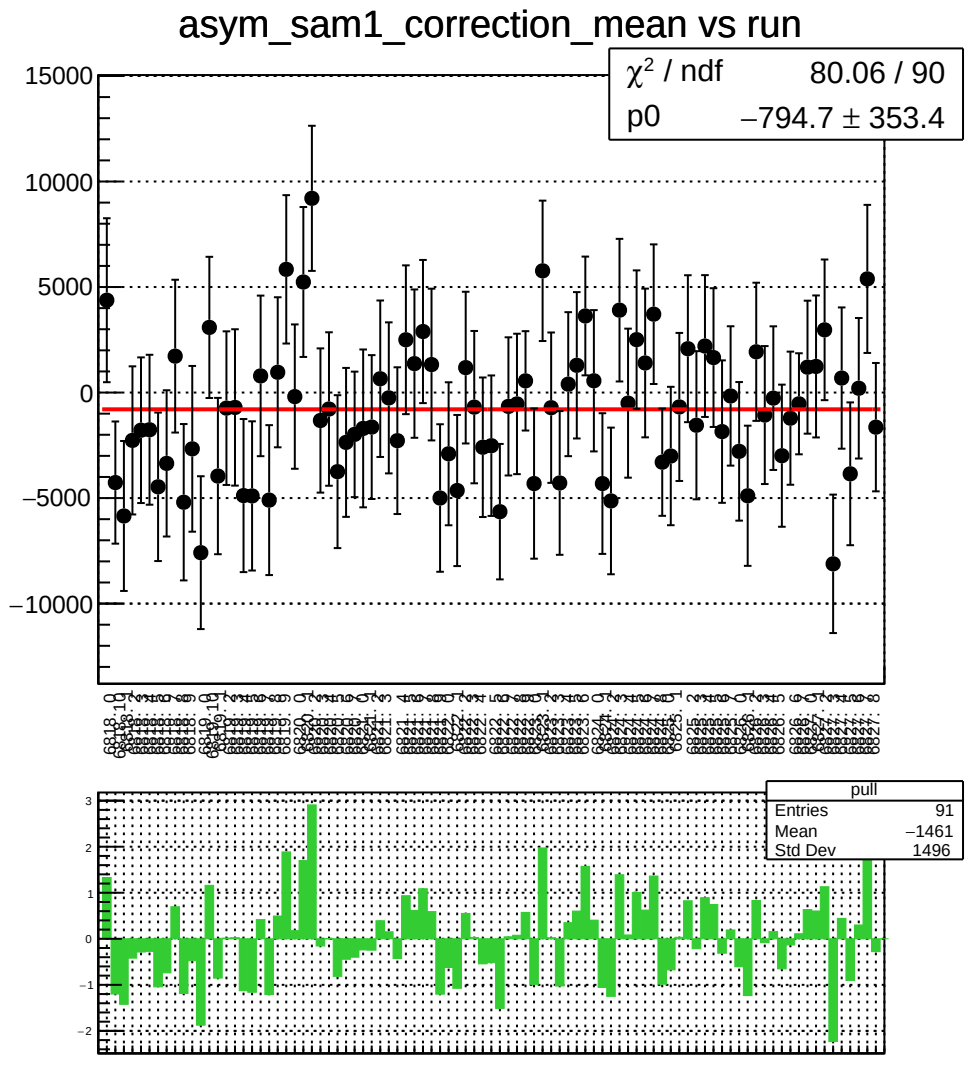

pull1D
Entries 91
Mean −1.146
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

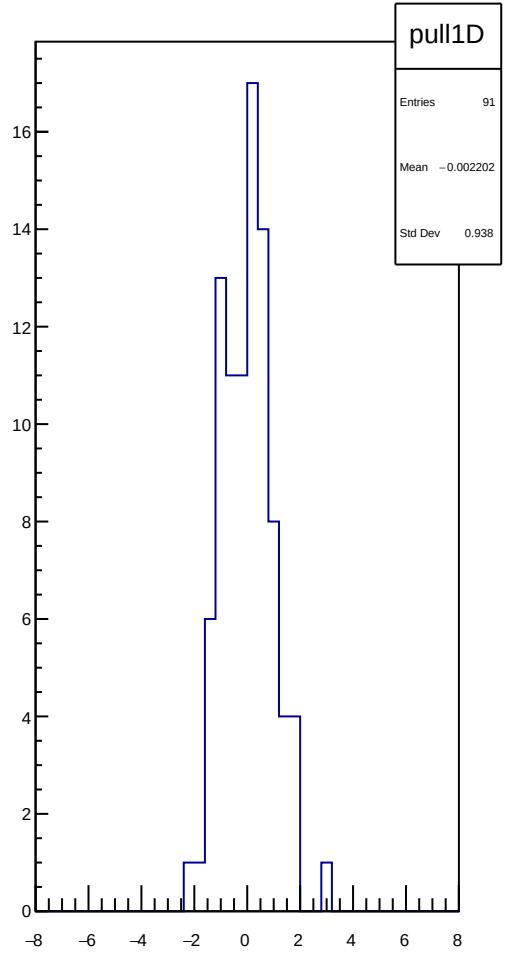

yield_sam8_rms vs run
χ^2 / ndf 2.489e+05 / 90
p0 0.006298 ± 5.175e−06
0.025
0.02
0.015
0.01
0.005

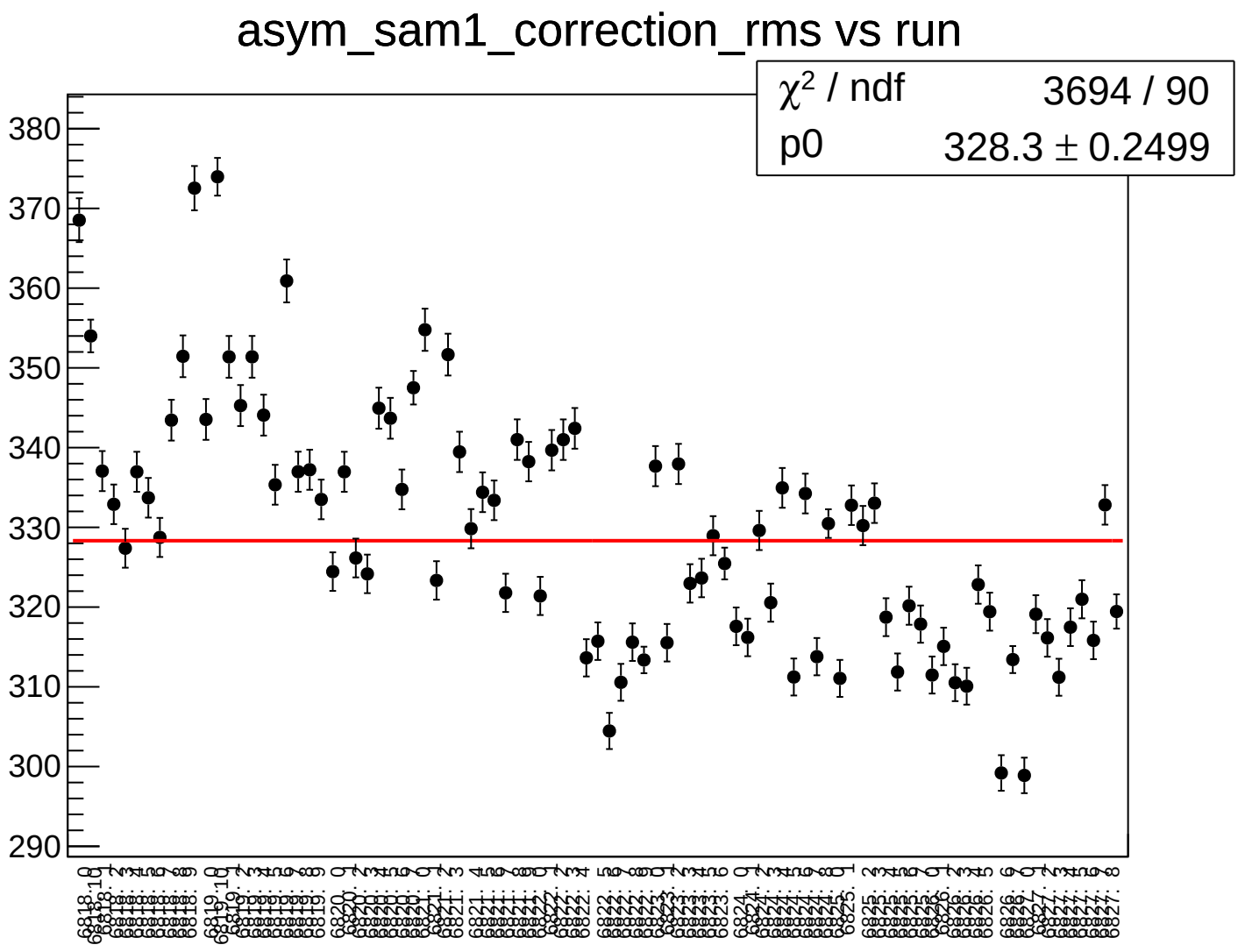

reg_asym_sam1_mean vs run
χ² / ndf 102.2 / 90
p0 278.7 ± 97.58
pull
Entries 91
Mean 274.9
Std Dev 223.3

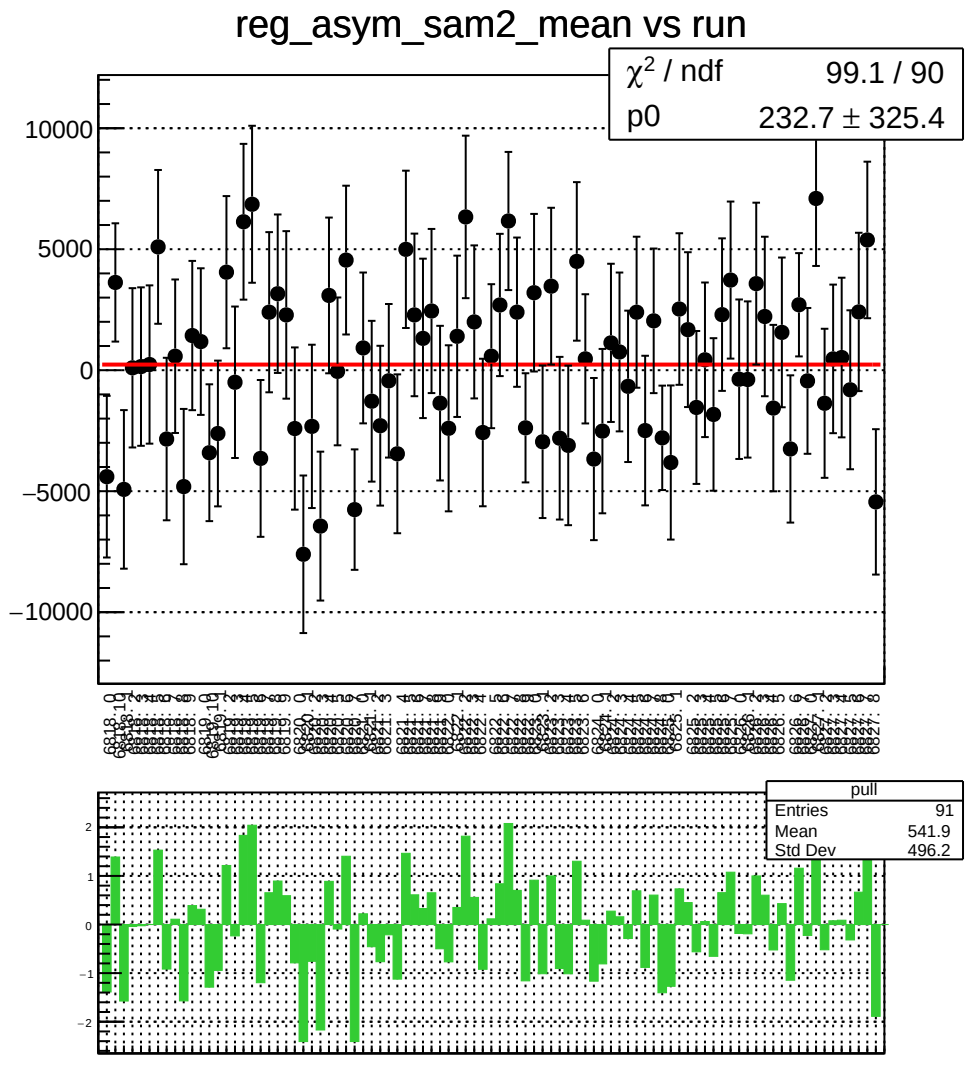

pull1D
Entries 91
Mean 0.01002
Std Dev 1.059

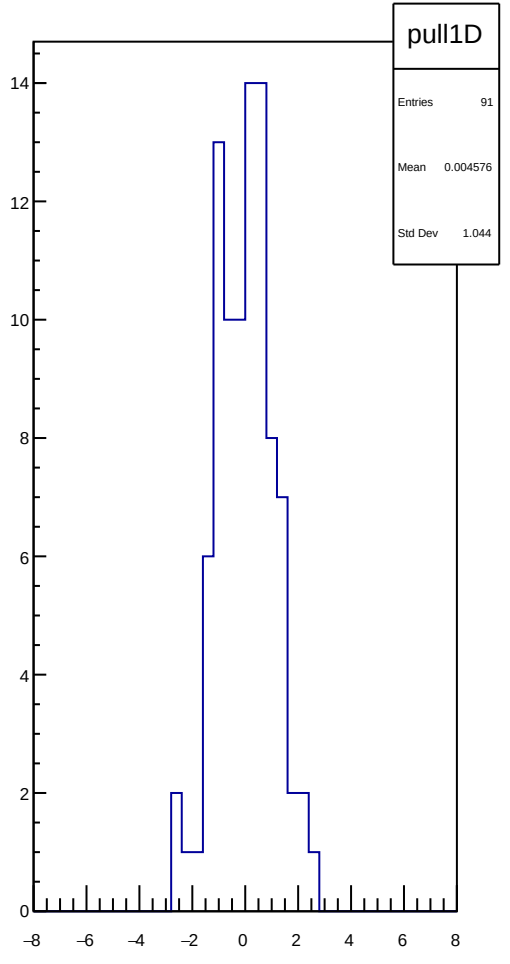

reg_asym_sam1_rms vs run
χ² / ndf 2085 / 90
p0 90.7 ± 0.069
96
94
92
90
88
86
84
82
80
78

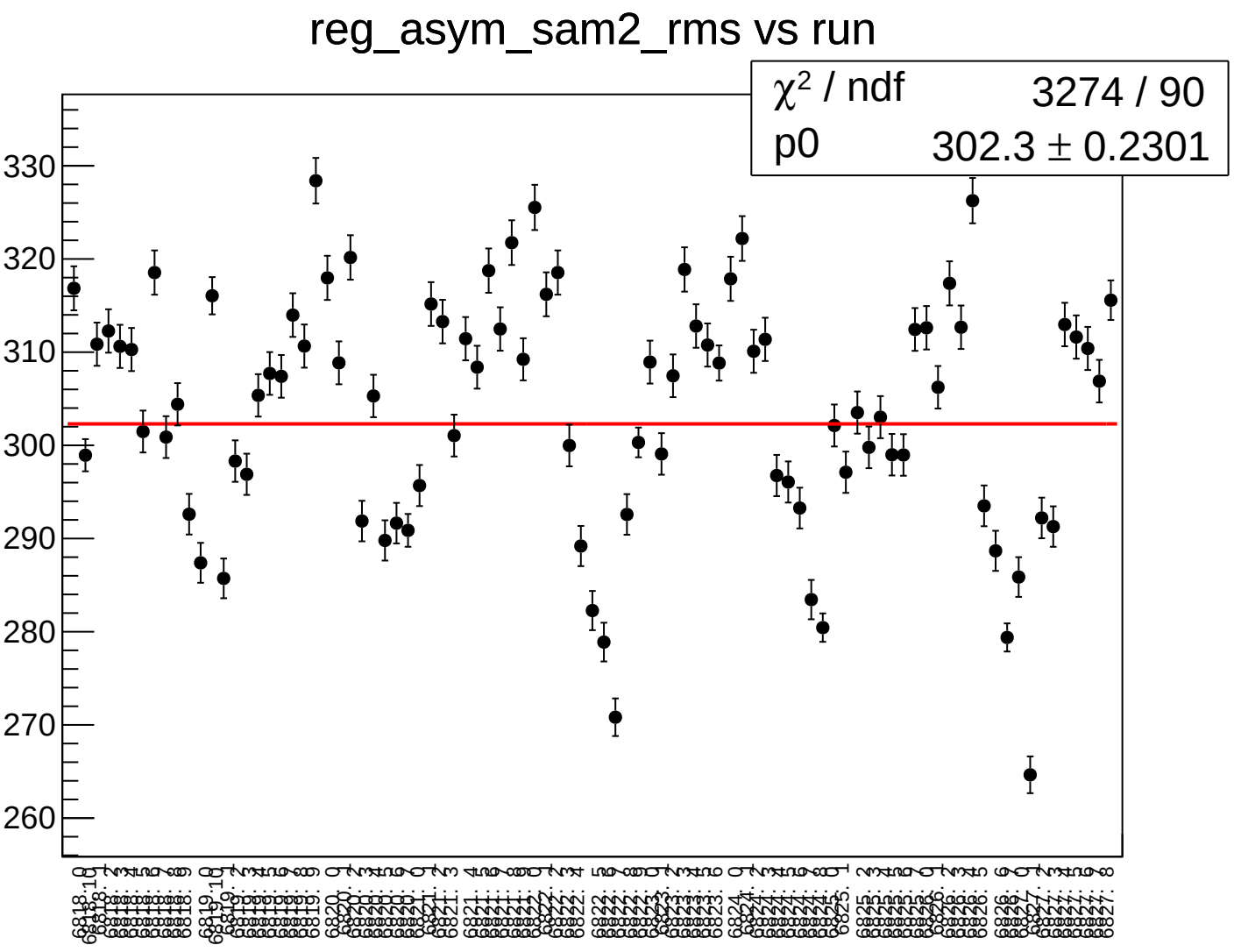

asym_sam1_correction_mean vs run
χ² / ndf 80.06 / 90
p0 −794.7 ± 353.4
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −1461
Std Dev 1496
3
2
1
0
−1
−2

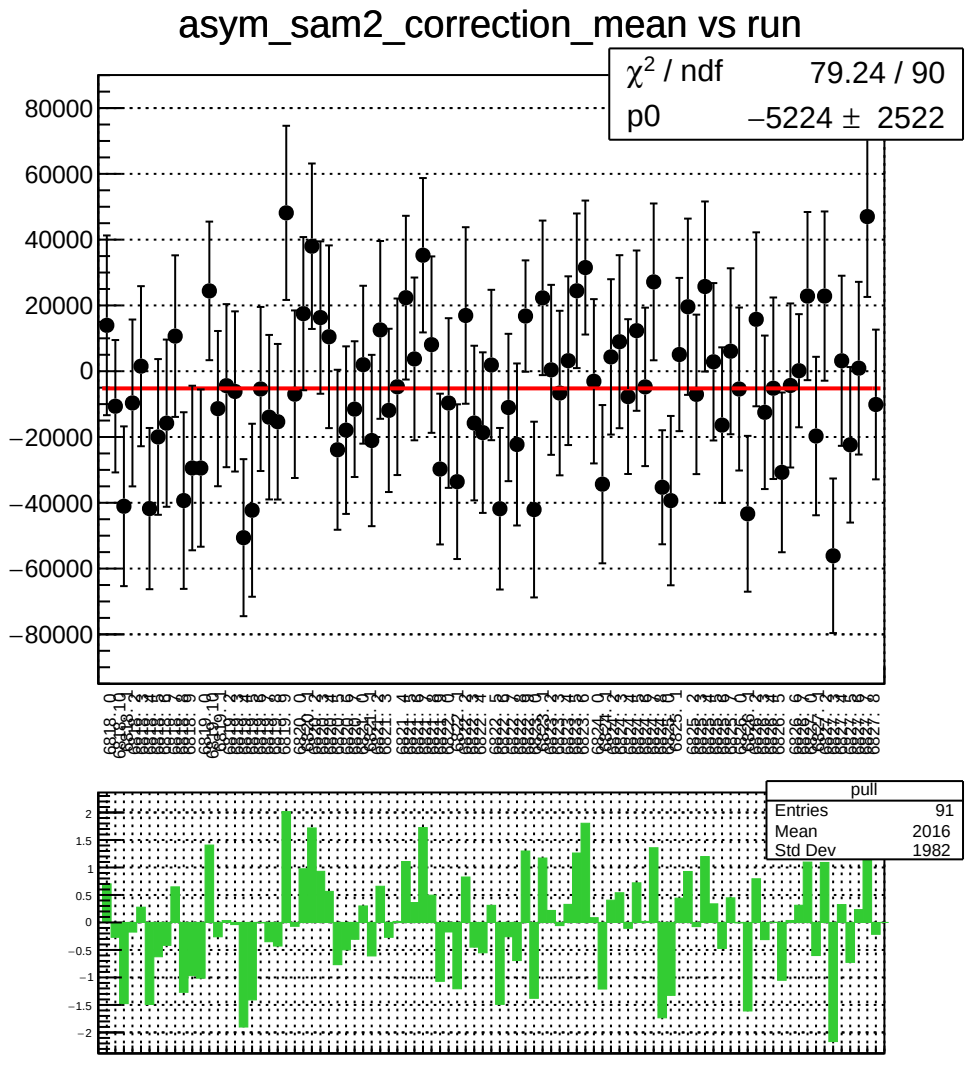

pull1D
Entries 91
Mean −0.002202
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

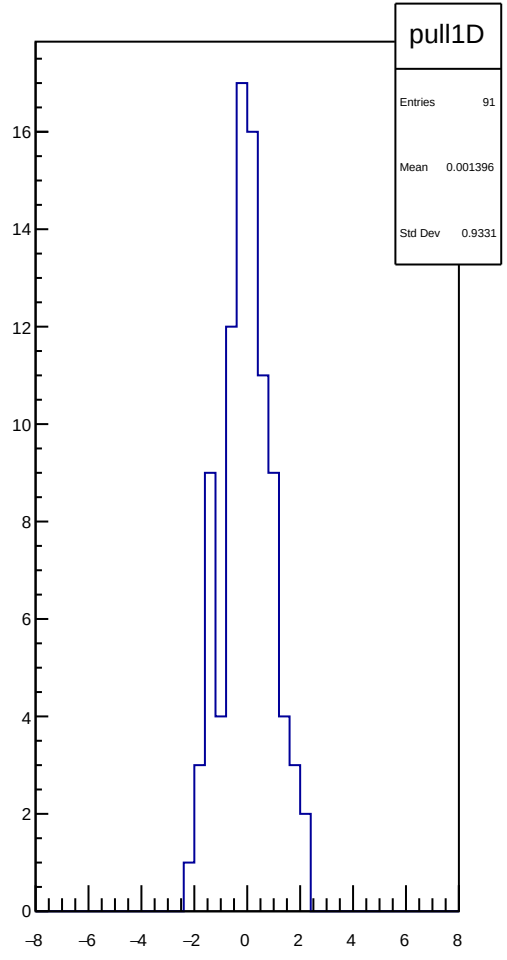

asym_sam1_correction_rms vs run
χ² / ndf 3694 / 90
p0 328.3 ± 0.2499
380
370
360
350
340
330
320
310
300
290

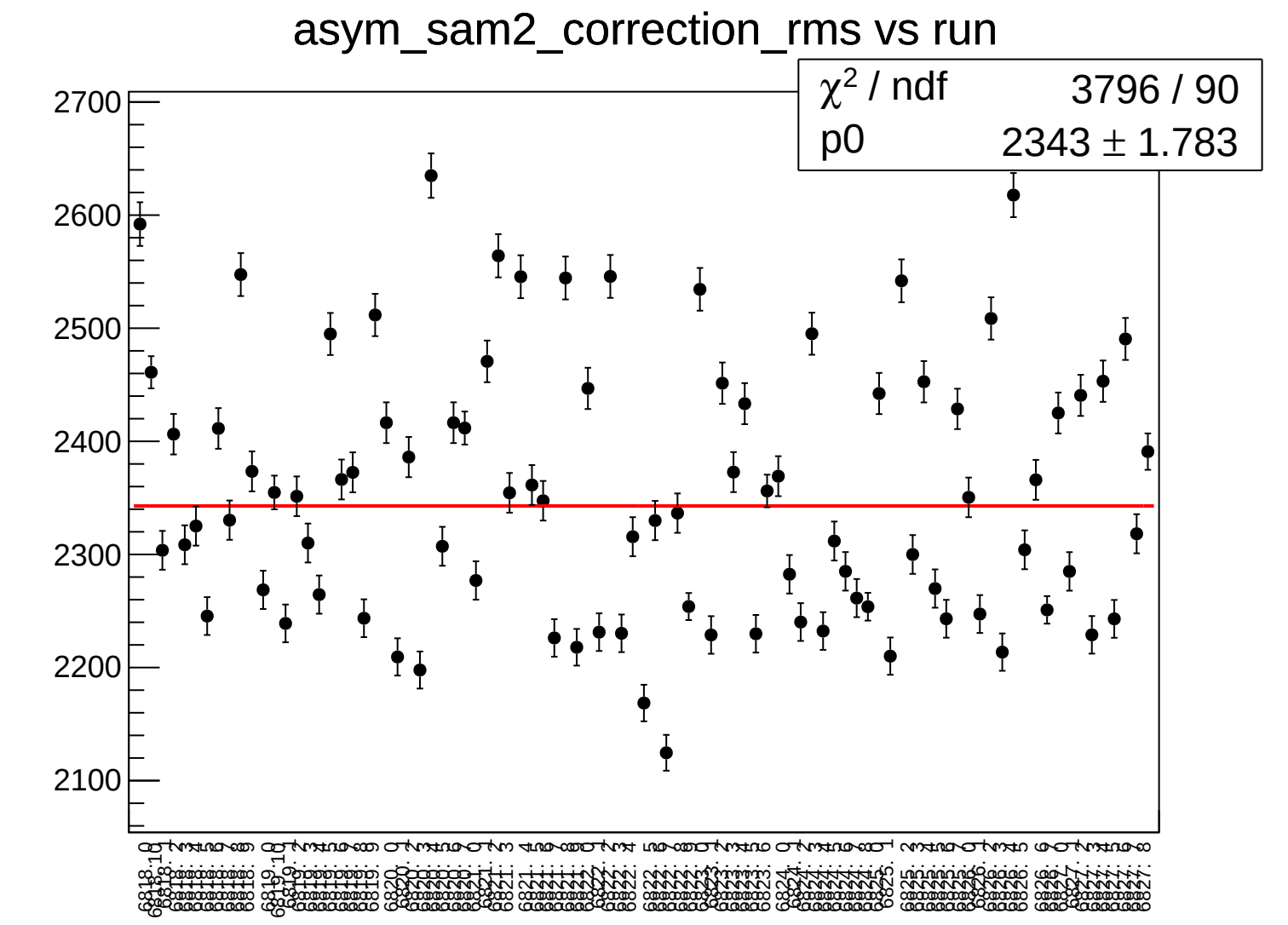

reg_asym_sam2_mean vs run
χ² / ndf 99.1 / 90
p0 232.7 ± 325.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 541.9
Std Dev 496.2
2
1
0
−1
−2

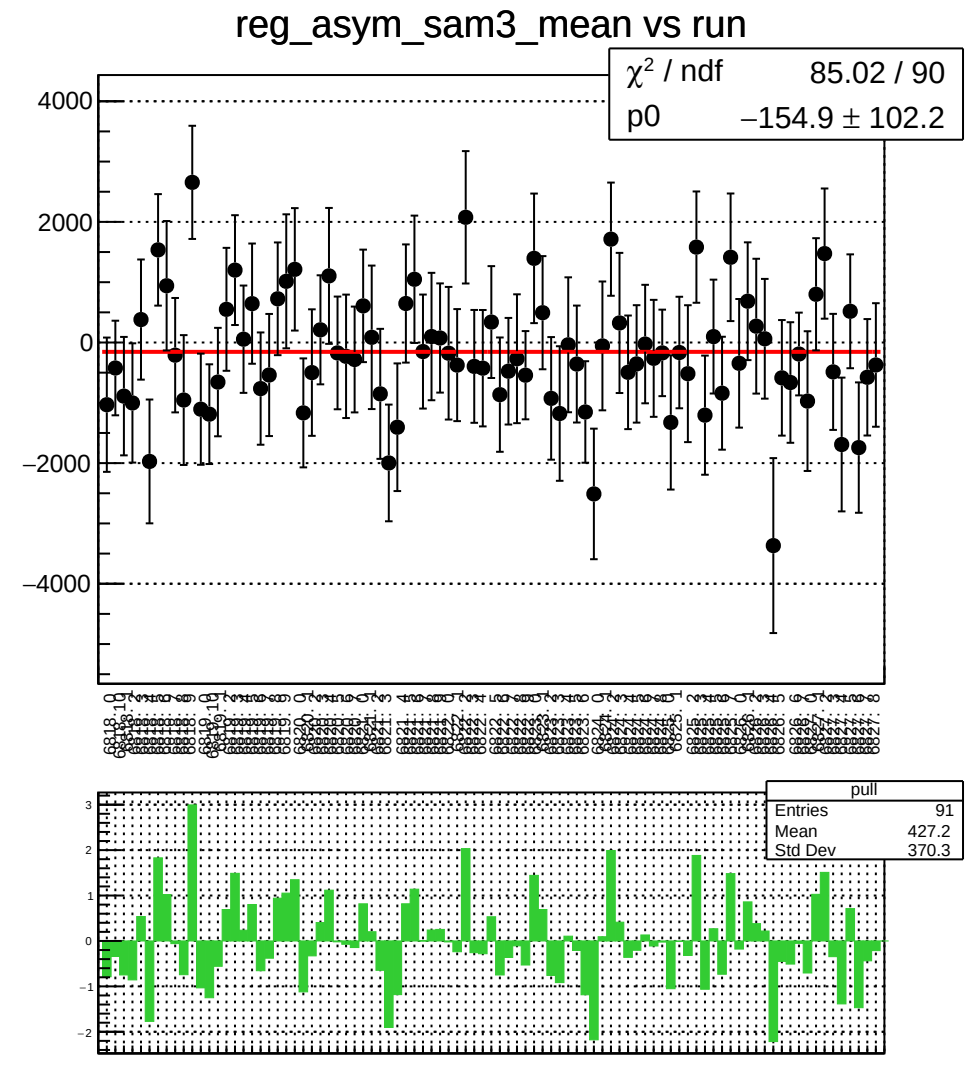

pull1D
Entries 91
Mean 0.004576
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

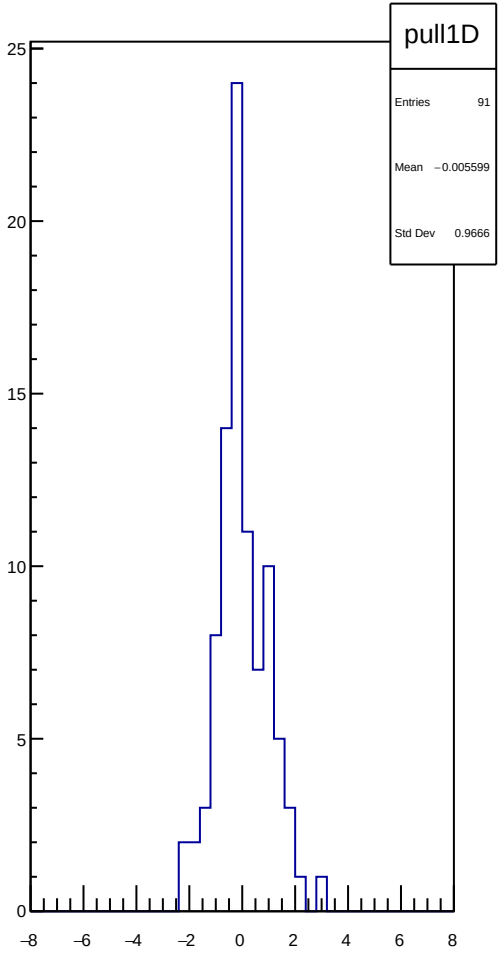

reg_asym_sam2_rms vs run
χ² / ndf 3274 / 90
p0 302.3 ± 0.2301
330
320
310
300
290
280
270
260

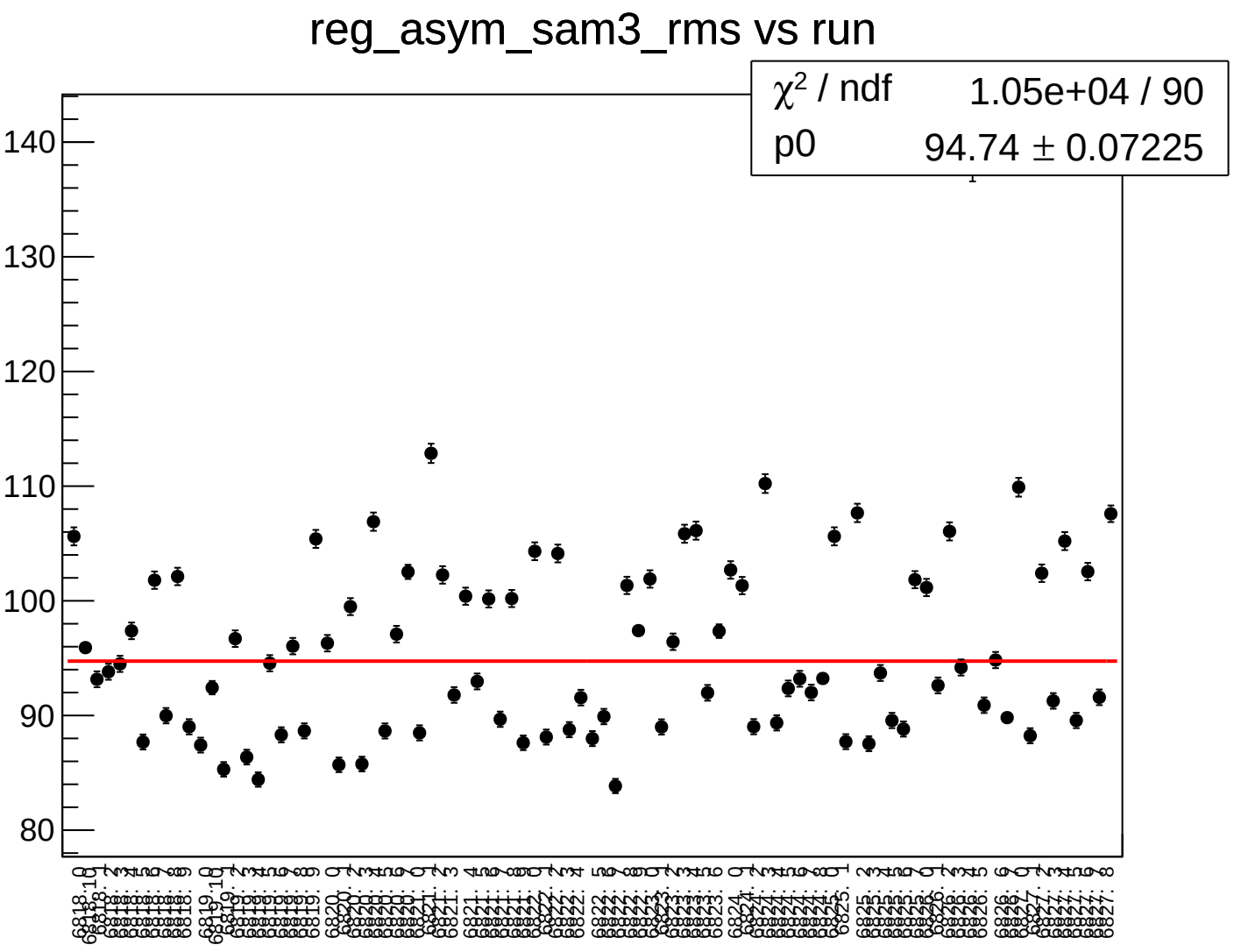

asym_sam2_correction_mean vs run
χ² / ndf 79.24 / 90
p0 −5224 ± 2522
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 2016
Std Dev 1982
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

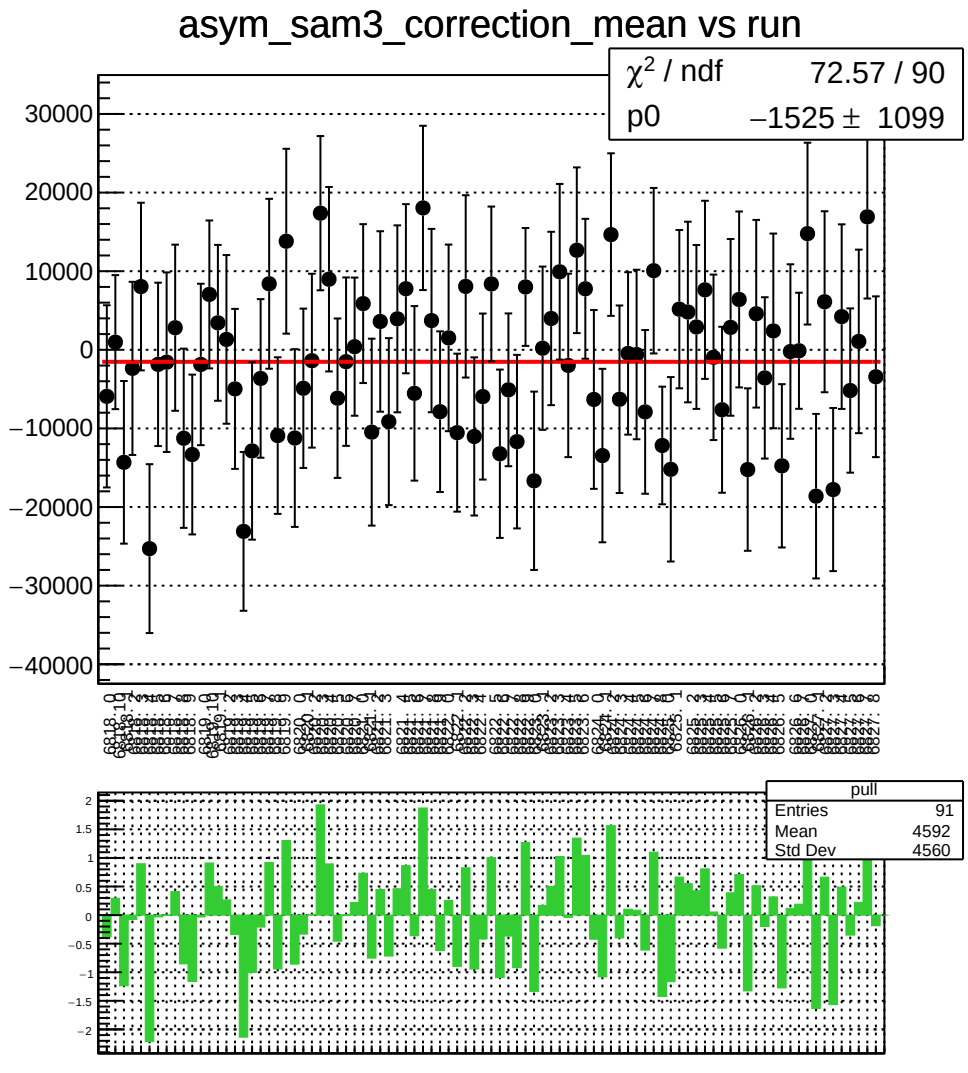

pull1D
Entries 91
Mean 0.001396
Std Dev 0.9331
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

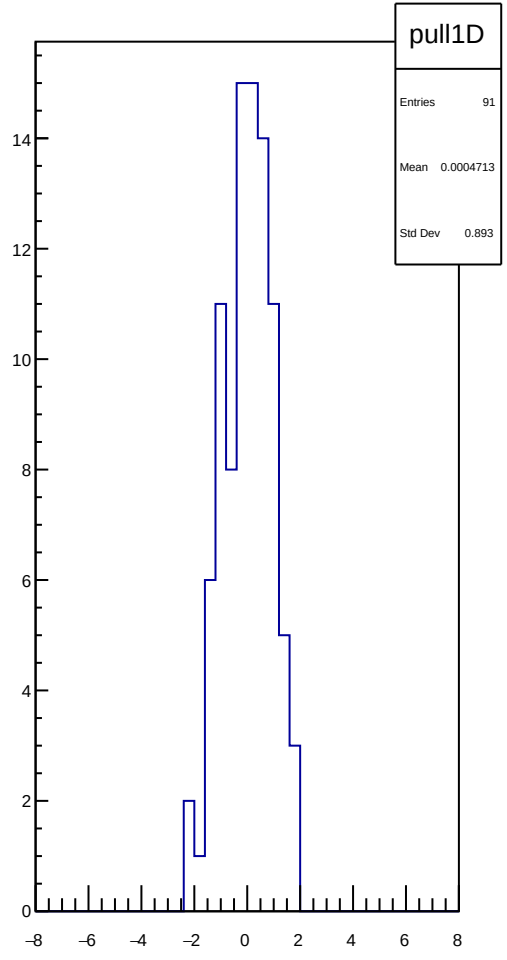

asym_sam2_correction_rms vs run
χ² / ndf 3796 / 90
p0 2343 ± 1.783
2700
2600
2500
2400
2300
2200
2100

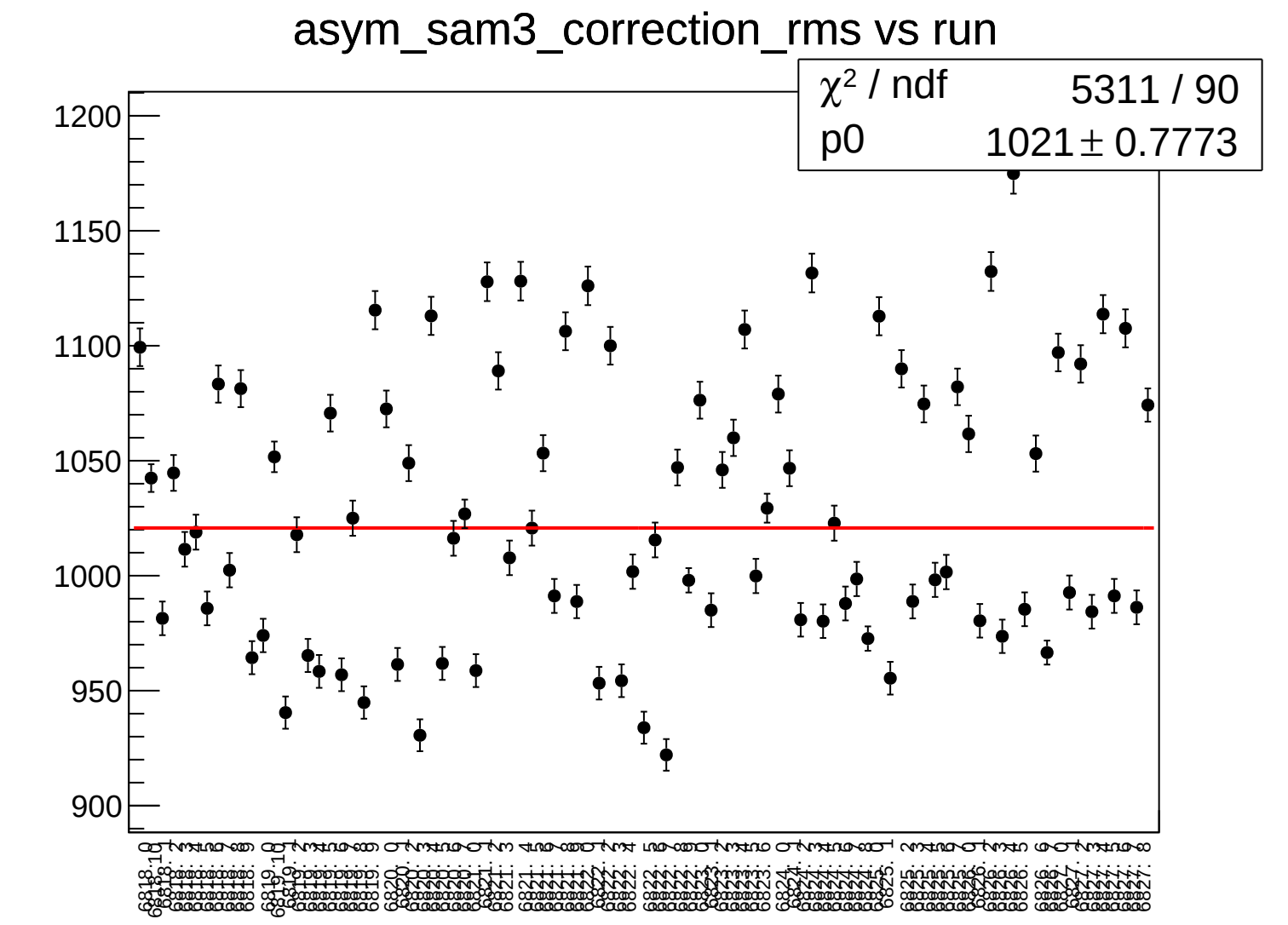

reg_asym_sam3_mean vs run
χ² / ndf 85.02 / 90
p0 −154.9 ± 102.2
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 427.2
Std Dev 370.3
3
2
1
0
−1
−2

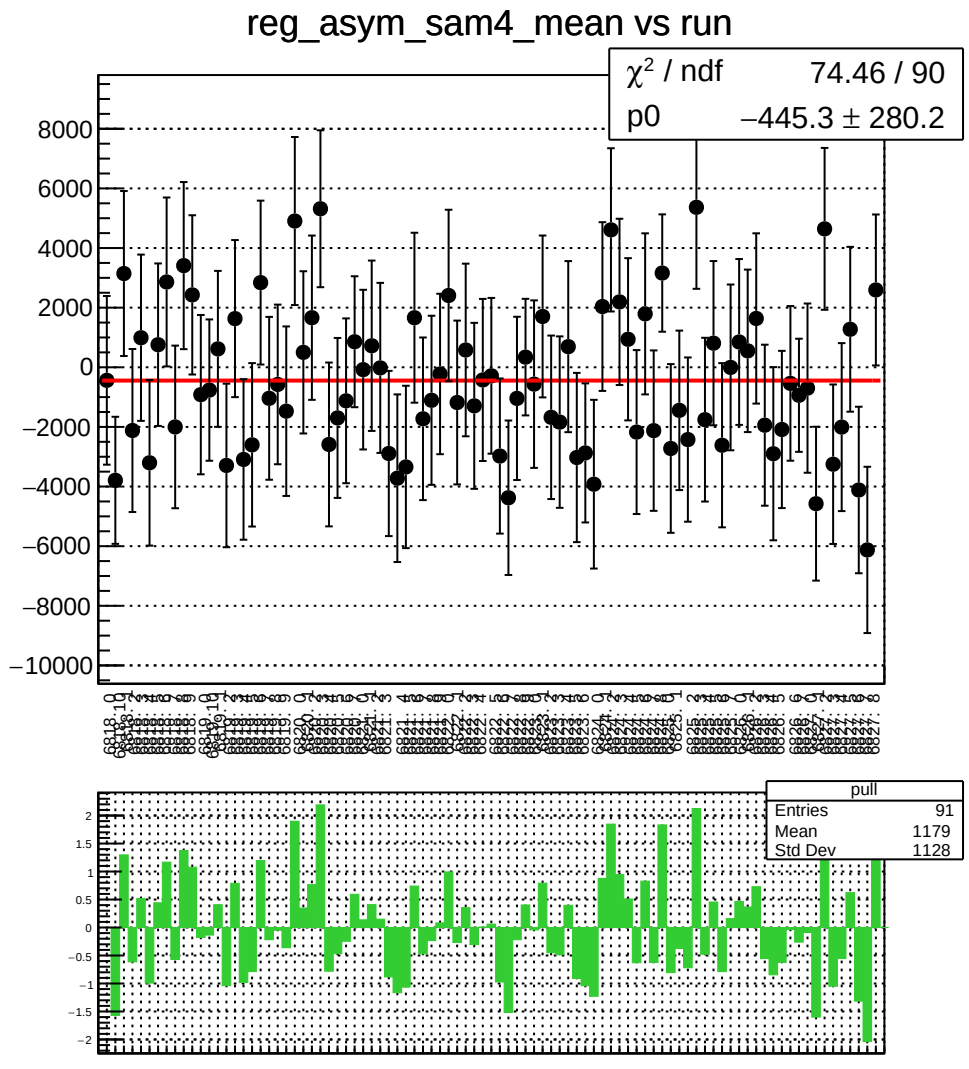

pull1D
Entries 91
Mean −0.005599
Std Dev 0.9666
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

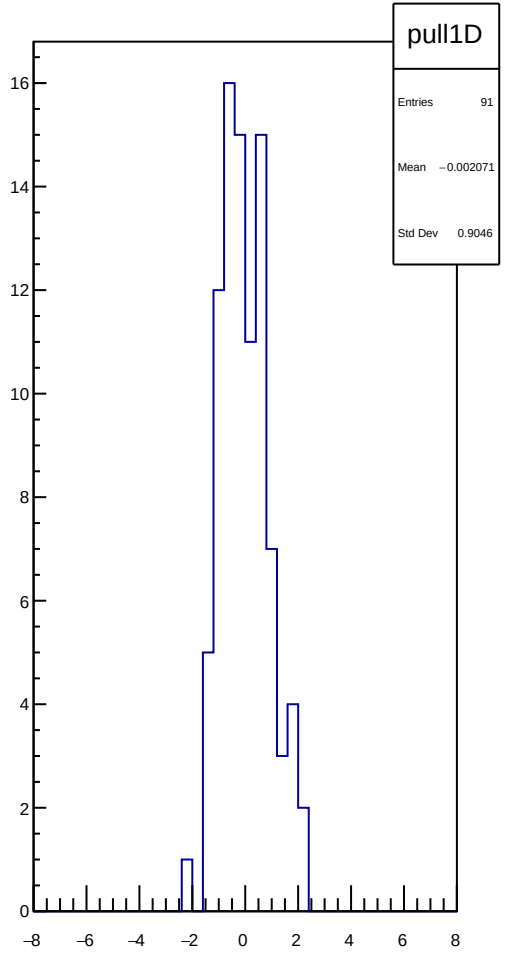

reg_asym_sam3_rms vs run
χ² / ndf 1.05e+04 / 90
p0 94.74 ± 0.07225
140
130
120
110
100
90
80

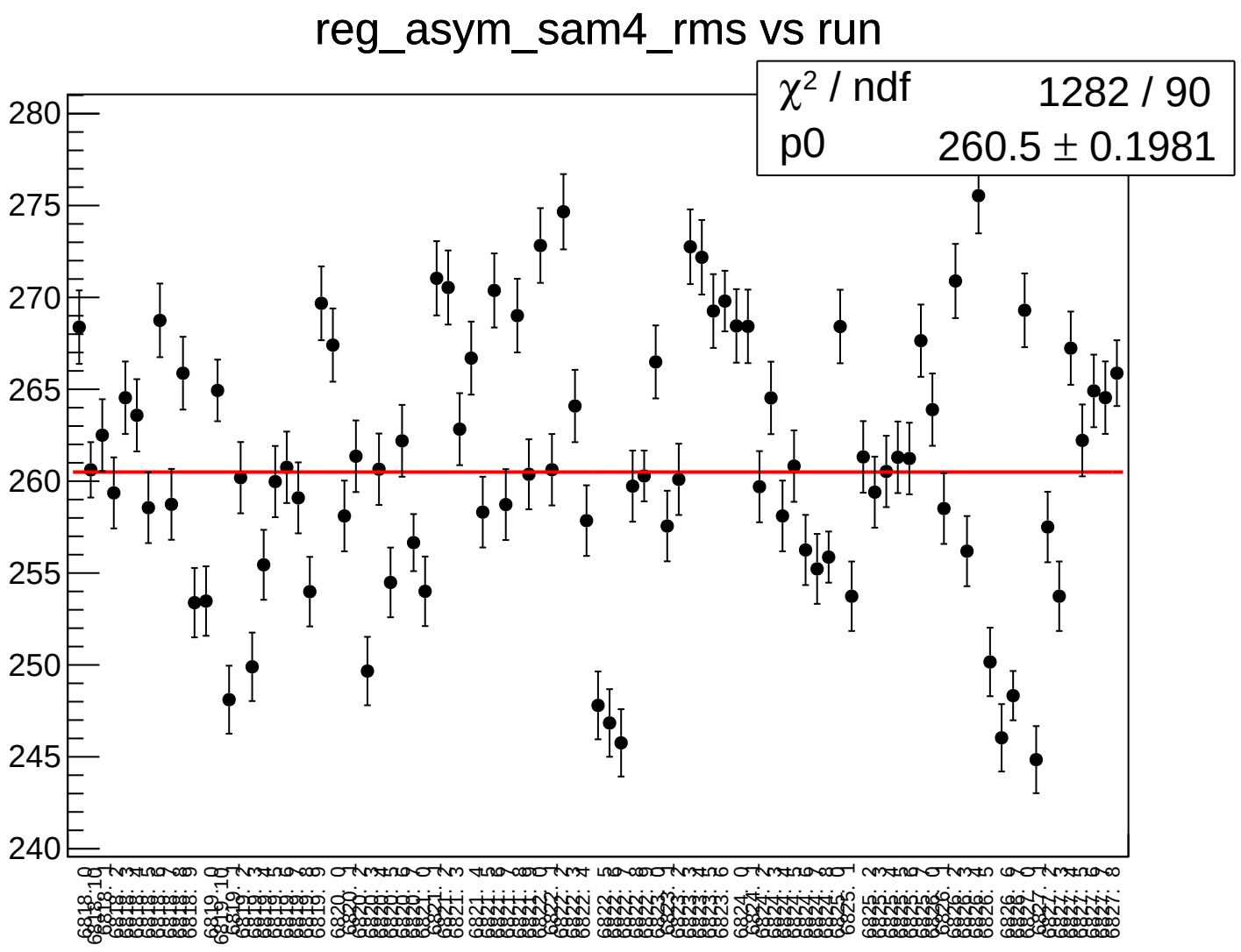

asym_sam3_correction_mean vs run
χ² / ndf 72.57 / 90
p0 −1525 ± 1099
pull
Entries 91
Mean 4592
Std Dev 4560

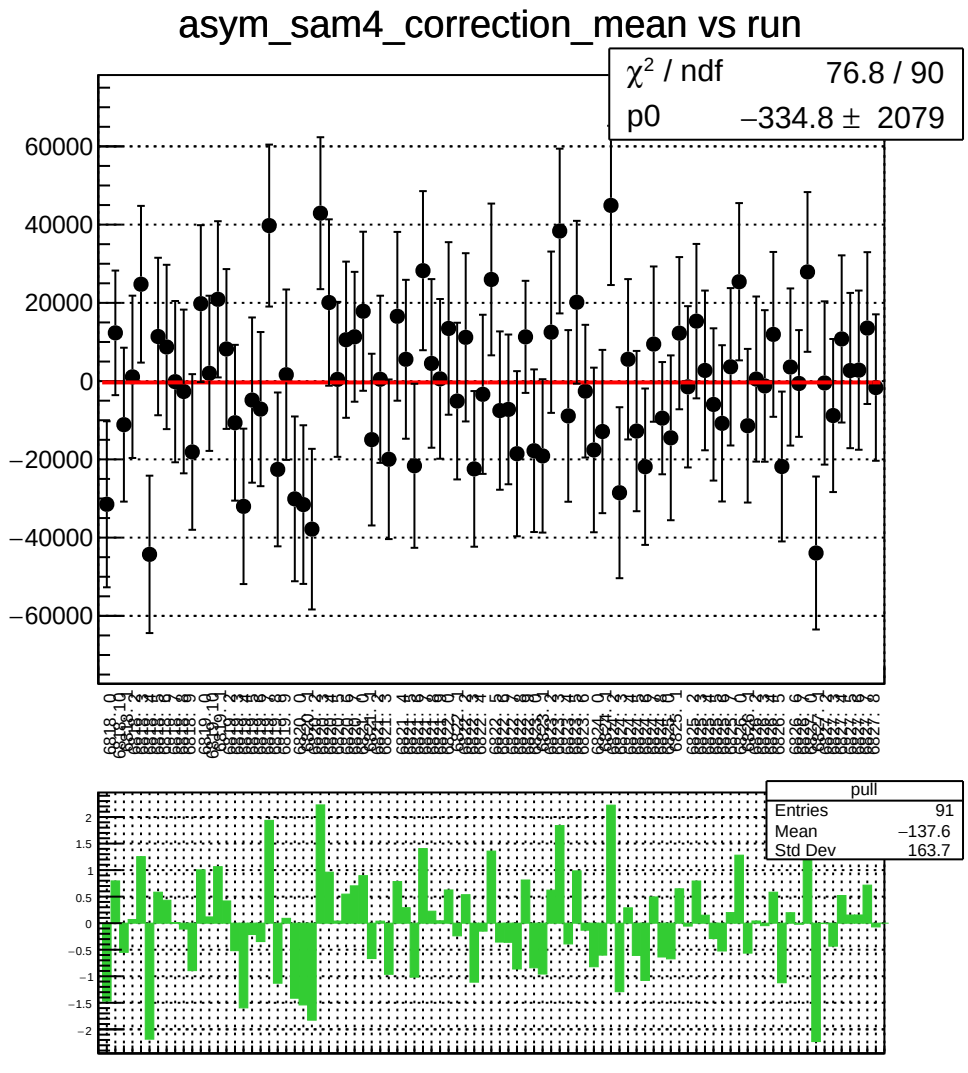

pull1D
Entries 91
Mean 0.0004713
Std Dev 0.893

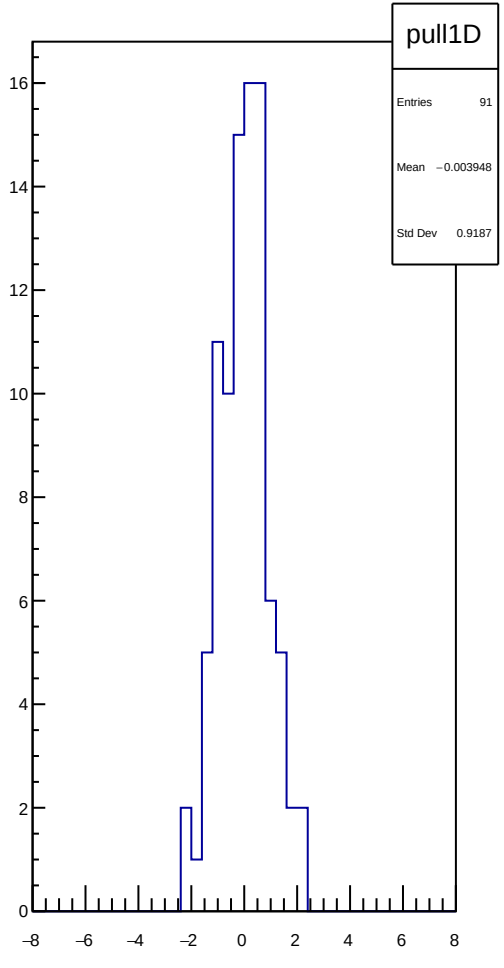

asym_sam3_correction_rms vs run
χ² / ndf 5311 / 90
p0 1021 ± 0.7773
1200
1150
1100
1050
1000
950
900

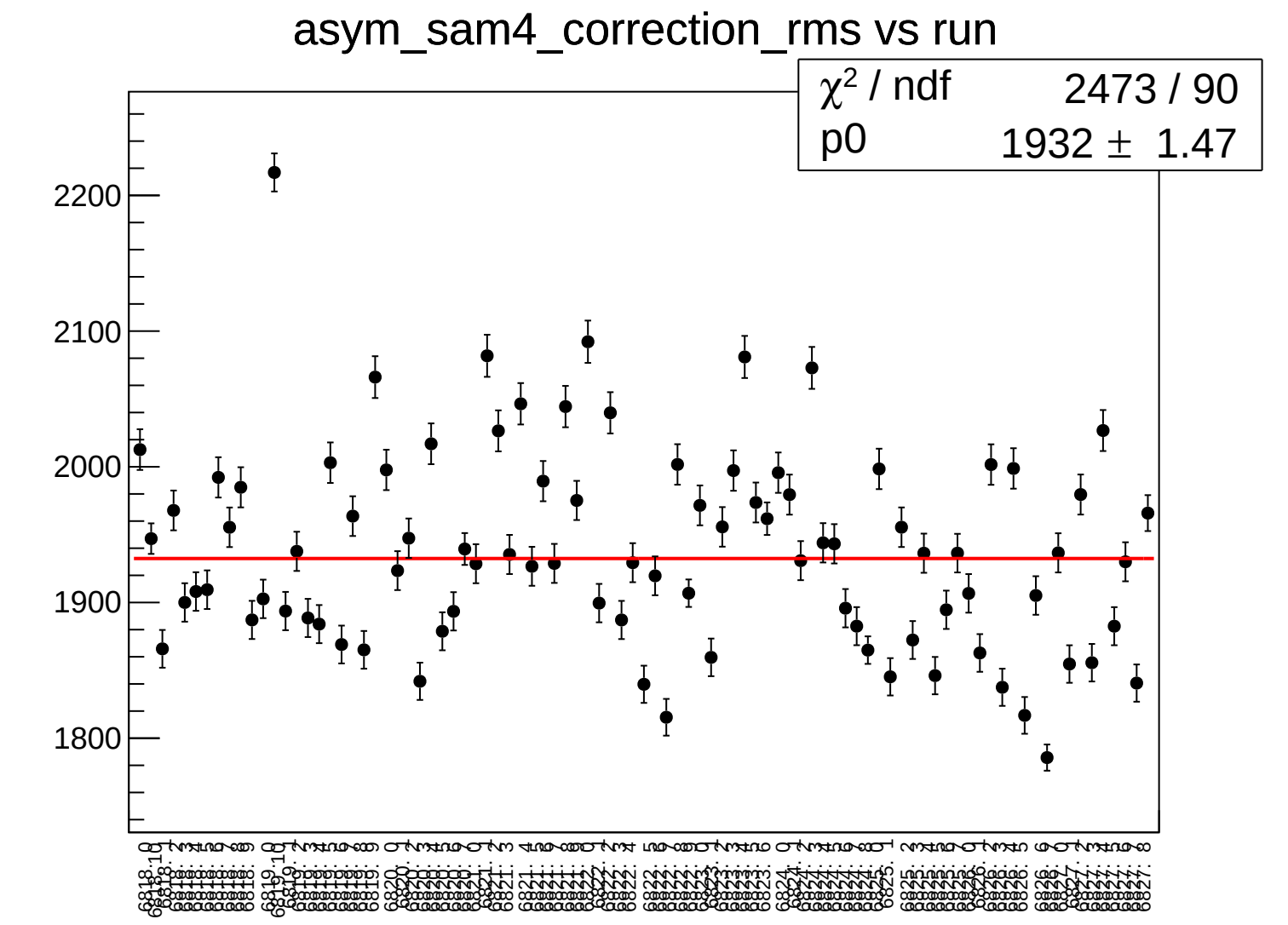

reg_asym_sam4_mean vs run
χ² / ndf 74.46 / 90
p0 −445.3 ± 280.2
pull
Entries 91
Mean 1179
Std Dev 1128

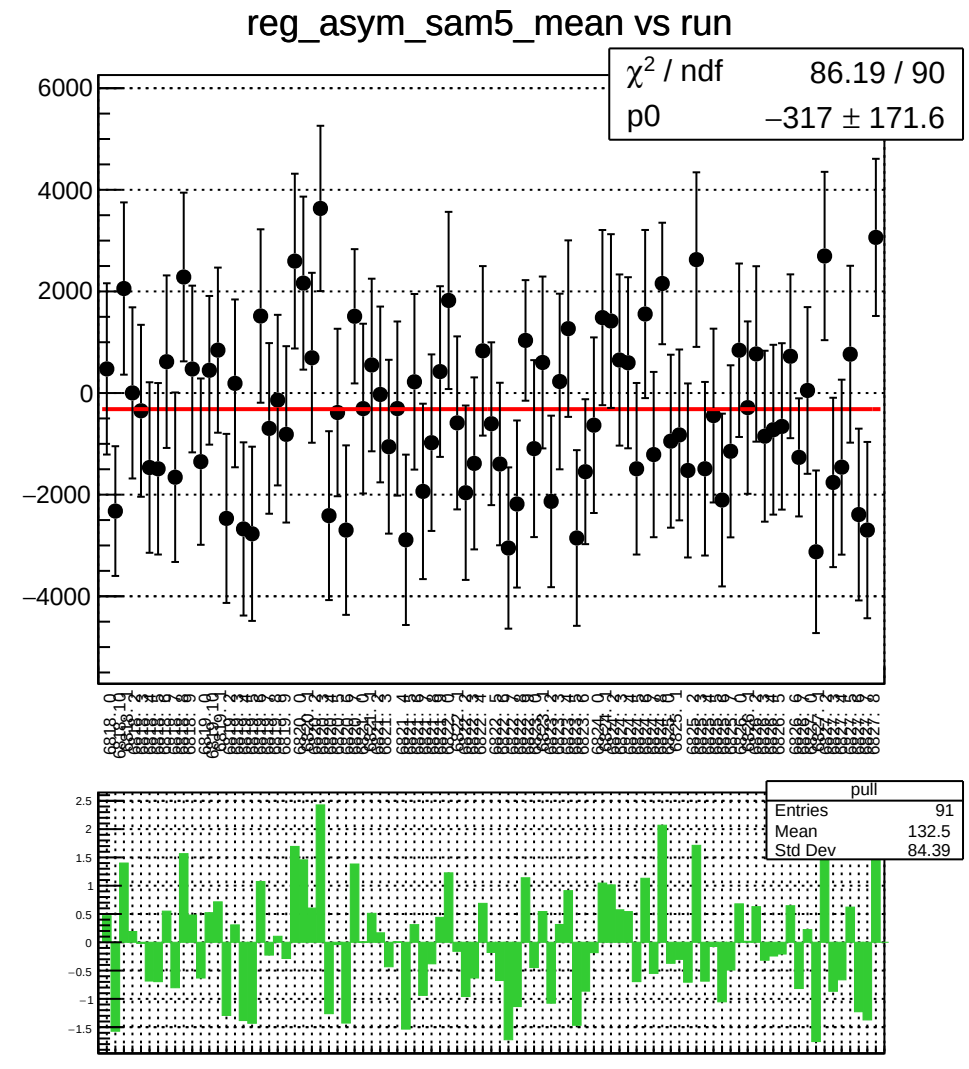

pull1D
Entries 91
Mean −0.002071
Std Dev 0.9046

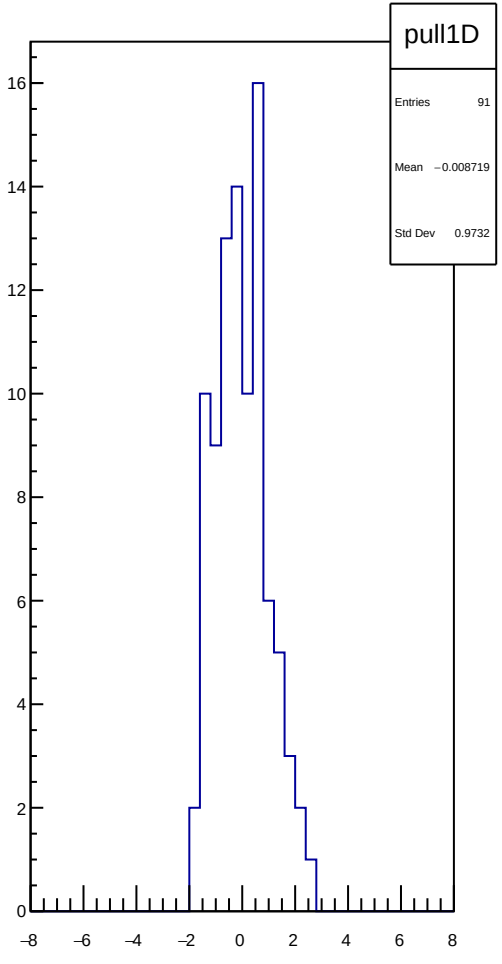

reg_asym_sam4_rms vs run
χ² / ndf 1282 / 90
p0 260.5 ± 0.1981
280
275
270
265
260
255
250
245
240

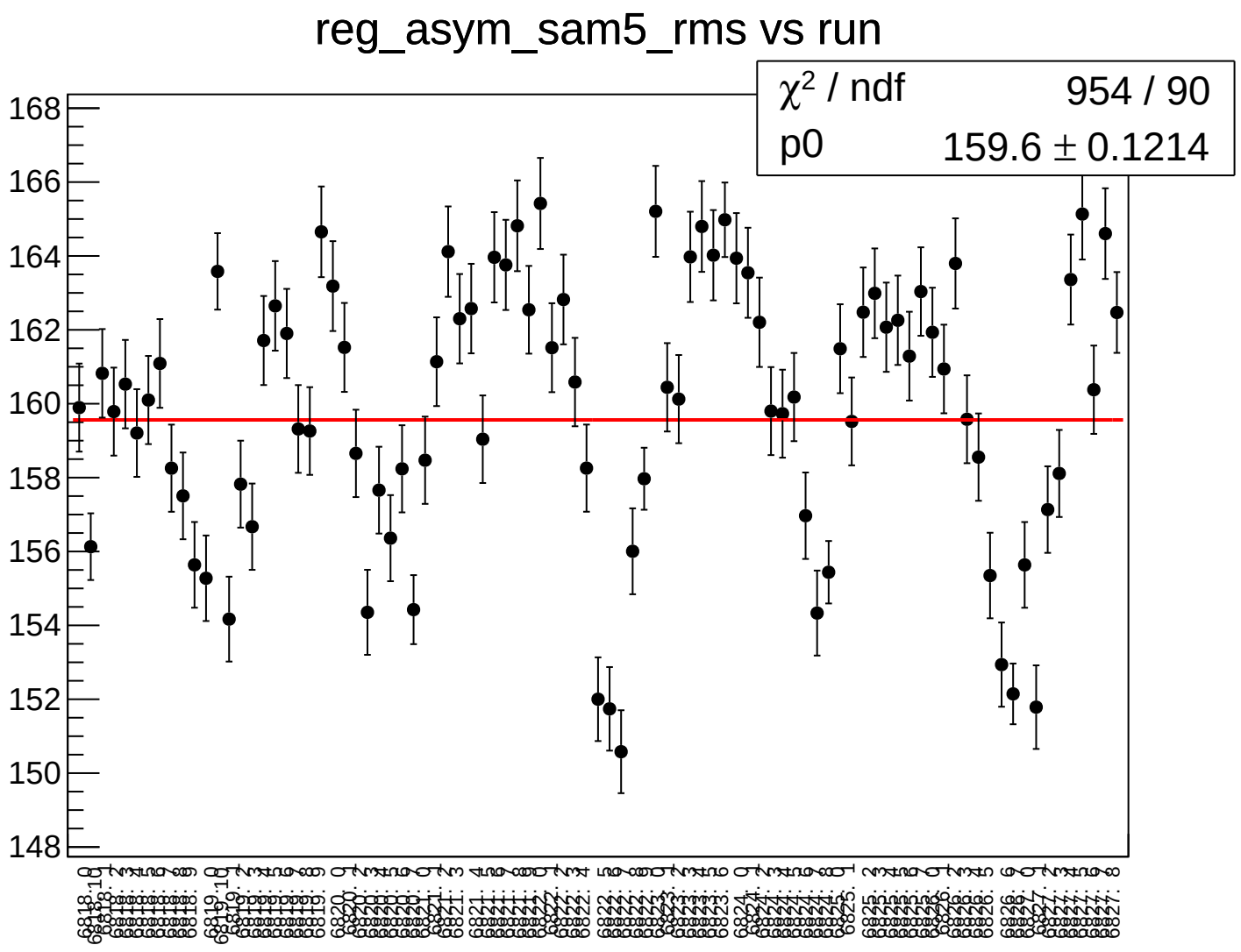

asym_sam4_correction_mean vs run
χ² / ndf 76.8 / 90
p0 −334.8 ± 2079
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −137.6
Std Dev 163.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

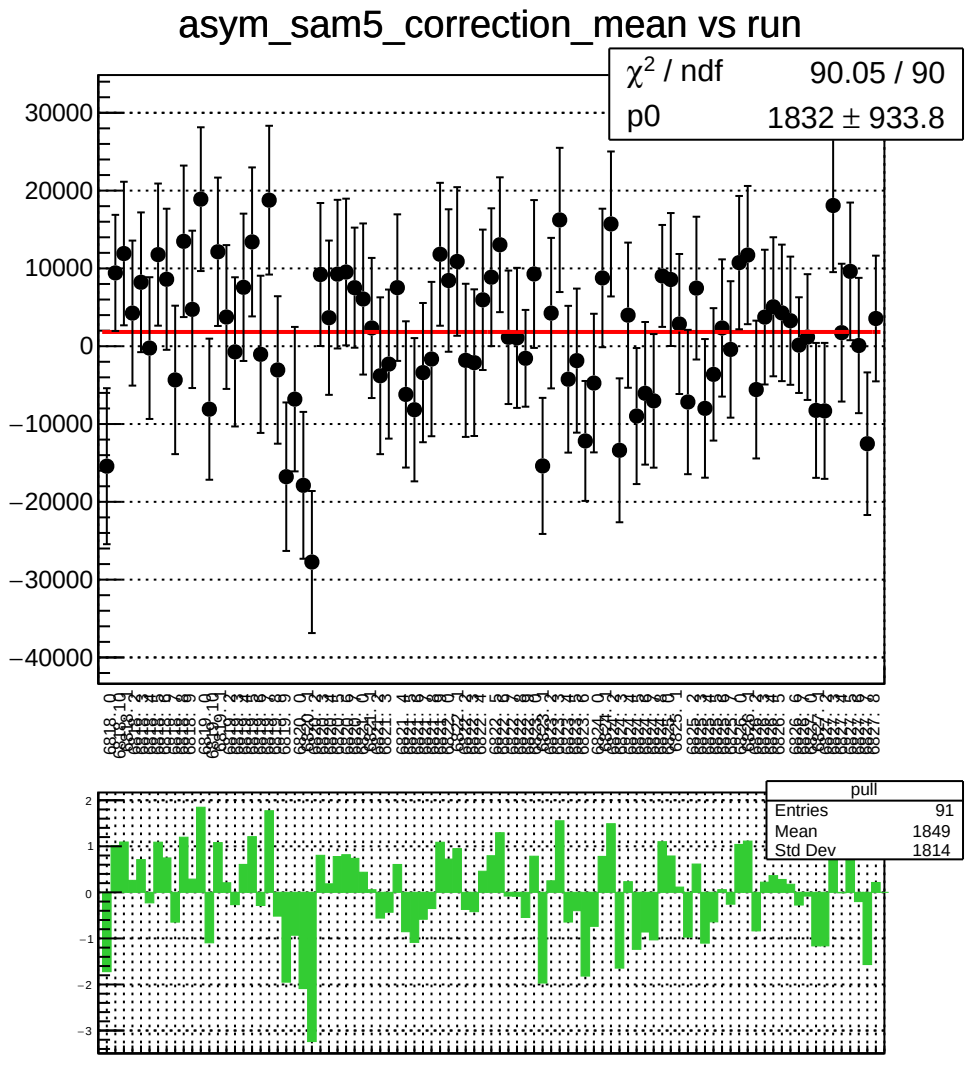

pull1D
Entries 91
Mean −0.003948
Std Dev 0.9187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

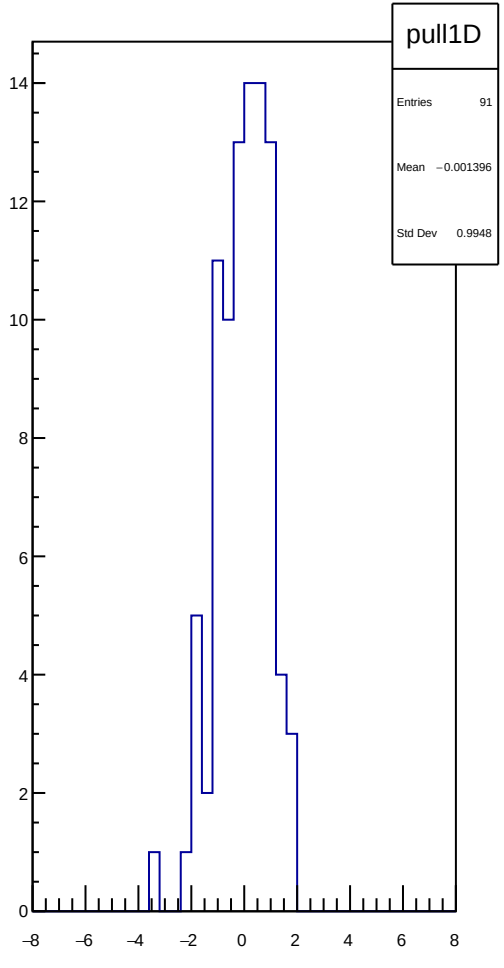

asym_sam4_correction_rms vs run
χ² / ndf 2473 / 90
p0 1932 ± 1.47
2200
2100
2000
1900
1800

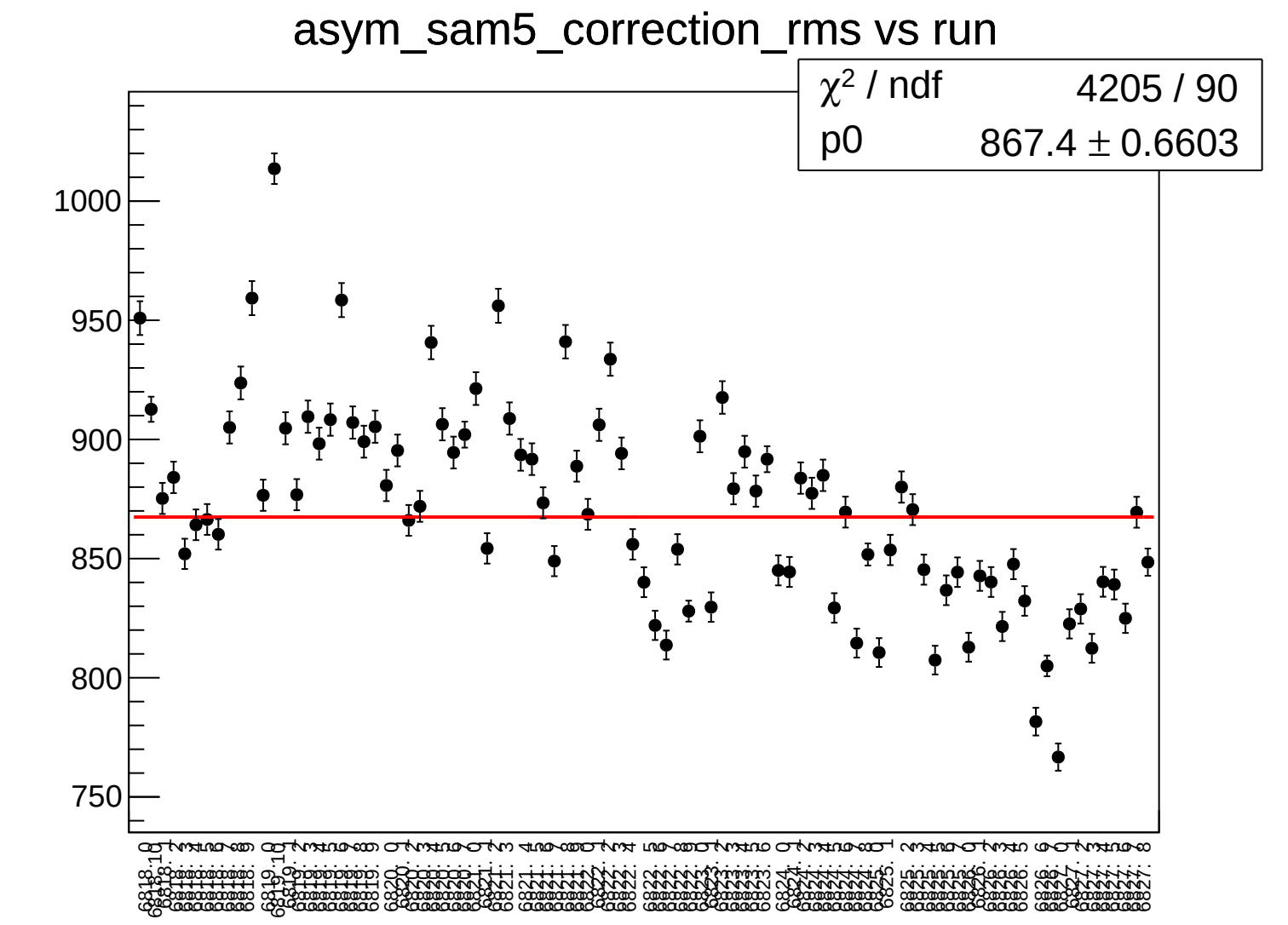

reg_asym_sam5_mean vs run
χ² / ndf 86.19 / 90
p0 −317 ± 171.6
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 132.5
Std Dev 84.39
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

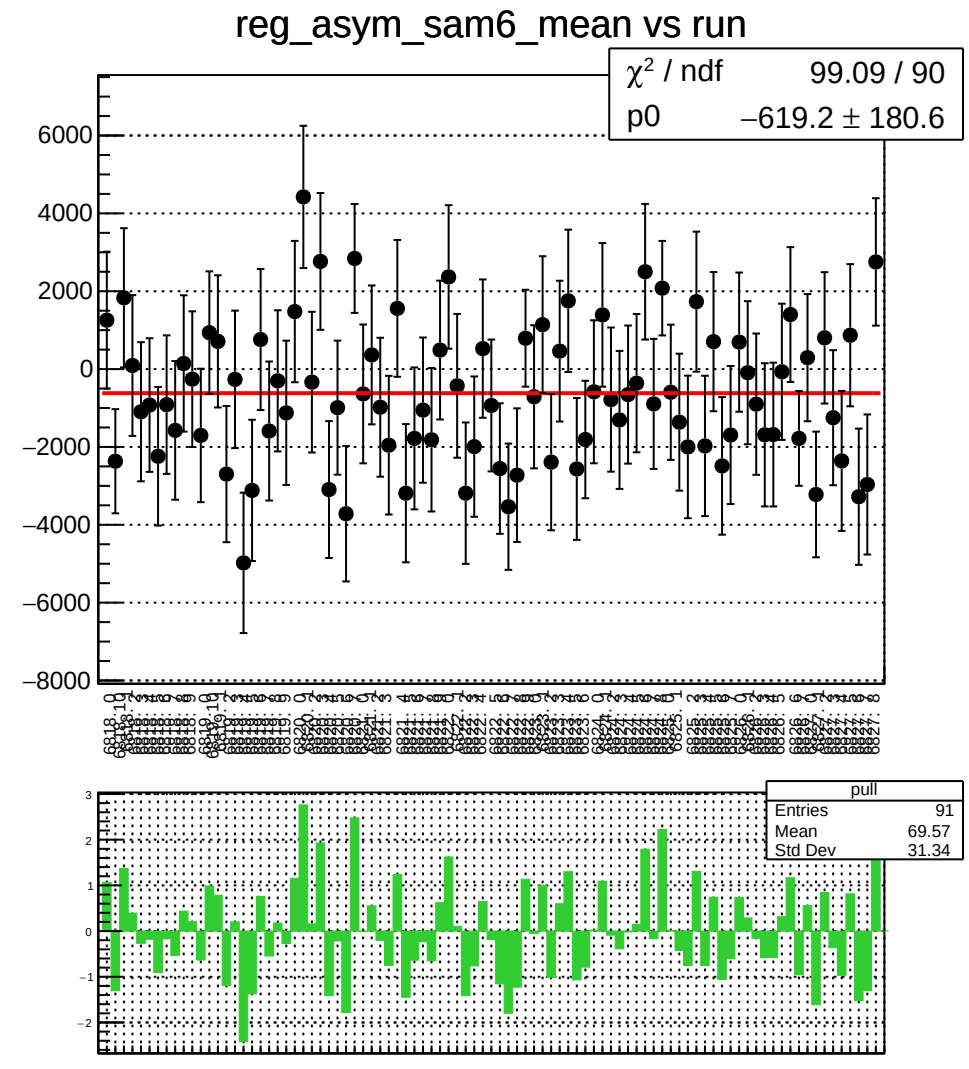

pull1D
Entries 91
Mean −0.008719
Std Dev 0.9732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

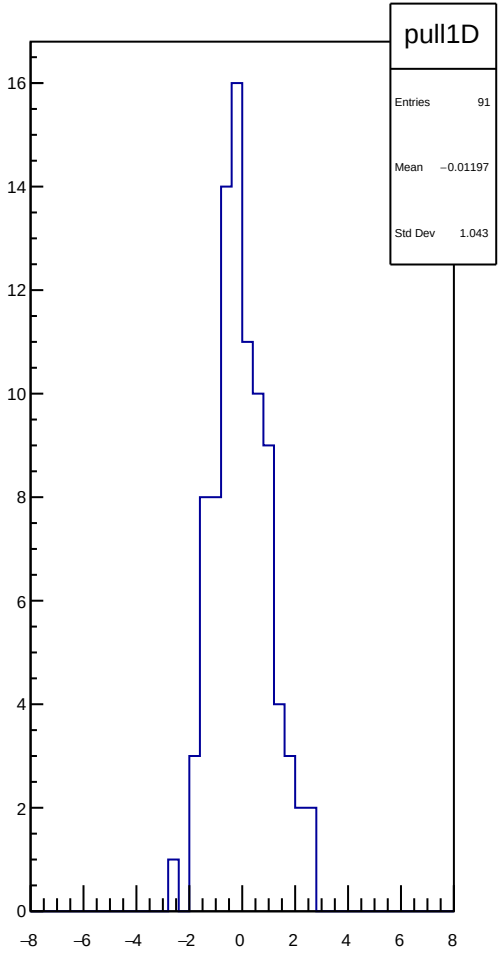

reg_asym_sam5_rms vs run
χ² / ndf 954 / 90
p0 159.6 ± 0.1214
168
166
164
162
160
158
156
154
152
150
148

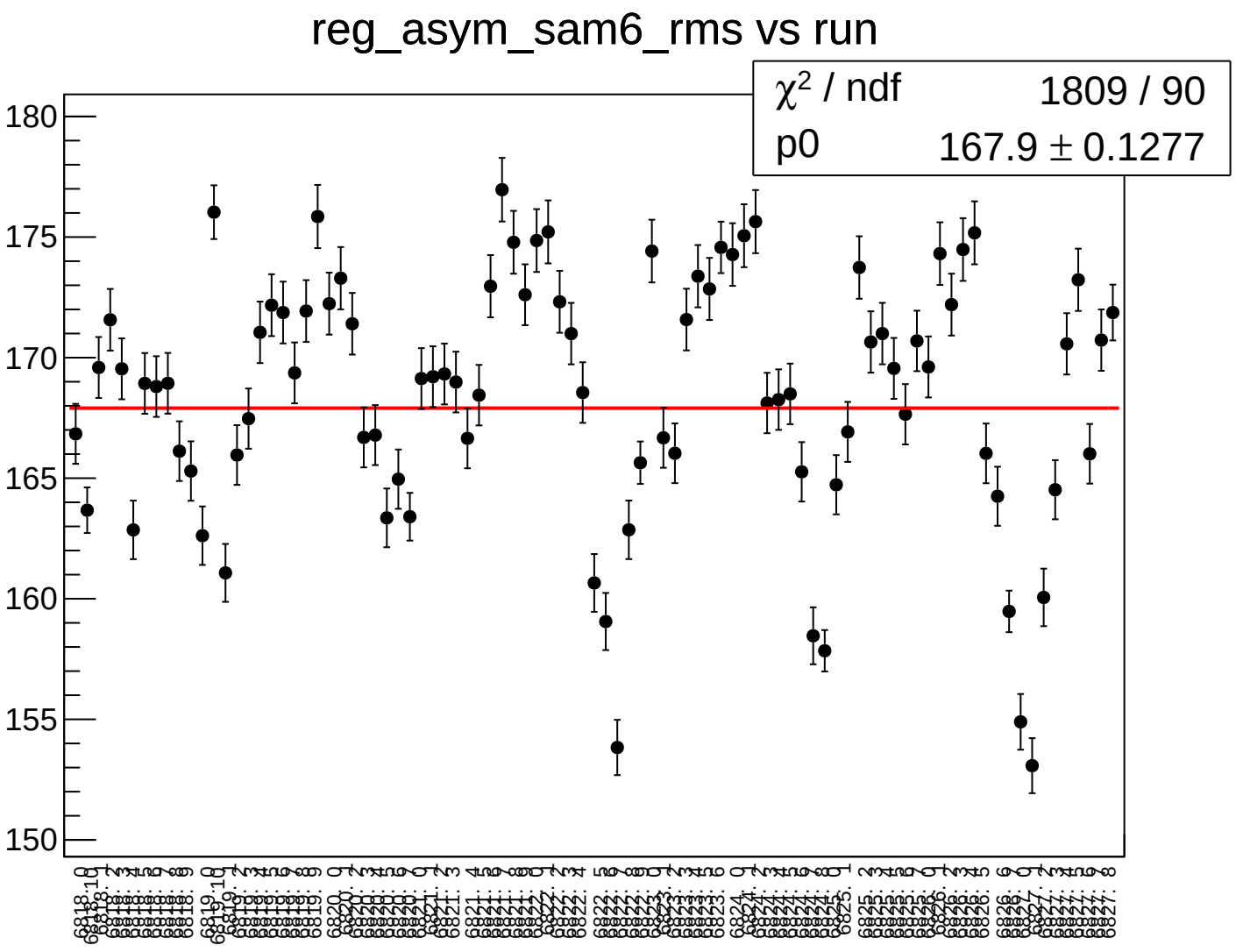

asym_sam5_correction_mean vs run
χ² / ndf 90.05 / 90
p0 1832 ± 933.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 1849
Std Dev 1814
2
1
0
−1
−2
−3

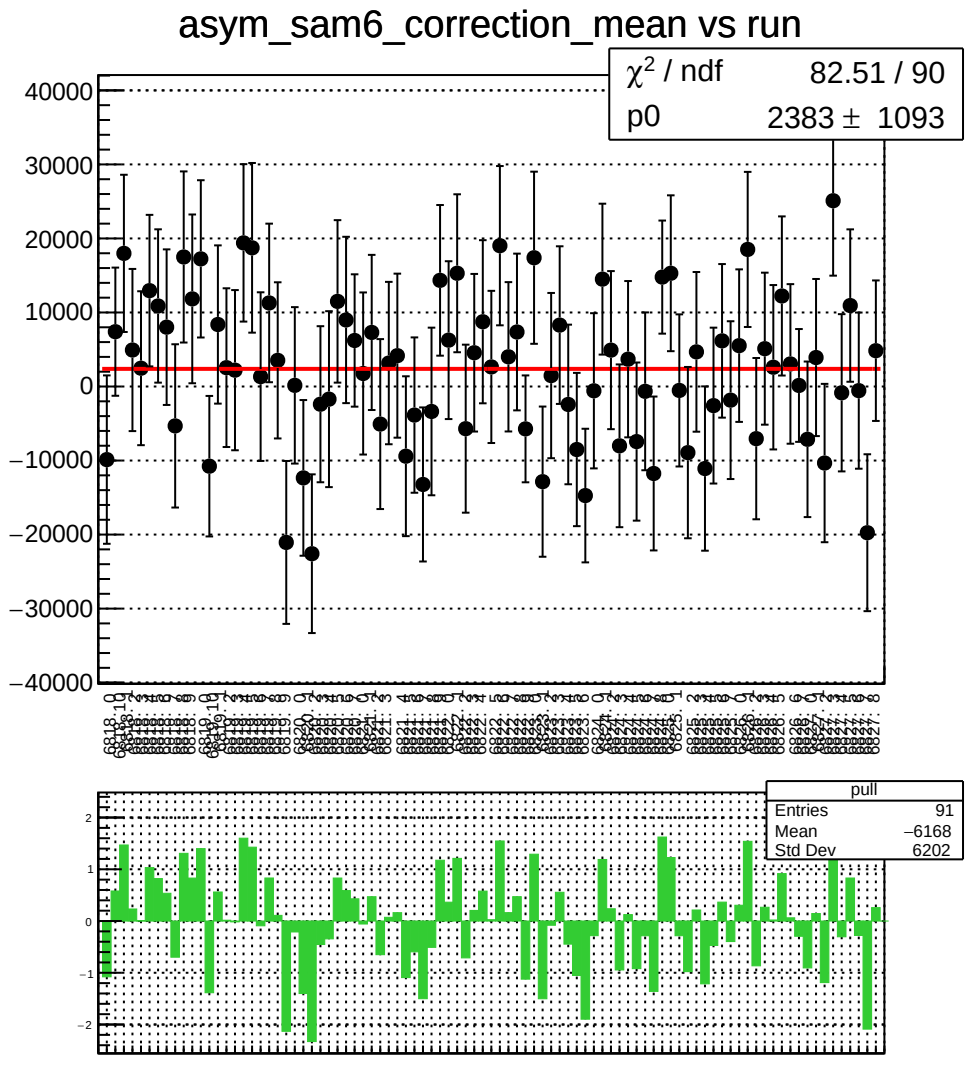

pull1D
Entries 91
Mean −0.001396
Std Dev 0.9948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

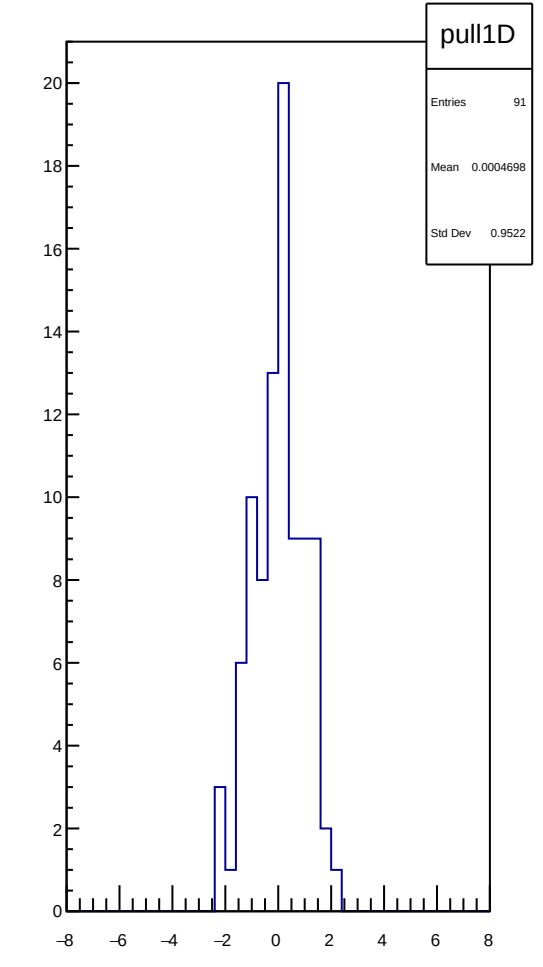

asym_sam5_correction_rms vs run
χ² / ndf 4205 / 90
p0 867.4 ± 0.6603
1000
950
900
850
800
750


reg_asym_sam6_mean vs run
χ² / ndf 99.09 / 90
p0 −619.2 ± 180.6
pull
Entries 91
Mean 69.57
Std Dev 31.34

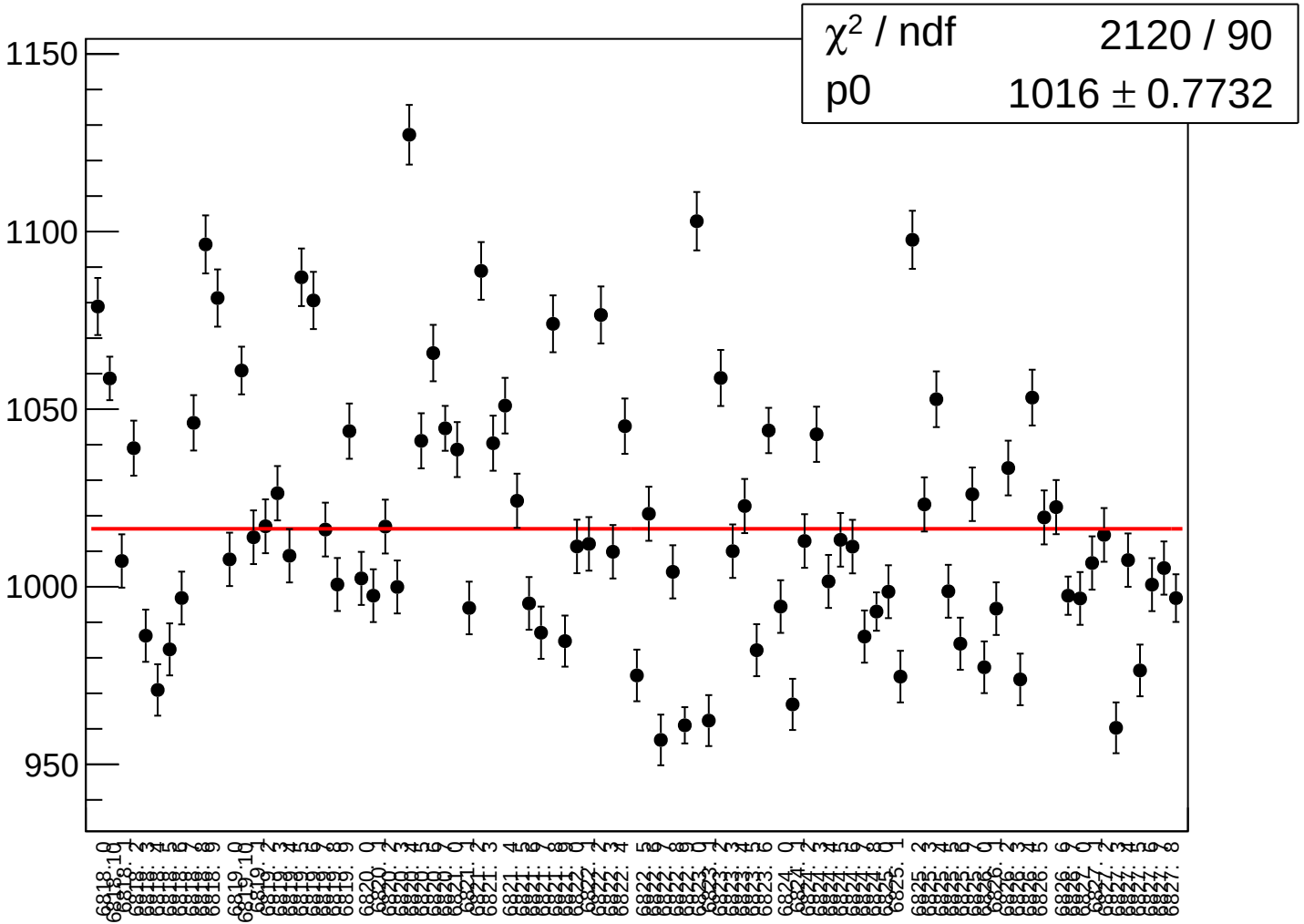

pull1D
Entries 91
Mean −0.01197
Std Dev 1.043

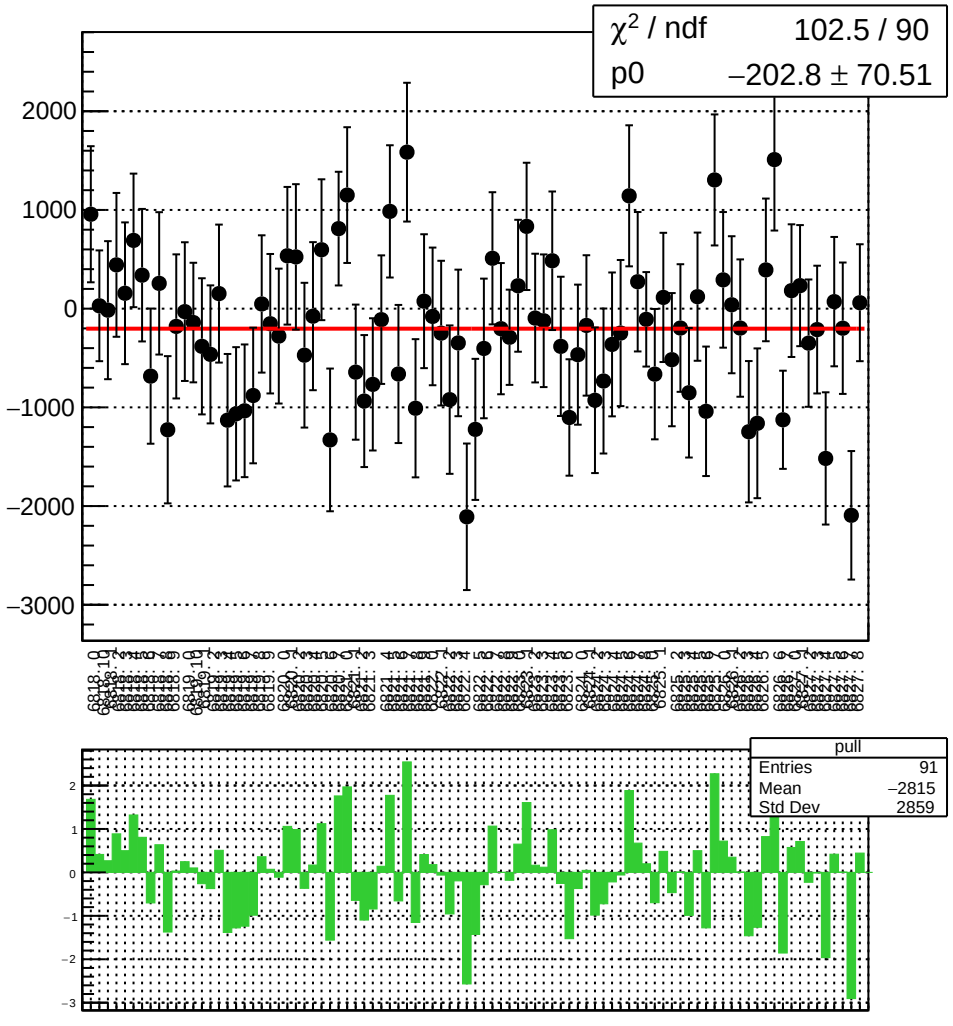

reg_asym_sam6_rms vs run
χ² / ndf 1809 / 90
p0 167.9 ± 0.1277
180
175
170
165
160
155
150

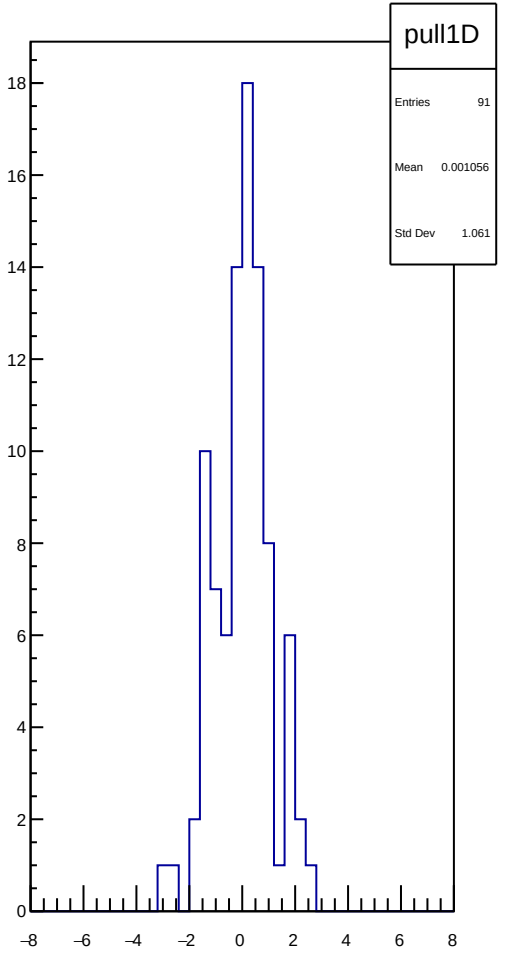

asym_sam6_correction_mean vs run
χ² / ndf 82.51 / 90
p0 2383 ± 1093
pull
Entries 91
Mean −6168
Std Dev 6202

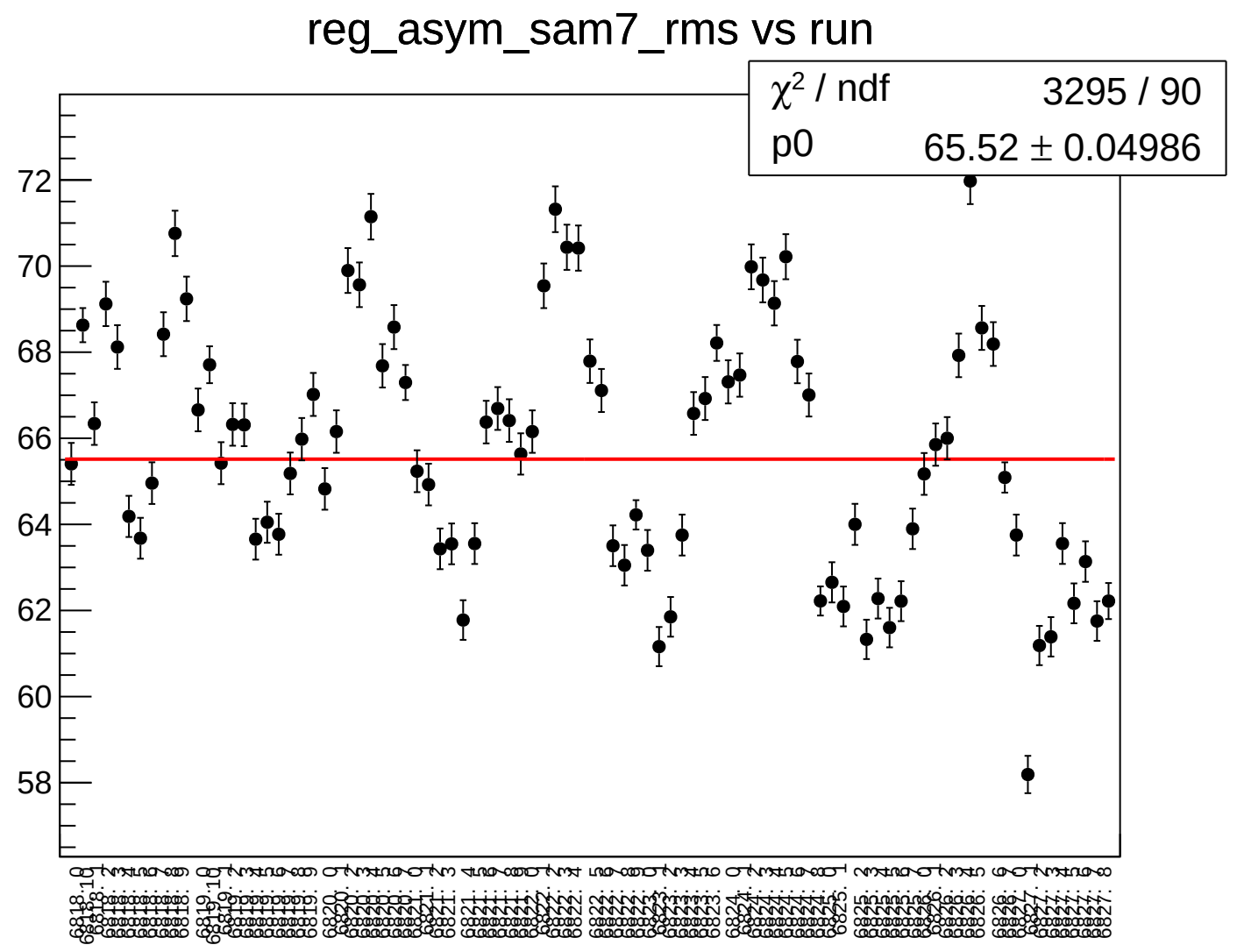

pull1D
Entries 91
Mean 0.0004698
Std Dev 0.9522

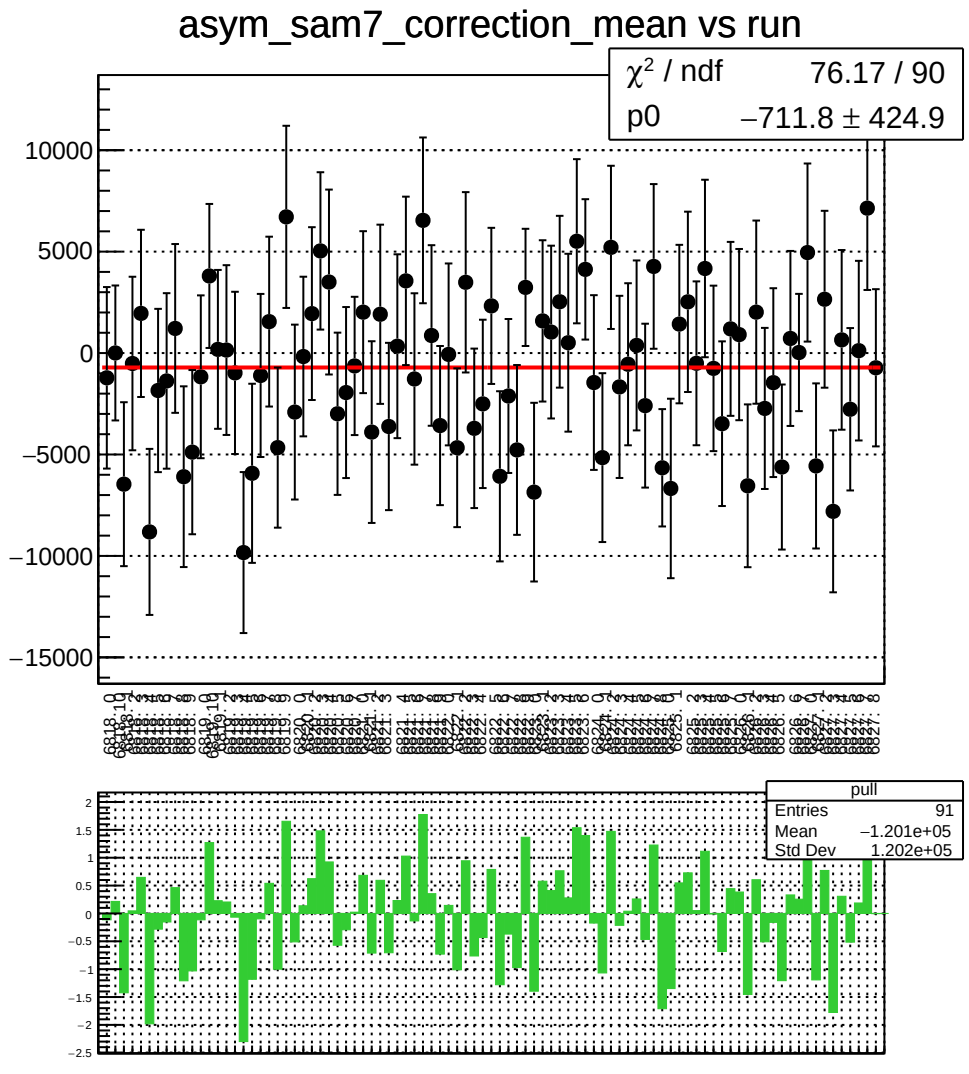
asym_sam6_correction_rms vs run

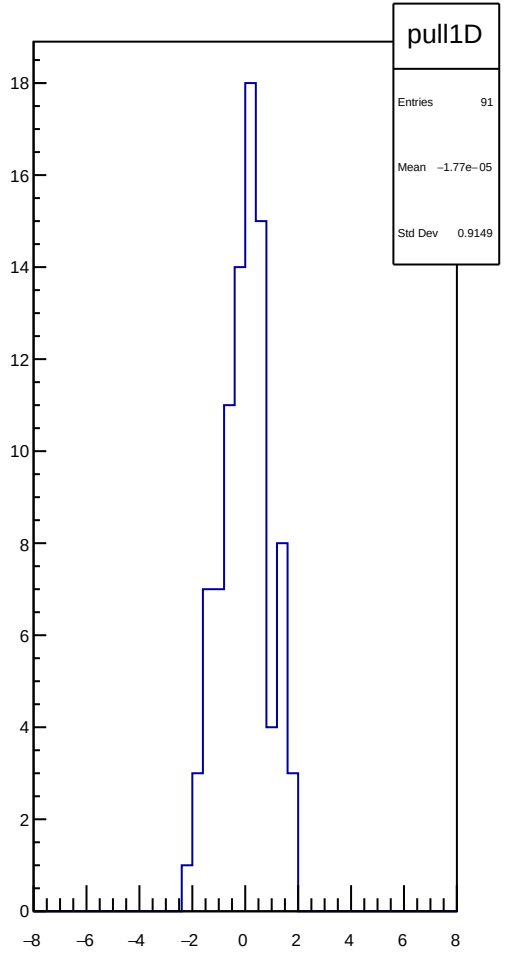


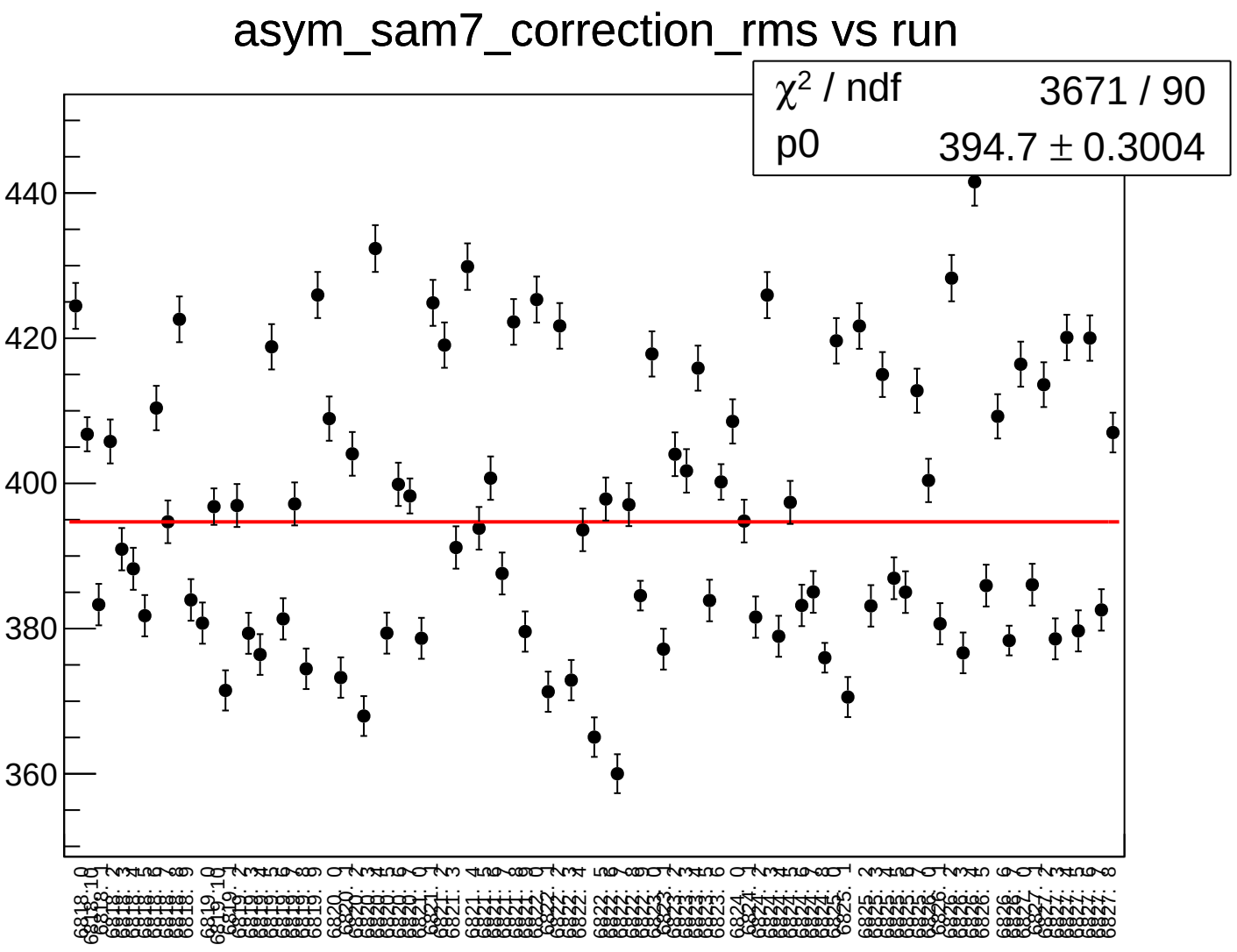

reg_asym_sam7_mean vs run
χ² / ndf 102.5 / 90
p0 −202.8 ± 70.51
pull
Entries 91
Mean −2815
Std Dev 2859

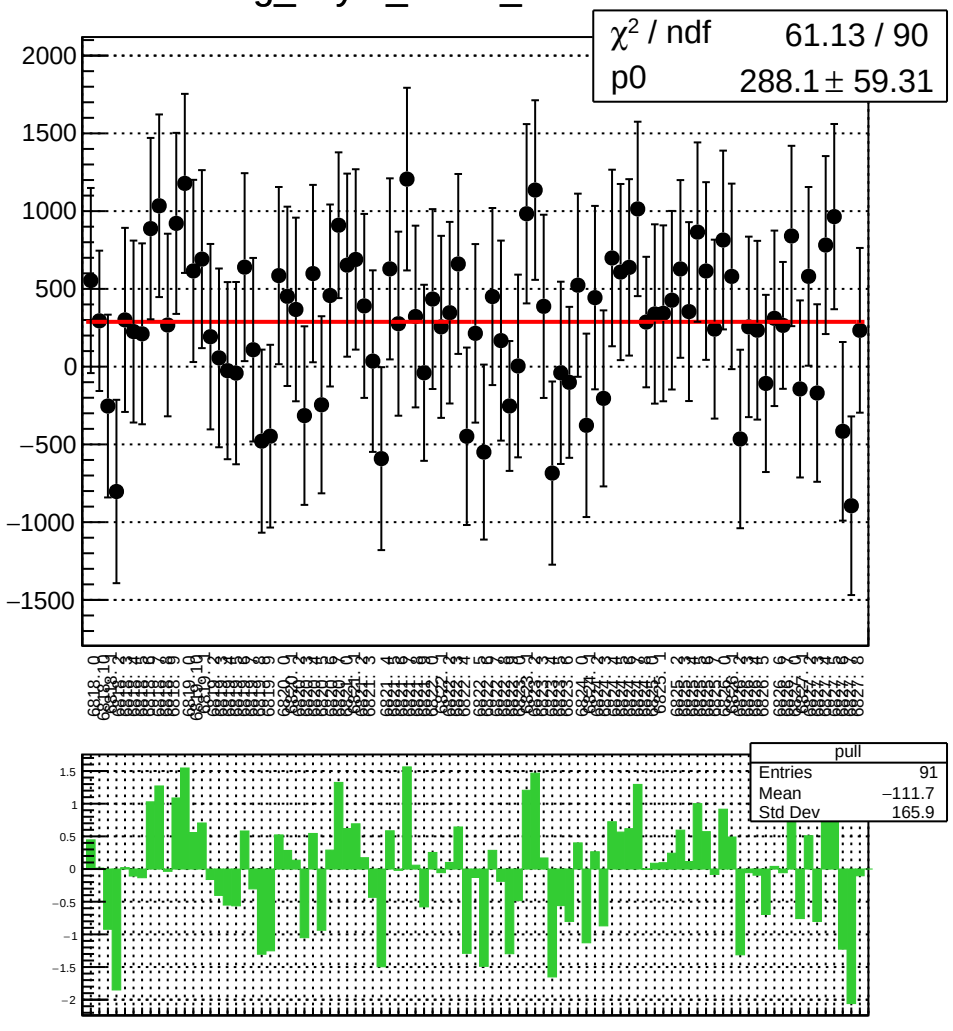

pull1D
Entries 91
Mean 0.001056
Std Dev 1.061

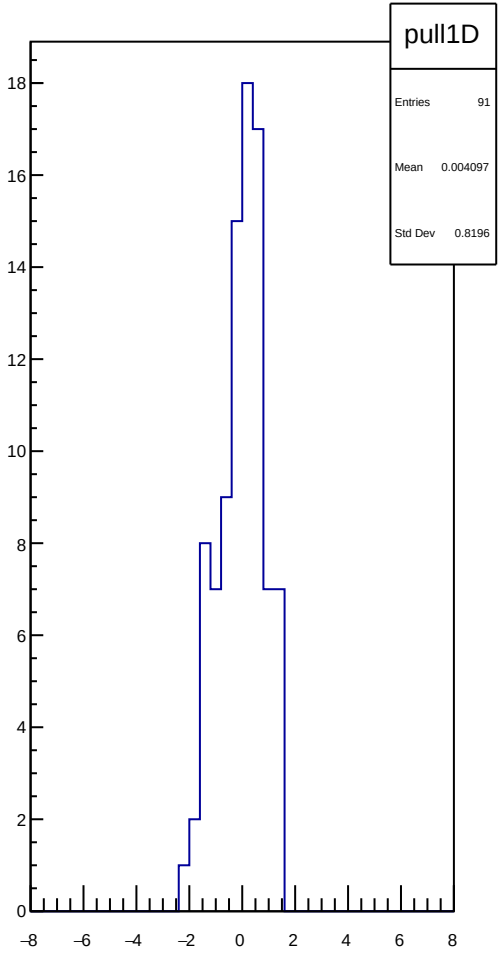

reg_asym_sam7_rms vs run
χ² / ndf 3295 / 90
p0 65.52 ± 0.04986
72
70
68
66
64
62
60
58

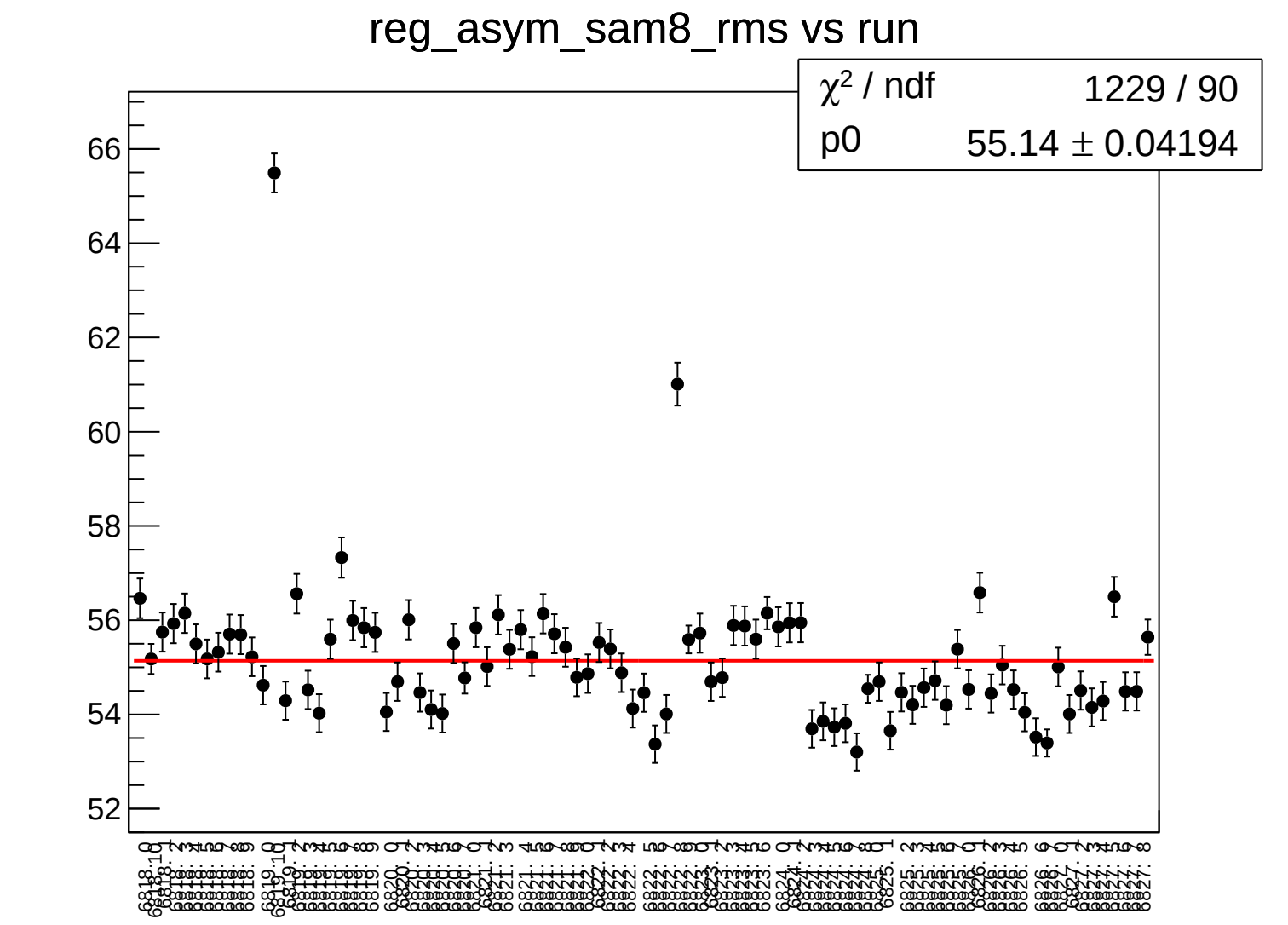

asym_sam7_correction_mean vs run
χ² / ndf 76.17 / 90
p0 −711.8 ± 424.9
pull
Entries 91
Mean −1.201e+05
Std Dev 1.202e+05

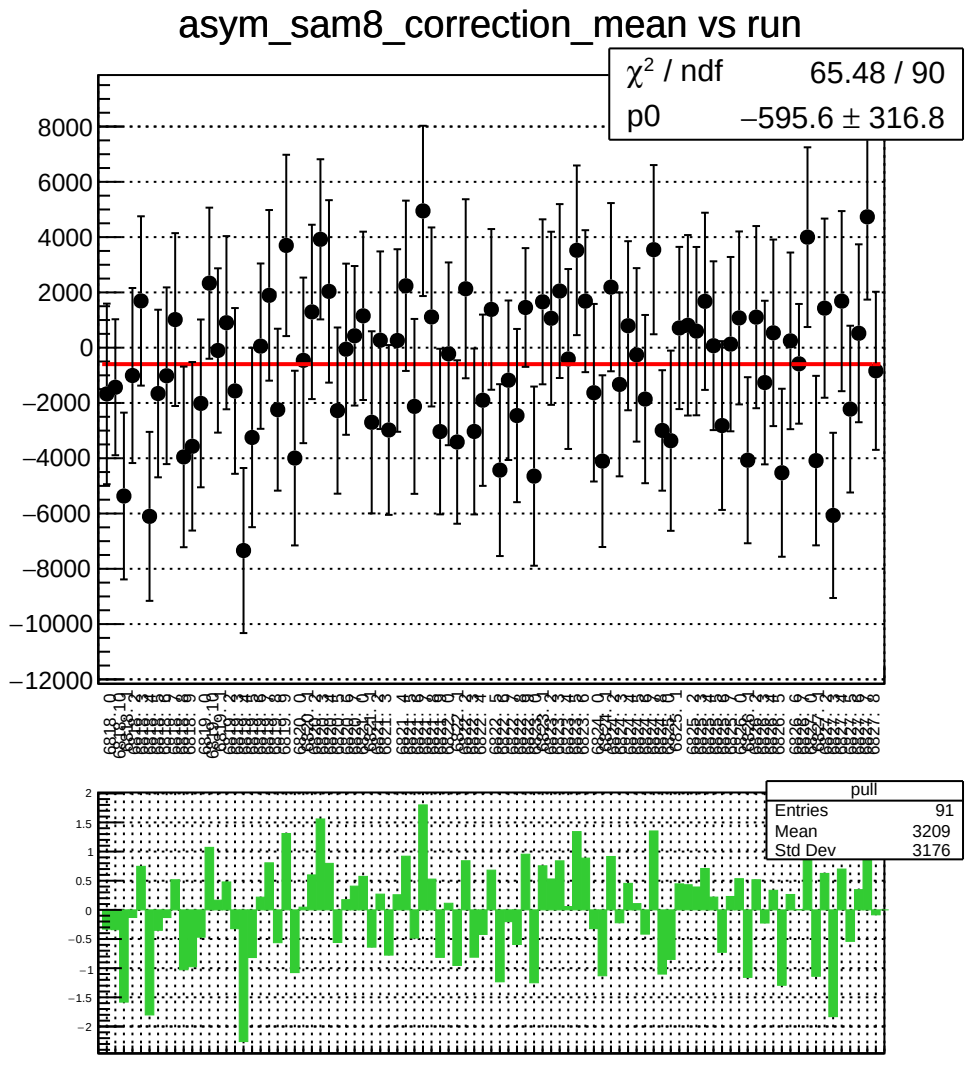

pull1D
Entries 91
Mean −1.77e−05
Std Dev 0.9149

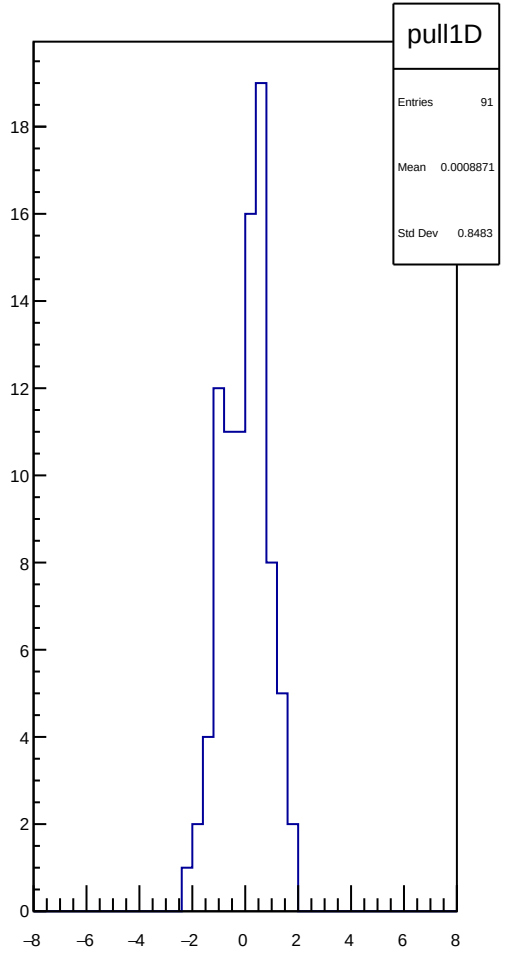

asym_sam7_correction_rms vs run
χ^2 / ndf 3671 / 90
p0 394.7 ± 0.3004
440
420
400
380
360

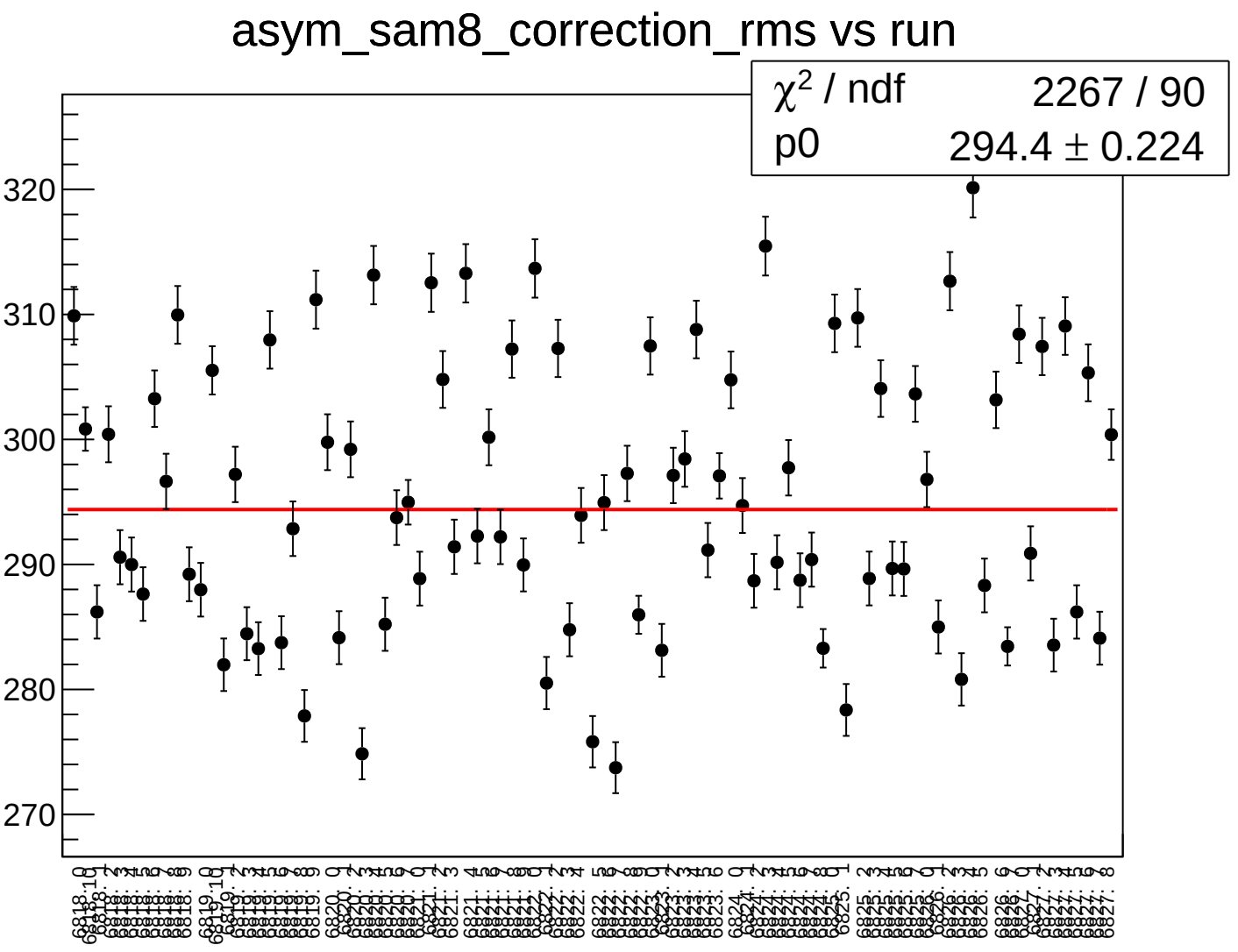

reg_asym_sam8_mean vs run
χ² / ndf 61.13 / 90
p0 288.1 ± 59.31
pull
Entries 91
Mean −111.7
Std Dev 165.9

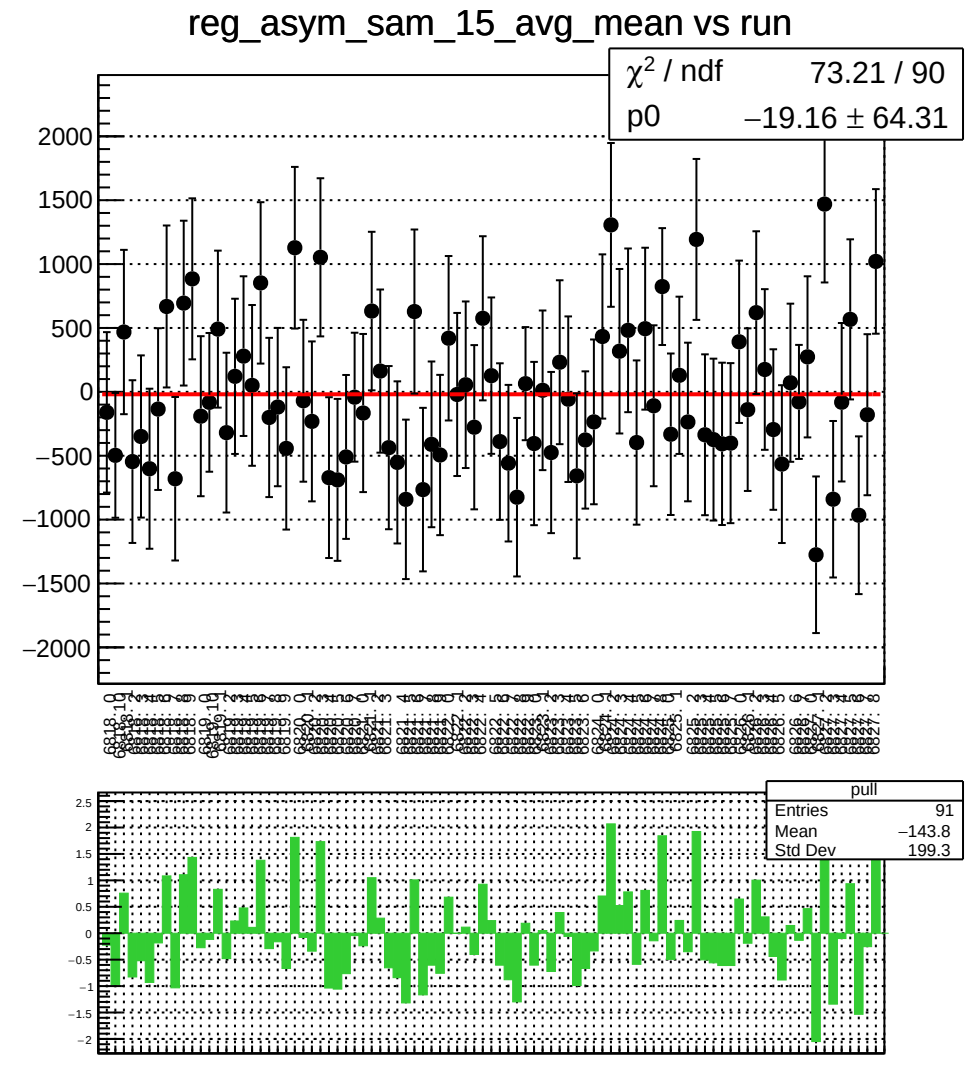

pull1D
Entries 91
Mean 0.004097
Std Dev 0.8196

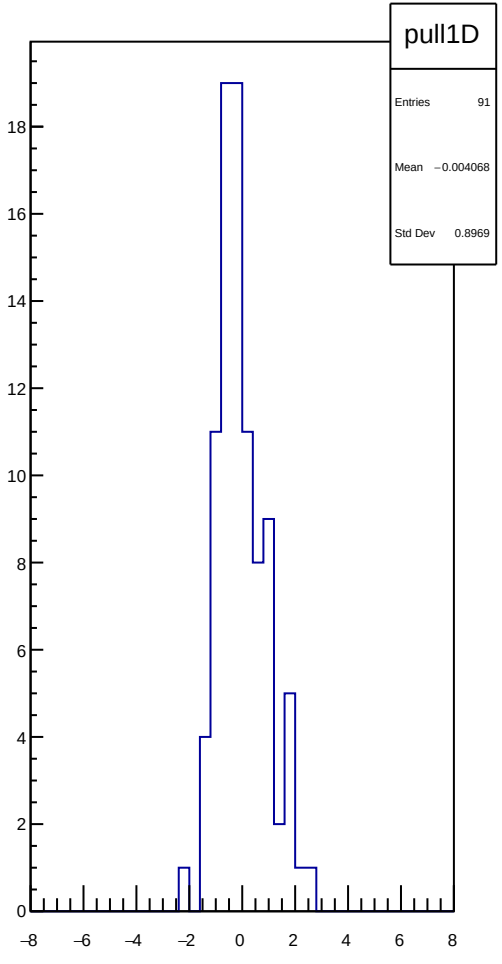

reg_asym_sam8_rms vs run
χ² / ndf 1229 / 90
p0 55.14 ± 0.04194
66
64
62
60
58
56
54
52

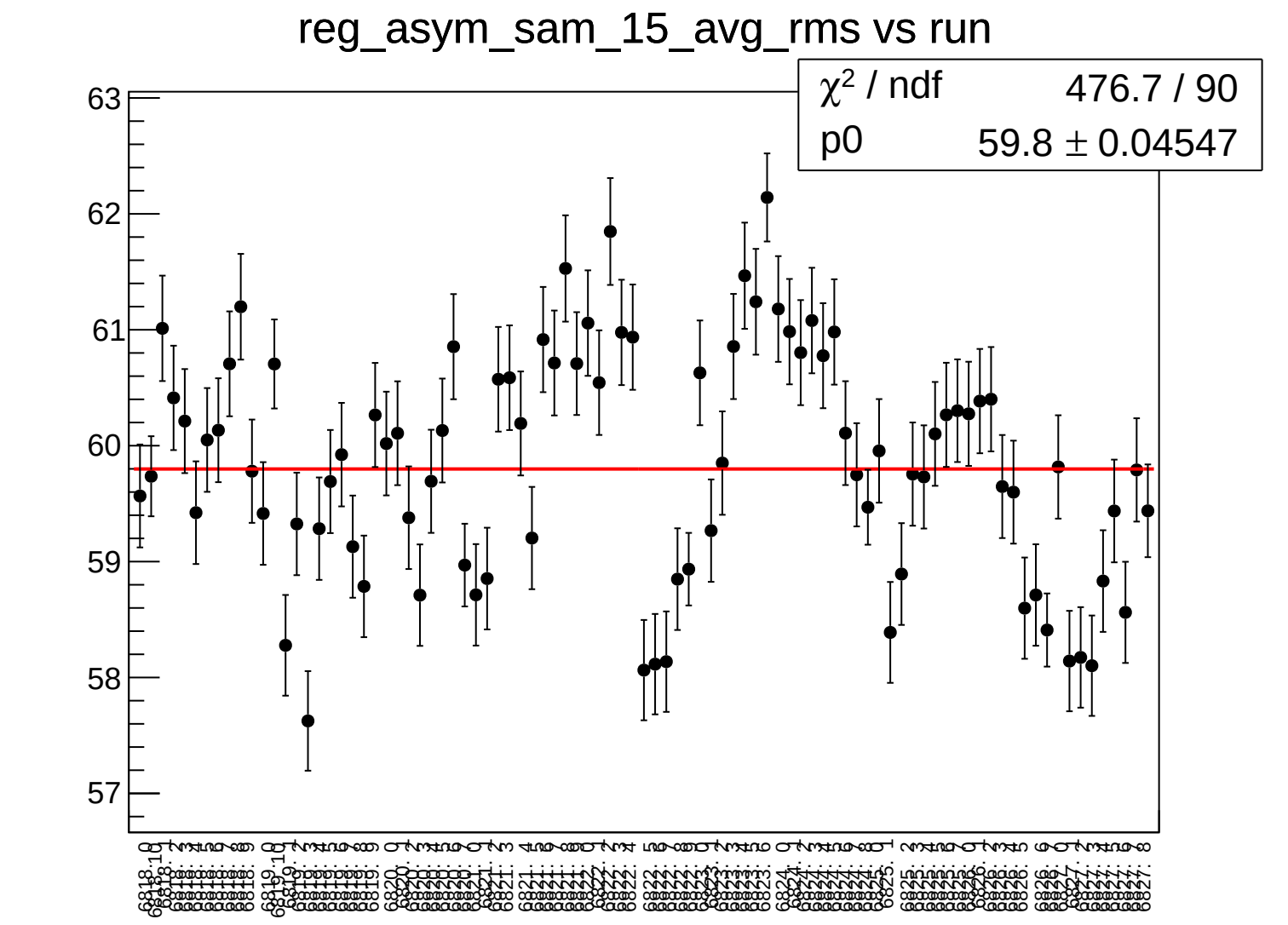

asym_sam8_correction_mean vs run
χ² / ndf 65.48 / 90
p0 −595.6 ± 316.8
pull
Entries 91
Mean 3209
Std Dev 3176

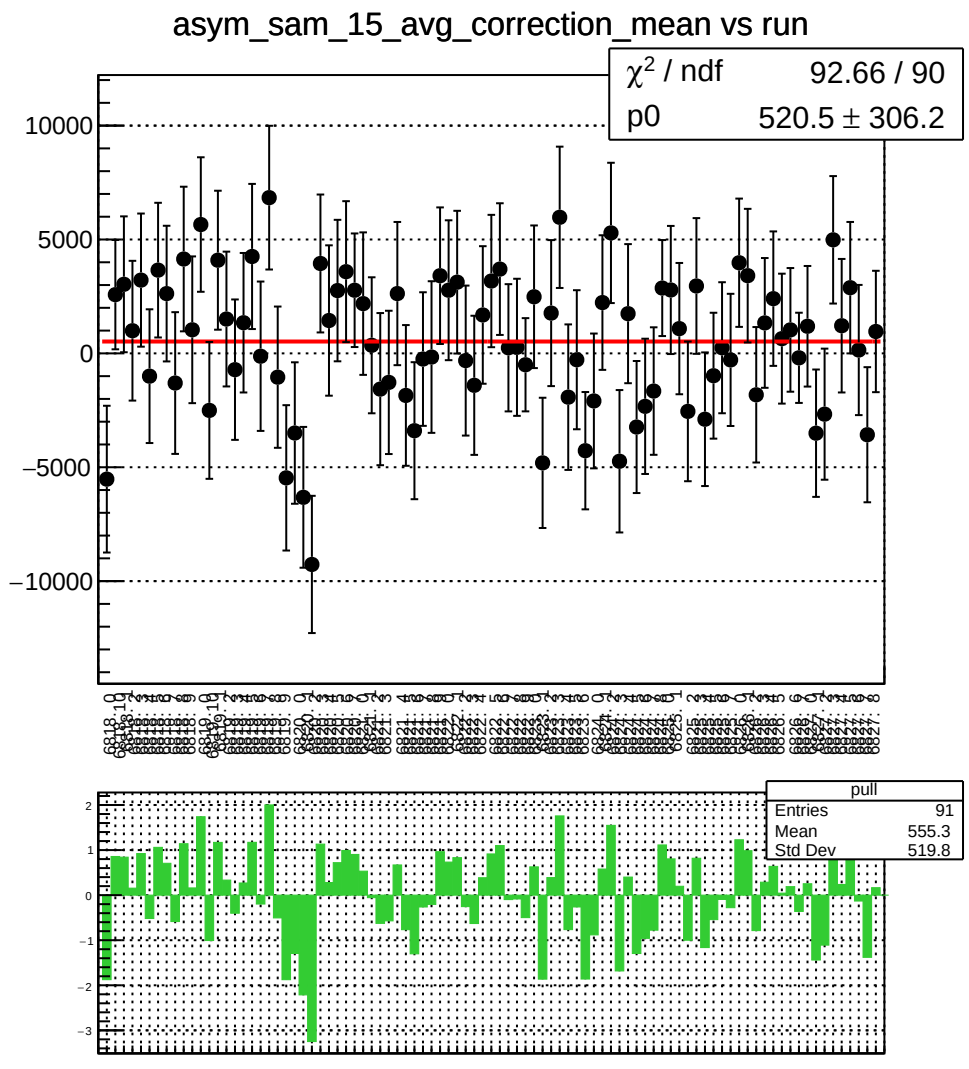

pull1D
Entries 91
Mean 0.0008871
Std Dev 0.8483

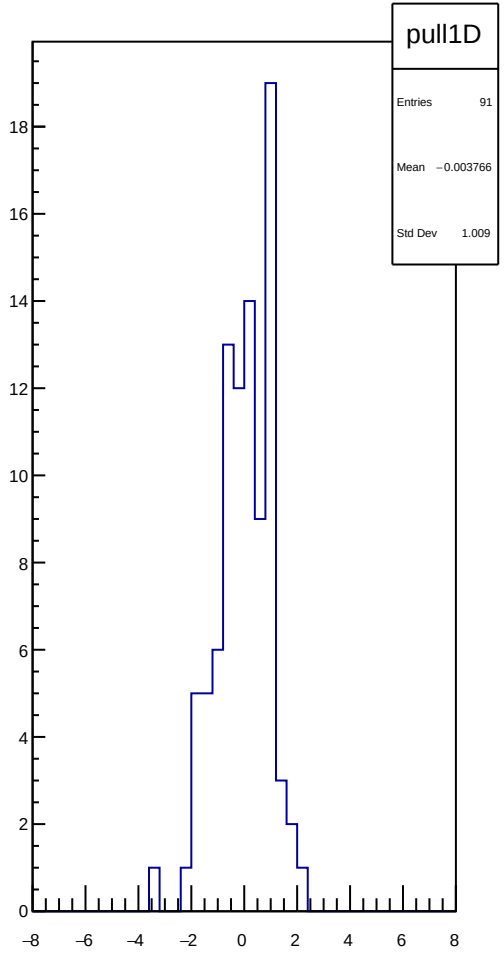

asym_sam8_correction_rms vs run
χ² / ndf 2267 / 90
p0 294.4 ± 0.224
320
310
300
290
280
270

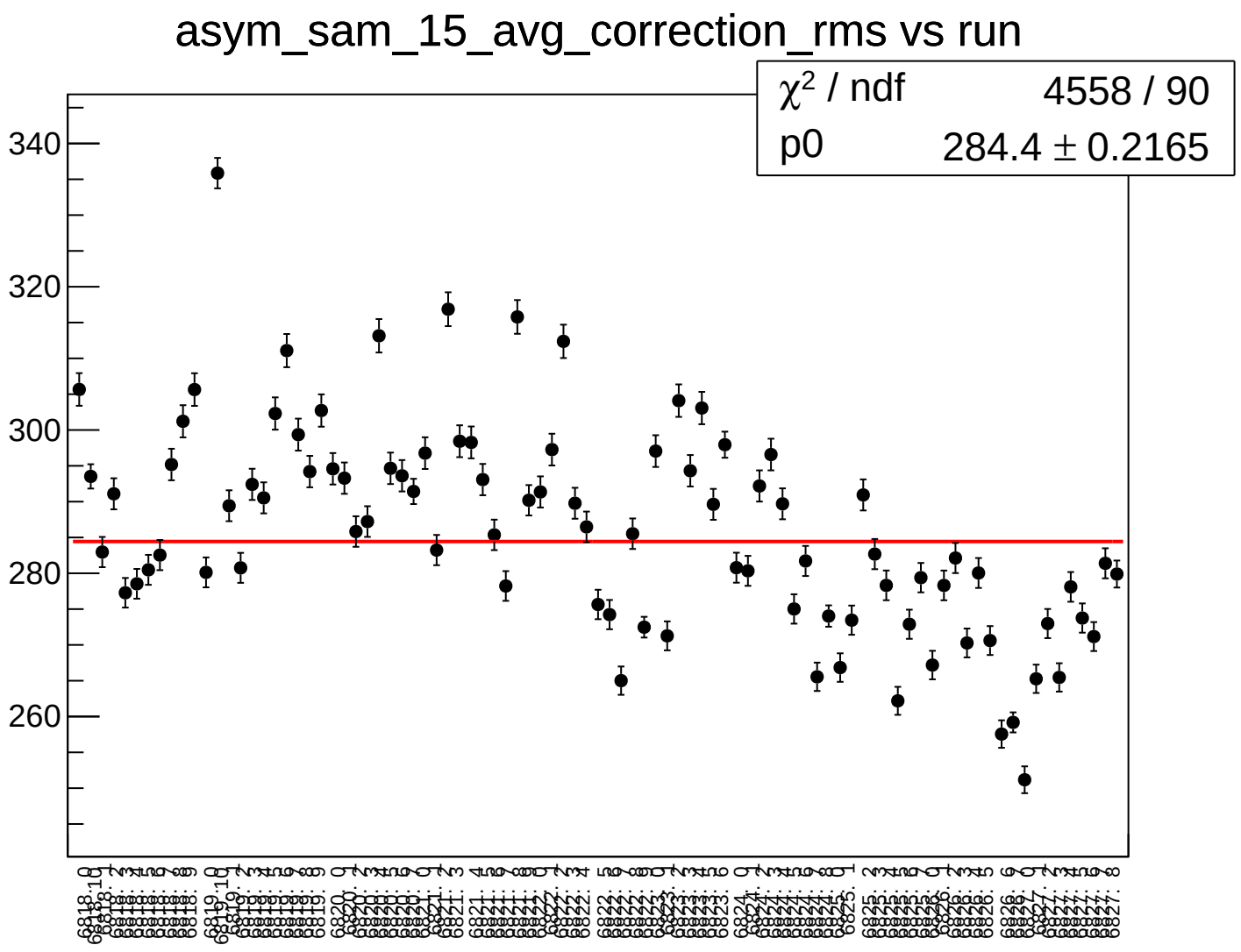

reg_asym_sam_15_avg_mean vs run
χ² / ndf 73.21 / 90
p0 −19.16 ± 64.31
pull
Entries 91
Mean −143.8
Std Dev 199.3

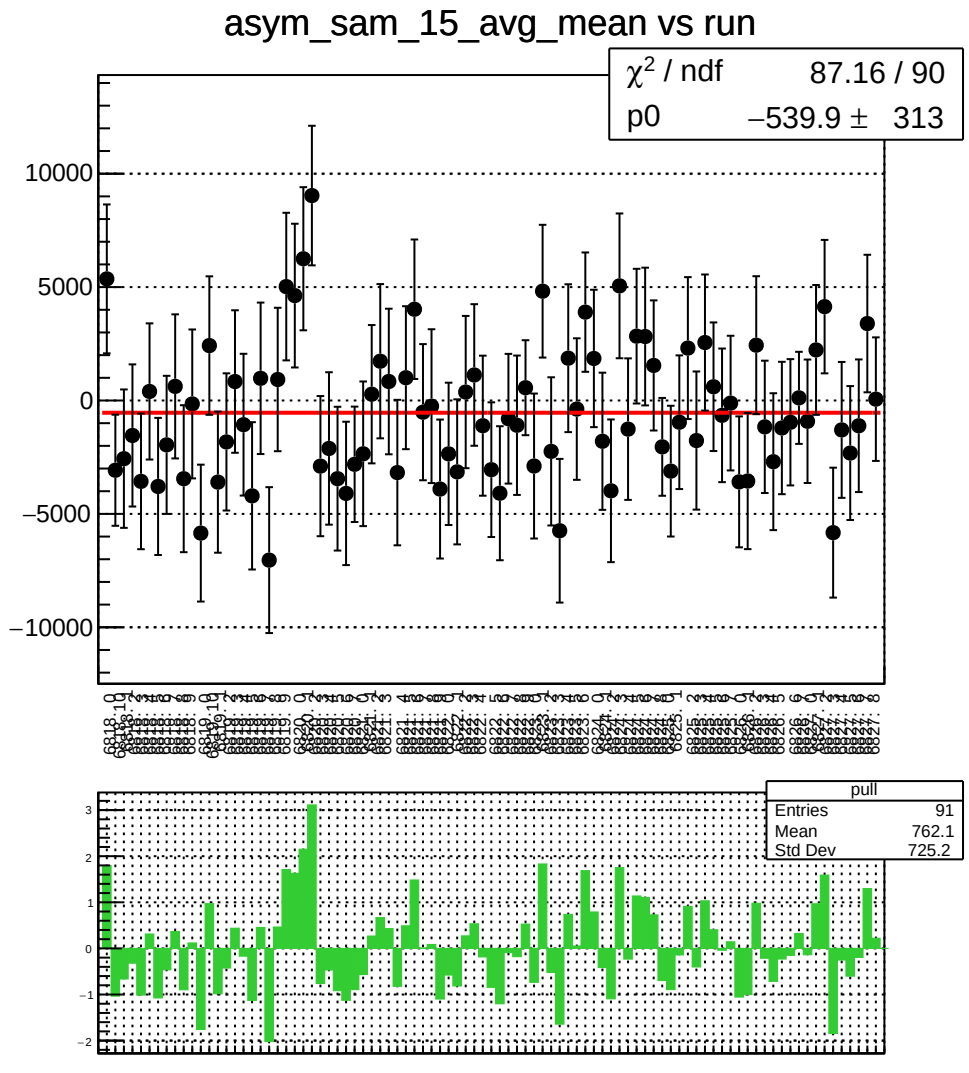

pull1D
Entries 91
Mean −0.004068
Std Dev 0.8969

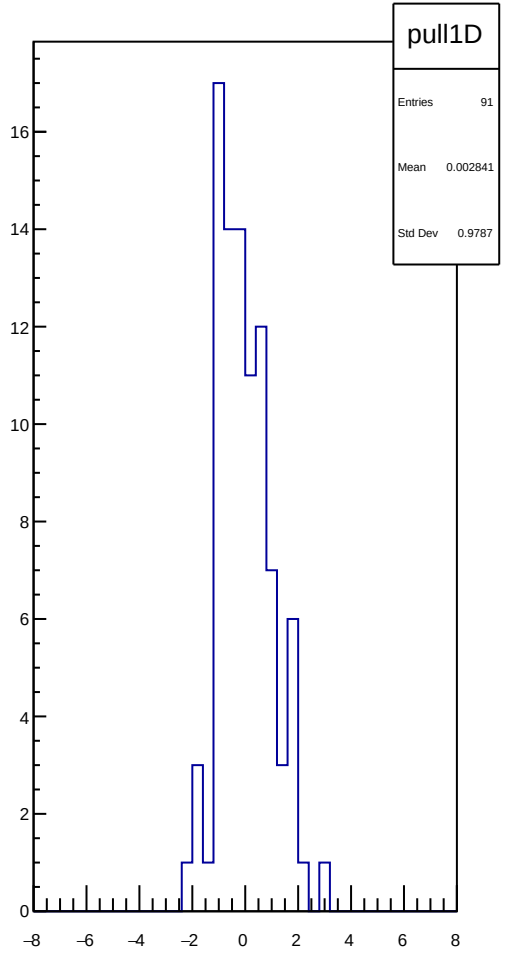

reg_asym_sam_15_avg_rms vs run
χ² / ndf 476.7 / 90
p0 59.8 ± 0.04547
63
62
61
60
59
58
57

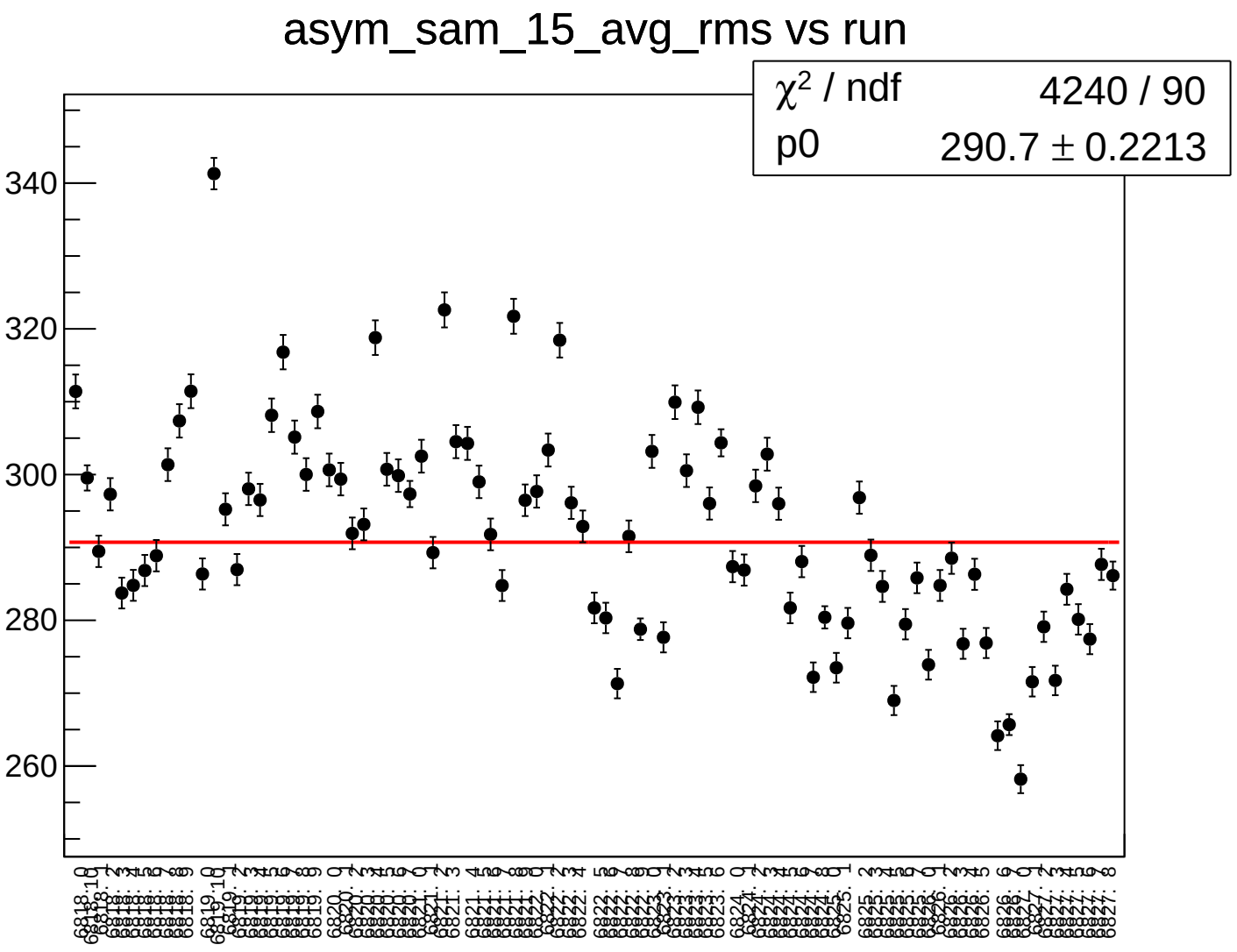

asym_sam_15_avg_correction_mean vs run
χ² / ndf 92.66 / 90
p0 520.5 ± 306.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 555.3
Std Dev 519.8
2
1
0
−1
−2
−3

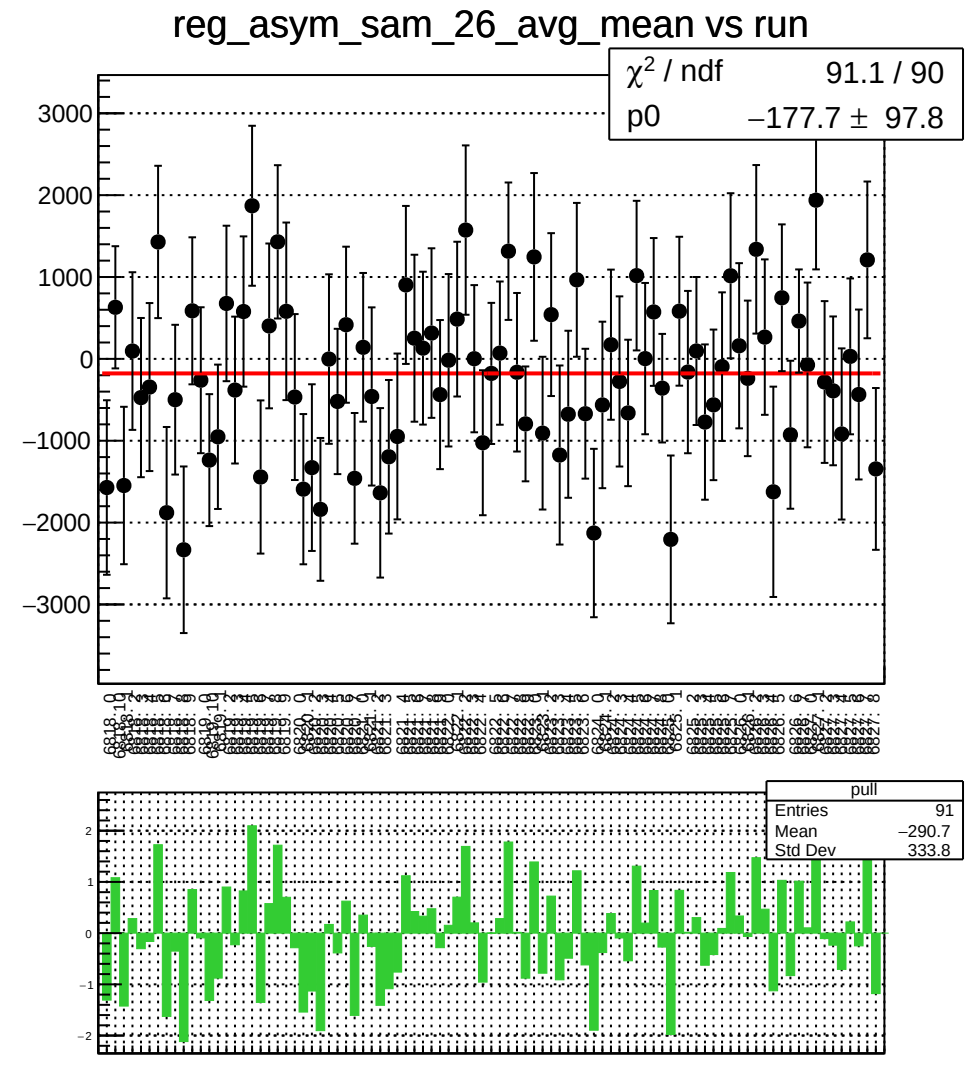

pull1D
Entries 91
Mean −0.003766
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

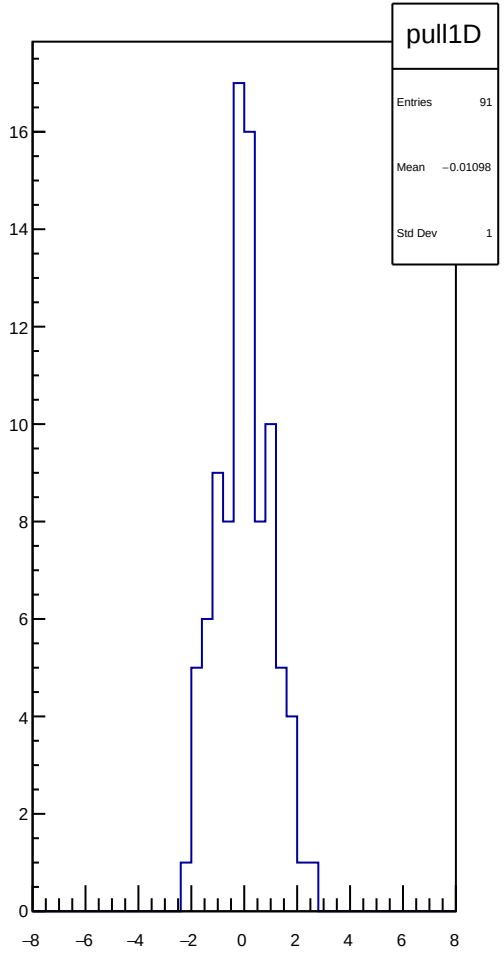

asym_sam_15_avg_correction_rms vs run
χ² / ndf 4558 / 90
p0 284.4 ± 0.2165
340
320
300
280
260

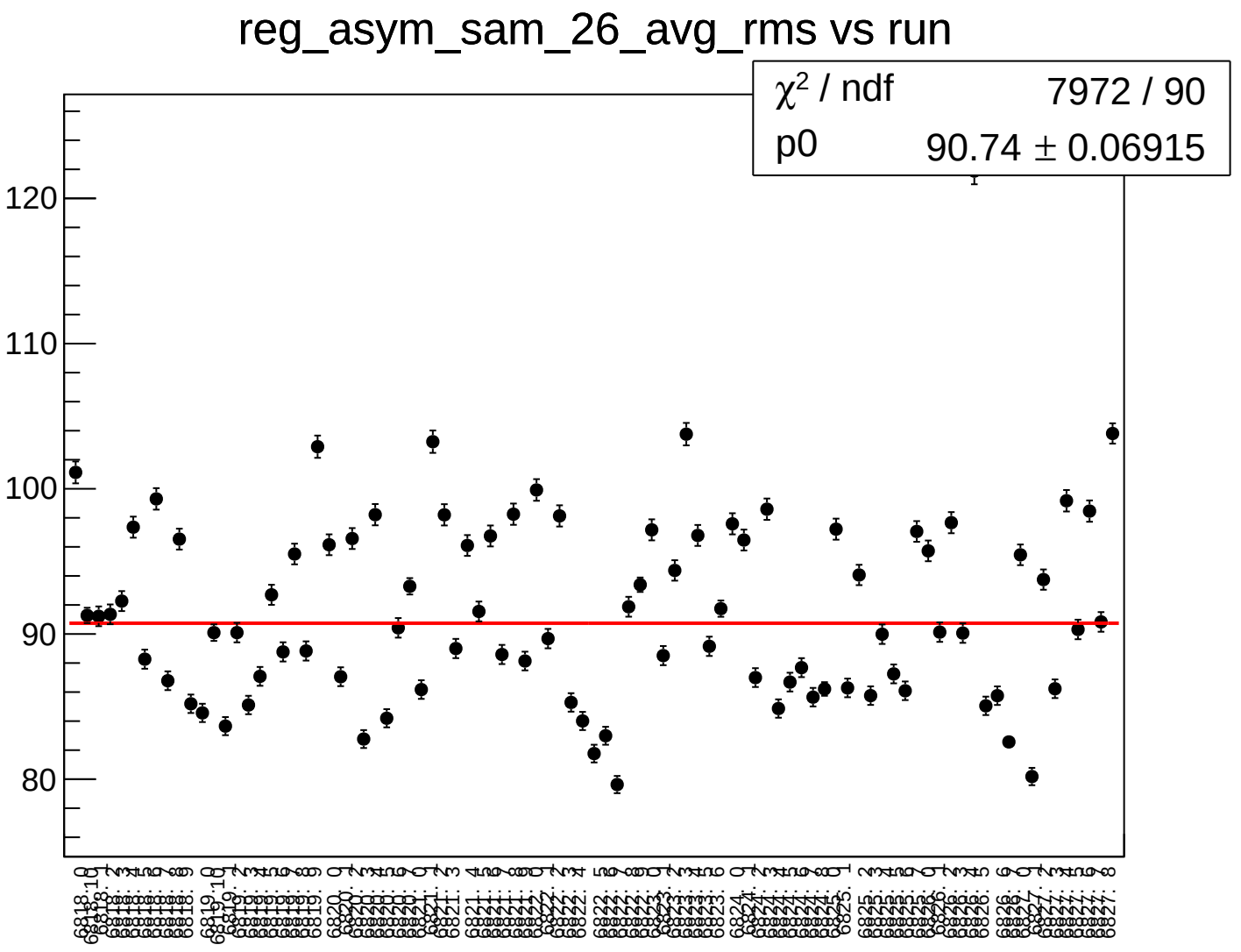

asym_sam_15_avg_mean vs run
χ² / ndf 87.16 / 90
p0 −539.9 ± 313
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 762.1
Std Dev 725.2
3
2
1
0
−1
−2

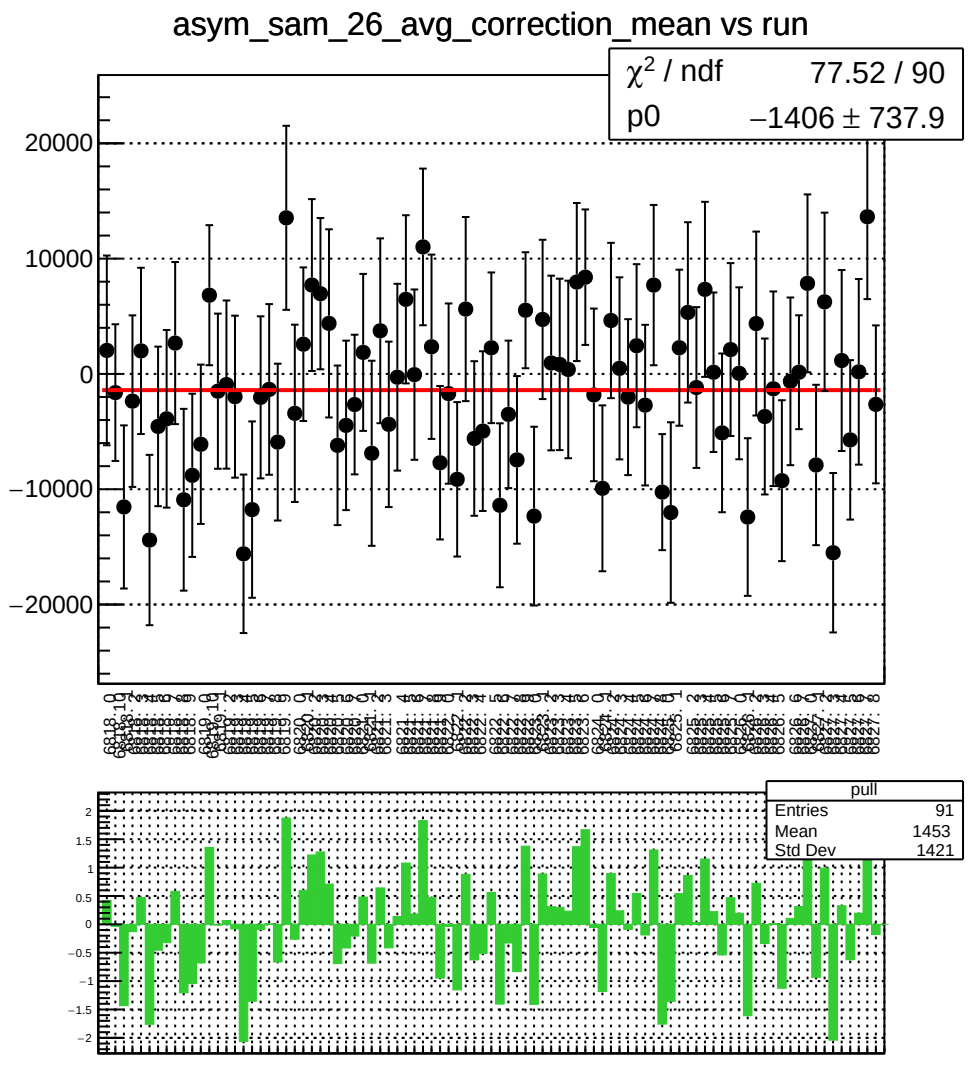

pull1D
Entries 91
Mean 0.002841
Std Dev 0.9787
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

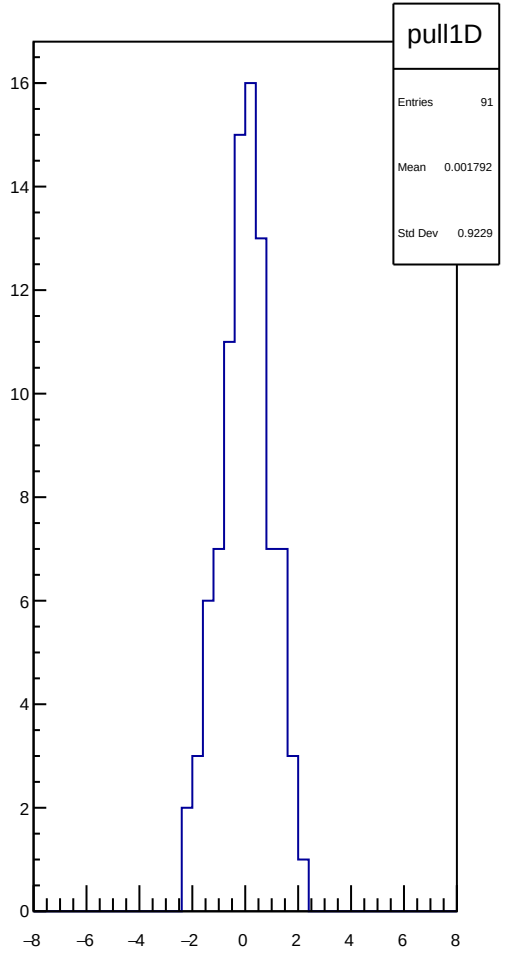

asym_sam_15_avg_rms vs run
χ² / ndf 4240 / 90
p0 290.7 ± 0.2213
340
320
300
280
260

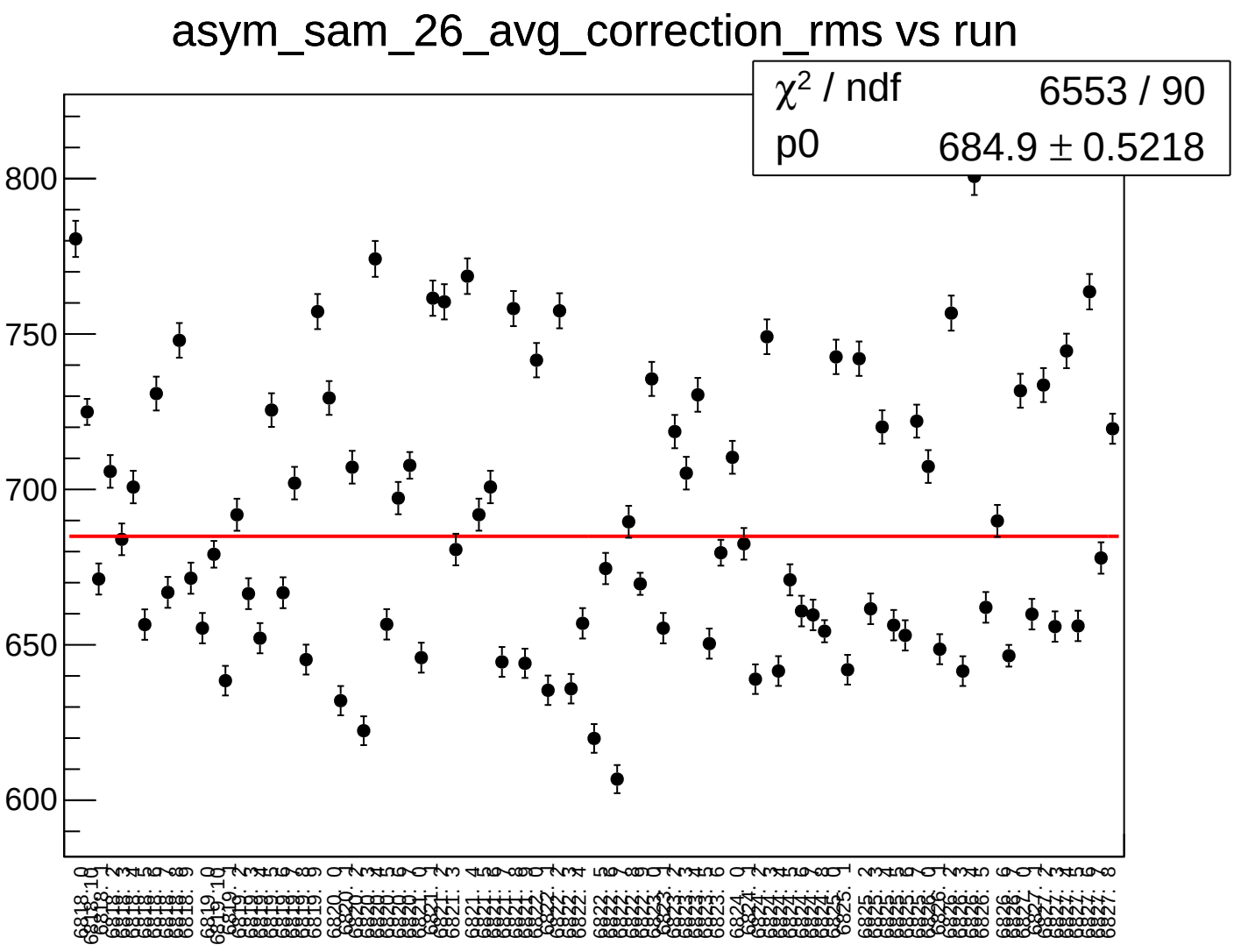

reg_asym_sam_26_avg_mean vs run
χ² / ndf 91.1 / 90
p0 −177.7 ± 97.8
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −290.7
Std Dev 333.8
2
1
0
−1
−2

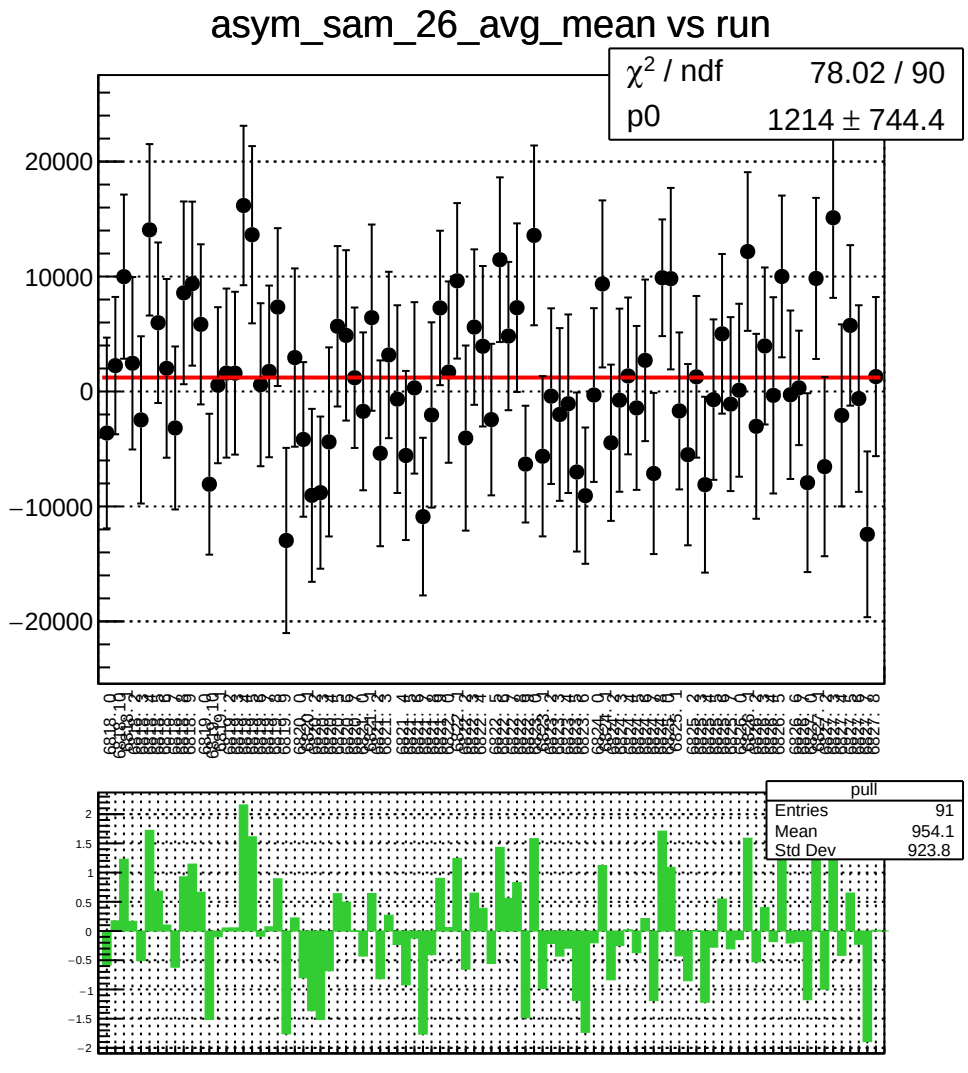

pull1D
Entries 91
Mean −0.01098
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

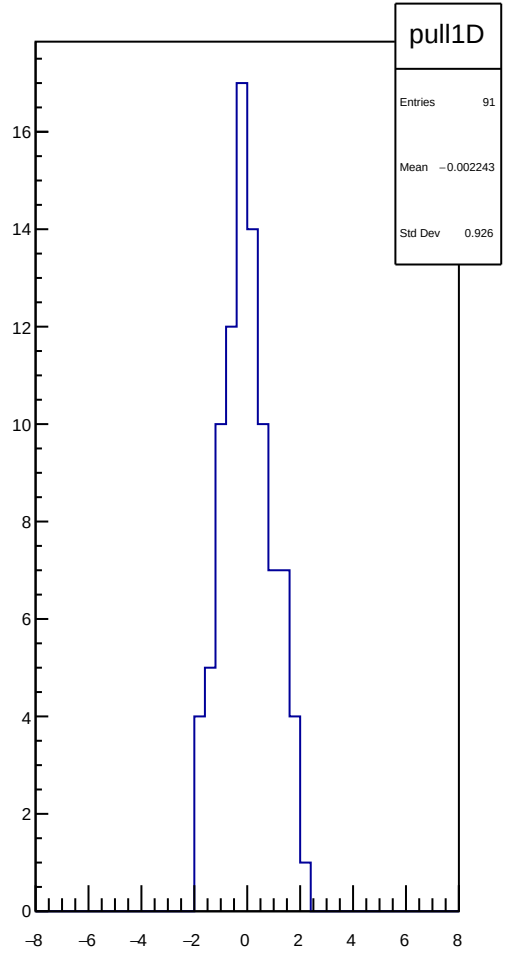

reg_asym_sam_26_avg_rms vs run
χ² / ndf 7972 / 90
p0 90.74 ± 0.06915
120
110
100
90
80

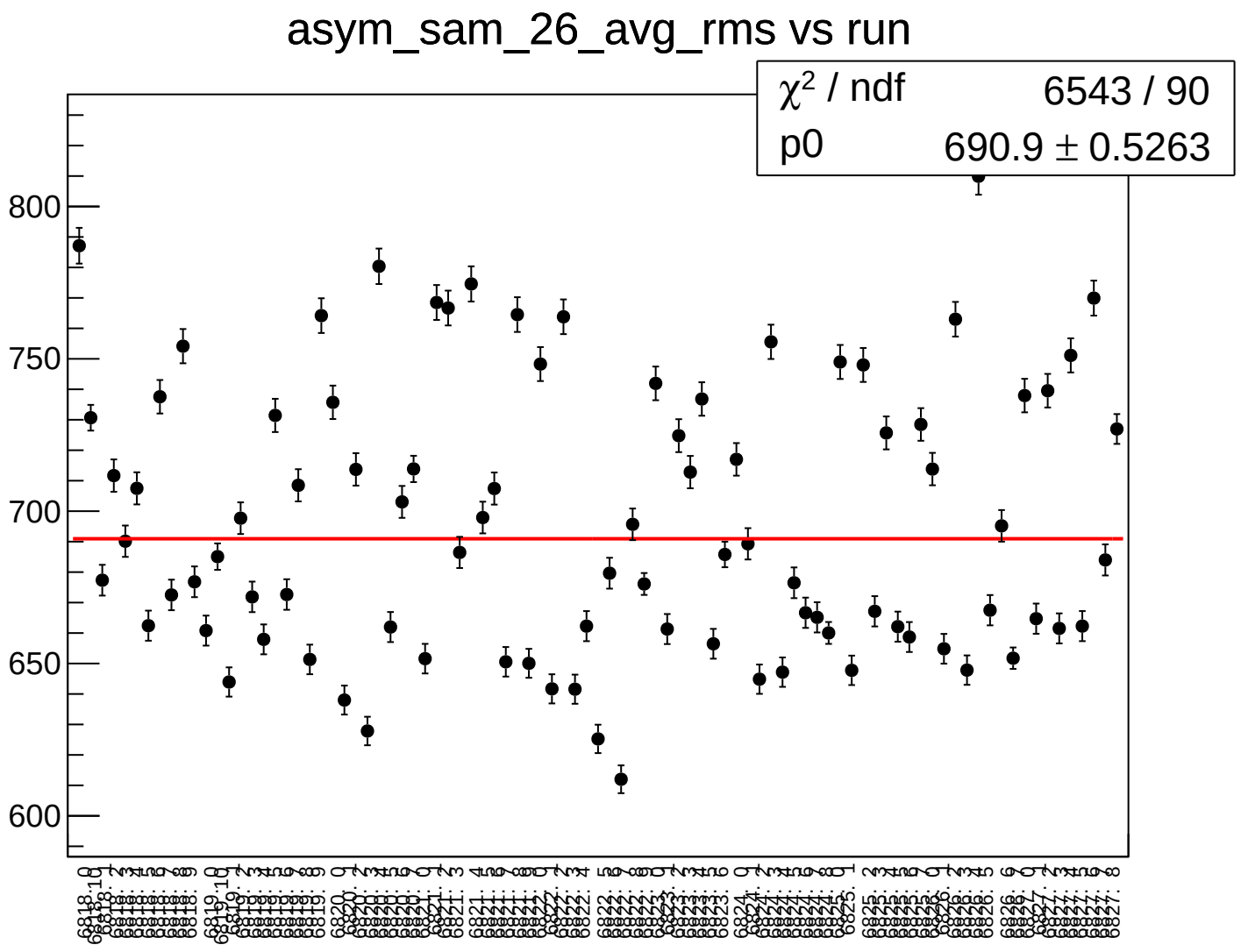

asym_sam_26_avg_correction_mean vs run
χ² / ndf 77.52 / 90
p0 −1406 ± 737.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 1453
Std Dev 1421
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

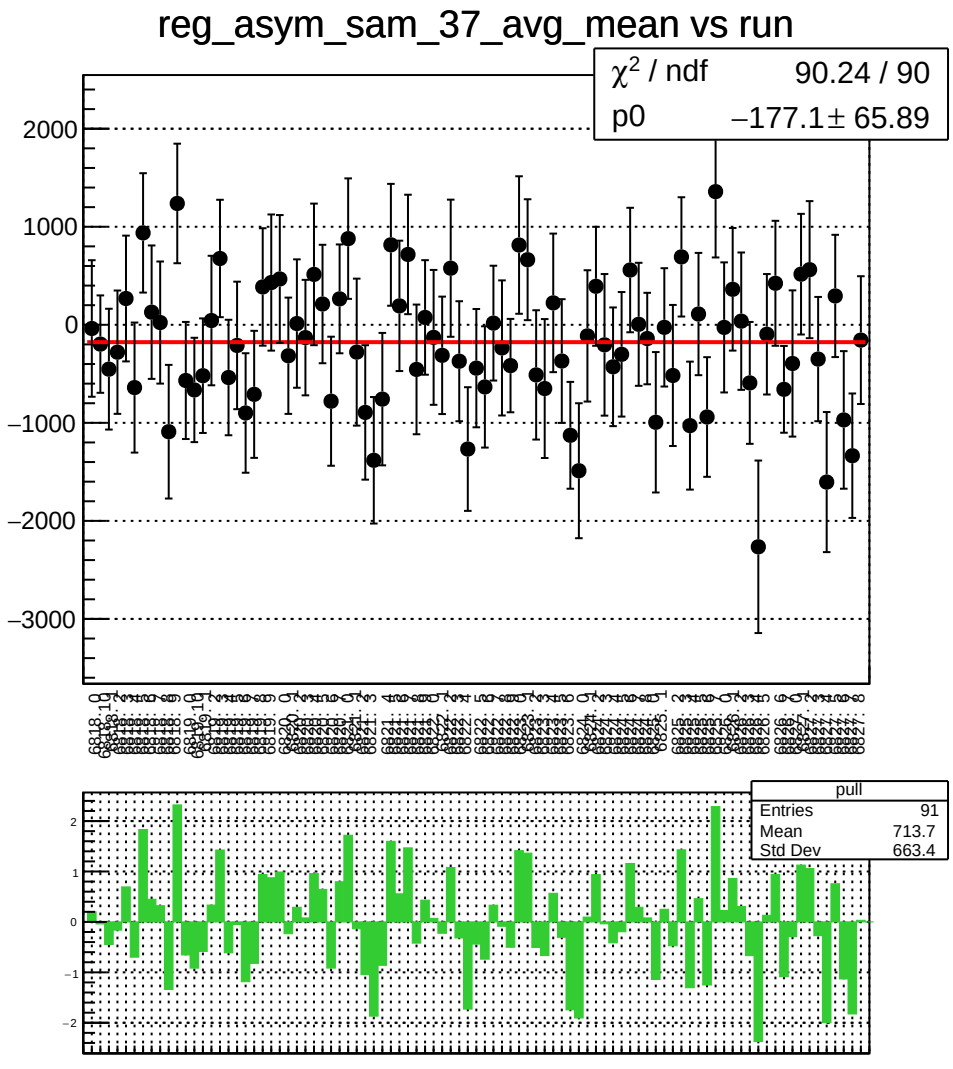

pull1D
Entries 91
Mean 0.001792
Std Dev 0.9229
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

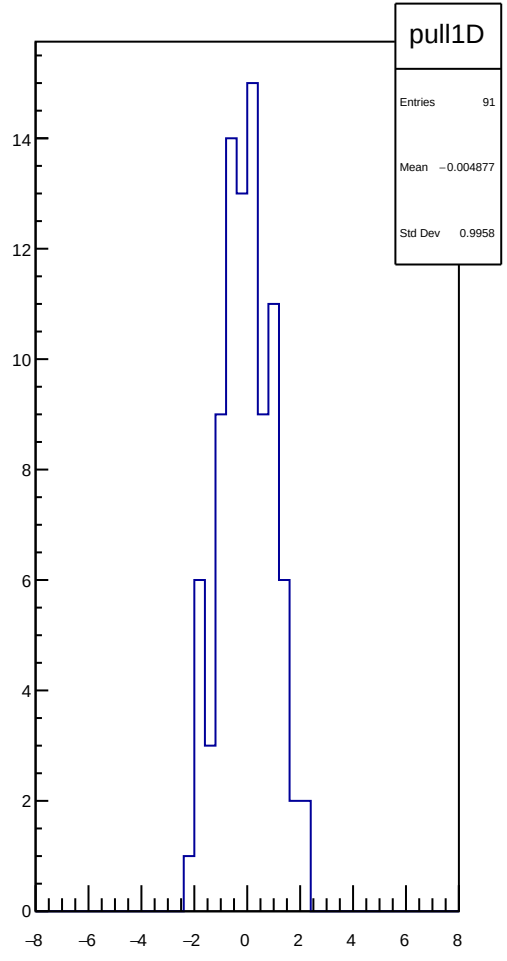

asym_sam_26_avg_correction_rms vs run
χ² / ndf 6553 / 90
p0 684.9 ± 0.5218
800
750
700
650
600

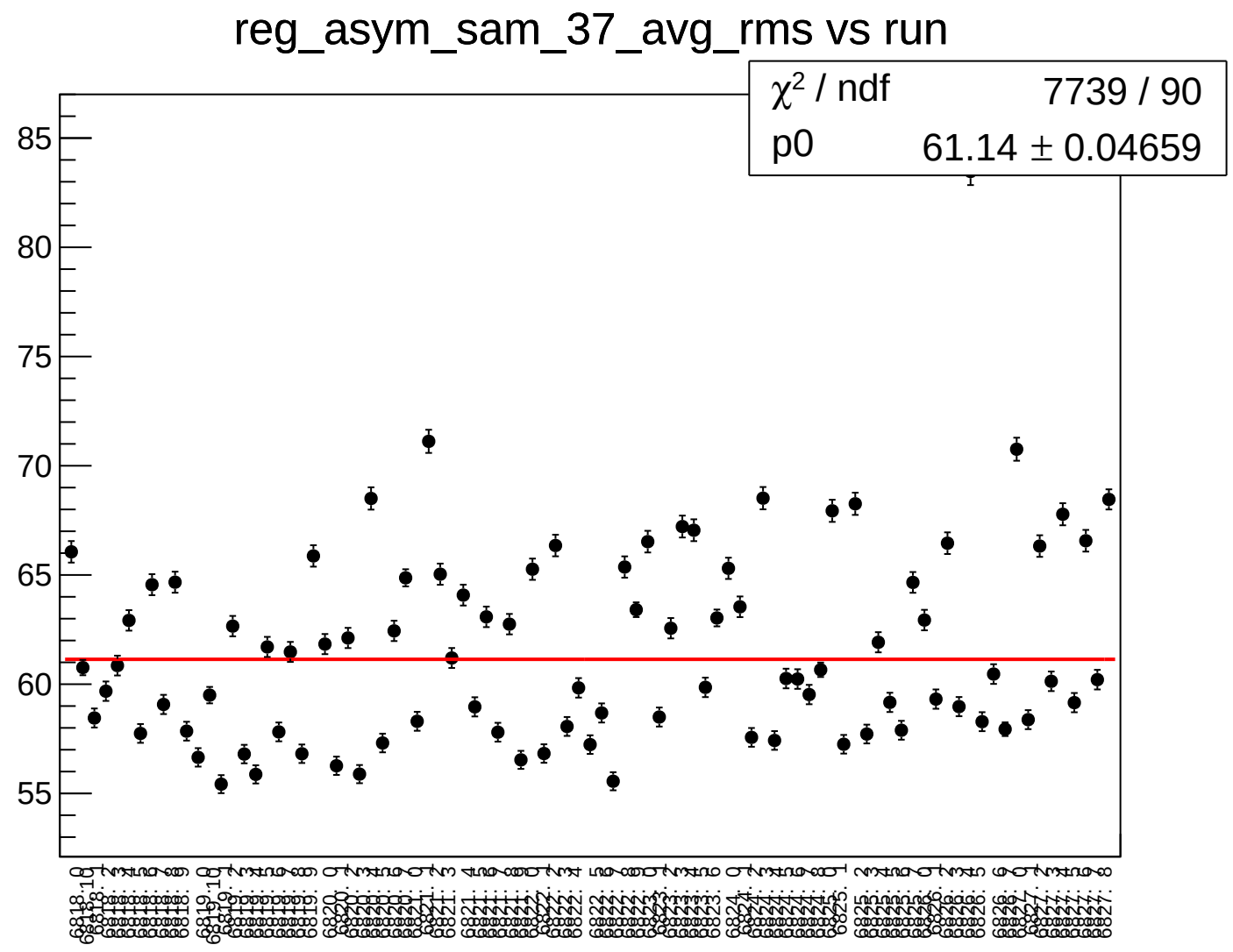

asym_sam_26_avg_mean vs run
χ² / ndf 78.02 / 90
p0 1214 ± 744.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 954.1
Std Dev 923.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

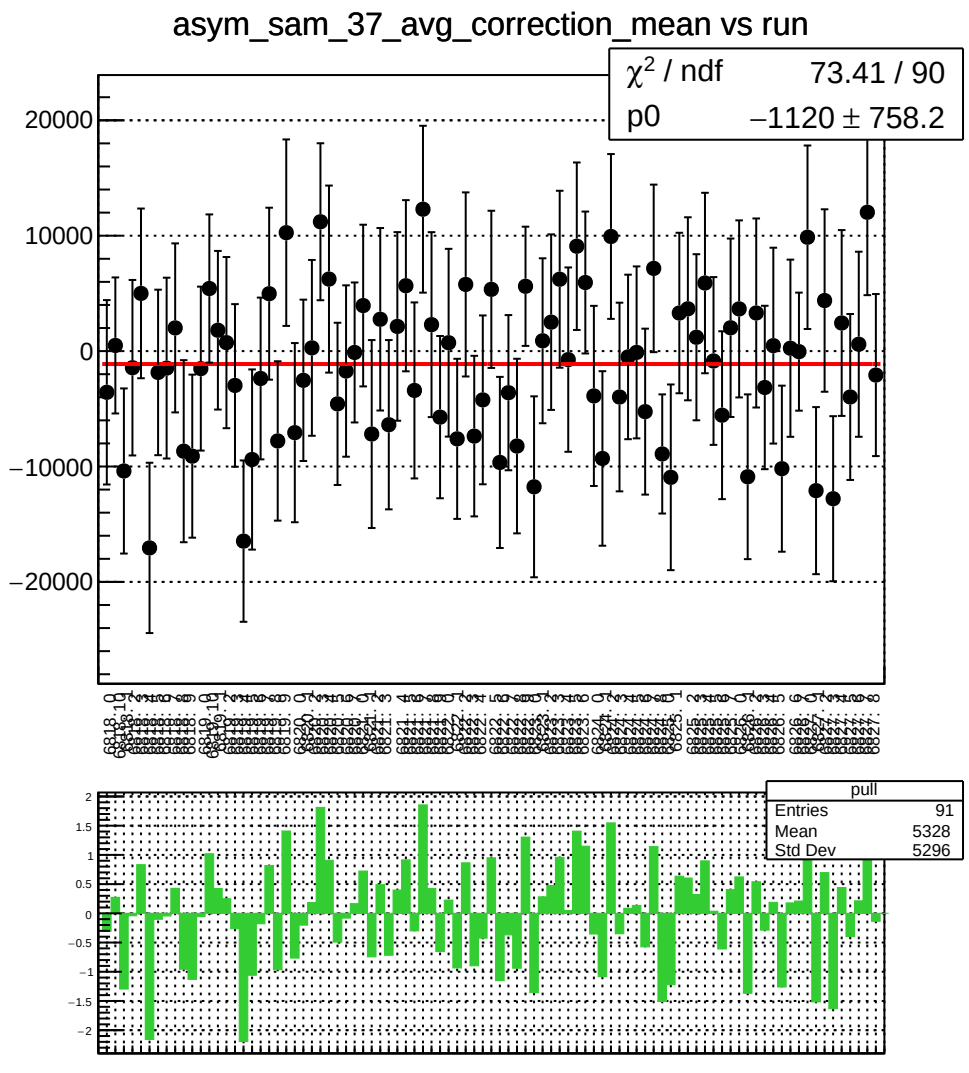

pull1D
Entries 91
Mean −0.002243
Std Dev 0.926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

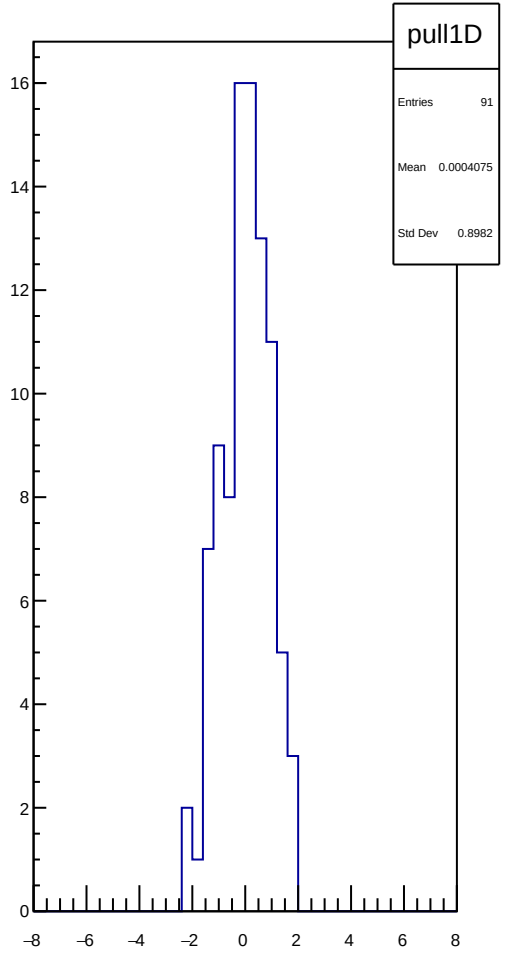

asym_sam_26_avg_rms vs run
χ² / ndf 6543 / 90
p0 690.9 ± 0.5263
800
750
700
650
600

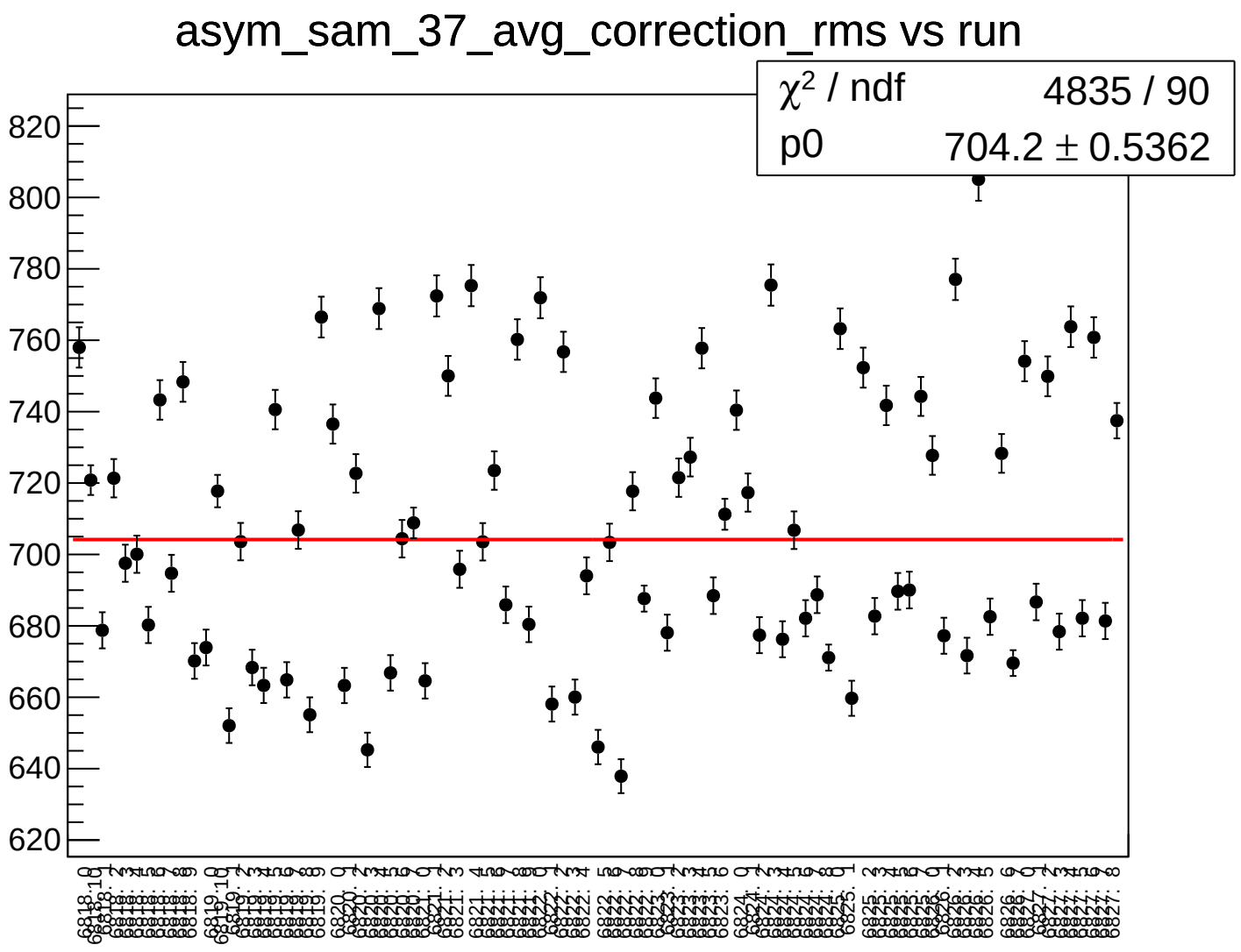

reg_asym_sam_37_avg_mean vs run
χ² / ndf 90.24 / 90
p0 −177.1± 65.89
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 713.7
Std Dev 663.4
2
1
0
−1
−2

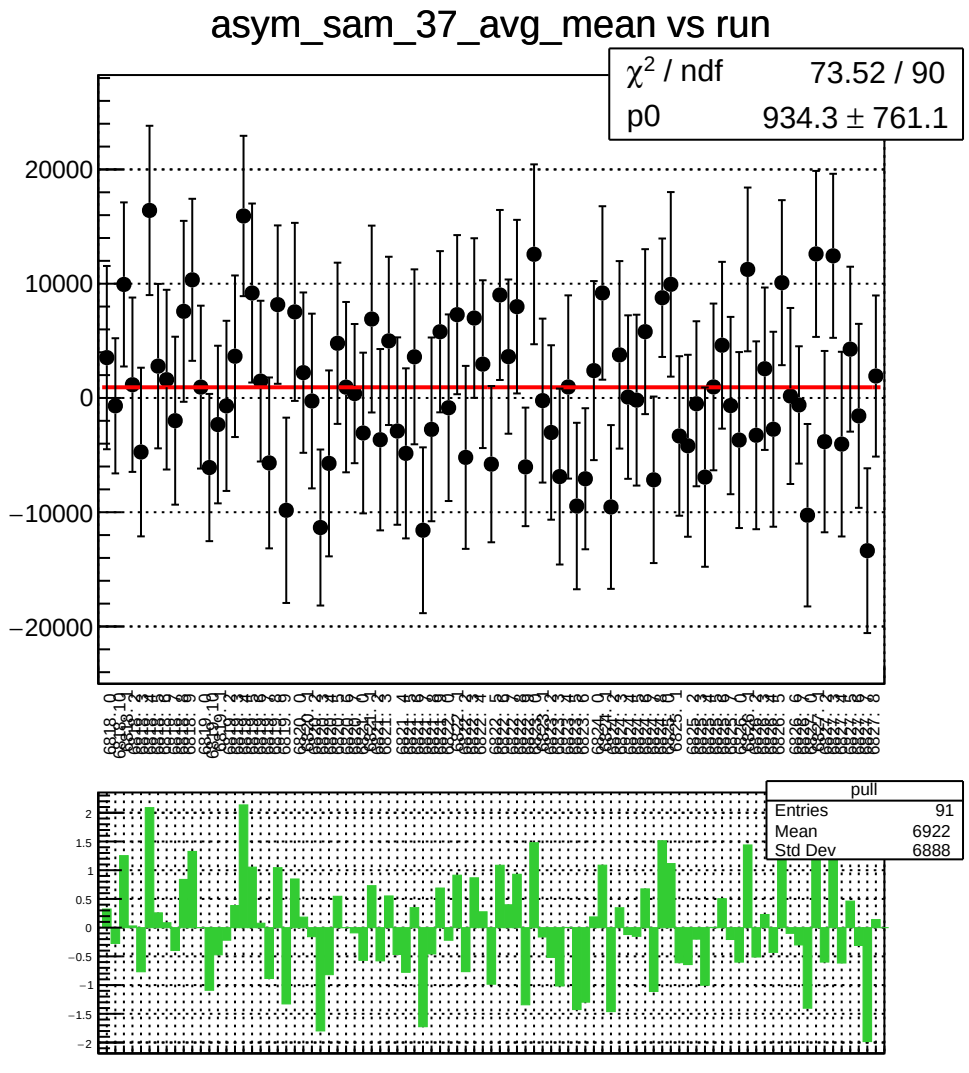

pull1D
Entries 91
Mean −0.004877
Std Dev 0.9958
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

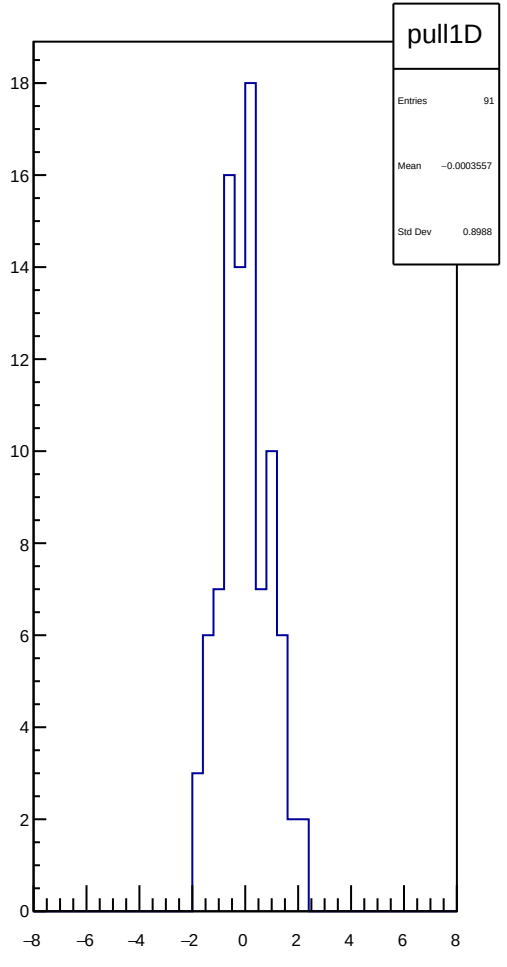

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 7739 / 90
p0 61.14 ± 0.04659
85
80
75
70
65
60
55

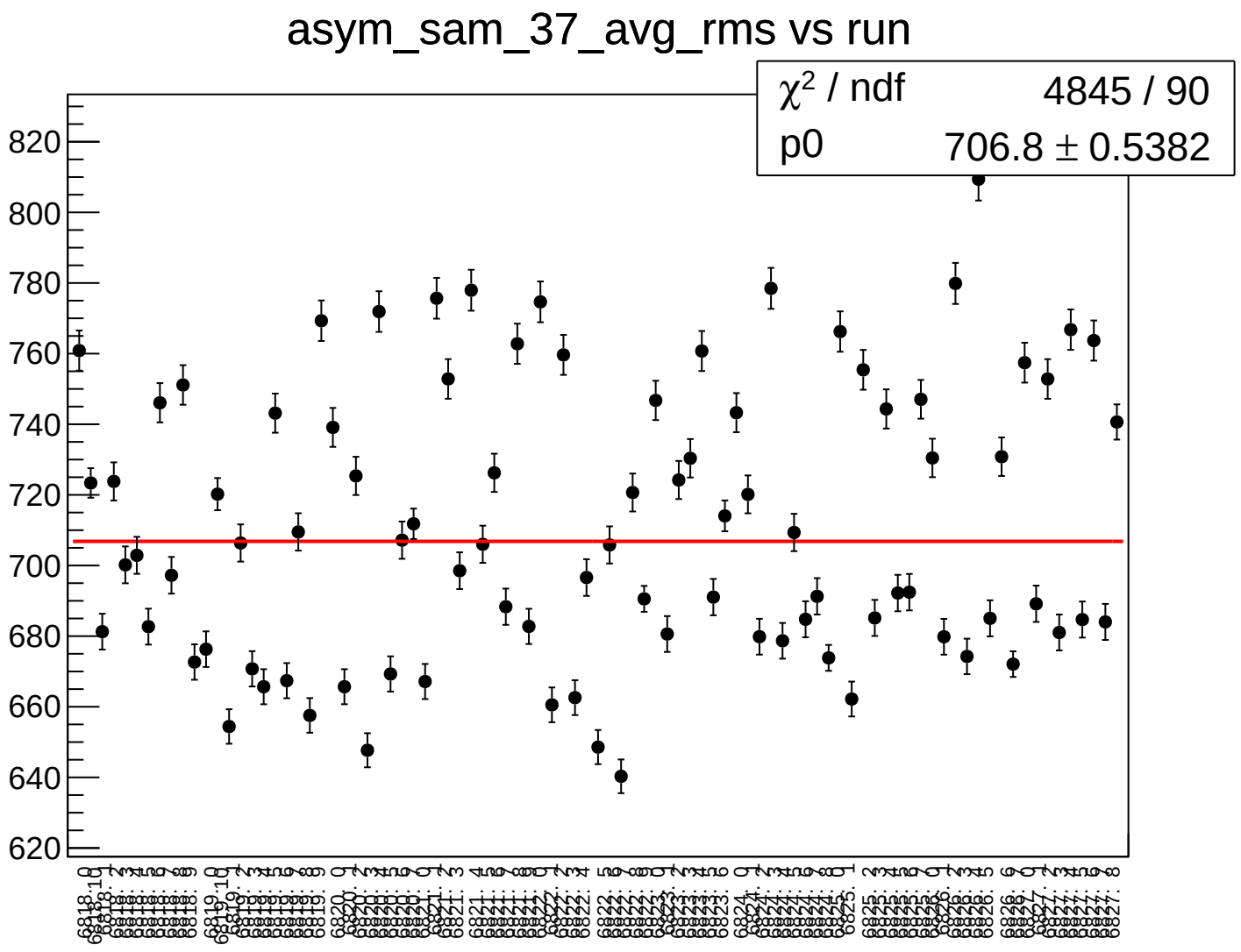

asym_sam_37_avg_correction_mean vs run
χ² / ndf 73.41 / 90
p0 −1120 ± 758.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 5328
Std Dev 5296
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

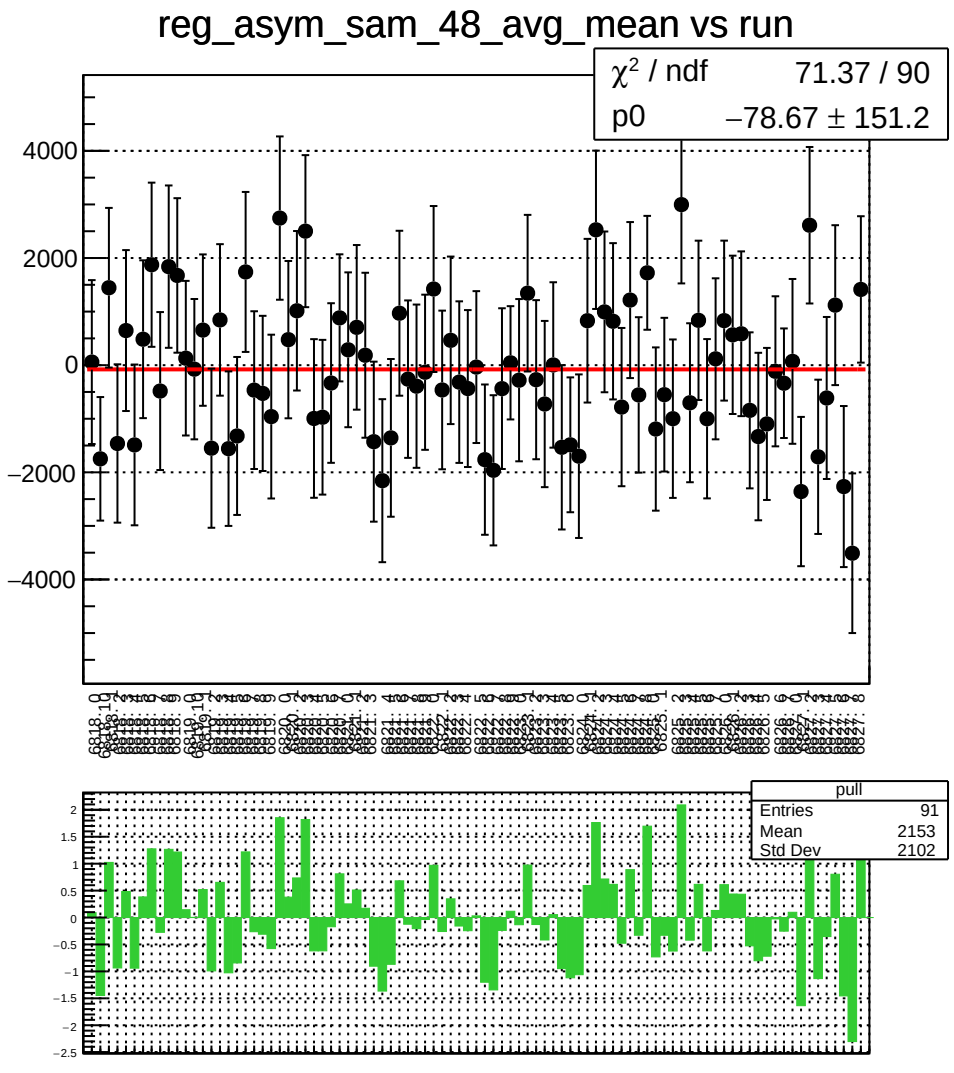

pull1D
Entries 91
Mean 0.0004075
Std Dev 0.8982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

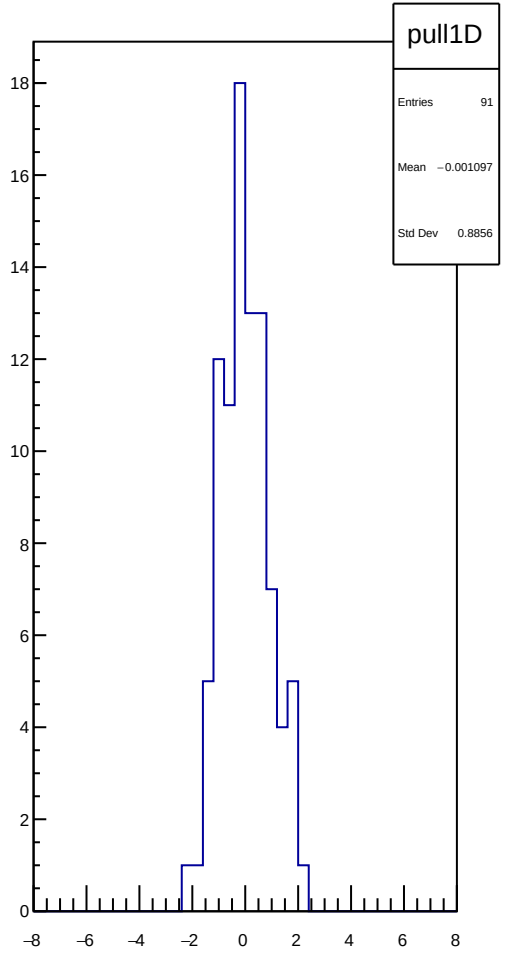

asym_sam_37_avg_correction_rms vs run
χ² / ndf 4835 / 90
p0 704.2 ± 0.5362
820
800
780
760
740
720
700
680
660
640
620


asym_sam_37_avg_mean vs run
χ² / ndf 73.52 / 90
p0 934.3 ± 761.1
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 6922
Std Dev 6888
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.0003557
Std Dev 0.8988
18
16
14
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 4845 / 90
p0 706.8 ± 0.5382
820
800
780
760
740
720
700
680
660
640
620


reg_asym_sam_48_avg_mean vs run
χ² / ndf 71.37 / 90
p0 −78.67 ± 151.2
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 2153
Std Dev 2102
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 91
Mean −0.001097
Std Dev 0.8856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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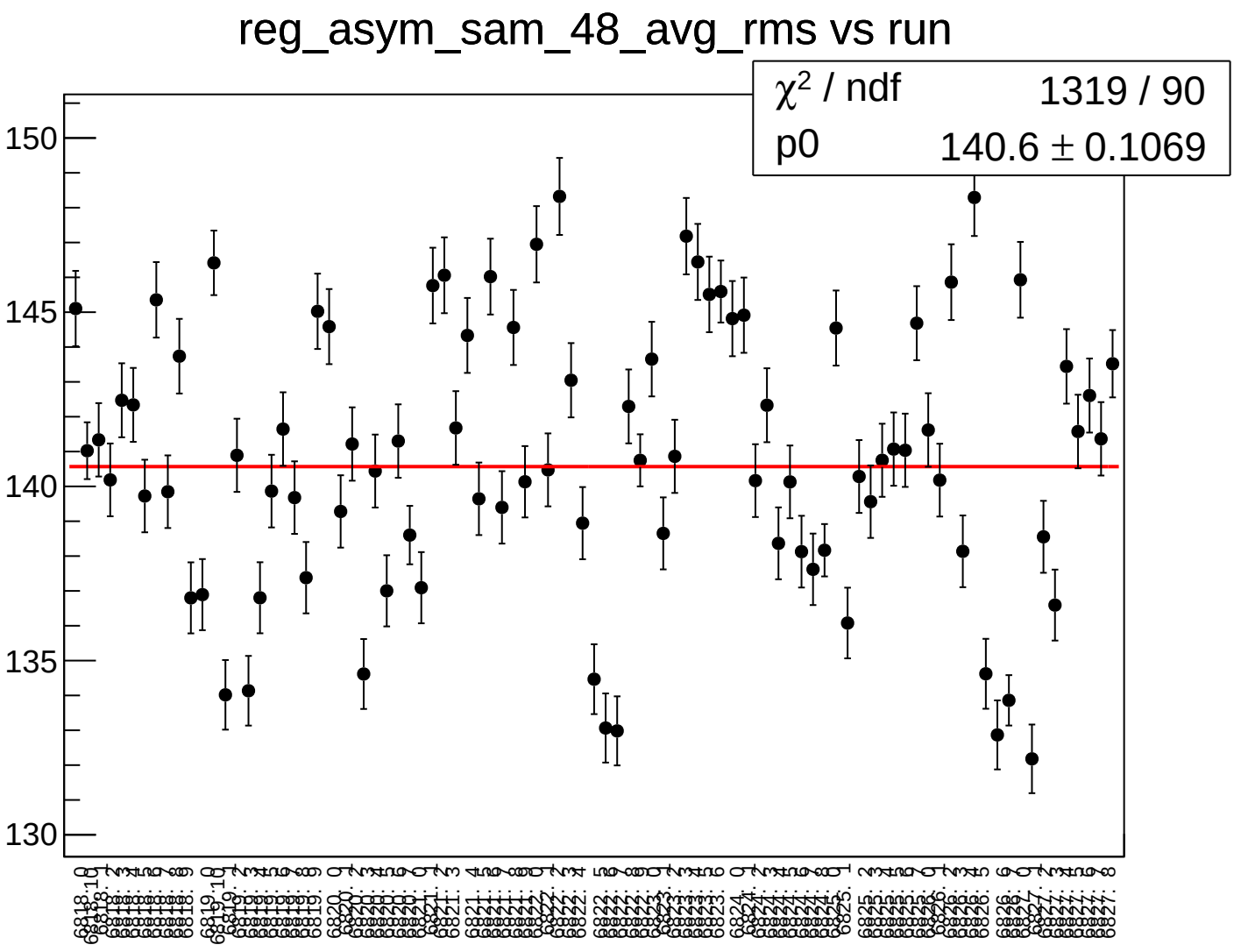
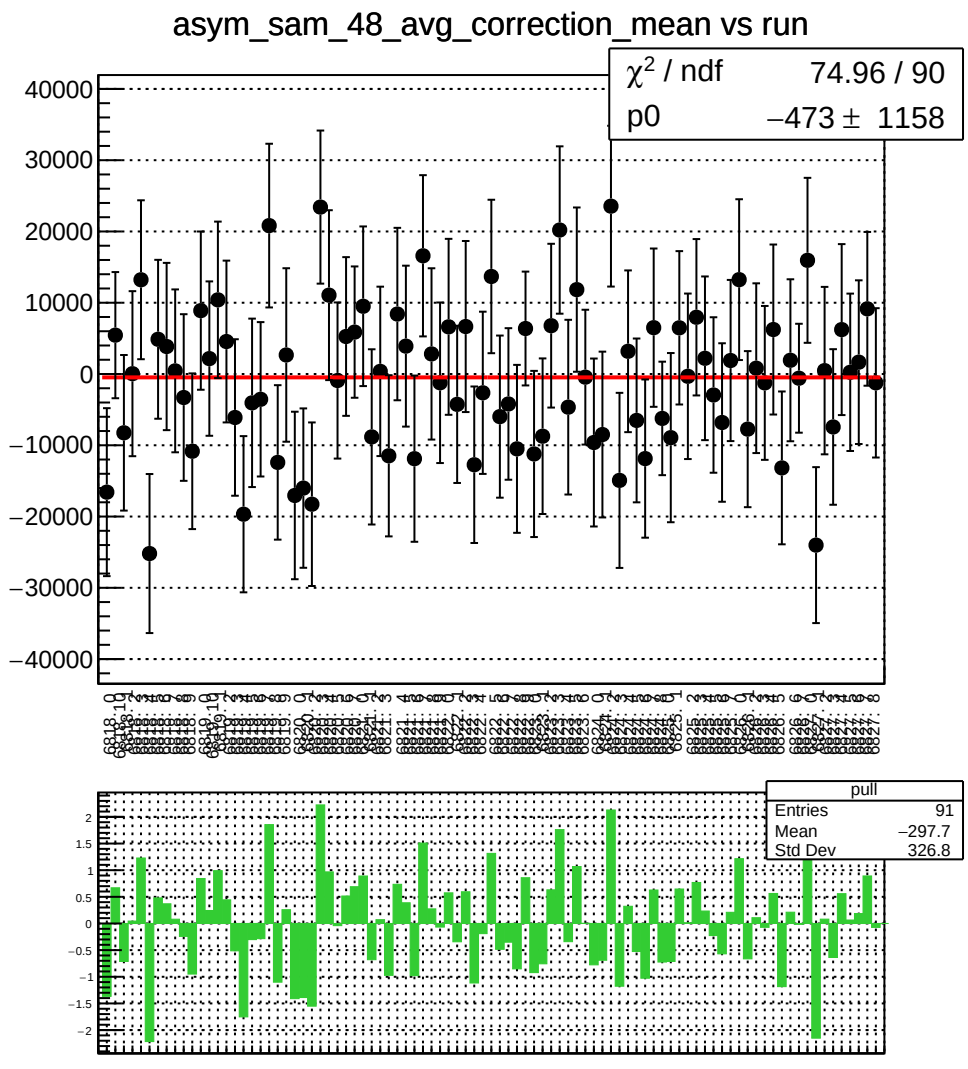
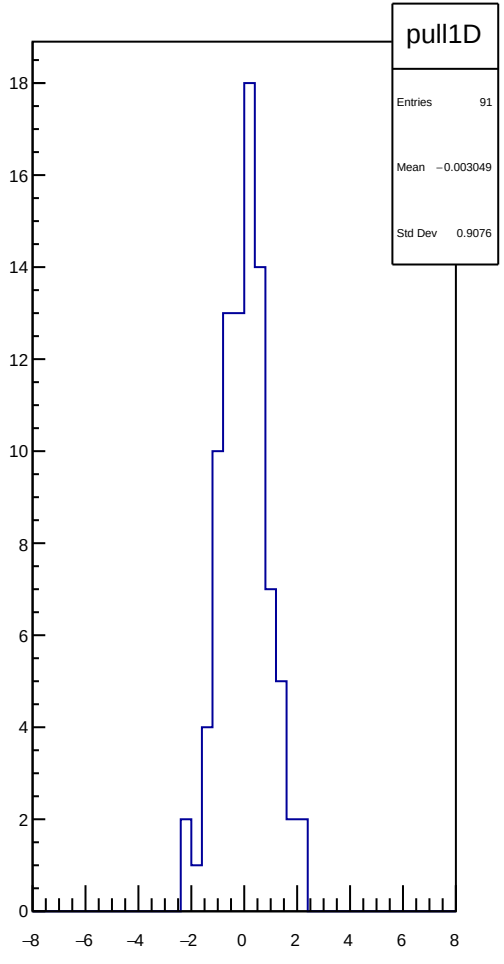
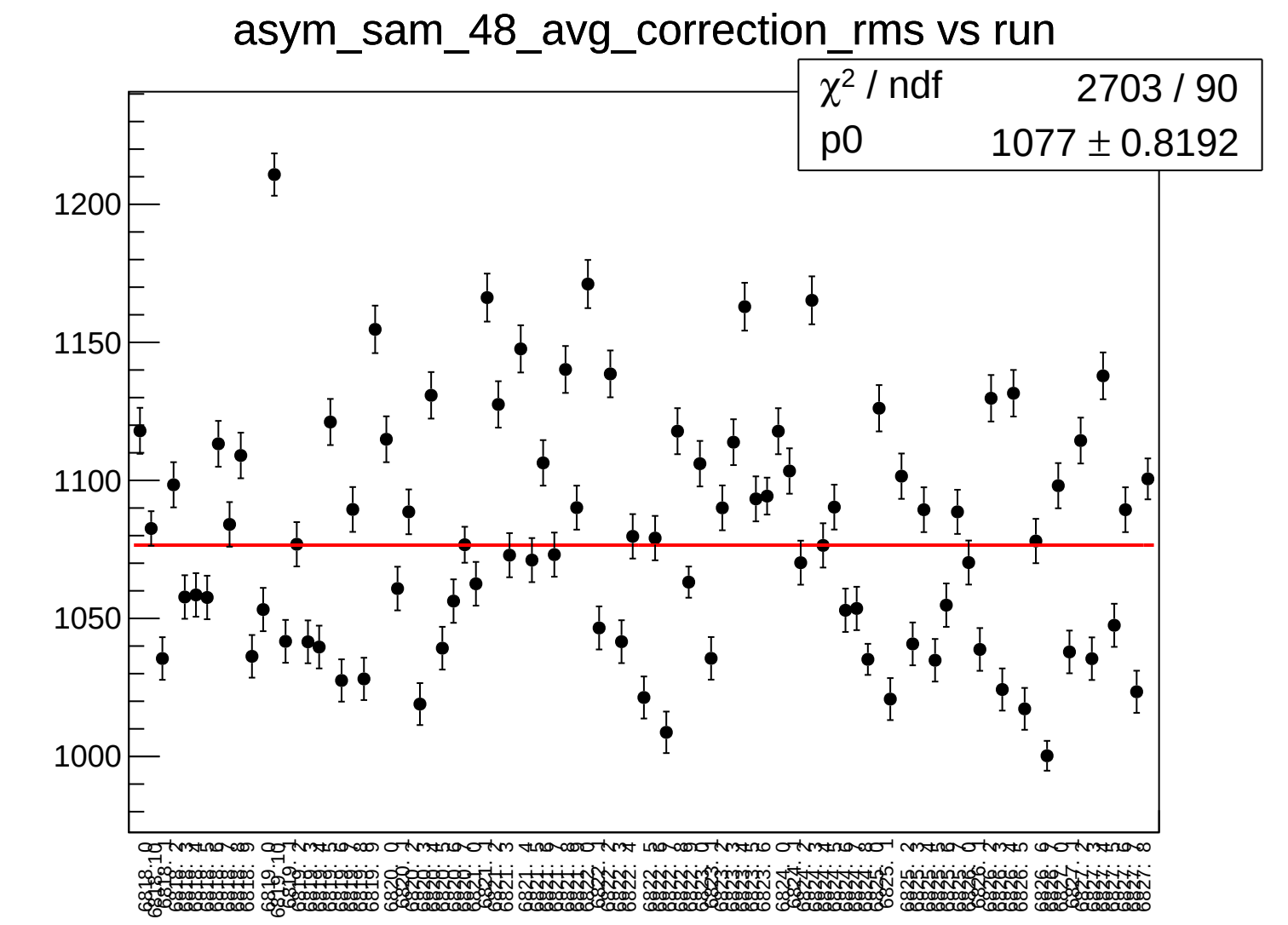
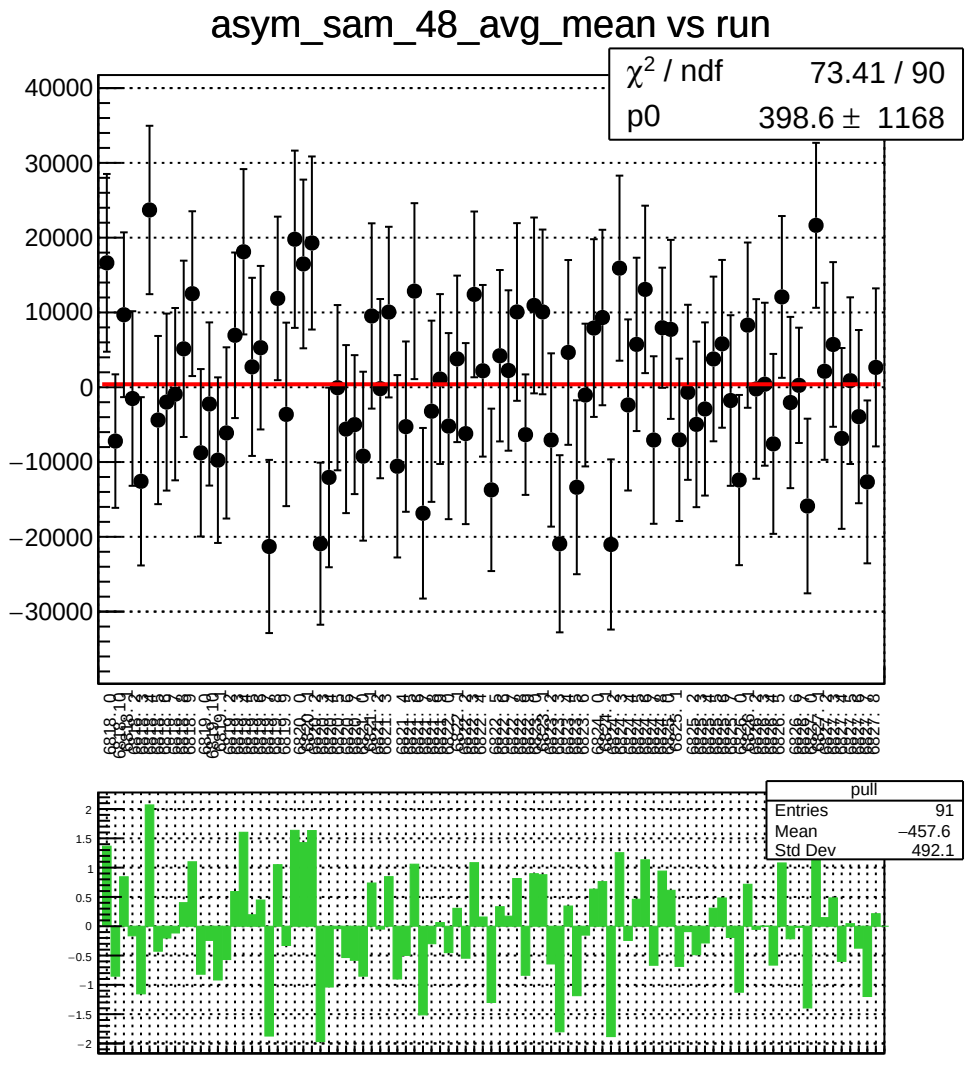
0
2
4
6
8

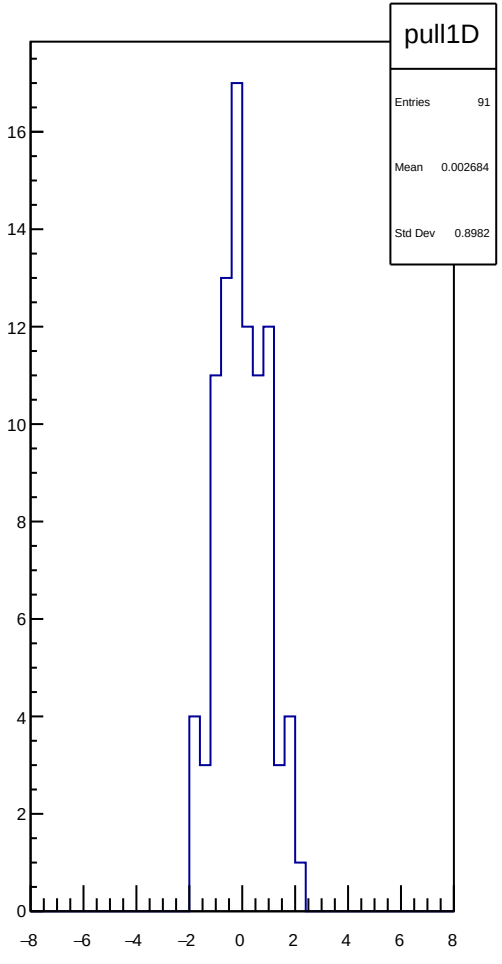

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1319 / 90
p0 140.6 ± 0.1069
150
145
140
135
130

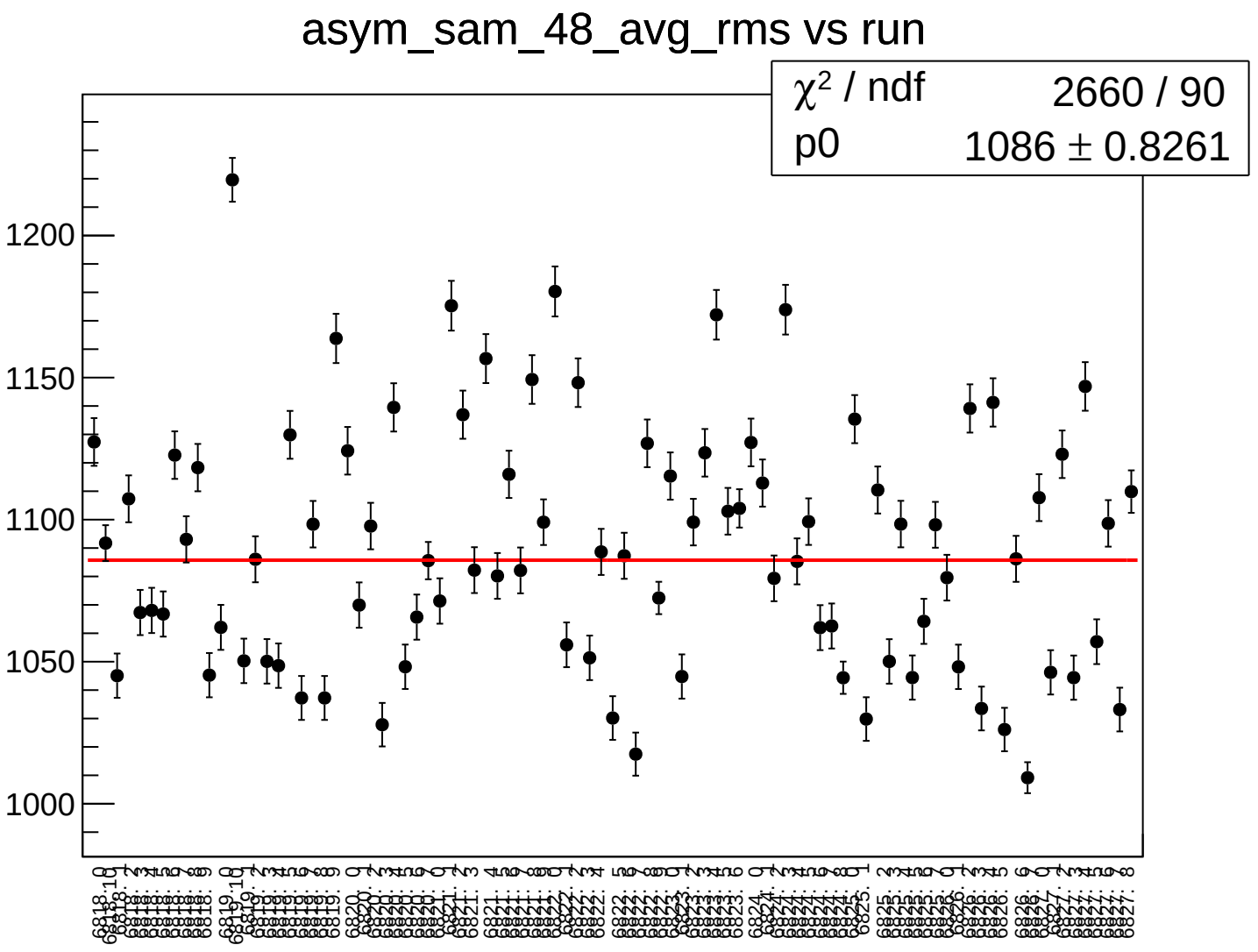

asym_sam_48_avg_correction_mean vs run
χ² / ndf 74.96 / 90
p0 −473 ± 1158
pull
Entries 91
Mean −297.7
Std Dev 326.8

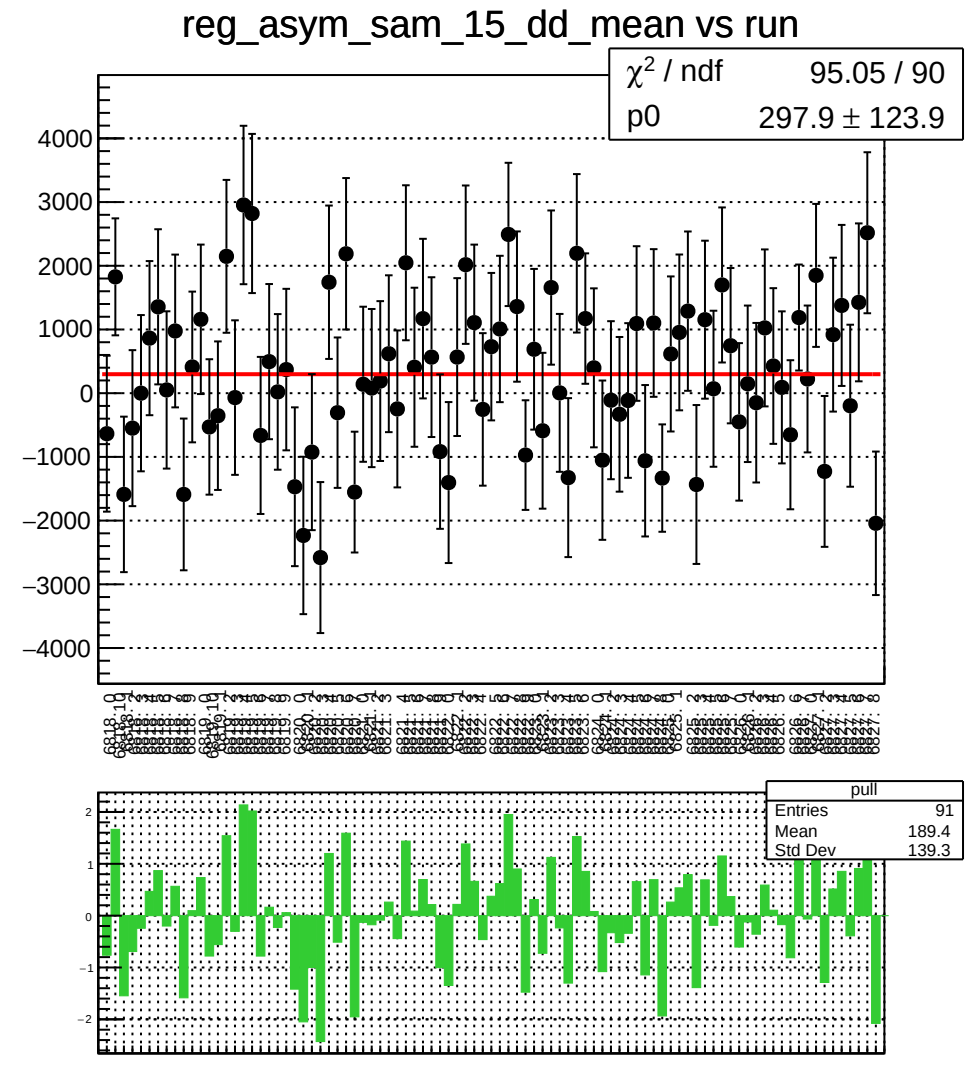

pull1D
Entries 91
Mean −0.003049
Std Dev 0.9076

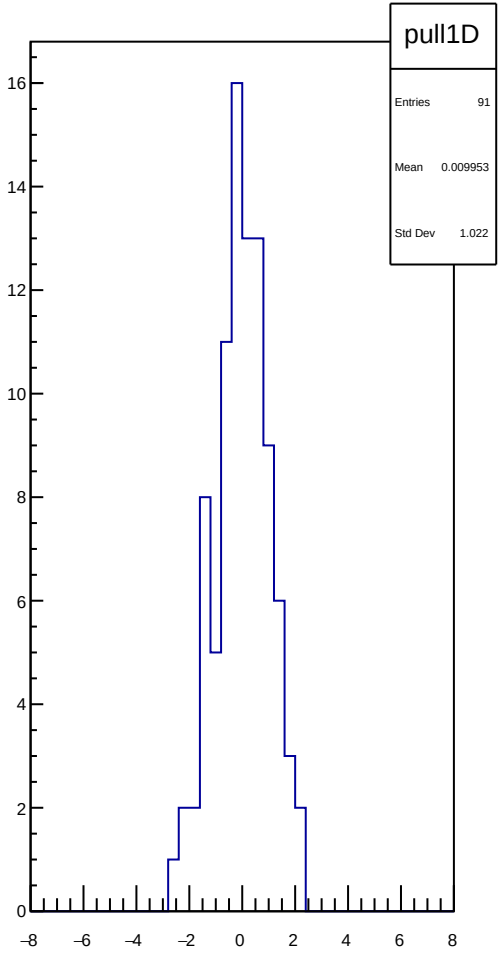

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2703 / 90
p0 1077 ± 0.8192
1200
1150
1100
1050
1000

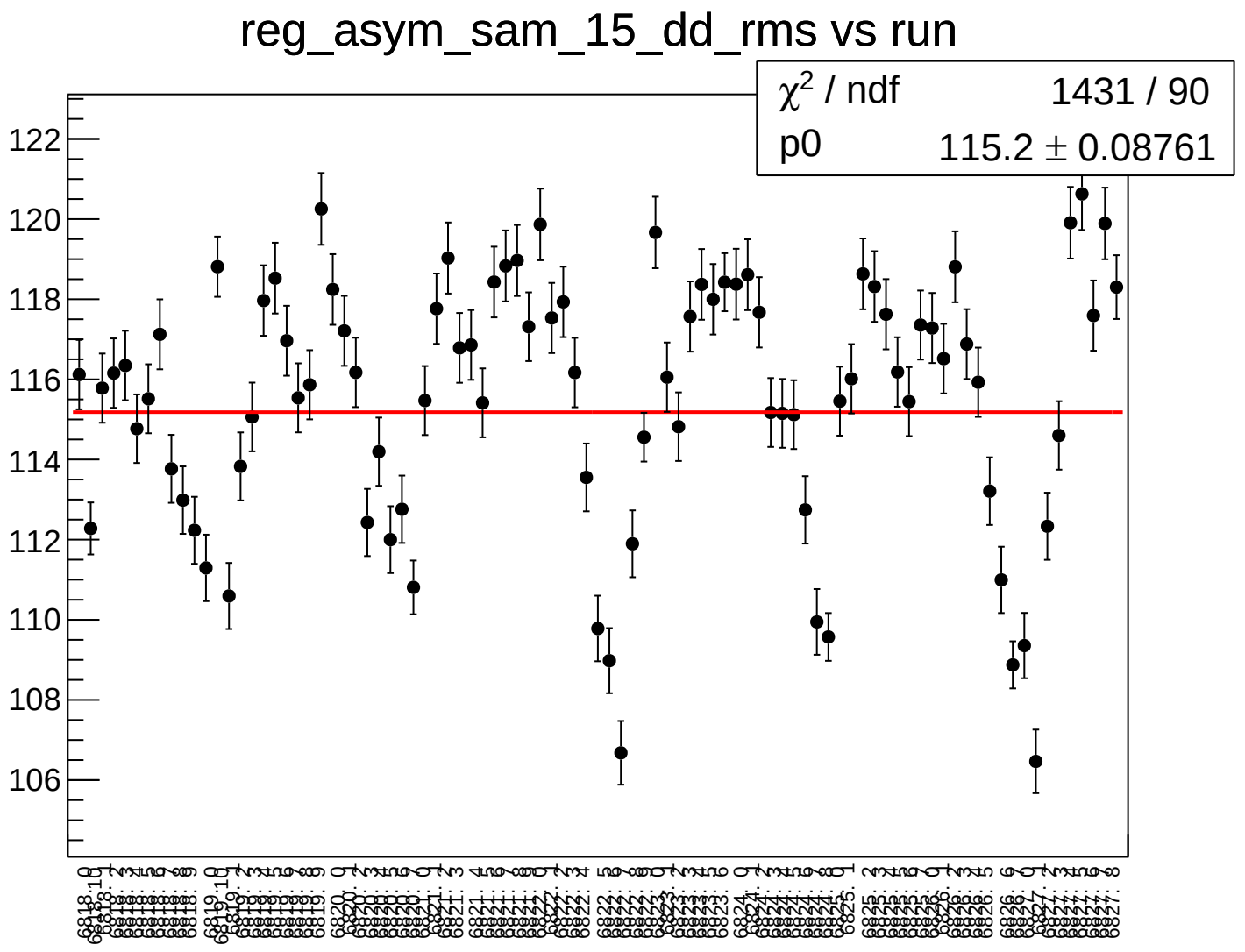

asym_sam_48_avg_mean vs run
χ² / ndf 73.41 / 90
p0 398.6 ± 1168
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −457.6
Std Dev 492.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

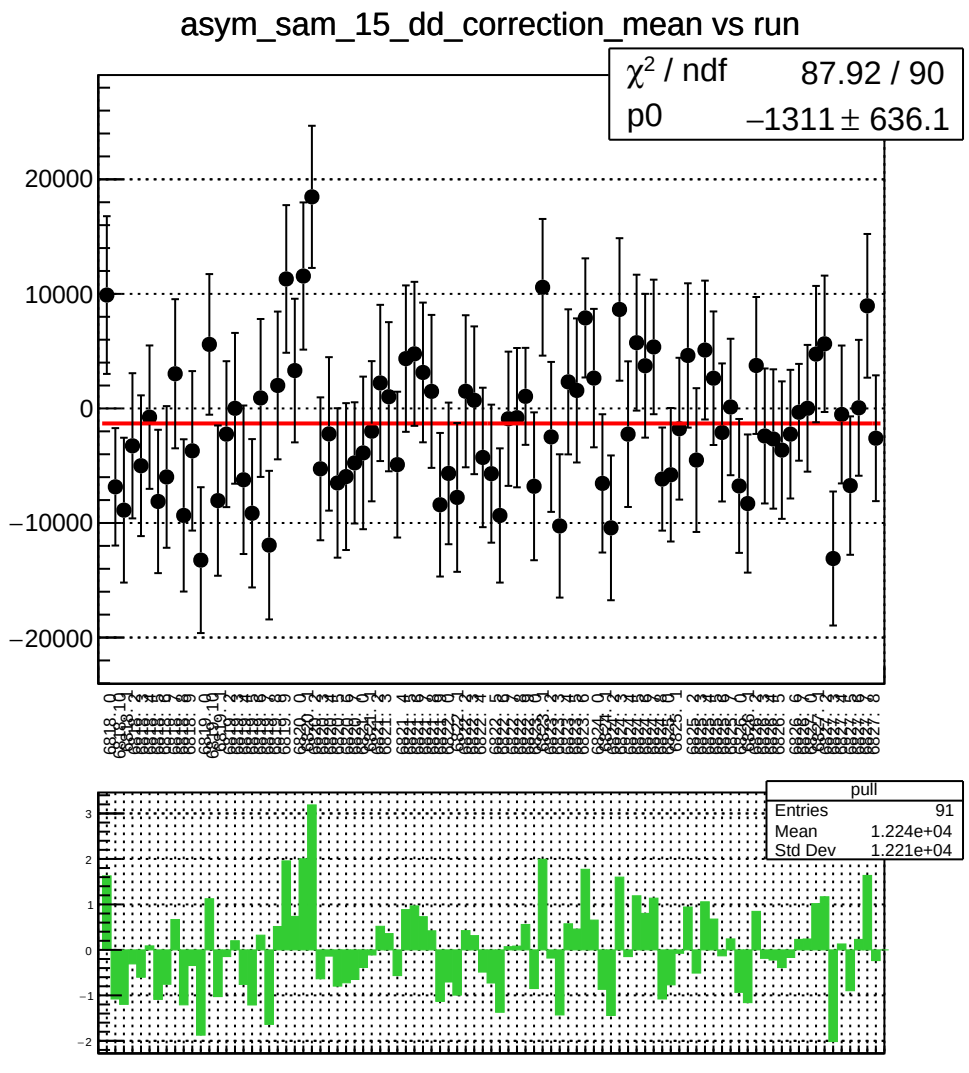

pull1D
Entries 91
Mean 0.002684
Std Dev 0.8982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

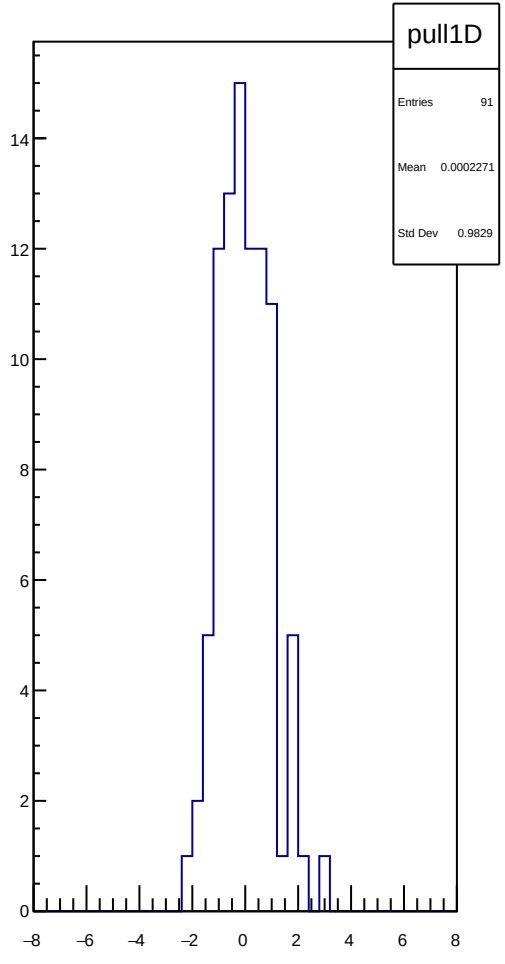

asym_sam_48_avg_rms vs run
χ² / ndf 2660 / 90
p0 1086 ± 0.8261
1200
1150
1100
1050
1000

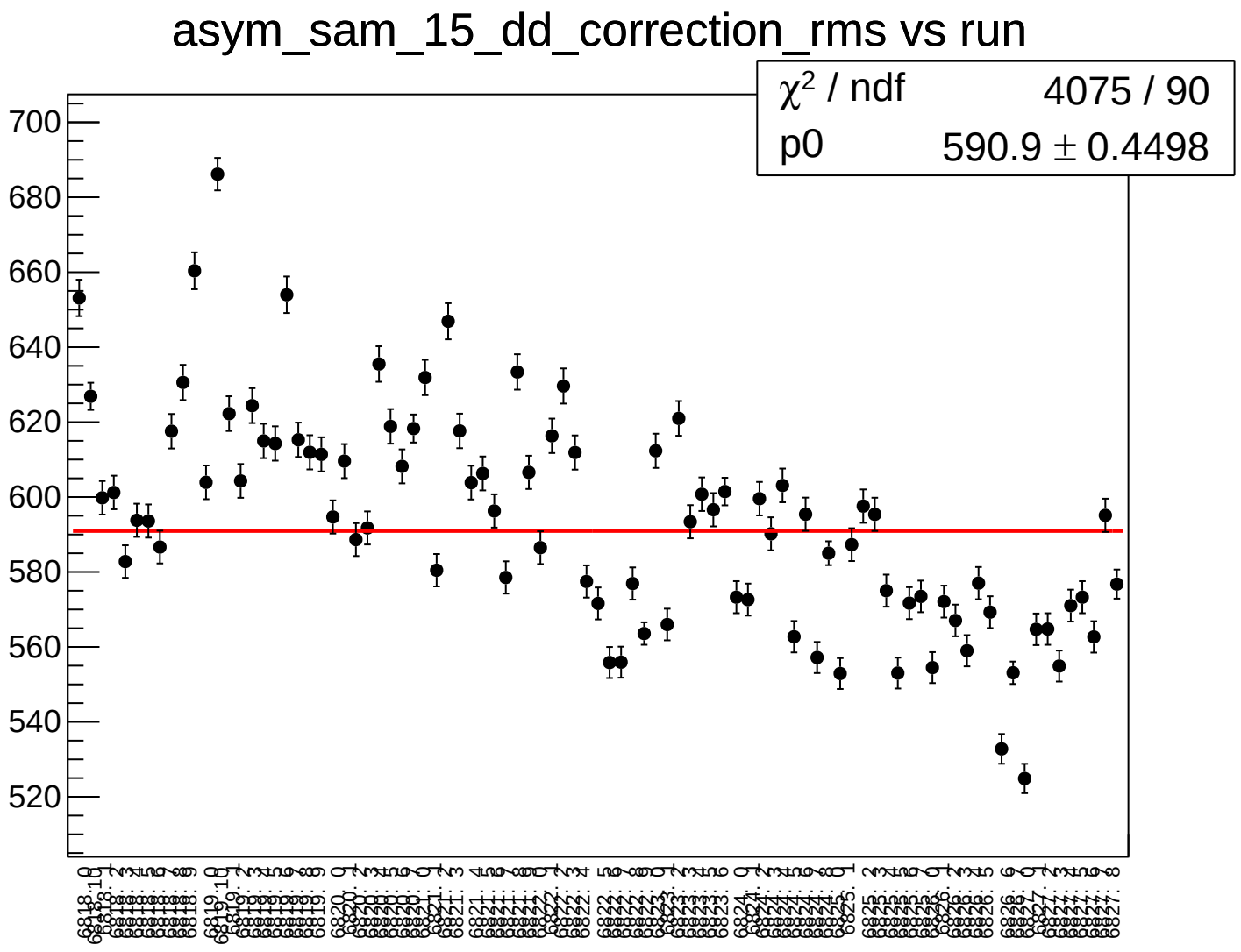

reg_asym_sam_15_dd_mean vs run
χ^2 / ndf 95.05 / 90
p0 297.9 ± 123.9
pull
Entries 91
Mean 189.4
Std Dev 139.3

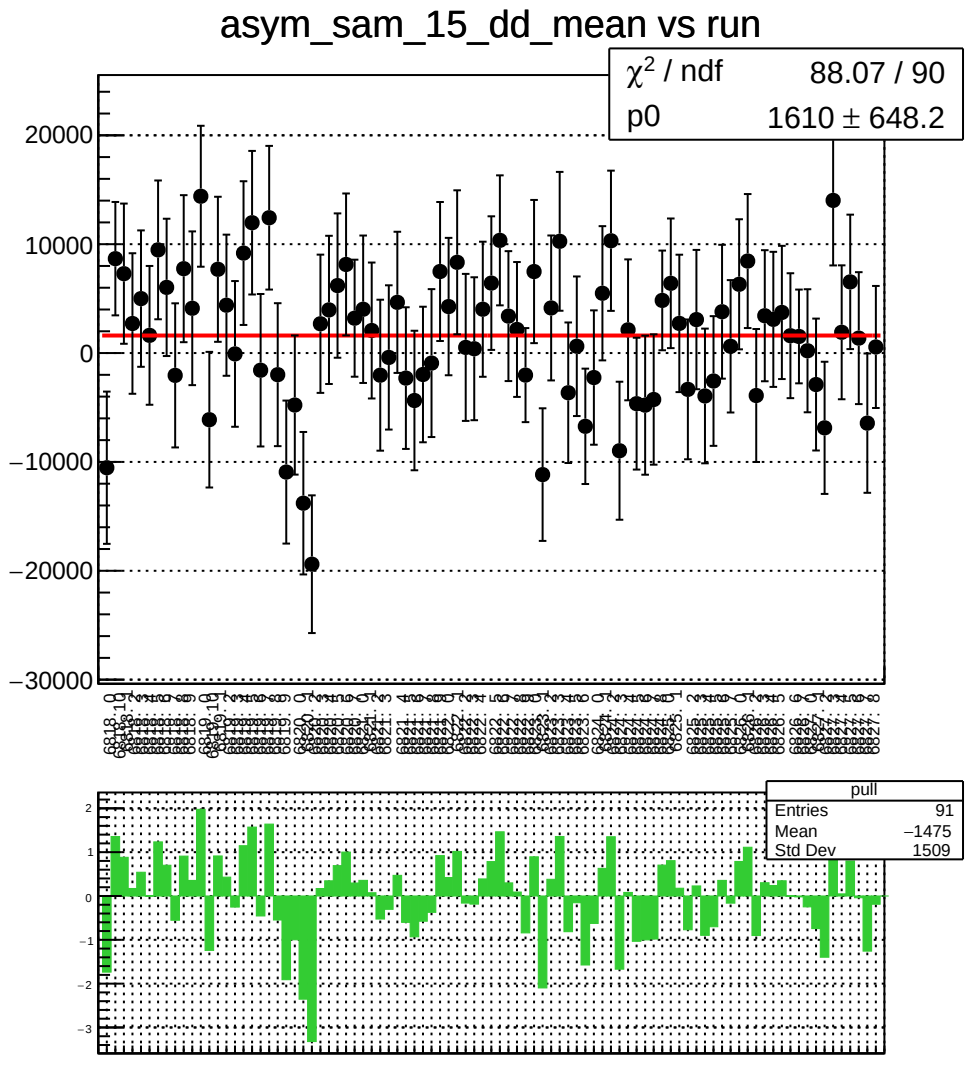

pull1D
Entries 91
Mean 0.009953
Std Dev 1.022

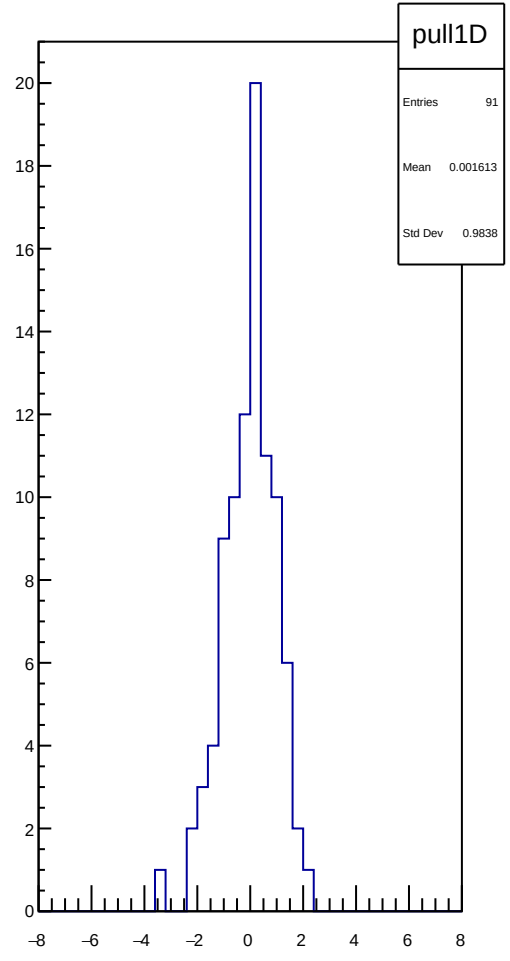

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1431 / 90
p0 115.2 ± 0.08761
122
120
118
116
114
112
110
108
106

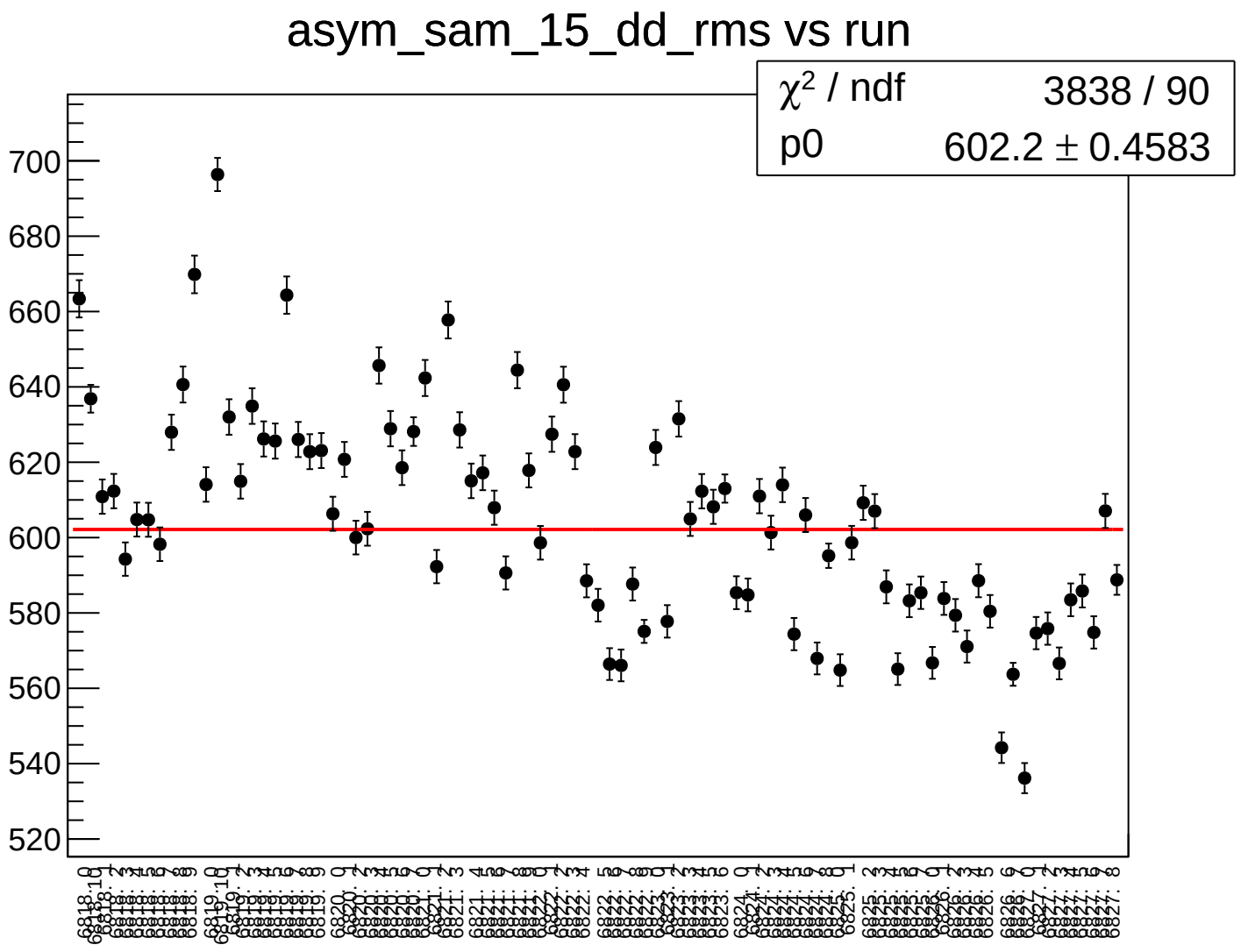

asym_sam_15_dd_correction_mean vs run
χ² / ndf 87.92 / 90
p0 −1311 ± 636.1
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 1.224e+04
Std Dev 1.221e+04
3
2
1
0
−1
−2

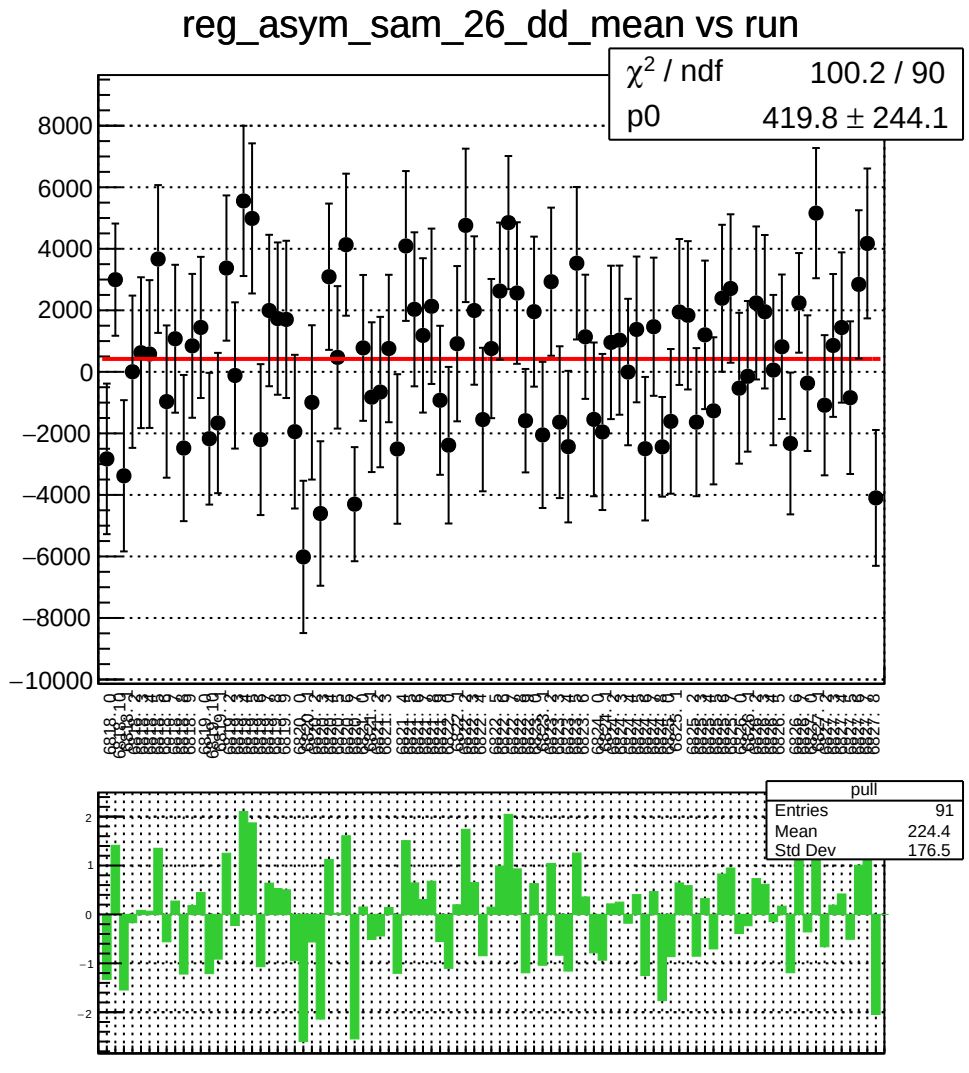

pull1D
Entries 91
Mean 0.0002271
Std Dev 0.9829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

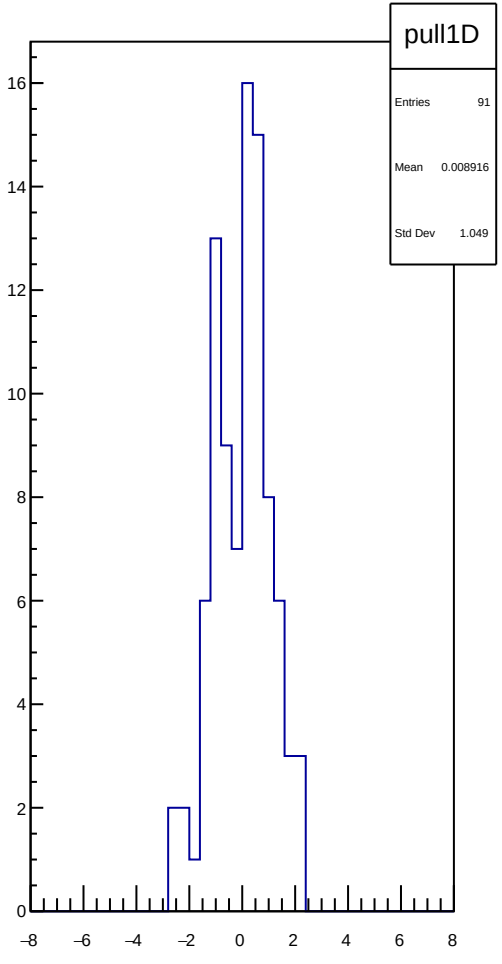

asym_sam_15_dd_correction_rms vs run
χ² / ndf 4075 / 90
p0 590.9 ± 0.4498
700
680
660
640
620
600
580
560
540
520

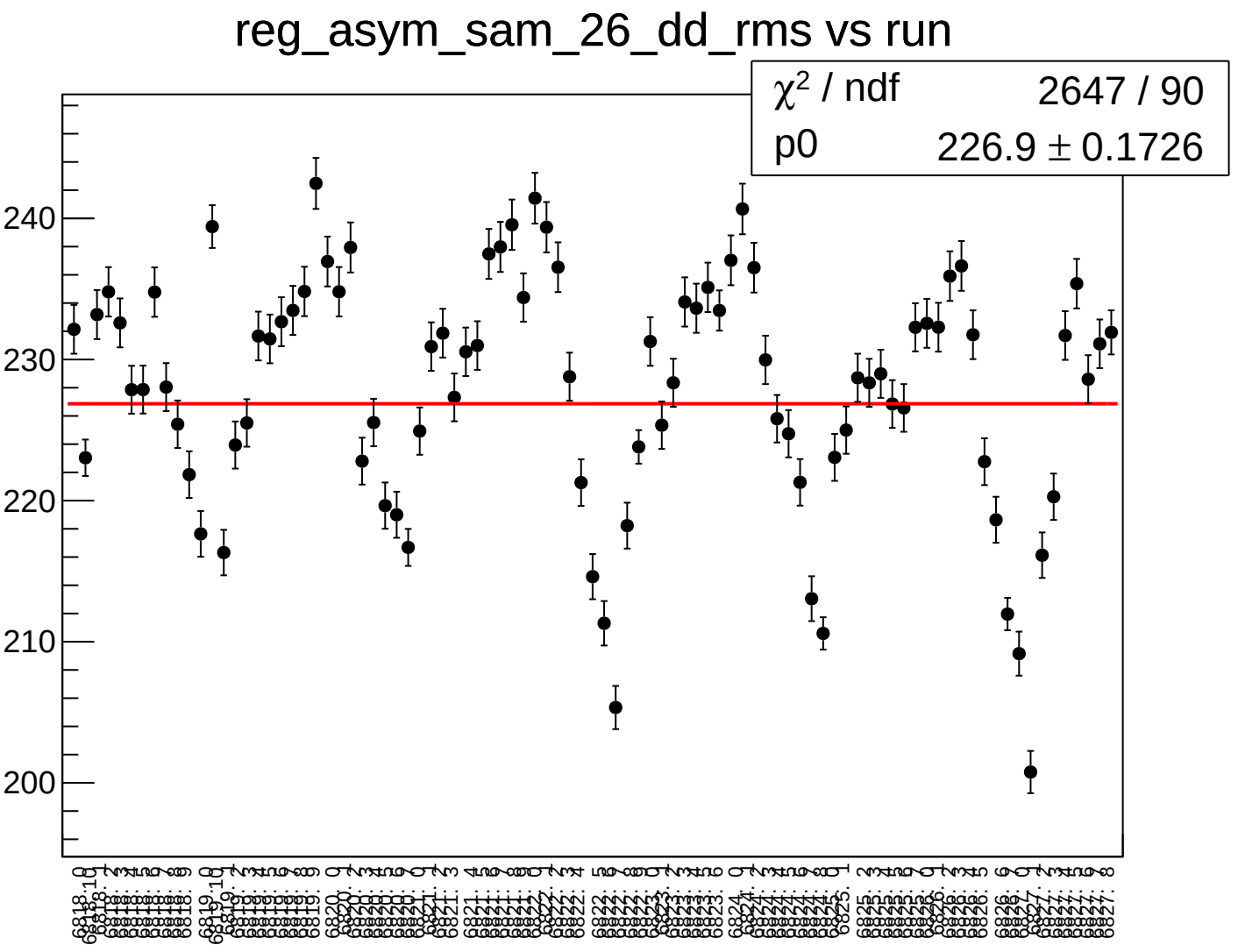

asym_sam_15_dd_mean vs run
χ² / ndf 88.07 / 90
p0 1610 ± 648.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −1475
Std Dev 1509
2
1
0
−1
−2
−3

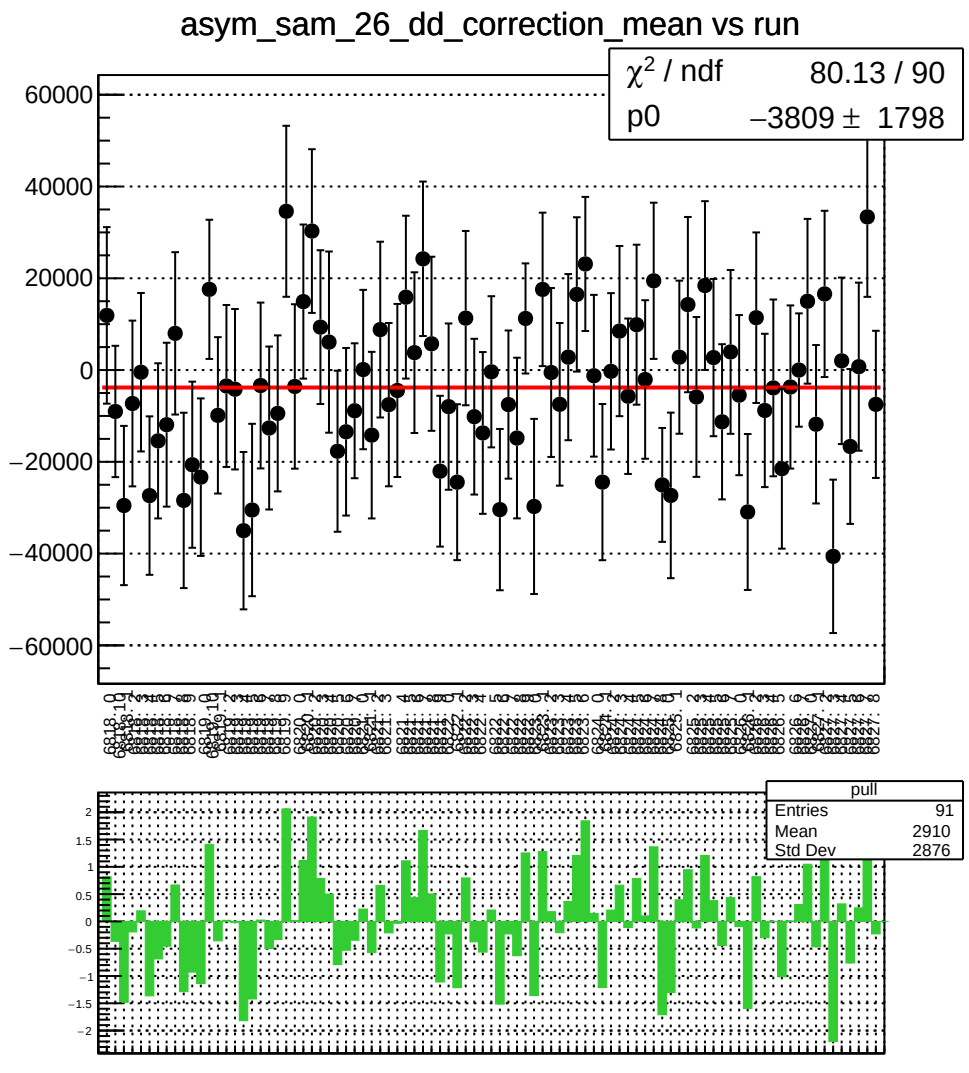

pull1D
Entries 91
Mean 0.001613
Std Dev 0.9838
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

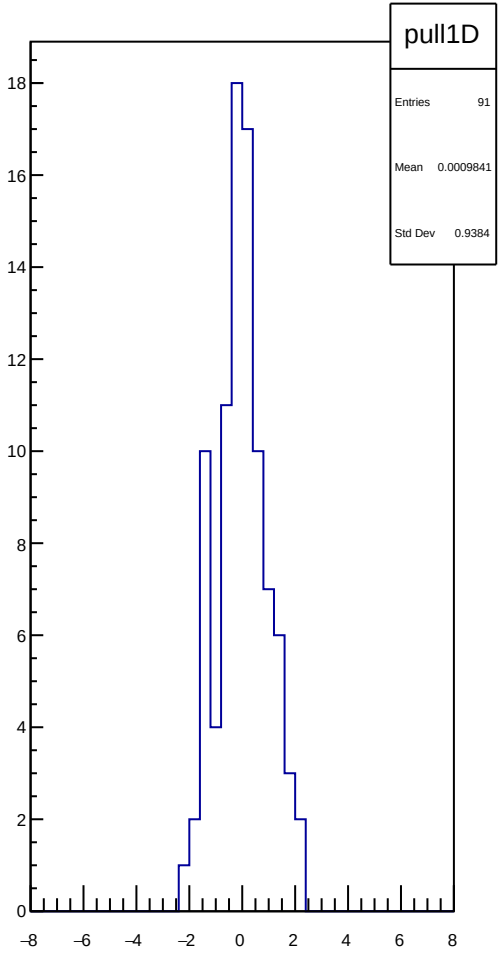

asym_sam_15_dd_rms vs run
χ² / ndf 3838 / 90
p0 602.2 ± 0.4583
700
680
660
640
620
600
580
560
540
520

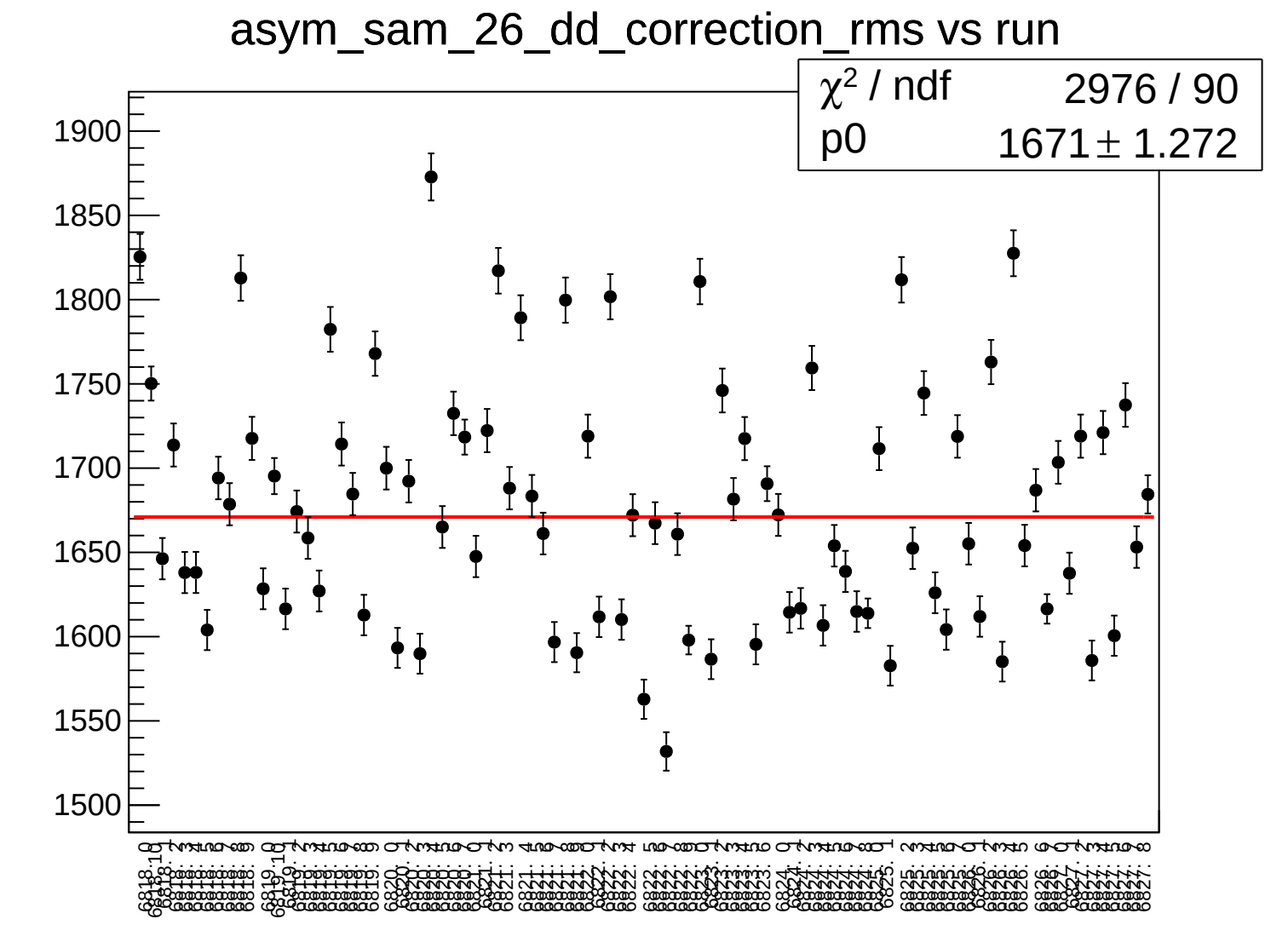

reg_asym_sam_26_dd_mean vs run
χ² / ndf 100.2 / 90
p0 419.8 ± 244.1
pull
Entries 91
Mean 224.4
Std Dev 176.5

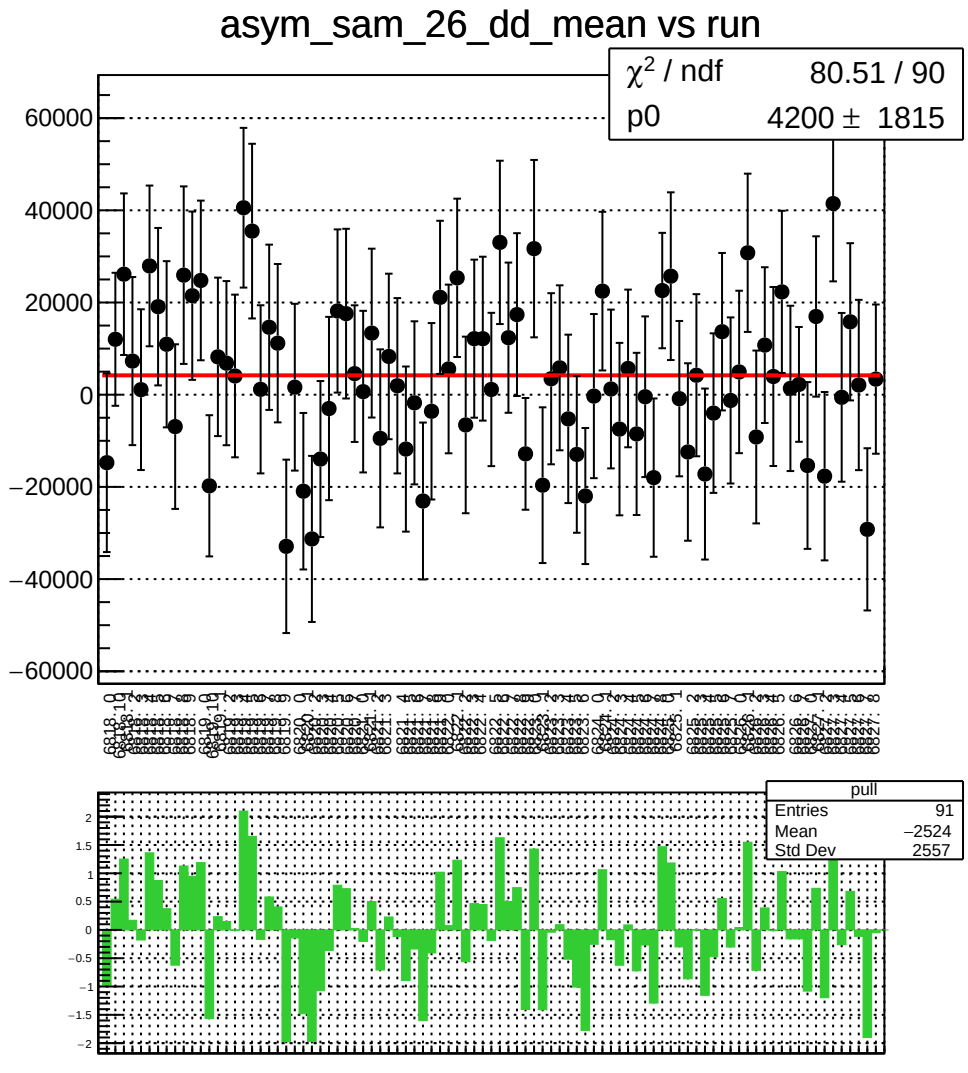

pull1D
Entries 91
Mean 0.008916
Std Dev 1.049

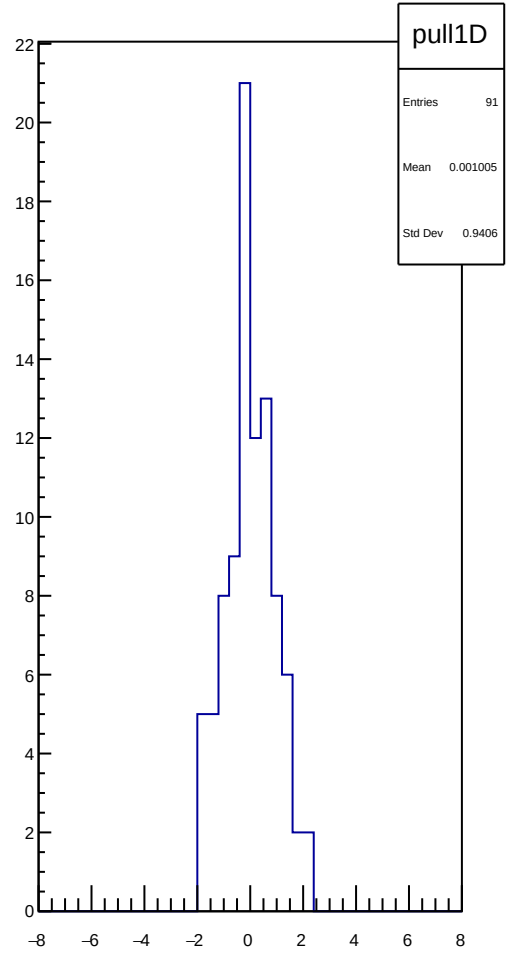

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2647 / 90
p0 226.9 ± 0.1726
240
230
220
210
200

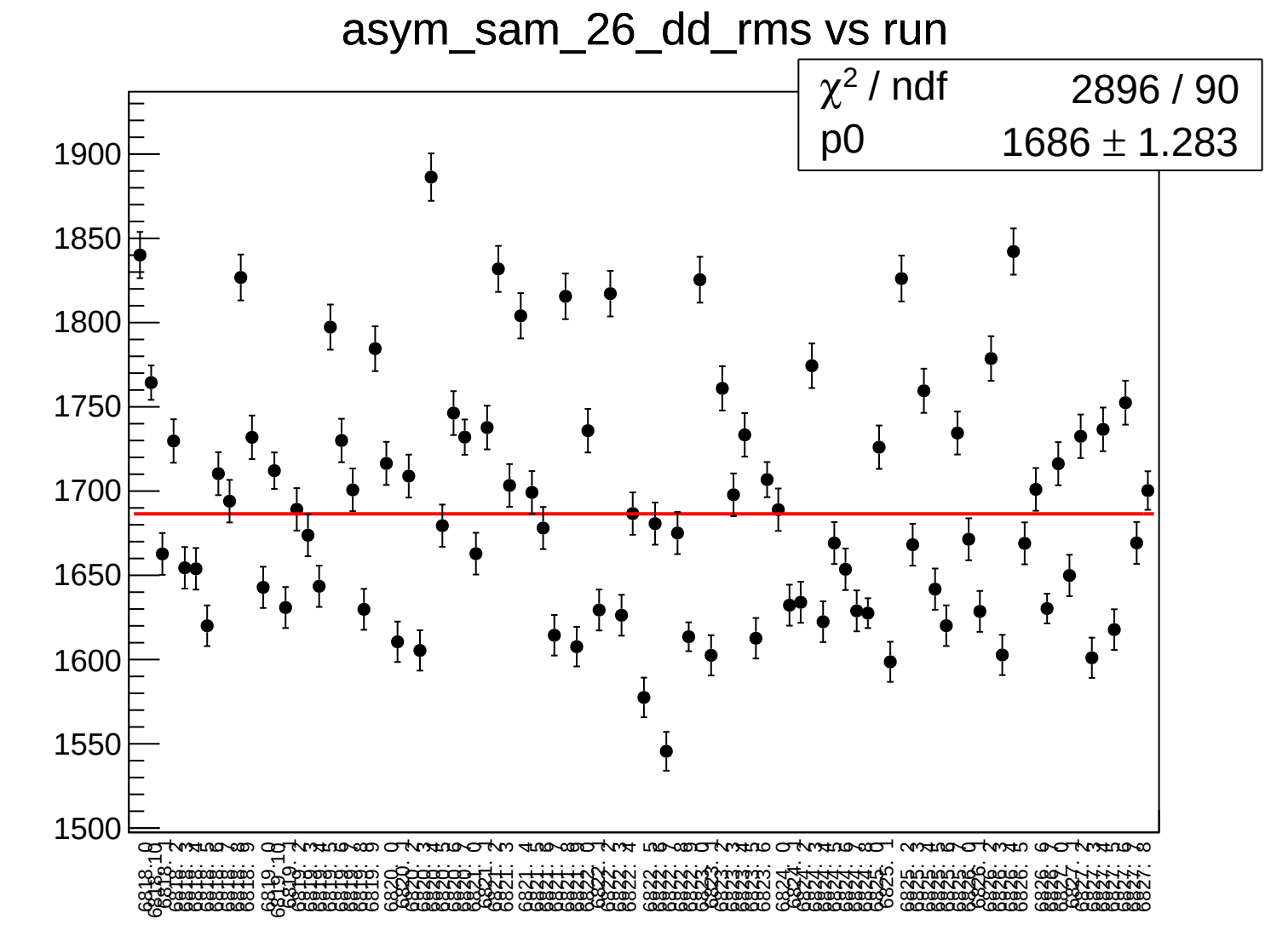

asym_sam_26_dd_correction_mean vs run
χ² / ndf 80.13 / 90
p0 −3809 ± 1798
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 2910
Std Dev 2876
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

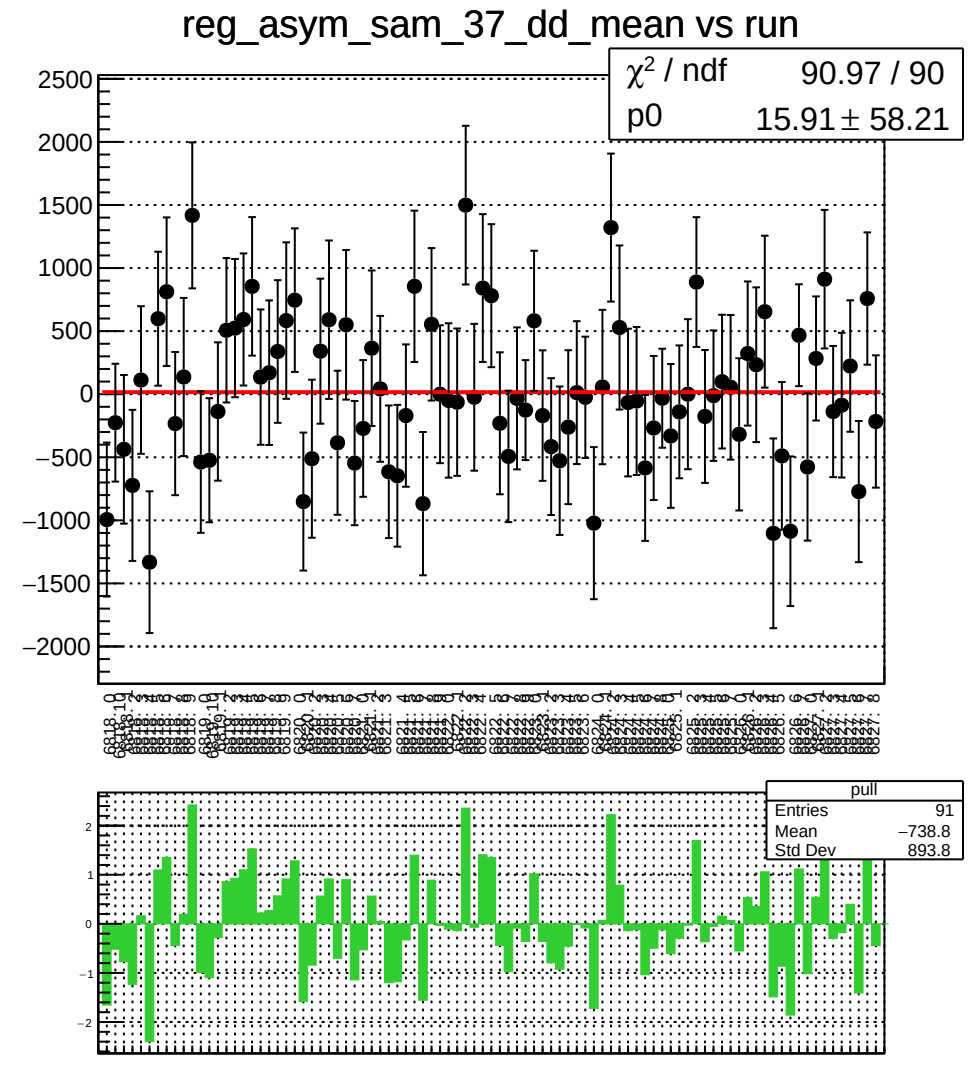

pull1D
Entries 91
Mean 0.0009841
Std Dev 0.9384
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

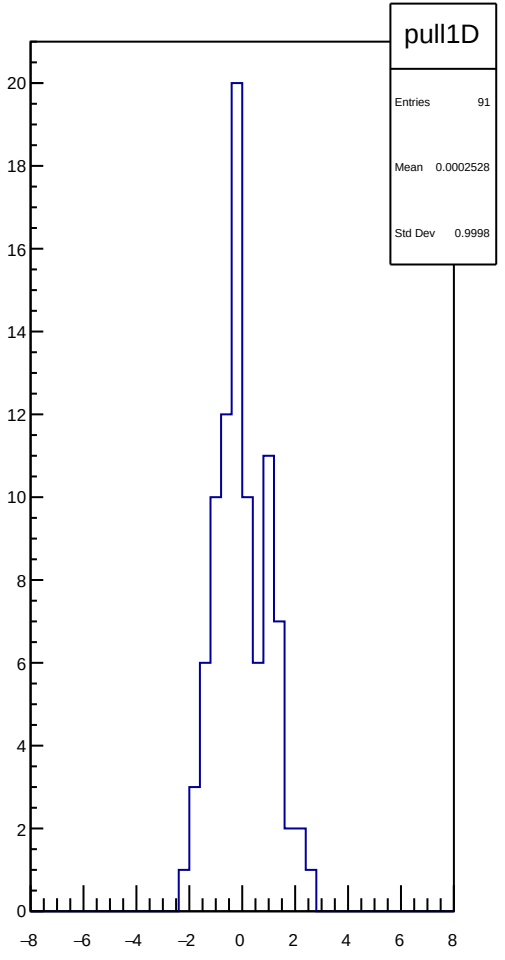

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2976 / 90
p0 1671 ± 1.272
1900
1850
1800
1750
1700
1650
1600
1550
1500

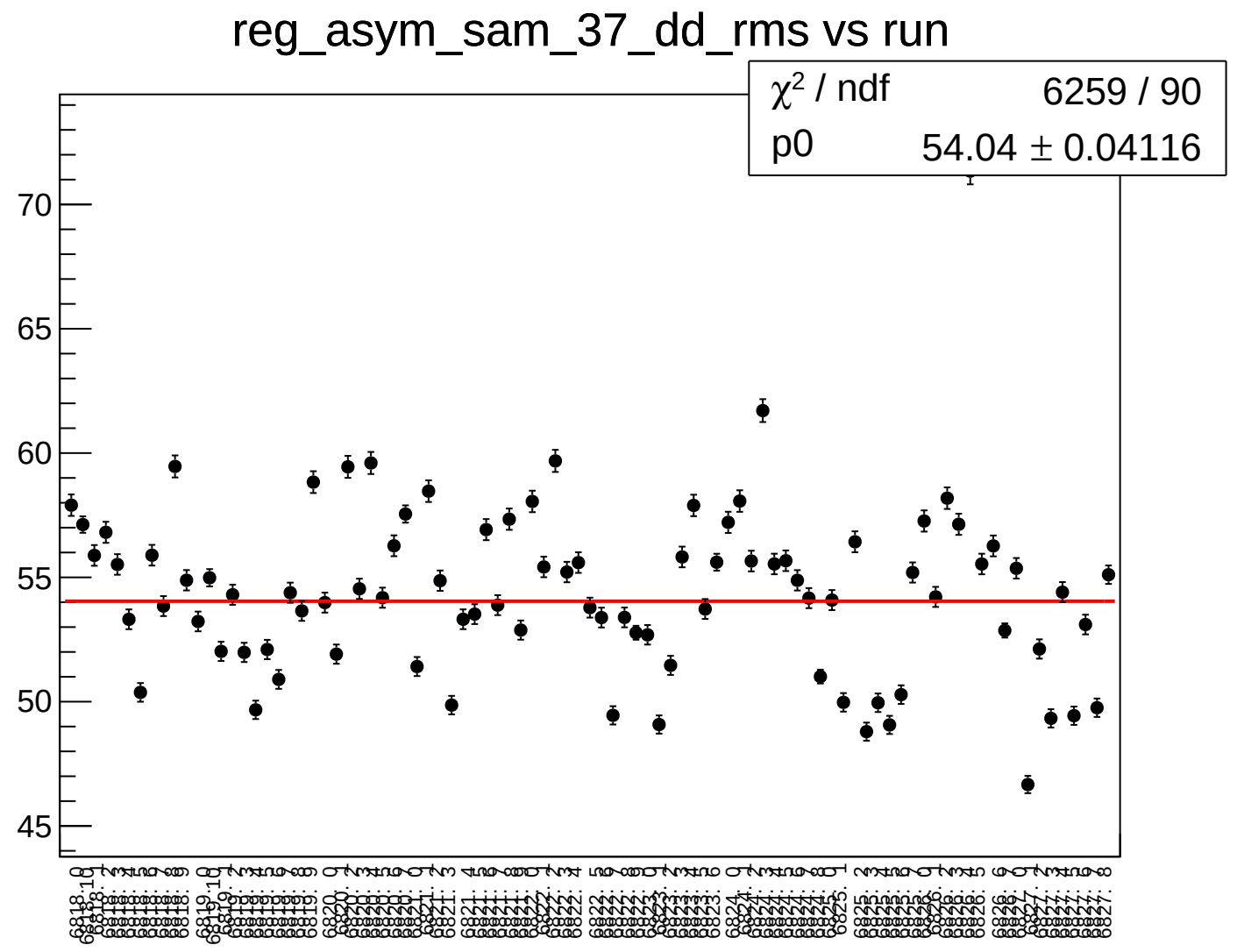

asym_sam_26_dd_mean vs run
χ² / ndf 80.51 / 90
p0 4200 ± 1815
pull
Entries 91
Mean −2524
Std Dev 2557

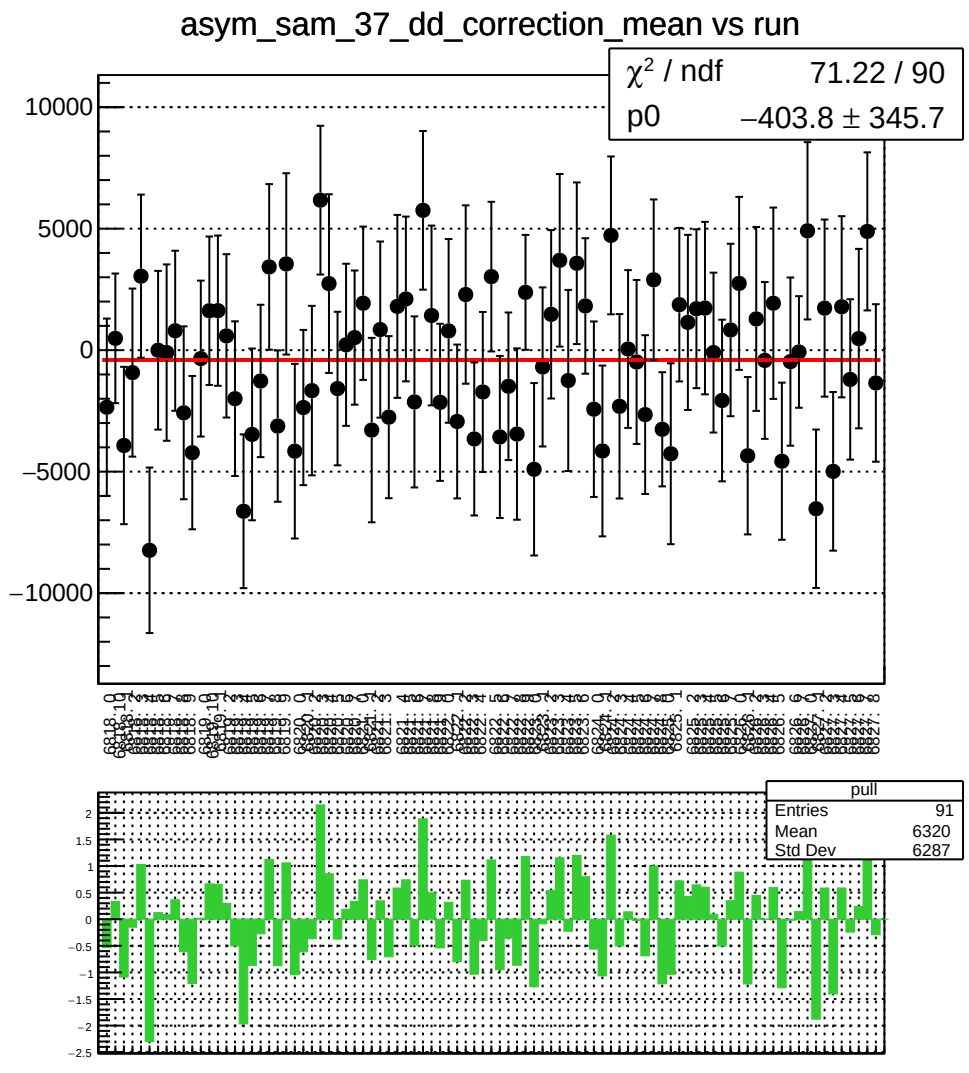

pull1D
Entries 91
Mean 0.001005
Std Dev 0.9406

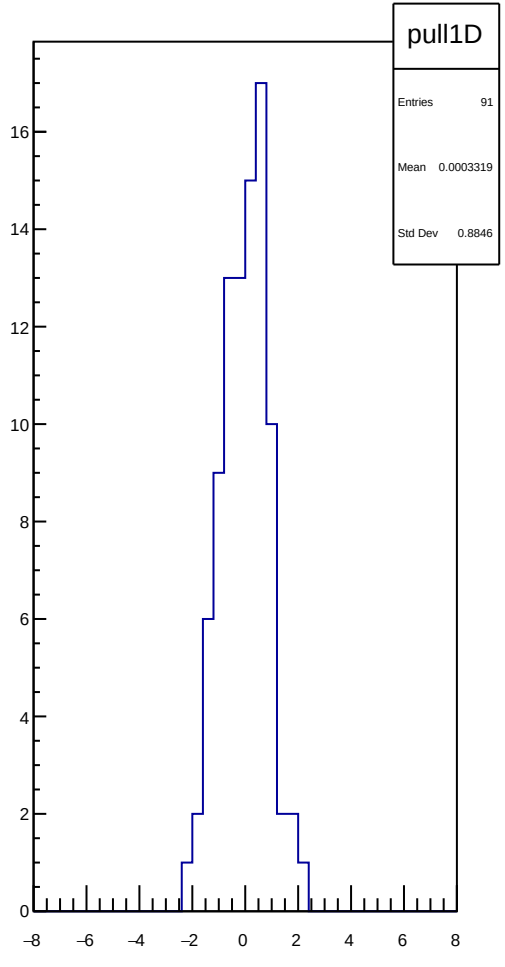

asym_sam_26_dd_rms vs run
χ² / ndf 2896 / 90
p0 1686 ± 1.283
1900
1850
1800
1750
1700
1650
1600
1550
1500

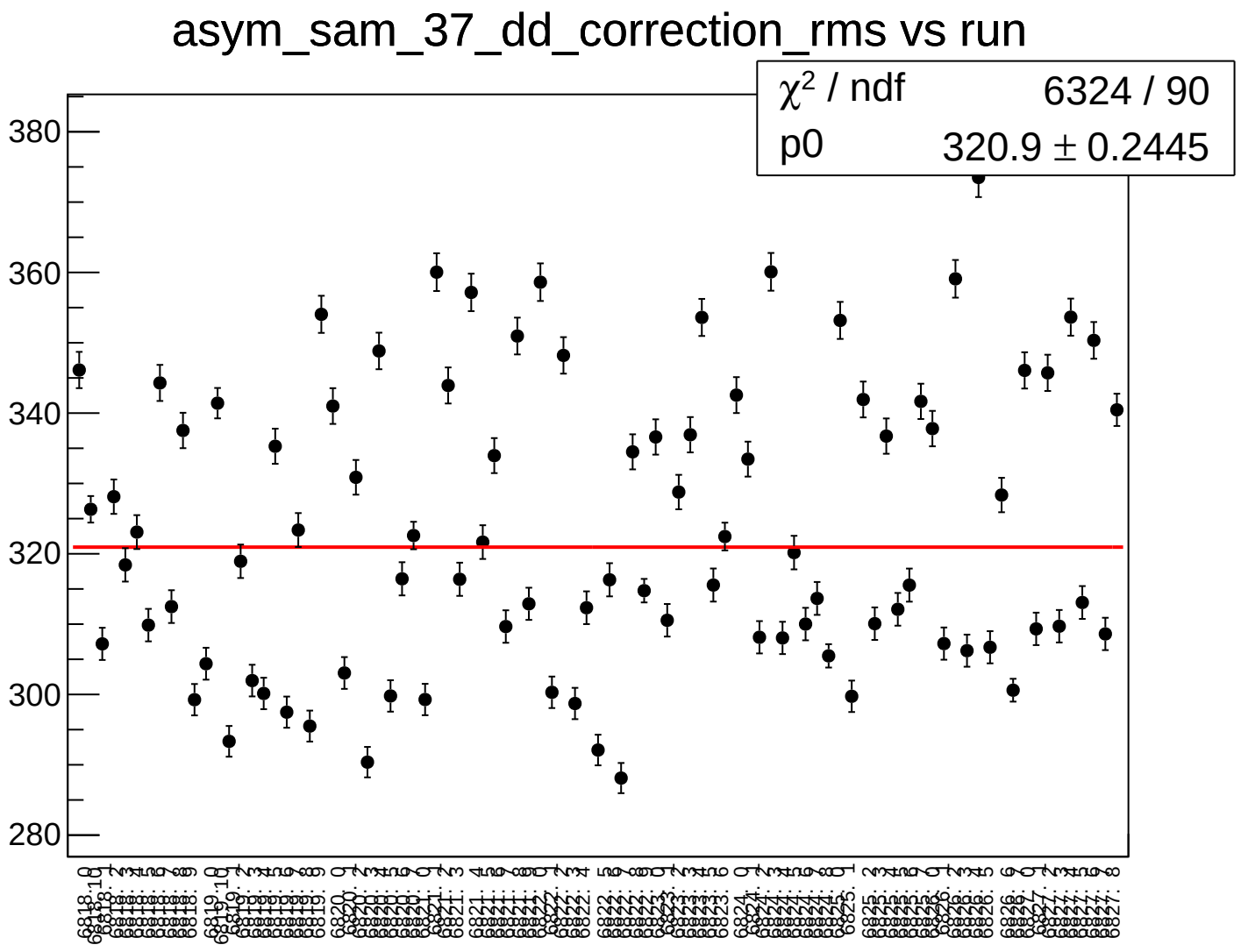

reg_asym_sam_37_dd_mean vs run
χ² / ndf 90.97 / 90
p0 15.91 ± 58.21
pull
Entries 91
Mean −738.8
Std Dev 893.8

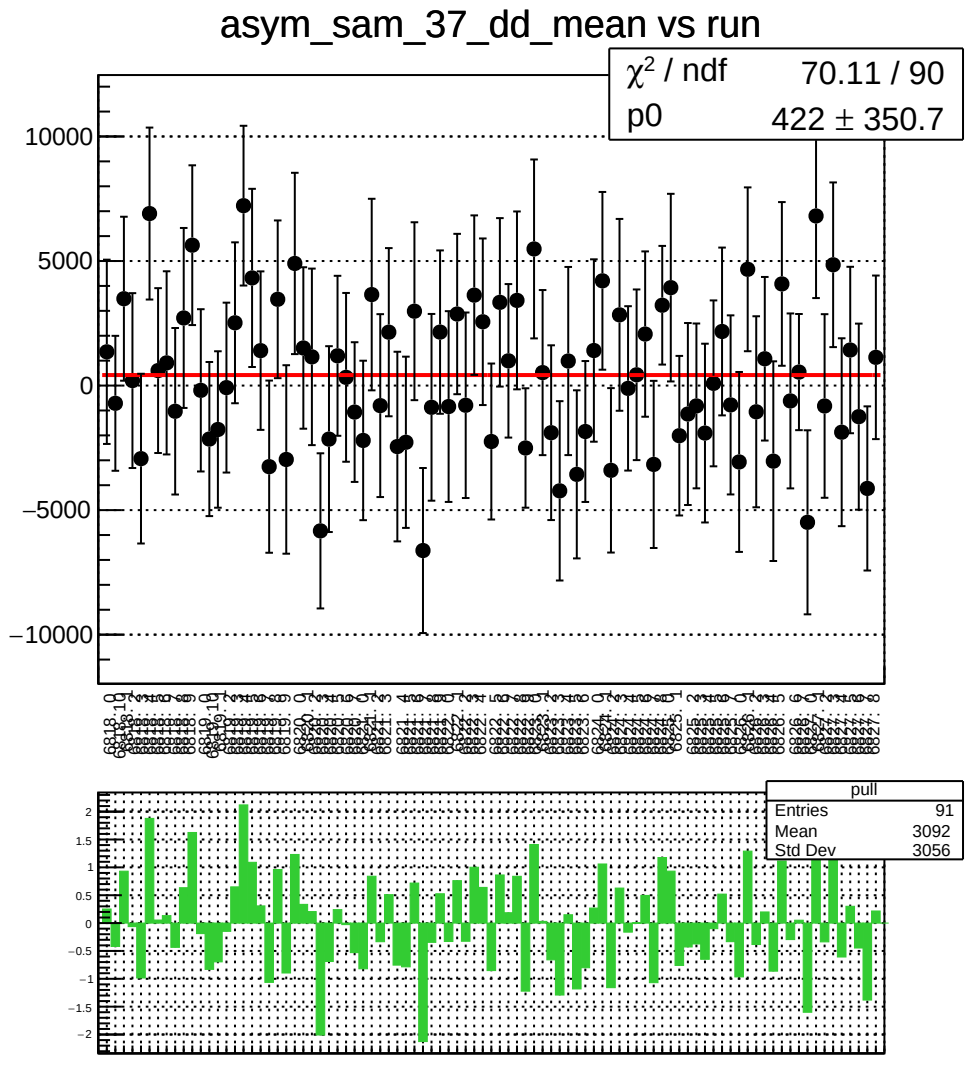

pull1D
Entries 91
Mean 0.0002528
Std Dev 0.9998

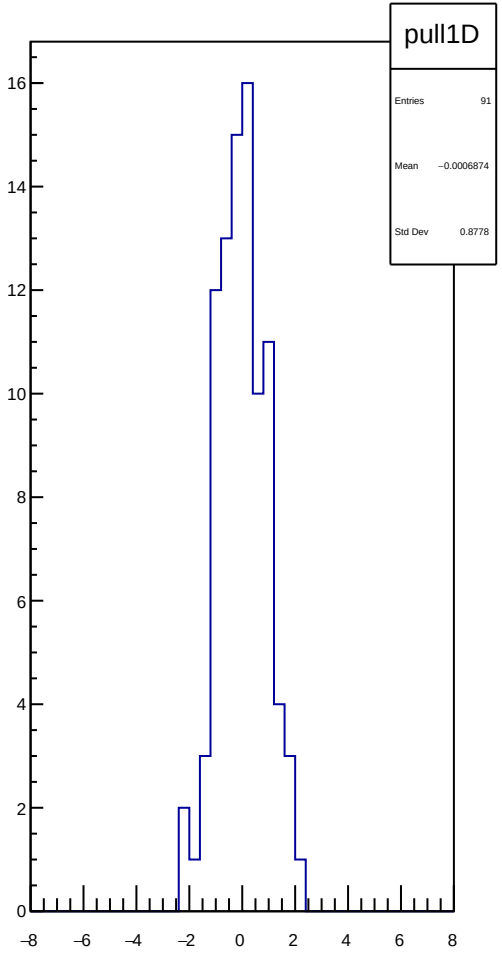

reg_asym_sam_37_dd_rms vs run
χ² / ndf 6259 / 90
p0 54.04 ± 0.04116
70
65
60
55
50
45

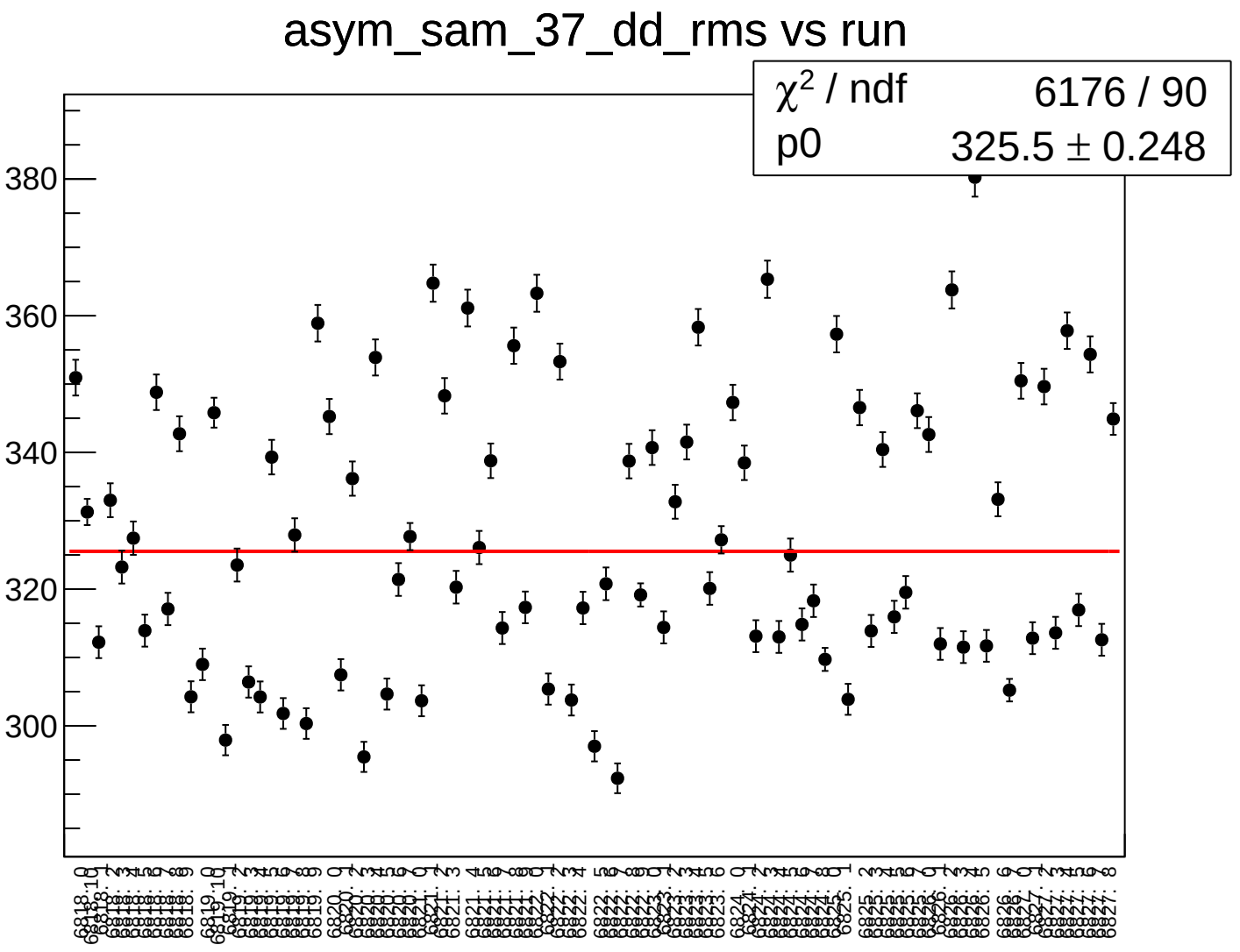

asym_sam_37_dd_correction_mean vs run
χ² / ndf 71.22 / 90
p0 −403.8 ± 345.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 6320
Std Dev 6287
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

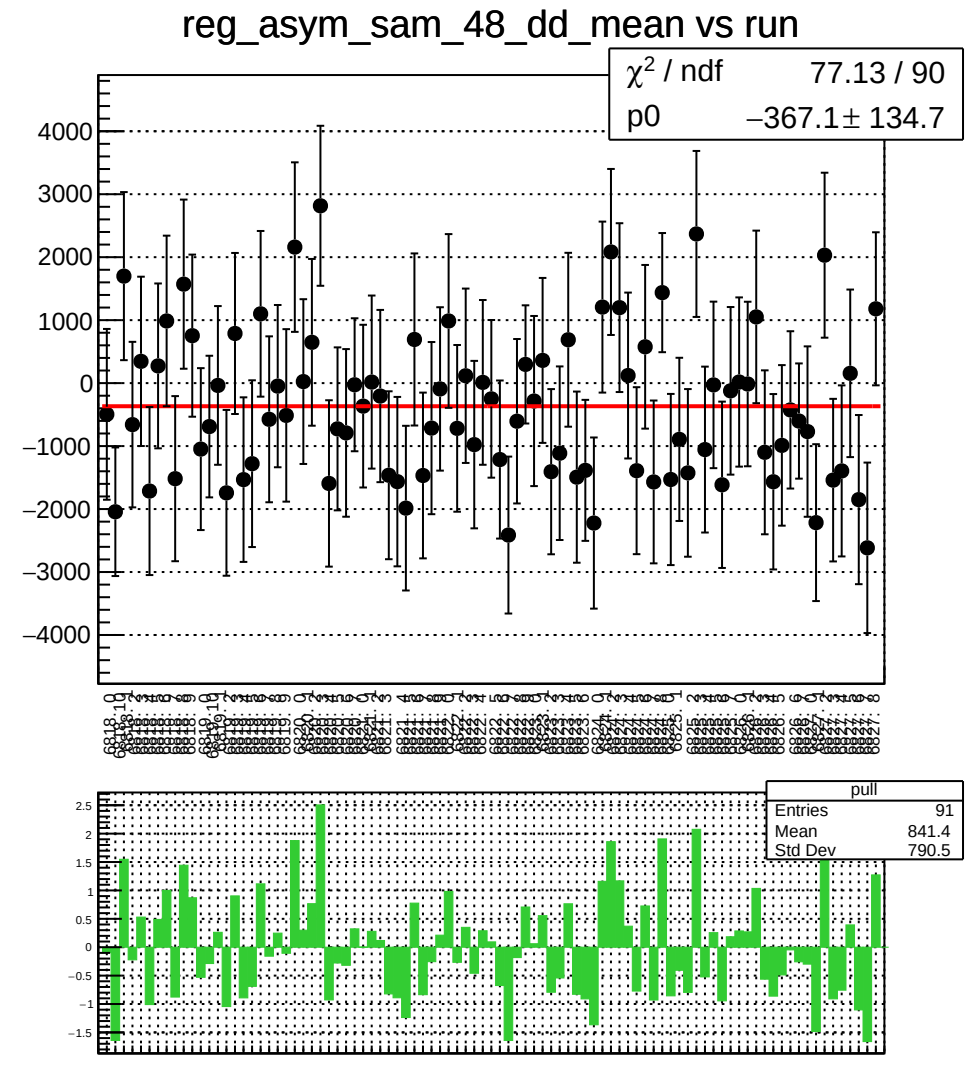

pull1D
Entries 91
Mean 0.0003319
Std Dev 0.8846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

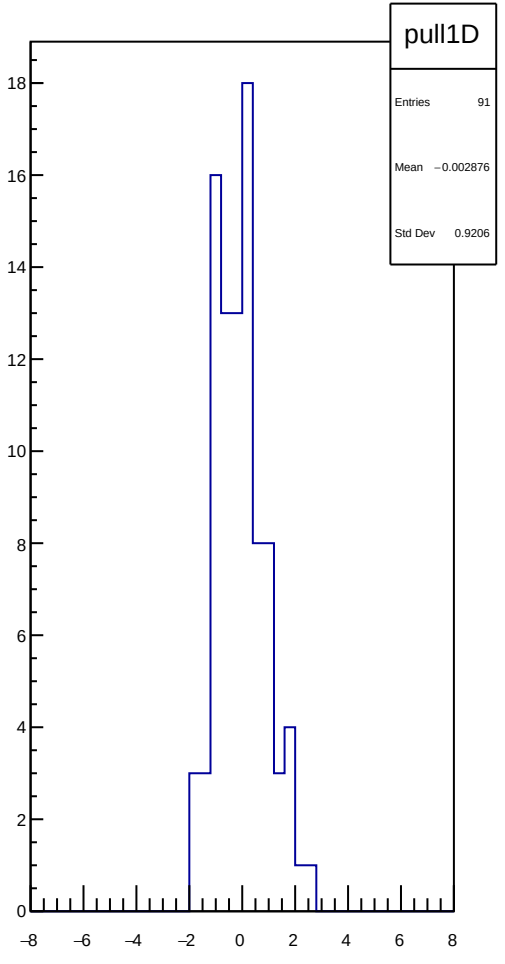

asym_sam_37_dd_correction_rms vs run
χ² / ndf 6324 / 90
p0 320.9 ± 0.2445
380
360
340
320
300
280

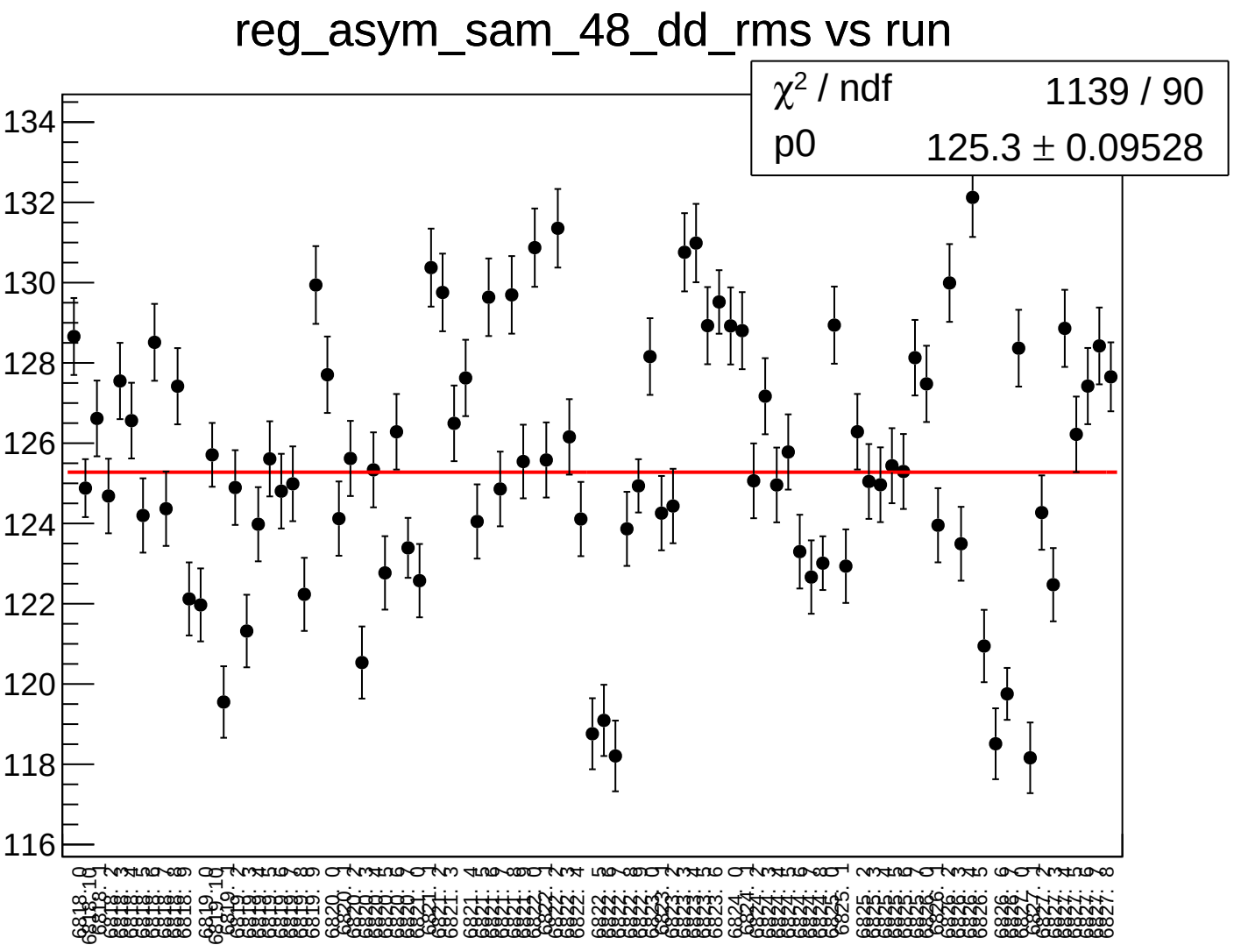

asym_sam_37_dd_mean vs run
χ² / ndf 70.11 / 90
p0 422 ± 350.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 3092
Std Dev 3056
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

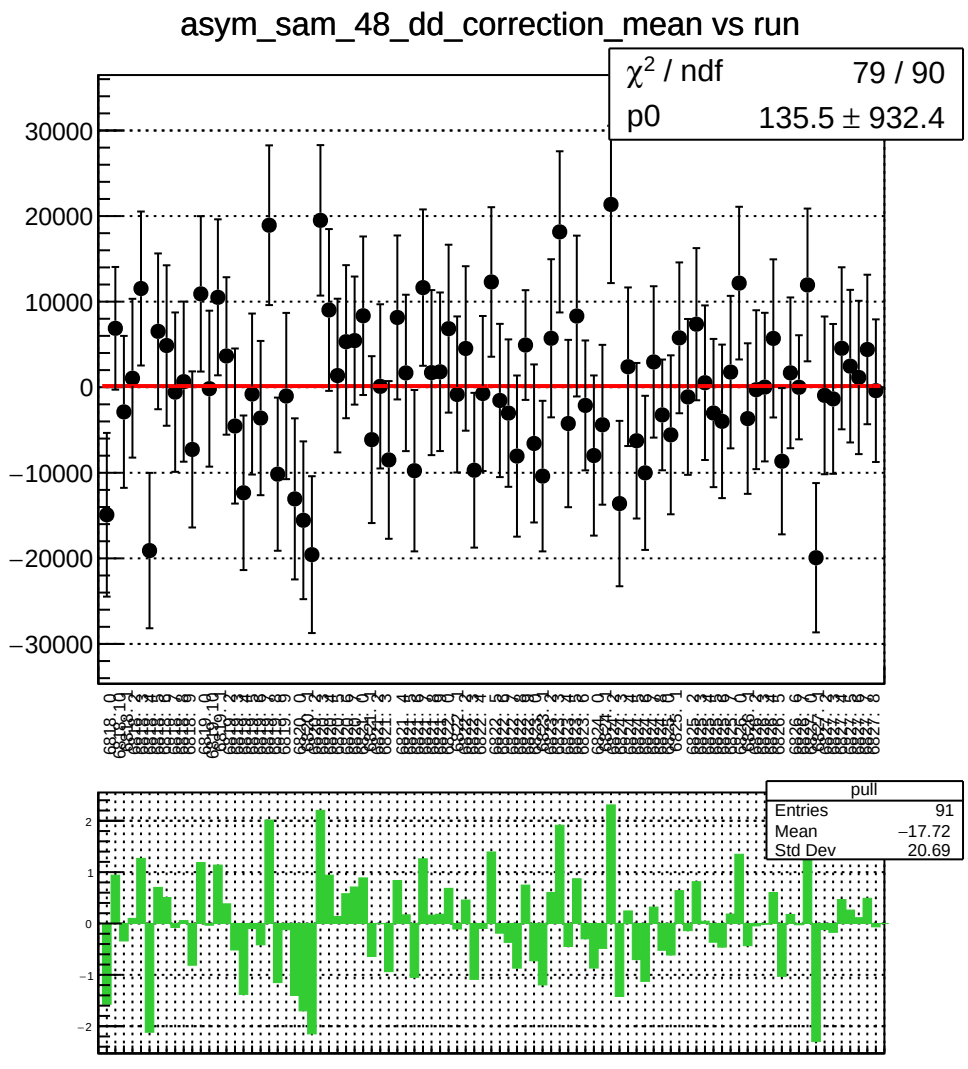

pull1D
Entries 91
Mean −0.0006874
Std Dev 0.8778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

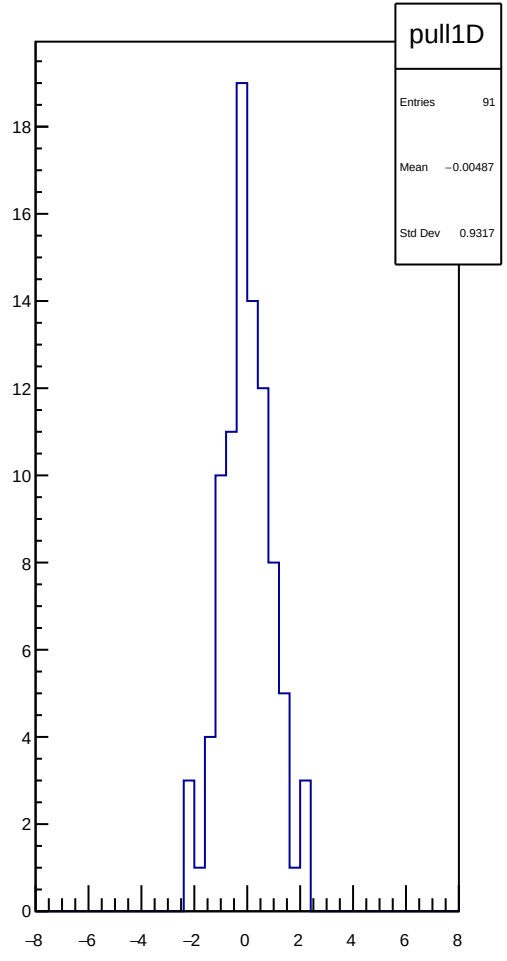

asym_sam_37_dd_rms vs run
χ² / ndf 6176 / 90
p0 325.5 ± 0.248
380
360
340
320
300

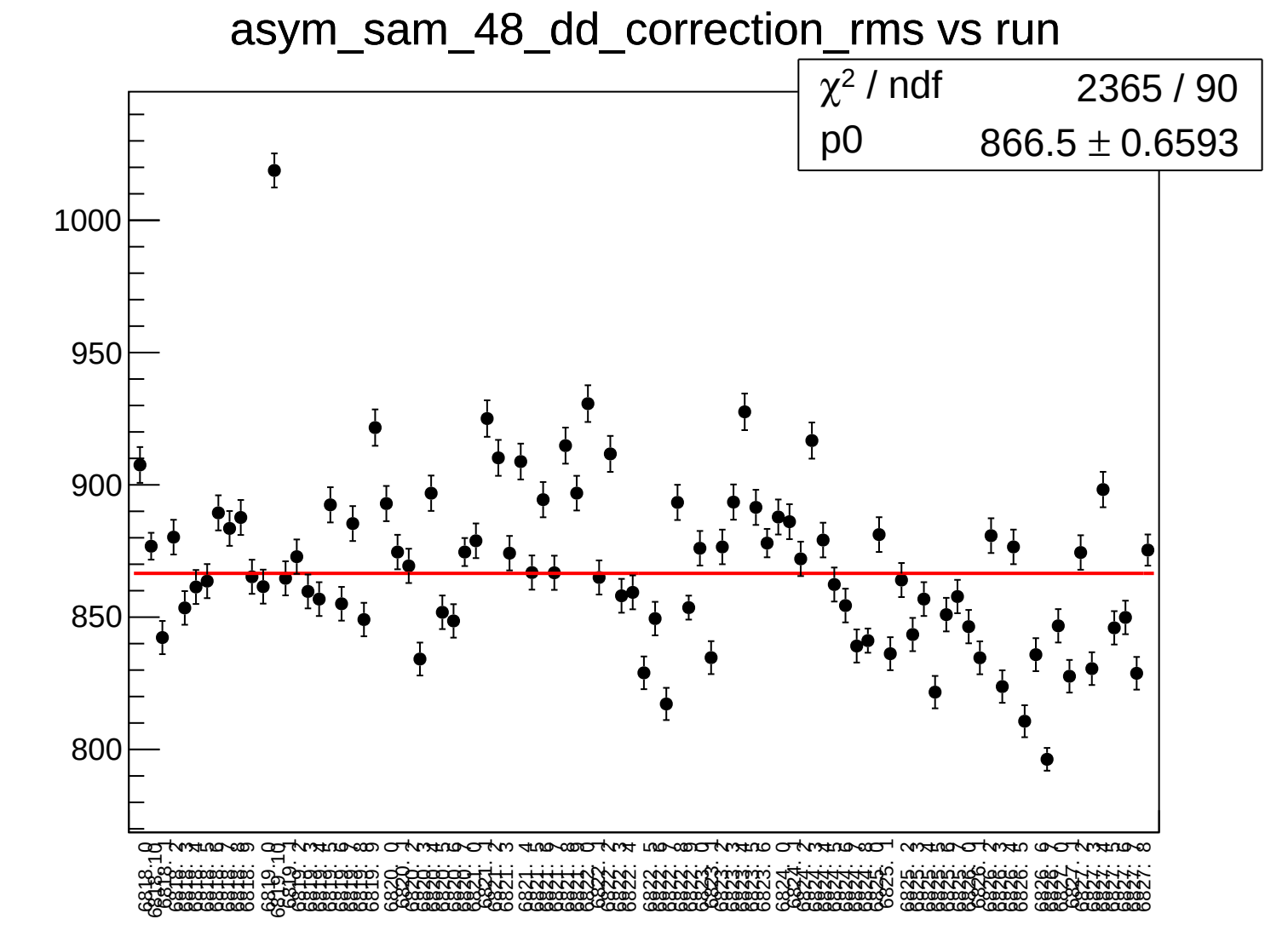

reg_asym_sam_48_dd_mean vs run
χ² / ndf 77.13 / 90
p0 −367.1 ± 134.7
pull
Entries 91
Mean 841.4
Std Dev 790.5

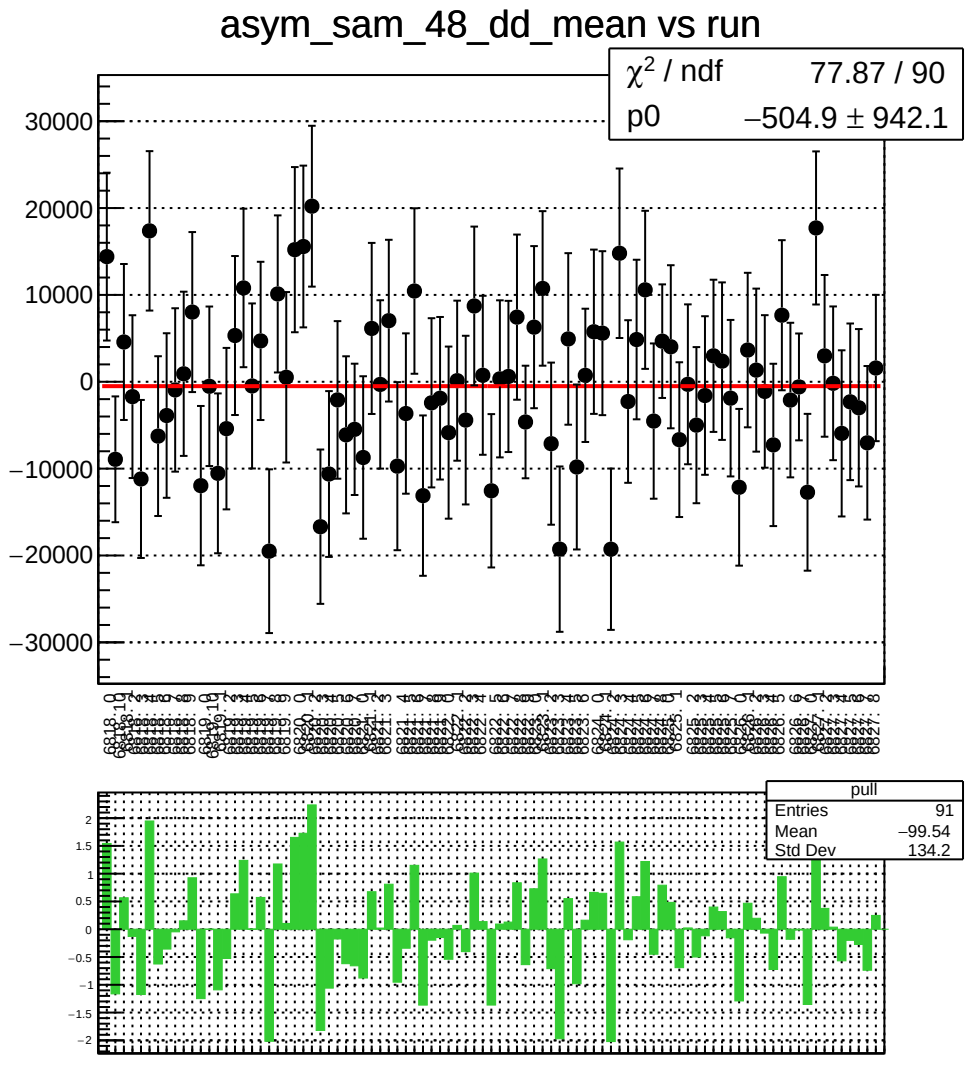

pull1D
Entries 91
Mean −0.002876
Std Dev 0.9206

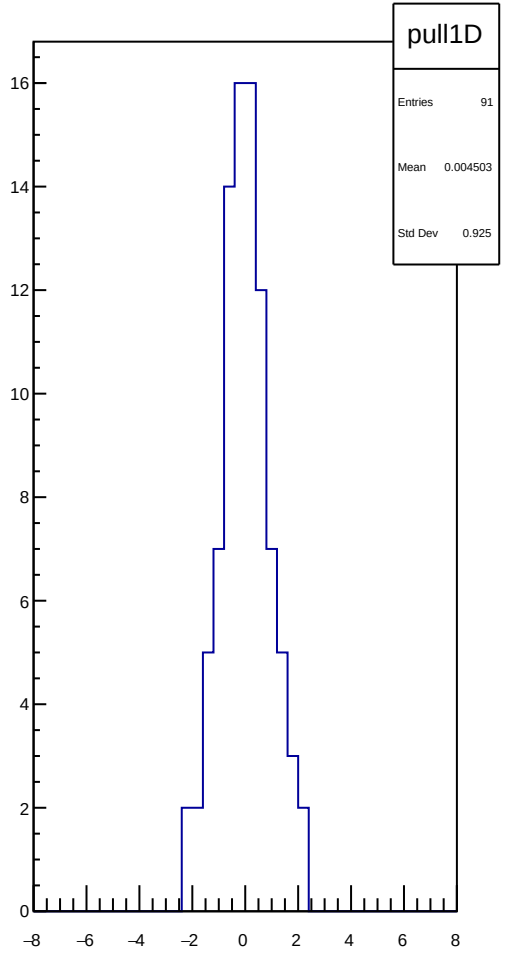

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 1139 / 90
p0 125.3 ± 0.09528
134
132
130
128
126
124
122
120
118
116

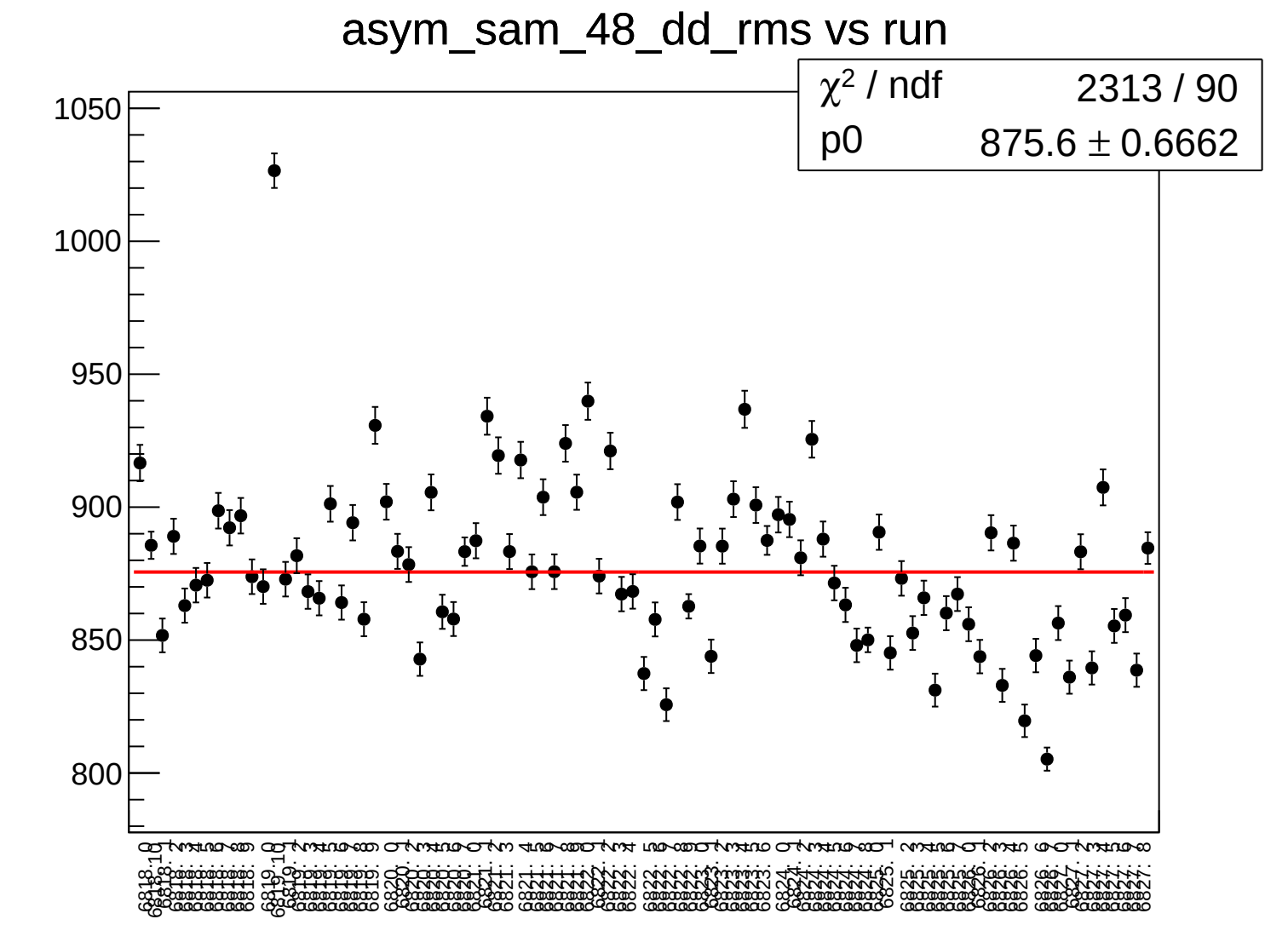

asym_sam_48_dd_correction_mean vs run
χ² / ndf 79 / 90
p0 135.5 ± 932.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −17.72
Std Dev 20.69
2
1
0
−1
−2

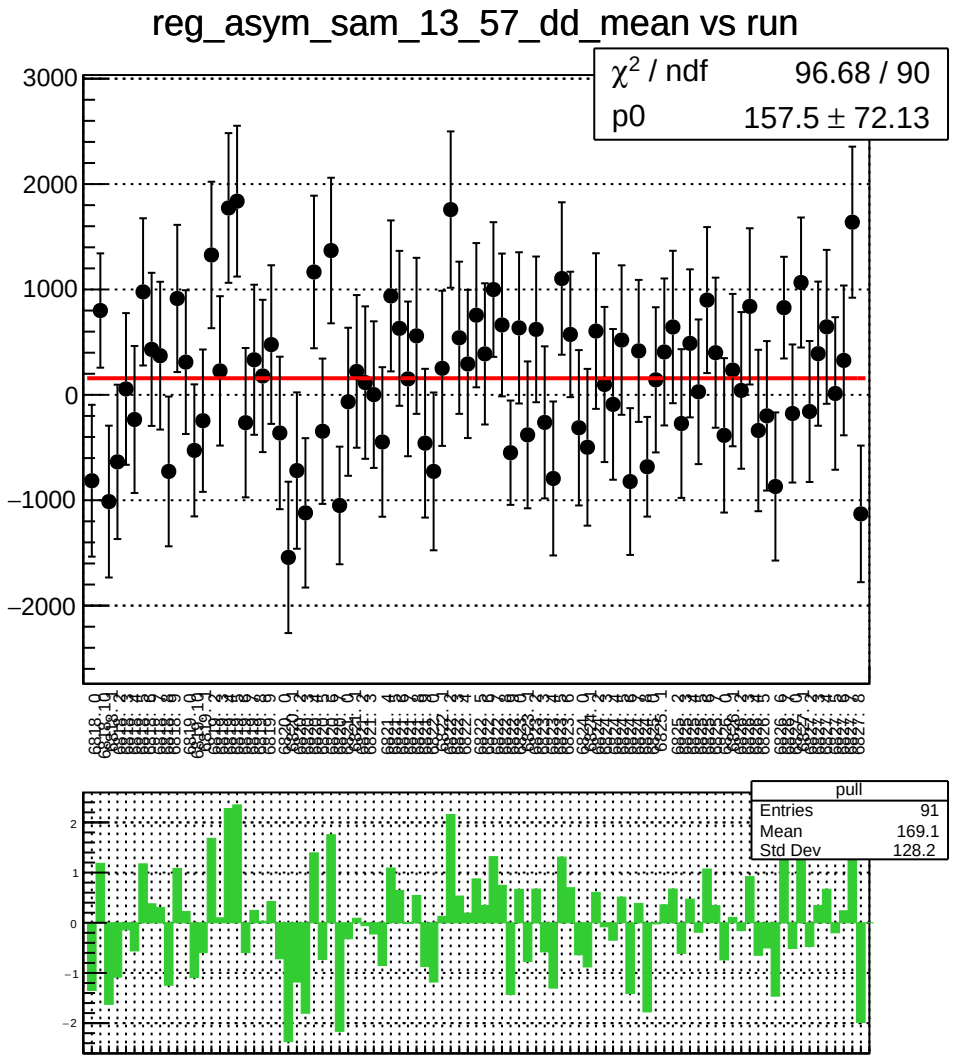

pull1D
Entries 91
Mean −0.00487
Std Dev 0.9317
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

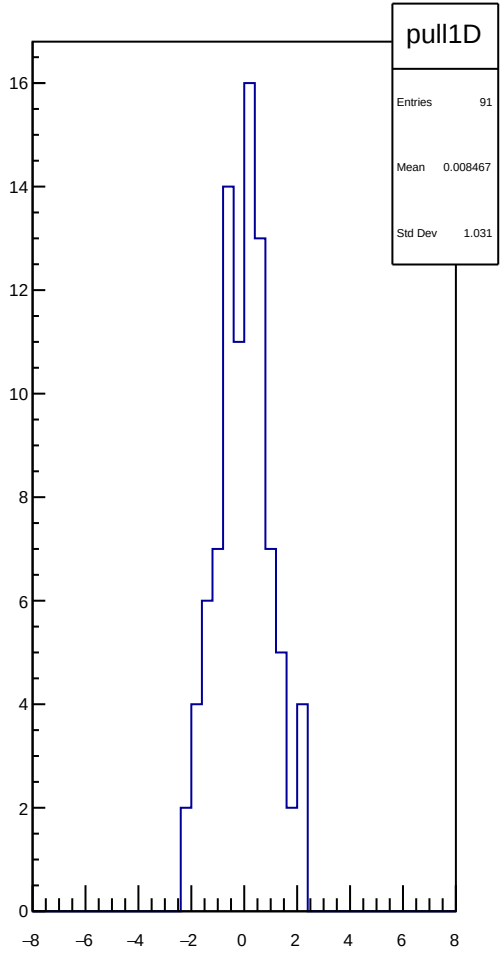

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2365 / 90
p0 866.5 ± 0.6593
1000
950
900
850
800

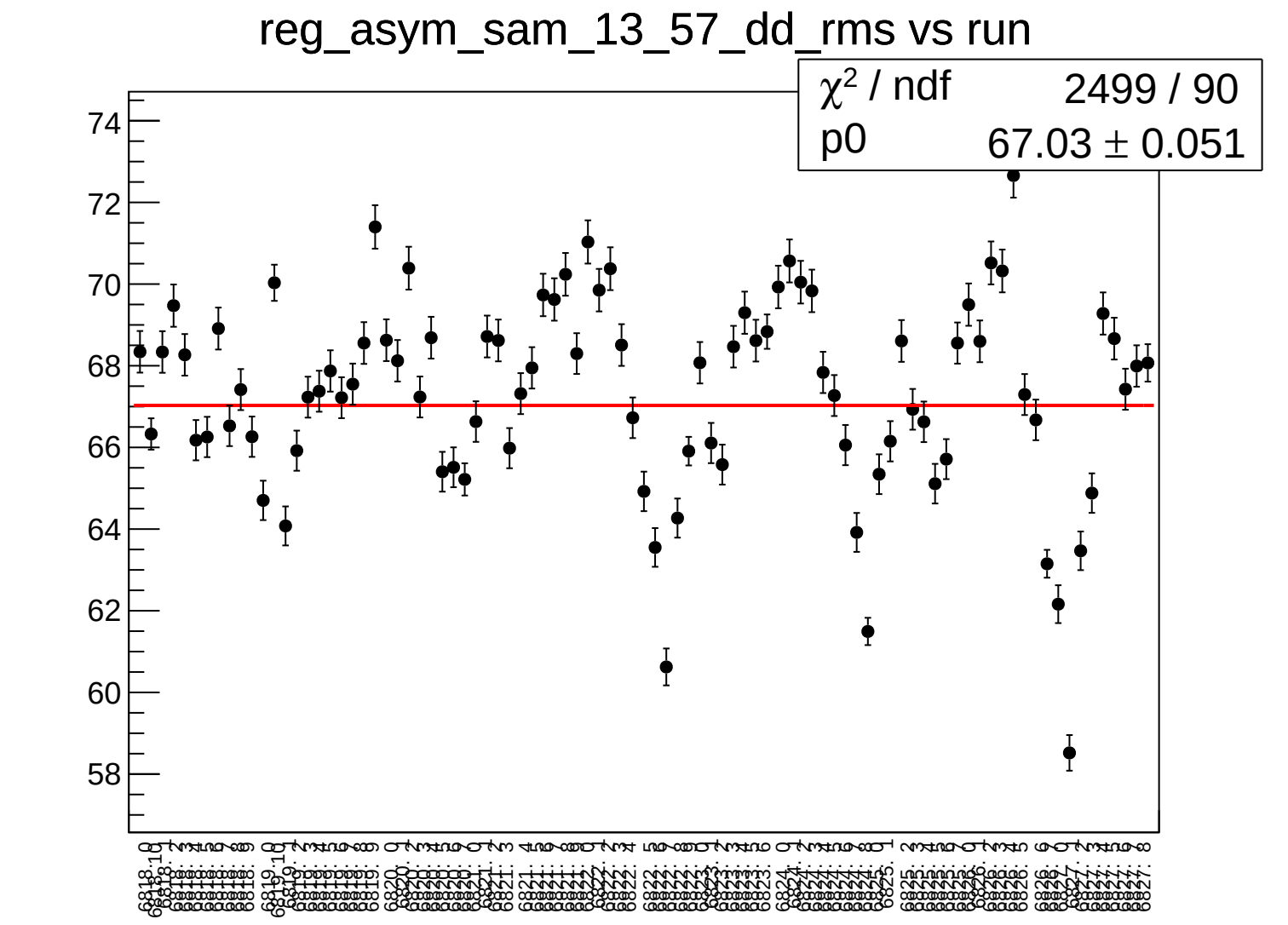

asym_sam_48_dd_mean vs run
χ² / ndf 77.87 / 90
p0 −504.9 ± 942.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −99.54
Std Dev 134.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

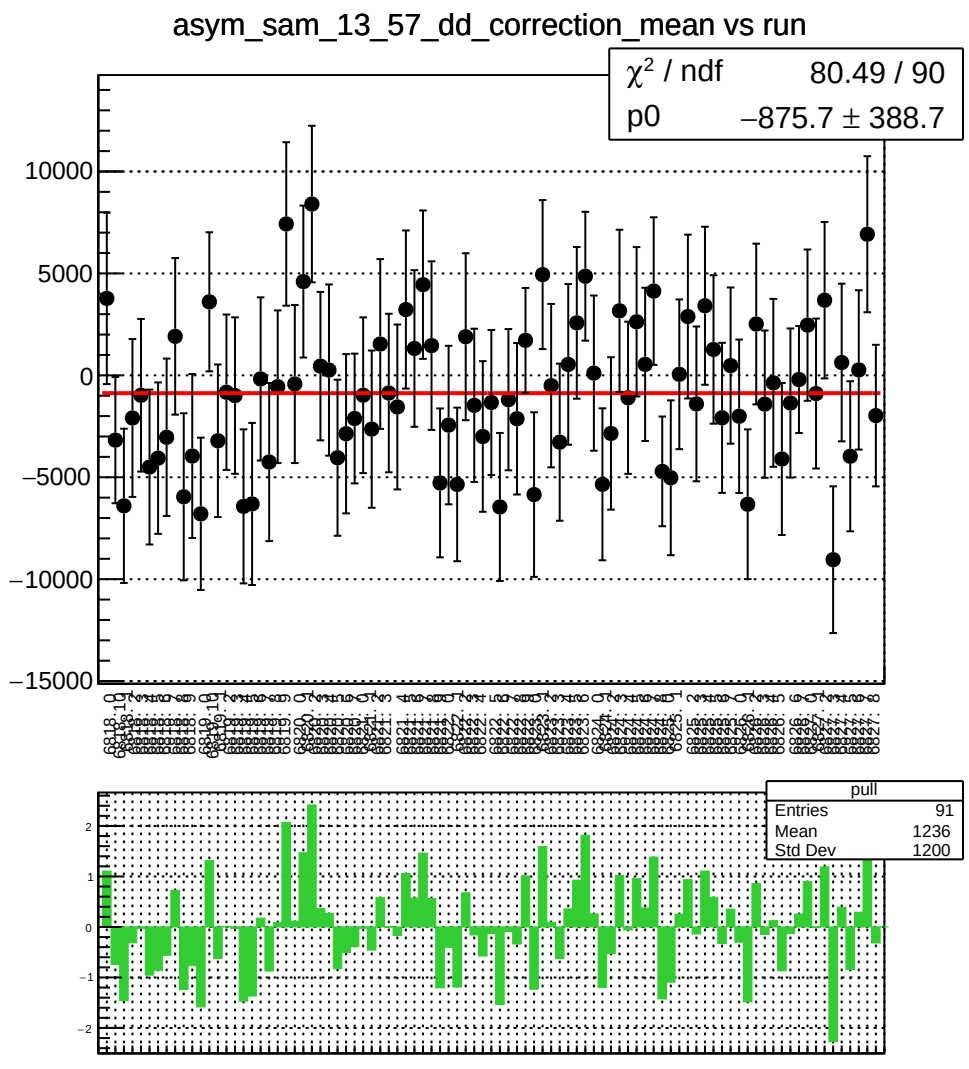

pull1D
Entries 91
Mean 0.004503
Std Dev 0.925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

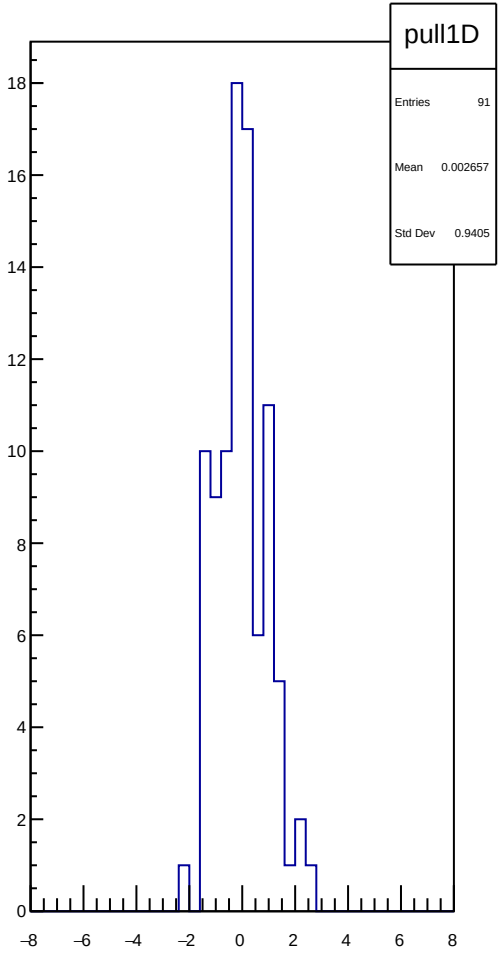

asym_sam_48_dd_rms vs run
χ² / ndf 2313 / 90
p0 875.6 ± 0.6662
1050
1000
950
900
850
800

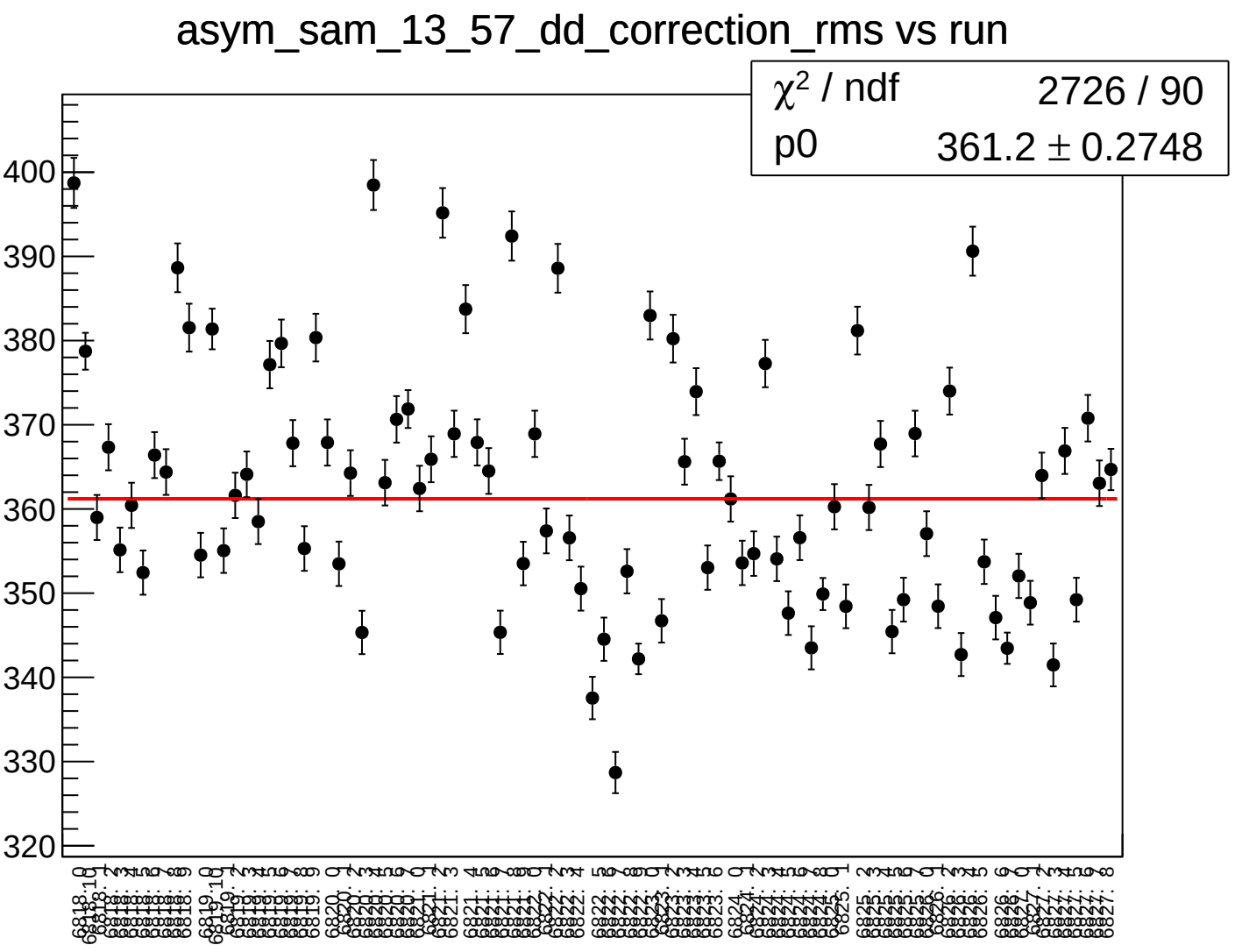

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 96.68 / 90
p0 157.5 ± 72.13
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 169.1
Std Dev 128.2
2
1
0
−1
−2

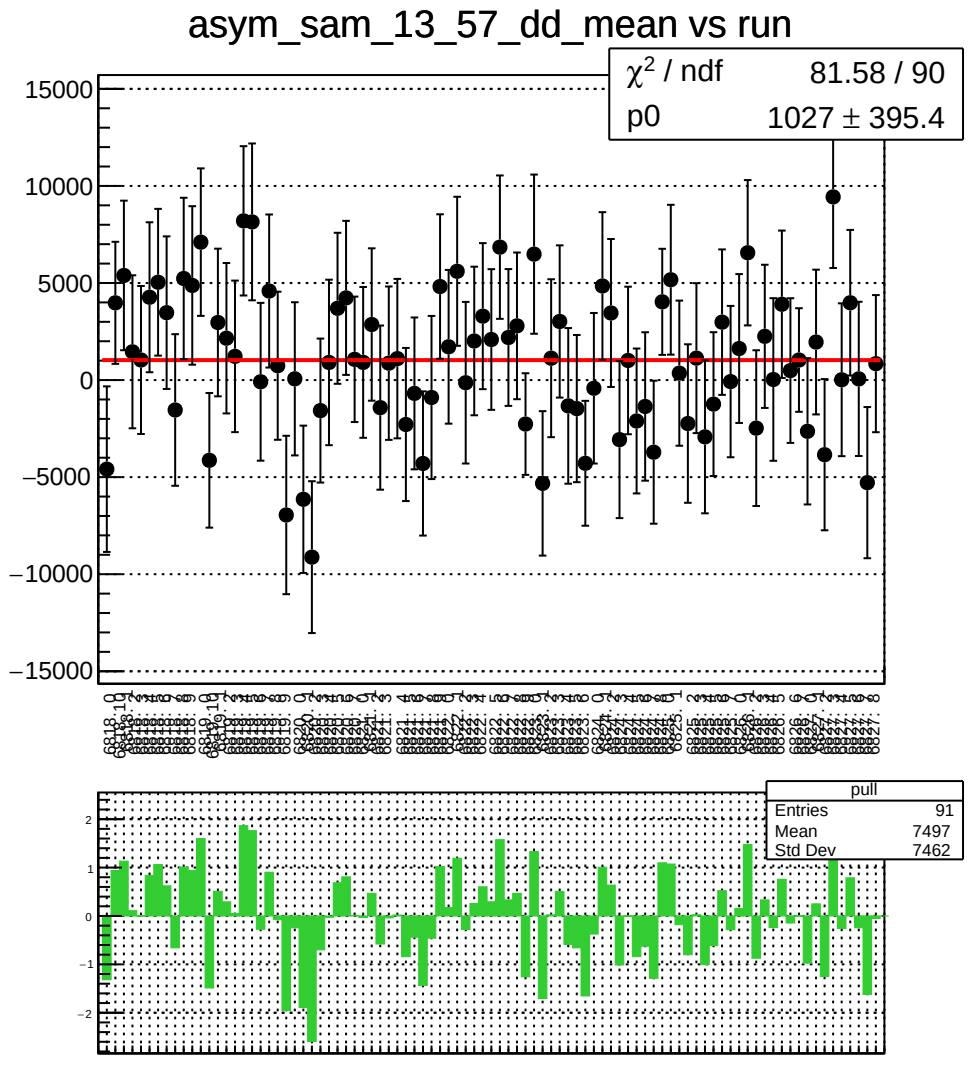

pull1D
Entries 91
Mean 0.008467
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

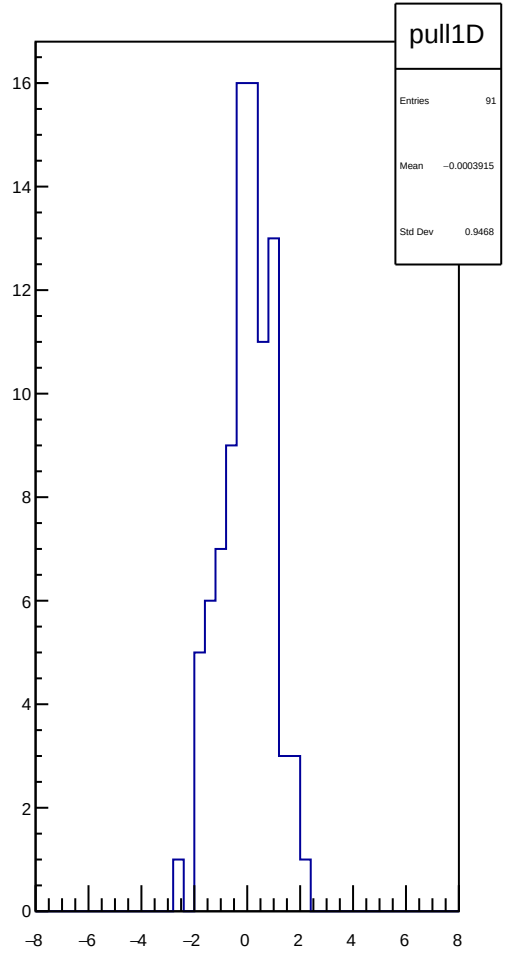

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2499 / 90
p0 67.03 ± 0.051
74
72
70
68
66
64
62
60
58

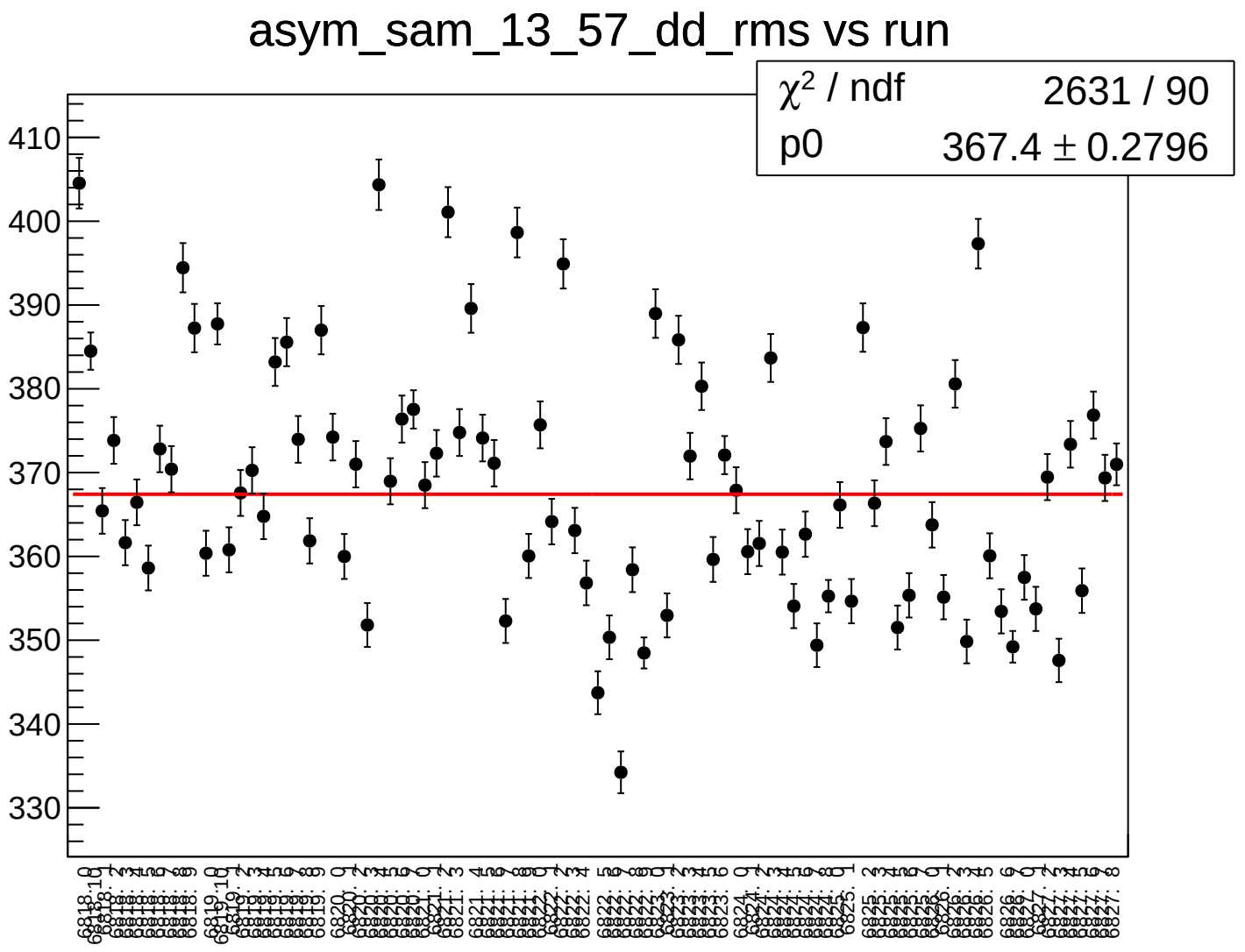

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 80.49 / 90
p0 −875.7 ± 388.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 1236
Std Dev 1200
2
1
0
−1
−2

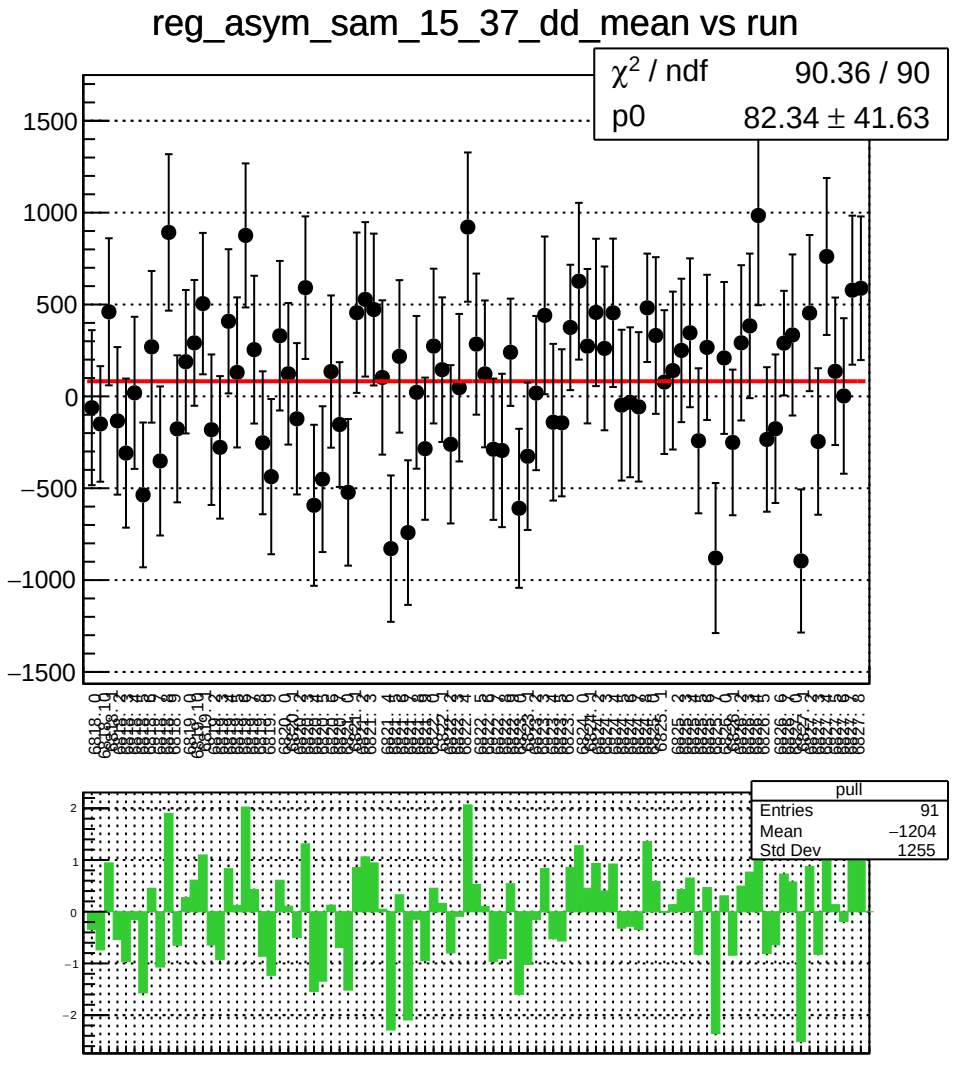

pull1D
Entries 91
Mean 0.002657
Std Dev 0.9405
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

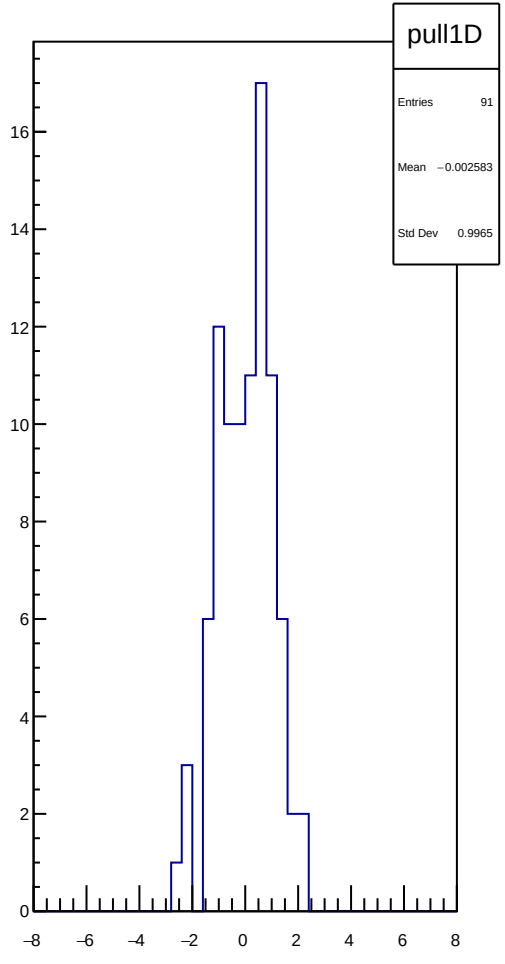

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2726 / 90
p0 361.2 ± 0.2748
400
390
380
370
360
350
340
330
320

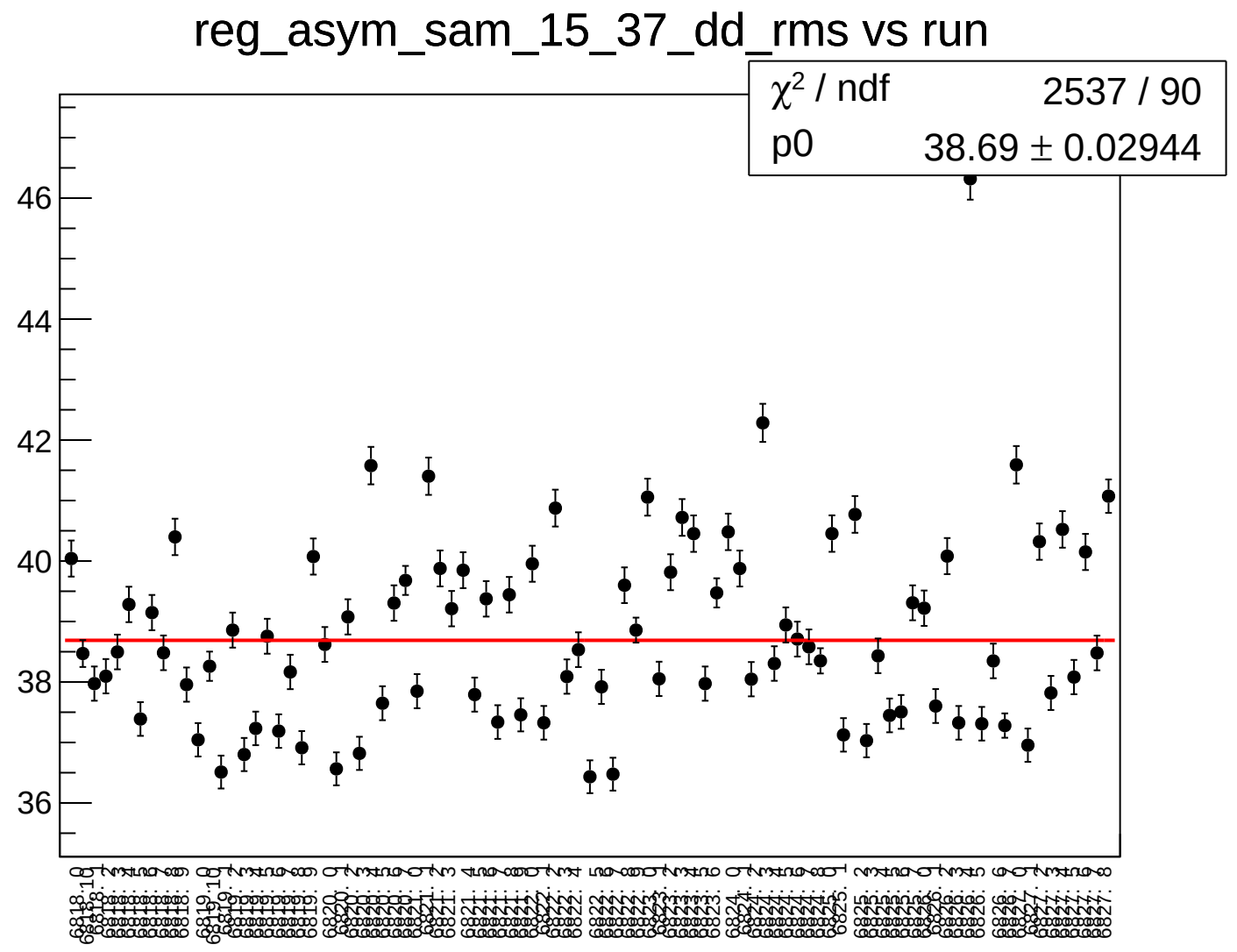

asym_sam_13_57_dd_mean vs run
χ² / ndf 81.58 / 90
p0 1027 ± 395.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 7497
Std Dev 7462
2
1
0
−1
−2

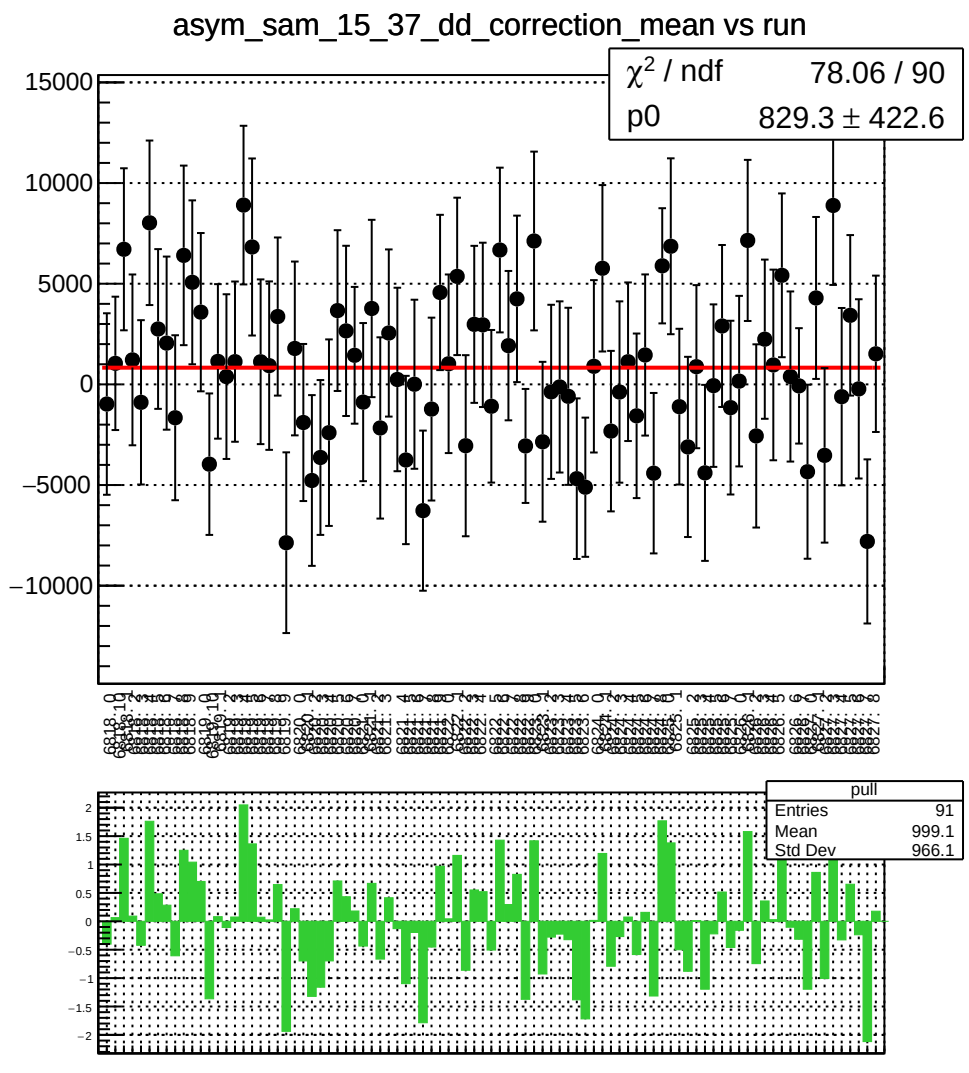

pull1D
Entries 91
Mean −0.0003915
Std Dev 0.9468
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

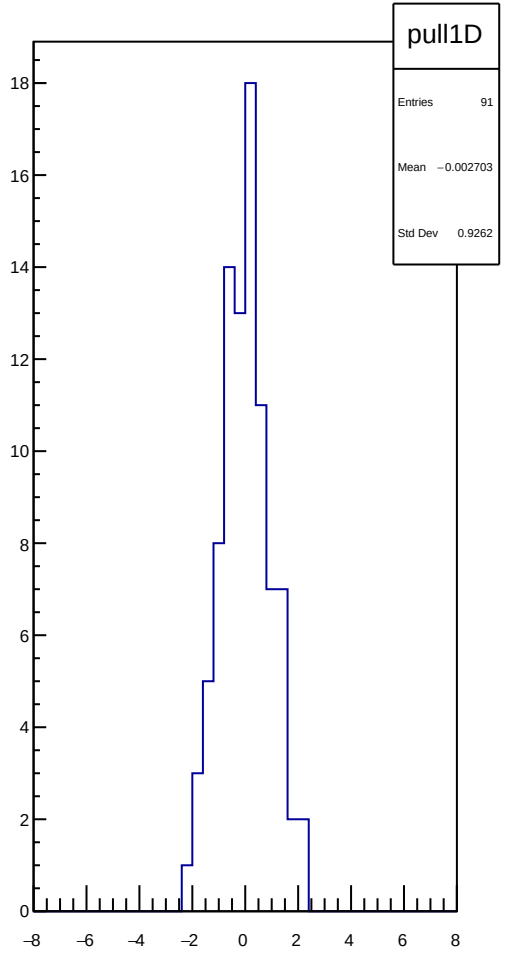

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 2631 / 90
p0 367.4 ± 0.2796
410
400
390
380
370
360
350
340
330

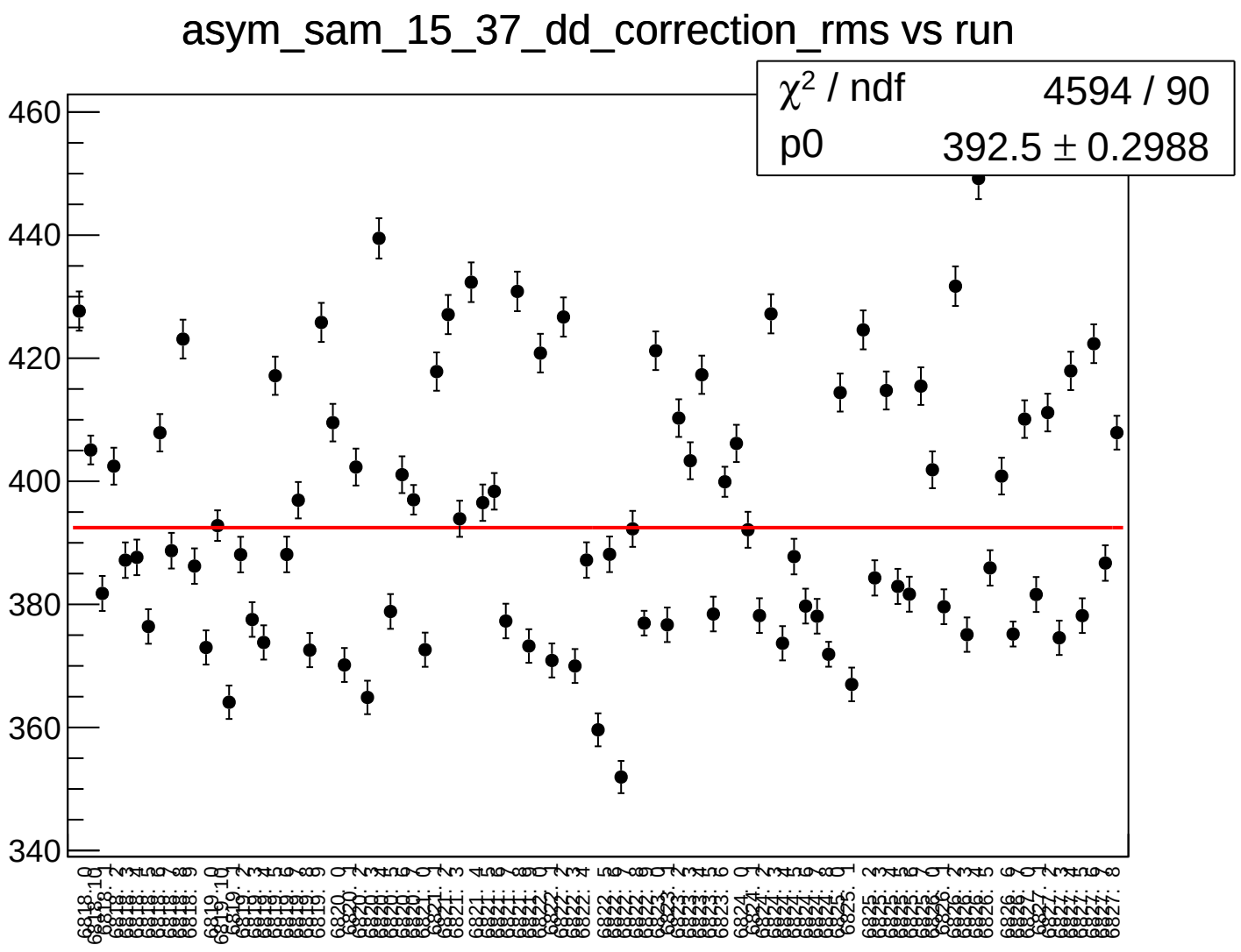

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.36 / 90
p0 82.34 ± 41.63
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −1204
Std Dev 1255
2
1
0
−1
−2

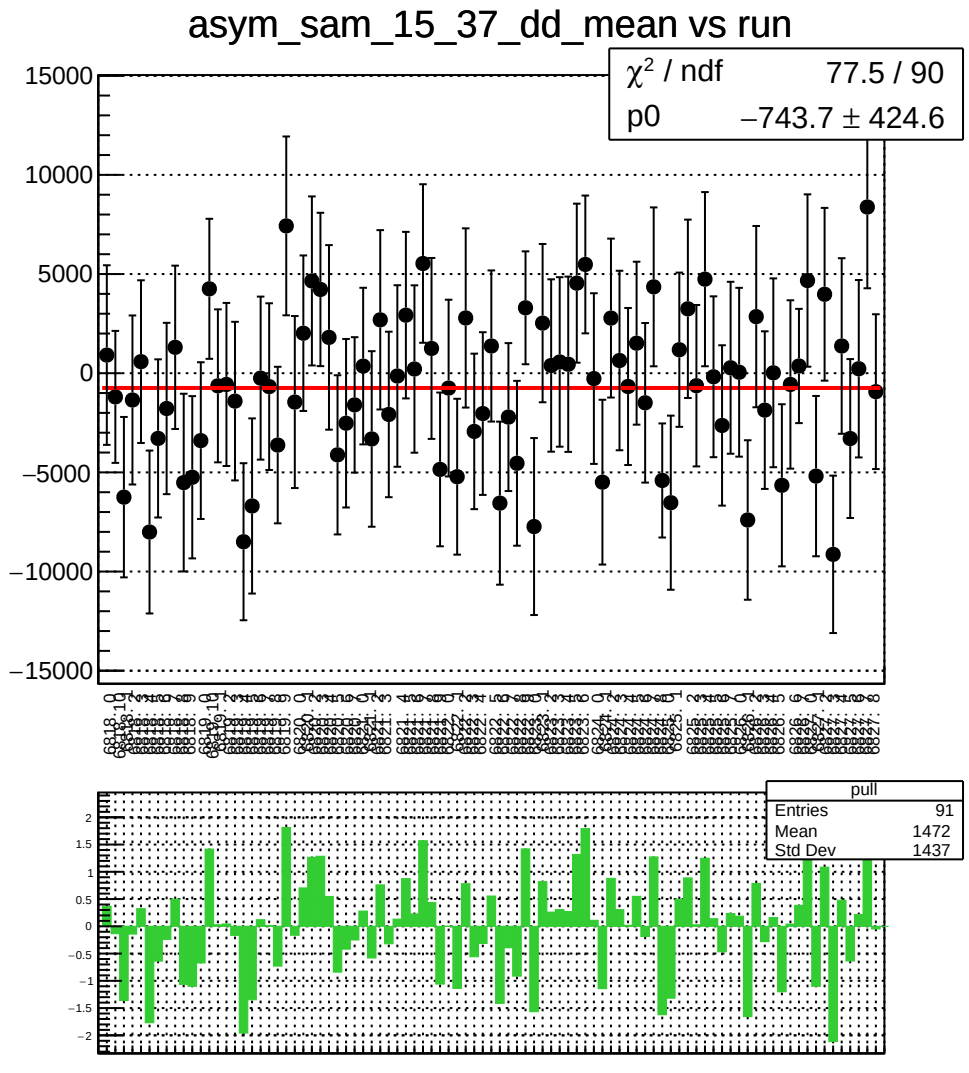

pull1D
Entries 91
Mean −0.002583
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

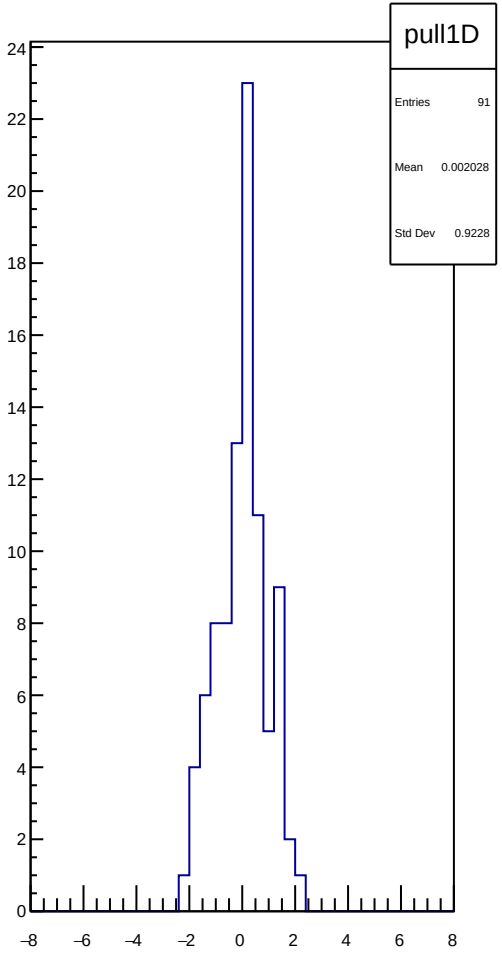

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2537 / 90
p0 38.69 ± 0.02944
46
44
42
40
38
36

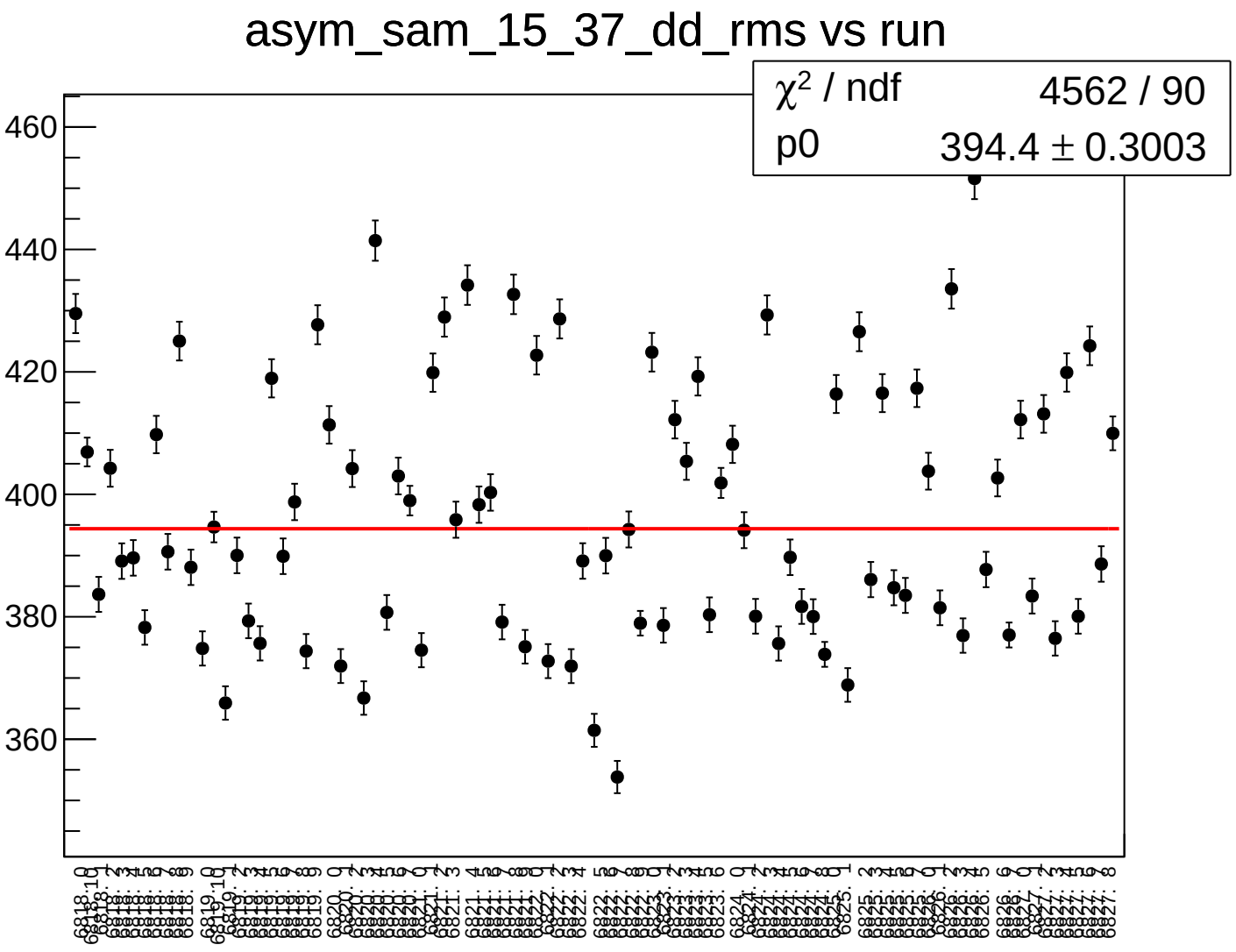

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 78.06 / 90
p0 829.3 ± 422.6
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 999.1
Std Dev 966.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

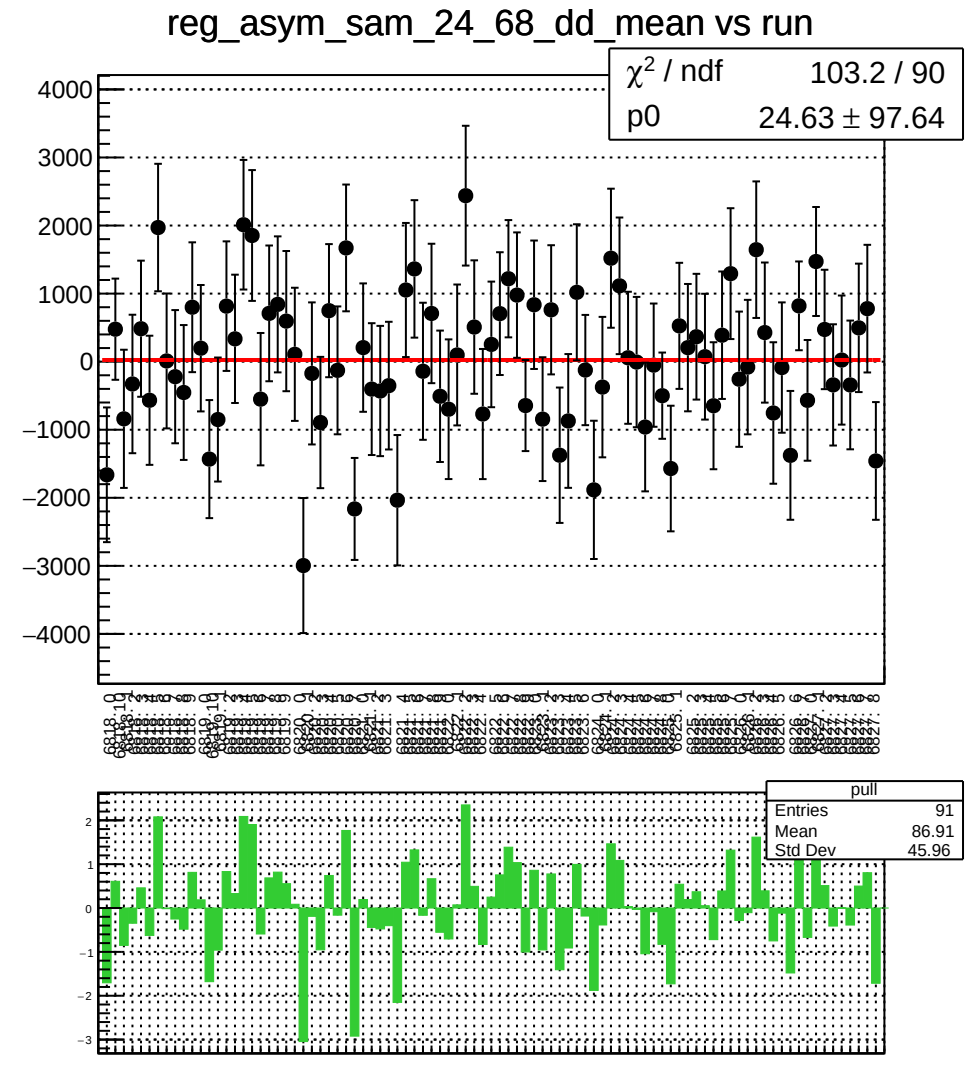

pull1D
Entries 91
Mean −0.002703
Std Dev 0.9262
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

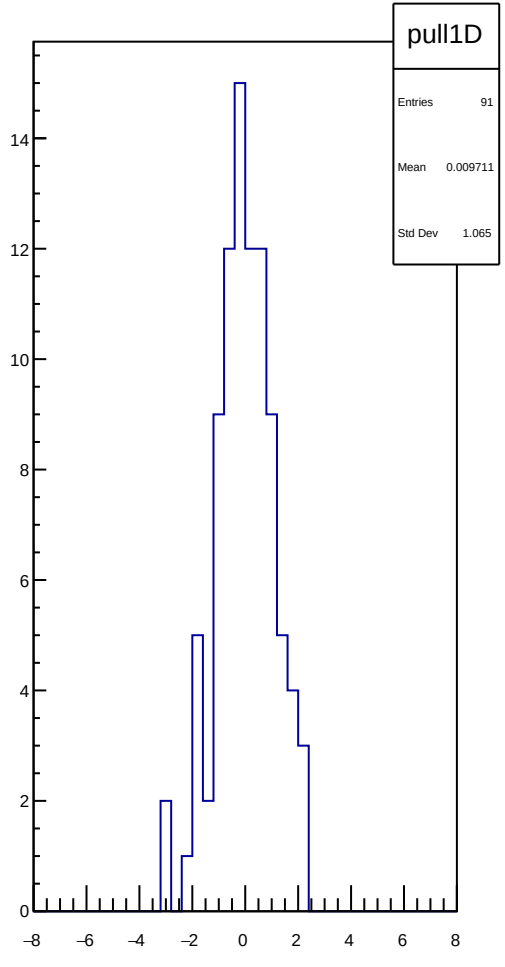

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 4594 / 90
p0 392.5 ± 0.2988
460
440
420
400
380
360
340

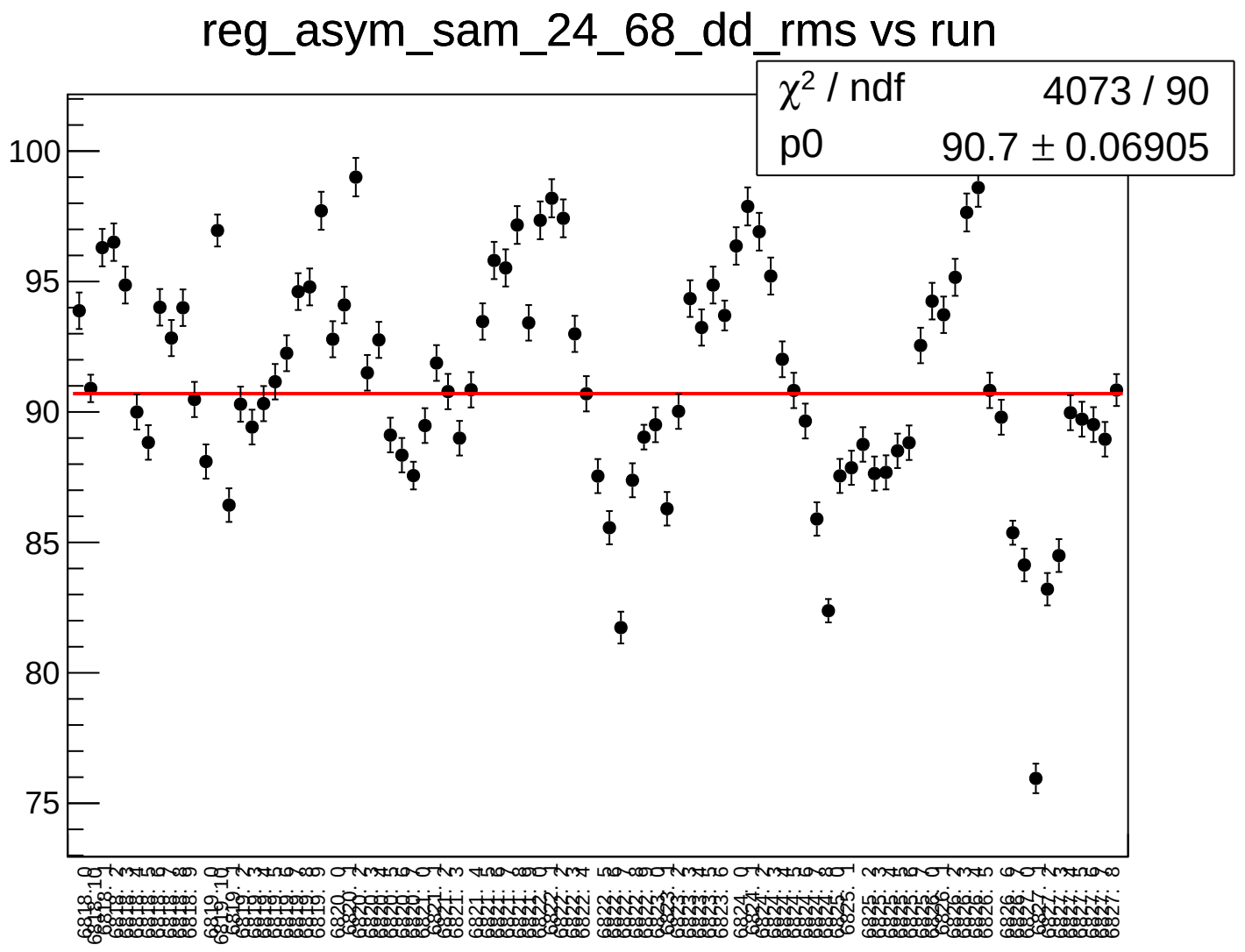

asym_sam_15_37_dd_mean vs run
χ² / ndf 77.5 / 90
p0 −743.7 ± 424.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 1472
Std Dev 1437
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

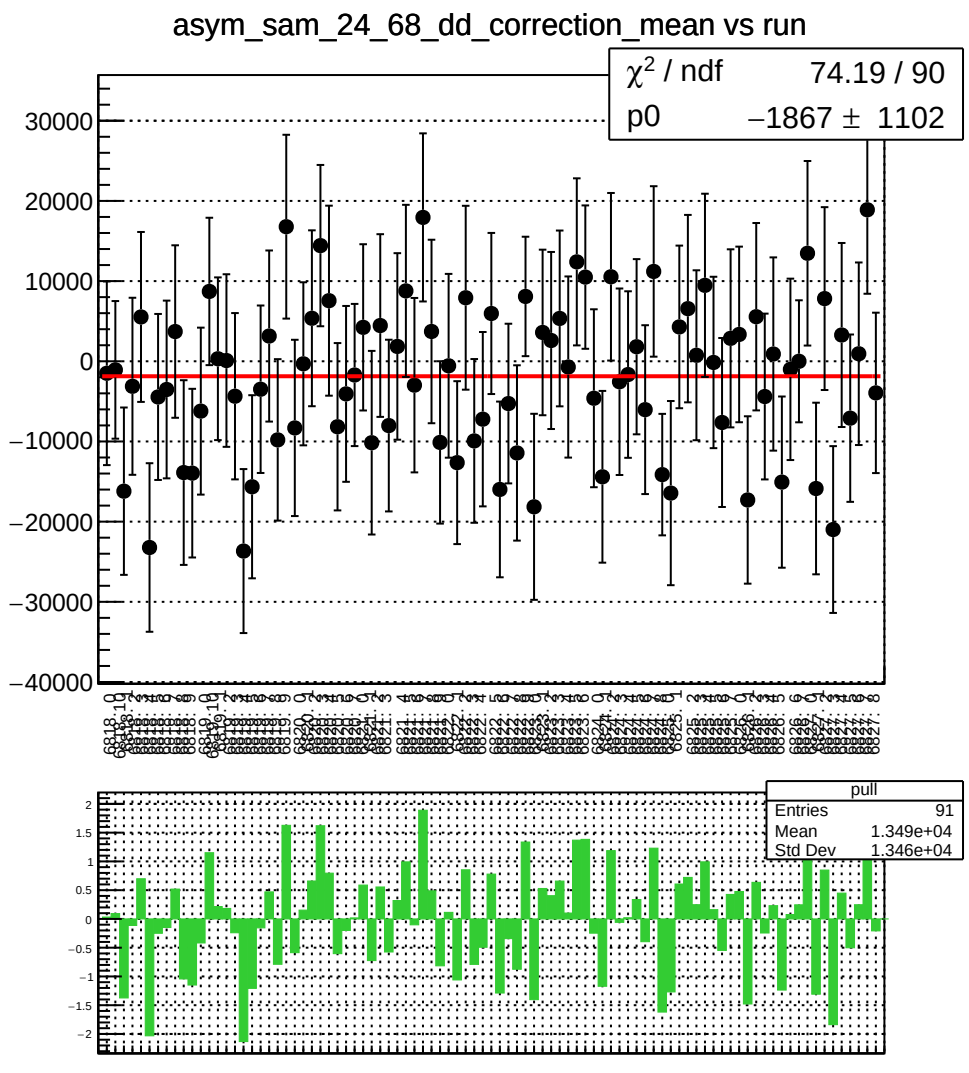

pull1D
Entries 91
Mean 0.002028
Std Dev 0.9228
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

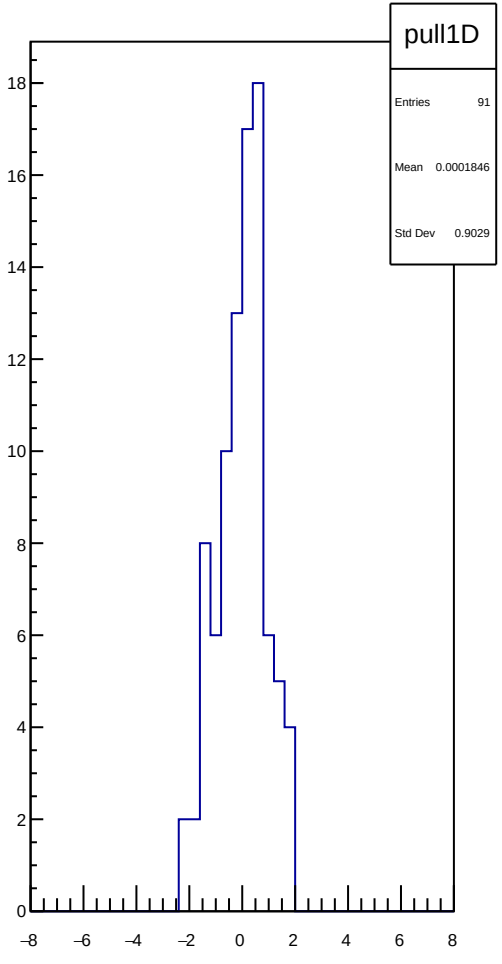

asym_sam_15_37_dd_rms vs run
χ² / ndf 4562 / 90
p0 394.4 ± 0.3003
460
440
420
400
380
360

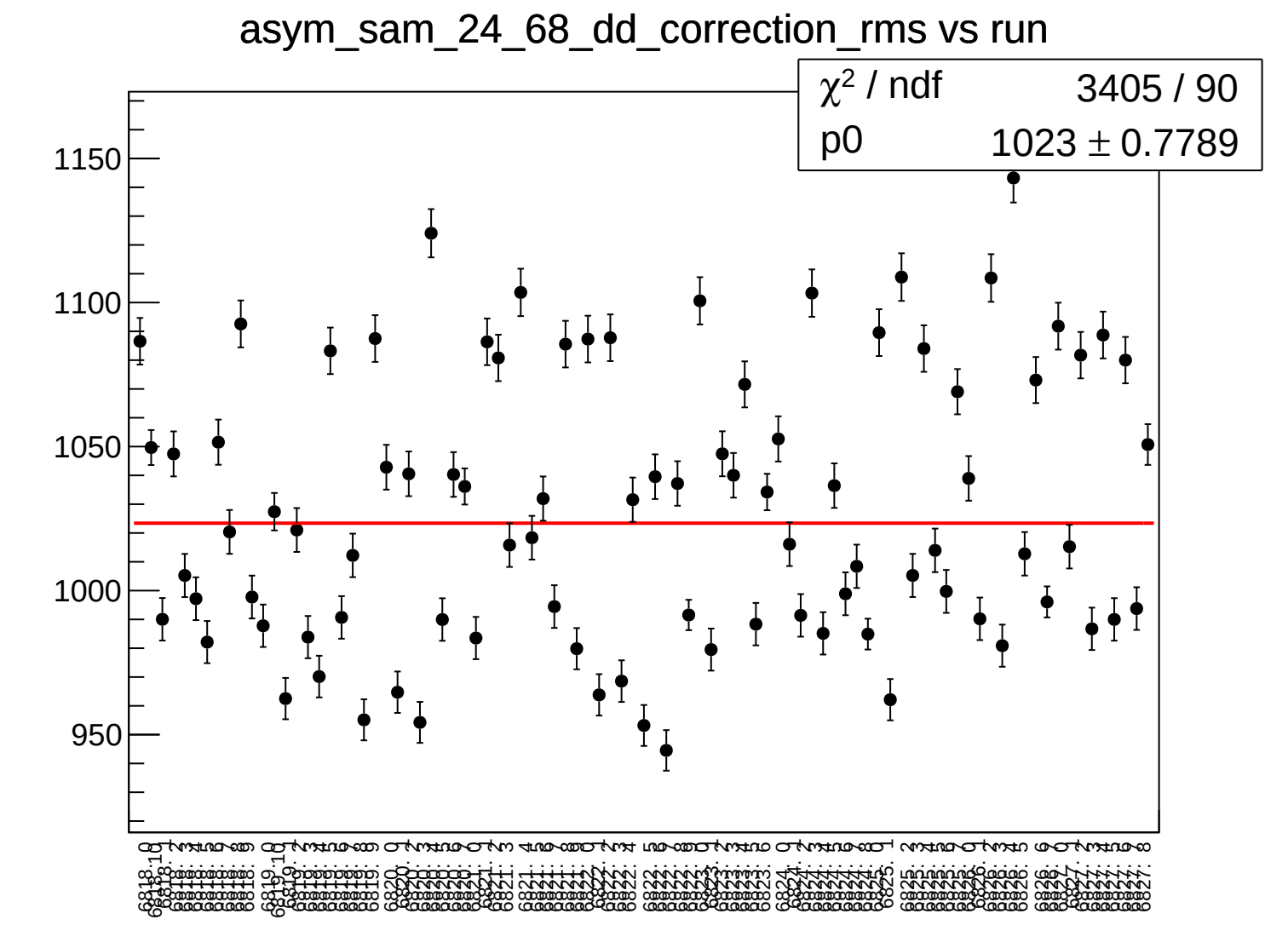

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 103.2 / 90
p0 24.63 ± 97.64
pull
Entries 91
Mean 86.91
Std Dev 45.96

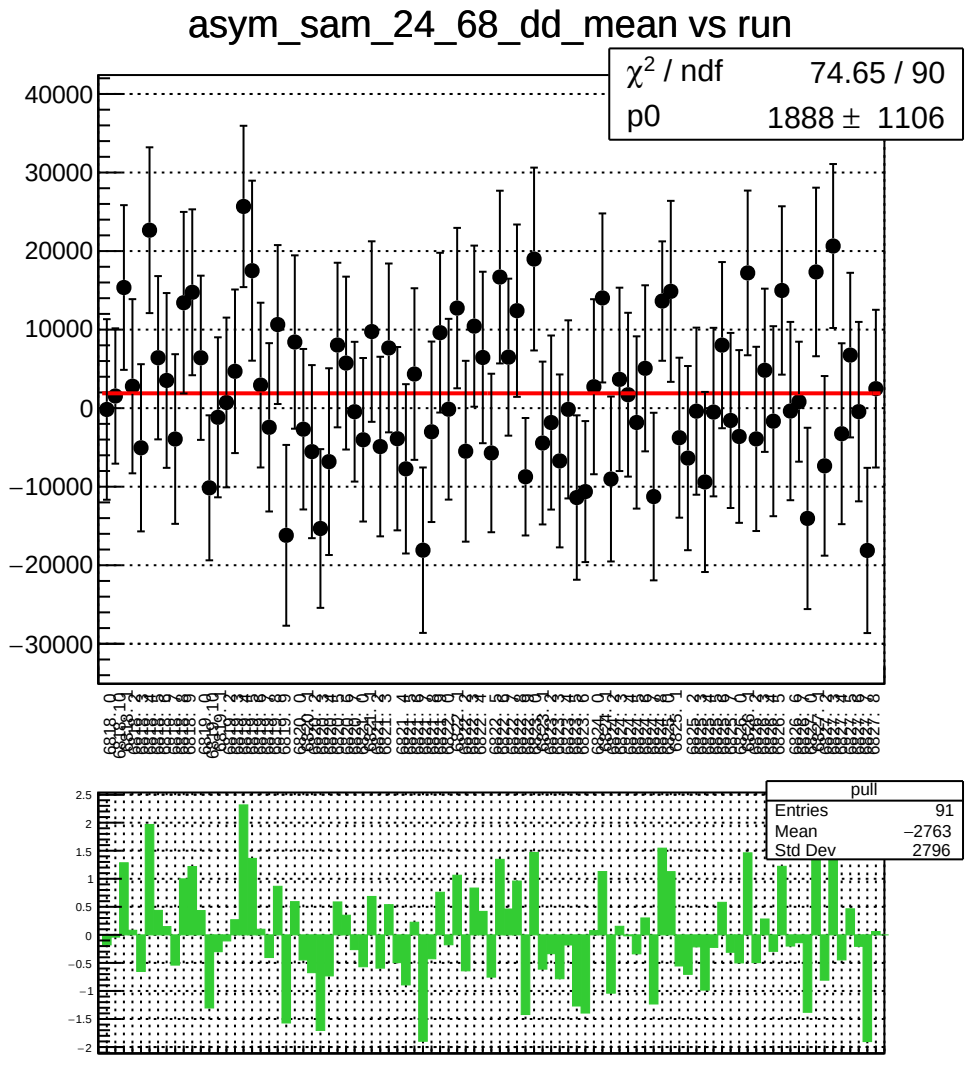

pull1D
Entries 91
Mean 0.009711
Std Dev 1.065

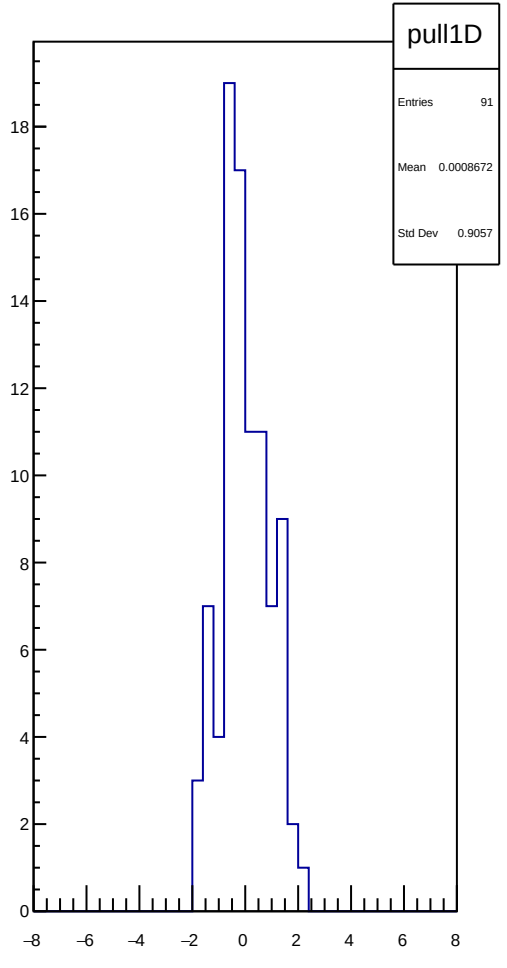

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 4073 / 90
p0 90.7 ± 0.06905
100
95
90
85
80
75

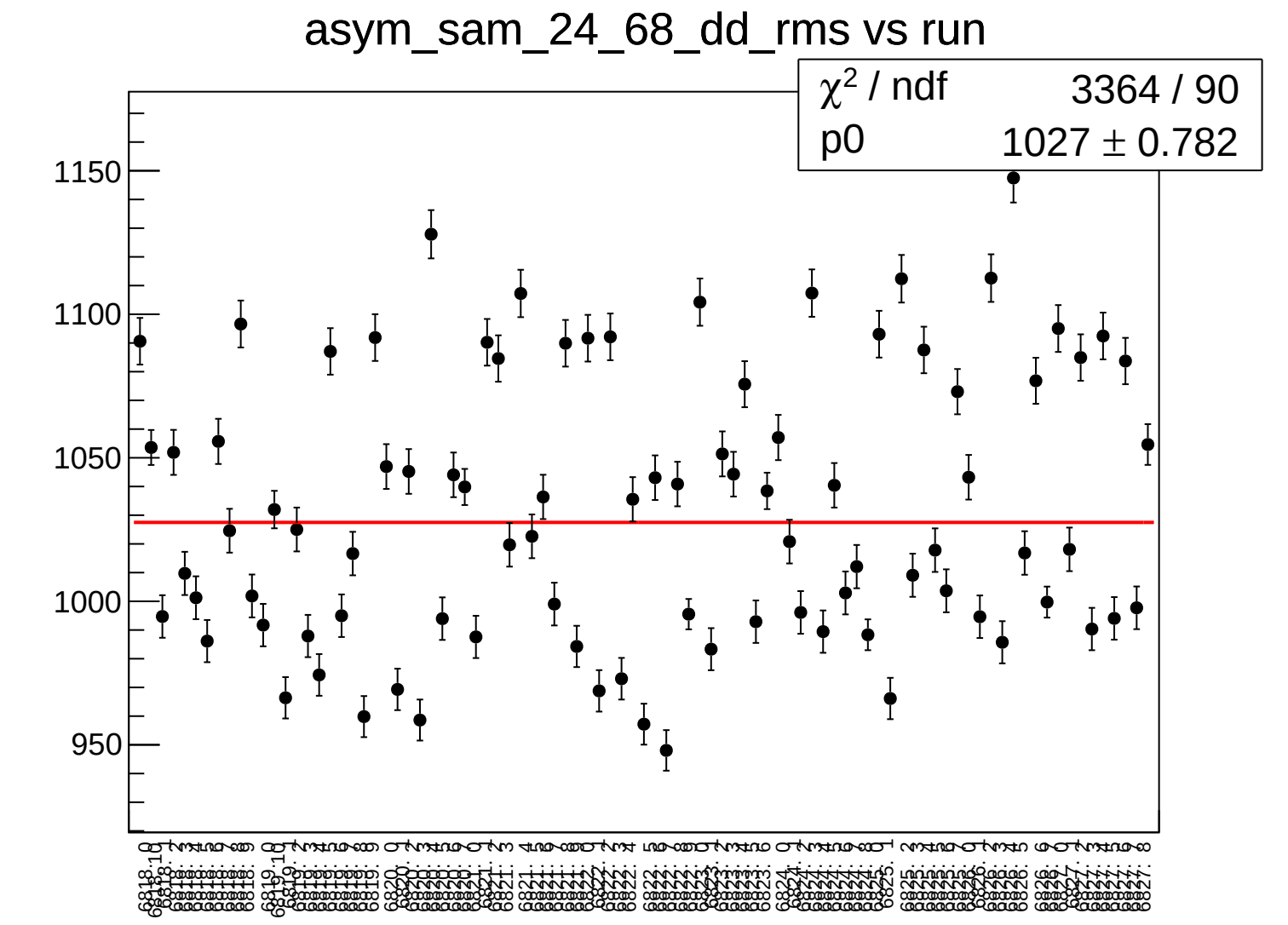

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 74.19 / 90
p0 −1867 ± 1102
pull
Entries 91
Mean 1.349e+04
Std Dev 1.346e+04

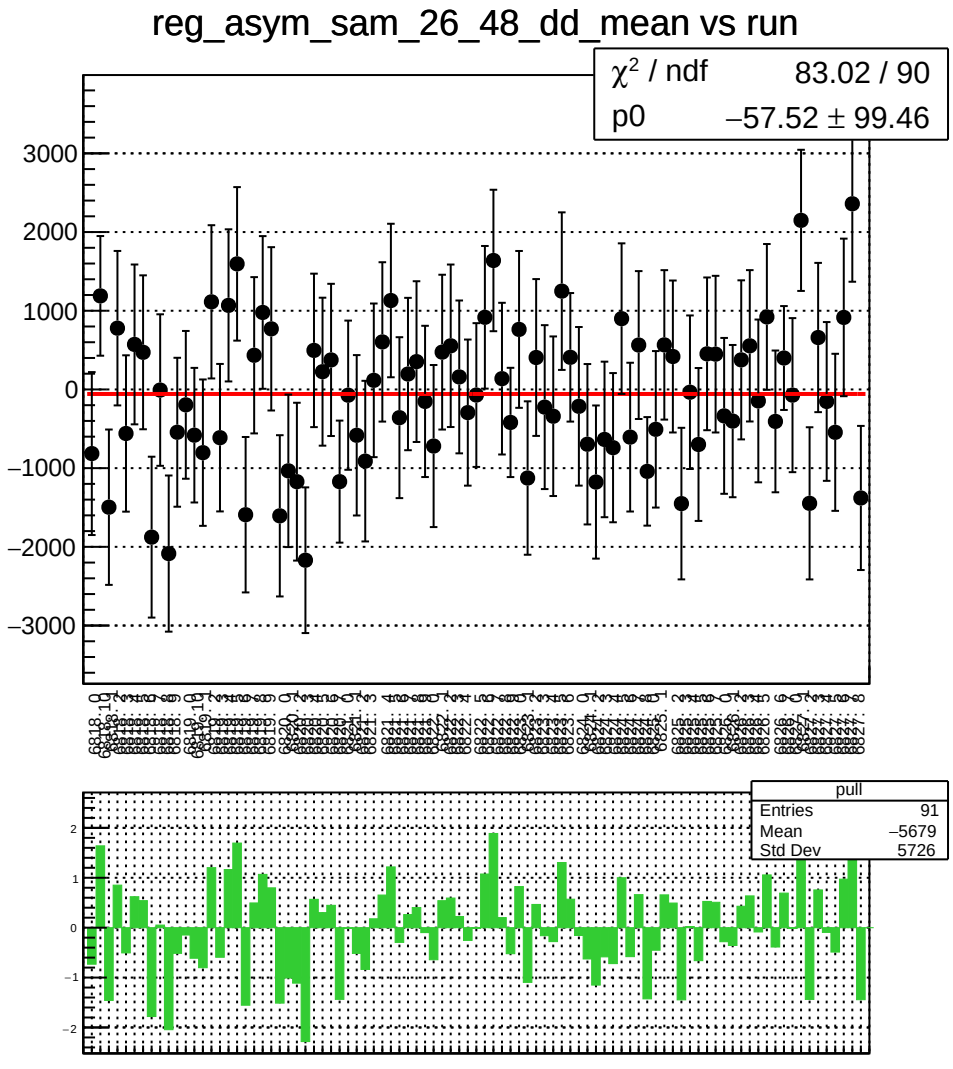

pull1D
Entries 91
Mean 0.0001846
Std Dev 0.9029

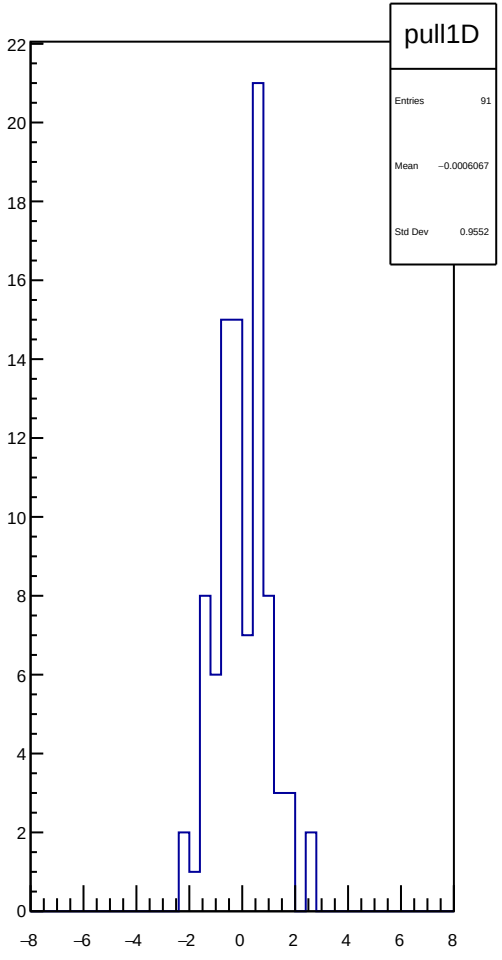

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3405 / 90
p0 1023 ± 0.7789
1150
1100
1050
1000
950

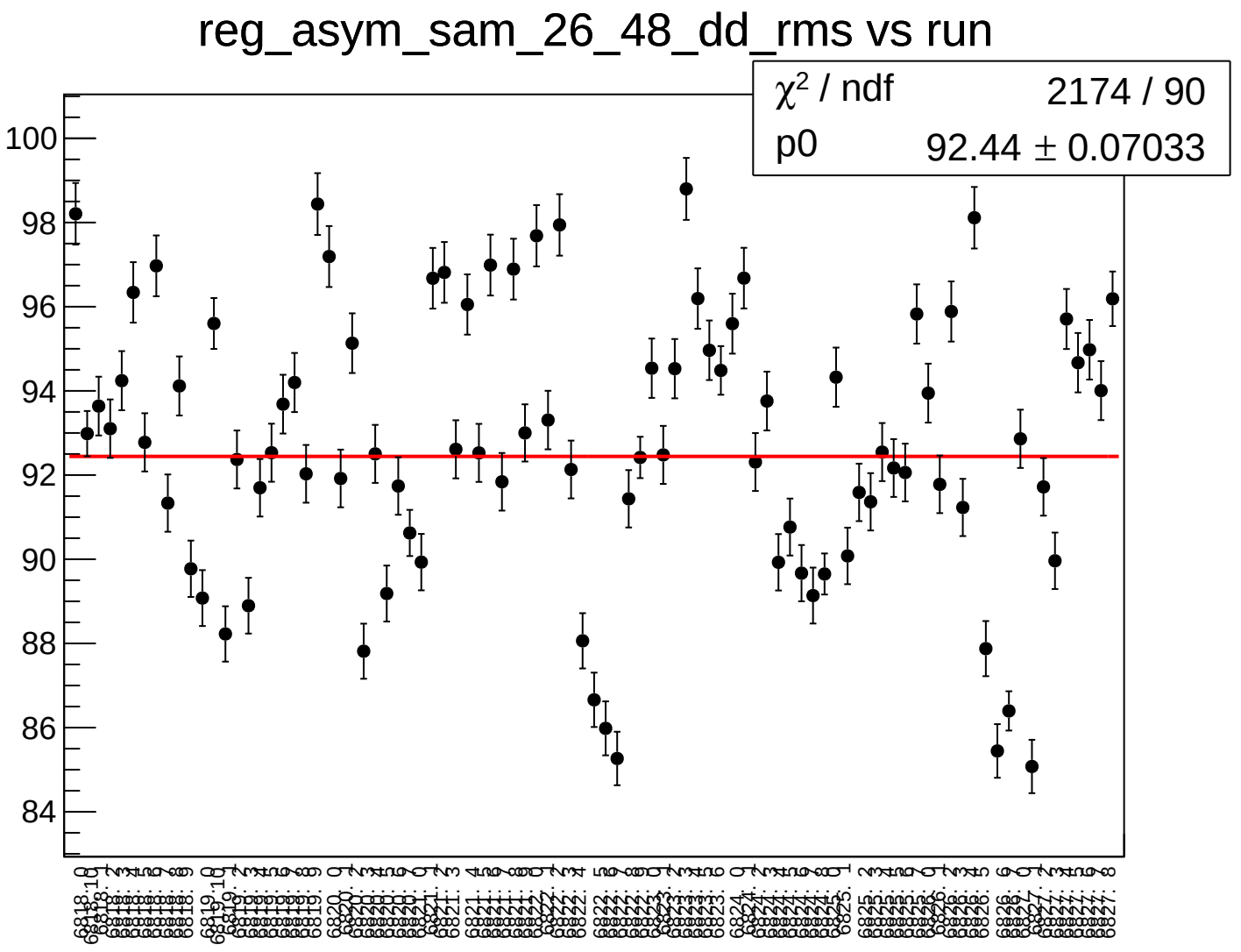

asym_sam_24_68_dd_mean vs run
χ² / ndf 74.65 / 90
p0 1888 ± 1106
pull
Entries 91
Mean −2763
Std Dev 2796

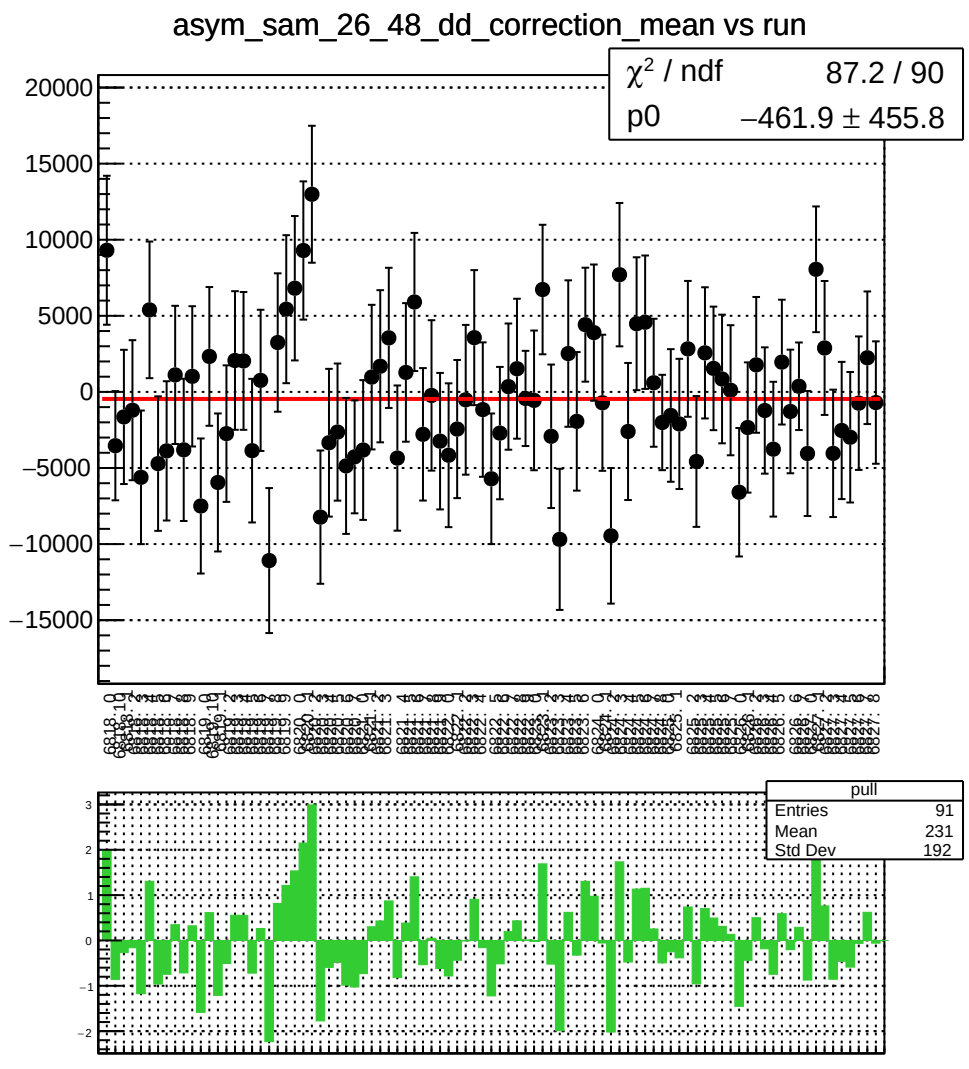

pull1D
Entries 91
Mean 0.0008672
Std Dev 0.9057

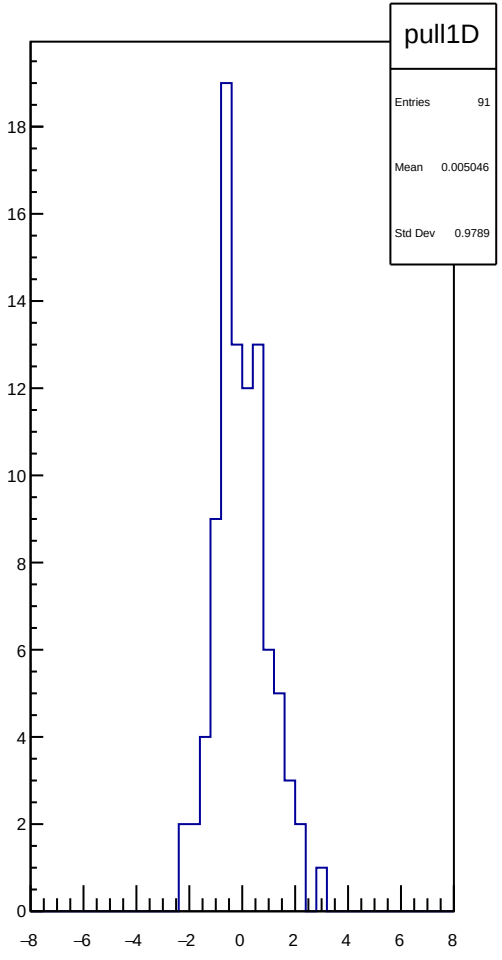

asym_sam_24_68_dd_rms vs run
χ² / ndf 3364 / 90
p0 1027 ± 0.782
1150
1100
1050
1000
950

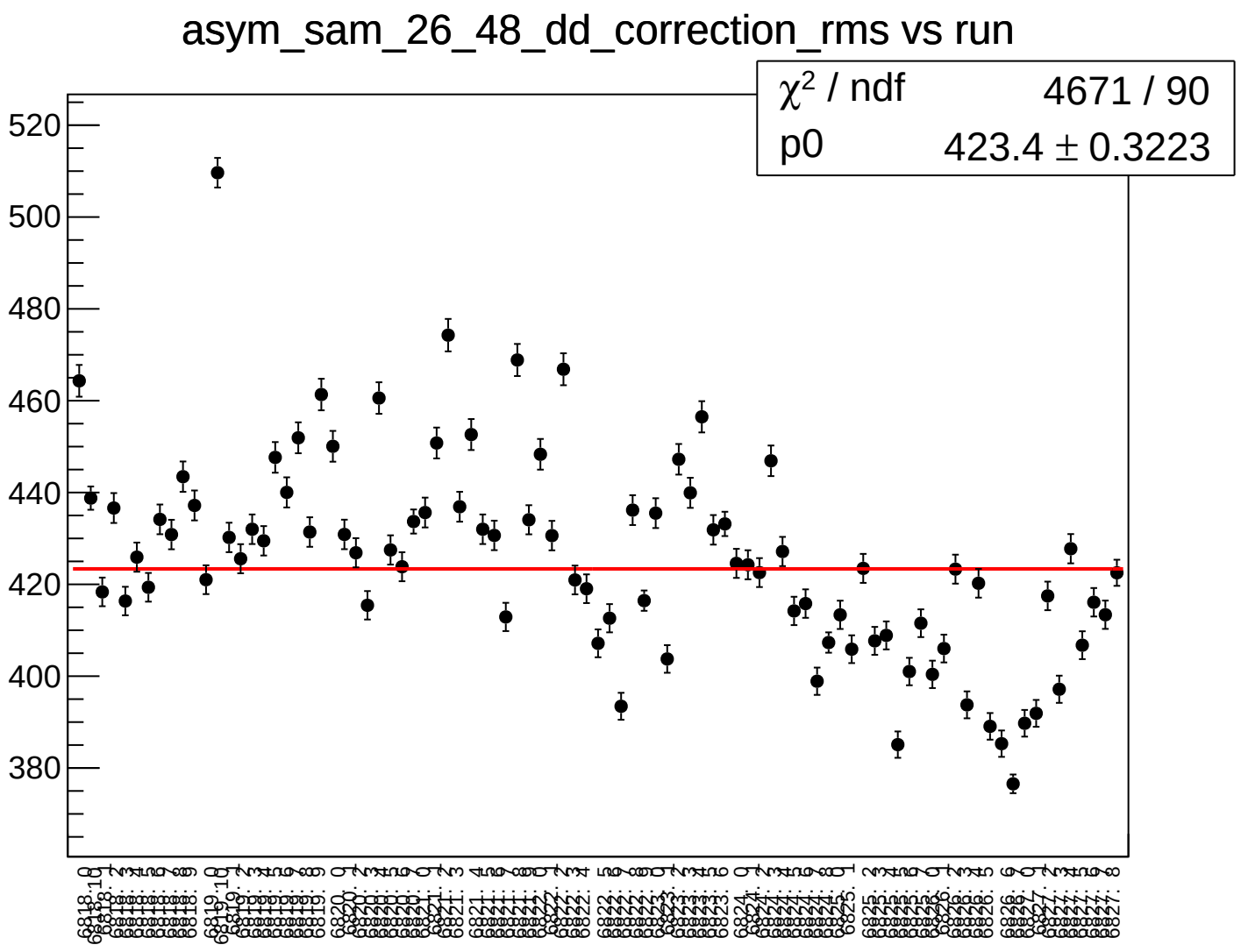

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.02 / 90
p0 −57.52 ± 99.46
pull
Entries 91
Mean −5679
Std Dev 5726

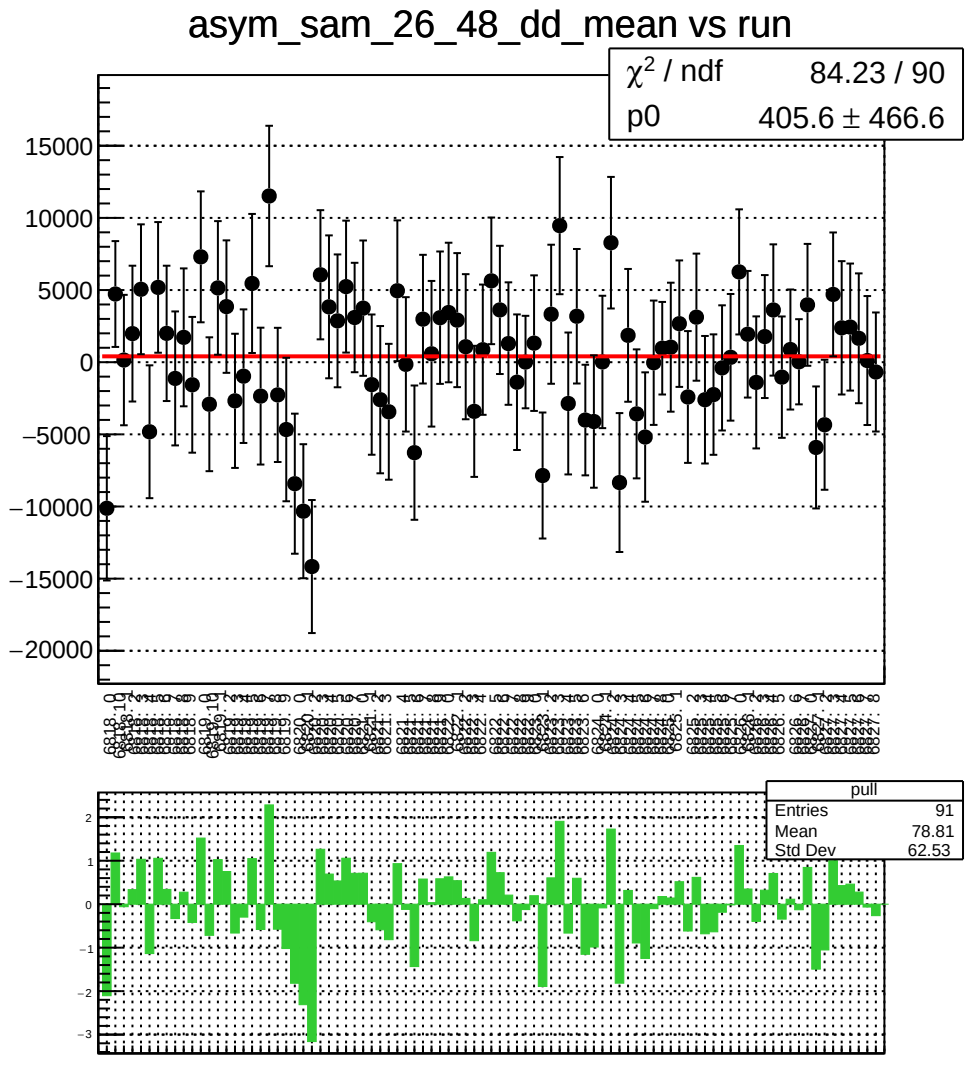

pull1D
Entries 91
Mean −0.0006067
Std Dev 0.9552

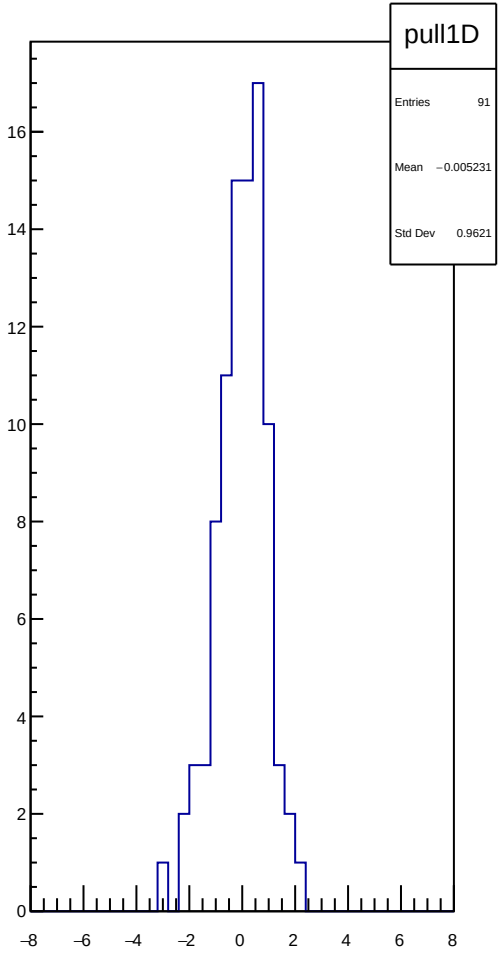

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2174 / 90
p0 92.44 ± 0.07033
100
98
96
94
92
90
88
86
84

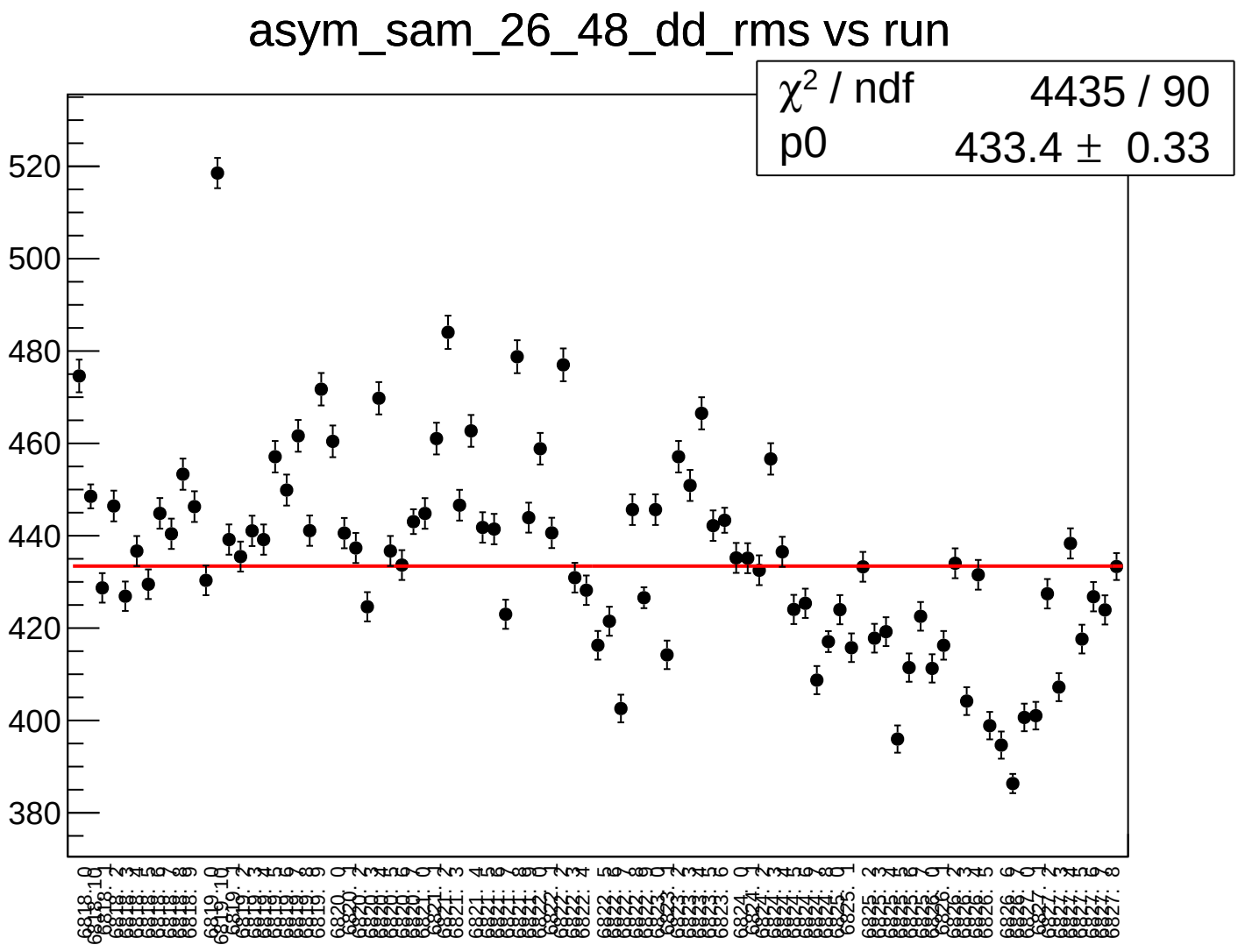

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 87.2 / 90
p0 −461.9 ± 455.8
pull
Entries 91
Mean 231
Std Dev 192

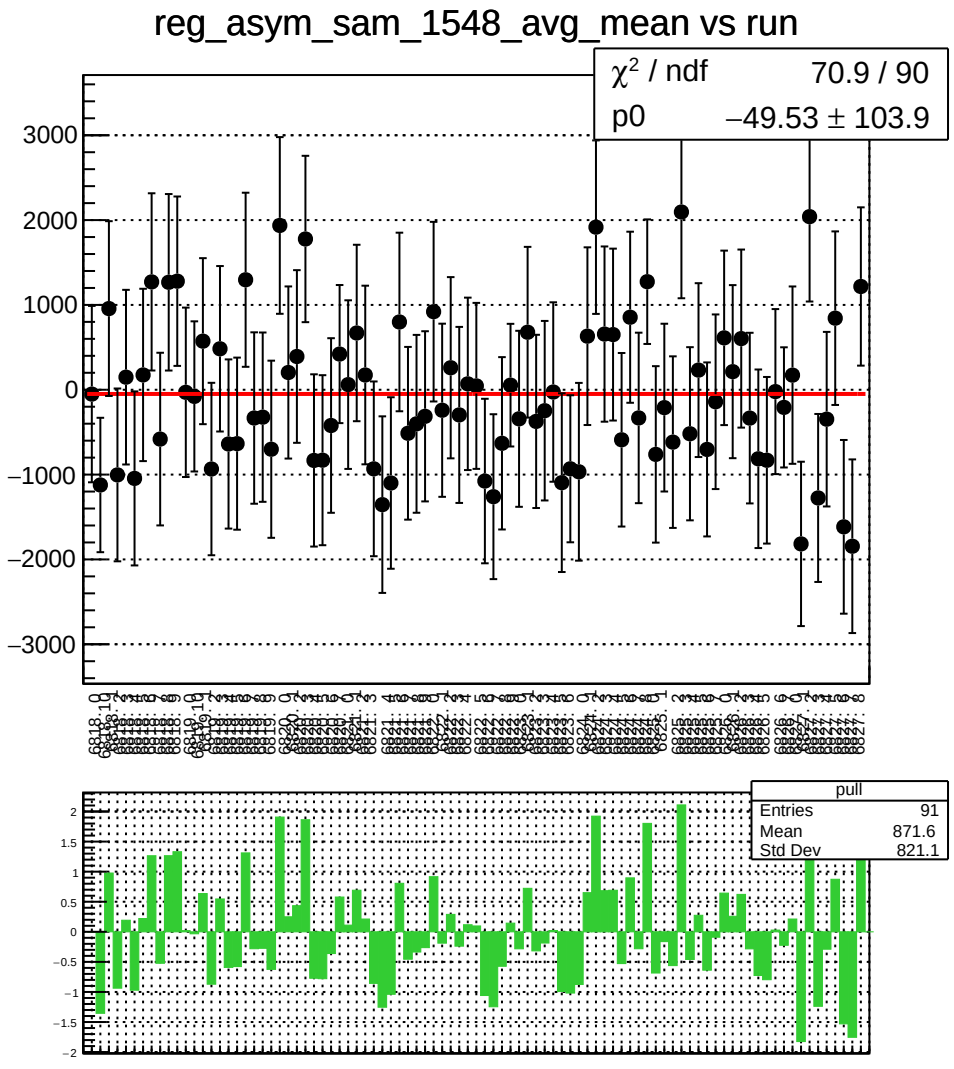

pull1D
Entries 91
Mean 0.005046
Std Dev 0.9789

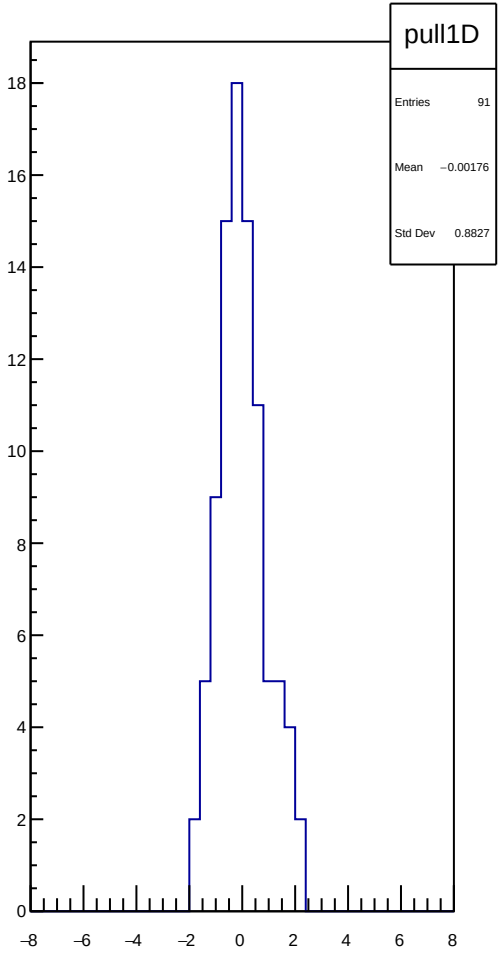

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 4671 / 90
p0 423.4 ± 0.3223
520
500
480
460
440
420
400
380

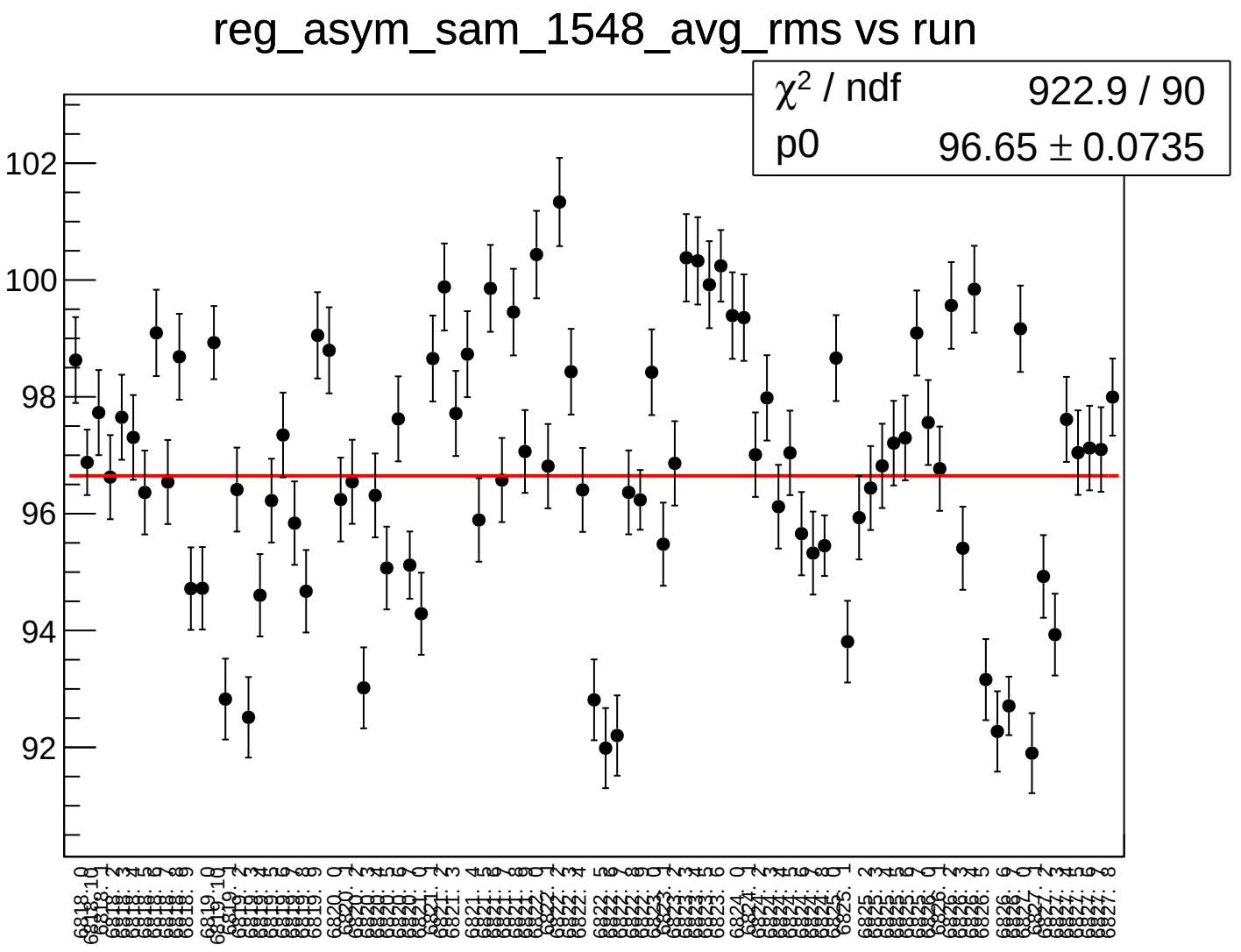

asym_sam_26_48_dd_mean vs run
χ² / ndf 84.23 / 90
p0 405.6 ± 466.6
pull
Entries 91
Mean 78.81
Std Dev 62.53

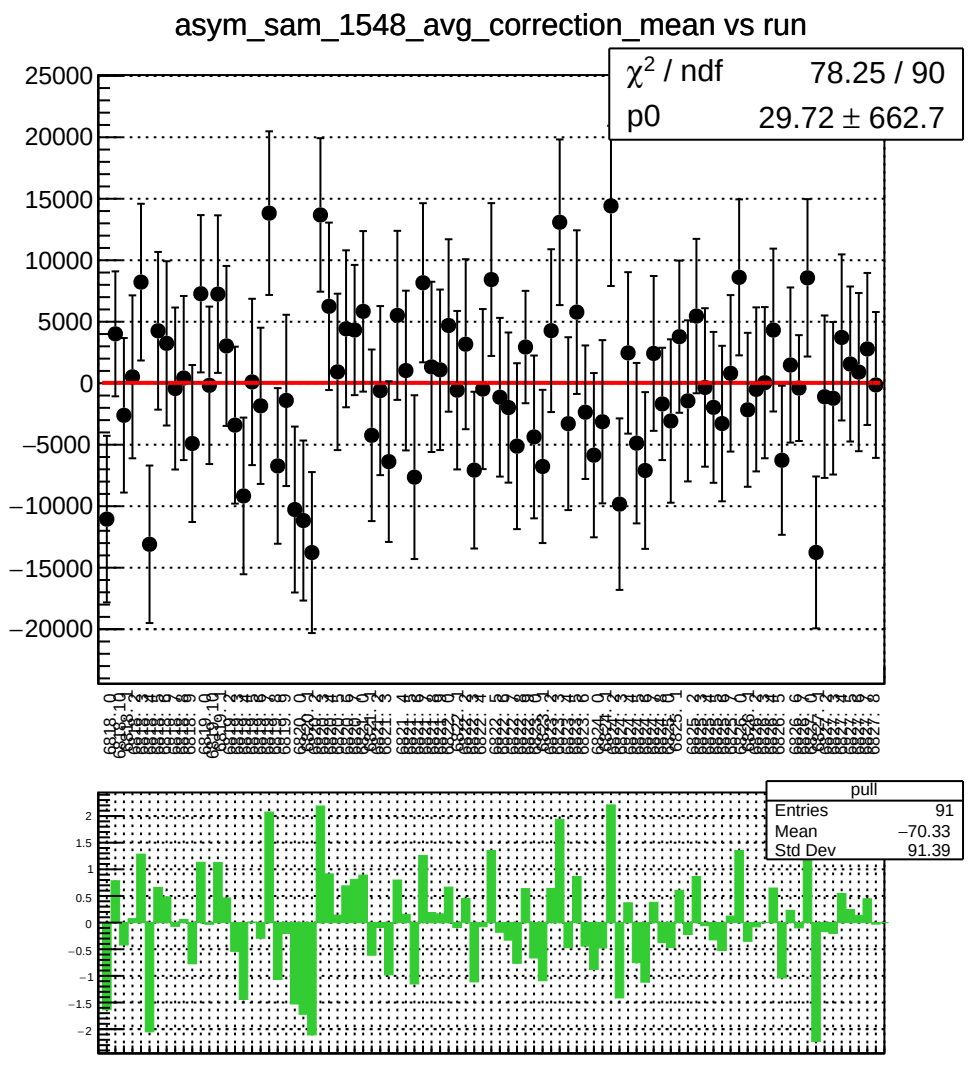

pull1D
Entries 91
Mean −0.005231
Std Dev 0.9621

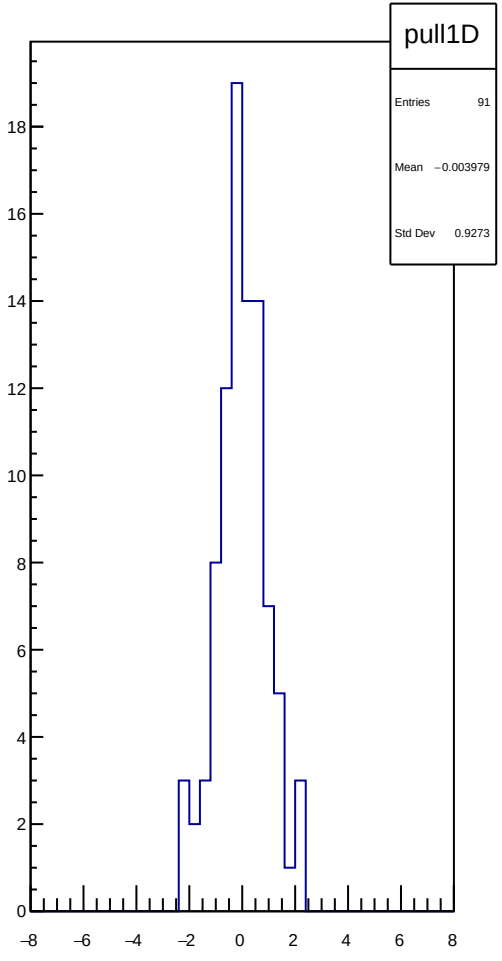

asym_sam_26_48_dd_rms vs run
χ² / ndf 4435 / 90
p0 433.4 ± 0.33
520
500
480
460
440
420
400
380

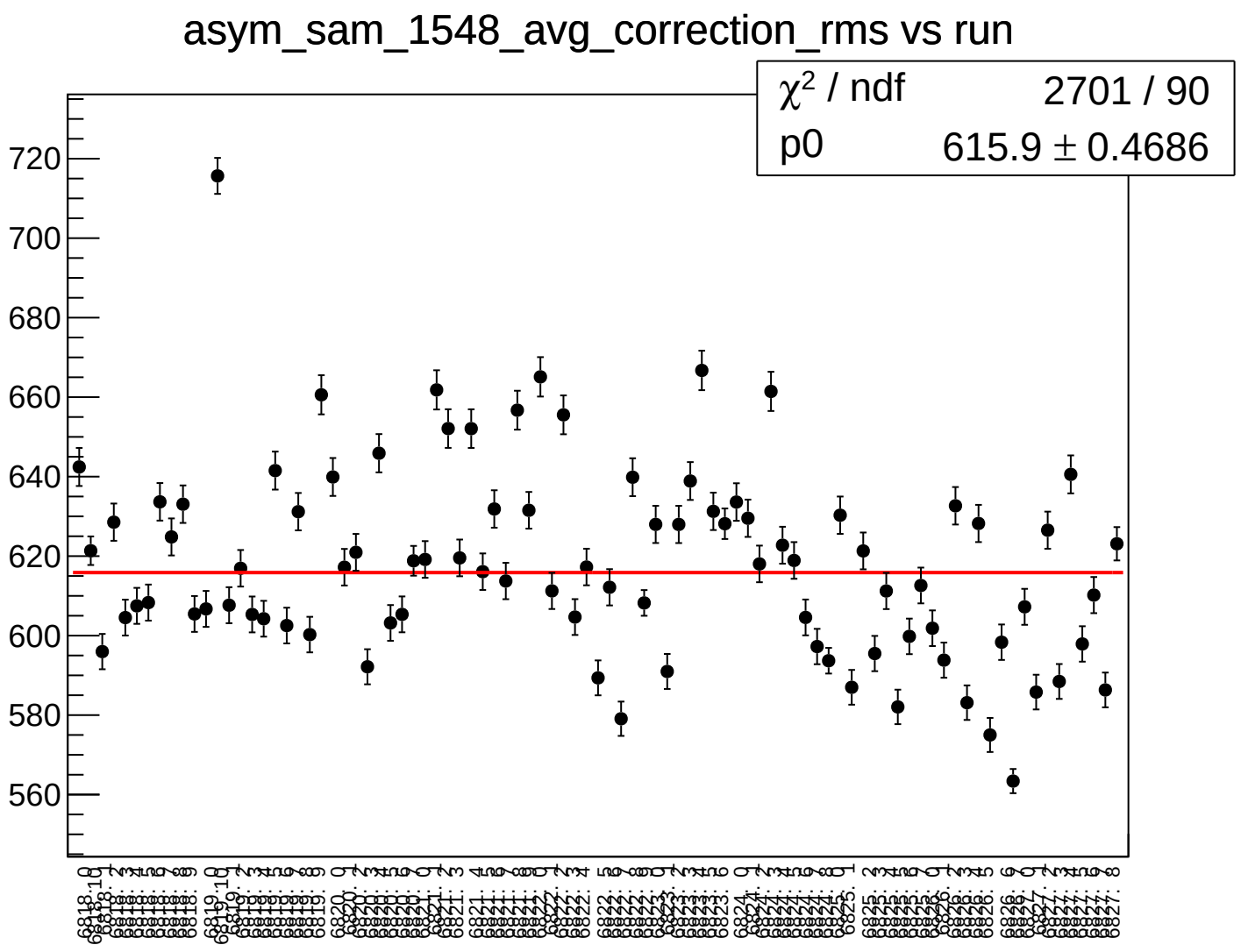

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 70.9 / 90
p0 −49.53 ± 103.9
pull
Entries 91
Mean 871.6
Std Dev 821.1

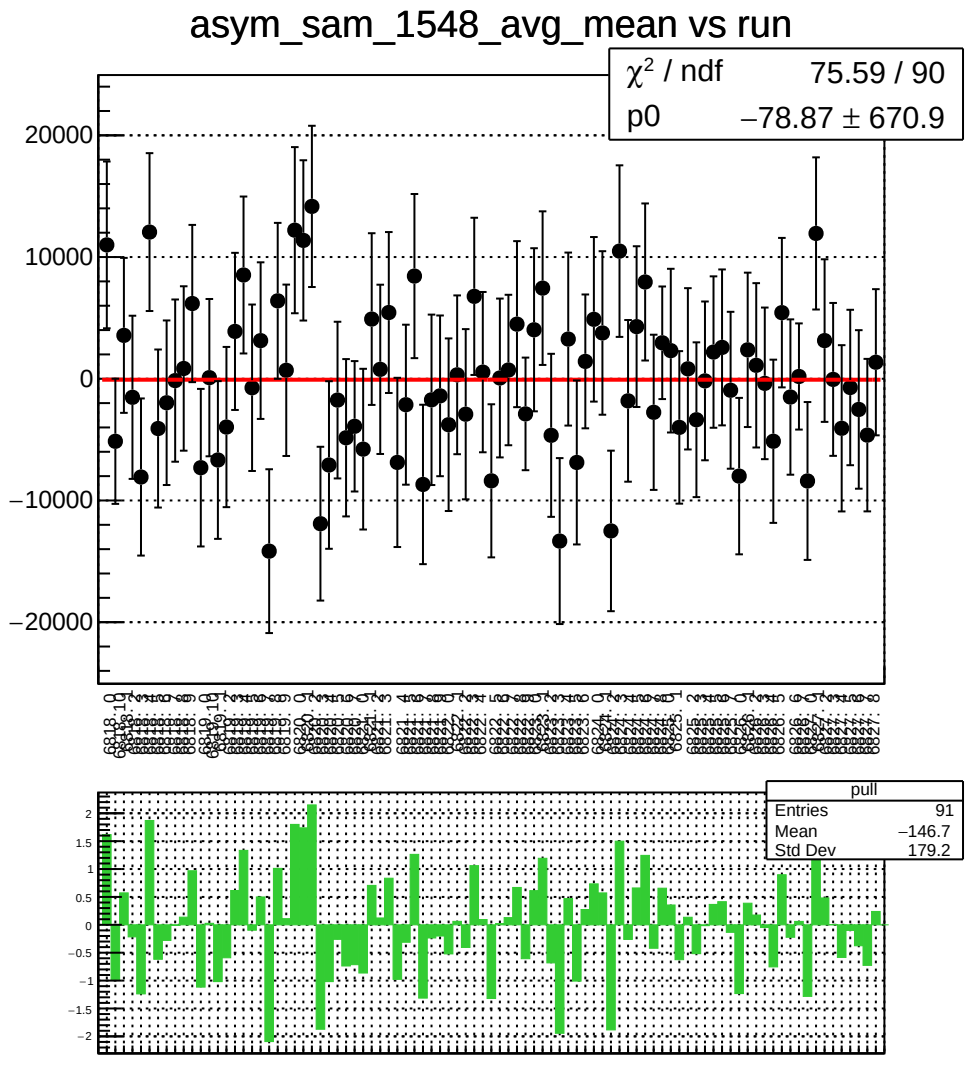

pull1D
Entries 91
Mean −0.00176
Std Dev 0.8827

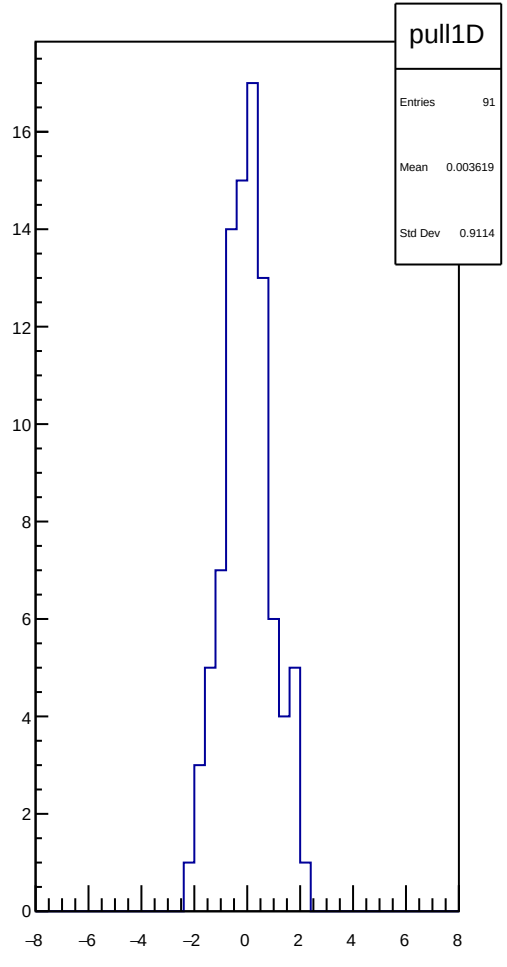

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 922.9 / 90
p0 96.65 ± 0.0735
102
100
98
96
94
92

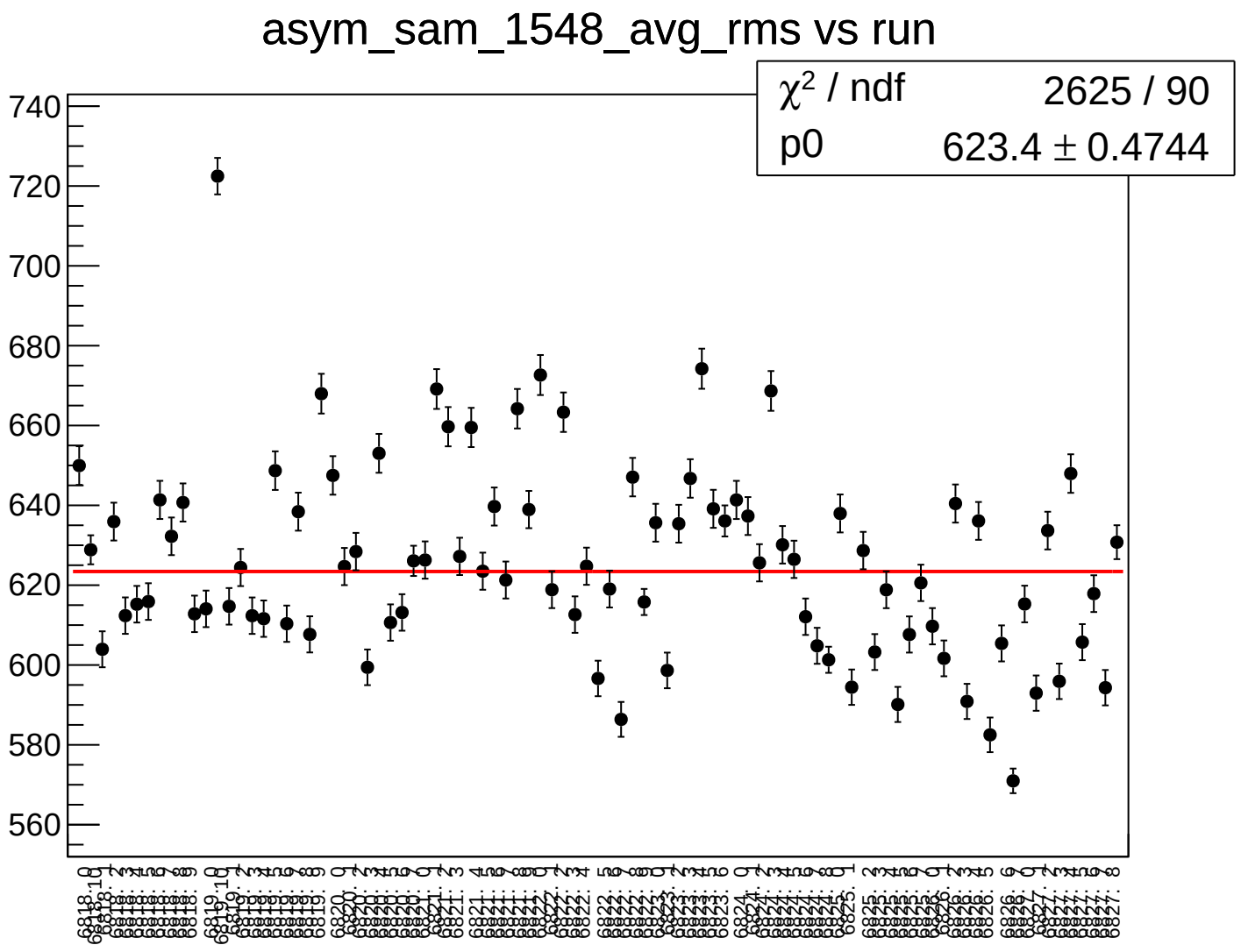

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 78.25 / 90
p0 29.72 ± 662.7
pull
Entries 91
Mean −70.33
Std Dev 91.39

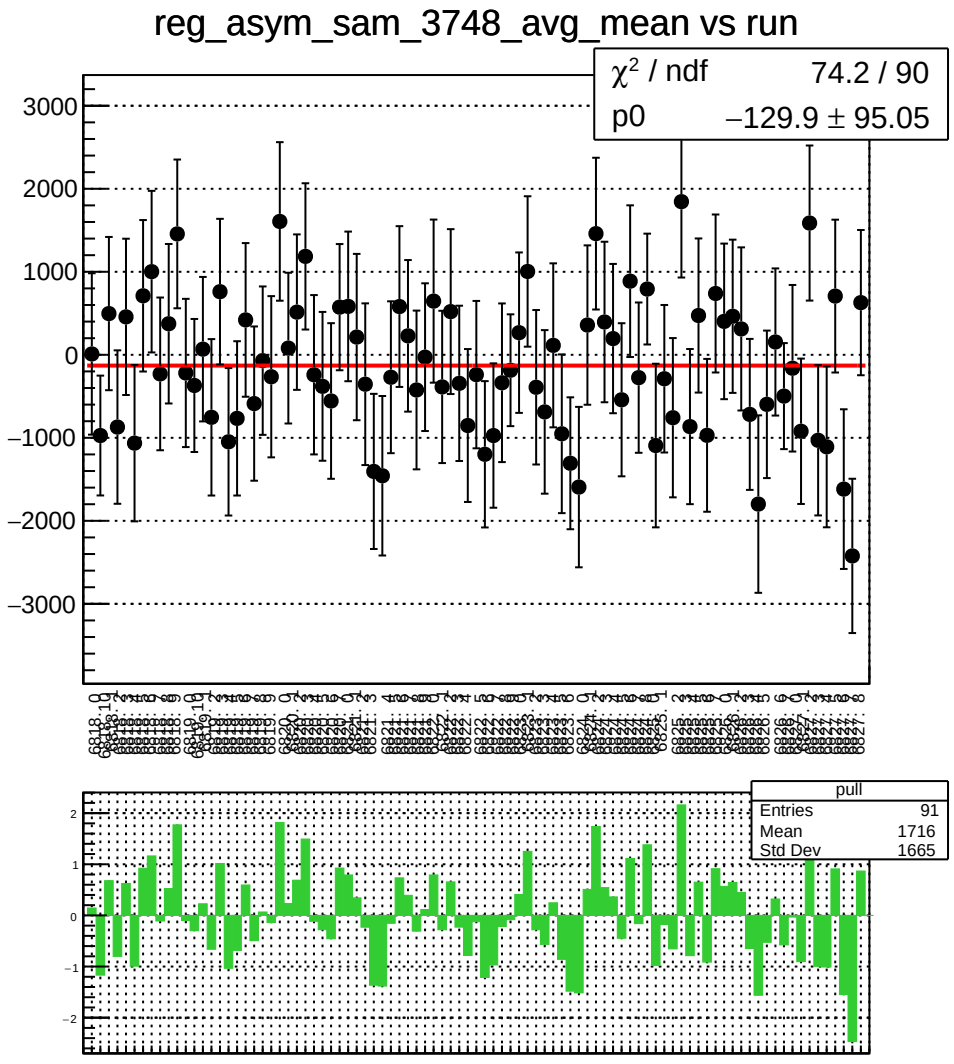

pull1D
Entries 91
Mean −0.003979
Std Dev 0.9273

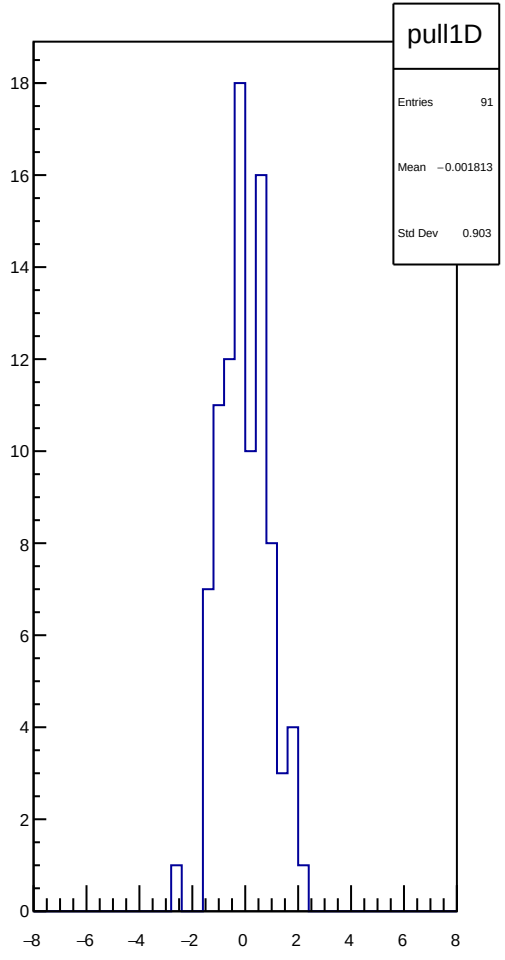

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 2701 / 90
p0 615.9 ± 0.4686
720
700
680
660
640
620
600
580
560

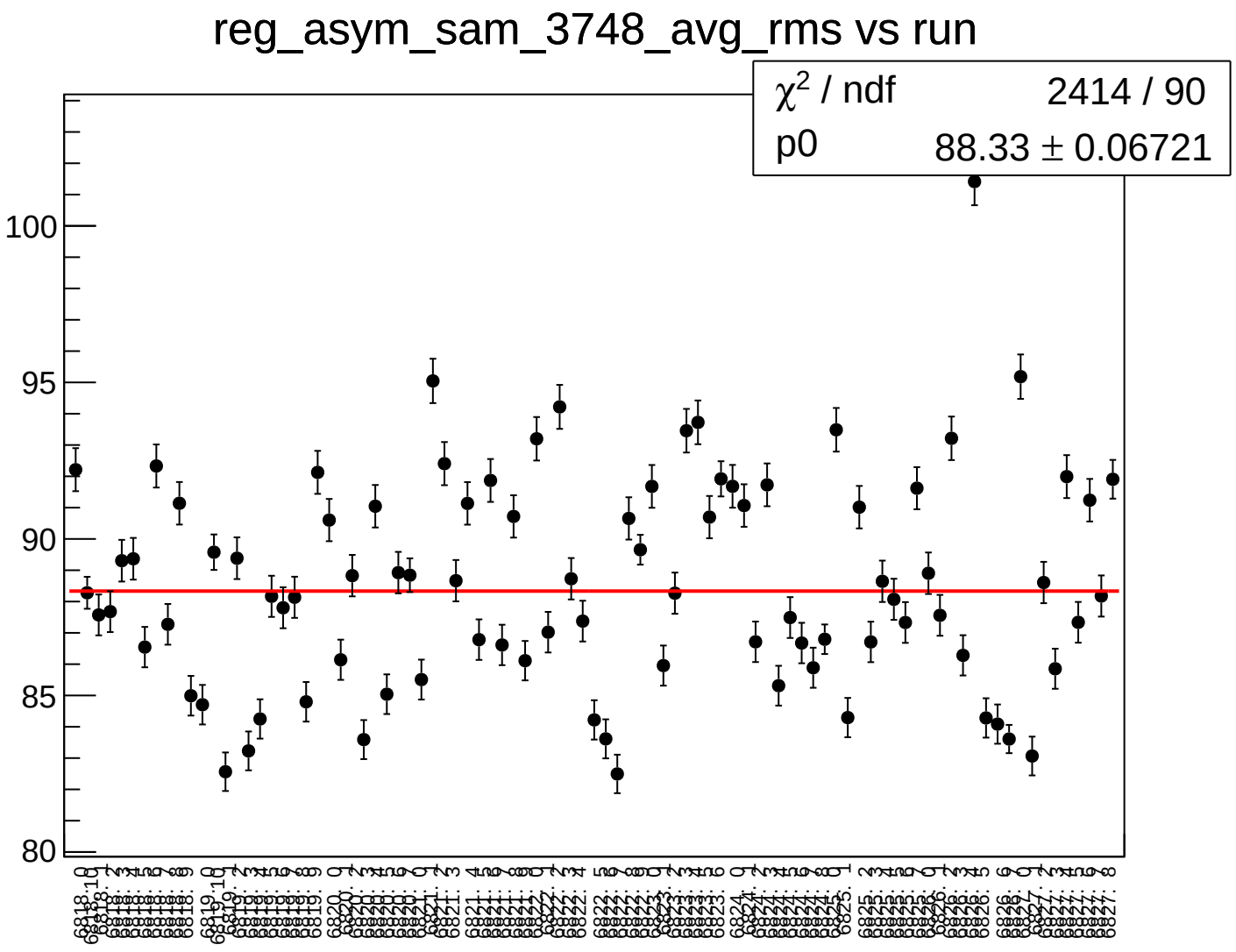

asym_sam_1548_avg_mean vs run
χ² / ndf 75.59 / 90
p0 −78.87 ± 670.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −146.7
Std Dev 179.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

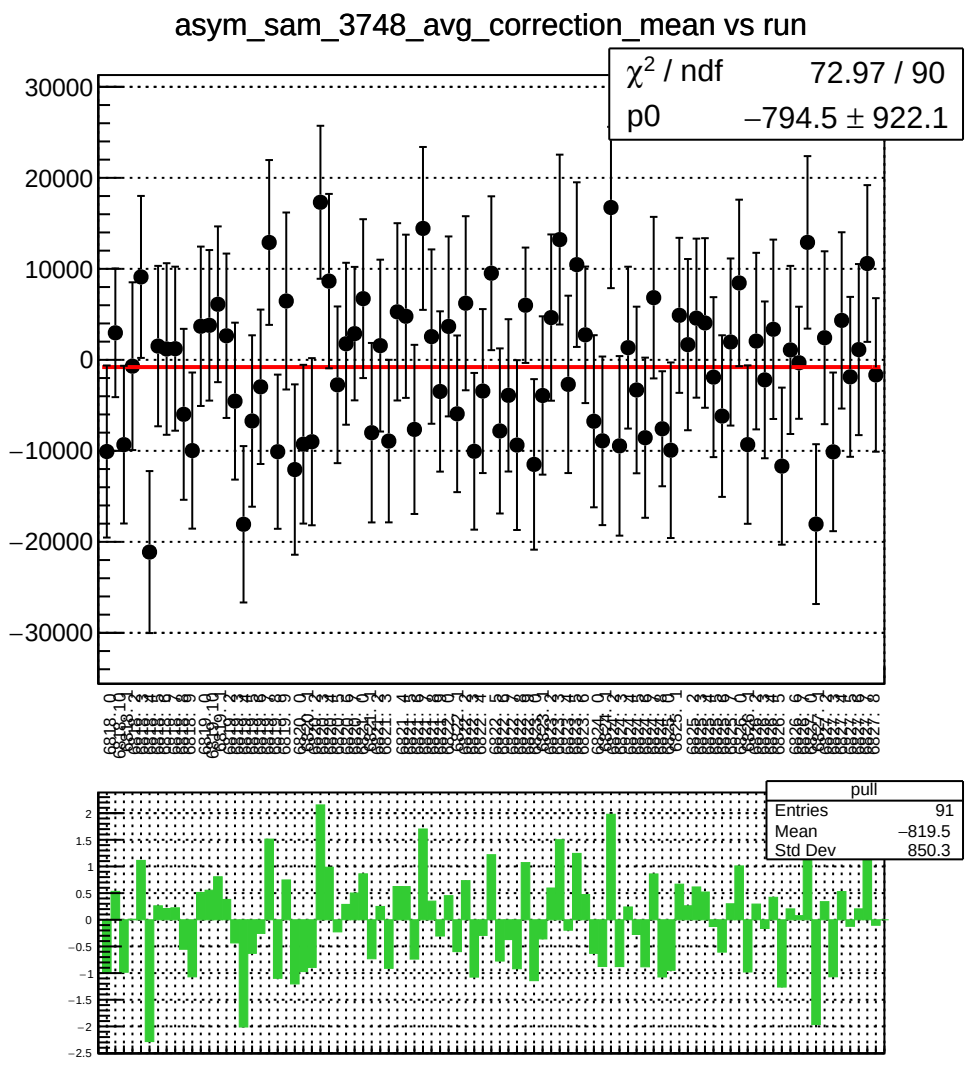

pull1D
Entries 91
Mean 0.003619
Std Dev 0.9114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

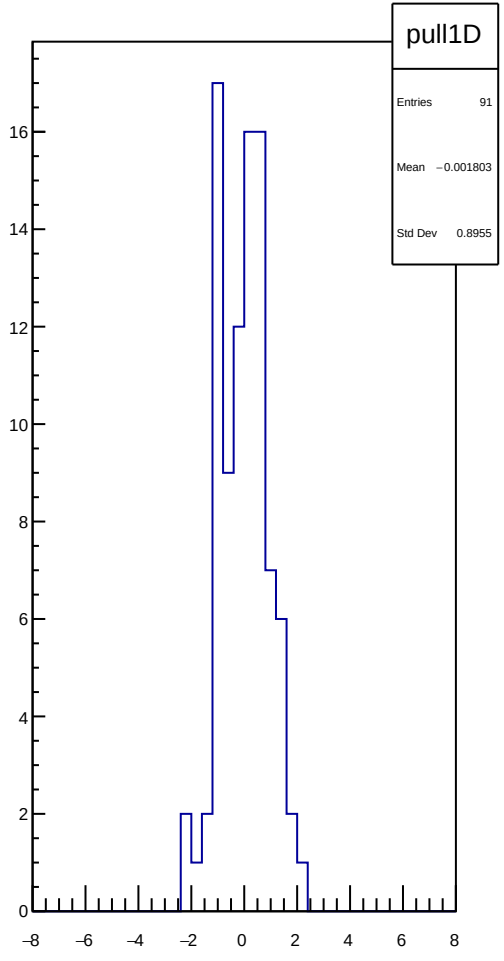

asym_sam_1548_avg_rms vs run
χ² / ndf 2625 / 90
p0 623.4 ± 0.4744
740
720
700
680
660
640
620
600
580
560

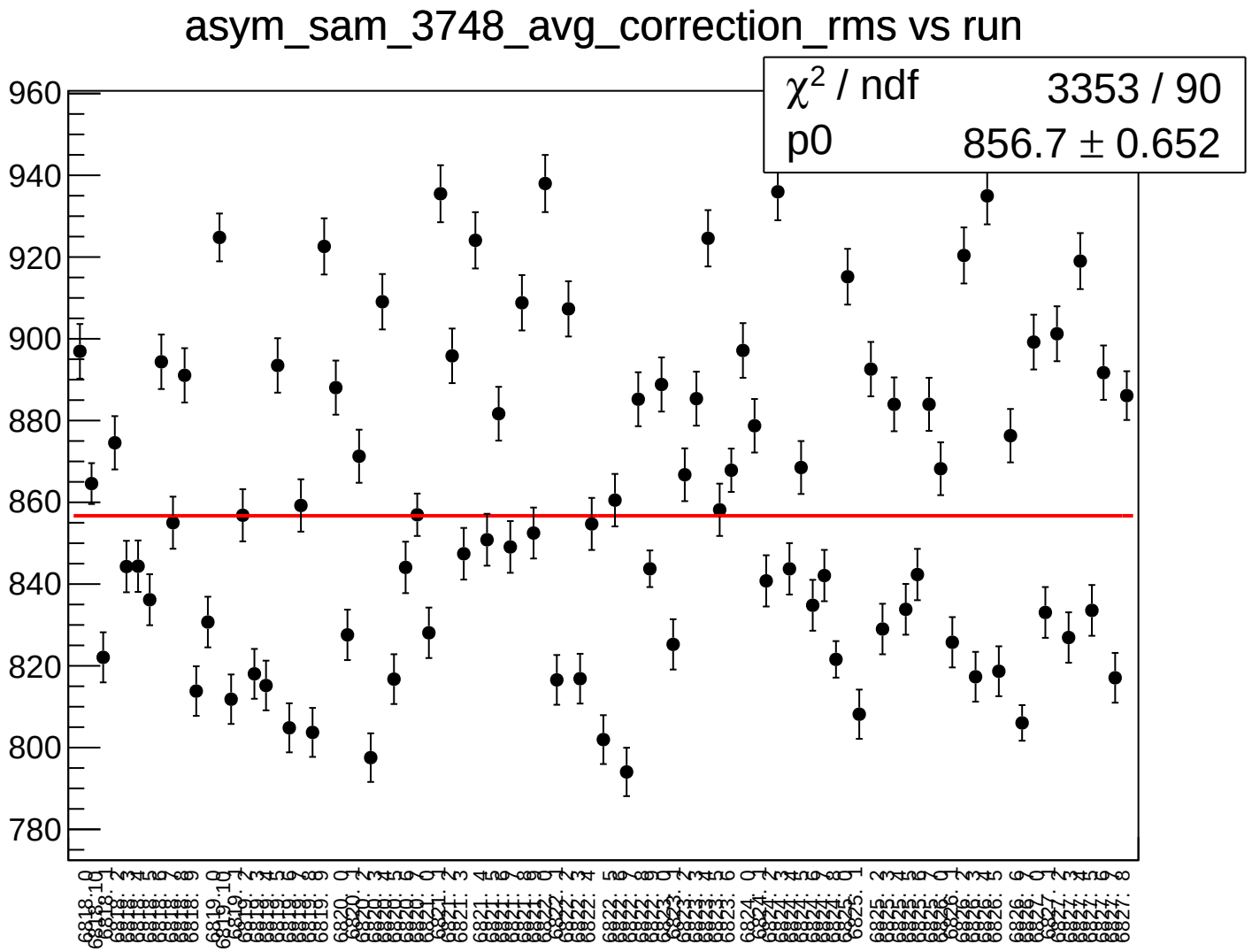

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 74.2 / 90
p0 −129.9 ± 95.05
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 1716
Std Dev 1665
2
1
0
−1
−2

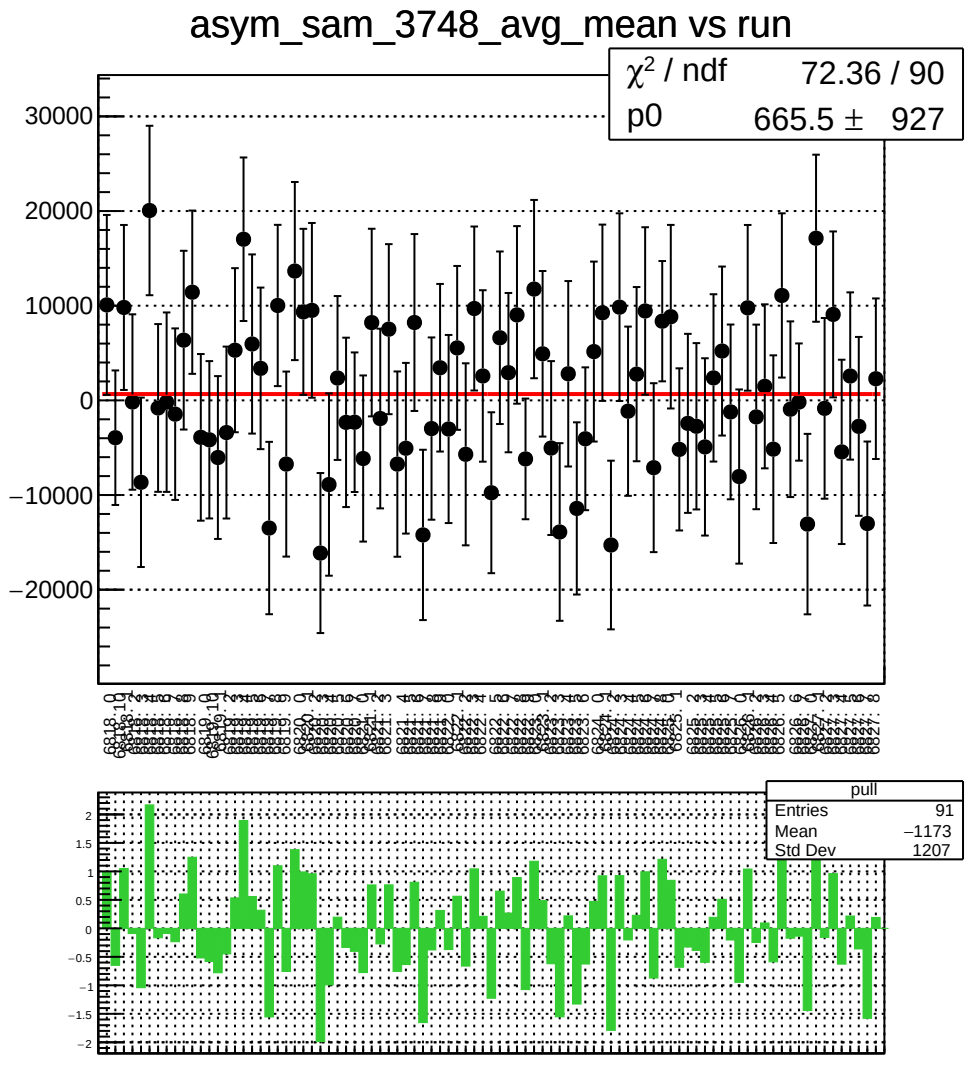

pull1D
Entries 91
Mean −0.001813
Std Dev 0.903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

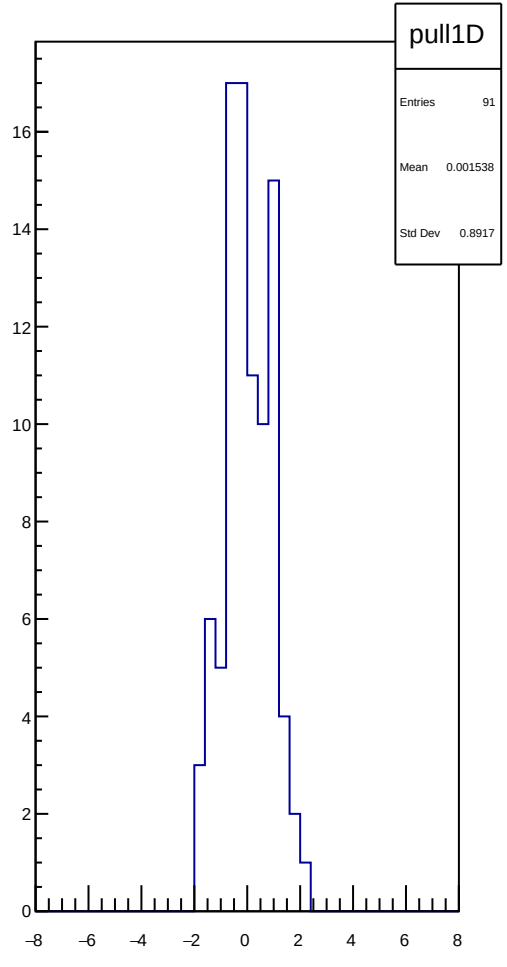

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2414 / 90
p0 88.33 ± 0.06721
100
95
90
85
80

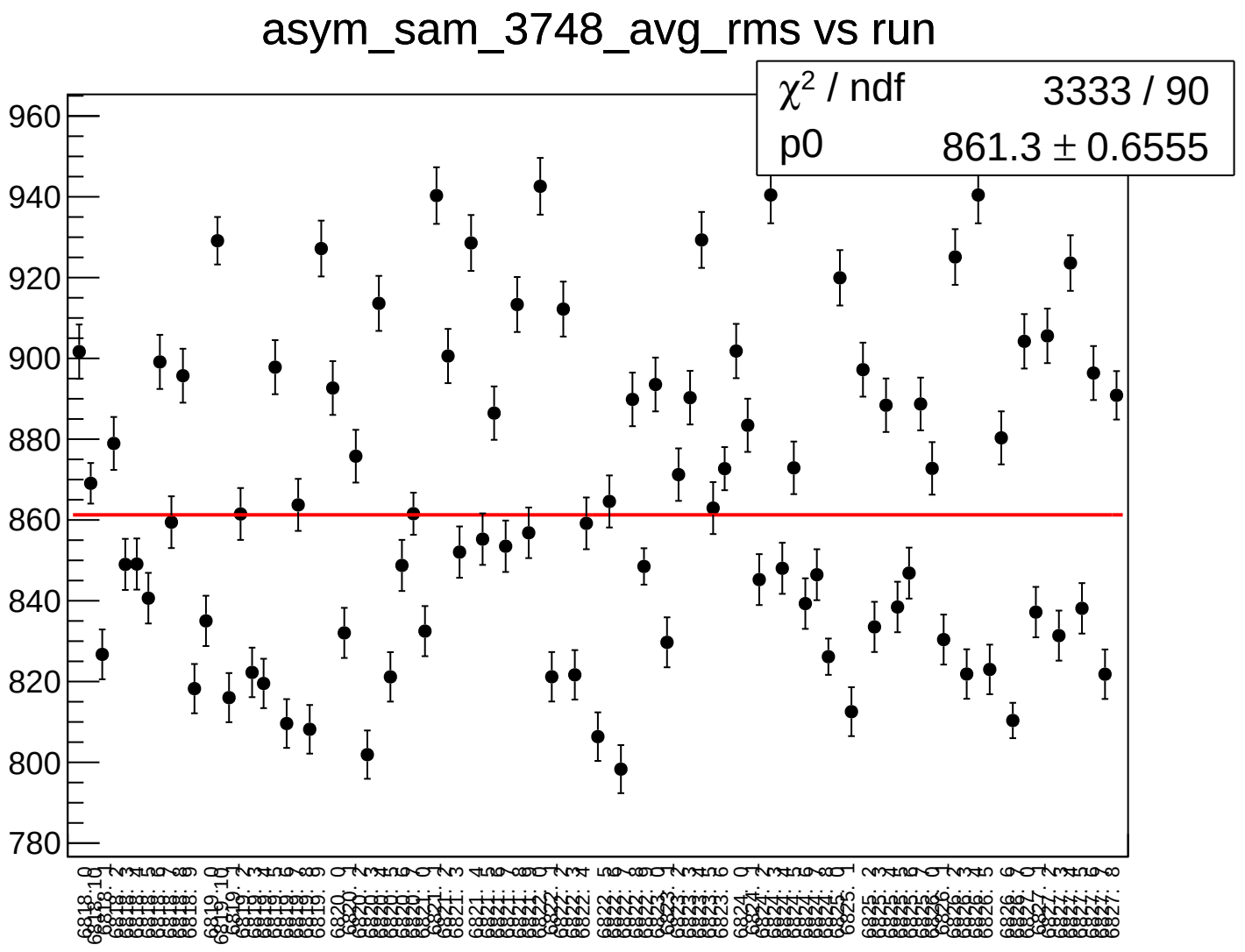

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 72.97 / 90
p0 −794.5 ± 922.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −819.5
Std Dev 850.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

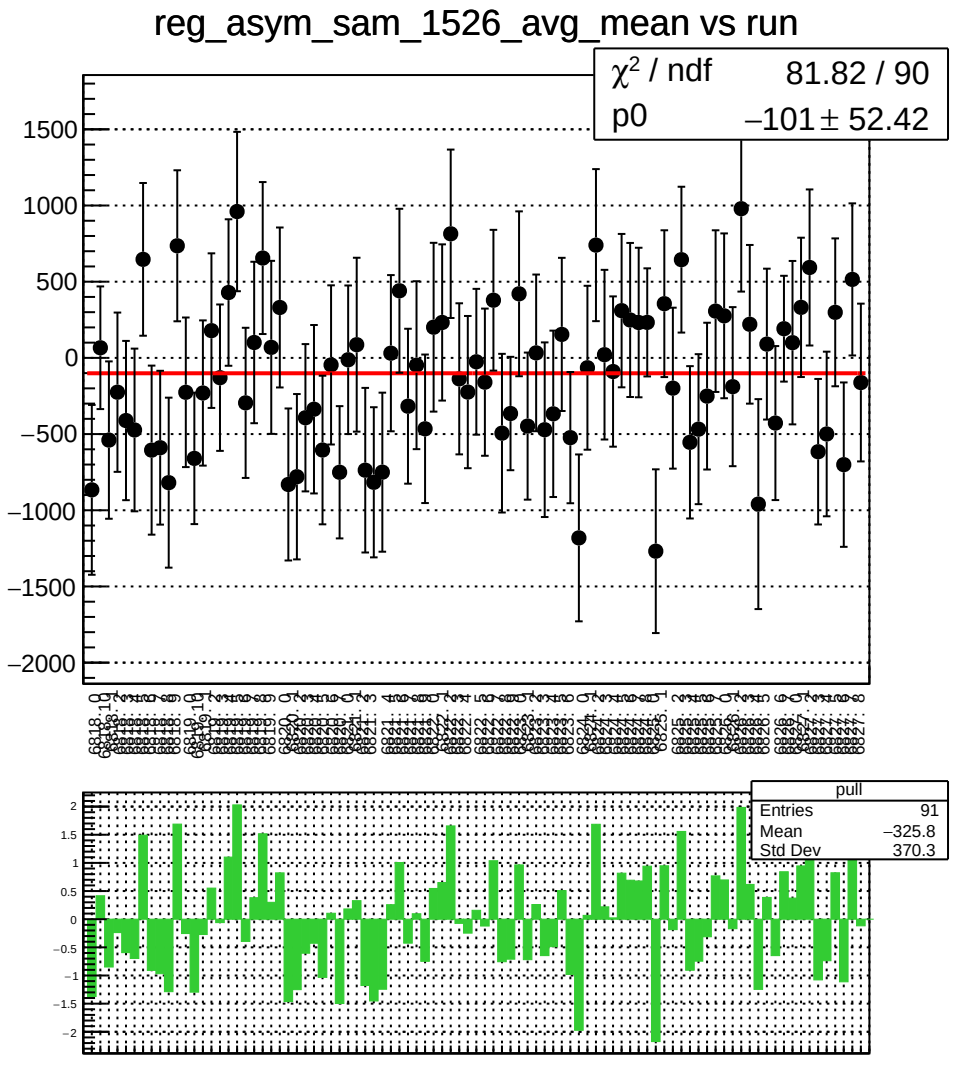

pull1D
Entries 91
Mean −0.001803
Std Dev 0.8955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

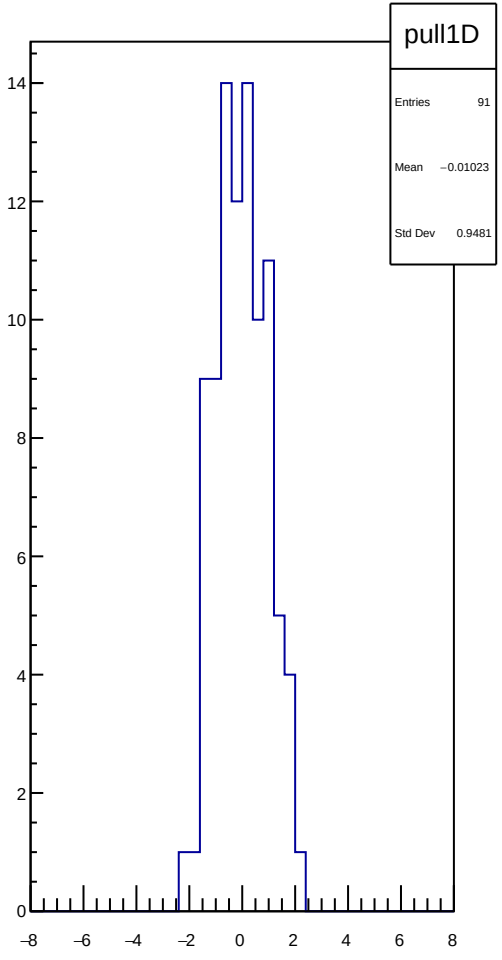

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 3353 / 90
p0 856.7 ± 0.652
960
940
920
900
880
860
840
820
800
780

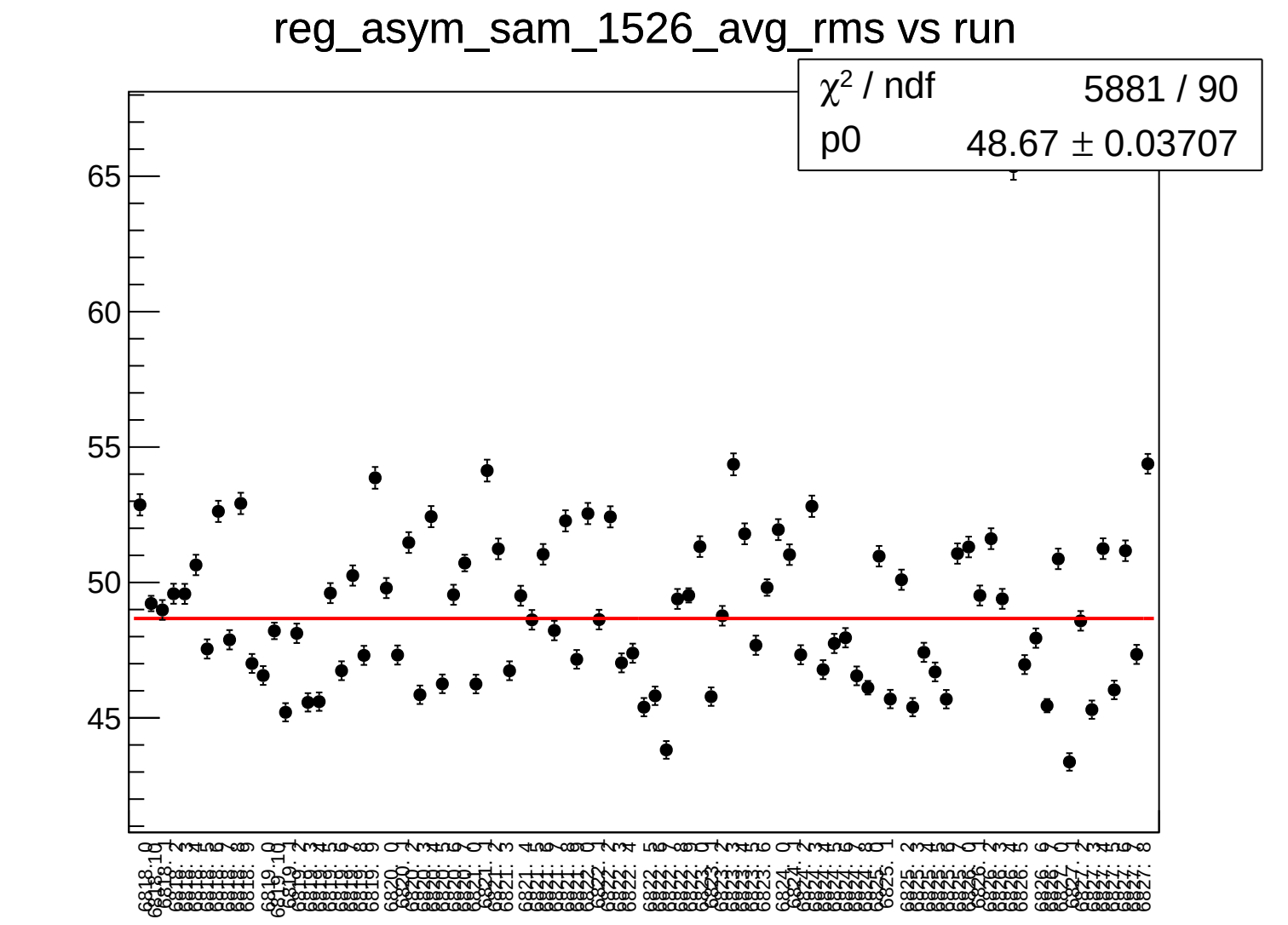

asym_sam_3748_avg_mean vs run
χ² / ndf 72.36 / 90
p0 665.5 ± 927
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −1173
Std Dev 1207
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

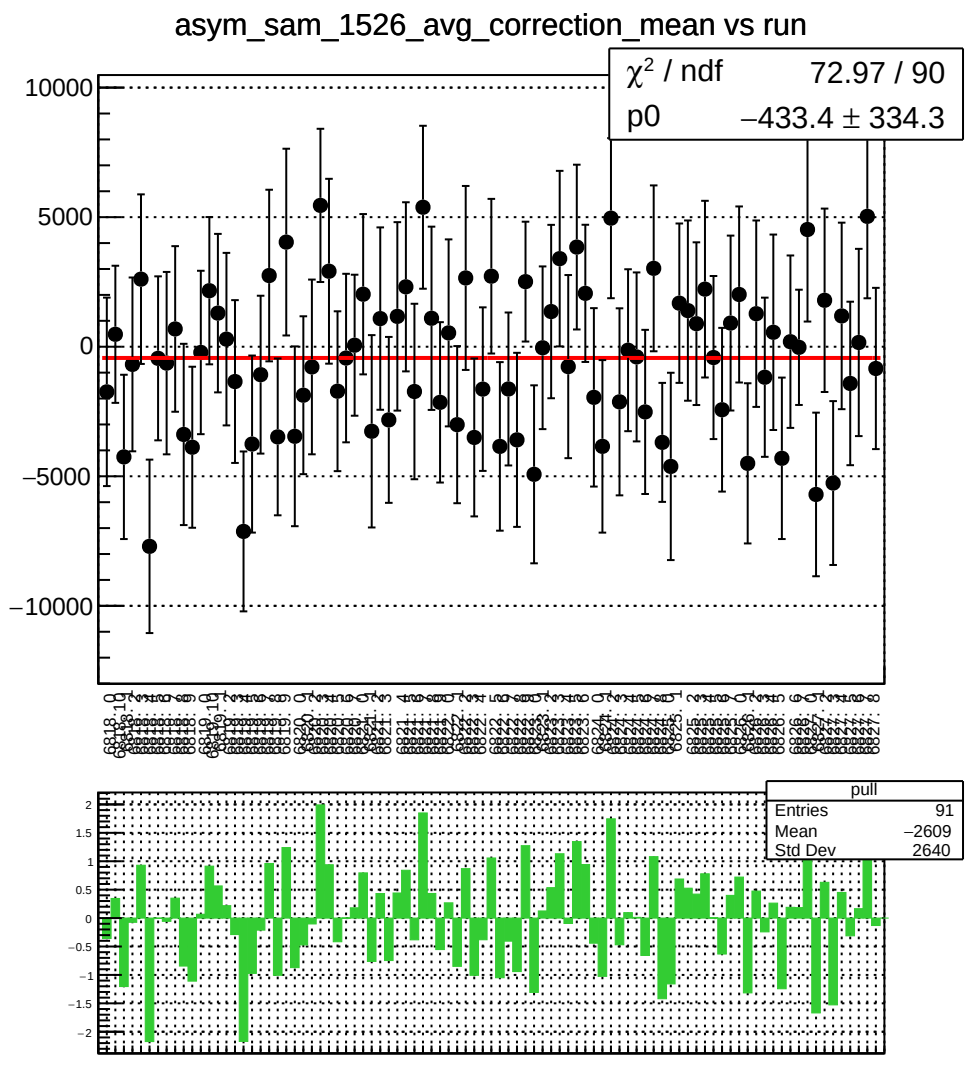

pull1D
Entries 91
Mean 0.001538
Std Dev 0.8917
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

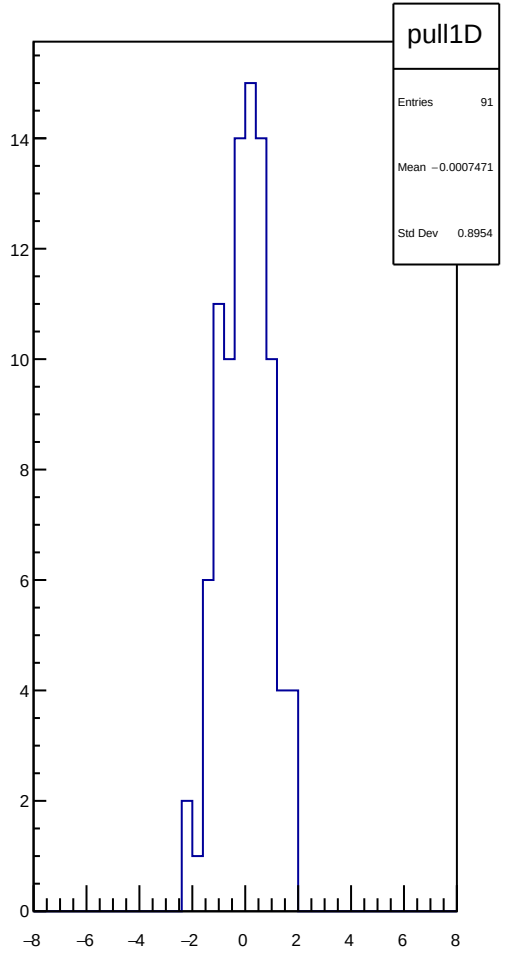

asym_sam_3748_avg_rms vs run
χ² / ndf 3333 / 90
p0 861.3 ± 0.6555
960
940
920
900
880
860
840
820
800
780

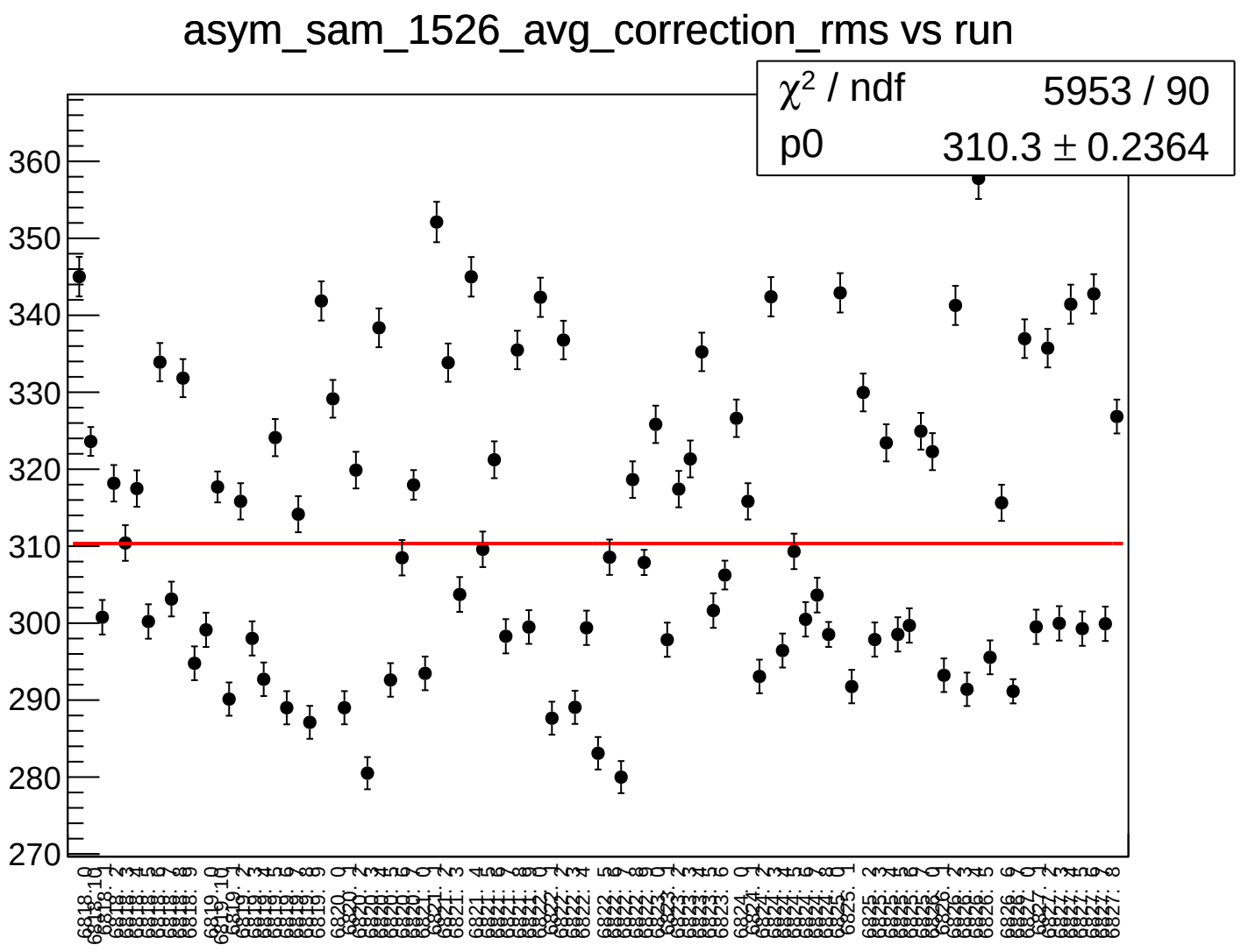

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 81.82 / 90
p0 −101 ± 52.42
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean −325.8
Std Dev 370.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

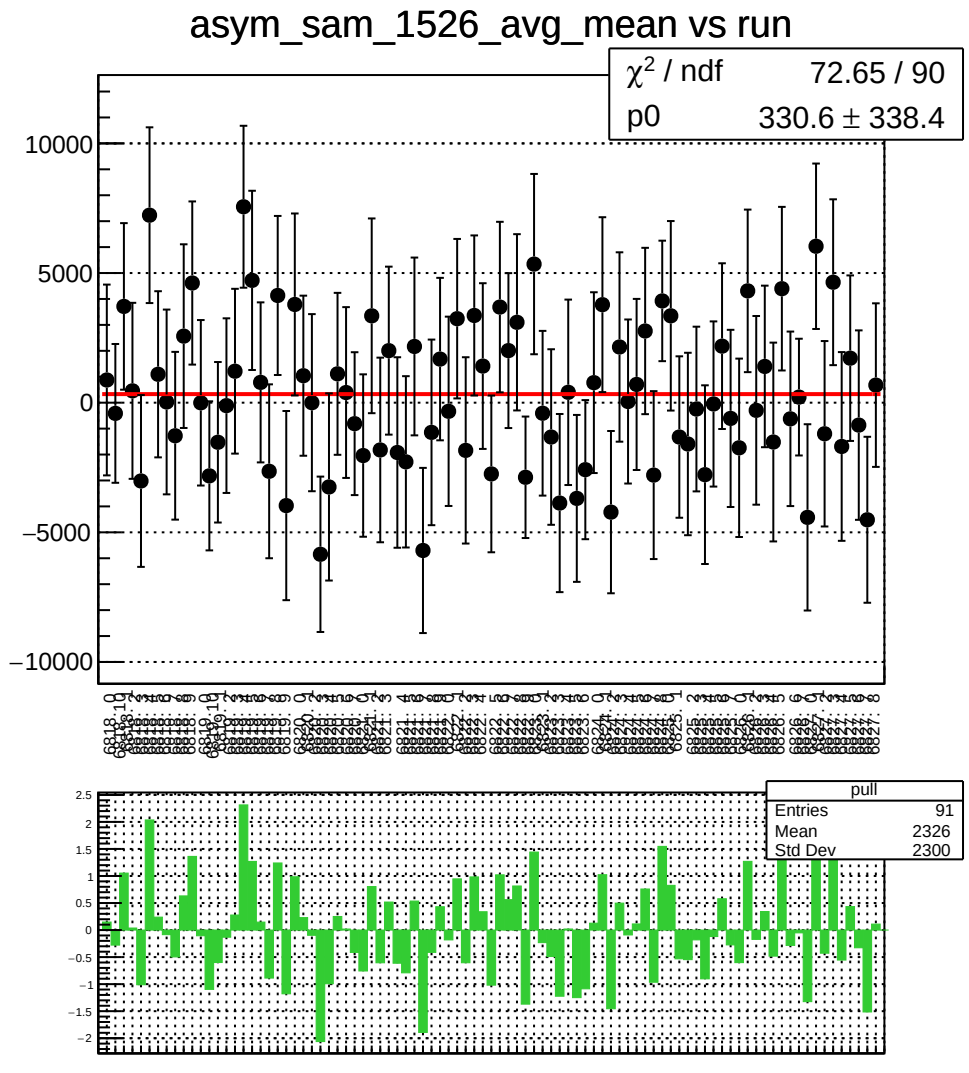

pull1D
Entries 91
Mean −0.01023
Std Dev 0.9481
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

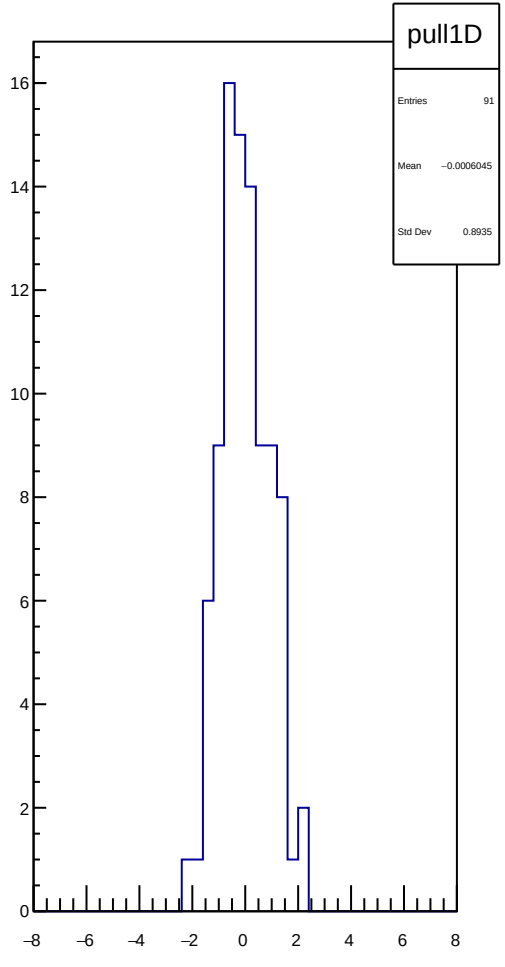

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5881 / 90
p0 48.67 ± 0.03707
65
60
55
50
45

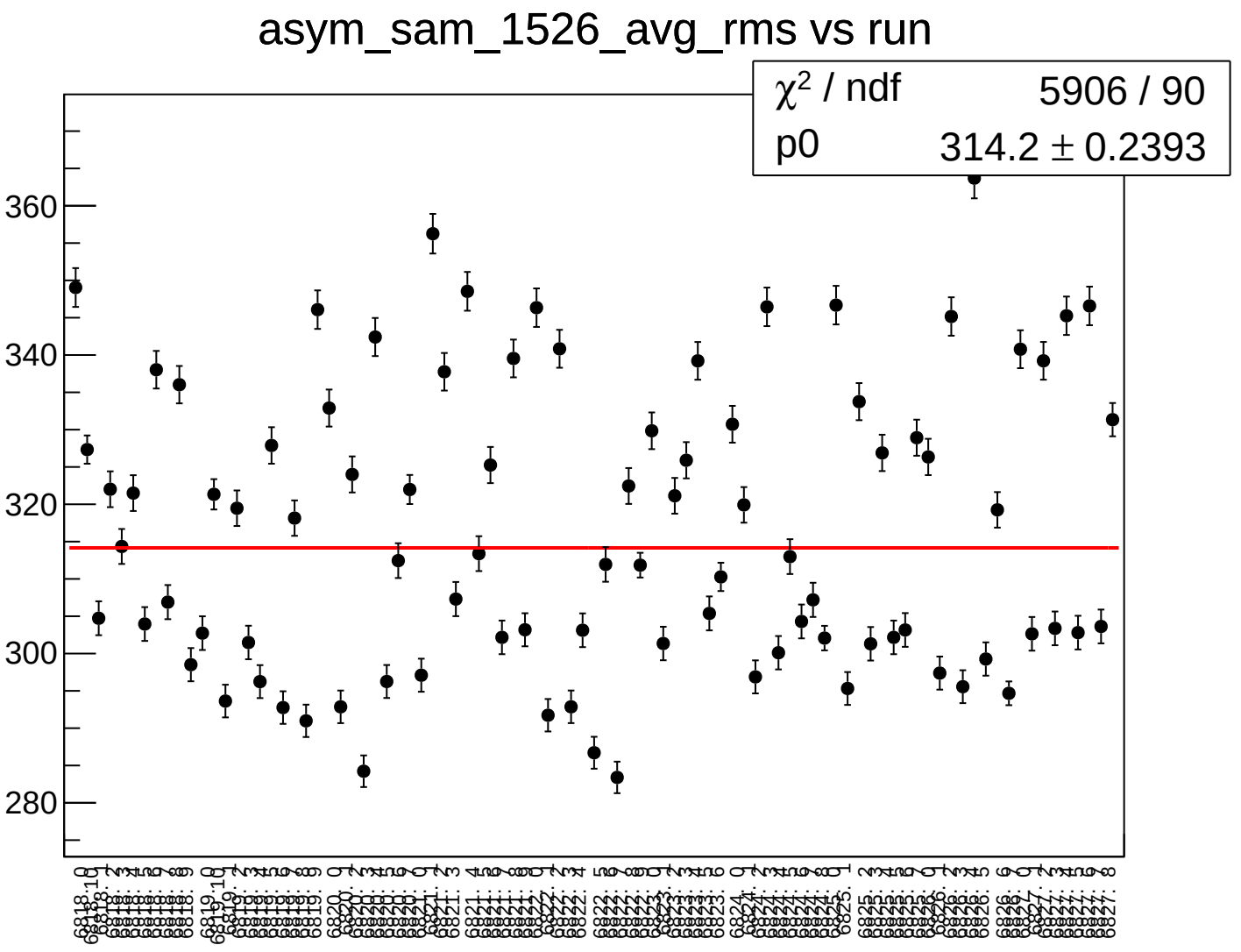

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 72.97 / 90
p0 −433.4 ± 334.3
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −2609
Std Dev 2640
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

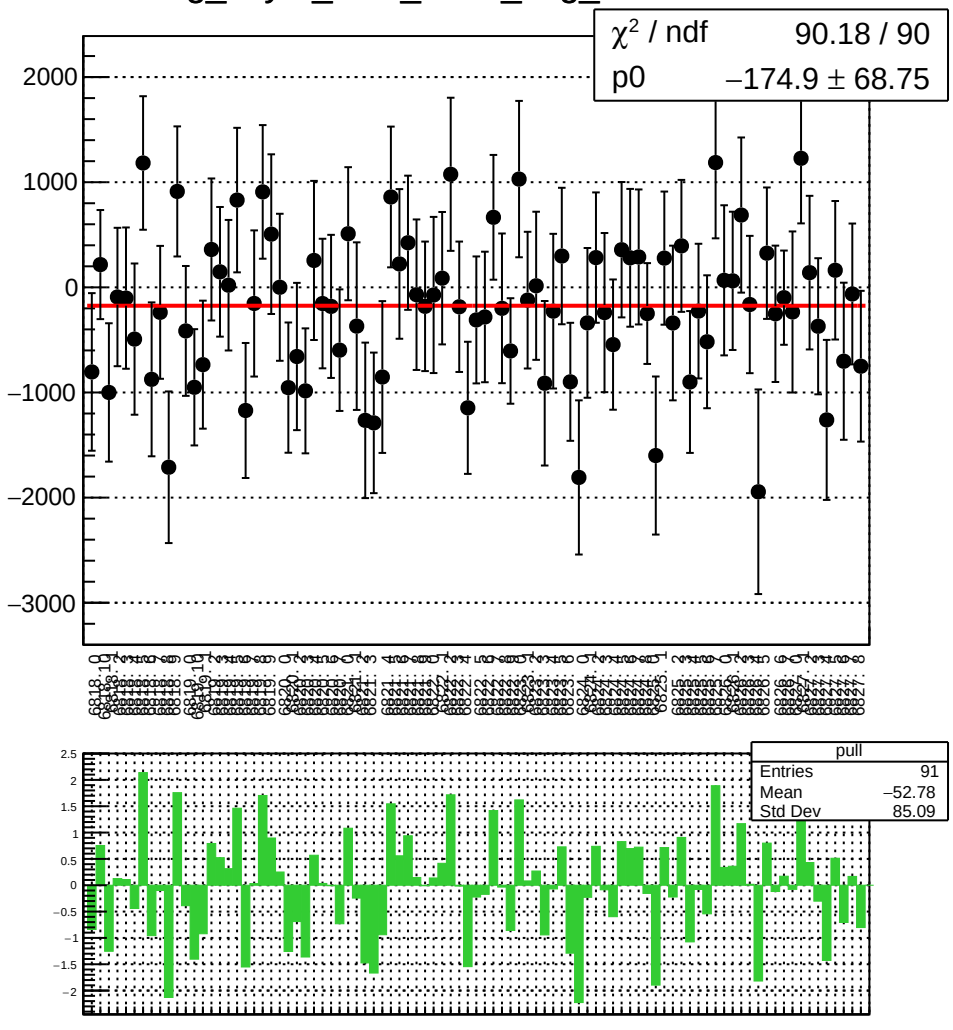

pull1D
Entries 91
Mean −0.0007471
Std Dev 0.8954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

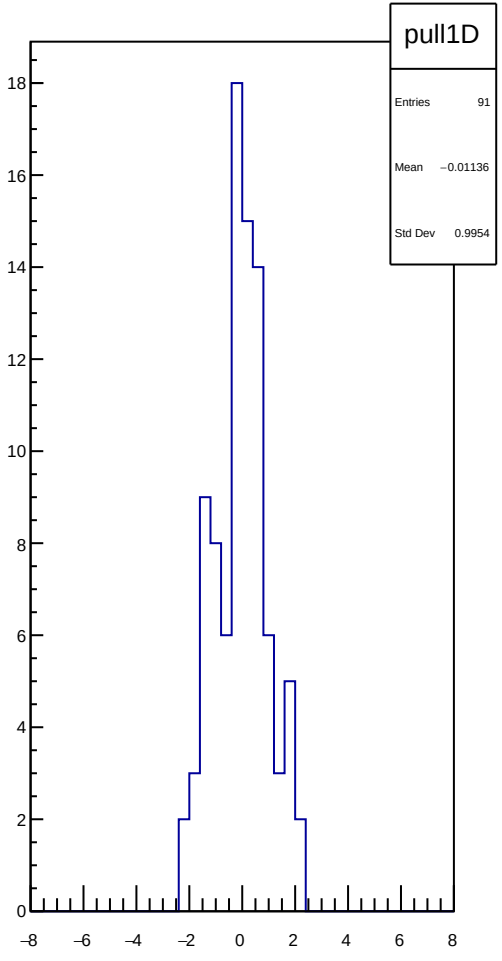

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 5953 / 90
p0 310.3 ± 0.2364
360
350
340
330
320
310
300
290
280
270

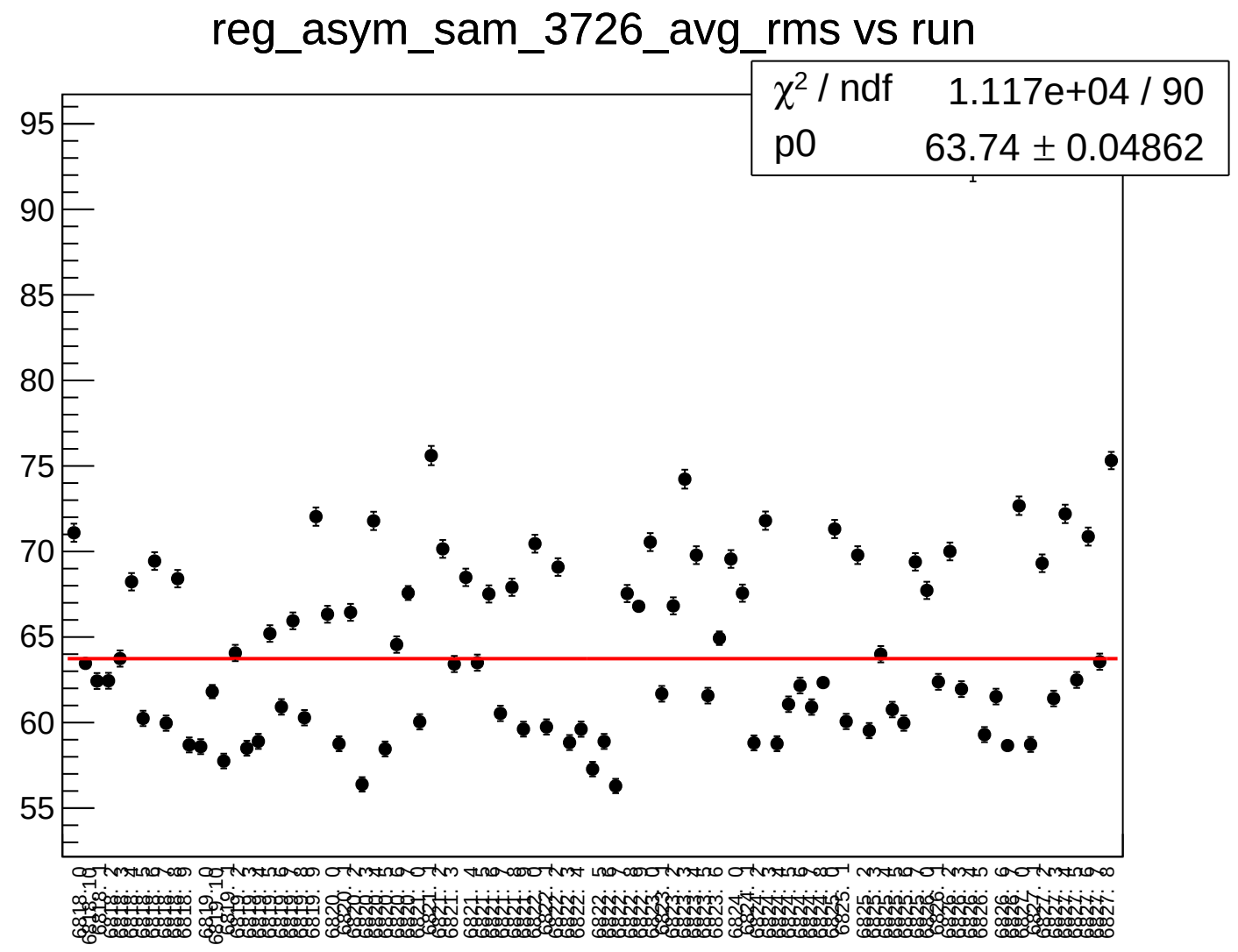

asym_sam_1526_avg_mean vs run
χ² / ndf 72.65 / 90
p0 330.6 ± 338.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 2326
Std Dev 2300
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

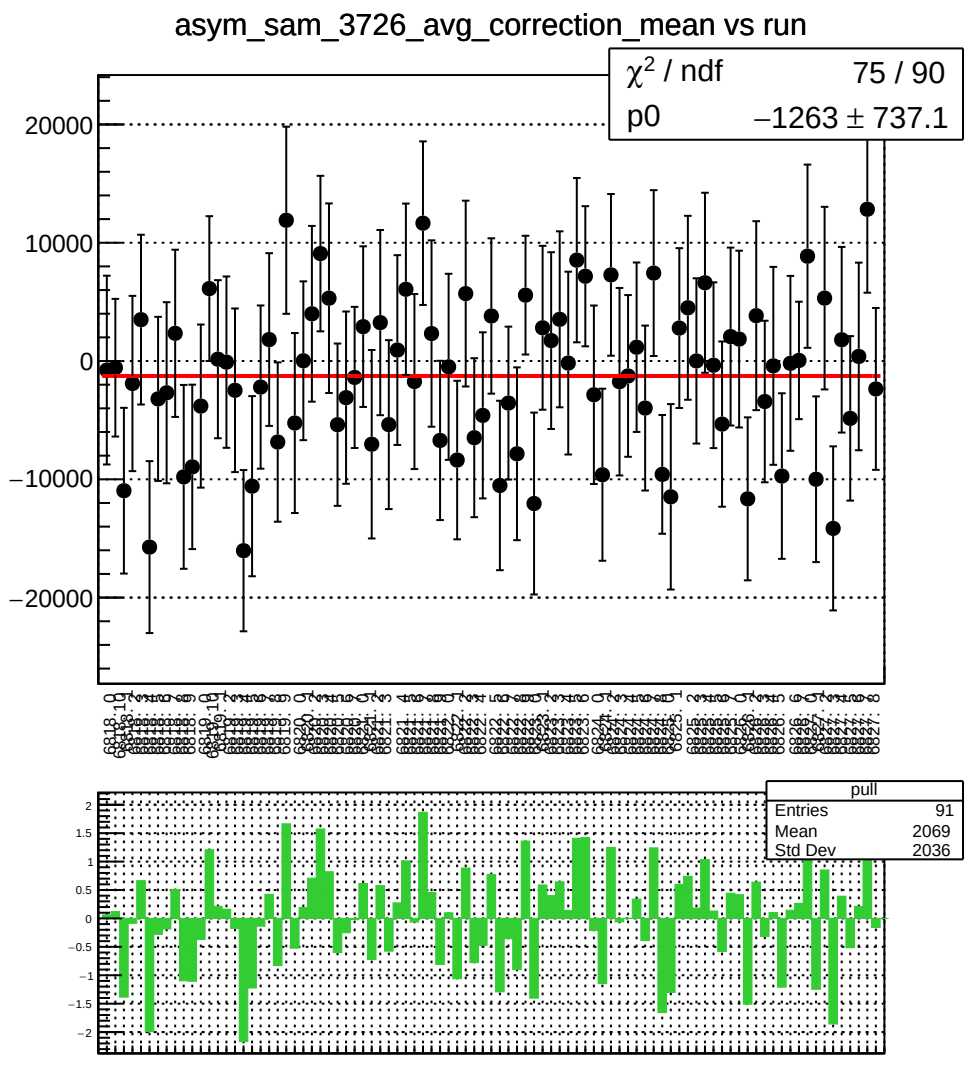

pull1D
Entries 91
Mean −0.0006045
Std Dev 0.8935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

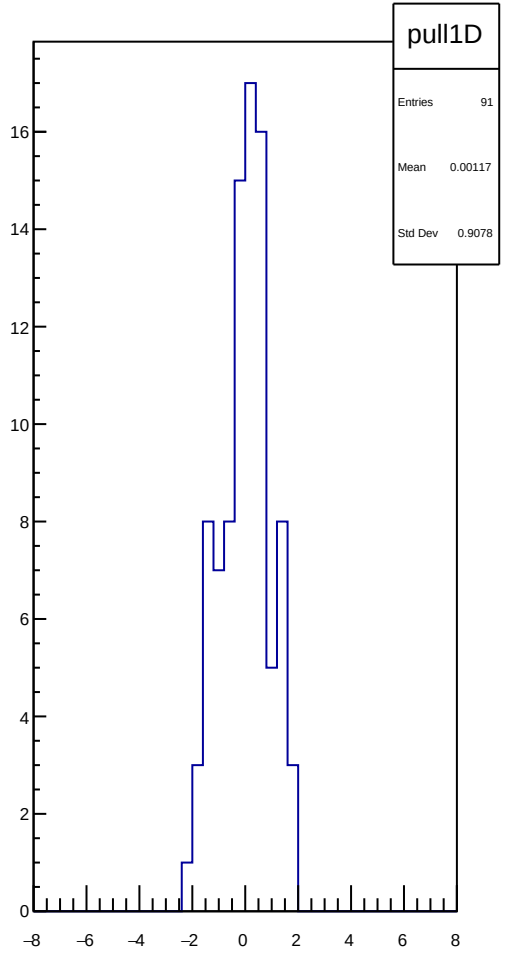

asym_sam_1526_avg_rms vs run
χ^2 / ndf 5906 / 90
p0 314.2 ± 0.2393
360
340
320
300
280

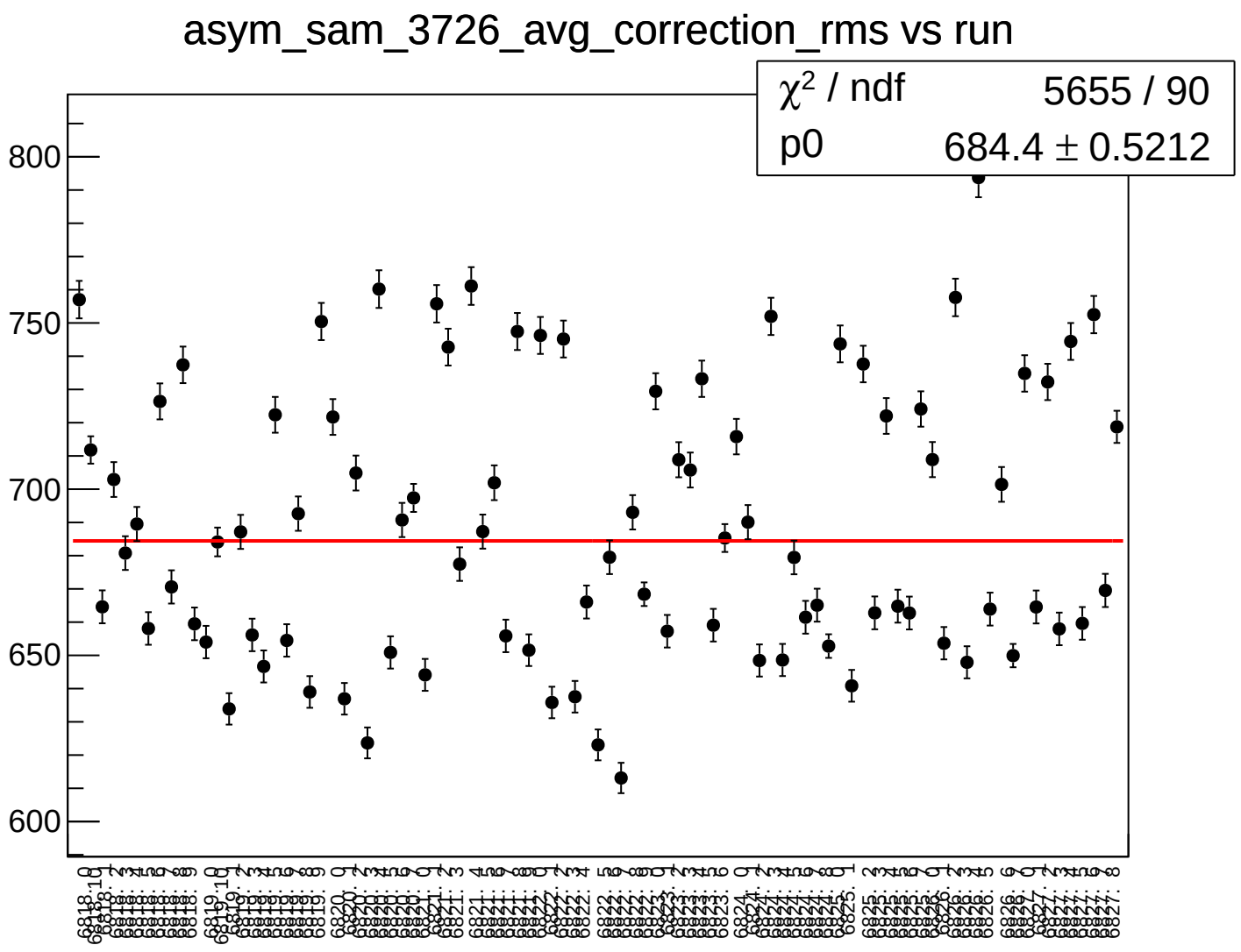

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 90.18 / 90
p0 −174.9 ± 68.75
pull
Entries 91
Mean −52.78
Std Dev 85.09

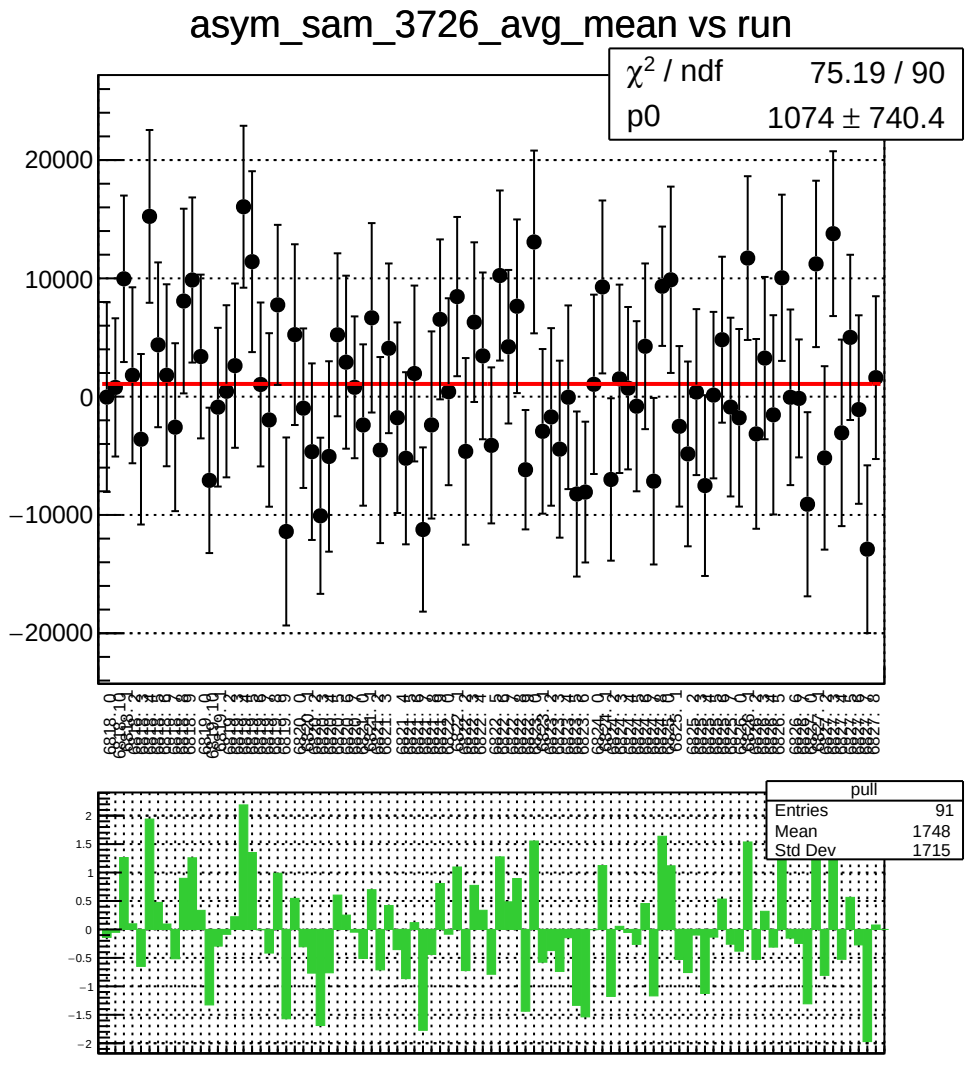

pull1D
Entries 91
Mean −0.01136
Std Dev 0.9954

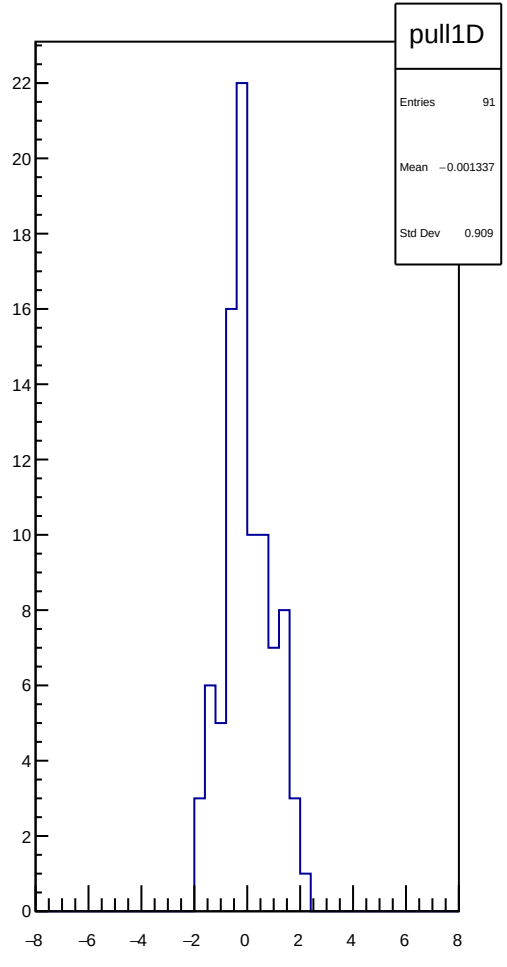

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.117e+04 / 90
p0 63.74 ± 0.04862
95
90
85
80
75
70
65
60
55

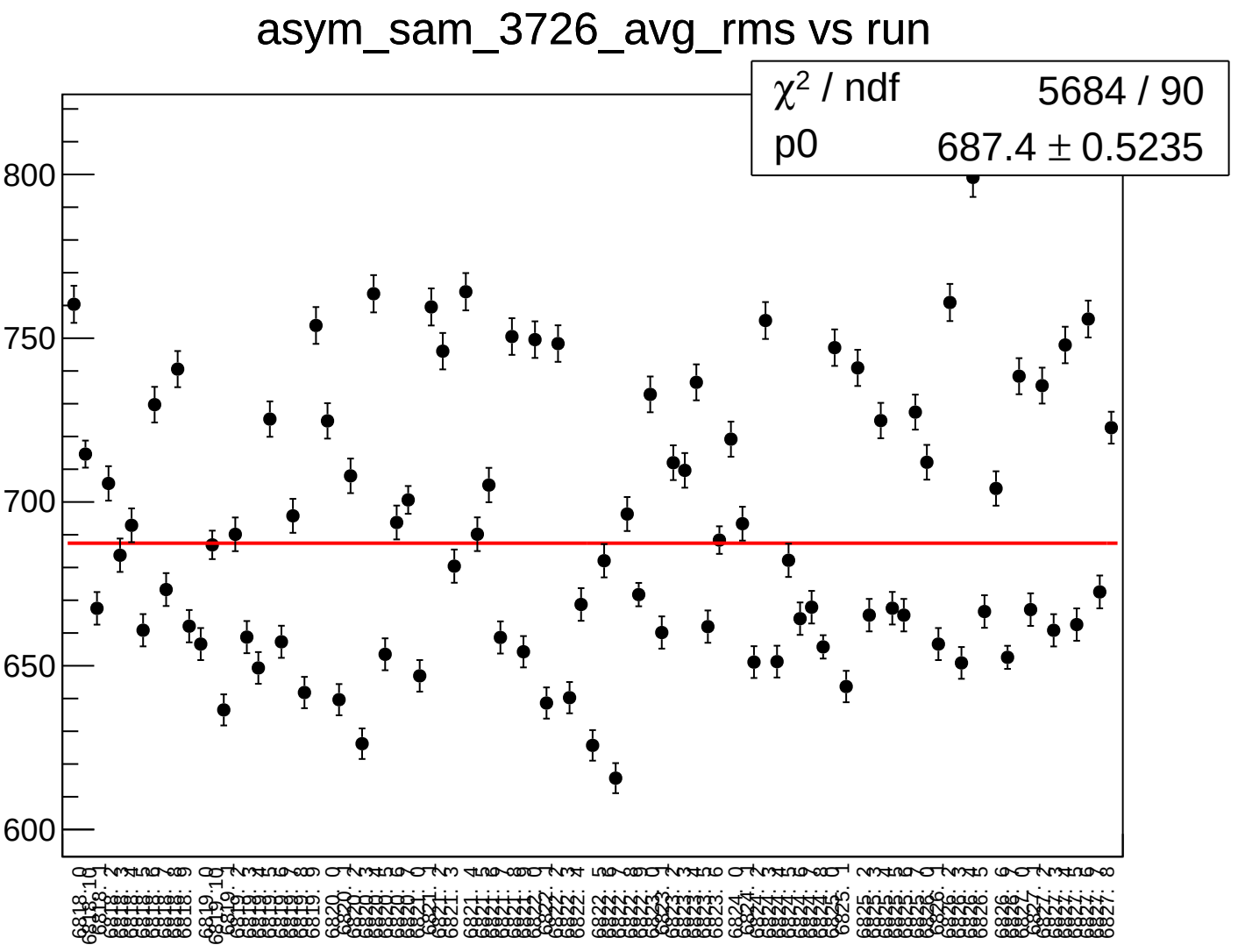

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 75 / 90
p0 −1263 ± 737.1
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 2069
Std Dev 2036
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

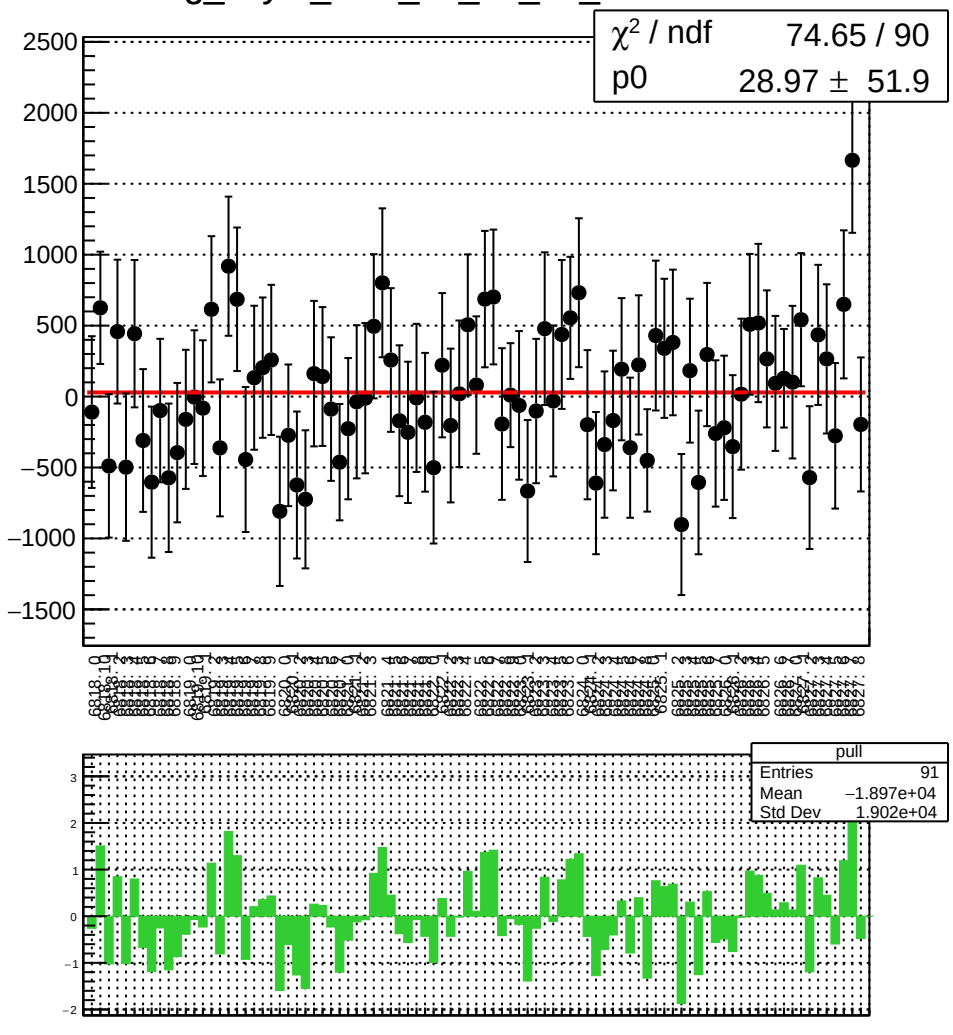

pull1D
Entries 91
Mean 0.00117
Std Dev 0.9078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

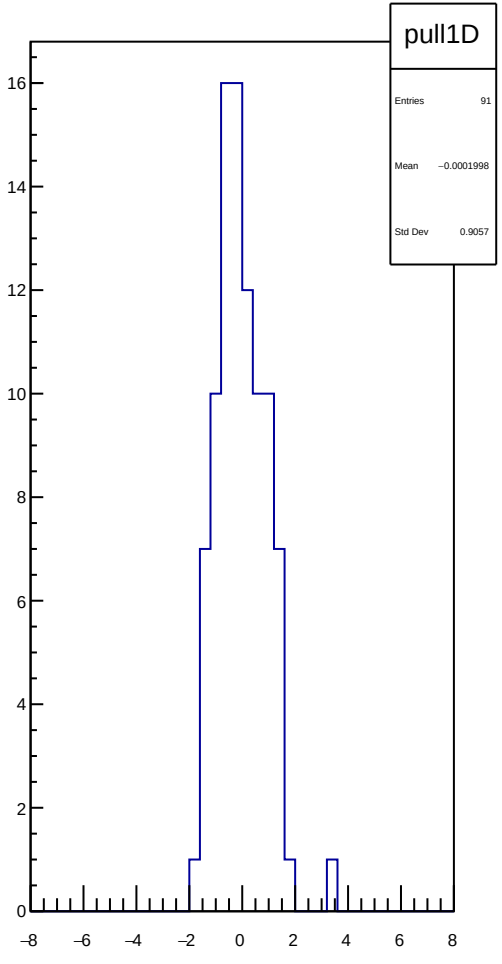

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 5655 / 90
p0 684.4 ± 0.5212
800
750
700
650
600

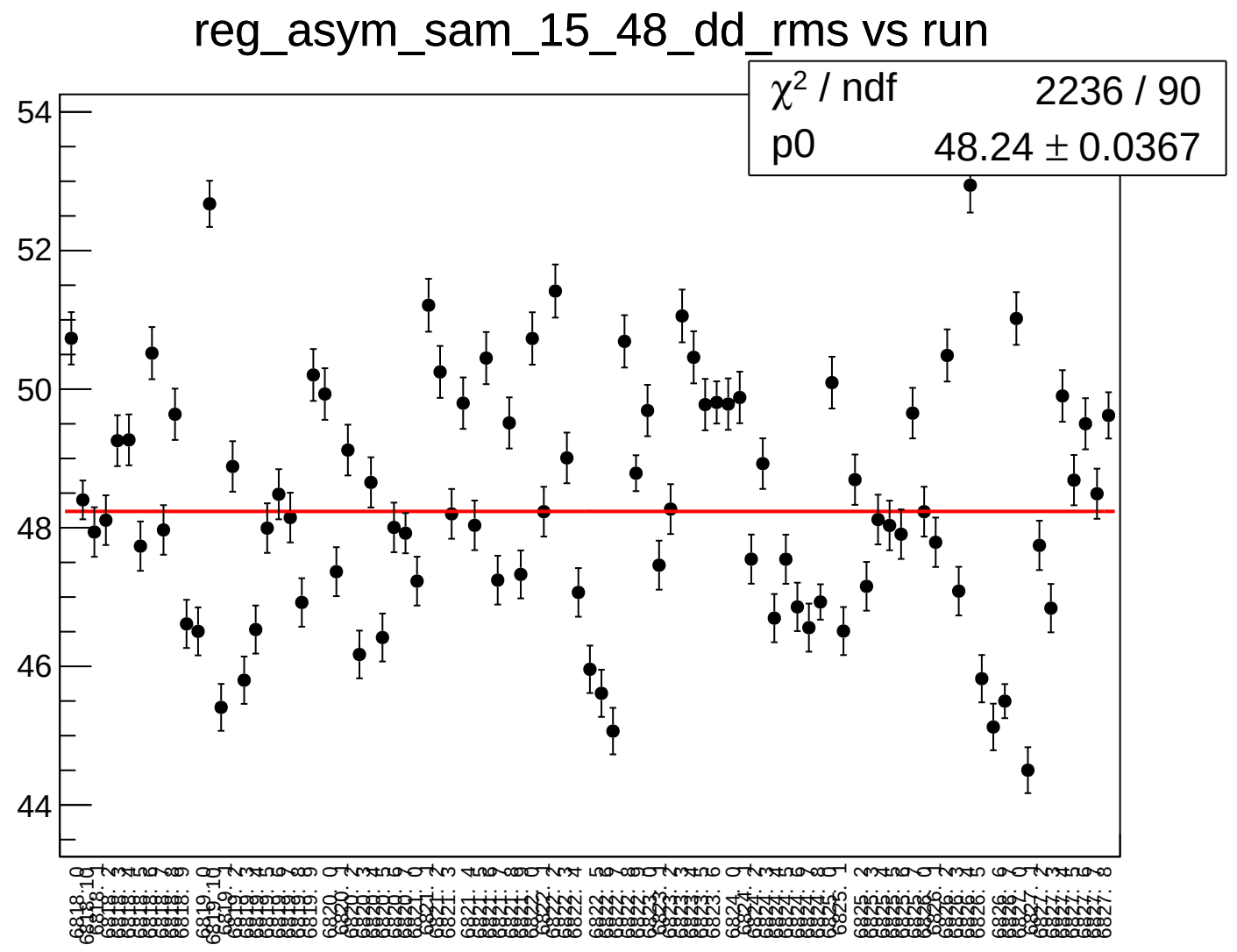

asym_sam_3726_avg_mean vs run
χ^2 / ndf 75.19 / 90
p0 1074 ± 740.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 1748
Std Dev 1715
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

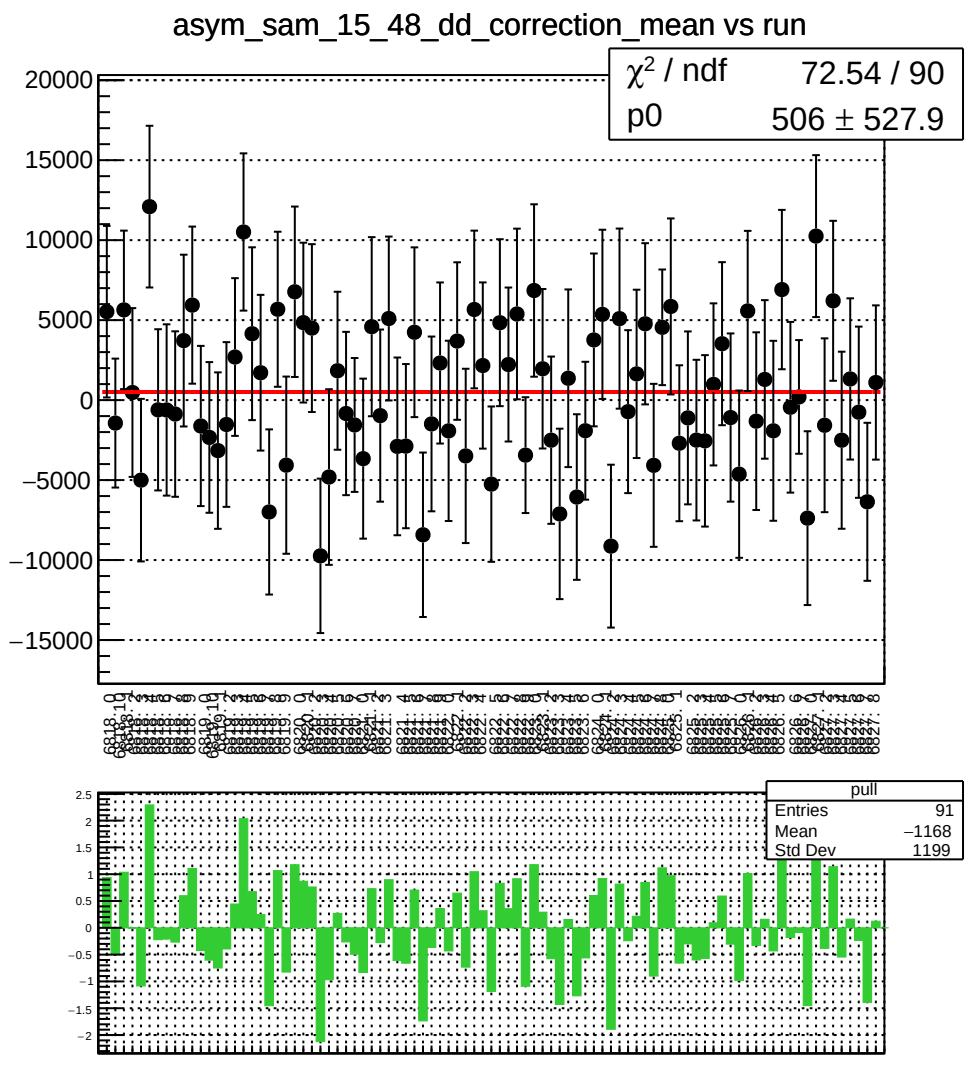

pull1D
Entries 91
Mean −0.001337
Std Dev 0.909
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

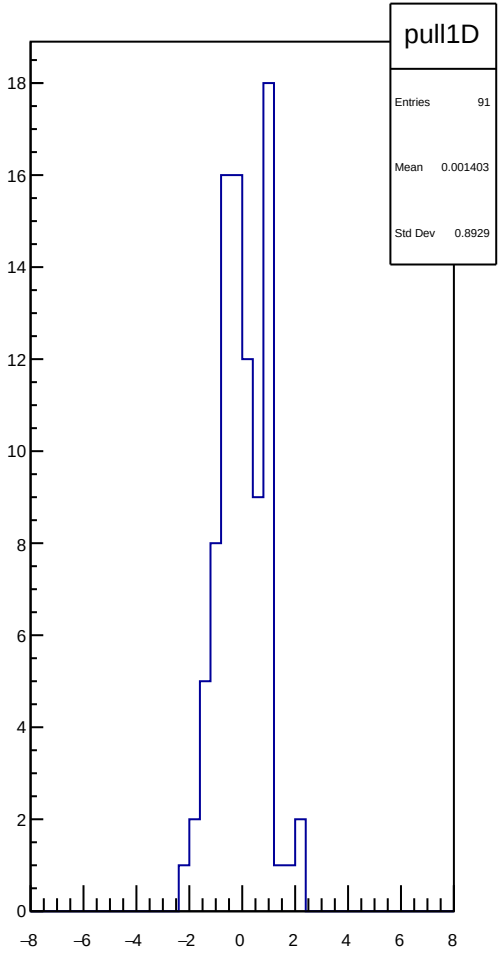

asym_sam_3726_avg_rms vs run
χ² / ndf 5684 / 90
p0 687.4 ± 0.5235
800
750
700
650
600

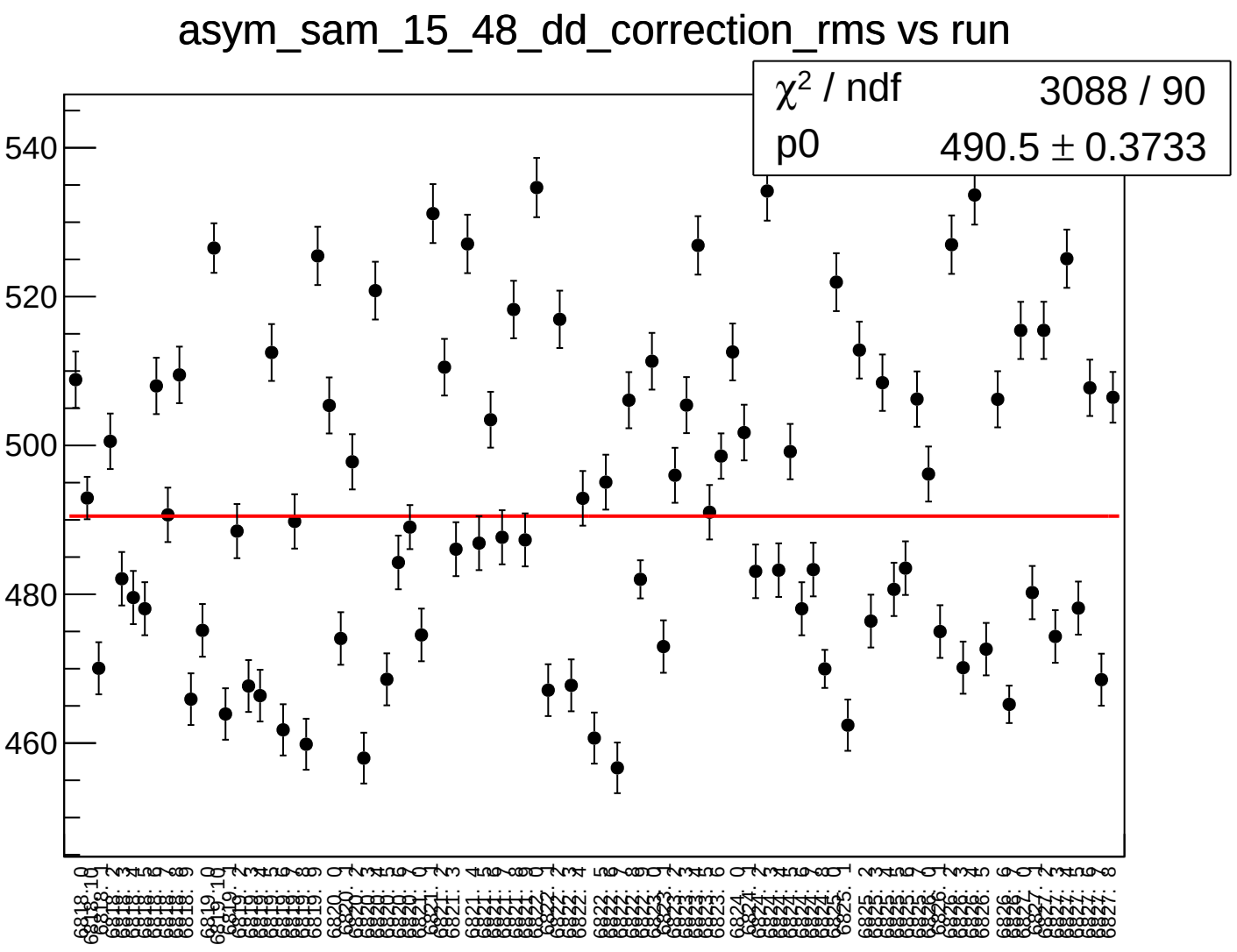

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 74.65 / 90
p0 28.97 ± 51.9
pull
Entries 91
Mean −1.897e+04
Std Dev 1.902e+04

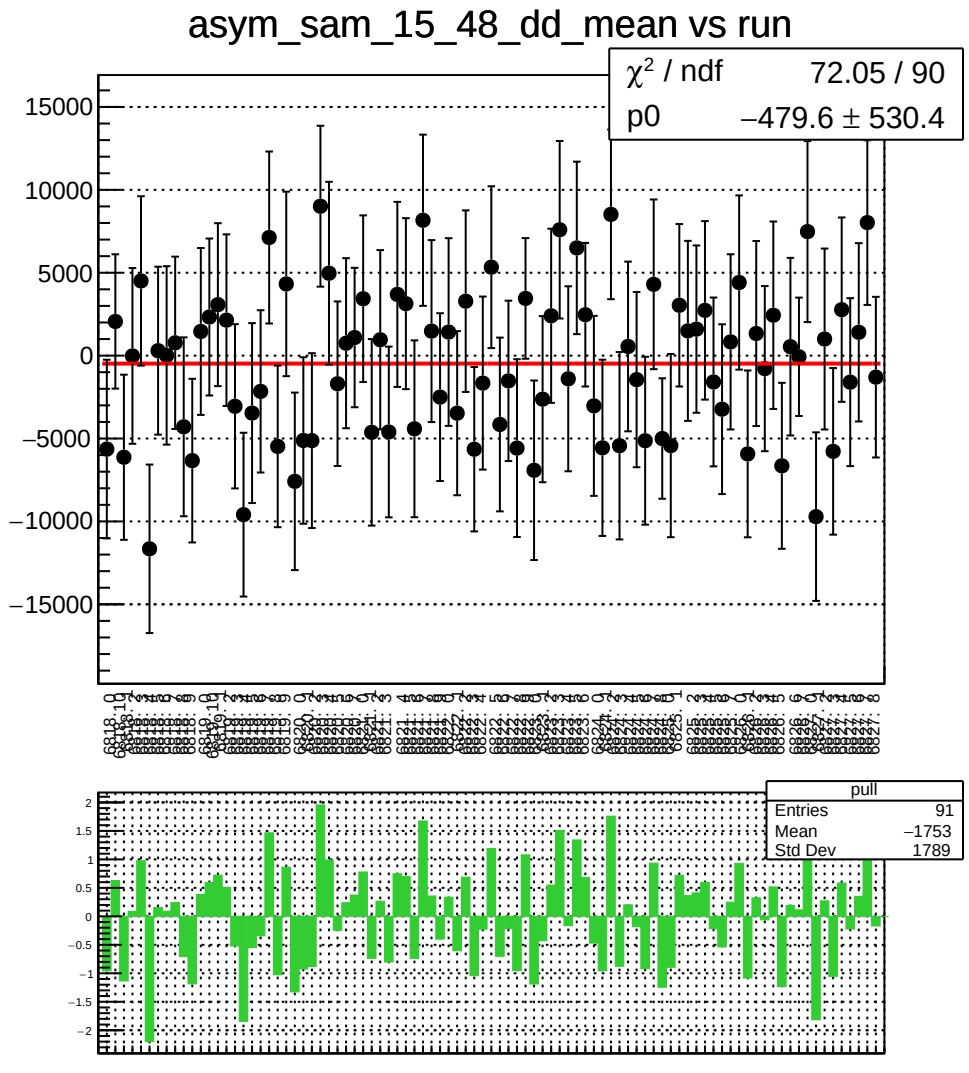

pull1D
Entries 91
Mean −0.0001998
Std Dev 0.9057

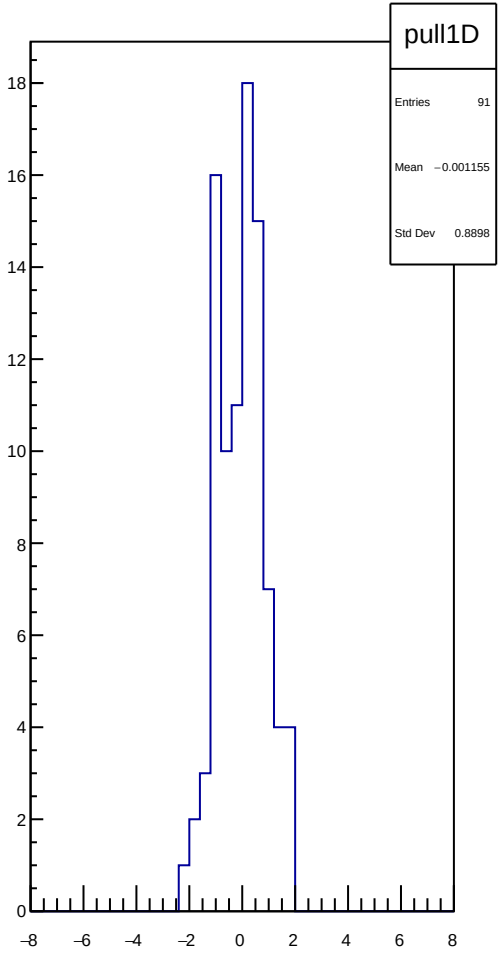

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2236 / 90
p0 48.24 ± 0.0367
54
52
50
48
46
44

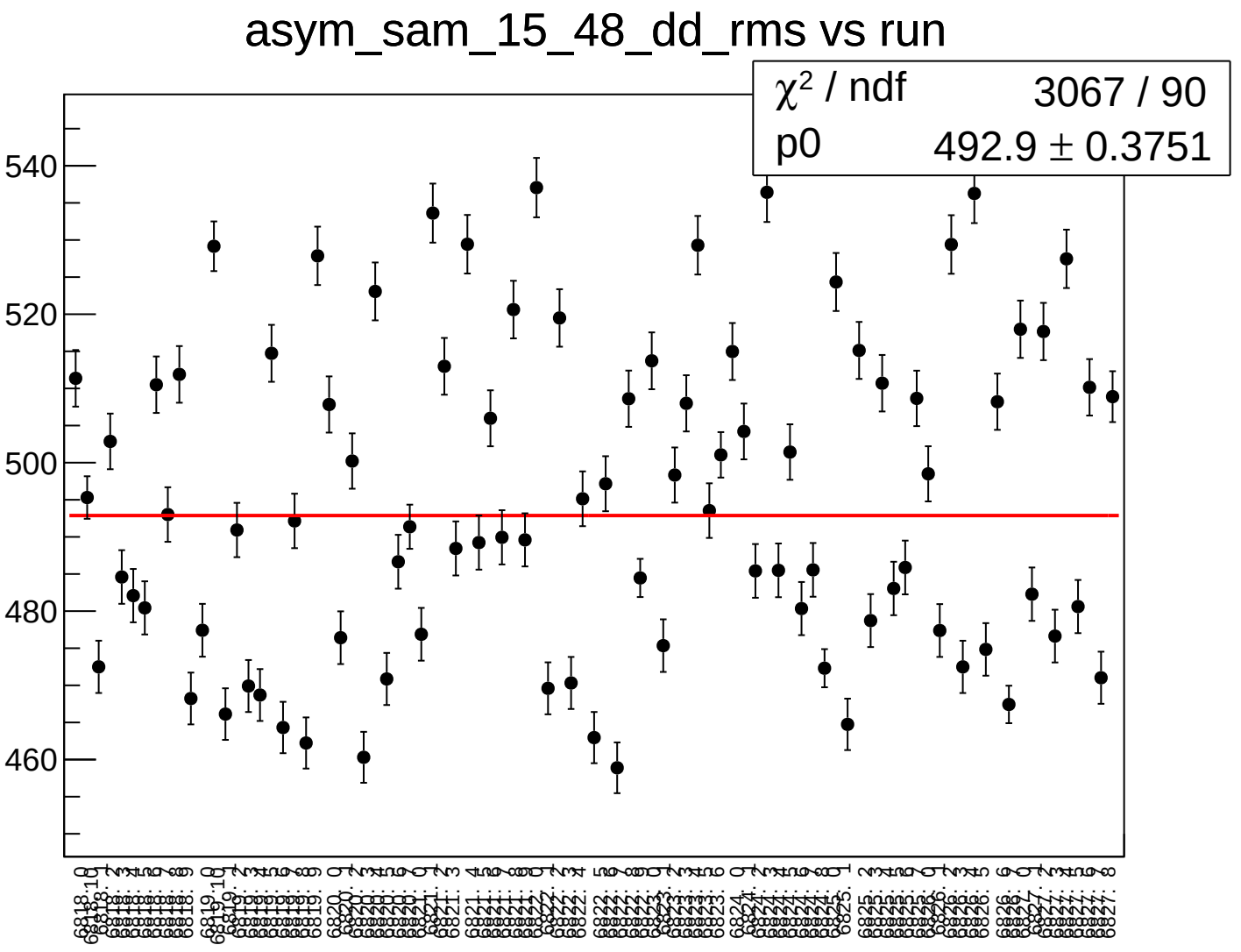

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 72.54 / 90
p0 506 ± 527.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −1168
Std Dev 1199
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

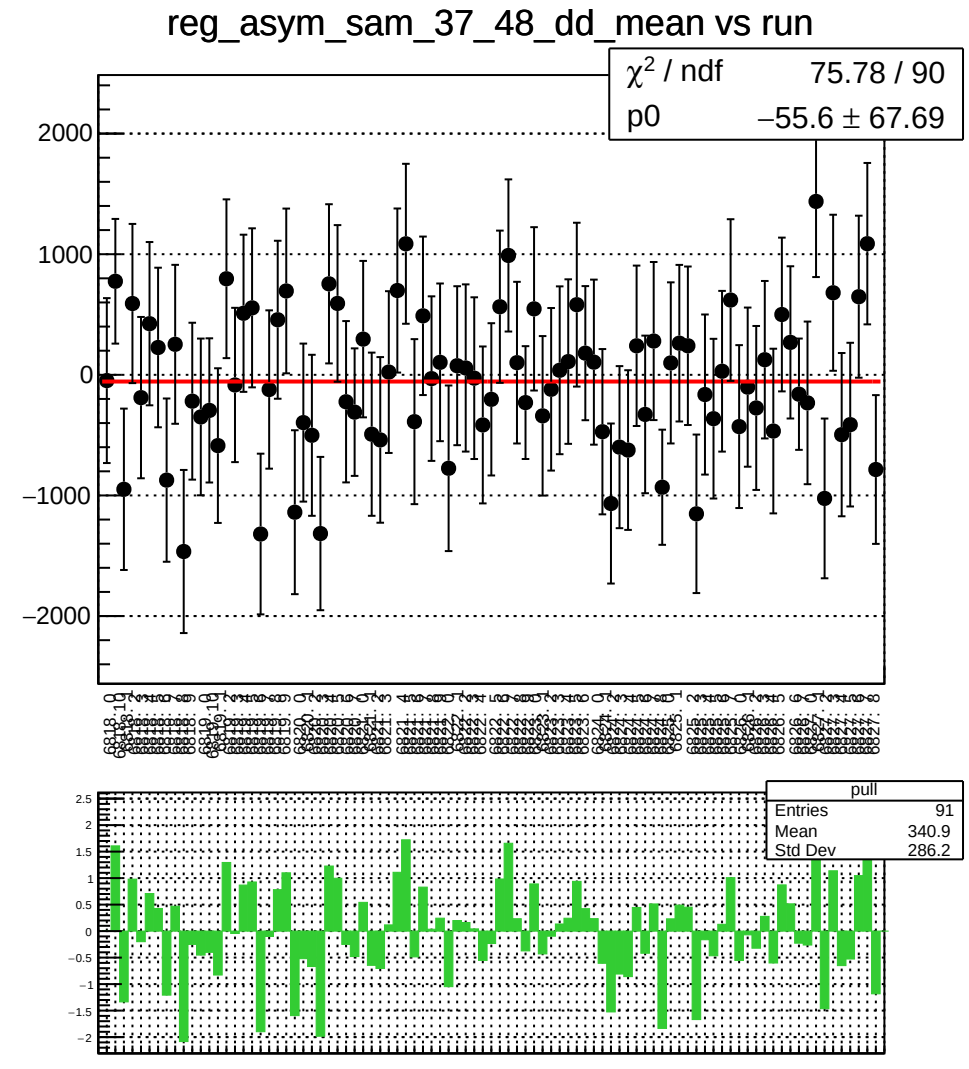

pull1D
Entries 91
Mean 0.001403
Std Dev 0.8929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

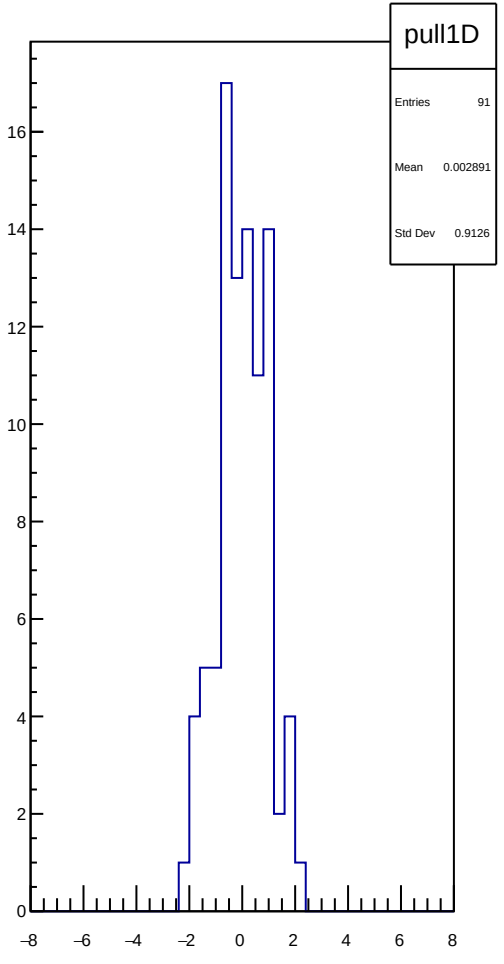

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 3088 / 90
p0 490.5 ± 0.3733
540
520
500
480
460

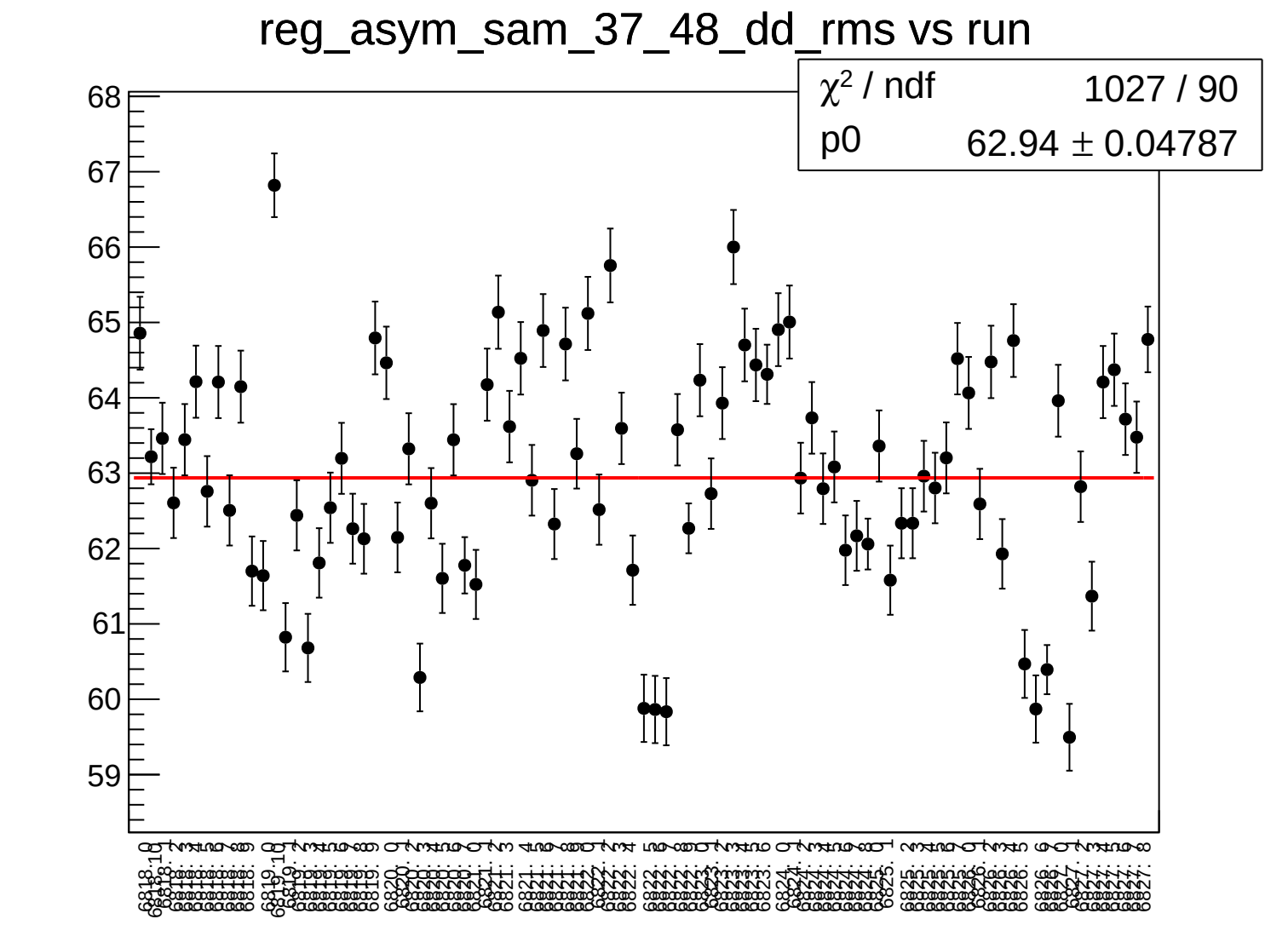

asym_sam_15_48_dd_mean vs run
χ² / ndf 72.05 / 90
p0 −479.6 ± 530.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −1753
Std Dev 1789
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

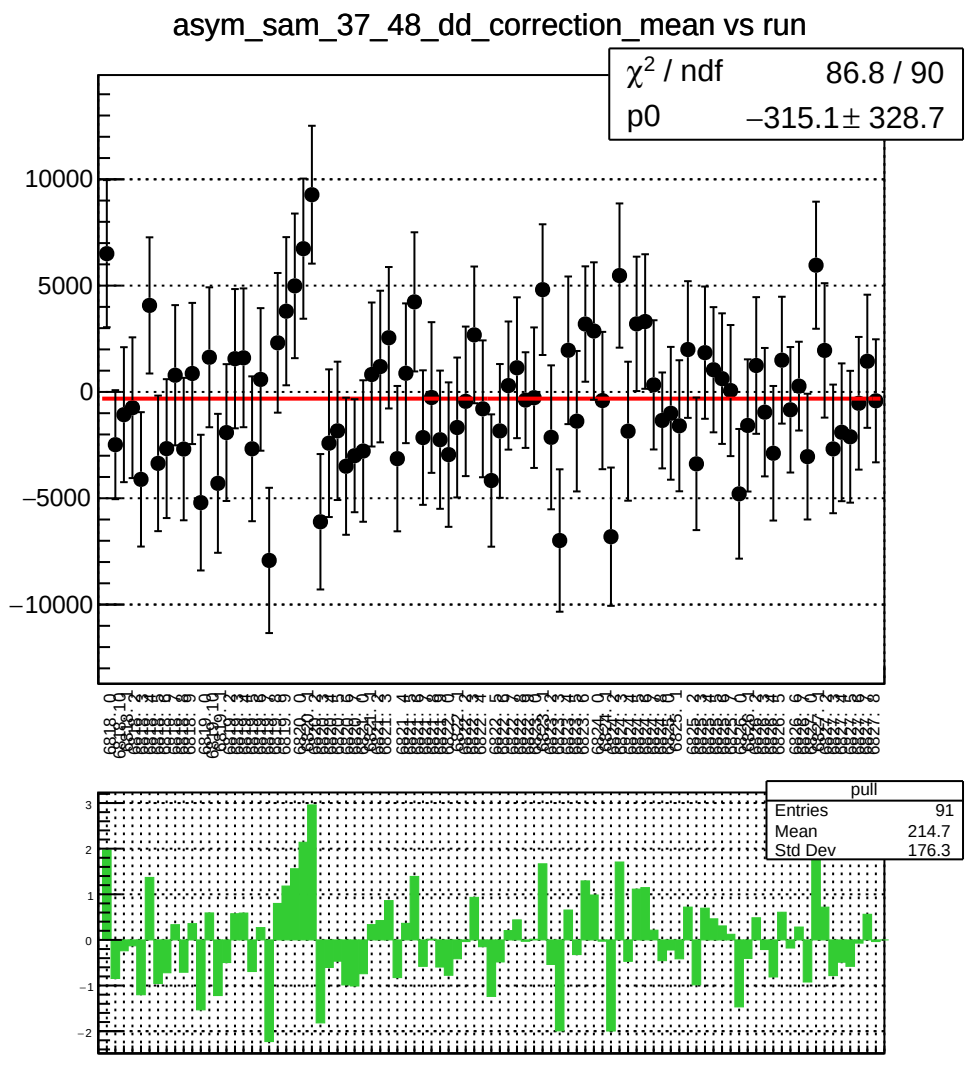

pull1D
Entries 91
Mean −0.001155
Std Dev 0.8898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

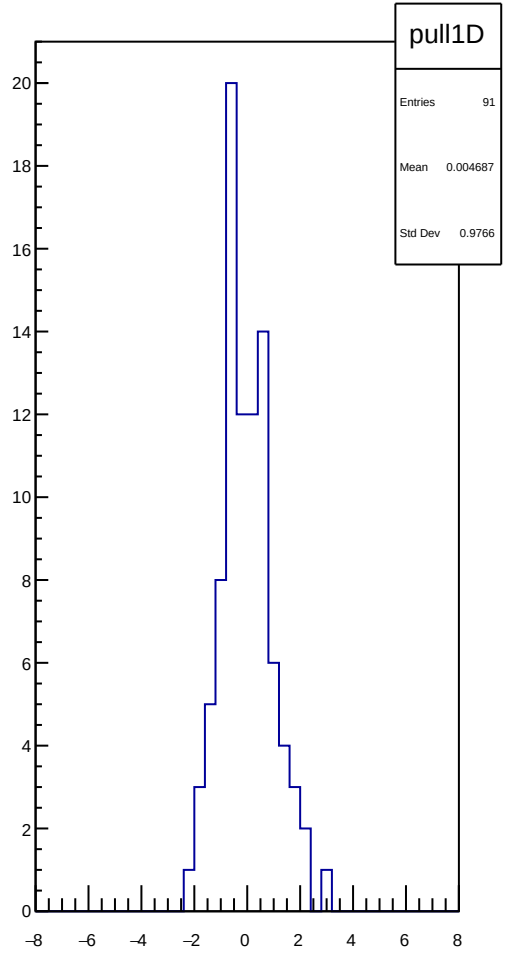

asym_sam_15_48_dd_rms vs run
χ² / ndf 3067 / 90
p0 492.9 ± 0.3751
540
520
500
480
460

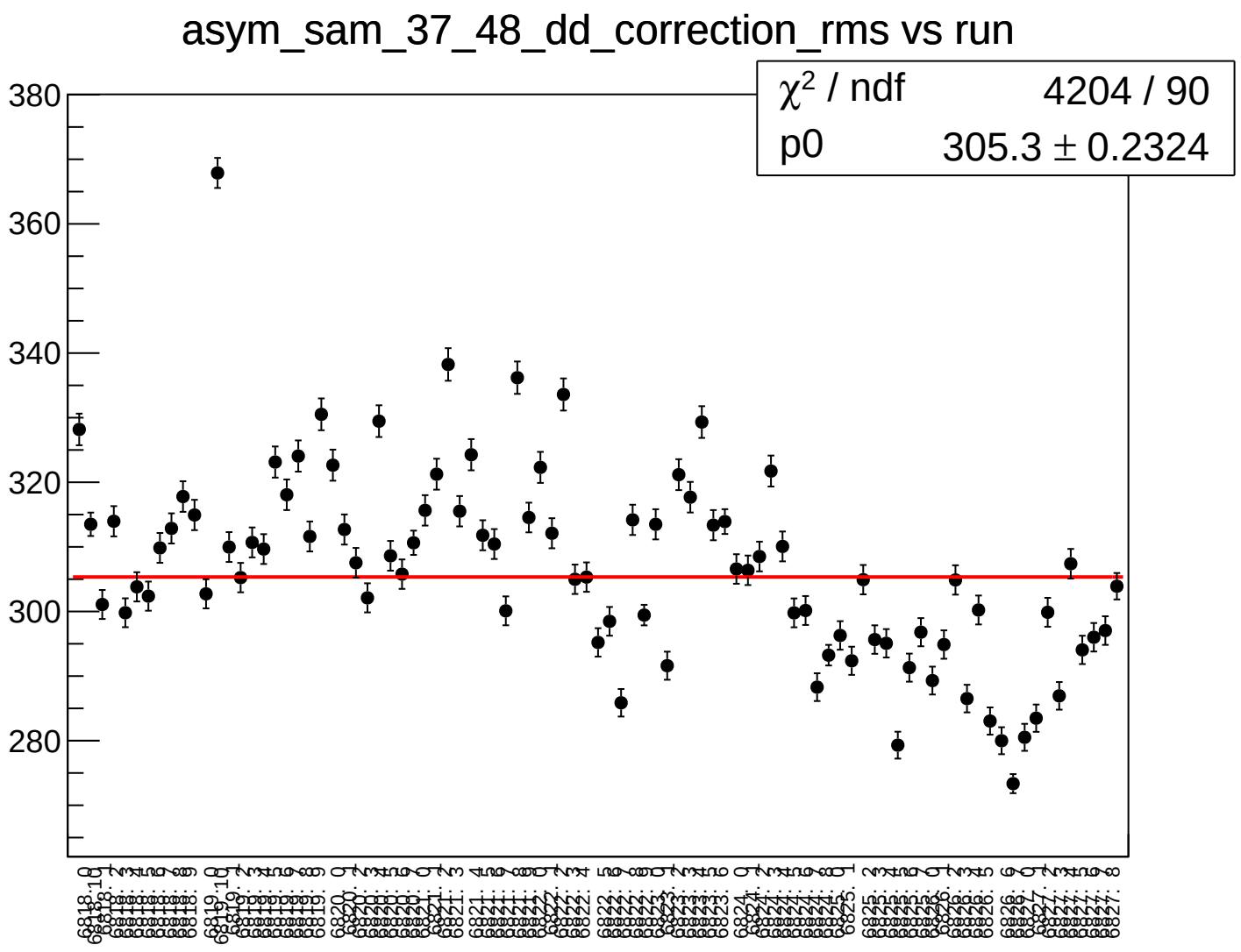

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 75.78 / 90
p0 −55.6 ± 67.69
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 340.9
Std Dev 286.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

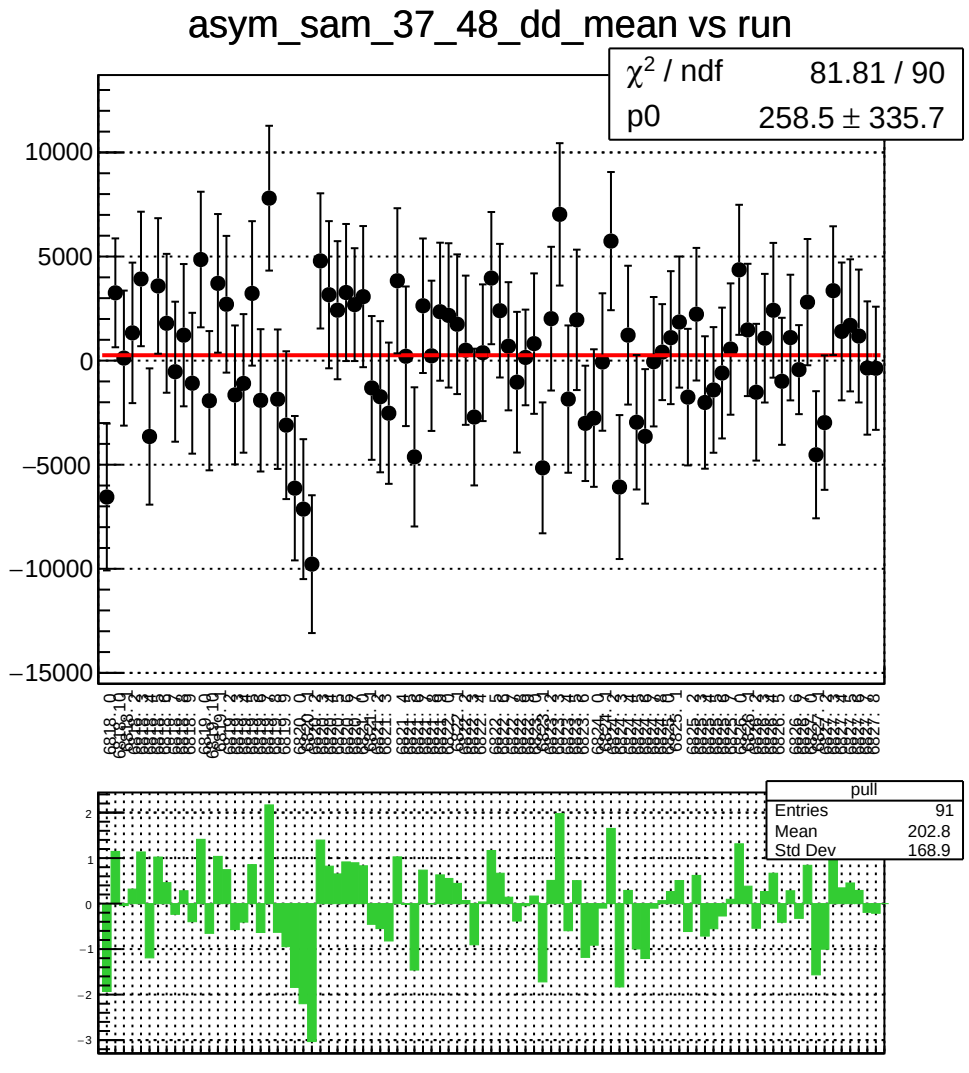

pull1D
Entries 91
Mean 0.002891
Std Dev 0.9126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

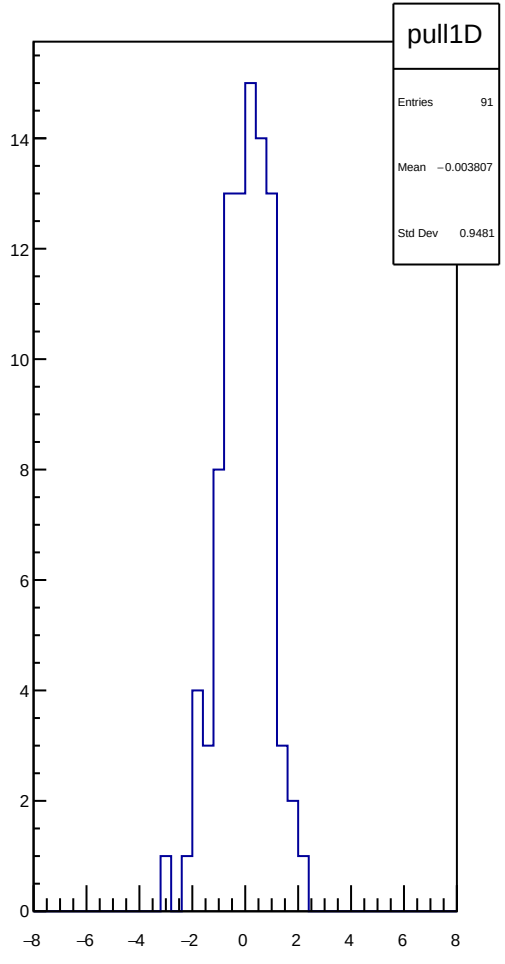

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1027 / 90
p0 62.94 ± 0.04787
68
67
66
65
64
63
62
61
60
59

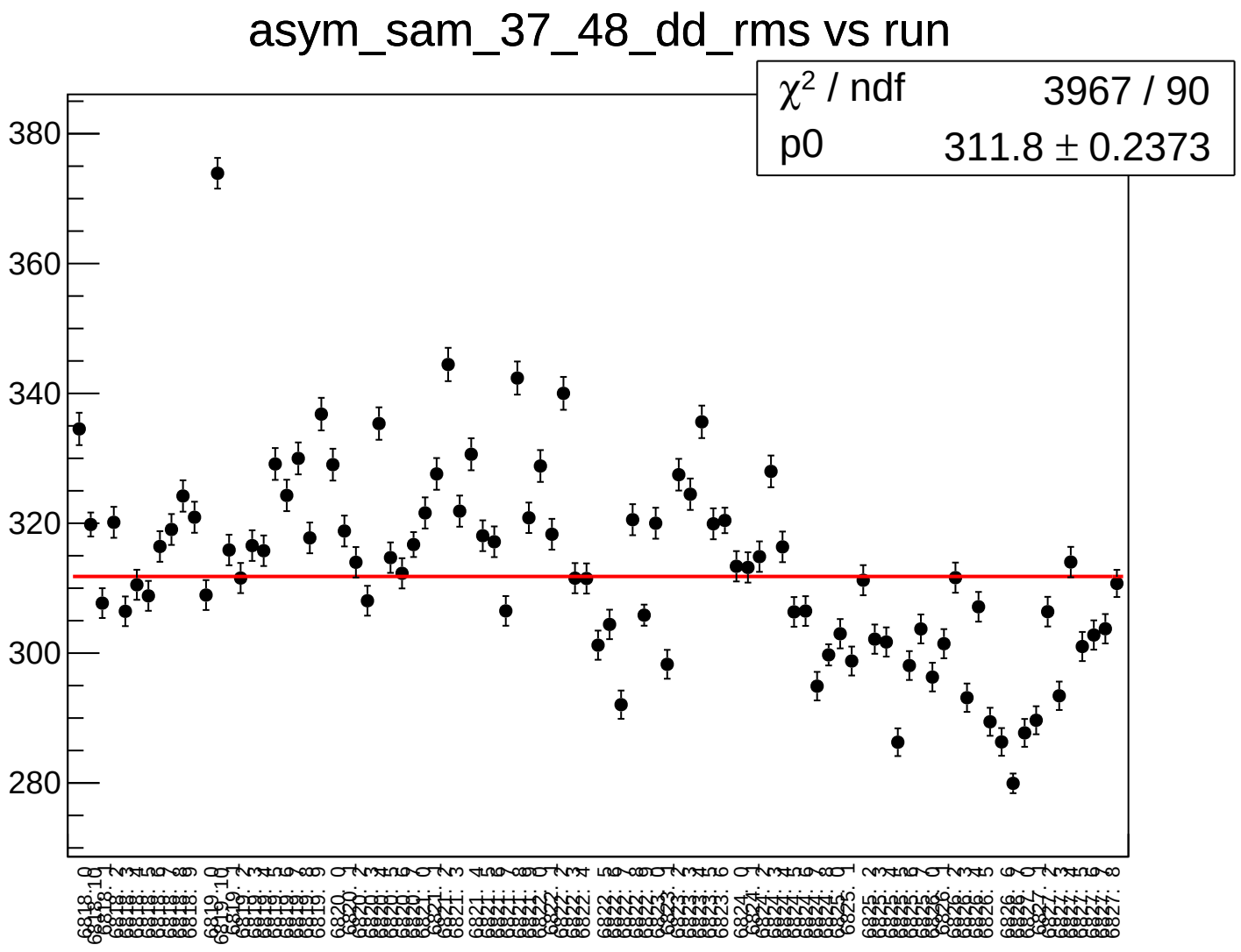

asym_sam_37_48_dd_correction_mean vs run
χ^2 / ndf 86.8 / 90
p0 −315.1± 328.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 214.7
Std Dev 176.3
3
2
1
0
−1
−2

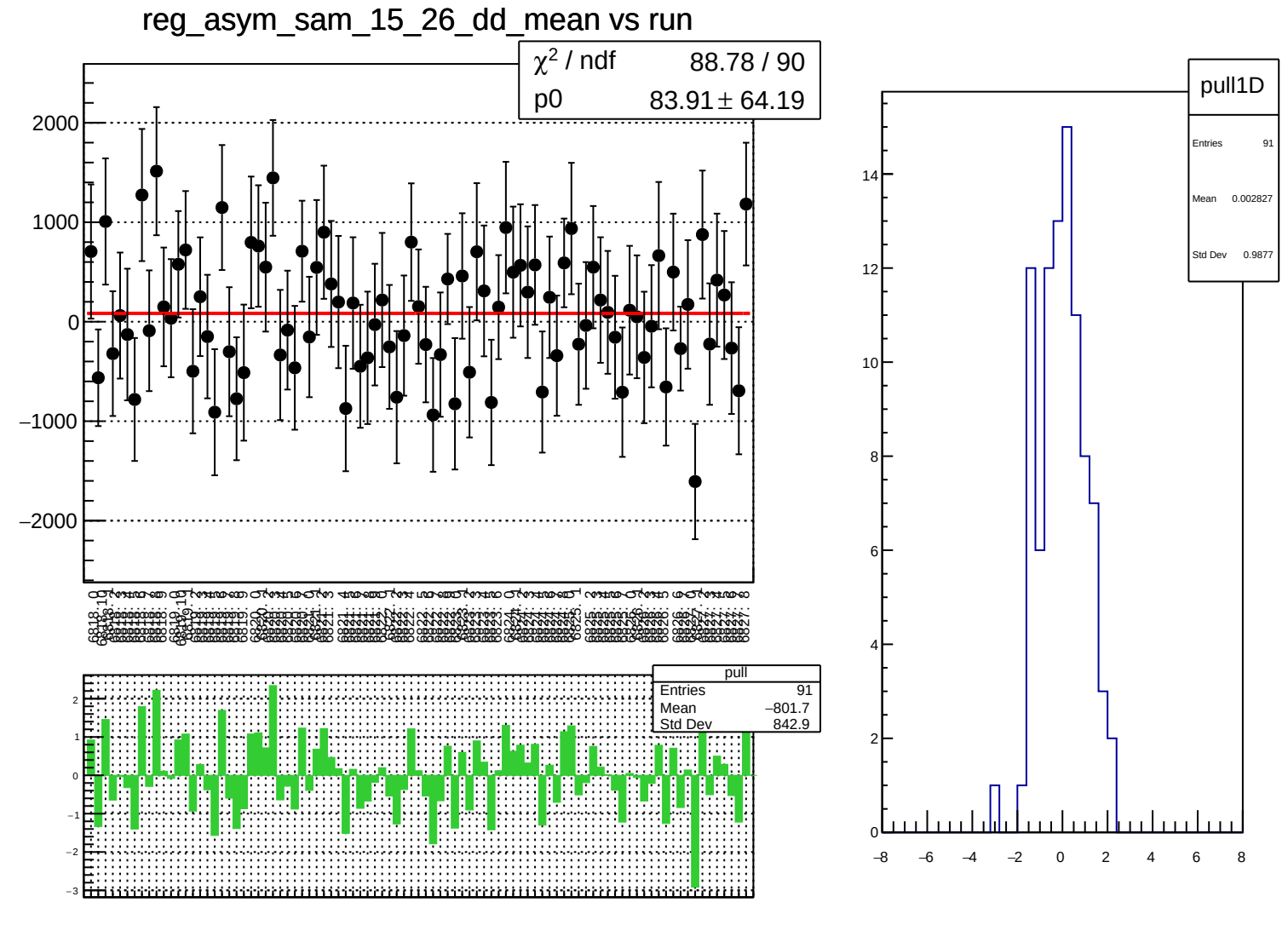

pull1D
Entries 91
Mean 0.004687
Std Dev 0.9766
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

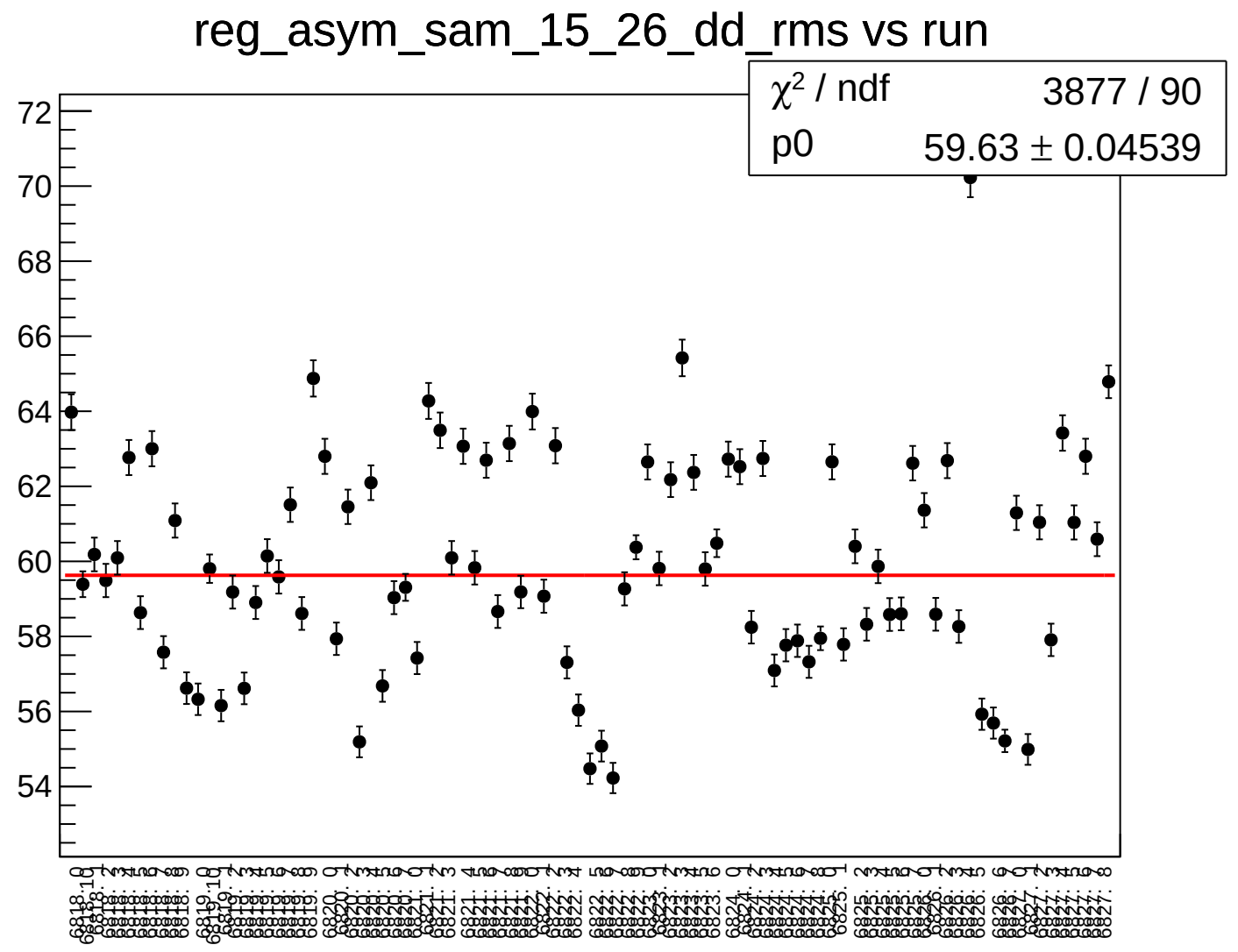

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 4204 / 90
p0 305.3 ± 0.2324
380
360
340
320
300
280

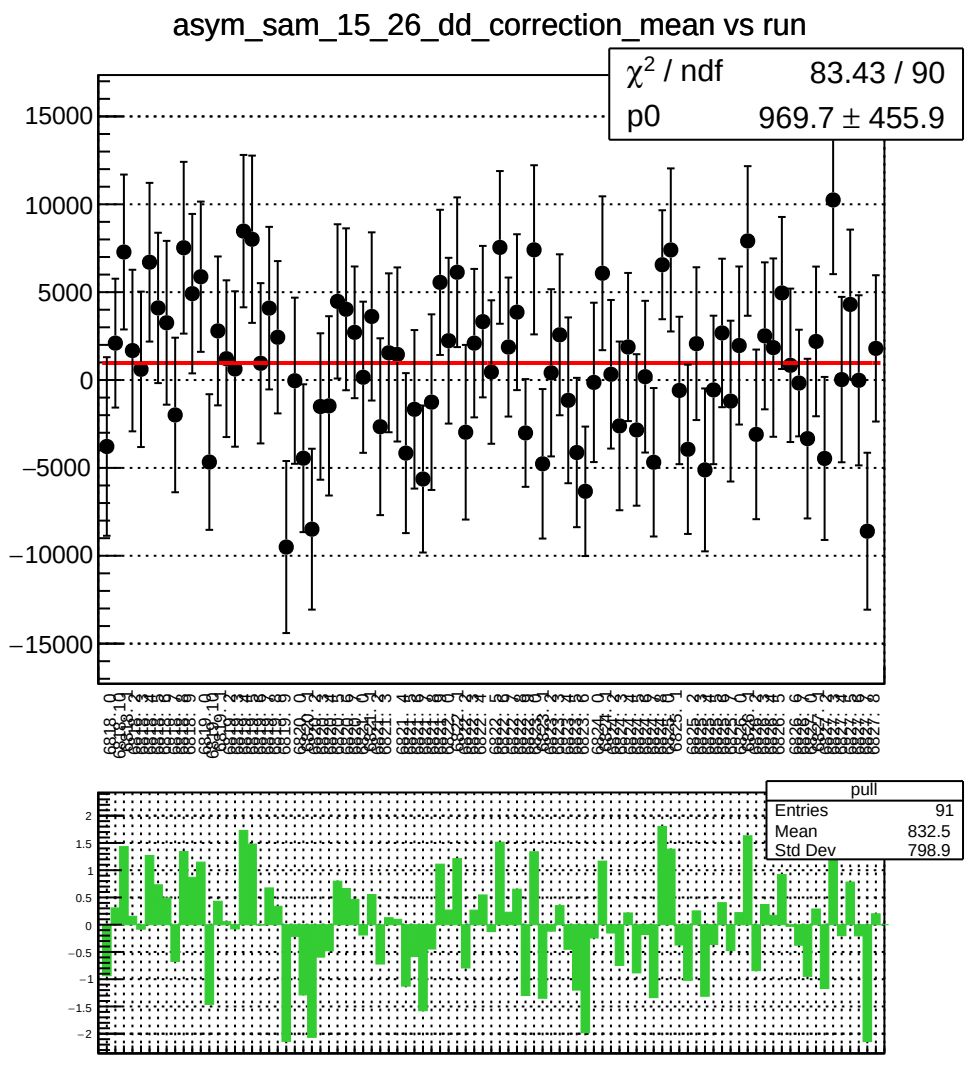

asym_sam_37_48_dd_mean vs run
χ² / ndf 81.81 / 90
p0 258.5 ± 335.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 202.8
Std Dev 168.9
2
1
0
−1
−2
−3

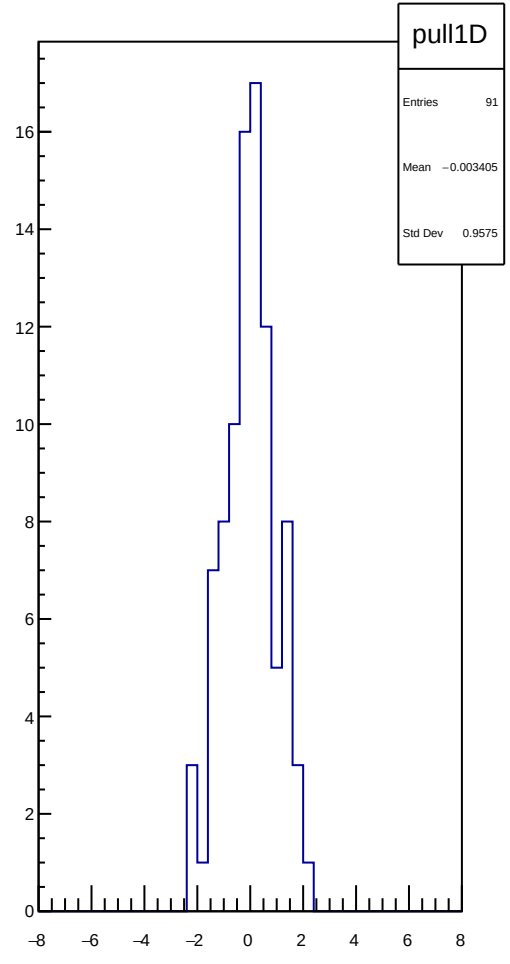

pull1D
Entries 91
Mean −0.003807
Std Dev 0.9481
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

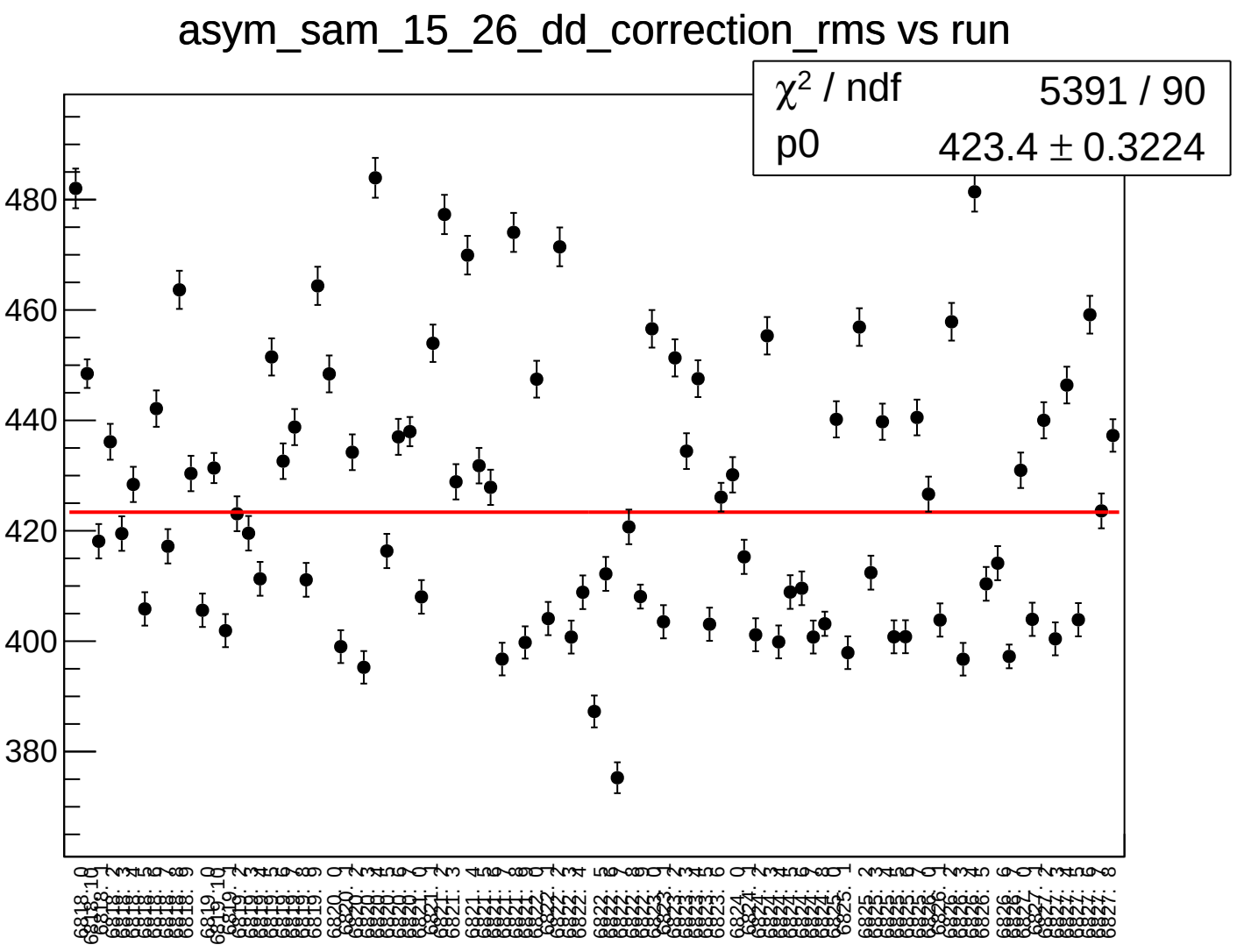

asym_sam_37_48_dd_rms vs run
χ² / ndf 3967 / 90
p0 311.8 ± 0.2373
380
360
340
320
300
280

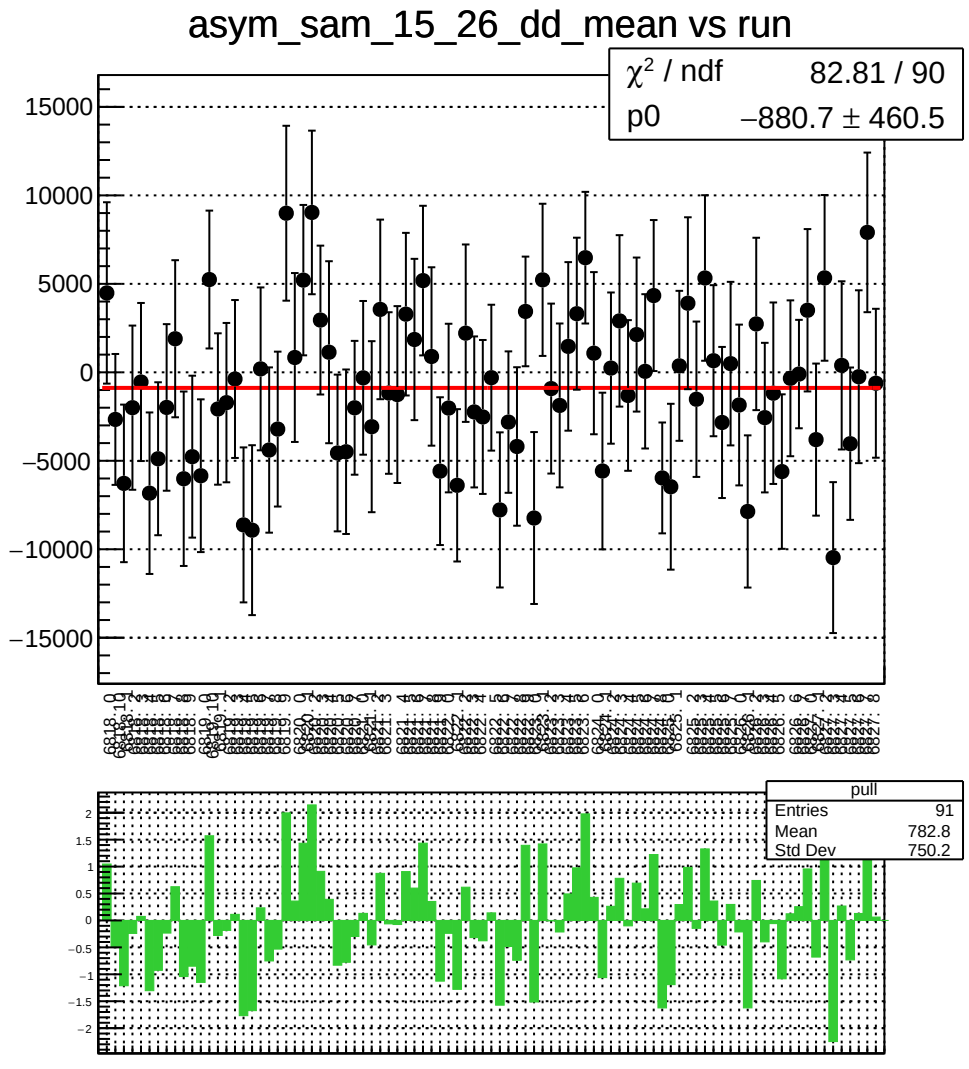

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.78 / 90
p0 83.91 ± 64.19
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −801.7
Std Dev 842.9
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.002827
Std Dev 0.9877
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

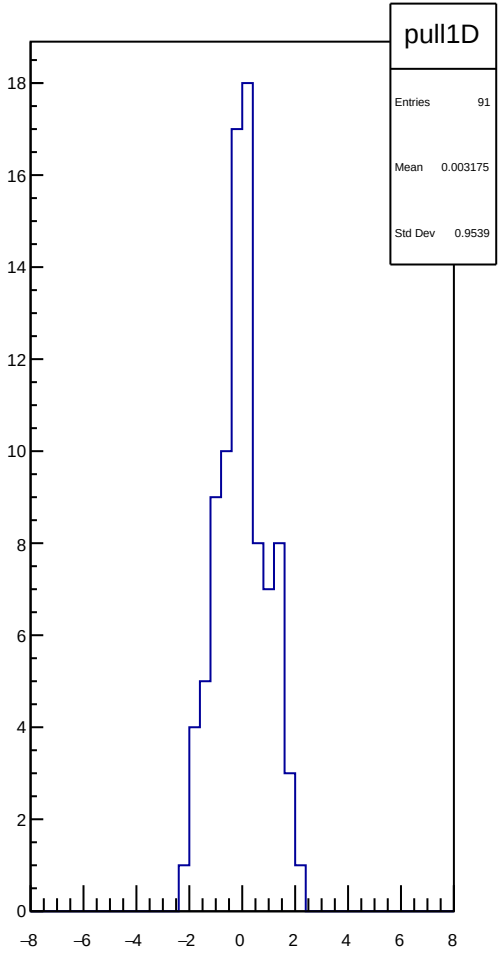

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 3877 / 90
p0 59.63 ± 0.04539
72
70
68
66
64
62
60
58
56
54

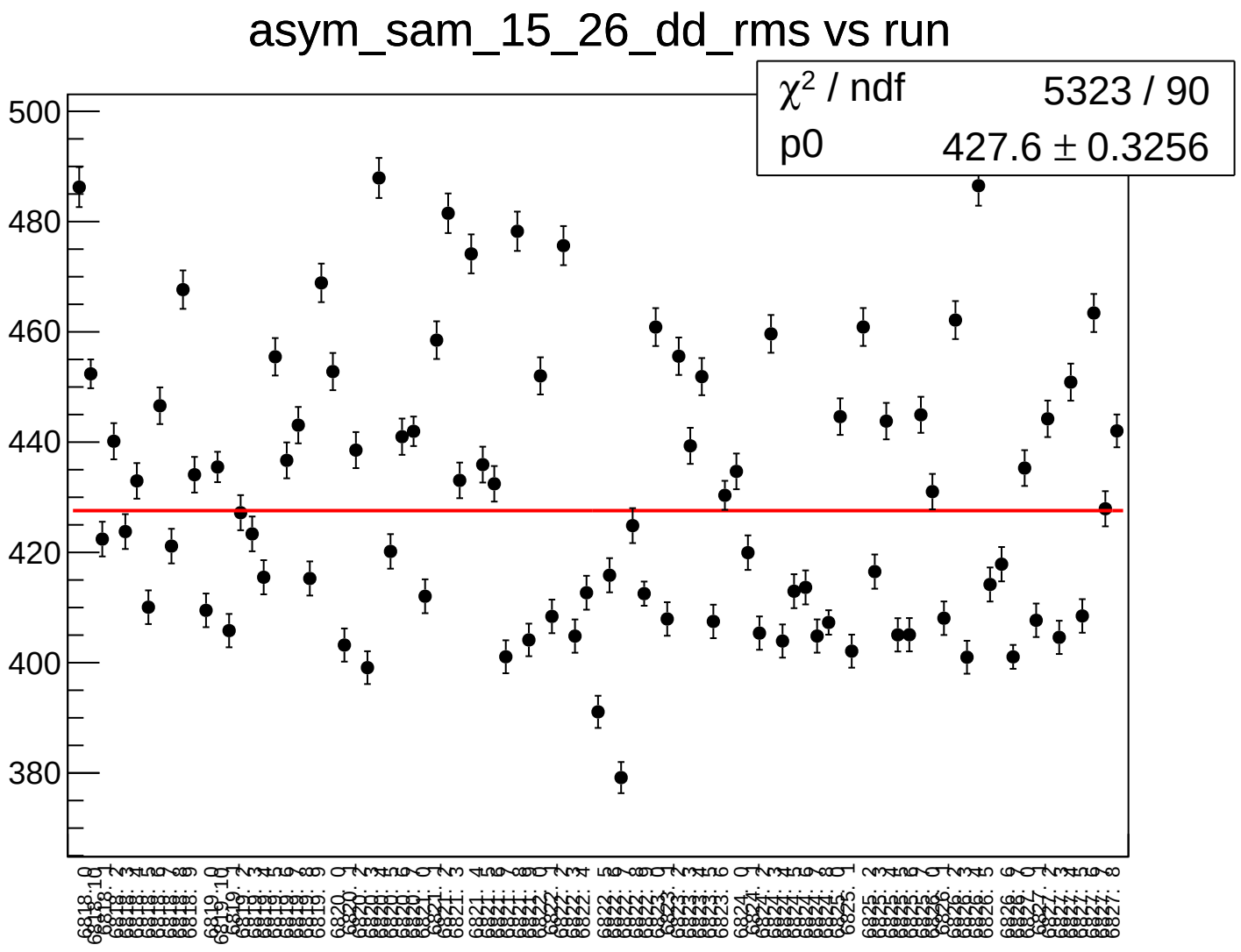

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 83.43 / 90
p0 969.7 ± 455.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 832.5
Std Dev 798.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

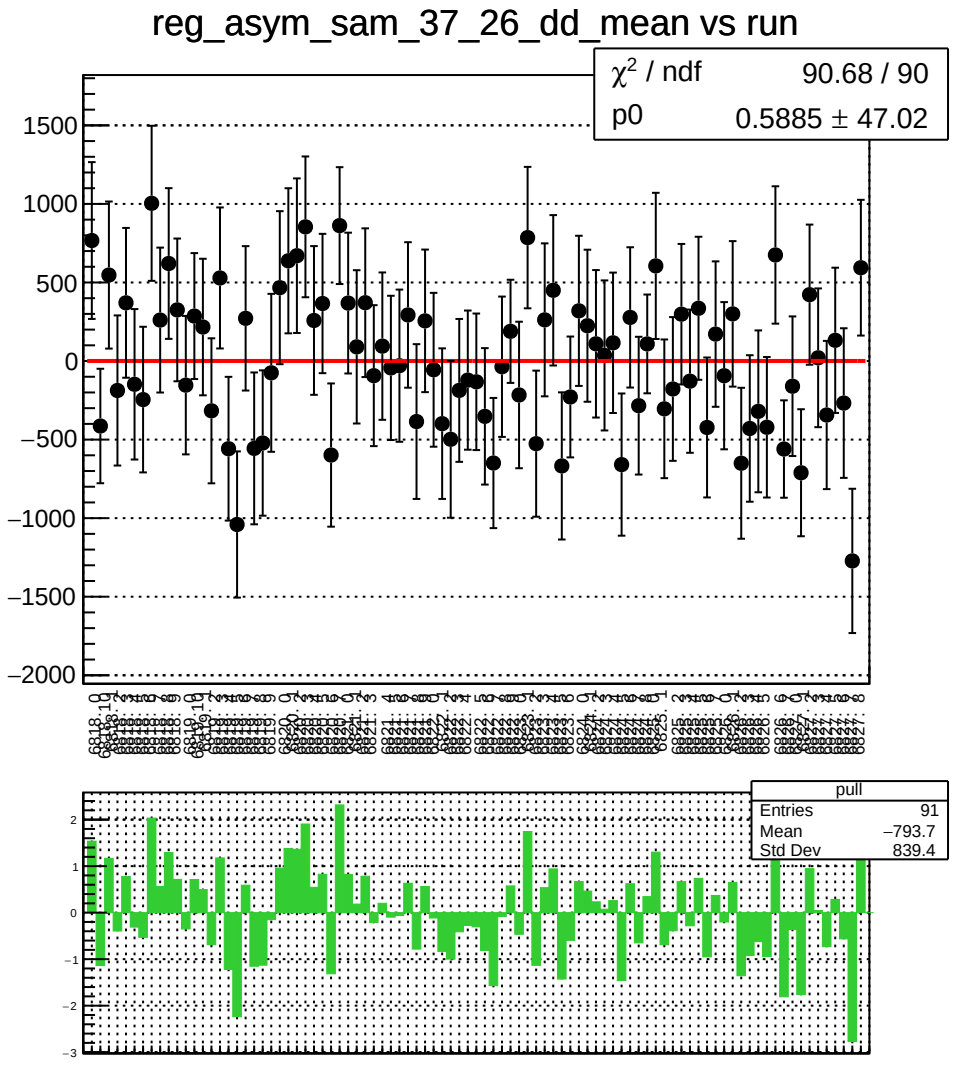

pull1D
Entries 91
Mean −0.003405
Std Dev 0.9575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

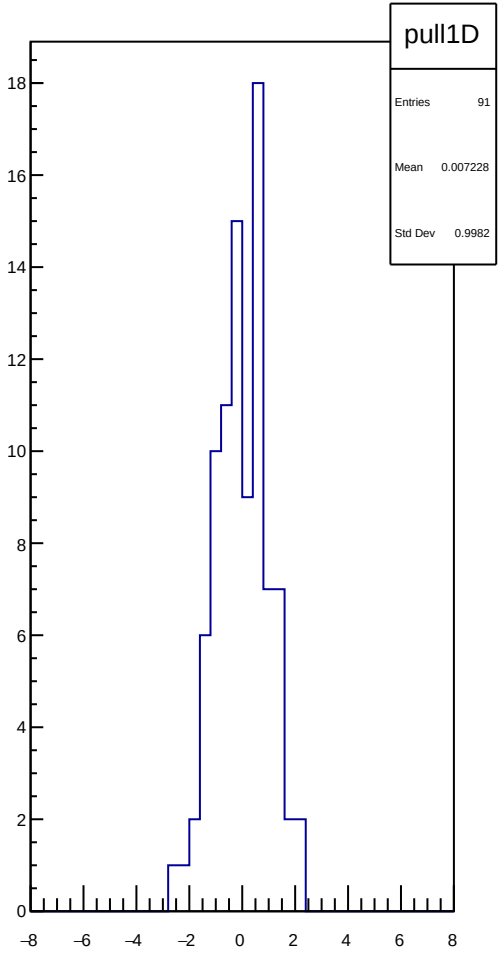

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 5391 / 90
p0 423.4 ± 0.3224
480
460
440
420
400
380

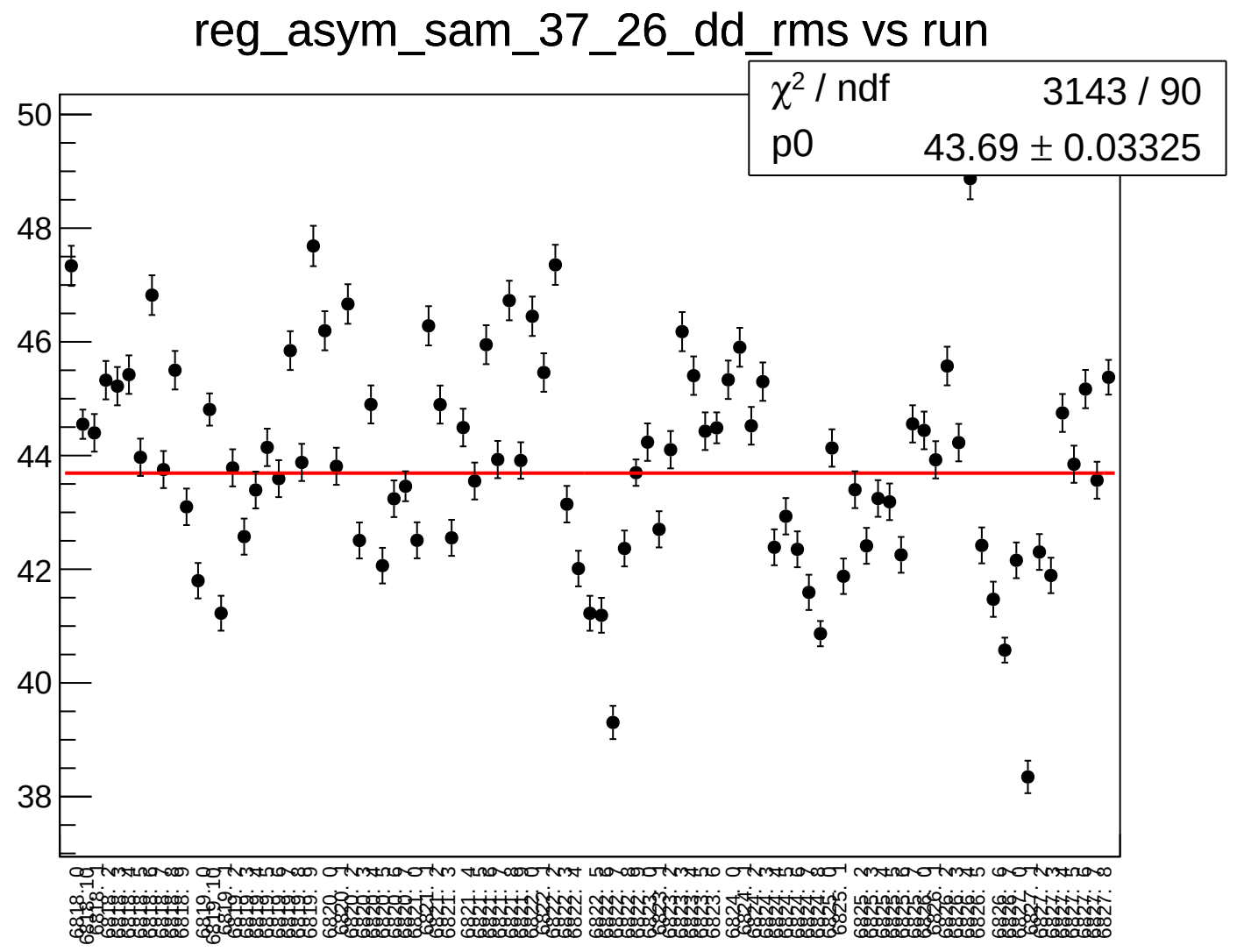

asym_sam_15_26_dd_mean vs run
χ² / ndf 82.81 / 90
p0 −880.7 ± 460.5
pull
Entries 91
Mean 782.8
Std Dev 750.2

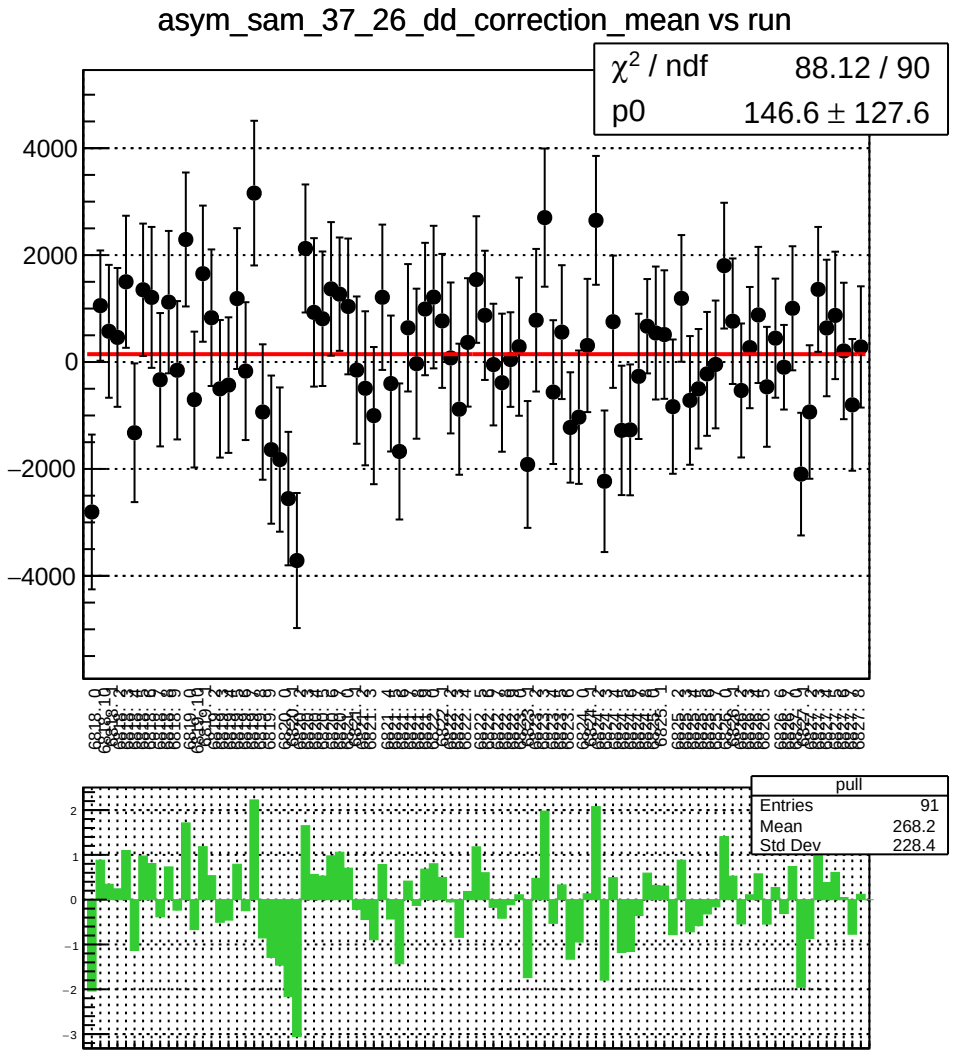

pull1D
Entries 91
Mean 0.003175
Std Dev 0.9539

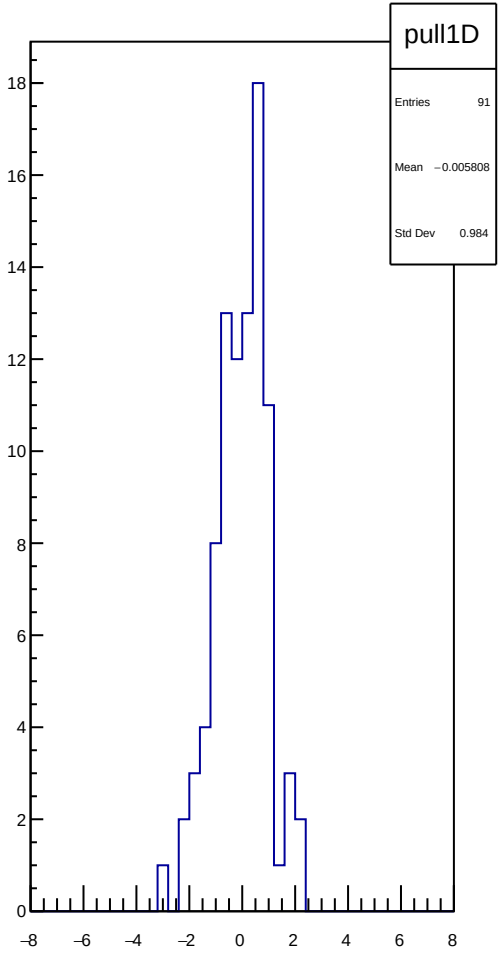

asym_sam_15_26_dd_rms vs run
χ² / ndf 5323 / 90
p0 427.6 ± 0.3256
500
480
460
440
420
400
380

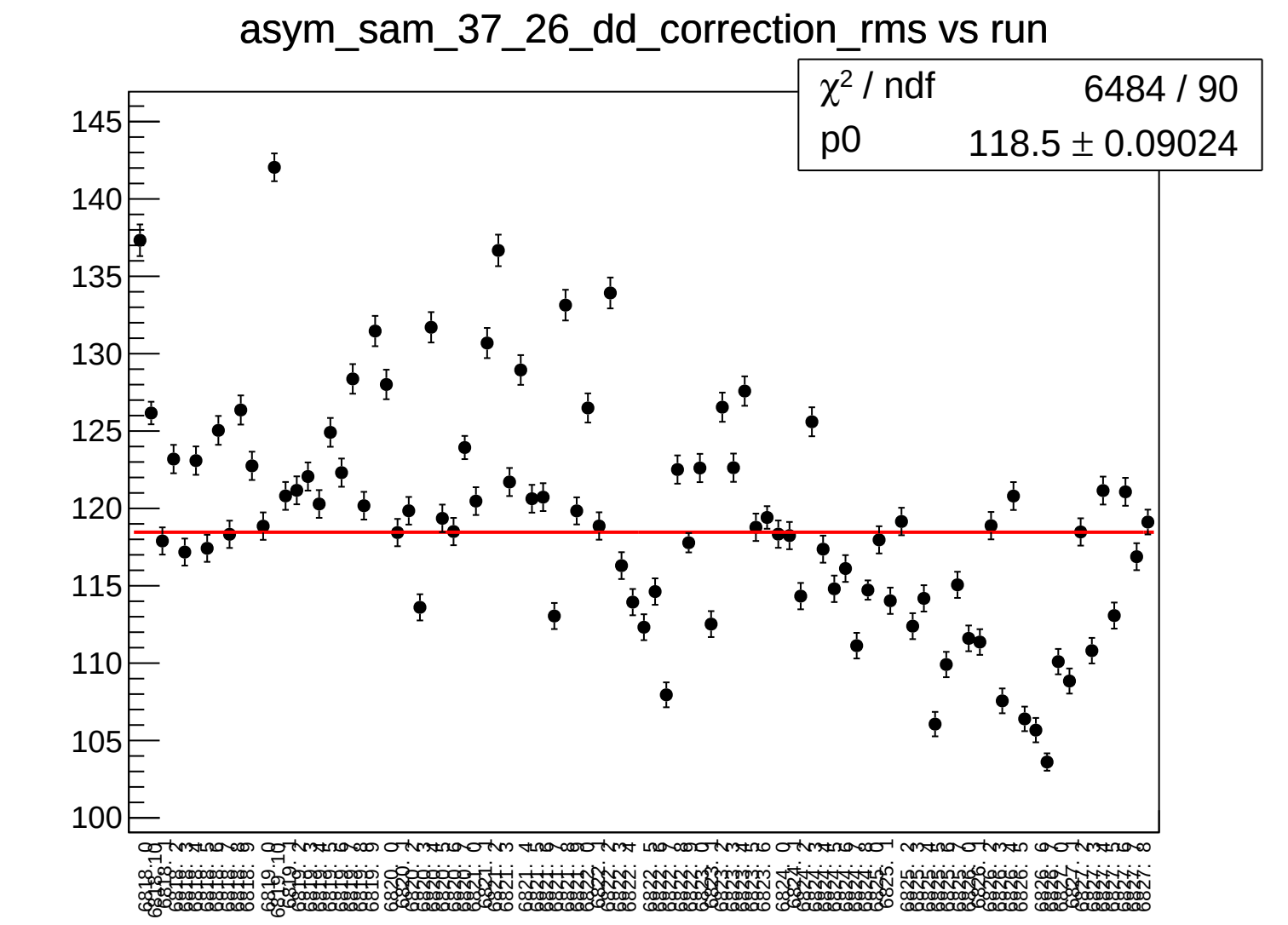

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.68 / 90
p0 0.5885 ± 47.02
pull
Entries 91
Mean −793.7
Std Dev 839.4

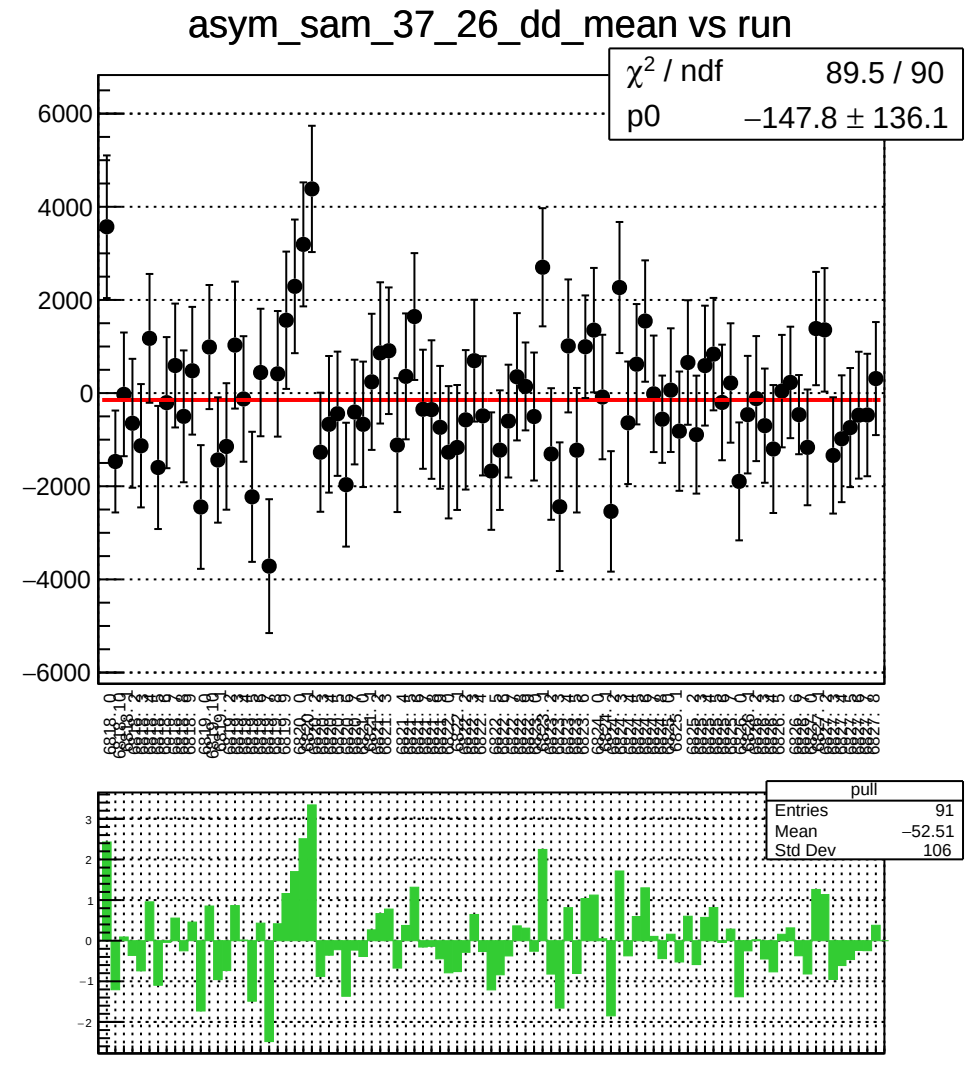

pull1D
Entries 91
Mean 0.007228
Std Dev 0.9982

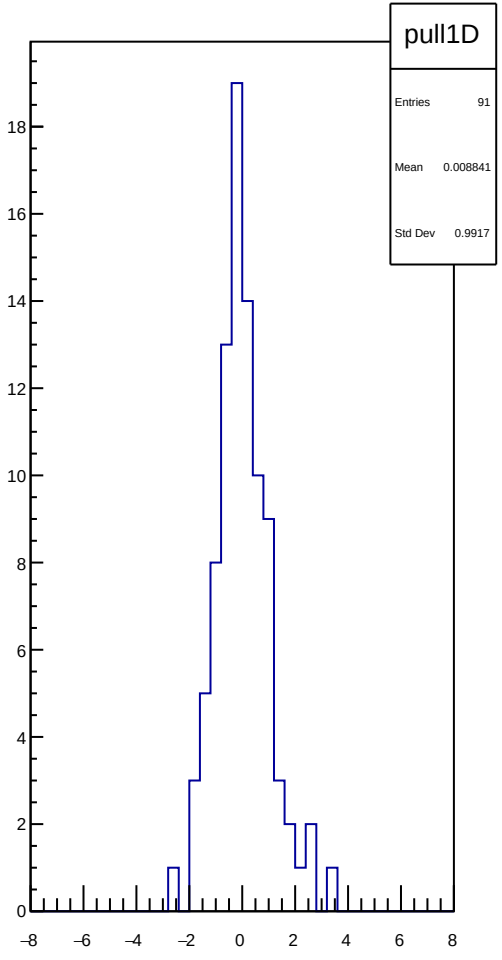

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3143 / 90
p0 43.69 ± 0.03325
50
48
46
44
42
40
38

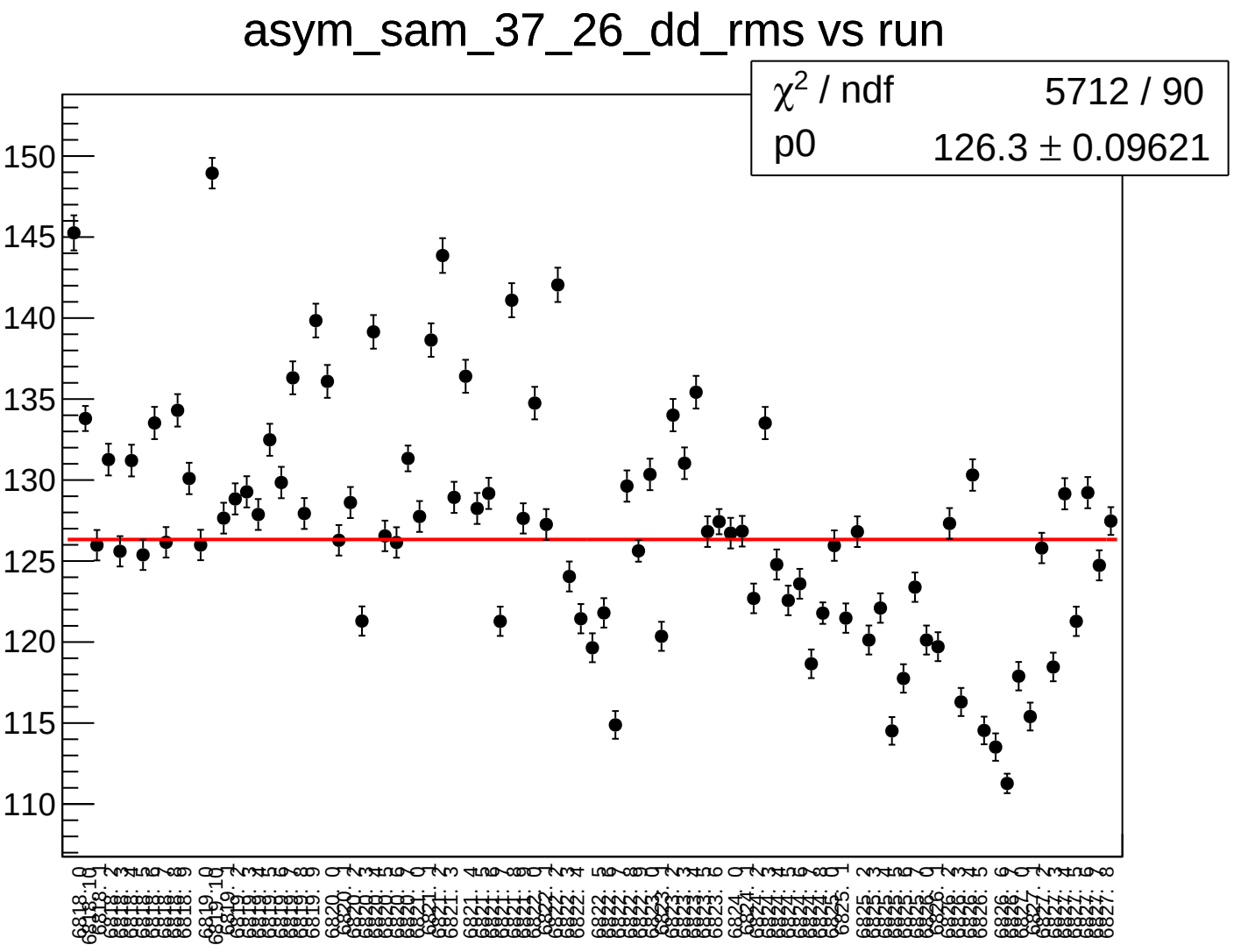

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 88.12 / 90
p0 146.6 ± 127.6
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 268.2
Std Dev 228.4
2
1
0
−1
−2
−3

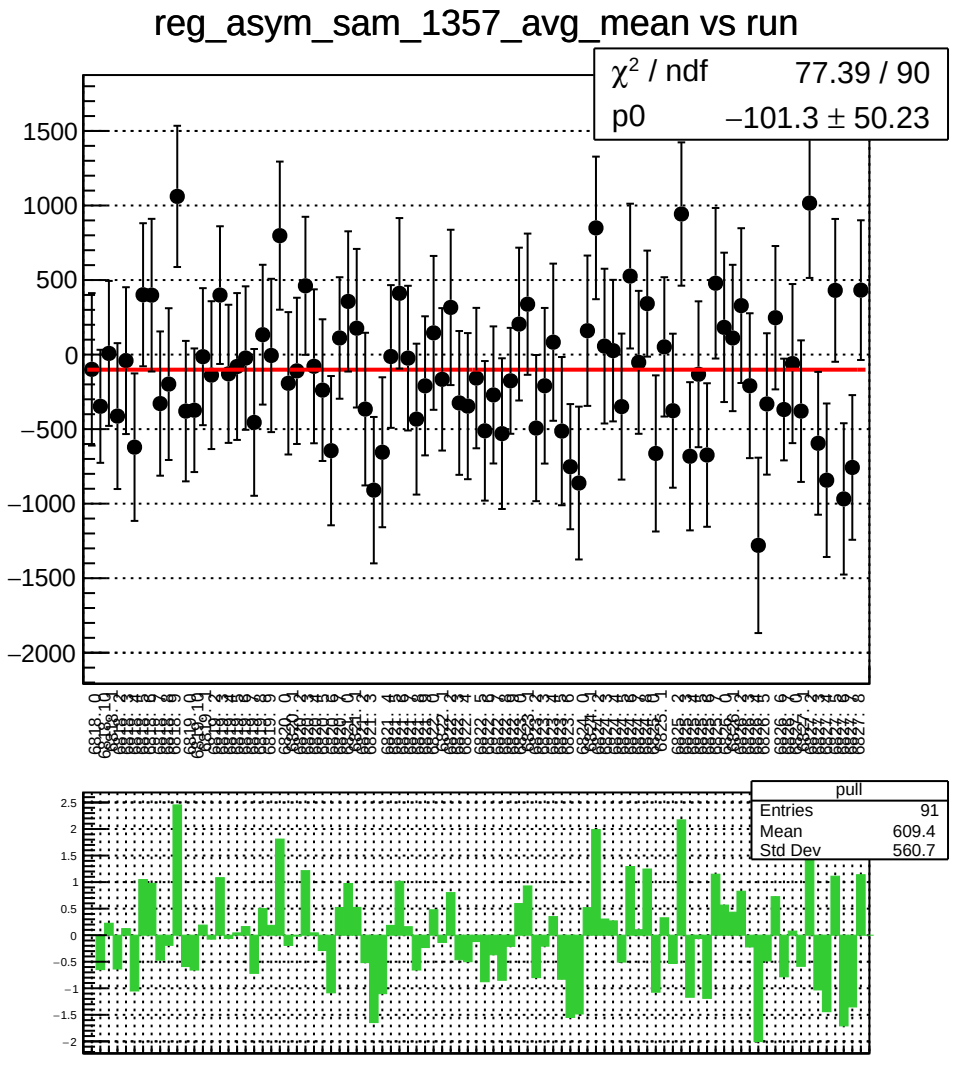

pull1D
Entries 91
Mean −0.005808
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

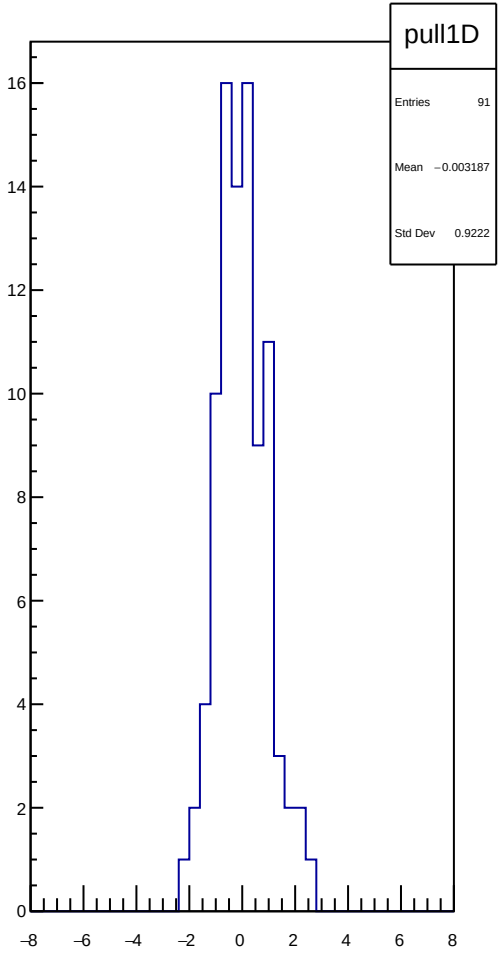

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 6484 / 90
p0 118.5 ± 0.09024
145
140
135
130
125
120
115
110
105
100

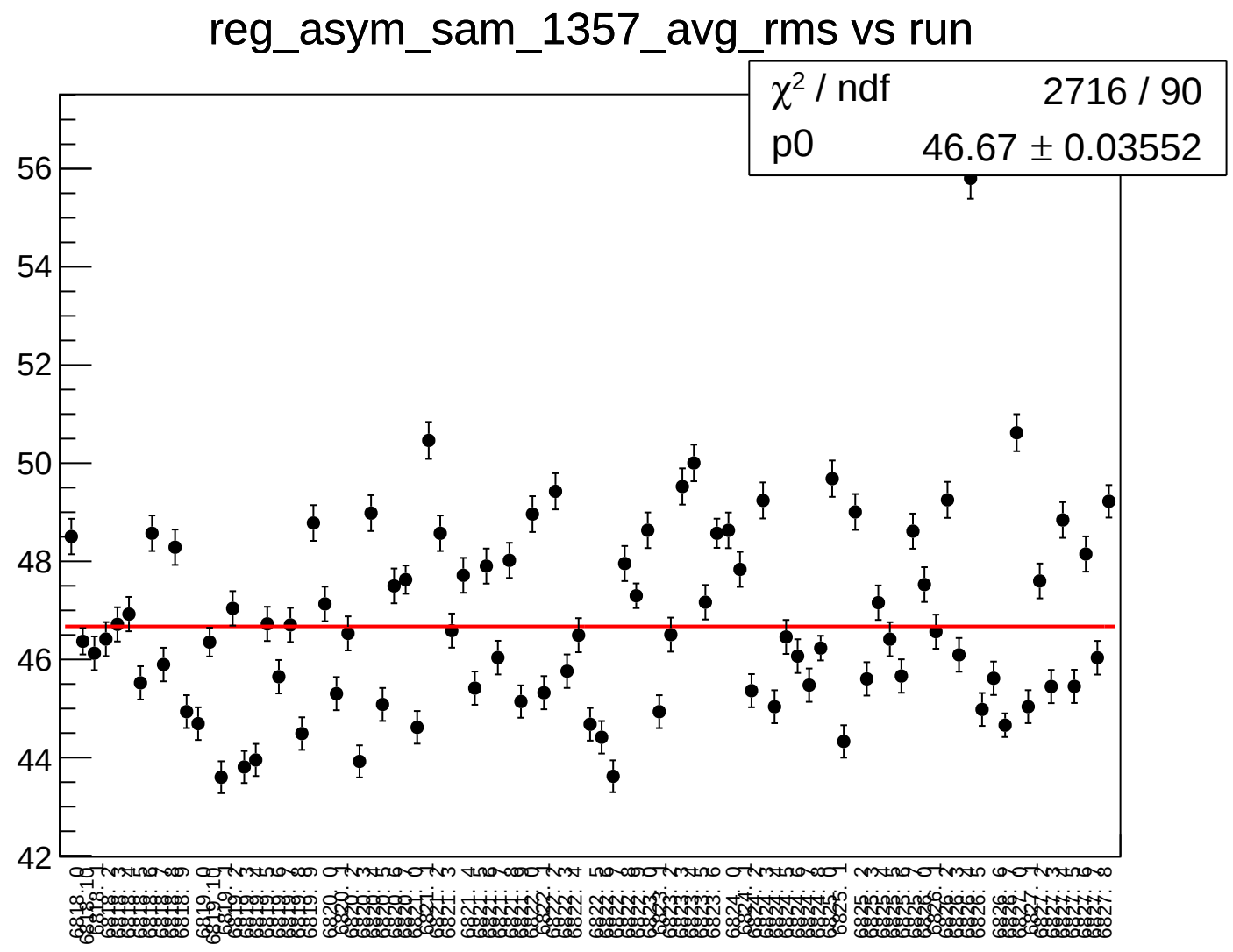

asym_sam_37_26_dd_mean vs run
χ² / ndf 89.5 / 90
p0 −147.8 ± 136.1
pull
Entries 91
Mean −52.51
Std Dev 106

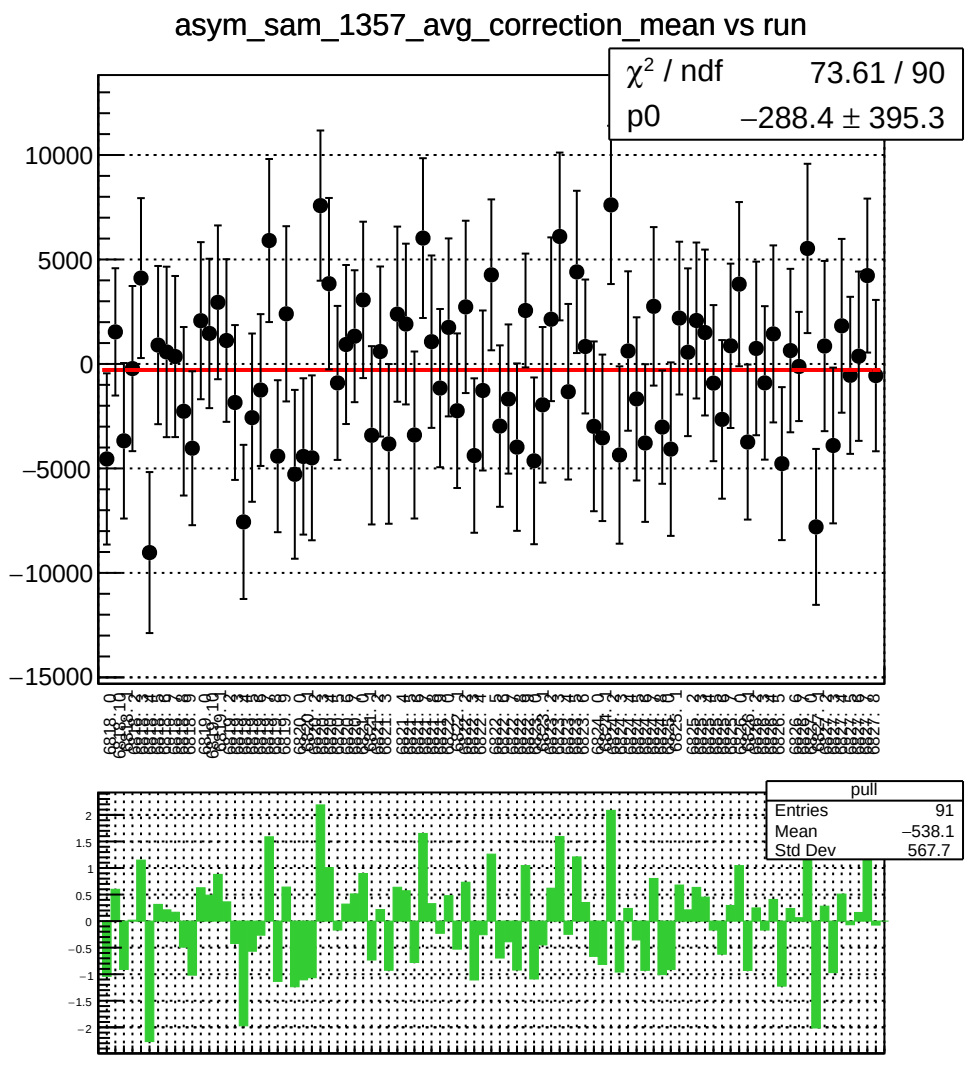

pull1D
Entries 91
Mean 0.008841
Std Dev 0.9917

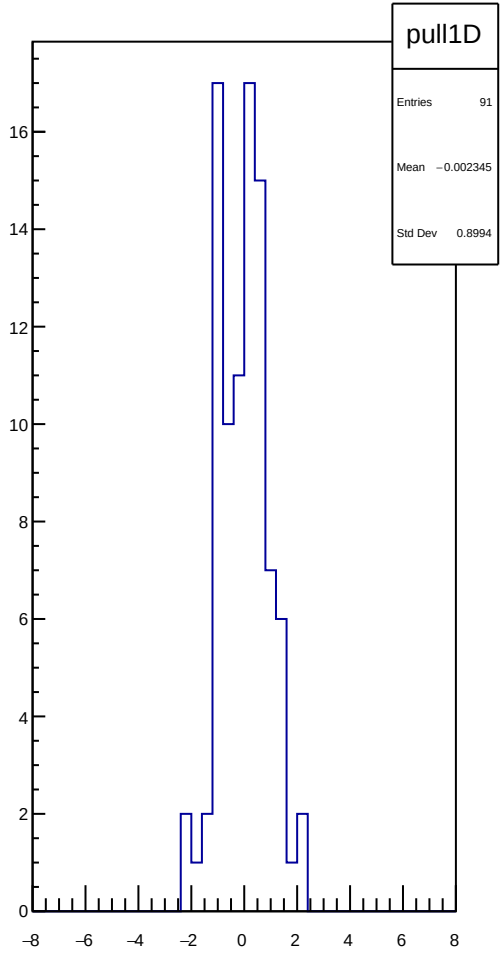

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5712 / 90
p0 126.3 ± 0.09621
150
145
140
135
130
125
120
115
110

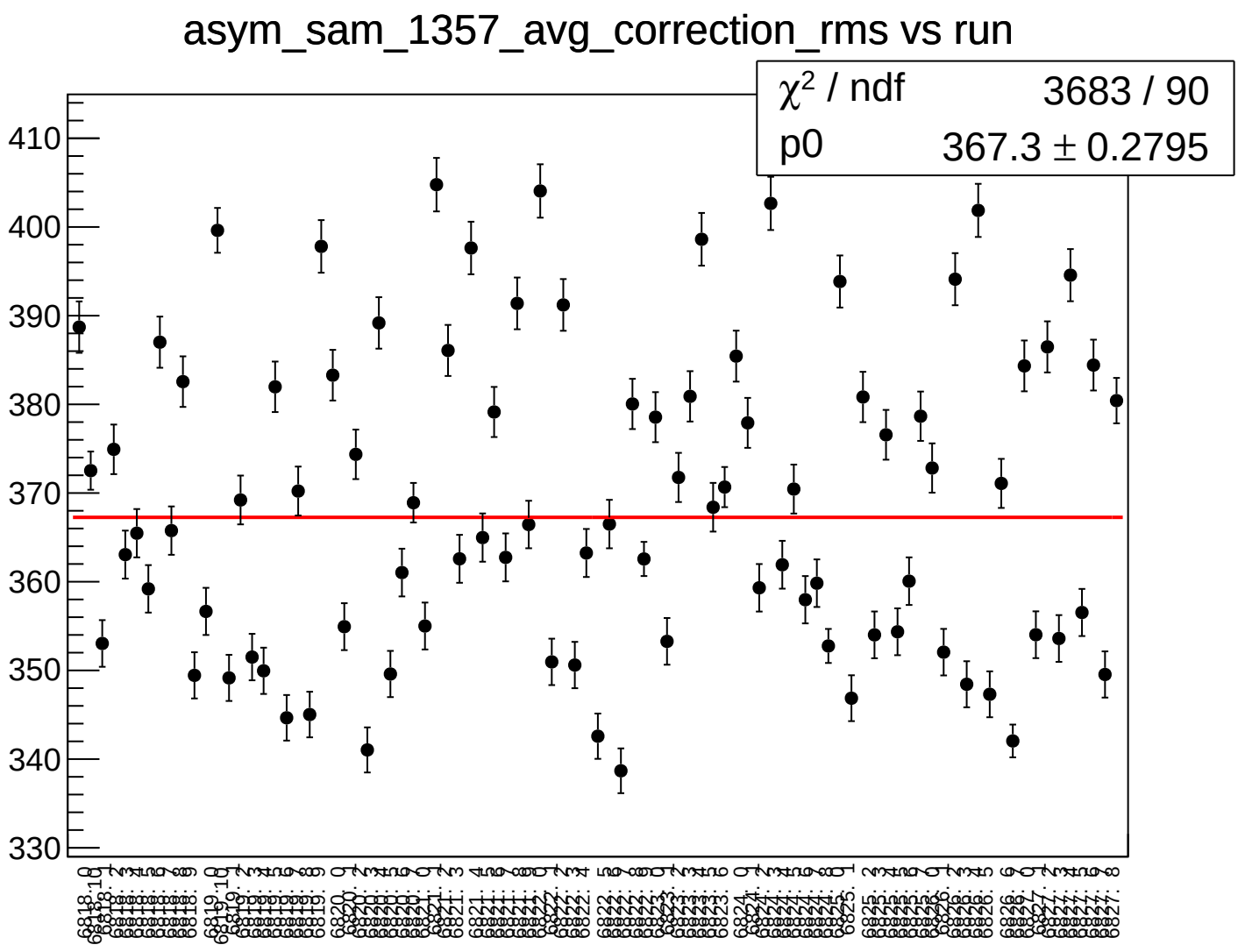

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 77.39 / 90
p0 −101.3 ± 50.23
pull
Entries 91
Mean 609.4
Std Dev 560.7

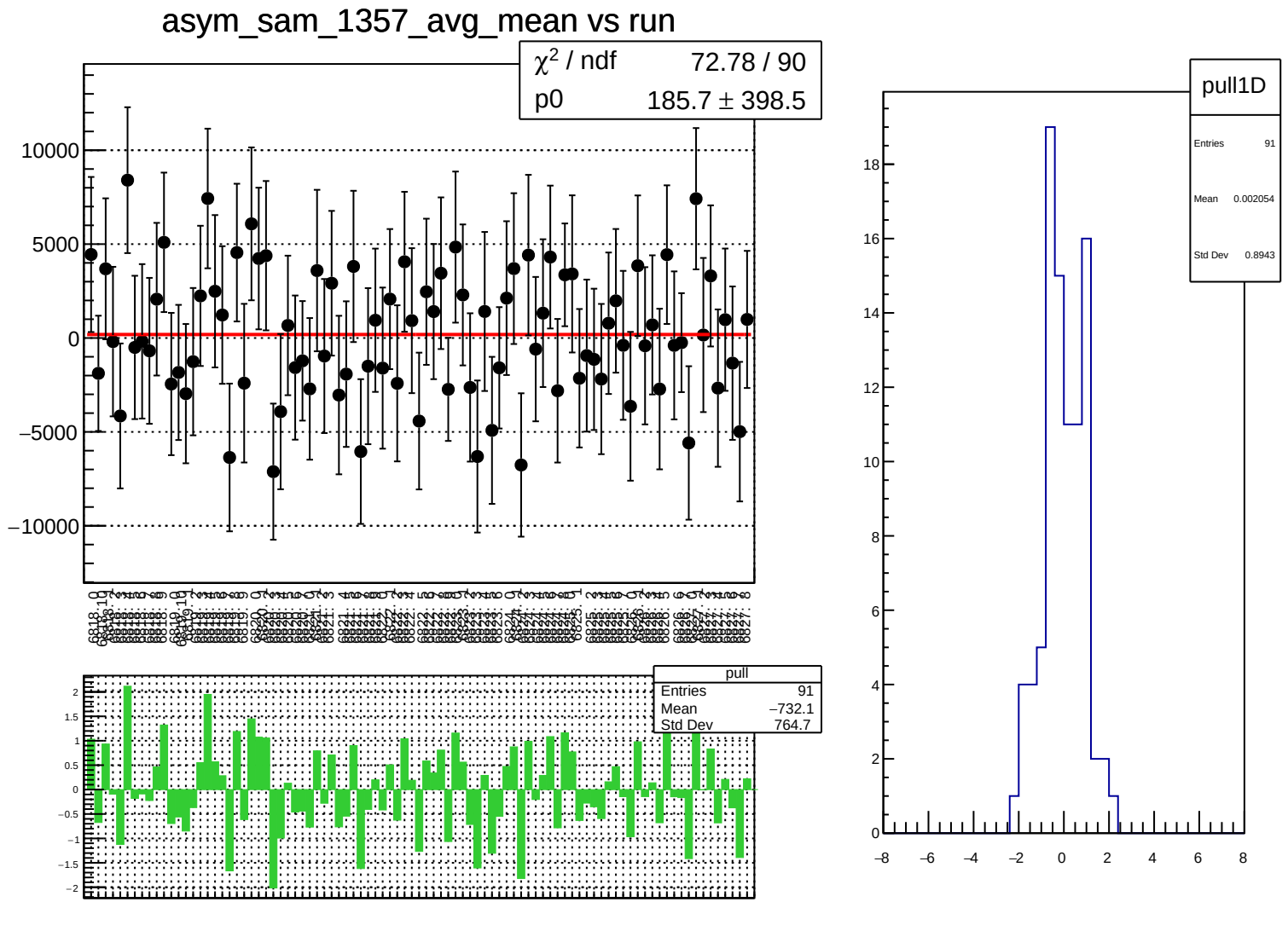

pull1D
Entries 91
Mean −0.003187
Std Dev 0.9222

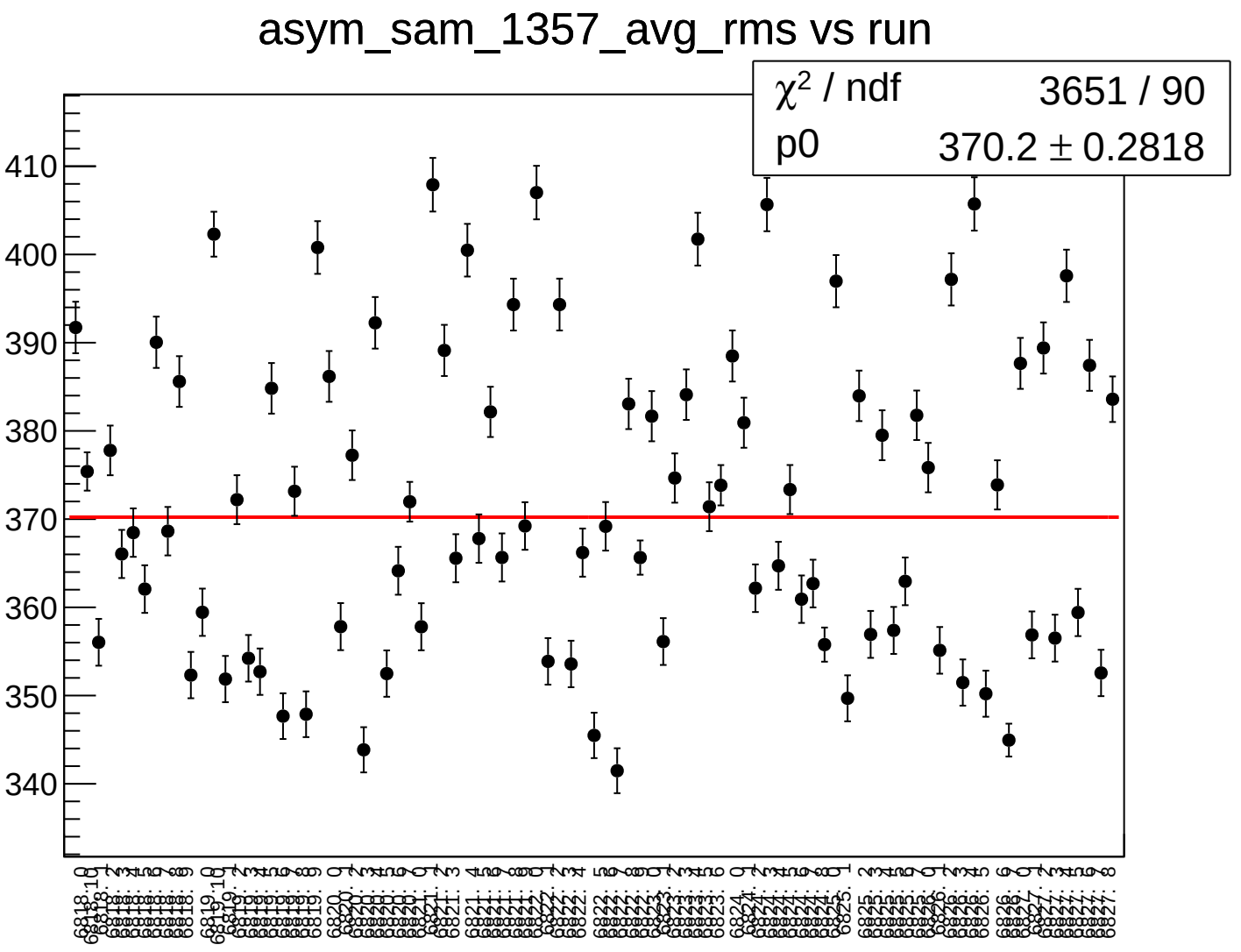

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2716 / 90
p0 46.67 ± 0.03552
56
54
52
50
48
46
44
42

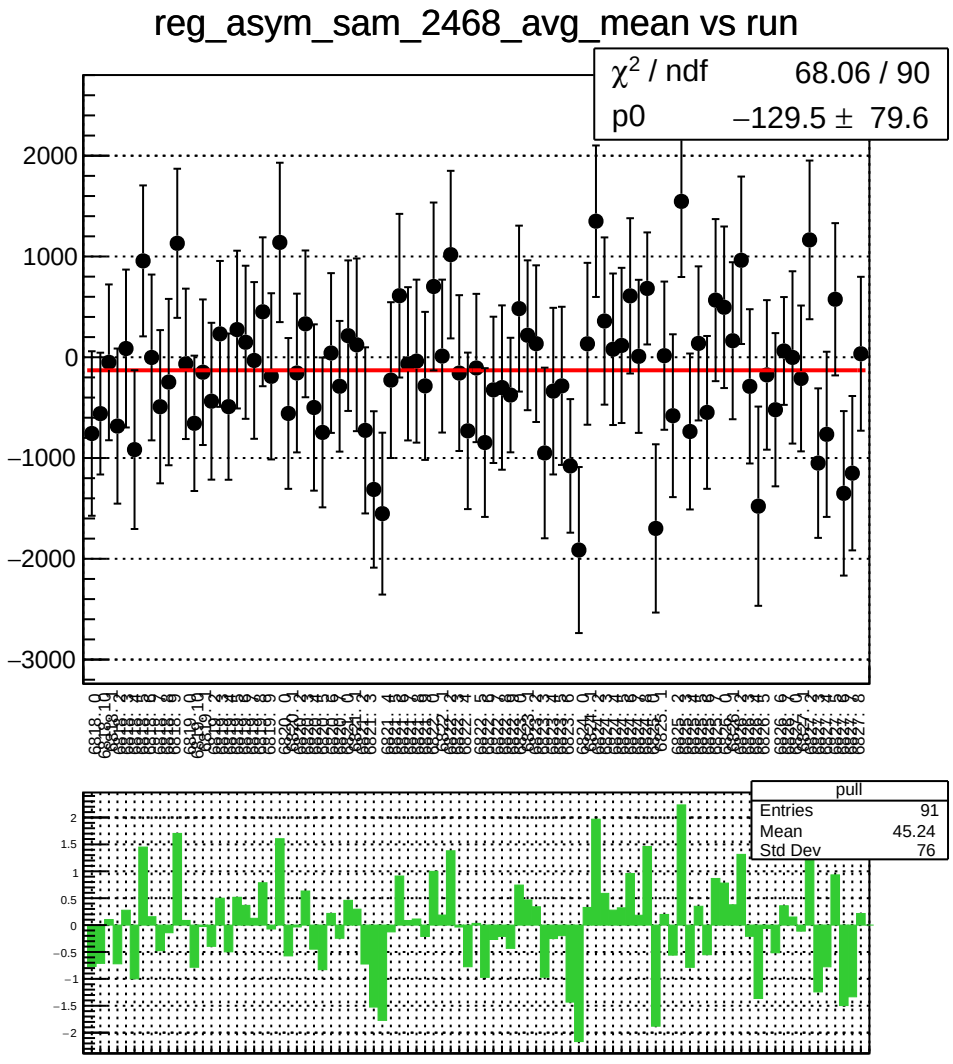

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 73.61 / 90
p0 −288.4 ± 395.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −538.1
Std Dev 567.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

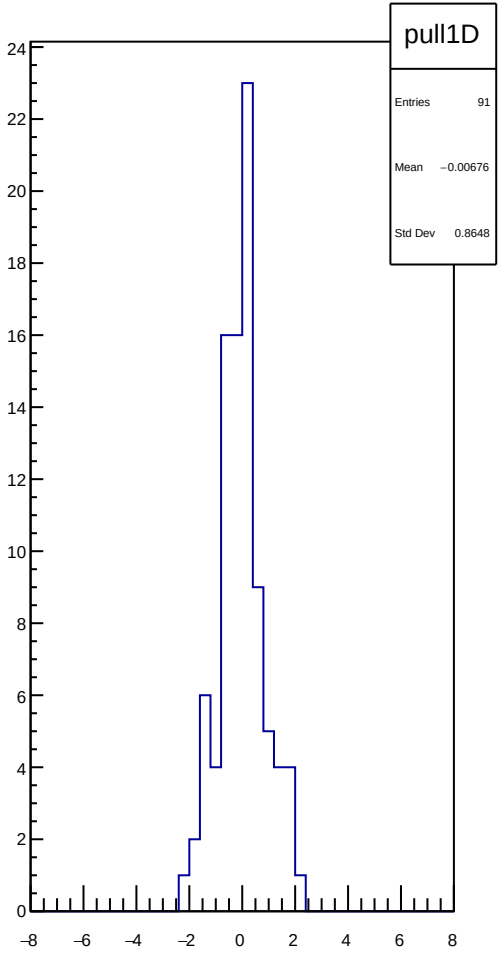

pull1D
Entries 91
Mean −0.002345
Std Dev 0.8994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

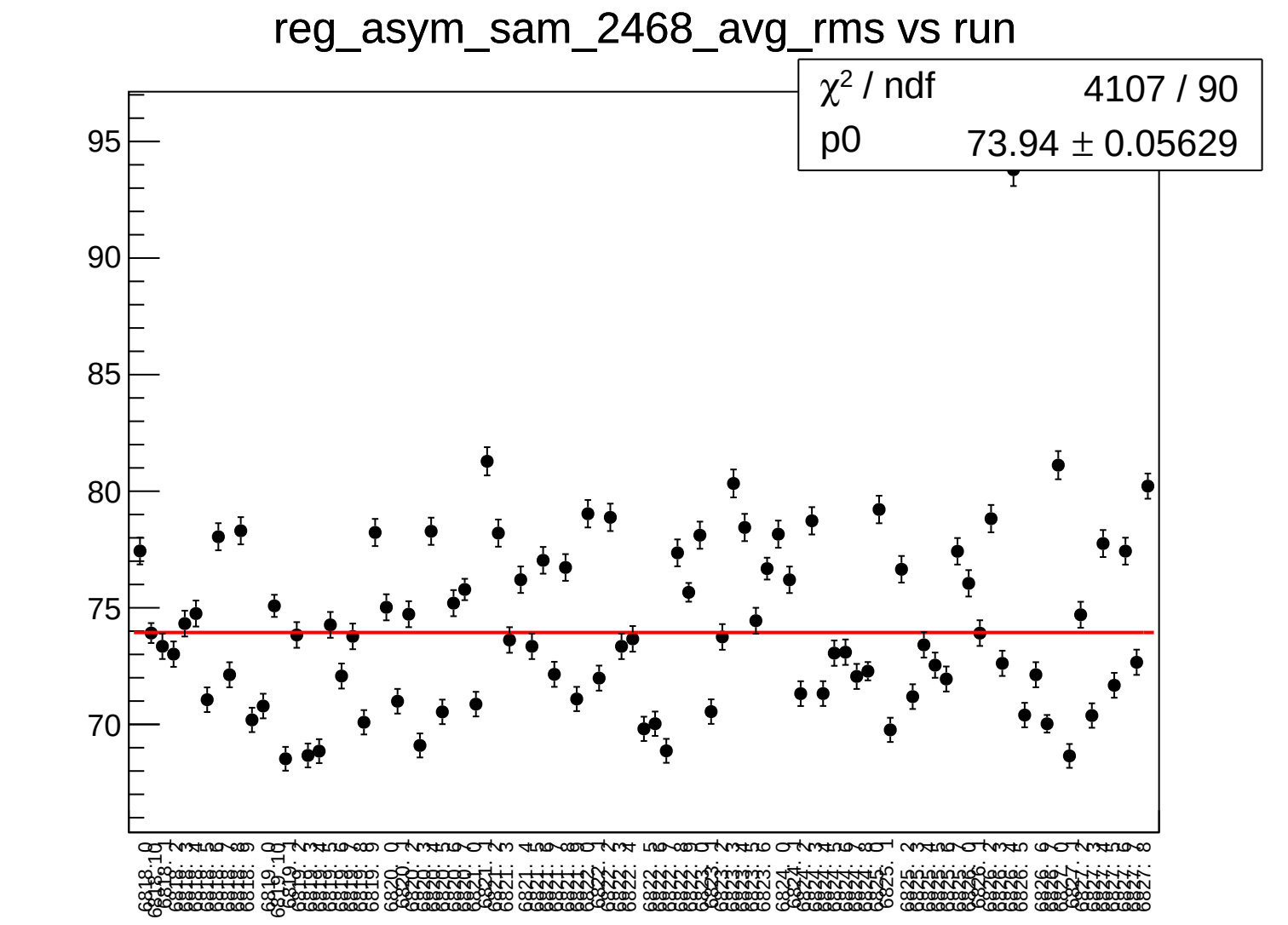

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 3683 / 90
p0 367.3 ± 0.2795
410
400
390
380
370
360
350
340
330

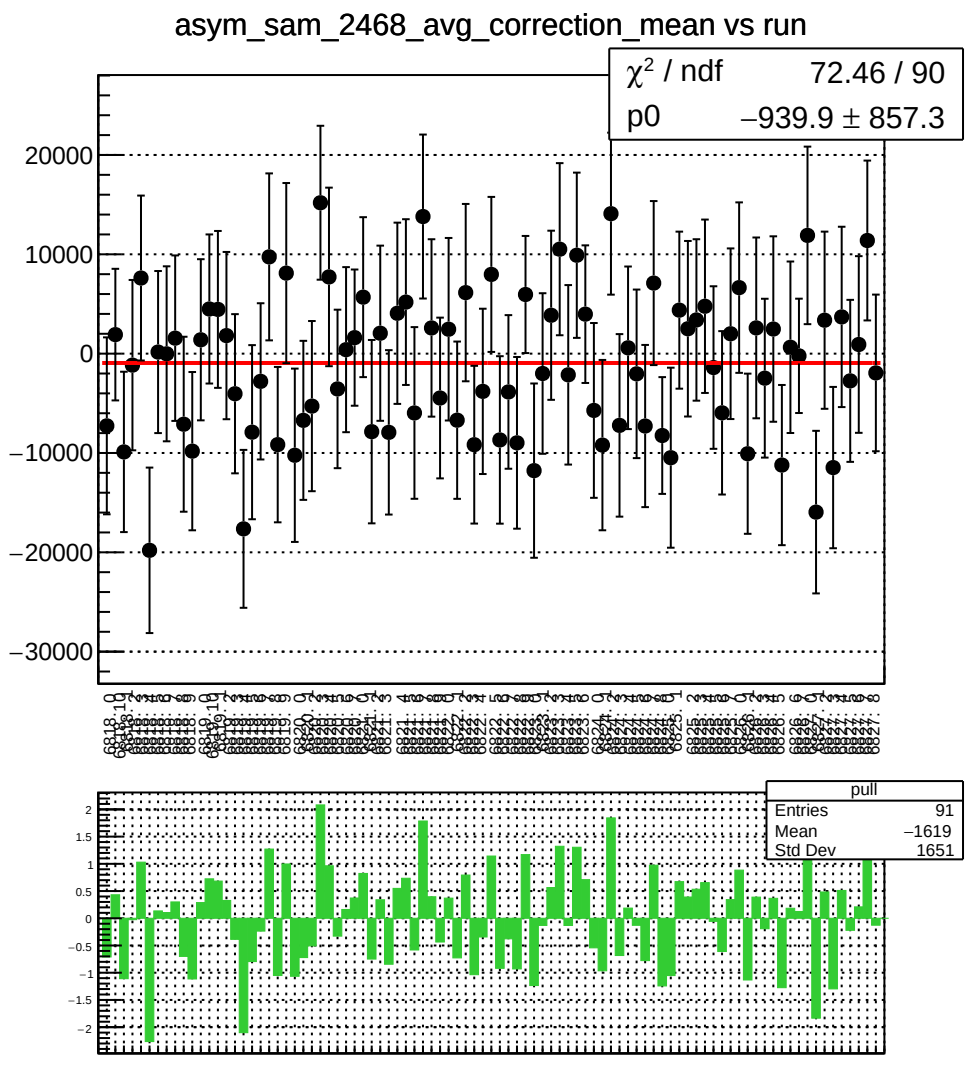

asym_sam_1357_avg_mean vs run
χ² / ndf 72.78 / 90
p0 185.7 ± 398.5
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −732.1
Std Dev 764.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.002054
Std Dev 0.8943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

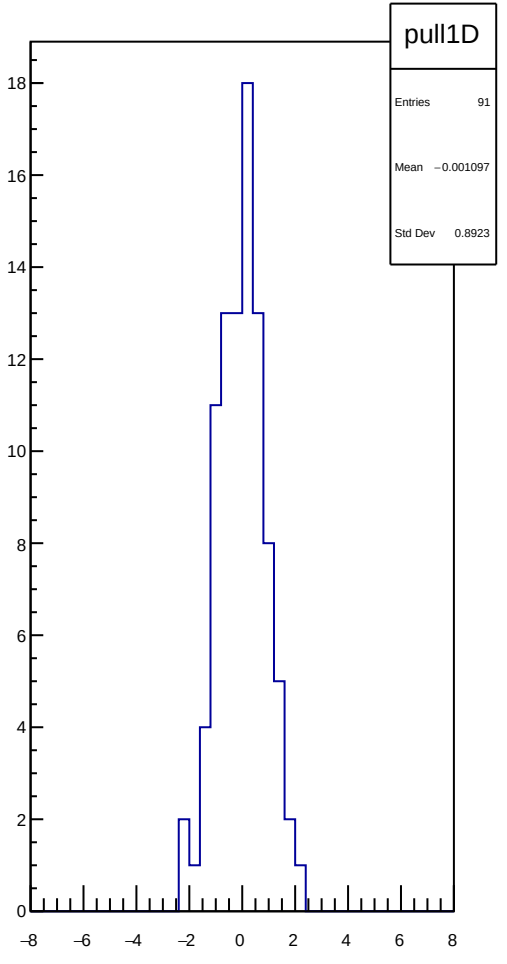

asym_sam_1357_avg_rms vs run
χ² / ndf 3651 / 90
p0 370.2 ± 0.2818
410
400
390
380
370
360
350
340

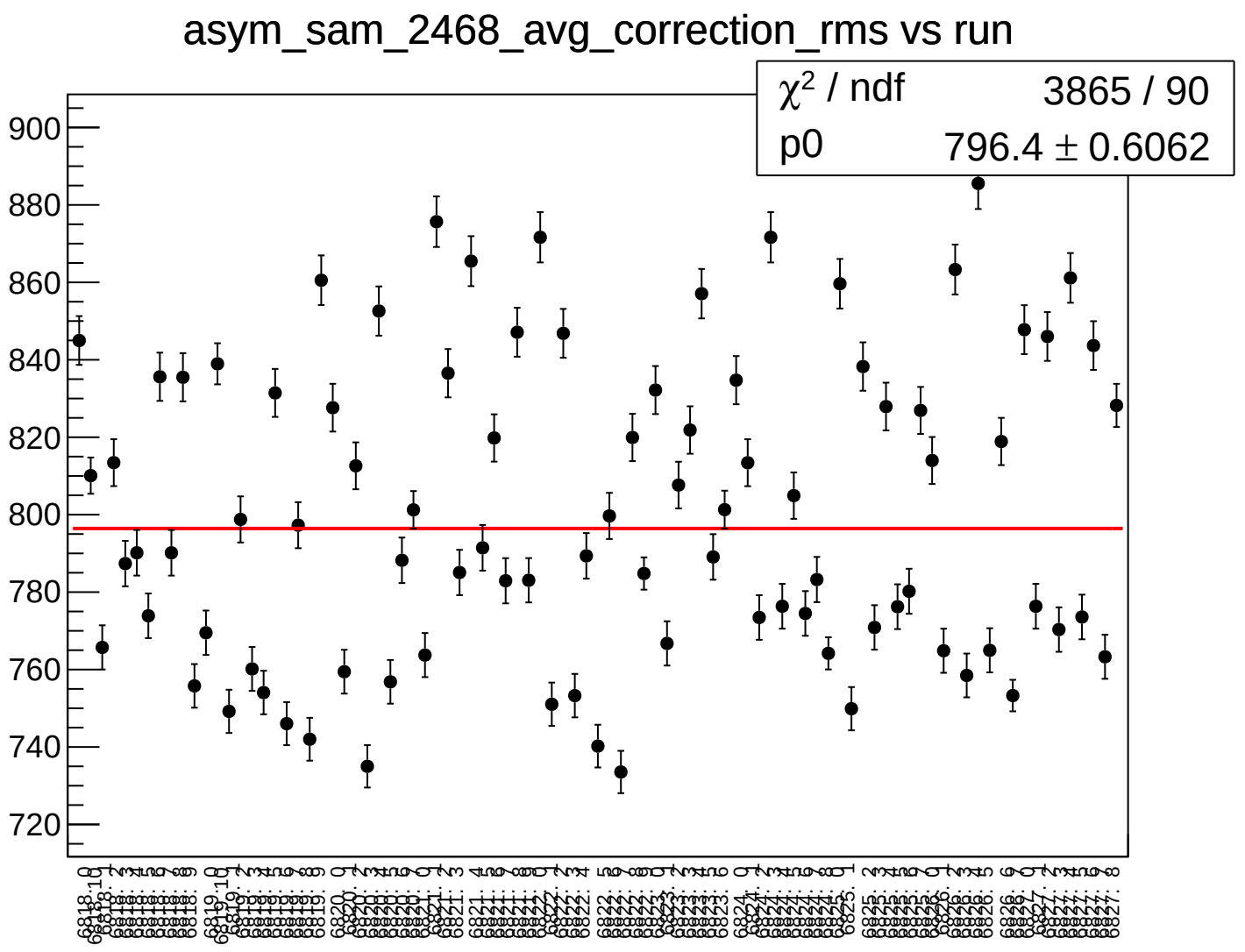

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 68.06 / 90
p0 −129.5 ± 79.6
pull
Entries 91
Mean 45.24
Std Dev 76

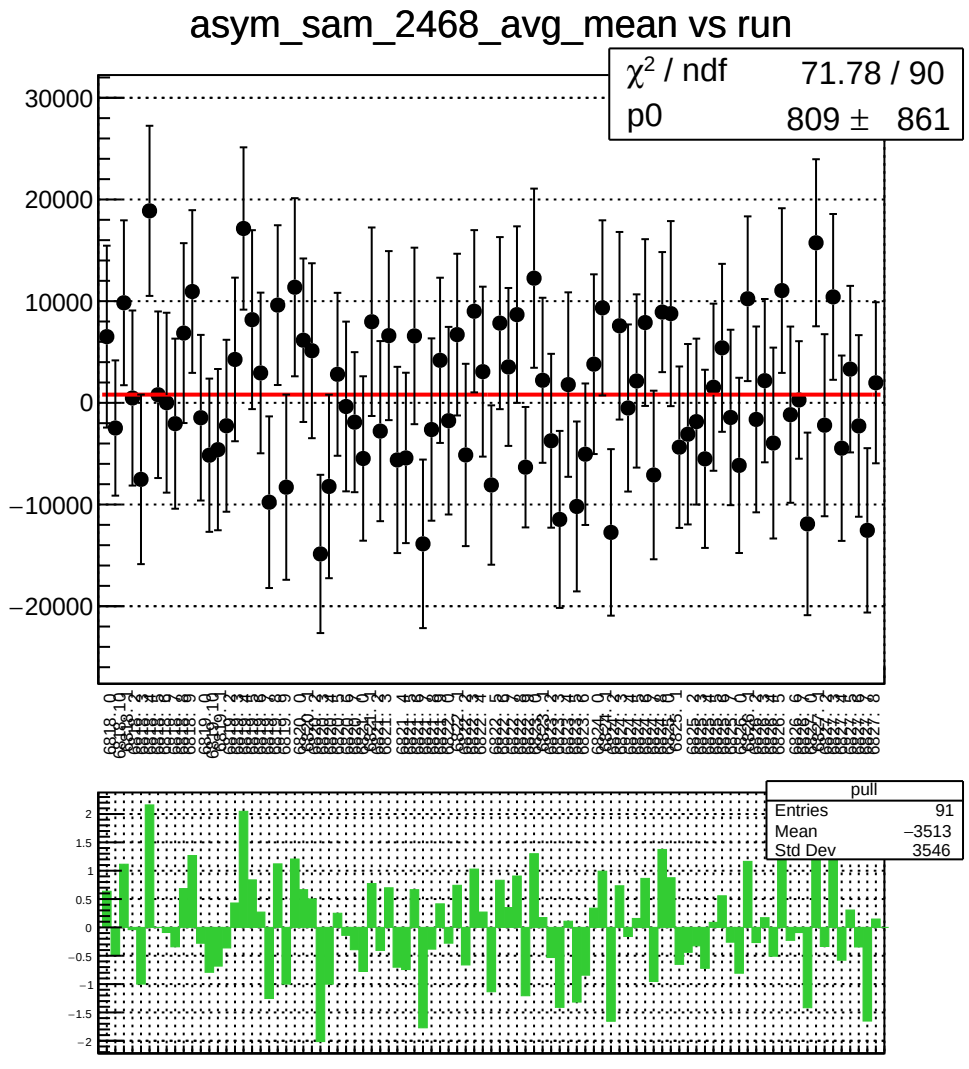

pull1D
Entries 91
Mean −0.00676
Std Dev 0.8648

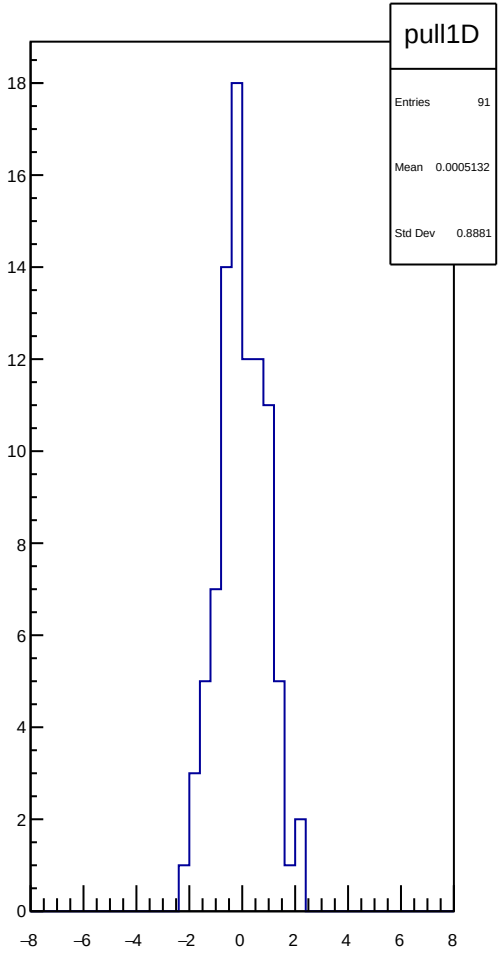

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4107 / 90
p0 73.94 ± 0.05629
95
90
85
80
75
70

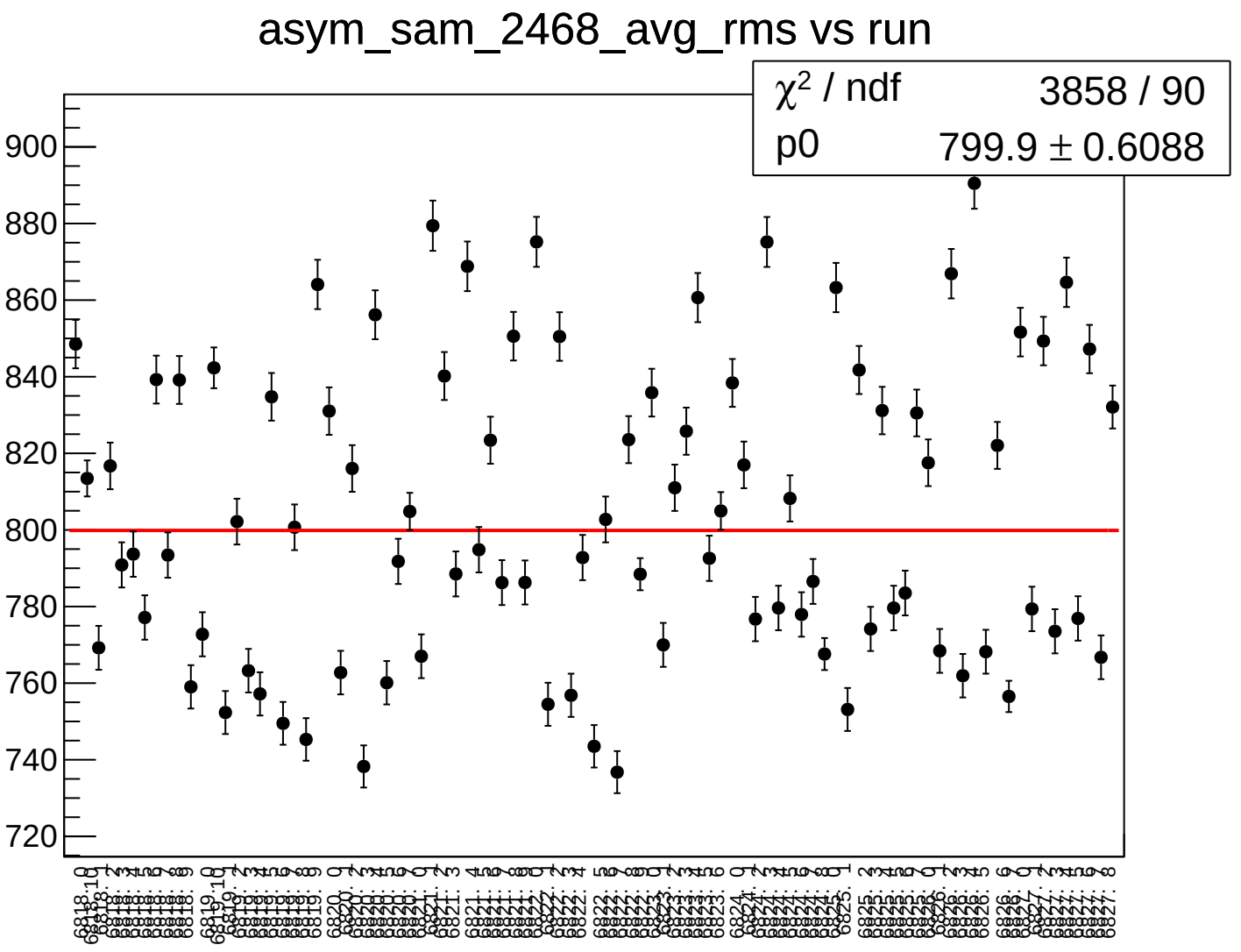

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 72.46 / 90
p0 −939.9 ± 857.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −1619
Std Dev 1651
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

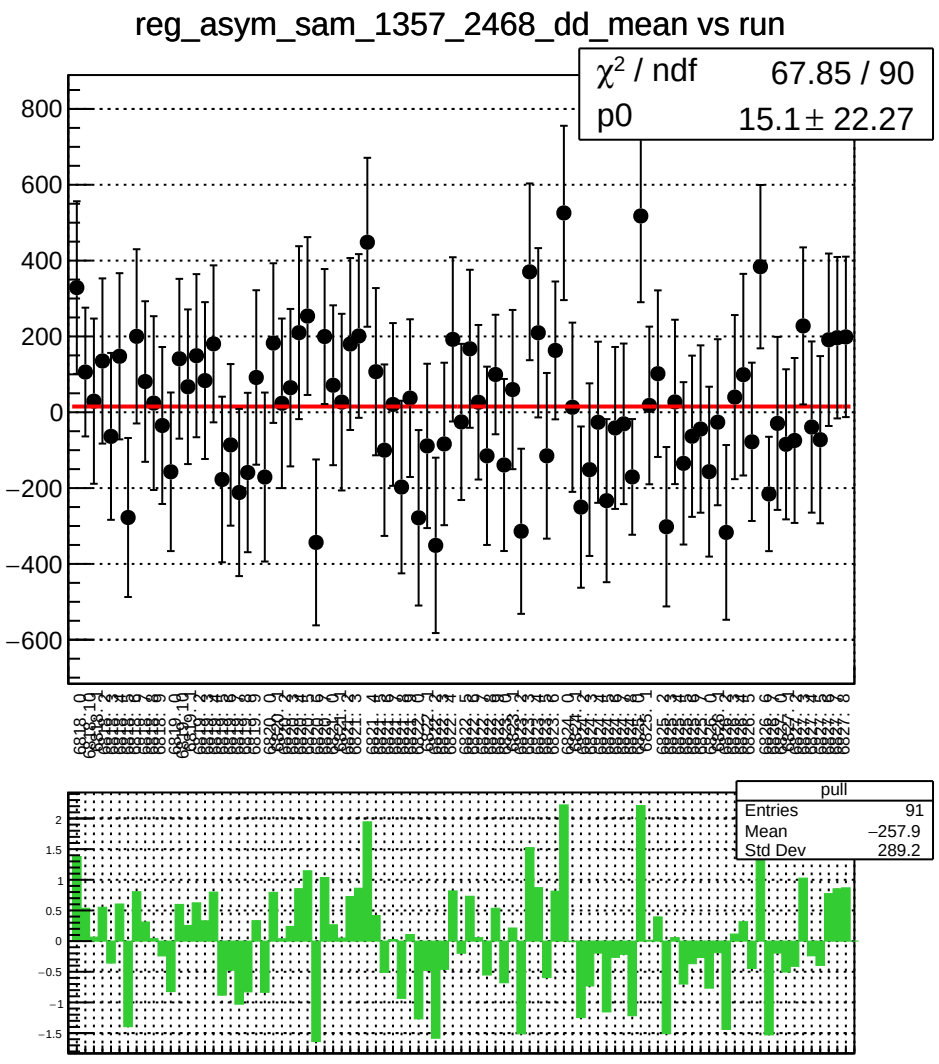

pull1D
Entries 91
Mean −0.001097
Std Dev 0.8923
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

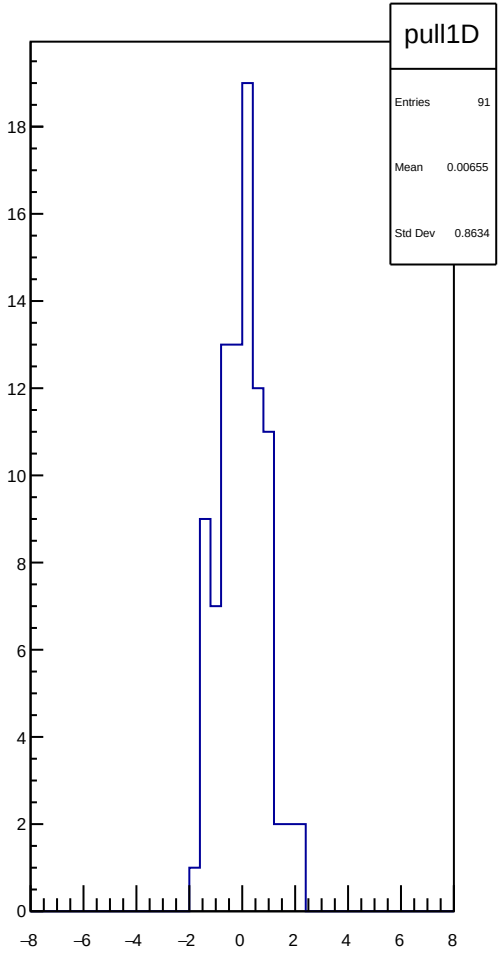

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 3865 / 90
p0 796.4 ± 0.6062
900
880
860
840
820
800
780
760
740
720

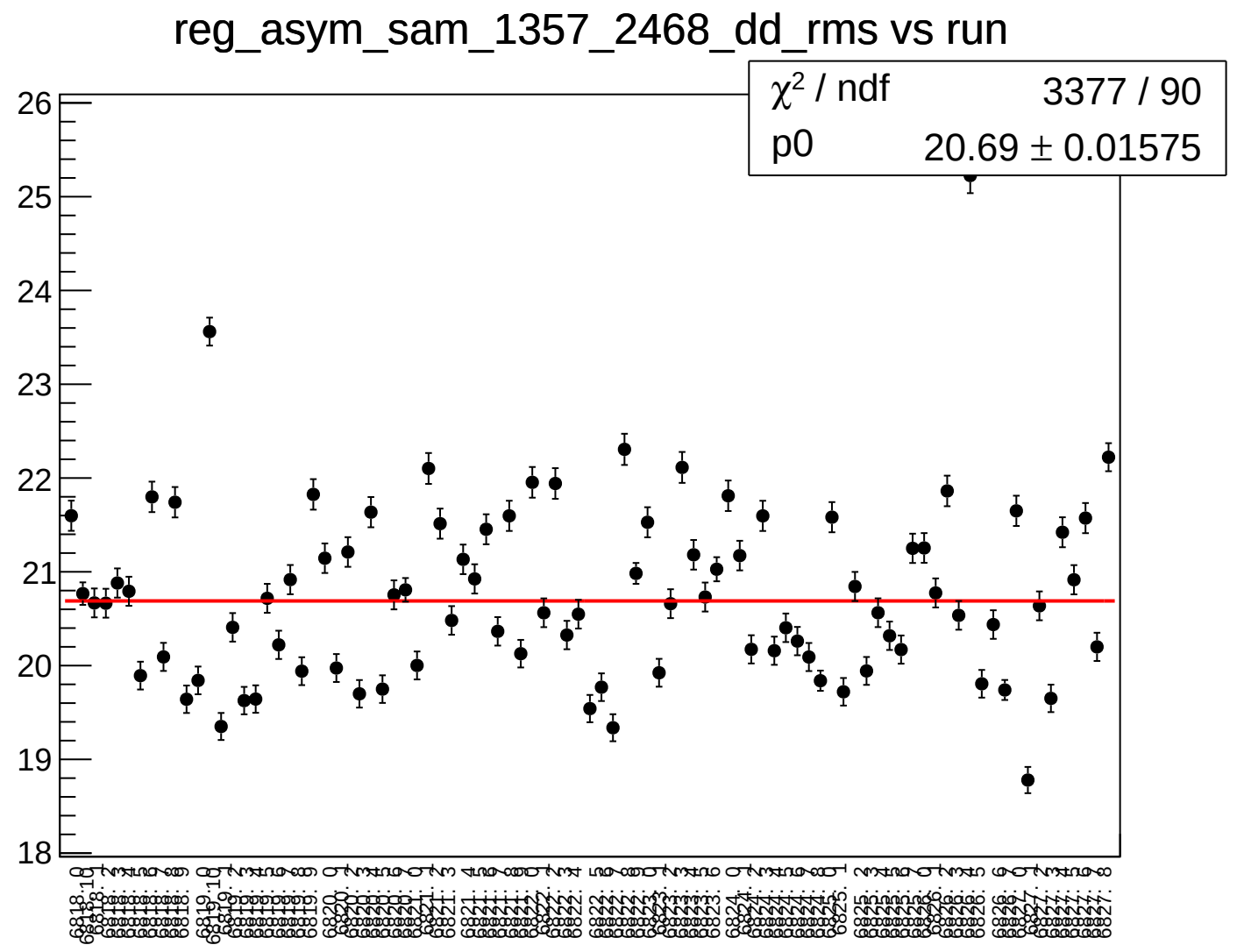

asym_sam_2468_avg_mean vs run
χ² / ndf 71.78 / 90
p0 809 ± 861
pull
Entries 91
Mean −3513
Std Dev 3546

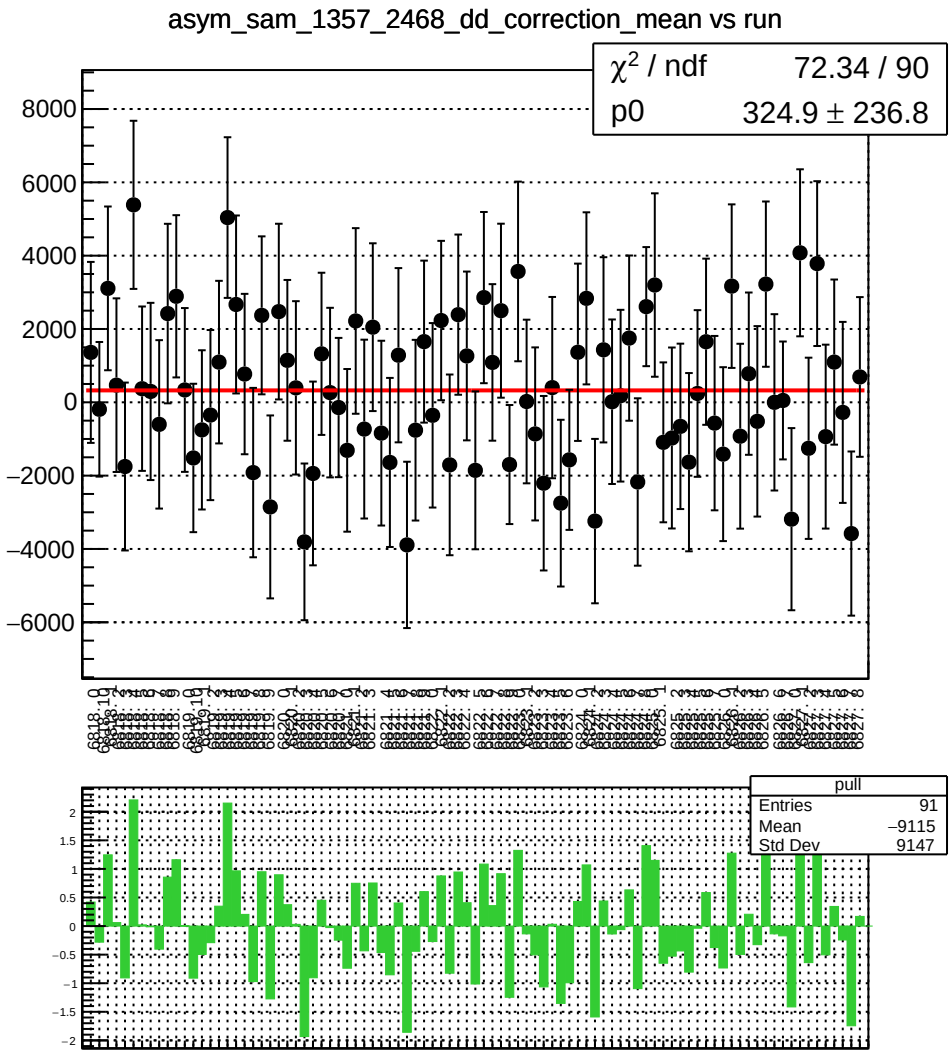

pull1D
Entries 91
Mean 0.0005132
Std Dev 0.8881

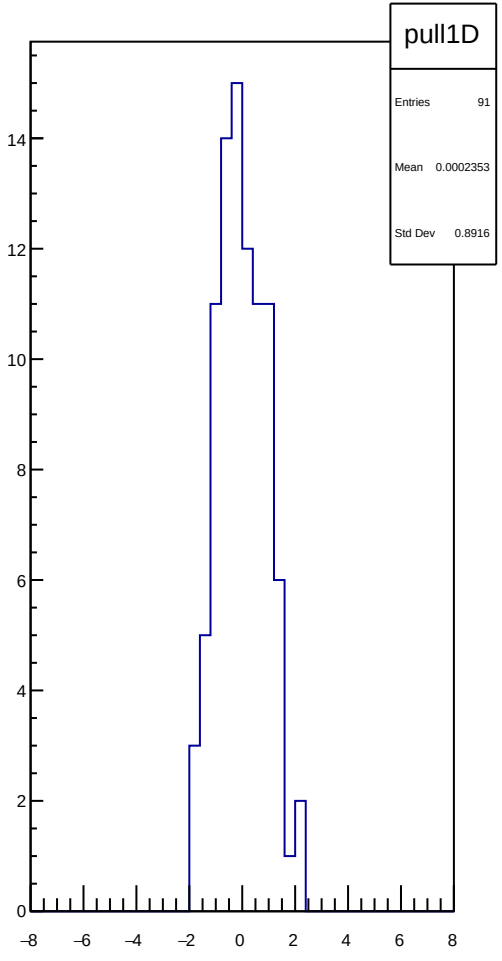

asym_sam_2468_avg_rms vs run
χ^2 / ndf 3858 / 90
p0 799.9 ± 0.6088
900
880
860
840
820
800
780
760
740
720

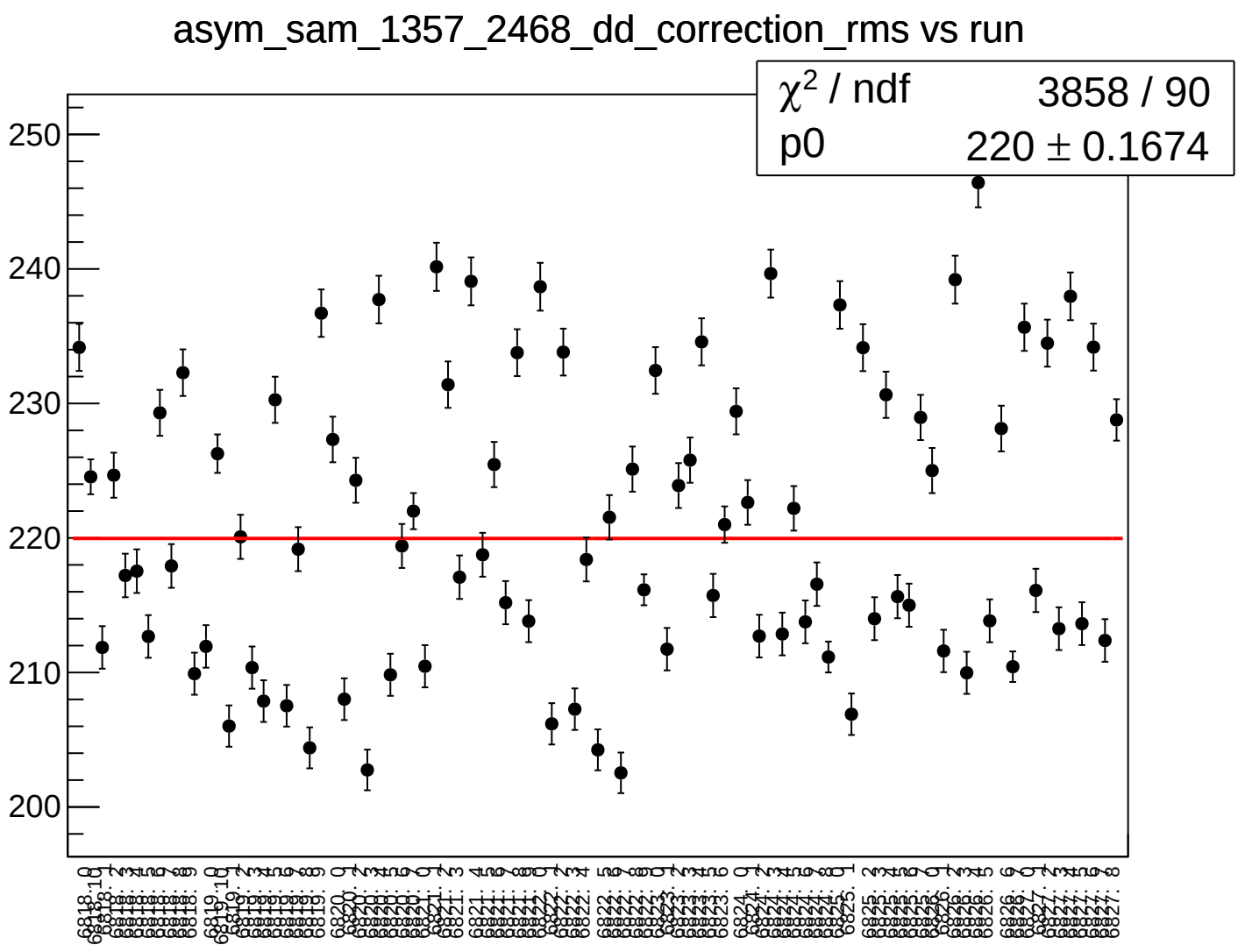

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 67.85 / 90
p0 15.1 ± 22.27
pull
Entries 91
Mean −257.9
Std Dev 289.2

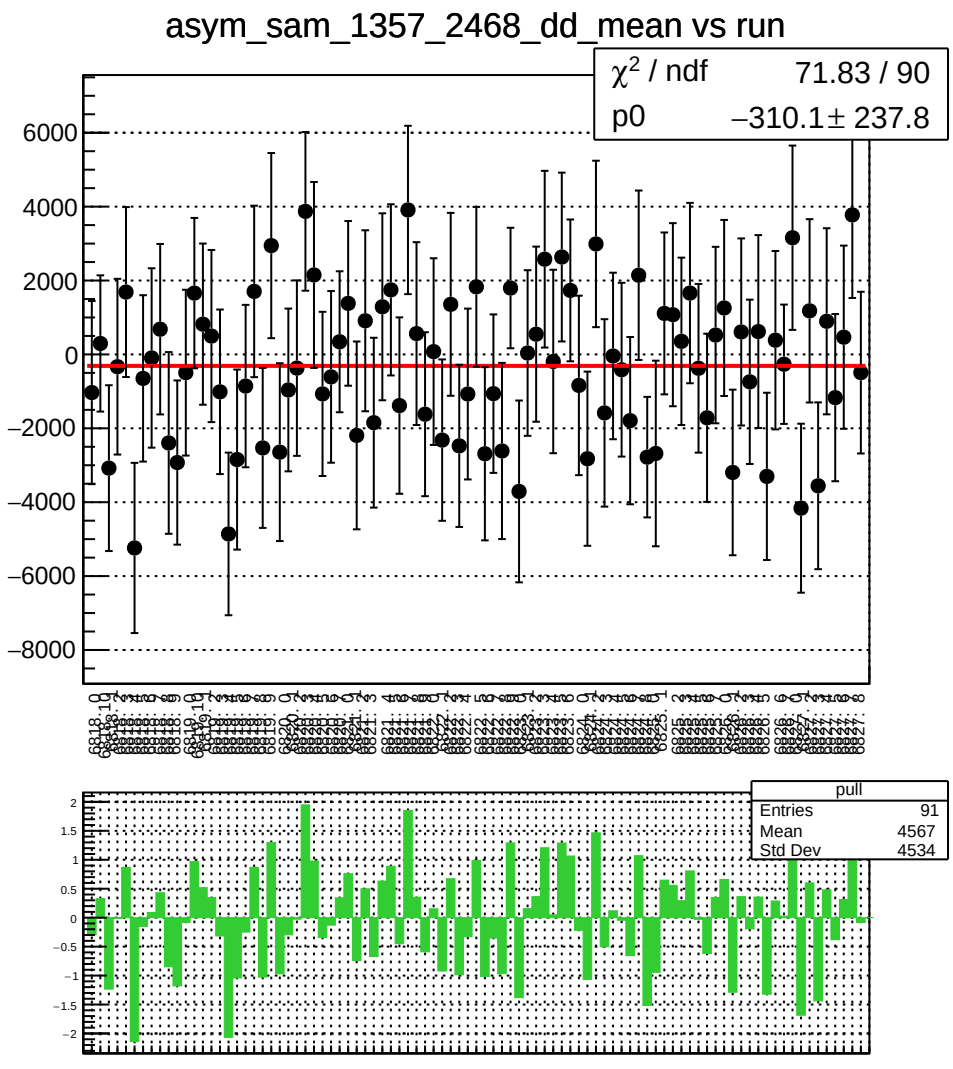

pull1D
Entries 91
Mean 0.00655
Std Dev 0.8634

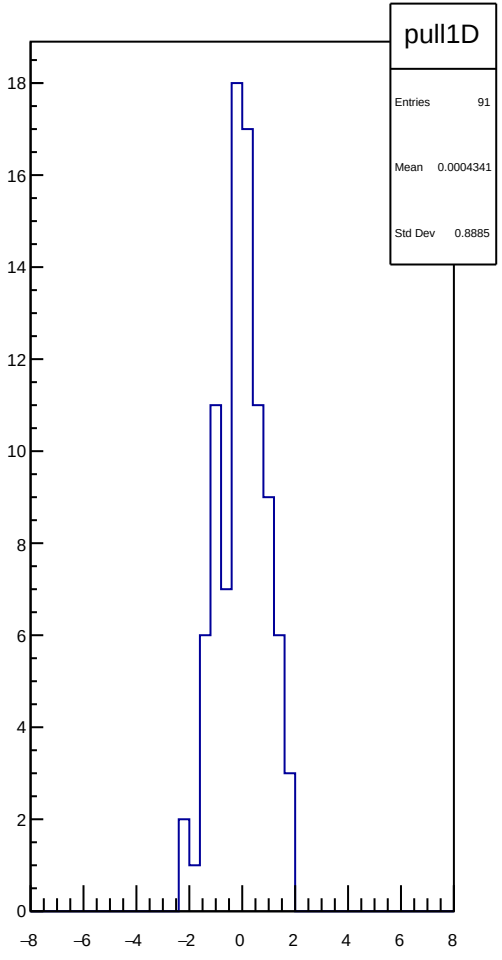

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3377 / 90
p0 20.69 ± 0.01575
26
25
24
23
22
21
20
19
18

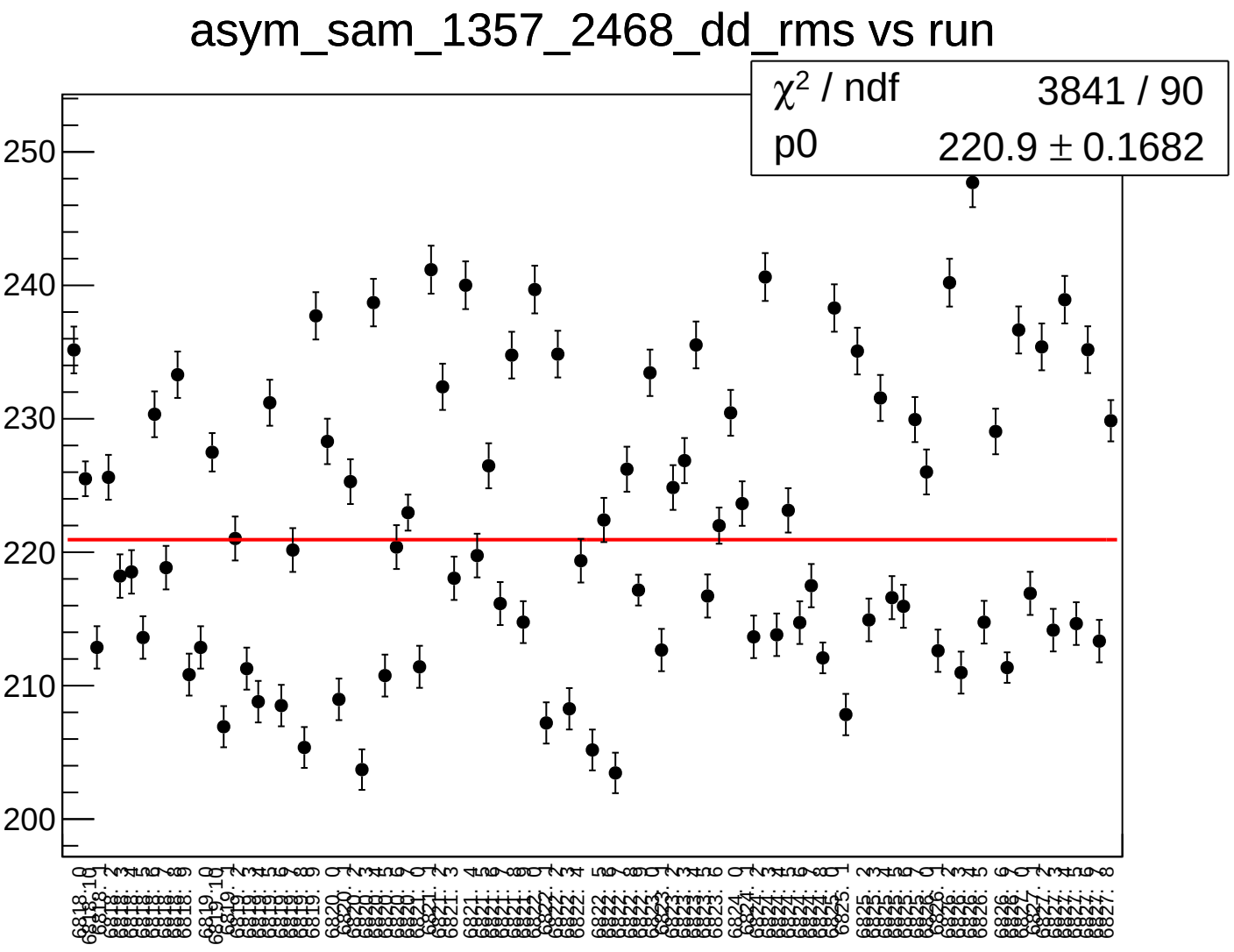

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 72.34 / 90
p0 324.9 ± 236.8
pull
Entries 91
Mean −9115
Std Dev 9147

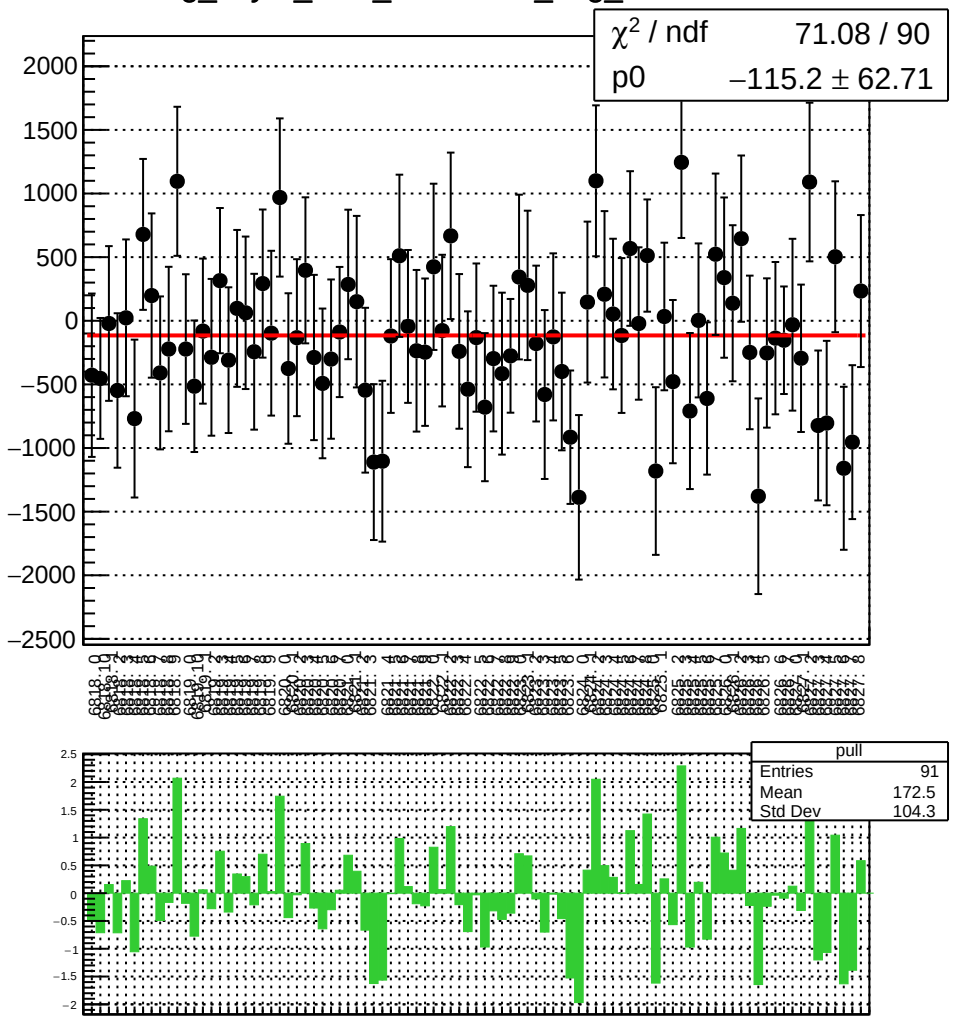

pull1D
Entries 91
Mean 0.0002353
Std Dev 0.8916

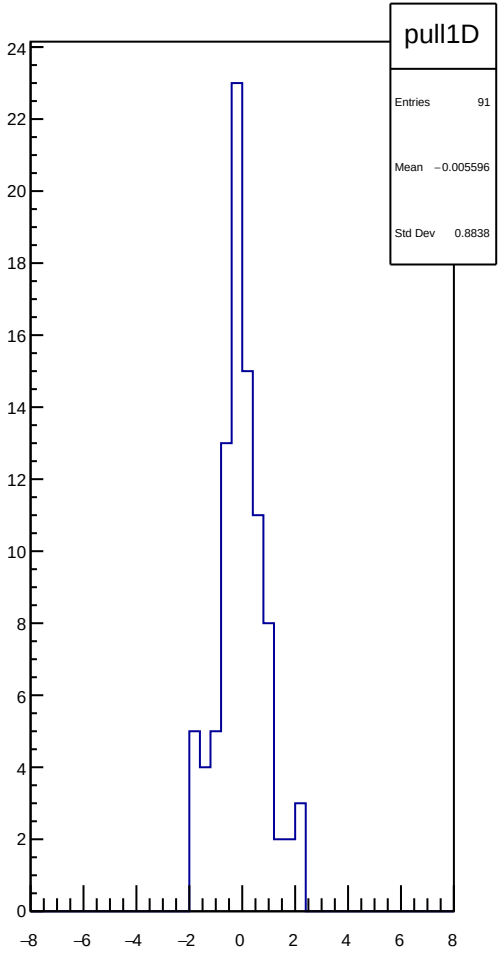

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 3858 / 90
p0 220 ± 0.1674
250
240
230
220
210
200

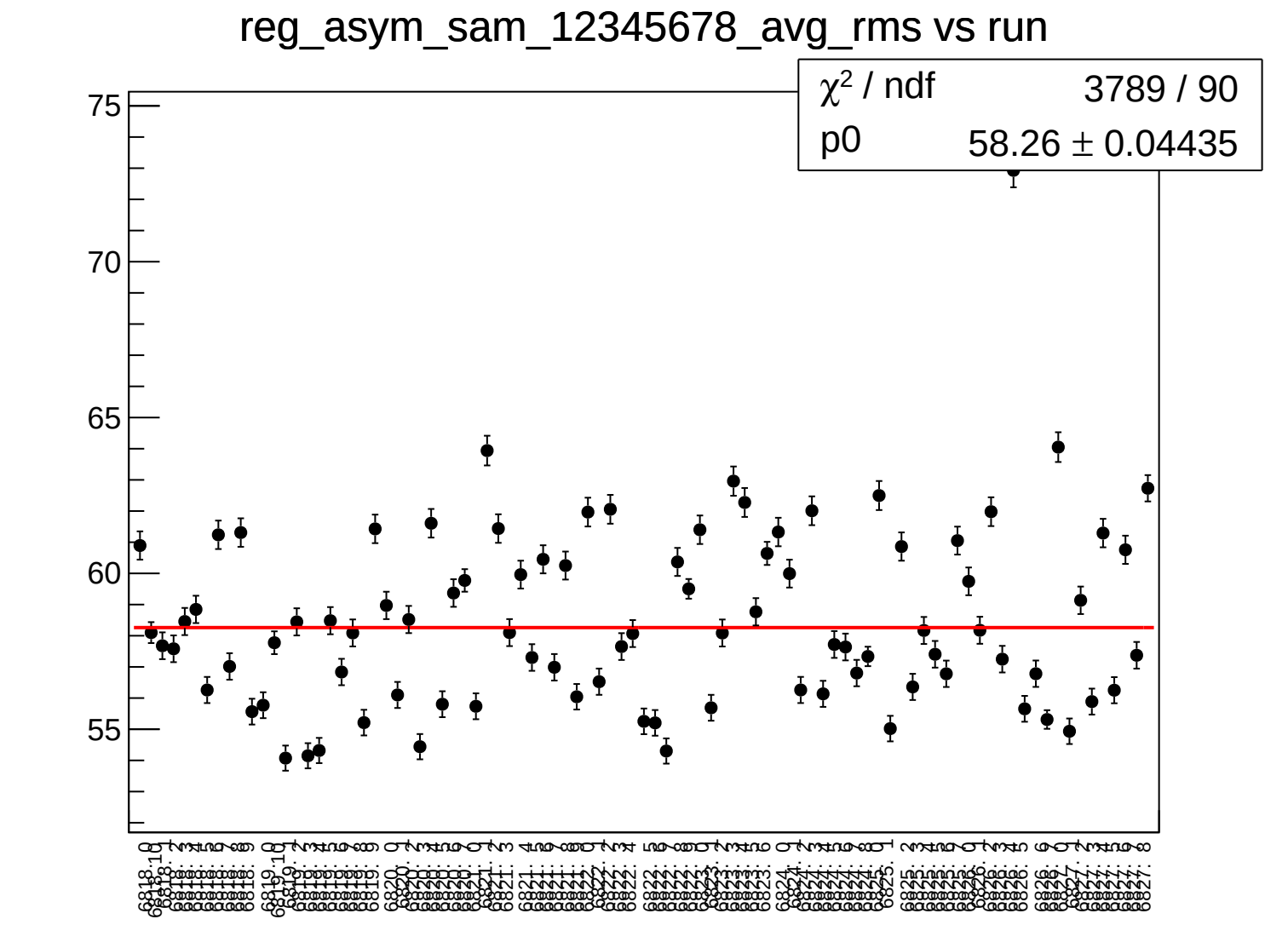

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 71.83 / 90
p0 −310.1± 237.8
pull
Entries 91
Mean 4567
Std Dev 4534

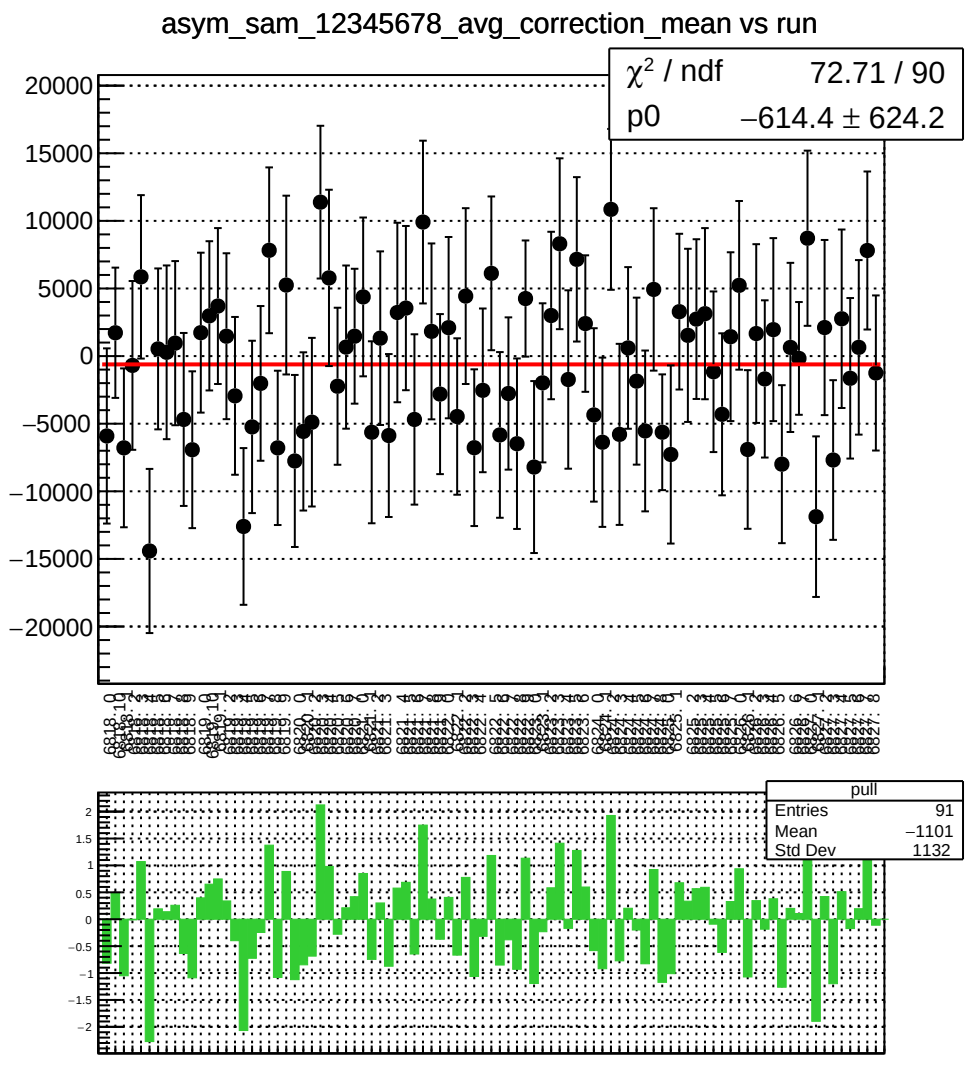

pull1D
Entries 91
Mean 0.0004341
Std Dev 0.8885

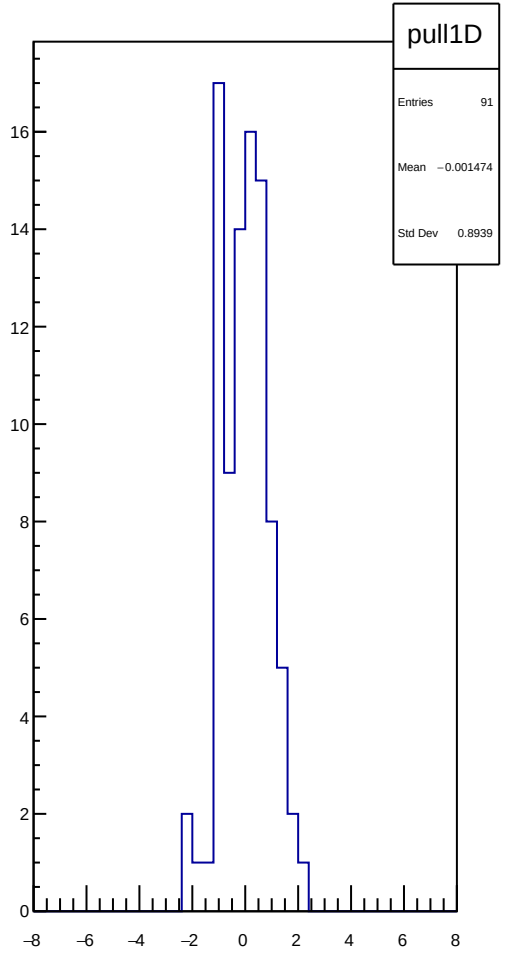

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3841 / 90
p0 220.9 ± 0.1682
250
240
230
220
210
200

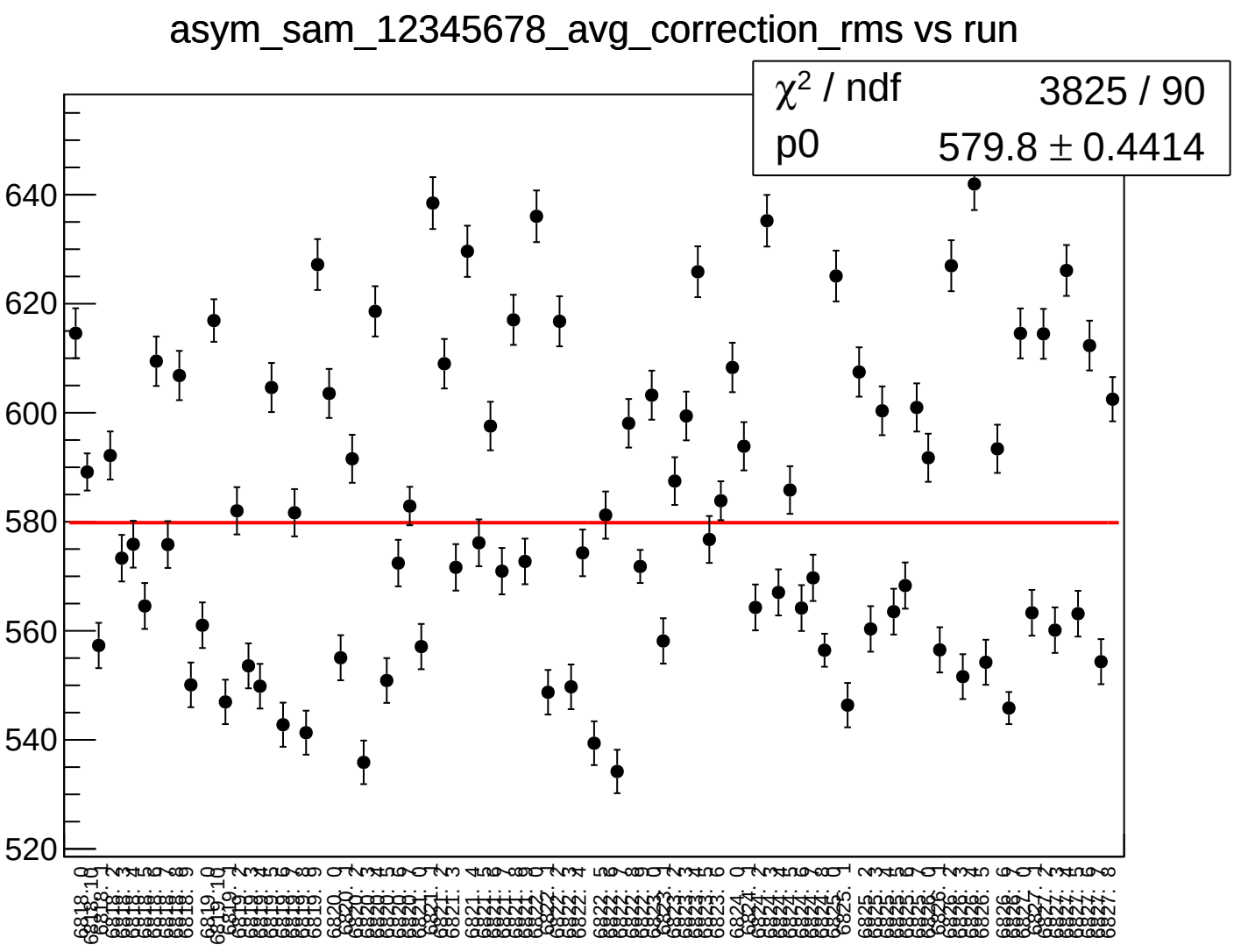

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 71.08 / 90
p0 −115.2 ± 62.71
pull
Entries 91
Mean 172.5
Std Dev 104.3

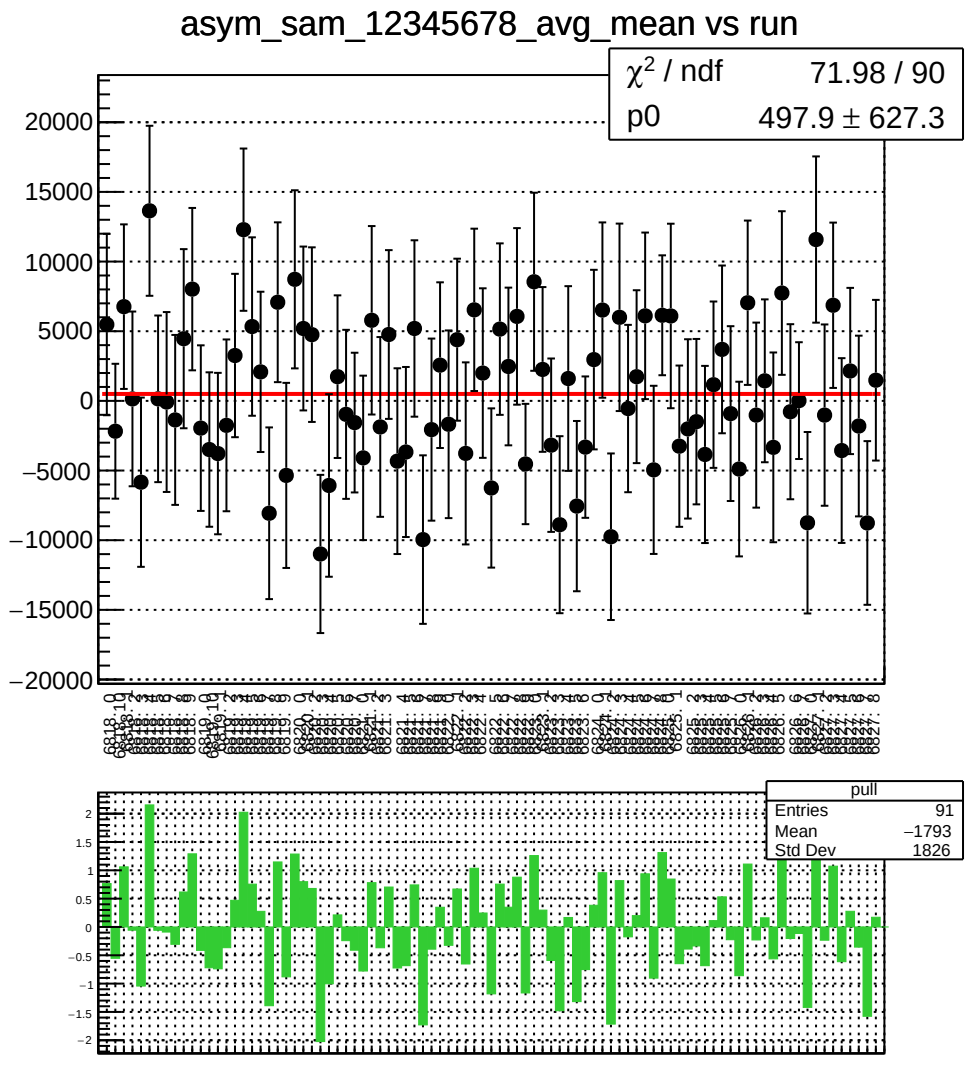

pull1D
Entries 91
Mean −0.005596
Std Dev 0.8838

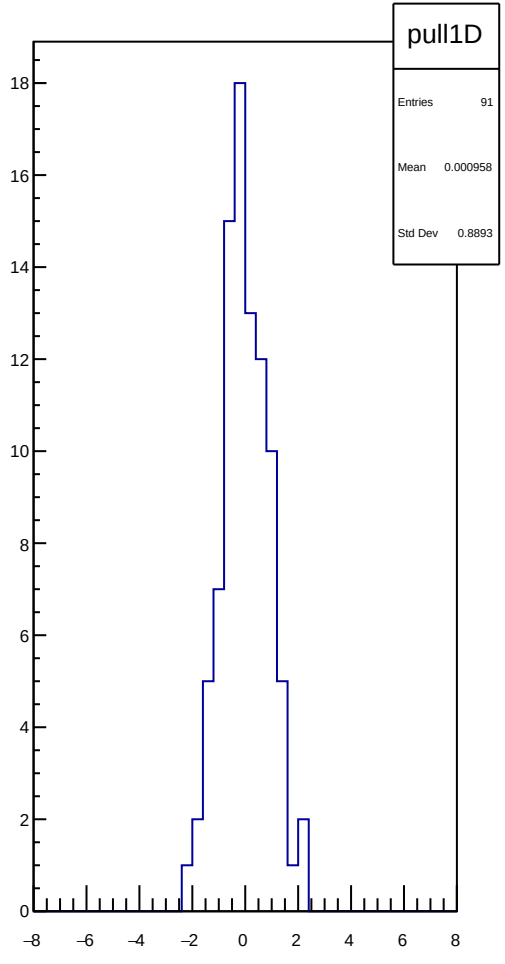

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3789 / 90
p0 58.26 ± 0.04435
75
70
65
60
55

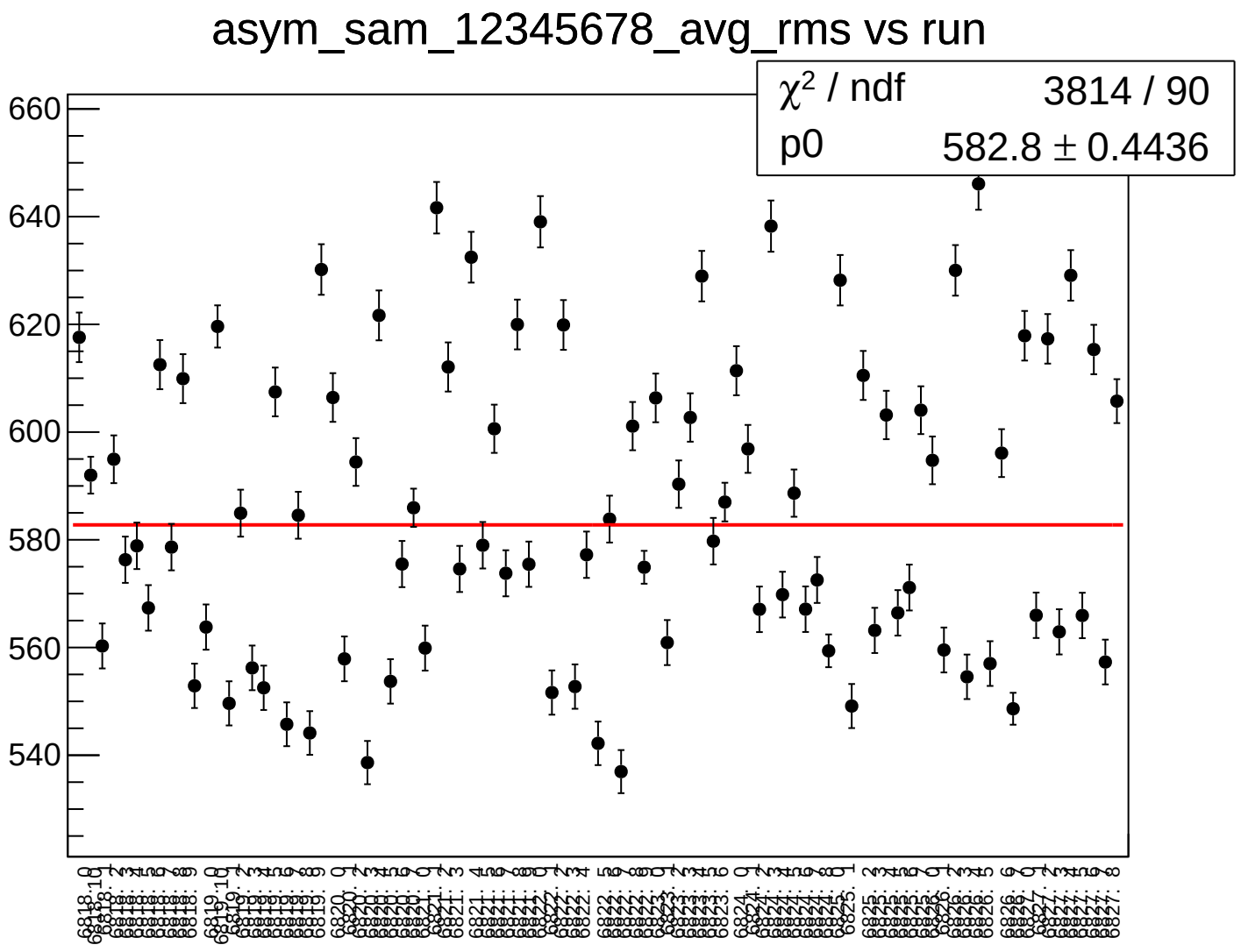

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 72.71 / 90
p0 −614.4 ± 624.2
pull
Entries 91
Mean −1101
Std Dev 1132

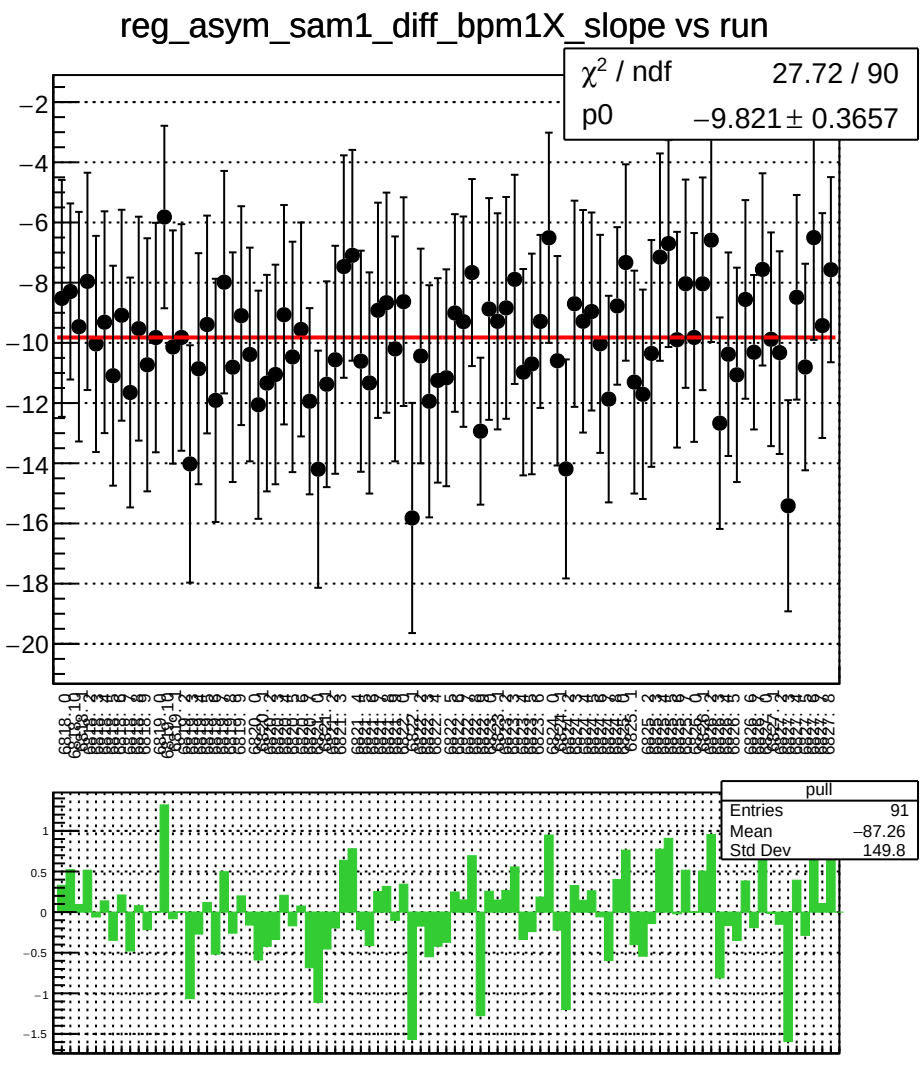

pull1D
Entries 91
Mean −0.001474
Std Dev 0.8939

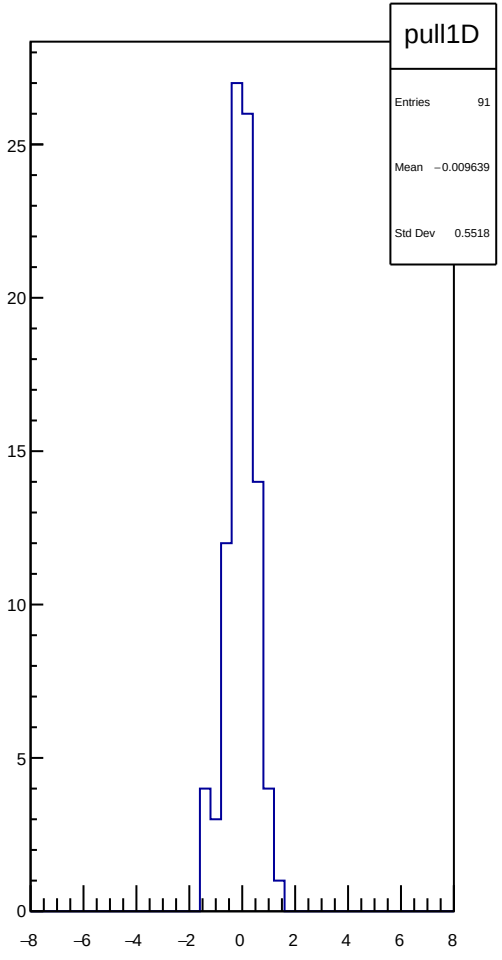

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 3825 / 90
p0 579.8 ± 0.4414
640
620
600
580
560
540
520

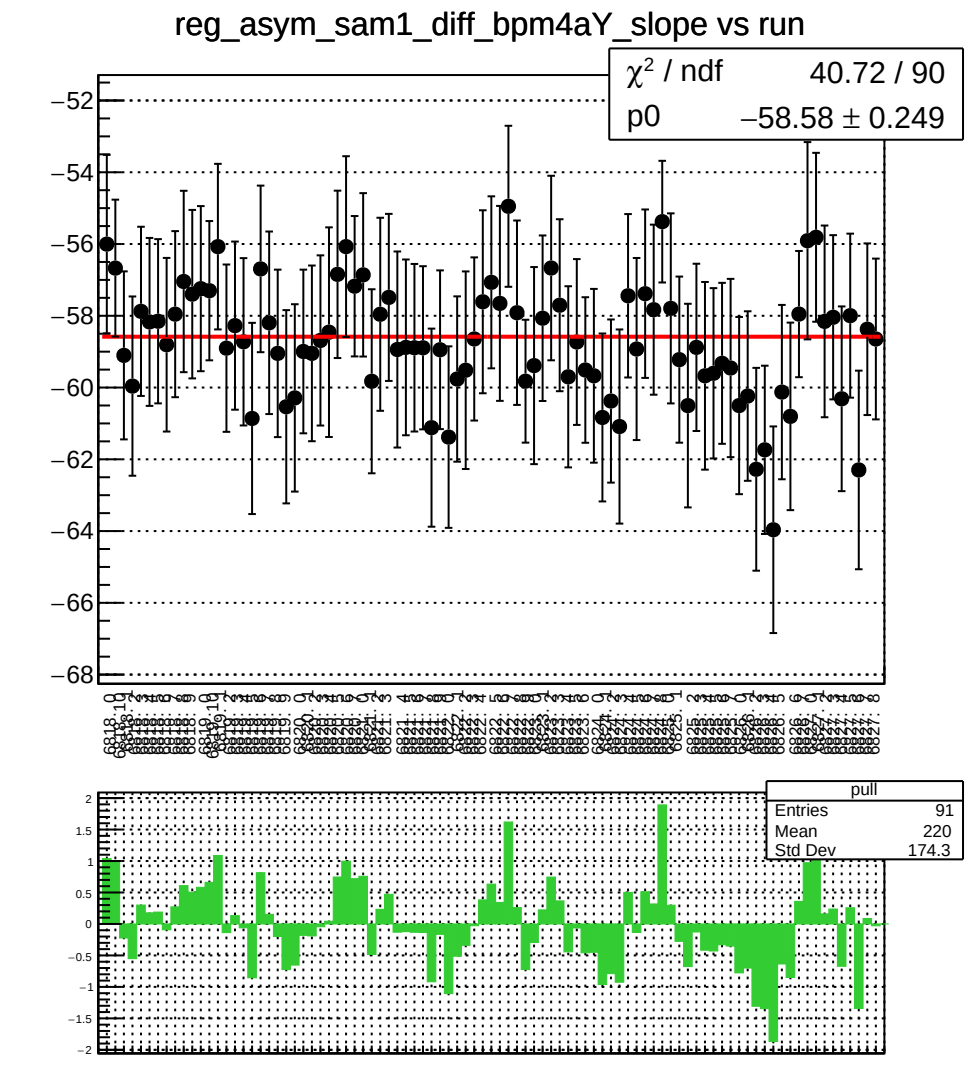

asym_sam_12345678_avg_mean vs run
χ² / ndf 71.98 / 90
p0 497.9 ± 627.3
pull
Entries 91
Mean −1793
Std Dev 1826

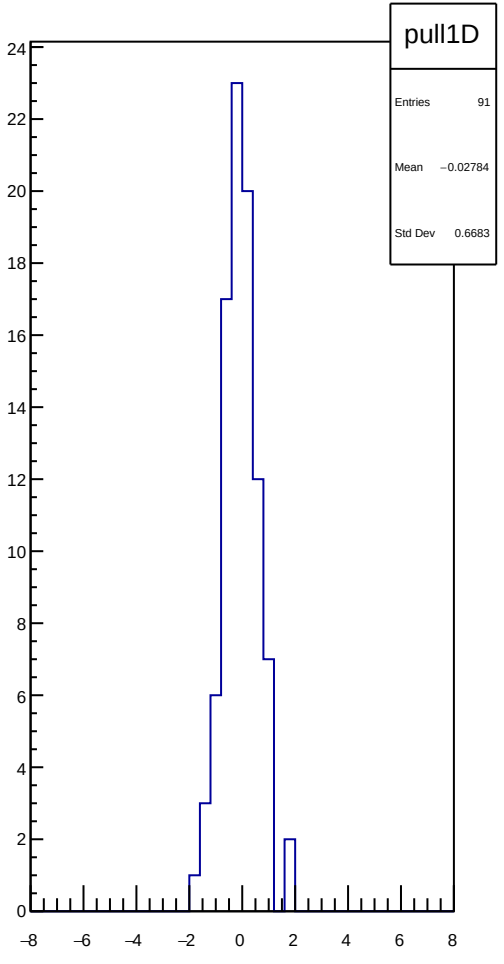

pull1D
Entries 91
Mean 0.000958
Std Dev 0.8893

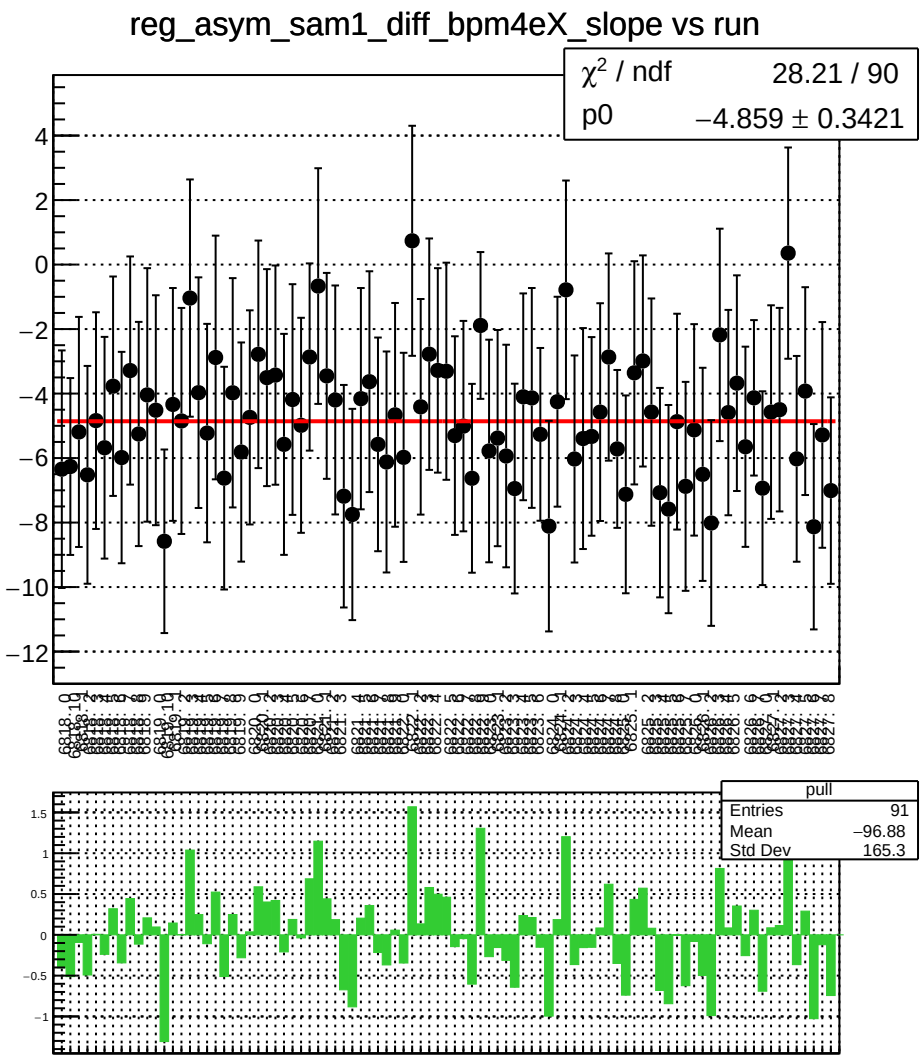

asym_sam_12345678_avg_rms vs run
χ² / ndf 3814 / 90
p0 582.8 ± 0.4436
660
640
620
600
580
560
540

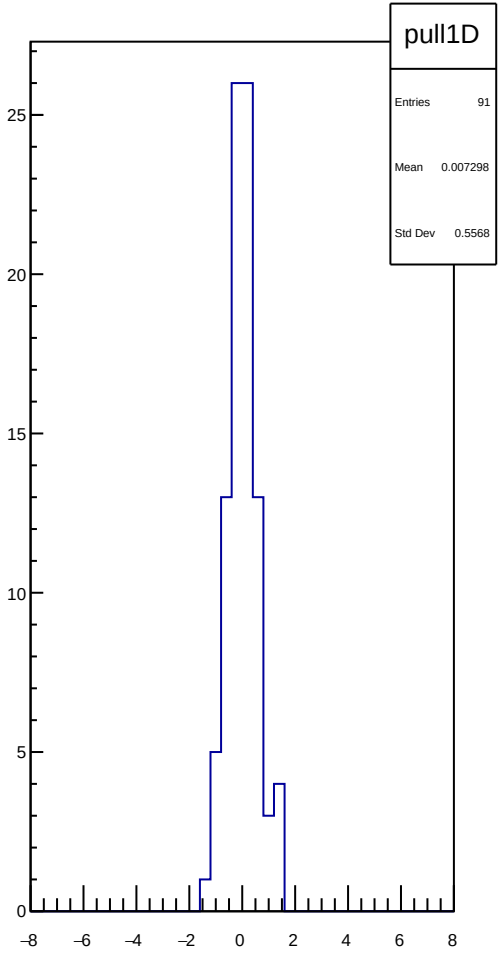

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 27.72 / 90
p0 −9.821 ± 0.3657
pull
Entries 91
Mean −87.26
Std Dev 149.8

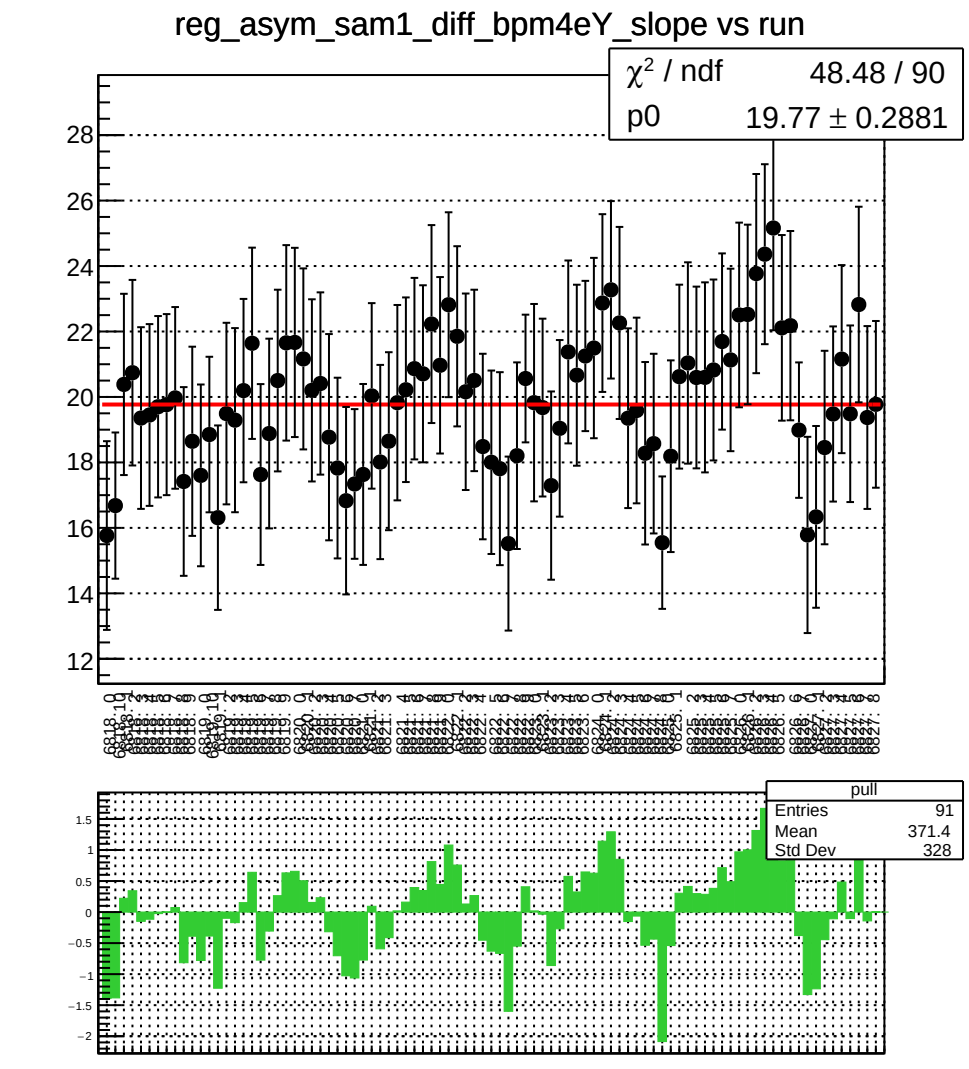

pull1D
Entries 91
Mean −0.009639
Std Dev 0.5518

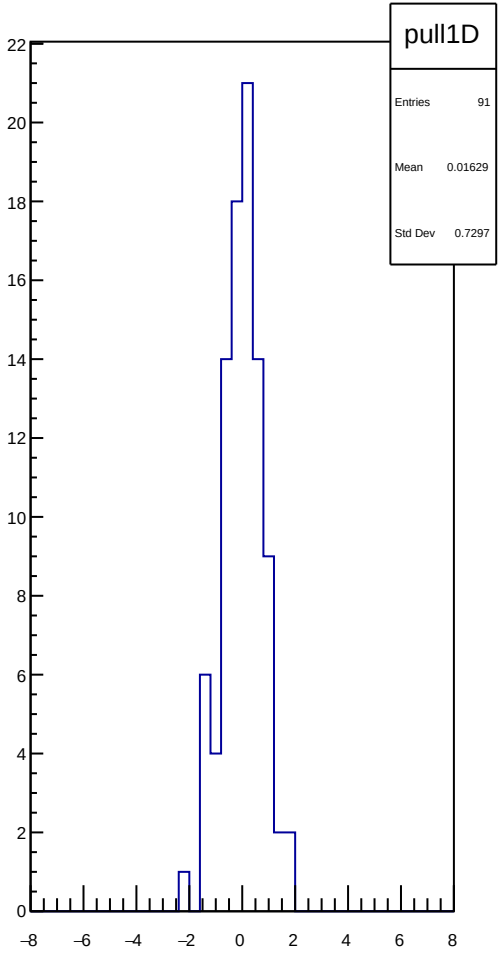

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 40.72 / 90
p0 −58.58 ± 0.249
pull
Entries 91
Mean 220
Std Dev 174.3

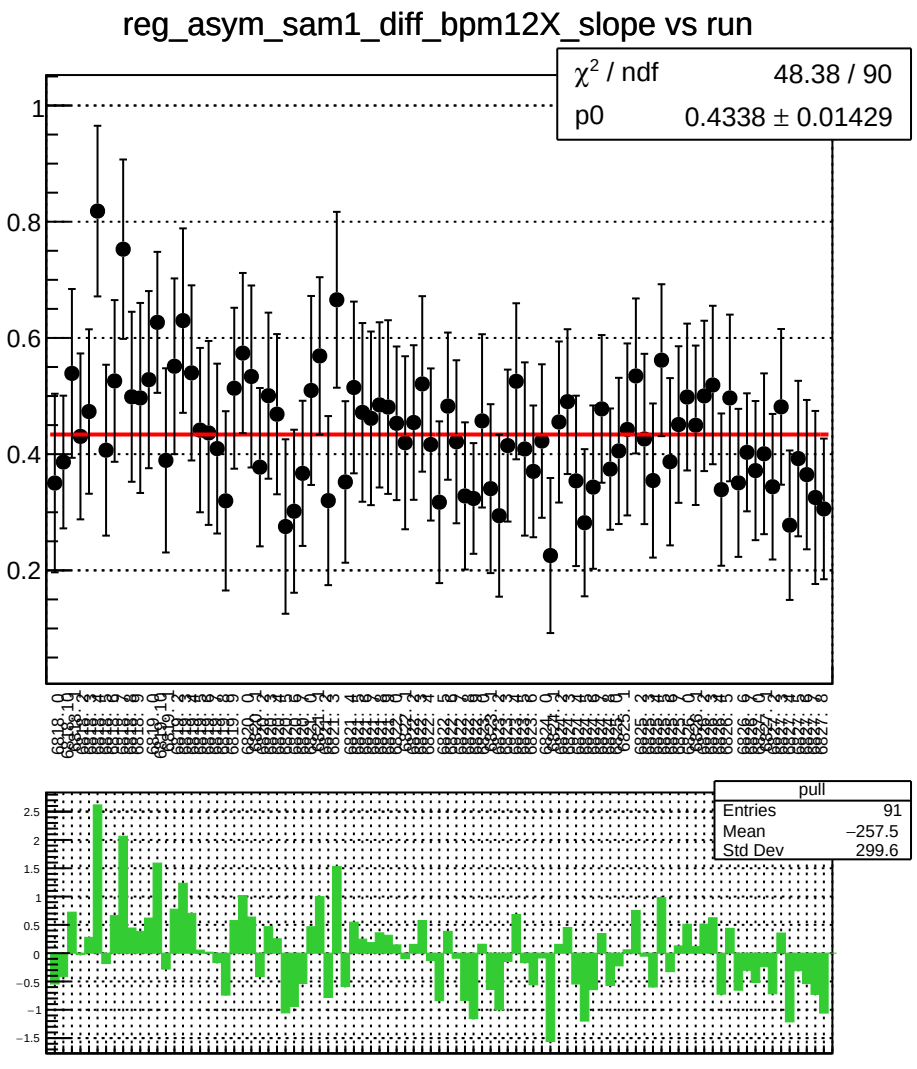

pull1D
Entries 91
Mean −0.02784
Std Dev 0.6683

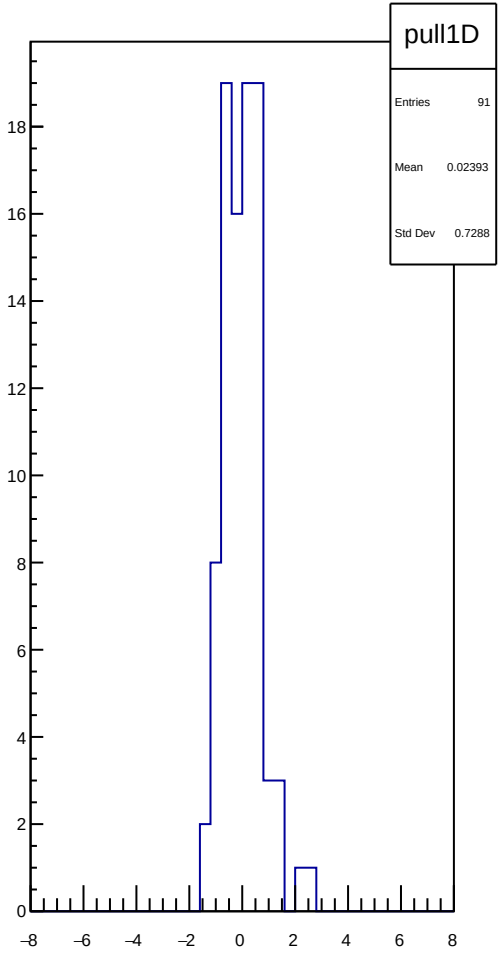

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 28.21 / 90
p0 −4.859 ± 0.3421
pull
Entries 91
Mean −96.88
Std Dev 165.3

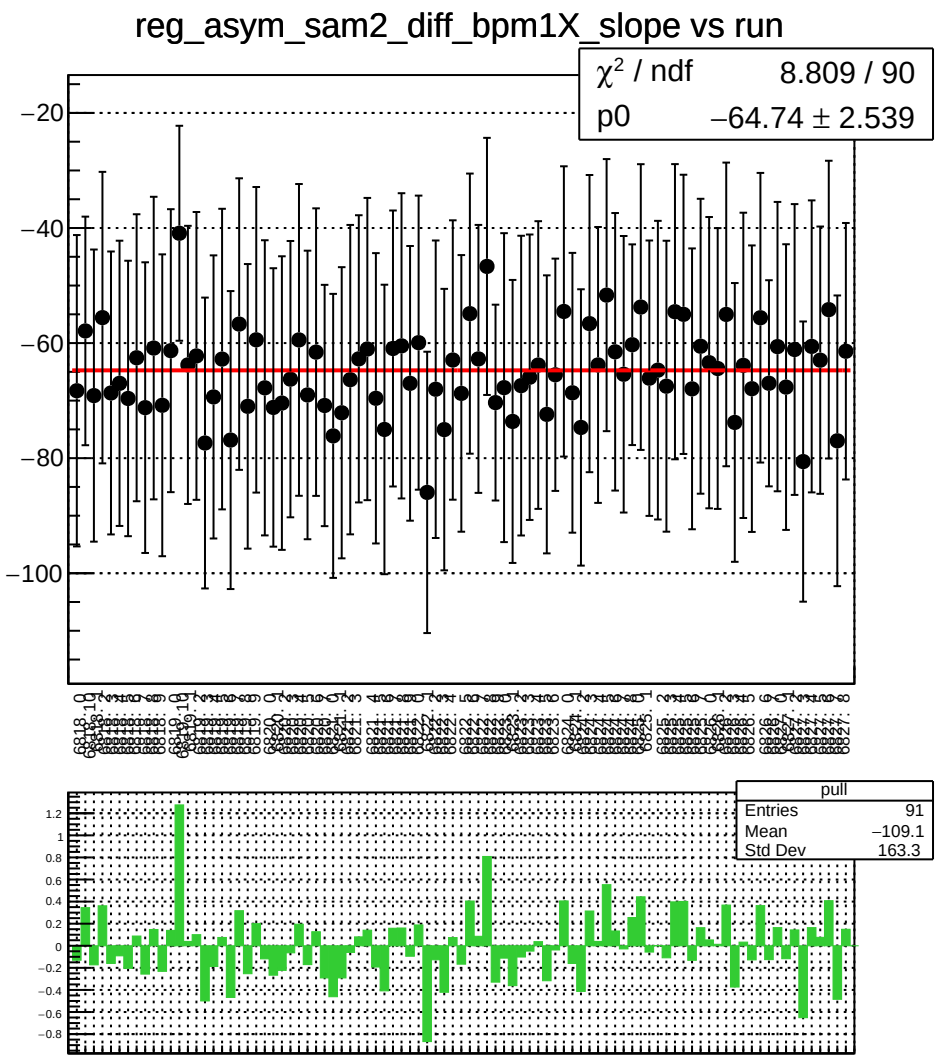

pull1D
Entries 91
Mean 0.007298
Std Dev 0.5568

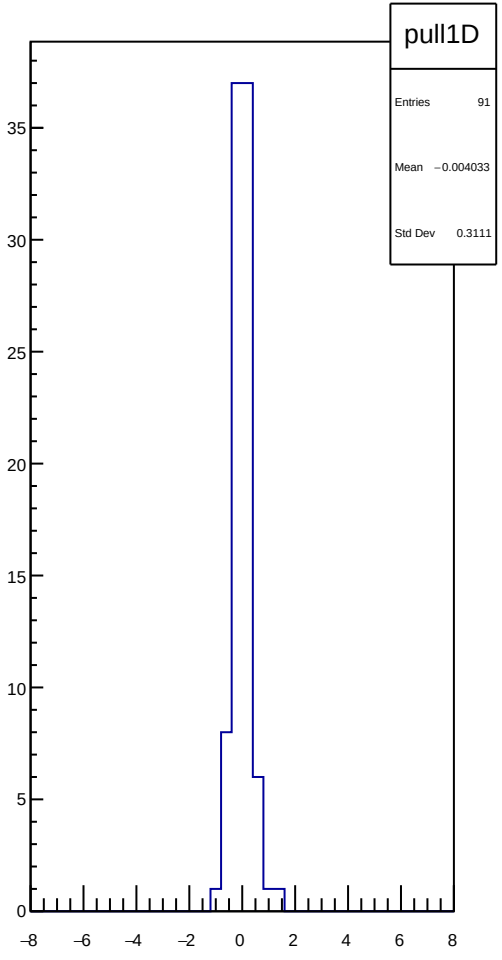

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 48.48 / 90
p0 19.77 ± 0.2881
pull
Entries 91
Mean 371.4
Std Dev 328

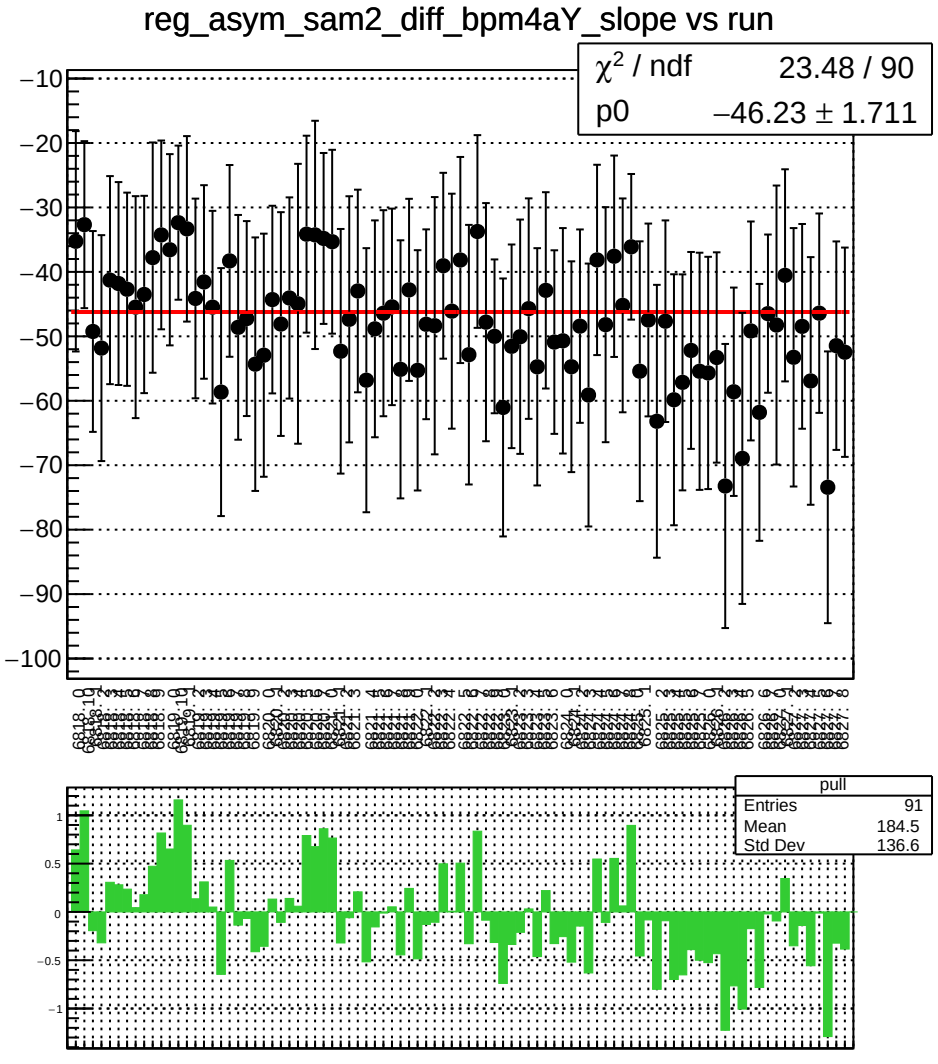

pull1D
Entries 91
Mean 0.01629
Std Dev 0.7297

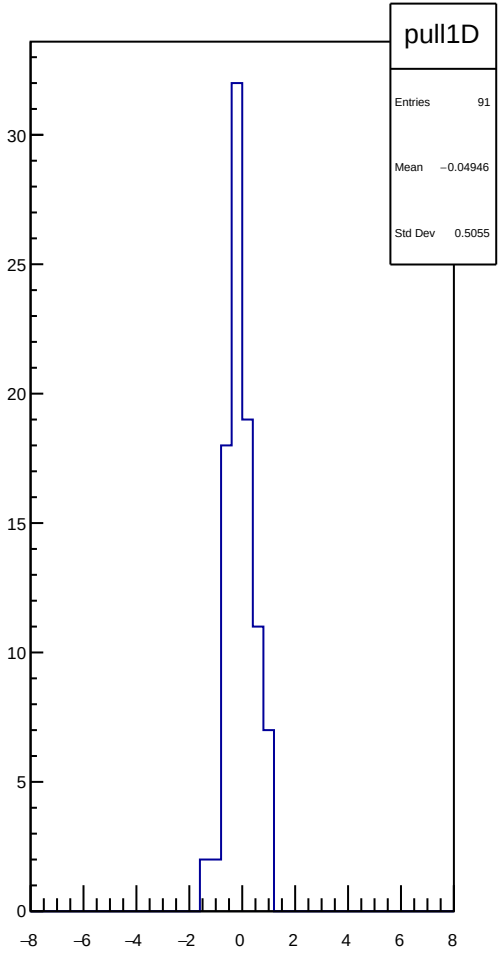

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 48.38 / 90
p0 0.4338 ± 0.01429
pull
Entries 91
Mean −257.5
Std Dev 299.6

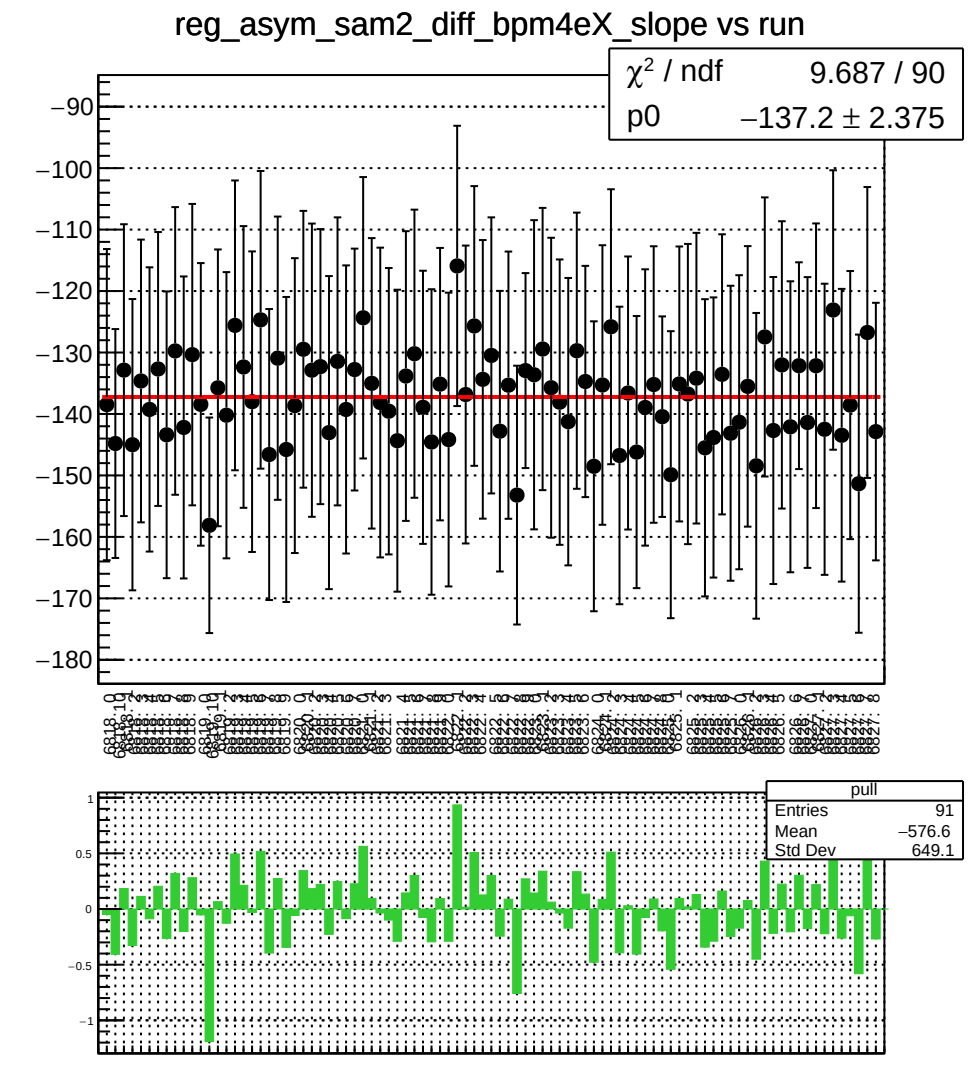

pull1D
Entries 91
Mean 0.02393
Std Dev 0.7288

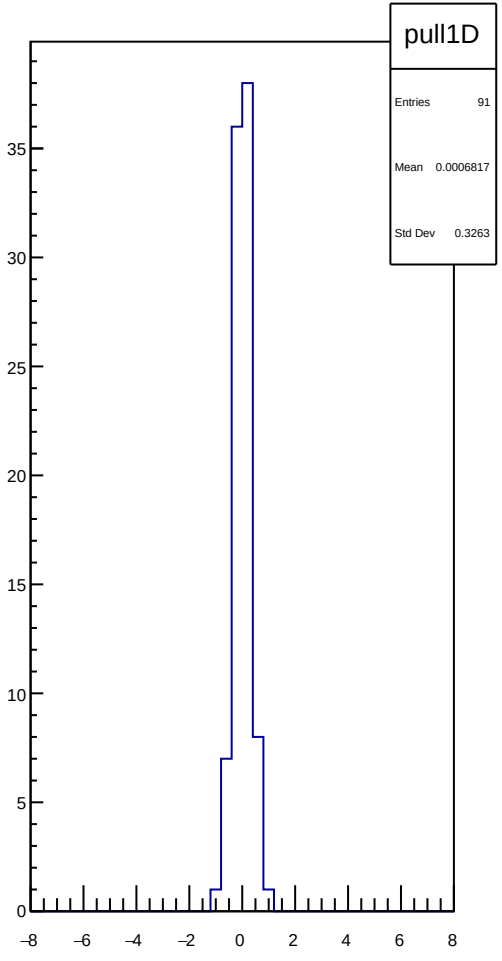

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 8.809 / 90
p0 −64.74 ± 2.539
pull
Entries 91
Mean −109.1
Std Dev 163.3

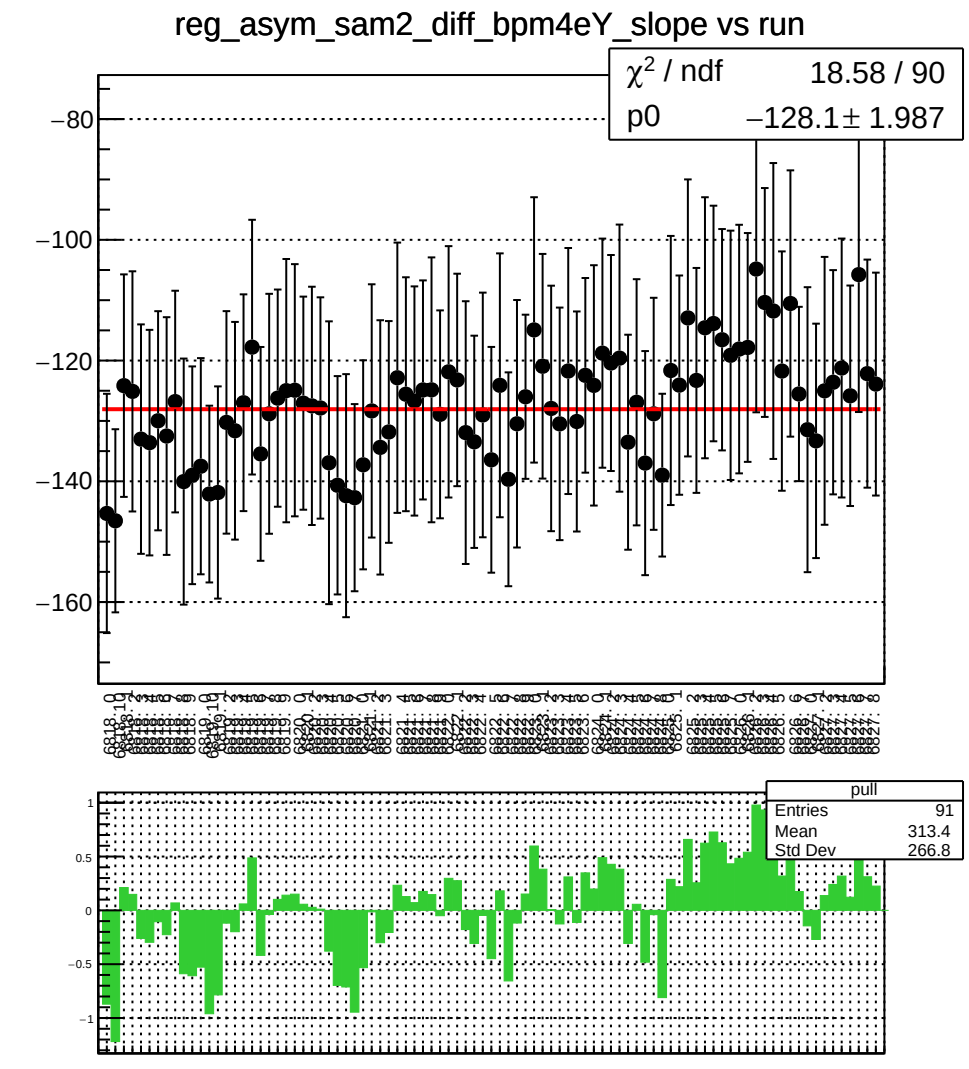

pull1D
Entries 91
Mean −0.004033
Std Dev 0.3111

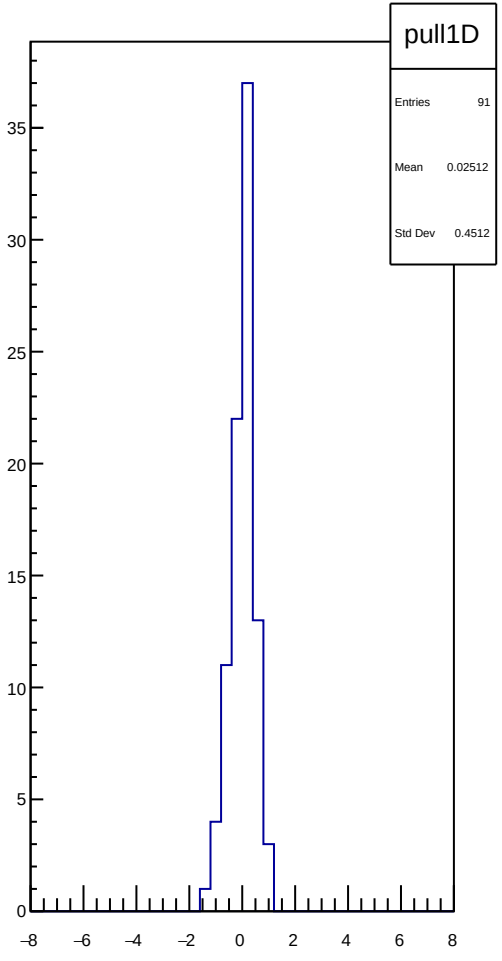

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 23.48 / 90
p0 −46.23 ± 1.711
pull
Entries 91
Mean 184.5
Std Dev 136.6

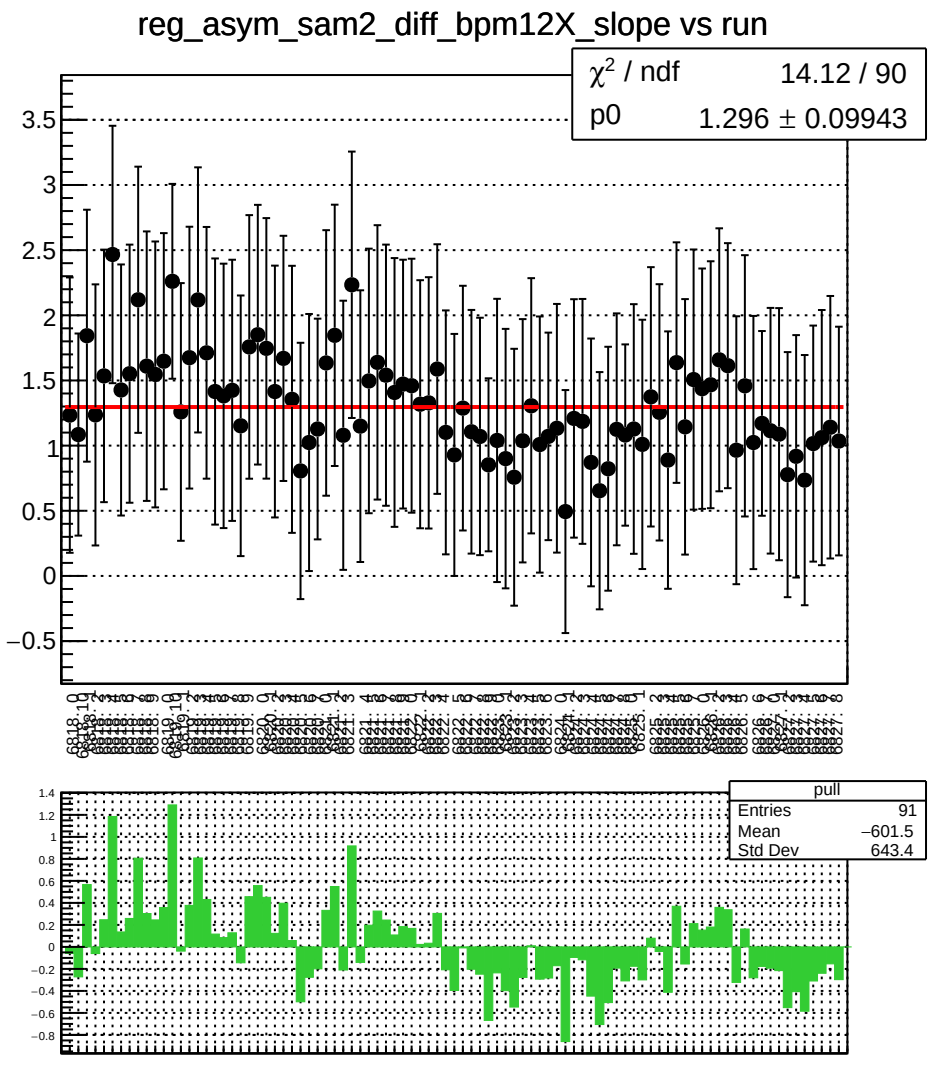

pull1D
Entries 91
Mean −0.04946
Std Dev 0.5055

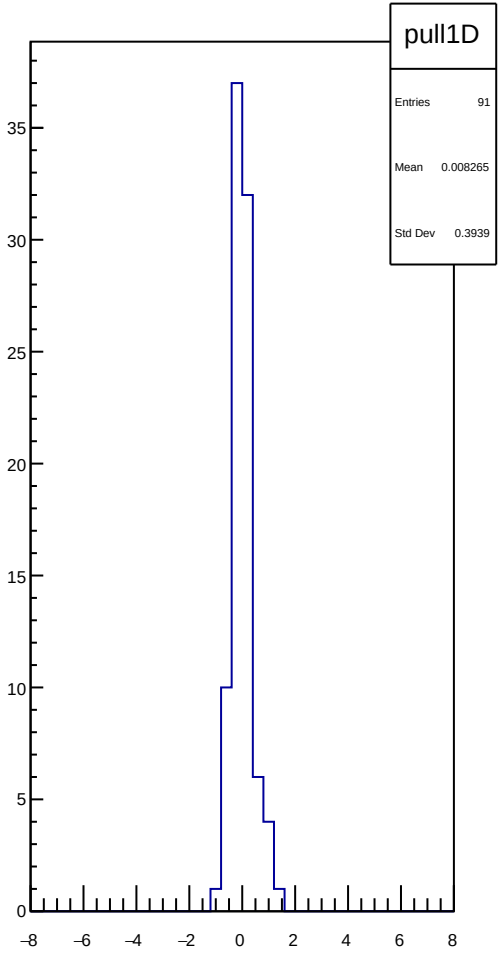

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 9.687 / 90
p0 −137.2 ± 2.375
pull
Entries 91
Mean −576.6
Std Dev 649.1

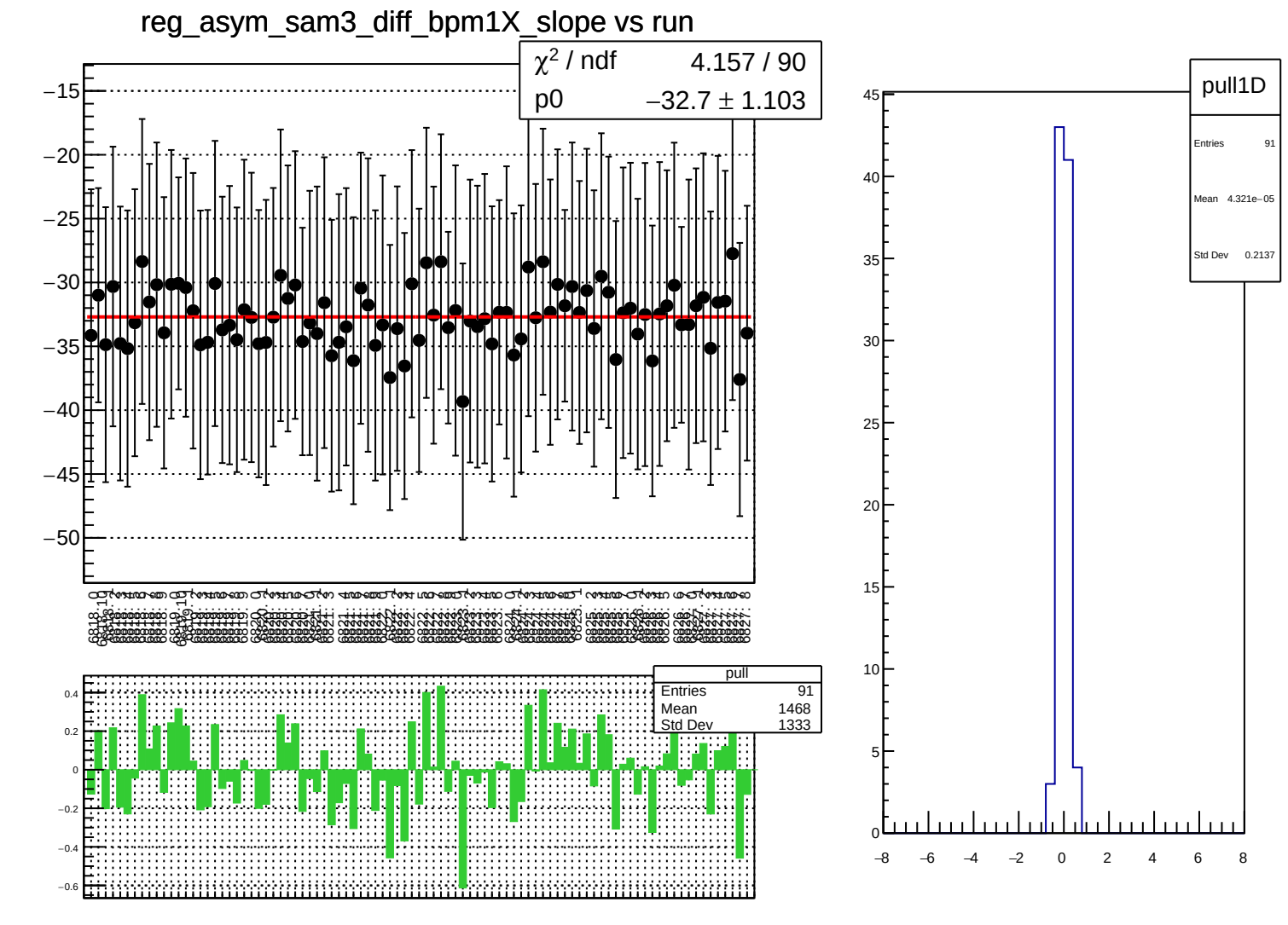

pull1D
Entries 91
Mean 0.0006817
Std Dev 0.3263

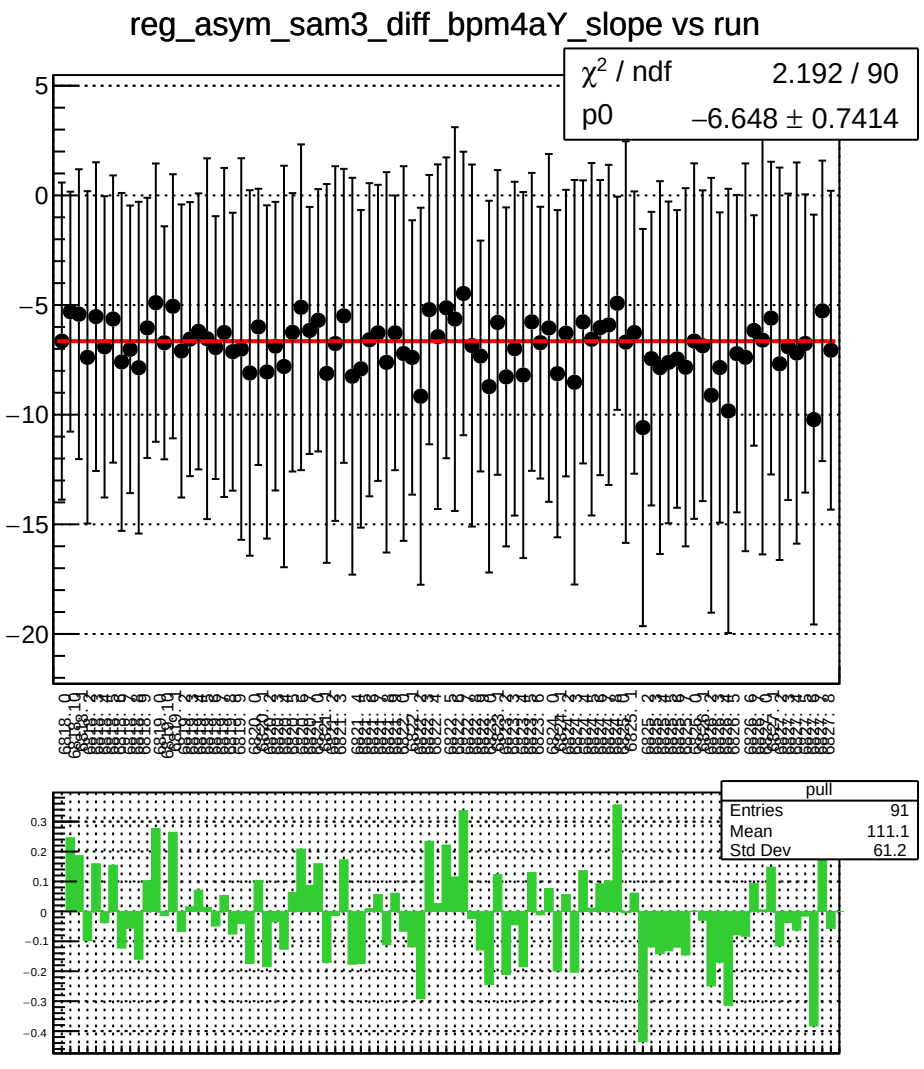

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 18.58 / 90
p0 −128.1± 1.987
−80
−100
−120
−140
−160
pull
Entries 91
Mean 313.4
Std Dev 266.8
1
0.5
0
−0.5
−1

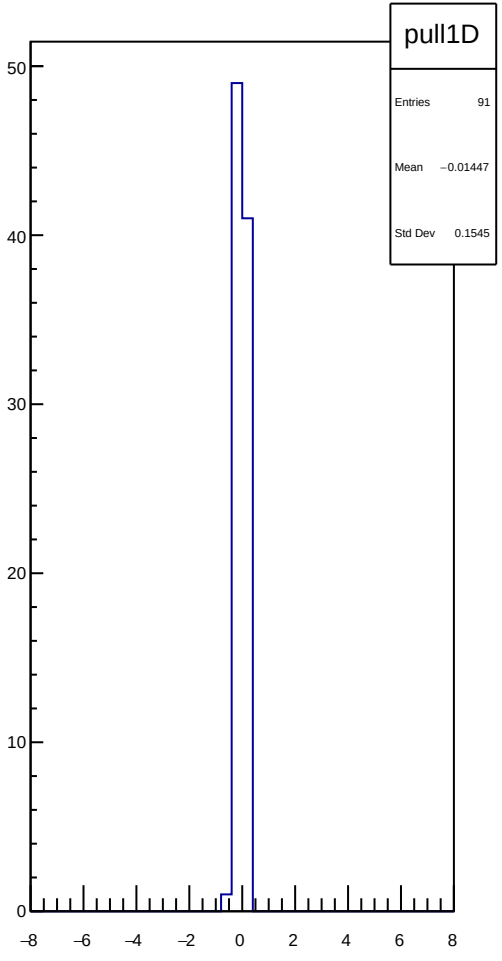

pull1D
Entries 91
Mean 0.02512
Std Dev 0.4512
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

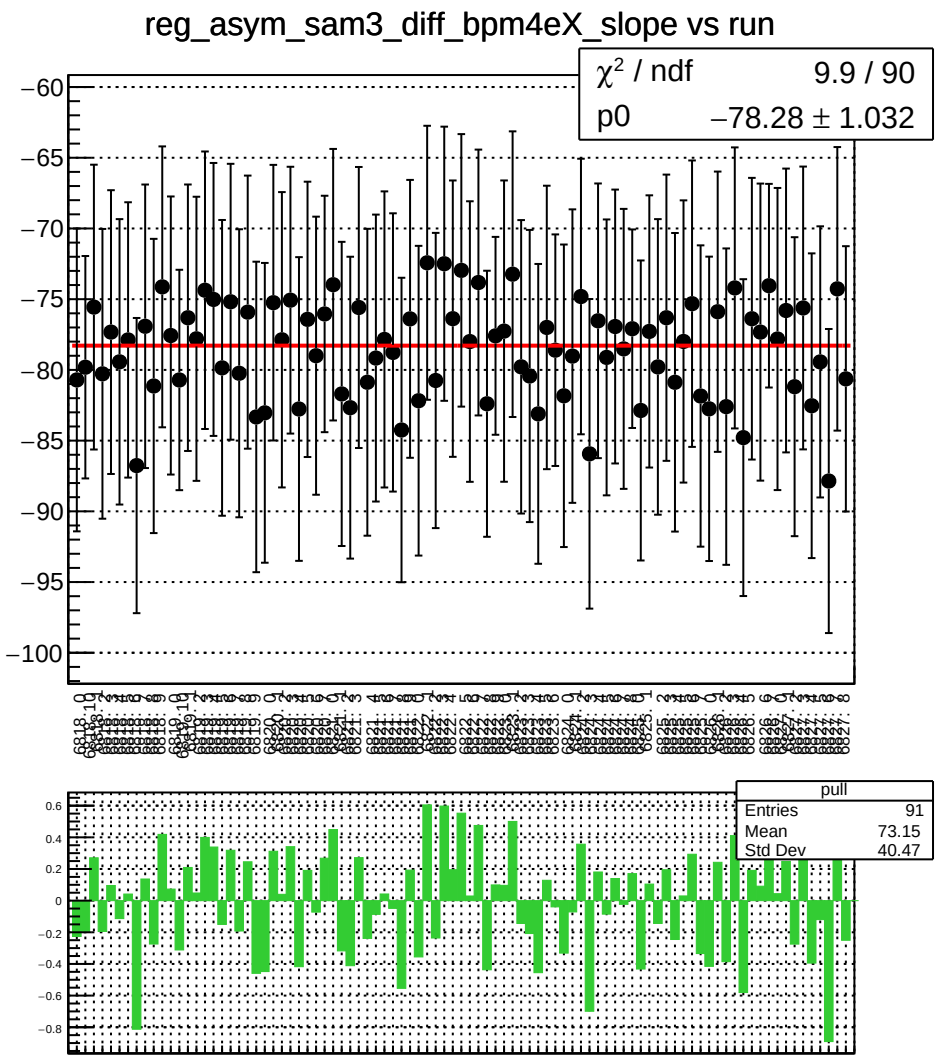

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 14.12 / 90
p0 1.296 ± 0.09943
pull
Entries 91
Mean −601.5
Std Dev 643.4

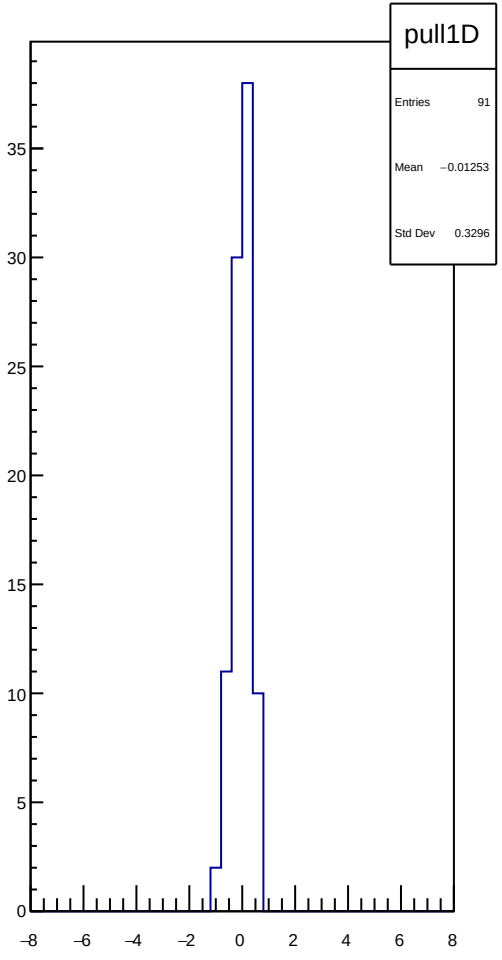

pull1D
Entries 91
Mean 0.008265
Std Dev 0.3939

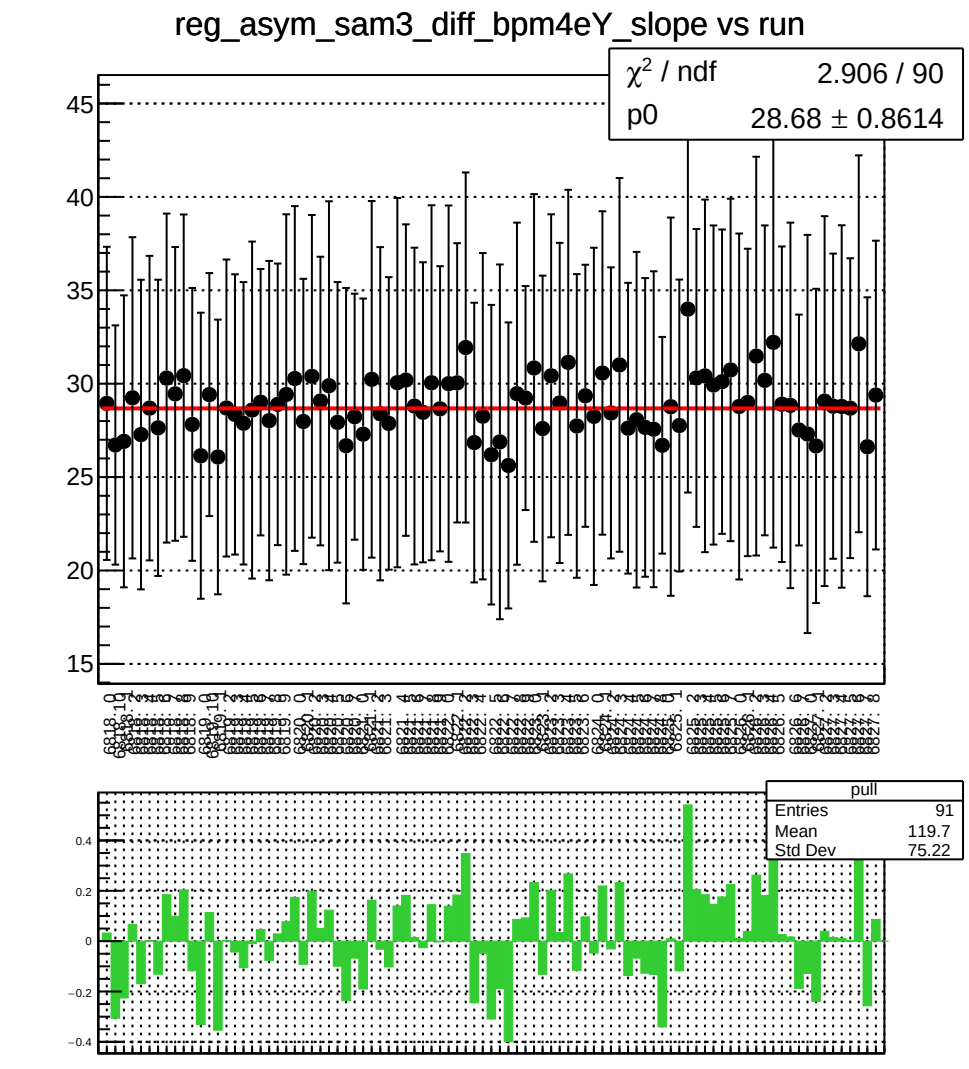

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 4.157 / 90
p0 −32.7 ± 1.103
pull
Entries 91
Mean 1468
Std Dev 1333
pull1D
Entries 91
Mean 4.321e−05
Std Dev 0.2137

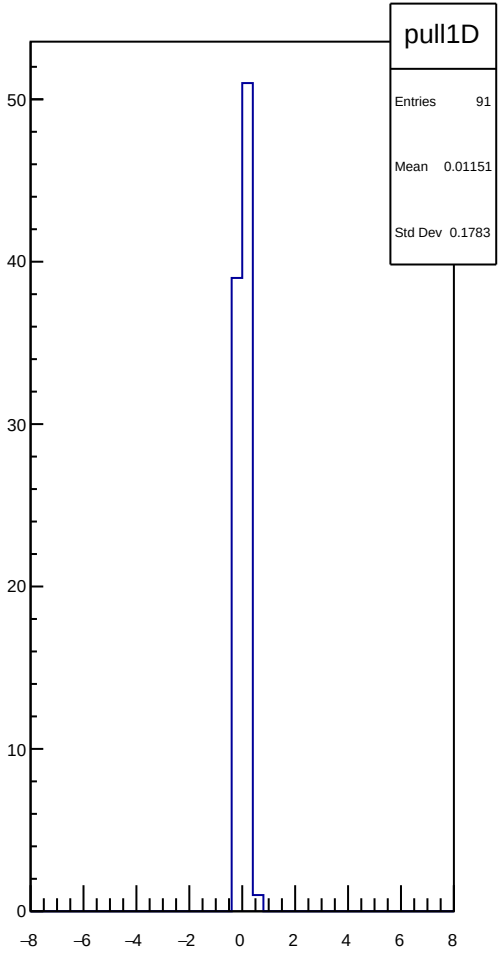

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.192 / 90
p0 −6.648 ± 0.7414
pull
Entries 91
Mean 111.1
Std Dev 61.2

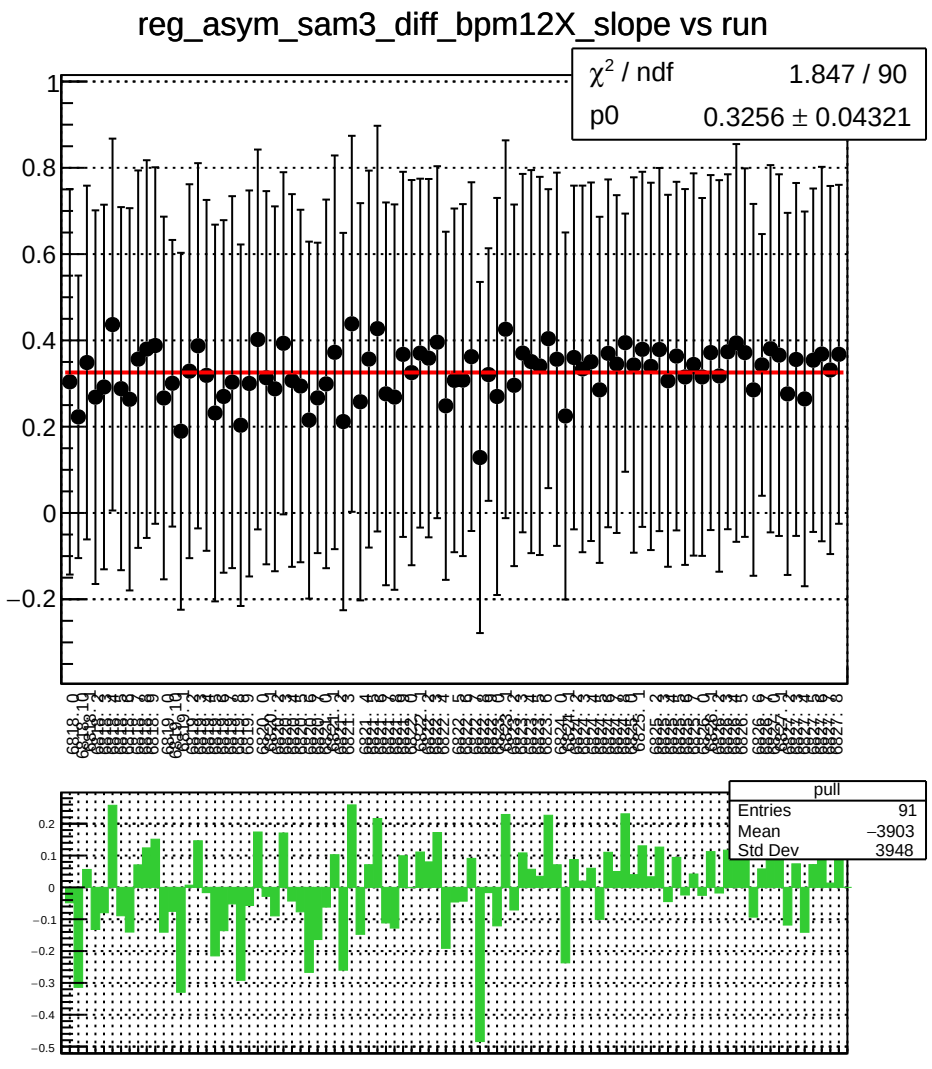

pull1D
Entries 91
Mean −0.01447
Std Dev 0.1545

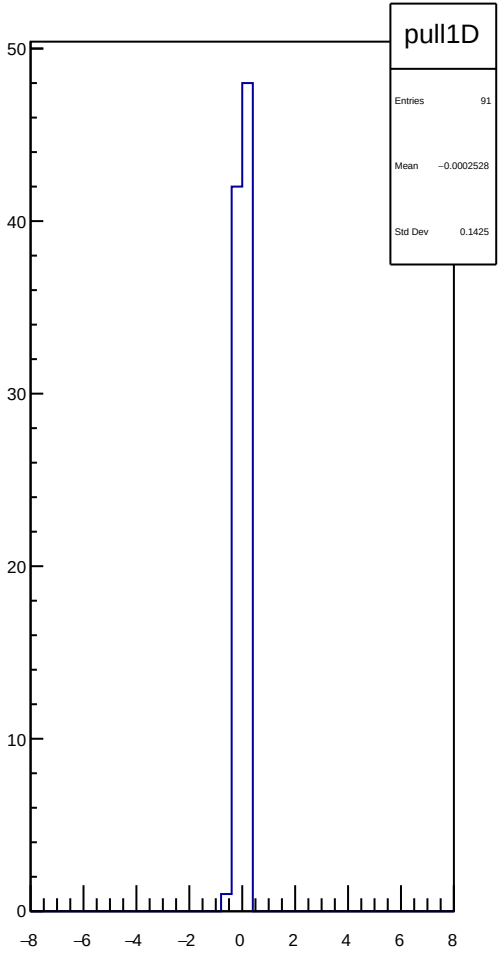

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 9.9 / 90
p0 −78.28 ± 1.032
pull
Entries 91
Mean 73.15
Std Dev 40.47

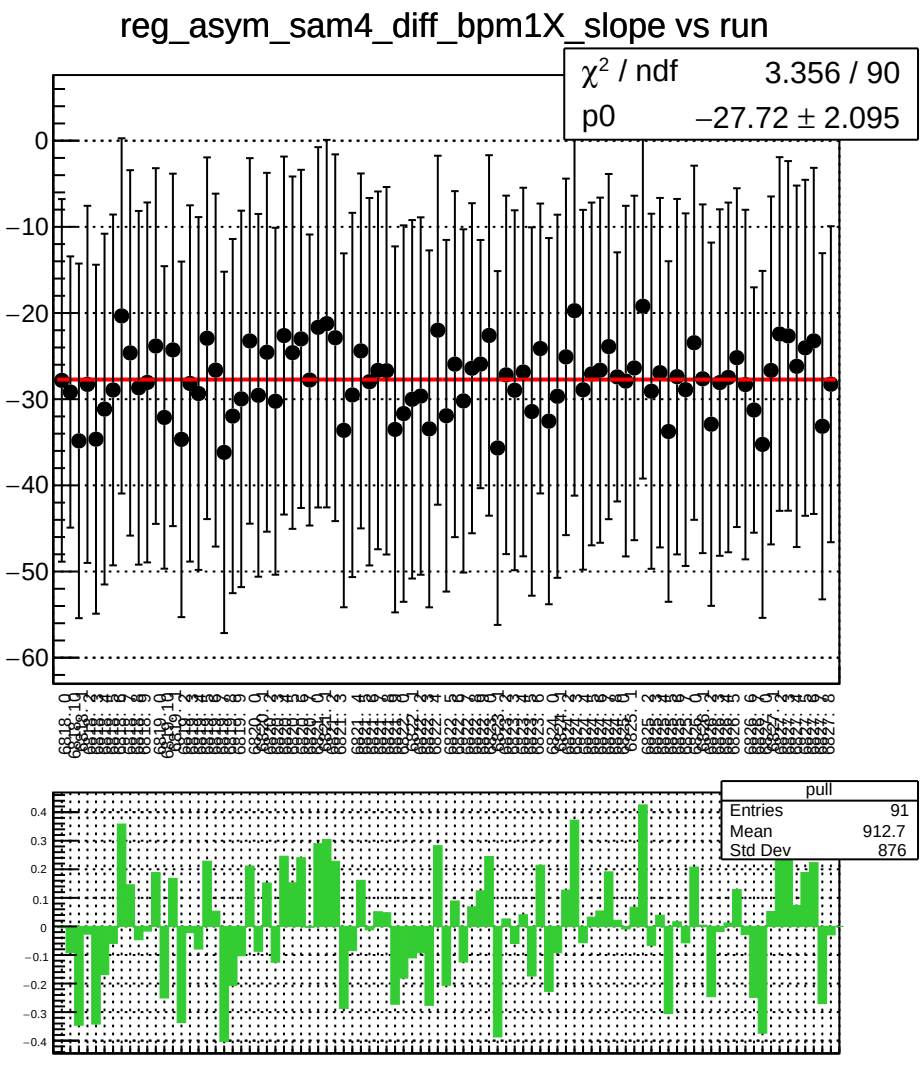

pull1D
Entries 91
Mean −0.01253
Std Dev 0.3296

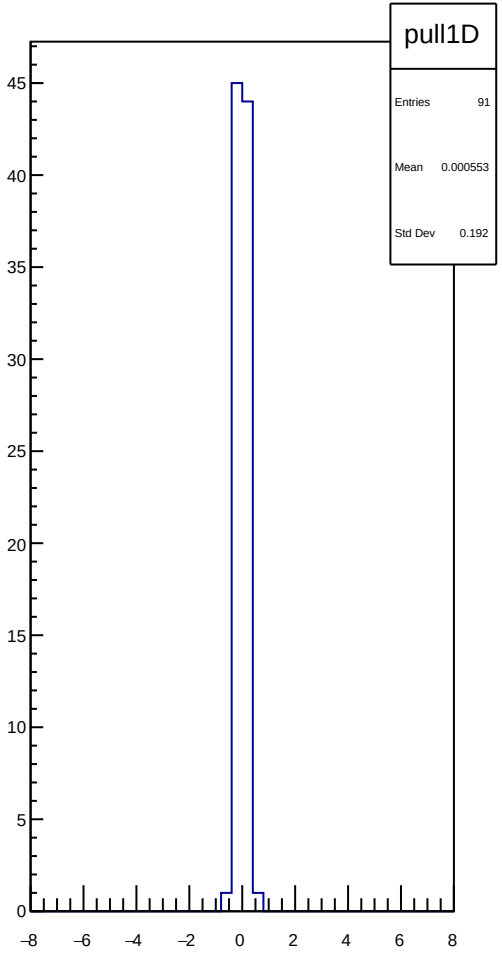

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.906 / 90
p0 28.68 ± 0.8614
pull
Entries 91
Mean 119.7
Std Dev 75.22

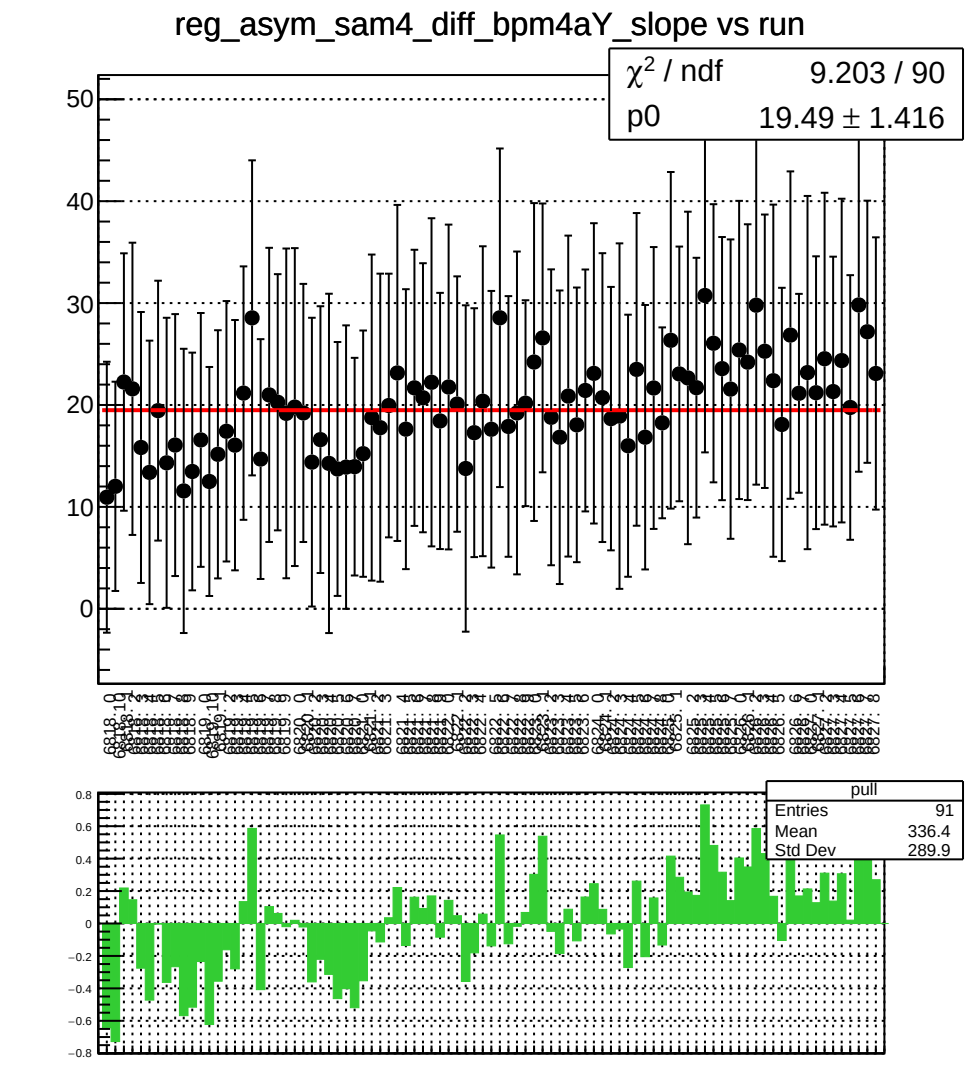

pull1D
Entries 91
Mean 0.01151
Std Dev 0.1783

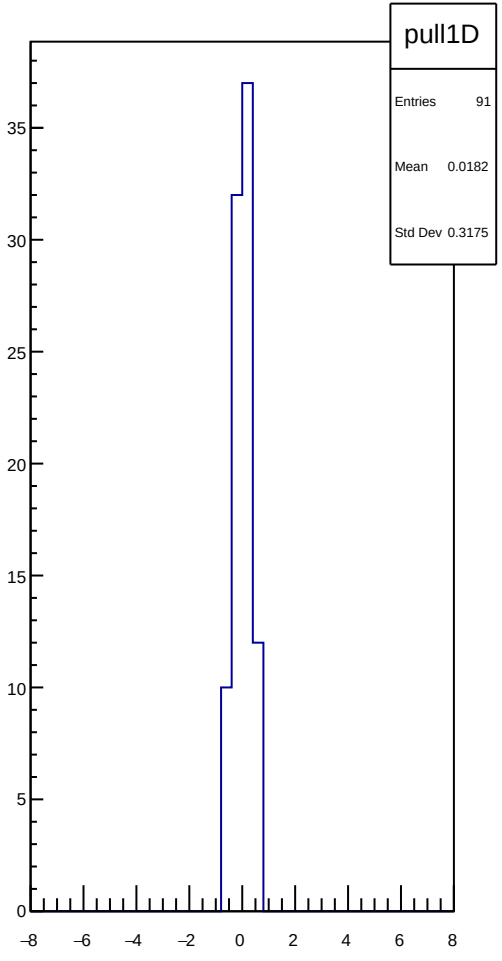

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.847 / 90
p0 0.3256 ± 0.04321
pull
Entries 91
Mean −3903
Std Dev 3948

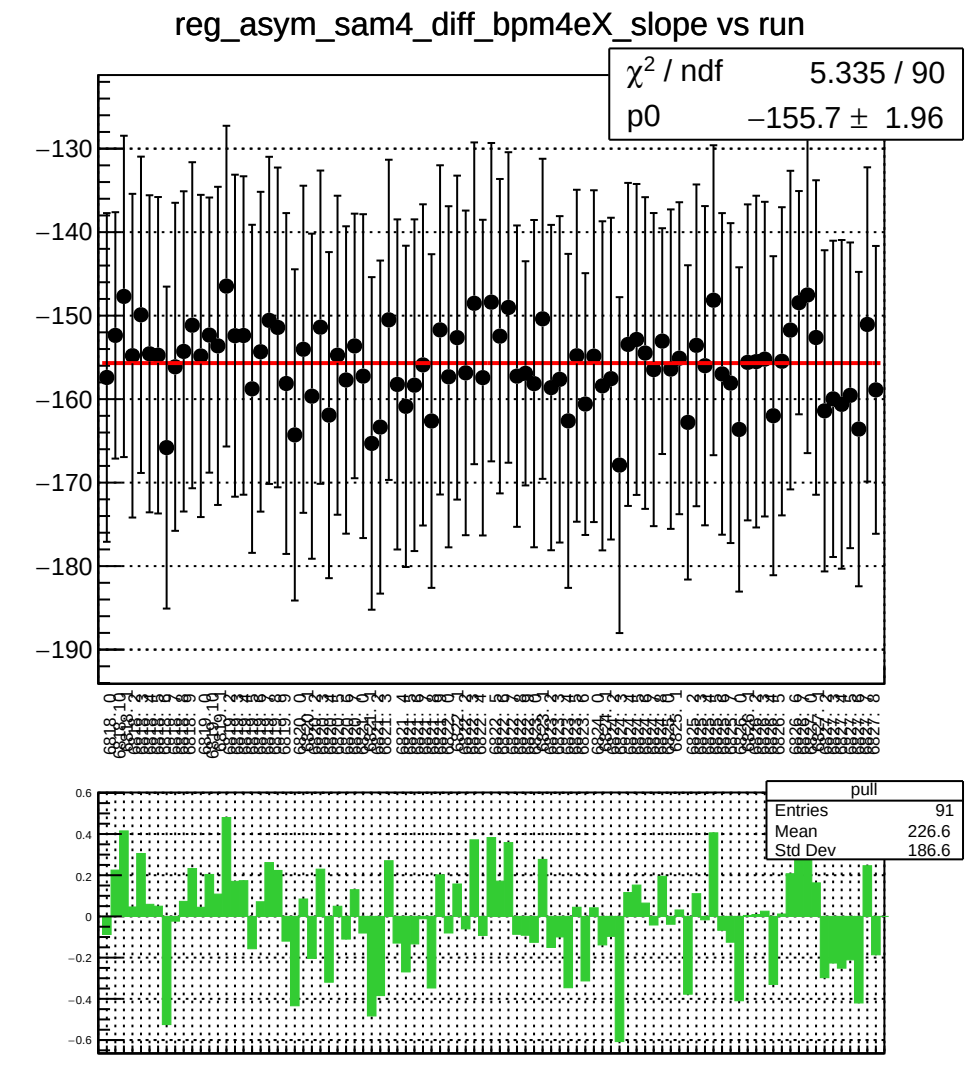

pull1D
Entries 91
Mean −0.0002528
Std Dev 0.1425

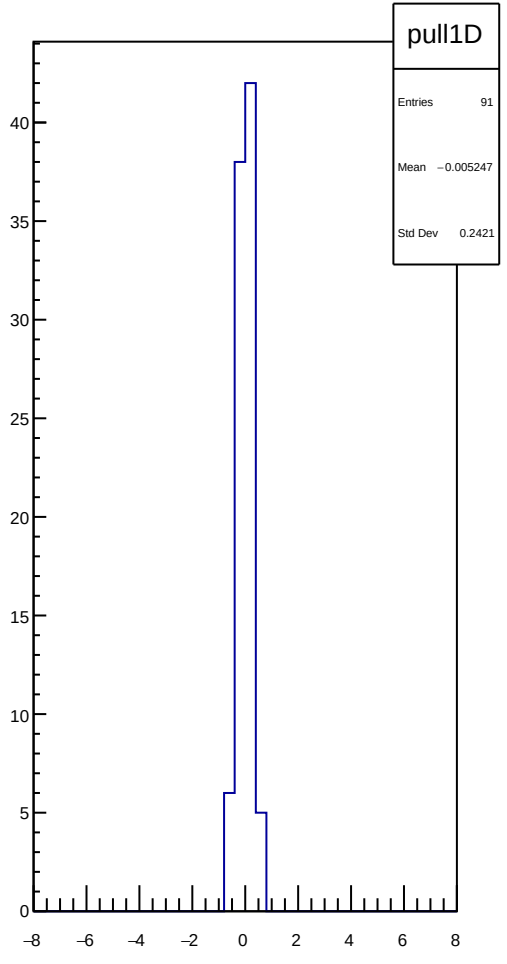

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 3.356 / 90
p0 −27.72 ± 2.095
pull
Entries 91
Mean 912.7
Std Dev 876

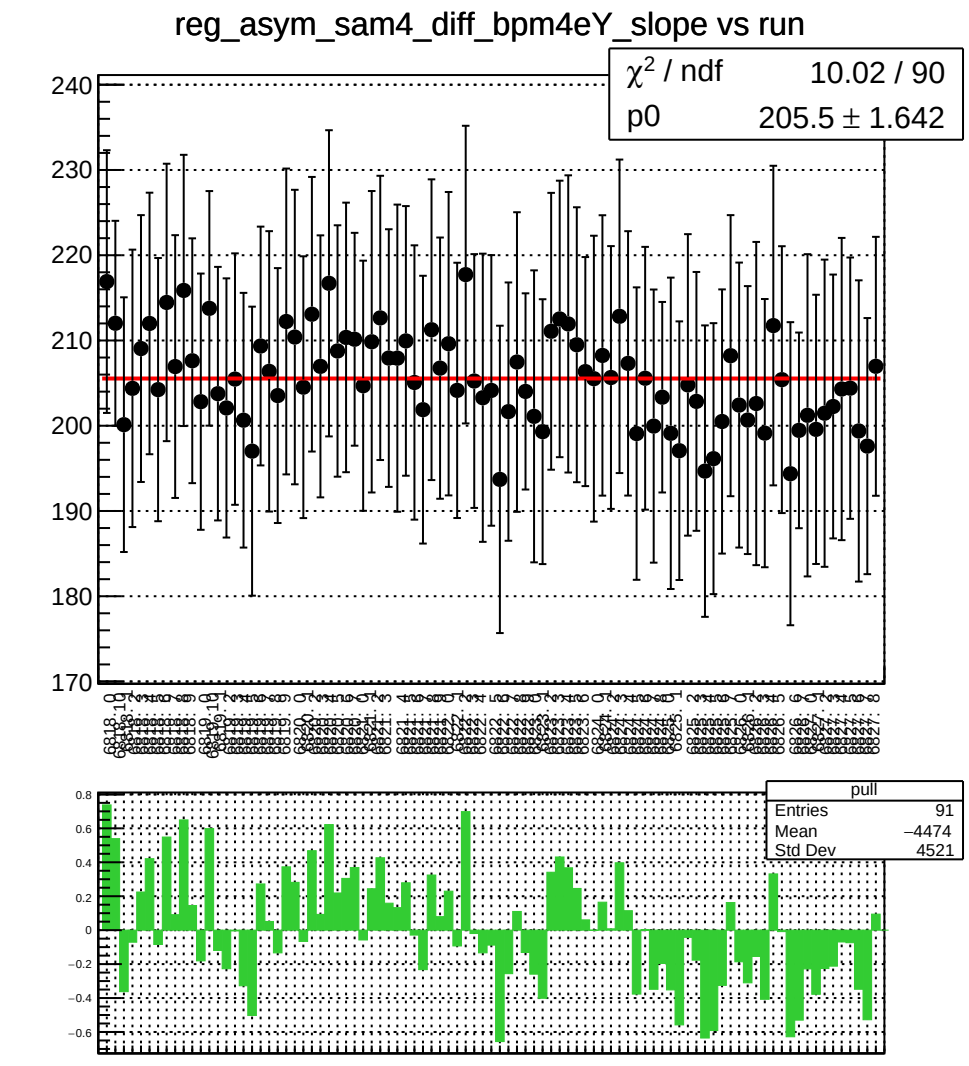

pull1D
Entries 91
Mean 0.000553
Std Dev 0.192

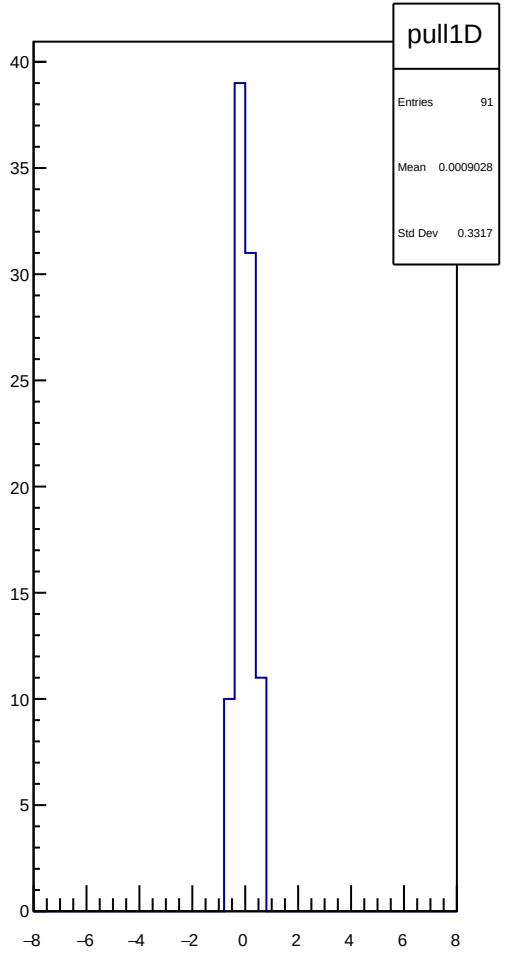

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 9.203 / 90
p0 19.49 ± 1.416
pull
Entries 91
Mean 336.4
Std Dev 289.9

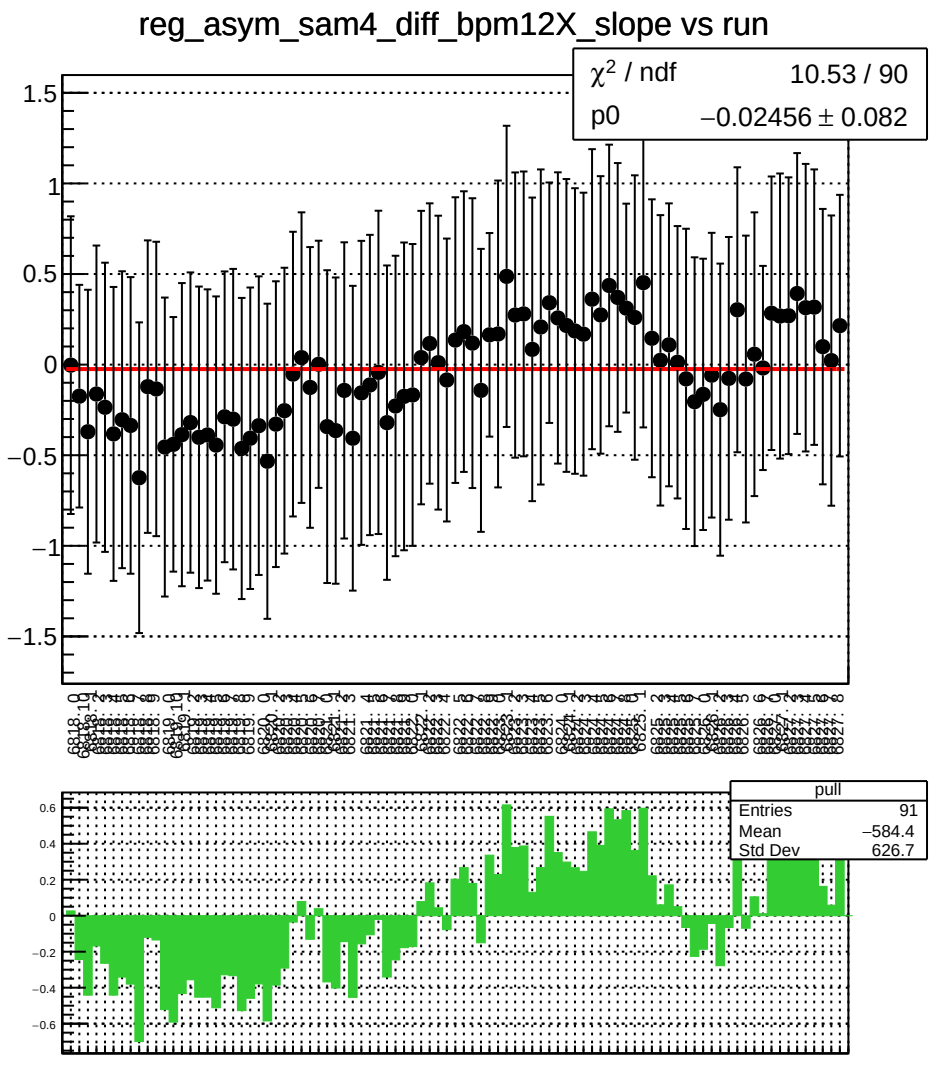

pull1D
Entries 91
Mean 0.0182
Std Dev 0.3175

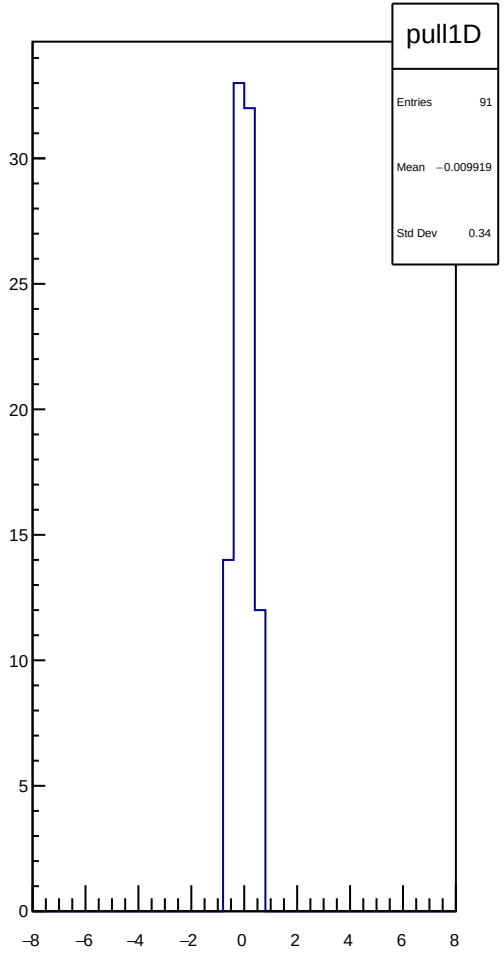

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 5.335 / 90
p0 −155.7 ± 1.96
−130
−140
−150
−160
−170
−180
−190
pull
Entries 91
Mean 226.6
Std Dev 186.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

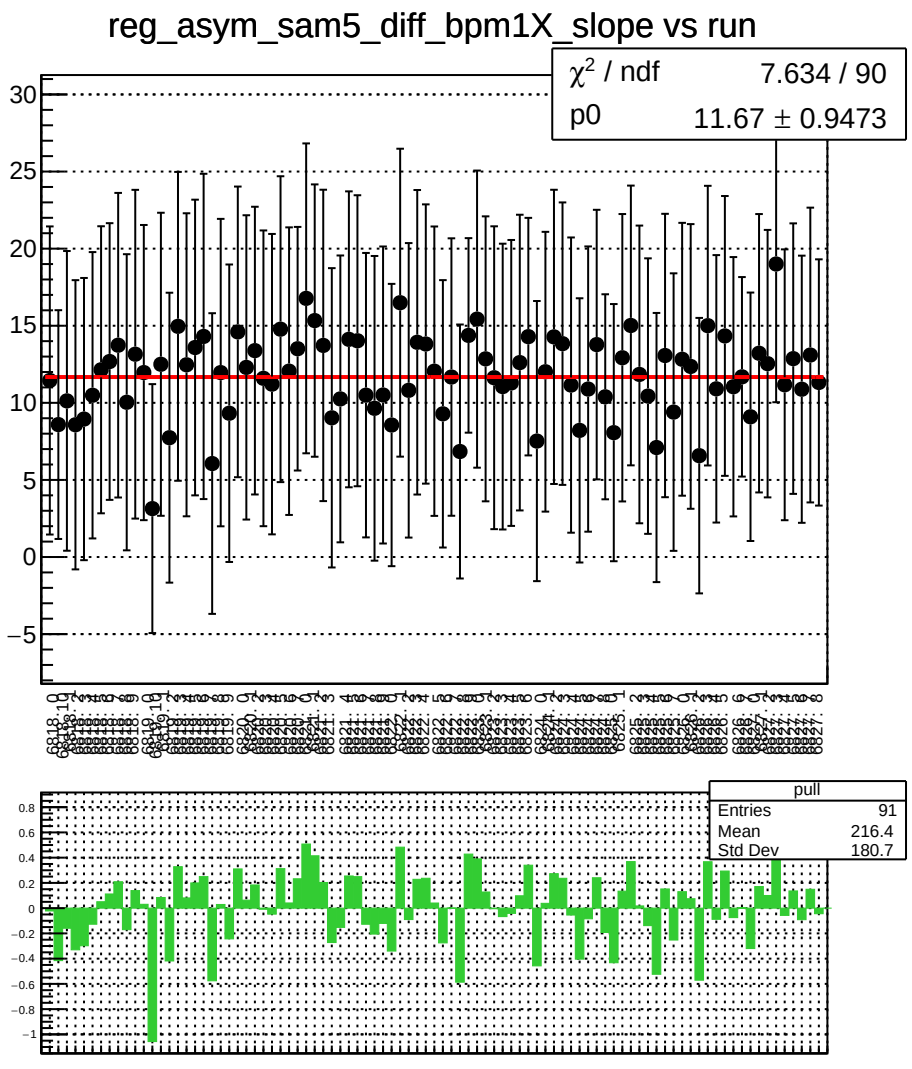

pull1D
Entries 91
Mean −0.005247
Std Dev 0.2421
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

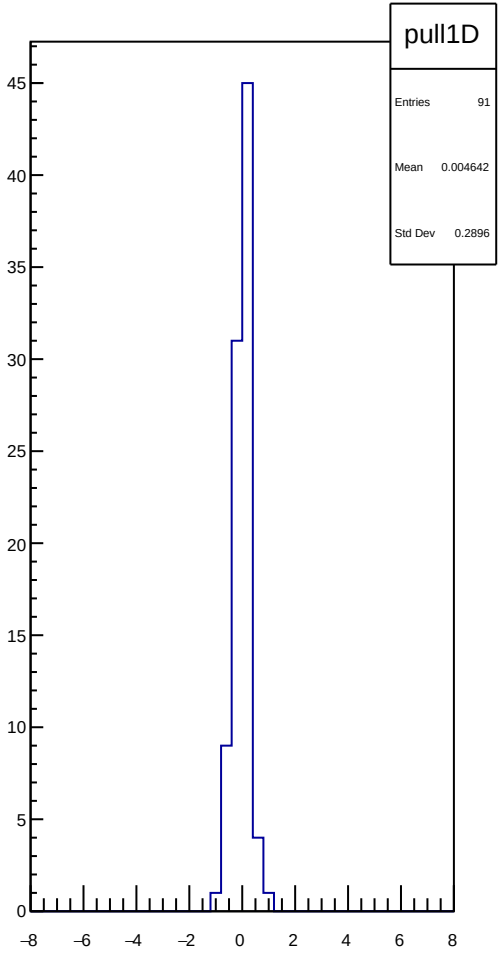

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 10.02 / 90
p0 205.5 ± 1.642
pull
Entries 91
Mean −4474
Std Dev 4521

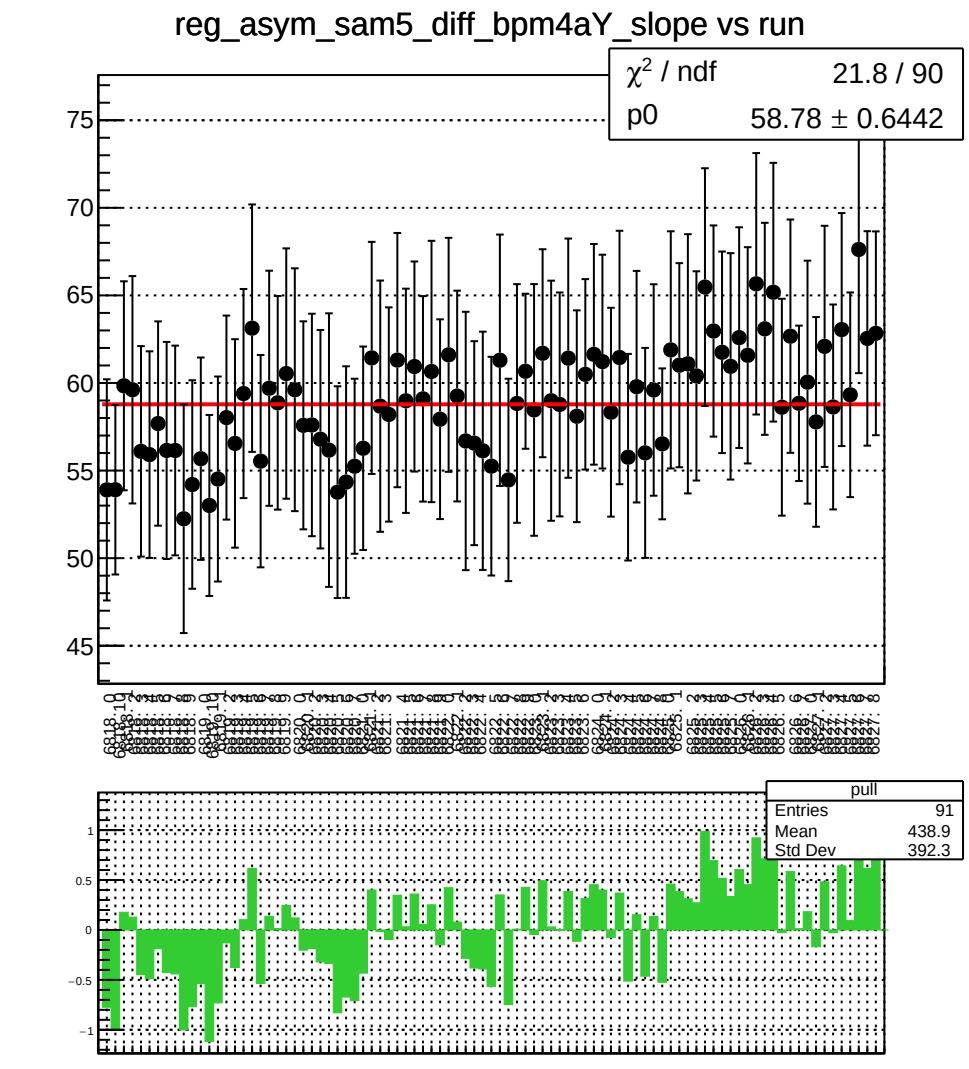

pull1D
Entries 91
Mean 0.0009028
Std Dev 0.3317

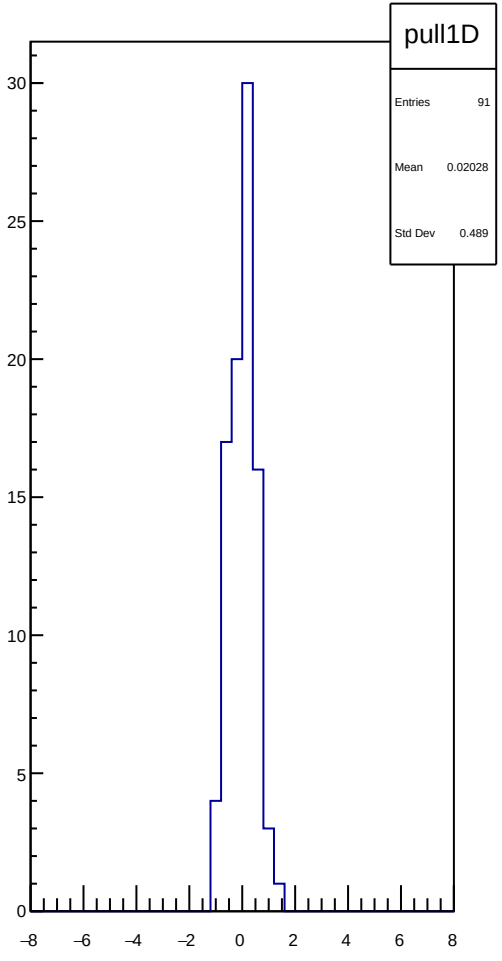

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 10.53 / 90
p0 −0.02456 ± 0.082
pull
Entries 91
Mean −584.4
Std Dev 626.7

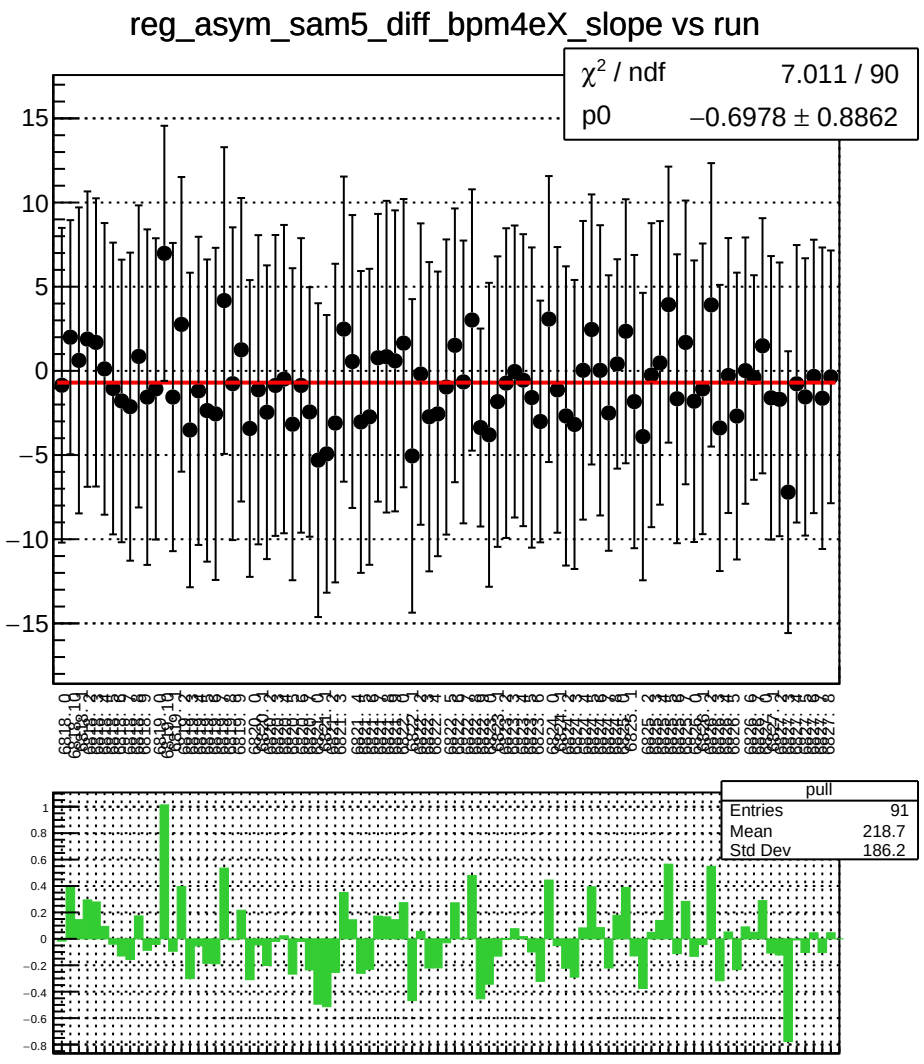

pull1D
Entries 91
Mean −0.009919
Std Dev 0.34

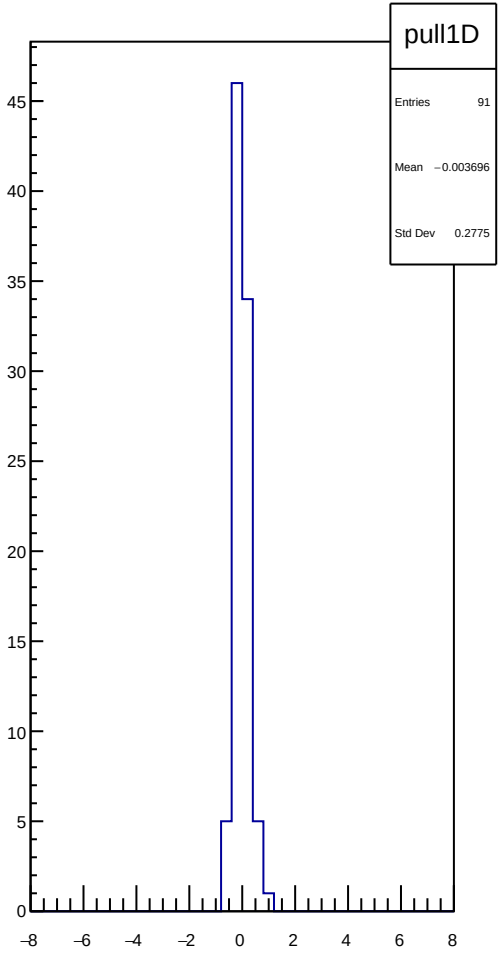

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 7.634 / 90
p0 11.67 ± 0.9473
pull
Entries 91
Mean 216.4
Std Dev 180.7

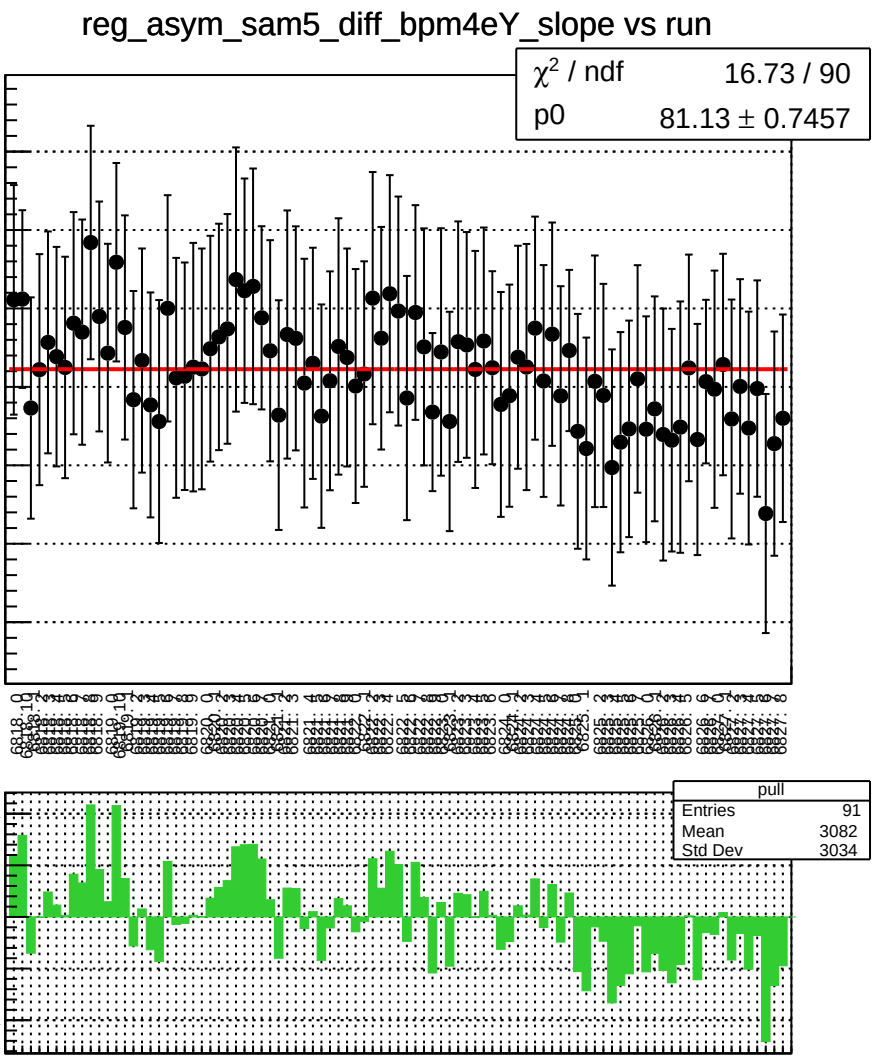

pull1D
Entries 91
Mean 0.004642
Std Dev 0.2896

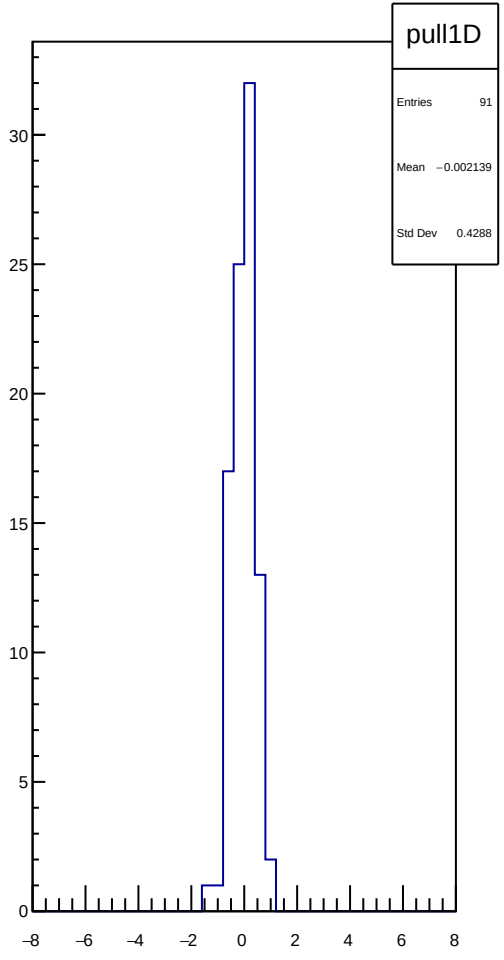

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 21.8 / 90
p0 58.78 ± 0.6442
pull
Entries 91
Mean 438.9
Std Dev 392.3

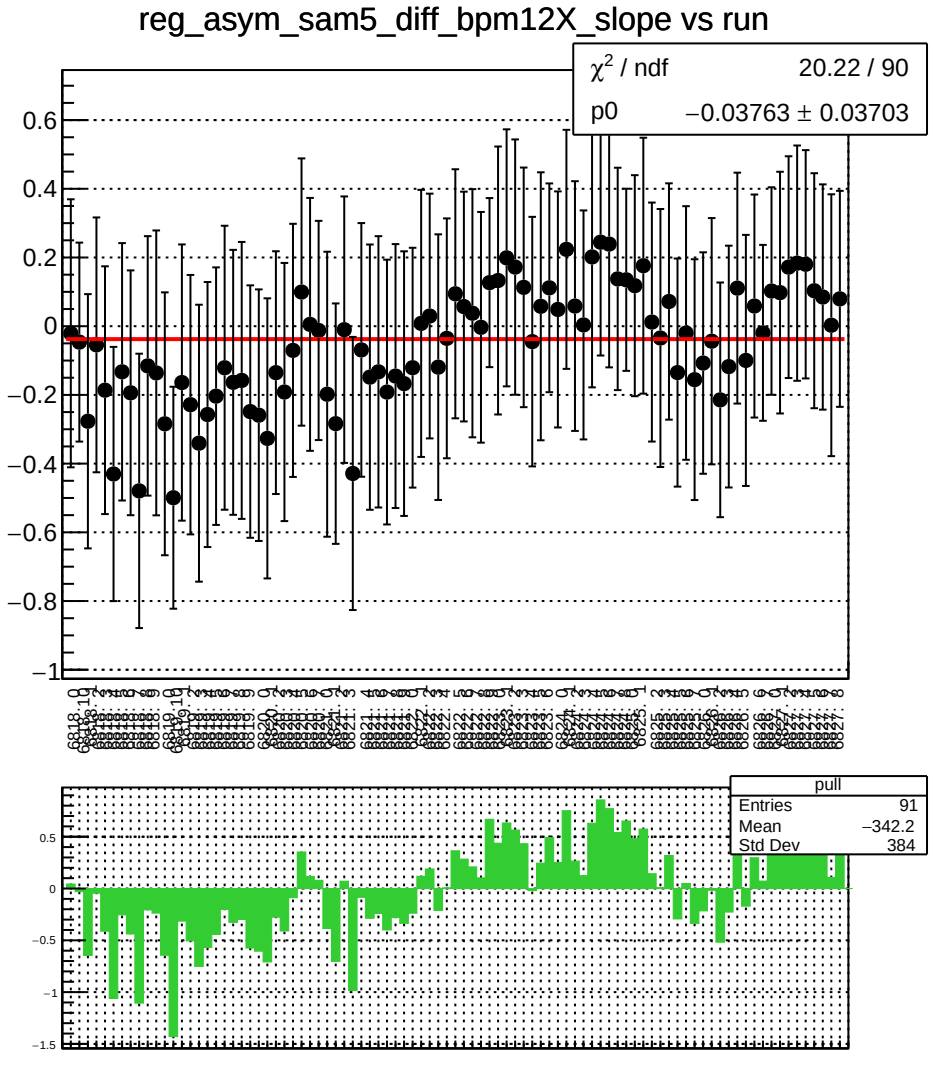

pull1D
Entries 91
Mean 0.02028
Std Dev 0.489

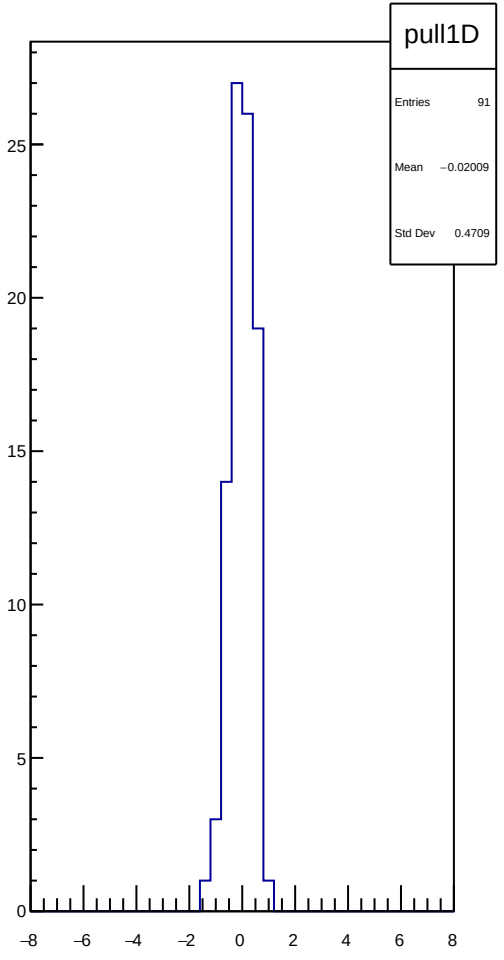

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 7.011 / 90
p0 −0.6978 ± 0.8862
pull
Entries 91
Mean 218.7
Std Dev 186.2

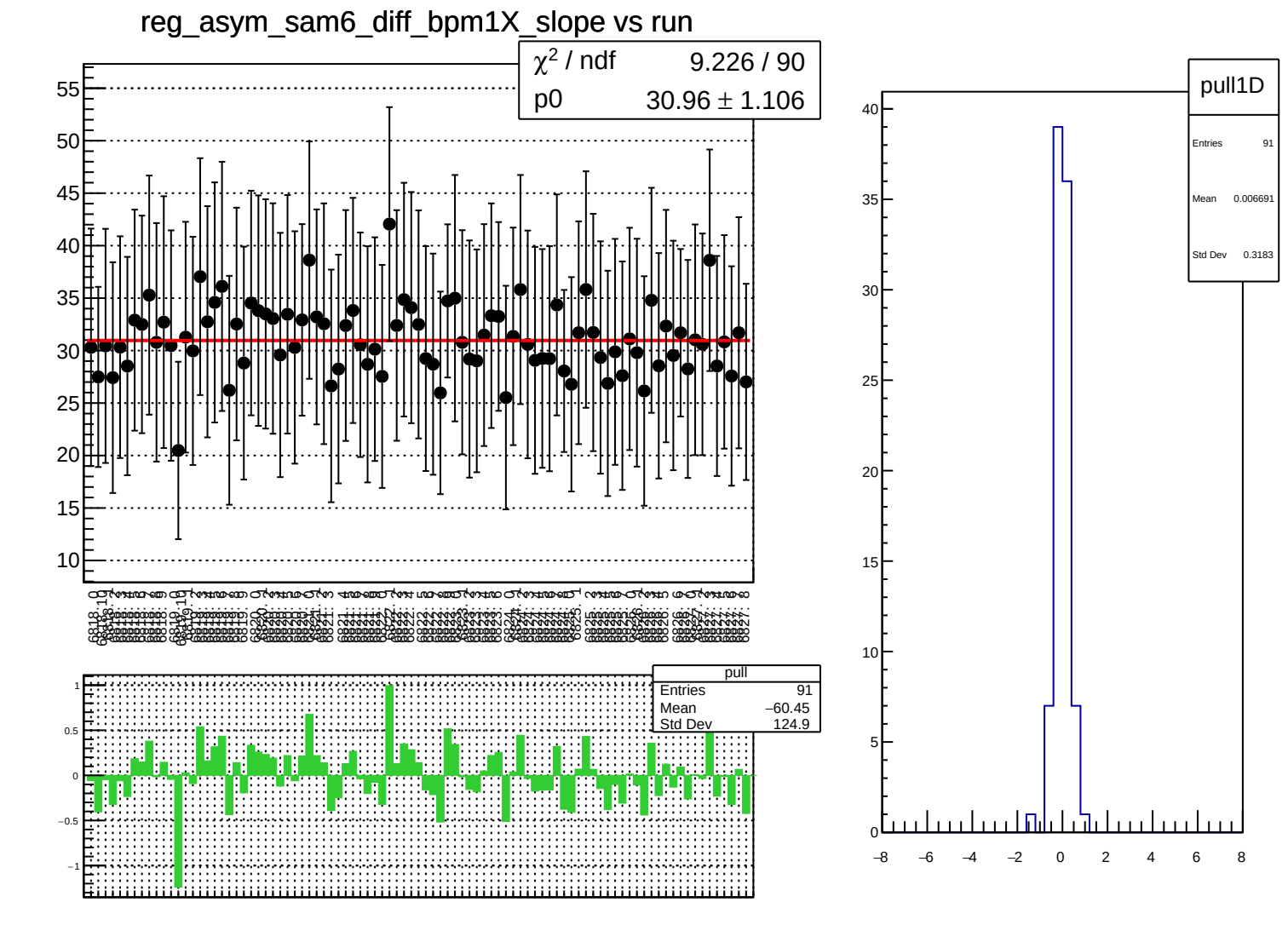

pull1D
Entries 91
Mean −0.003696
Std Dev 0.2775

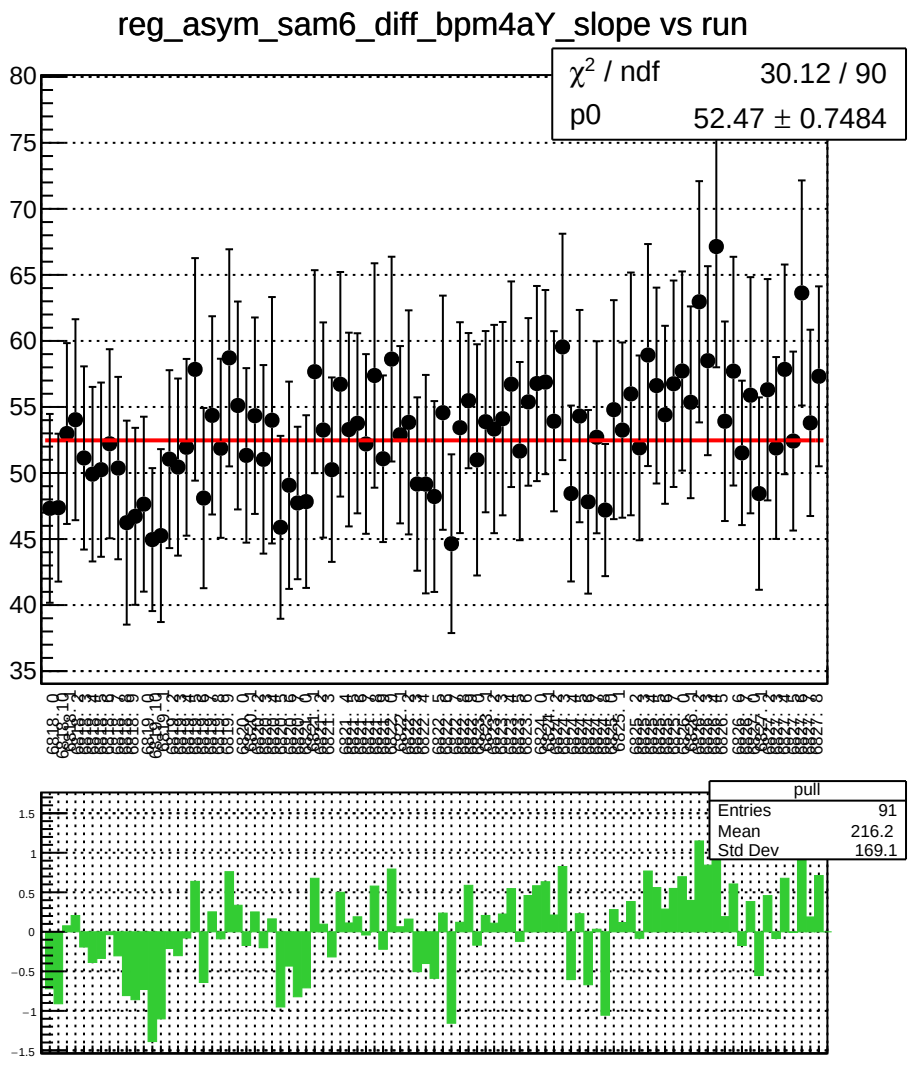

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 16.73 / 90
p0 81.13 ± 0.7457
95
90
85
80
75
70
65
pull
Entries 91
Mean 3082
Std Dev 3034
1
0.5
0
−0.5
−1

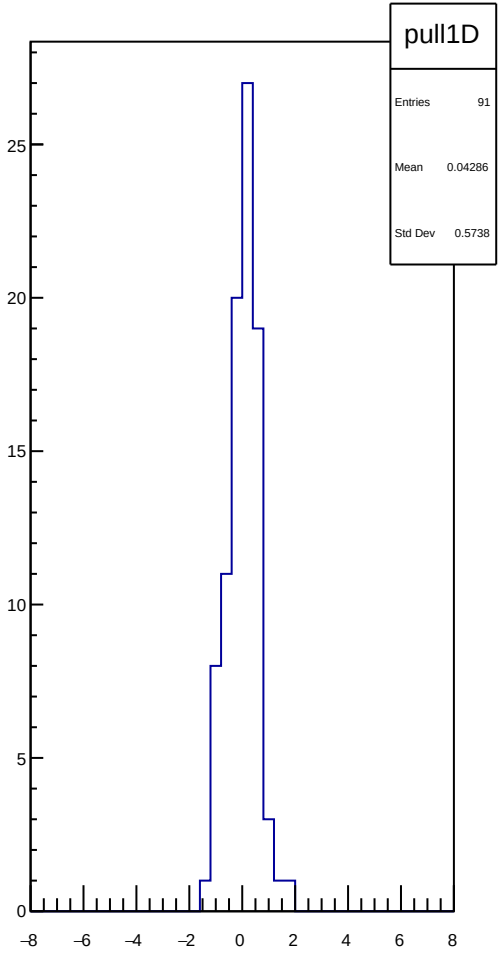

pull1D
Entries 91
Mean −0.002139
Std Dev 0.4288
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

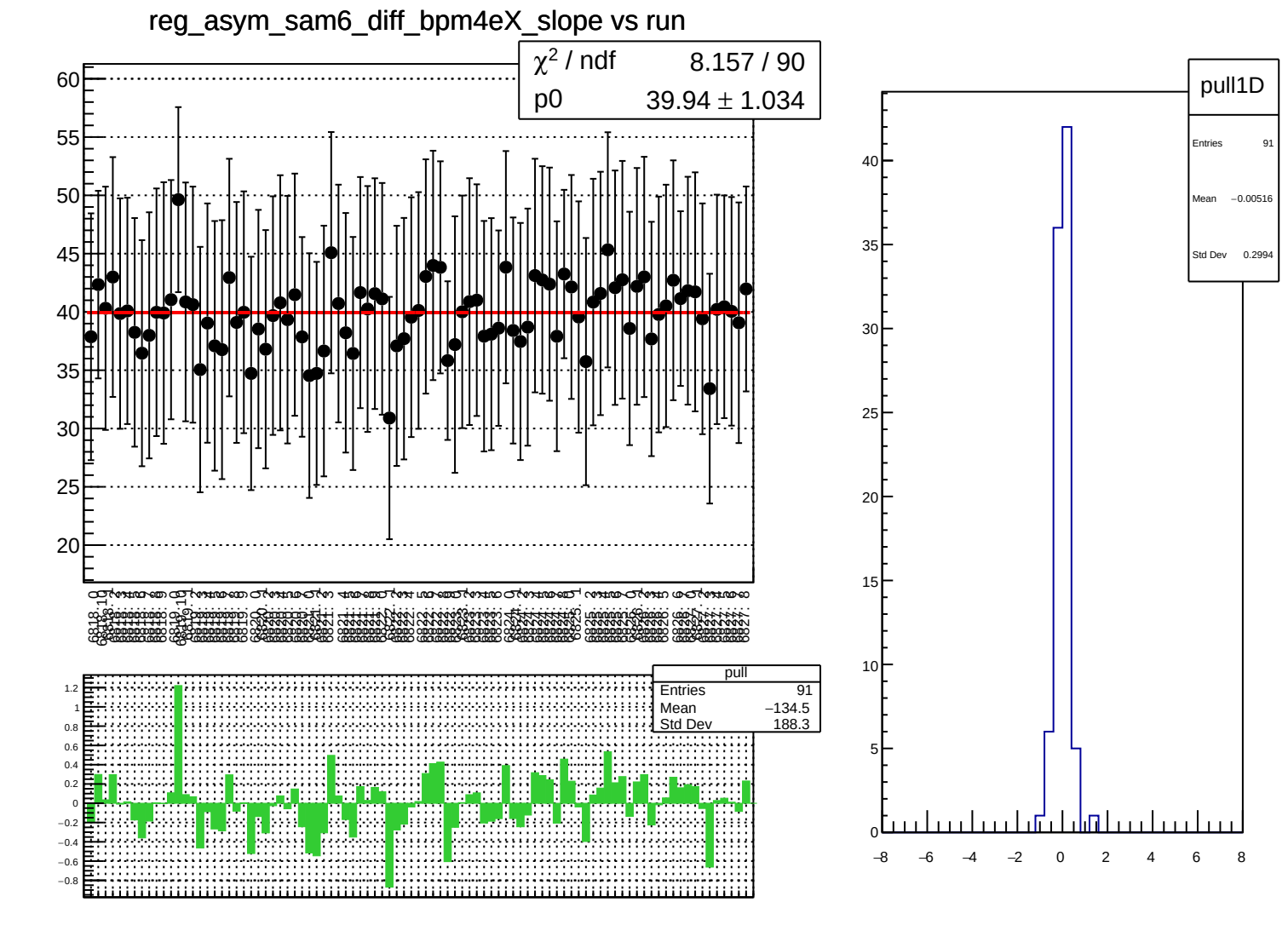

reg_asym_sam5_diff_bpm12X_slope vs run
χ^2 / ndf 20.22 / 90
p0 −0.03763 ± 0.03703
pull
Entries 91
Mean −342.2
Std Dev 384

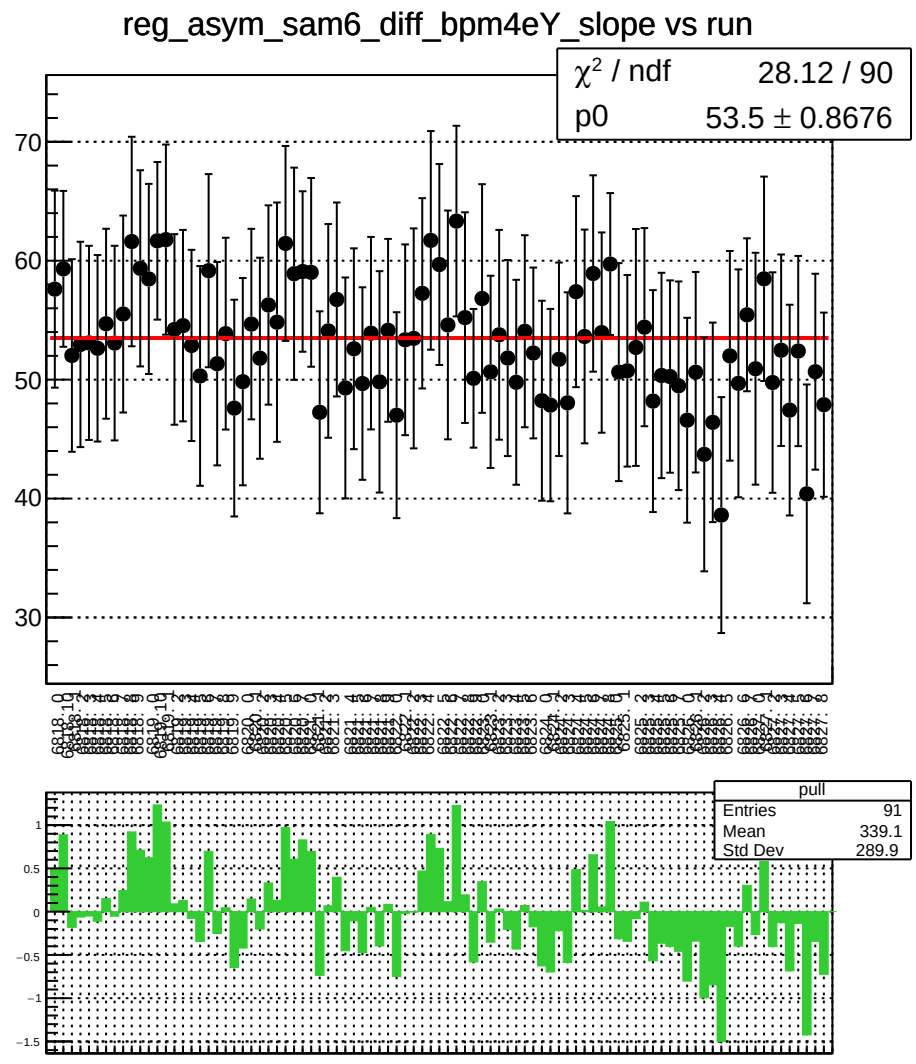

pull1D
Entries 91
Mean −0.02009
Std Dev 0.4709

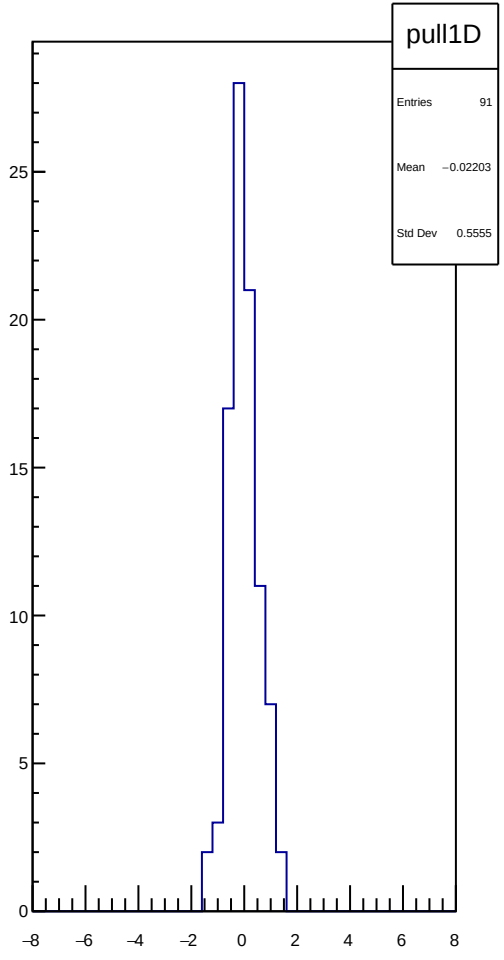

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 9.226 / 90
p0 30.96 ± 1.106
pull
Entries 91
Mean −60.45
Std Dev 124.9
pull1D
Entries 91
Mean 0.006691
Std Dev 0.3183

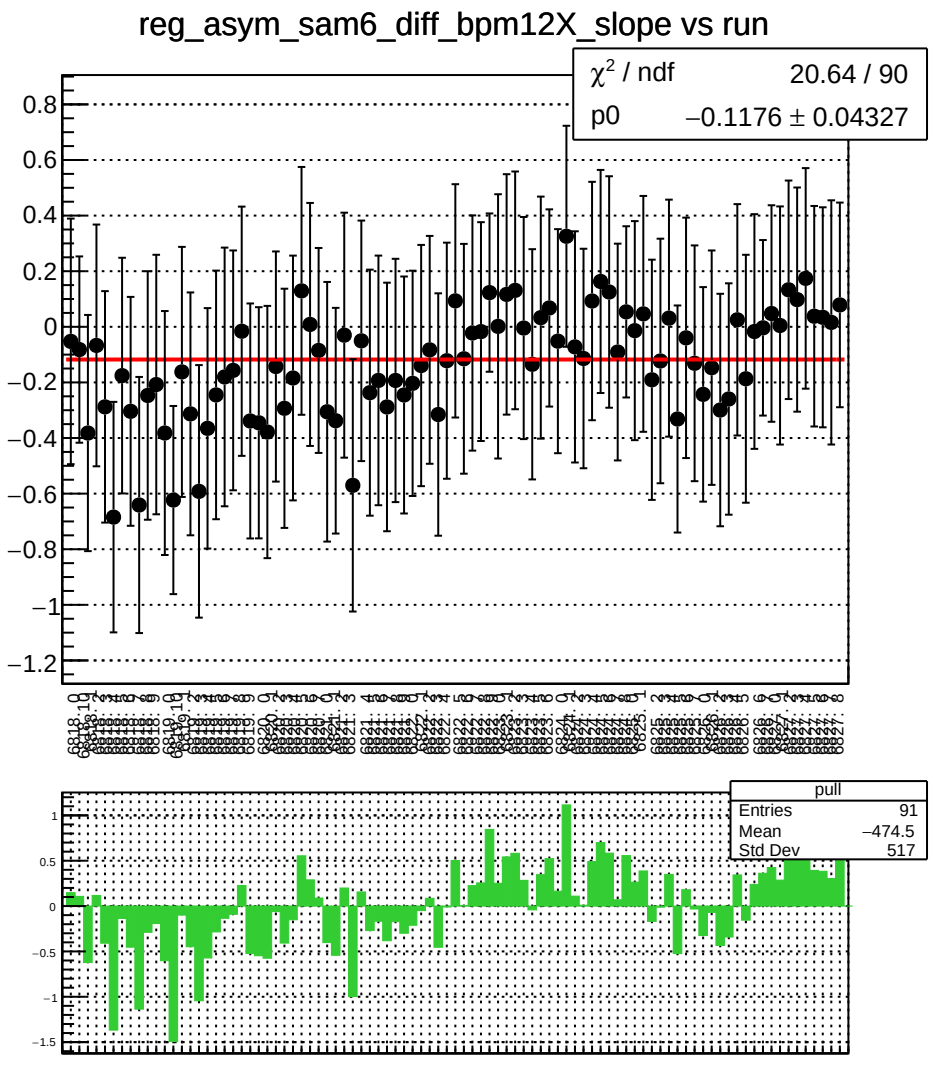

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 30.12 / 90
p0 52.47 ± 0.7484
pull
Entries 91
Mean 216.2
Std Dev 169.1

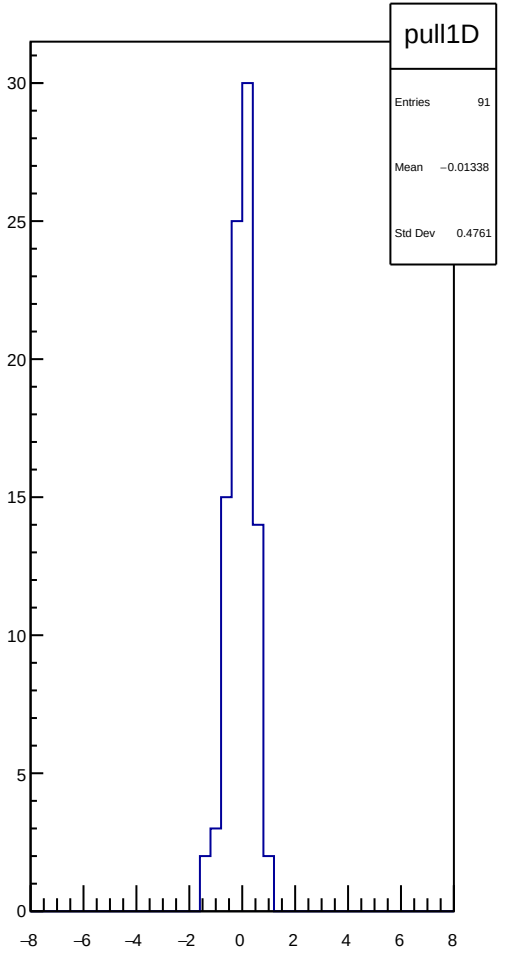

pull1D
Entries 91
Mean 0.04286
Std Dev 0.5738

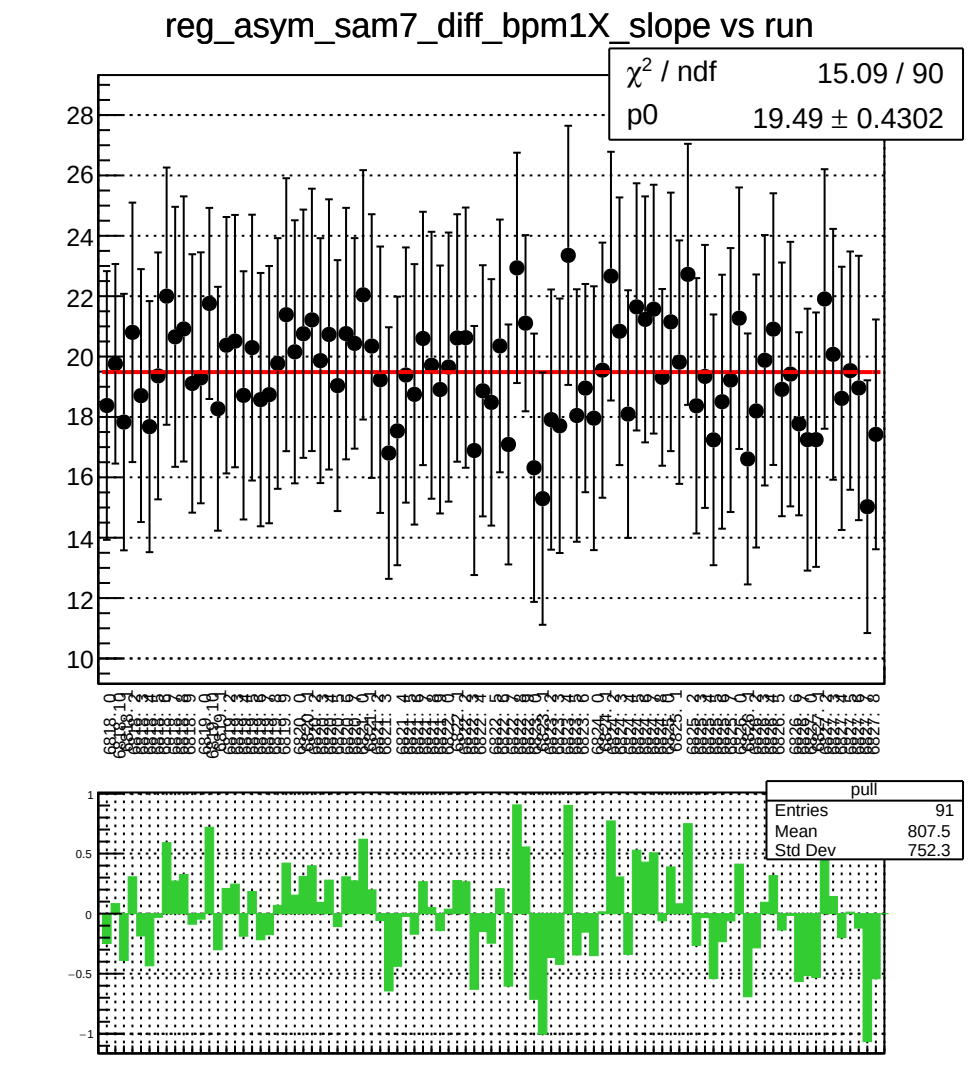

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 8.157 / 90
p0 39.94 ± 1.034
pull
Entries 91
Mean −134.5
Std Dev 188.3
pull1D
Entries 91
Mean −0.00516
Std Dev 0.2994

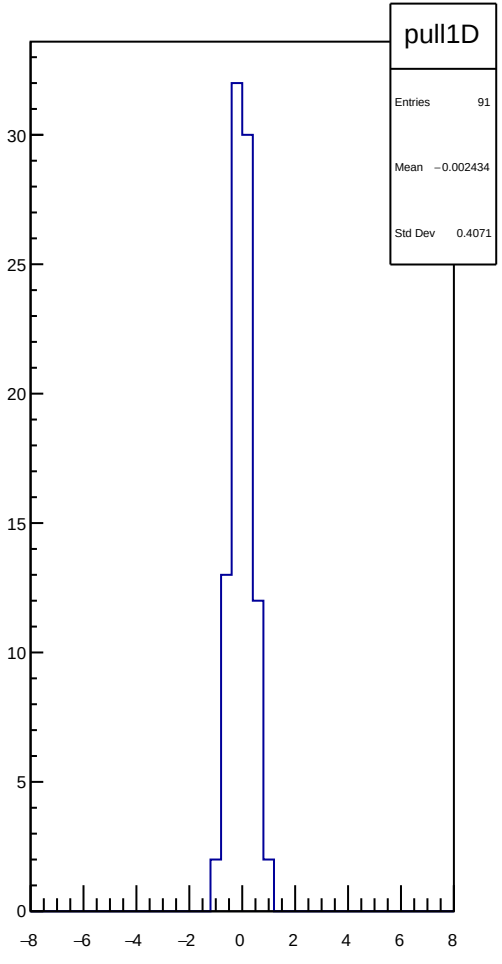

reg_asym_sam6_diff_bpm4eY_slope vs run
χ^2 / ndf 28.12 / 90
p0 53.5 ± 0.8676
70
60
50
40
30
pull
Entries 91
Mean 339.1
Std Dev 289.9
1
0.5
0
−0.5
−1
−1.5

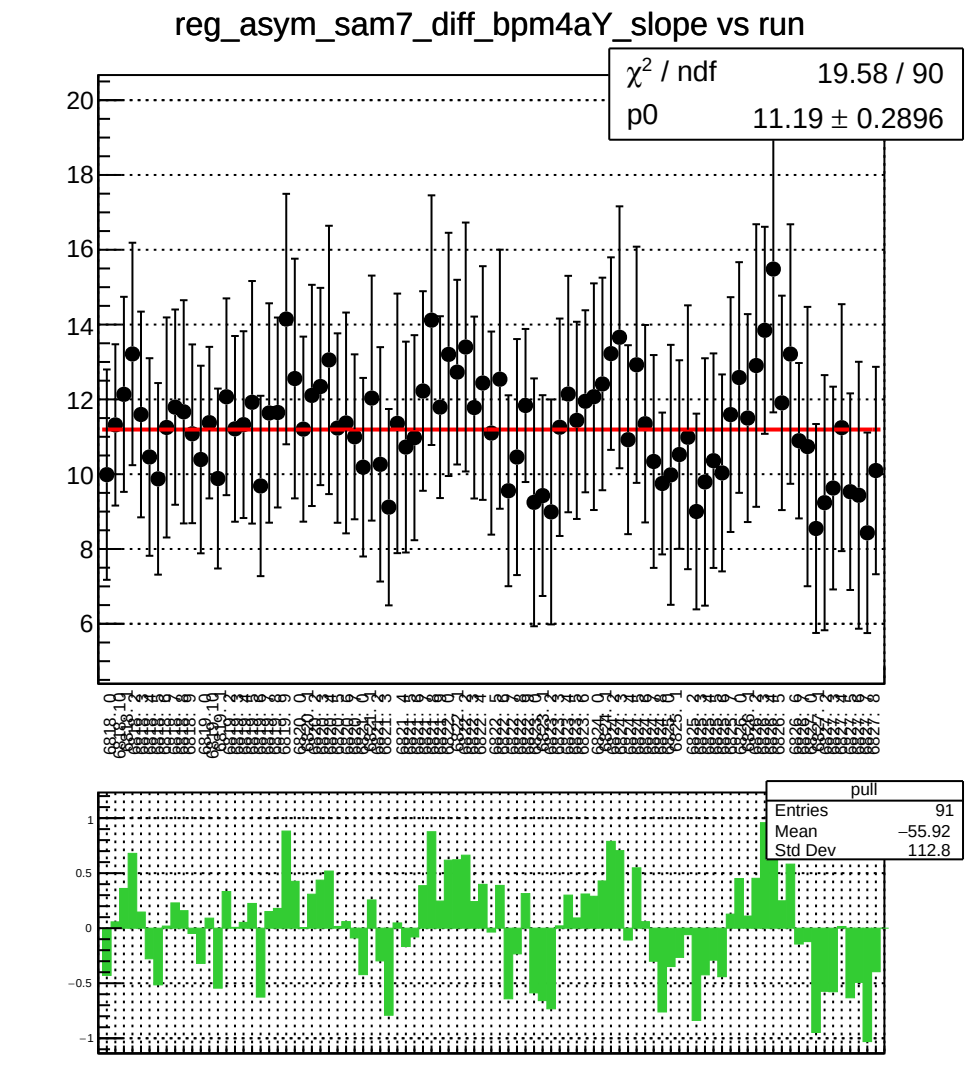

pull1D
Entries 91
Mean −0.02203
Std Dev 0.5555
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

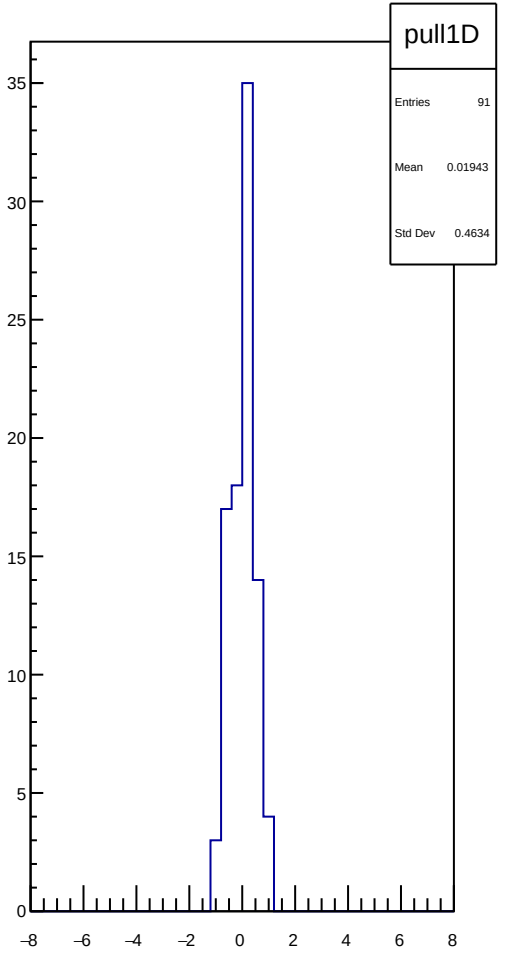

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 20.64 / 90
p0 −0.1176 ± 0.04327
pull
Entries 91
Mean −474.5
Std Dev 517

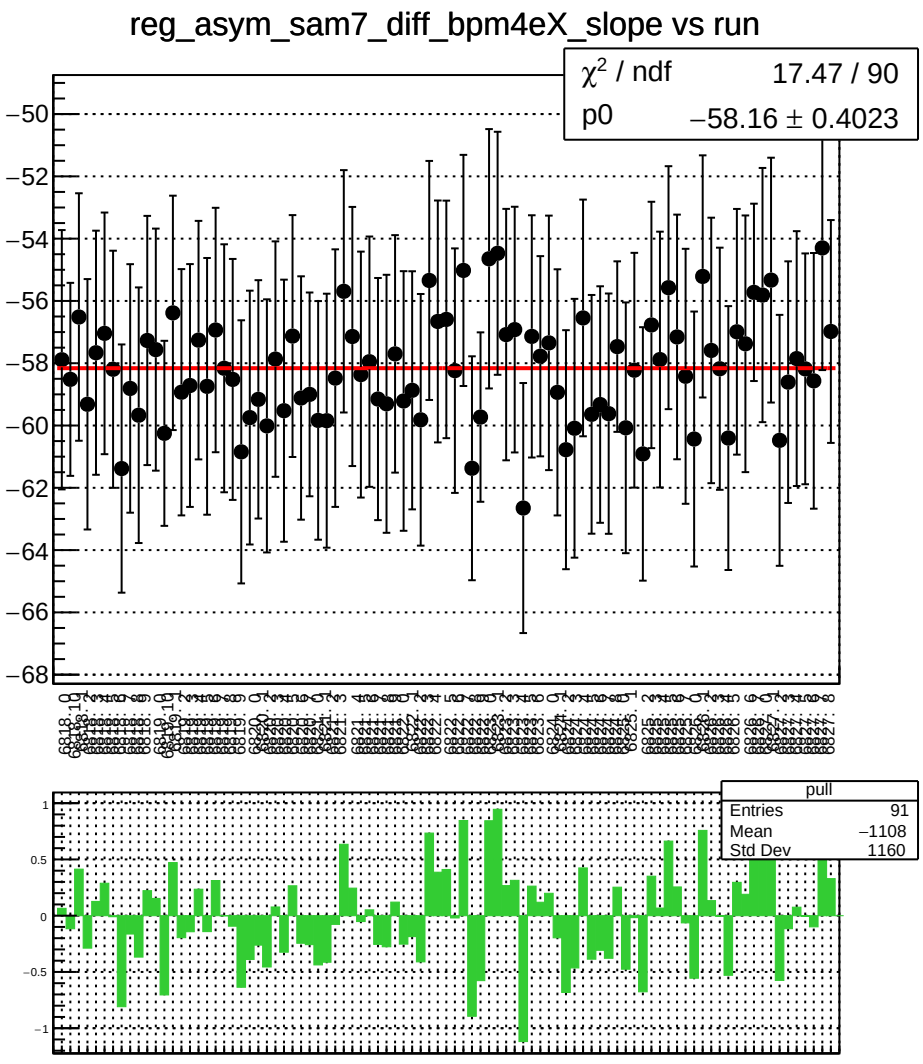

pull1D
Entries 91
Mean −0.01338
Std Dev 0.4761

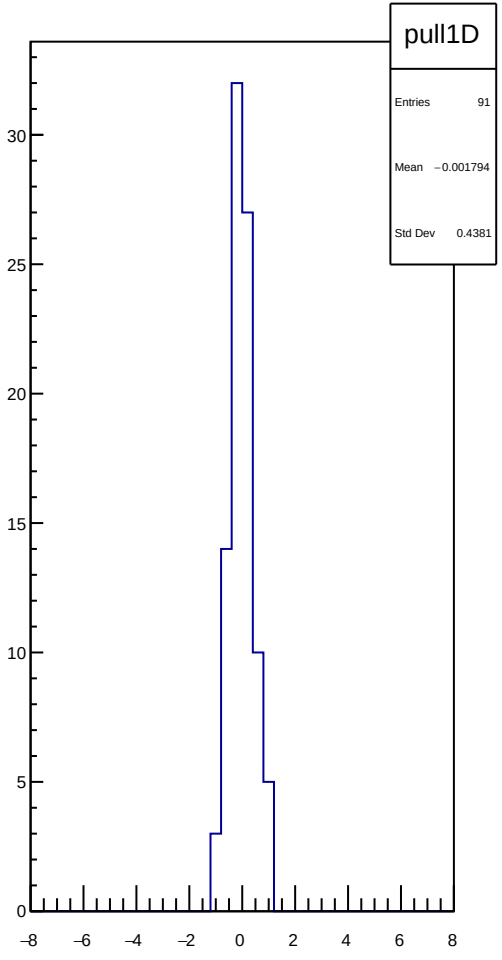

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 15.09 / 90
p0 19.49 ± 0.4302
pull
Entries 91
Mean 807.5
Std Dev 752.3

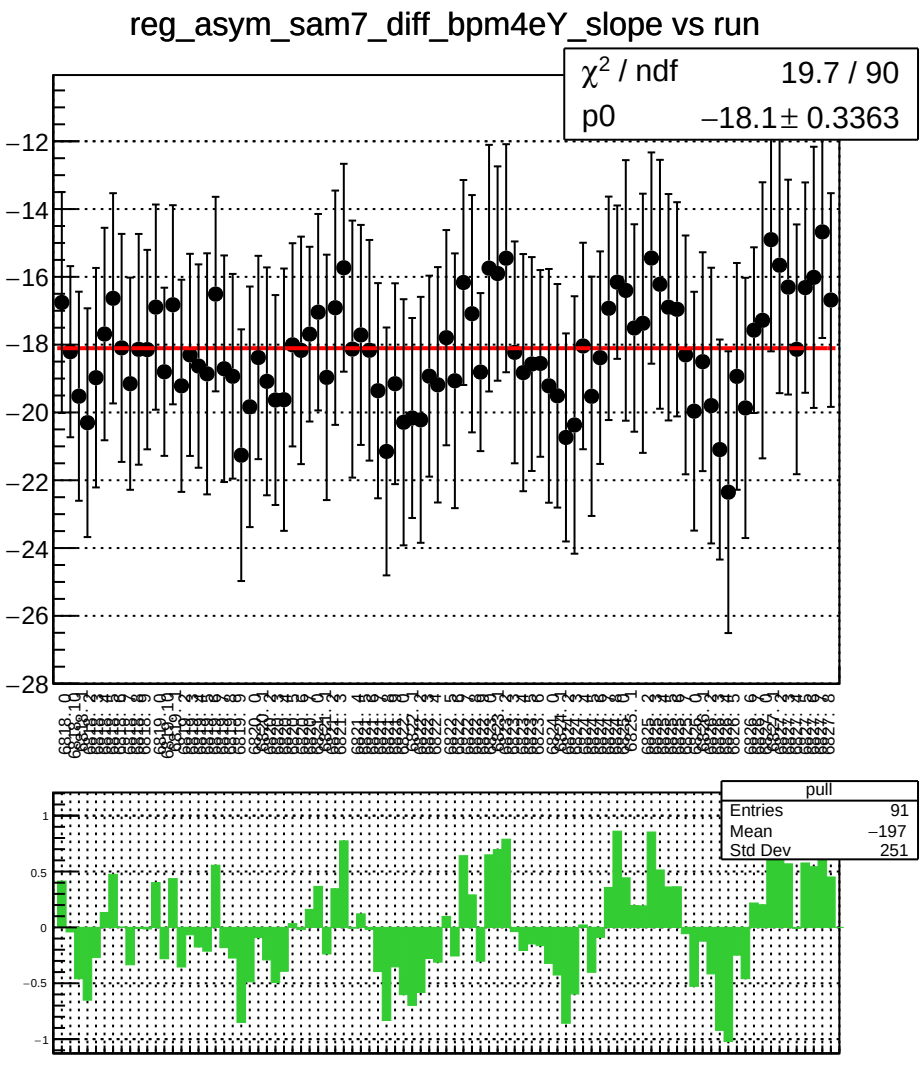

pull1D
Entries 91
Mean −0.002434
Std Dev 0.4071

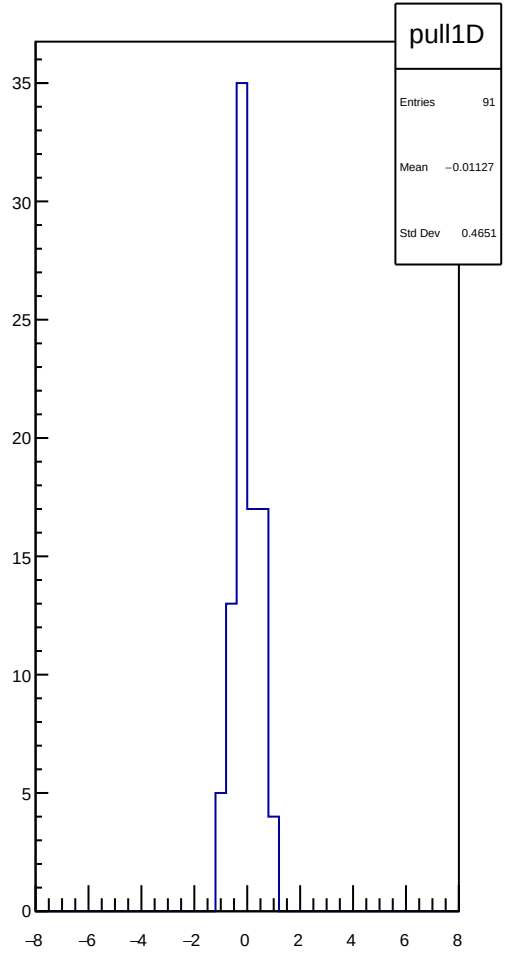

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 19.58 / 90
p0 11.19 ± 0.2896
pull
Entries 91
Mean −55.92
Std Dev 112.8

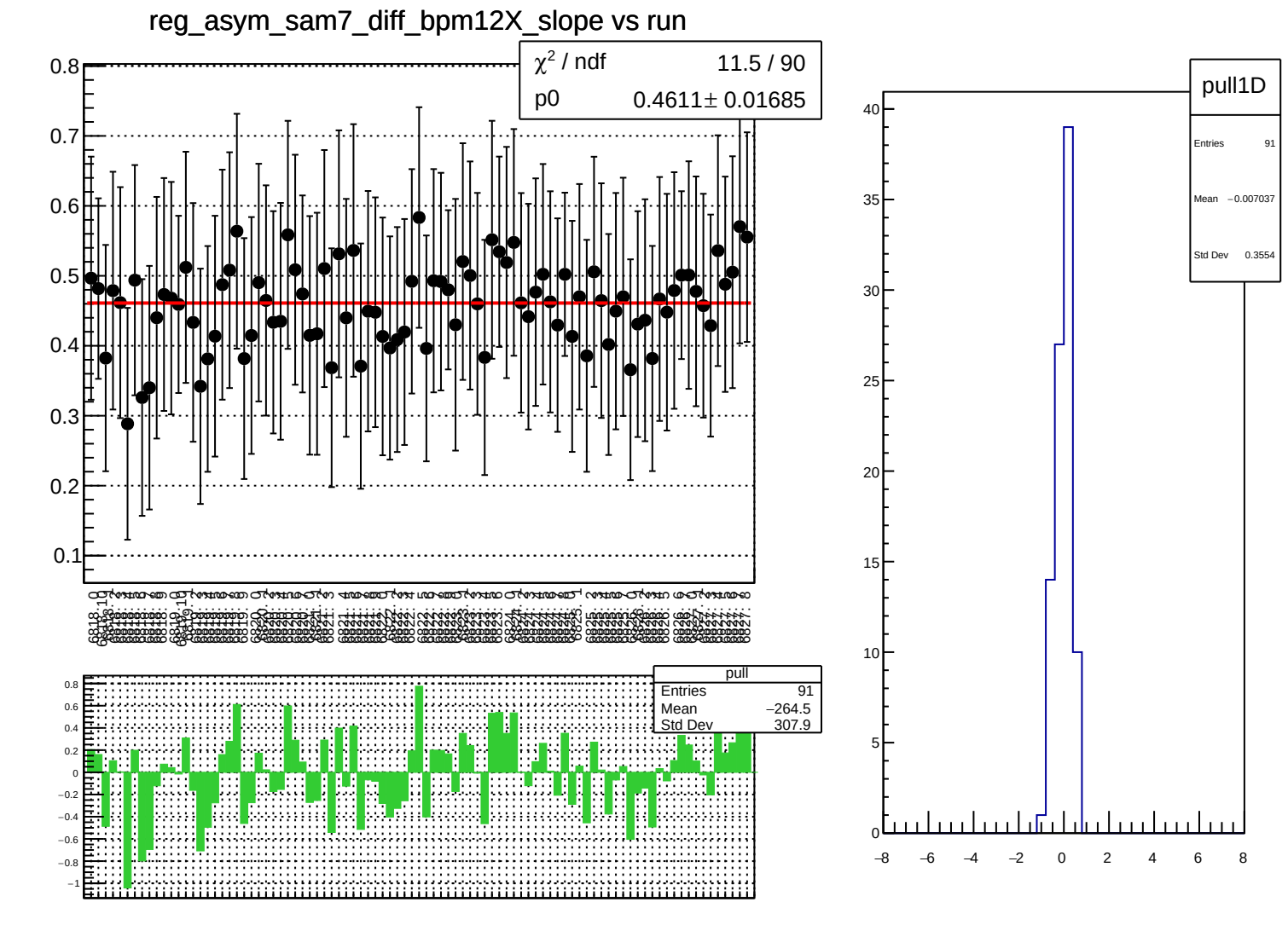

pull1D
Entries 91
Mean 0.01943
Std Dev 0.4634

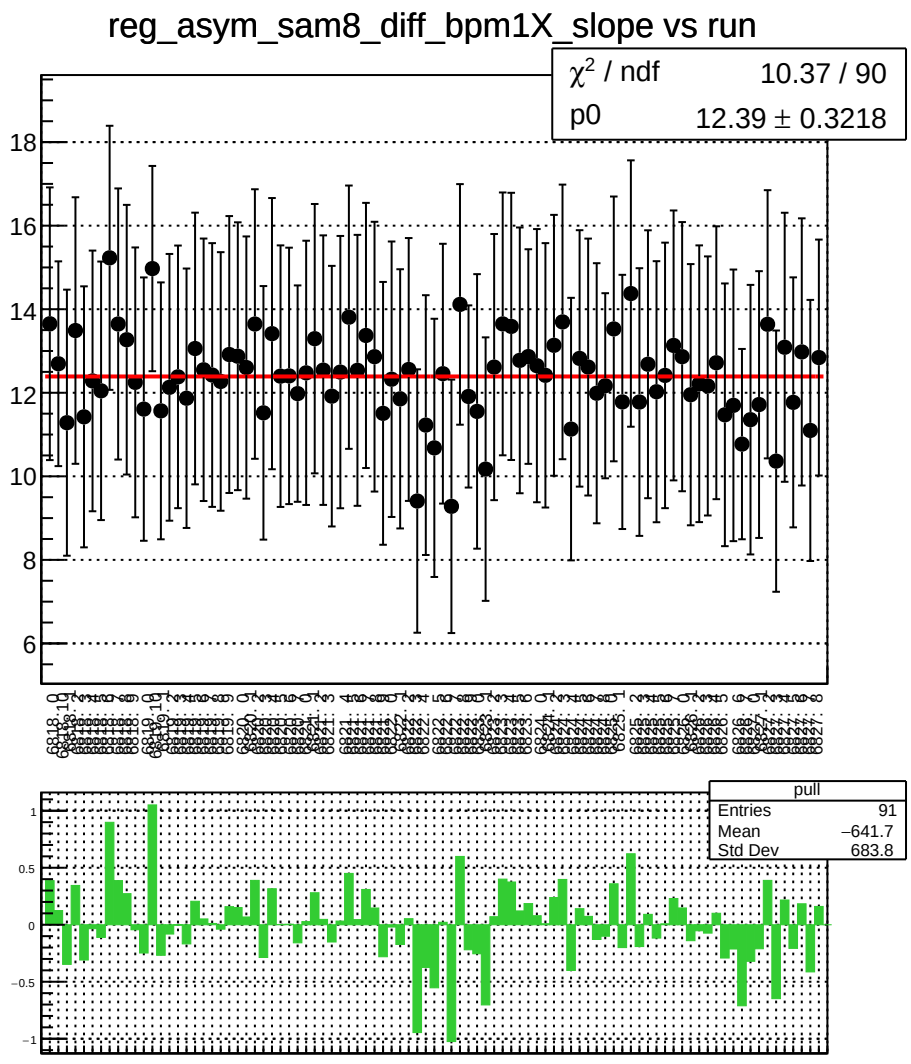

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 17.47 / 90
p0 −58.16 ± 0.4023
pull
Entries 91
Mean −1108
Std Dev 1160

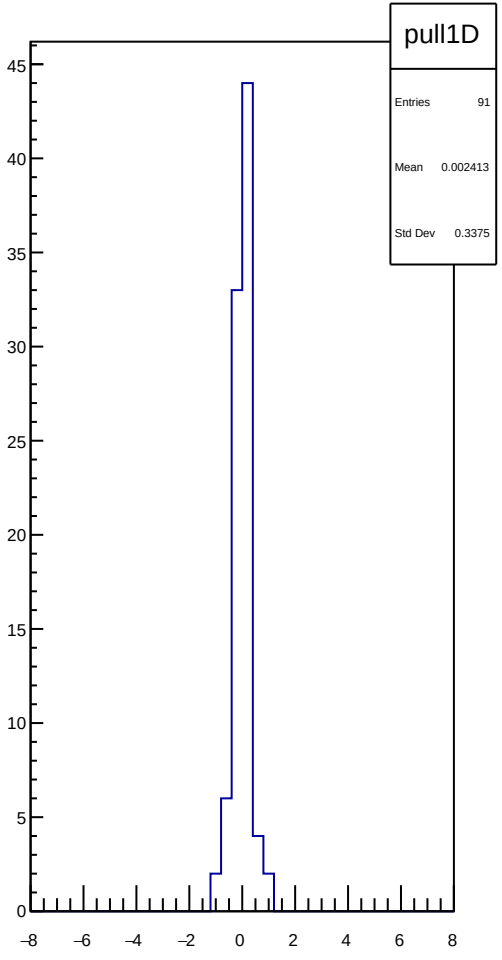

pull1D
Entries 91
Mean −0.001794
Std Dev 0.4381

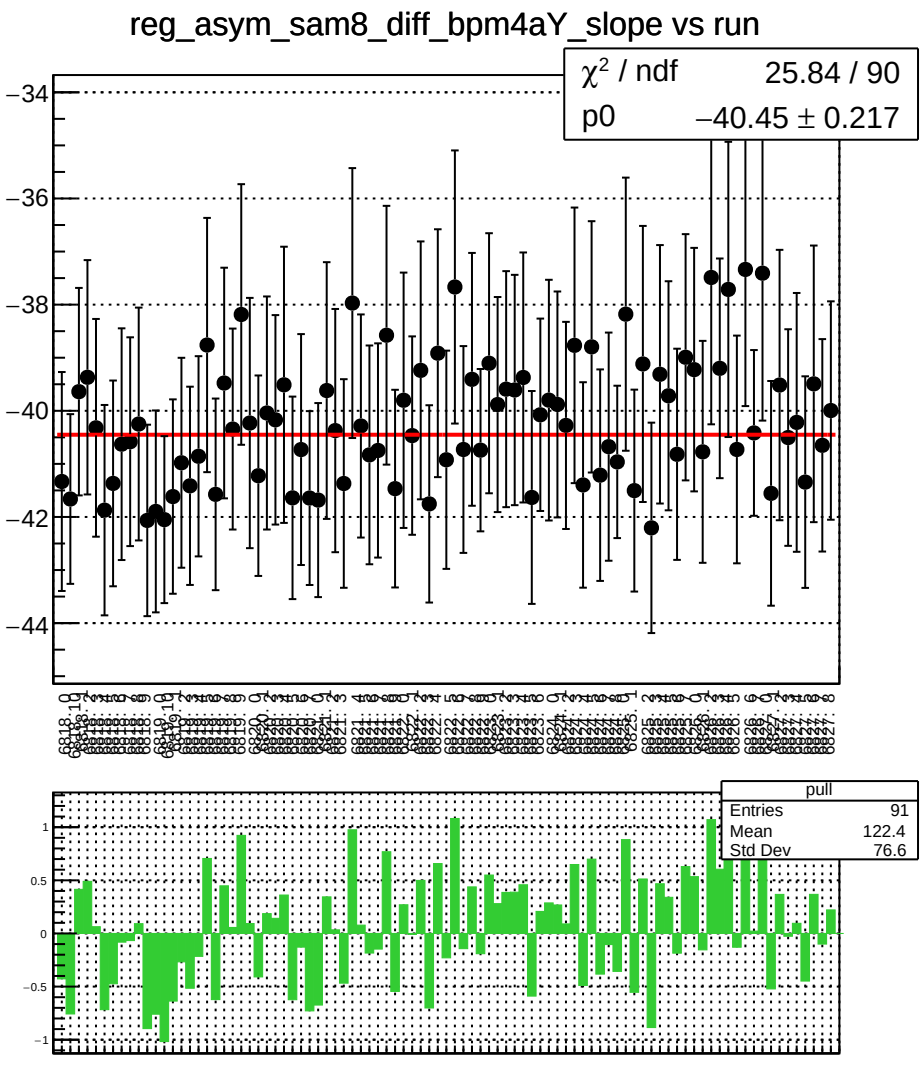

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 19.7 / 90
p0 −18.1 ± 0.3363
pull
Entries 91
Mean −197
Std Dev 251

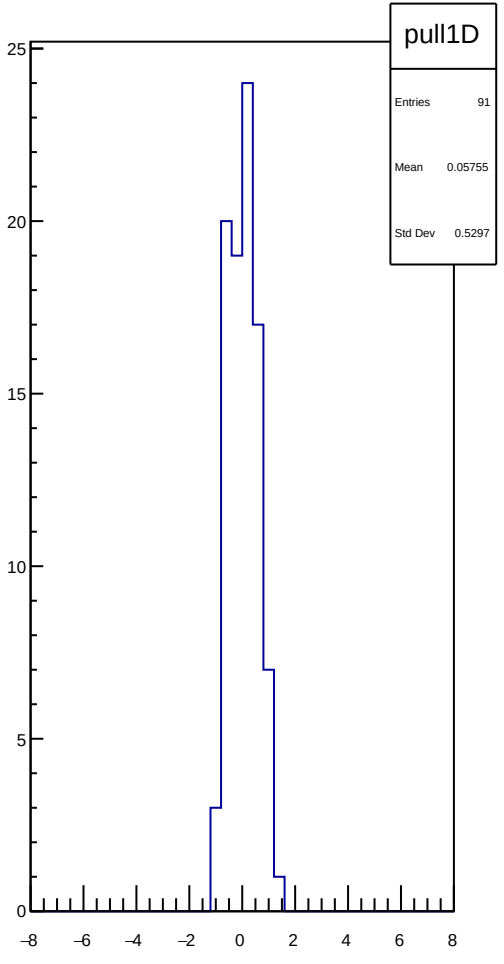

pull1D
Entries 91
Mean −0.01127
Std Dev 0.4651

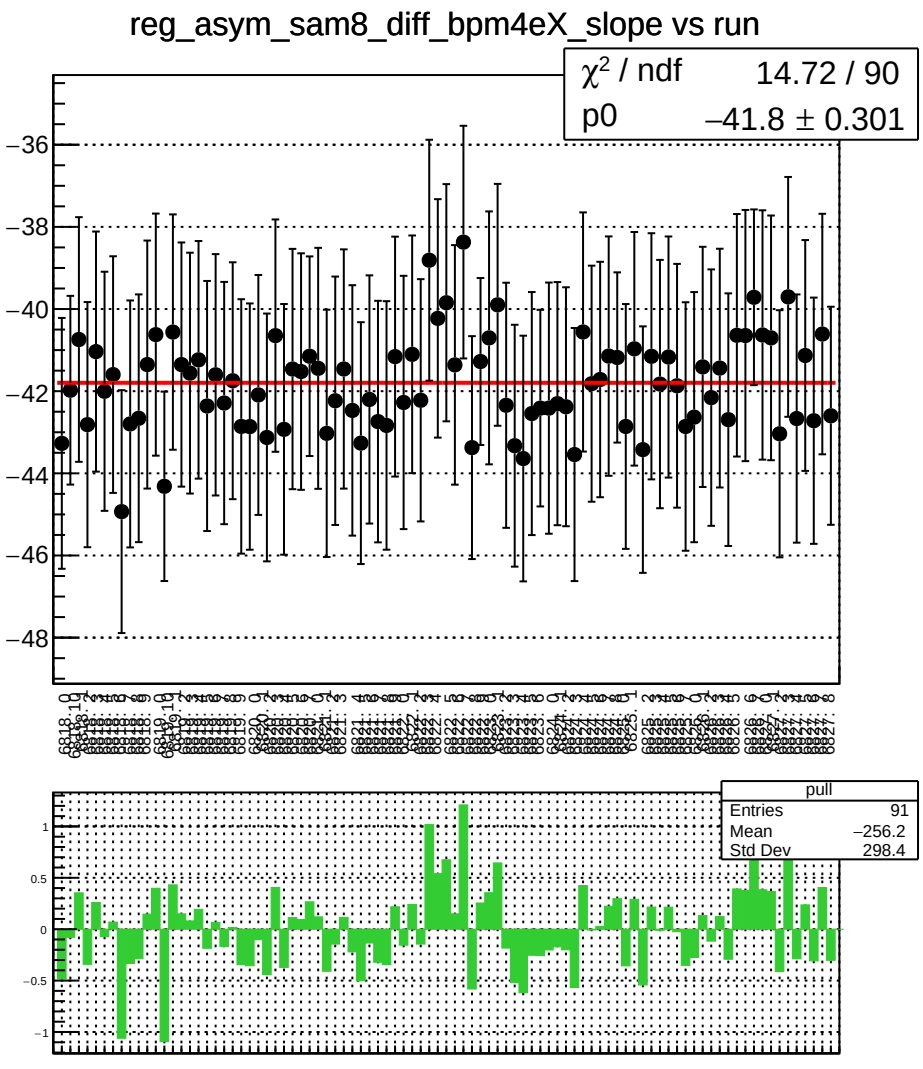

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 11.5 / 90
p0 0.4611± 0.01685
pull
Entries 91
Mean −264.5
Std Dev 307.9
pull1D
Entries 91
Mean −0.007037
Std Dev 0.3554

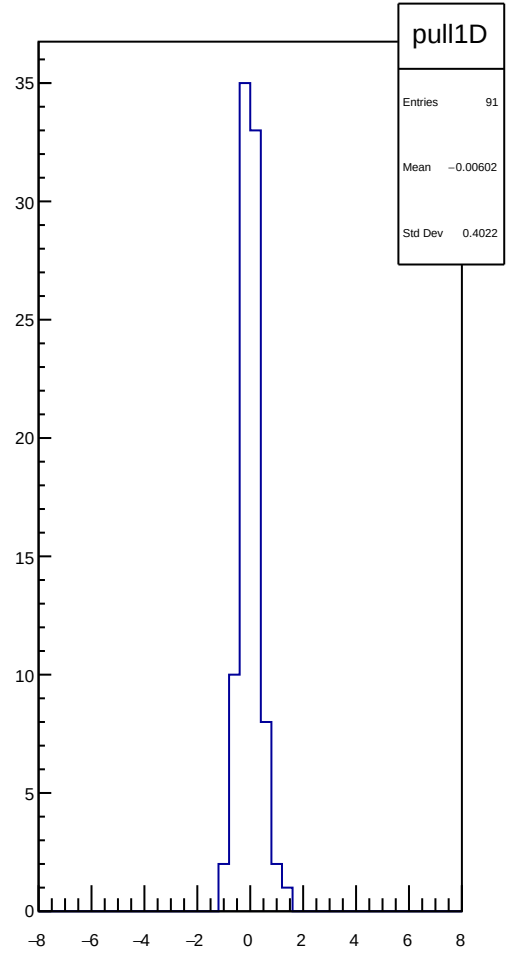

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 10.37 / 90
p0 12.39 ± 0.3218
pull
Entries 91
Mean −641.7
Std Dev 683.8

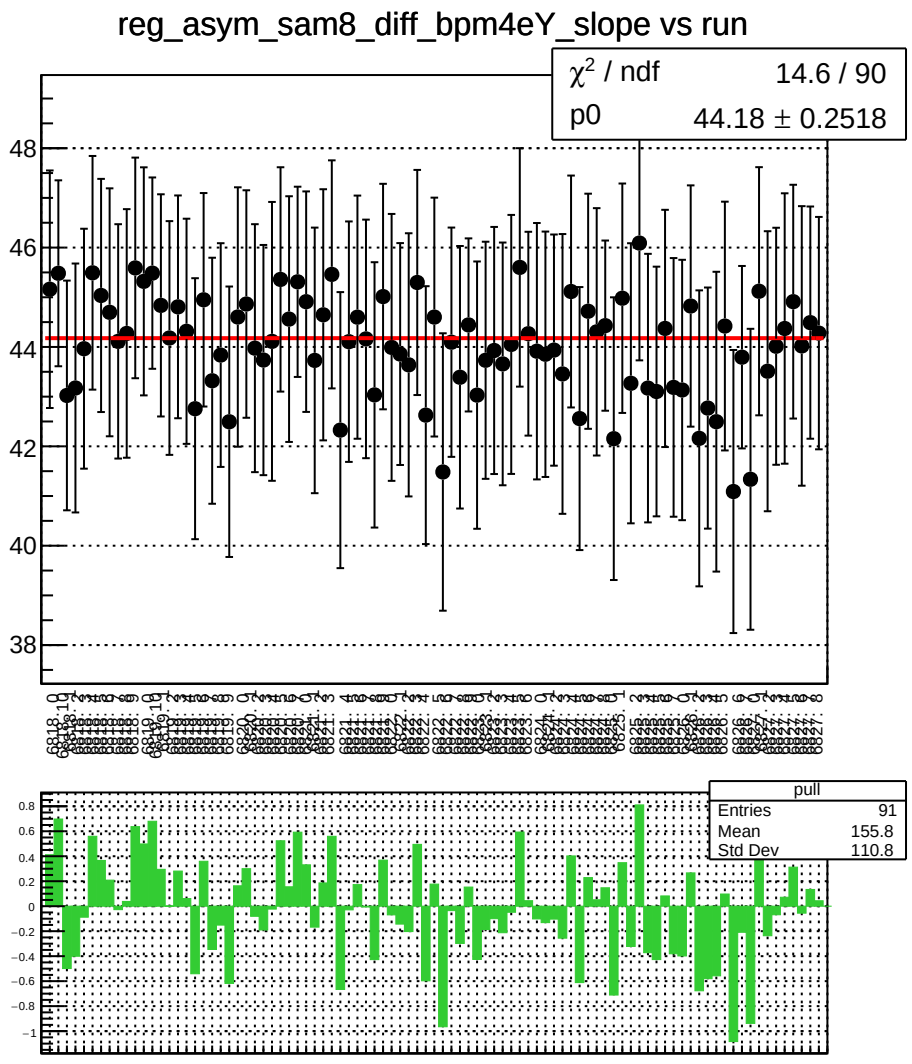

pull1D
Entries 91
Mean 0.002413
Std Dev 0.3375

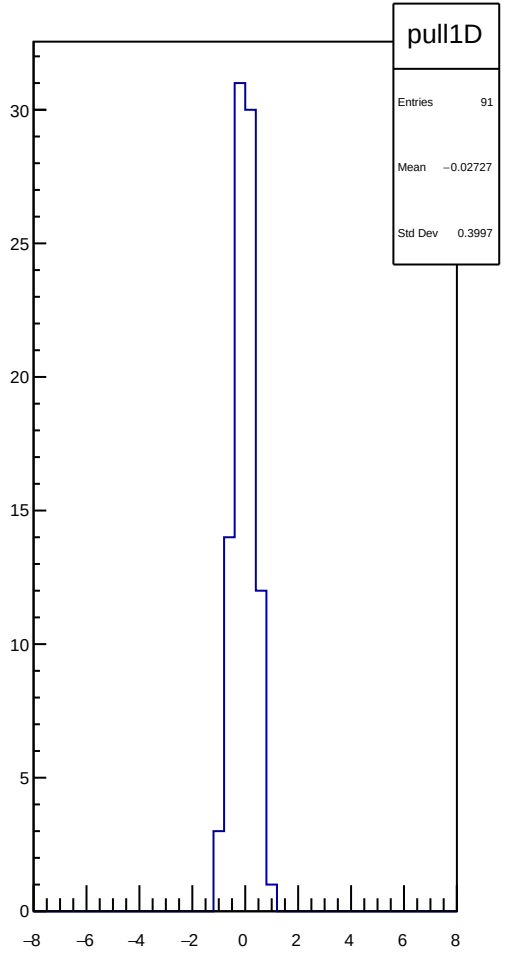

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 25.84 / 90
p0 −40.45 ± 0.217
pull
Entries 91
Mean 122.4
Std Dev 76.6

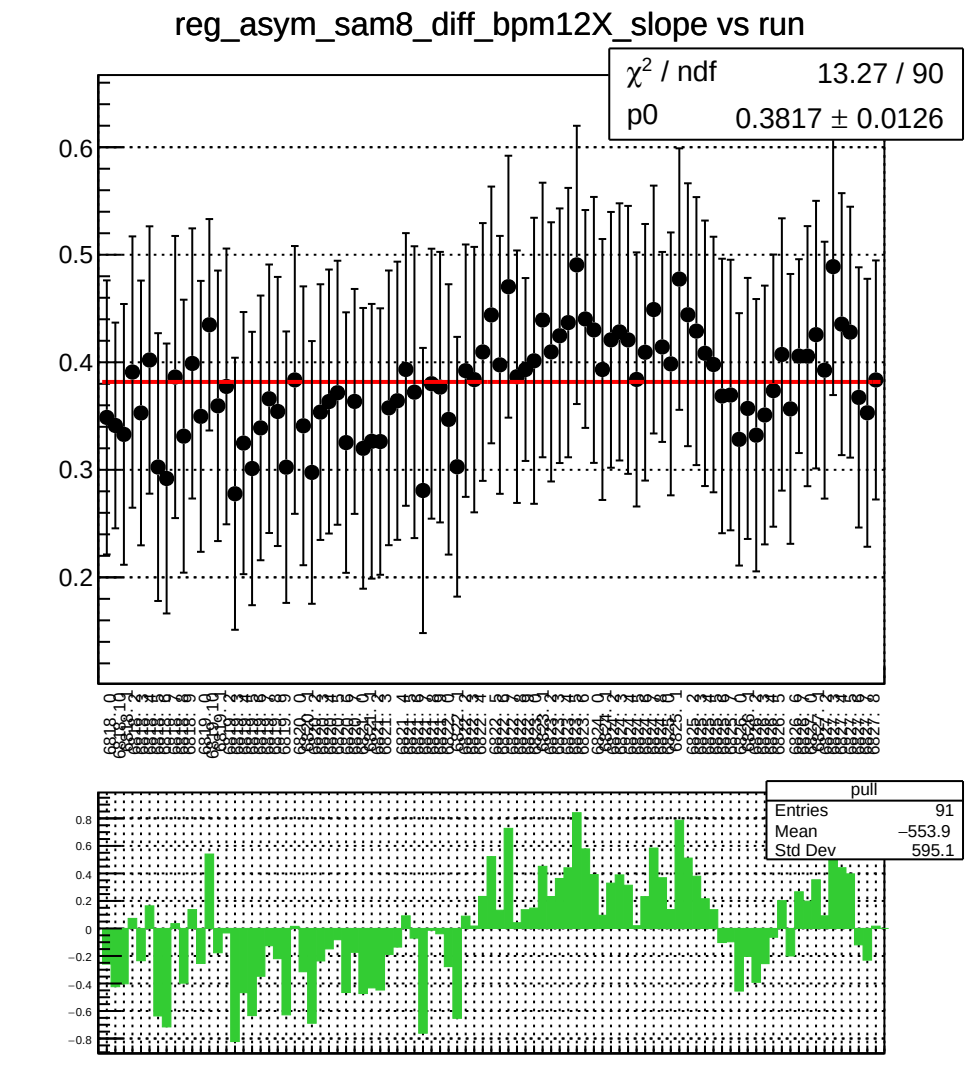

pull1D
Entries 91
Mean 0.05755
Std Dev 0.5297

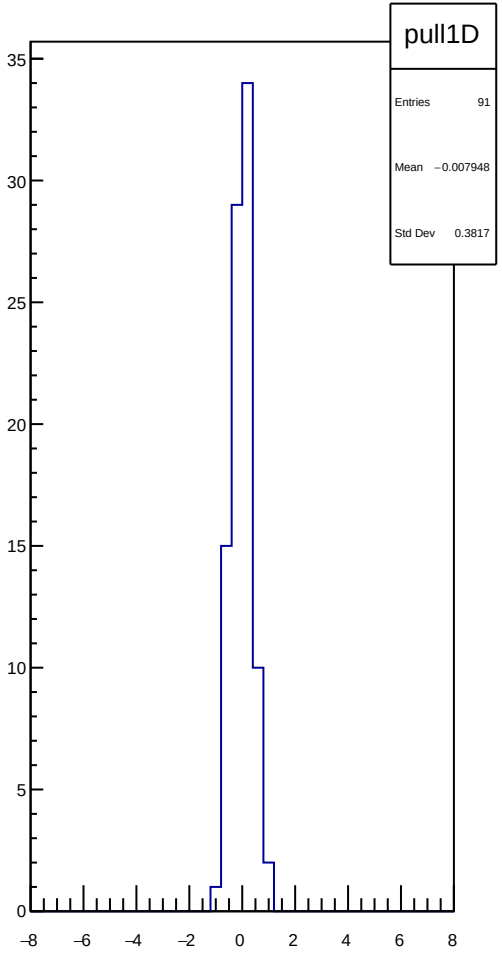

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 14.72 / 90
p0 −41.8 ± 0.301
pull
Entries 91
Mean −256.2
Std Dev 298.4

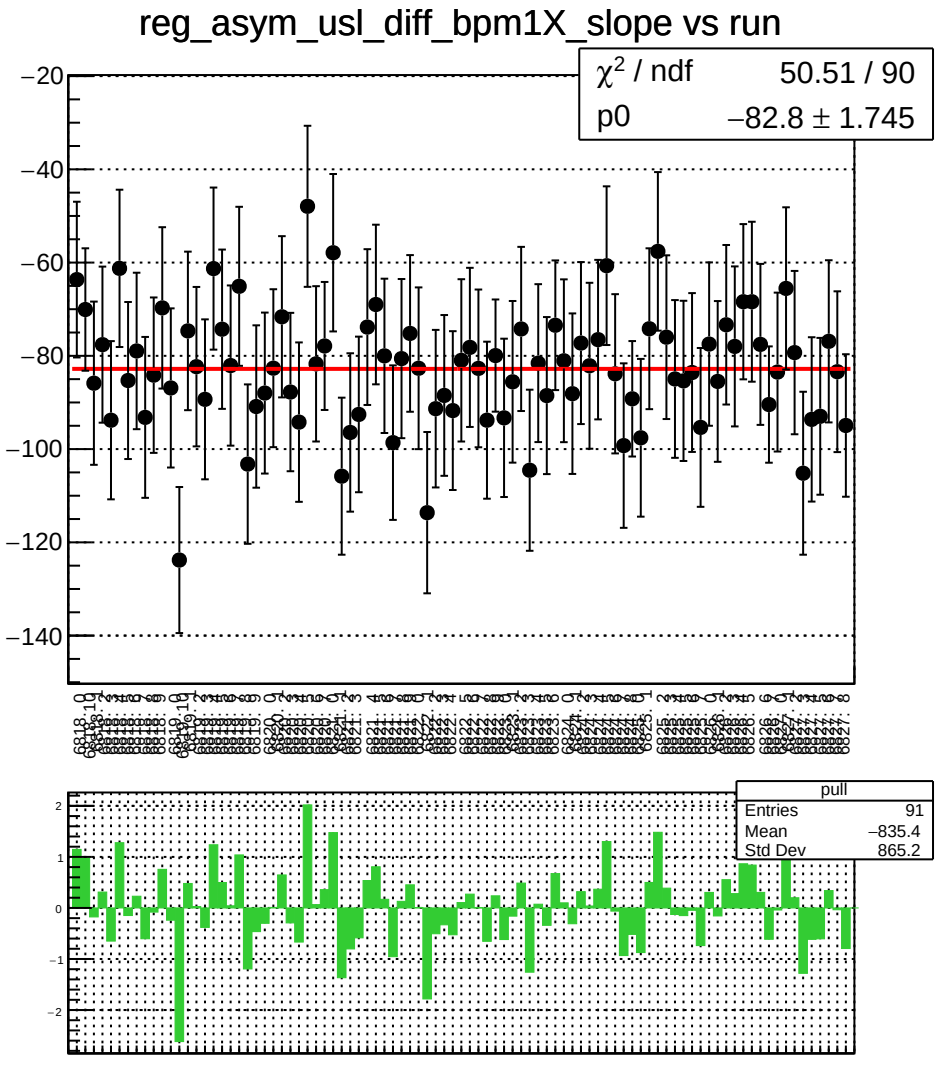

pull1D
Entries 91
Mean −0.00602
Std Dev 0.4022

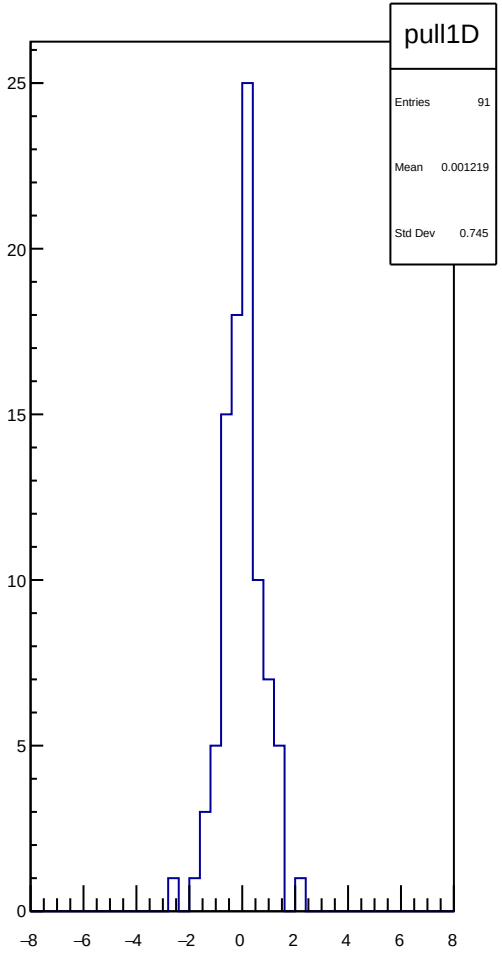

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 14.6 / 90
p0 44.18 ± 0.2518
48
46
44
42
40
38
pull
Entries 91
Mean 155.8
Std Dev 110.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

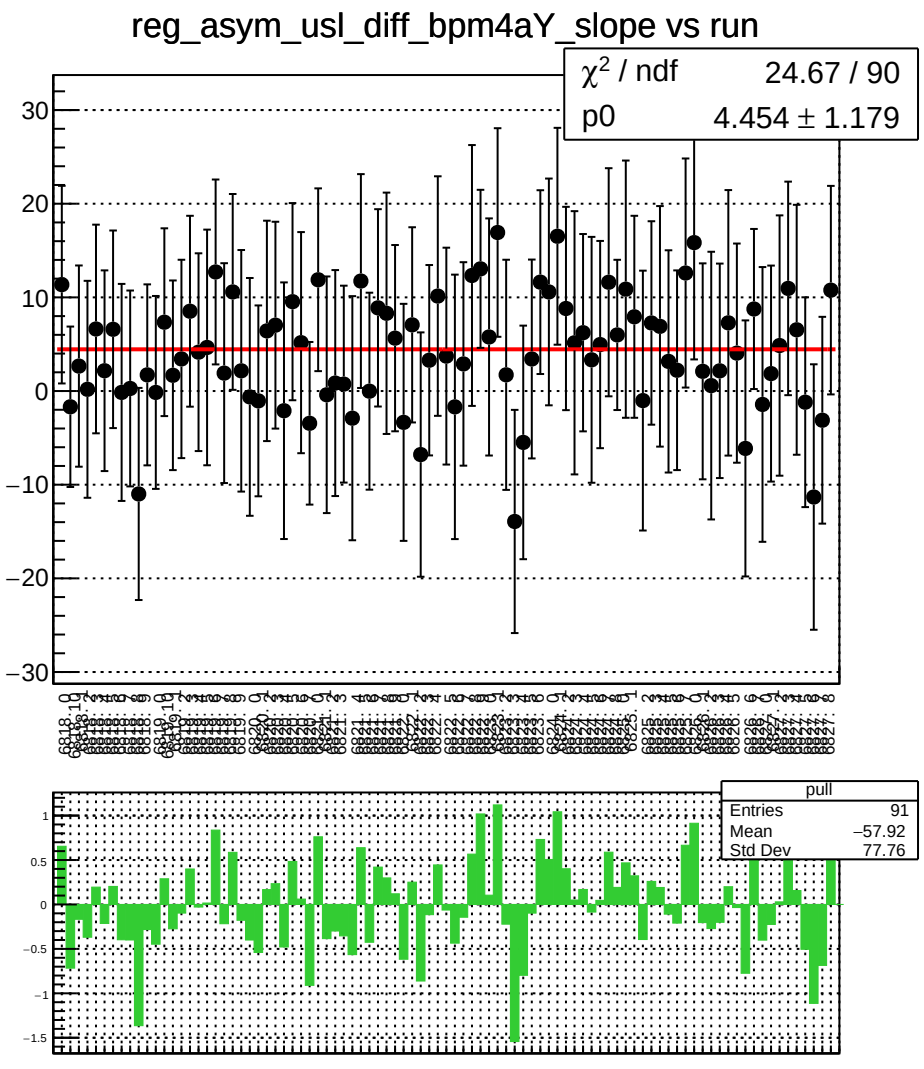

pull1D
Entries 91
Mean −0.02727
Std Dev 0.3997
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

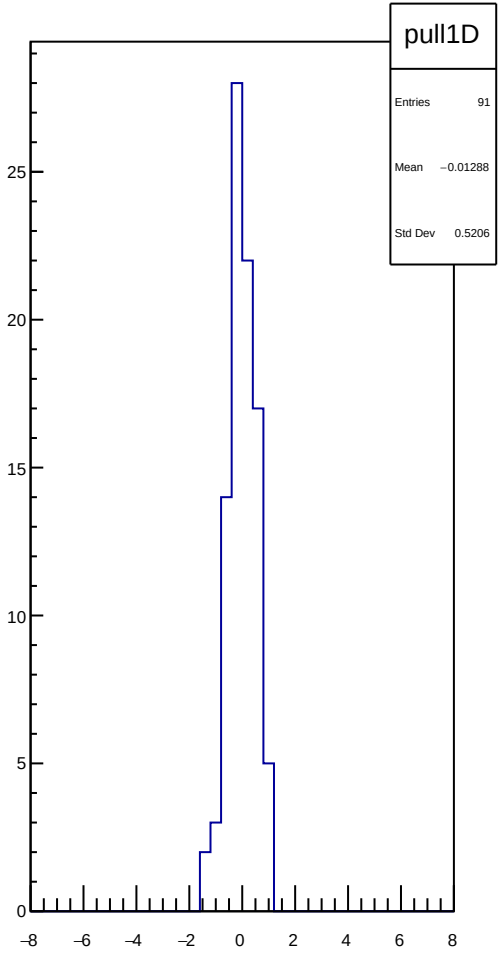

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 13.27 / 90
p0 0.3817 ± 0.0126
pull
Entries 91
Mean −553.9
Std Dev 595.1

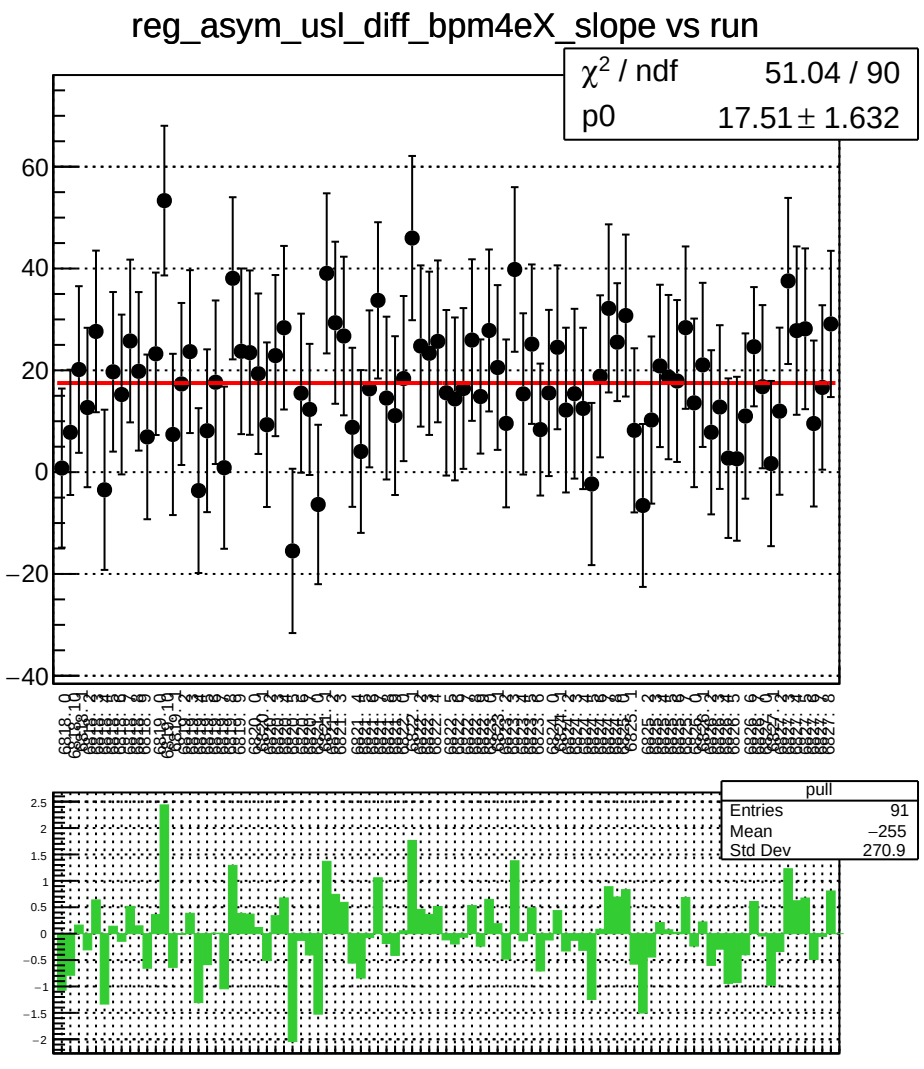

pull1D
Entries 91
Mean −0.007948
Std Dev 0.3817

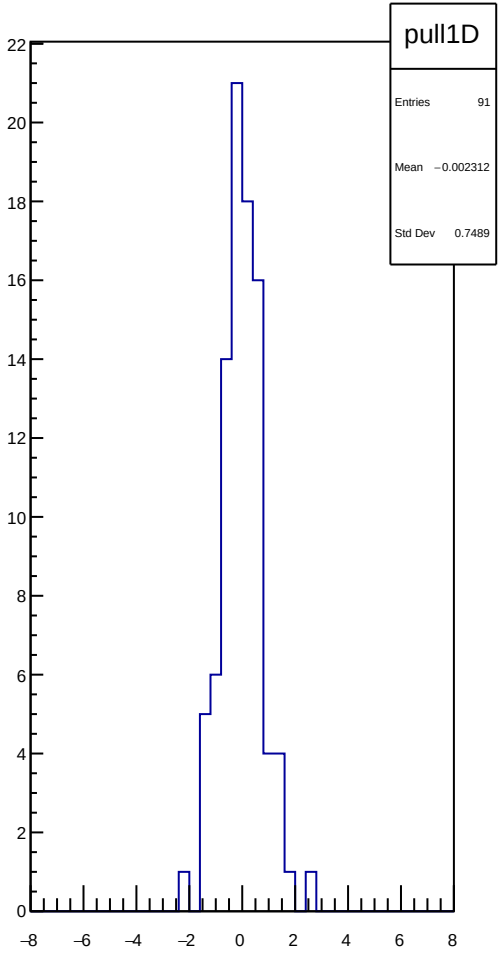

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 50.51 / 90
p0 −82.8 ± 1.745
pull
Entries 91
Mean −835.4
Std Dev 865.2

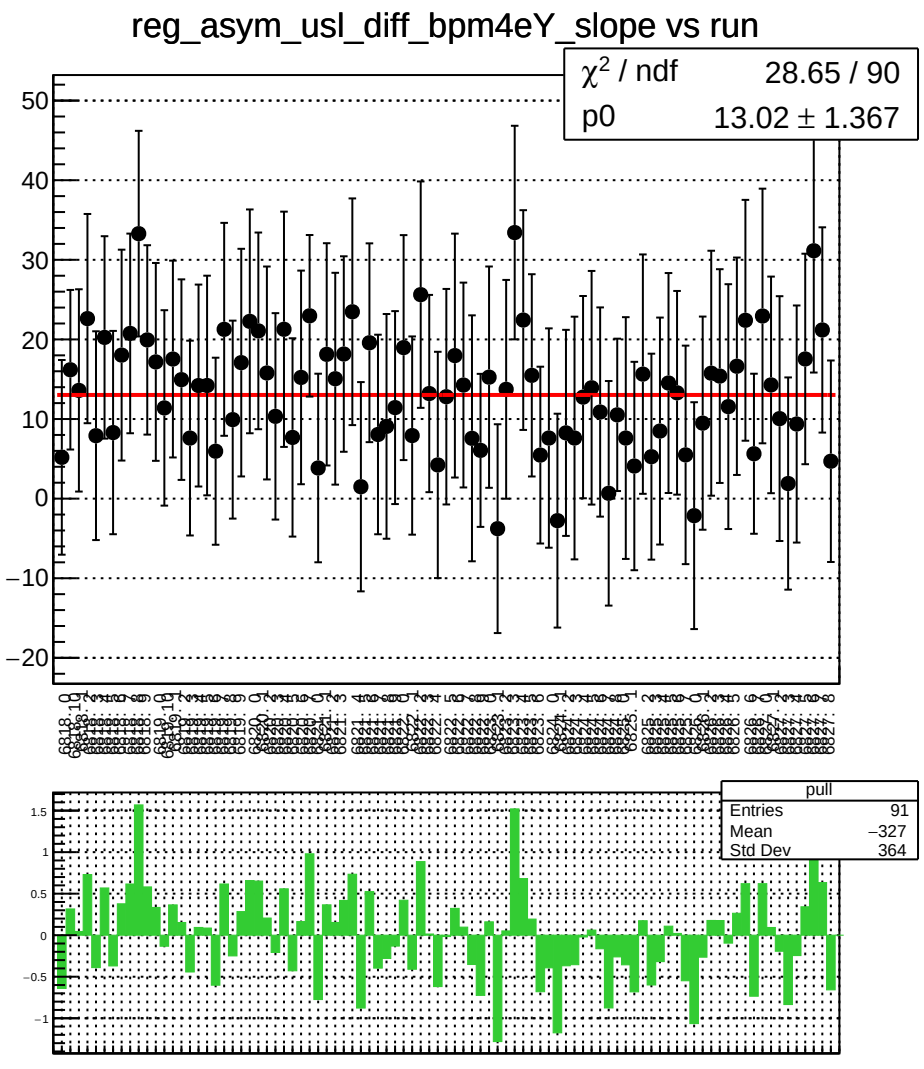

pull1D
Entries 91
Mean 0.001219
Std Dev 0.745

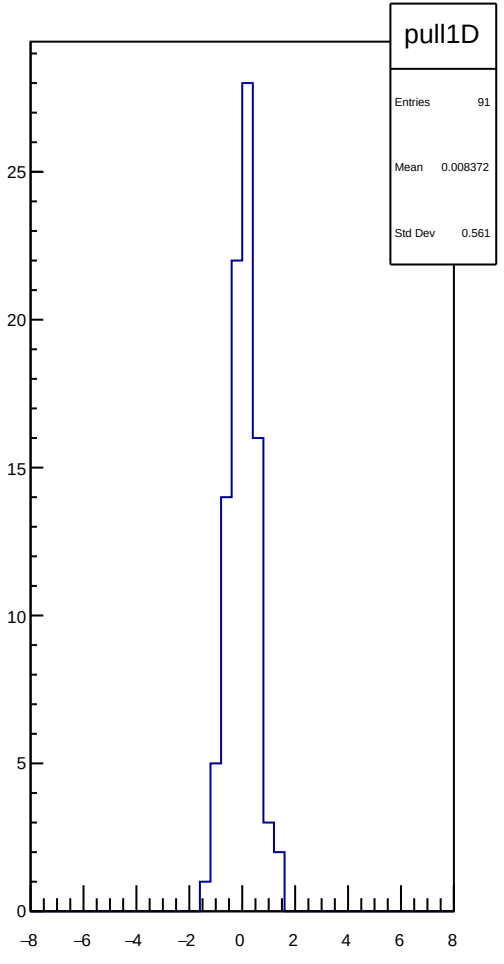

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 24.67 / 90
p0 4.454 ± 1.179
pull
Entries 91
Mean −57.92
Std Dev 77.76

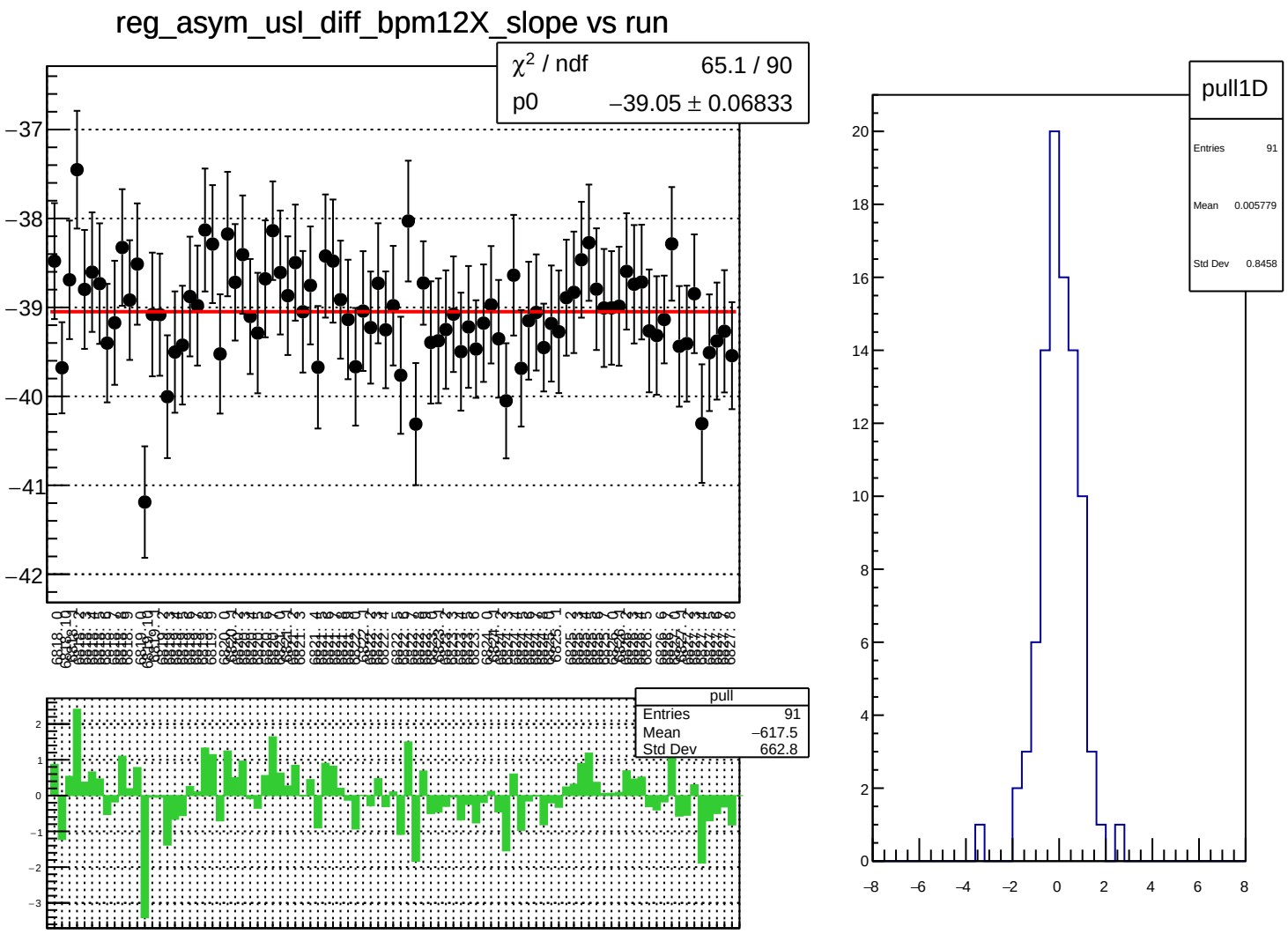

pull1D
Entries 91
Mean −0.01288
Std Dev 0.5206

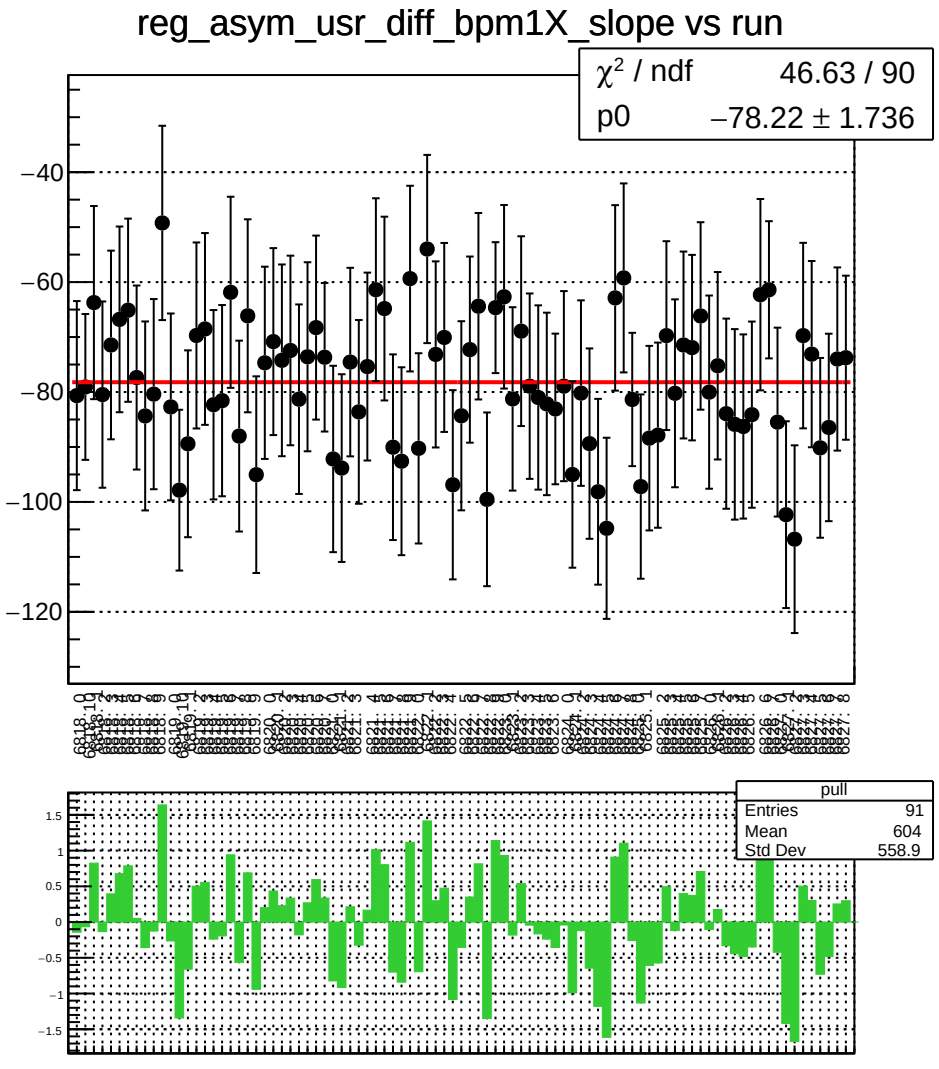

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 51.04 / 90
p0 17.51 ± 1.632
pull
Entries 91
Mean −255
Std Dev 270.9

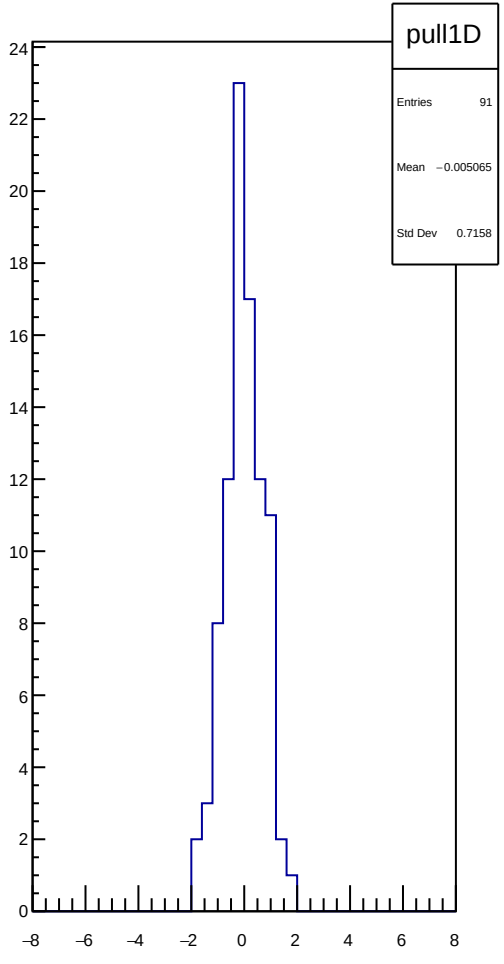

pull1D
Entries 91
Mean −0.002312
Std Dev 0.7489

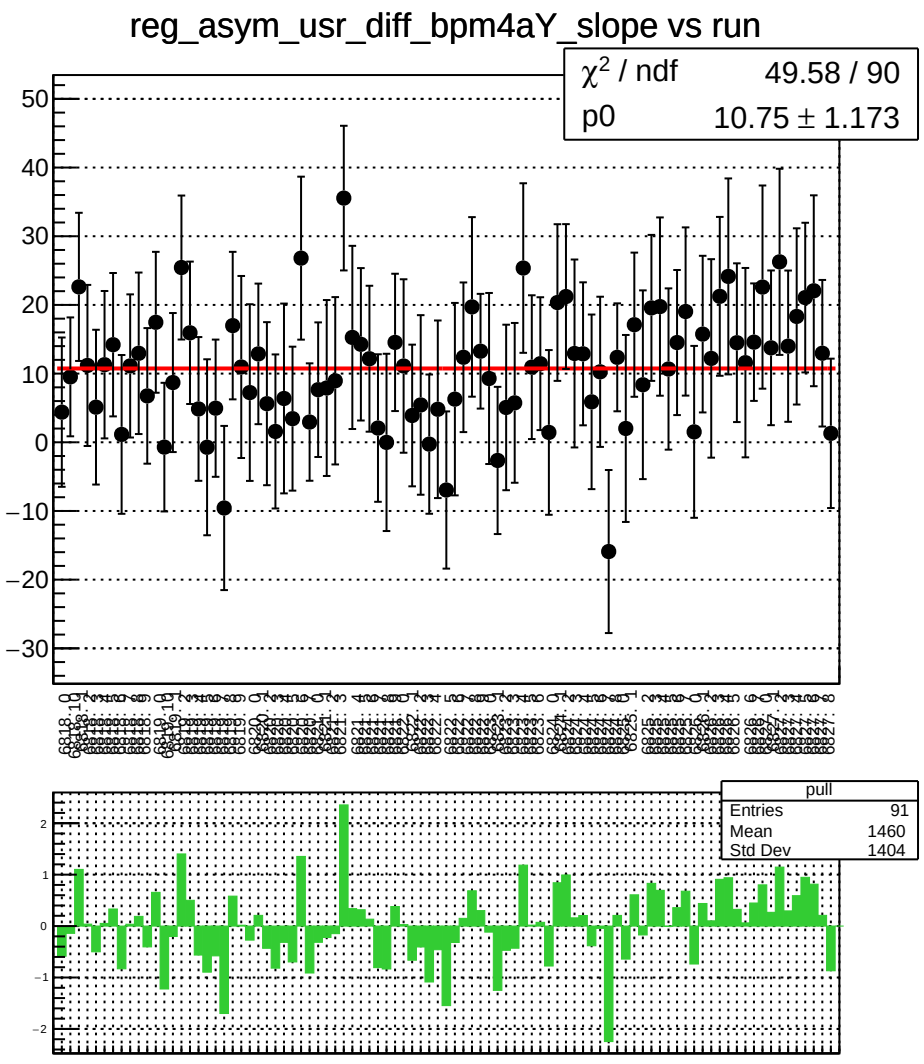

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 28.65 / 90
p0 13.02 ± 1.367
pull
Entries 91
Mean −327
Std Dev 364

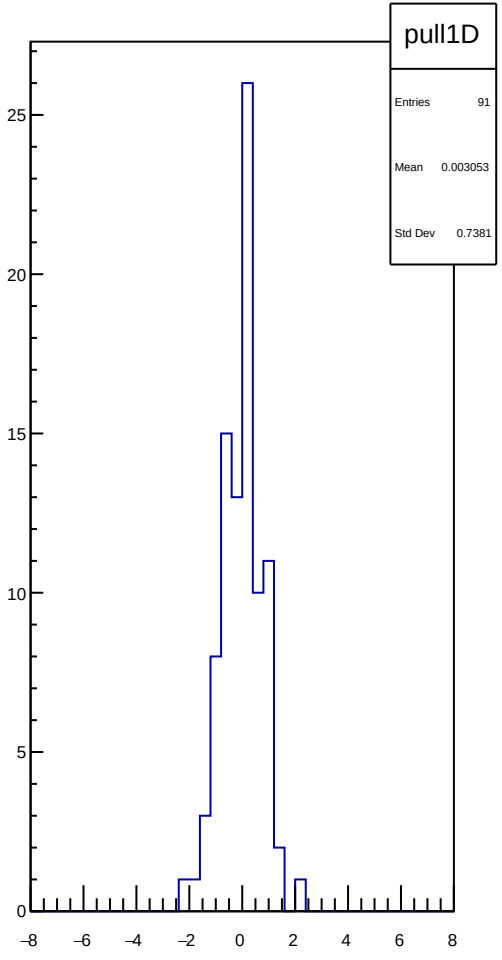

pull1D
Entries 91
Mean 0.008372
Std Dev 0.561

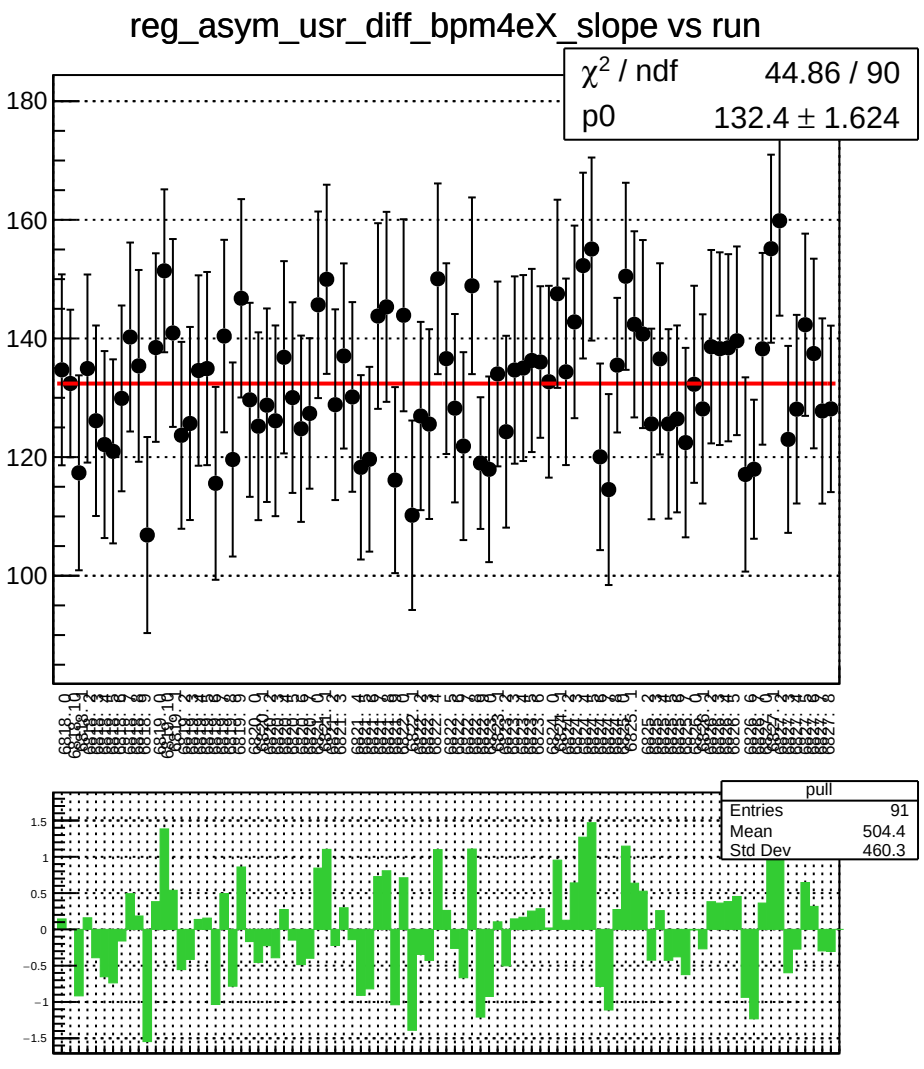

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 65.1 / 90
p0 −39.05 ± 0.06833
pull
Entries 91
Mean −617.5
Std Dev 662.8
pull1D
Entries 91
Mean 0.005779
Std Dev 0.8458

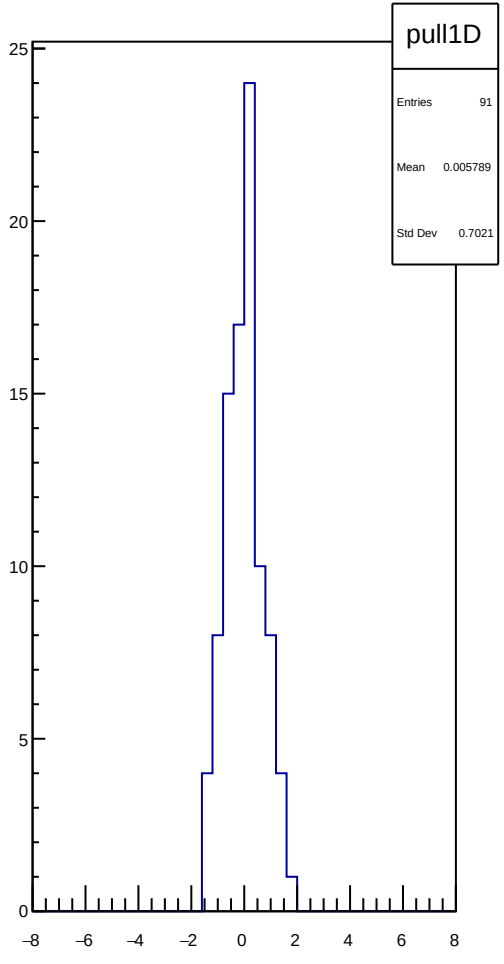

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 46.63 / 90
p0 −78.22 ± 1.736
−40
−60
−80
−100
−120
pull
Entries 91
Mean 604
Std Dev 558.9
1.5
1
0.5
0
−0.5
−1
−1.5

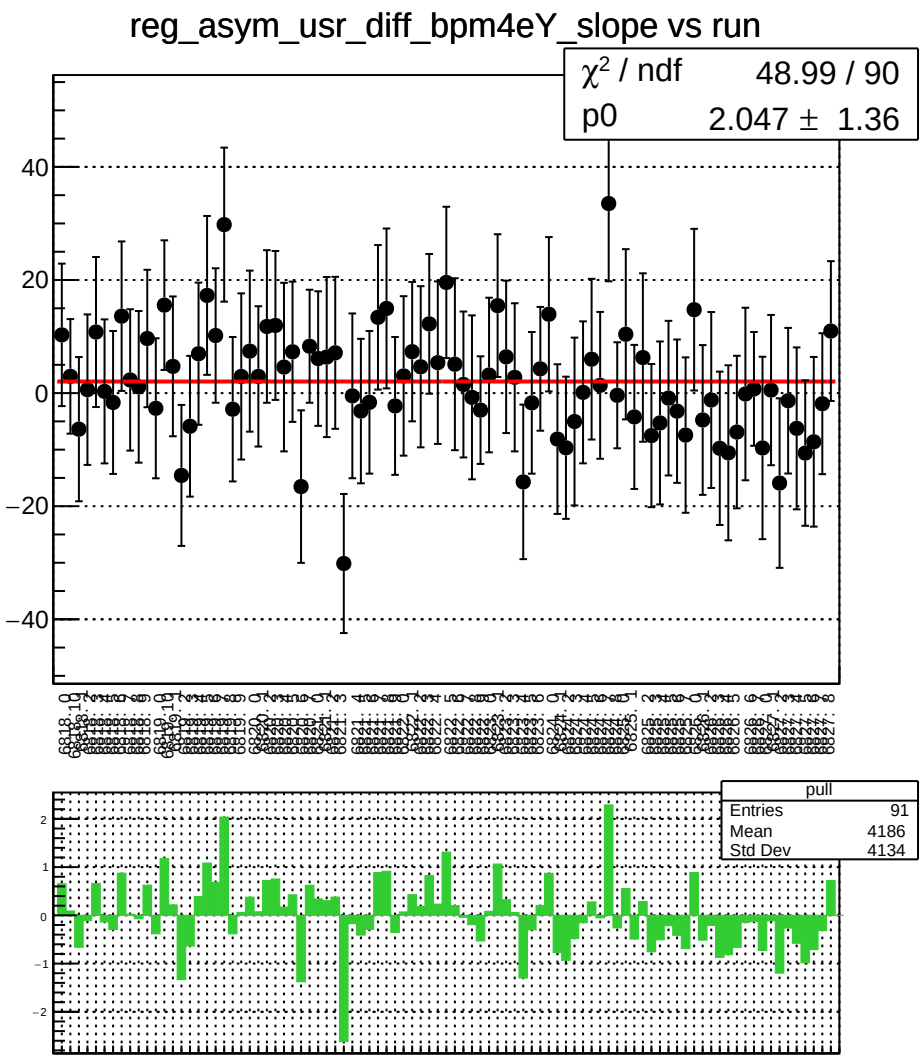

pull1D
Entries 91
Mean −0.005065
Std Dev 0.7158
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

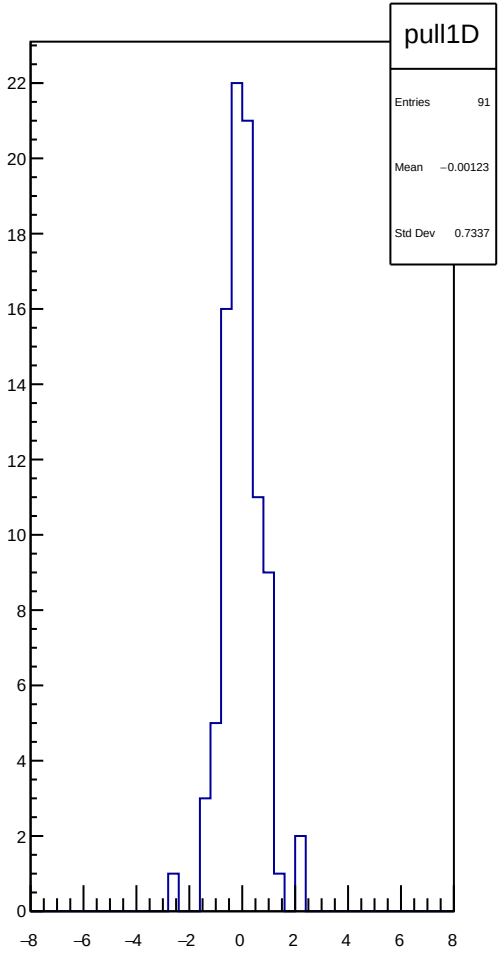

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 49.58 / 90
p0 10.75 ± 1.173
pull
Entries 91
Mean 1460
Std Dev 1404

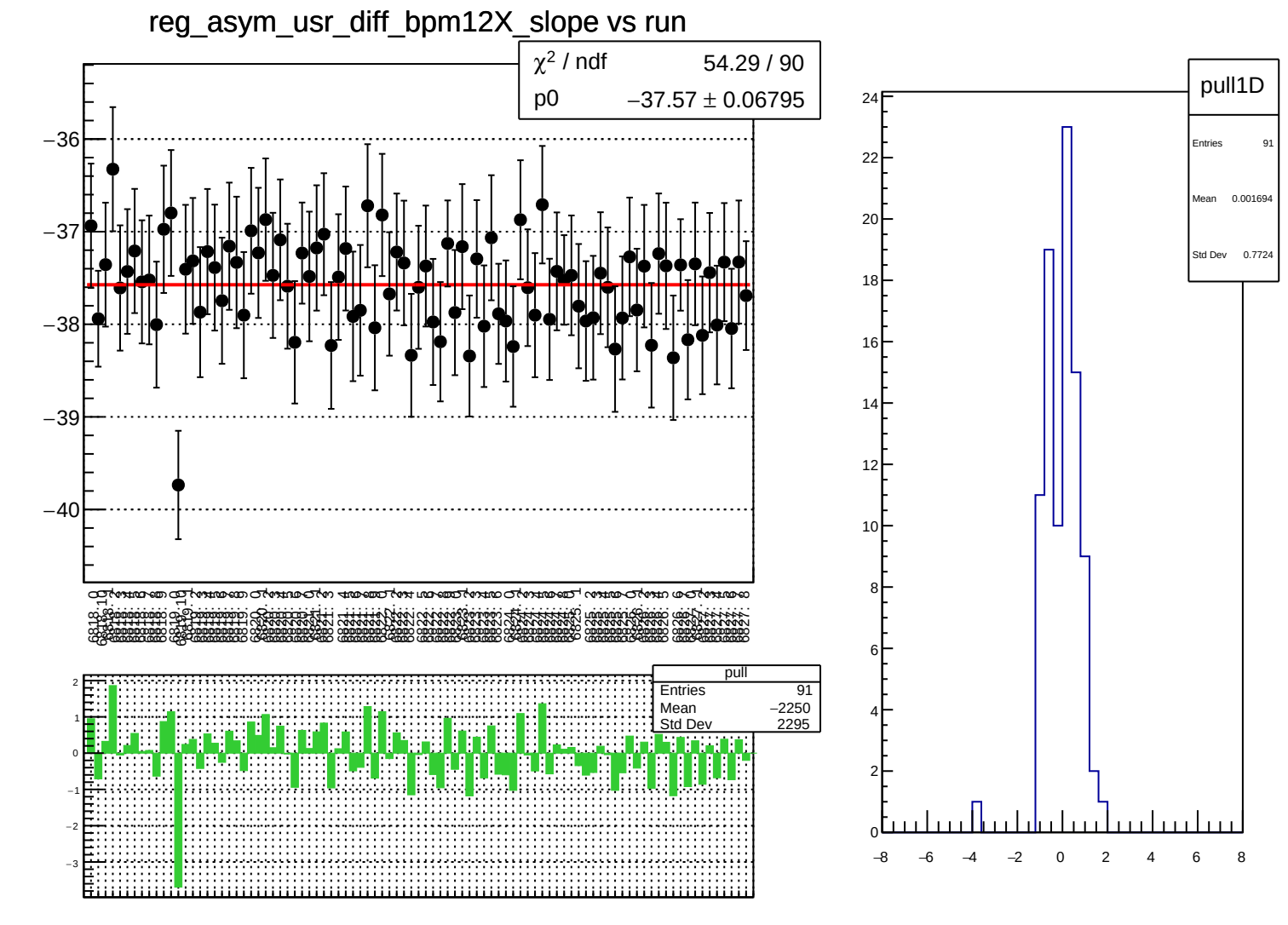

pull1D
Entries 91
Mean 0.003053
Std Dev 0.7381

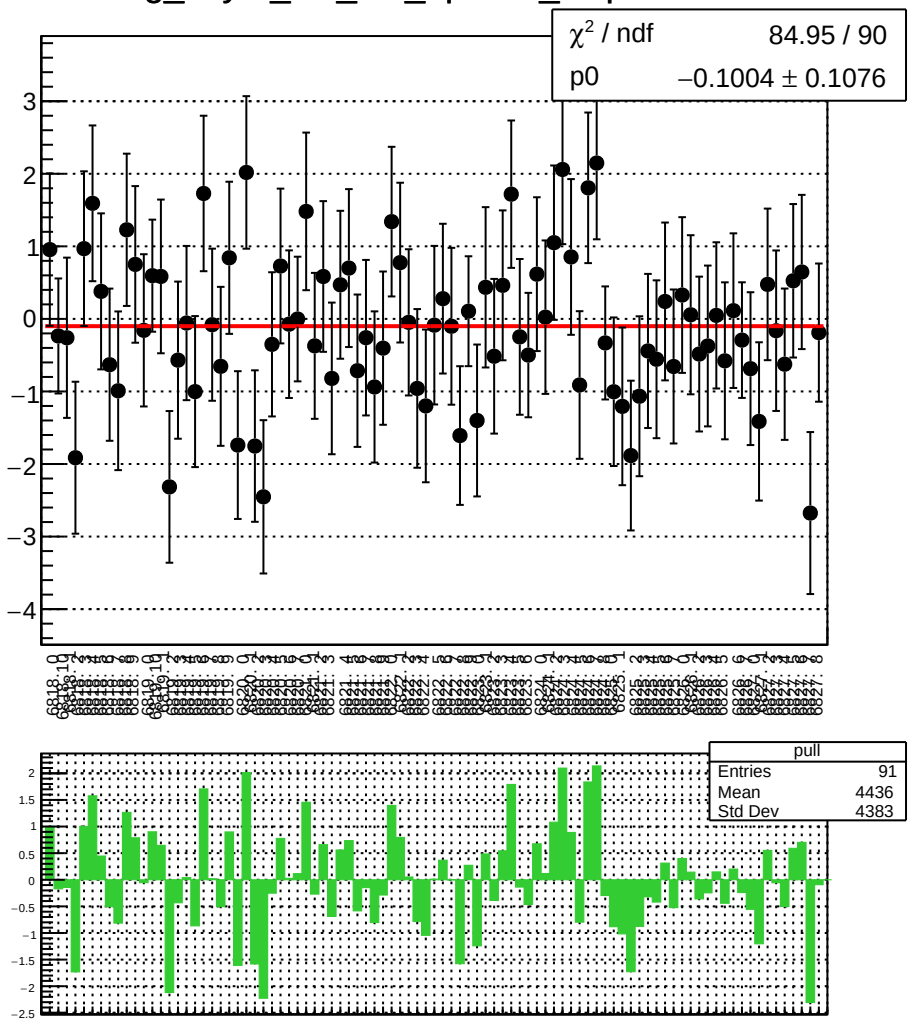

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 44.86 / 90
p0 132.4 ± 1.624
180
160
140
120
100
pull
Entries 91
Mean 504.4
Std Dev 460.3
1.5
1
0.5
0
−0.5
−1
−1.5

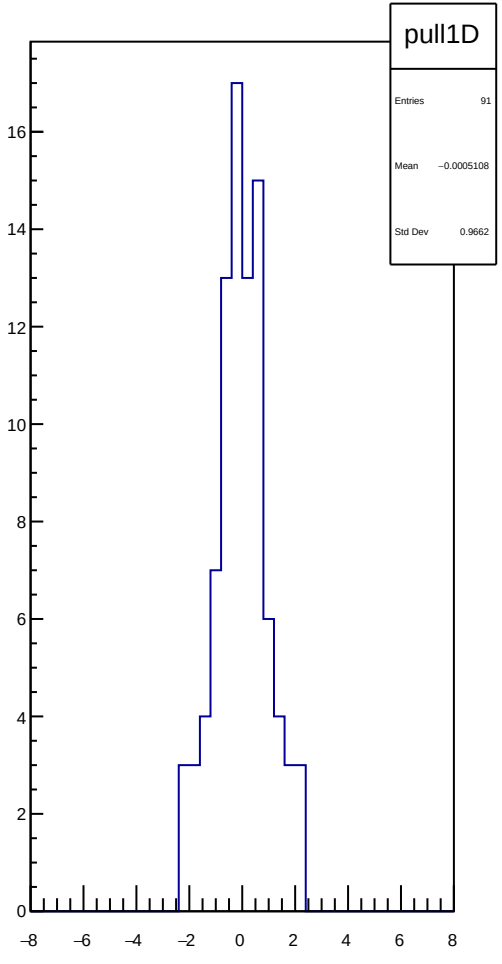

pull1D
Entries 91
Mean 0.005789
Std Dev 0.7021
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

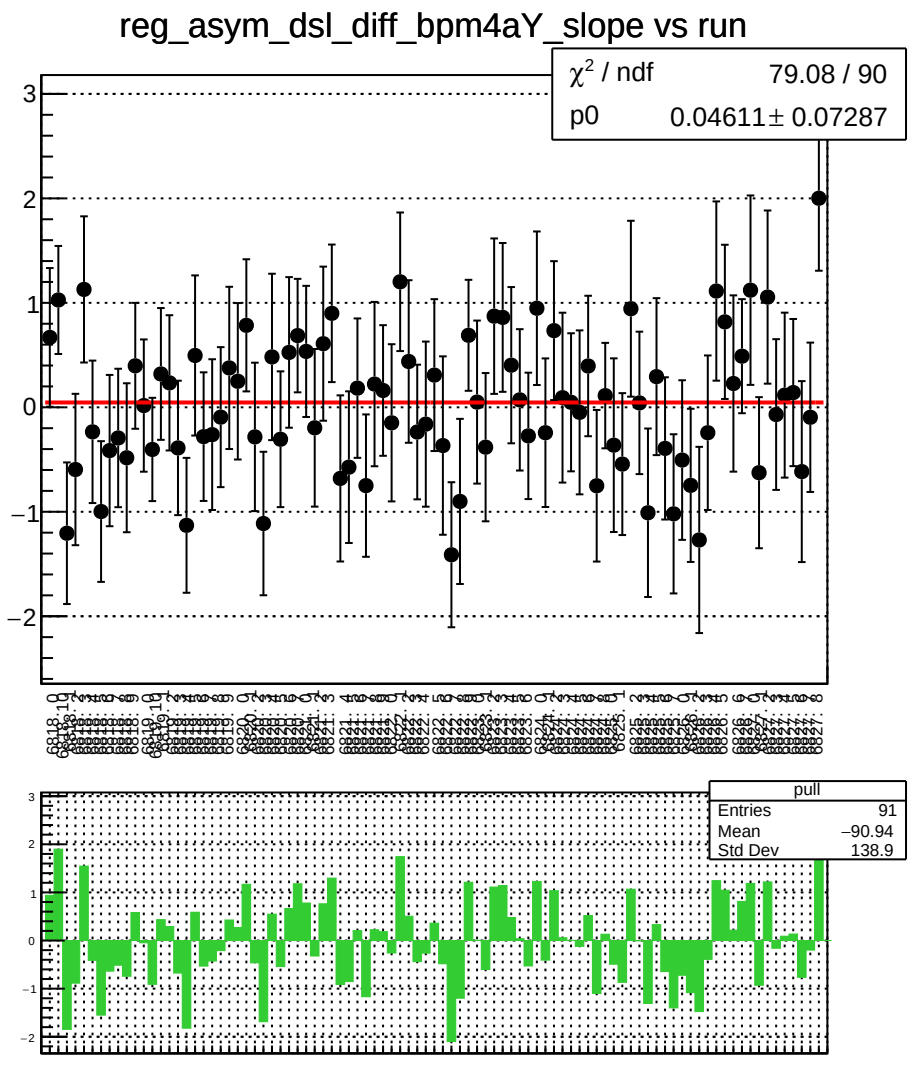

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 48.99 / 90
p0 2.047 ± 1.36
pull
Entries 91
Mean 4186
Std Dev 4134

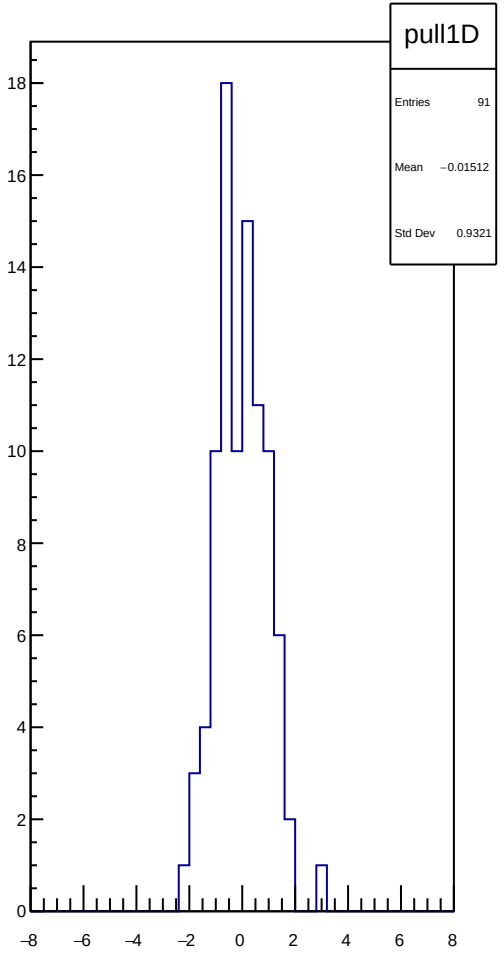

pull1D
Entries 91
Mean −0.00123
Std Dev 0.7337

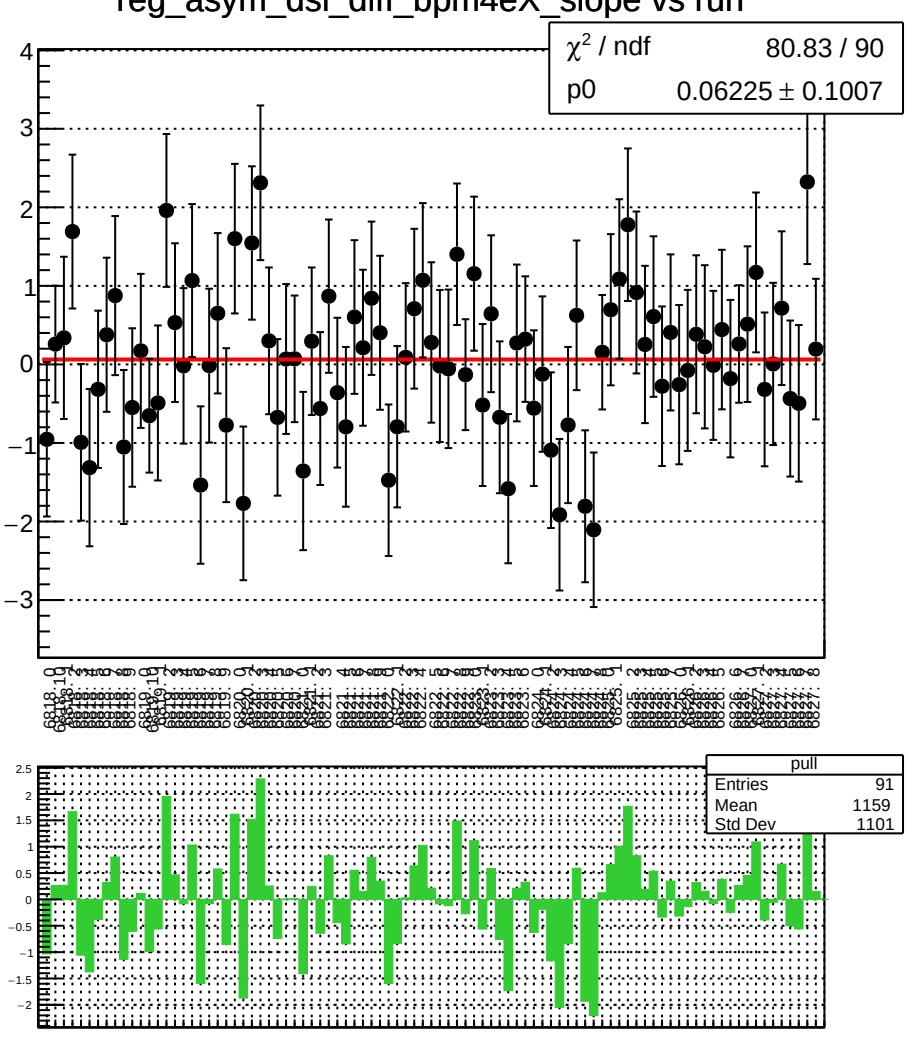

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 54.29 / 90
p0 −37.57 ± 0.06795
−36
−37
−38
−39
−40
pull
Entries 91
Mean −2250
Std Dev 2295
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.001694
Std Dev 0.7724
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

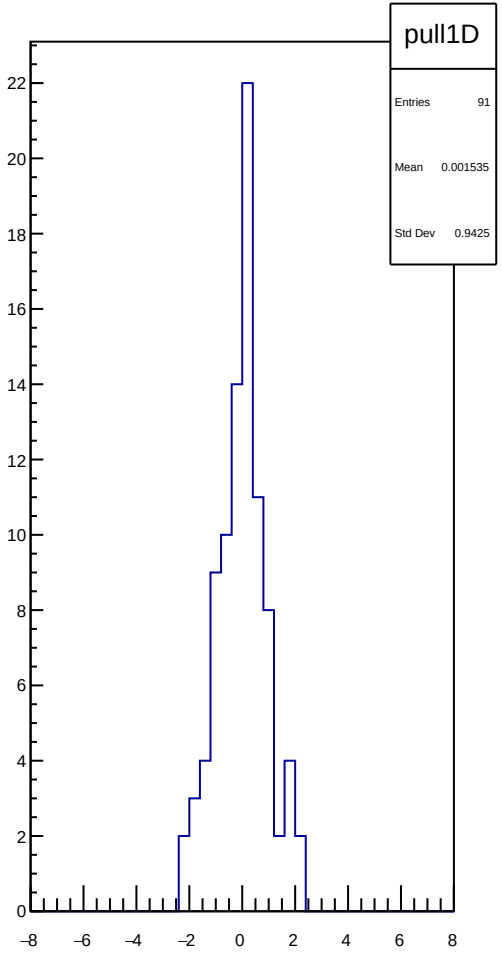

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 84.95 / 90
p0 −0.1004 ± 0.1076
pull
Entries 91
Mean 4436
Std Dev 4383

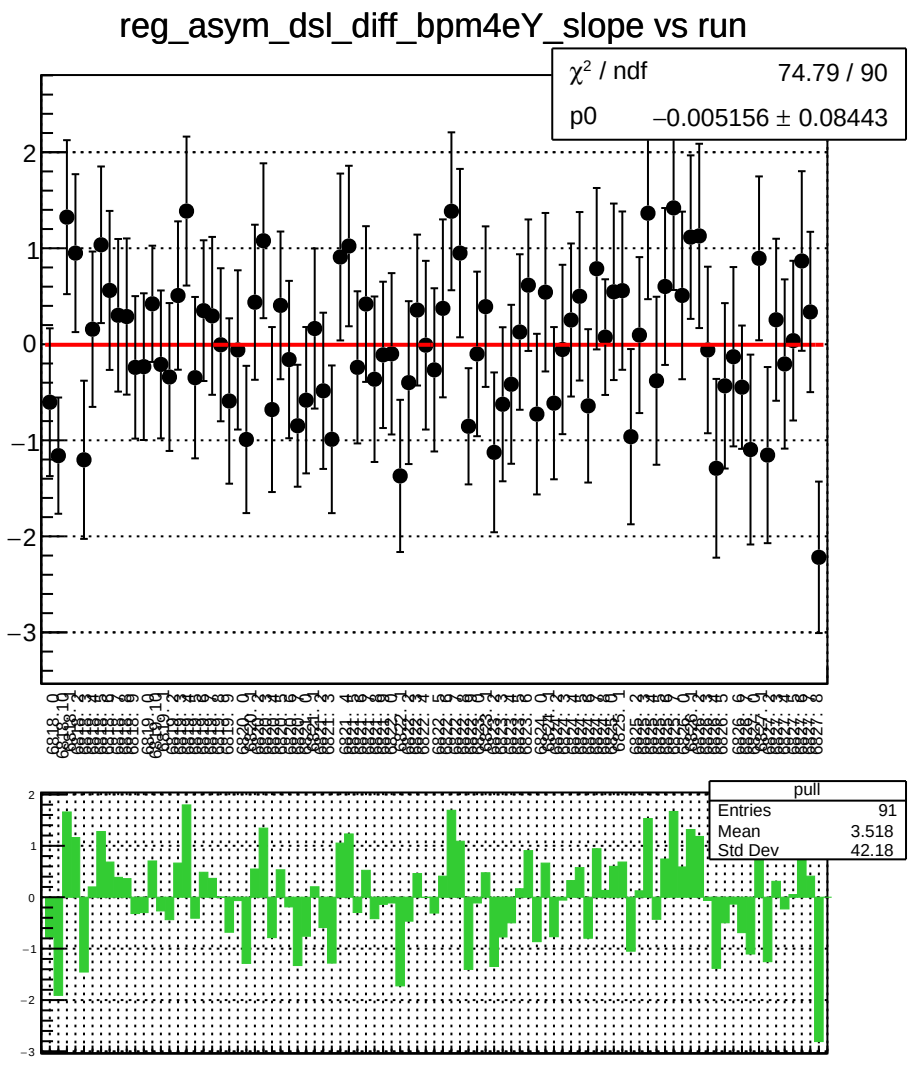

pull1D
Entries 91
Mean −0.0005108
Std Dev 0.9662

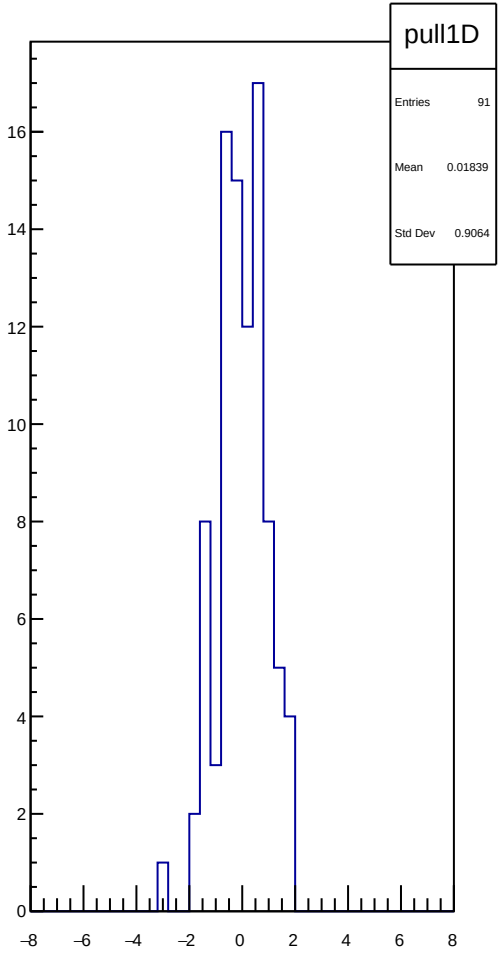

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 79.08 / 90
p0 0.04611 ± 0.07287
pull
Entries 91
Mean −90.94
Std Dev 138.9

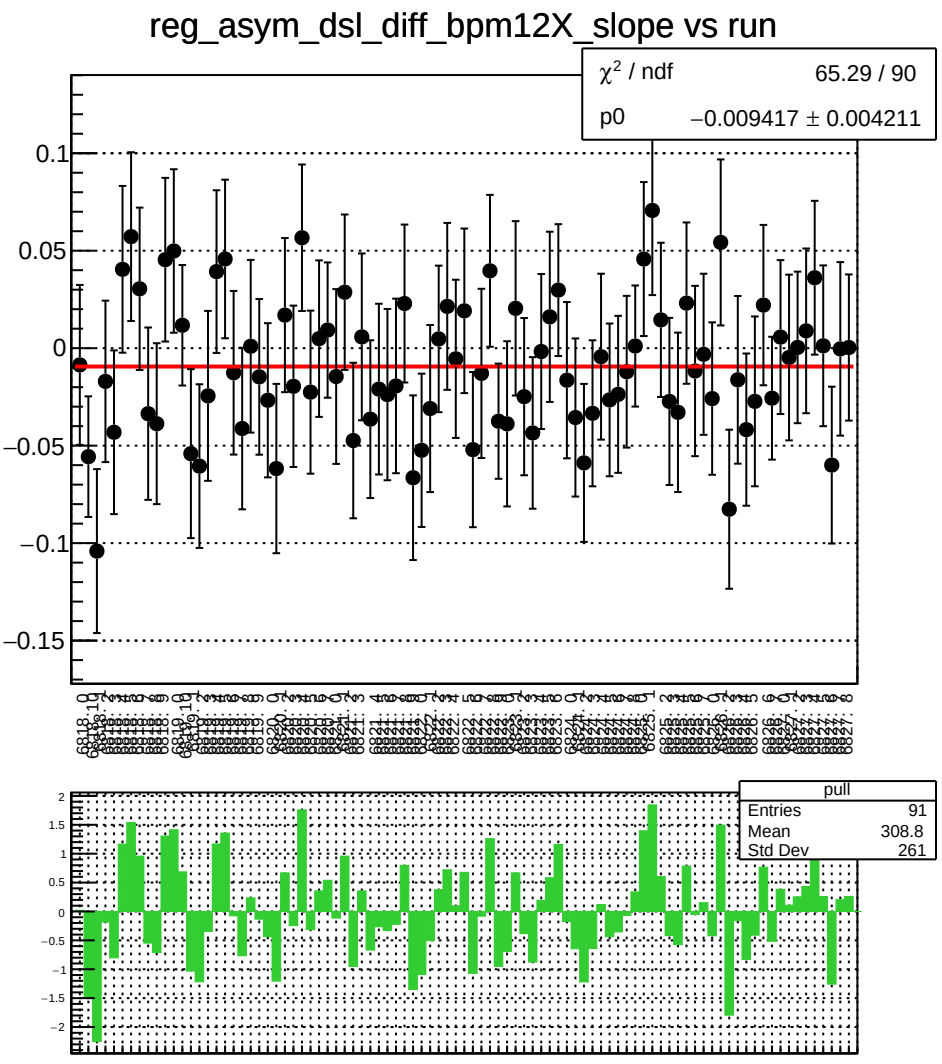

pull1D
Entries 91
Mean −0.01512
Std Dev 0.9321

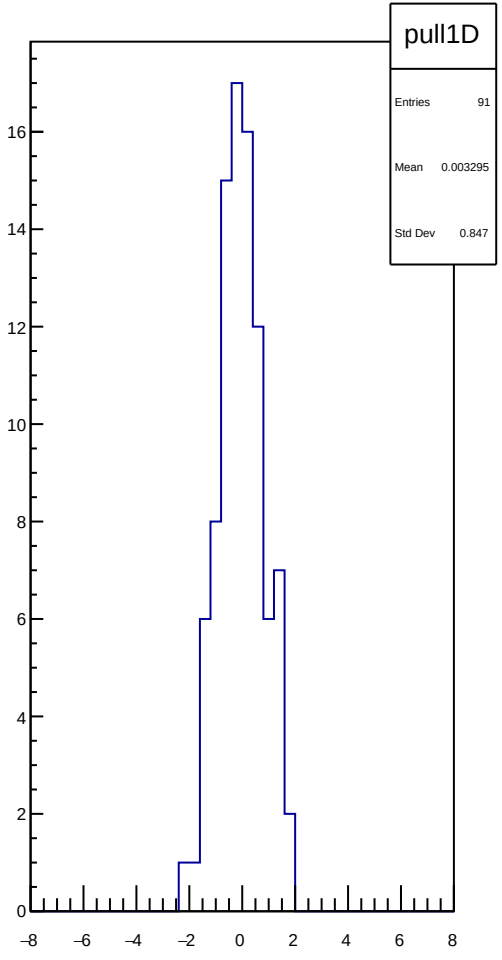

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 80.83 / 90
p0 0.06225 ± 0.1007
pull
Entries 91
Mean 1159
Std Dev 1101

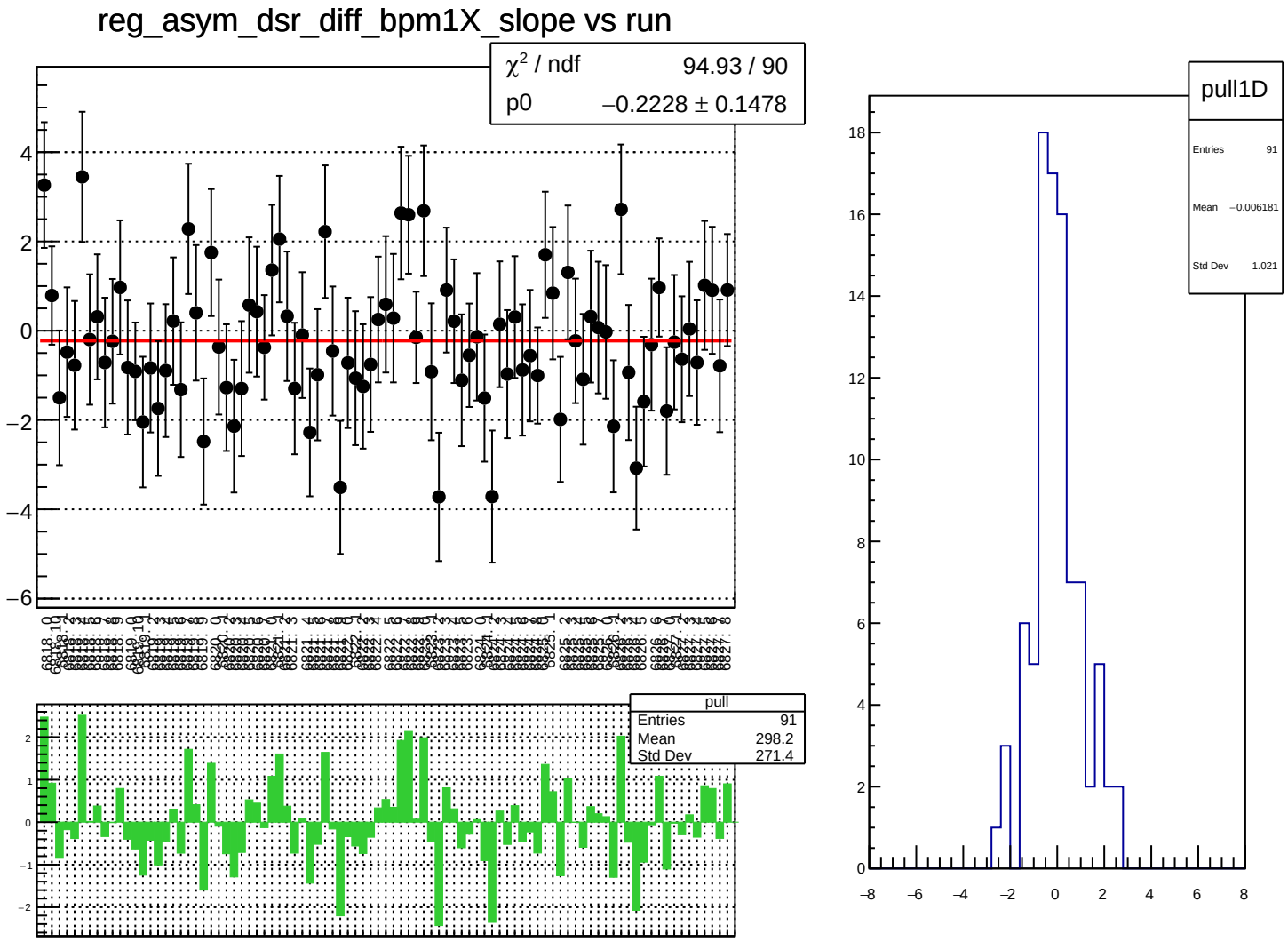

pull1D
Entries 91
Mean 0.001535
Std Dev 0.9425

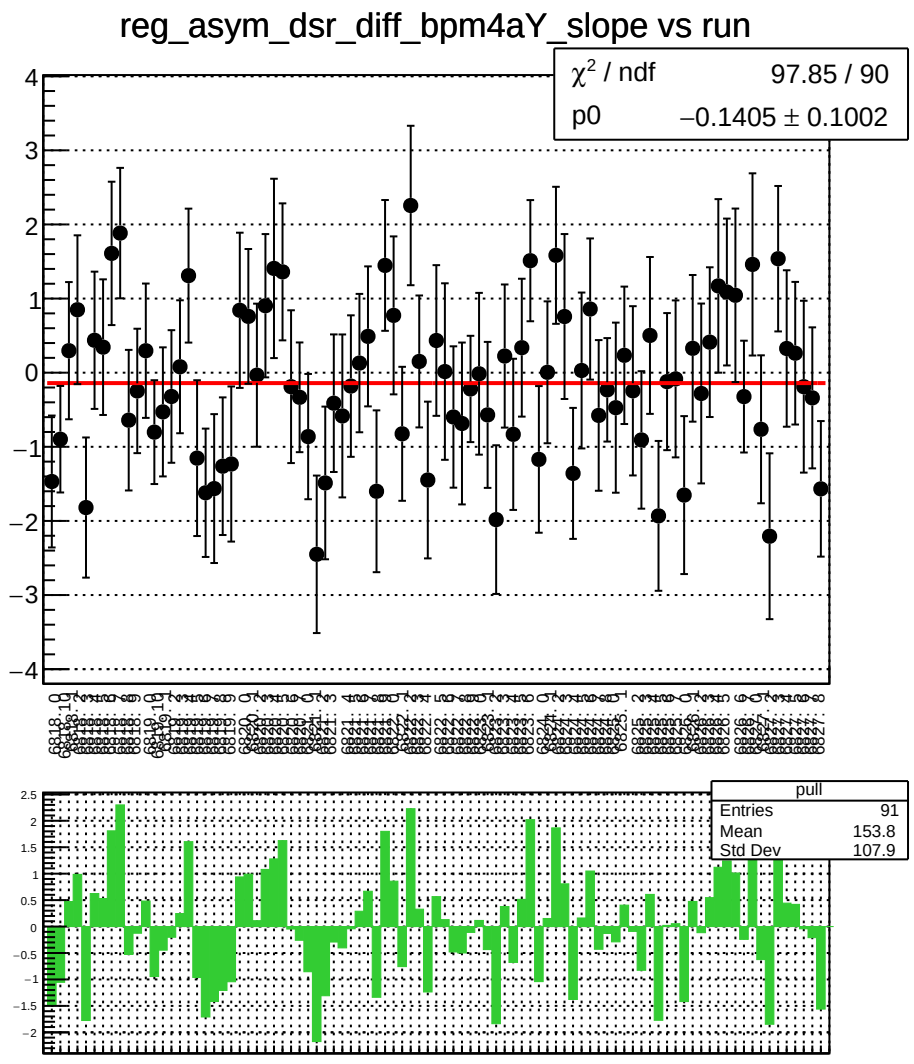

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 74.79 / 90
p0 −0.005156 ± 0.08443
pull
Entries 91
Mean 3.518
Std Dev 42.18

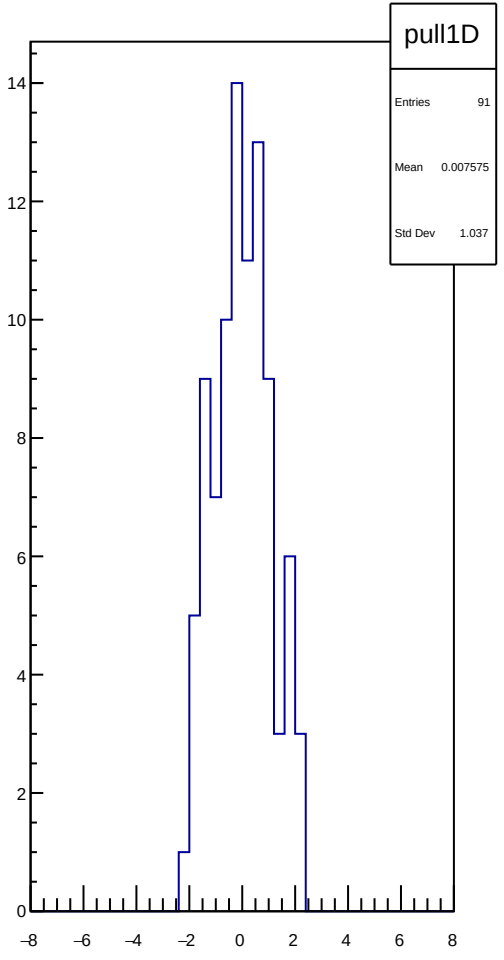

pull1D
Entries 91
Mean 0.01839
Std Dev 0.9064

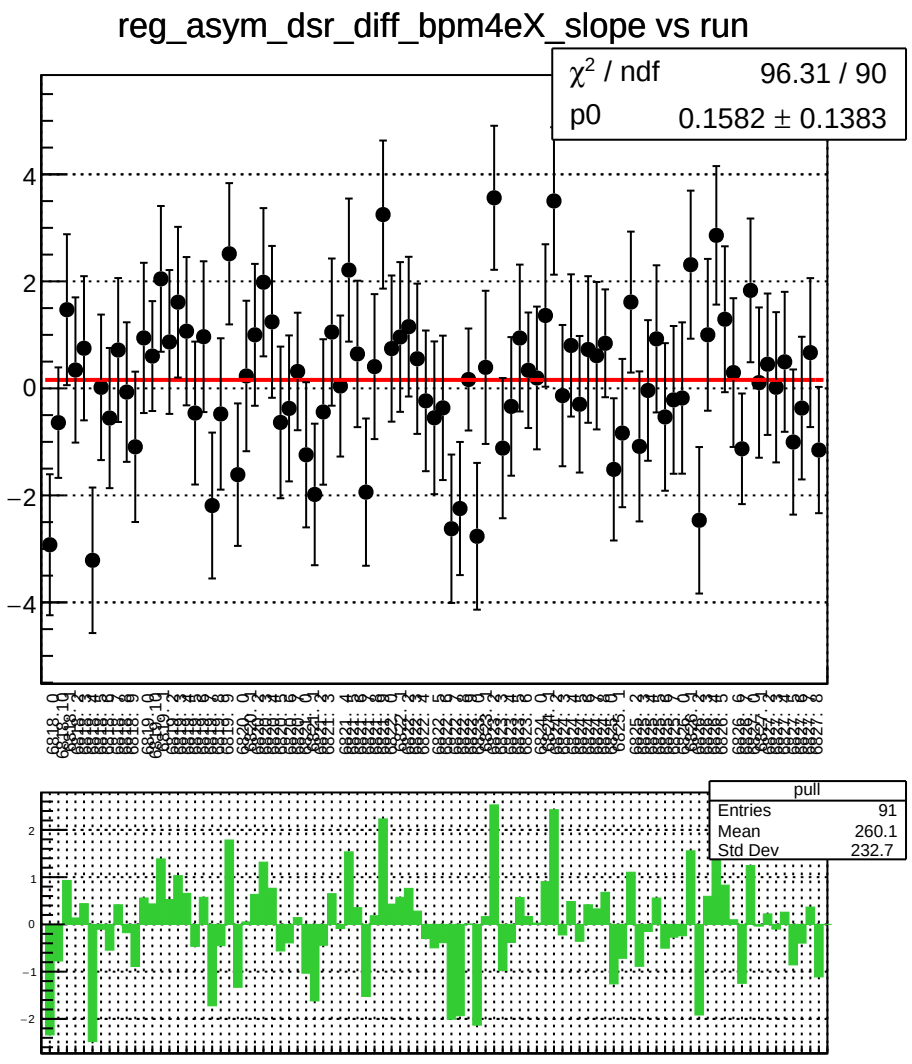

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 65.29 / 90
p0 −0.009417 ± 0.004211
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 308.8
Std Dev 261
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

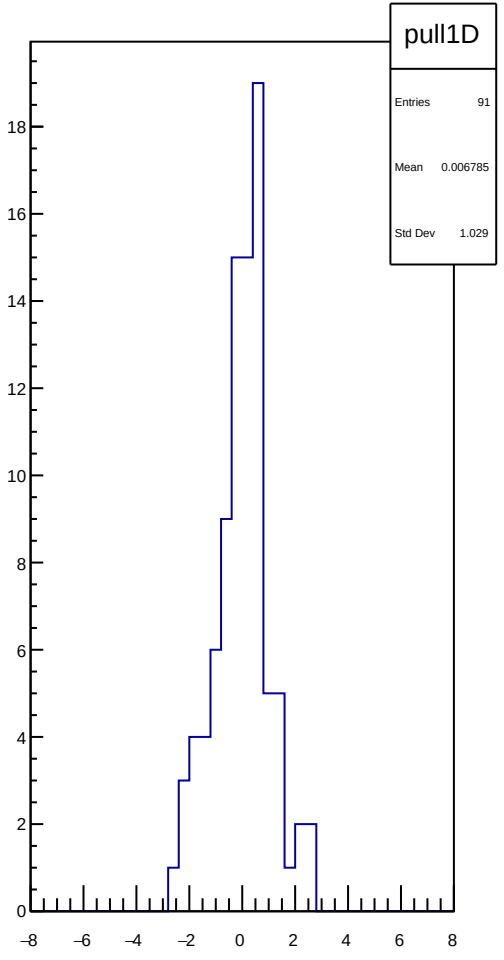

pull1D
Entries 91
Mean 0.003295
Std Dev 0.847
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

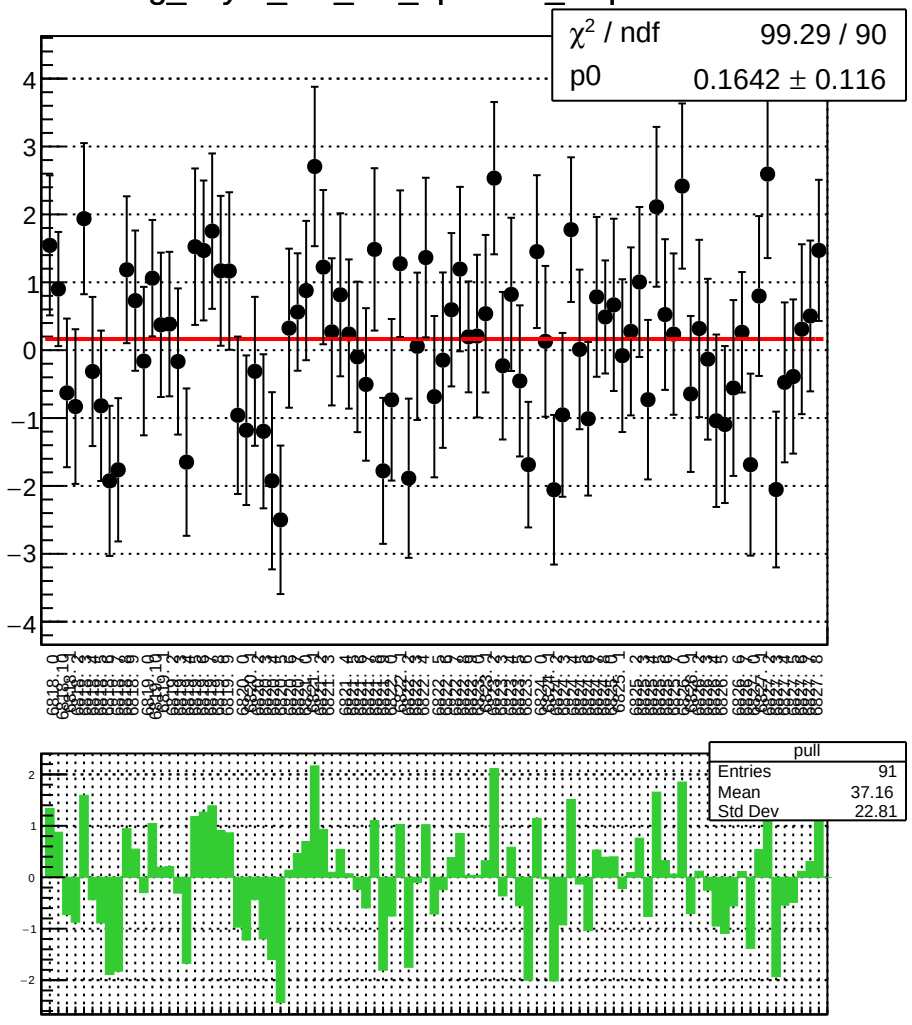

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 94.93 / 90
p0 −0.2228 ± 0.1478
pull
Entries 91
Mean 298.2
Std Dev 271.4
pull1D
Entries 91
Mean −0.006181
Std Dev 1.021

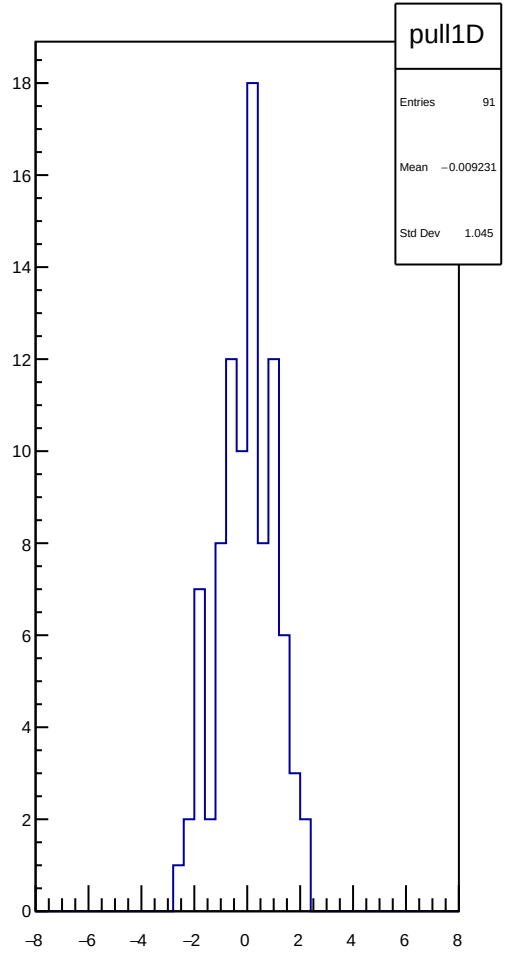

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 97.85 / 90
p0 −0.1405 ± 0.1002
pull
Entries 91
Mean 153.8
Std Dev 107.9

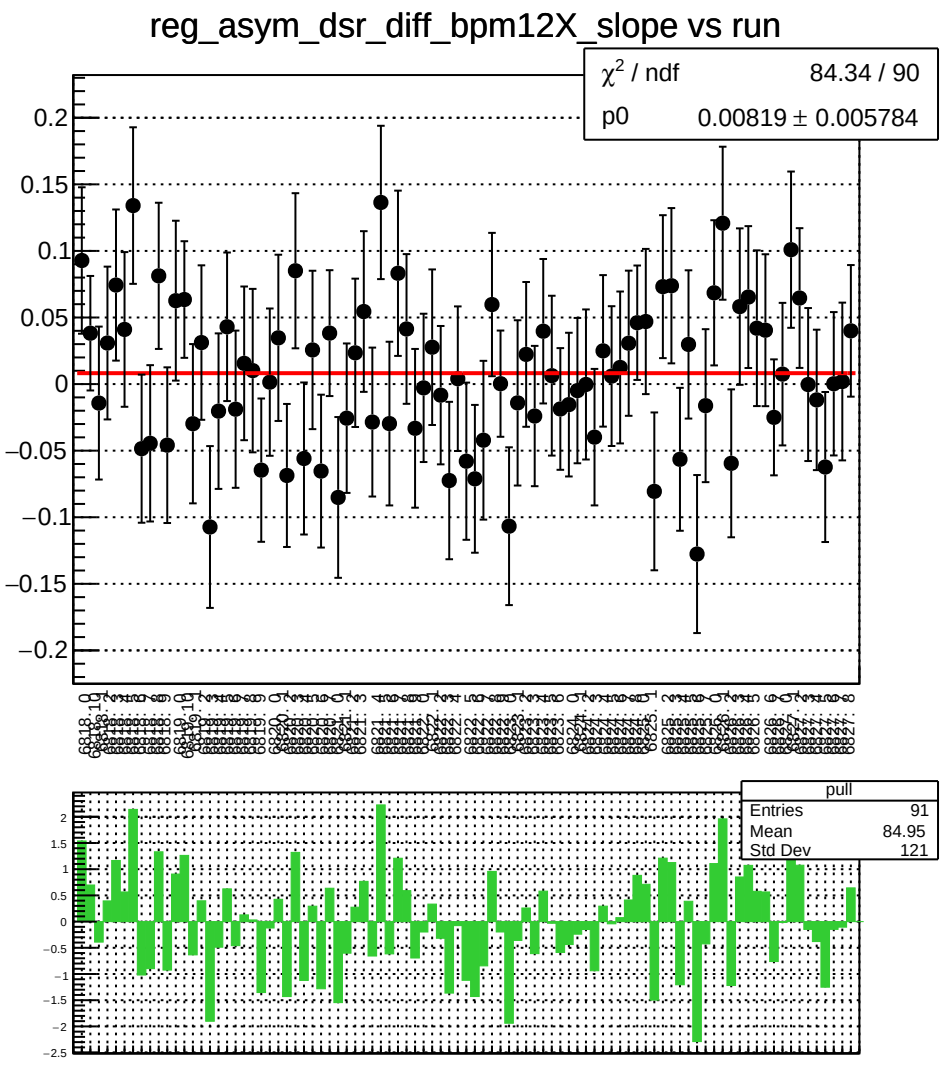

pull1D
Entries 91
Mean 0.007575
Std Dev 1.037

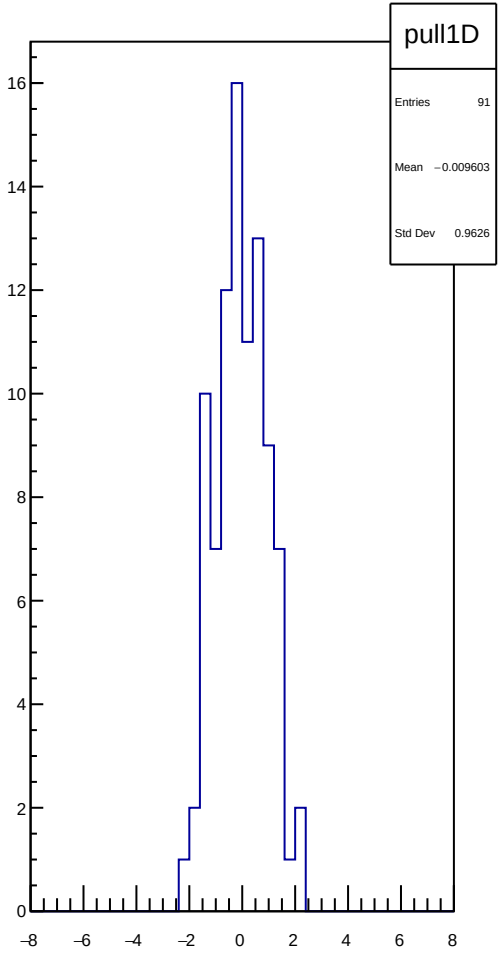

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 96.31 / 90
p0 0.1582 ± 0.1383
pull
Entries 91
Mean 260.1
Std Dev 232.7

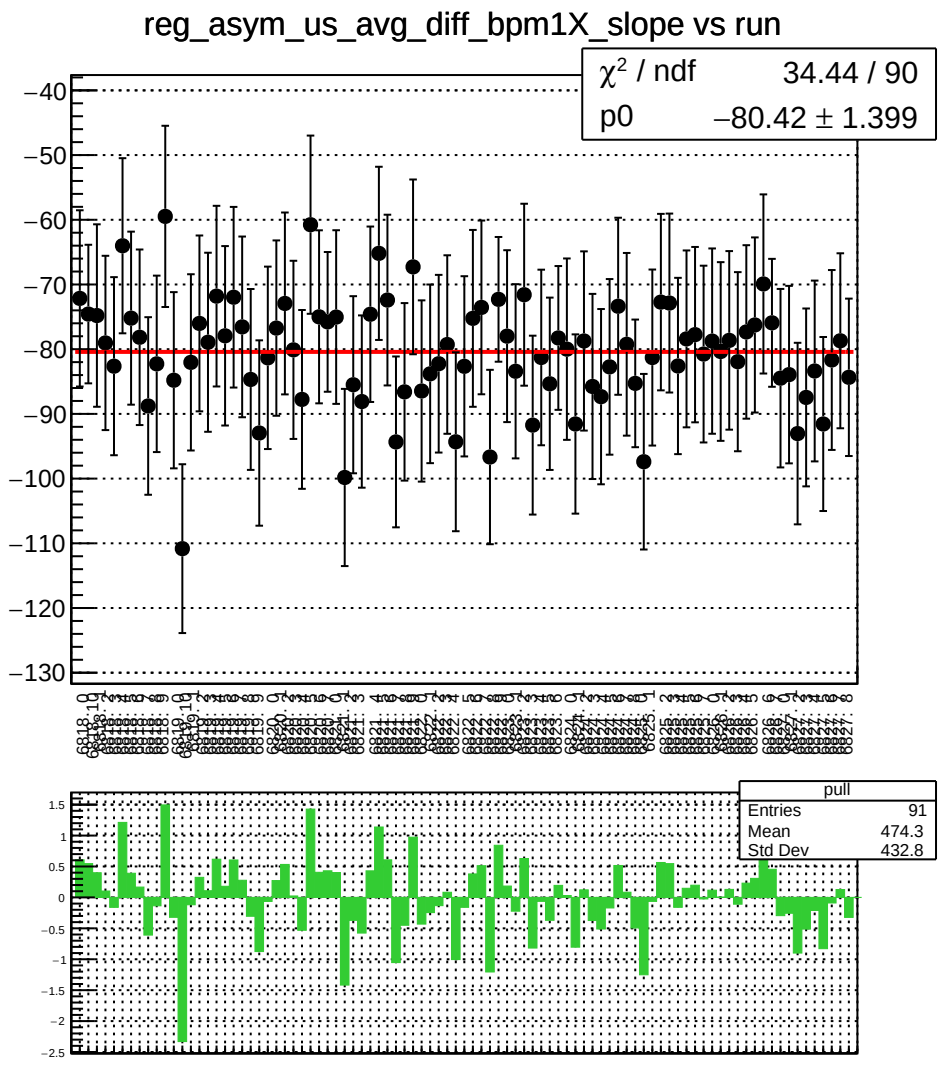

pull1D
Entries 91
Mean 0.006785
Std Dev 1.029

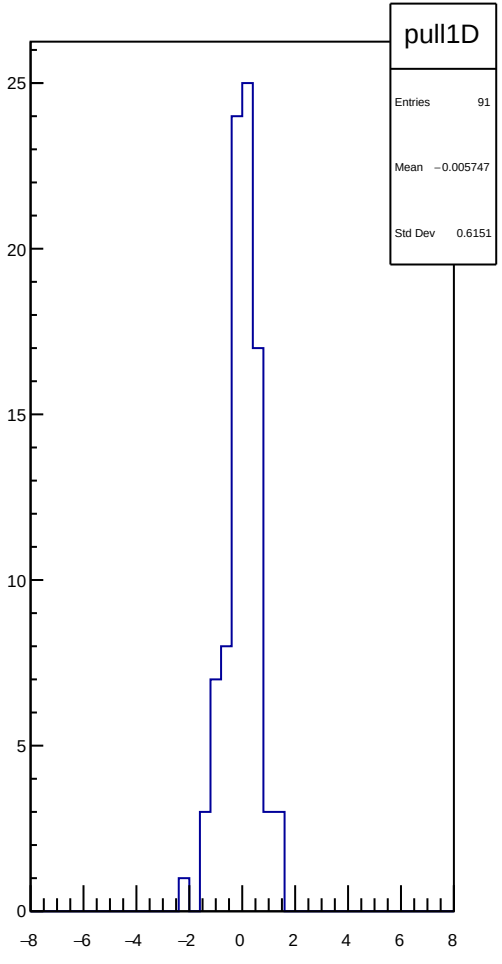

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 99.29 / 90
p0 0.1642 ± 0.116
pull
Entries 91
Mean 37.16
Std Dev 22.81

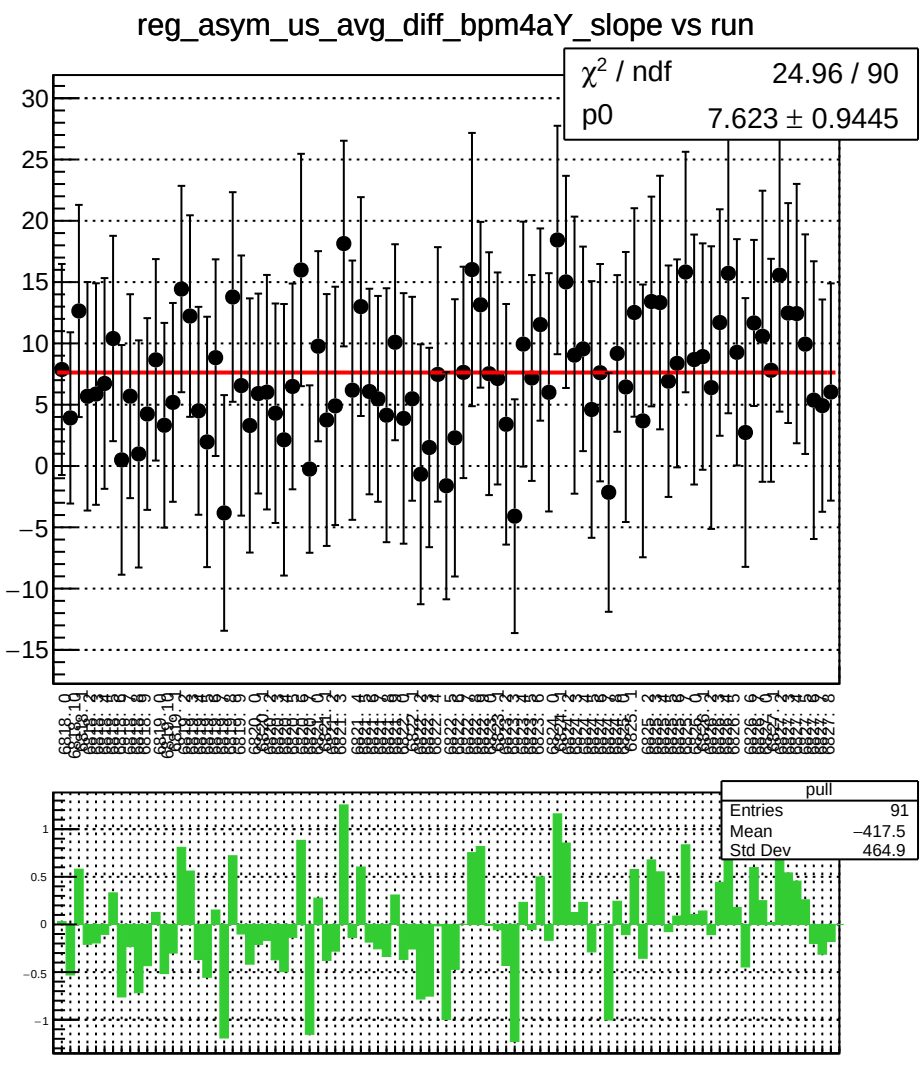

pull1D
Entries 91
Mean −0.009231
Std Dev 1.045

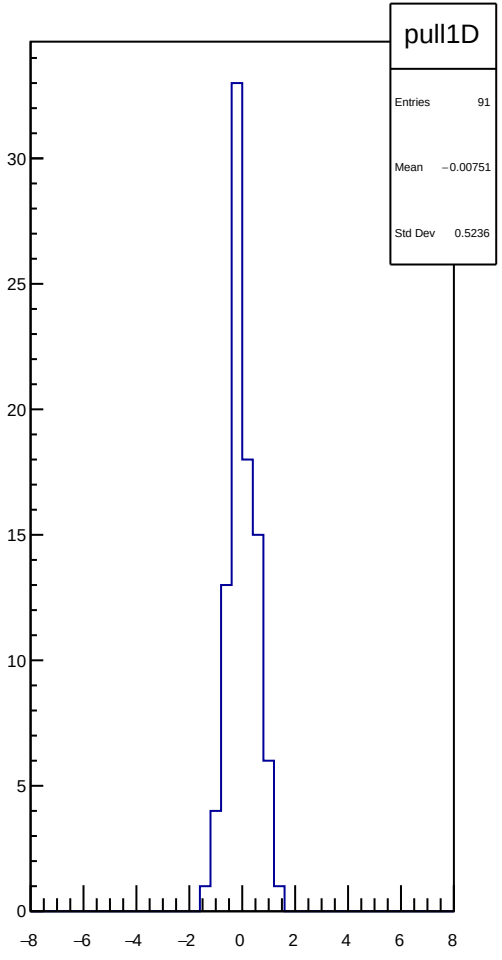

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 84.34 / 90
p0 0.00819 ± 0.005784
pull
Entries 91
Mean 84.95
Std Dev 121

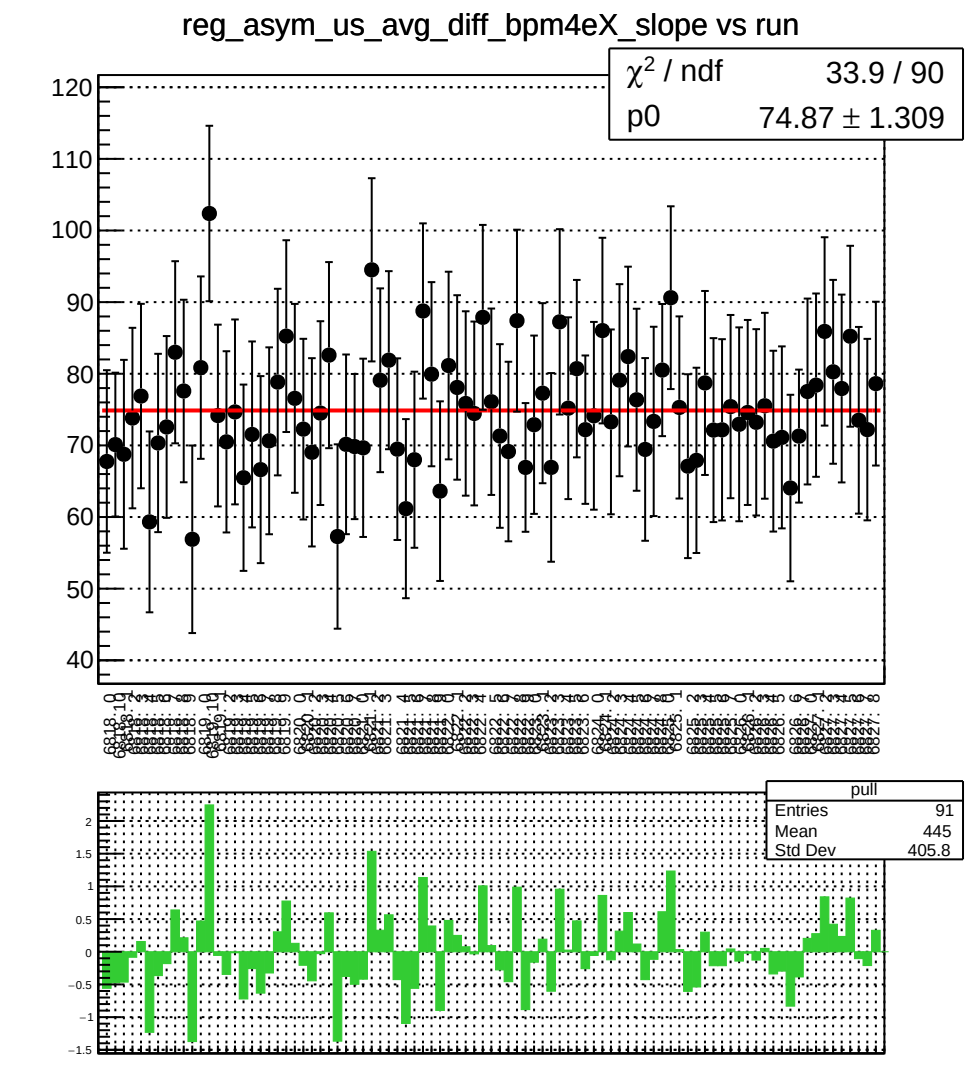

pull1D
Entries 91
Mean −0.009603
Std Dev 0.9626

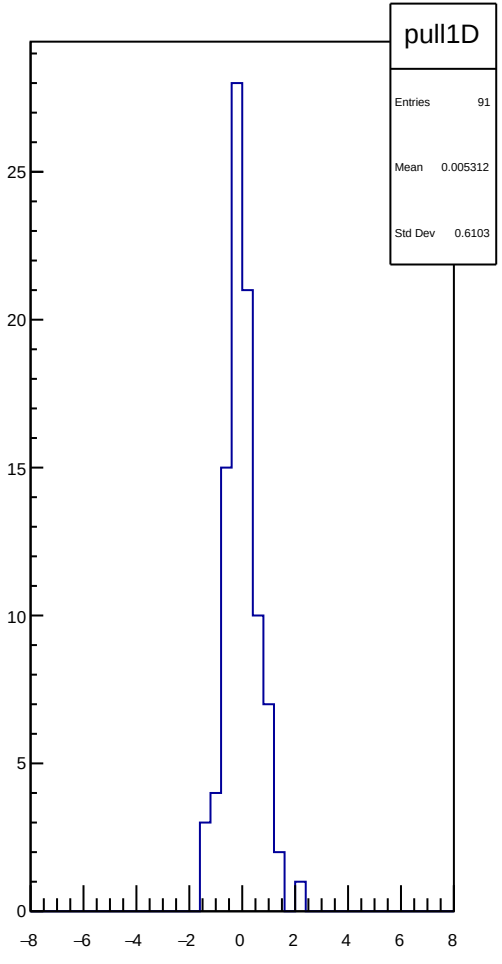

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 34.44 / 90
p0 −80.42 ± 1.399
pull
Entries 91
Mean 474.3
Std Dev 432.8

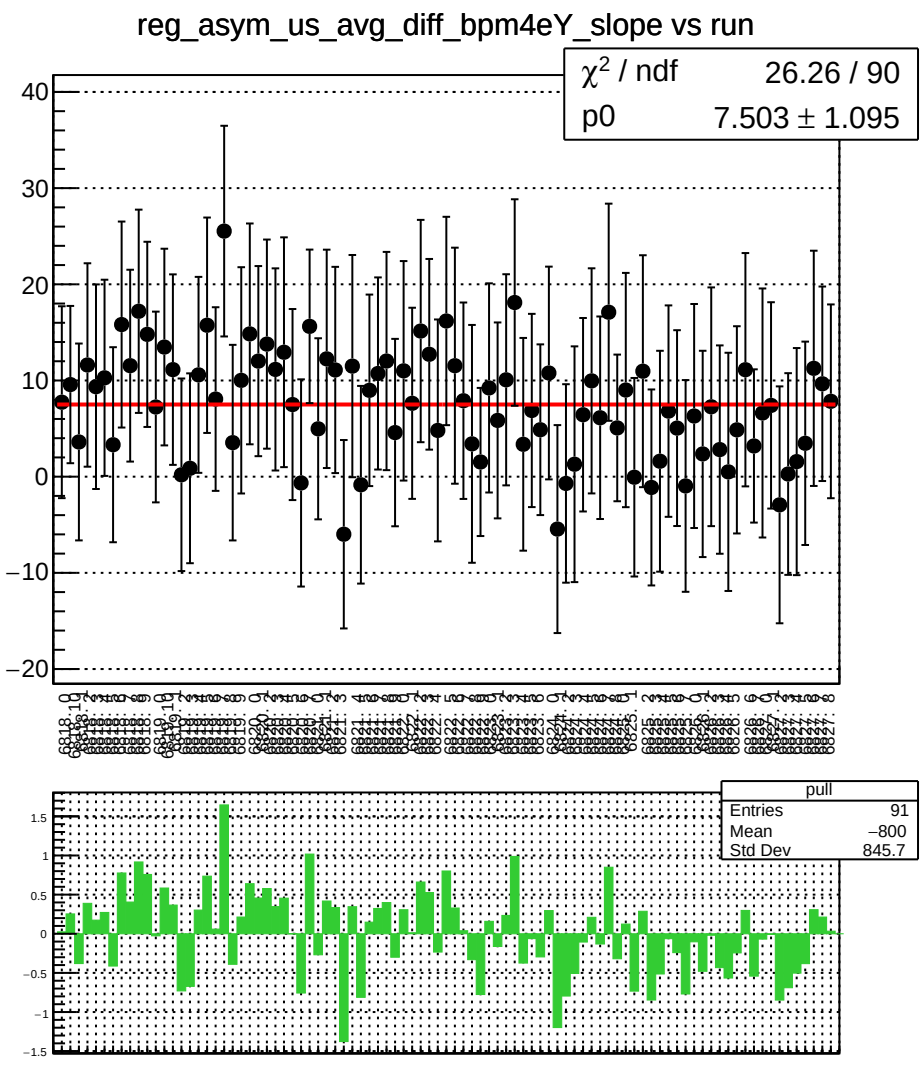

pull1D
Entries 91
Mean −0.005747
Std Dev 0.6151

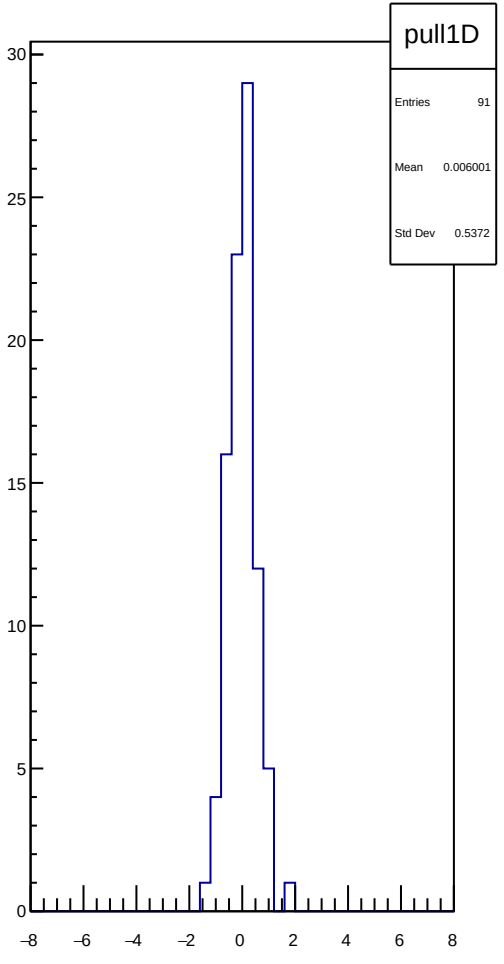

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.96 / 90
p0 7.623 ± 0.9445
pull
Entries 91
Mean −417.5
Std Dev 464.9

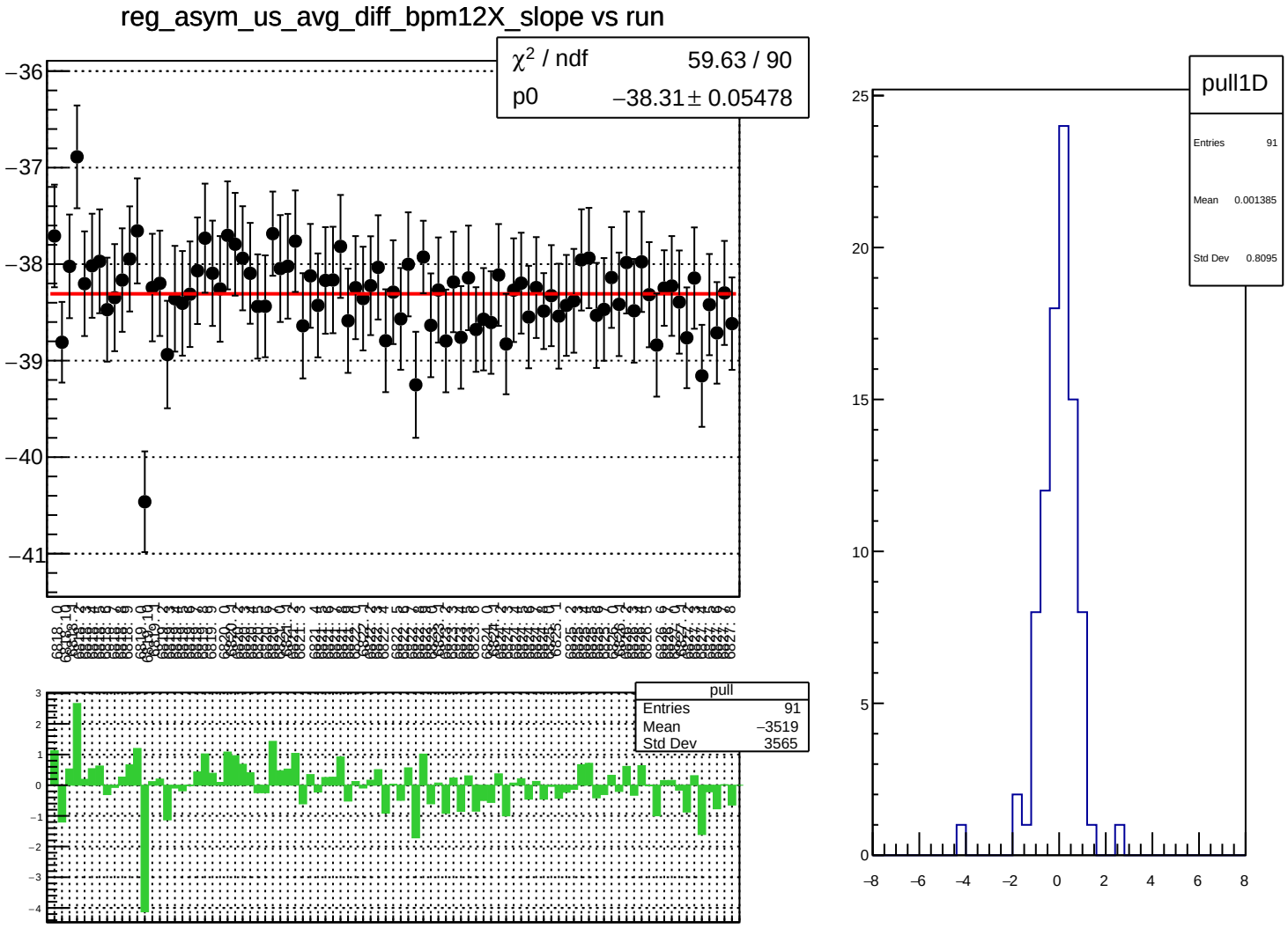

pull1D
Entries 91
Mean −0.00751
Std Dev 0.5236

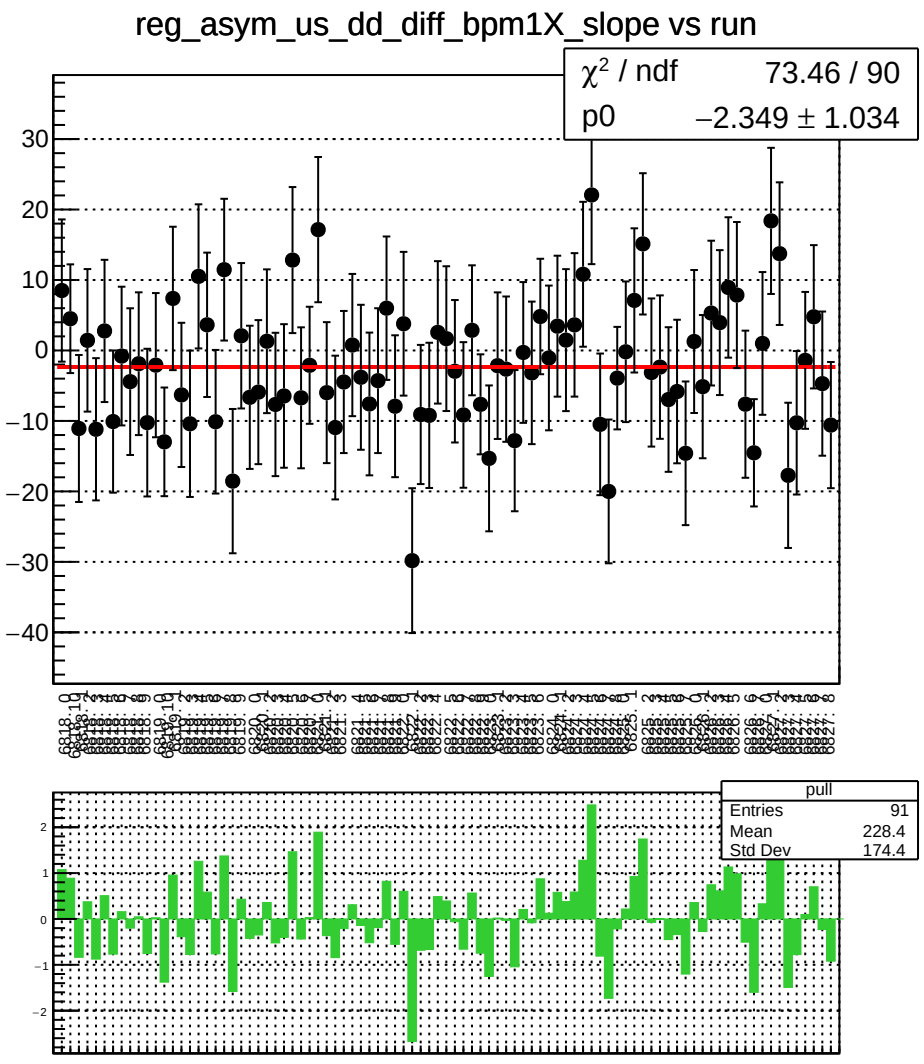

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.9 / 90
p0 74.87 ± 1.309
pull
Entries 91
Mean 445
Std Dev 405.8

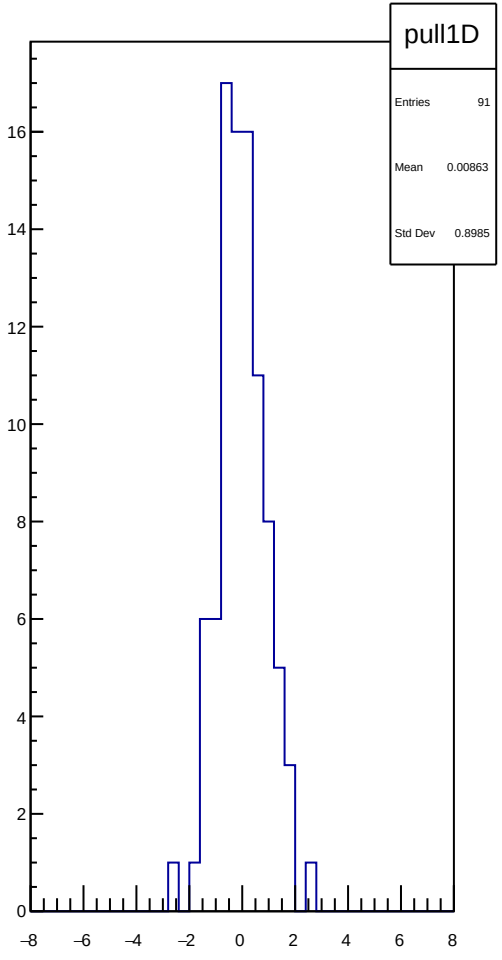

pull1D
Entries 91
Mean 0.005312
Std Dev 0.6103

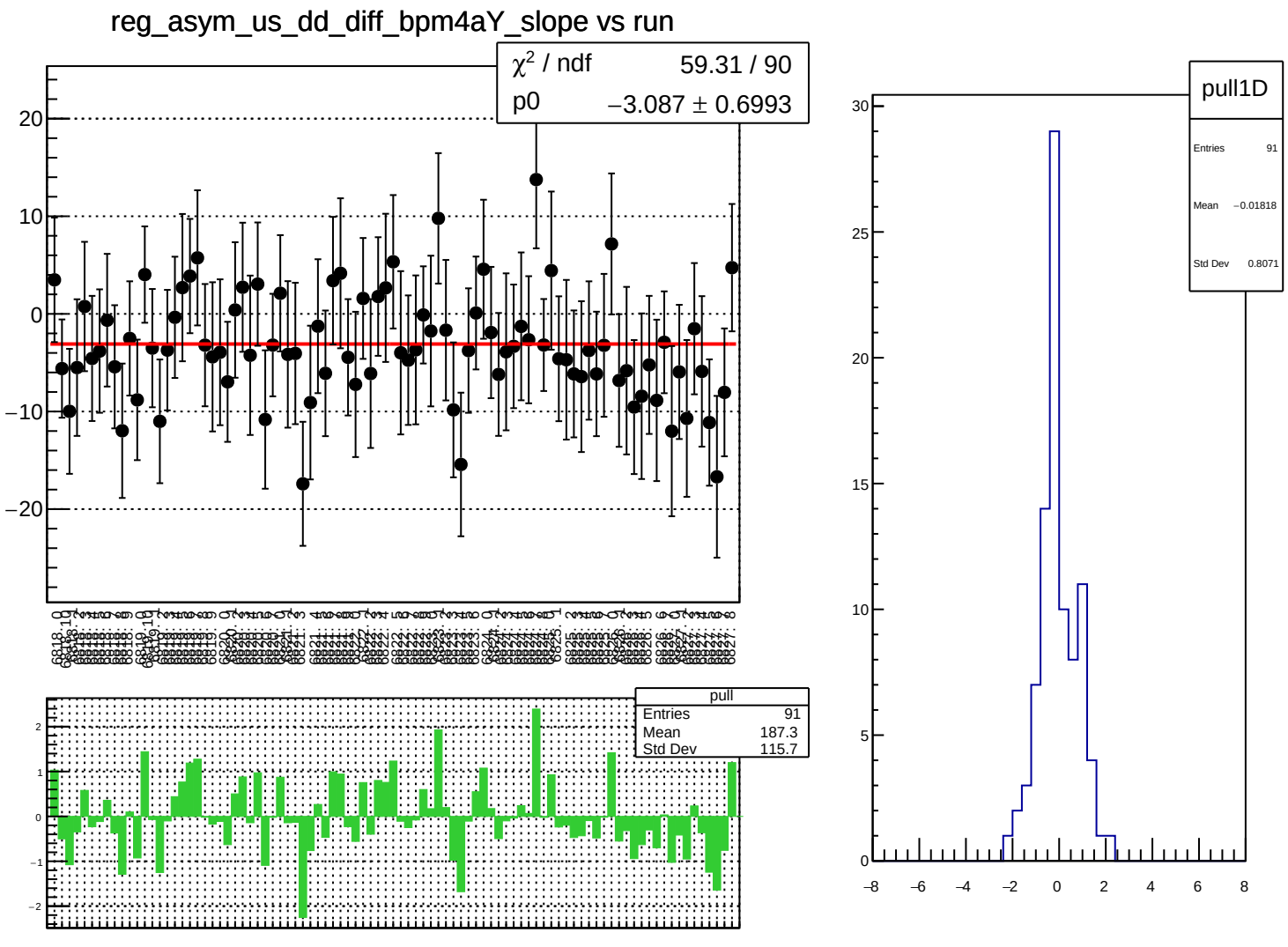

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.26 / 90
p0 7.503 ± 1.095
pull
Entries 91
Mean −800
Std Dev 845.7

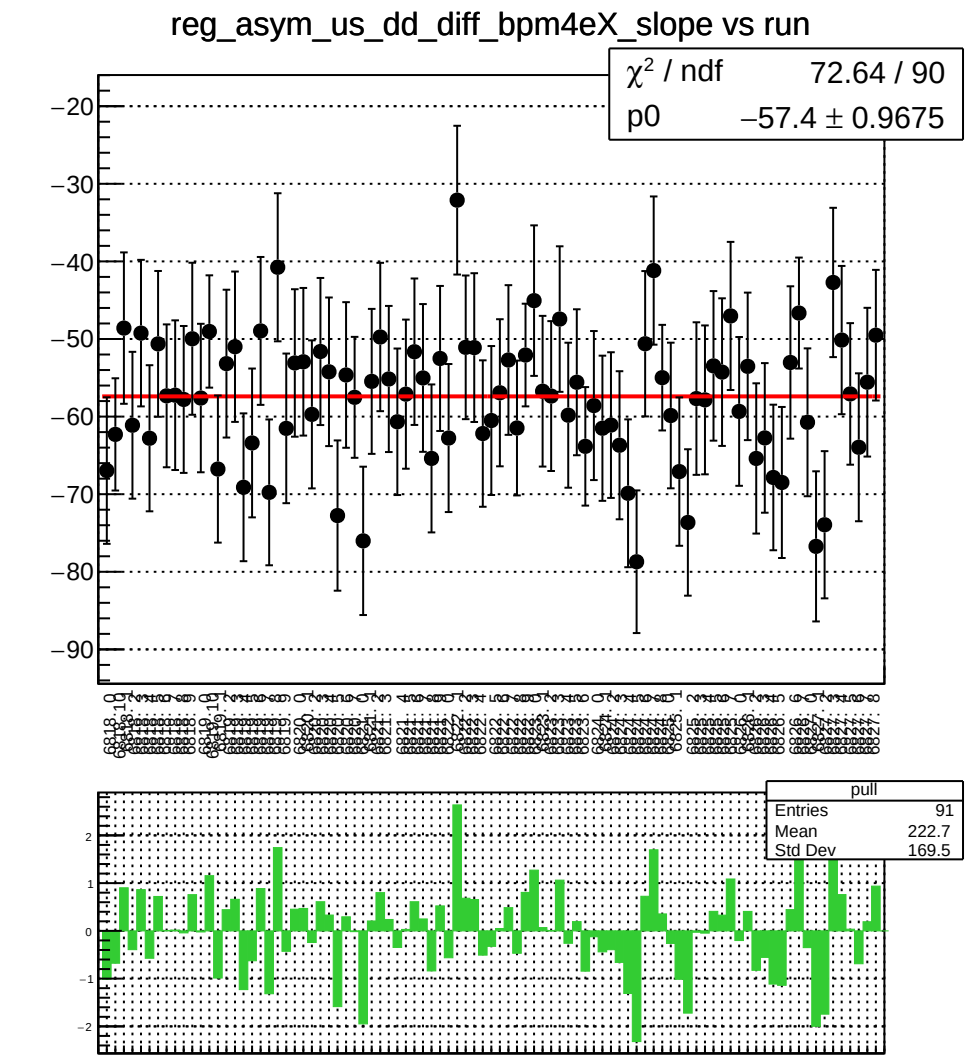

pull1D
Entries 91
Mean 0.006001
Std Dev 0.5372

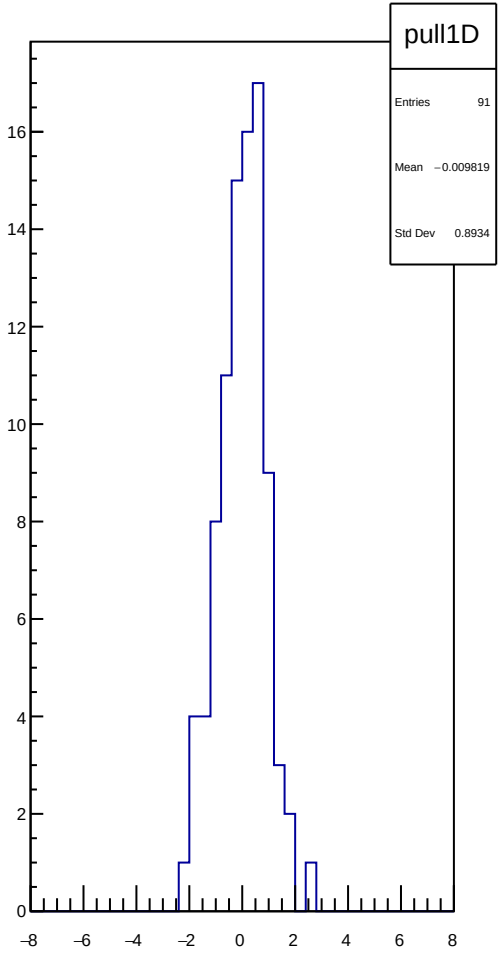

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 59.63 / 90
p0 −38.31 ± 0.05478
−36
−37
−38
−39
−40
−41
pull
Entries 91
Mean −3519
Std Dev 3565
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean 0.001385
Std Dev 0.8095
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

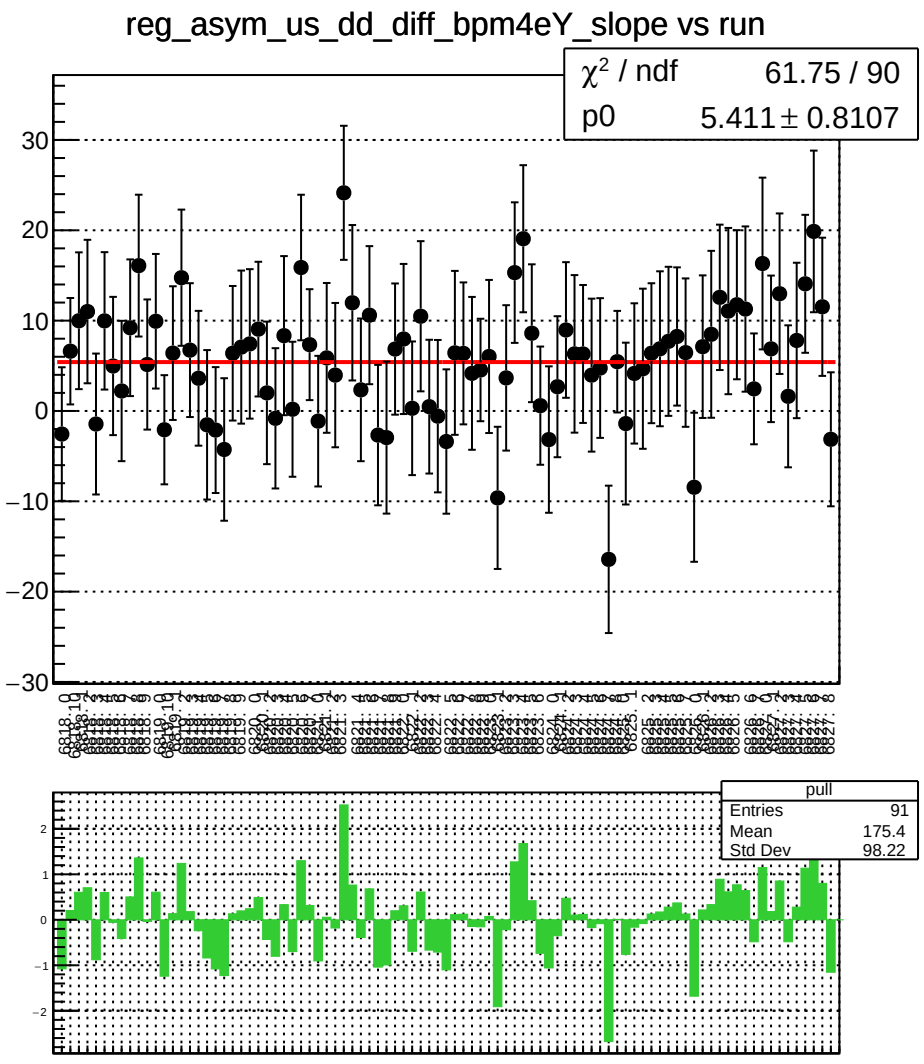

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 73.46 / 90
p0 −2.349 ± 1.034
pull
Entries 91
Mean 228.4
Std Dev 174.4

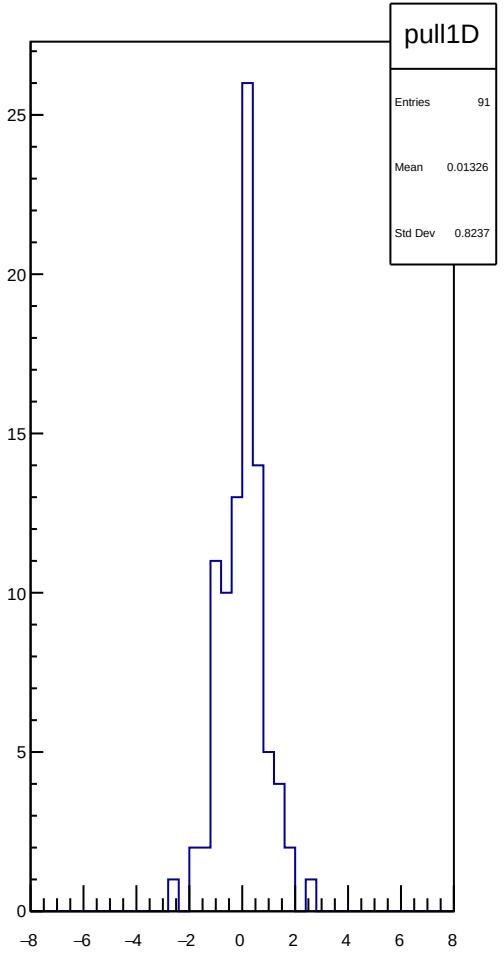

pull1D
Entries 91
Mean 0.00863
Std Dev 0.8985

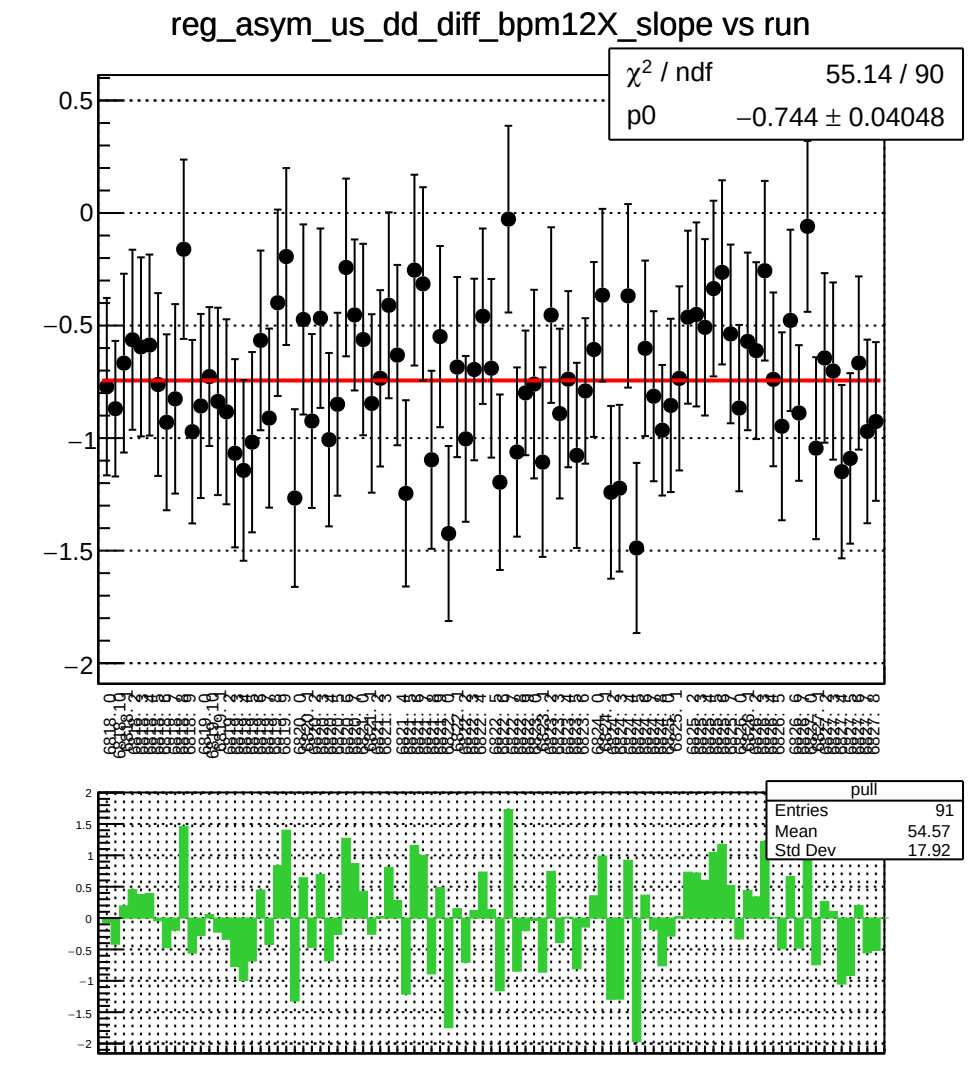

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.31 / 90
p0 −3.087 ± 0.6993
pull
Entries 91
Mean 187.3
Std Dev 115.7
pull1D
Entries 91
Mean −0.01818
Std Dev 0.8071

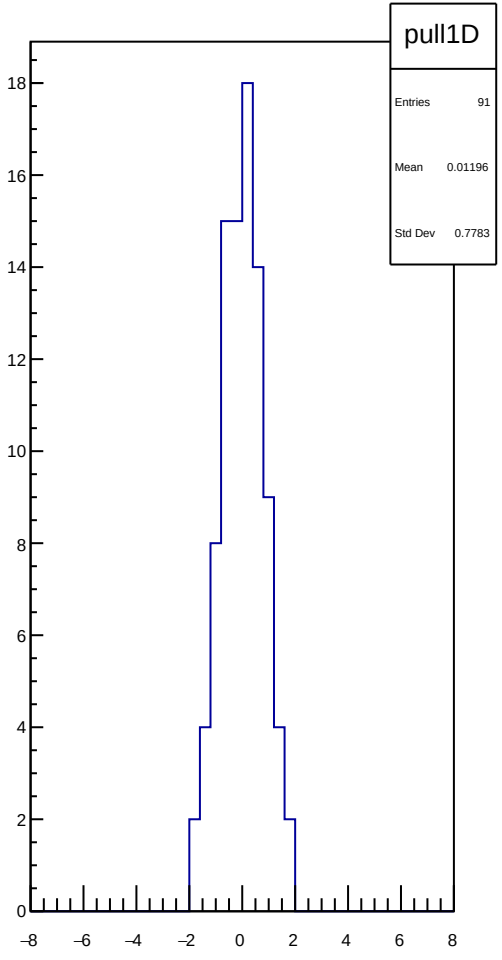

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.64 / 90
p0 −57.4 ± 0.9675
pull
Entries 91
Mean 222.7
Std Dev 169.5

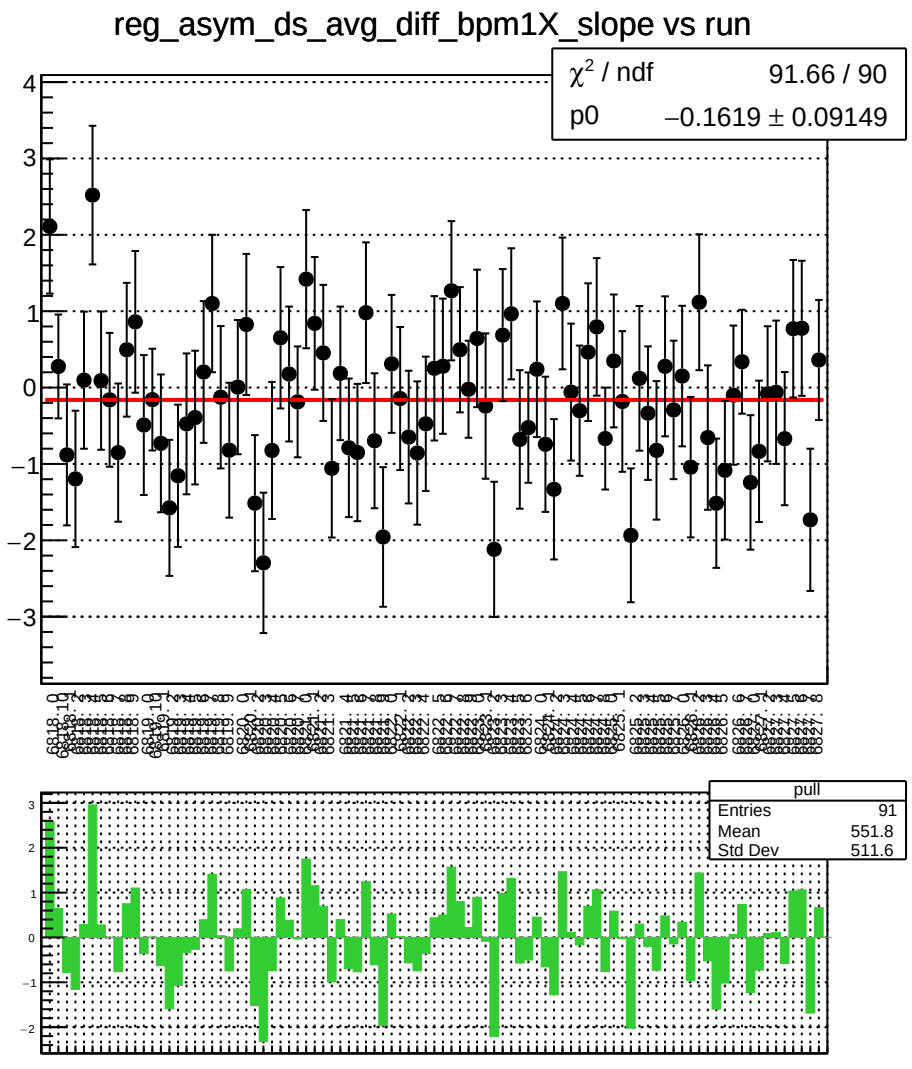

pull1D
Entries 91
Mean −0.009819
Std Dev 0.8934

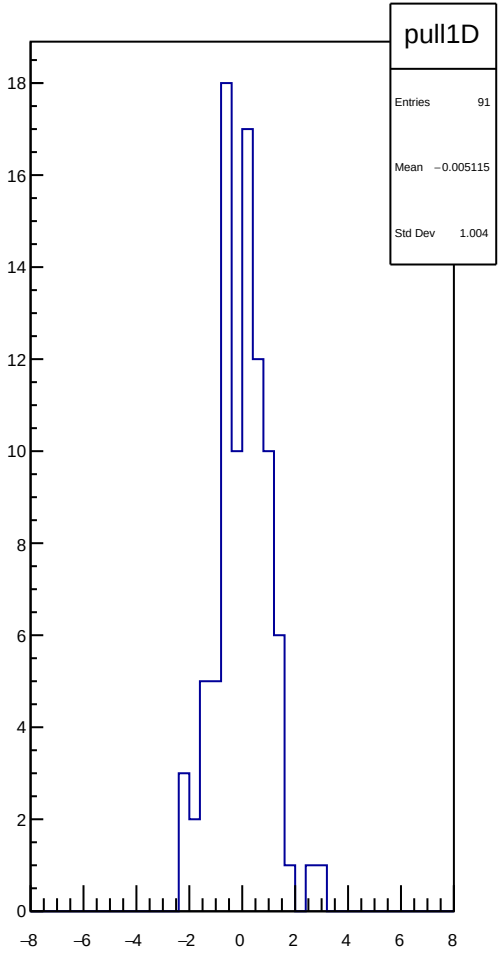

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.75 / 90
p0 5.411 ± 0.8107
pull
Entries 91
Mean 175.4
Std Dev 98.22

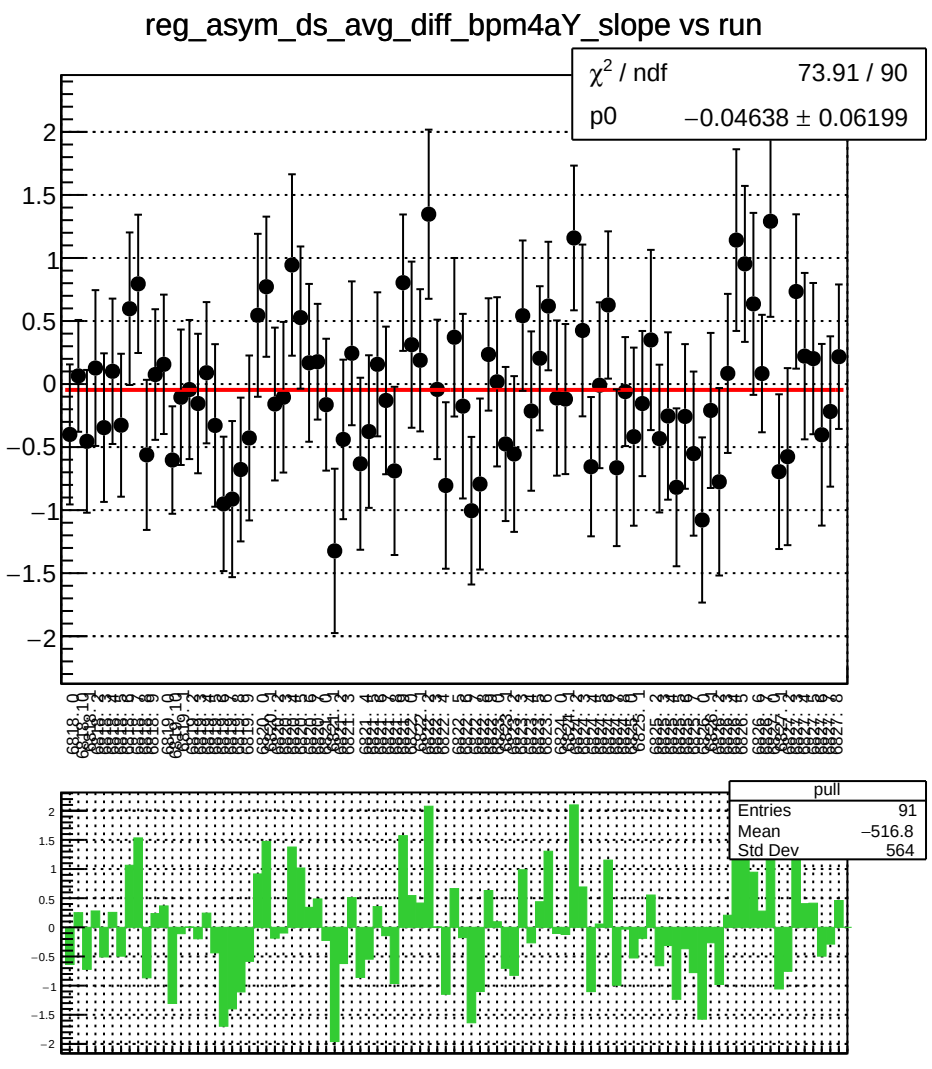

pull1D
Entries 91
Mean 0.01326
Std Dev 0.8237

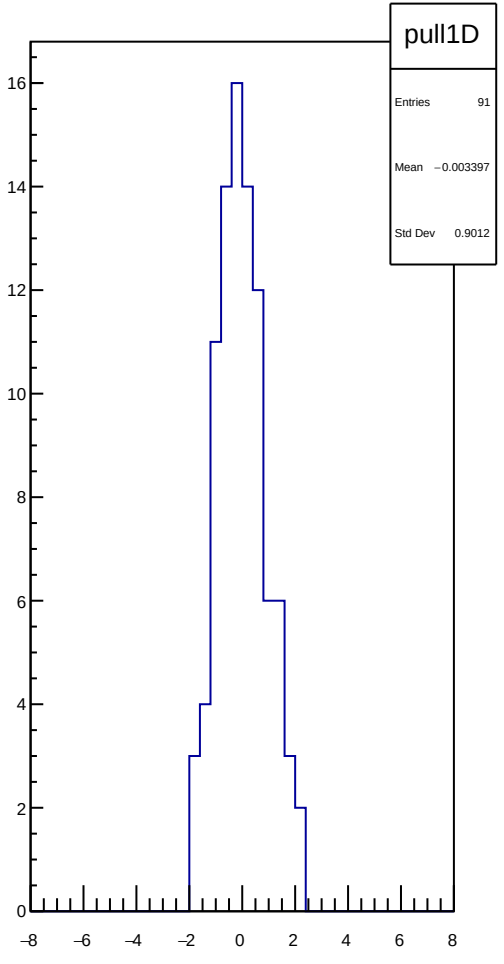

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 55.14 / 90
p0 −0.744 ± 0.04048
pull
Entries 91
Mean 54.57
Std Dev 17.92

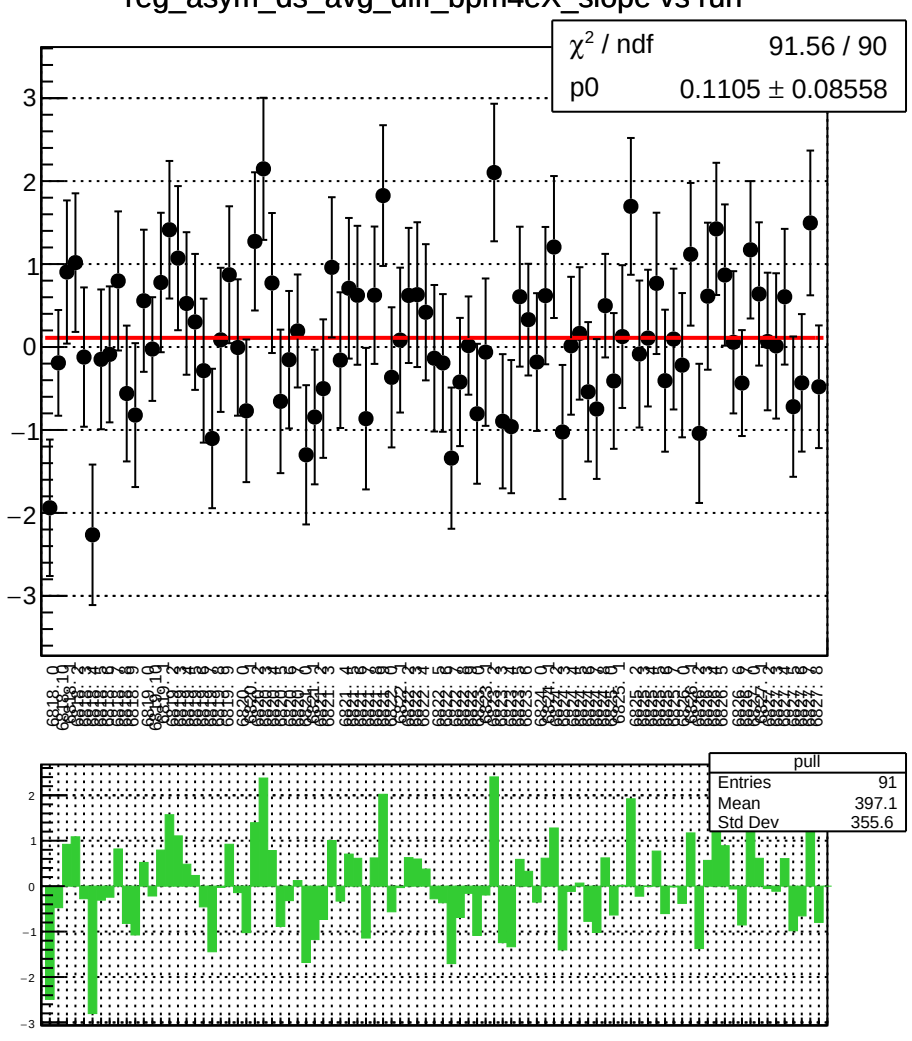

pull1D
Entries 91
Mean 0.01196
Std Dev 0.7783

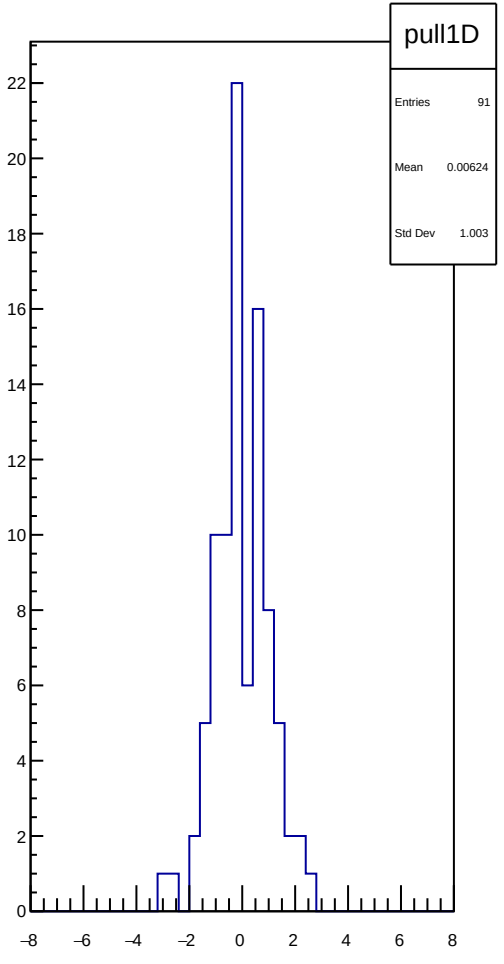

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ^2 / ndf 91.66 / 90
p0 −0.1619 ± 0.09149
pull
Entries 91
Mean 551.8
Std Dev 511.6

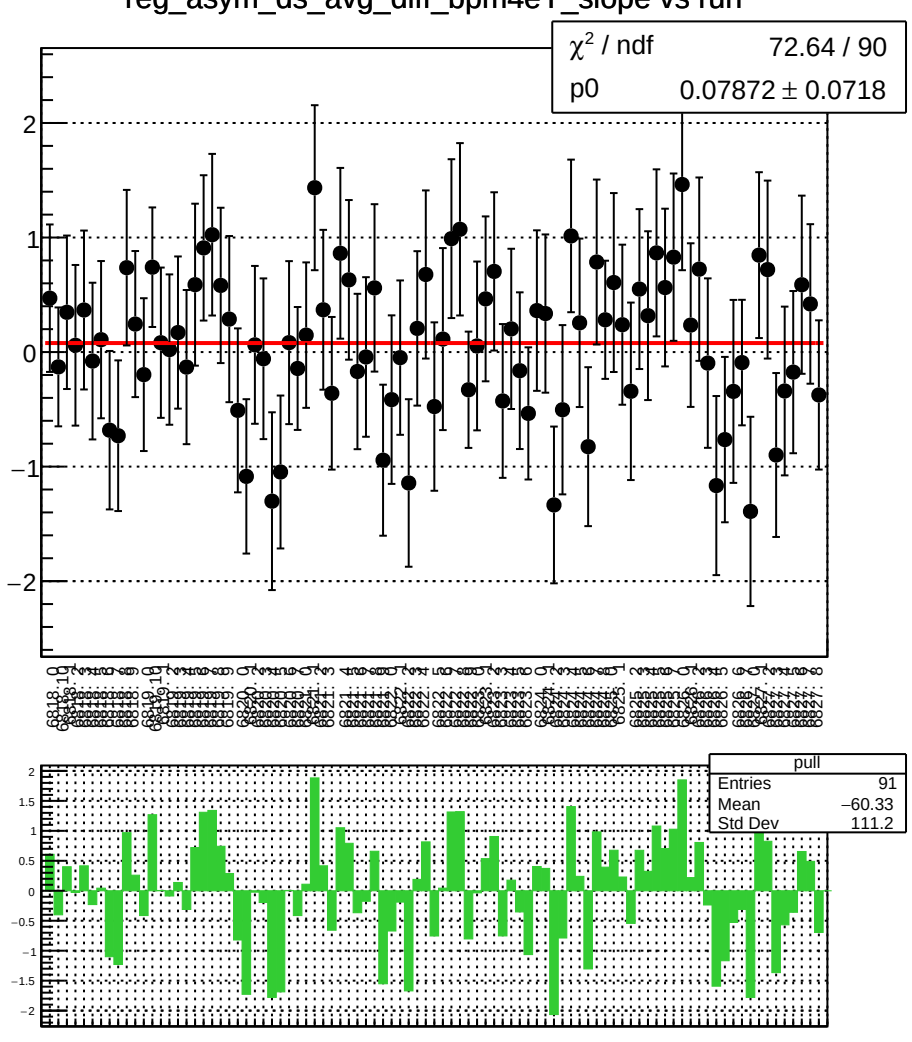

pull1D
Entries 91
Mean −0.005115
Std Dev 1.004

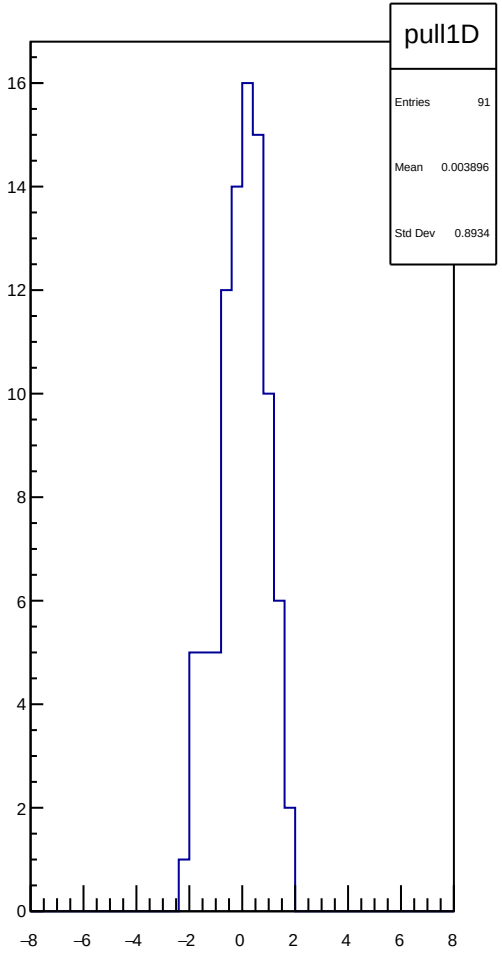

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.91 / 90
p0 −0.04638 ± 0.06199
pull
Entries 91
Mean −516.8
Std Dev 564

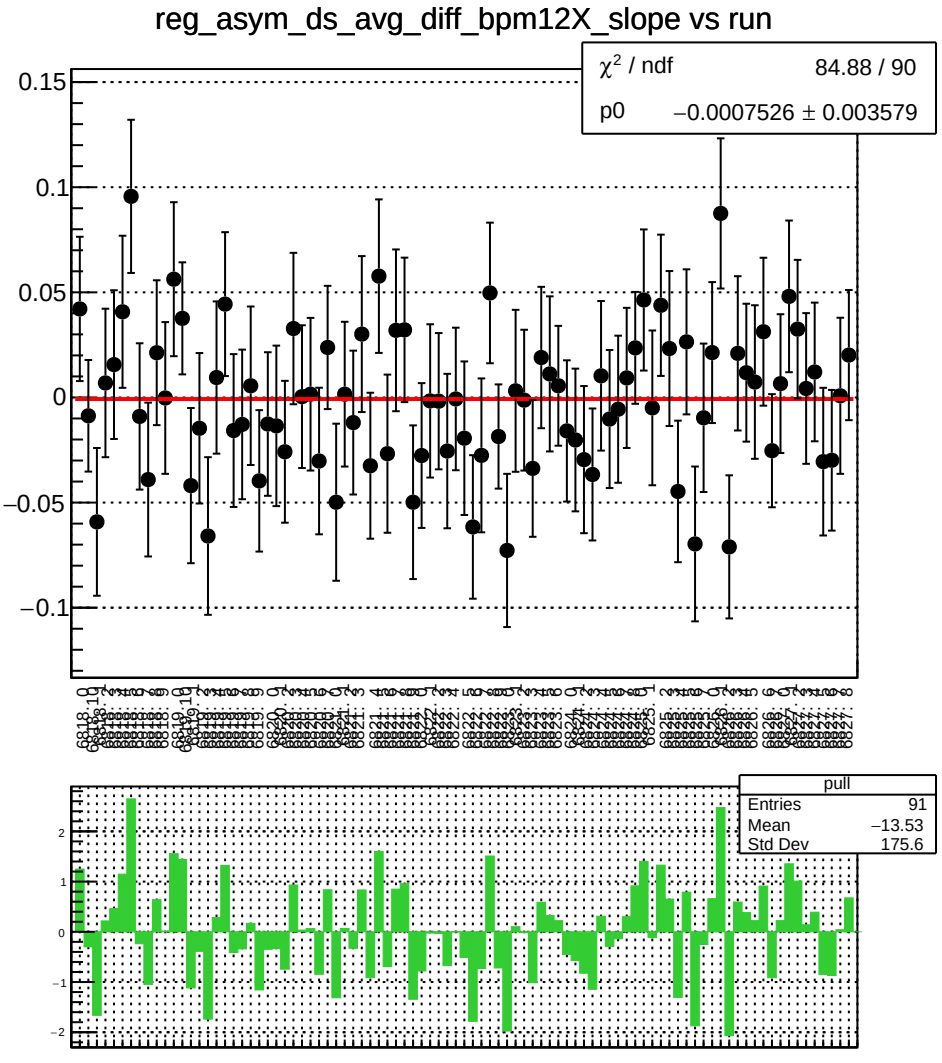

pull1D
Entries 91
Mean −0.003397
Std Dev 0.9012

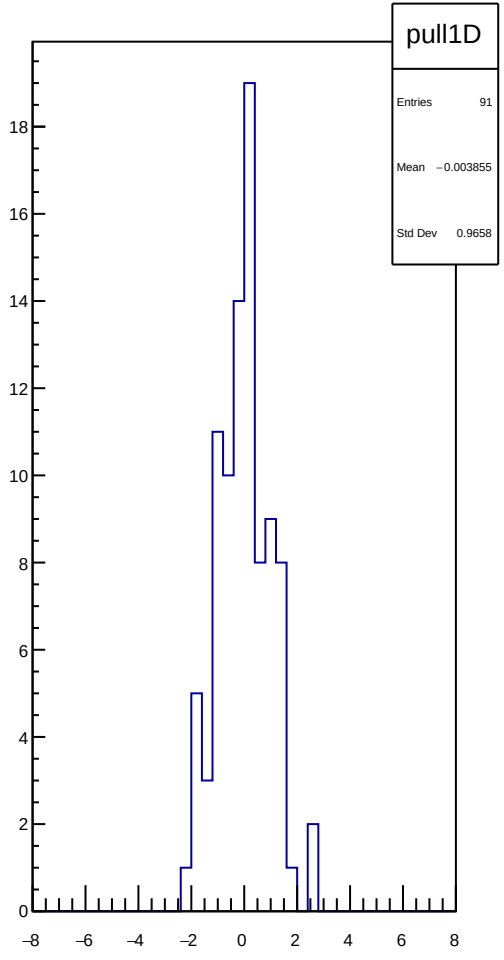

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.56 / 90
p0 0.1105 ± 0.08558
pull
Entries 91
Mean 397.1
Std Dev 355.6

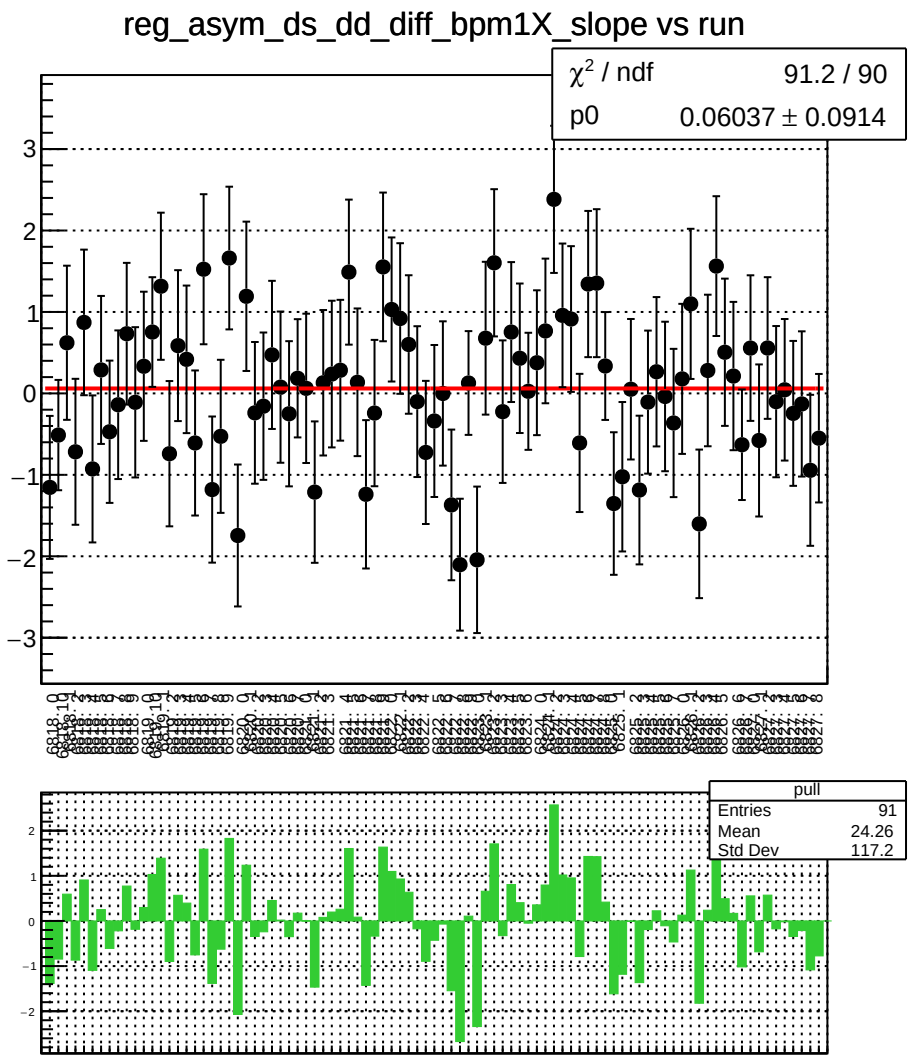

pull1D
Entries 91
Mean 0.00624
Std Dev 1.003

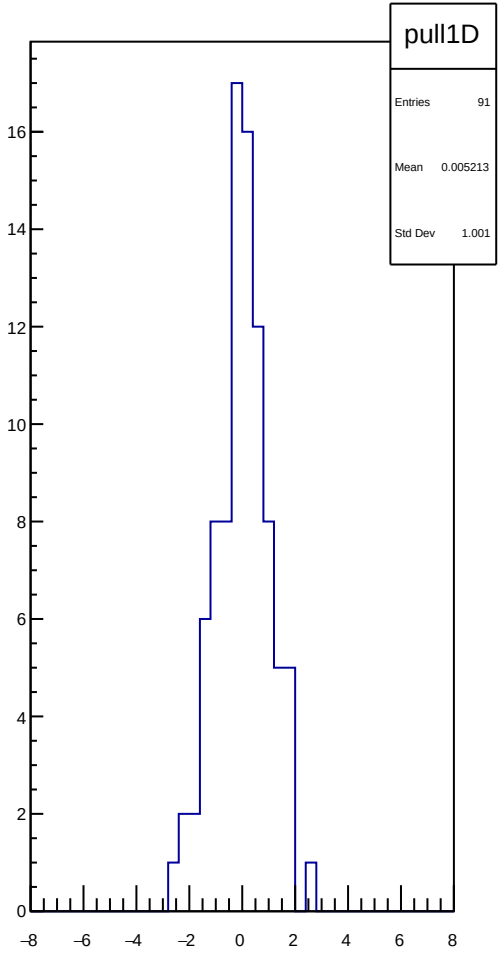

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.64 / 90
p0 0.07872 ± 0.0718
pull
Entries 91
Mean −60.33
Std Dev 111.2

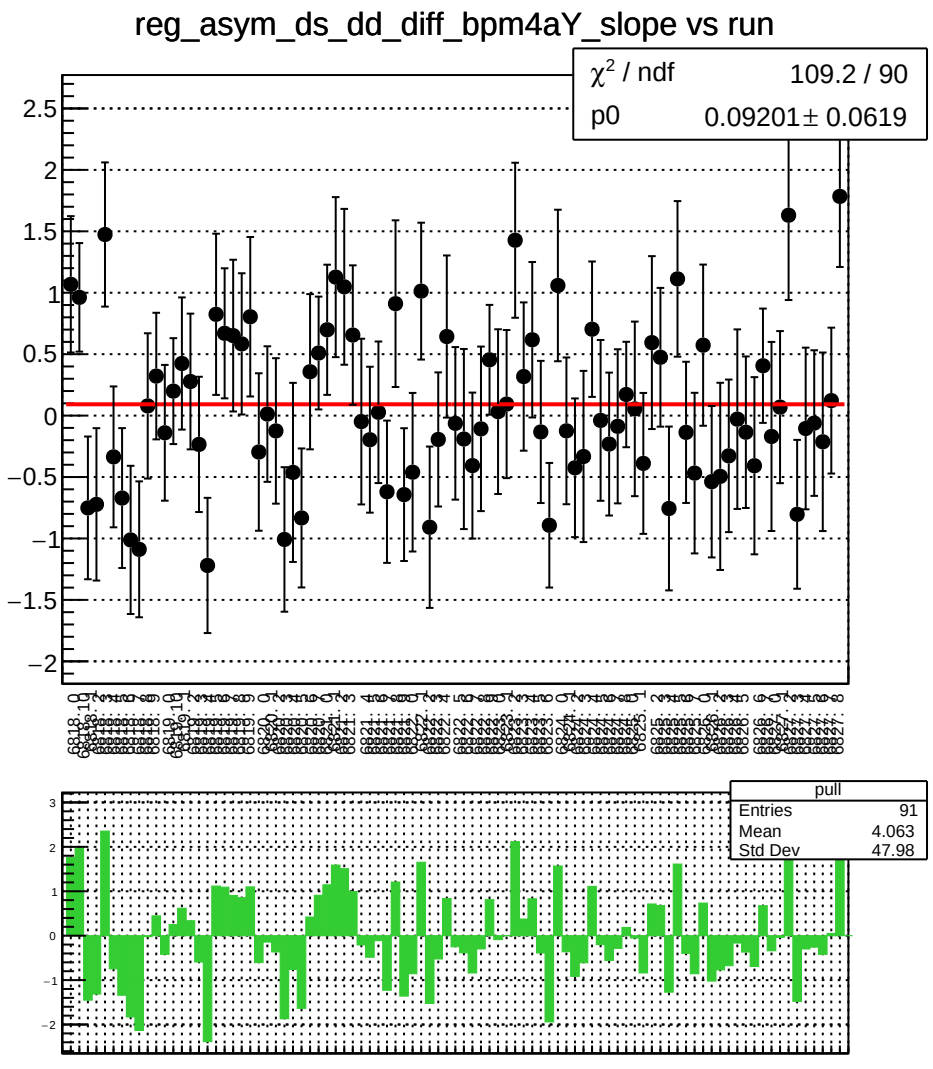

pull1D
Entries 91
Mean 0.003896
Std Dev 0.8934

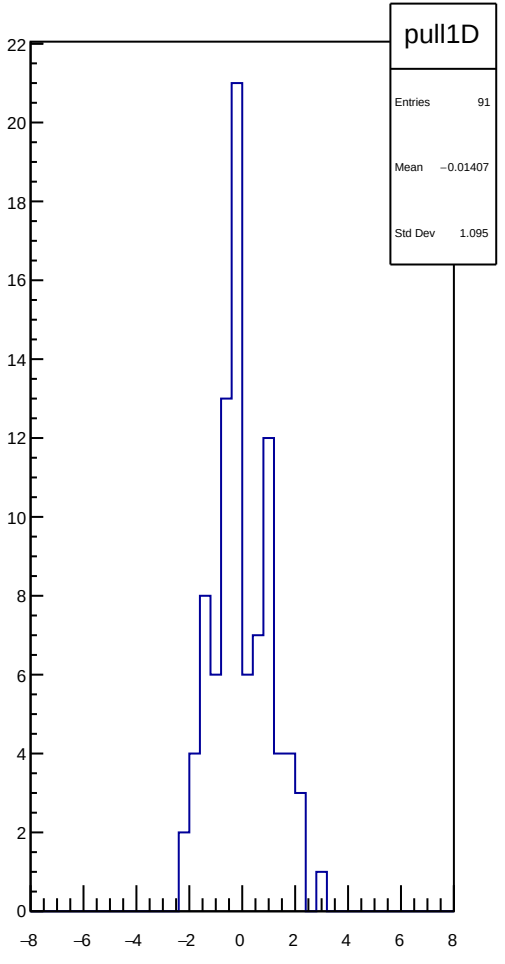

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 84.88 / 90
p0 −0.0007526 ± 0.003579
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −13.53
Std Dev 175.6
2
1
0
−1
−2

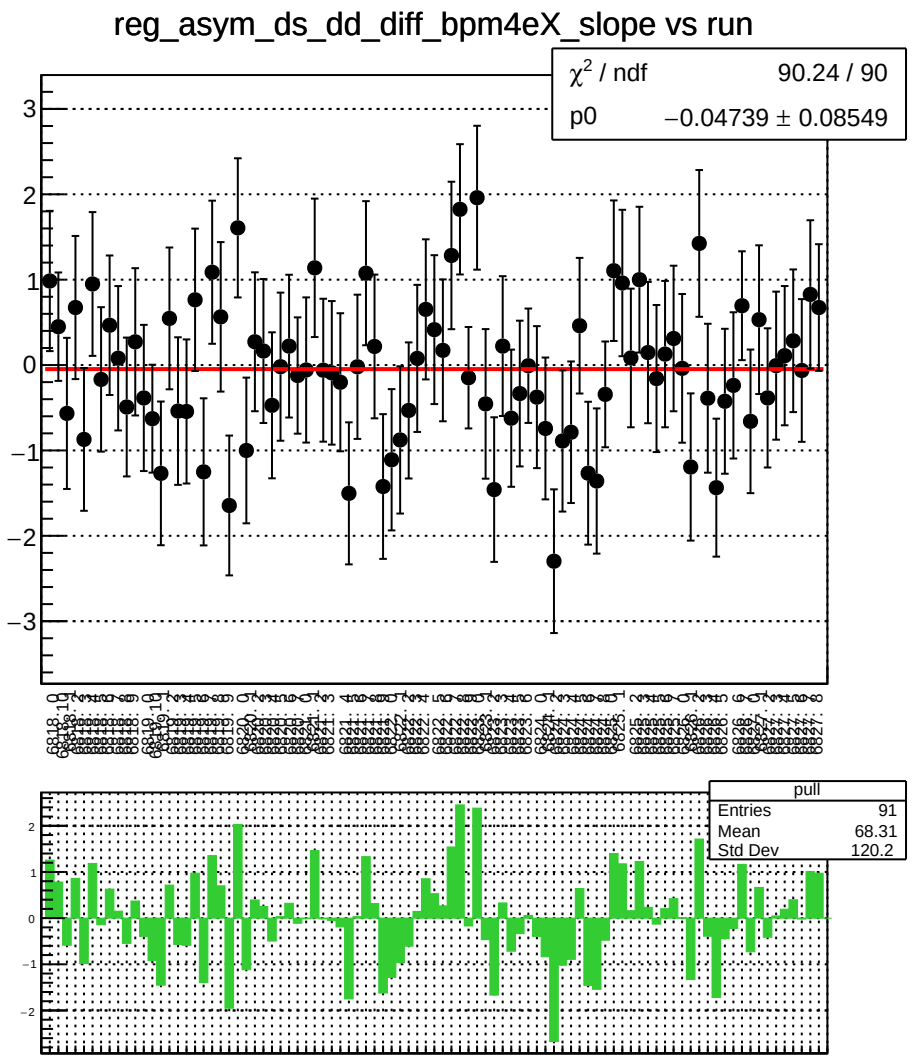

pull1D
Entries 91
Mean −0.003855
Std Dev 0.9658
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

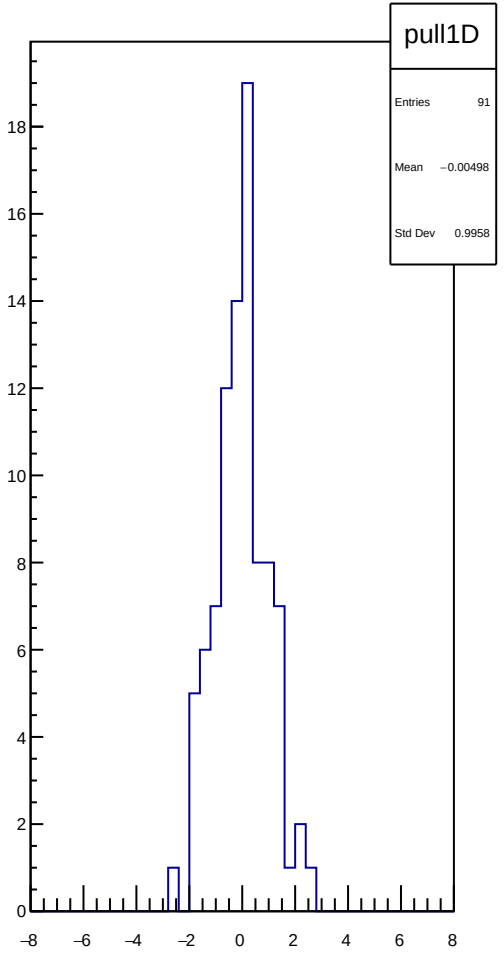

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 91.2 / 90
p0 0.06037 ± 0.0914
pull
Entries 91
Mean 24.26
Std Dev 117.2

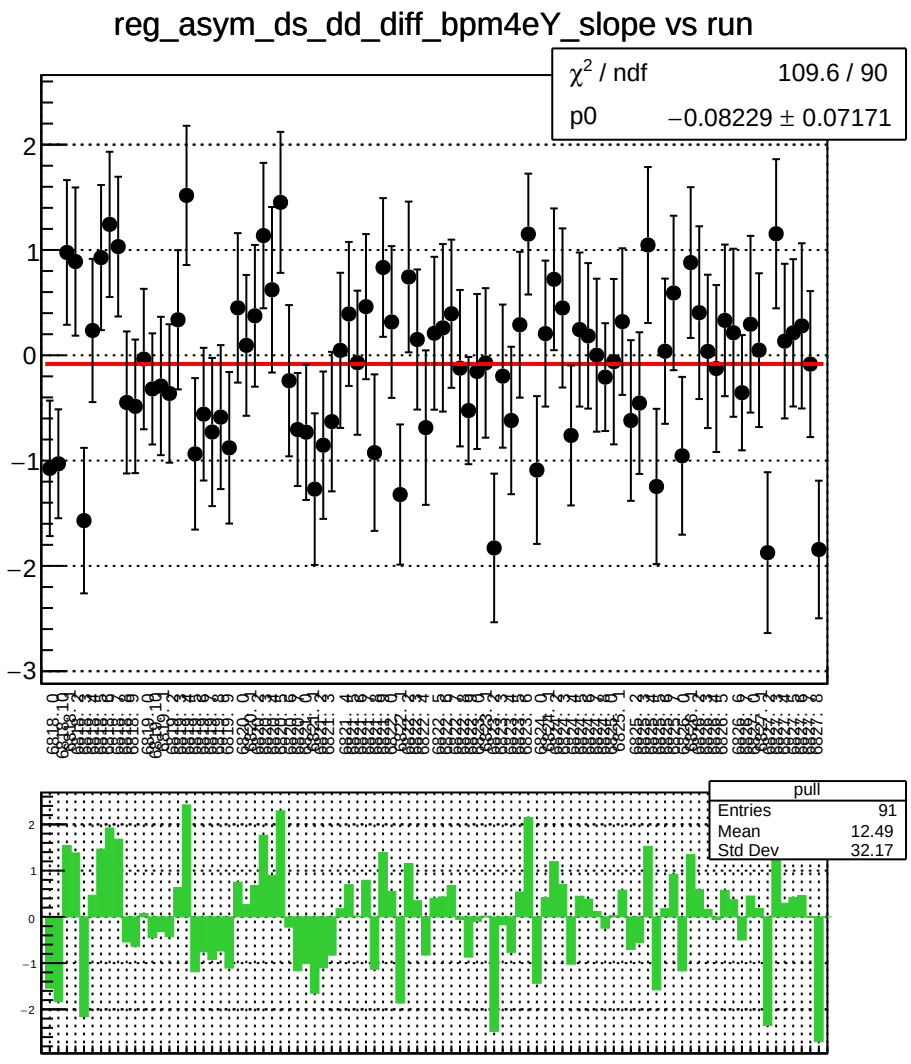

pull1D
Entries 91
Mean 0.005213
Std Dev 1.001

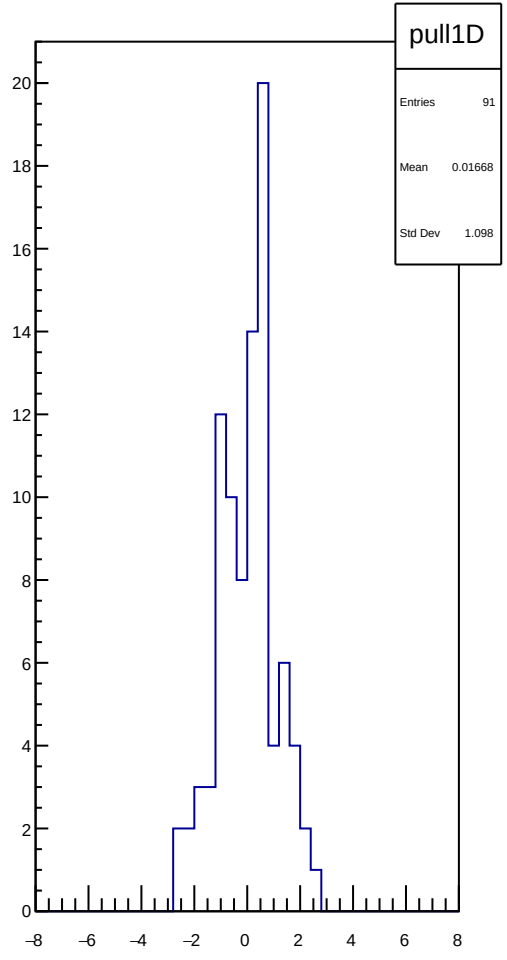

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 109.2 / 90
p0 0.09201 ± 0.0619
pull
Entries 91
Mean 4.063
Std Dev 47.98

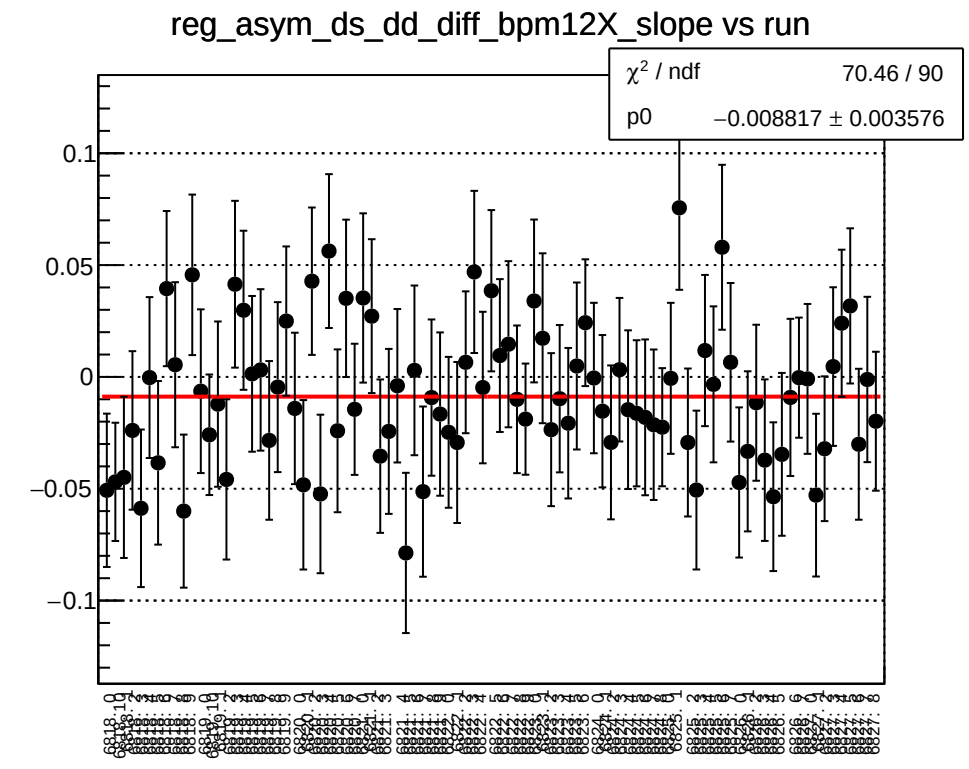

pull1D
Entries 91
Mean −0.01407
Std Dev 1.095

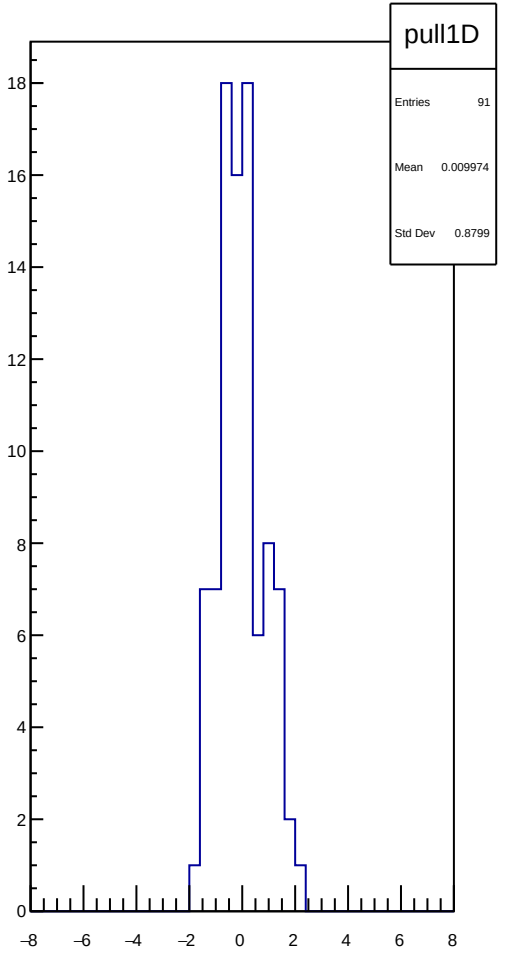

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.24 / 90
p0 −0.04739 ± 0.08549
pull
Entries 91
Mean 68.31
Std Dev 120.2

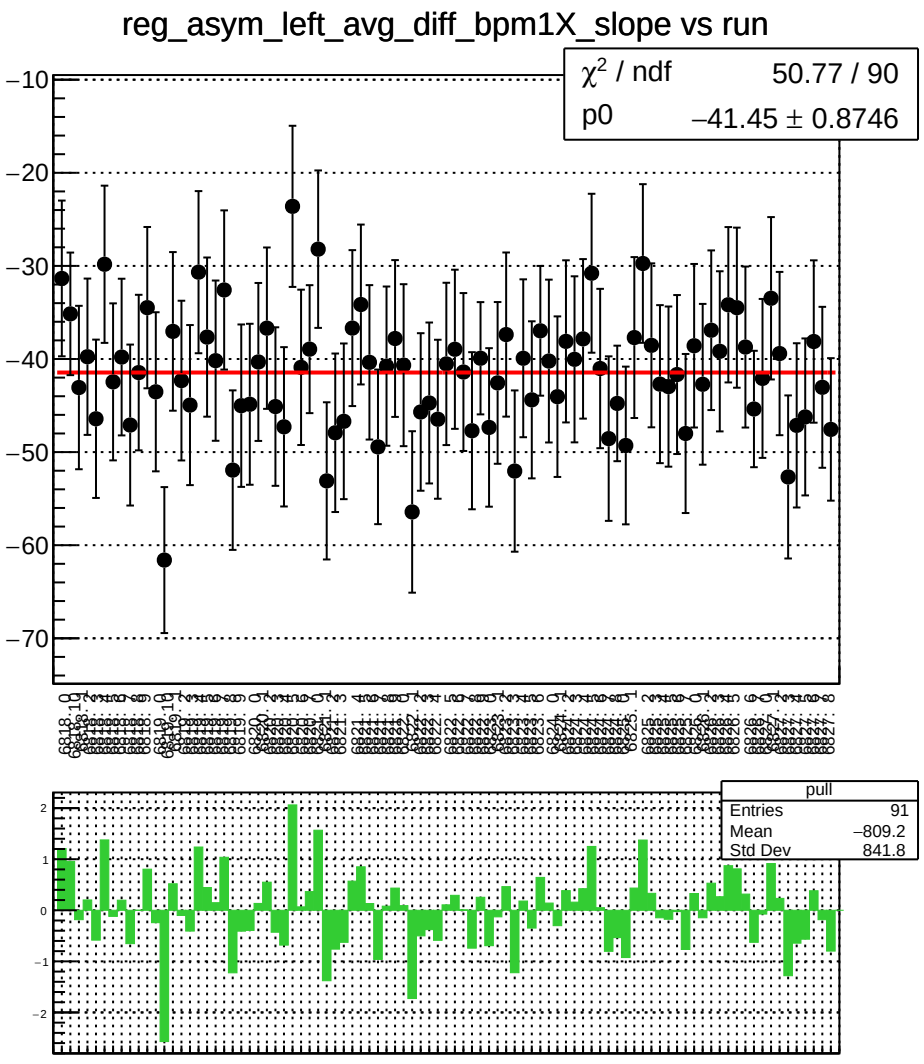

pull1D
Entries 91
Mean −0.00498
Std Dev 0.9958

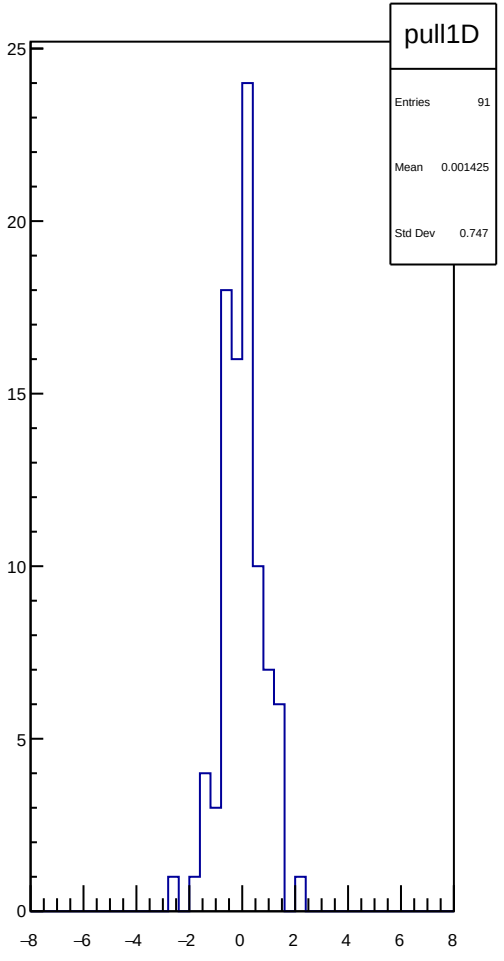

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 109.6 / 90
p0 −0.08229 ± 0.07171
pull
Entries 91
Mean 12.49
Std Dev 32.17

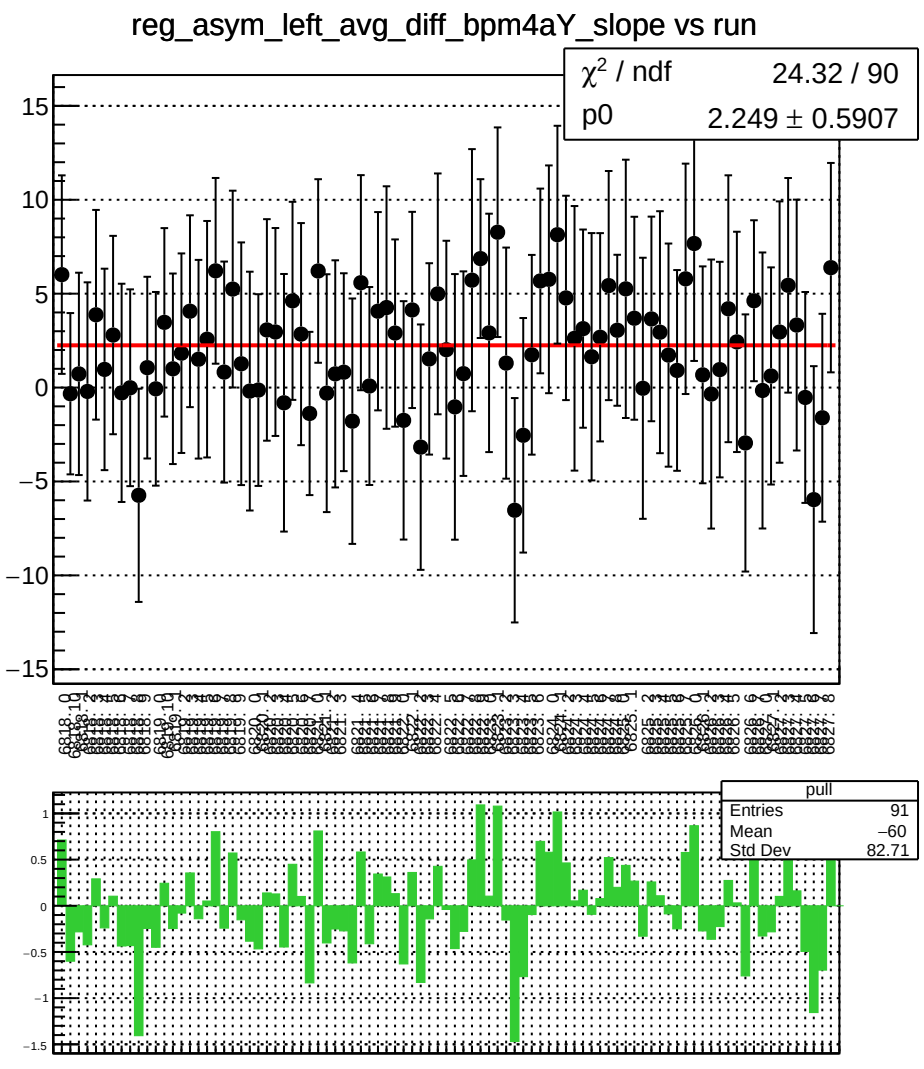

pull1D
Entries 91
Mean 0.01668
Std Dev 1.098

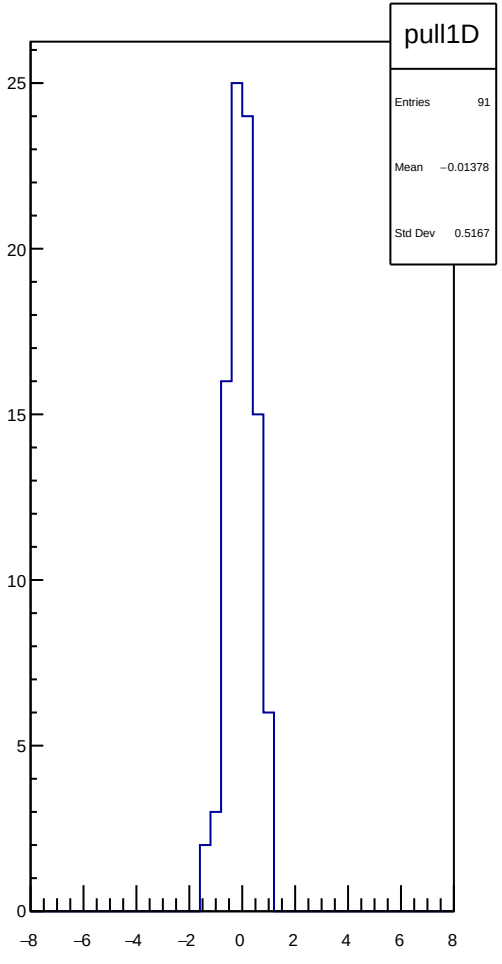

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 70.46 / 90
p0 −0.008817 ± 0.003576
pull
Entries 91
Mean 128.1
Std Dev 129.3

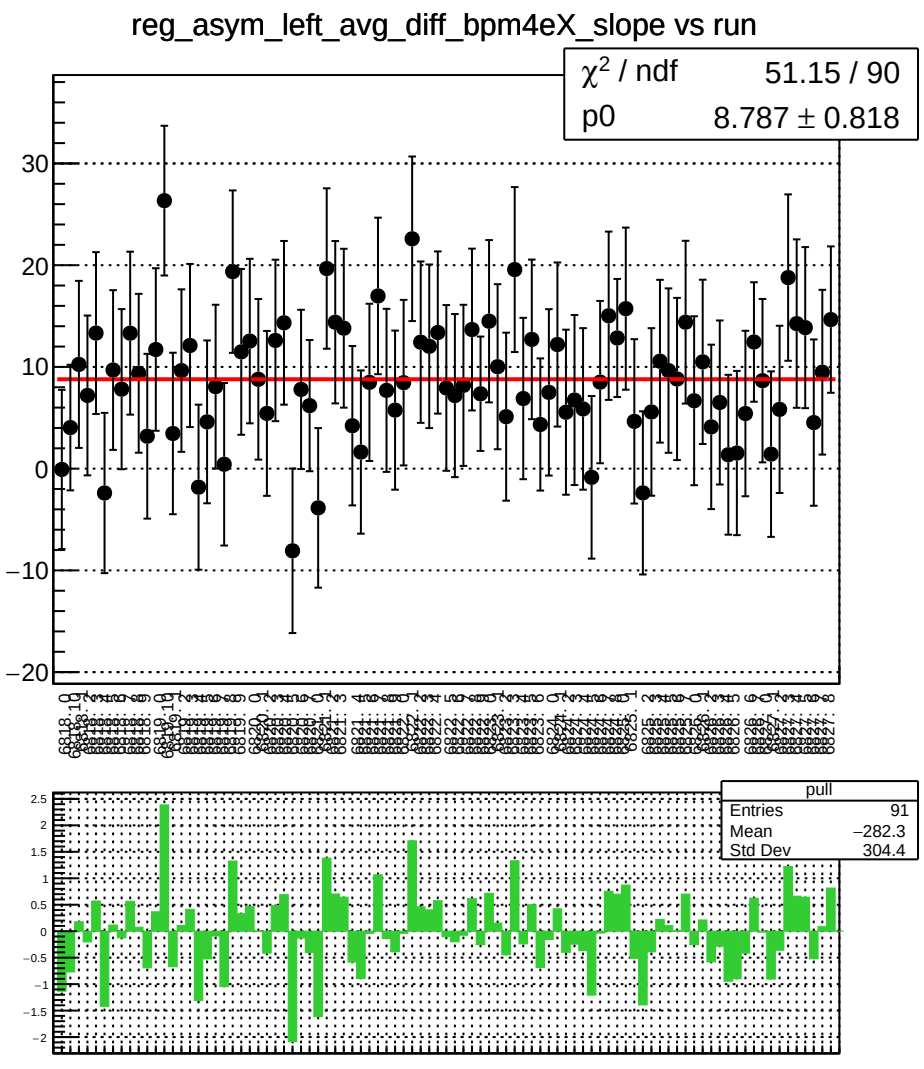

pull1D
Entries 91
Mean 0.009974
Std Dev 0.8799

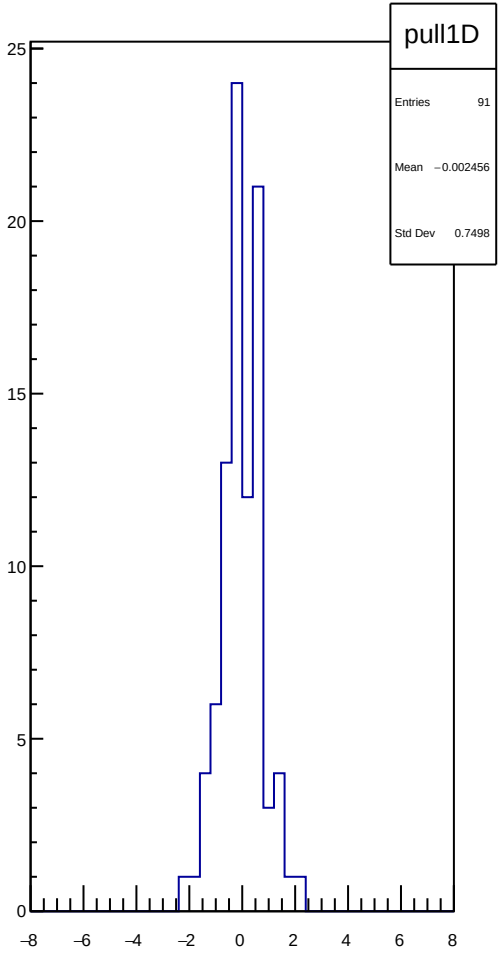

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 50.77 / 90
p0 −41.45 ± 0.8746
pull
Entries 91
Mean −809.2
Std Dev 841.8

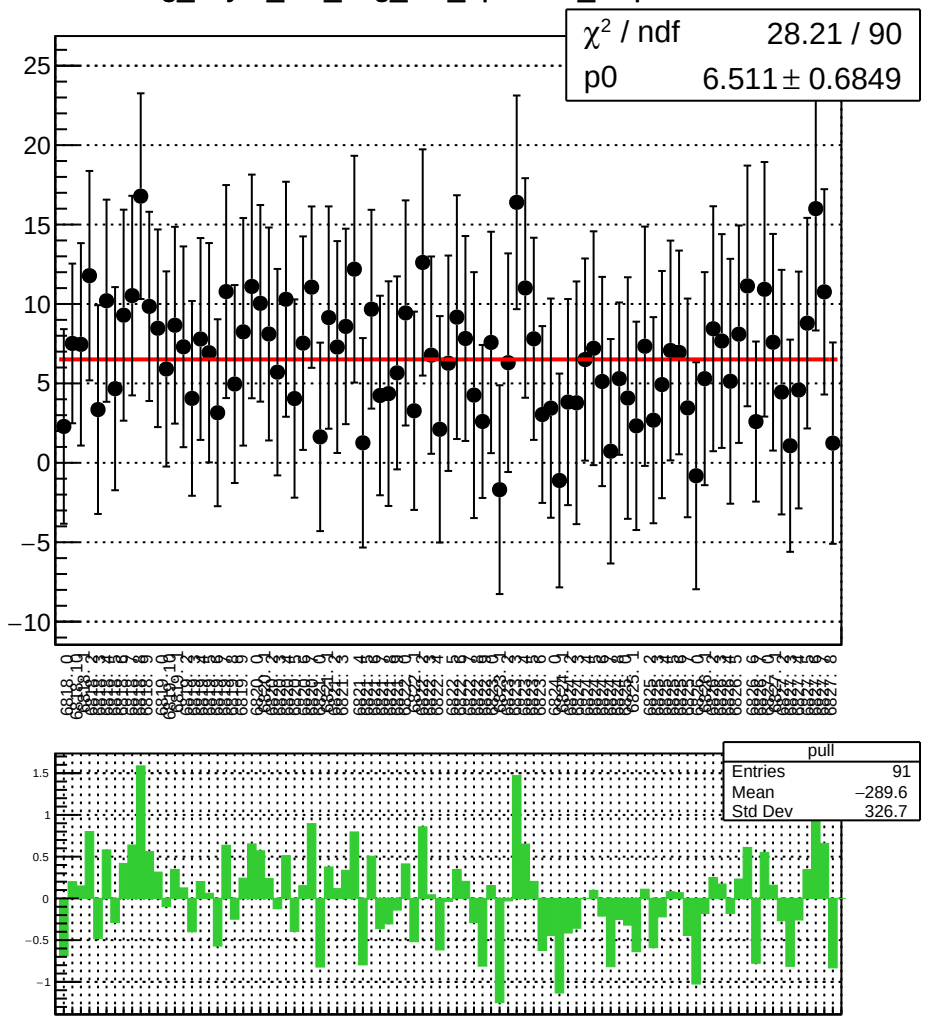

pull1D
Entries 91
Mean 0.001425
Std Dev 0.747

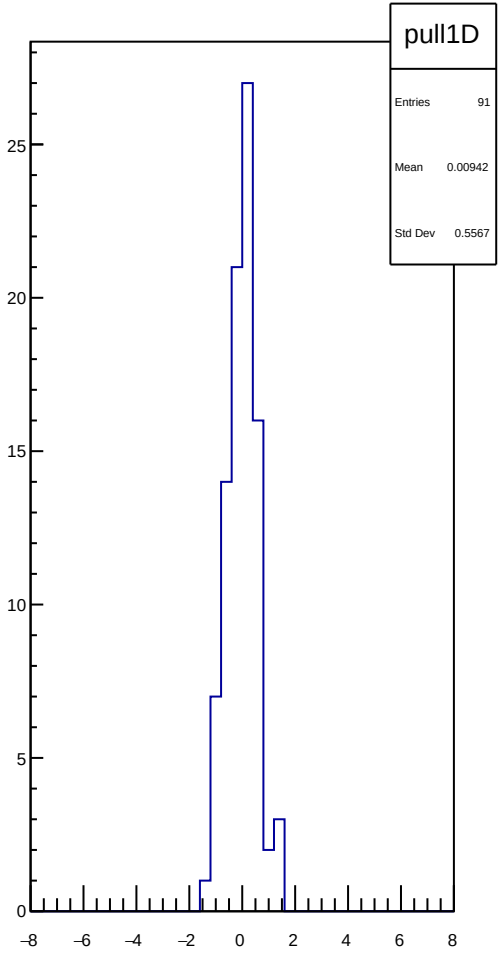

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.32 / 90
p0 2.249 ± 0.5907
pull
Entries 91
Mean −60
Std Dev 82.71

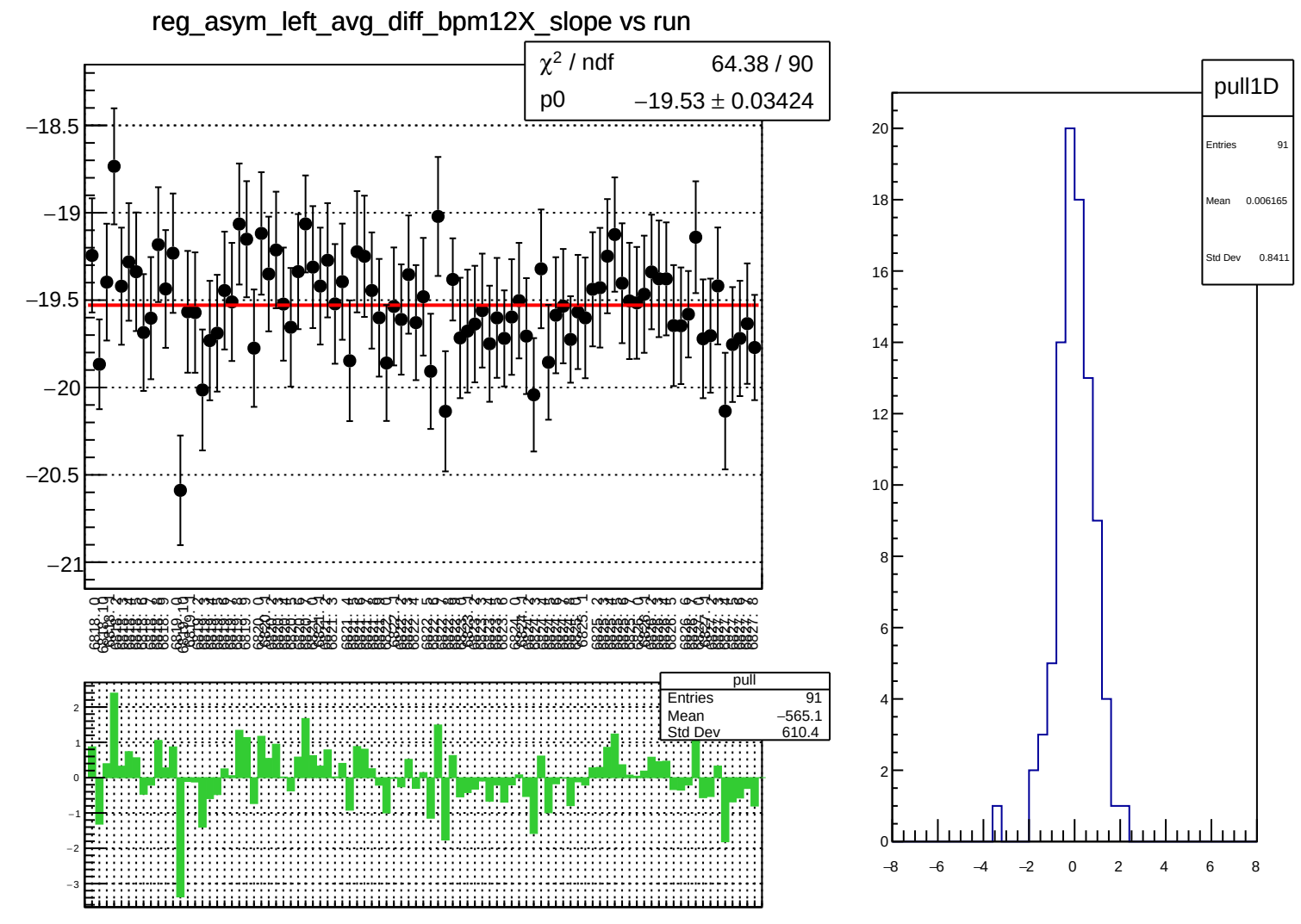

pull1D
Entries 91
Mean −0.01378
Std Dev 0.5167

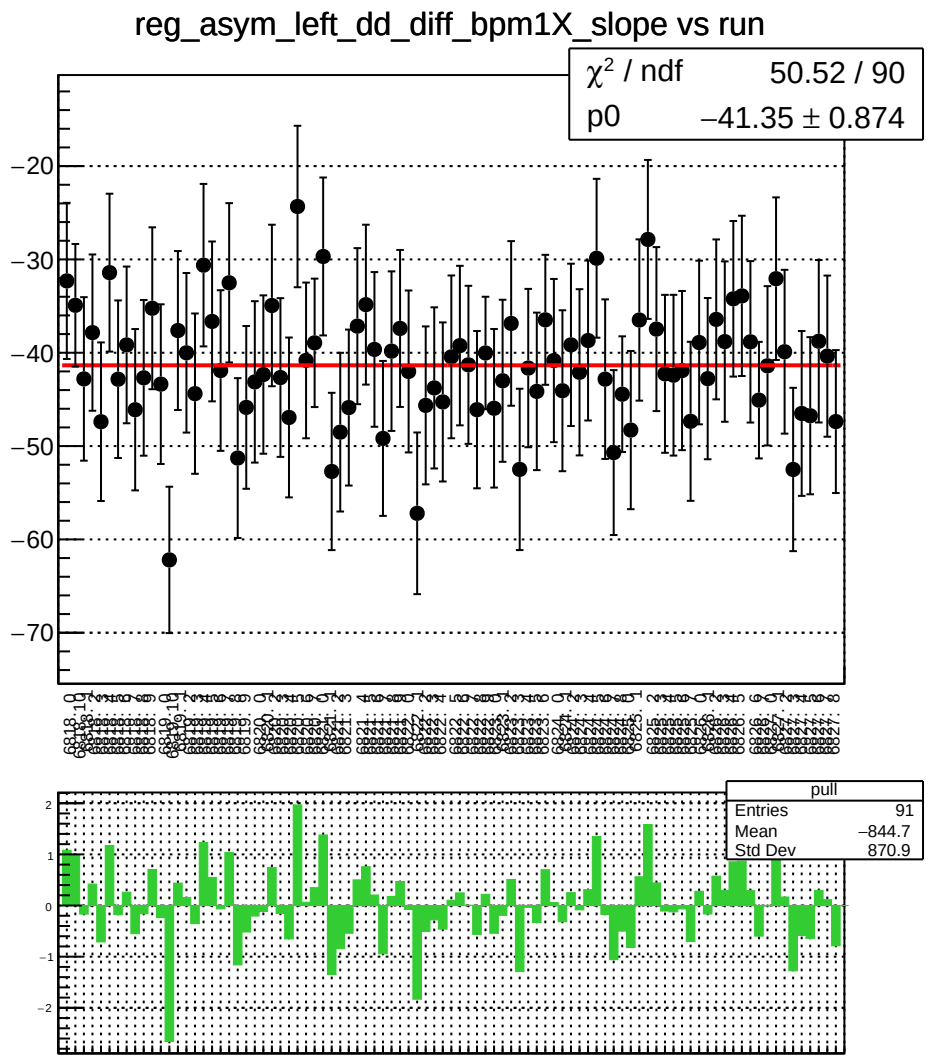

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 51.15 / 90
p0 8.787 ± 0.818
pull
Entries 91
Mean −282.3
Std Dev 304.4

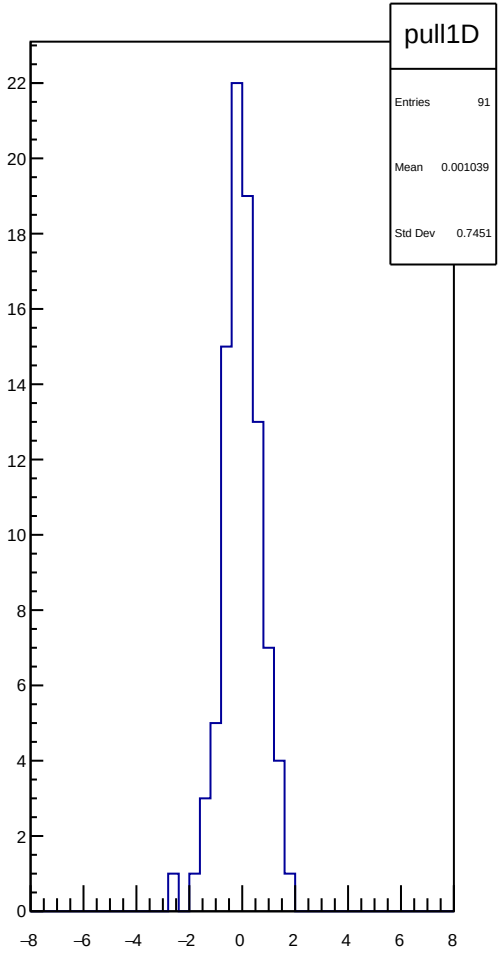

pull1D
Entries 91
Mean −0.002456
Std Dev 0.7498

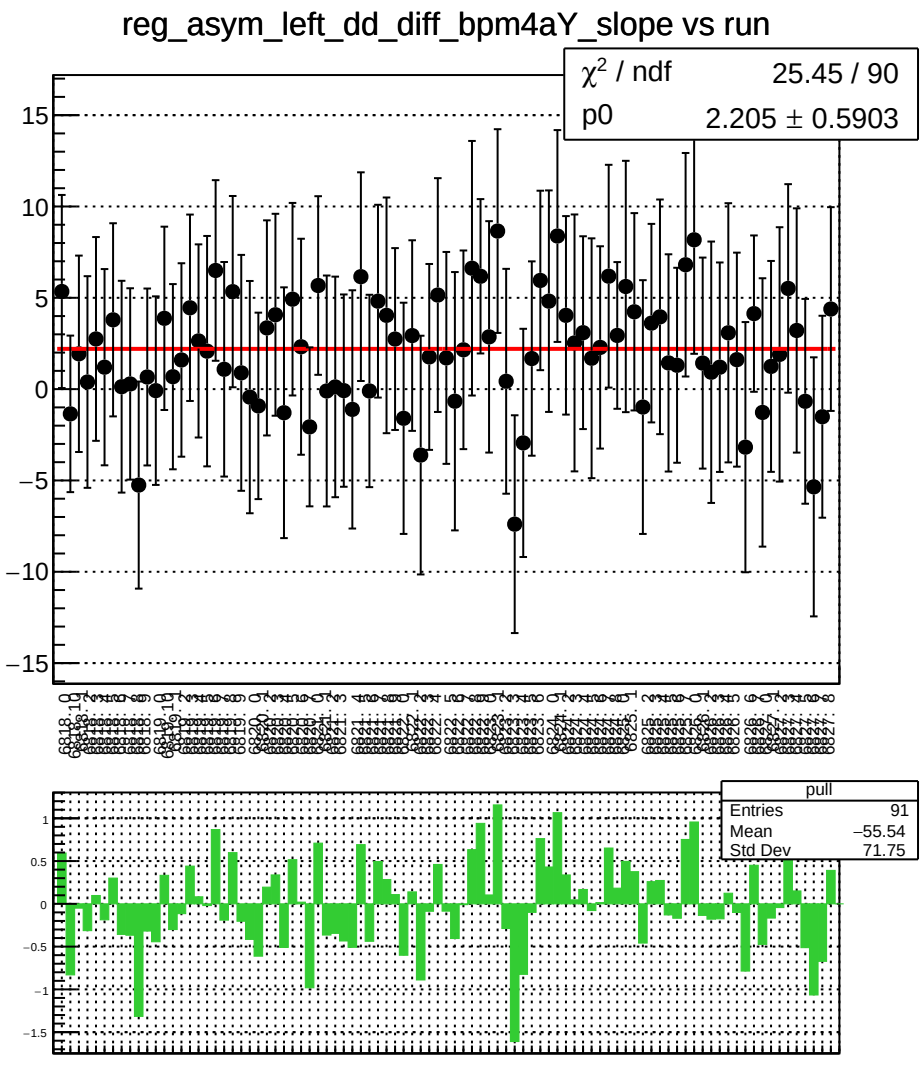

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.21 / 90
p0 6.511 ± 0.6849
pull
Entries 91
Mean −289.6
Std Dev 326.7

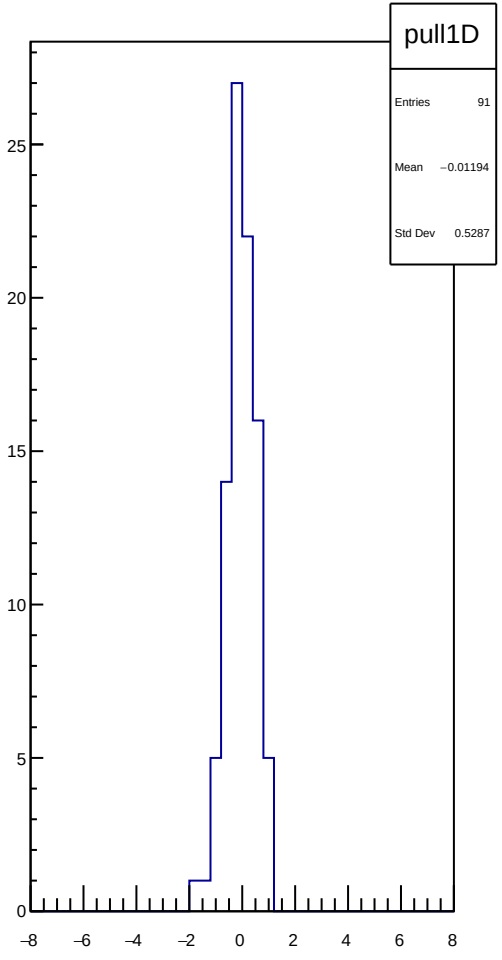

pull1D
Entries 91
Mean 0.00942
Std Dev 0.5567

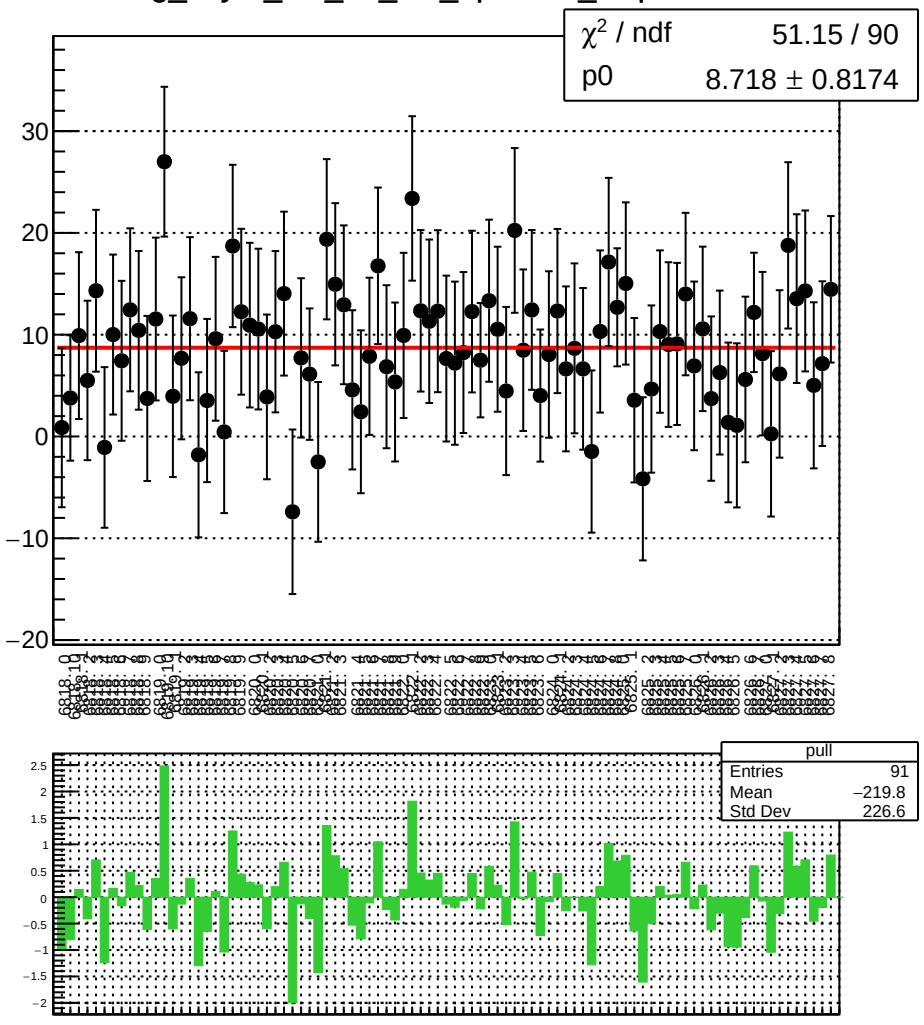

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 64.38 / 90
p0 −19.53 ± 0.03424
pull
Entries 91
Mean −565.1
Std Dev 610.4
pull1D
Entries 91
Mean 0.006165
Std Dev 0.8411

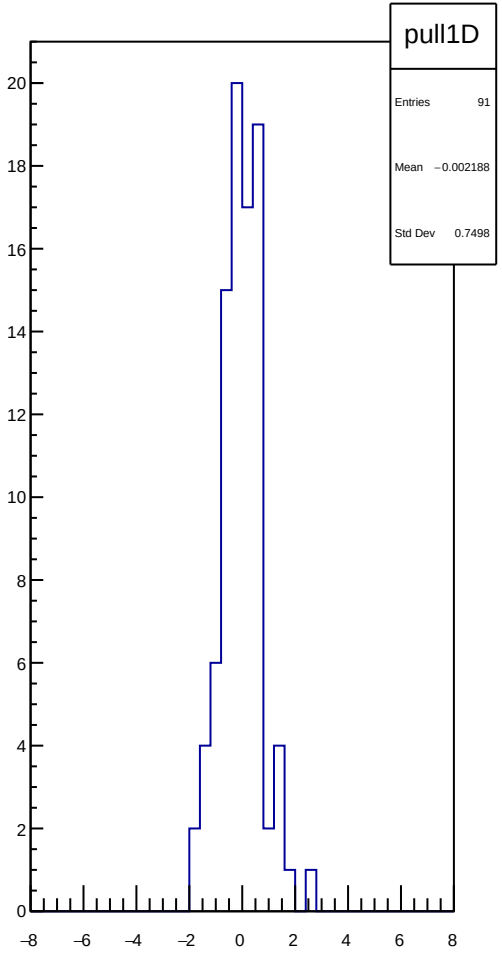

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 50.52 / 90
p0 −41.35 ± 0.874
pull
Entries 91
Mean −844.7
Std Dev 870.9

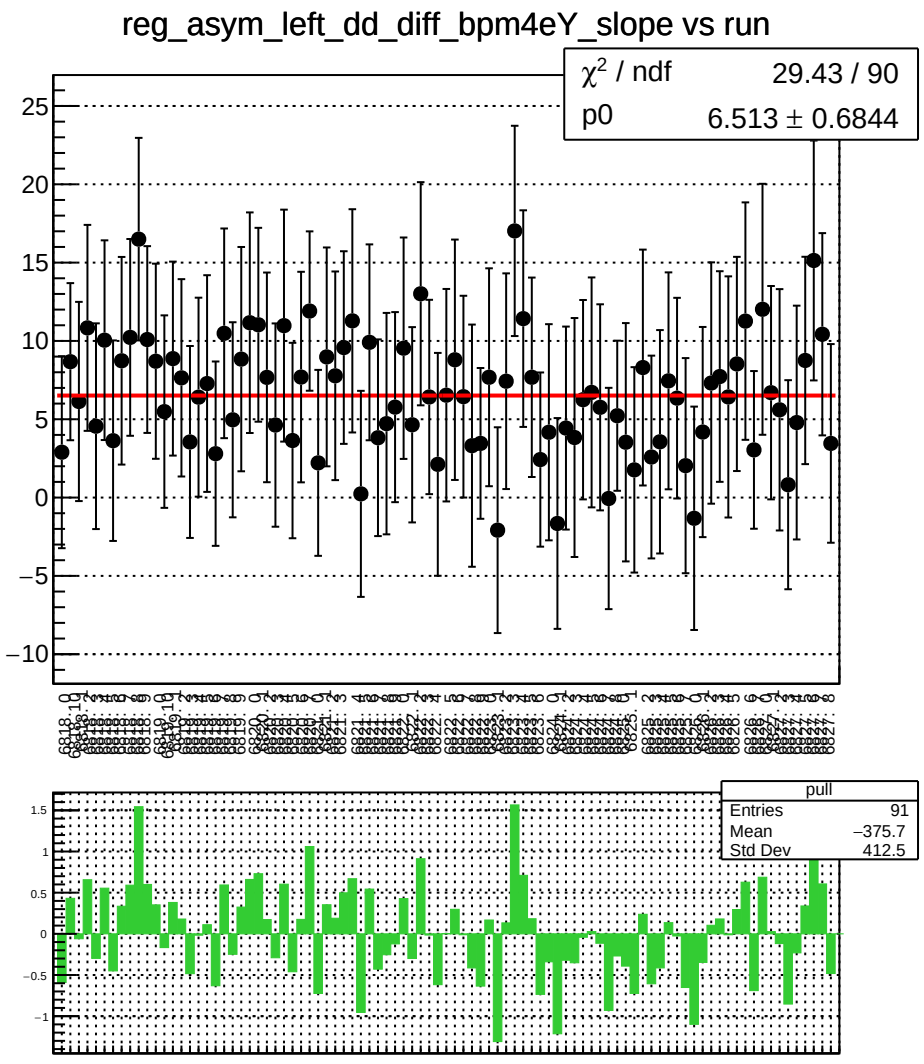

pull1D
Entries 91
Mean 0.001039
Std Dev 0.7451

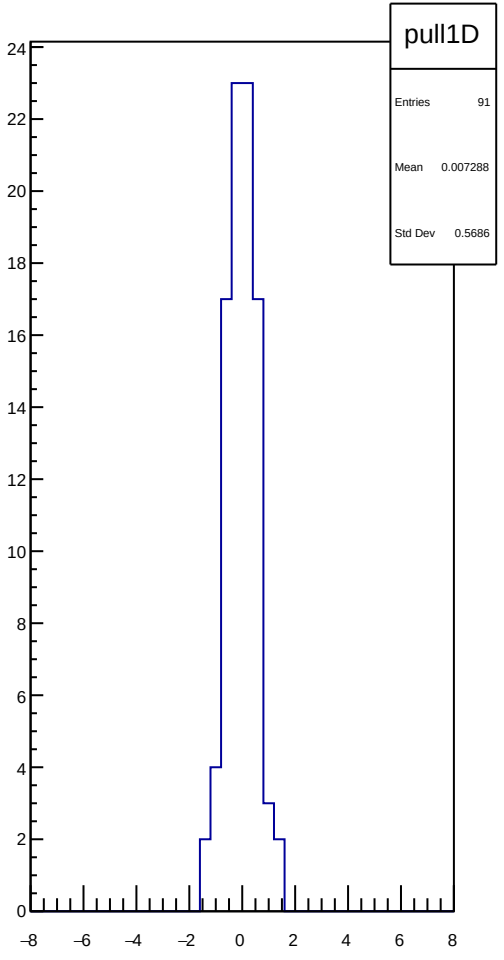

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.45 / 90
p0 2.205 ± 0.5903
pull
Entries 91
Mean −55.54
Std Dev 71.75

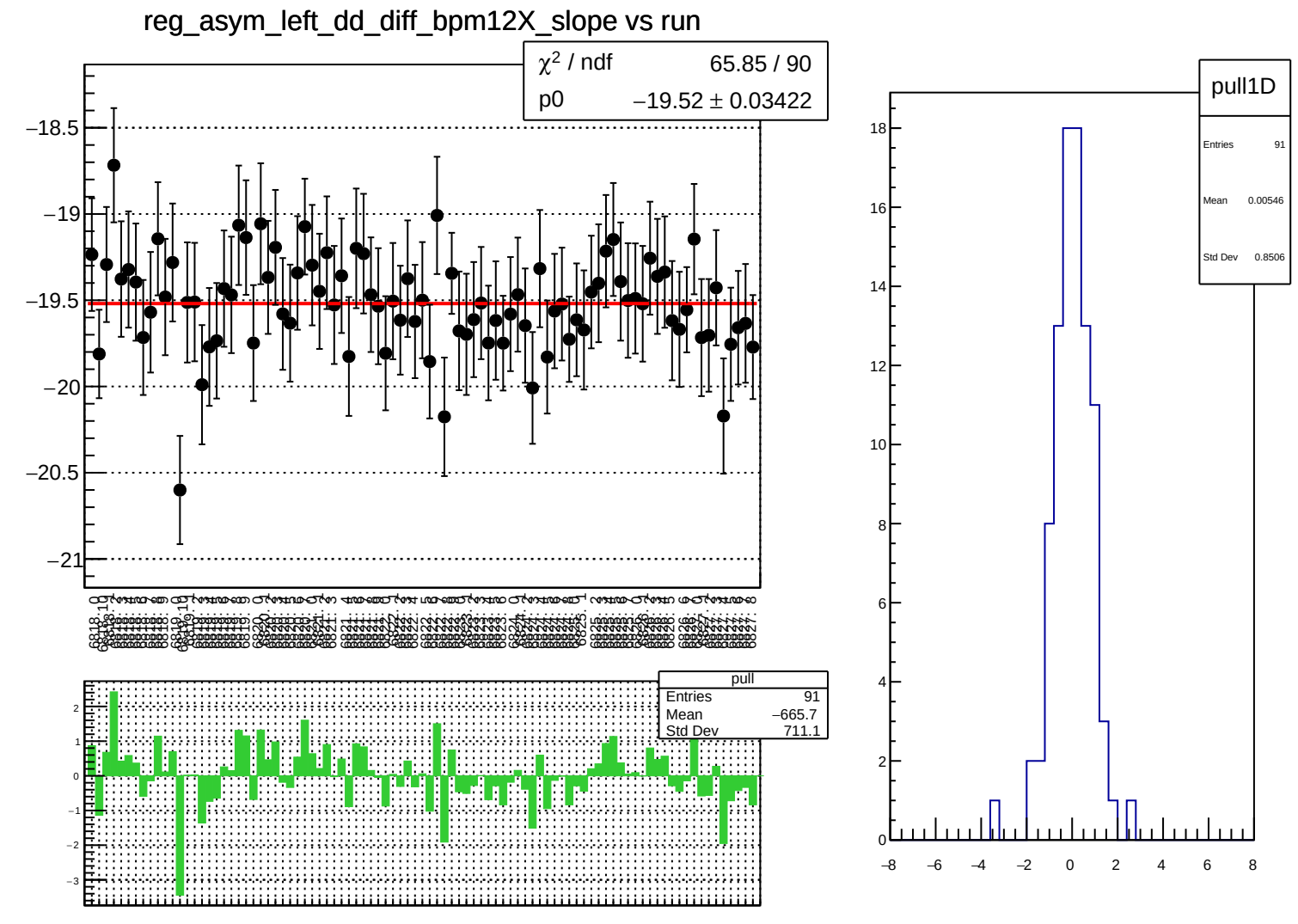

pull1D
Entries 91
Mean −0.01194
Std Dev 0.5287

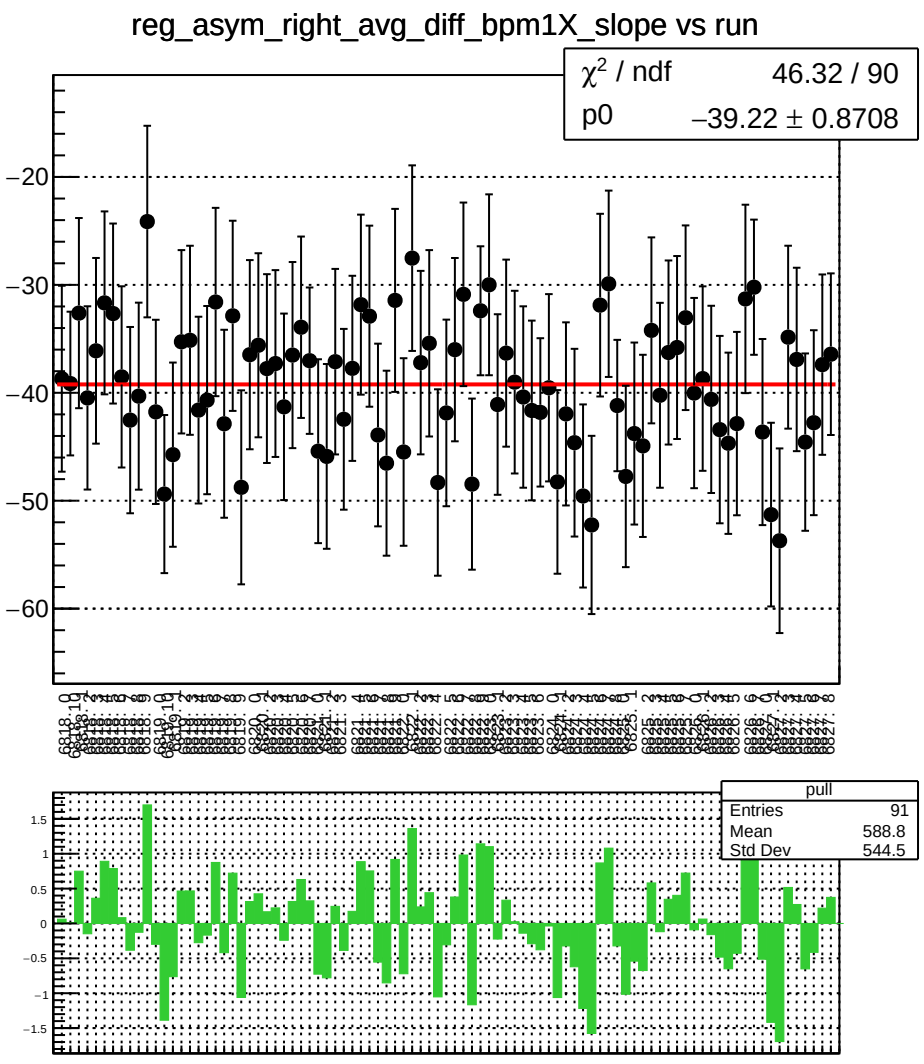

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.15 / 90
p0 8.718 ± 0.8174
pull
Entries 91
Mean −219.8
Std Dev 226.6

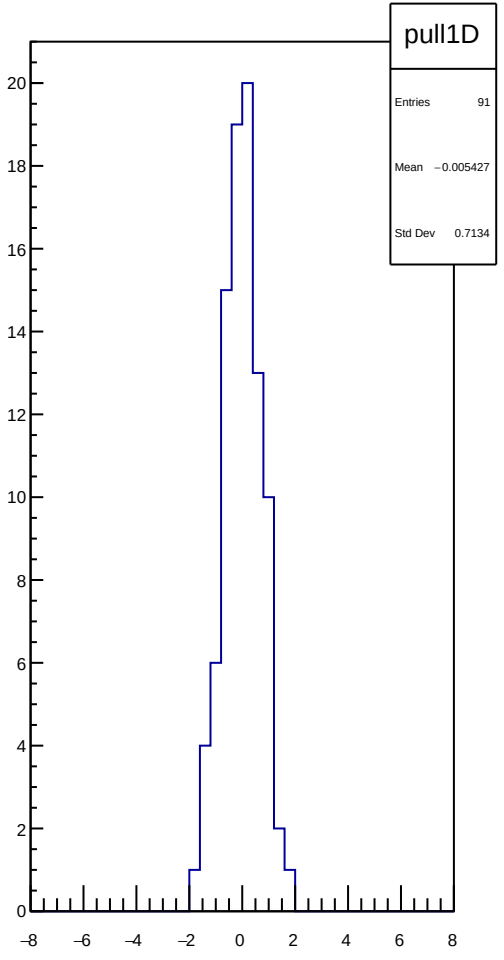

pull1D
Entries 91
Mean −0.002188
Std Dev 0.7498

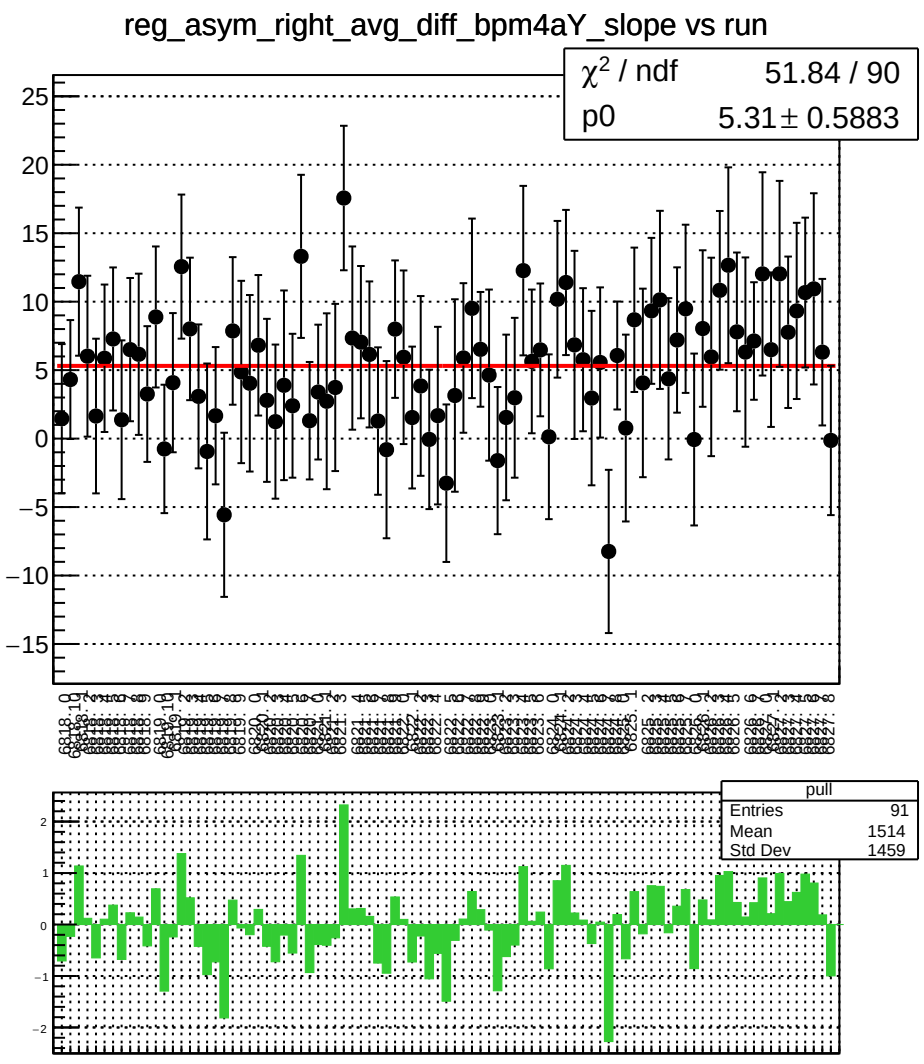

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.43 / 90
p0 6.513 ± 0.6844
pull
Entries 91
Mean −375.7
Std Dev 412.5

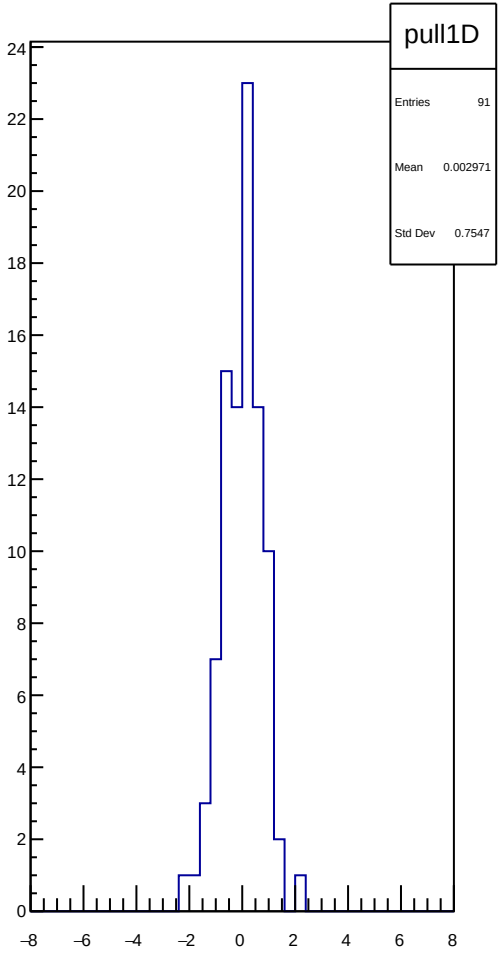

pull1D
Entries 91
Mean 0.007288
Std Dev 0.5686

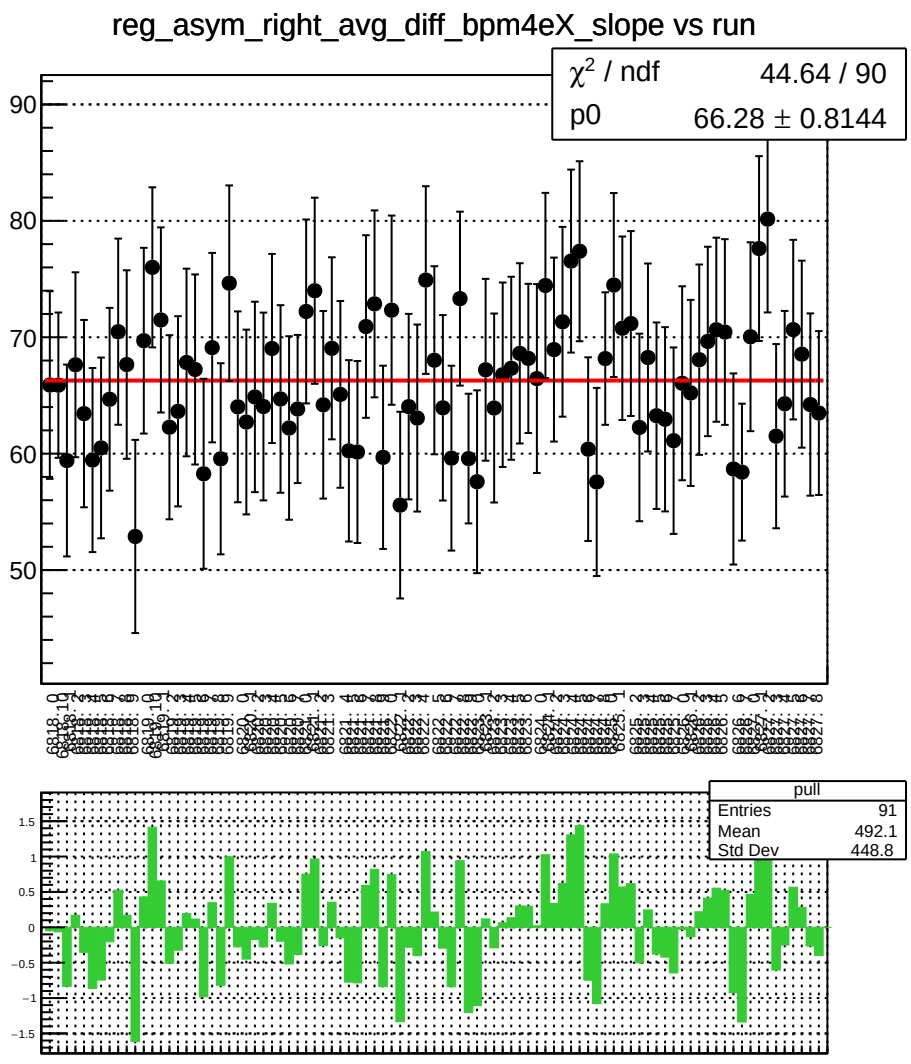

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 65.85 / 90
p0 −19.52 ± 0.03422
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 91
Mean −665.7
Std Dev 711.1
pull1D
Entries 91
Mean 0.00546
Std Dev 0.8506

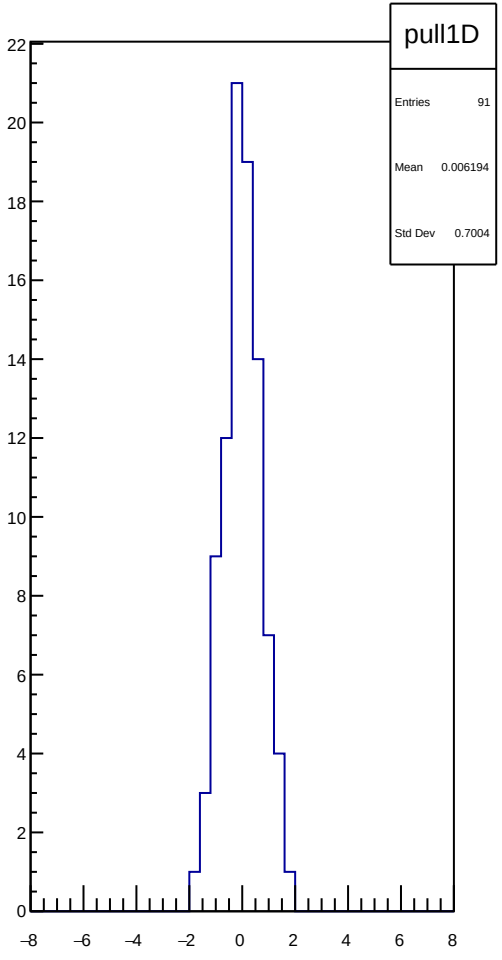

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 46.32 / 90
p0 −39.22 ± 0.8708
pull
Entries 91
Mean 588.8
Std Dev 544.5

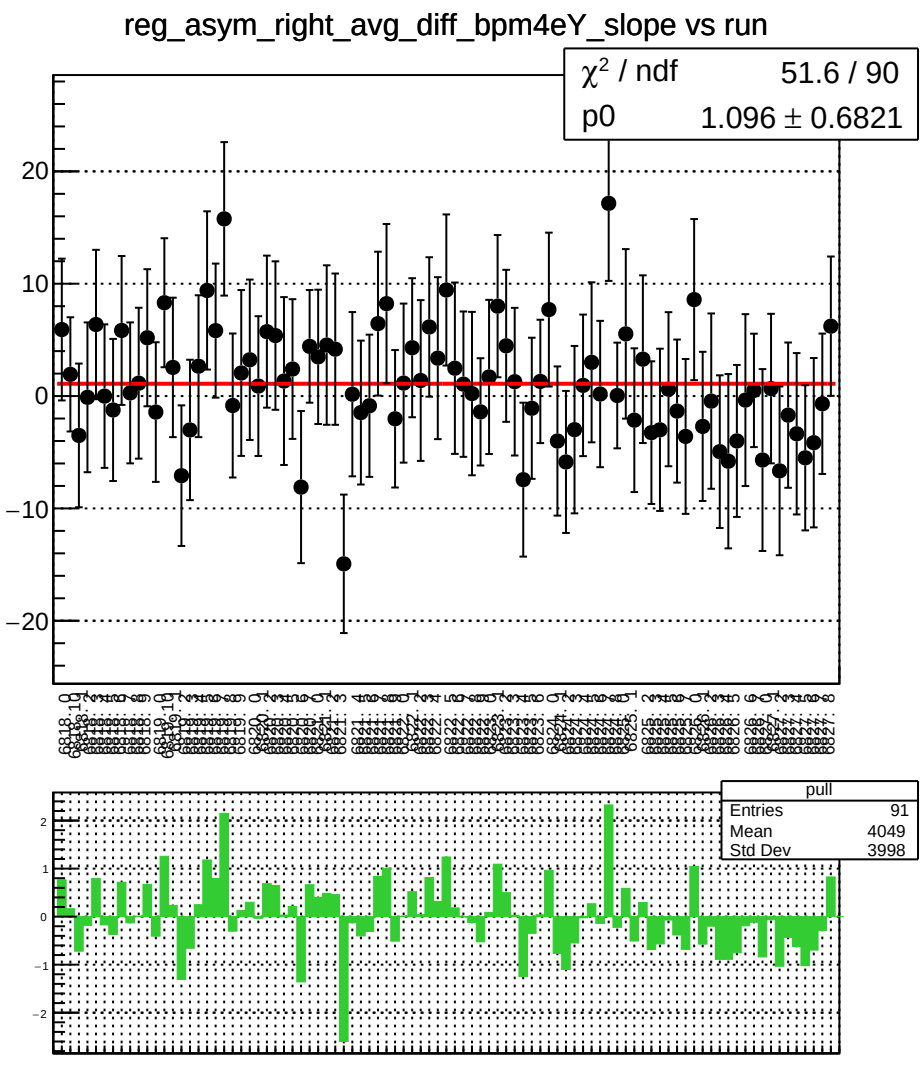

pull1D
Entries 91
Mean −0.005427
Std Dev 0.7134

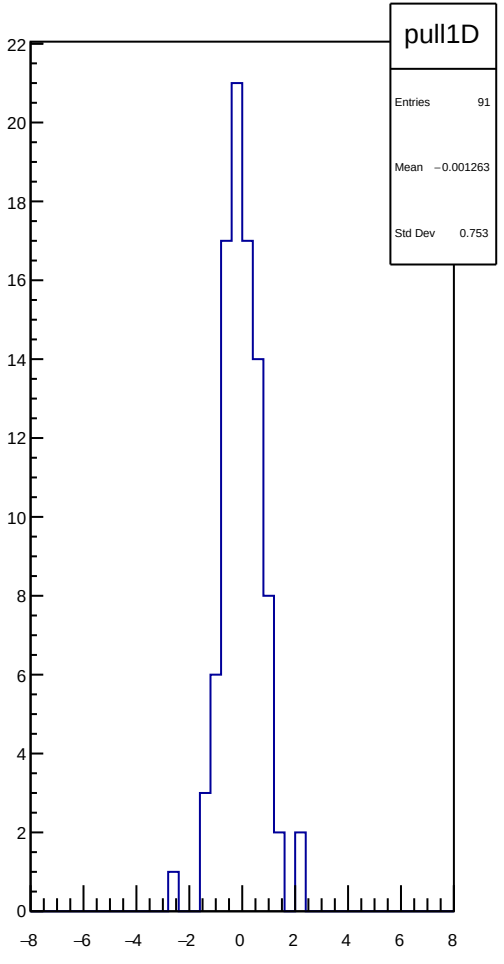

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.84 / 90
p0 5.31 ± 0.5883
pull
Entries 91
Mean 1514
Std Dev 1459

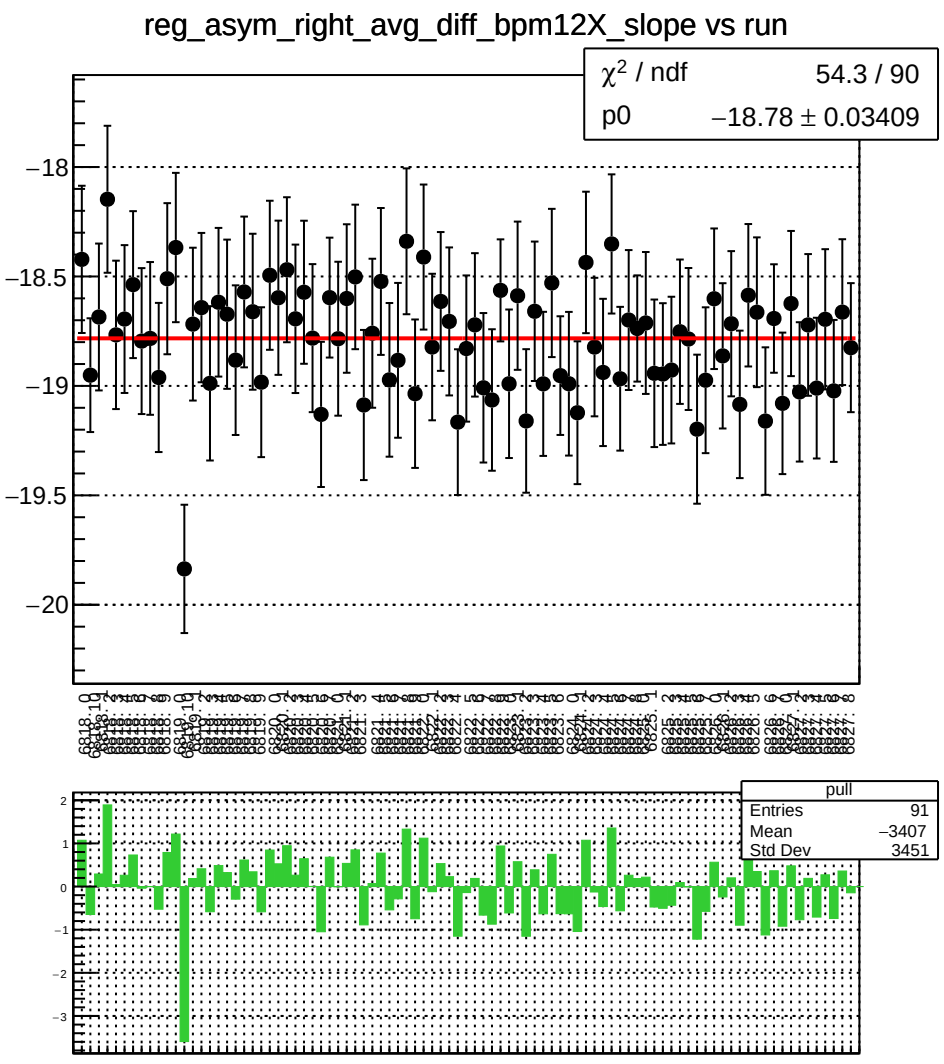

pull1D
Entries 91
Mean 0.002971
Std Dev 0.7547

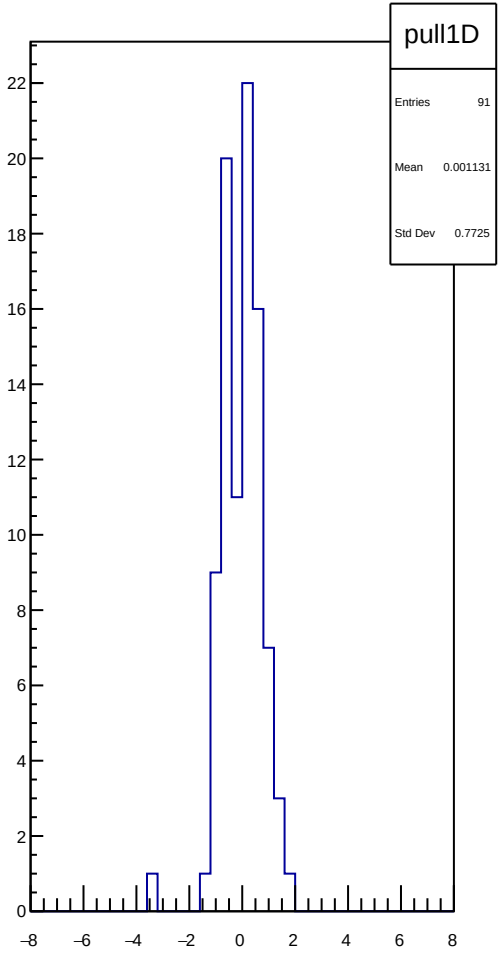

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.64 / 90
p0 66.28 ± 0.8144
pull
Entries 91
Mean 492.1
Std Dev 448.8

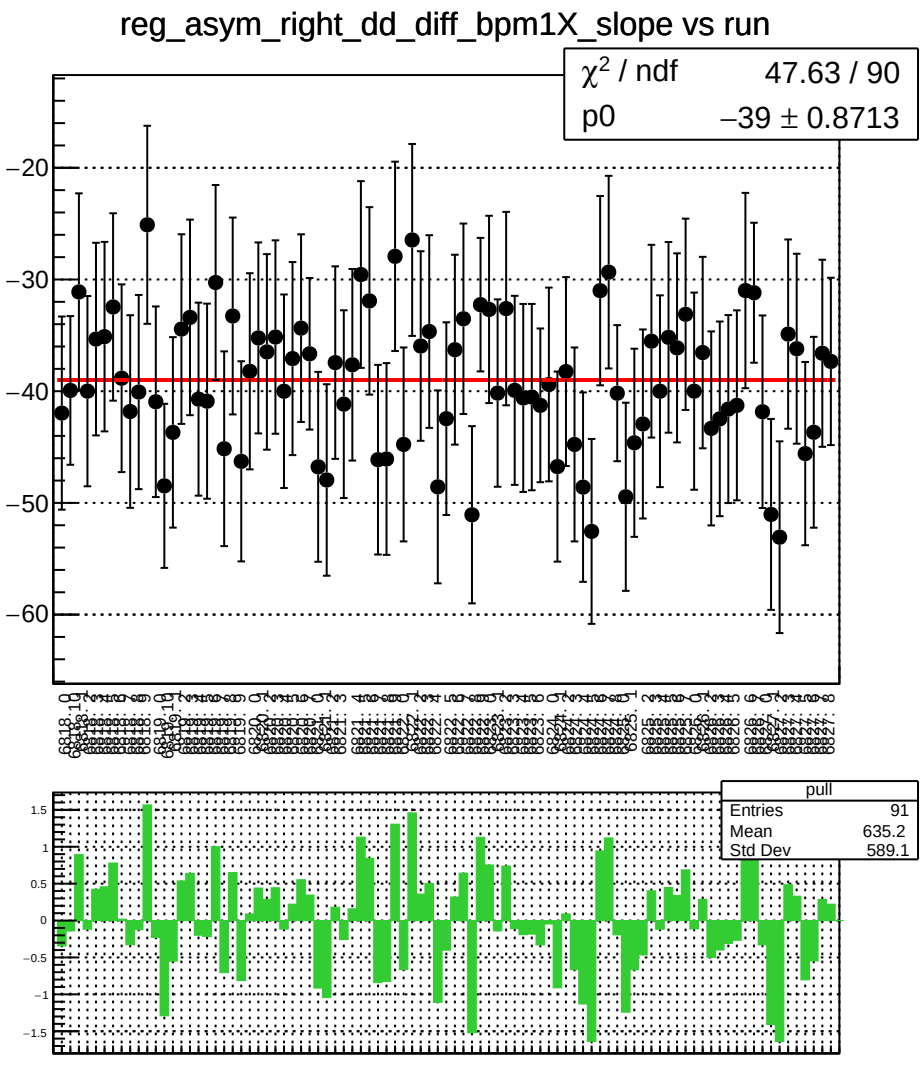

pull1D
Entries 91
Mean 0.006194
Std Dev 0.7004

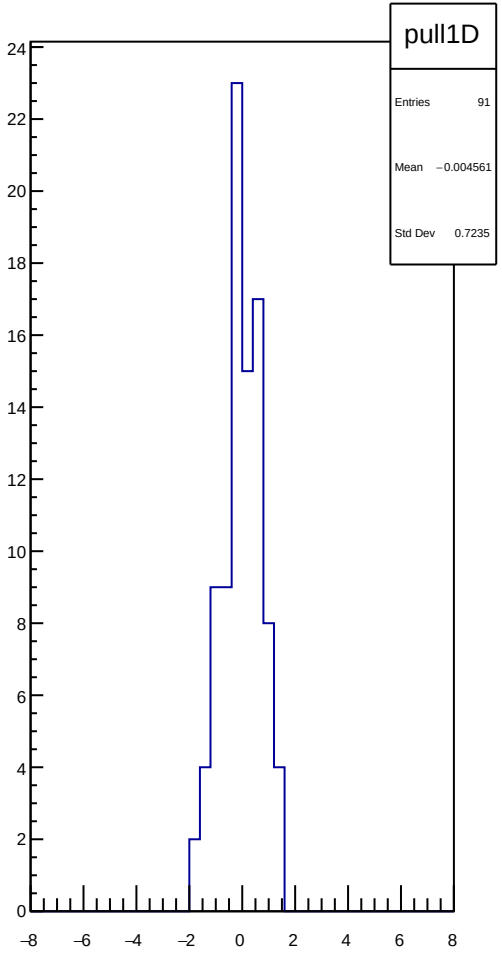

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.6 / 90
p0 1.096 ± 0.6821
pull
Entries 91
Mean 4049
Std Dev 3998

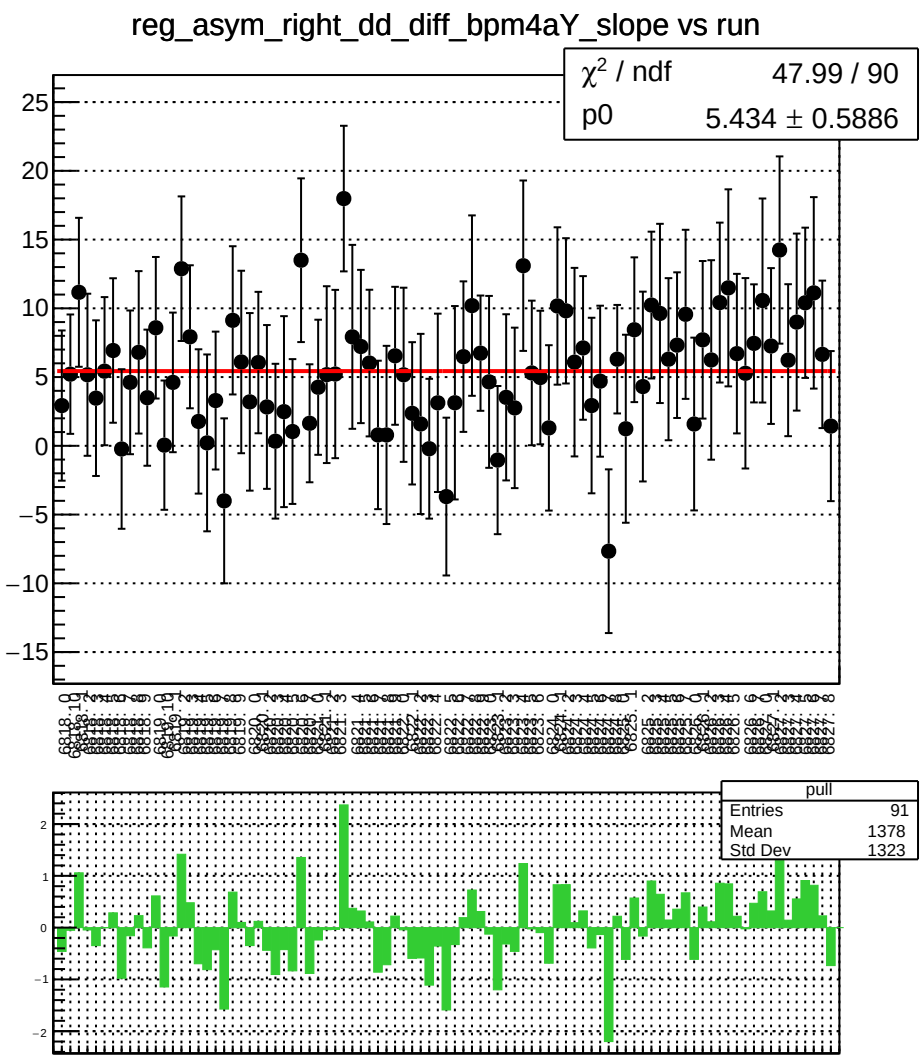

pull1D
Entries 91
Mean −0.001263
Std Dev 0.753

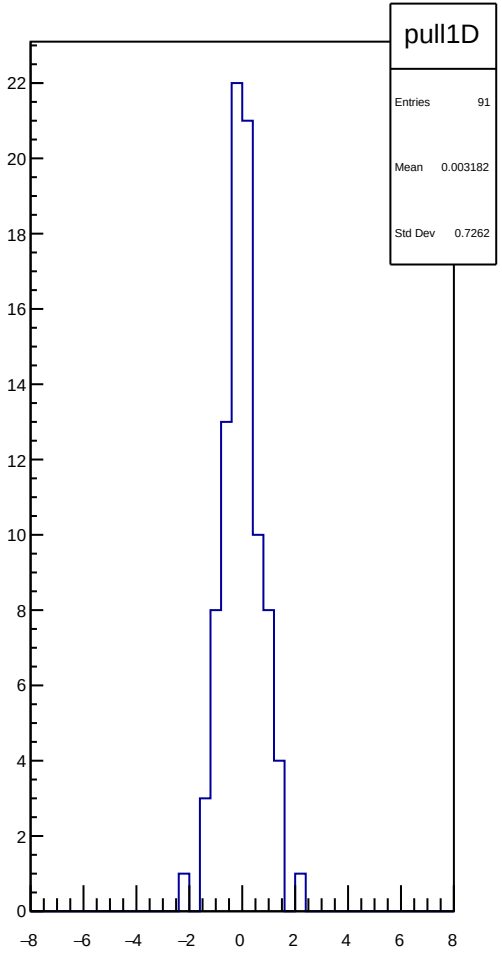

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 54.3 / 90
p0 −18.78 ± 0.03409
−18
−18.5
−19
−19.5
−20
pull
Entries 91
Mean −3407
Std Dev 3451
2
1
0
−1
−2
−3

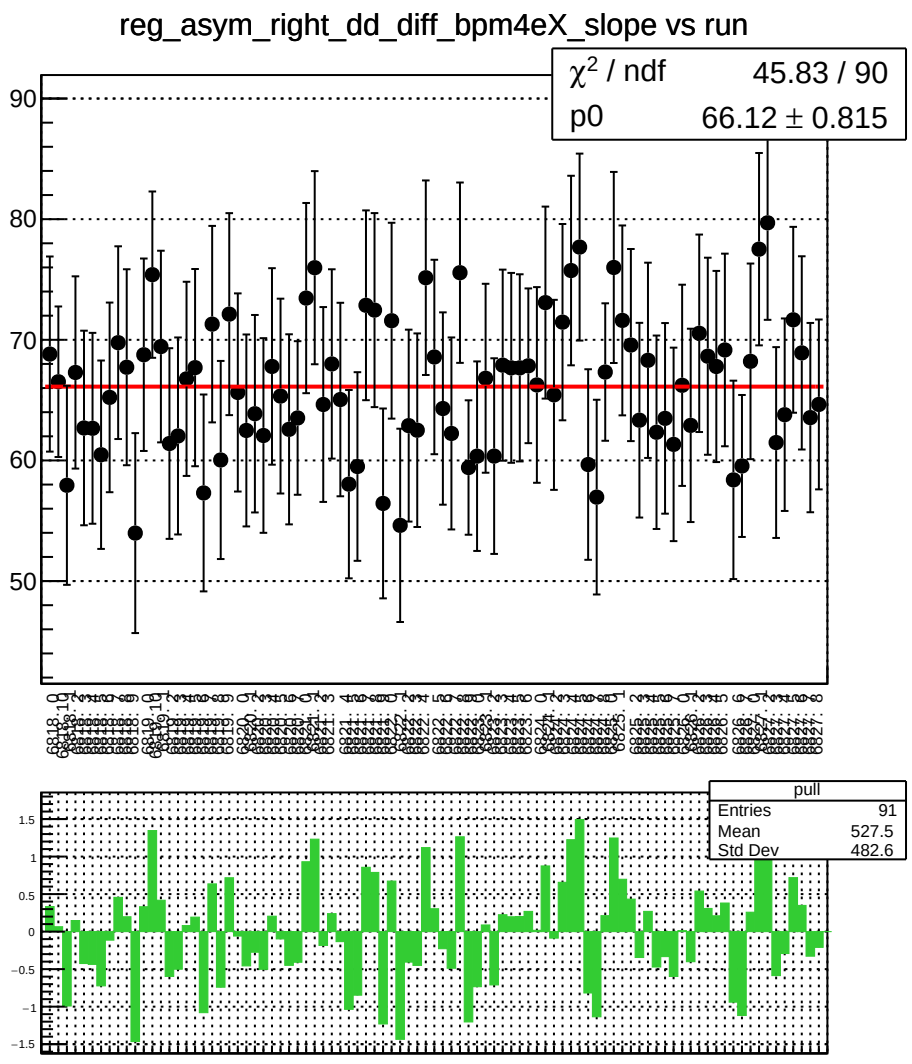

pull1D
Entries 91
Mean 0.001131
Std Dev 0.7725
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

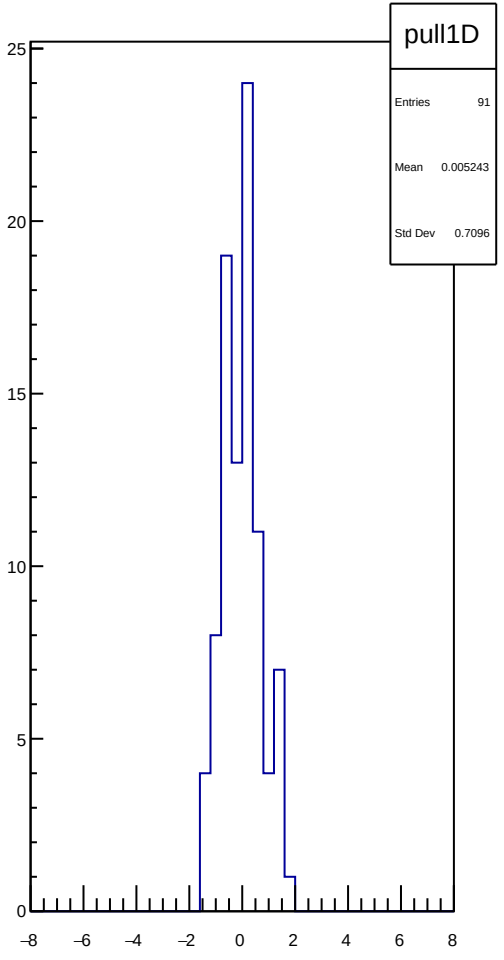

reg_asym_right_dd_diff_bpm1X_slope vs run
χ^2 / ndf 47.63 / 90
p0 −39 ± 0.8713
pull
Entries 91
Mean 635.2
Std Dev 589.1

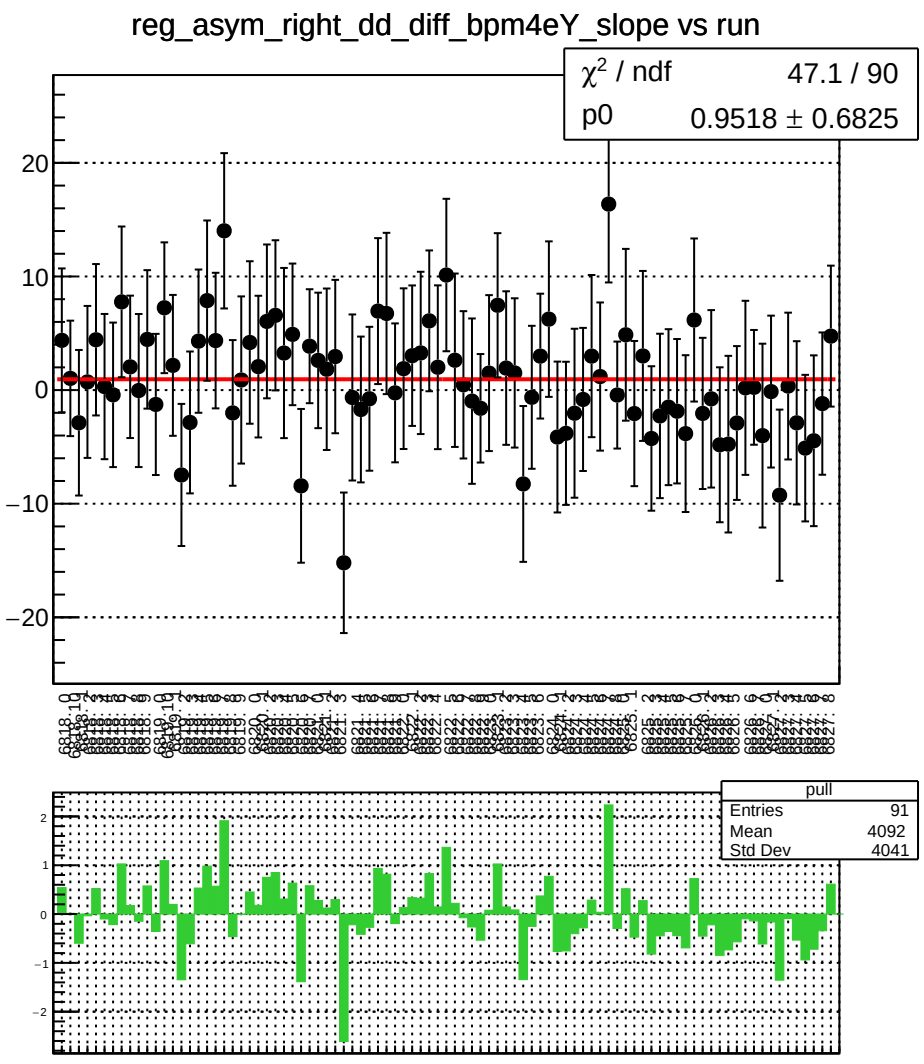

pull1D
Entries 91
Mean −0.004561
Std Dev 0.7235

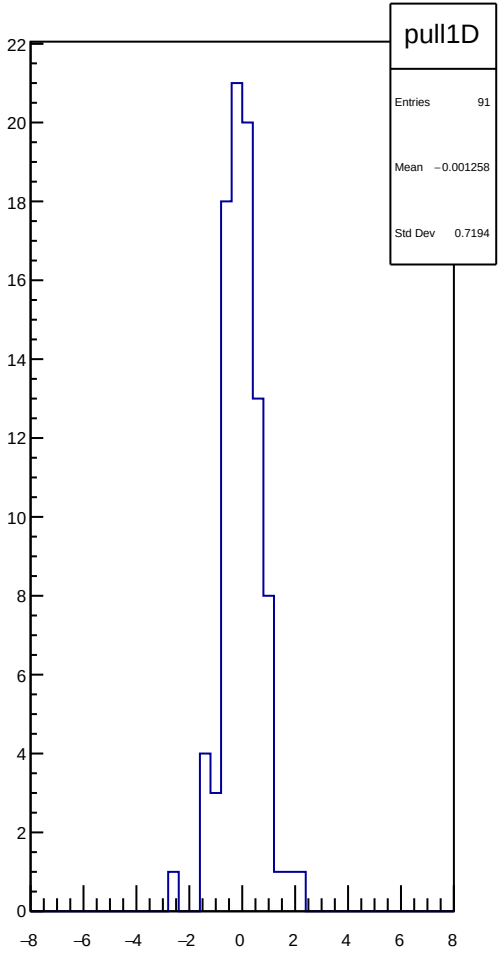

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.99 / 90
p0 5.434 ± 0.5886
pull
Entries 91
Mean 1378
Std Dev 1323

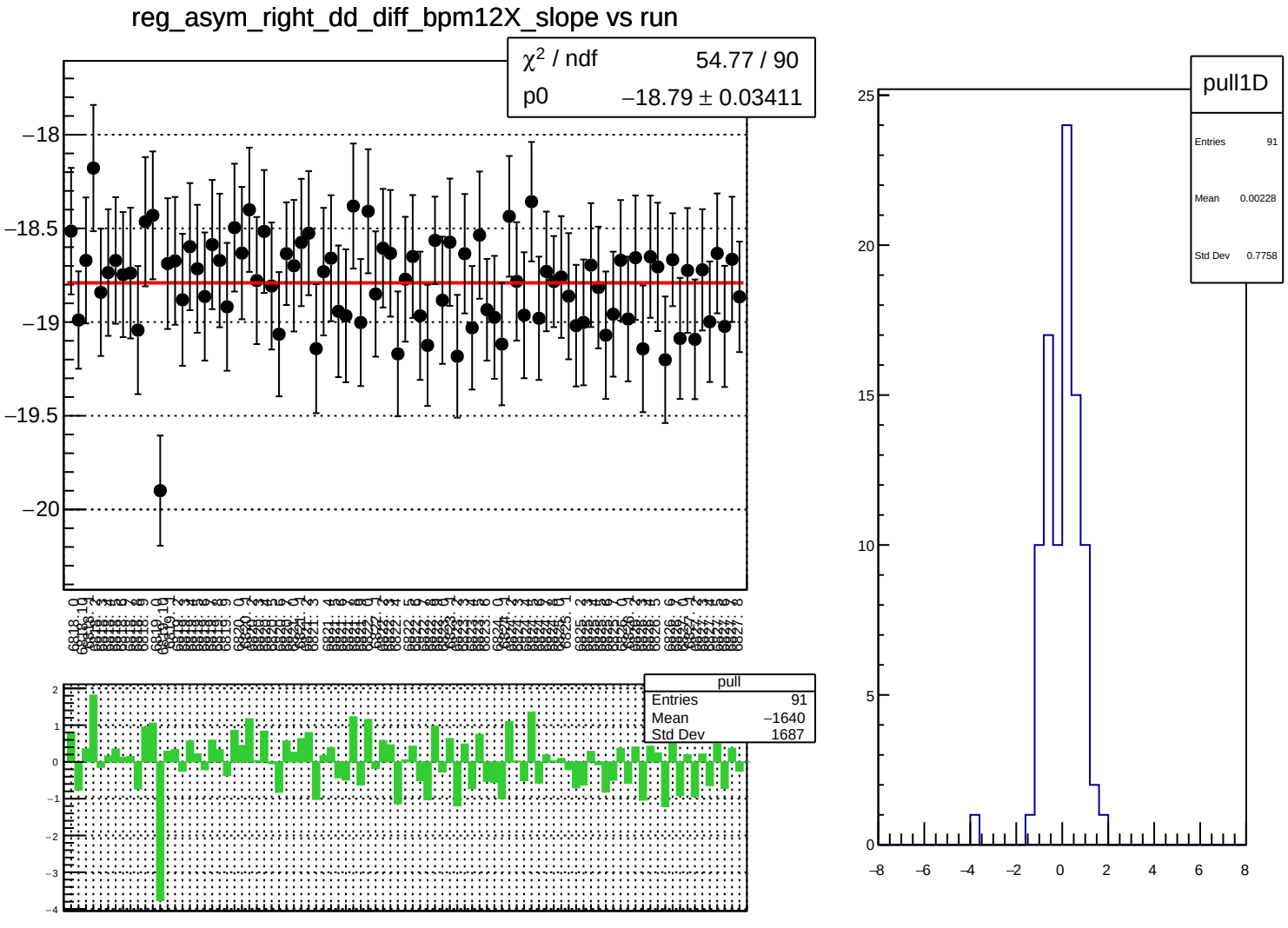

pull1D
Entries 91
Mean 0.003182
Std Dev 0.7262

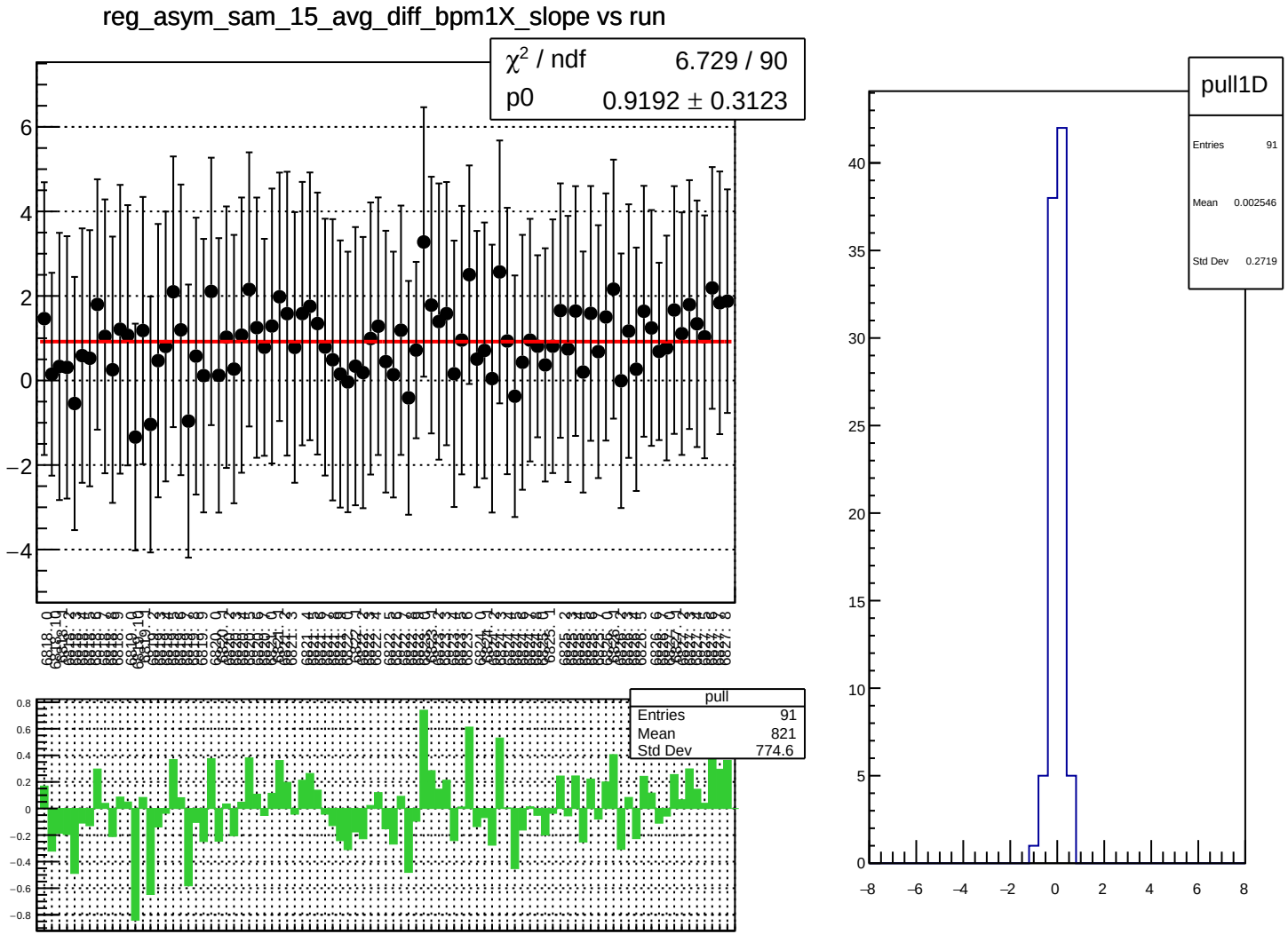

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.83 / 90
p0 66.12 ± 0.815
pull
Entries 91
Mean 527.5
Std Dev 482.6

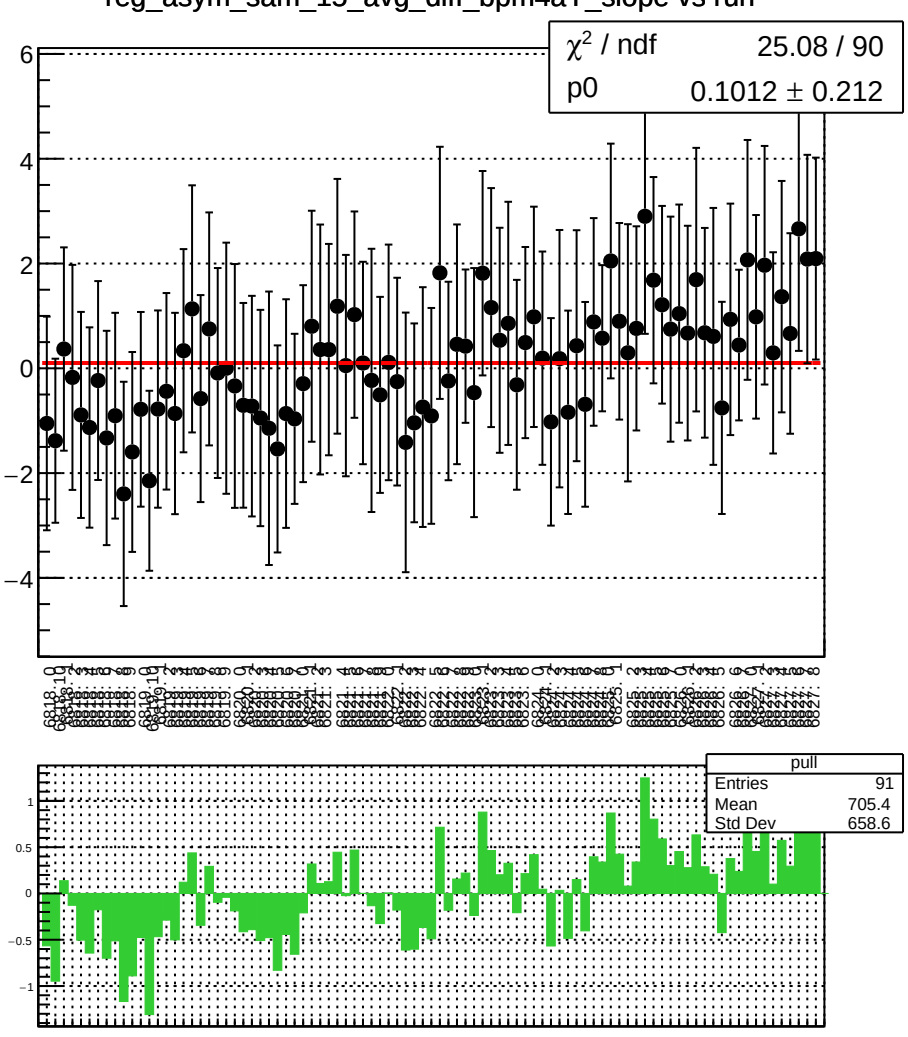

pull1D
Entries 91
Mean 0.005243
Std Dev 0.7096

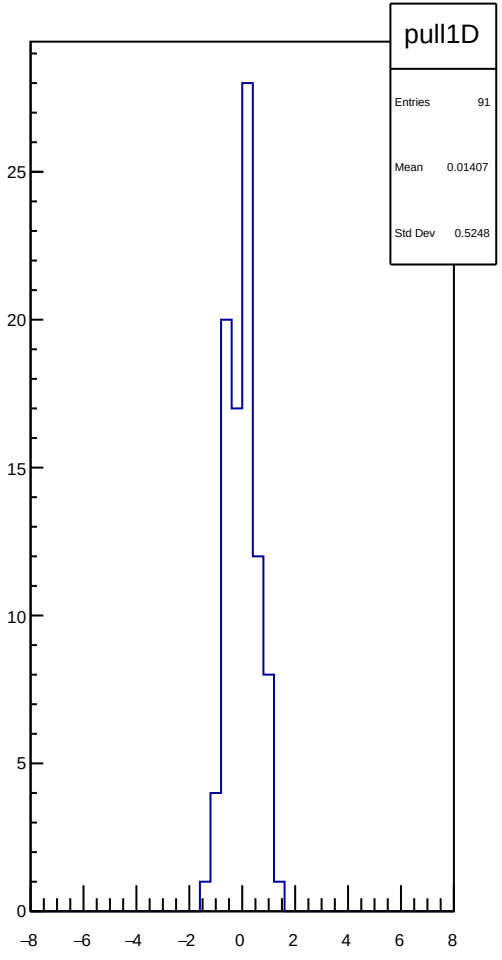

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.1 / 90
p0 0.9518 ± 0.6825
pull
Entries 91
Mean 4092
Std Dev 4041

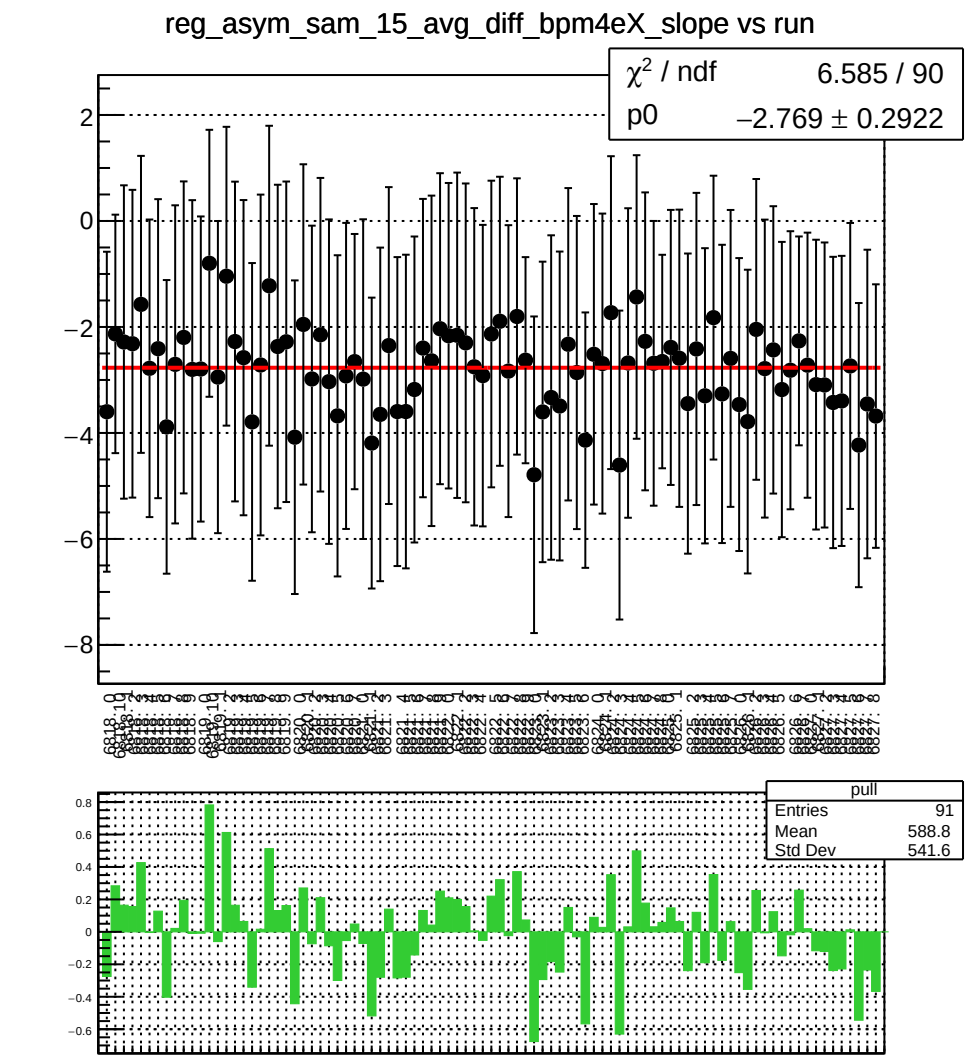

pull1D
Entries 91
Mean −0.001258
Std Dev 0.7194

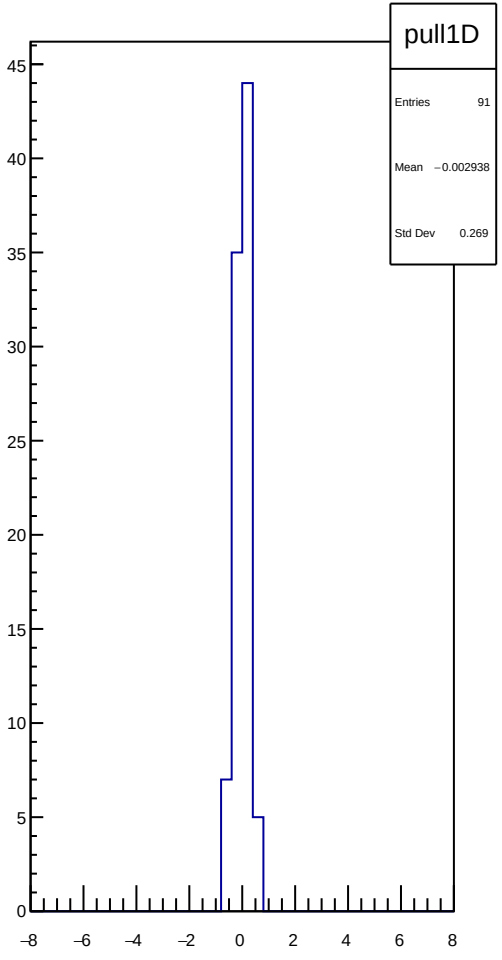

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 54.77 / 90
p0 −18.79 ± 0.03411
−18
−18.5
−19
−19.5
−20
pull
Entries 91
Mean −1640
Std Dev 1687
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean 0.00228
Std Dev 0.7758
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

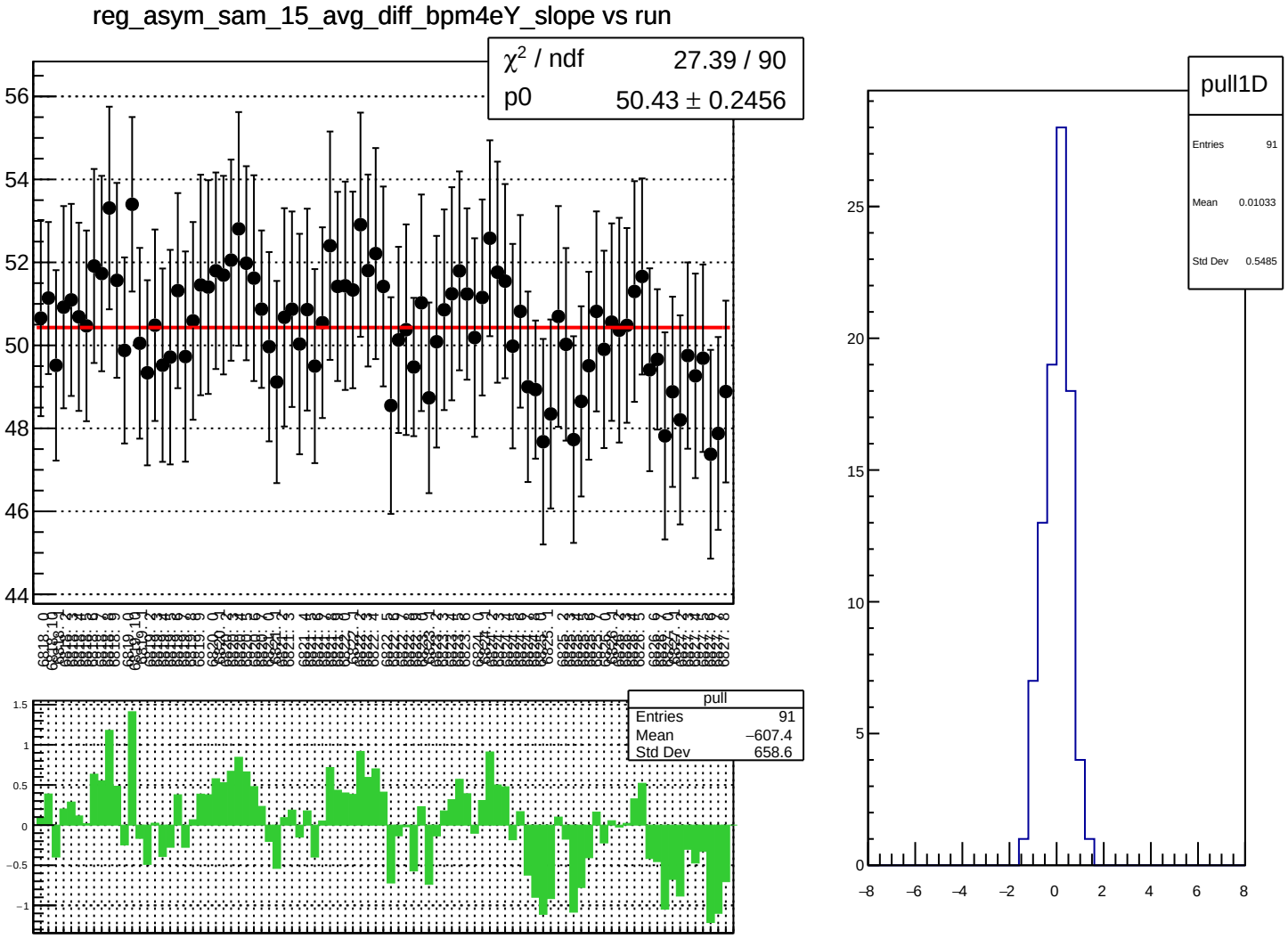

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 6.729 / 90
p0 0.9192 ± 0.3123
pull
Entries 91
Mean 821
Std Dev 774.6
pull1D
Entries 91
Mean 0.002546
Std Dev 0.2719

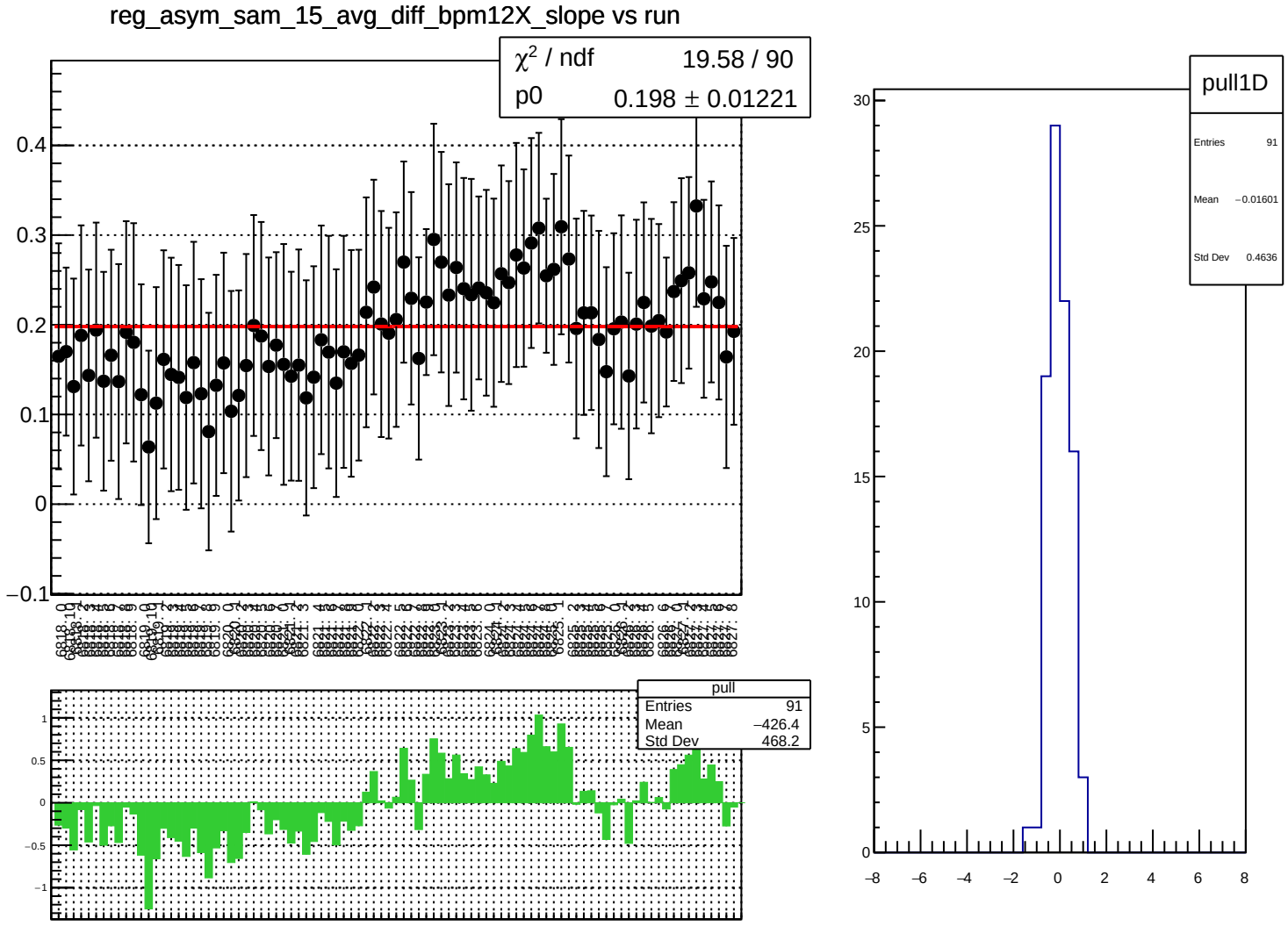

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.08 / 90
p0 0.1012 ± 0.212
pull
Entries 91
Mean 705.4
Std Dev 658.6

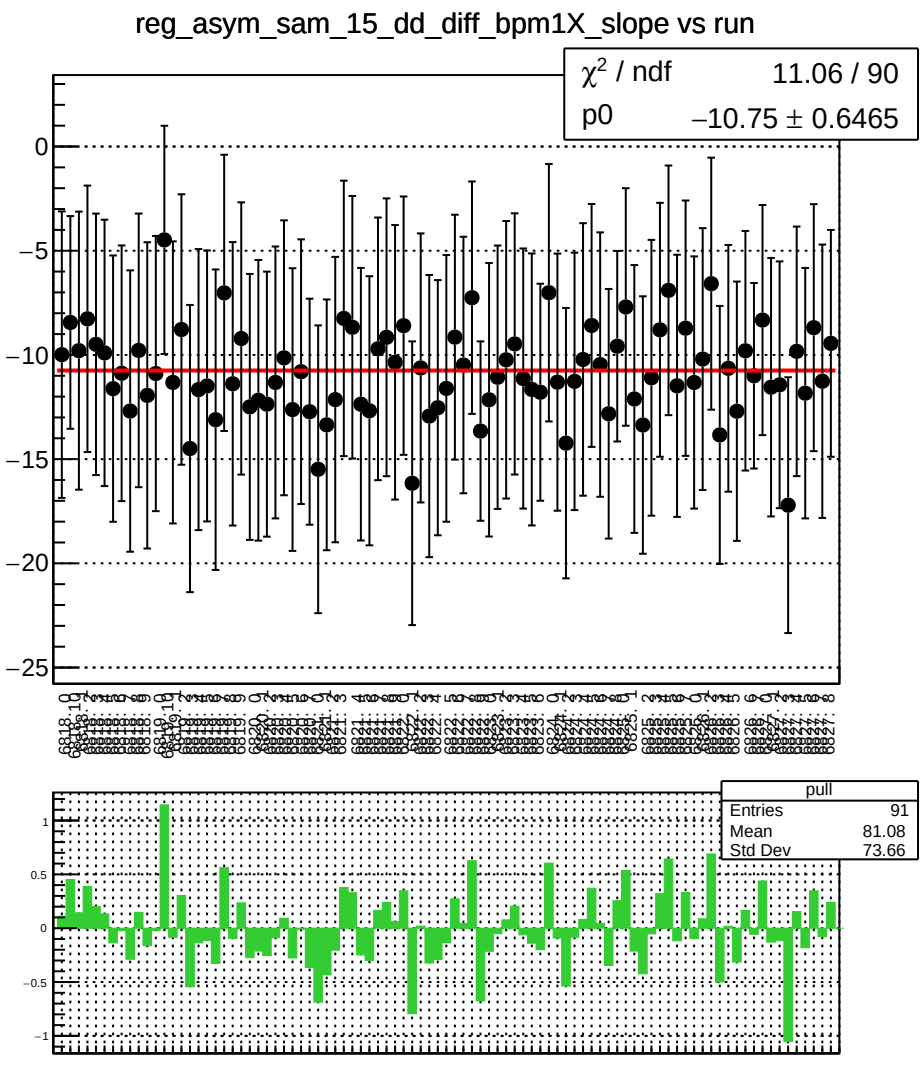

pull1D
Entries 91
Mean 0.01407
Std Dev 0.5248

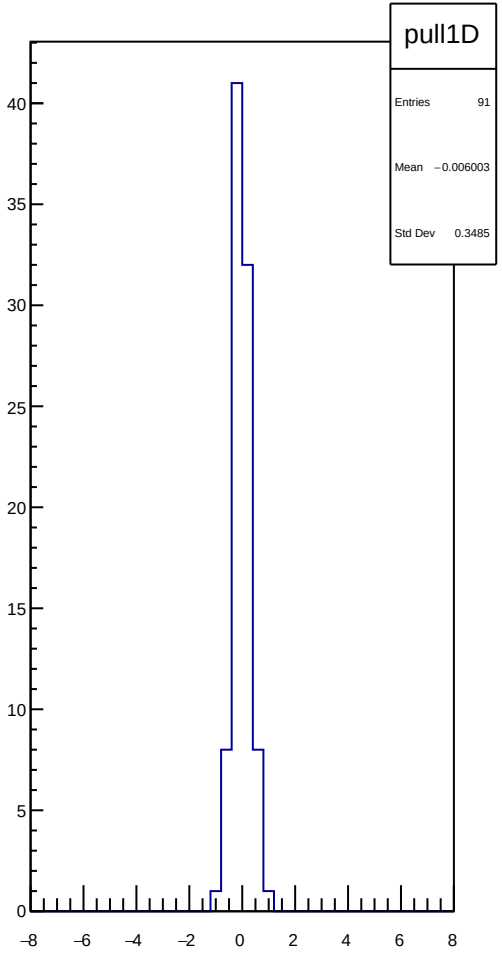

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.585 / 90
p0 −2.769 ± 0.2922
pull
Entries 91
Mean 588.8
Std Dev 541.6

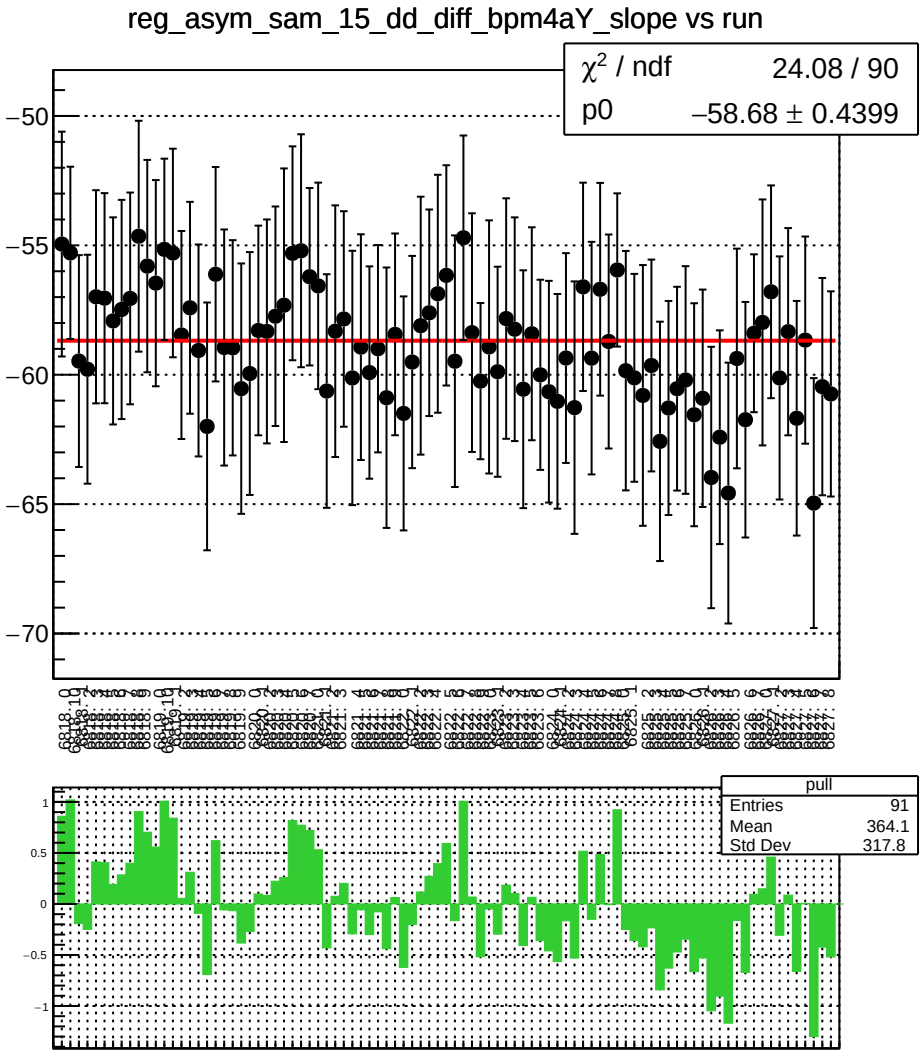

pull1D
Entries 91
Mean −0.002938
Std Dev 0.269

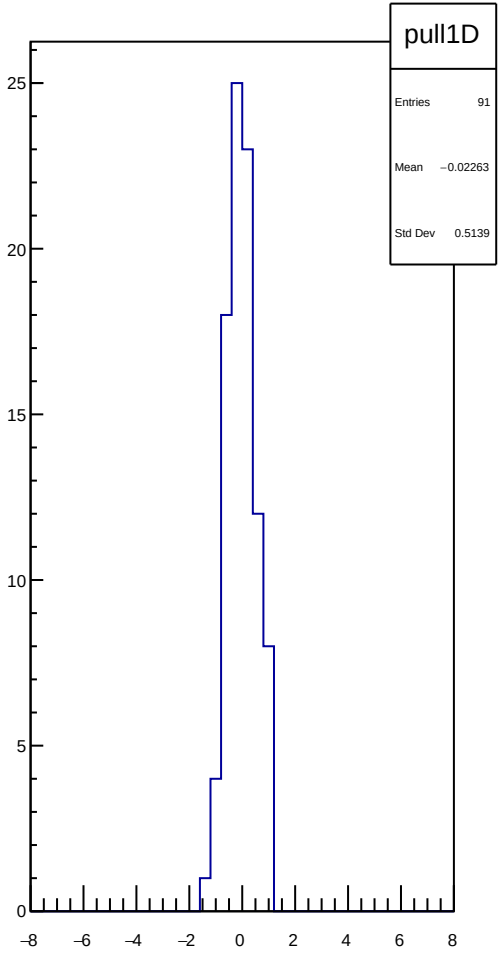

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.39 / 90
p0 50.43 ± 0.2456
pull
Entries 91
Mean −607.4
Std Dev 658.6
pull1D
Entries 91
Mean 0.01033
Std Dev 0.5485

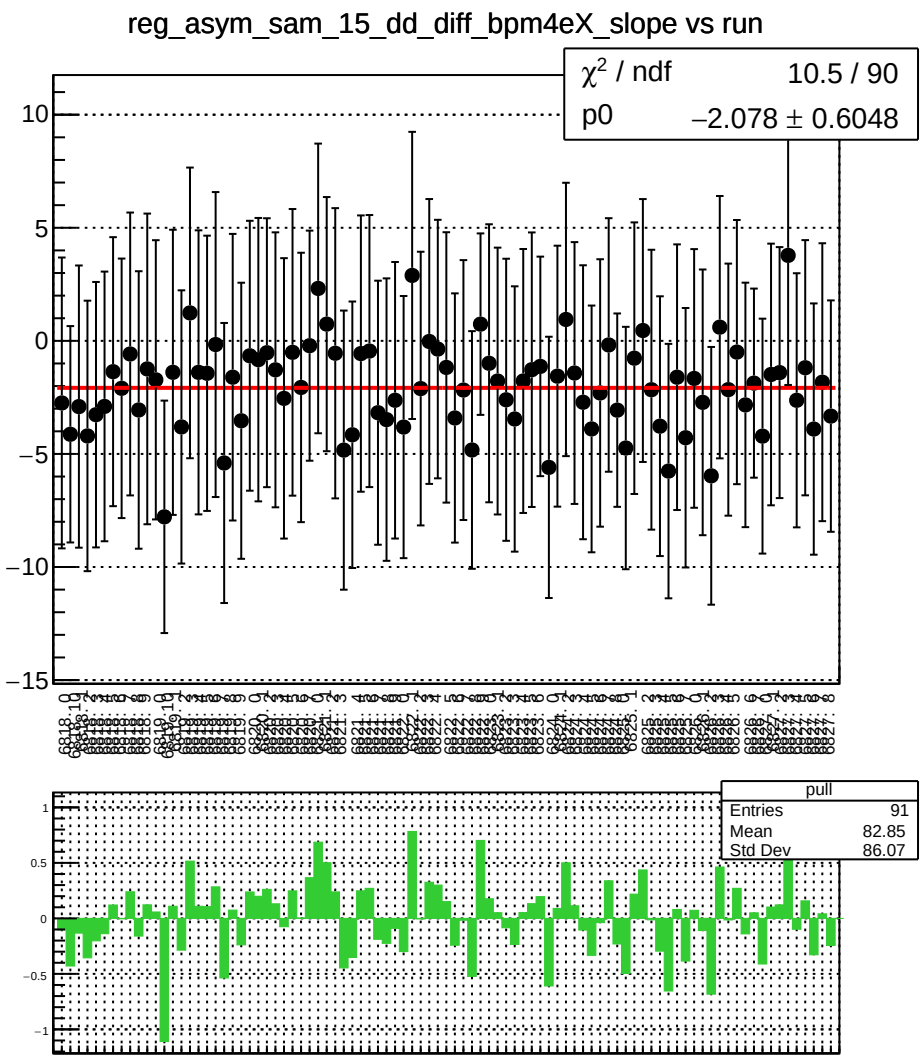

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 19.58 / 90
p0 0.198 ± 0.01221
pull
Entries 91
Mean −426.4
Std Dev 468.2
pull1D
Entries 91
Mean −0.01601
Std Dev 0.4636

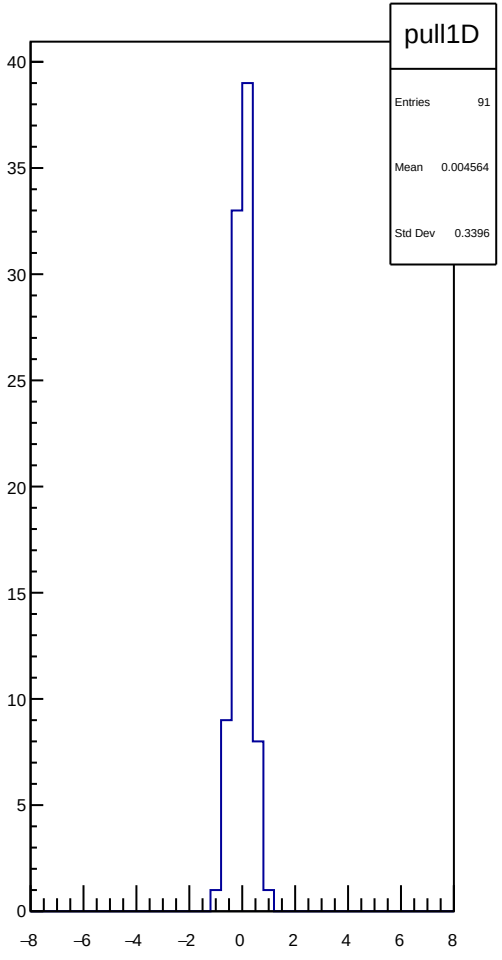

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 11.06 / 90
p0 −10.75 ± 0.6465
pull
Entries 91
Mean 81.08
Std Dev 73.66

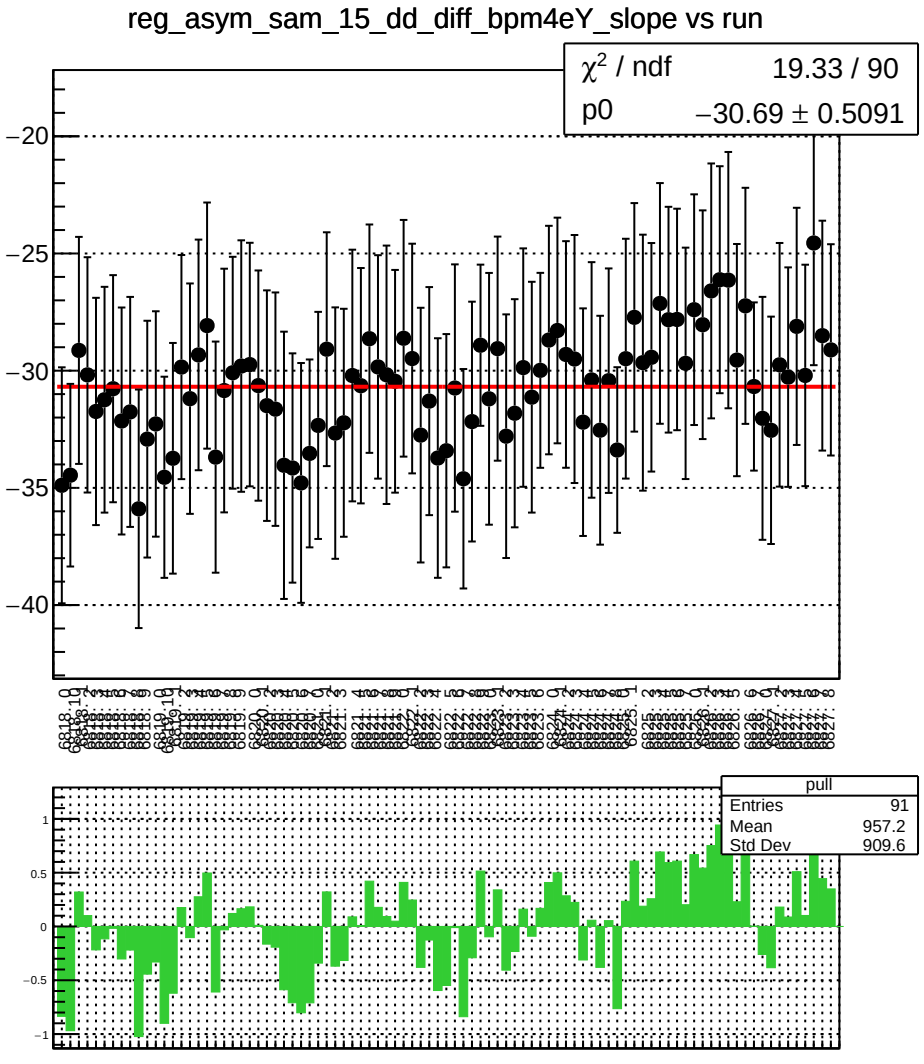

pull1D
Entries 91
Mean −0.006003
Std Dev 0.3485

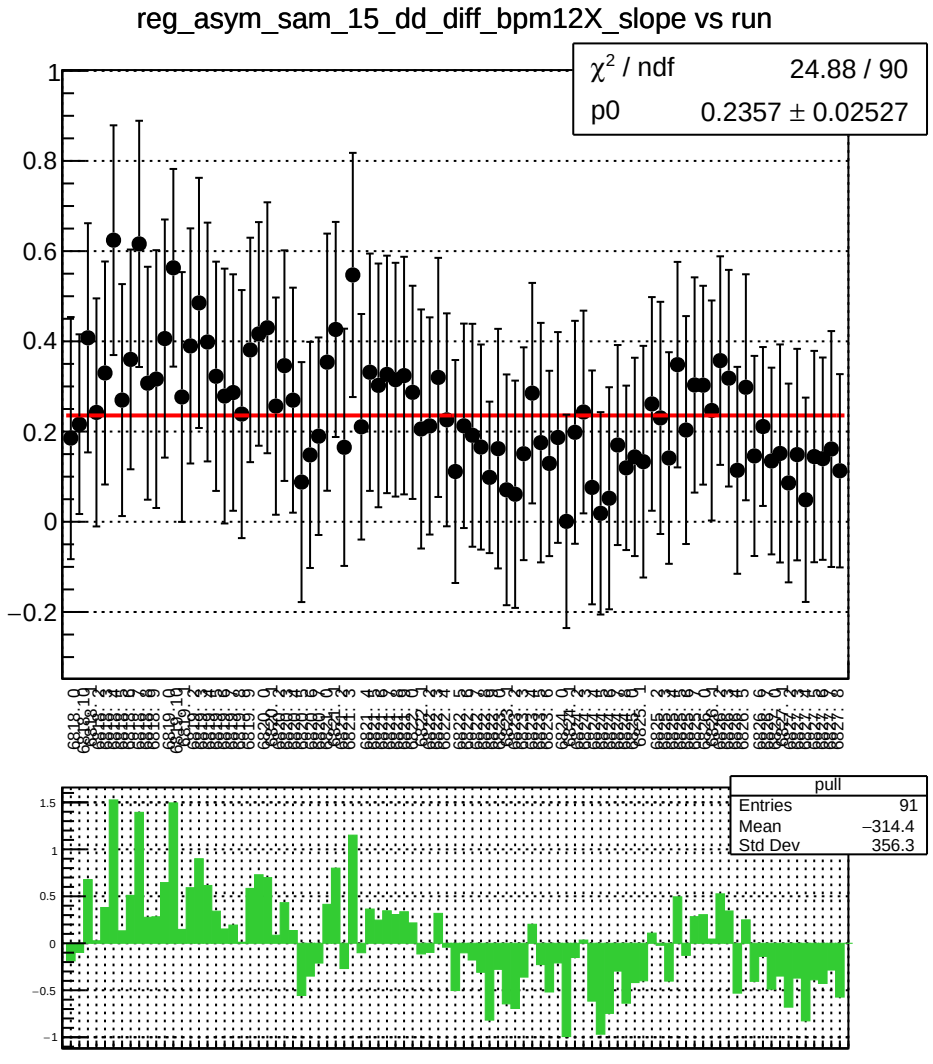

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.08 / 90
p0 −58.68 ± 0.4399
−50
−55
−60
−65
−70
pull
Entries 91
Mean 364.1
Std Dev 317.8
1
0.5
0
−0.5
−1

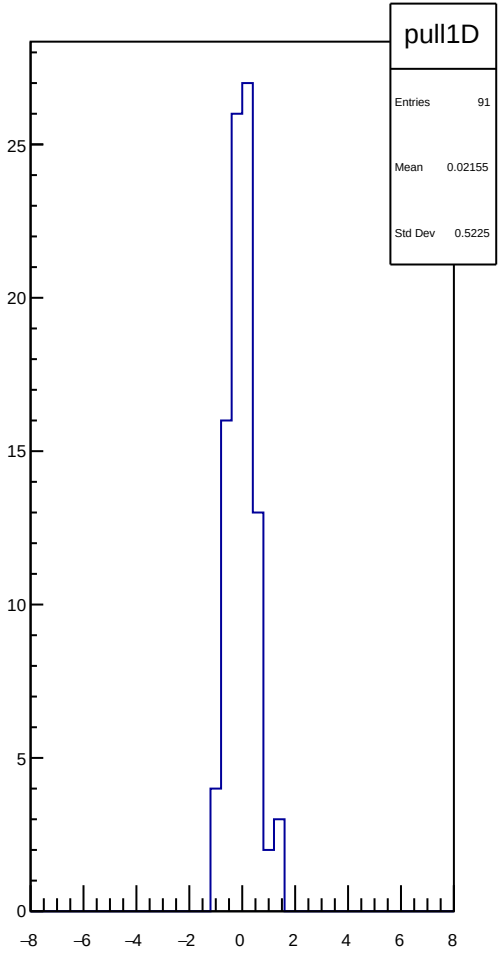

pull1D
Entries 91
Mean −0.02263
Std Dev 0.5139
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

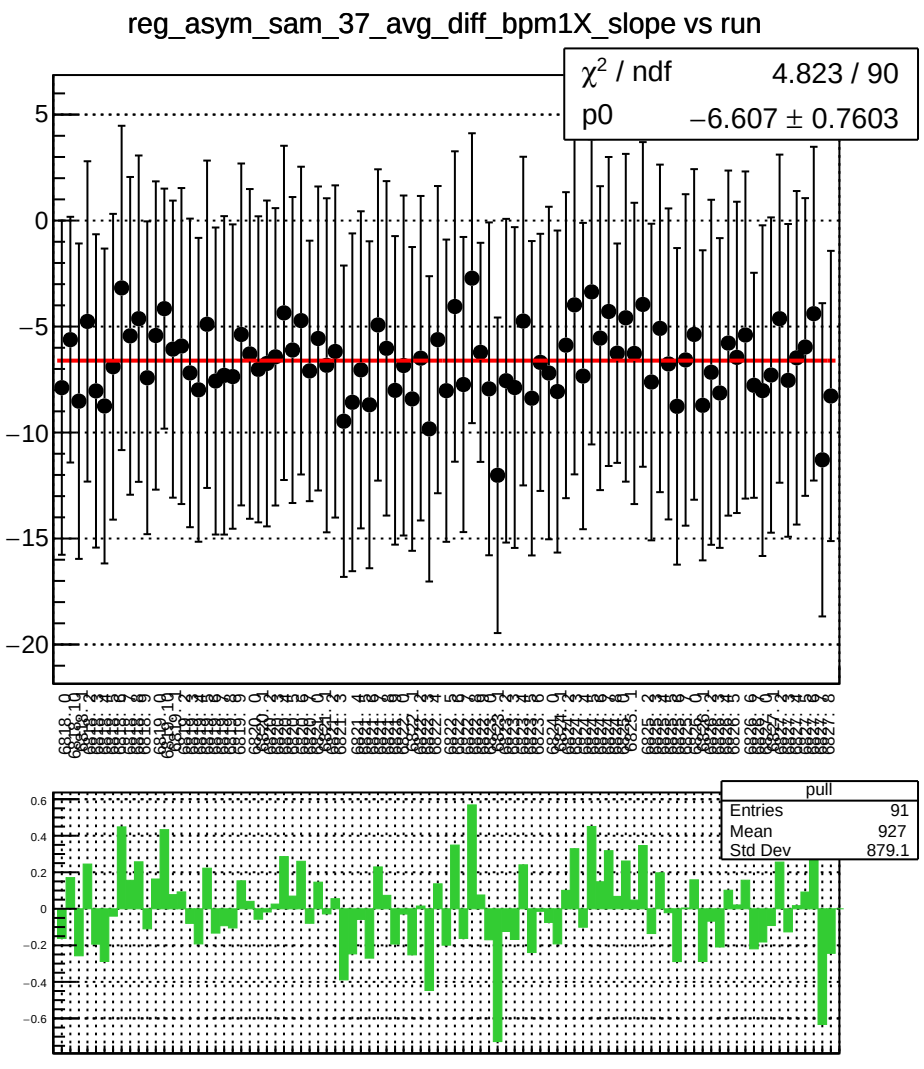

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.5 / 90
p0 −2.078 ± 0.6048
pull
Entries 91
Mean 82.85
Std Dev 86.07

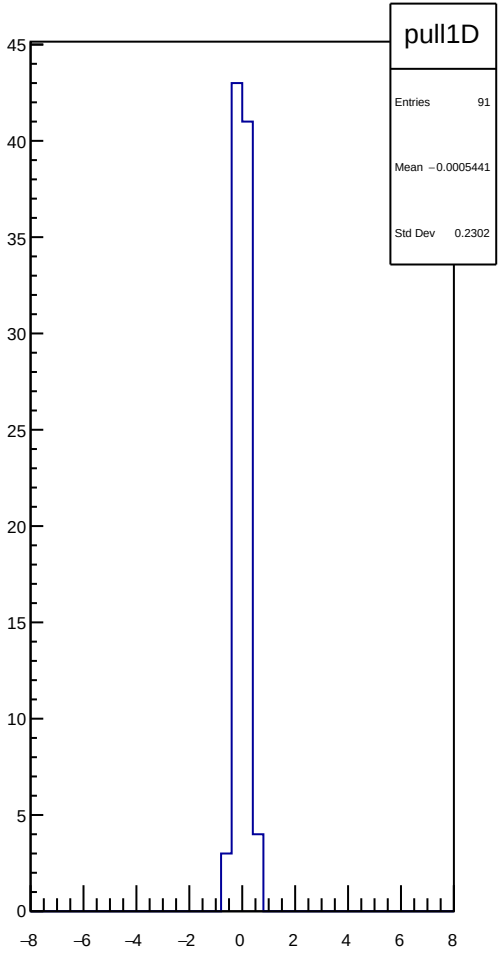

pull1D
Entries 91
Mean 0.004564
Std Dev 0.3396

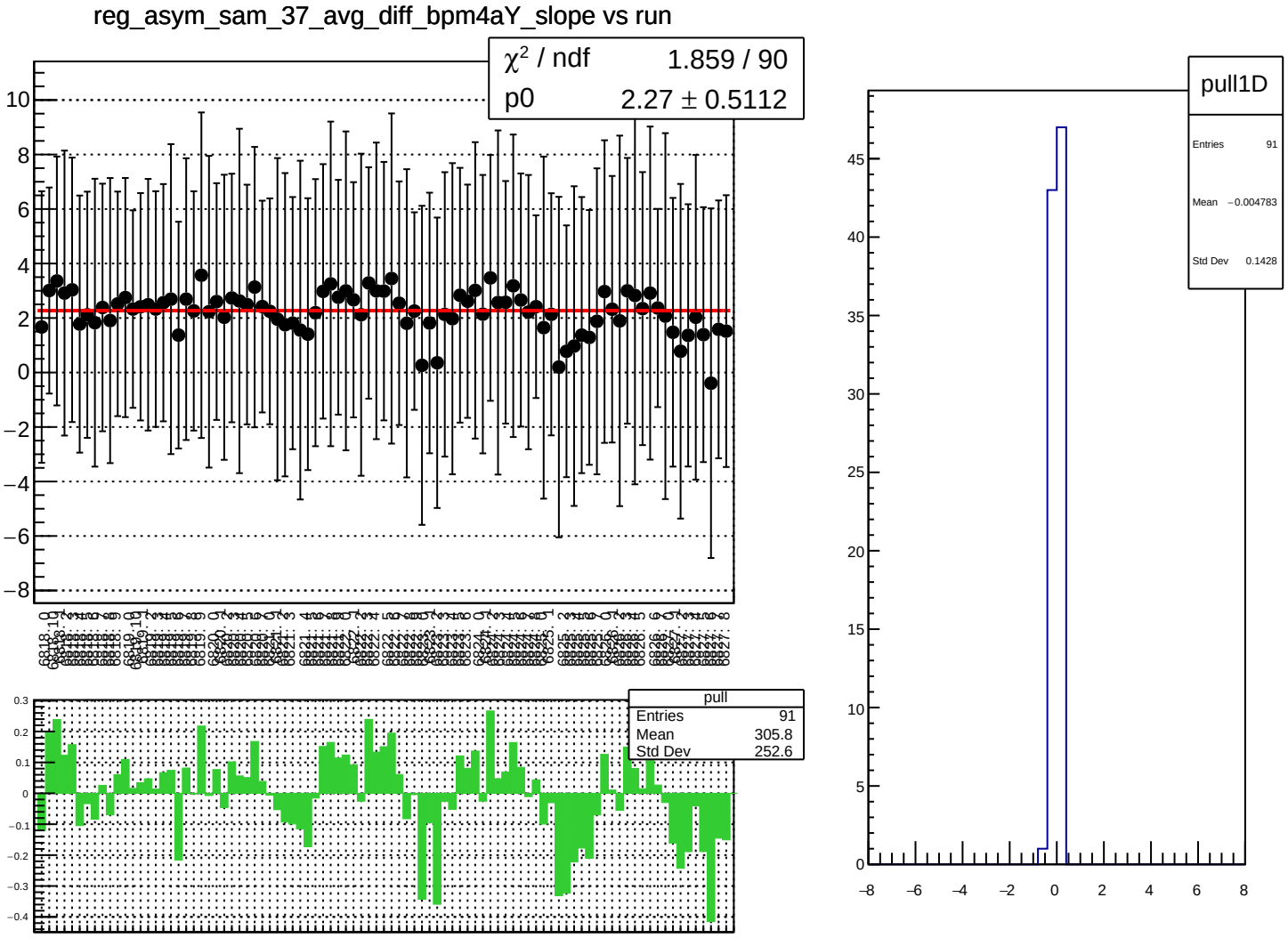

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.33 / 90
p0 −30.69 ± 0.5091
−20
−25
−30
−35
−40
pull
Entries 91
Mean 957.2
Std Dev 909.6
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.006867
Std Dev 0.4609
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

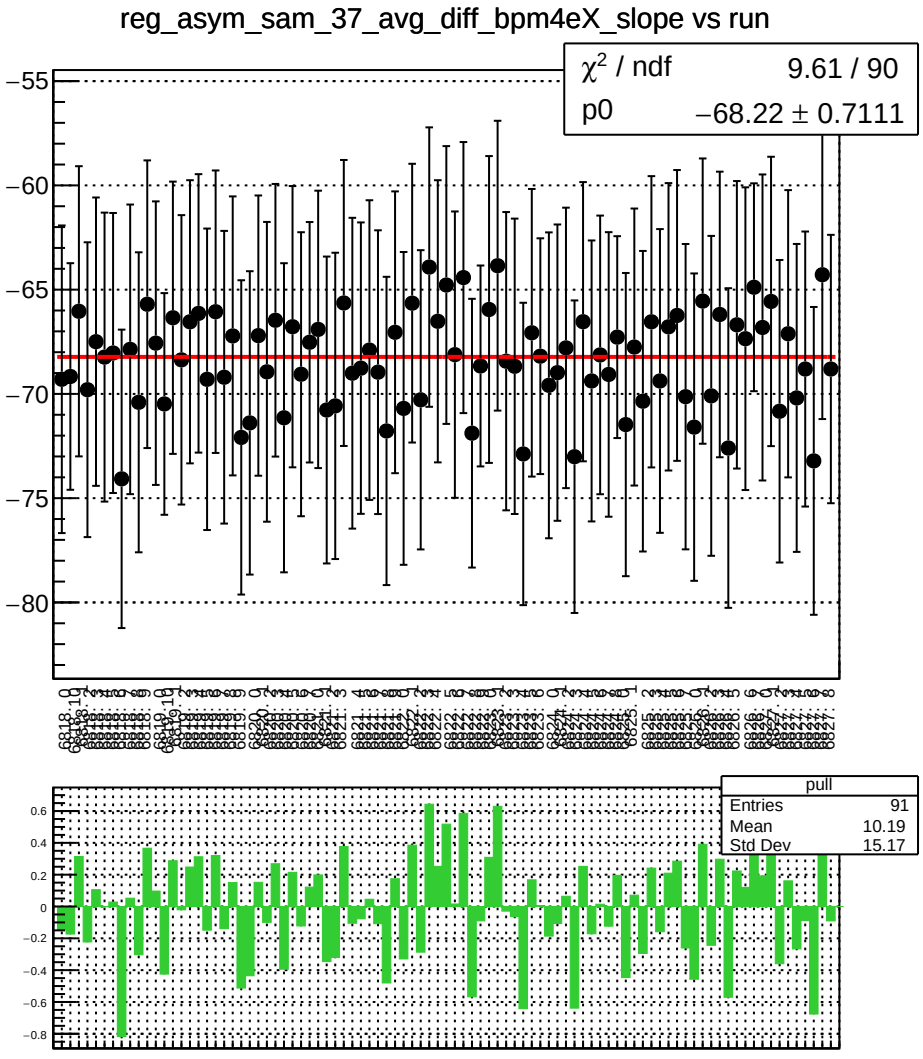

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 24.88 / 90
p0 0.2357 ± 0.02527
pull
Entries 91
Mean −314.4
Std Dev 356.3

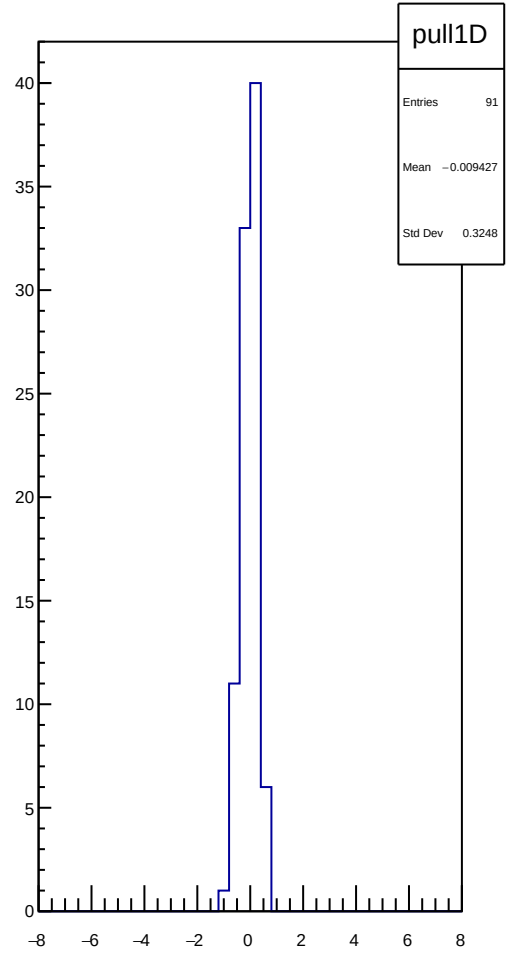

pull1D
Entries 91
Mean 0.02155
Std Dev 0.5225

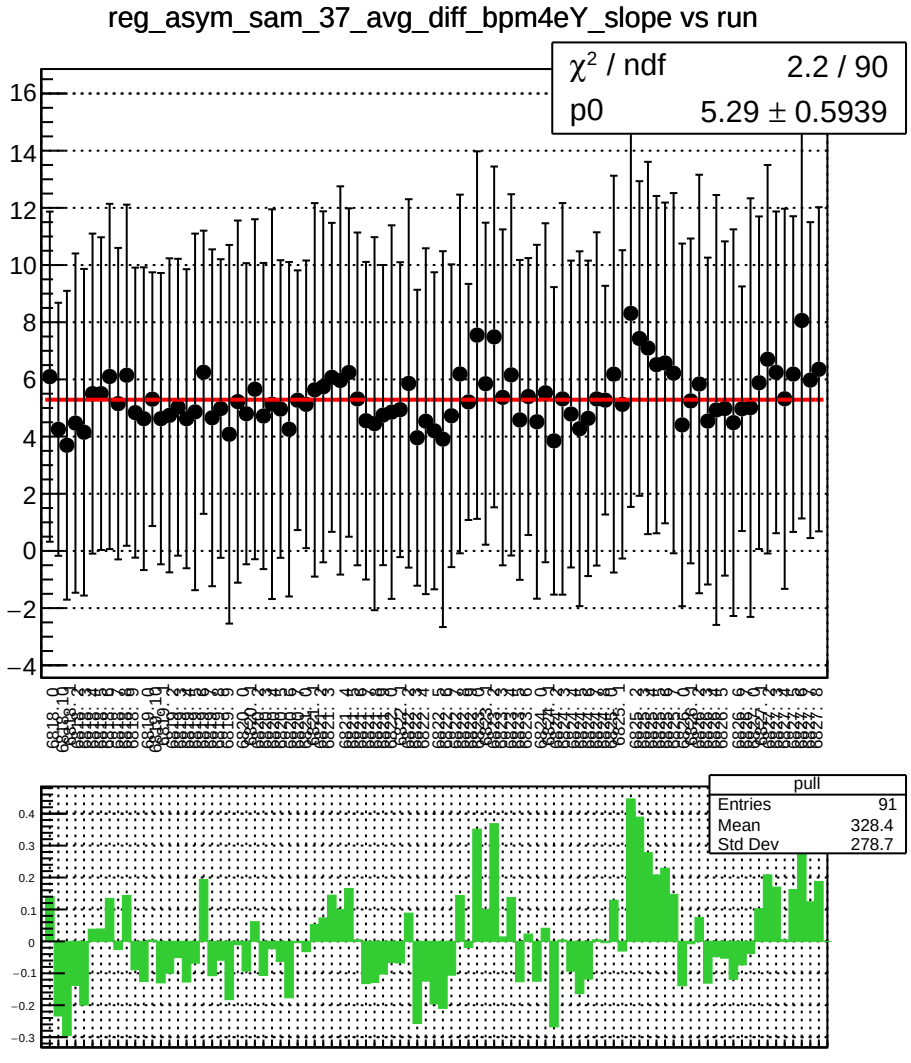

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 4.823 / 90
p0 −6.607 ± 0.7603
pull
Entries 91
Mean 927
Std Dev 879.1

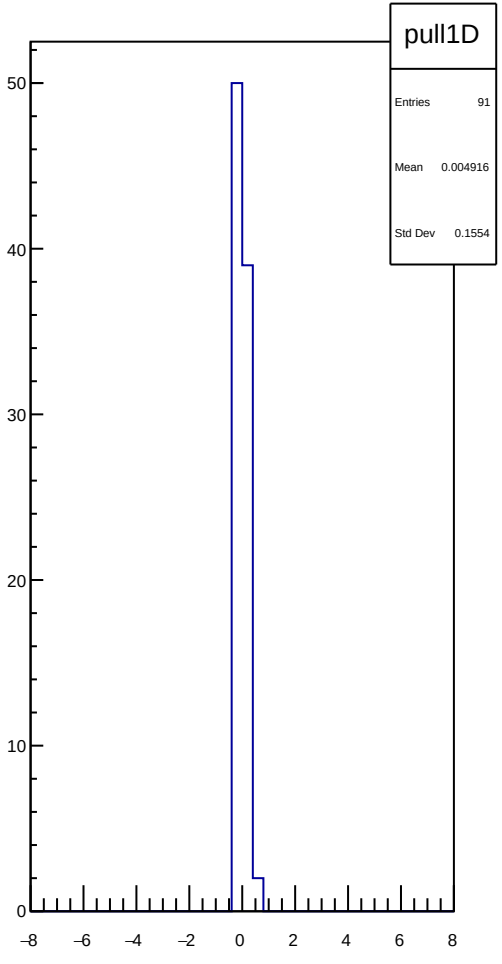

pull1D
Entries 91
Mean −0.0005441
Std Dev 0.2302

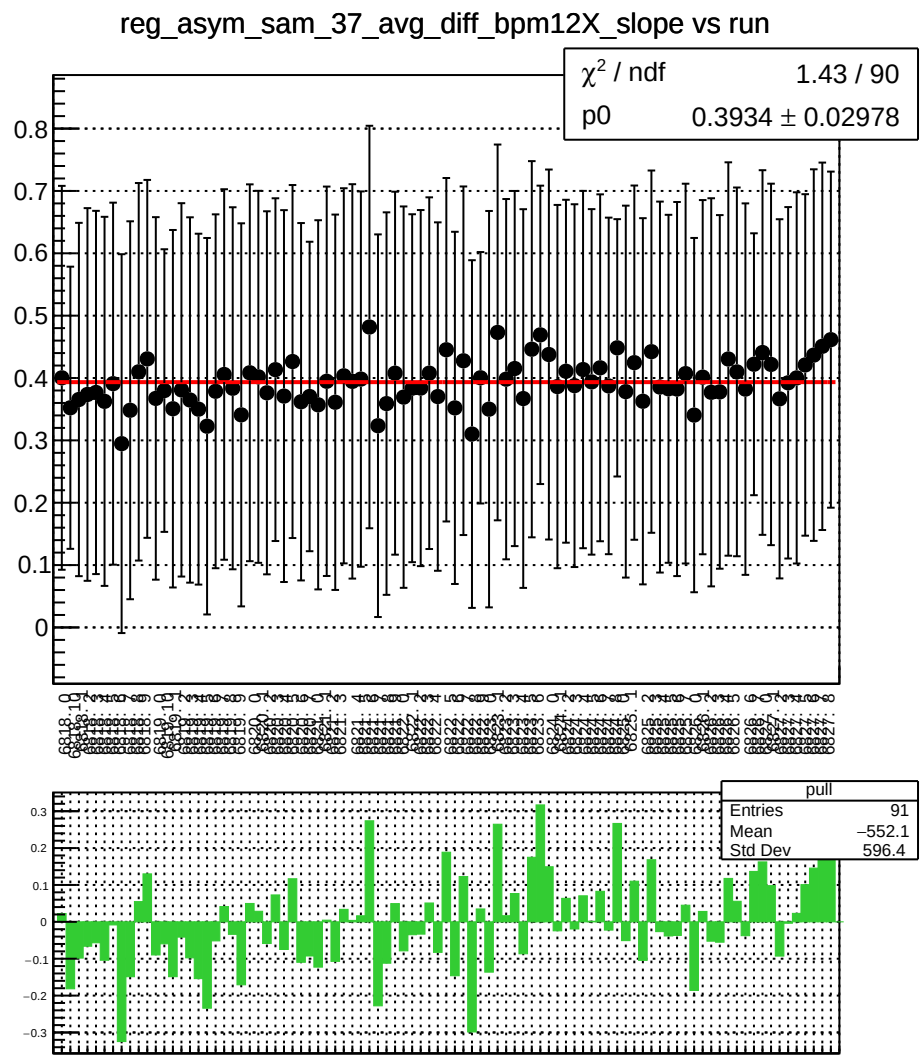

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.859 / 90
p0 2.27 ± 0.5112
pull
Entries 91
Mean 305.8
Std Dev 252.6
pull1D
Entries 91
Mean −0.004783
Std Dev 0.1428

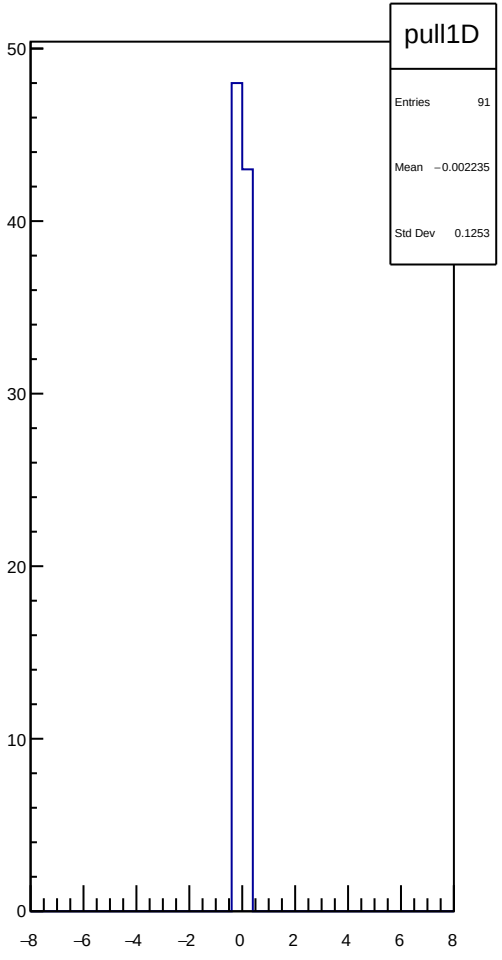

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.61 / 90
p0 −68.22 ± 0.7111
pull
Entries 91
Mean 10.19
Std Dev 15.17

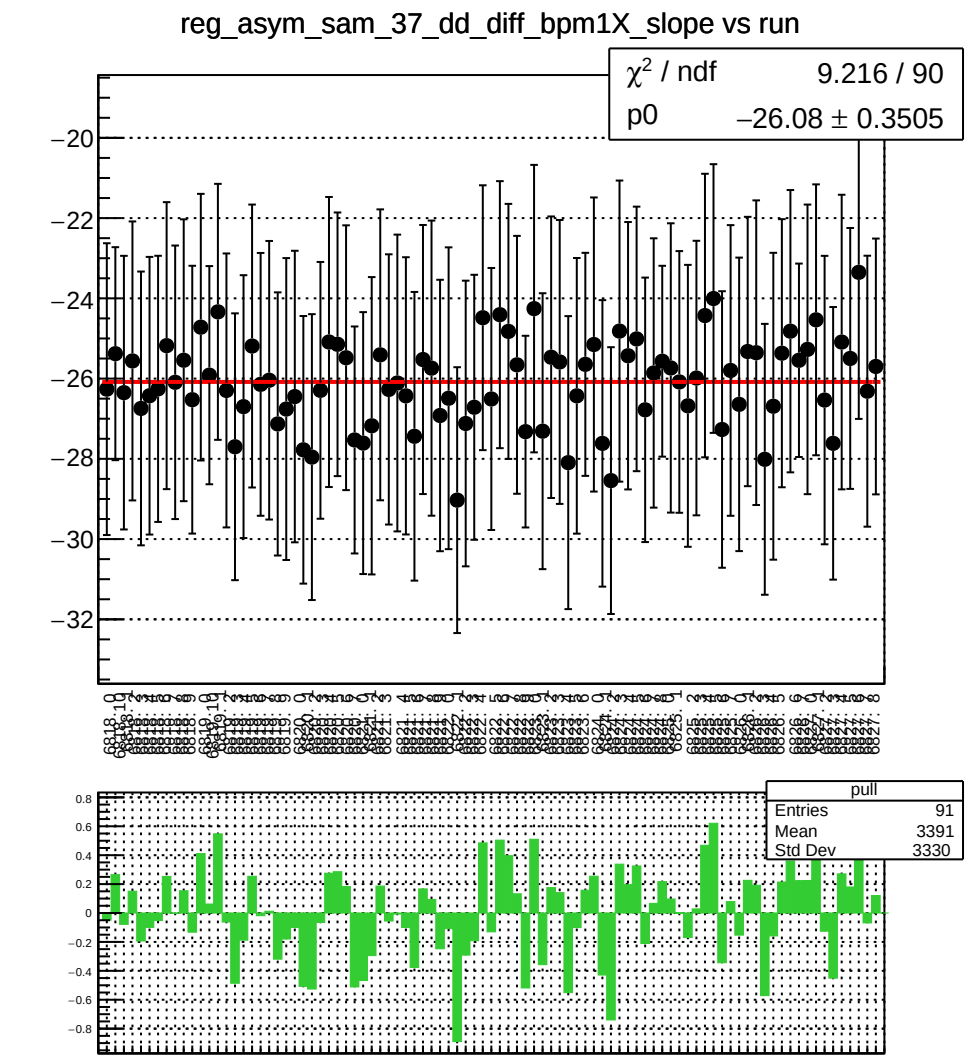

pull1D
Entries 91
Mean −0.009427
Std Dev 0.3248

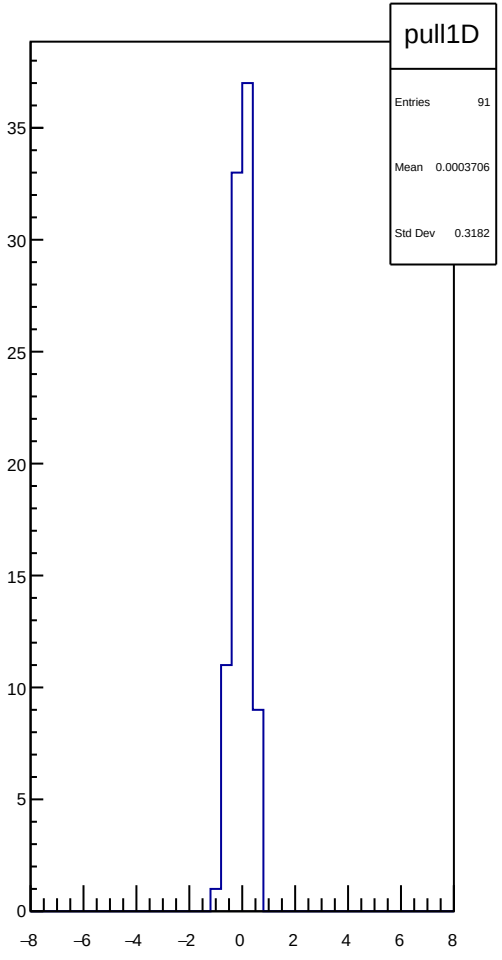

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.2 / 90
p0 5.29 ± 0.5939
pull
Entries 91
Mean 328.4
Std Dev 278.7

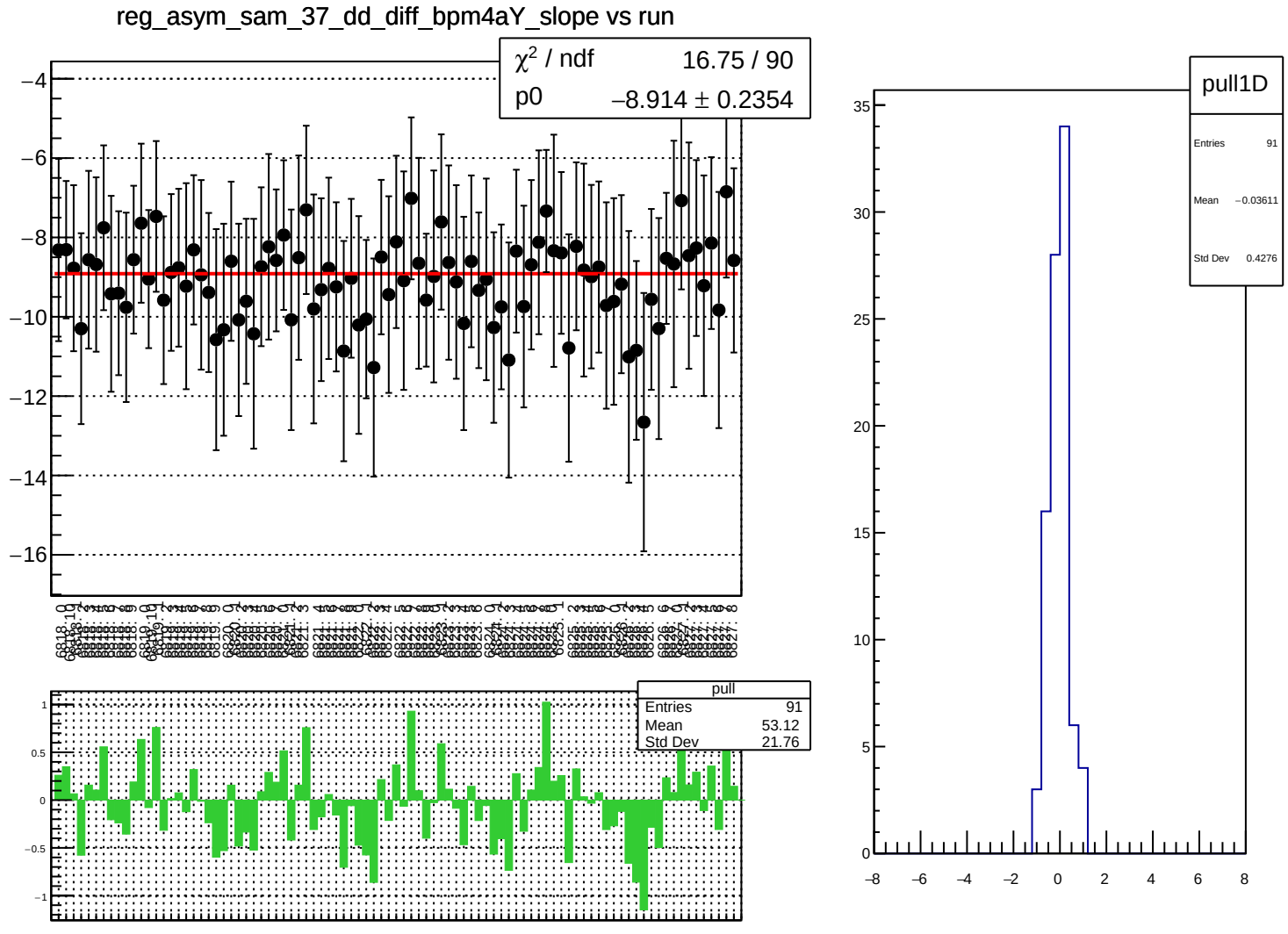

pull1D
Entries 91
Mean 0.004916
Std Dev 0.1554

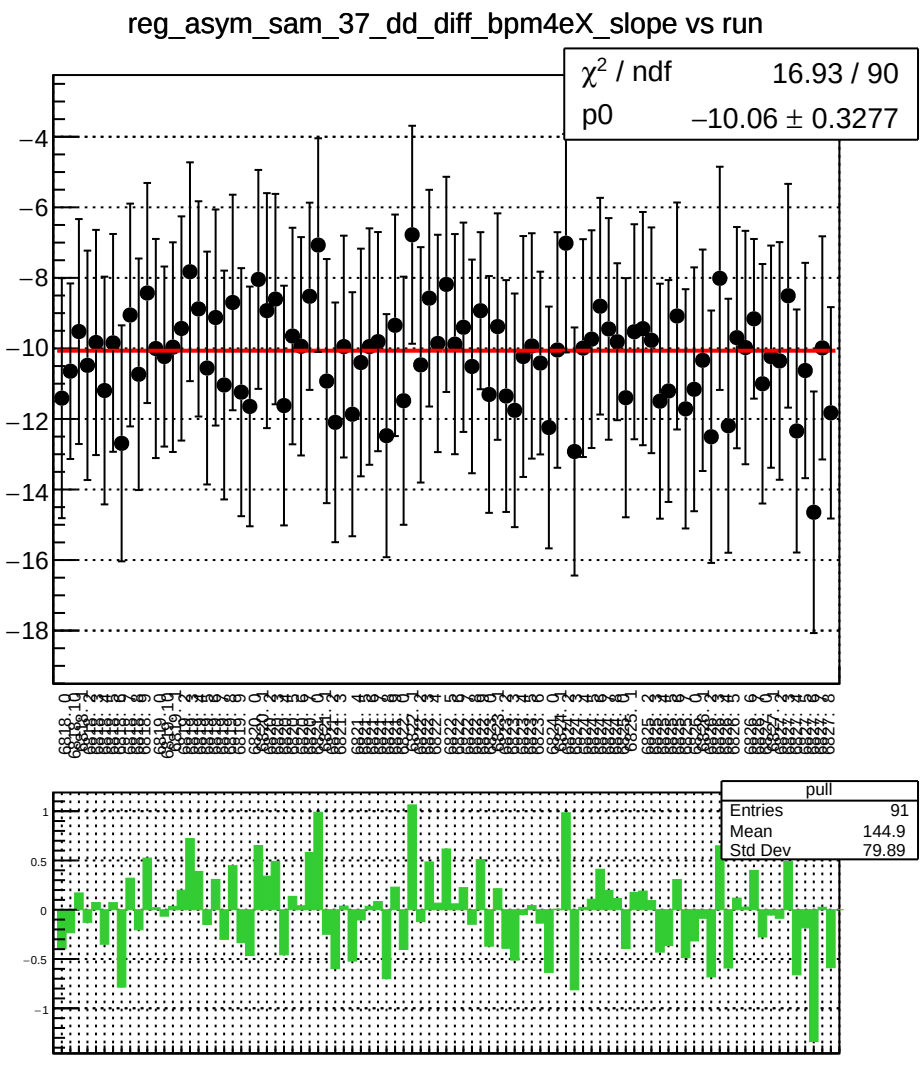

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.43 / 90
p0 0.3934 ± 0.02978
pull
Entries 91
Mean −552.1
Std Dev 596.4

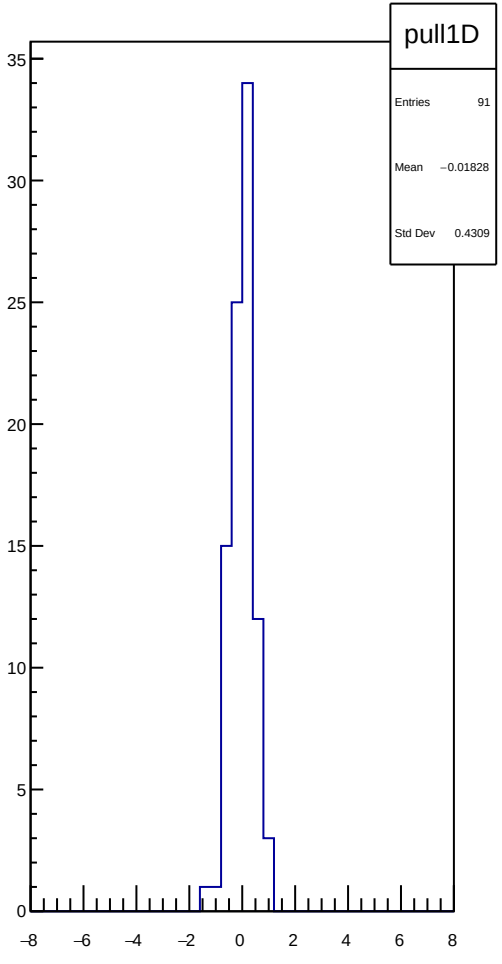

pull1D
Entries 91
Mean −0.002235
Std Dev 0.1253

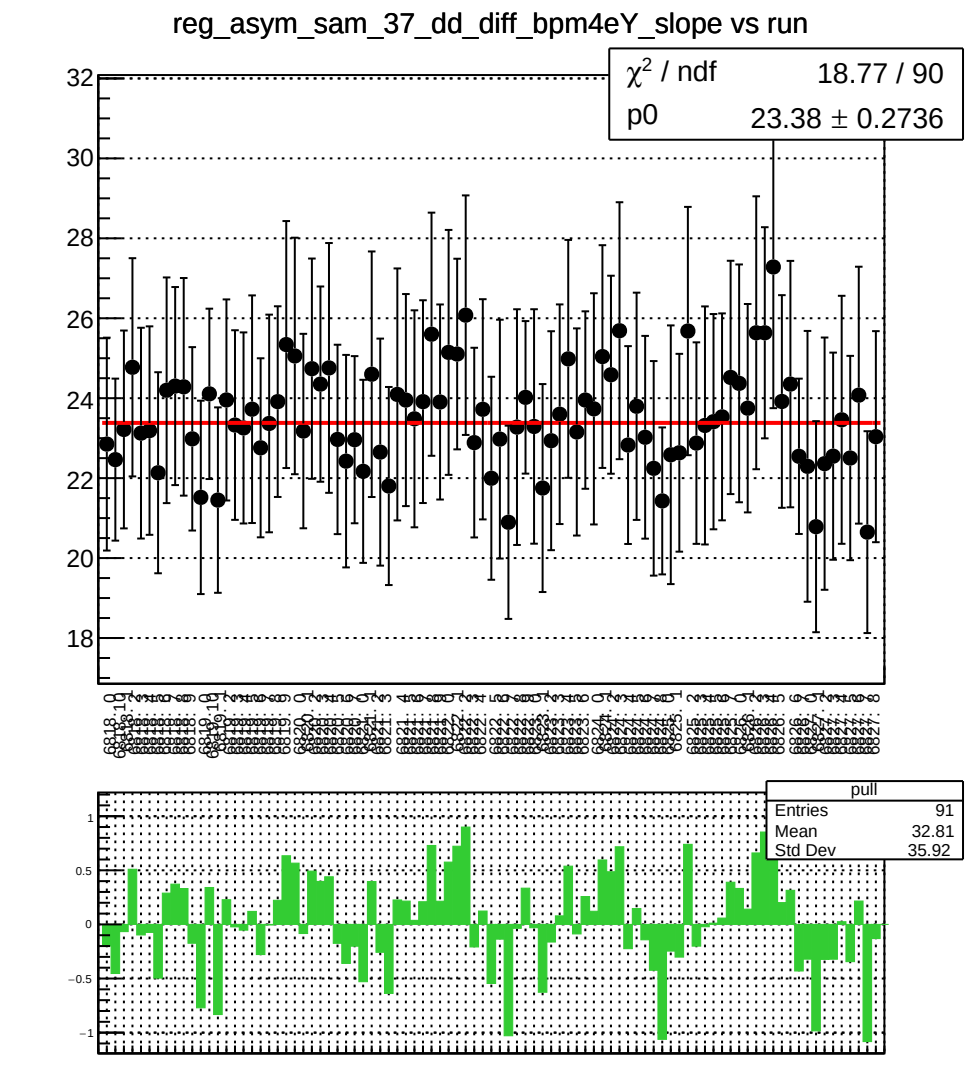

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 9.216 / 90
p0 −26.08 ± 0.3505
pull
Entries 91
Mean 3391
Std Dev 3330

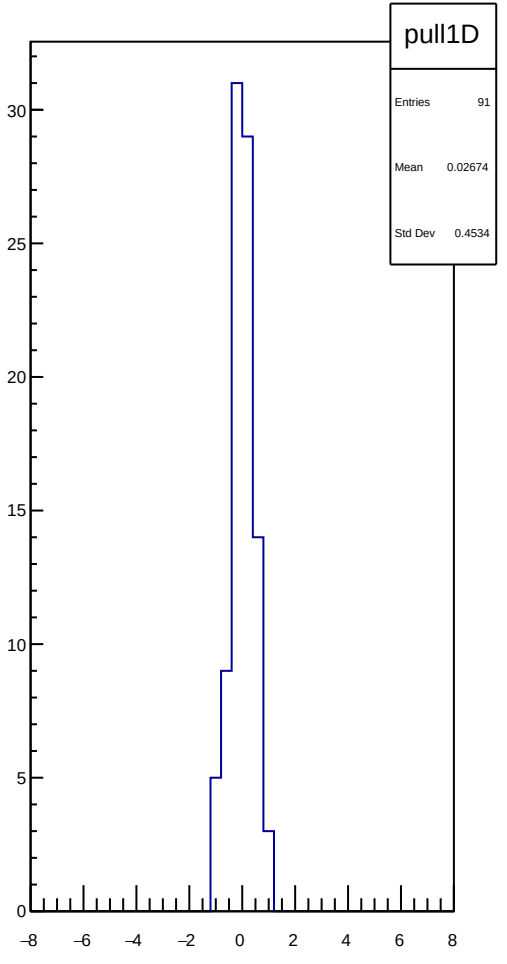

pull1D
Entries 91
Mean 0.0003706
Std Dev 0.3182

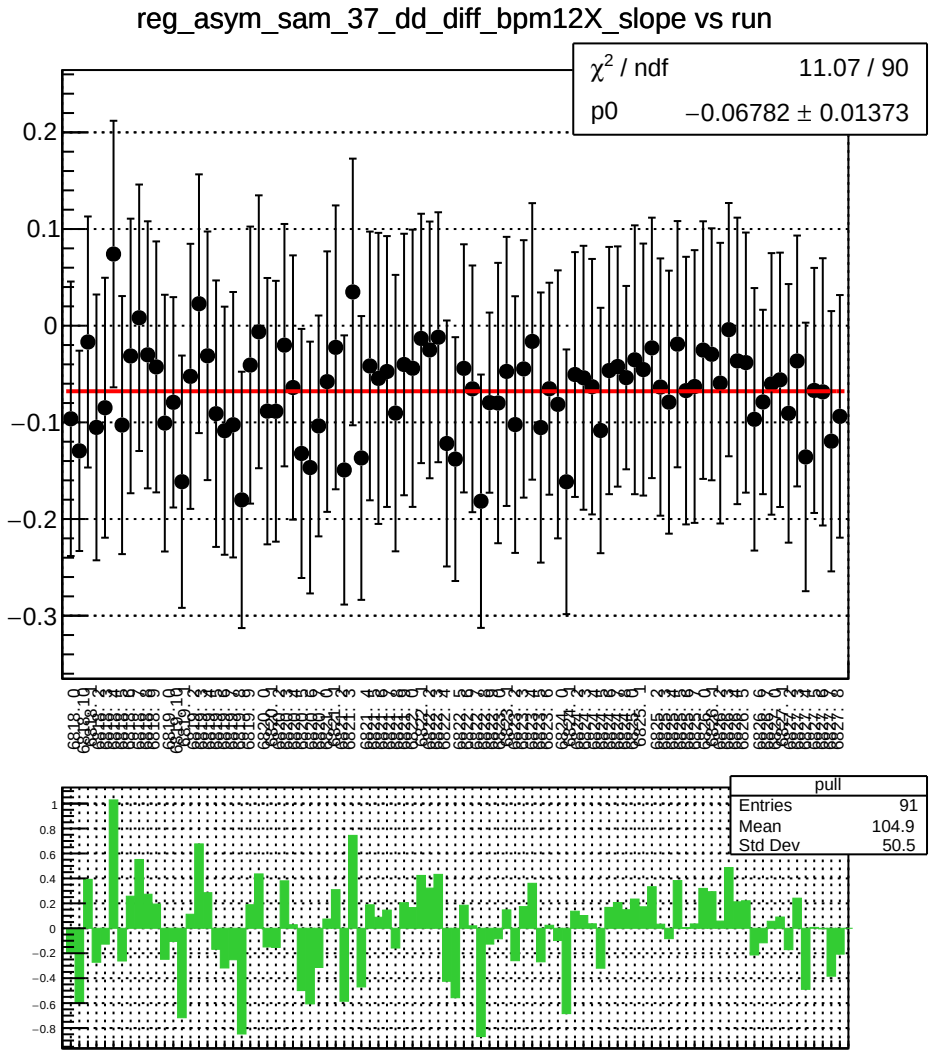

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.75 / 90
p0 −8.914 ± 0.2354
pull
Entries 91
Mean 53.12
Std Dev 21.76
pull1D
Entries 91
Mean −0.03611
Std Dev 0.4276

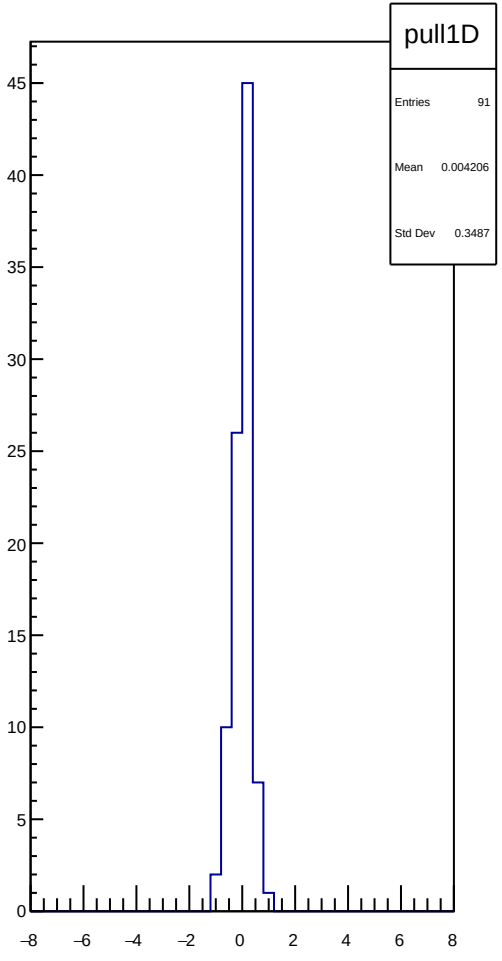

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.93 / 90
p0 −10.06 ± 0.3277
pull
Entries 91
Mean 144.9
Std Dev 79.89

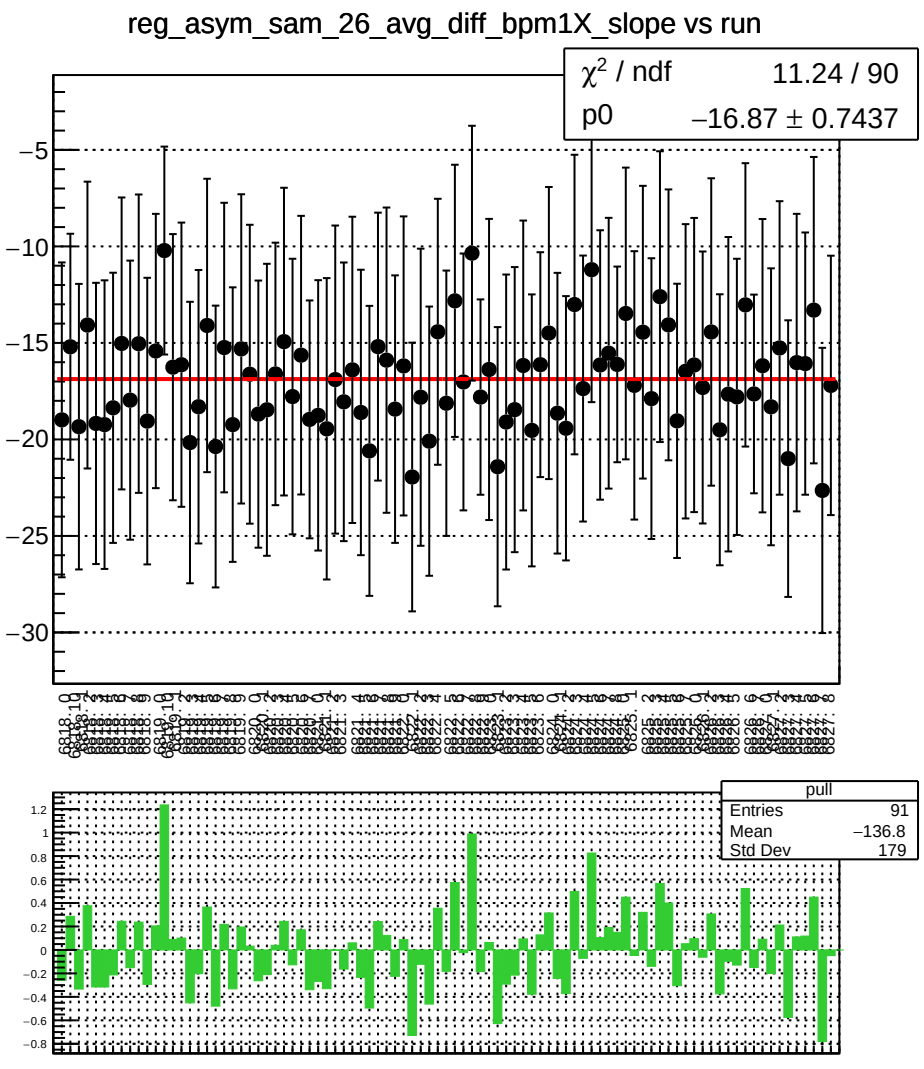

pull1D
Entries 91
Mean −0.01828
Std Dev 0.4309

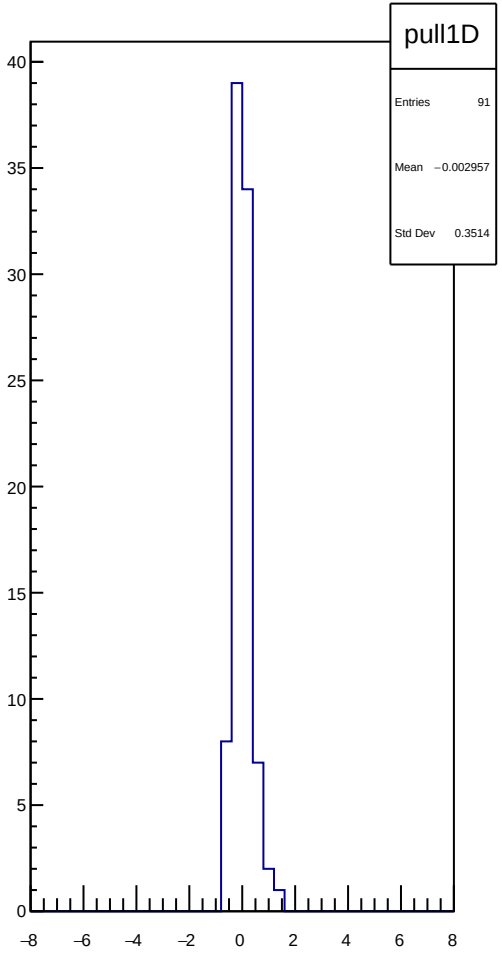

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.77 / 90
p0 23.38 ± 0.2736
pull
Entries 91
Mean 32.81
Std Dev 35.92

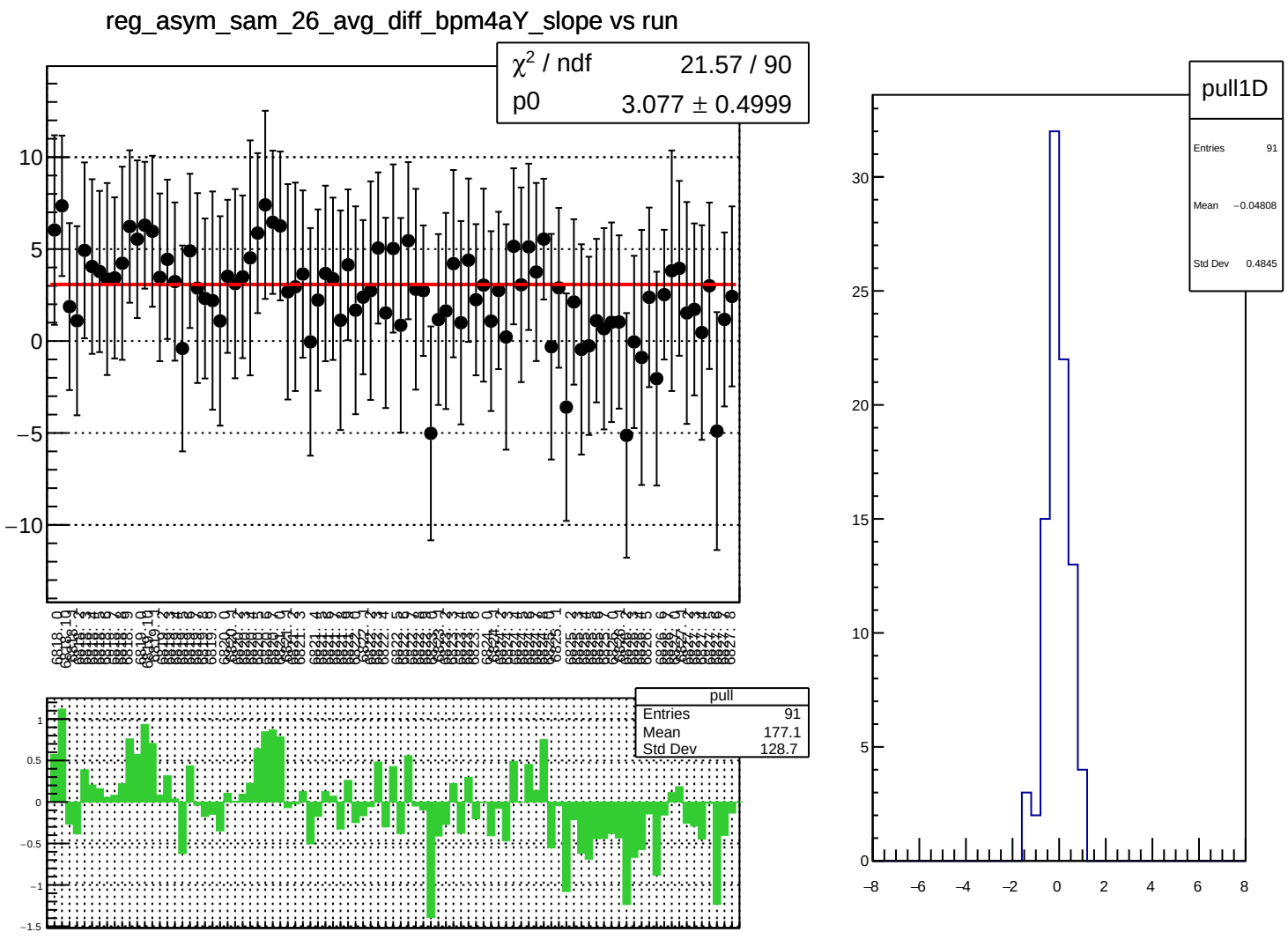

pull1D
Entries 91
Mean 0.02674
Std Dev 0.4534

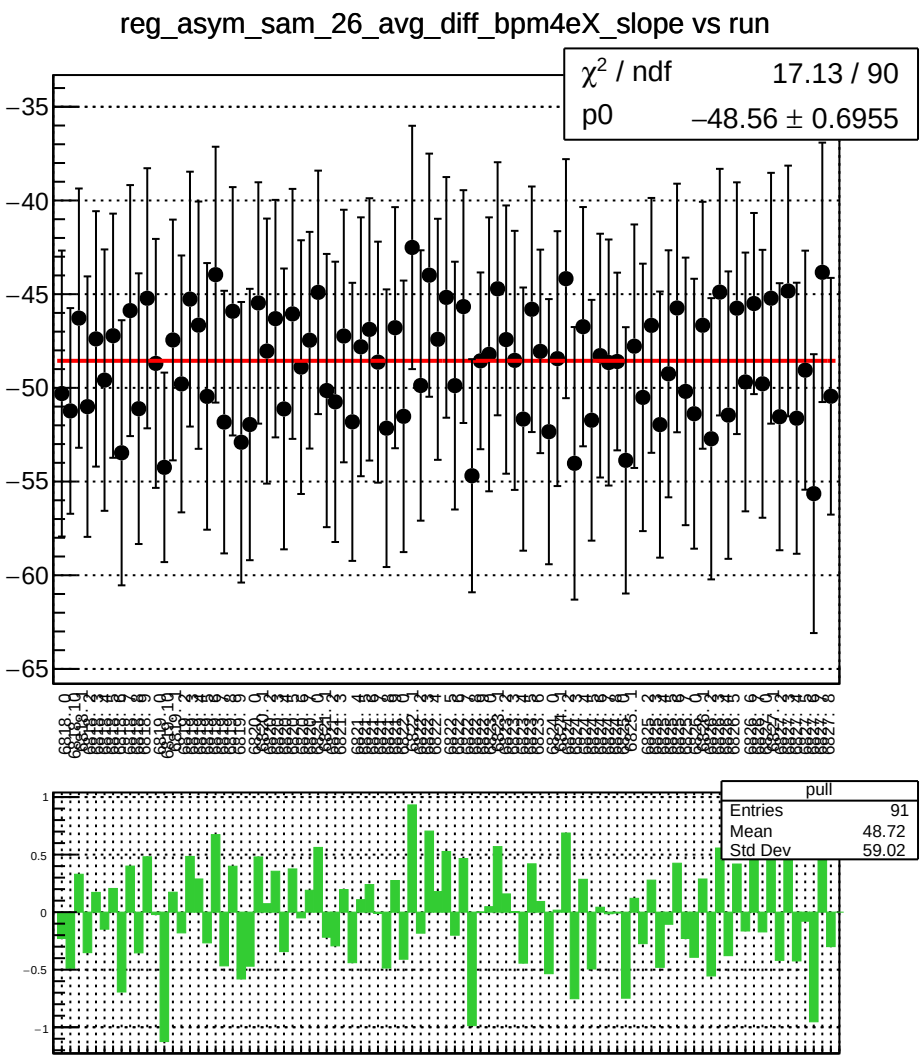

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 11.07 / 90
p0 −0.06782 ± 0.01373
pull
Entries 91
Mean 104.9
Std Dev 50.5

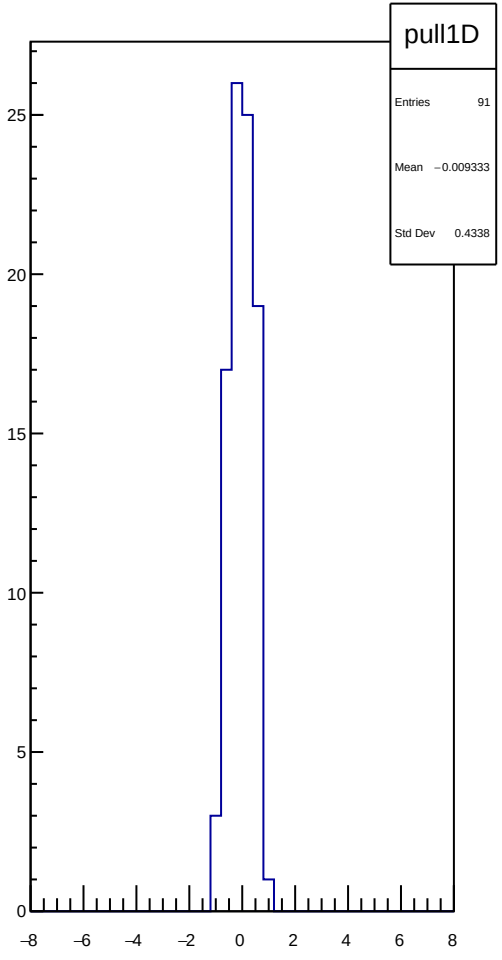

pull1D
Entries 91
Mean 0.004206
Std Dev 0.3487

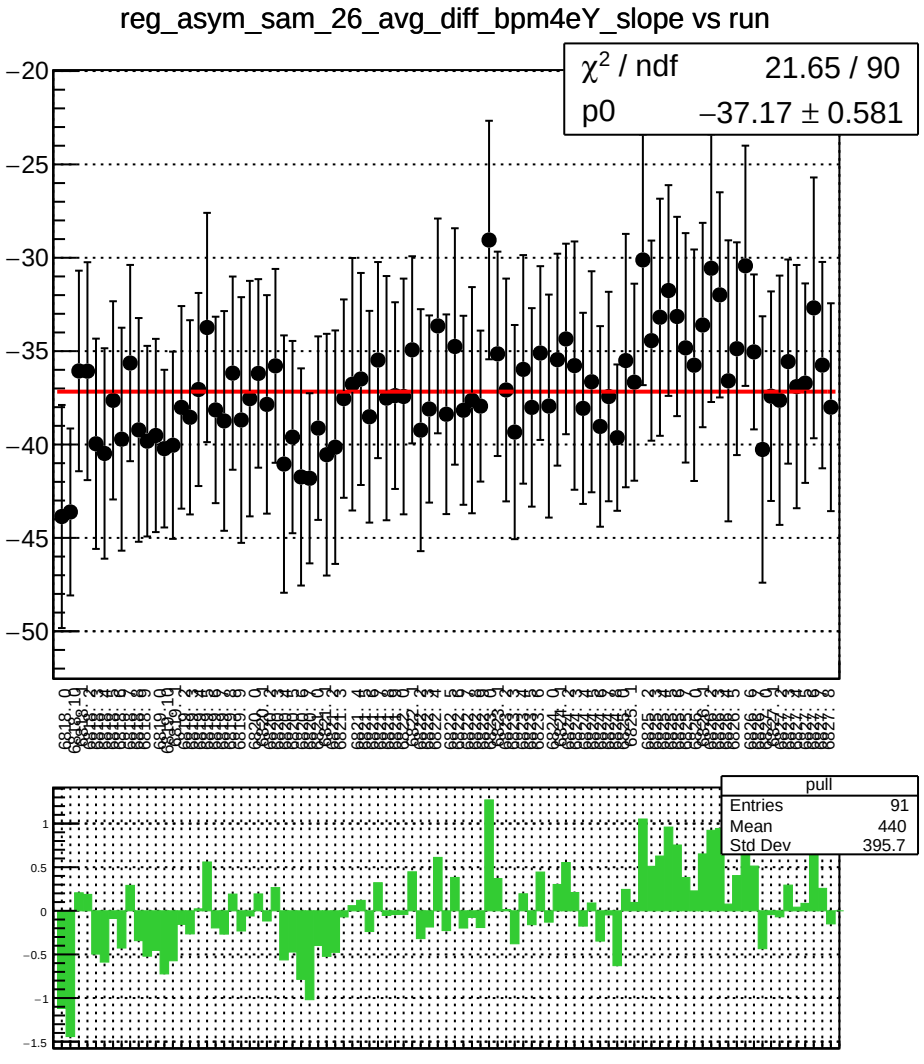

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 11.24 / 90
p0 −16.87 ± 0.7437
pull
Entries 91
Mean −136.8
Std Dev 179

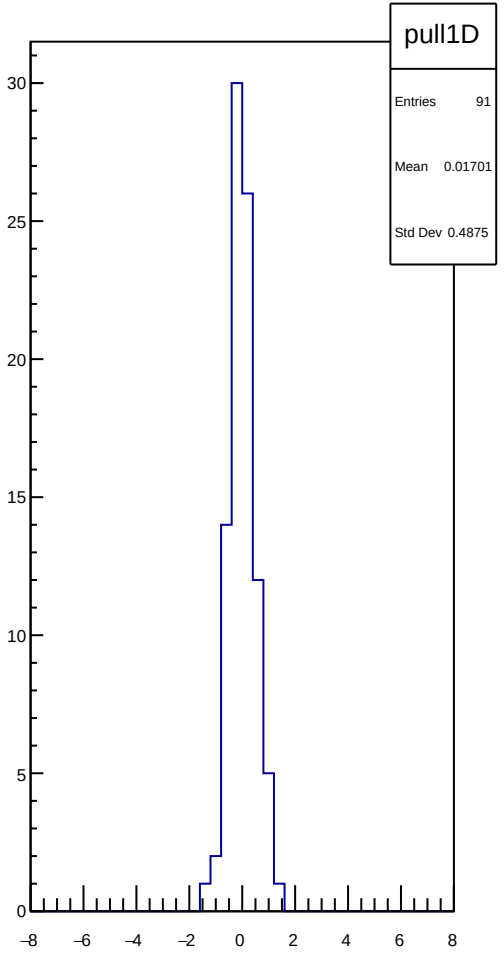

pull1D
Entries 91
Mean −0.002957
Std Dev 0.3514

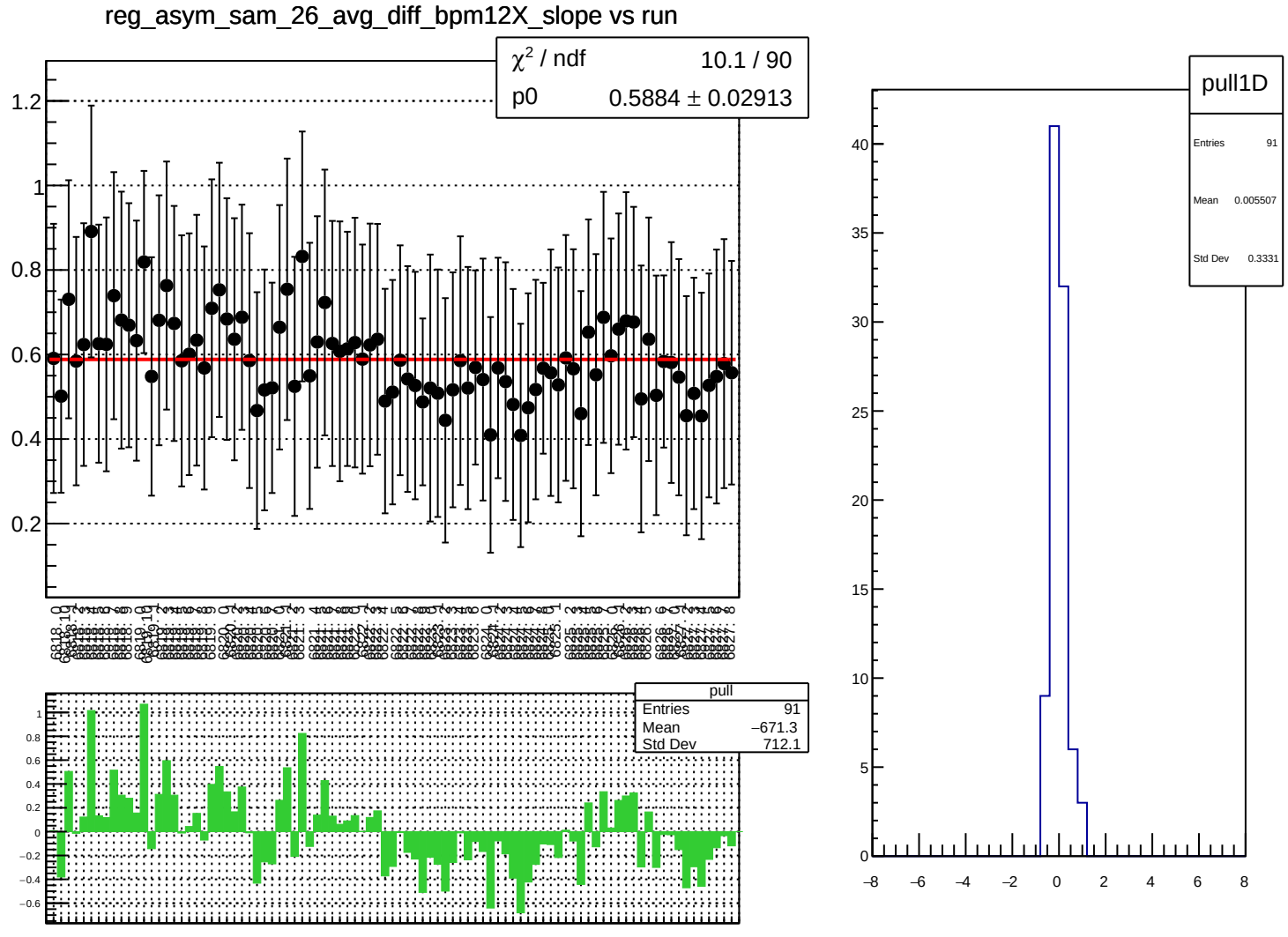

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.57 / 90
p0 3.077 ± 0.4999
pull
Entries 91
Mean 177.1
Std Dev 128.7
pull1D
Entries 91
Mean −0.04808
Std Dev 0.4845

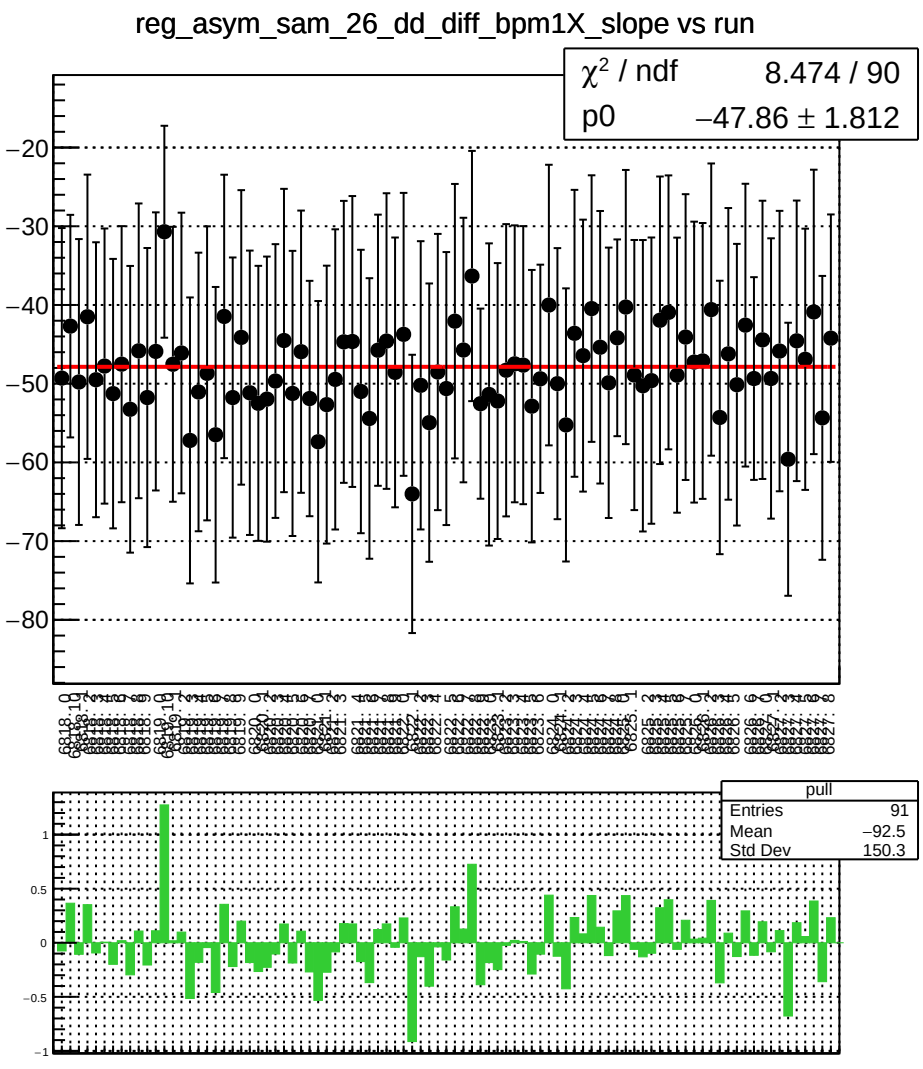

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.13 / 90
p0 −48.56 ± 0.6955
pull
Entries 91
Mean 48.72
Std Dev 59.02

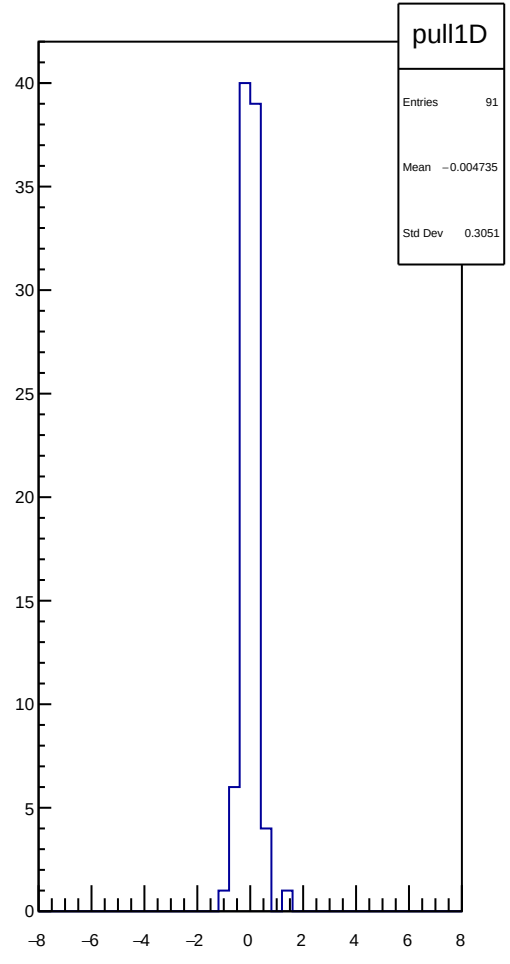

pull1D
Entries 91
Mean −0.009333
Std Dev 0.4338

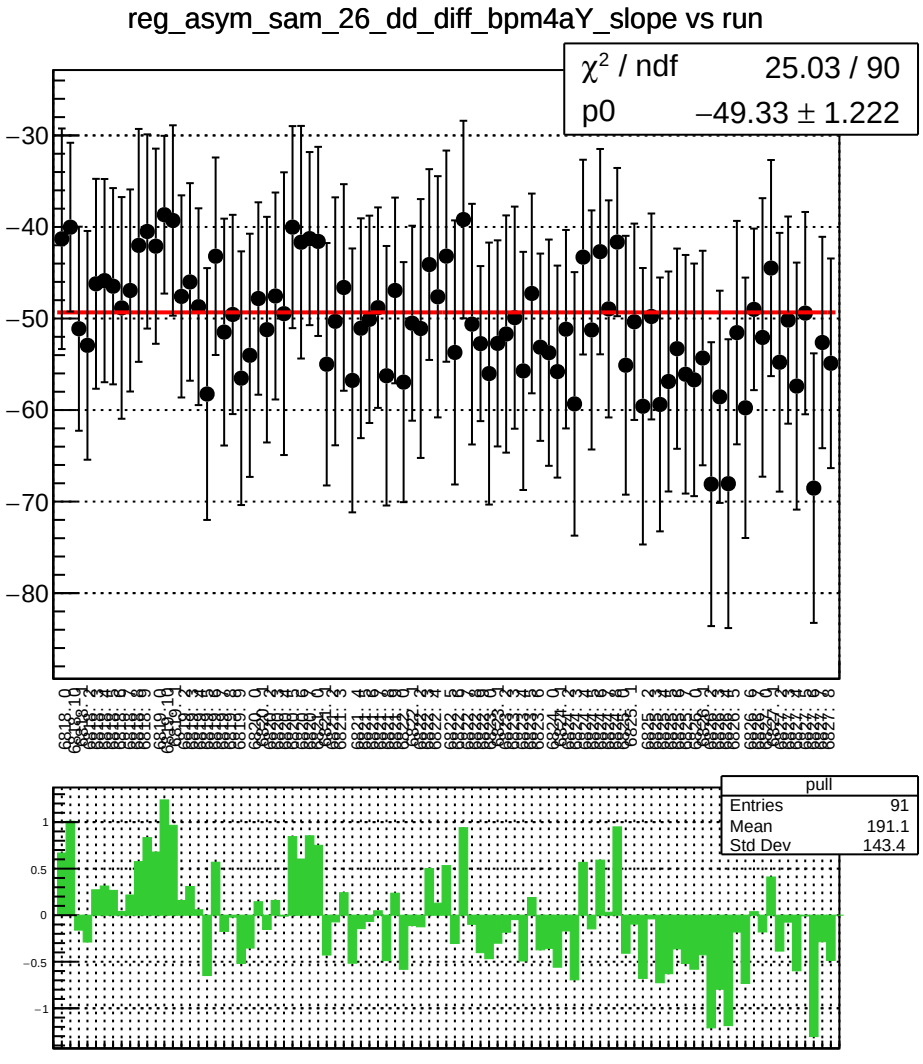

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.65 / 90
p0 −37.17 ± 0.581
pull
Entries 91
Mean 440
Std Dev 395.7

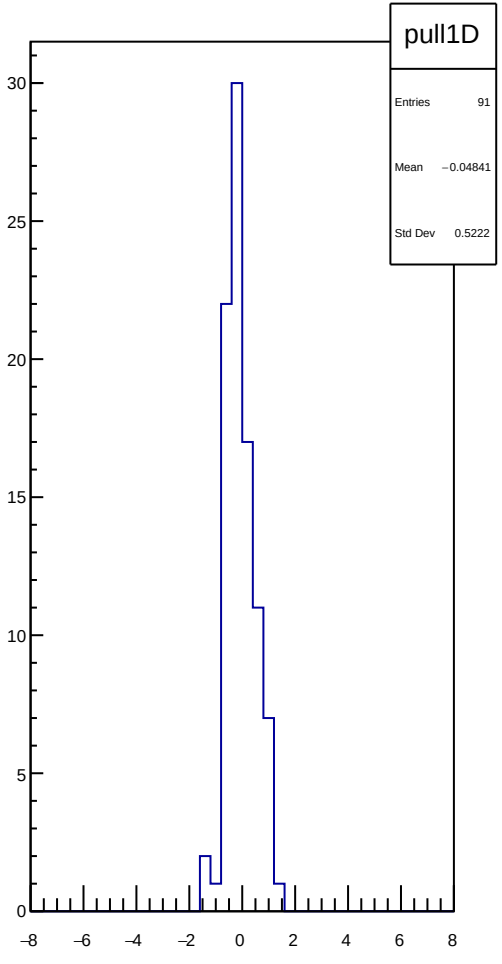

pull1D
Entries 91
Mean 0.01701
Std Dev 0.4875

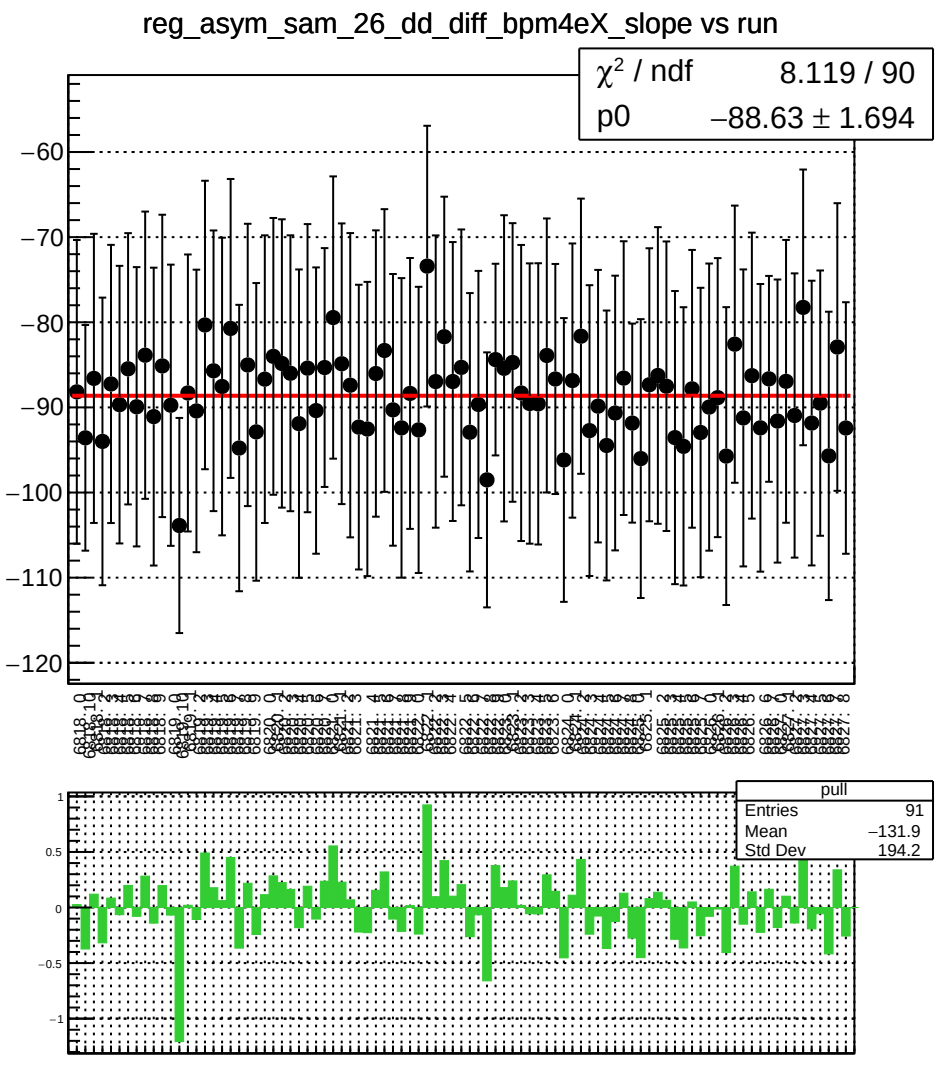

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 10.1 / 90
p0 0.5884 ± 0.02913
pull
Entries 91
Mean −671.3
Std Dev 712.1
pull1D
Entries 91
Mean 0.005507
Std Dev 0.3331

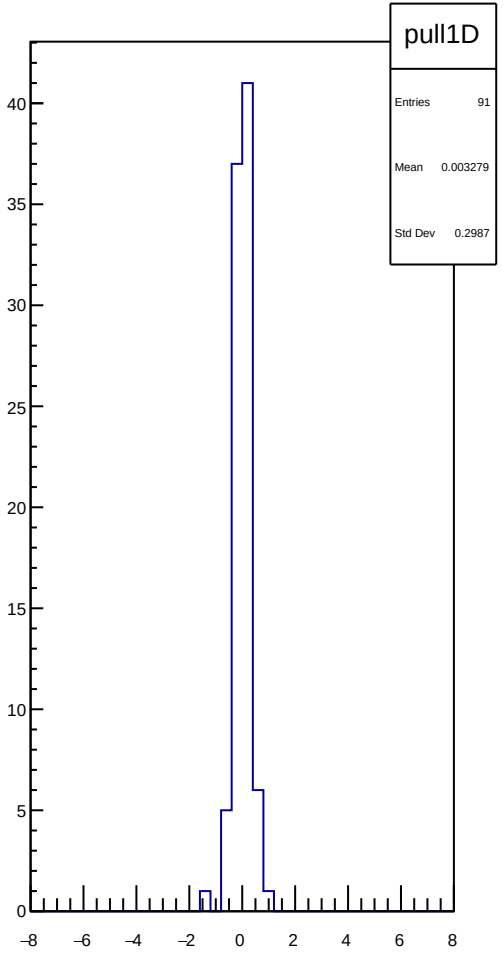

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 8.474 / 90
p0 −47.86 ± 1.812
pull
Entries 91
Mean −92.5
Std Dev 150.3

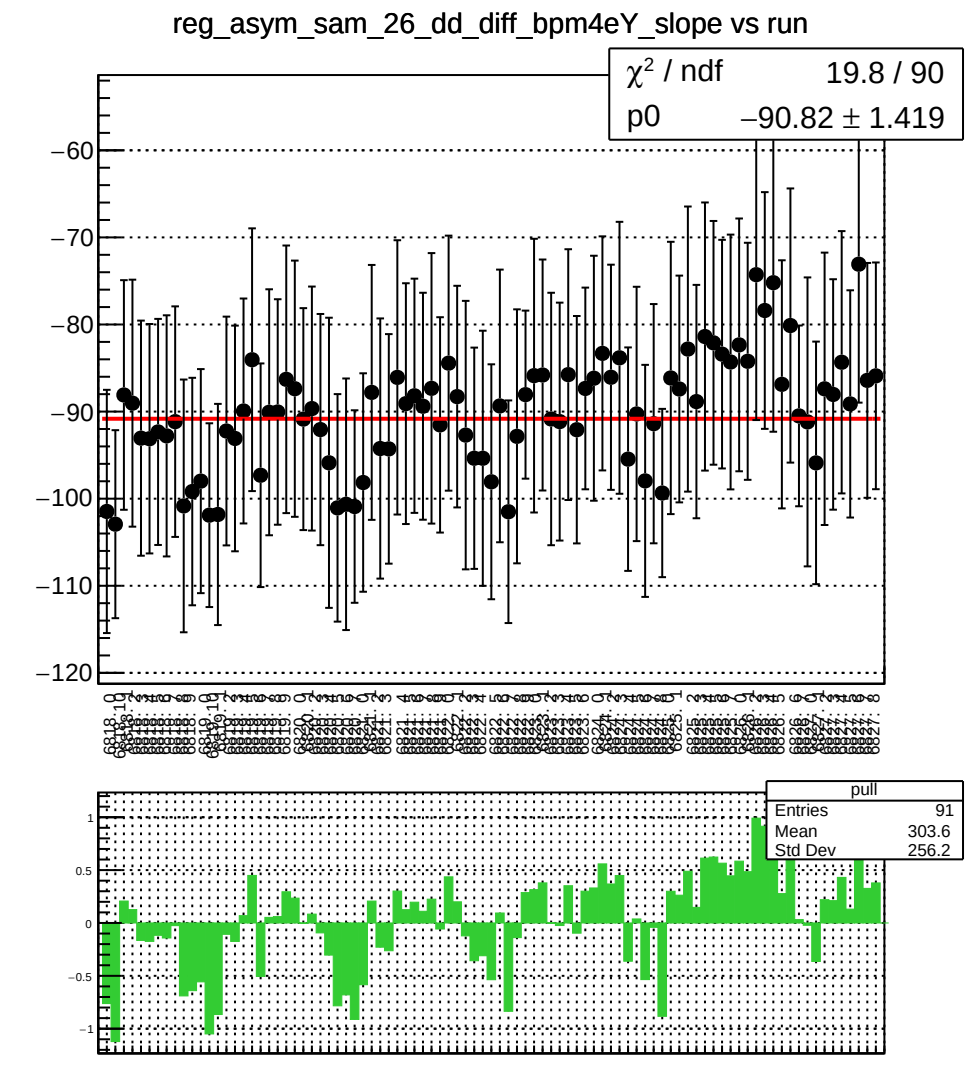

pull1D
Entries 91
Mean −0.004735
Std Dev 0.3051

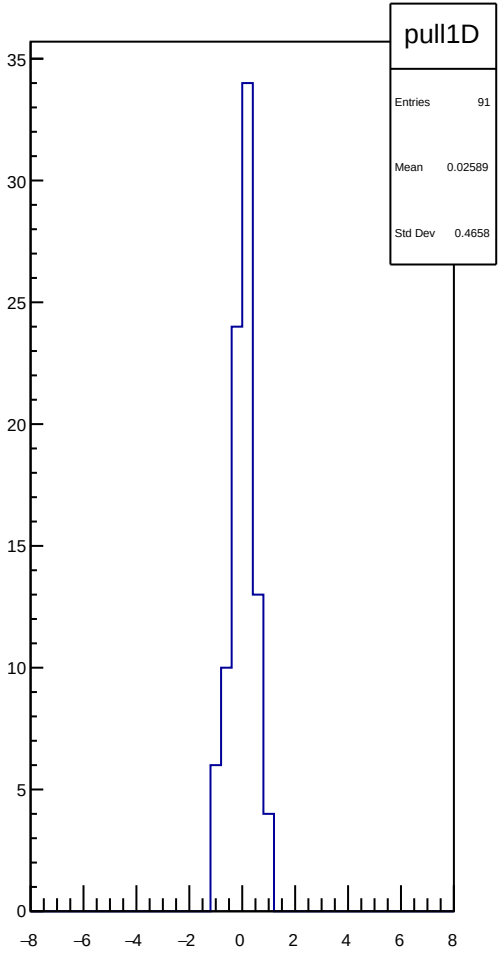

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.03 / 90
p0 −49.33 ± 1.222
pull
Entries 91
Mean 191.1
Std Dev 143.4

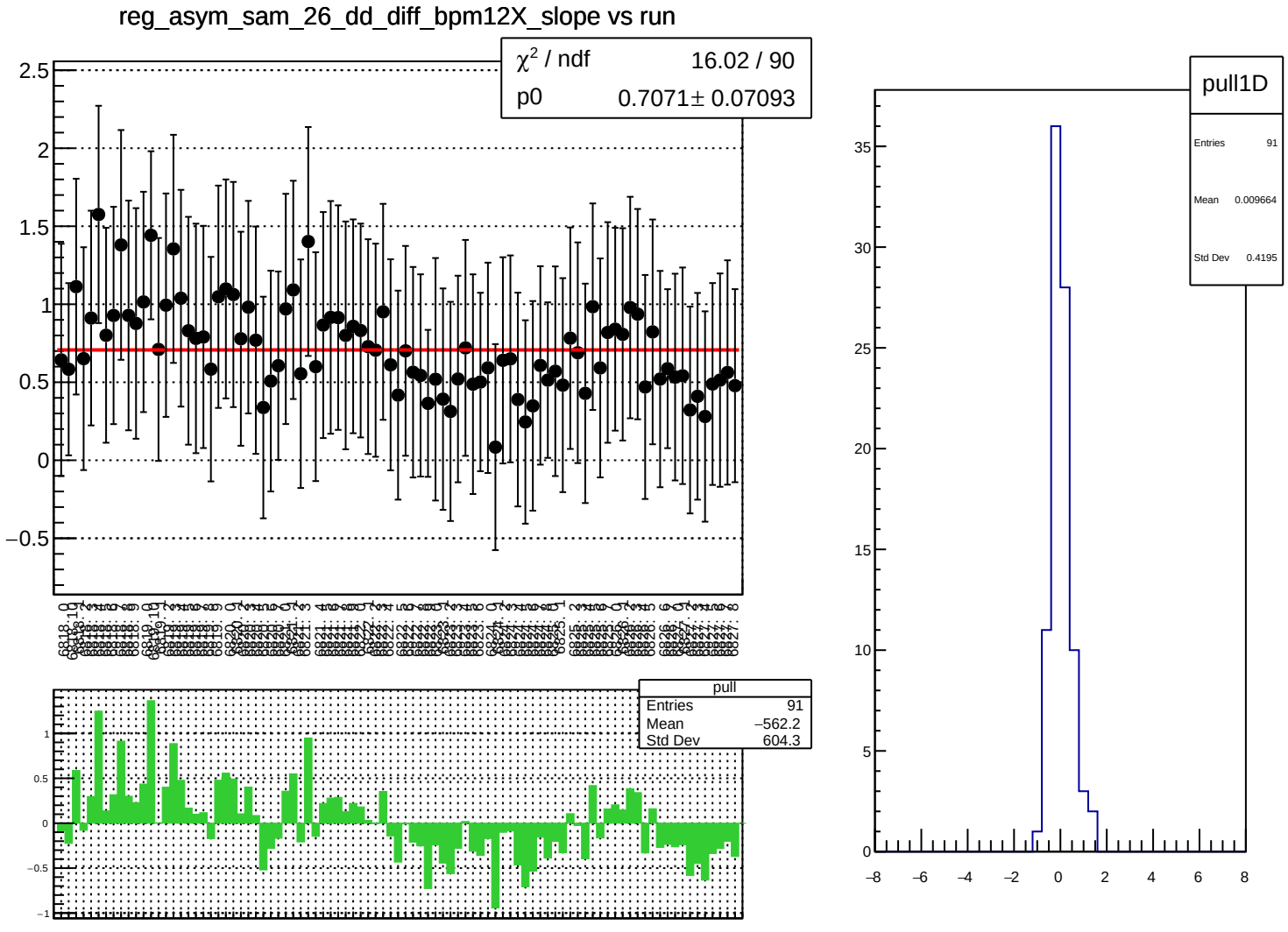

pull1D
Entries 91
Mean −0.04841
Std Dev 0.5222

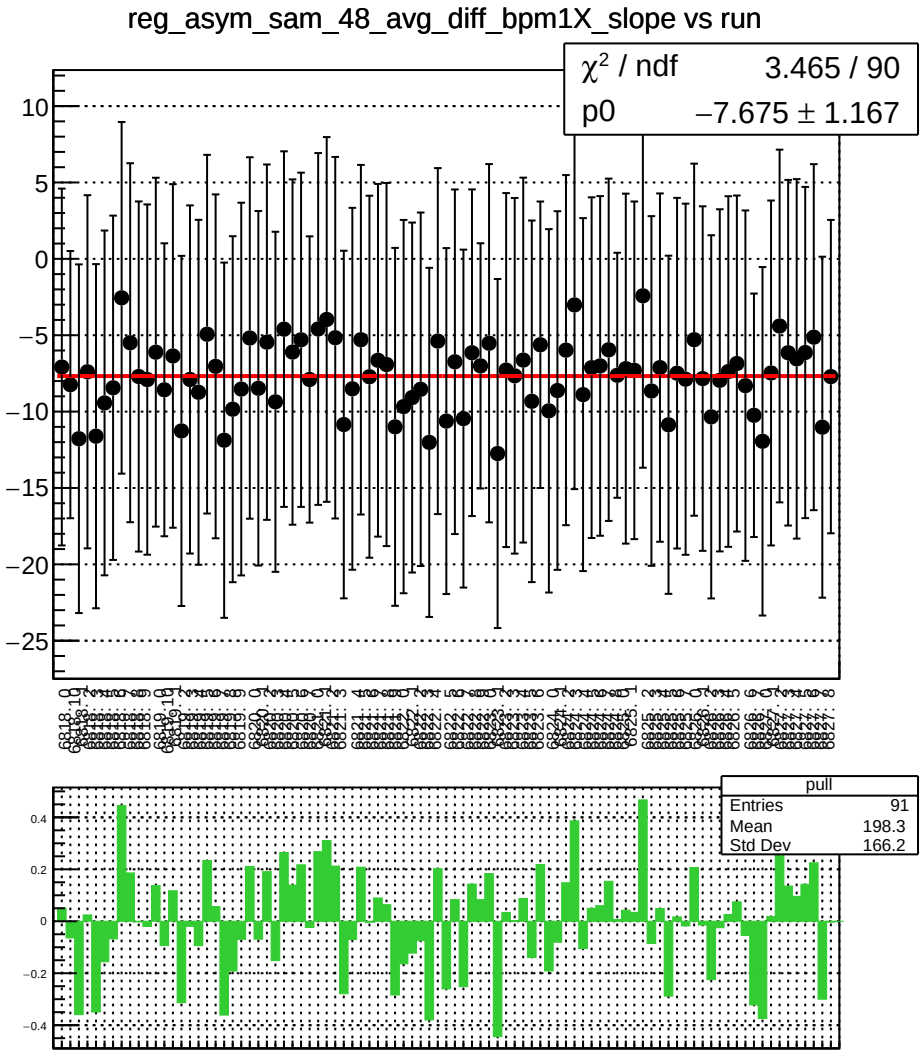

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.119 / 90
p0 −88.63 ± 1.694
pull
Entries 91
Mean −131.9
Std Dev 194.2

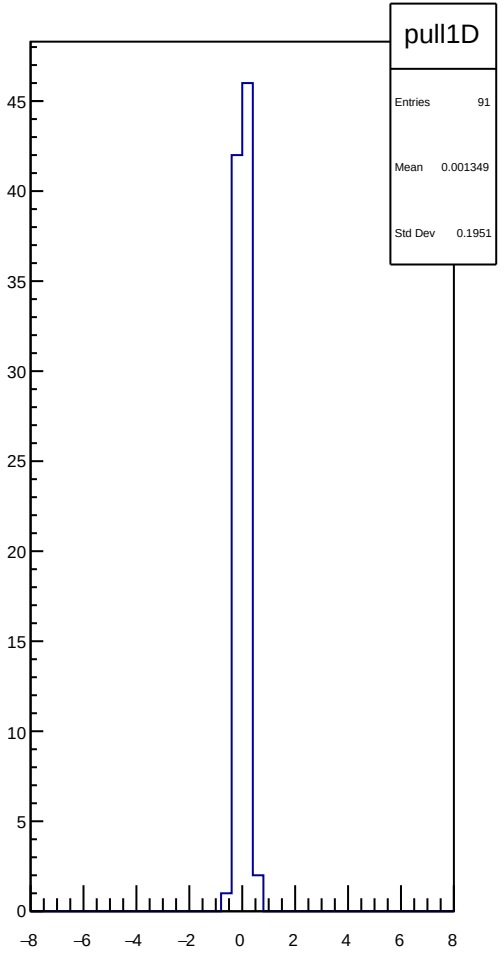

pull1D
Entries 91
Mean 0.003279
Std Dev 0.2987

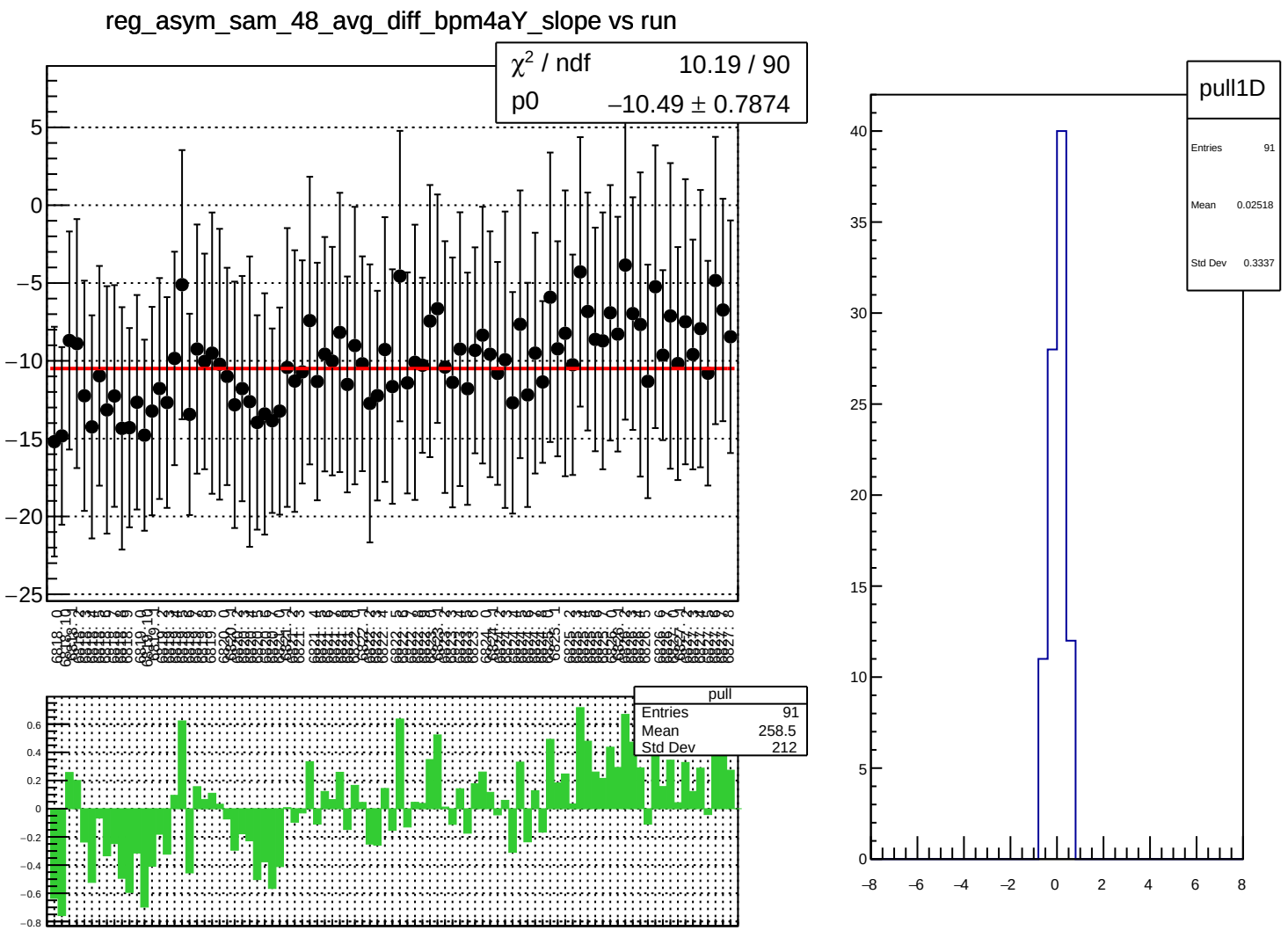

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.8 / 90
p0 −90.82 ± 1.419
pull
Entries 91
Mean 303.6
Std Dev 256.2

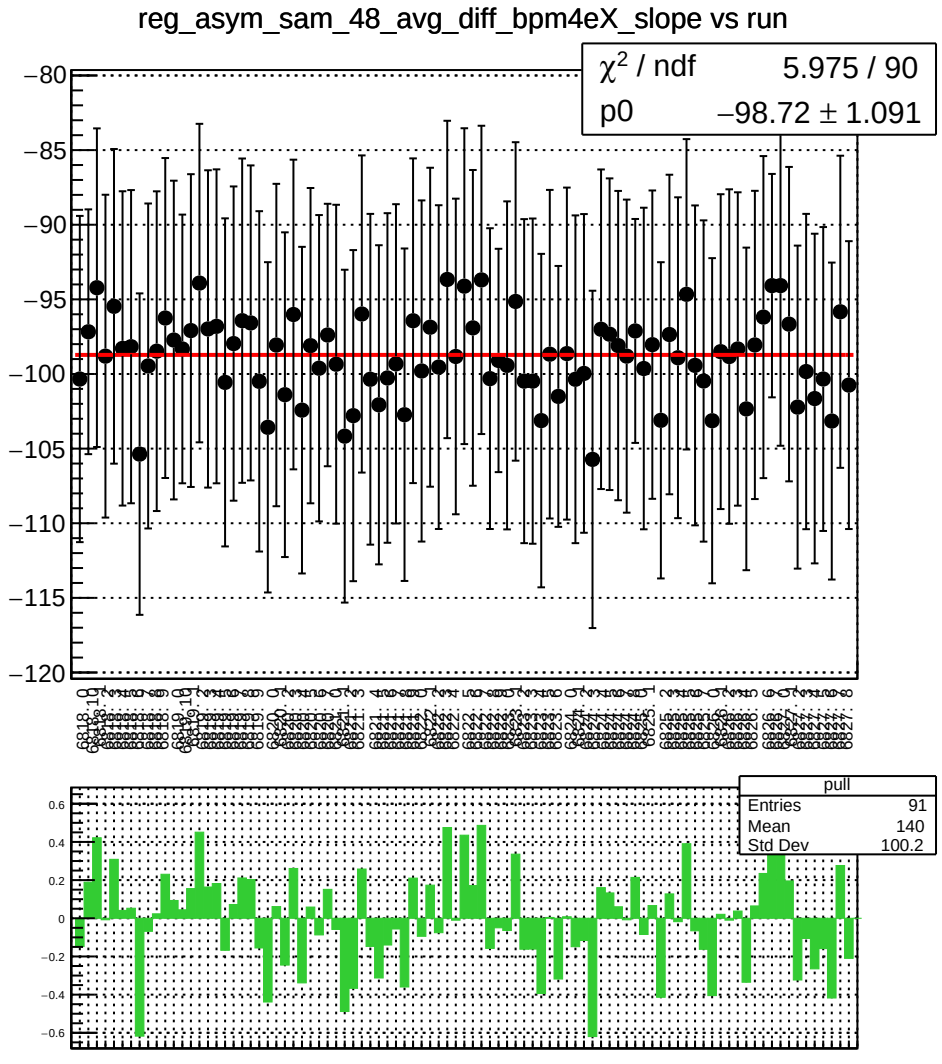

pull1D
Entries 91
Mean 0.02589
Std Dev 0.4658

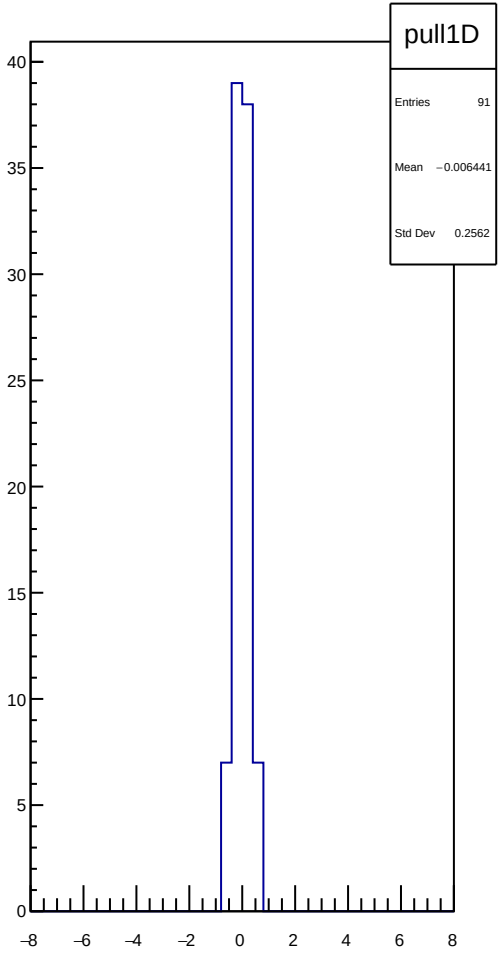

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 16.02 / 90
p0 0.7071± 0.07093
pull
Entries 91
Mean −562.2
Std Dev 604.3
pull1D
Entries 91
Mean 0.009664
Std Dev 0.4195

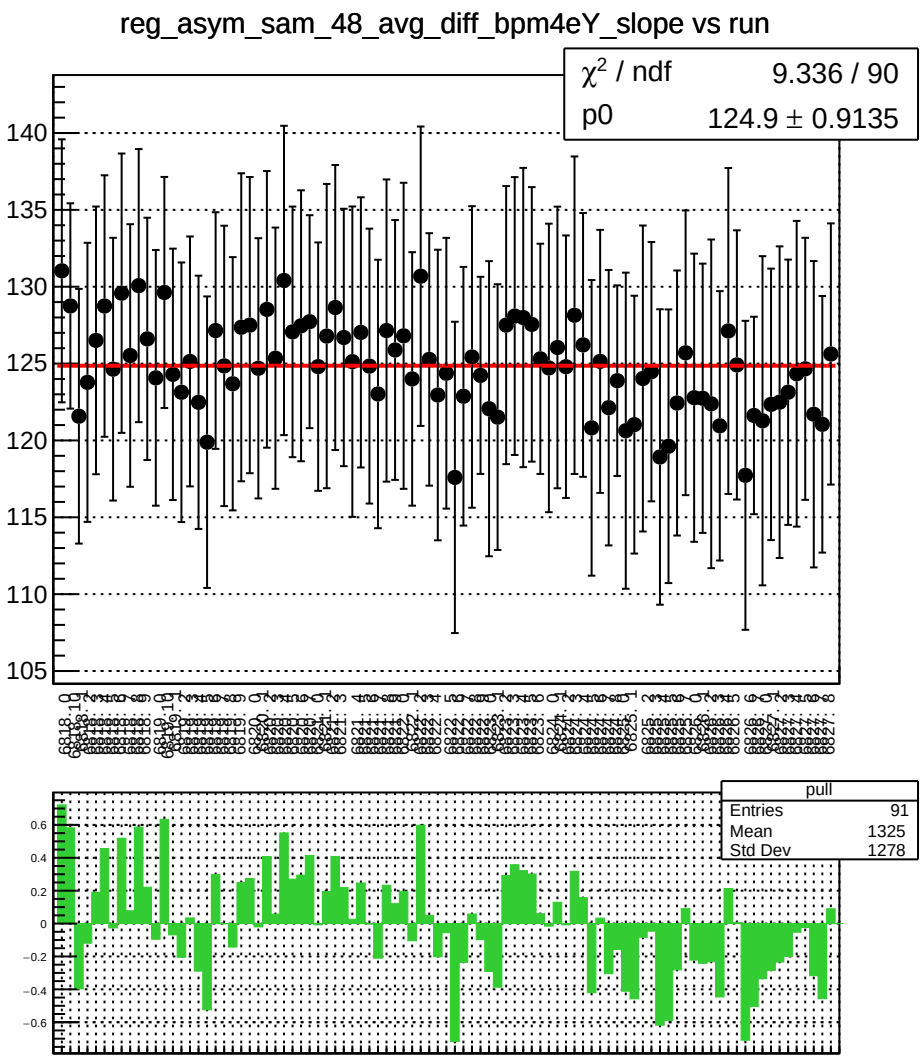

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 3.465 / 90
p0 −7.675 ± 1.167
pull
Entries 91
Mean 198.3
Std Dev 166.2

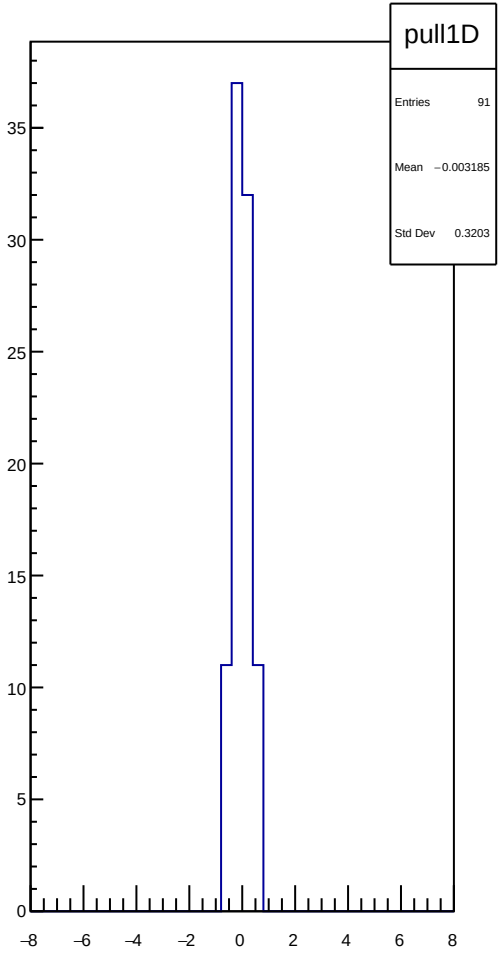

pull1D
Entries 91
Mean 0.001349
Std Dev 0.1951

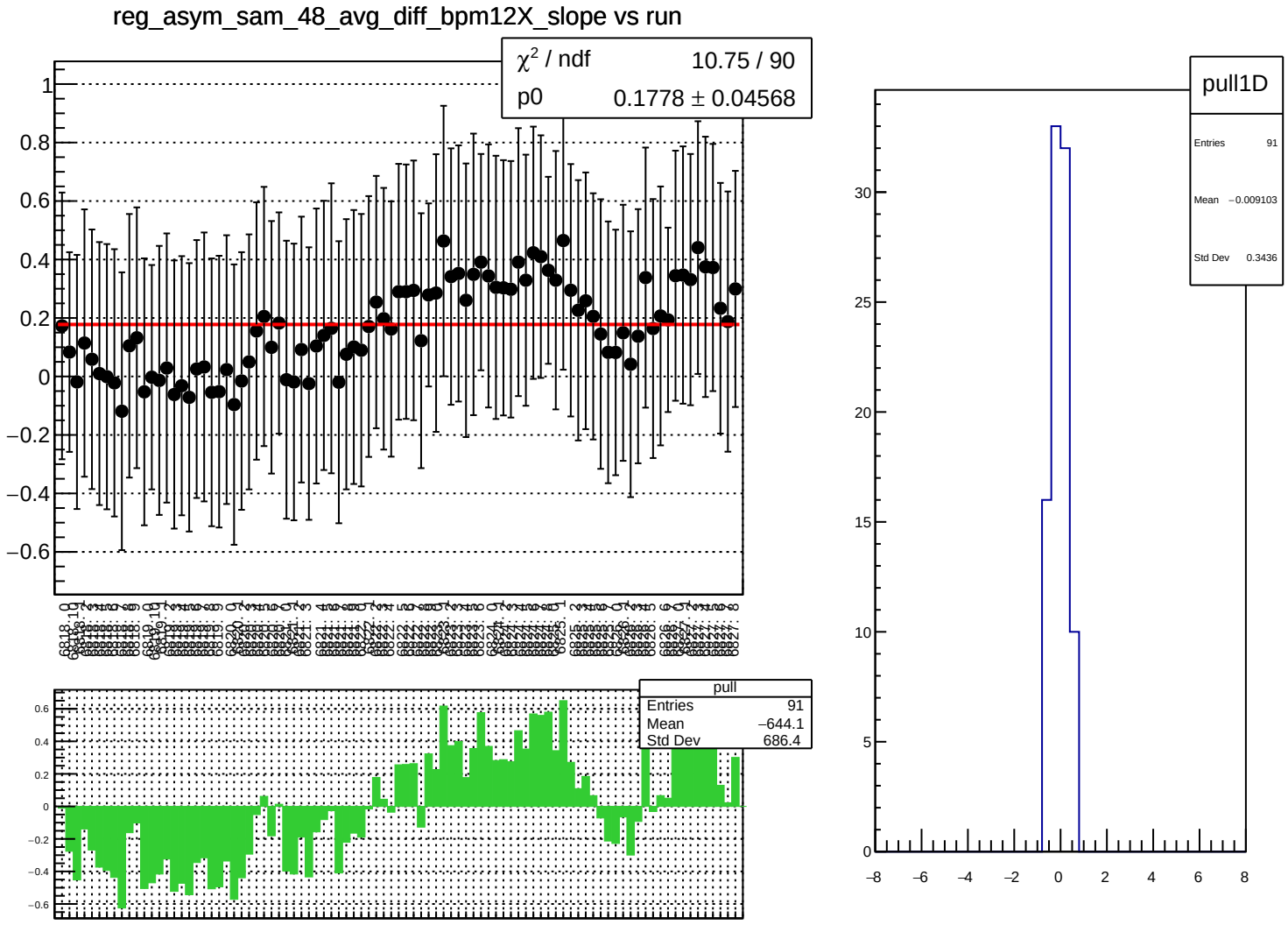

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.19 / 90
p0 −10.49 ± 0.7874
pull
Entries 91
Mean 258.5
Std Dev 212
pull1D
Entries 91
Mean 0.02518
Std Dev 0.3337

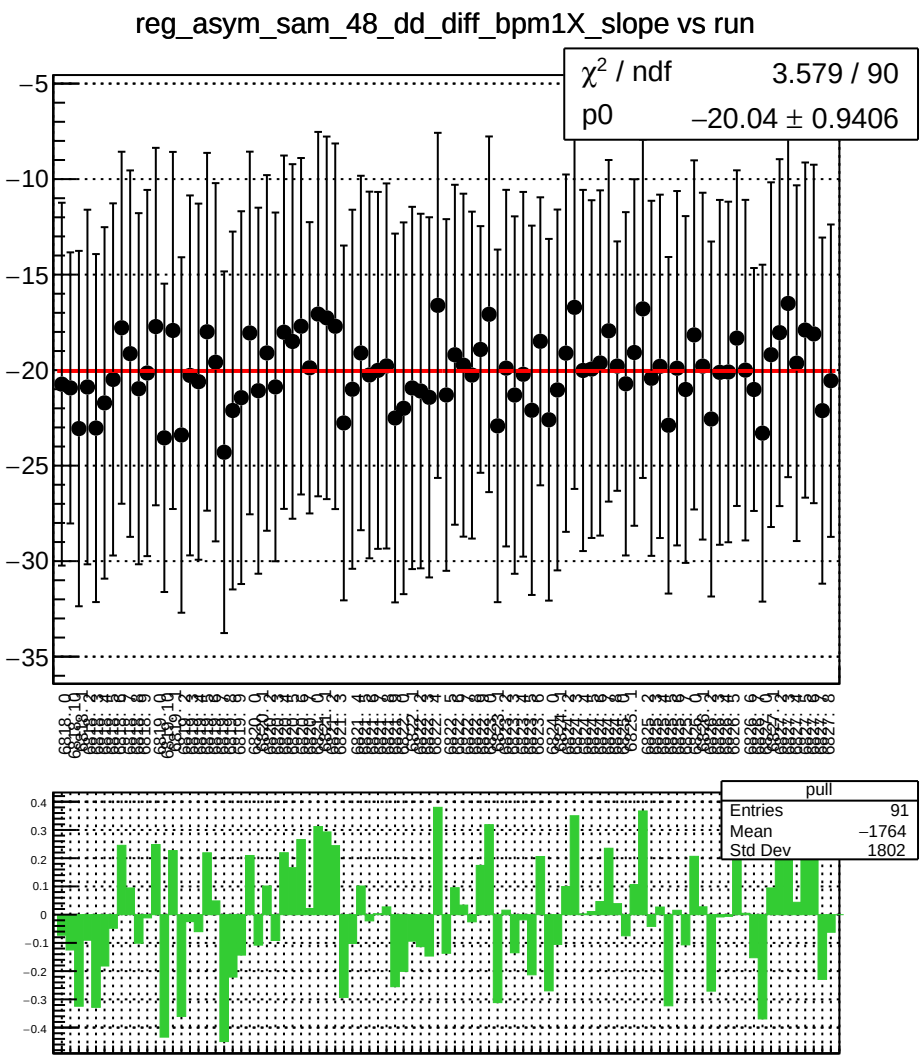

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.975 / 90
p0 −98.72 ± 1.091
pull
Entries 91
Mean 140
Std Dev 100.2

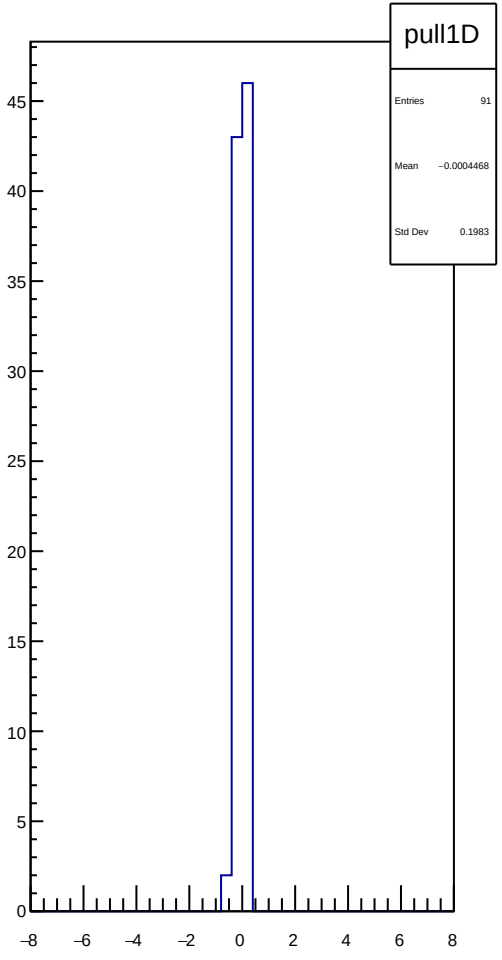

pull1D
Entries 91
Mean −0.006441
Std Dev 0.2562

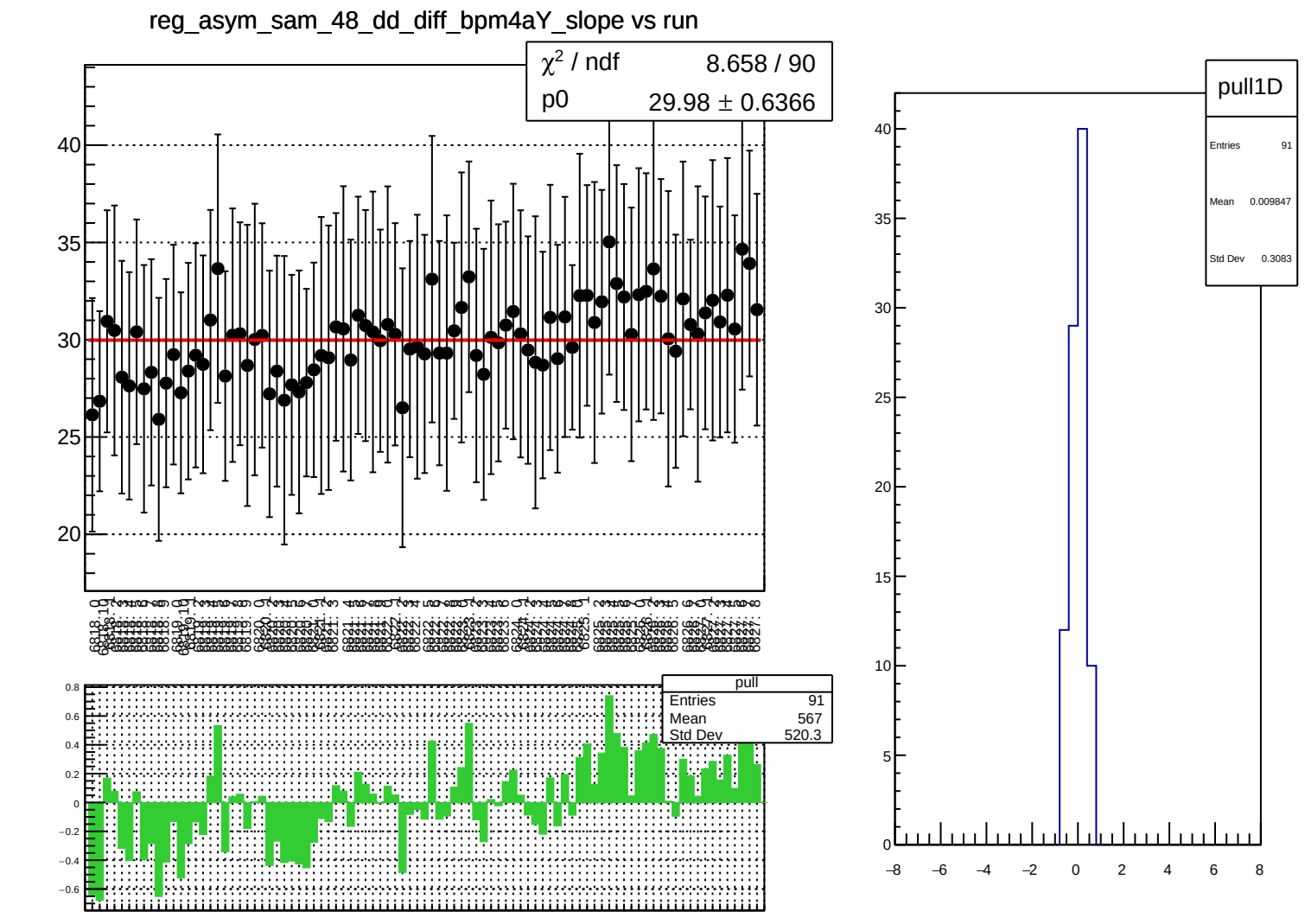

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.336 / 90
p0 124.9 ± 0.9135
pull
Entries 91
Mean 1325
Std Dev 1278

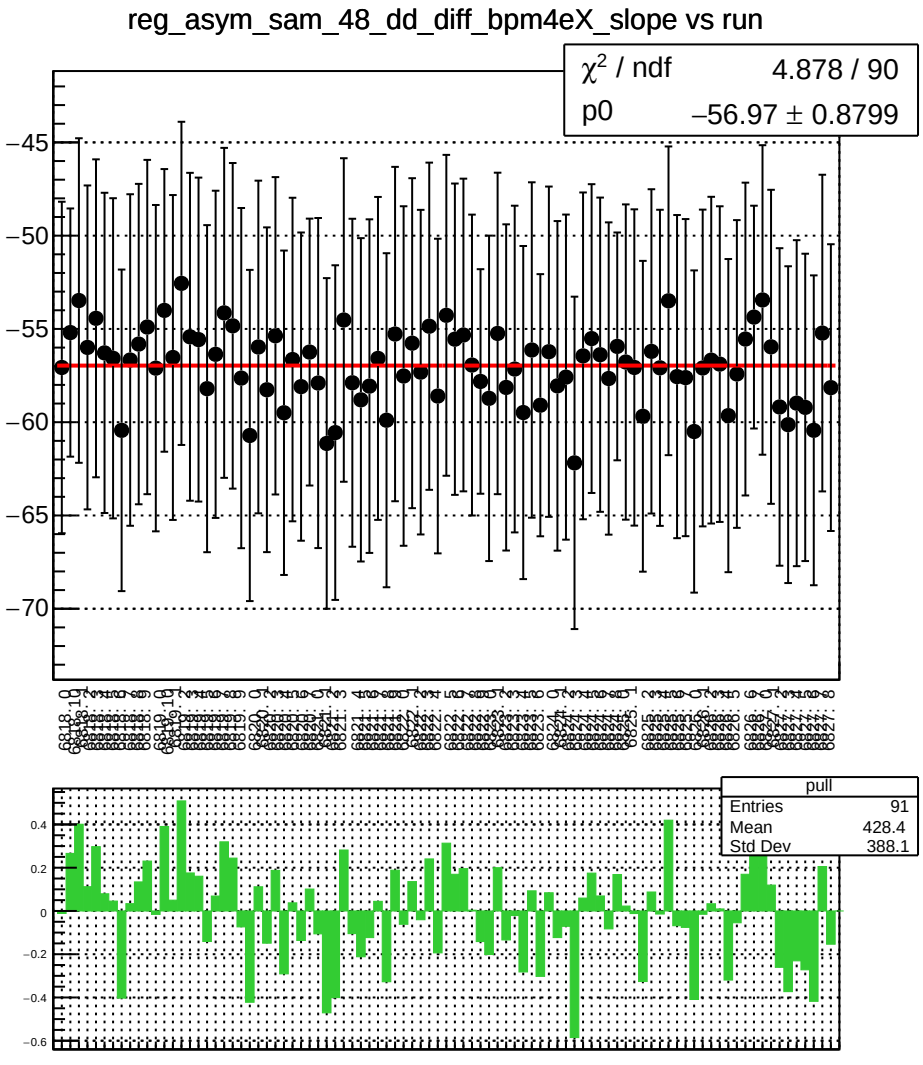

pull1D
Entries 91
Mean −0.003185
Std Dev 0.3203

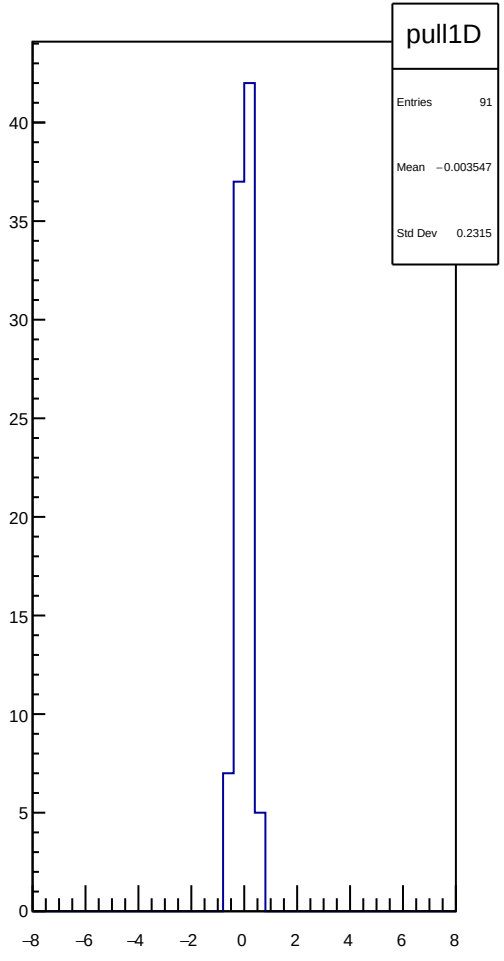

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 10.75 / 90
p0 0.1778 ± 0.04568
pull
Entries 91
Mean −644.1
Std Dev 686.4
pull1D
Entries 91
Mean −0.009103
Std Dev 0.3436

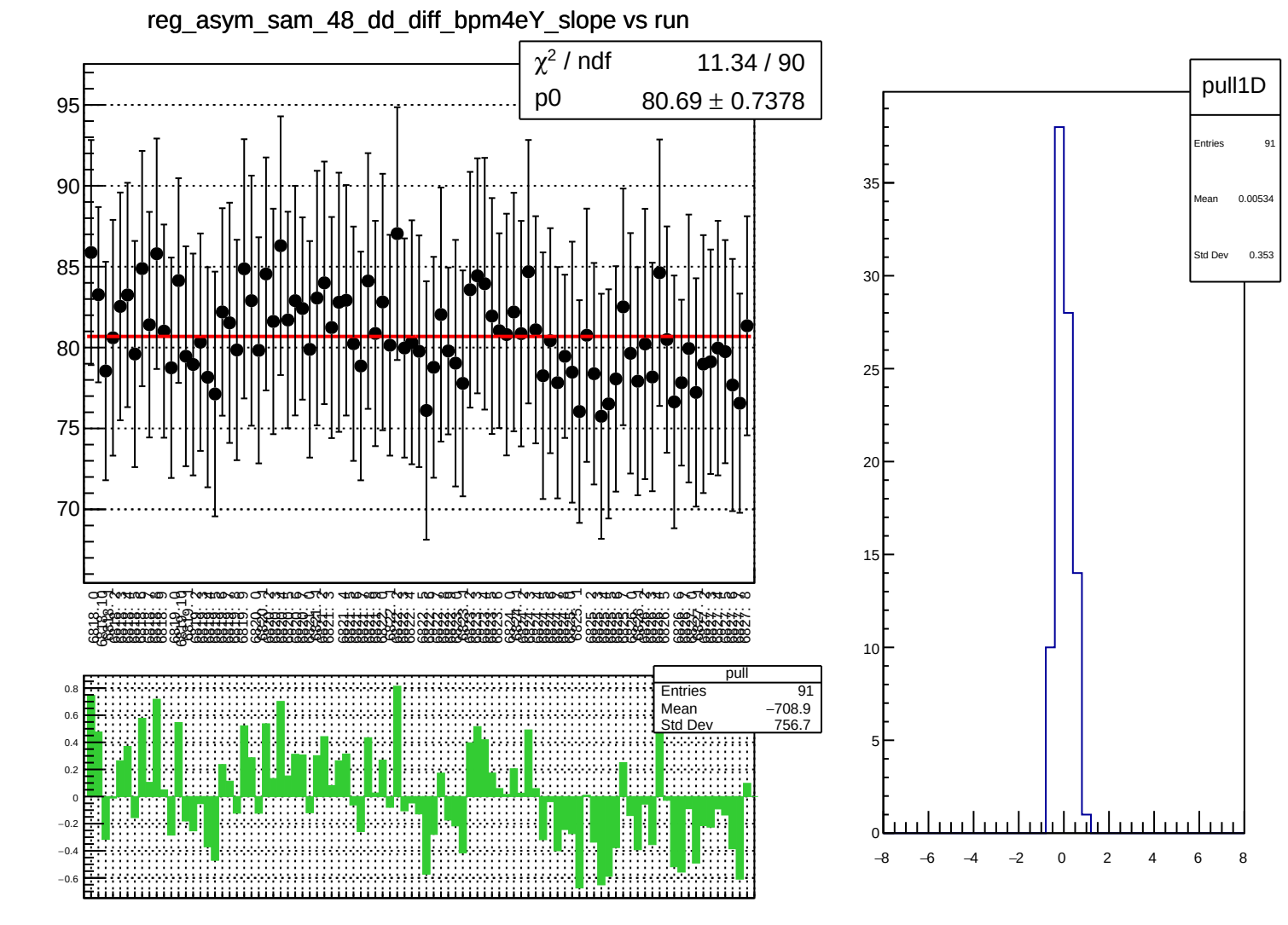

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.579 / 90
p0 −20.04 ± 0.9406
pull
Entries 91
Mean −1764
Std Dev 1802

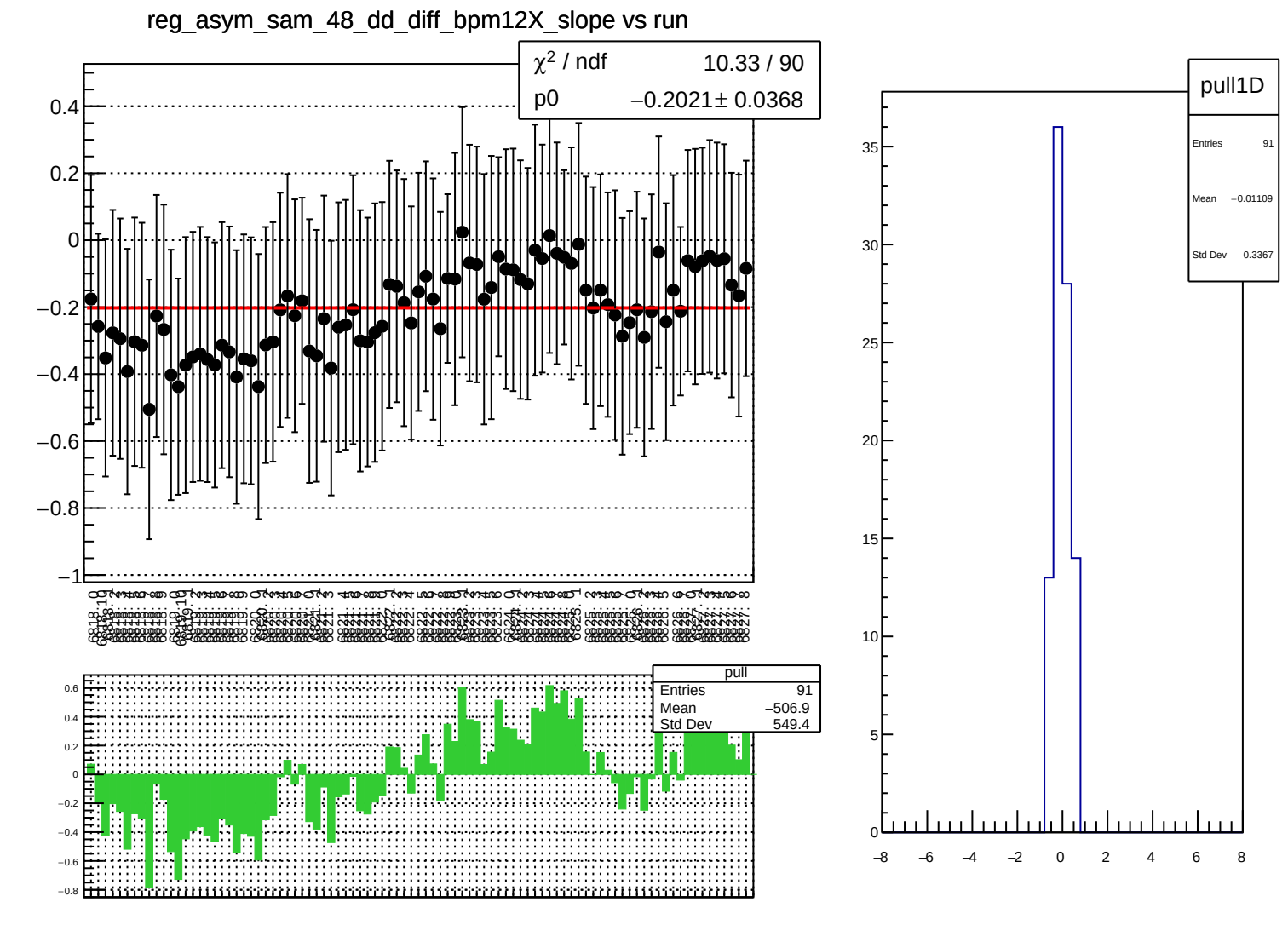

pull1D
Entries 91
Mean −0.0004468
Std Dev 0.1983

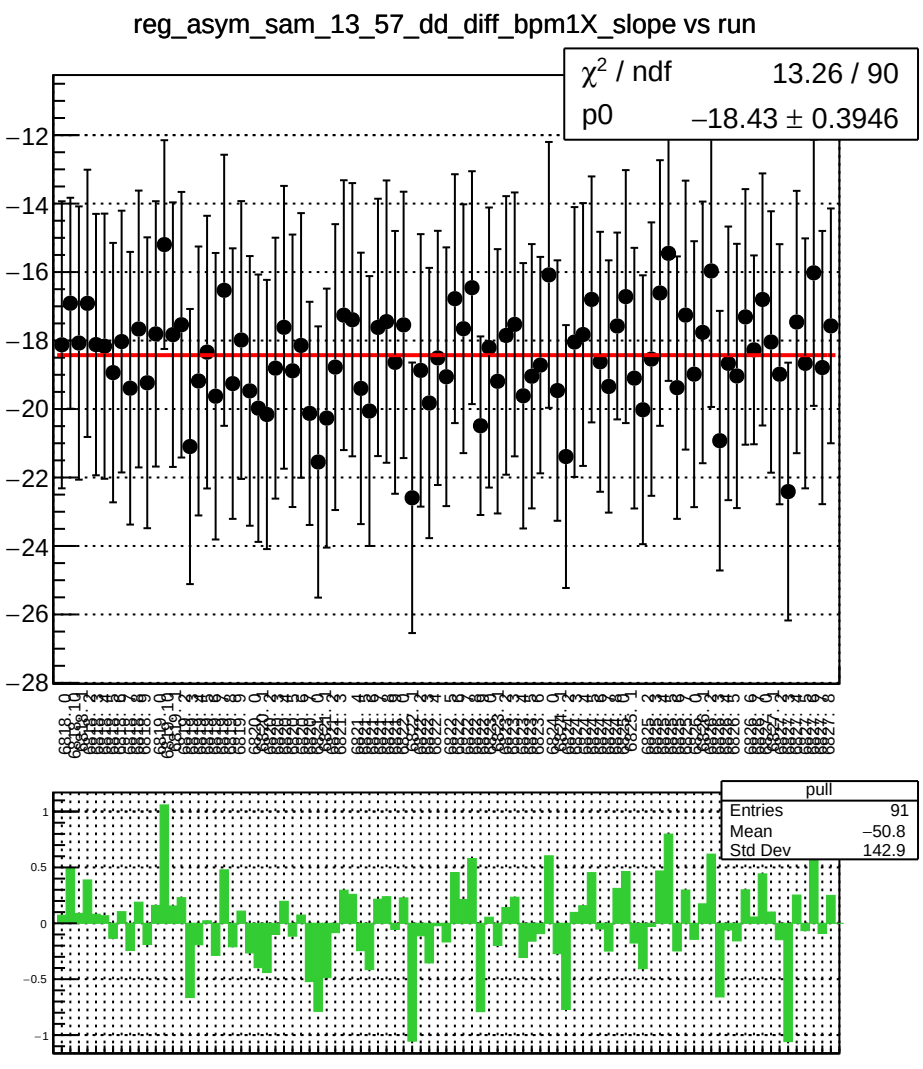

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.658 / 90
p0 29.98 ± 0.6366
pull
Entries 91
Mean 567
Std Dev 520.3
pull1D
Entries 91
Mean 0.009847
Std Dev 0.3083

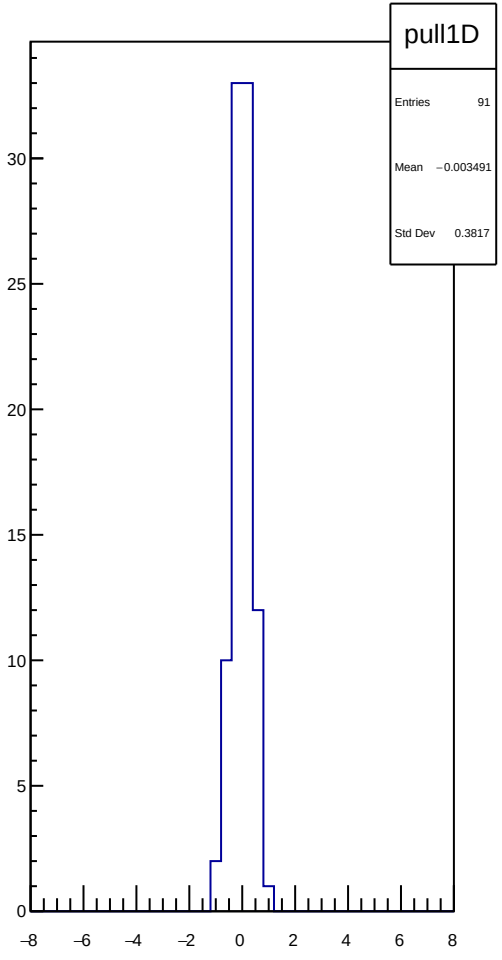

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.878 / 90
p0 −56.97 ± 0.8799
−45
−50
−55
−60
−65
−70
pull
Entries 91
Mean 428.4
Std Dev 388.1
0.4
0.2
0
−0.2
−0.4
−0.6

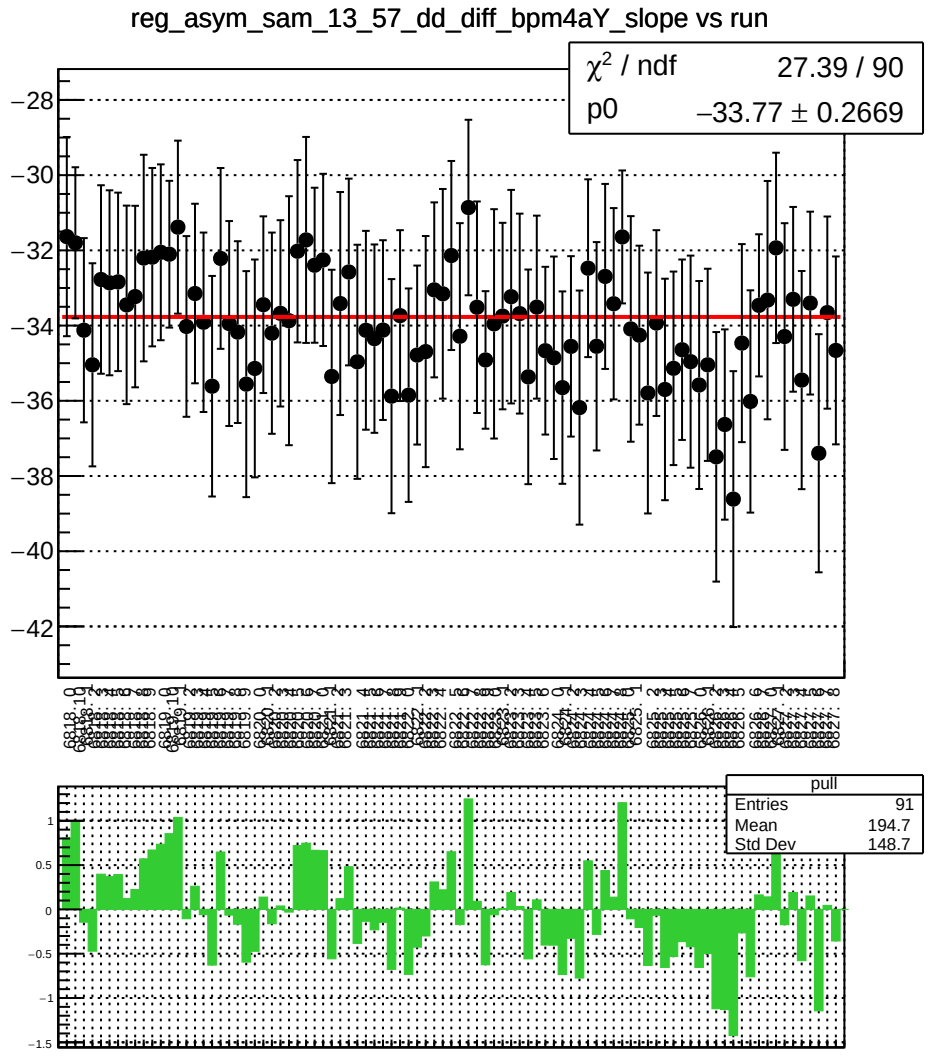

pull1D
Entries 91
Mean −0.003547
Std Dev 0.2315
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

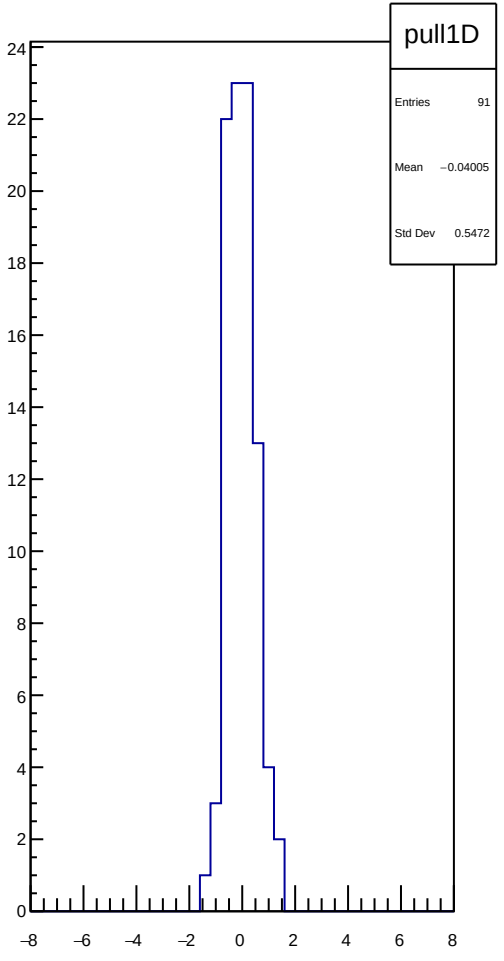

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.34 / 90
p0 80.69 ± 0.7378
pull
Entries 91
Mean −708.9
Std Dev 756.7
pull1D
Entries 91
Mean 0.00534
Std Dev 0.353

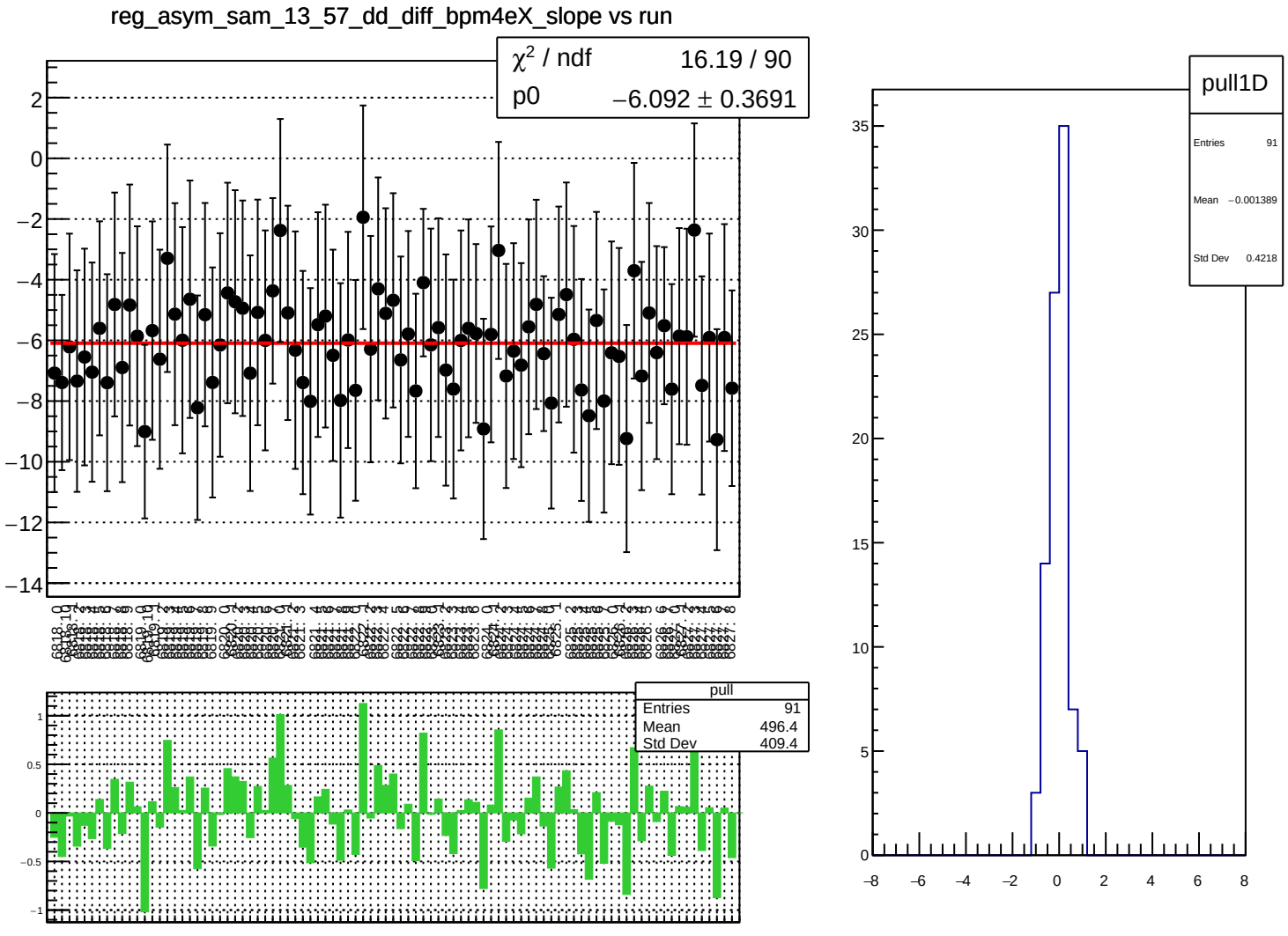

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.33 / 90
p0 −0.2021± 0.0368
pull
Entries 91
Mean −506.9
Std Dev 549.4
pull1D
Entries 91
Mean −0.01109
Std Dev 0.3367

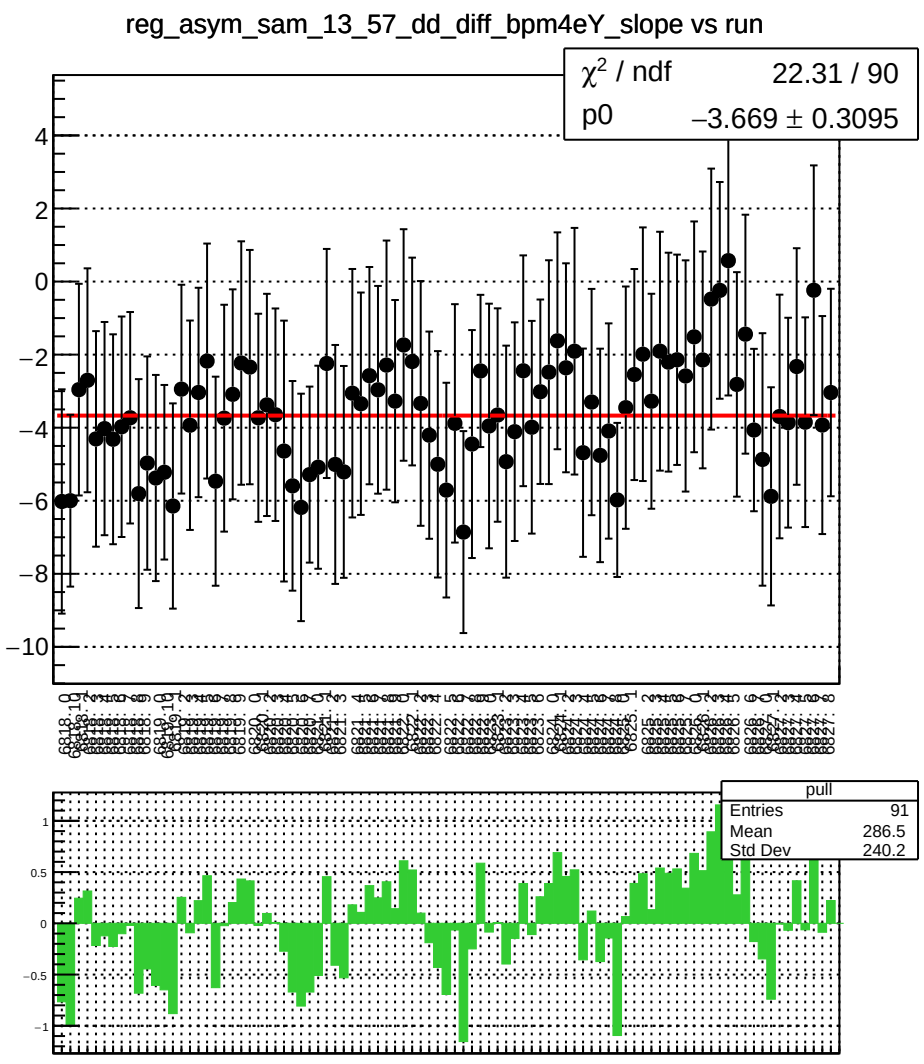

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 13.26 / 90
p0 −18.43 ± 0.3946
pull
Entries 91
Mean −50.8
Std Dev 142.9

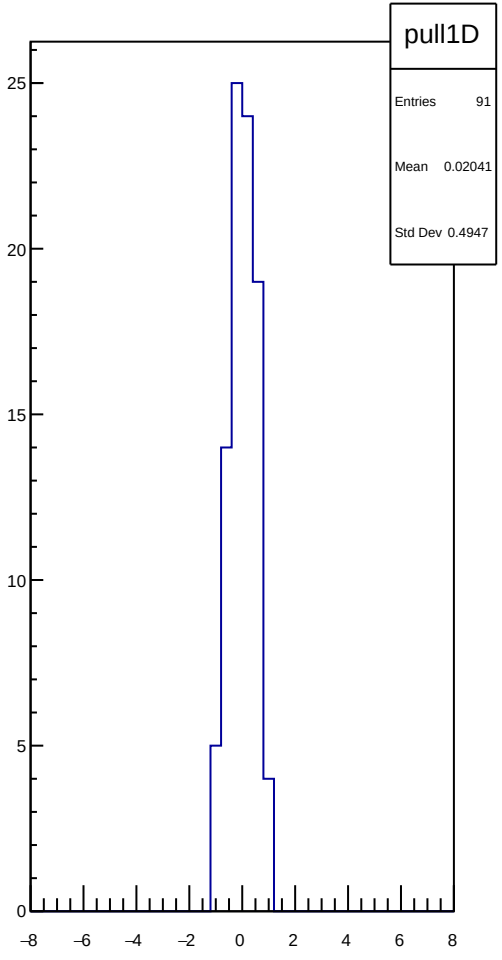

pull1D
Entries 91
Mean −0.003491
Std Dev 0.3817

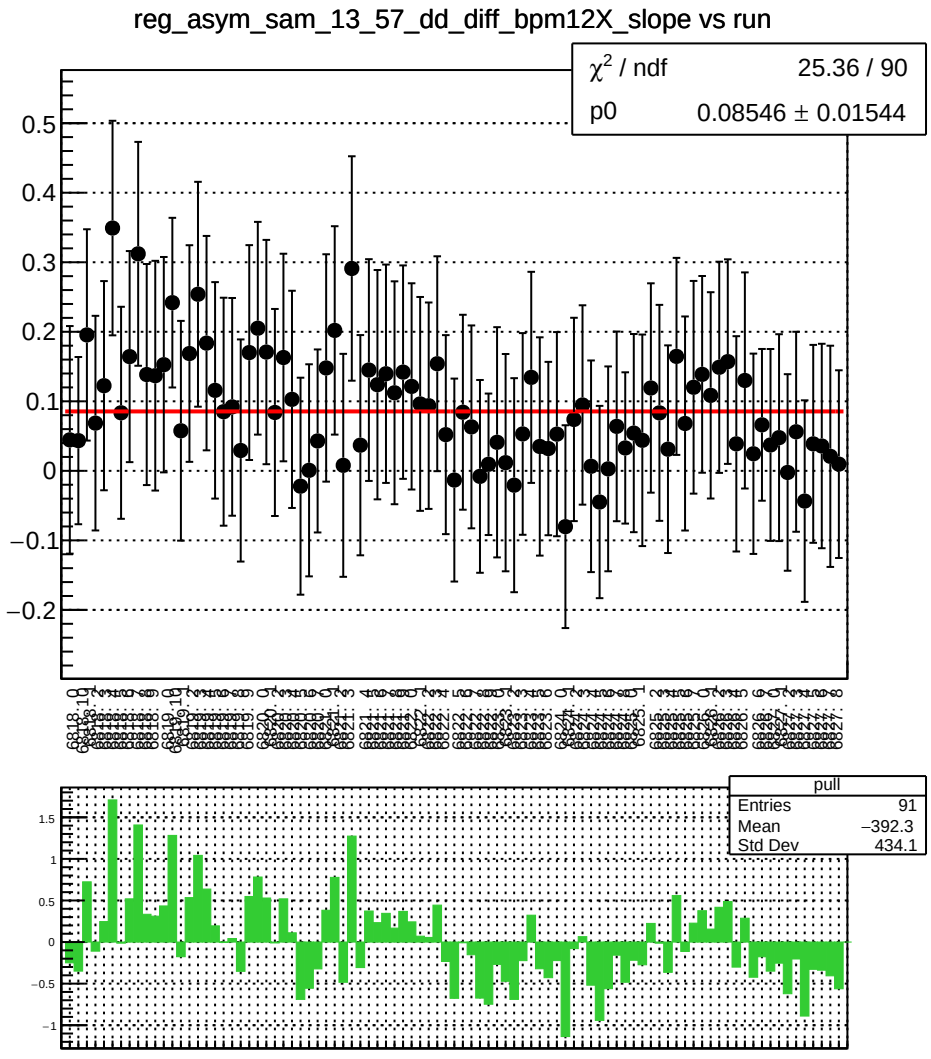

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.39 / 90
p0 −33.77 ± 0.2669
pull
Entries 91
Mean 194.7
Std Dev 148.7

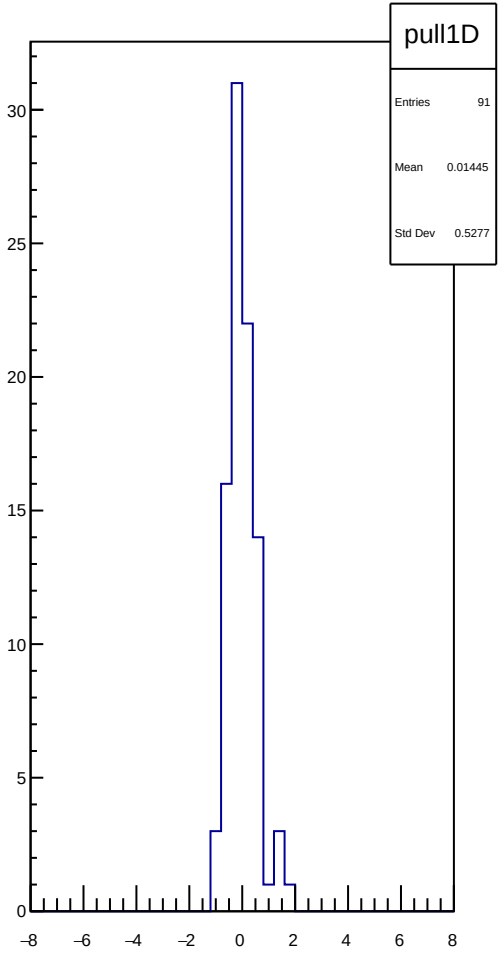

pull1D
Entries 91
Mean −0.04005
Std Dev 0.5472

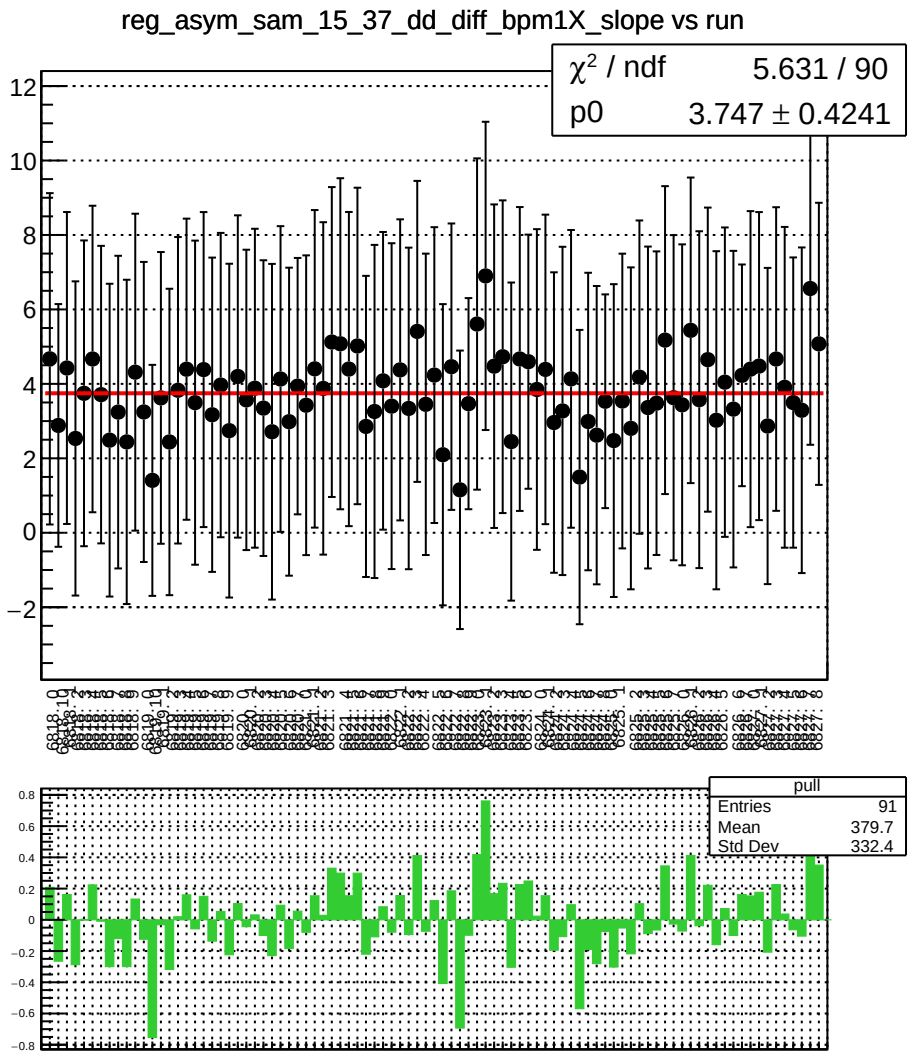

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.19 / 90
p0 −6.092 ± 0.3691
pull
Entries 91
Mean 496.4
Std Dev 409.4
pull1D
Entries 91
Mean −0.001389
Std Dev 0.4218

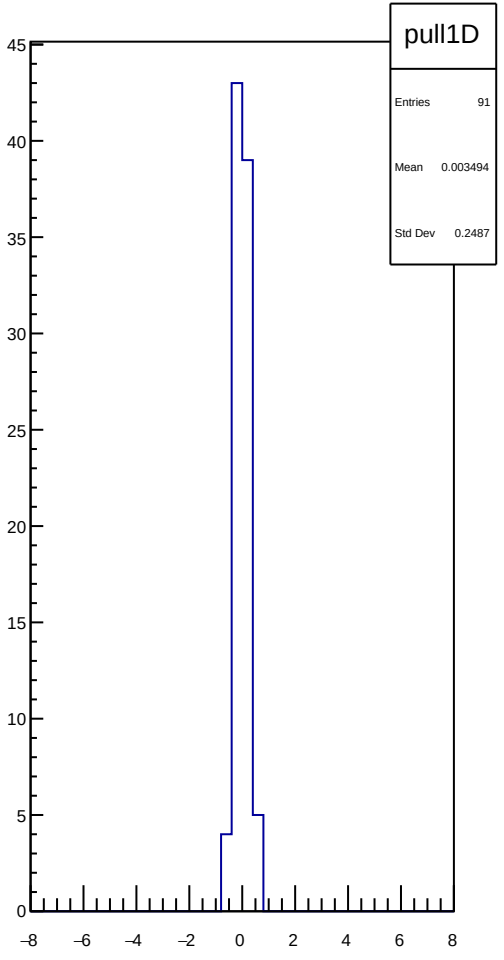

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.31 / 90
p0 −3.669 ± 0.3095
pull
Entries 91
Mean 286.5
Std Dev 240.2

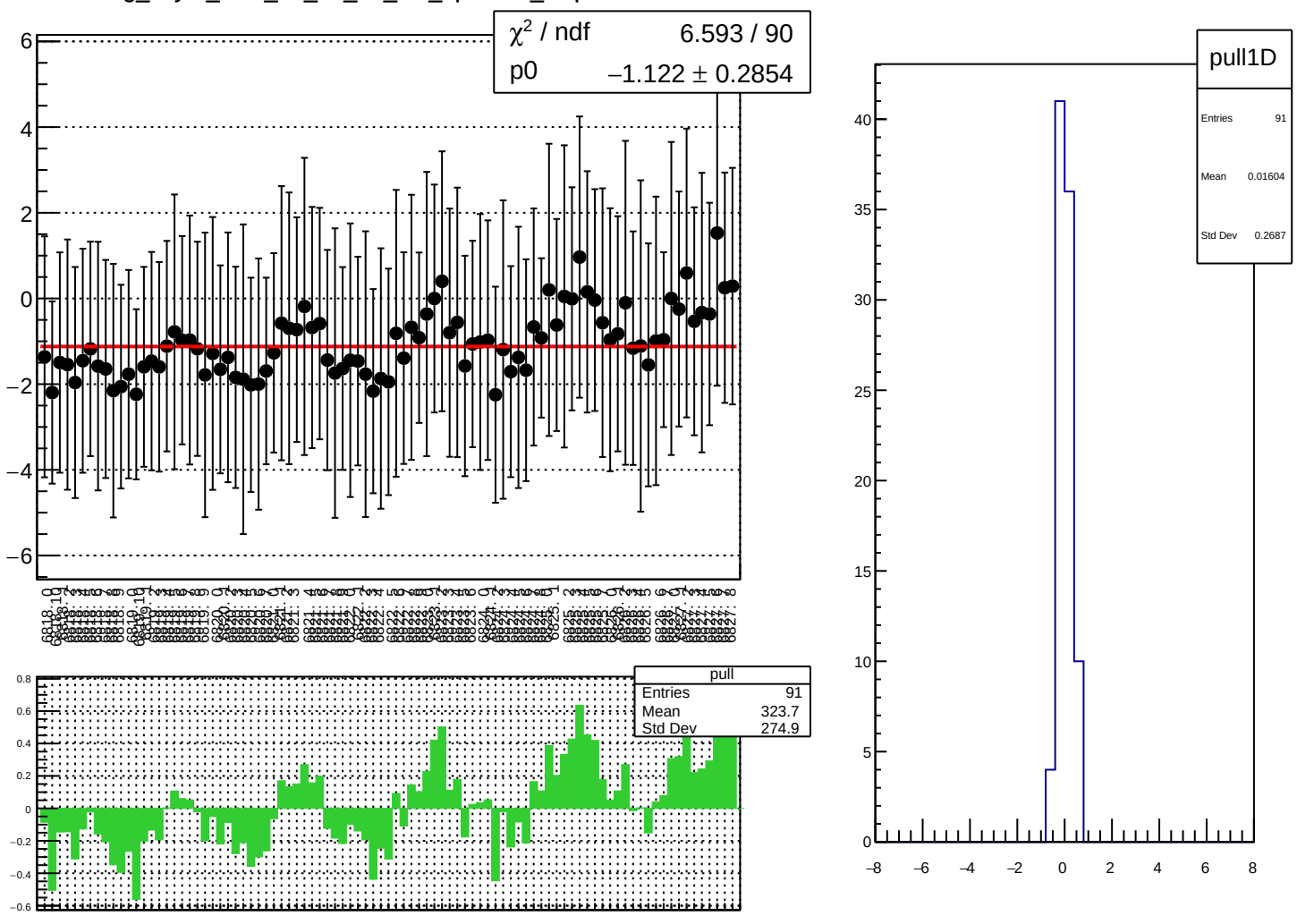

pull1D
Entries 91
Mean 0.02041
Std Dev 0.4947

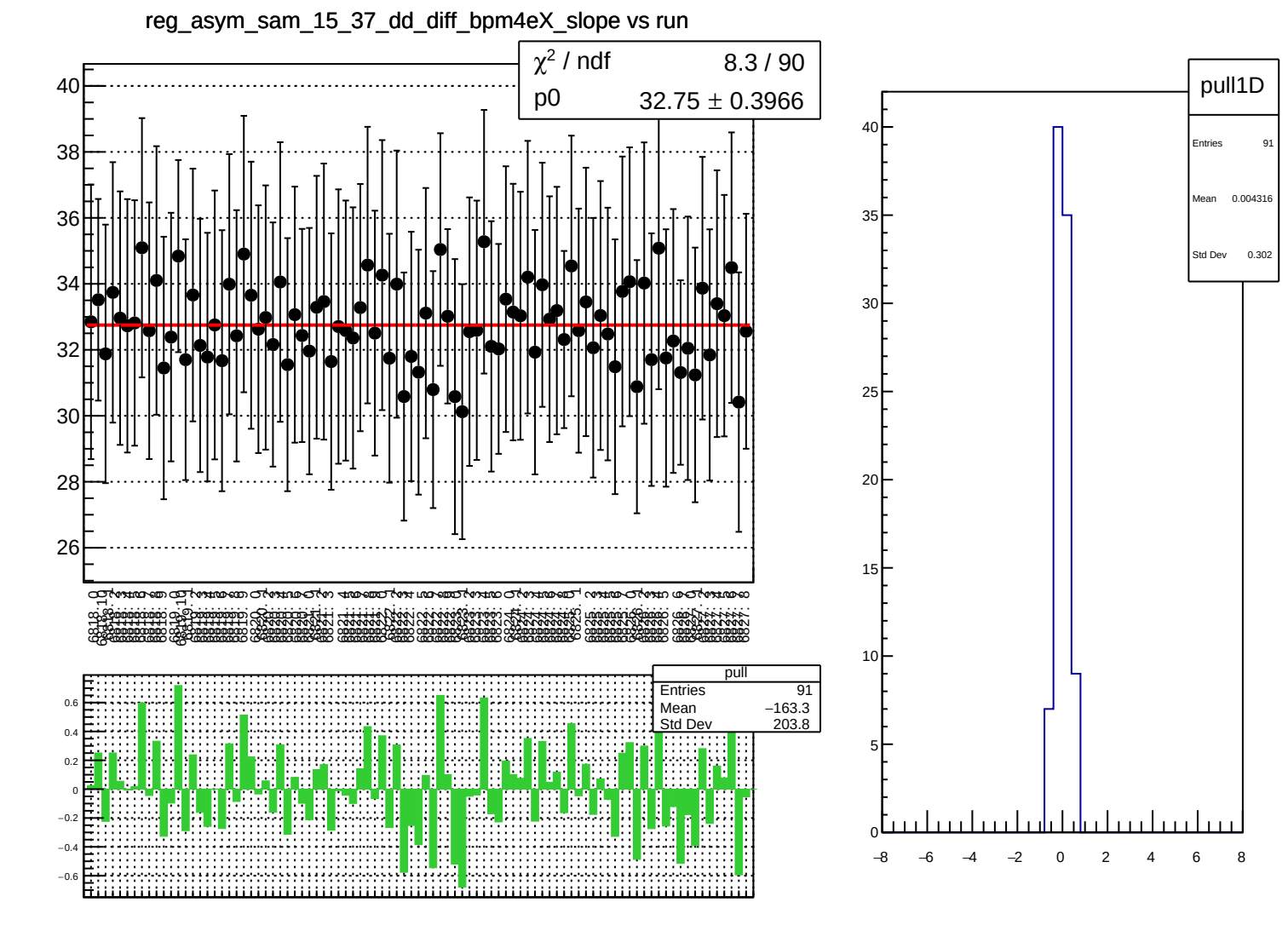

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 25.36 / 90
p0 0.08546 ± 0.01544
pull
Entries 91
Mean −392.3
Std Dev 434.1

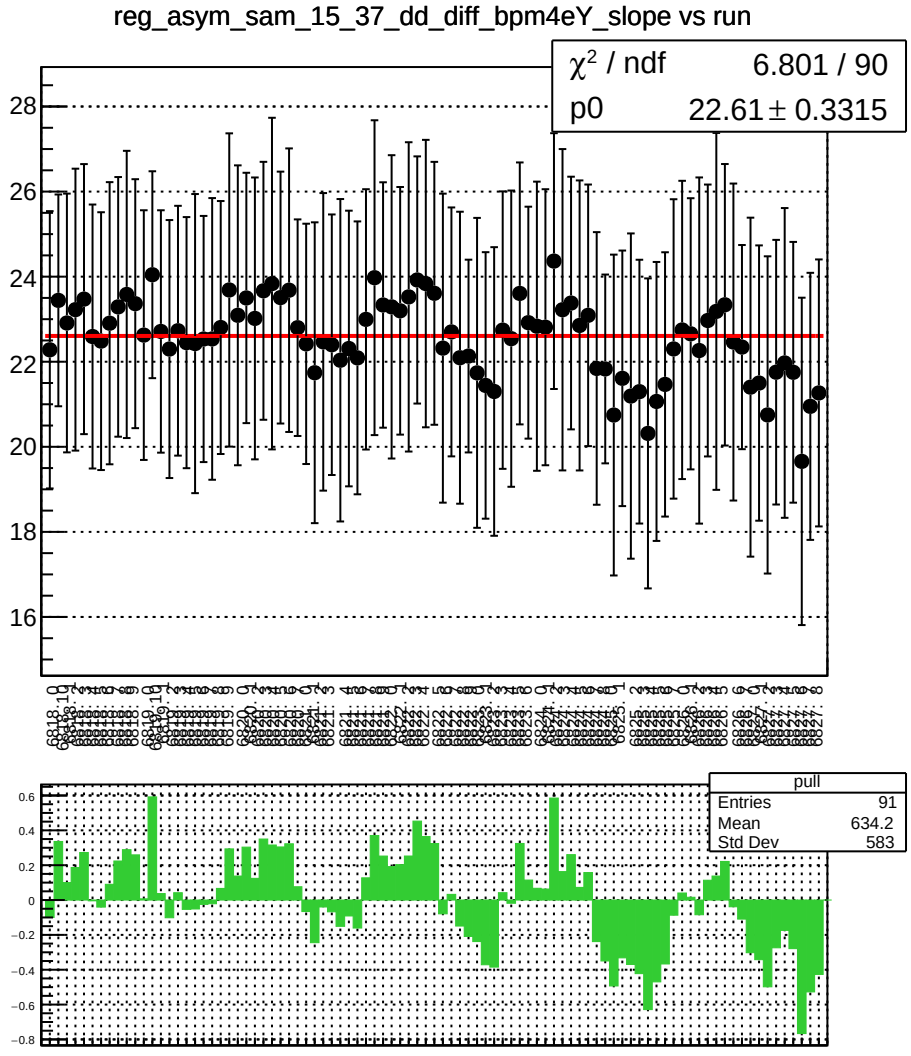

pull1D
Entries 91
Mean 0.01445
Std Dev 0.5277

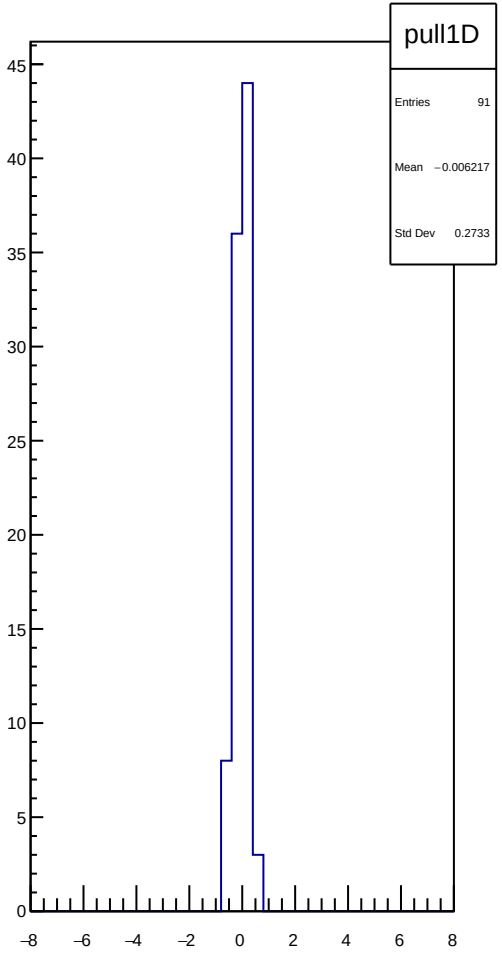

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5.631 / 90
p0 3.747 ± 0.4241
pull
Entries 91
Mean 379.7
Std Dev 332.4

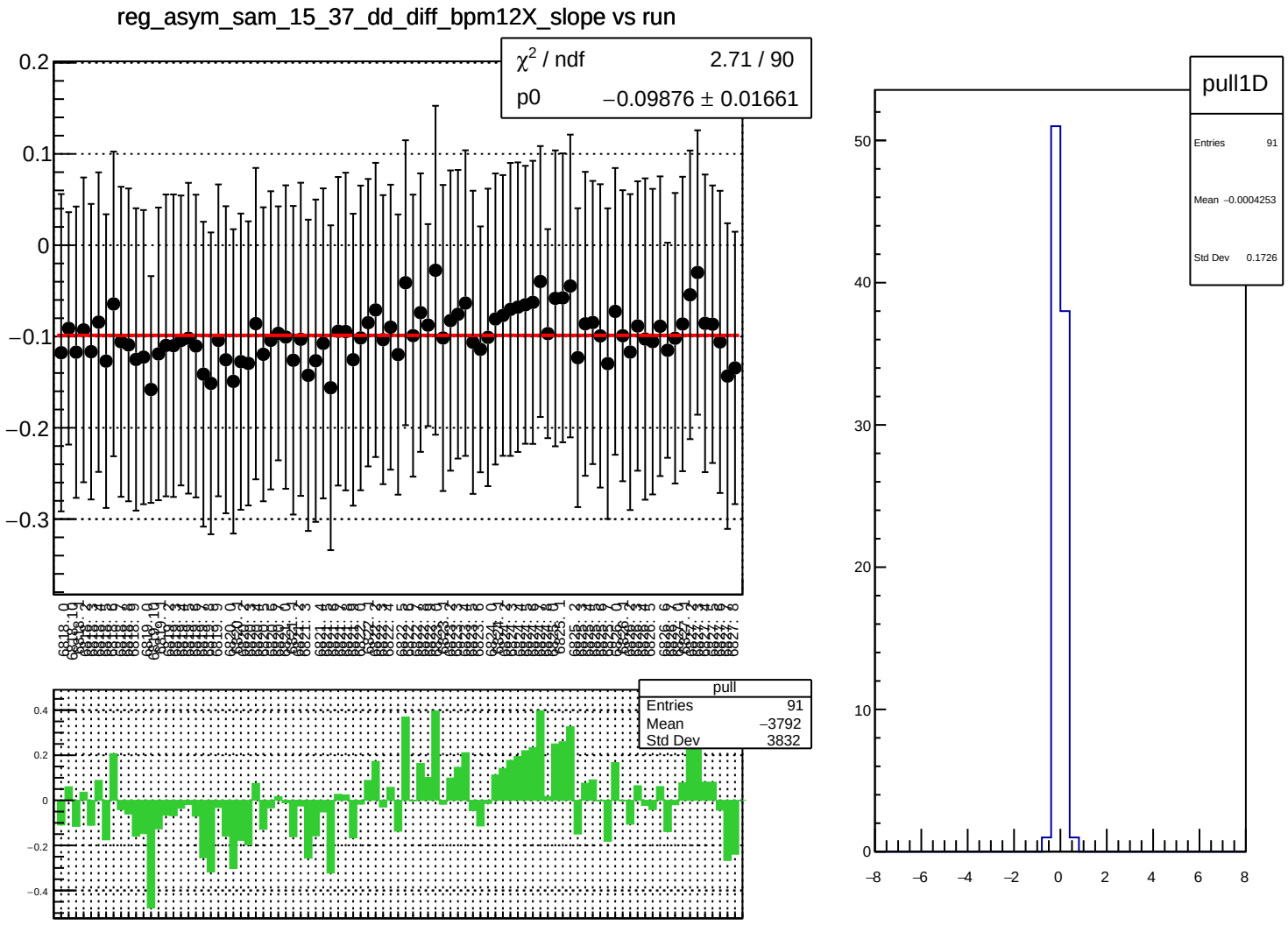

pull1D
Entries 91
Mean 0.003494
Std Dev 0.2487

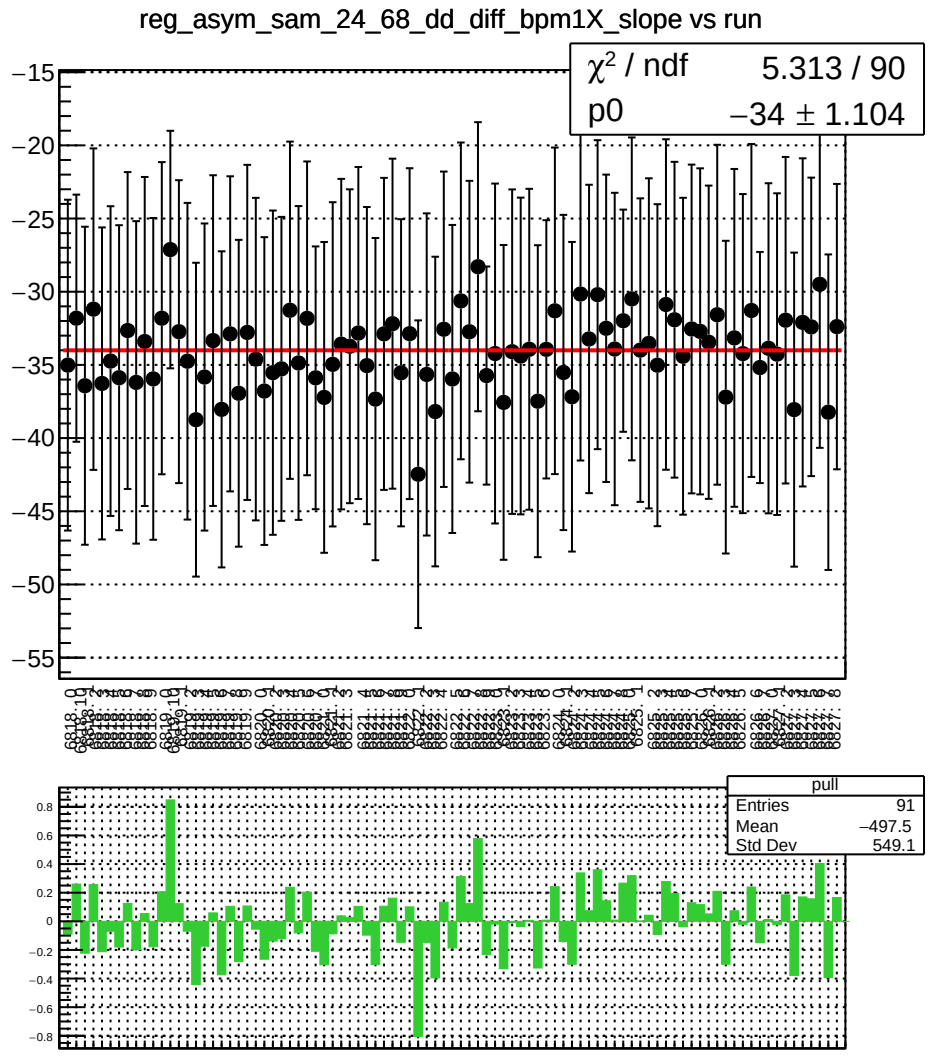

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.593 / 90
p0 −1.122 ± 0.2854
pull
Entries 91
Mean 323.7
Std Dev 274.9
pull1D
Entries 91
Mean 0.01604
Std Dev 0.2687

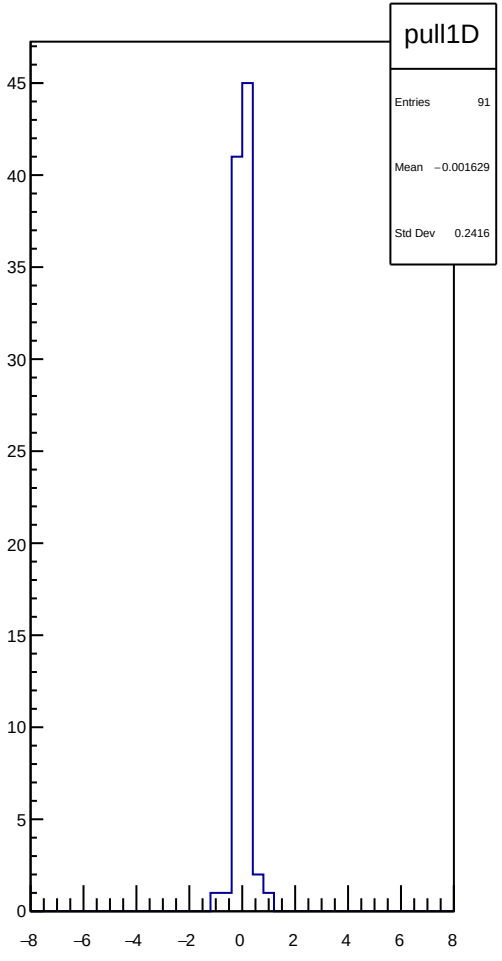

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.3 / 90
p0 32.75 ± 0.3966
pull
Entries 91
Mean −163.3
Std Dev 203.8
pull1D
Entries 91
Mean 0.004316
Std Dev 0.302

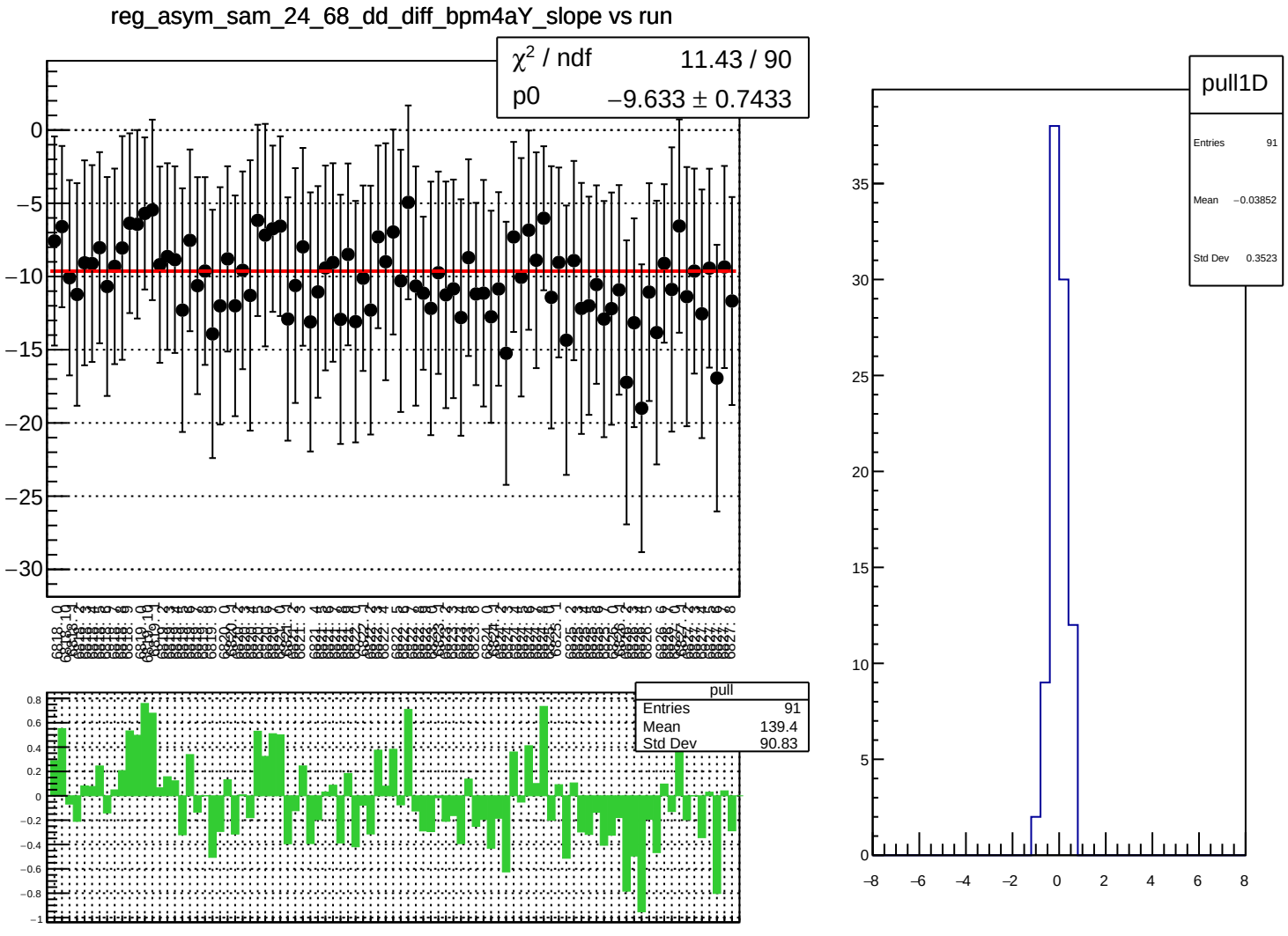

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.801 / 90
p0 22.61 ± 0.3315
pull
Entries 91
Mean 634.2
Std Dev 583

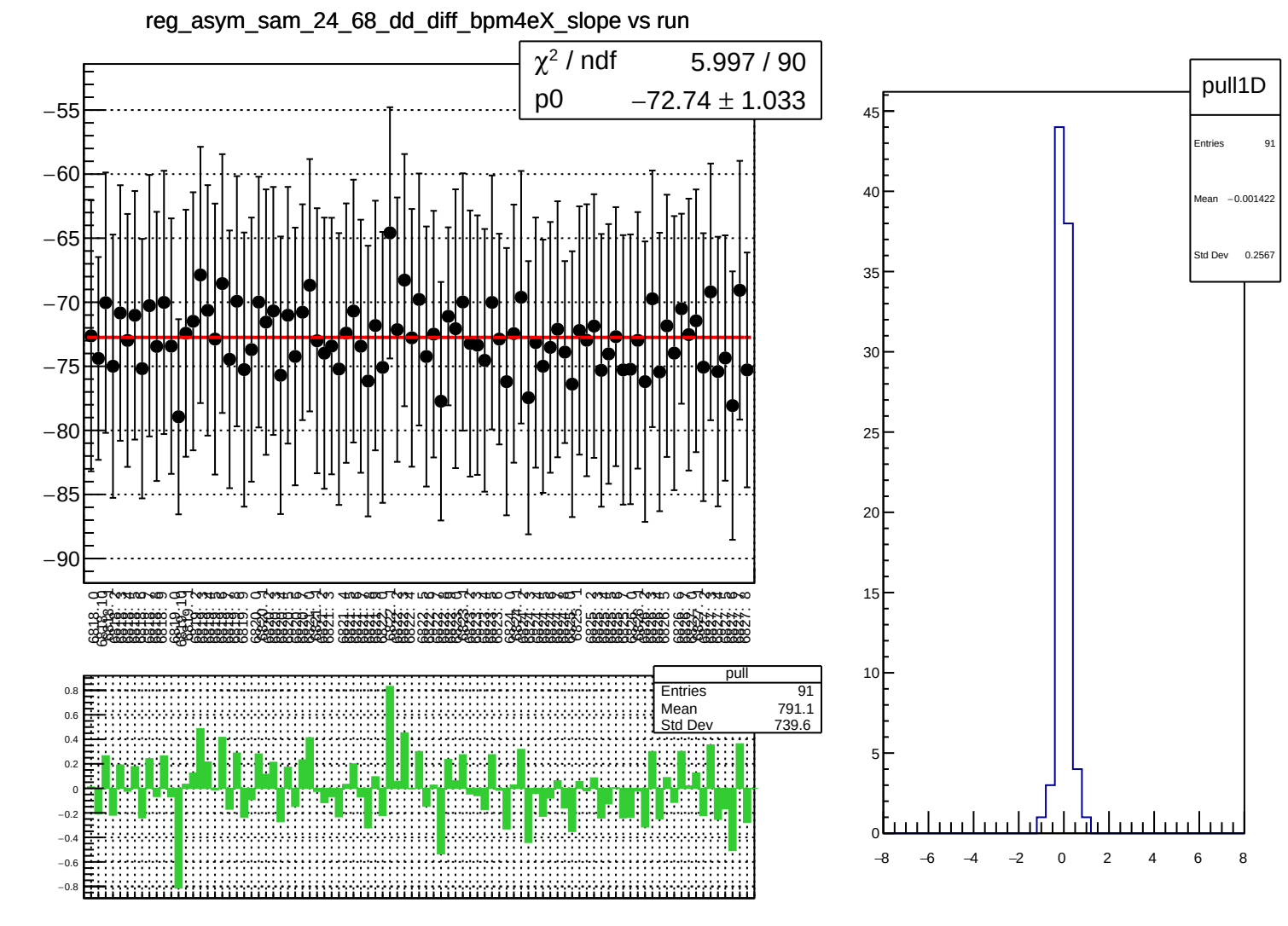

pull1D
Entries 91
Mean −0.006217
Std Dev 0.2733

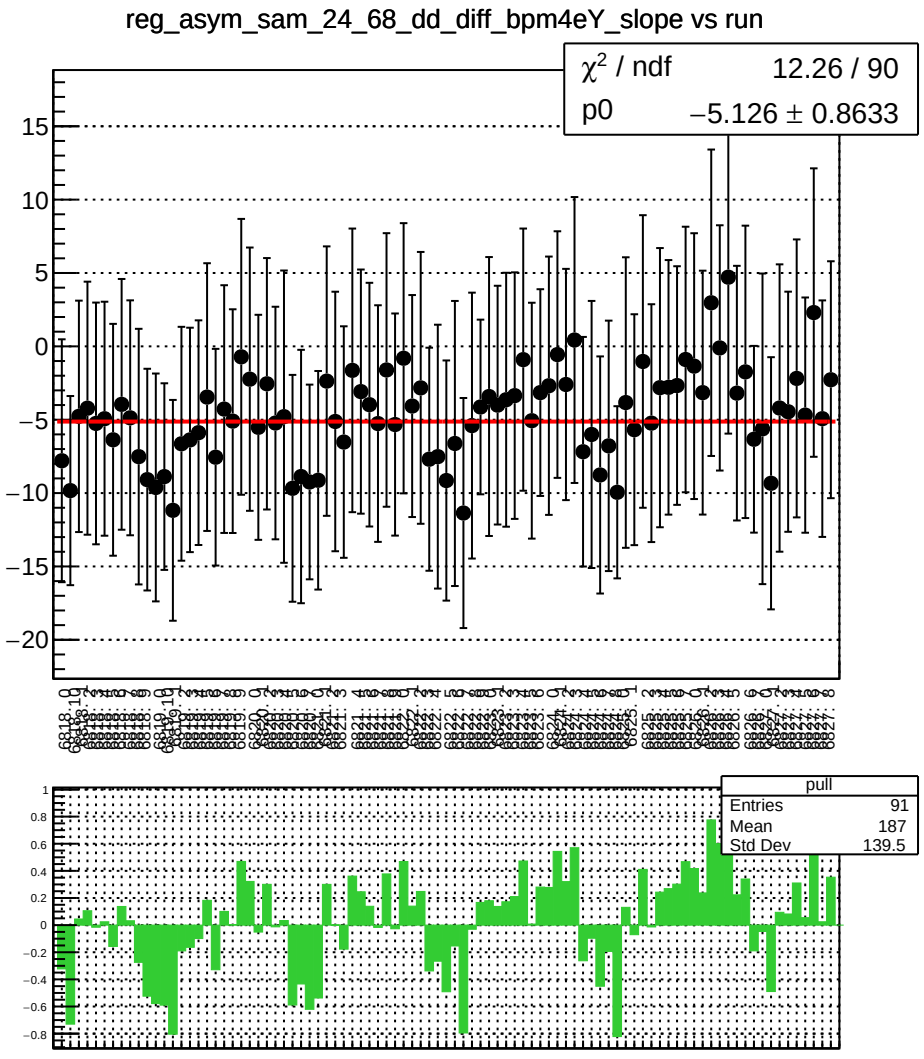

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.71 / 90
p0 −0.09876 ± 0.01661
pull
Entries 91
Mean −3792
Std Dev 3832
pull1D
Entries 91
Mean −0.0004253
Std Dev 0.1726

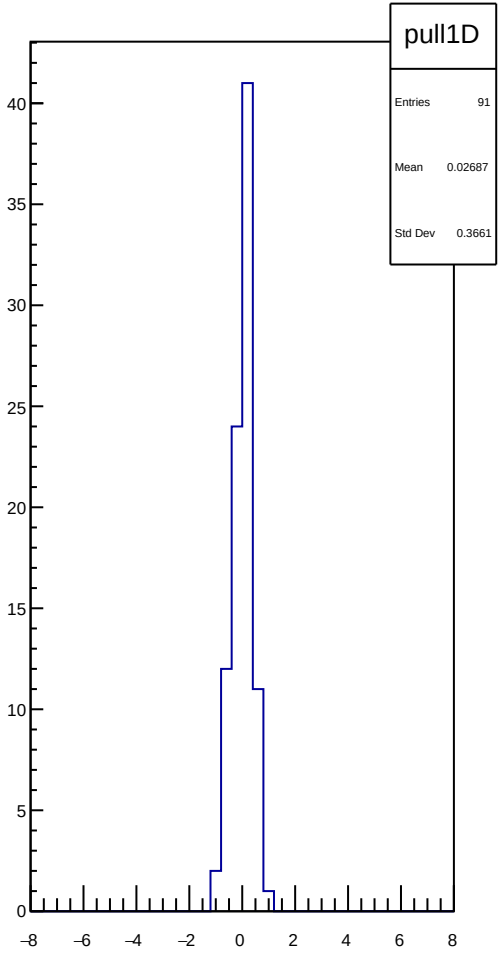

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 5.313 / 90
p0 −34 ± 1.104
pull
Entries 91
Mean −497.5
Std Dev 549.1

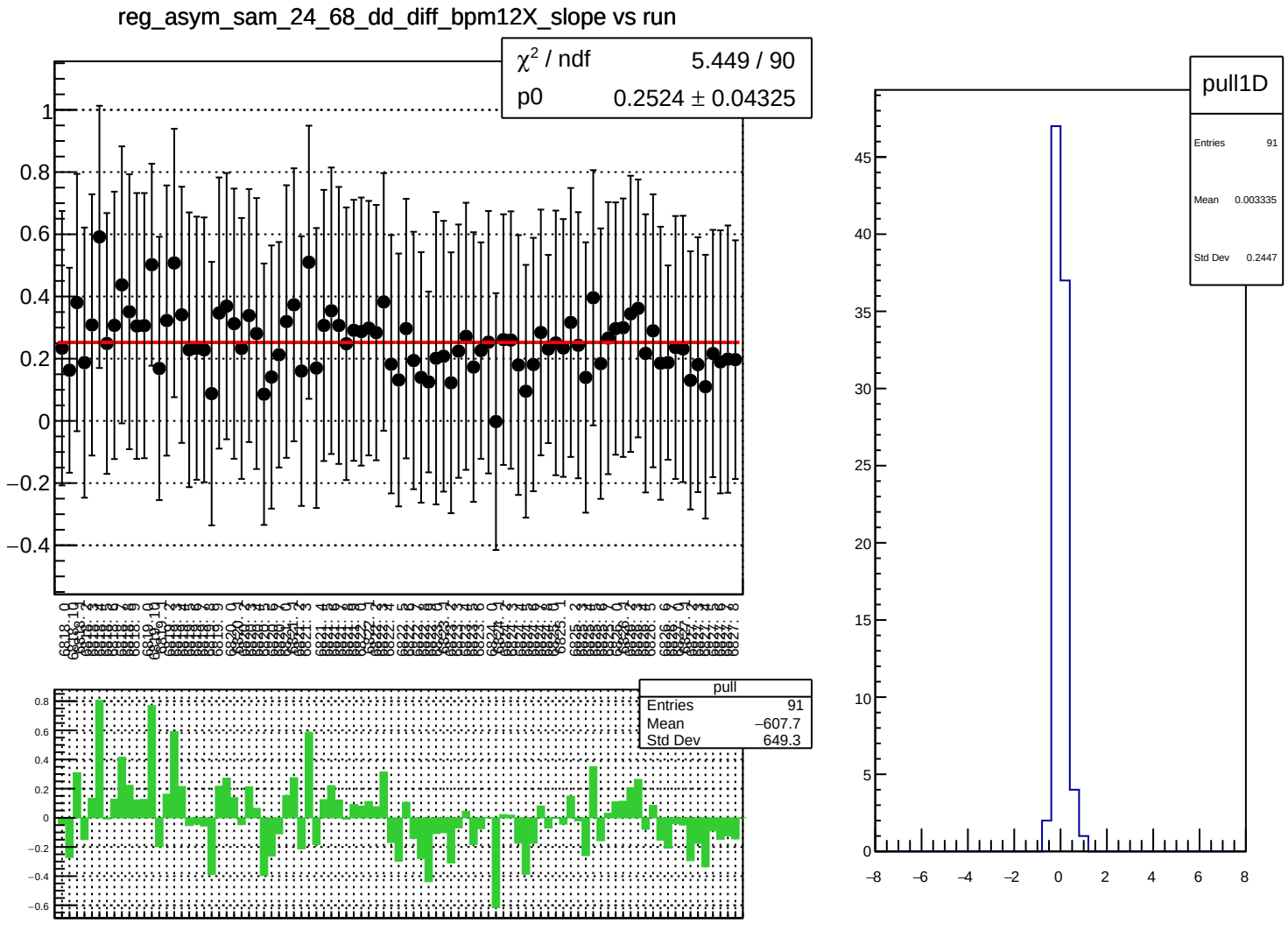

pull1D
Entries 91
Mean −0.001629
Std Dev 0.2416

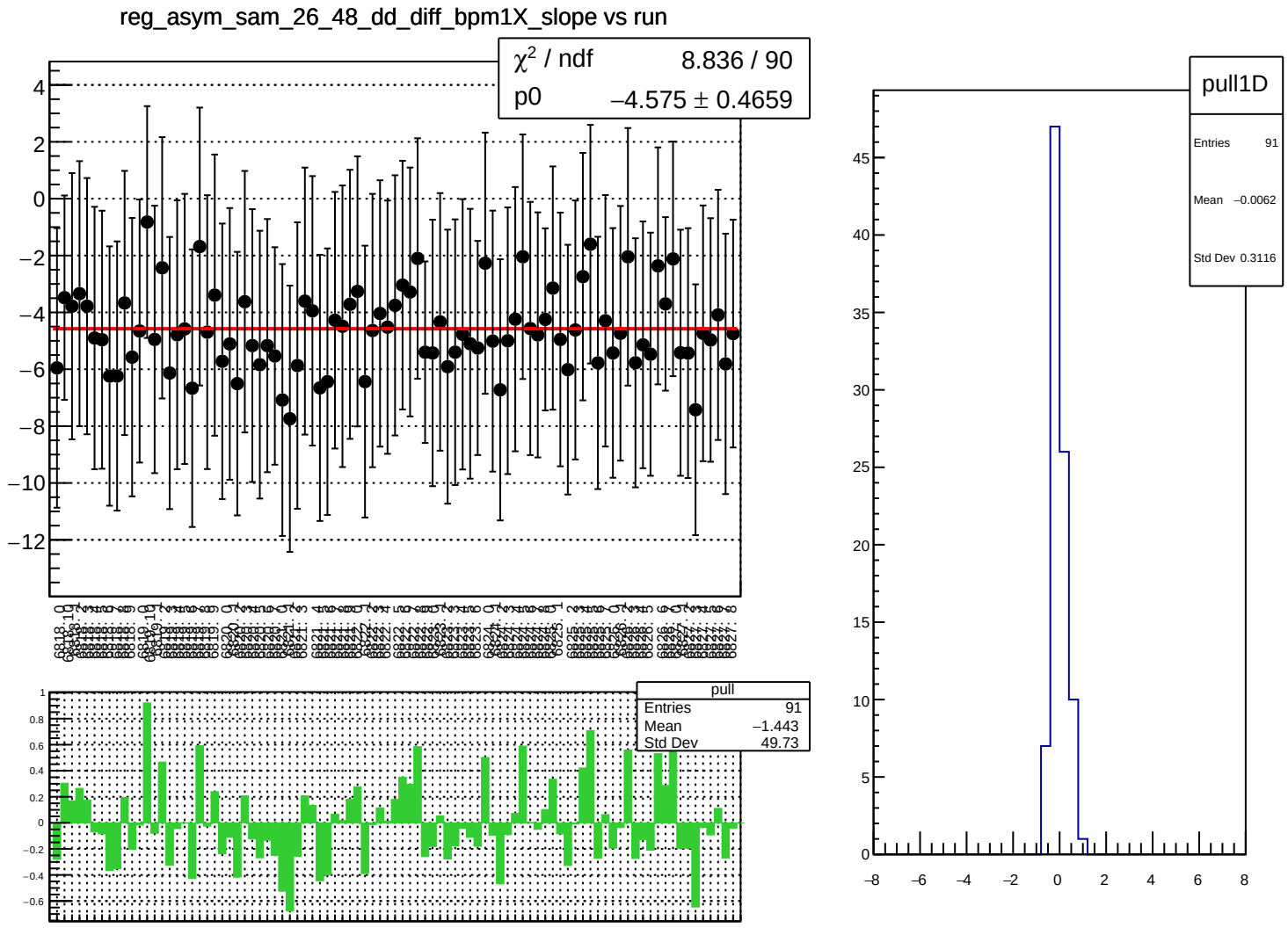

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.43 / 90
p0 −9.633 ± 0.7433
pull
Entries 91
Mean 139.4
Std Dev 90.83
pull1D
Entries 91
Mean −0.03852
Std Dev 0.3523

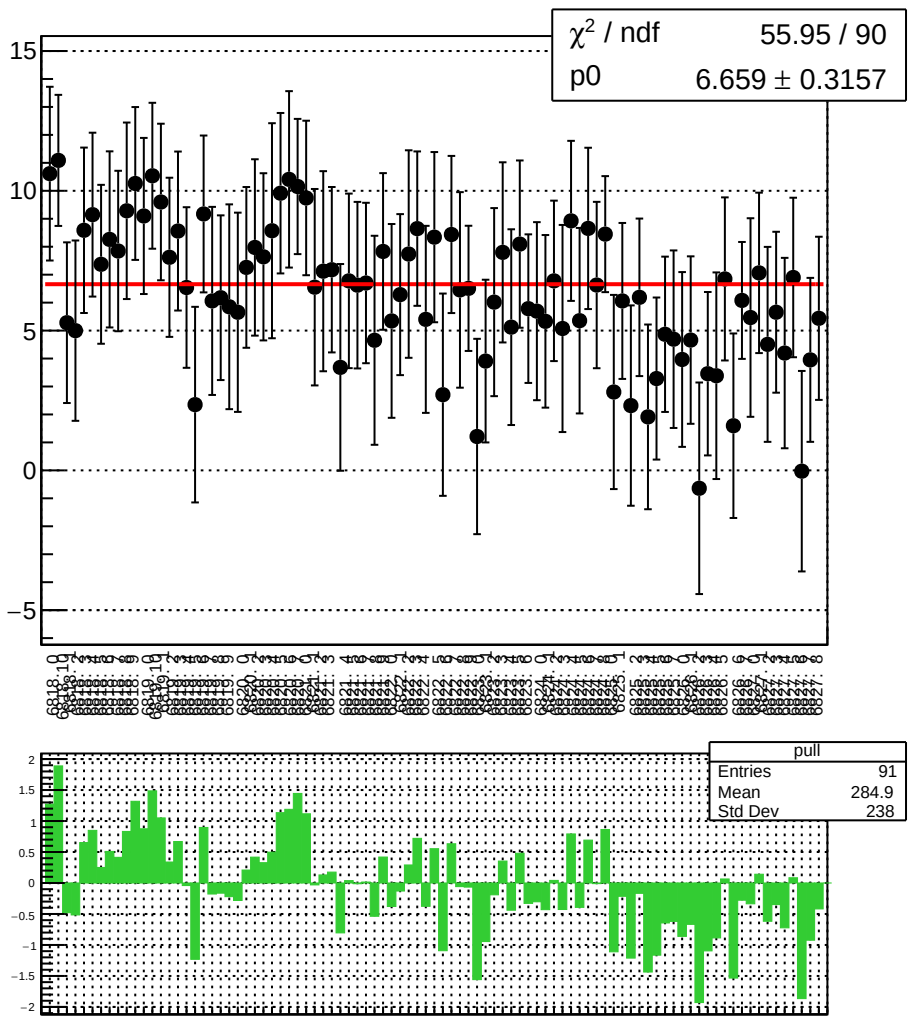

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.997 / 90
p0 −72.74 ± 1.033
pull
Entries 91
Mean 791.1
Std Dev 739.6
pull1D
Entries 91
Mean −0.001422
Std Dev 0.2567

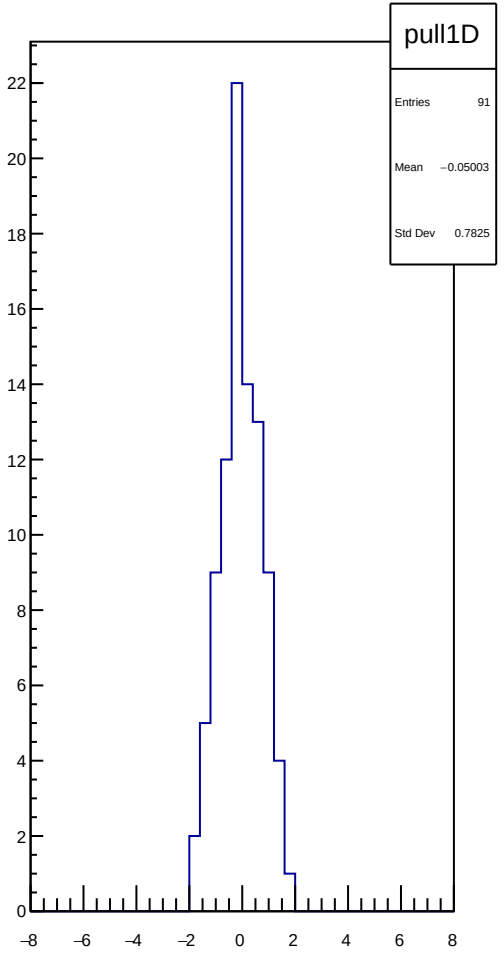

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.26 / 90
p0 −5.126 ± 0.8633
pull
Entries 91
Mean 187
Std Dev 139.5

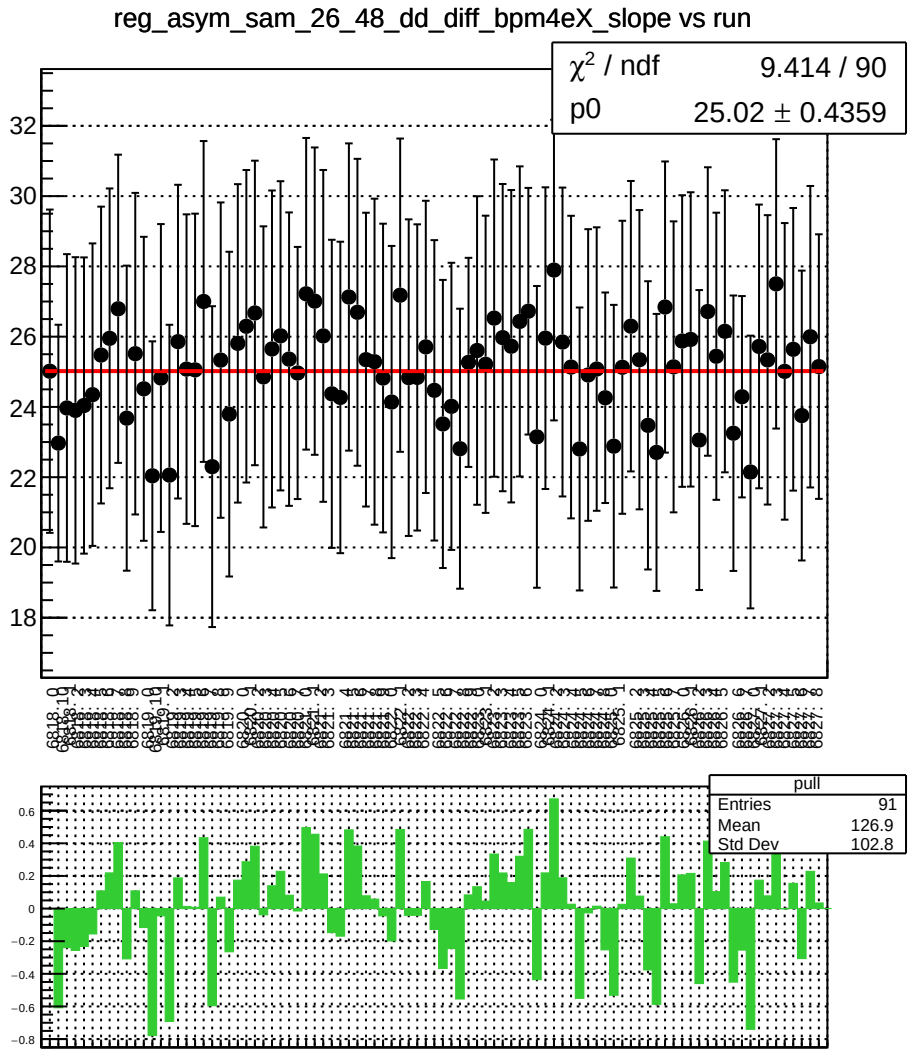

pull1D
Entries 91
Mean 0.02687
Std Dev 0.3661

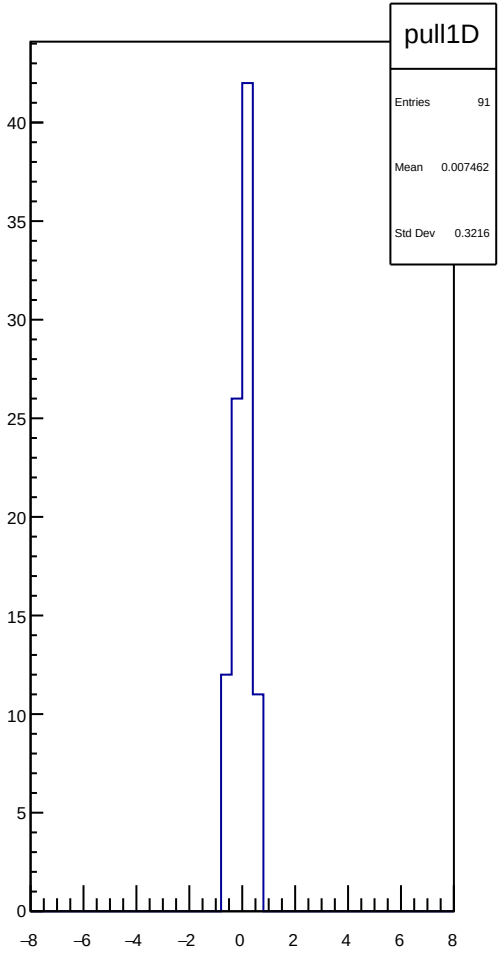

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.449 / 90
p0 0.2524 ± 0.04325
pull
Entries 91
Mean −607.7
Std Dev 649.3
pull1D
Entries 91
Mean 0.003335
Std Dev 0.2447

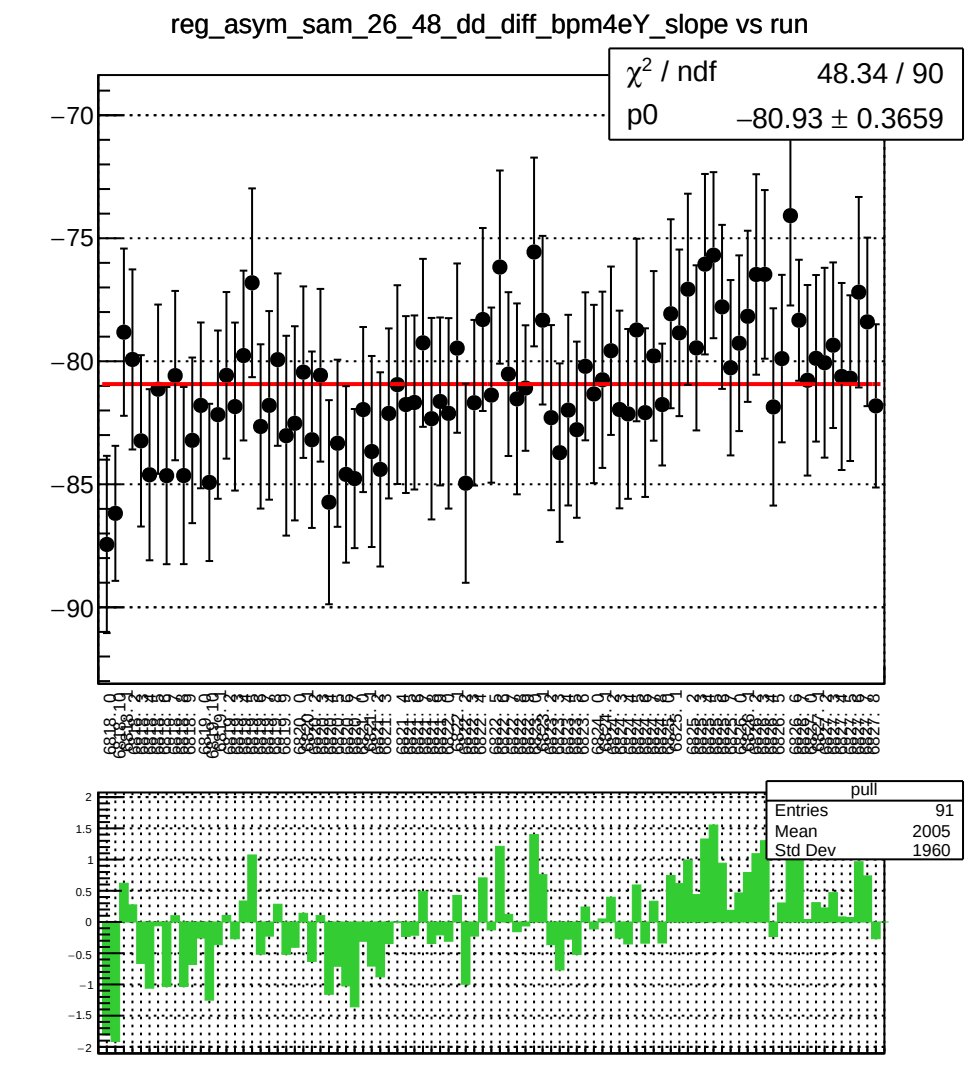

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 8.836 / 90
p0 −4.575 ± 0.4659
pull
Entries 91
Mean −1.443
Std Dev 49.73
pull1D
Entries 91
Mean −0.0062
Std Dev 0.3116

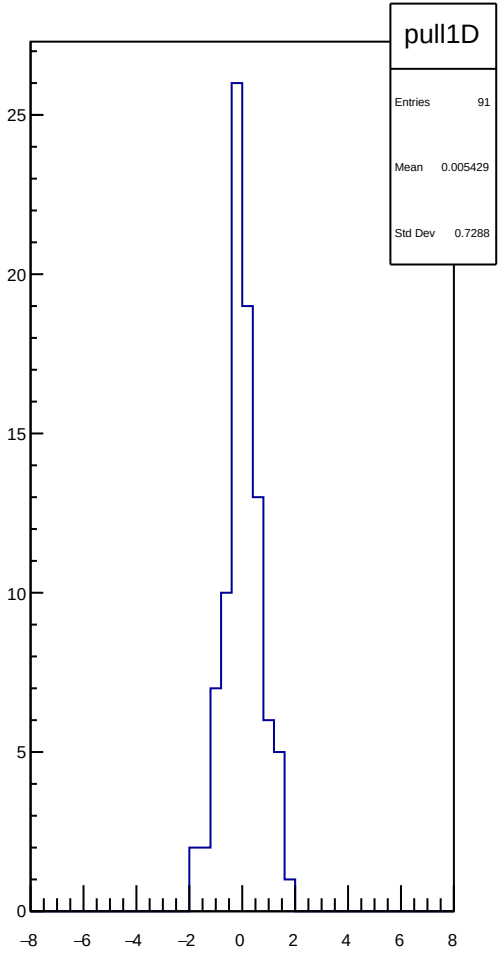

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.95 / 90
p0 6.659 ± 0.3157
pull
Entries 91
Mean 284.9
Std Dev 238

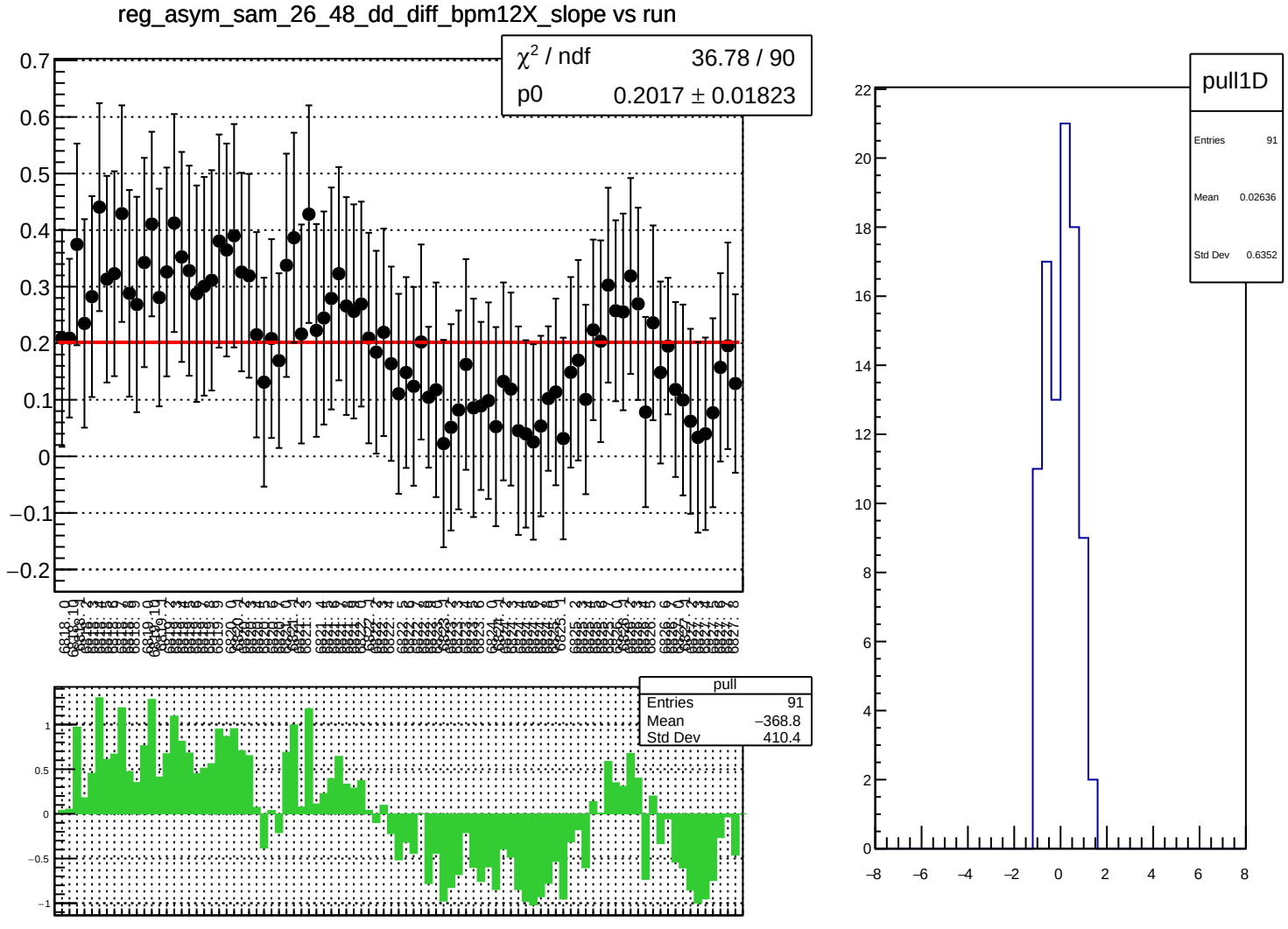

pull1D
Entries 91
Mean −0.05003
Std Dev 0.7825

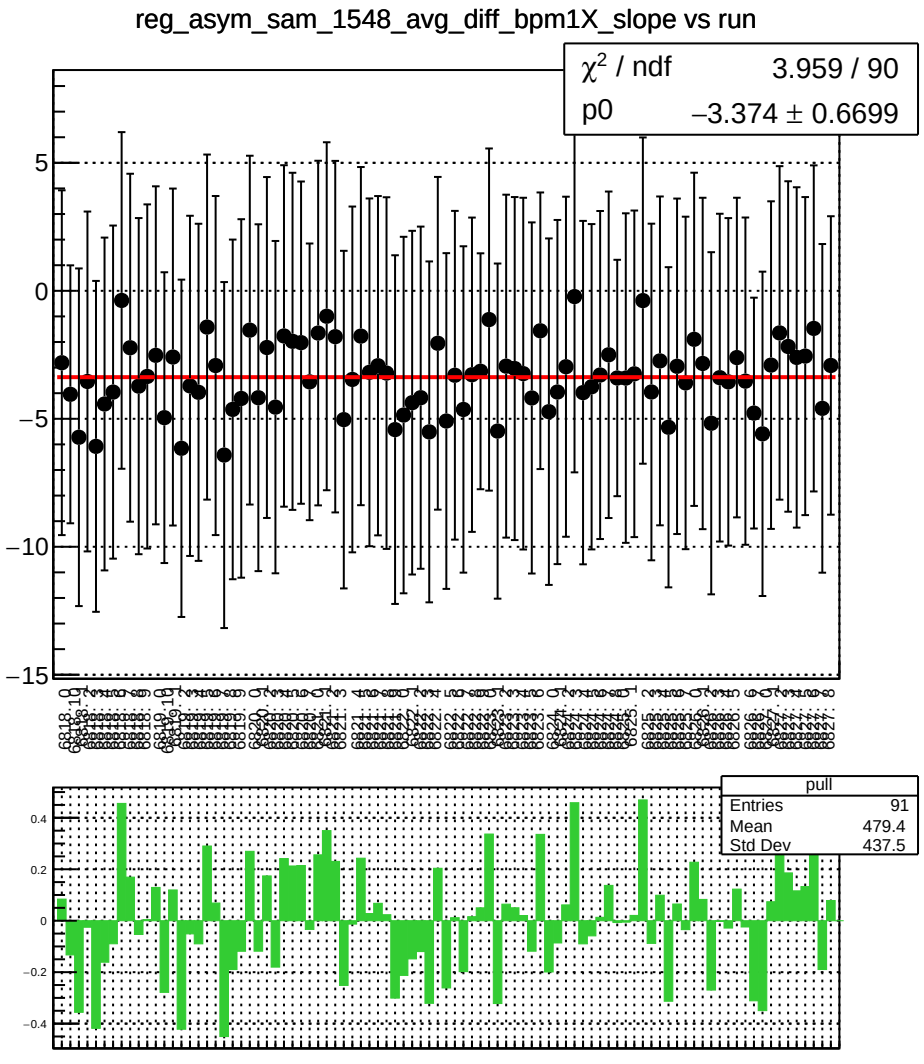

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.414 / 90
p0 25.02 ± 0.4359
pull
Entries 91
Mean 126.9
Std Dev 102.8

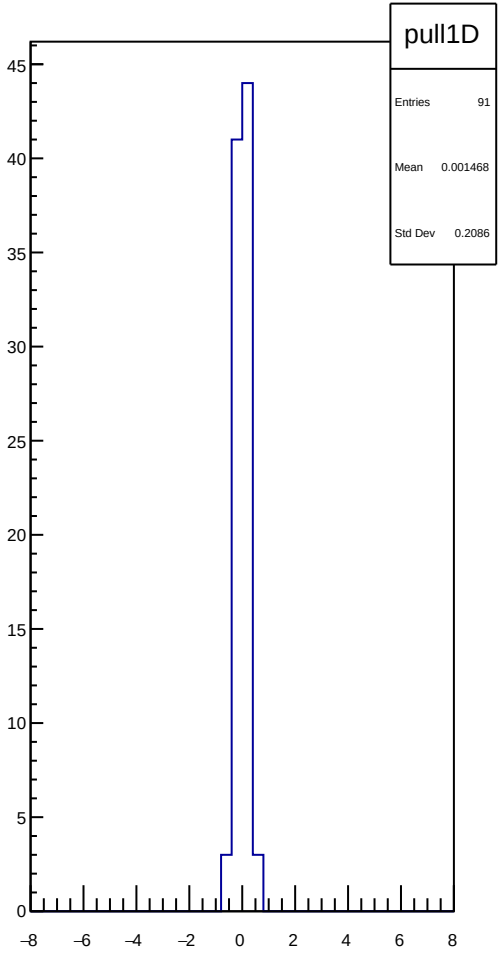

pull1D
Entries 91
Mean 0.007462
Std Dev 0.3216

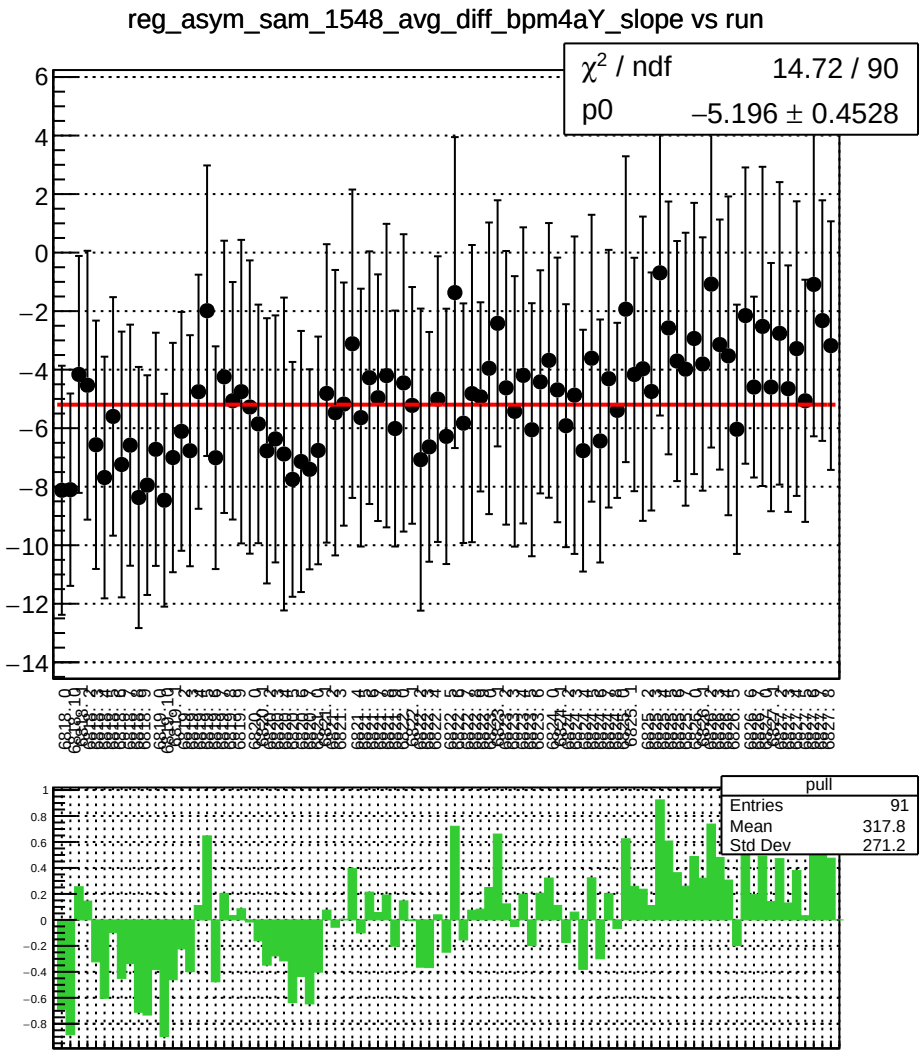

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.34 / 90
p0 −80.93 ± 0.3659
pull
Entries 91
Mean 2005
Std Dev 1960

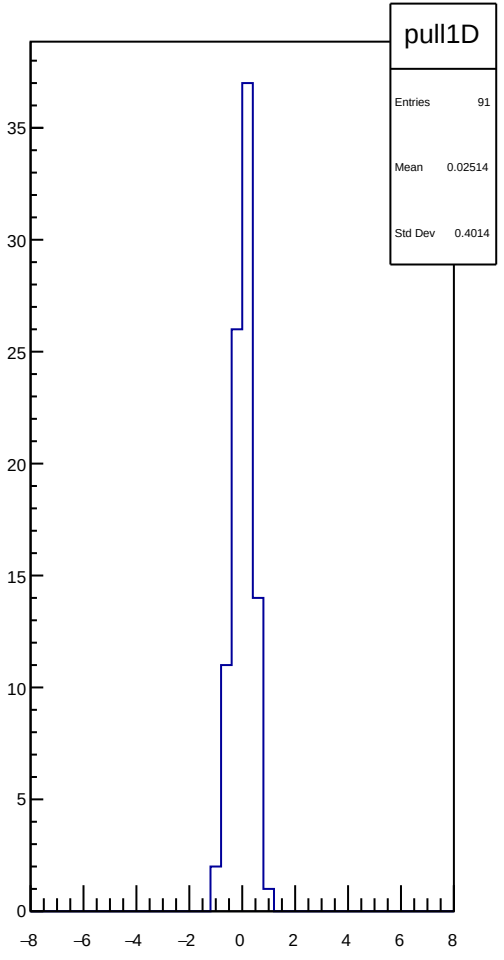

pull1D
Entries 91
Mean 0.005429
Std Dev 0.7288

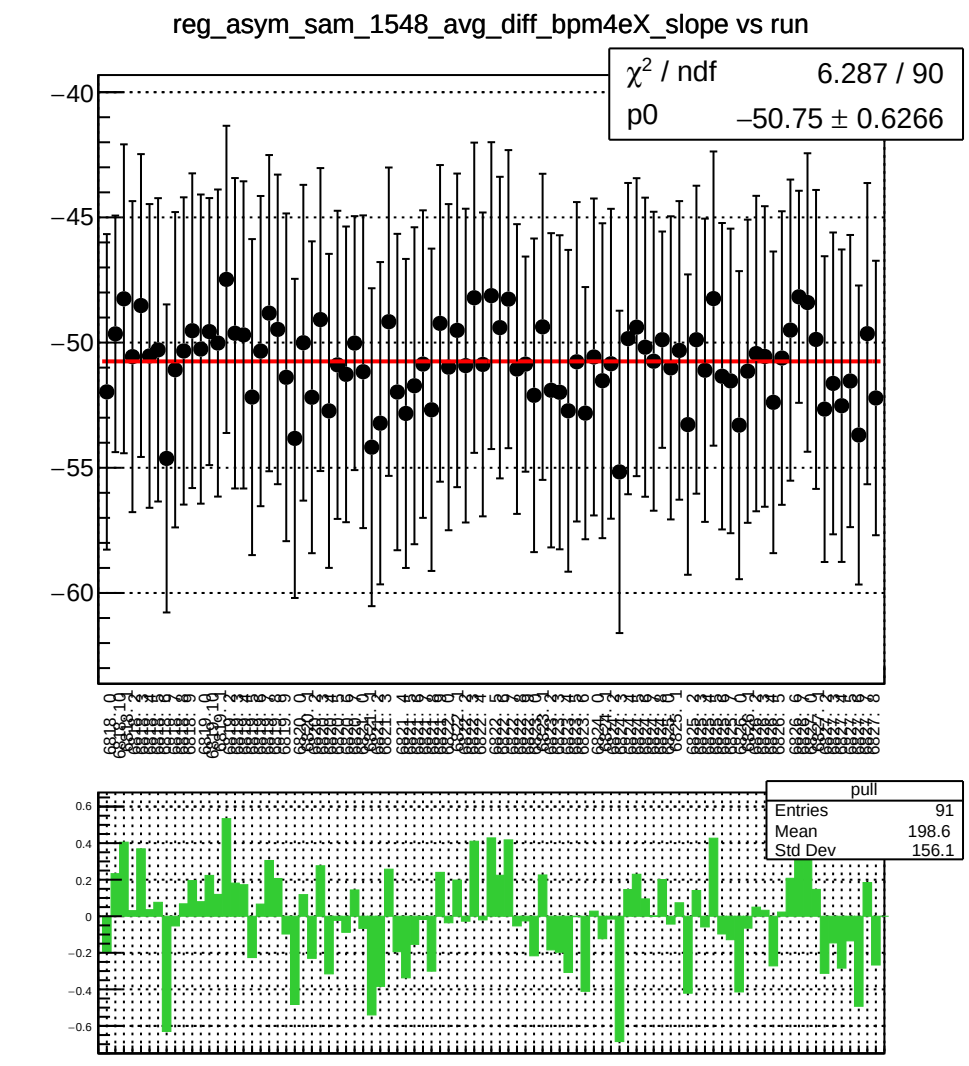

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 36.78 / 90
p0 0.2017 ± 0.01823
pull
Entries 91
Mean −368.8
Std Dev 410.4
pull1D
Entries 91
Mean 0.02636
Std Dev 0.6352

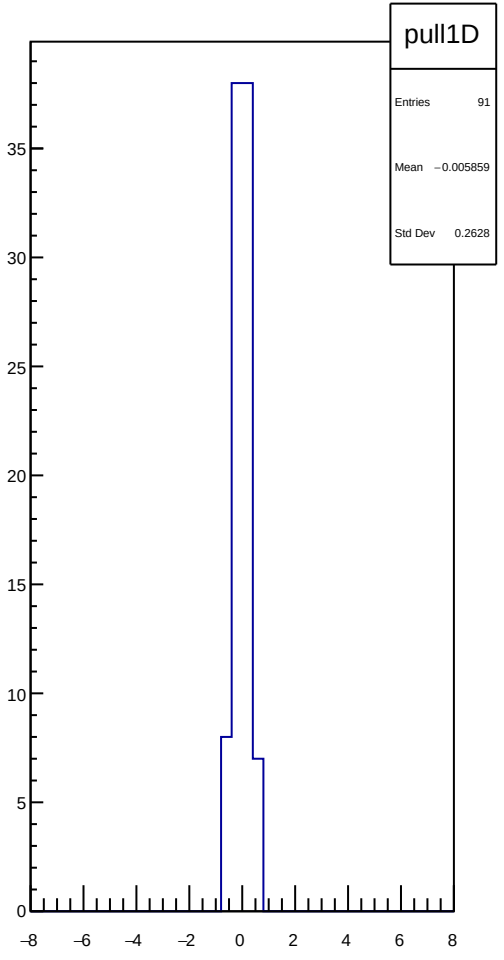

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 3.959 / 90
p0 −3.374 ± 0.6699
pull
Entries 91
Mean 479.4
Std Dev 437.5

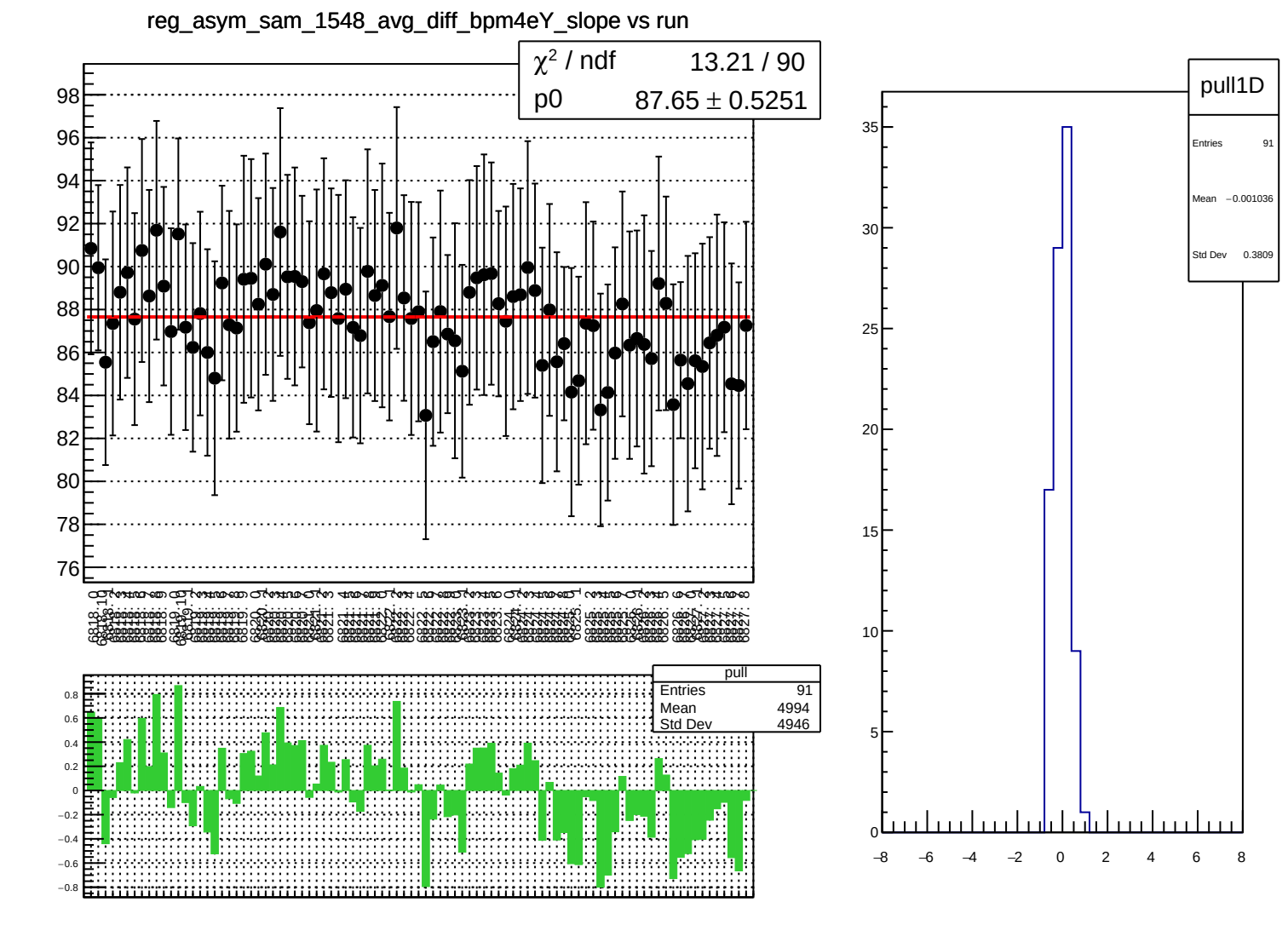

pull1D
Entries 91
Mean 0.001468
Std Dev 0.2086

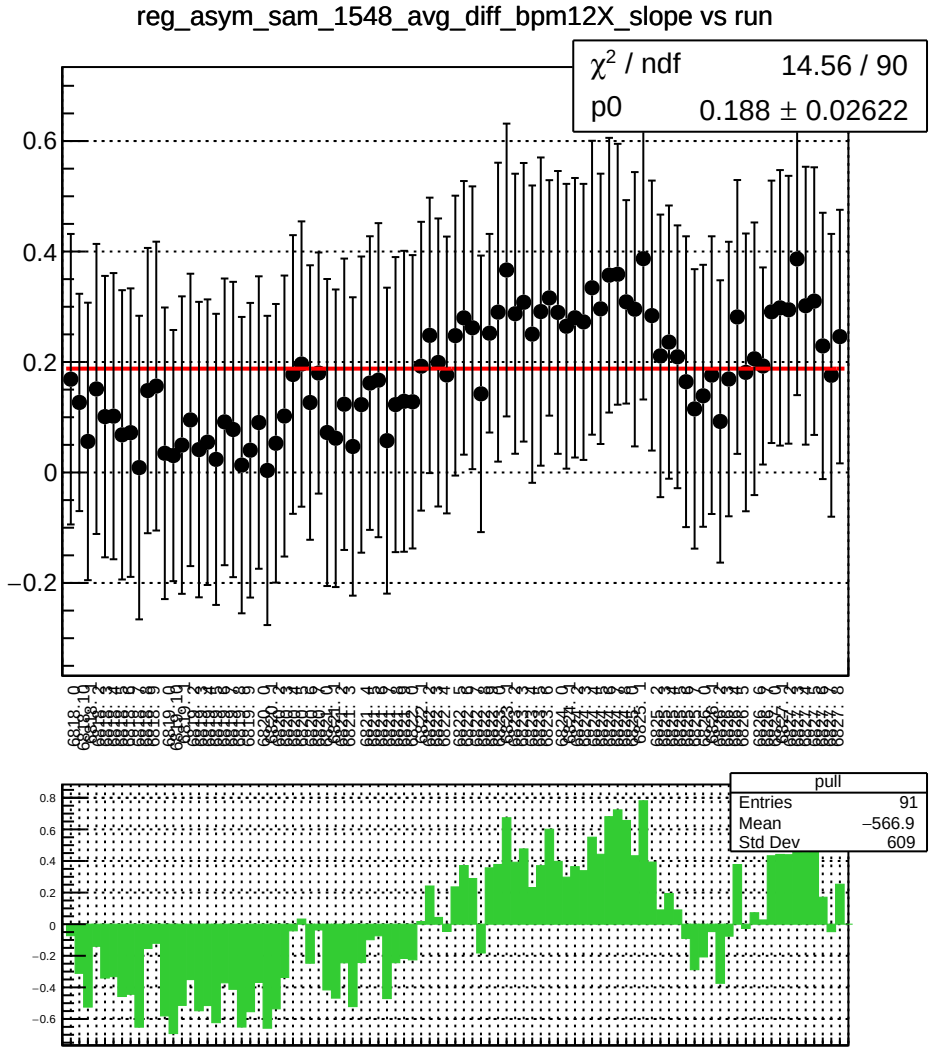

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.72 / 90
p0 −5.196 ± 0.4528
pull
Entries 91
Mean 317.8
Std Dev 271.2

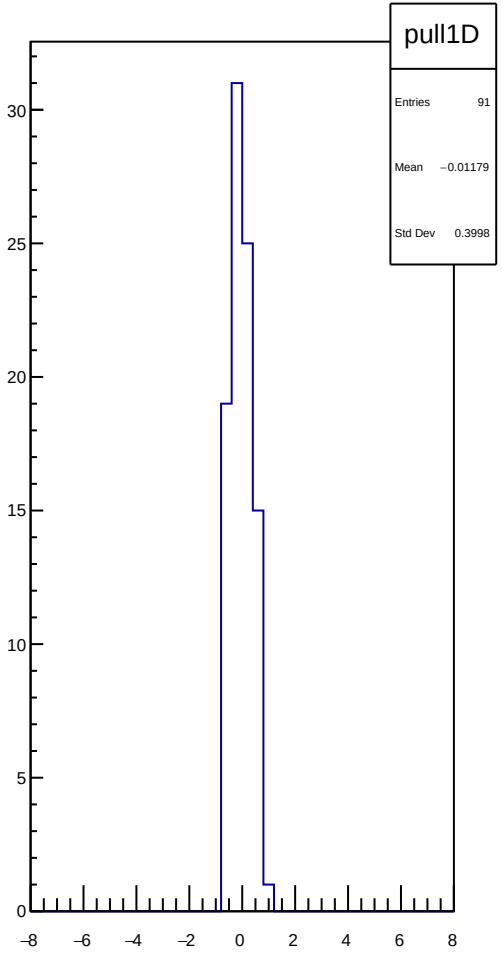

pull1D
Entries 91
Mean 0.02514
Std Dev 0.4014

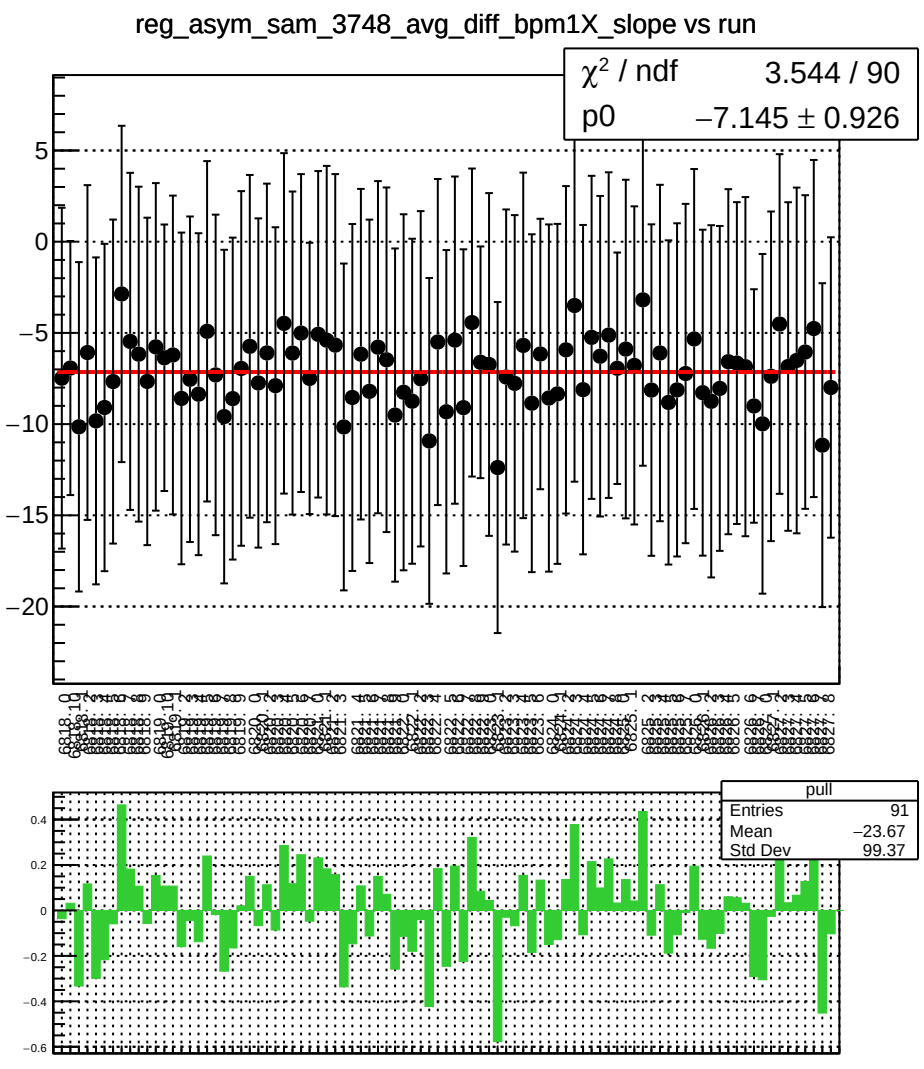

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.287 / 90
p0 −50.75 ± 0.6266
−40
−45
−50
−55
−60
pull
Entries 91
Mean 198.6
Std Dev 156.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

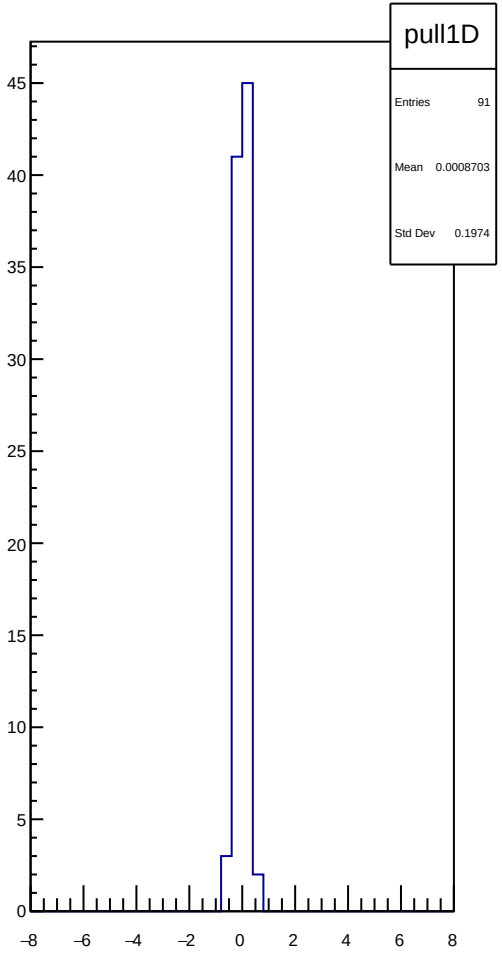

pull1D
Entries 91
Mean −0.005859
Std Dev 0.2628
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

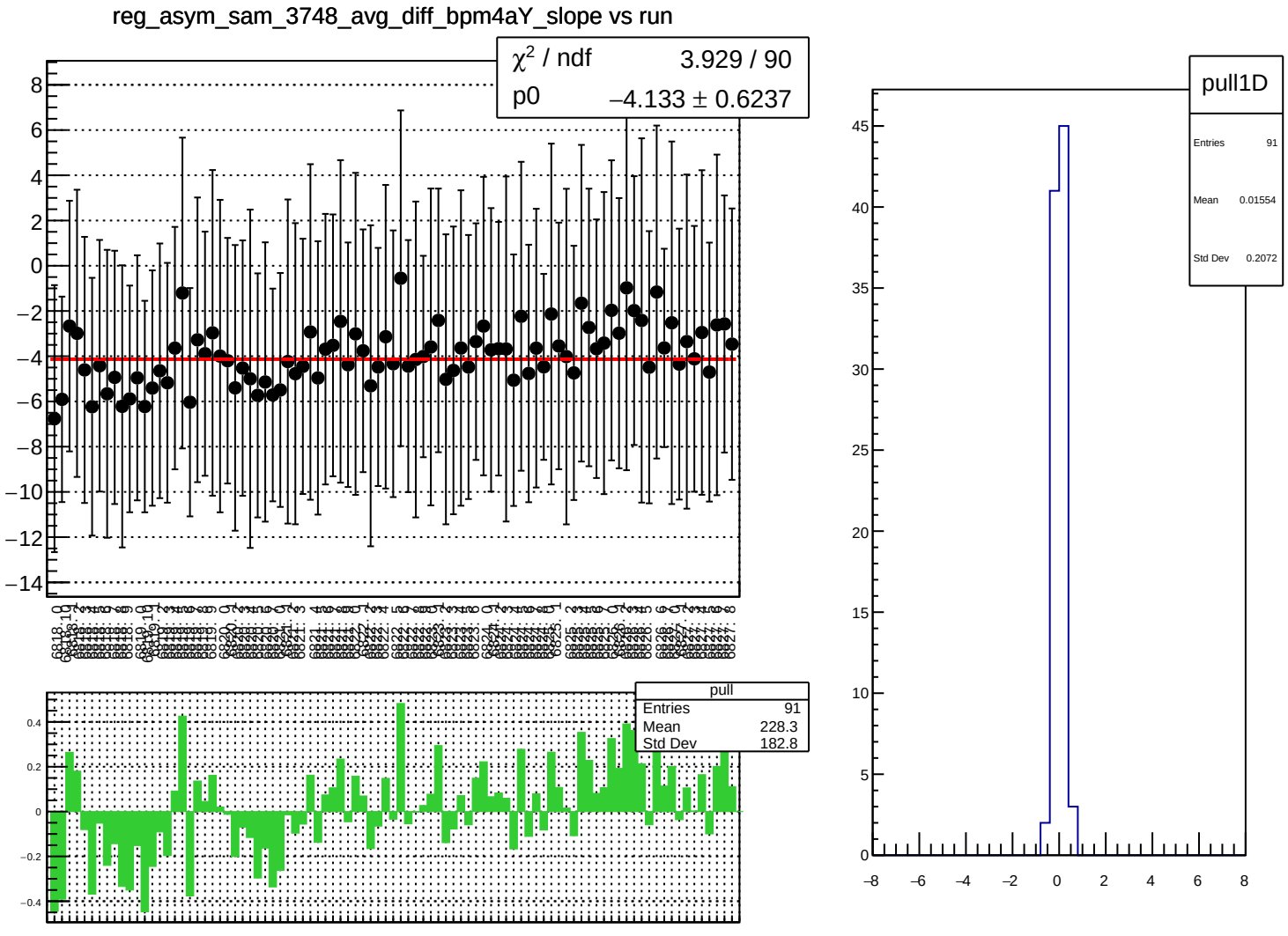

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.21 / 90
p0 87.65 ± 0.5251
pull
Entries 91
Mean 4994
Std Dev 4946
pull1D
Entries 91
Mean −0.001036
Std Dev 0.3809

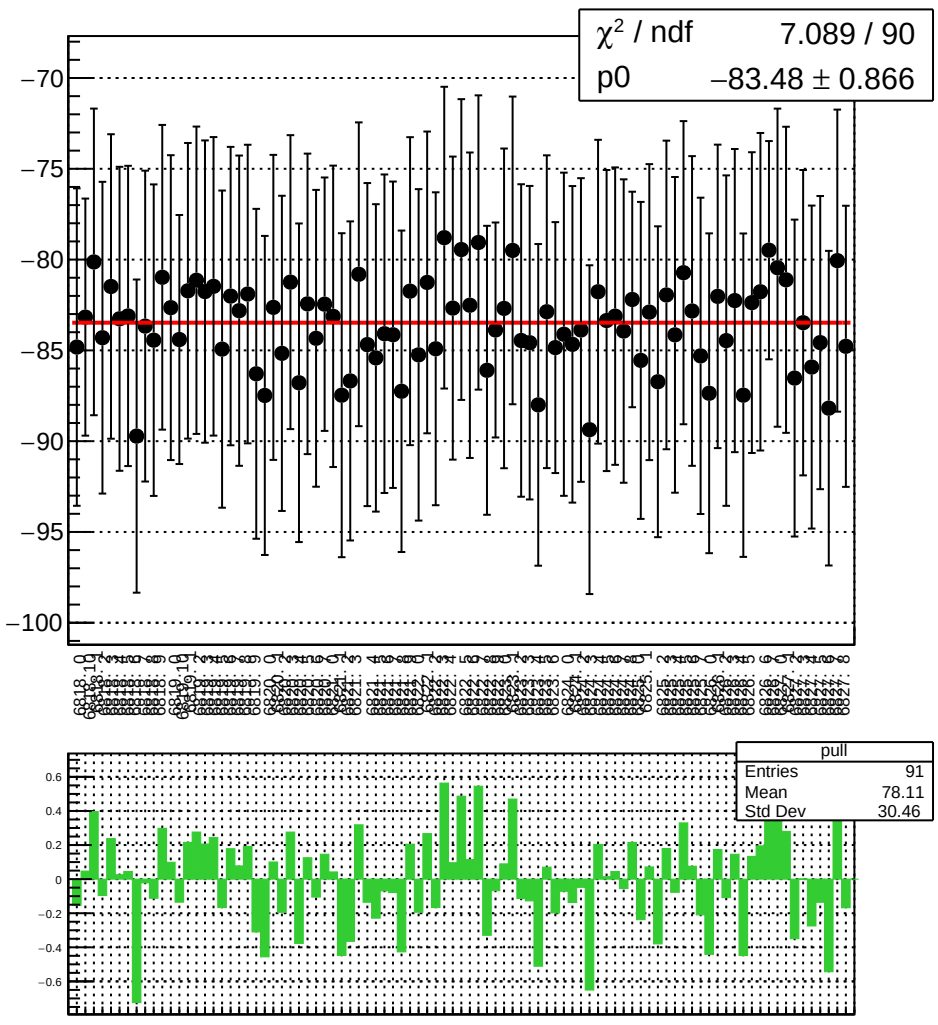

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 14.56 / 90
p0 0.188 ± 0.02622
pull
Entries 91
Mean −566.9
Std Dev 609

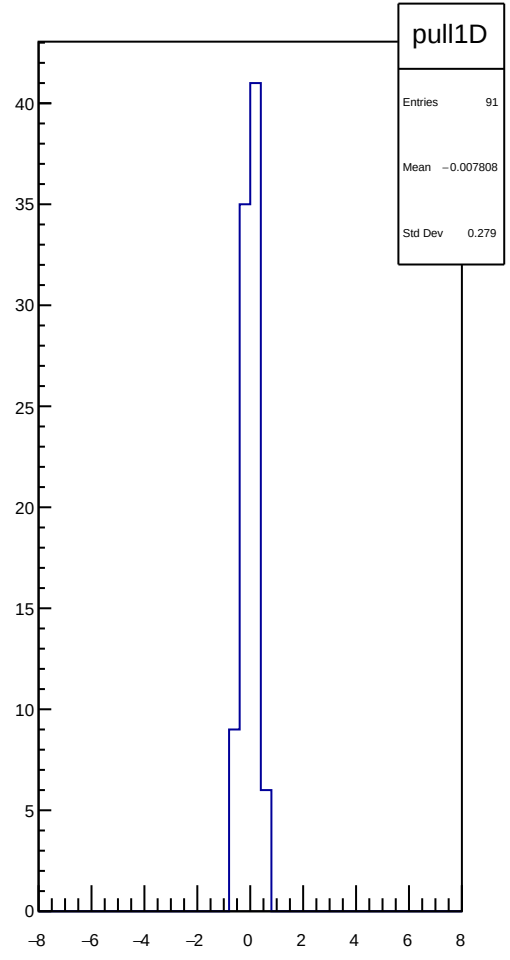

pull1D
Entries 91
Mean −0.01179
Std Dev 0.3998

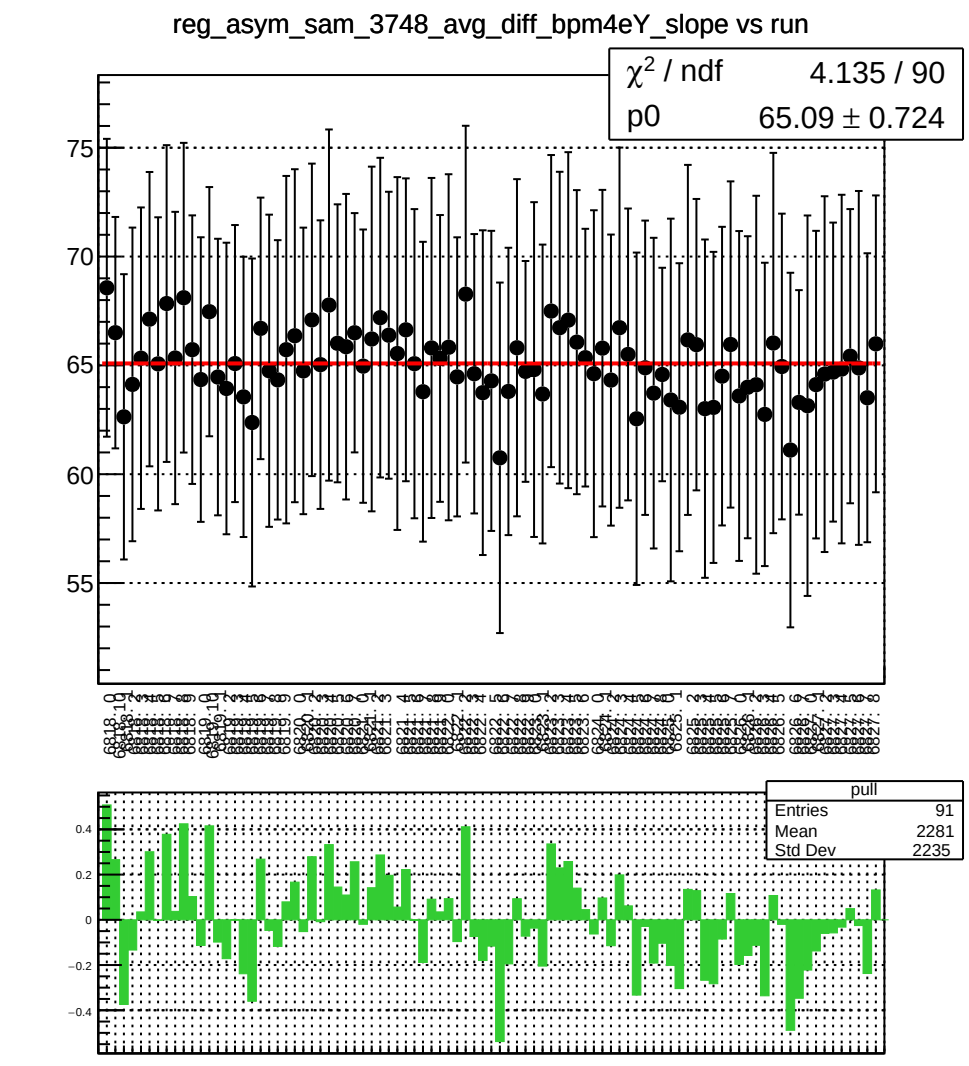

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 3.544 / 90
p0 −7.145 ± 0.926
pull
Entries 91
Mean −23.67
Std Dev 99.37

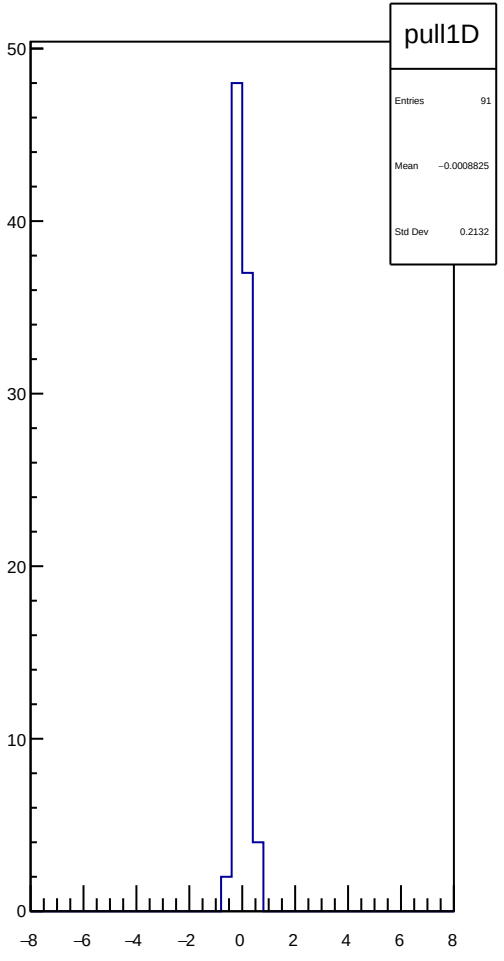

pull1D
Entries 91
Mean 0.0008703
Std Dev 0.1974

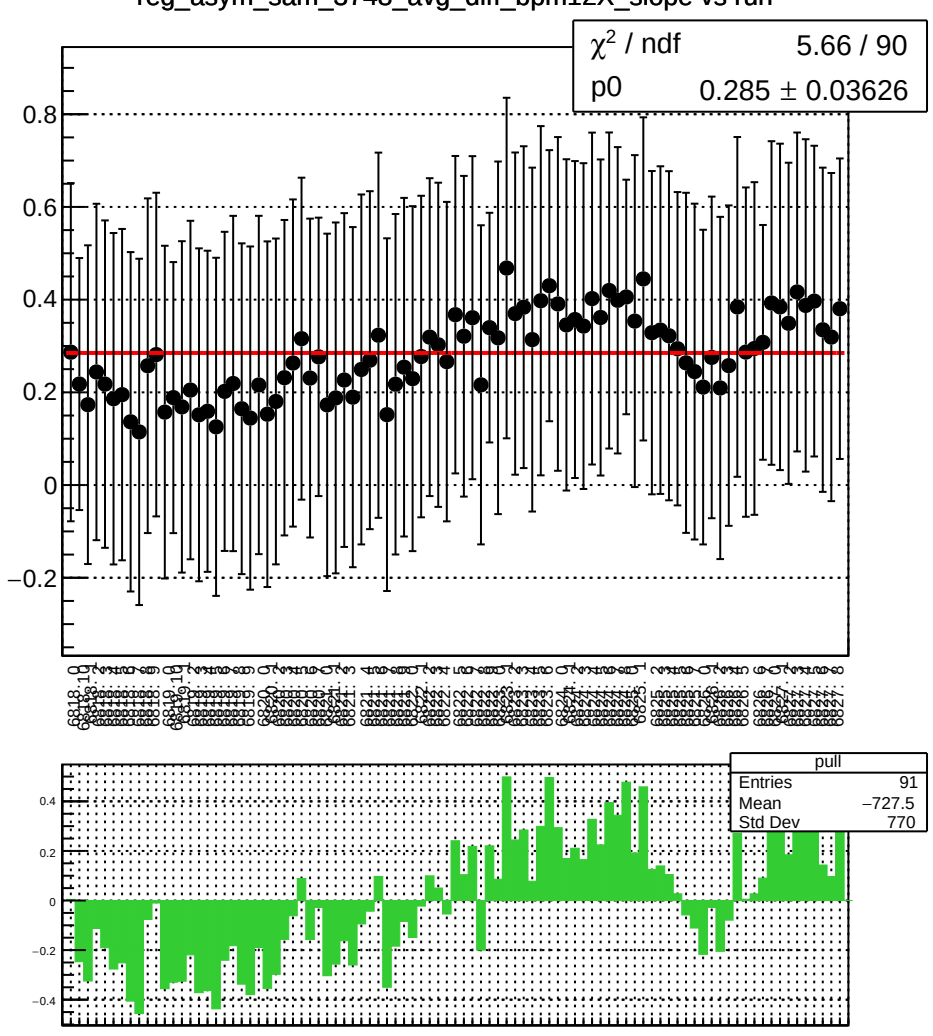

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.929 / 90
p0 −4.133 ± 0.6237
pull
Entries 91
Mean 228.3
Std Dev 182.8
pull1D
Entries 91
Mean 0.01554
Std Dev 0.2072

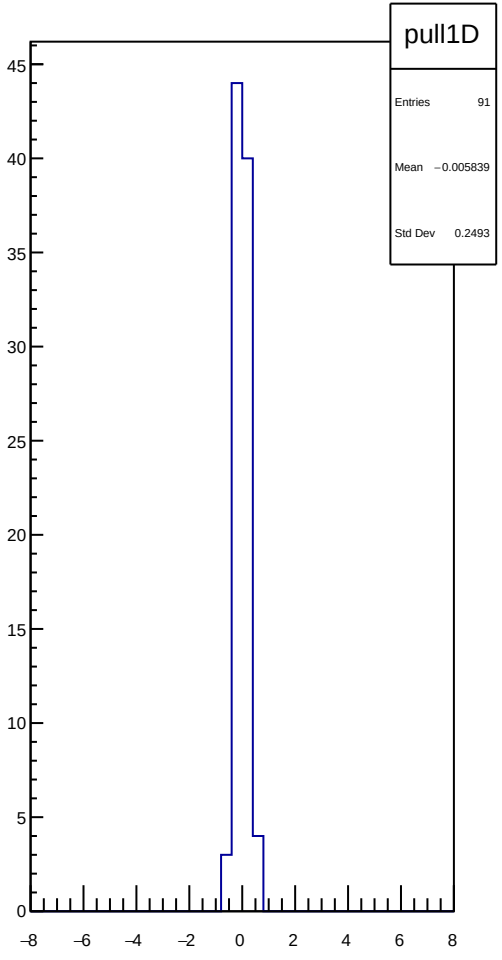

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.089 / 90
p0 −83.48 ± 0.866
pull
Entries 91
Mean 78.11
Std Dev 30.46

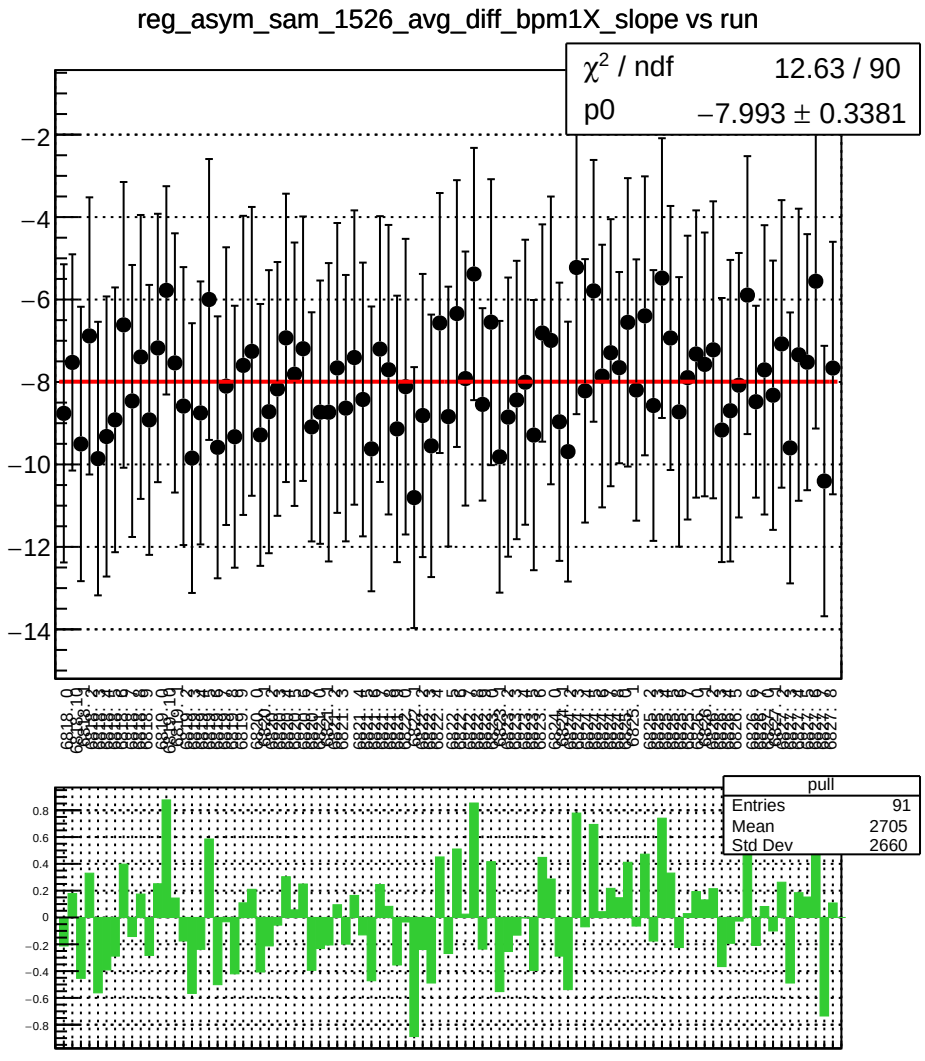

pull1D
Entries 91
Mean −0.007808
Std Dev 0.279

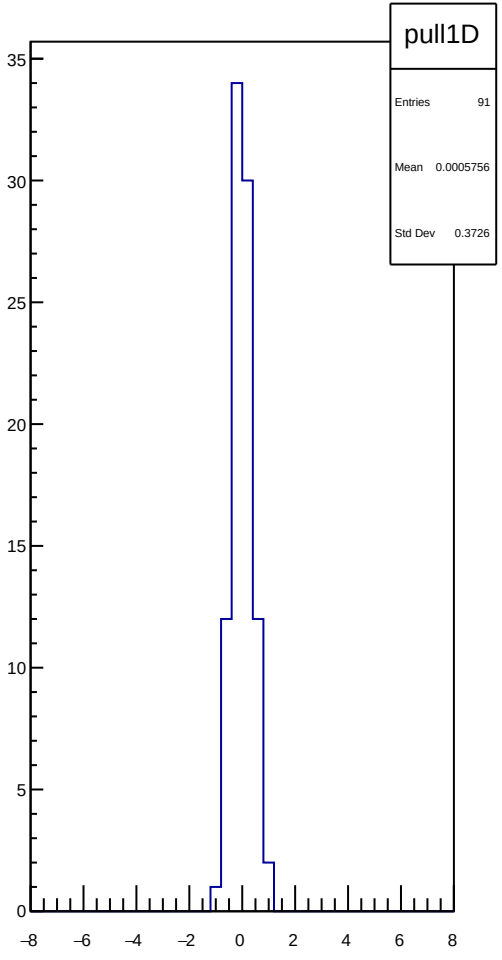

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.135 / 90
p0 65.09 ± 0.724
pull
Entries 91
Mean 2281
Std Dev 2235

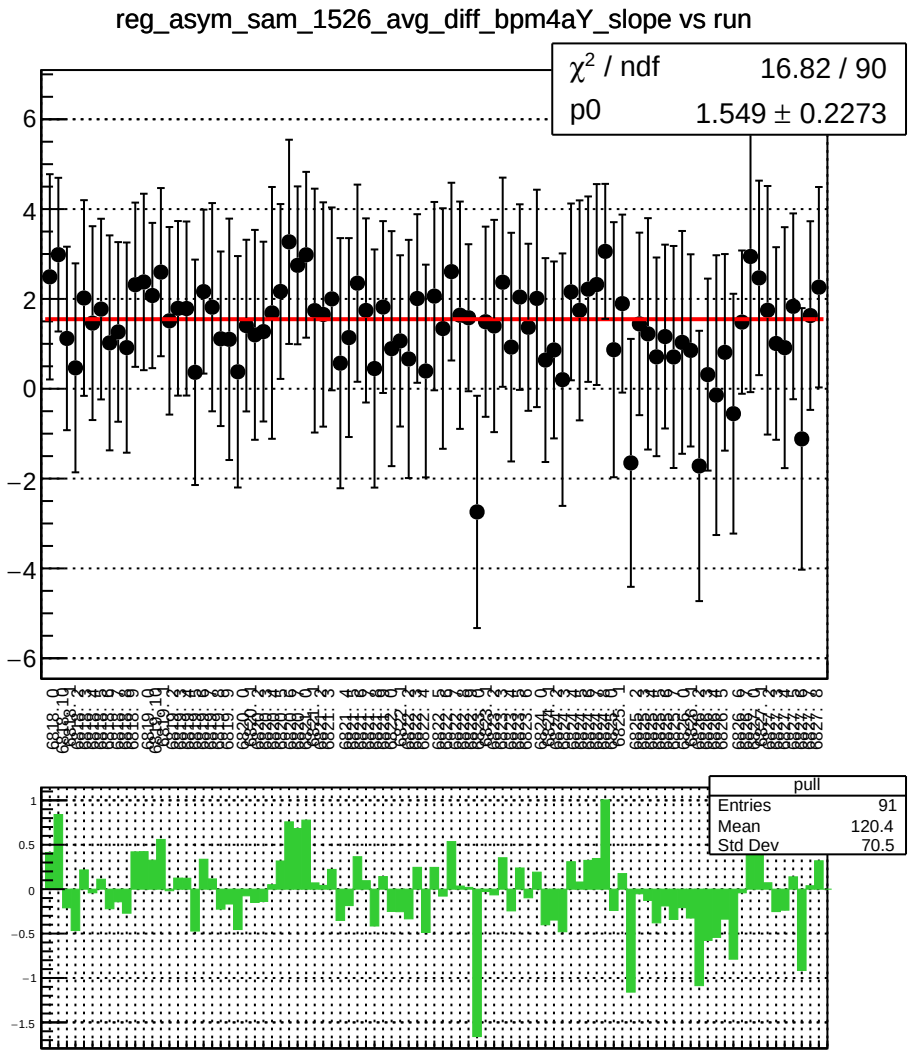

pull1D
Entries 91
Mean −0.0008825
Std Dev 0.2132

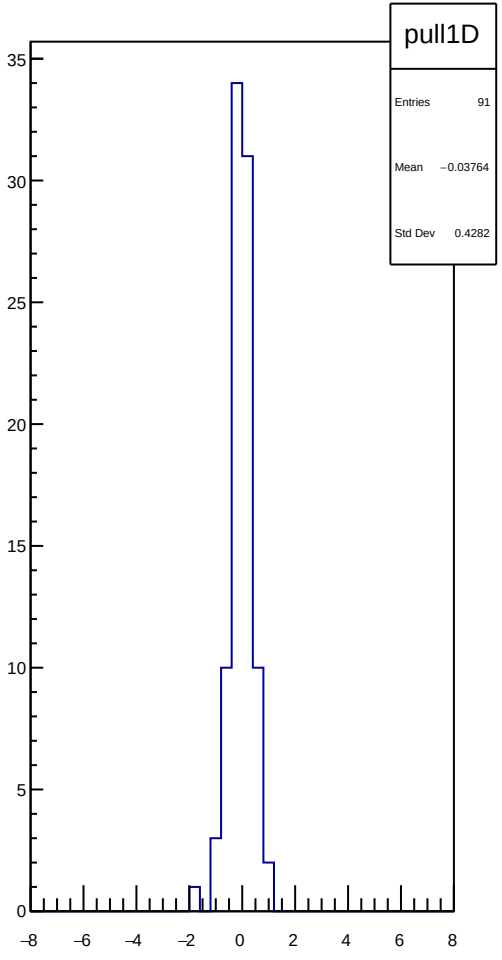

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 5.66 / 90
p0 0.285 ± 0.03626
pull
Entries 91
Mean −727.5
Std Dev 770

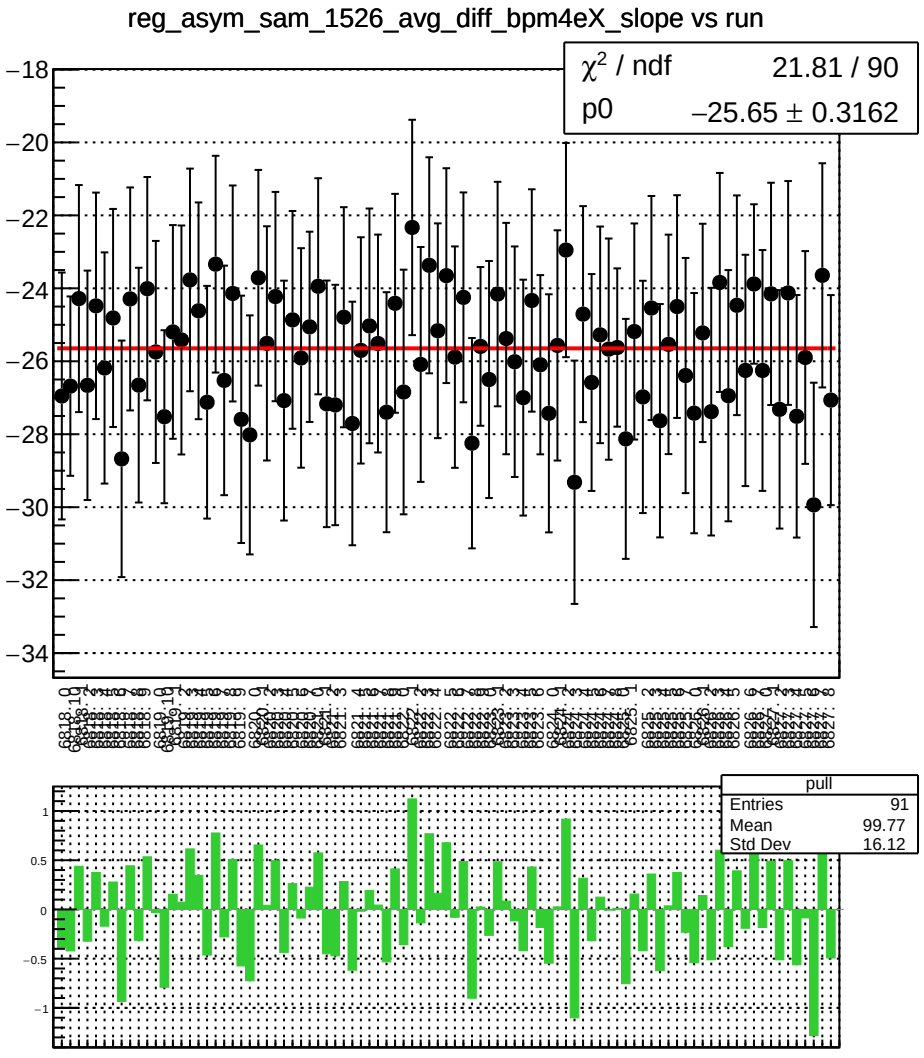

pull1D
Entries 91
Mean −0.005839
Std Dev 0.2493

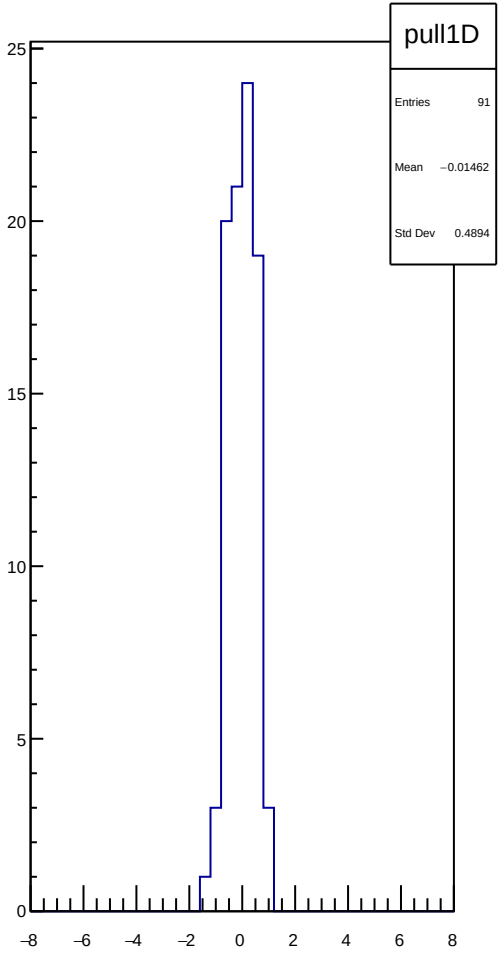

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 12.63 / 90
p0 −7.993 ± 0.3381
pull
Entries 91
Mean 2705
Std Dev 2660

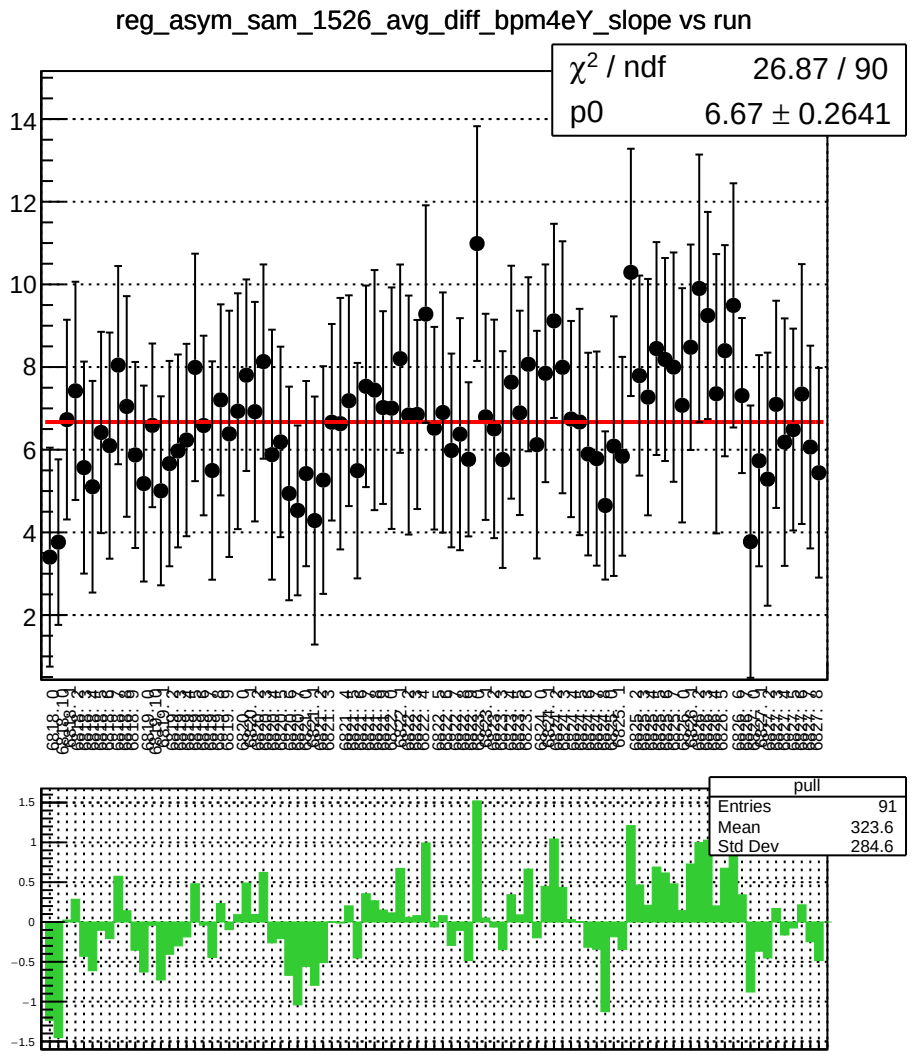

pull1D
Entries 91
Mean 0.0005756
Std Dev 0.3726

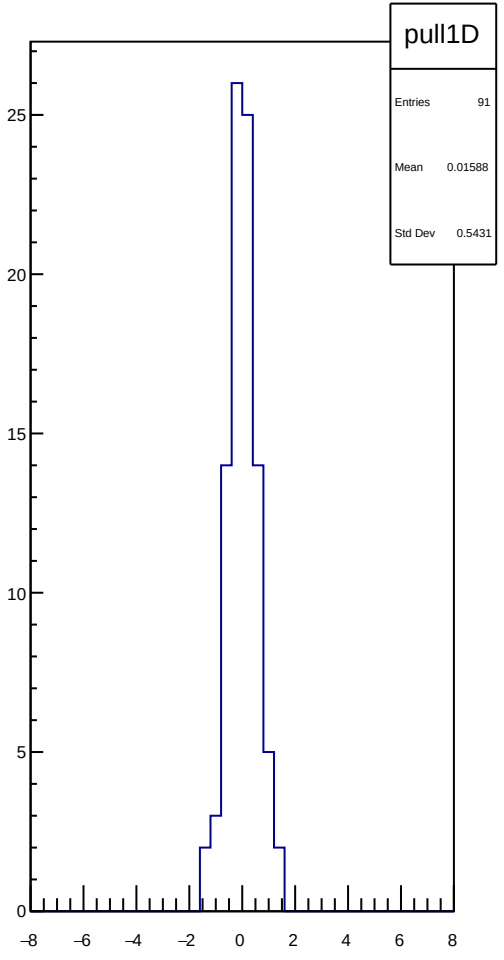

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.82 / 90
p0 1.549 ± 0.2273
pull
Entries 91
Mean 120.4
Std Dev 70.5

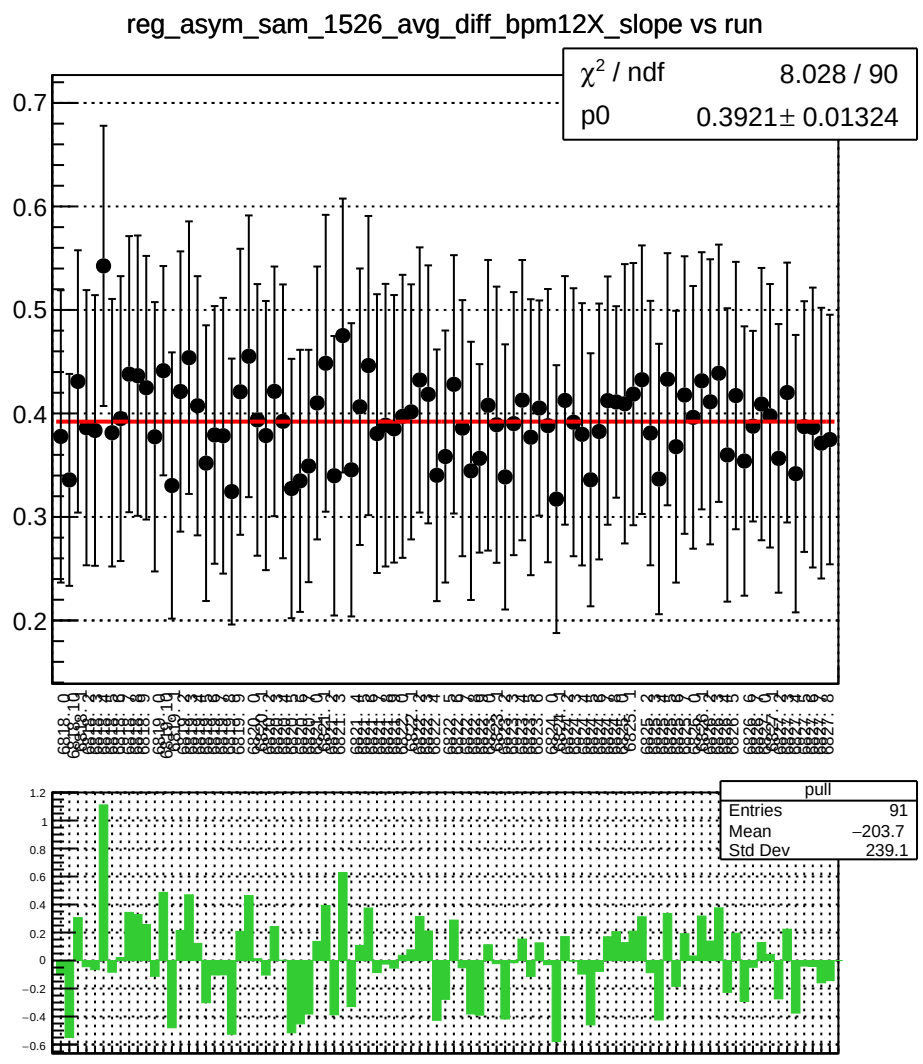

pull1D
Entries 91
Mean −0.03764
Std Dev 0.4282

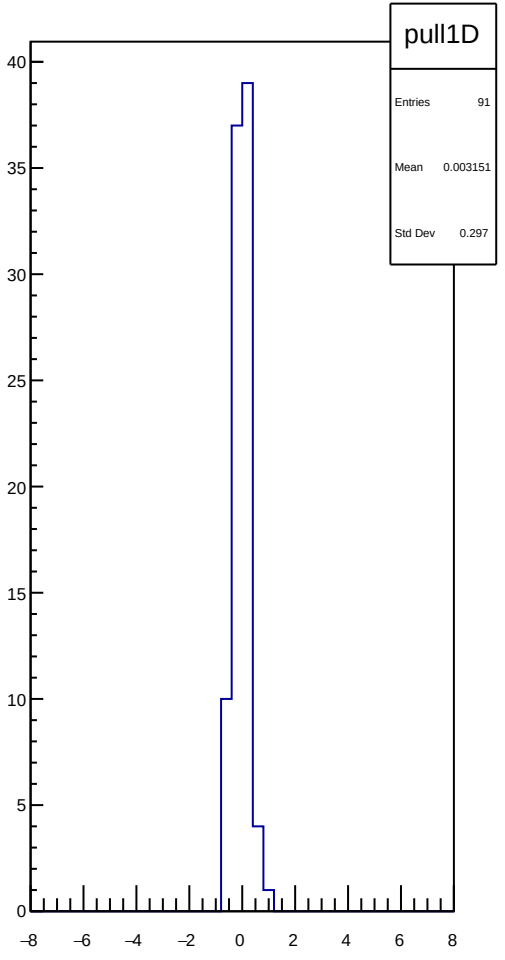

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.81 / 90
p0 −25.65 ± 0.3162
pull
Entries 91
Mean 99.77
Std Dev 16.12

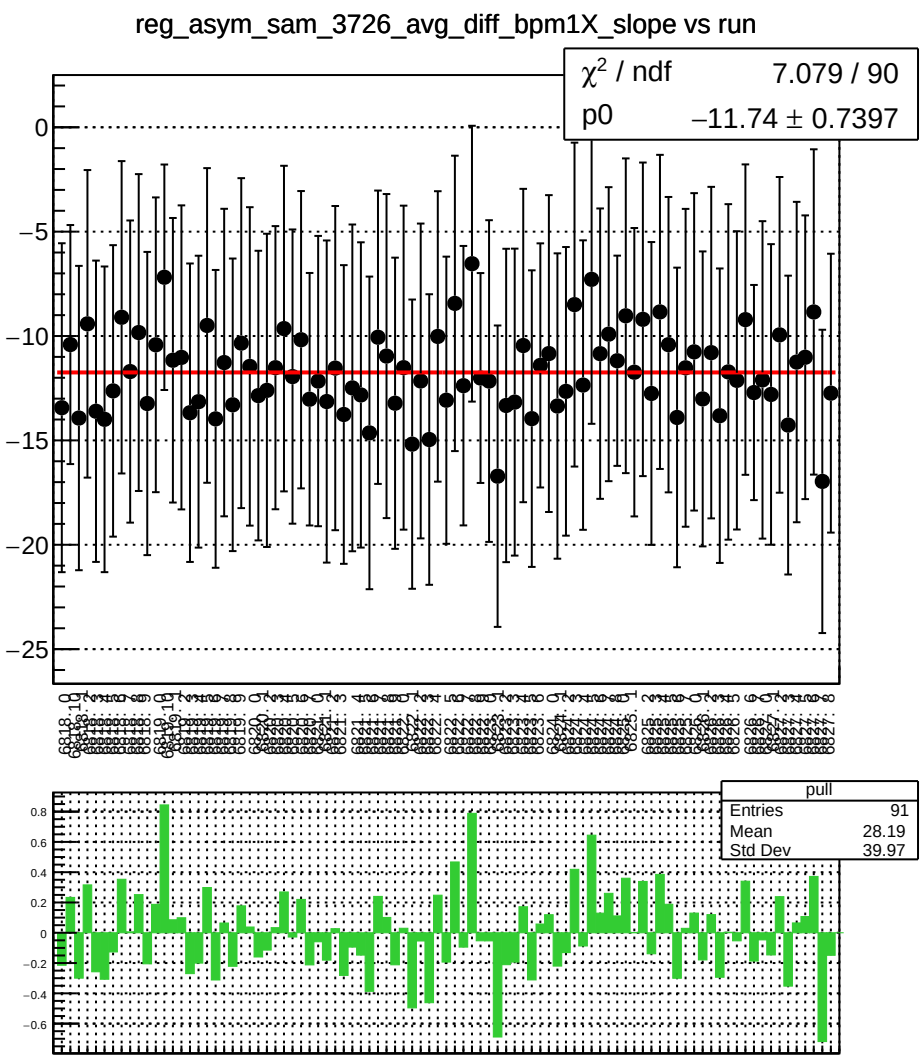

pull1D
Entries 91
Mean −0.01462
Std Dev 0.4894

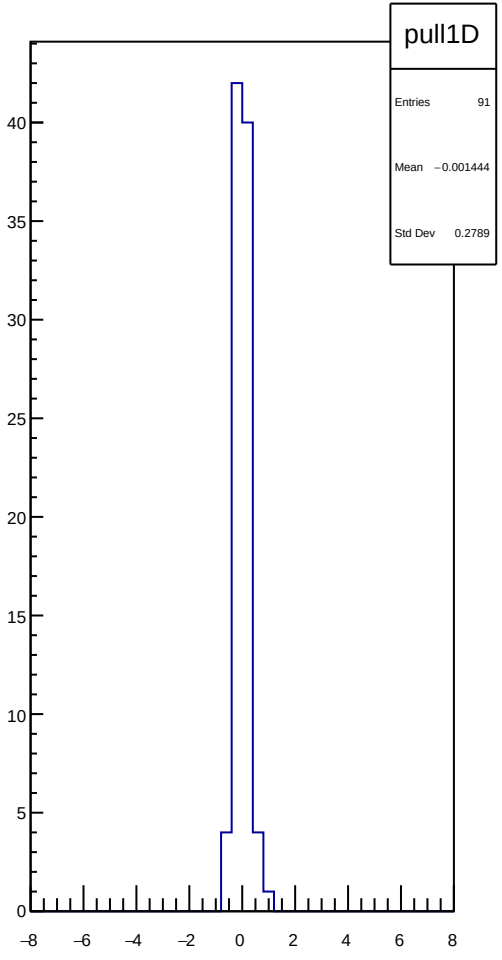

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.87 / 90
p0 6.67 ± 0.2641
pull
Entries 91
Mean 323.6
Std Dev 284.6

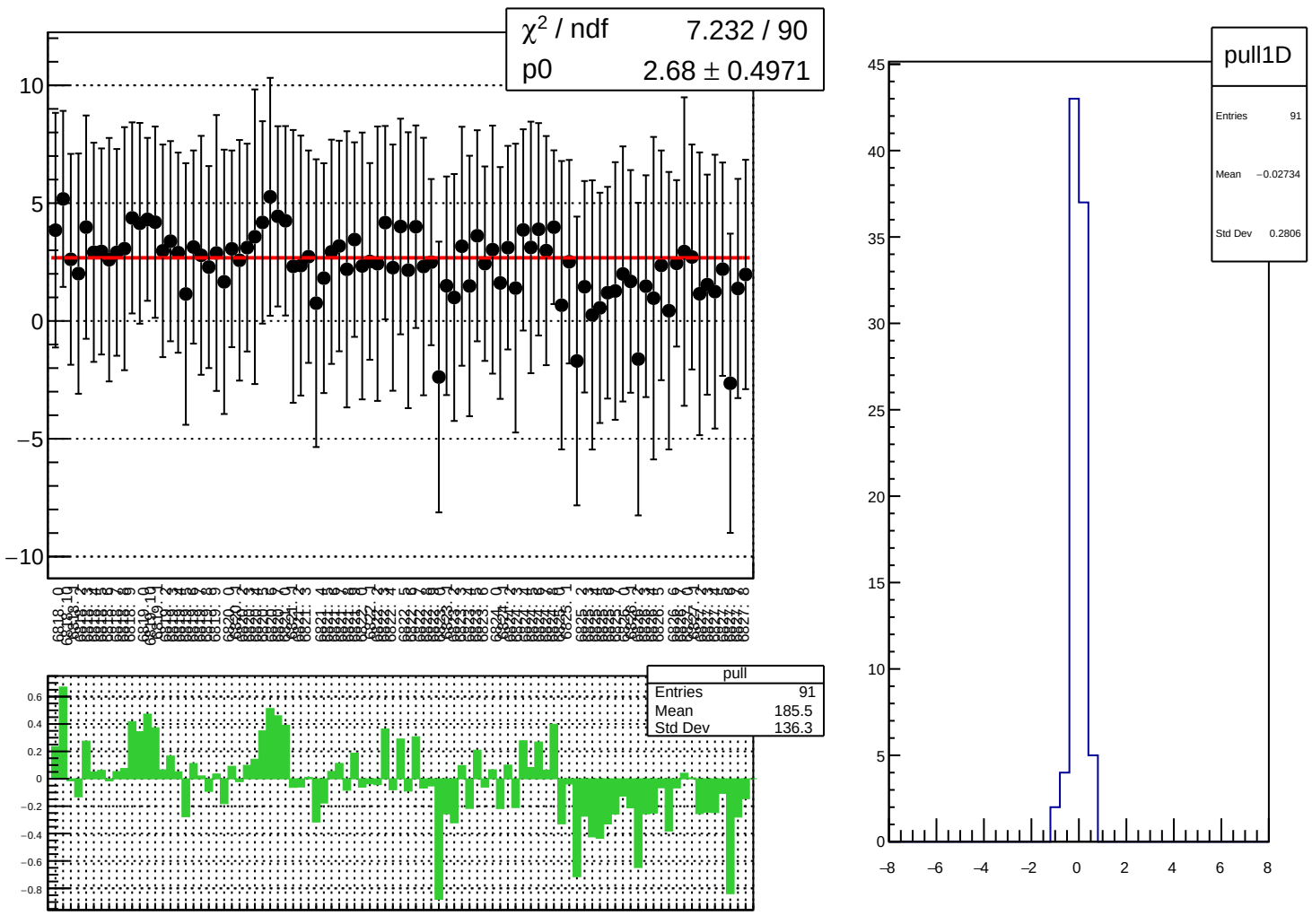

pull1D
Entries 91
Mean 0.01588
Std Dev 0.5431

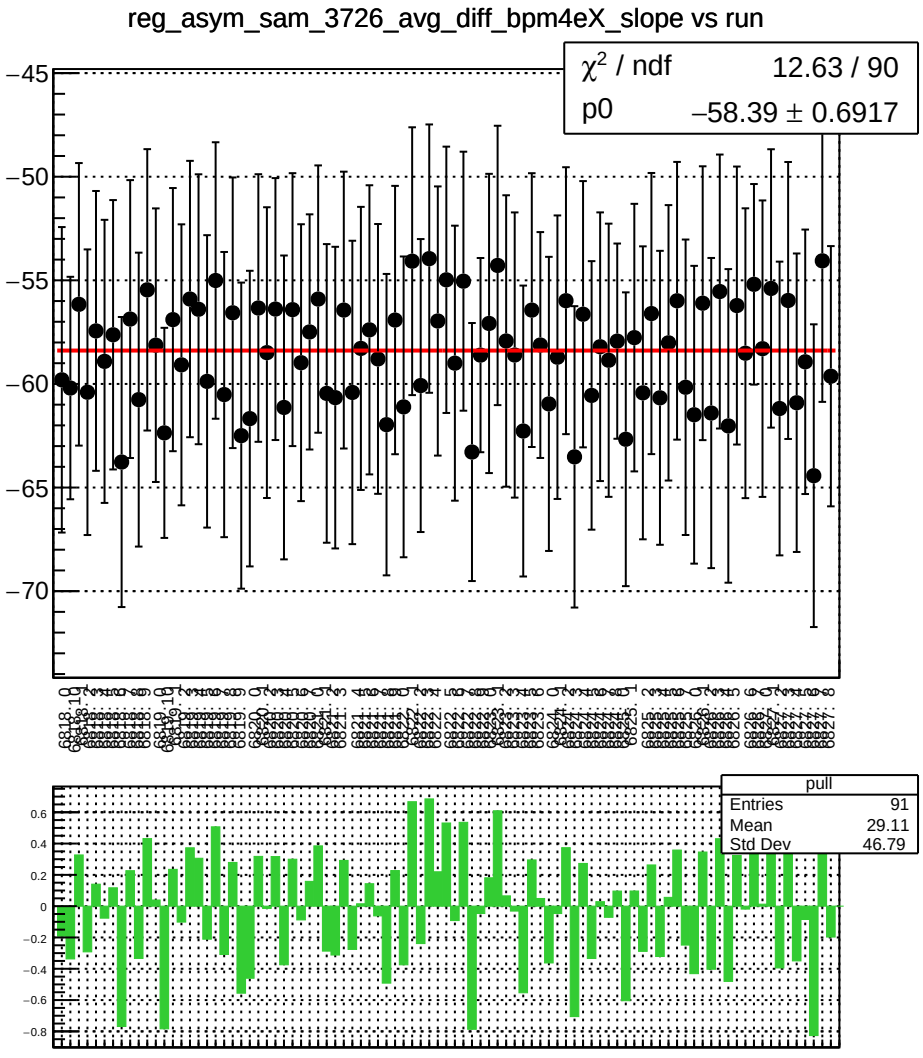

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 8.028 / 90
p0 0.3921± 0.01324
pull
Entries 91
Mean −203.7
Std Dev 239.1

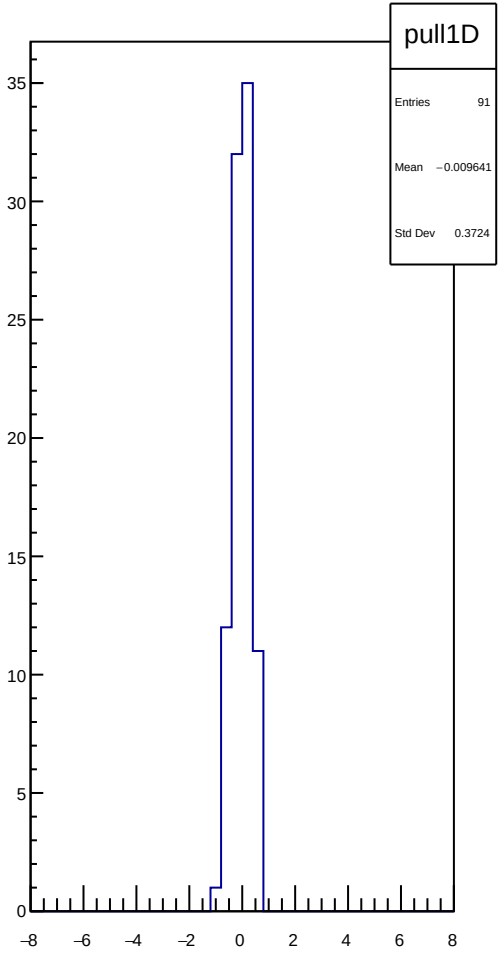

pull1D
Entries 91
Mean 0.003151
Std Dev 0.297

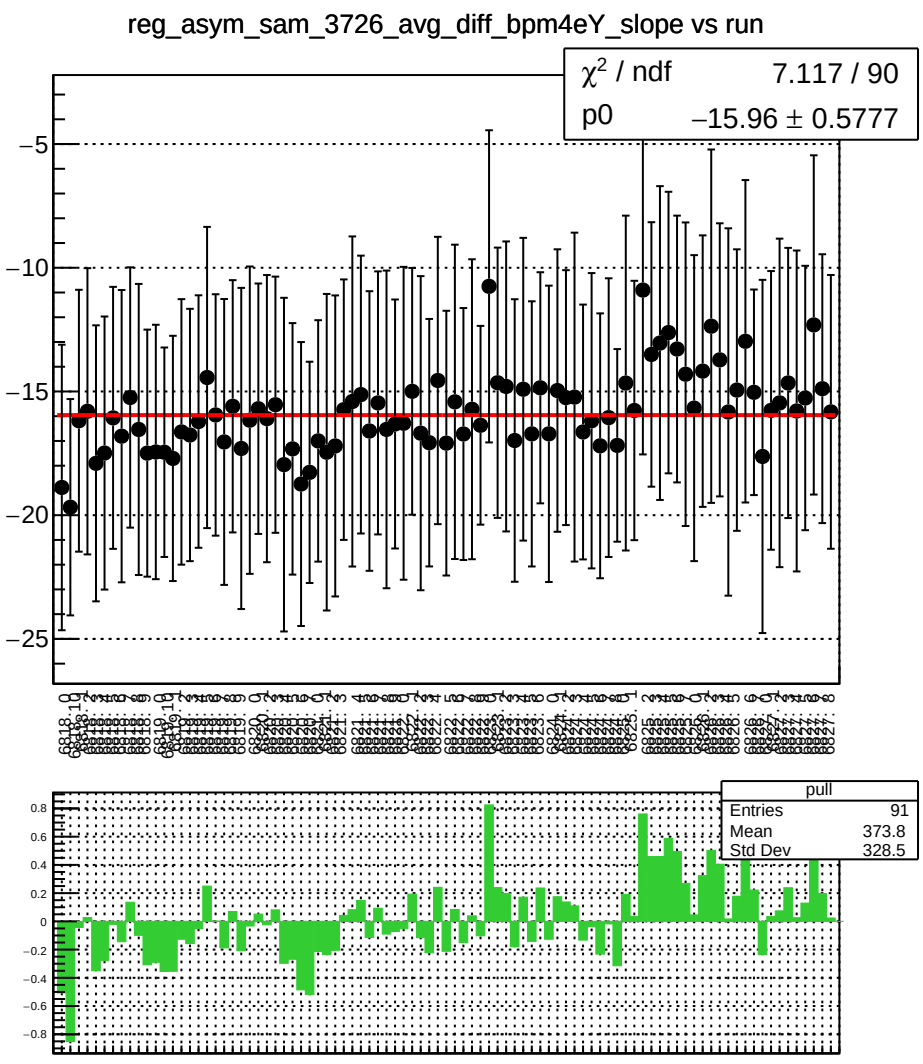

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 7.079 / 90
p0 −11.74 ± 0.7397
pull
Entries 91
Mean 28.19
Std Dev 39.97

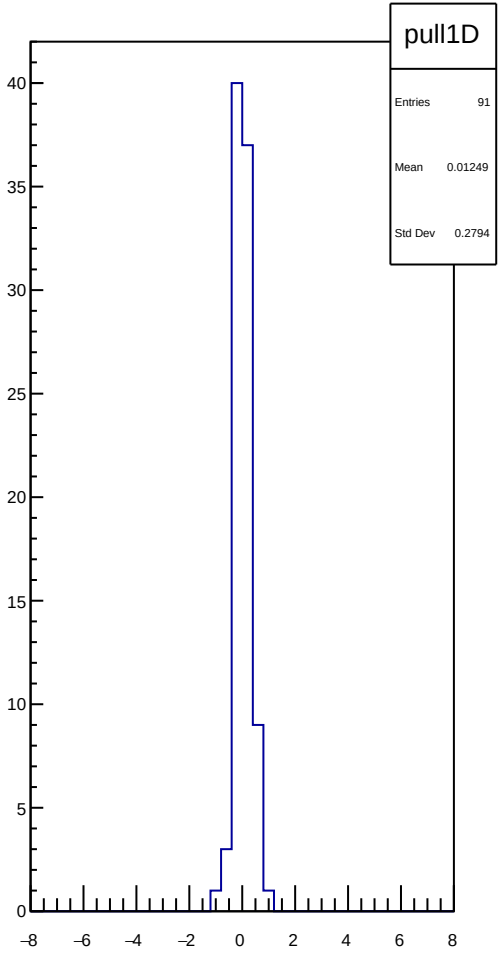

pull1D
Entries 91
Mean −0.001444
Std Dev 0.2789

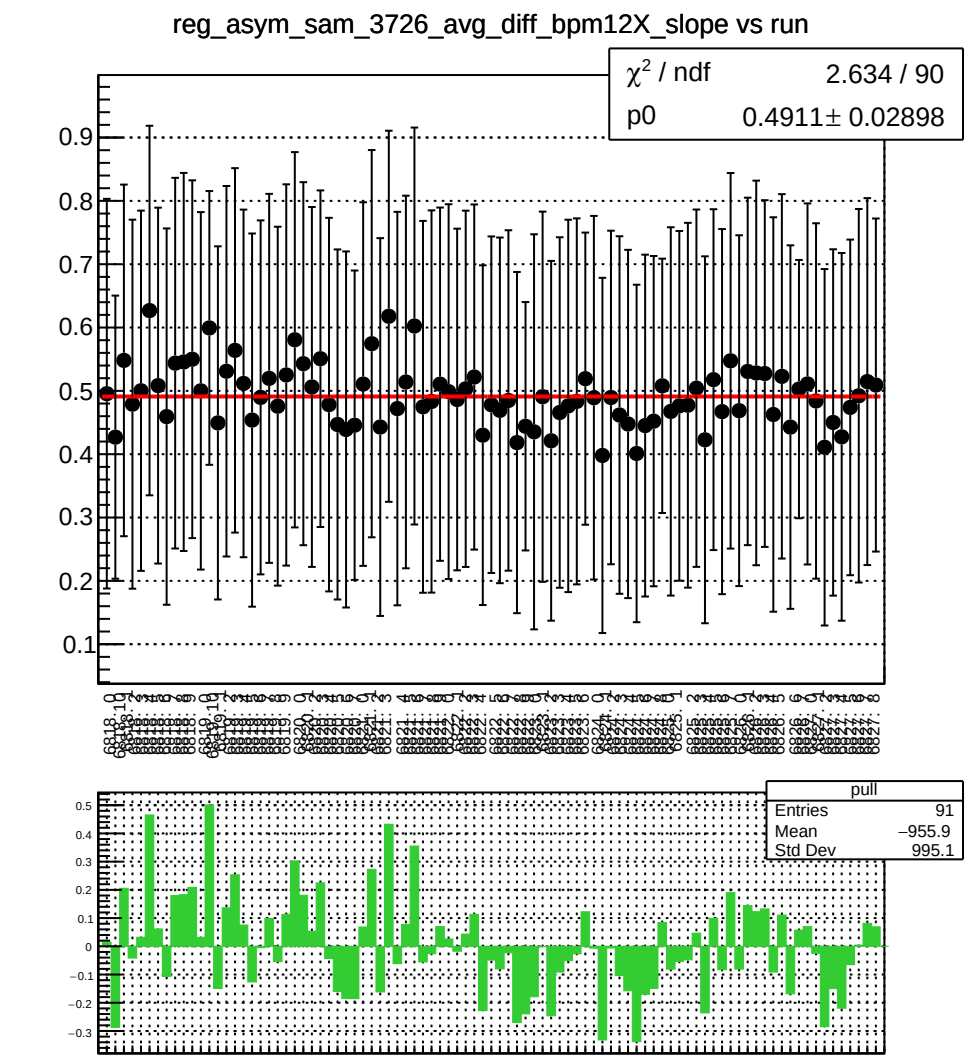

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.232 / 90
p0 2.68 ± 0.4971
pull
Entries 91
Mean 185.5
Std Dev 136.3
pull1D
Entries 91
Mean −0.02734
Std Dev 0.2806

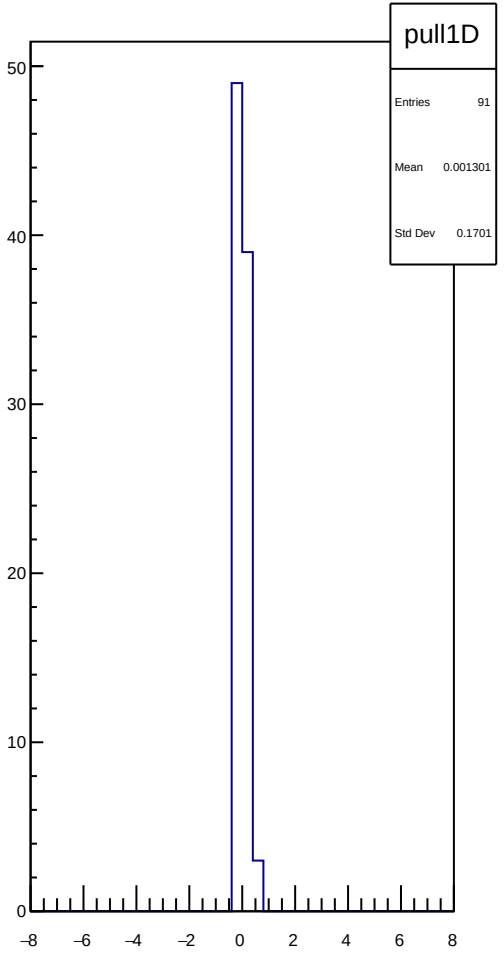

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.63 / 90
p0 −58.39 ± 0.6917
pull
Entries 91
Mean 29.11
Std Dev 46.79

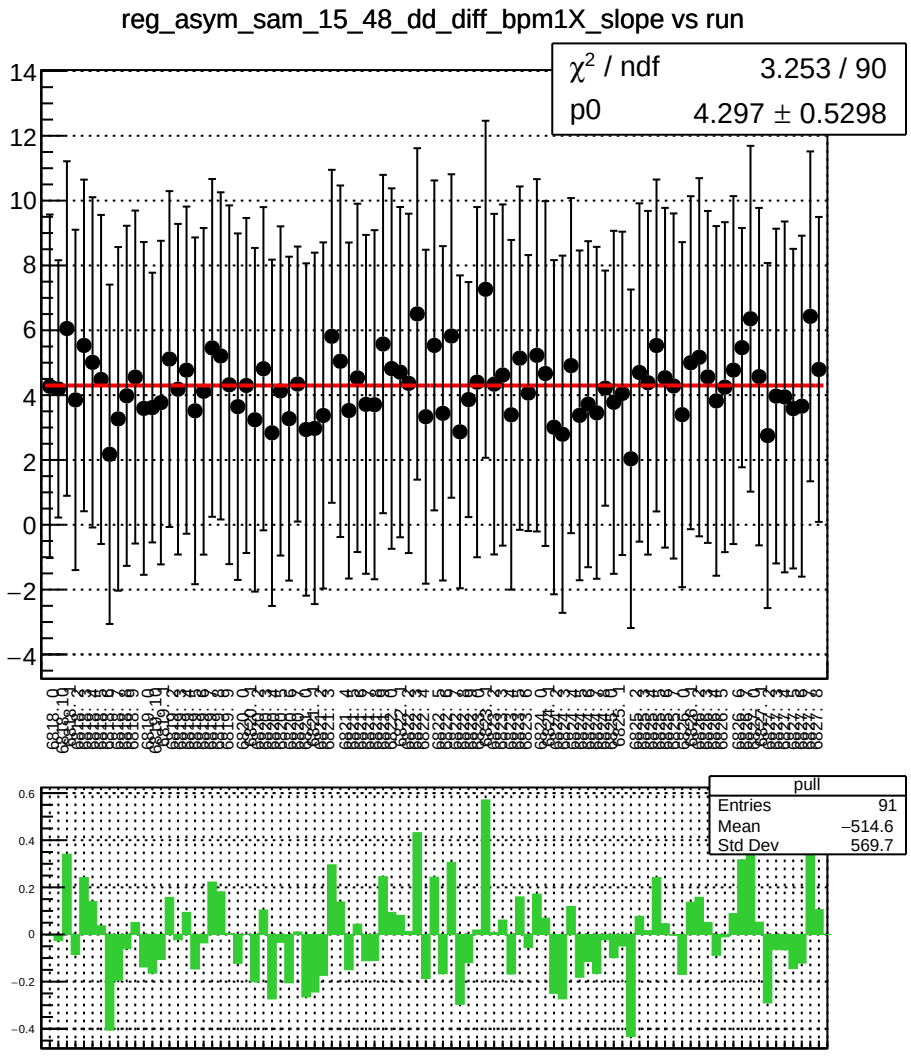

pull1D
Entries 91
Mean −0.009641
Std Dev 0.3724

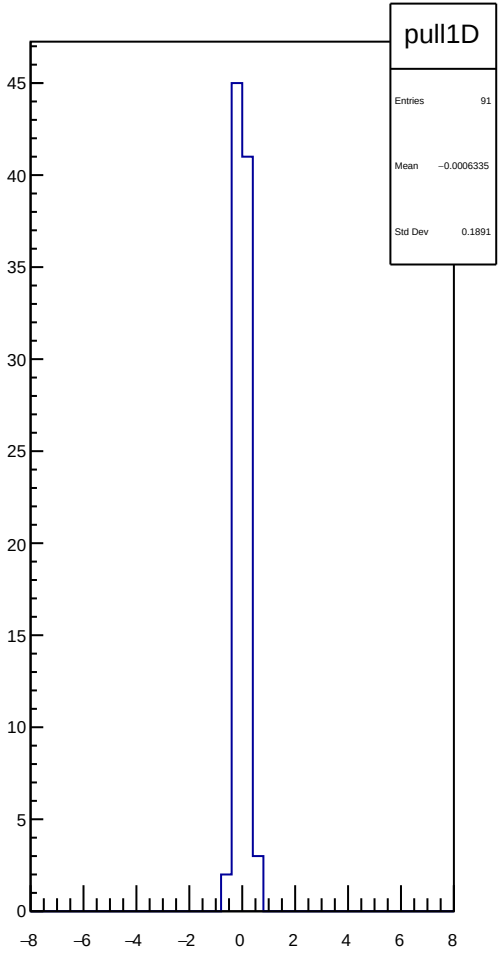

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.117 / 90
p0 −15.96 ± 0.5777
pull
Entries 91
Mean 373.8
Std Dev 328.5

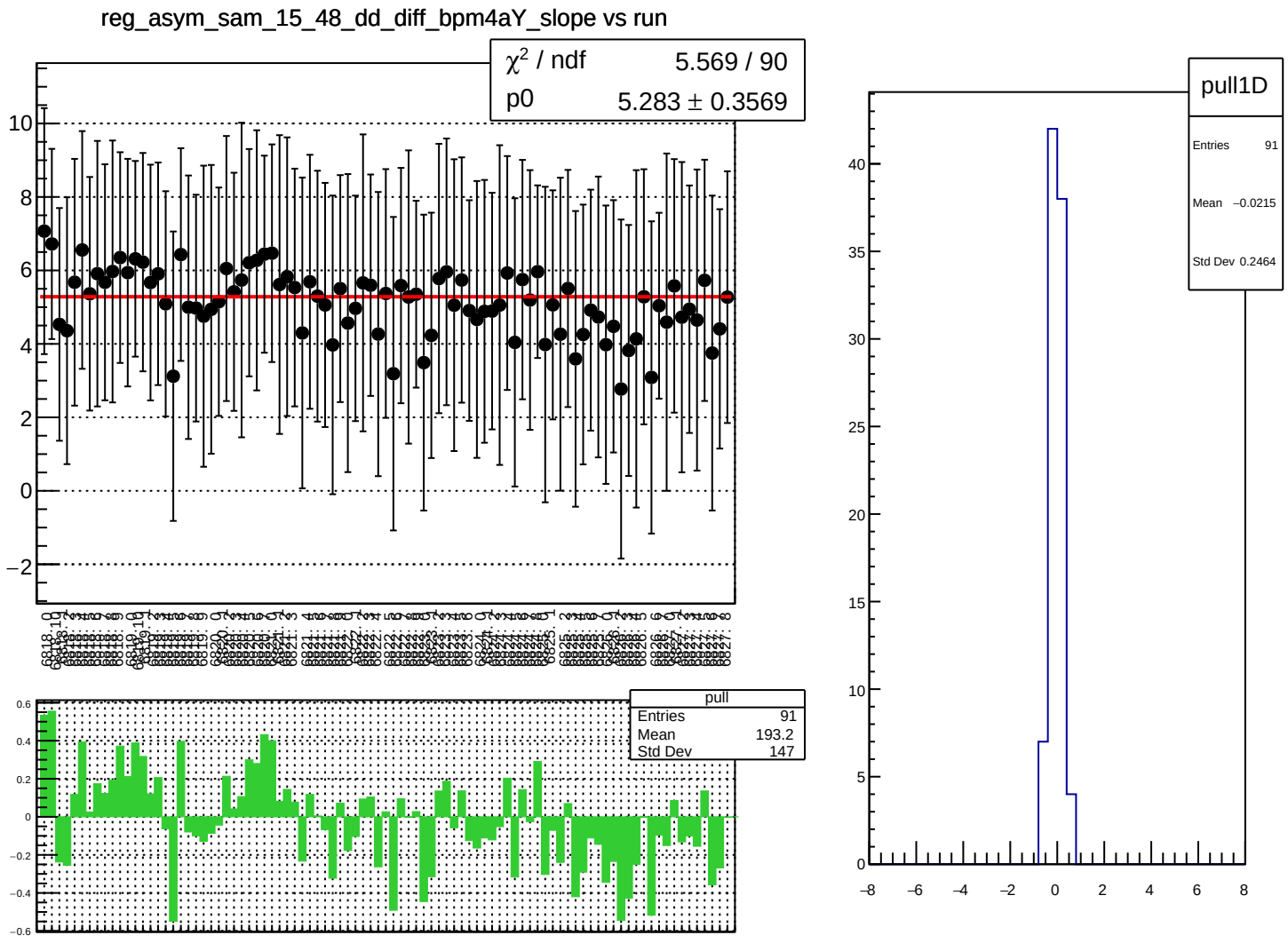

pull1D
Entries 91
Mean 0.01249
Std Dev 0.2794

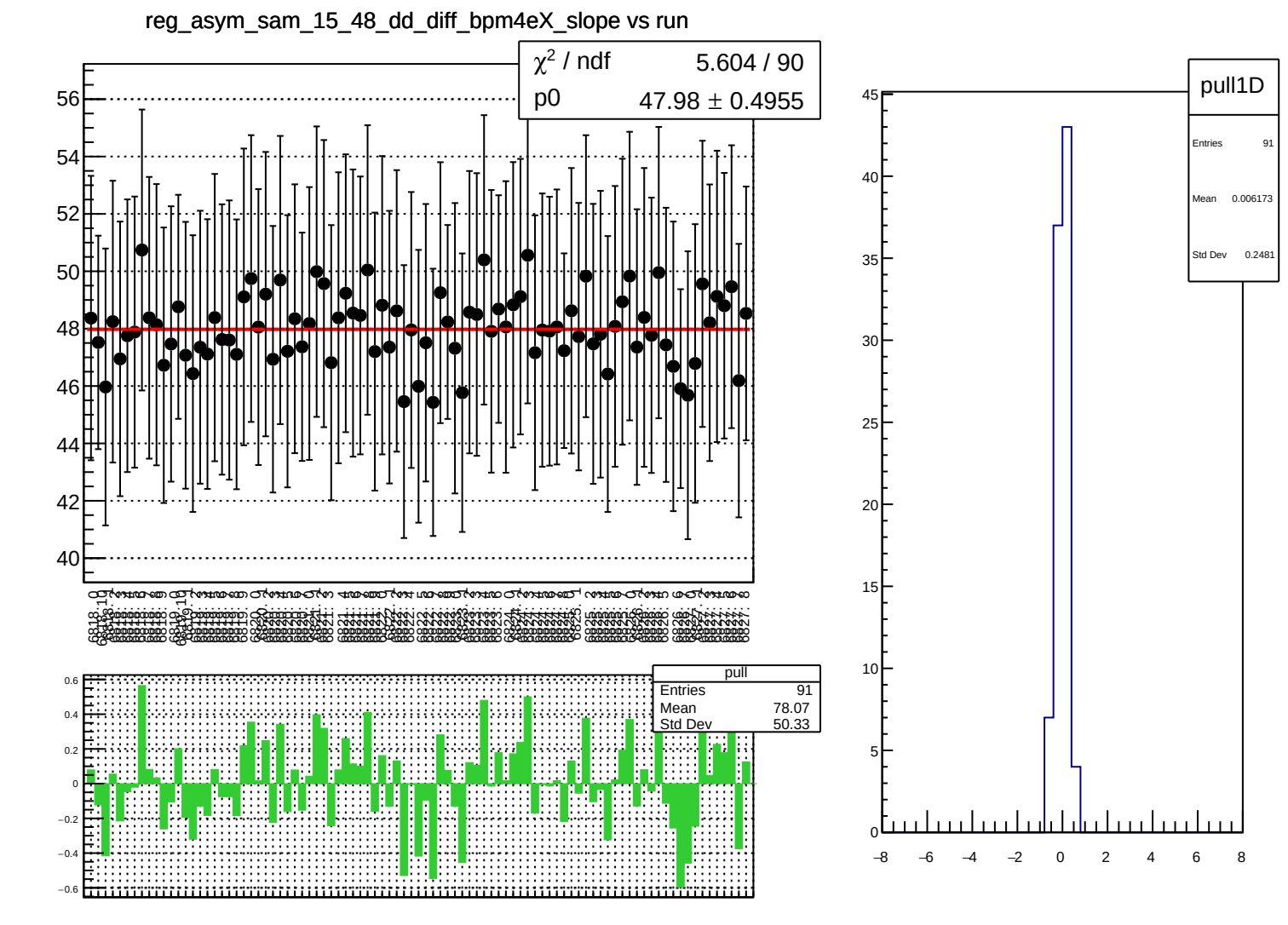

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.634 / 90
p0 0.4911± 0.02898
pull
Entries 91
Mean −955.9
Std Dev 995.1

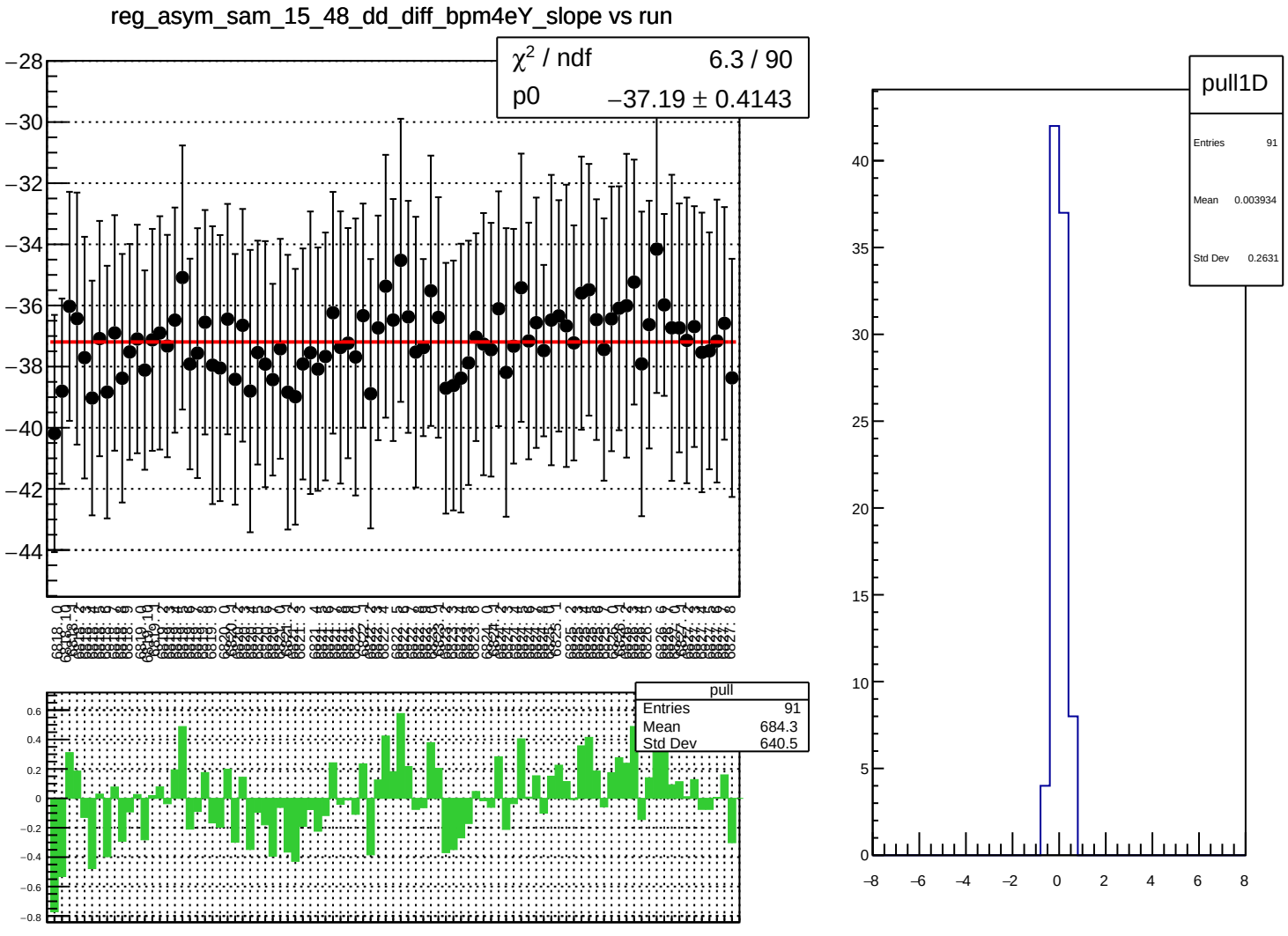

pull1D
Entries 91
Mean 0.001301
Std Dev 0.1701

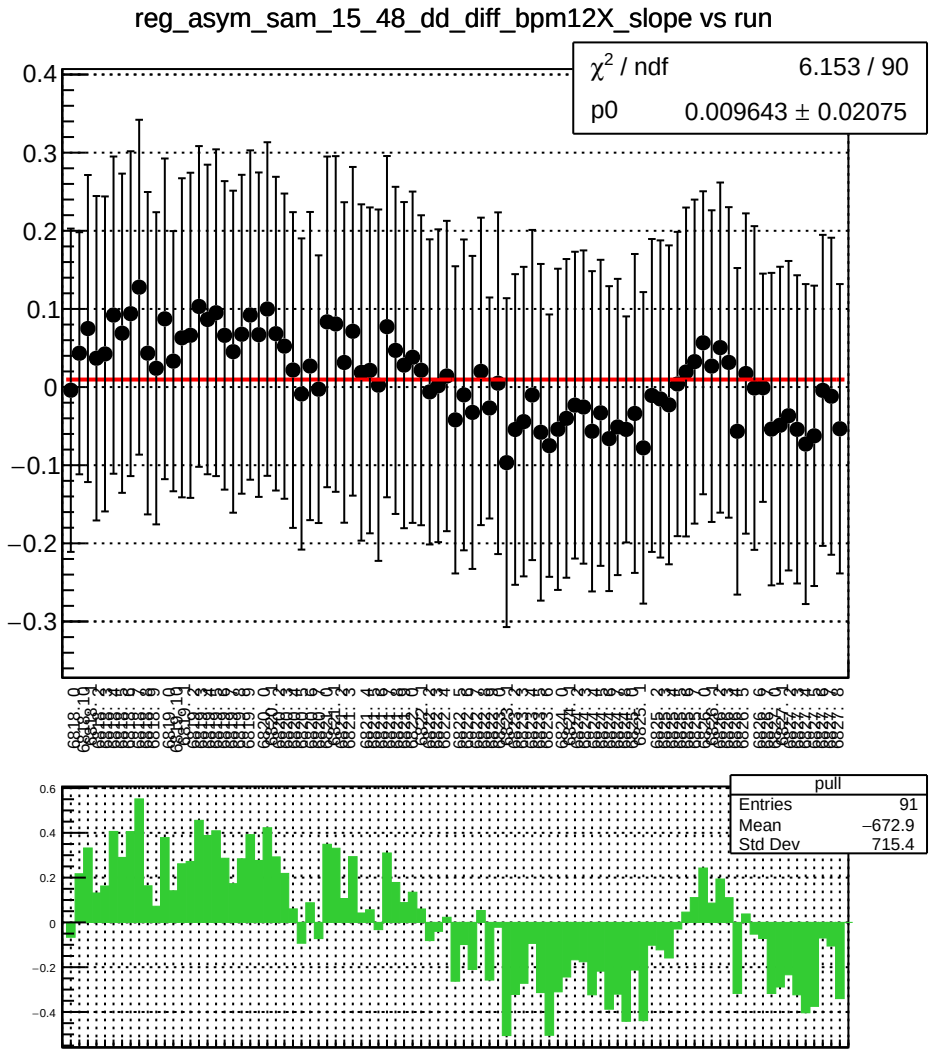

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.253 / 90
p0 4.297 ± 0.5298
pull
Entries 91
Mean −514.6
Std Dev 569.7

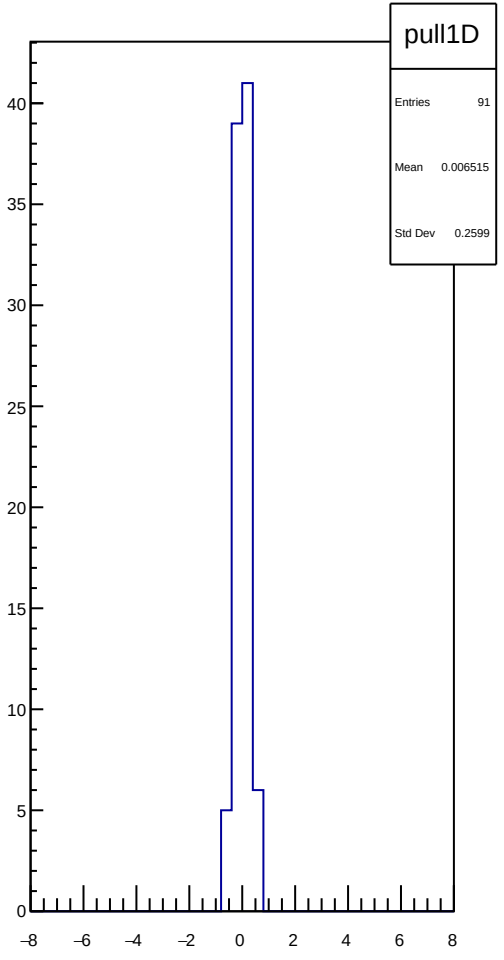

pull1D
Entries 91
Mean −0.0006335
Std Dev 0.1891

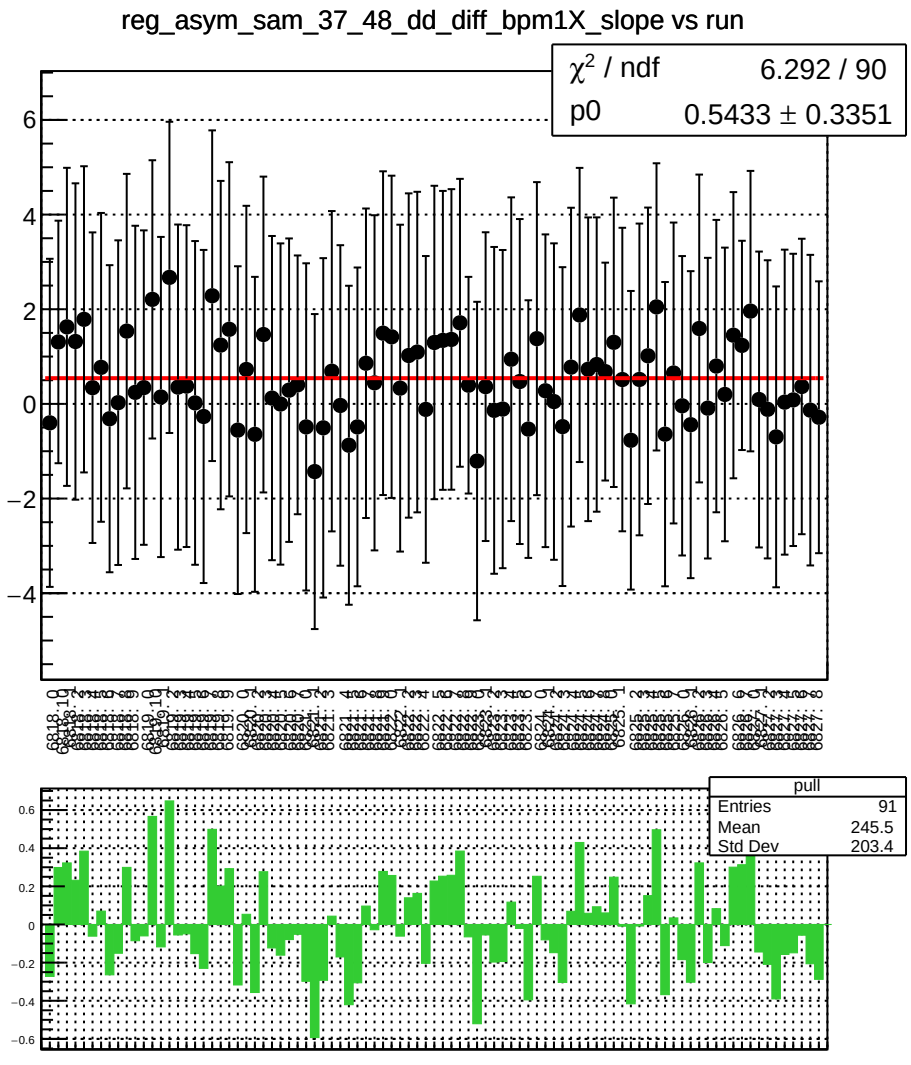

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.569 / 90
p0 5.283 ± 0.3569
pull
Entries 91
Mean 193.2
Std Dev 147
pull1D
Entries 91
Mean −0.0215
Std Dev 0.2464

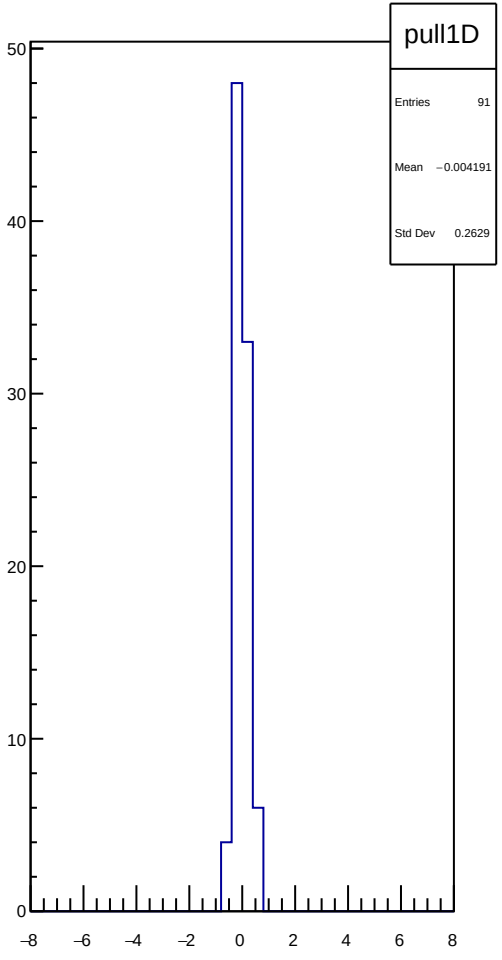

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.604 / 90
p0 47.98 ± 0.4955
pull
Entries 91
Mean 78.07
Std Dev 50.33
pull1D
Entries 91
Mean 0.006173
Std Dev 0.2481

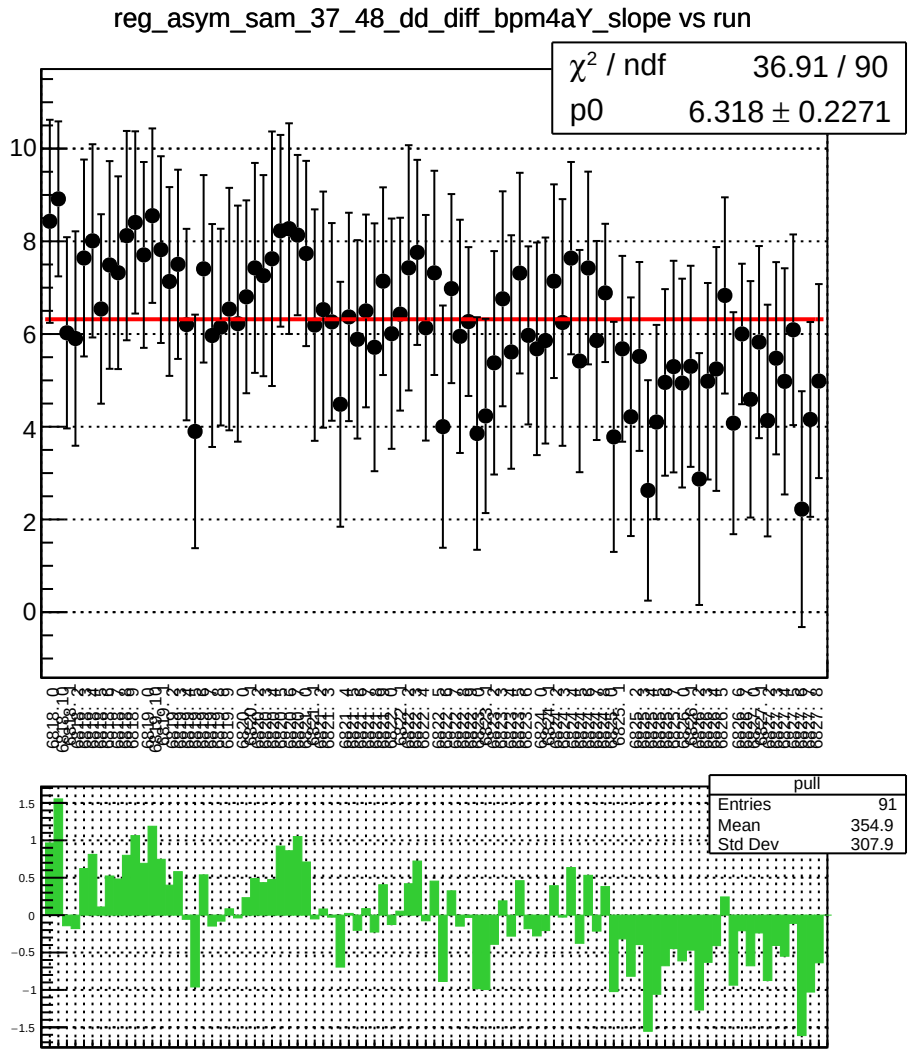

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.3 / 90
p0 −37.19 ± 0.4143
pull
Entries 91
Mean 684.3
Std Dev 640.5
pull1D
Entries 91
Mean 0.003934
Std Dev 0.2631

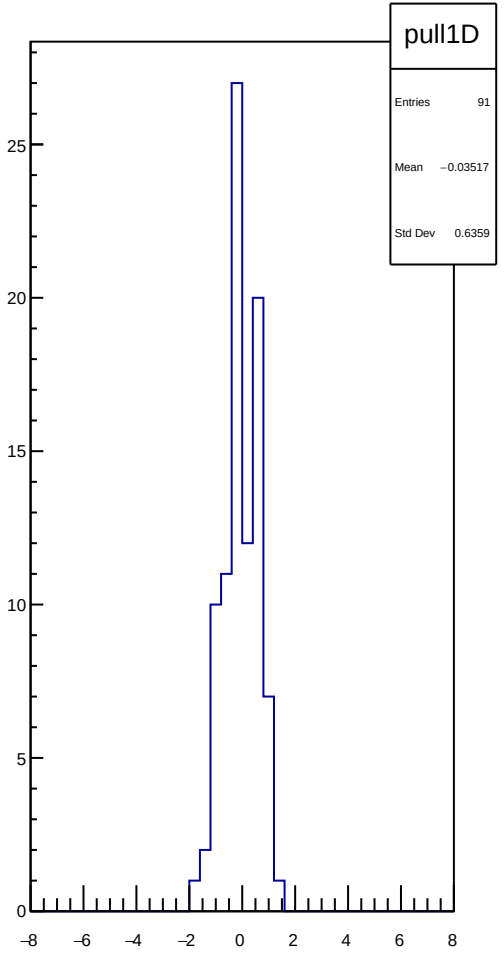

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.153 / 90
p0 0.009643 ± 0.02075
pull
Entries 91
Mean −672.9
Std Dev 715.4

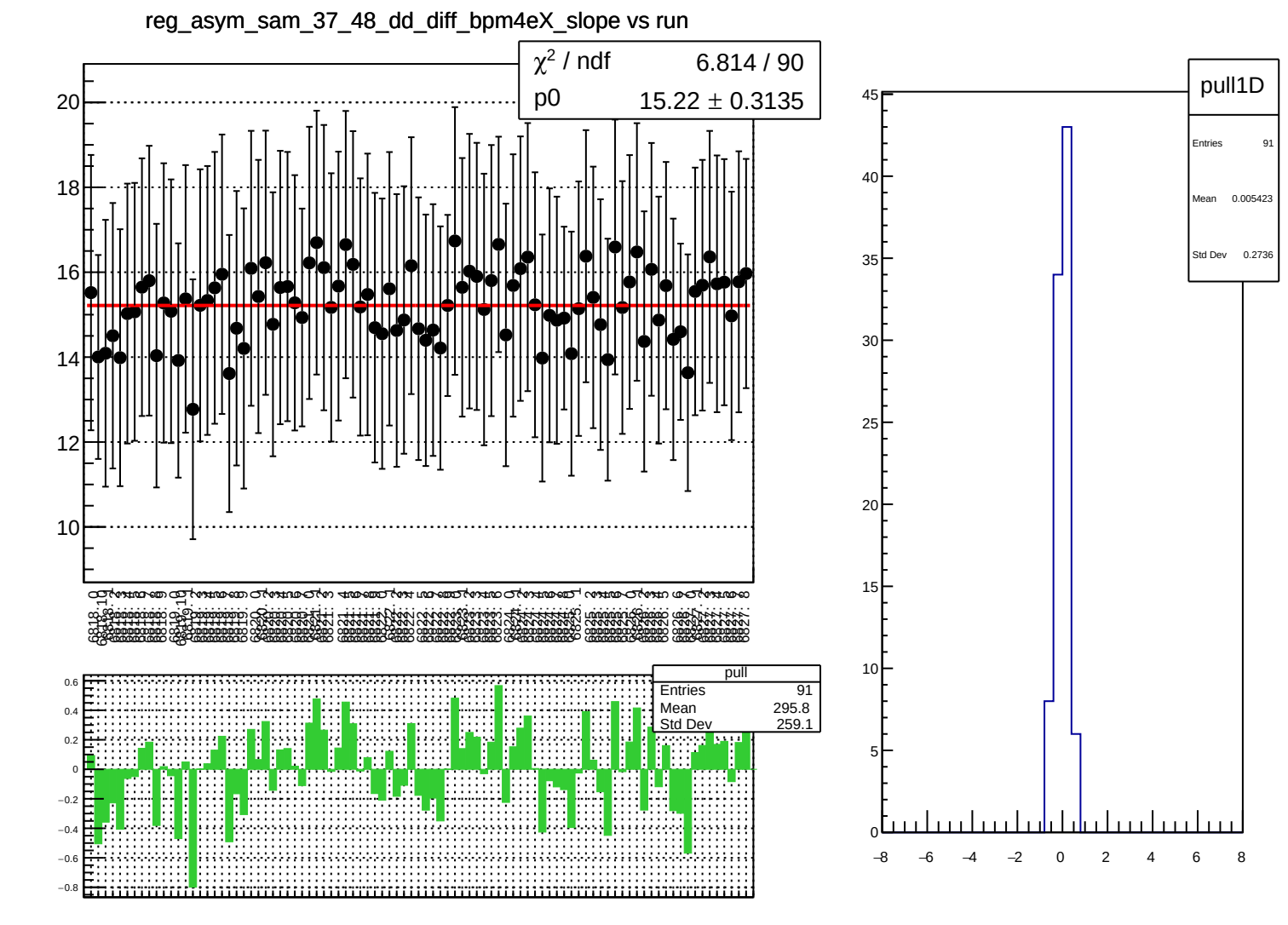

pull1D
Entries 91
Mean 0.006515
Std Dev 0.2599

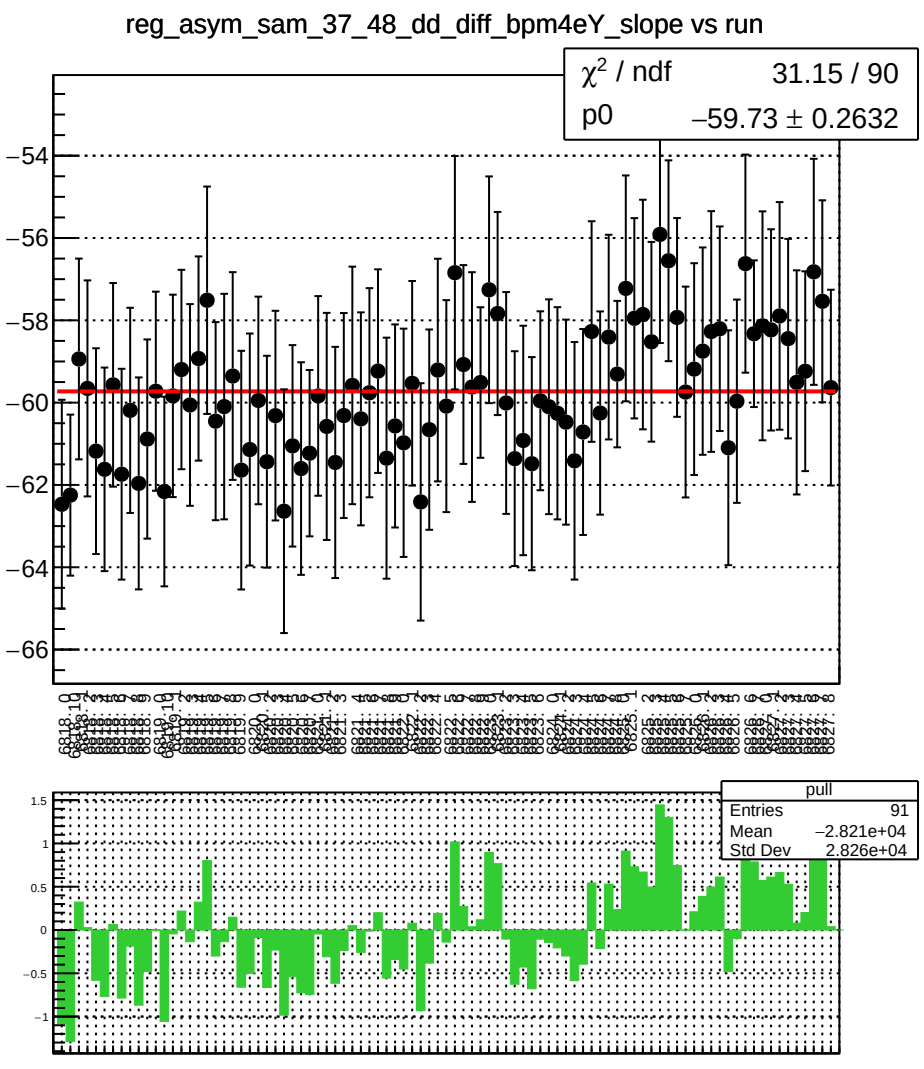

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.292 / 90
p0 0.5433 ± 0.3351
pull
Entries 91
Mean 245.5
Std Dev 203.4

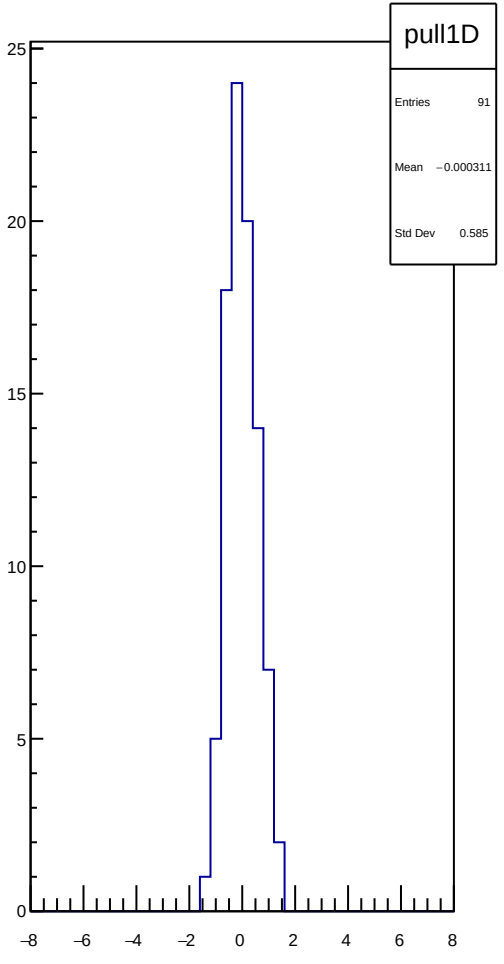

pull1D
Entries 91
Mean −0.004191
Std Dev 0.2629

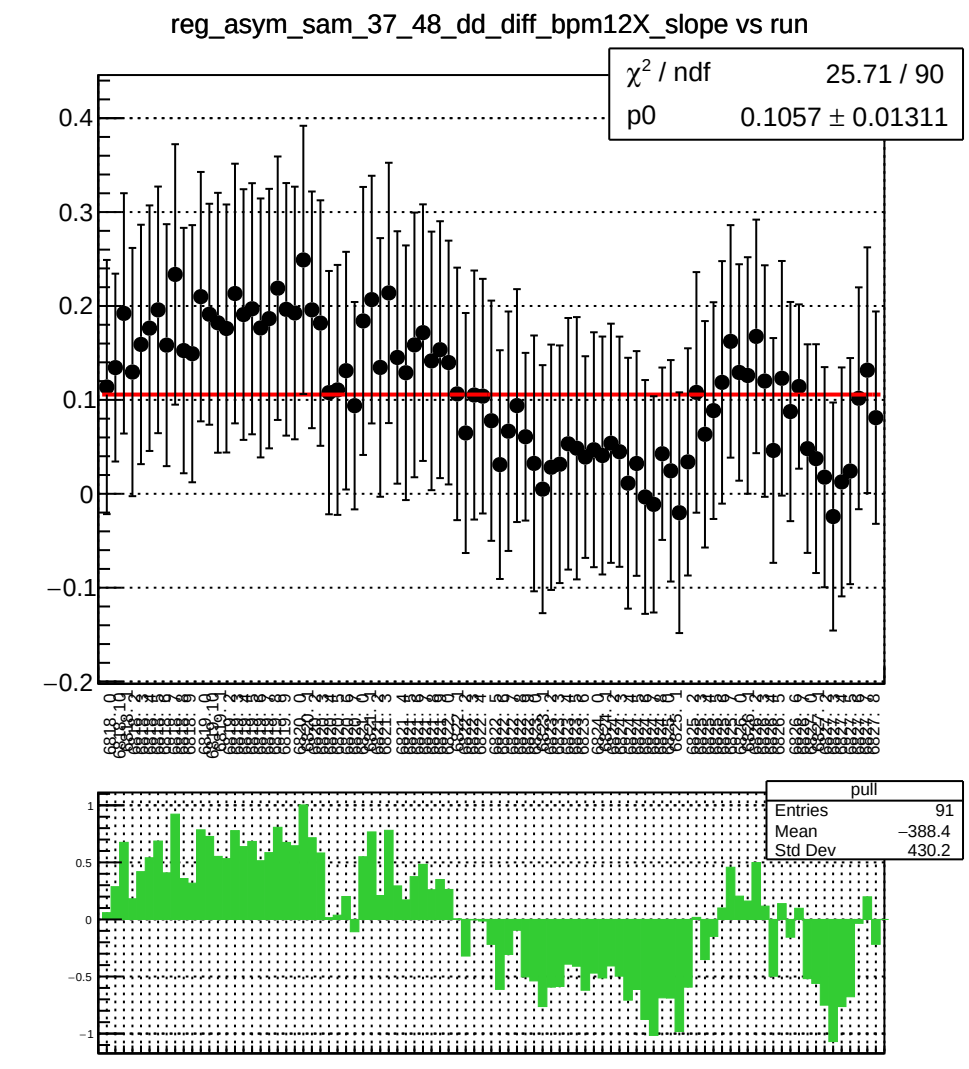

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.91 / 90
p0 6.318 ± 0.2271
pull
Entries 91
Mean 354.9
Std Dev 307.9

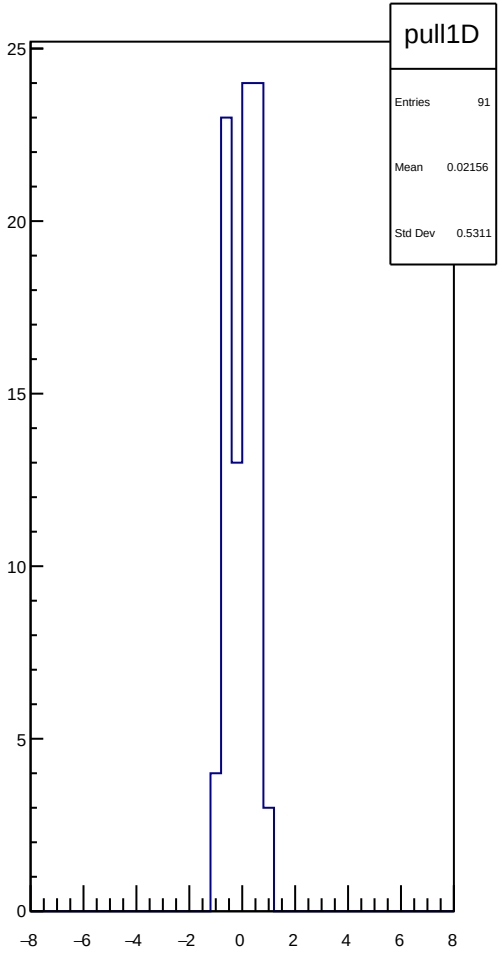

pull1D
Entries 91
Mean −0.03517
Std Dev 0.6359

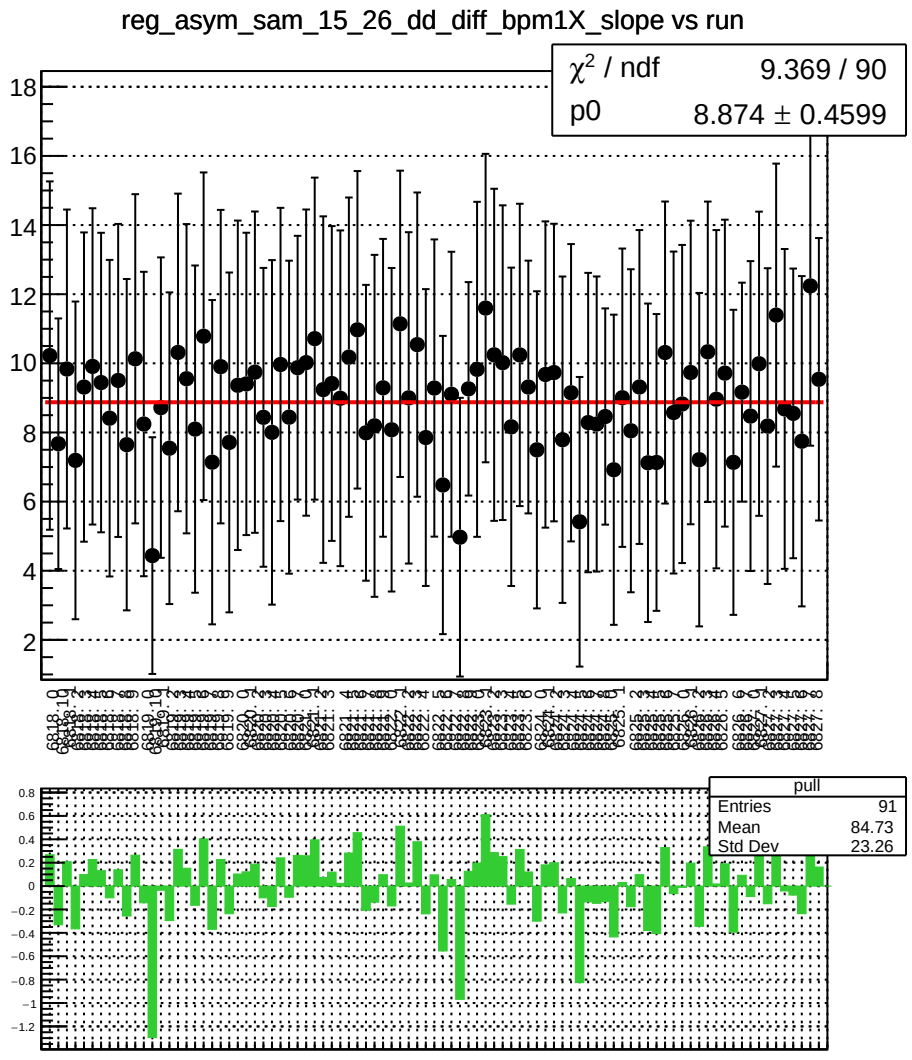

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.814 / 90
p0 15.22 ± 0.3135
pull
Entries 91
Mean 295.8
Std Dev 259.1
pull1D
Entries 91
Mean 0.005423
Std Dev 0.2736

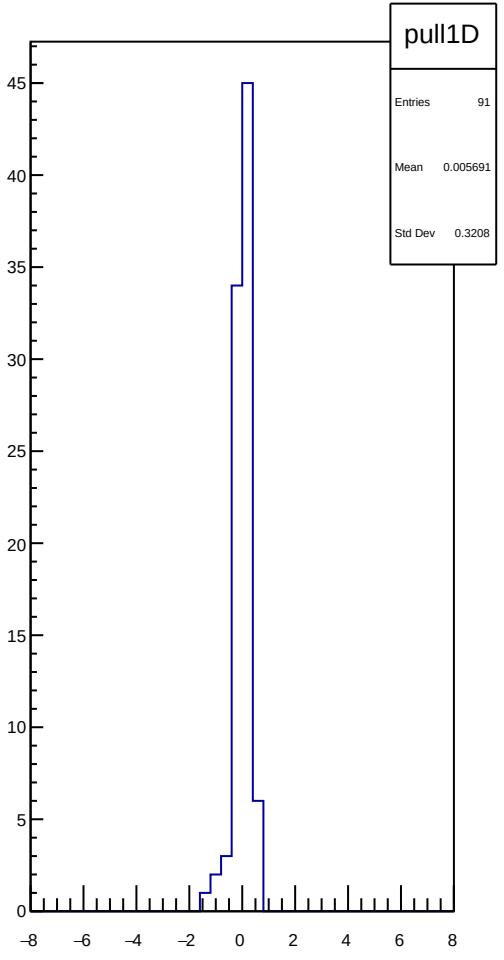

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.15 / 90
p0 −59.73 ± 0.2632
pull
Entries 91
Mean −2.821e+04
Std Dev 2.826e+04

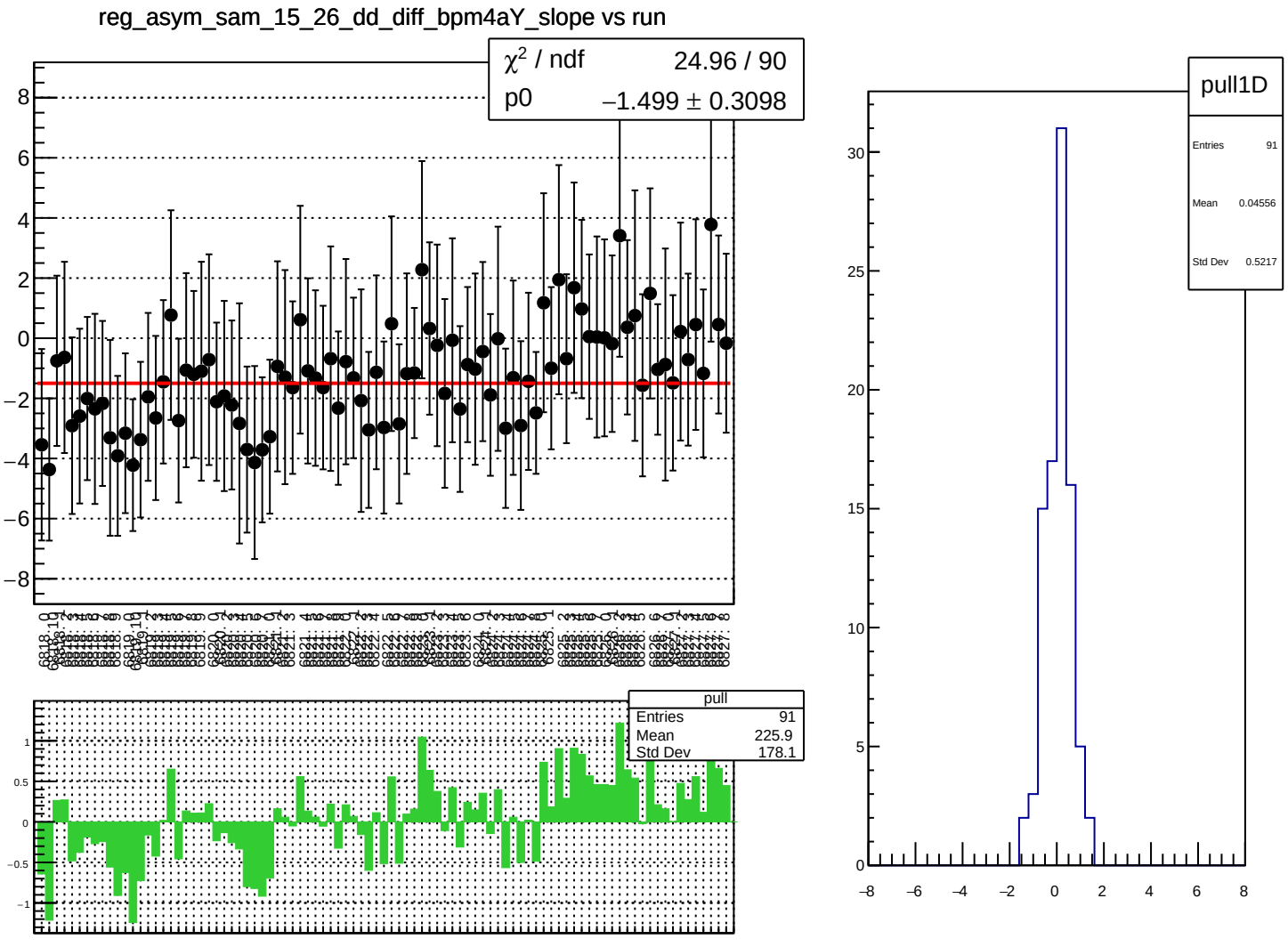

pull1D
Entries 91
Mean −0.000311
Std Dev 0.585

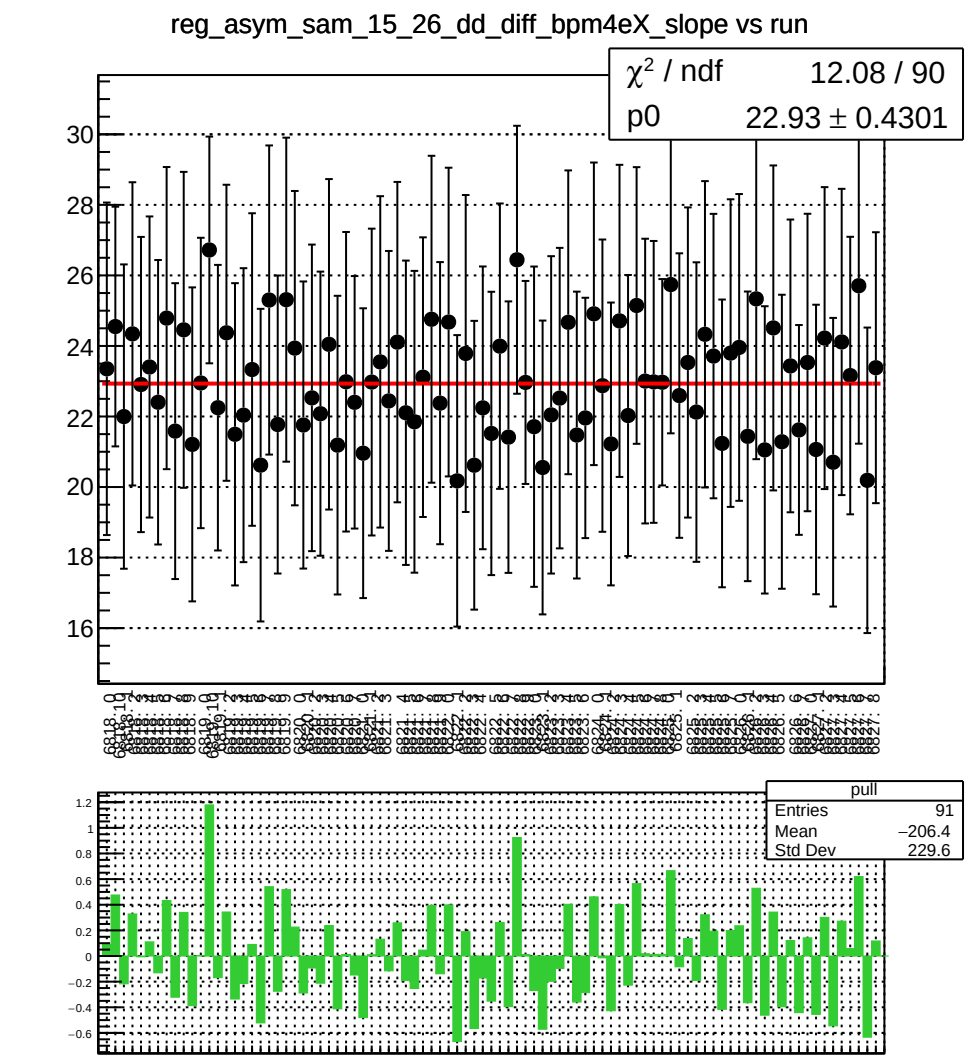

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 25.71 / 90
p0 0.1057 ± 0.01311
pull
Entries 91
Mean −388.4
Std Dev 430.2

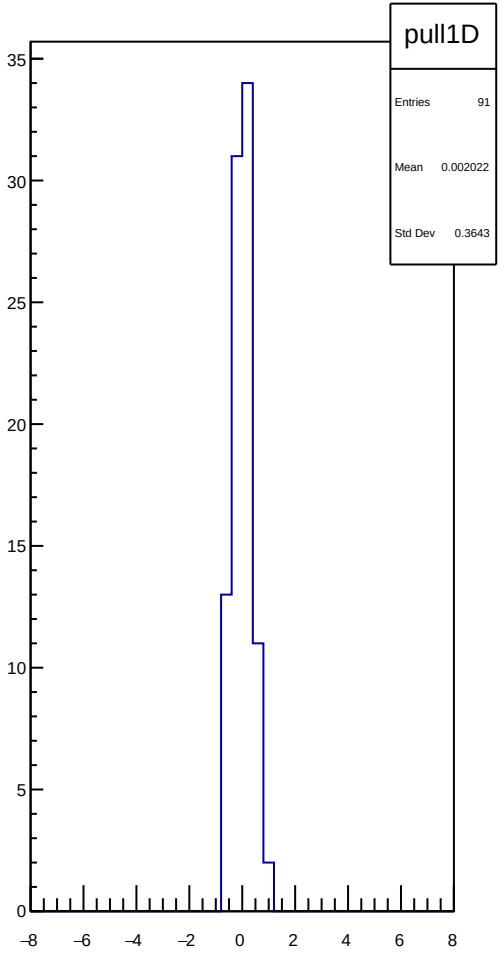

pull1D
Entries 91
Mean 0.02156
Std Dev 0.5311

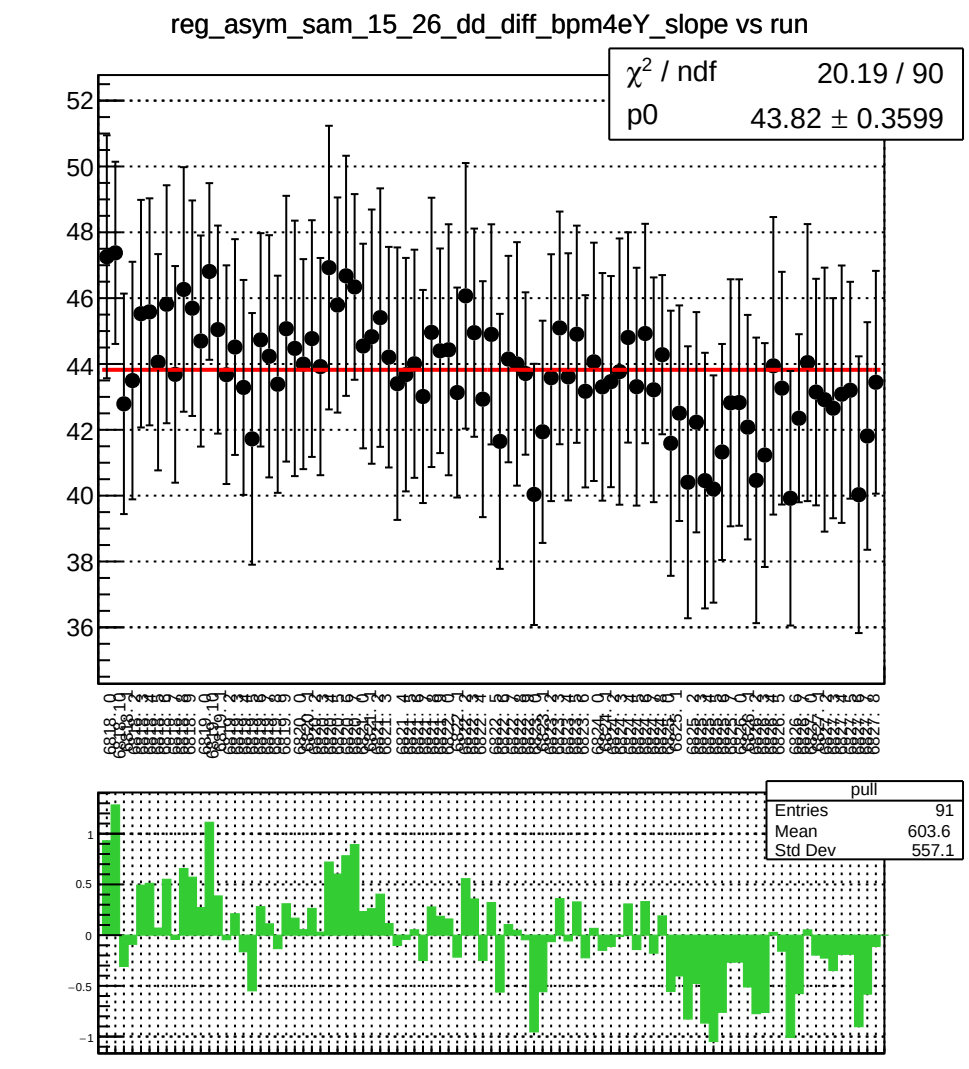

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.369 / 90
p0 8.874 ± 0.4599
pull
Entries 91
Mean 84.73
Std Dev 23.26

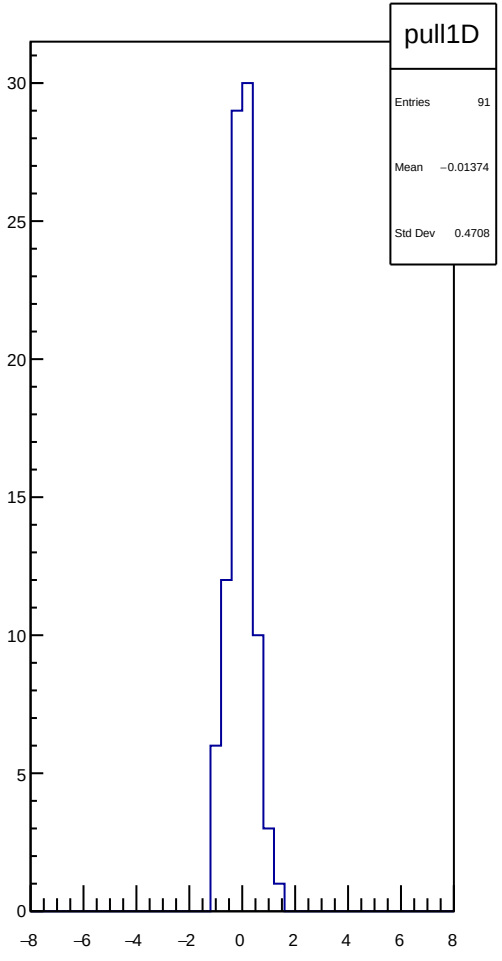

pull1D
Entries 91
Mean 0.005691
Std Dev 0.3208

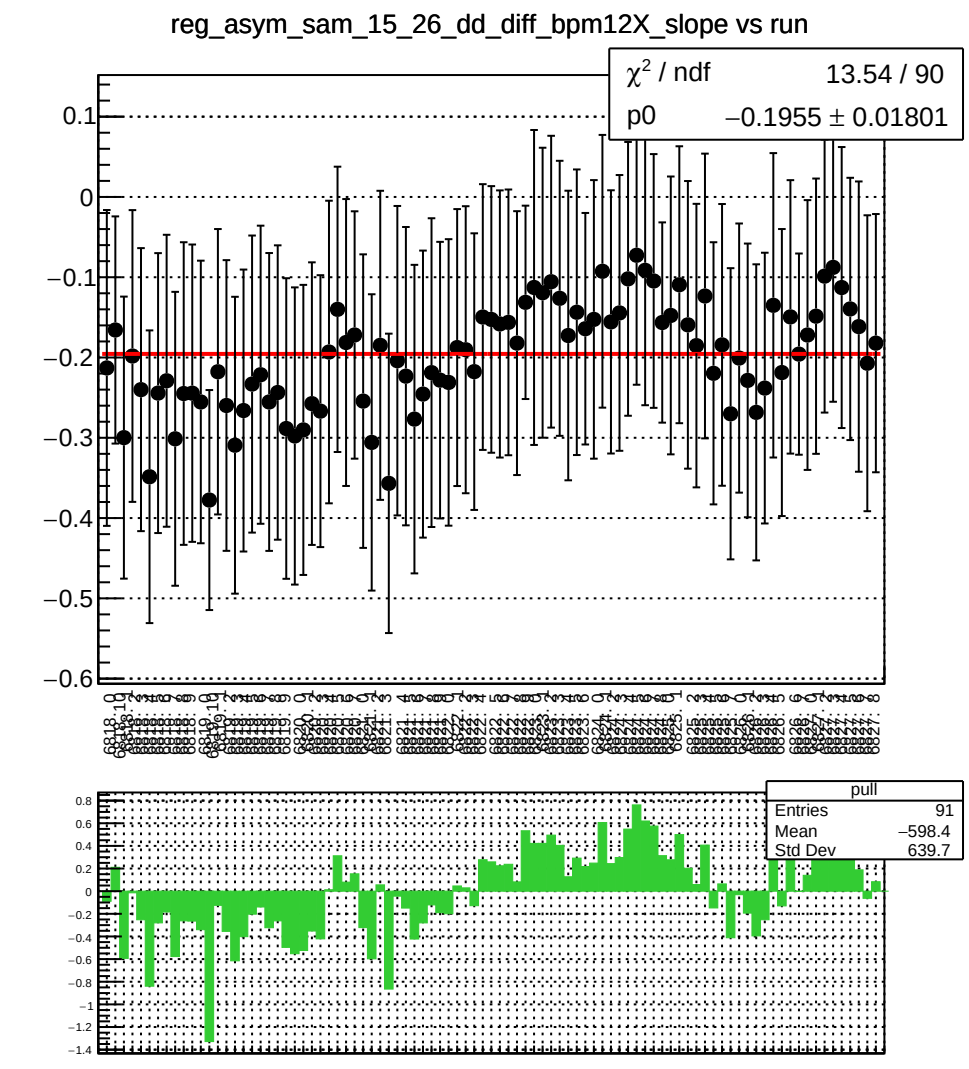

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.96 / 90
p0 −1.499 ± 0.3098
pull
Entries 91
Mean 225.9
Std Dev 178.1
pull1D
Entries 91
Mean 0.04556
Std Dev 0.5217

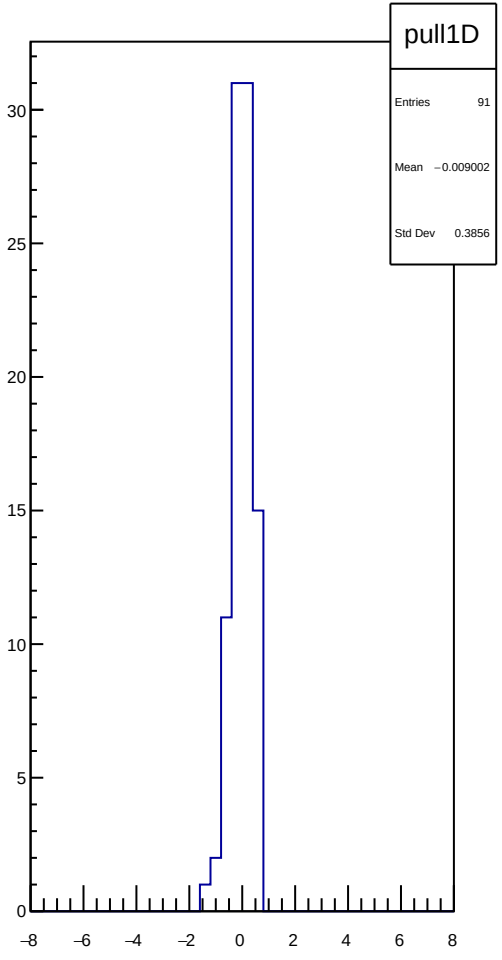

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.08 / 90
p0 22.93 ± 0.4301
pull
Entries 91
Mean −206.4
Std Dev 229.6

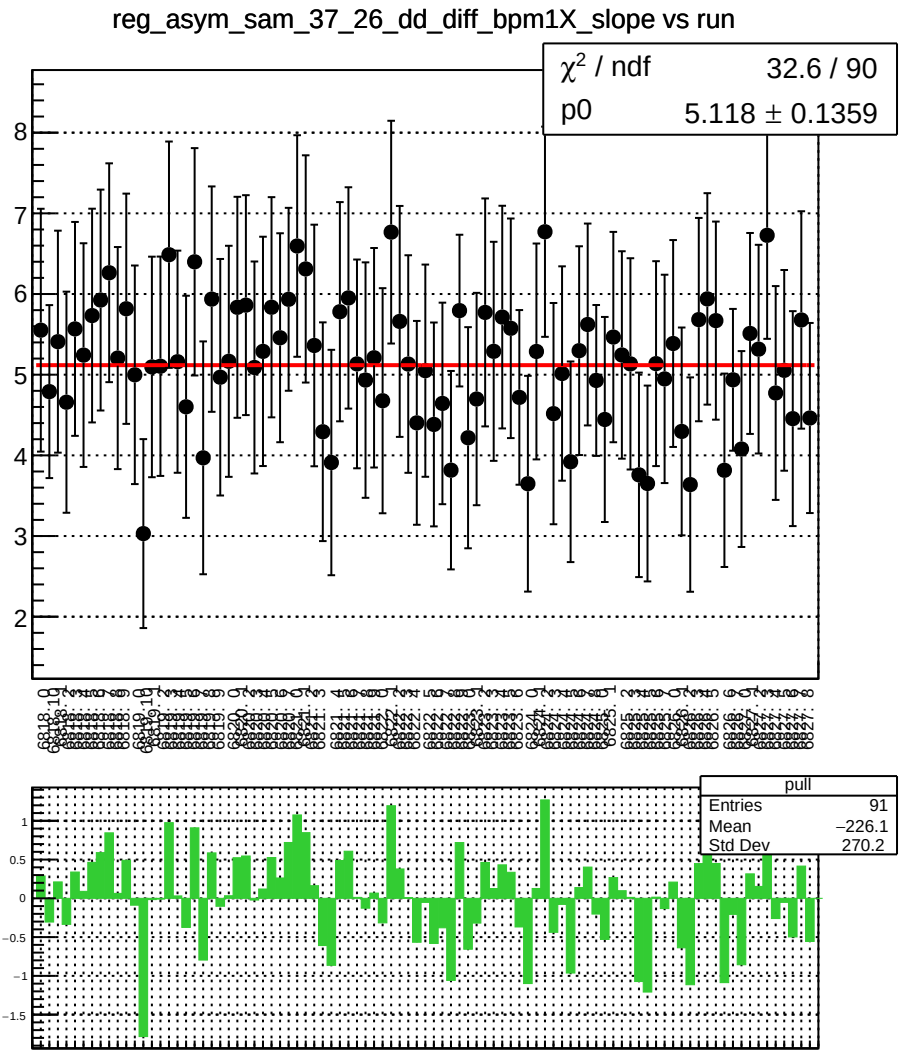

pull1D
Entries 91
Mean 0.002022
Std Dev 0.3643

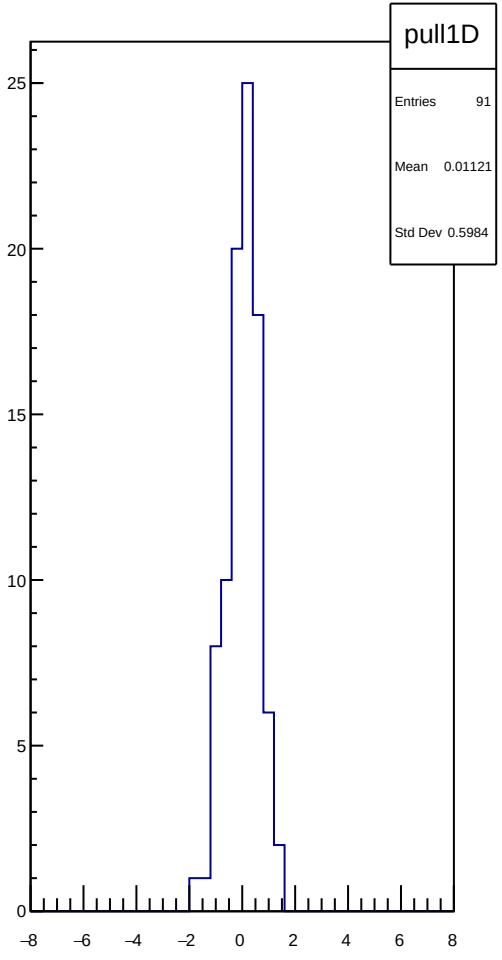

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.19 / 90
p0 43.82 ± 0.3599
pull
Entries 91
Mean 603.6
Std Dev 557.1

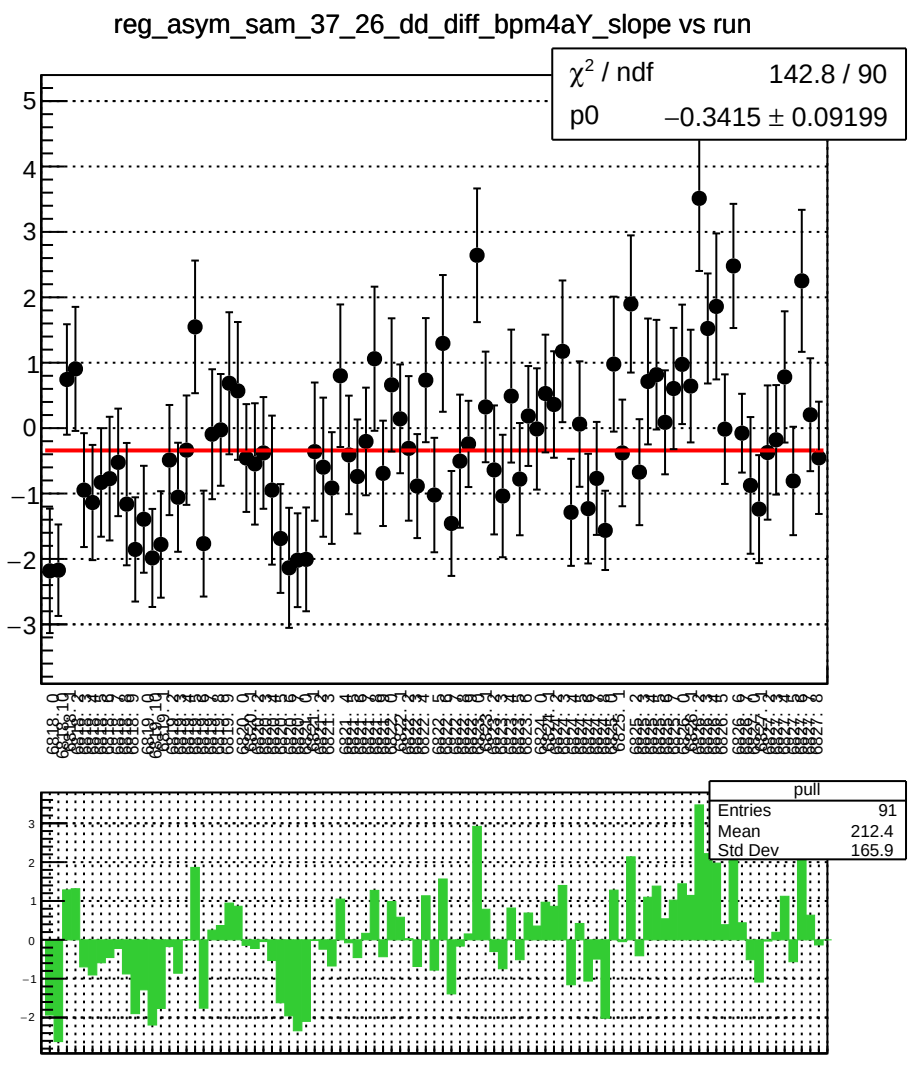

pull1D
Entries 91
Mean −0.01374
Std Dev 0.4708

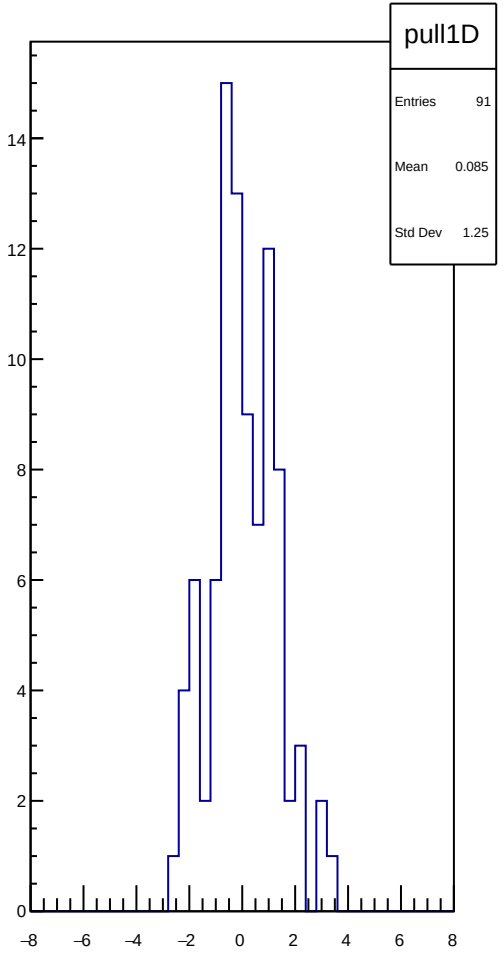

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 13.54 / 90
p0 −0.1955 ± 0.01801
pull
Entries 91
Mean −598.4
Std Dev 639.7

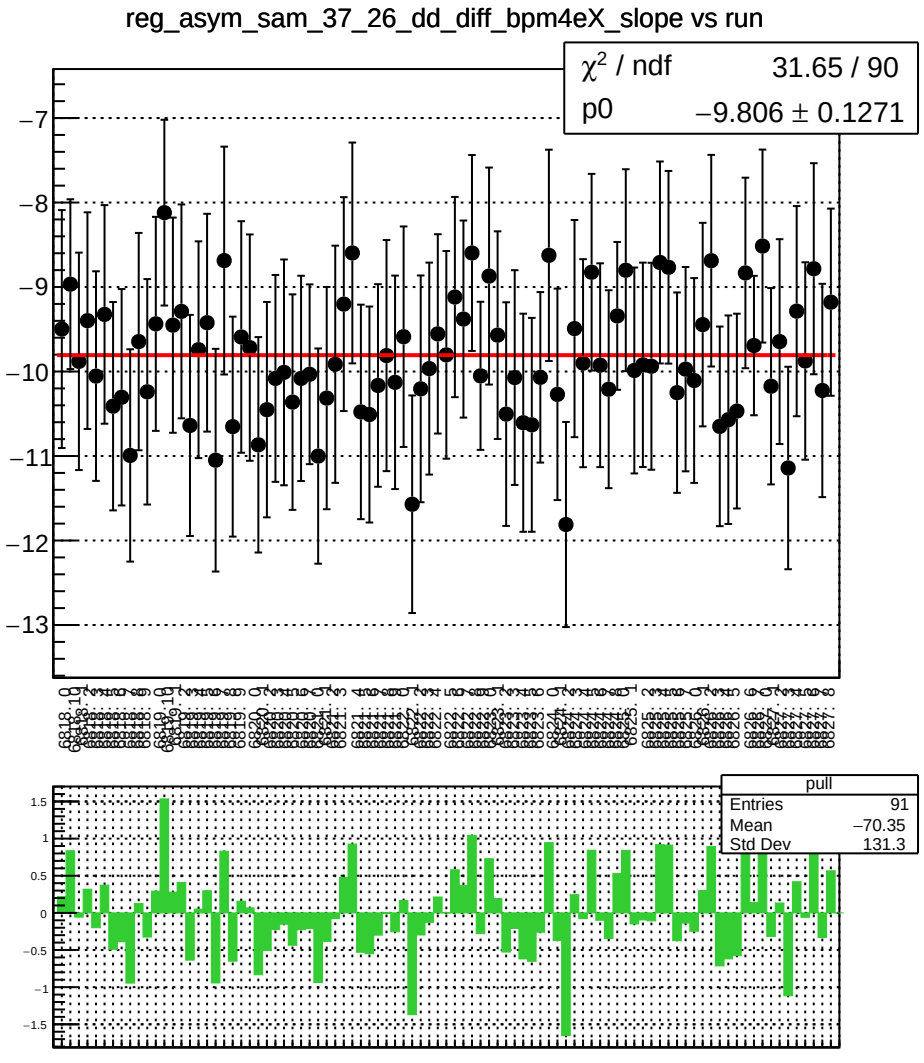

pull1D
Entries 91
Mean −0.009002
Std Dev 0.3856

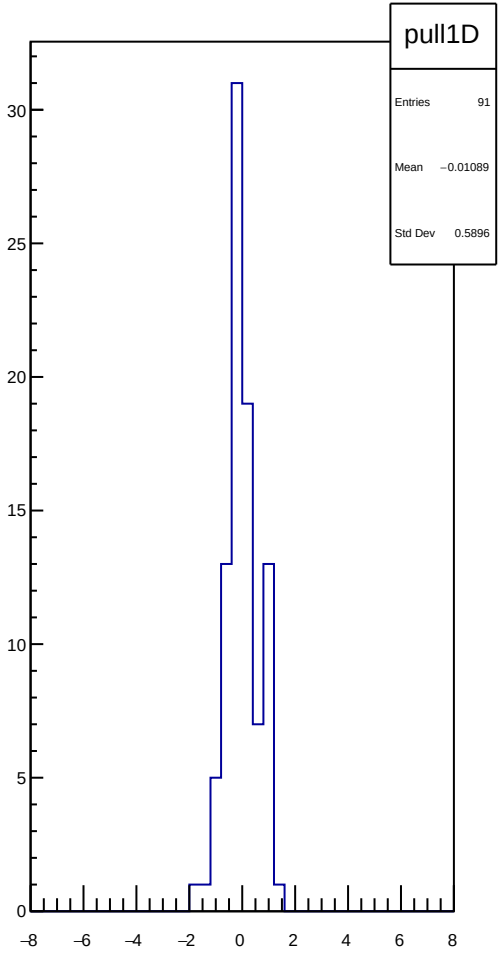

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 32.6 / 90
p0 5.118 ± 0.1359
pull
Entries 91
Mean −226.1
Std Dev 270.2

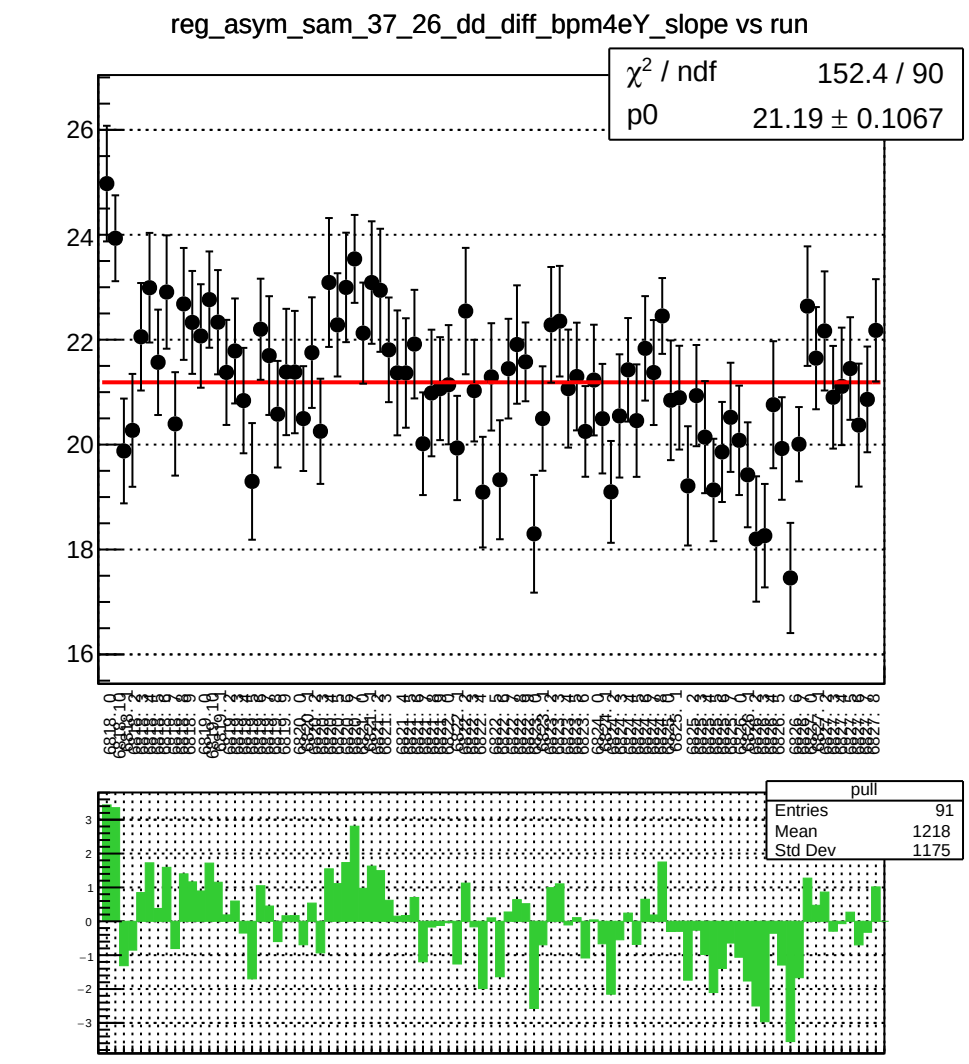

pull1D
Entries 91
Mean 0.01121
Std Dev 0.5984

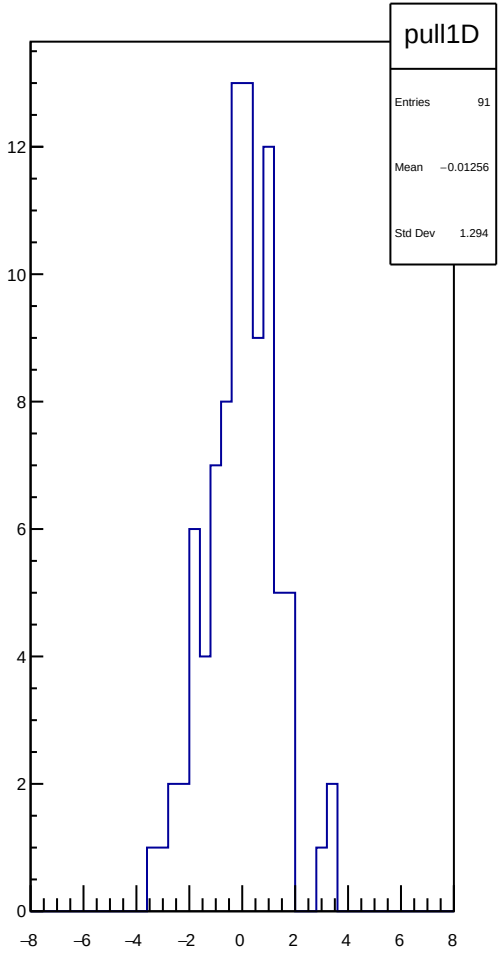

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 142.8 / 90
p0 −0.3415 ± 0.09199
pull
Entries 91
Mean 212.4
Std Dev 165.9

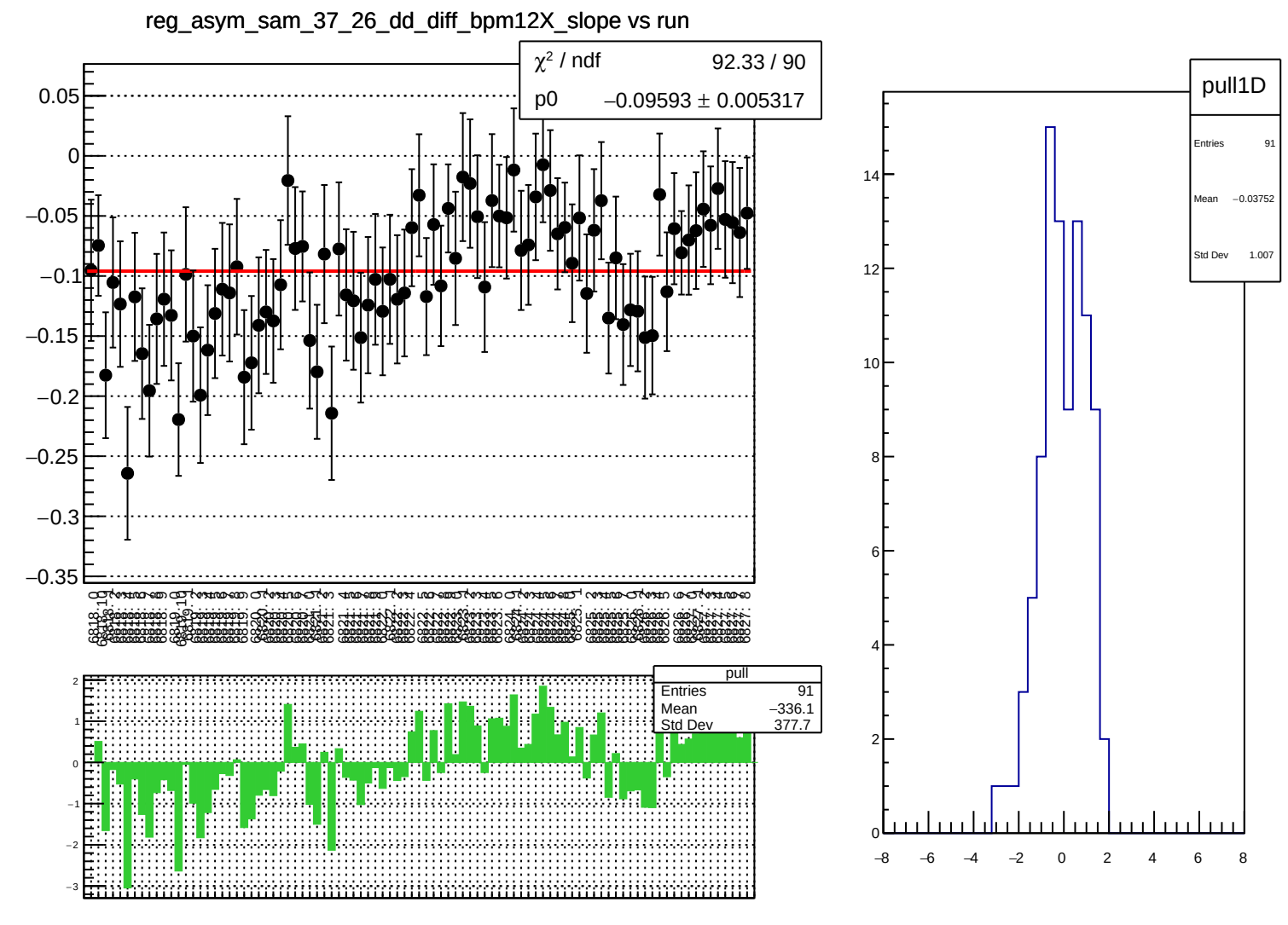

pull1D
Entries 91
Mean 0.085
Std Dev 1.25

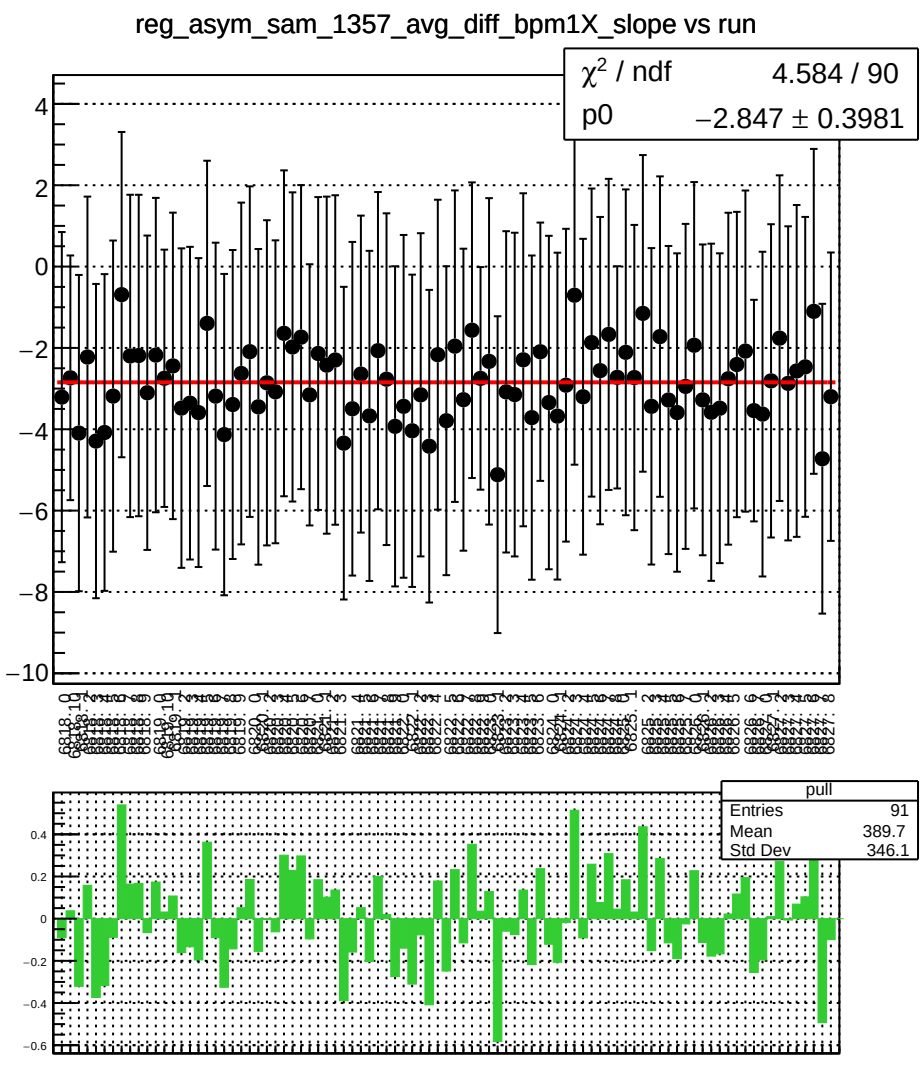

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.65 / 90
p0 −9.806 ± 0.1271
pull
Entries 91
Mean −70.35
Std Dev 131.3

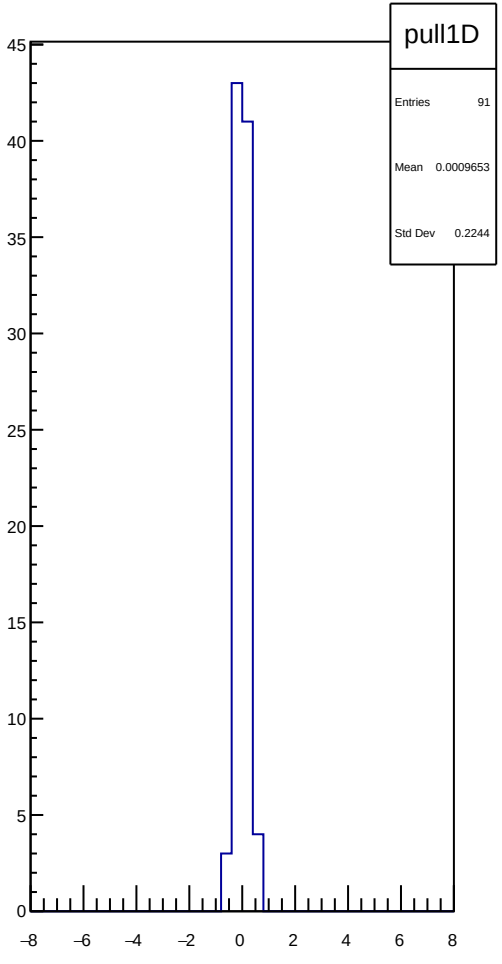

pull1D
Entries 91
Mean −0.01089
Std Dev 0.5896

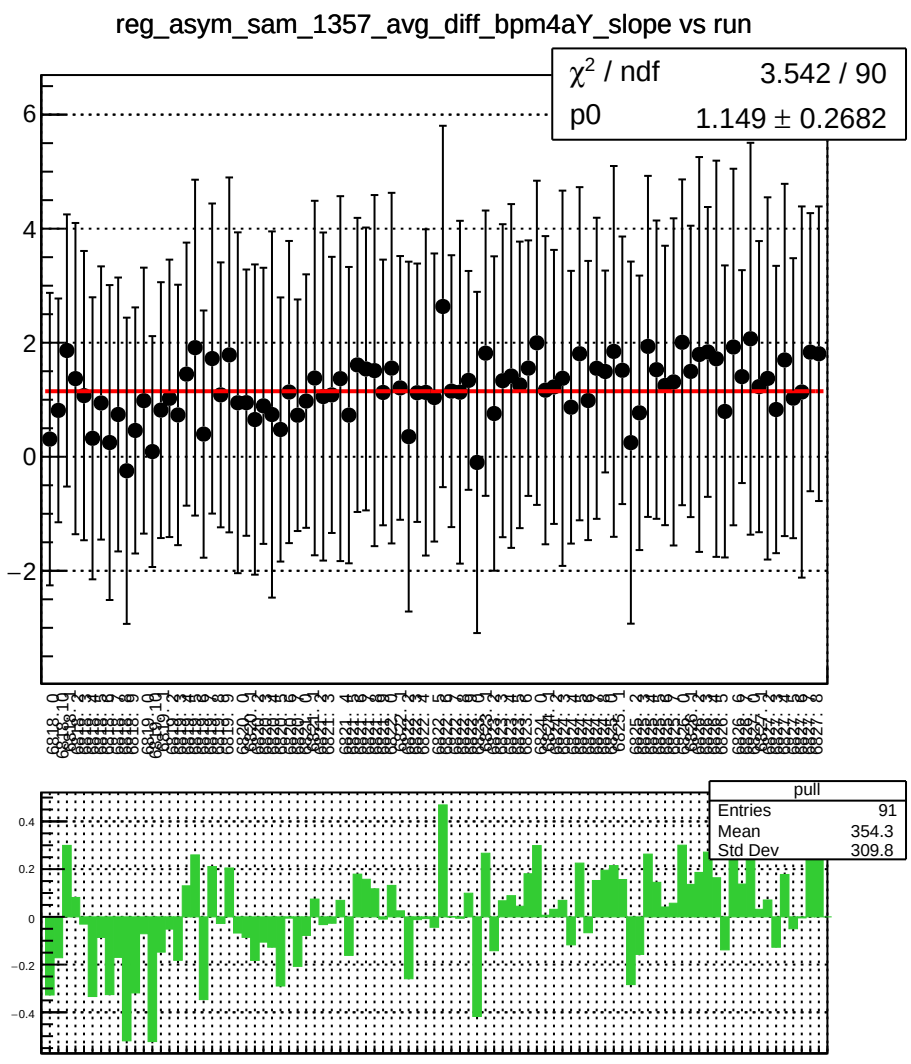

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 152.4 / 90
p0 21.19 ± 0.1067
pull
Entries 91
Mean 1218
Std Dev 1175

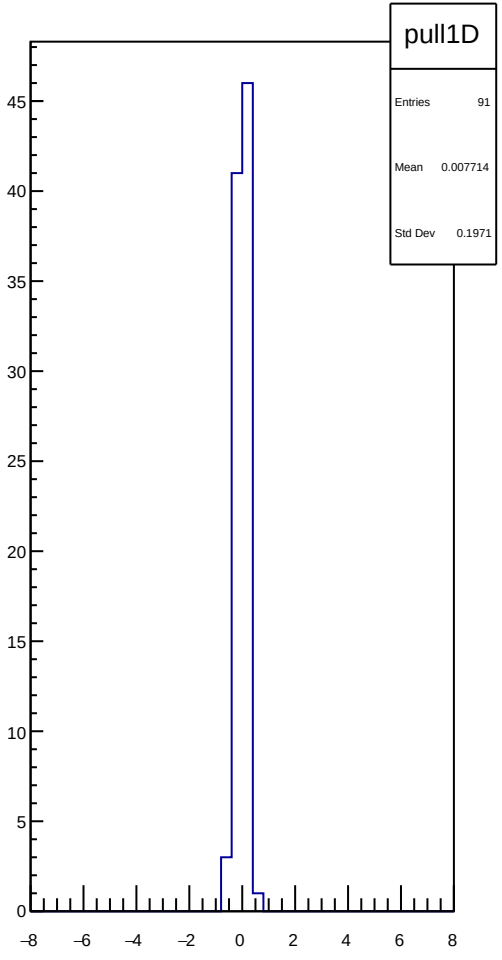

pull1D
Entries 91
Mean −0.01256
Std Dev 1.294

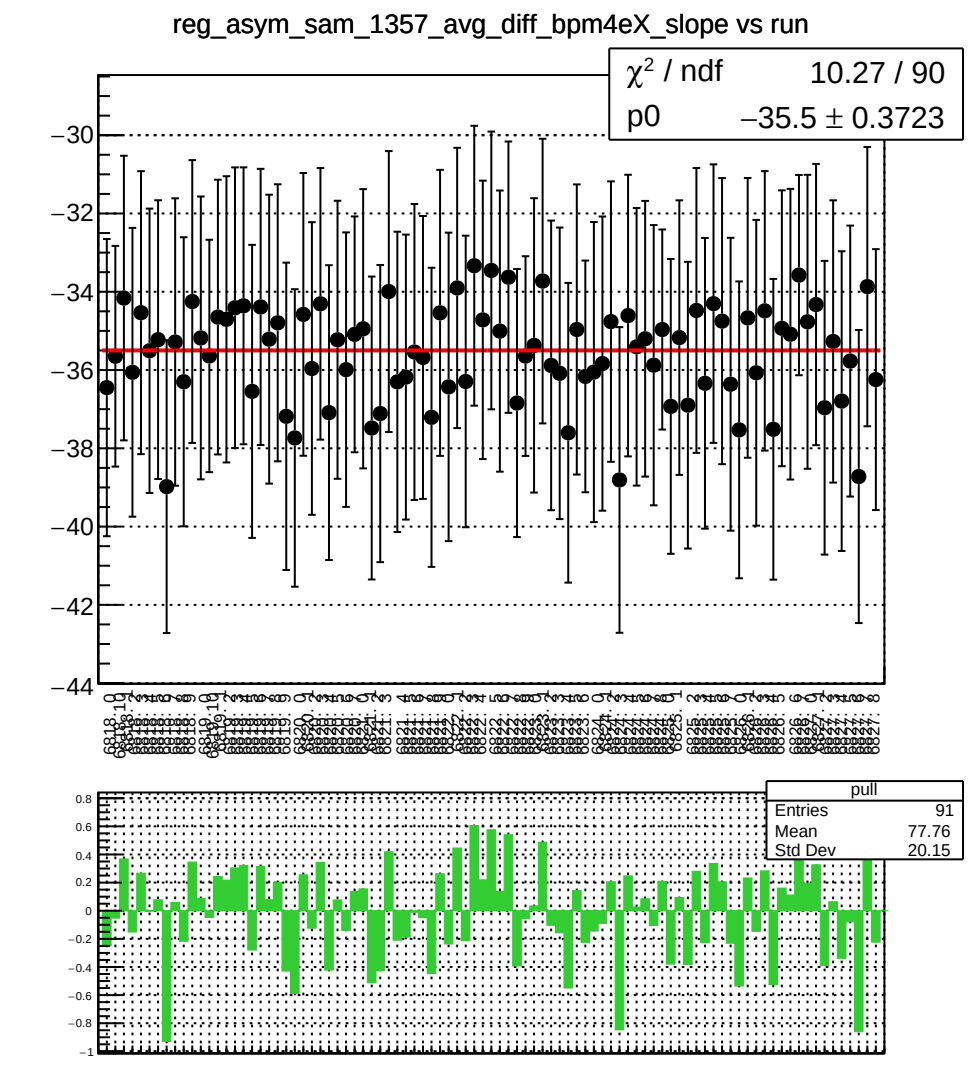

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 92.33 / 90
p0 −0.09593 ± 0.005317
pull
Entries 91
Mean −336.1
Std Dev 377.7
pull1D
Entries 91
Mean −0.03752
Std Dev 1.007

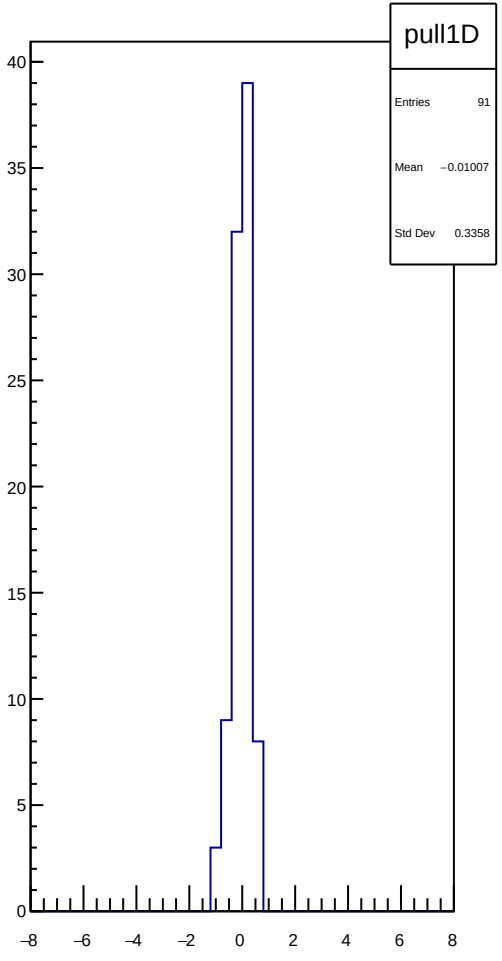

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 4.584 / 90
p0 −2.847 ± 0.3981
pull
Entries 91
Mean 389.7
Std Dev 346.1

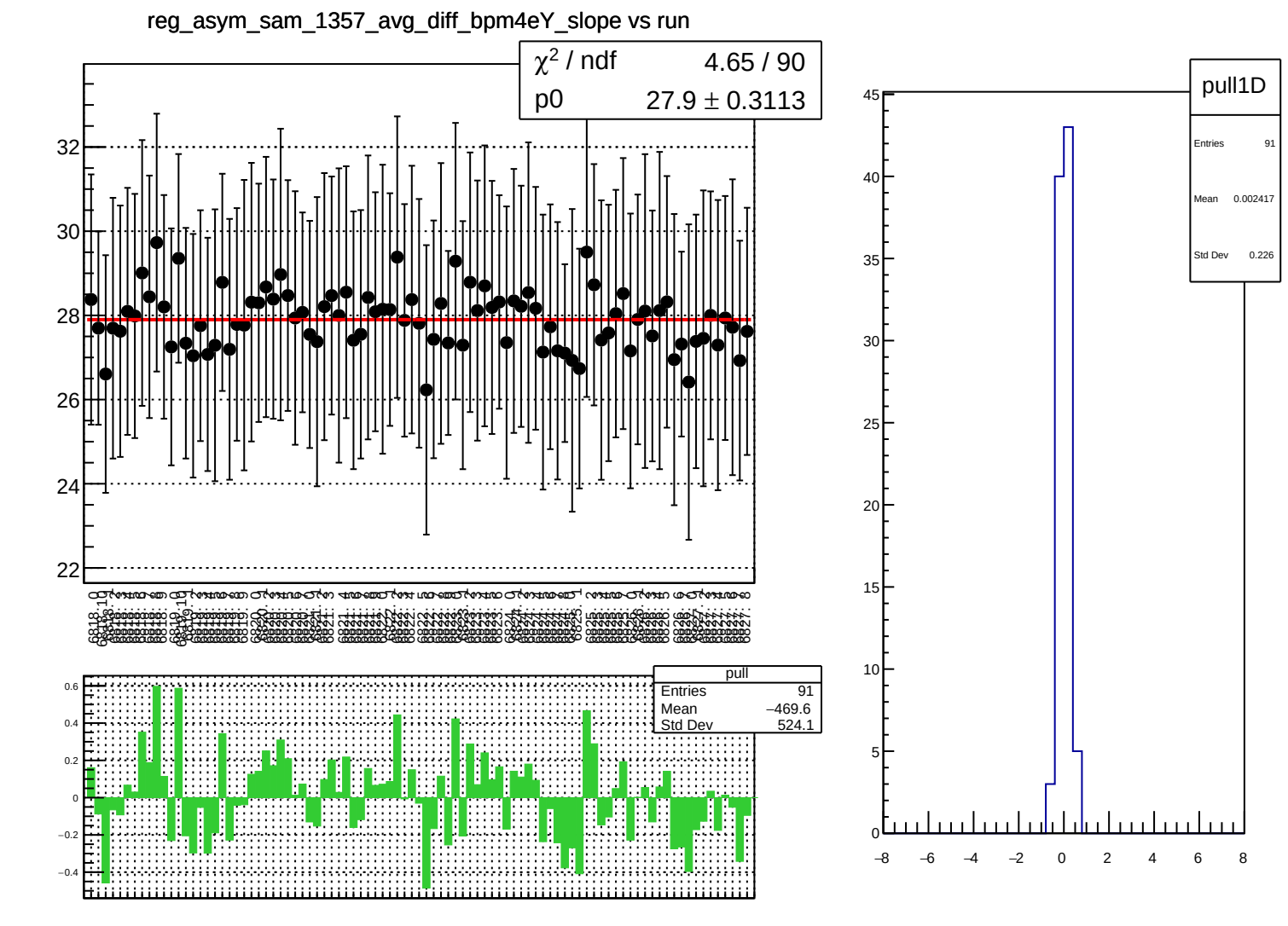

pull1D
Entries 91
Mean 0.0009653
Std Dev 0.2244

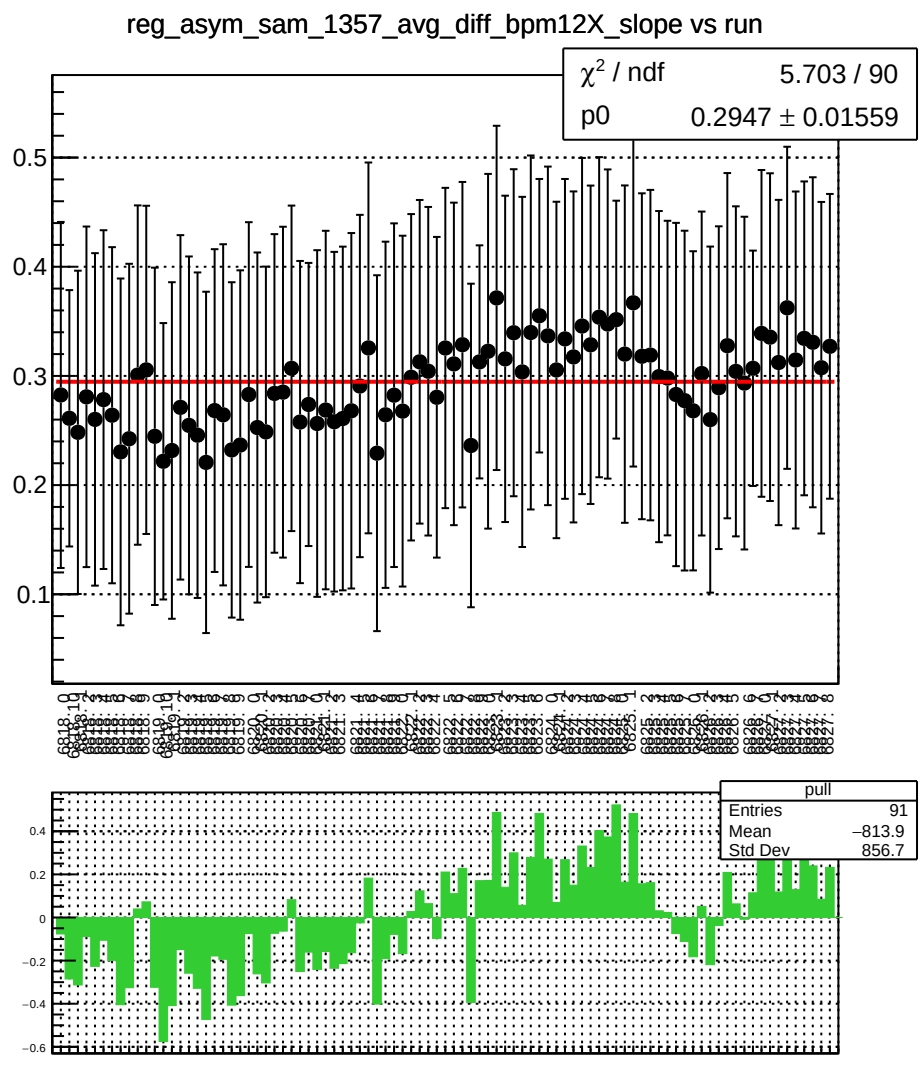

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.542 / 90
p0 1.149 ± 0.2682
pull
Entries 91
Mean 354.3
Std Dev 309.8

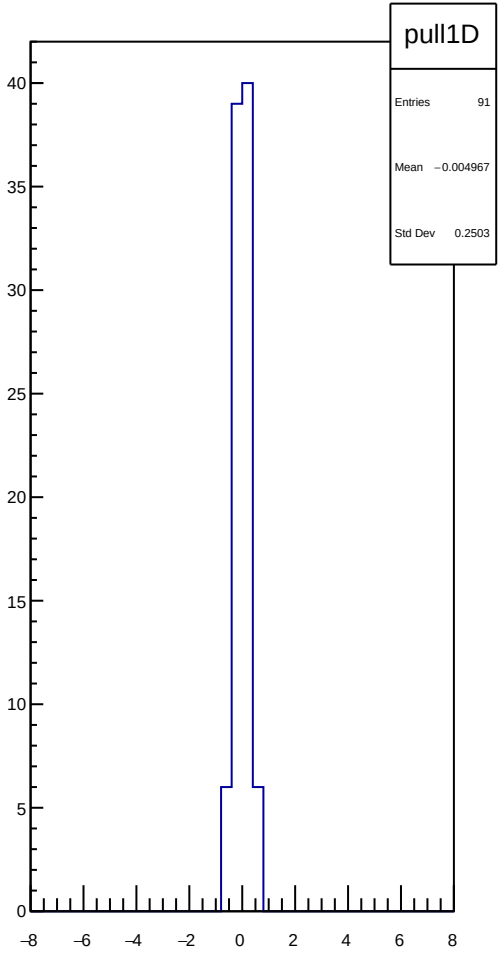

pull1D
Entries 91
Mean 0.007714
Std Dev 0.1971

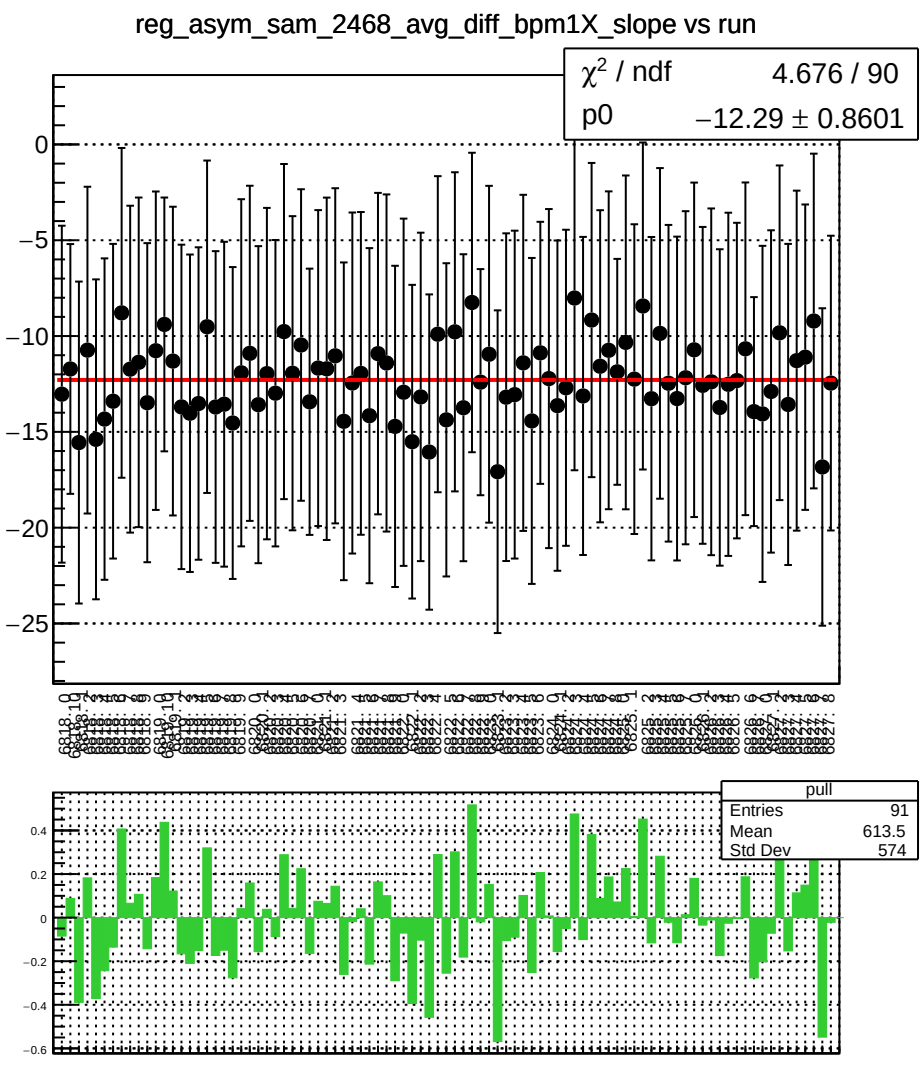

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.27 / 90
p0 −35.5 ± 0.3723
pull
Entries 91
Mean 77.76
Std Dev 20.15

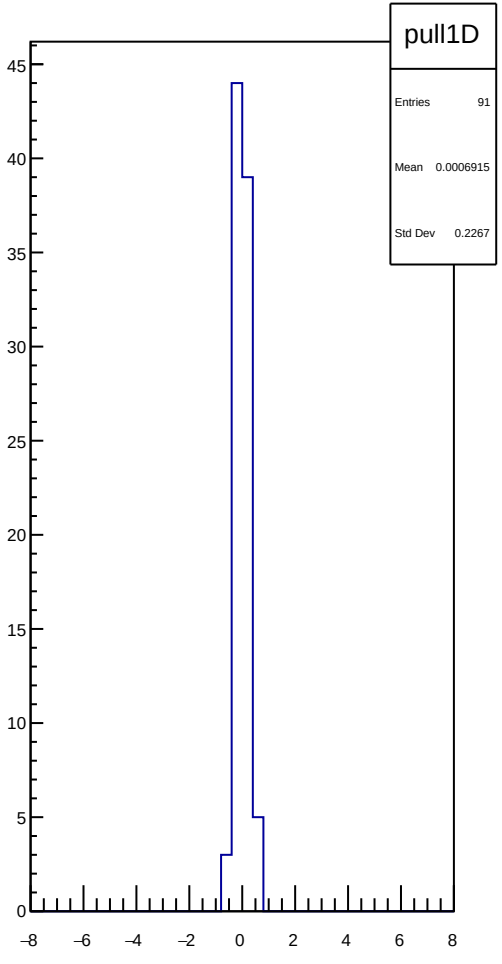

pull1D
Entries 91
Mean −0.01007
Std Dev 0.3358

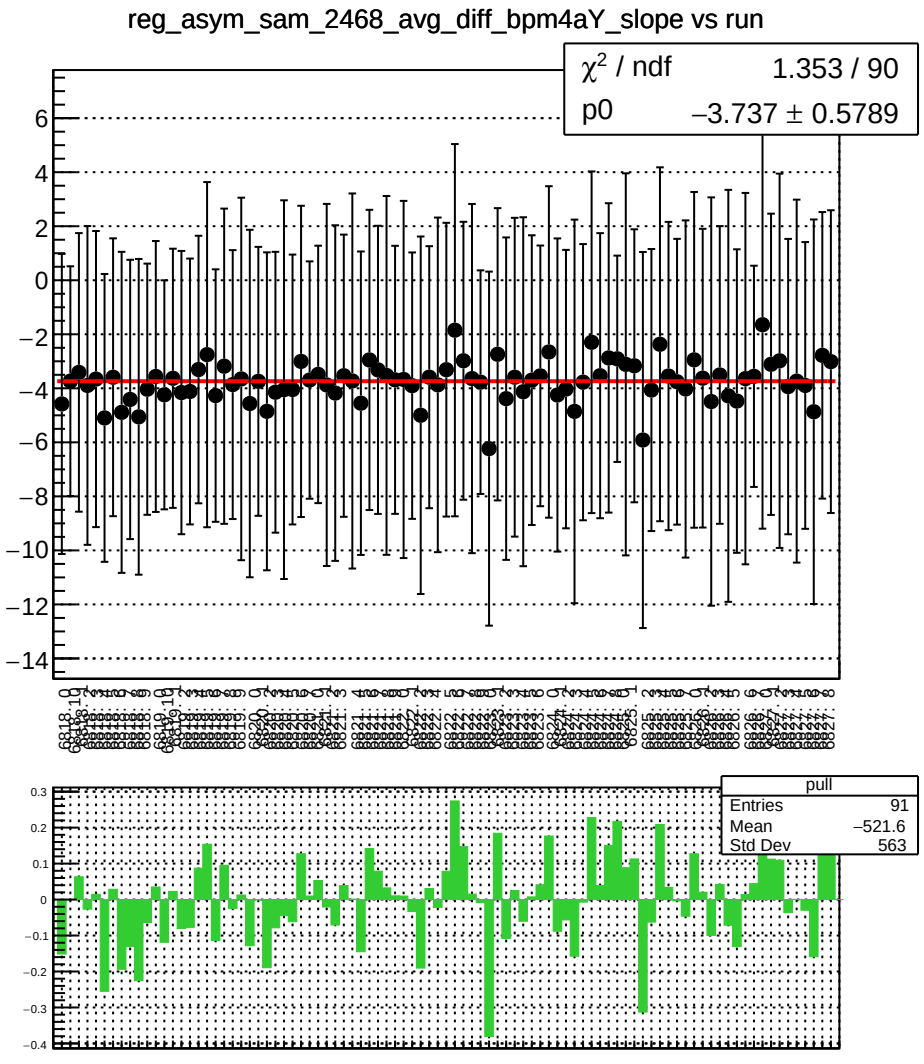

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.65 / 90
p0 27.9 ± 0.3113
pull
Entries 91
Mean −469.6
Std Dev 524.1
pull1D
Entries 91
Mean 0.002417
Std Dev 0.226

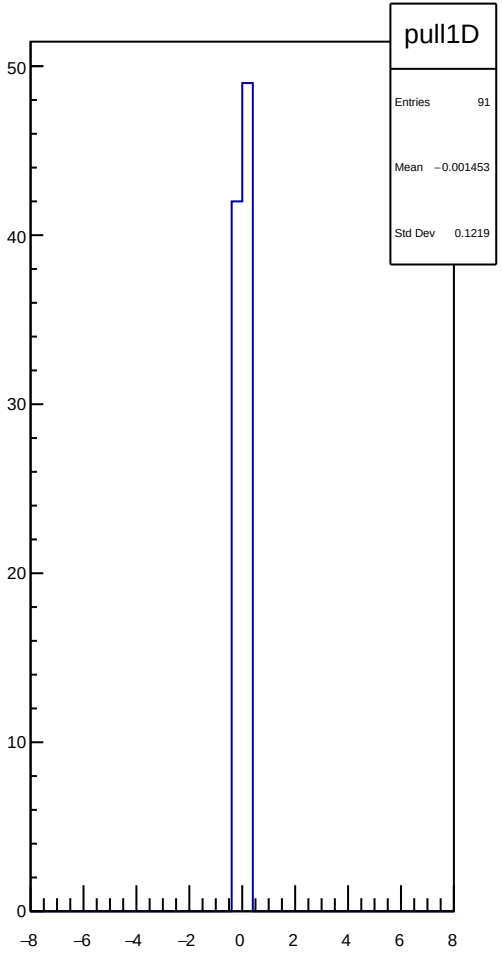

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 5.703 / 90
p0 0.2947 ± 0.01559
pull
Entries 91
Mean −813.9
Std Dev 856.7

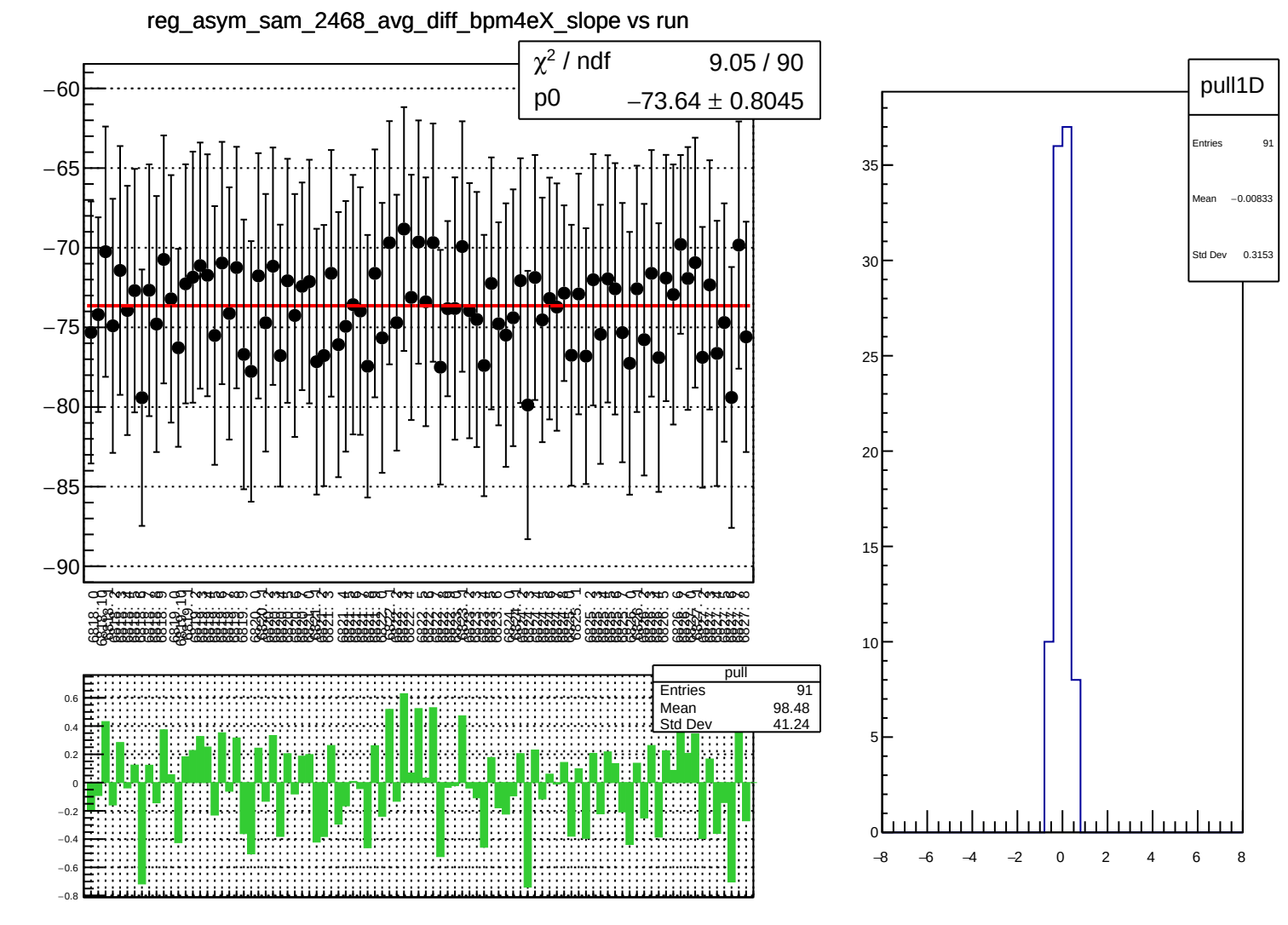

pull1D
Entries 91
Mean −0.004967
Std Dev 0.2503

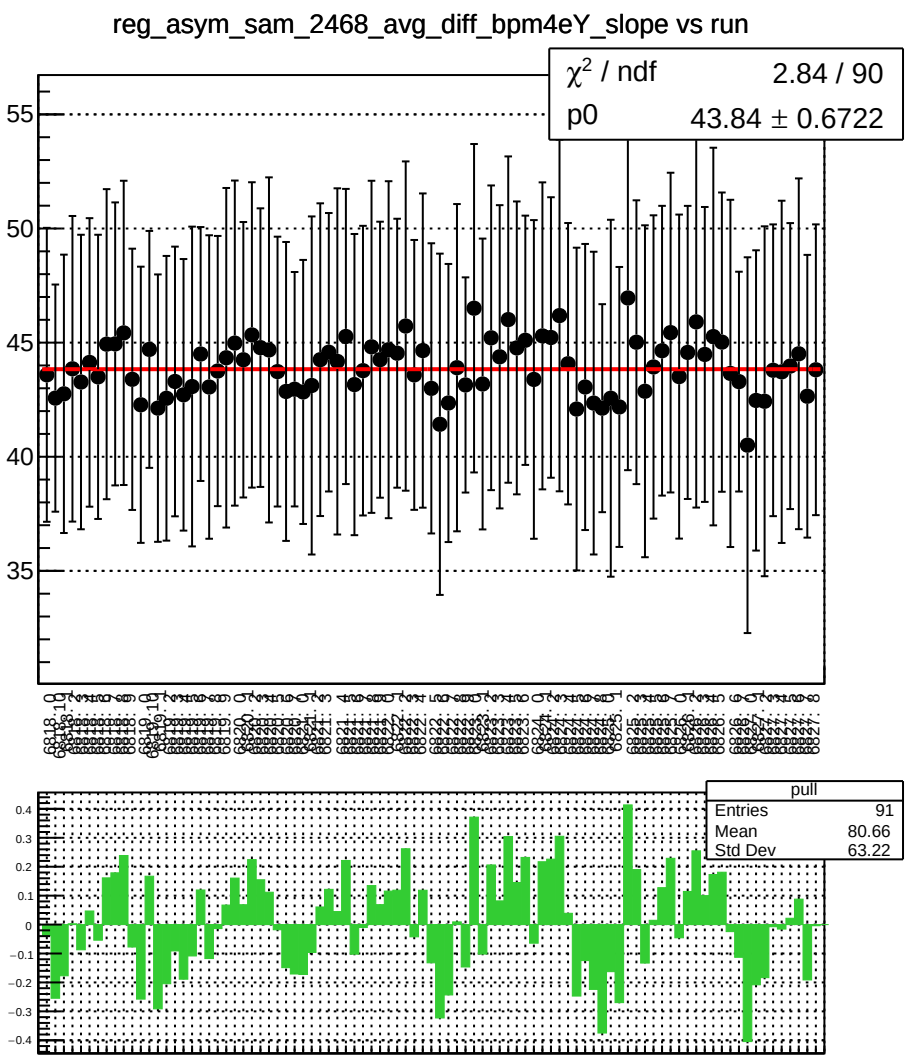

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 4.676 / 90
p0 −12.29 ± 0.8601
pull
Entries 91
Mean 613.5
Std Dev 574

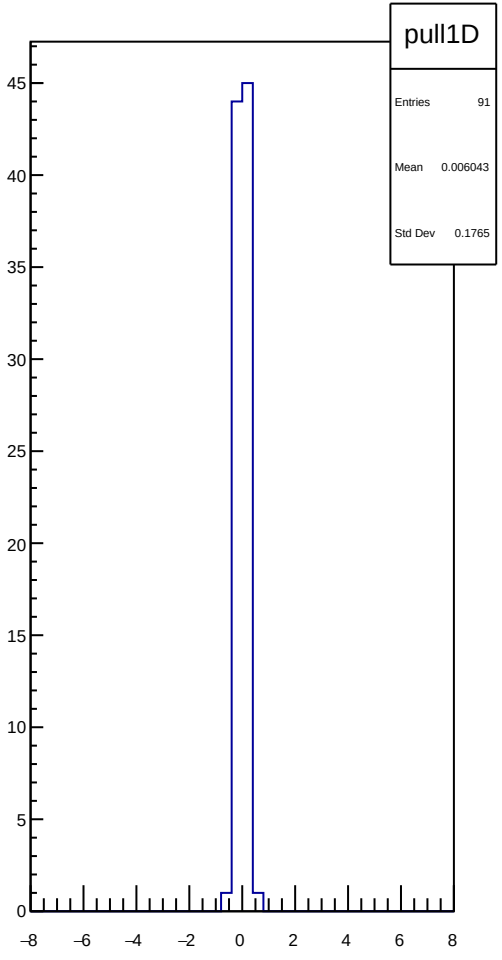

pull1D
Entries 91
Mean 0.0006915
Std Dev 0.2267

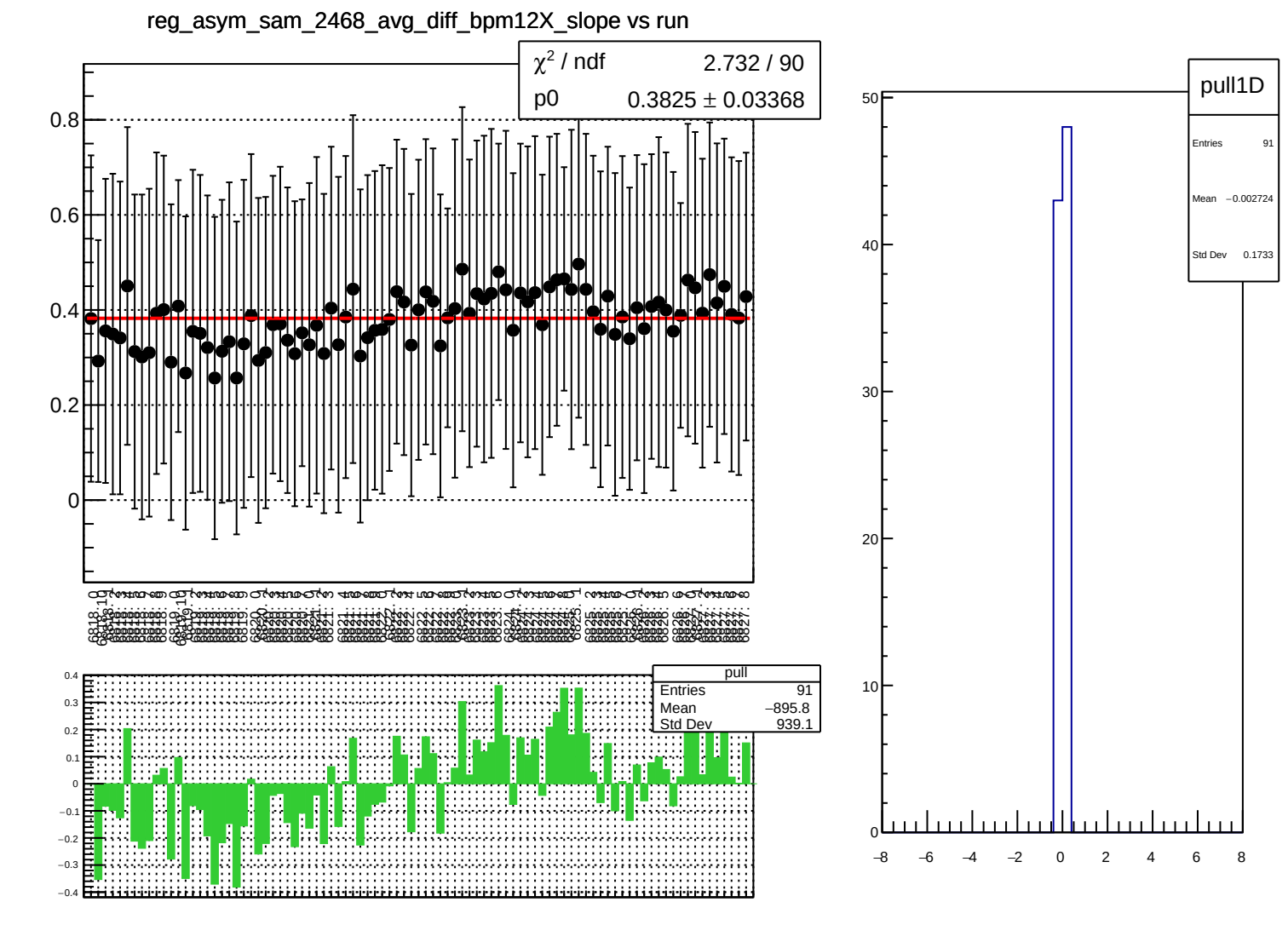

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.353 / 90
p0 −3.737 ± 0.5789
pull
Entries 91
Mean −521.6
Std Dev 563

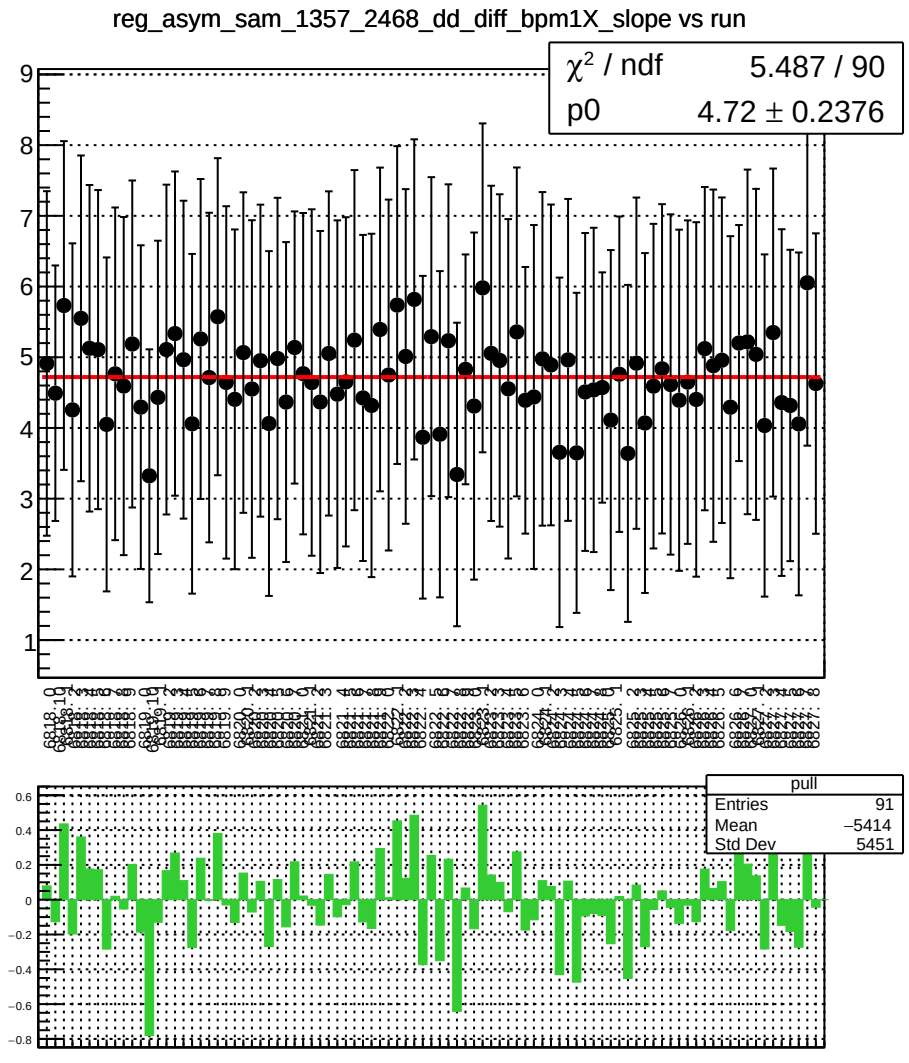

pull1D
Entries 91
Mean −0.001453
Std Dev 0.1219

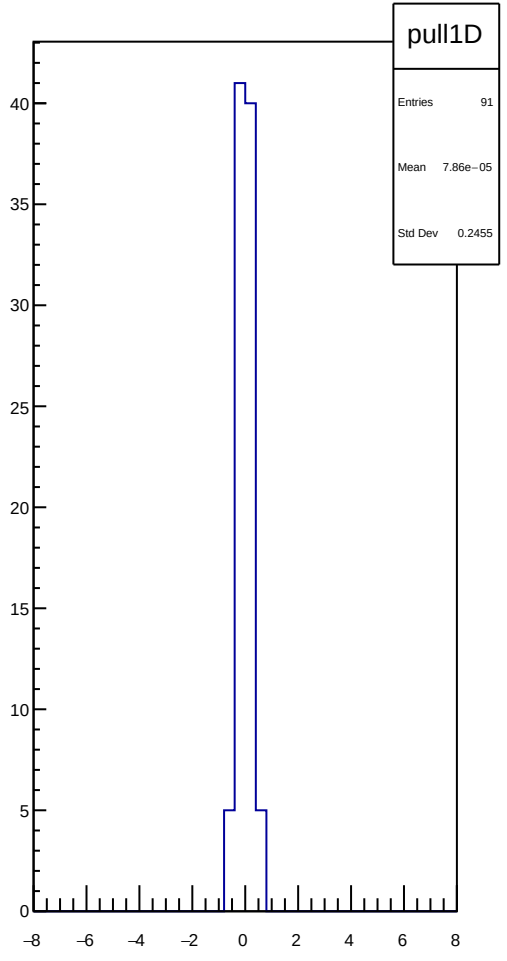

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.05 / 90
p0 −73.64 ± 0.8045
pull
Entries 91
Mean 98.48
Std Dev 41.24
pull1D
Entries 91
Mean −0.00833
Std Dev 0.3153

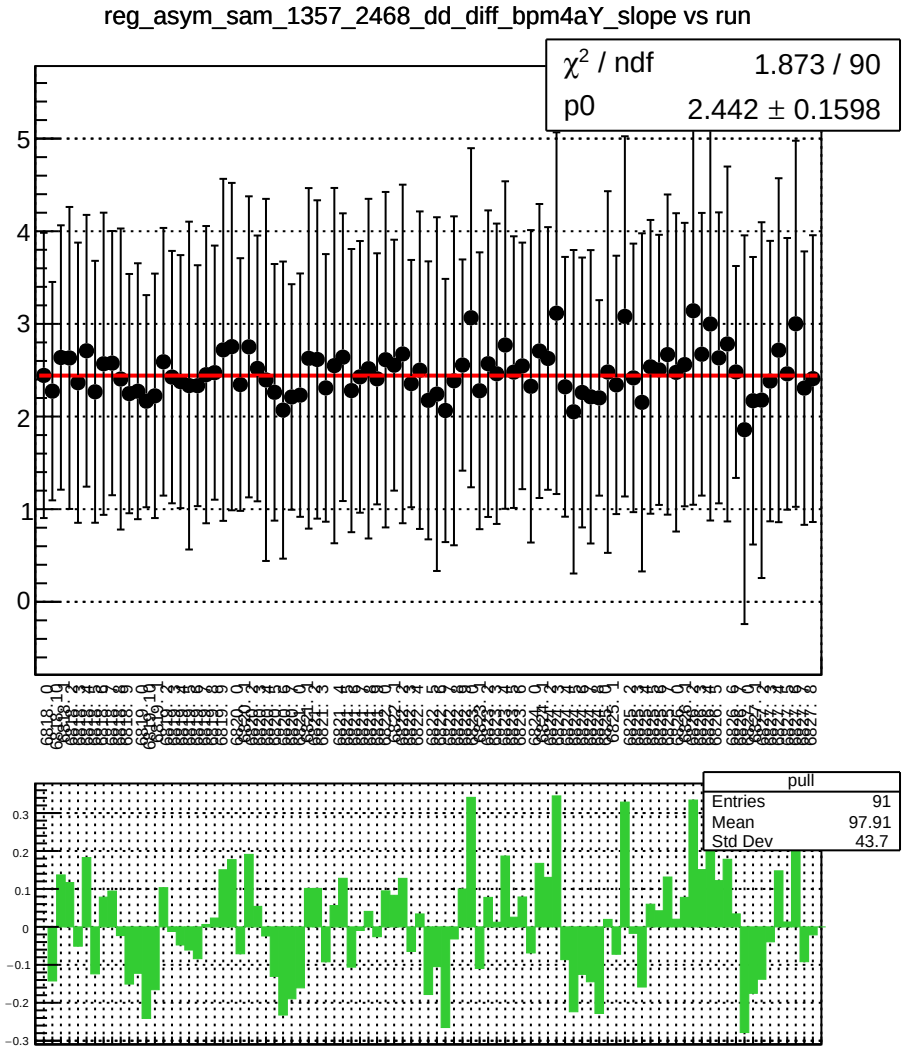

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.84 / 90
p0 43.84 ± 0.6722
pull
Entries 91
Mean 80.66
Std Dev 63.22

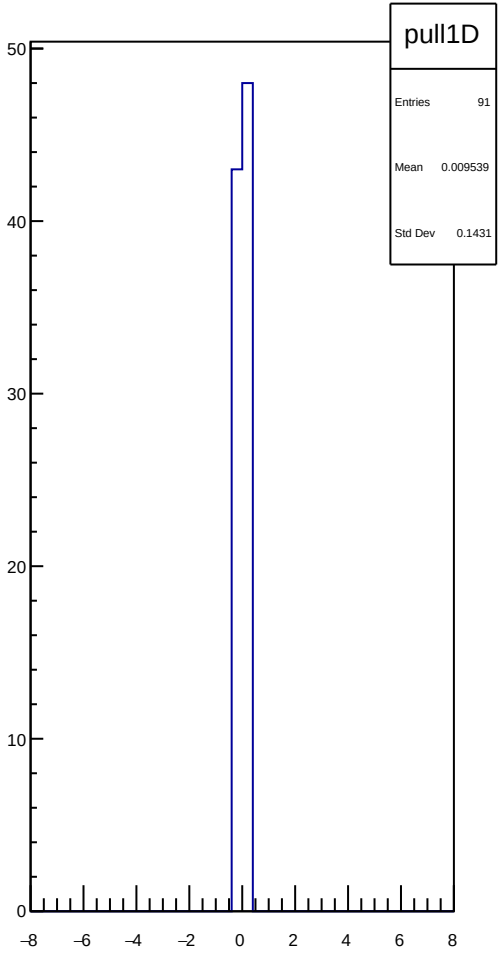

pull1D
Entries 91
Mean 0.006043
Std Dev 0.1765

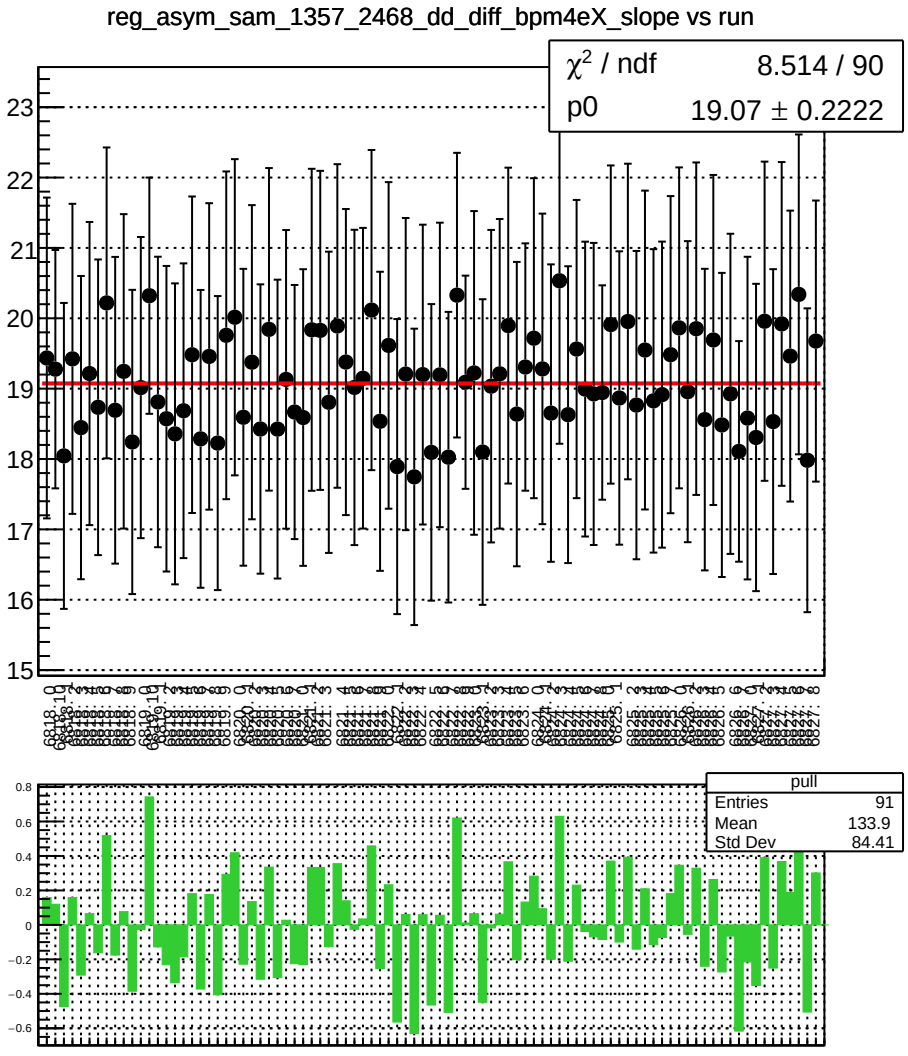

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.732 / 90
p0 0.3825 ± 0.03368
pull
Entries 91
Mean −895.8
Std Dev 939.1
pull1D
Entries 91
Mean −0.002724
Std Dev 0.1733

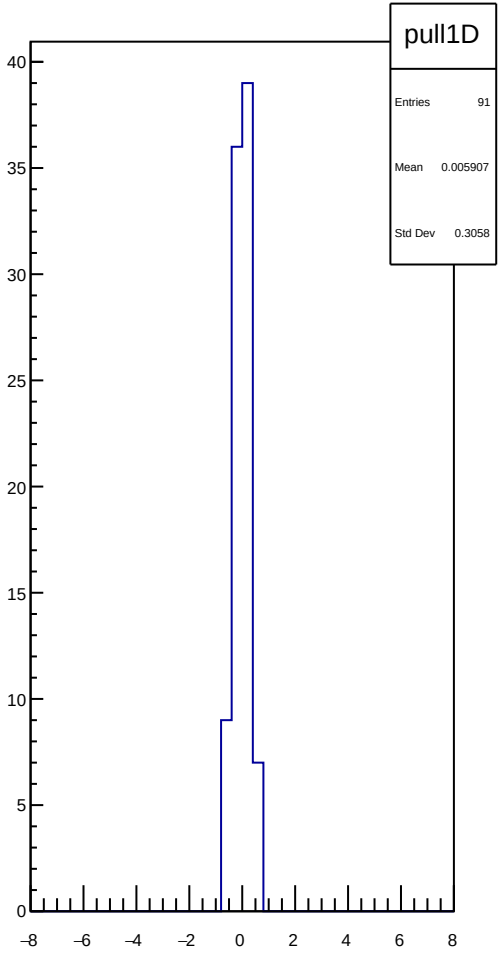

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 5.487 / 90
p0 4.72 ± 0.2376
pull
Entries 91
Mean −5414
Std Dev 5451

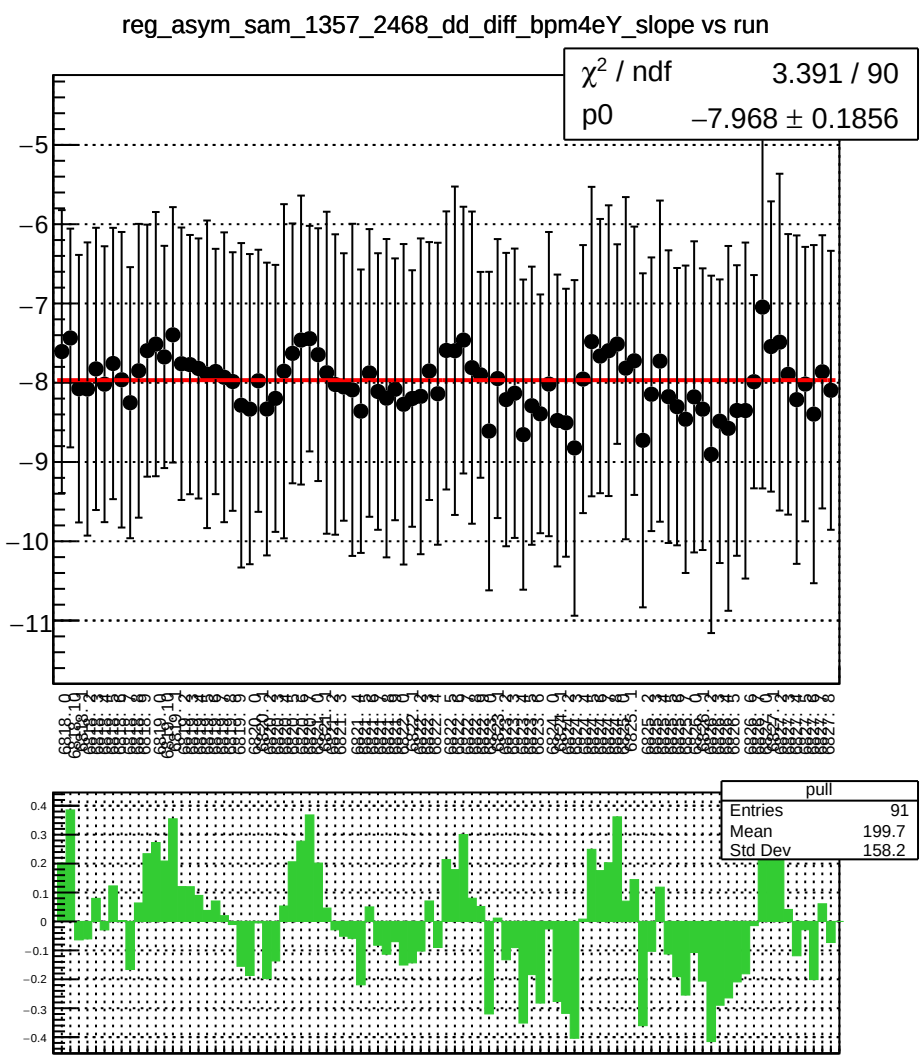

pull1D
Entries 91
Mean 7.86e−05
Std Dev 0.2455

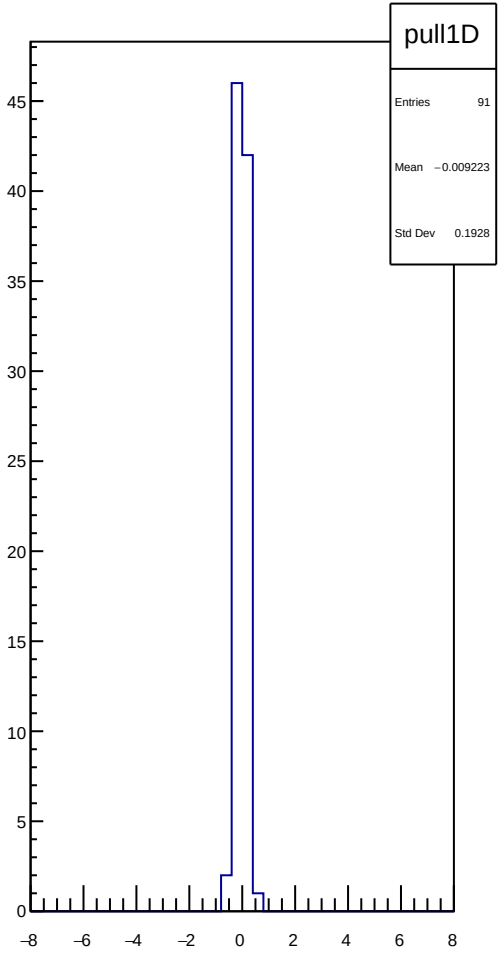

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.873 / 90
p0 2.442 ± 0.1598
pull
Entries 91
Mean 97.91
Std Dev 43.7

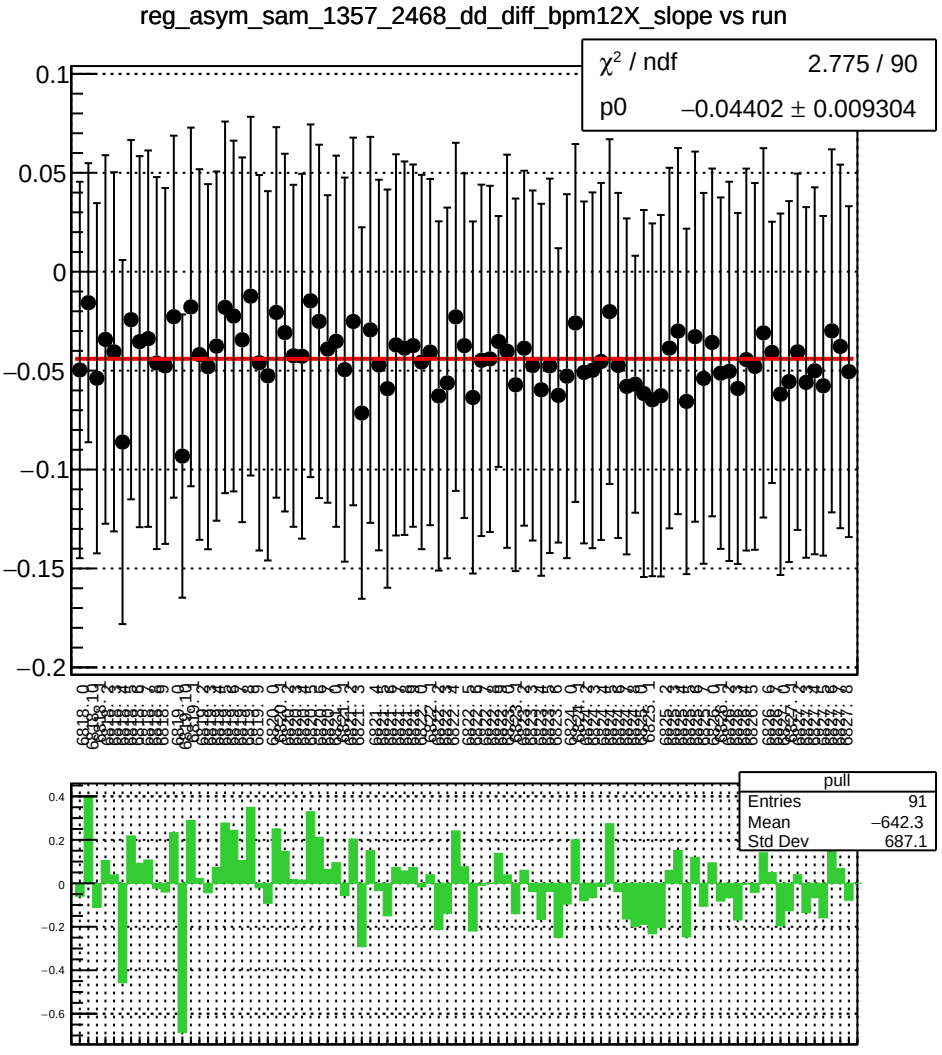

pull1D
Entries 91
Mean 0.009539
Std Dev 0.1431

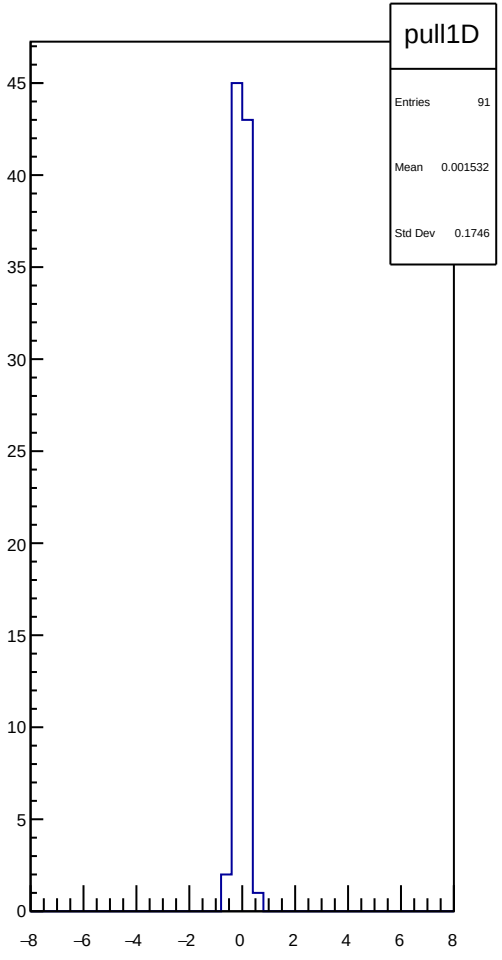

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.514 / 90
p0 19.07 ± 0.2222
pull
Entries 91
Mean 133.9
Std Dev 84.41

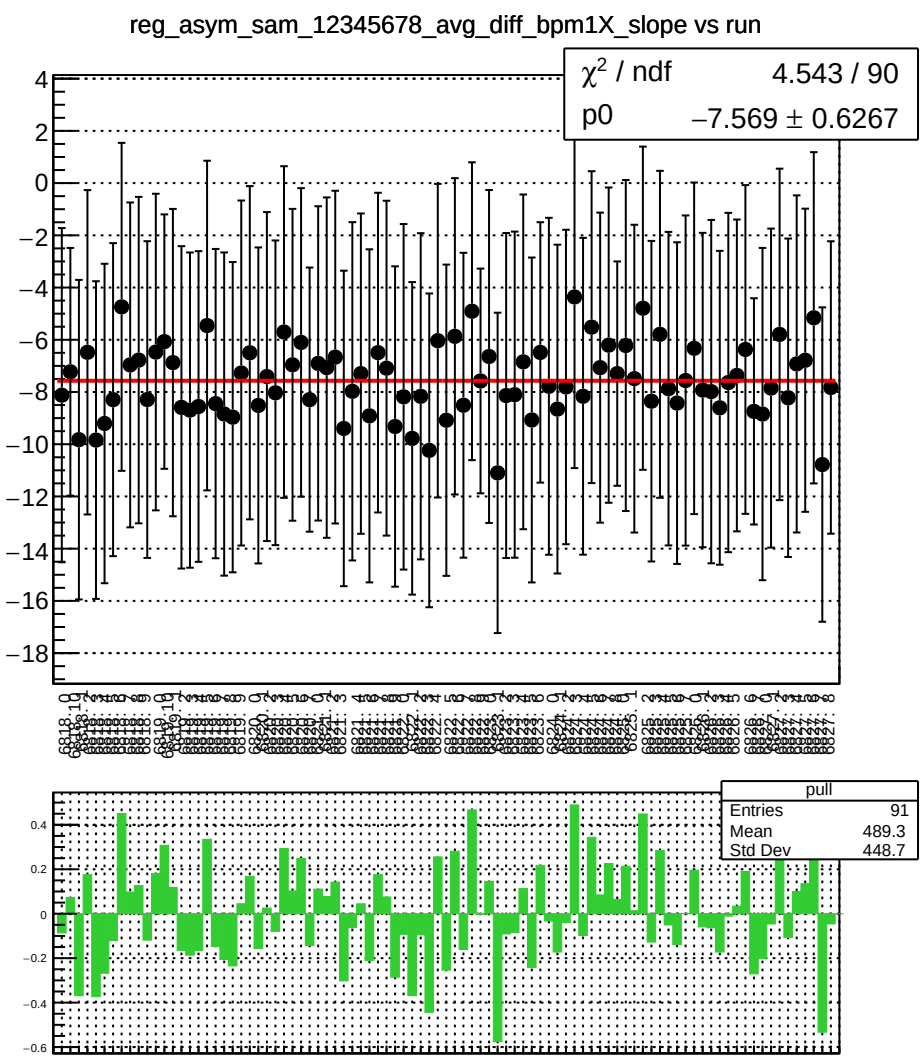

pull1D
Entries 91
Mean 0.005907
Std Dev 0.3058

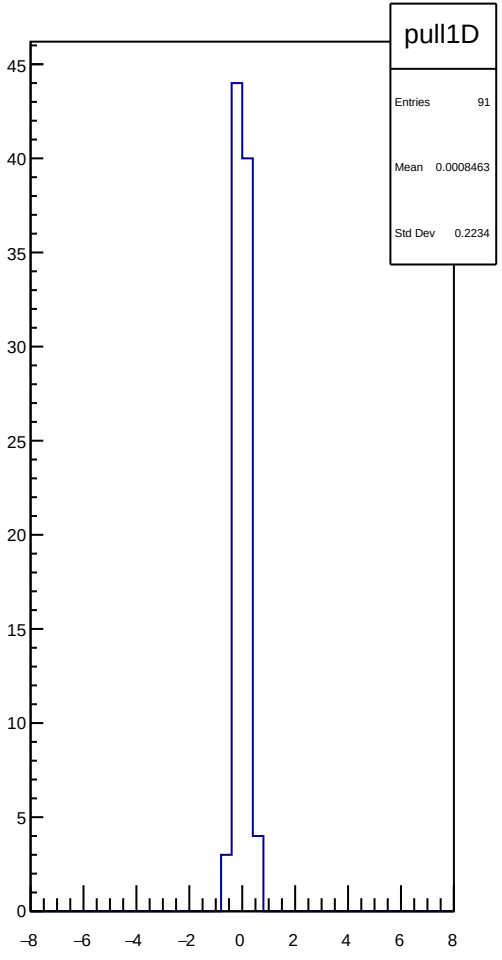

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.391 / 90
p0 −7.968 ± 0.1856
pull
Entries 91
Mean 199.7
Std Dev 158.2

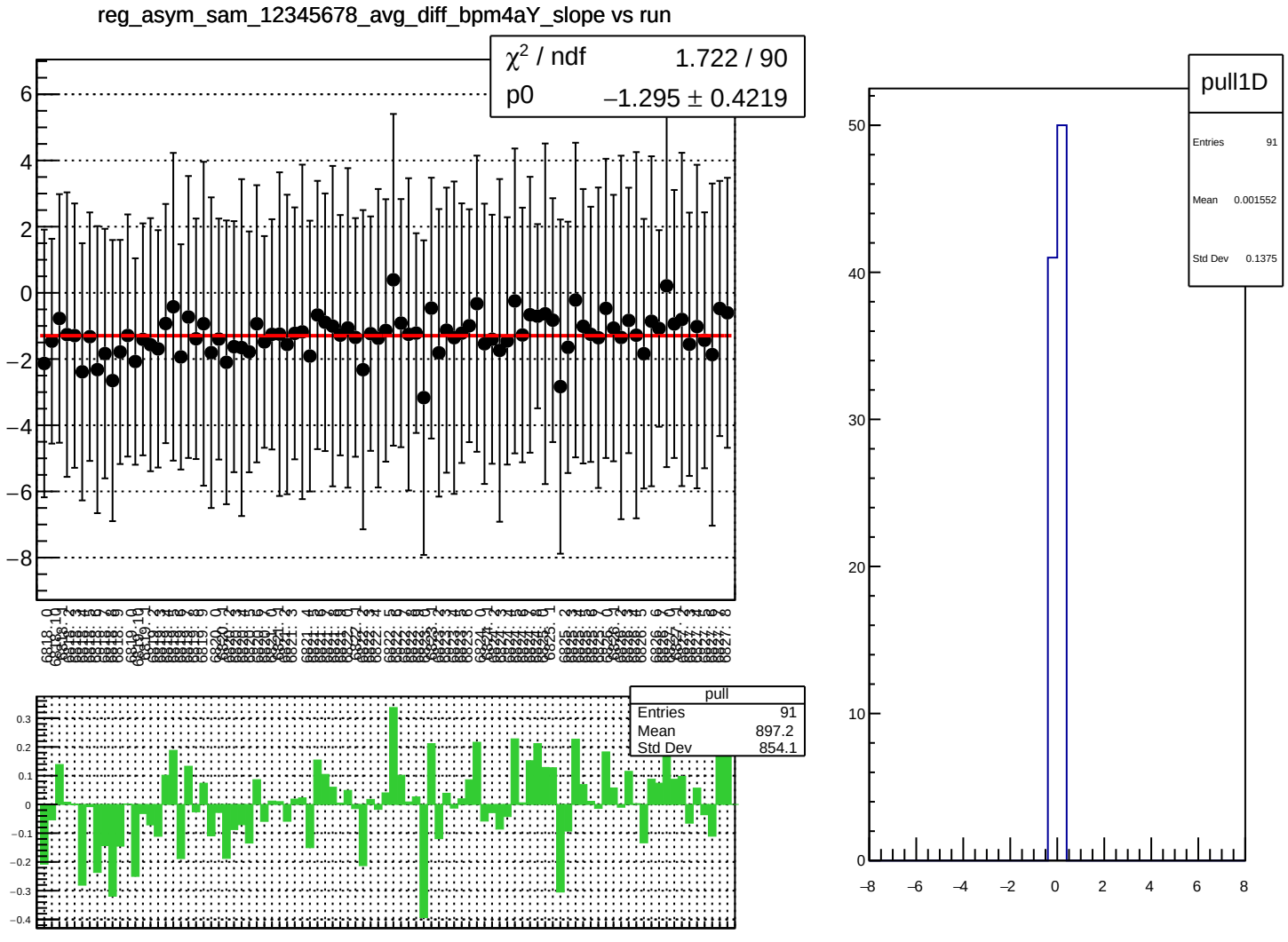

pull1D
Entries 91
Mean −0.009223
Std Dev 0.1928

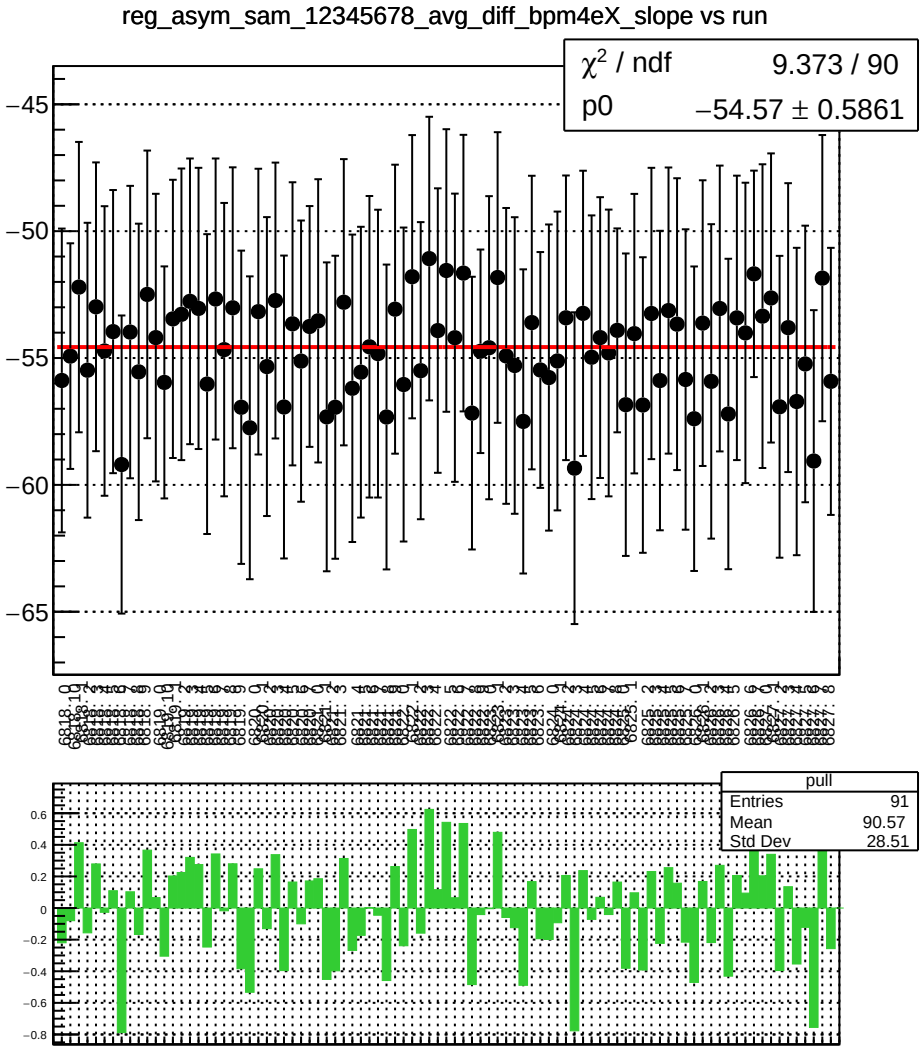

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.775 / 90
p0 −0.04402 ± 0.009304
pull
Entries 91
Mean −642.3
Std Dev 687.1

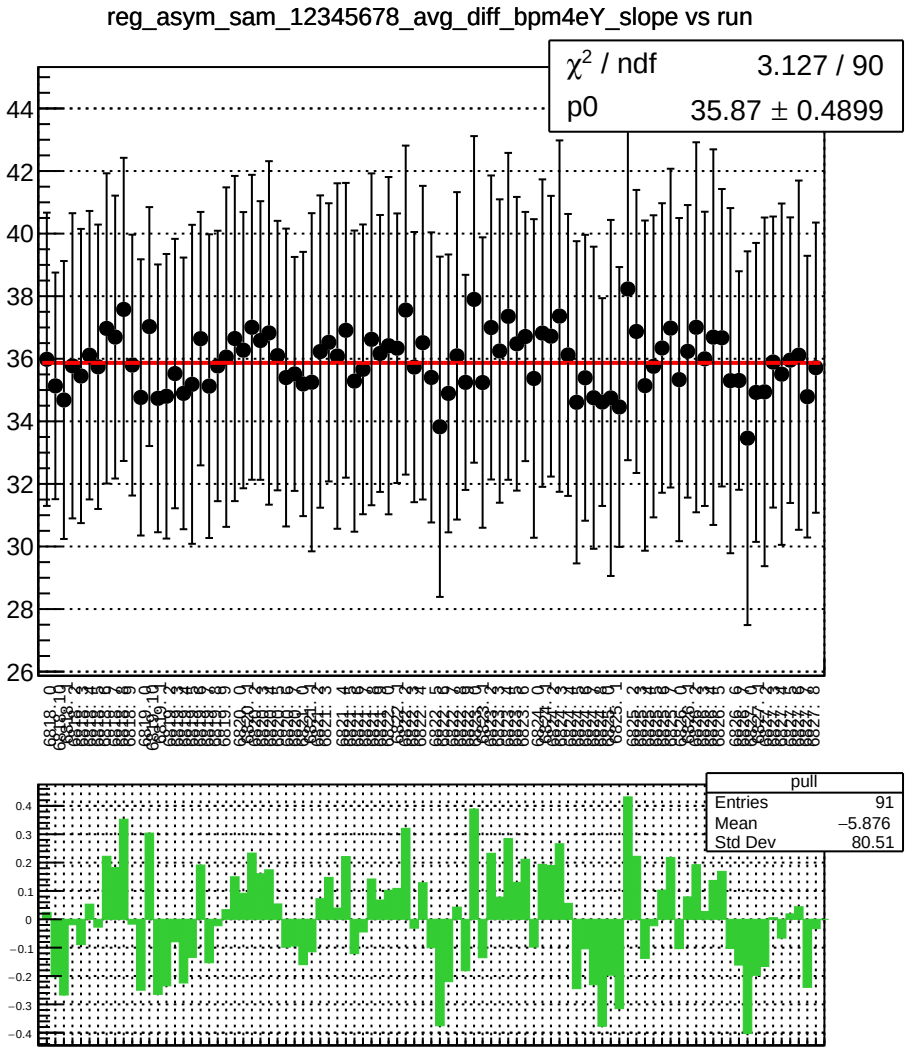

pull1D
Entries 91
Mean 0.001532
Std Dev 0.1746

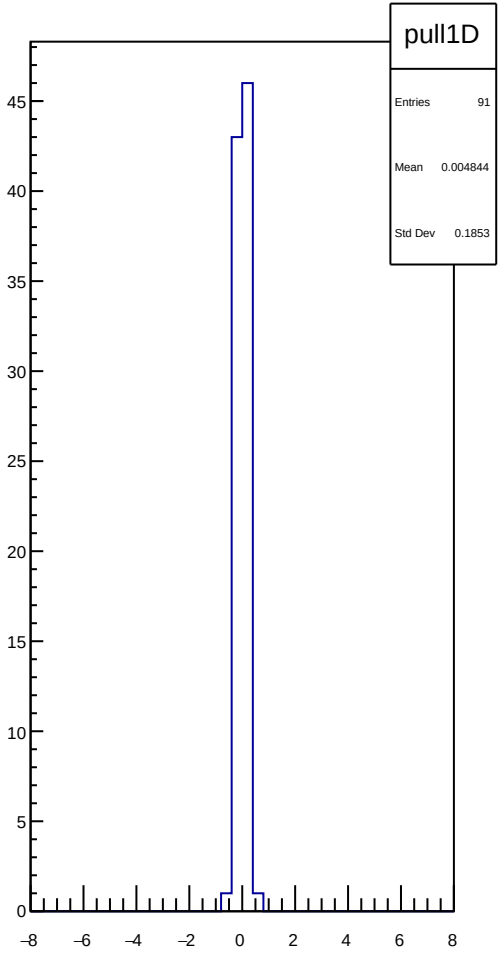

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 4.543 / 90
p0 −7.569 ± 0.6267
pull
Entries 91
Mean 489.3
Std Dev 448.7

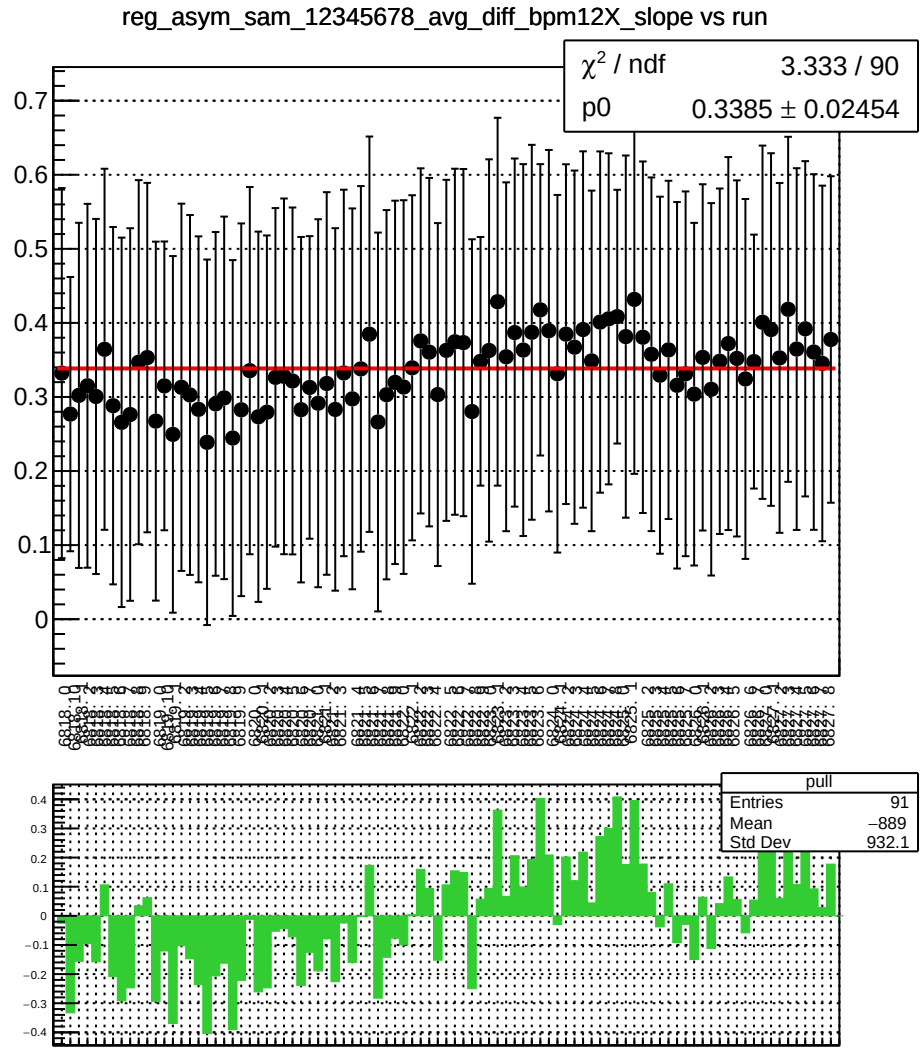

pull1D
Entries 91
Mean 0.0008463
Std Dev 0.2234

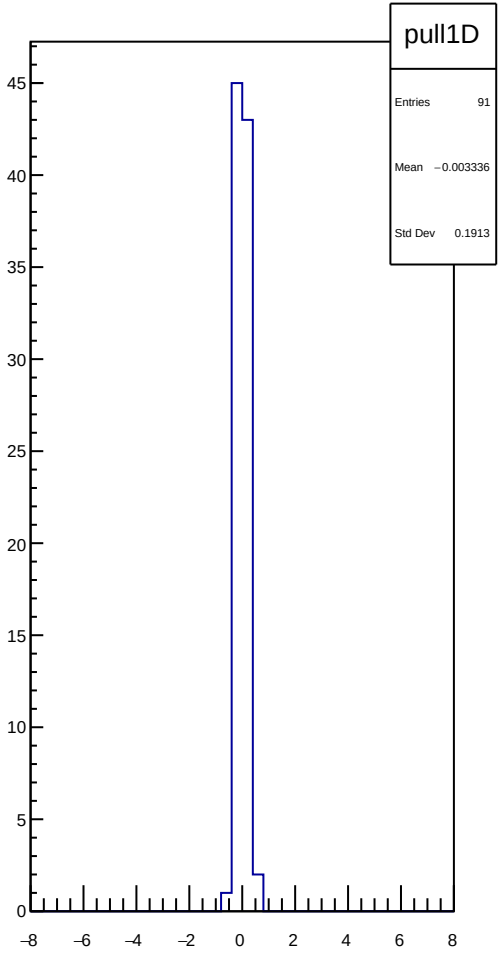

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.722 / 90
p0 −1.295 ± 0.4219
pull
Entries 91
Mean 897.2
Std Dev 854.1
pull1D
Entries 91
Mean 0.001552
Std Dev 0.1375

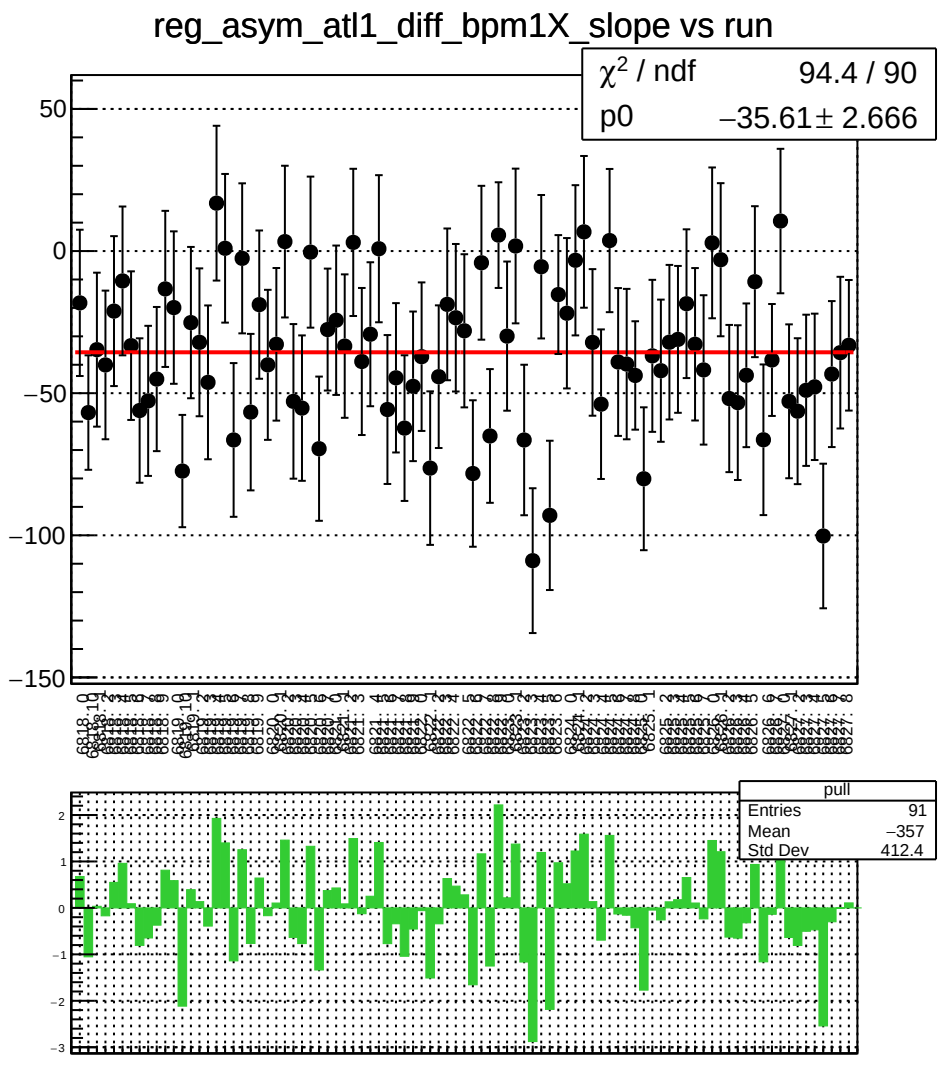

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.373 / 90
p0 −54.57 ± 0.5861
−45
−50
−55
−60
−65
pull
Entries 91
Mean 90.57
Std Dev 28.51
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 91
Mean −0.009022
Std Dev 0.3208
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

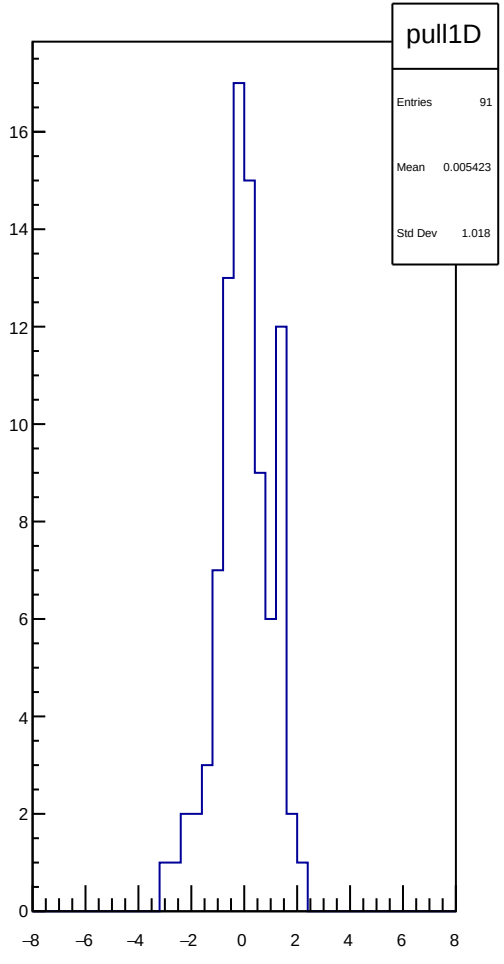

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.127 / 90
p0 35.87 ± 0.4899
pull
Entries 91
Mean −5.876
Std Dev 80.51

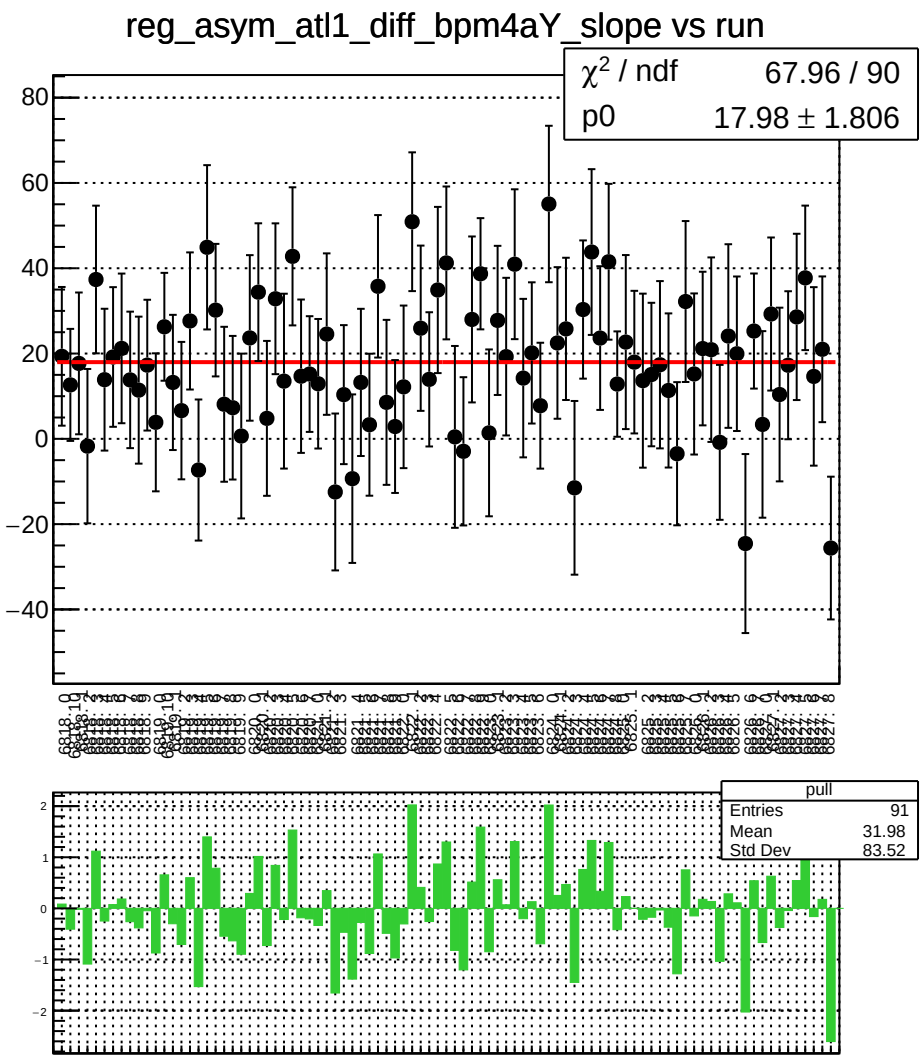

pull1D
Entries 91
Mean 0.004844
Std Dev 0.1853

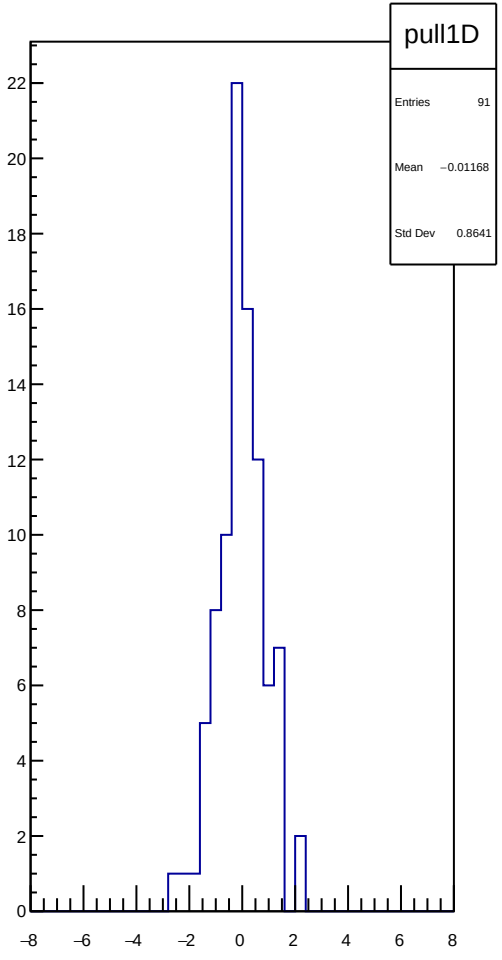

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.333 / 90
p0 0.3385 ± 0.02454
pull
Entries 91
Mean −889
Std Dev 932.1

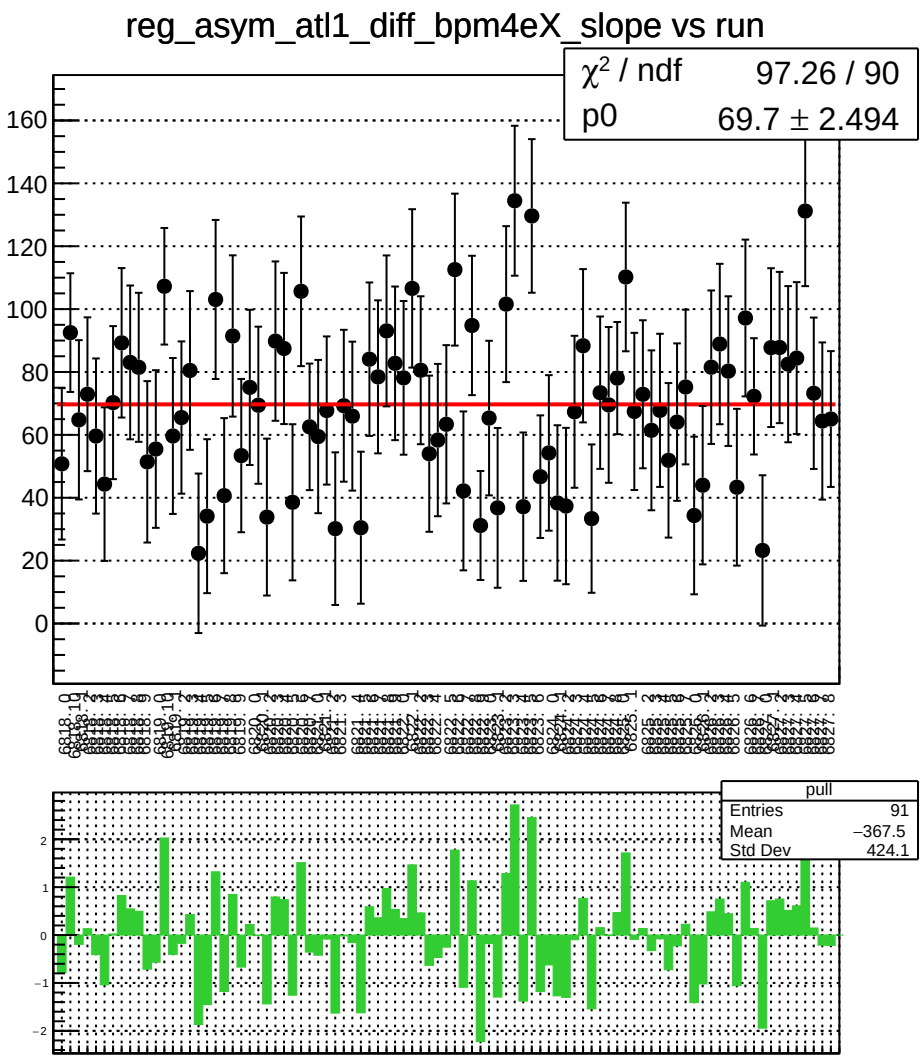

pull1D
Entries 91
Mean −0.003336
Std Dev 0.1913

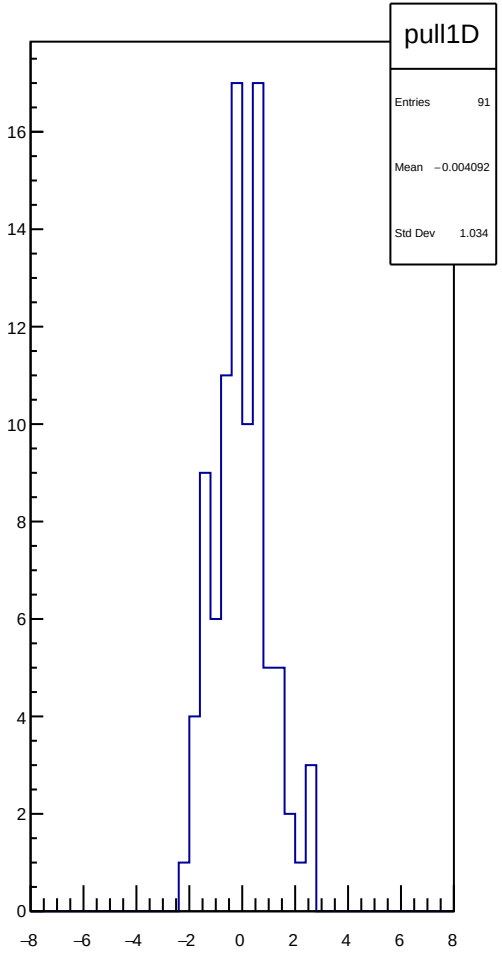

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 94.4 / 90
p0 −35.61 ± 2.666
50
0
−50
−100
−150
pull
Entries 91
Mean −357
Std Dev 412.4
2
1
0
−1
−2
−3

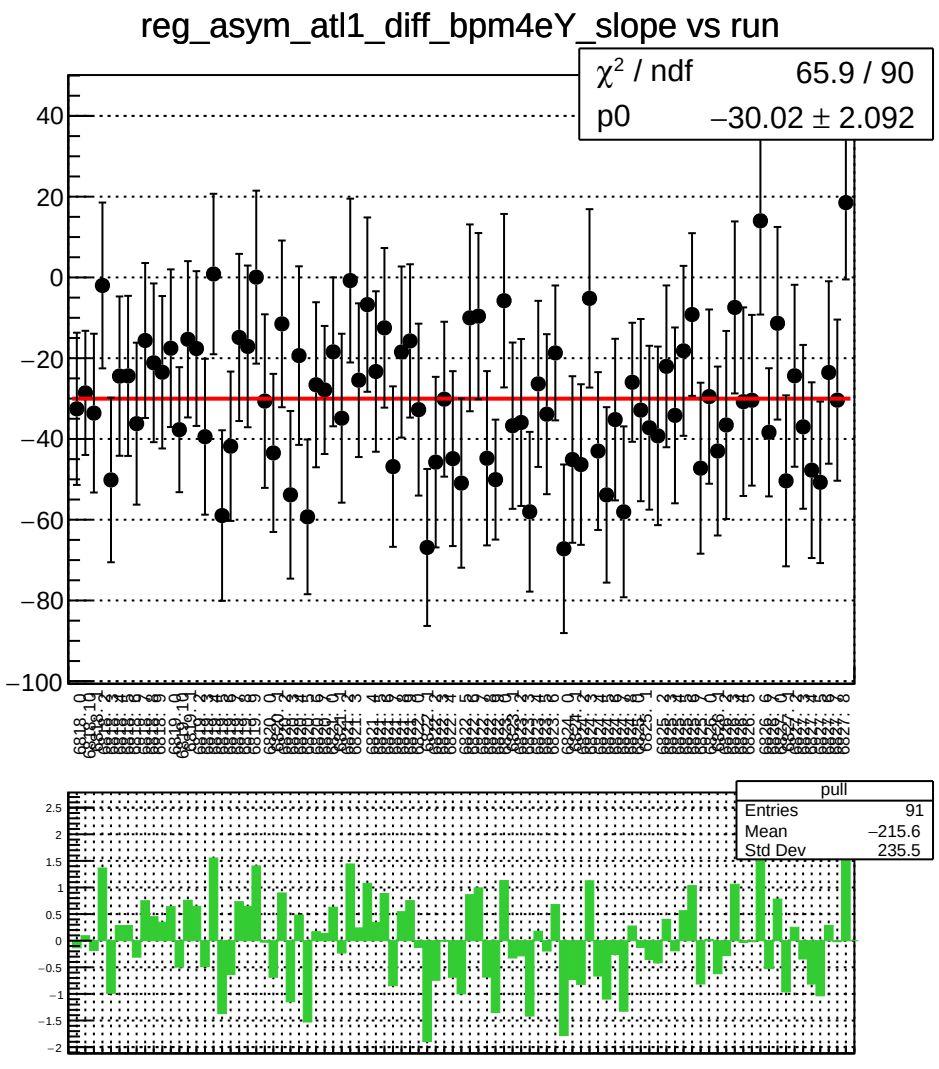

pull1D
Entries 91
Mean 0.005423
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

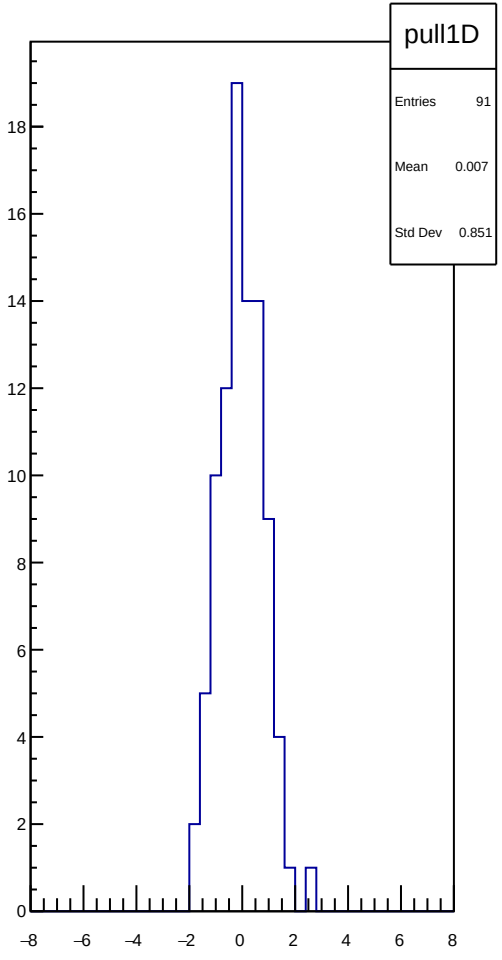

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 67.96 / 90
p0 17.98 ± 1.806
pull
Entries 91
Mean 31.98
Std Dev 83.52

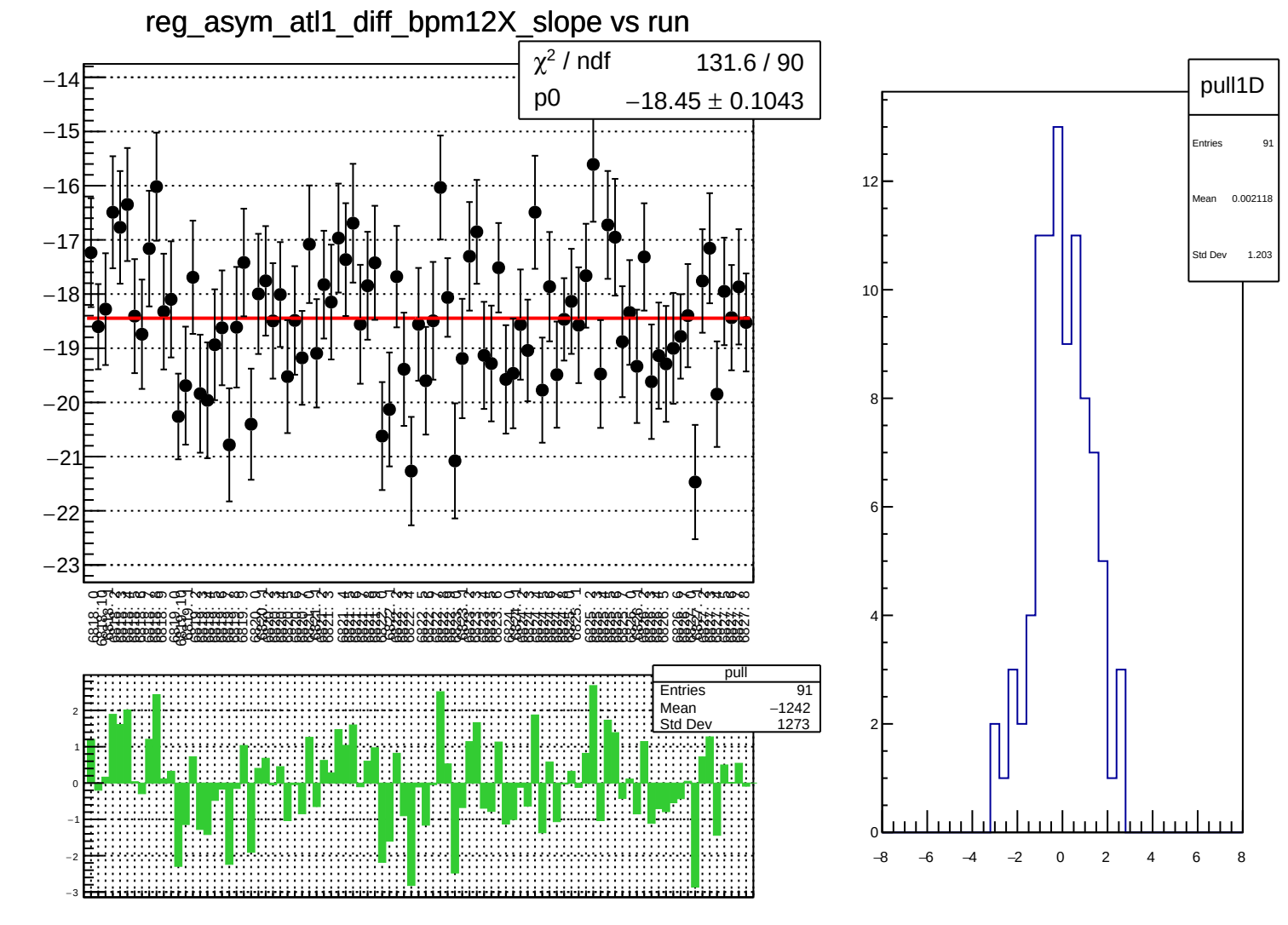

pull1D
Entries 91
Mean −0.01168
Std Dev 0.8641

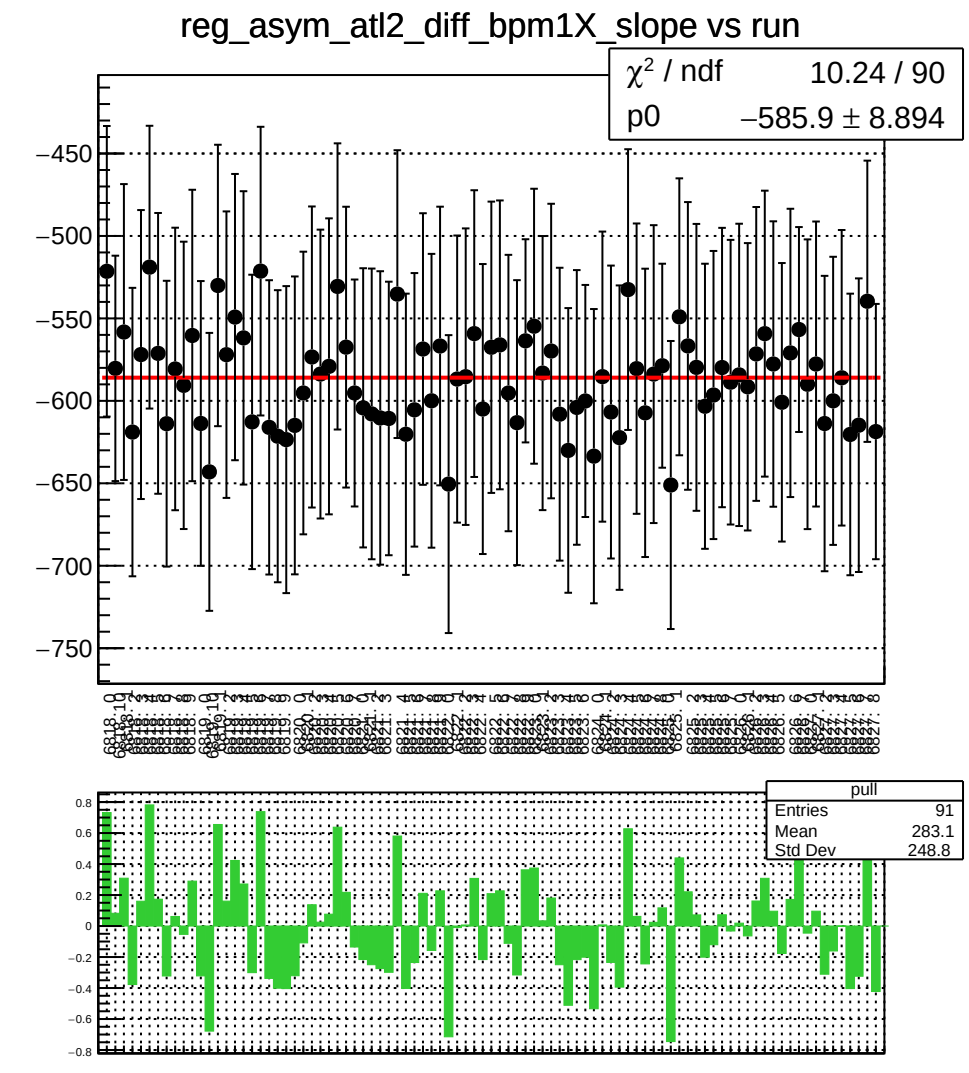

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 97.26 / 90
p0 69.7 ± 2.494
pull
Entries 91
Mean −367.5
Std Dev 424.1

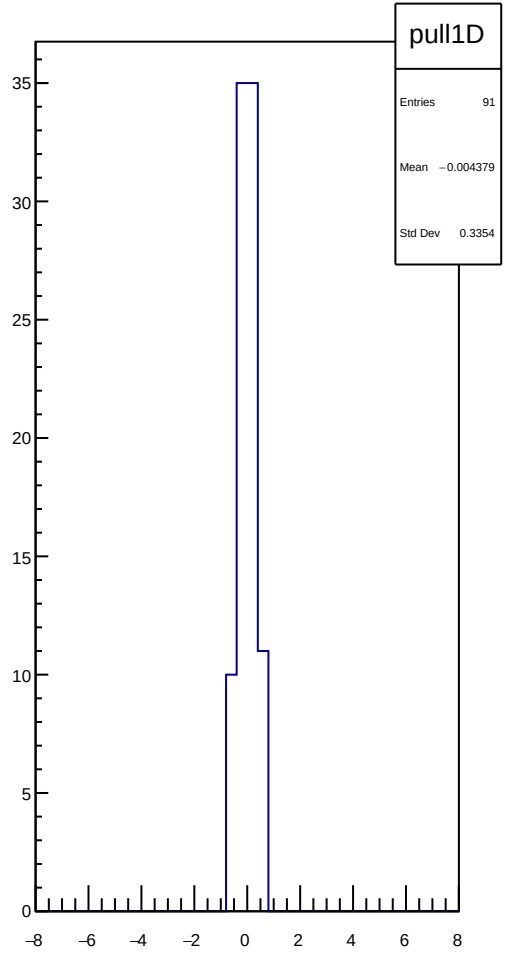

pull1D
Entries 91
Mean −0.004092
Std Dev 1.034

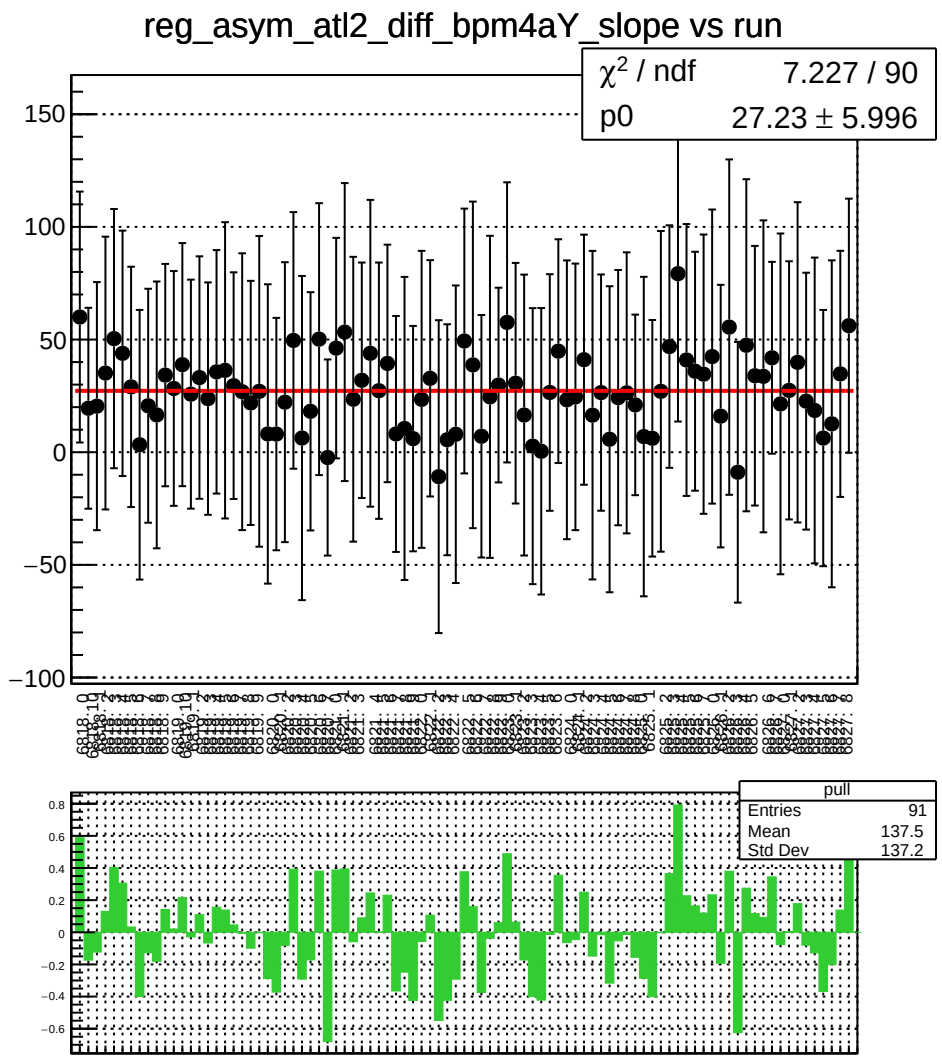

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 65.9 / 90
p0 −30.02 ± 2.092
pull
Entries 91
Mean −215.6
Std Dev 235.5

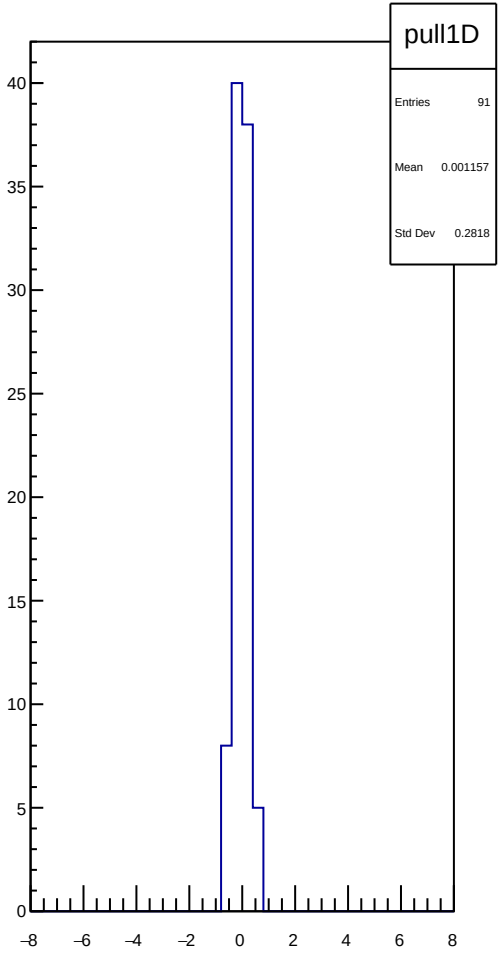

pull1D
Entries 91
Mean 0.007
Std Dev 0.851

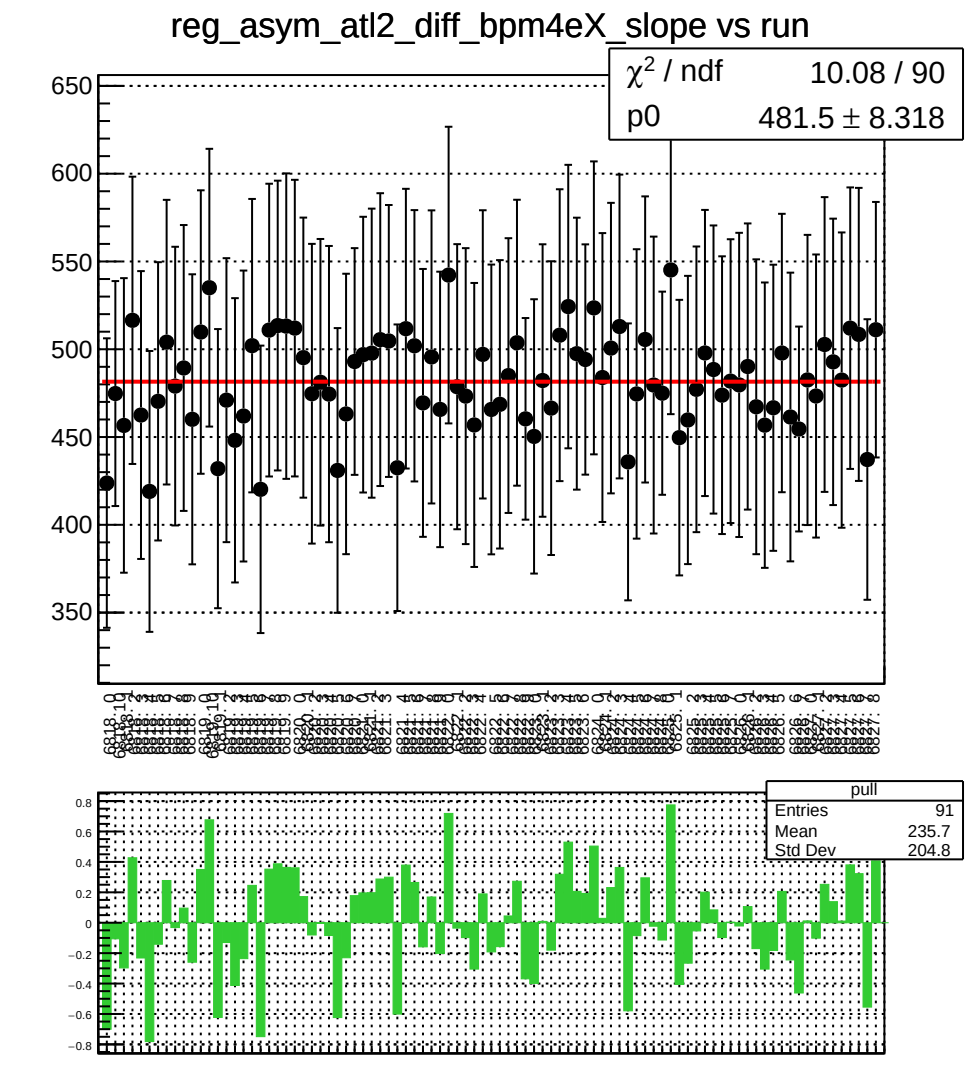

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 131.6 / 90
p0 −18.45 ± 0.1043
pull
Entries 91
Mean −1242
Std Dev 1273
pull1D
Entries 91
Mean 0.002118
Std Dev 1.203

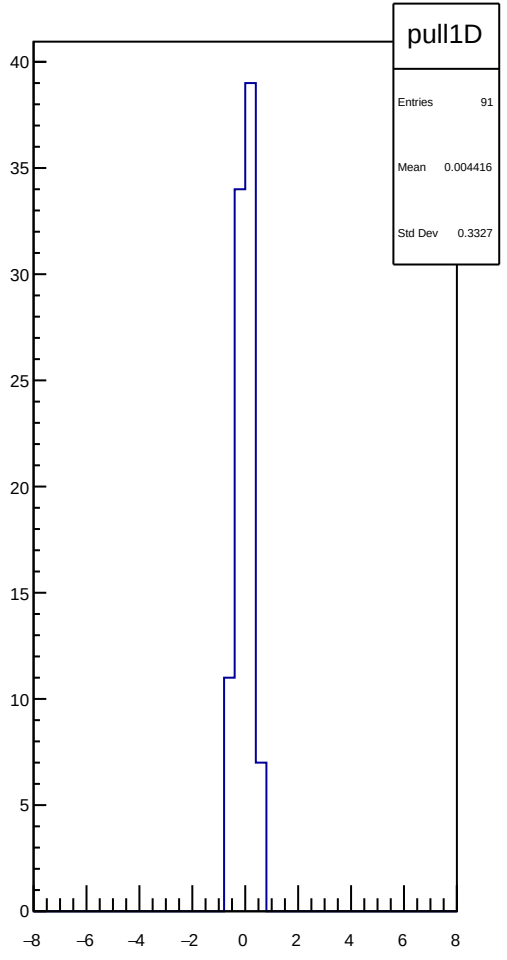

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 10.24 / 90
p0 −585.9 ± 8.894
−450
−500
−550
−600
−650
−700
−750
pull
Entries 91
Mean 283.1
Std Dev 248.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

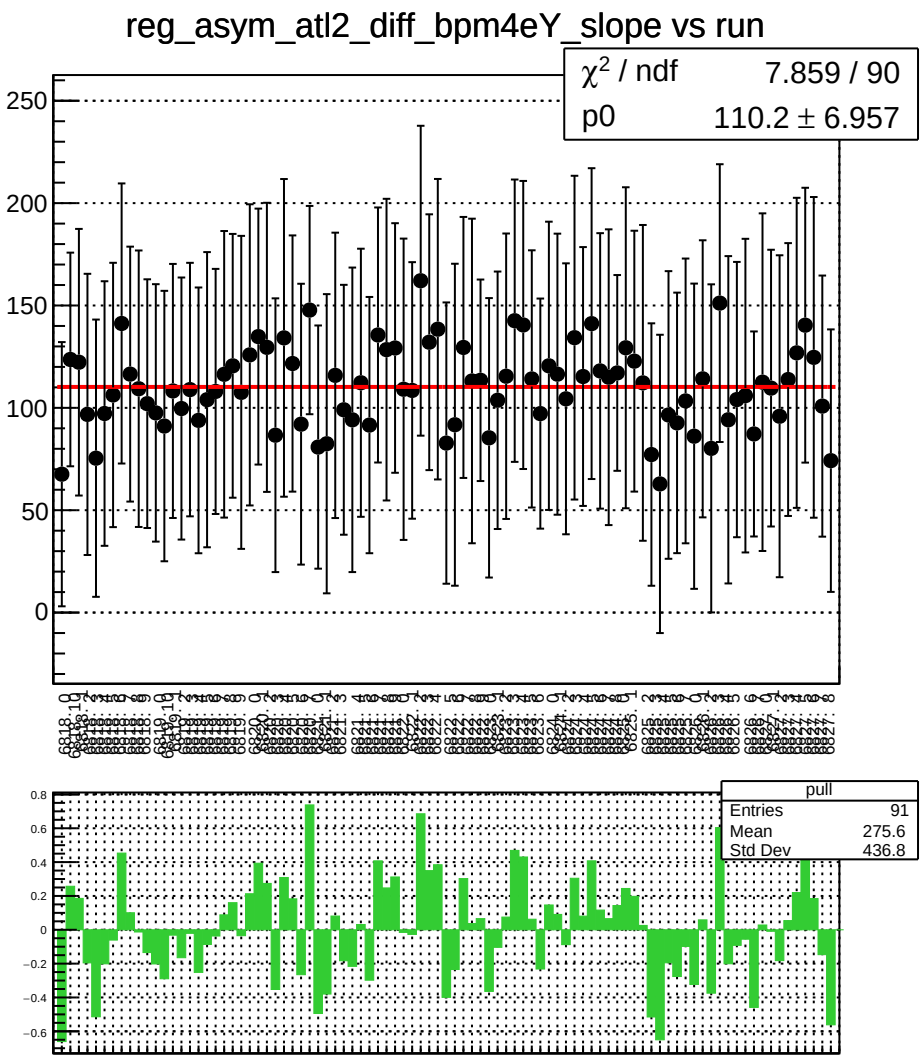

pull1D
Entries 91
Mean −0.004379
Std Dev 0.3354
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

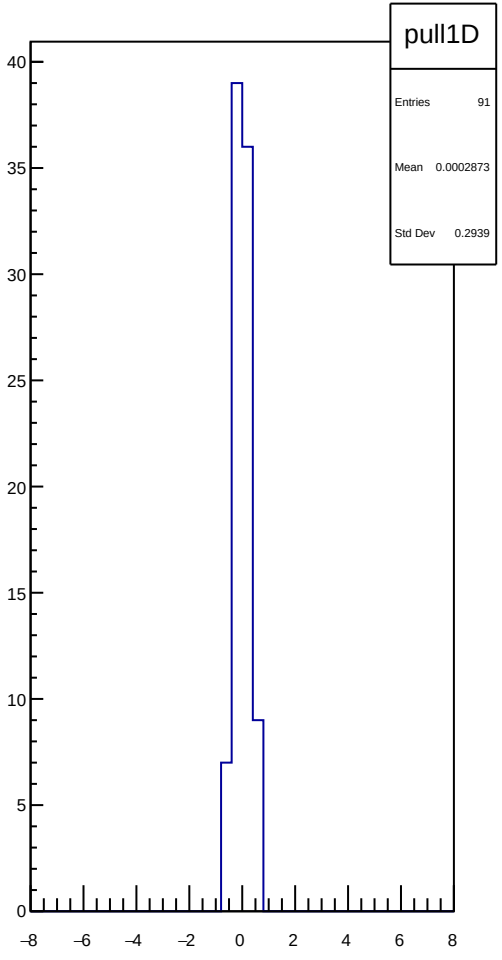

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 7.227 / 90
p0 27.23 ± 5.996
150
100
50
0
−50
−100
pull
Entries 91
Mean 137.5
Std Dev 137.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

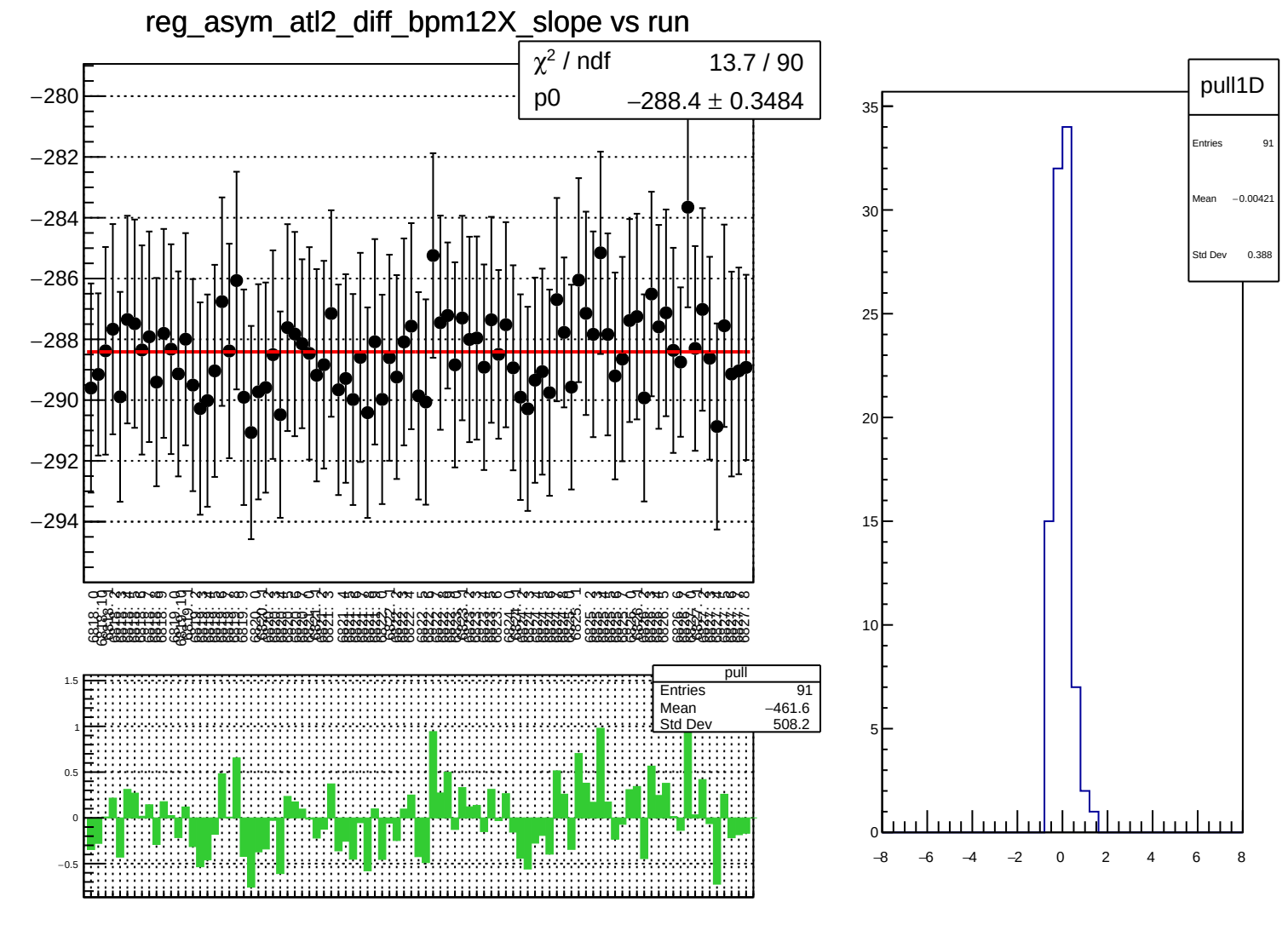

pull1D
Entries 91
Mean 0.001157
Std Dev 0.2818
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

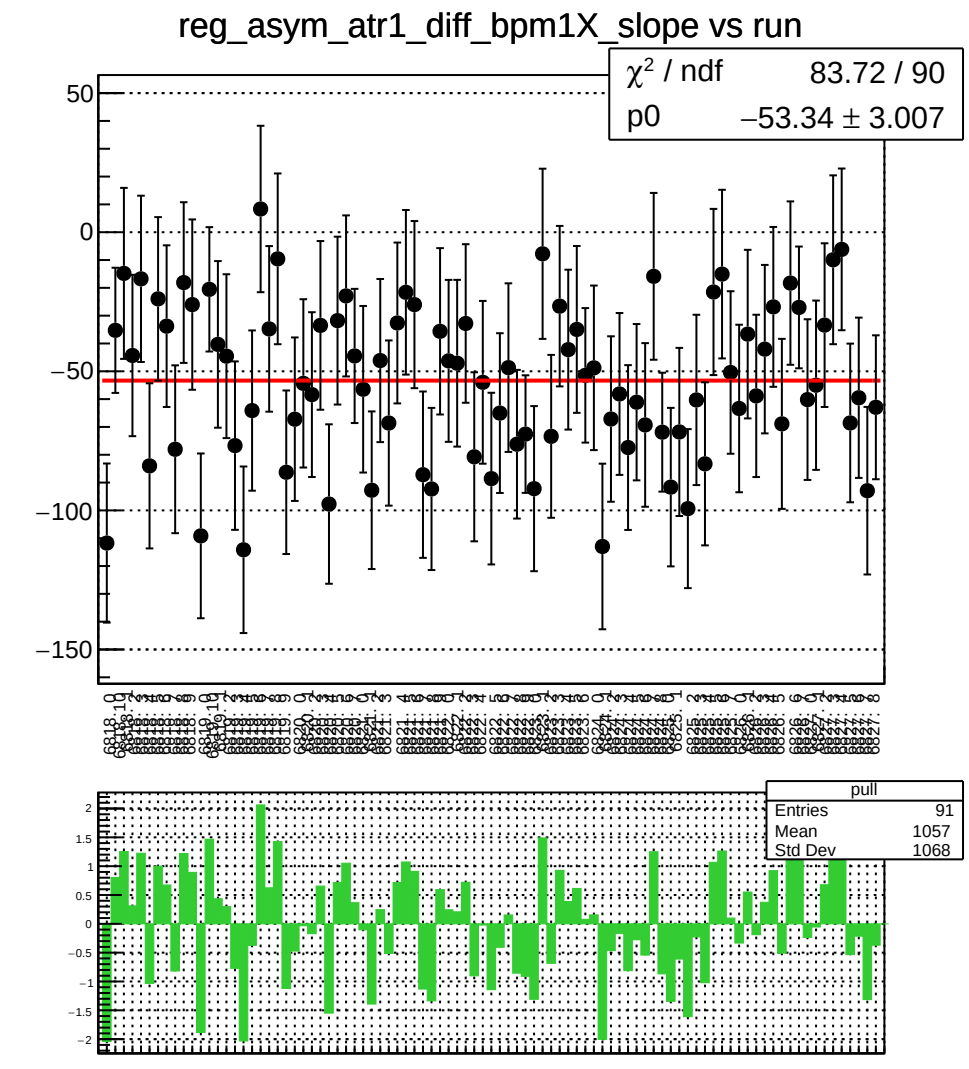

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 10.08 / 90
p0 481.5 ± 8.318
650
600
550
500
450
400
350
pull
Entries 91
Mean 235.7
Std Dev 204.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

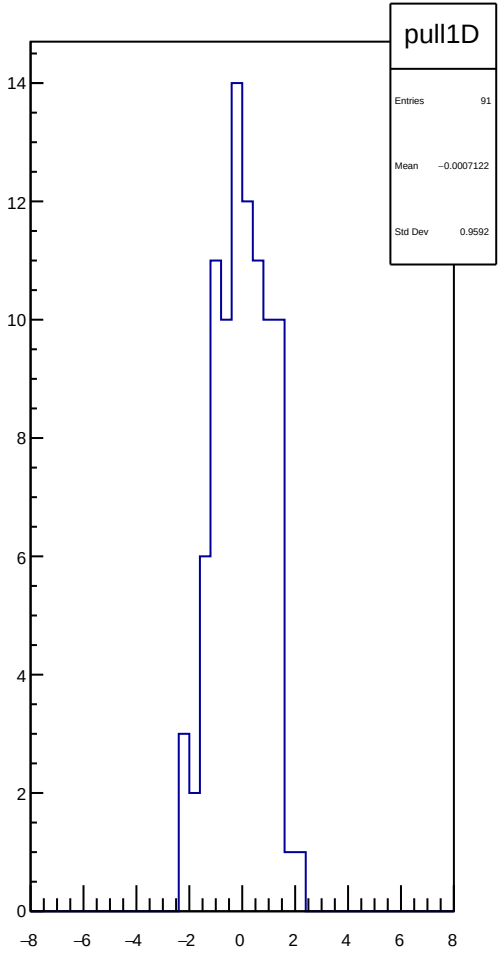

pull1D
Entries 91
Mean 0.004416
Std Dev 0.3327
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

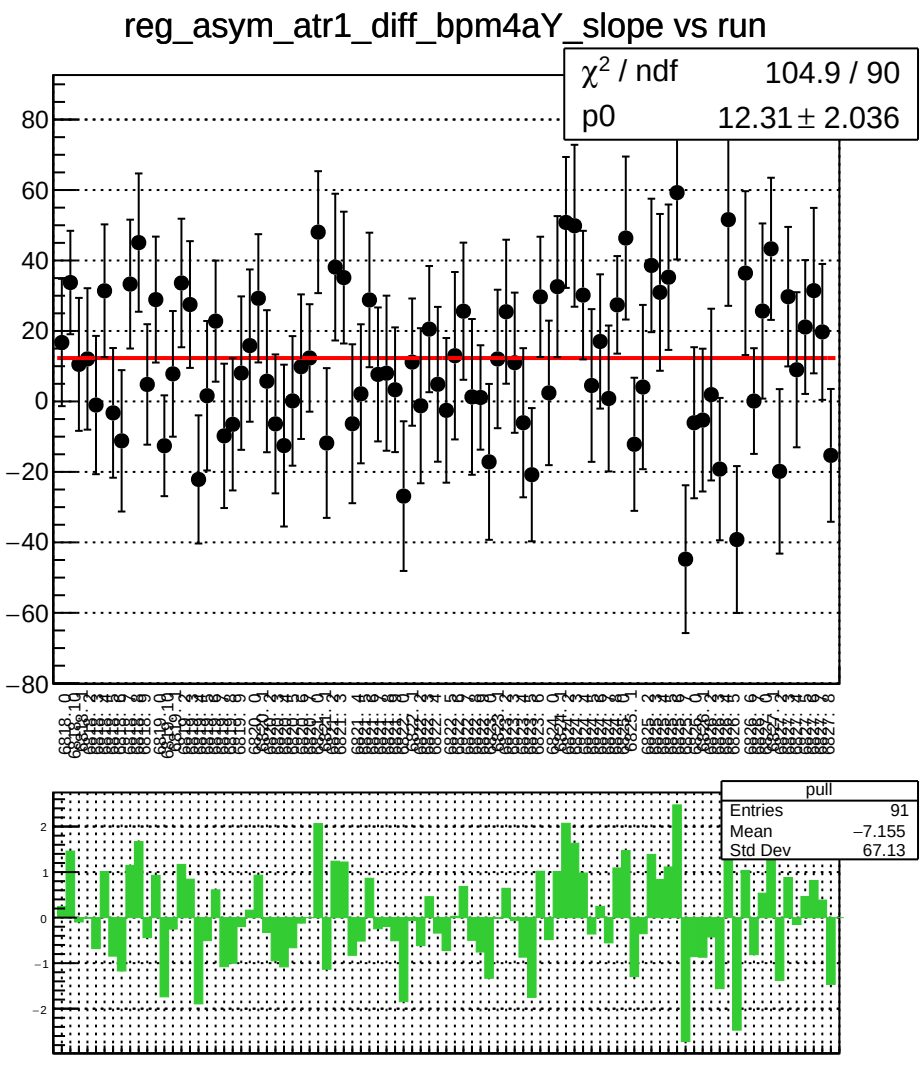

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 7.859 / 90
p0 110.2 ± 6.957
pull
Entries 91
Mean 275.6
Std Dev 436.8

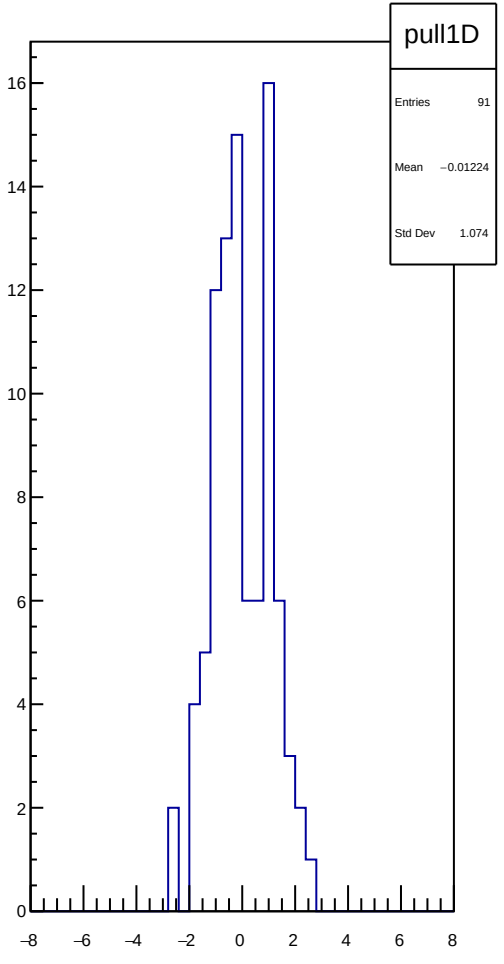

pull1D
Entries 91
Mean 0.0002873
Std Dev 0.2939

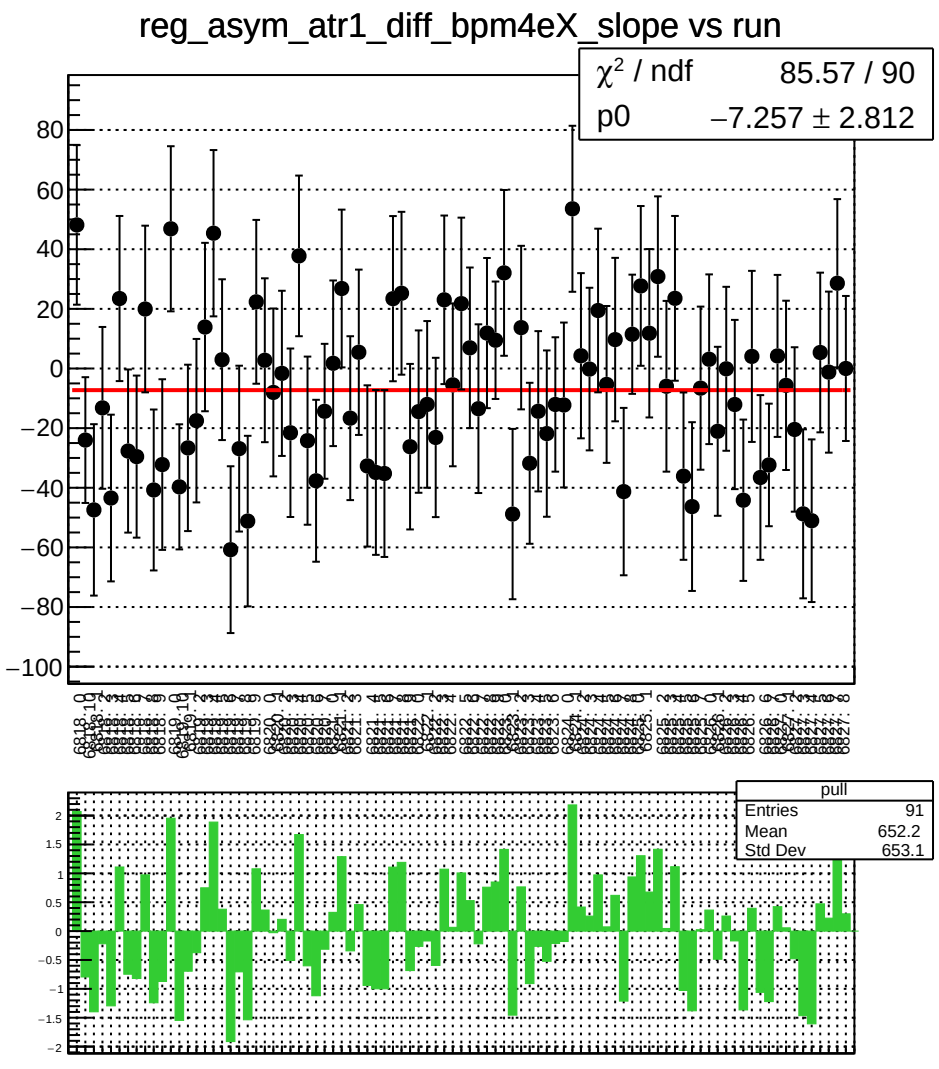

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 13.7 / 90
p0 −288.4 ± 0.3484
pull
Entries 91
Mean −461.6
Std Dev 508.2
pull1D
Entries 91
Mean −0.00421
Std Dev 0.388

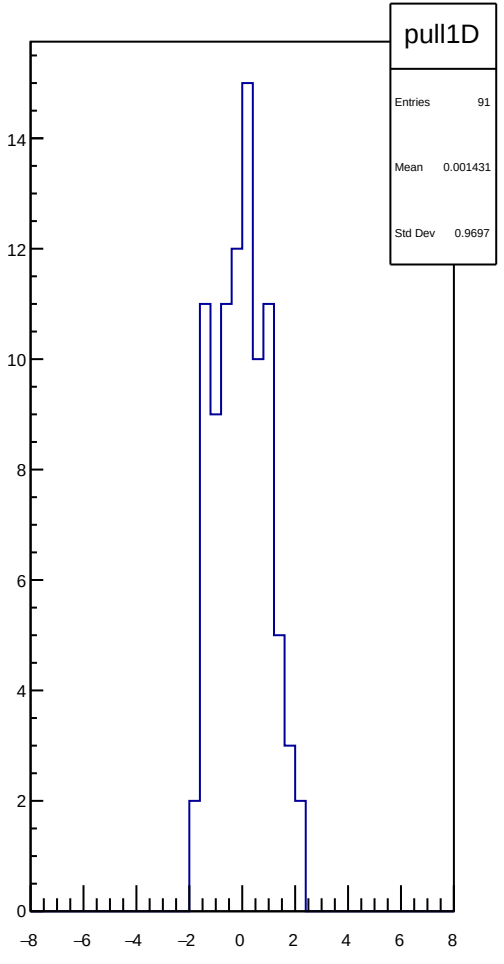

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 83.72 / 90
p0 −53.34 ± 3.007
pull
Entries 91
Mean 1057
Std Dev 1068

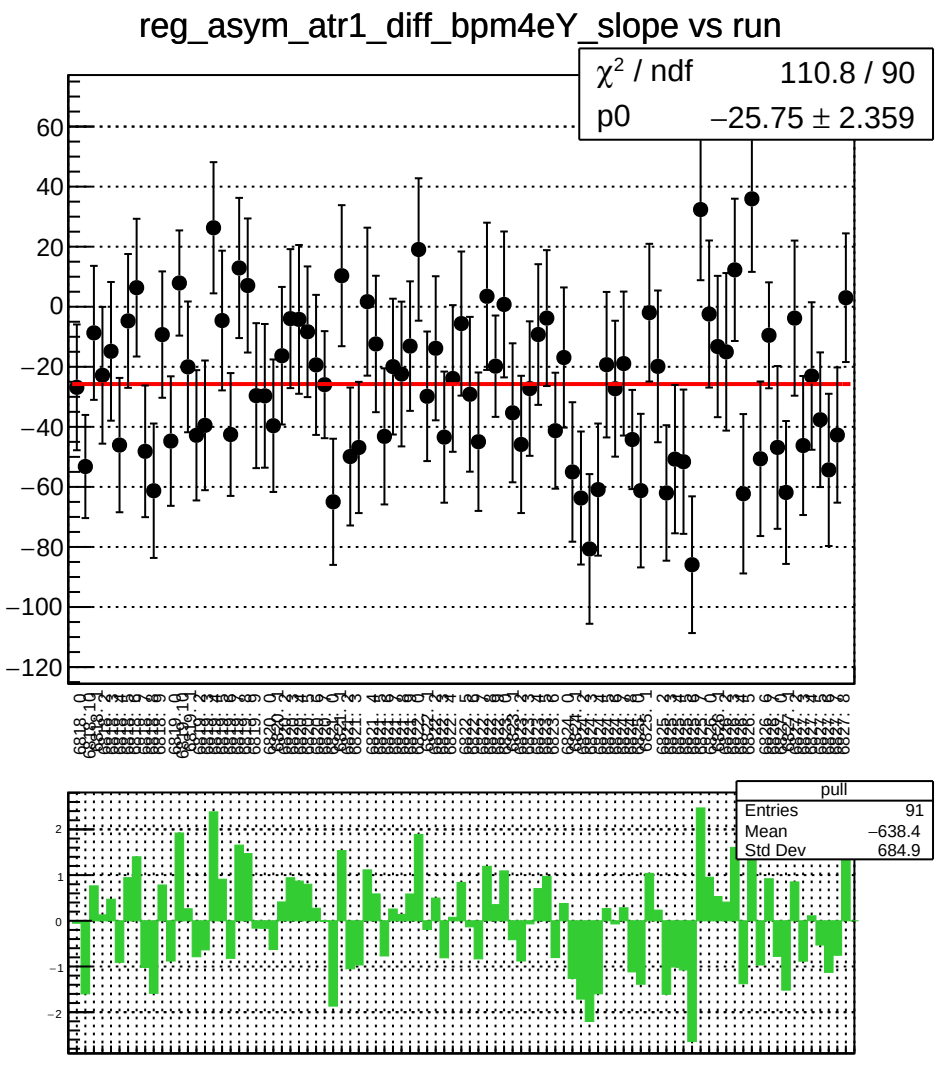

pull1D
Entries 91
Mean −0.0007122
Std Dev 0.9592

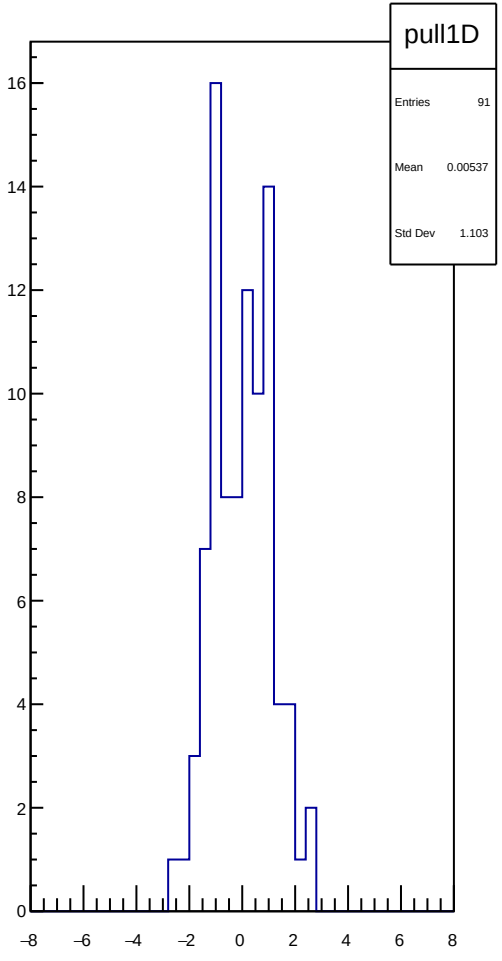

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 104.9 / 90
p0 12.31 ± 2.036
pull
Entries 91
Mean −7.155
Std Dev 67.13

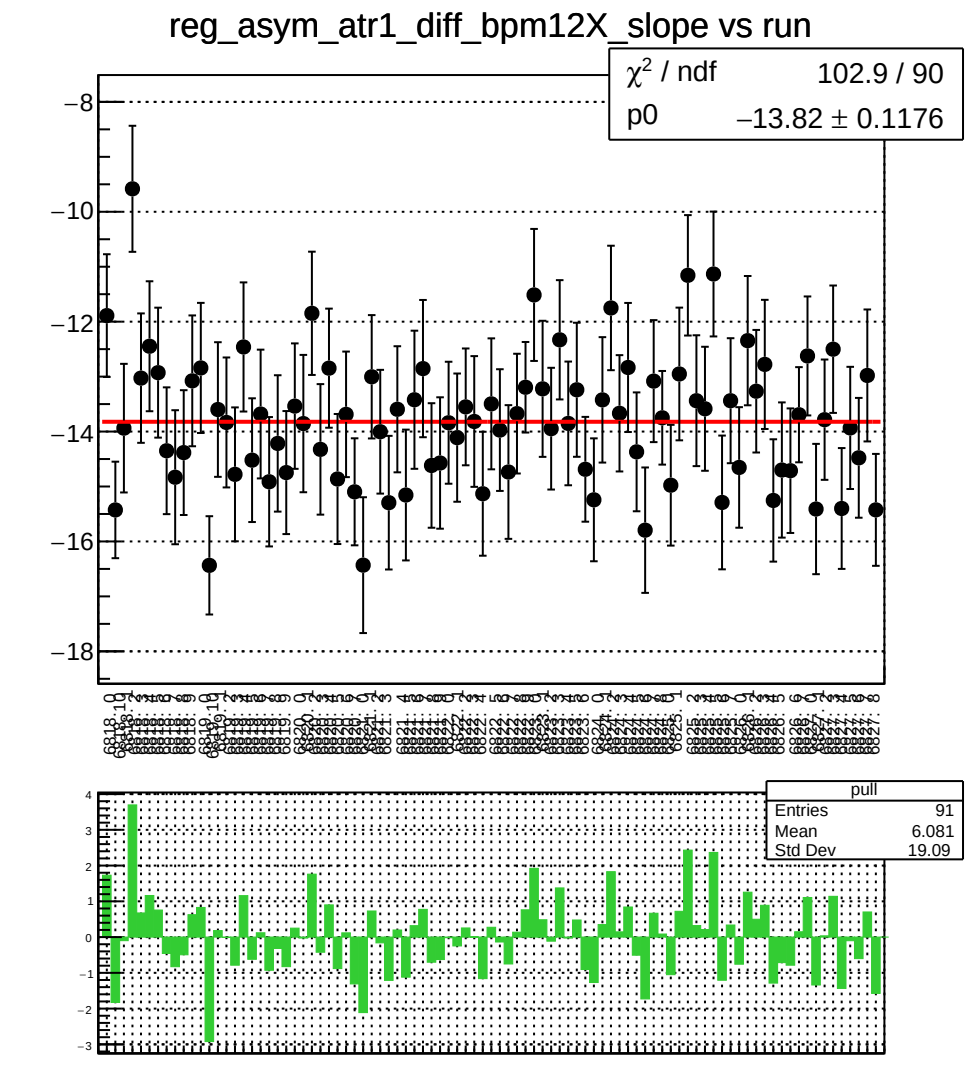

pull1D
Entries 91
Mean −0.01224
Std Dev 1.074

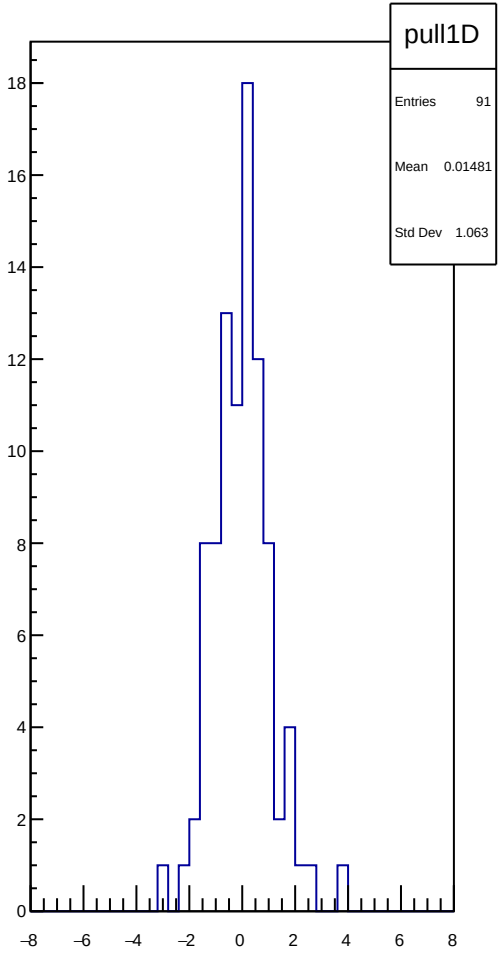

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 85.57 / 90
p0 −7.257 ± 2.812
pull
Entries 91
Mean 652.2
Std Dev 653.1

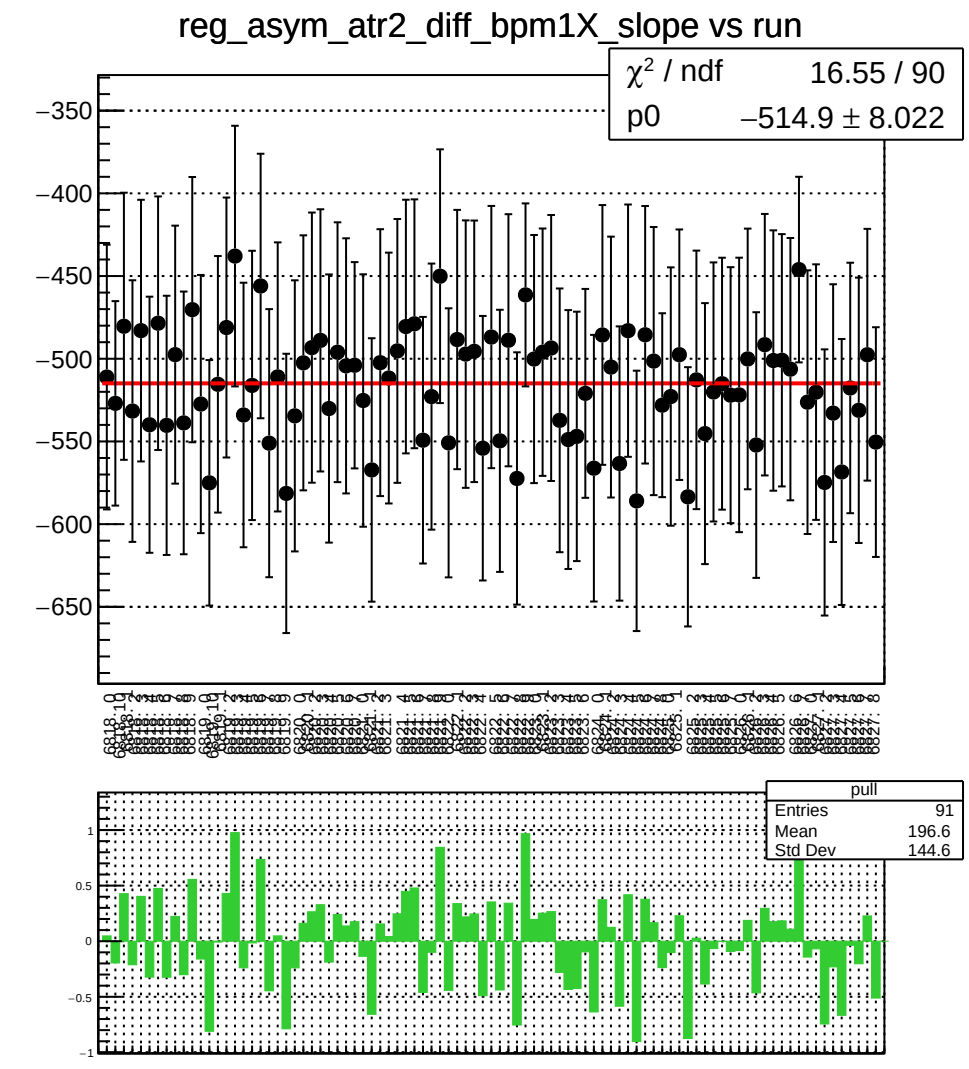

pull1D
Entries 91
Mean 0.001431
Std Dev 0.9697

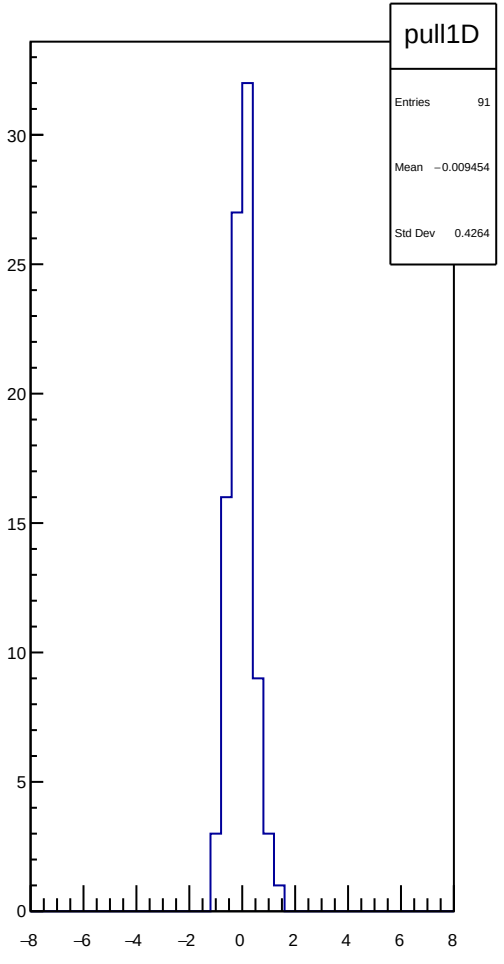

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 110.8 / 90
p0 −25.75 ± 2.359
pull
Entries 91
Mean −638.4
Std Dev 684.9

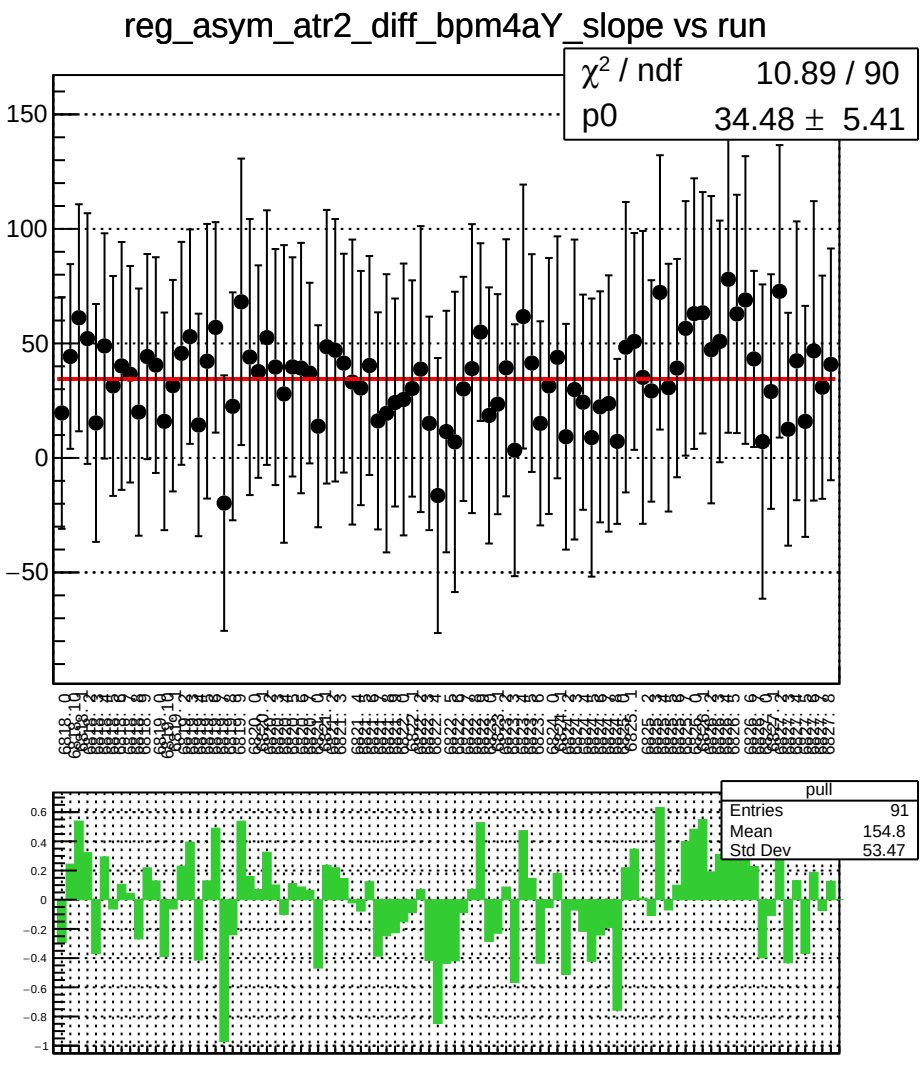

pull1D
Entries 91
Mean 0.00537
Std Dev 1.103

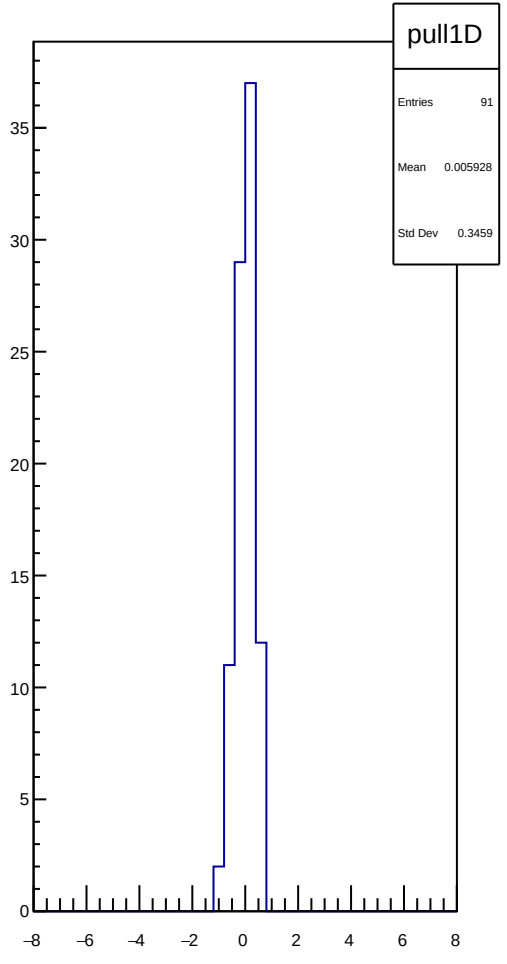

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 102.9 / 90
p0 −13.82 ± 0.1176
pull
Entries 91
Mean 6.081
Std Dev 19.09

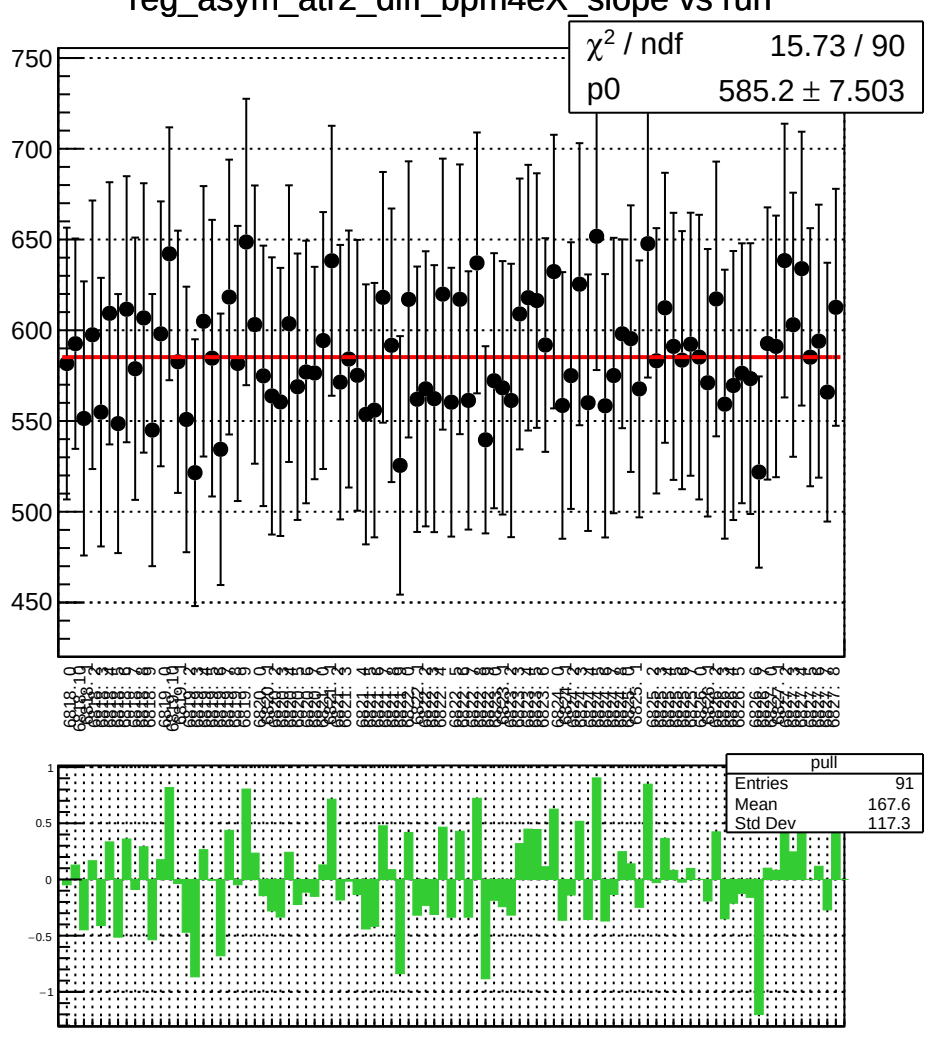

pull1D
Entries 91
Mean 0.01481
Std Dev 1.063

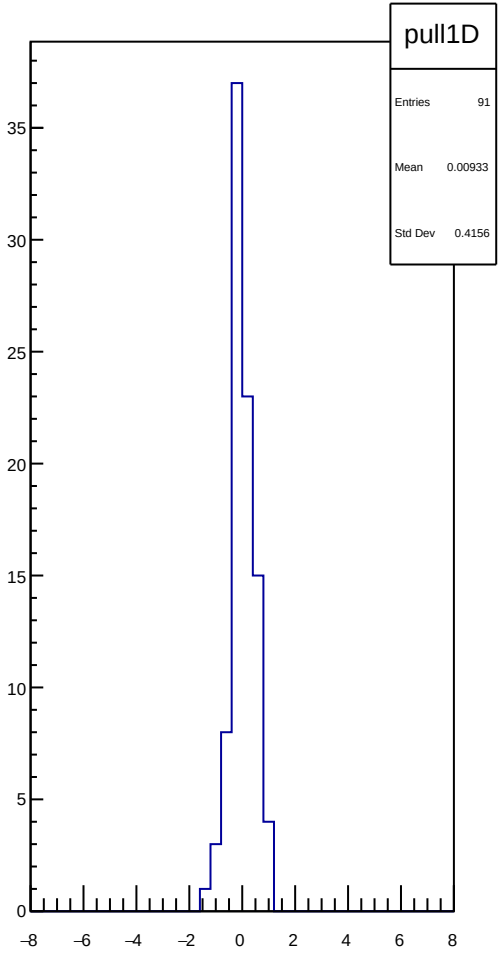

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 16.55 / 90
p0 −514.9 ± 8.022
−350
−400
−450
−500
−550
−600
−650
pull
Entries 91
Mean 196.6
Std Dev 144.6
1
0.5
0
−0.5
−1

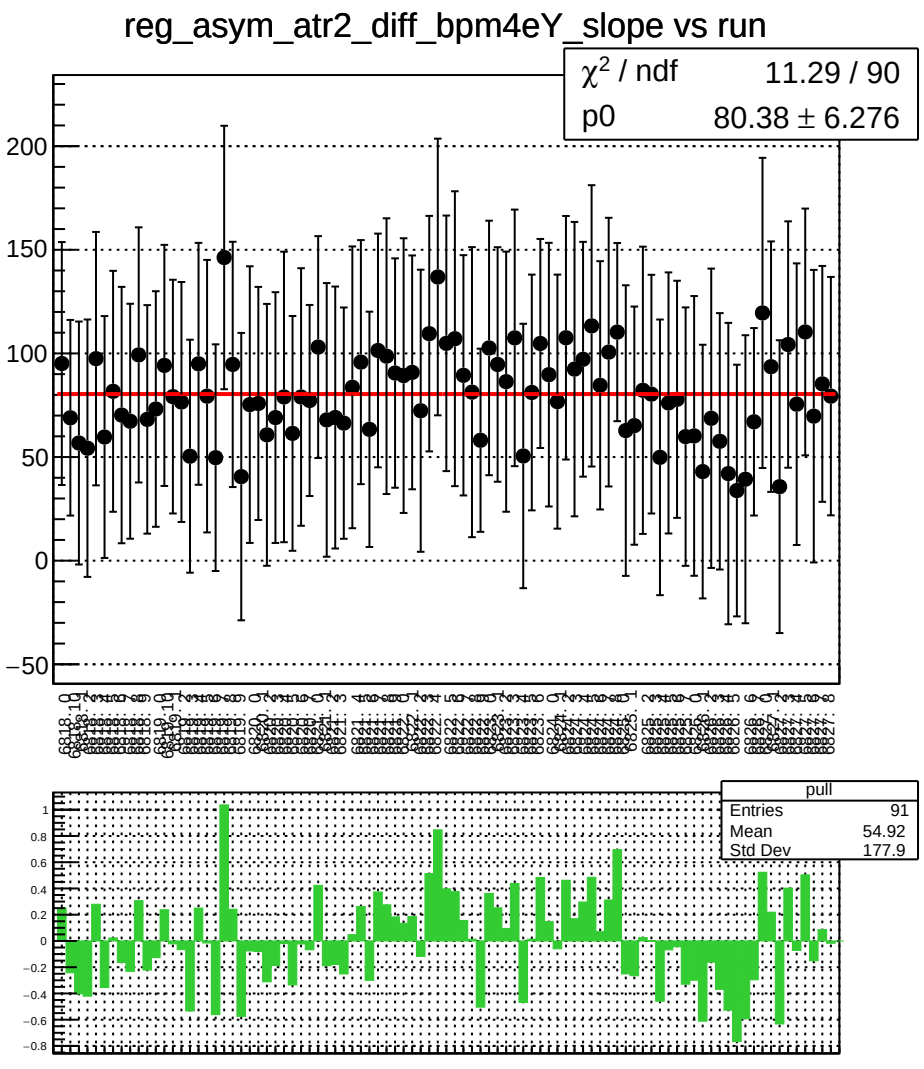

pull1D
Entries 91
Mean −0.009454
Std Dev 0.4264
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

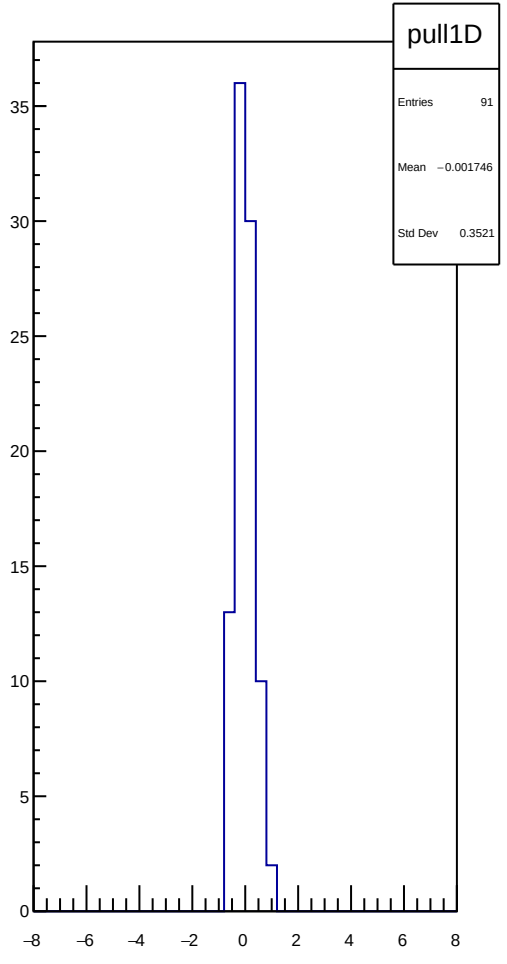

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 10.89 / 90
p0 34.48 ± 5.41
150
100
50
0
−50
pull
Entries 91
Mean 154.8
Std Dev 53.47
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

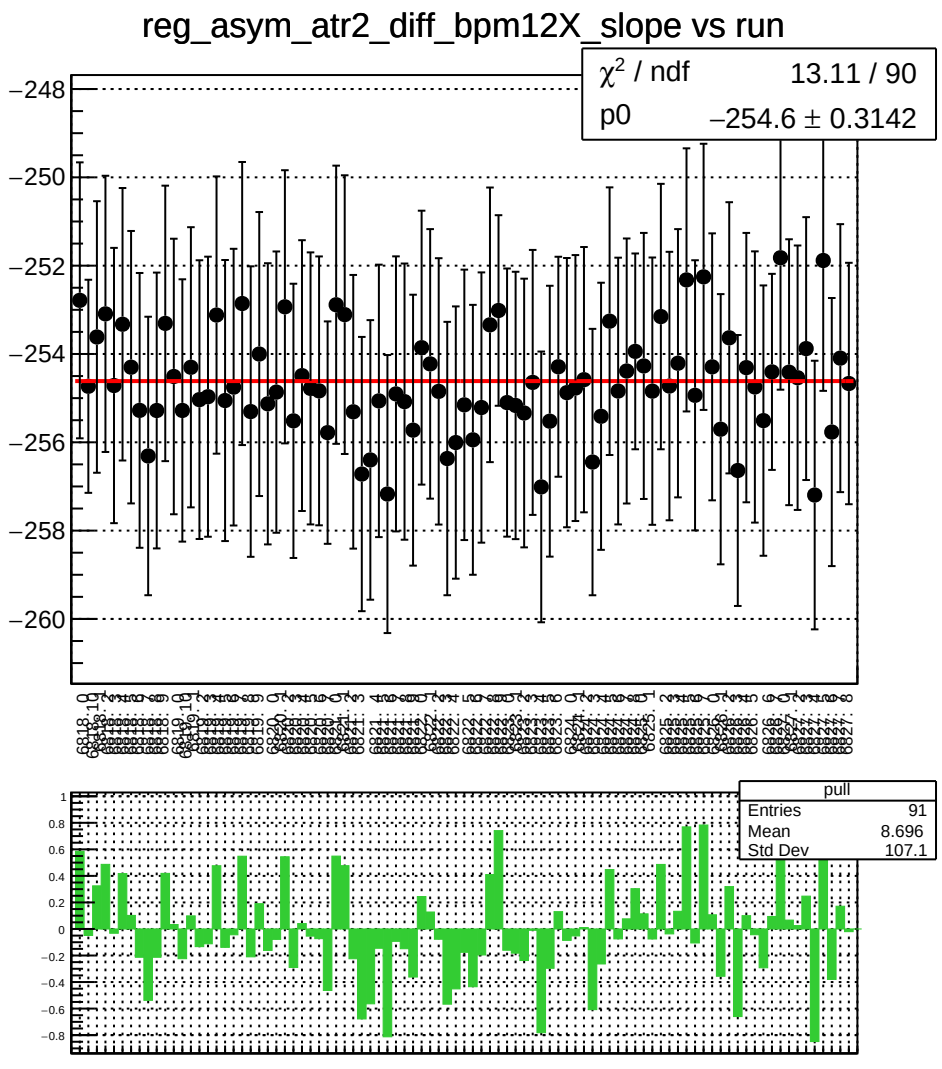

pull1D
Entries 91
Mean 0.005928
Std Dev 0.3459
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

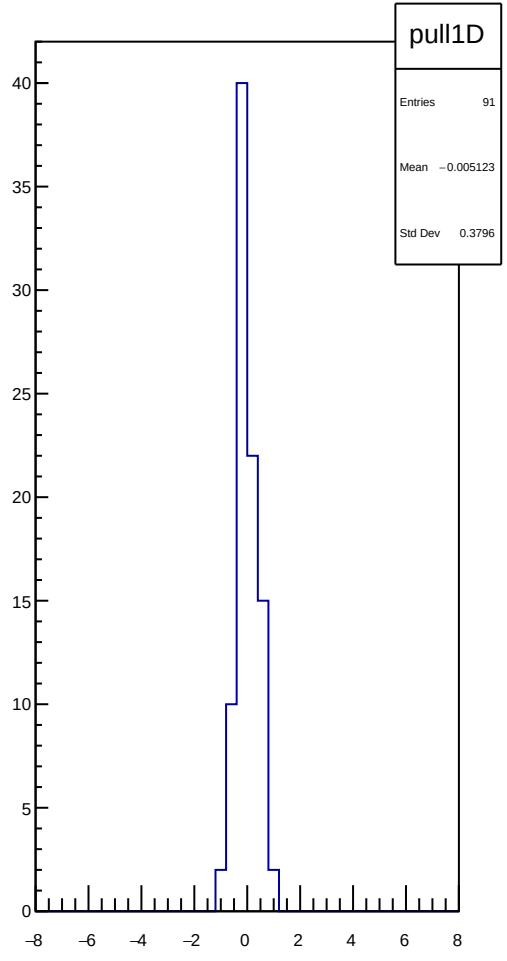

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 15.73 / 90
p0 585.2 ± 7.503
750
700
650
600
550
500
450
pull
Entries 91
Mean 167.6
Std Dev 117.3
1
0.5
0
−0.5
−1

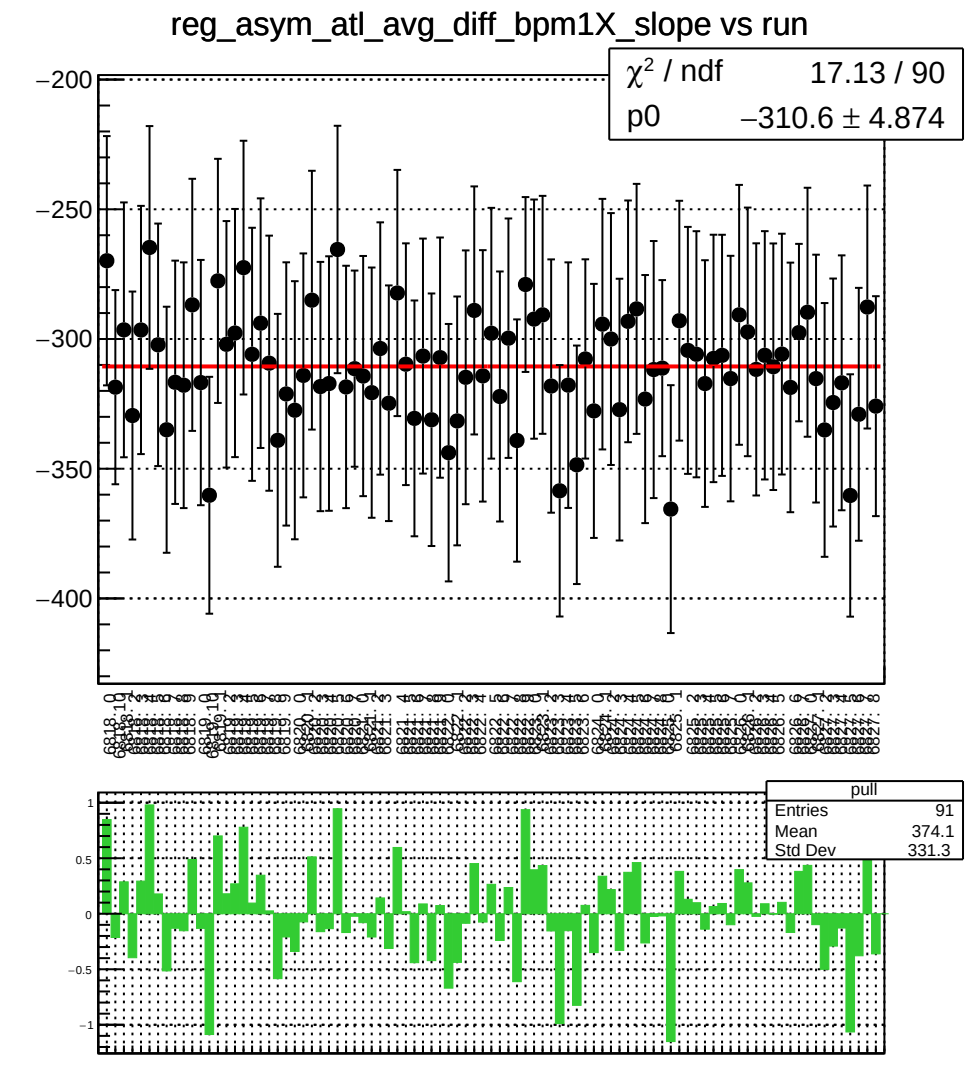

pull1D
Entries 91
Mean 0.00933
Std Dev 0.4156
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

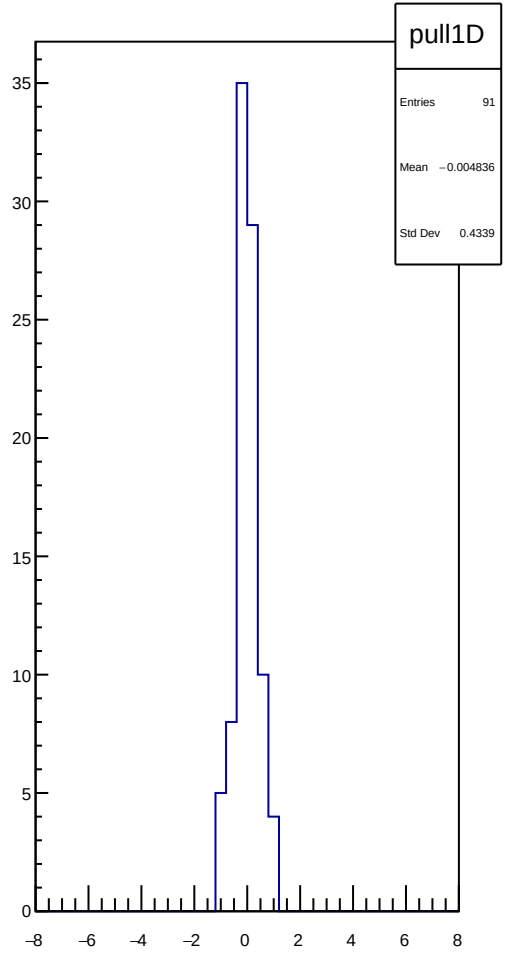

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 11.29 / 90
p0 80.38 ± 6.276
pull
Entries 91
Mean 54.92
Std Dev 177.9

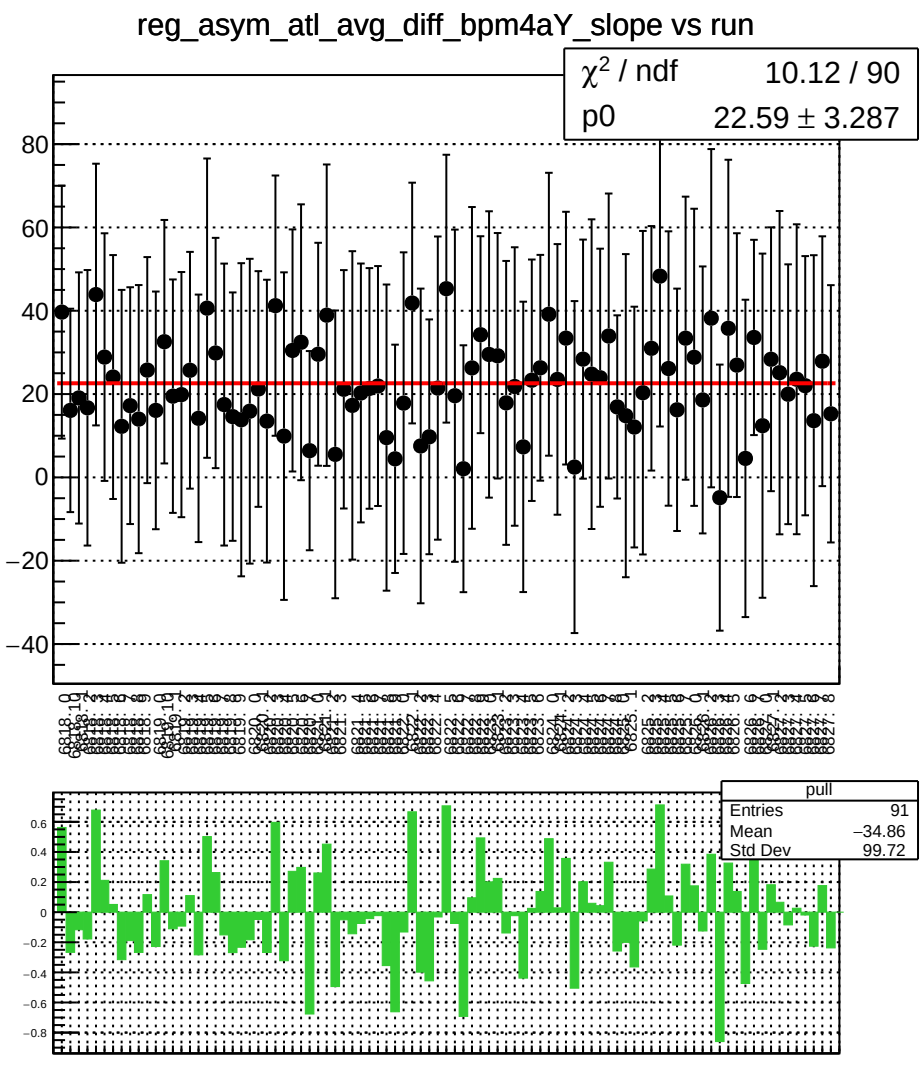

pull1D
Entries 91
Mean −0.001746
Std Dev 0.3521

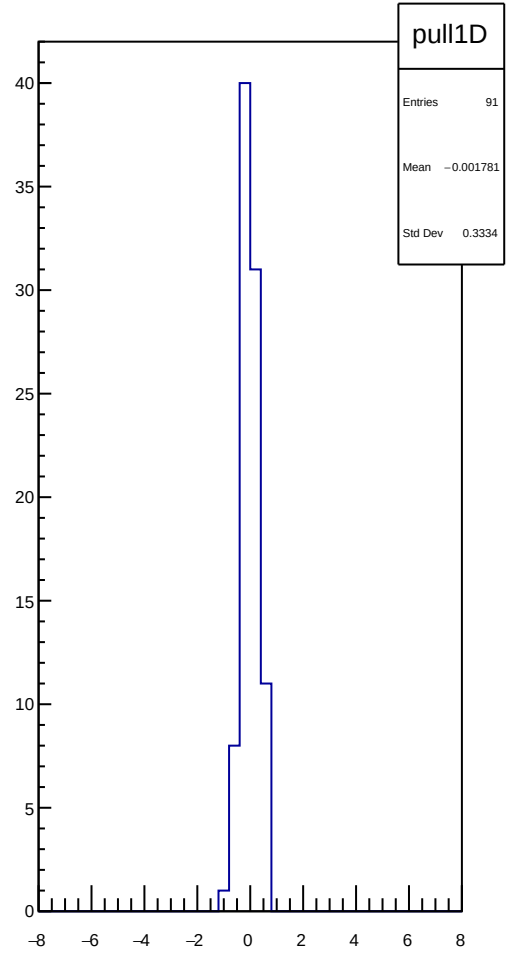

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 13.11 / 90
p0 −254.6 ± 0.3142
pull
Entries 91
Mean 8.696
Std Dev 107.1

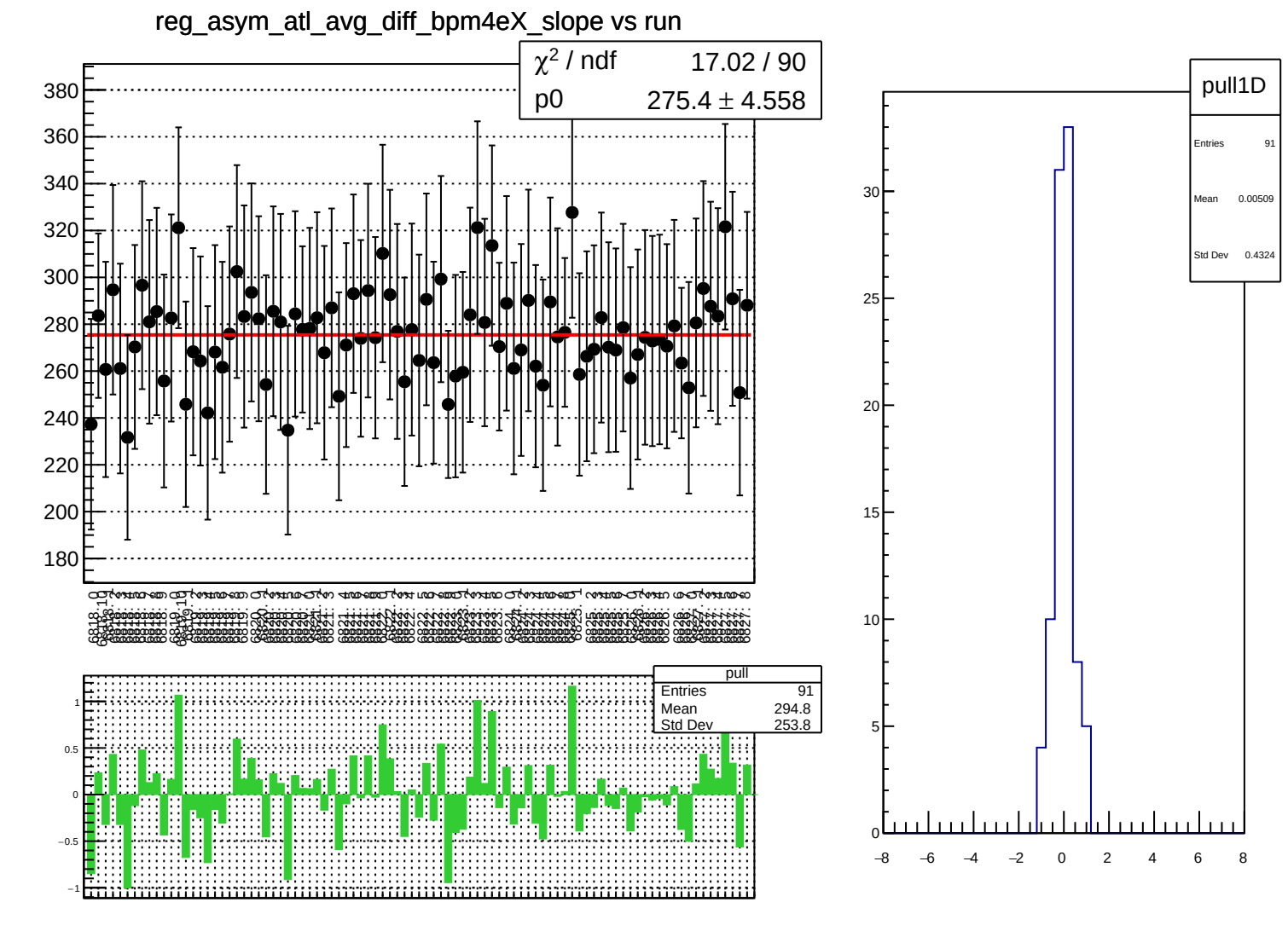

pull1D
Entries 91
Mean −0.005123
Std Dev 0.3796

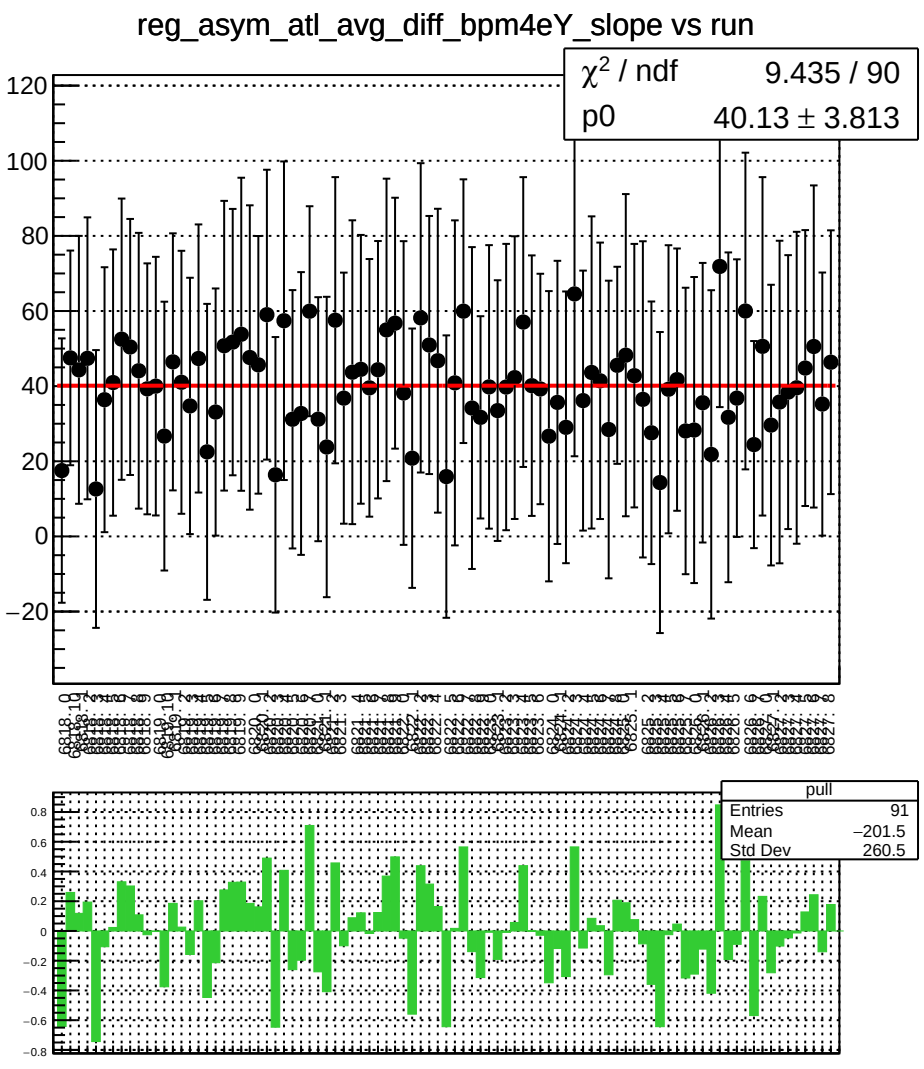

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 17.13 / 90
p0 −310.6 ± 4.874
−200
−250
−300
−350
−400
pull
Entries 91
Mean 374.1
Std Dev 331.3
1
0.5
0
−0.5
−1

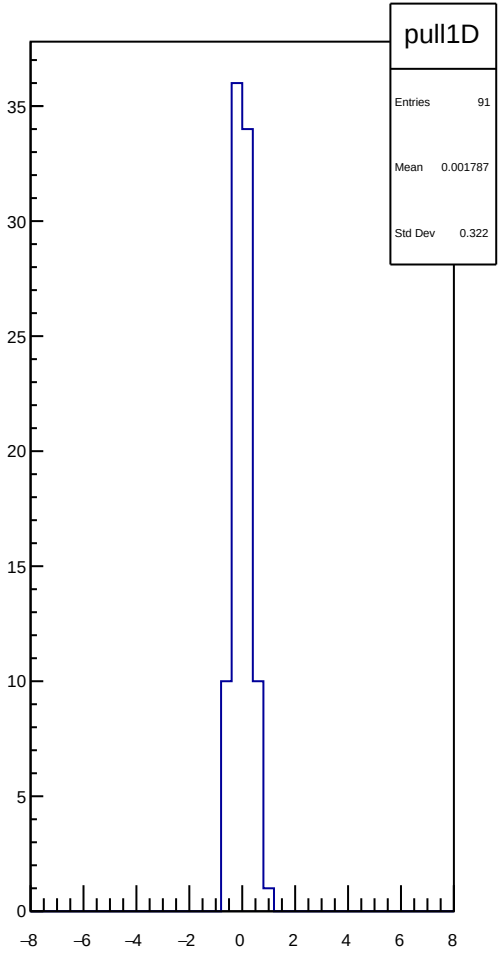

pull1D
Entries 91
Mean −0.004836
Std Dev 0.4339
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

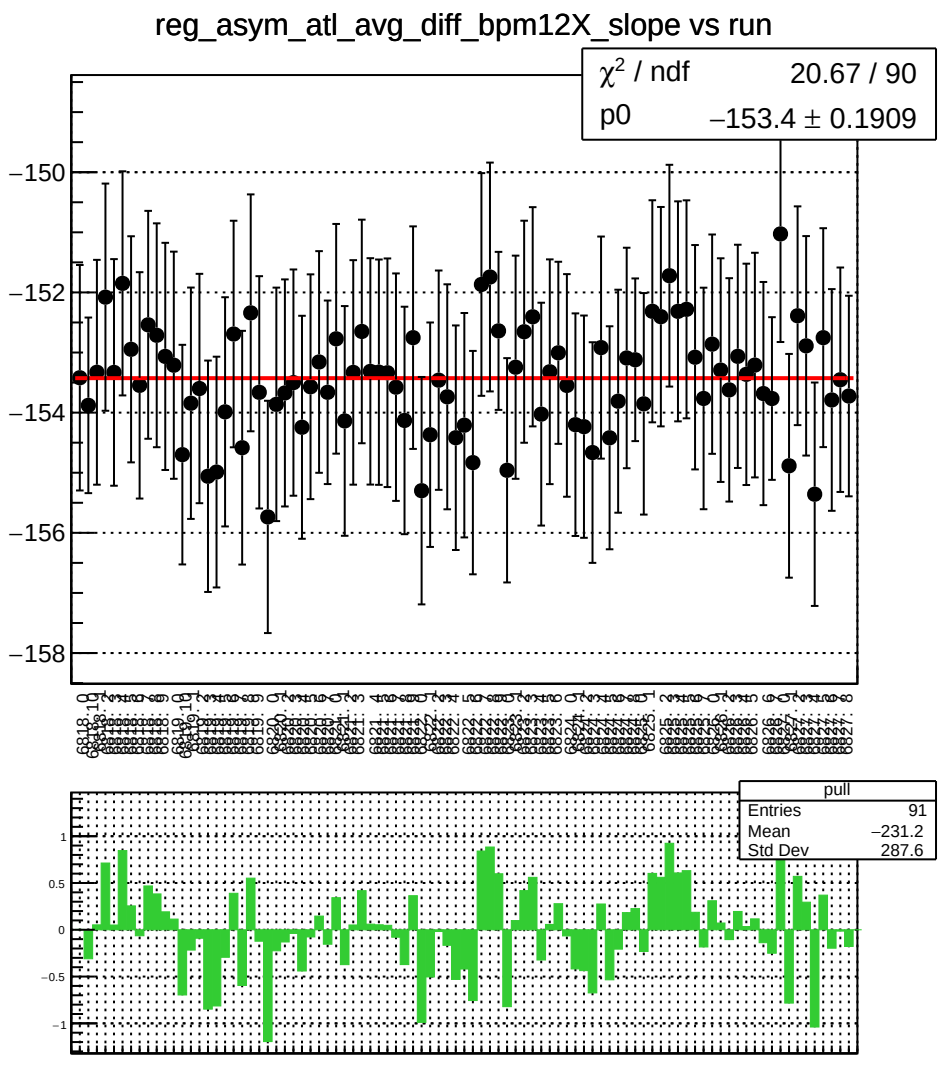

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.12 / 90
p0 22.59 ± 3.287
pull
Entries 91
Mean −34.86
Std Dev 99.72

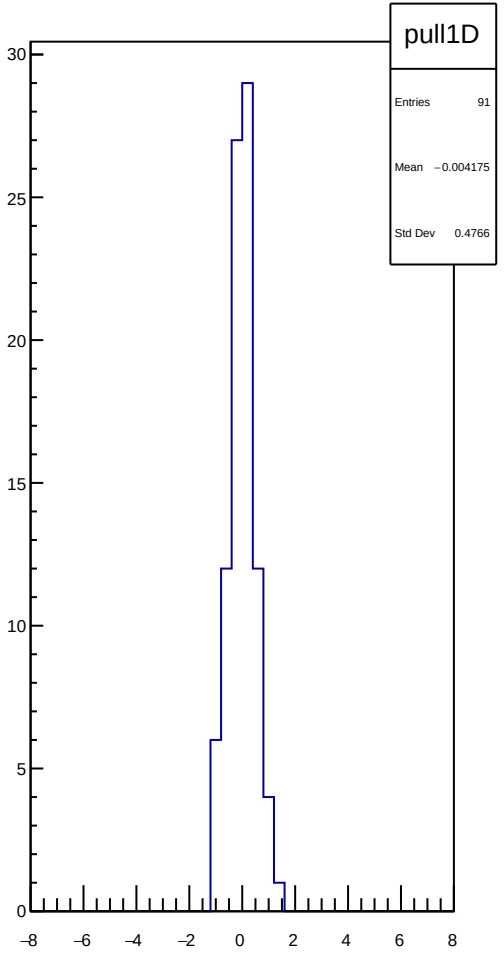

pull1D
Entries 91
Mean −0.001781
Std Dev 0.3334

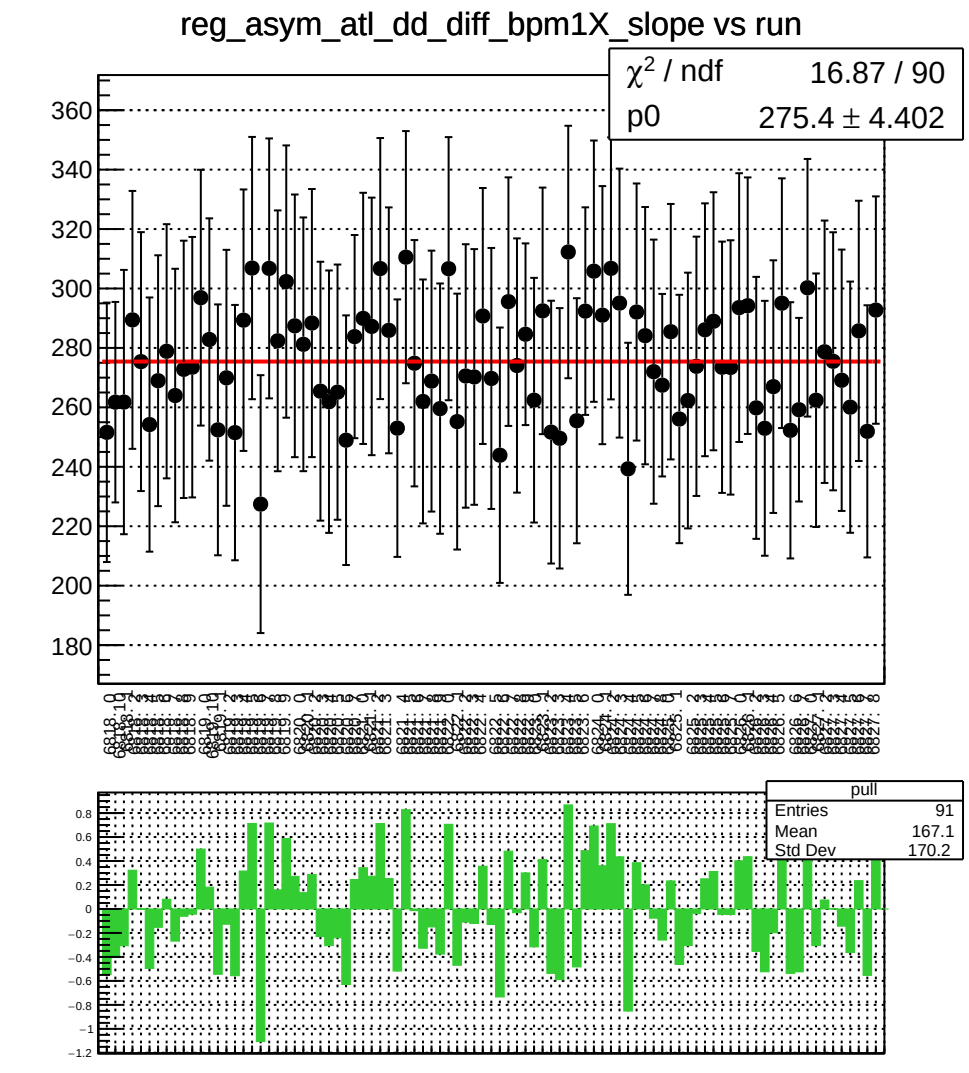

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.02 / 90
p0 275.4 ± 4.558
pull
Entries 91
Mean 294.8
Std Dev 253.8
pull1D
Entries 91
Mean 0.00509
Std Dev 0.4324

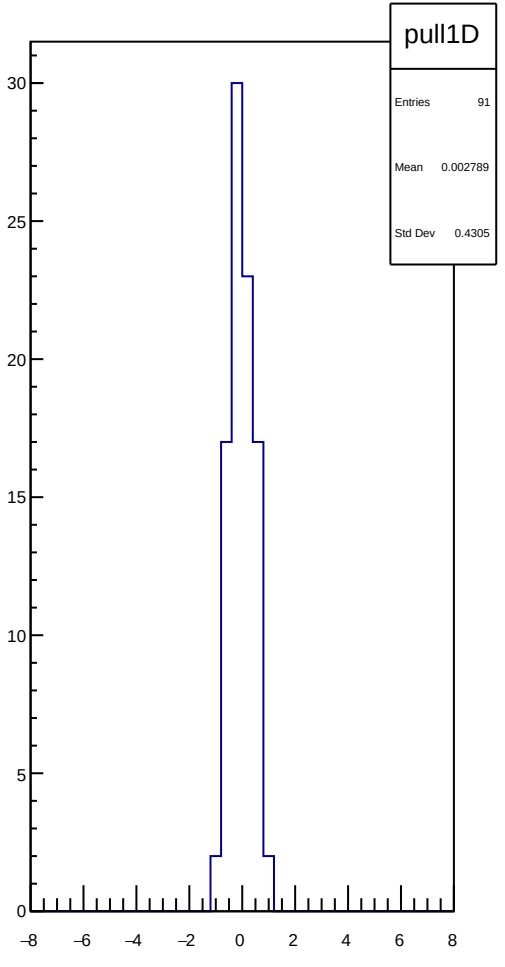

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.435 / 90
p0 40.13 ± 3.813
pull
Entries 91
Mean −201.5
Std Dev 260.5

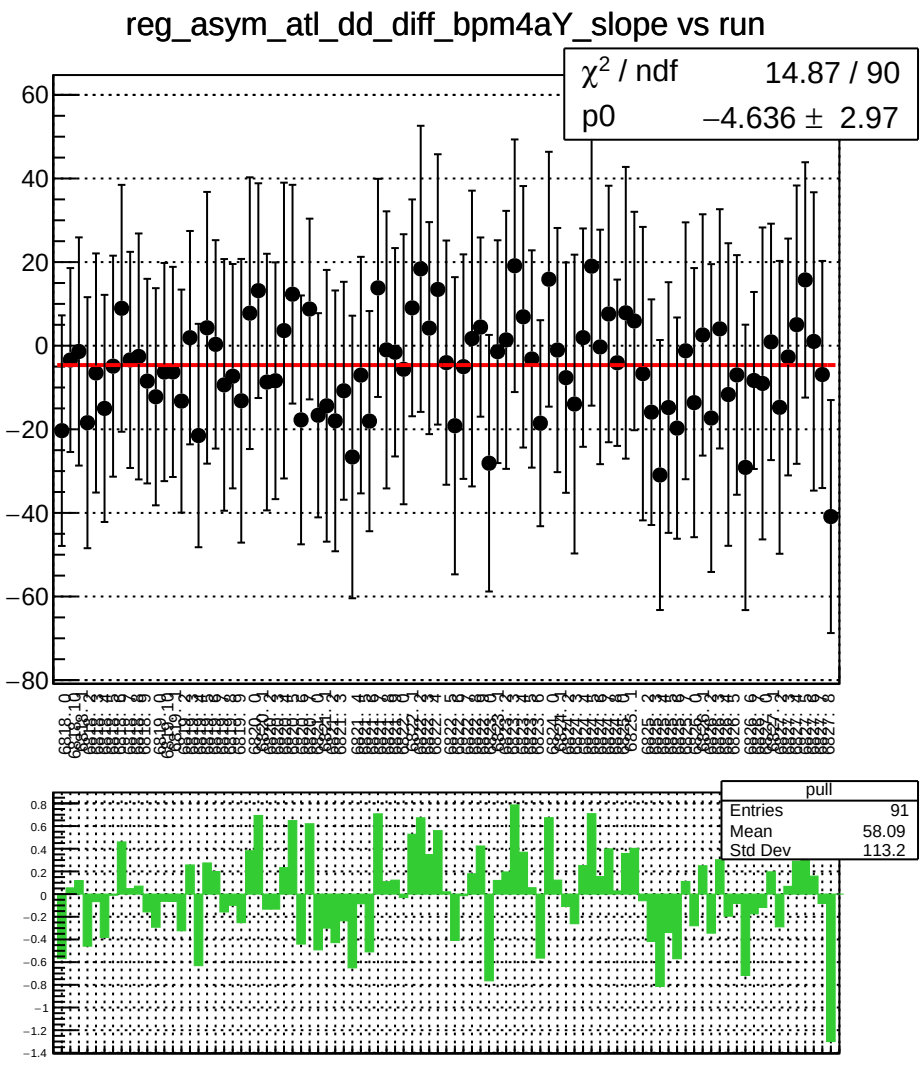

pull1D
Entries 91
Mean 0.001787
Std Dev 0.322

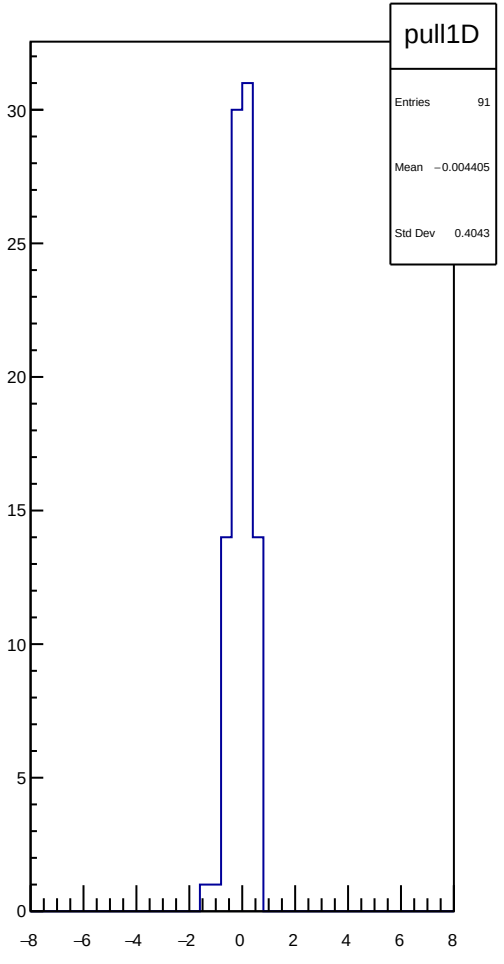

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 20.67 / 90
p0 −153.4 ± 0.1909
−150
−152
−154
−156
−158
pull
Entries 91
Mean −231.2
Std Dev 287.6
1
0.5
0
−0.5
−1

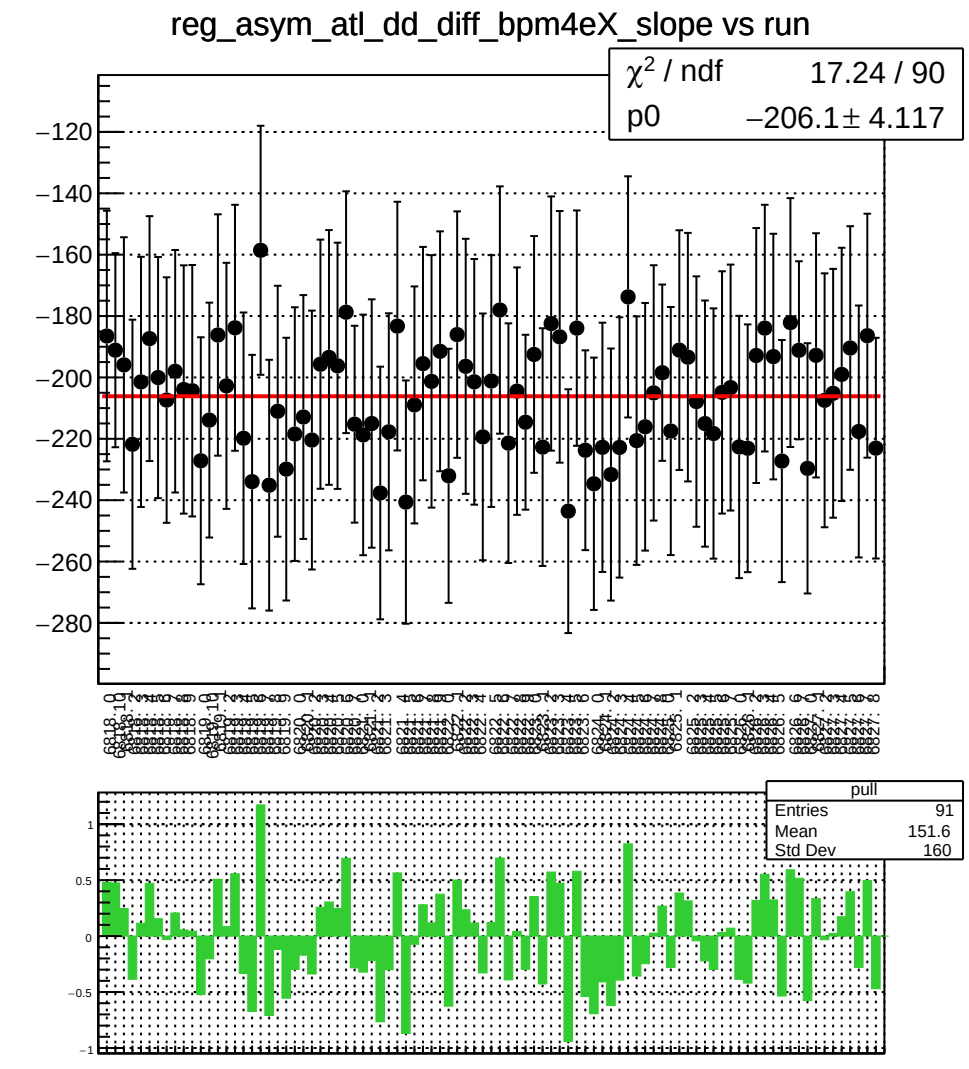

pull1D
Entries 91
Mean −0.004175
Std Dev 0.4766
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

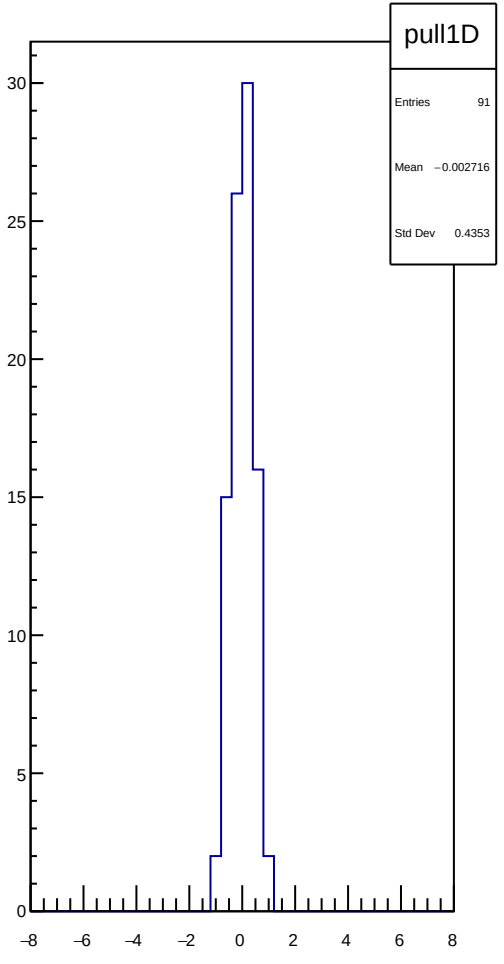

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 16.87 / 90
p0 275.4 ± 4.402
pull
Entries 91
Mean 167.1
Std Dev 170.2

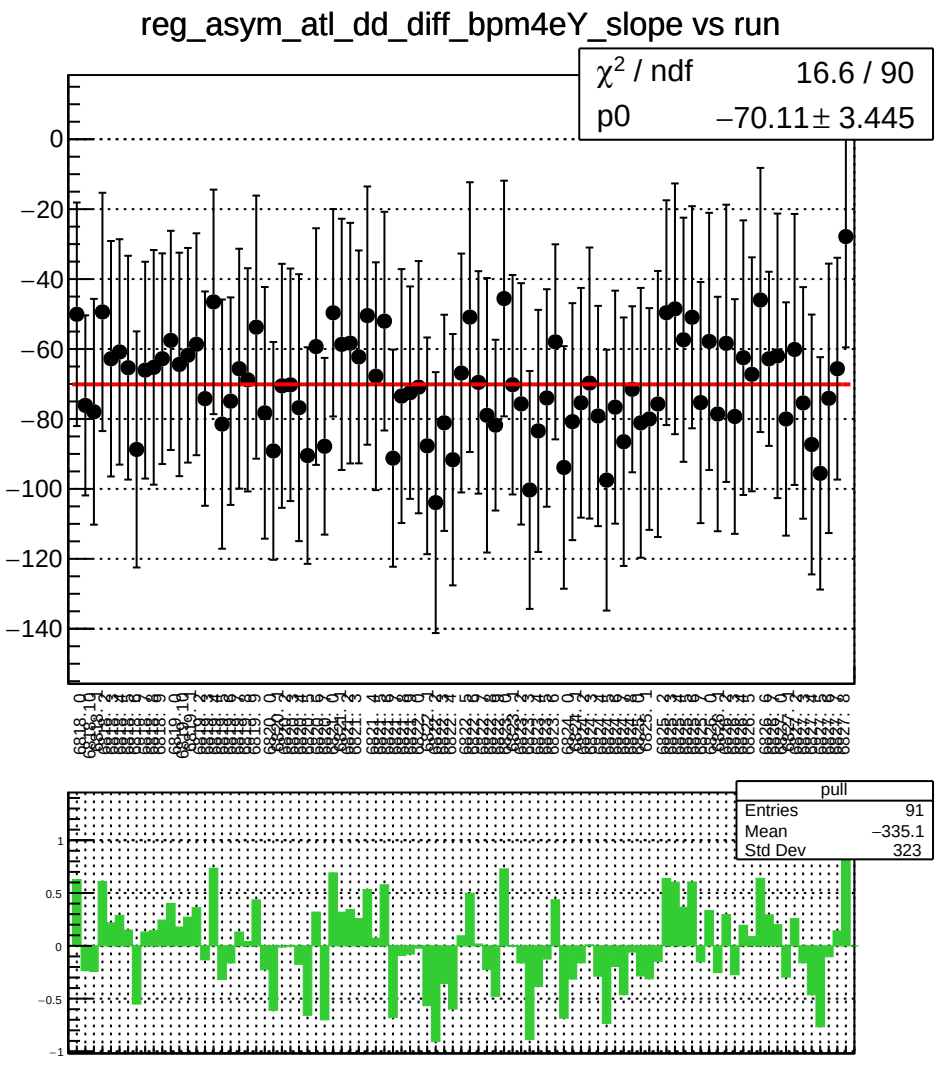

pull1D
Entries 91
Mean 0.002789
Std Dev 0.4305

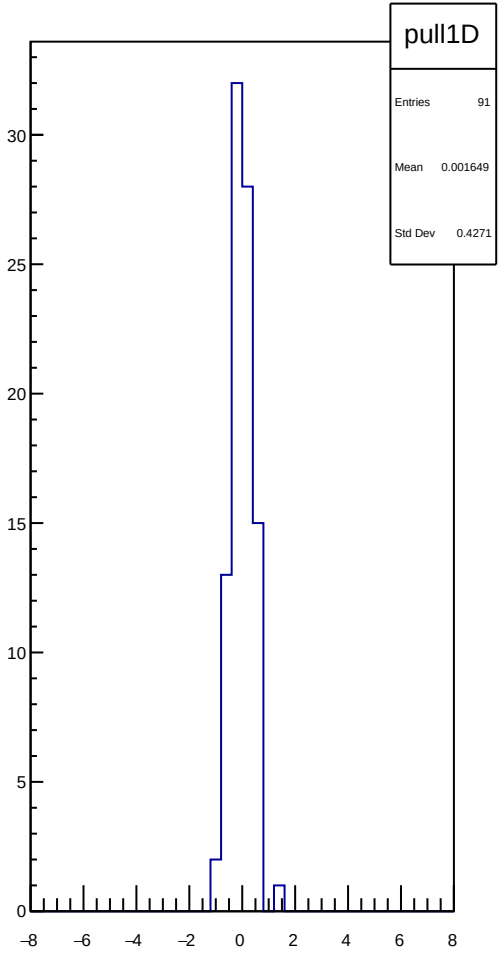

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.87 / 90
p0 −4.636 ± 2.97
pull
Entries 91
Mean 58.09
Std Dev 113.2

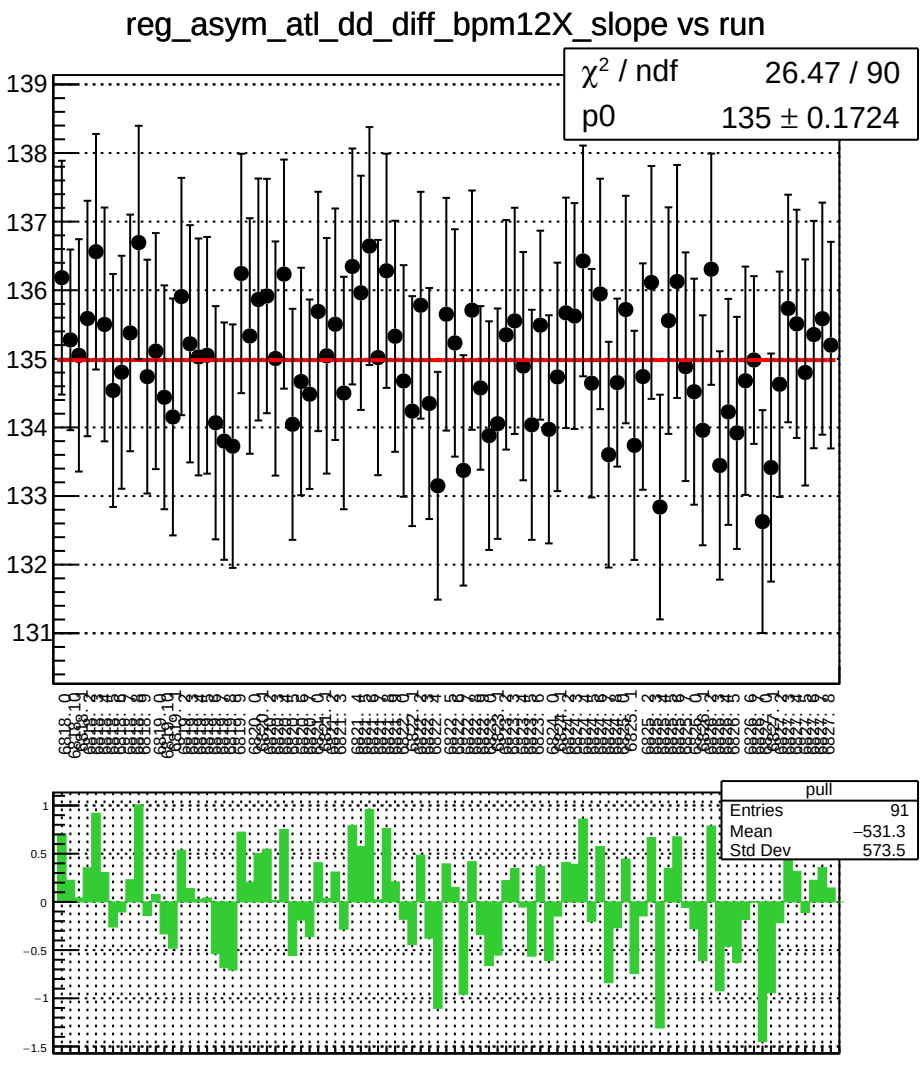

pull1D
Entries 91
Mean −0.004405
Std Dev 0.4043

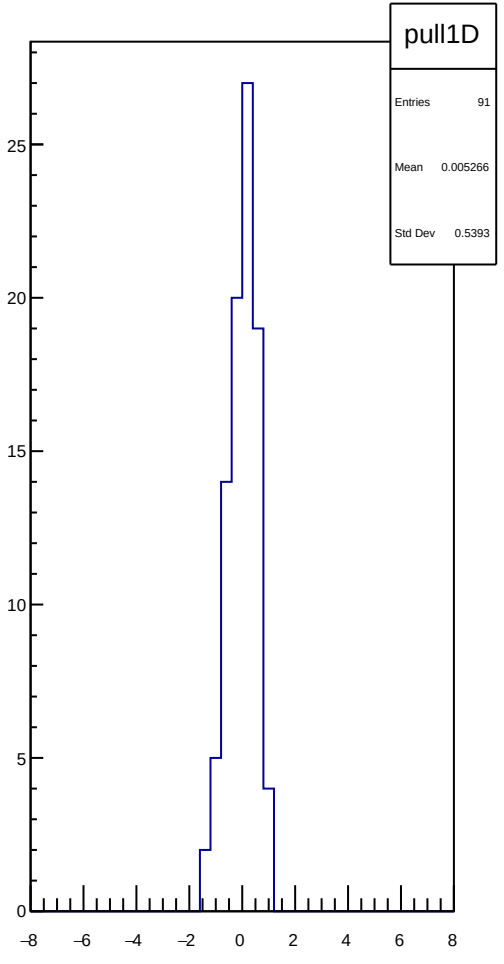

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.24 / 90
p0 −206.1± 4.117
pull
Entries 91
Mean 151.6
Std Dev 160

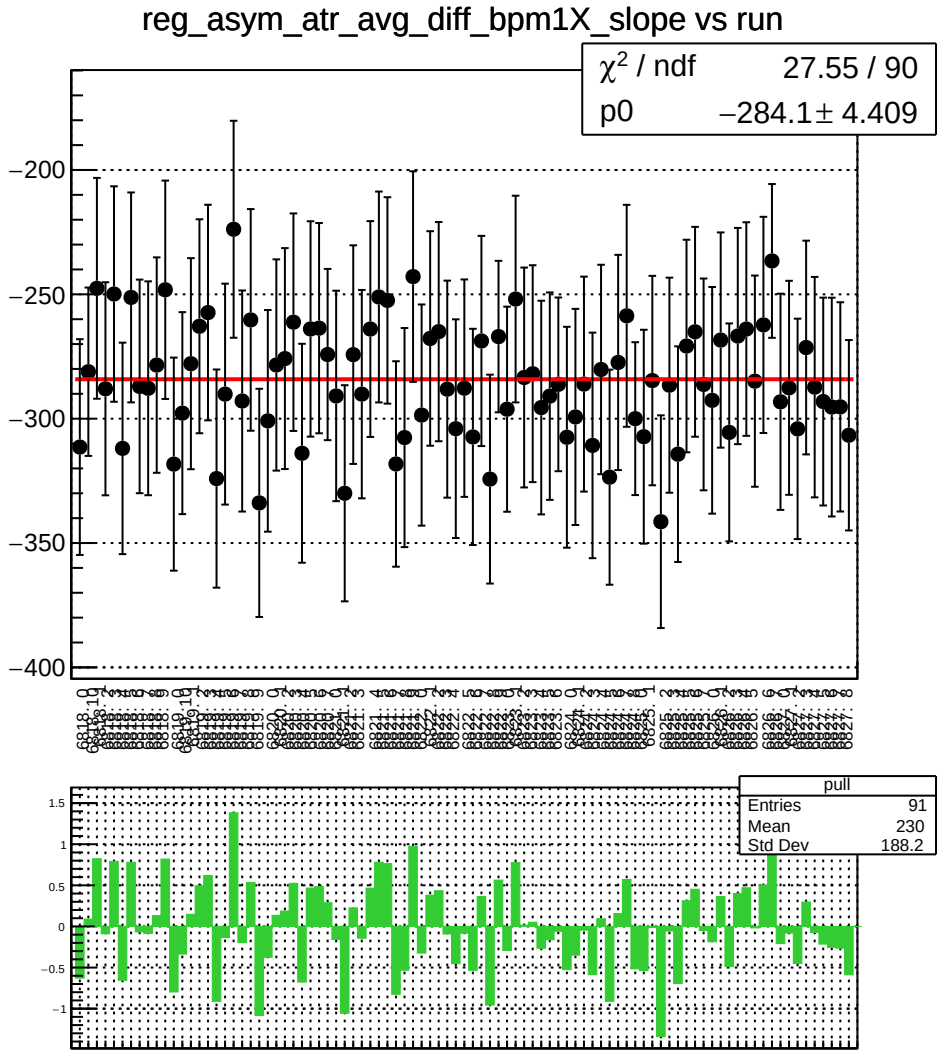

pull1D
Entries 91
Mean −0.002716
Std Dev 0.4353

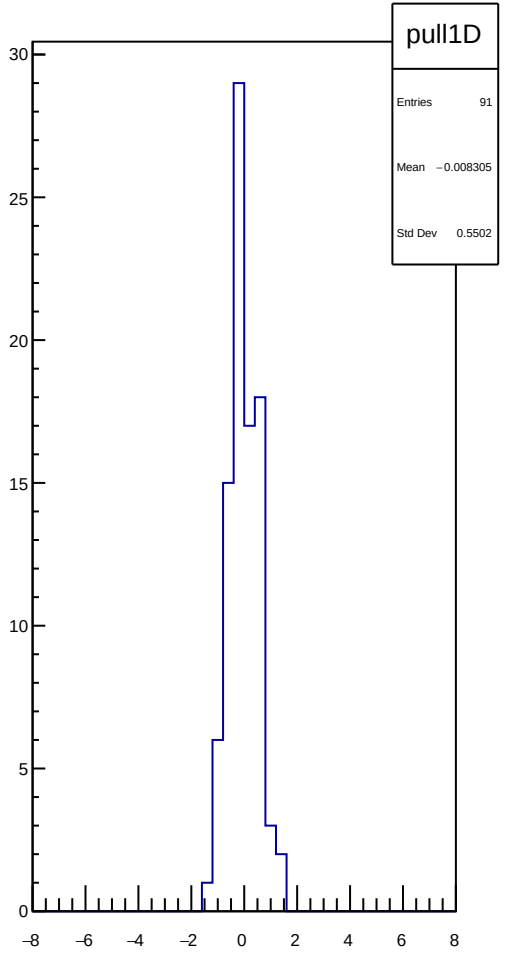

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.6 / 90
p0 −70.11 ± 3.445
pull
Entries 91
Mean −335.1
Std Dev 323

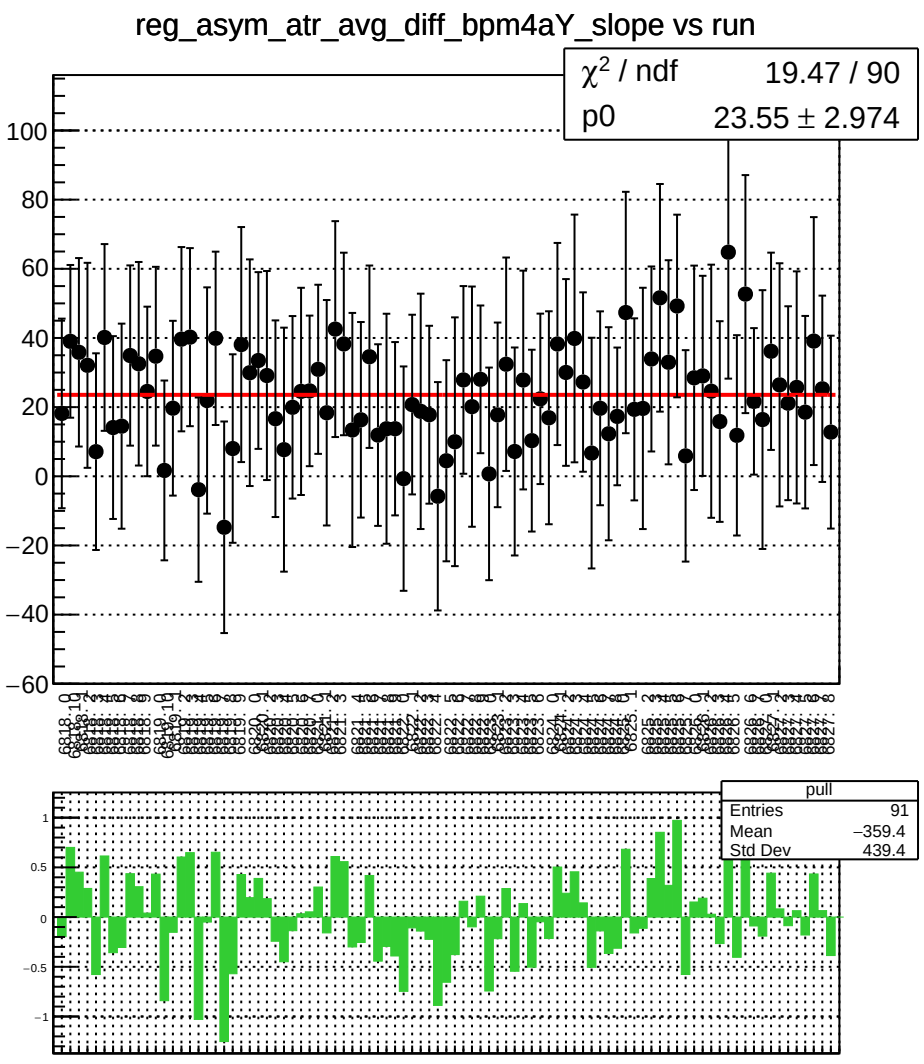

pull1D
Entries 91
Mean 0.001649
Std Dev 0.4271

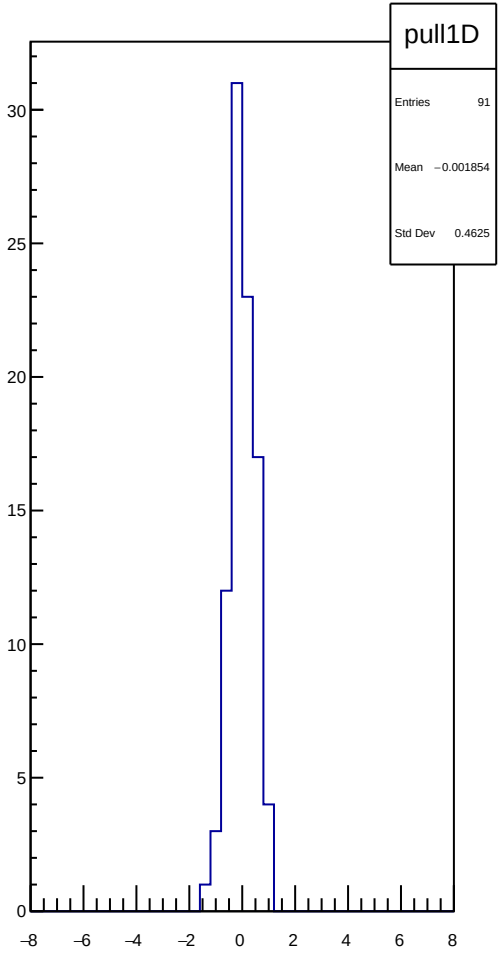

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 26.47 / 90
p0 135 ± 0.1724
pull
Entries 91
Mean −531.3
Std Dev 573.5

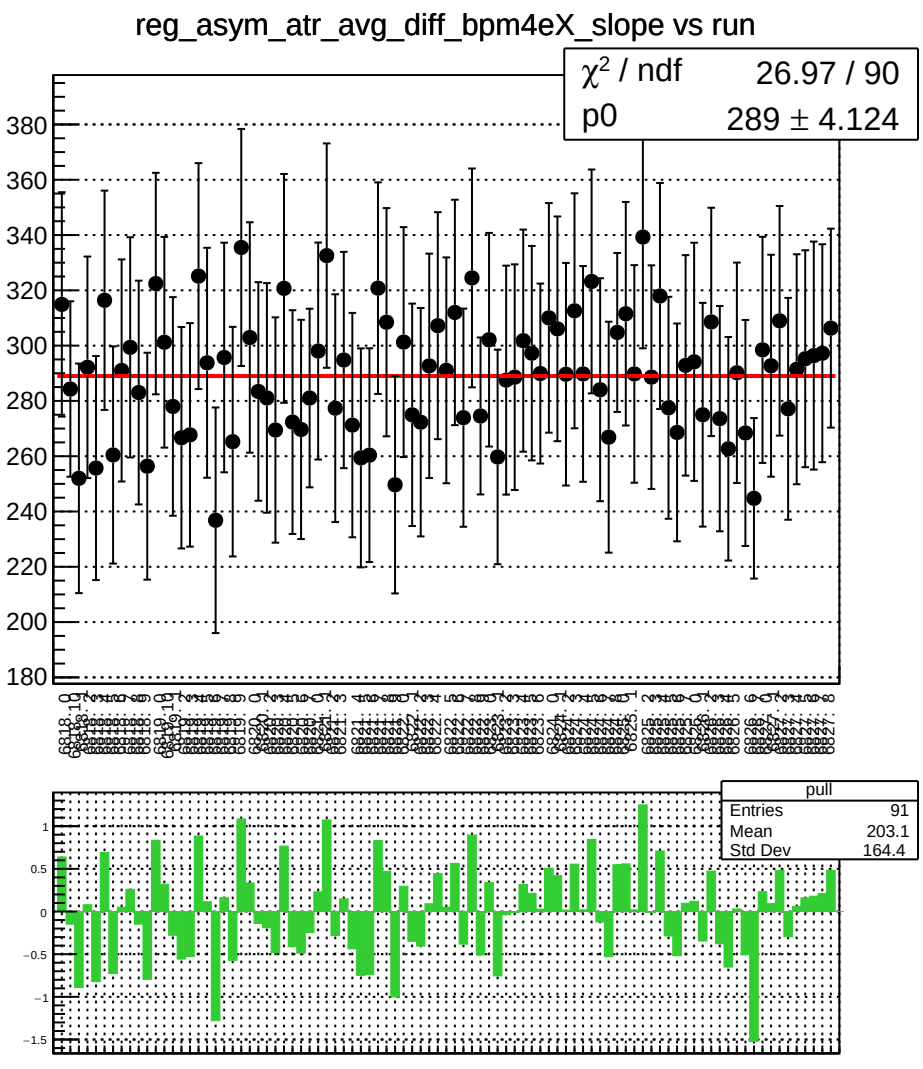

pull1D
Entries 91
Mean 0.005266
Std Dev 0.5393

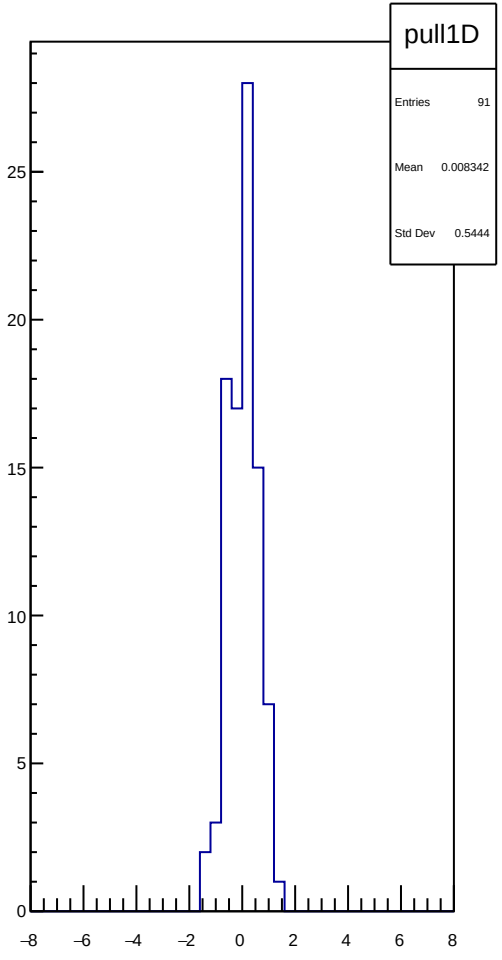

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 27.55 / 90
p0 −284.1 ± 4.409
−200
−250
−300
−350
−400
pull
Entries 91
Mean 230
Std Dev 188.2
1.5
1
0.5
0
−0.5
−1

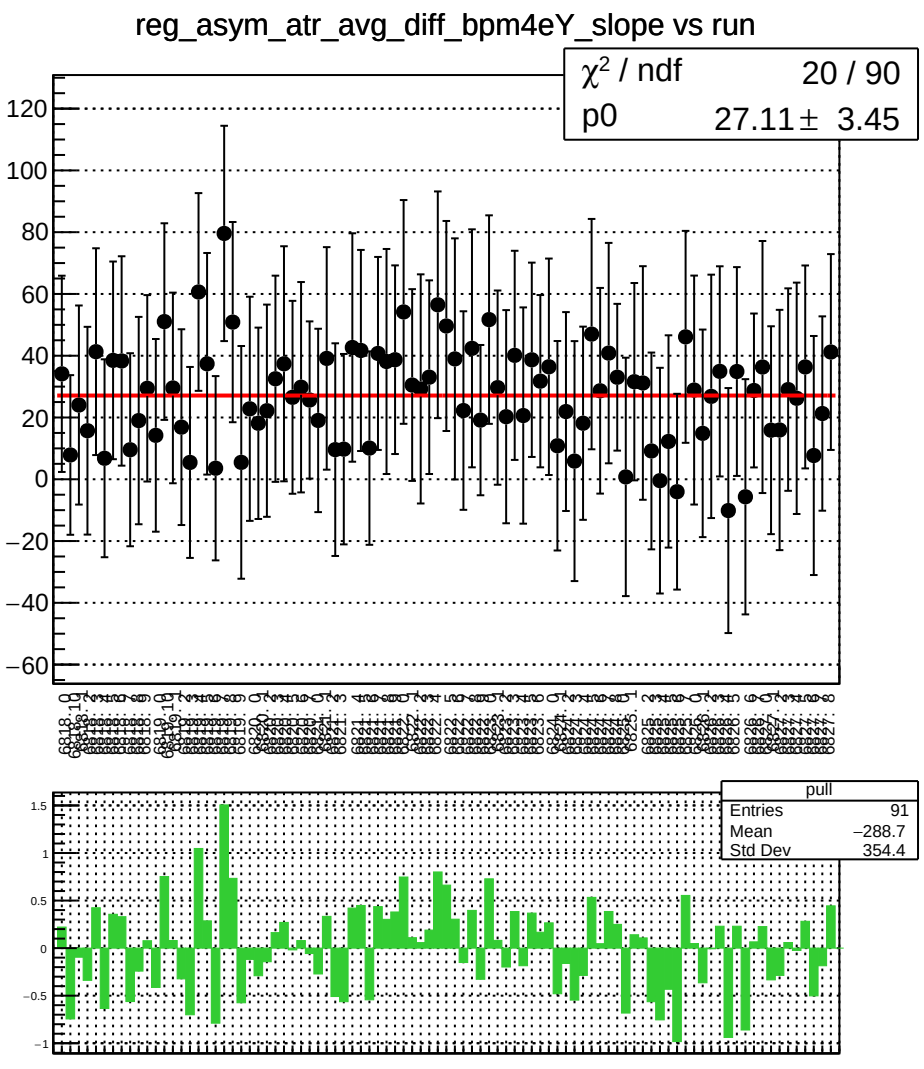

pull1D
Entries 91
Mean −0.008305
Std Dev 0.5502
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

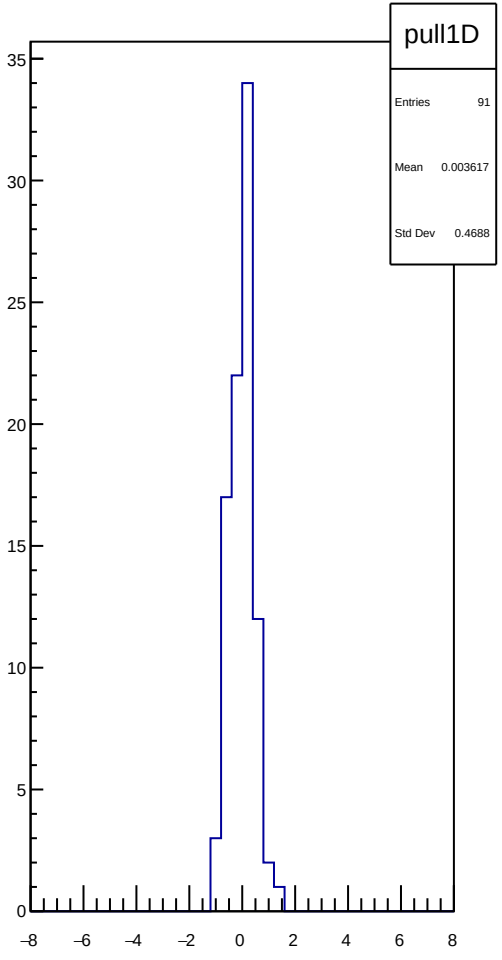

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.47 / 90
p0 23.55 ± 2.974
pull
Entries 91
Mean −359.4
Std Dev 439.4

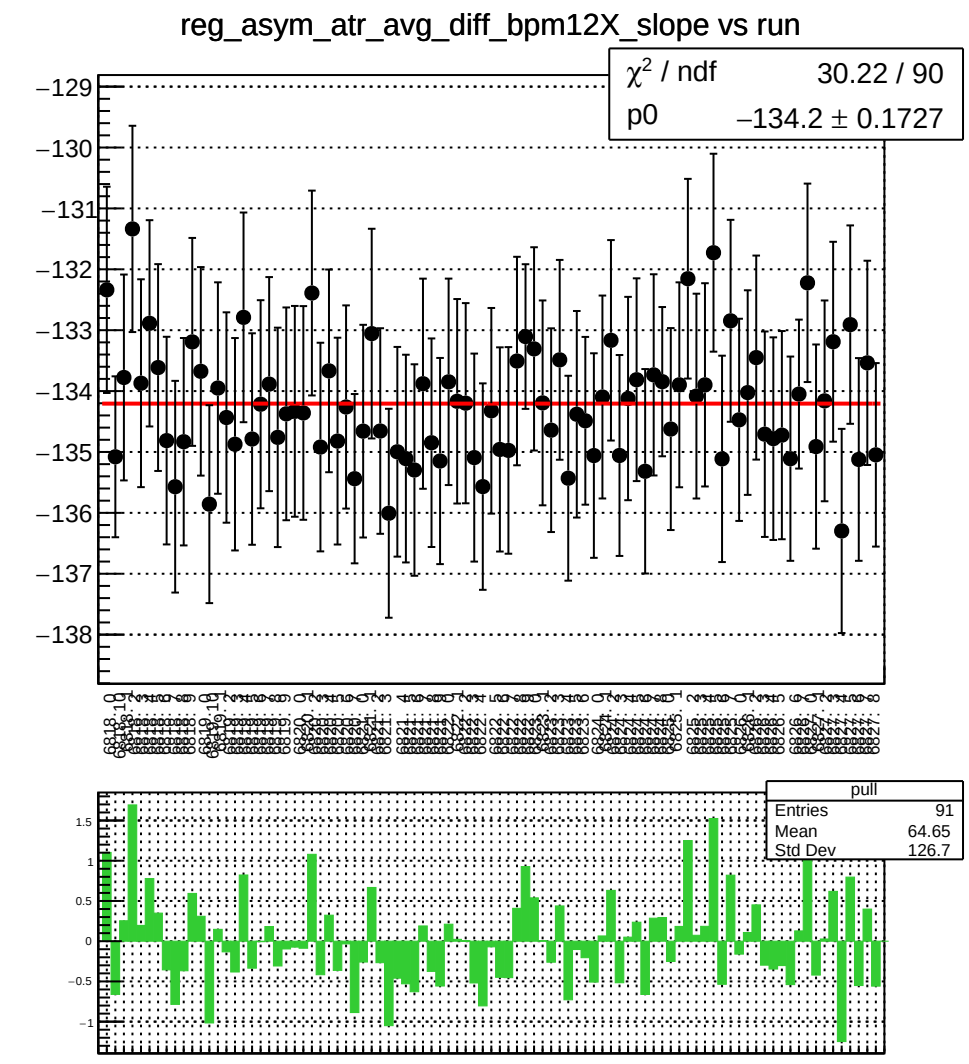

pull1D
Entries 91
Mean −0.001854
Std Dev 0.4625

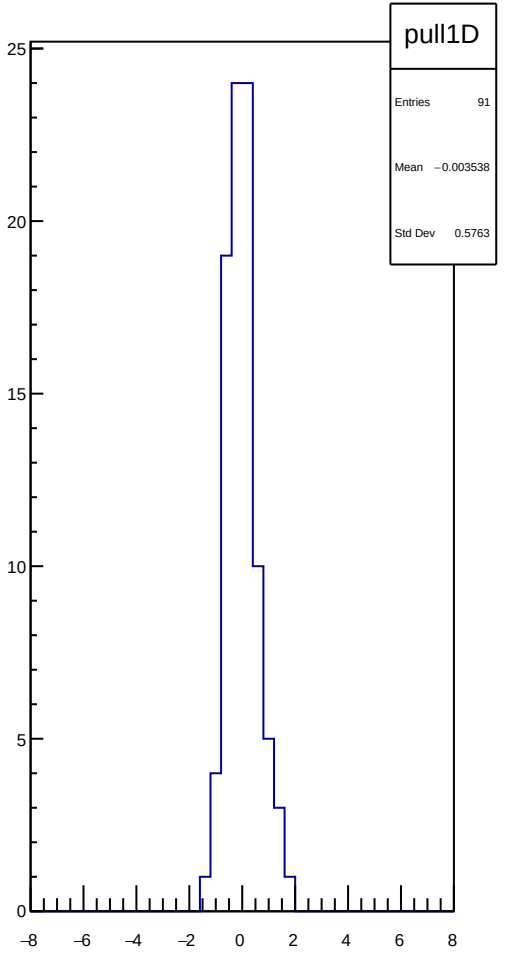

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.97 / 90
p0 289 ± 4.124
pull
Entries 91
Mean 203.1
Std Dev 164.4

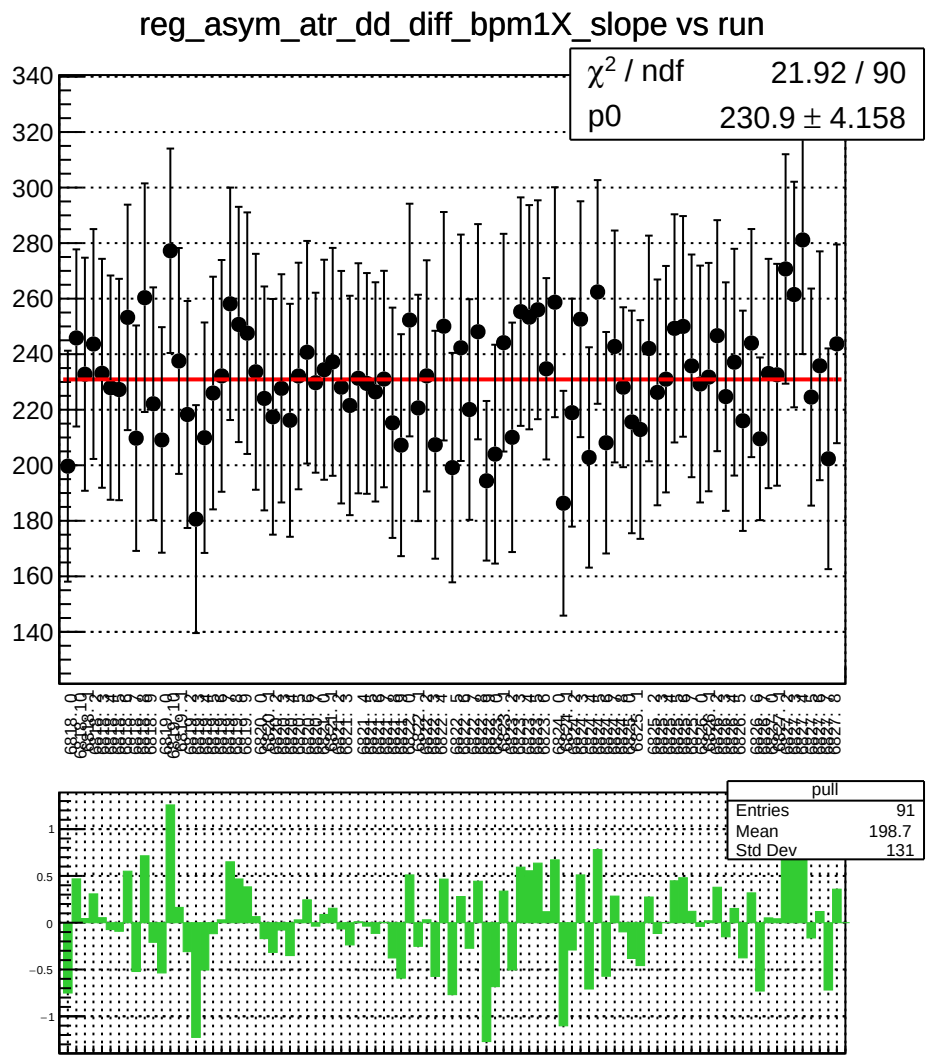

pull1D
Entries 91
Mean 0.008342
Std Dev 0.5444

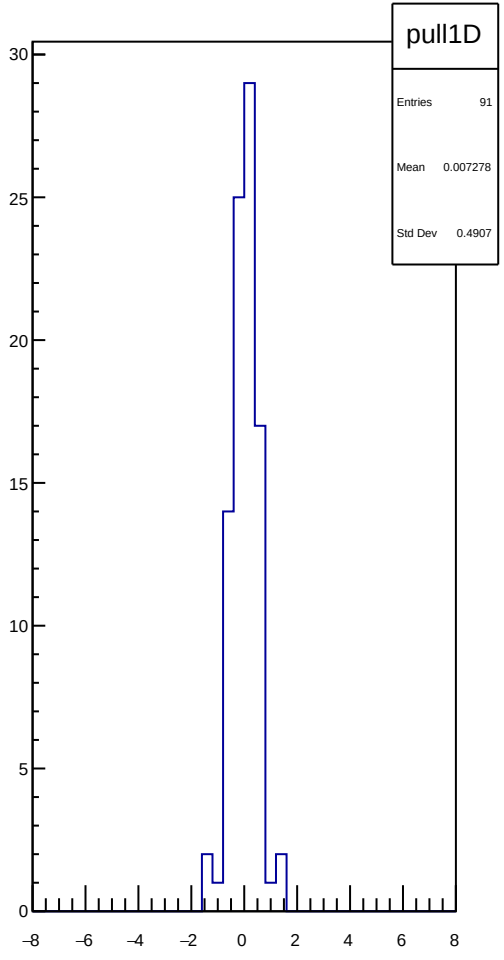

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 20 / 90
p0 27.11 ± 3.45
pull
Entries 91
Mean −288.7
Std Dev 354.4

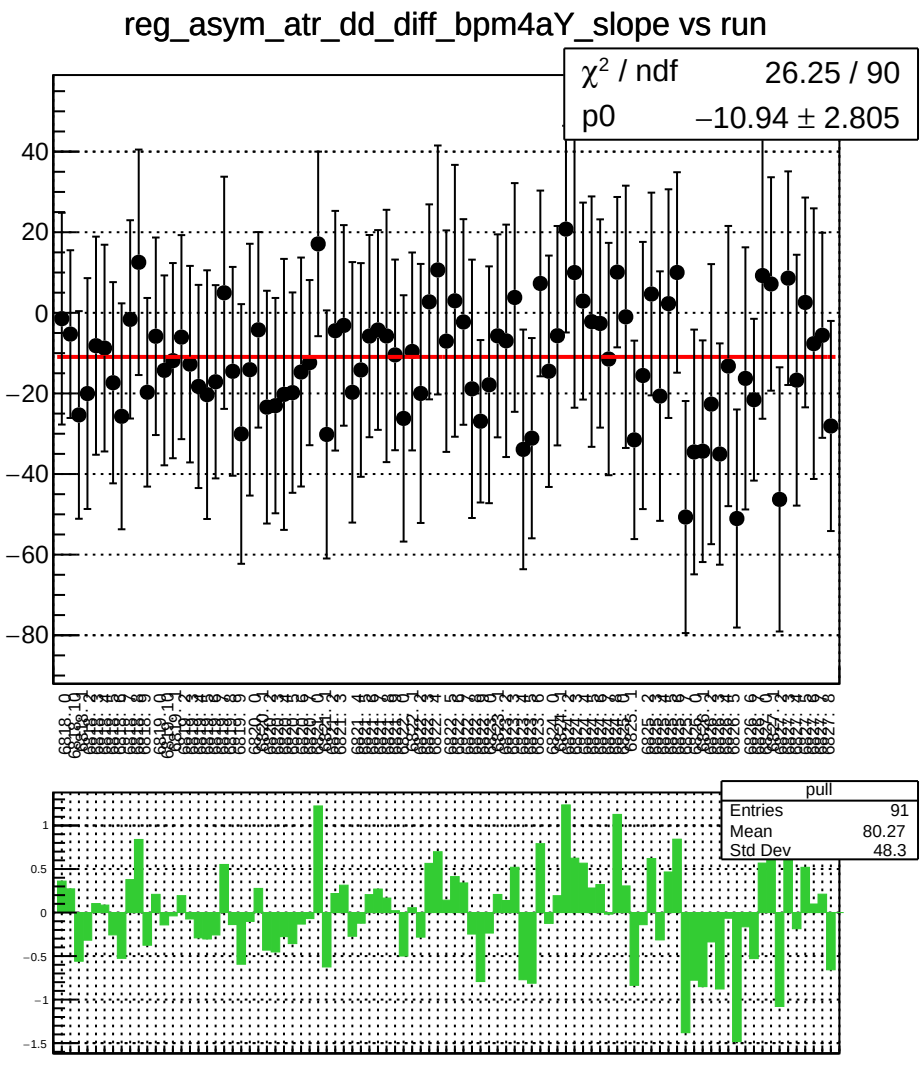

pull1D
Entries 91
Mean 0.003617
Std Dev 0.4688

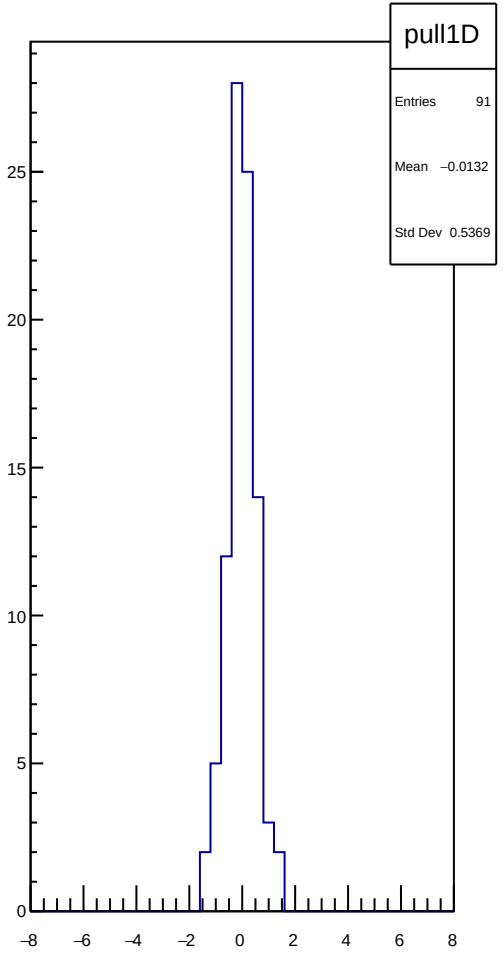

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 30.22 / 90
p0 −134.2 ± 0.1727
pull
Entries 91
Mean 64.65
Std Dev 126.7

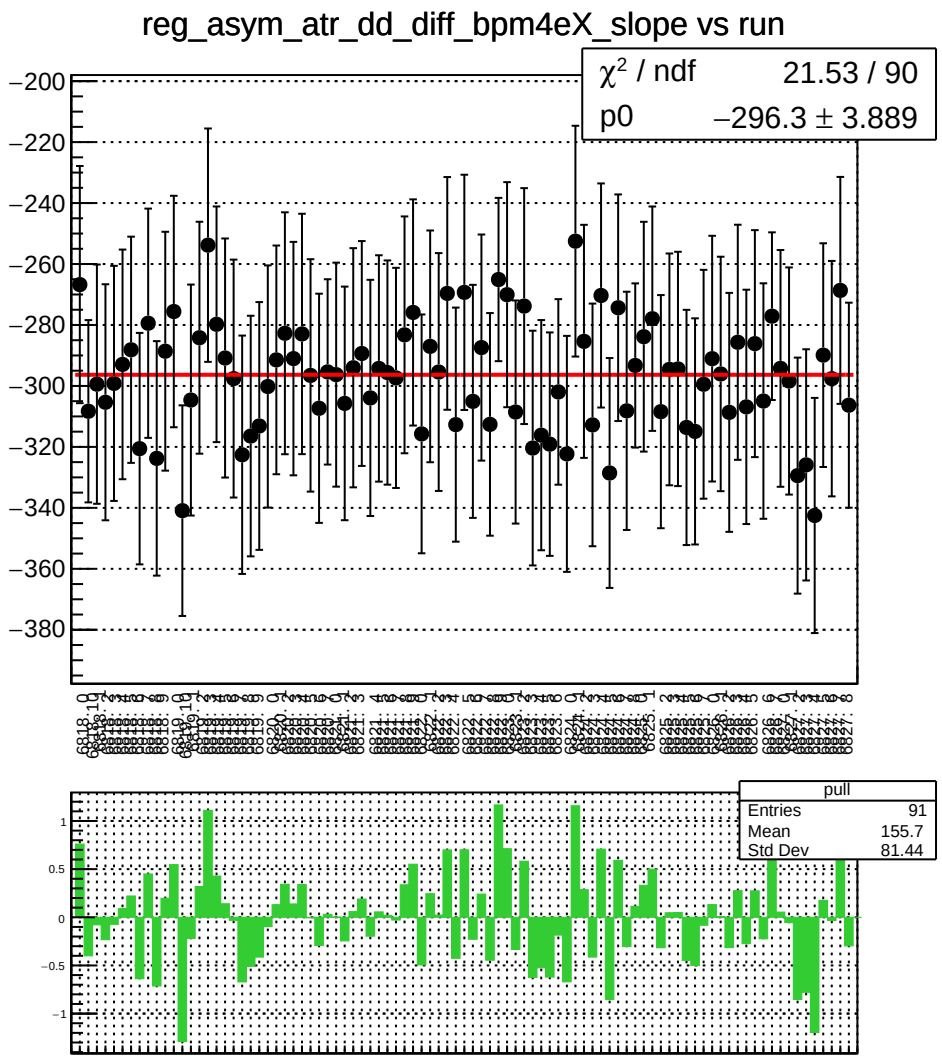

pull1D
Entries 91
Mean −0.003538
Std Dev 0.5763

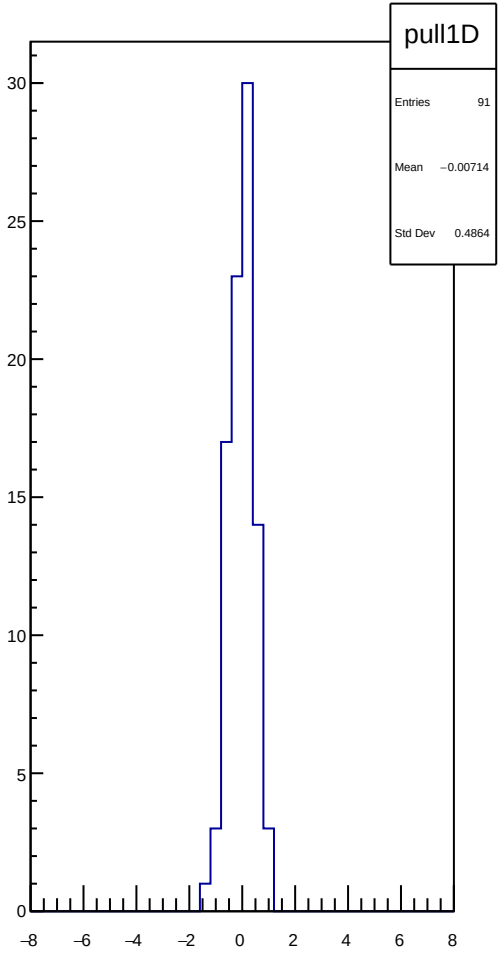

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 21.92 / 90
p0 230.9 ± 4.158
340
320
300
280
260
240
220
200
180
160
140
pull
Entries 91
Mean 198.7
Std Dev 131
1
0.5
0
−0.5
−1

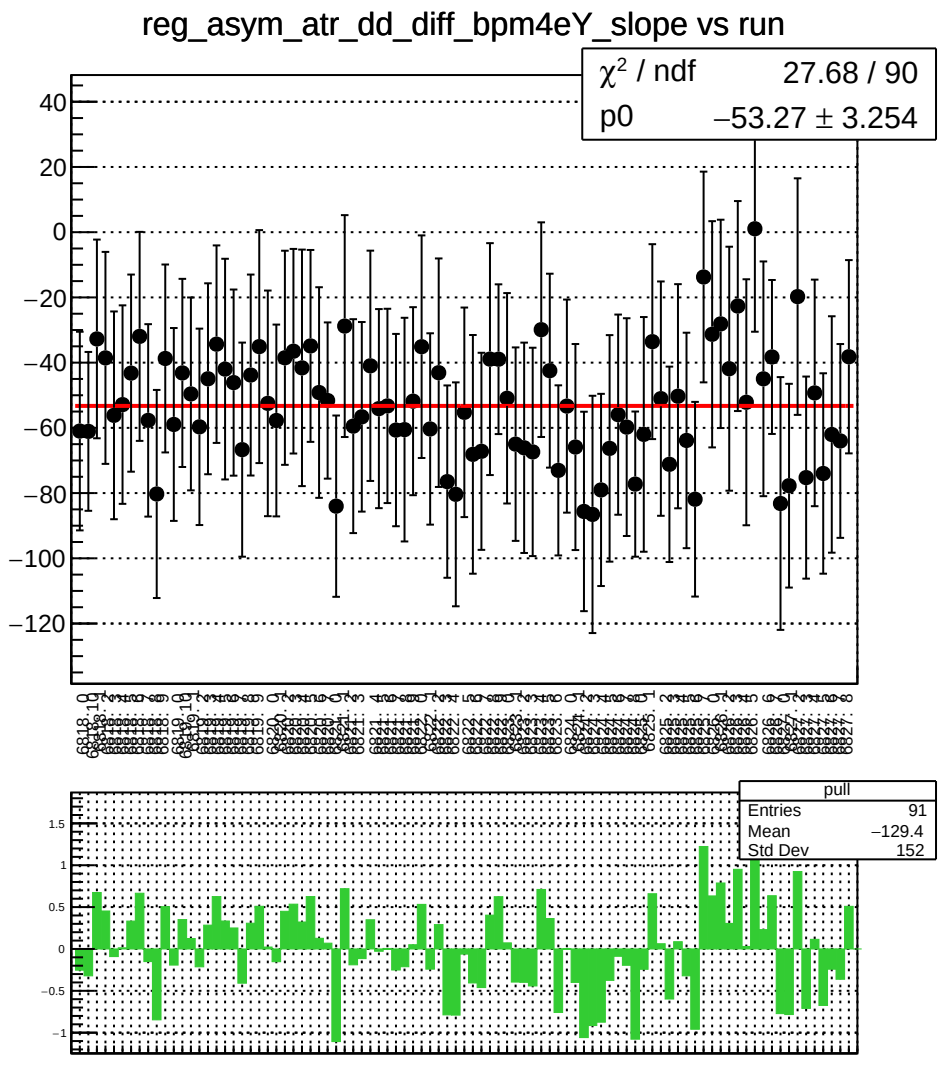

pull1D
Entries 91
Mean 0.007278
Std Dev 0.4907
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

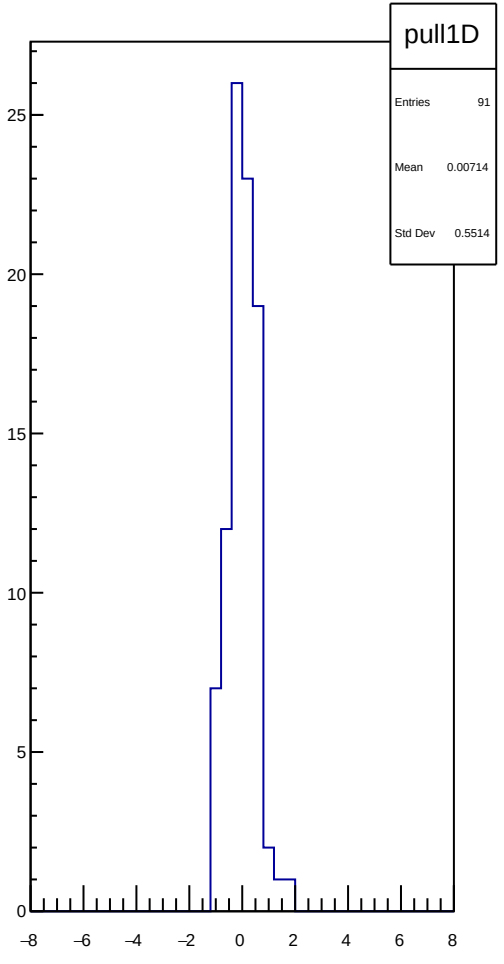

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.25 / 90
p0 −10.94 ± 2.805
pull
Entries 91
Mean 80.27
Std Dev 48.3

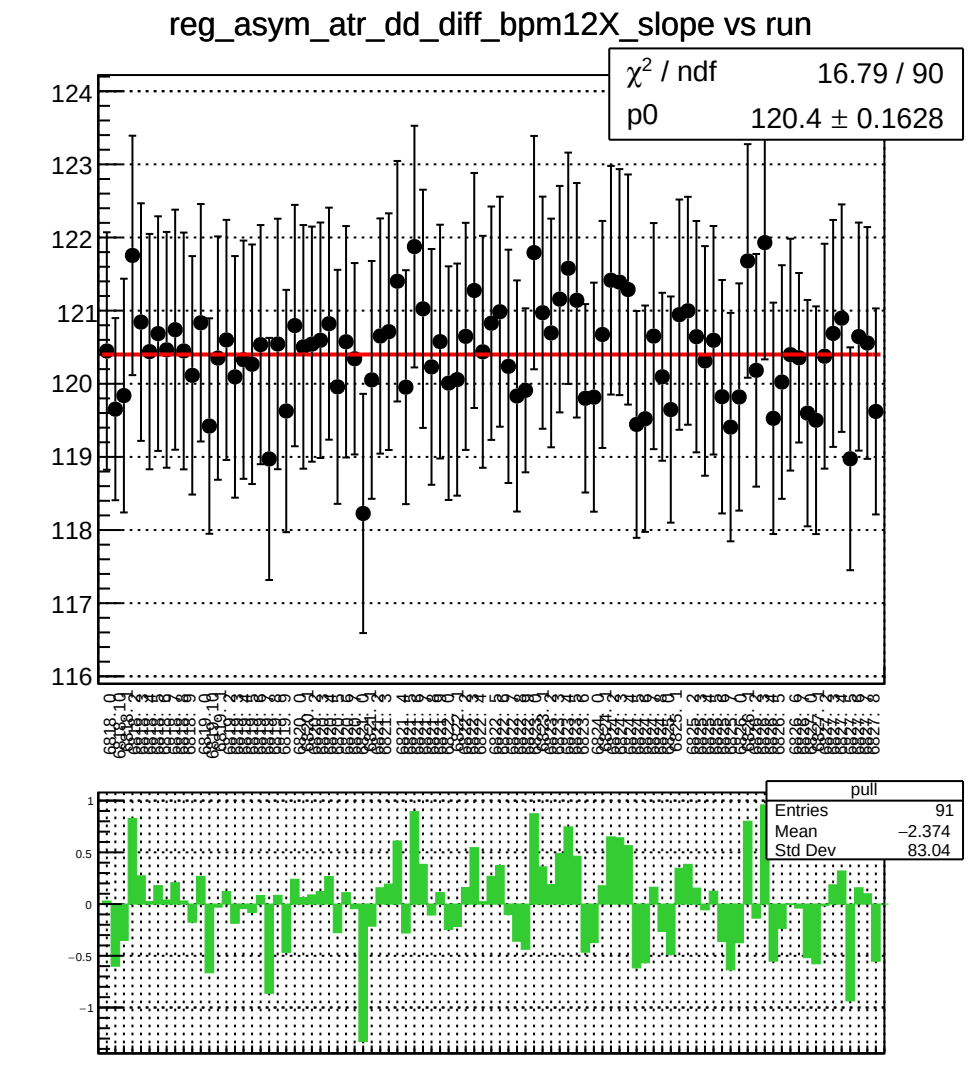

pull1D
Entries 91
Mean −0.0132
Std Dev 0.5369

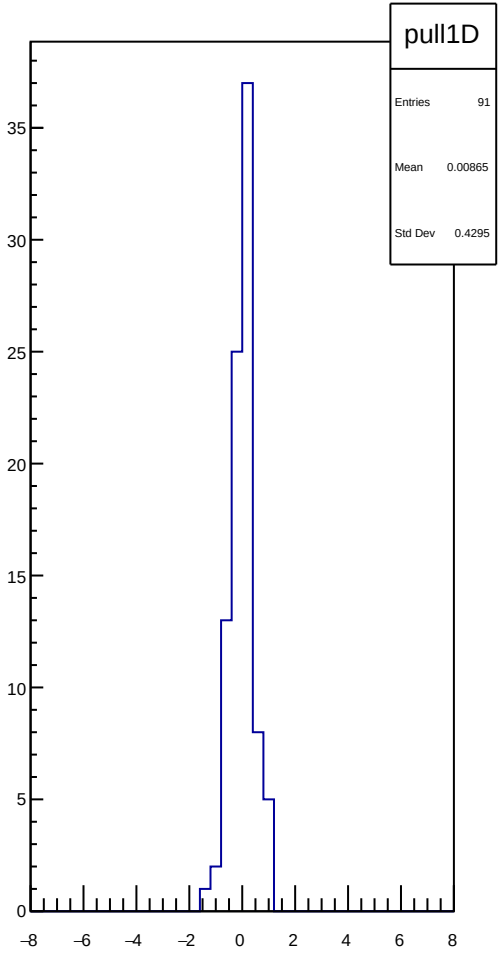

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.53 / 90
p0 −296.3 ± 3.889
pull
Entries 91
Mean 155.7
Std Dev 81.44

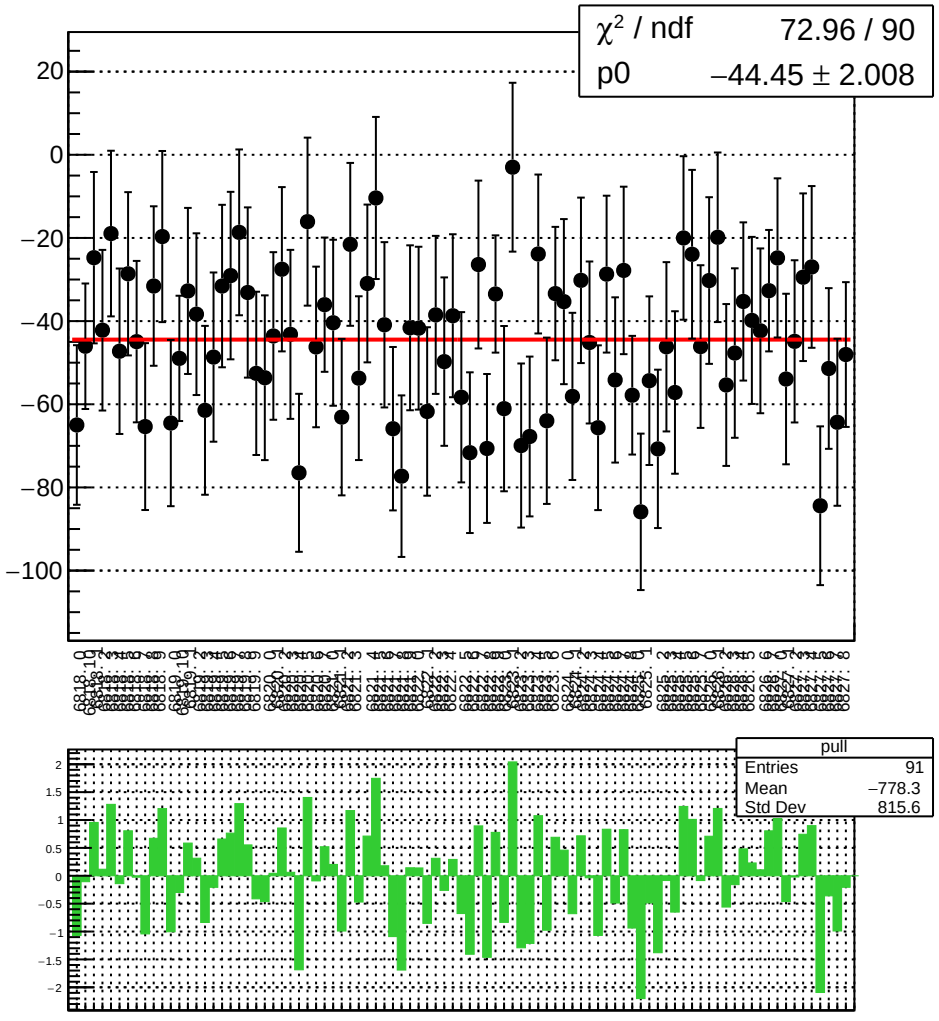

pull1D
Entries 91
Mean −0.00714
Std Dev 0.4864

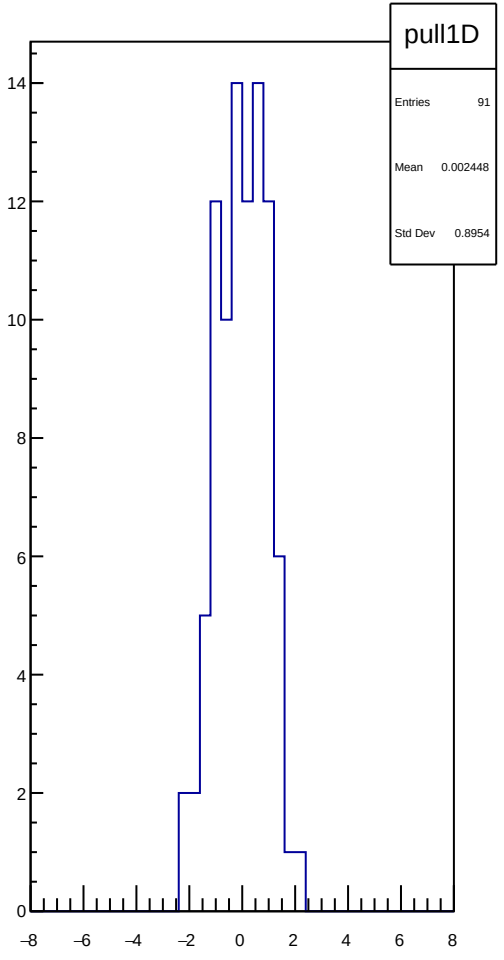

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.68 / 90
p0 −53.27 ± 3.254
pull
Entries 91
Mean −129.4
Std Dev 152

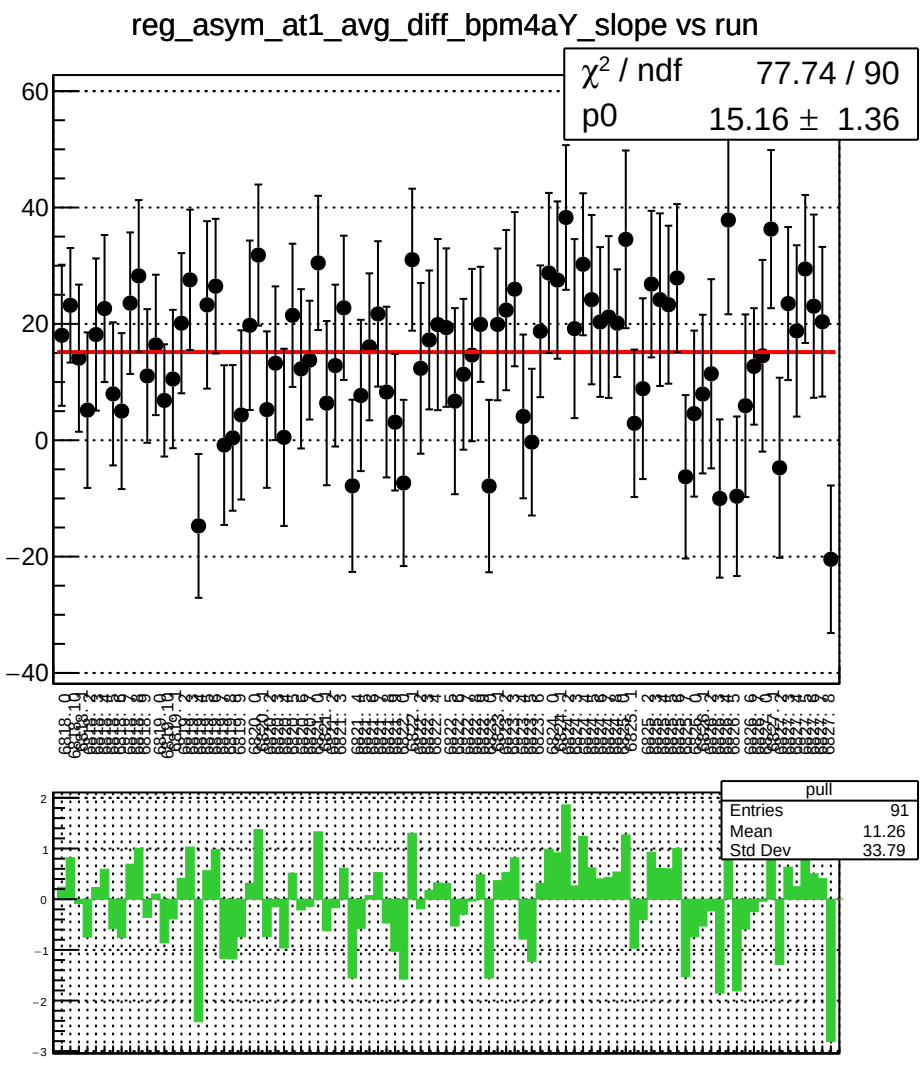

pull1D
Entries 91
Mean 0.00714
Std Dev 0.5514

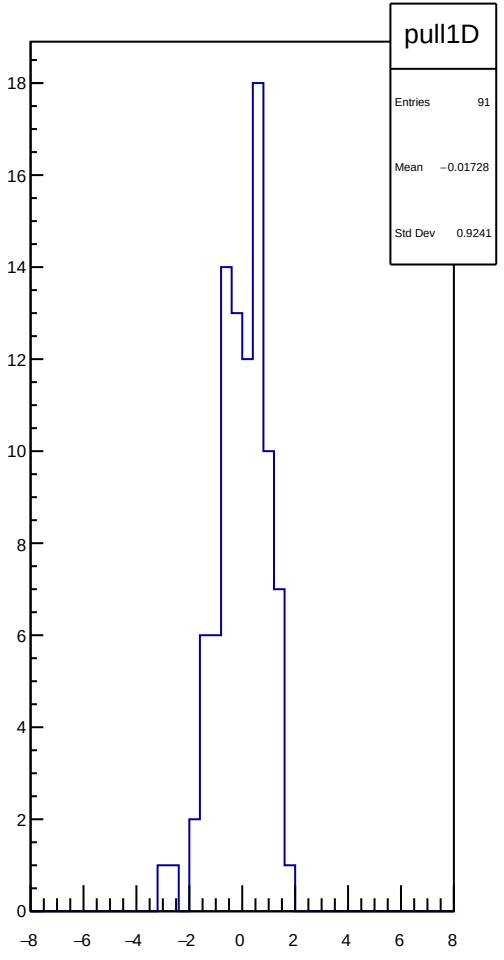

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 16.79 / 90
p0 120.4 ± 0.1628
pull
Entries 91
Mean −2.374
Std Dev 83.04

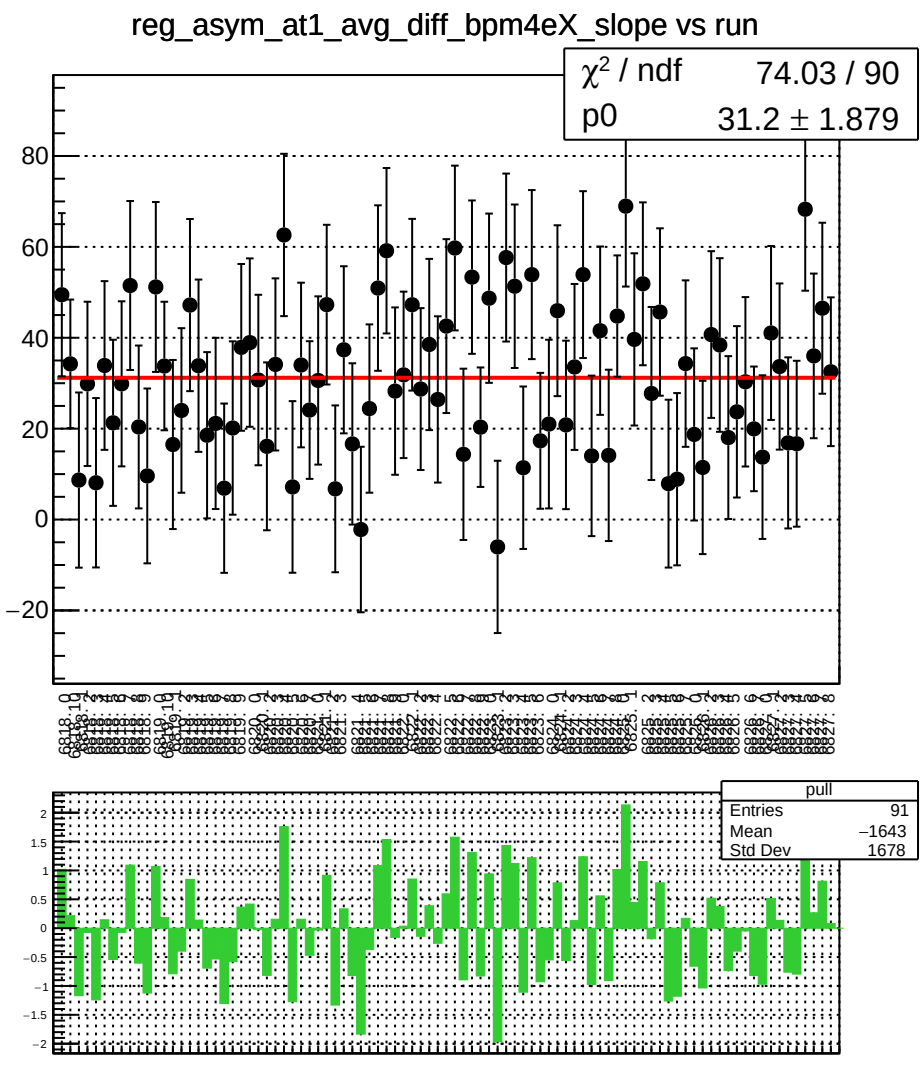

pull1D
Entries 91
Mean 0.00865
Std Dev 0.4295

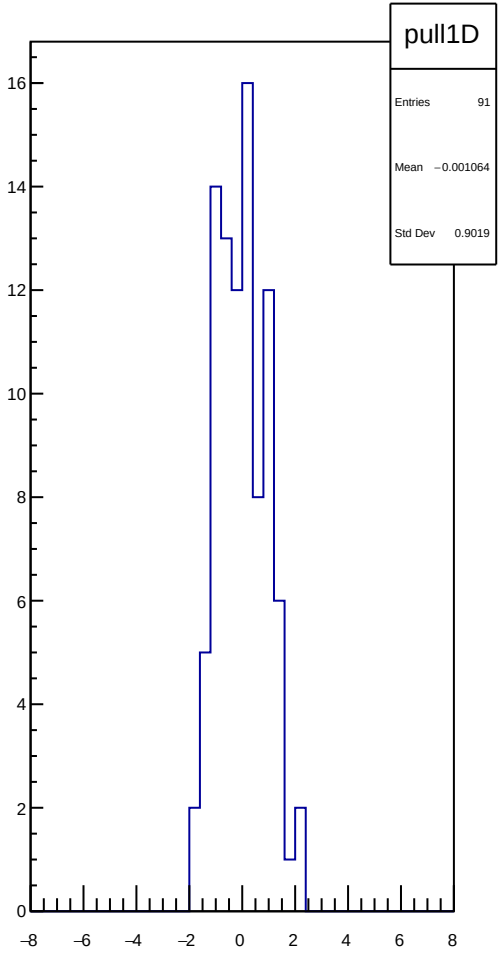

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 72.96 / 90
p0 −44.45 ± 2.008
pull
Entries 91
Mean −778.3
Std Dev 815.6

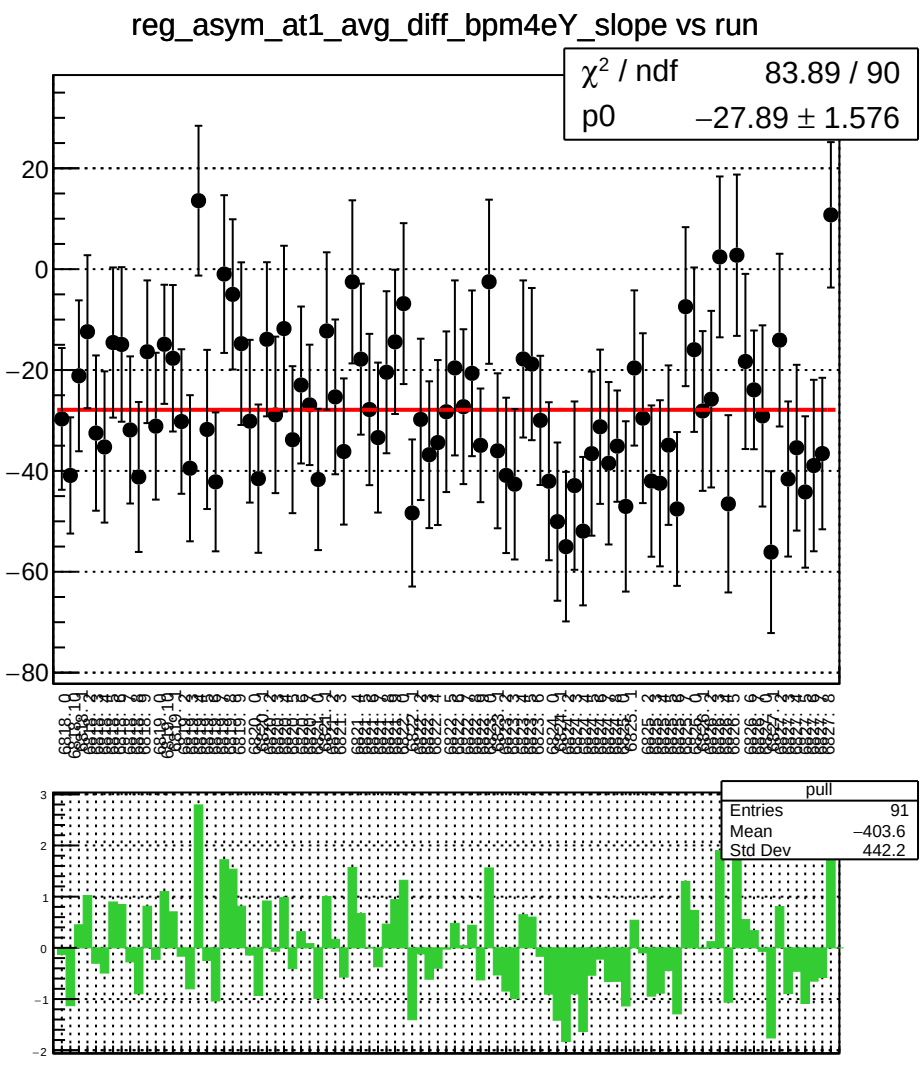

pull1D
Entries 91
Mean 0.002448
Std Dev 0.8954

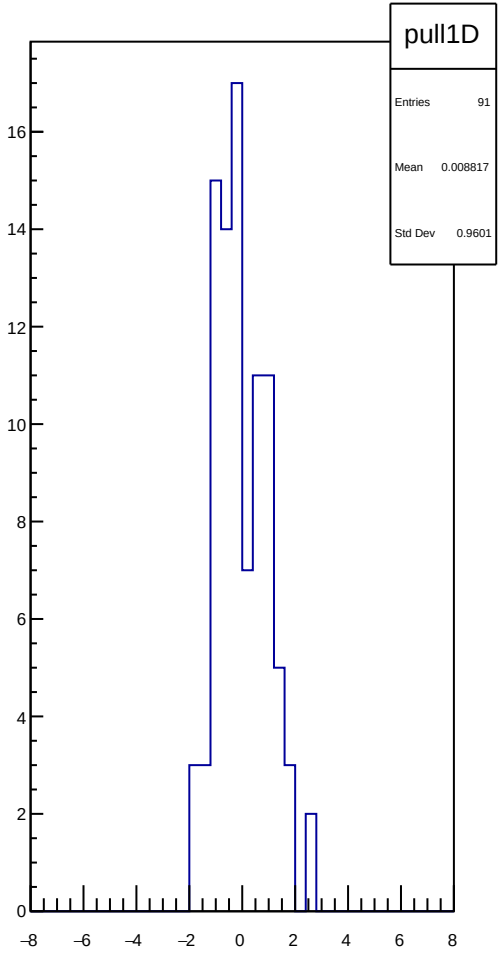

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.74 / 90
p0 15.16 ± 1.36
pull
Entries 91
Mean 11.26
Std Dev 33.79

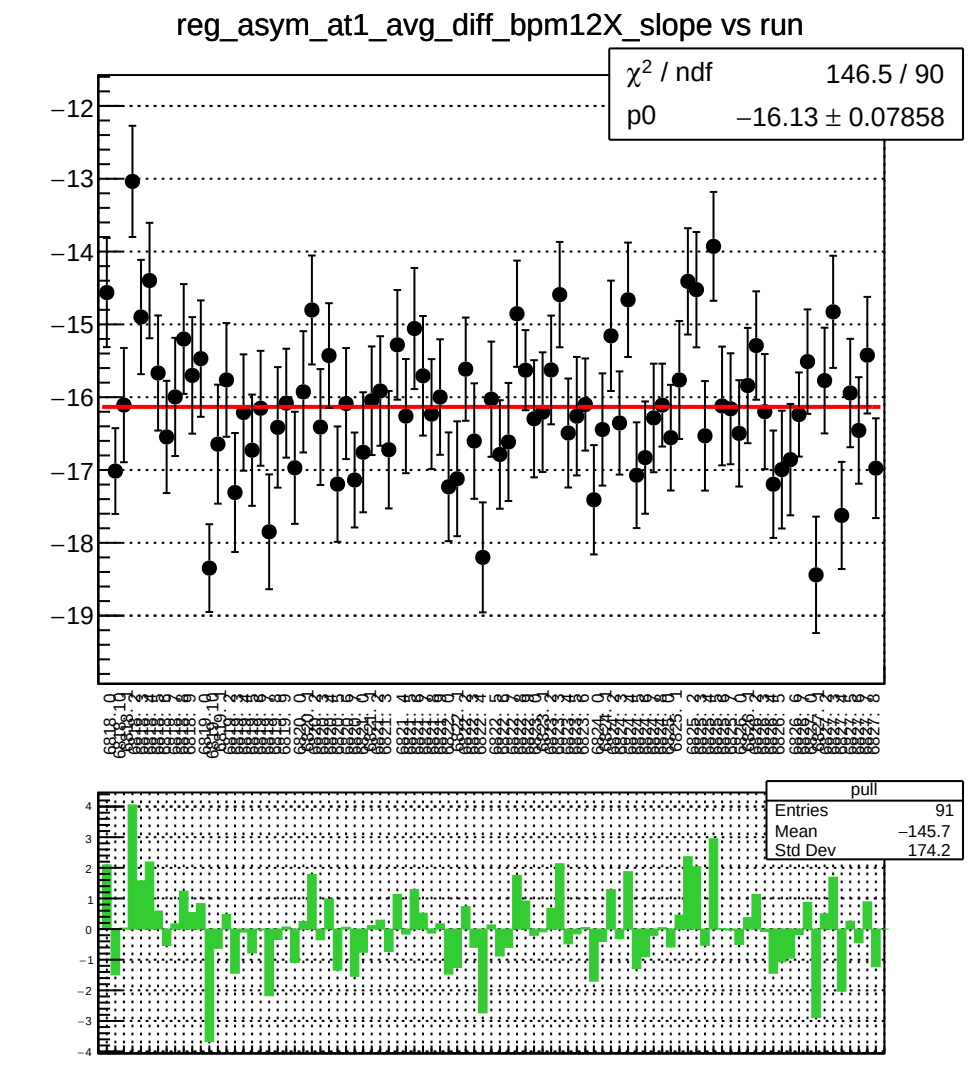

pull1D
Entries 91
Mean −0.01728
Std Dev 0.9241

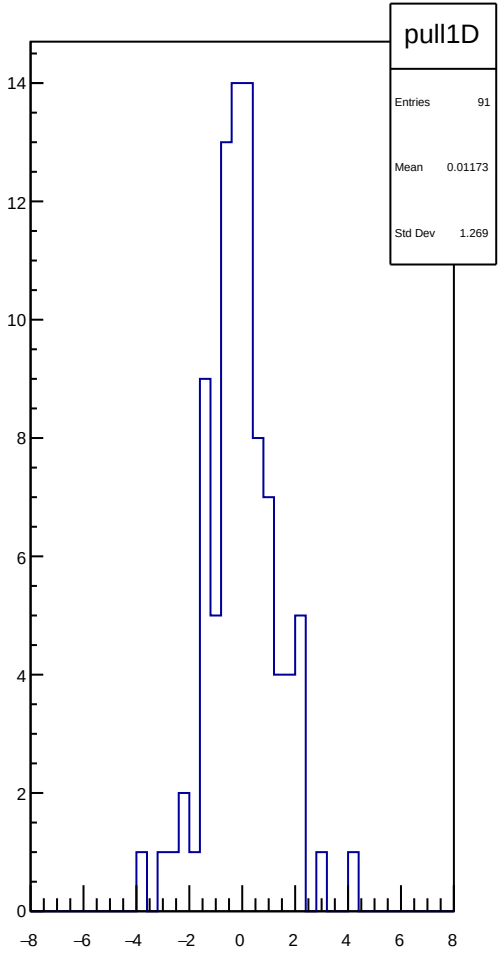

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.03 / 90
p0 31.2 ± 1.879
pull
Entries 91
Mean −1643
Std Dev 1678

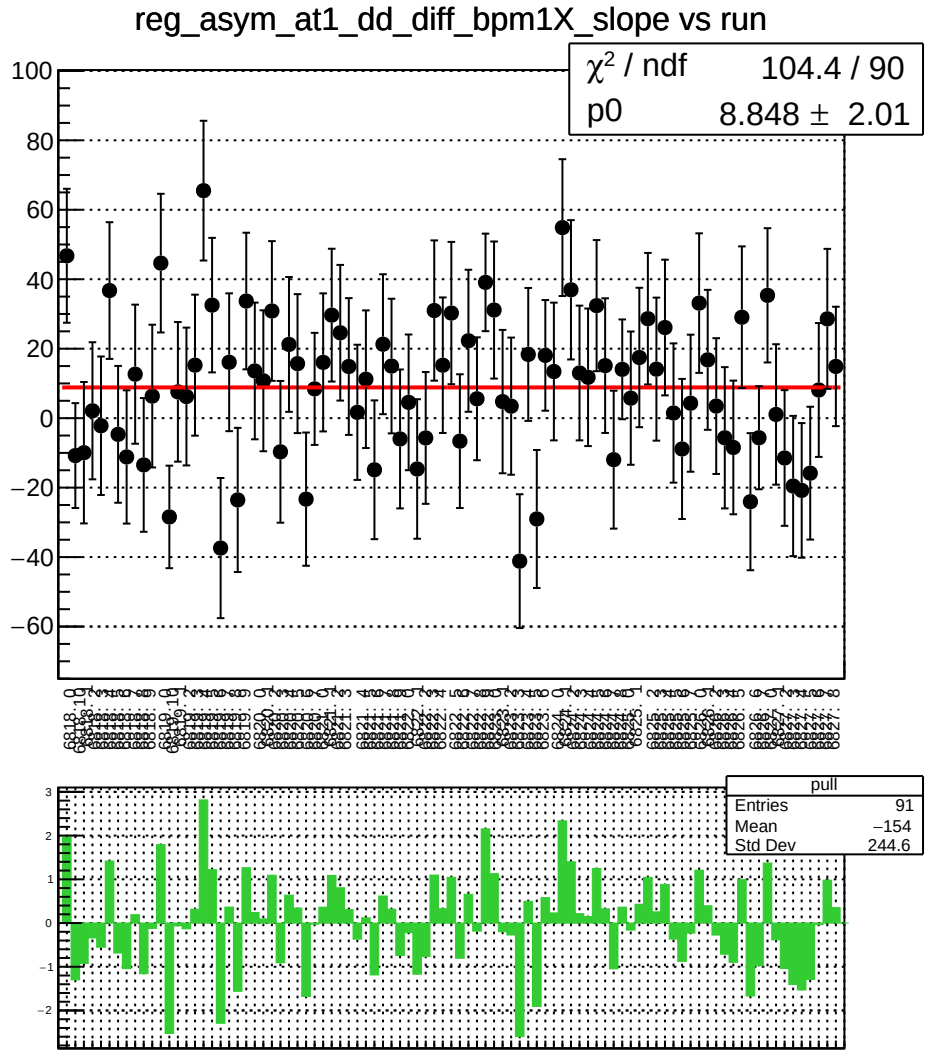

pull1D
Entries 91
Mean −0.001064
Std Dev 0.9019

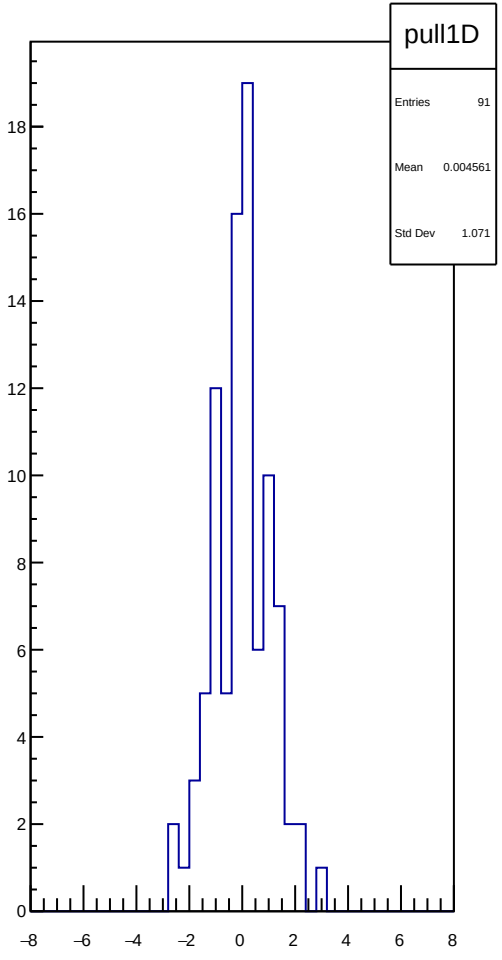

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.89 / 90
p0 −27.89 ± 1.576
pull
Entries 91
Mean −403.6
Std Dev 442.2

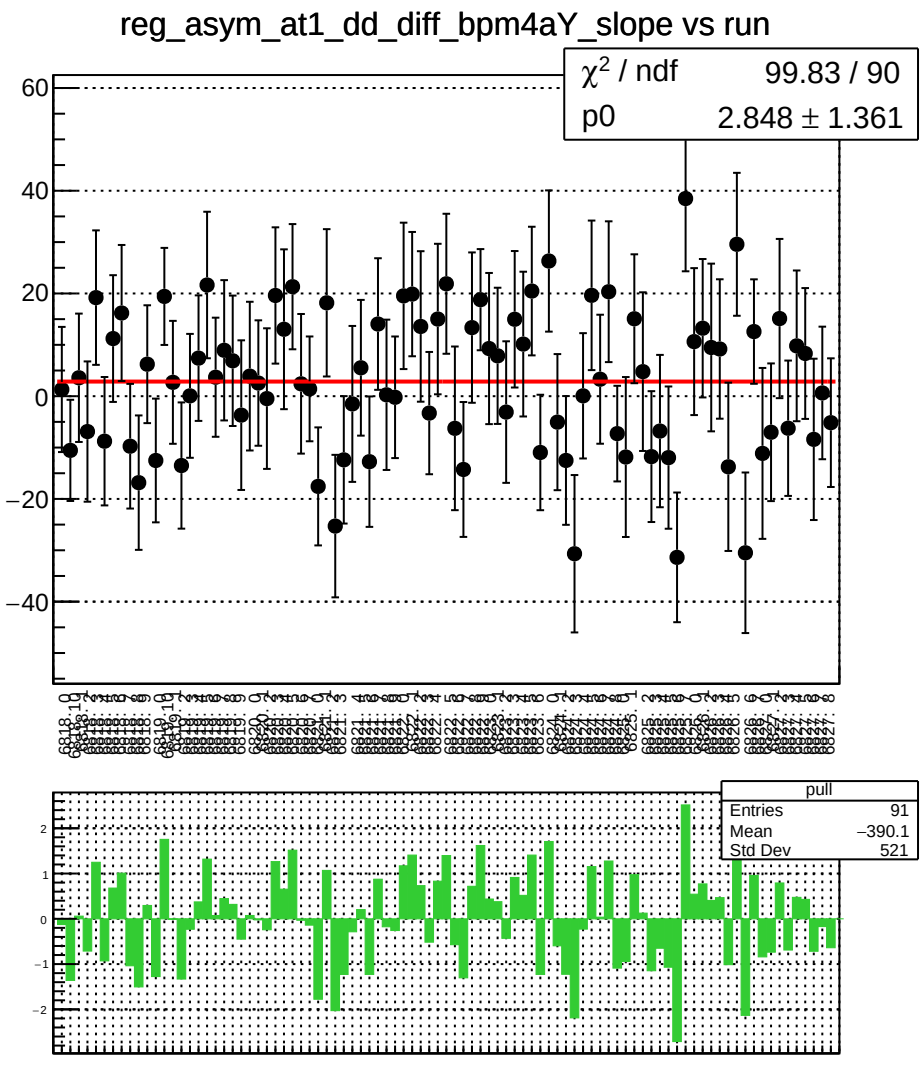

pull1D
Entries 91
Mean 0.008817
Std Dev 0.9601

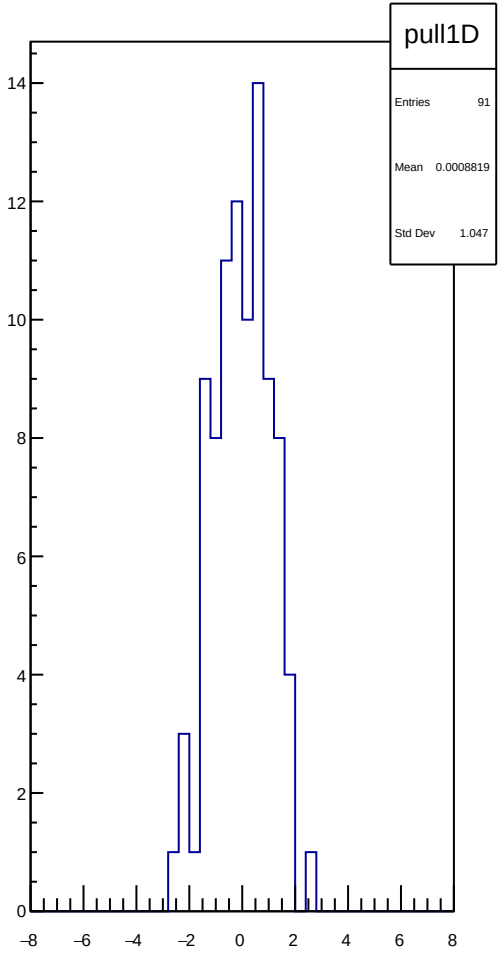

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 146.5 / 90
p0 −16.13 ± 0.07858
pull
Entries 91
Mean −145.7
Std Dev 174.2

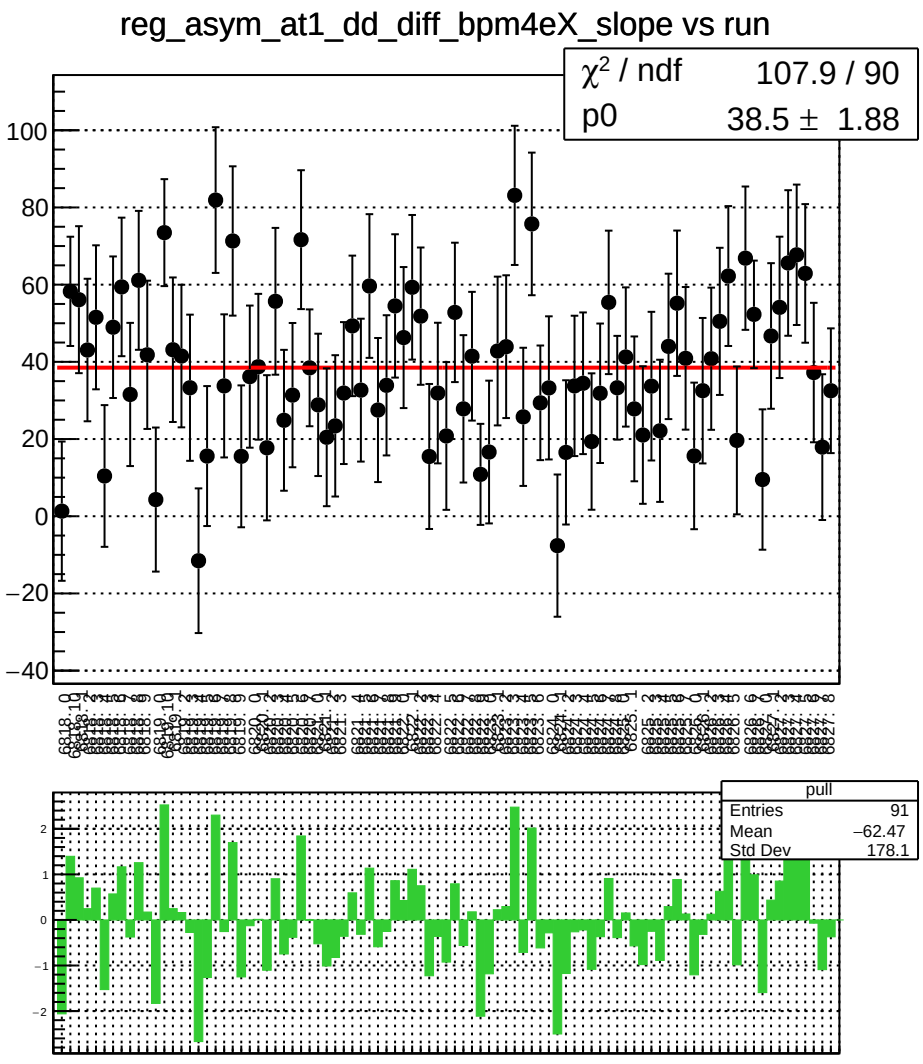

pull1D
Entries 91
Mean 0.01173
Std Dev 1.269

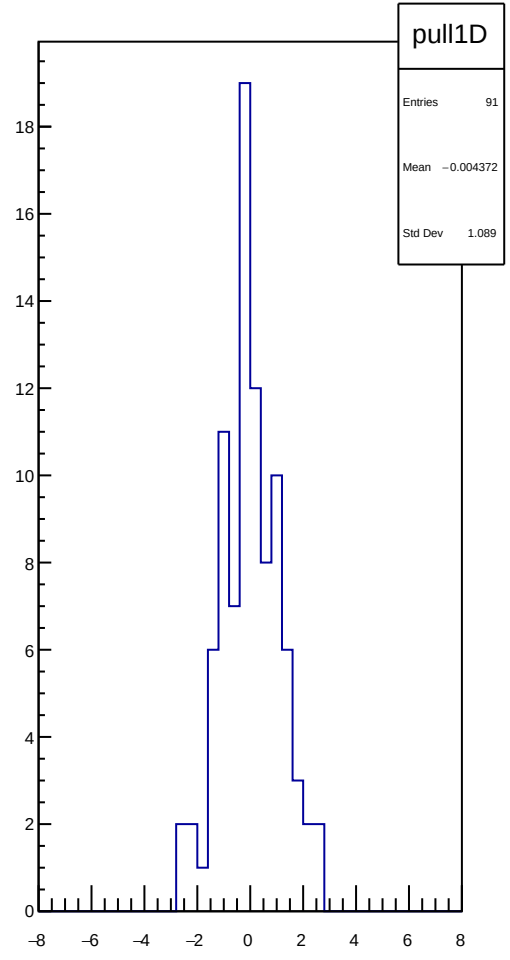

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 104.4 / 90
p0 8.848 ± 2.01
pull
Entries 91
Mean −154
Std Dev 244.6

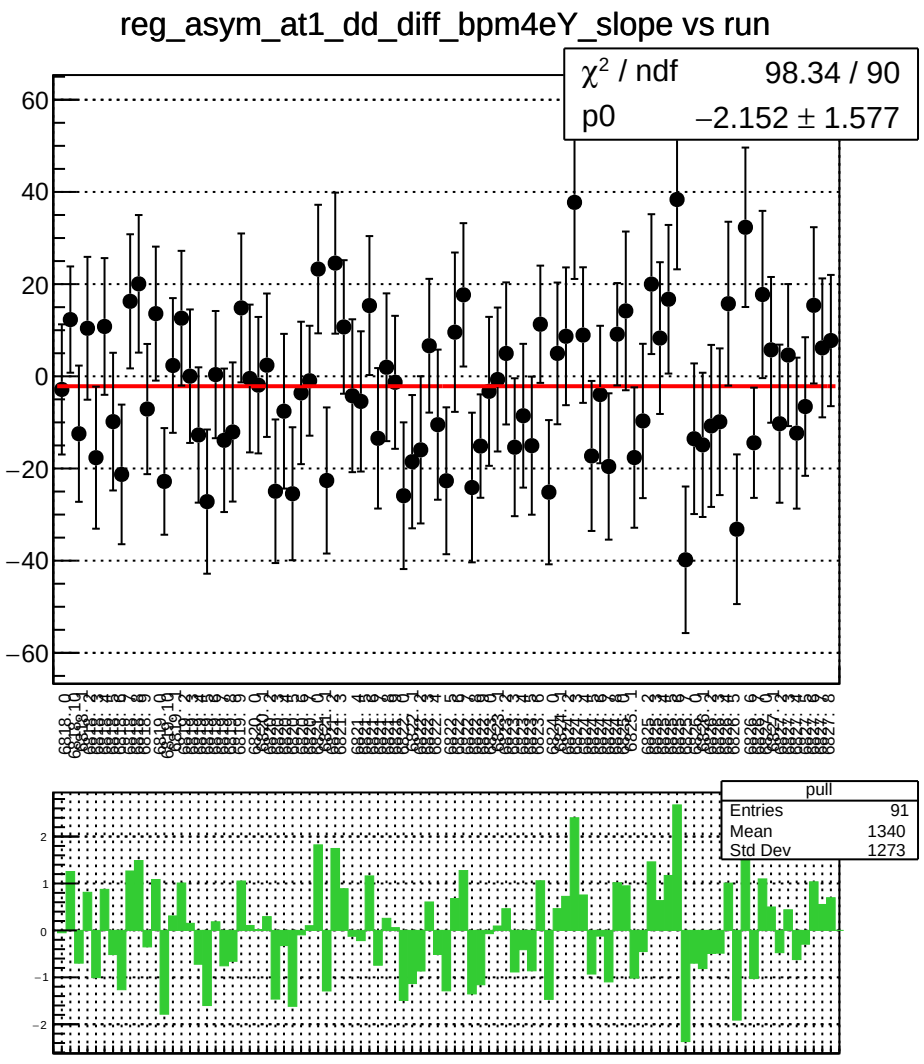

pull1D
Entries 91
Mean 0.004561
Std Dev 1.071

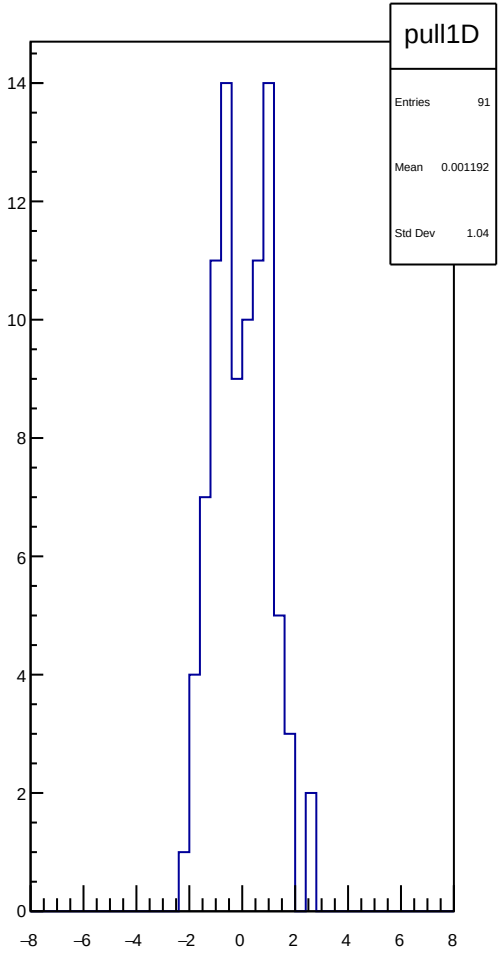

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 99.83 / 90
p0 2.848 ± 1.361
pull
Entries 91
Mean −390.1
Std Dev 521

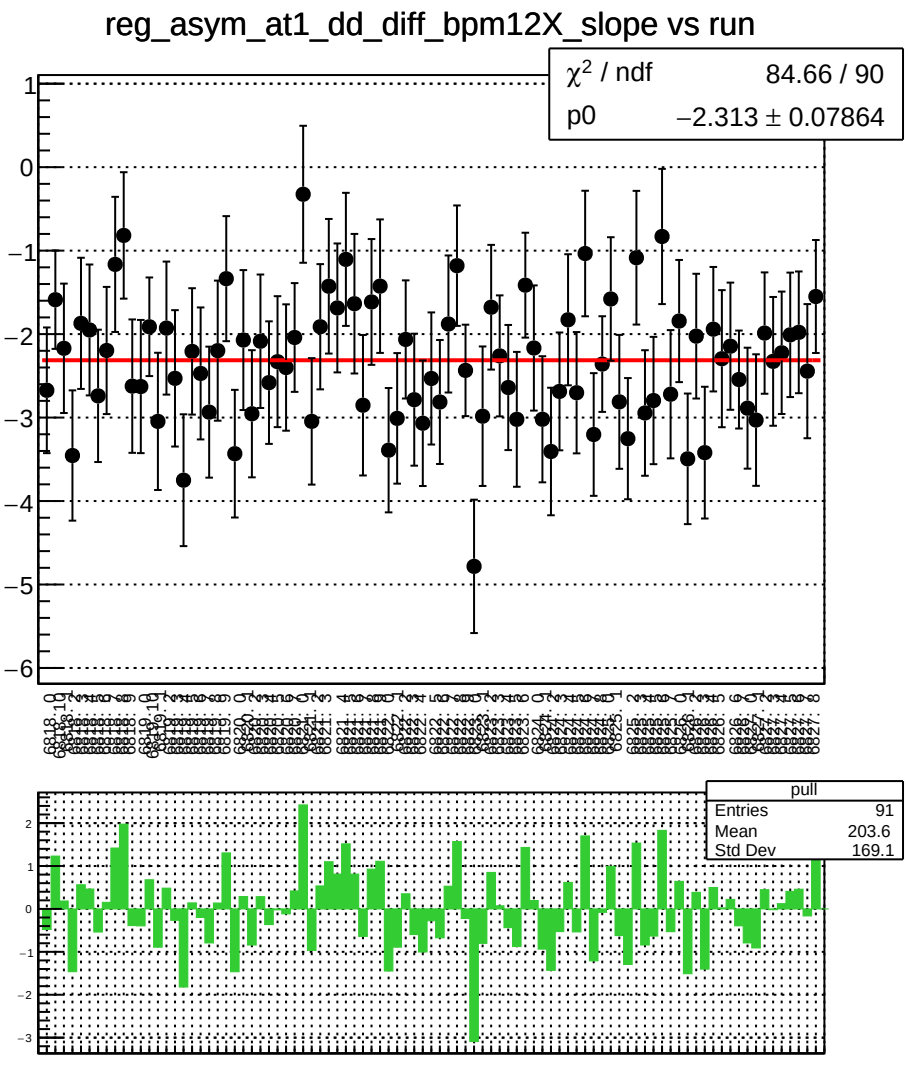

pull1D
Entries 91
Mean 0.0008819
Std Dev 1.047

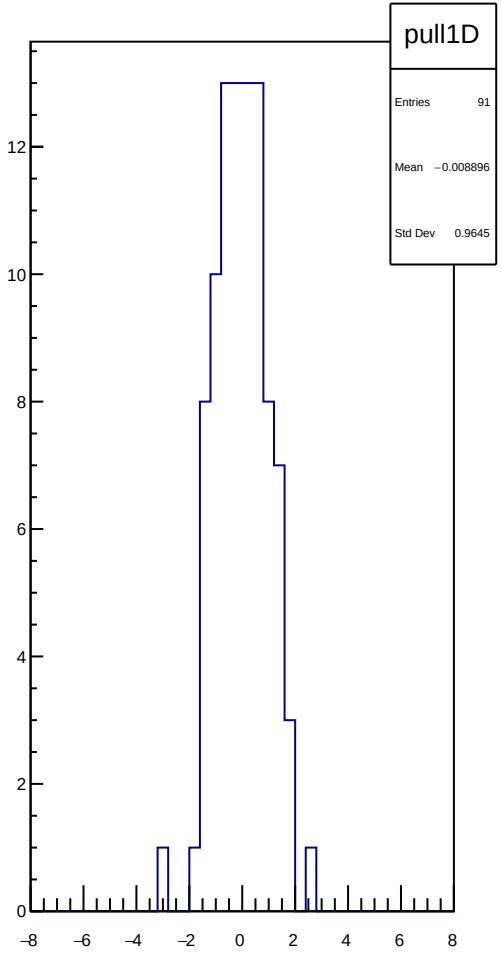

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 107.9 / 90
p0 38.5 ± 1.88
pull
Entries 91
Mean −62.47
Std Dev 178.1

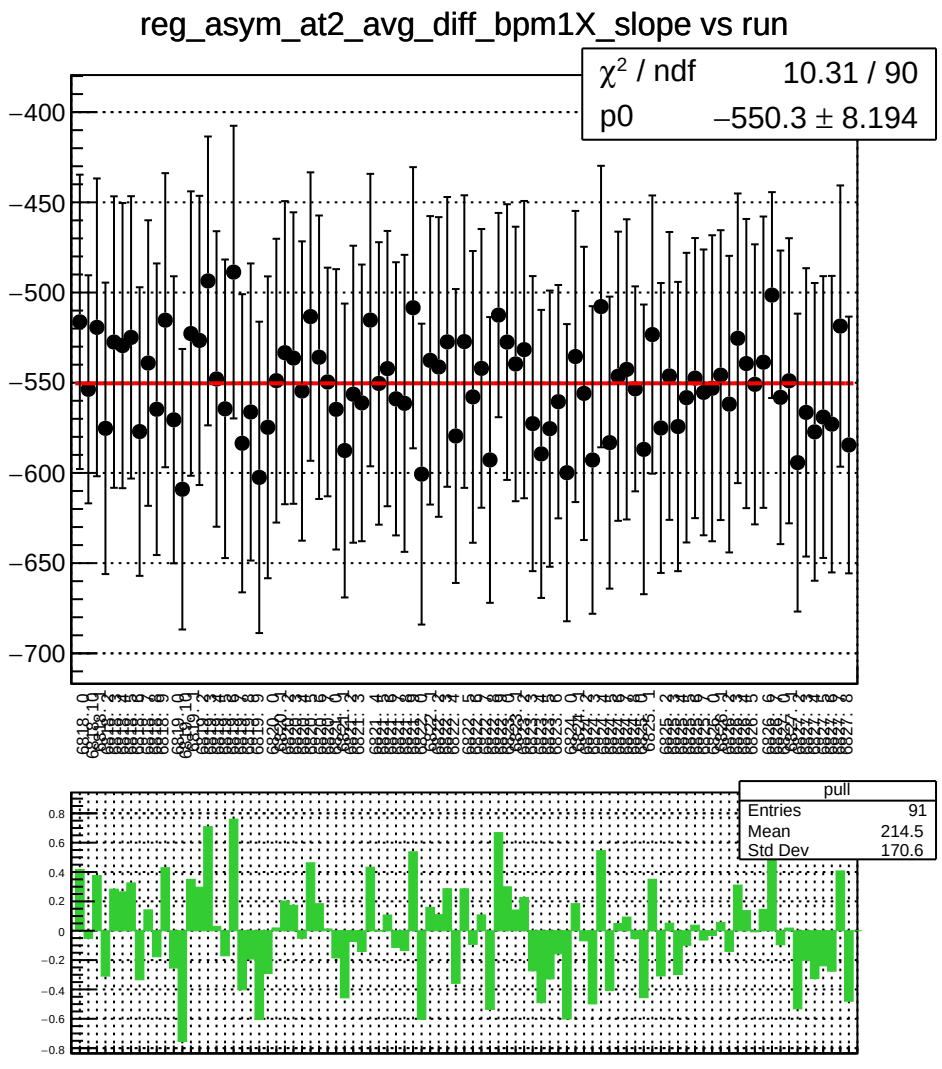

pull1D
Entries 91
Mean −0.004372
Std Dev 1.089

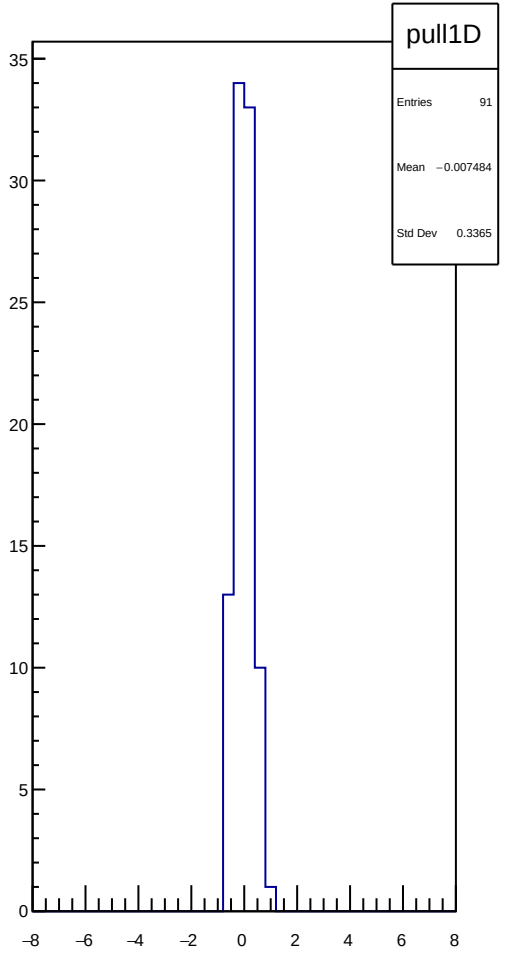

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 98.34 / 90
p0 −2.152 ± 1.577
pull
Entries 91
Mean 1340
Std Dev 1273

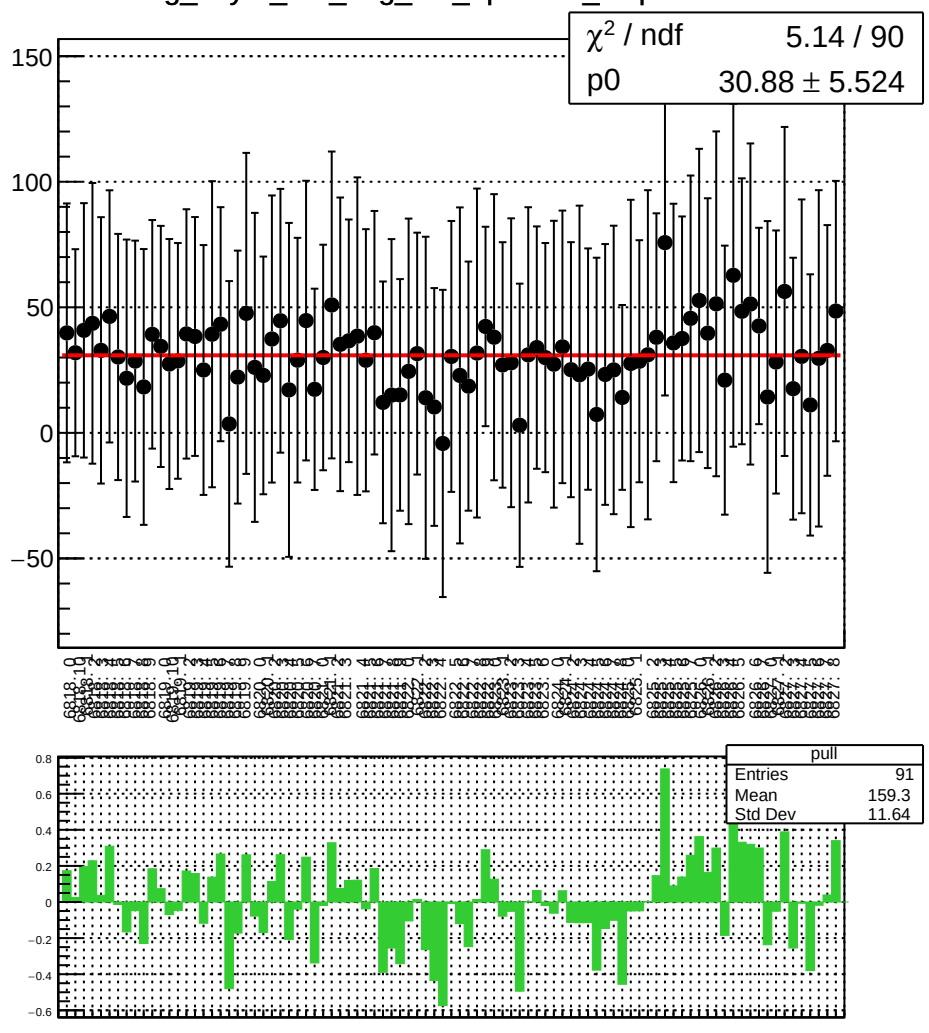

pull1D
Entries 91
Mean 0.001192
Std Dev 1.04

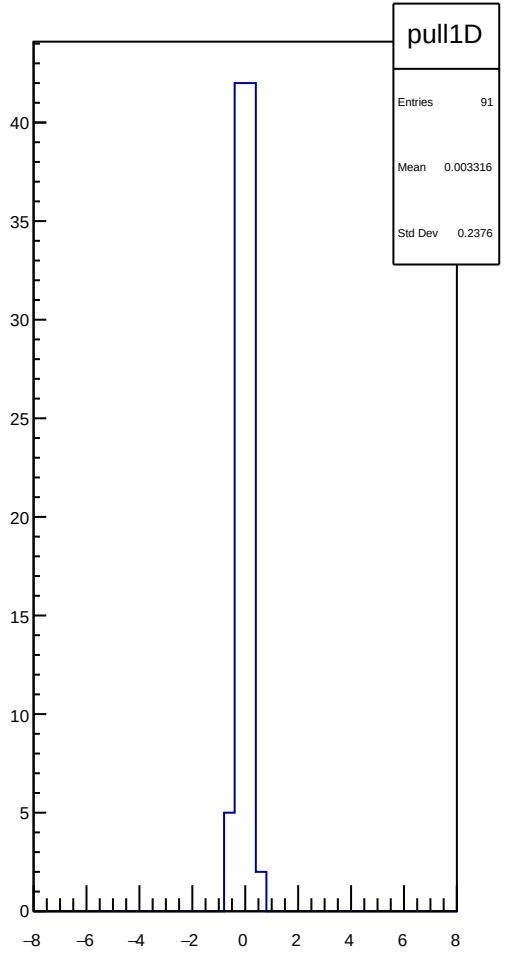

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 84.66 / 90
p0 −2.313 ± 0.07864
pull
Entries 91
Mean 203.6
Std Dev 169.1

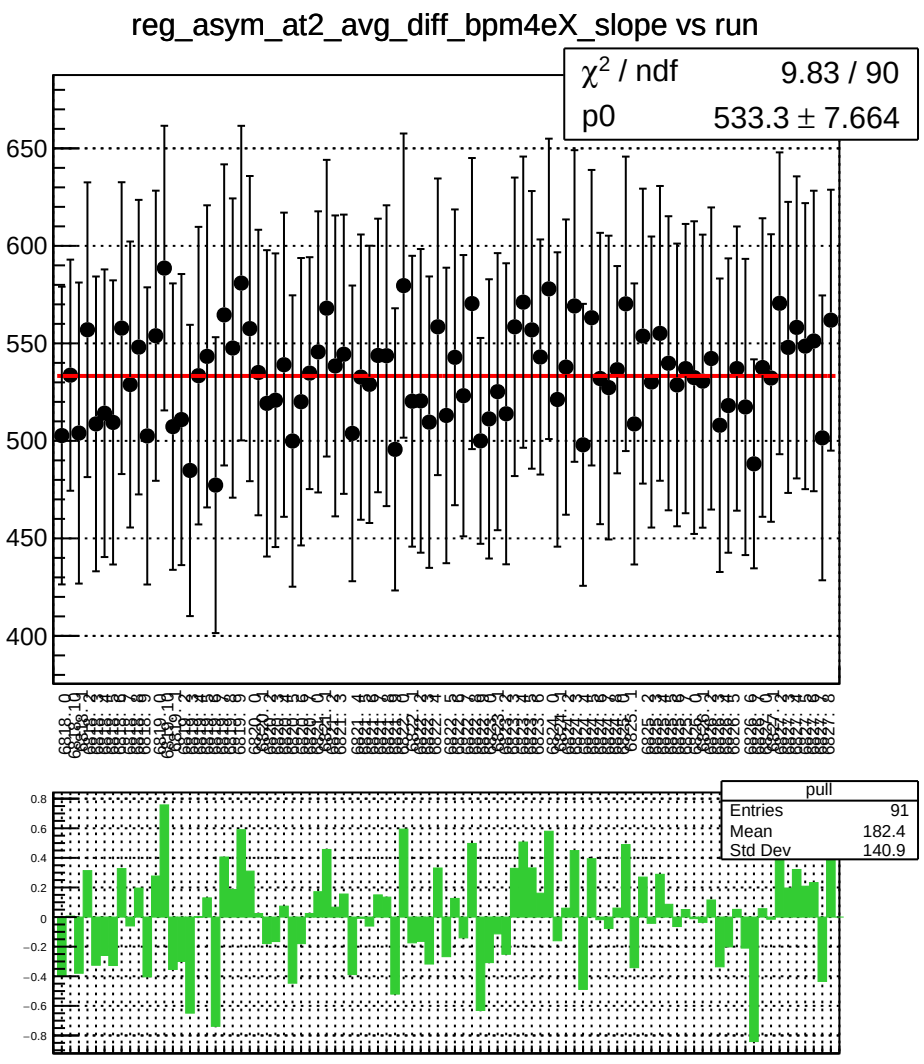

pull1D
Entries 91
Mean −0.008896
Std Dev 0.9645

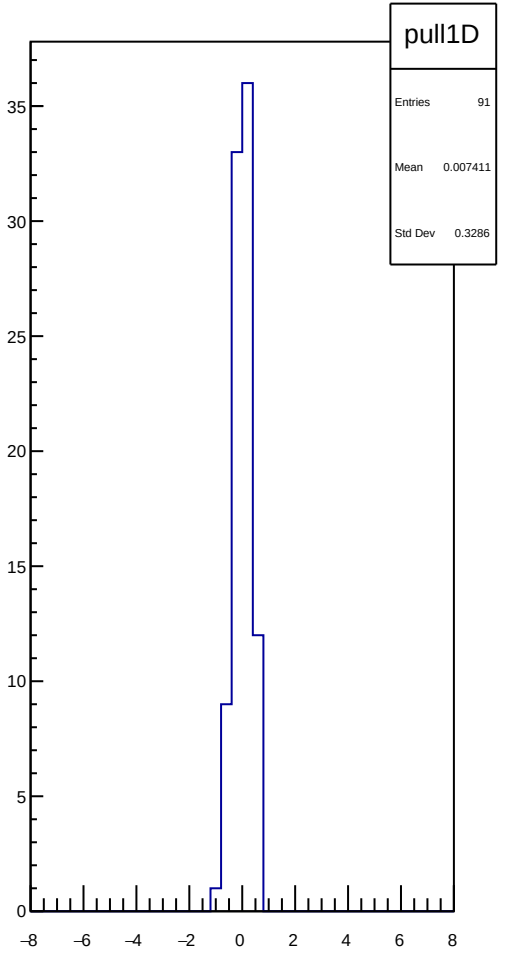

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.31 / 90
p0 −550.3 ± 8.194
−400
−450
−500
−550
−600
−650
−700
pull
Entries 91
Mean 214.5
Std Dev 170.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

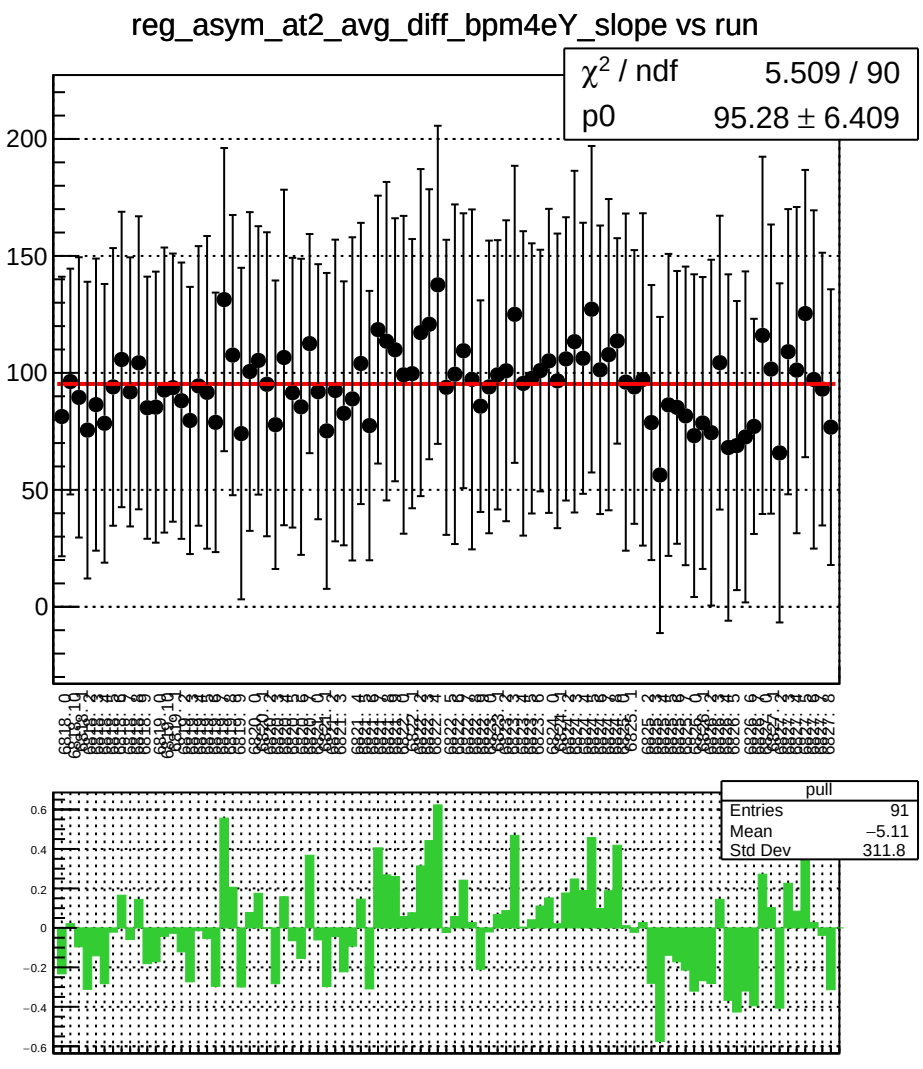

pull1D
Entries 91
Mean −0.007484
Std Dev 0.3365
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

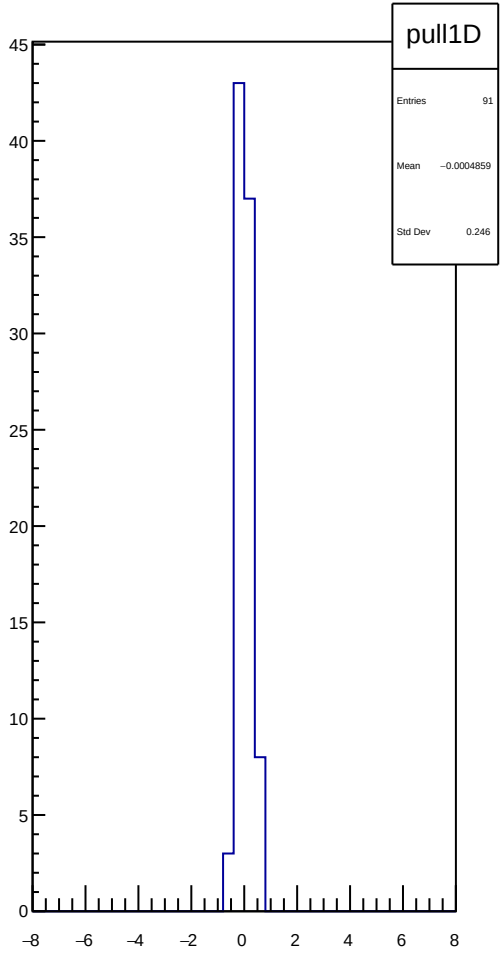

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.14 / 90
p0 30.88 ± 5.524
150
100
50
0
−50
pull
Entries 91
Mean 159.3
Std Dev 11.64
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

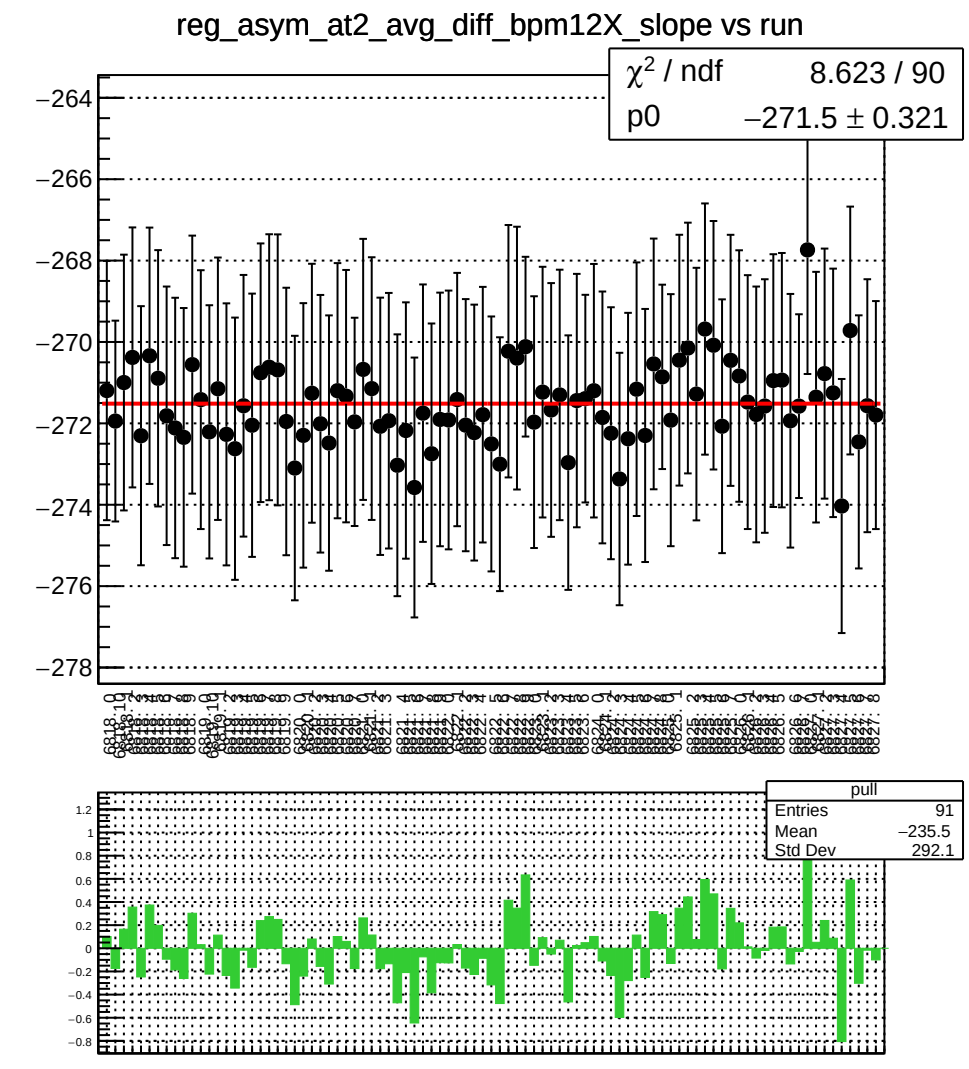

pull1D
Entries 91
Mean 0.003316
Std Dev 0.2376
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

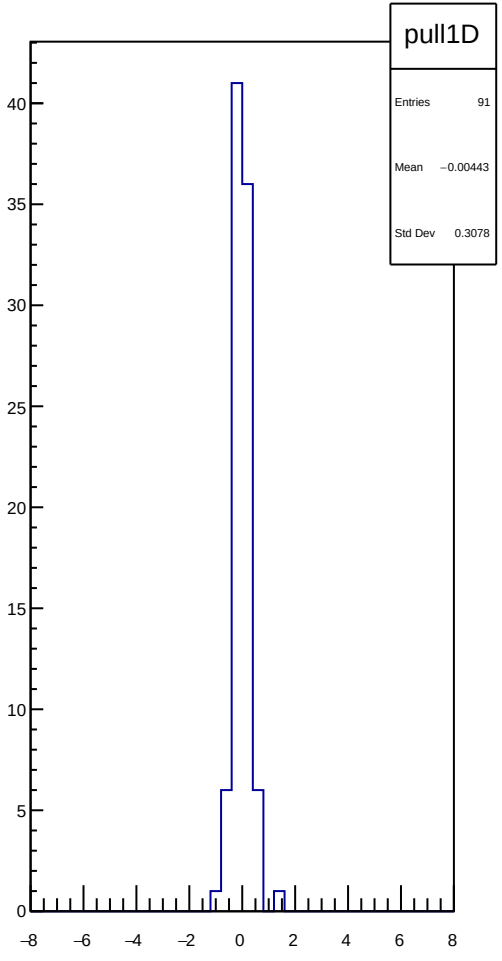

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 9.83 / 90
p0 533.3 ± 7.664
650
600
550
500
450
400
pull
Entries 91
Mean 182.4
Std Dev 140.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

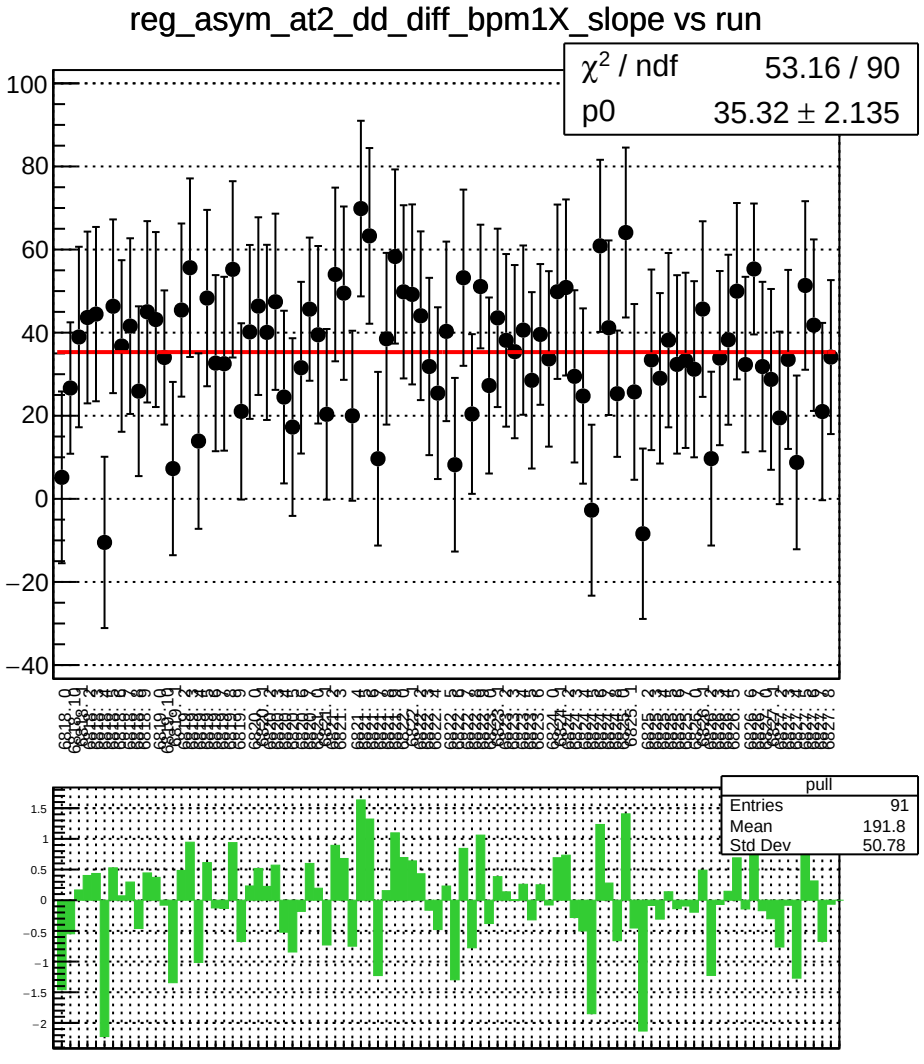

pull1D
Entries 91
Mean 0.007411
Std Dev 0.3286
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

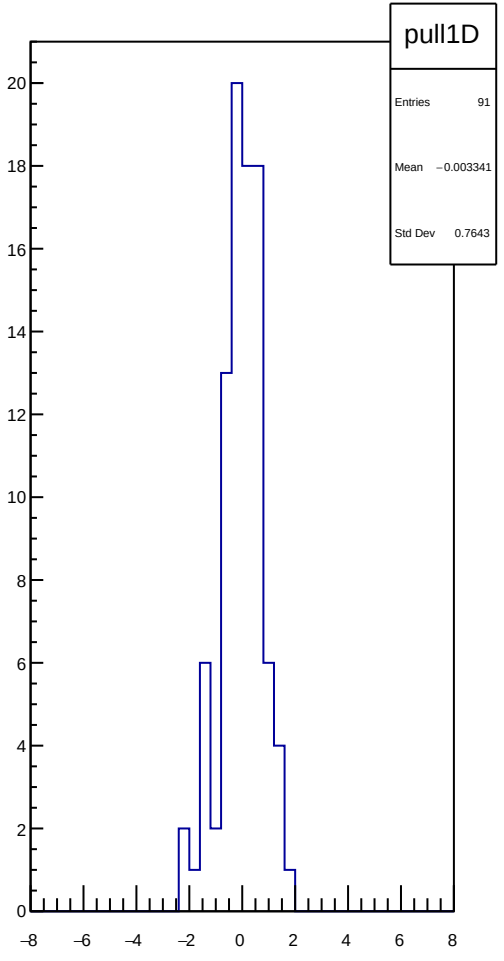

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.509 / 90
p0 95.28 ± 6.409
200
150
100
50
0
pull
Entries 91
Mean −5.11
Std Dev 311.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

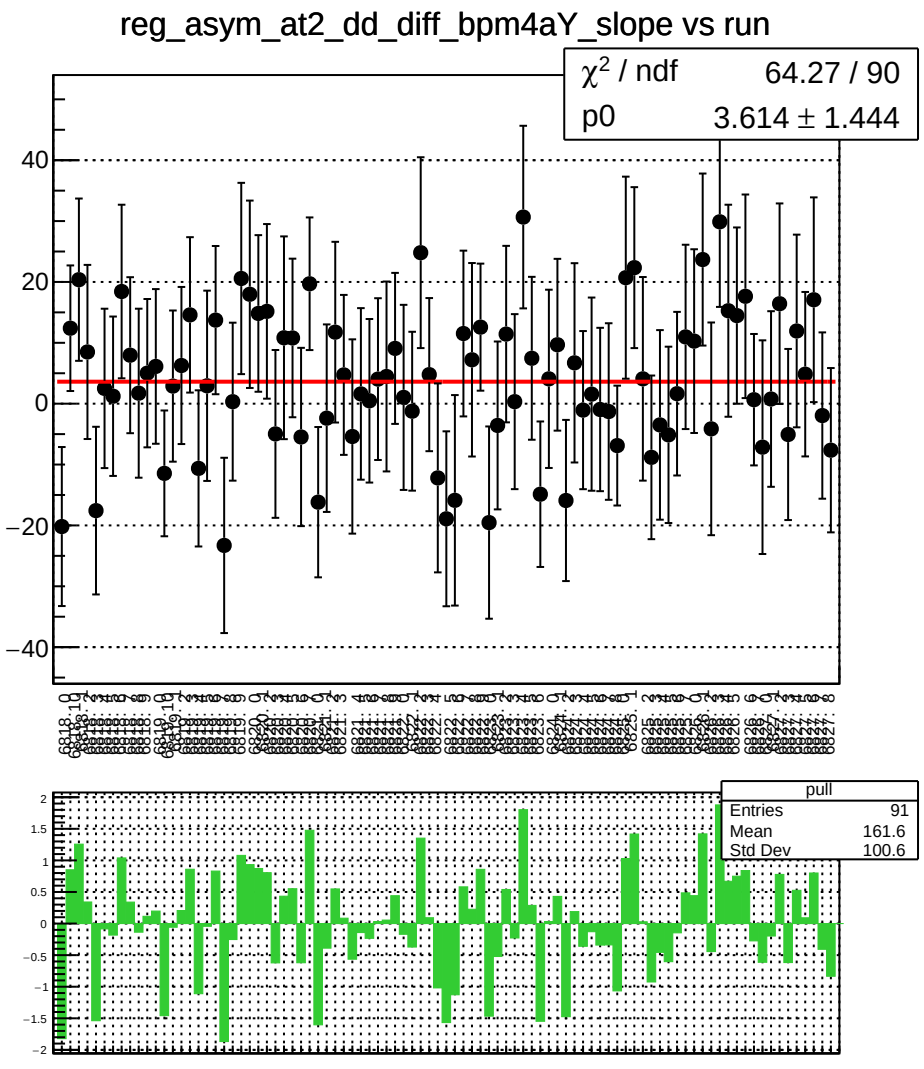

pull1D
Entries 91
Mean −0.0004859
Std Dev 0.246
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

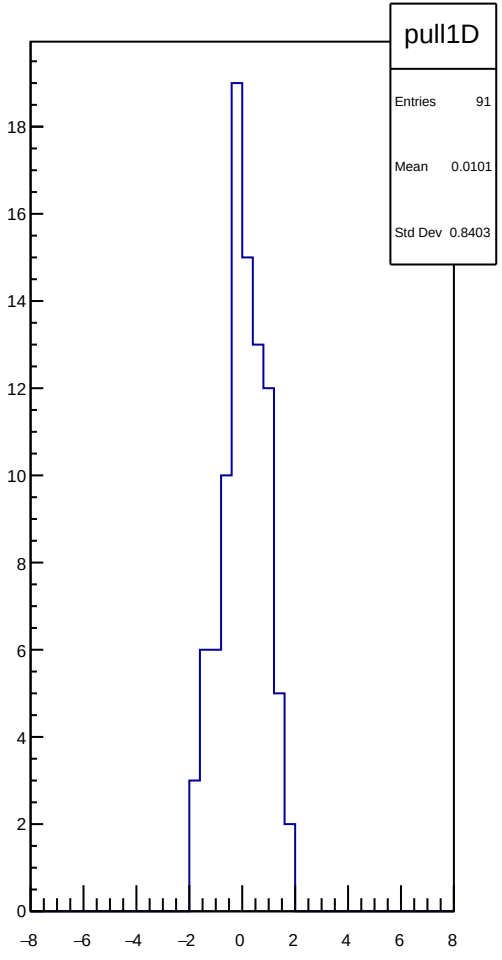

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.623 / 90
p0 −271.5 ± 0.321
pull
Entries 91
Mean −235.5
Std Dev 292.1

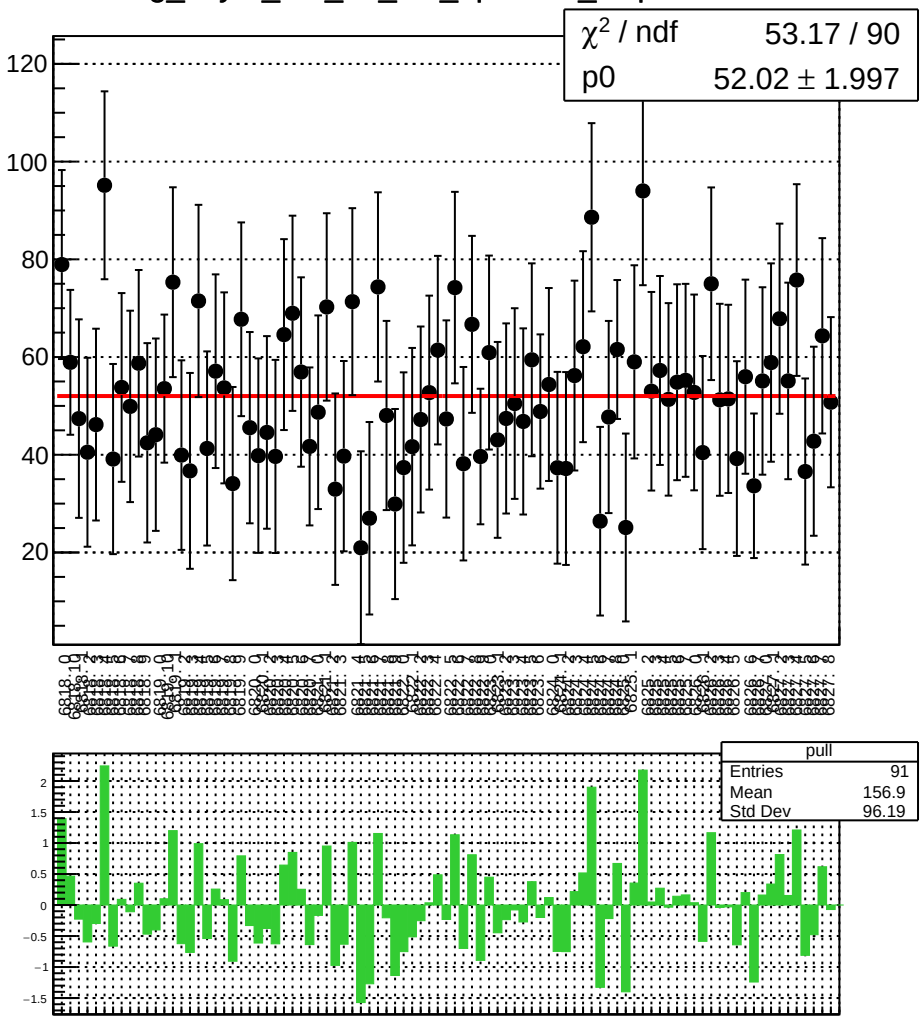

pull1D
Entries 91
Mean −0.00443
Std Dev 0.3078

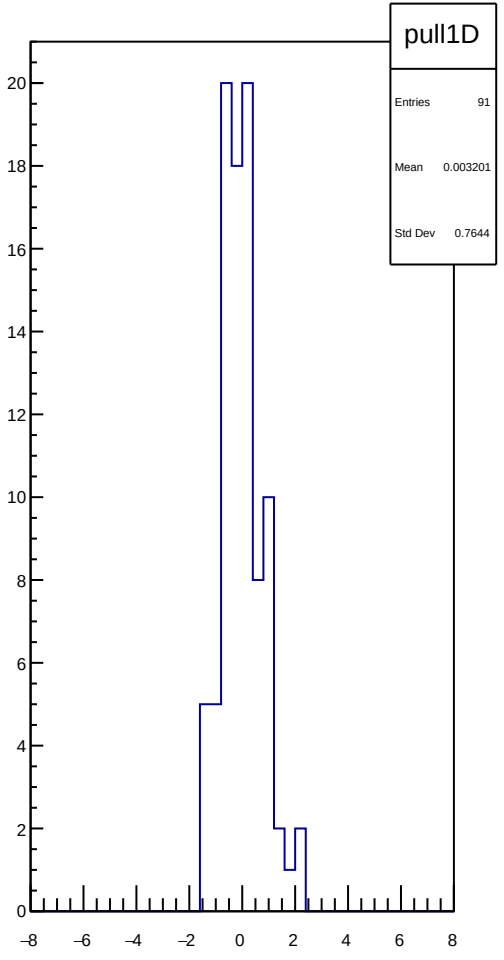

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 53.16 / 90
p0 35.32 ± 2.135
pull
Entries 91
Mean 191.8
Std Dev 50.78

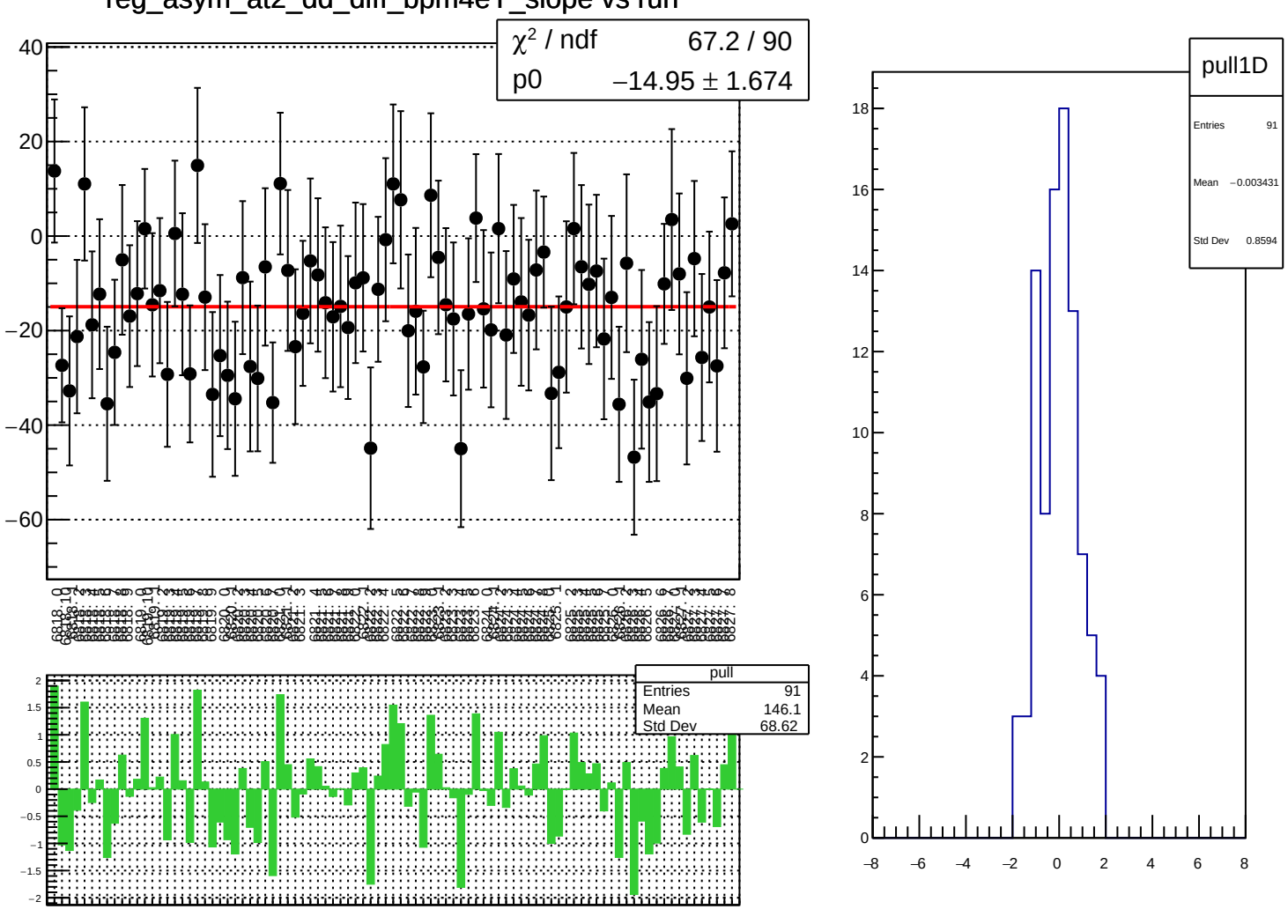

pull1D
Entries 91
Mean −0.003341
Std Dev 0.7643

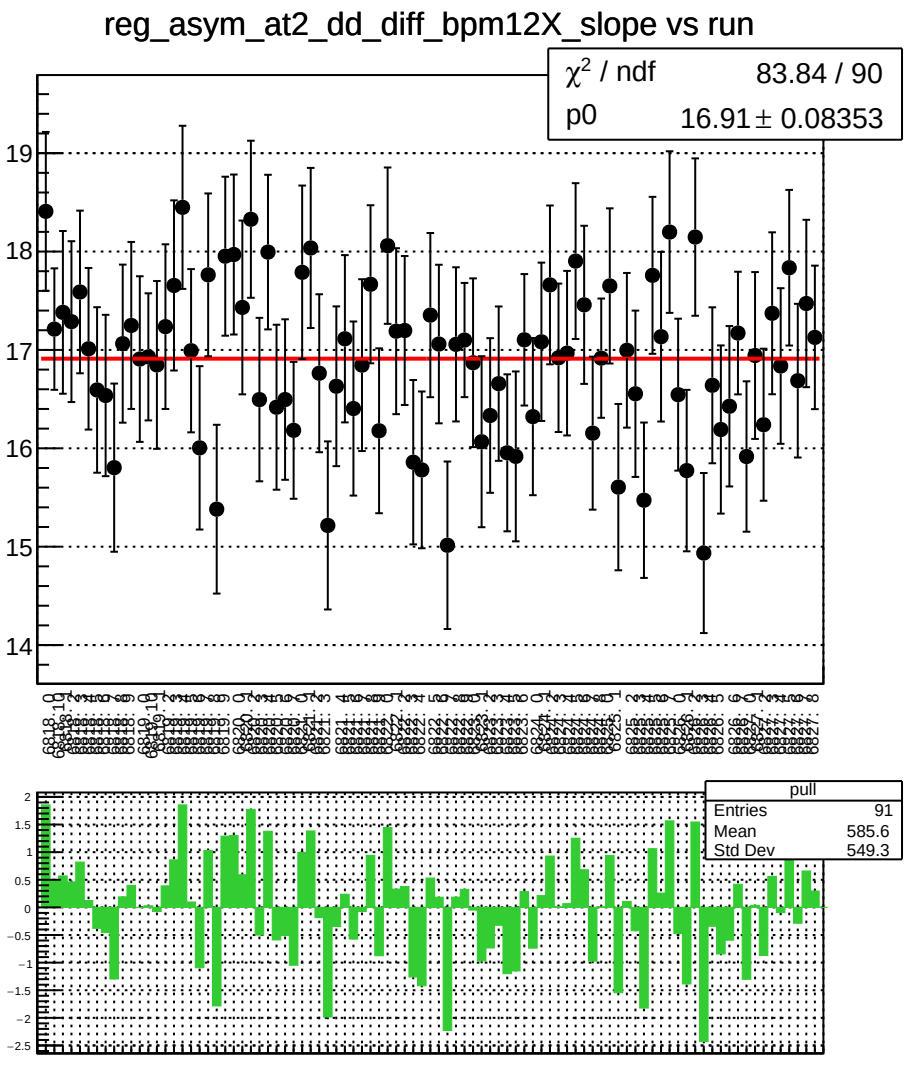

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.27 / 90
p0 3.614 ± 1.444
pull
Entries 91
Mean 161.6
Std Dev 100.6

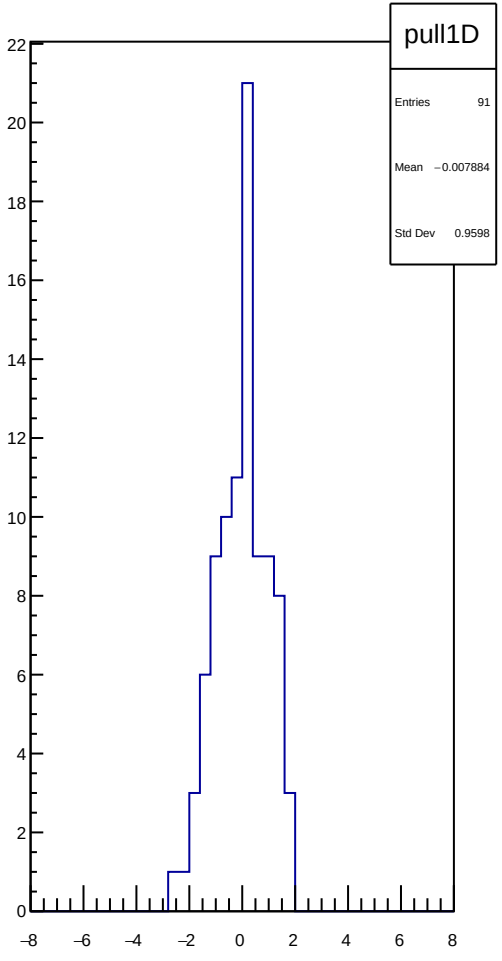

pull1D
Entries 91
Mean 0.0101
Std Dev 0.8403

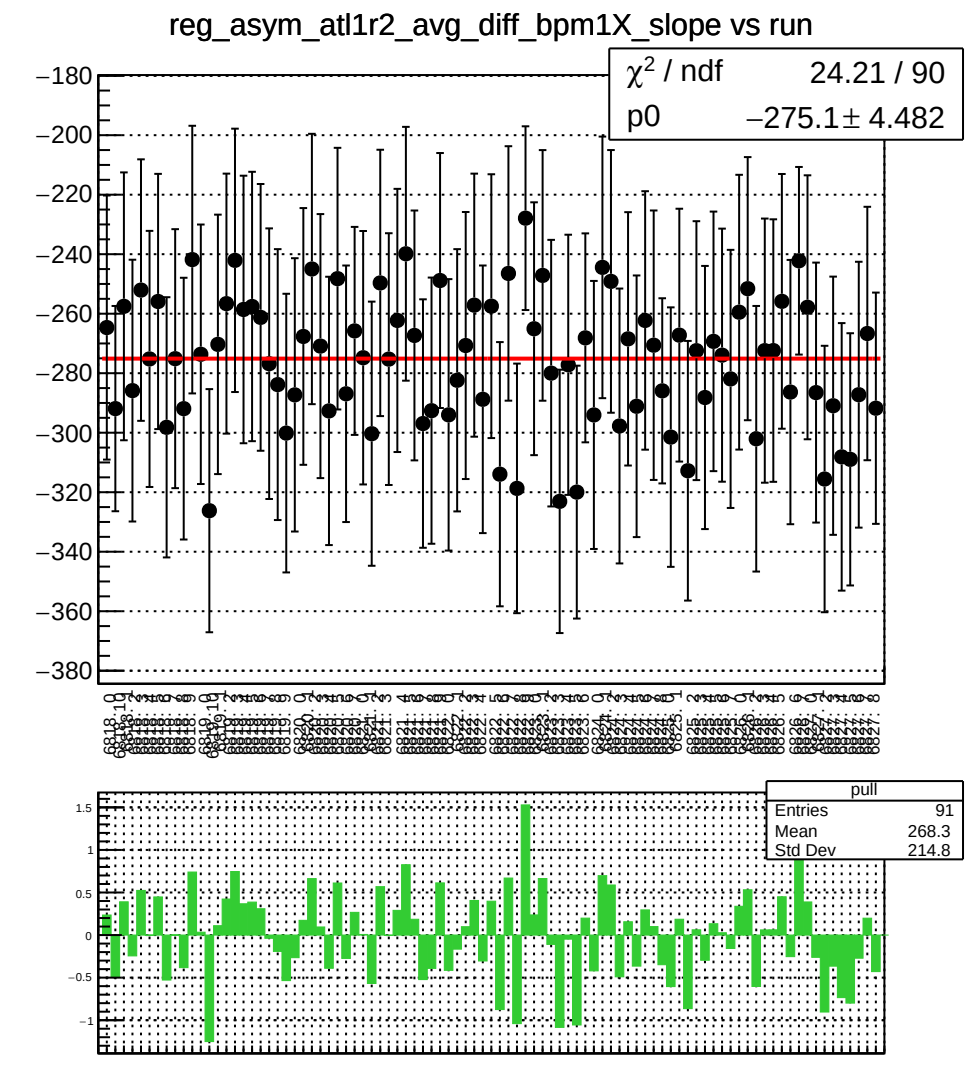

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.17 / 90
p0 52.02 ± 1.997
pull
Entries 91
Mean 156.9
Std Dev 96.19

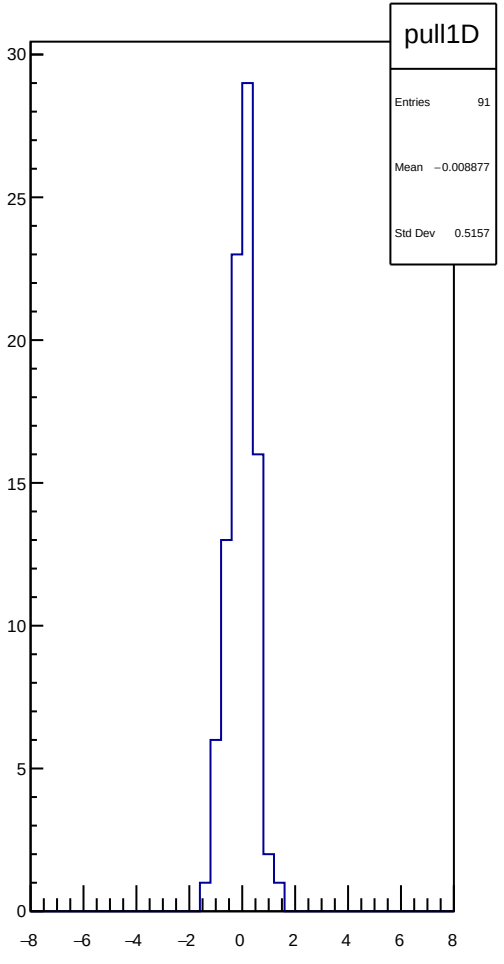

pull1D
Entries 91
Mean 0.003201
Std Dev 0.7644

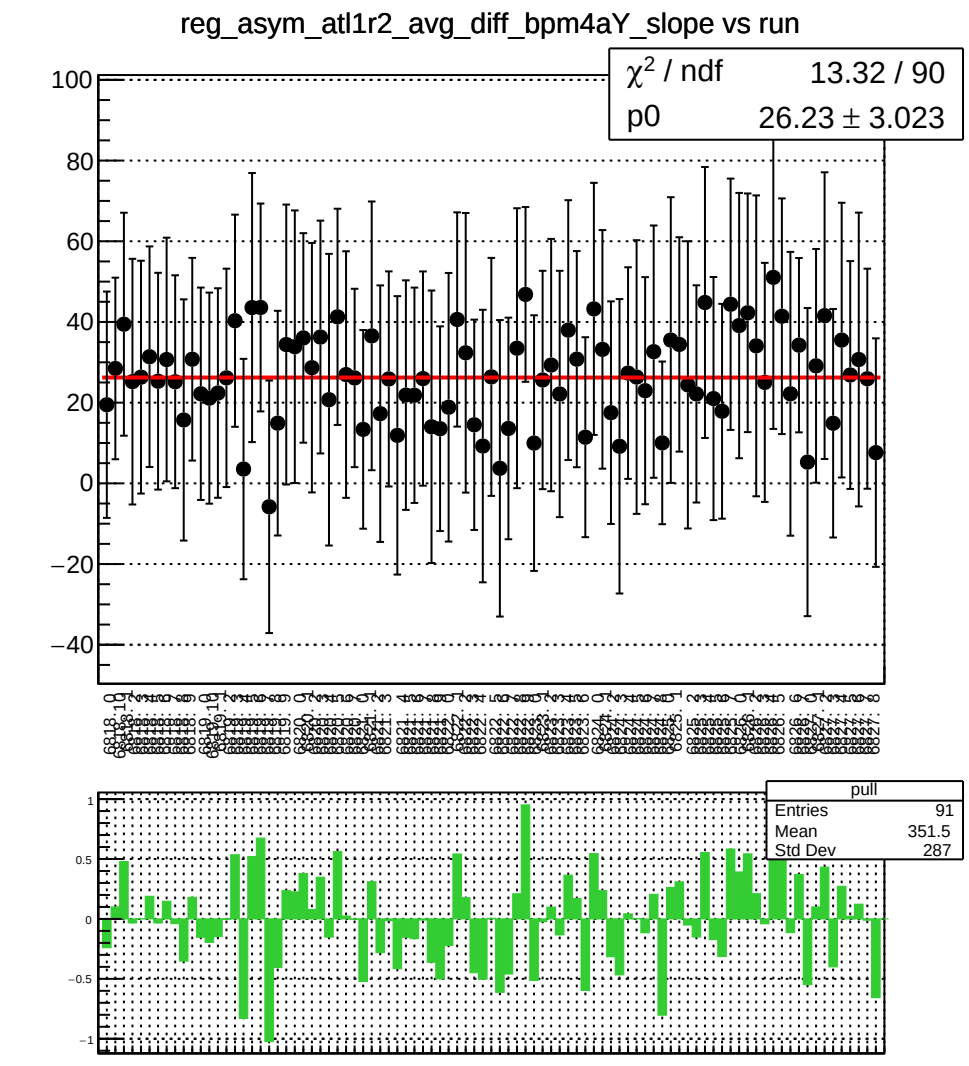

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.2 / 90
p0 −14.95 ± 1.674
pull
Entries 91
Mean 146.1
Std Dev 68.62
pull1D
Entries 91
Mean −0.003431
Std Dev 0.8594

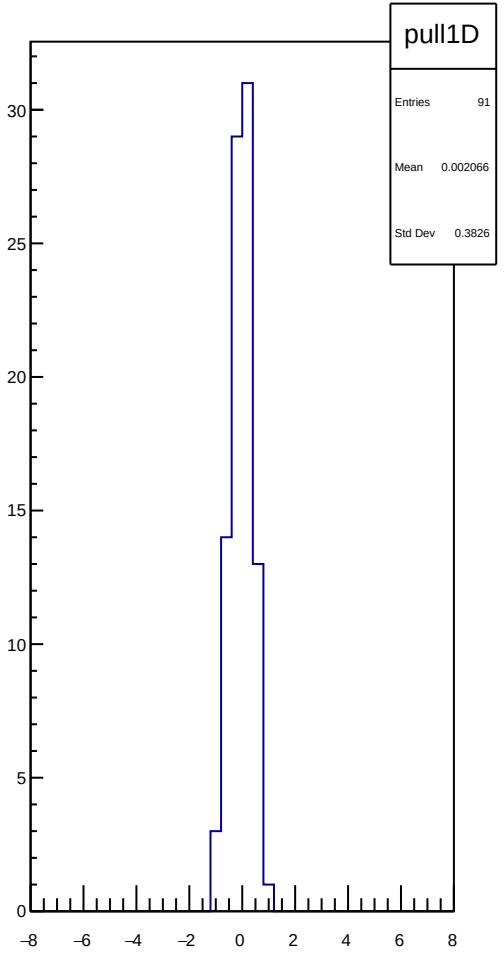

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 83.84 / 90
p0 16.91 ± 0.08353
pull
Entries 91
Mean 585.6
Std Dev 549.3

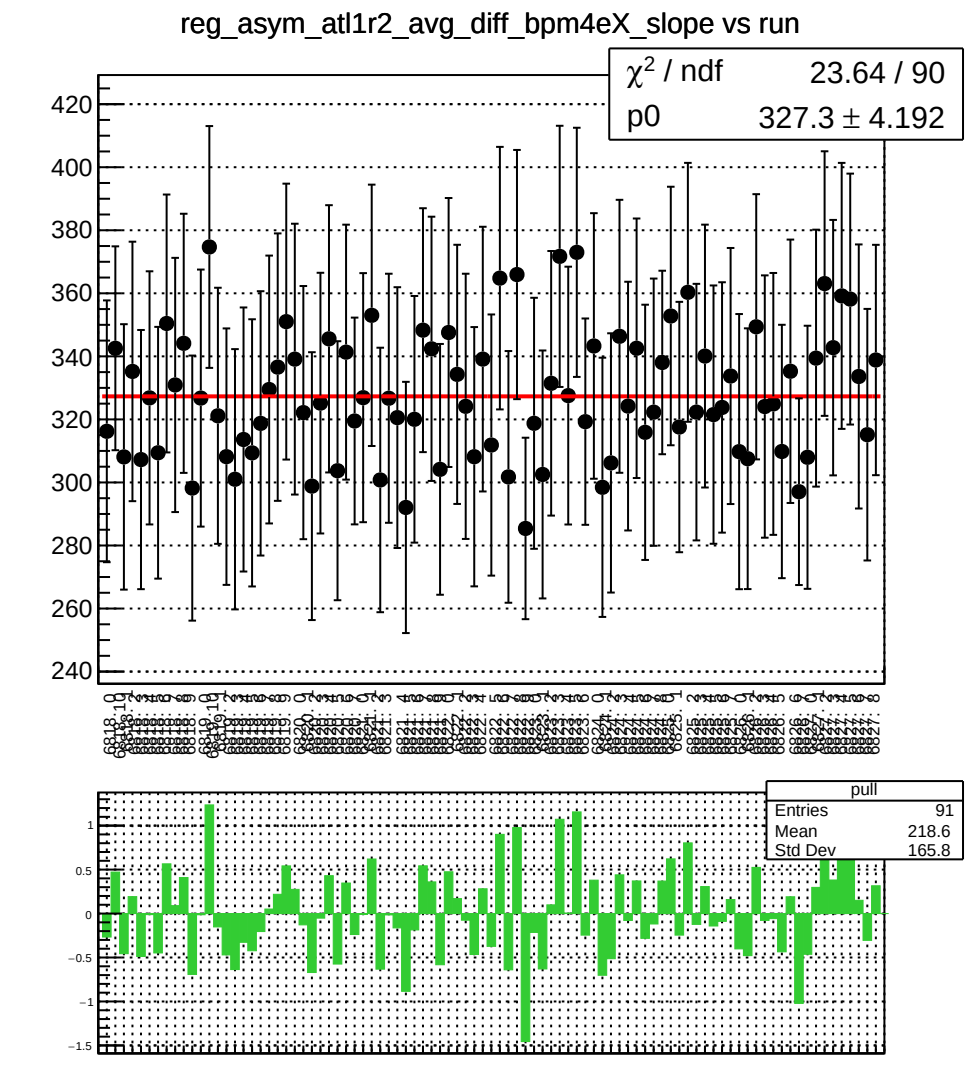

pull1D
Entries 91
Mean −0.007884
Std Dev 0.9598

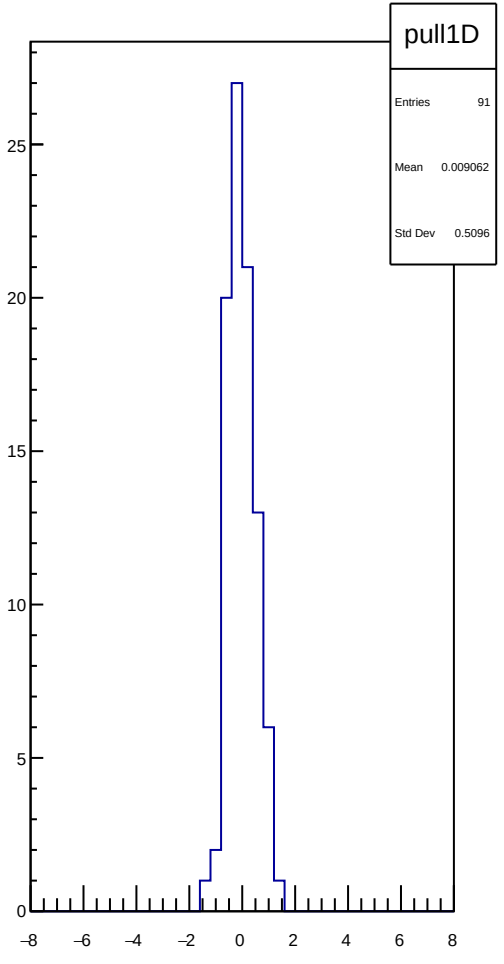

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 24.21 / 90
p0 −275.1 ± 4.482
pull
Entries 91
Mean 268.3
Std Dev 214.8

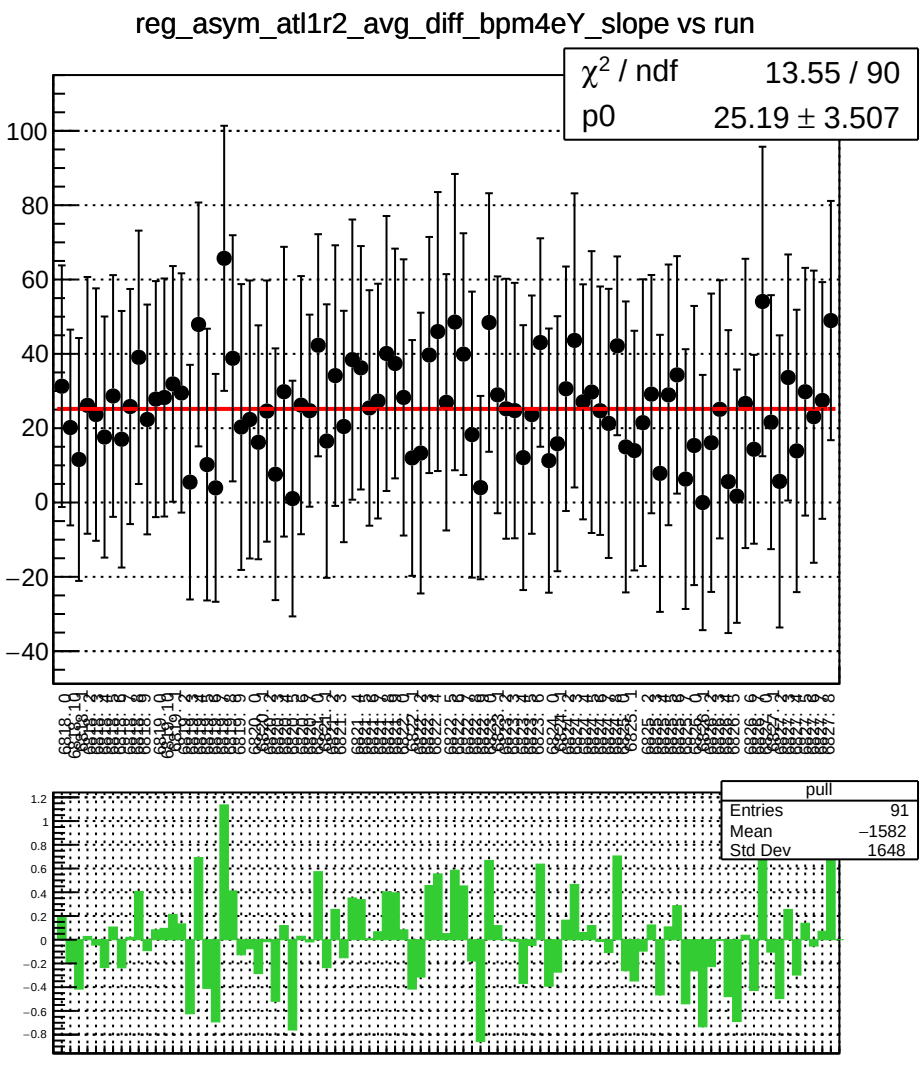

pull1D
Entries 91
Mean −0.008877
Std Dev 0.5157

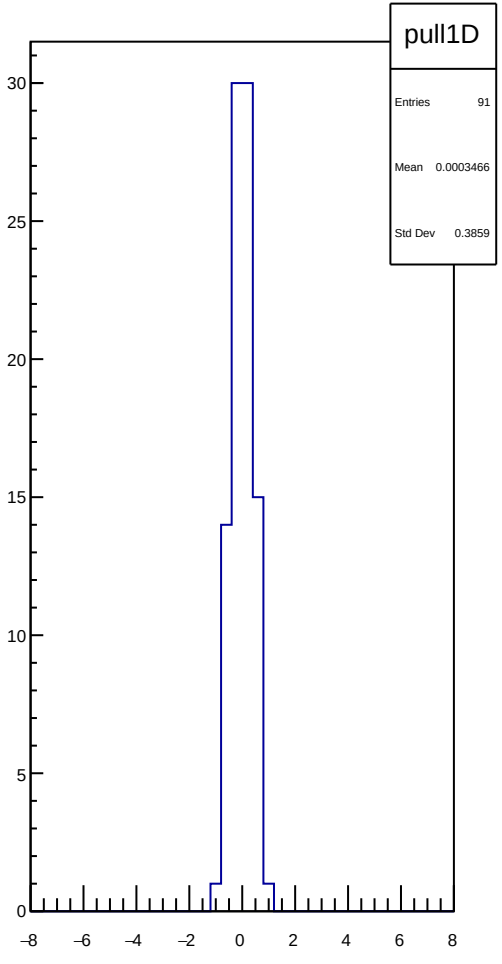

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.32 / 90
p0 26.23 ± 3.023
pull
Entries 91
Mean 351.5
Std Dev 287

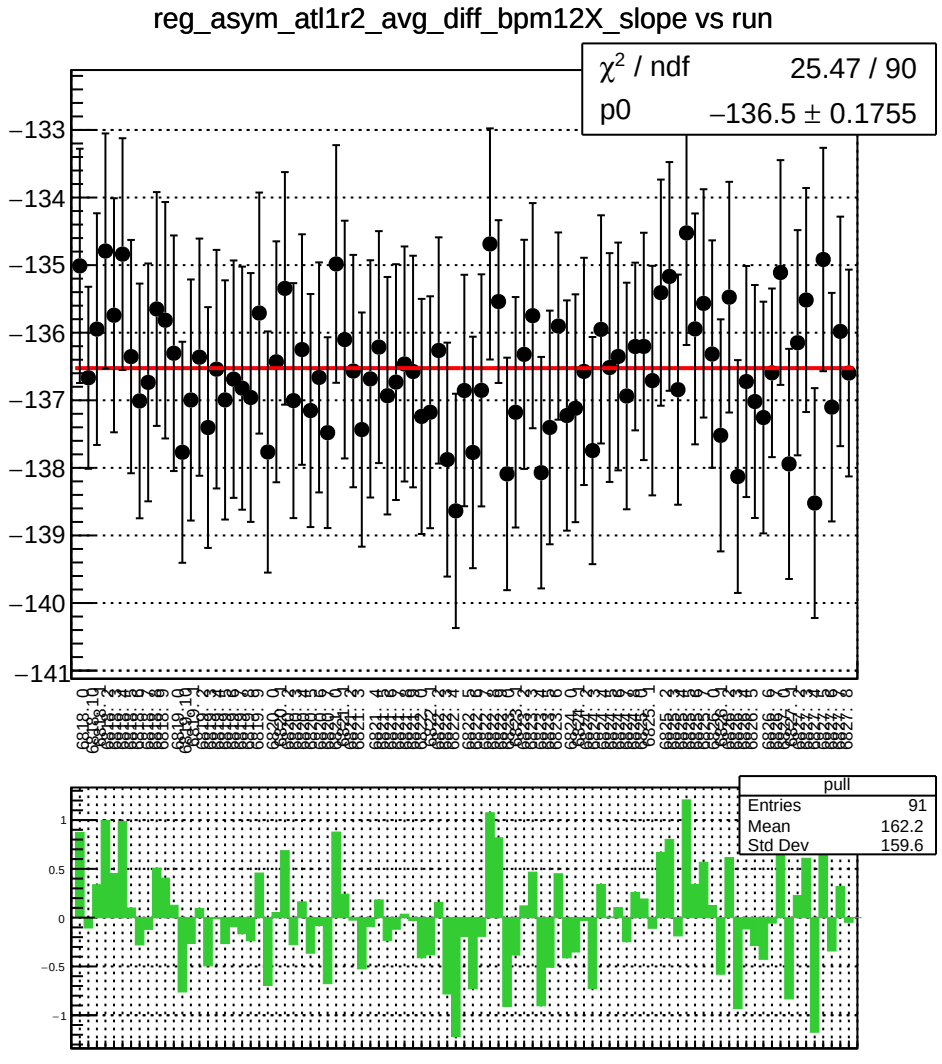

pull1D
Entries 91
Mean 0.002066
Std Dev 0.3826

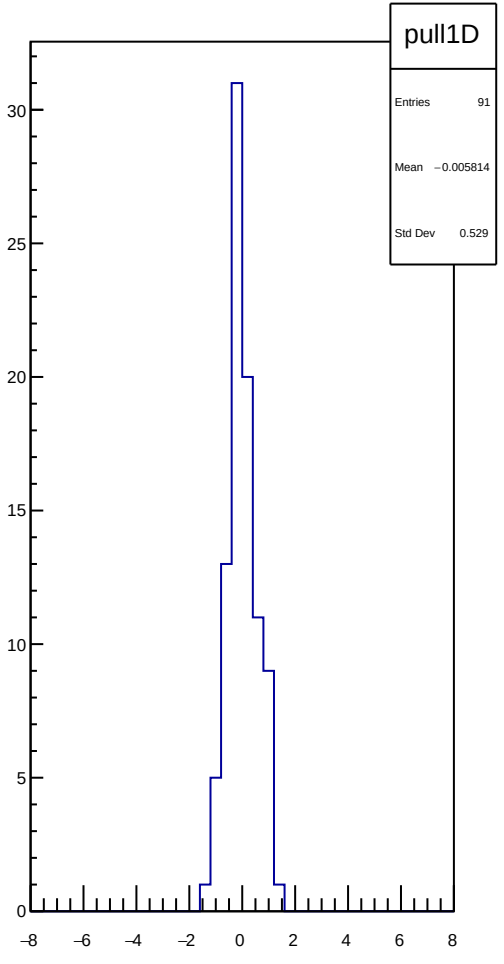

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.64 / 90
p0 327.3 ± 4.192
pull
Entries 91
Mean 218.6
Std Dev 165.8

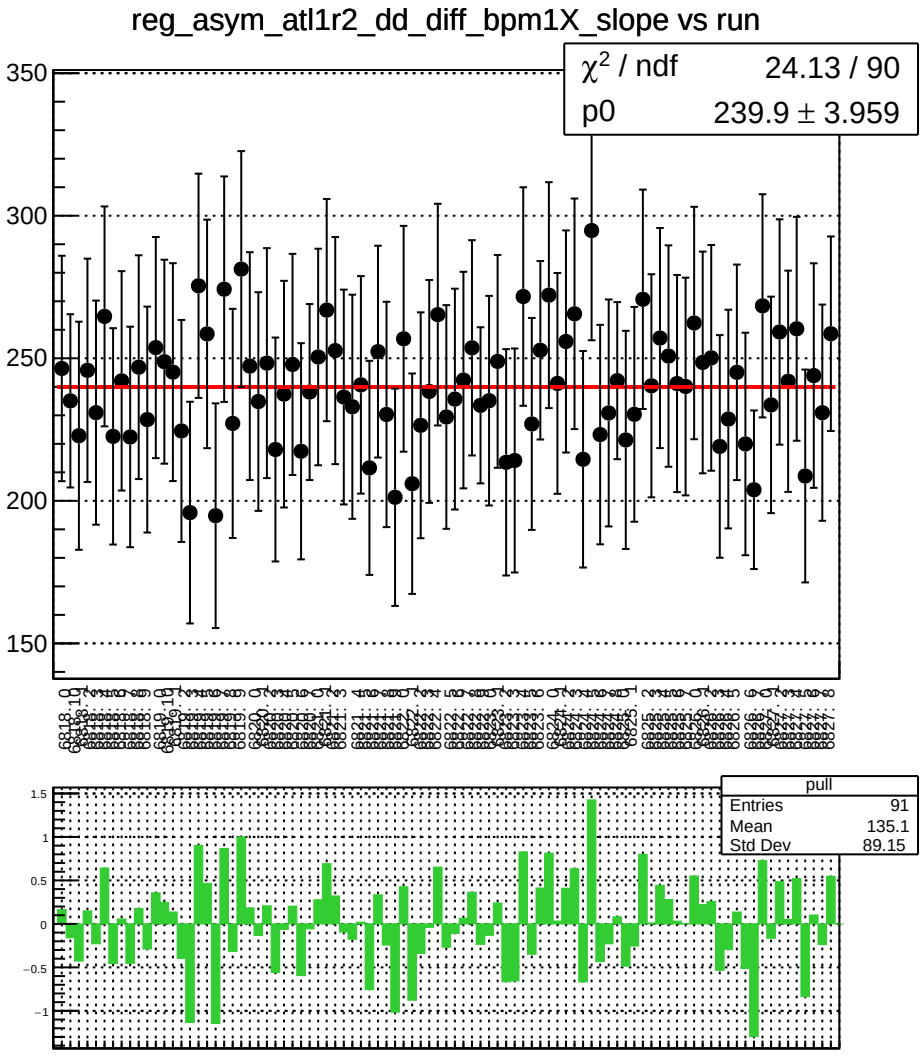

pull1D
Entries 91
Mean 0.009062
Std Dev 0.5096

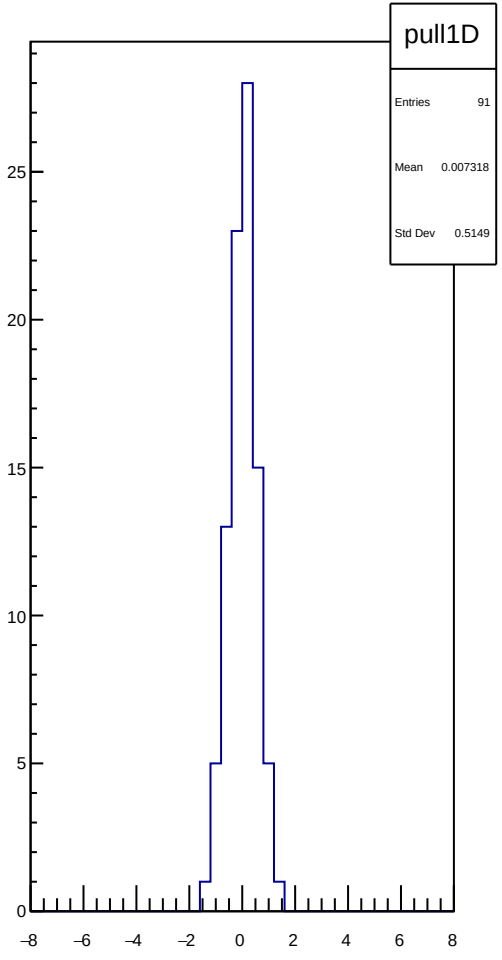

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.55 / 90
p0 25.19 ± 3.507
pull
Entries 91
Mean −1582
Std Dev 1648

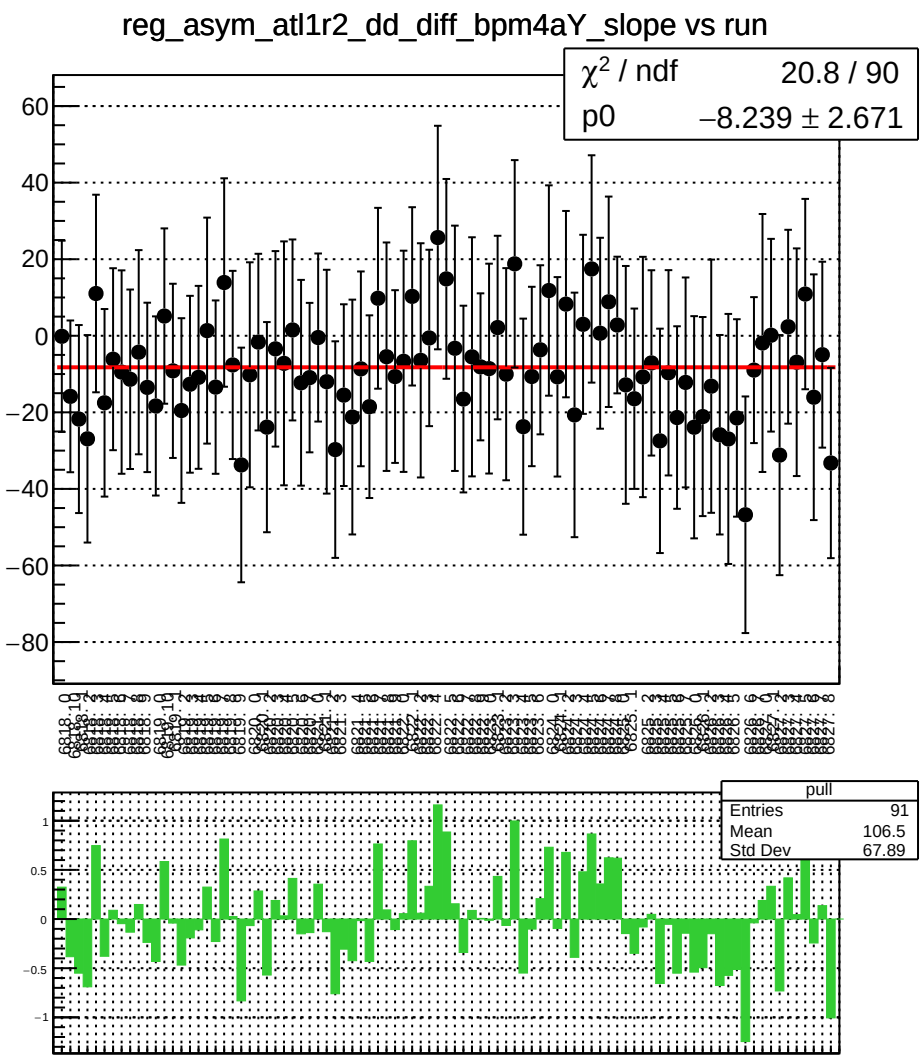

pull1D
Entries 91
Mean 0.0003466
Std Dev 0.3859

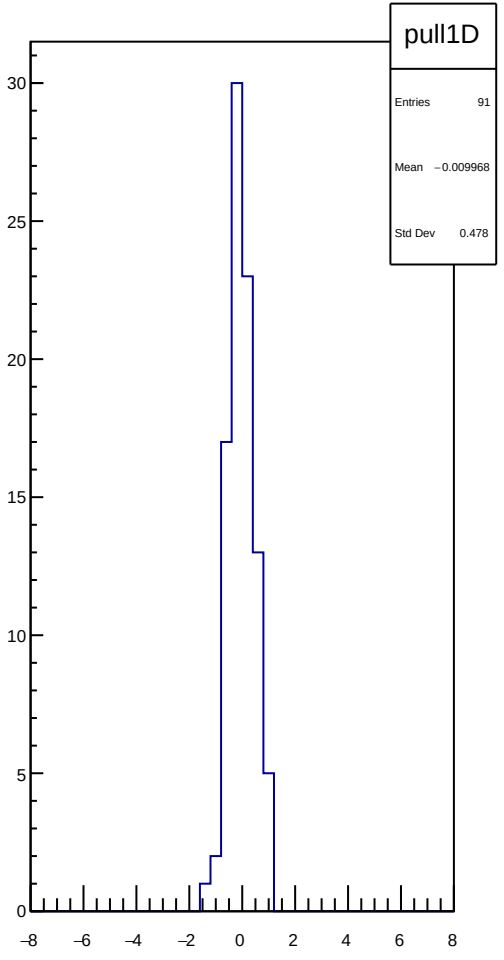

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 25.47 / 90
p0 −136.5 ± 0.1755
pull
Entries 91
Mean 162.2
Std Dev 159.6

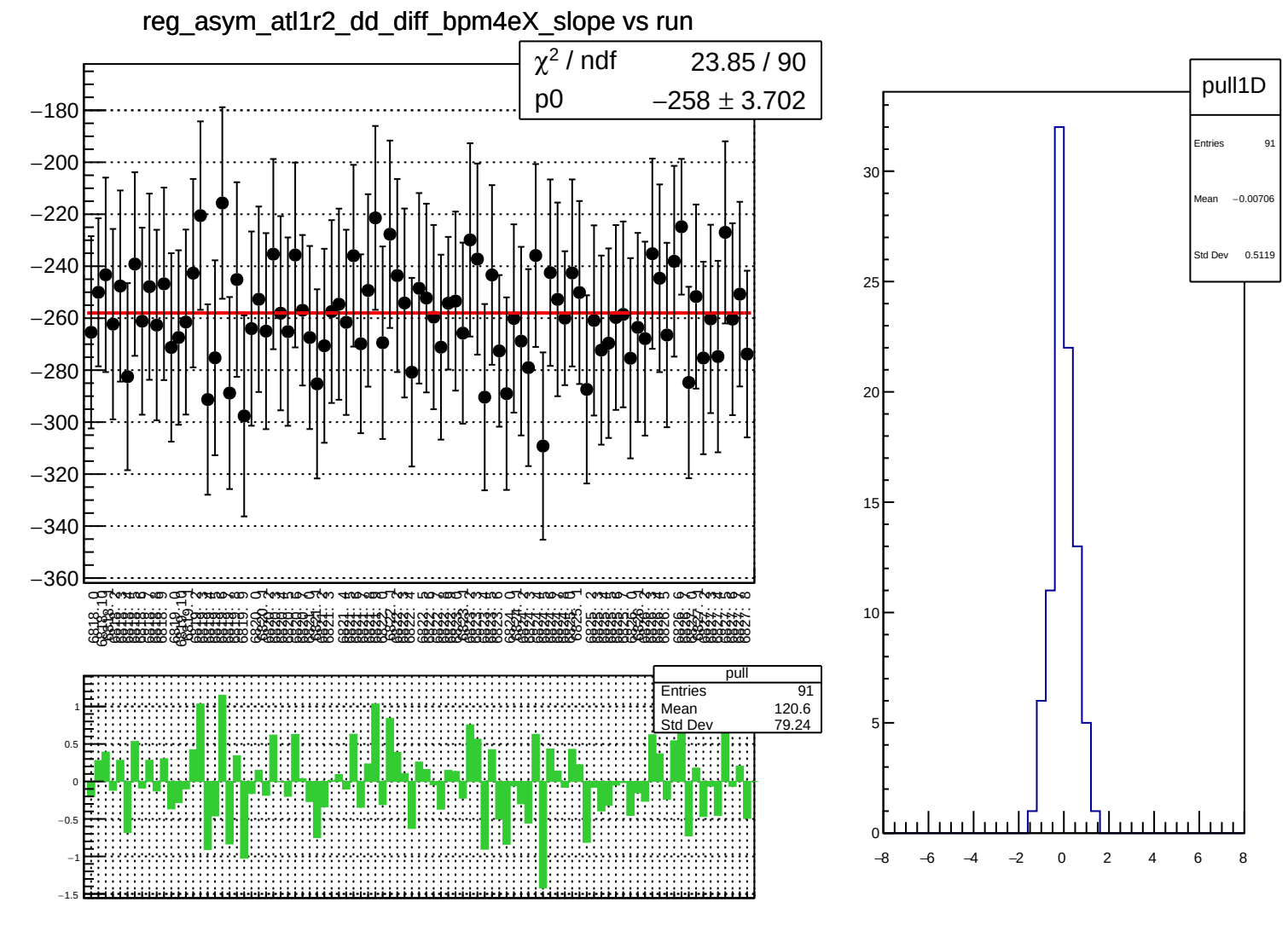

pull1D
Entries 91
Mean −0.005814
Std Dev 0.529

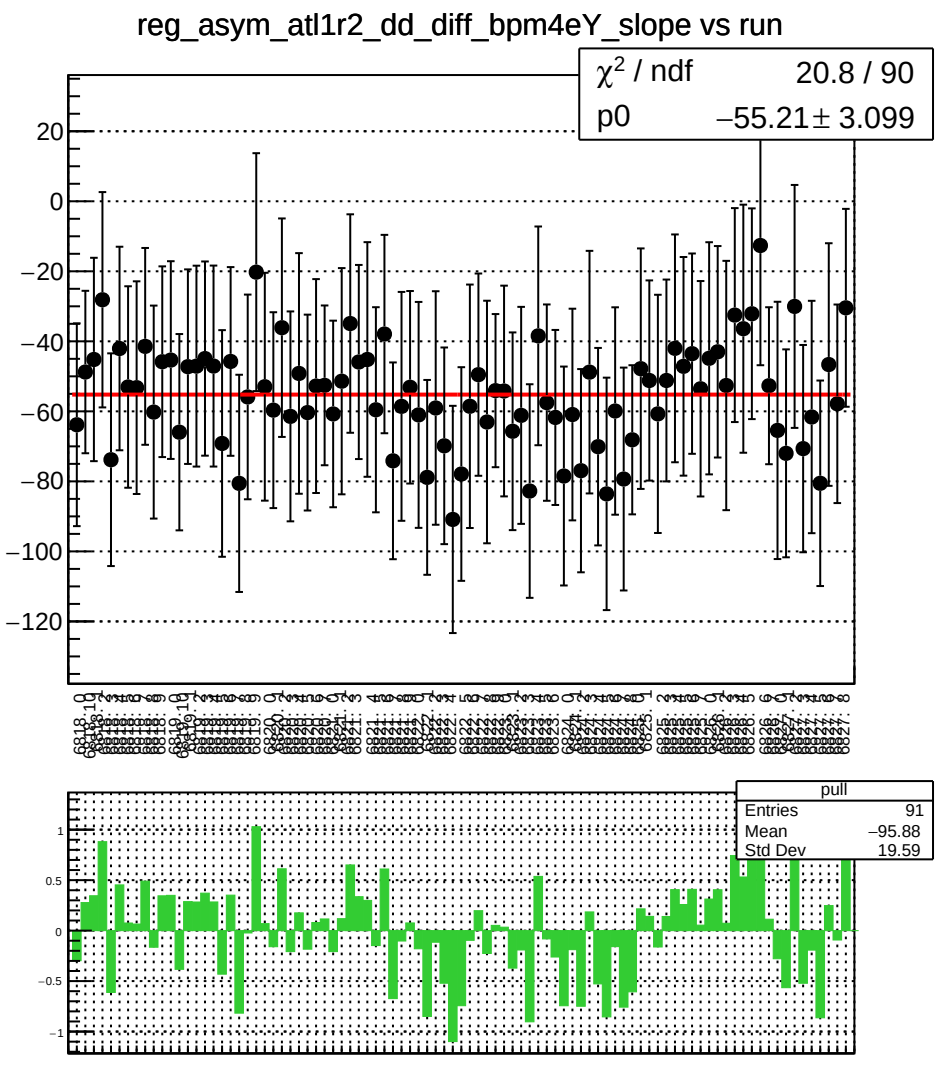

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 24.13 / 90
p0 239.9 ± 3.959
350
300
250
200
150
pull
Entries 91
Mean 135.1
Std Dev 89.15
1.5
1
0.5
0
−0.5
−1

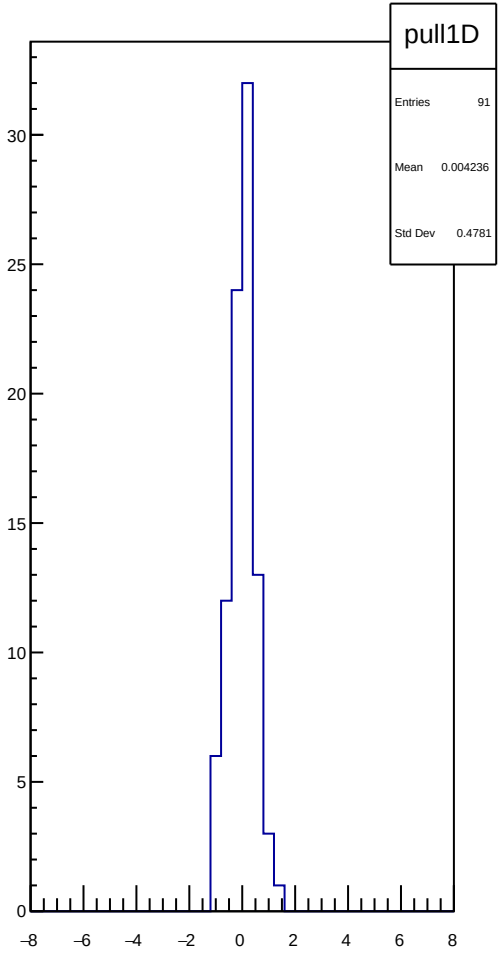

pull1D
Entries 91
Mean 0.007318
Std Dev 0.5149
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

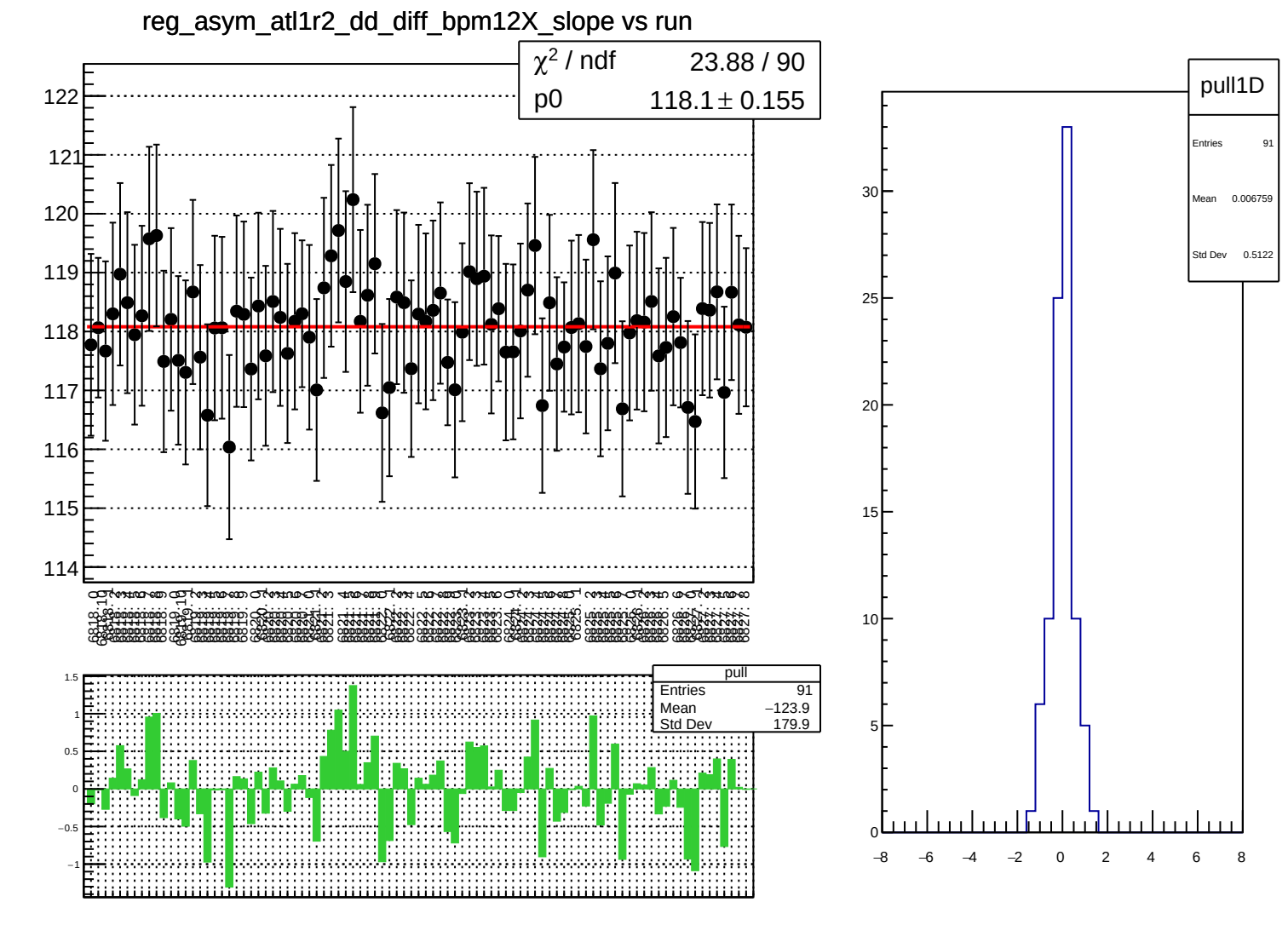

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.8 / 90
p0 −8.239 ± 2.671
pull
Entries 91
Mean 106.5
Std Dev 67.89

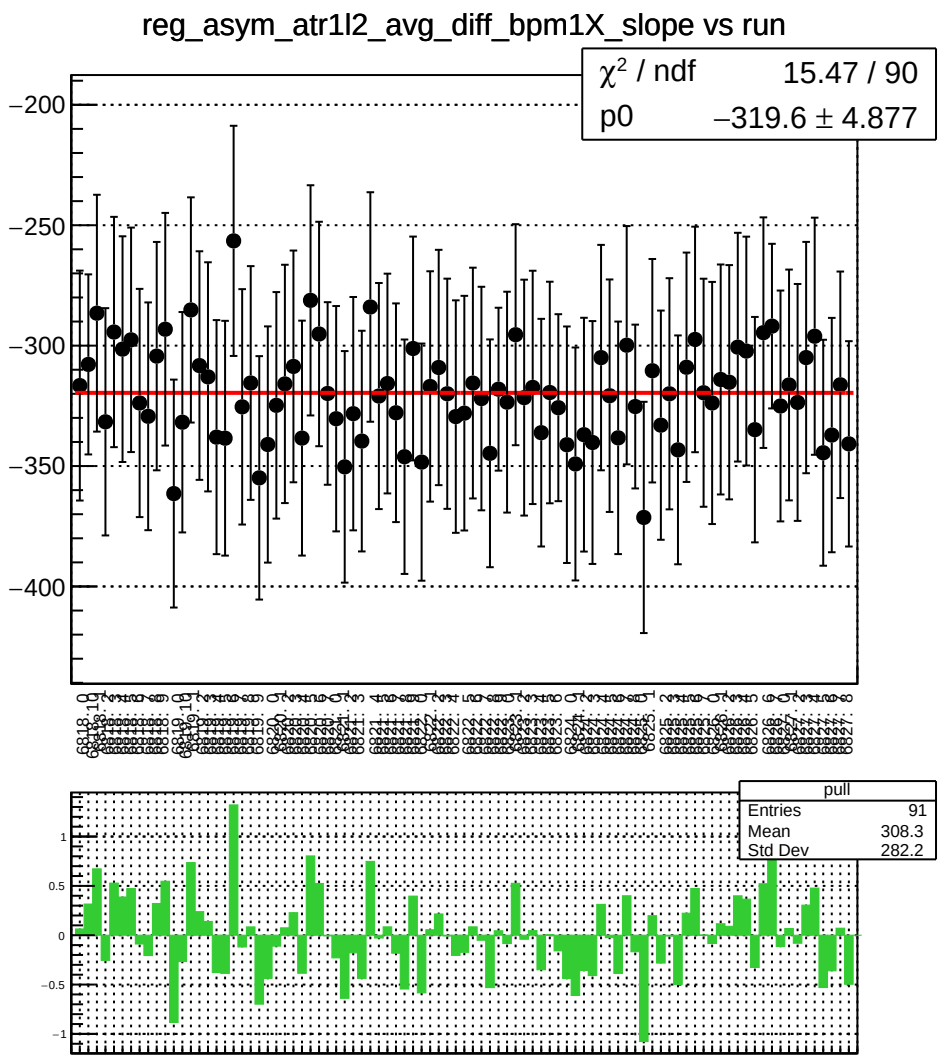

pull1D
Entries 91
Mean −0.009968
Std Dev 0.478

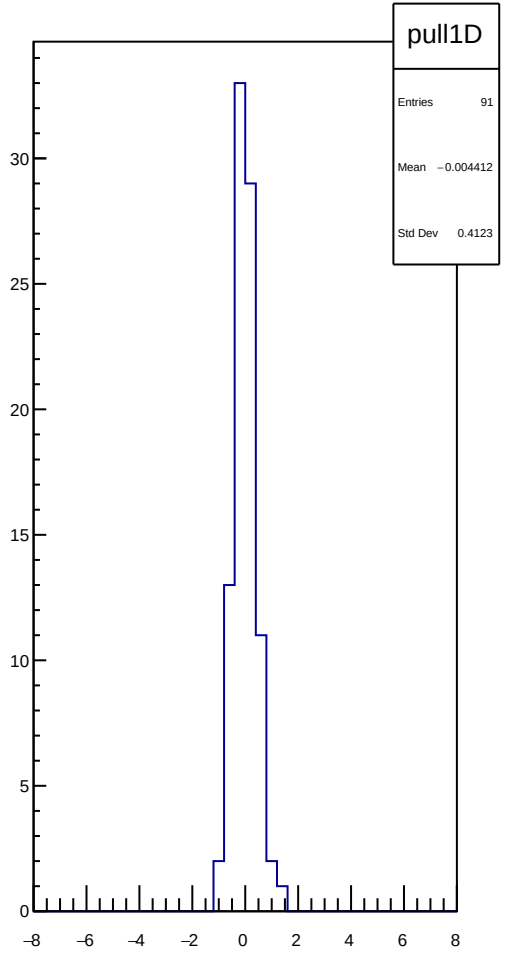

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.85 / 90
p0 −258 ± 3.702
pull
Entries 91
Mean 120.6
Std Dev 79.24
pull1D
Entries 91
Mean −0.00706
Std Dev 0.5119

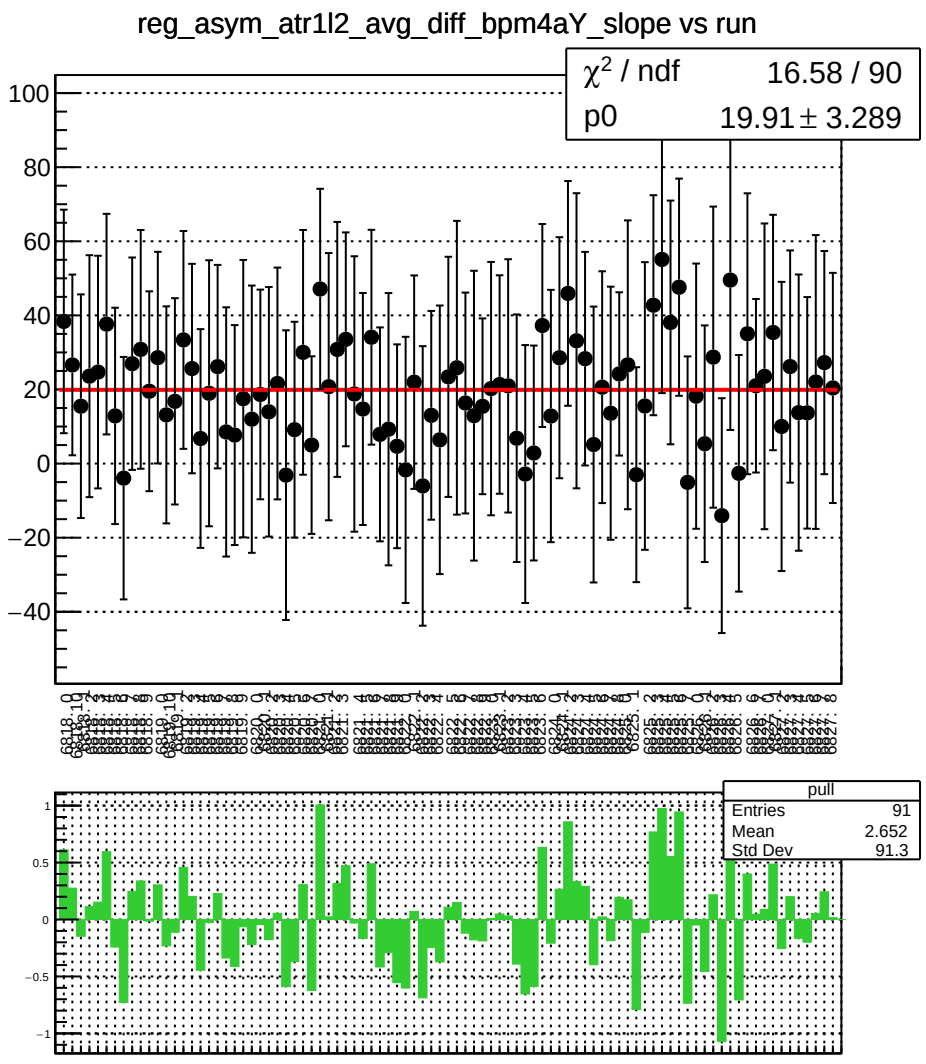

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.8 / 90
p0 −55.21 ± 3.099
pull
Entries 91
Mean −95.88
Std Dev 19.59

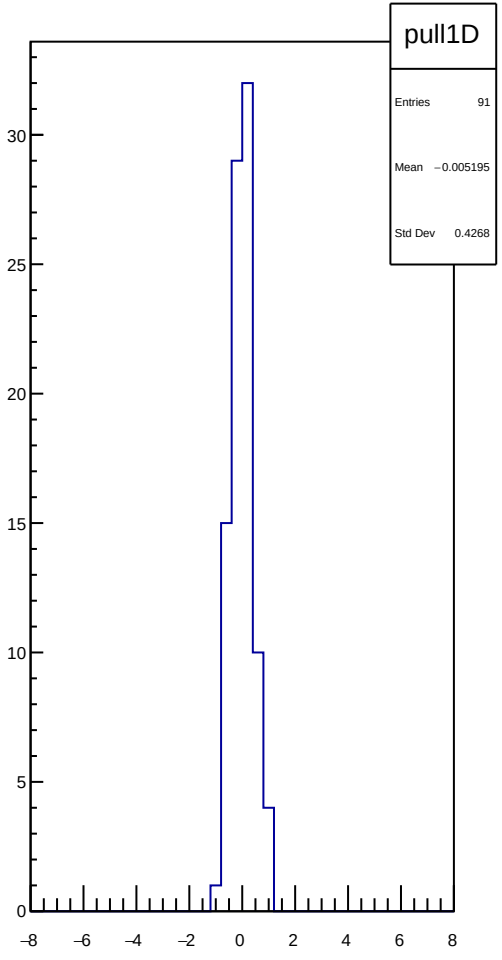

pull1D
Entries 91
Mean 0.004236
Std Dev 0.4781

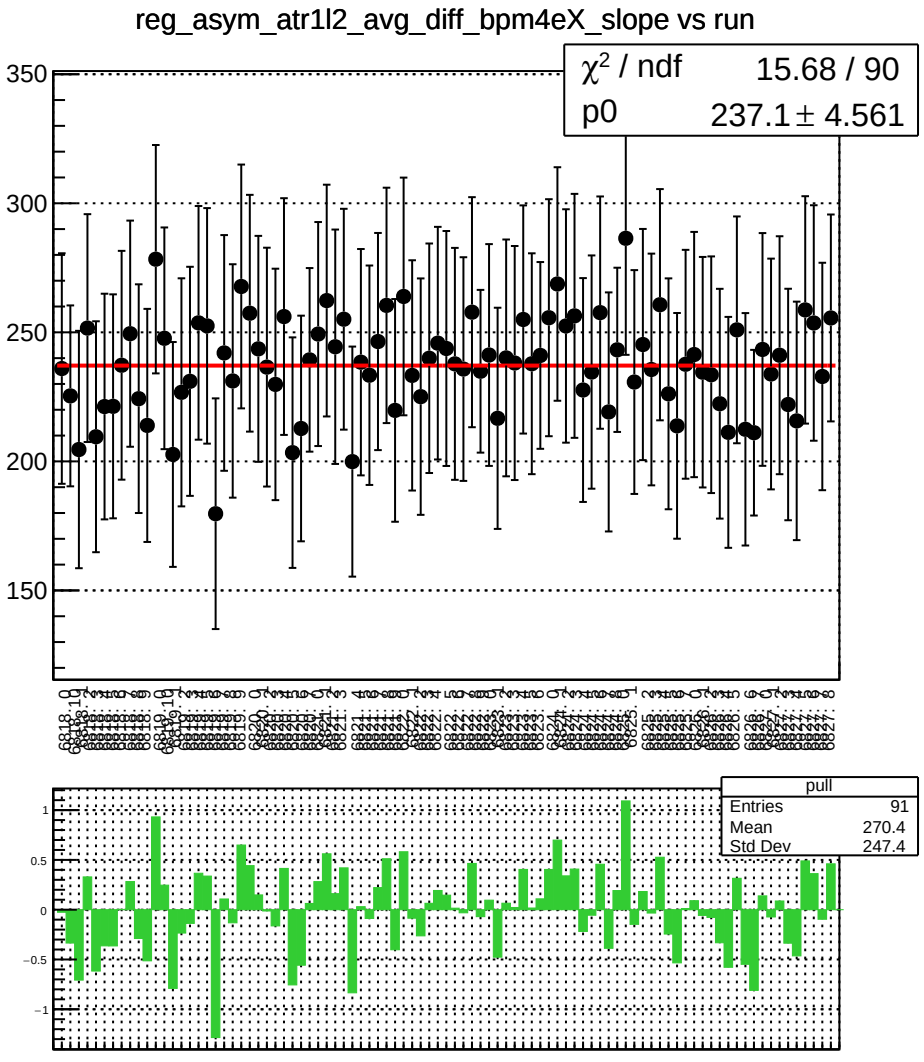

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.88 / 90
p0 118.1 ± 0.155
pull
Entries 91
Mean −123.9
Std Dev 179.9
pull1D
Entries 91
Mean 0.006759
Std Dev 0.5122

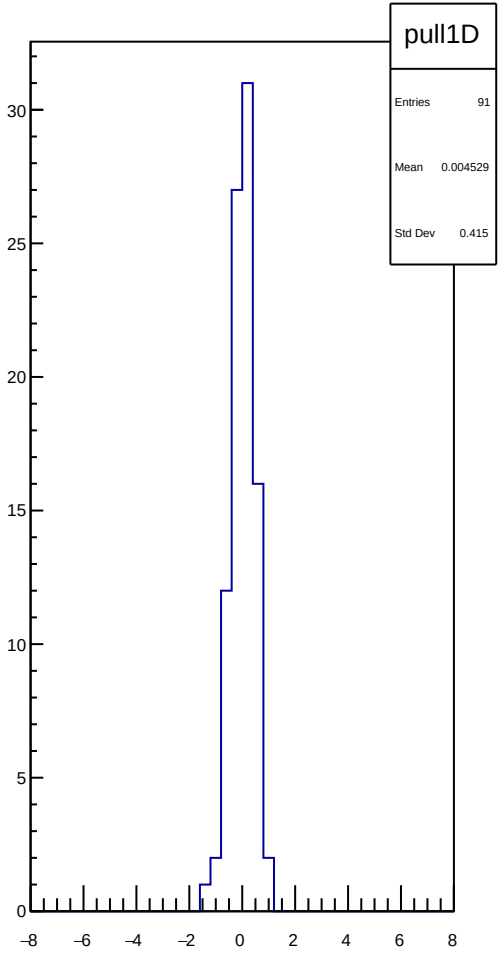

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 15.47 / 90
p0 −319.6 ± 4.877
−200
−250
−300
−350
−400
pull
Entries 91
Mean 308.3
Std Dev 282.2
1
0.5
0
−0.5
−1

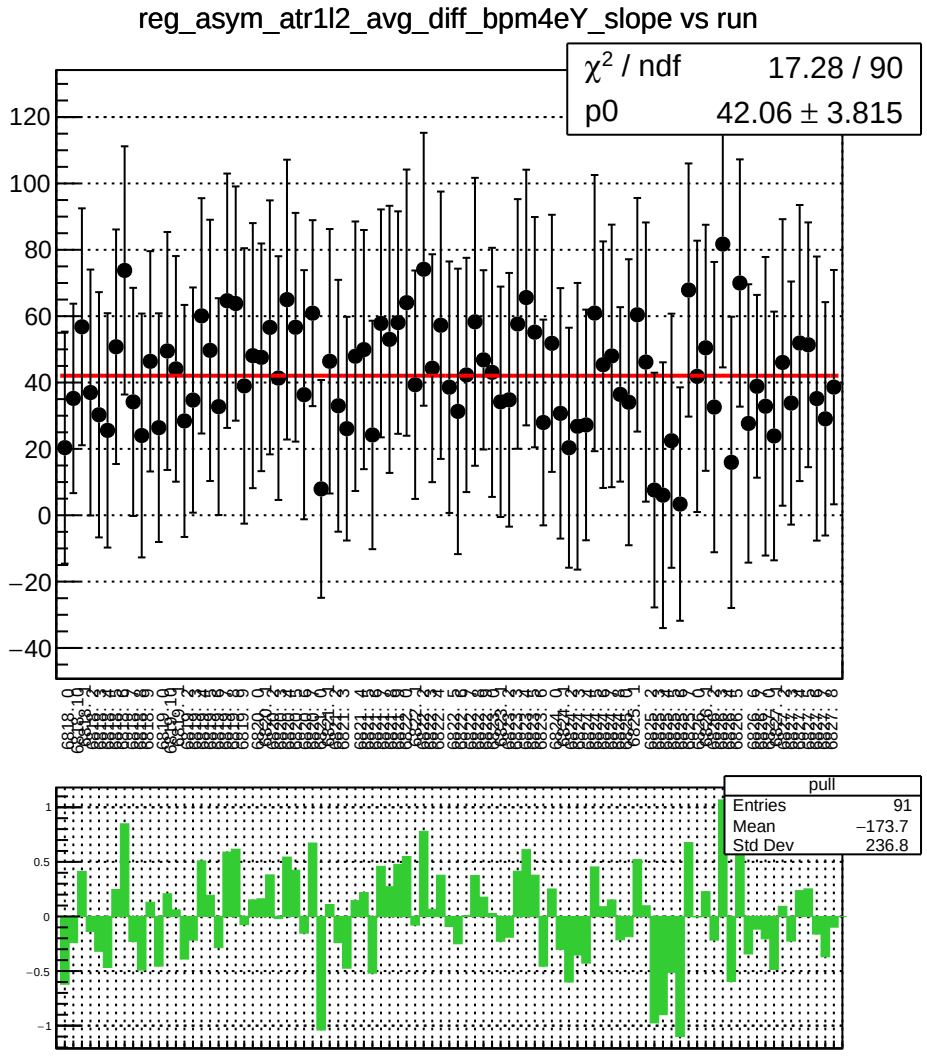

pull1D
Entries 91
Mean −0.004412
Std Dev 0.4123
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

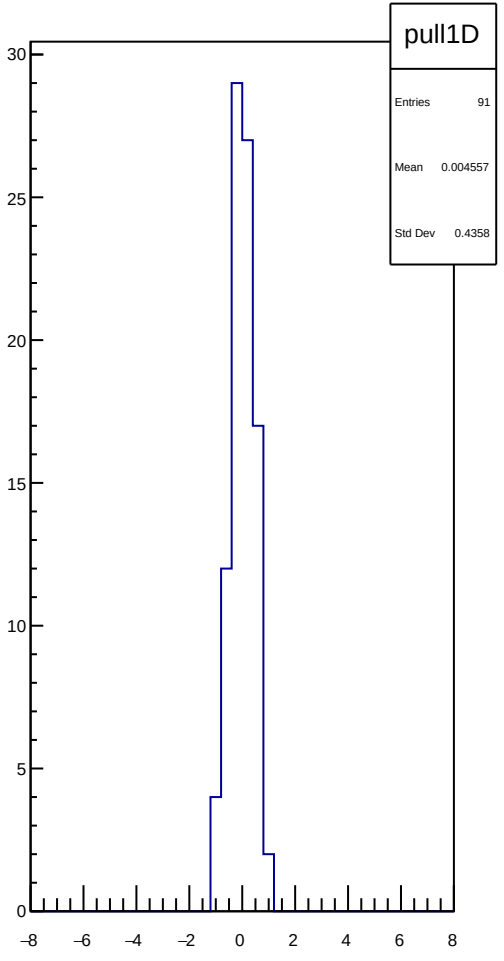

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.58 / 90
p0 19.91 ± 3.289
pull
Entries 91
Mean 2.652
Std Dev 91.3

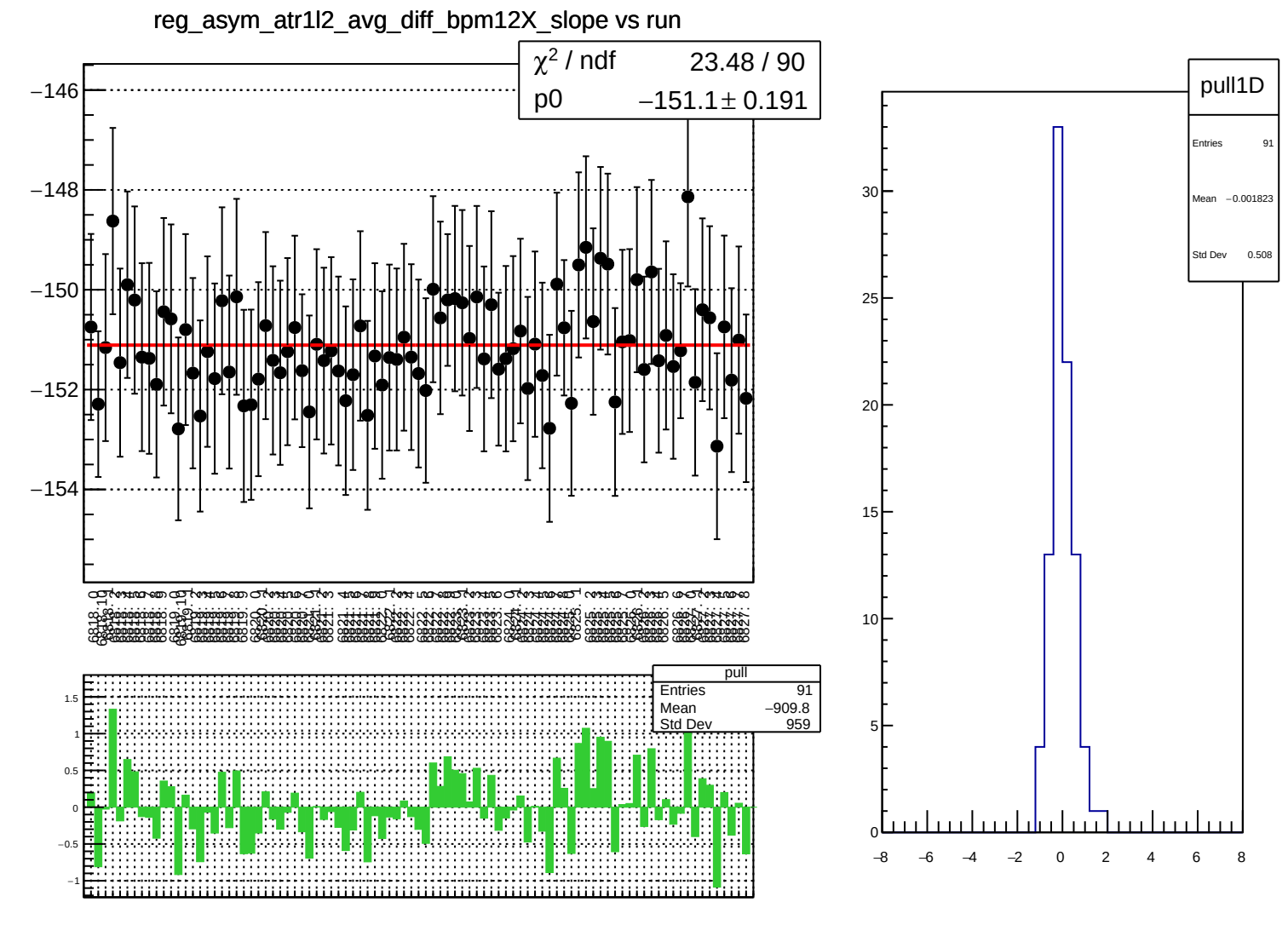

pull1D
Entries 91
Mean −0.005195
Std Dev 0.4268

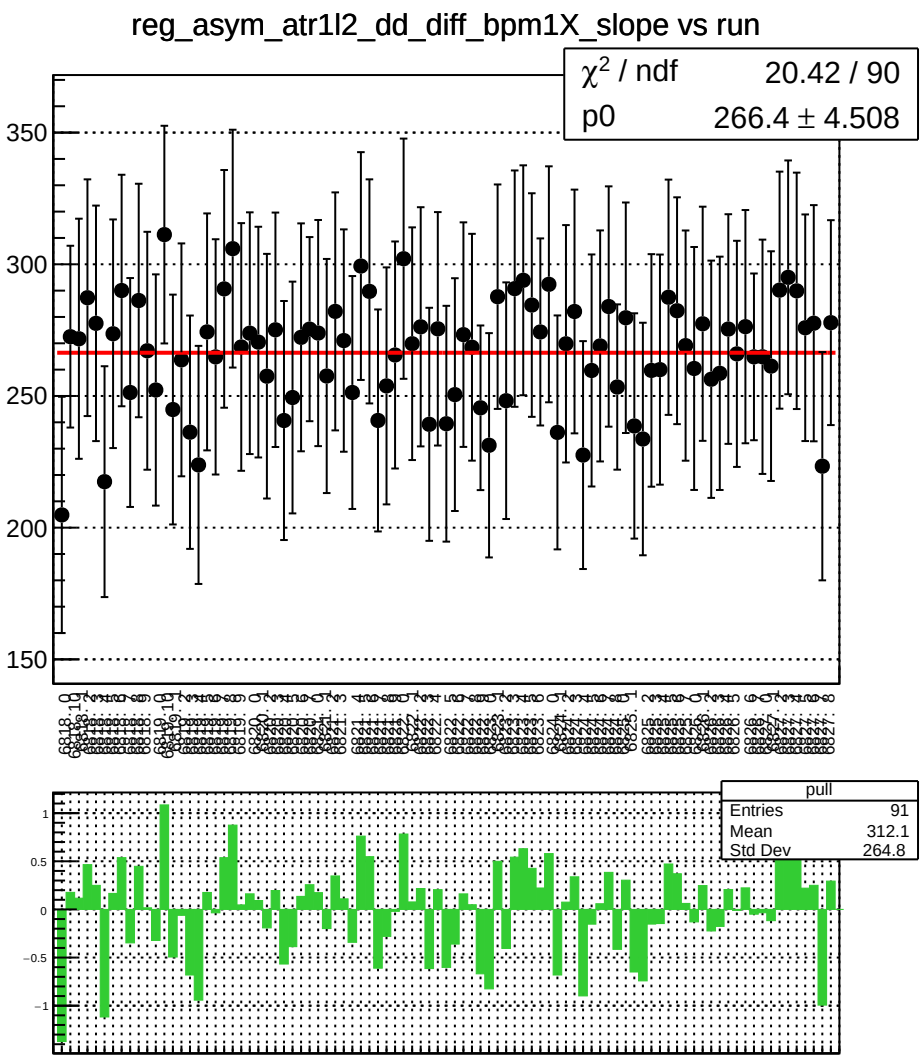

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.68 / 90
p0 237.1 ± 4.561
350
300
250
200
150
pull
Entries 91
Mean 270.4
Std Dev 247.4
1
0.5
0
−0.5
−1

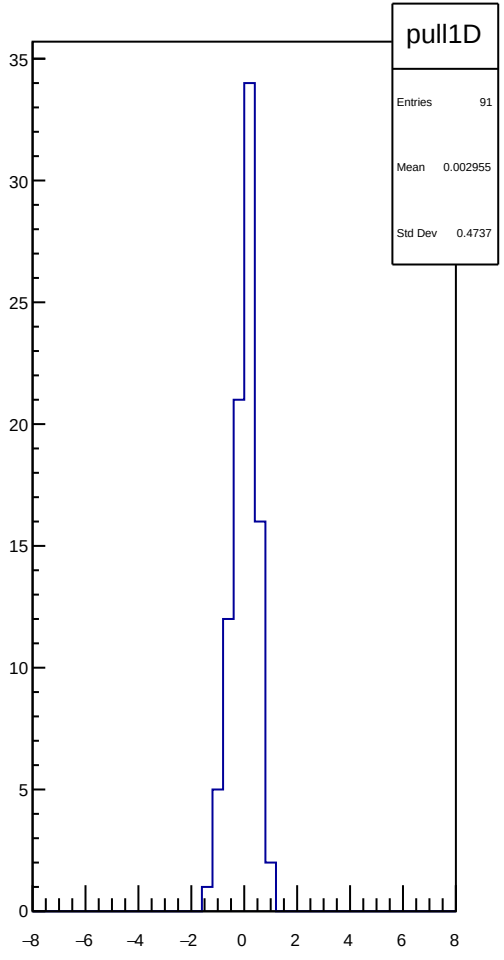

pull1D
Entries 91
Mean 0.004529
Std Dev 0.415
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

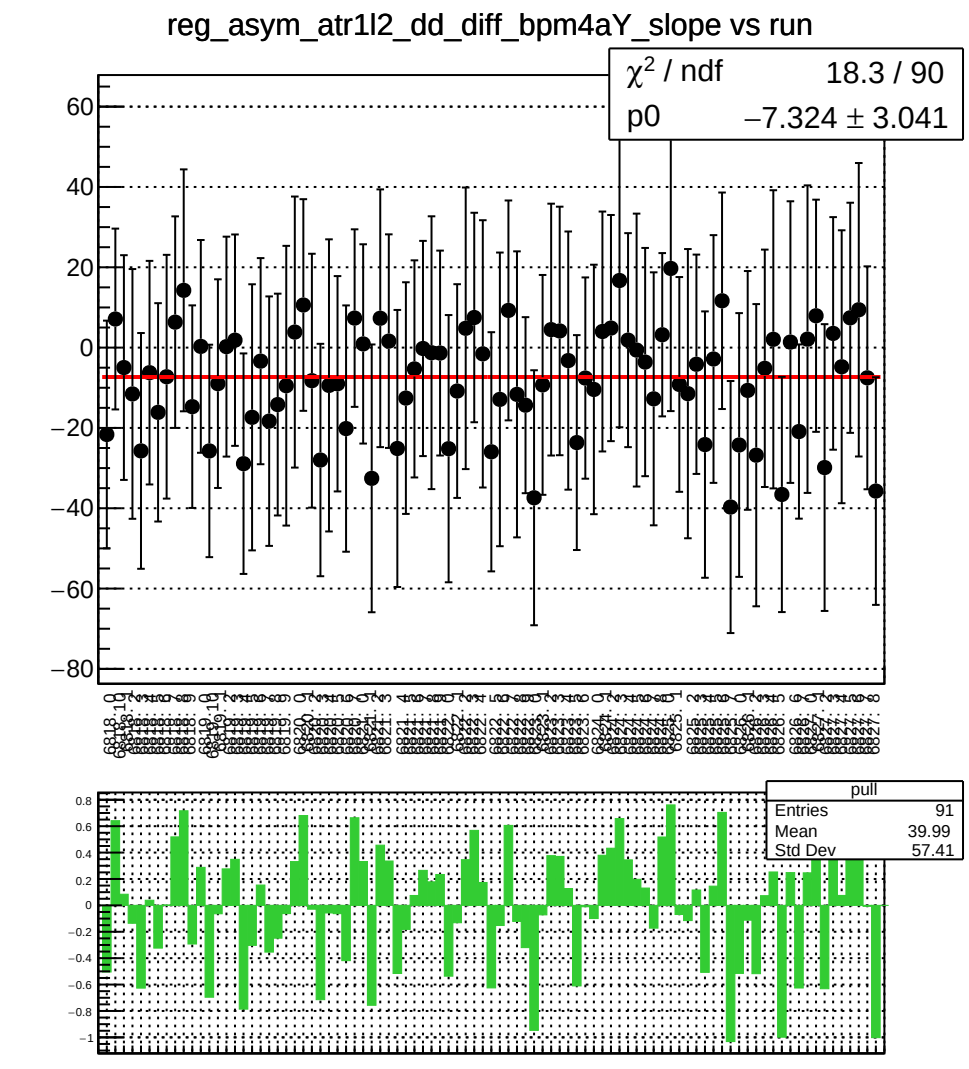

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.28 / 90
p0 42.06 ± 3.815
pull
Entries 91
Mean −173.7
Std Dev 236.8

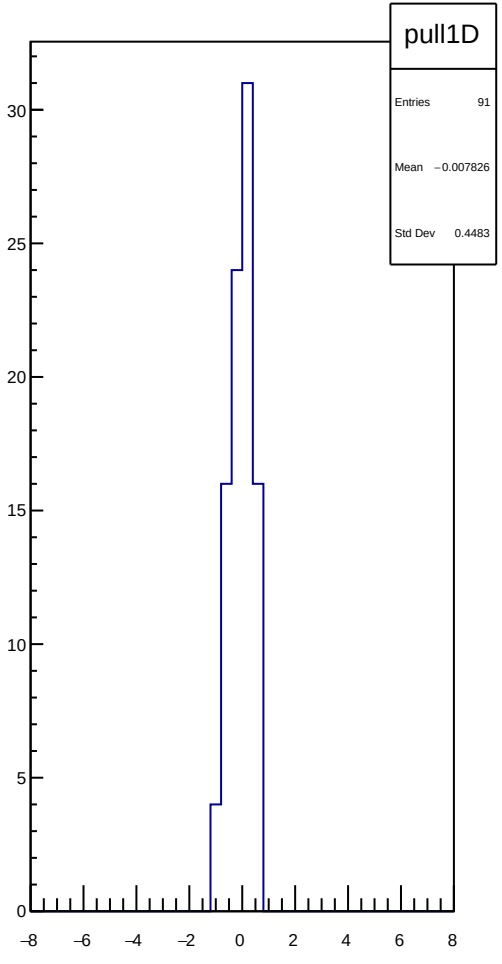

pull1D
Entries 91
Mean 0.004557
Std Dev 0.4358

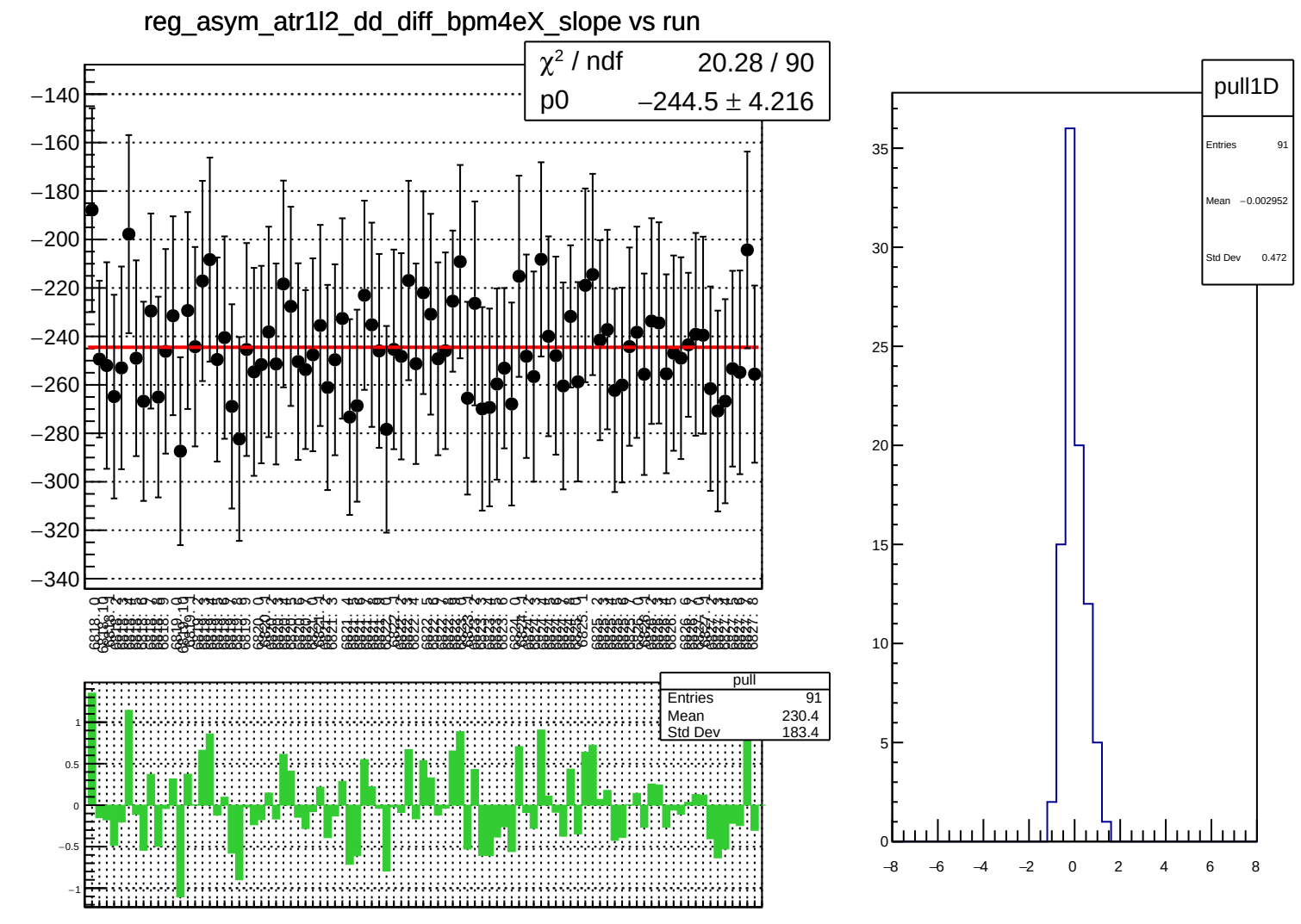

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 23.48 / 90
p0 −151.1 ± 0.191
−146
−148
−150
−152
−154
pull
Entries 91
Mean −909.8
Std Dev 959
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean −0.001823
Std Dev 0.508
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

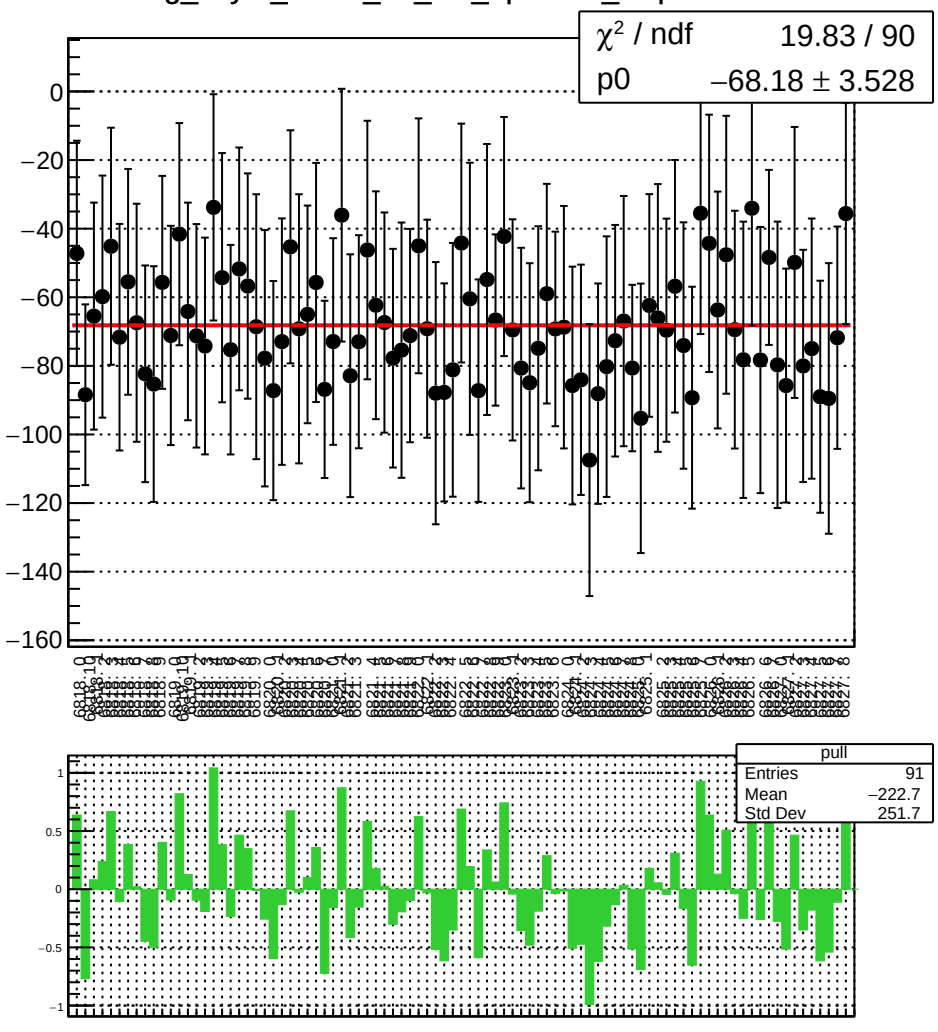

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 20.42 / 90
p0 266.4 ± 4.508
350
300
250
200
150
pull
Entries 91
Mean 312.1
Std Dev 264.8
1
0.5
0
−0.5
−1

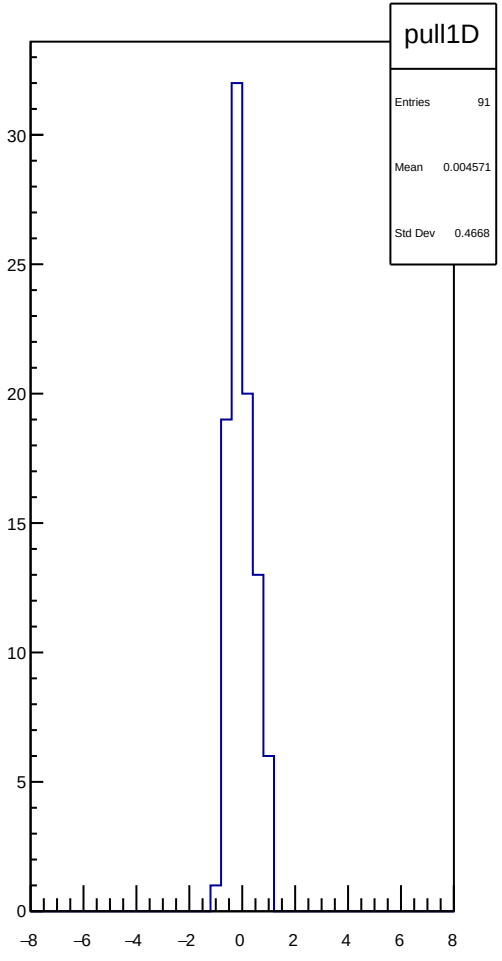

pull1D
Entries 91
Mean 0.002955
Std Dev 0.4737
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

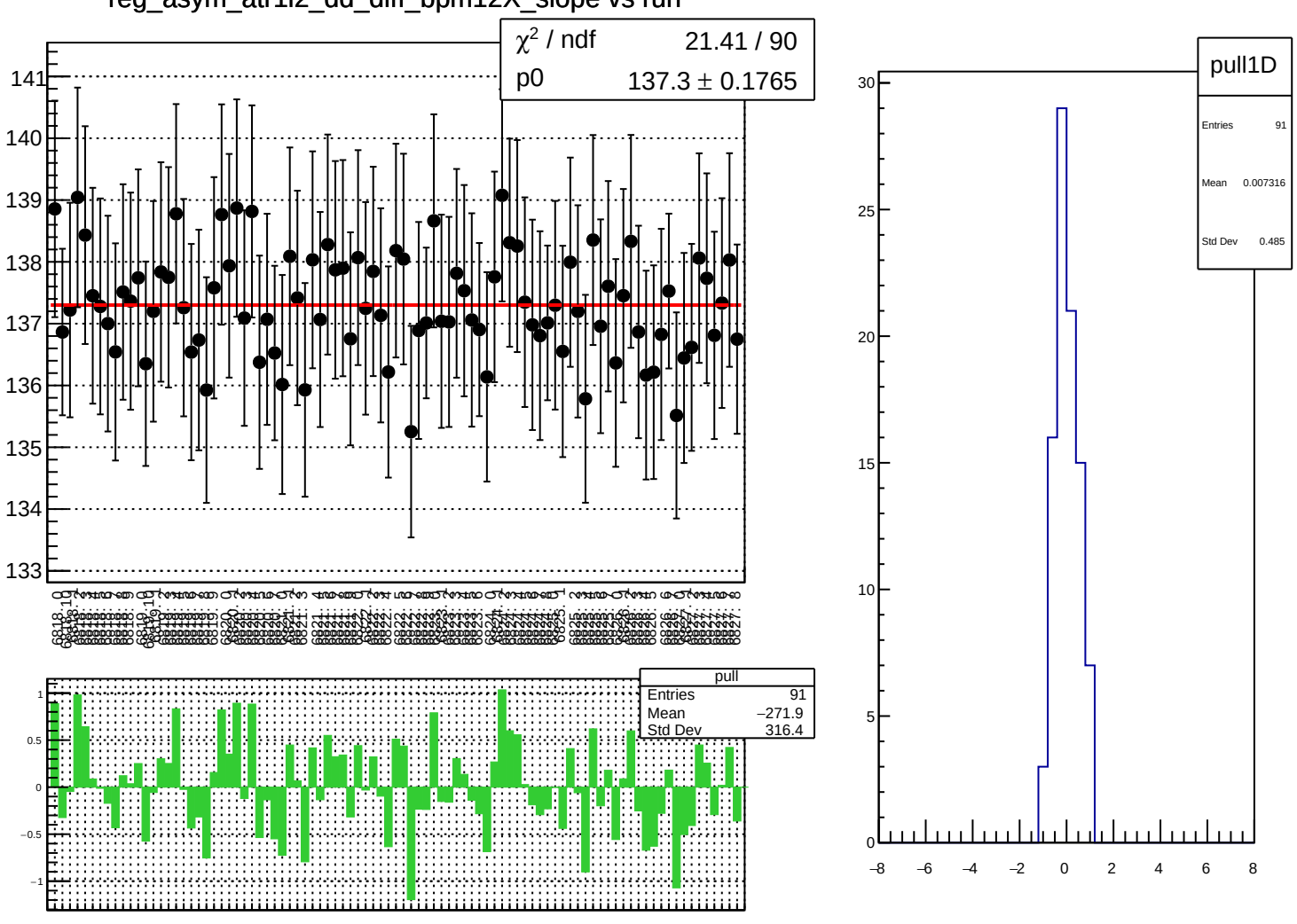

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.3 / 90
p0 −7.324 ± 3.041
pull
Entries 91
Mean 39.99
Std Dev 57.41

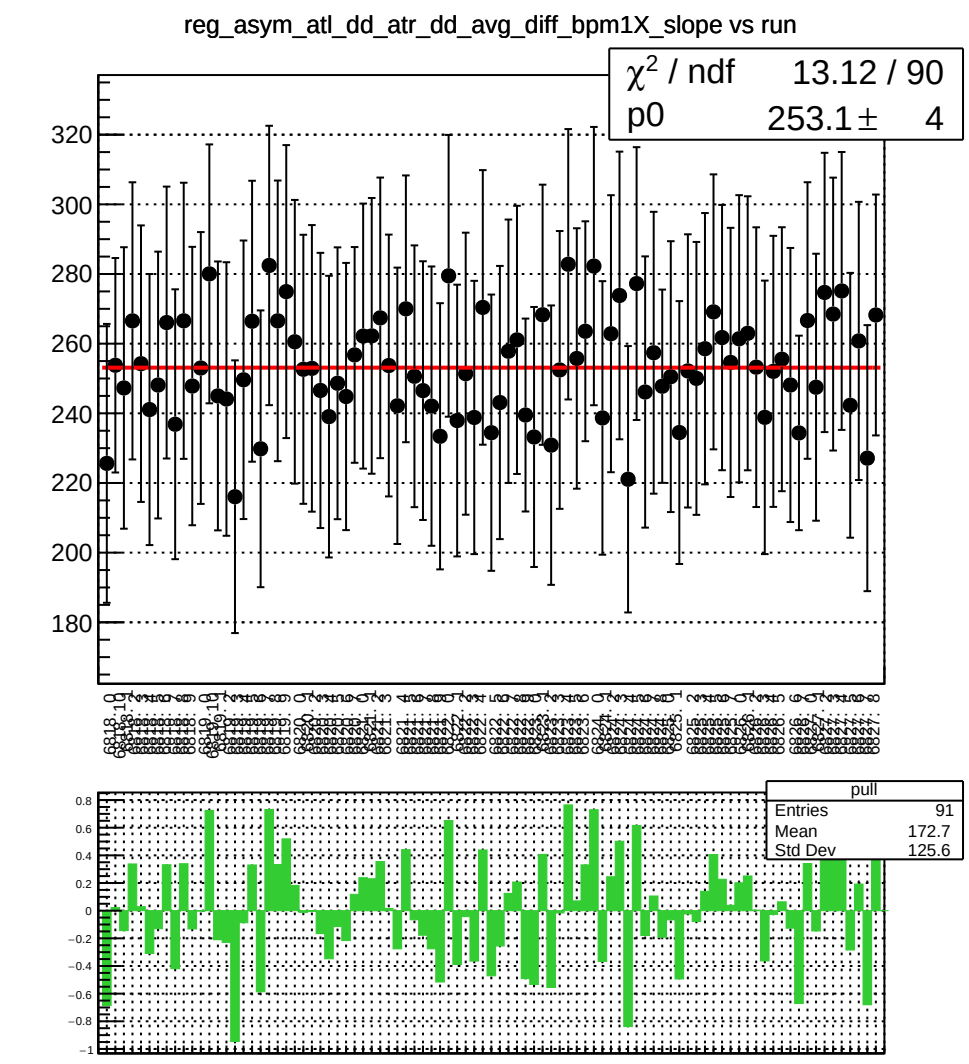

pull1D
Entries 91
Mean −0.007826
Std Dev 0.4483

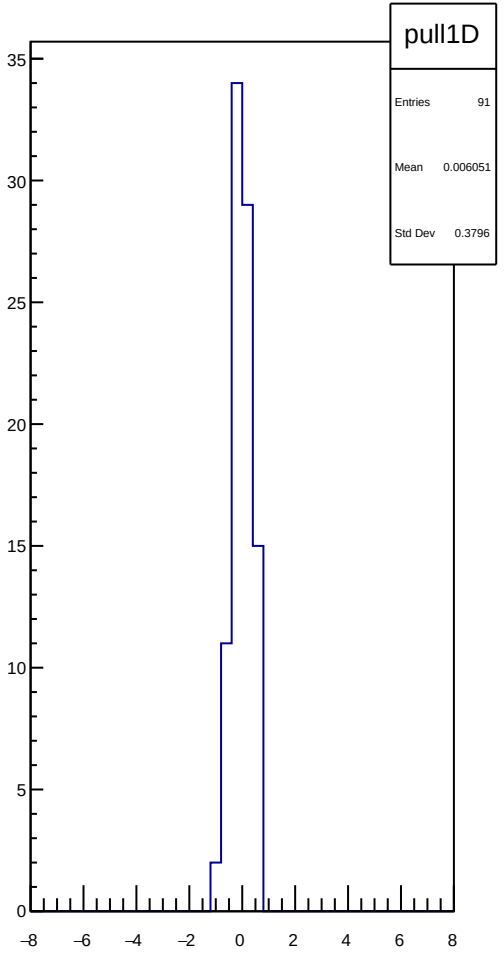

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.28 / 90
p0 −244.5 ± 4.216
pull
Entries 91
Mean 230.4
Std Dev 183.4
pull1D
Entries 91
Mean −0.002952
Std Dev 0.472

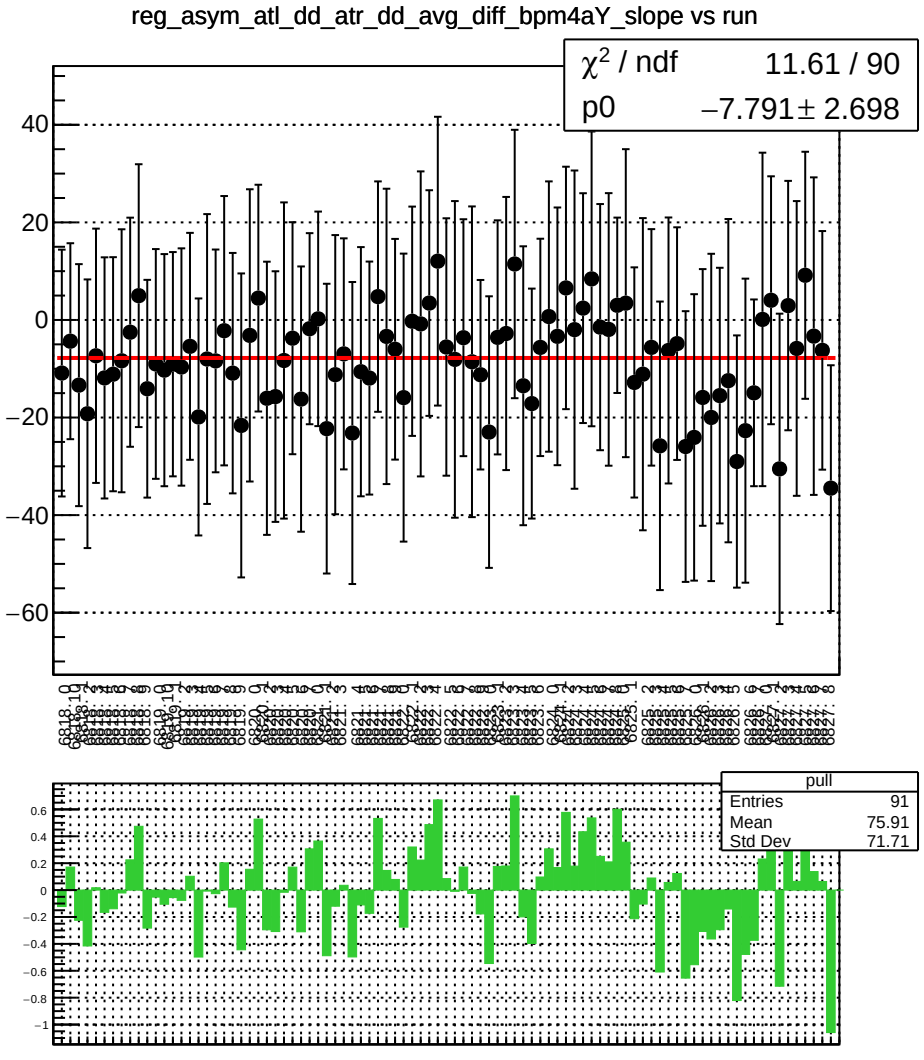

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.83 / 90
p0 −68.18 ± 3.528
pull
Entries 91
Mean −222.7
Std Dev 251.7

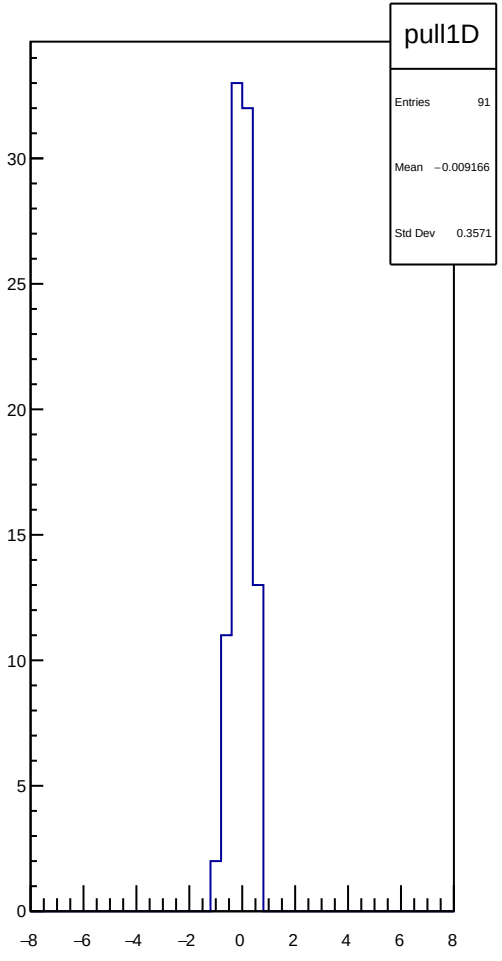

pull1D
Entries 91
Mean 0.004571
Std Dev 0.4668

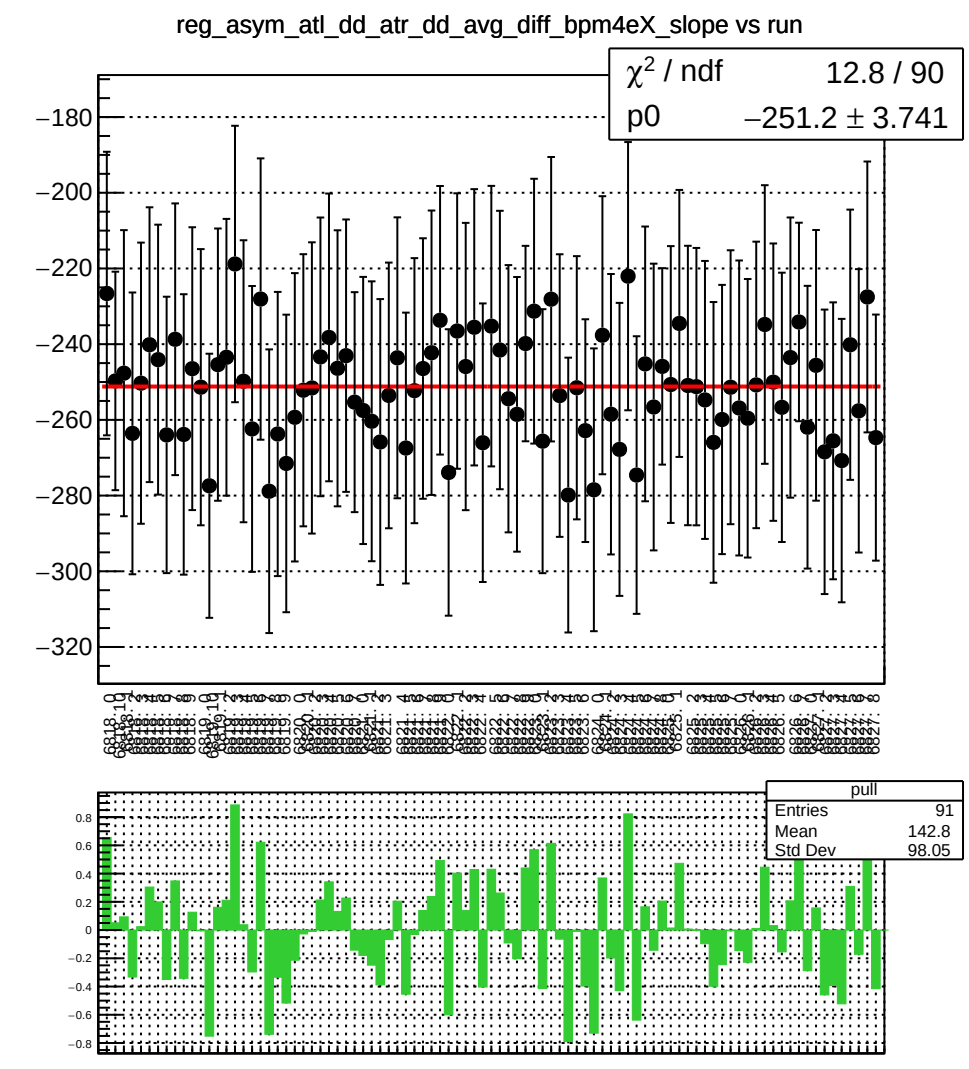

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 21.41 / 90
p0 137.3 ± 0.1765
141
140
139
138
137
136
135
134
133
pull
Entries 91
Mean −271.9
Std Dev 316.4
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.007316
Std Dev 0.485
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

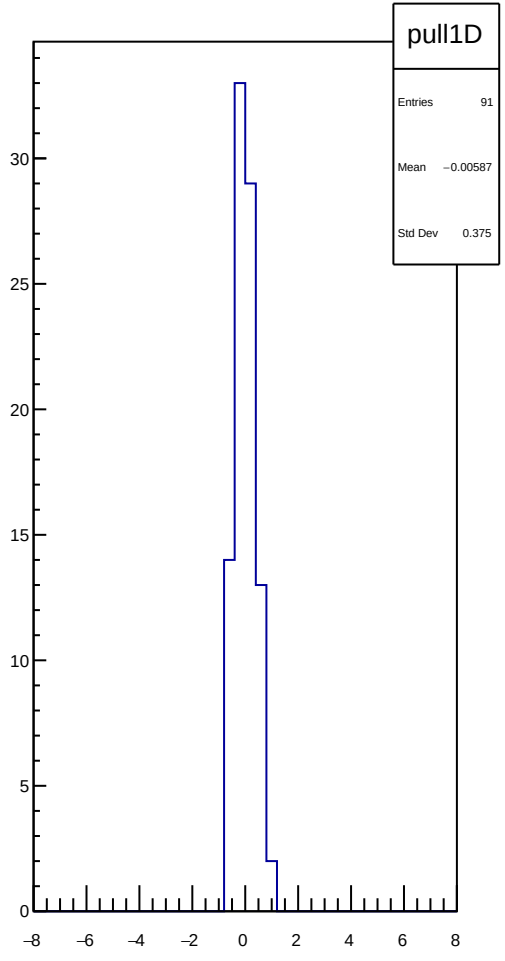

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 13.12 / 90
p0 253.1 ± 4
pull
Entries 91
Mean 172.7
Std Dev 125.6

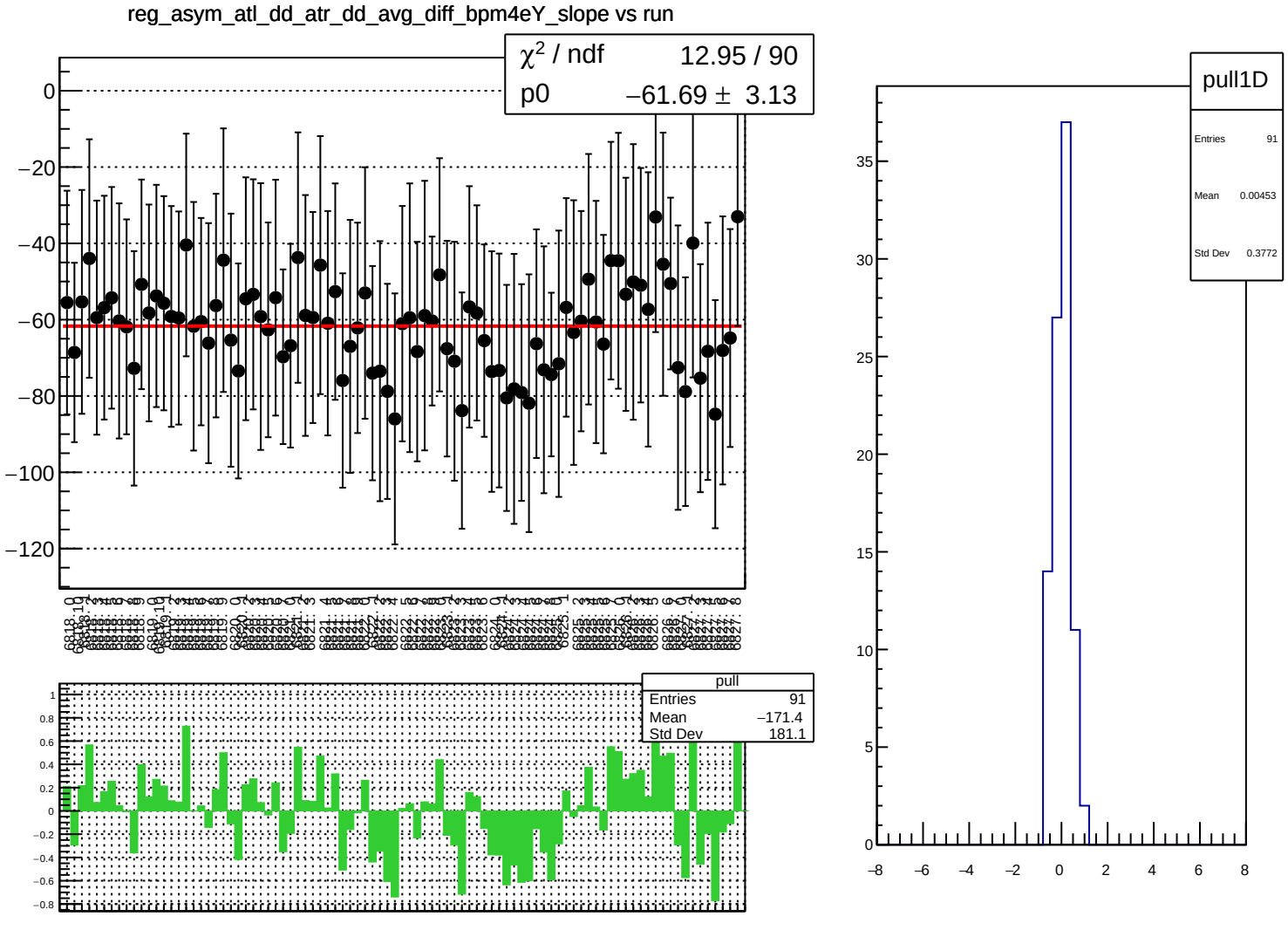

pull1D
Entries 91
Mean 0.006051
Std Dev 0.3796

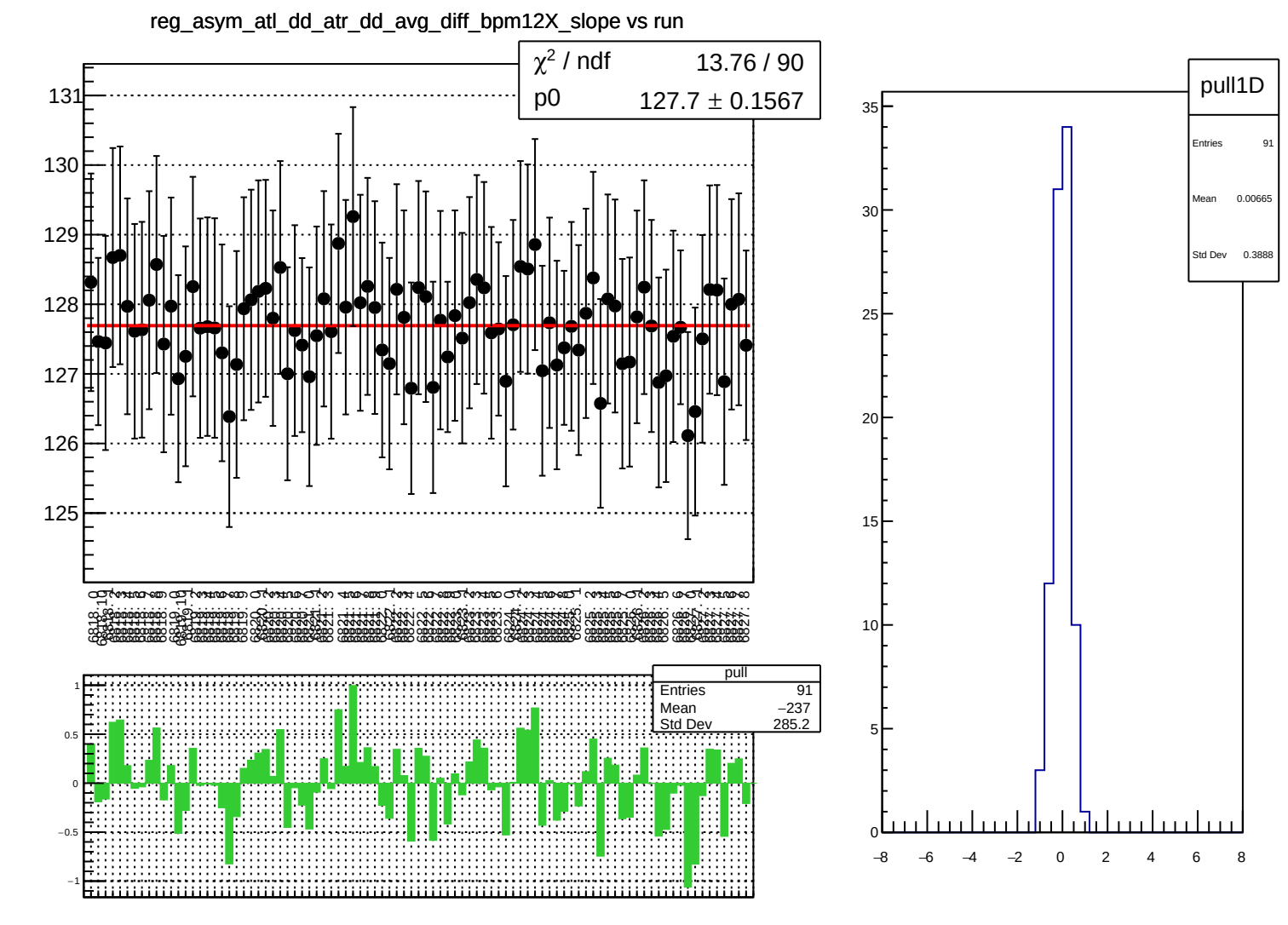

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.61 / 90
p0 −7.791 ± 2.698
pull
Entries 91
Mean 75.91
Std Dev 71.71

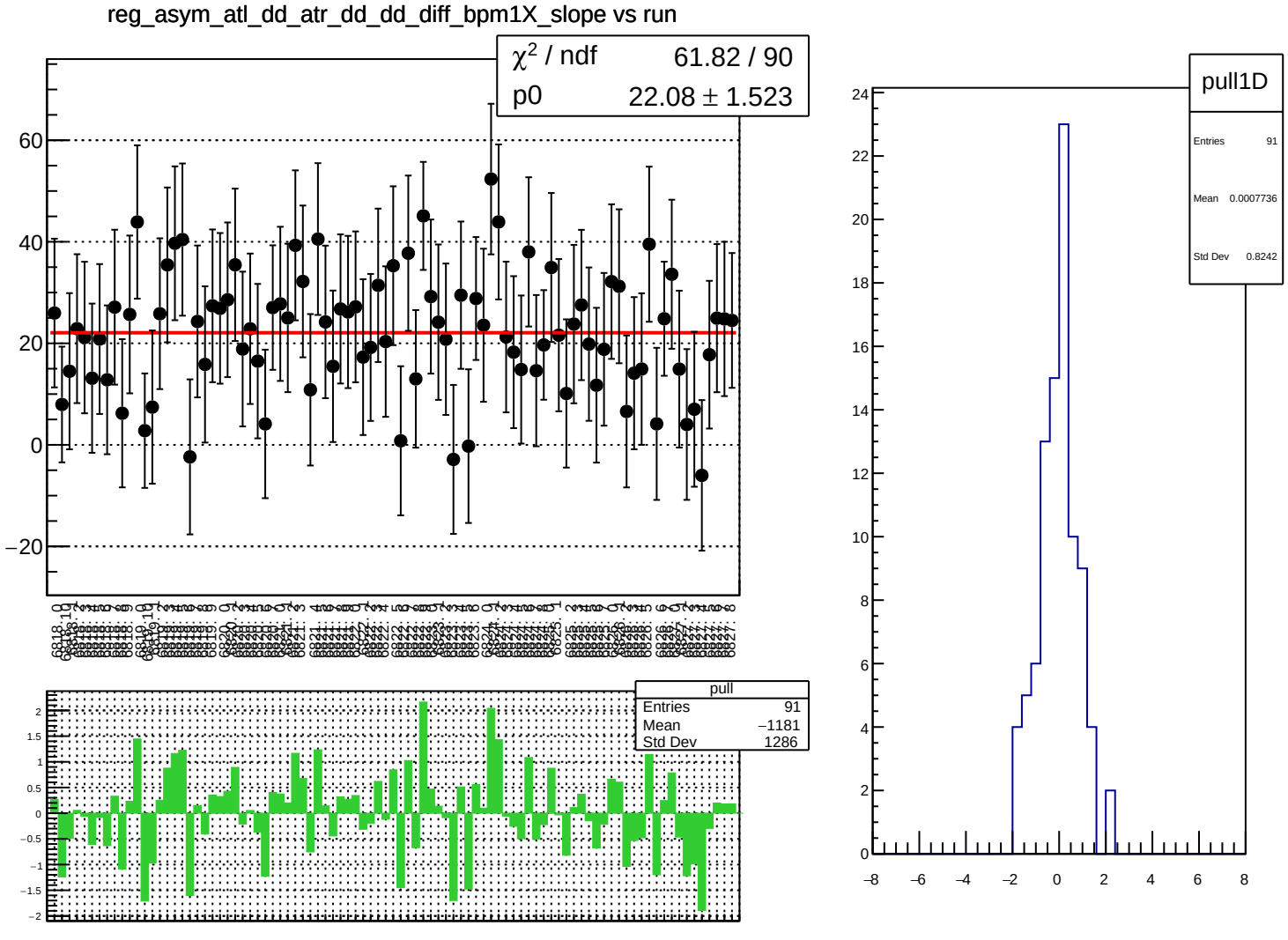

pull1D
Entries 91
Mean −0.009166
Std Dev 0.3571

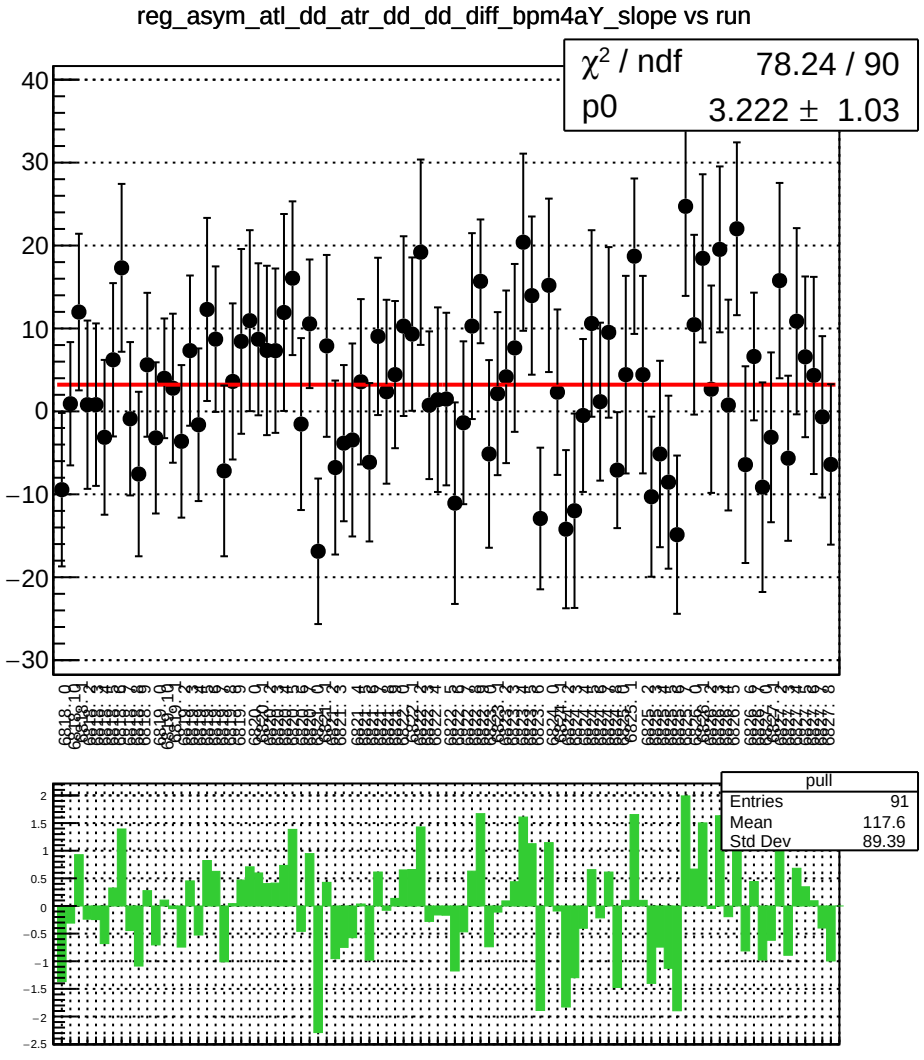

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.8 / 90
p0 −251.2 ± 3.741
−180
−200
−220
−240
−260
−280
−300
−320
pull
Entries 91
Mean 142.8
Std Dev 98.05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

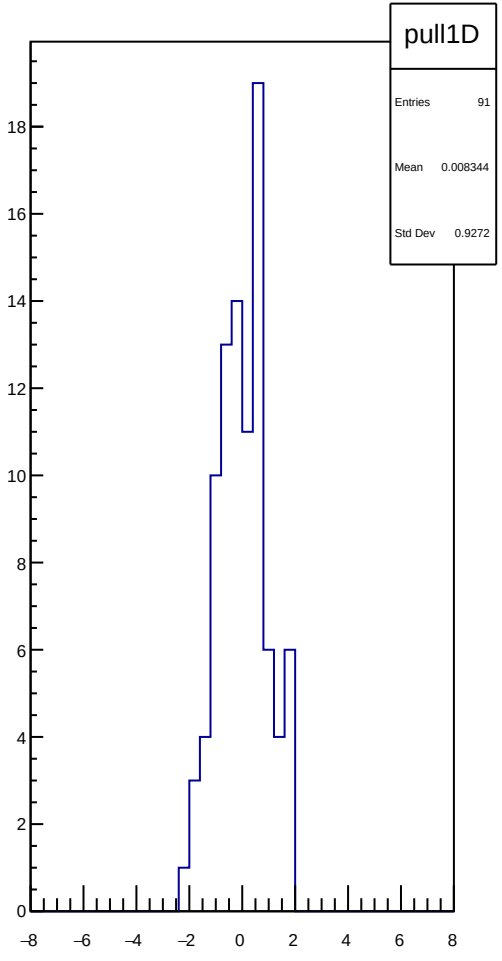

pull1D
Entries 91
Mean −0.00587
Std Dev 0.375
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

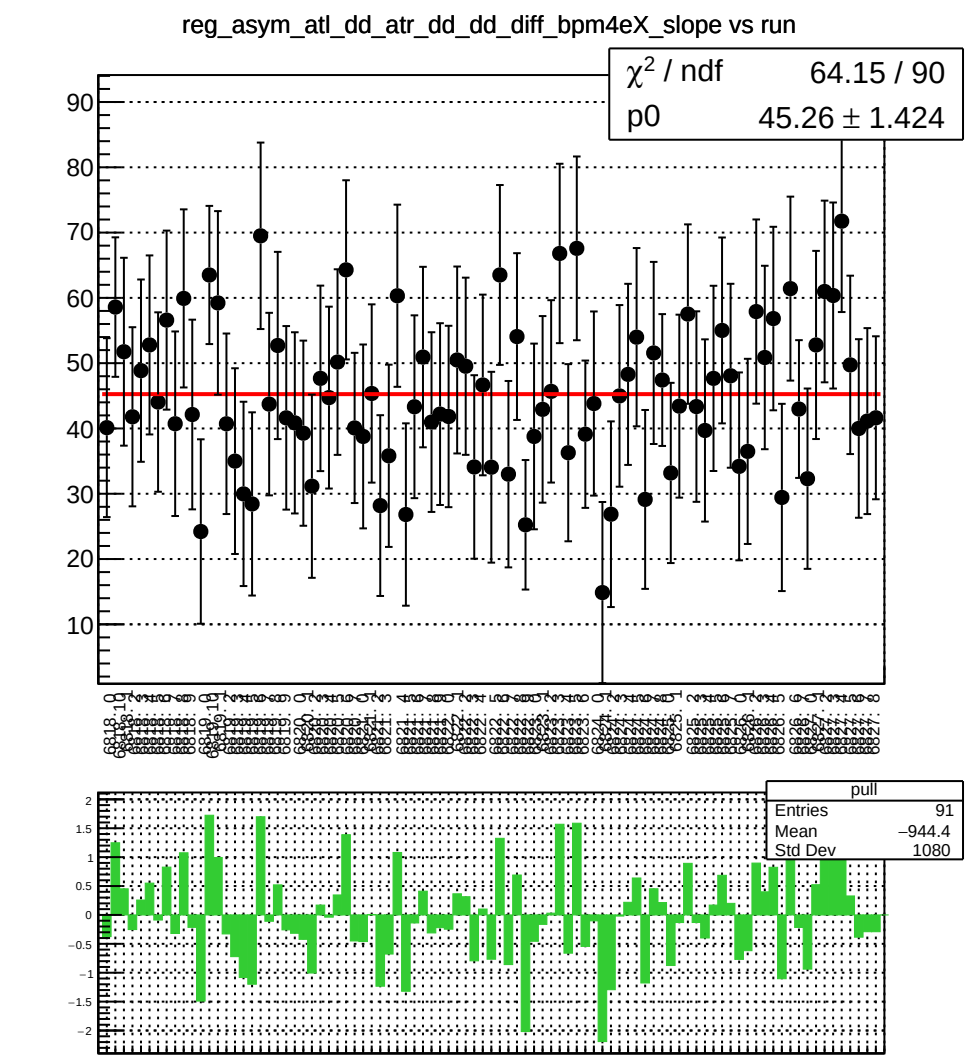

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.95 / 90
p0 −61.69 ± 3.13
pull
Entries 91
Mean −171.4
Std Dev 181.1
pull1D
Entries 91
Mean 0.00453
Std Dev 0.3772

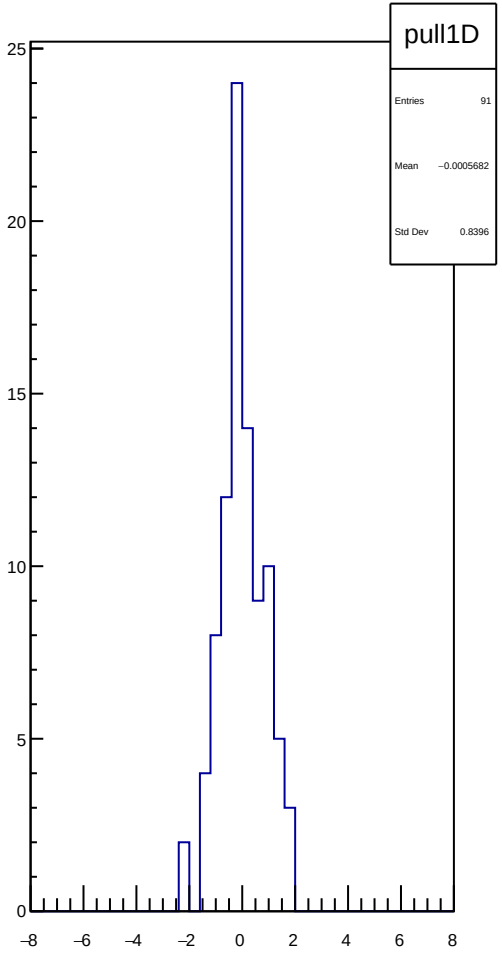

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 13.76 / 90
p0 127.7 ± 0.1567
131
130
129
128
127
126
125
pull
Entries 91
Mean −237
Std Dev 285.2
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.00665
Std Dev 0.3888
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

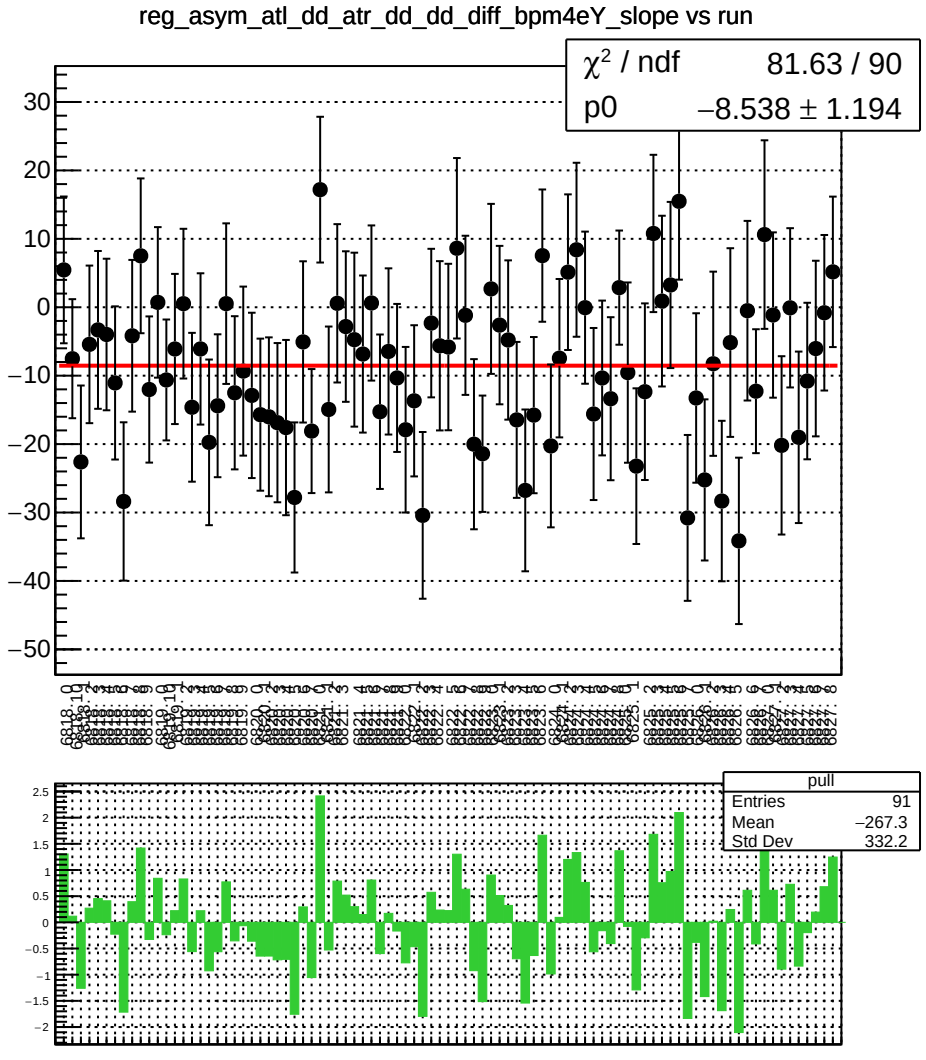

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 61.82 / 90
p0 22.08 ± 1.523
pull
Entries 91
Mean −1181
Std Dev 1286
pull1D
Entries 91
Mean 0.0007736
Std Dev 0.8242

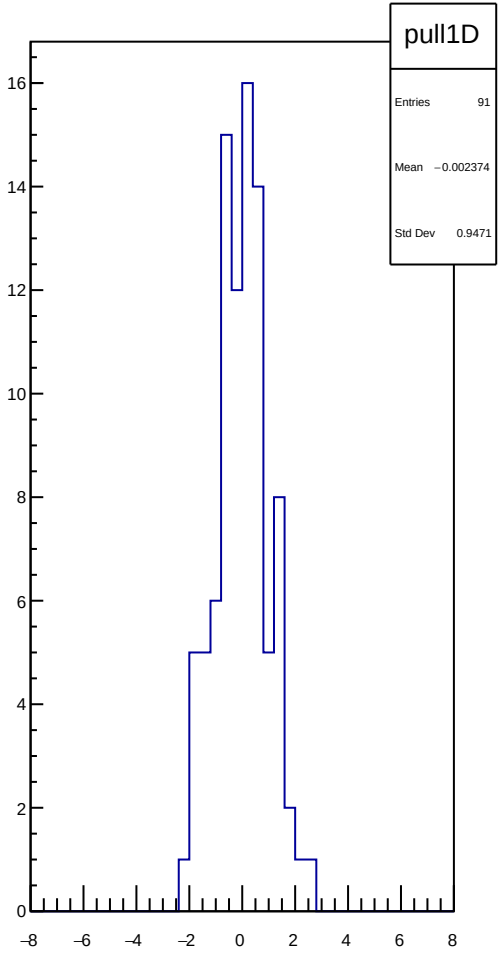

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.24 / 90
p0 3.222 ± 1.03
pull
Entries 91
Mean 117.6
Std Dev 89.39

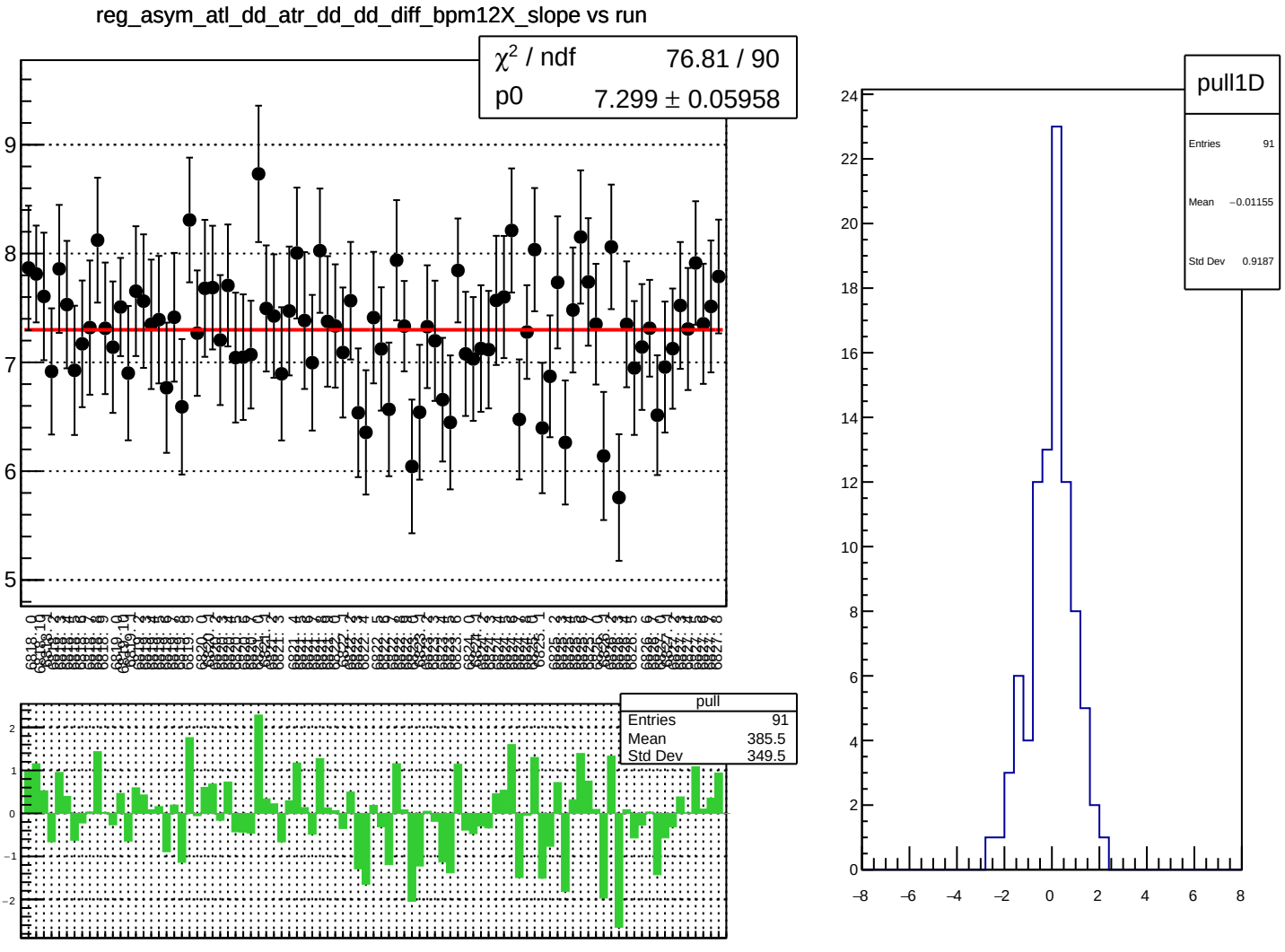

pull1D
Entries 91
Mean 0.008344
Std Dev 0.9272

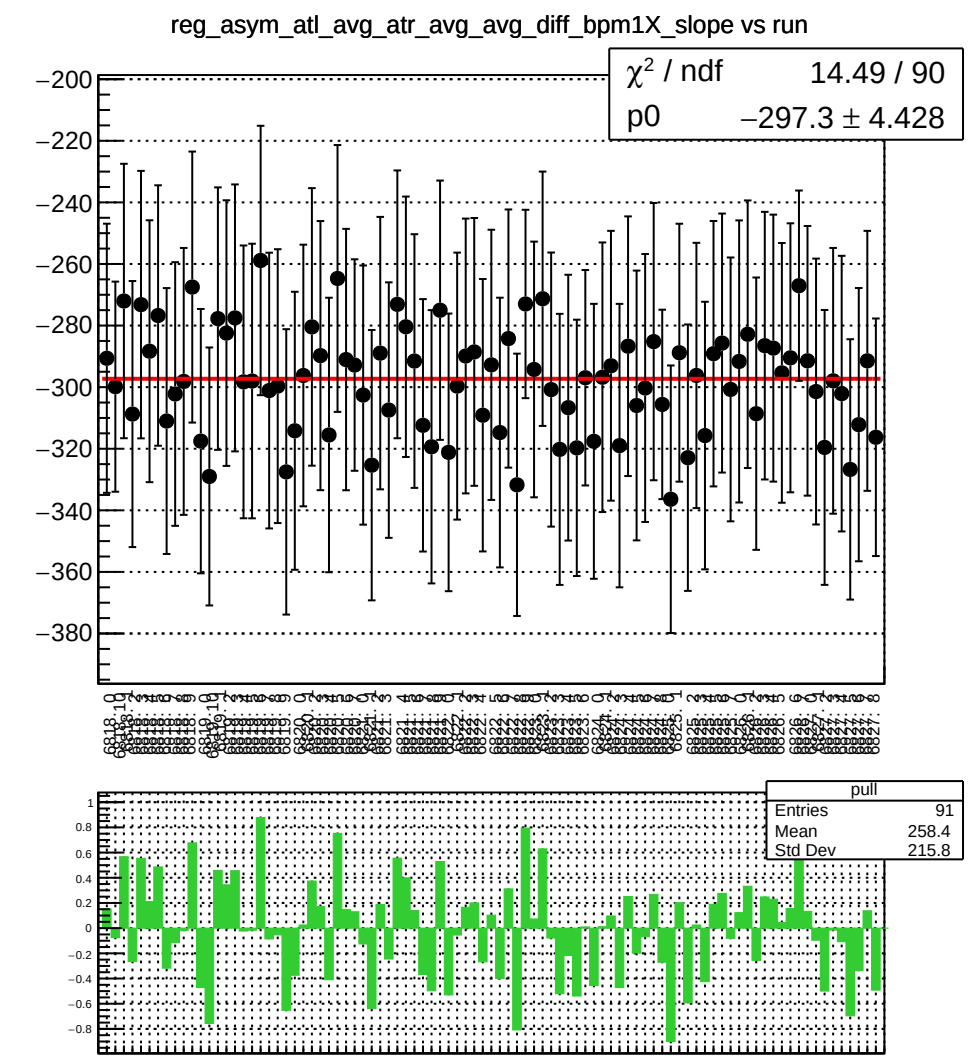

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.15 / 90
p0 45.26 ± 1.424
pull
Entries 91
Mean −944.4
Std Dev 1080

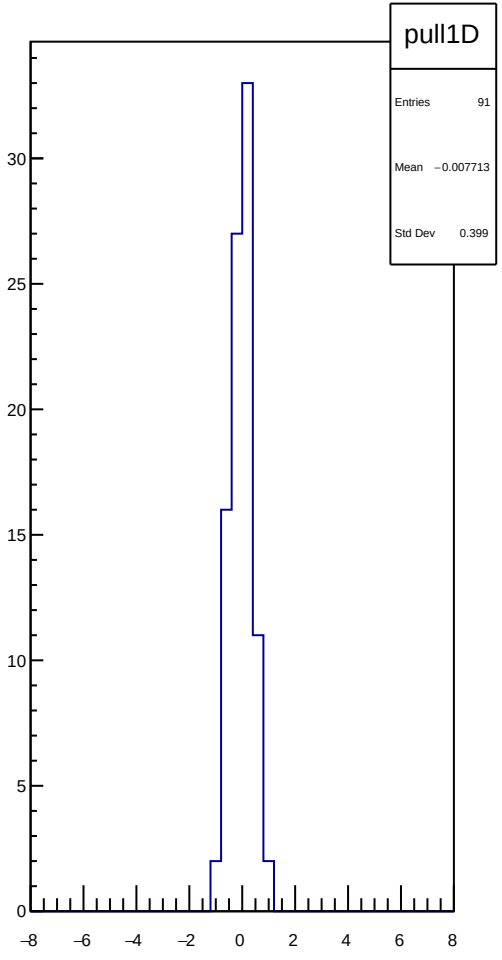

pull1D
Entries 91
Mean −0.0005682
Std Dev 0.8396

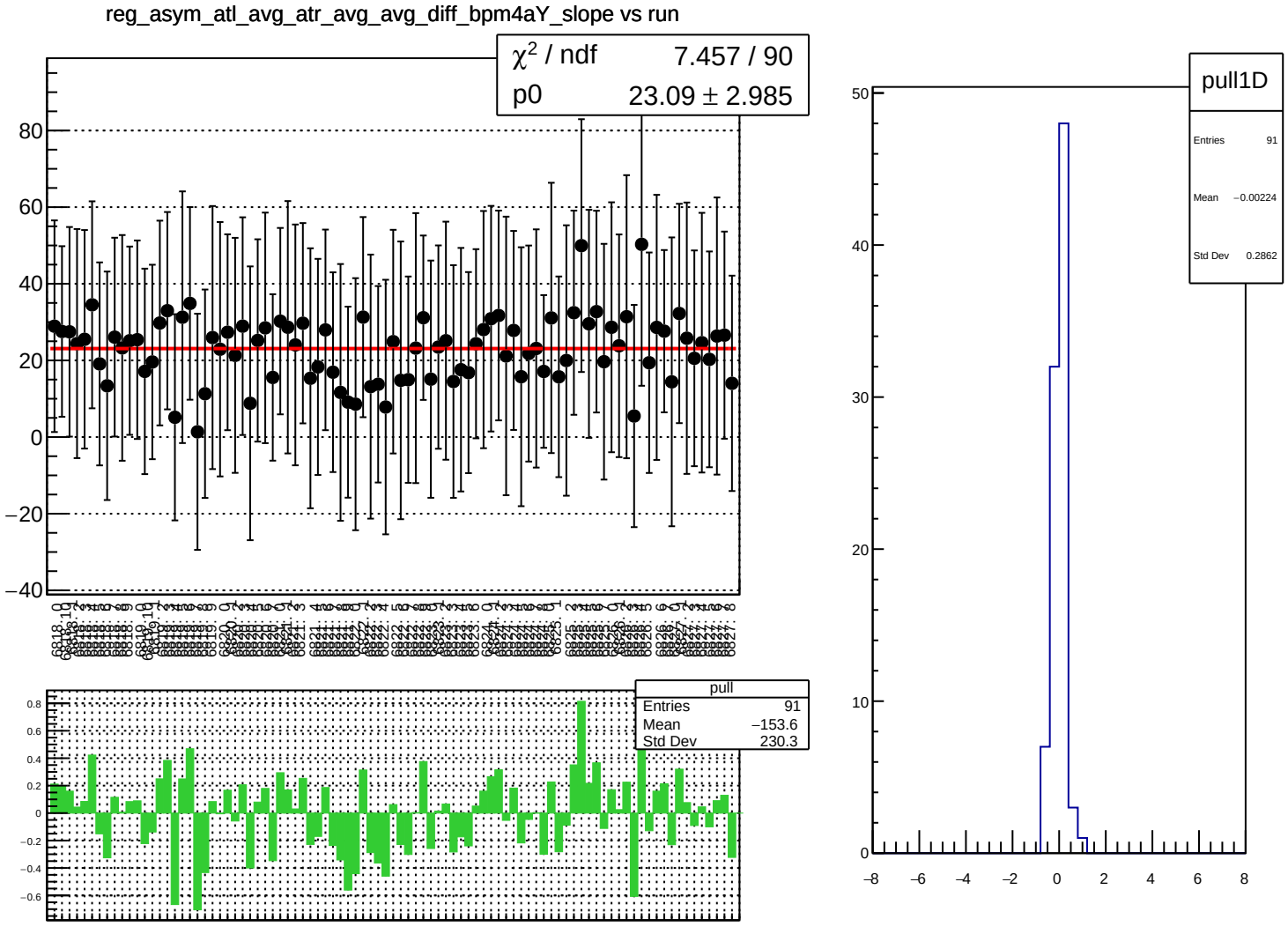

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.63 / 90
p0 −8.538 ± 1.194
pull
Entries 91
Mean −267.3
Std Dev 332.2

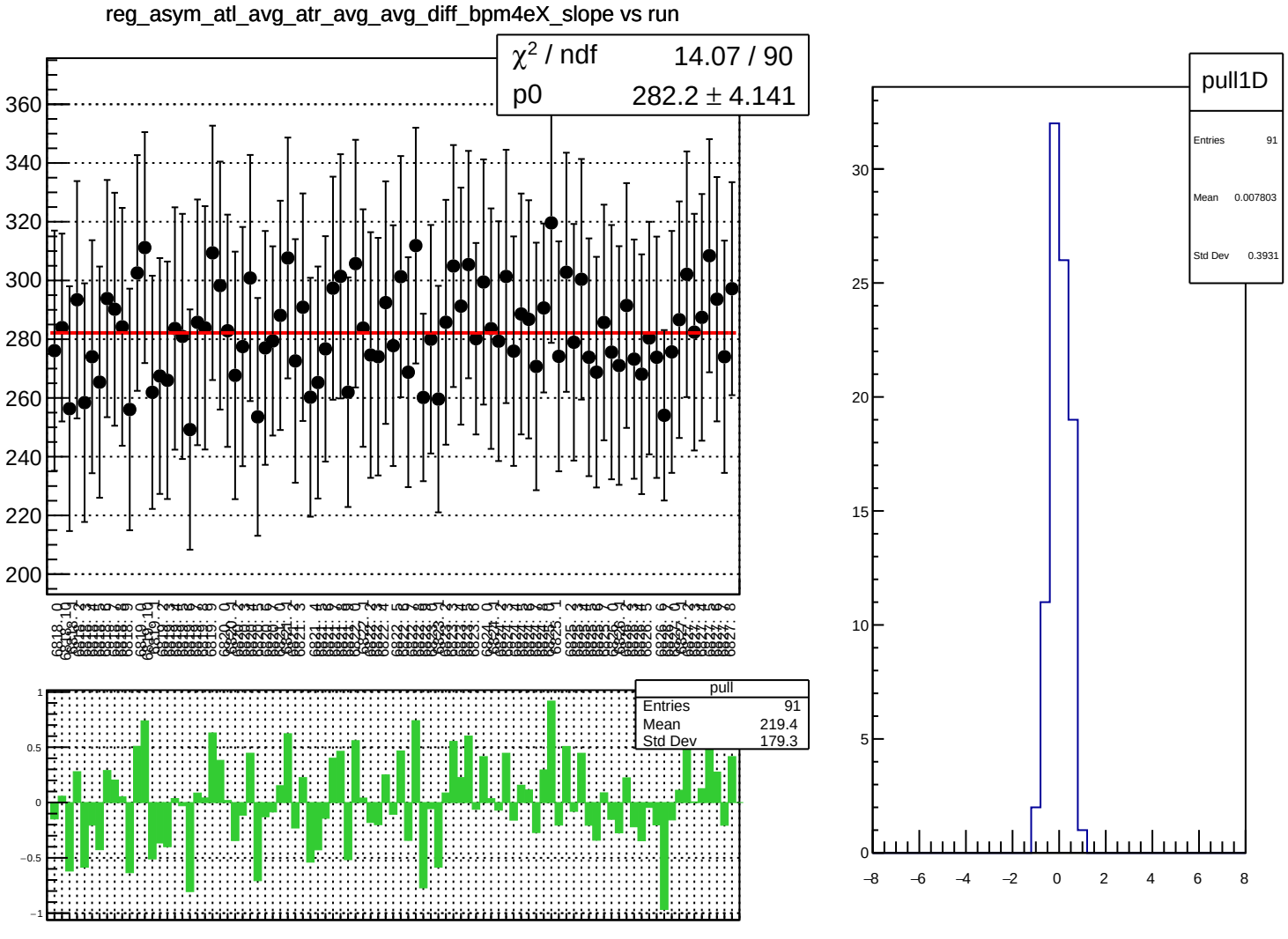

pull1D
Entries 91
Mean −0.002374
Std Dev 0.9471

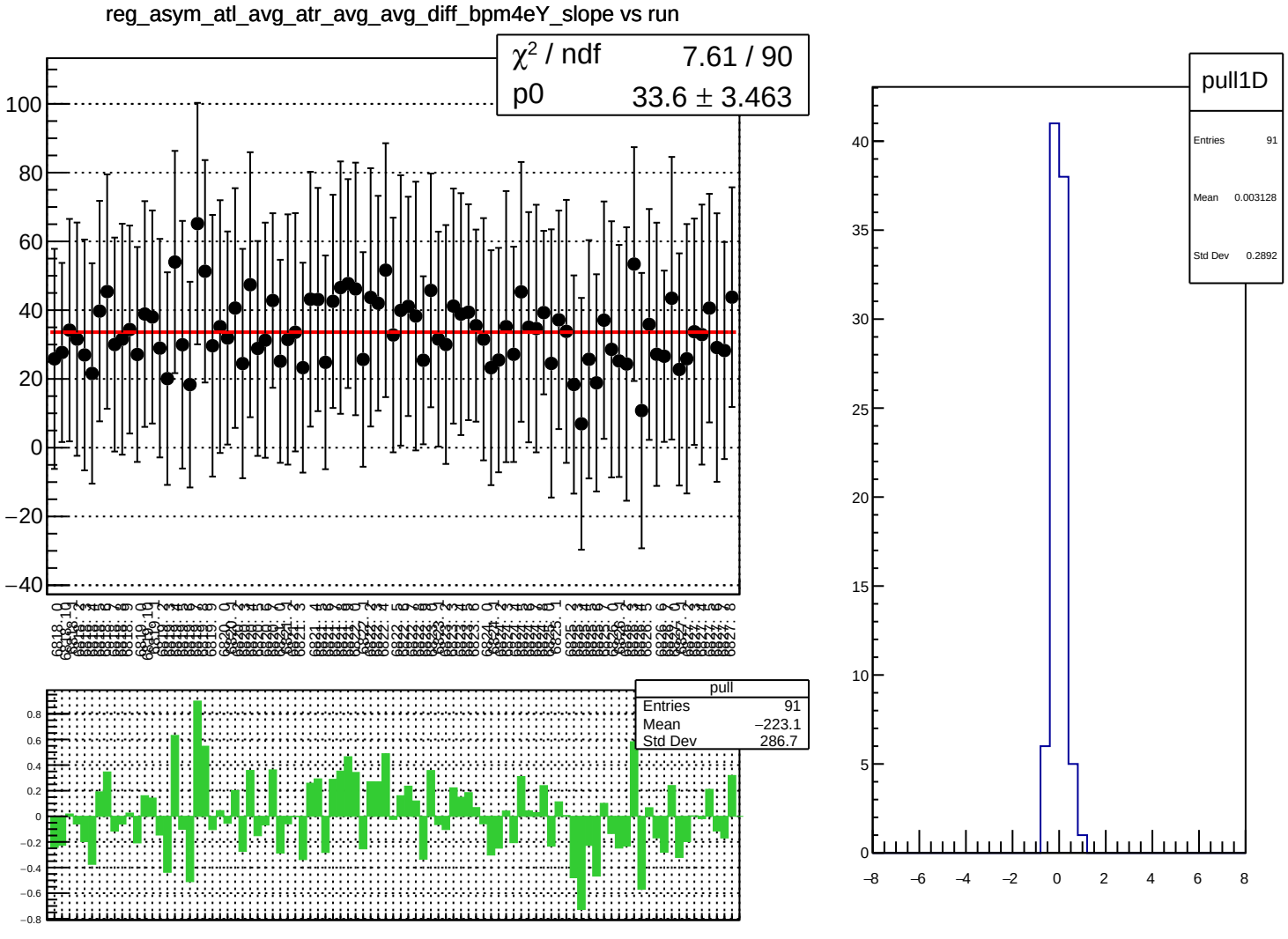

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 76.81 / 90
p0 7.299 ± 0.05958
pull
Entries 91
Mean 385.5
Std Dev 349.5
pull1D
Entries 91
Mean −0.01155
Std Dev 0.9187

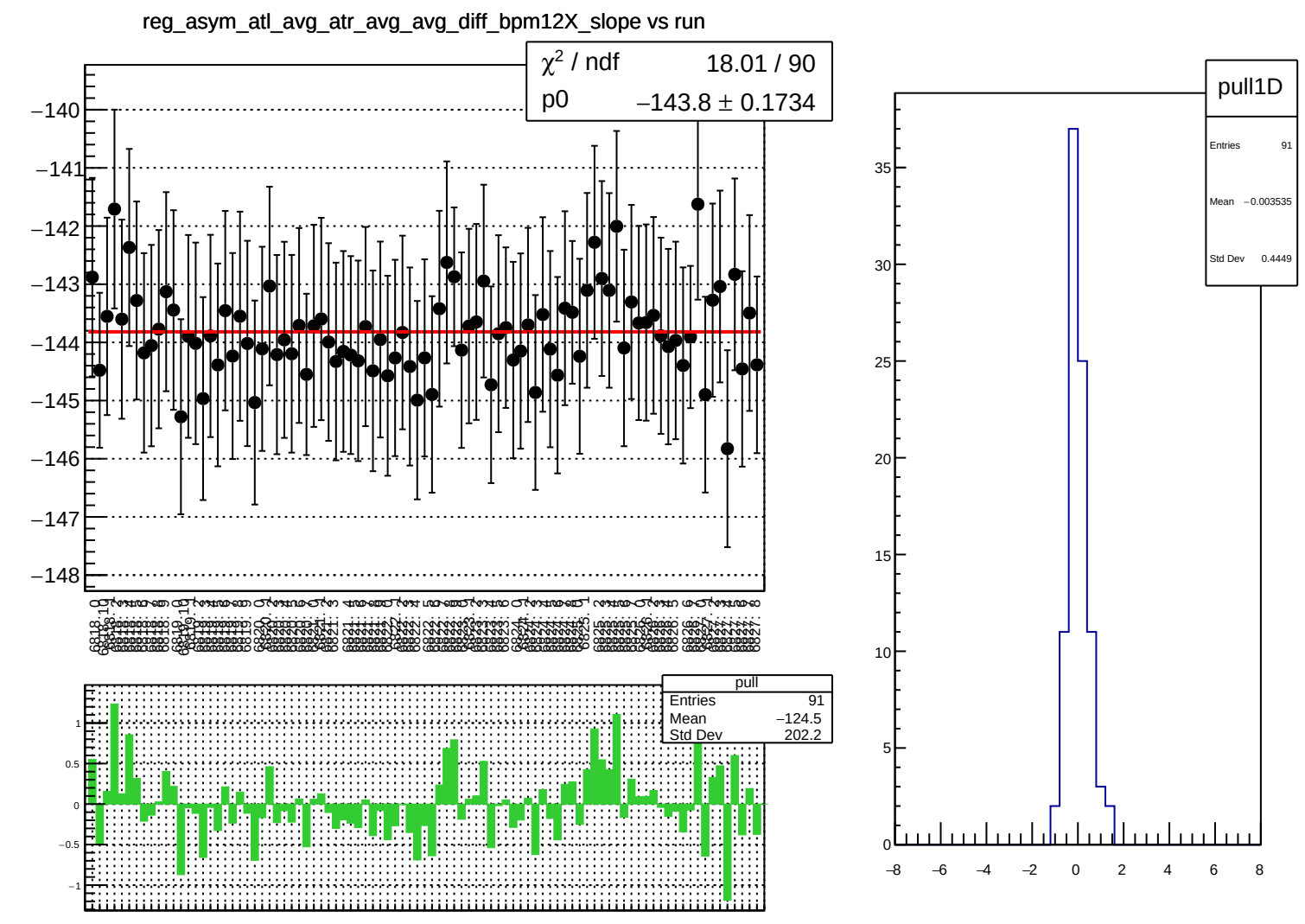

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 14.49 / 90
p0 −297.3 ± 4.428
pull
Entries 91
Mean 258.4
Std Dev 215.8

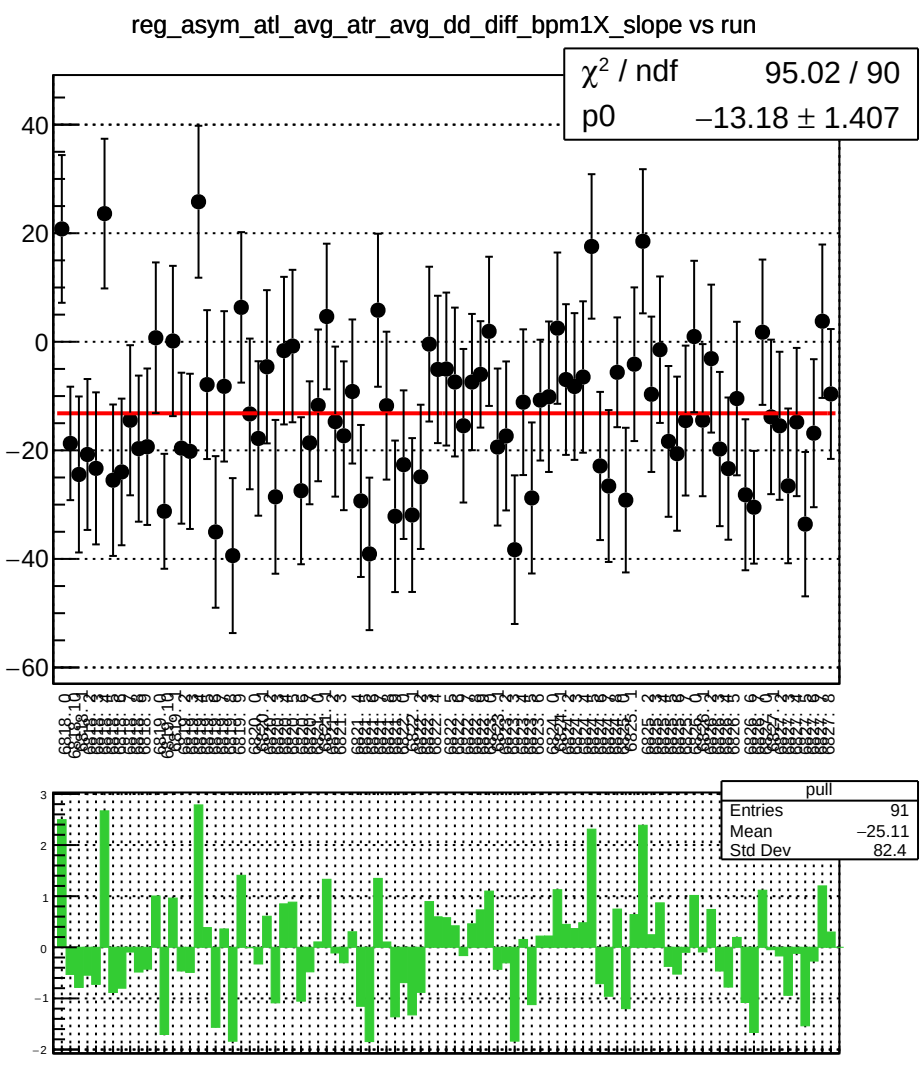

pull1D
Entries 91
Mean −0.007713
Std Dev 0.399

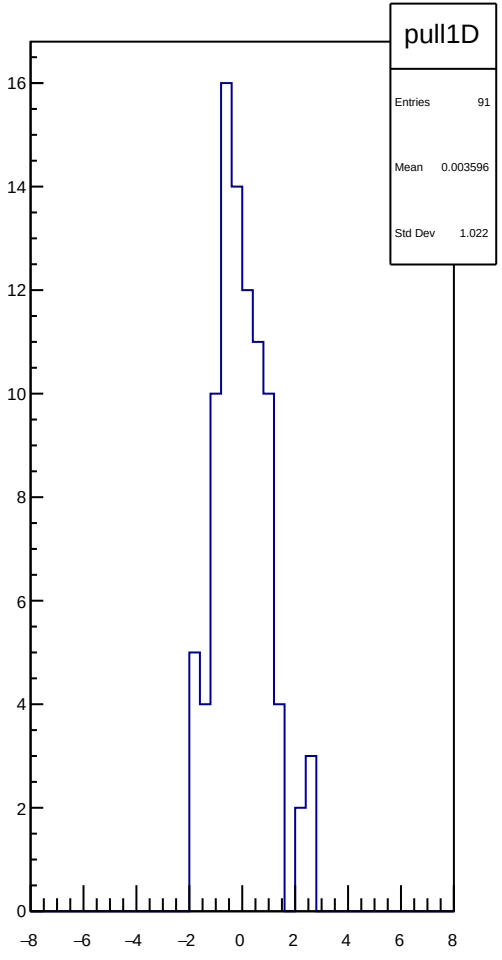

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.457 / 90
p0 23.09 ± 2.985
pull
Entries 91
Mean −153.6
Std Dev 230.3
pull1D
Entries 91
Mean −0.00224
Std Dev 0.2862

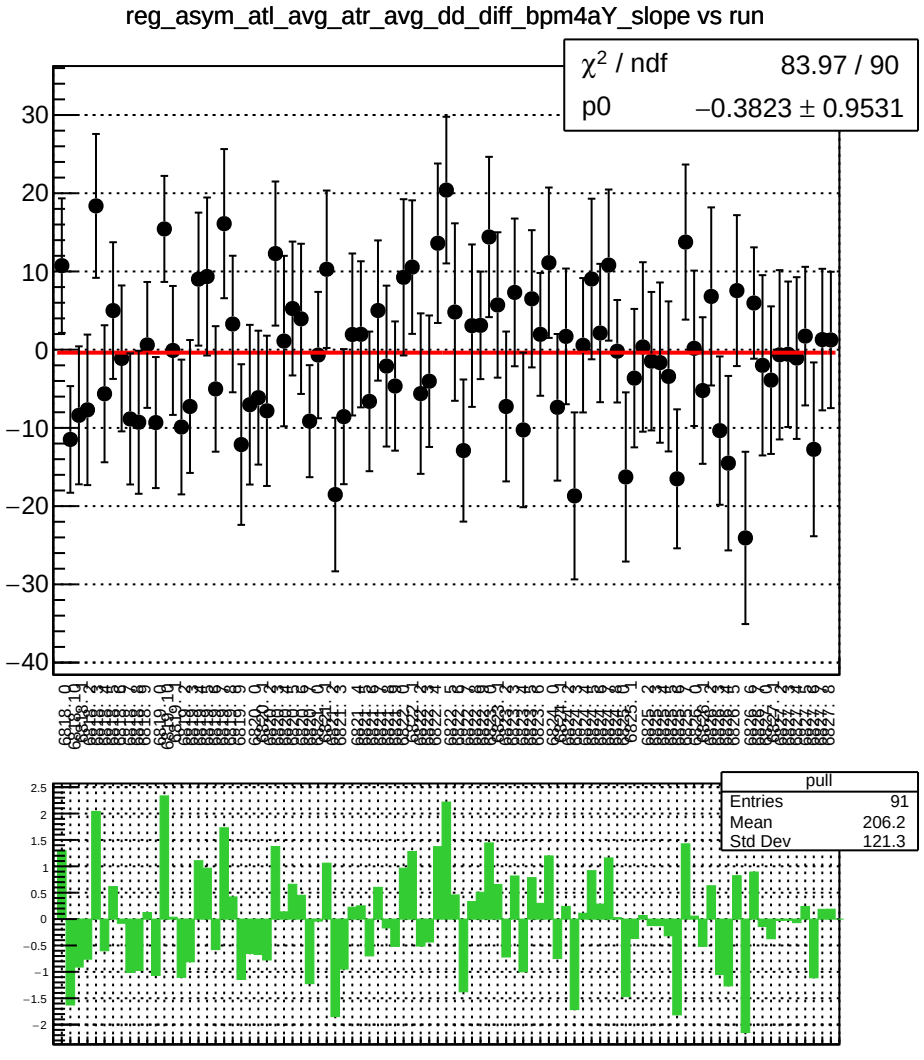

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.07 / 90
p0 282.2 ± 4.141
360
340
320
300
280
260
240
220
200
pull
Entries 91
Mean 219.4
Std Dev 179.3
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.007803
Std Dev 0.3931
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

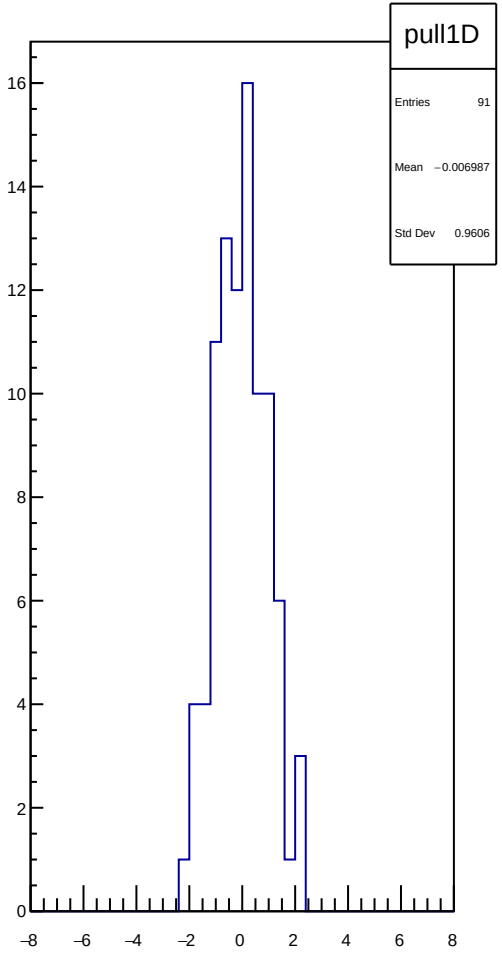

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.61 / 90
p0 33.6 ± 3.463
pull
Entries 91
Mean −223.1
Std Dev 286.7
pull1D
Entries 91
Mean 0.003128
Std Dev 0.2892

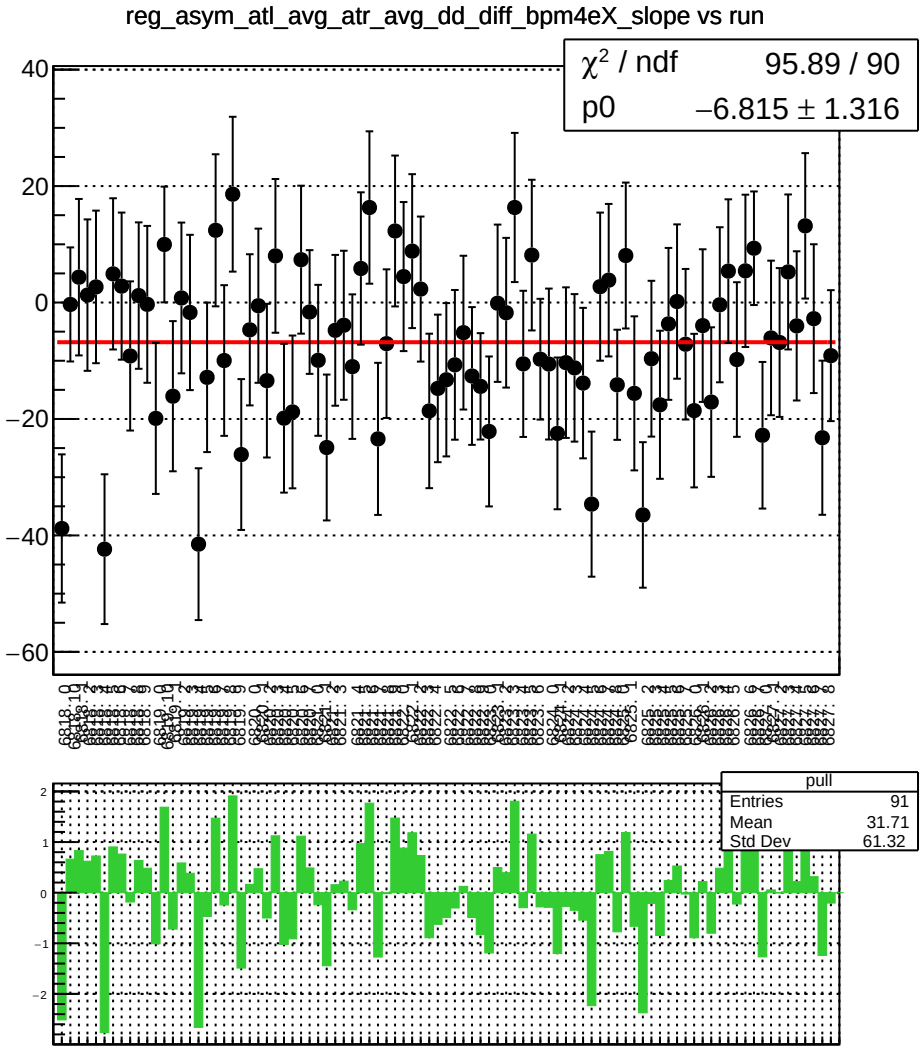

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 18.01 / 90
p0 −143.8 ± 0.1734
pull
Entries 91
Mean −124.5
Std Dev 202.2
pull1D
Entries 91
Mean −0.003535
Std Dev 0.4449

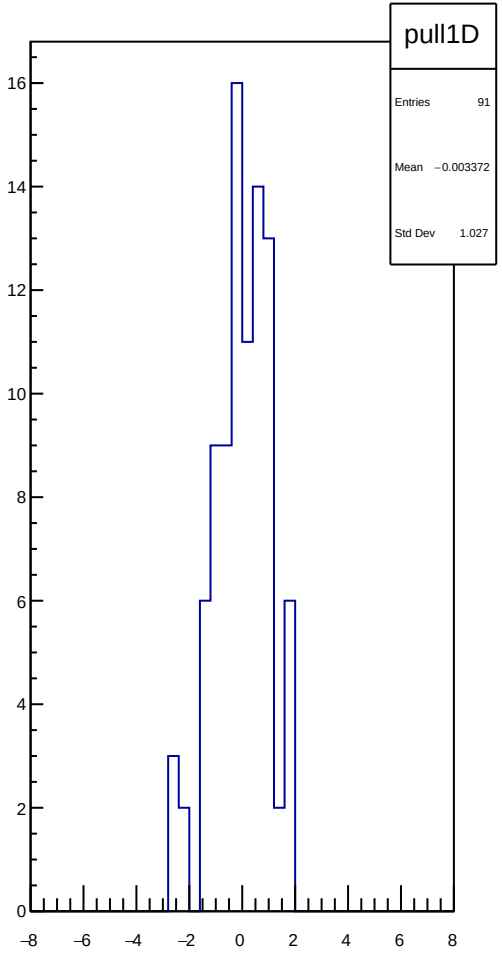

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 95.02 / 90
p0 −13.18 ± 1.407
pull
Entries 91
Mean −25.11
Std Dev 82.4

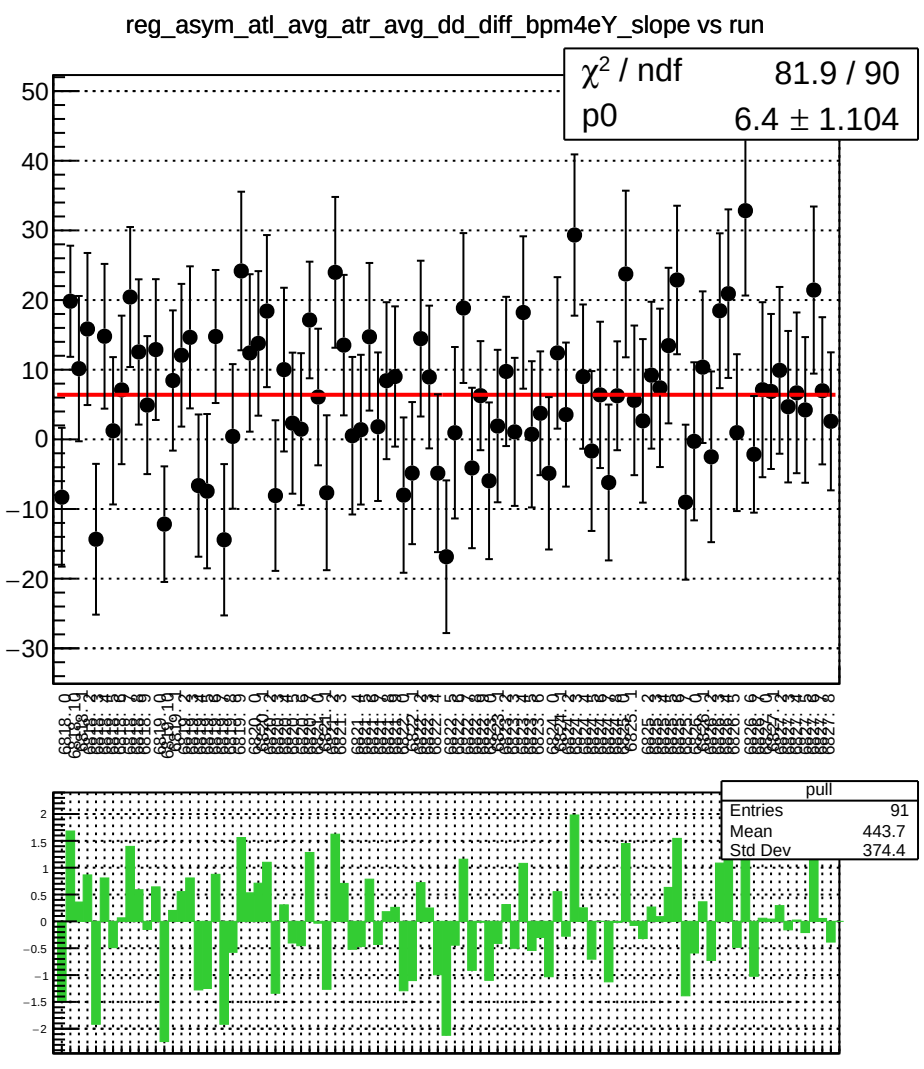

pull1D
Entries 91
Mean 0.003596
Std Dev 1.022

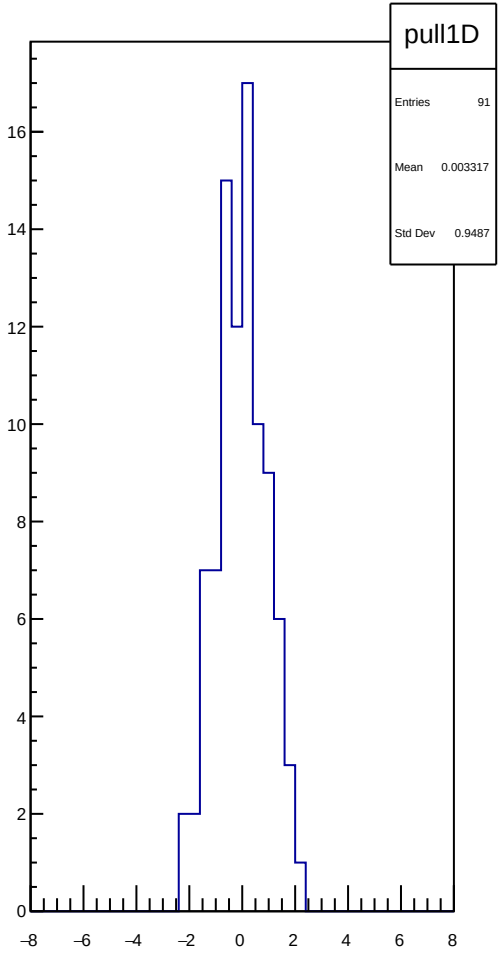

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.97 / 90
p0 −0.3823 ± 0.9531
pull
Entries 91
Mean 206.2
Std Dev 121.3

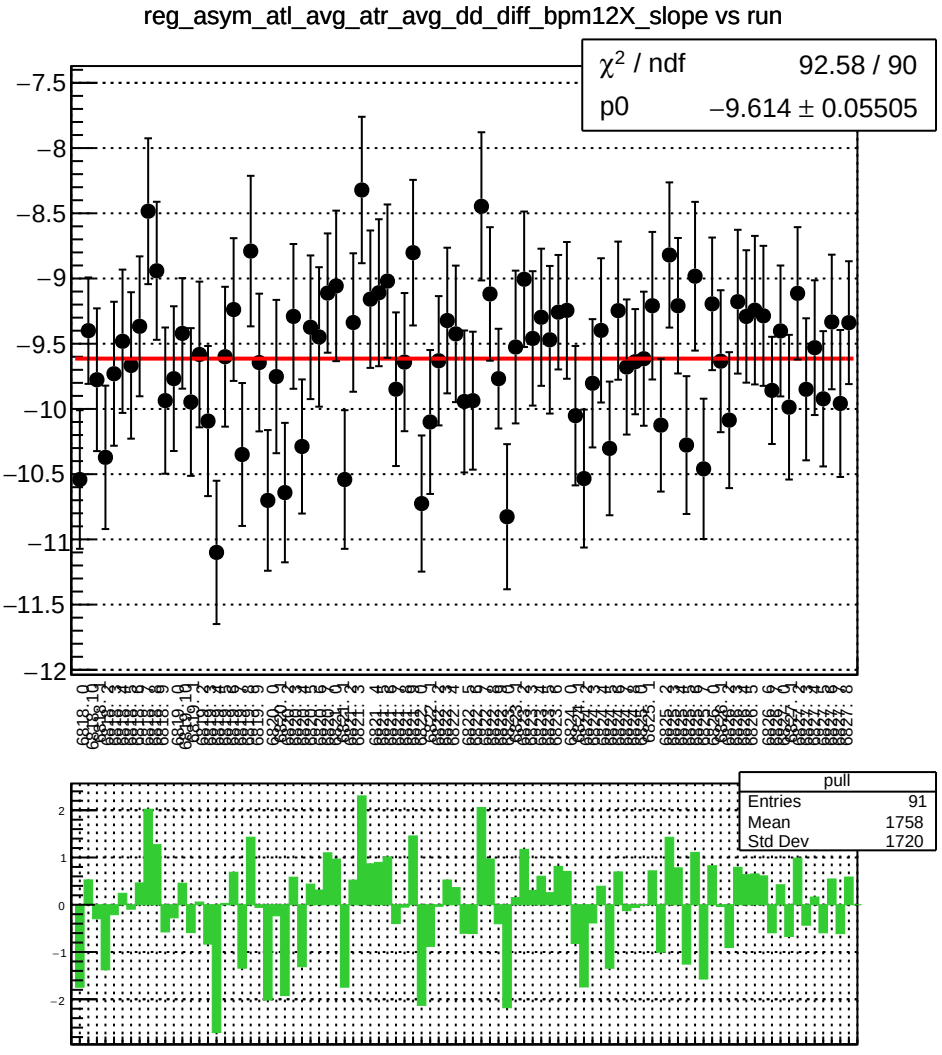

pull1D
Entries 91
Mean −0.006987
Std Dev 0.9606

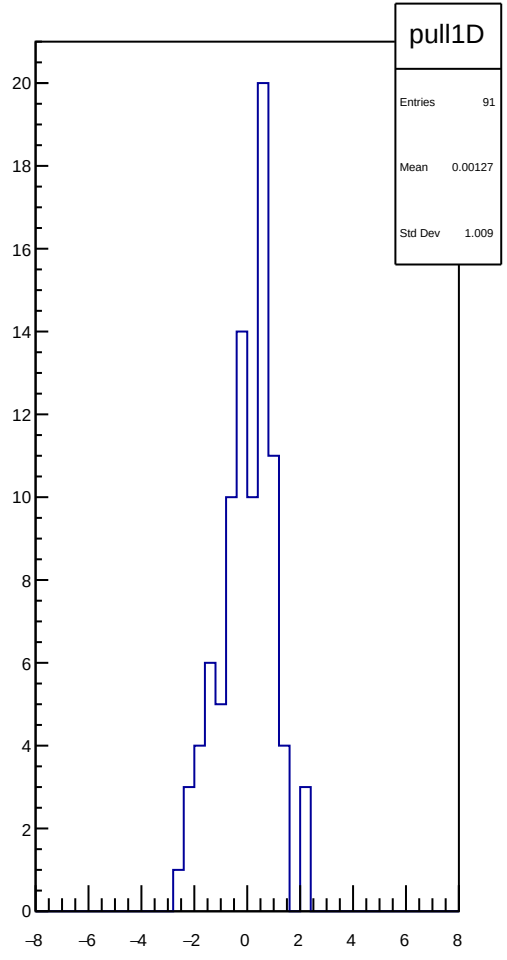

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.89 / 90
p0 −6.815 ± 1.316
pull
Entries 91
Mean 31.71
Std Dev 61.32

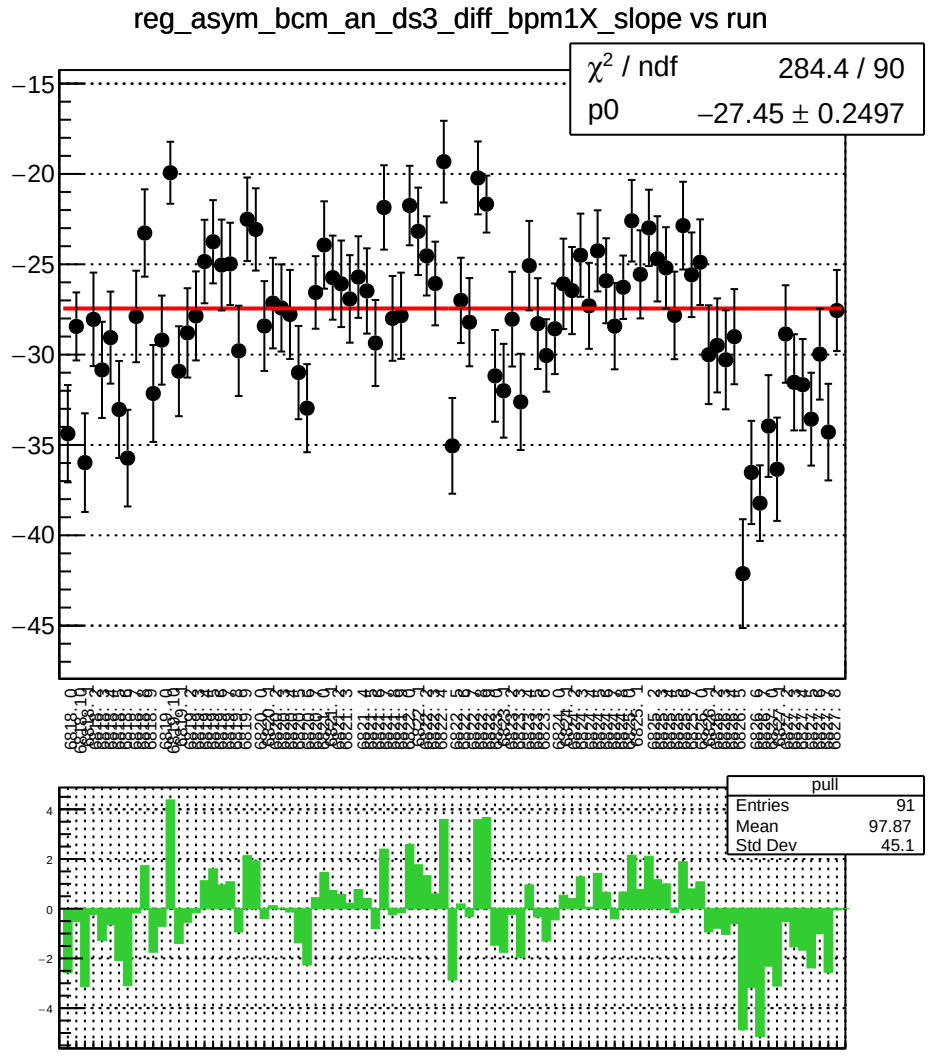

pull1D
Entries 91
Mean −0.003372
Std Dev 1.027

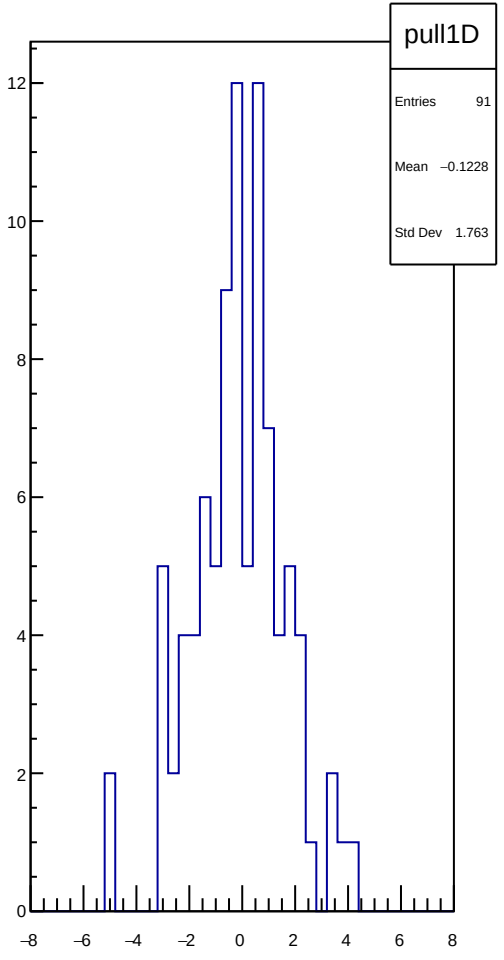

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.9 / 90
p0 6.4 ± 1.104
pull
Entries 91
Mean 443.7
Std Dev 374.4

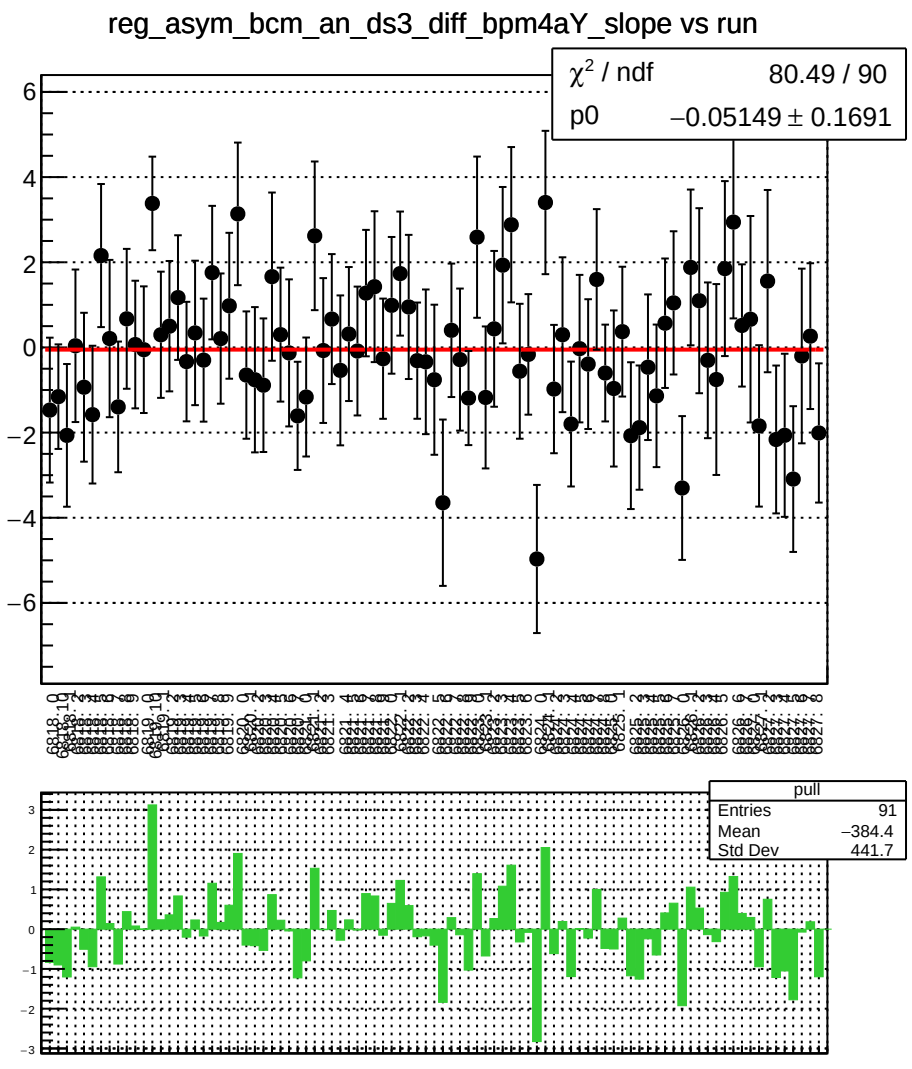

pull1D
Entries 91
Mean 0.003317
Std Dev 0.9487

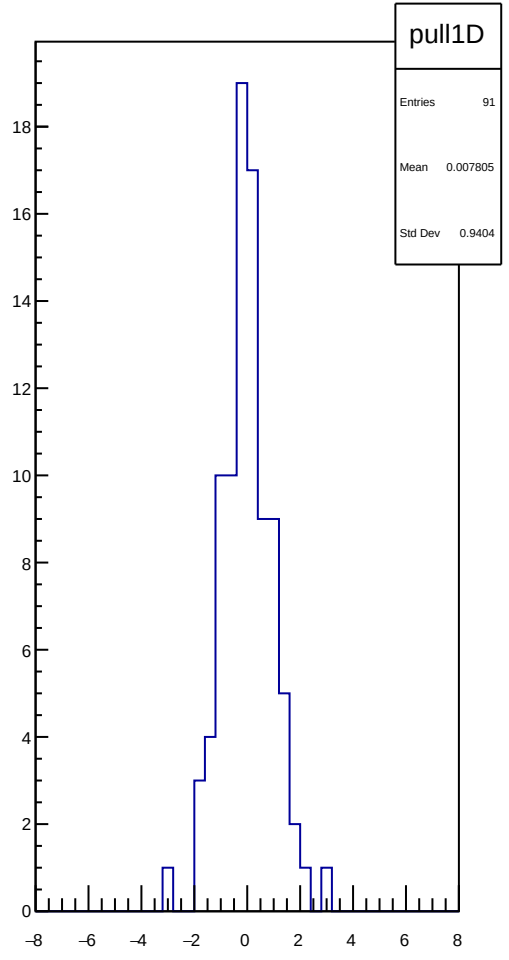

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 92.58 / 90
p0 −9.614 ± 0.05505
pull
Entries 91
Mean 1758
Std Dev 1720

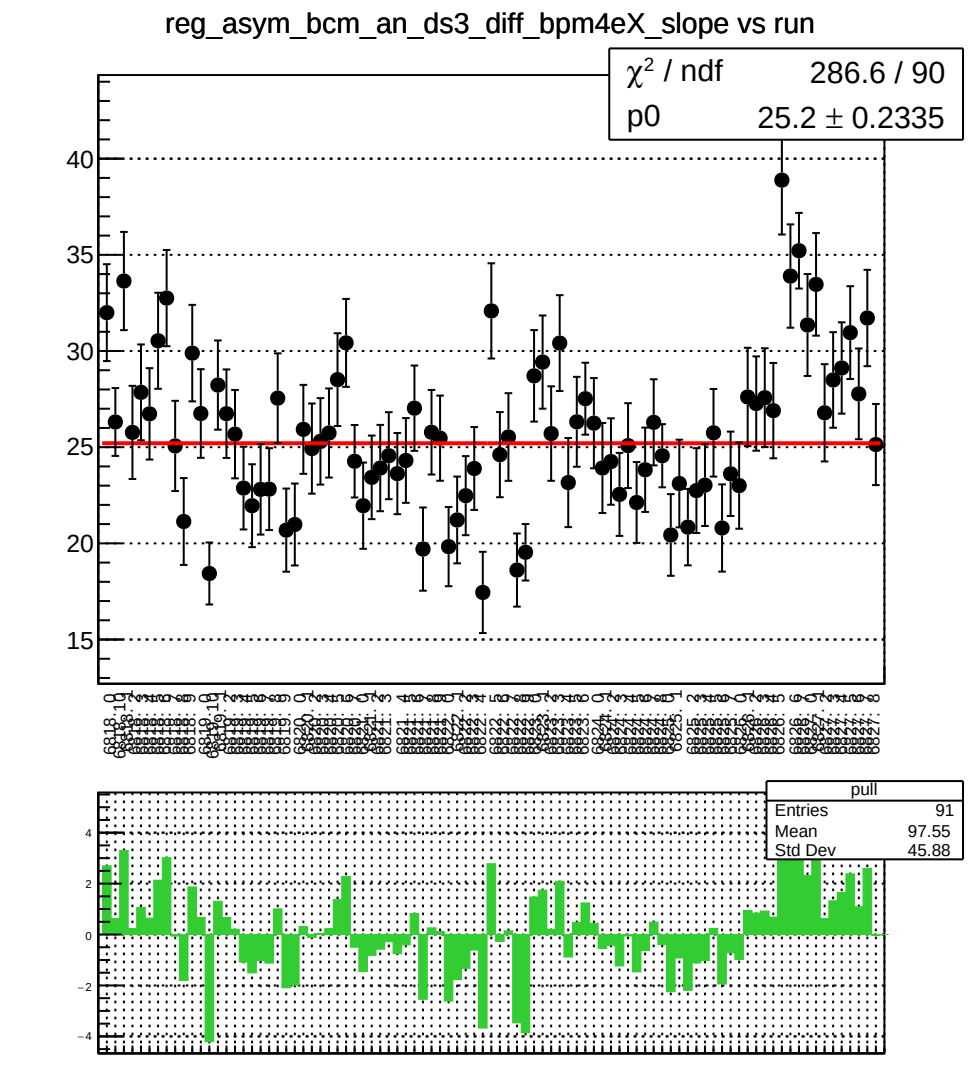

pull1D
Entries 91
Mean 0.00127
Std Dev 1.009

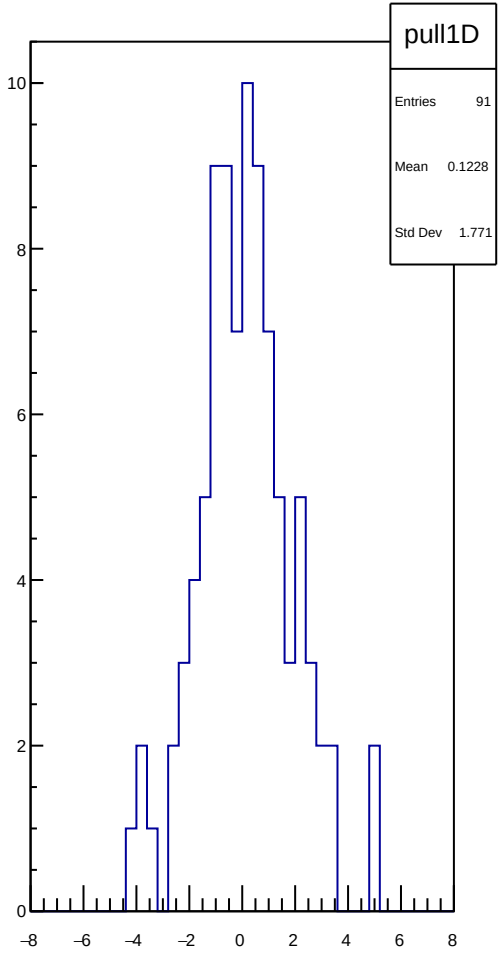

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 284.4 / 90
p0 −27.45 ± 0.2497
pull
Entries 91
Mean 97.87
Std Dev 45.1

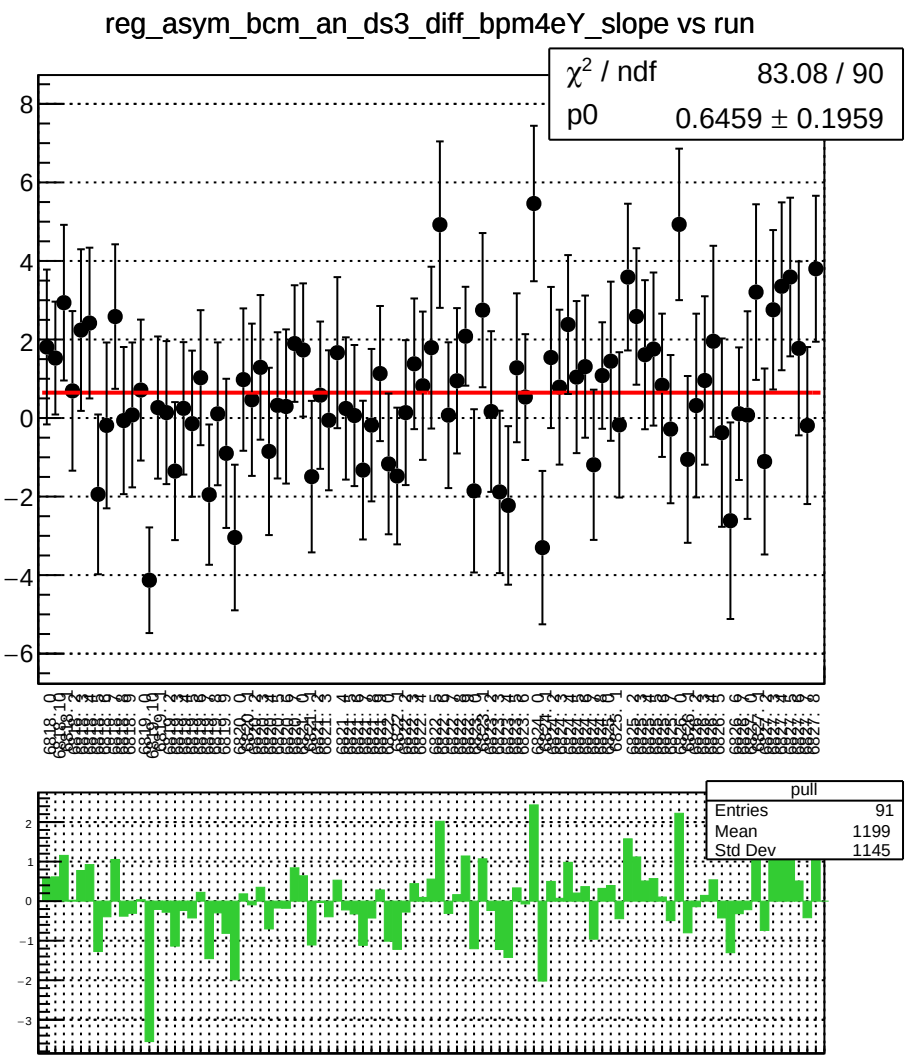

pull1D
Entries 91
Mean −0.1228
Std Dev 1.763

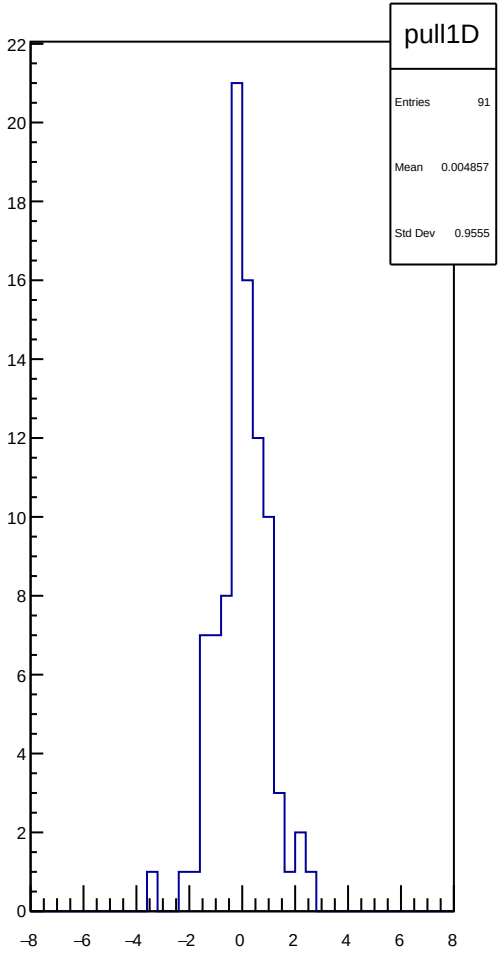

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 80.49 / 90
p0 −0.05149 ± 0.1691
pull
Entries 91
Mean −384.4
Std Dev 441.7

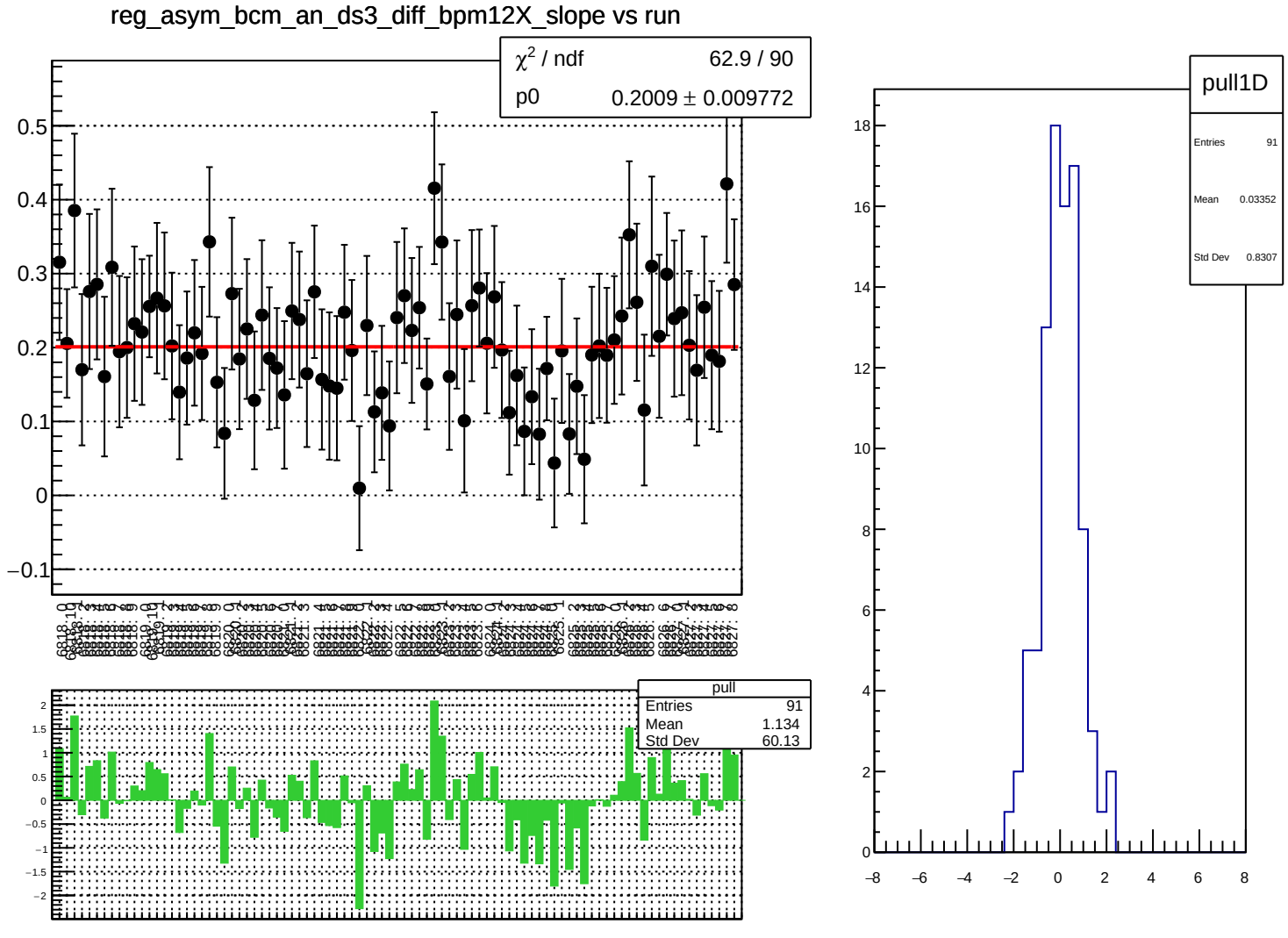

pull1D
Entries 91
Mean 0.007805
Std Dev 0.9404

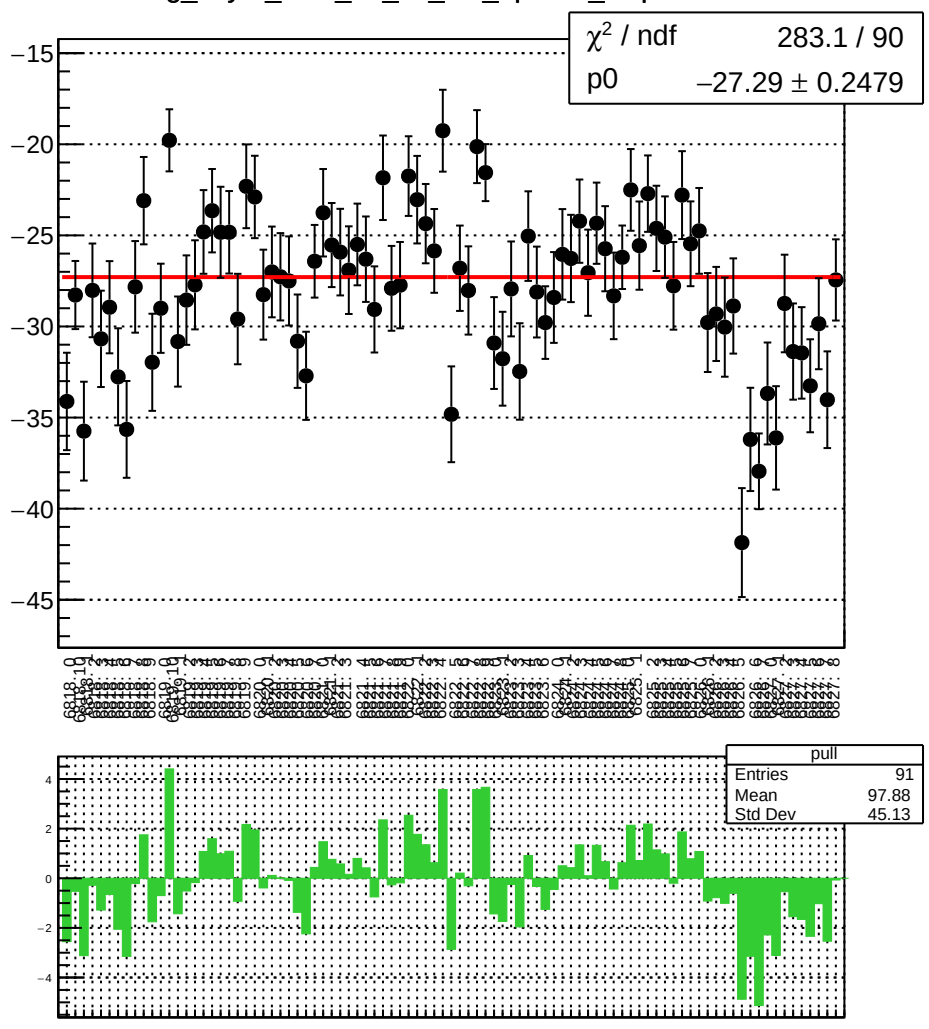

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 286.6 / 90
p0 25.2 ± 0.2335
pull
Entries 91
Mean 97.55
Std Dev 45.88

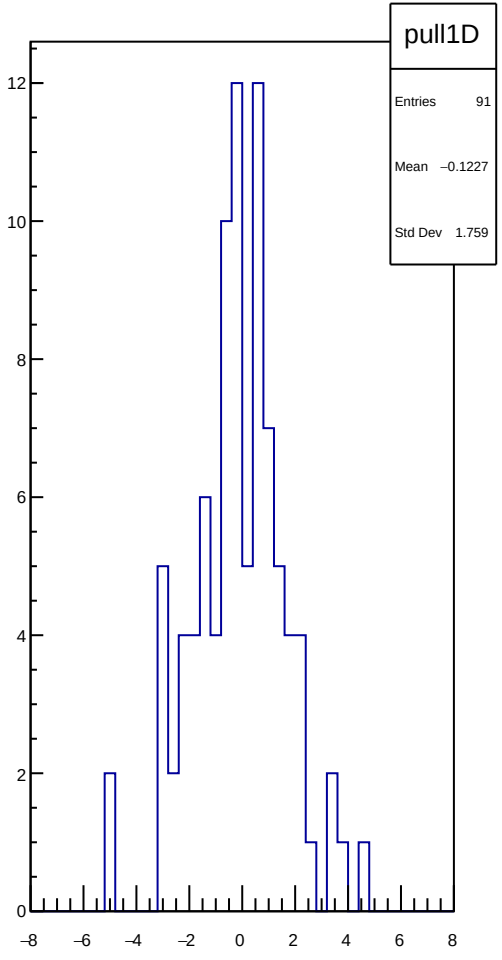

pull1D
Entries 91
Mean 0.1228
Std Dev 1.771

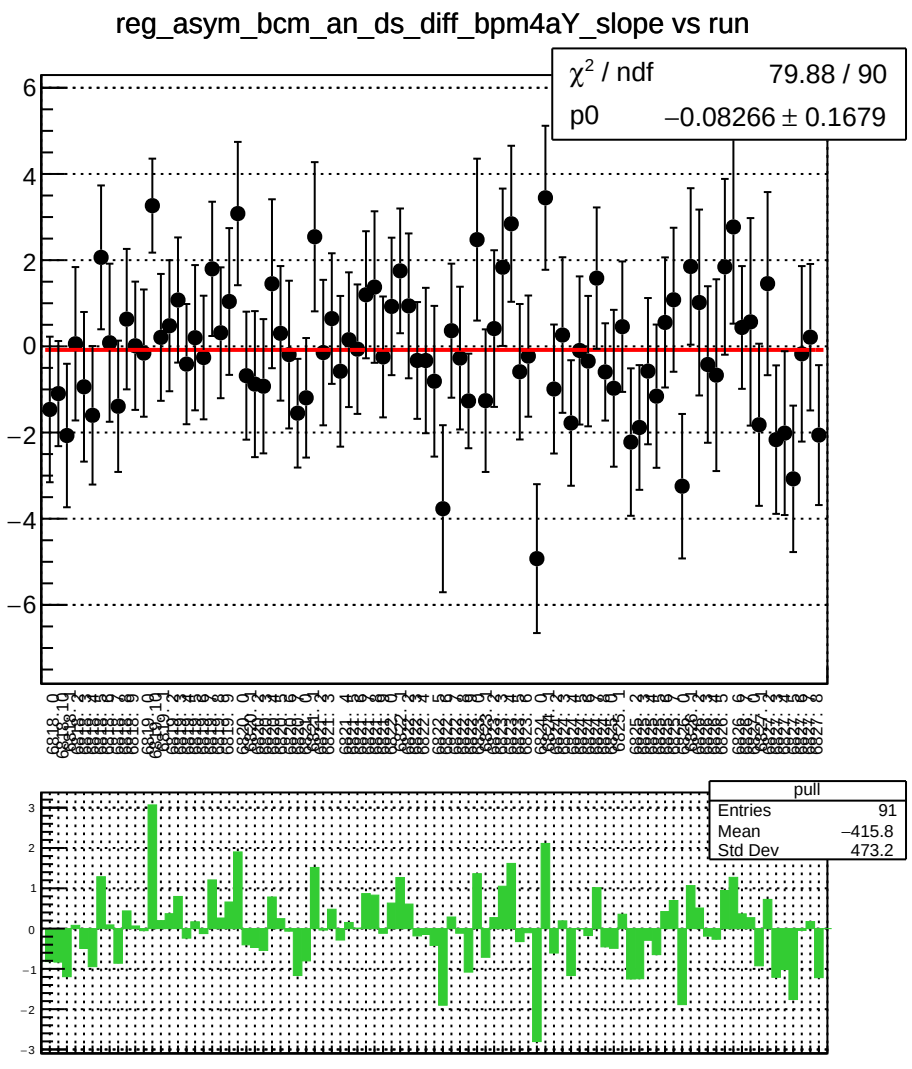

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 83.08 / 90
p0 0.6459 ± 0.1959
pull
Entries 91
Mean 1199
Std Dev 1145

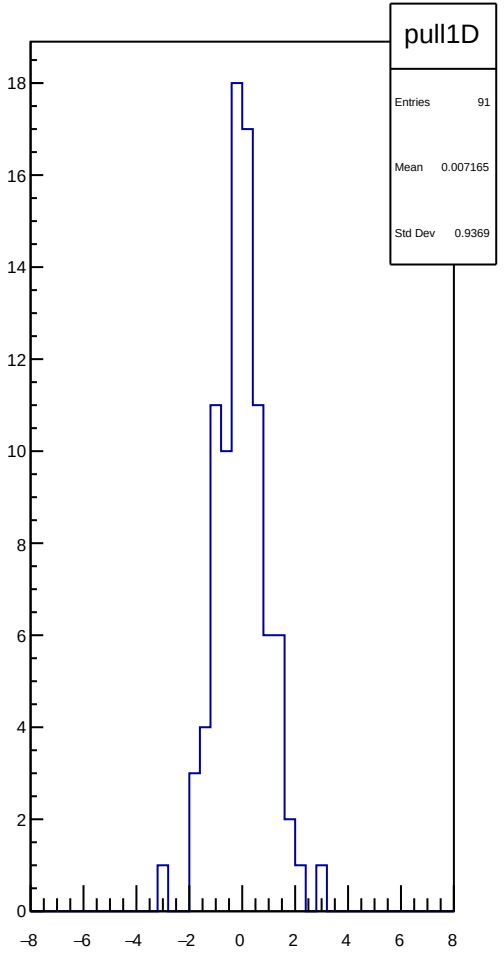

pull1D
Entries 91
Mean 0.004857
Std Dev 0.9555

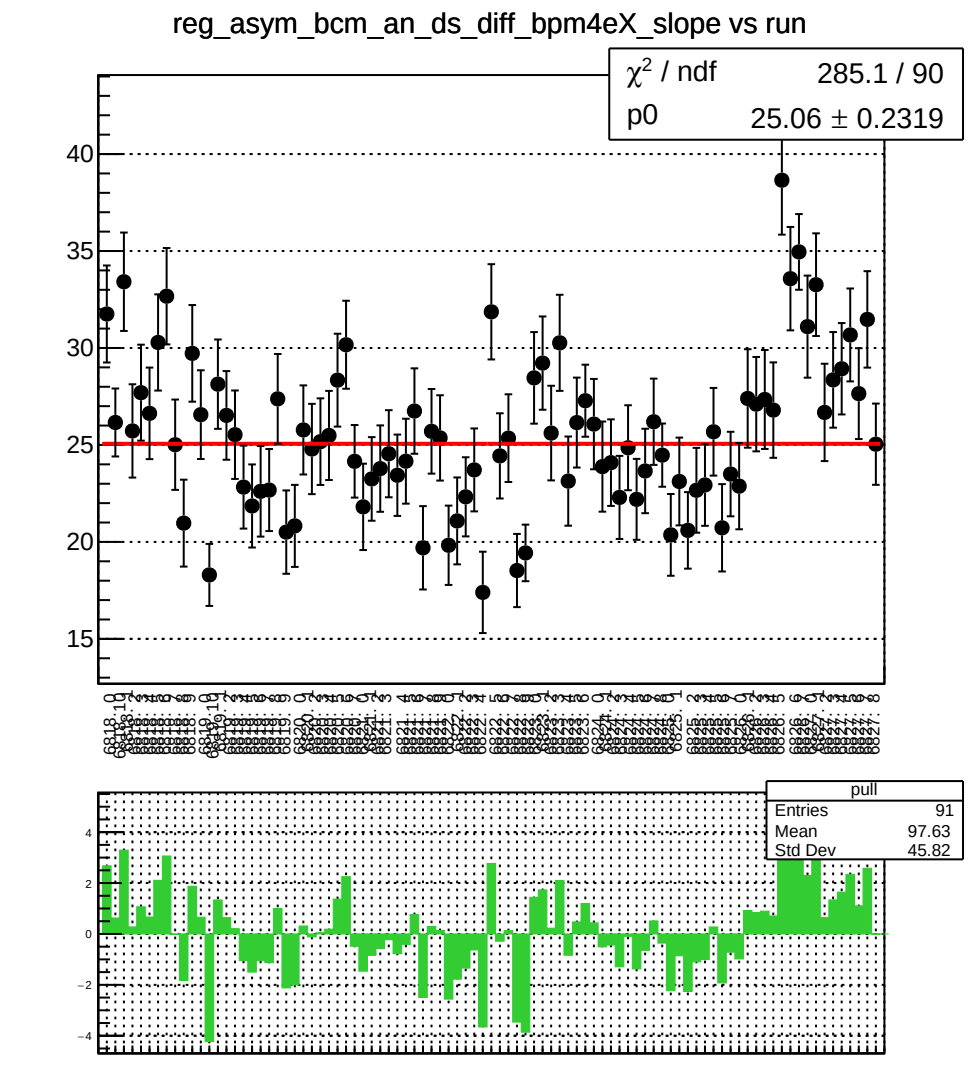

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 62.9 / 90
p0 0.2009 ± 0.009772
pull
Entries 91
Mean 1.134
Std Dev 60.13
pull1D
Entries 91
Mean 0.03352
Std Dev 0.8307

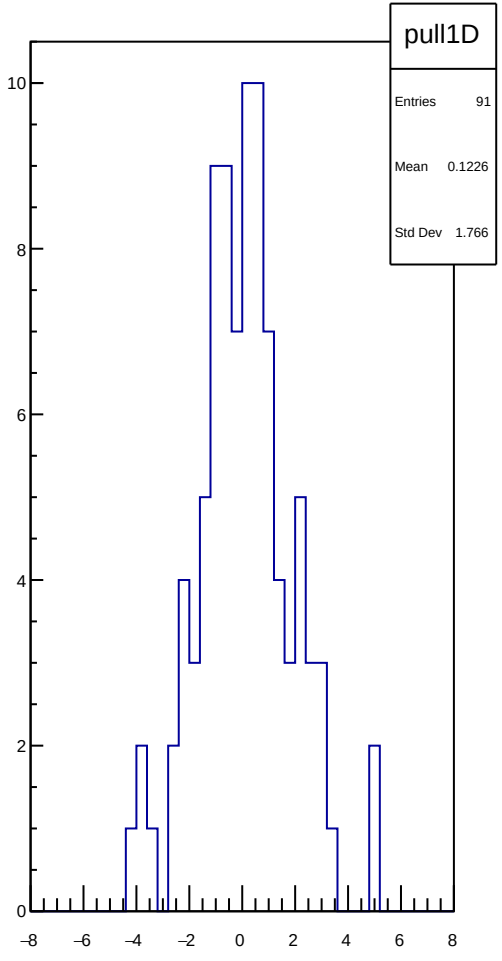

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 283.1 / 90
p0 −27.29 ± 0.2479
pull
Entries 91
Mean 97.88
Std Dev 45.13

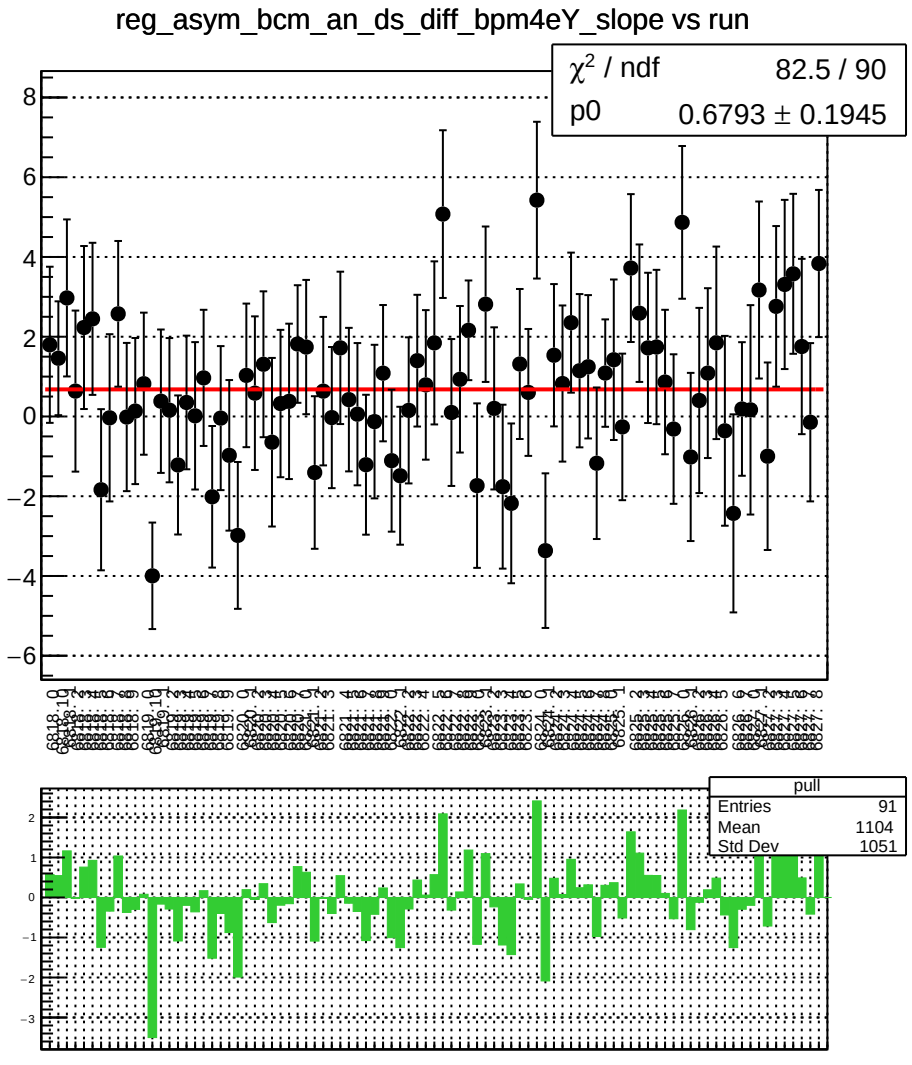

pull1D
Entries 91
Mean −0.1227
Std Dev 1.759

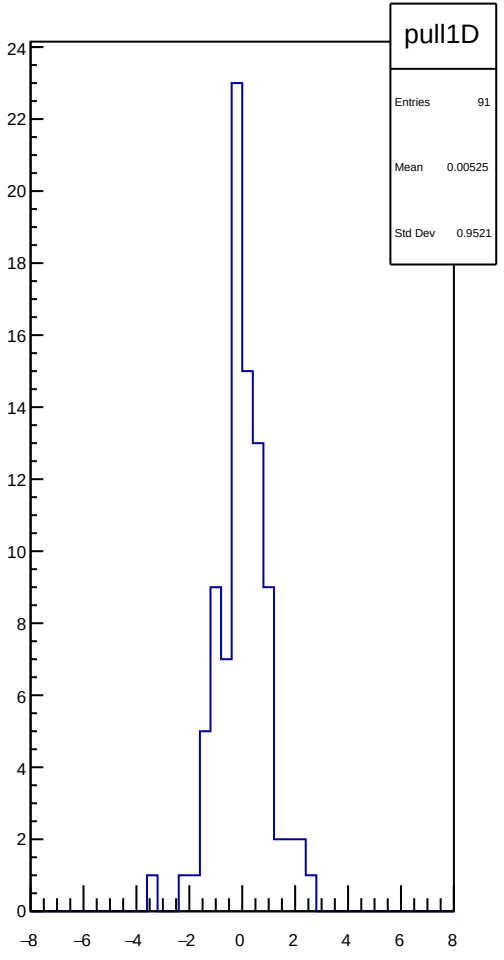

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 79.88 / 90
p0 −0.08266 ± 0.1679
pull
Entries 91
Mean −415.8
Std Dev 473.2

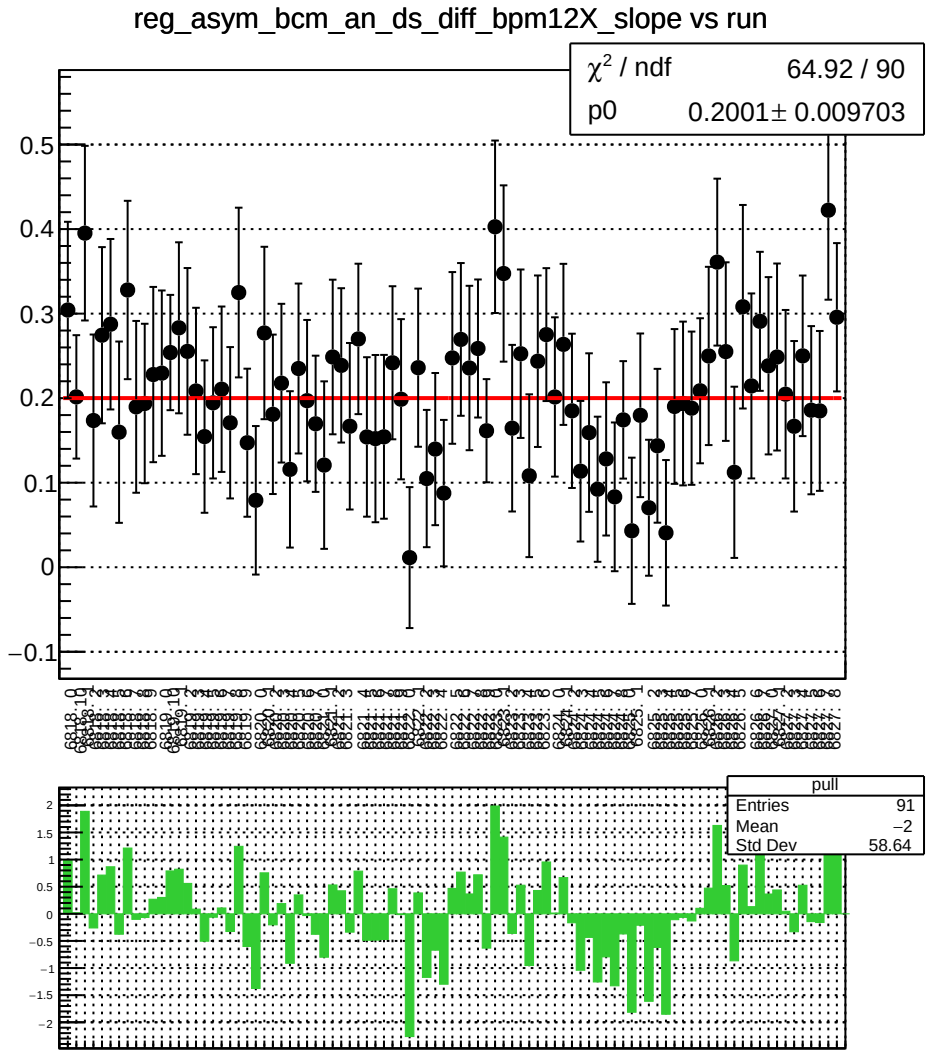

pull1D
Entries 91
Mean 0.007165
Std Dev 0.9369

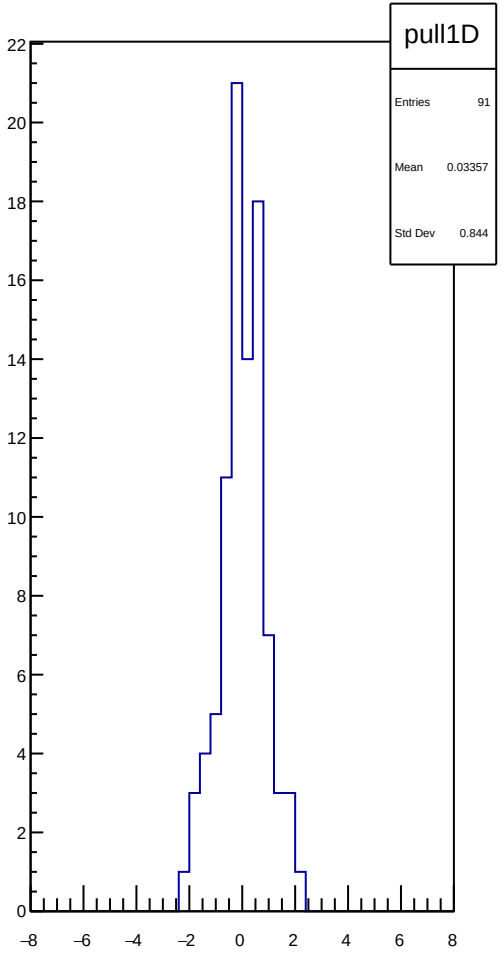

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 285.1 / 90
p0 25.06 ± 0.2319
pull
Entries 91
Mean 97.63
Std Dev 45.82

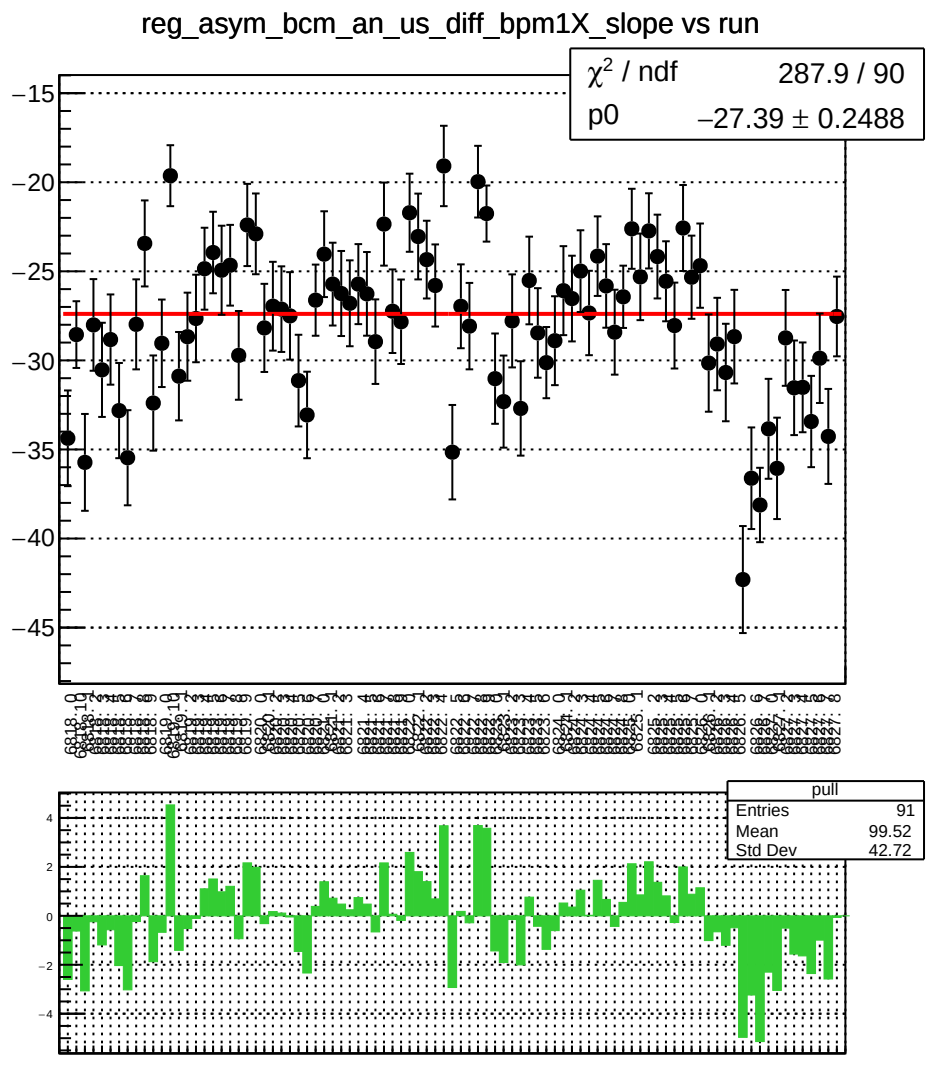

pull1D
Entries 91
Mean 0.1226
Std Dev 1.766

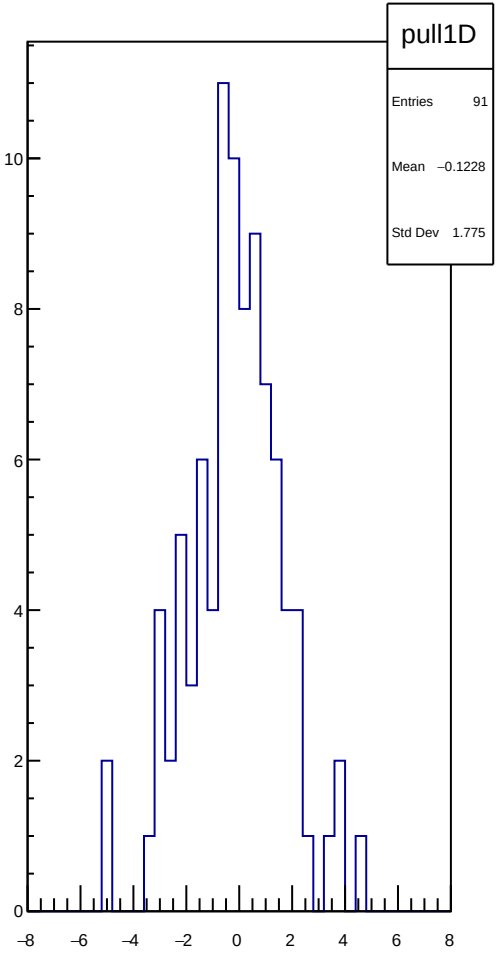

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 82.5 / 90
p0 0.6793 ± 0.1945
pull
Entries 91
Mean 1104
Std Dev 1051

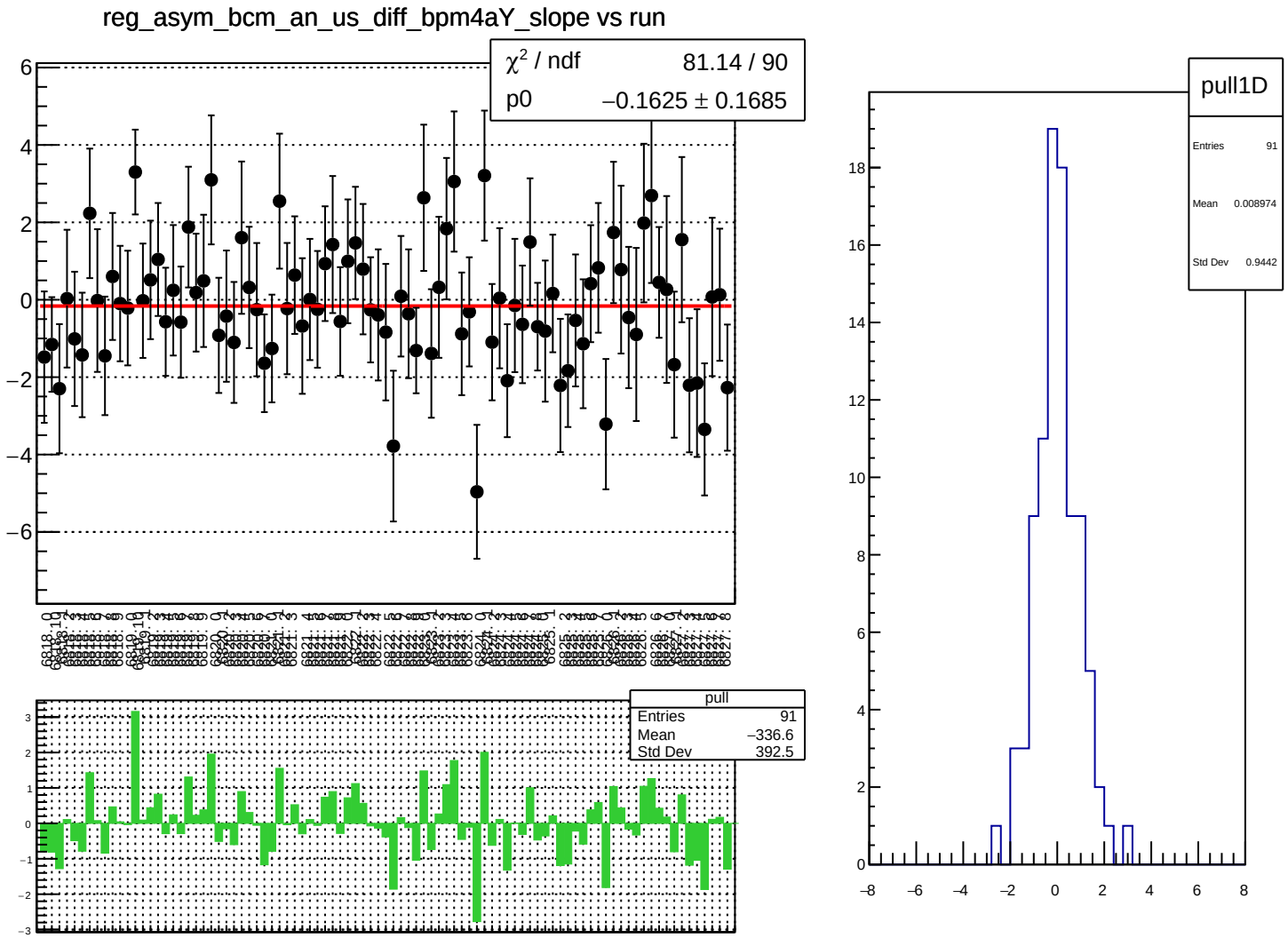

pull1D
Entries 91
Mean 0.00525
Std Dev 0.9521

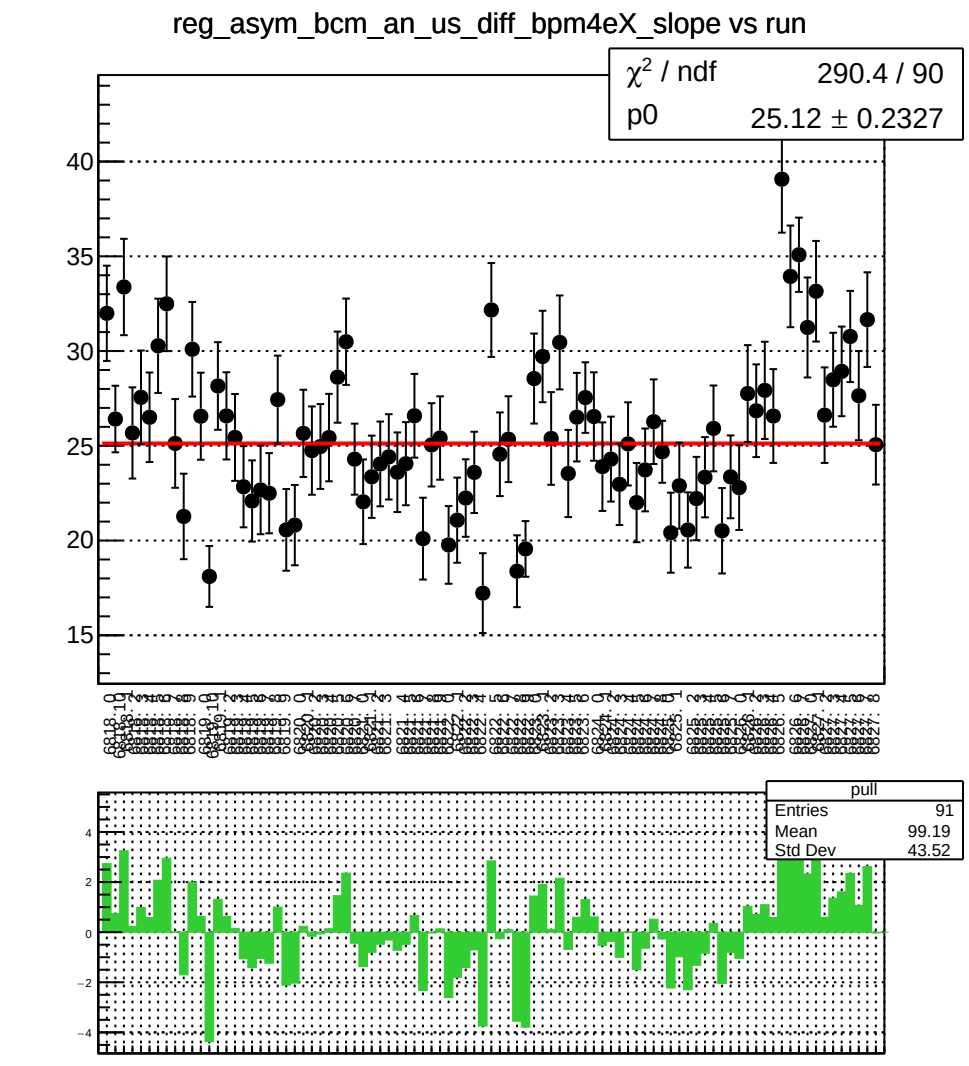

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 64.92 / 90
p0 0.2001± 0.009703
pull
Entries 91
Mean −2
Std Dev 58.64

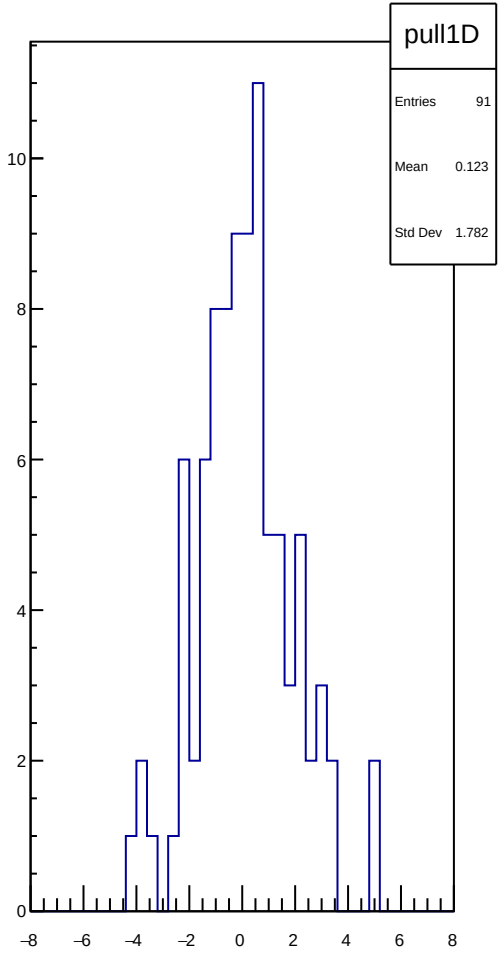

pull1D
Entries 91
Mean 0.03357
Std Dev 0.844

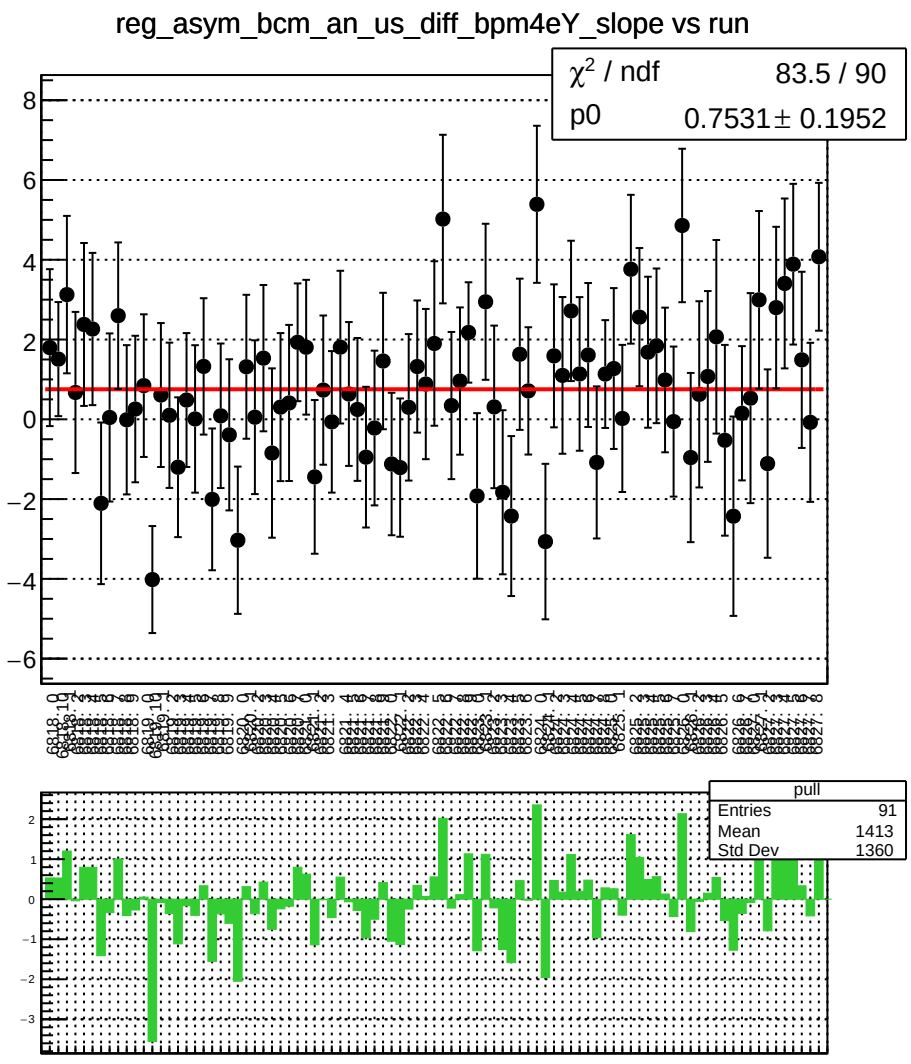

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 287.9 / 90
p0 −27.39 ± 0.2488
pull
Entries 91
Mean 99.52
Std Dev 42.72

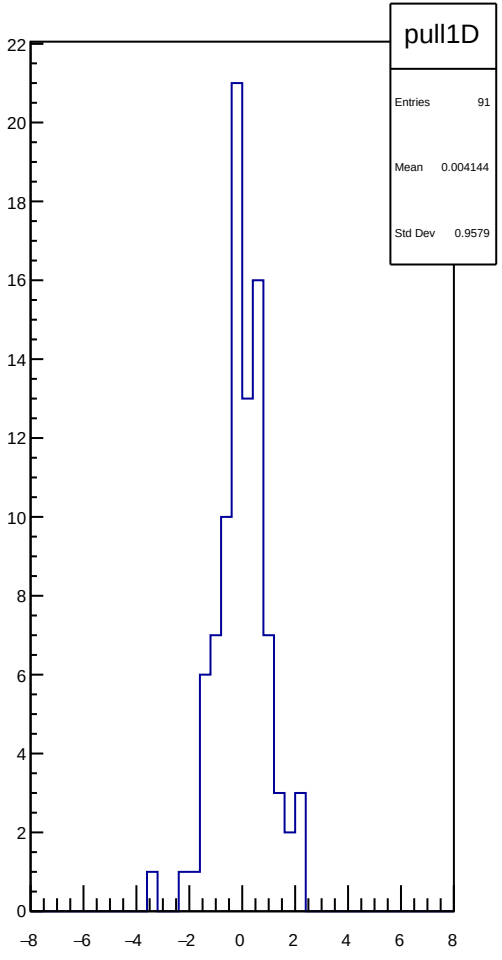

pull1D
Entries 91
Mean −0.1228
Std Dev 1.775

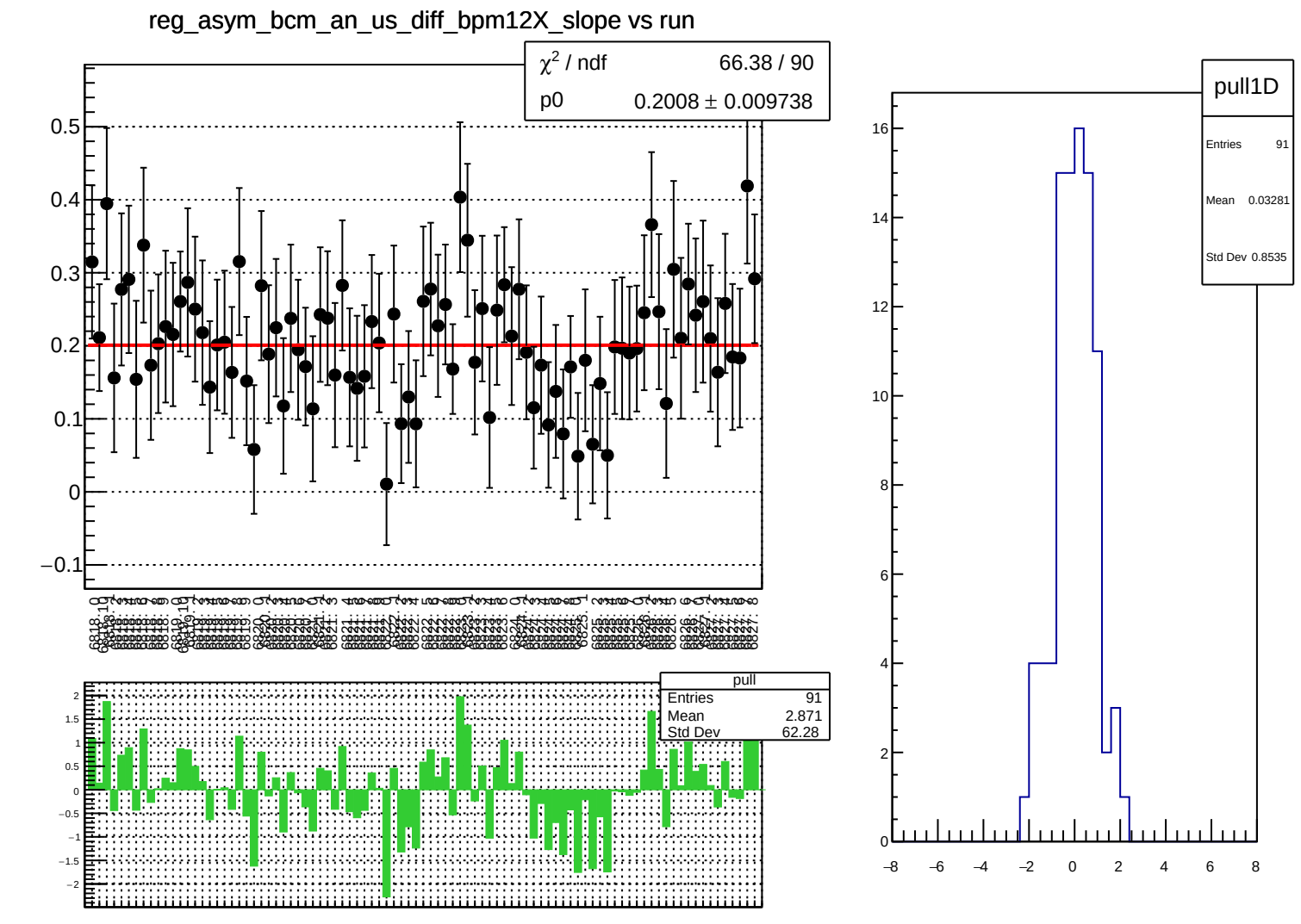

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 81.14 / 90
p0 −0.1625 ± 0.1685
pull
Entries 91
Mean −336.6
Std Dev 392.5
pull1D
Entries 91
Mean 0.008974
Std Dev 0.9442

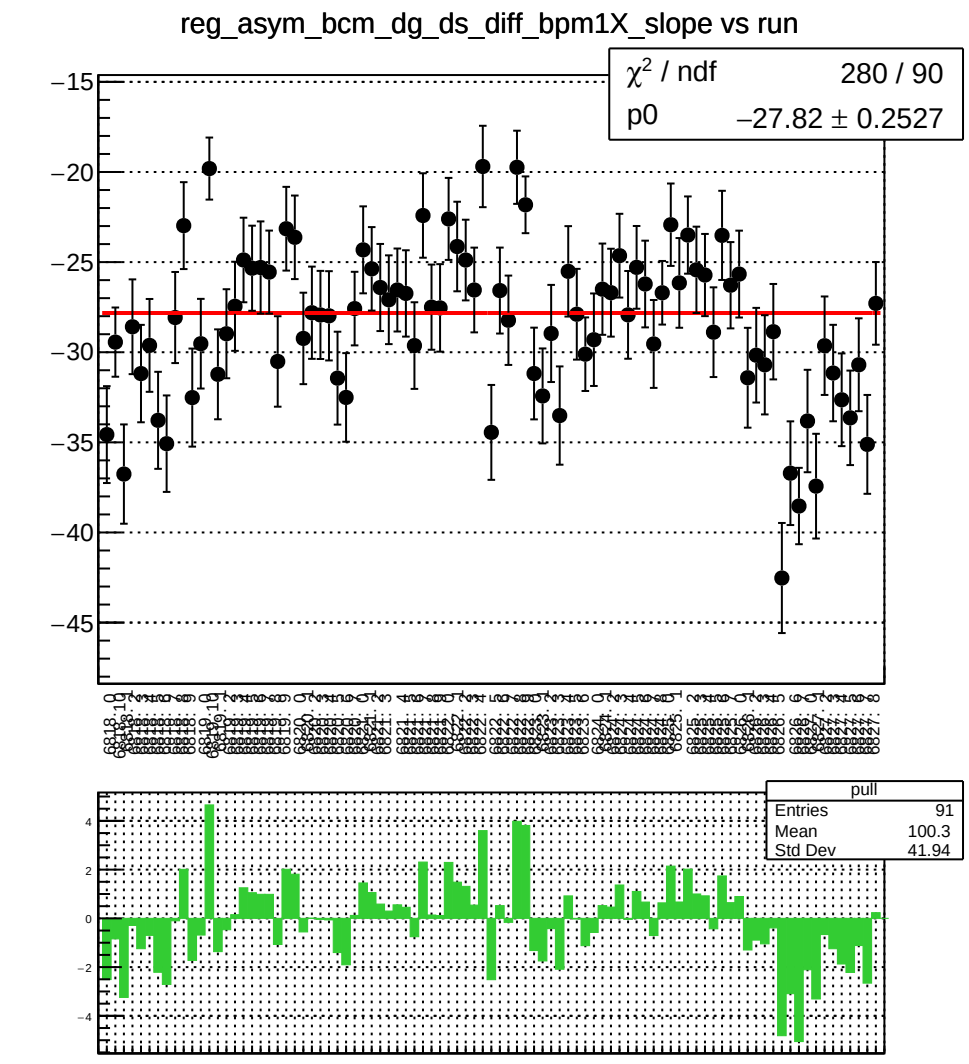

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 290.4 / 90
p0 25.12 ± 0.2327
40
35
30
25
20
15
pull
Entries 91
Mean 99.19
Std Dev 43.52
4
2
0
−2
−4

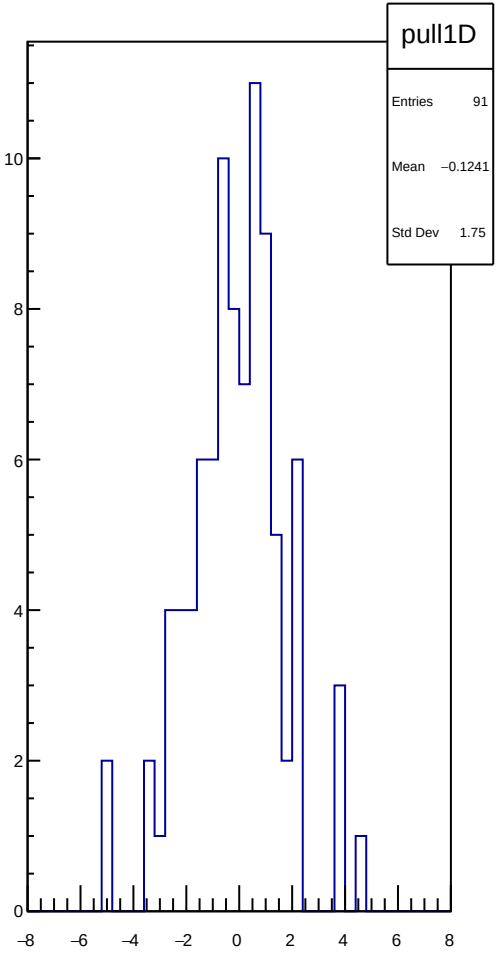

pull1D
Entries 91
Mean 0.123
Std Dev 1.782
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

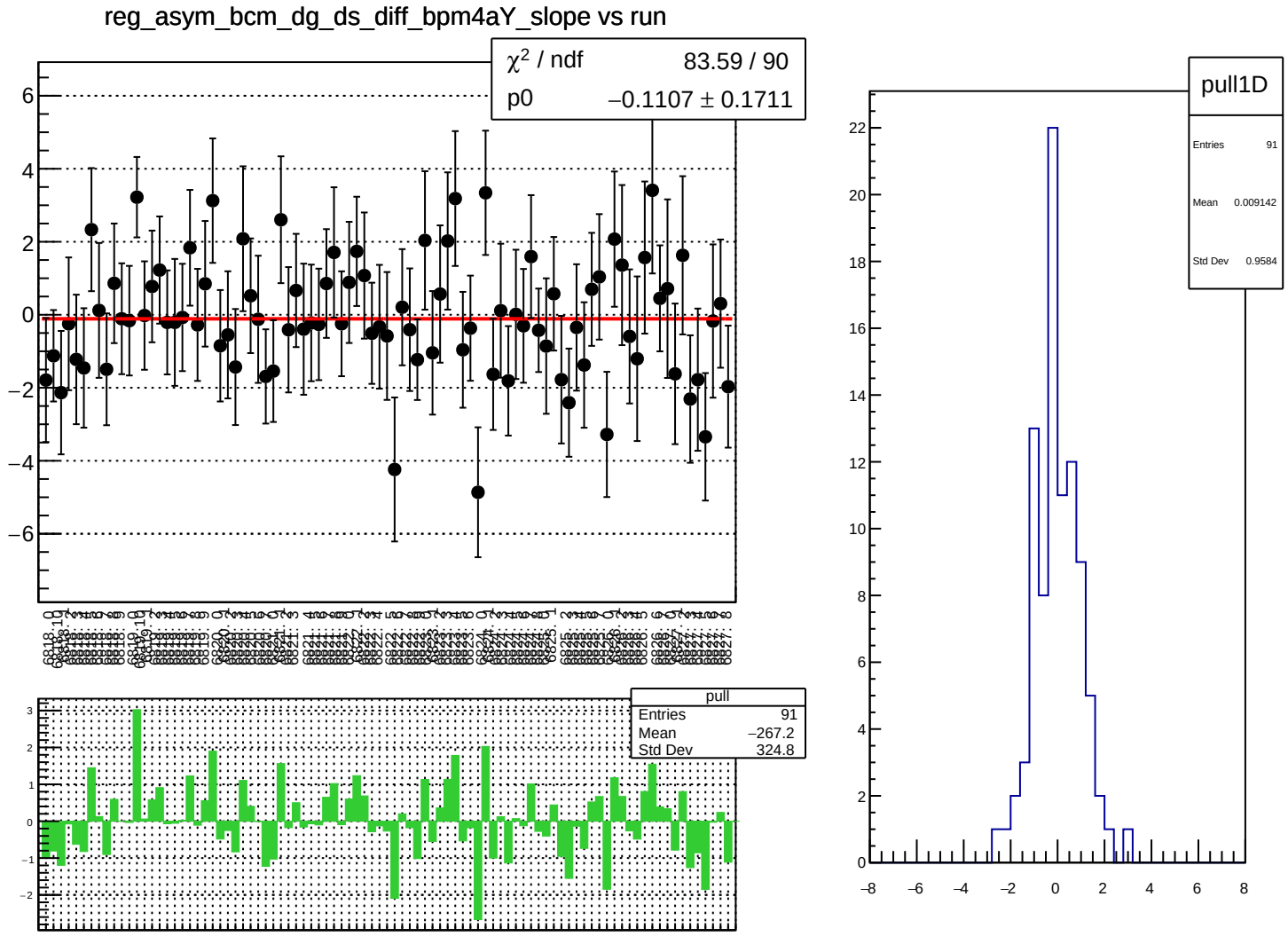

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 83.5 / 90
p0 0.7531± 0.1952
pull
Entries 91
Mean 1413
Std Dev 1360

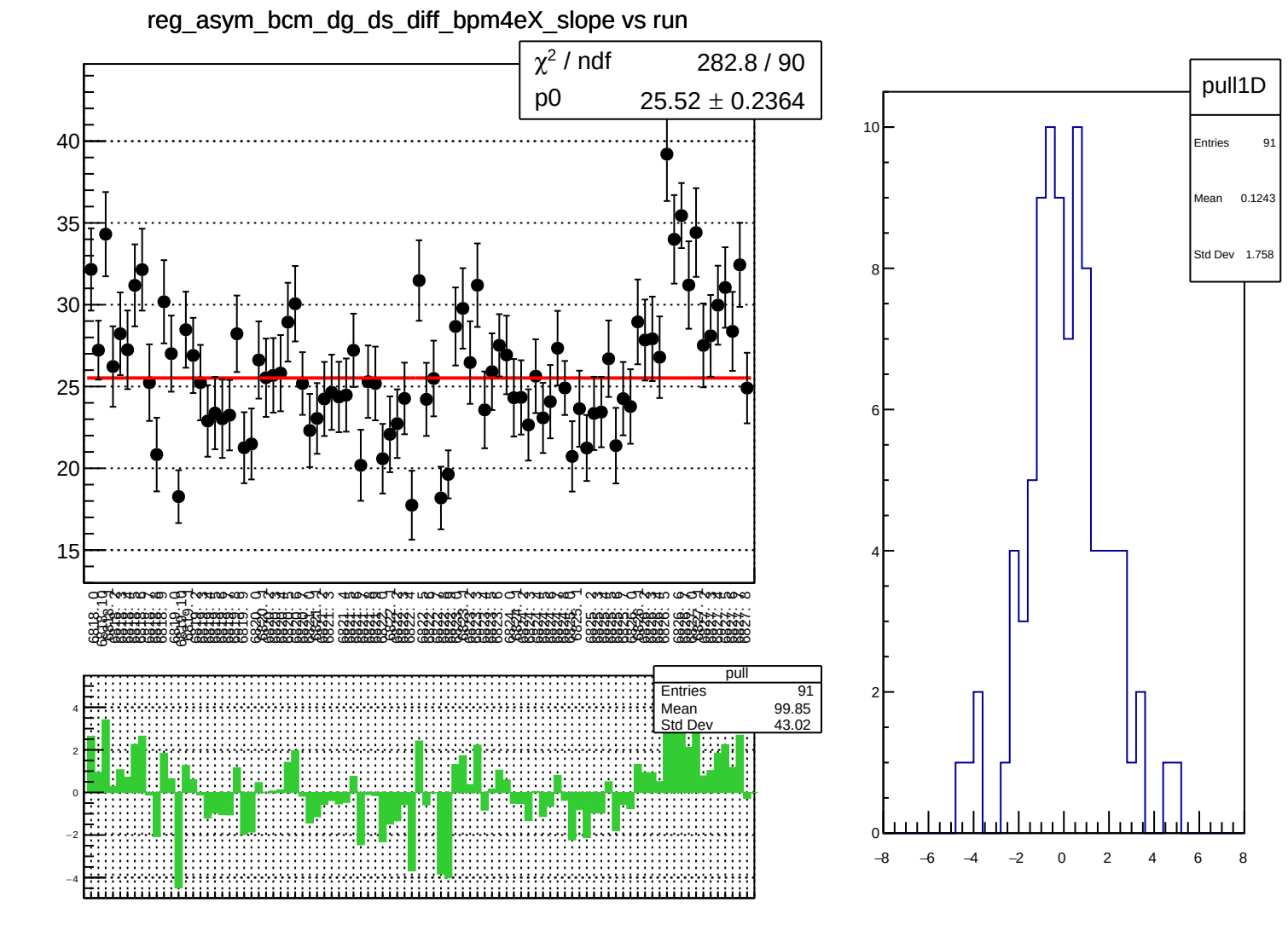

pull1D
Entries 91
Mean 0.004144
Std Dev 0.9579

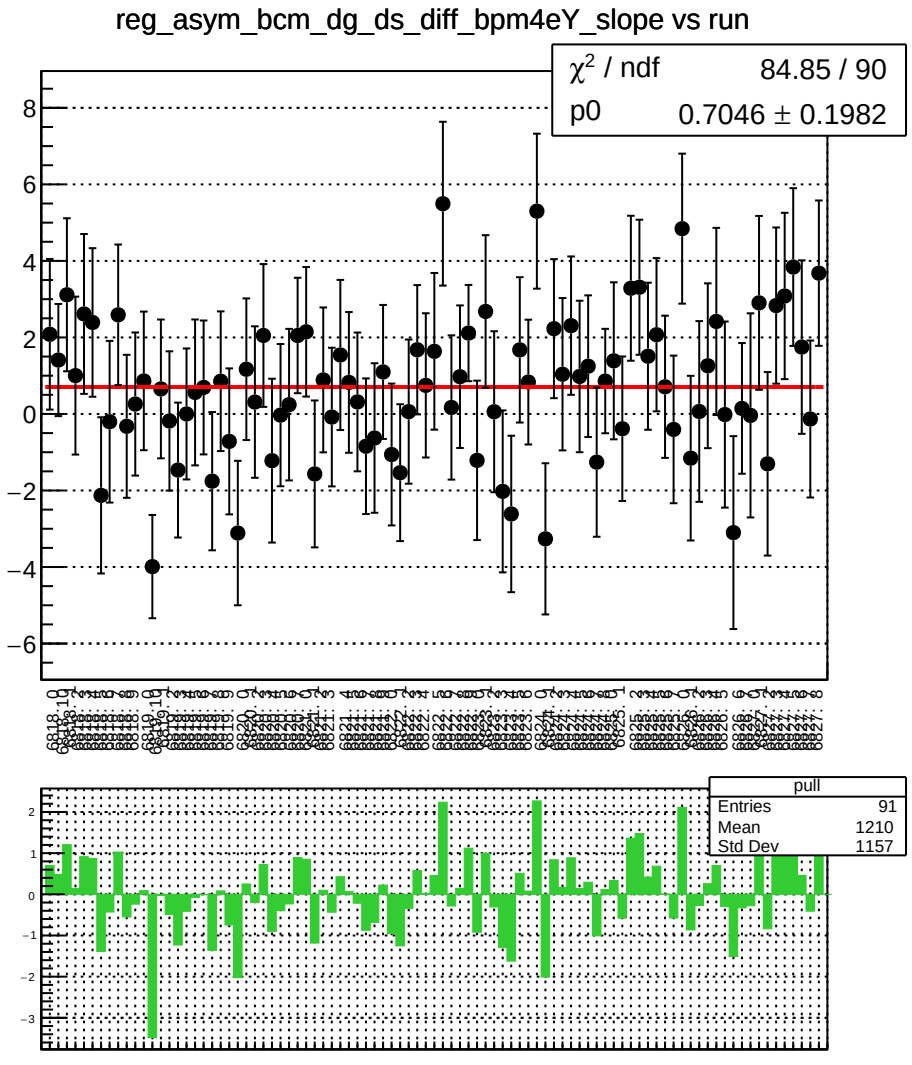

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 66.38 / 90
p0 0.2008 ± 0.009738
pull
Entries 91
Mean 2.871
Std Dev 62.28
pull1D
Entries 91
Mean 0.03281
Std Dev 0.8535

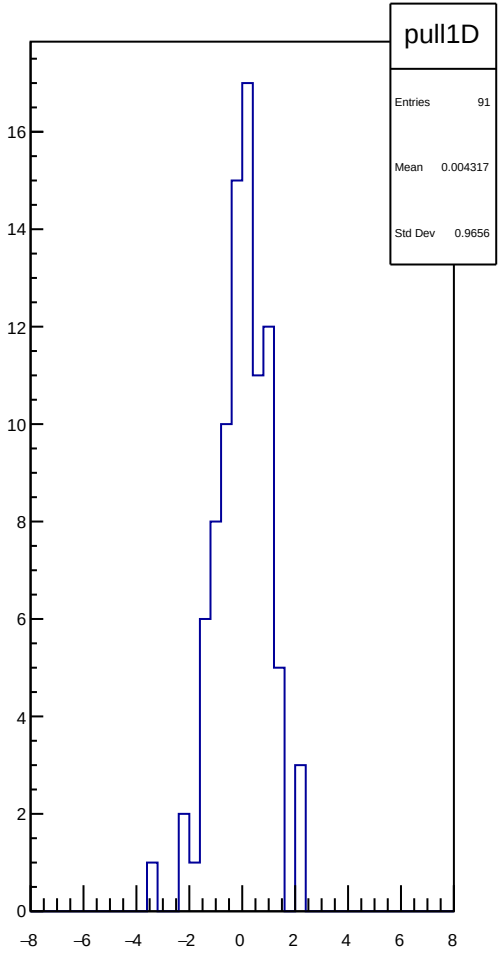

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 280 / 90
p0 −27.82 ± 0.2527
pull
Entries 91
Mean 100.3
Std Dev 41.94

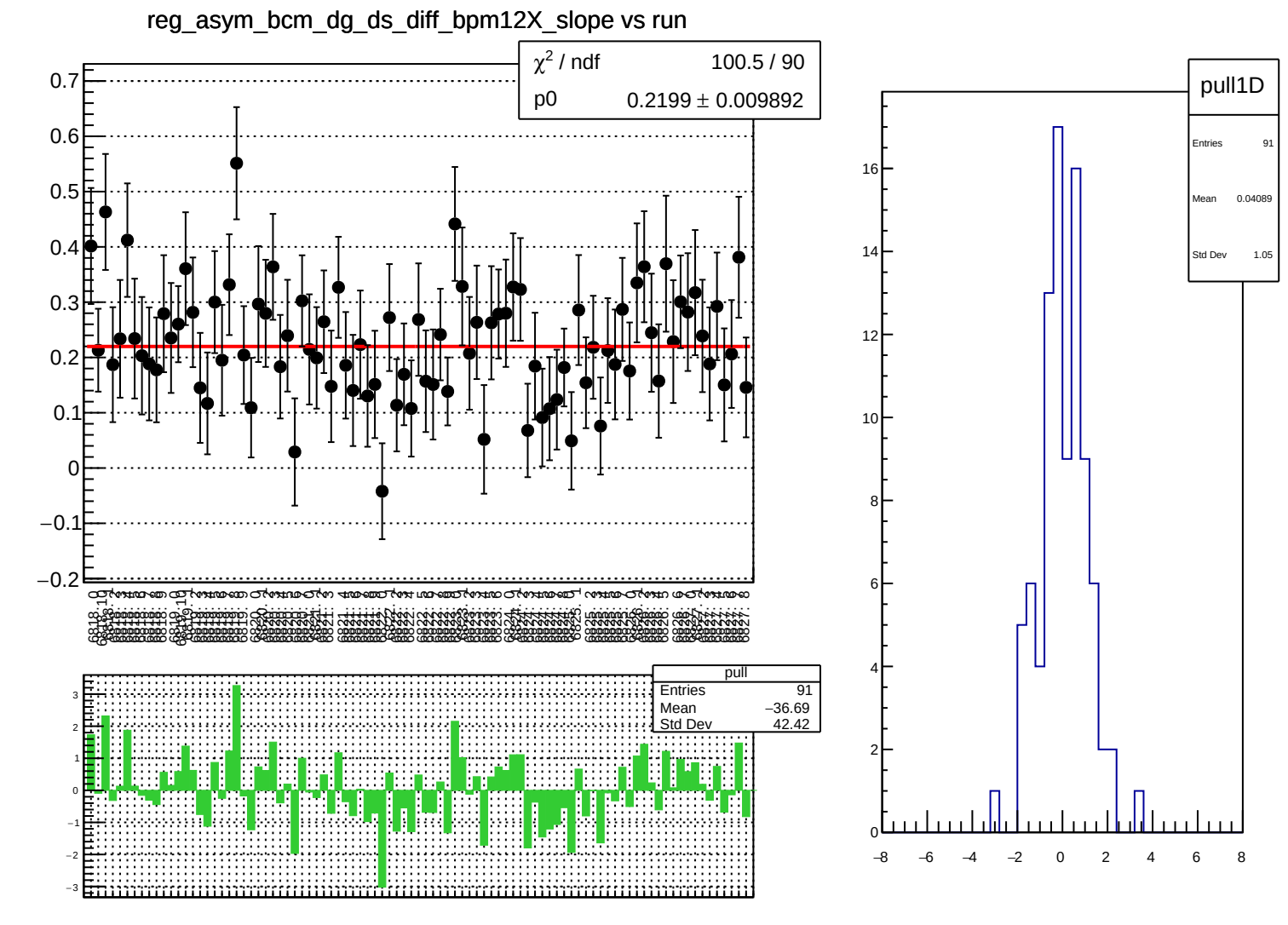

pull1D
Entries 91
Mean −0.1241
Std Dev 1.75

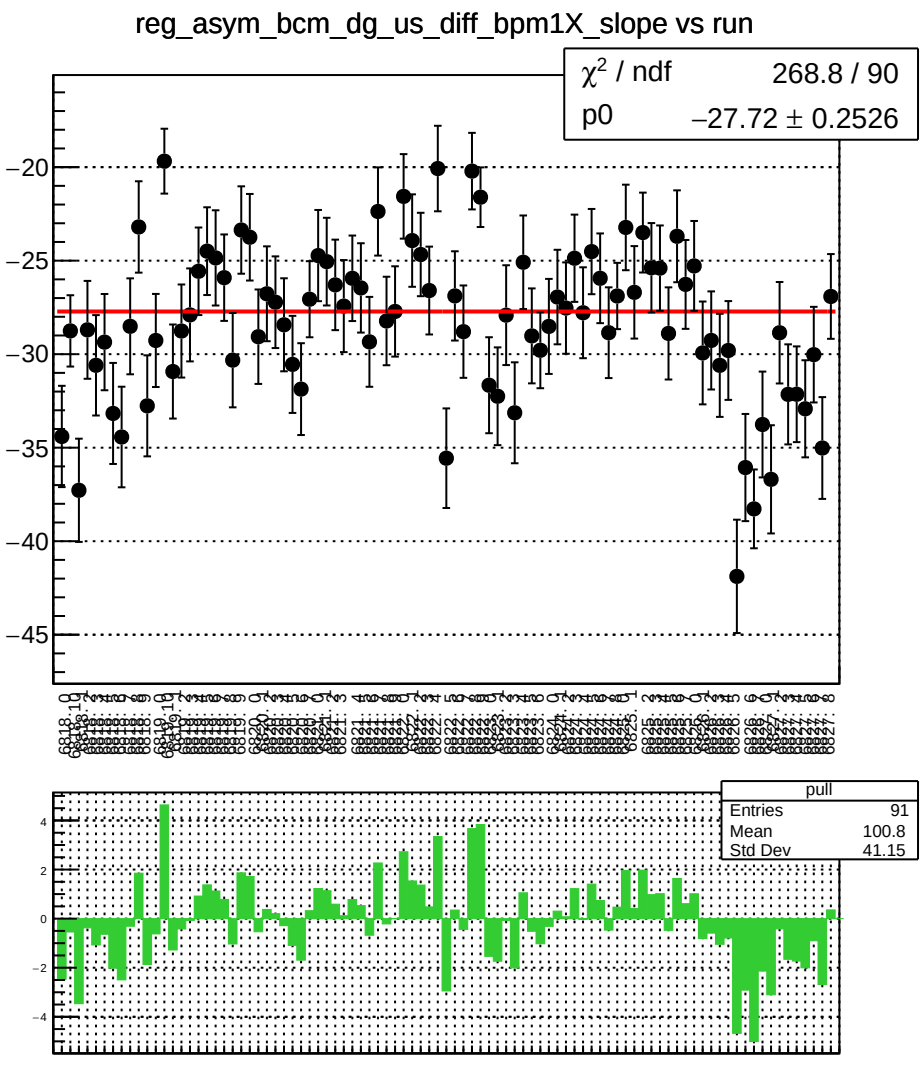

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 83.59 / 90
p0 −0.1107 ± 0.1711
pull
Entries 91
Mean −267.2
Std Dev 324.8
pull1D
Entries 91
Mean 0.009142
Std Dev 0.9584

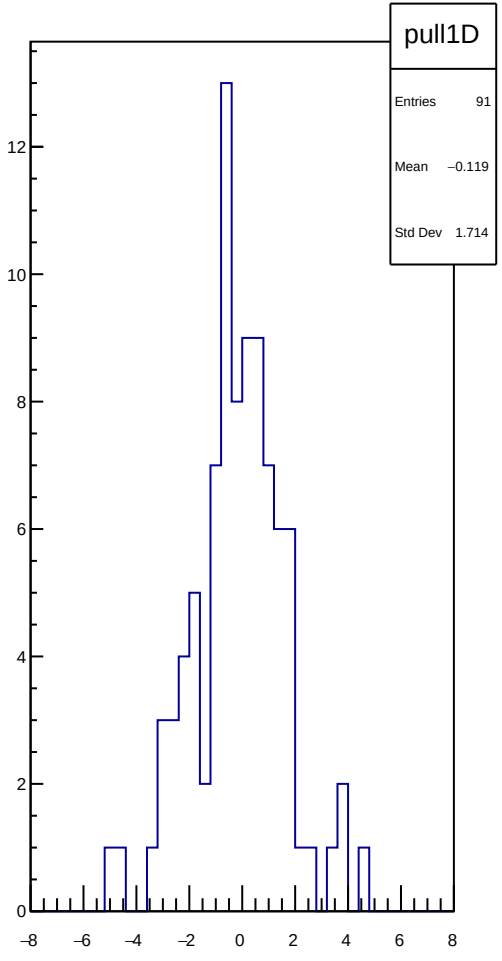

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 282.8 / 90
p0 25.52 ± 0.2364
pull
Entries 91
Mean 99.85
Std Dev 43.02
pull1D
Entries 91
Mean 0.1243
Std Dev 1.758

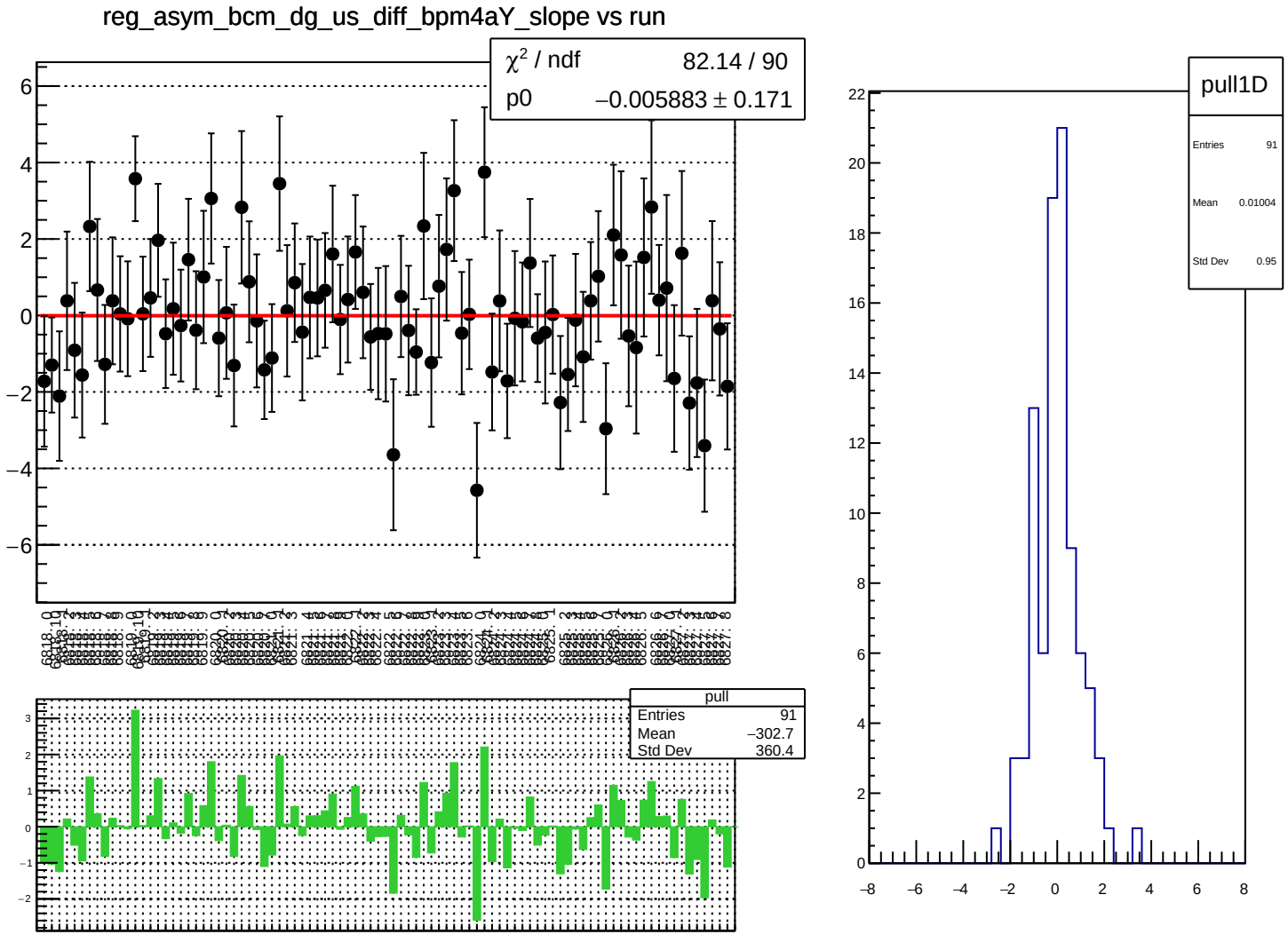

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 84.85 / 90
p0 0.7046 ± 0.1982
pull
Entries 91
Mean 1210
Std Dev 1157

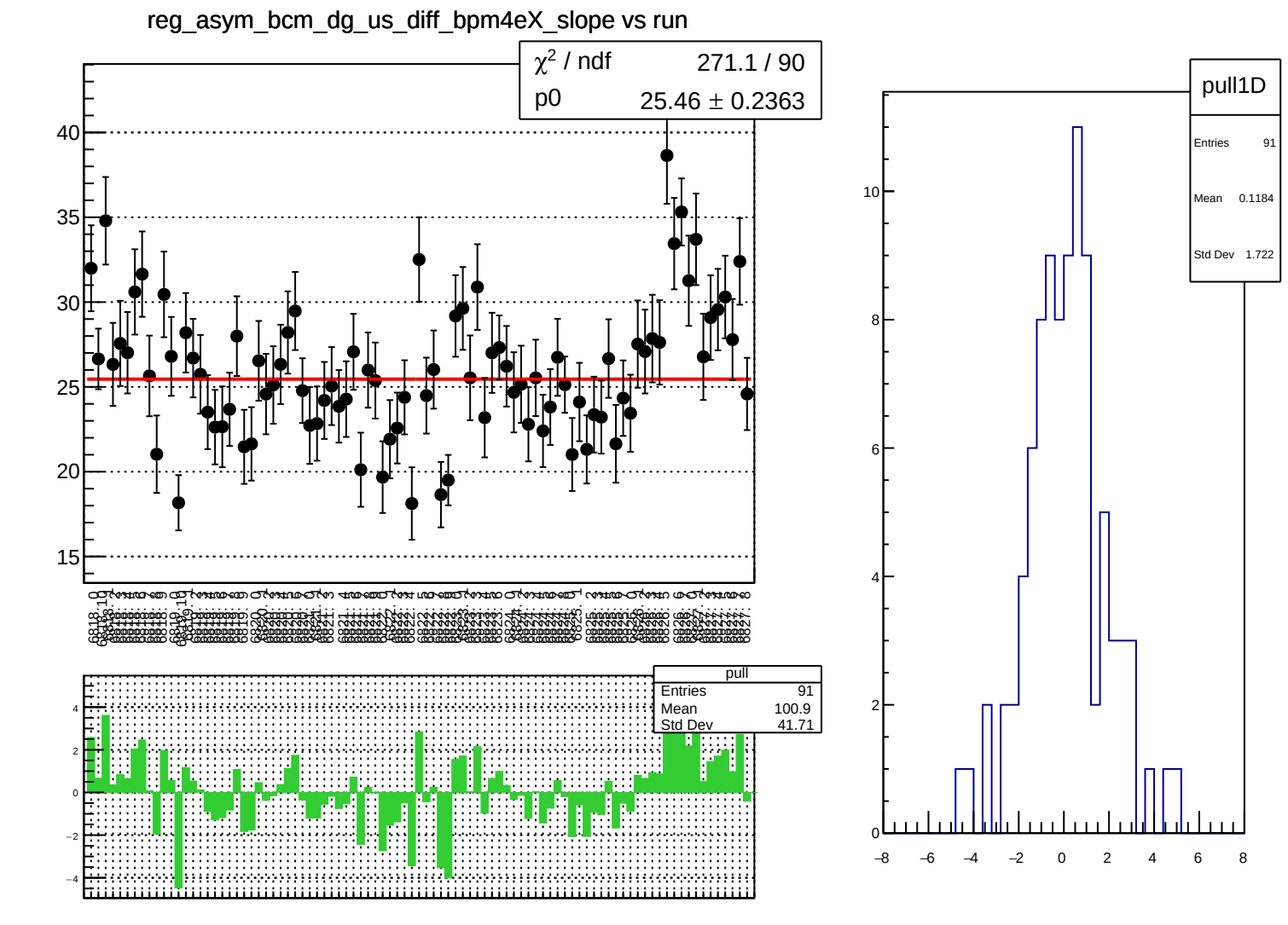

pull1D
Entries 91
Mean 0.004317
Std Dev 0.9656

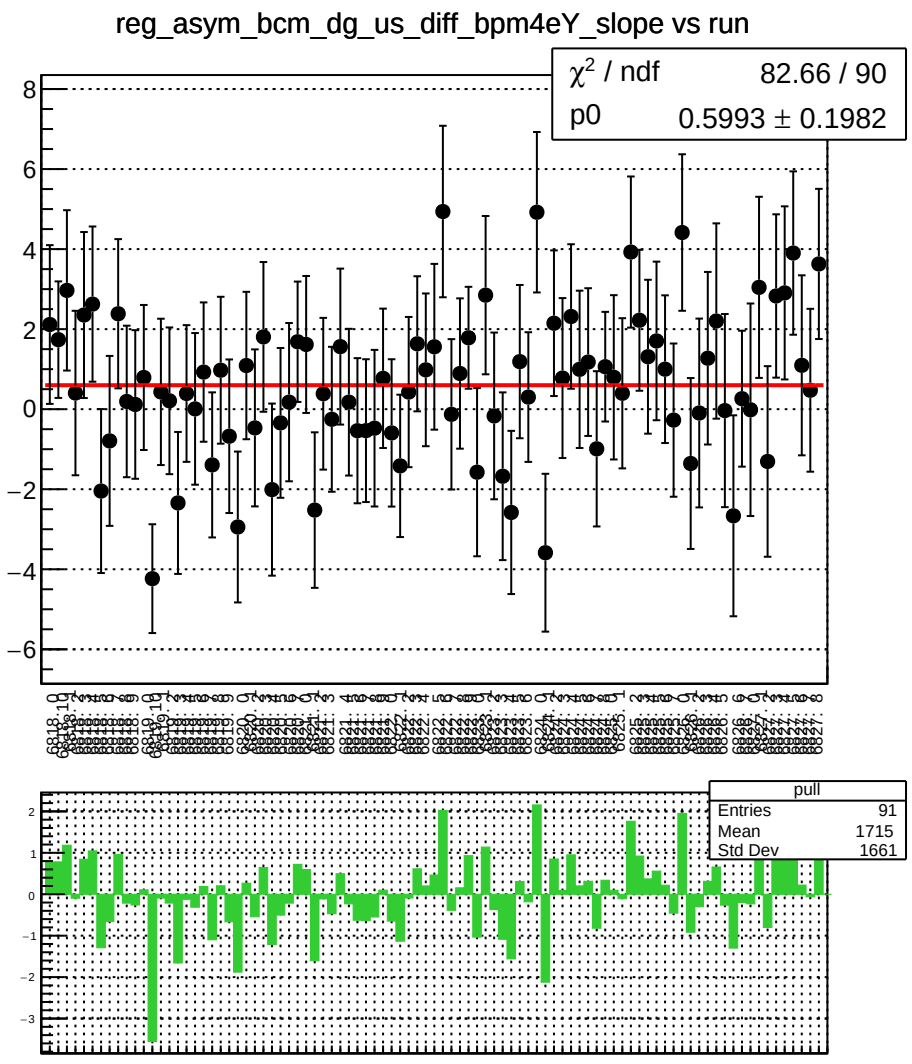

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 100.5 / 90
p0 0.2199 ± 0.009892
pull
Entries 91
Mean −36.69
Std Dev 42.42
pull1D
Entries 91
Mean 0.04089
Std Dev 1.05

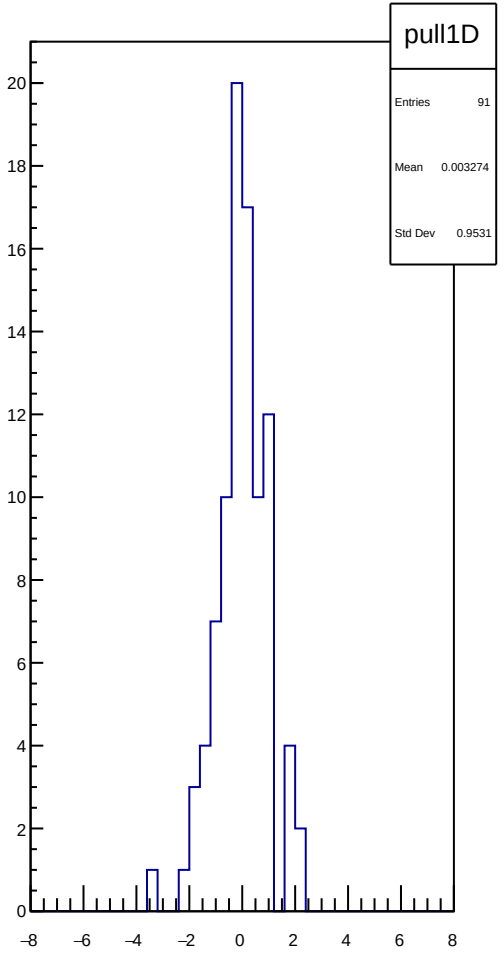

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 268.8 / 90
p0 −27.72 ± 0.2526
pull
Entries 91
Mean 100.8
Std Dev 41.15

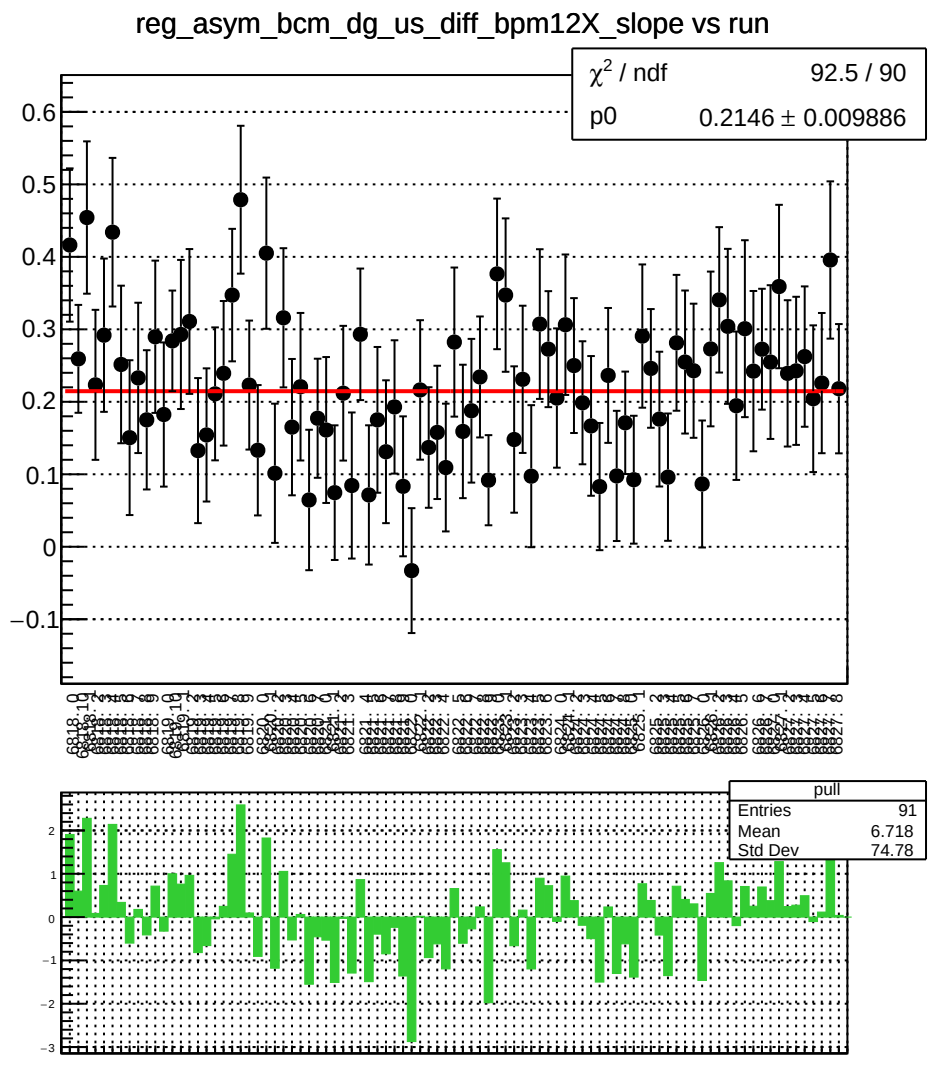

pull1D
Entries 91
Mean −0.119
Std Dev 1.714

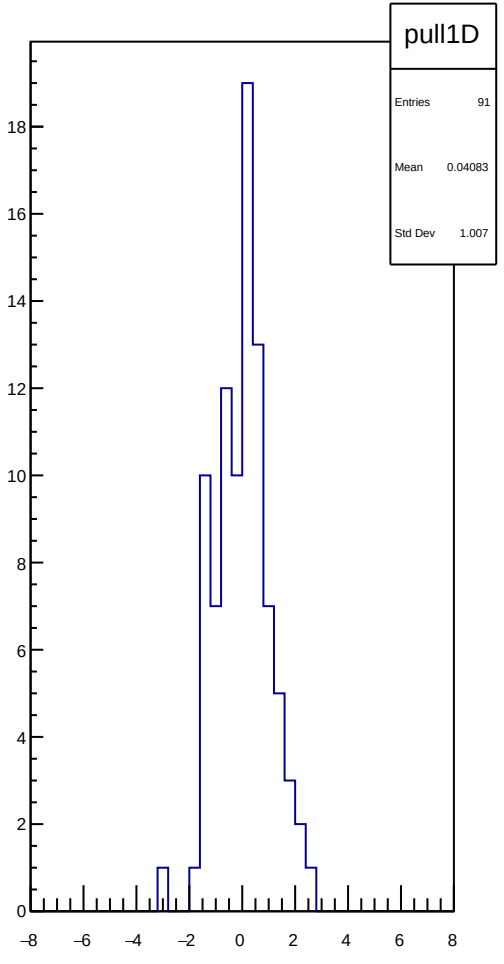

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 82.14 / 90
p0 −0.005883 ± 0.171
pull
Entries 91
Mean −302.7
Std Dev 360.4
pull1D
Entries 91
Mean 0.01004
Std Dev 0.95

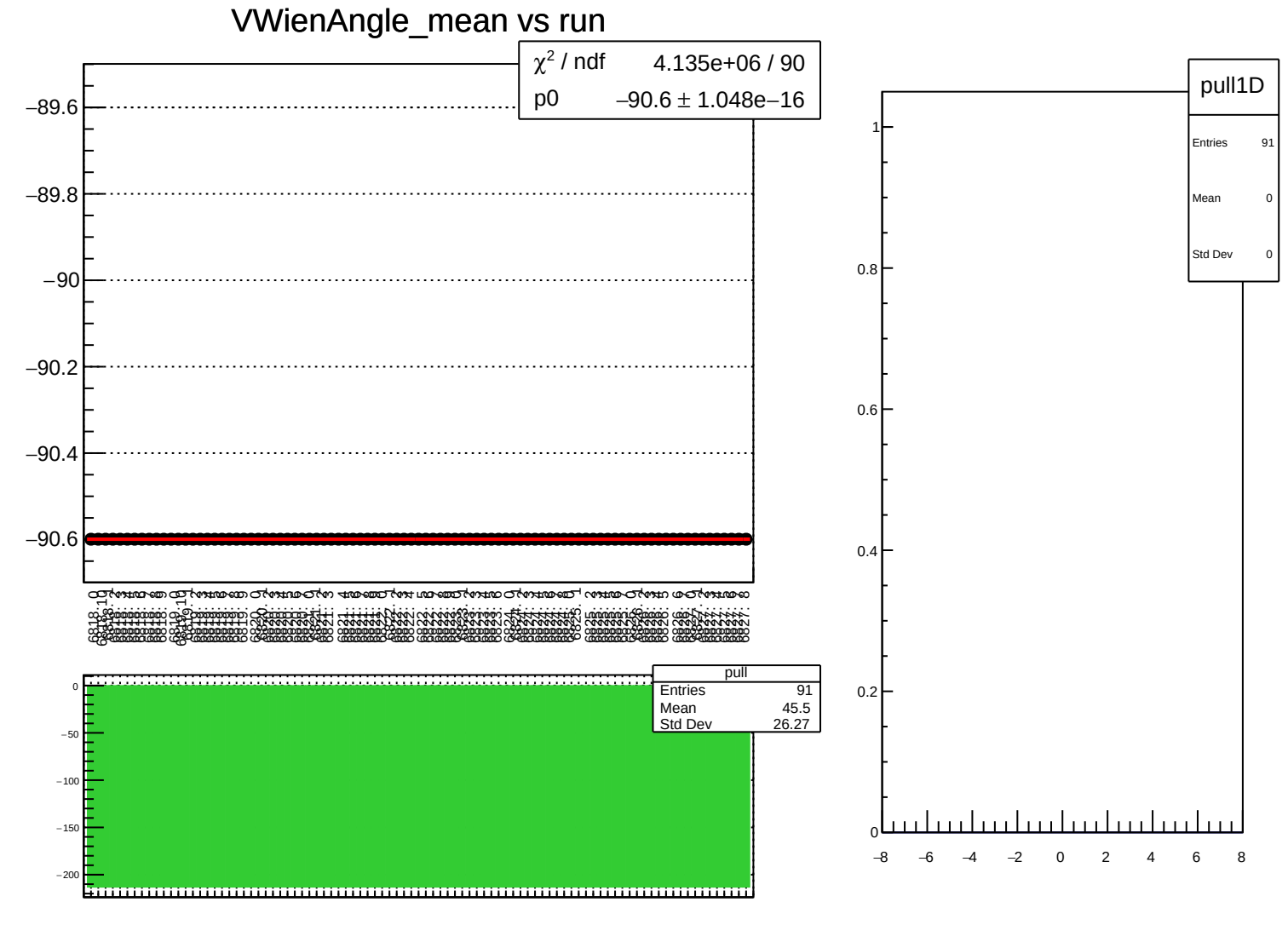

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 271.1 / 90
p0 25.46 ± 0.2363
pull
Entries 91
Mean 100.9
Std Dev 41.71
pull1D
Entries 91
Mean 0.1184
Std Dev 1.722

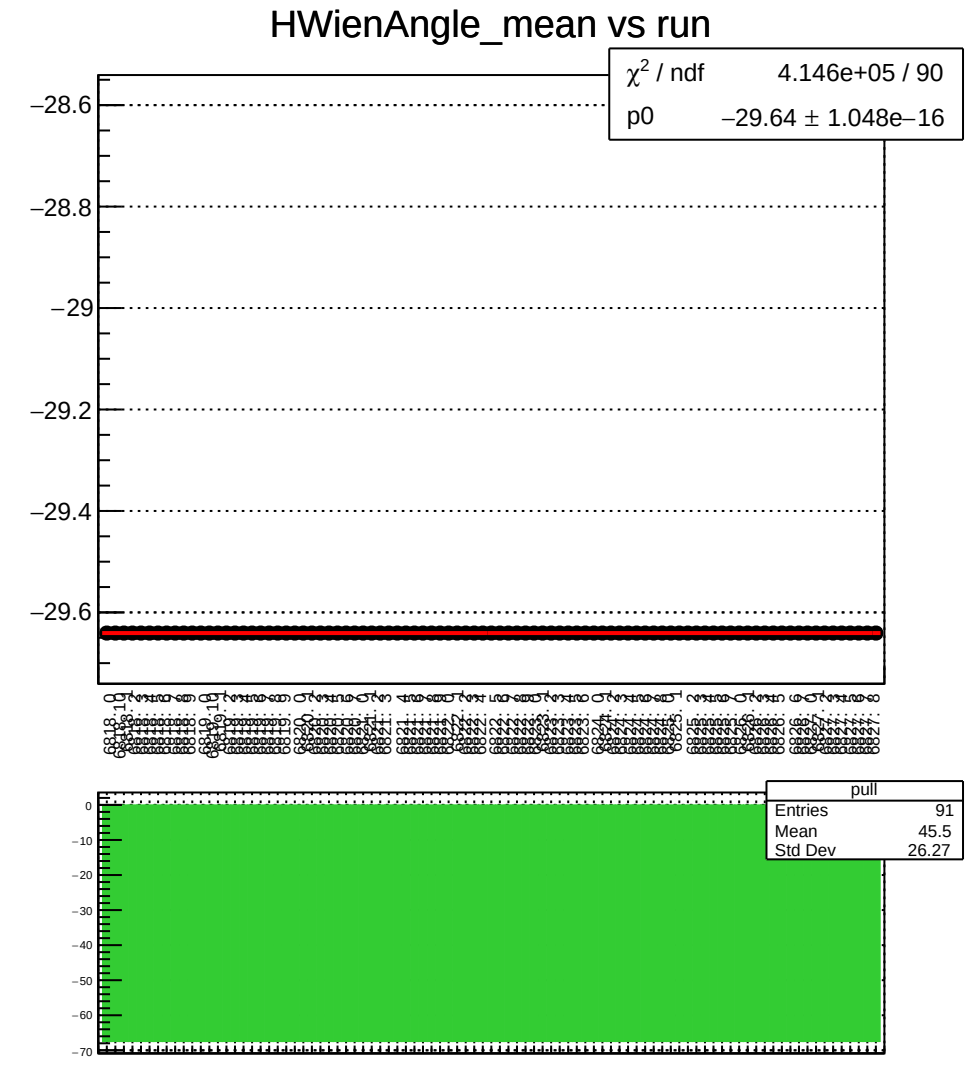

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 82.66 / 90
p0 0.5993 ± 0.1982
pull
Entries 91
Mean 1715
Std Dev 1661

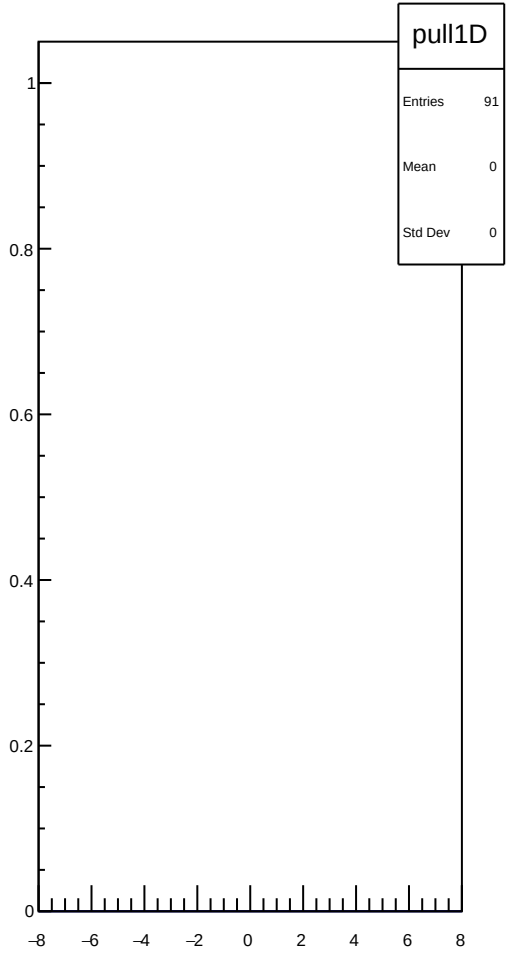

pull1D
Entries 91
Mean 0.003274
Std Dev 0.9531

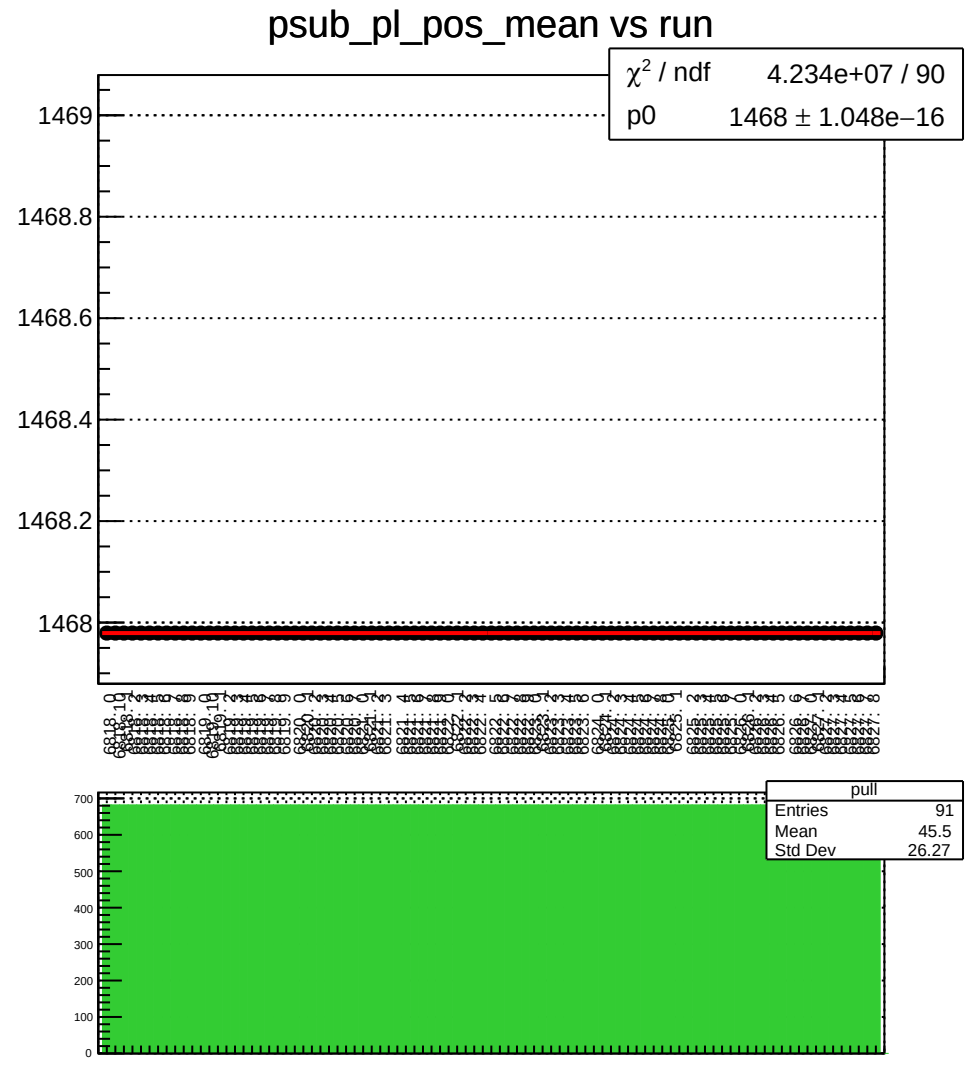

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 92.5 / 90
p0 0.2146 ± 0.009886
pull
Entries 91
Mean 6.718
Std Dev 74.78

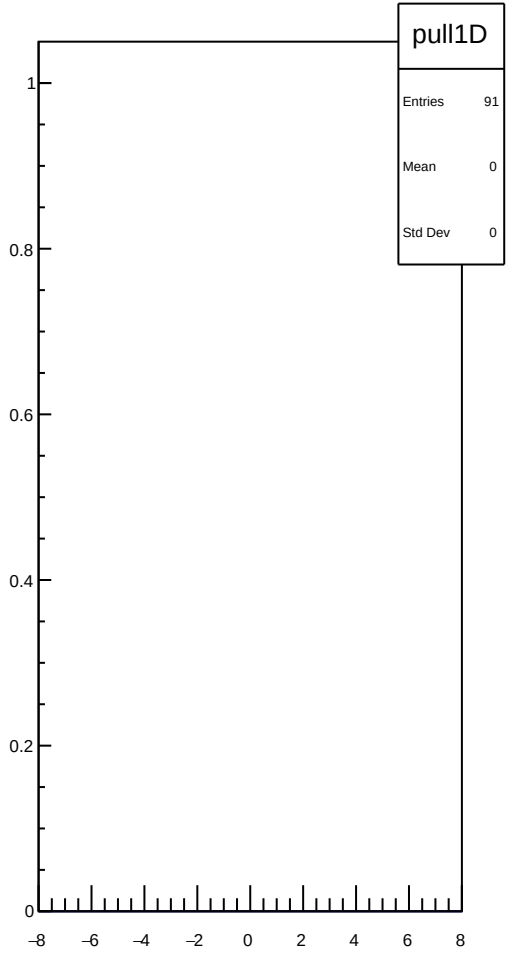

pull1D
Entries 91
Mean 0.04083
Std Dev 1.007

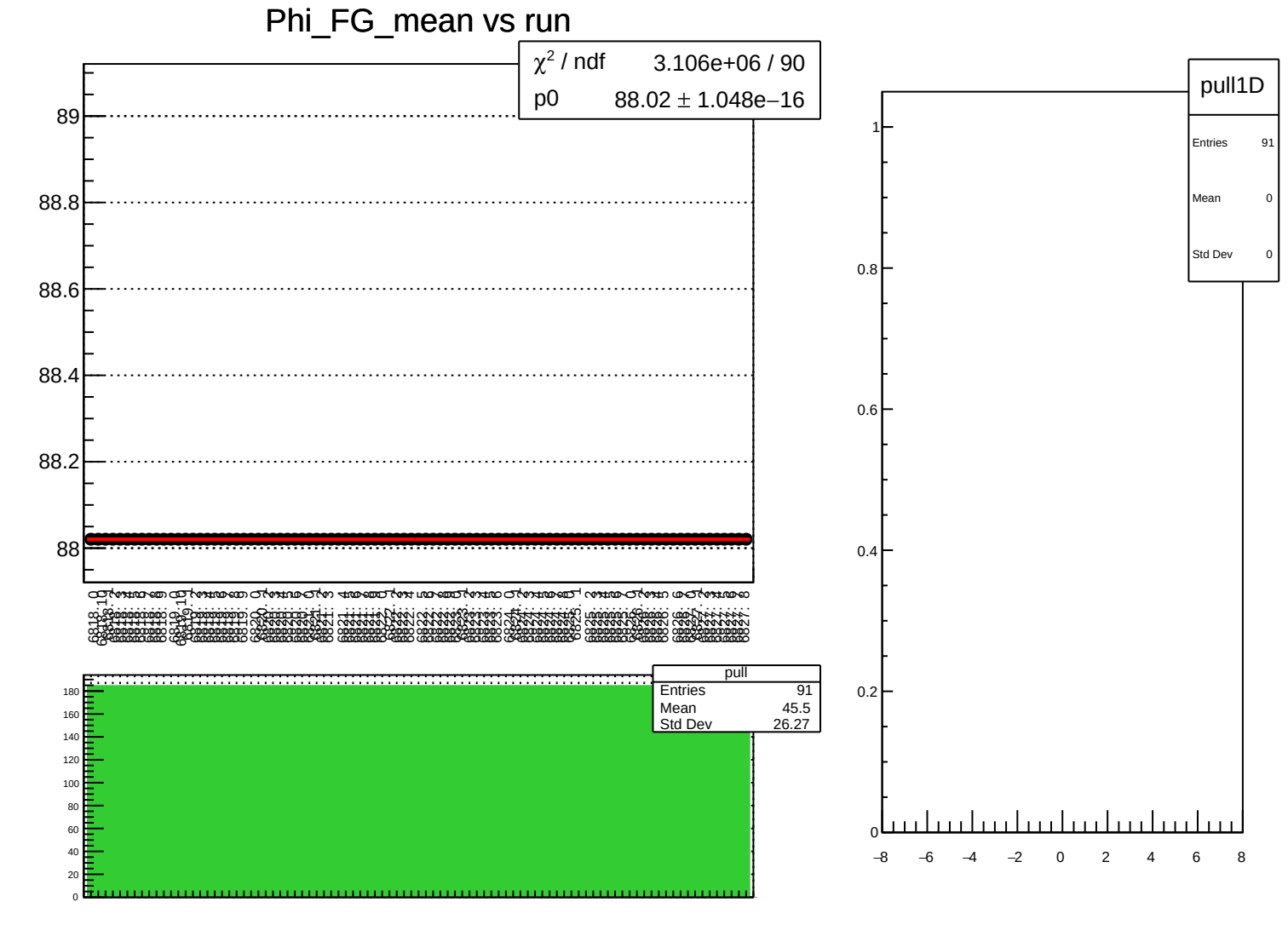

VWienAngle_mean vs run
χ² / ndf 4.135e+06 / 90
p0 −90.6 ± 1.048e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−50
−100
−150
−200
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

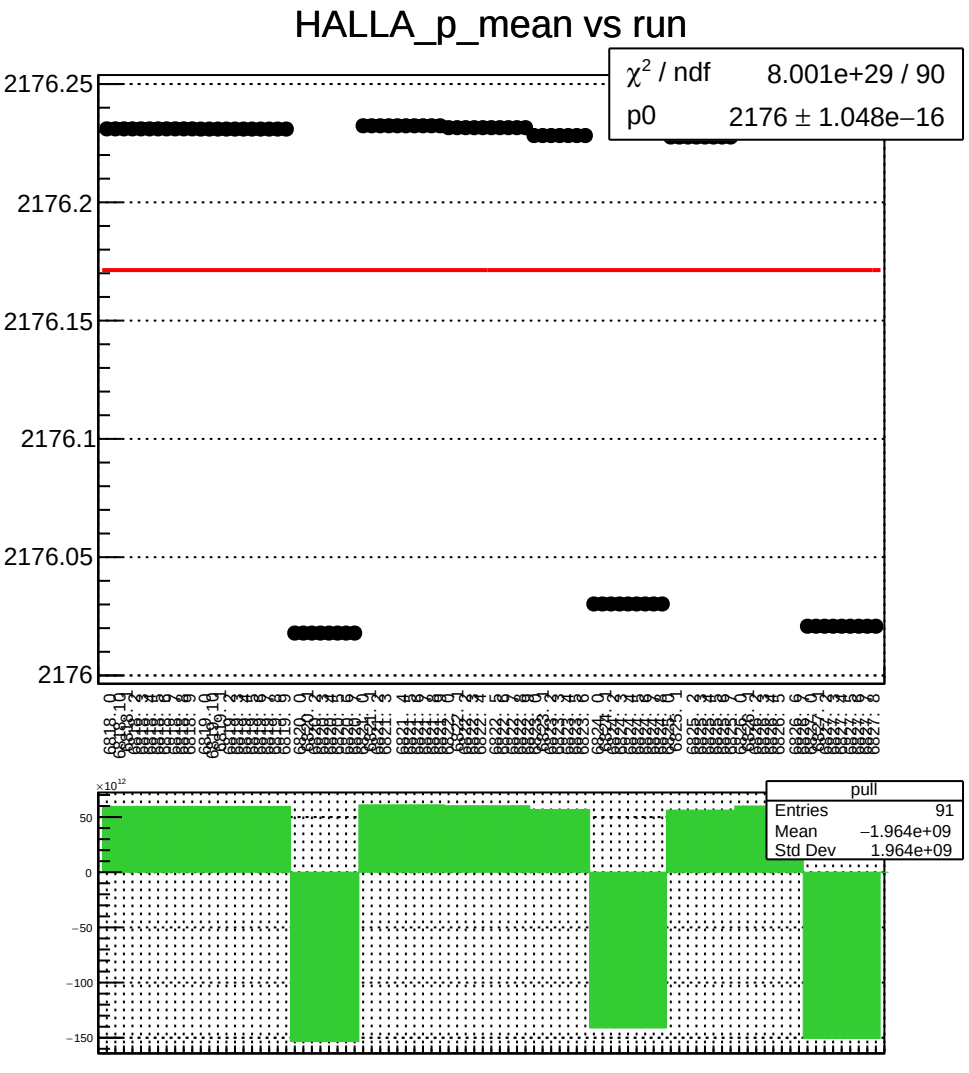

HWienAngle_mean vs run
χ² / ndf 4.146e+05 / 90
p0 −29.64 ± 1.048e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−10
−20
−30
−40
−50
−60
−70

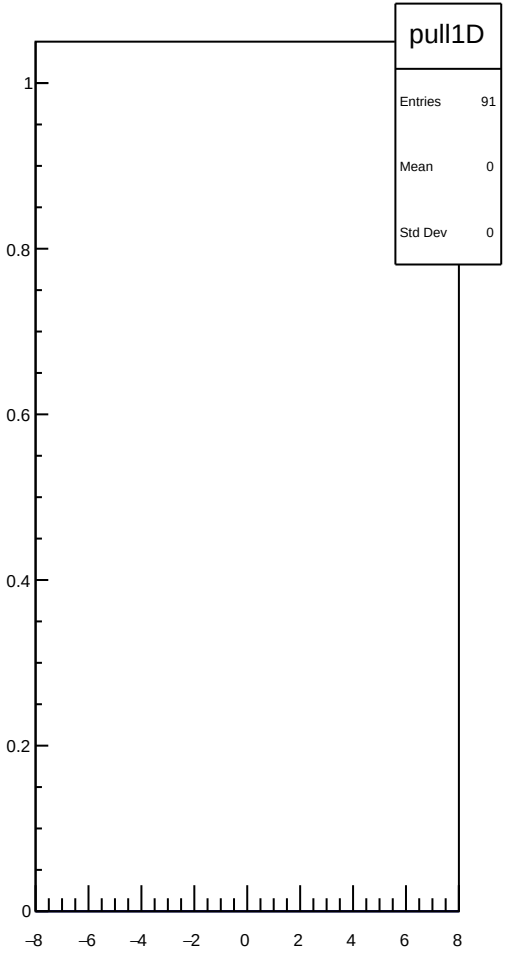

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

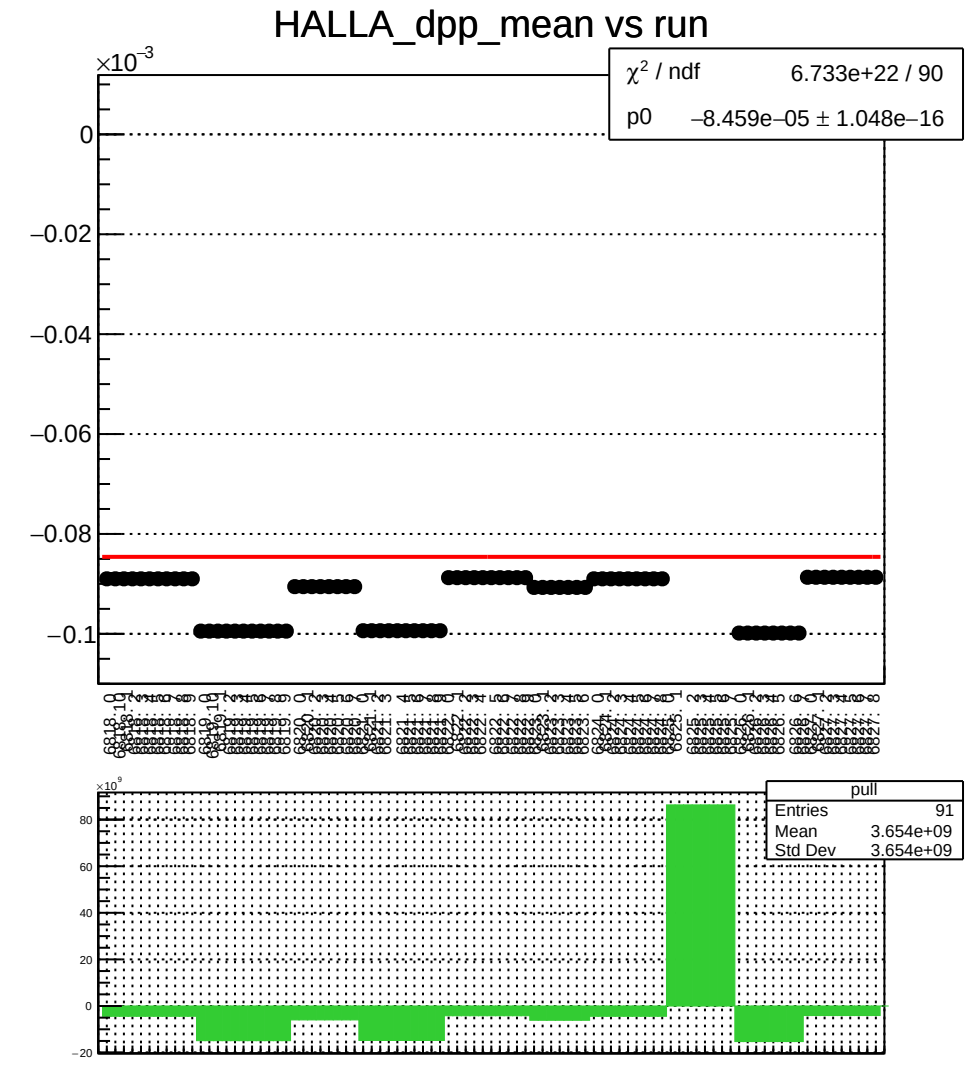

psub_pl_pos_mean vs run
χ² / ndf 4.234e+07 / 90
p0 1468 ± 1.048e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 91
Mean 45.5
Std Dev 26.27
700
600
500
400
300
200
100
0

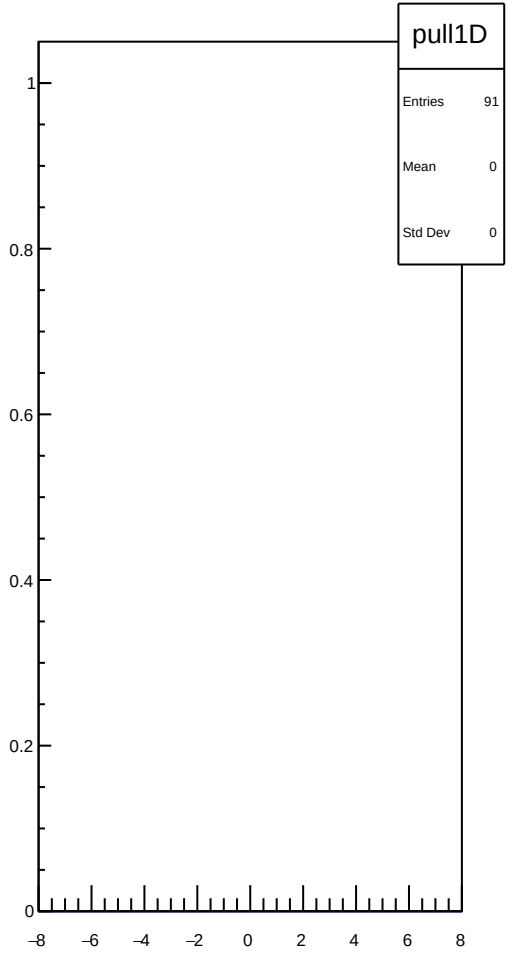

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

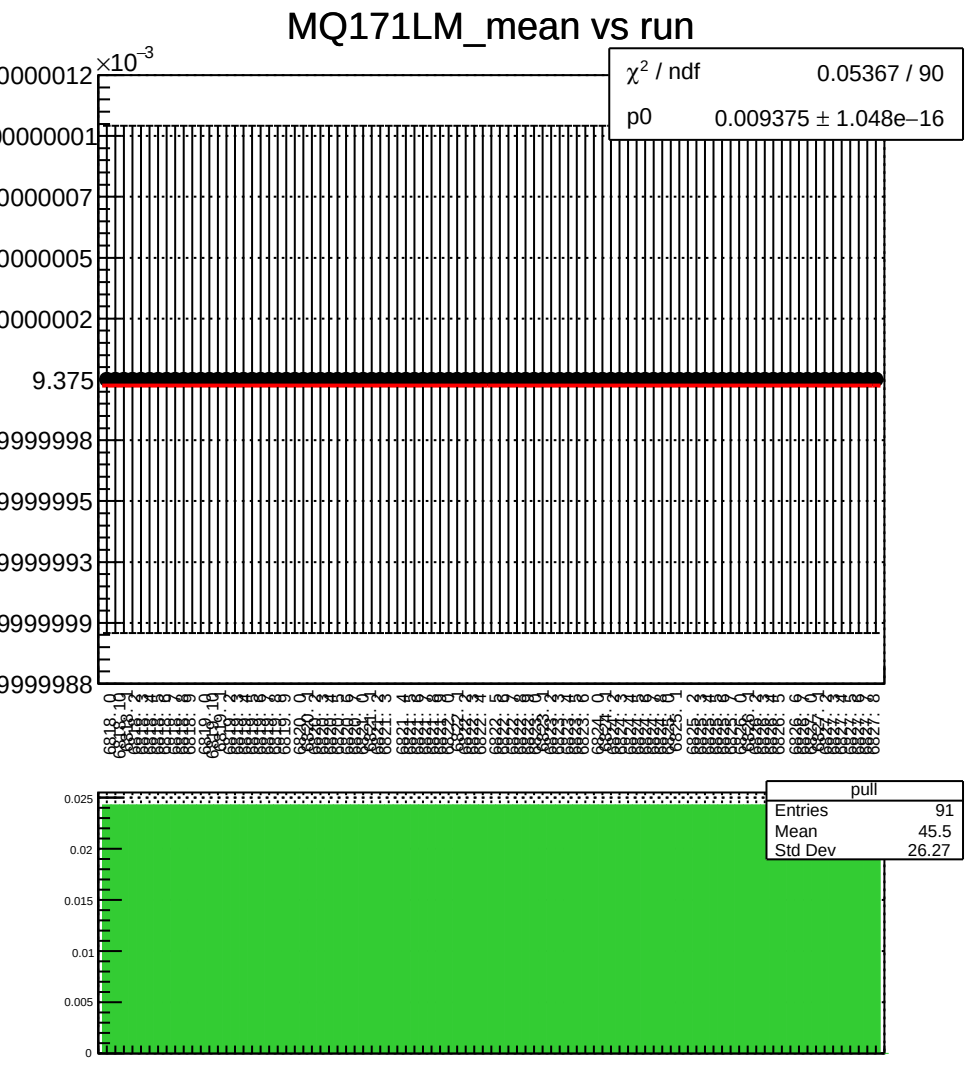

Phi_FG_mean vs run
χ² / ndf 3.106e+06 / 90
p0 88.02 ± 1.048e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 91
Mean 45.5
Std Dev 26.27
180
160
140
120
100
80
60
40
20
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

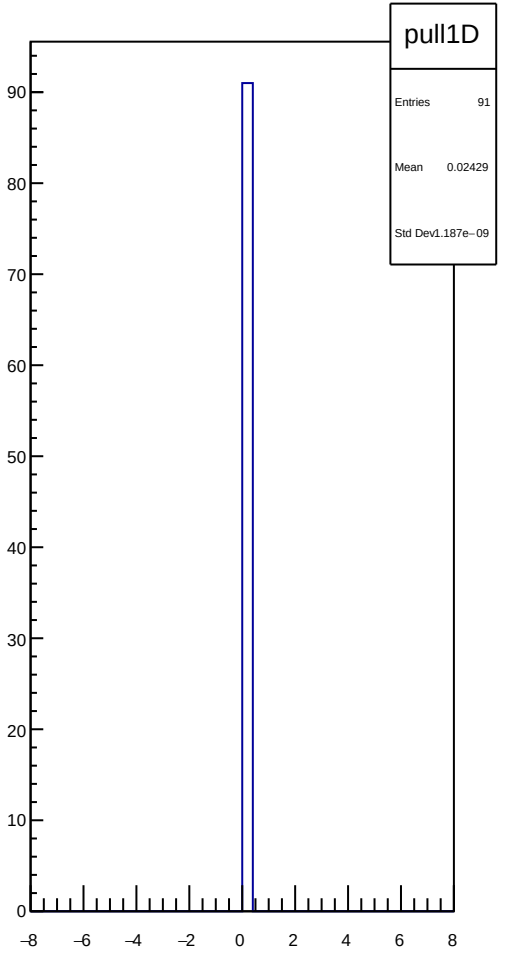

HALLA_p_mean vs run
χ² / ndf 8.001e+29 / 90
p0 2176 ± 1.048e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
pull
Entries 91
Mean −1.964e+09
Std Dev 1.964e+09
×10¹²
50
0
−50
−100
−150

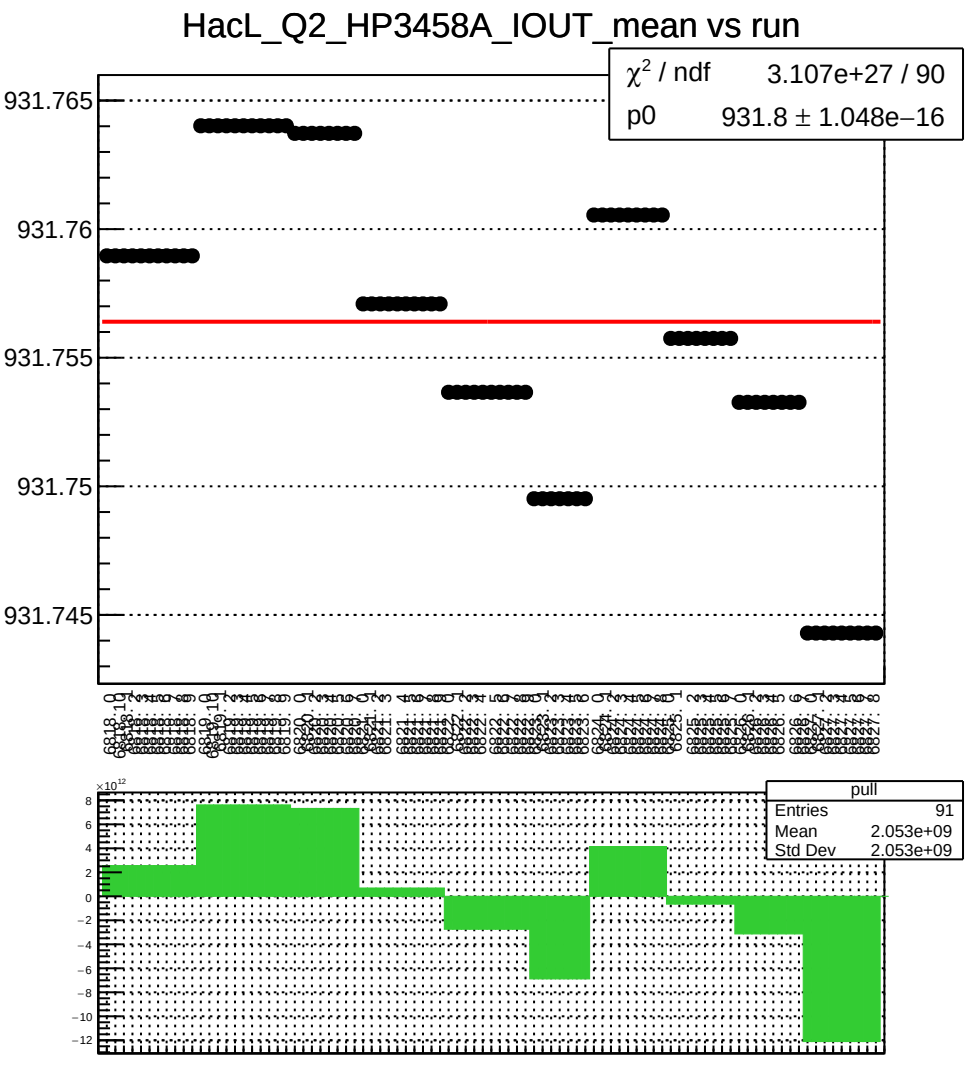

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

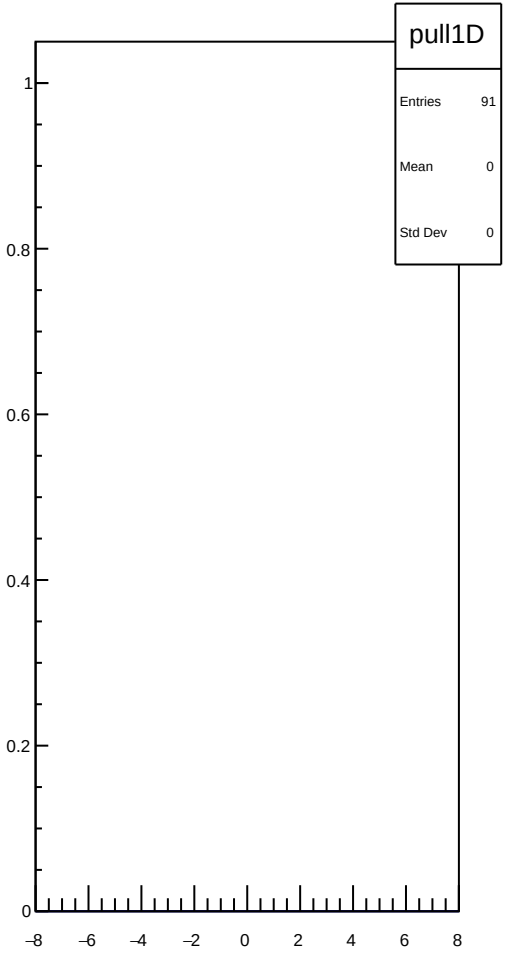

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 6.733e+22 / 90
p0 −8.459e−05 ± 1.048e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
pull
Entries 91
Mean 3.654e+09
Std Dev 3.654e+09
80
60
40
20
0
−20

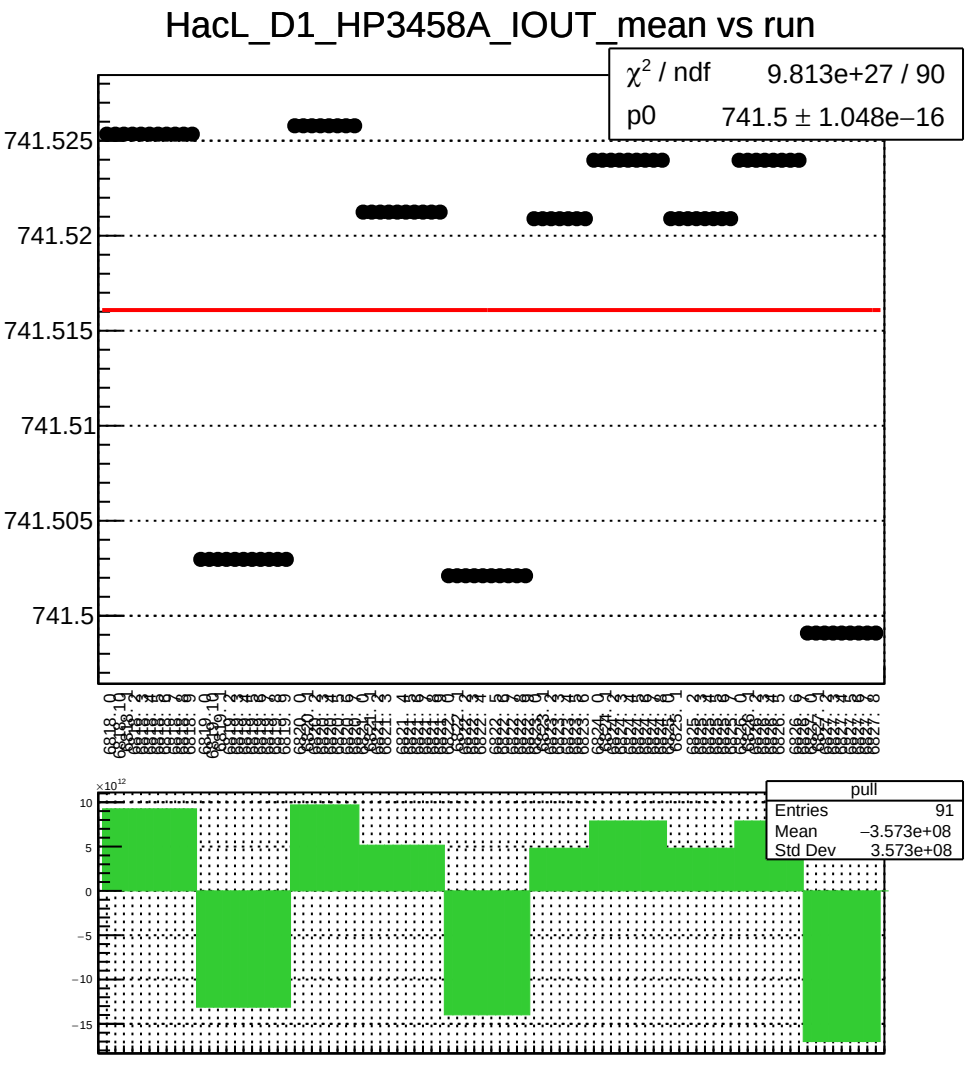

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

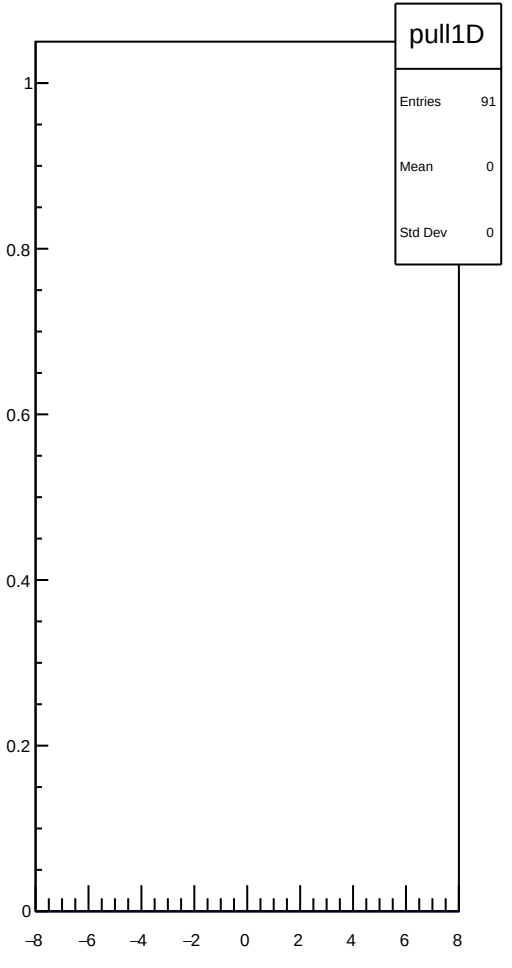

MQ171LM_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
9.375
pull
Entries 91
Mean 45.5
Std Dev 26.27

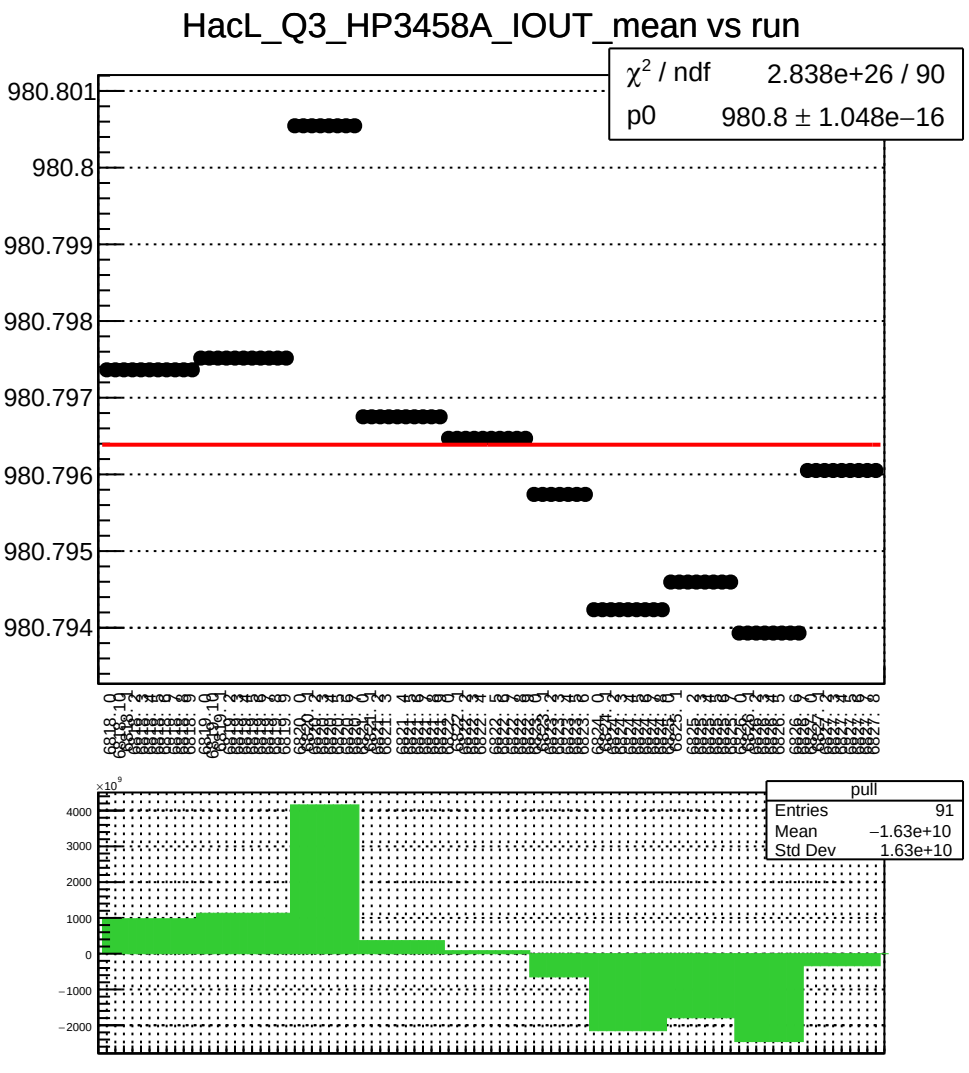

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

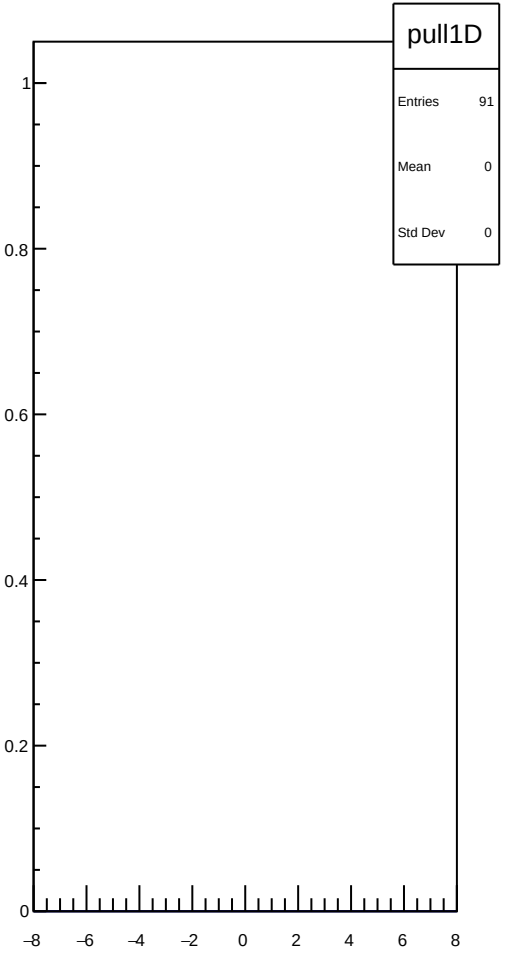

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.107e+27 / 90
p0 931.8 ± 1.048e−16
931.765
931.76
931.755
931.75
931.745
pull
Entries 91
Mean 2.053e+09
Std Dev 2.053e+09
×10¹²
8
6
4
2
0
−2
−4
−6
−8
−10
−12

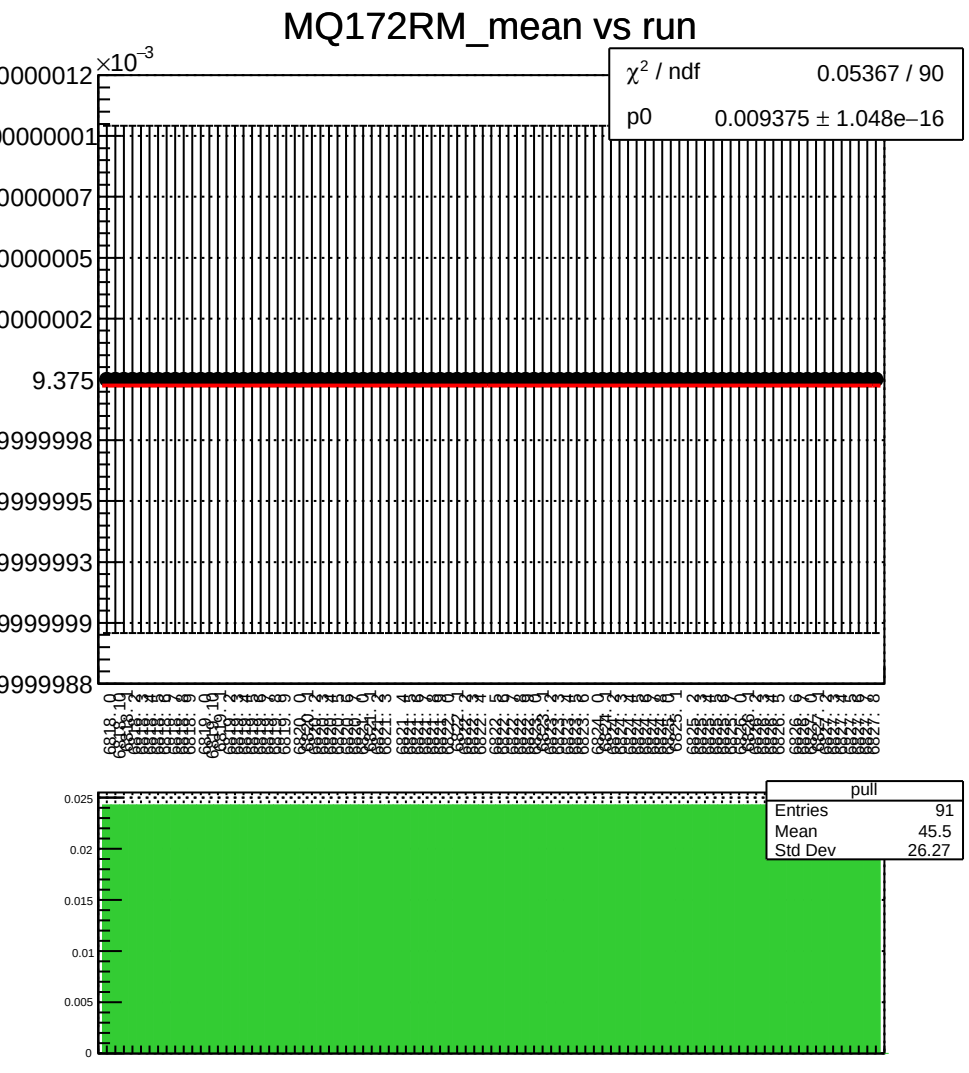

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

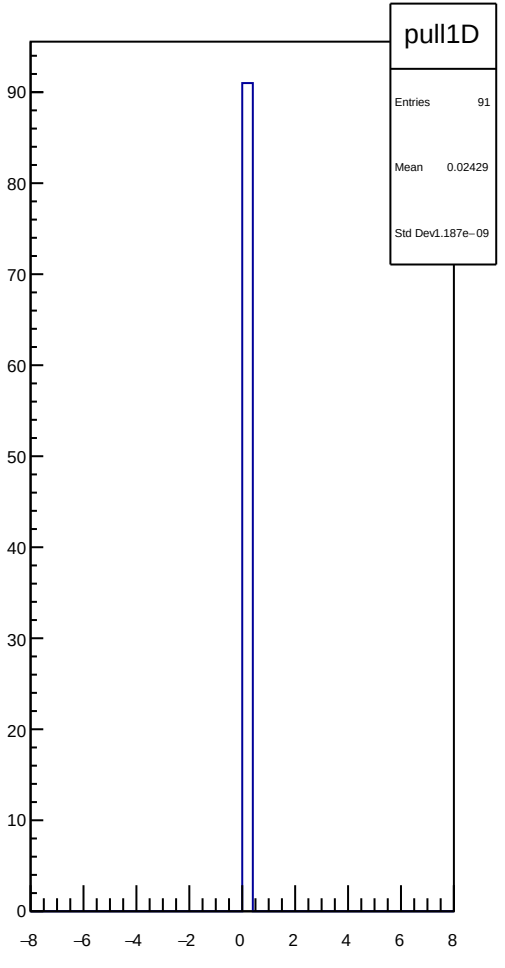

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 9.813e+27 / 90
p0 741.5 ± 1.048e−16
741.525
741.52
741.515
741.51
741.505
741.5
pull
Entries 91
Mean −3.573e+08
Std Dev 3.573e+08
×10¹²
10
5
0
−5
−10
−15

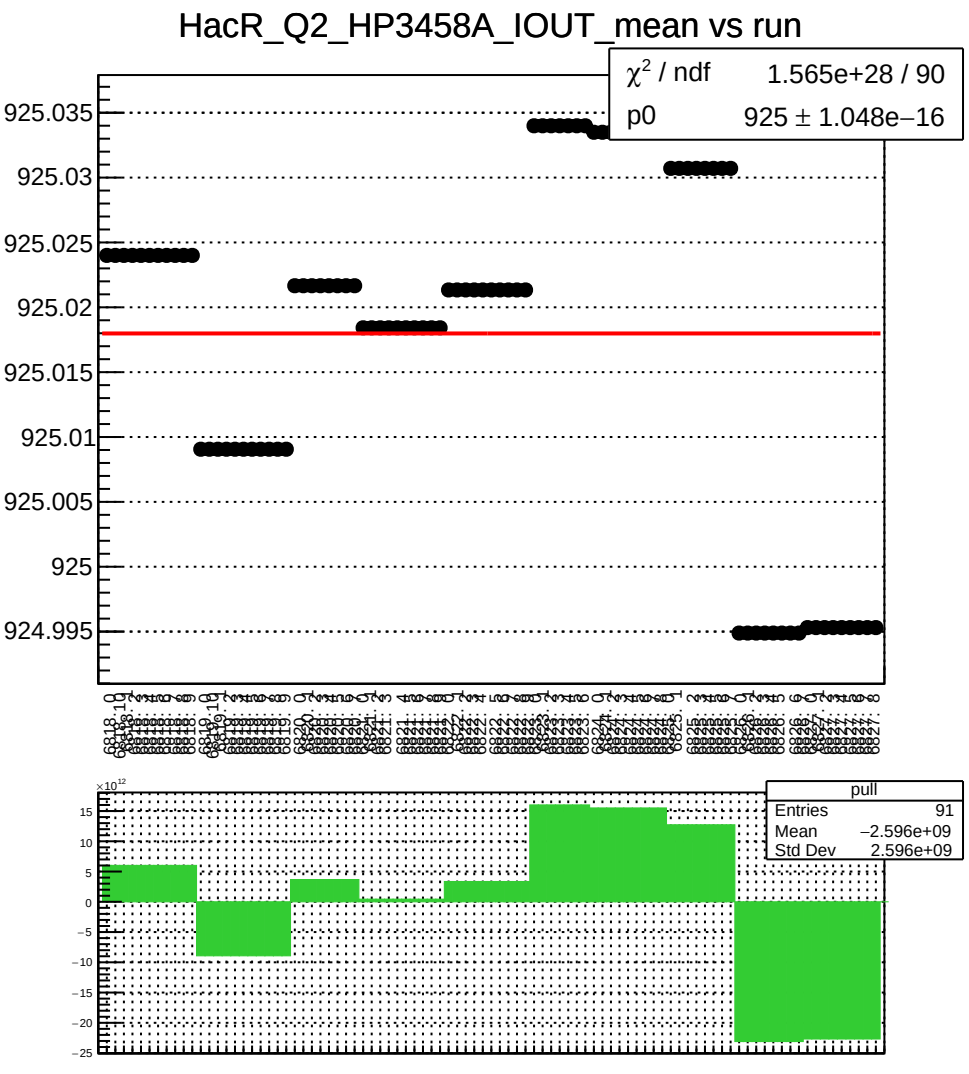

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

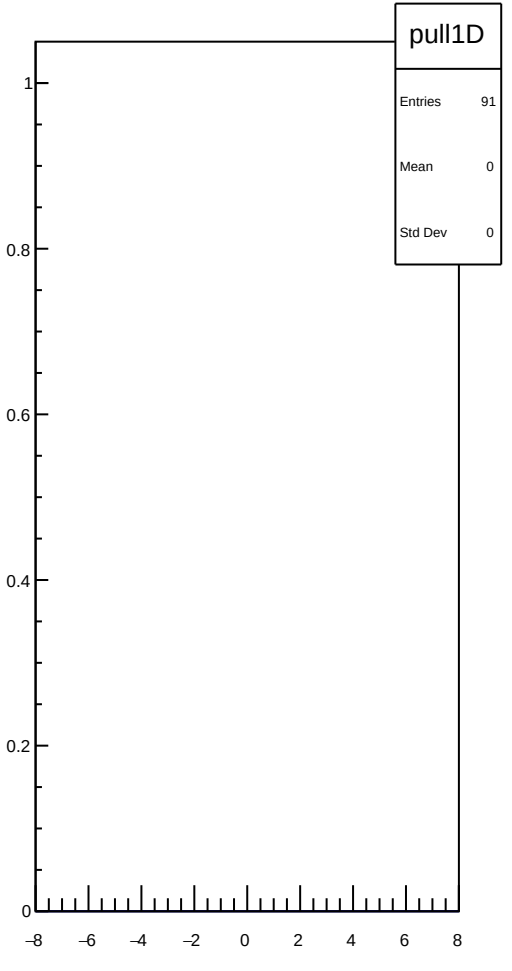

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.838e+26 / 90
p0 980.8 ± 1.048e−16
980.801
980.8
980.799
980.798
980.797
980.796
980.795
980.794
pull
Entries 91
Mean −1.63e+10
Std Dev 1.63e+10
×10⁹
4000
3000
2000
1000
0
−1000
−2000

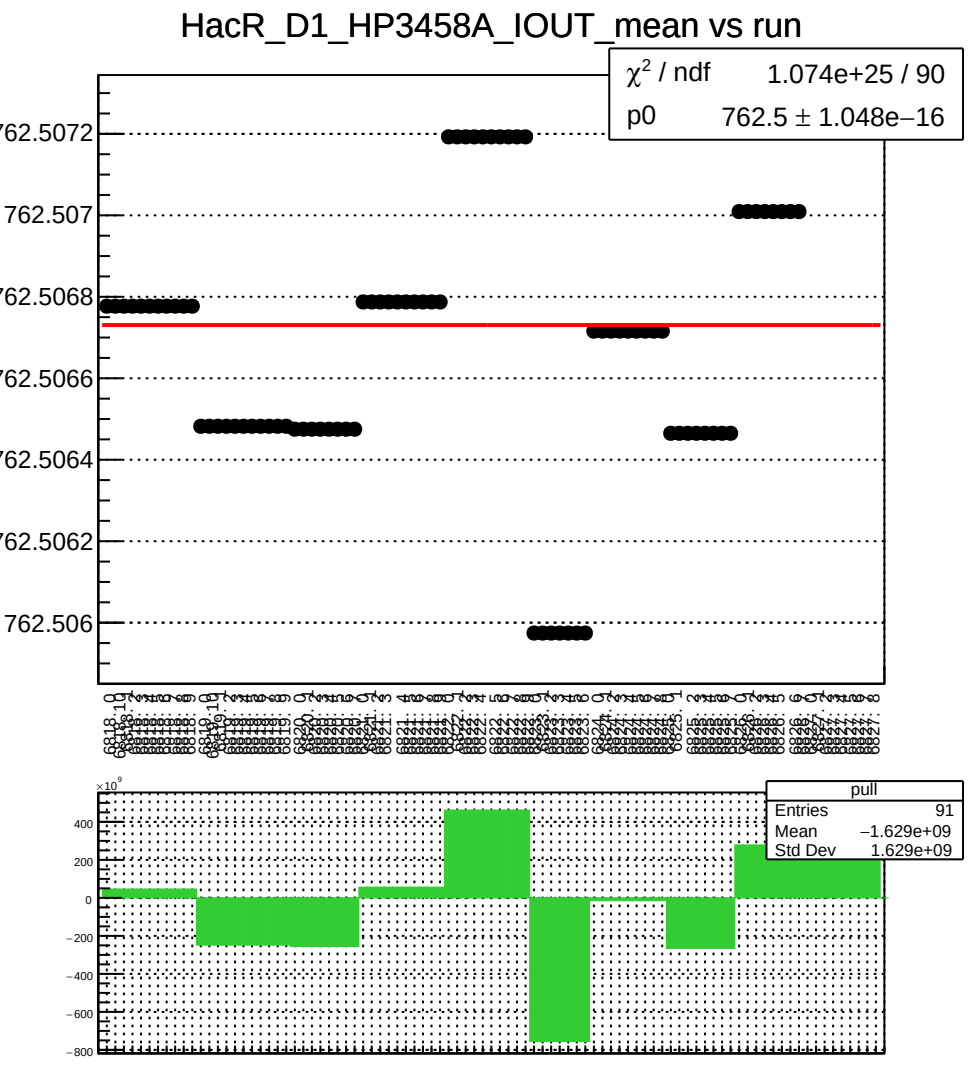

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

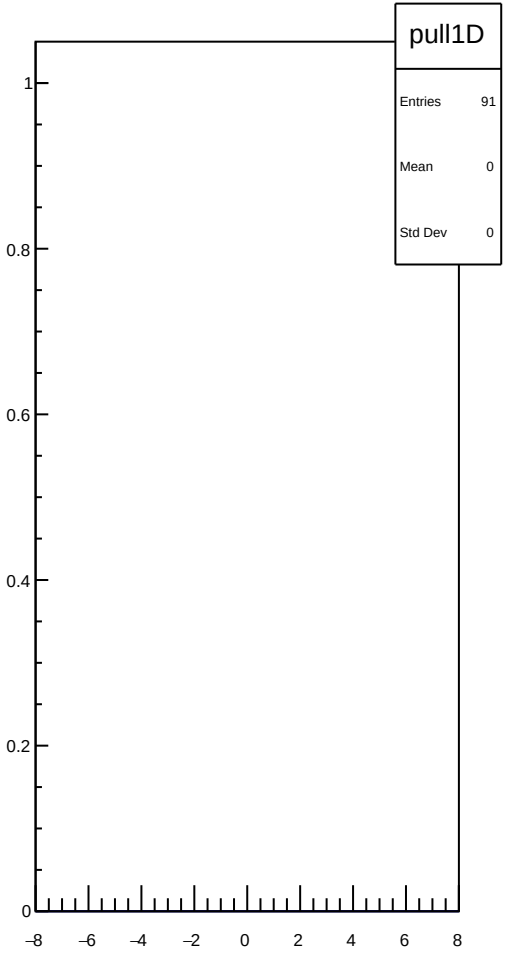

MQ172RM_mean vs run
χ^2 / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27

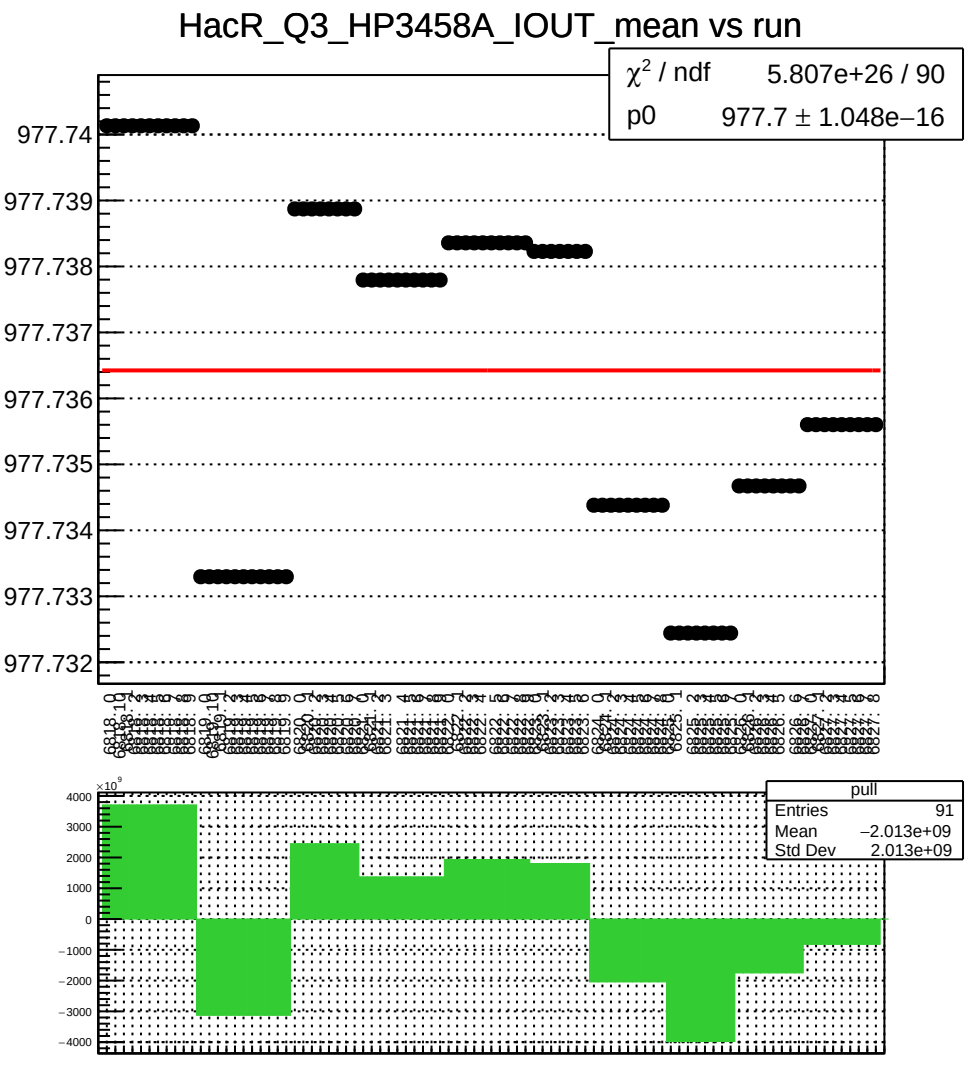

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

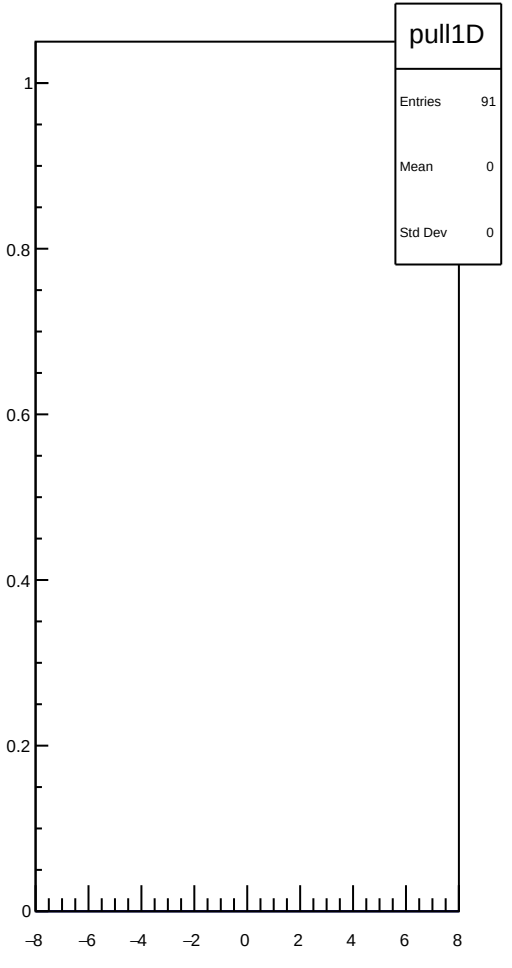

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.565e+28 / 90
p0 925 ± 1.048e−16
925.035
925.03
925.025
925.02
925.015
925.01
925.005
925
924.995
pull
Entries 91
Mean −2.596e+09
Std Dev 2.596e+09
×10¹²
15
10
5
0
−5
−10
−15
−20
−25

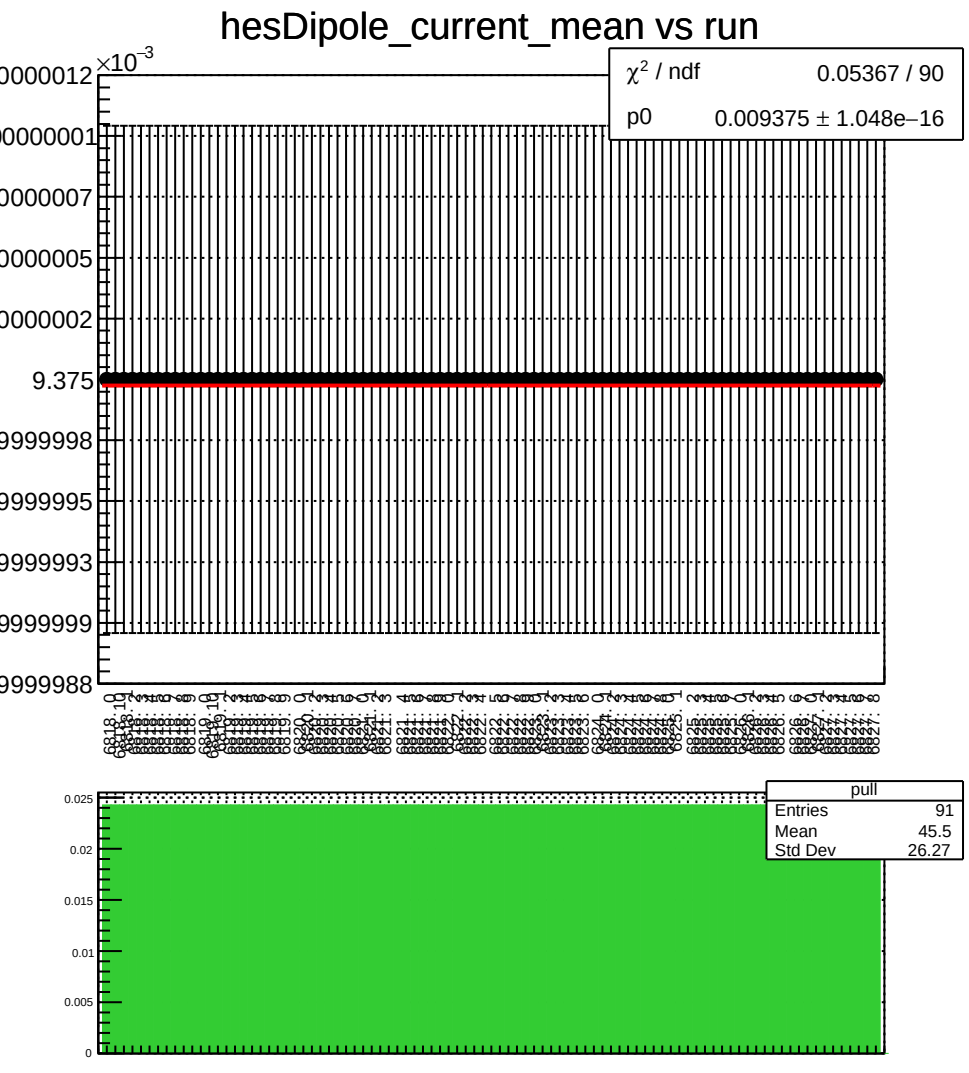

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

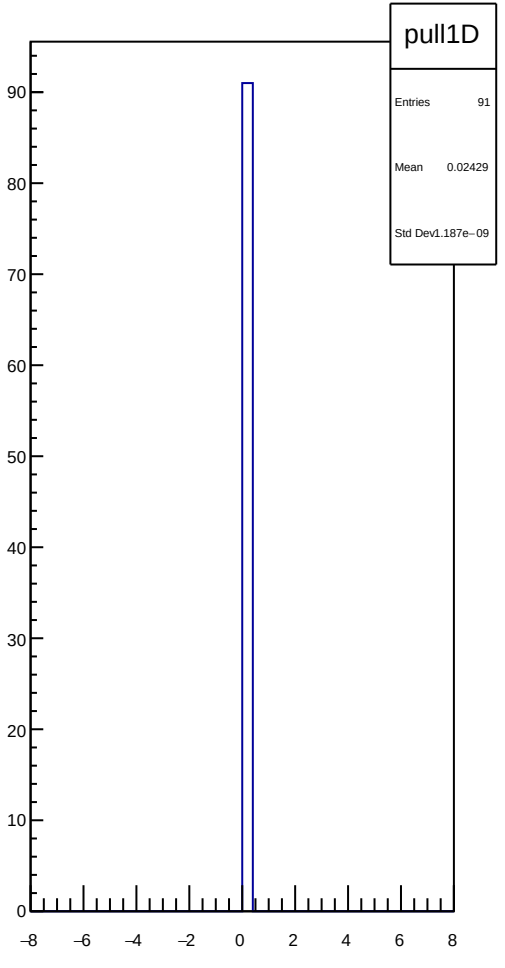

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.074e+25 / 90
p0 762.5 ± 1.048e−16
762.5072
762.507
762.5068
762.5066
762.5064
762.5062
762.506
pull
Entries 91
Mean −1.629e+09
Std Dev 1.629e+09
×10⁹
400
200
0
−200
−400
−600
−800

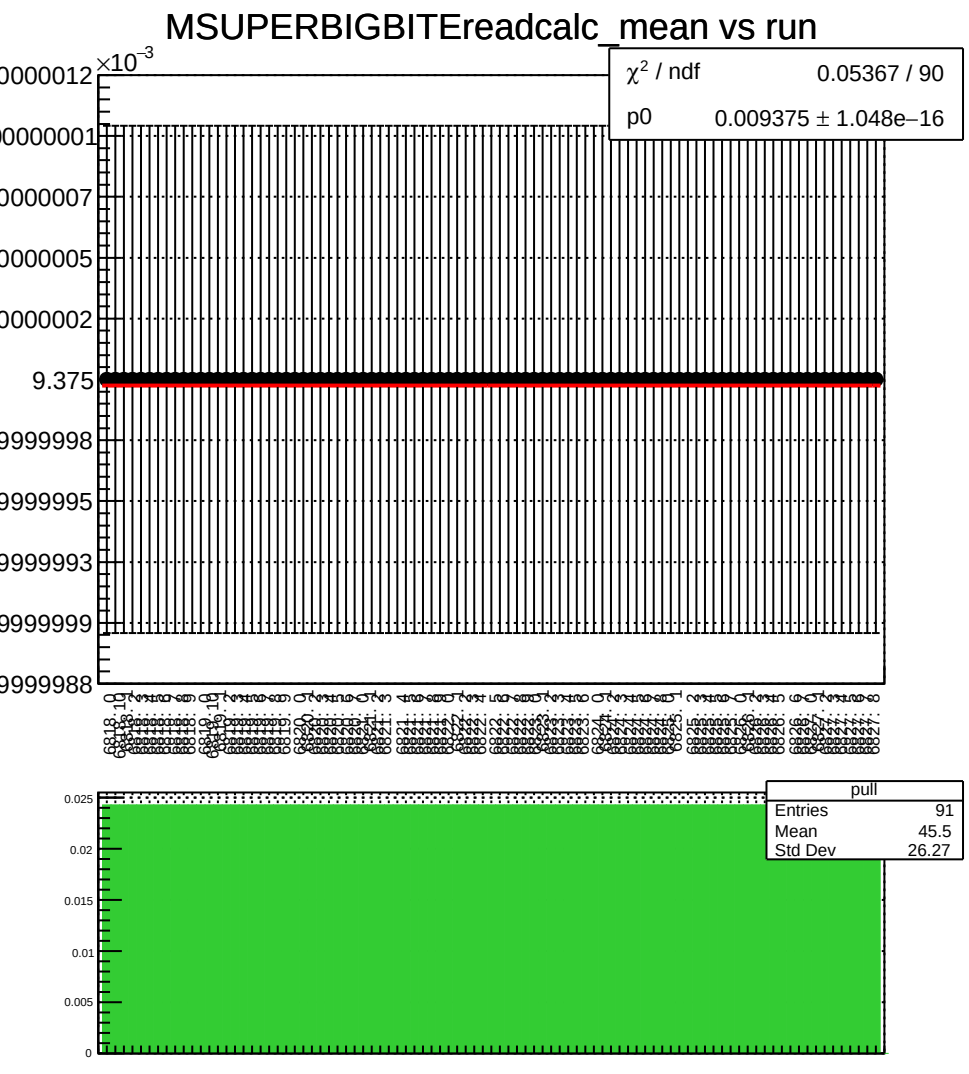

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

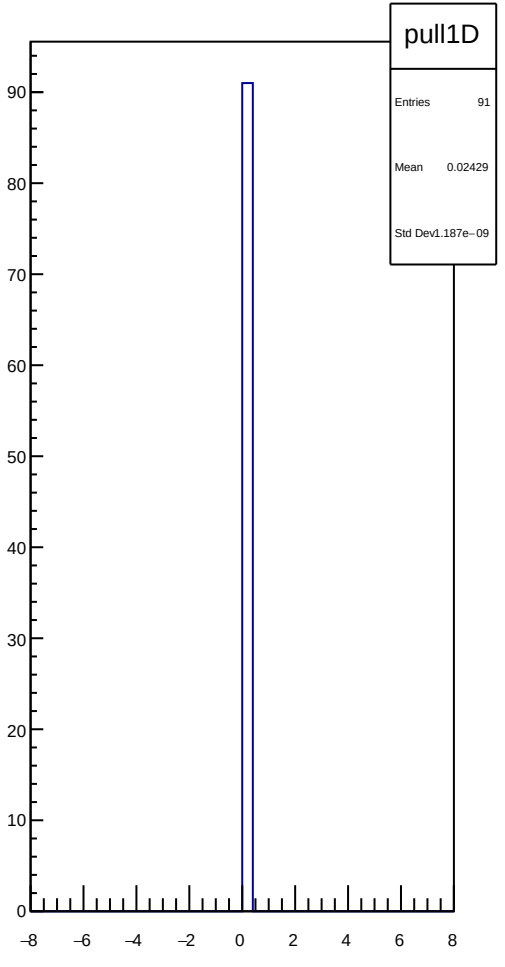

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.807e+26 / 90
p0 977.7 ± 1.048e−16
977.74
977.739
977.738
977.737
977.736
977.735
977.734
977.733
977.732
pull
Entries 91
Mean −2.013e+09
Std Dev 2.013e+09
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

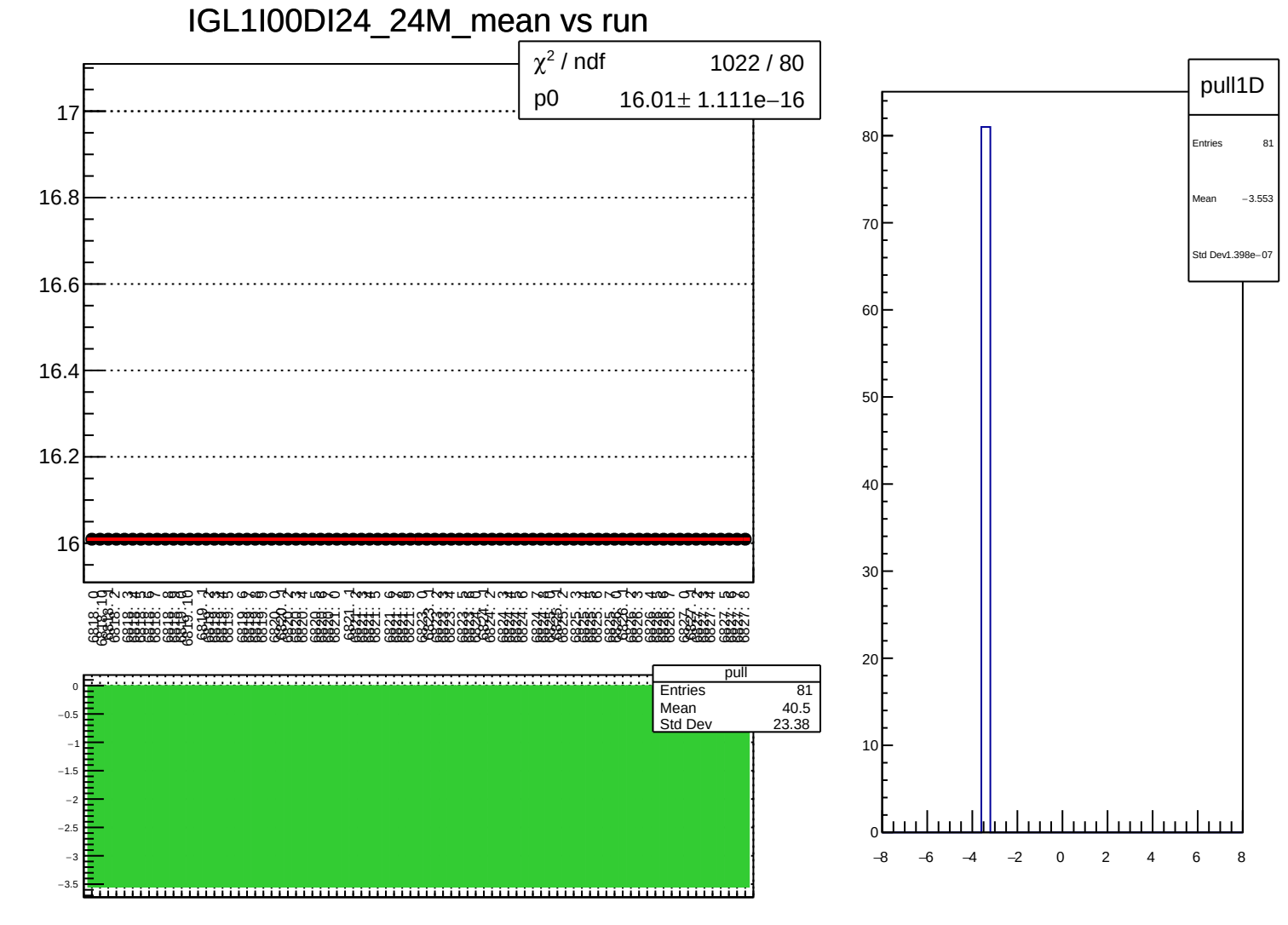

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

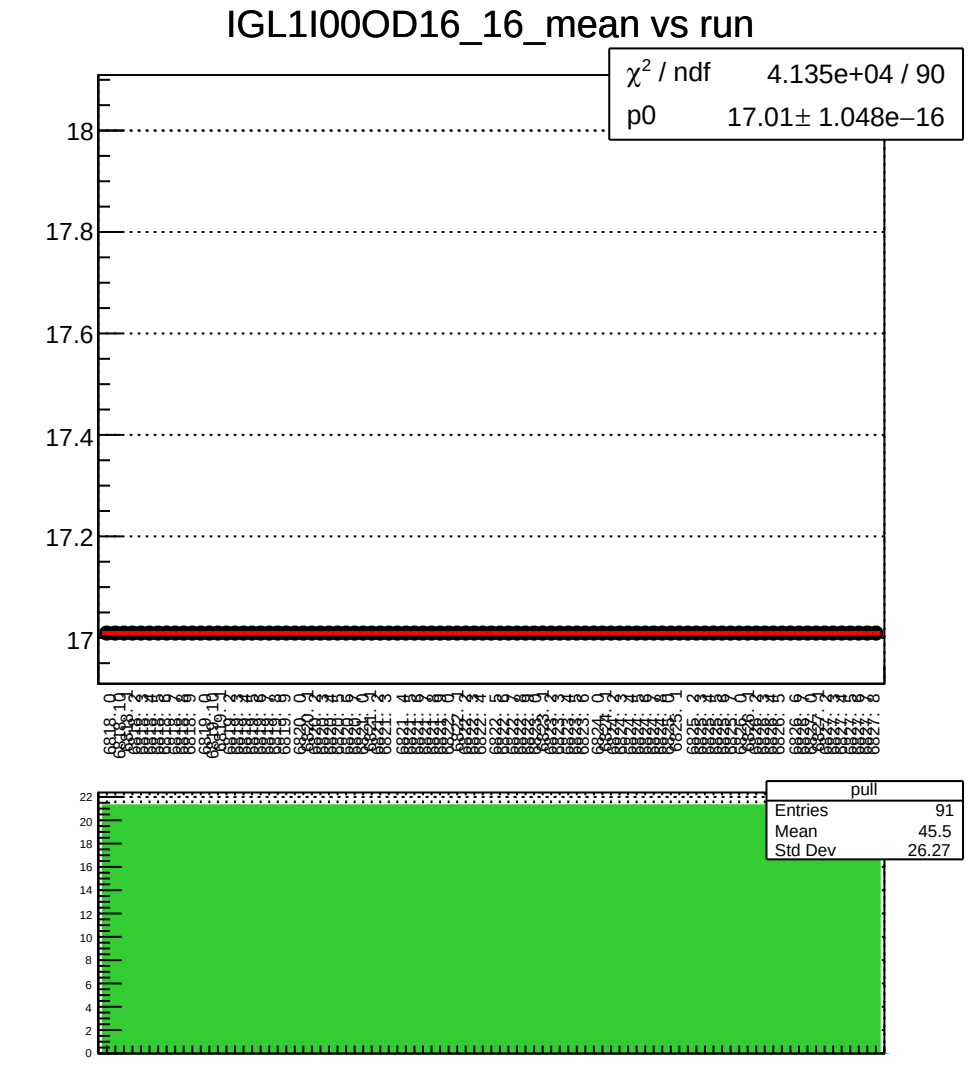

hesDipole_current_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27

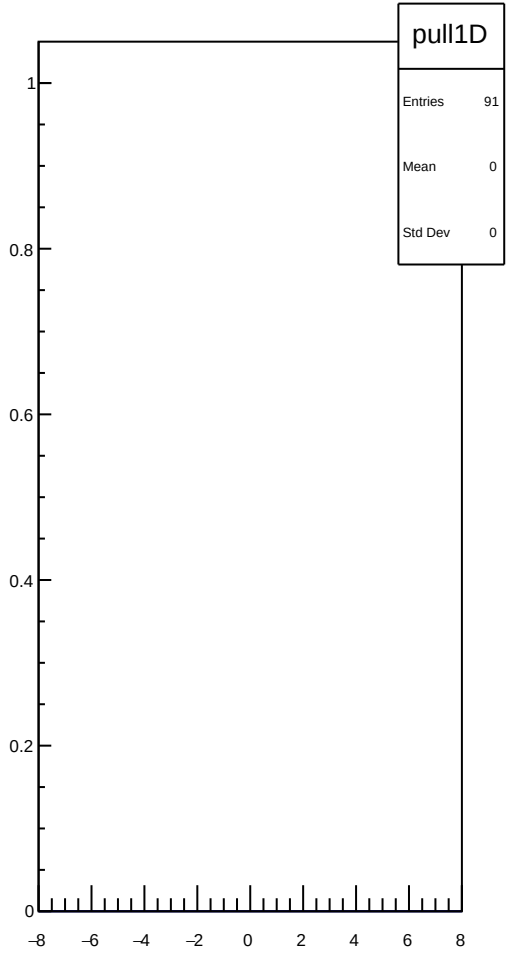

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

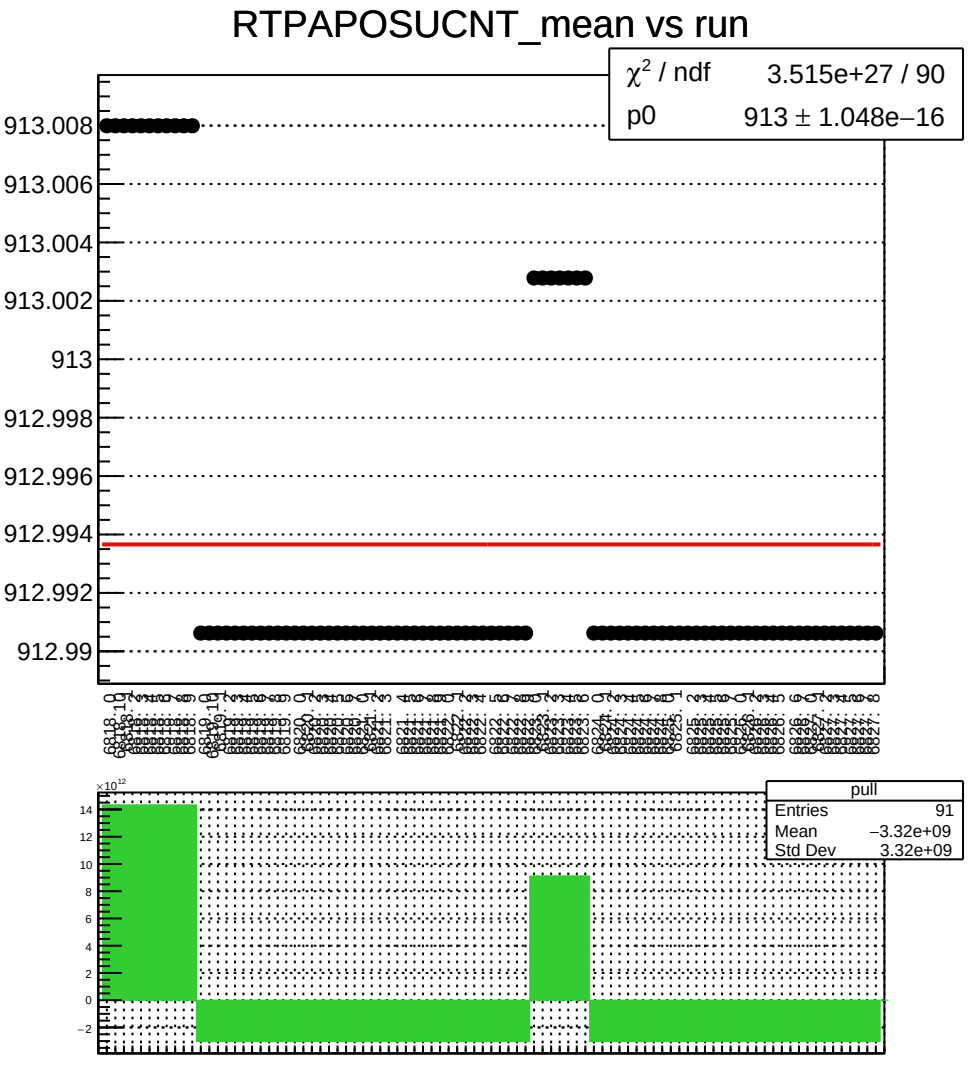

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27

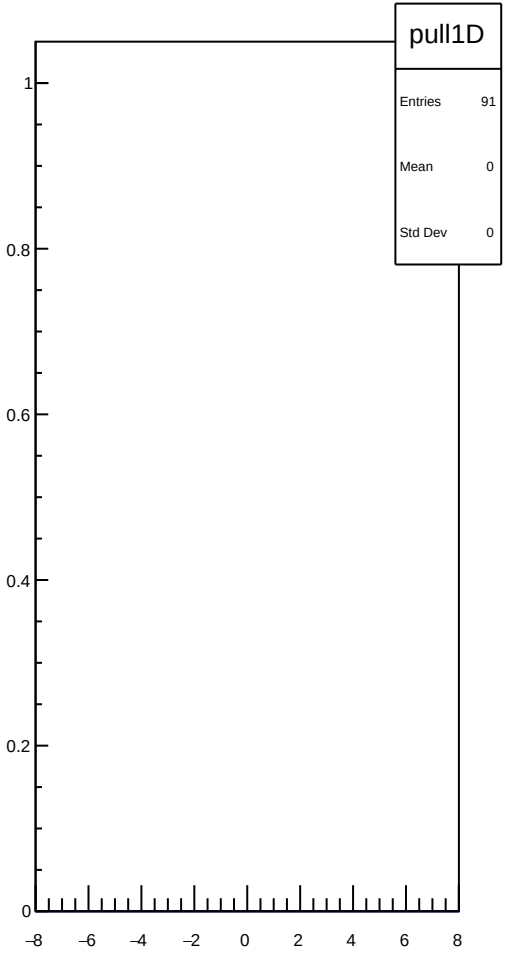

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

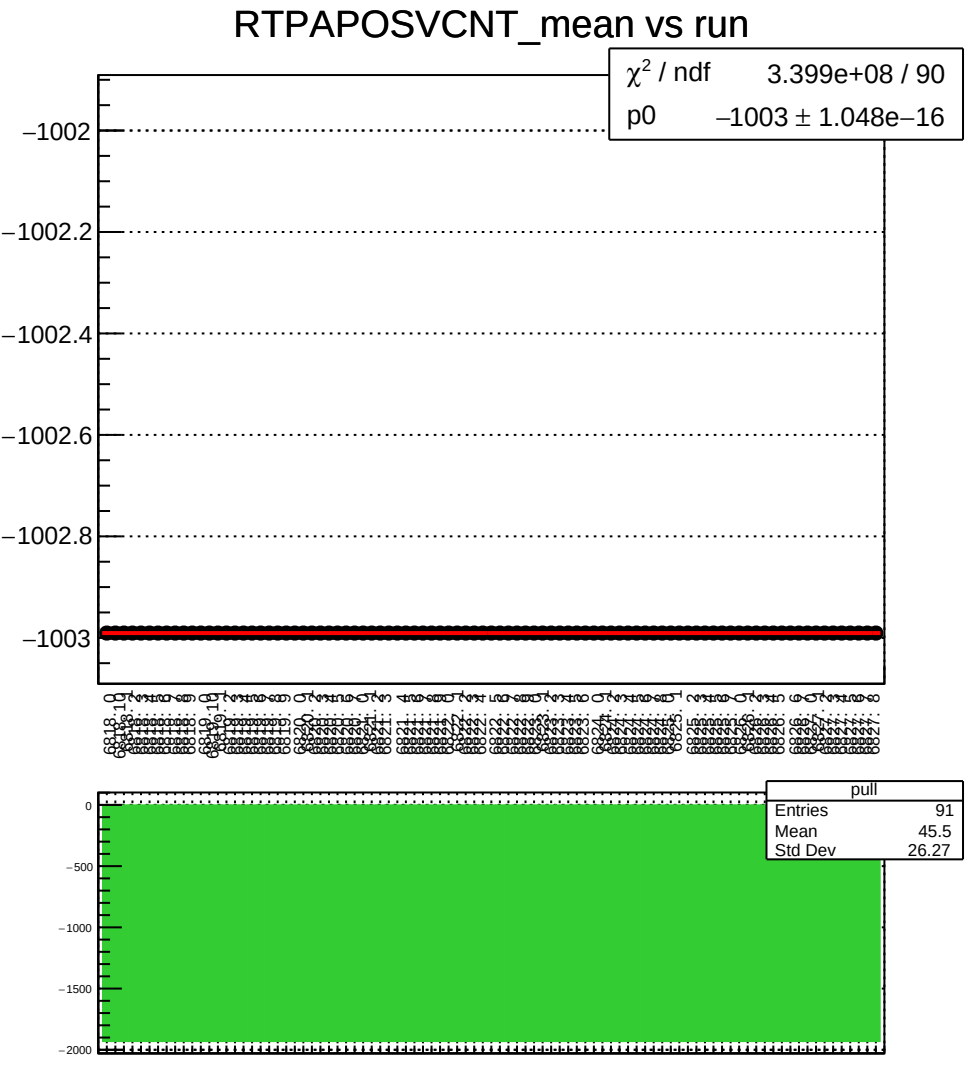

IGL1I00DI24_24M_mean vs run
χ² / ndf 1022 / 80
p0 16.01± 1.111e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 81
Mean −3.553
Std Dev1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

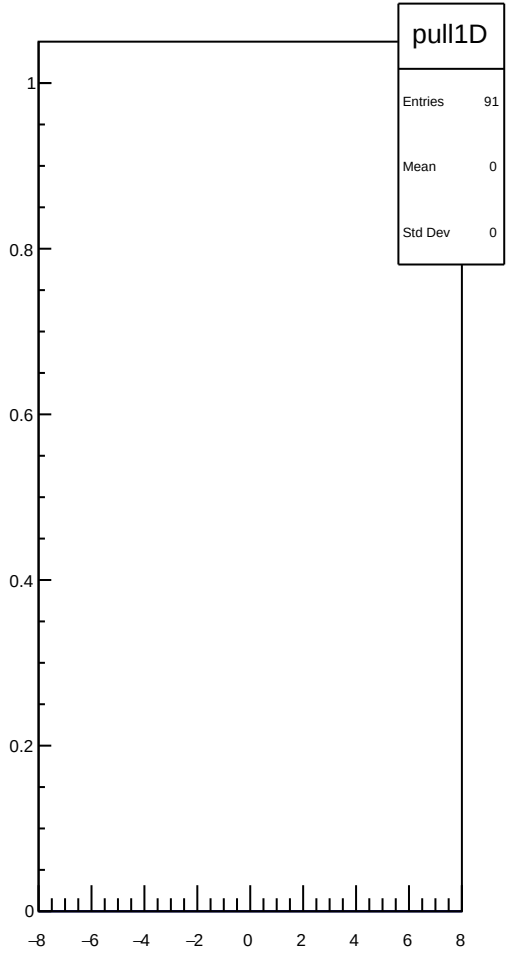

IGL1I00OD16_16_mean vs run
χ² / ndf 4.135e+04 / 90
p0 17.01± 1.048e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 91
Mean 45.5
Std Dev 26.27
22
20
18
16
14
12
10
8
6
4
2
0


pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 3.515e+27 / 90
p0 913 ± 1.048e−16
913.008
913.006
913.004
913.002
913
912.998
912.996
912.994
912.992
912.99
pull
Entries 91
Mean −3.32e+09
Std Dev 3.32e+09
×10¹²
14
12
10
8
6
4
2
0
−2


pull1D
Entries 91
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 3.399e+08 / 90
p0 −1003 ± 1.048e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−500
−1000
−1500
−2000


pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8