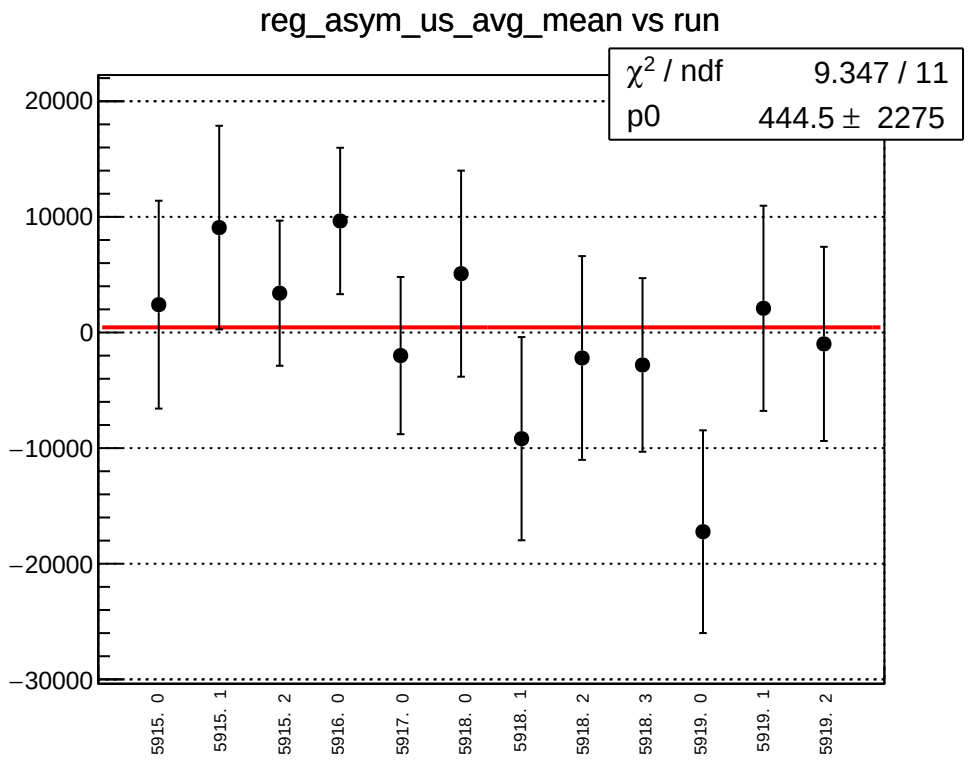
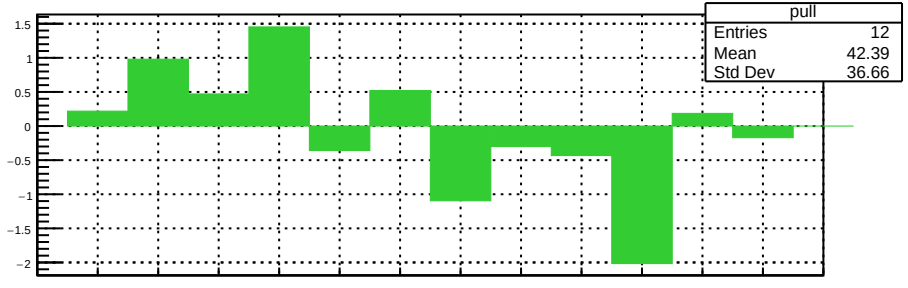
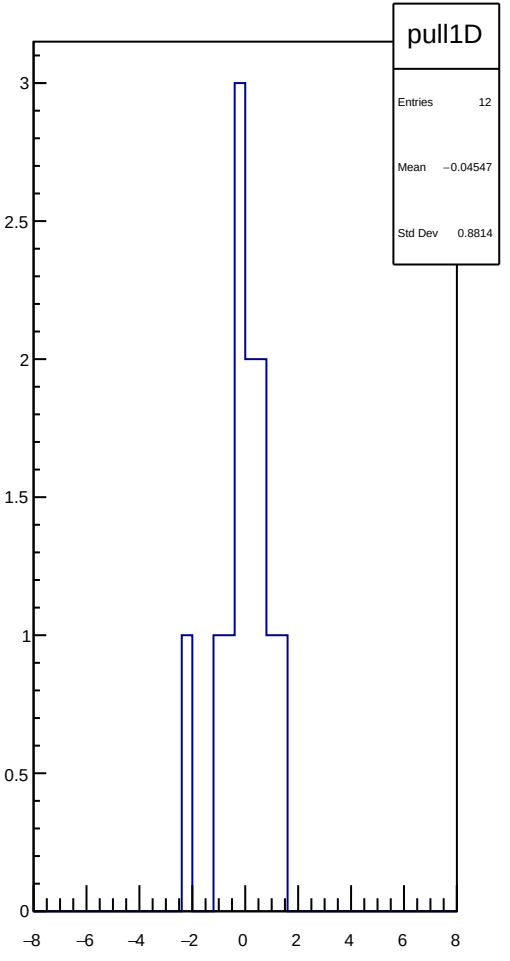
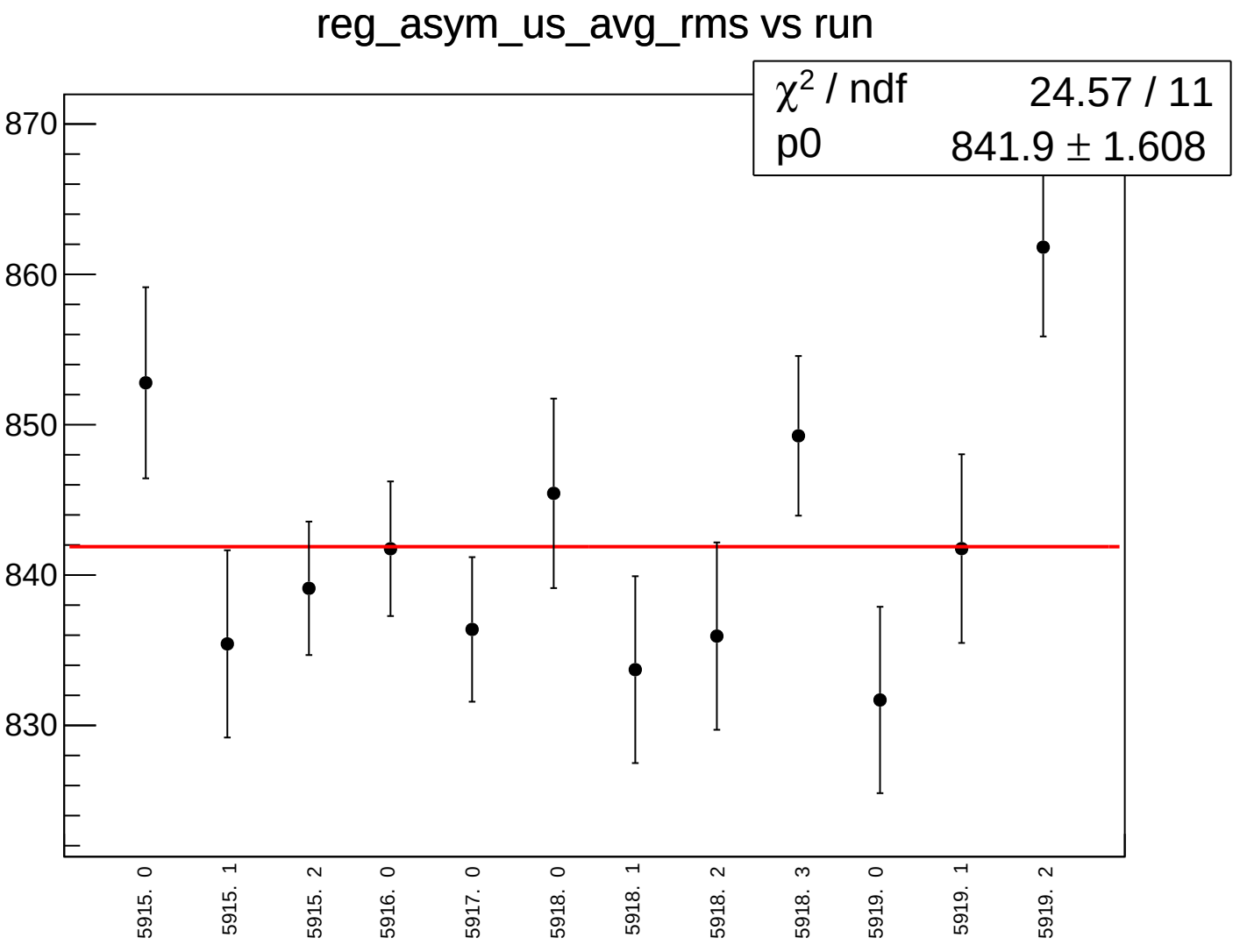
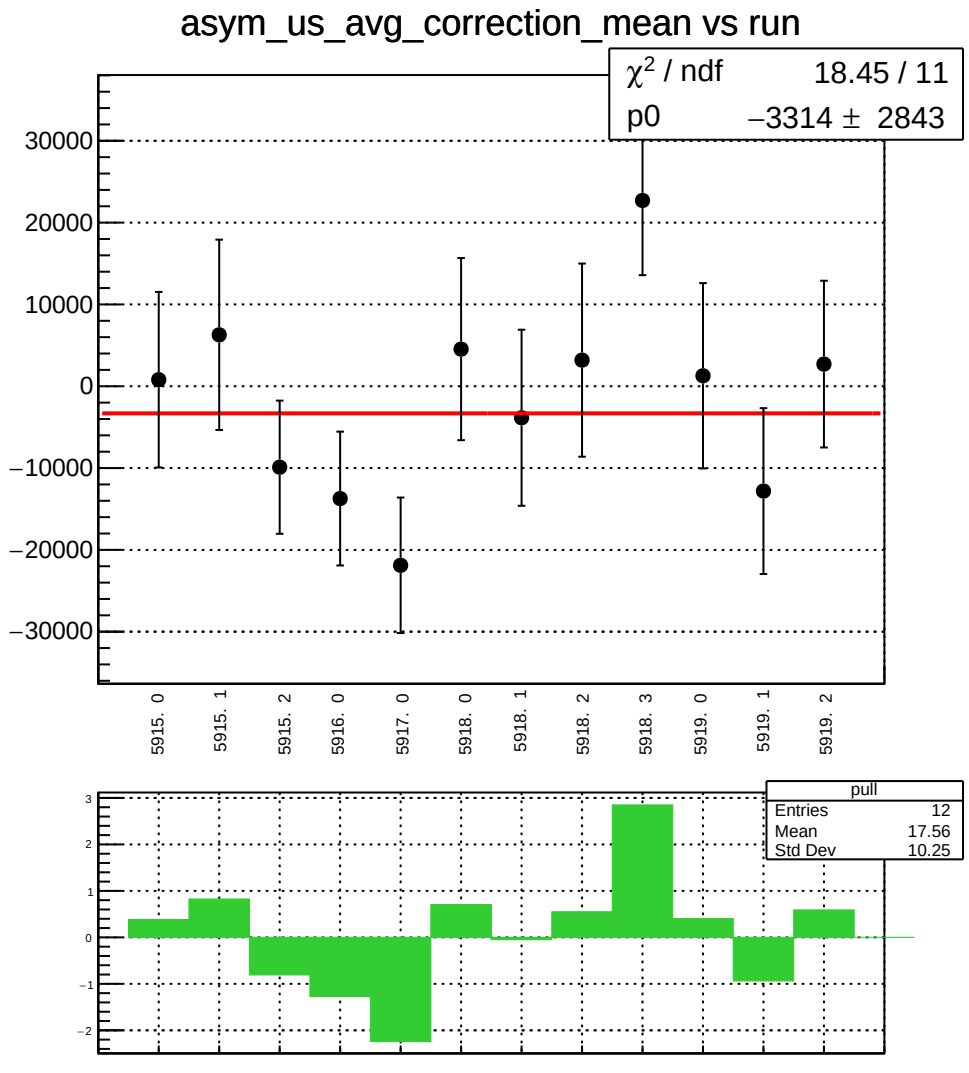
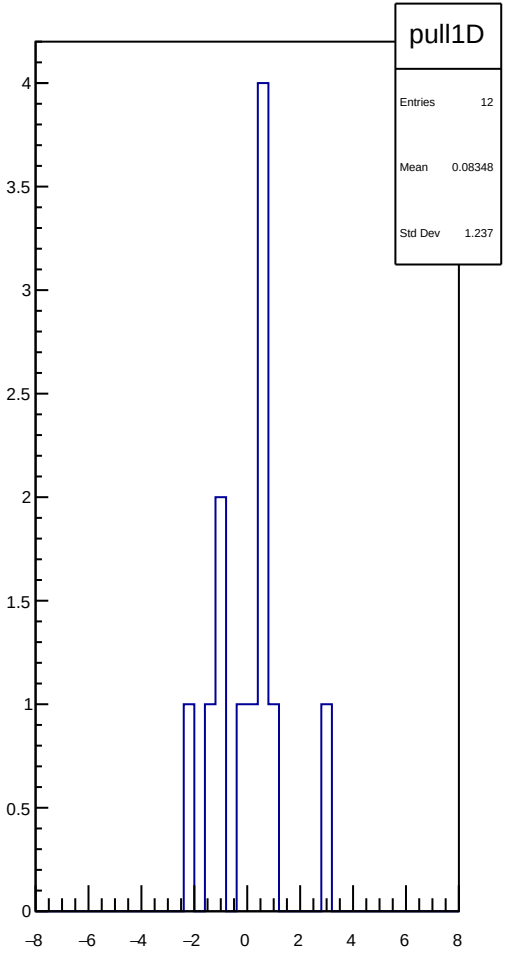

reg_asym_us_avg_mean vs run
χ² / ndf 9.347 / 11
p0 444.5 ± 2275
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

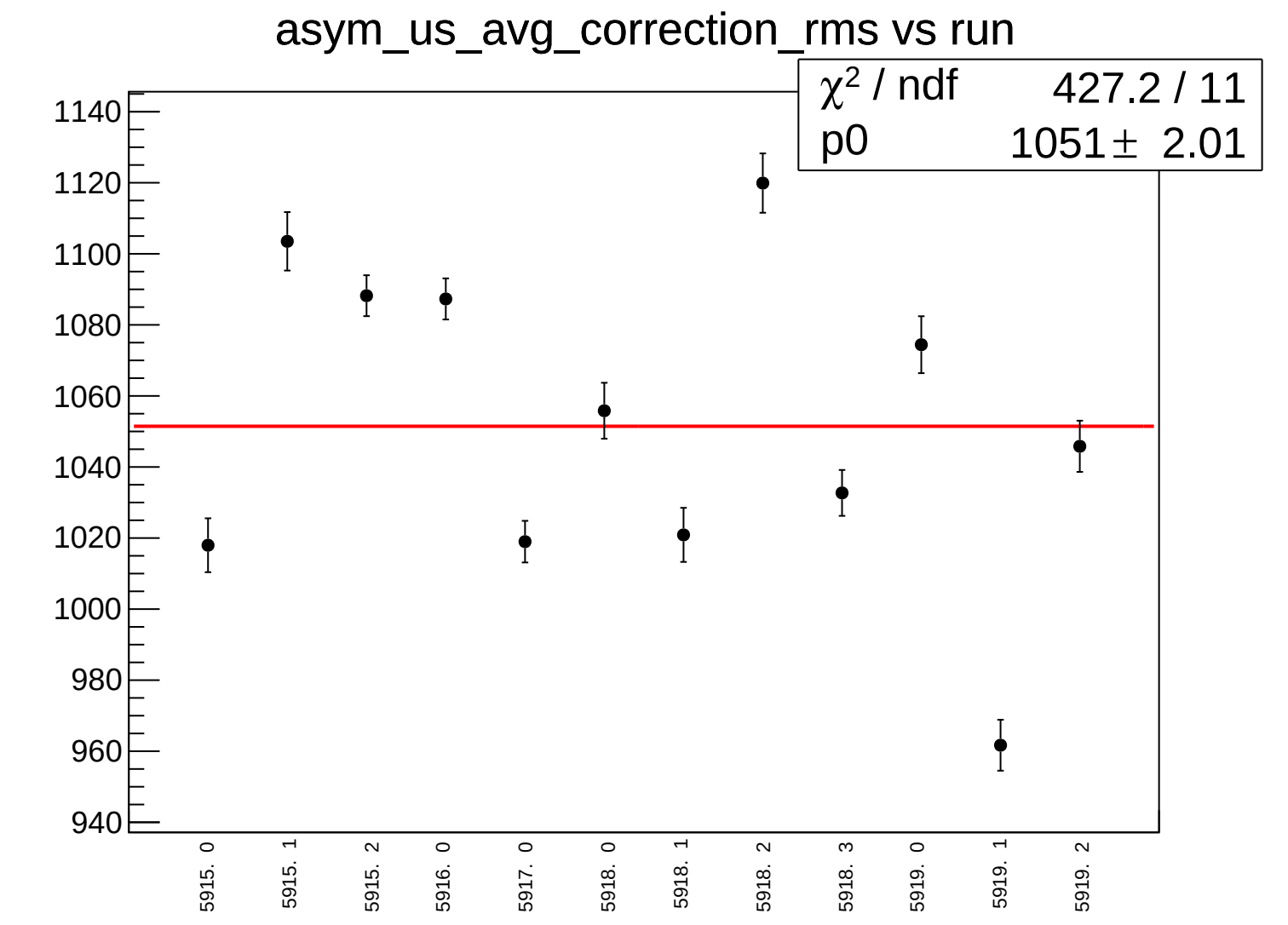

pull
Entries 12
Mean 42.39
Std Dev 36.66
1.5
1
0.5
0
−0.5
−1
−1.5
−2

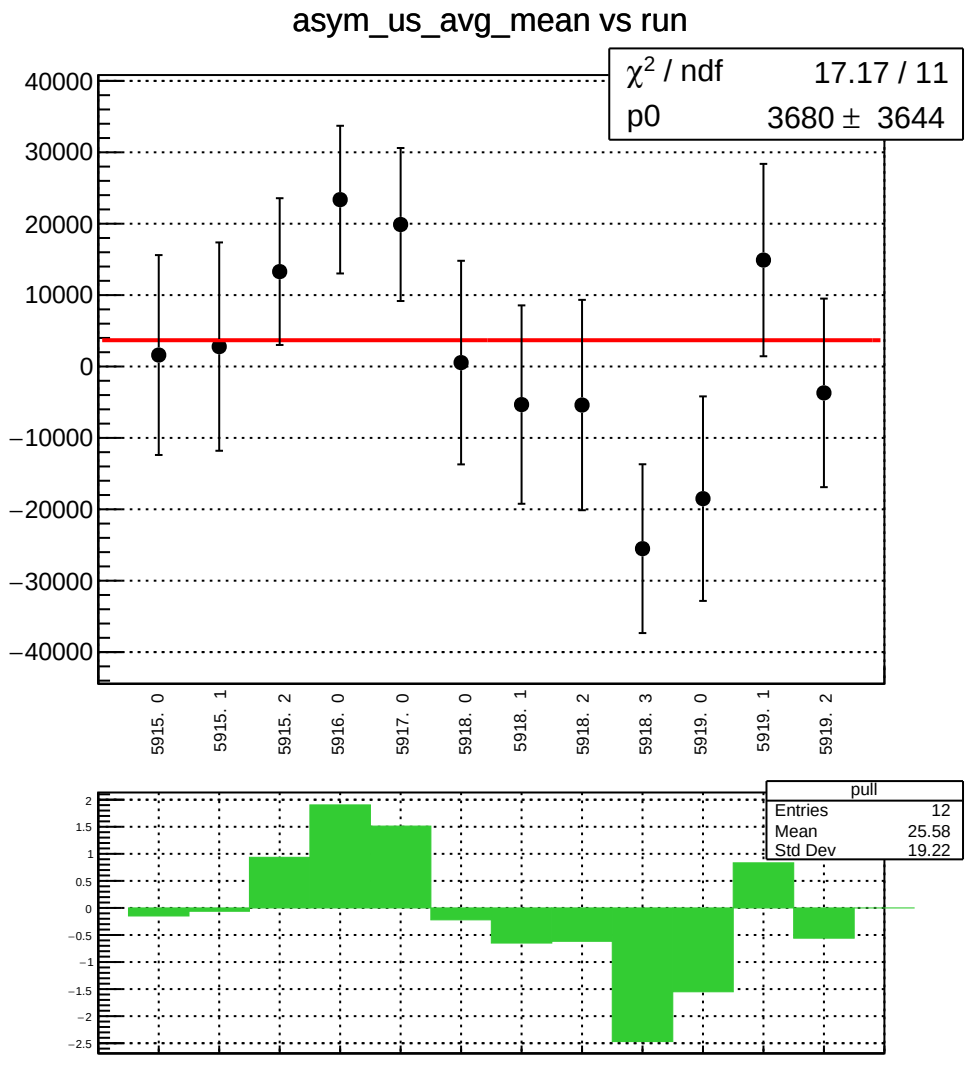

pull1D
Entries 12
Mean −0.04547
Std Dev 0.8814
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

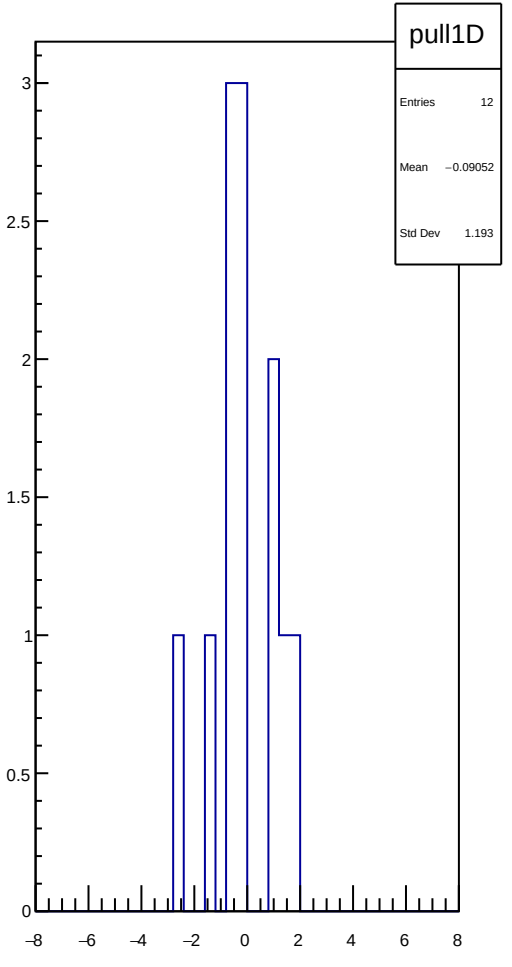

reg_asym_us_avg_rms vs run
χ² / ndf 24.57 / 11
p0 841.9 ± 1.608
870
860
850
840
830
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

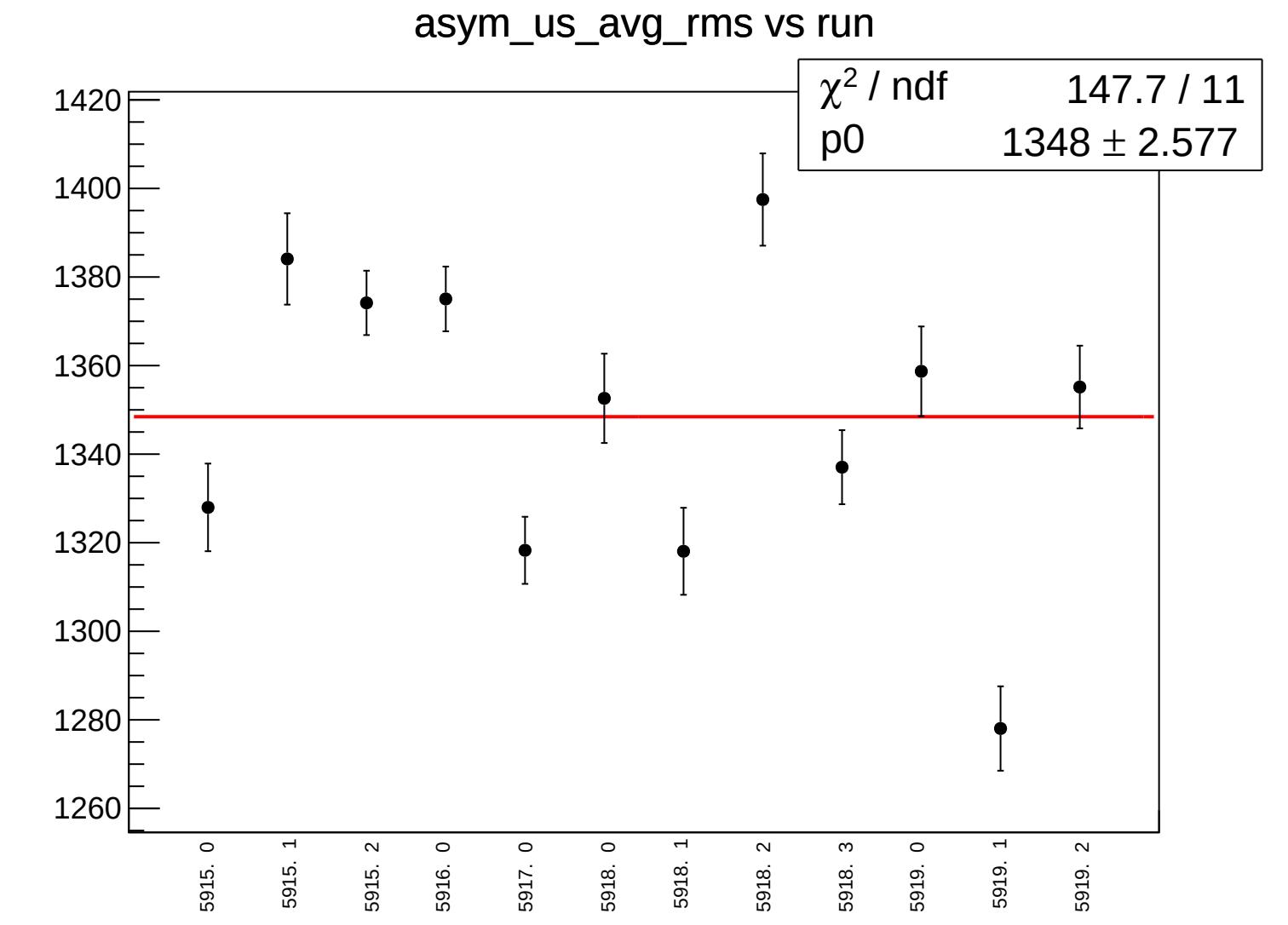

asym_us_avg_correction_mean vs run
χ² / ndf 18.45 / 11
p0 −3314 ± 2843
30000
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 17.56
Std Dev 10.25
3
2
1
0
−1
−2

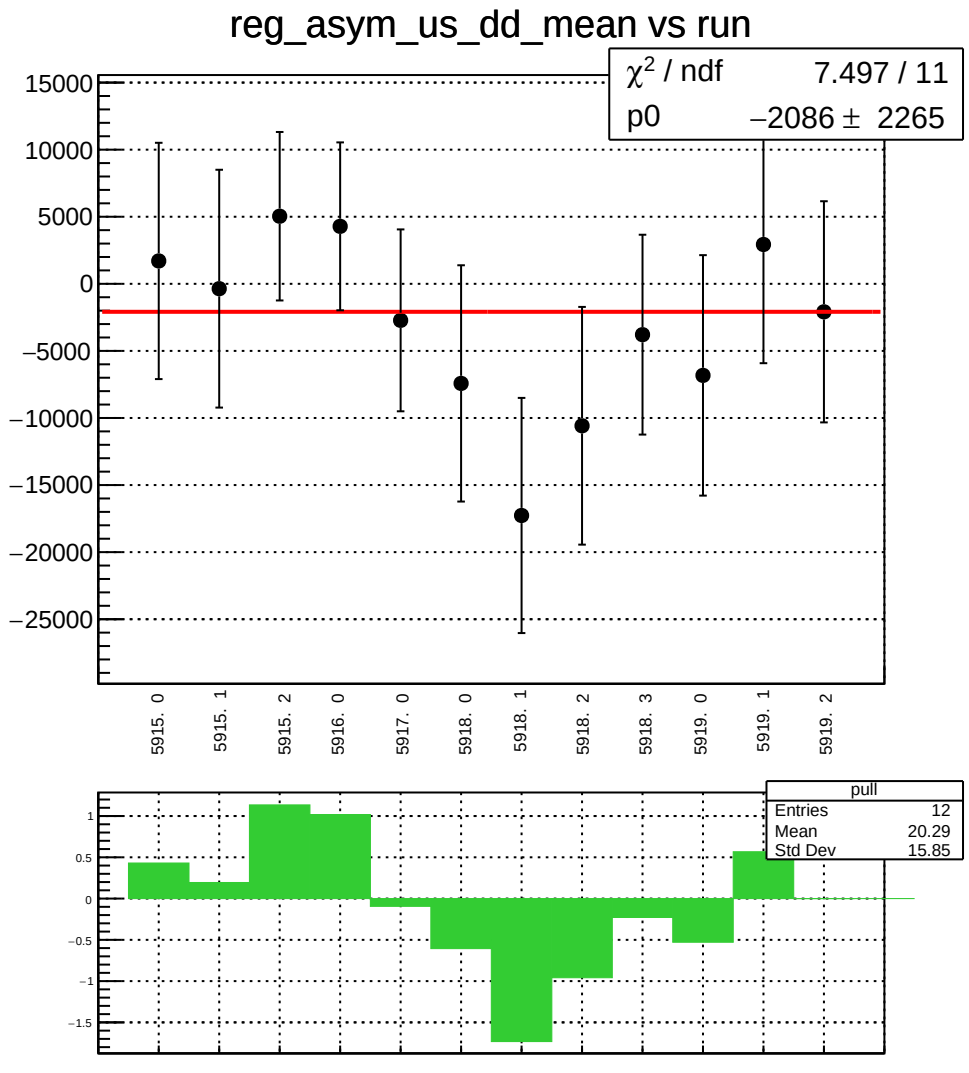

pull1D
Entries 12
Mean 0.08348
Std Dev 1.237
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

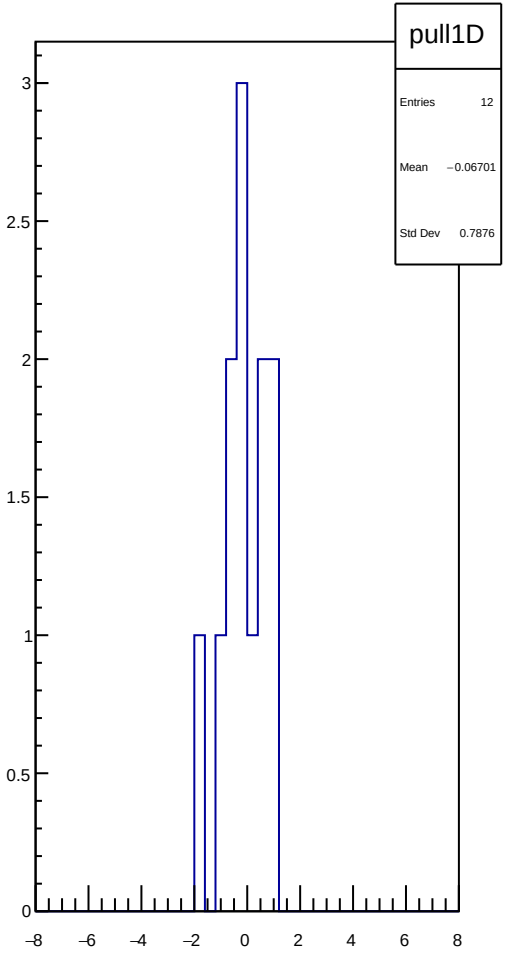

asym_us_avg_correction_rms vs run
χ² / ndf 427.2 / 11
p0 1051 ± 2.01
1140
1120
1100
1080
1060
1040
1020
1000
980
960
940
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

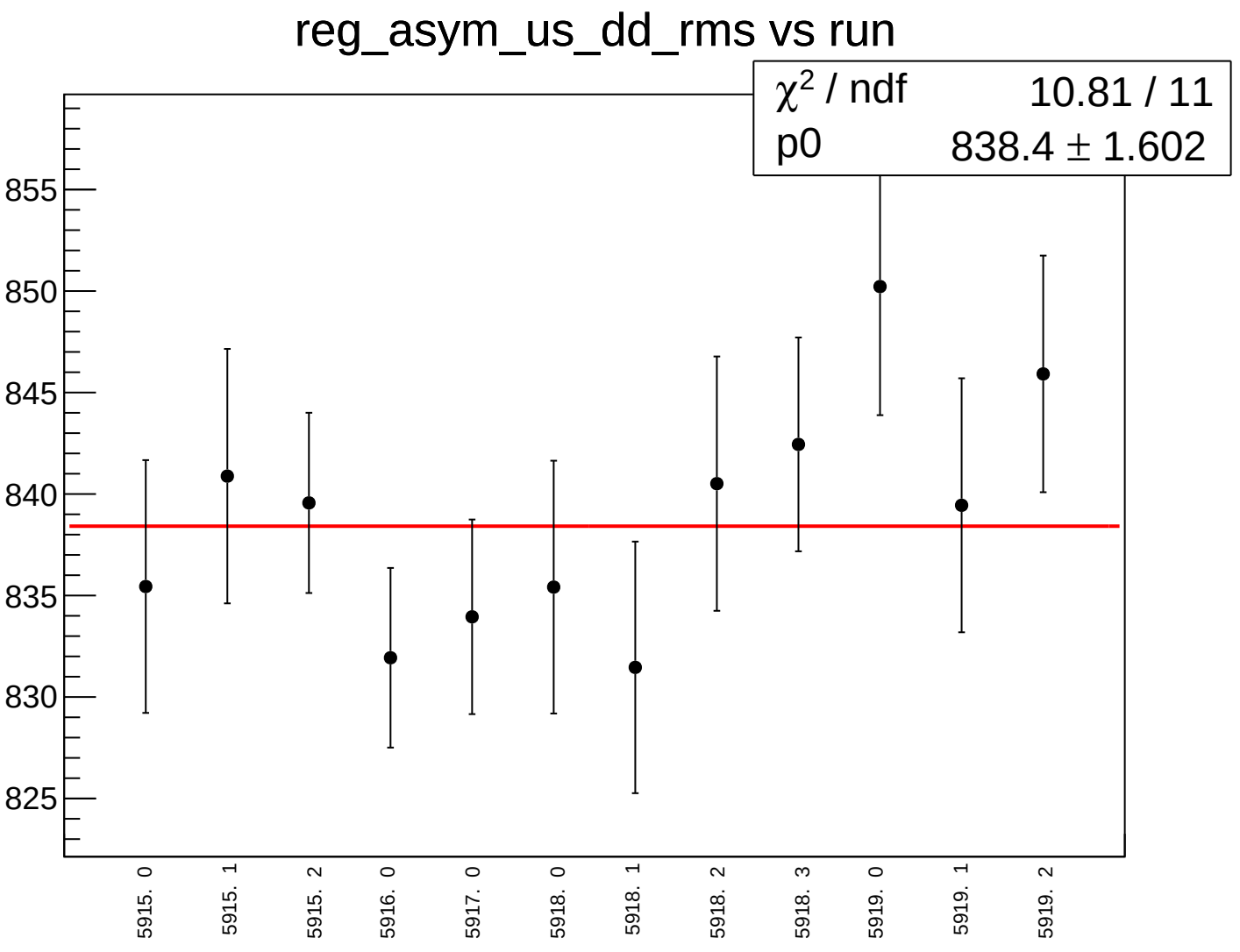

asym_us_avg_mean vs run
χ² / ndf 17.17 / 11
p0 3680 ± 3644
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 25.58
Std Dev 19.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

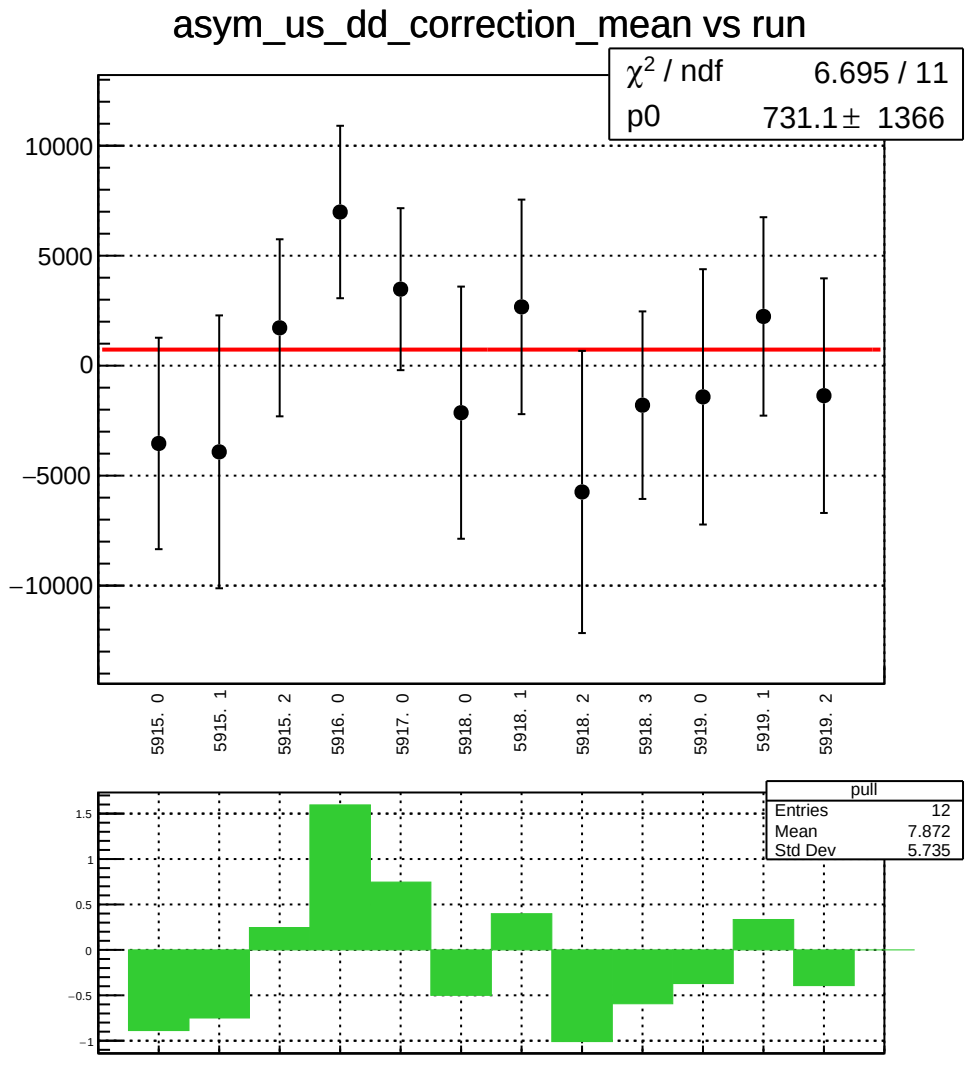

pull1D
Entries 12
Mean −0.09052
Std Dev 1.193
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

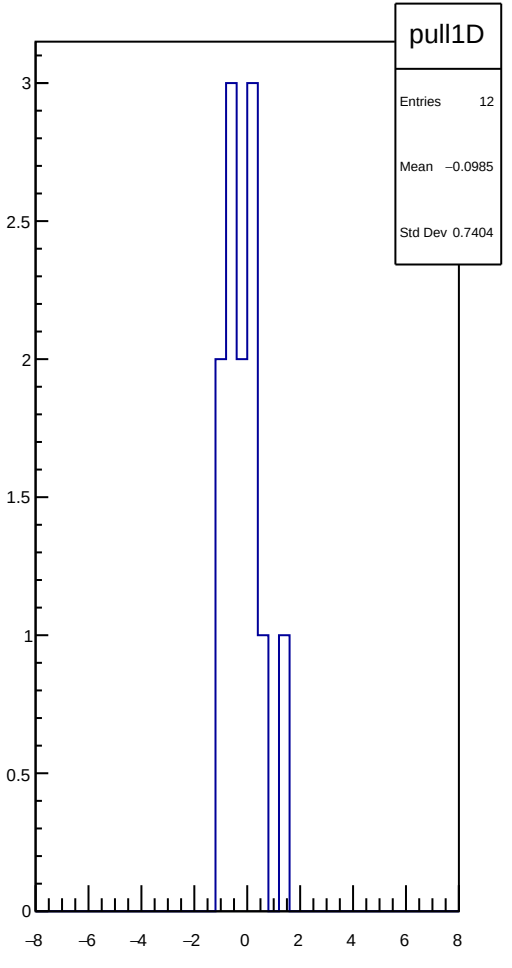

asym_us_avg_rms vs run
χ² / ndf 147.7 / 11
p0 1348 ± 2.577
1420
1400
1380
1360
1340
1320
1300
1280
1260
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

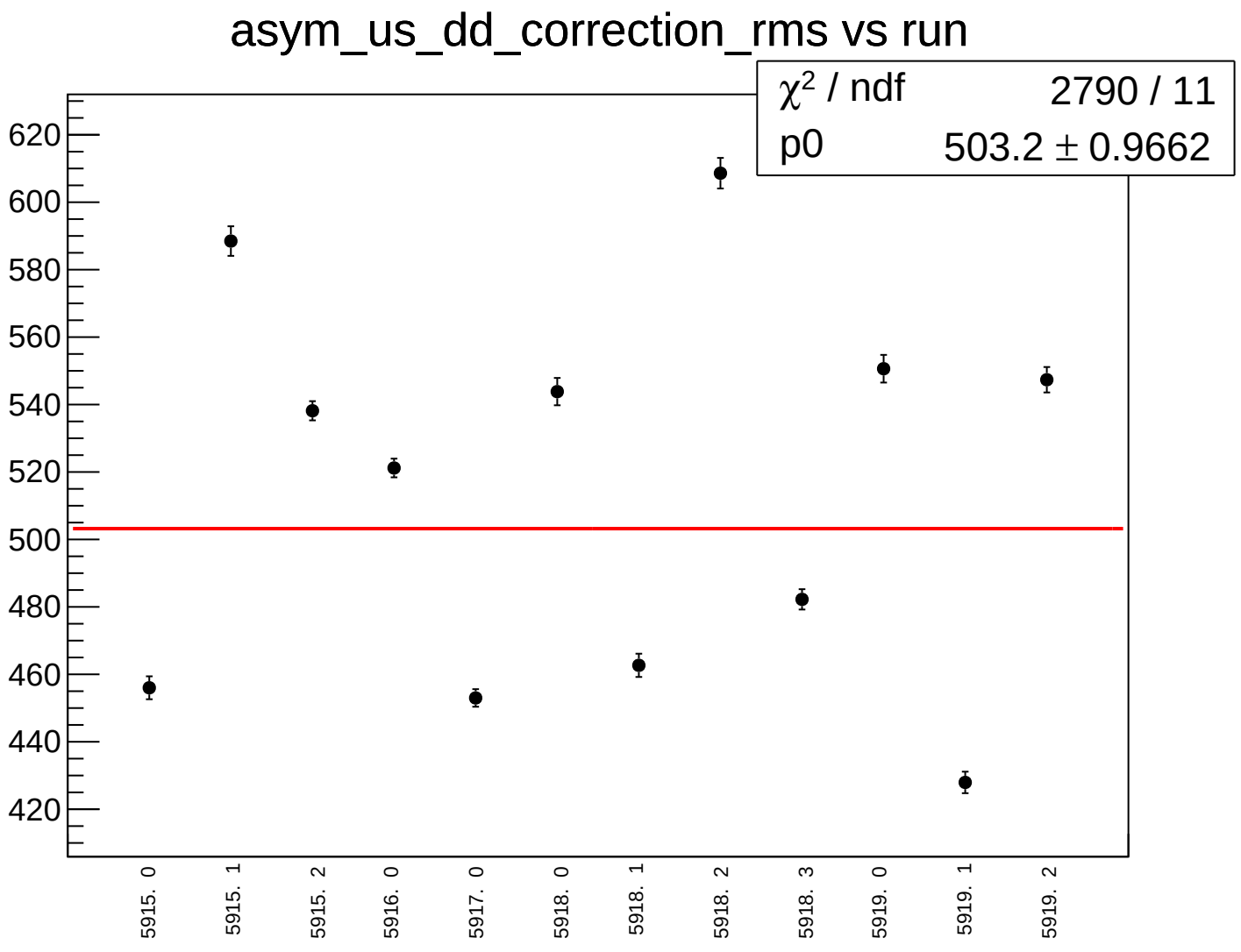

reg_asym_us_dd_mean vs run
χ² / ndf 7.497 / 11
p0 −2086 ± 2265
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 20.29
Std Dev 15.85
1
0.5
0
−0.5
−1
−1.5

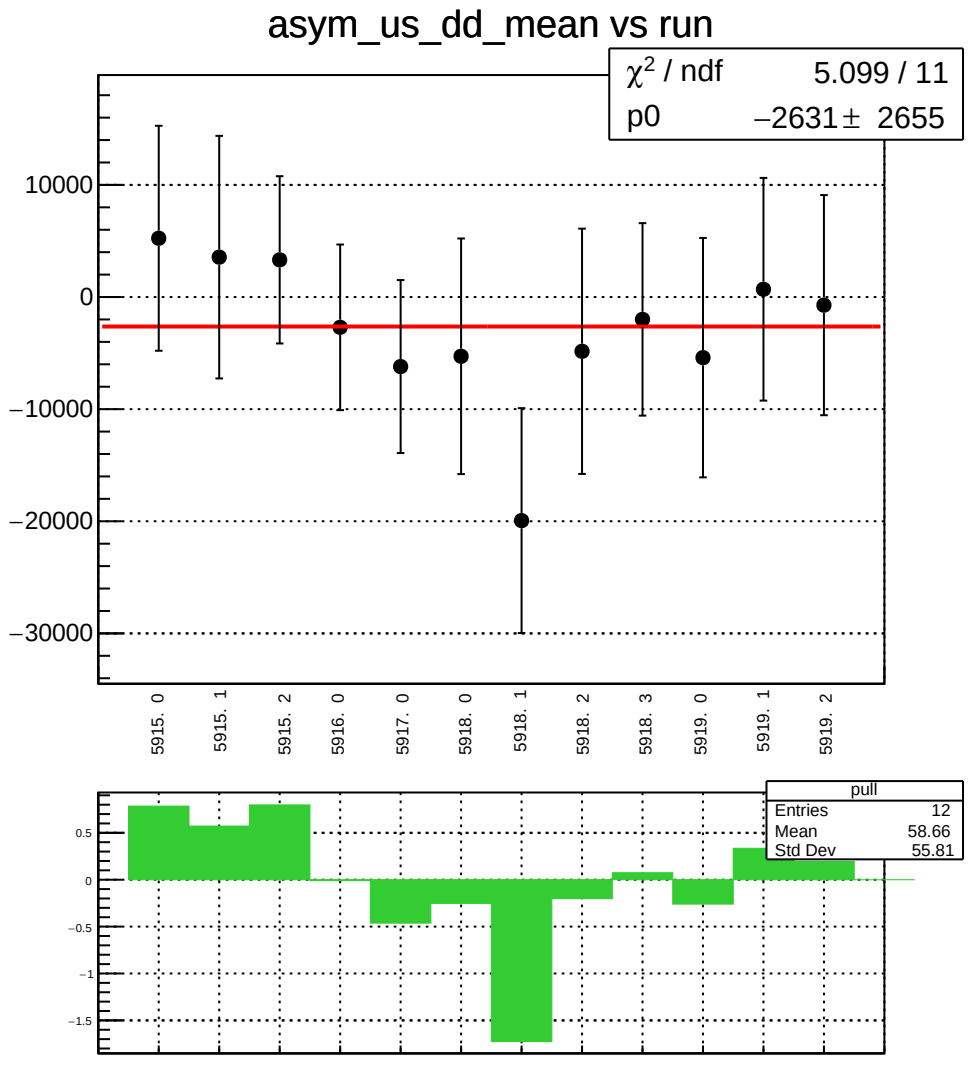

pull1D
Entries 12
Mean −0.06701
Std Dev 0.7876
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

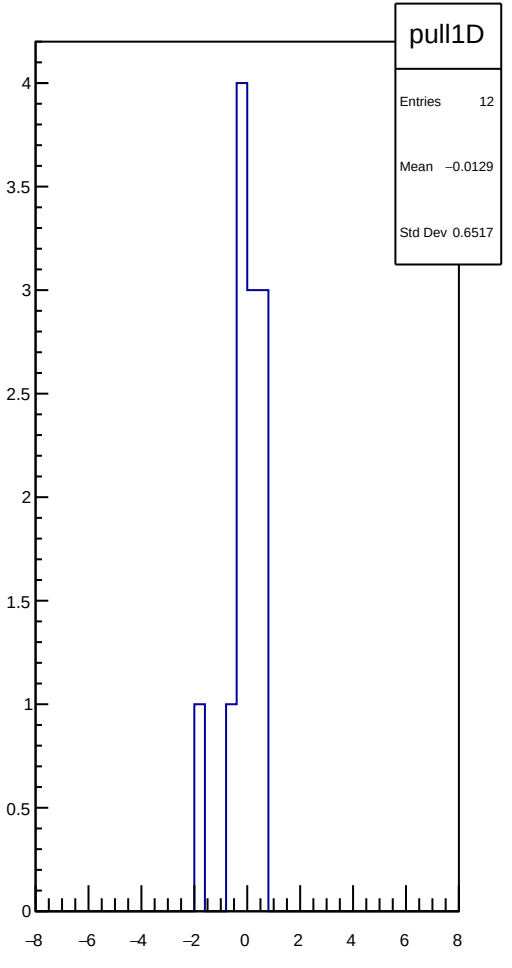

reg_asym_us_dd_rms vs run
χ² / ndf 10.81 / 11
p0 838.4 ± 1.602
855
850
845
840
835
830
825
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

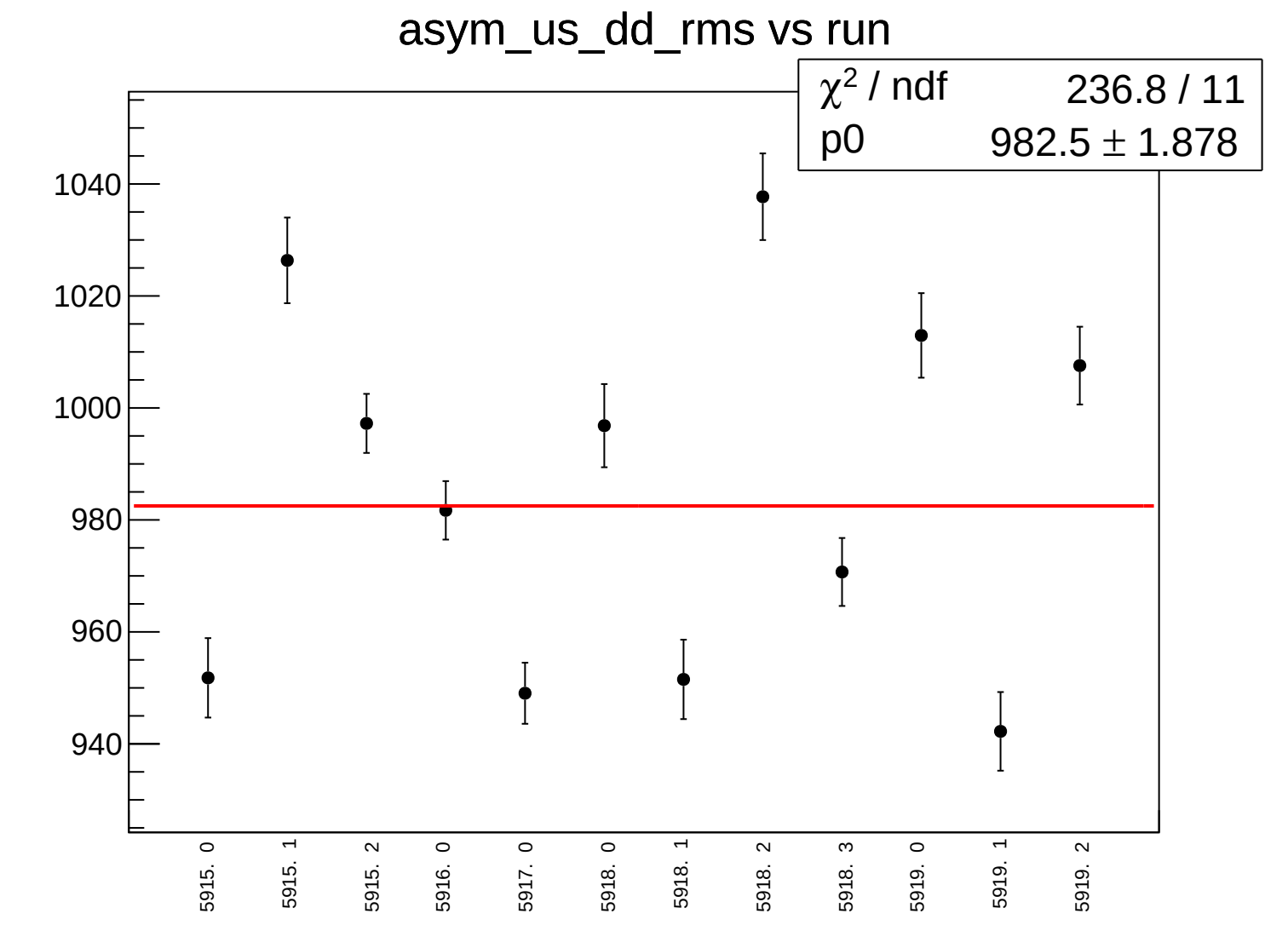

asym_us_dd_correction_mean vs run
χ² / ndf 6.695 / 11
p0 731.1 ± 1366
10000
5000
0
−5000
−10000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.872
Std Dev 5.735
1.5
1
0.5
0
−0.5
−1

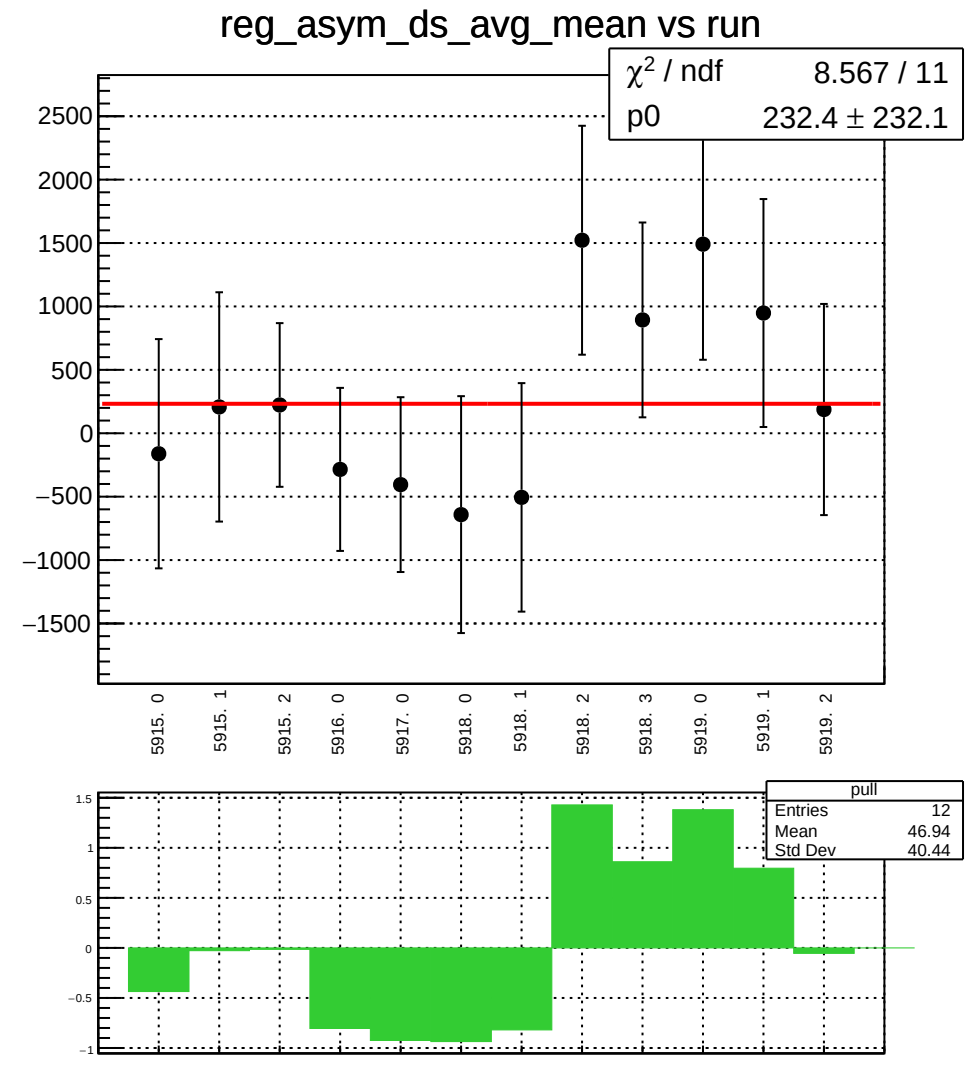

pull1D
Entries 12
Mean −0.0985
Std Dev 0.7404
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

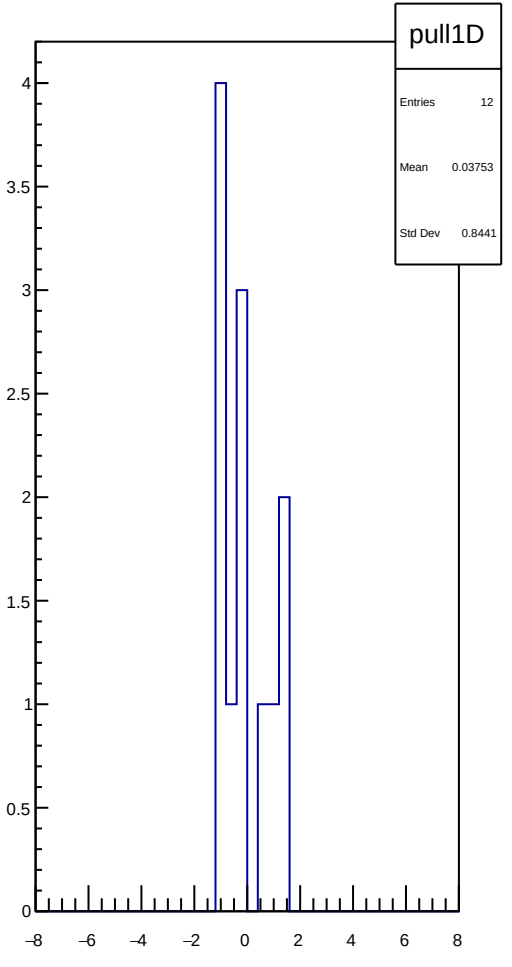

asym_us_dd_correction_rms vs run
χ² / ndf 2790 / 11
p0 503.2 ± 0.9662
620
600
580
560
540
520
500
480
460
440
420
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

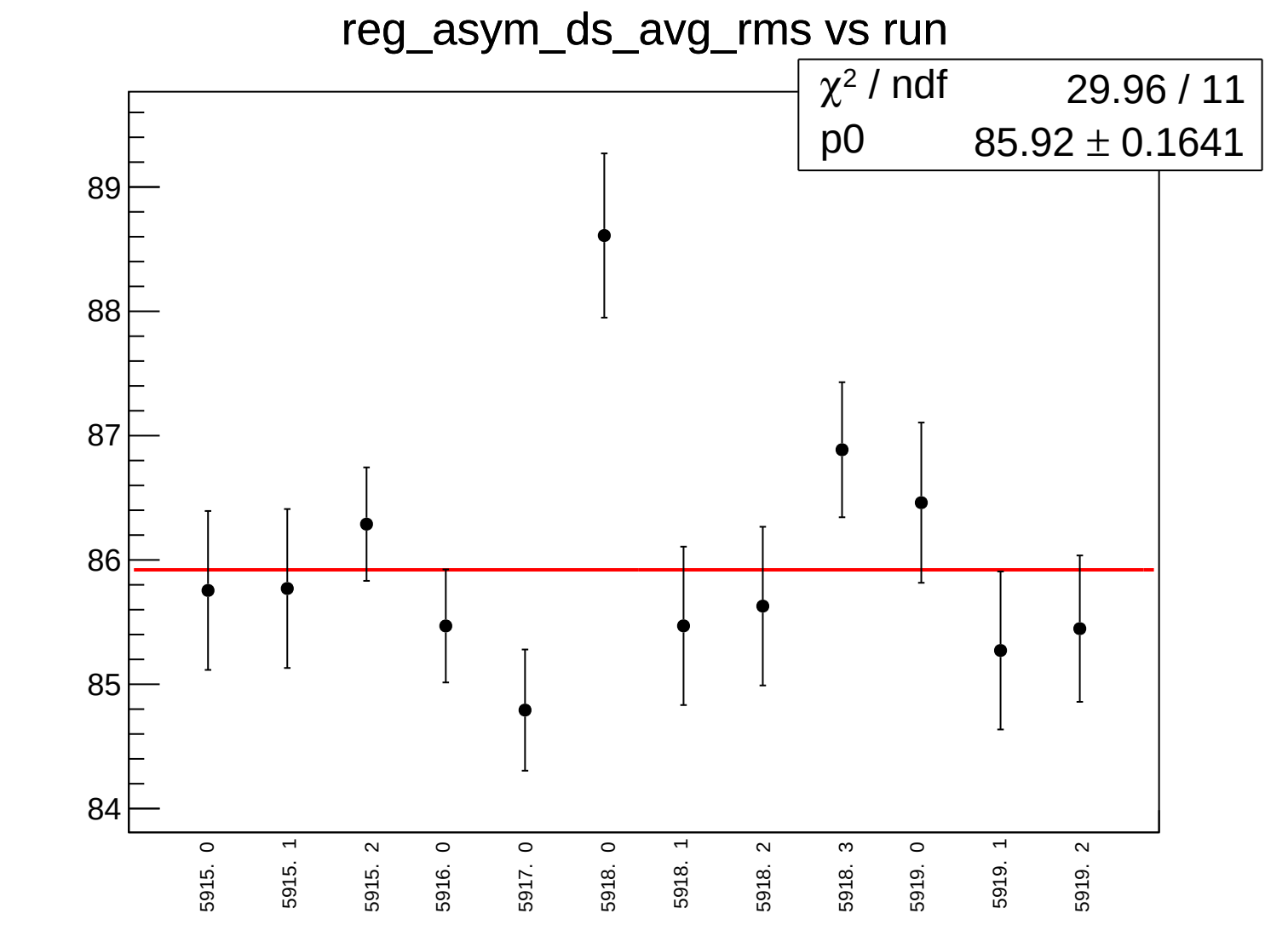

asym_us_dd_mean vs run
χ² / ndf 5.099 / 11
p0 −2631 ± 2655
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 58.66
Std Dev 55.81
0.5
0
−0.5
−1
−1.5

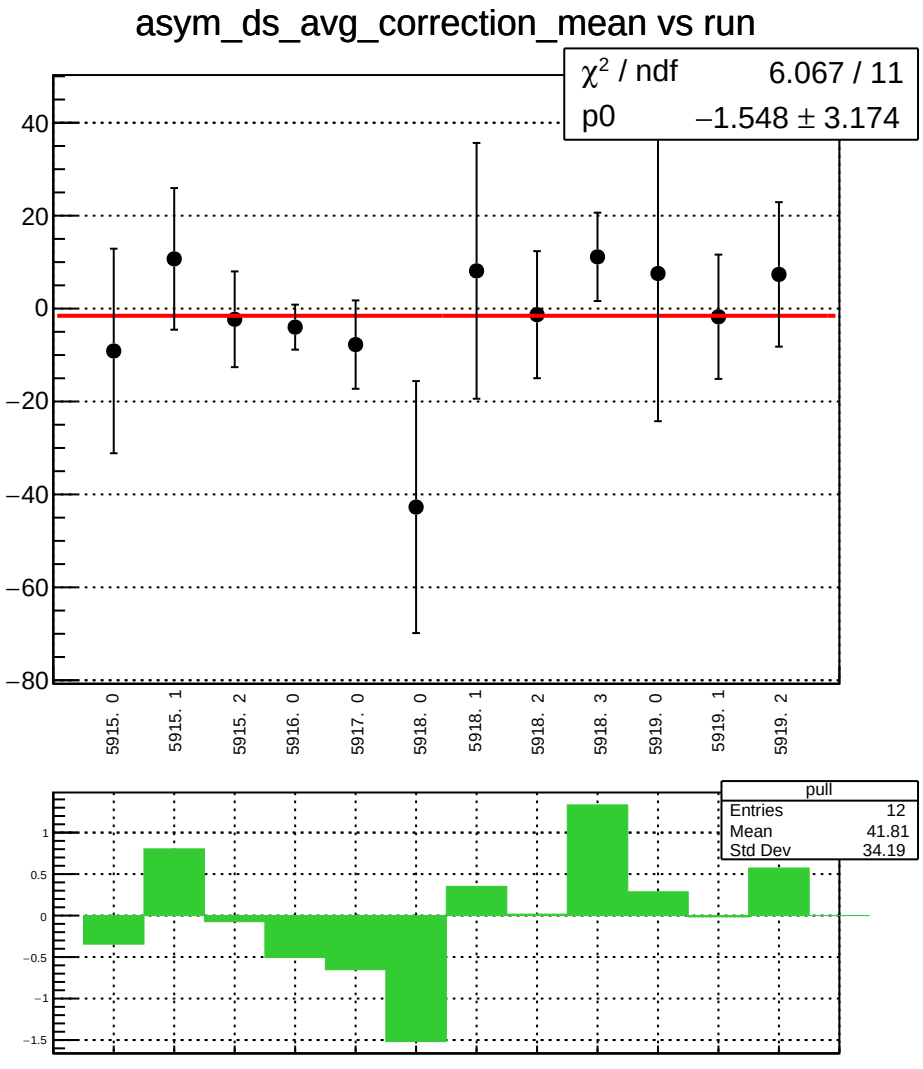

pull1D
Entries 12
Mean −0.0129
Std Dev 0.6517
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

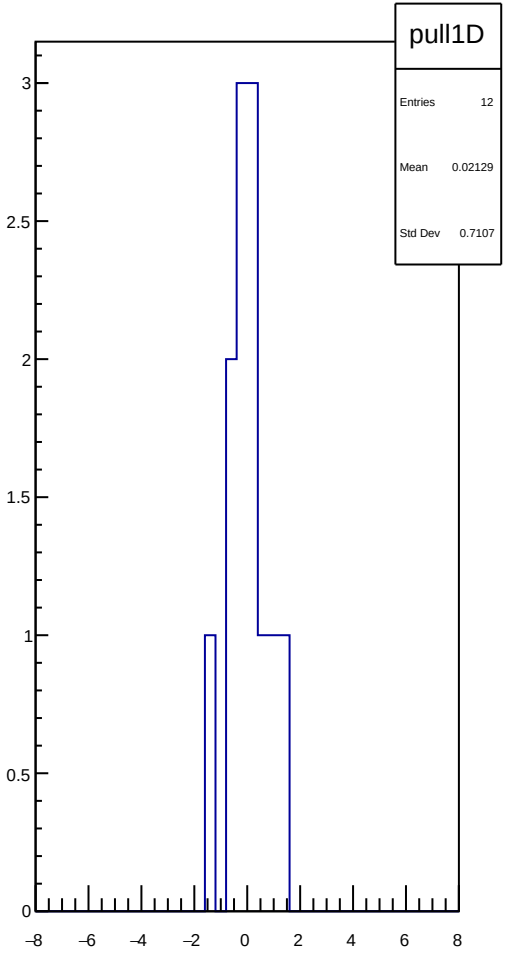

asym_us_dd_rms vs run
χ^2 / ndf 236.8 / 11
p0 982.5 ± 1.878
1040
1020
1000
980
960
940
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

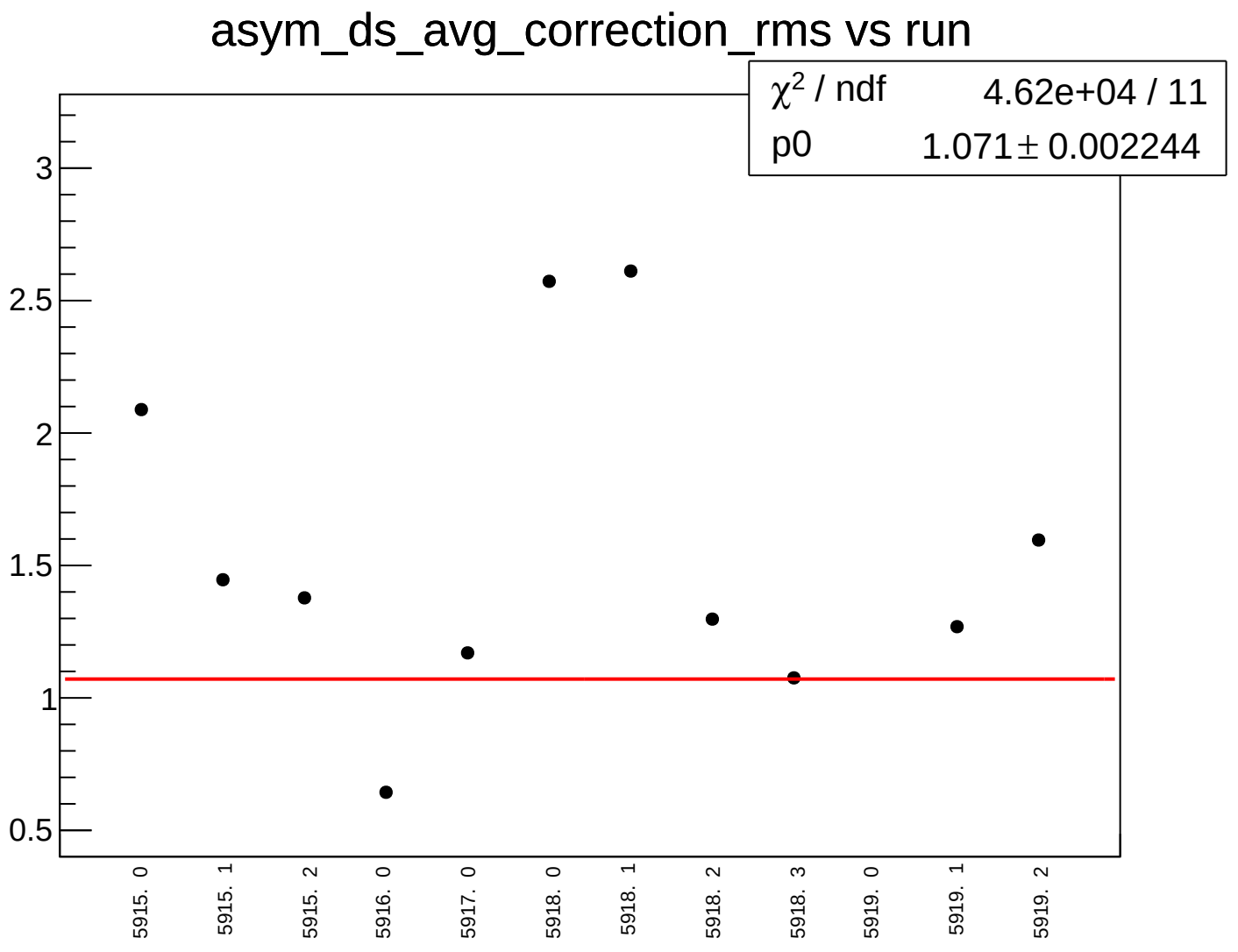

reg_asym_ds_avg_mean vs run
χ² / ndf 8.567 / 11
p0 232.4 ± 232.1
2500
2000
1500
1000
500
0
−500
−1000
−1500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 46.94
Std Dev 40.44
1.5
1
0.5
0
−0.5
−1

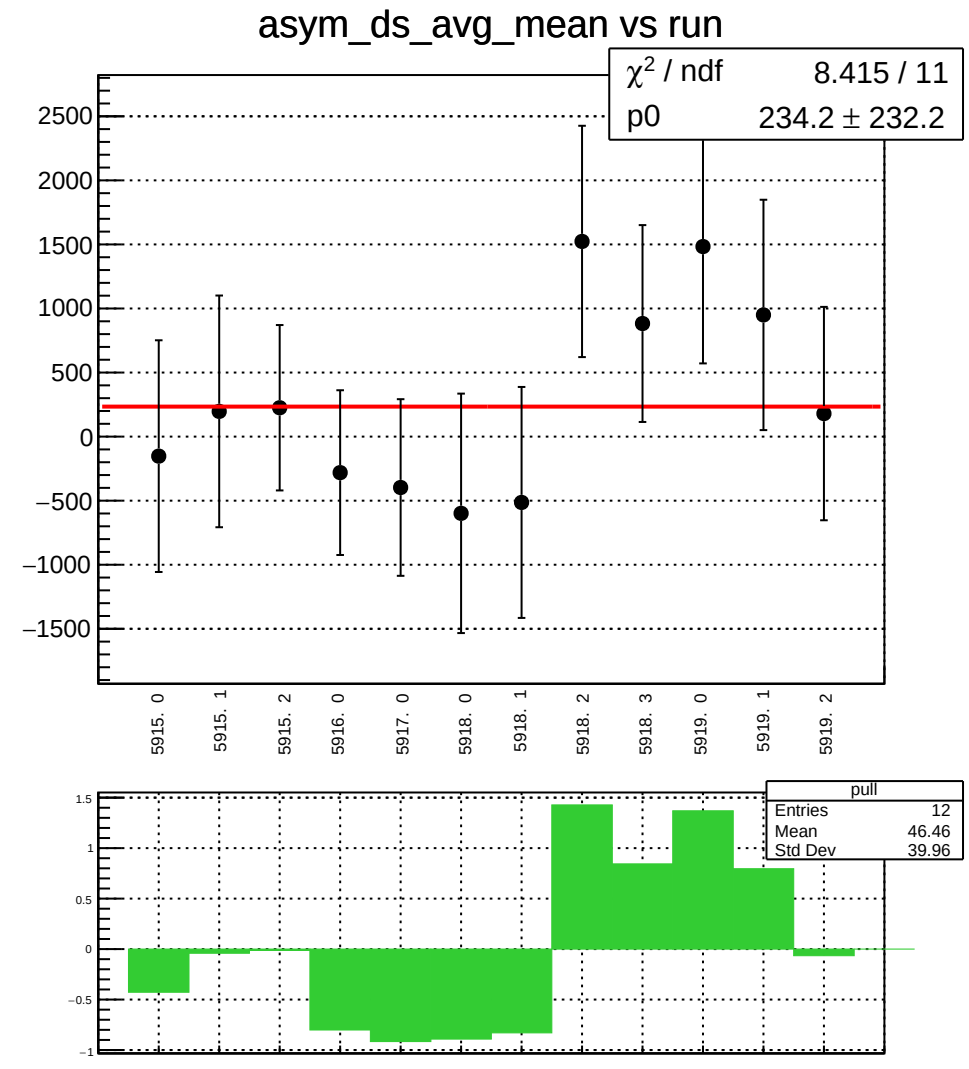

pull1D
Entries 12
Mean 0.03753
Std Dev 0.8441
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

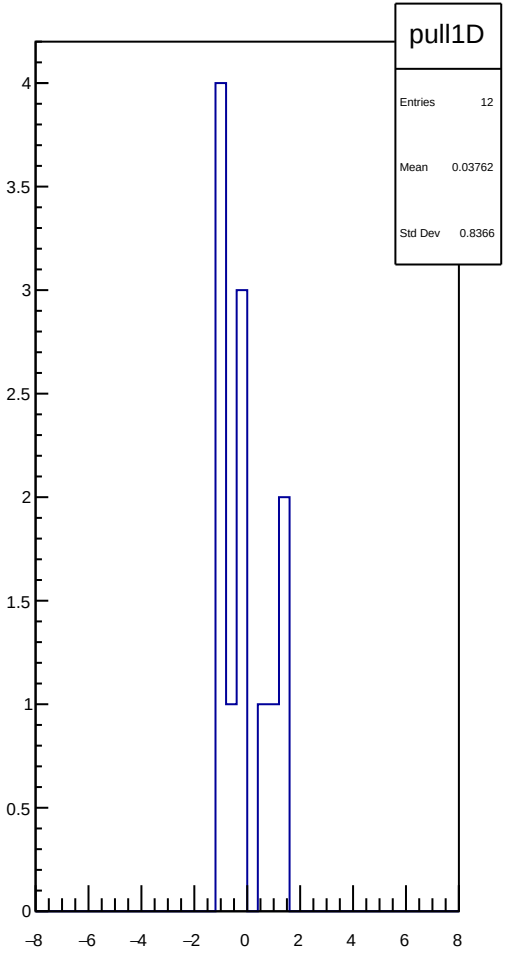

reg_asym_ds_avg_rms vs run
χ² / ndf 29.96 / 11
p0 85.92 ± 0.1641
89
88
87
86
85
84
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

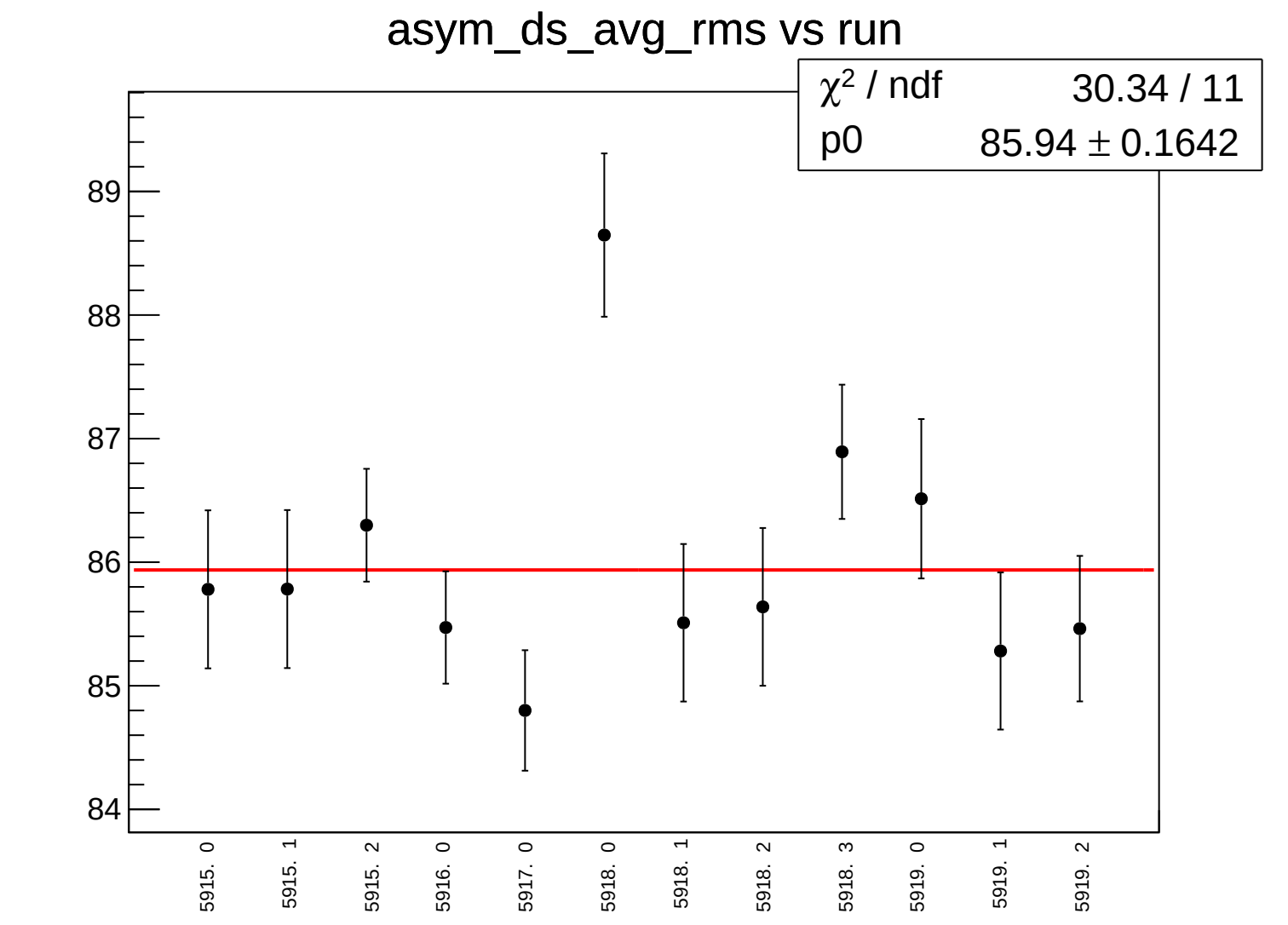

asym_ds_avg_correction_mean vs run
χ² / ndf 6.067 / 11
p0 −1.548 ± 3.174
40
20
0
−20
−40
−60
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 41.81
Std Dev 34.19
1
0.5
0
−0.5
−1
−1.5

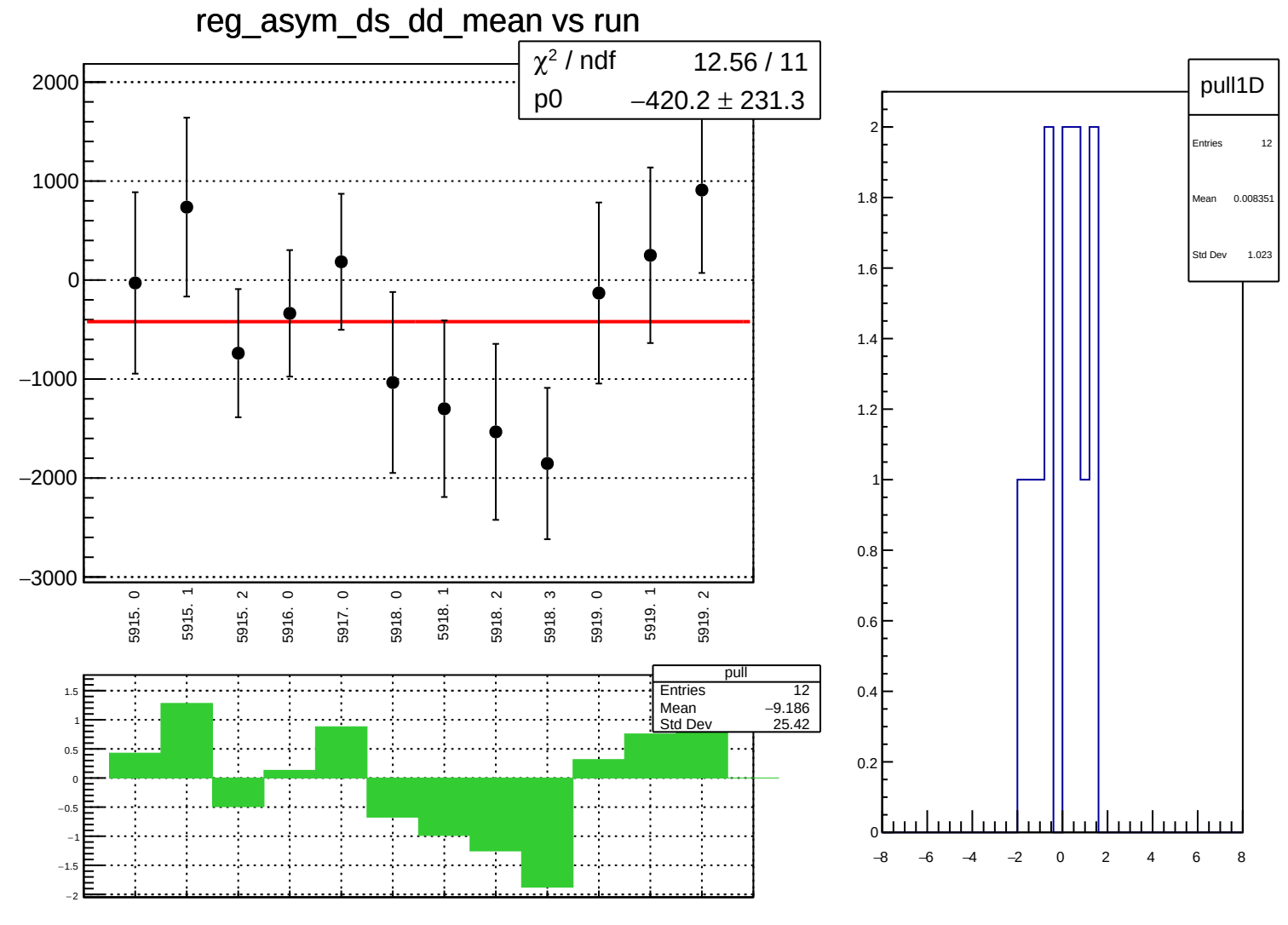

pull1D
Entries 12
Mean 0.02129
Std Dev 0.7107
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

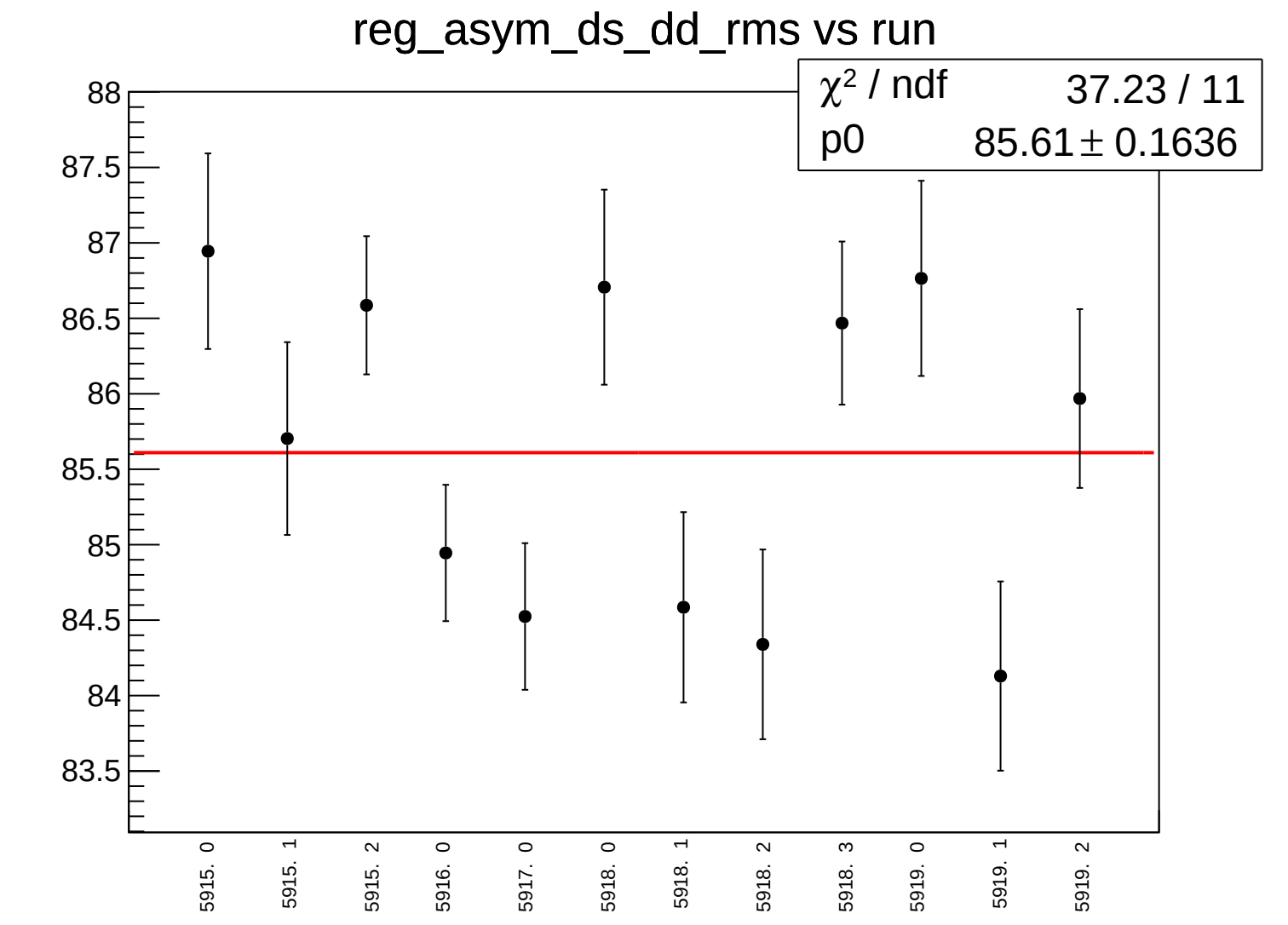

asym_ds_avg_correction_rms vs run
χ² / ndf 4.62e+04 / 11
p0 1.071 ± 0.002244
3
2.5
2
1.5
1
0.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

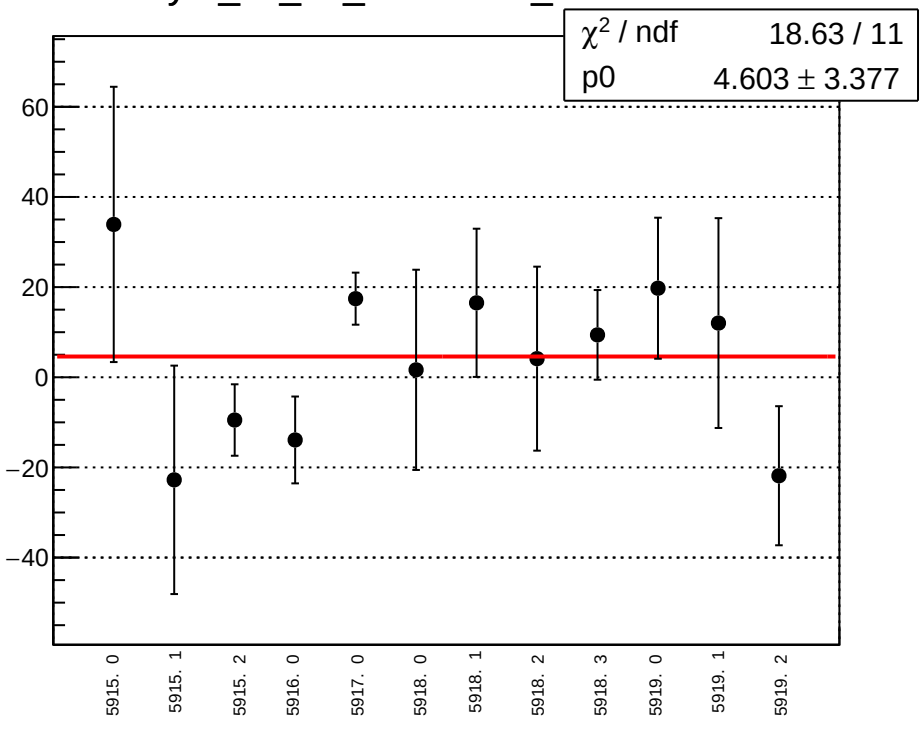

asym_ds_avg_mean vs run
χ² / ndf 8.415 / 11
p0 234.2 ± 232.2
2500
2000
1500
1000
500
0
−500
−1000
−1500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 46.46
Std Dev 39.96
1.5
1
0.5
0
−0.5
−1

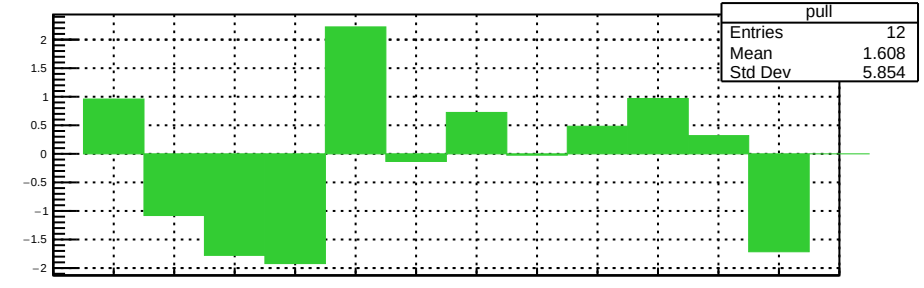

pull1D
Entries 12
Mean 0.03762
Std Dev 0.8366
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

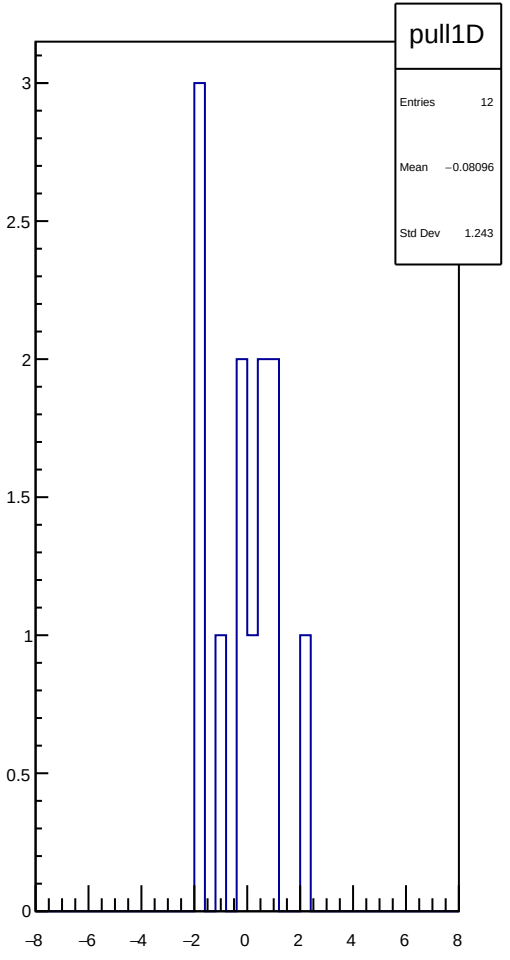

asym_ds_avg_rms vs run
χ² / ndf 30.34 / 11
p0 85.94 ± 0.1642
89
88
87
86
85
84
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

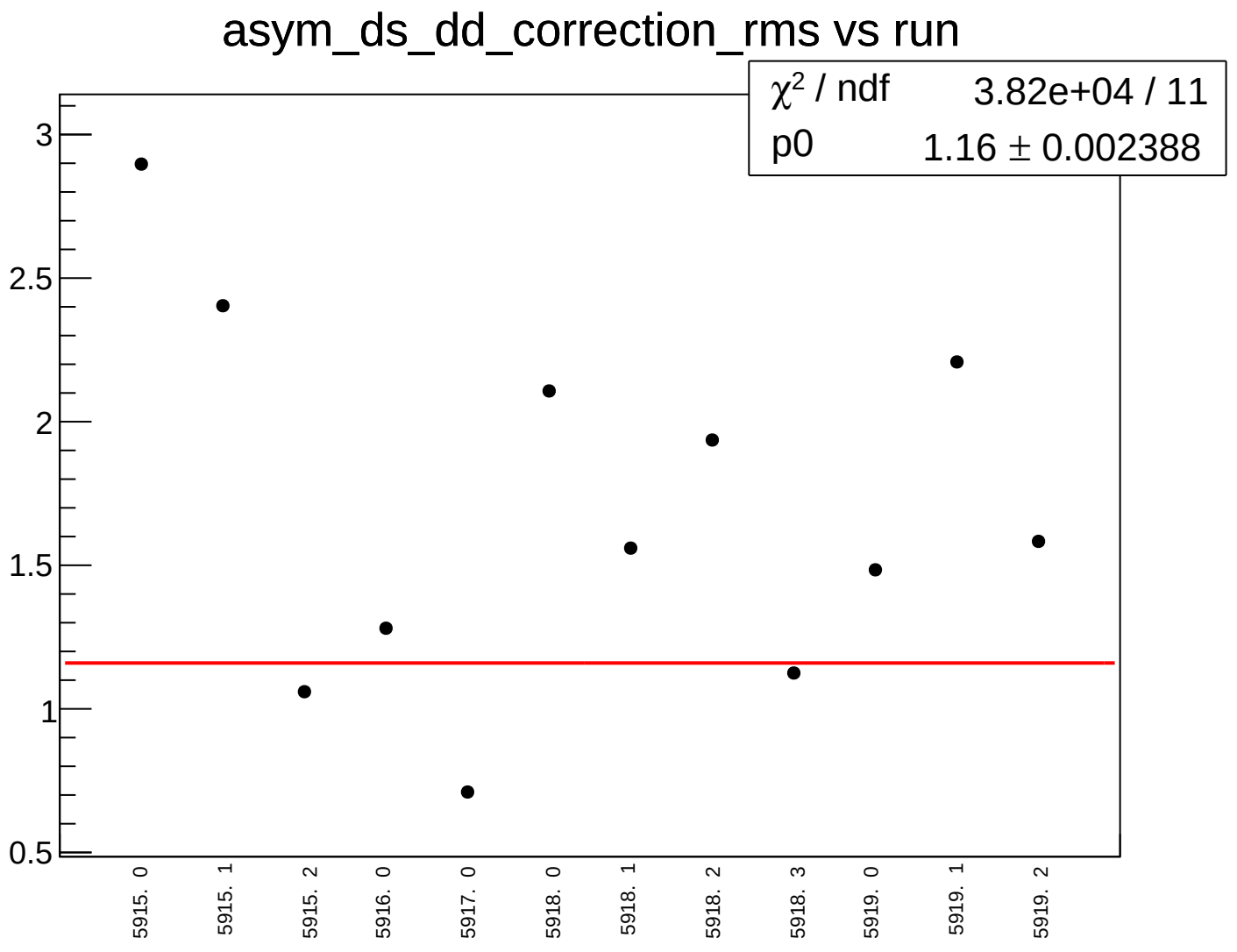

reg_asym_ds_dd_mean vs run
χ² / ndf 12.56 / 11
p0 −420.2 ± 231.3
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −9.186
Std Dev 25.42
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.008351
Std Dev 1.023
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

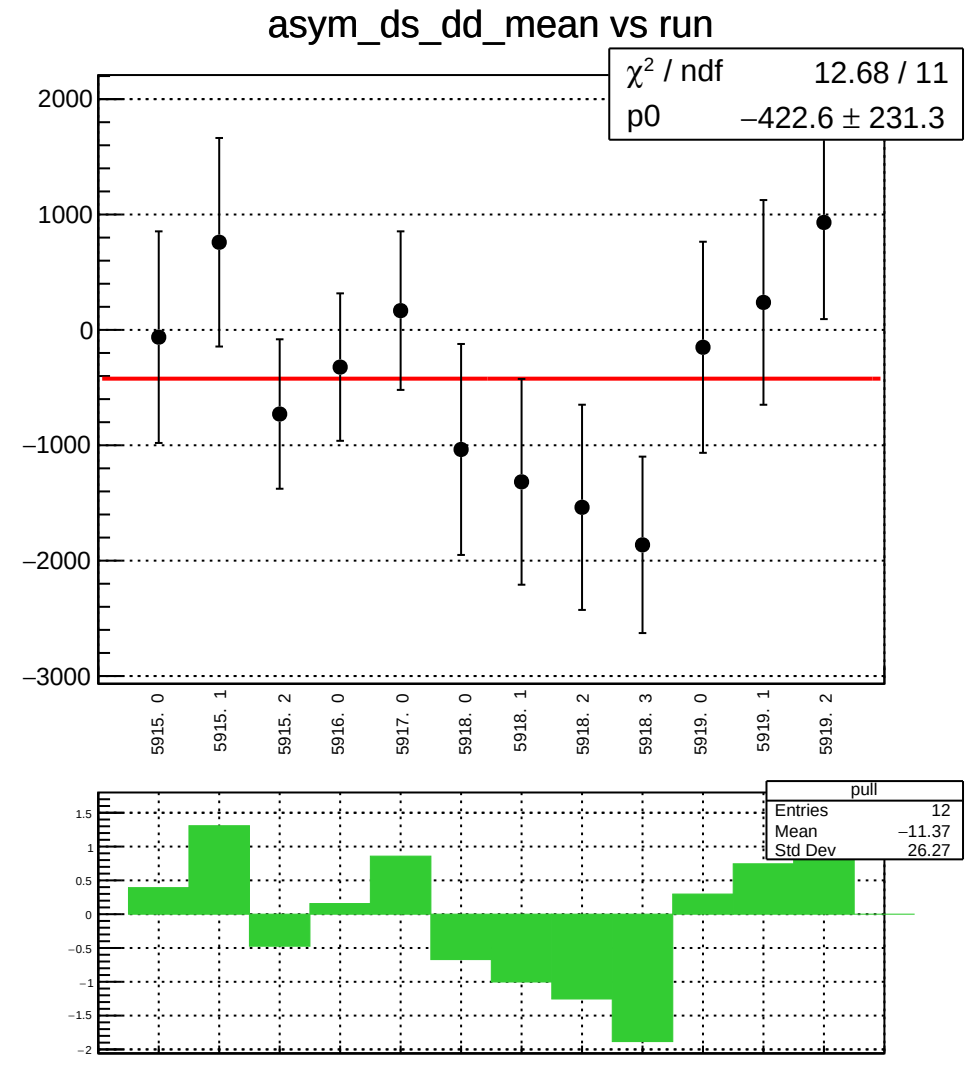

reg_asym_ds_dd_rms vs run
χ² / ndf 37.23 / 11
p0 85.61 ± 0.1636
88
87.5
87
86.5
86
85.5
85
84.5
84
83.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

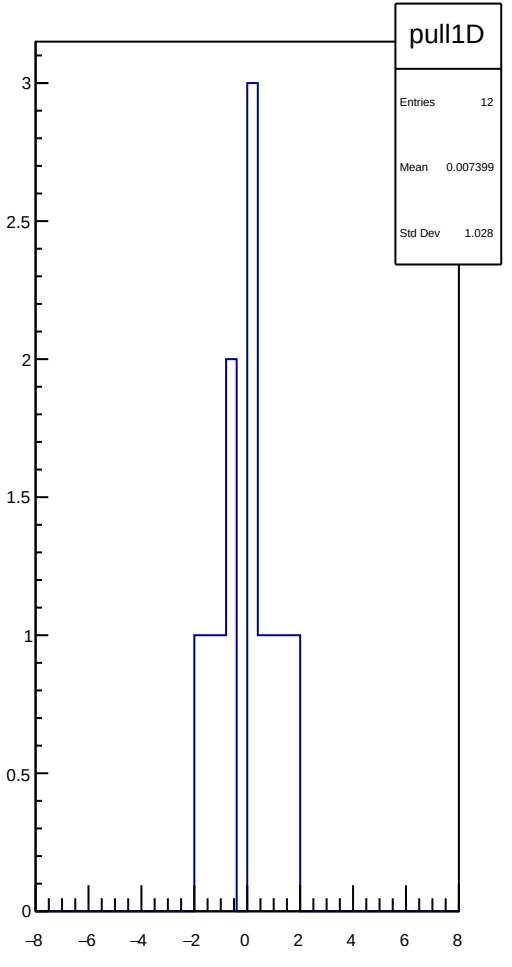

asym_ds_dd_correction_mean vs run
χ² / ndf 18.63 / 11
p0 4.603 ± 3.377
60
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

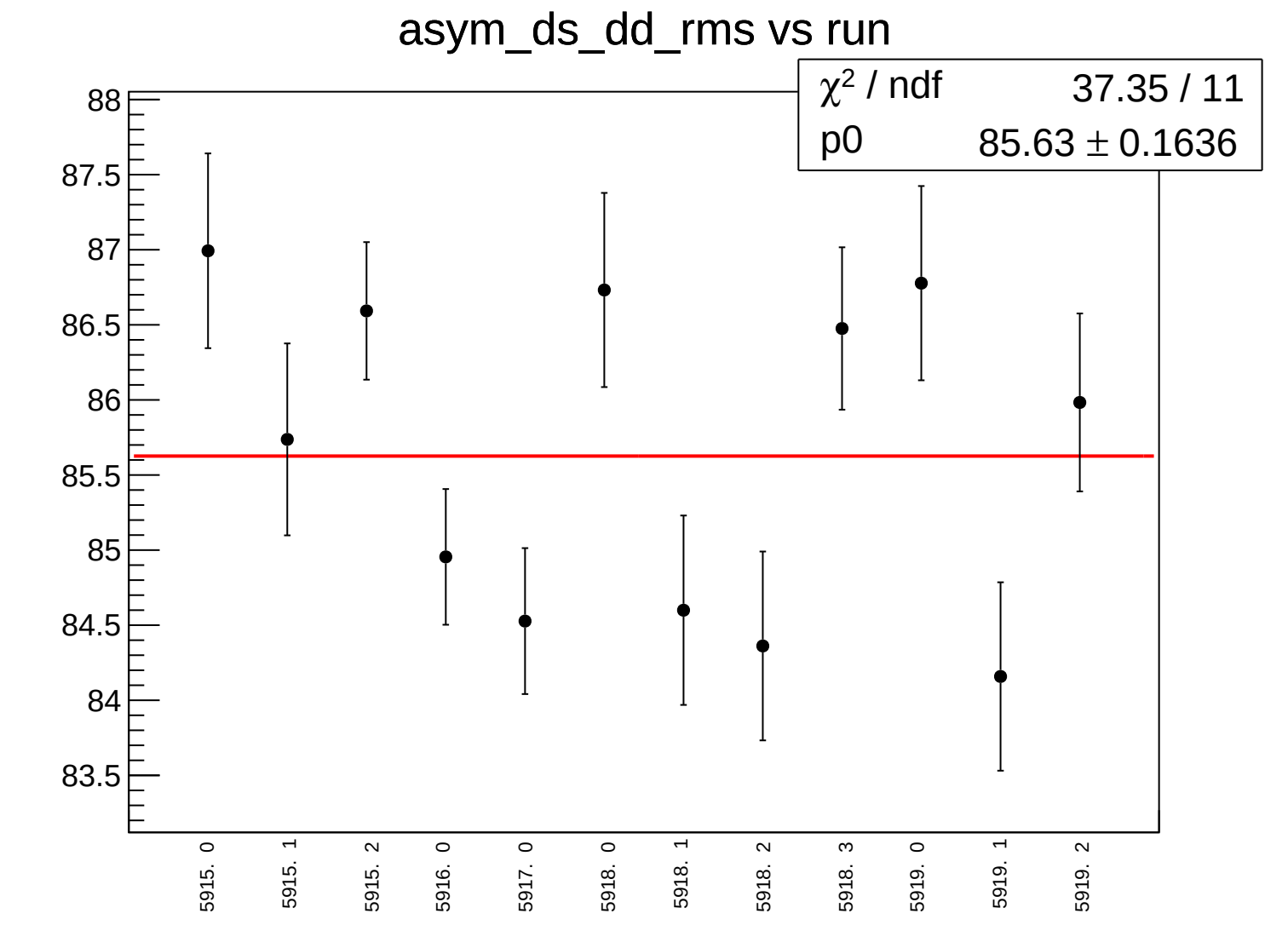

pull
Entries 12
Mean 1.608
Std Dev 5.854
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

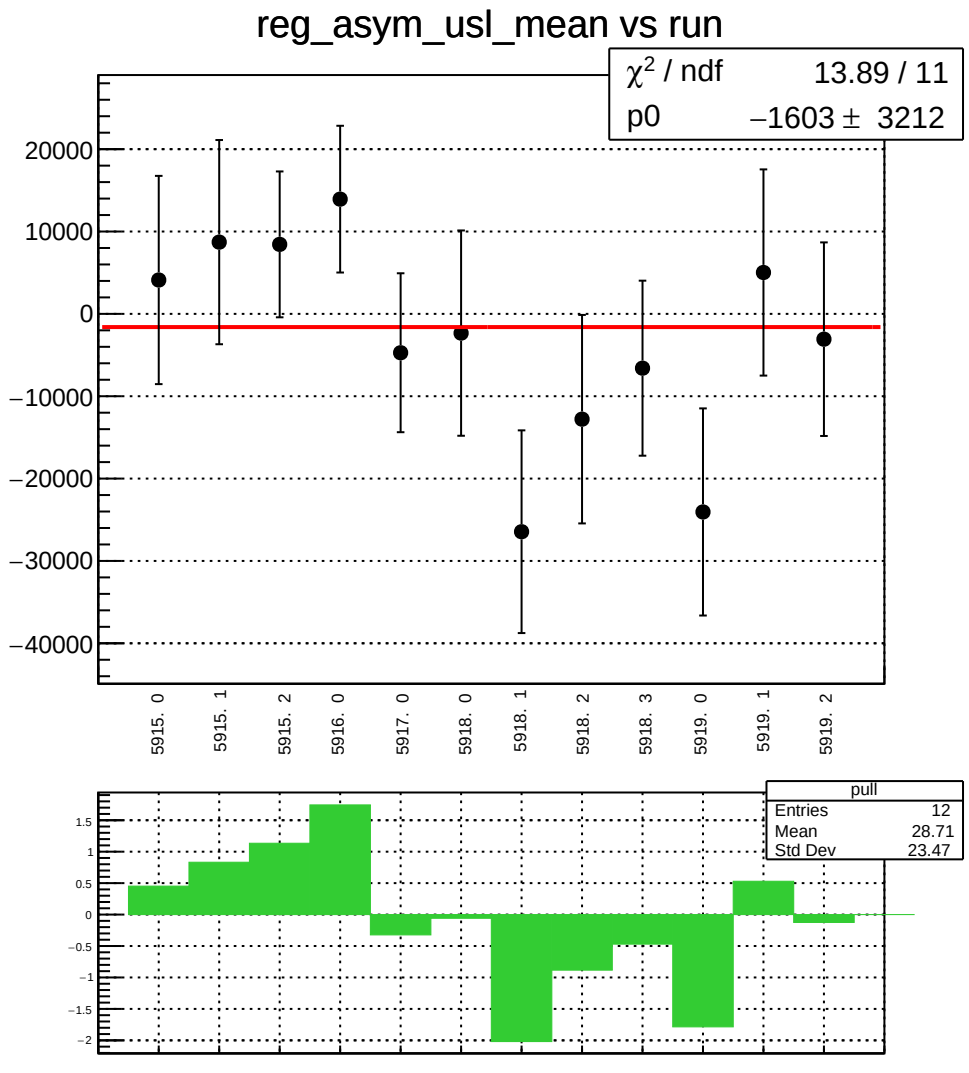

pull1D
Entries 12
Mean −0.08096
Std Dev 1.243
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

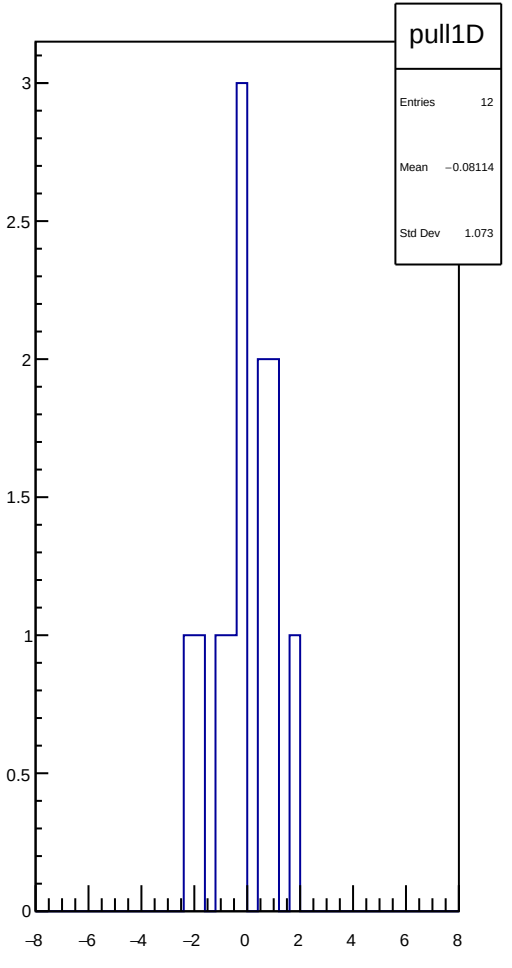

asym_ds_dd_correction_rms vs run
χ² / ndf 3.82e+04 / 11
p0 1.16 ± 0.002388
3
2.5
2
1.5
1
0.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

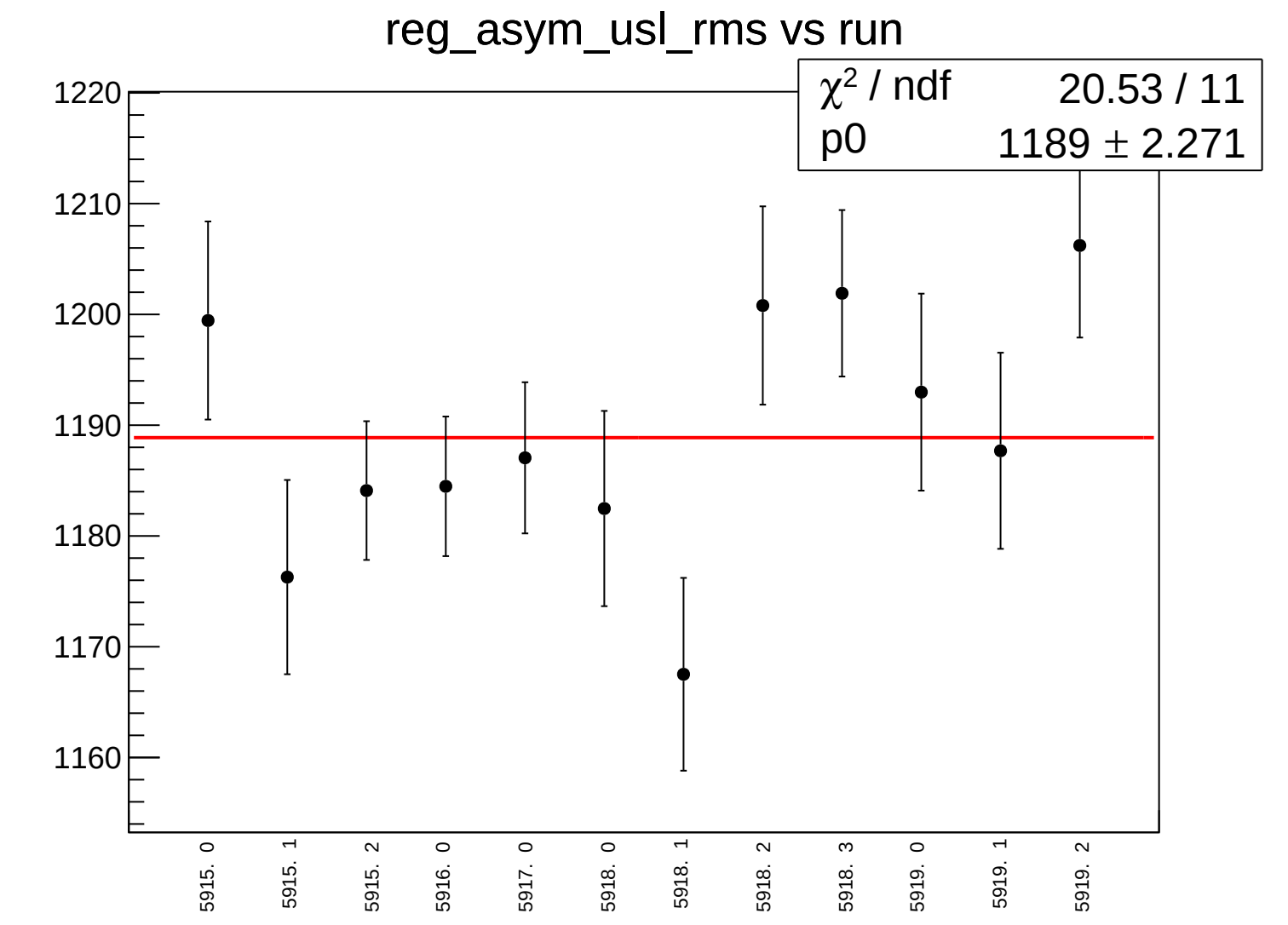

asym_ds_dd_mean vs run
χ² / ndf 12.68 / 11
p0 −422.6 ± 231.3
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −11.37
Std Dev 26.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

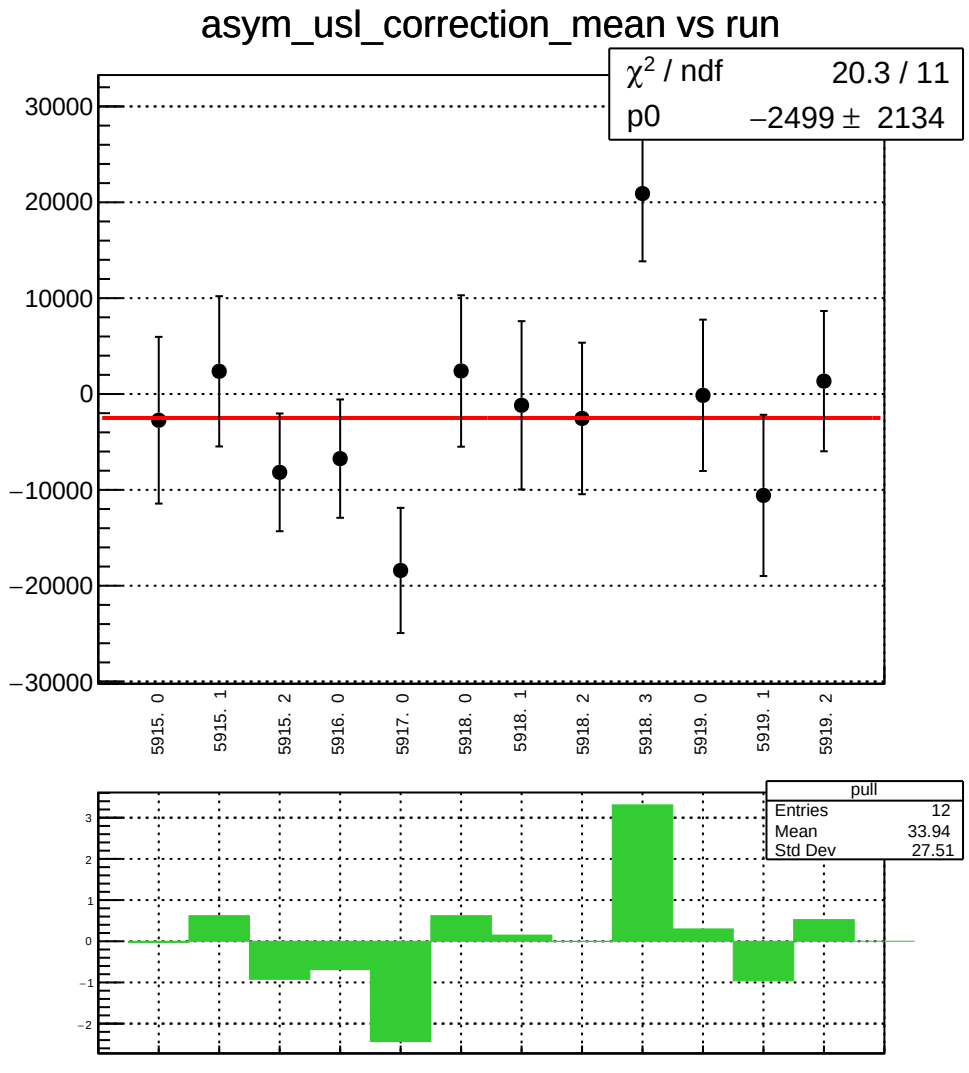

pull1D
Entries 12
Mean 0.007399
Std Dev 1.028
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

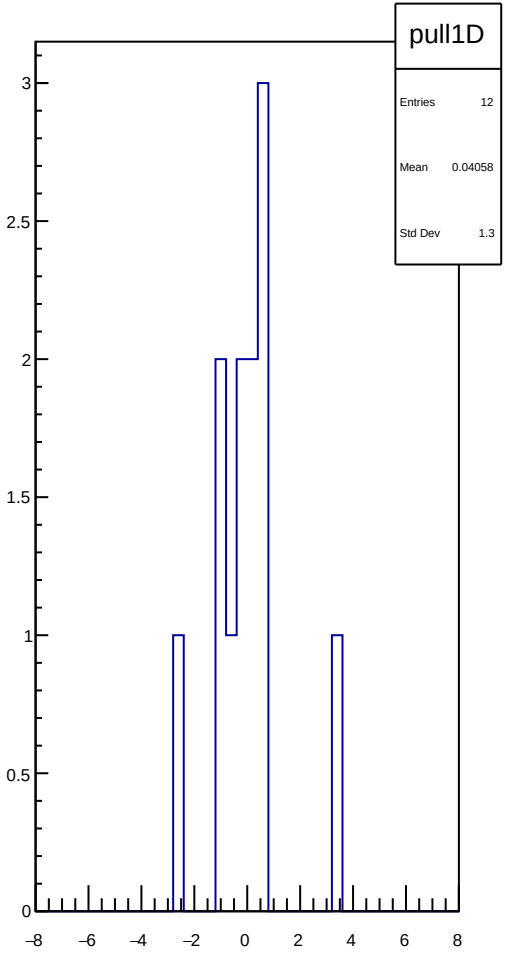

asym_ds_dd_rms vs run
χ^2 / ndf 37.35 / 11
p0 85.63 ± 0.1636
88
87.5
87
86.5
86
85.5
85
84.5
84
83.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

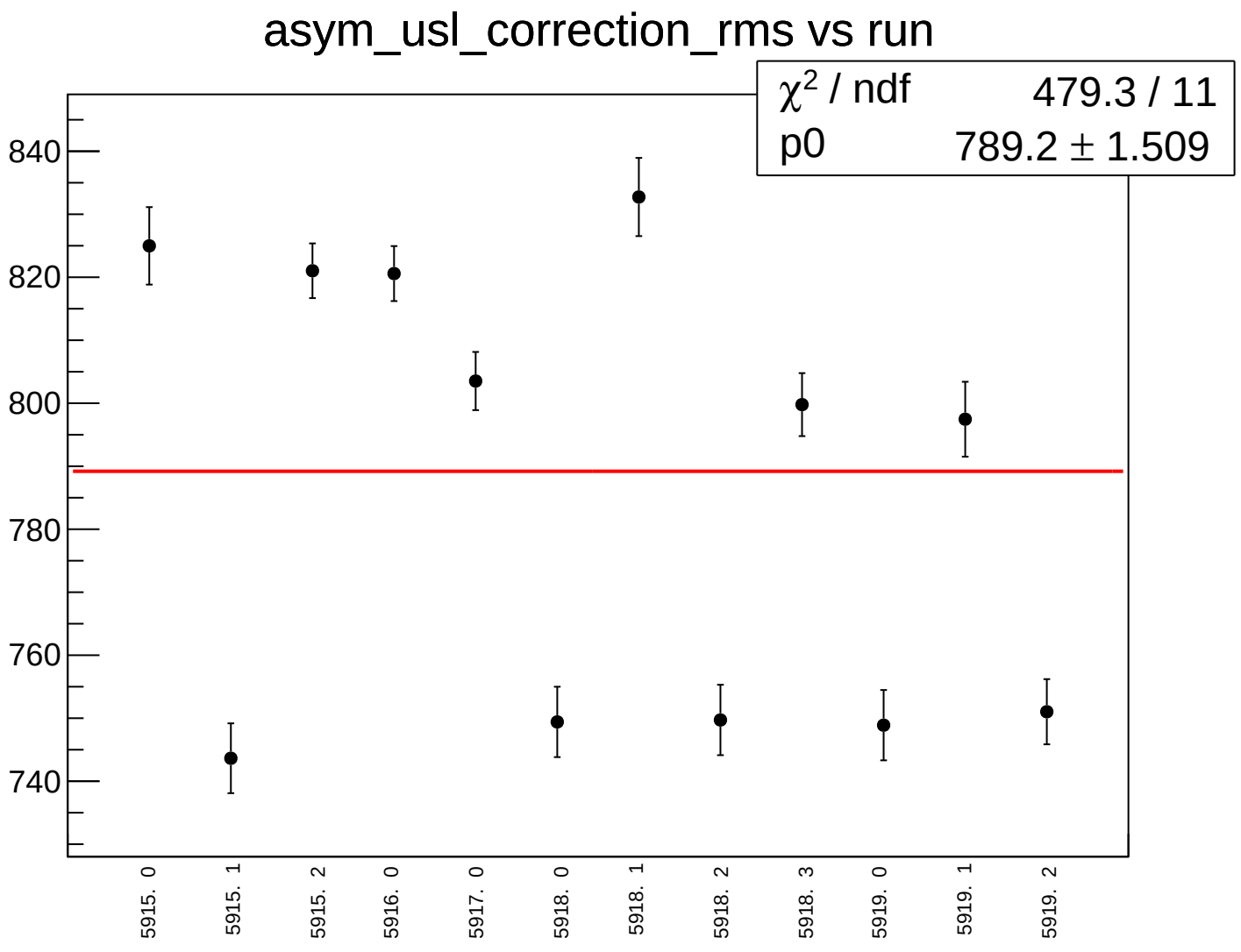

reg_asym_usl_mean vs run
χ² / ndf 13.89 / 11
p0 −1603 ± 3212
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.71
Std Dev 23.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2

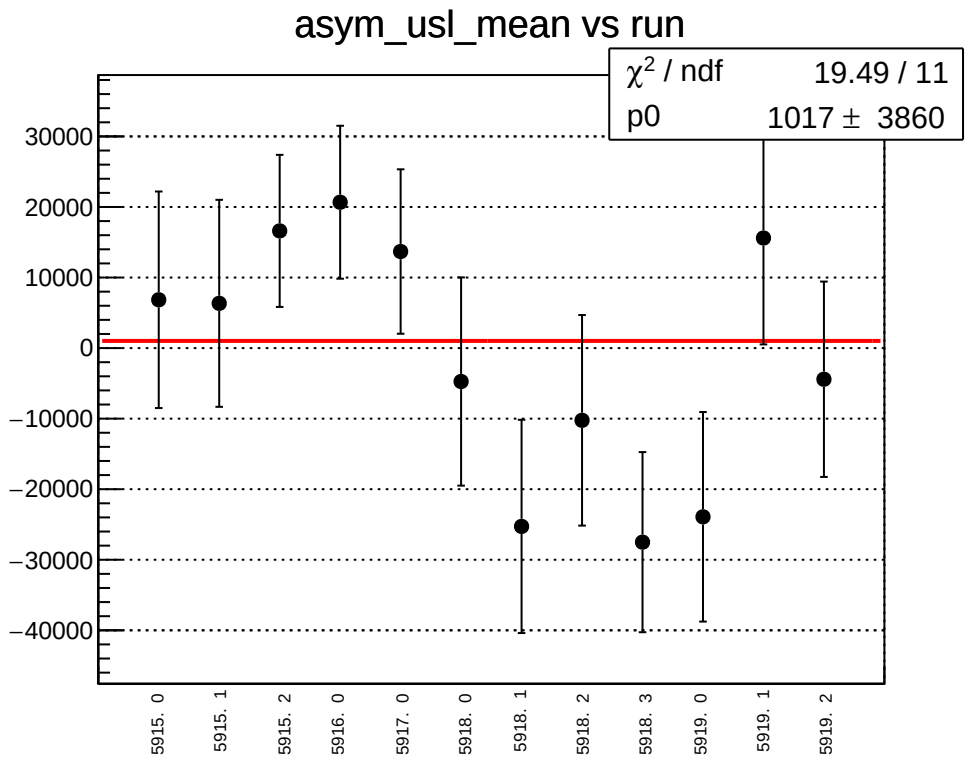

pull1D
Entries 12
Mean −0.08114
Std Dev 1.073
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

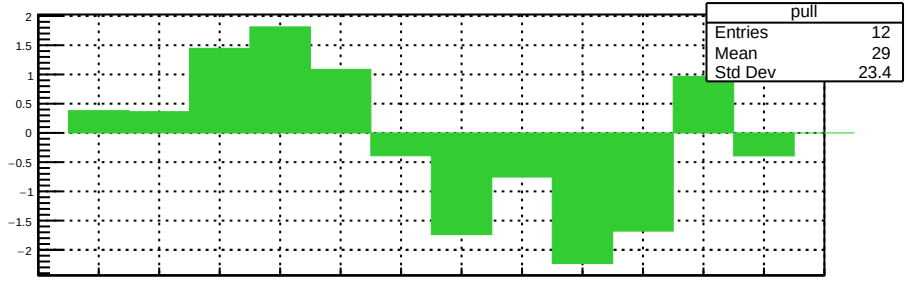

reg_asym_usl_rms vs run
χ² / ndf 20.53 / 11
p0 1189 ± 2.271
1220
1210
1200
1190
1180
1170
1160
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

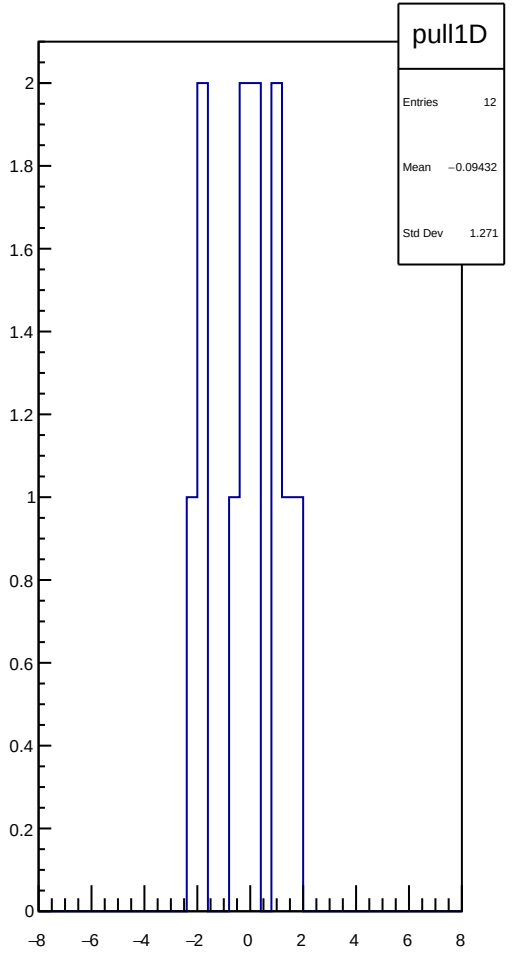

asym_usl_correction_mean vs run
χ² / ndf 20.3 / 11
p0 −2499 ± 2134
30000
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 33.94
Std Dev 27.51
3
2
1
0
−1
−2

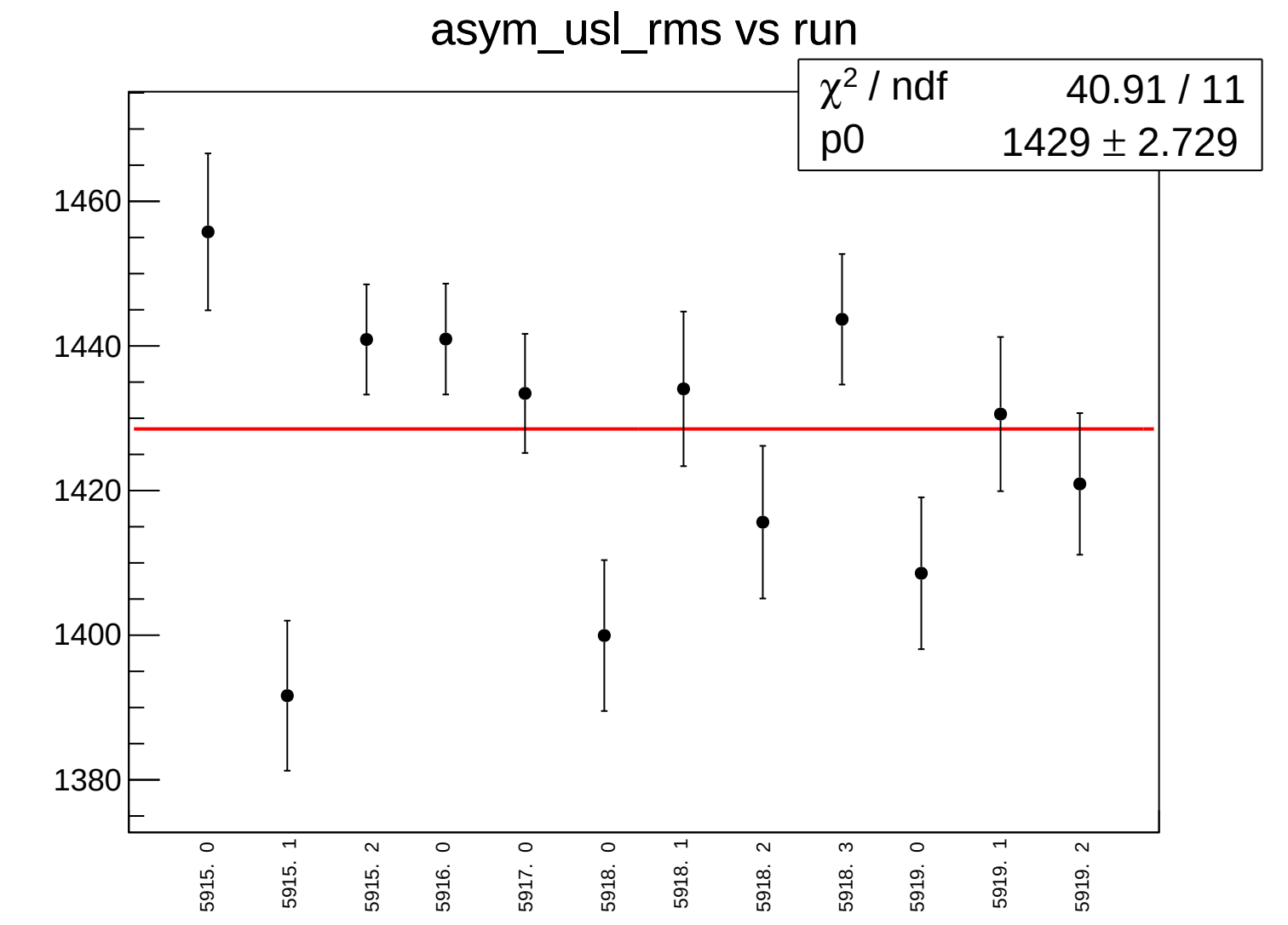

pull1D
Entries 12
Mean 0.04058
Std Dev 1.3
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

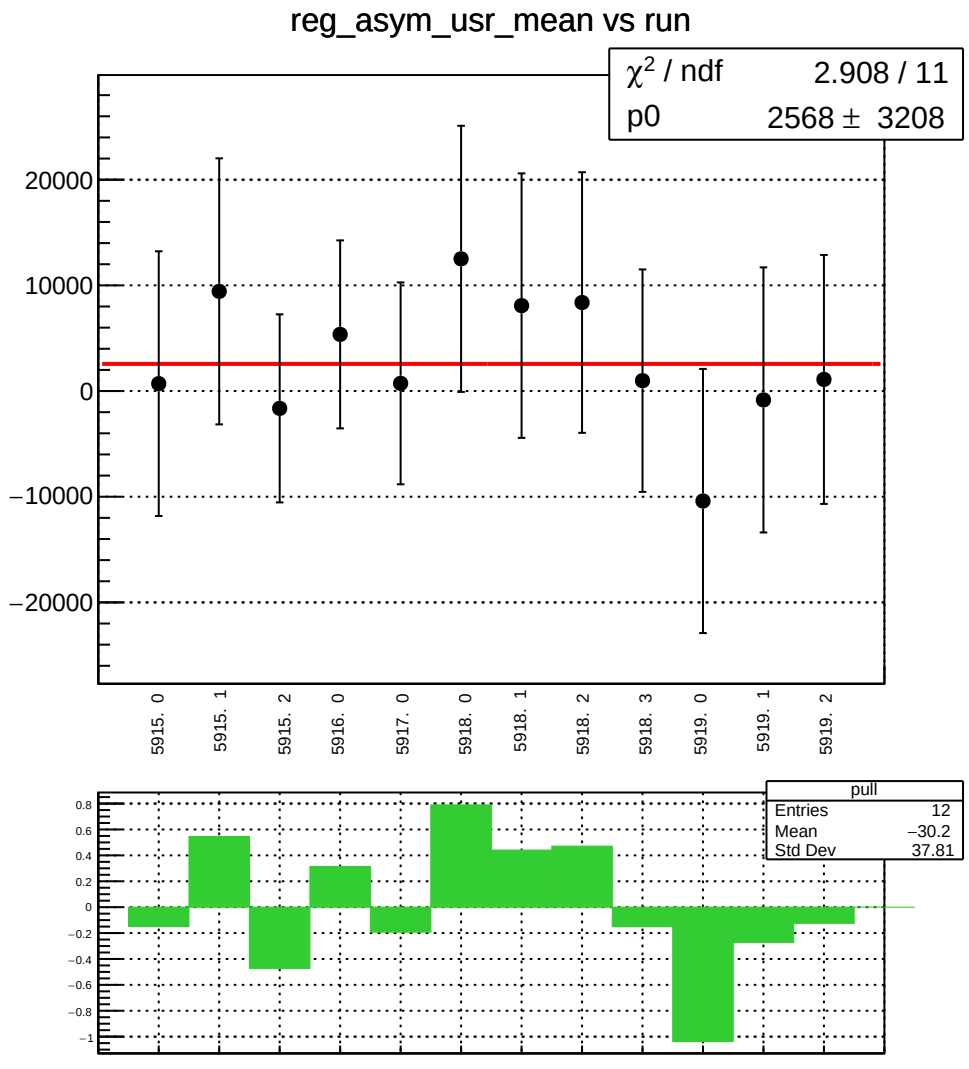

asym_usl_correction_rms vs run
χ² / ndf 479.3 / 11
p0 789.2 ± 1.509
840
820
800
780
760
740
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

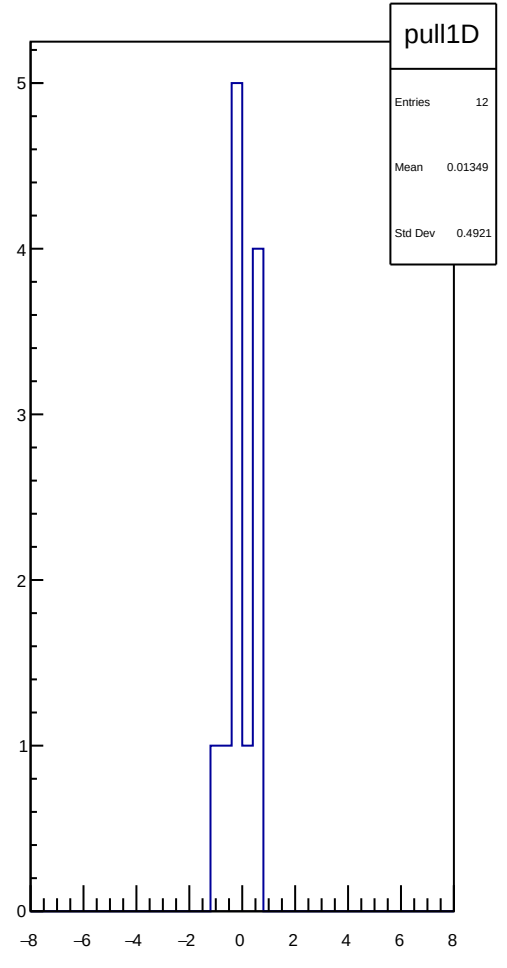

asym_usl_mean vs run
χ² / ndf 19.49 / 11
p0 1017 ± 3860
30000
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

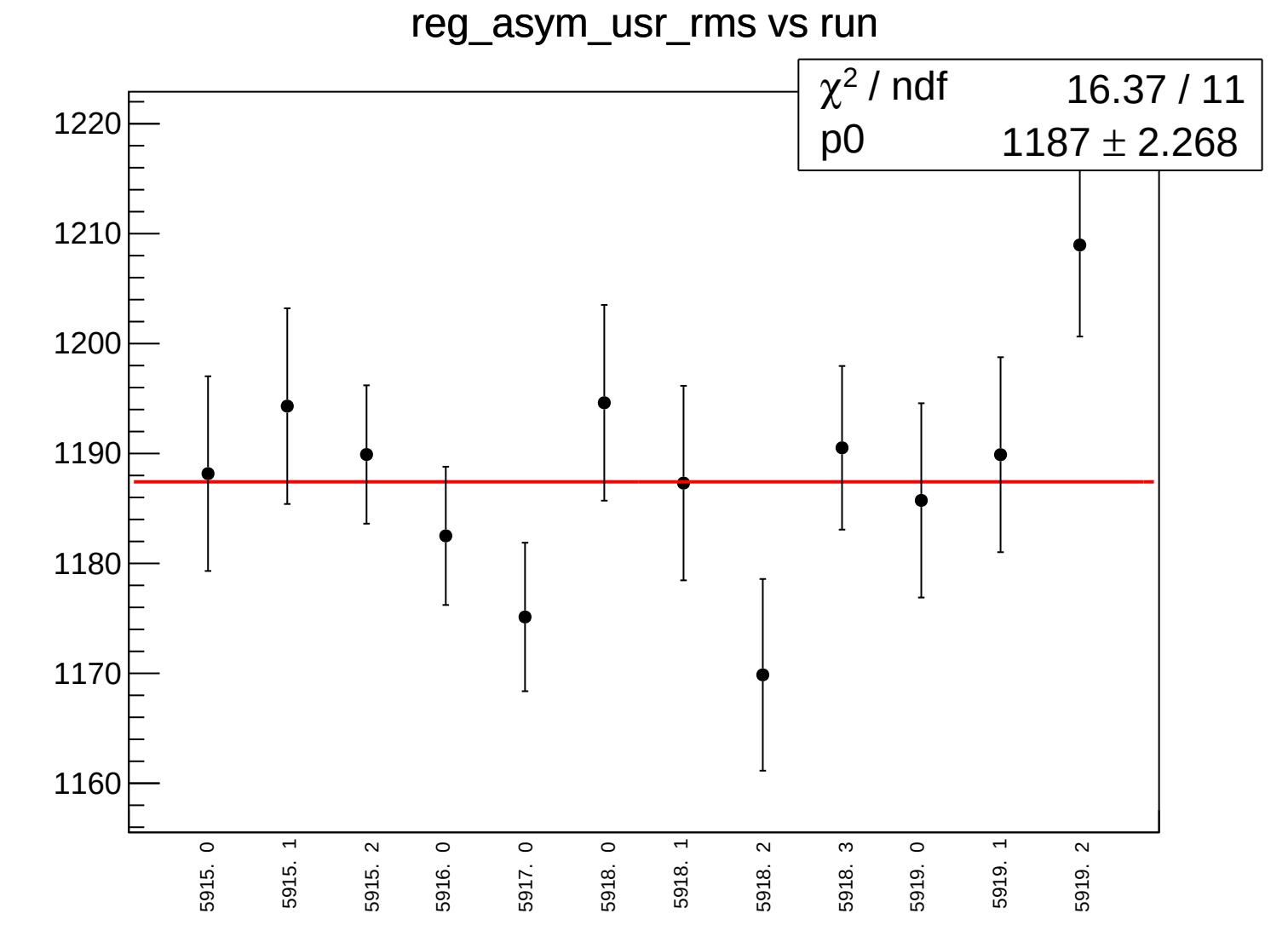

pull
Entries 12
Mean 29
Std Dev 23.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

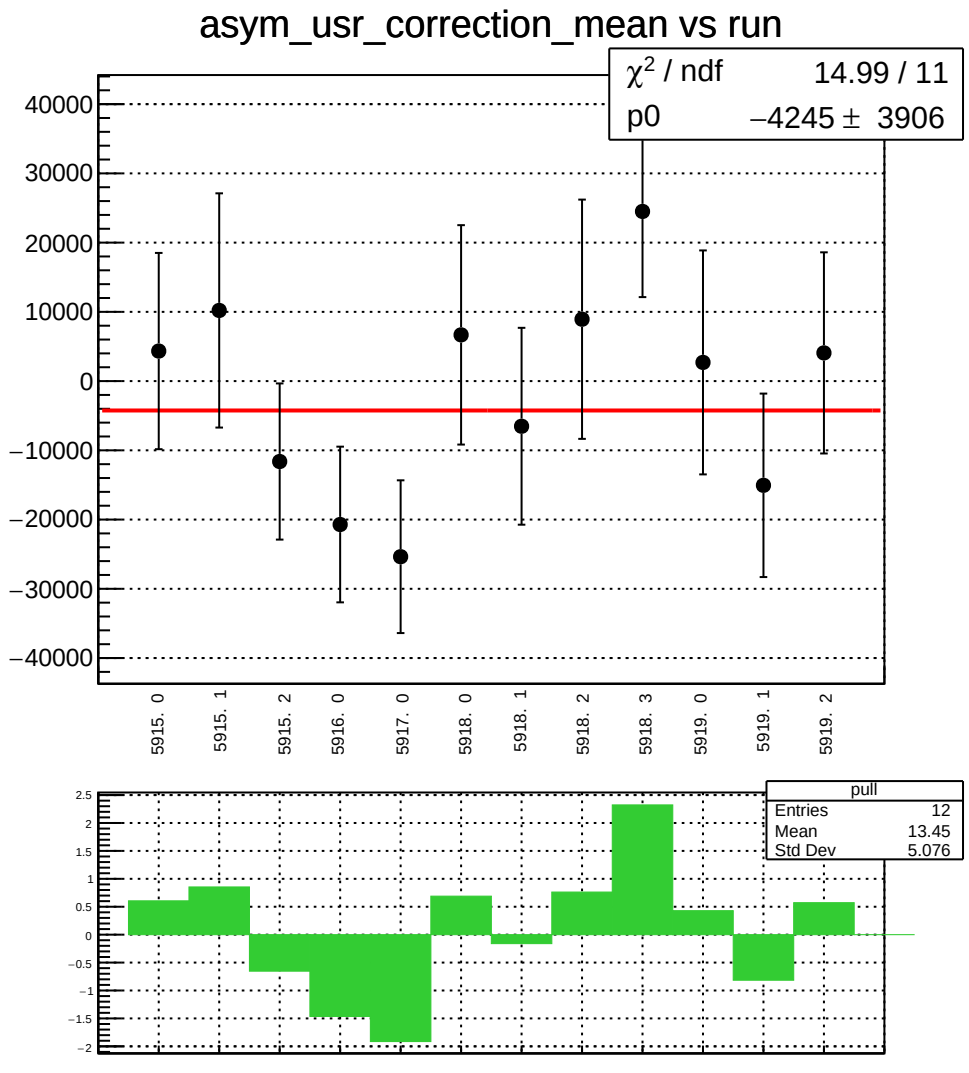

pull1D
Entries 12
Mean −0.09432
Std Dev 1.271
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

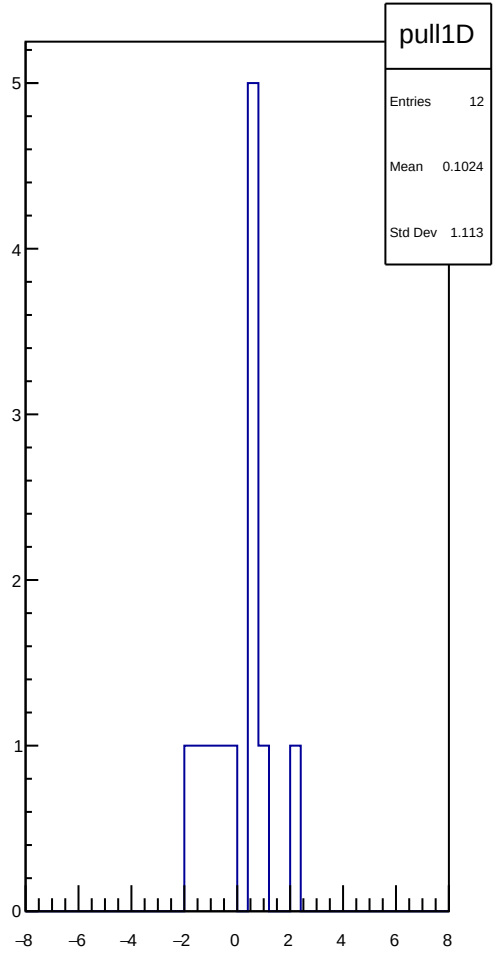

asym_usl_rms vs run
χ² / ndf 40.91 / 11
p0 1429 ± 2.729
1460
1440
1420
1400
1380
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

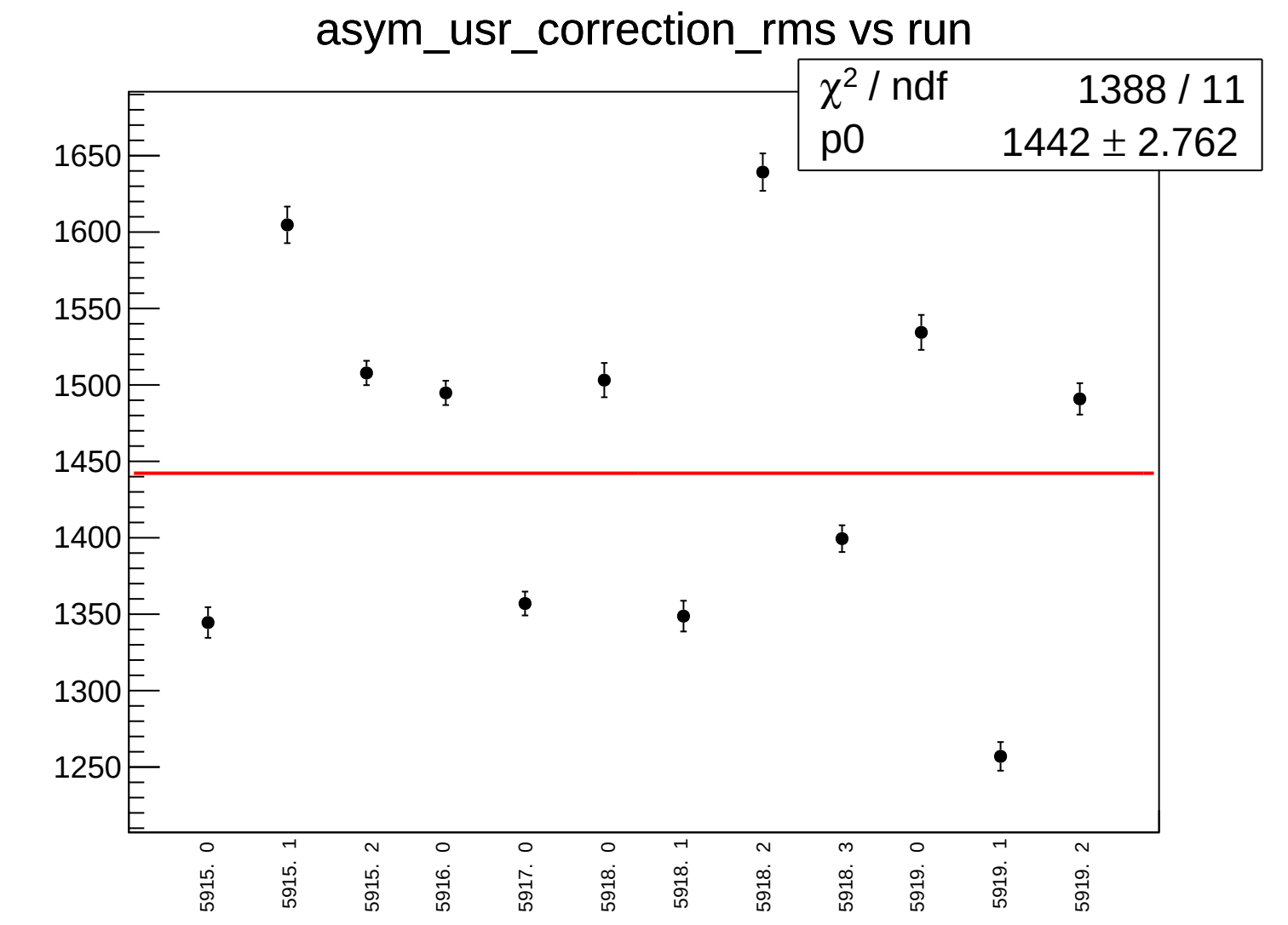

reg_asym_usr_mean vs run
χ² / ndf 2.908 / 11
p0 2568 ± 3208
20000
10000
0
−10000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −30.2
Std Dev 37.81
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

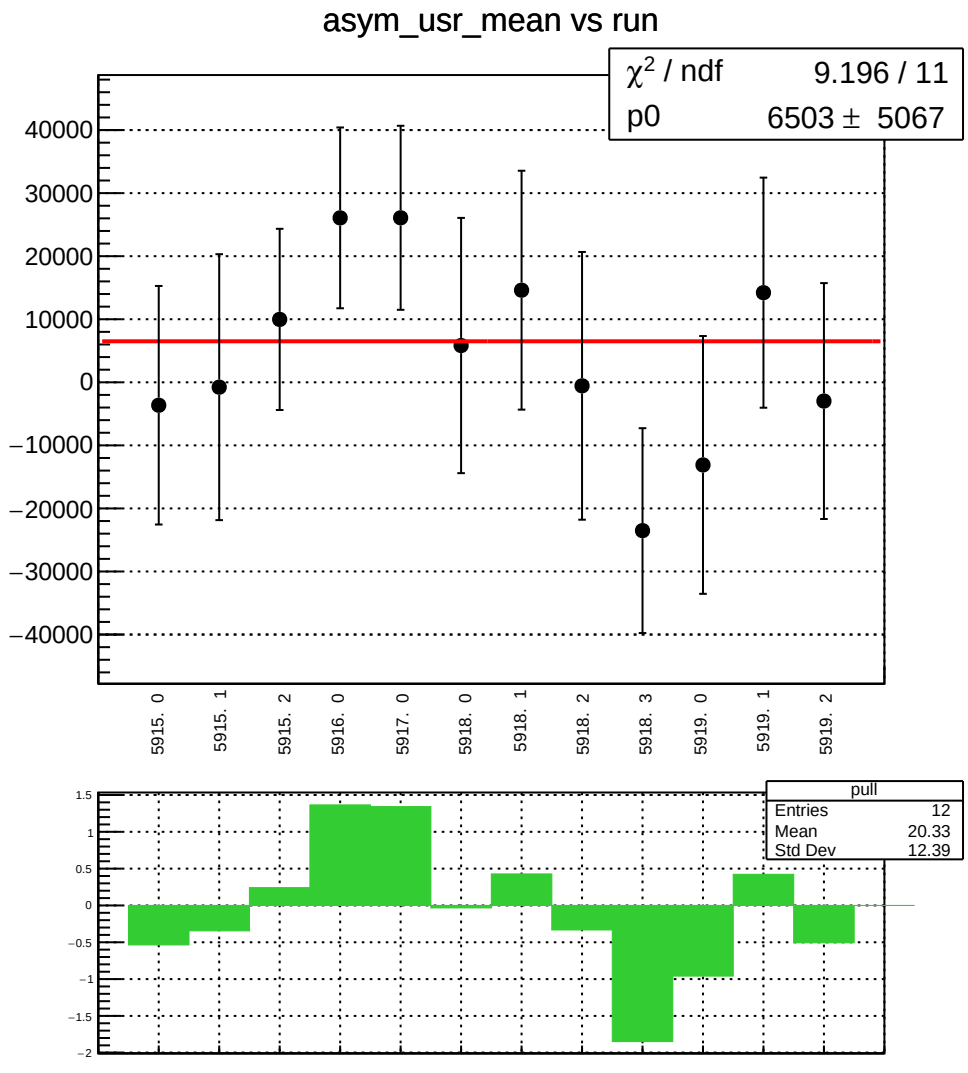

pull1D
Entries 12
Mean 0.01349
Std Dev 0.4921
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

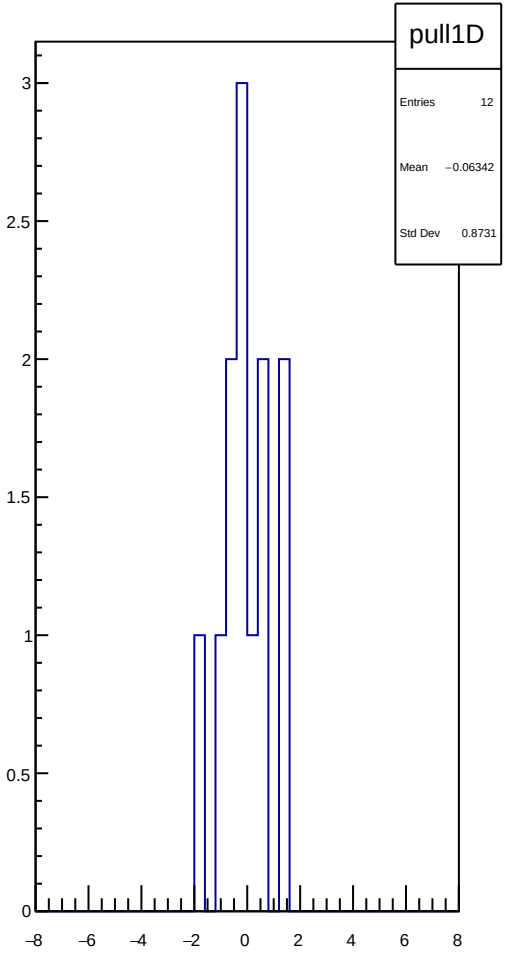

reg_asym_usr_rms vs run
χ² / ndf 16.37 / 11
p0 1187 ± 2.268
1220
1210
1200
1190
1180
1170
1160
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

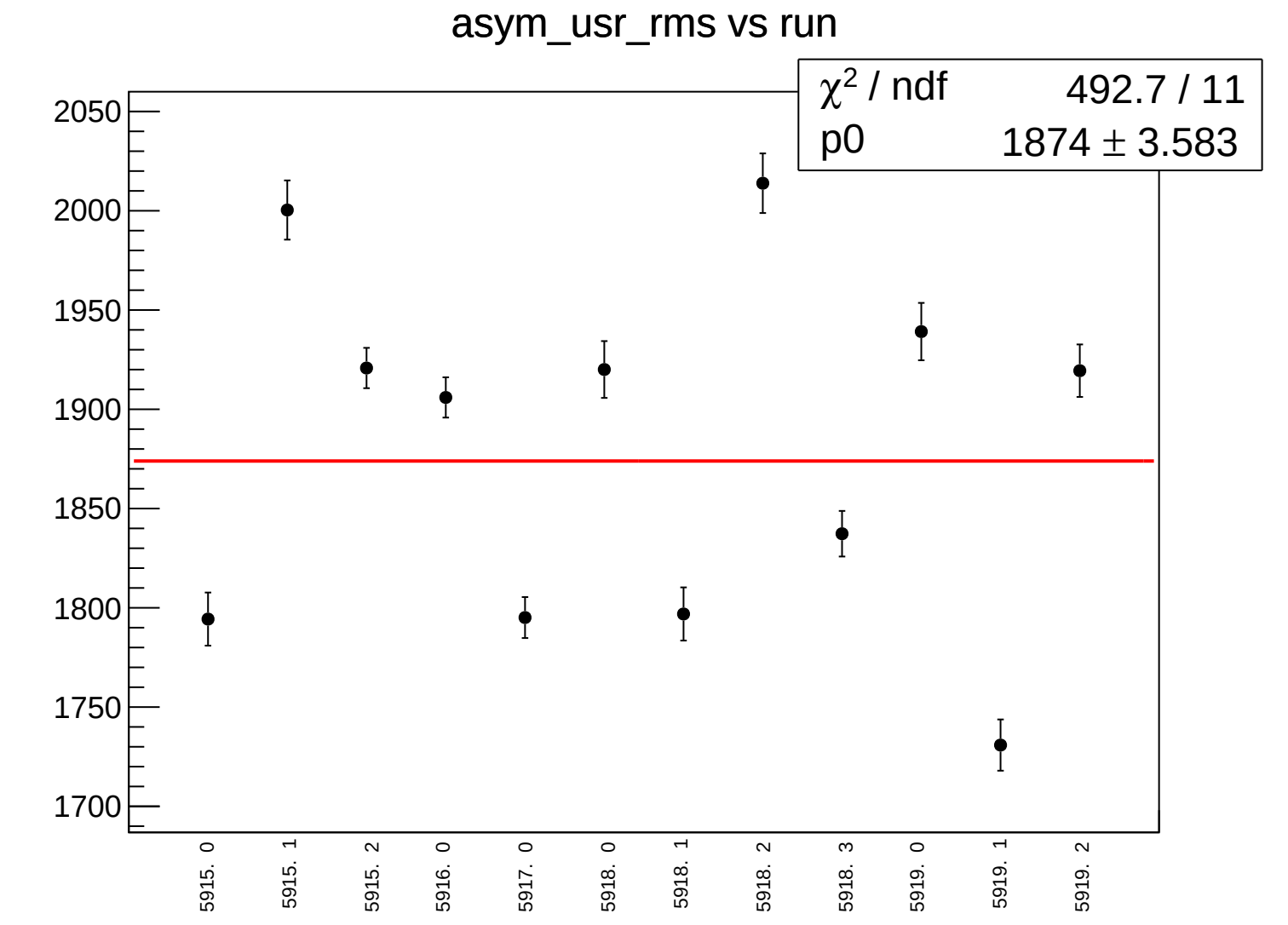

asym_usr_correction_mean vs run
χ² / ndf 14.99 / 11
p0 −4245 ± 3906
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.45
Std Dev 5.076
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

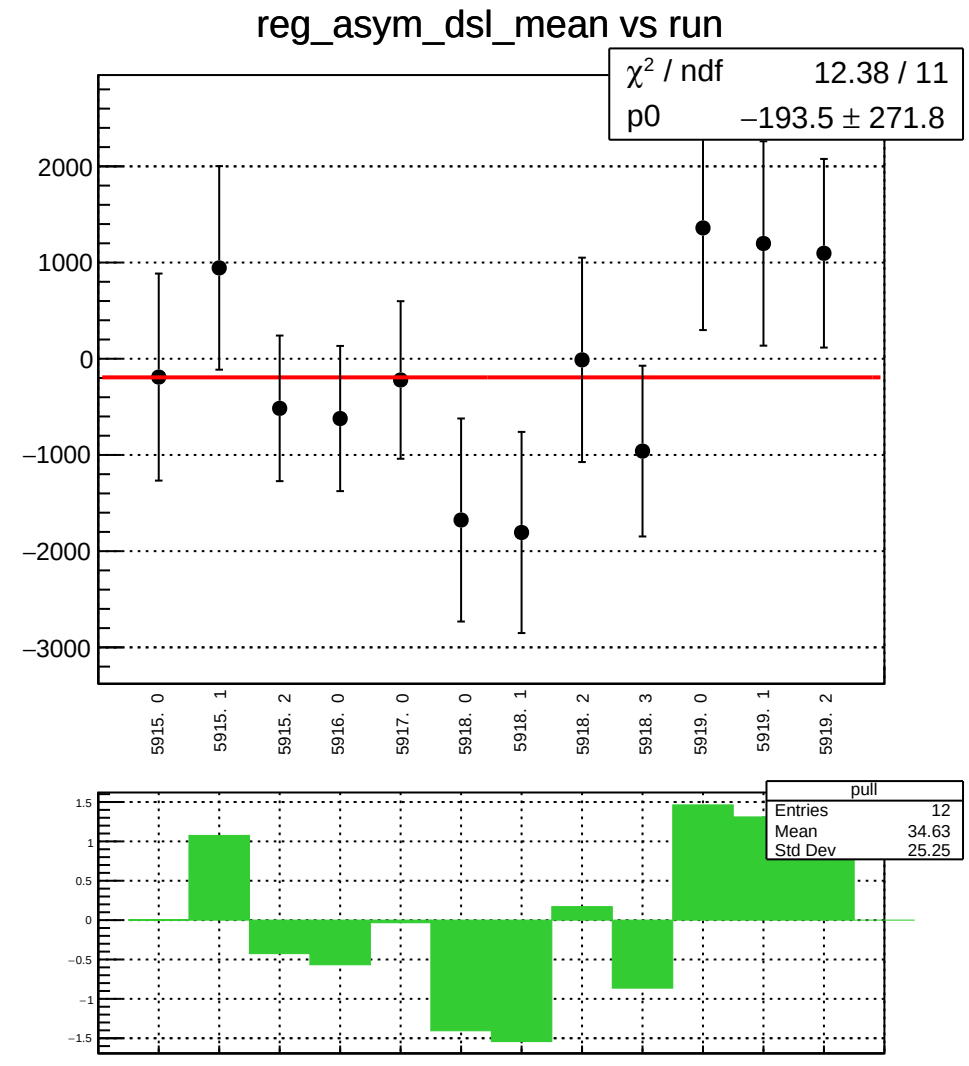

pull1D
Entries 12
Mean 0.1024
Std Dev 1.113
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

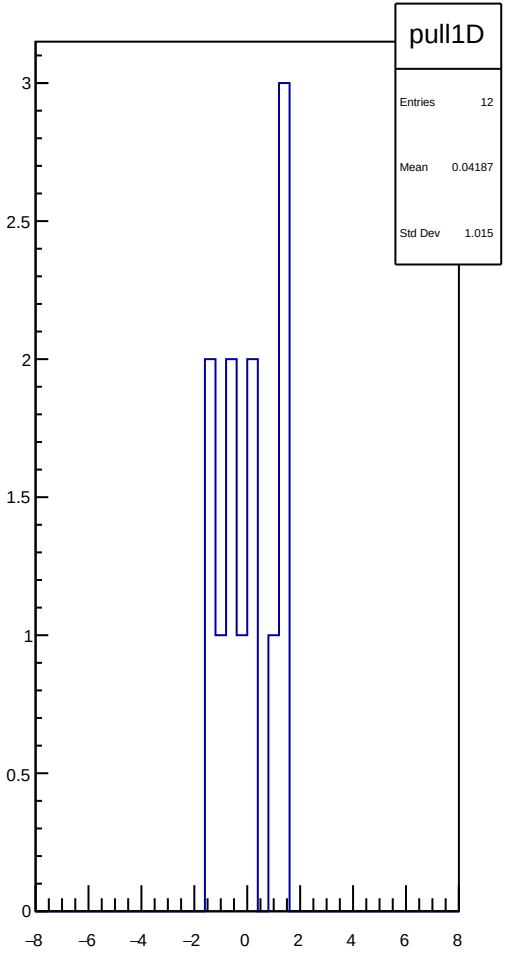

asym_usr_correction_rms vs run
χ² / ndf 1388 / 11
p0 1442 ± 2.762
1650
1600
1550
1500
1450
1400
1350
1300
1250
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

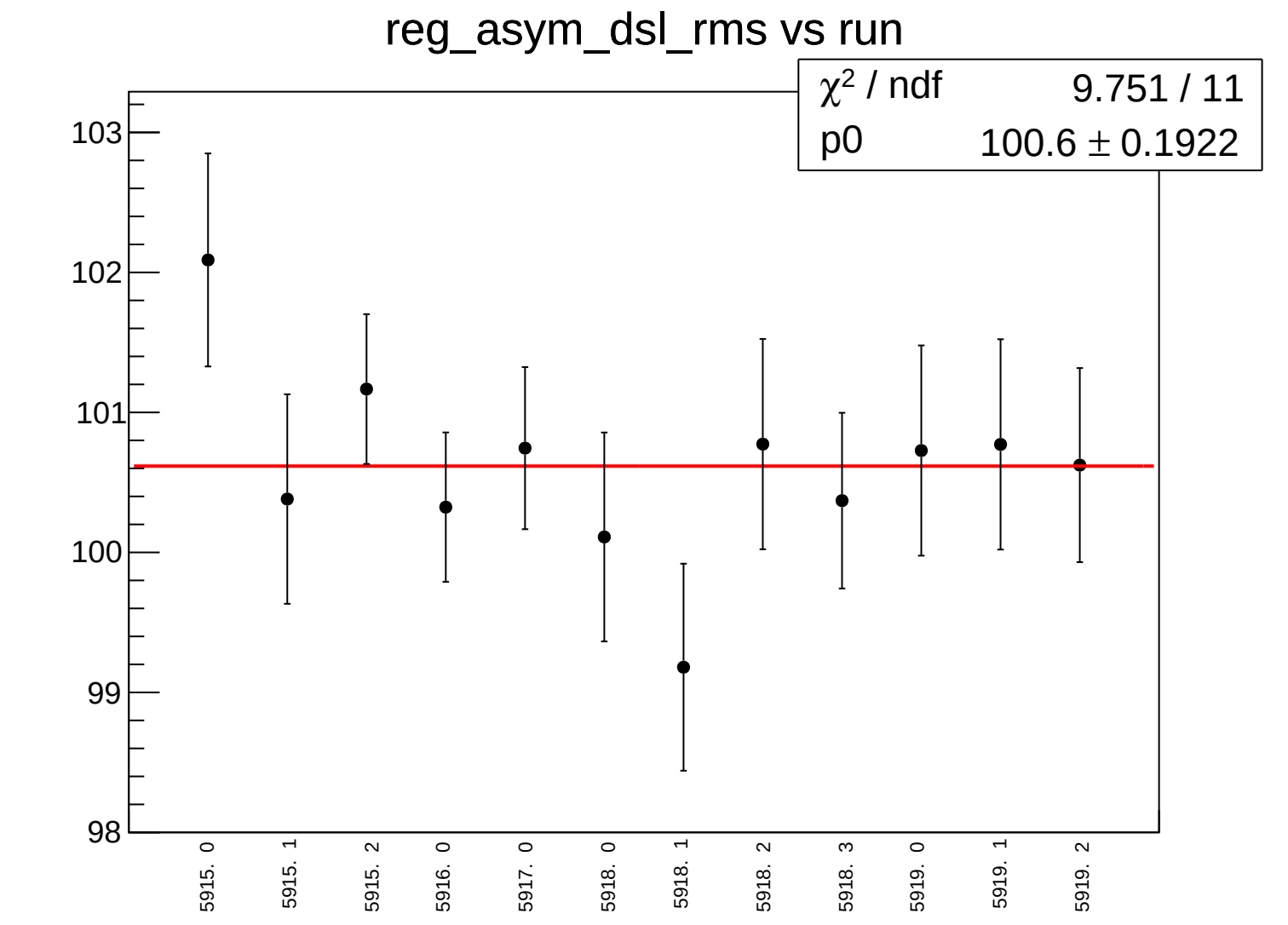

asym_usr_mean vs run
χ² / ndf 9.196 / 11
p0 6503 ± 5067
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 20.33
Std Dev 12.39
1.5
1
0.5
0
−0.5
−1
−1.5
−2

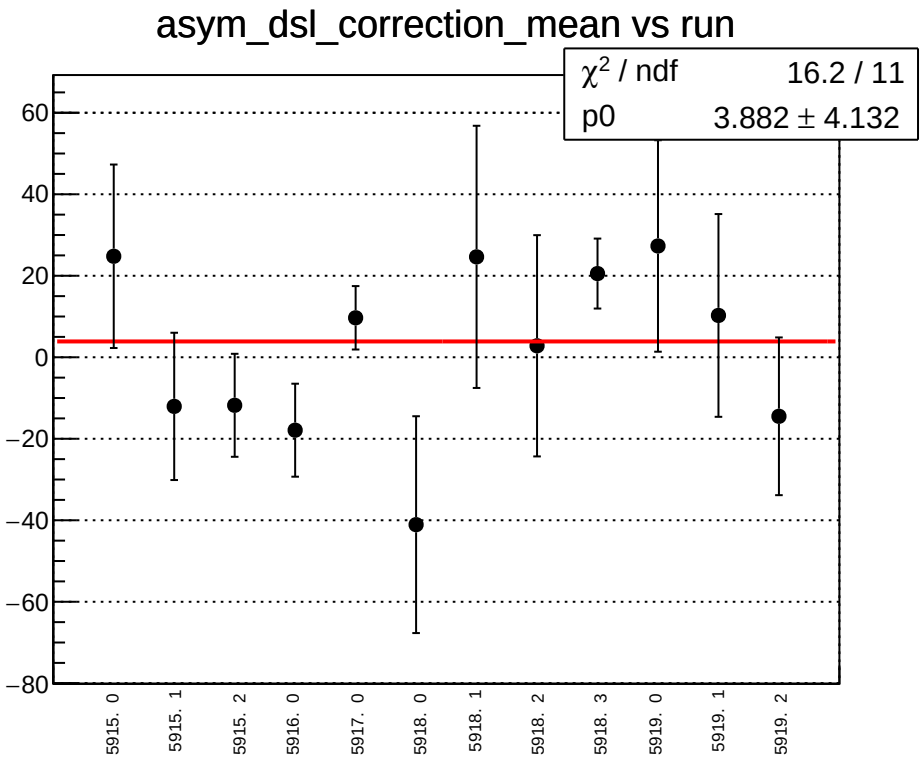

pull1D
Entries 12
Mean −0.06342
Std Dev 0.8731
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

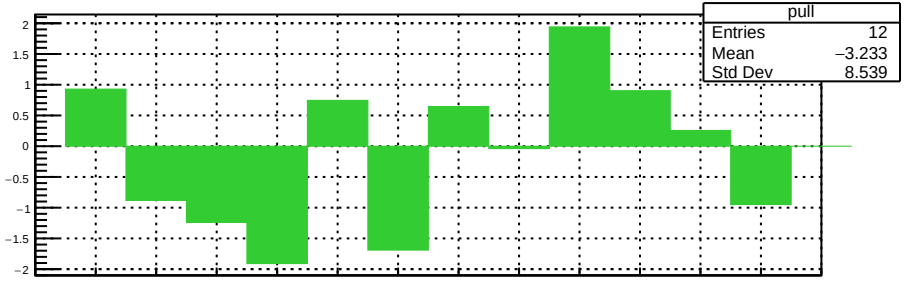

asym_usr_rms vs run
χ² / ndf 492.7 / 11
p0 1874 ± 3.583
2050
2000
1950
1900
1850
1800
1750
1700
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

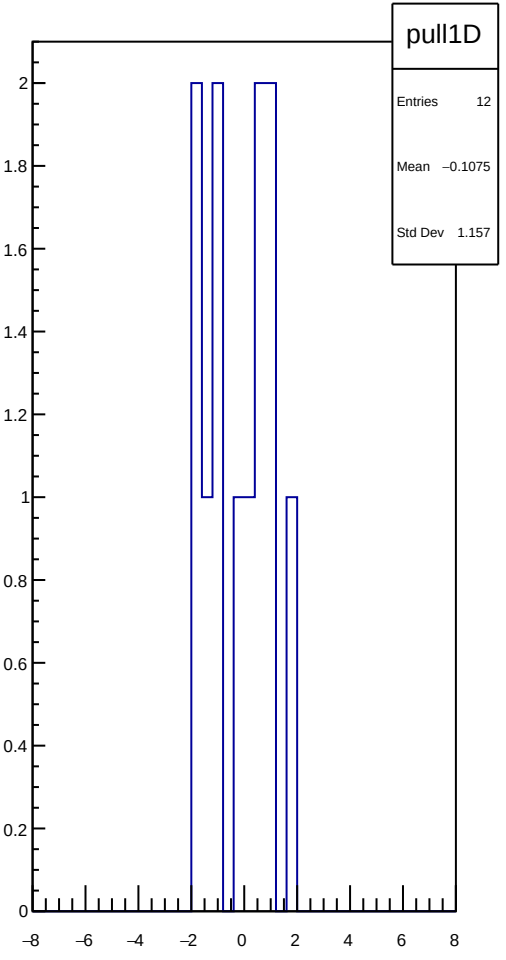

reg_asym_dsl_mean vs run
χ² / ndf 12.38 / 11
p0 −193.5 ± 271.8
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 34.63
Std Dev 25.25
1.5
1
0.5
0
−0.5
−1
−1.5

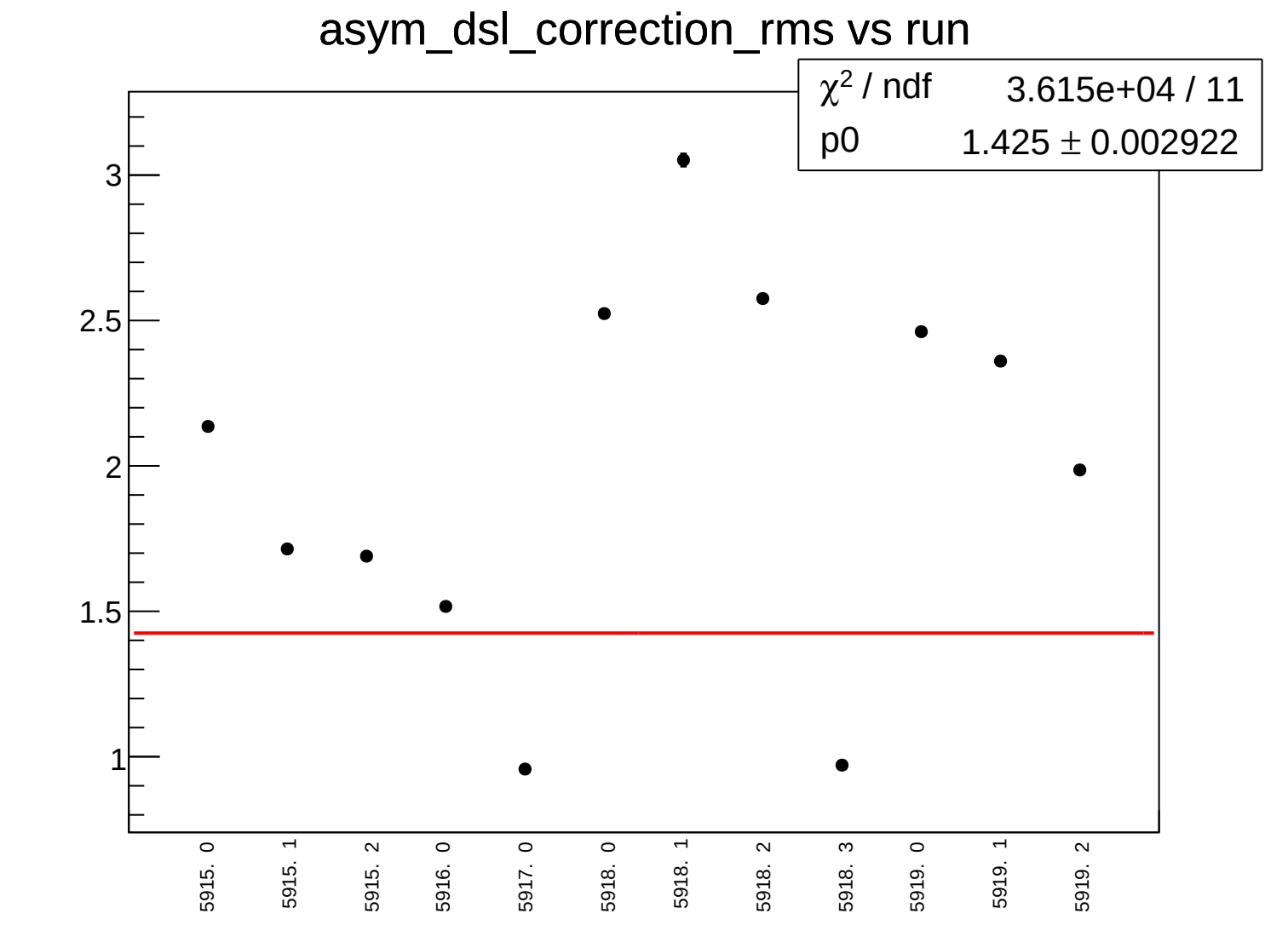

pull1D
Entries 12
Mean 0.04187
Std Dev 1.015
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

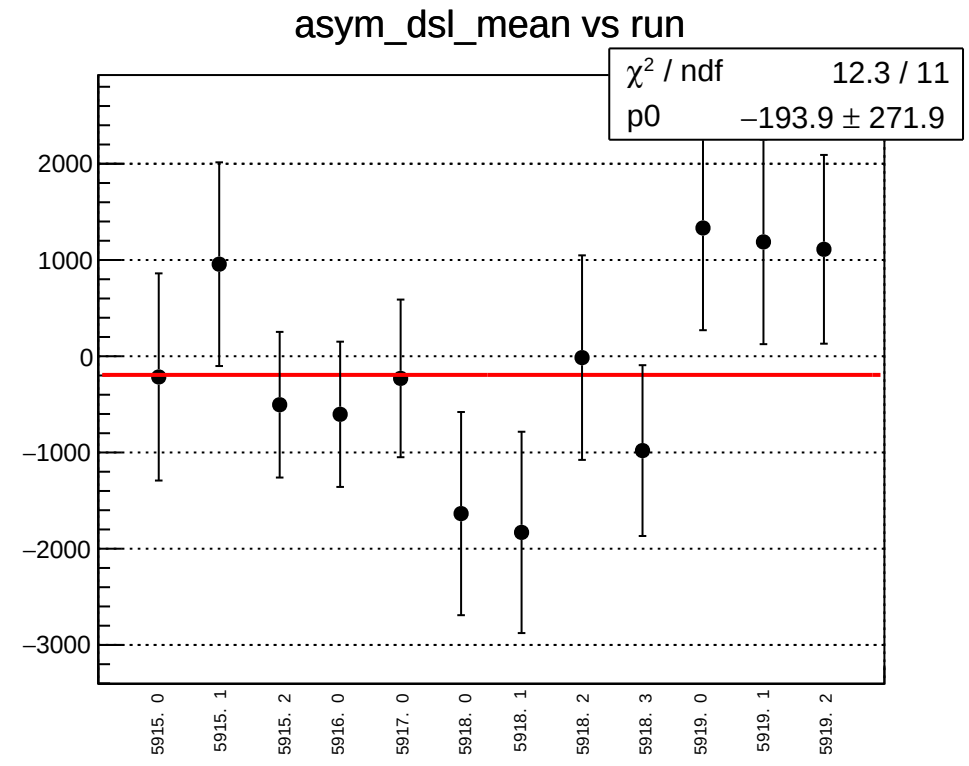

reg_asym_dsl_rms vs run
χ² / ndf 9.751 / 11
p0 100.6 ± 0.1922
103
102
101
100
99
98
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

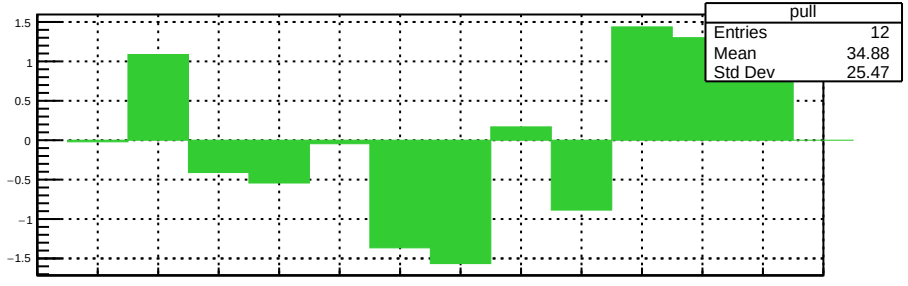

asym_dsl_correction_mean vs run
χ² / ndf 16.2 / 11
p0 3.882 ± 4.132
60
40
20
0
−20
−40
−60
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

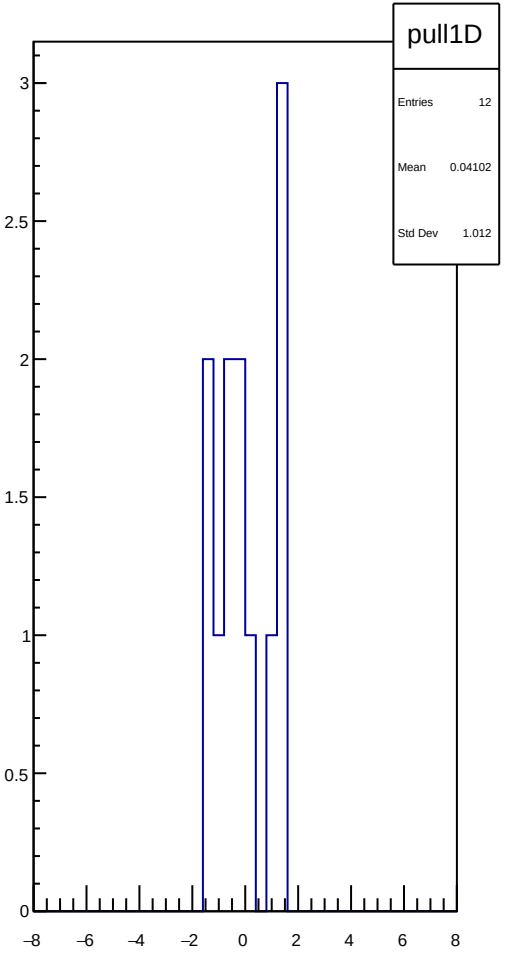

pull
Entries 12
Mean −3.233
Std Dev 8.539
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

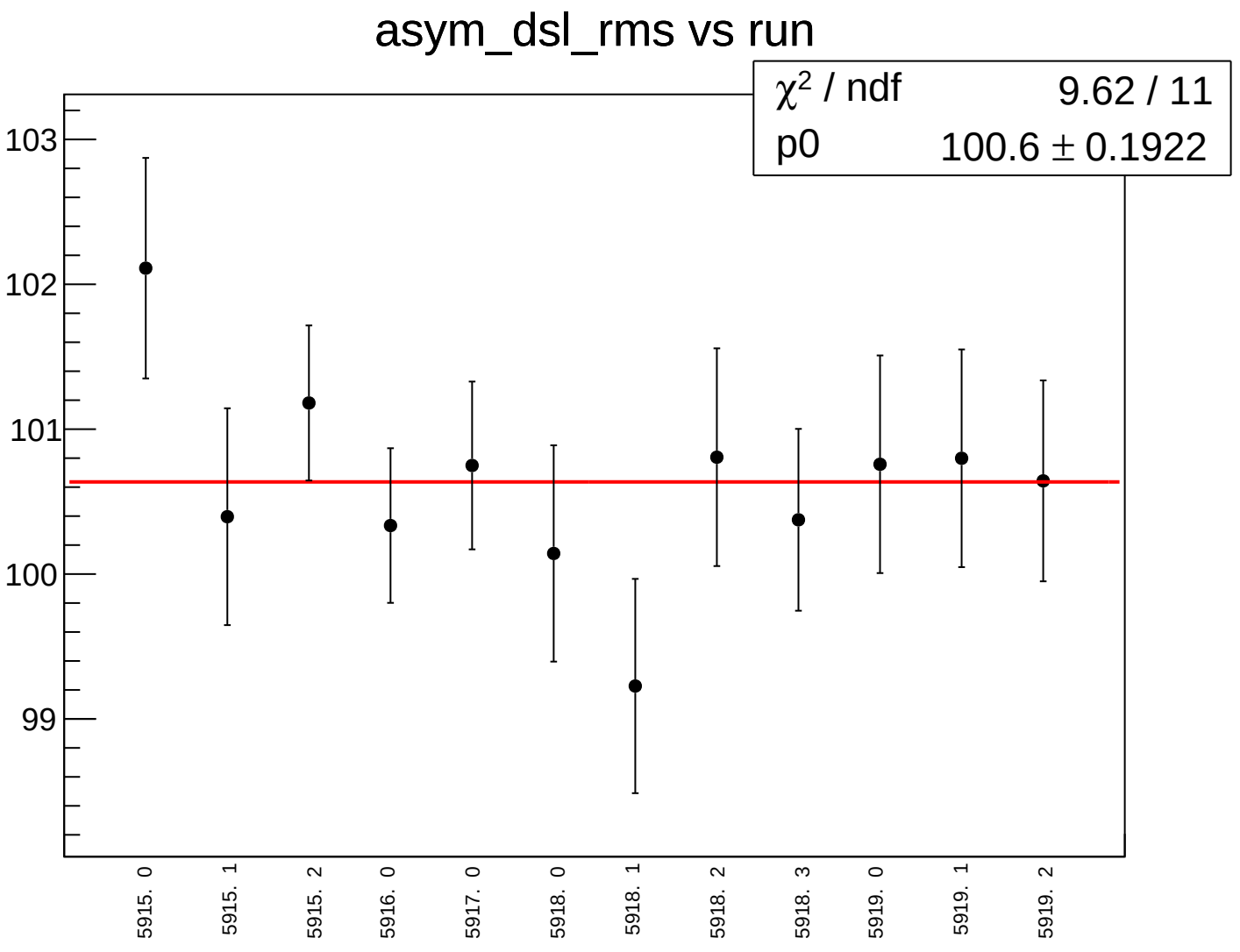

pull1D
Entries 12
Mean −0.1075
Std Dev 1.157
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

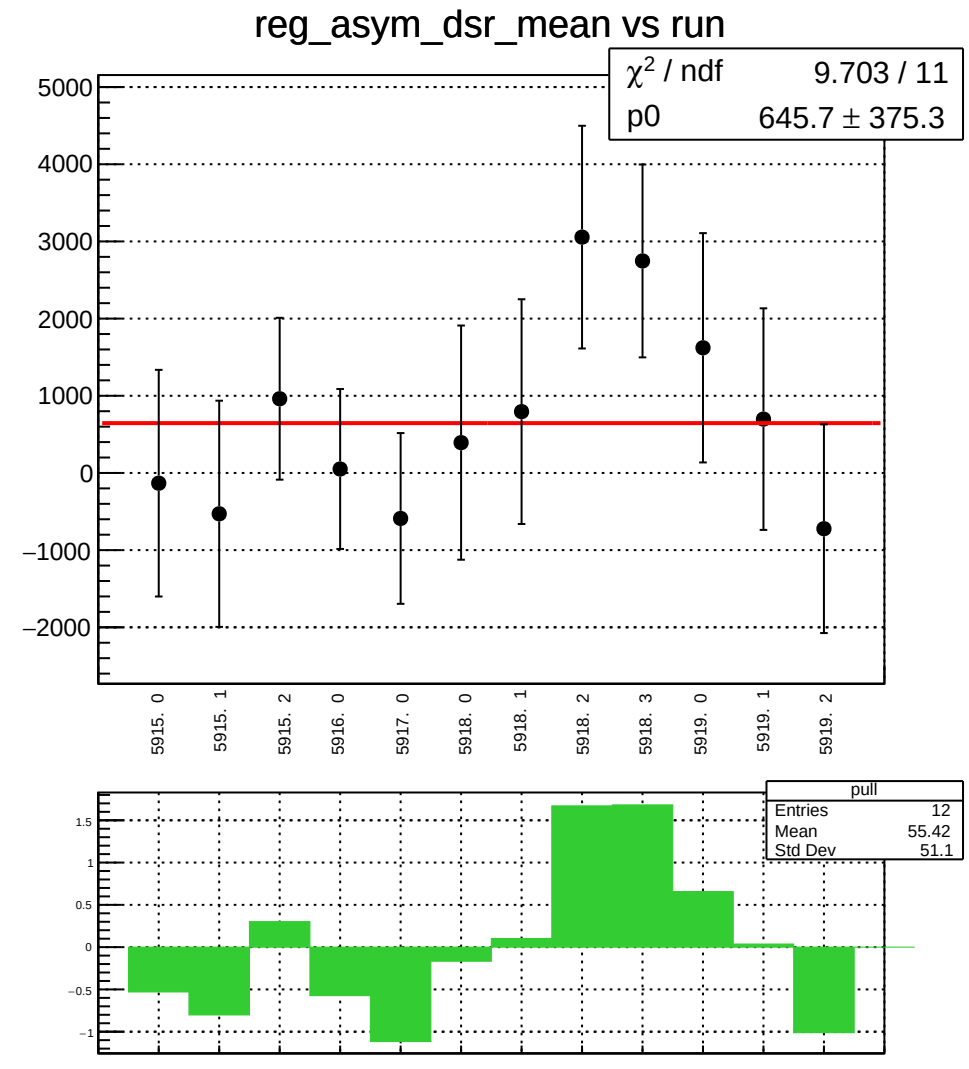

asym_dsl_correction_rms vs run
χ^2 / ndf 3.615e+04 / 11
p0 1.425 ± 0.002922
3
2.5
2
1.5
1
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

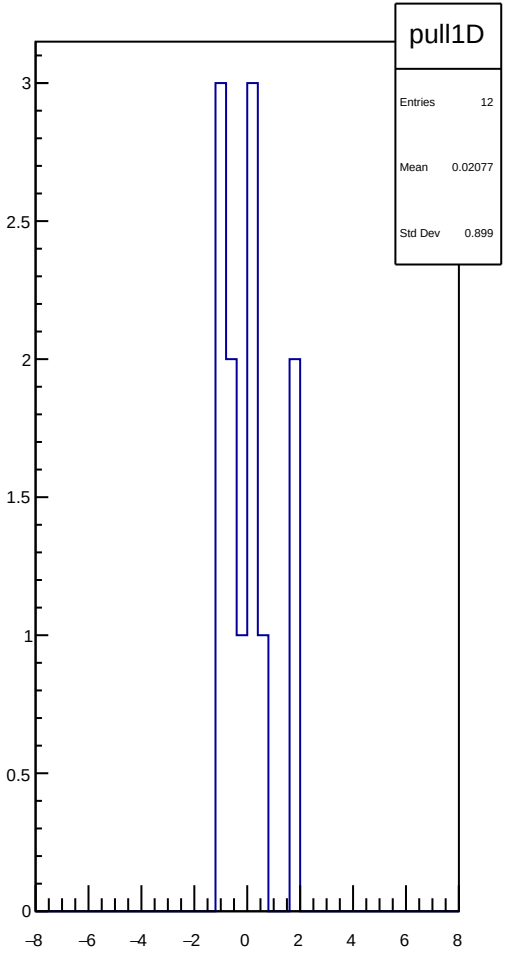

asym_dsl_mean vs run
χ² / ndf 12.3 / 11
p0 −193.9 ± 271.9
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

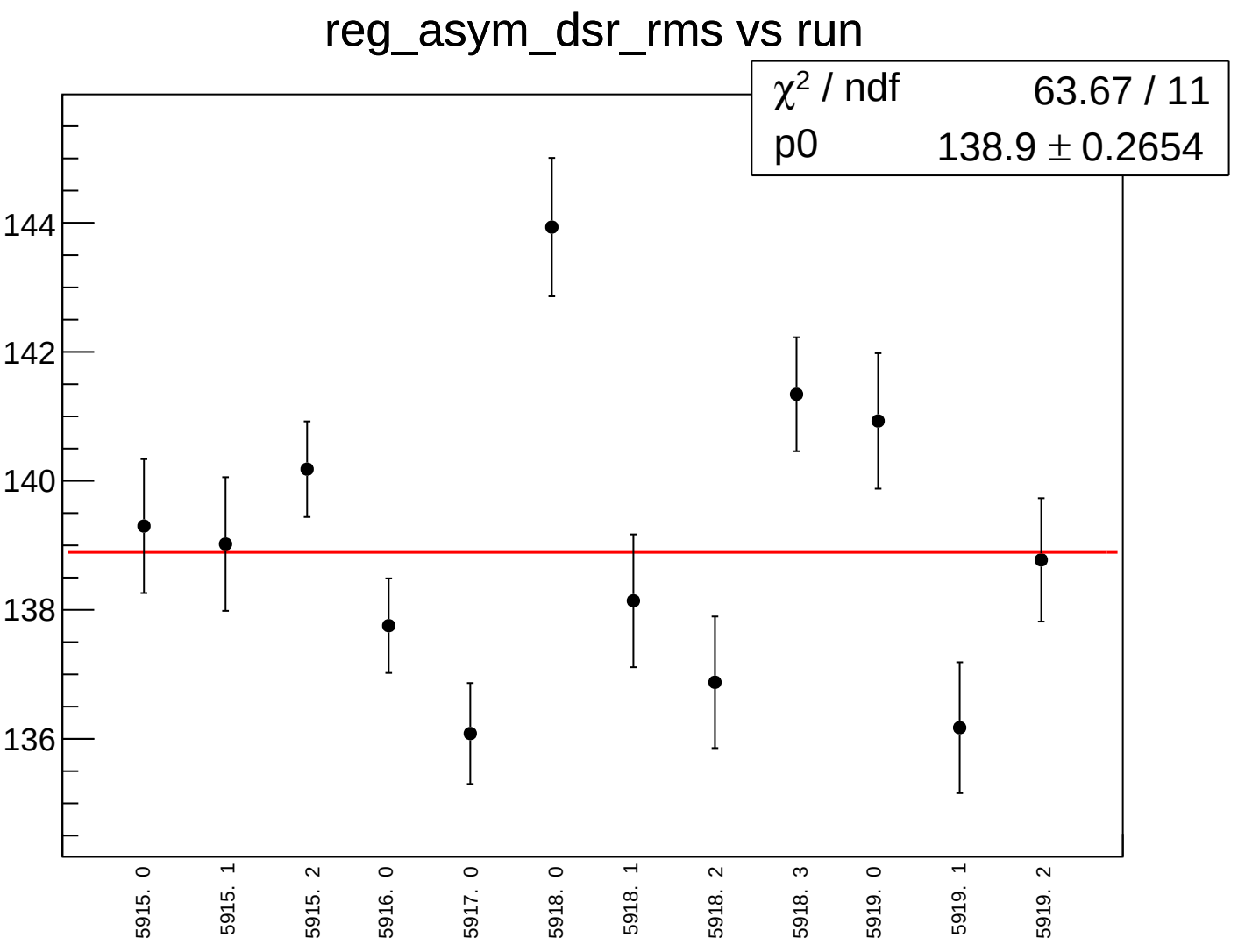

pull
Entries 12
Mean 34.88
Std Dev 25.47
1.5
1
0.5
0
−0.5
−1
−1.5

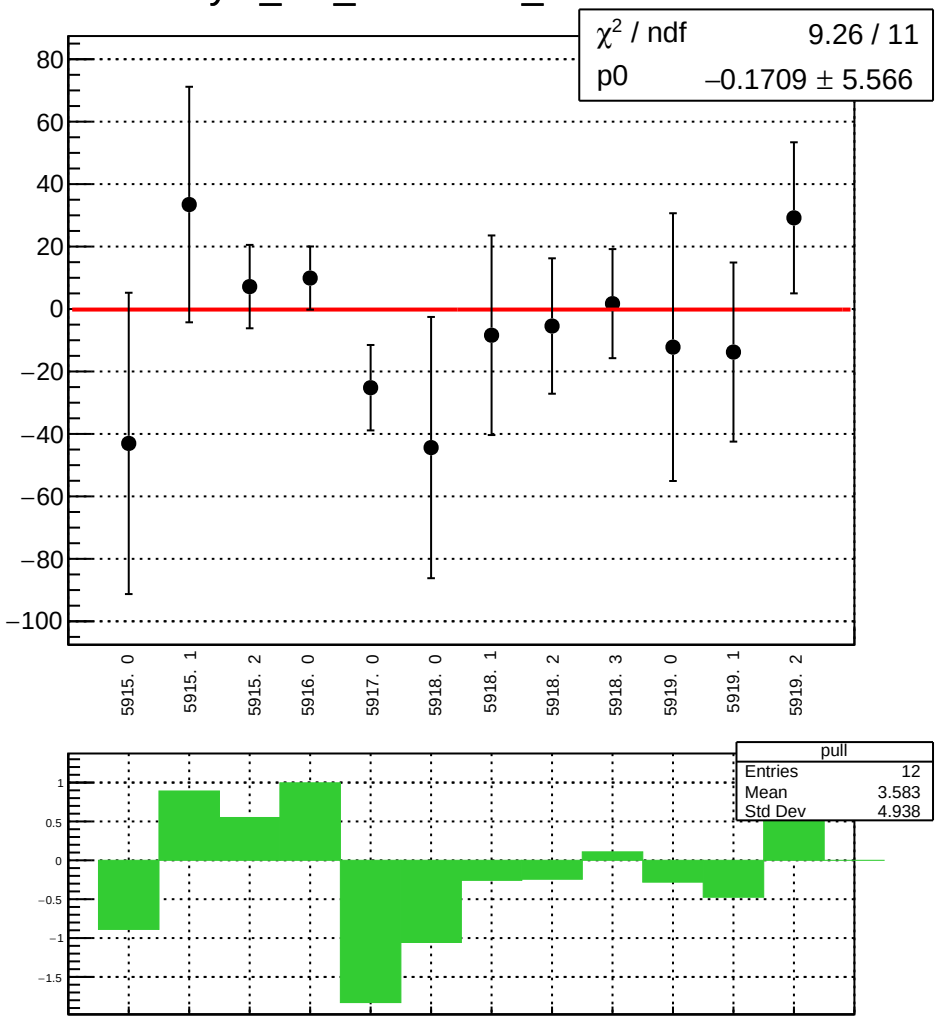

pull1D
Entries 12
Mean 0.04102
Std Dev 1.012
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

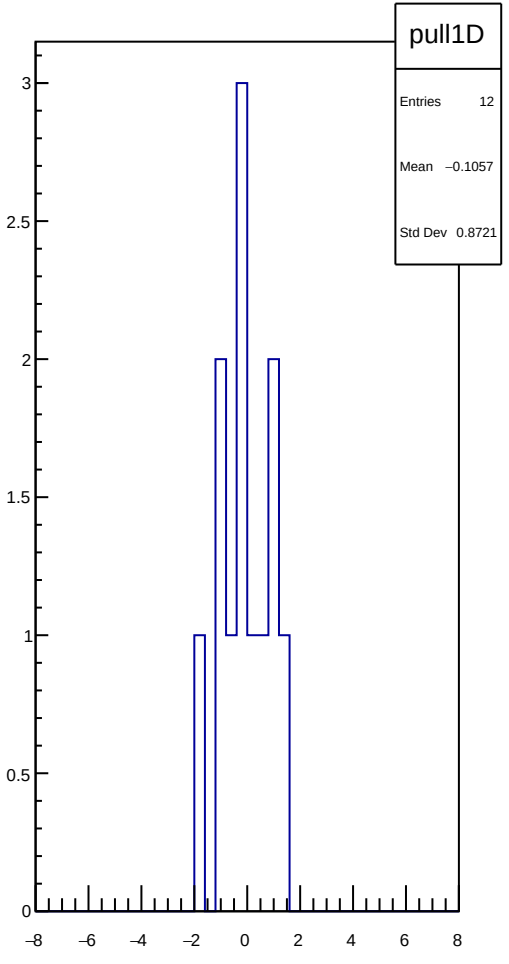

asym_dsl_rms vs run
χ² / ndf 9.62 / 11
p0 100.6 ± 0.1922
103
102
101
100
99
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

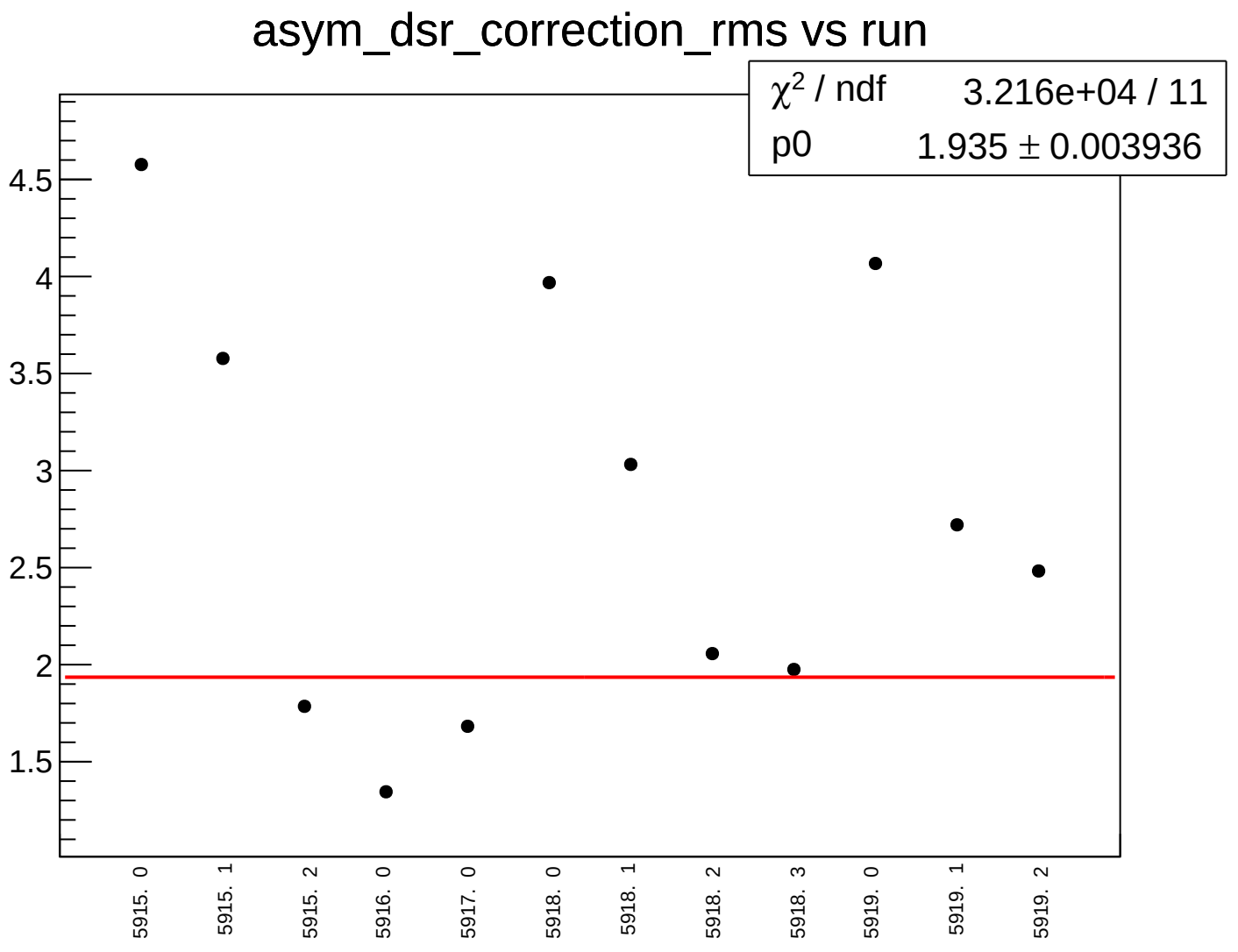

reg_asym_dsr_mean vs run
χ² / ndf 9.703 / 11
p0 645.7 ± 375.3
5000
4000
3000
2000
1000
0
−1000
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 55.42
Std Dev 51.1
1.5
1
0.5
0
−0.5
−1

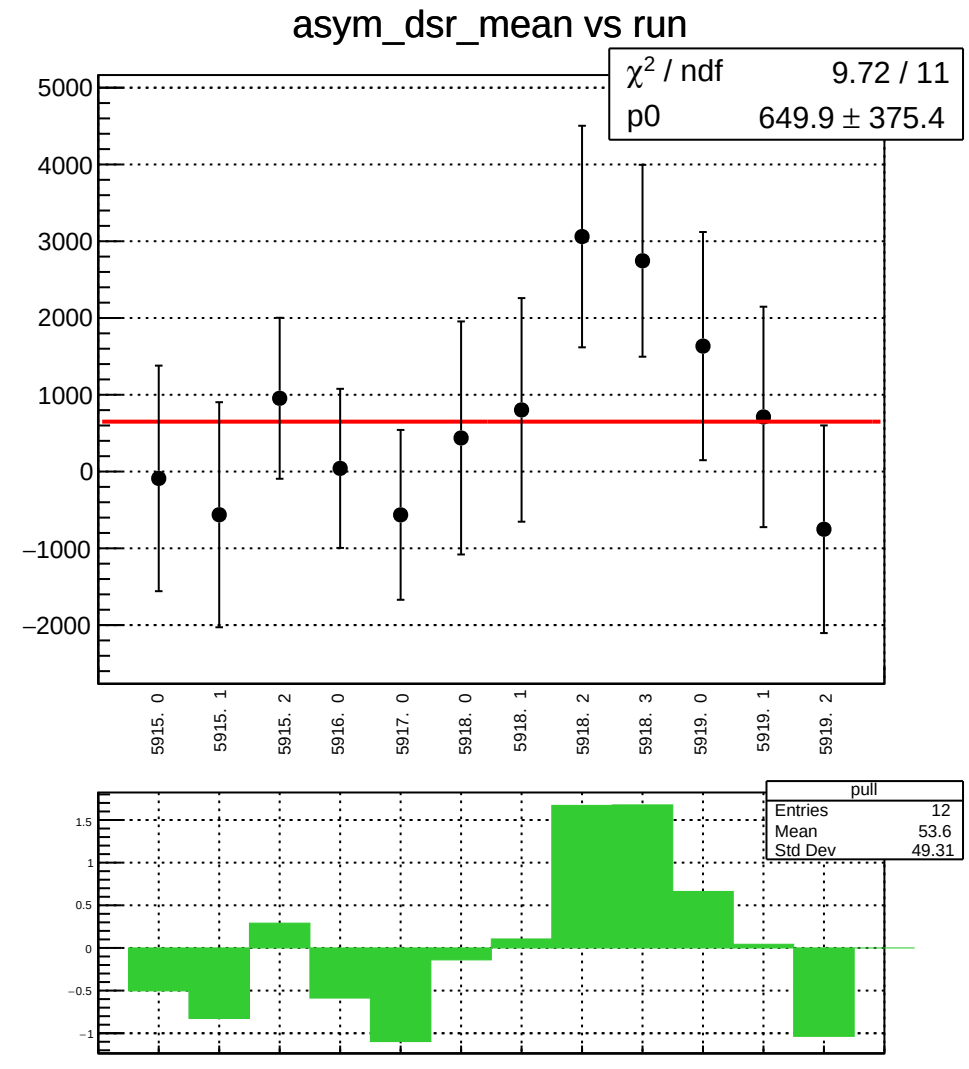

pull1D
Entries 12
Mean 0.02077
Std Dev 0.899
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

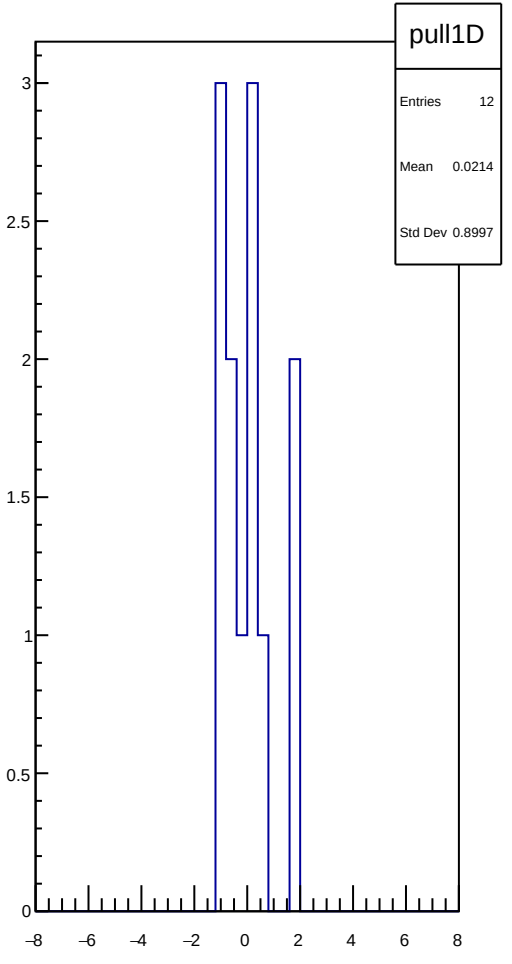

reg_asym_dsr_rms vs run
χ² / ndf 63.67 / 11
p0 138.9 ± 0.2654
144
142
140
138
136
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

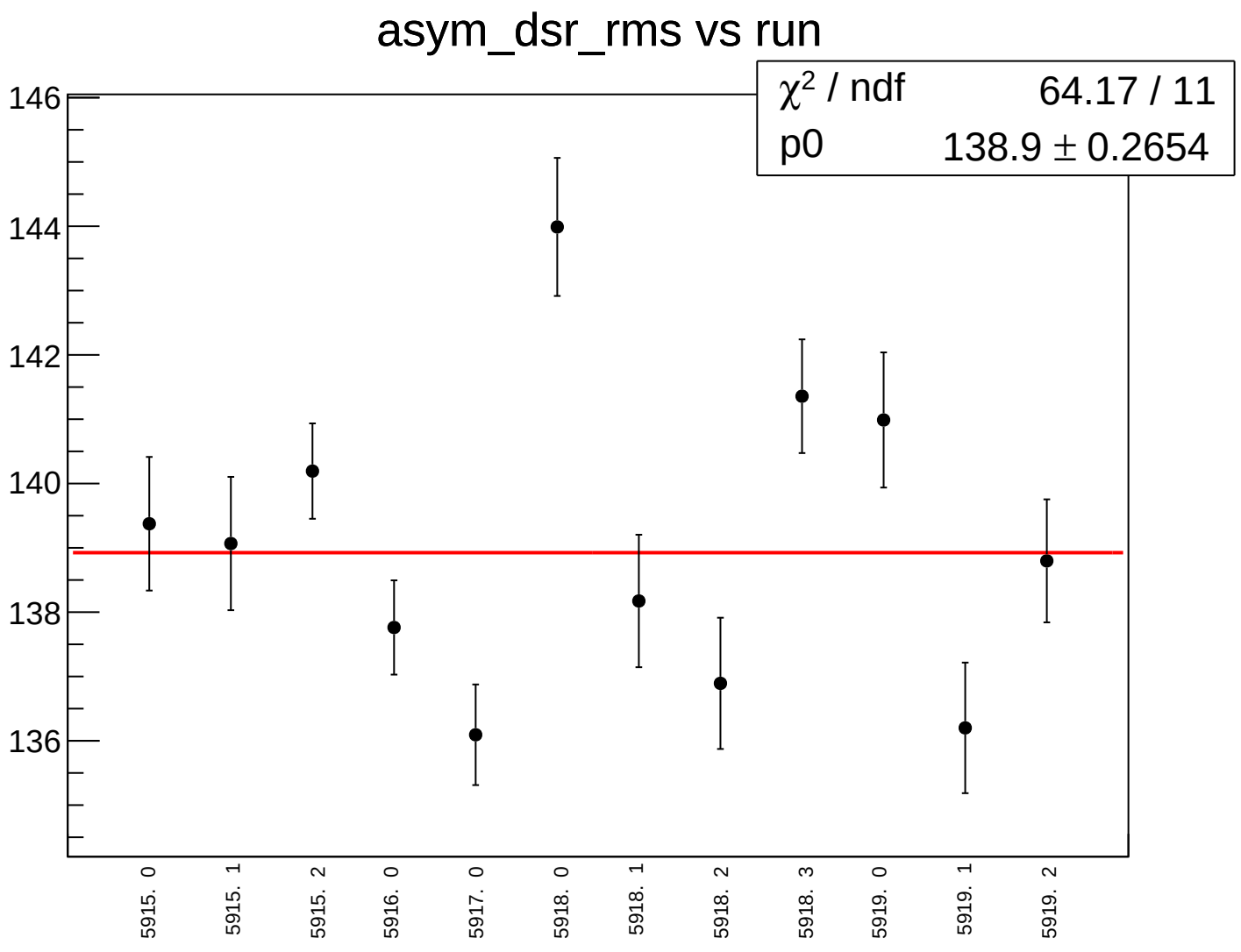

asym_dsr_correction_mean vs run
χ² / ndf 9.26 / 11
p0 −0.1709 ± 5.566
80
60
40
20
0
−20
−40
−60
−80
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.583
Std Dev 4.938
1
0.5
0
−0.5
−1
−1.5

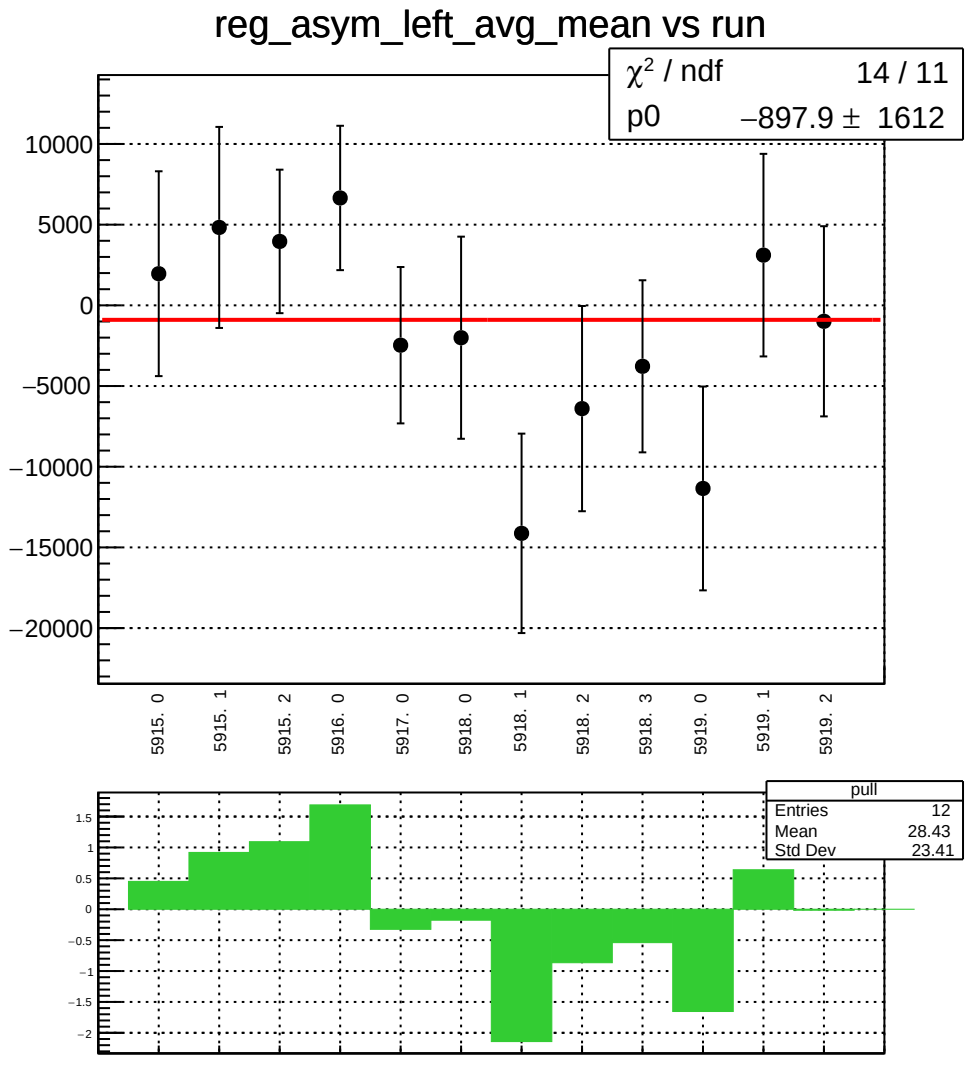

pull1D
Entries 12
Mean −0.1057
Std Dev 0.8721
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

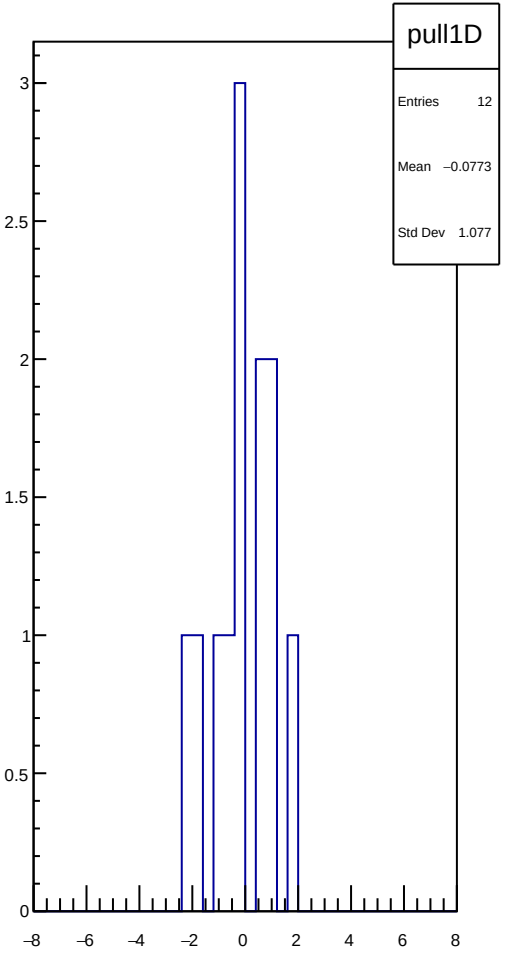

asym_dsr_correction_rms vs run
χ² / ndf 3.216e+04 / 11
p0 1.935 ± 0.003936
4.5
4
3.5
3
2.5
2
1.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

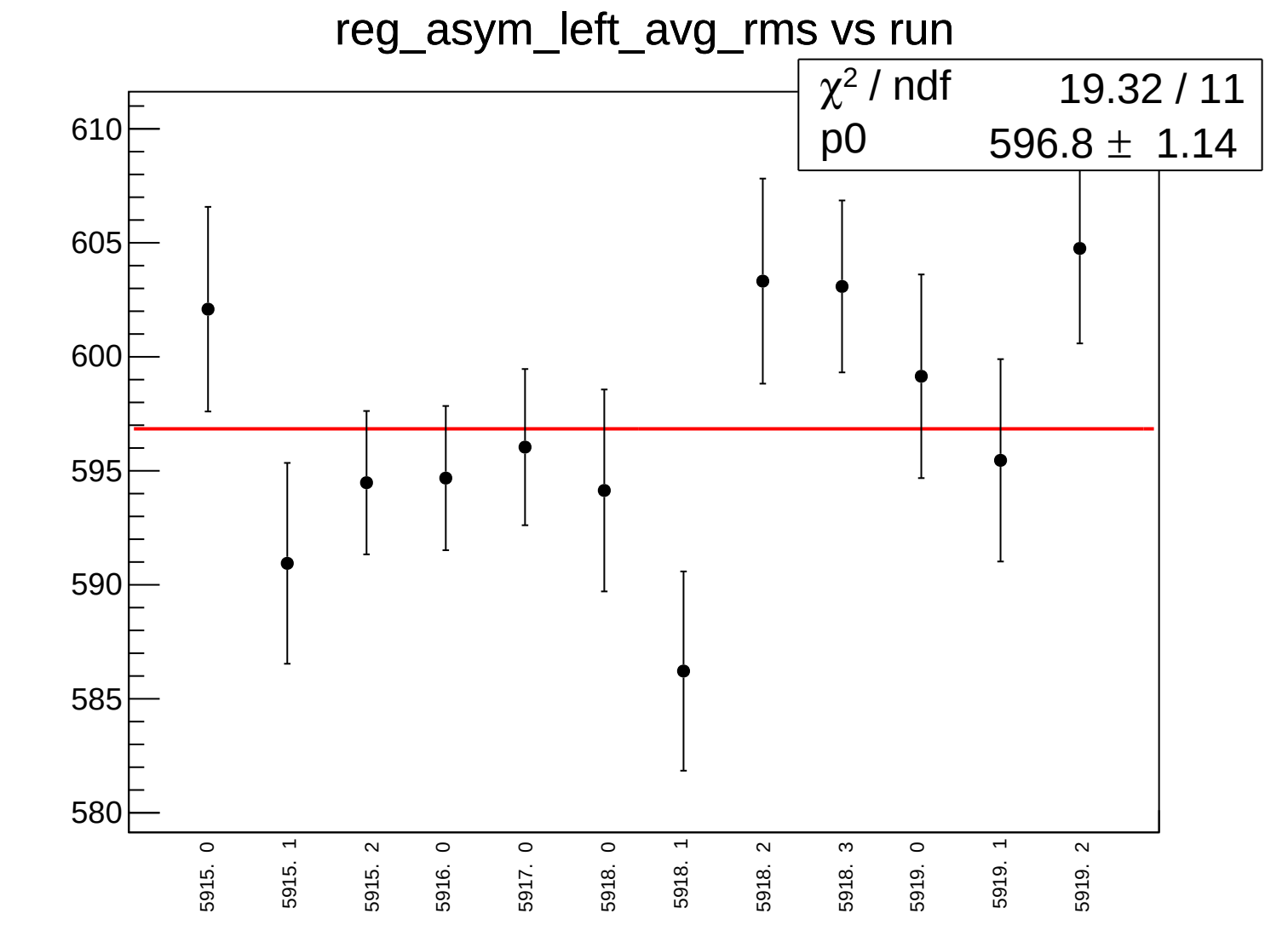

asym_dsr_mean vs run
χ² / ndf 9.72 / 11
p0 649.9 ± 375.4
5000
4000
3000
2000
1000
0
−1000
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 53.6
Std Dev 49.31
1.5
1
0.5
0
−0.5
−1

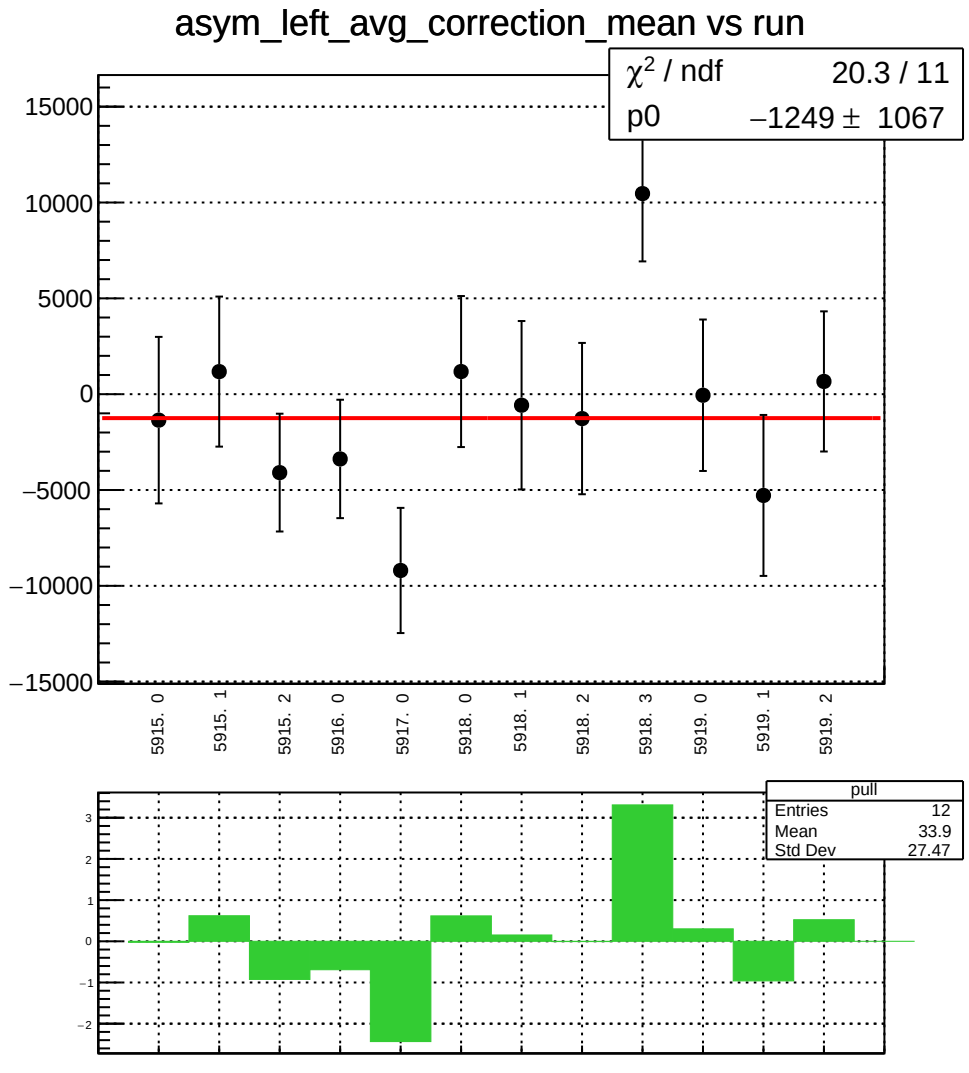

pull1D
Entries 12
Mean 0.0214
Std Dev 0.8997
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

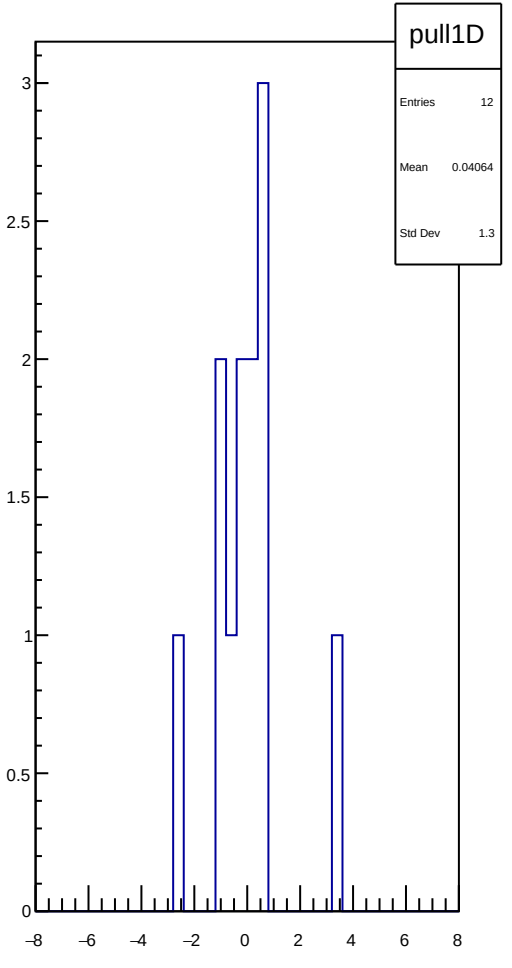

asym_dsr_rms vs run
χ² / ndf 64.17 / 11
p0 138.9 ± 0.2654
146
144
142
140
138
136
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

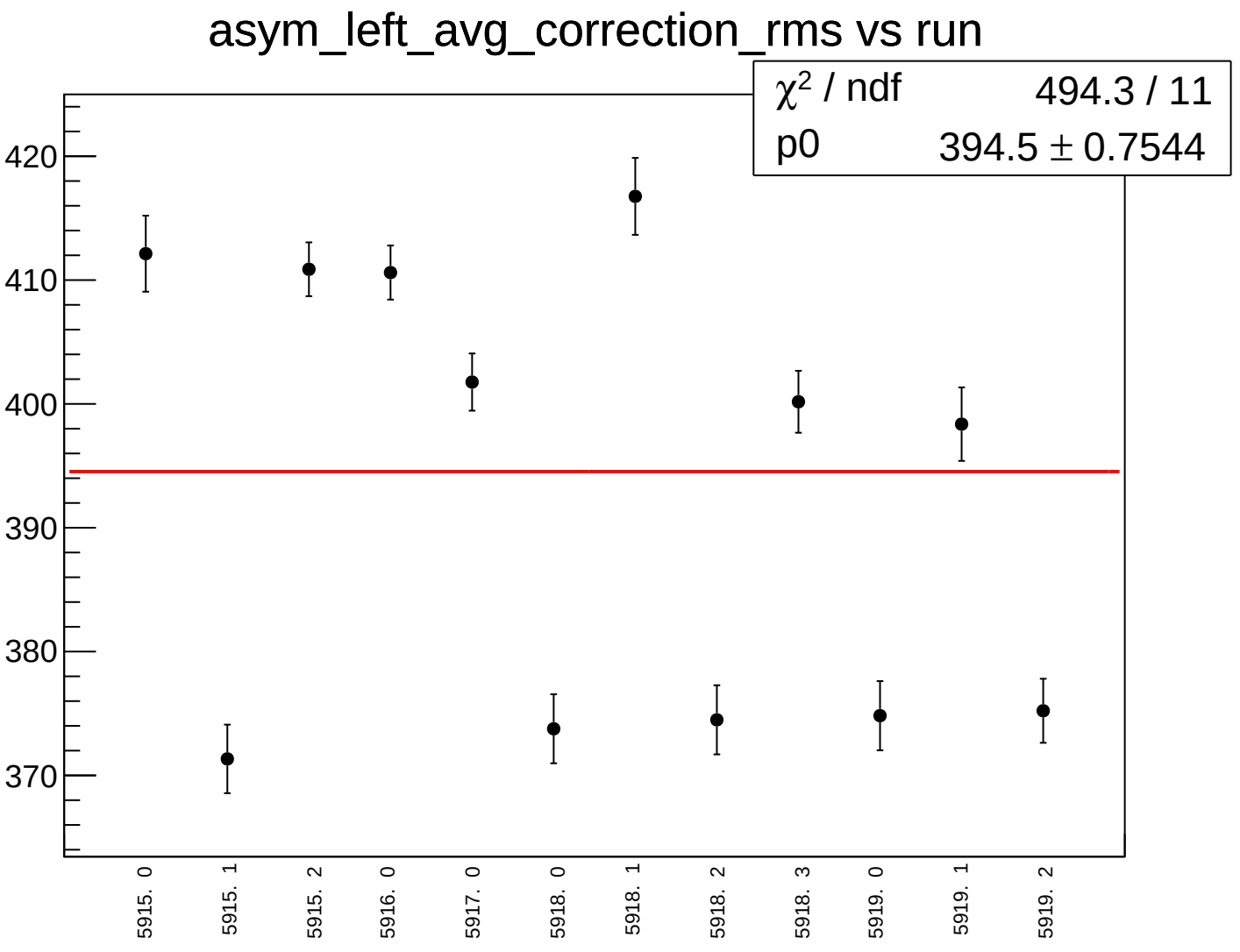

reg_asym_left_avg_mean vs run
χ² / ndf 14 / 11
p0 −897.9 ± 1612
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.43
Std Dev 23.41
1.5
1
0.5
0
−0.5
−1
−1.5
−2

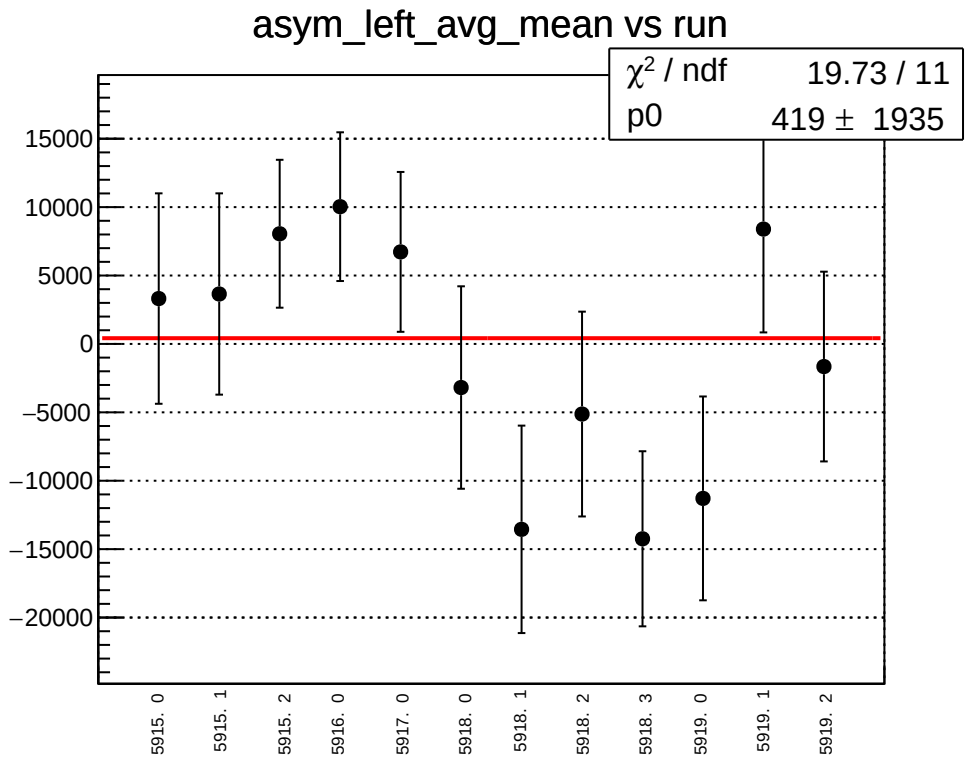

pull1D
Entries 12
Mean −0.0773
Std Dev 1.077
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

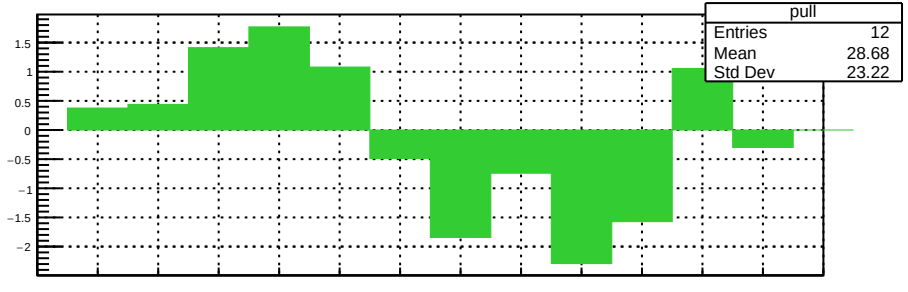

reg_asym_left_avg_rms vs run
χ² / ndf 19.32 / 11
p0 596.8 ± 1.14
610
605
600
595
590
585
580
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

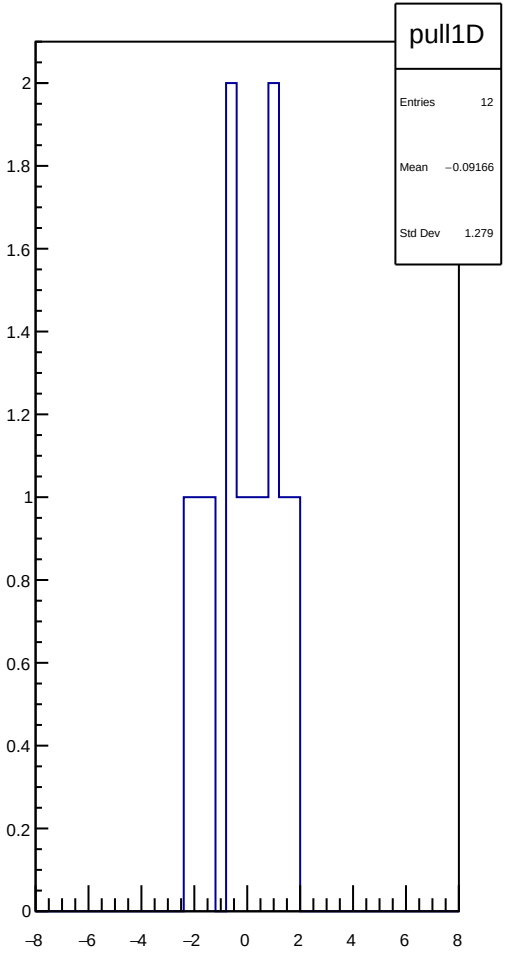

asym_left_avg_correction_mean vs run
χ² / ndf 20.3 / 11
p0 −1249 ± 1067
15000
10000
5000
0
−5000
−10000
−15000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 33.9
Std Dev 27.47
3
2
1
0
−1
−2

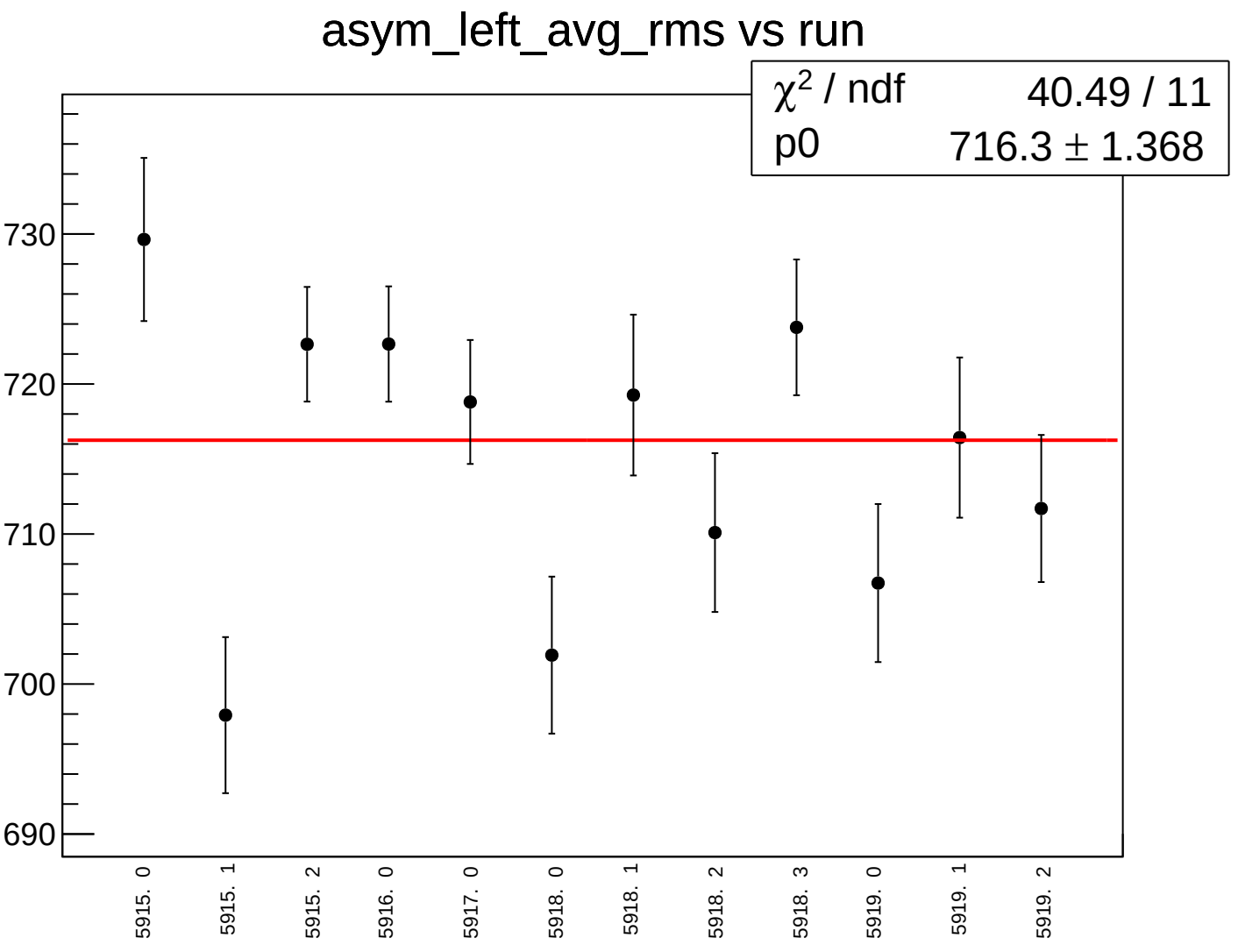

pull1D
Entries 12
Mean 0.04064
Std Dev 1.3
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

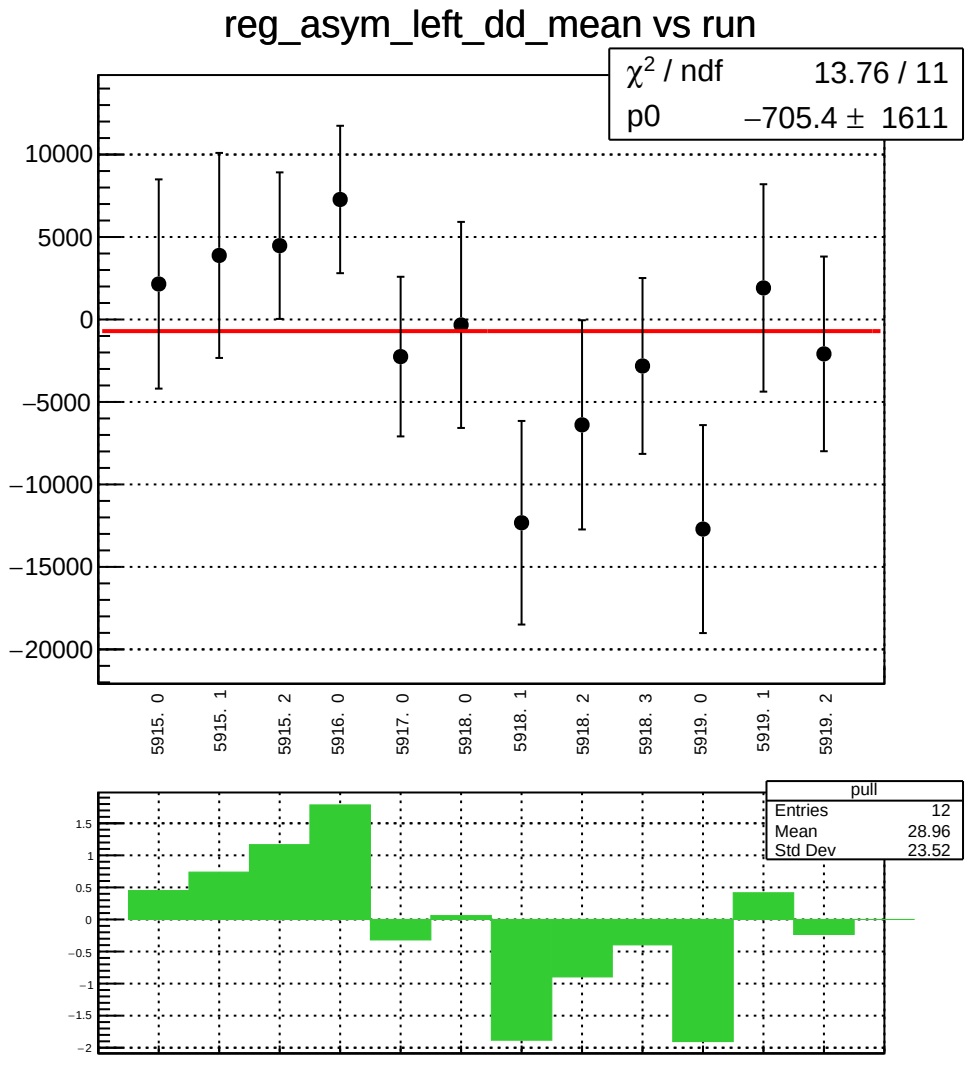

asym_left_avg_correction_rms vs run
χ² / ndf 494.3 / 11
p0 394.5 ± 0.7544
420
410
400
390
380
370
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

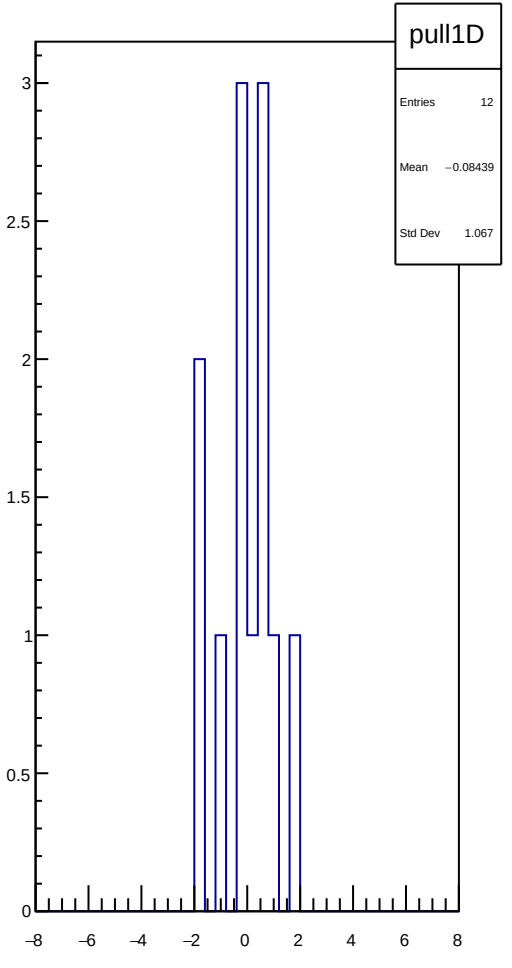

asym_left_avg_mean vs run
χ² / ndf 19.73 / 11
p0 419 ± 1935
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

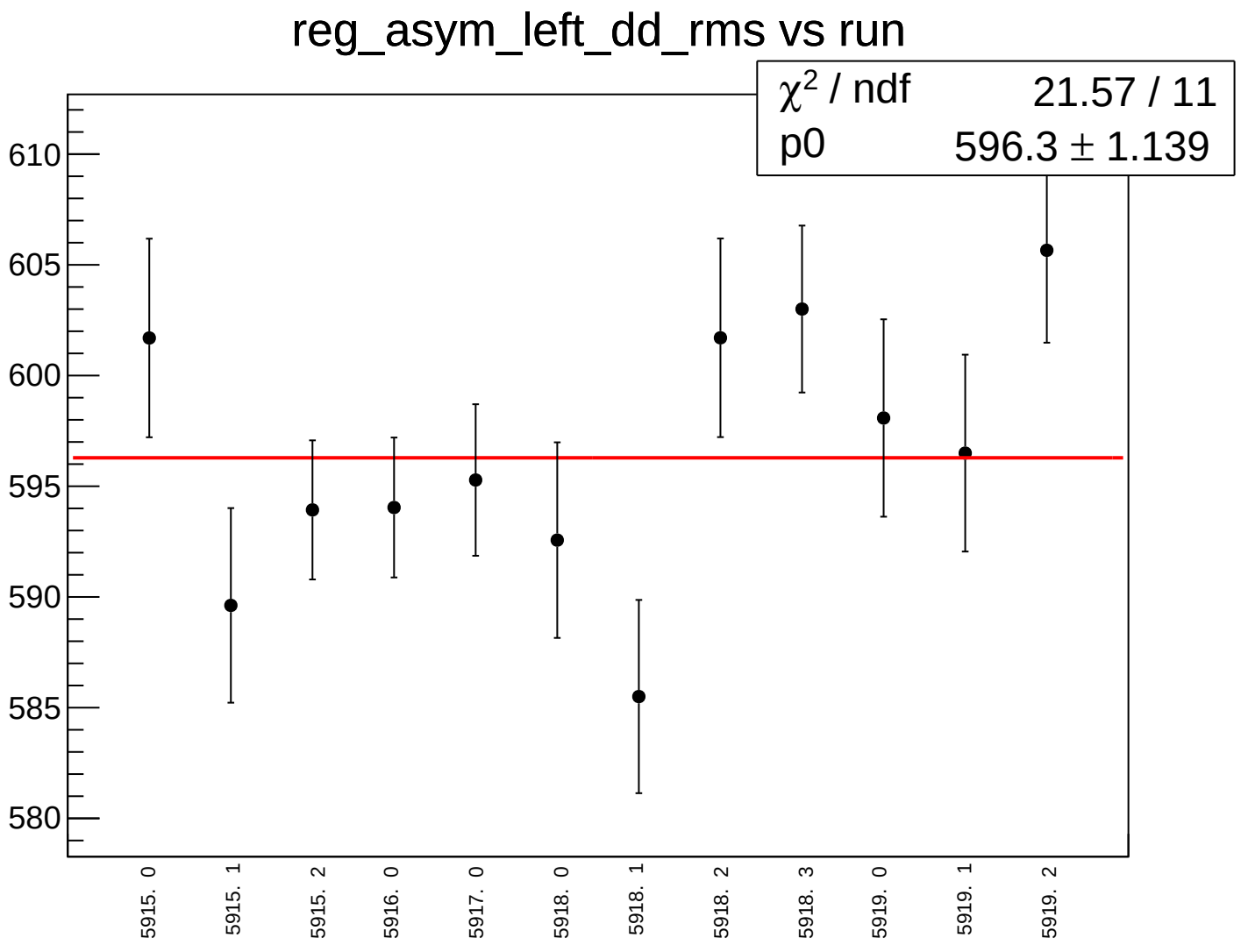

pull
Entries 12
Mean 28.68
Std Dev 23.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2

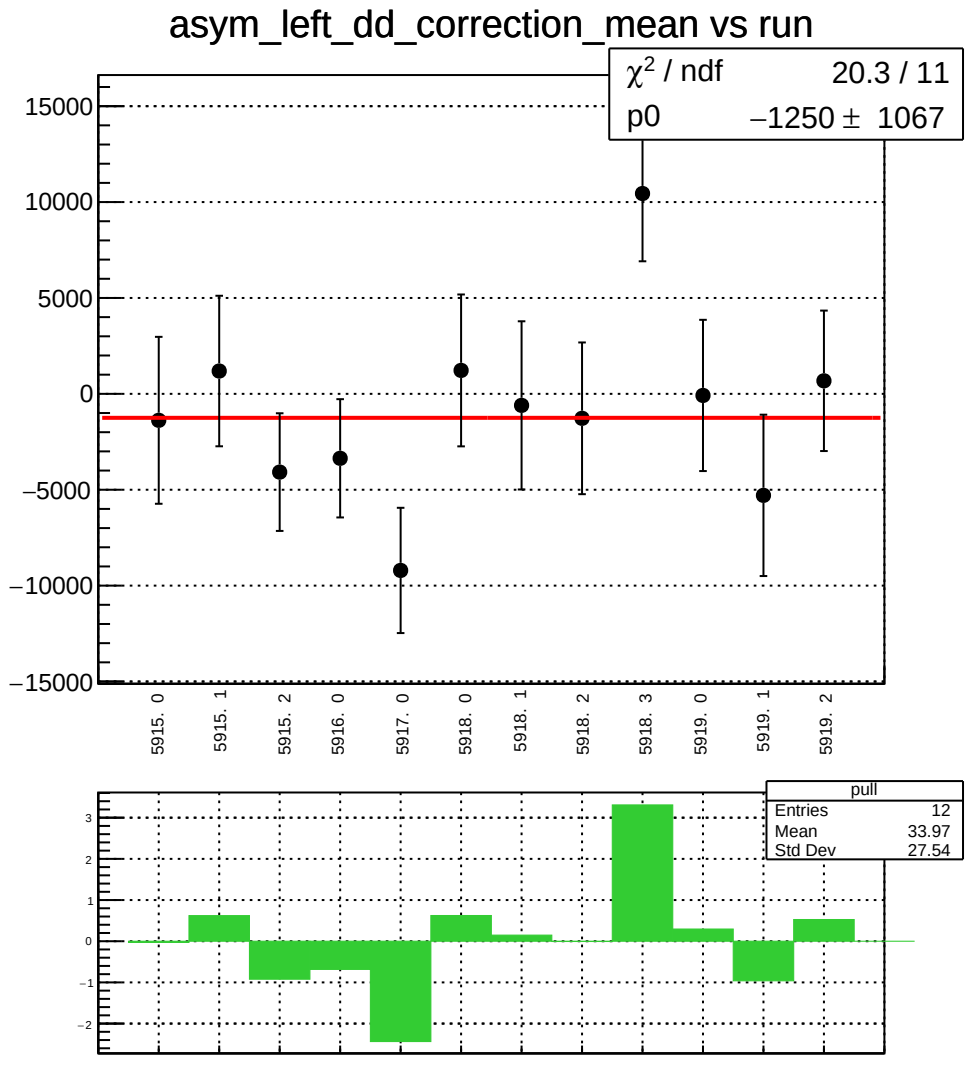

pull1D
Entries 12
Mean −0.09166
Std Dev 1.279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

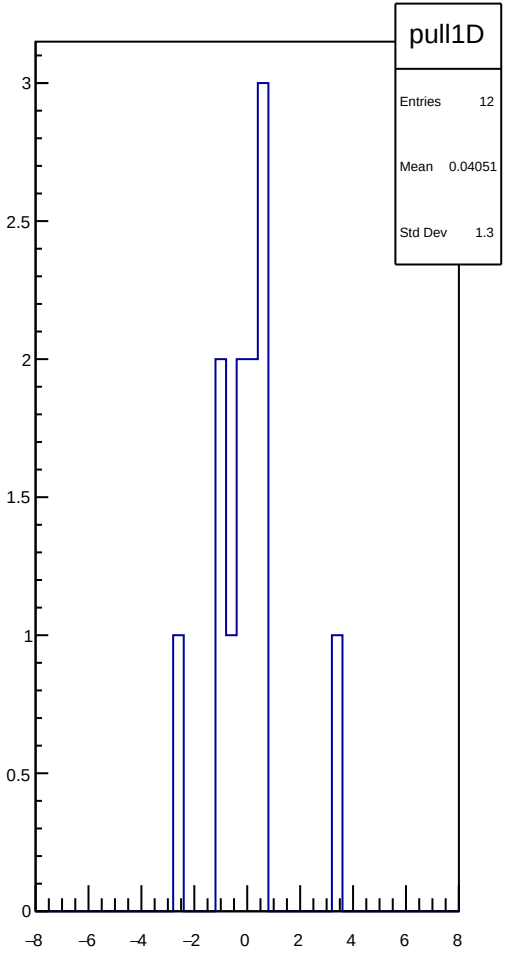

asym_left_avg_rms vs run
χ^2 / ndf 40.49 / 11
p0 716.3 ± 1.368
730
720
710
700
690
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

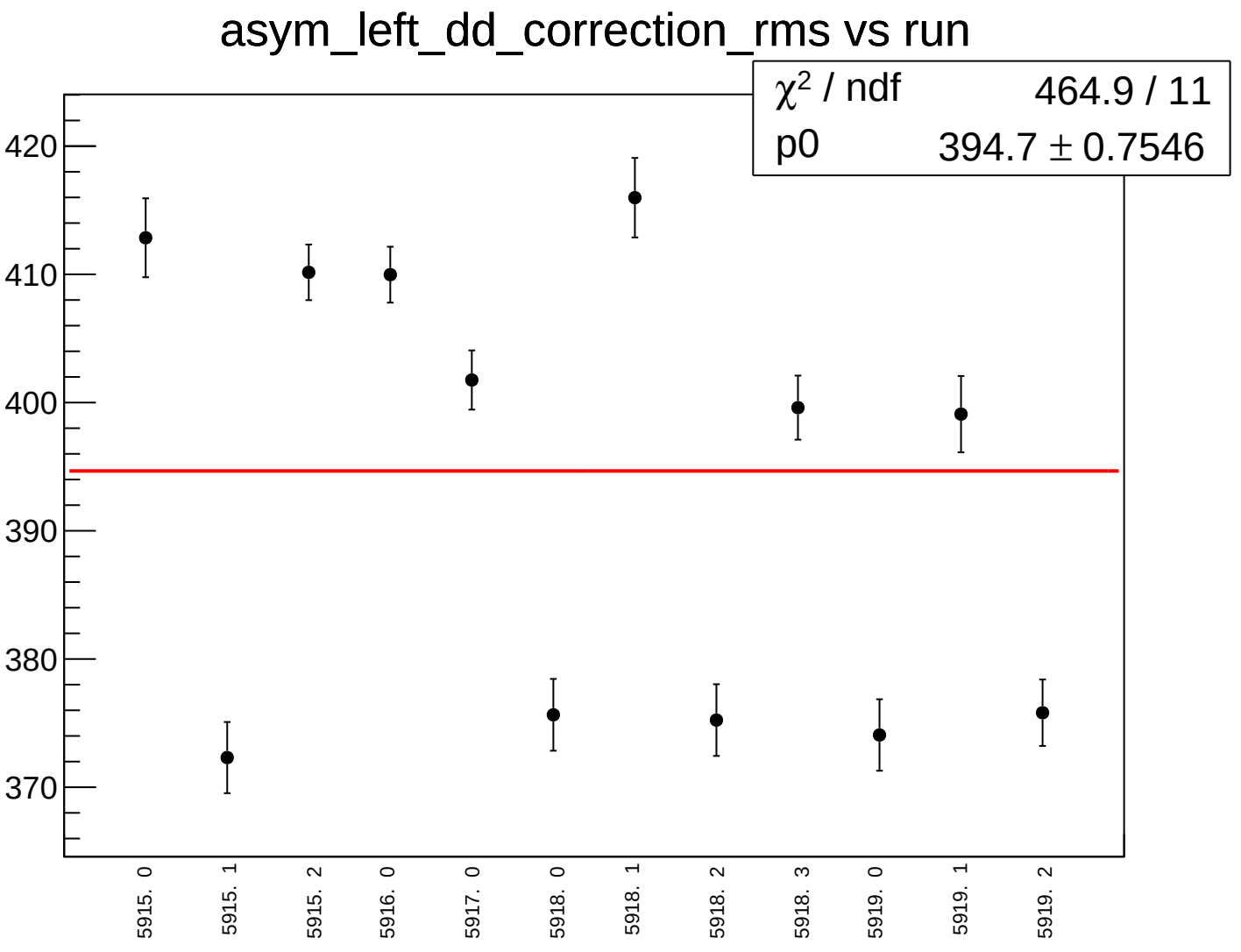

reg_asym_left_dd_mean vs run
χ² / ndf 13.76 / 11
p0 −705.4 ± 1611
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.96
Std Dev 23.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2

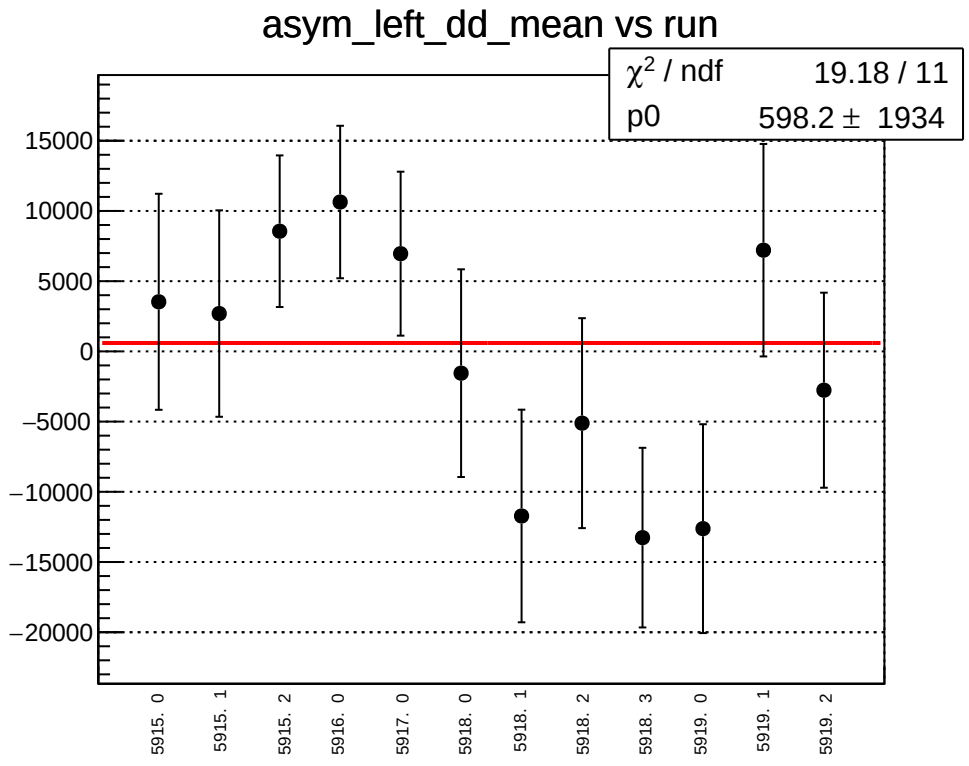

pull1D
Entries 12
Mean −0.08439
Std Dev 1.067
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

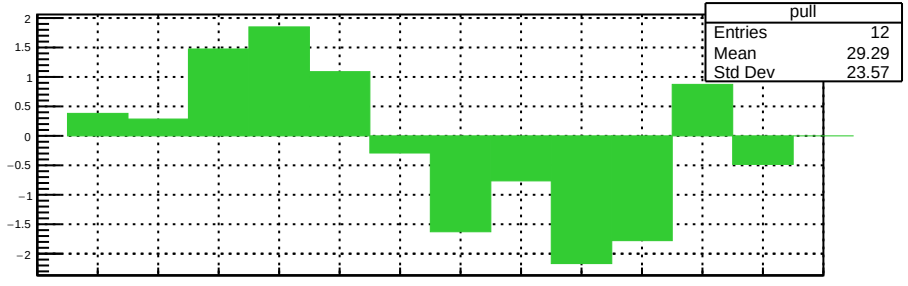

reg_asym_left_dd_rms vs run
χ² / ndf 21.57 / 11
p0 596.3 ± 1.139
610
605
600
595
590
585
580
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

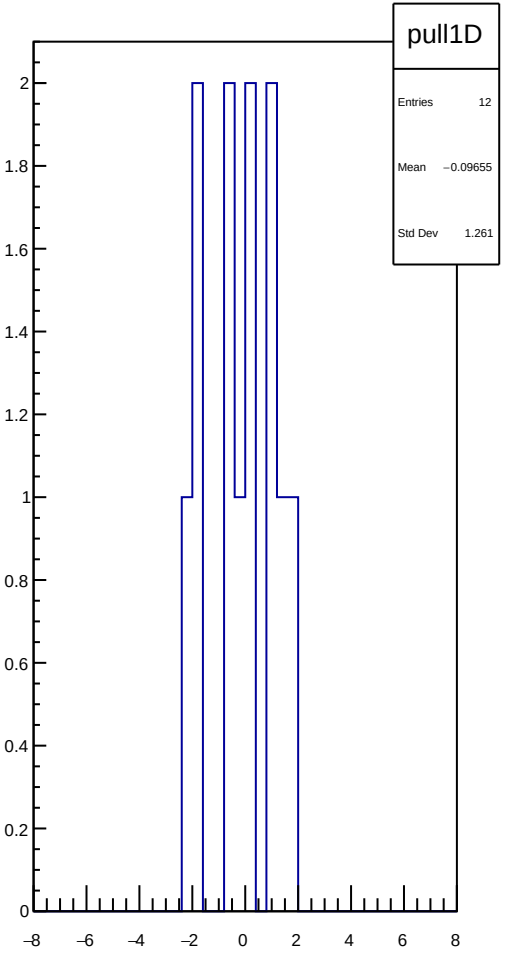

asym_left_dd_correction_mean vs run
χ² / ndf 20.3 / 11
p0 −1250 ± 1067
15000
10000
5000
0
−5000
−10000
−15000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 33.97
Std Dev 27.54
3
2
1
0
−1
−2

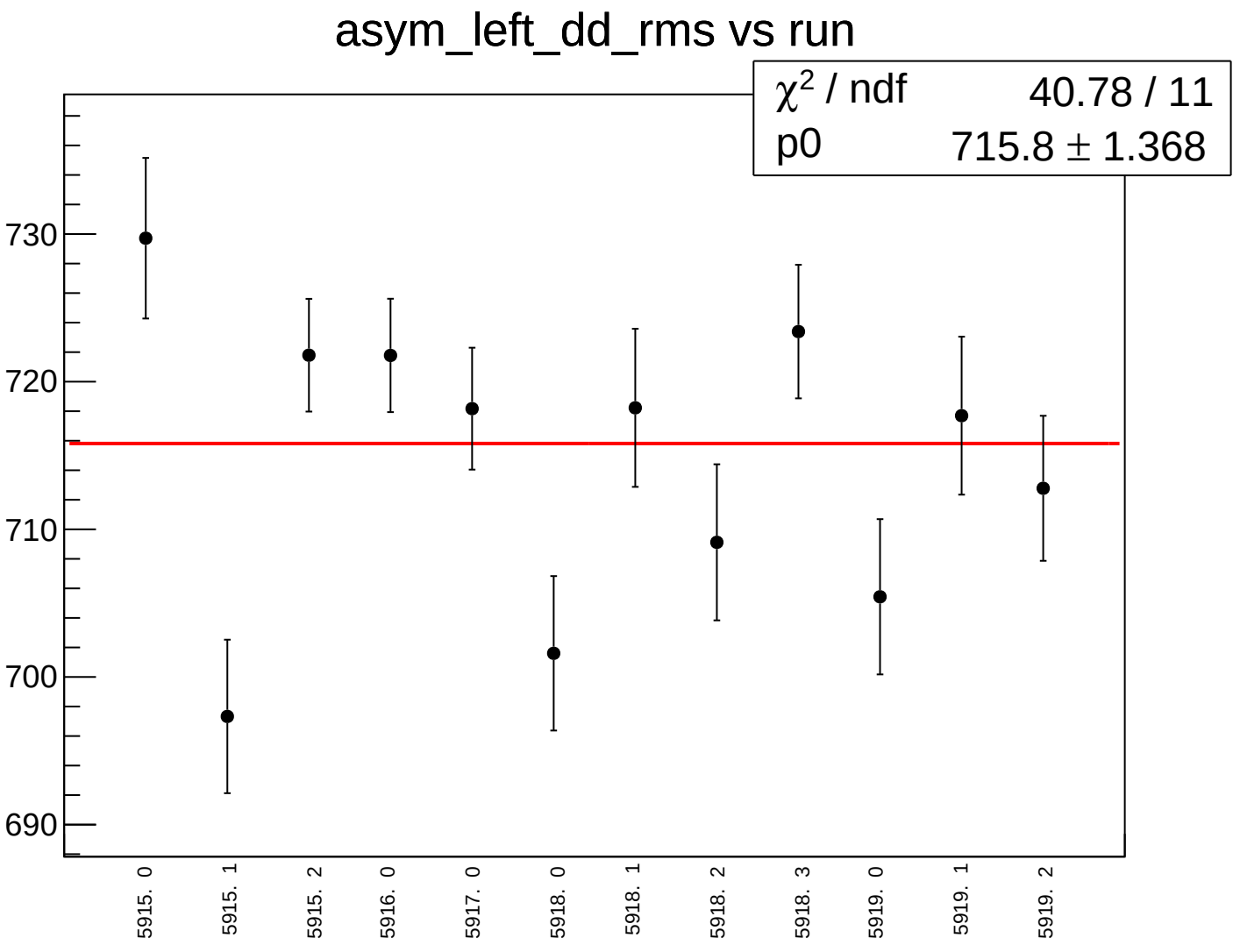

pull1D
Entries 12
Mean 0.04051
Std Dev 1.3
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

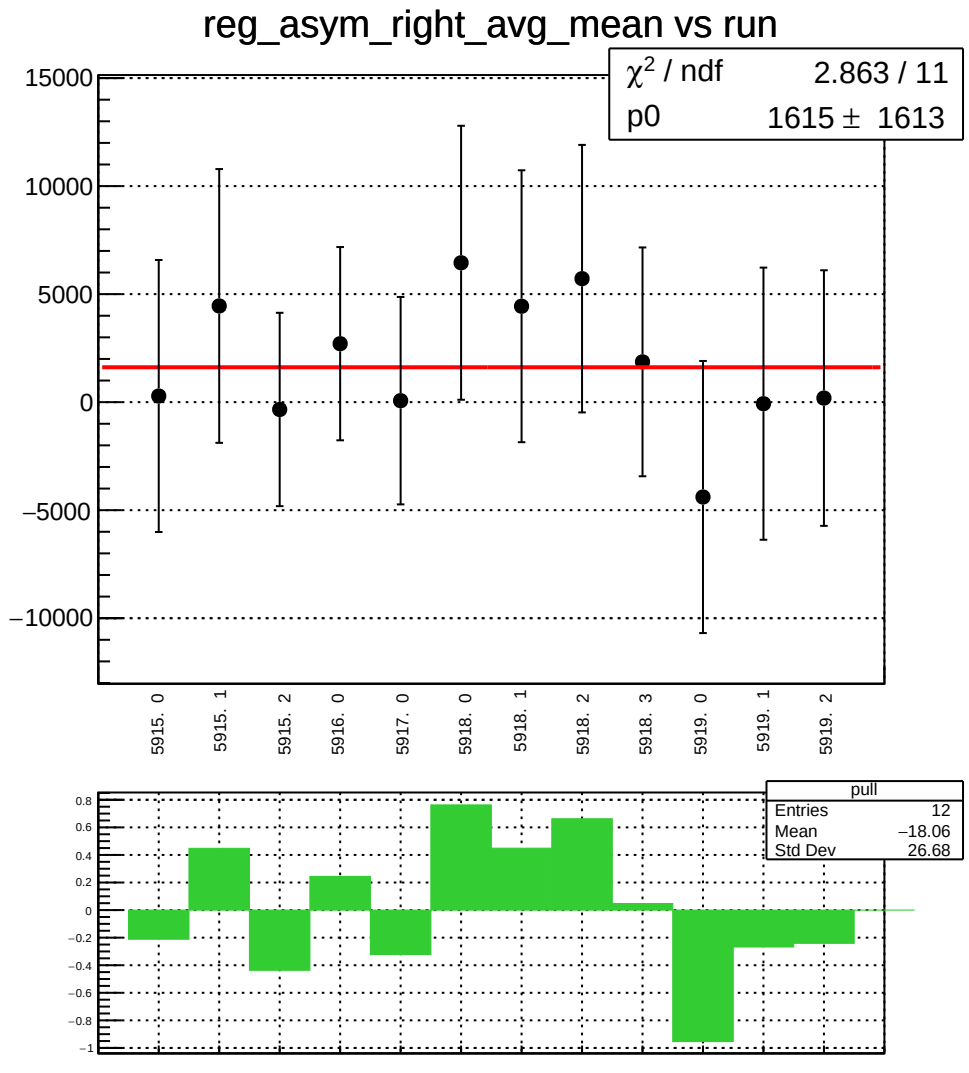

asym_left_dd_correction_rms vs run
χ² / ndf 464.9 / 11
p0 394.7 ± 0.7546
420
410
400
390
380
370
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

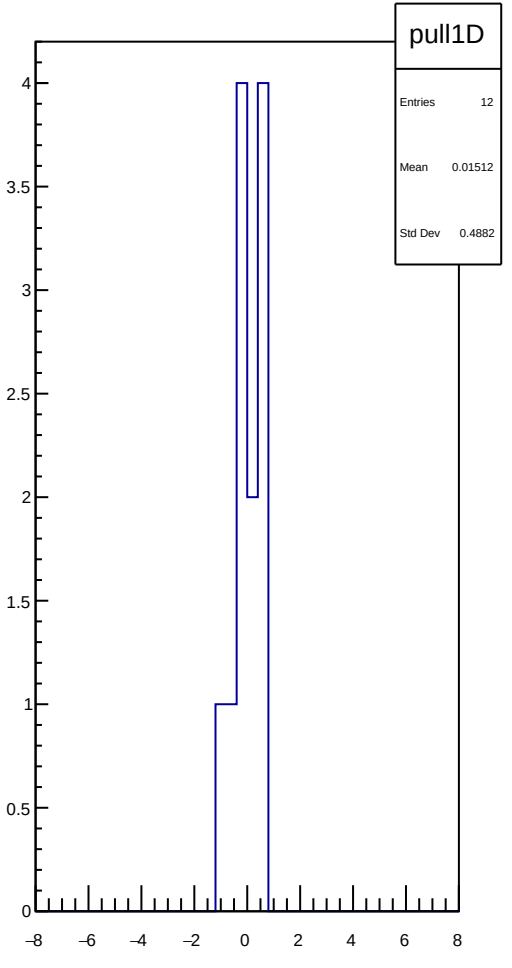

asym_left_dd_mean vs run
χ² / ndf 19.18 / 11
p0 598.2 ± 1934
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

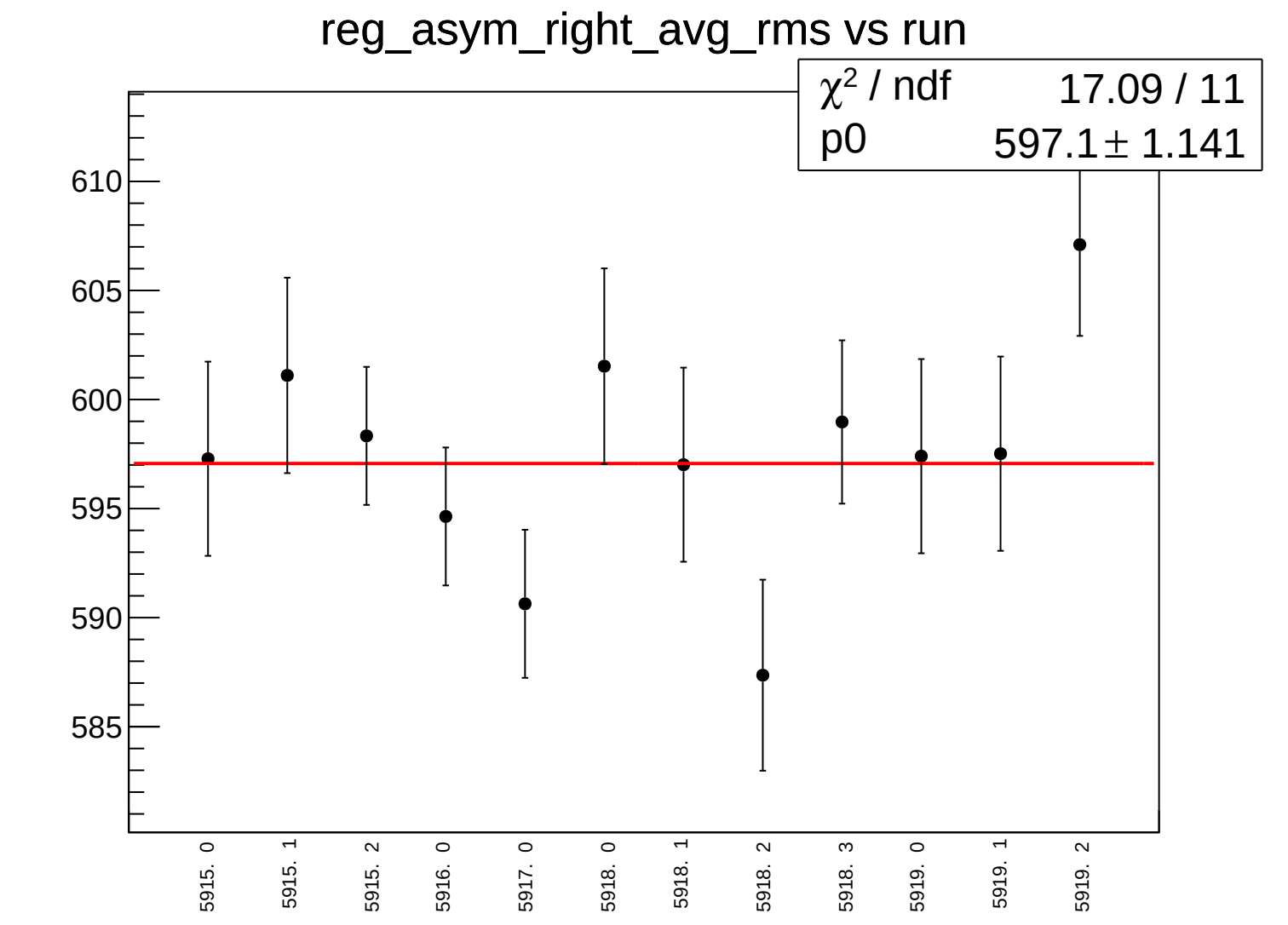

pull
Entries 12
Mean 29.29
Std Dev 23.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

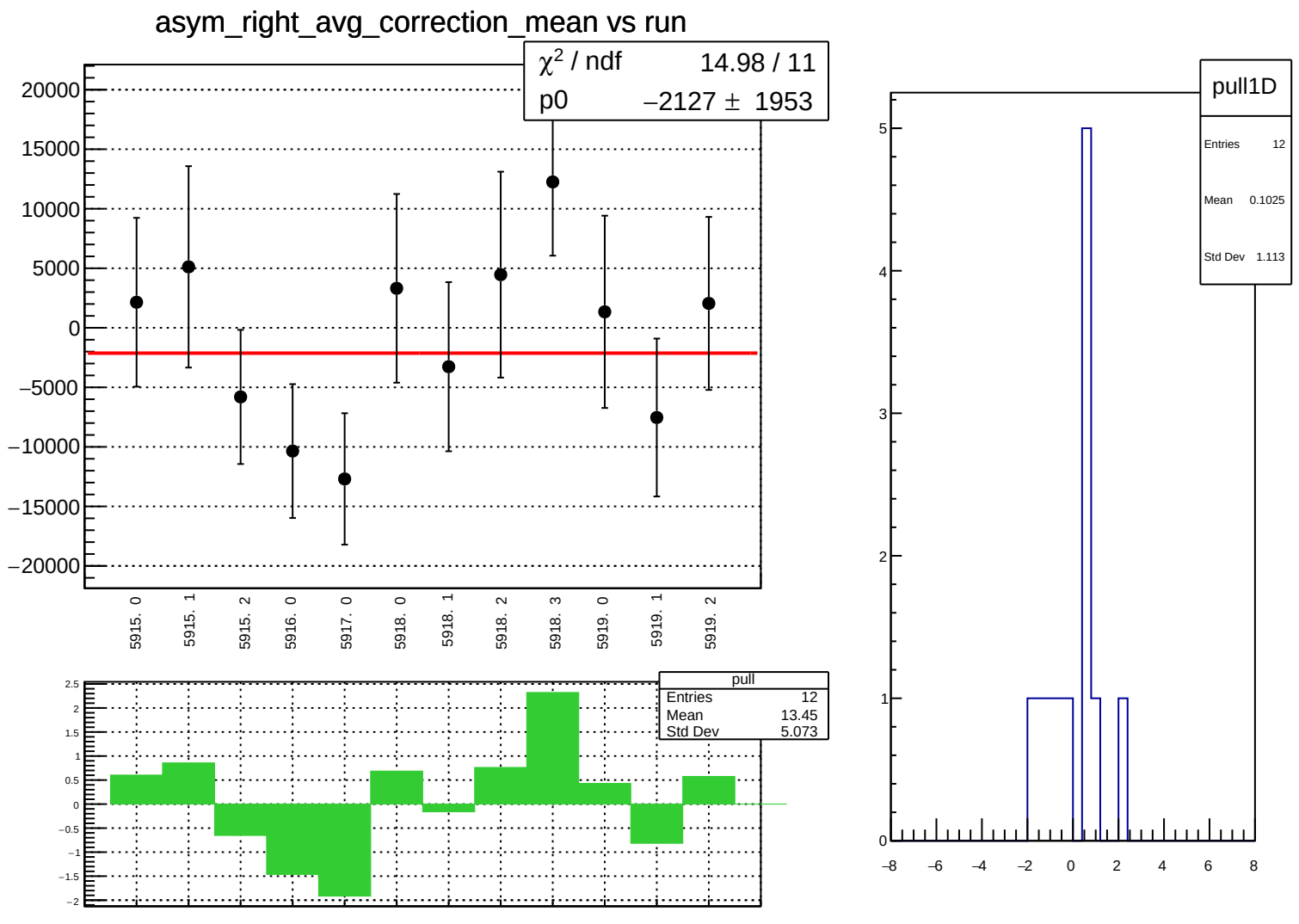

pull1D
Entries 12
Mean −0.09655
Std Dev 1.261
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

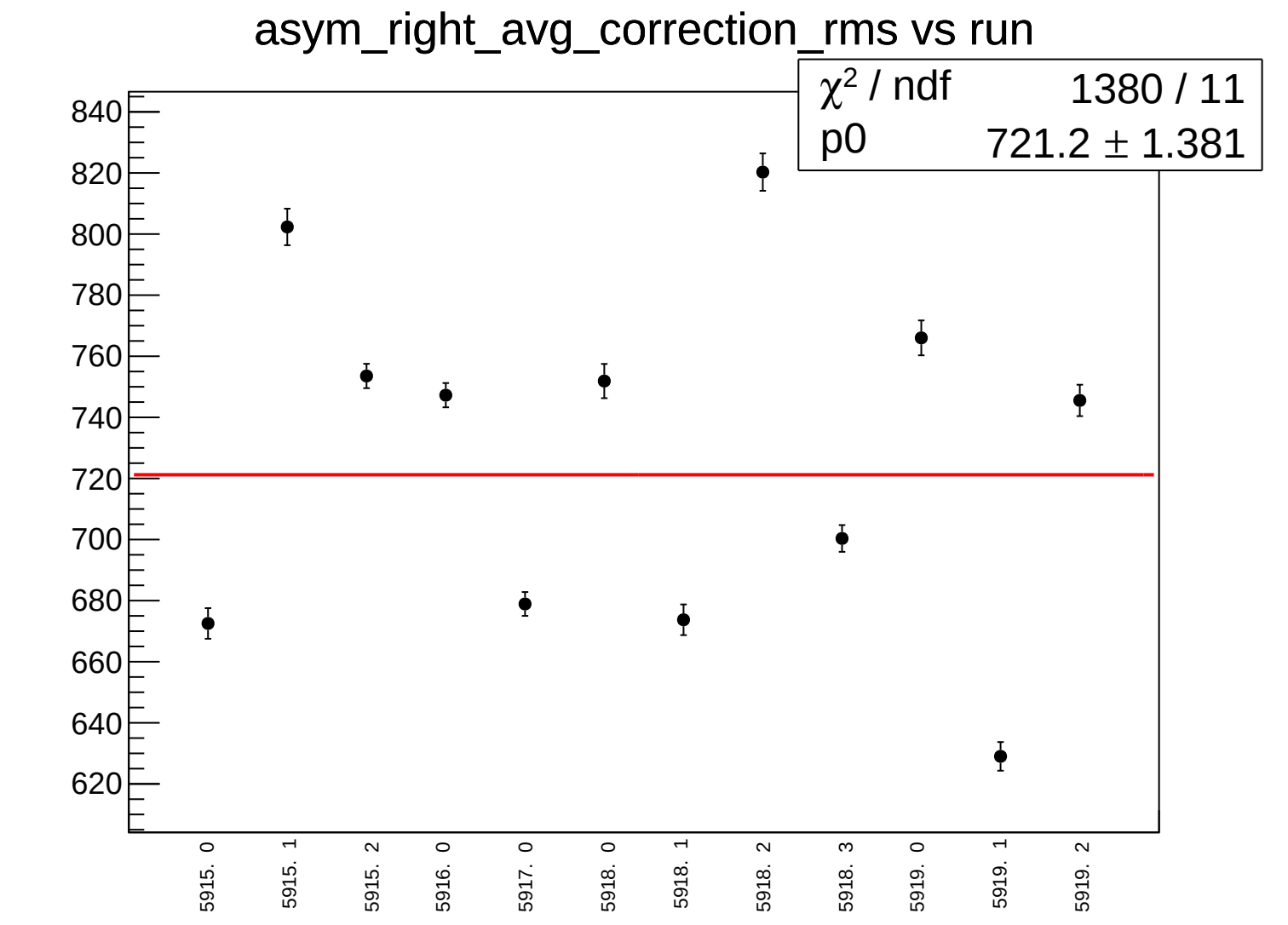

asym_left_dd_rms vs run
χ² / ndf 40.78 / 11
p0 715.8 ± 1.368
730
720
710
700
690
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

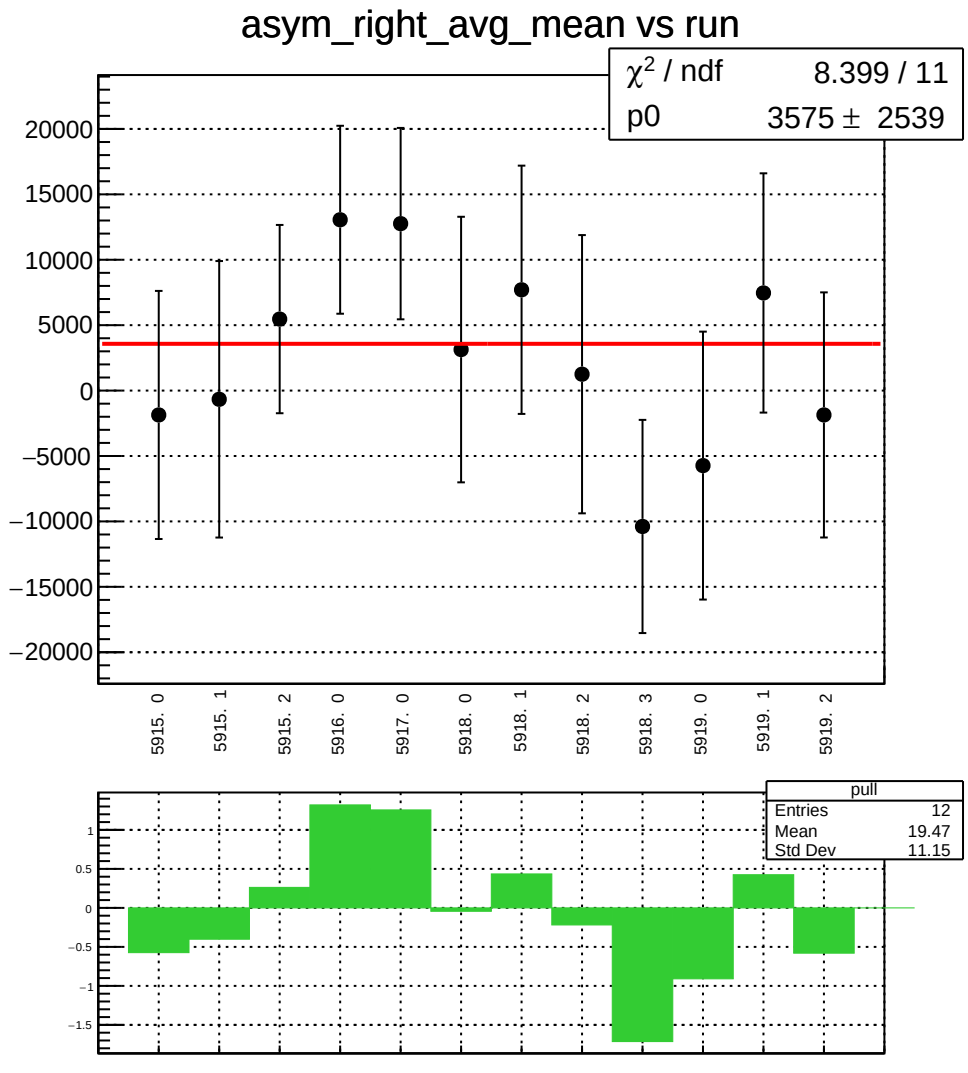

reg_asym_right_avg_mean vs run
χ² / ndf 2.863 / 11
p0 1615 ± 1613
15000
10000
5000
0
−5000
−10000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −18.06
Std Dev 26.68
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

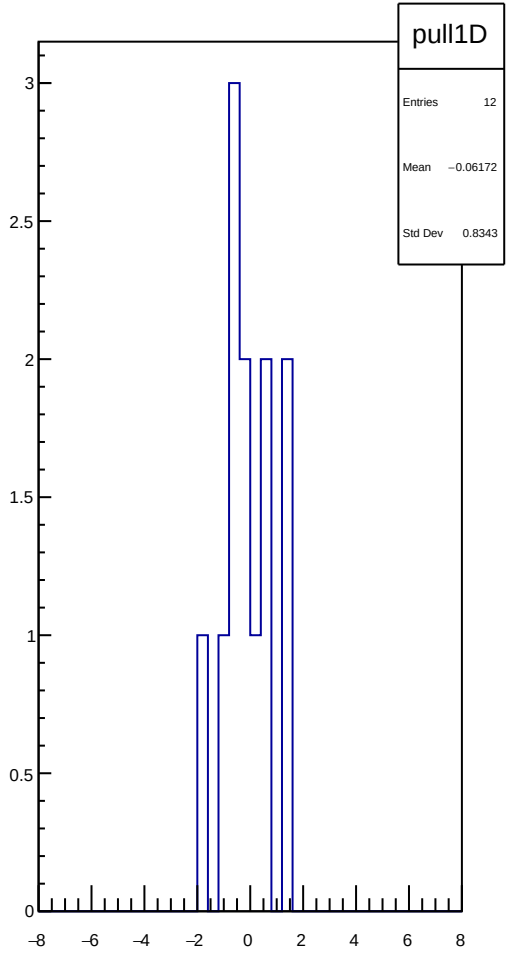

pull1D
Entries 12
Mean 0.01512
Std Dev 0.4882
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

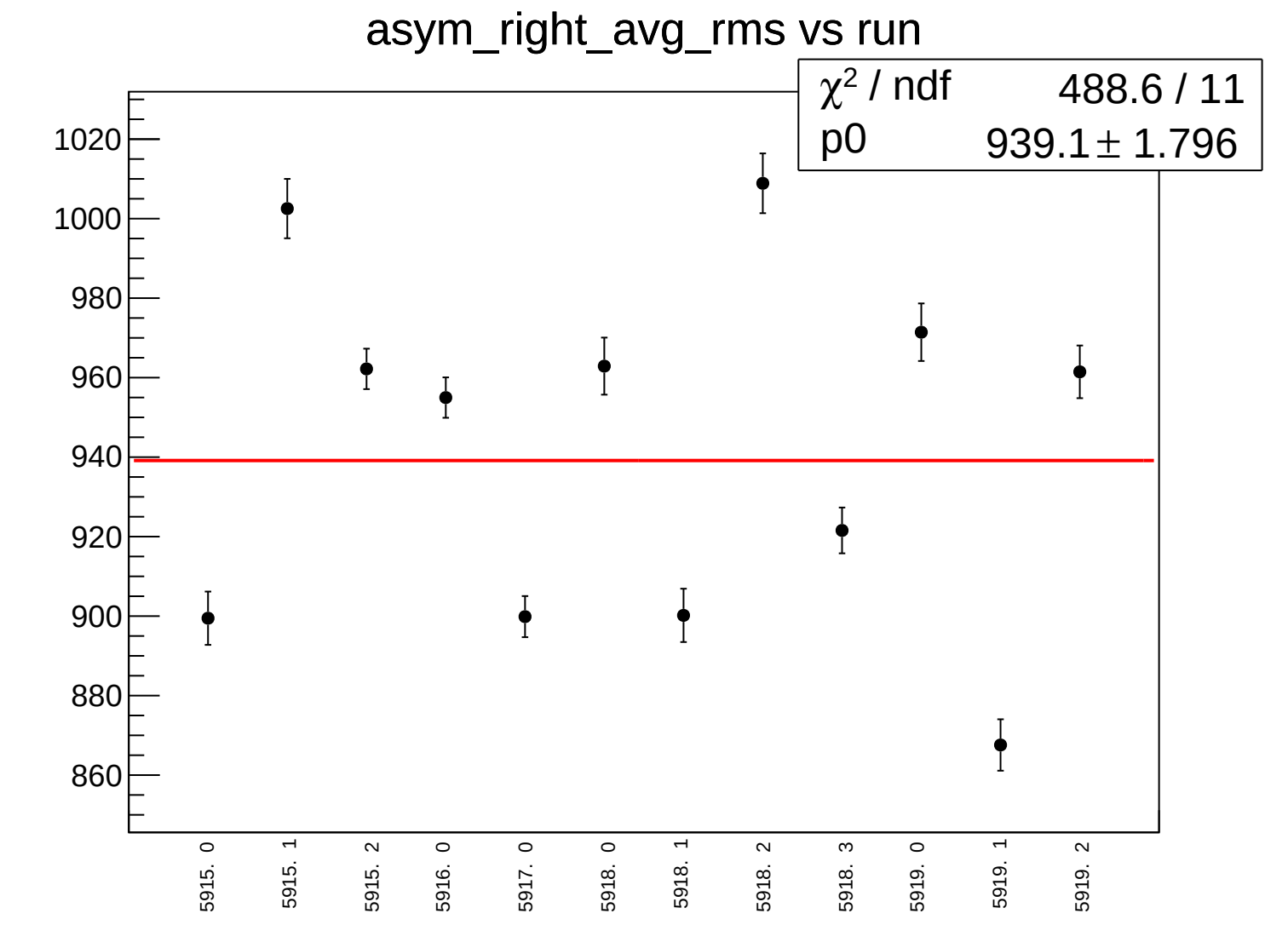

reg_asym_right_avg_rms vs run
χ² / ndf 17.09 / 11
p0 597.1 ± 1.141
610
605
600
595
590
585
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

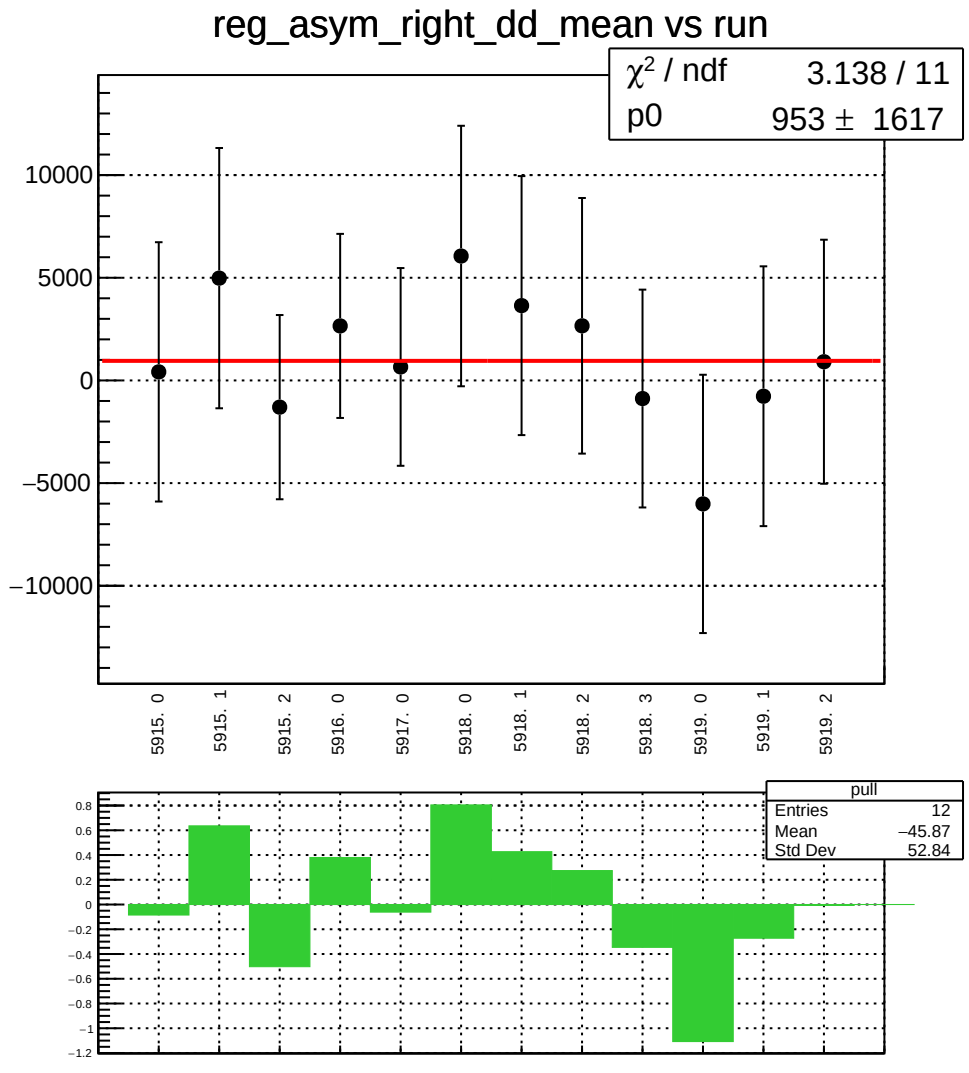

asym_right_avg_correction_mean vs run
χ² / ndf 14.98 / 11
p0 −2127 ± 1953
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.45
Std Dev 5.073
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.1025
Std Dev 1.113
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

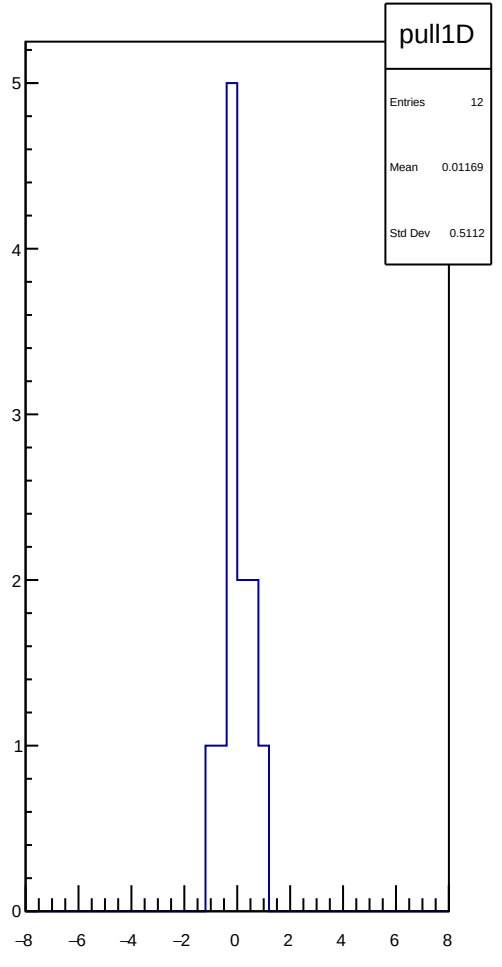

asym_right_avg_correction_rms vs run
χ² / ndf 1380 / 11
p0 721.2 ± 1.381
840
820
800
780
760
740
720
700
680
660
640
620
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

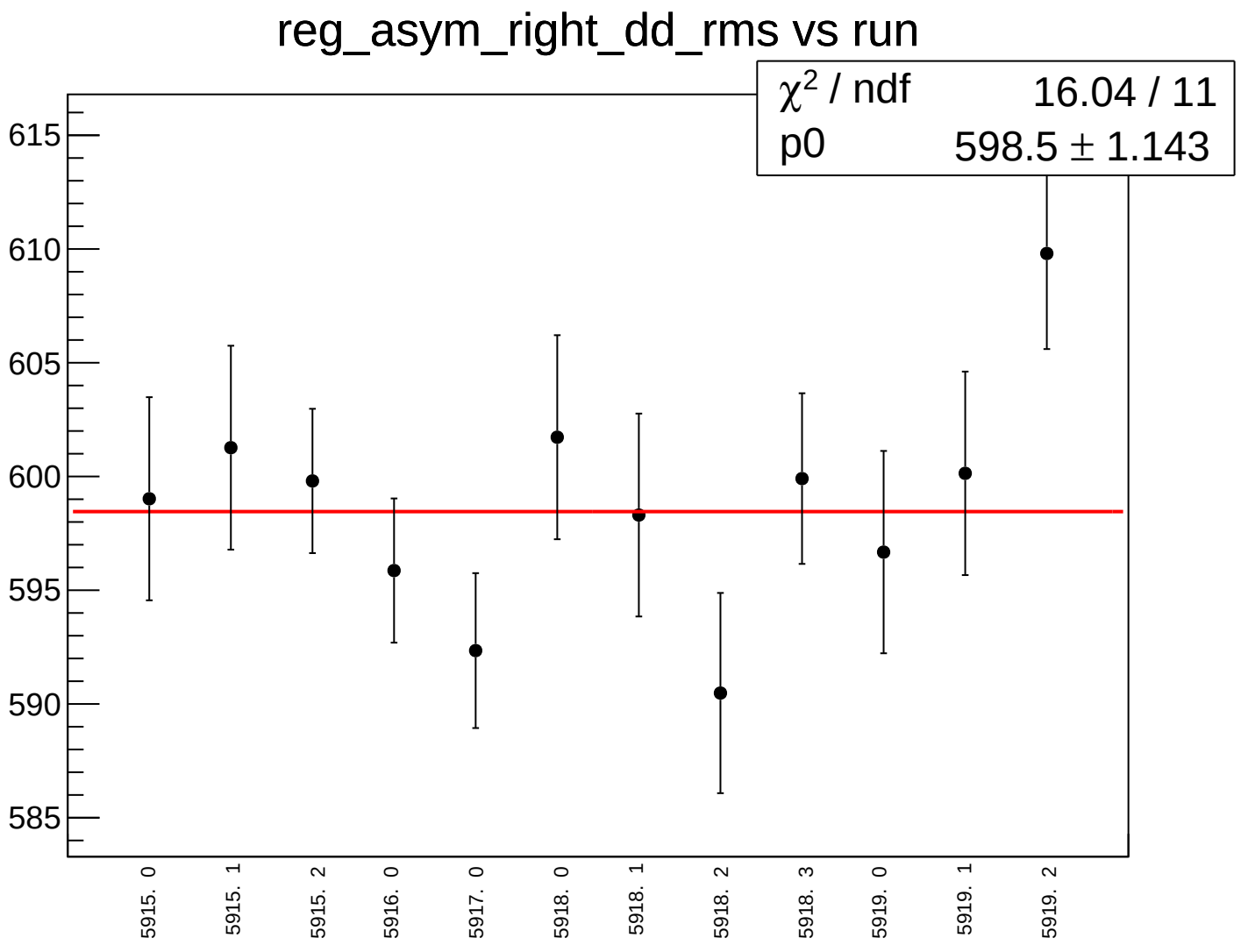

asym_right_avg_mean vs run
χ² / ndf 8.399 / 11
p0 3575 ± 2539
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.47
Std Dev 11.15
1
0.5
0
−0.5
−1
−1.5

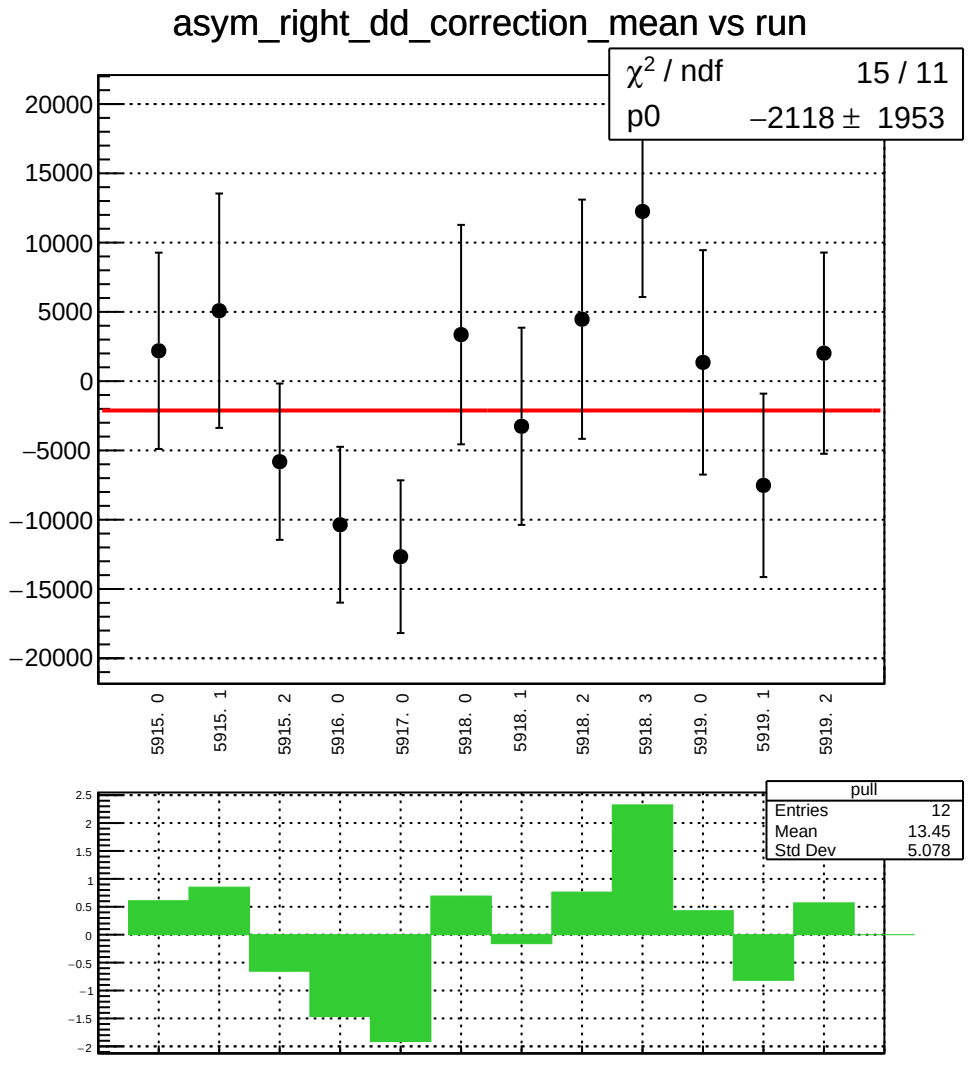

pull1D
Entries 12
Mean −0.06172
Std Dev 0.8343
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

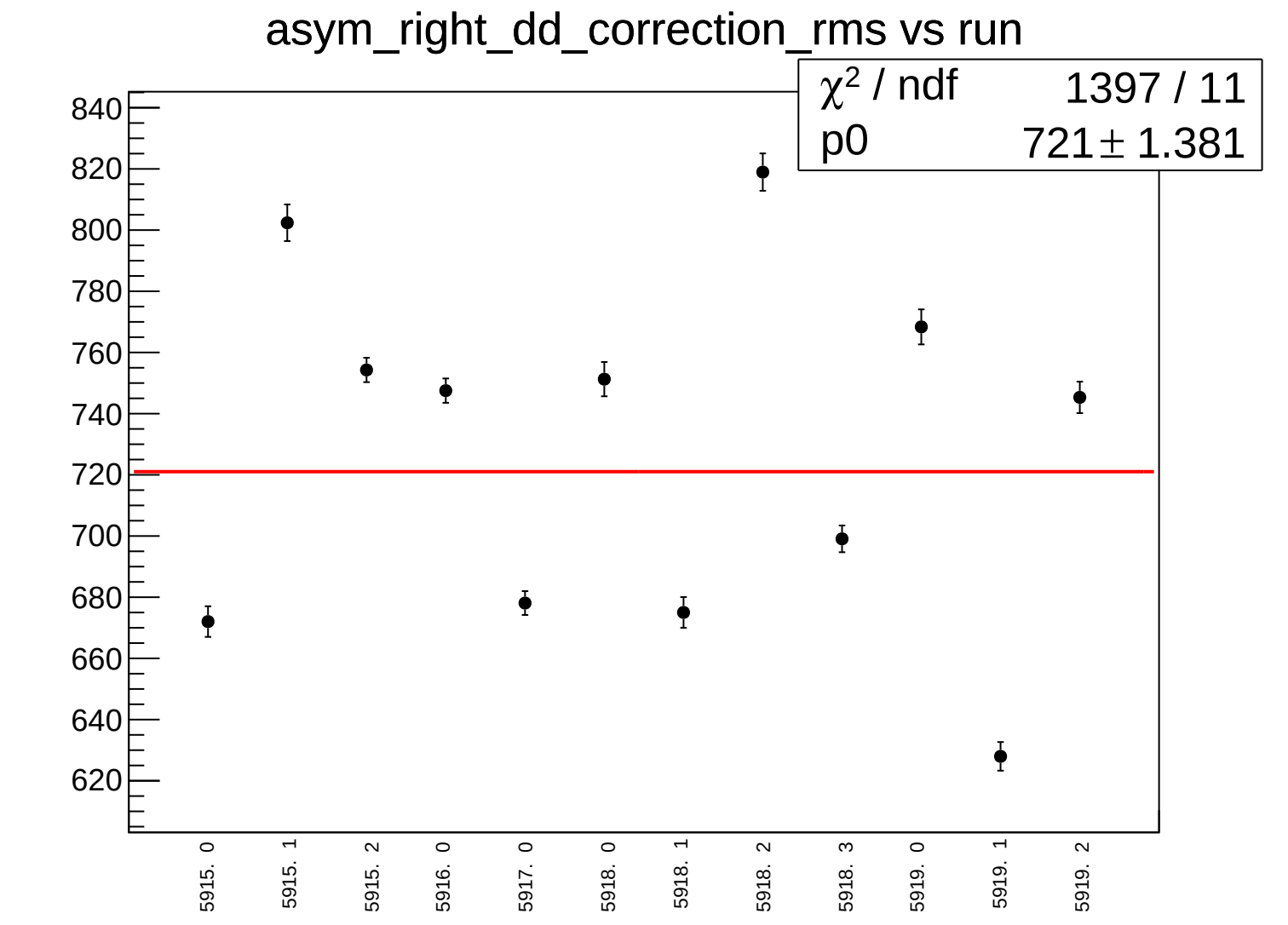

asym_right_avg_rms vs run
χ² / ndf 488.6 / 11
p0 939.1 ± 1.796
1020
1000
980
960
940
920
900
880
860
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

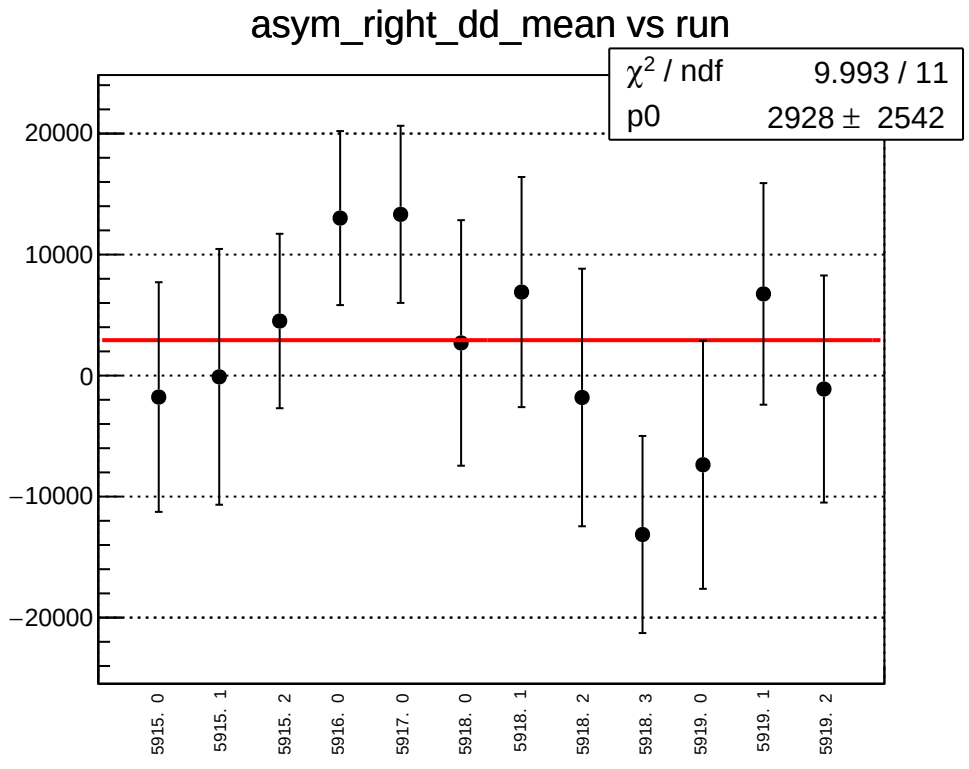

reg_asym_right_dd_mean vs run
χ² / ndf 3.138 / 11
p0 953 ± 1617
10000
5000
0
−5000
−10000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −45.87
Std Dev 52.84
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

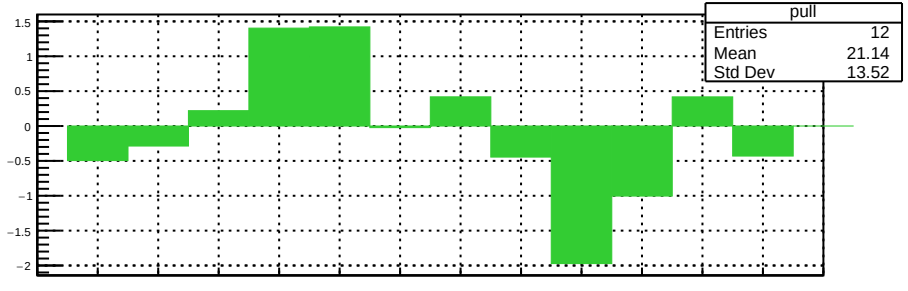

pull1D
Entries 12
Mean 0.01169
Std Dev 0.5112
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

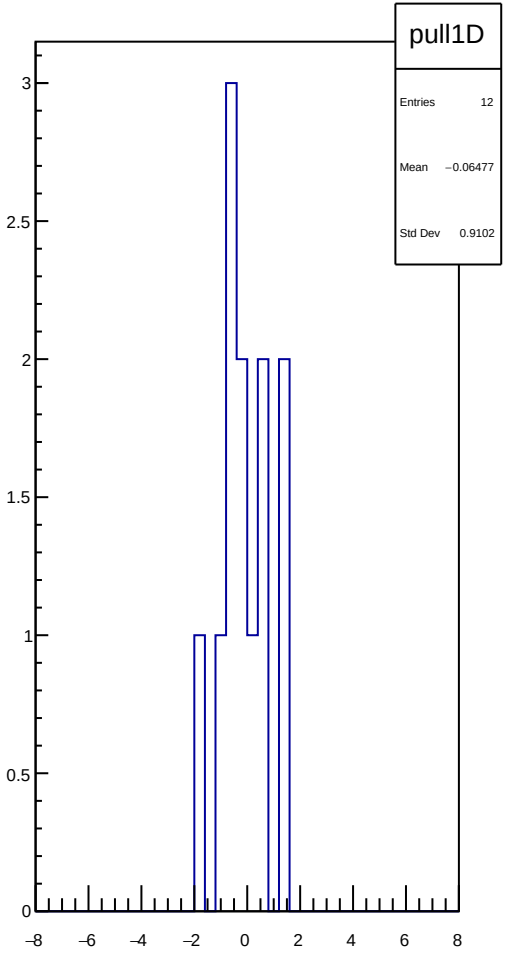

reg_asym_right_dd_rms vs run
χ² / ndf 16.04 / 11
p0 598.5 ± 1.143
615
610
605
600
595
590
585
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

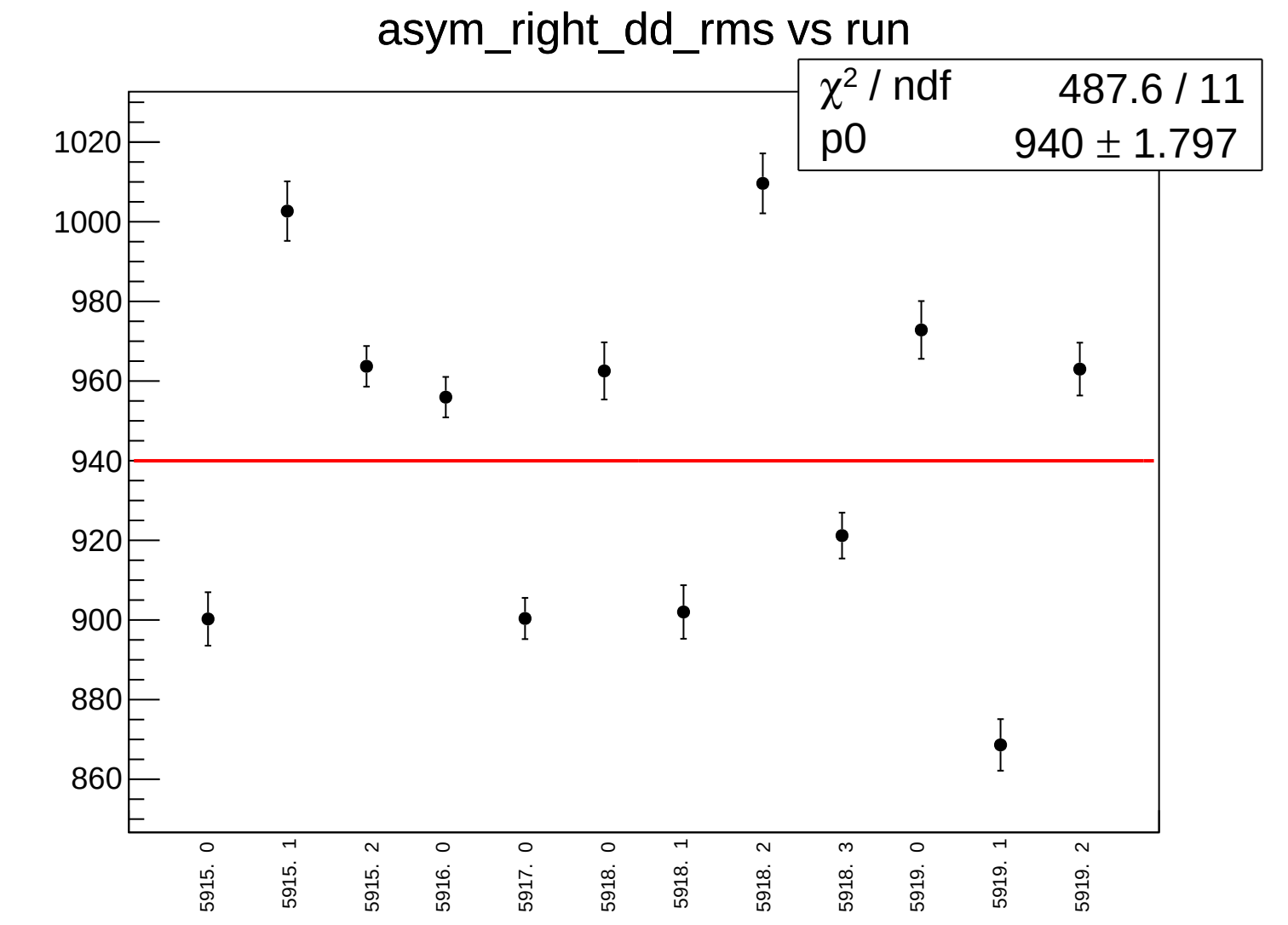

asym_right_dd_correction_mean vs run
χ² / ndf 15 / 11
p0 −2118 ± 1953
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.45
Std Dev 5.078
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.1023
Std Dev 1.113
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

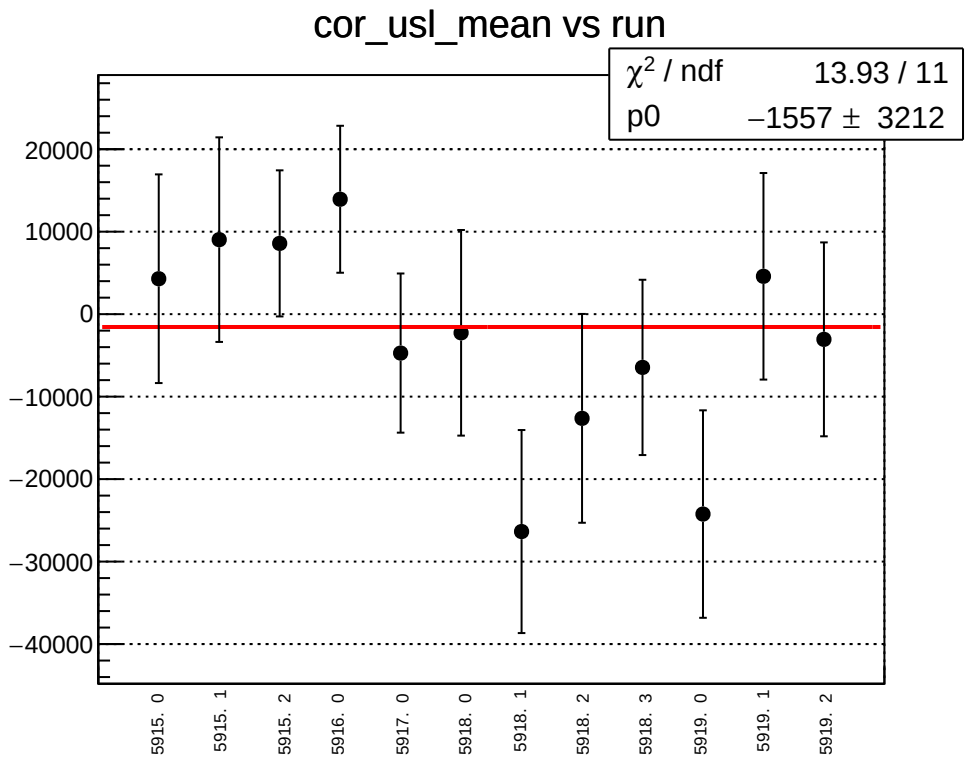

asym_right_dd_correction_rms vs run
χ² / ndf 1397 / 11
p0 721 ± 1.381
840
820
800
780
760
740
720
700
680
660
640
620
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

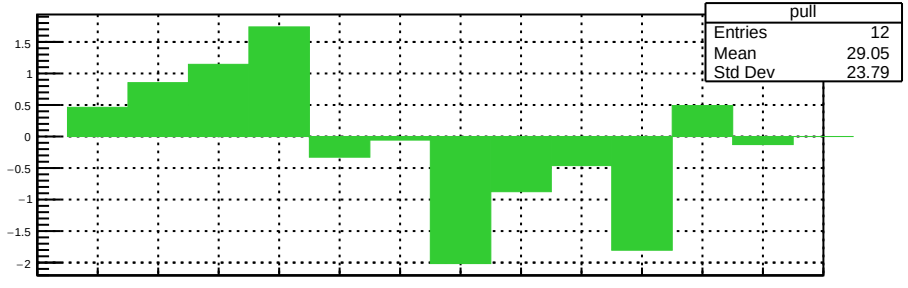

asym_right_dd_mean vs run
χ² / ndf 9.993 / 11
p0 2928 ± 2542
20000
10000
0
−10000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

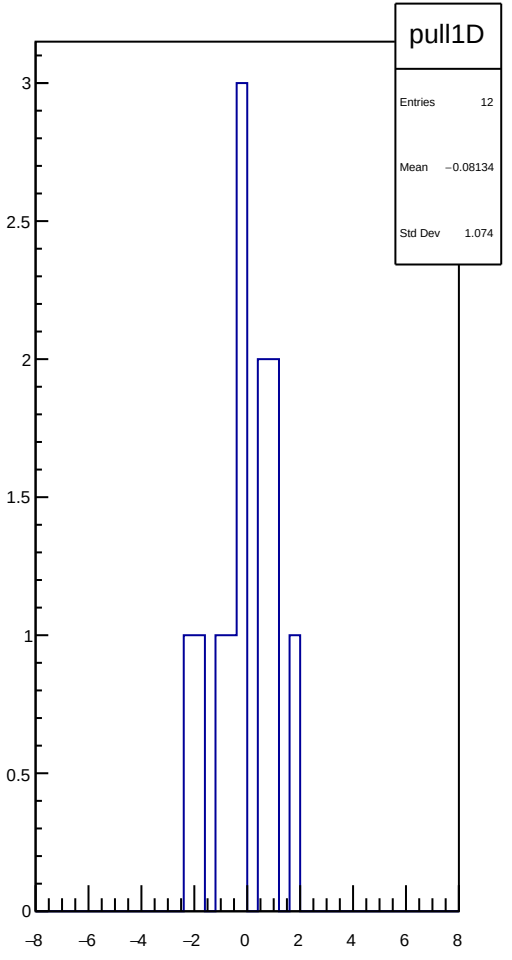

pull
Entries 12
Mean 21.14
Std Dev 13.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2

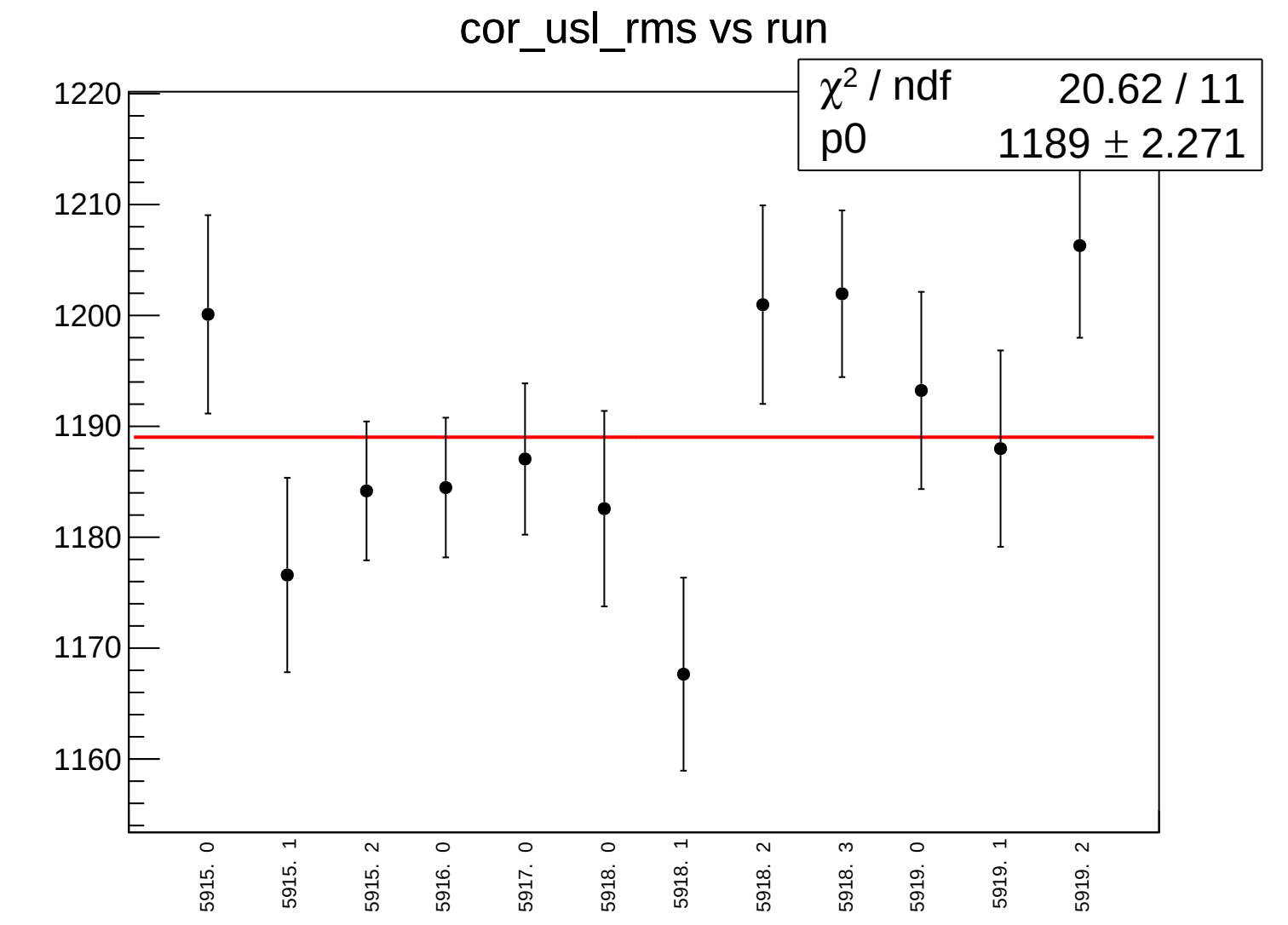

pull1D
Entries 12
Mean −0.06477
Std Dev 0.9102
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

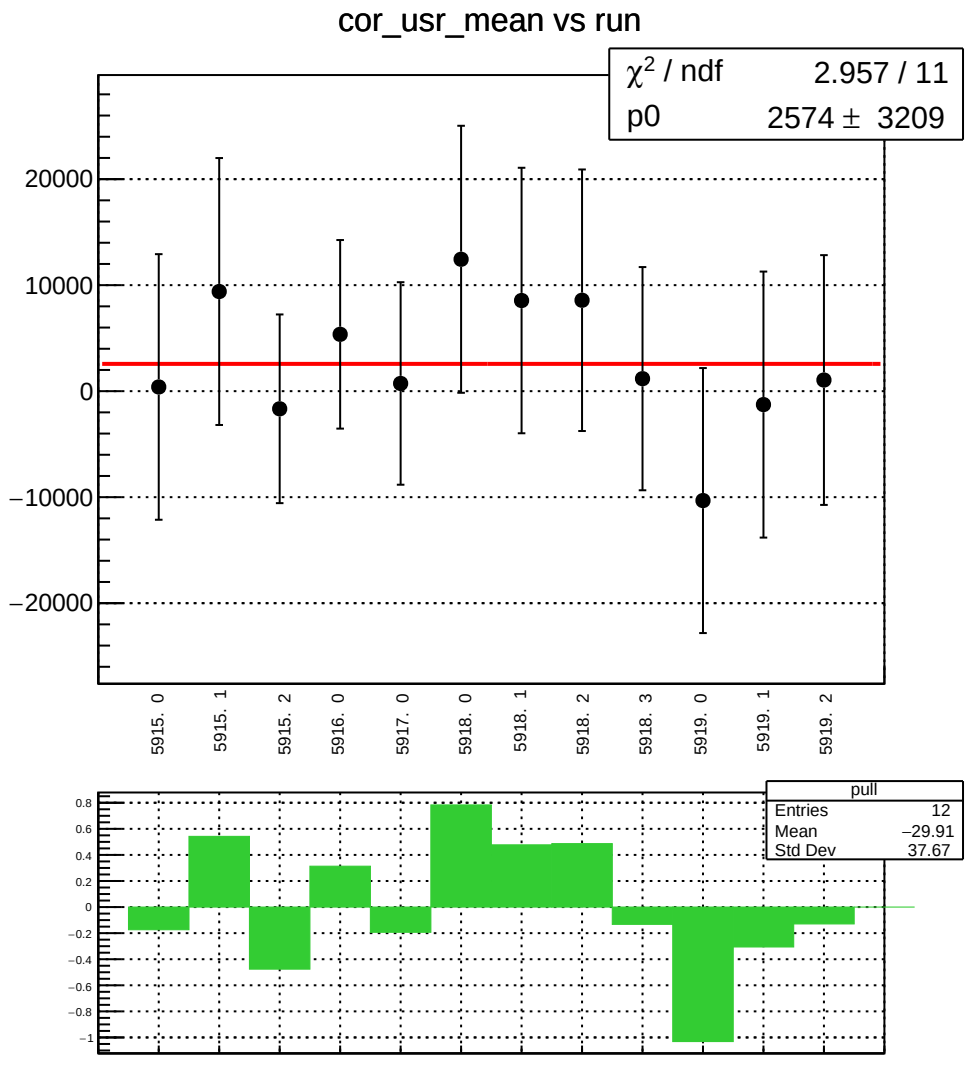

asym_right_dd_rms vs run
χ² / ndf 487.6 / 11
p0 940 ± 1.797
1020
1000
980
960
940
920
900
880
860
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

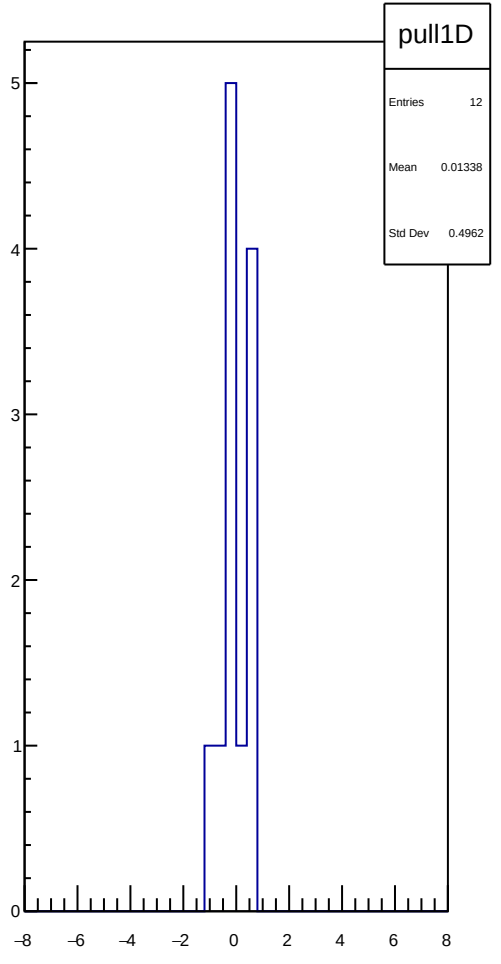

cor_usl_mean vs run
χ² / ndf 13.93 / 11
p0 −1557 ± 3212
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

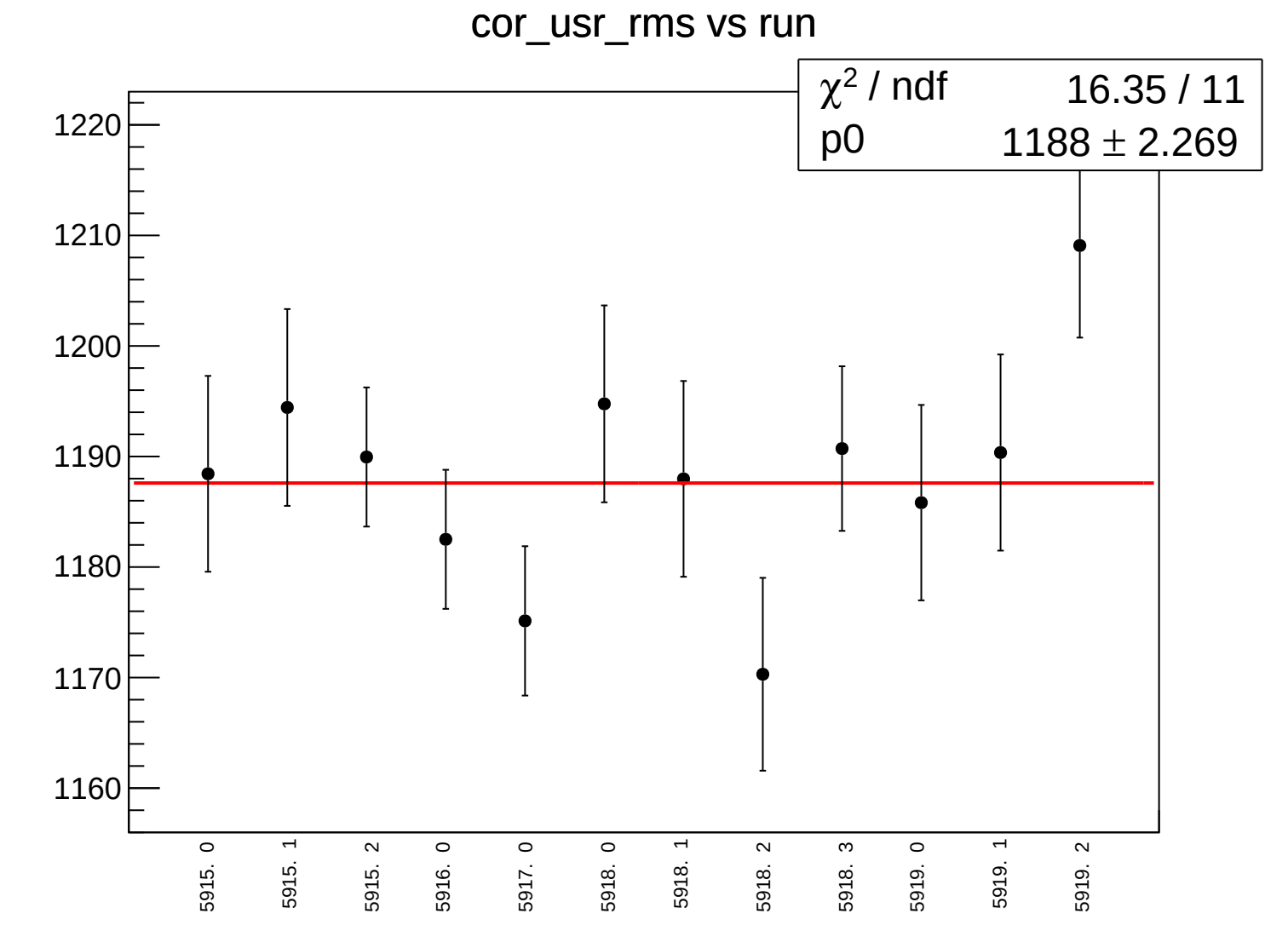

pull
Entries 12
Mean 29.05
Std Dev 23.79
1.5
1
0.5
0
−0.5
−1
−1.5
−2

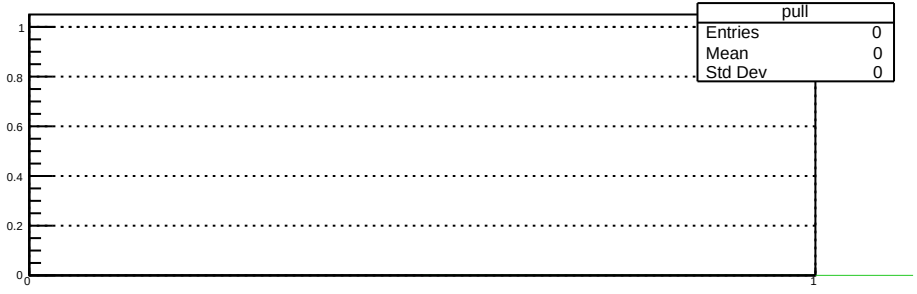

pull1D
Entries 12
Mean −0.08134
Std Dev 1.074
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

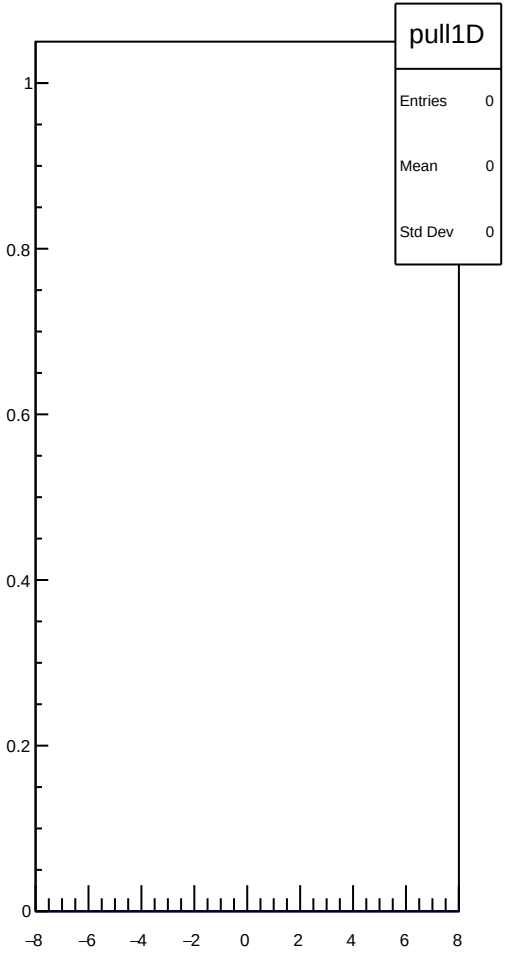

cor_usl_rms vs run
χ² / ndf 20.62 / 11
p0 1189 ± 2.271
1220
1210
1200
1190
1180
1170
1160
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

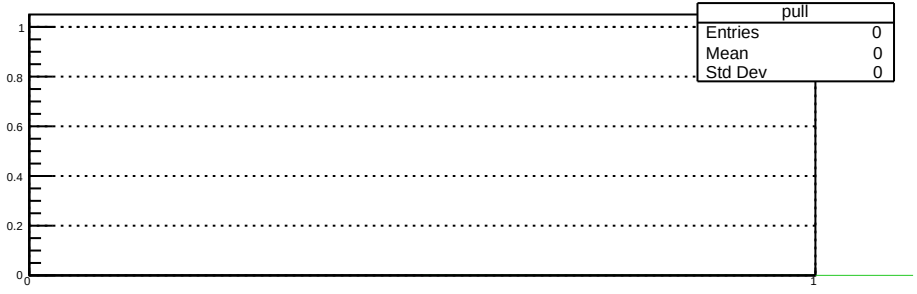

cor_usr_mean vs run
χ² / ndf 2.957 / 11
p0 2574 ± 3209
20000
10000
0
−10000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −29.91
Std Dev 37.67
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

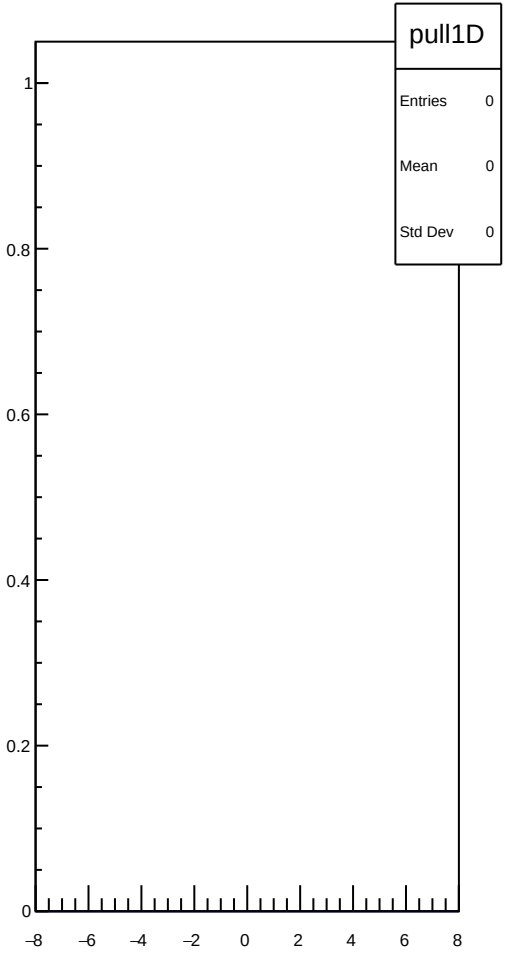

pull1D
Entries 12
Mean 0.01338
Std Dev 0.4962
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

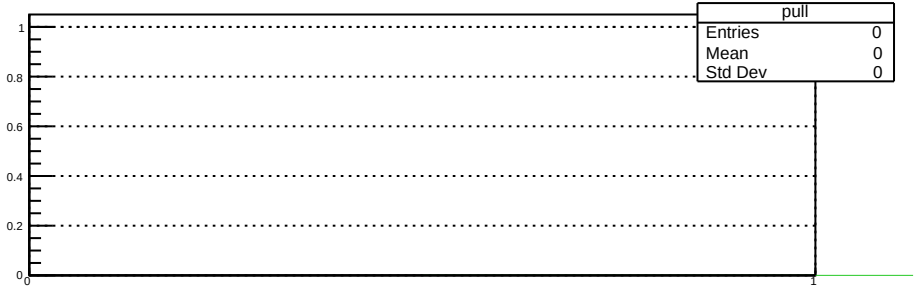

cor_usr_rms vs run
χ² / ndf 16.35 / 11
p0 1188 ± 2.269
1220
1210
1200
1190
1180
1170
1160
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

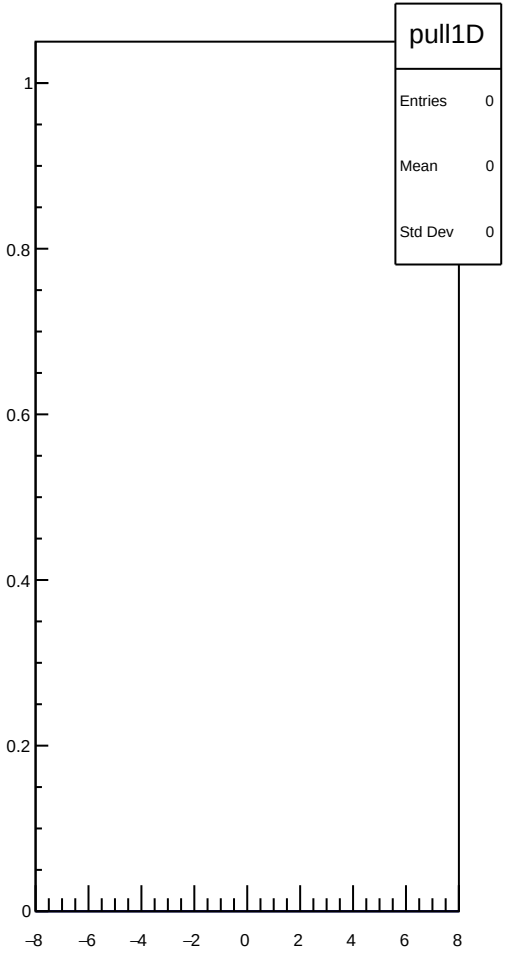

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

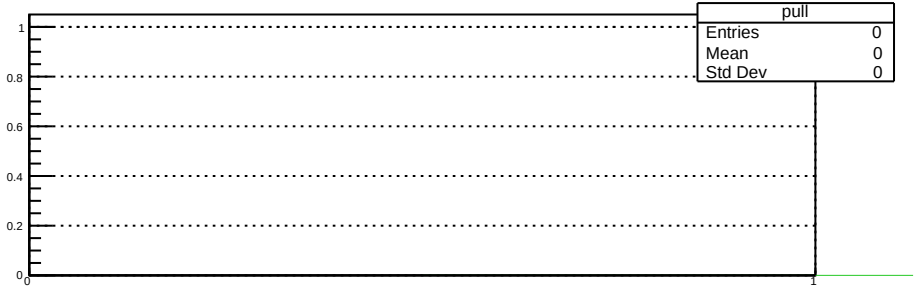

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

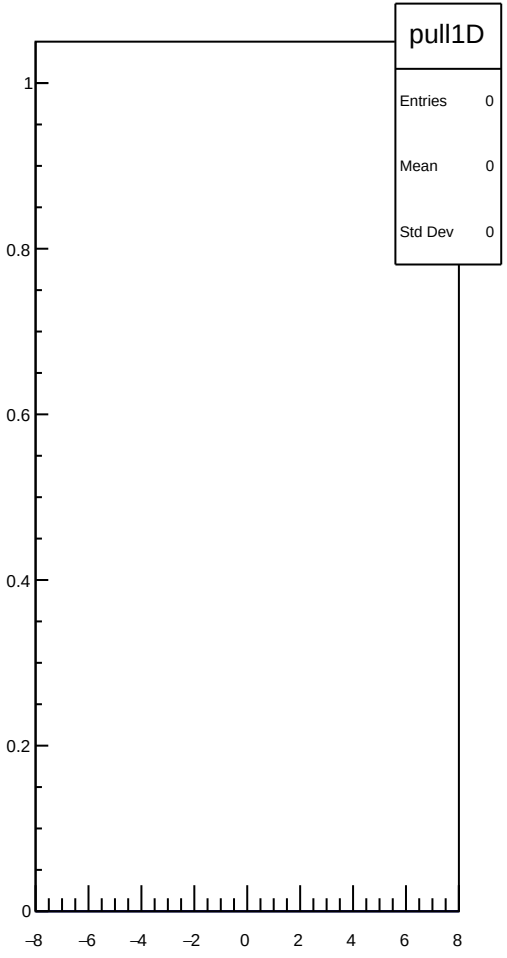

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

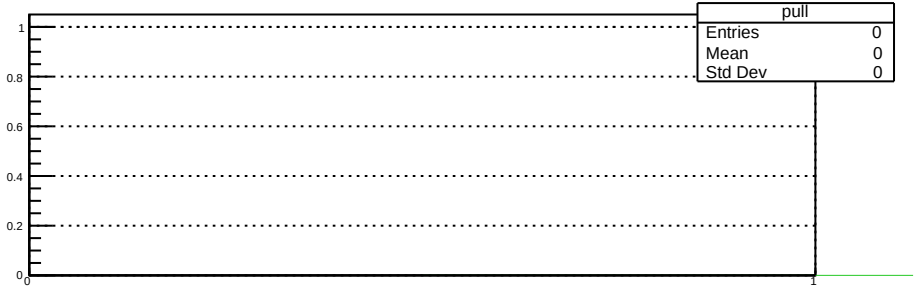

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

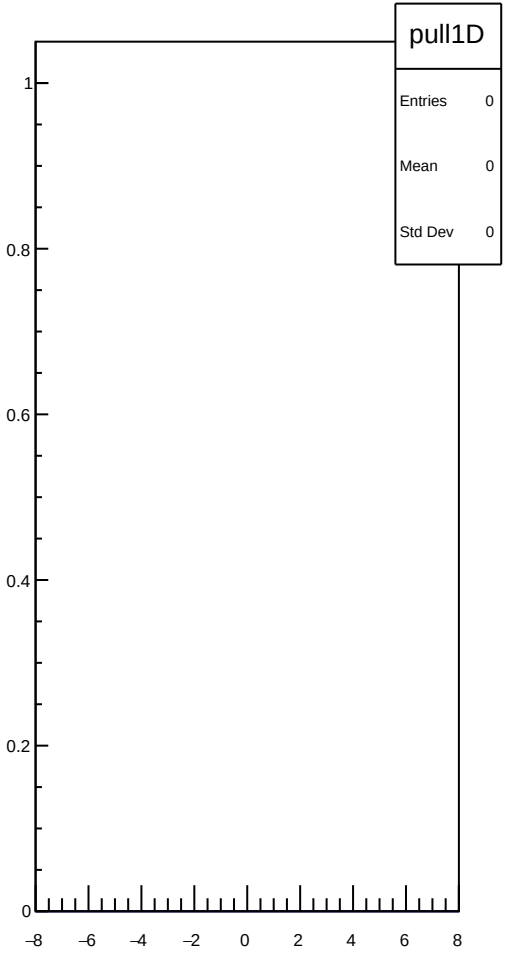

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

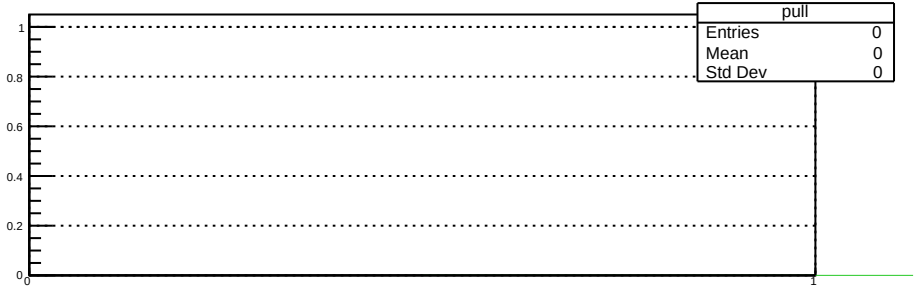

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

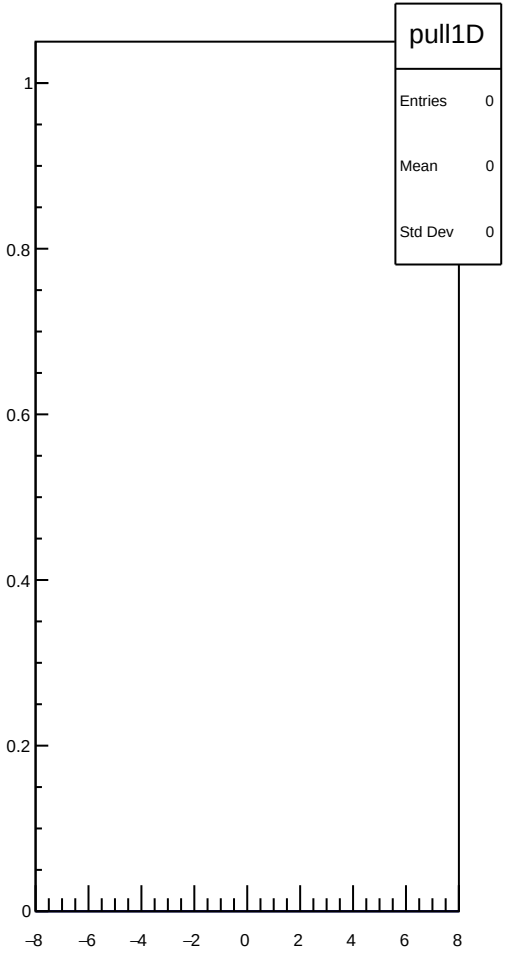

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

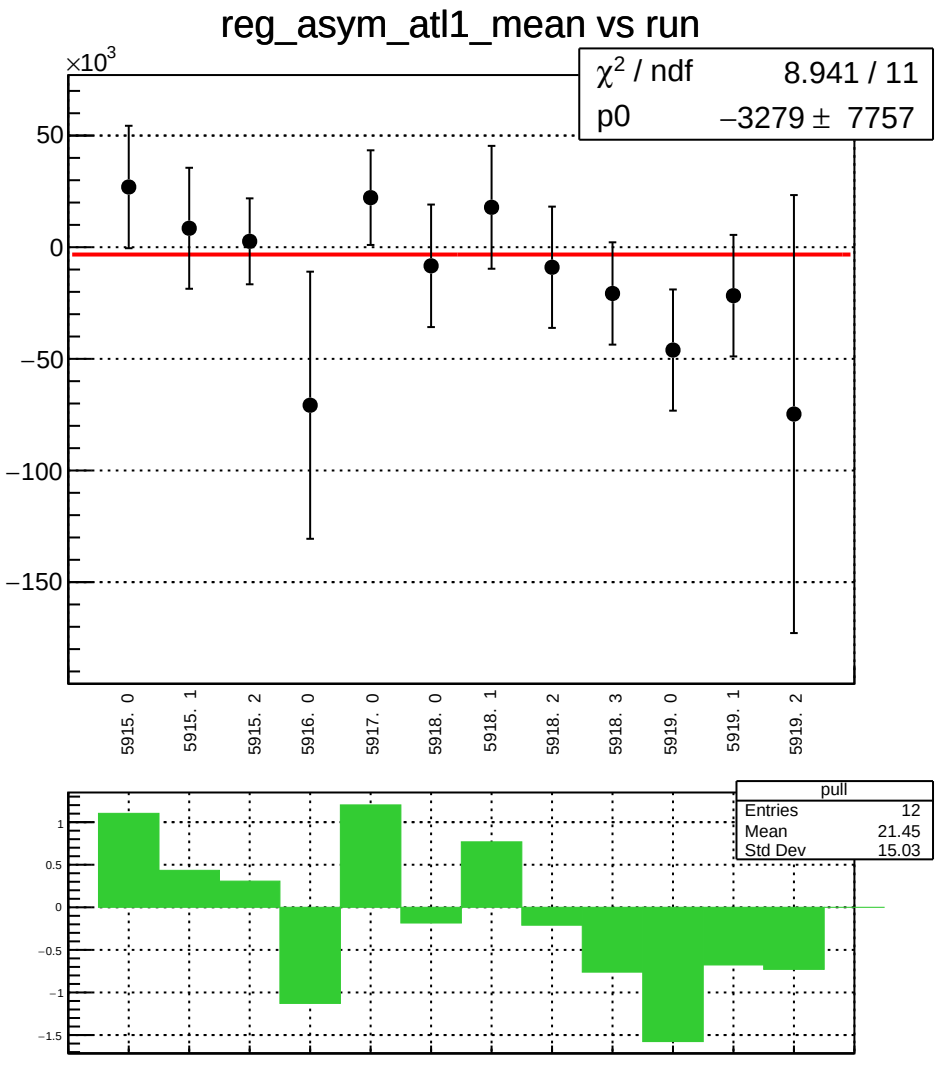

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

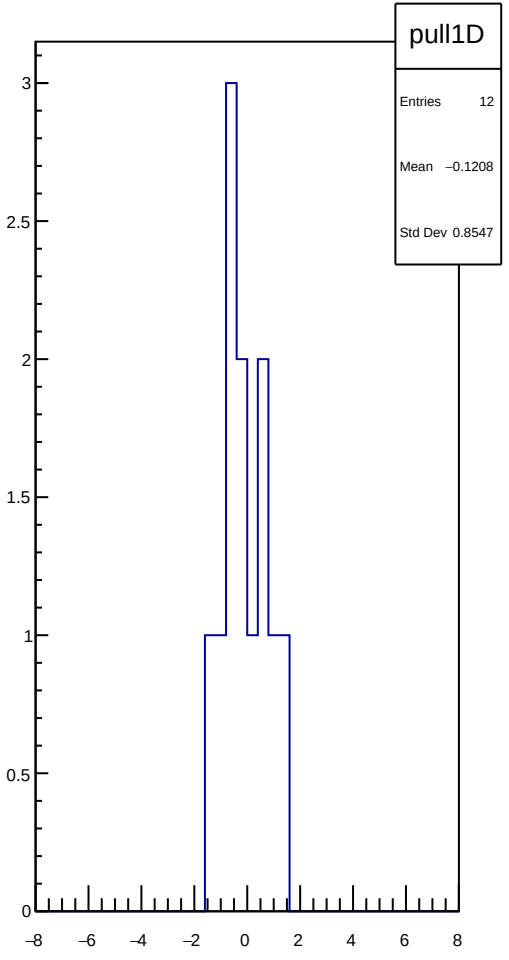

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

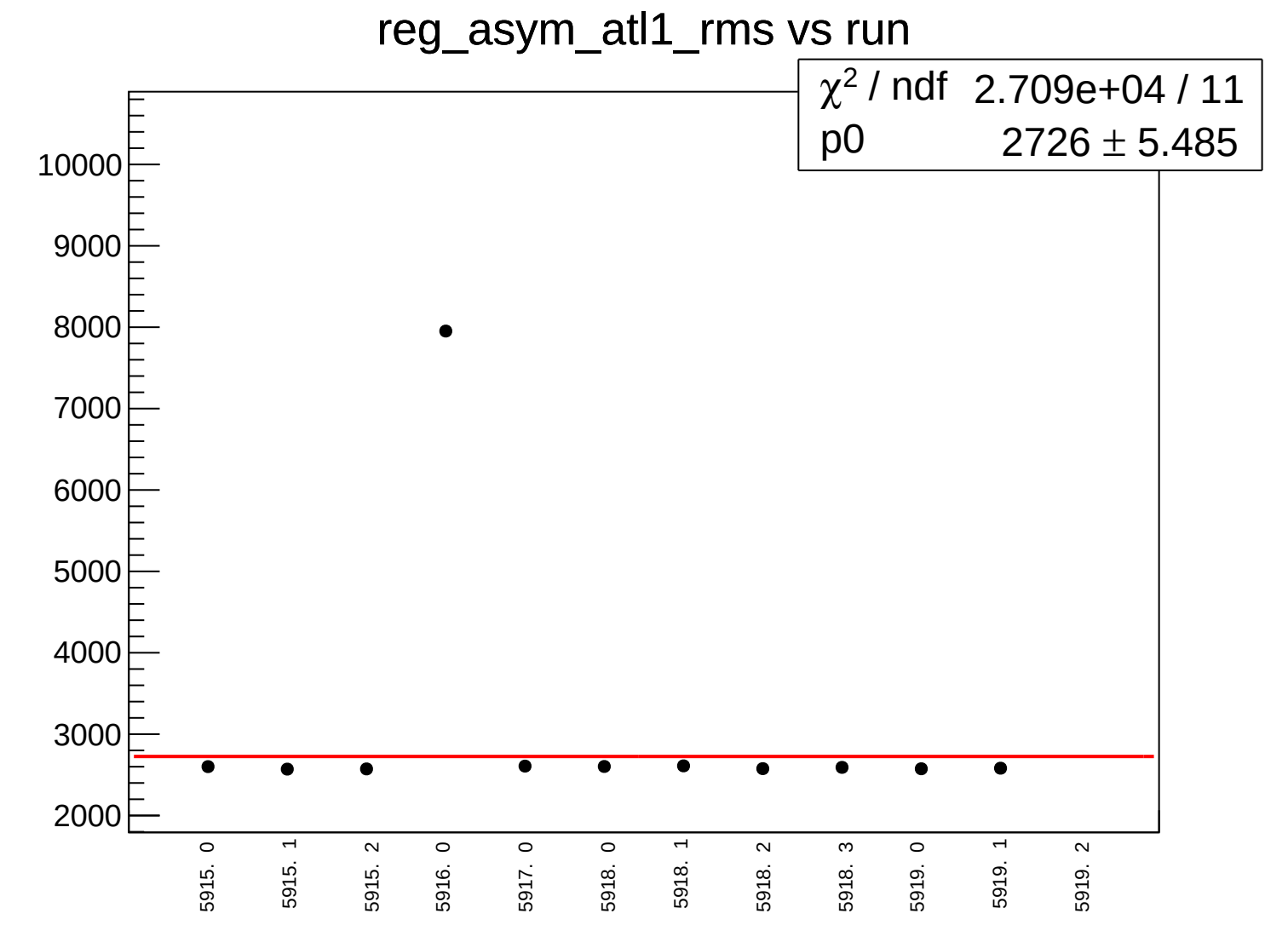

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

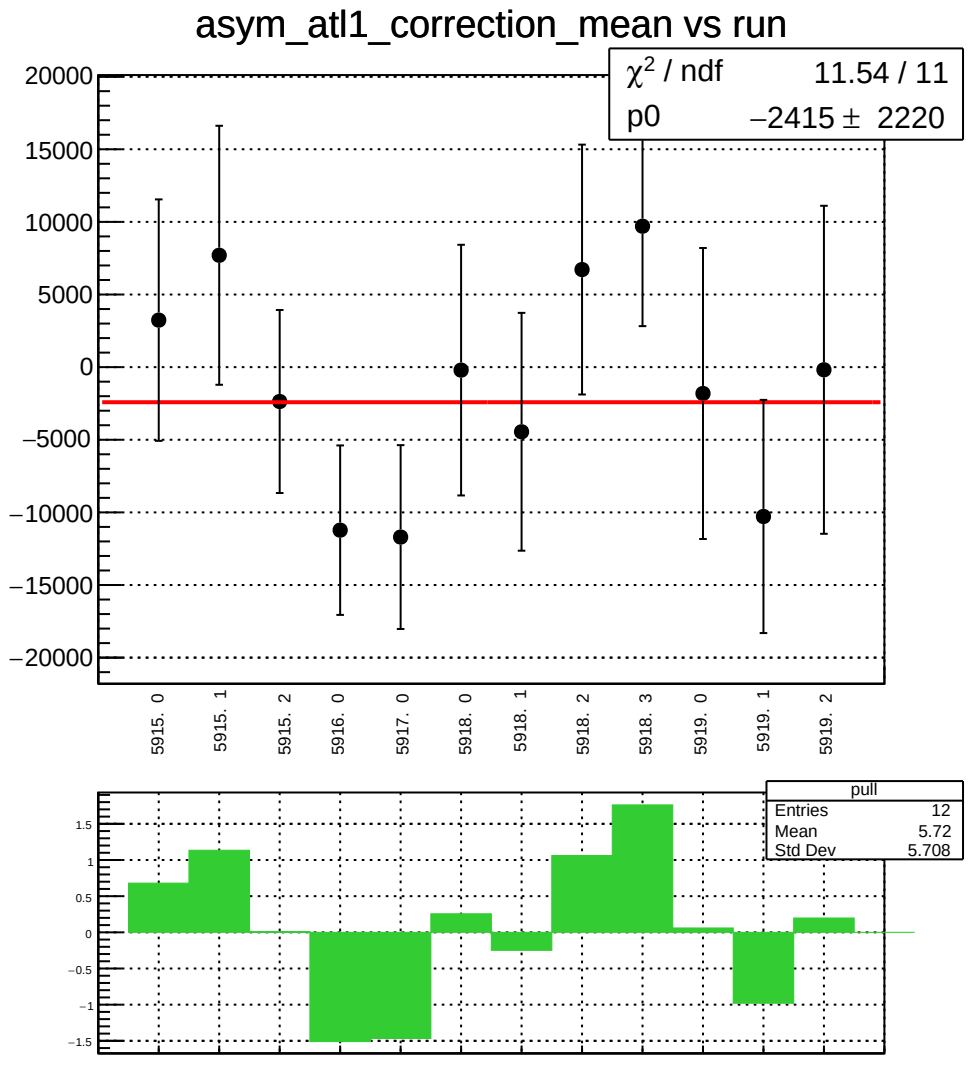

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

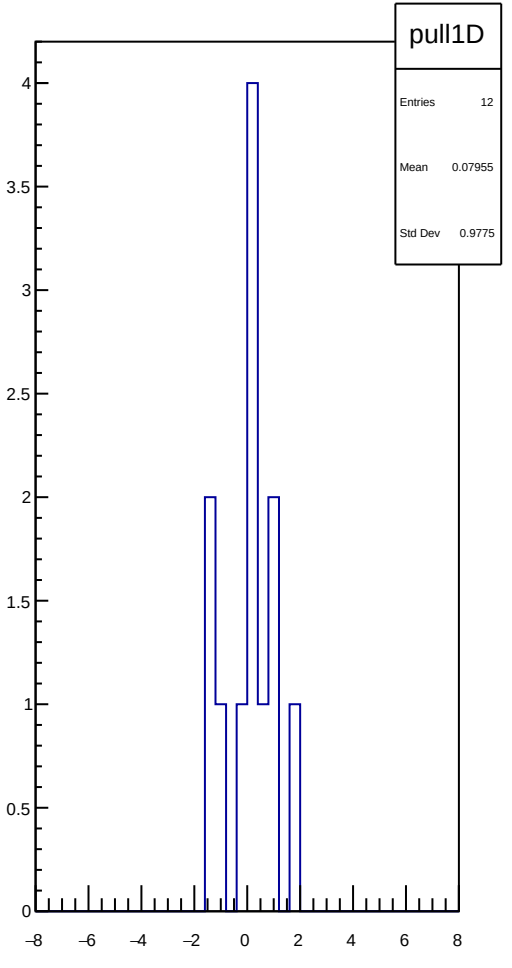

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

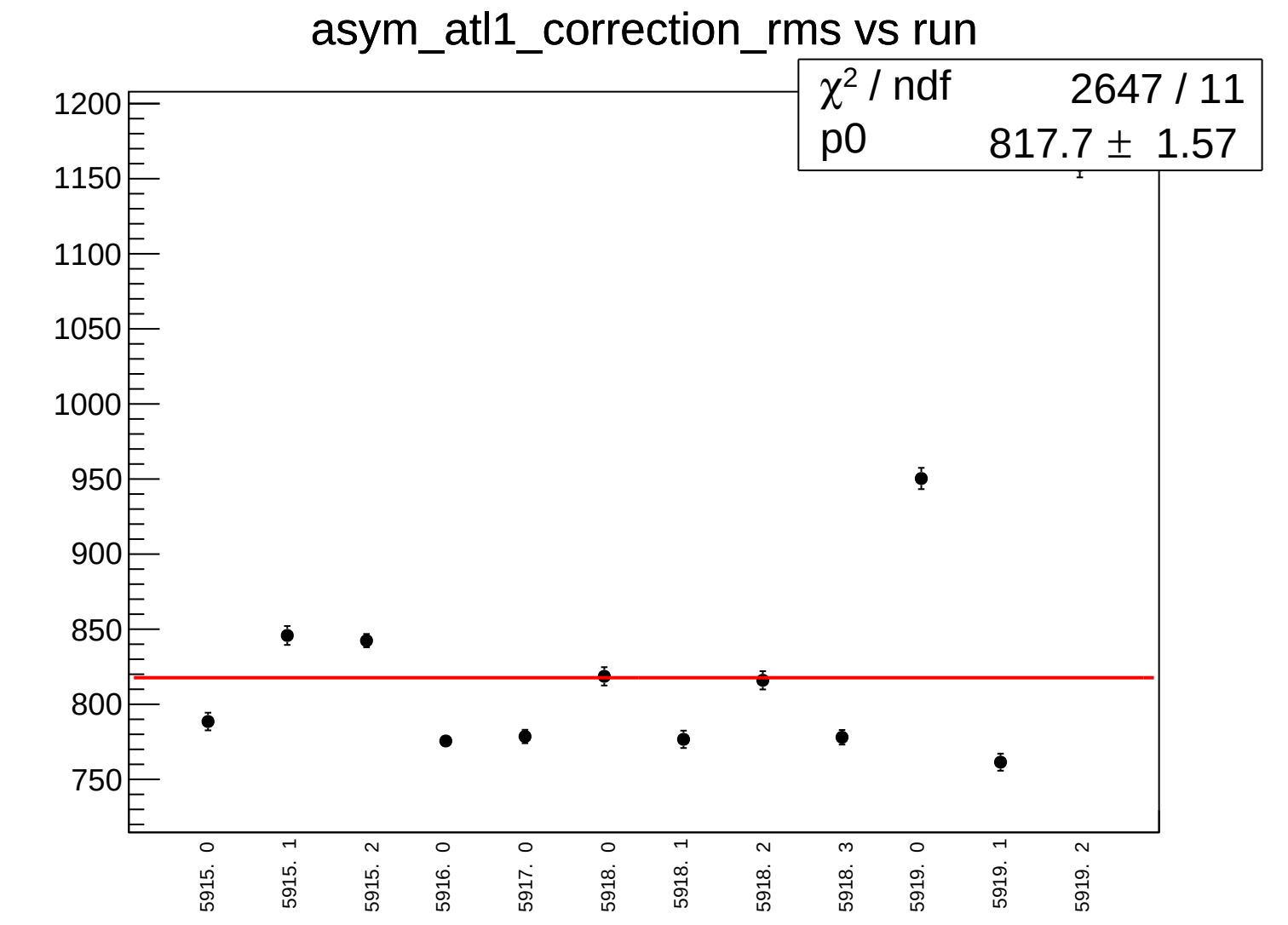

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 8.941 / 11
p0 −3279 ± 7757
50
0
−50
−100
−150
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 21.45
Std Dev 15.03
1
0.5
0
−0.5
−1
−1.5

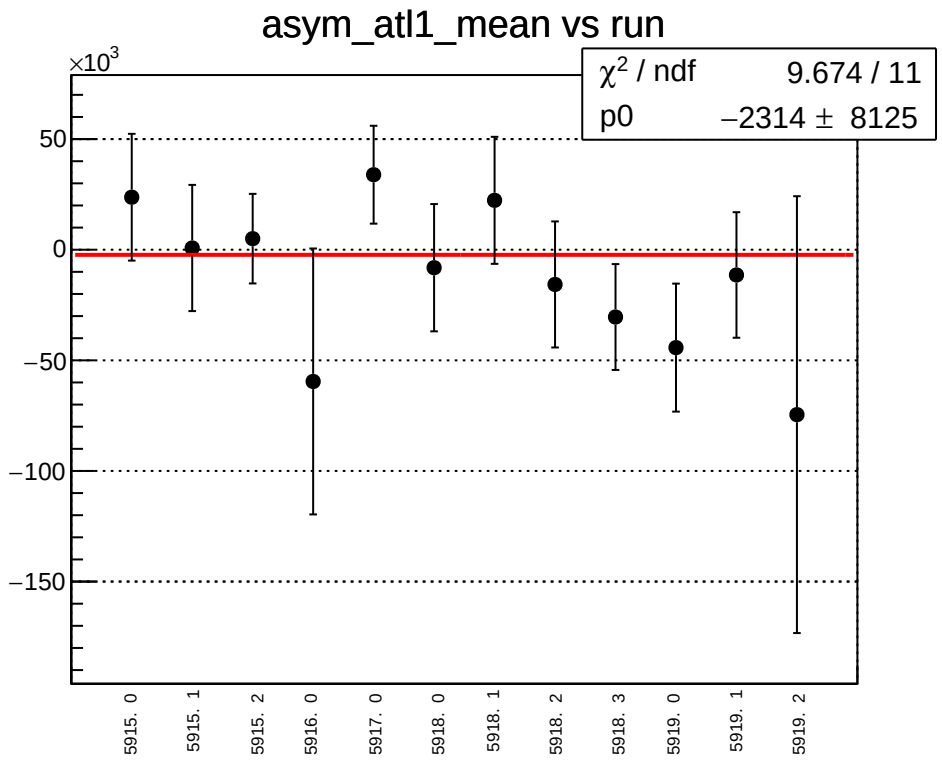

pull1D
Entries 12
Mean −0.1208
Std Dev 0.8547
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

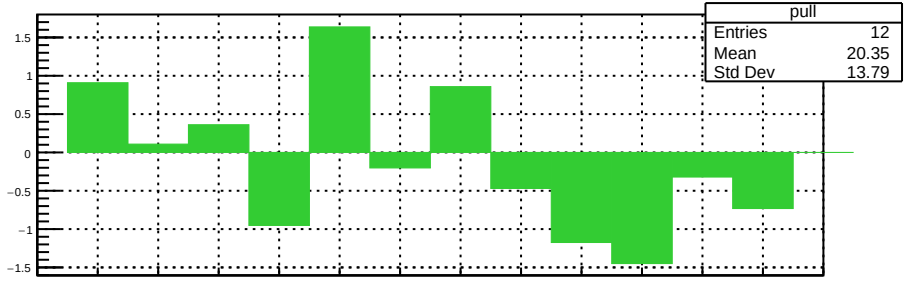

reg_asym_atl1_rms vs run
χ² / ndf 2.709e+04 / 11
p0 2726 ± 5.485
10000
9000
8000
7000
6000
5000
4000
3000
2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

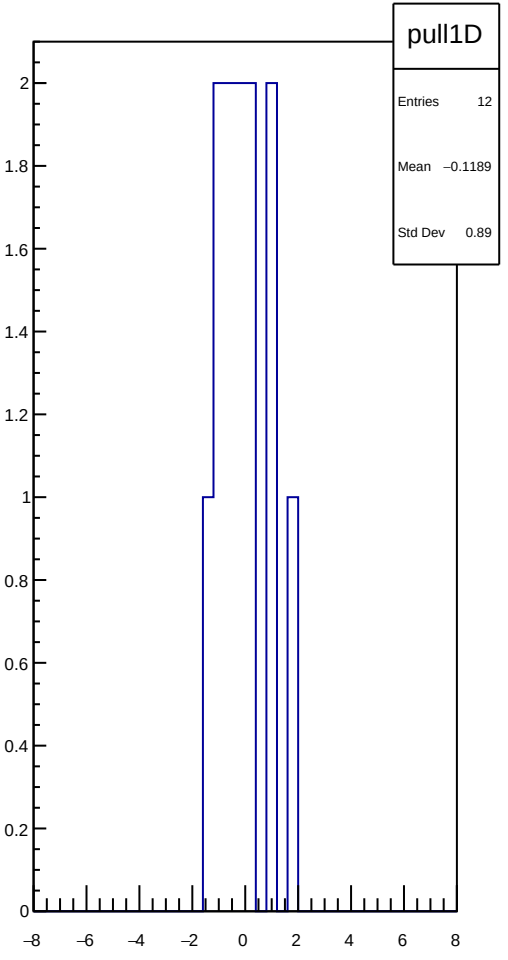

asym_atl1_correction_mean vs run
χ² / ndf 11.54 / 11
p0 −2415 ± 2220
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 5.72
Std Dev 5.708
1.5
1
0.5
0
−0.5
−1
−1.5

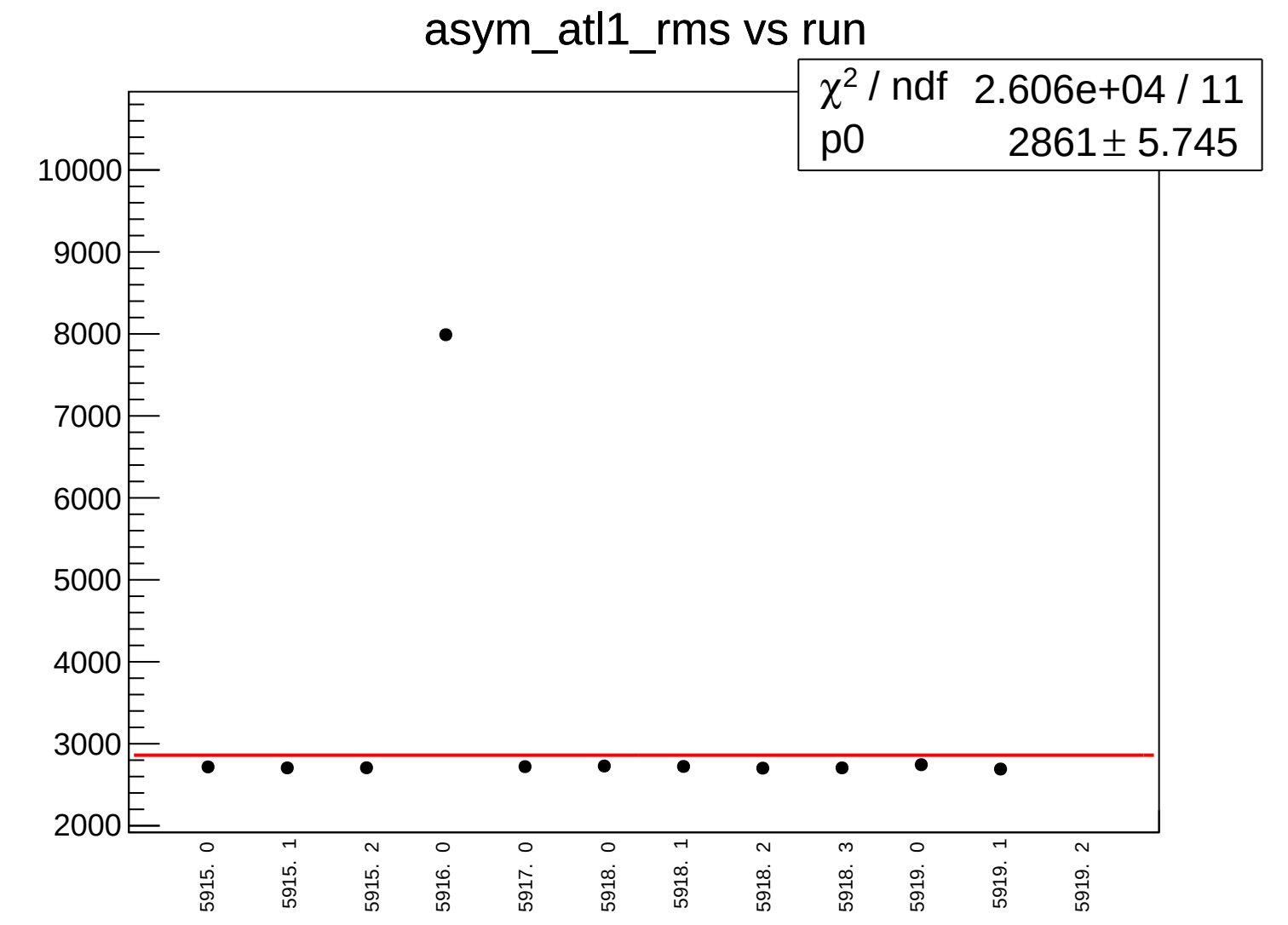

pull1D
Entries 12
Mean 0.07955
Std Dev 0.9775
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

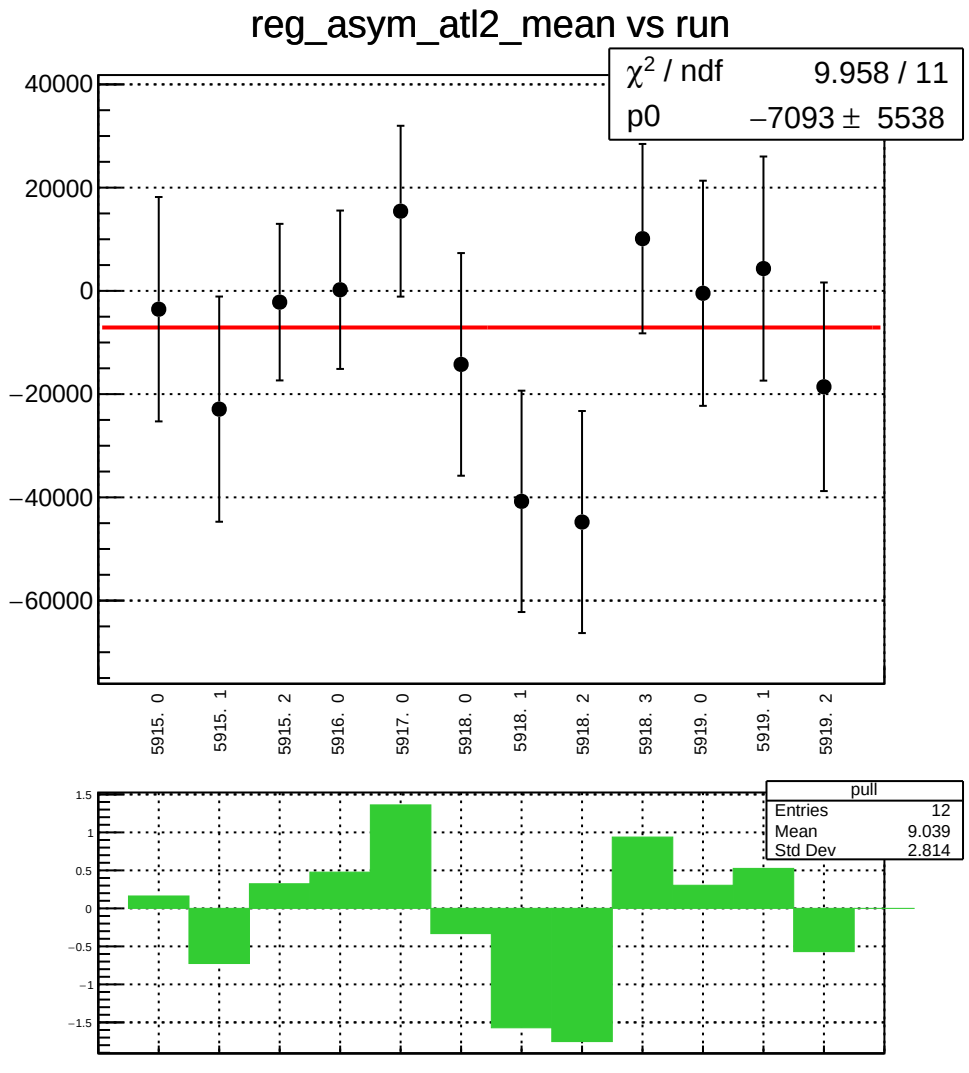

asym_atl1_correction_rms vs run
χ² / ndf 2647 / 11
p0 817.7 ± 1.57
1200
1150
1100
1050
1000
950
900
850
800
750
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

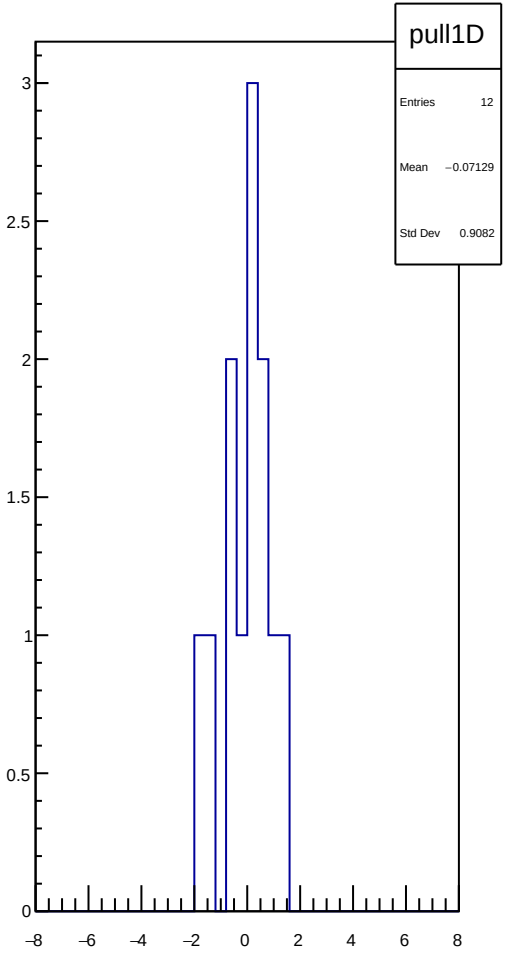

asym_atl1_mean vs run
×10^3
χ^2 / ndf 9.674 / 11
p0 −2314 ± 8125
50
0
−50
−100
−150
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

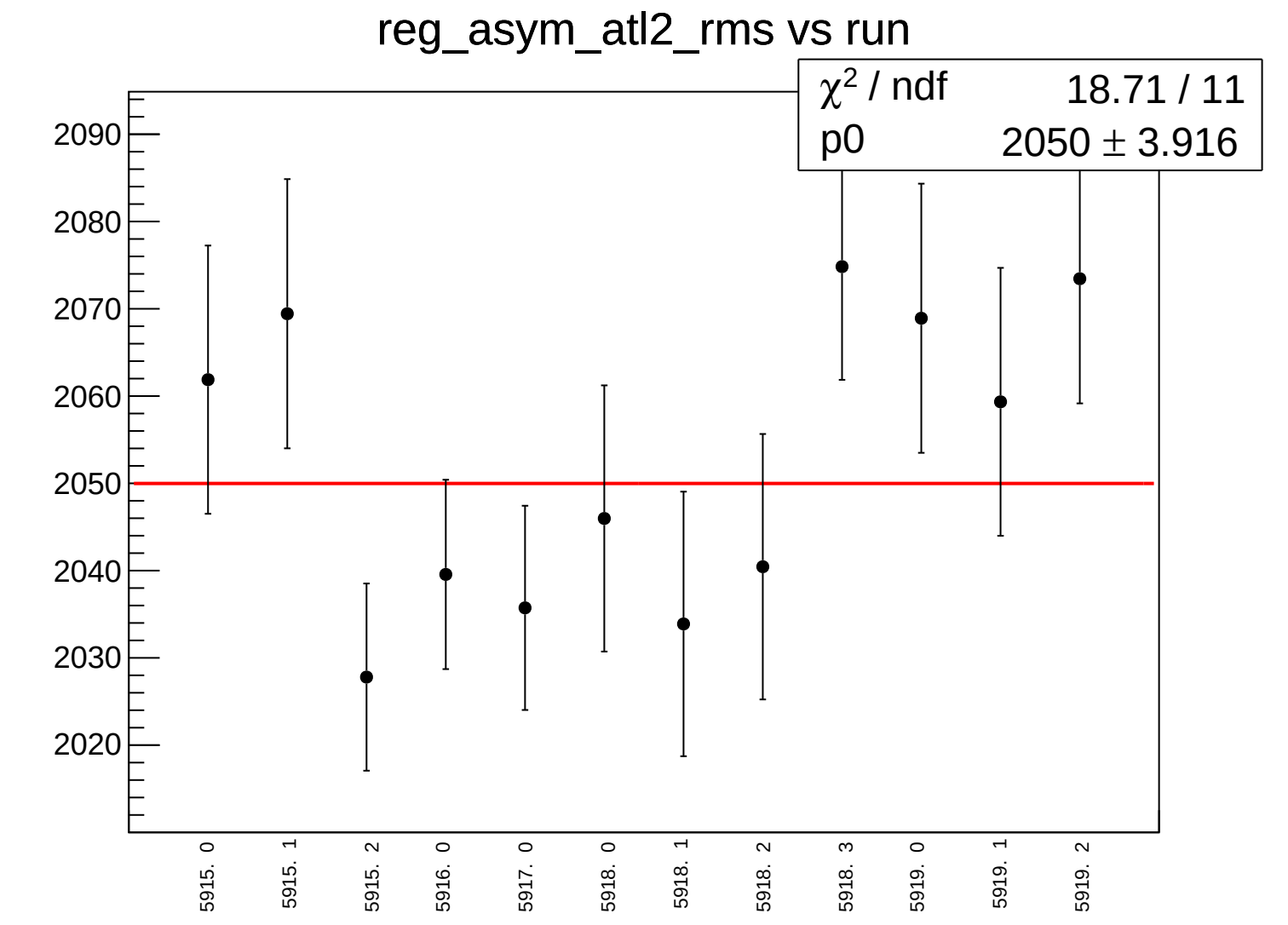

pull
Entries 12
Mean 20.35
Std Dev 13.79
1.5
1
0.5
0
−0.5
−1
−1.5

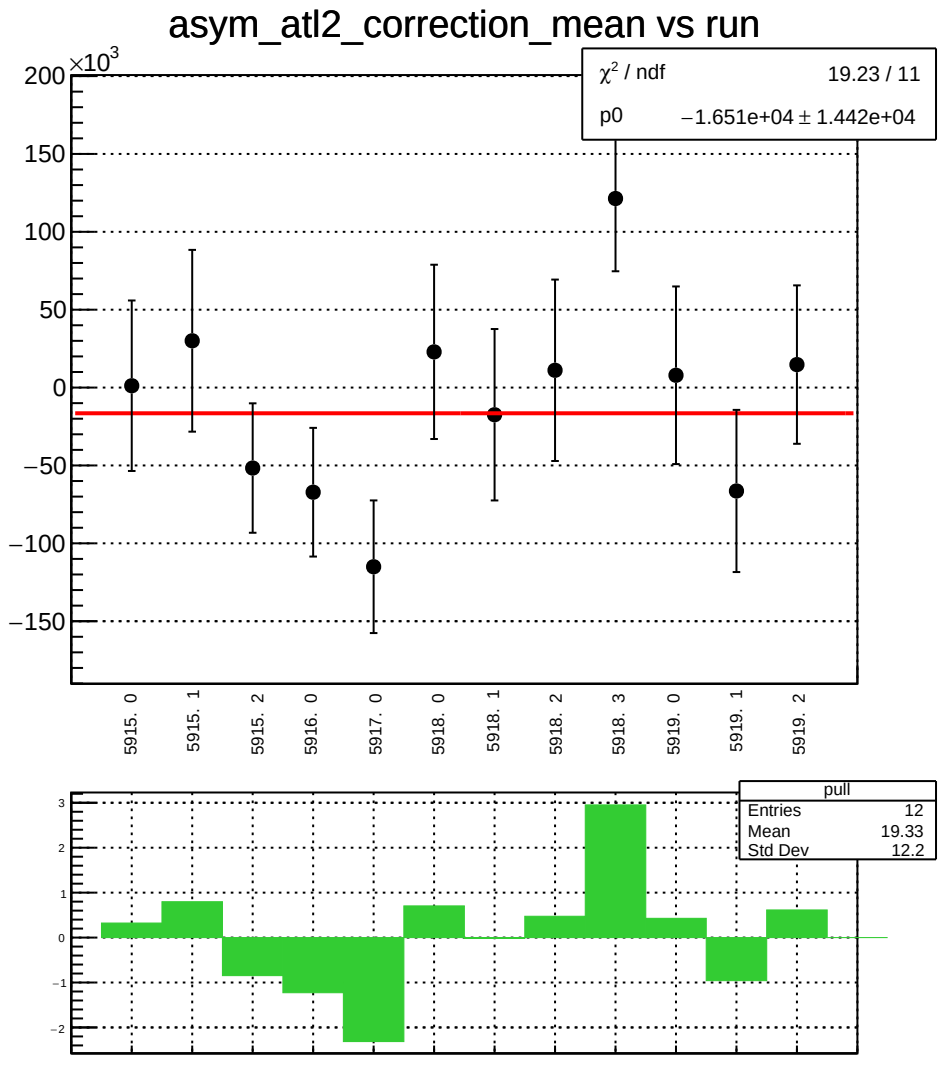

pull1D
Entries 12
Mean −0.1189
Std Dev 0.89
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

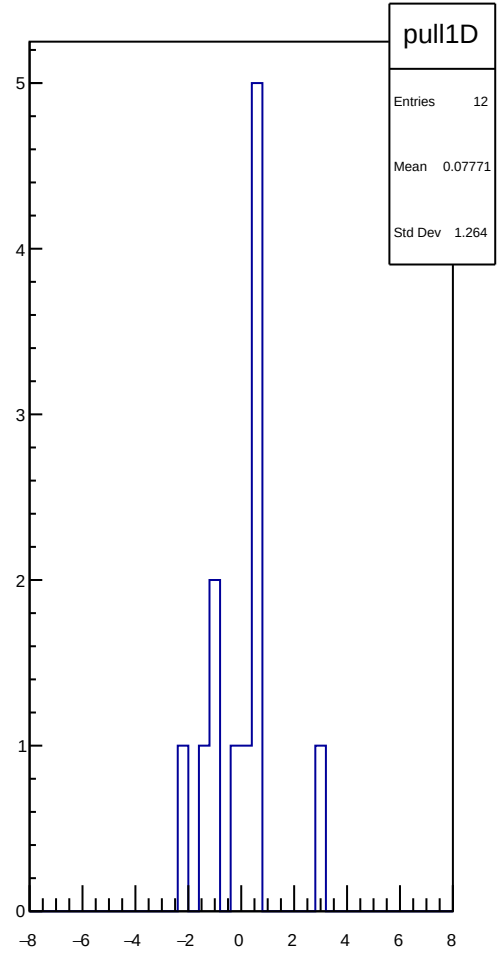

asym_atl1_rms vs run
χ² / ndf 2.606e+04 / 11
p0 2861 ± 5.745
10000
9000
8000
7000
6000
5000
4000
3000
2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

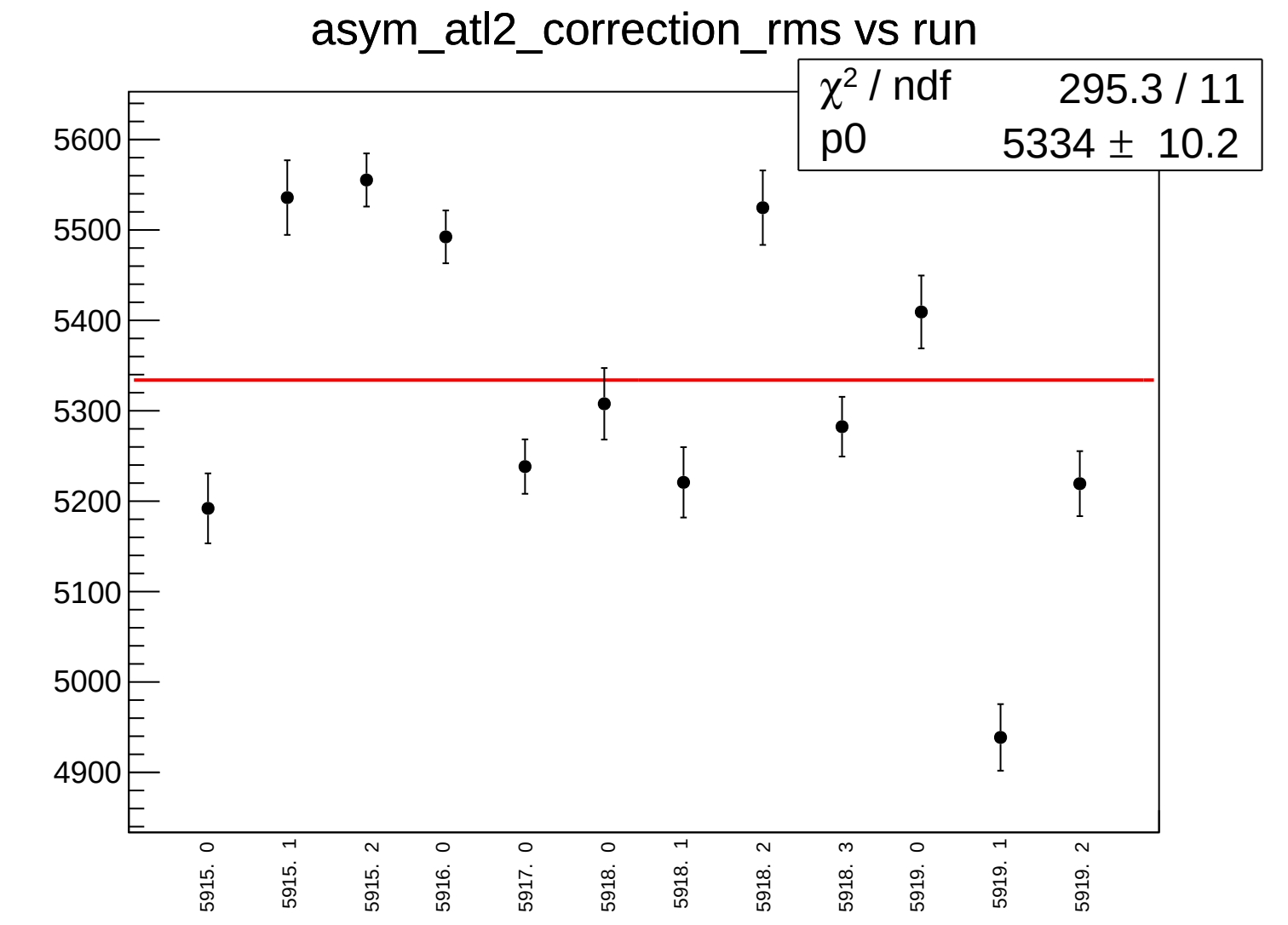

reg_asym_atl2_mean vs run
χ² / ndf 9.958 / 11
p0 −7093 ± 5538
40000
20000
0
−20000
−40000
−60000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 9.039
Std Dev 2.814
1.5
1
0.5
0
−0.5
−1
−1.5

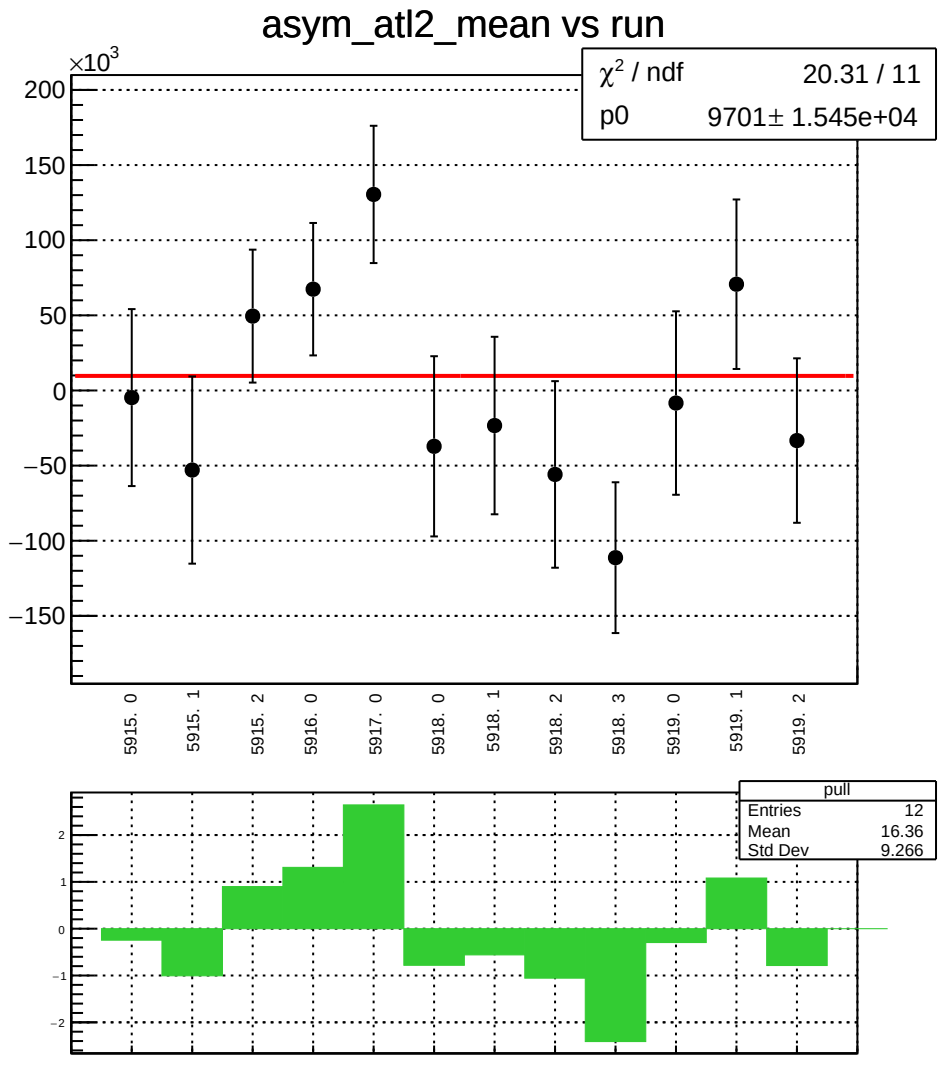

pull1D
Entries 12
Mean −0.07129
Std Dev 0.9082
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

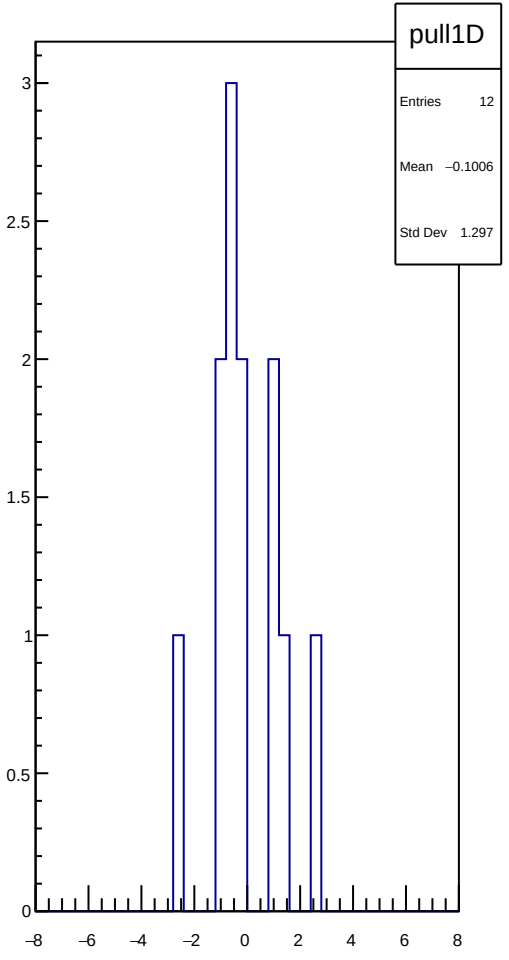

reg_asym_atl2_rms vs run
χ² / ndf 18.71 / 11
p0 2050 ± 3.916
2090
2080
2070
2060
2050
2040
2030
2020
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

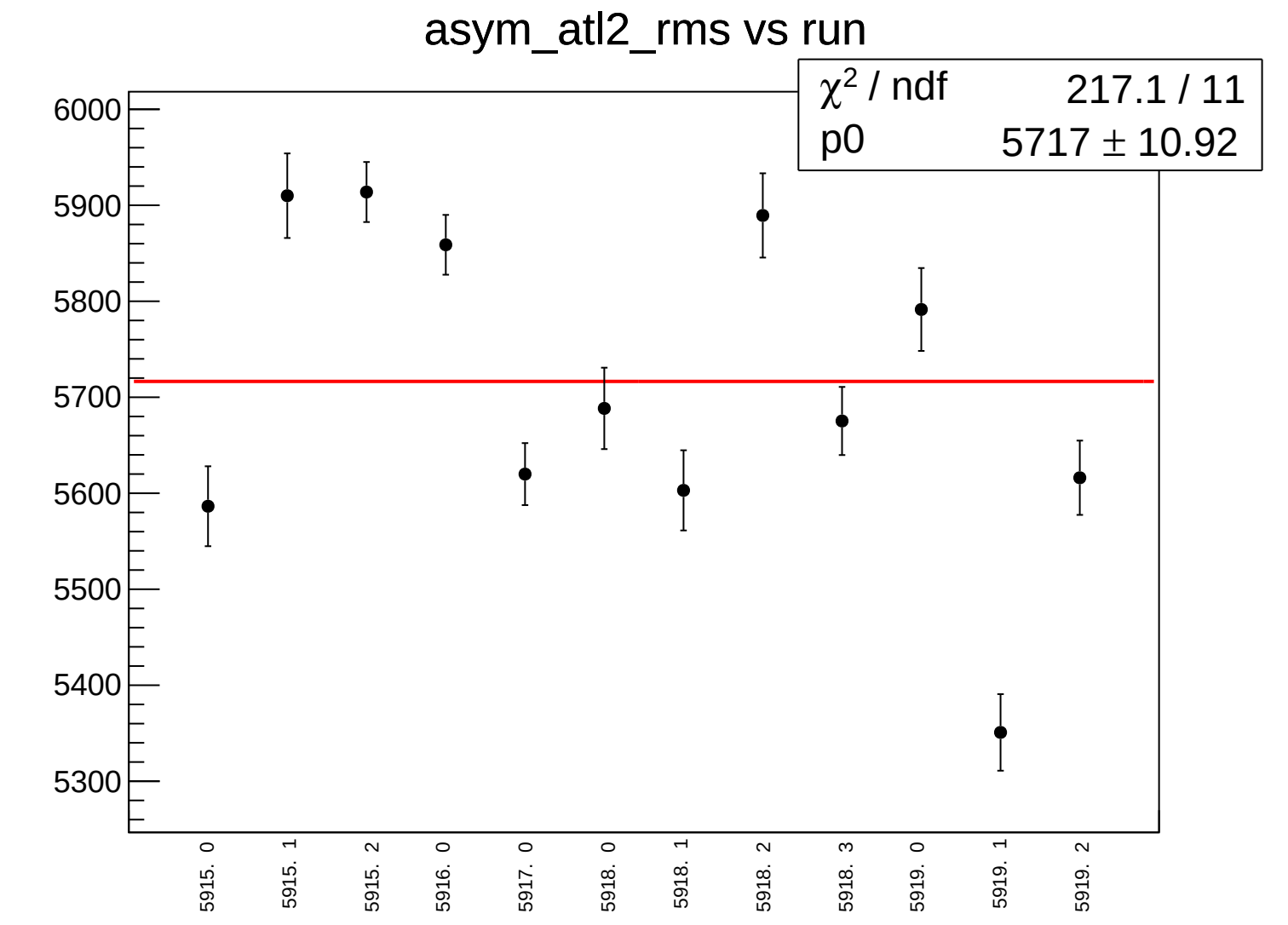

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 19.23 / 11
p0 −1.651e+04 ± 1.442e+04
200
150
100
50
0
−50
−100
−150
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.33
Std Dev 12.2
3
2
1
0
−1
−2

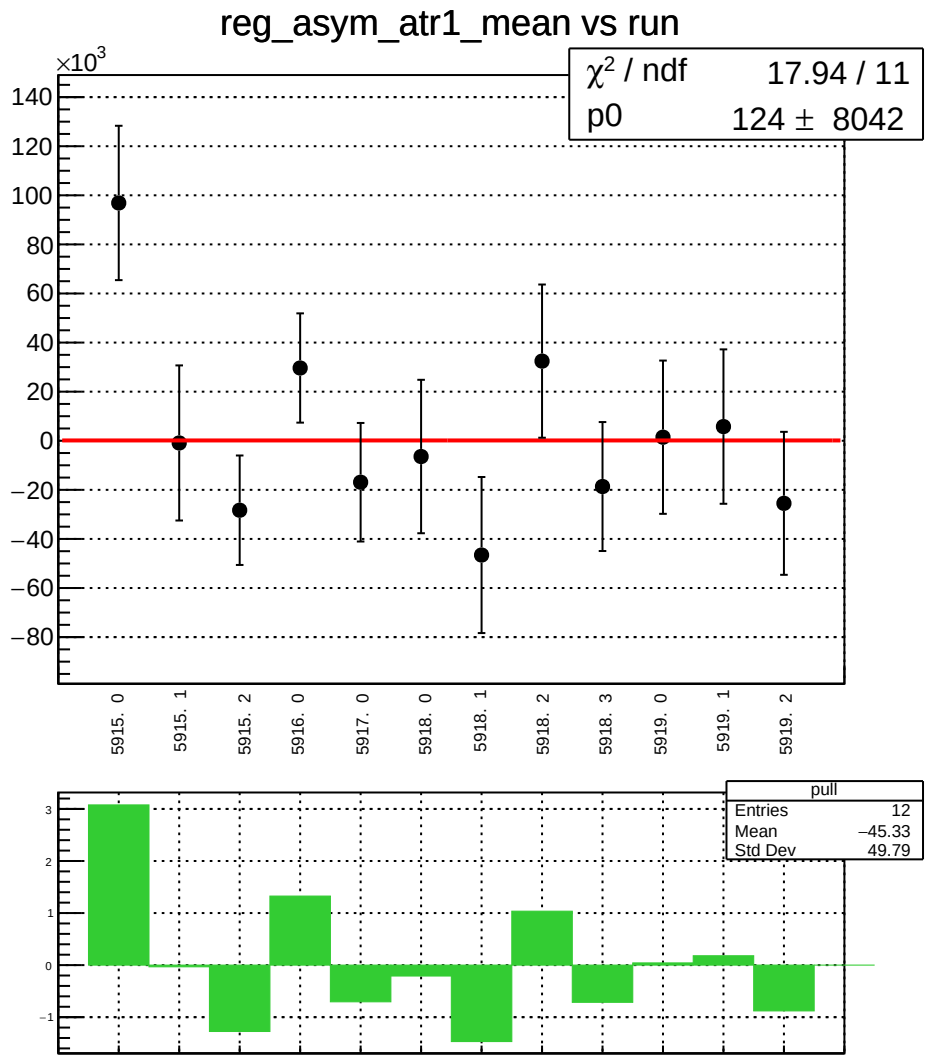

pull1D
Entries 12
Mean 0.07771
Std Dev 1.264
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

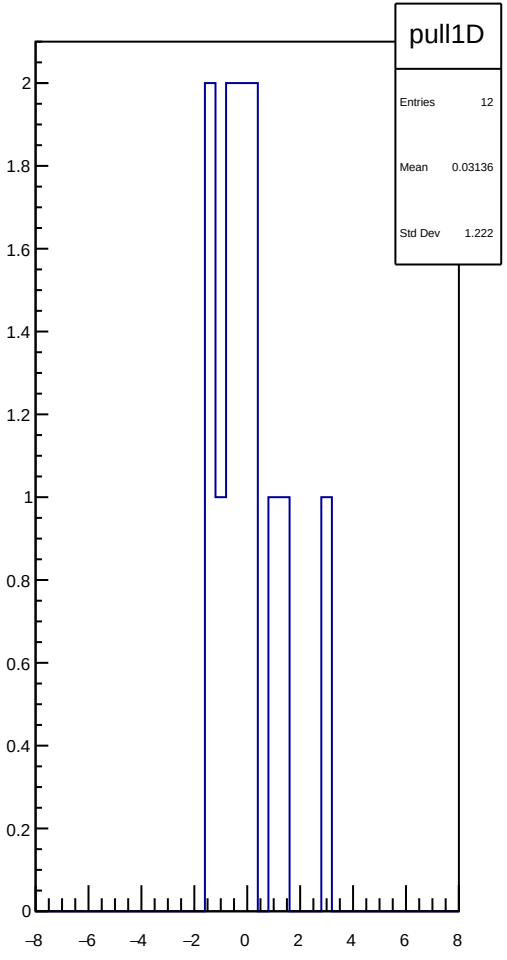

asym_atl2_correction_rms vs run
χ² / ndf 295.3 / 11
p0 5334 ± 10.2
5600
5500
5400
5300
5200
5100
5000
4900
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

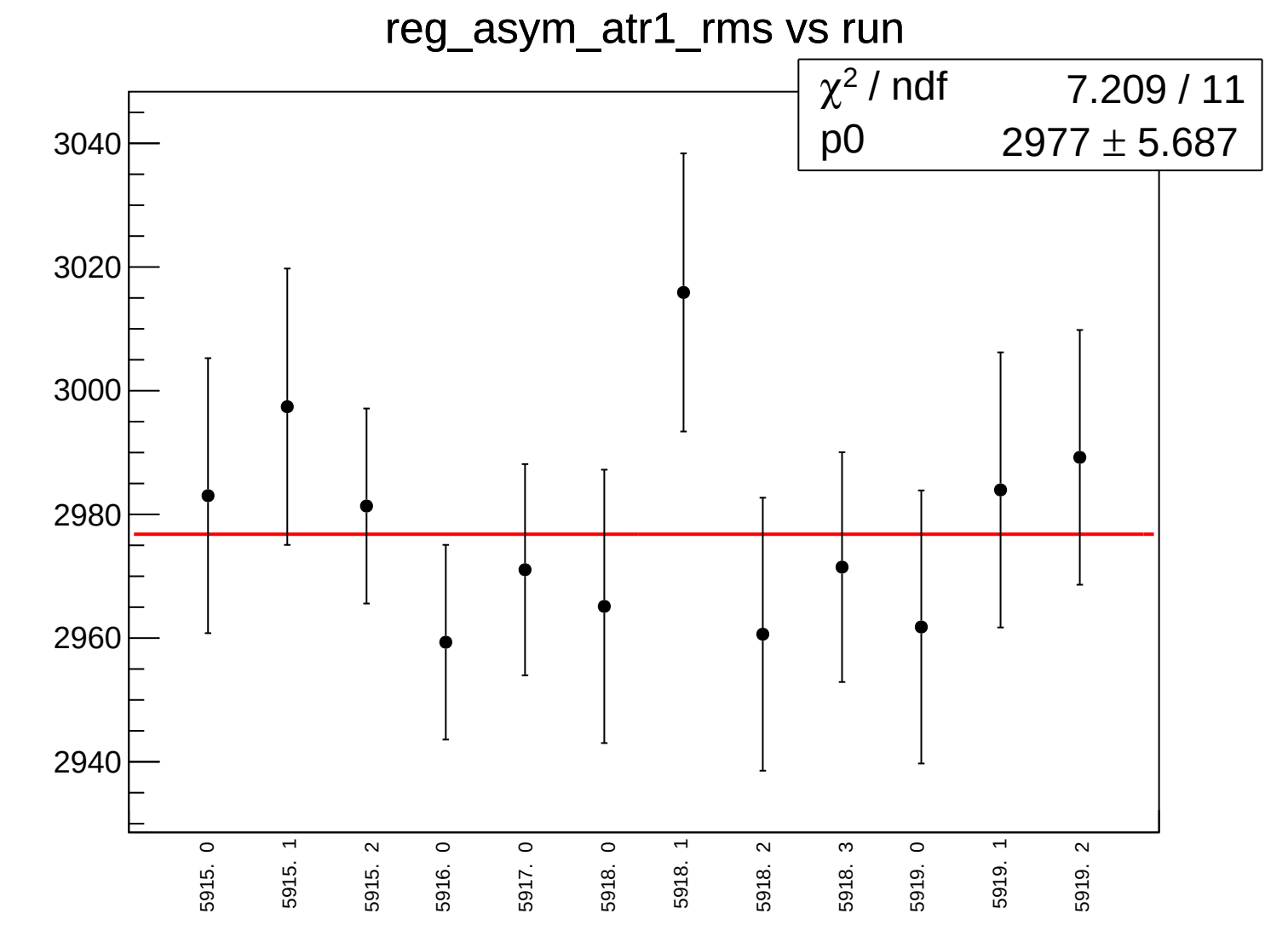

asym_atl2_mean vs run
×10^3
χ² / ndf 20.31 / 11
p0 9701± 1.545e+04
200
150
100
50
0
−50
−100
−150
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.36
Std Dev 9.266
2
1
0
−1
−2

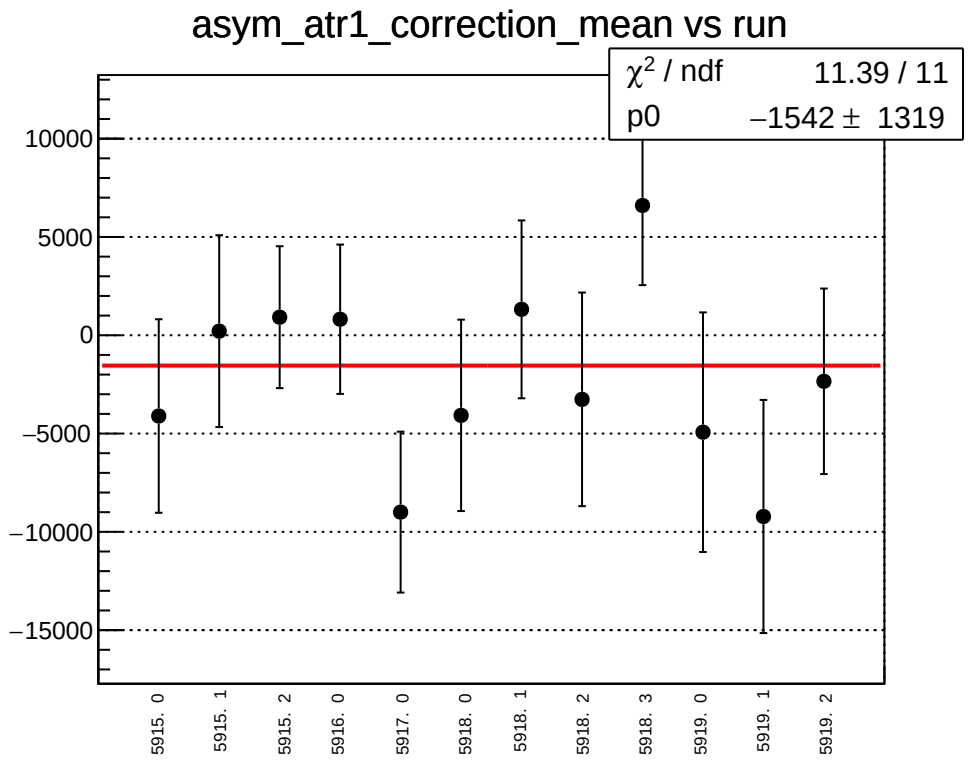

pull1D
Entries 12
Mean −0.1006
Std Dev 1.297
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

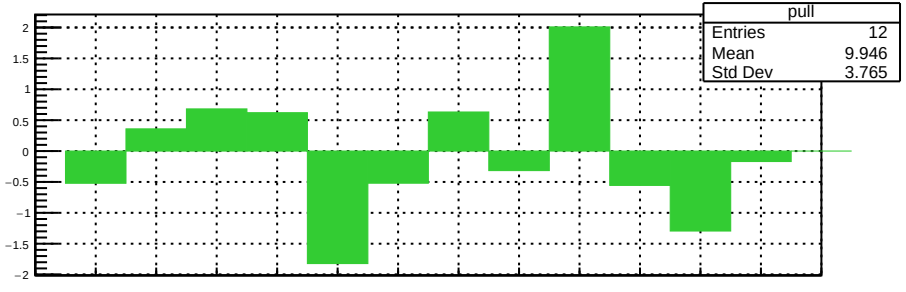

asym_atl2_rms vs run
χ² / ndf 217.1 / 11
p0 5717 ± 10.92
6000
5900
5800
5700
5600
5500
5400
5300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

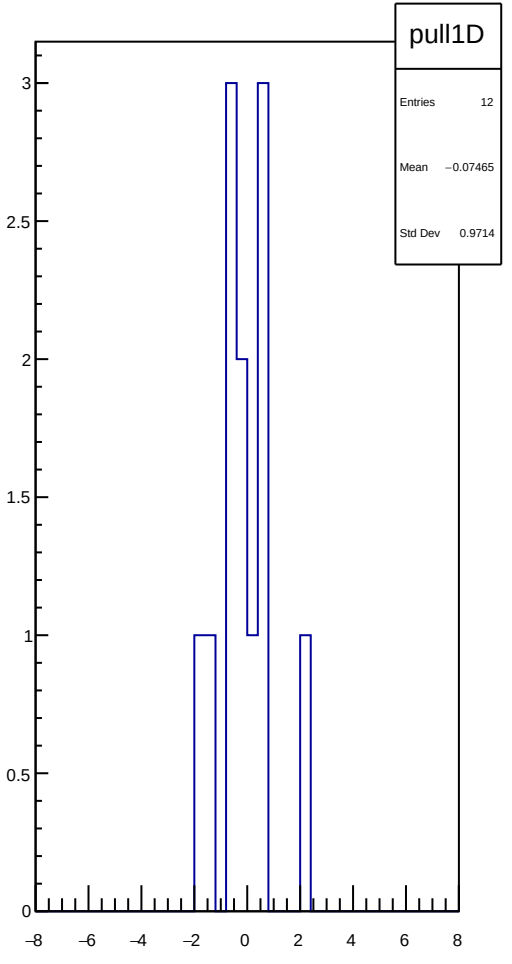

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 17.94 / 11
p0 124 ± 8042
140
120
100
80
60
40
20
0
−20
−40
−60
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −45.33
Std Dev 49.79
3
2
1
0
−1

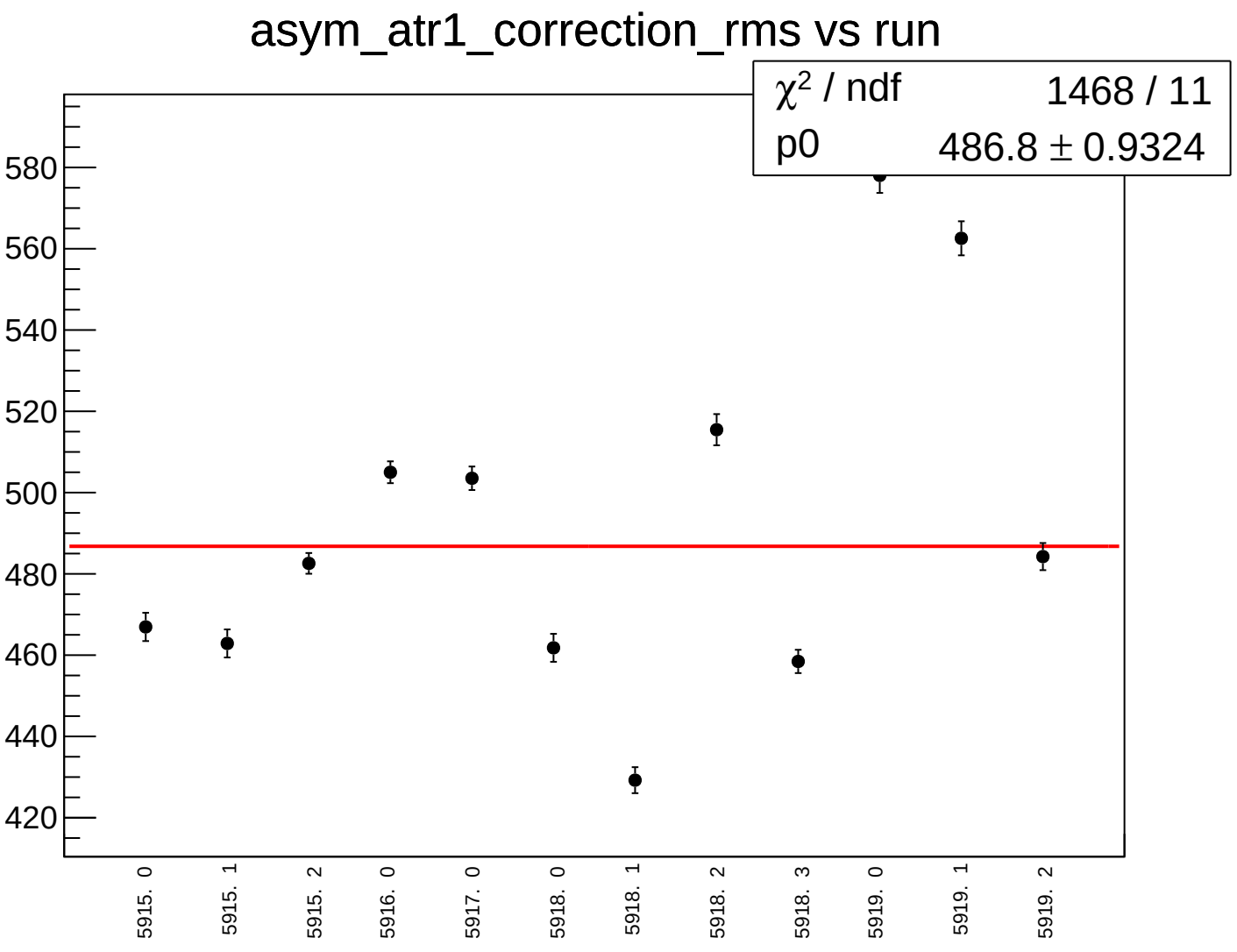

pull1D
Entries 12
Mean 0.03136
Std Dev 1.222
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

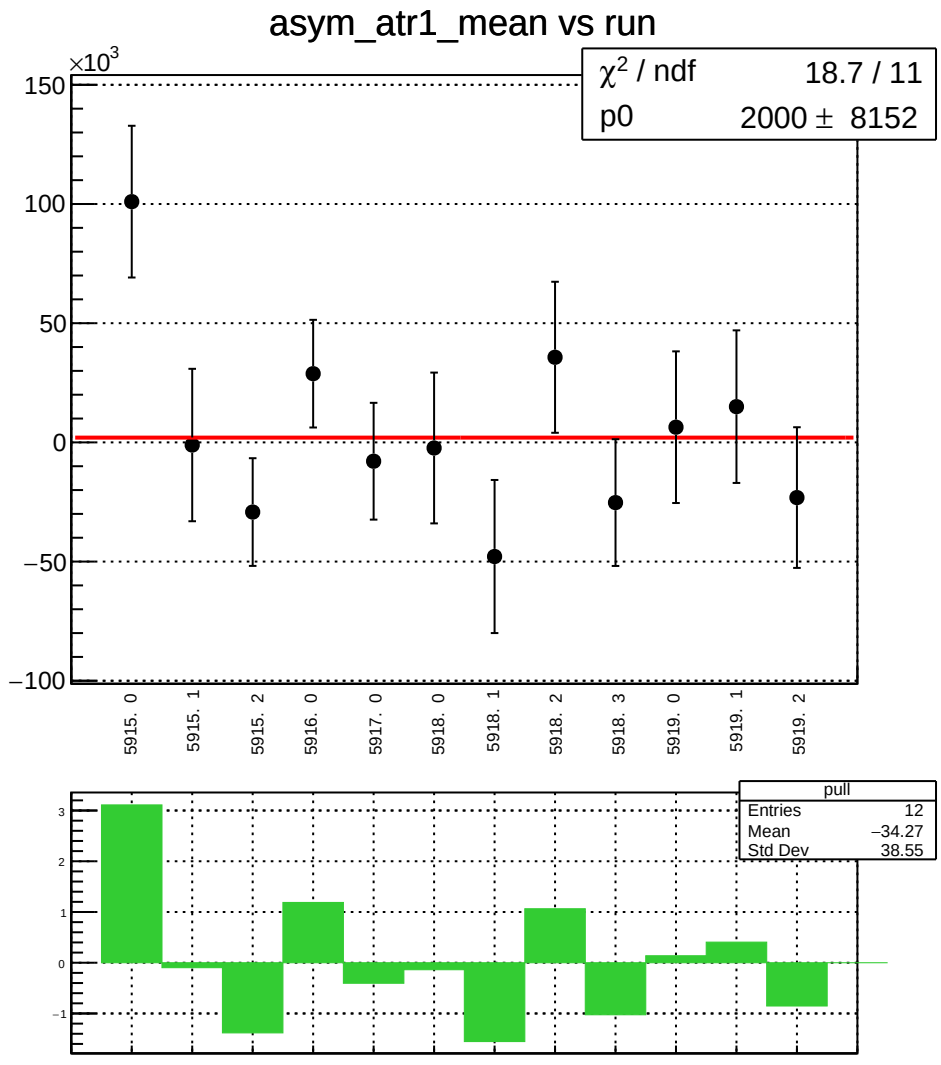

reg_asym_atr1_rms vs run
χ² / ndf 7.209 / 11
p0 2977 ± 5.687
3040
3020
3000
2980
2960
2940
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

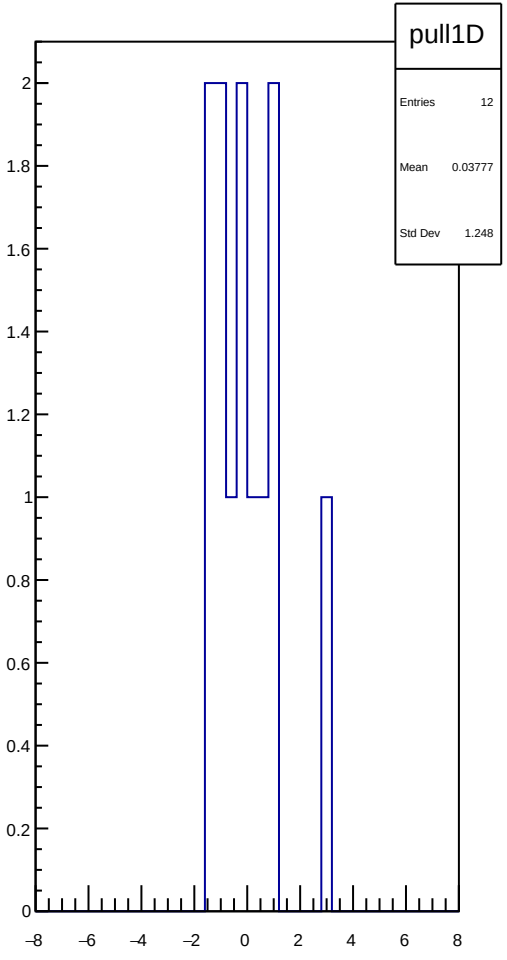

asym_atr1_correction_mean vs run
χ² / ndf 11.39 / 11
p0 −1542 ± 1319
10000
5000
0
−5000
−10000
−15000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

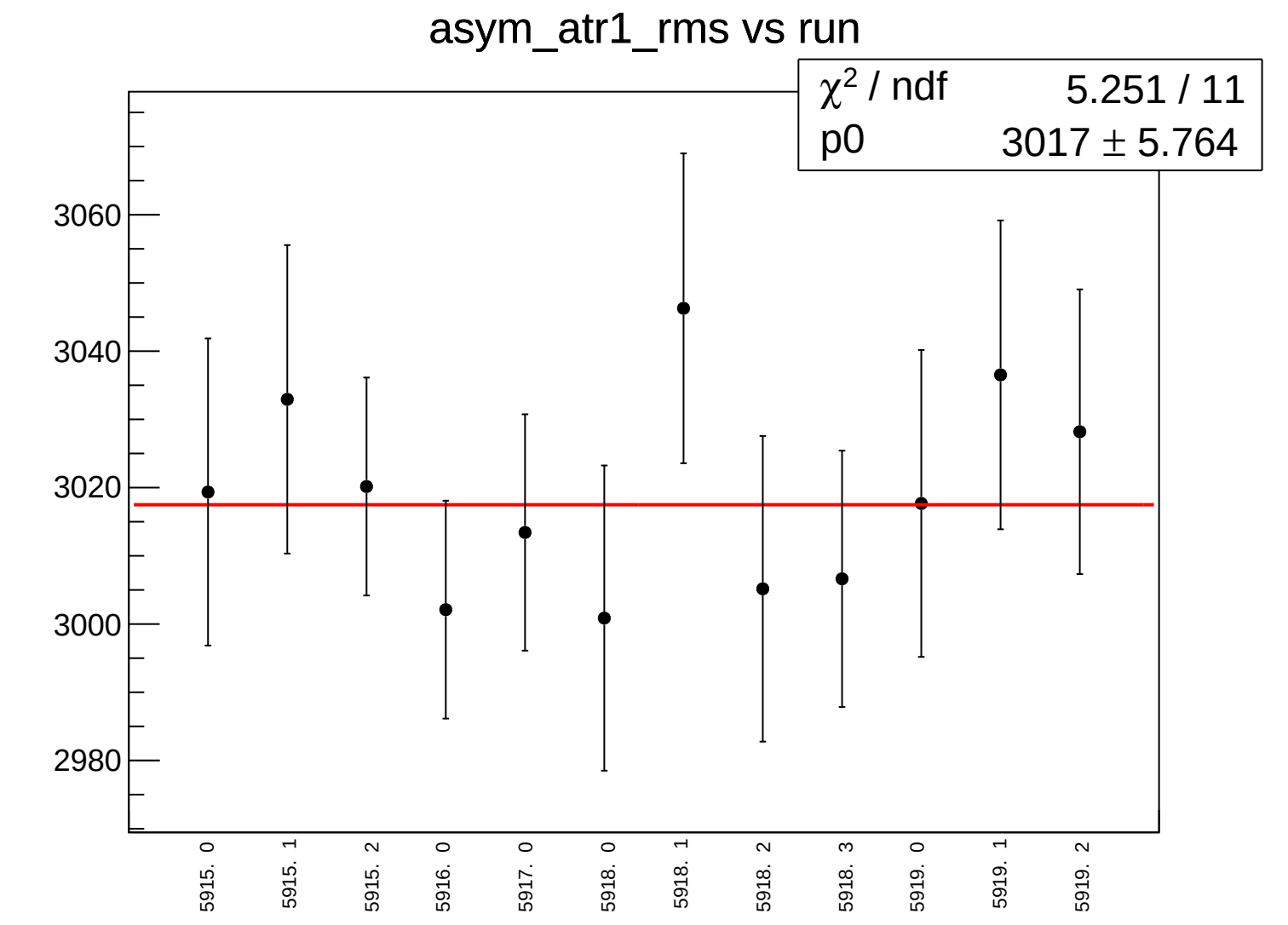

pull
Entries 12
Mean 9.946
Std Dev 3.765
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

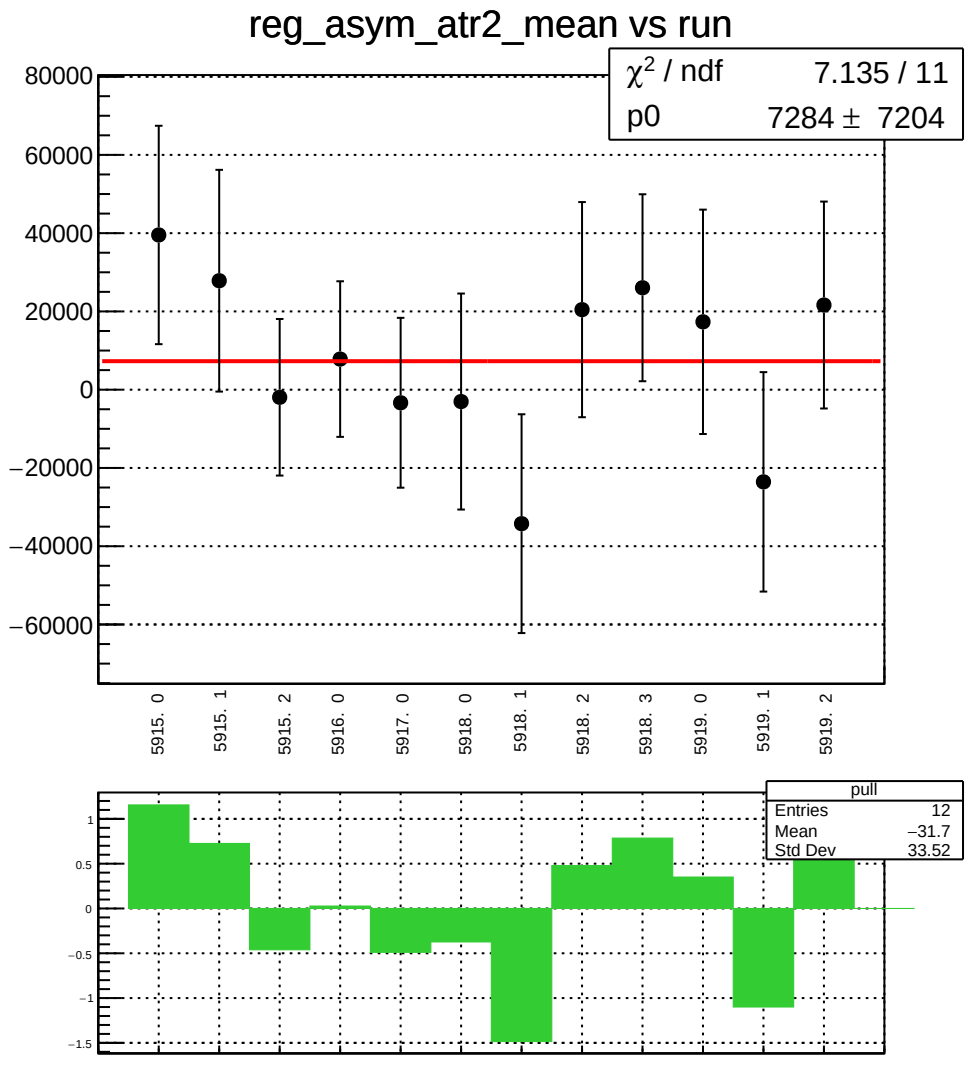

pull1D
Entries 12
Mean −0.07465
Std Dev 0.9714
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

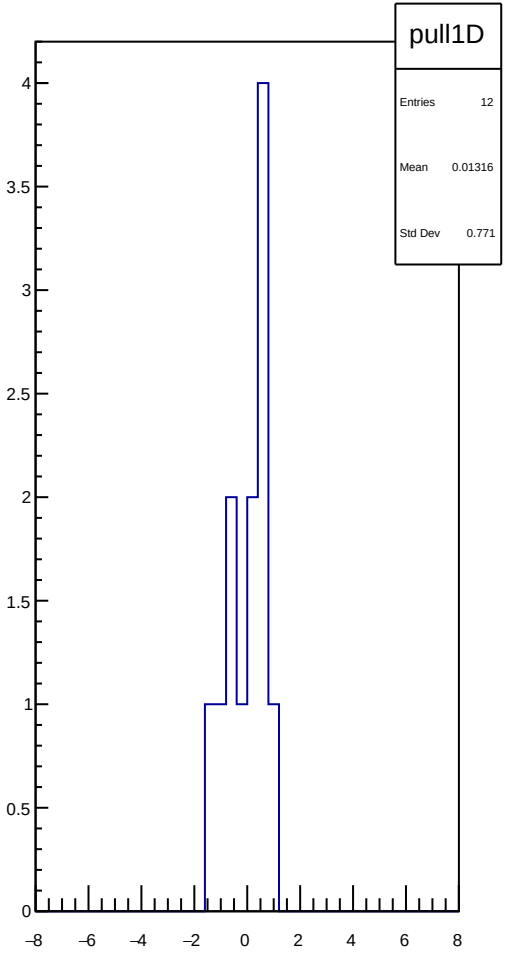

asym_atr1_correction_rms vs run
χ² / ndf 1468 / 11
p0 486.8 ± 0.9324
580
560
540
520
500
480
460
440
420
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

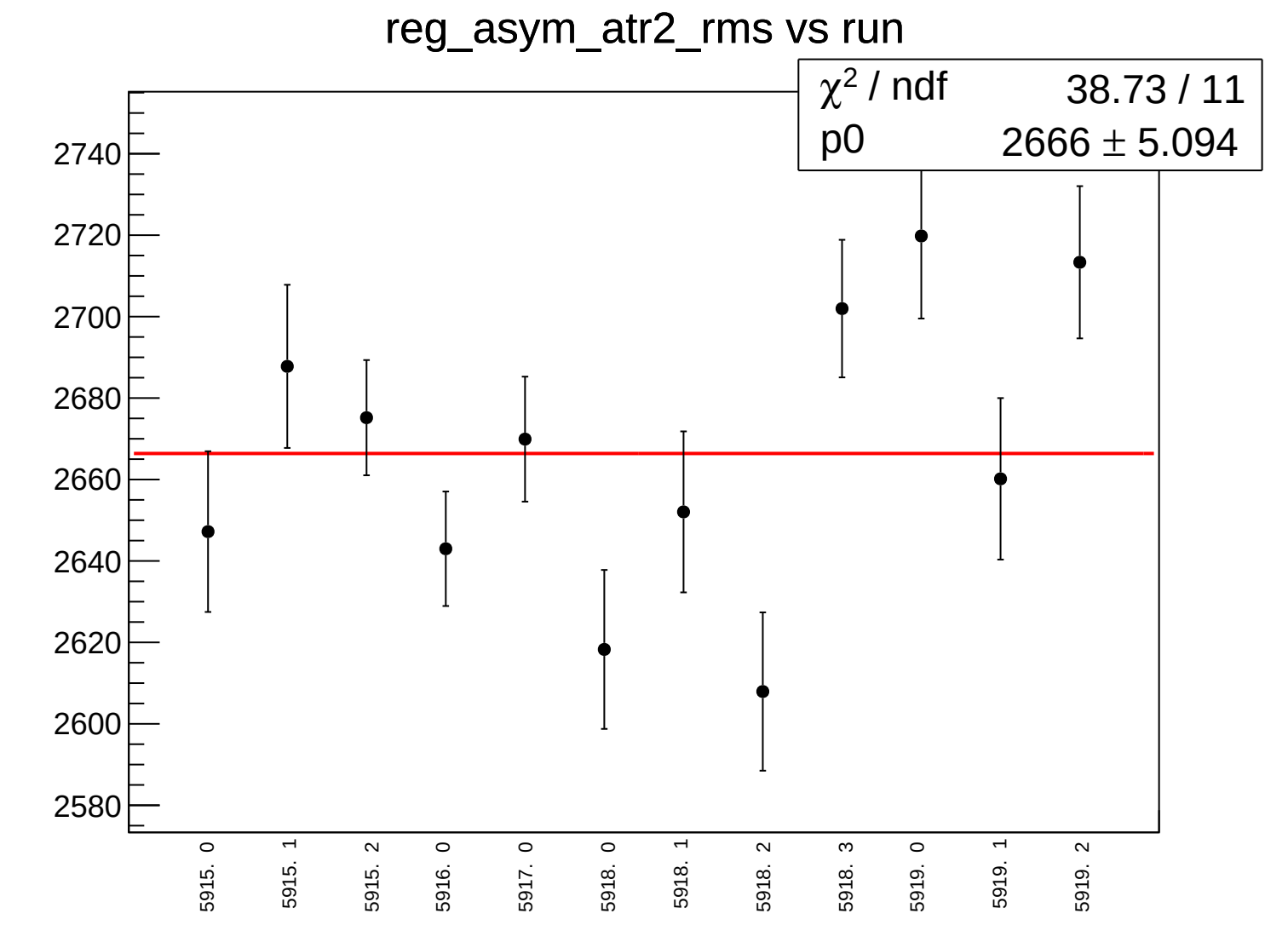

asym_atr1_mean vs run
×10^3
χ^2 / ndf 18.7 / 11
p0 2000 ± 8152
150
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −34.27
Std Dev 38.55
3
2
1
0
−1

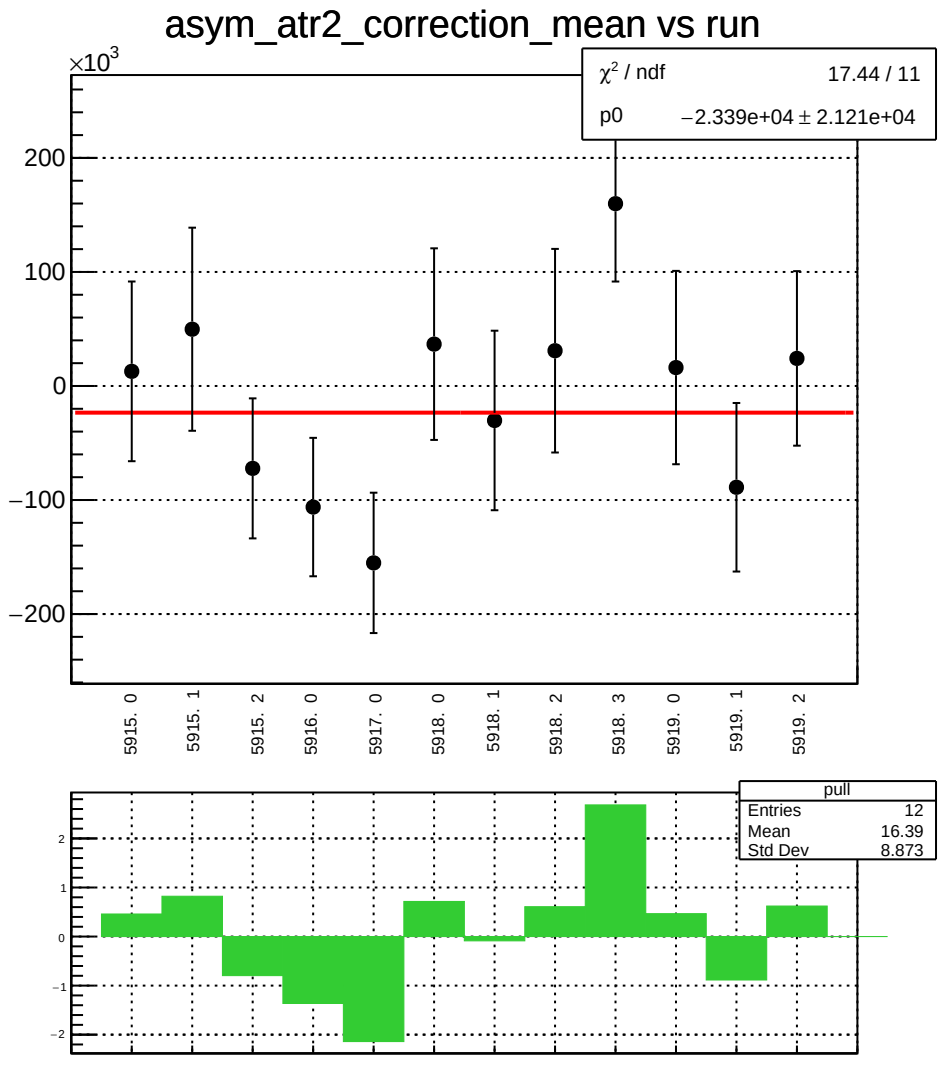

pull1D
Entries 12
Mean 0.03777
Std Dev 1.248
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

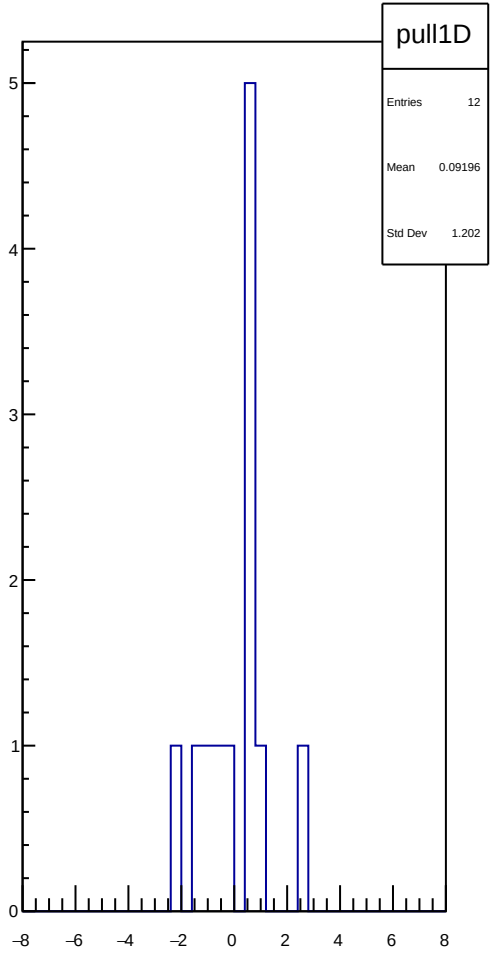

asym_atr1_rms vs run
χ² / ndf 5.251 / 11
p0 3017 ± 5.764
3060
3040
3020
3000
2980
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

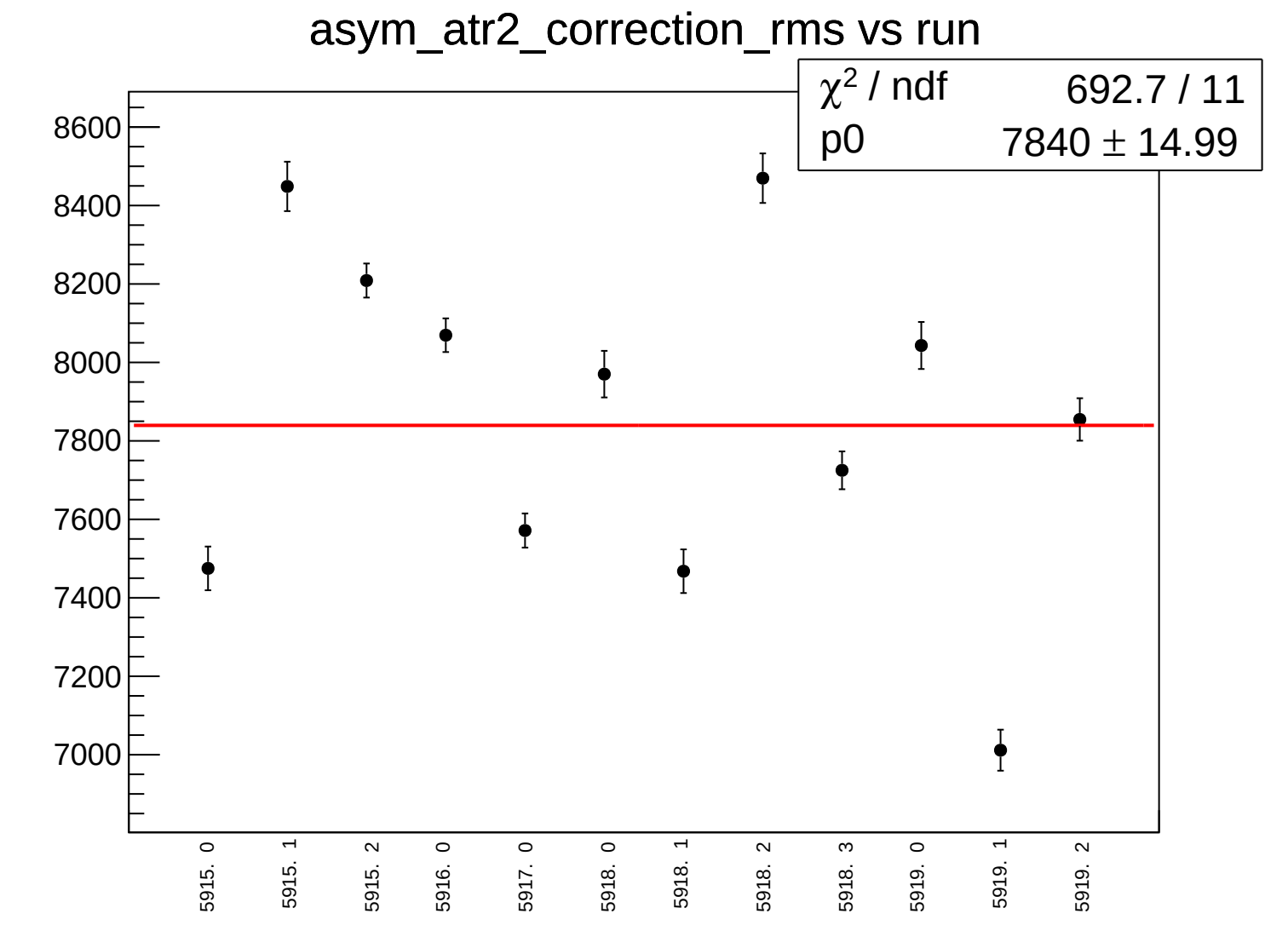

reg_asym_atr2_mean vs run
χ² / ndf 7.135 / 11
p0 7284 ± 7204
80000
60000
40000
20000
0
−20000
−40000
−60000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −31.7
Std Dev 33.52
1
0.5
0
−0.5
−1
−1.5

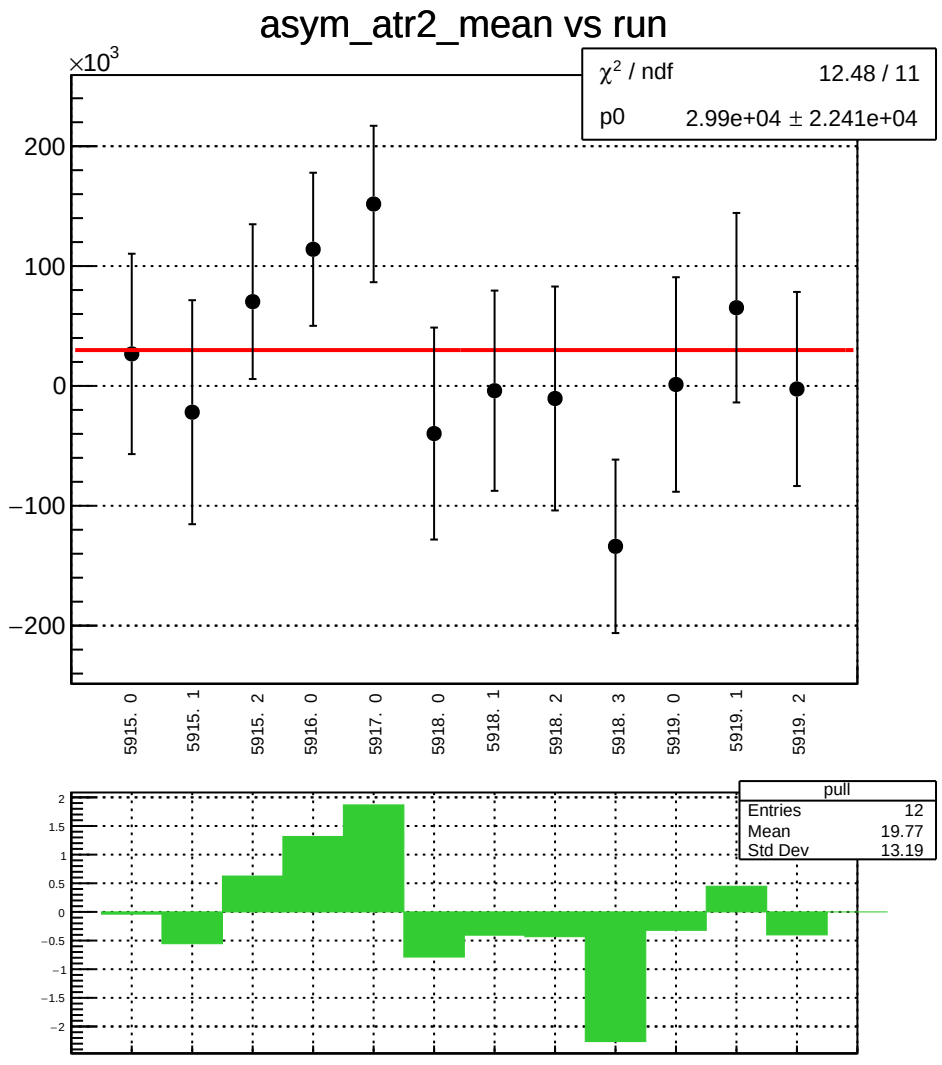

pull1D
Entries 12
Mean 0.01316
Std Dev 0.771
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

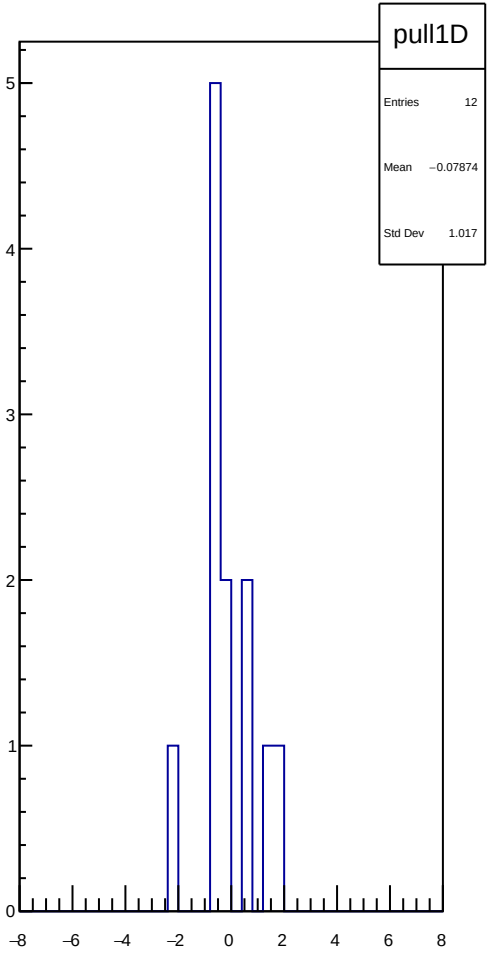

reg_asym_atr2_rms vs run
χ² / ndf 38.73 / 11
p0 2666 ± 5.094
2740
2720
2700
2680
2660
2640
2620
2600
2580
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

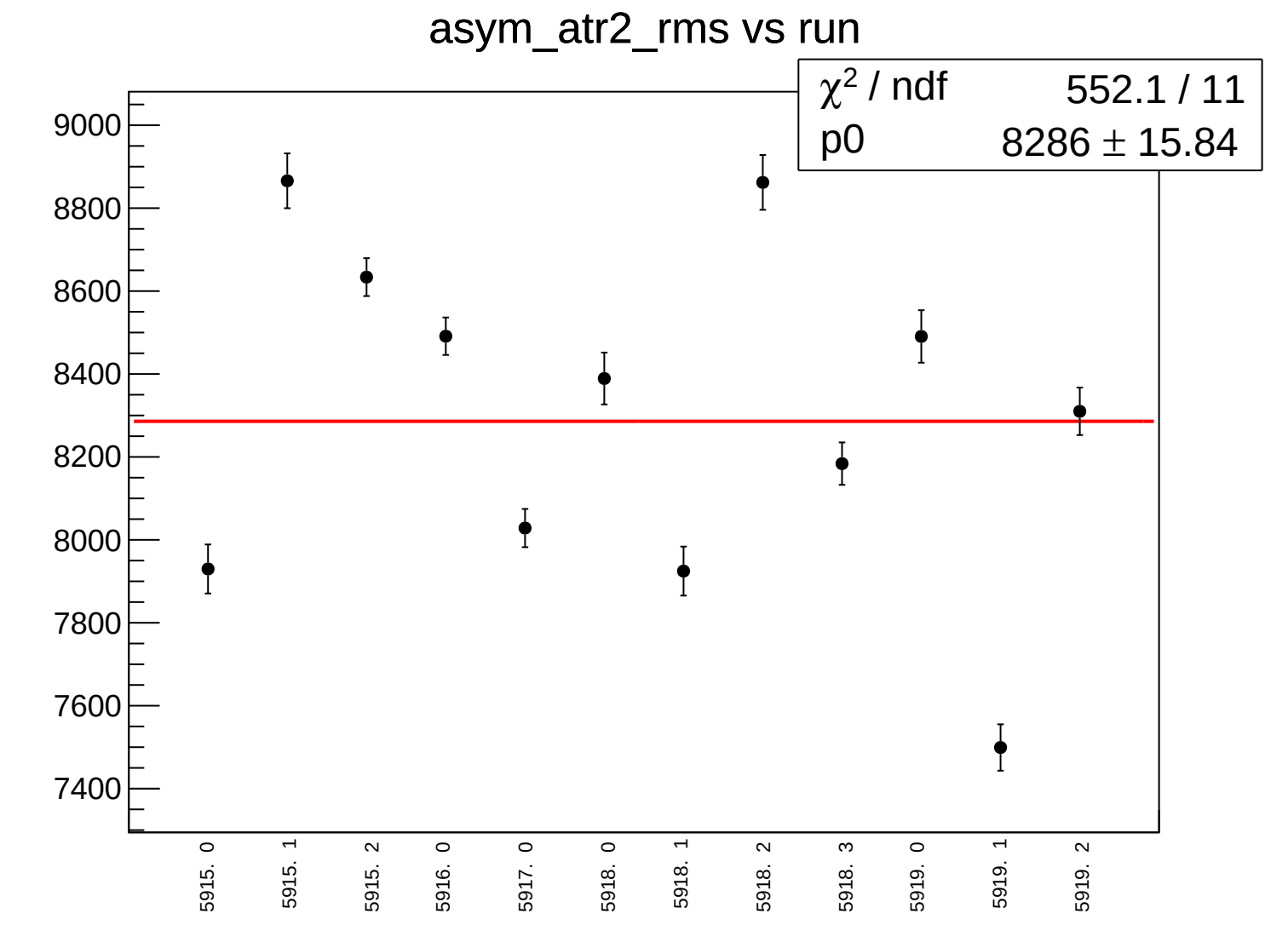

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 17.44 / 11
p0 −2.339e+04 ± 2.121e+04
200
100
0
−100
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.39
Std Dev 8.873
2
1
0
−1
−2

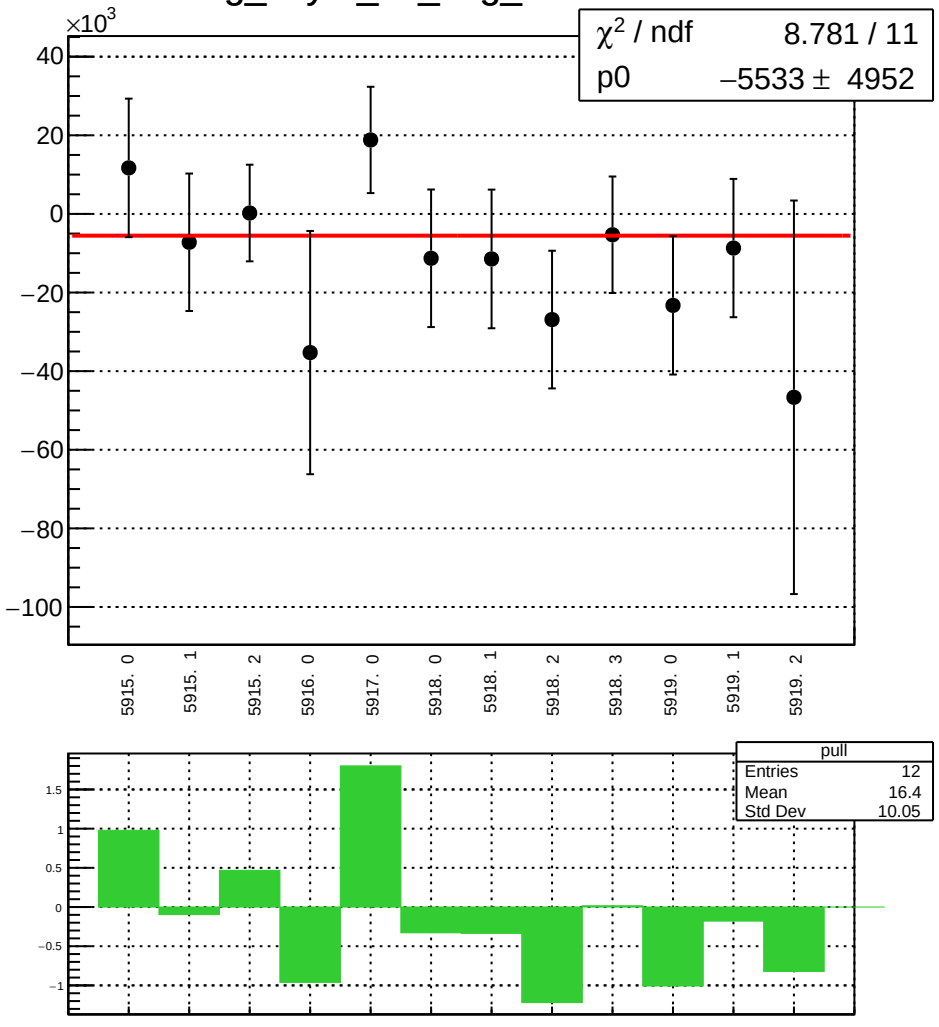

pull1D
Entries 12
Mean 0.09196
Std Dev 1.202
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

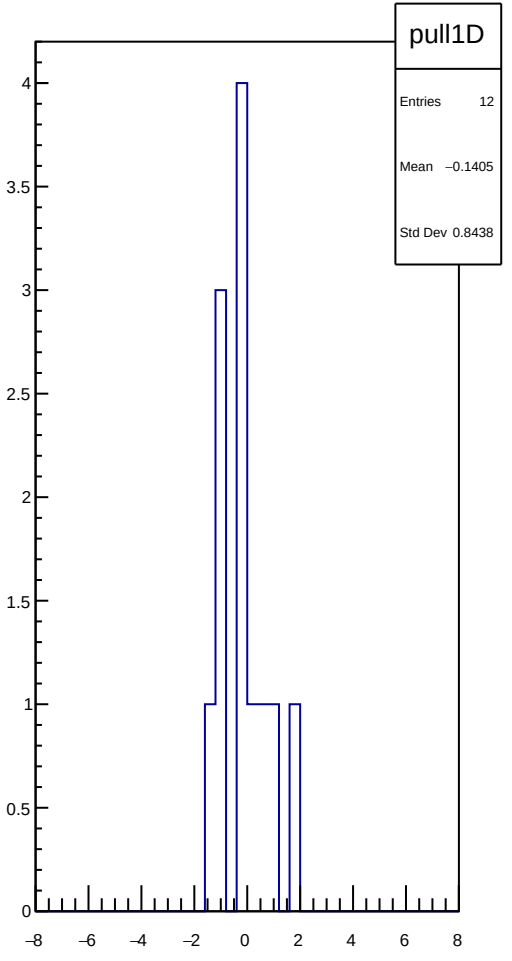

asym_atr2_correction_rms vs run
χ² / ndf 692.7 / 11
p0 7840 ± 14.99
8600
8400
8200
8000
7800
7600
7400
7200
7000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

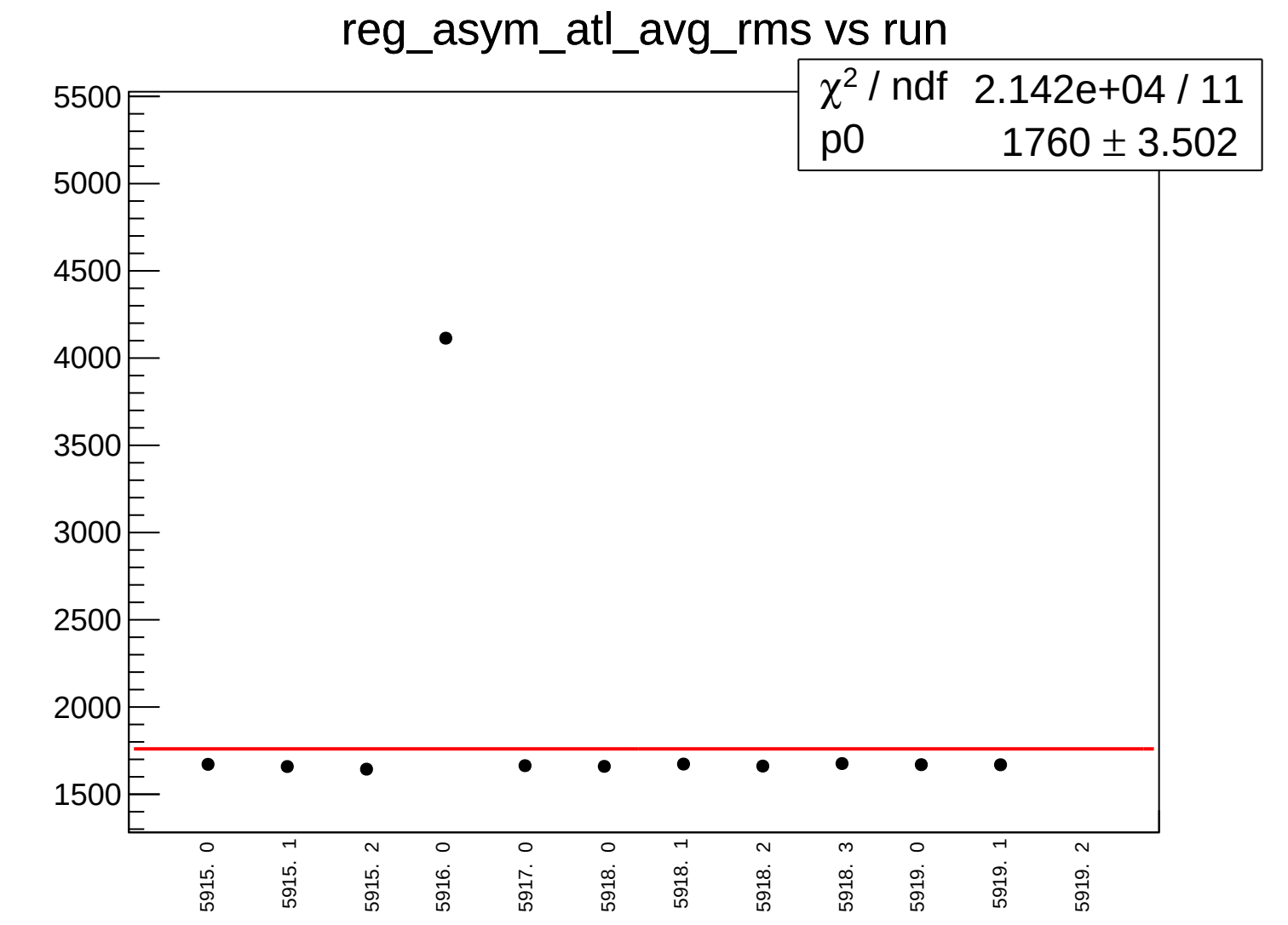

asym_atr2_mean vs run
×10^3
χ² / ndf 12.48 / 11
p0 2.99e+04 ± 2.241e+04
200
100
0
−100
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.77
Std Dev 13.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

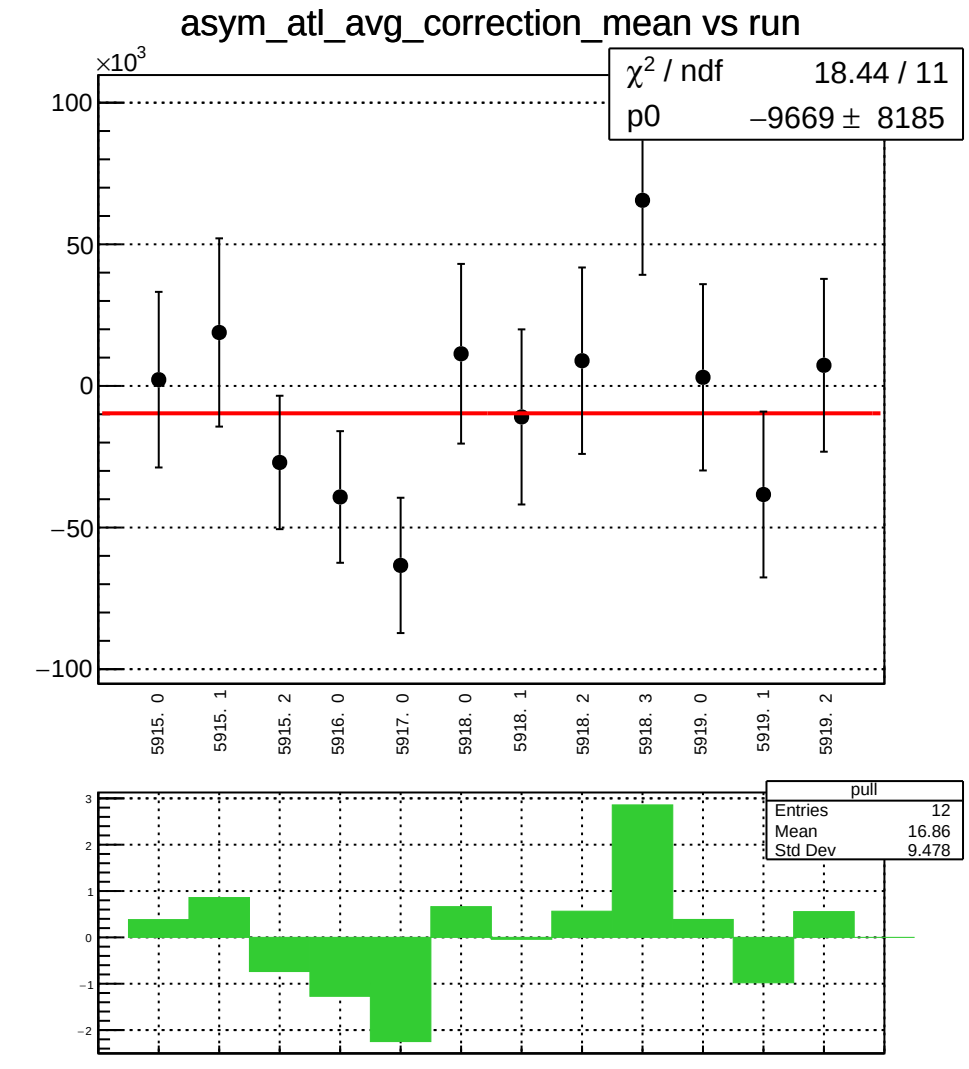

pull1D
Entries 12
Mean −0.07874
Std Dev 1.017
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

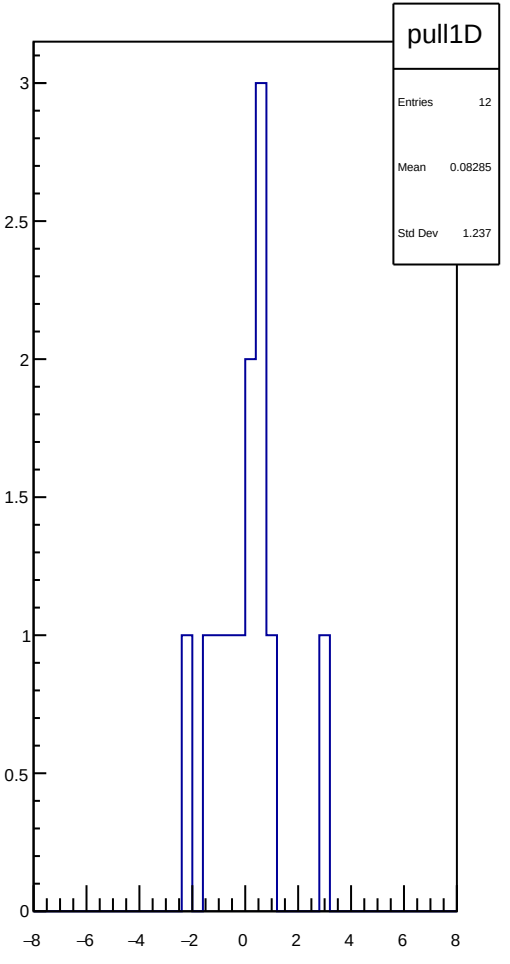

asym_atr2_rms vs run
χ² / ndf 552.1 / 11
p0 8286 ± 15.84
9000
8800
8600
8400
8200
8000
7800
7600
7400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

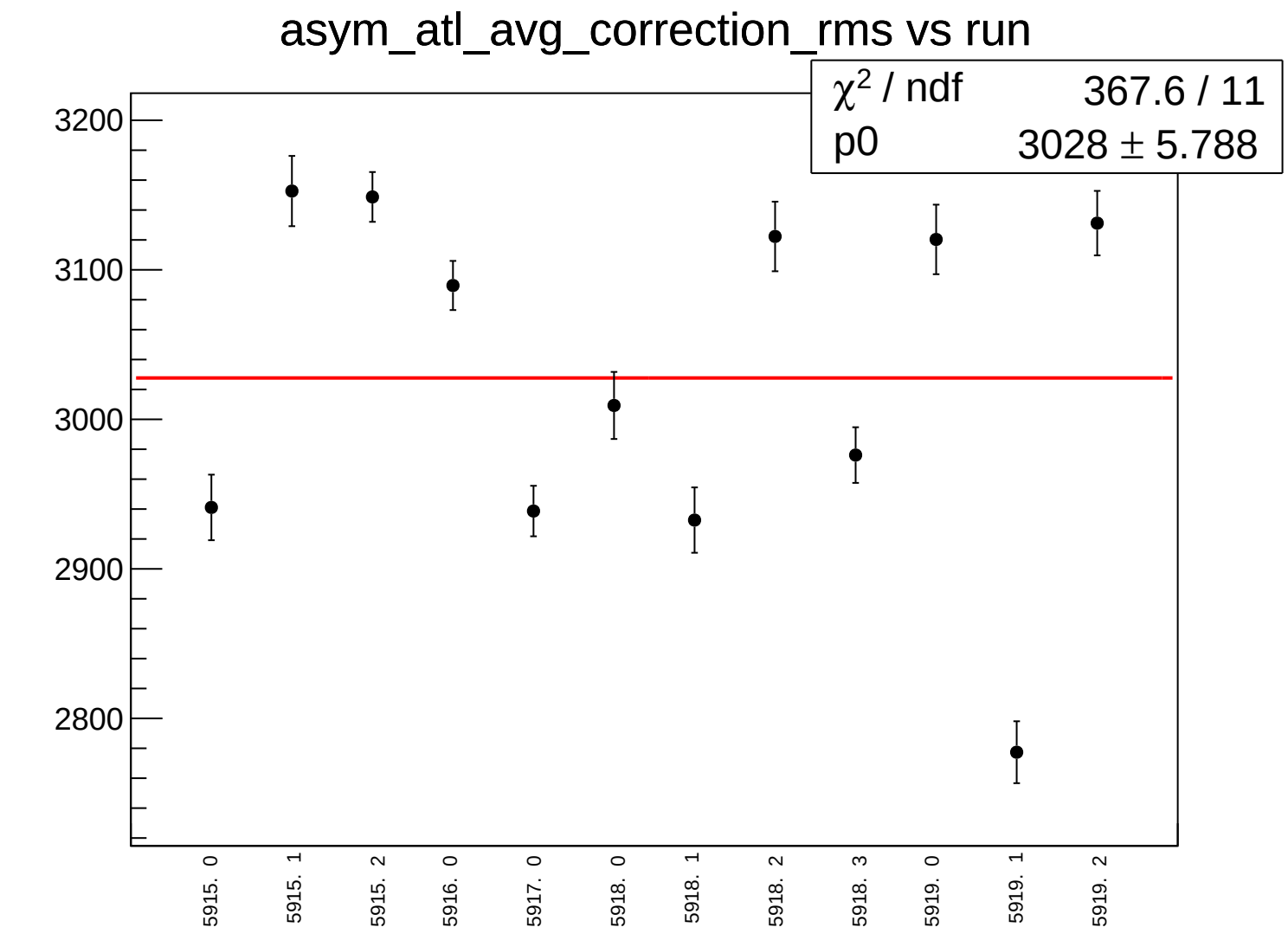

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 8.781 / 11
p0 −5533 ± 4952
40
20
0
−20
−40
−60
−80
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.4
Std Dev 10.05
1.5
1
0.5
0
−0.5
−1

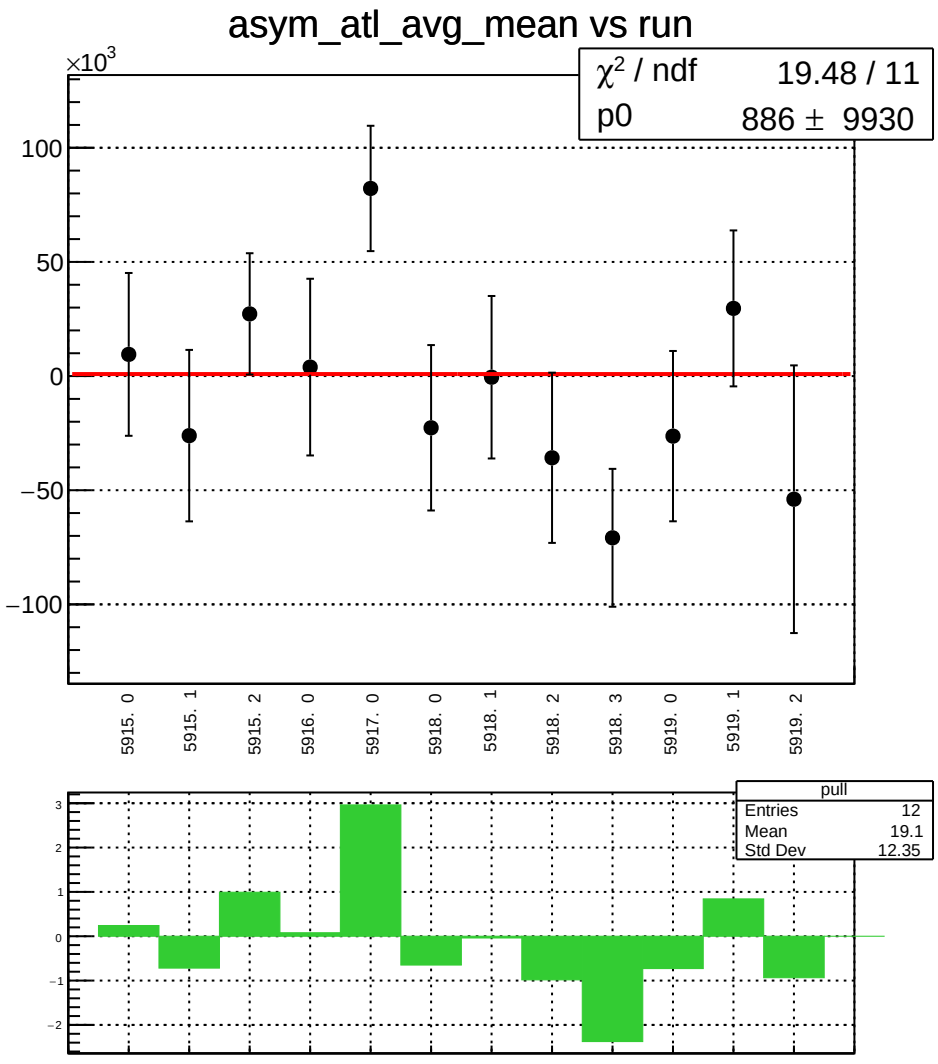

pull1D
Entries 12
Mean −0.1405
Std Dev 0.8438
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

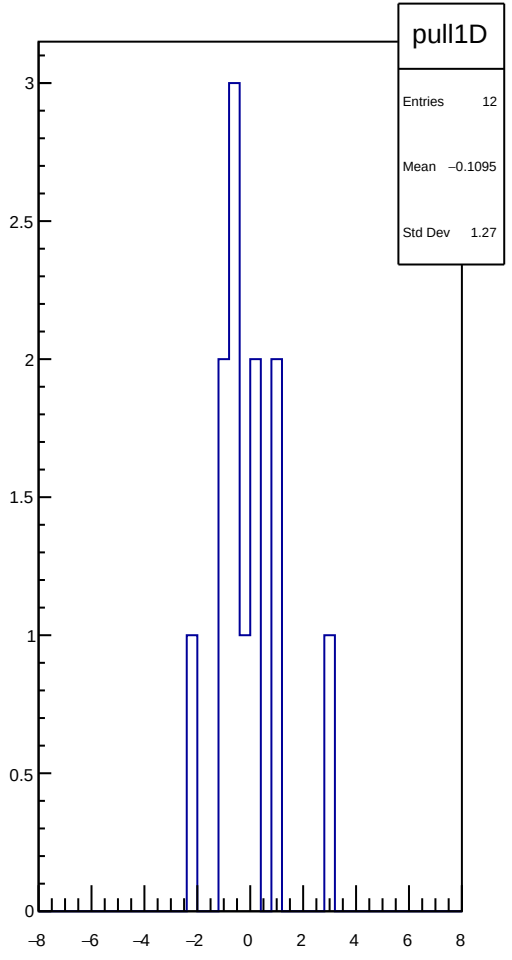

reg_asym_atl_avg_rms vs run
χ² / ndf 2.142e+04 / 11
p0 1760 ± 3.502
5500
5000
4500
4000
3500
3000
2500
2000
1500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

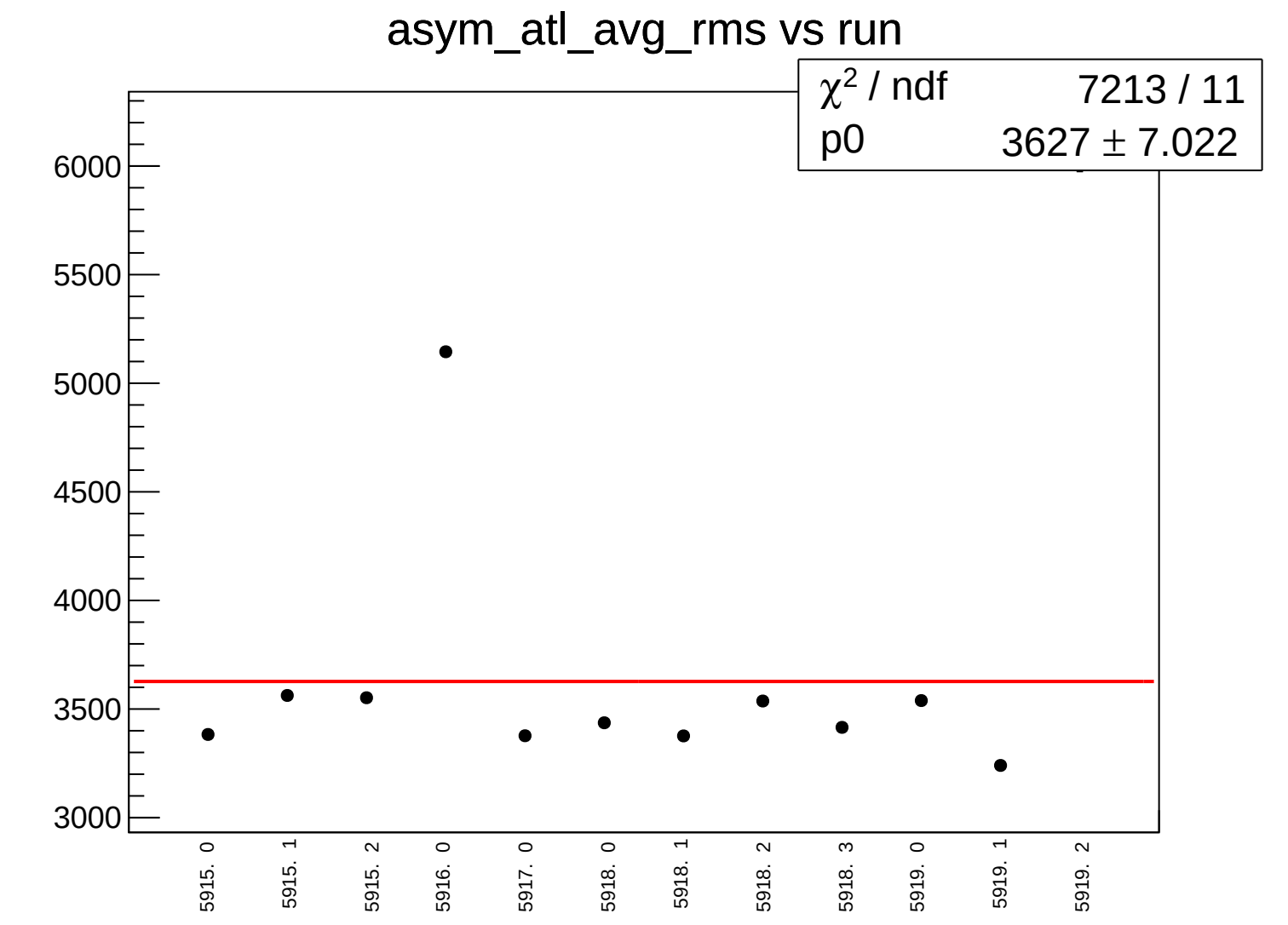

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 18.44 / 11
p0 −9669 ± 8185
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.86
Std Dev 9.478
3
2
1
0
−1
−2

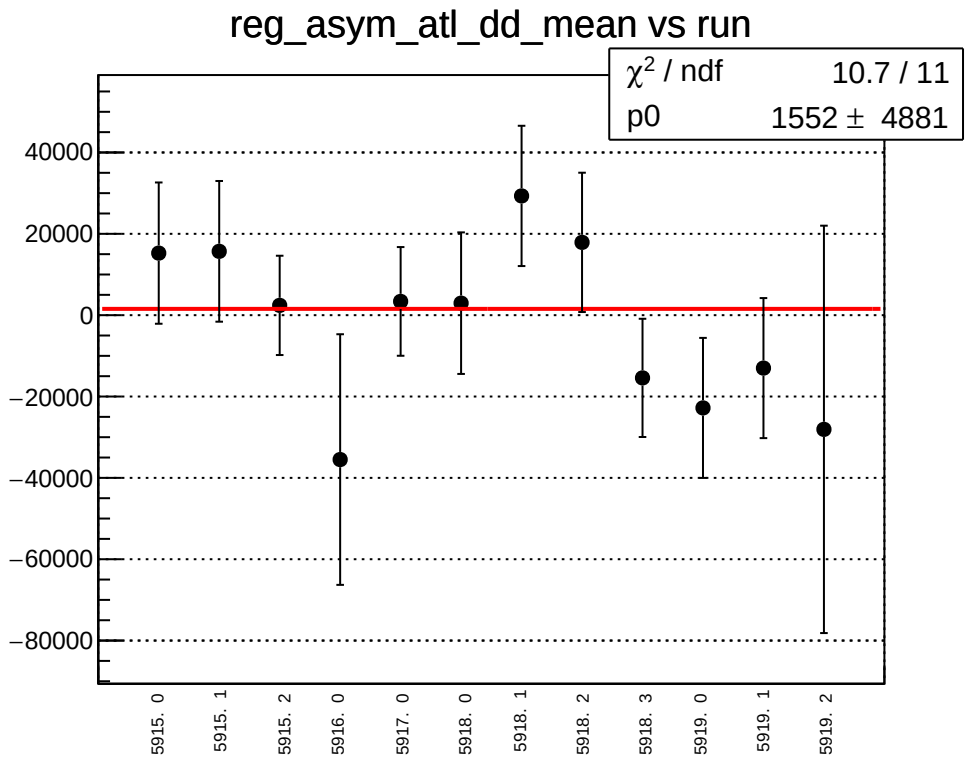

pull1D
Entries 12
Mean 0.08285
Std Dev 1.237
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

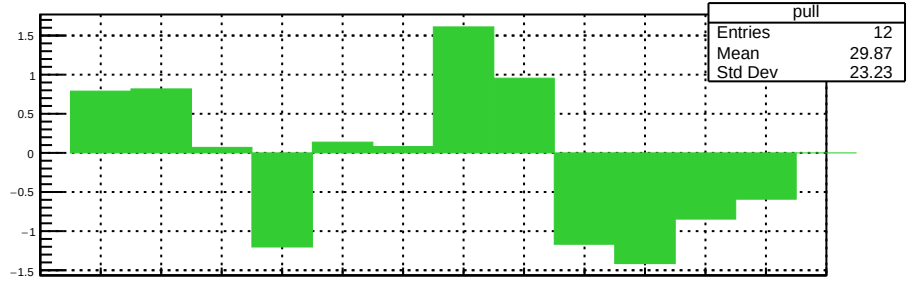

asym_atl_avg_correction_rms vs run
χ² / ndf 367.6 / 11
p0 3028 ± 5.788
3200
3100
3000
2900
2800
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

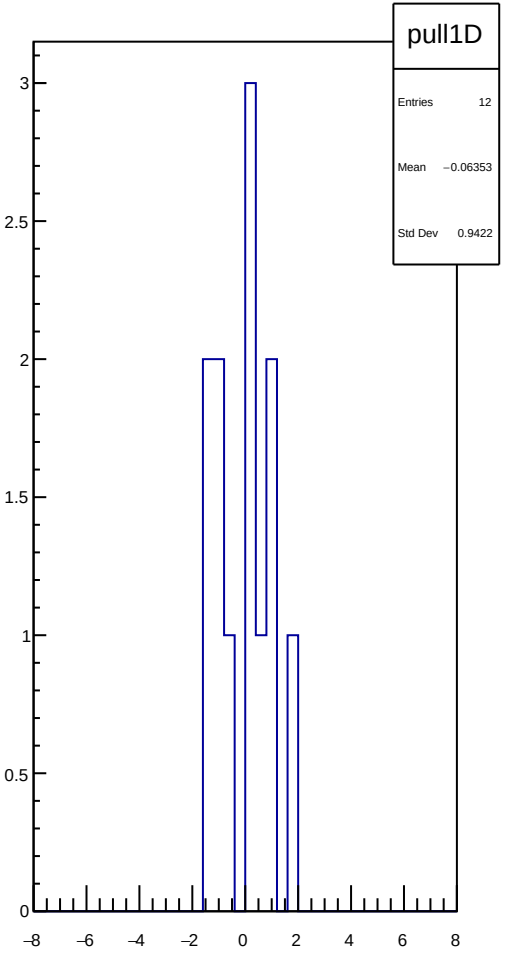

asym_atl_avg_mean vs run
×10^3
χ² / ndf 19.48 / 11
p0 886 ± 9930
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.1
Std Dev 12.35
3
2
1
0
−1
−2

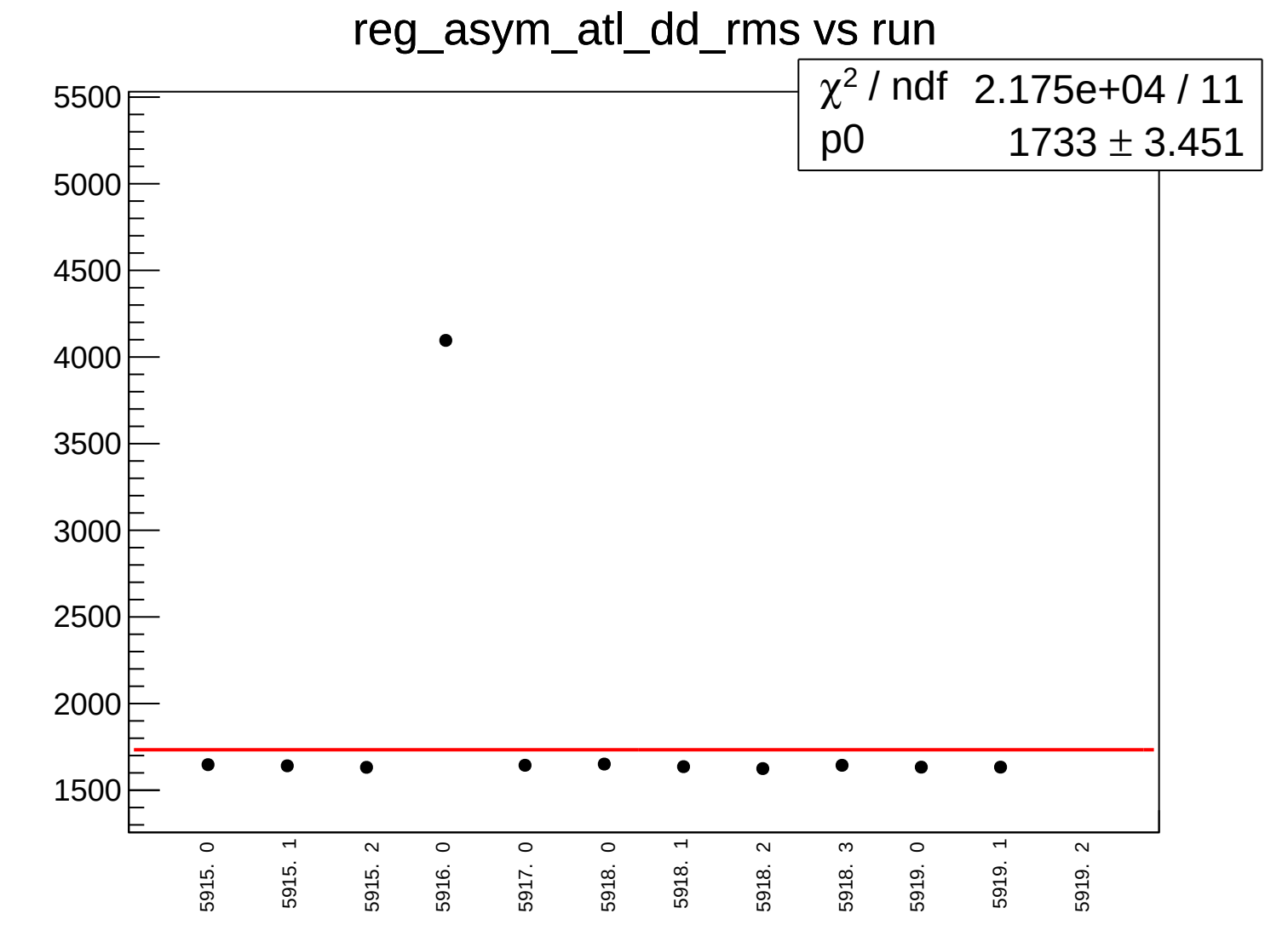

pull1D
Entries 12
Mean −0.1095
Std Dev 1.27
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

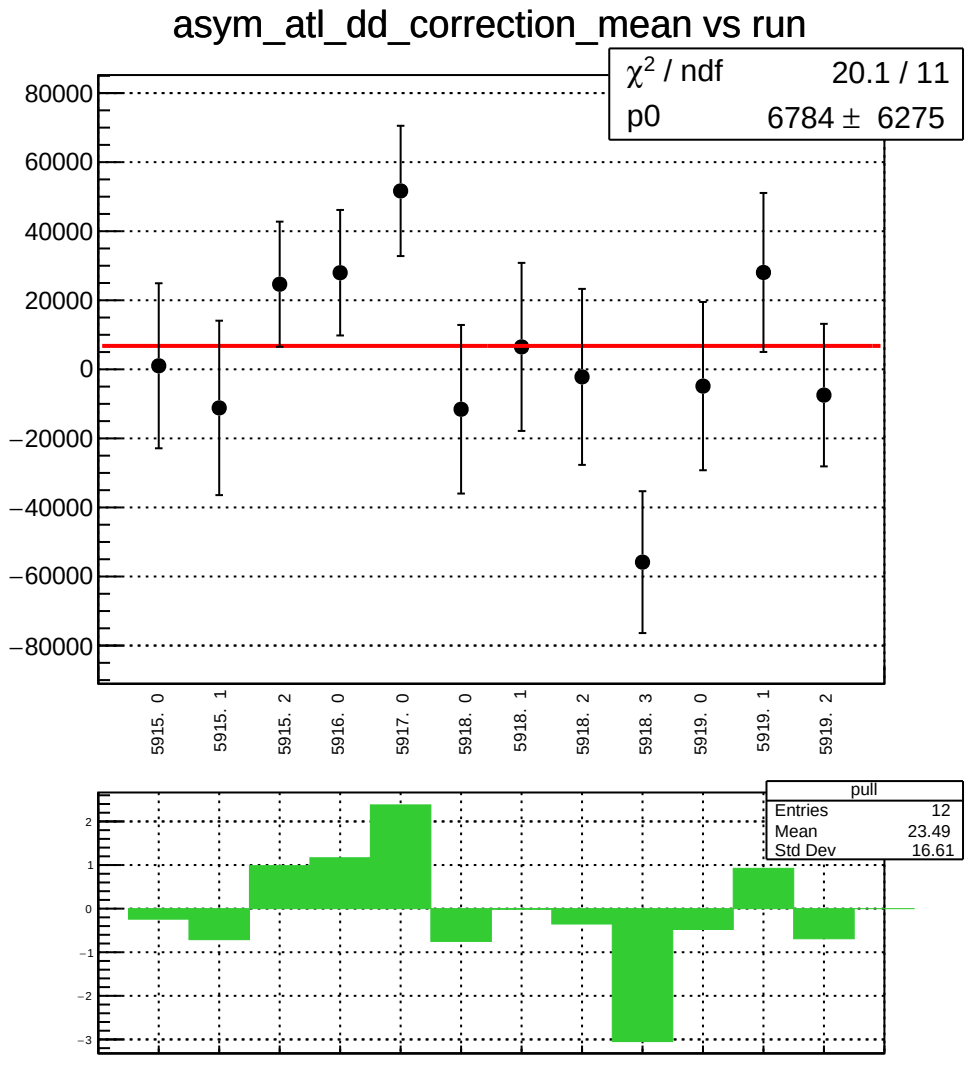

asym_atl_avg_rms vs run
χ² / ndf 7213 / 11
p0 3627 ± 7.022
6000
5500
5000
4500
4000
3500
3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

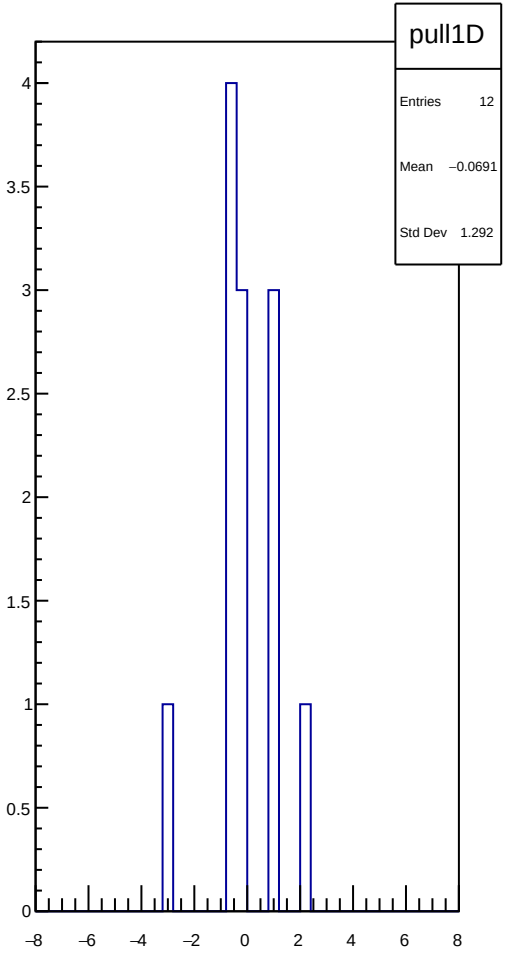

reg_asym_atl_dd_mean vs run
χ² / ndf 10.7 / 11
p0 1552 ± 4881
40000
20000
0
−20000
−40000
−60000
−80000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

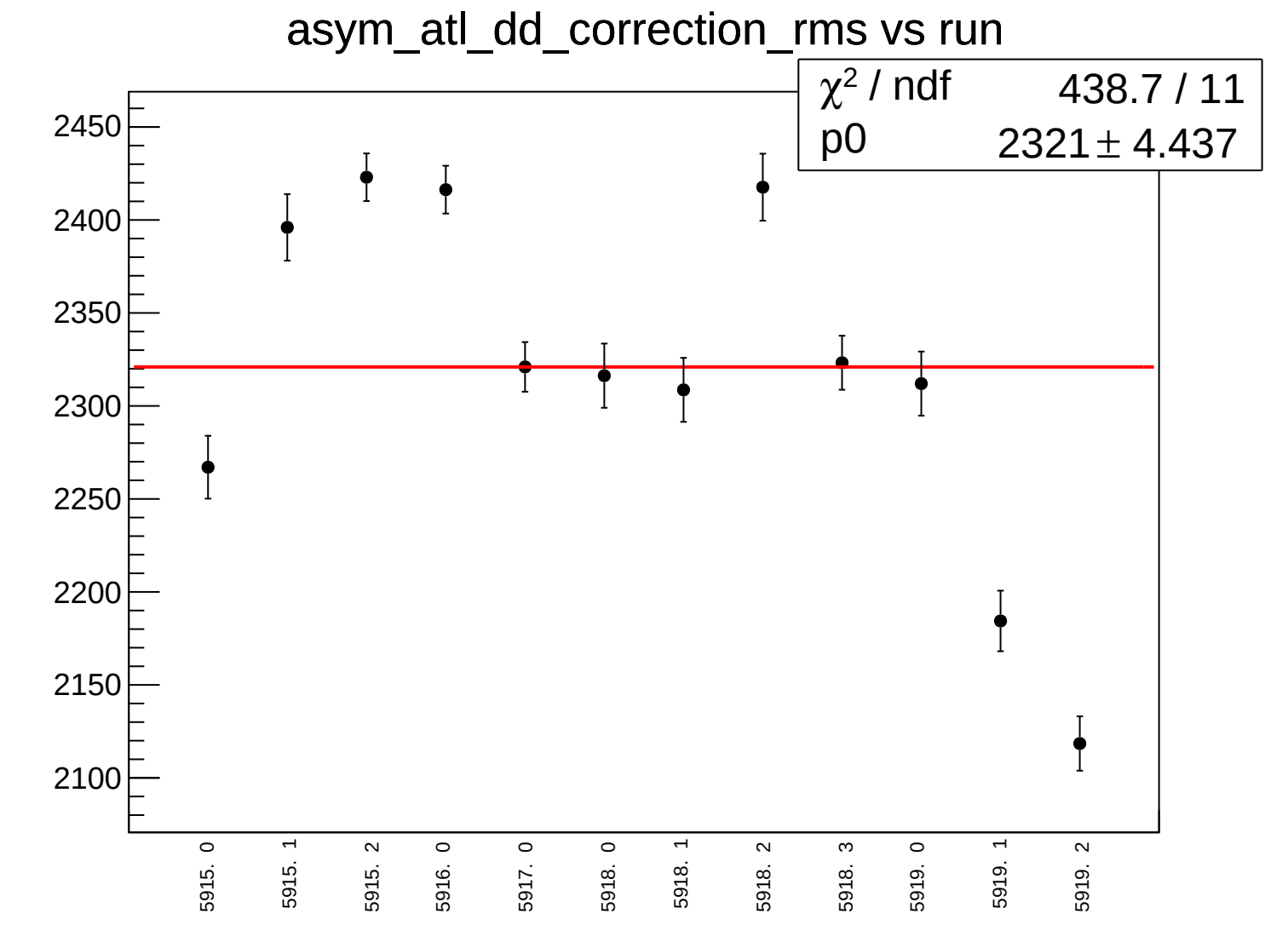

pull
Entries 12
Mean 29.87
Std Dev 23.23
1.5
1
0.5
0
−0.5
−1
−1.5

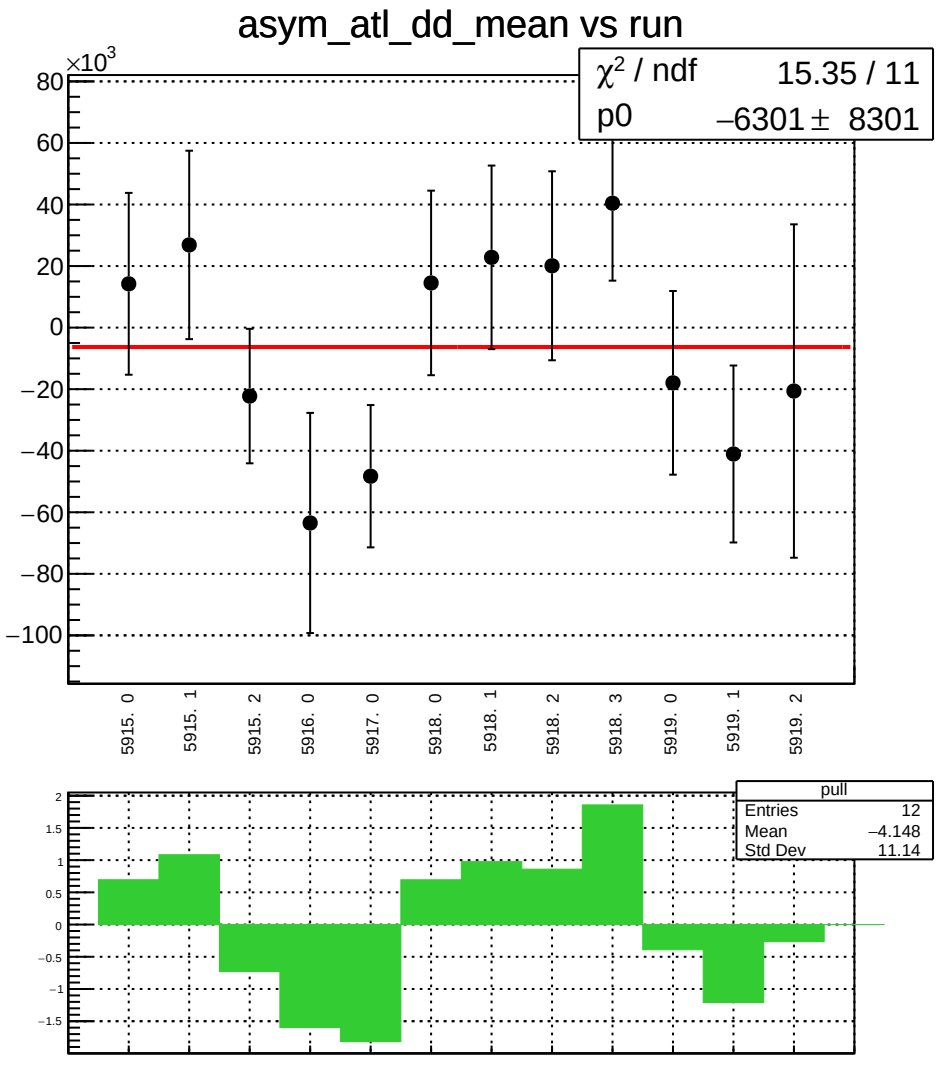

pull1D
Entries 12
Mean −0.06353
Std Dev 0.9422
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

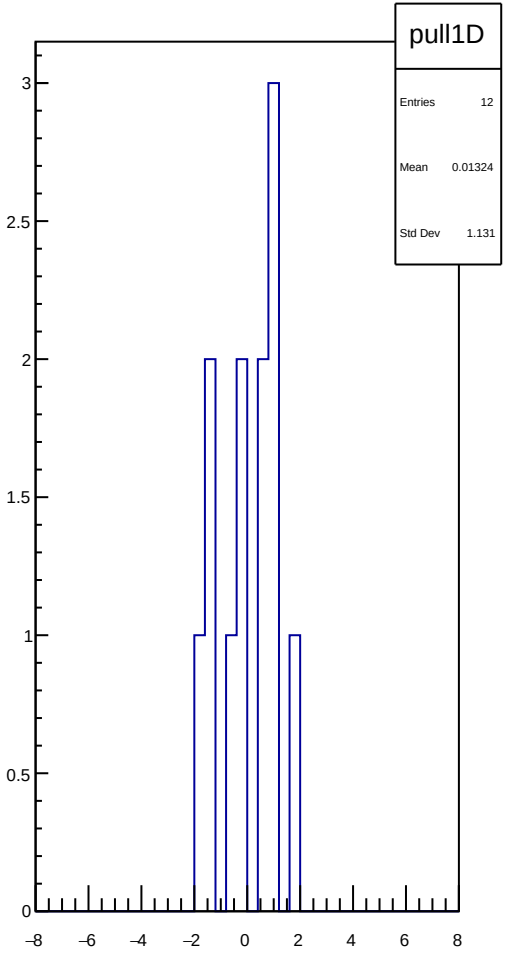

reg_asym_atl_dd_rms vs run
χ^2 / ndf 2.175e+04 / 11
p0 1733 ± 3.451
5500
5000
4500
4000
3500
3000
2500
2000
1500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

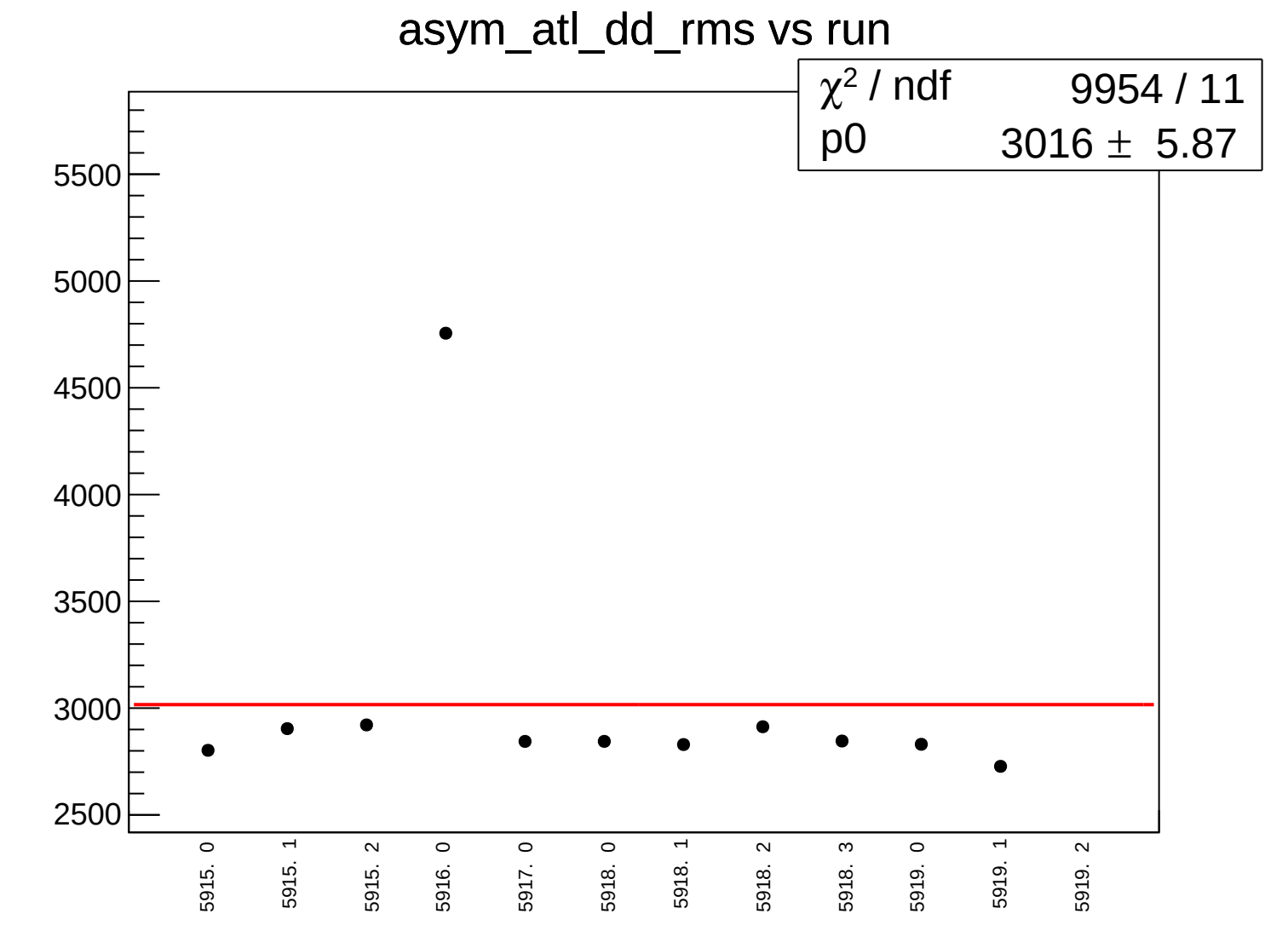

asym_atl_dd_correction_mean vs run
χ² / ndf 20.1 / 11
p0 6784 ± 6275
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 23.49
Std Dev 16.61
2
1
0
−1
−2
−3

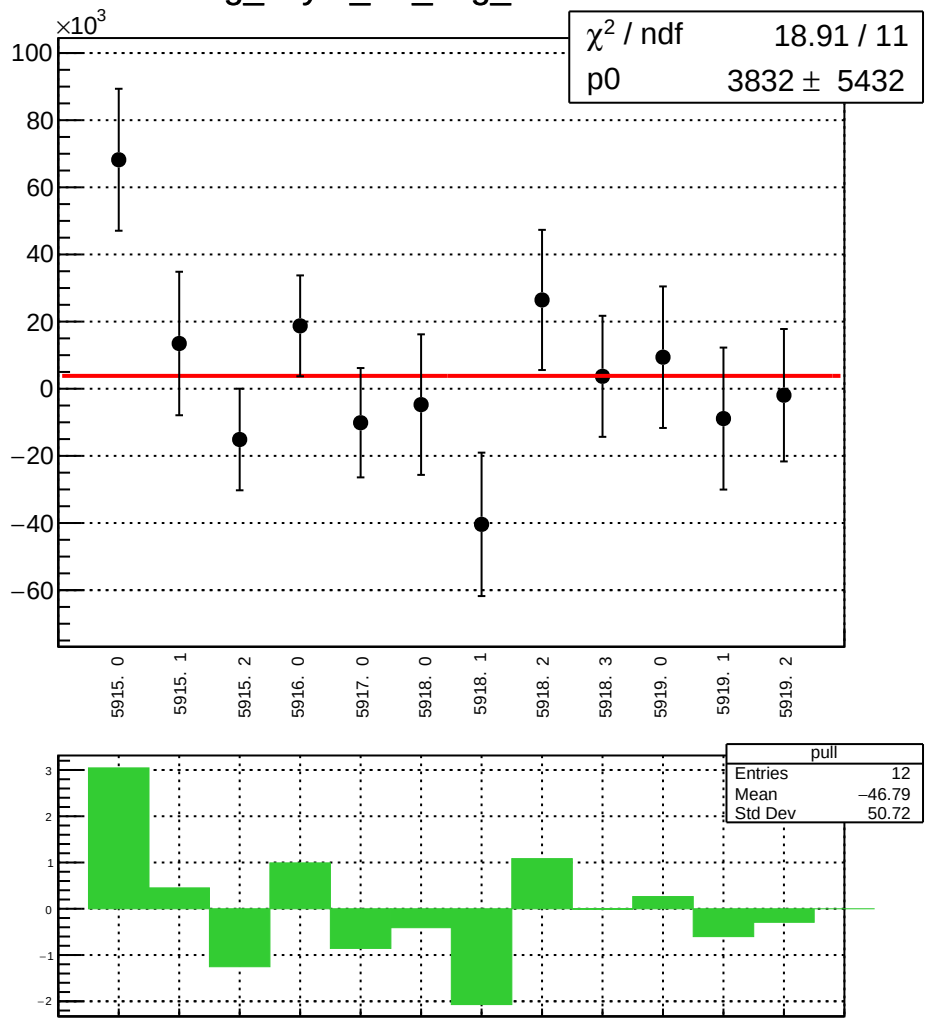

pull1D
Entries 12
Mean −0.0691
Std Dev 1.292
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

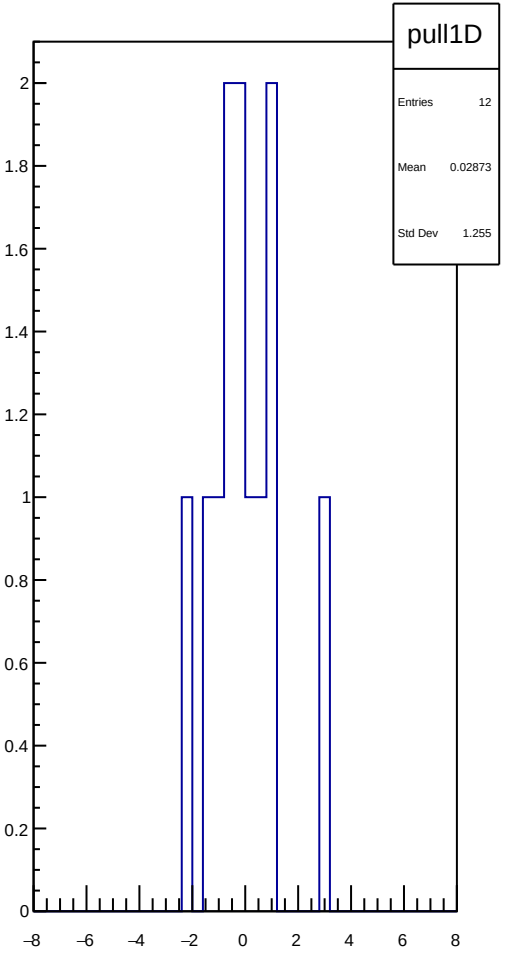

asym_atl_dd_correction_rms vs run
χ² / ndf 438.7 / 11
p0 2321 ± 4.437
2450
2400
2350
2300
2250
2200
2150
2100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

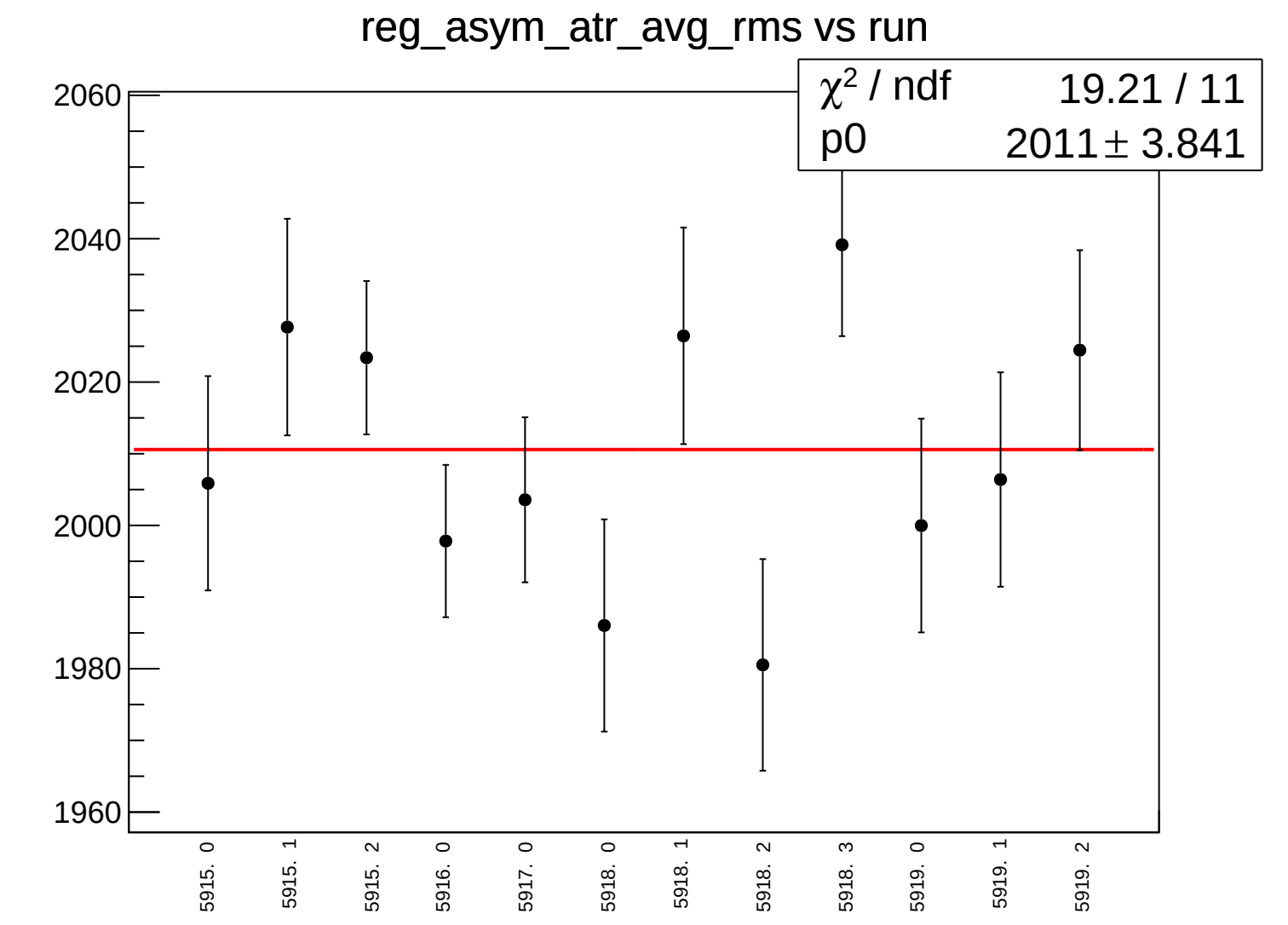

asym_atl_dd_mean vs run
×10^3
χ² / ndf 15.35 / 11
p0 −6301 ± 8301
80
60
40
20
0
−20
−40
−60
−80
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −4.148
Std Dev 11.14
2
1.5
1
0.5
0
−0.5
−1
−1.5

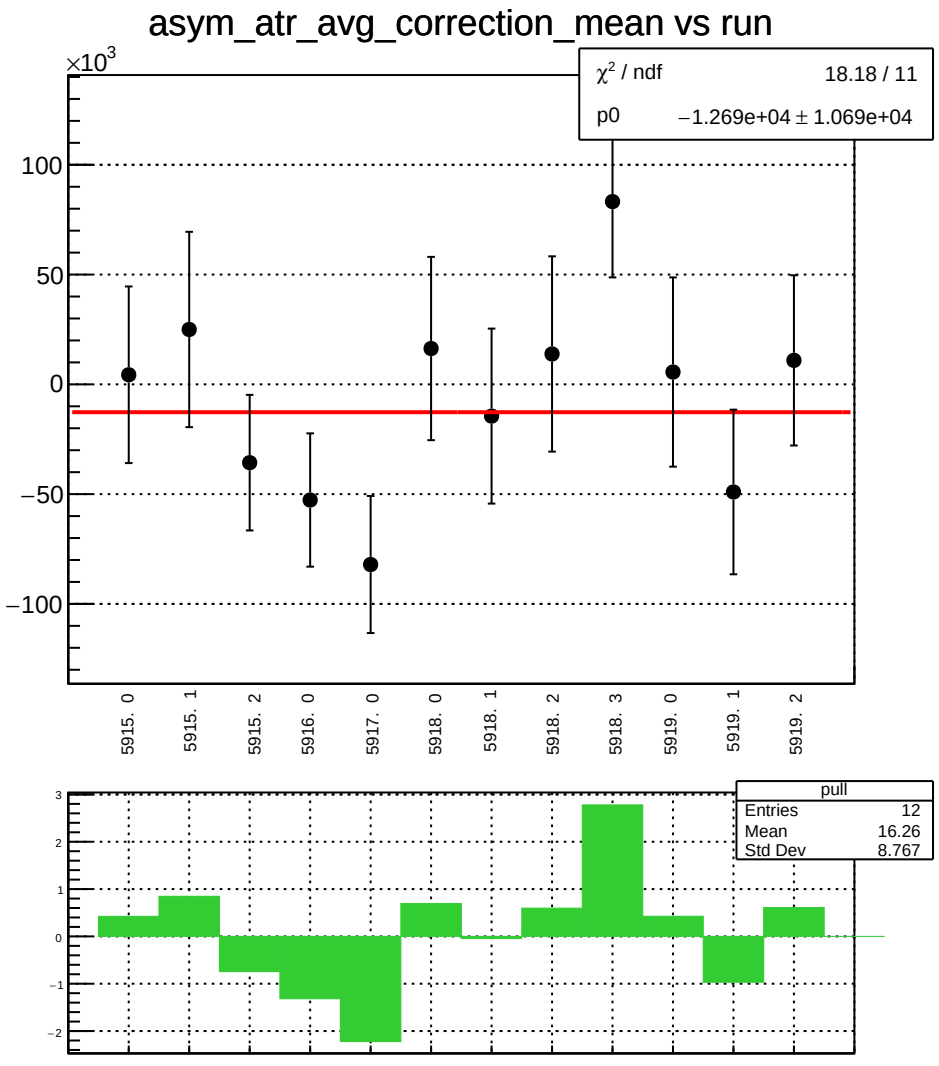

pull1D
Entries 12
Mean 0.01324
Std Dev 1.131
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

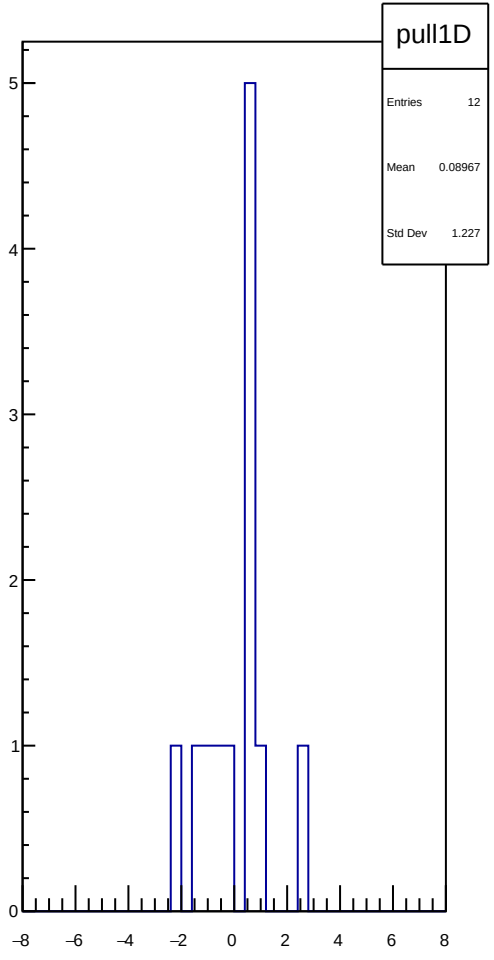

asym_atl_dd_rms vs run
χ² / ndf 9954 / 11
p0 3016 ± 5.87
5500
5000
4500
4000
3500
3000
2500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

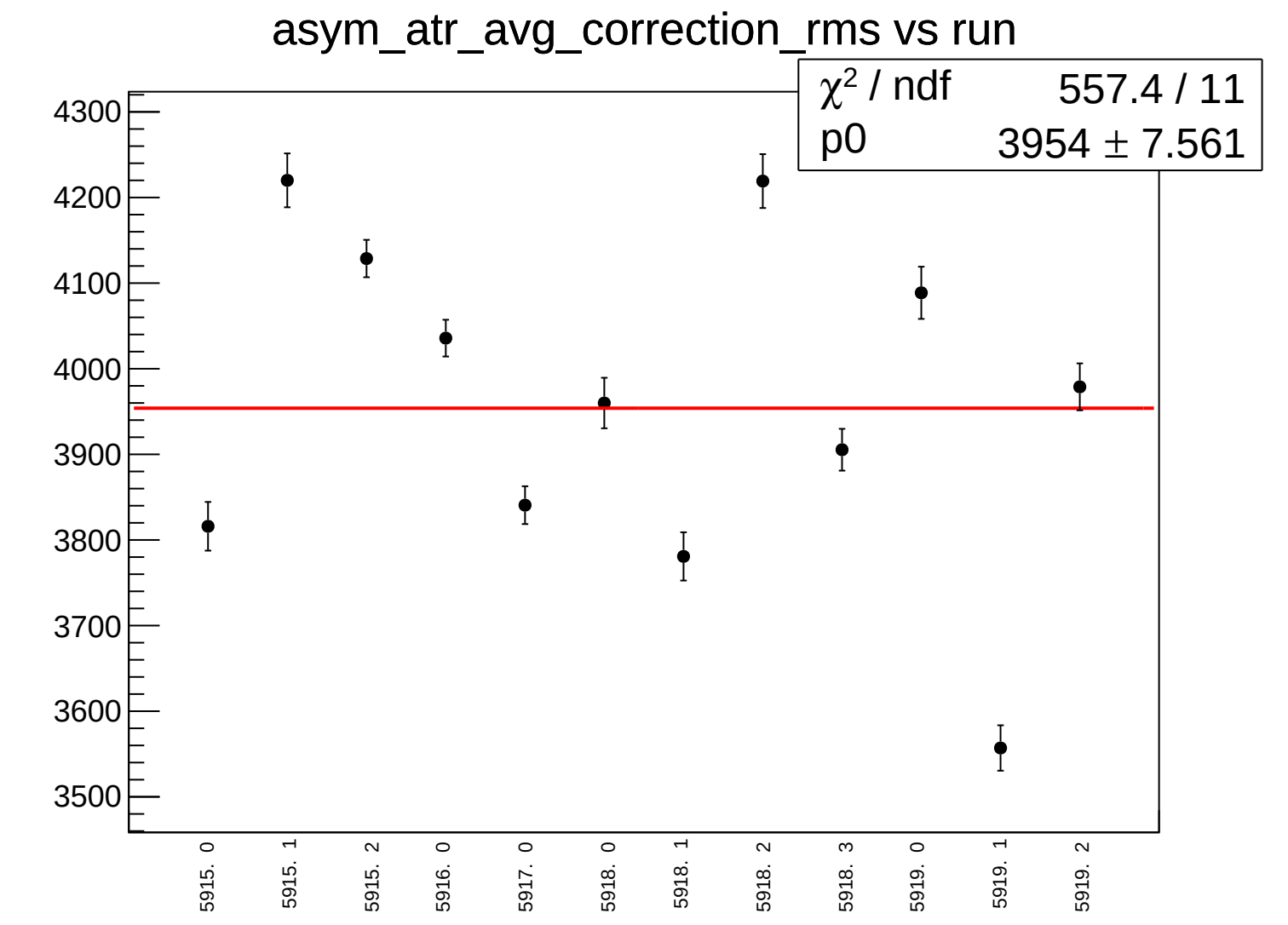

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 18.91 / 11
p0 3832 ± 5432
100
80
60
40
20
0
−20
−40
−60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −46.79
Std Dev 50.72
3
2
1
0
−1
−2

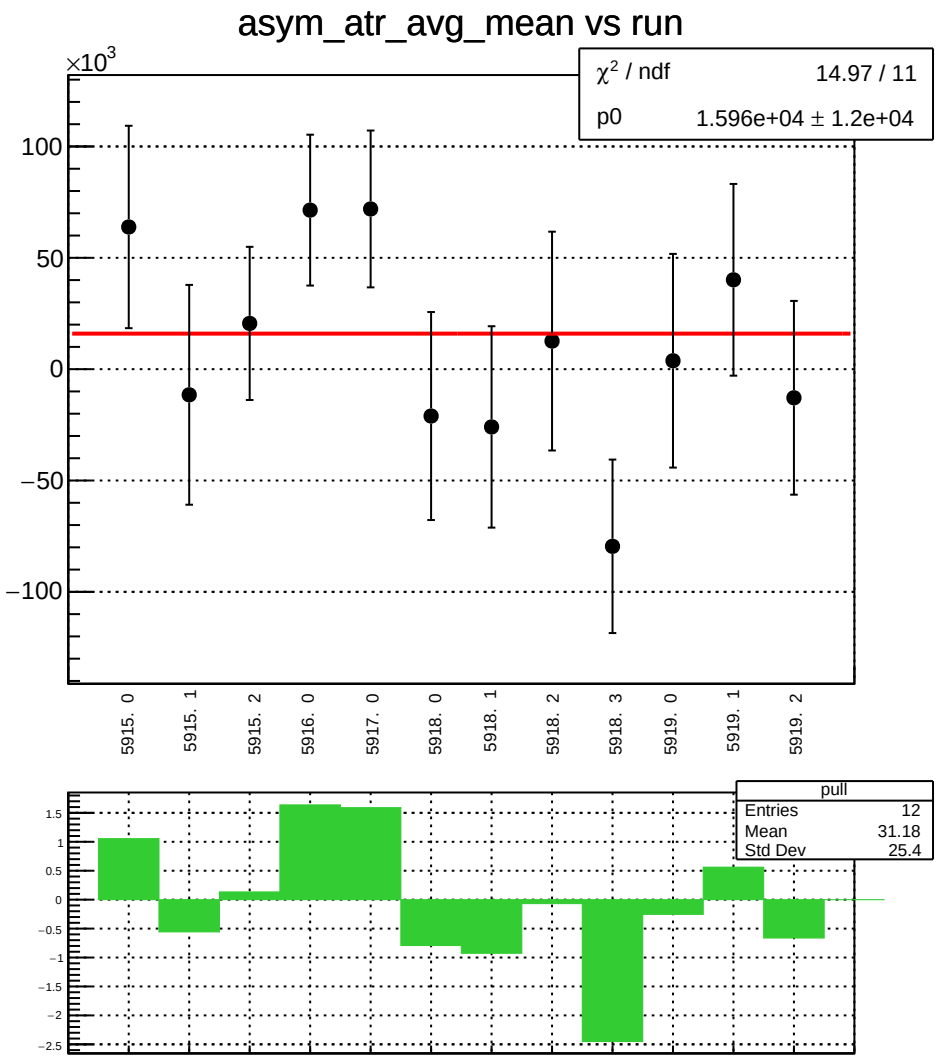

pull1D
Entries 12
Mean 0.02873
Std Dev 1.255
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

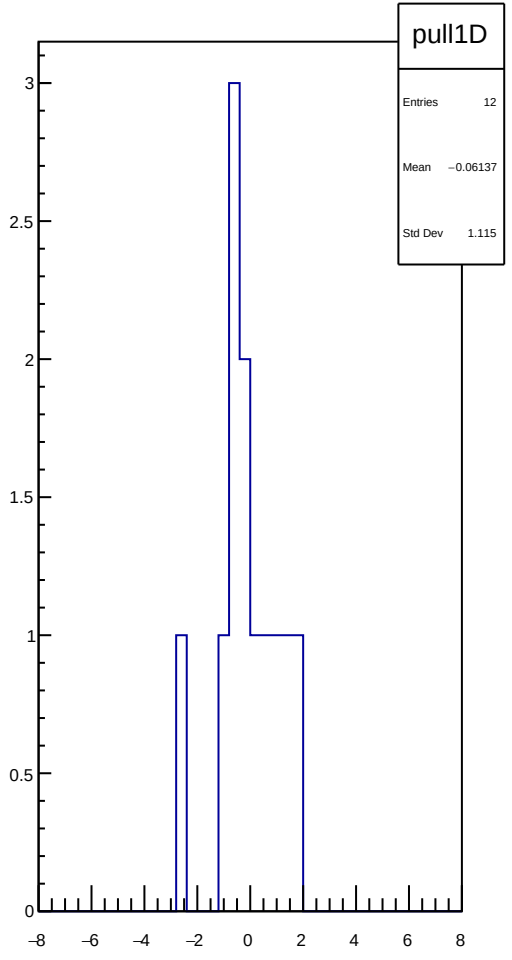

reg_asym_atr_avg_rms vs run
χ² / ndf 19.21 / 11
p0 2011 ± 3.841
2060
2040
2020
2000
1980
1960
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

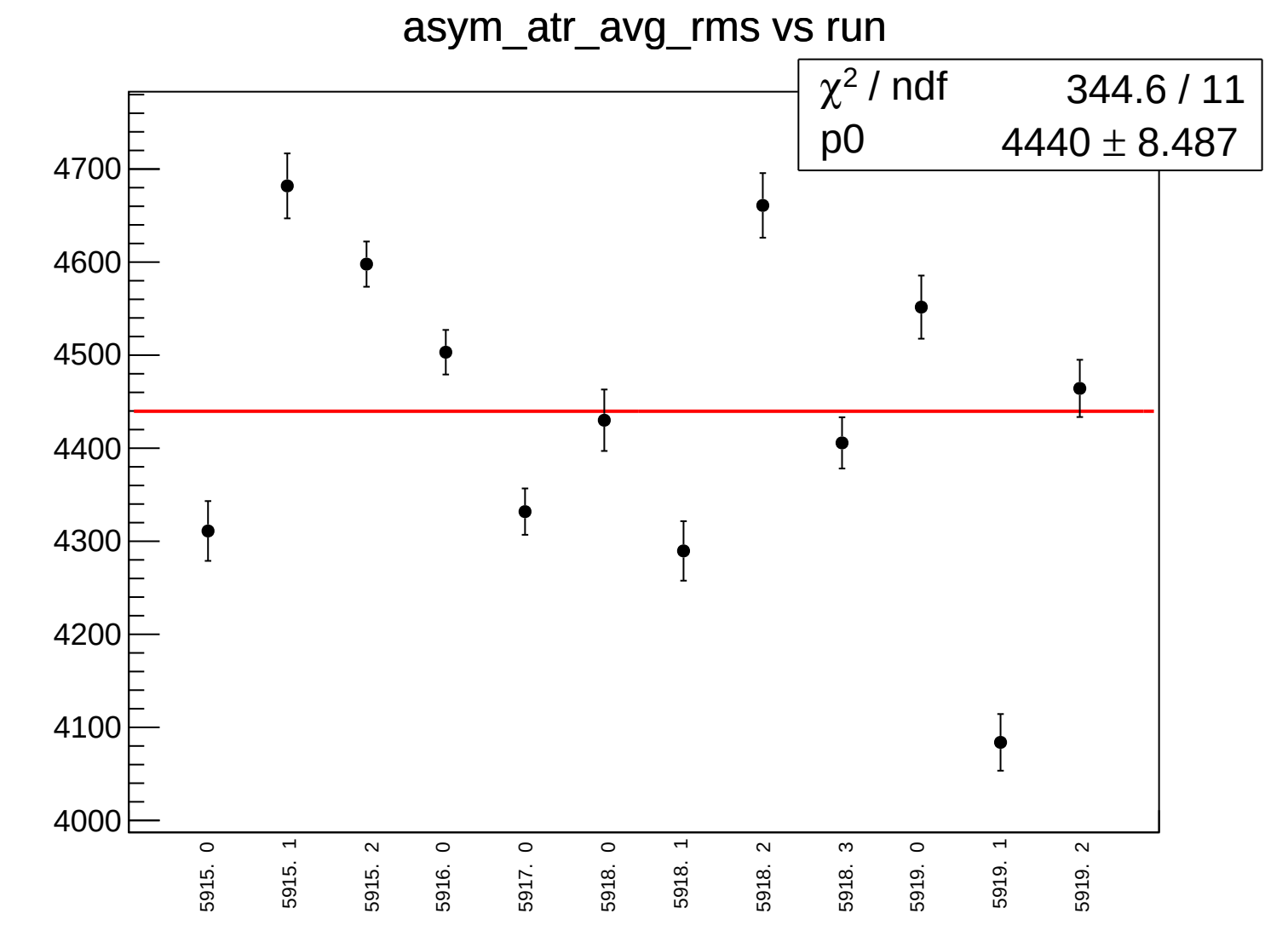

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 18.18 / 11
p0 −1.269e+04 ± 1.069e+04
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.26
Std Dev 8.767
3
2
1
0
−1
−2

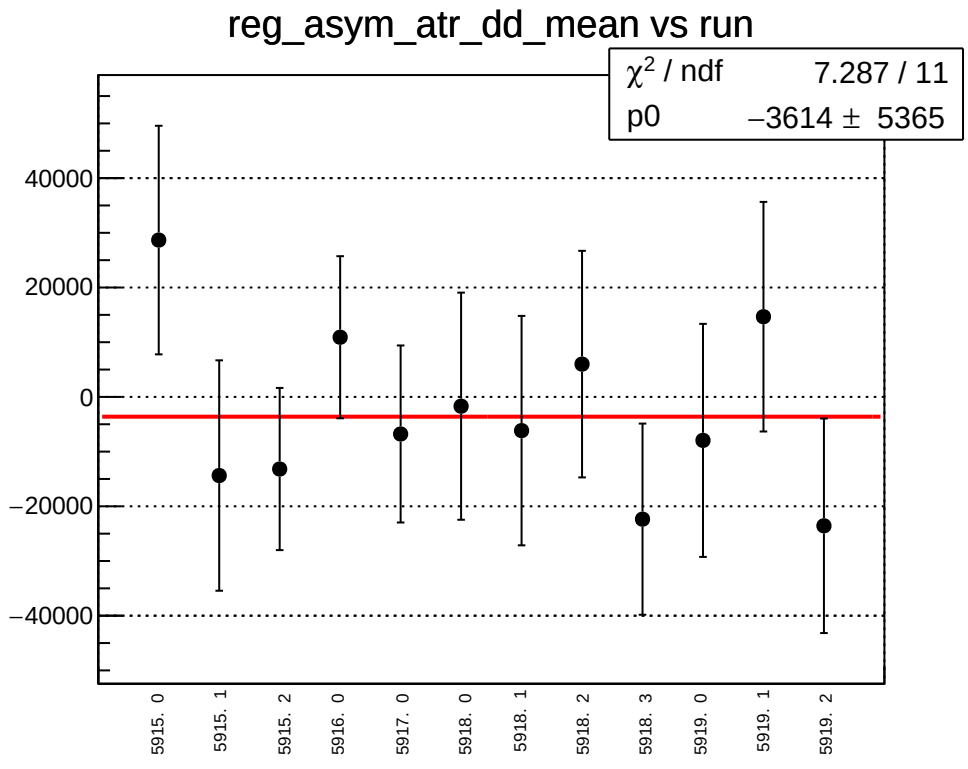

pull1D
Entries 12
Mean 0.08967
Std Dev 1.227
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

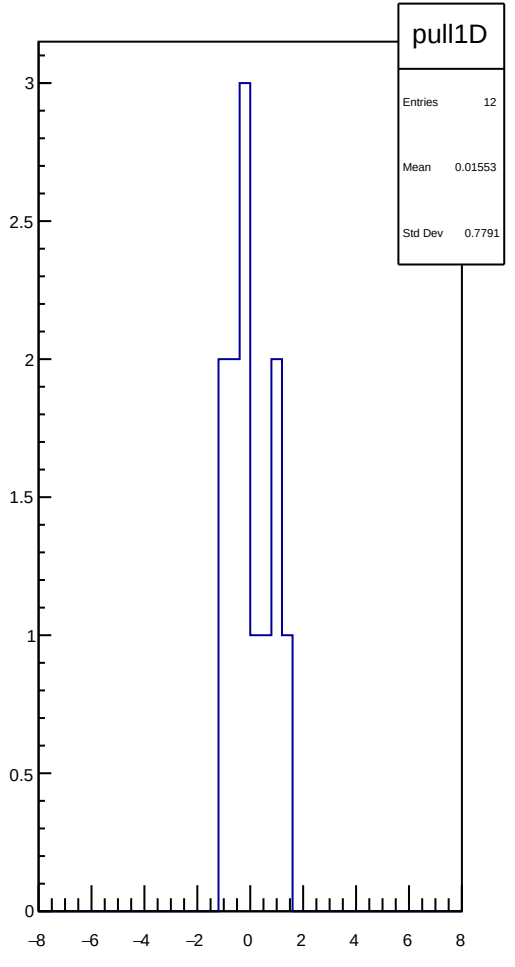

asym_atr_avg_correction_rms vs run
χ² / ndf 557.4 / 11
p0 3954 ± 7.561
4300
4200
4100
4000
3900
3800
3700
3600
3500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

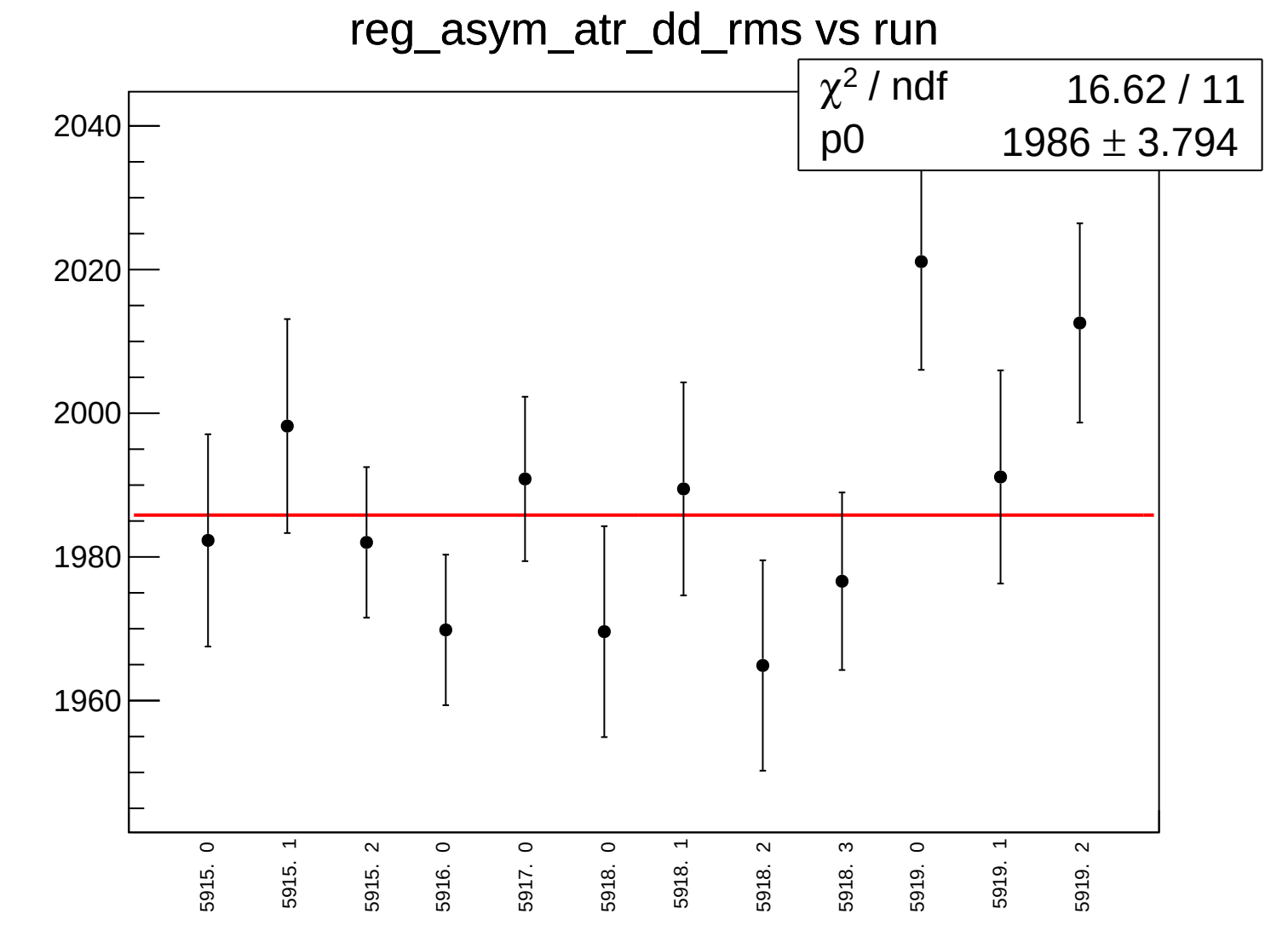

asym_atr_avg_mean vs run
×10^3
χ² / ndf 14.97 / 11
p0 1.596e+04 ± 1.2e+04
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 31.18
Std Dev 25.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

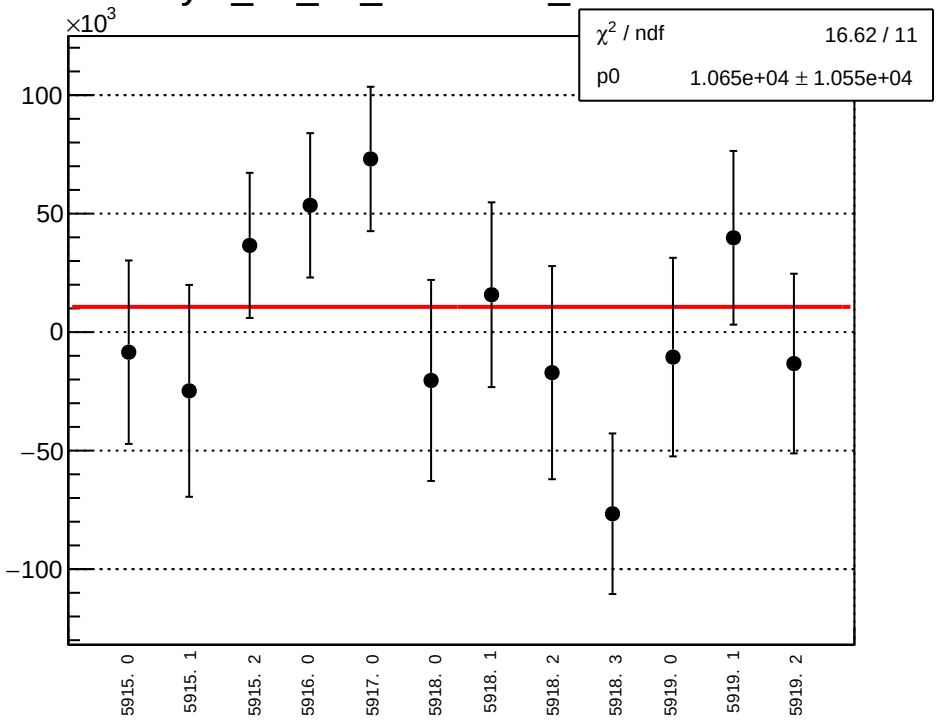

pull1D
Entries 12
Mean −0.06137
Std Dev 1.115
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

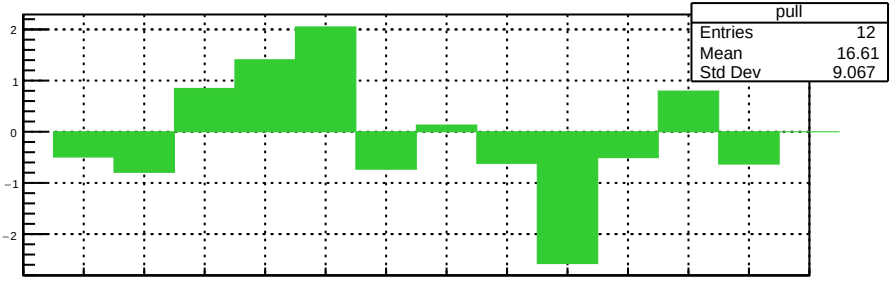

asym_atr_avg_rms vs run
χ² / ndf 344.6 / 11
p0 4440 ± 8.487
4700
4600
4500
4400
4300
4200
4100
4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

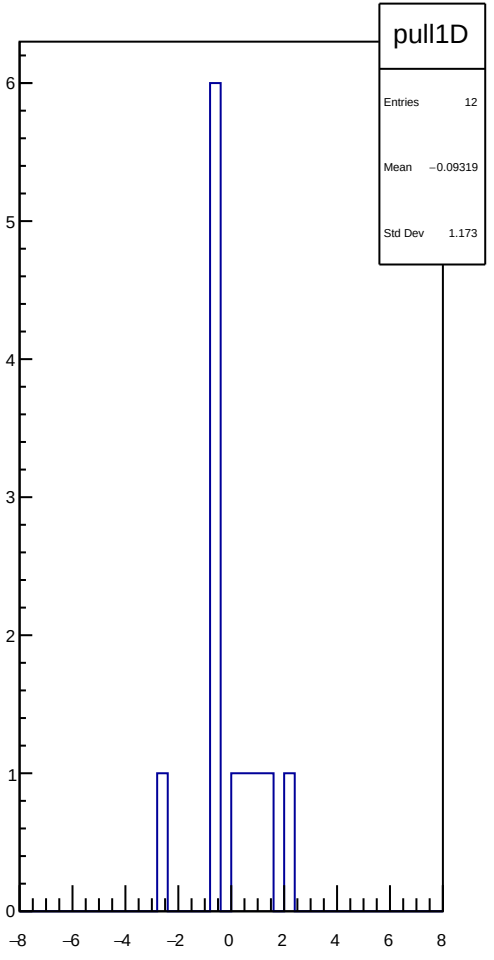

reg_asym_atr_dd_mean vs run
χ² / ndf 7.287 / 11
p0 −3614 ± 5365
40000
20000
0
−20000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −50.76
Std Dev 56.14
1.5
1
0.5
0
−0.5
−1

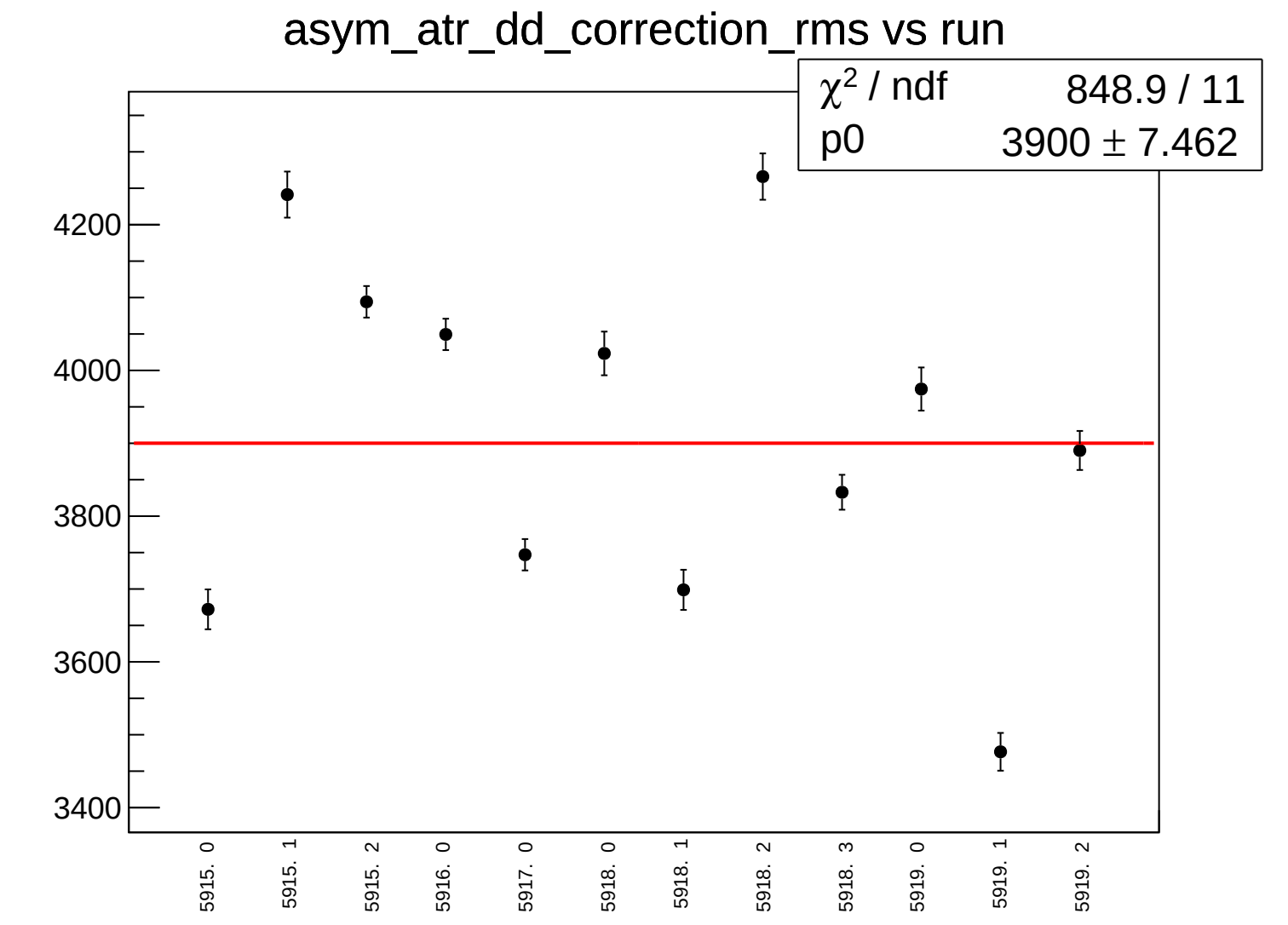

pull1D
Entries 12
Mean 0.01553
Std Dev 0.7791
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

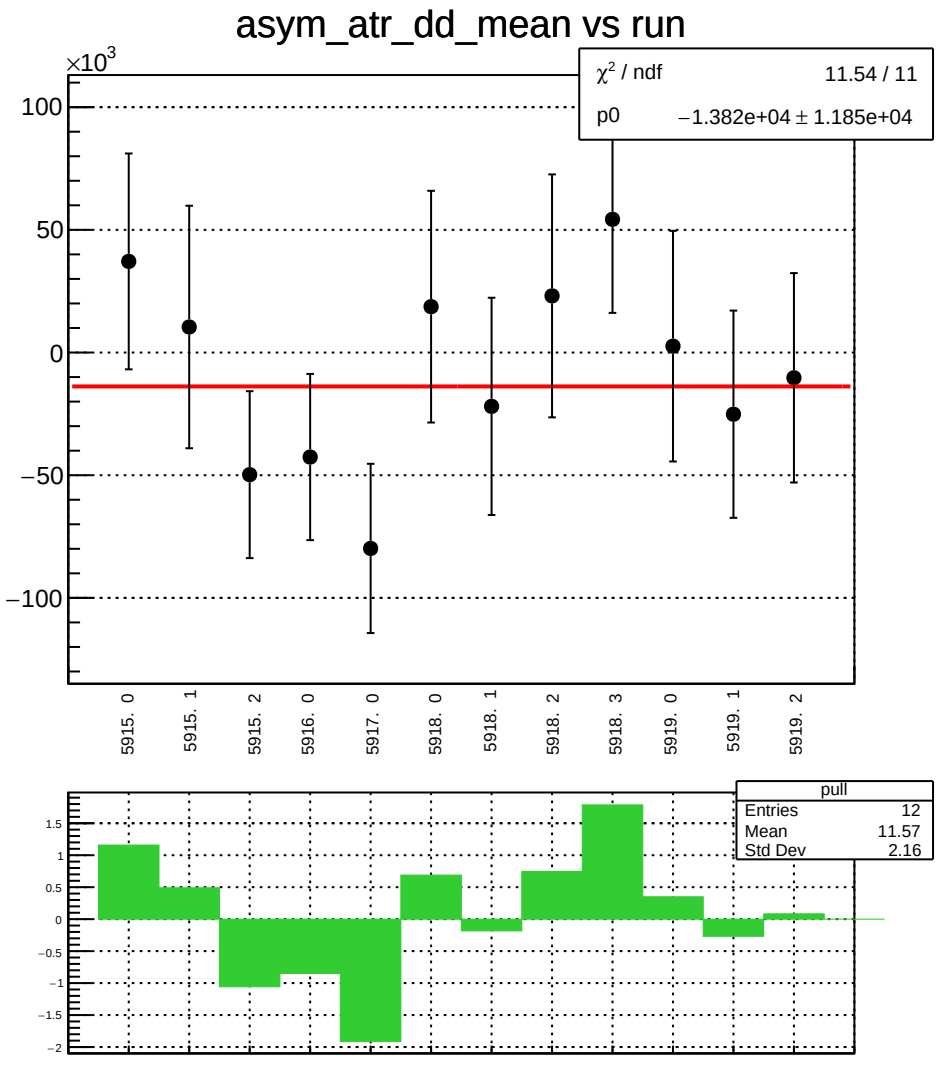

reg_asym_atr_dd_rms vs run
χ² / ndf 16.62 / 11
p0 1986 ± 3.794
2040
2020
2000
1980
1960
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

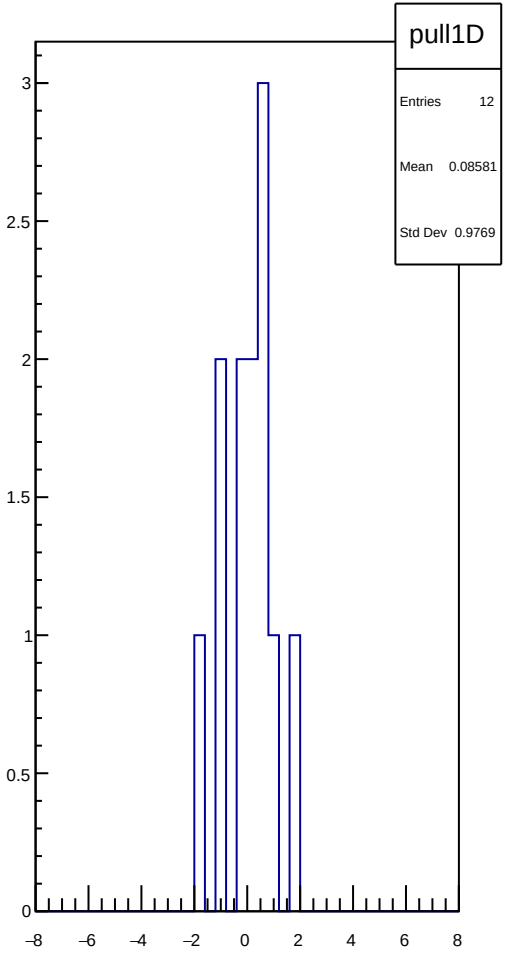

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 16.62 / 11
p0 1.065e+04 ± 1.055e+04
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

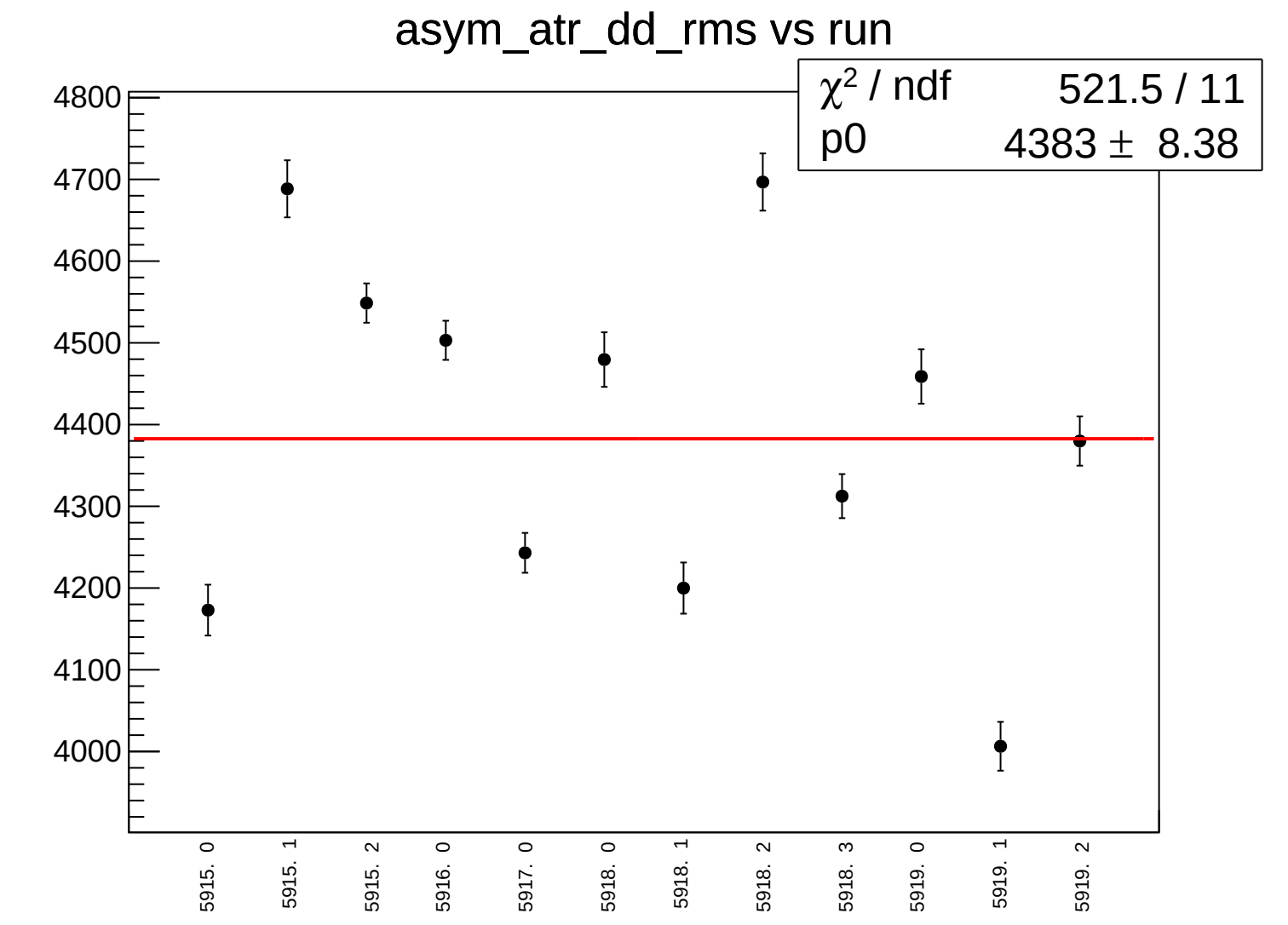

pull
Entries 12
Mean 16.61
Std Dev 9.067
2
1
0
−1
−2

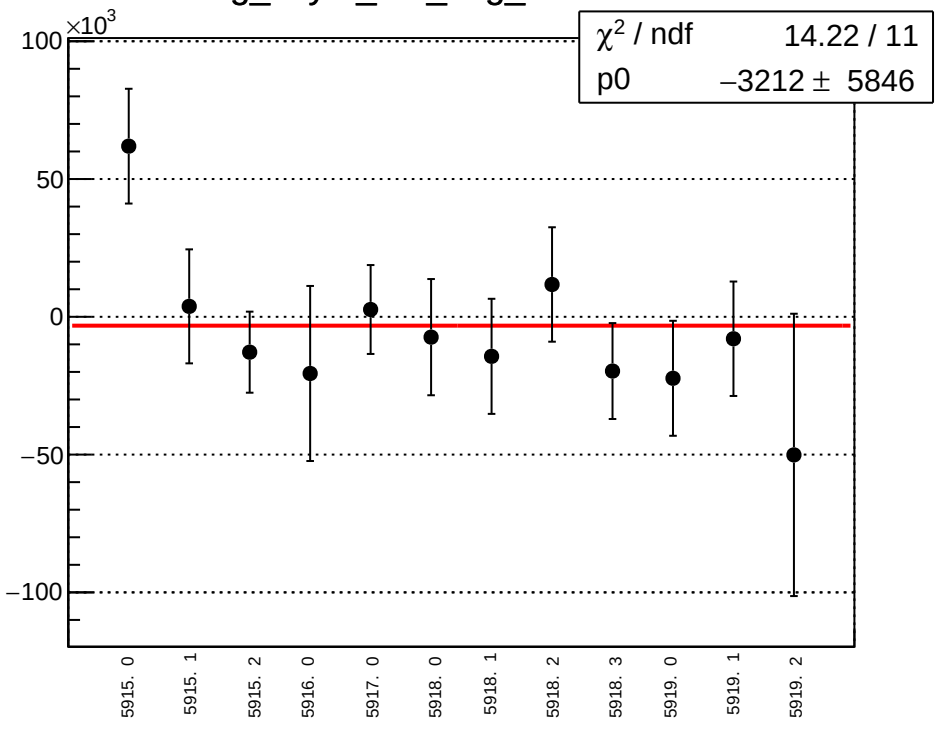

pull1D
Entries 12
Mean −0.09319
Std Dev 1.173
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

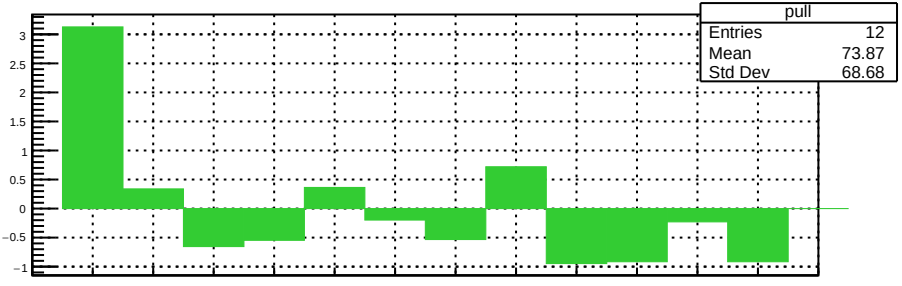

asym_atr_dd_correction_rms vs run
χ² / ndf 848.9 / 11
p0 3900 ± 7.462
4200
4000
3800
3600
3400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

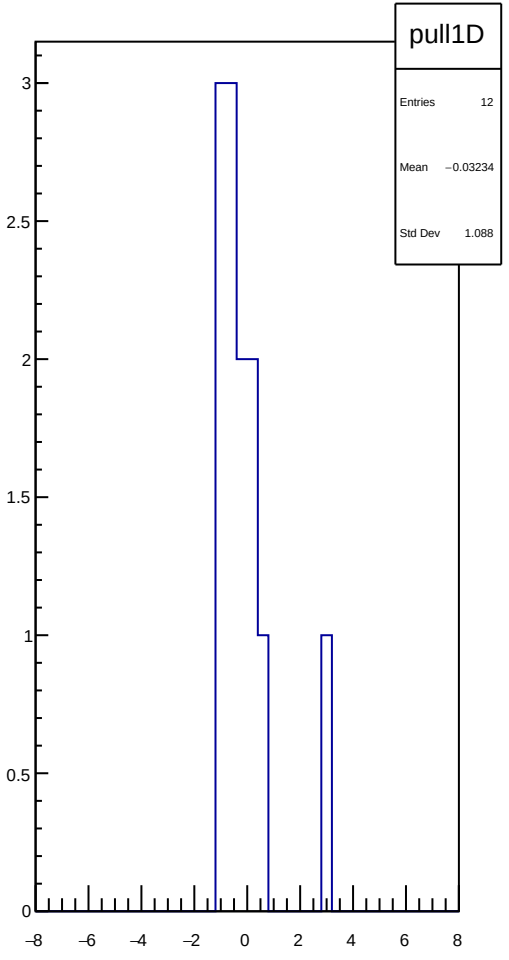

asym_atr_dd_mean vs run
×10^3
χ² / ndf 11.54 / 11
p0 −1.382e+04 ± 1.185e+04
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.57
Std Dev 2.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

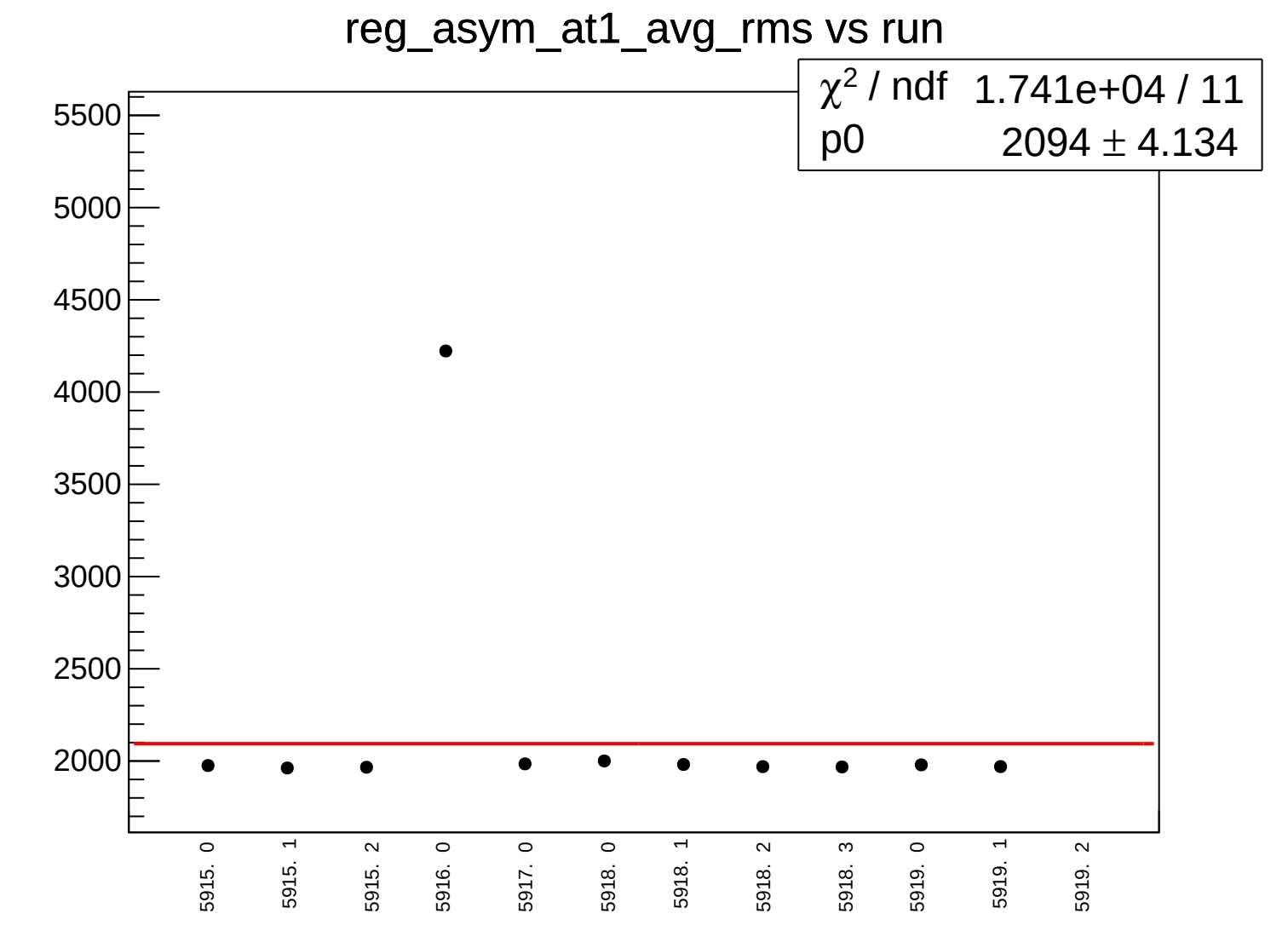

pull1D
Entries 12
Mean 0.08581
Std Dev 0.9769
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

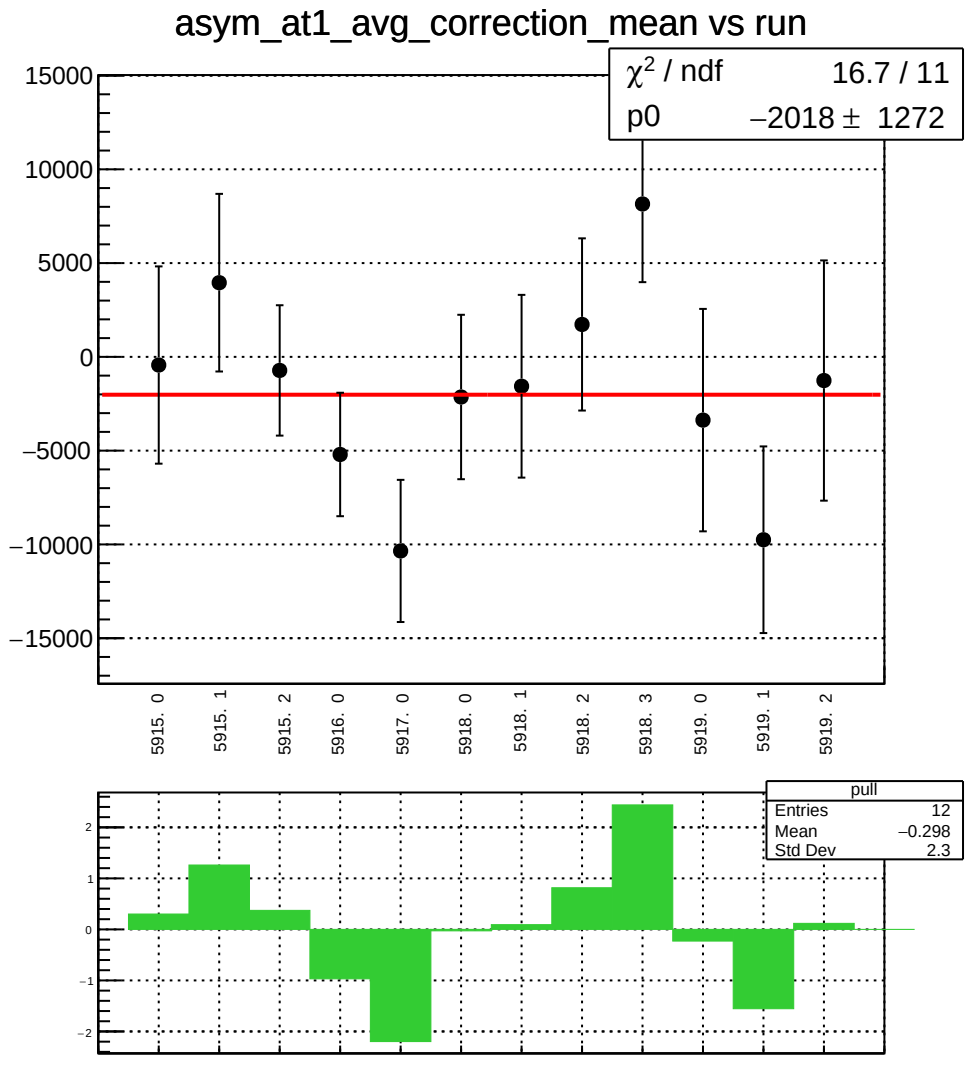

asym_atr_dd_rms vs run
χ² / ndf 521.5 / 11
p0 4383 ± 8.38
4800
4700
4600
4500
4400
4300
4200
4100
4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

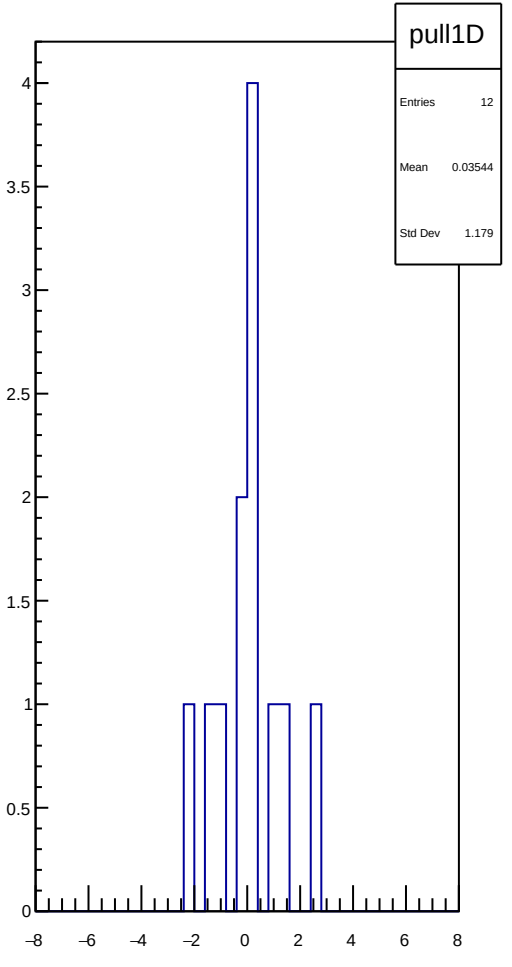

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 14.22 / 11
p0 −3212 ± 5846
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

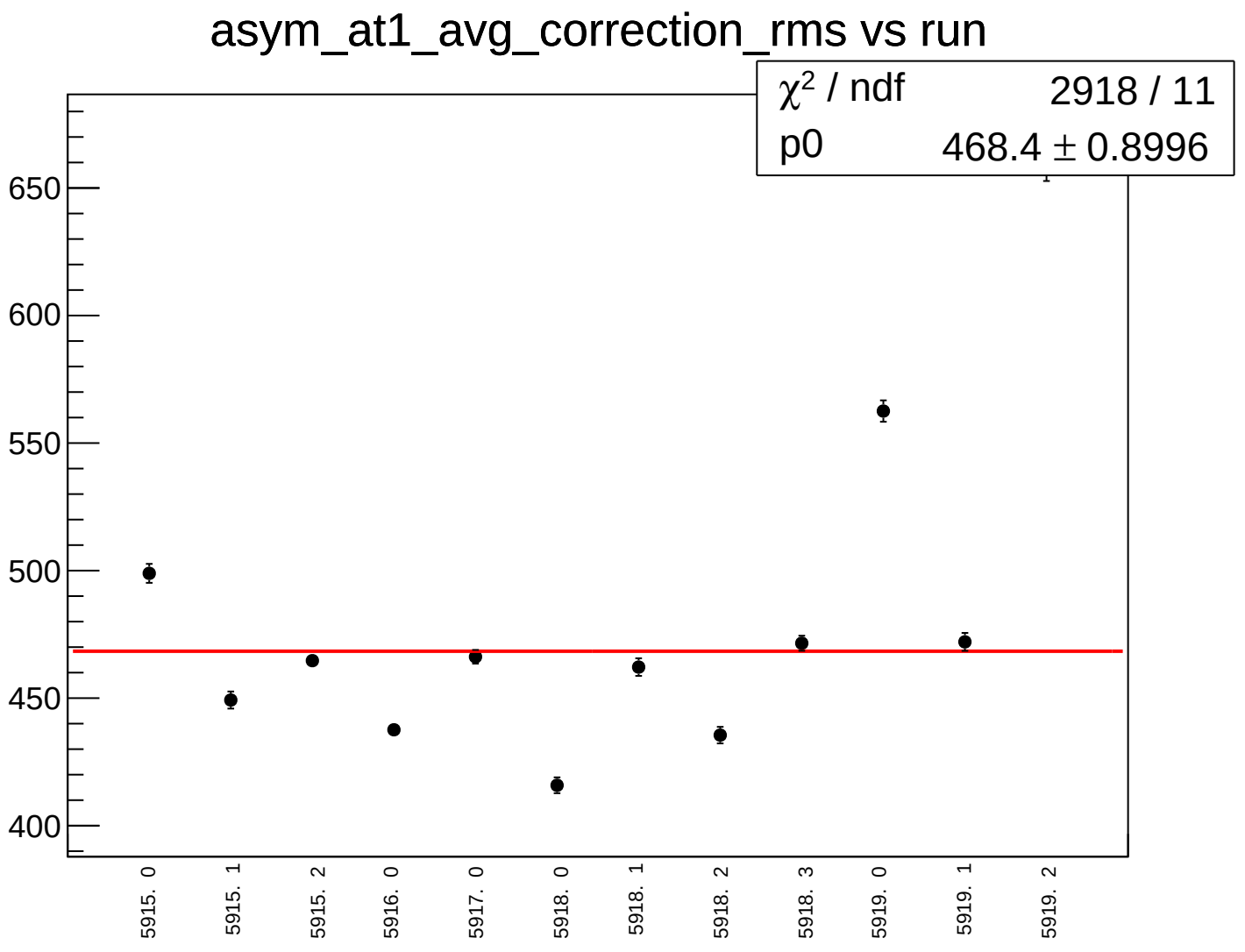

pull
Entries 12
Mean 73.87
Std Dev 68.68

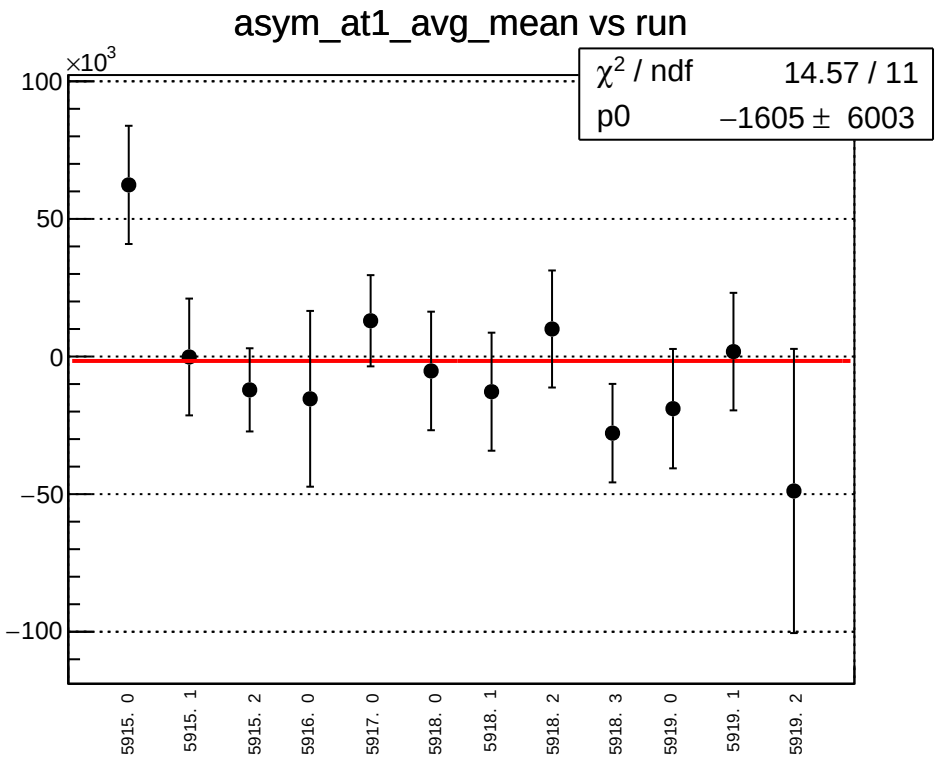

pull1D
Entries 12
Mean −0.03234
Std Dev 1.088
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

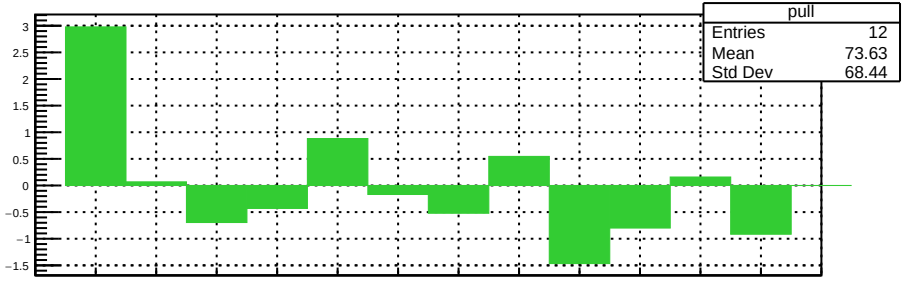

reg_asym_at1_avg_rms vs run
χ² / ndf 1.741e+04 / 11
p0 2094 ± 4.134
5500
5000
4500
4000
3500
3000
2500
2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

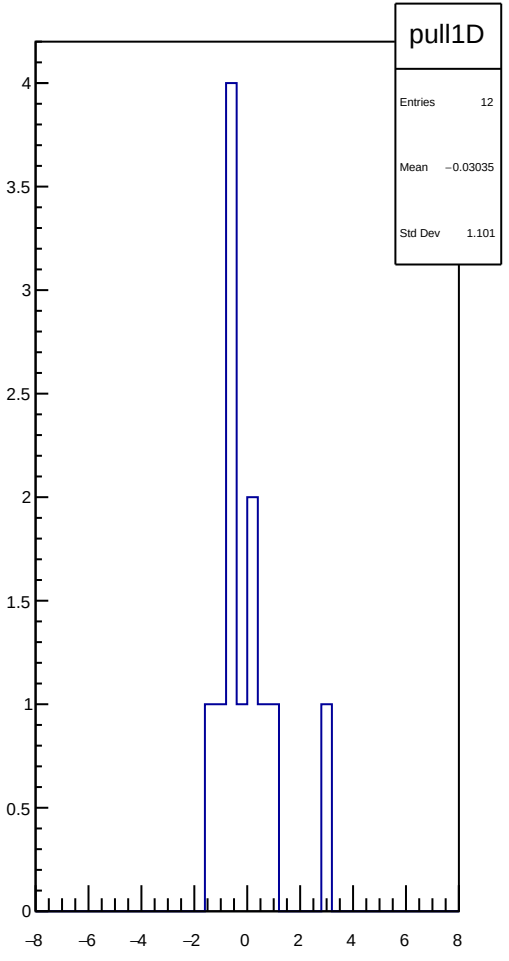

asym_at1_avg_correction_mean vs run
χ² / ndf 16.7 / 11
p0 −2018 ± 1272
15000
10000
5000
0
−5000
−10000
−15000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −0.298
Std Dev 2.3
2
1
0
−1
−2

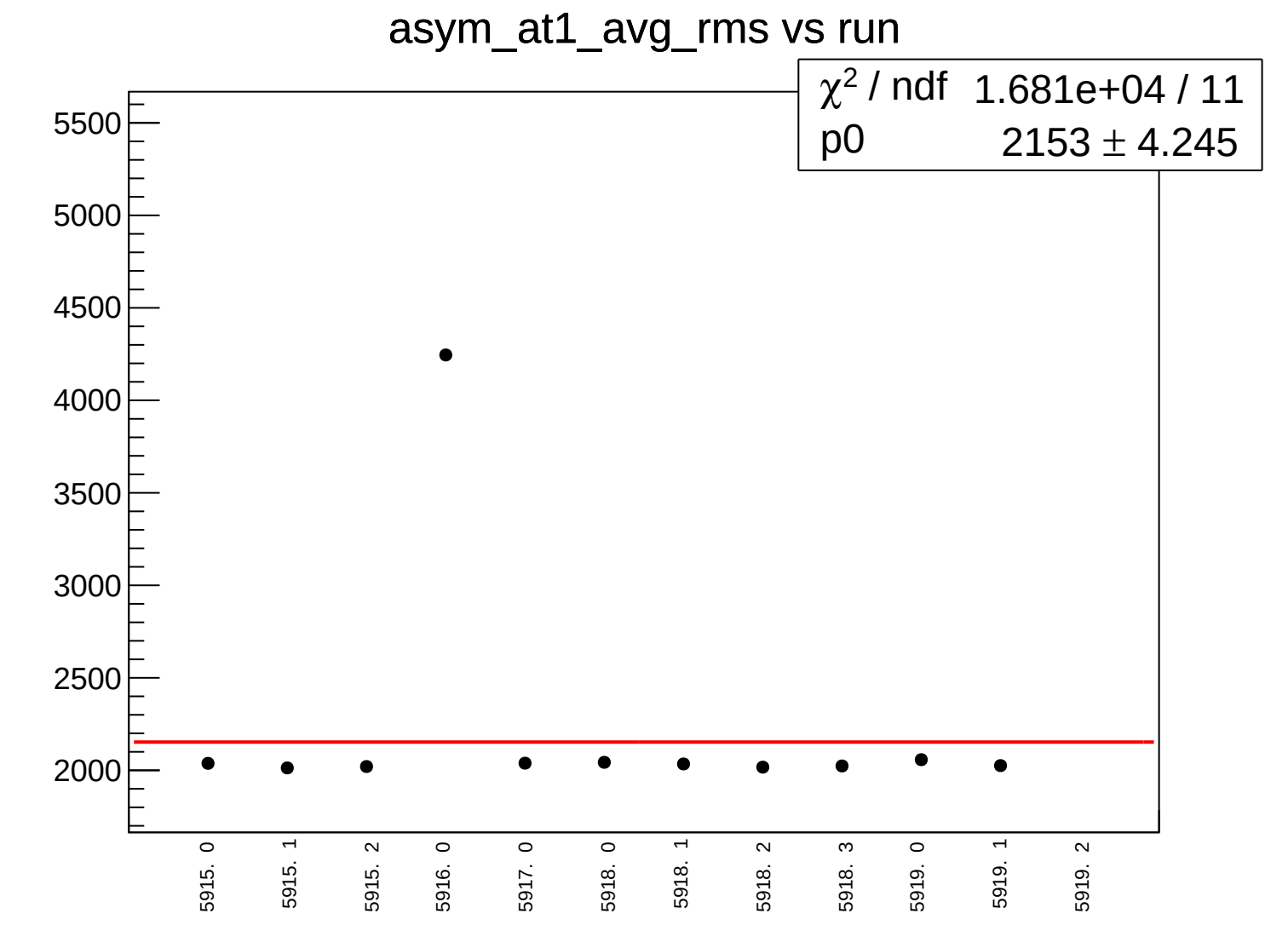

pull1D
Entries 12
Mean 0.03544
Std Dev 1.179
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

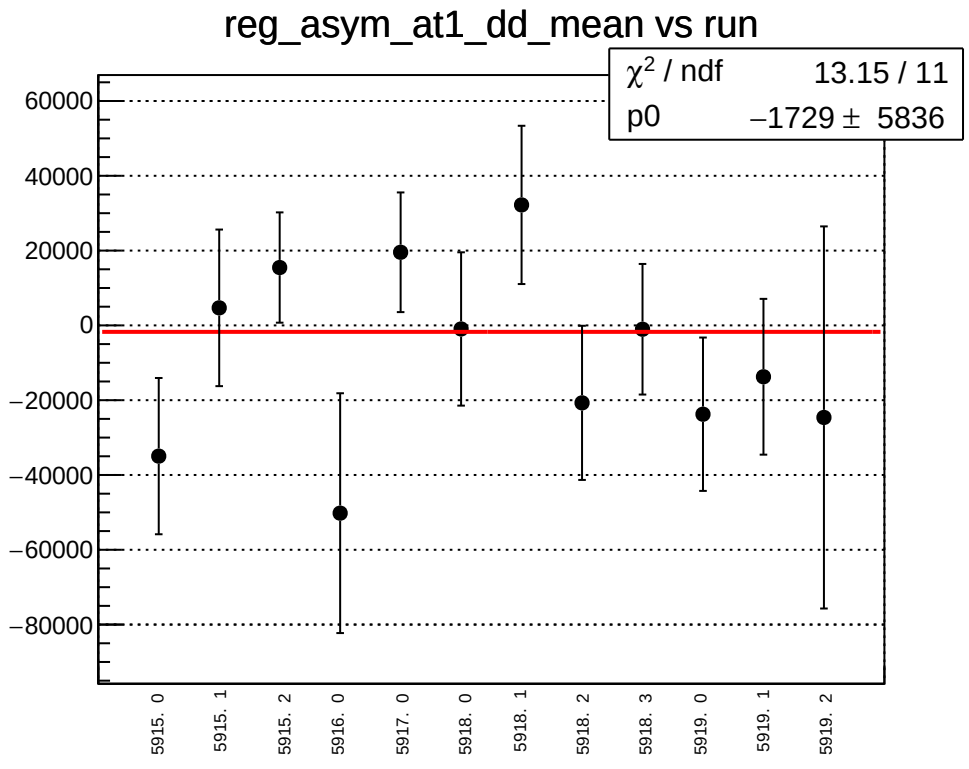

asym_at1_avg_correction_rms vs run
χ² / ndf 2918 / 11
p0 468.4 ± 0.8996
650
600
550
500
450
400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

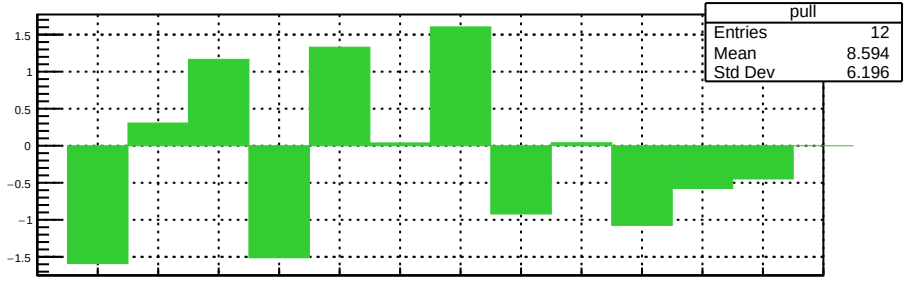

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 14.57 / 11
p0 −1605 ± 6003
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

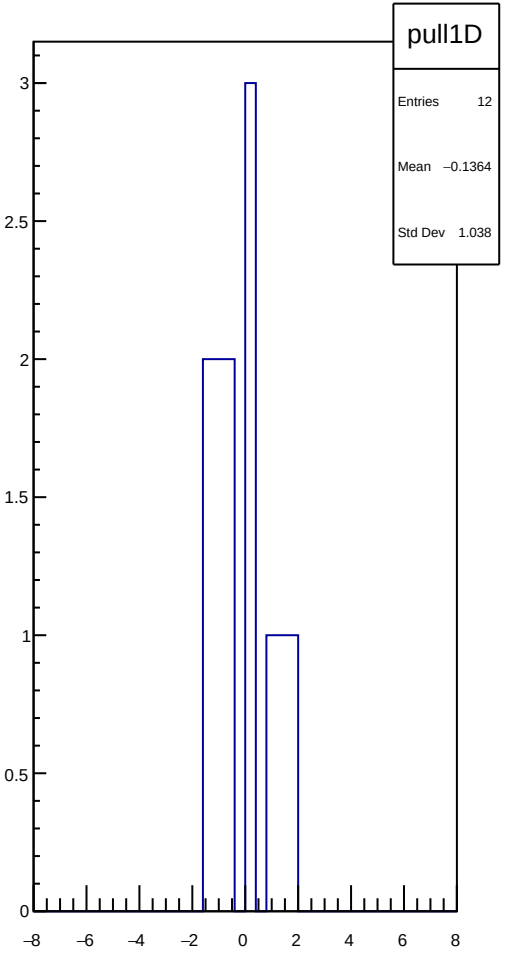

pull
Entries 12
Mean 73.63
Std Dev 68.44
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

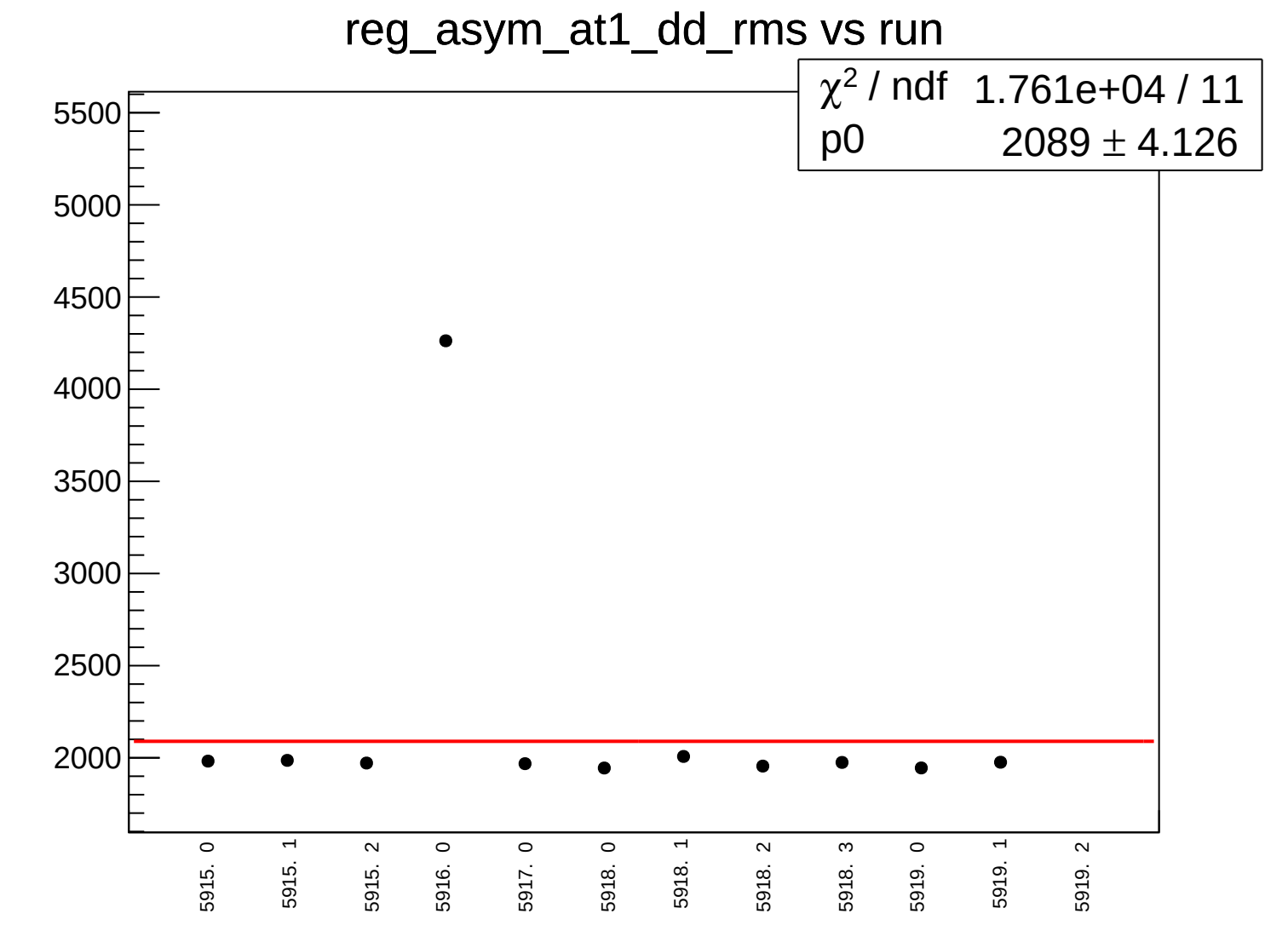

pull1D
Entries 12
Mean −0.03035
Std Dev 1.101
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

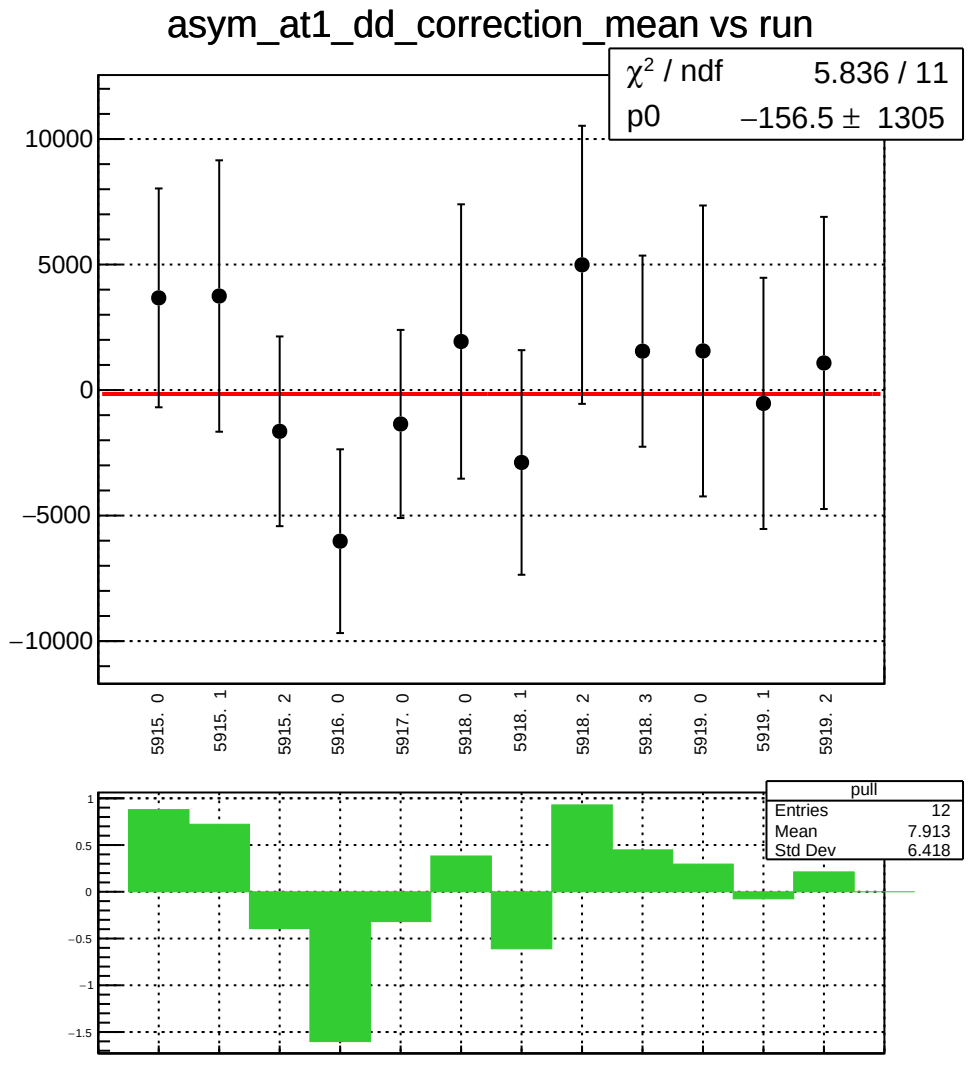

asym_at1_avg_rms vs run
χ² / ndf 1.681e+04 / 11
p0 2153 ± 4.245
5500
5000
4500
4000
3500
3000
2500
2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

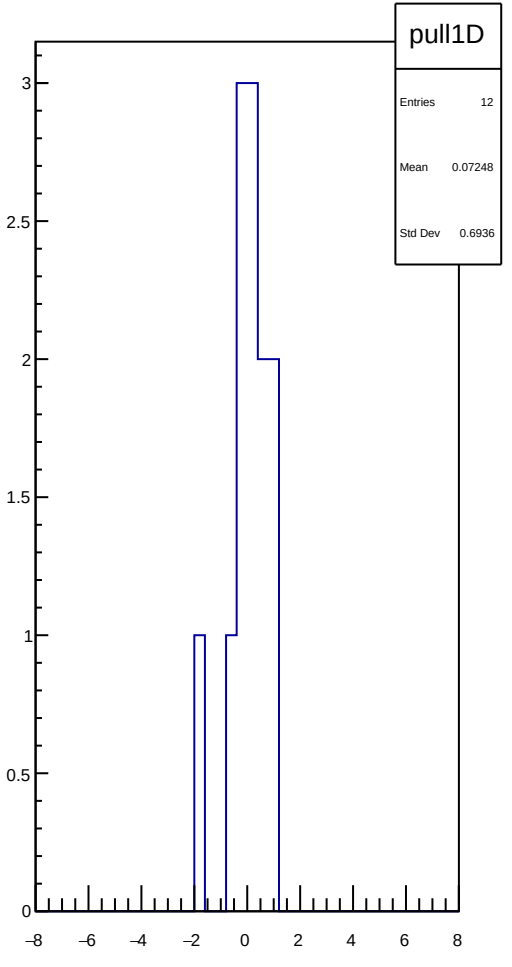

reg_asym_at1_dd_mean vs run
χ² / ndf 13.15 / 11
p0 −1729 ± 5836
60000
40000
20000
0
−20000
−40000
−60000
−80000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

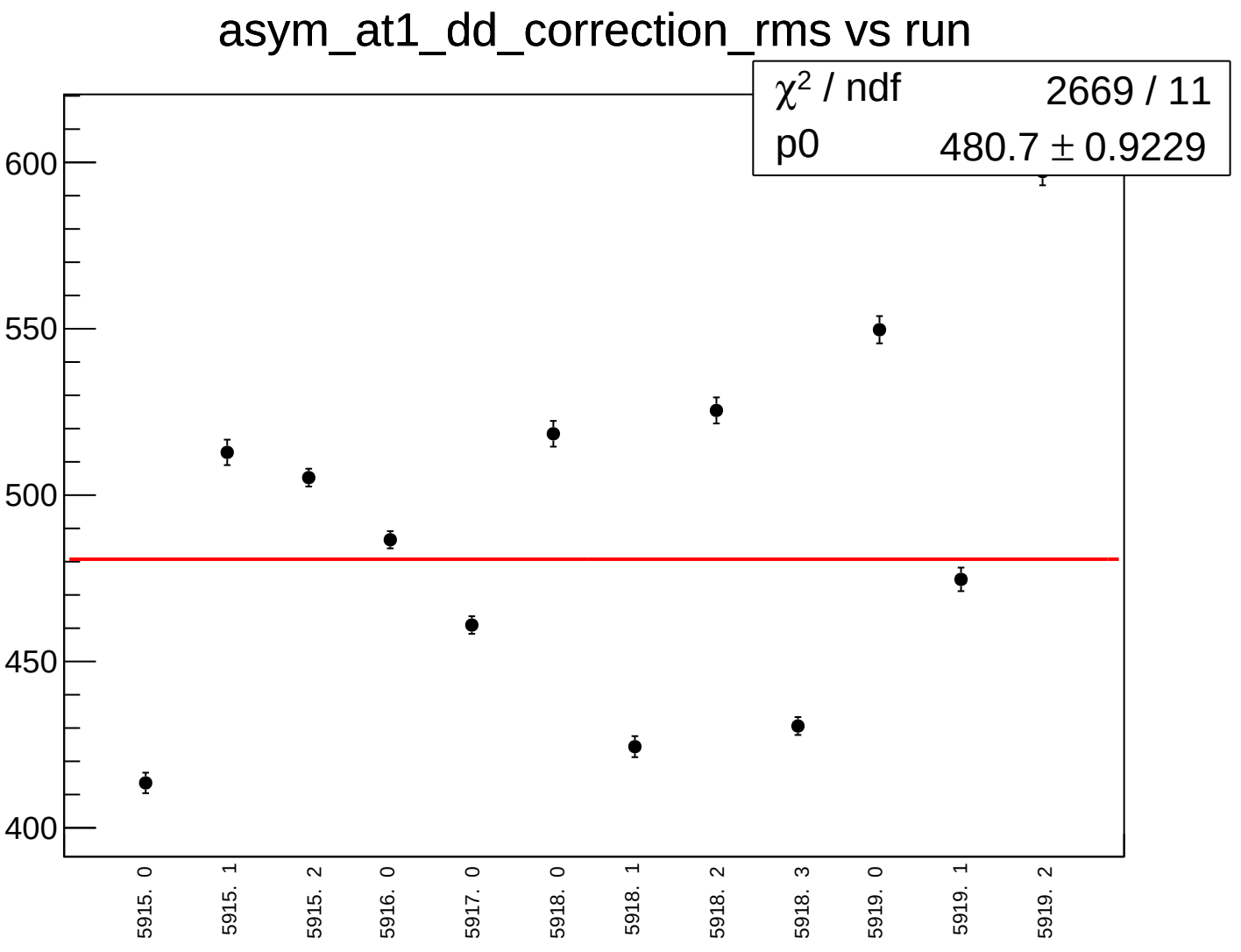

pull
Entries 12
Mean 8.594
Std Dev 6.196
1.5
1
0.5
0
−0.5
−1
−1.5

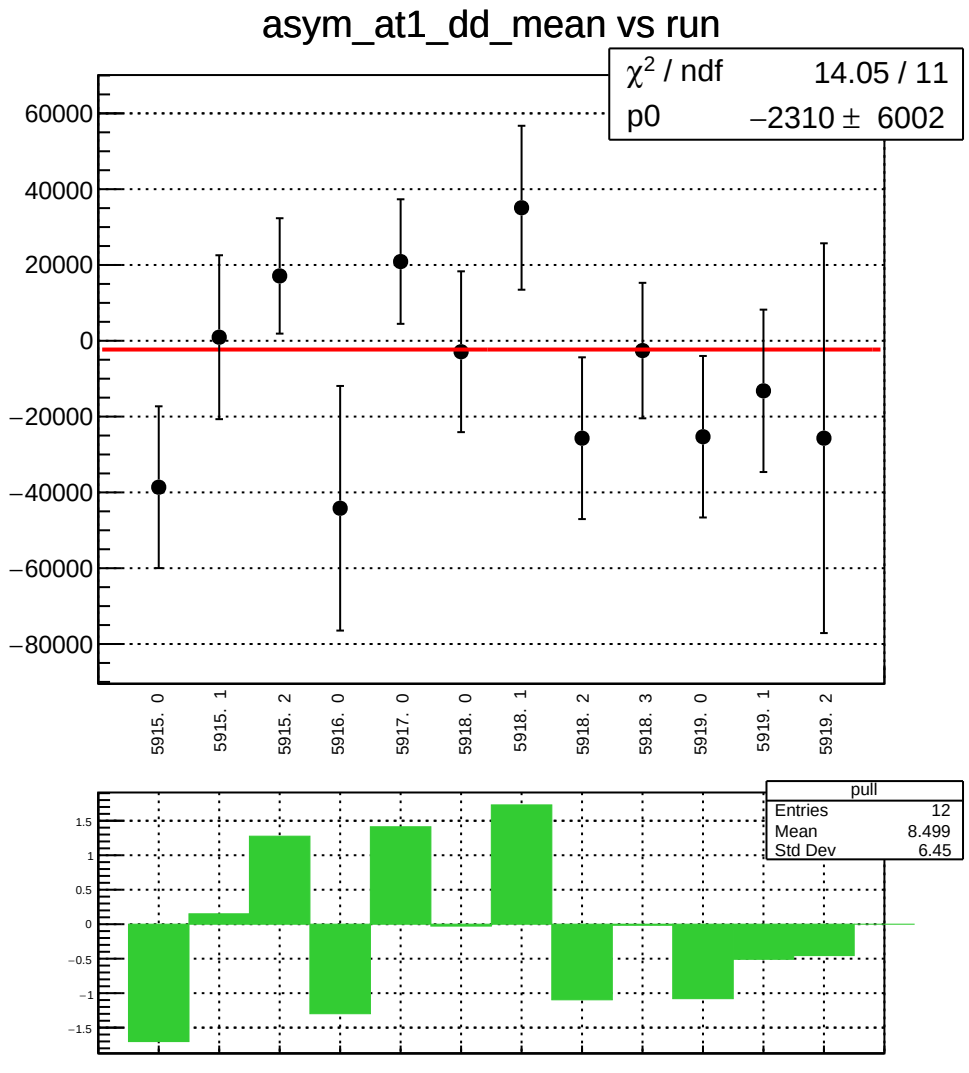

pull1D
Entries 12
Mean −0.1364
Std Dev 1.038
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

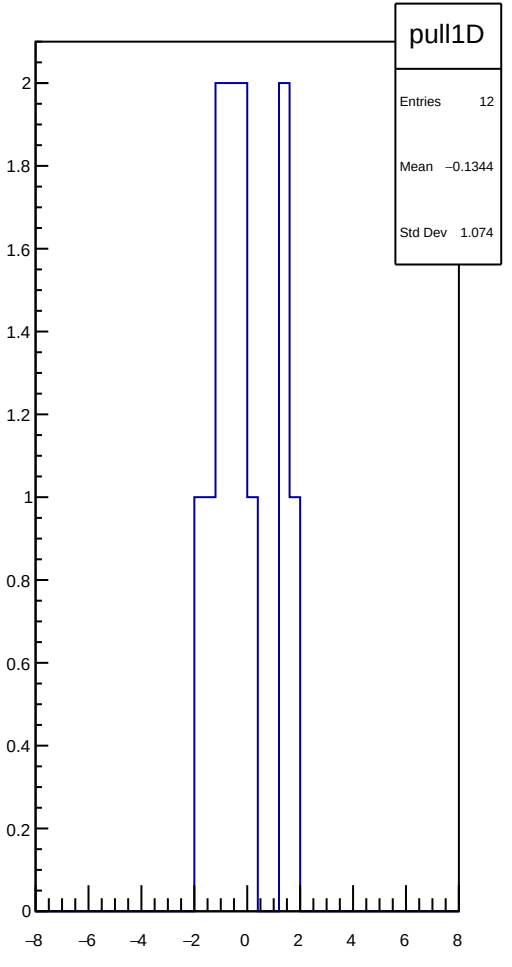

reg_asym_at1_dd_rms vs run
χ² / ndf 1.761e+04 / 11
p0 2089 ± 4.126
5500
5000
4500
4000
3500
3000
2500
2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

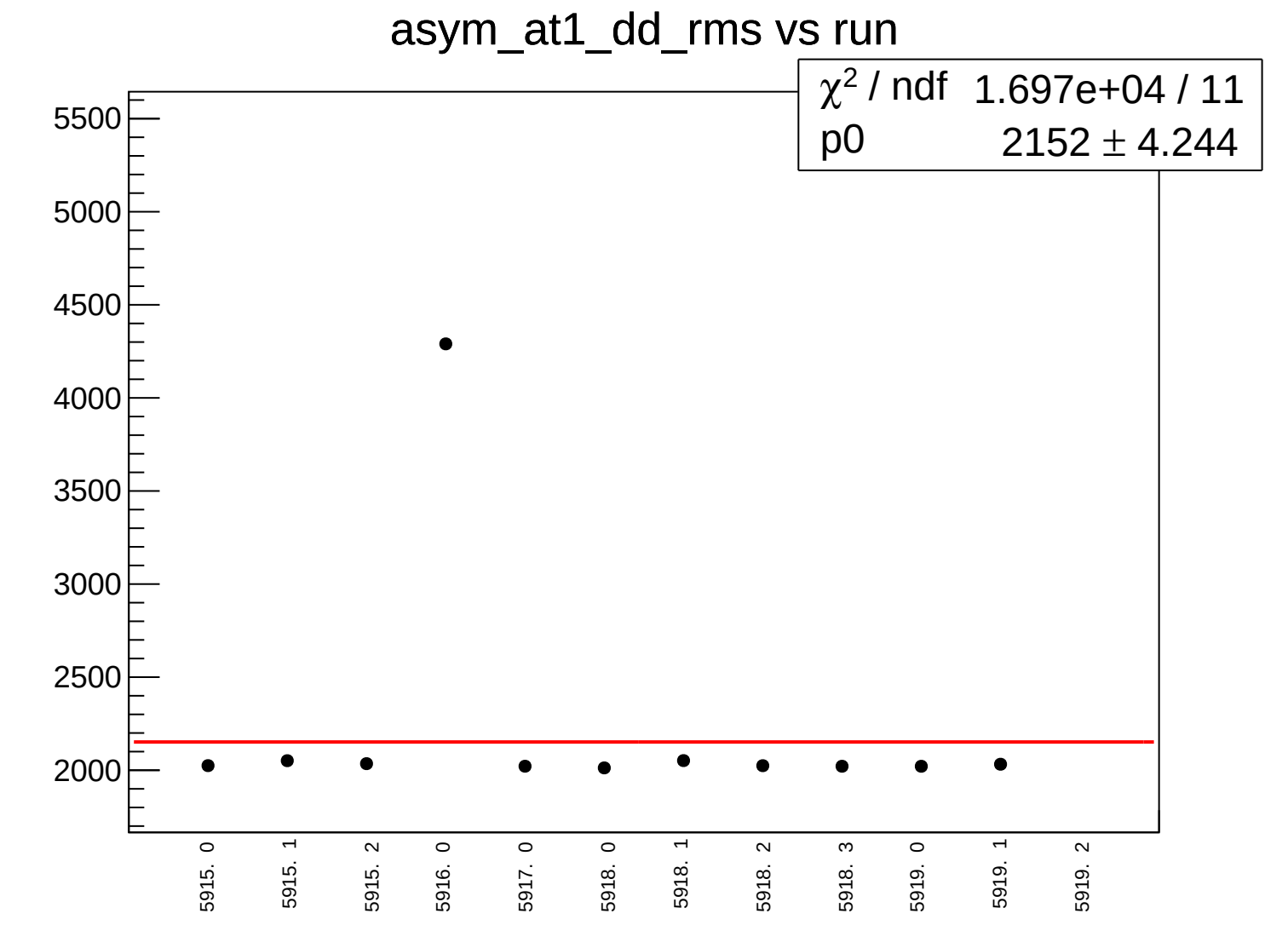

asym_at1_dd_correction_mean vs run
χ² / ndf 5.836 / 11
p0 −156.5 ± 1305
10000
5000
0
−5000
−10000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.913
Std Dev 6.418
1
0.5
0
−0.5
−1
−1.5

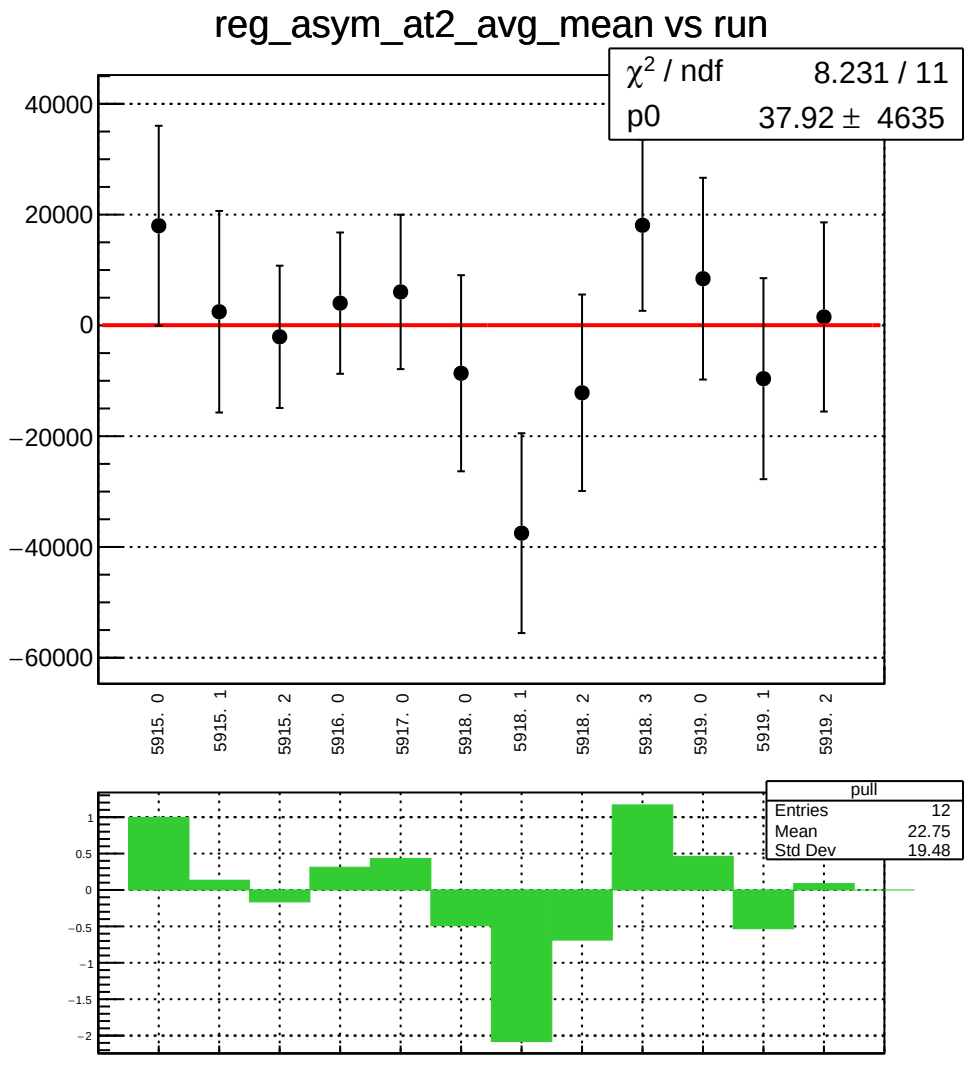

pull1D
Entries 12
Mean 0.07248
Std Dev 0.6936
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

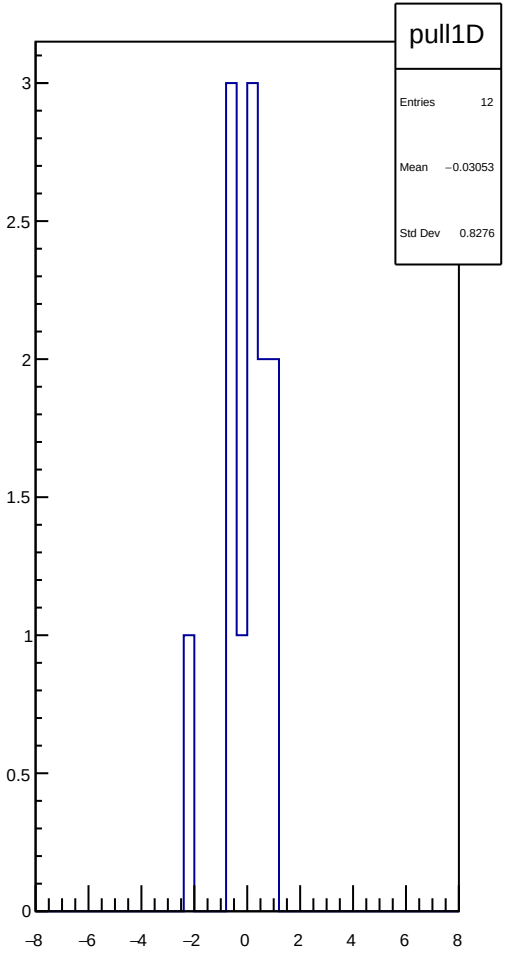

asym_at1_dd_correction_rms vs run
χ² / ndf 2669 / 11
p0 480.7 ± 0.9229
600
550
500
450
400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

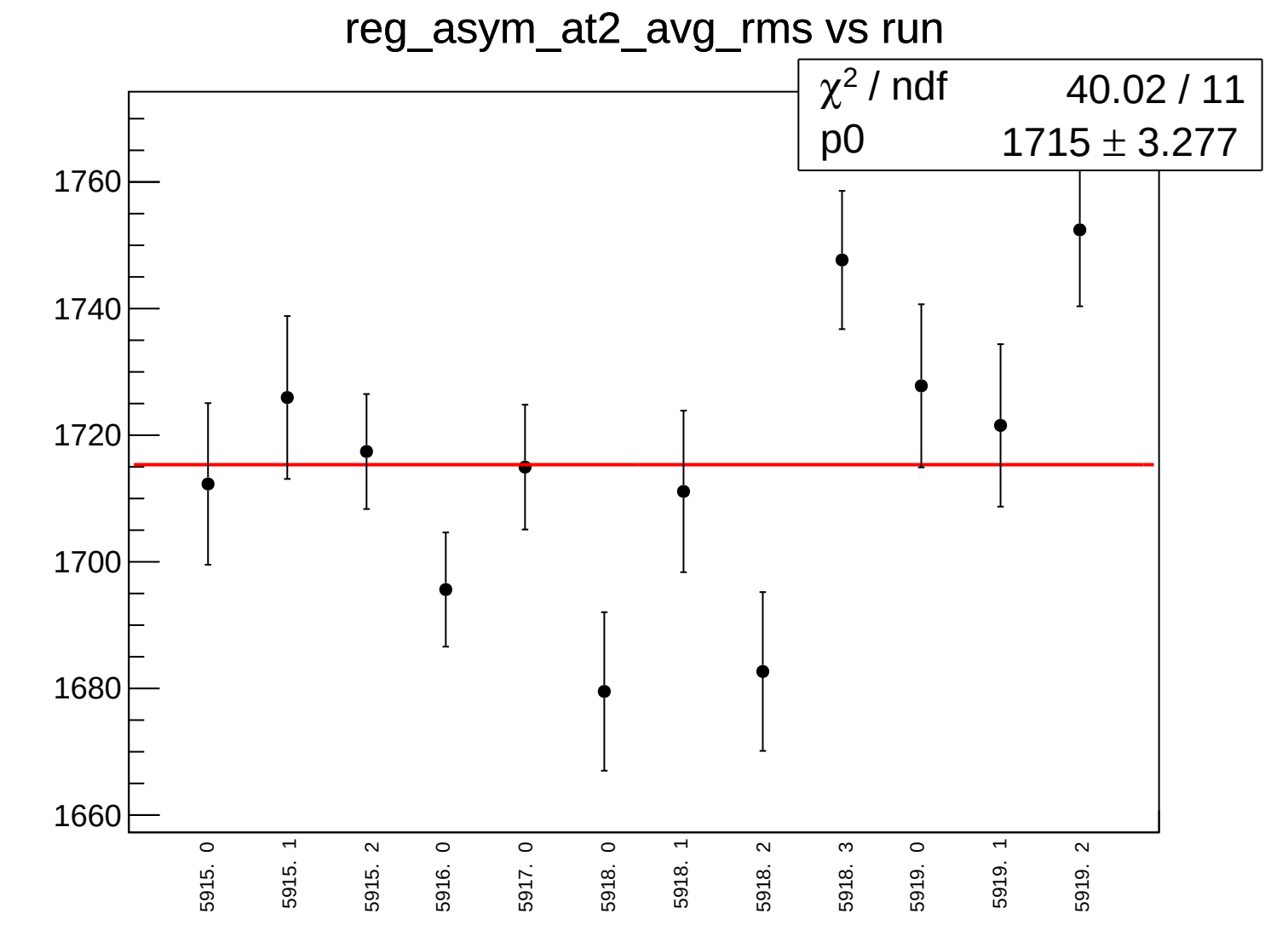

asym_at1_dd_mean vs run
χ² / ndf 14.05 / 11
p0 −2310 ± 6002
60000
40000
20000
0
−20000
−40000
−60000
−80000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.499
Std Dev 6.45
1.5
1
0.5
0
−0.5
−1
−1.5

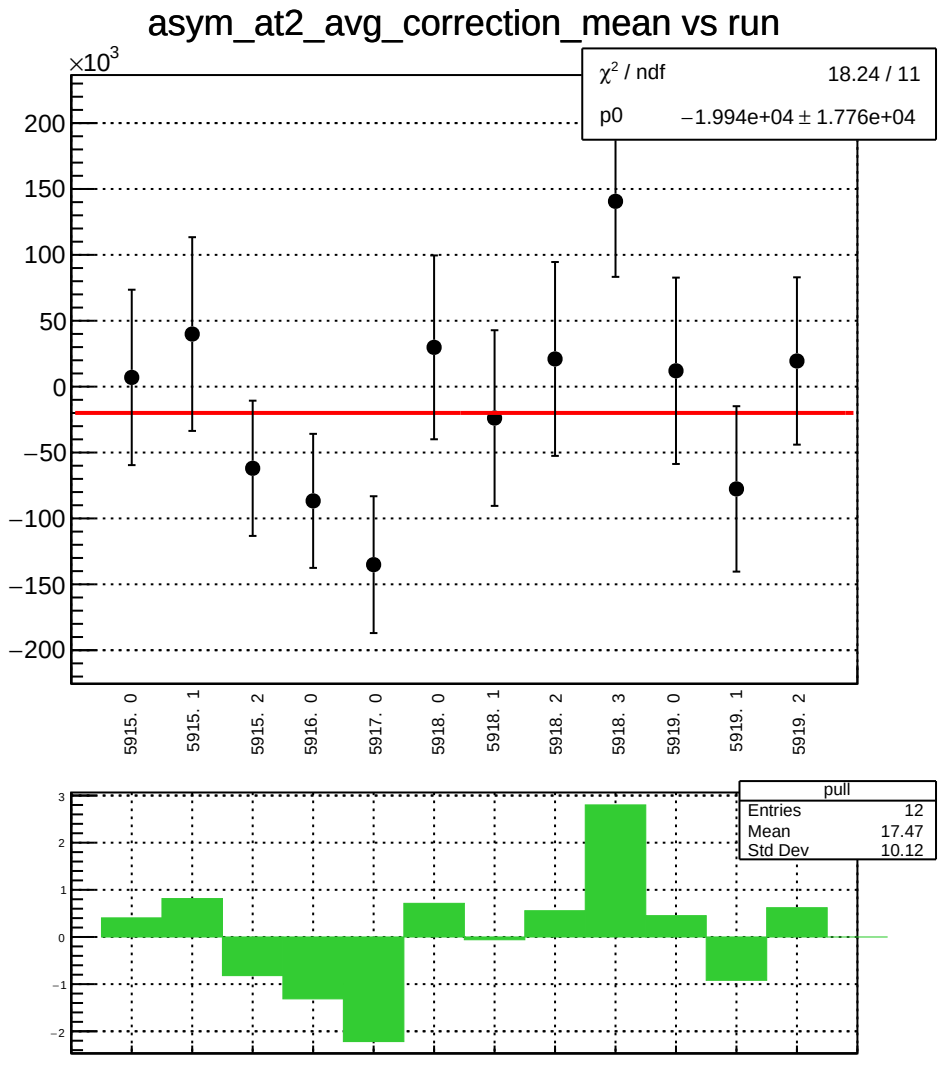

pull1D
Entries 12
Mean −0.1344
Std Dev 1.074
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

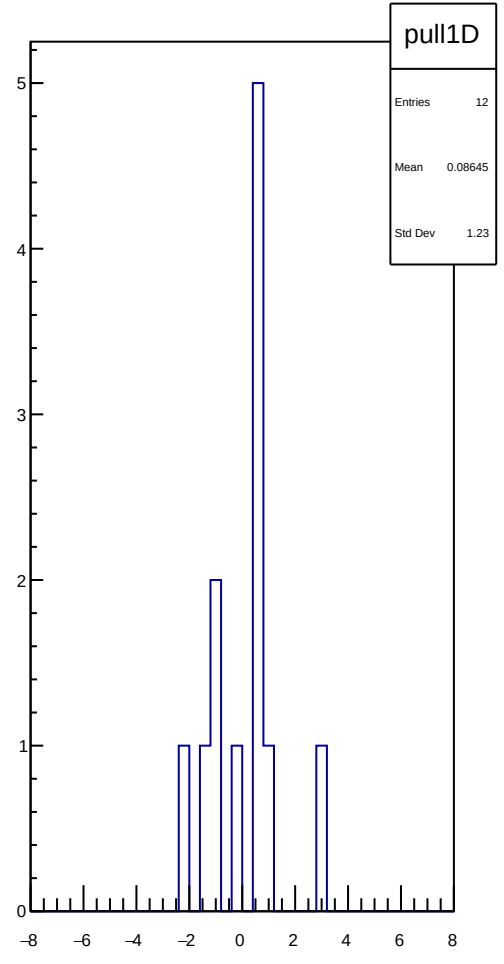

asym_at1_dd_rms vs run
χ² / ndf 1.697e+04 / 11
p0 2152 ± 4.244
5500
5000
4500
4000
3500
3000
2500
2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

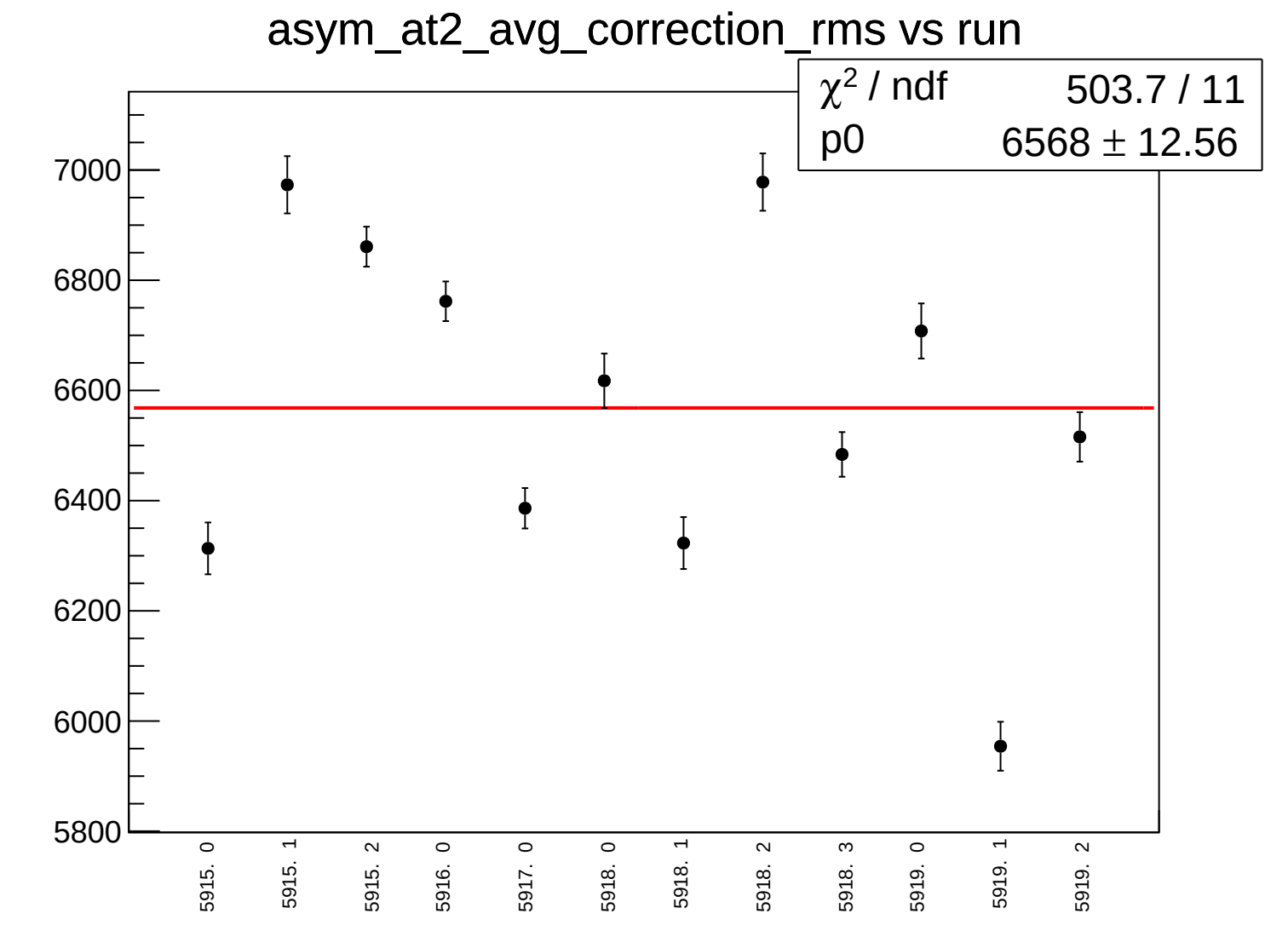

reg_asym_at2_avg_mean vs run
χ² / ndf 8.231 / 11
p0 37.92 ± 4635
40000
20000
0
−20000
−40000
−60000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.75
Std Dev 19.48
1
0.5
0
−0.5
−1
−1.5
−2

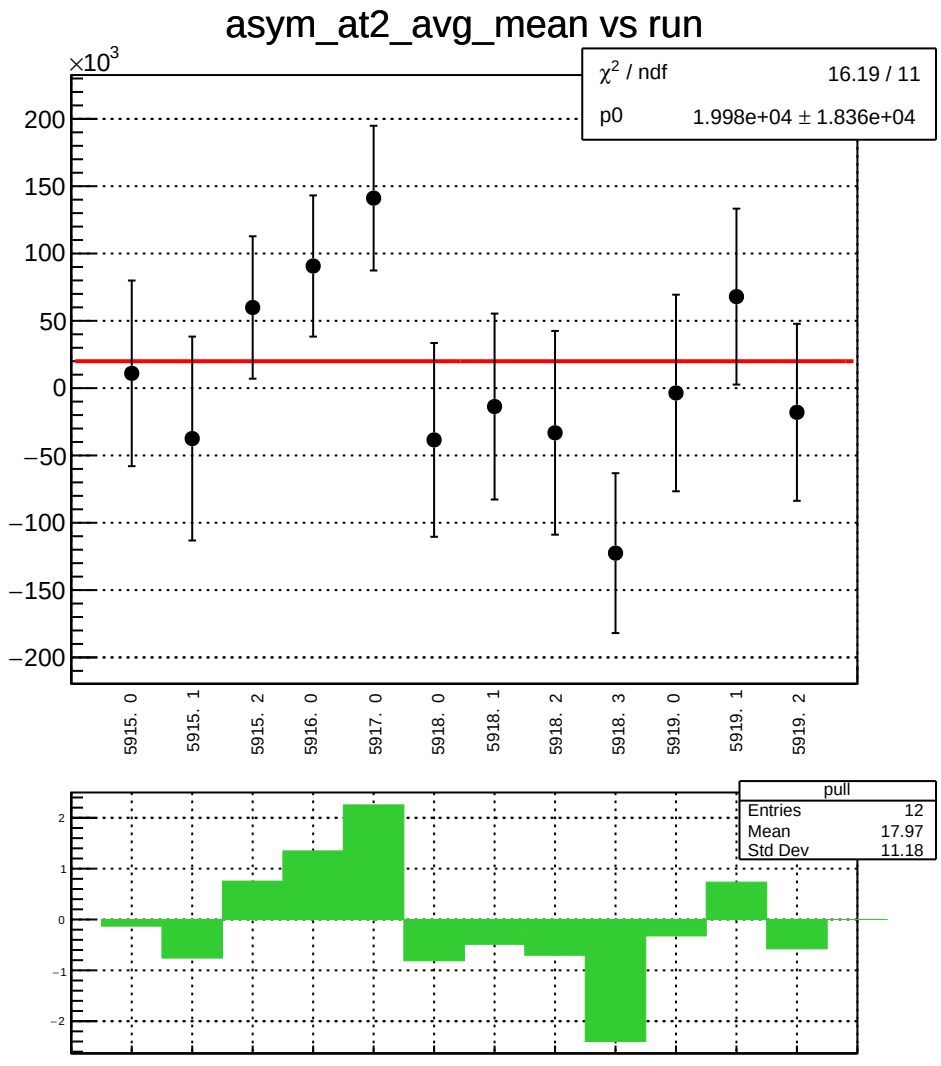

pull1D
Entries 12
Mean −0.03053
Std Dev 0.8276
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

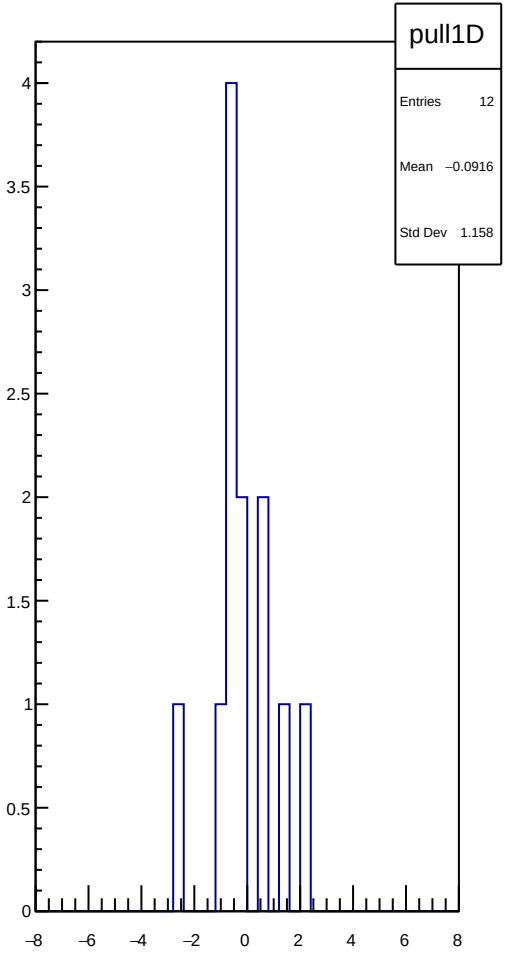

reg_asym_at2_avg_rms vs run
χ² / ndf 40.02 / 11
p0 1715 ± 3.277
1760
1740
1720
1700
1680
1660
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

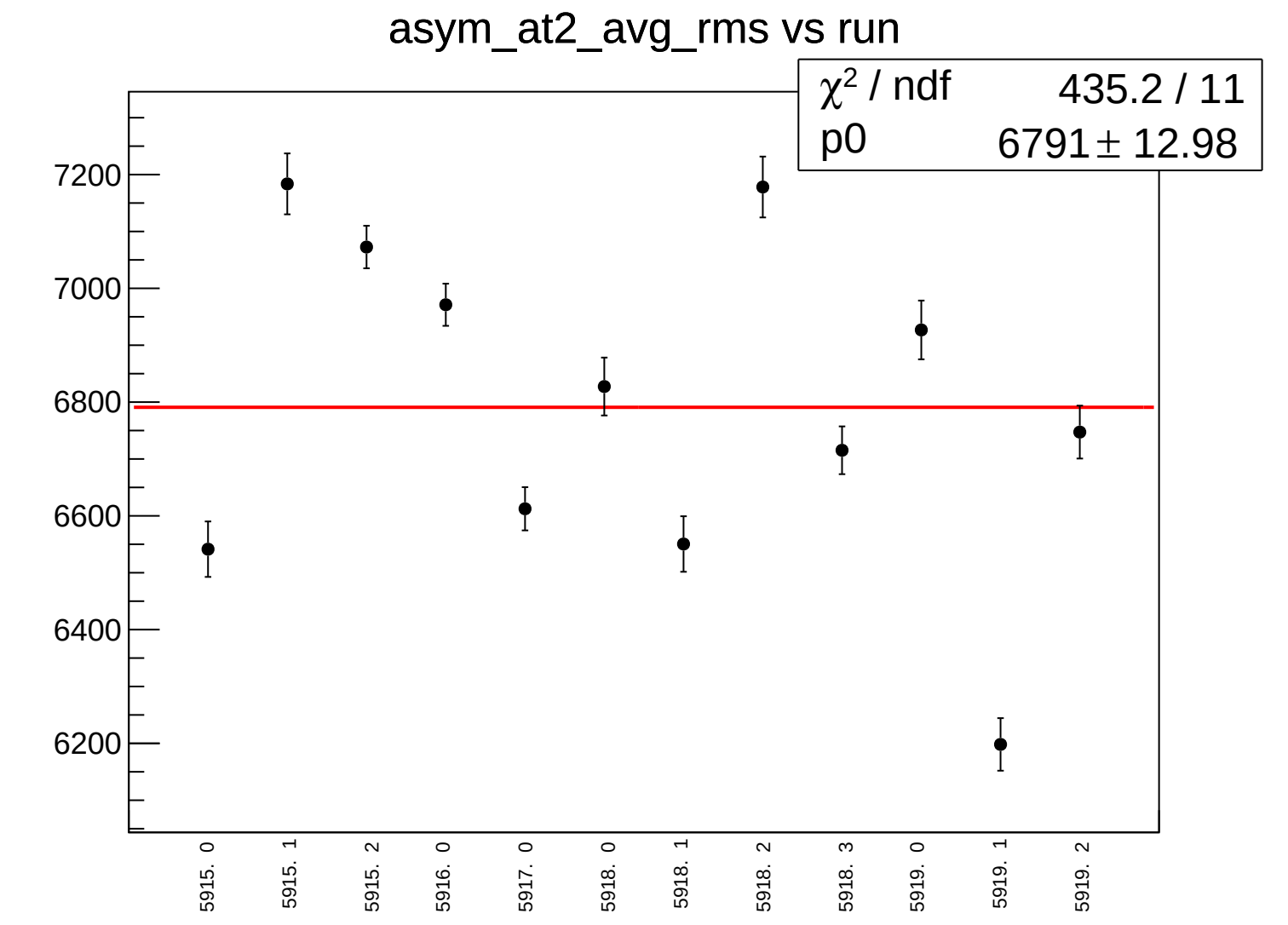

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 18.24 / 11
p0 −1.994e+04 ± 1.776e+04
200
150
100
50
0
−50
−100
−150
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 17.47
Std Dev 10.12
3
2
1
0
−1
−2

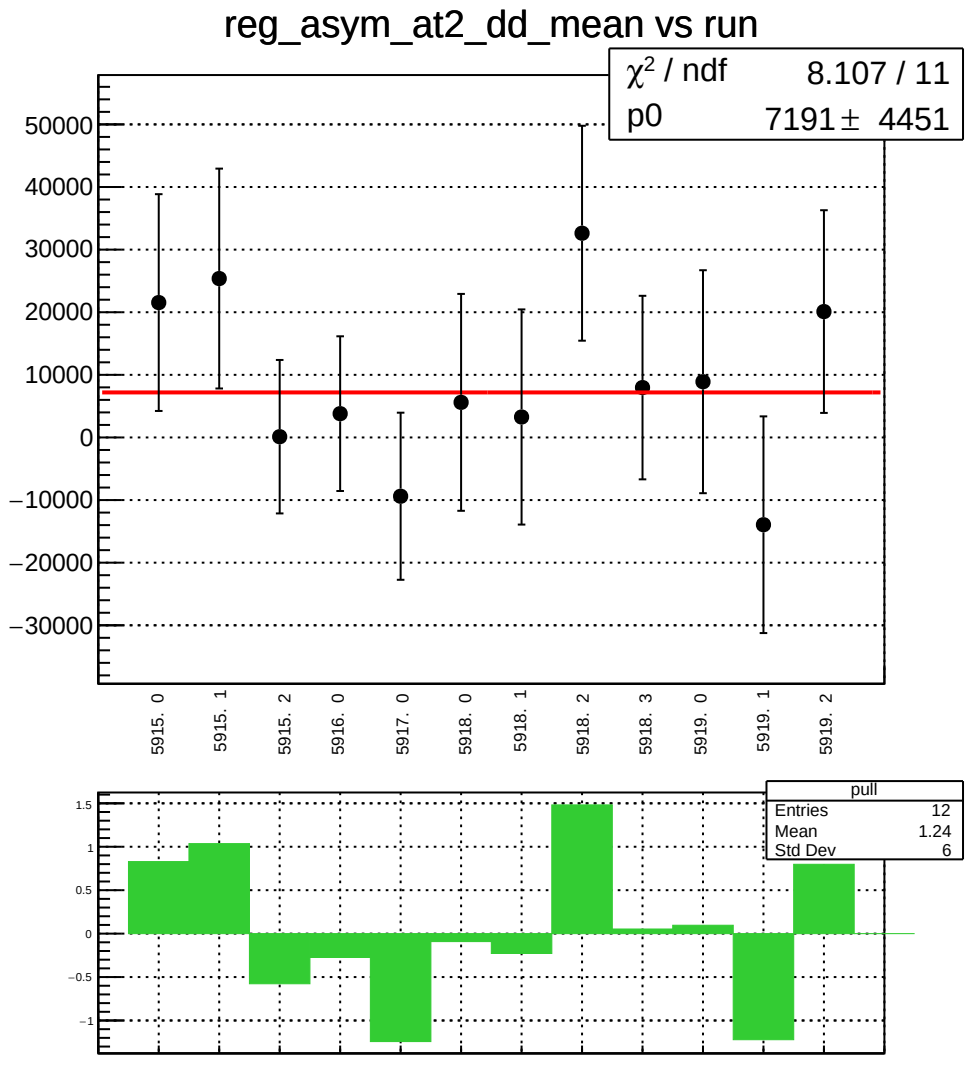

pull1D
Entries 12
Mean 0.08645
Std Dev 1.23
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

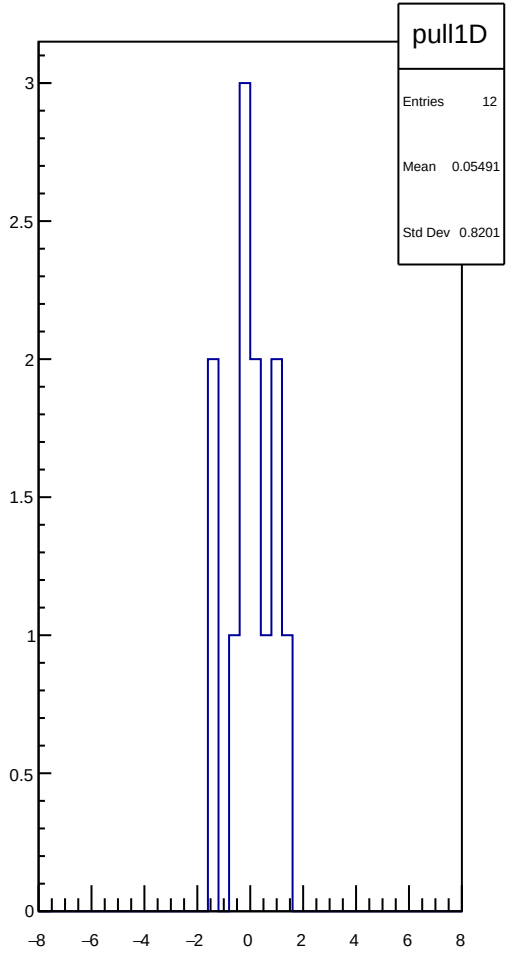

asym_at2_avg_correction_rms vs run
χ² / ndf 503.7 / 11
p0 6568 ± 12.56
7000
6800
6600
6400
6200
6000
5800
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

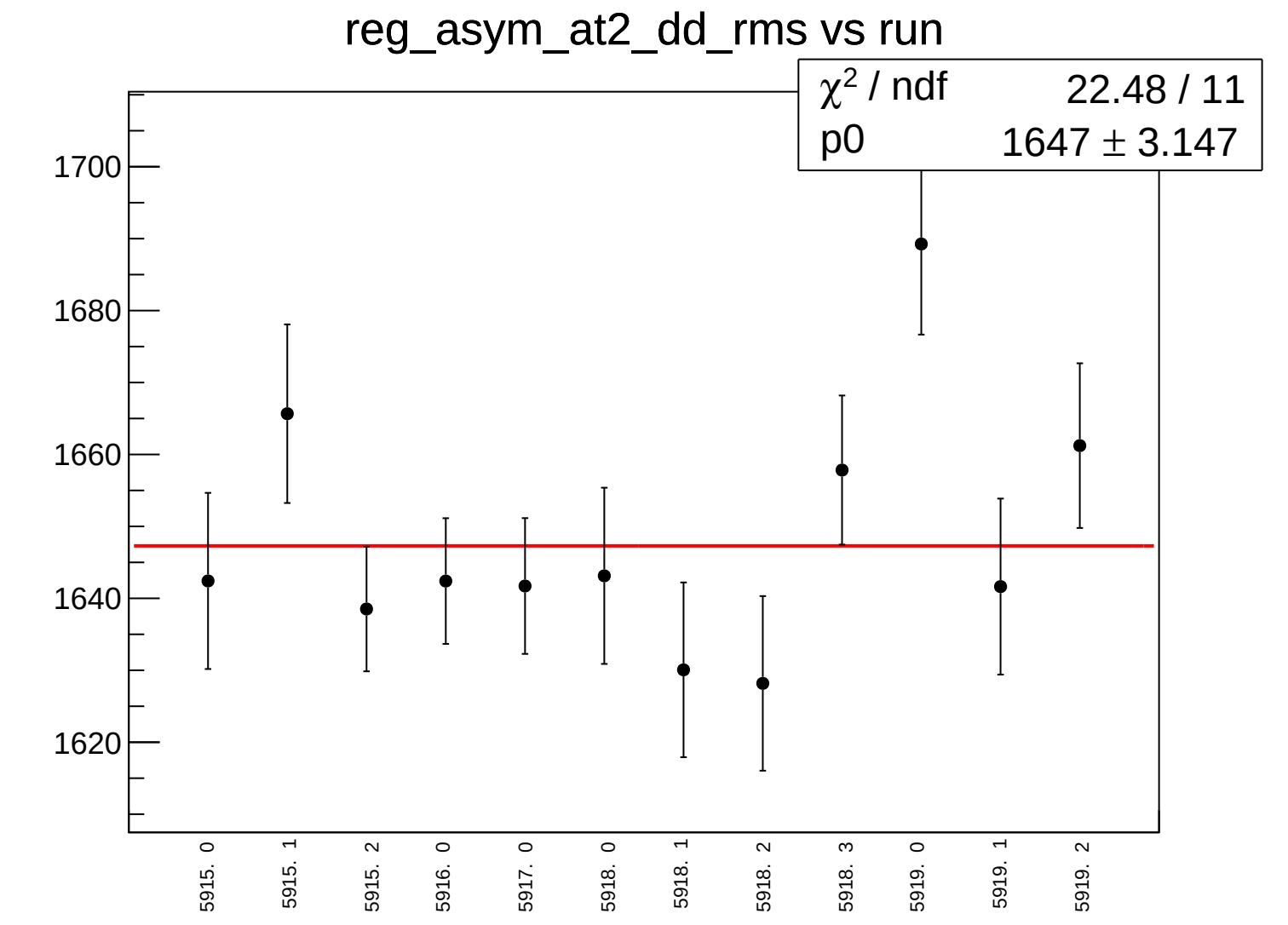

asym_at2_avg_mean vs run
×10^3
χ² / ndf 16.19 / 11
p0 1.998e+04 ± 1.836e+04
200
150
100
50
0
−50
−100
−150
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 17.97
Std Dev 11.18
2
1
0
−1
−2

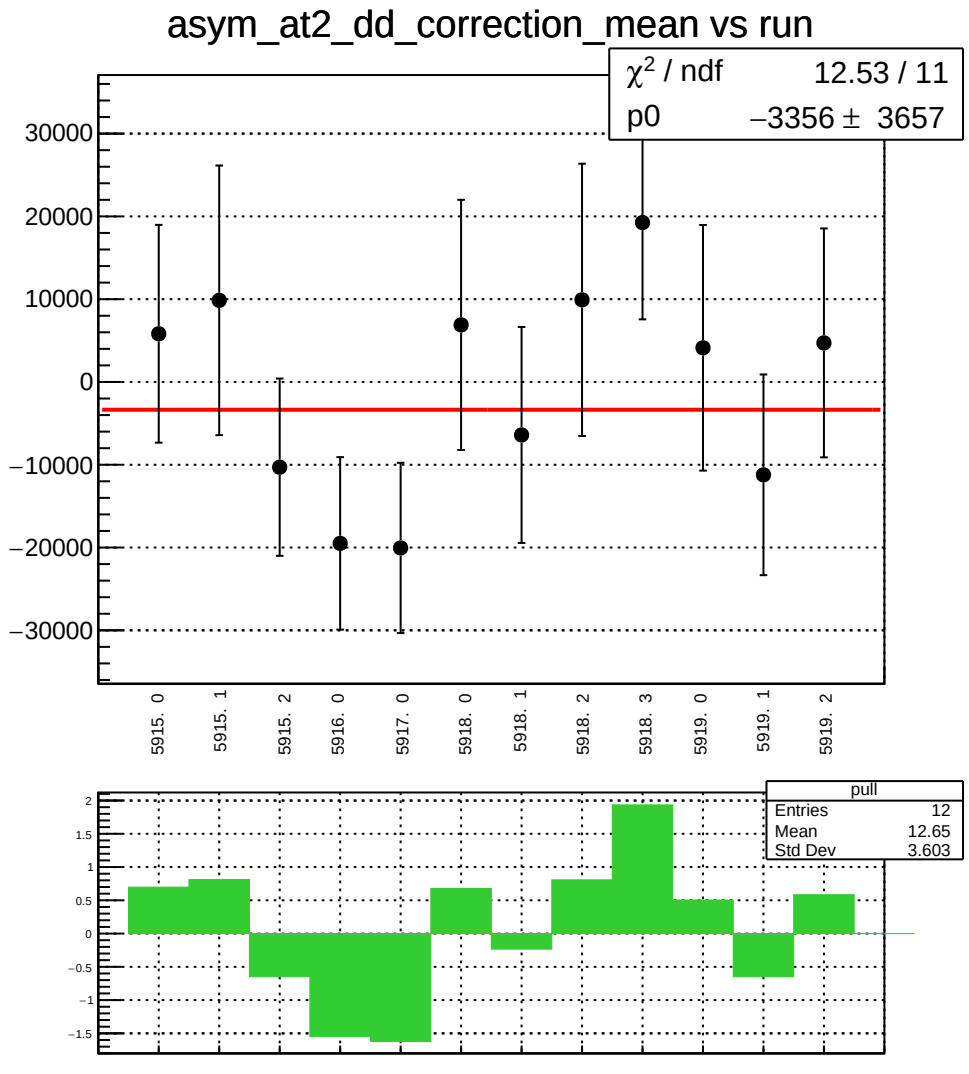

pull1D
Entries 12
Mean −0.0916
Std Dev 1.158
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

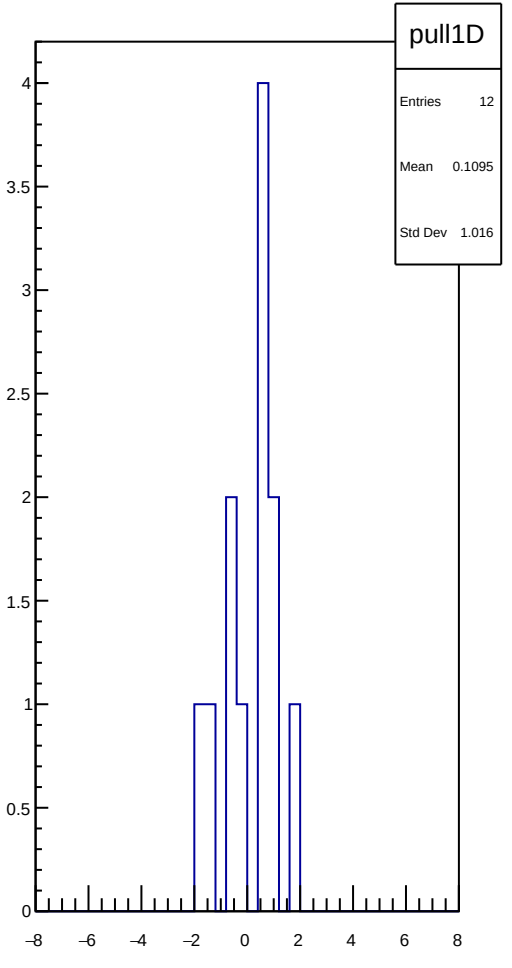

asym_at2_avg_rms vs run
χ² / ndf 435.2 / 11
p0 6791 ± 12.98
7200
7000
6800
6600
6400
6200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

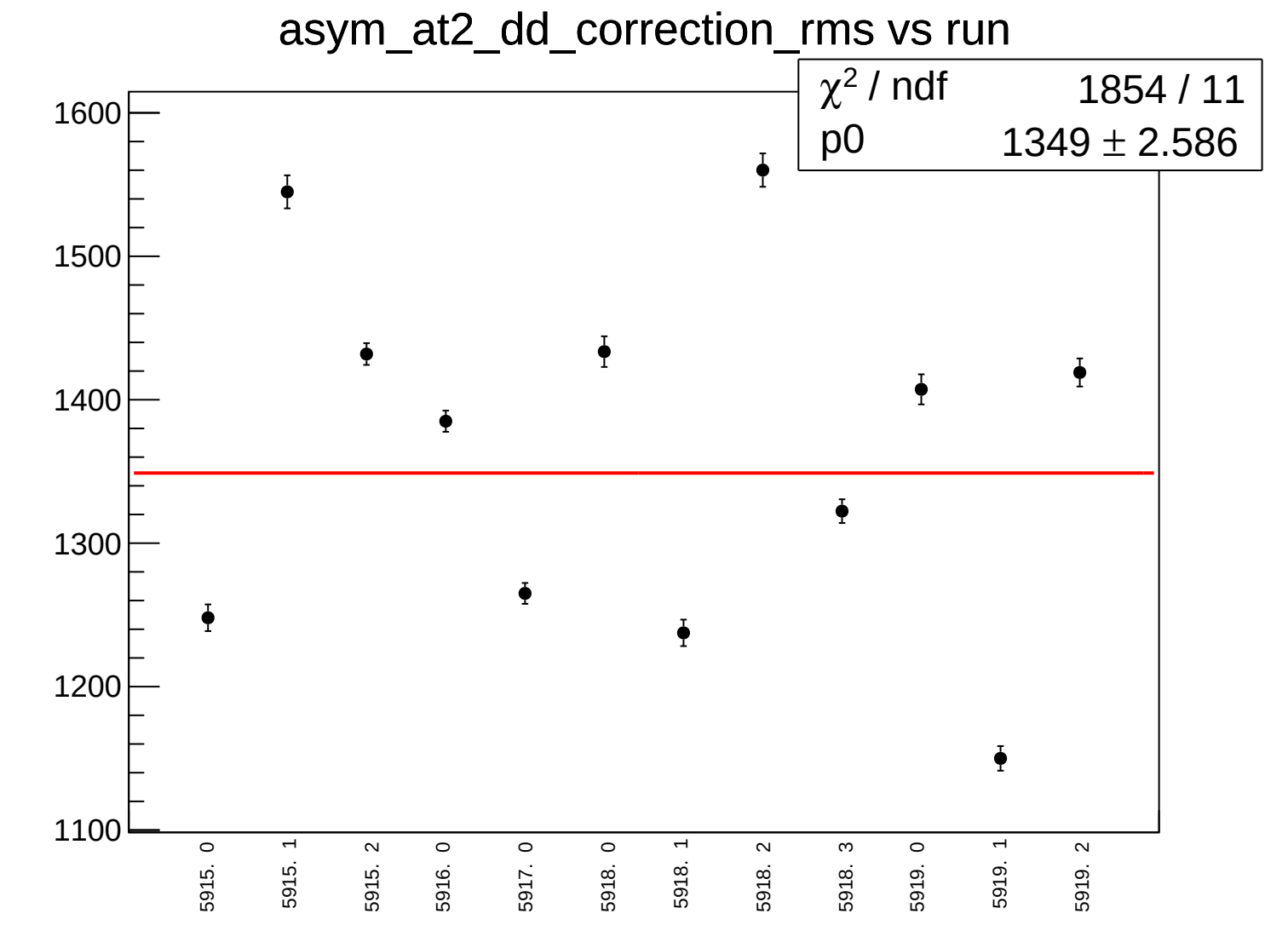

reg_asym_at2_dd_mean vs run
χ² / ndf 8.107 / 11
p0 7191 ± 4451
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 1.24
Std Dev 6
1.5
1
0.5
0
−0.5
−1

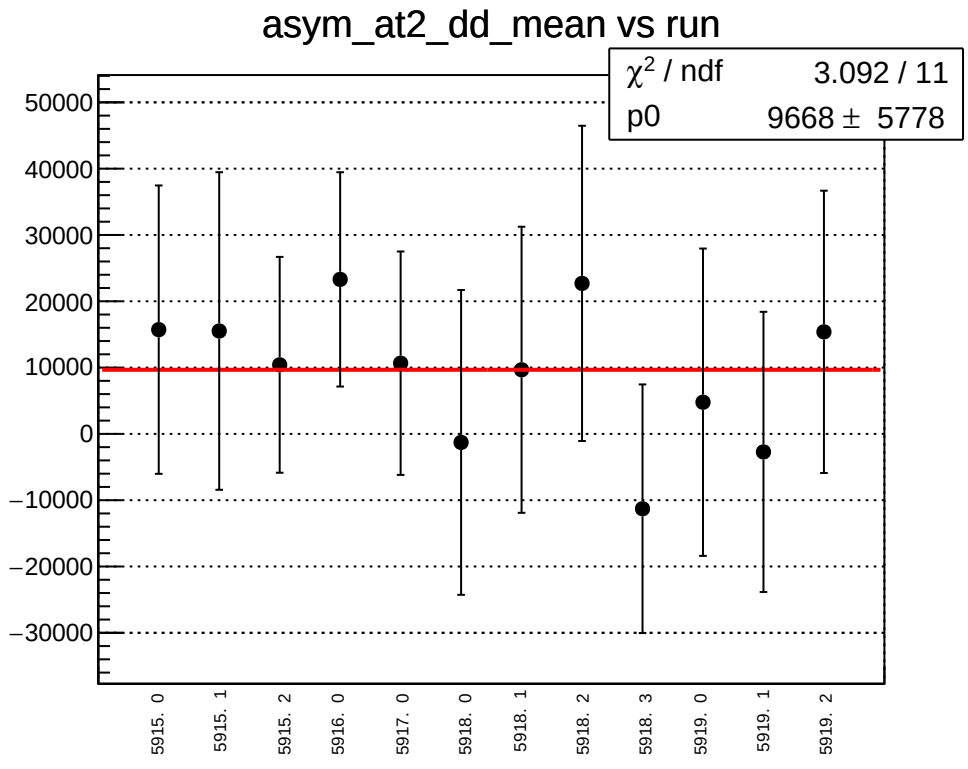

pull1D
Entries 12
Mean 0.05491
Std Dev 0.8201
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

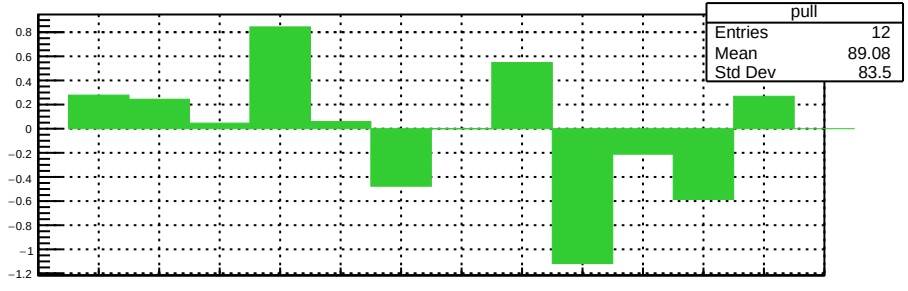

reg_asym_at2_dd_rms vs run
χ² / ndf 22.48 / 11
p0 1647 ± 3.147
1700
1680
1660
1640
1620
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

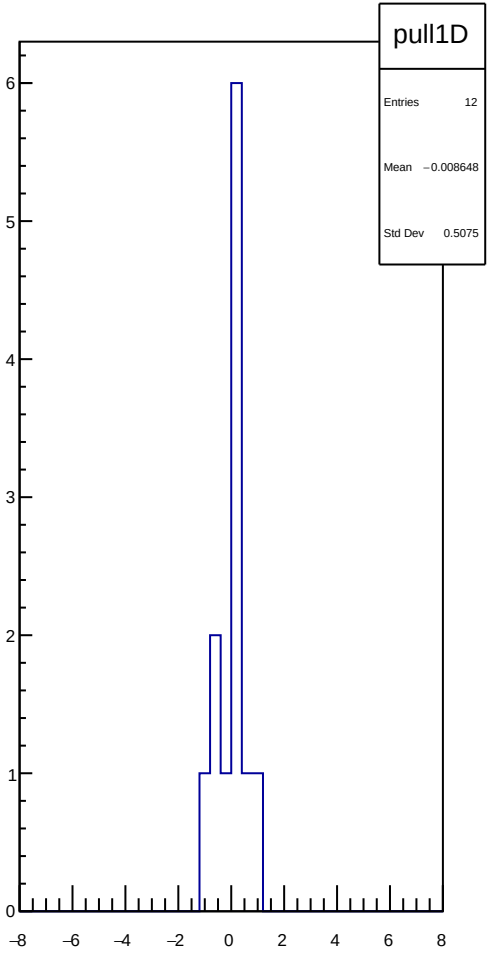

asym_at2_dd_correction_mean vs run
χ² / ndf 12.53 / 11
p0 −3356 ± 3657
30000
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.65
Std Dev 3.603
2
1.5
1
0.5
0
−0.5
−1
−1.5

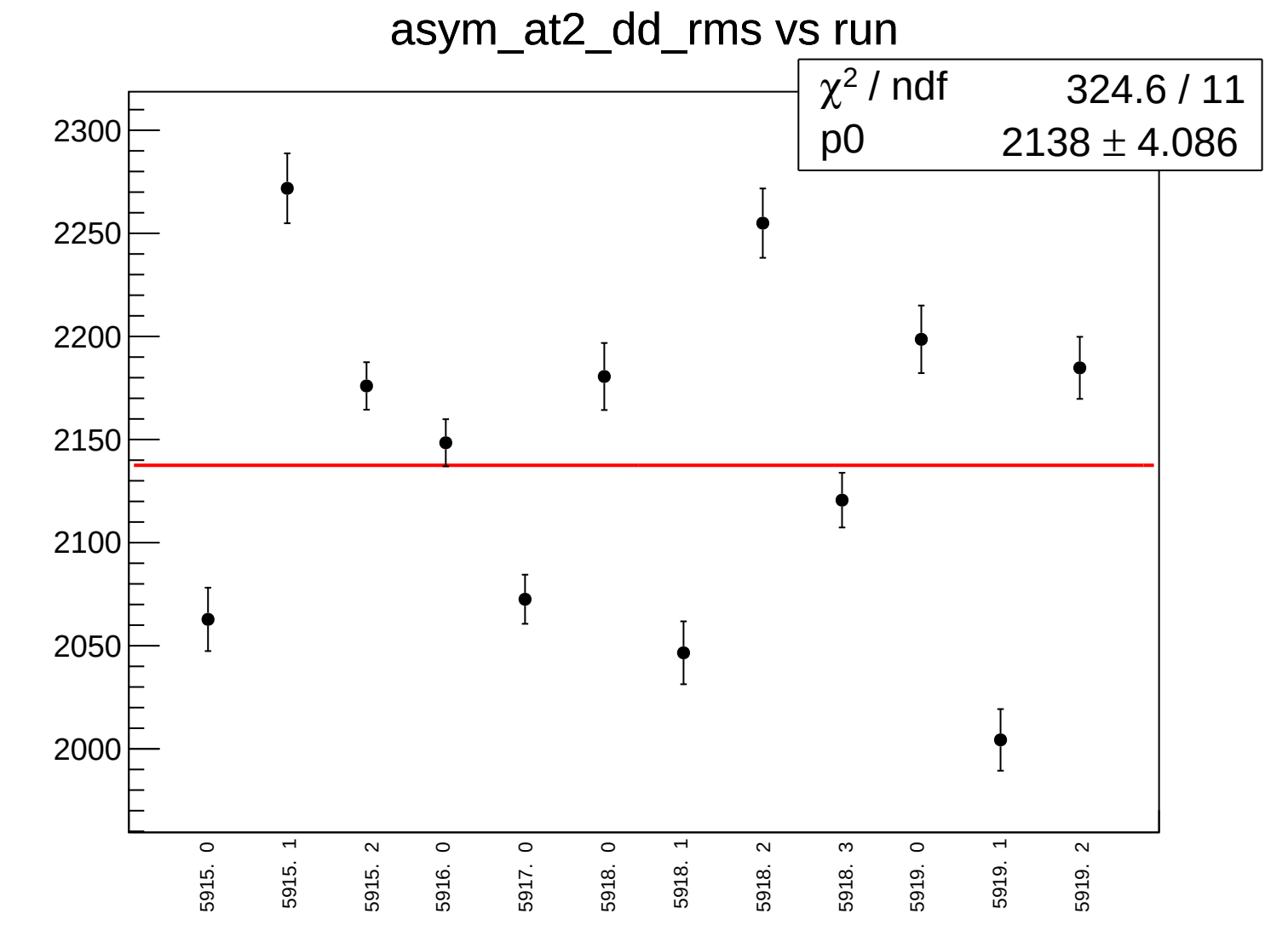

pull1D
Entries 12
Mean 0.1095
Std Dev 1.016
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

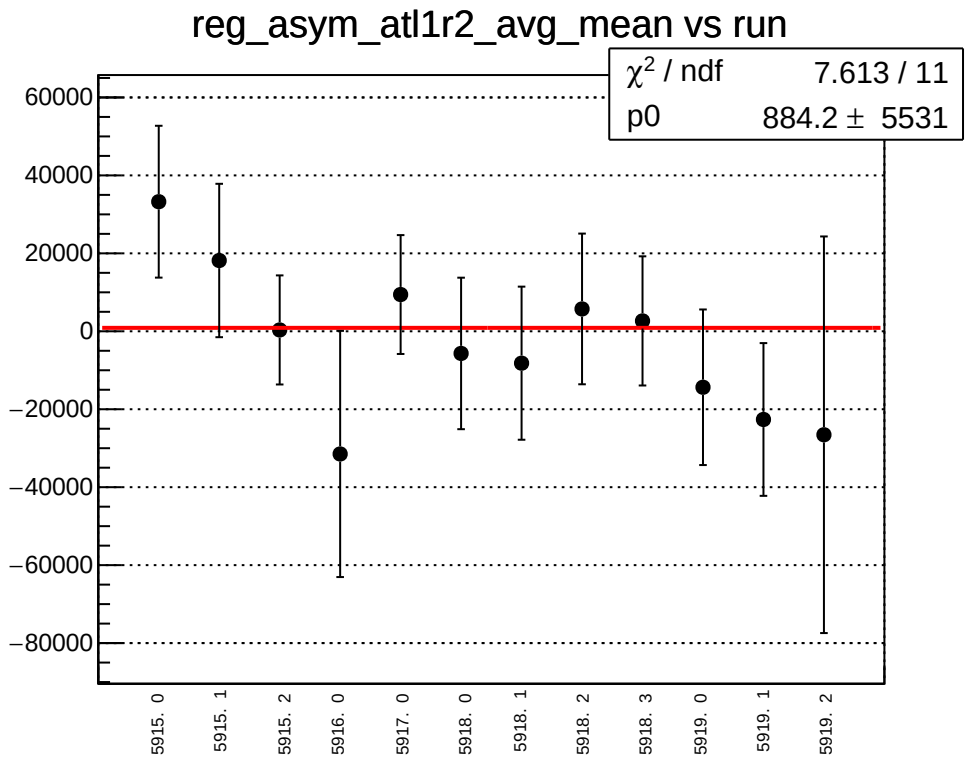

asym_at2_dd_correction_rms vs run
χ² / ndf 1854 / 11
p0 1349 ± 2.586
1600
1500
1400
1300
1200
1100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

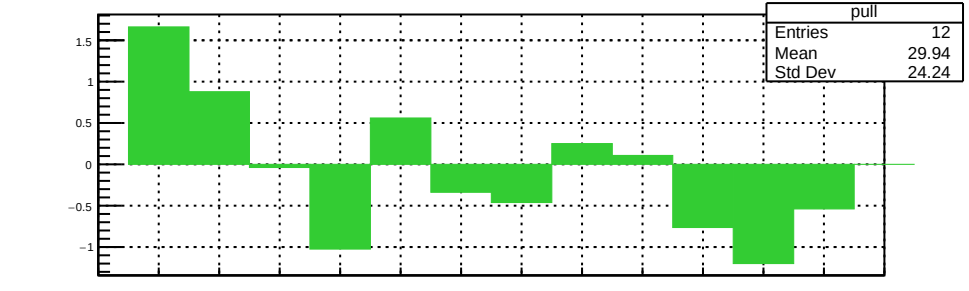

asym_at2_dd_mean vs run
χ² / ndf 3.092 / 11
p0 9668 ± 5778
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

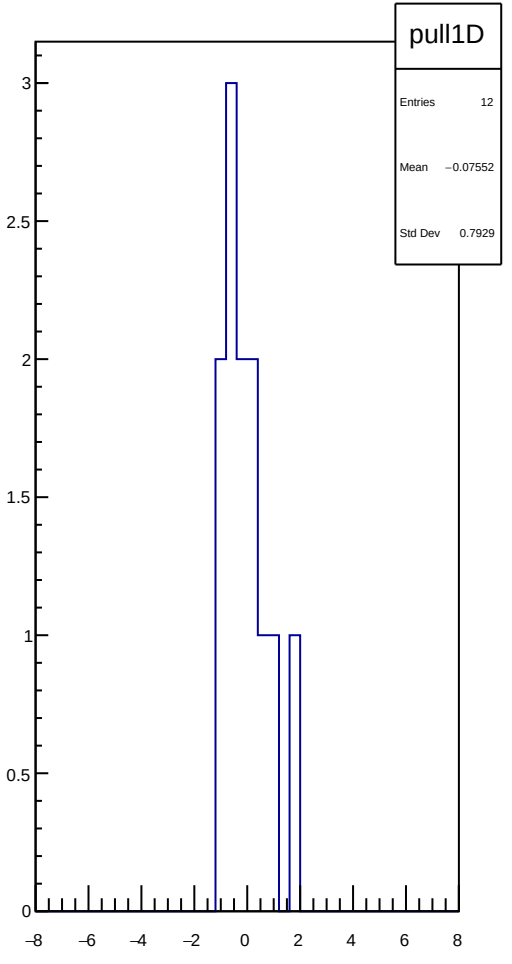

pull
Entries 12
Mean 89.08
Std Dev 83.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

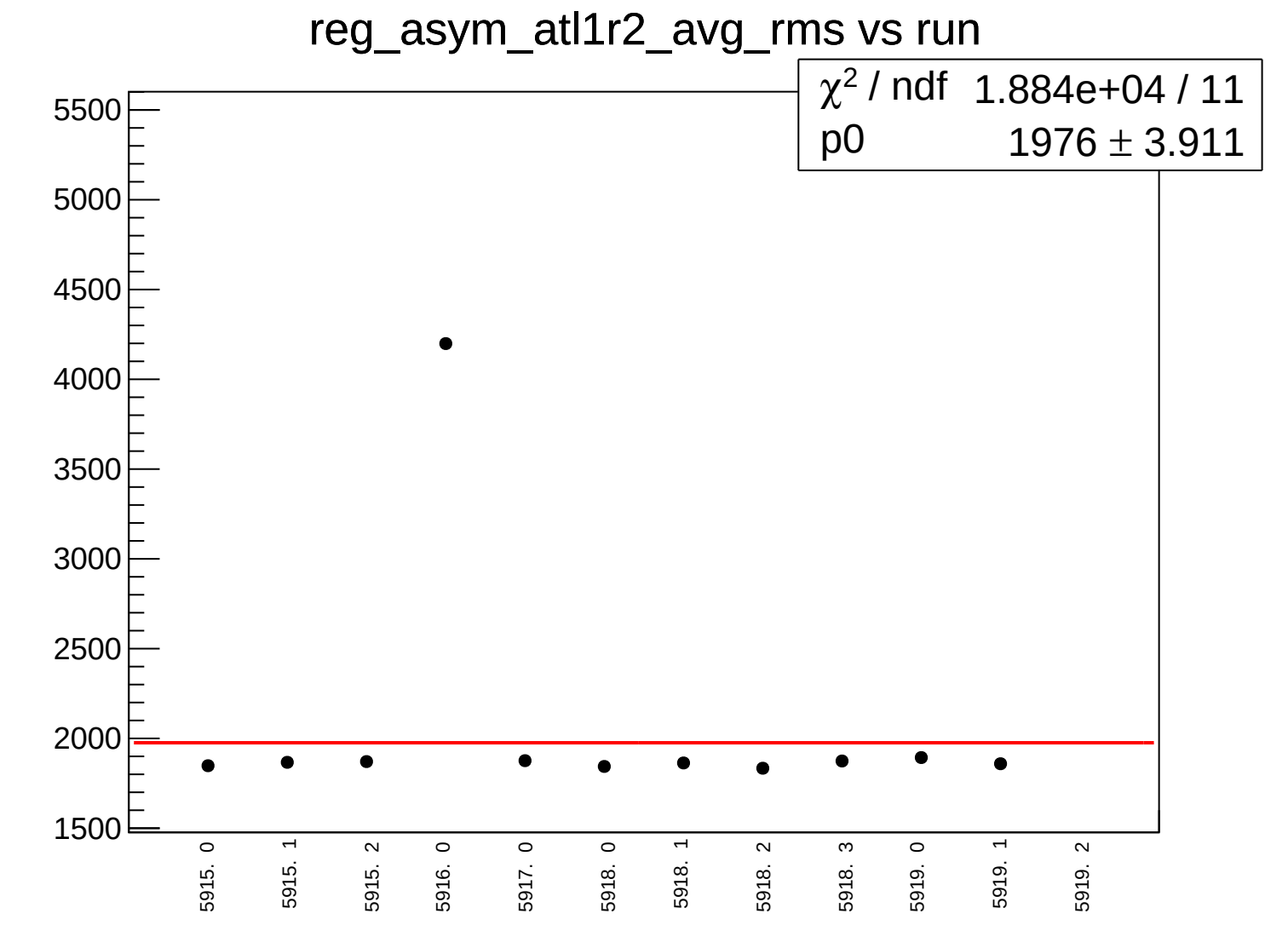

pull1D
Entries 12
Mean −0.008648
Std Dev 0.5075
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

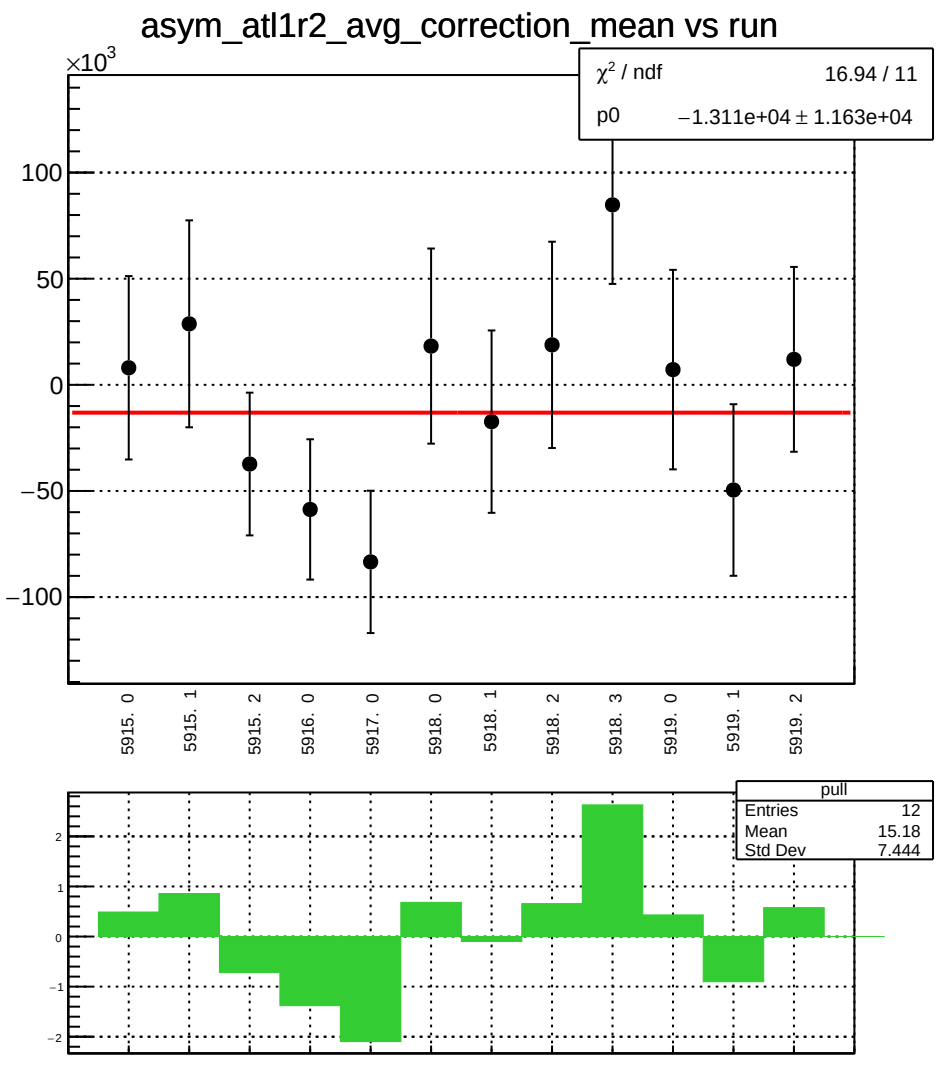

asym_at2_dd_rms vs run
χ² / ndf 324.6 / 11
p0 2138 ± 4.086
2300
2250
2200
2150
2100
2050
2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

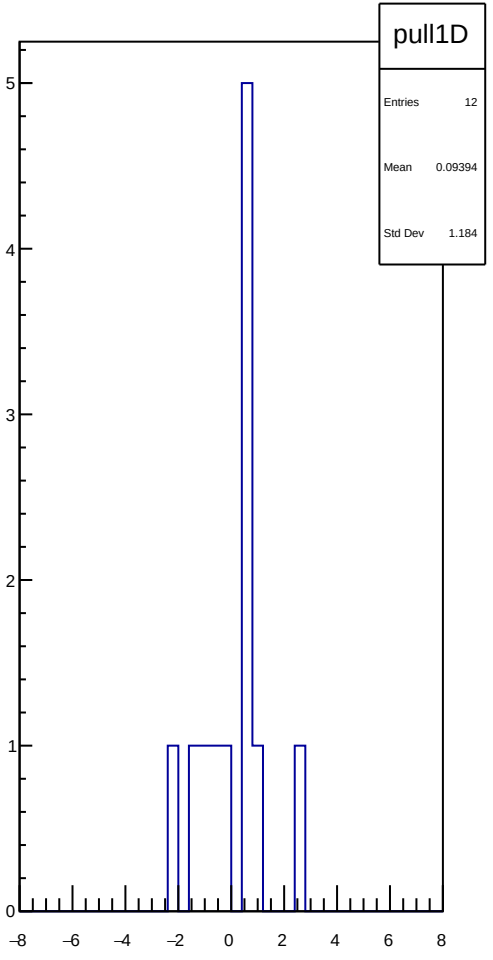

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 7.613 / 11
p0 884.2 ± 5531
60000
40000
20000
0
−20000
−40000
−60000
−80000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

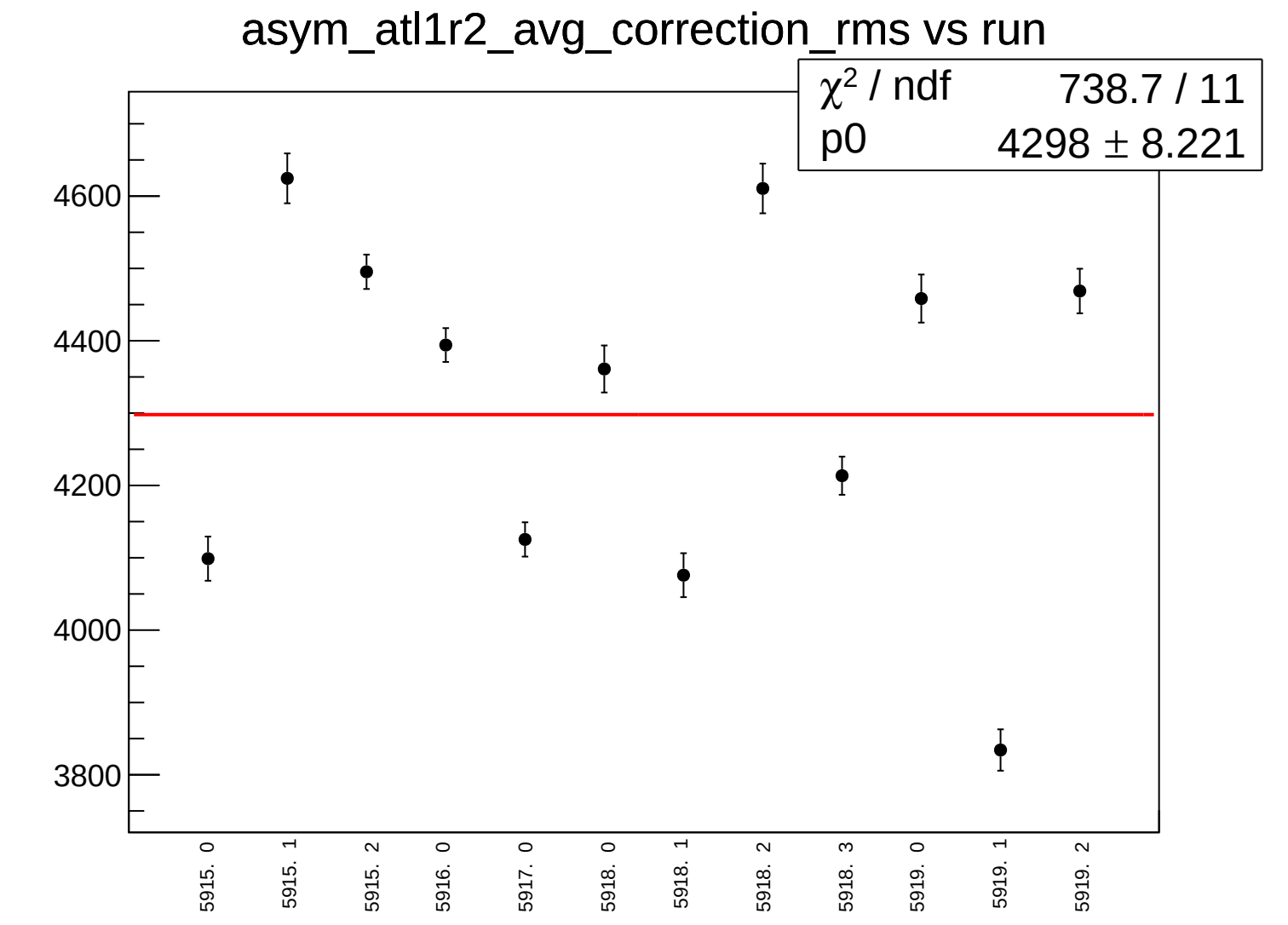

pull
Entries 12
Mean 29.94
Std Dev 24.24
1.5
1
0.5
0
−0.5
−1

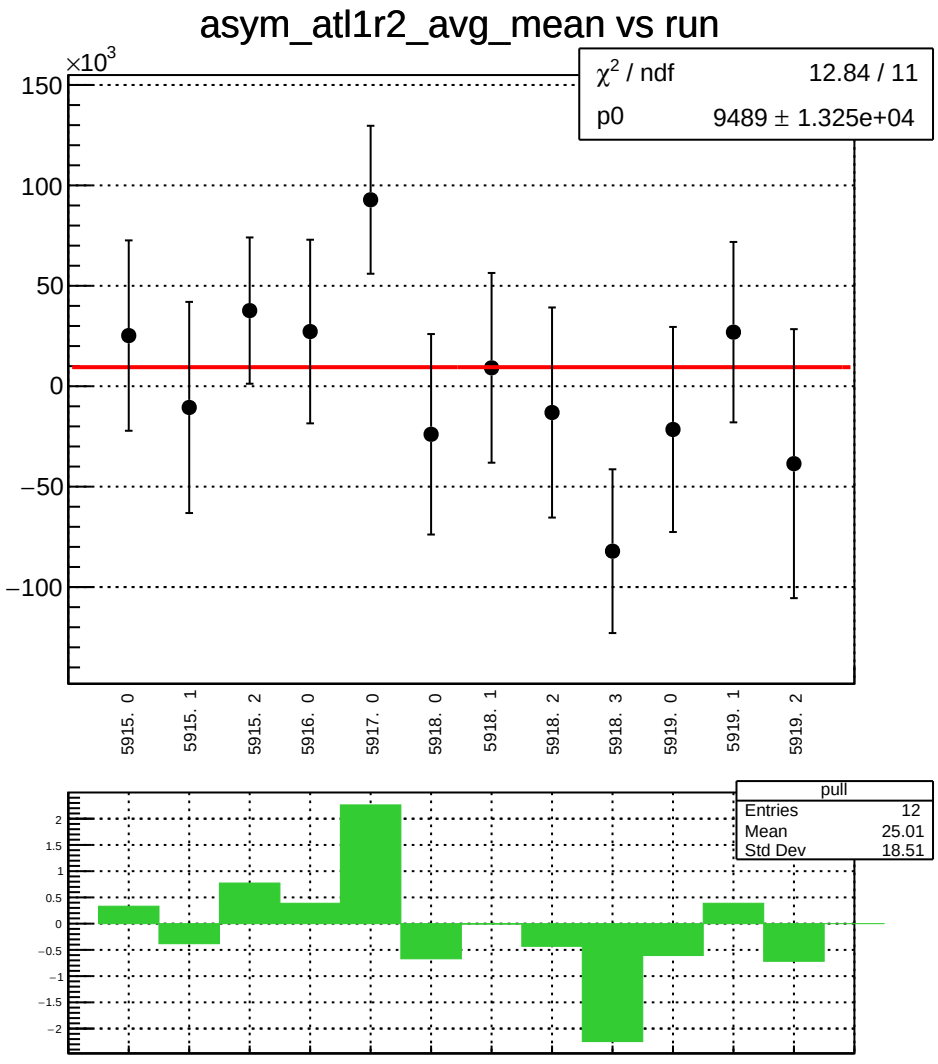

pull1D
Entries 12
Mean −0.07552
Std Dev 0.7929
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

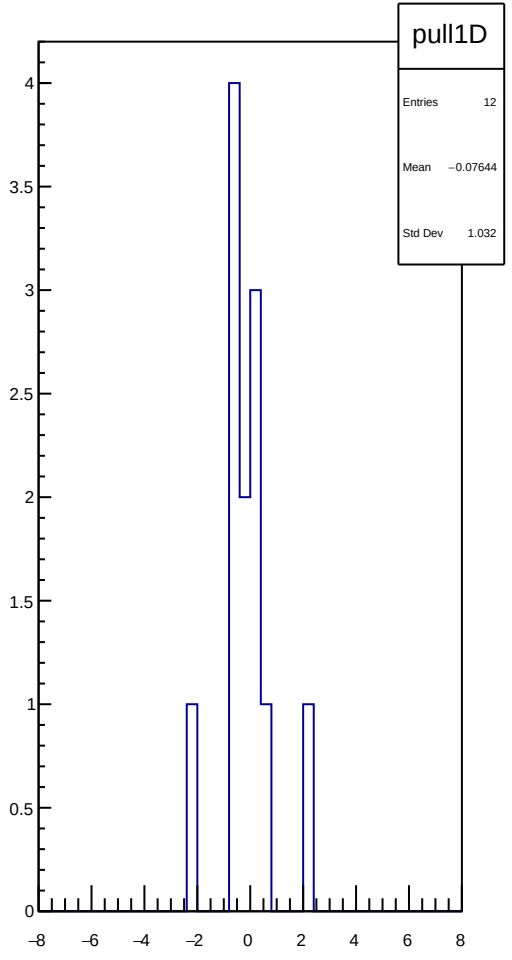

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.884e+04 / 11
p0 1976 ± 3.911
5500
5000
4500
4000
3500
3000
2500
2000
1500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

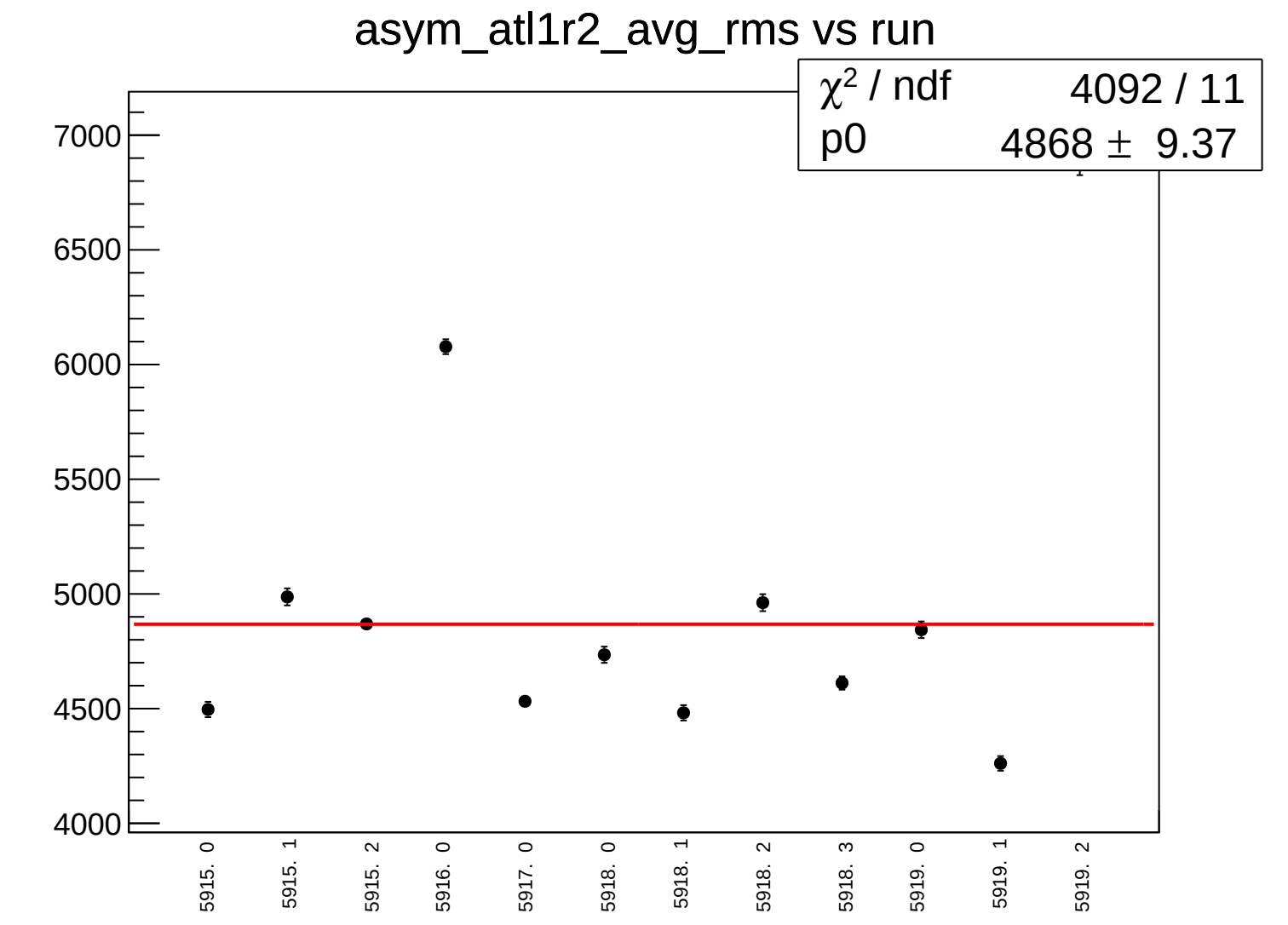

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 16.94 / 11
p0 −1.311e+04 ± 1.163e+04
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 15.18
Std Dev 7.444
2
1
0
−1
−2

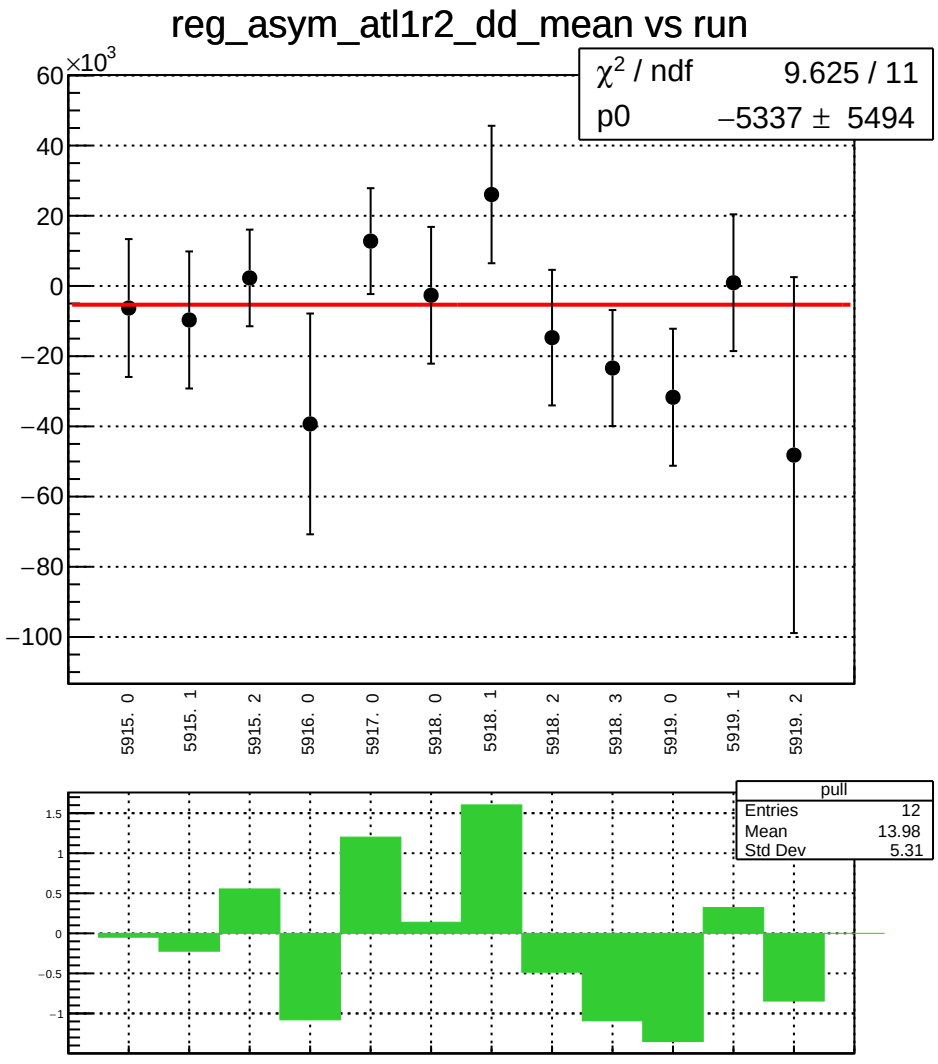

pull1D
Entries 12
Mean 0.09394
Std Dev 1.184
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

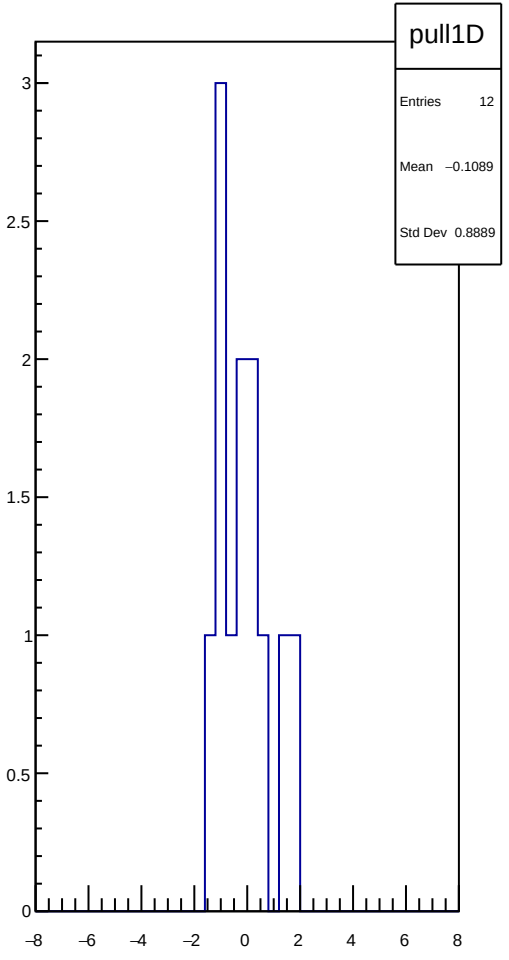

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 738.7 / 11
p0 4298 ± 8.221
4600
4400
4200
4000
3800
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

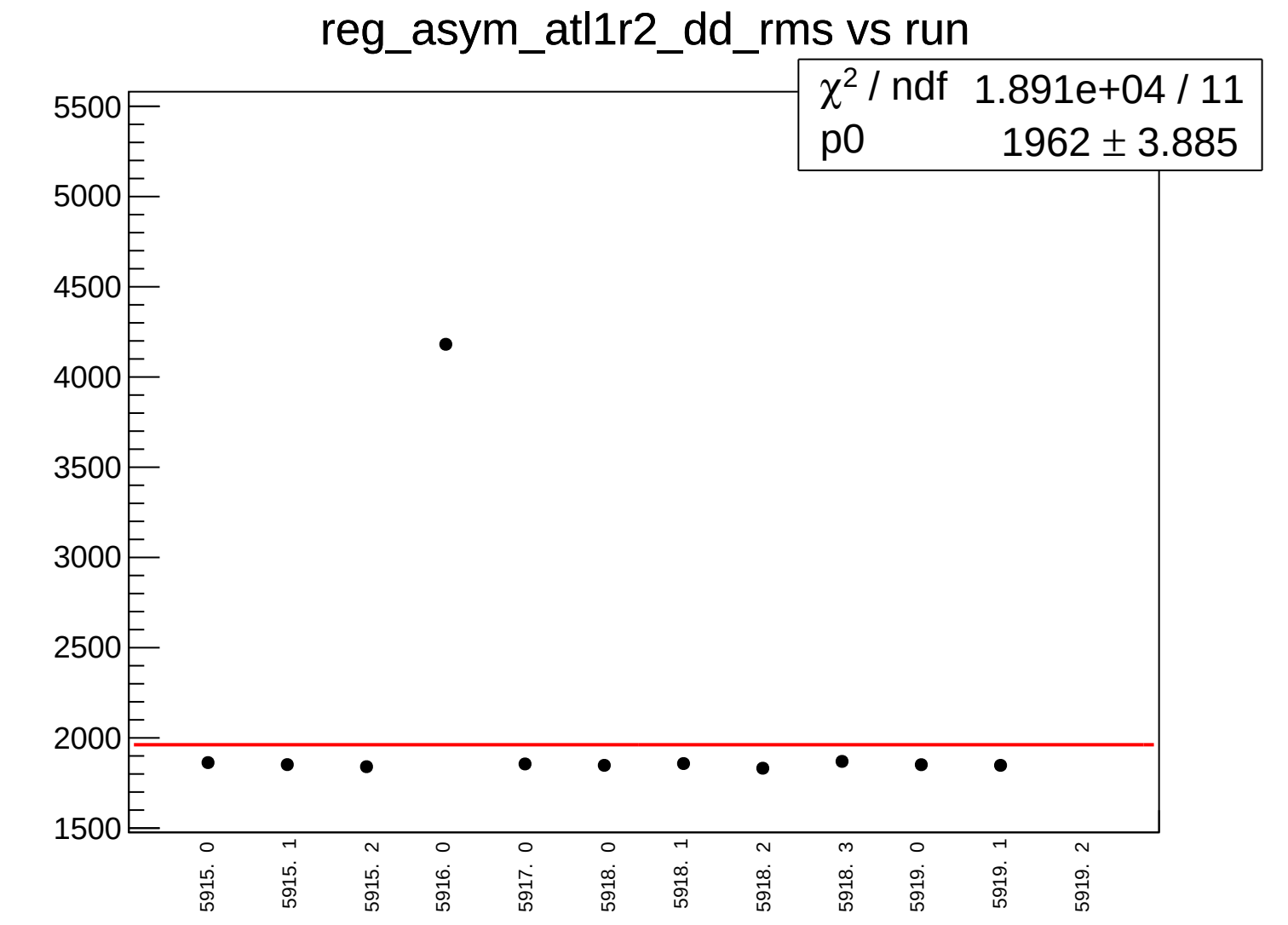

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 12.84 / 11
p0 9489 ± 1.325e+04
150
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 25.01
Std Dev 18.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

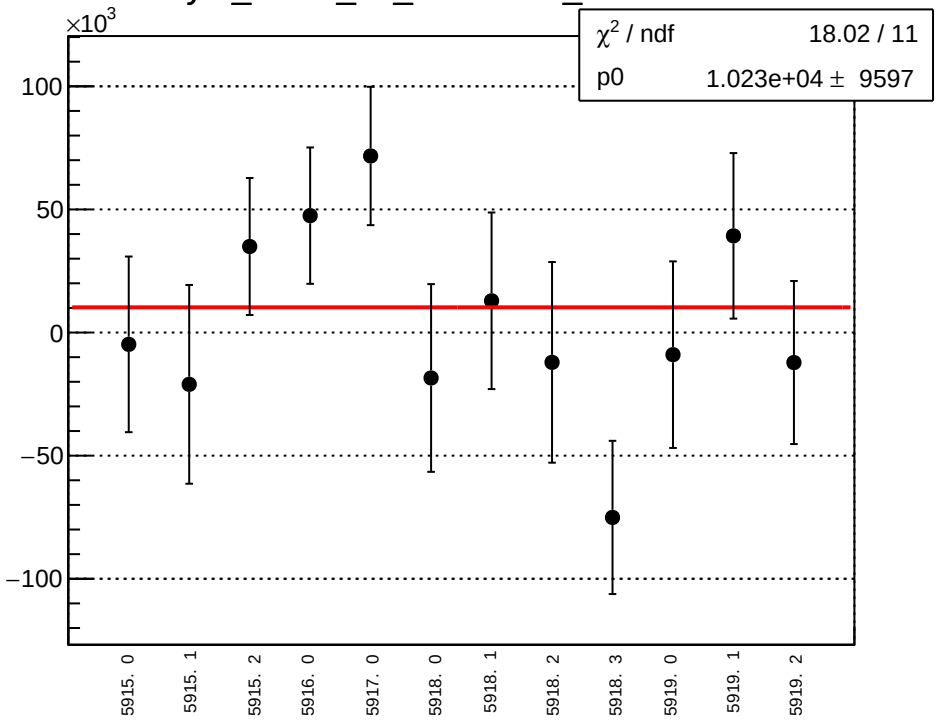

pull1D
Entries 12
Mean −0.07644
Std Dev 1.032
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

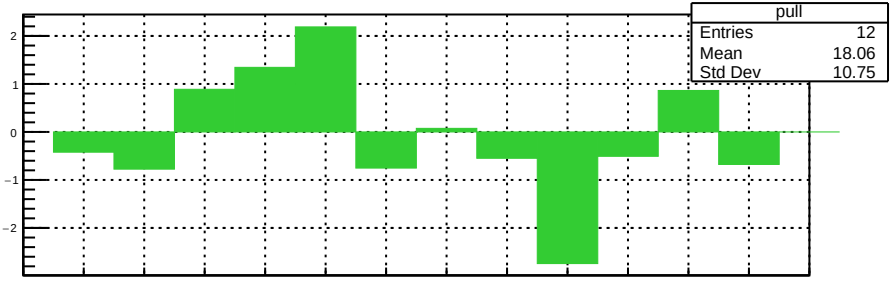

asym_atl1r2_avg_rms vs run
χ² / ndf 4092 / 11
p0 4868 ± 9.37
7000
6500
6000
5500
5000
4500
4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

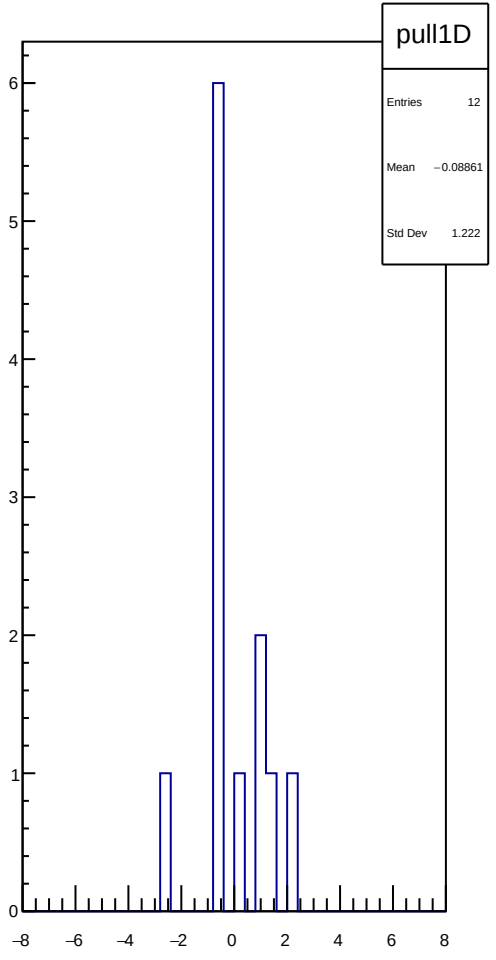

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 9.625 / 11
p0 −5337 ± 5494
×10³
60
40
20
0
−20
−40
−60
−80
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.98
Std Dev 5.31
1.5
1
0.5
0
−0.5
−1

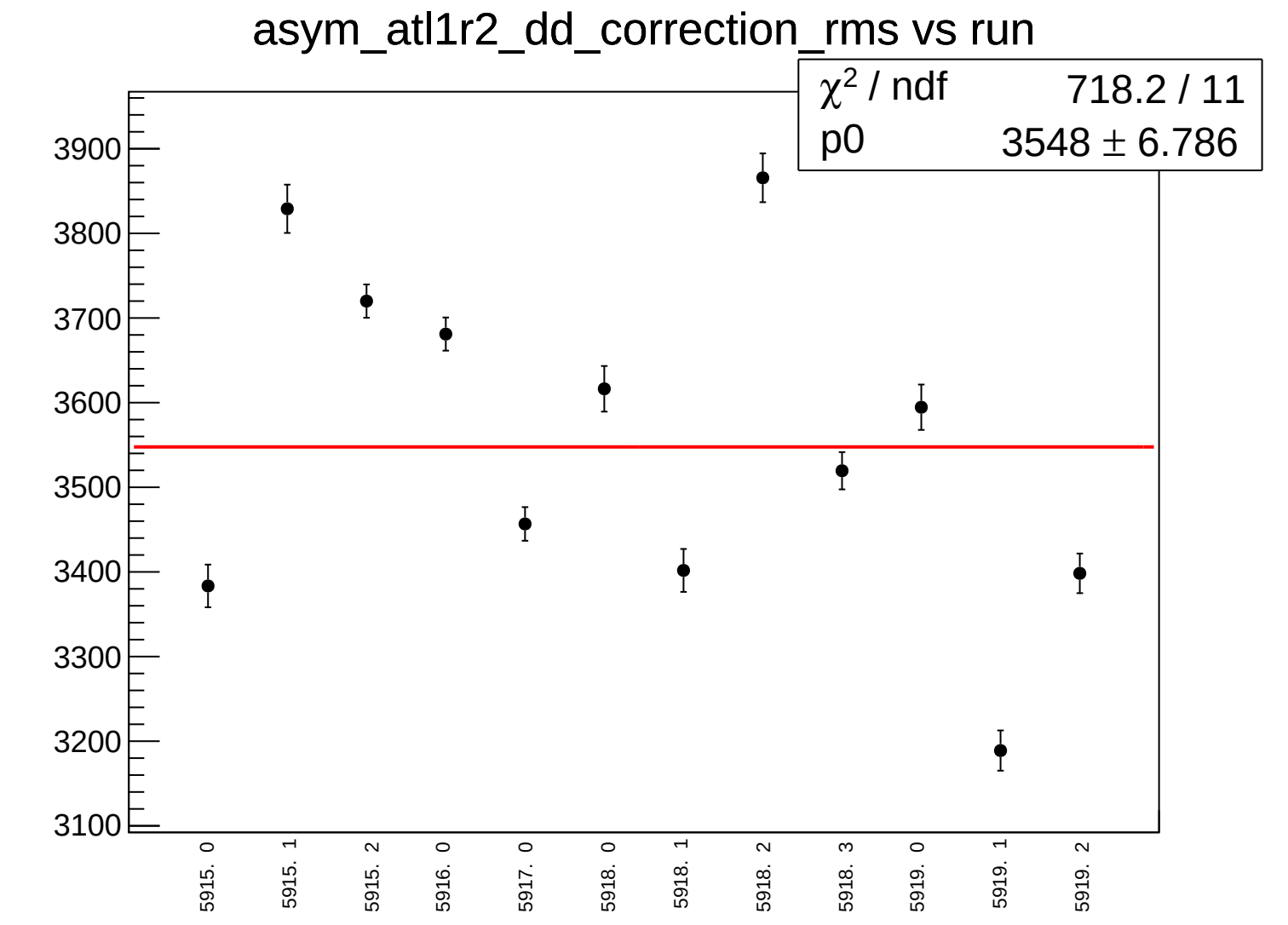

pull1D
Entries 12
Mean −0.1089
Std Dev 0.8889
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

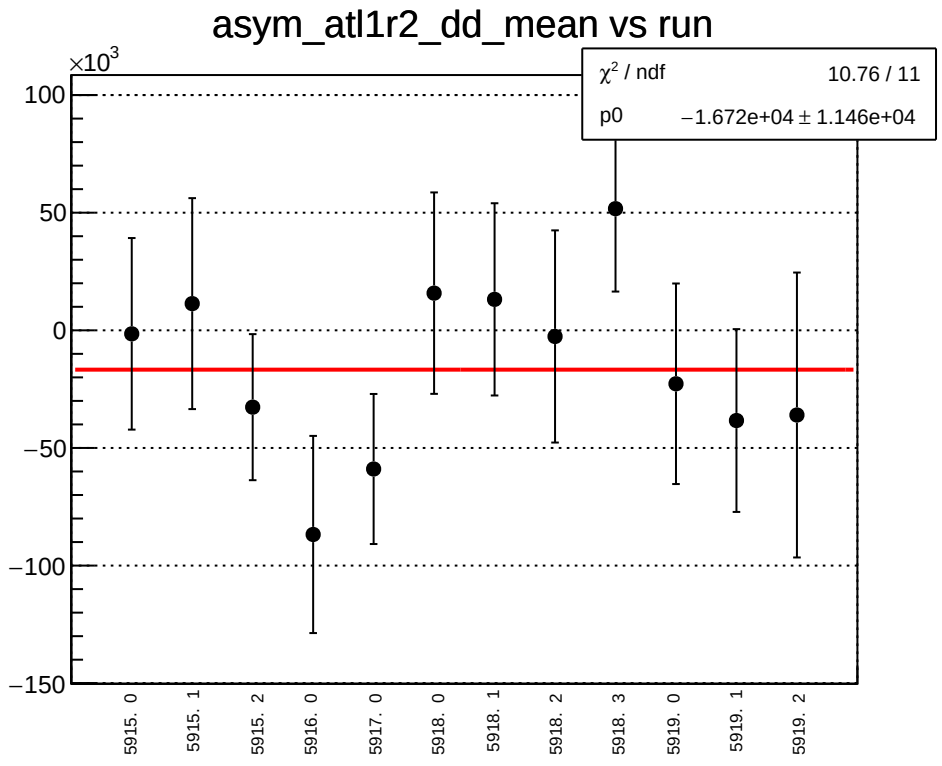

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 1.891e+04 / 11
p0 1962 ± 3.885
5500
5000
4500
4000
3500
3000
2500
2000
1500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

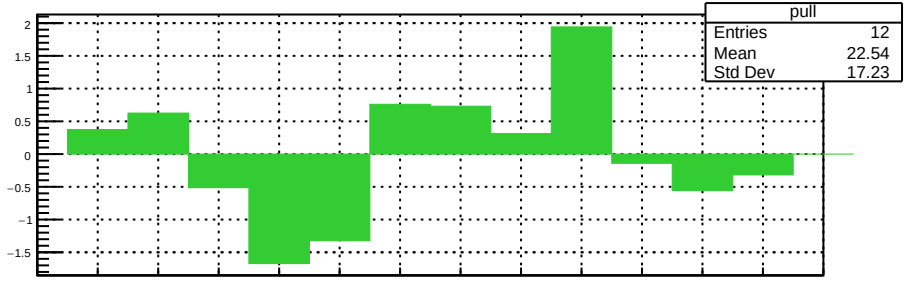

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 18.02 / 11
p0 1.023e+04 ± 9597
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

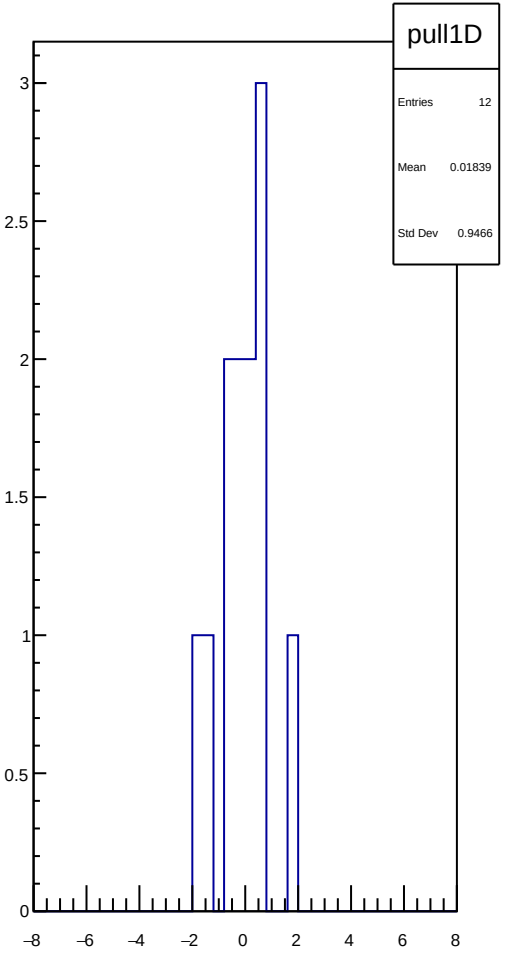

pull
Entries 12
Mean 18.06
Std Dev 10.75
2
1
0
−1
−2

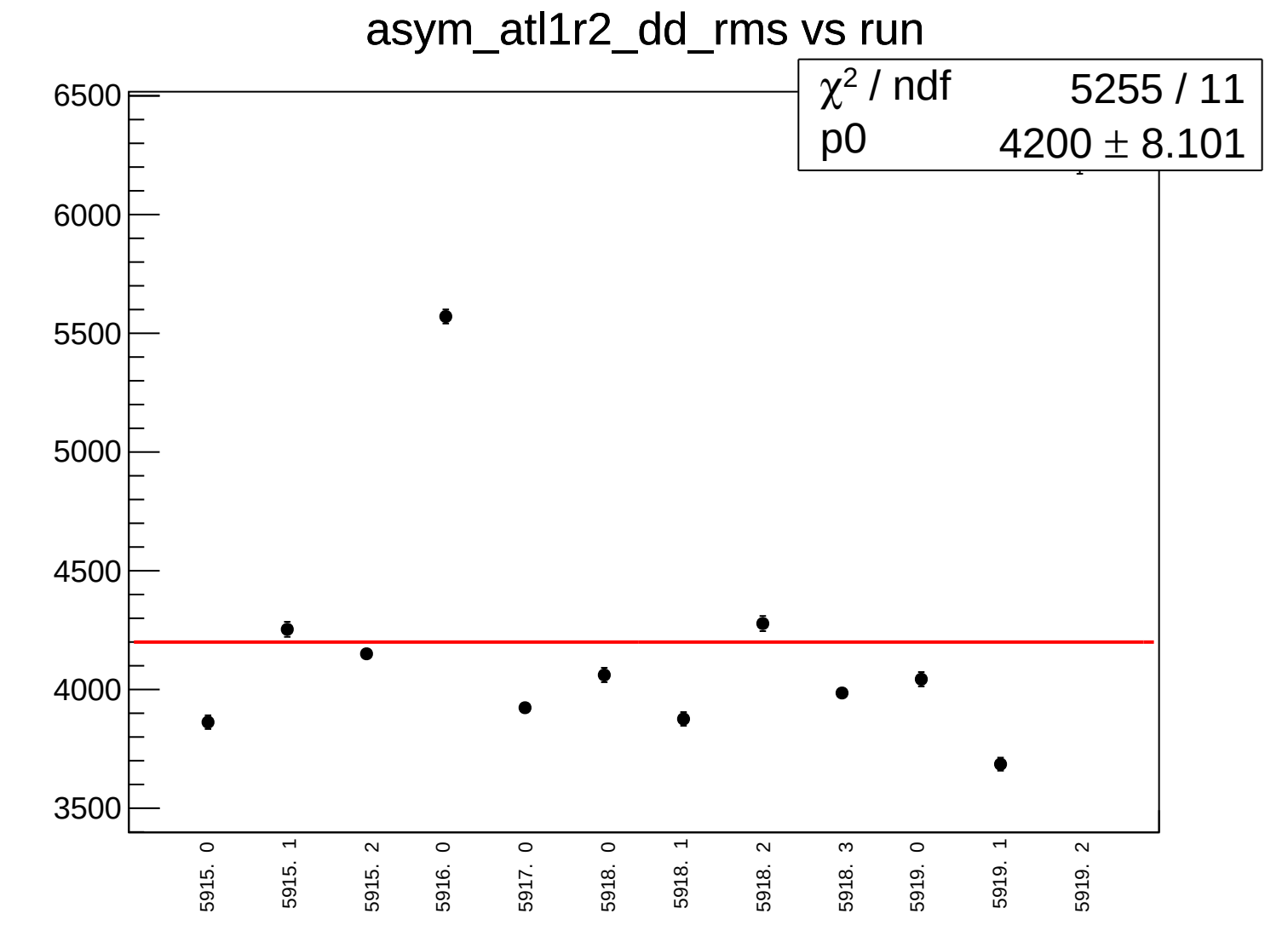

pull1D
Entries 12
Mean −0.08861
Std Dev 1.222
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

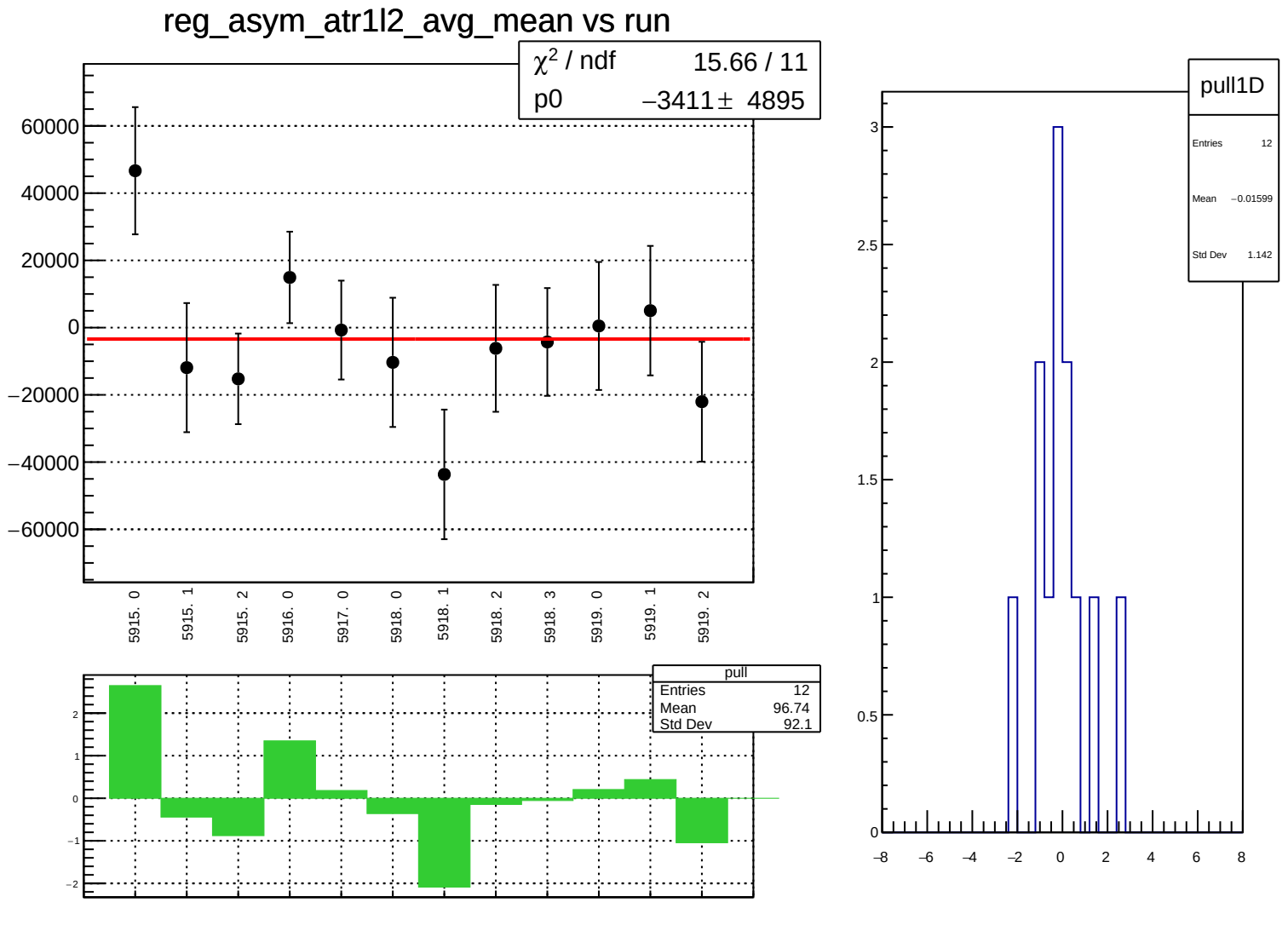

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 718.2 / 11
p0 3548 ± 6.786
3900
3800
3700
3600
3500
3400
3300
3200
3100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

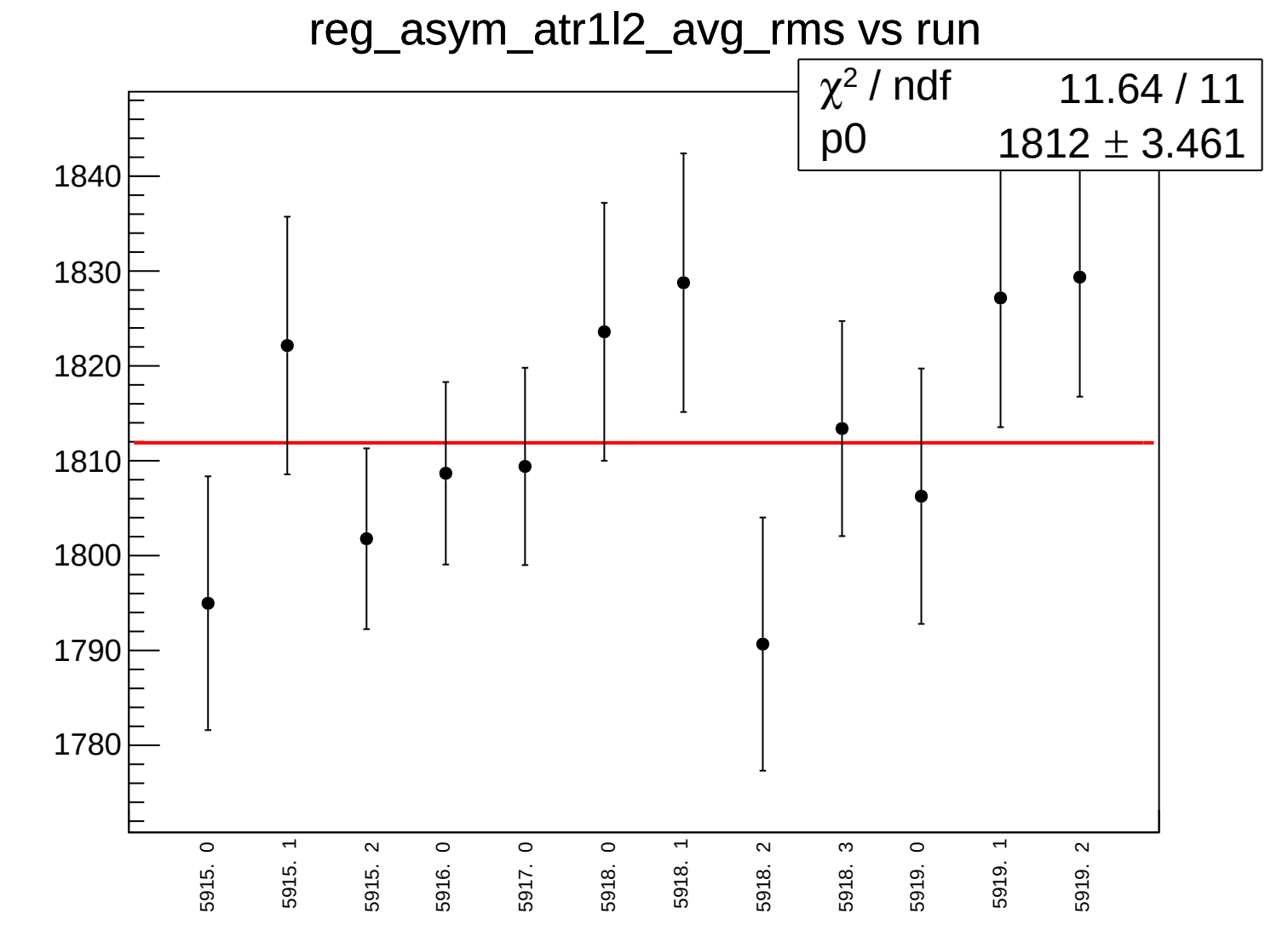

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 10.76 / 11
p0 −1.672e+04 ± 1.146e+04
100
50
0
−50
−100
−150
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

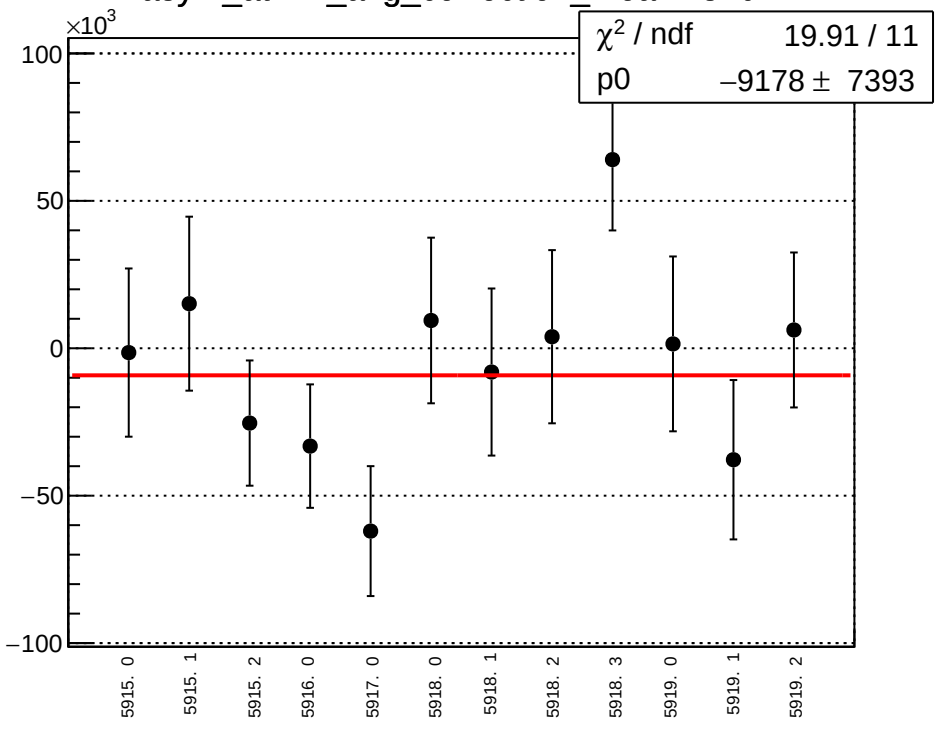

pull
Entries 12
Mean 22.54
Std Dev 17.23
2
1.5
1
0.5
0
−0.5
−1
−1.5

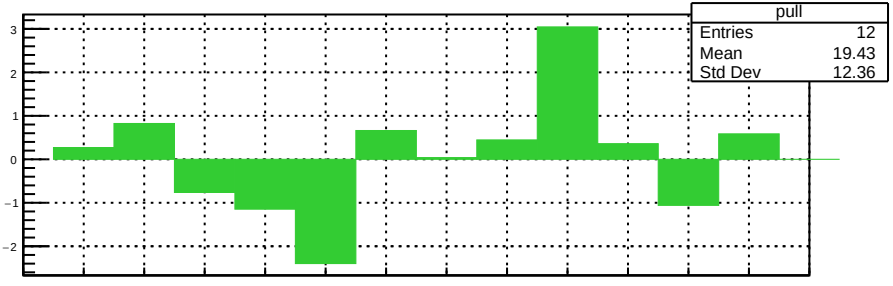

pull1D
Entries 12
Mean 0.01839
Std Dev 0.9466
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

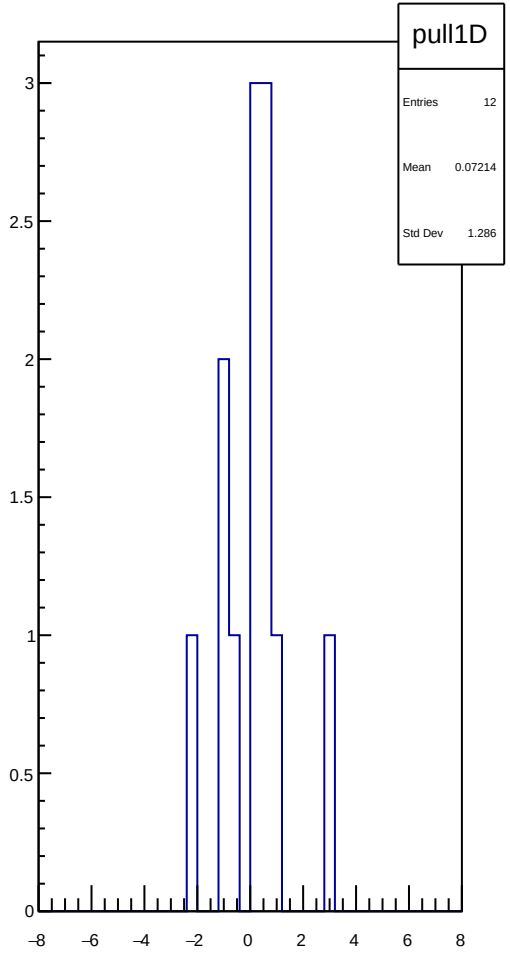

asym_atl1r2_dd_rms vs run
χ² / ndf 5255 / 11
p0 4200 ± 8.101
6500
6000
5500
5000
4500
4000
3500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

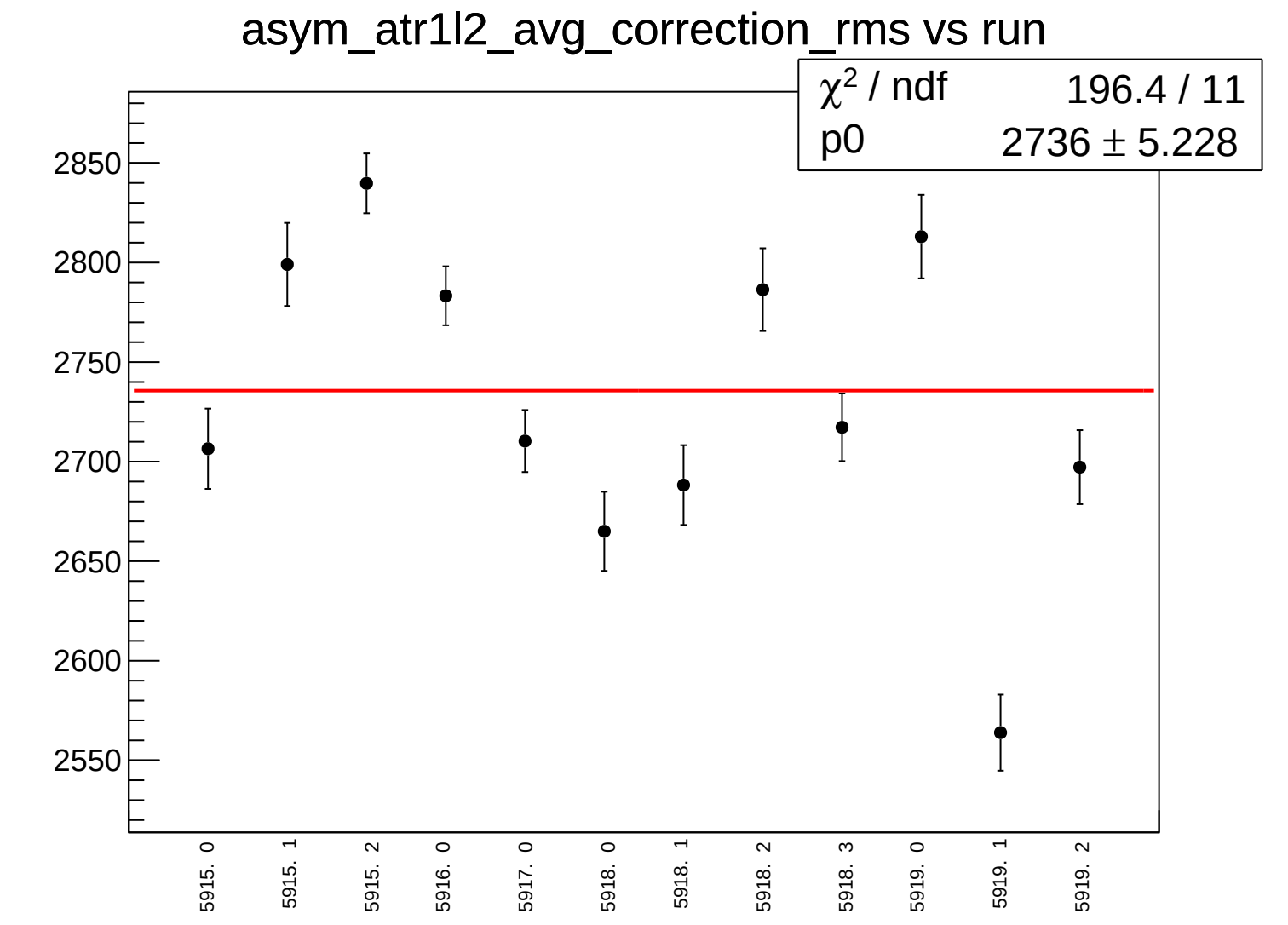

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 15.66 / 11
p0 −3411 ± 4895
60000
40000
20000
0
−20000
−40000
−60000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 96.74
Std Dev 92.1
2
1
0
−1
−2
pull1D
Entries 12
Mean −0.01599
Std Dev 1.142
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

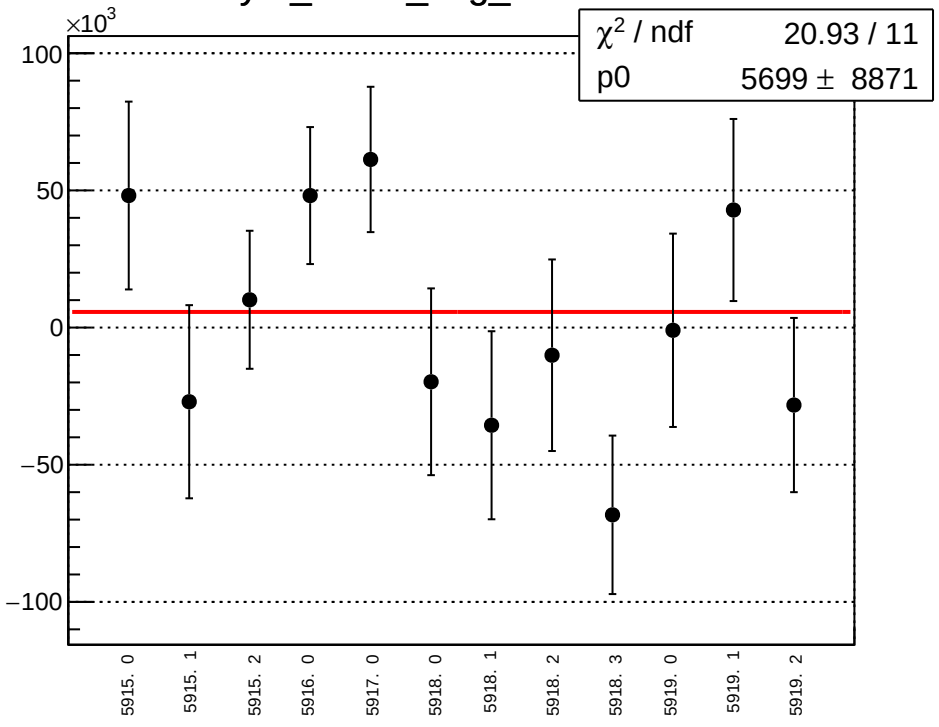

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 11.64 / 11
p0 1812 ± 3.461
1840
1830
1820
1810
1800
1790
1780
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

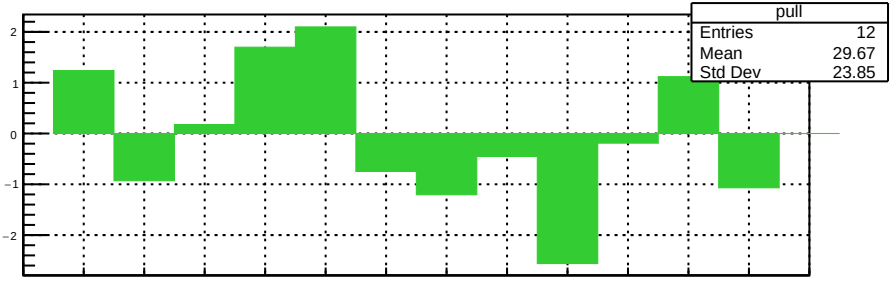

asym_atr1l2_avg_correction_mean vs run
×10^3
χ^2 / ndf 19.91 / 11
p0 −9178 ± 7393
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

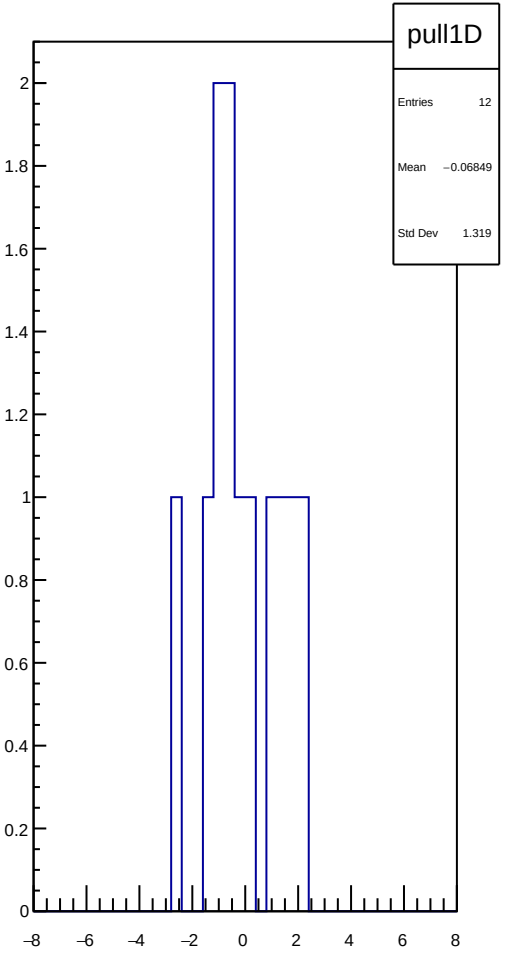

pull
Entries 12
Mean 19.43
Std Dev 12.36
3
2
1
0
−1
−2

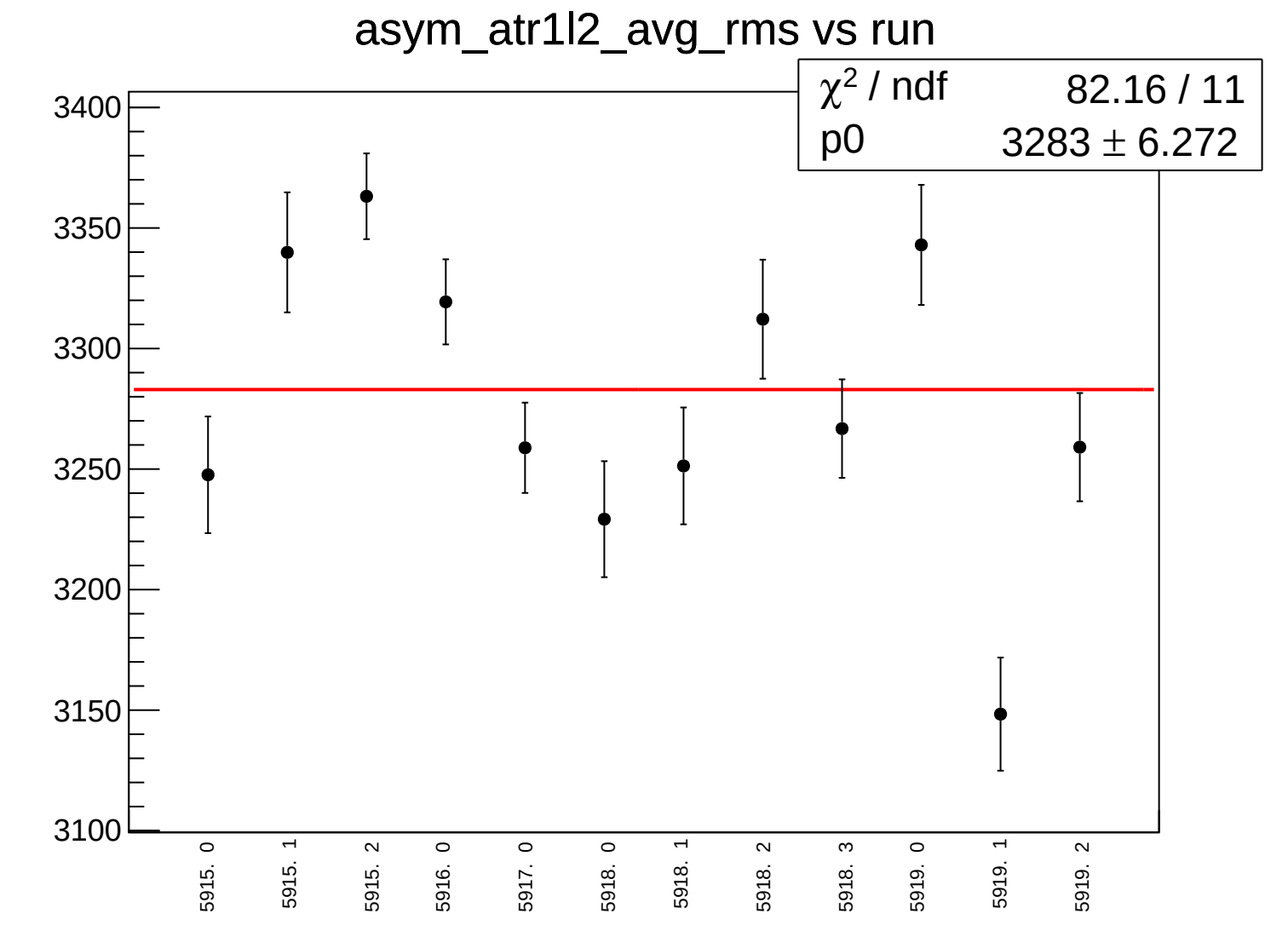

pull1D
Entries 12
Mean 0.07214
Std Dev 1.286
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

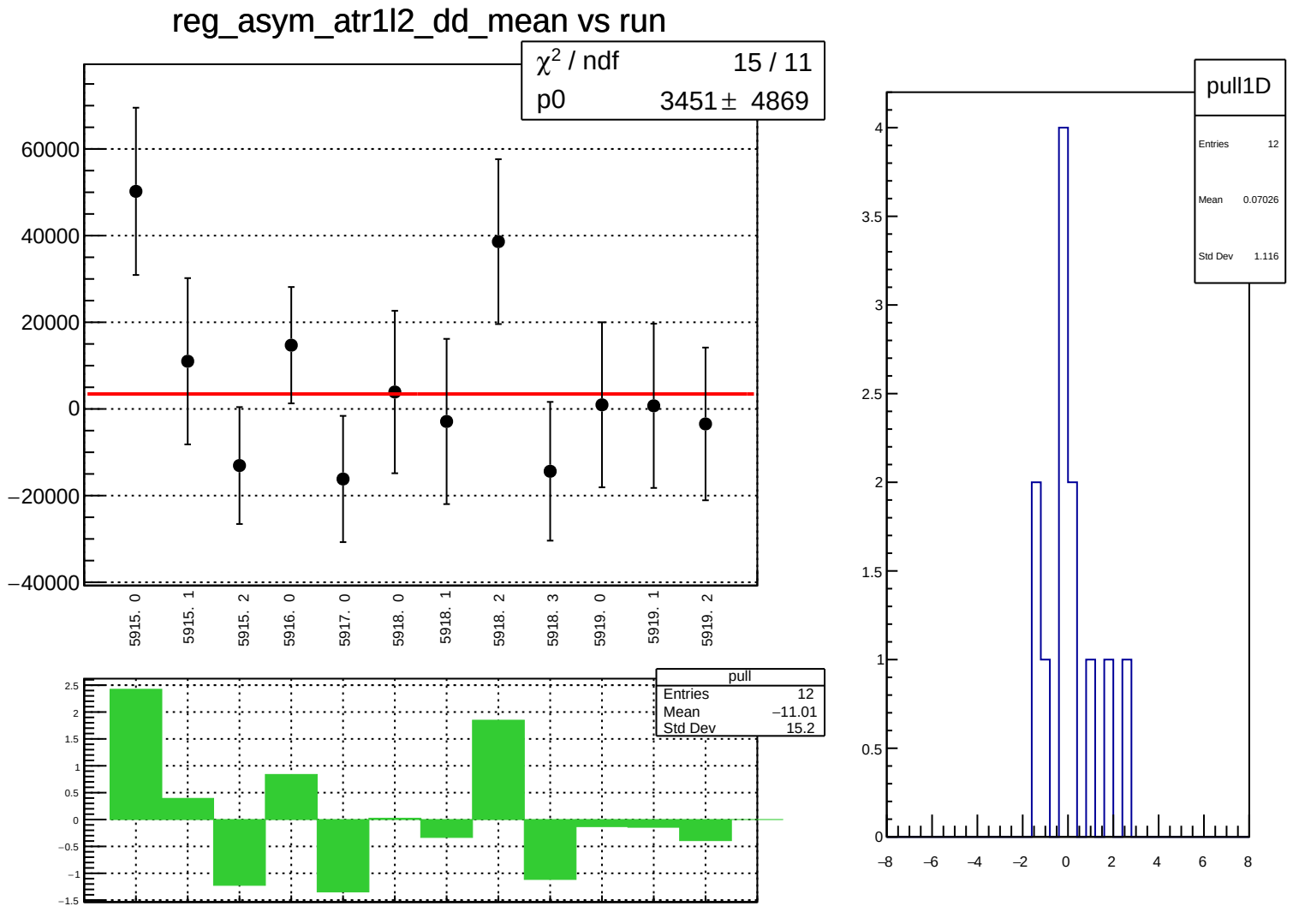

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 196.4 / 11
p0 2736 ± 5.228
2850
2800
2750
2700
2650
2600
2550
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

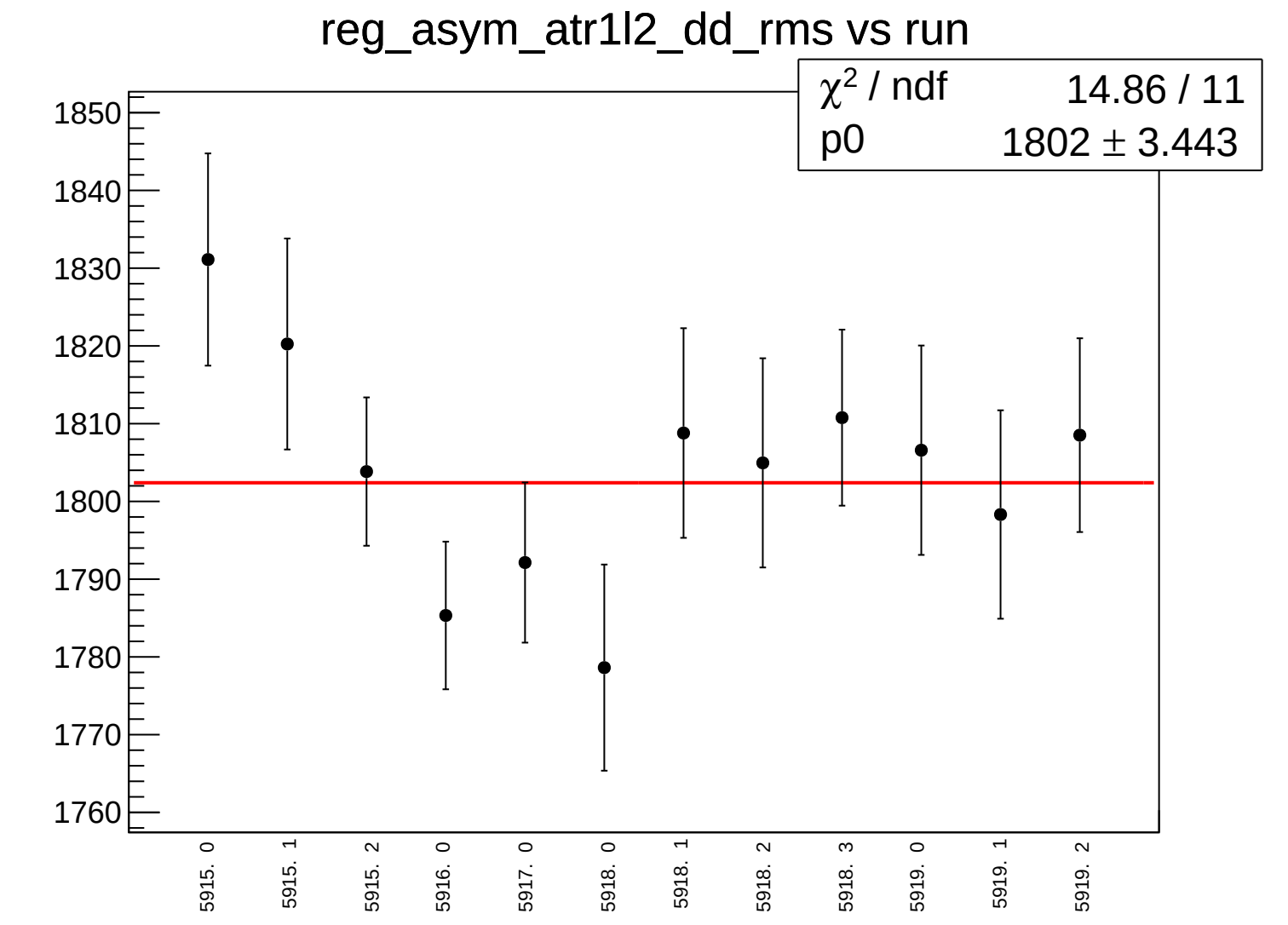

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 20.93 / 11
p0 5699 ± 8871
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

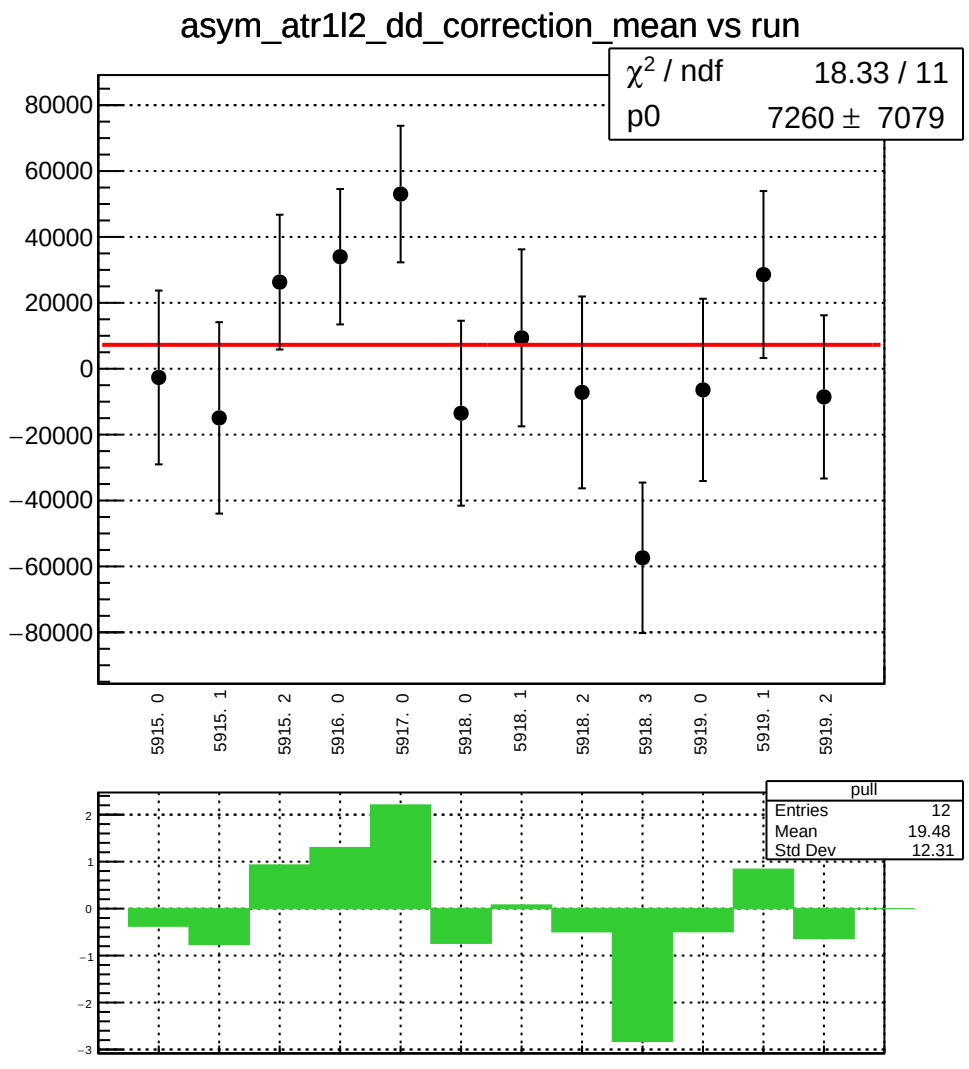

pull
Entries 12
Mean 29.67
Std Dev 23.85
2
1
0
−1
−2

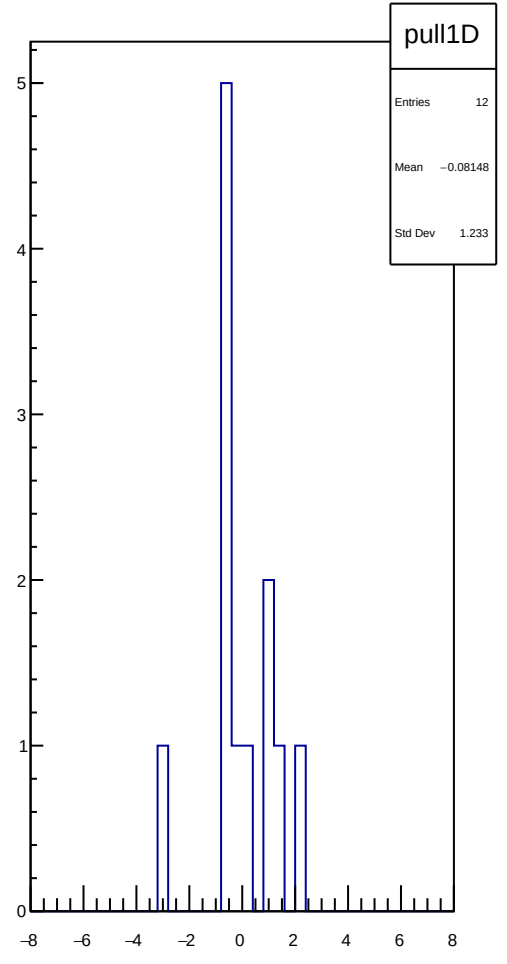

pull1D
Entries 12
Mean −0.06849
Std Dev 1.319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

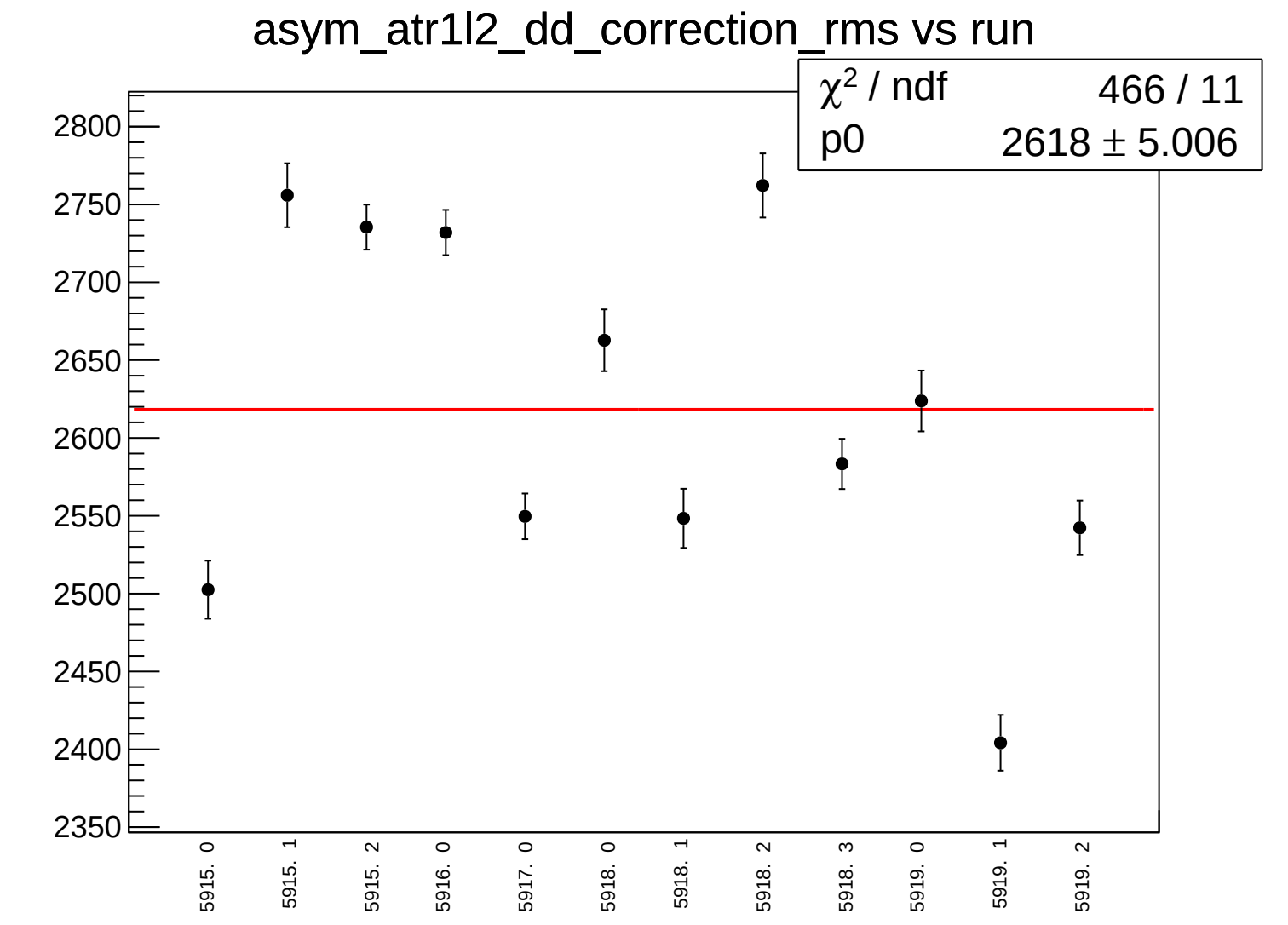

asym_atr1l2_avg_rms vs run
χ² / ndf 82.16 / 11
p0 3283 ± 6.272
3400
3350
3300
3250
3200
3150
3100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

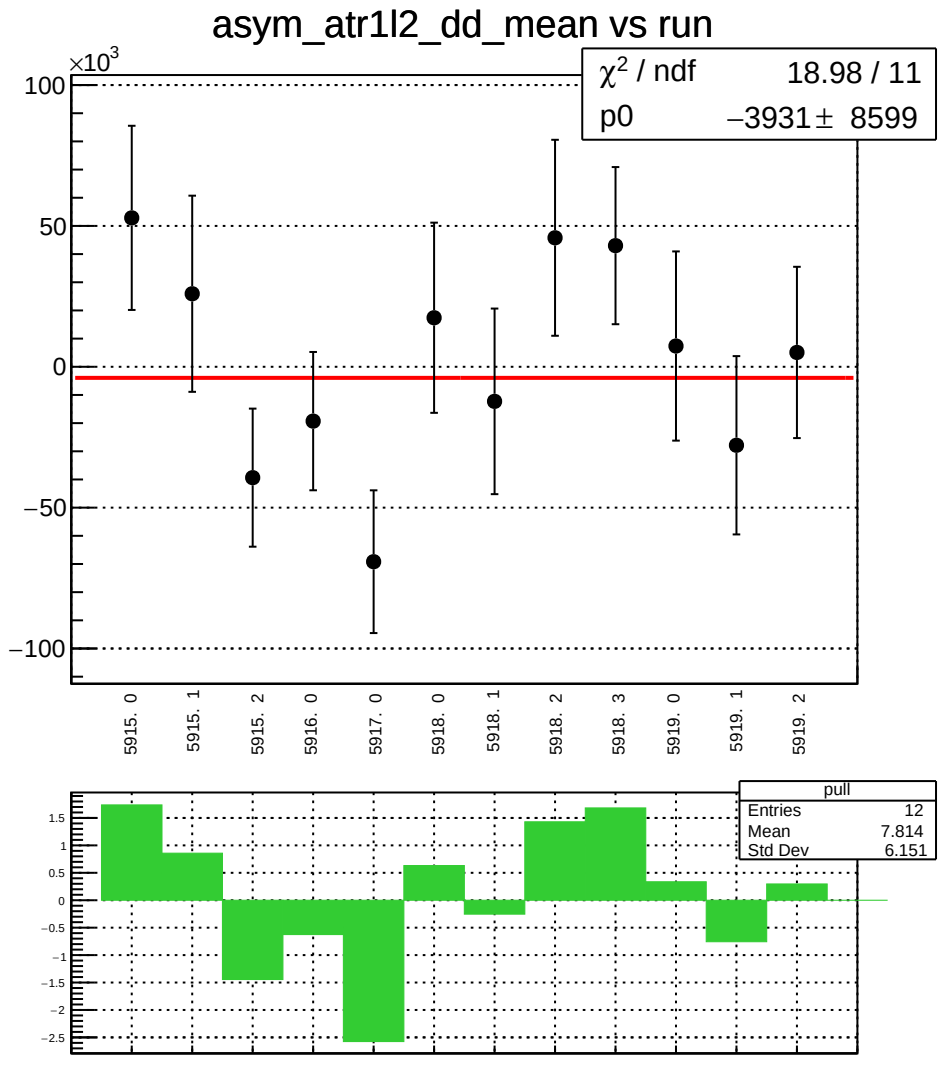

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 15 / 11
p0 3451 ± 4869
60000
40000
20000
0
−20000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −11.01
Std Dev 15.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.07026
Std Dev 1.116
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

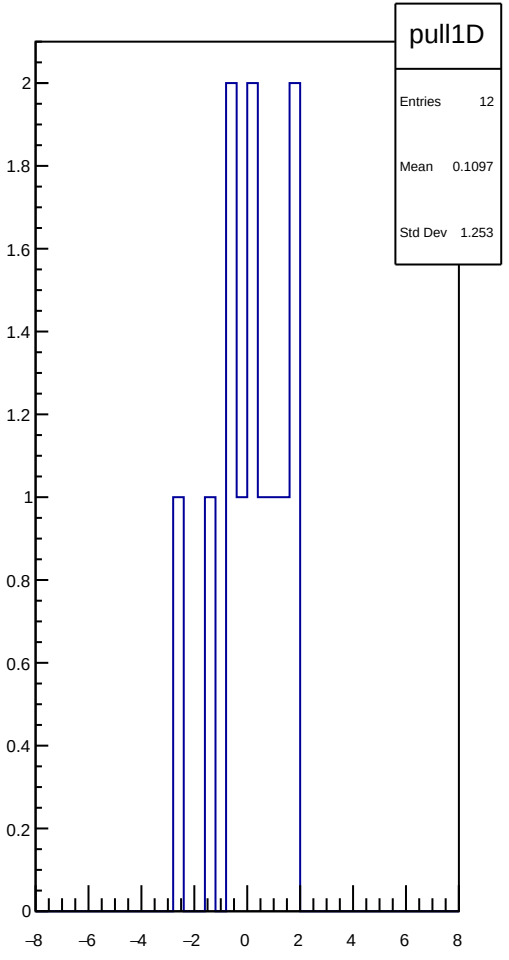

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 14.86 / 11
p0 1802 ± 3.443
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

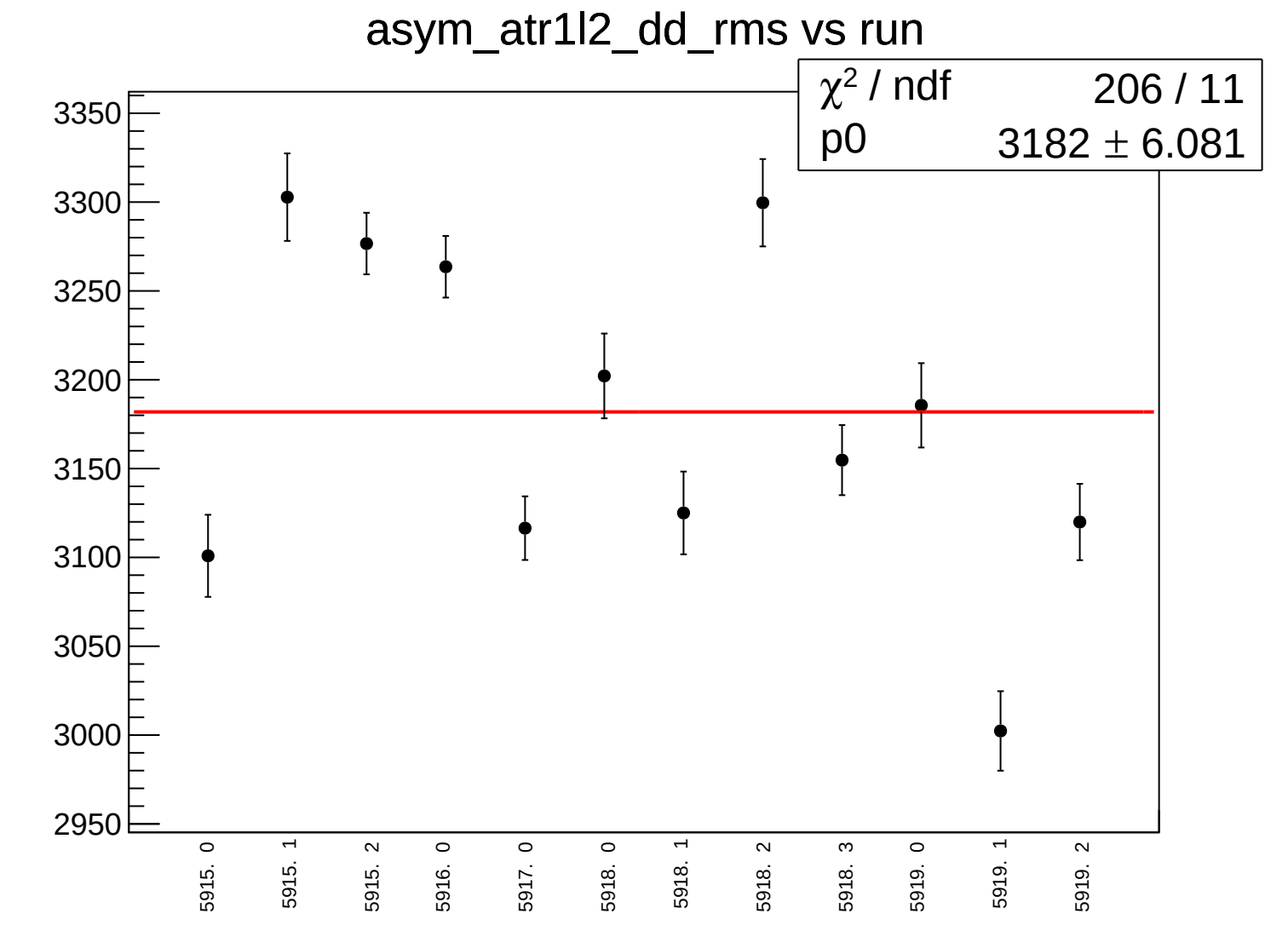

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 18.33 / 11
p0 7260 ± 7079
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.48
Std Dev 12.31
2
1
0
−1
−2
−3

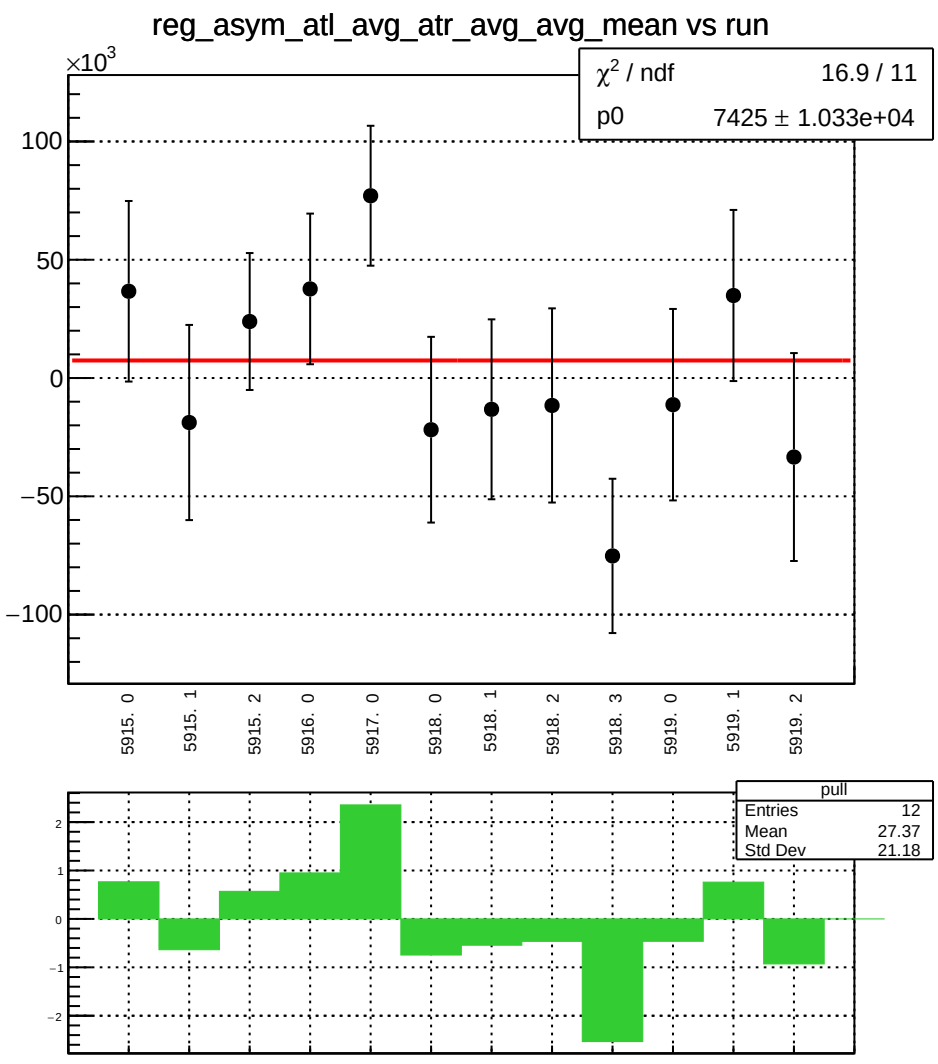

pull1D
Entries 12
Mean −0.08148
Std Dev 1.233
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

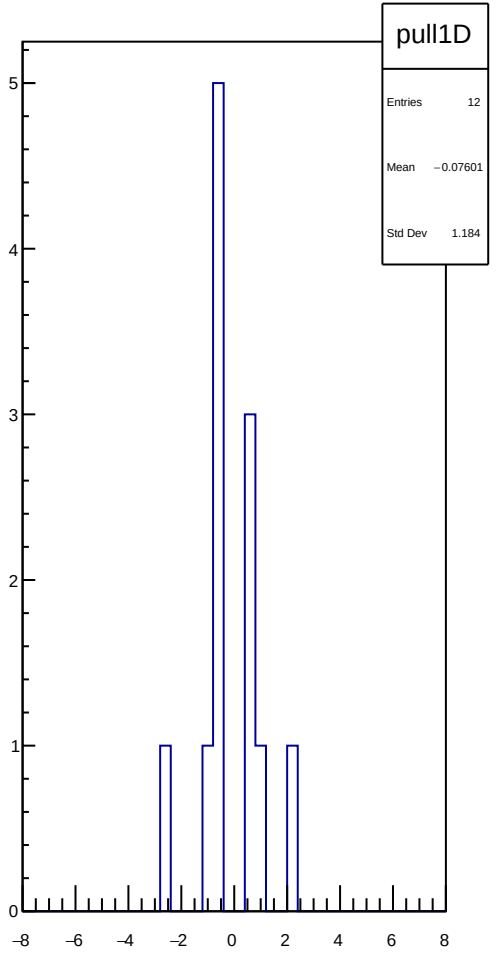

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 466 / 11
p0 2618 ± 5.006
2800
2750
2700
2650
2600
2550
2500
2450
2400
2350
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

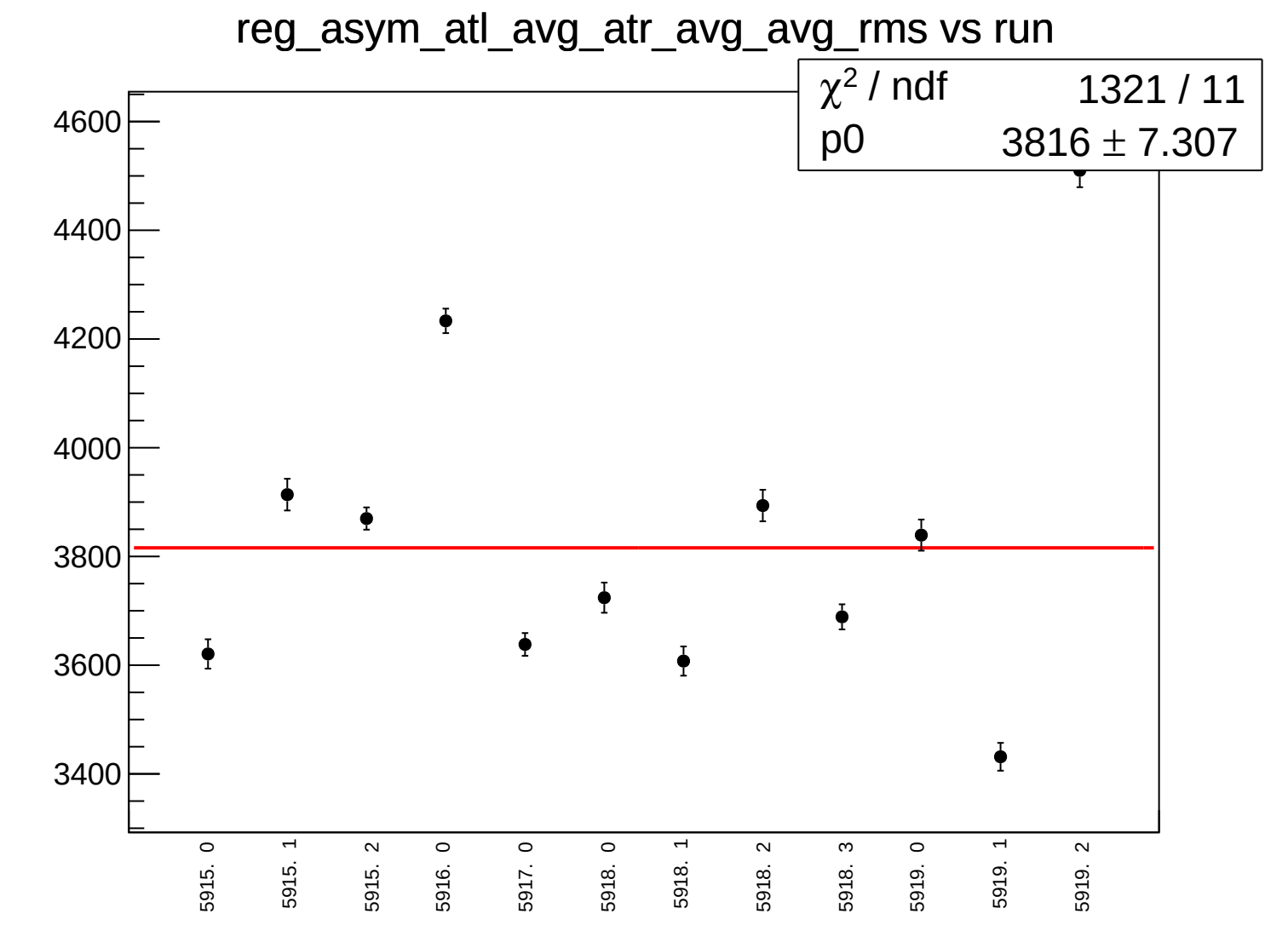

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 18.98 / 11
p0 −3931 ± 8599
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.814
Std Dev 6.151
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

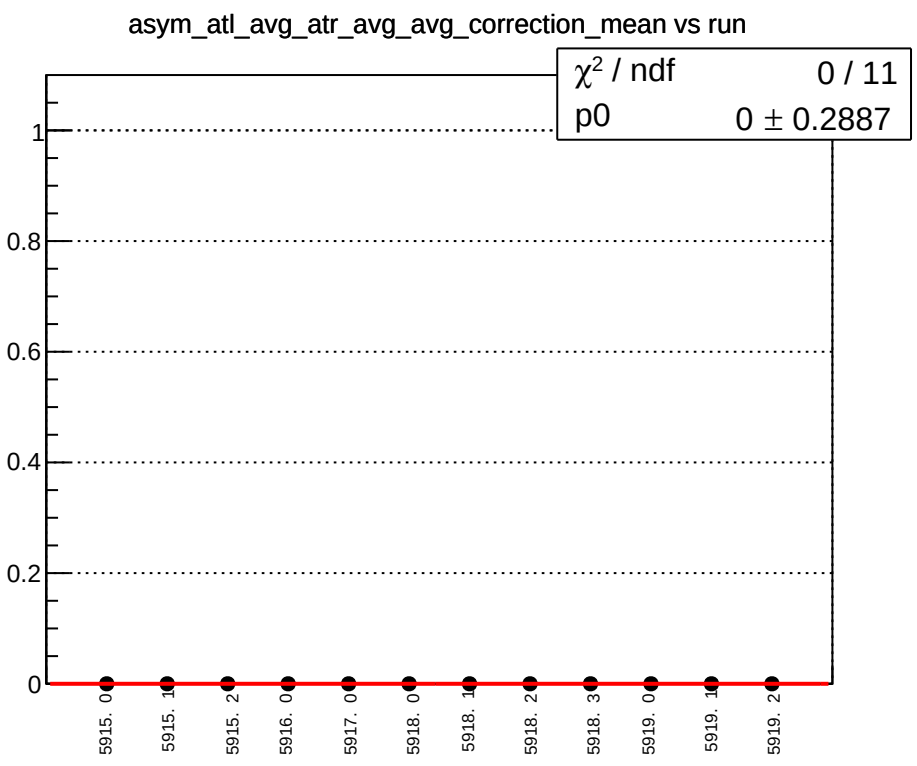

pull1D
Entries 12
Mean 0.1097
Std Dev 1.253
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

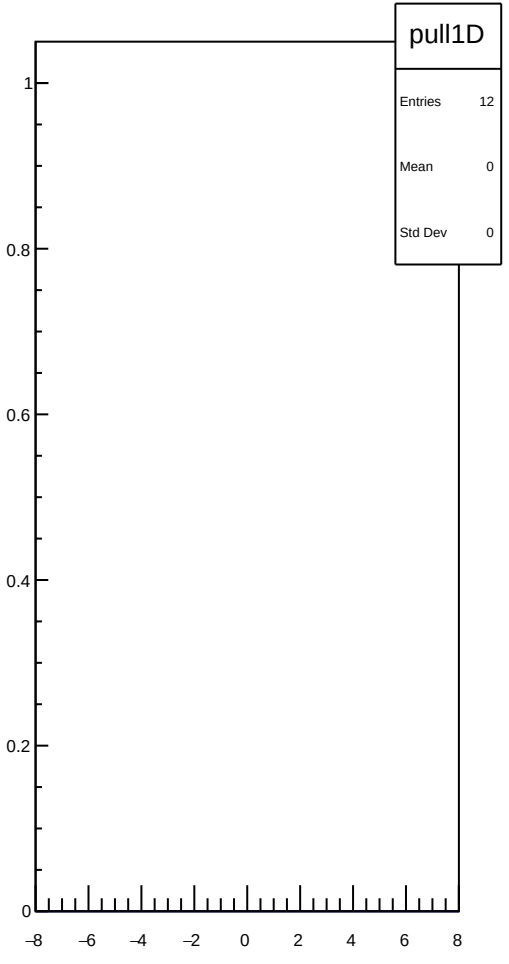

asym_atr1l2_dd_rms vs run
χ² / ndf 206 / 11
p0 3182 ± 6.081
3350
3300
3250
3200
3150
3100
3050
3000
2950
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

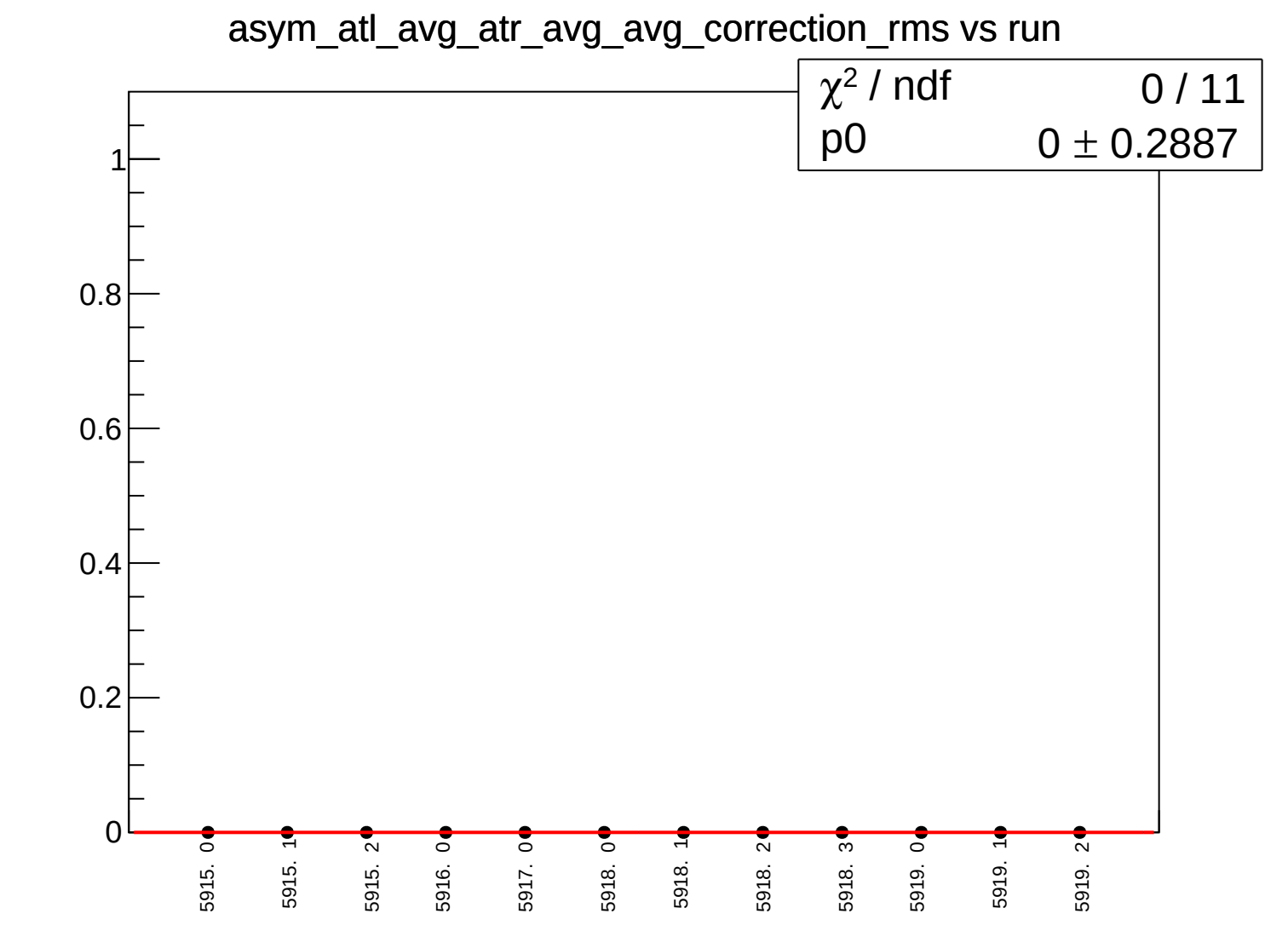

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 16.9 / 11
p0 7425 ± 1.033e+04
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.37
Std Dev 21.18
2
1
0
−1
−2

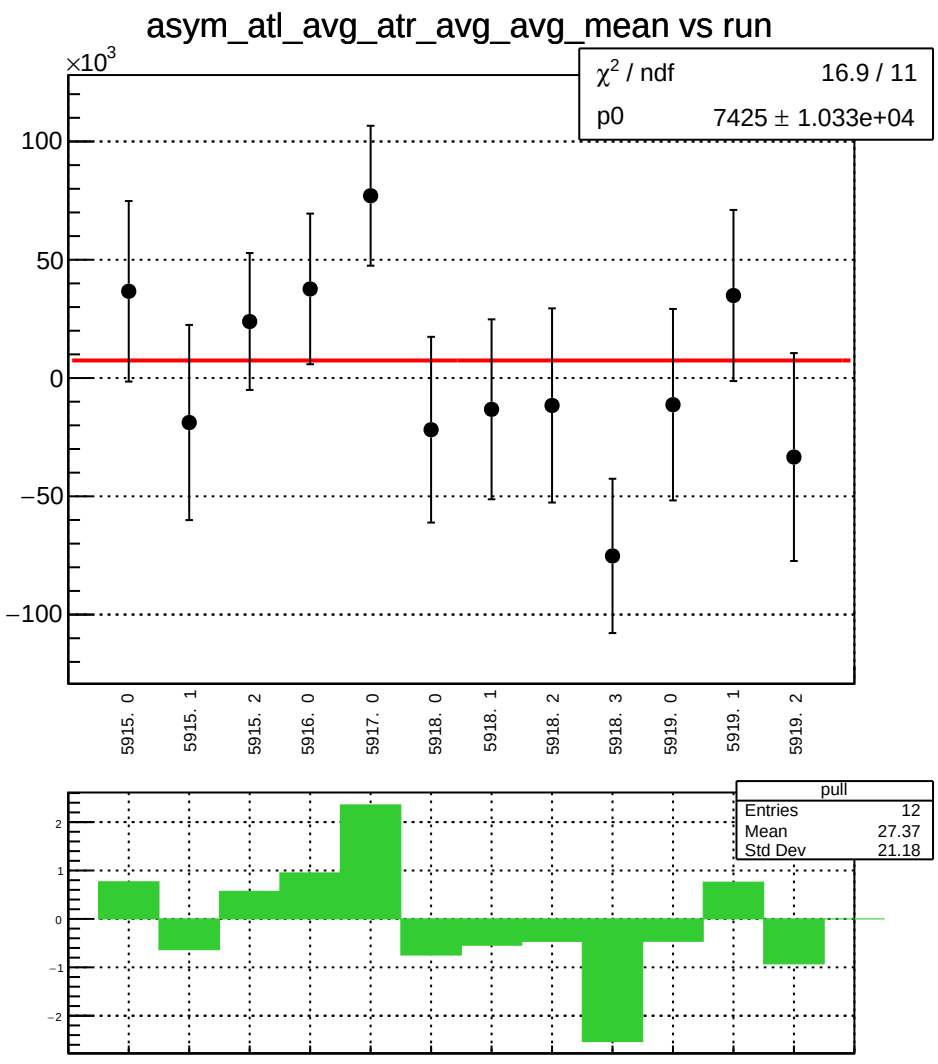

pull1D
Entries 12
Mean −0.07601
Std Dev 1.184
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

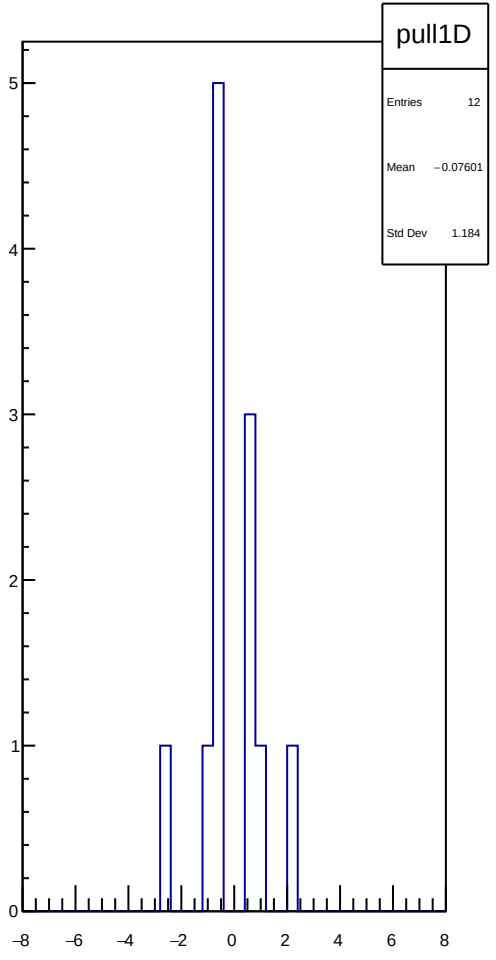

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1321 / 11
p0 3816 ± 7.307
4600
4400
4200
4000
3800
3600
3400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

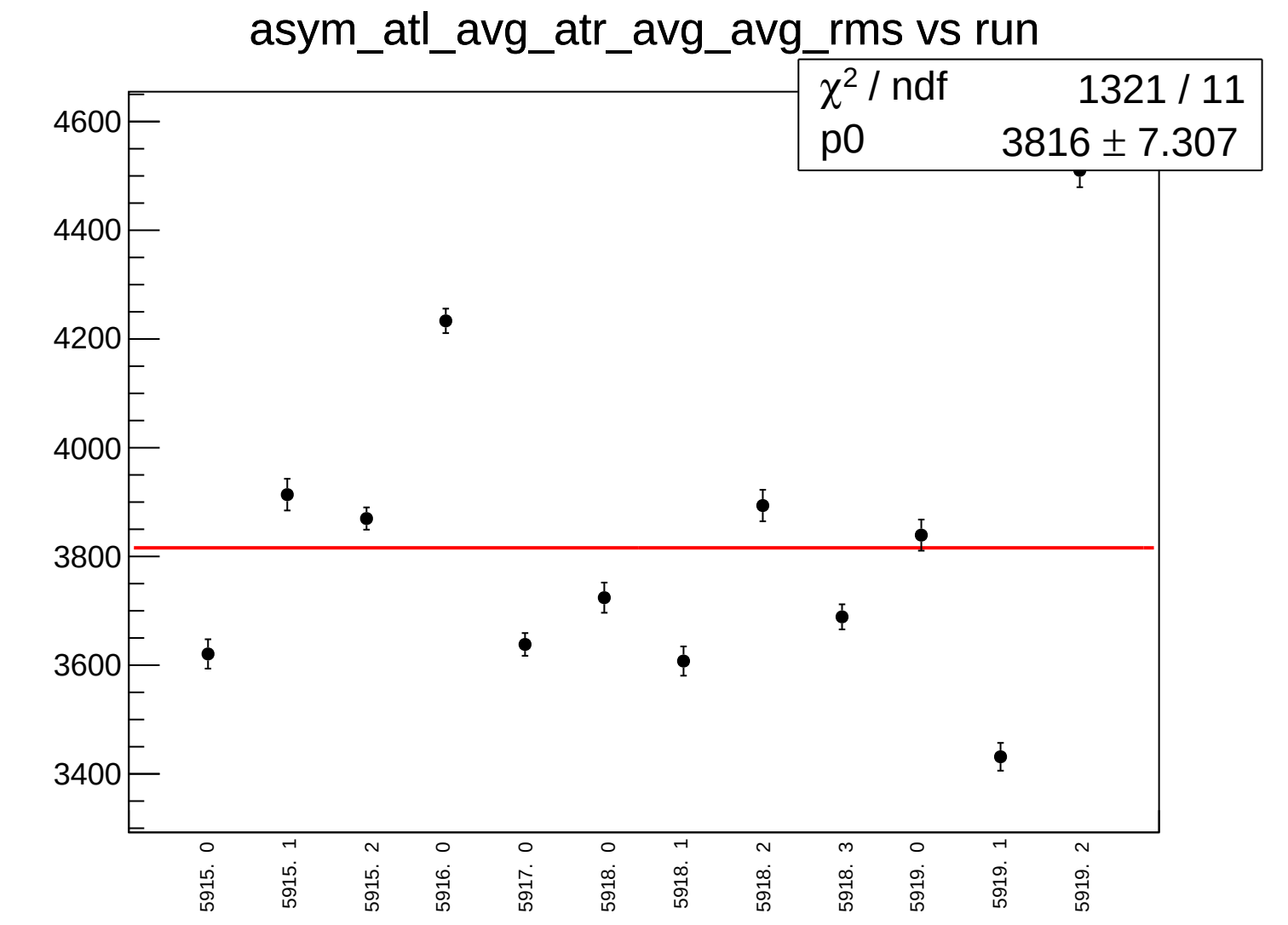

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 11
p0 0 ± 0.2887
1
0.8
0.6
0.4
0.2
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

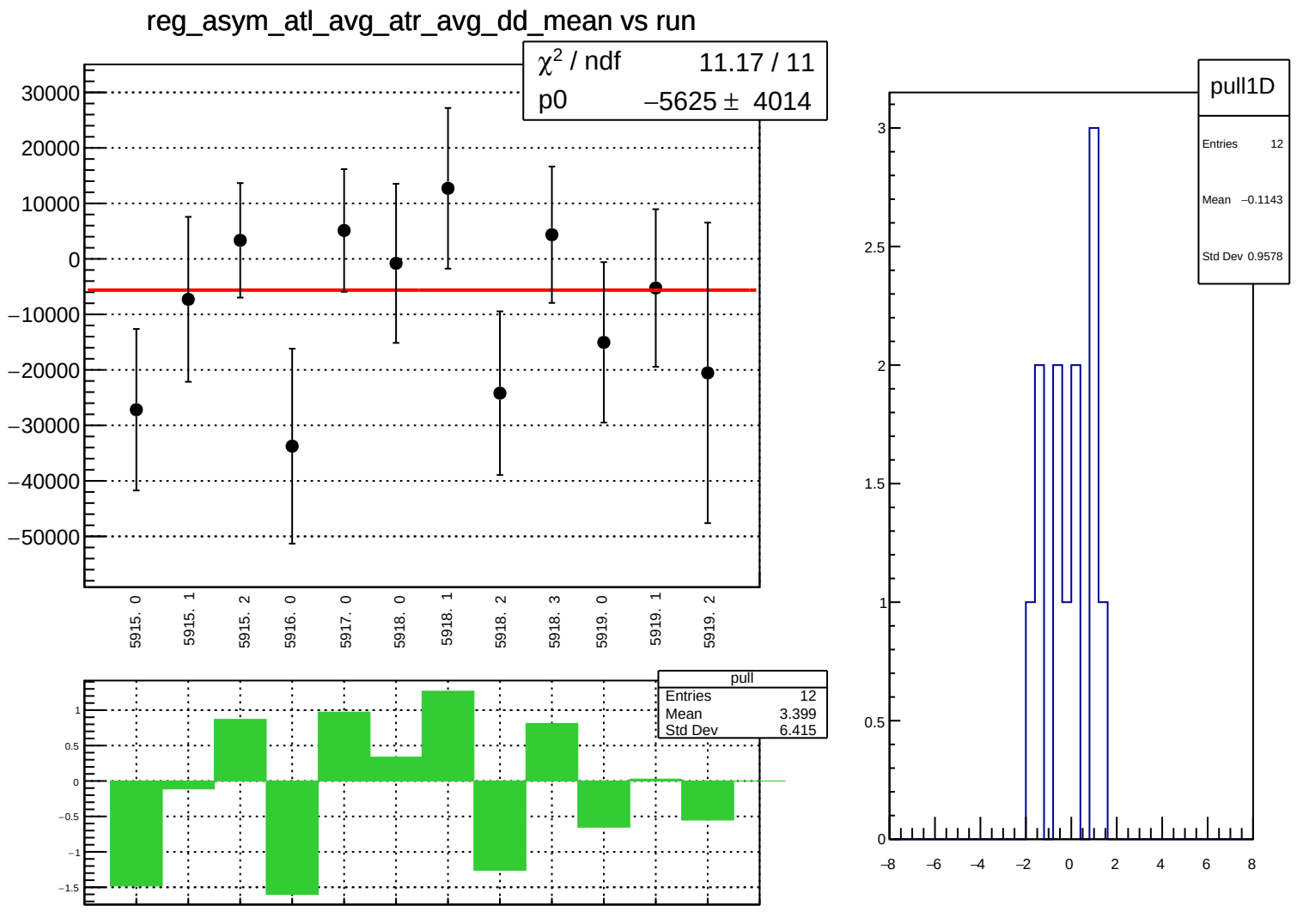

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

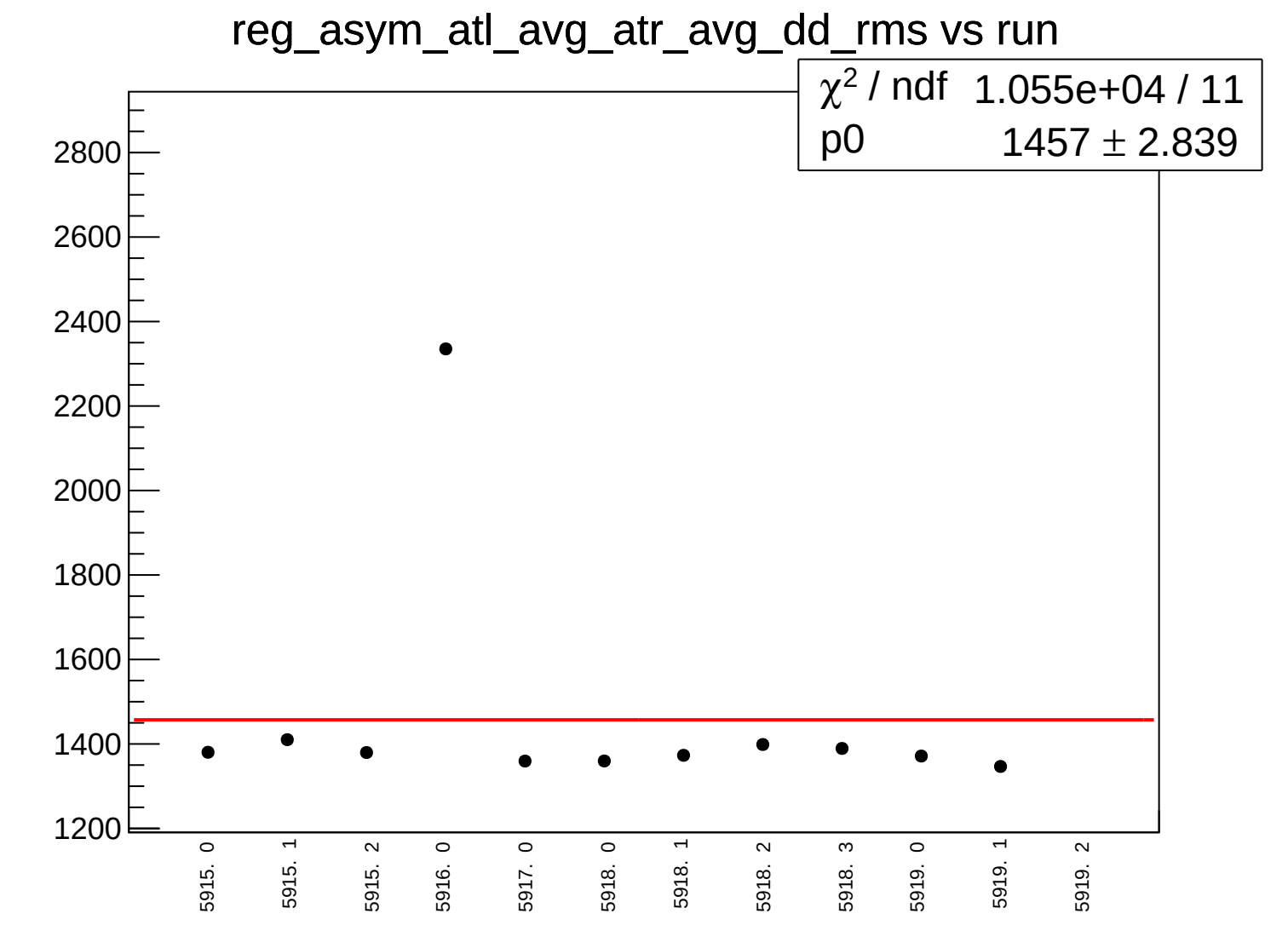

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 11
p0 0 ± 0.2887
1
0.8
0.6
0.4
0.2
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

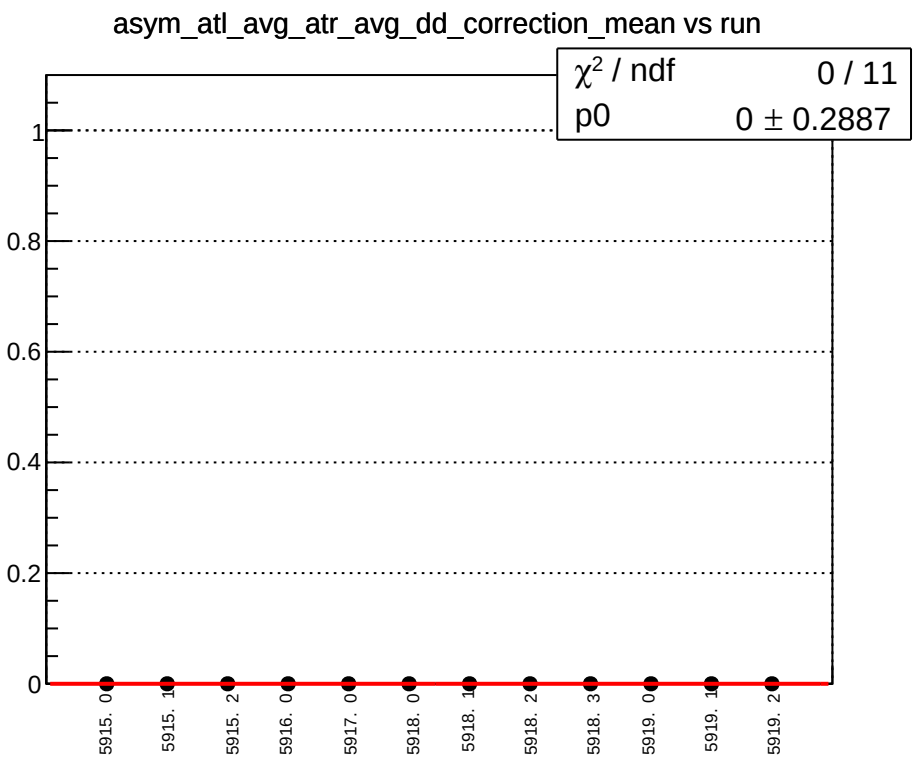

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 16.9 / 11
p0 7425 ± 1.033e+04
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.37
Std Dev 21.18
2
1
0
−1
−2

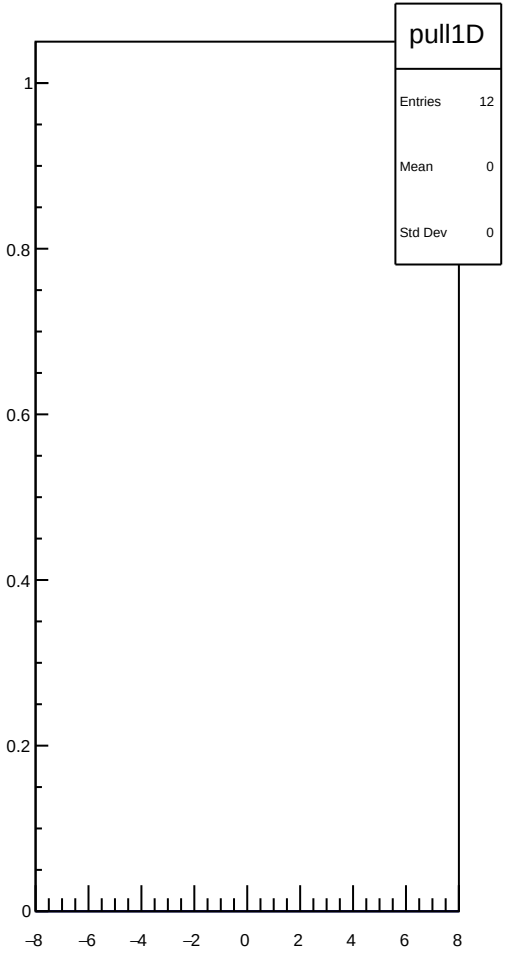

pull1D
Entries 12
Mean −0.07601
Std Dev 1.184
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

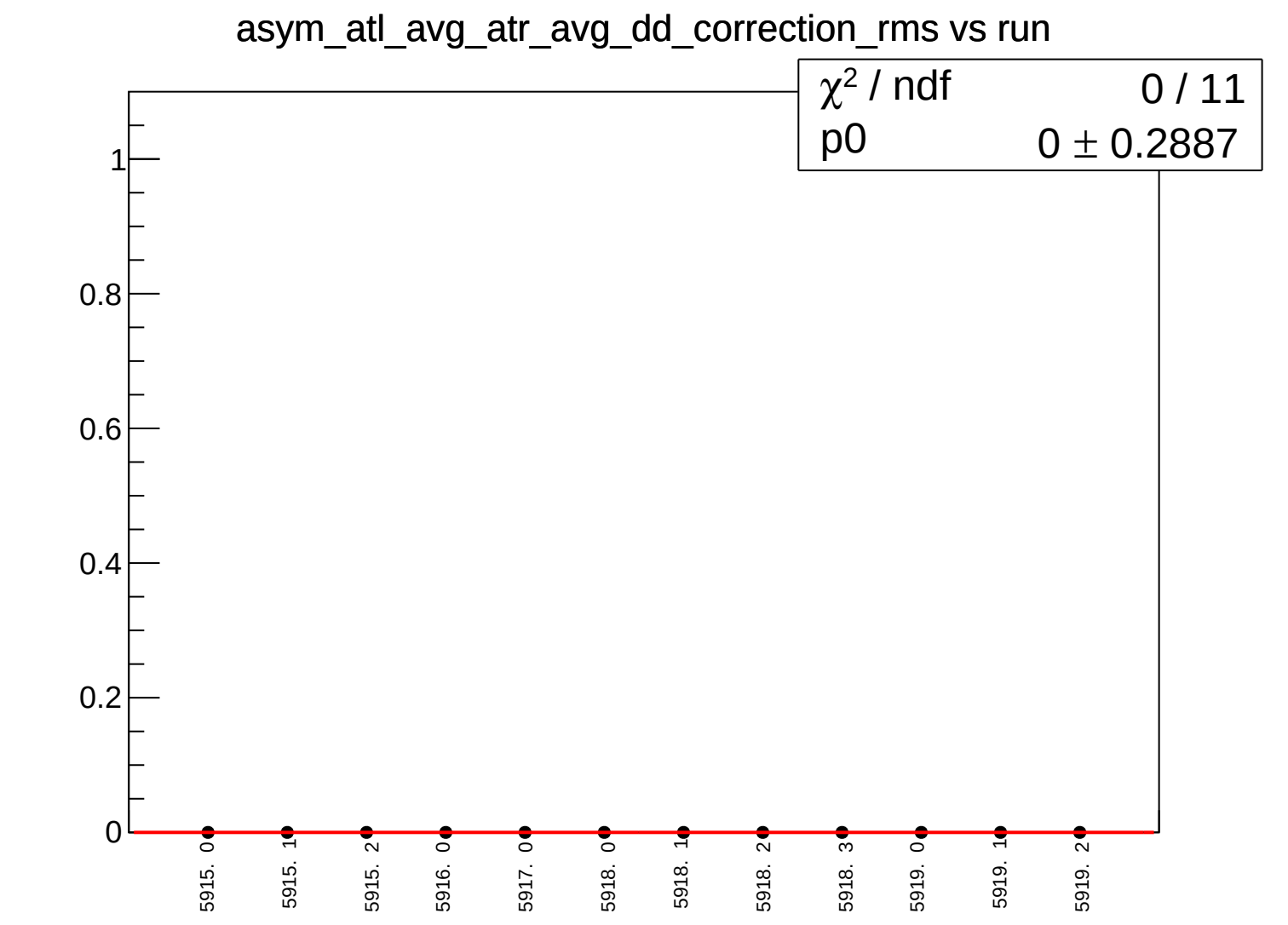

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1321 / 11
p0 3816 ± 7.307
4600
4400
4200
4000
3800
3600
3400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

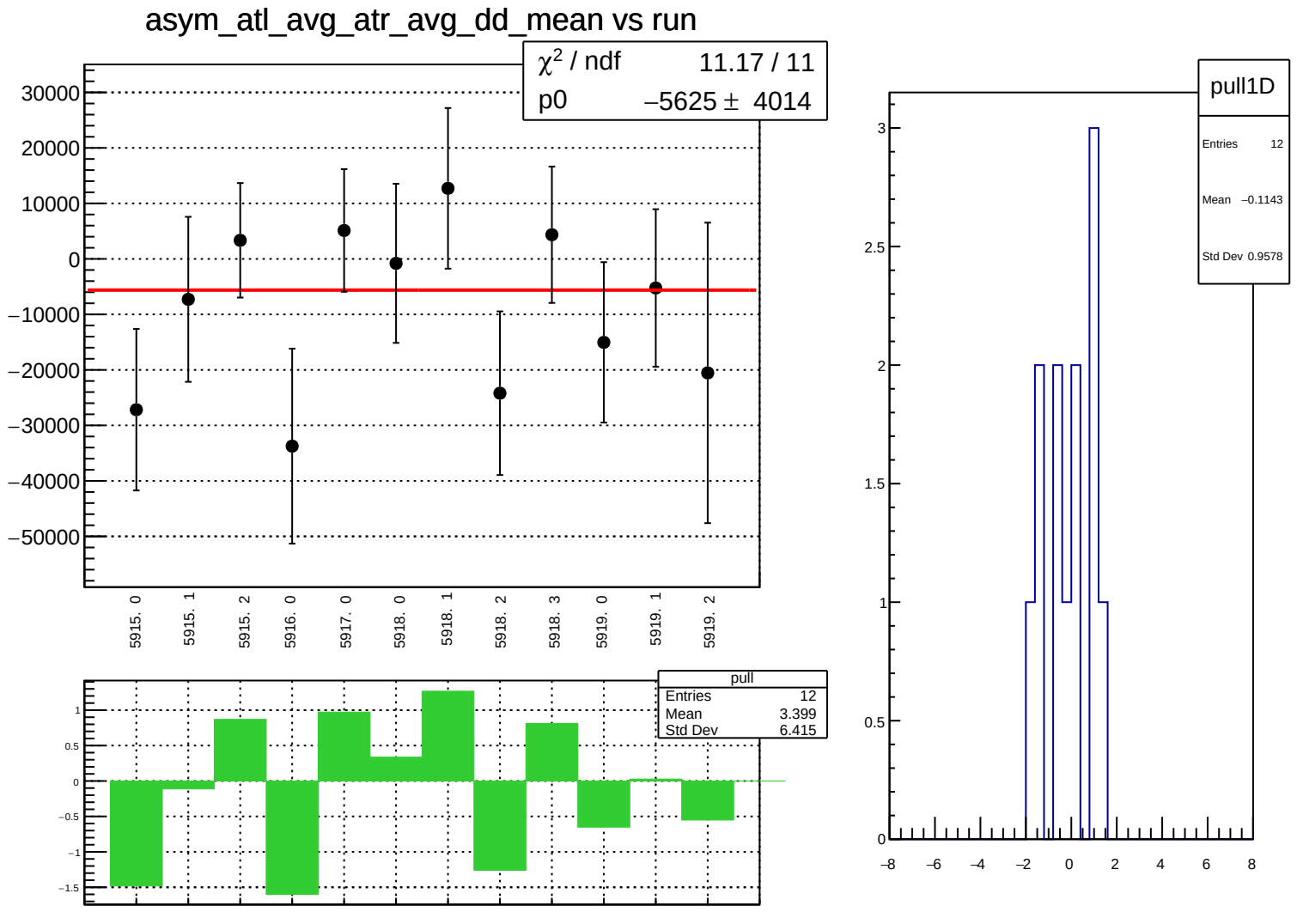

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 11.17 / 11
p0 −5625 ± 4014
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.399
Std Dev 6.415
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.1143
Std Dev 0.9578
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

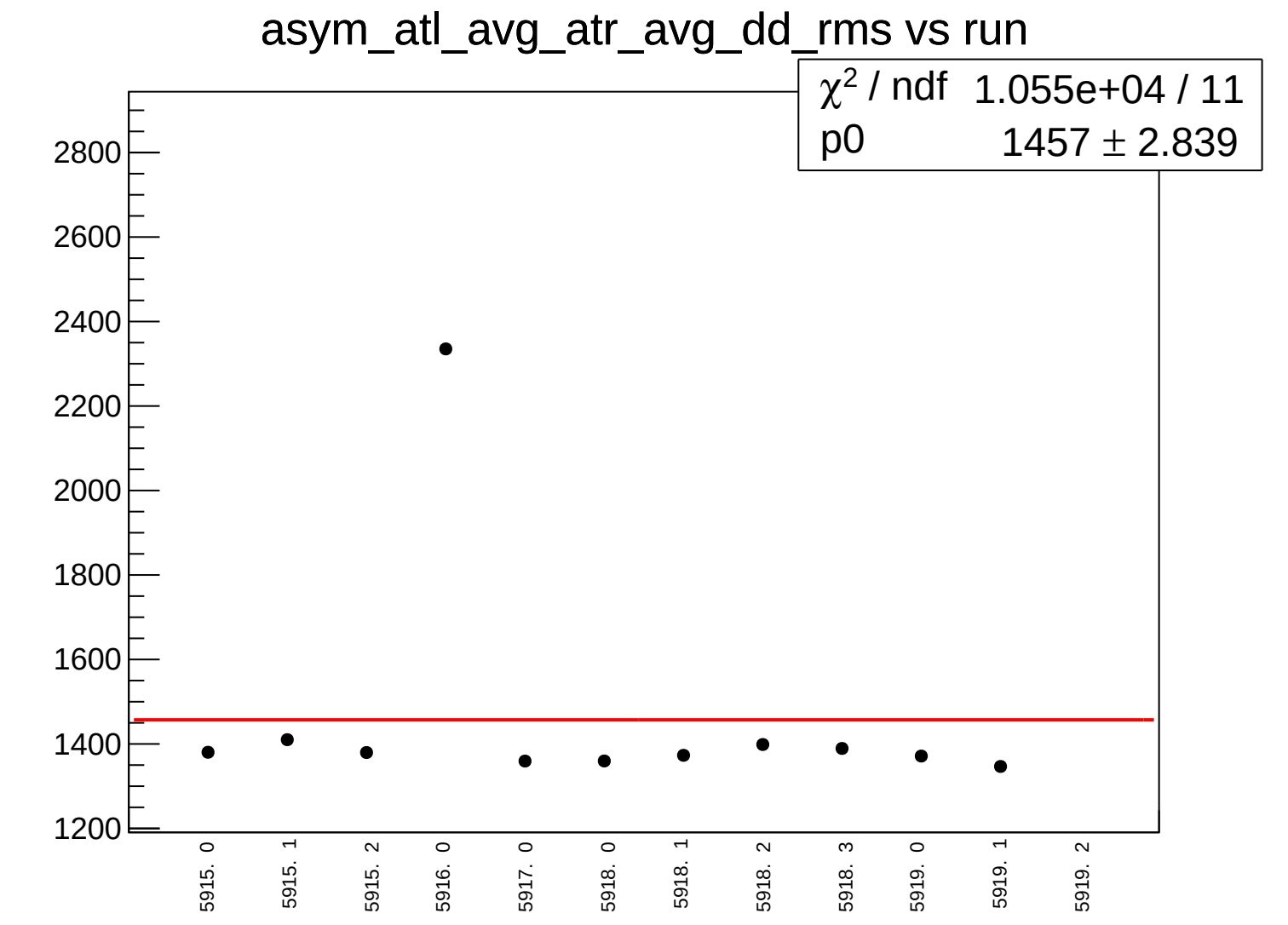

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.055e+04 / 11
p0 1457 ± 2.839
2800
2600
2400
2200
2000
1800
1600
1400
1200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

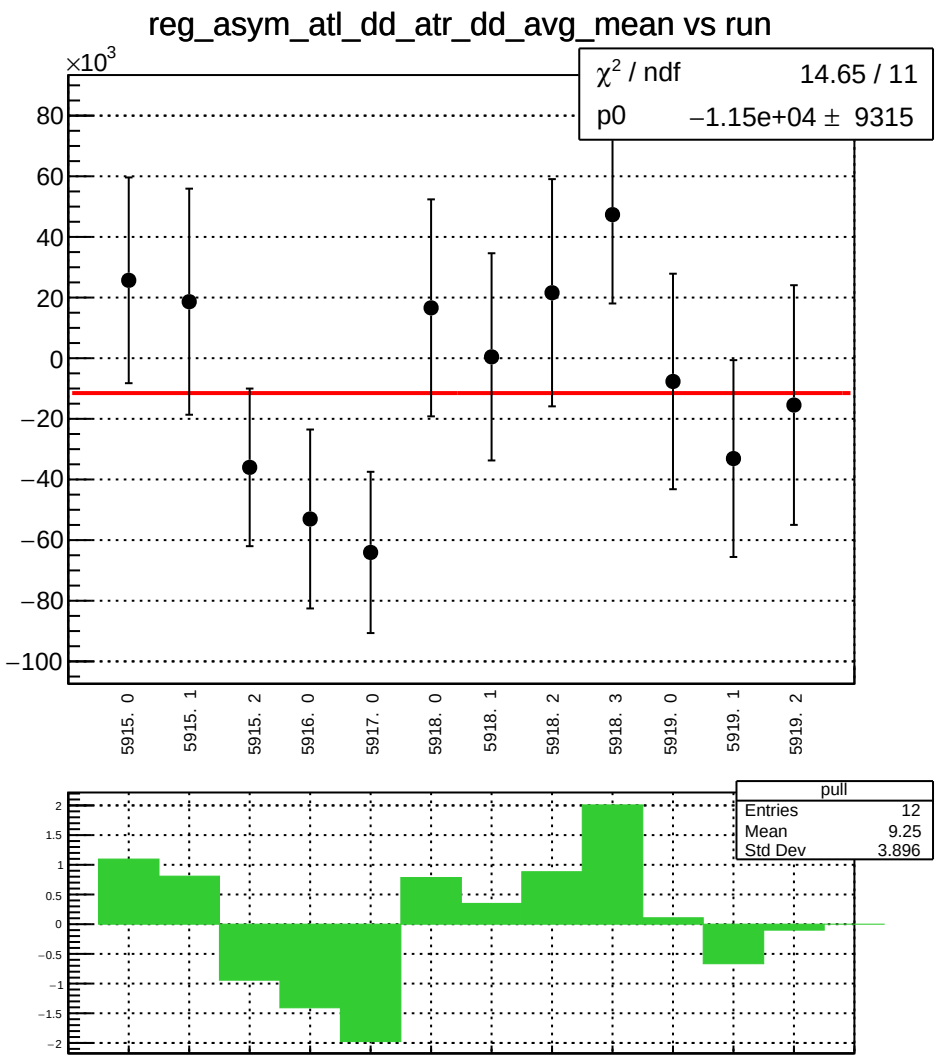

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 11
p0 0 ± 0.2887
1
0.8
0.6
0.4
0.2
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

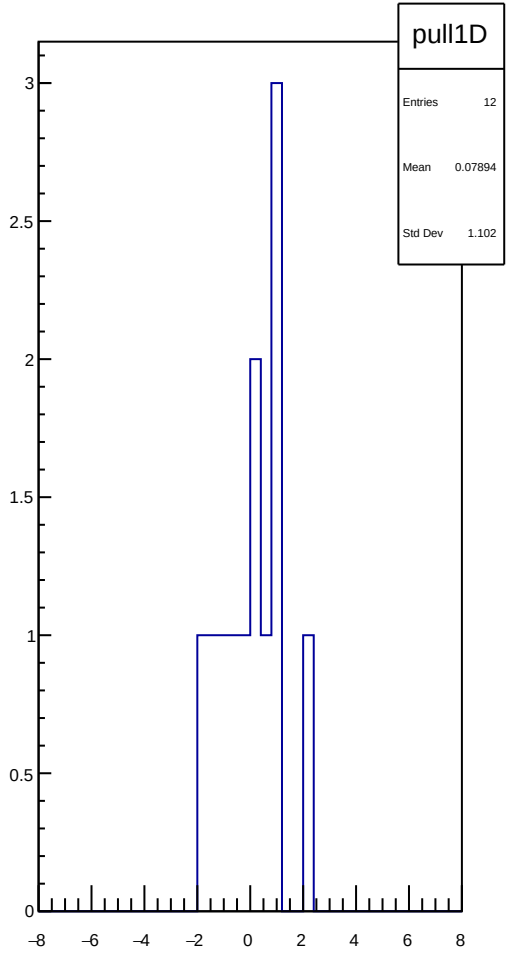

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

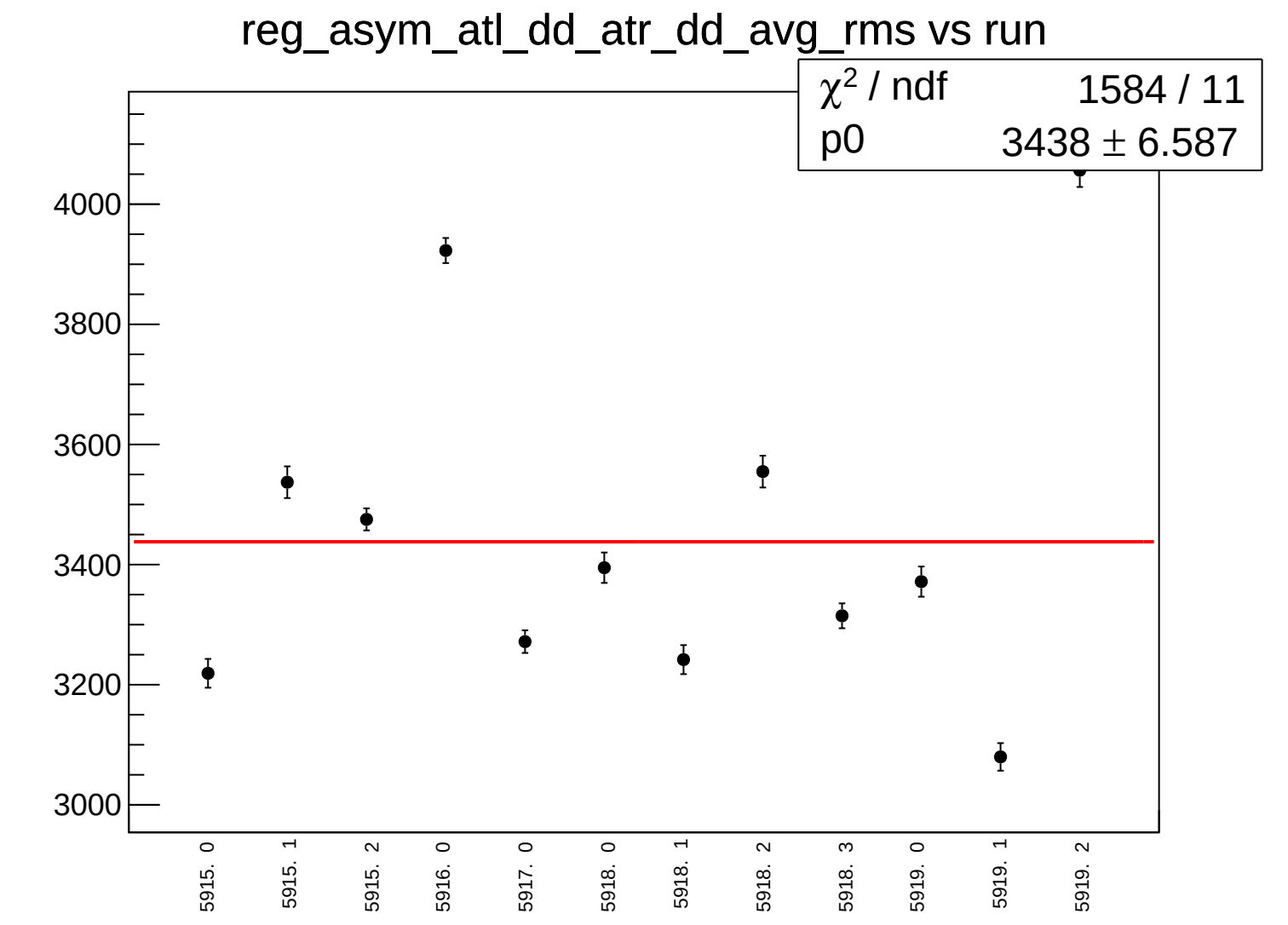

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 11
p0 0 ± 0.2887
1
0.8
0.6
0.4
0.2
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

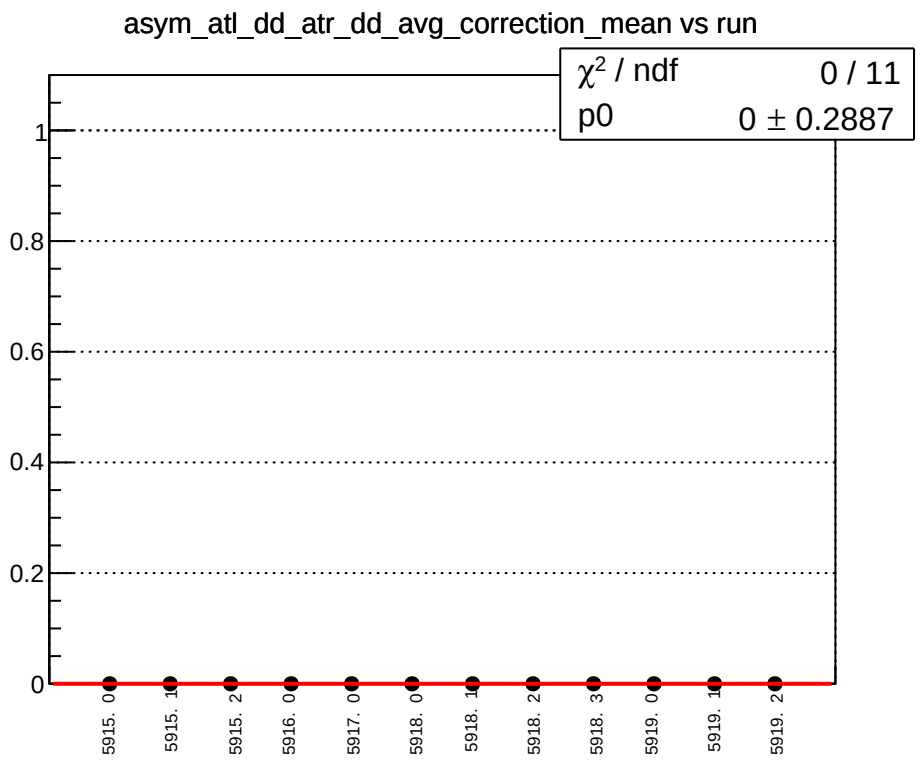

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 11.17 / 11
p0 −5625 ± 4014
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.399
Std Dev 6.415
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.1143
Std Dev 0.9578
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

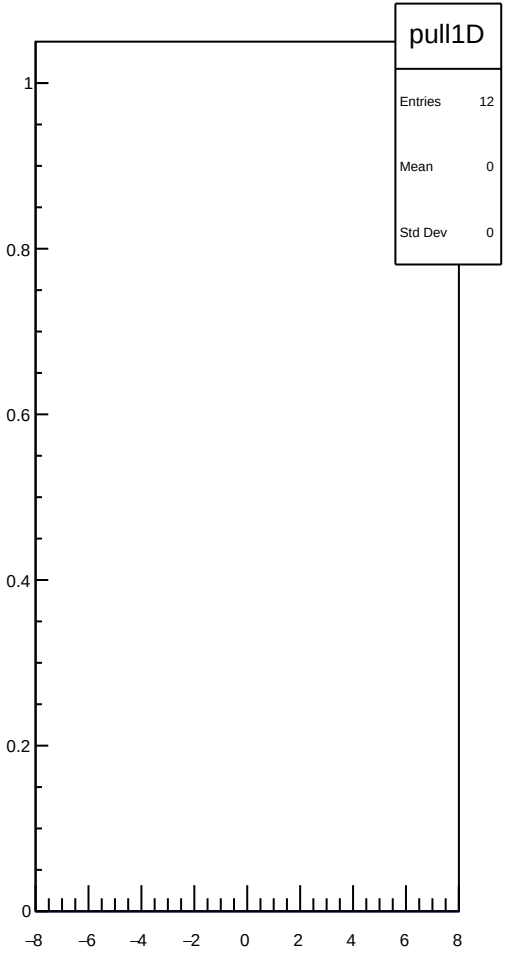

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.055e+04 / 11
p0 1457 ± 2.839
2800
2600
2400
2200
2000
1800
1600
1400
1200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

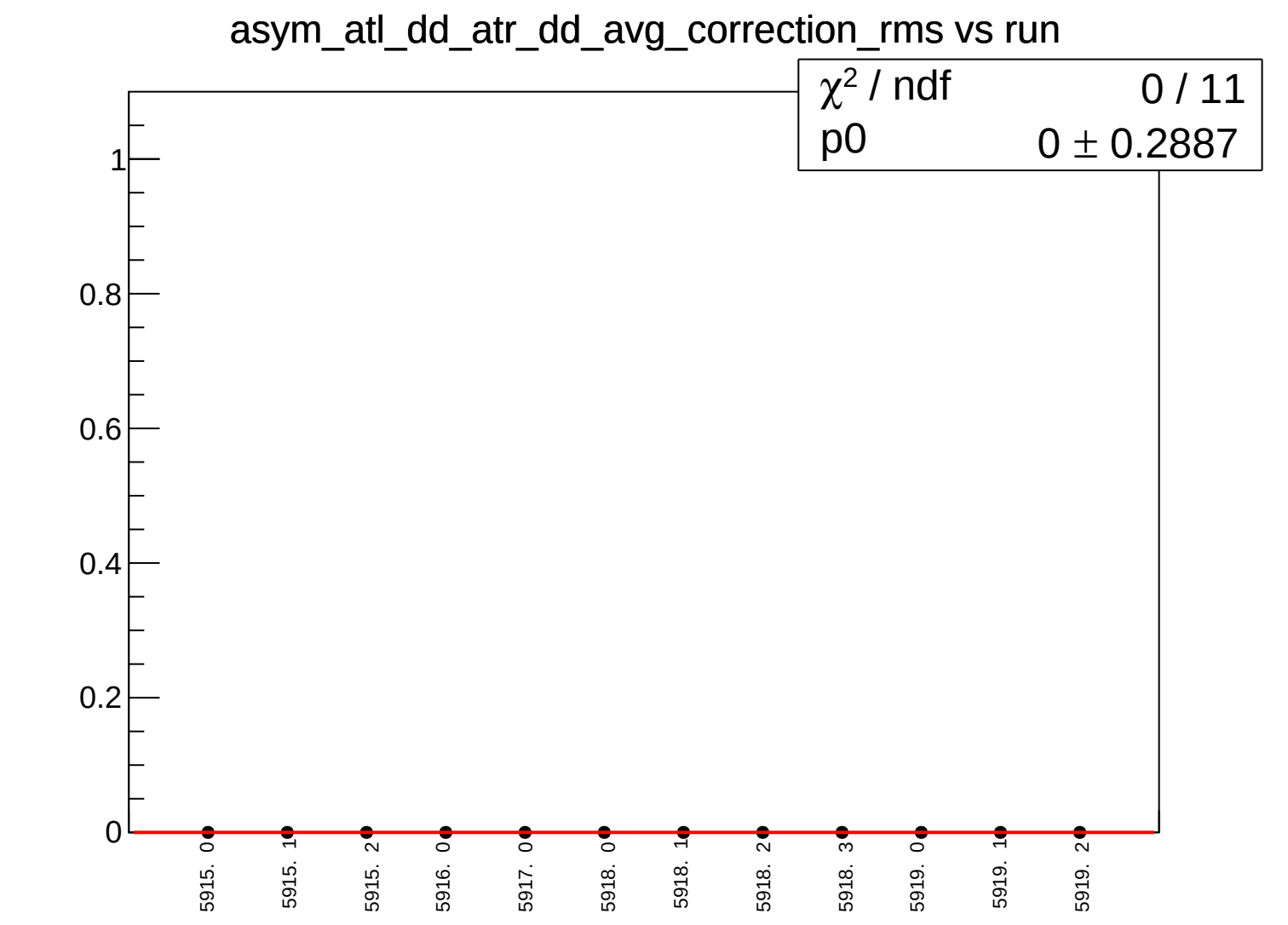

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 14.65 / 11
p0 −1.15e+04 ± 9315
80
60
40
20
0
−20
−40
−60
−80
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 9.25
Std Dev 3.896
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

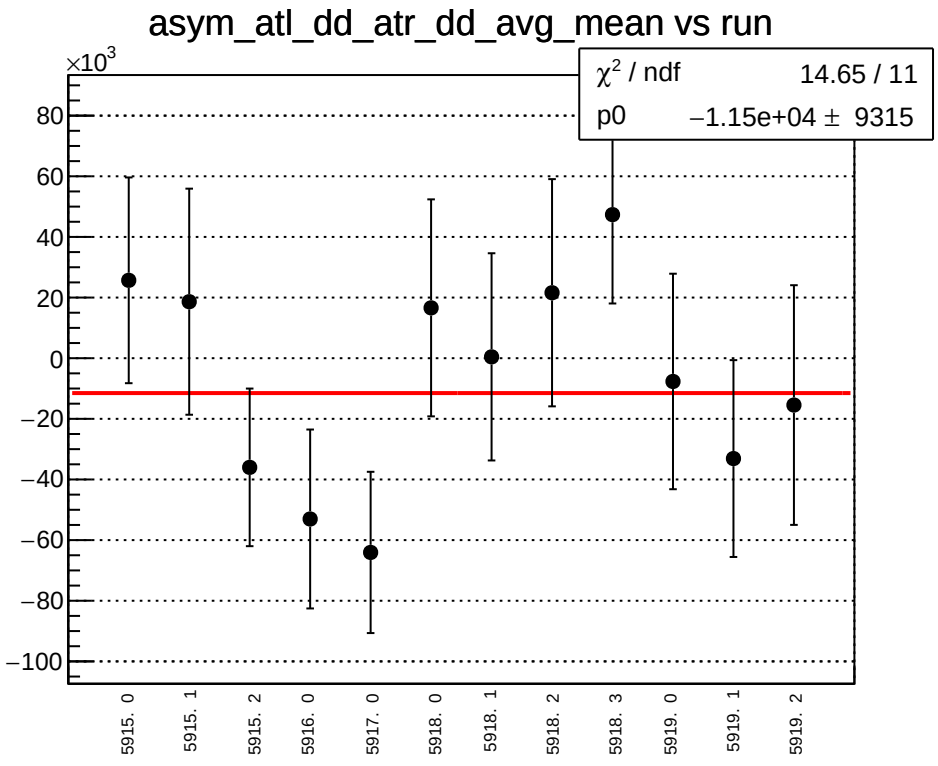

pull1D
Entries 12
Mean 0.07894
Std Dev 1.102
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

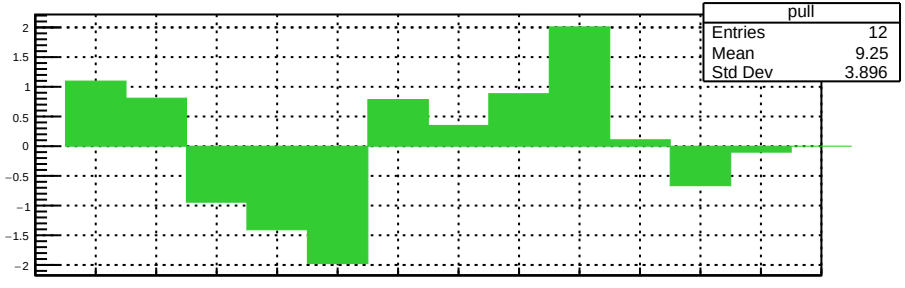

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1584 / 11
p0 3438 ± 6.587
4000
3800
3600
3400
3200
3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

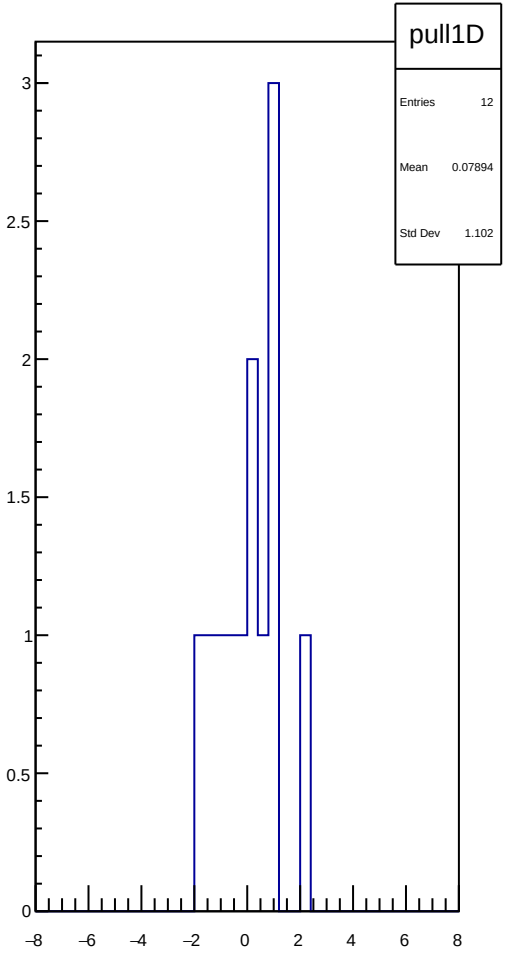

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 11
p0 0 ± 0.2887
1
0.8
0.6
0.4
0.2
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

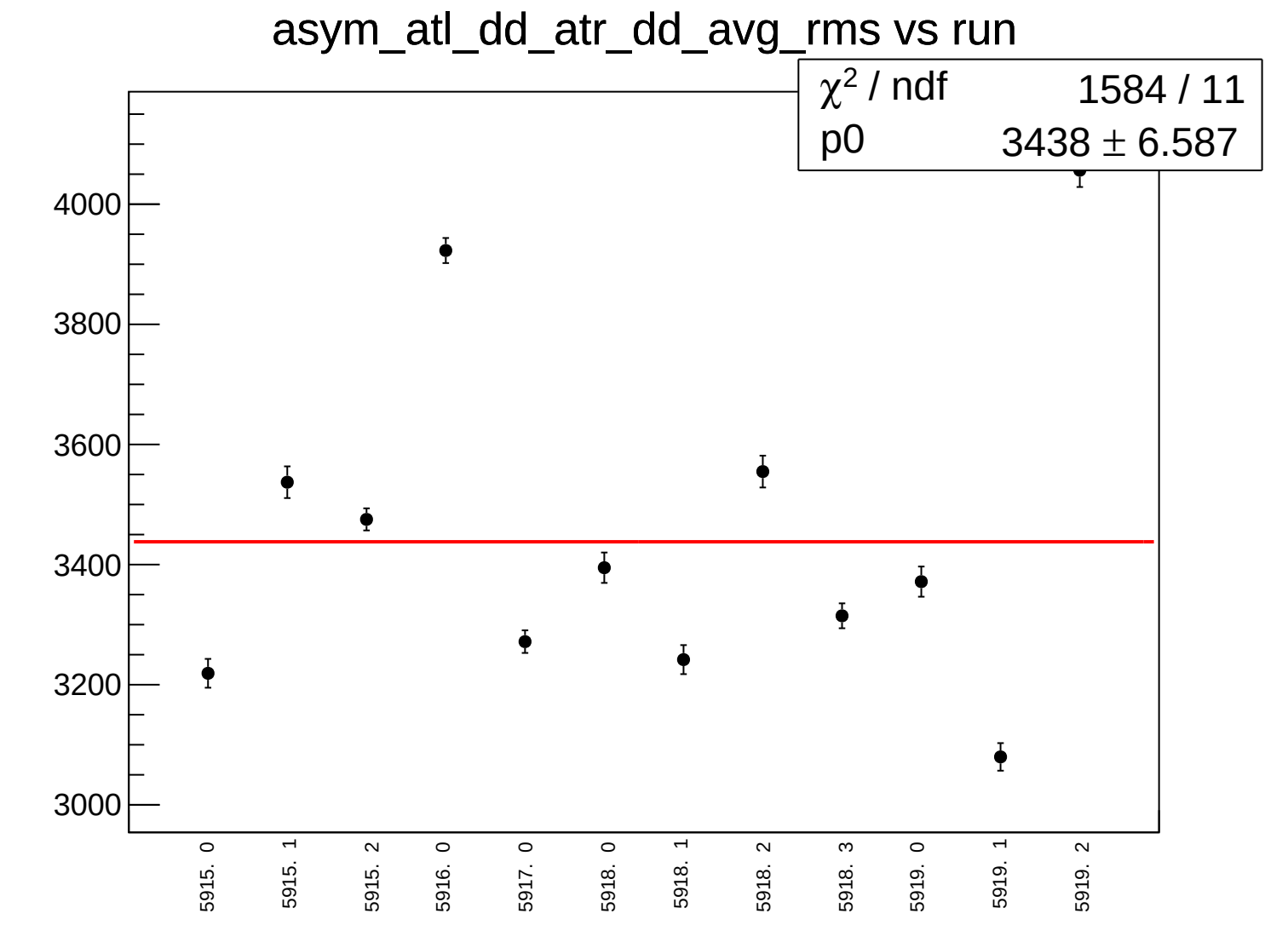

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

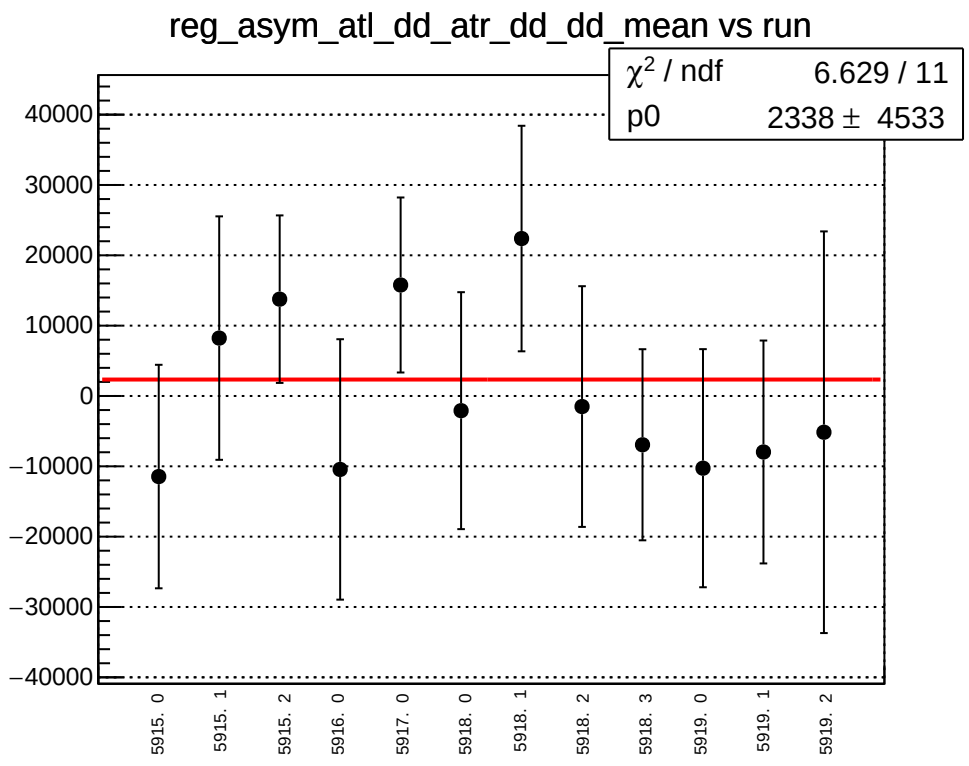

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 11
p0 0 ± 0.2887
1
0.8
0.6
0.4
0.2
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

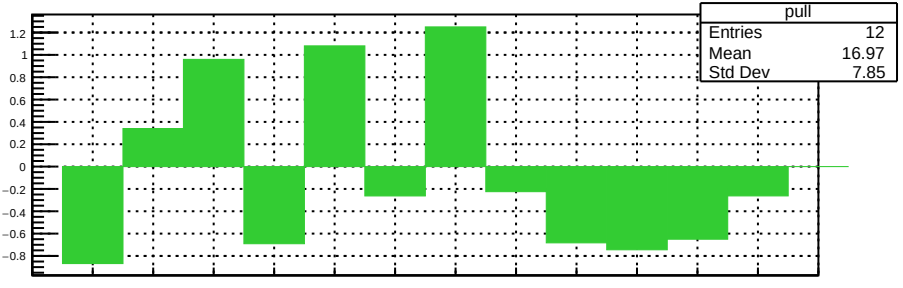

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 14.65 / 11
p0 −1.15e+04 ± 9315
80
60
40
20
0
−20
−40
−60
−80
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

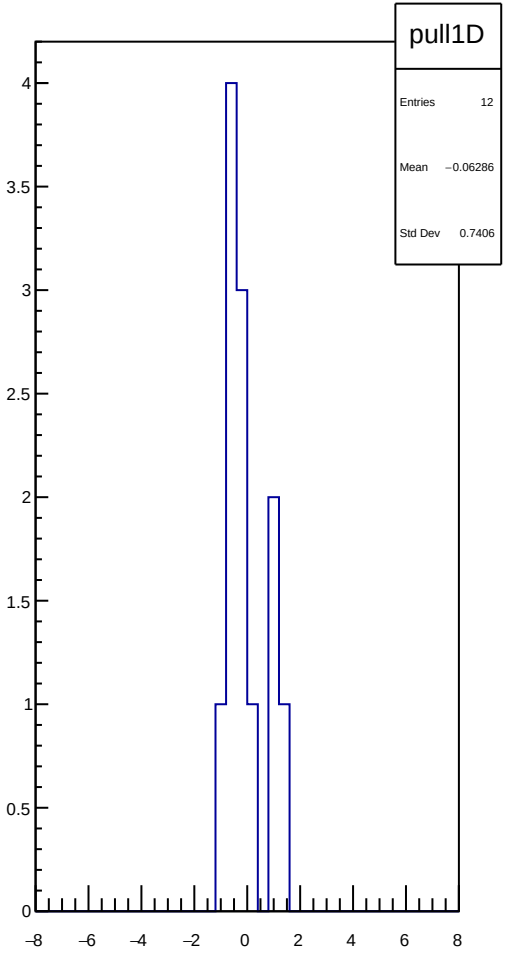

pull
Entries 12
Mean 9.25
Std Dev 3.896
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

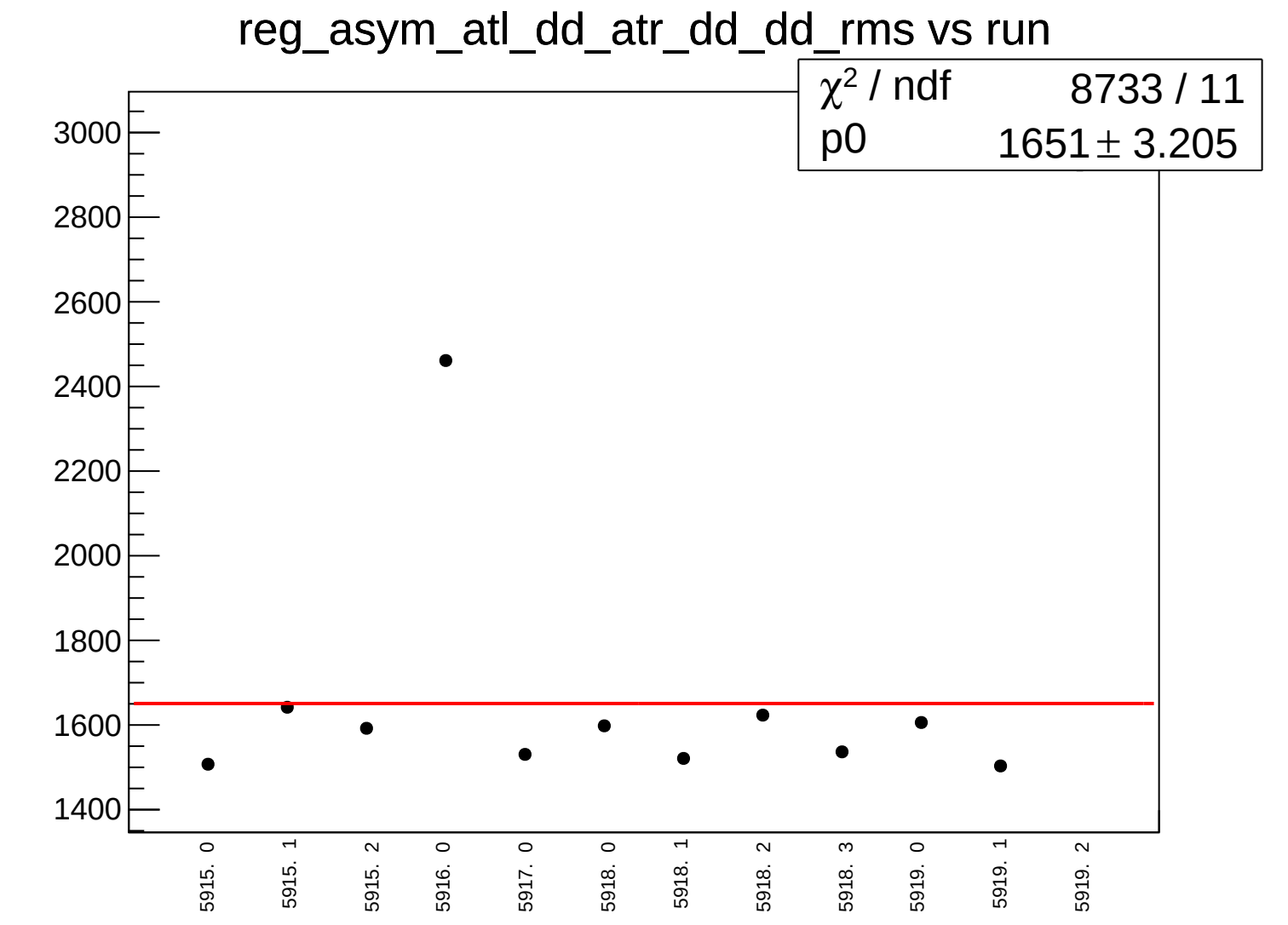

pull1D
Entries 12
Mean 0.07894
Std Dev 1.102
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

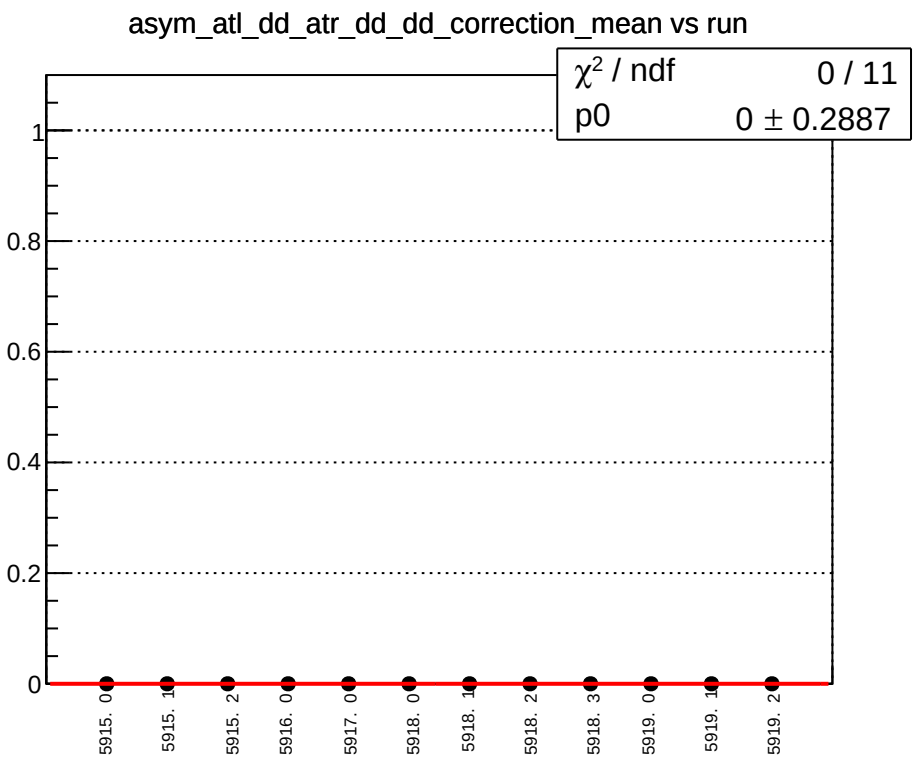

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1584 / 11
p0 3438 ± 6.587
4000
3800
3600
3400
3200
3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

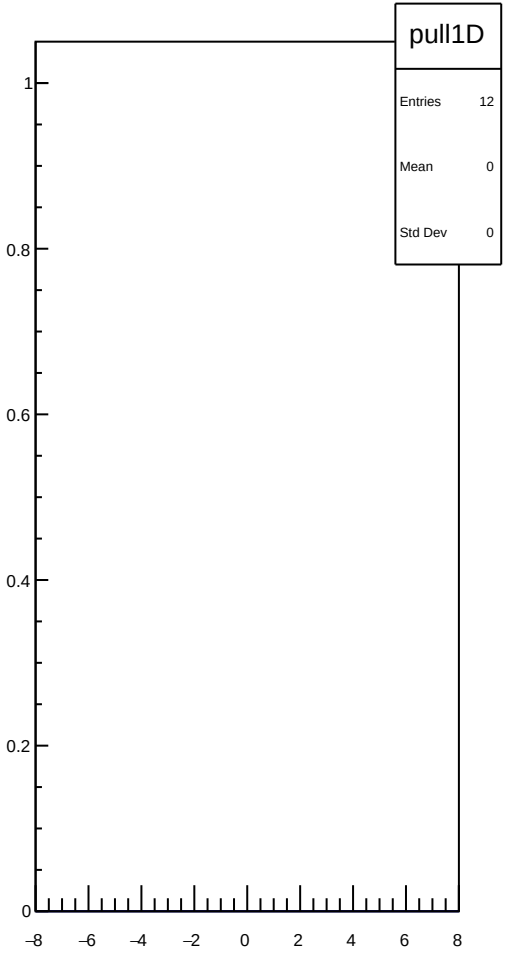

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 6.629 / 11
p0 2338 ± 4533
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

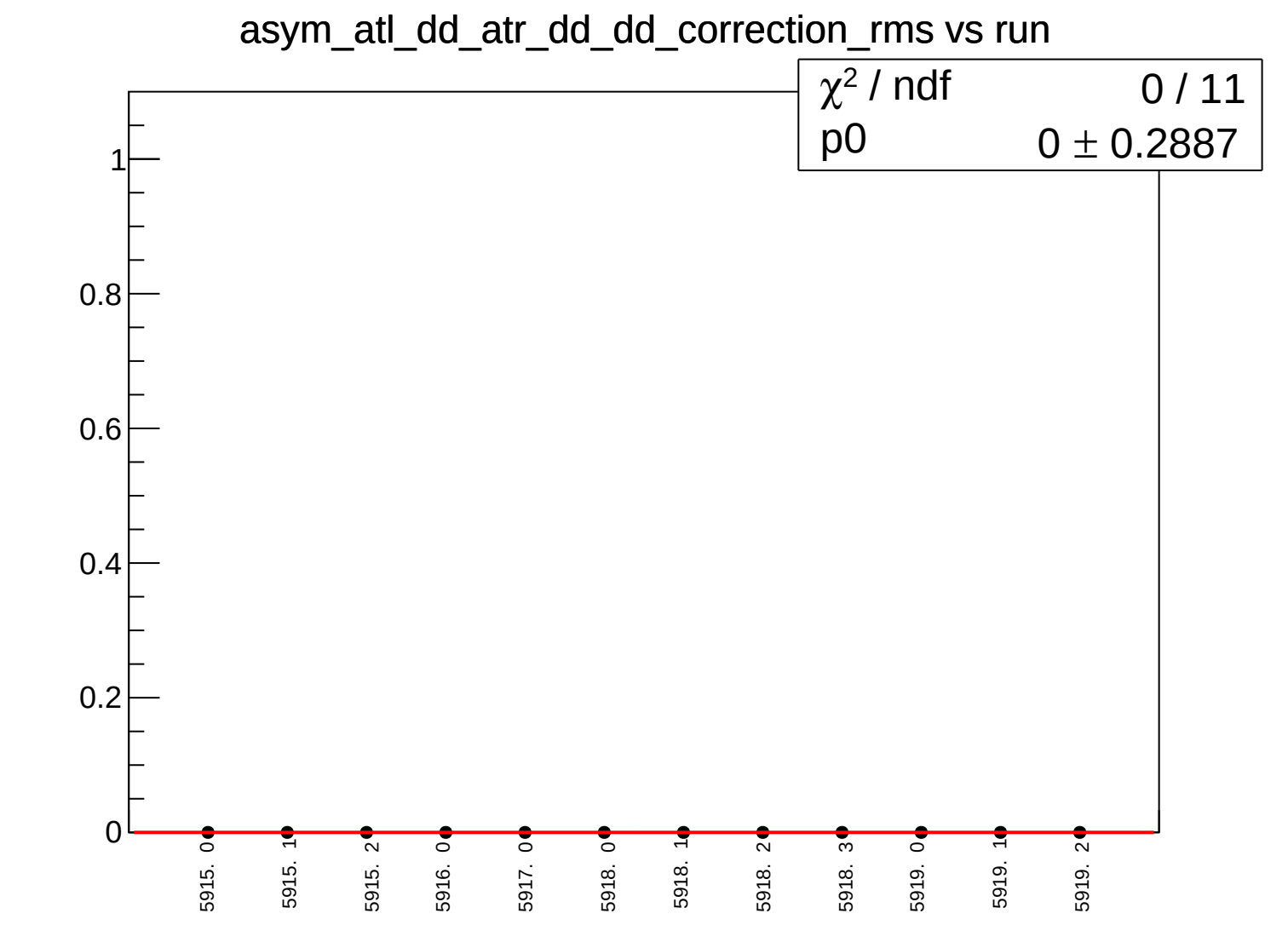

pull
Entries 12
Mean 16.97
Std Dev 7.85
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

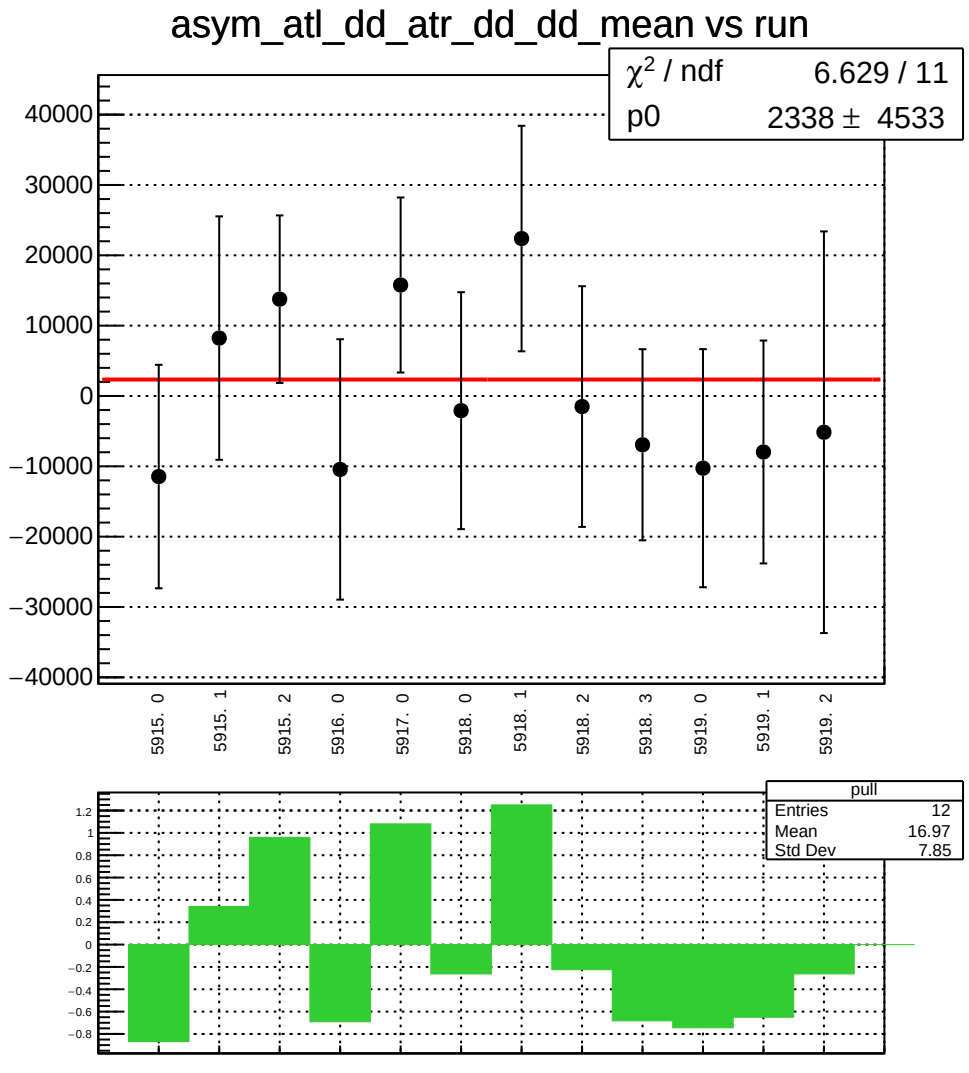

pull1D
Entries 12
Mean −0.06286
Std Dev 0.7406
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

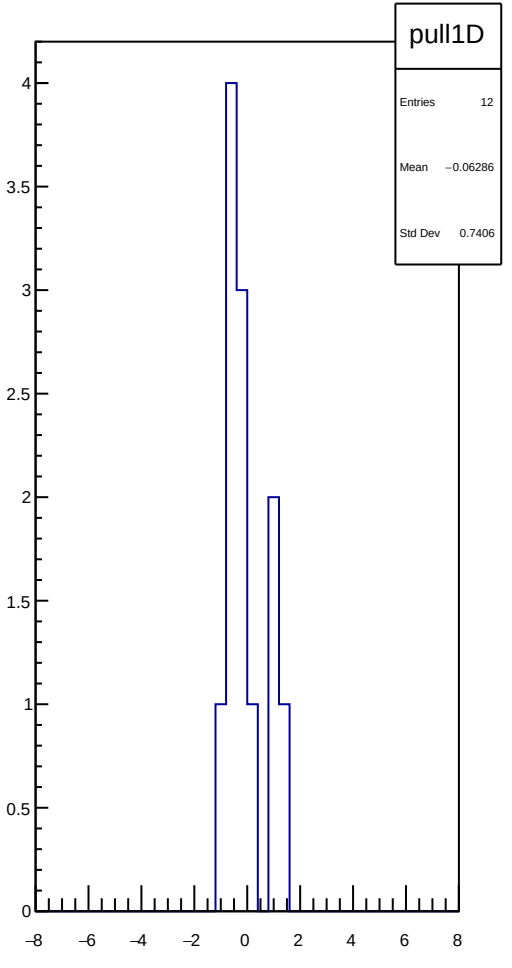

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 8733 / 11
p0 1651 ± 3.205
3000
2800
2600
2400
2200
2000
1800
1600
1400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

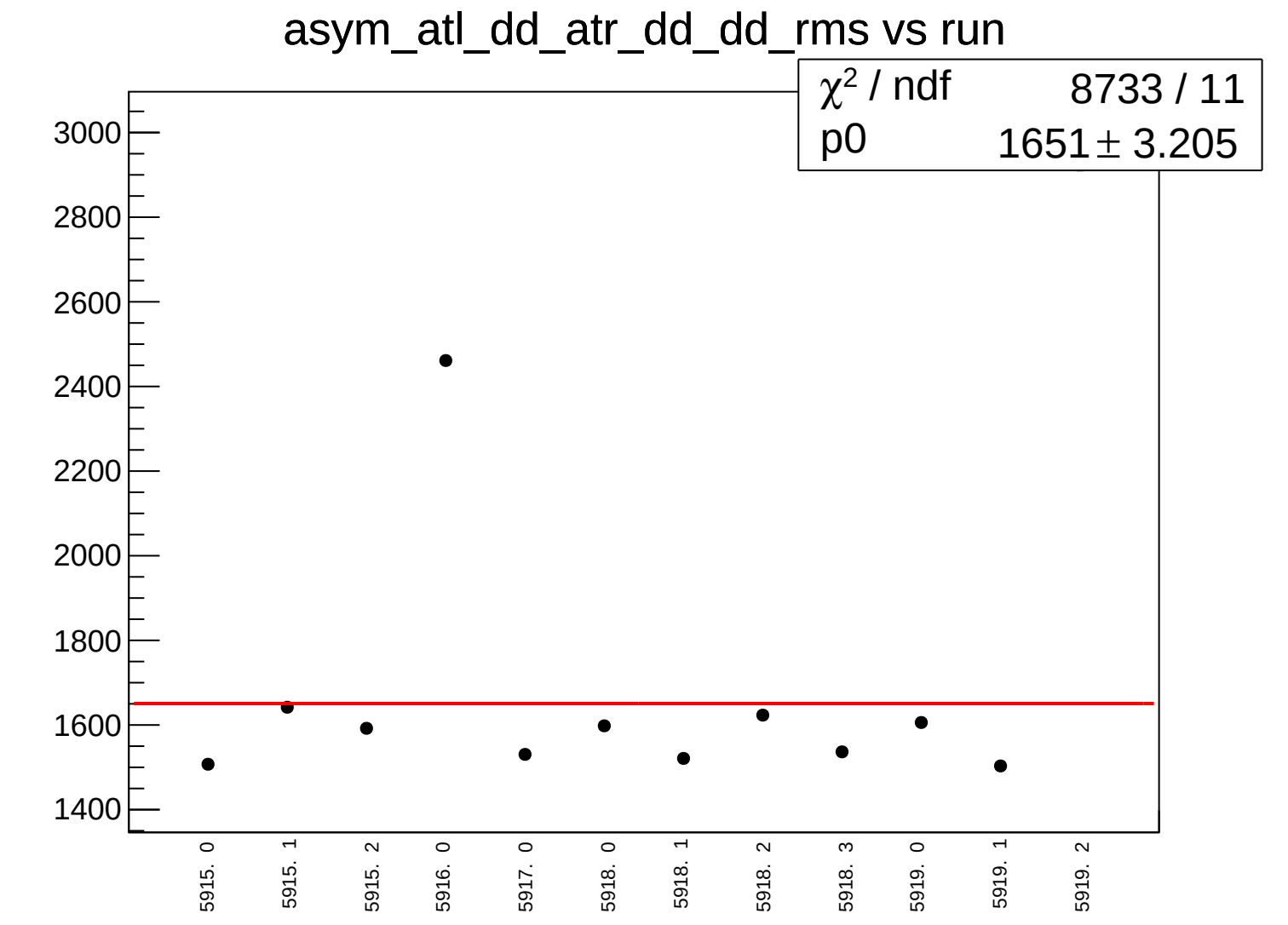

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 11
p0 0 ± 0.2887
1
0.8
0.6
0.4
0.2
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

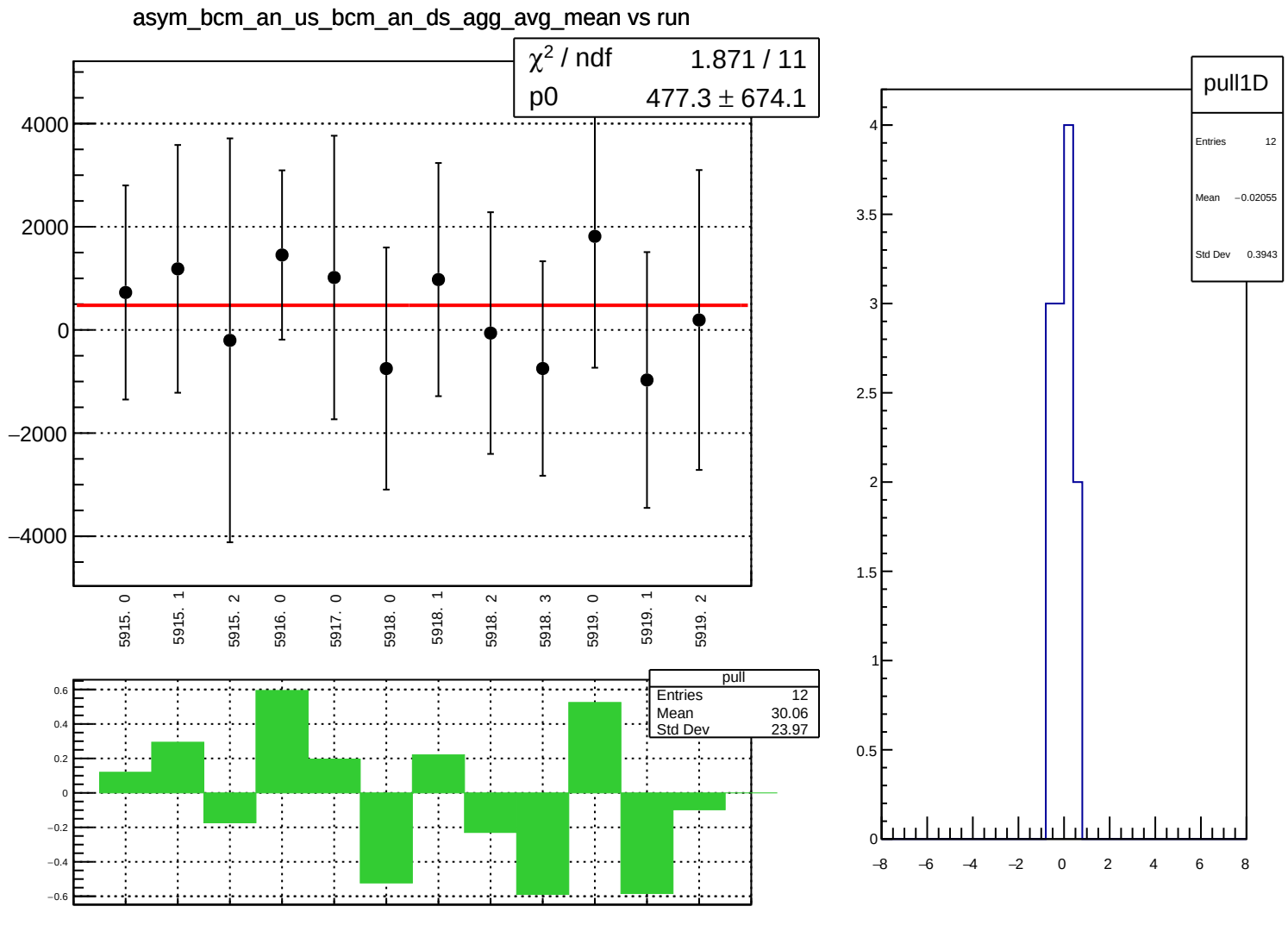

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

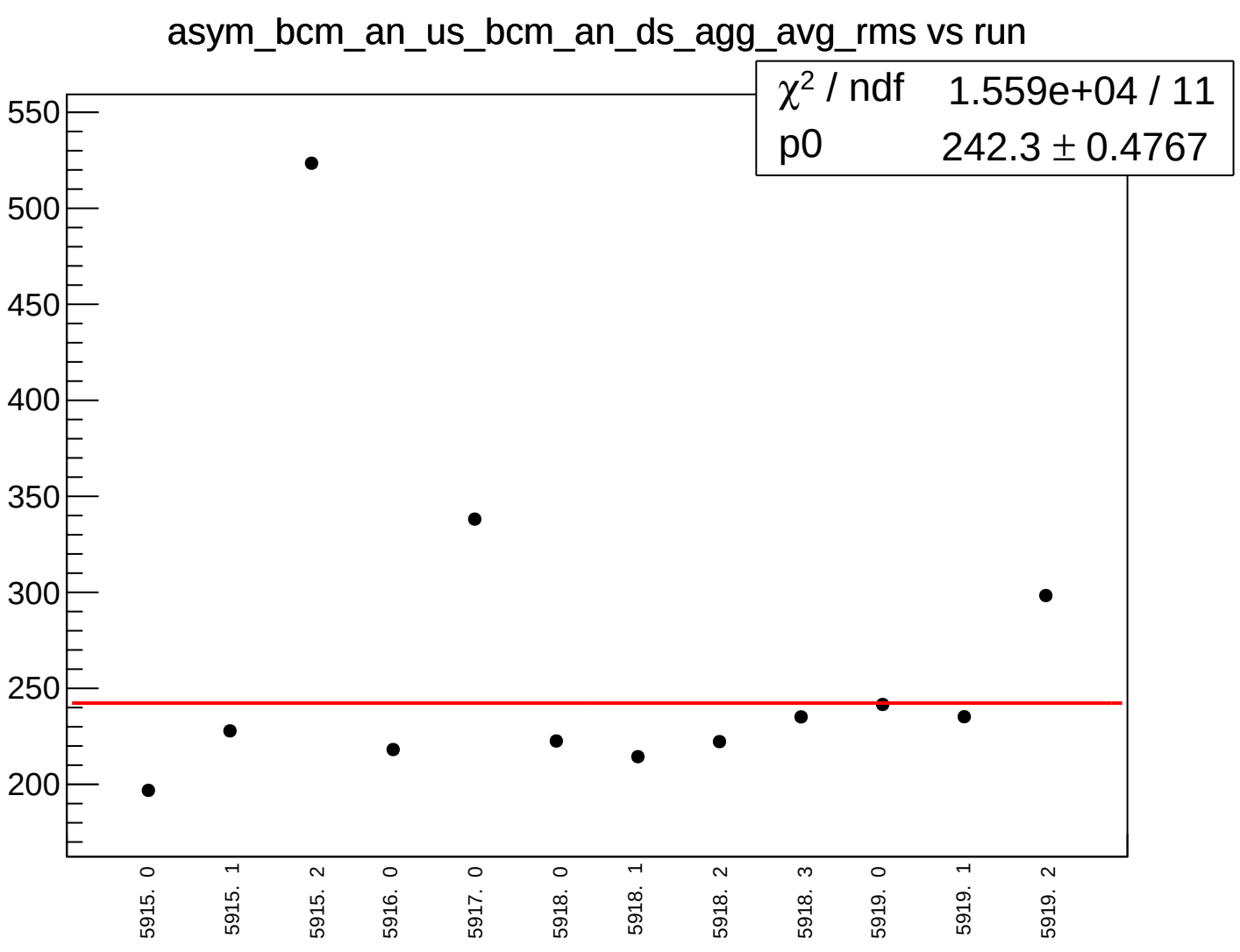

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 11
p0 0 ± 0.2887
1
0.8
0.6
0.4
0.2
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

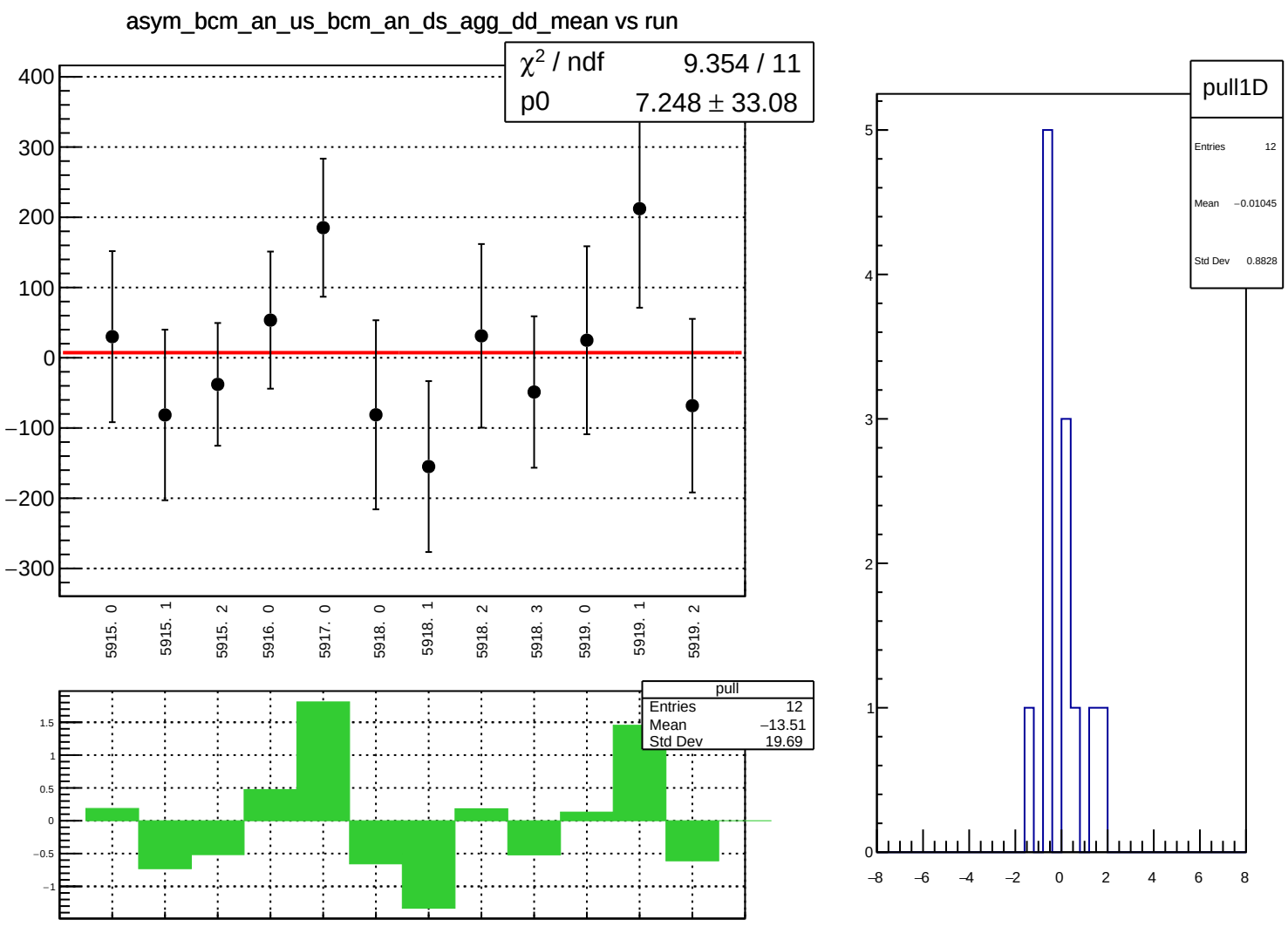

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 6.629 / 11
p0 2338 ± 4533
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.97
Std Dev 7.85
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

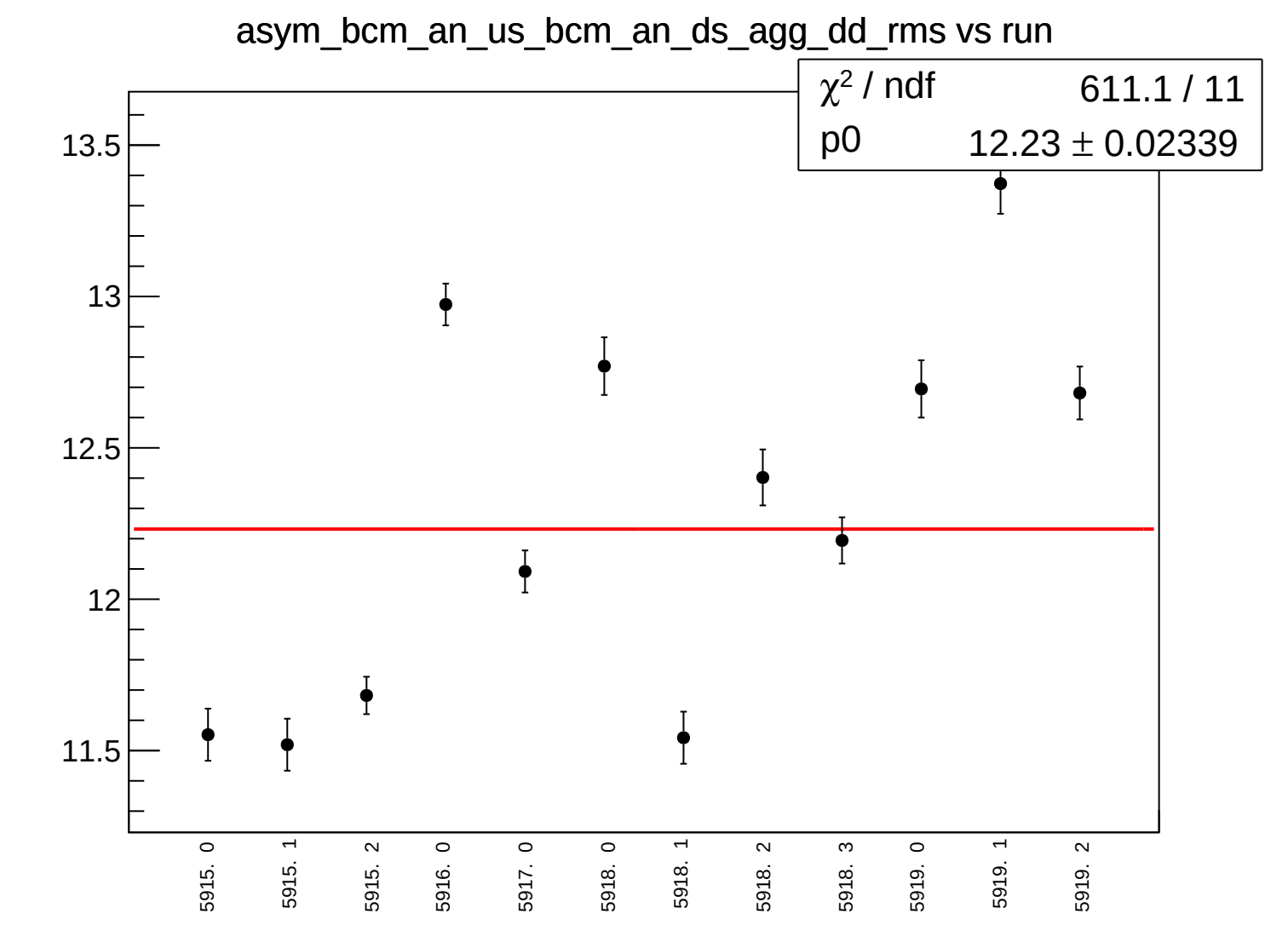

pull1D
Entries 12
Mean −0.06286
Std Dev 0.7406
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

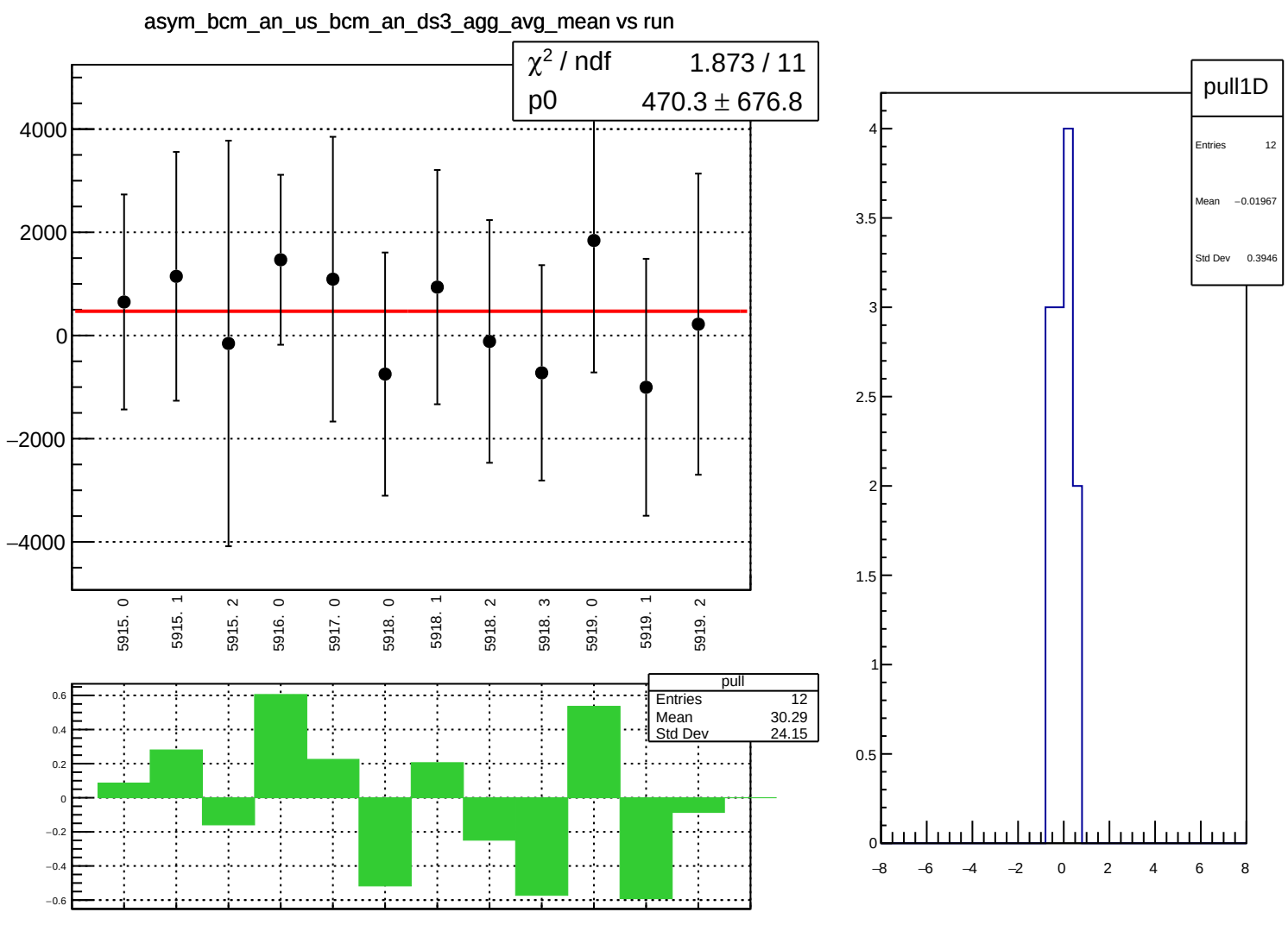

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 8733 / 11
p0 1651 ± 3.205
3000
2800
2600
2400
2200
2000
1800
1600
1400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

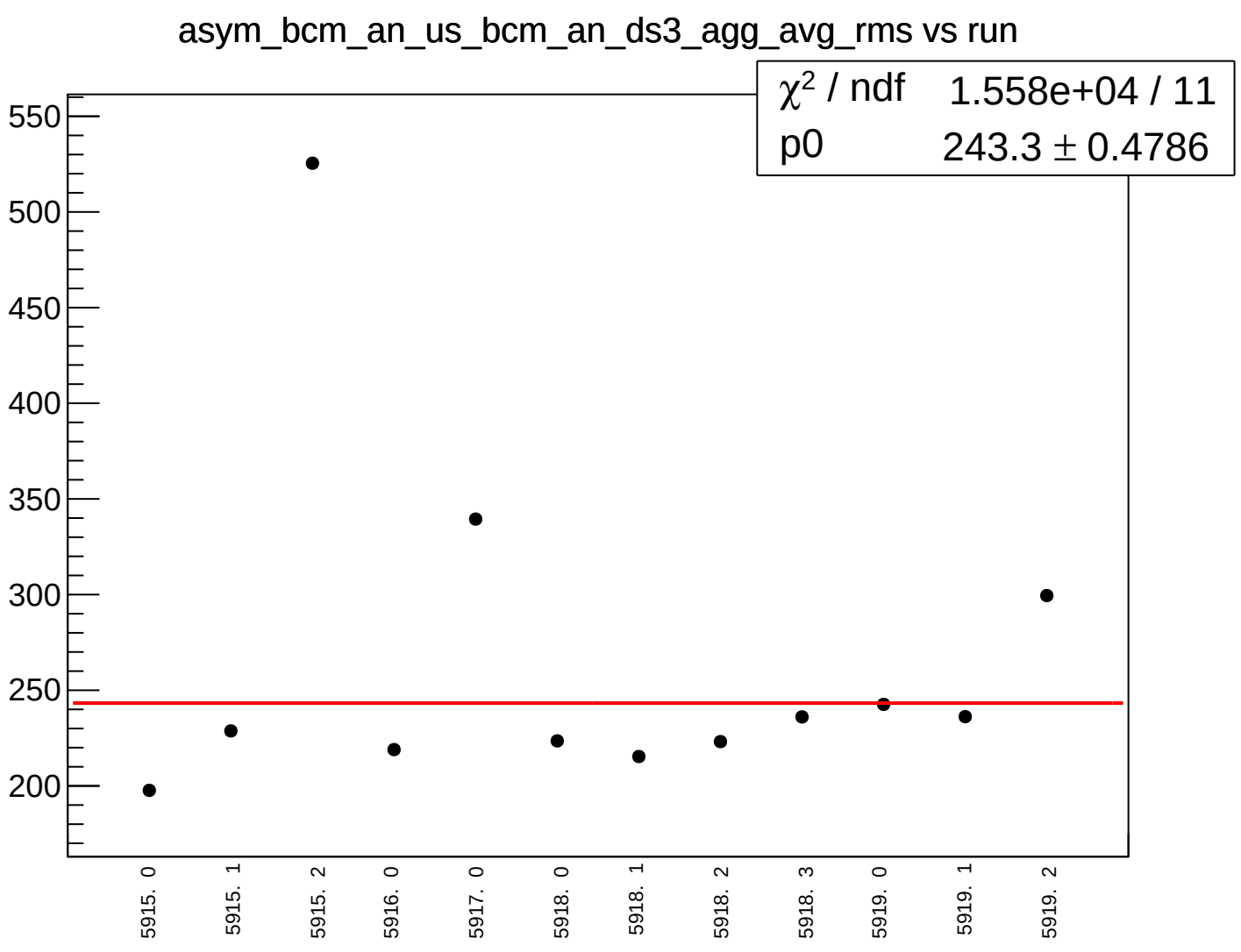

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 1.871 / 11
p0 477.3 ± 674.1
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 30.06
Std Dev 23.97
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.02055
Std Dev 0.3943
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

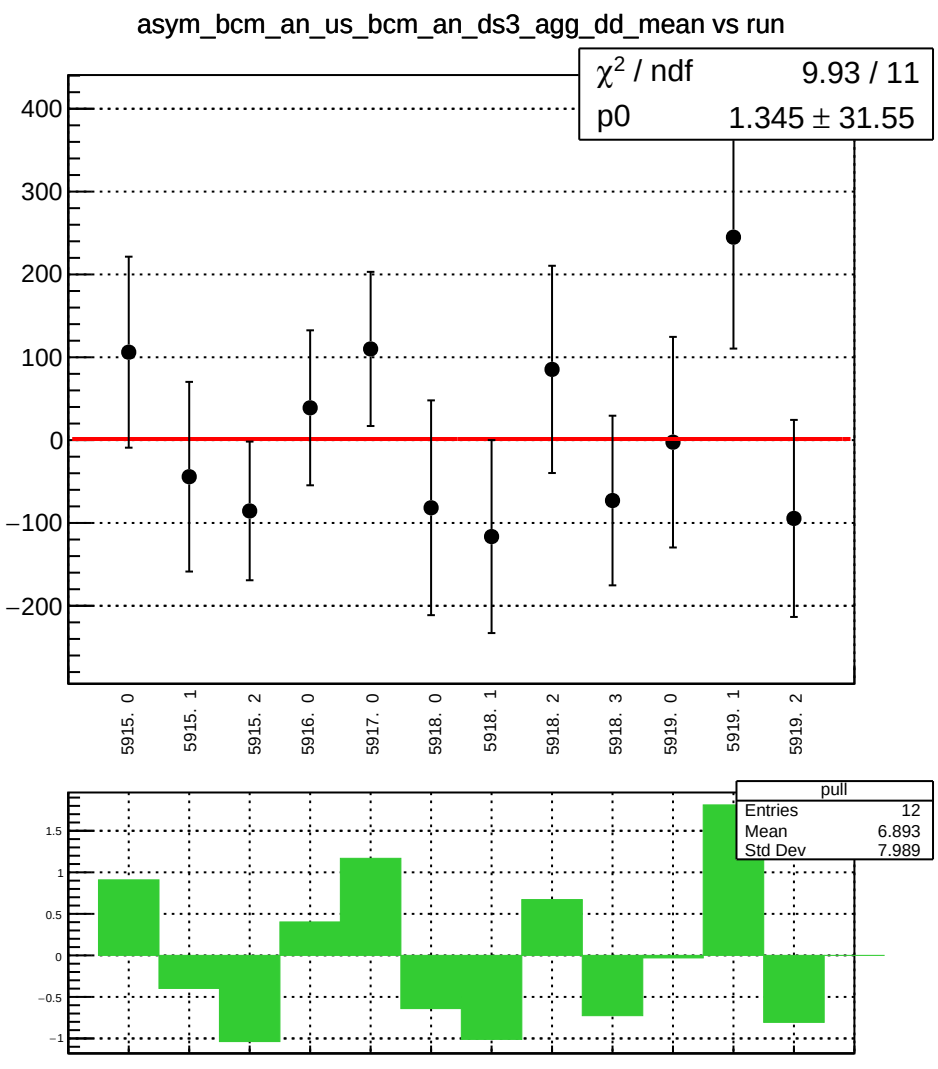

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.559e+04 / 11
p0 242.3 ± 0.4767
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

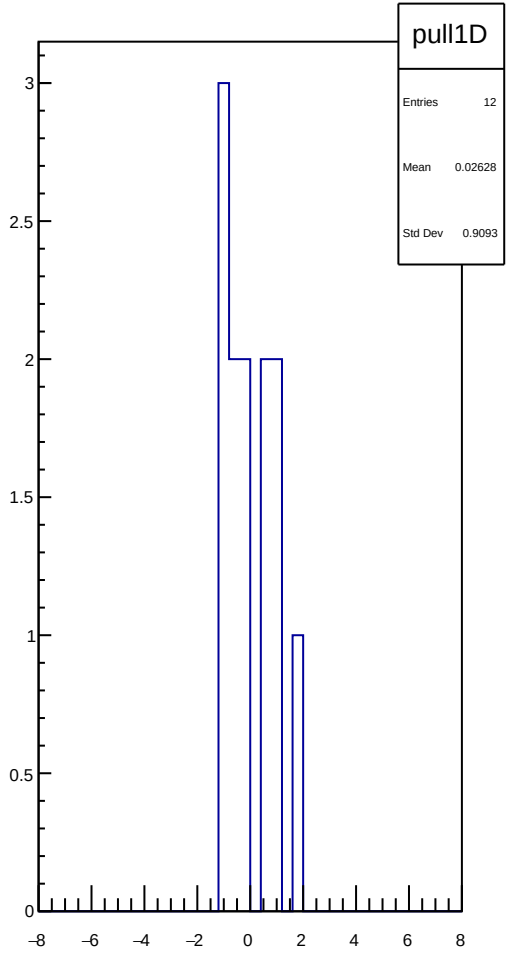

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 9.354 / 11
p0 7.248 ± 33.08
400
300
200
100
0
−100
−200
−300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −13.51
Std Dev 19.69
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.01045
Std Dev 0.8828
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

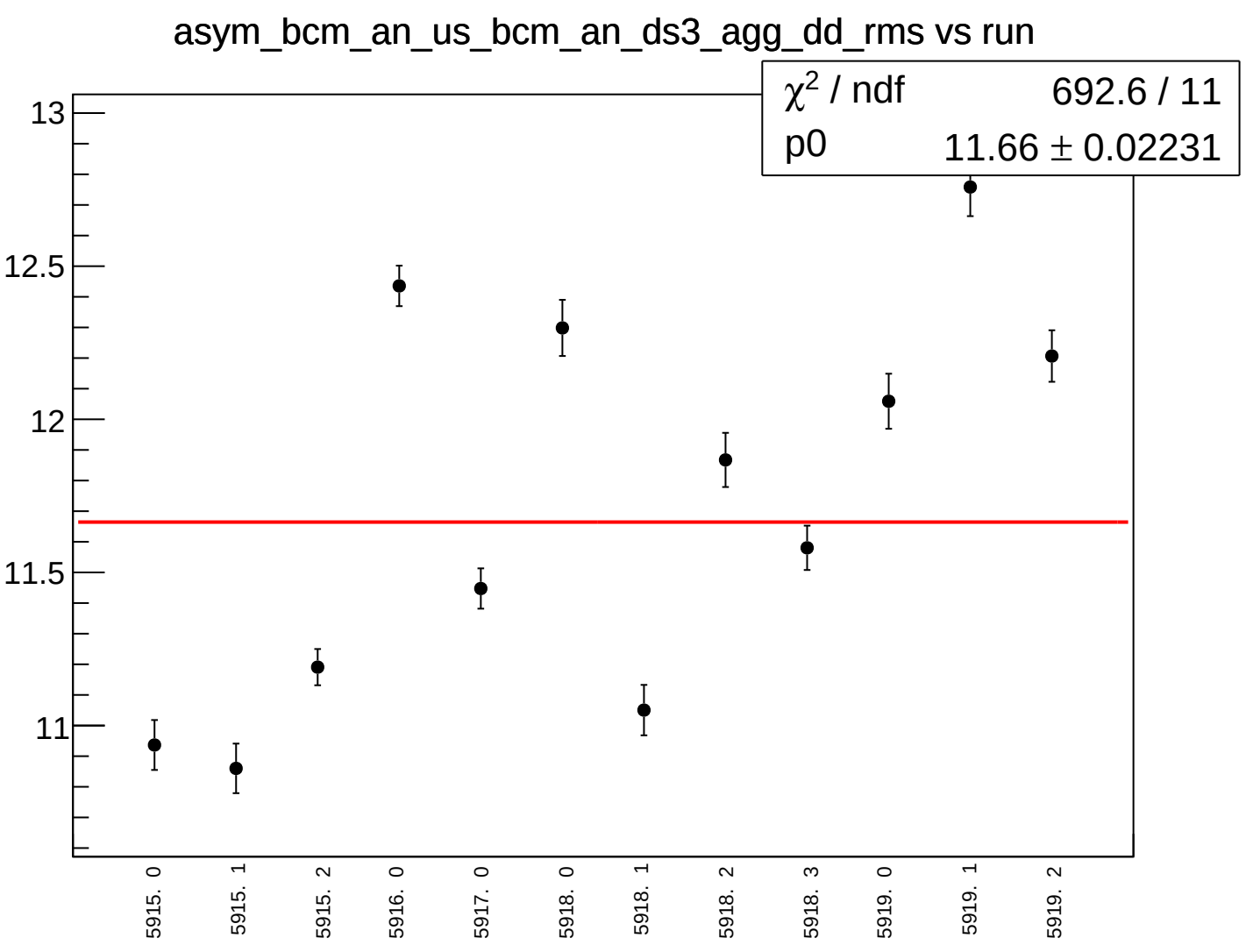

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 611.1 / 11
p0 12.23 ± 0.02339
13.5
13
12.5
12
11.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

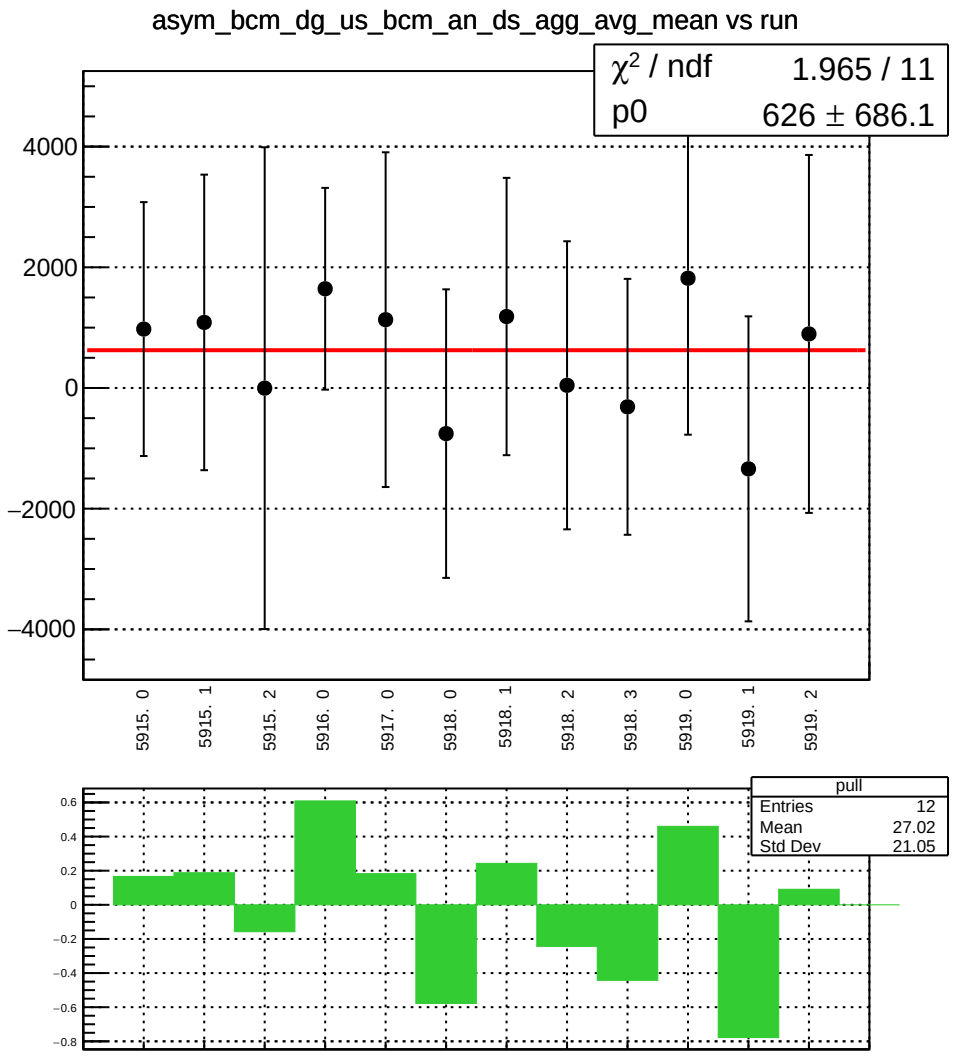

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 1.873 / 11
p0 470.3 ± 676.8
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 30.29
Std Dev 24.15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.01967
Std Dev 0.3946
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

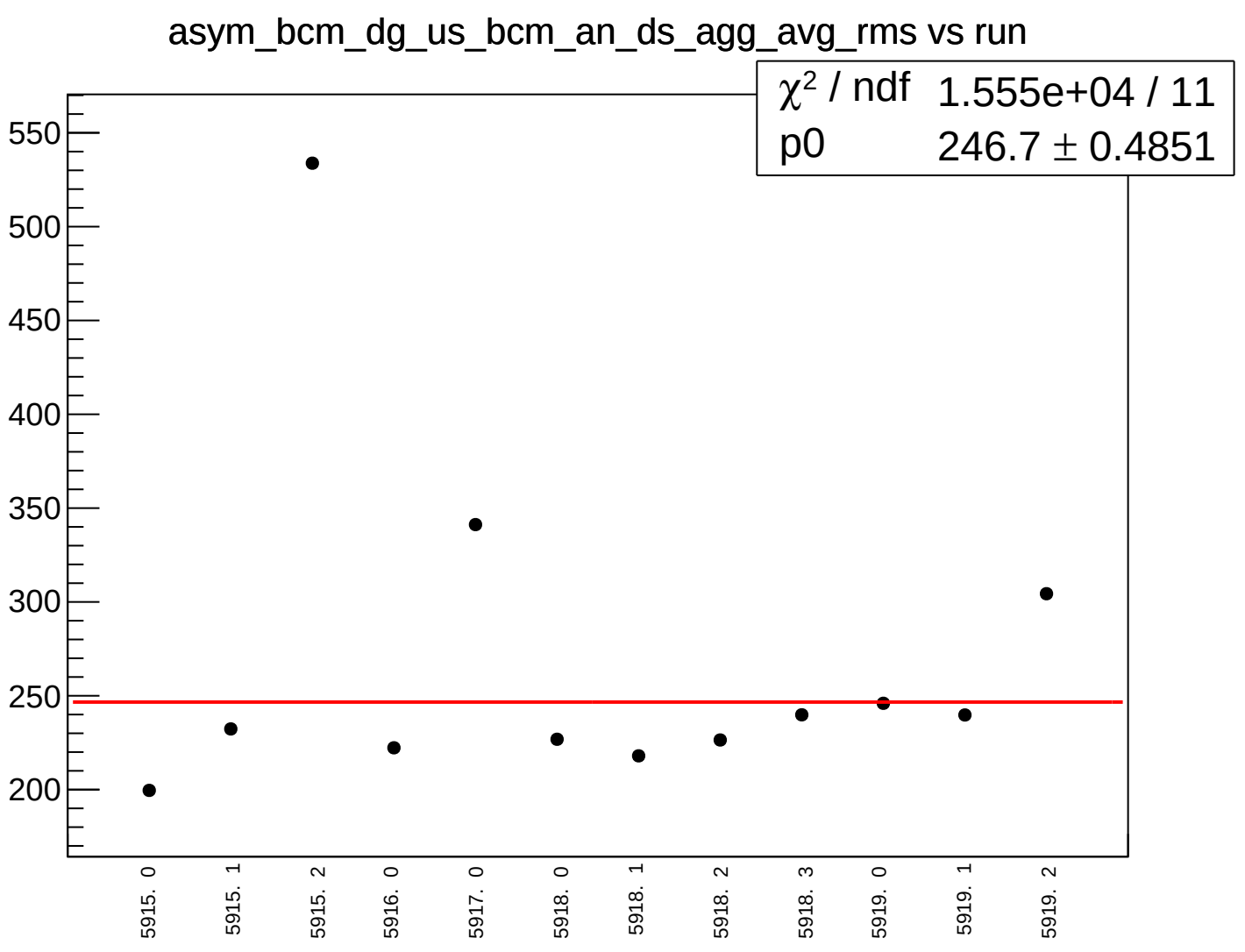

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.558e+04 / 11
p0 243.3 ± 0.4786
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

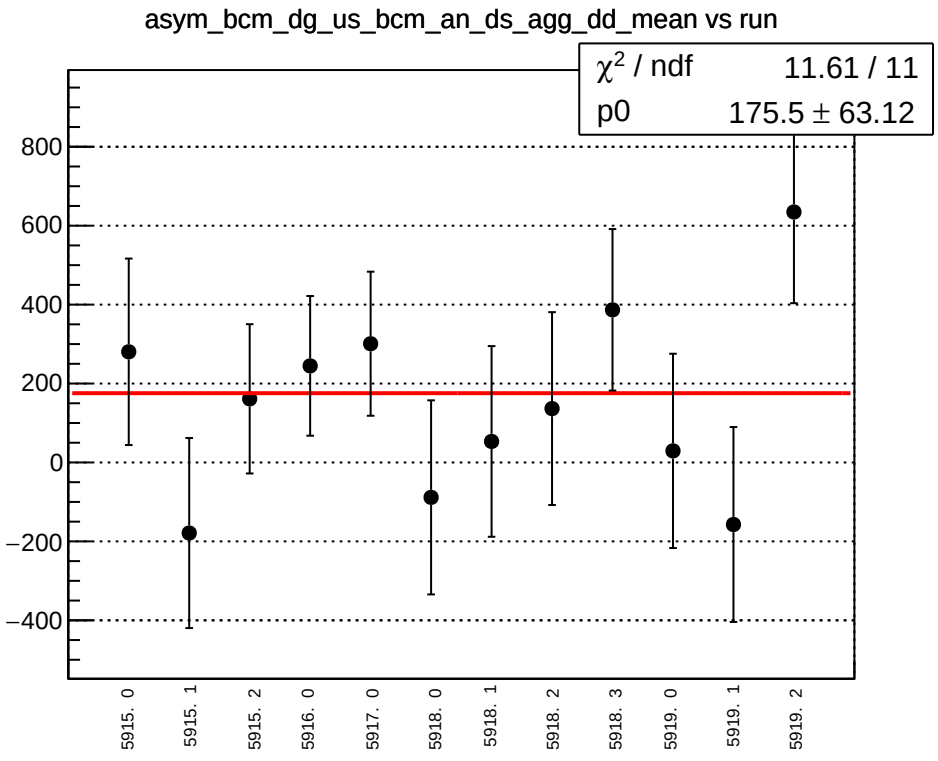

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 9.93 / 11
p0 1.345 ± 31.55
400
300
200
100
0
−100
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 6.893
Std Dev 7.989
1.5
1
0.5
0
−0.5
−1

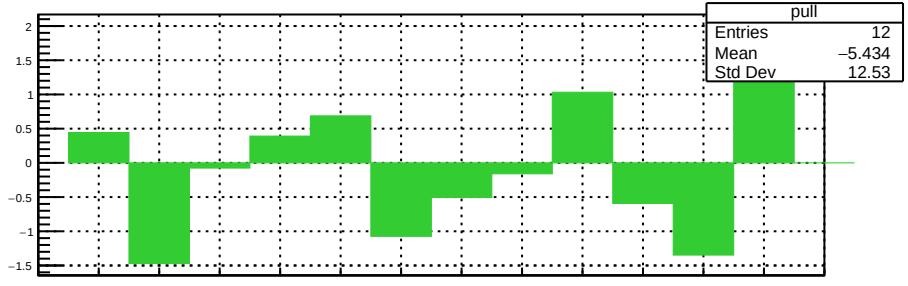

pull1D
Entries 12
Mean 0.02628
Std Dev 0.9093
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

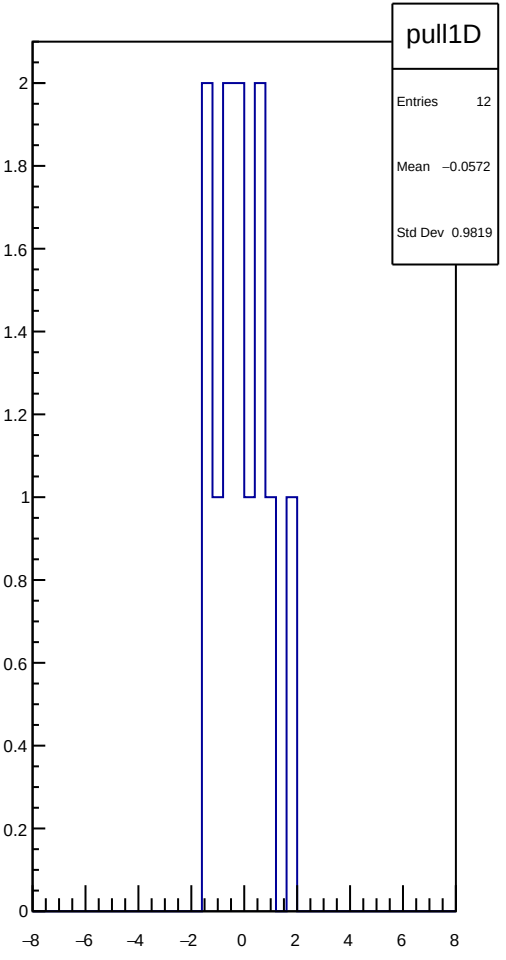

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 692.6 / 11
p0 11.66 ± 0.02231
13
12.5
12
11.5
11
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

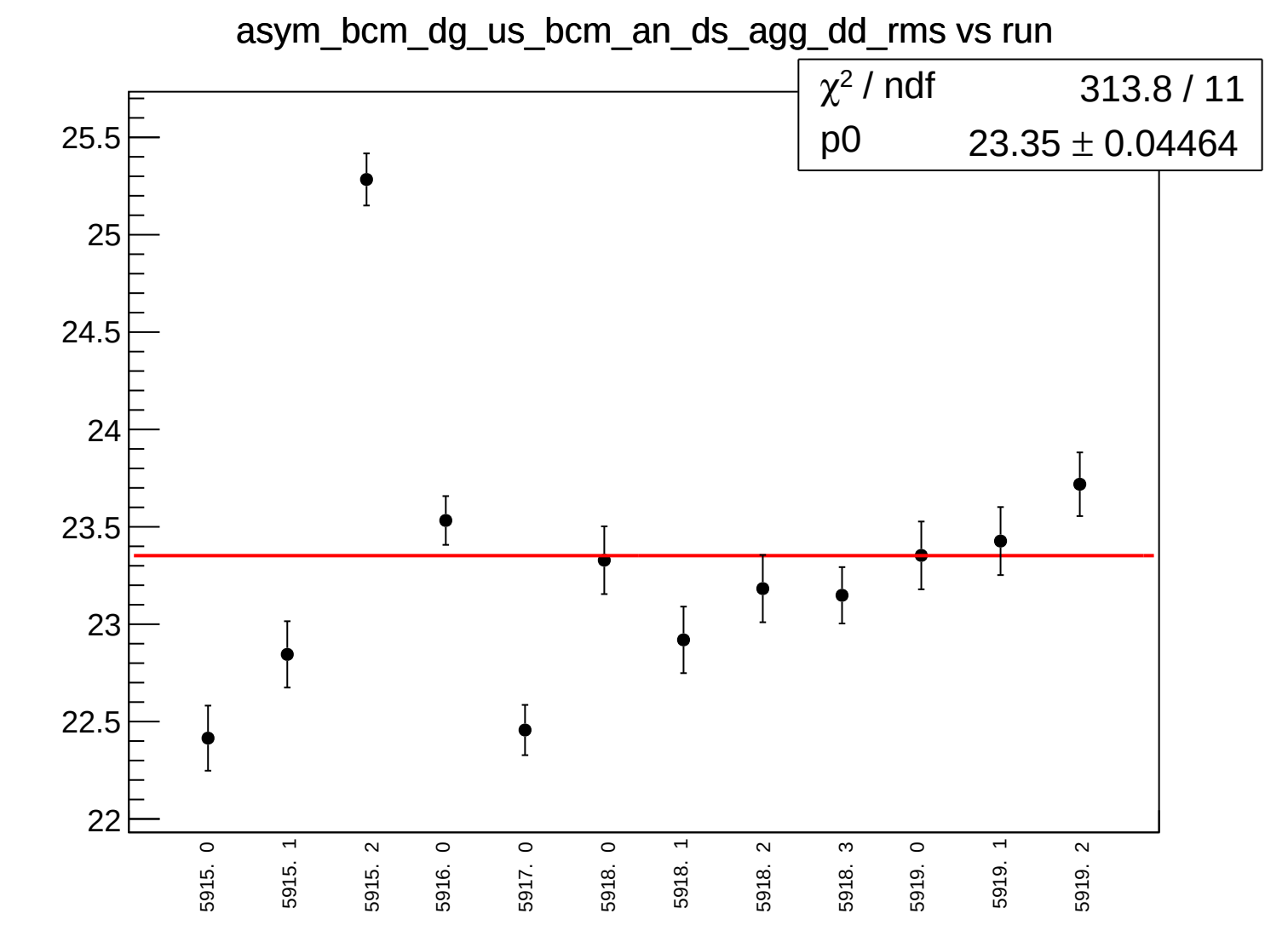

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 1.965 / 11
p0 626 ± 686.1
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.02
Std Dev 21.05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean −0.02164
Std Dev 0.4041
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

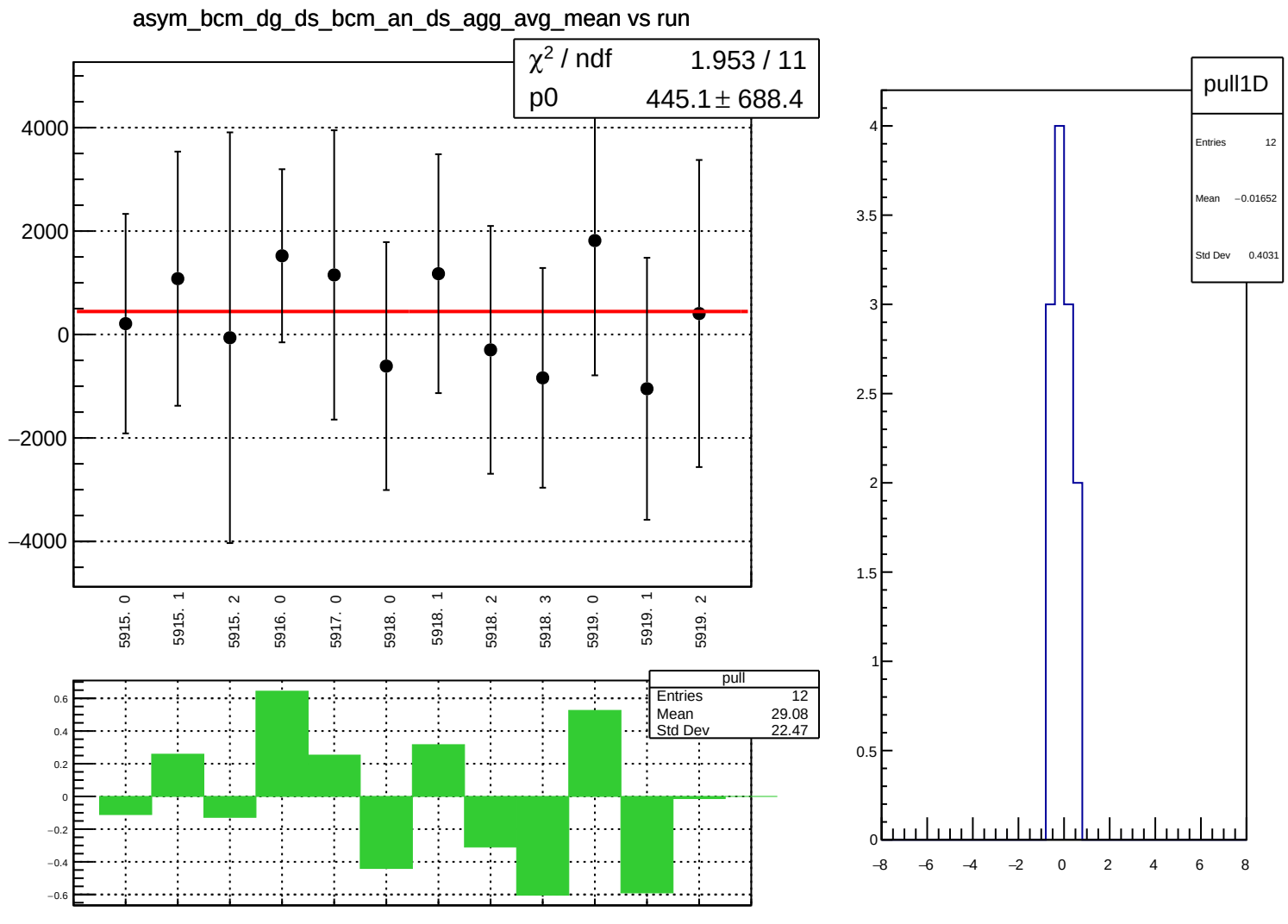

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.555e+04 / 11
p0 246.7 ± 0.4851
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

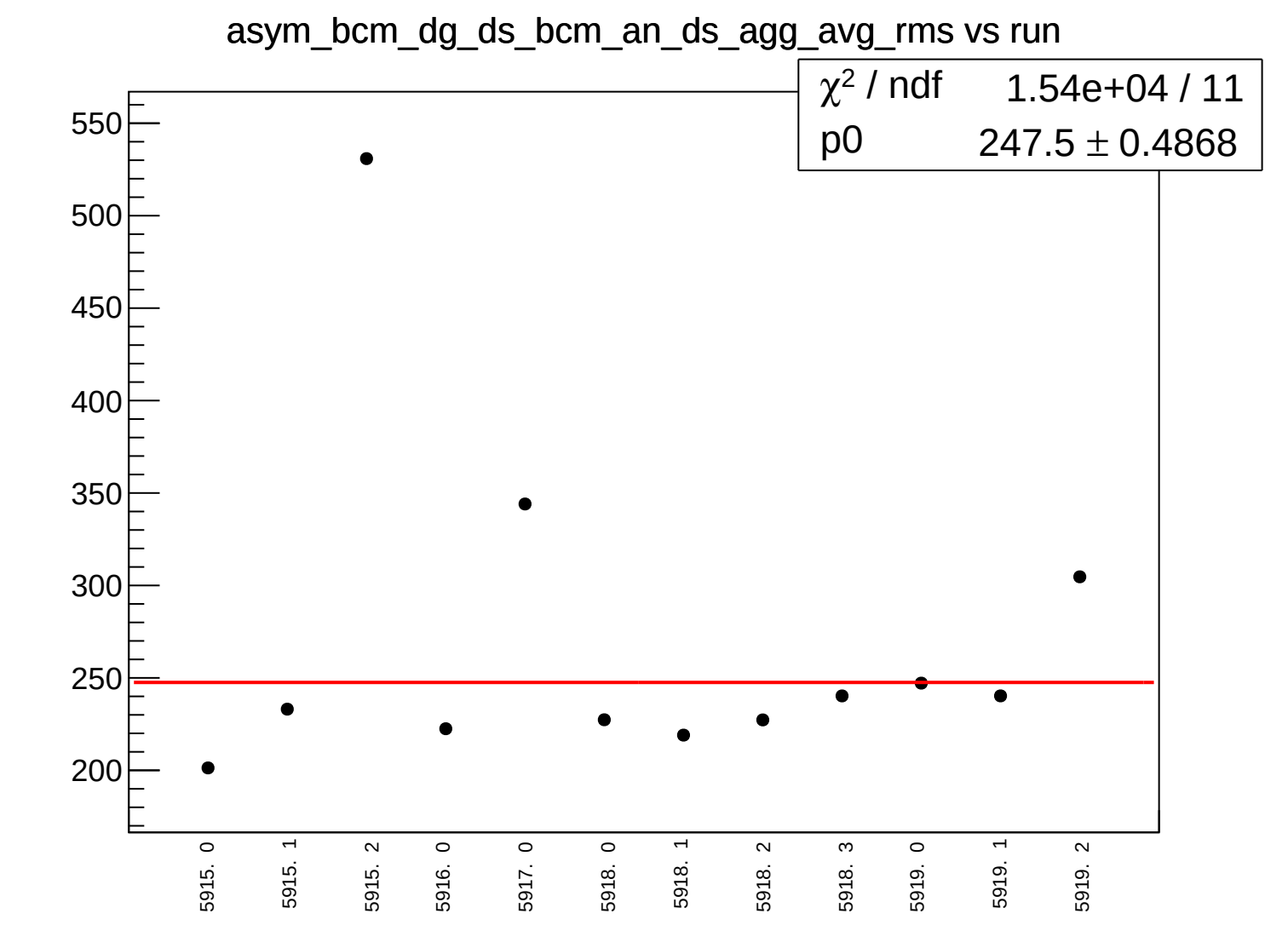

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 11.61 / 11
p0 175.5 ± 63.12
800
600
400
200
0
−200
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

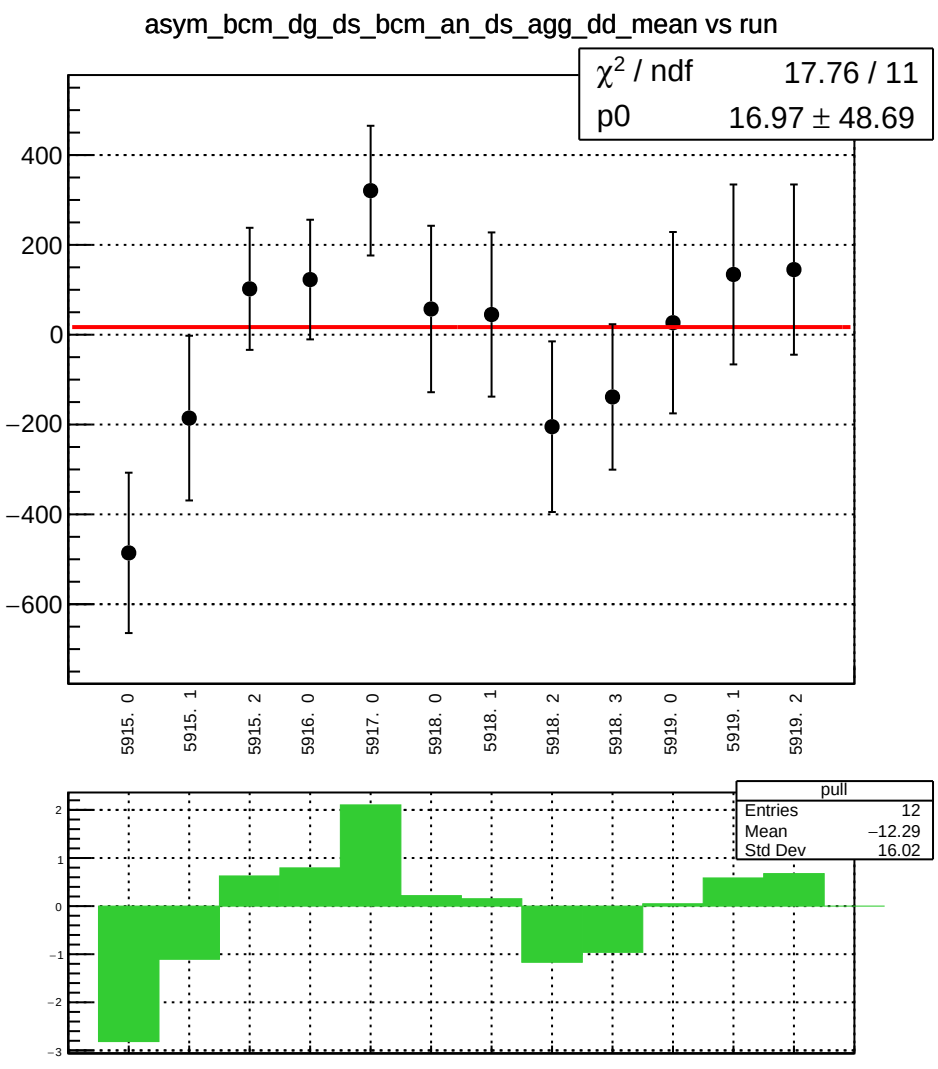

pull
Entries 12
Mean −5.434
Std Dev 12.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

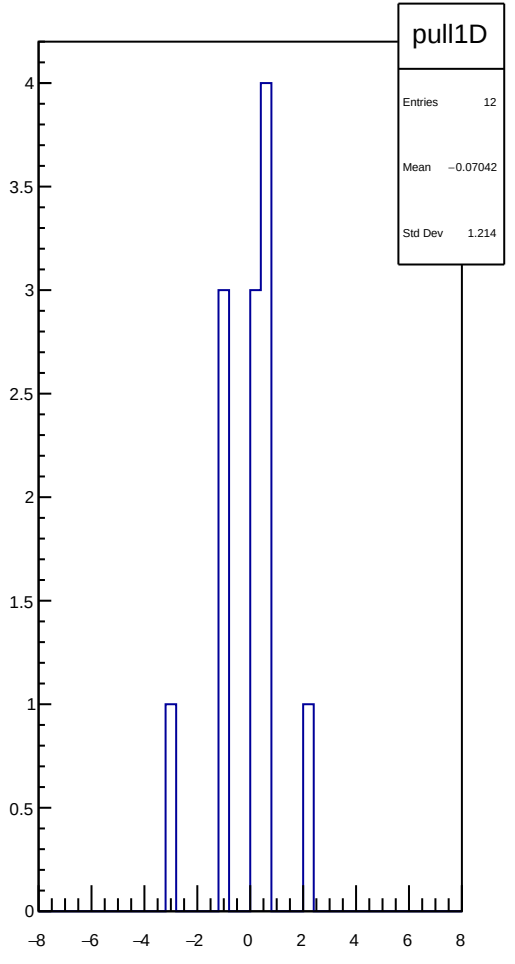

pull1D
Entries 12
Mean −0.0572
Std Dev 0.9819
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

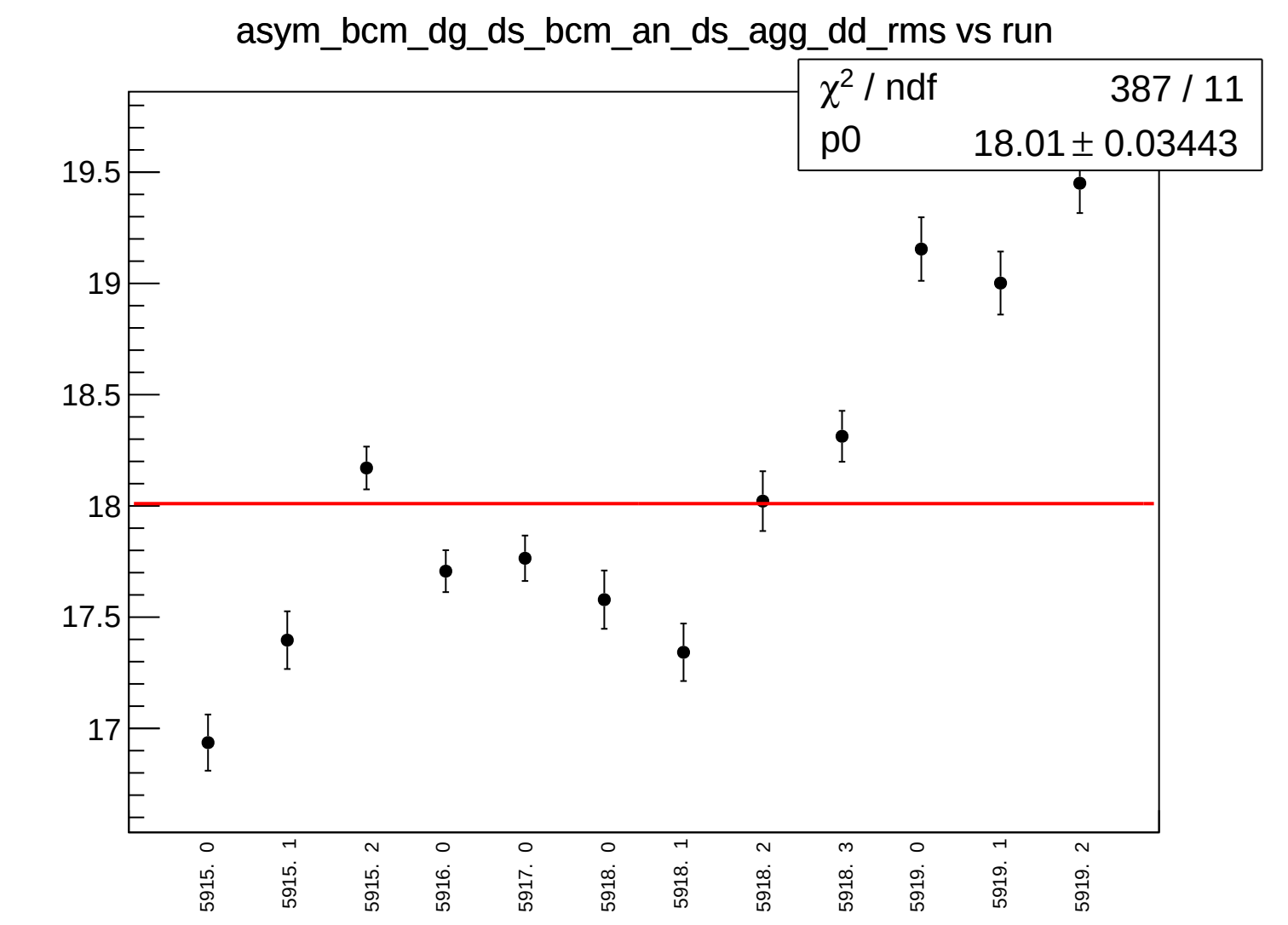

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 313.8 / 11
p0 23.35 ± 0.04464
25.5
25
24.5
24
23.5
23
22.5
22
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

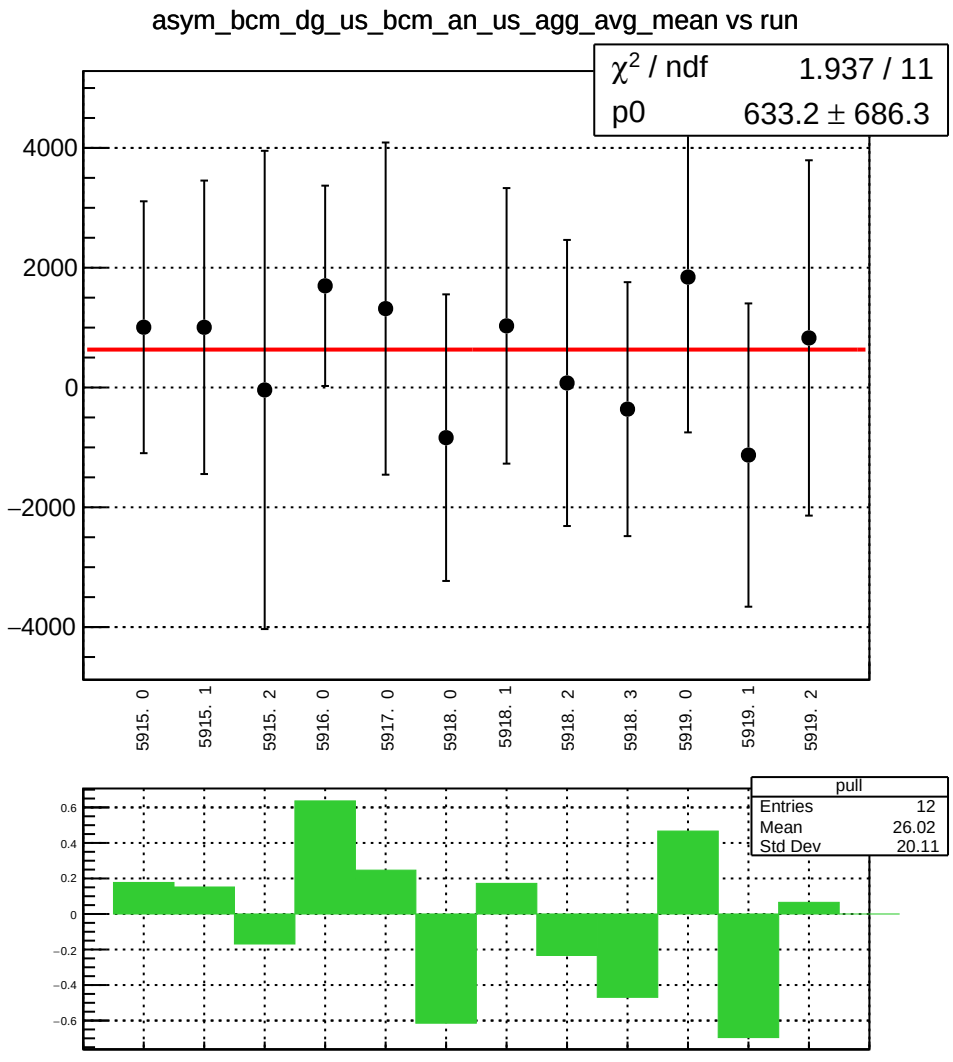

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 1.953 / 11
p0 445.1 ± 688.4
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 29.08
Std Dev 22.47
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.01652
Std Dev 0.4031
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

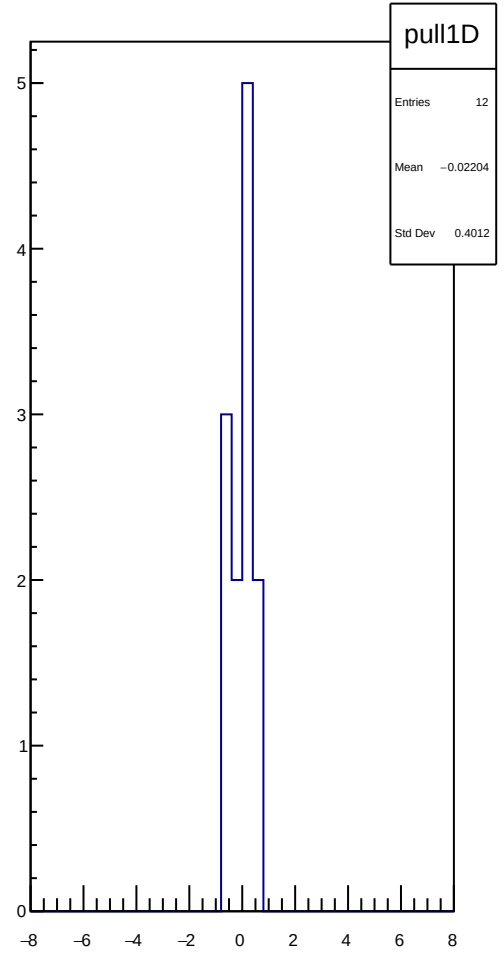

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.54e+04 / 11
p0 247.5 ± 0.4868
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

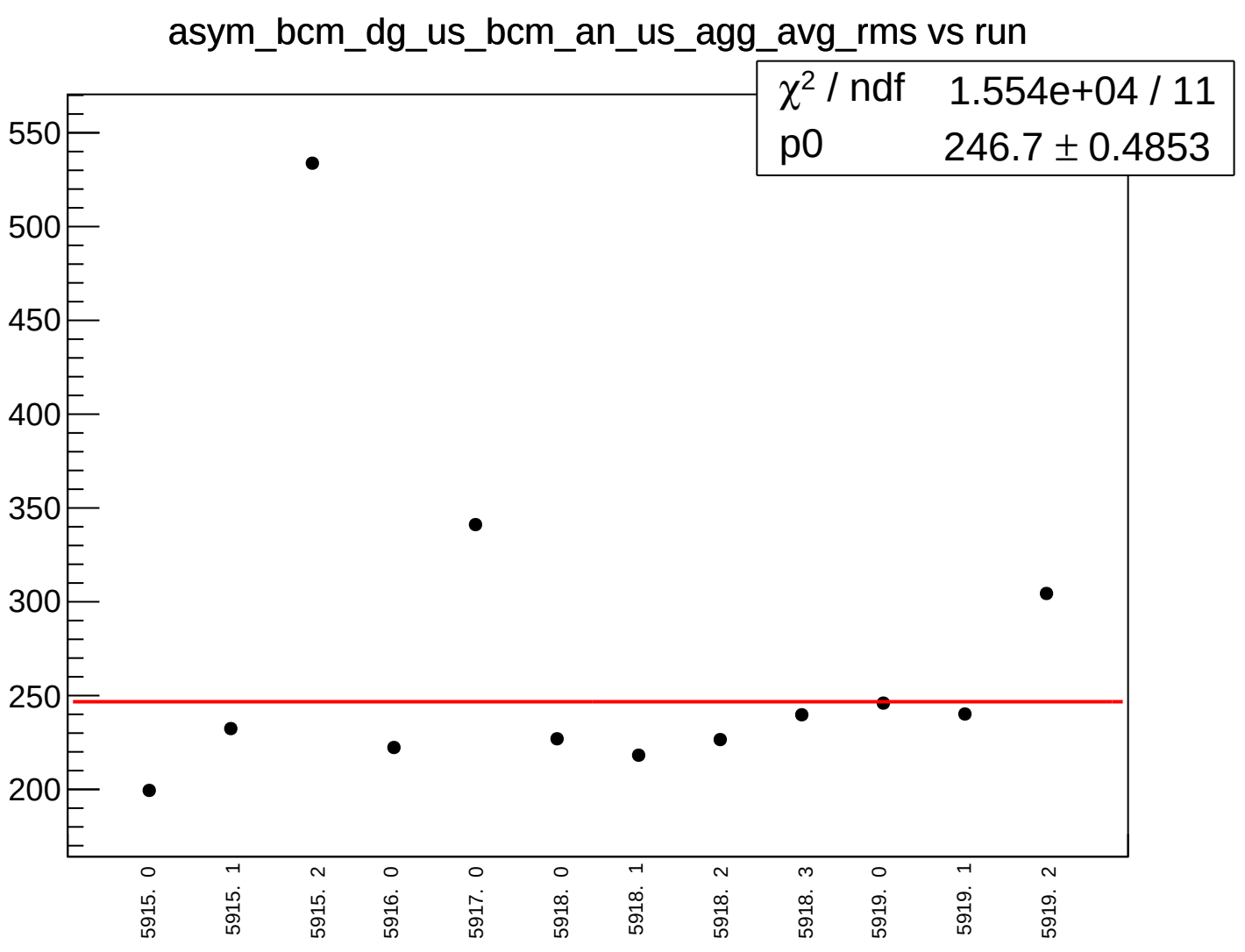

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 17.76 / 11
p0 16.97 ± 48.69
400
200
0
−200
−400
−600
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −12.29
Std Dev 16.02
2
1
0
−1
−2
−3

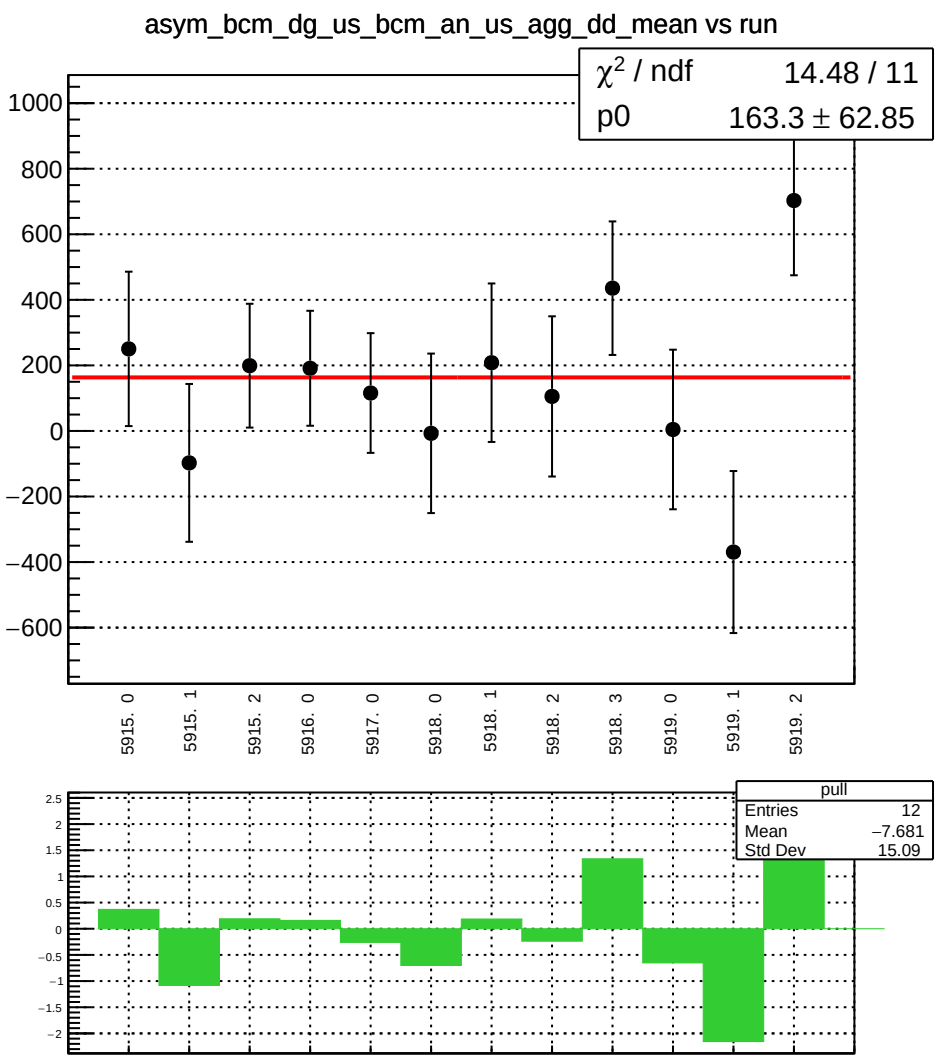

pull1D
Entries 12
Mean −0.07042
Std Dev 1.214
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

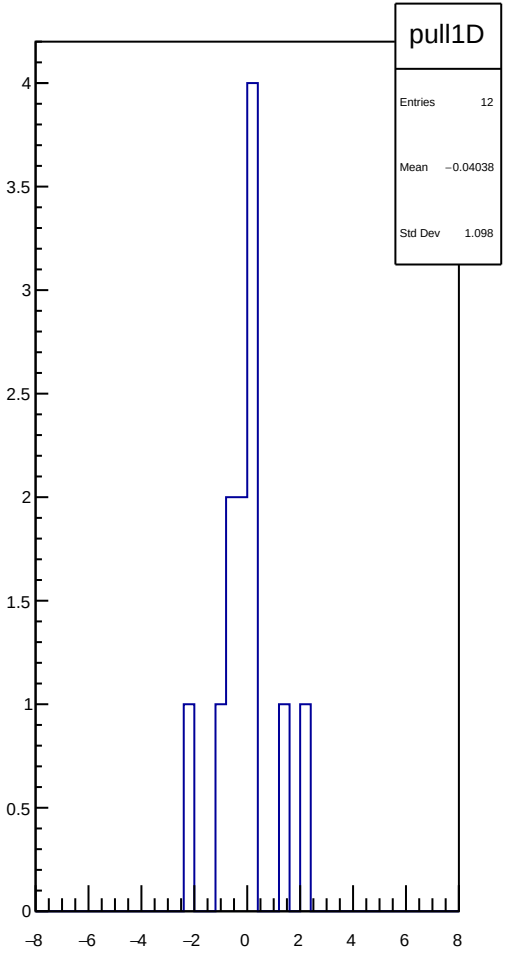

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 387 / 11
p0 18.01 ± 0.03443
19.5
19
18.5
18
17.5
17
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

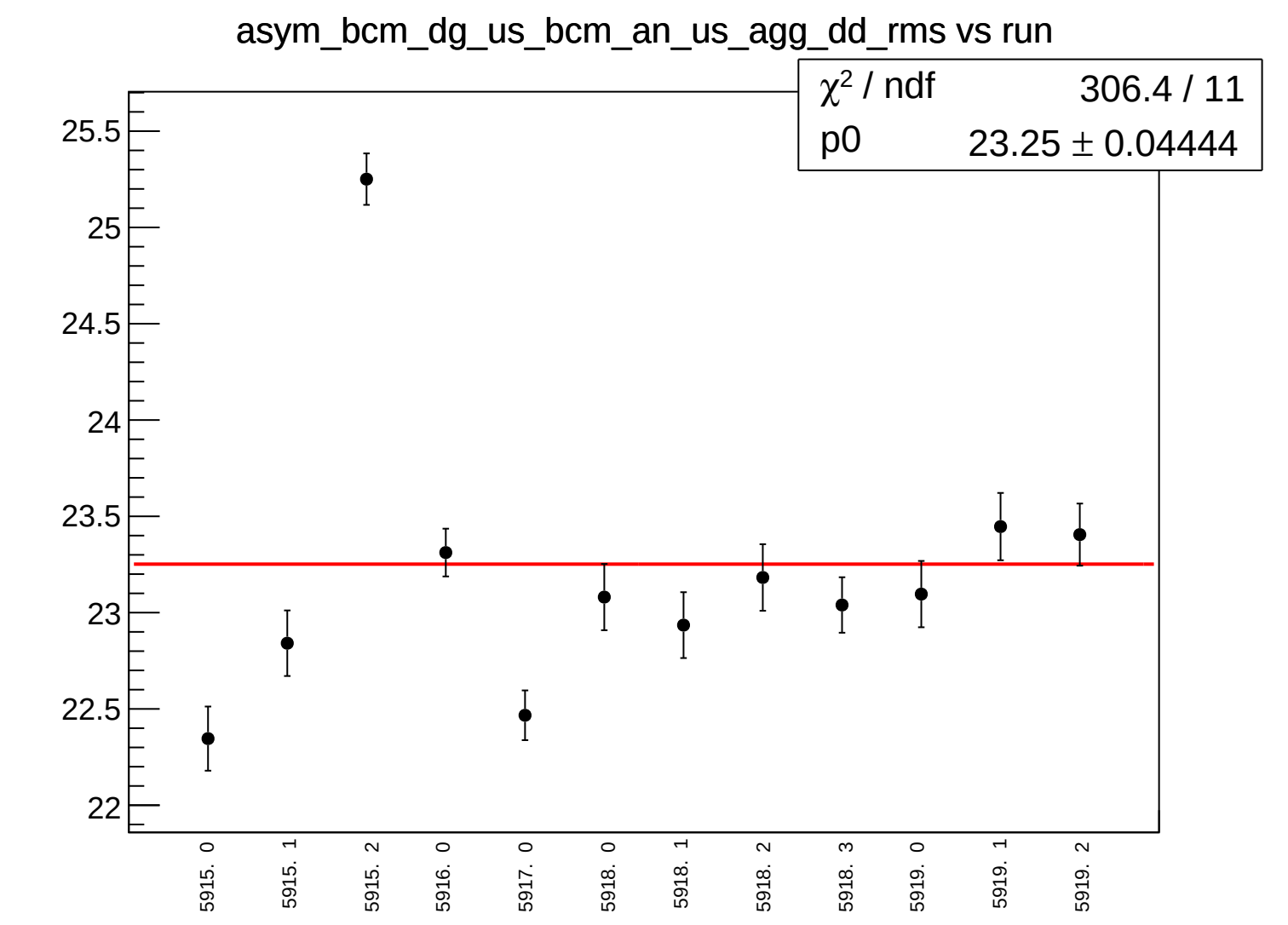

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 1.937 / 11
p0 633.2 ± 686.3
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 26.02
Std Dev 20.11
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

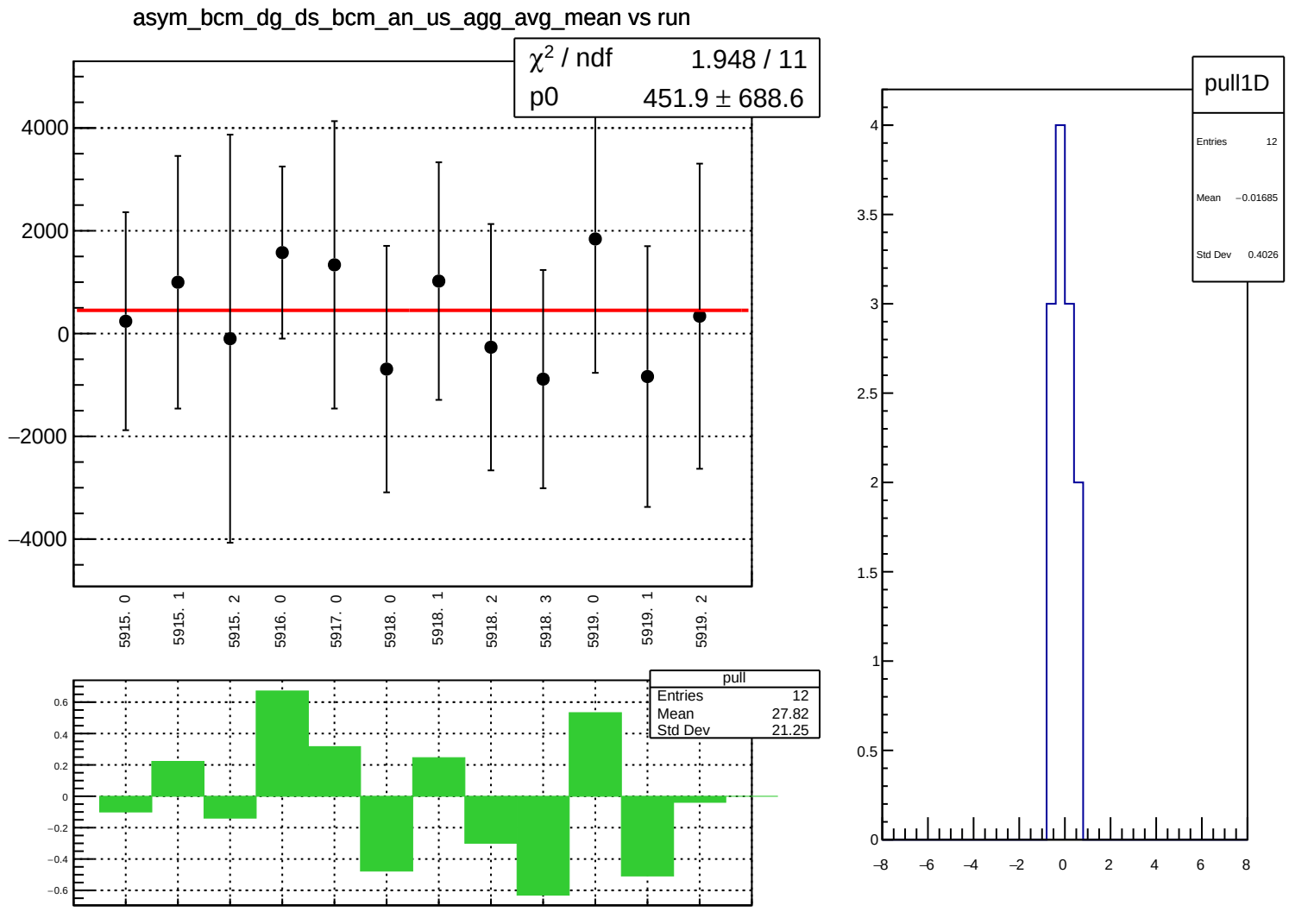

pull1D
Entries 12
Mean −0.02204
Std Dev 0.4012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

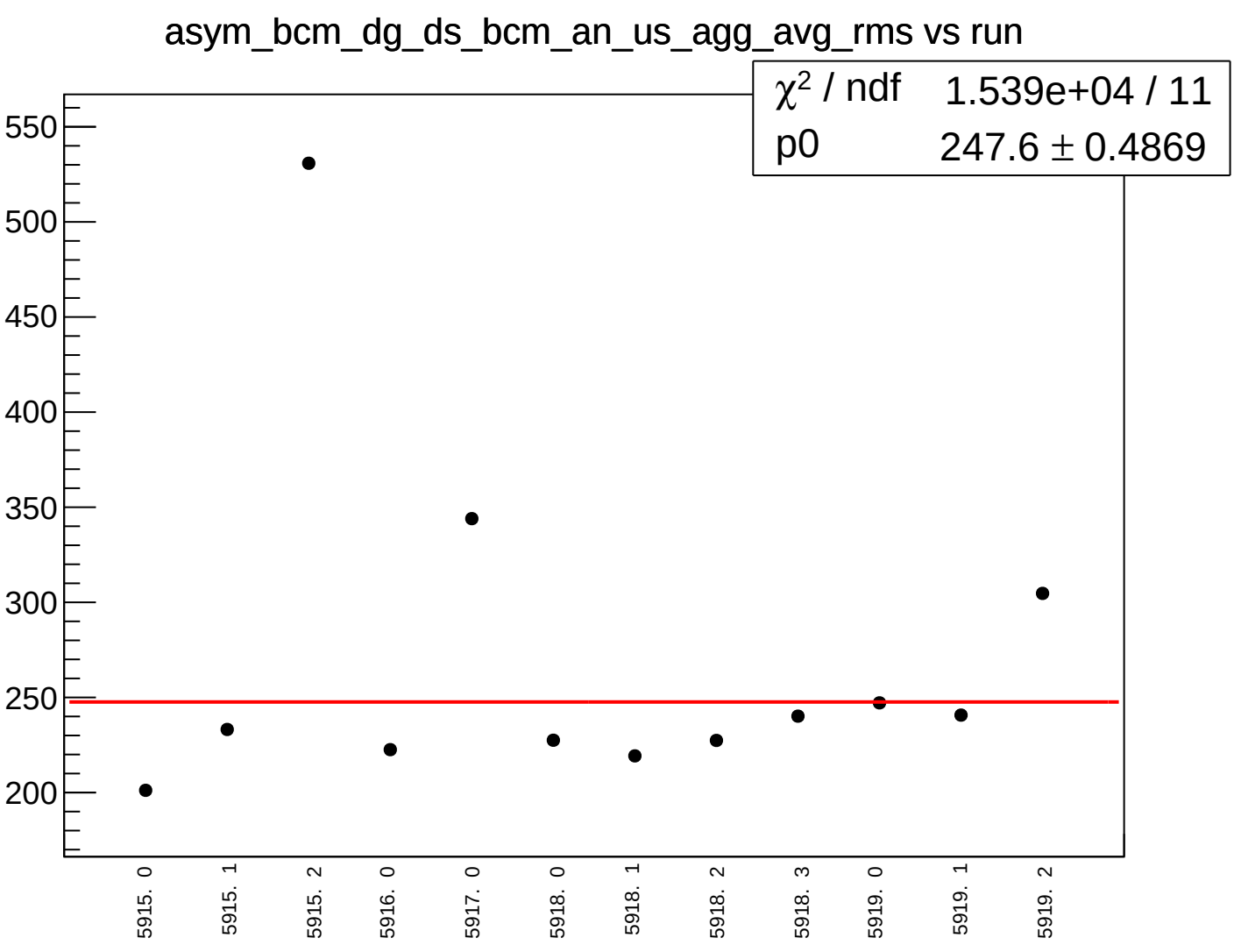

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.554e+04 / 11
p0 246.7 ± 0.4853
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

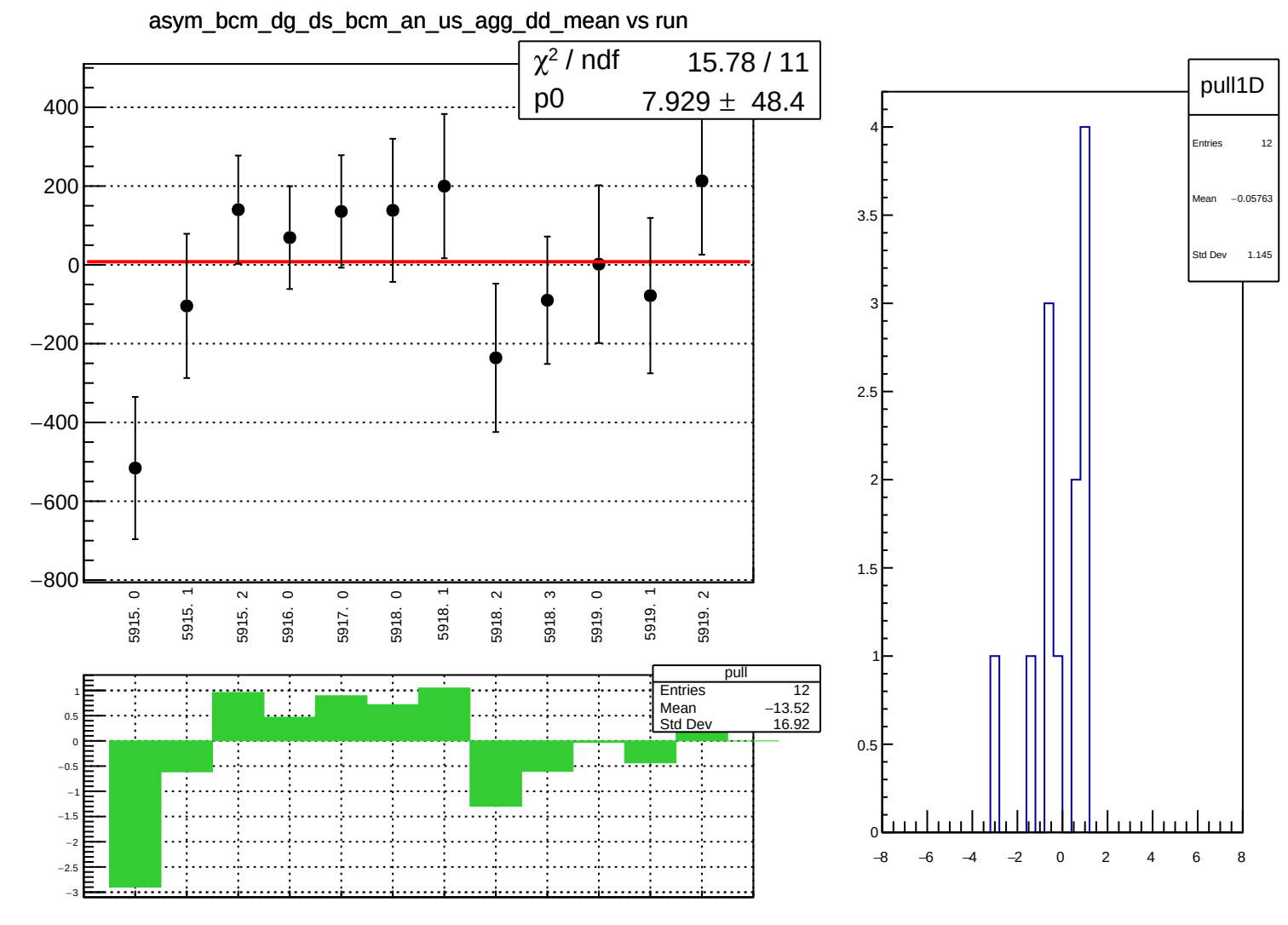

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 14.48 / 11
p0 163.3 ± 62.85
1000
800
600
400
200
0
−200
−400
−600
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −7.681
Std Dev 15.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

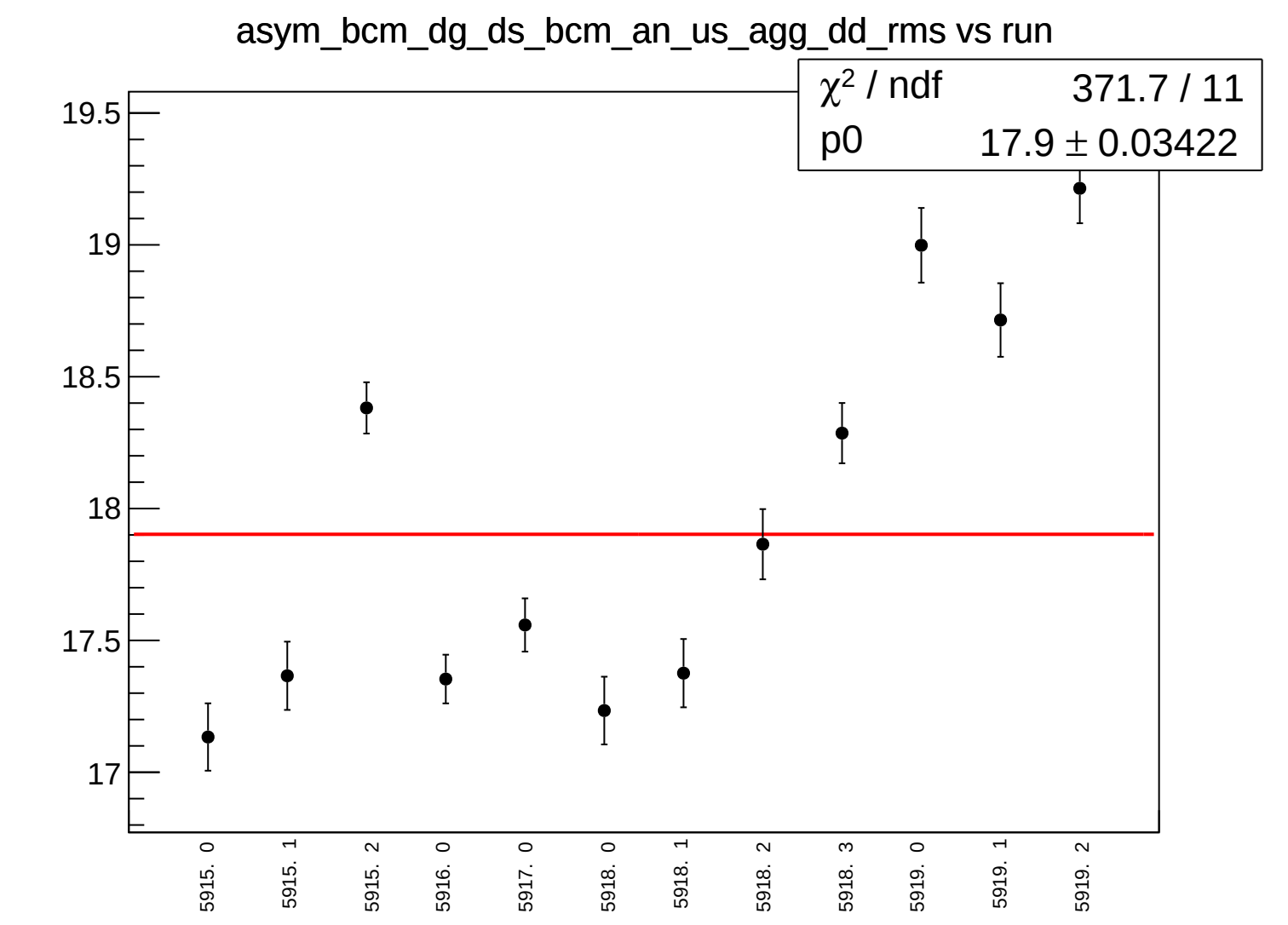

pull1D
Entries 12
Mean −0.04038
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

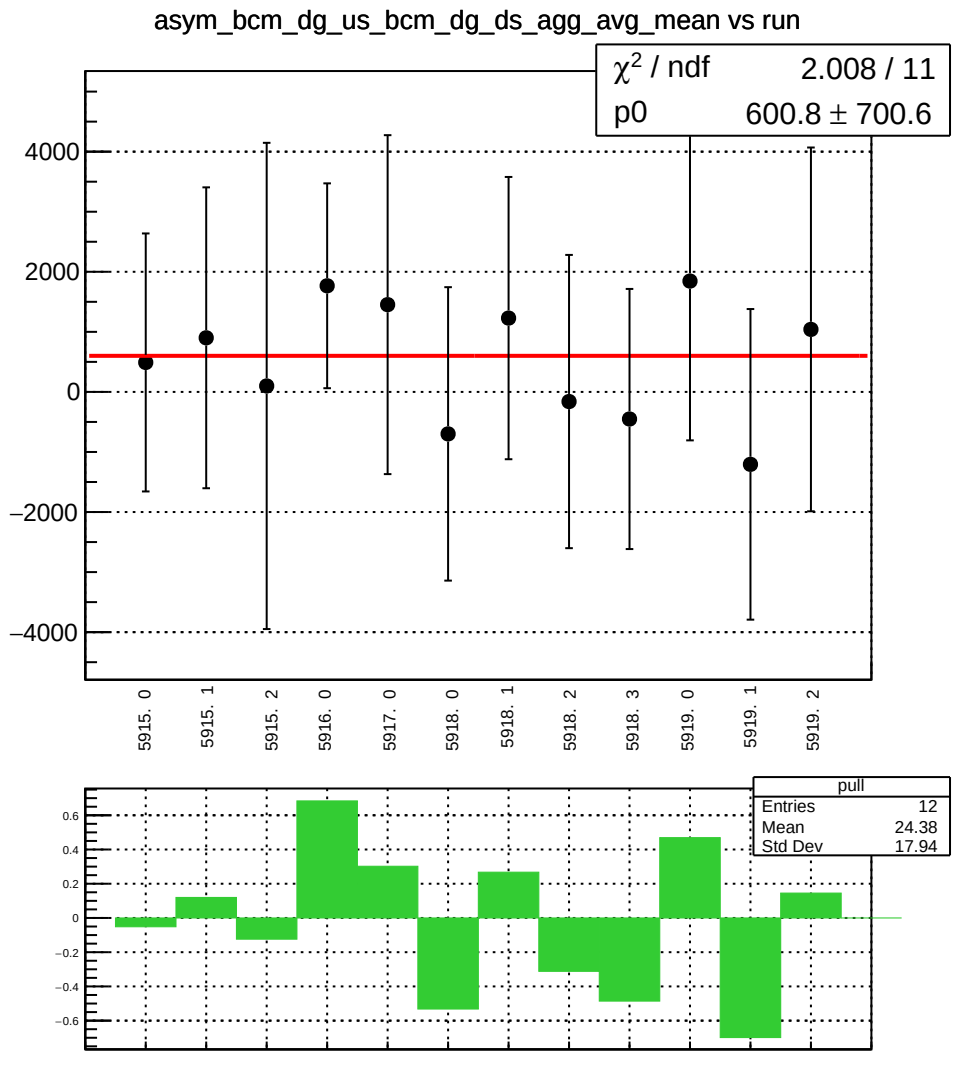

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 306.4 / 11
p0 23.25 ± 0.04444
25.5
25
24.5
24
23.5
23
22.5
22
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

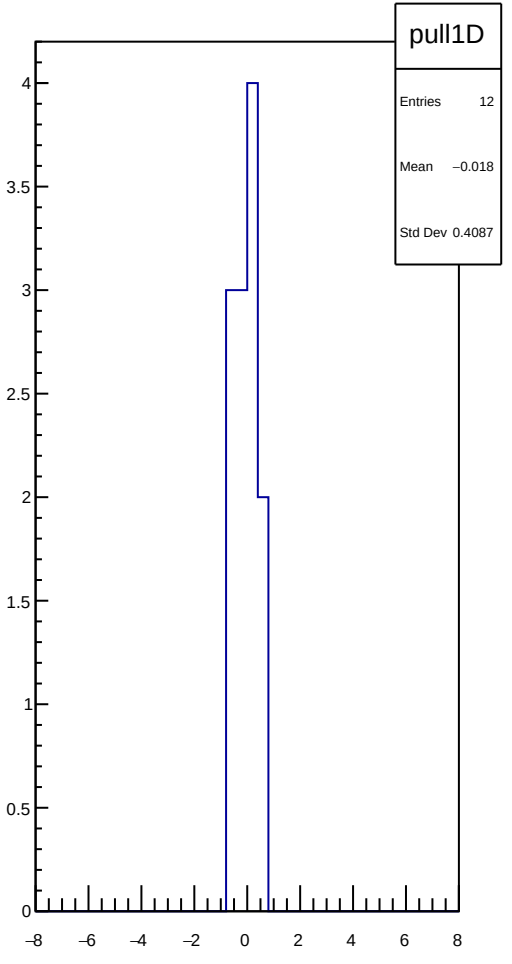

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 1.948 / 11
p0 451.9 ± 688.6
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.82
Std Dev 21.25
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.01685
Std Dev 0.4026
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

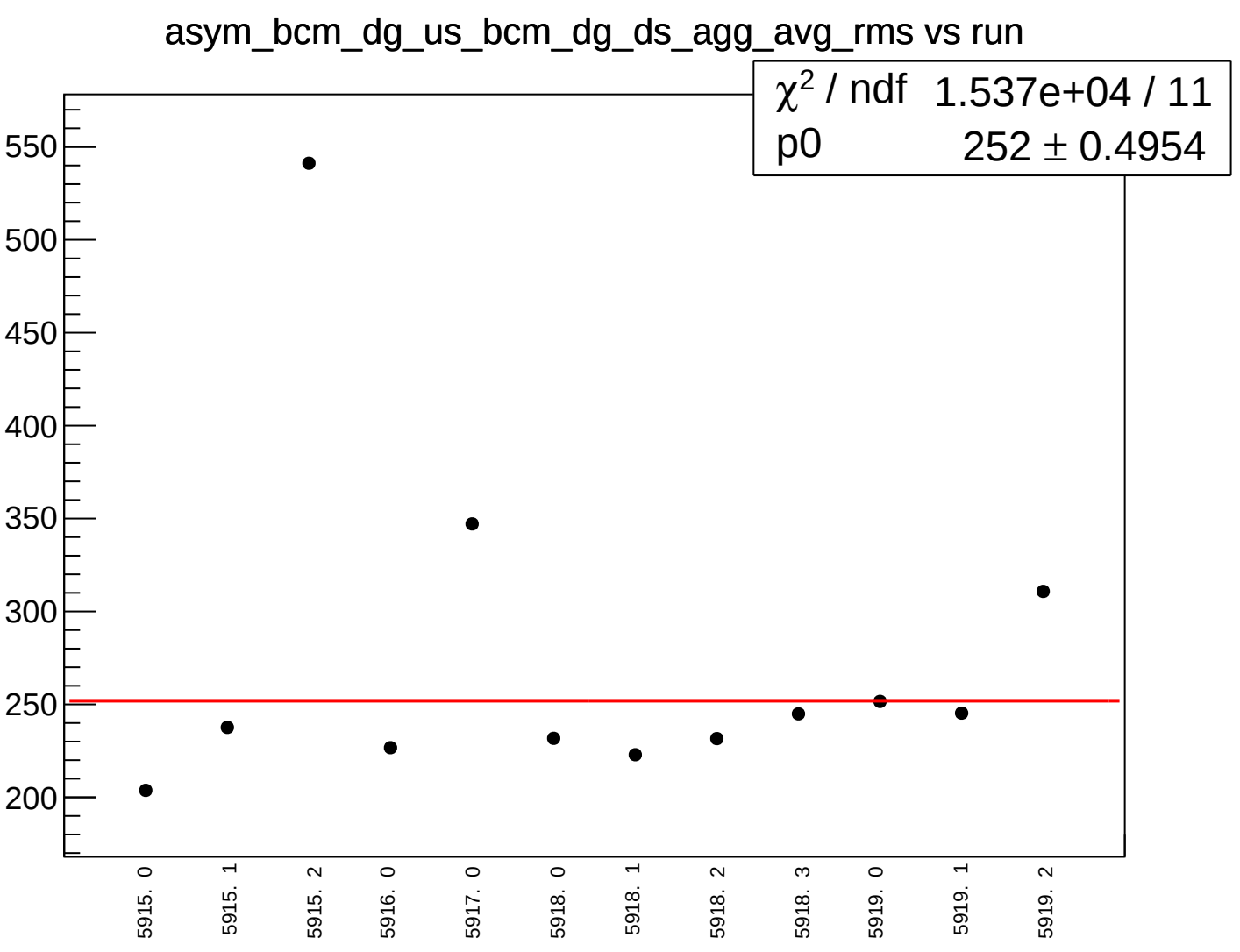

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.539e+04 / 11
p0 247.6 ± 0.4869
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

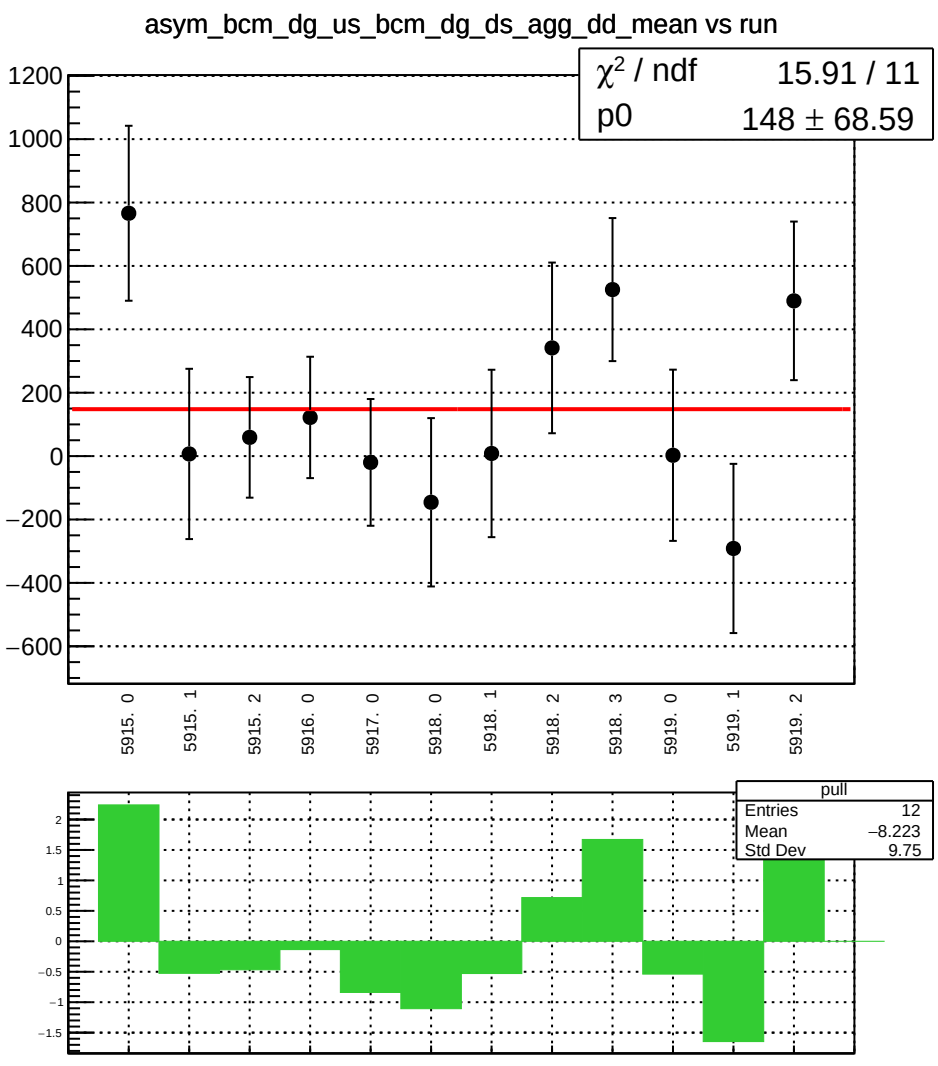

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 15.78 / 11
p0 7.929 ± 48.4
400
200
0
−200
−400
−600
−800
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −13.52
Std Dev 16.92
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 12
Mean −0.05763
Std Dev 1.145
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

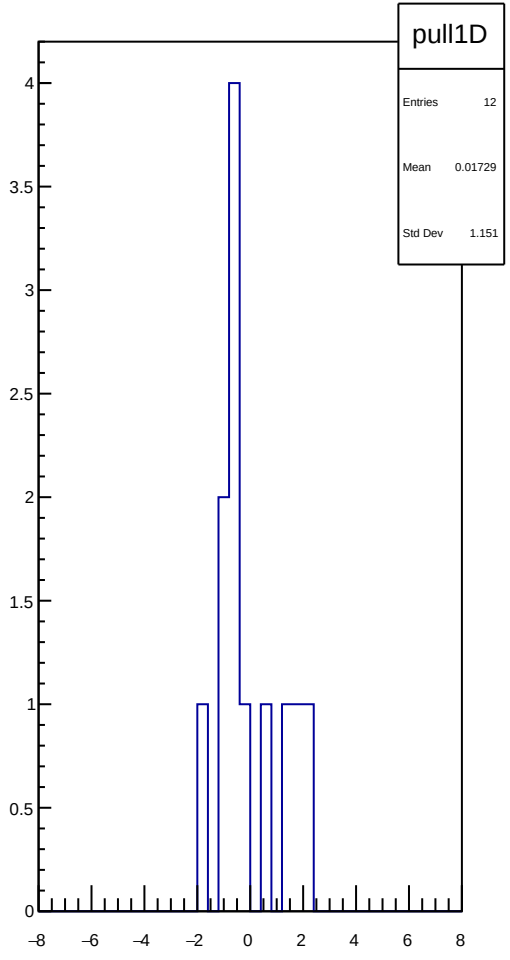

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 371.7 / 11
p0 17.9 ± 0.03422
19.5
19
18.5
18
17.5
17
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

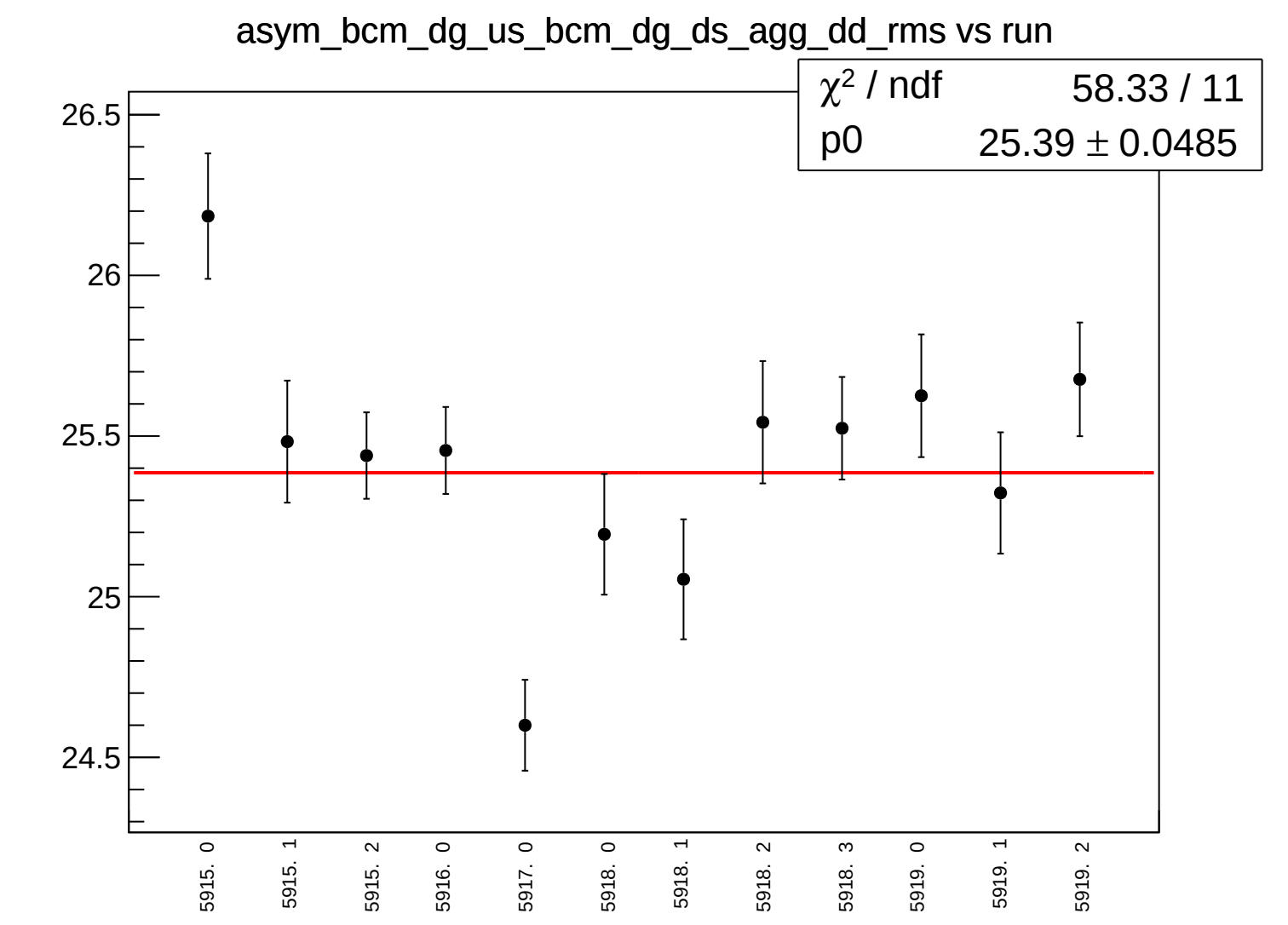

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 2.008 / 11
p0 600.8 ± 700.6
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 24.38
Std Dev 17.94
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

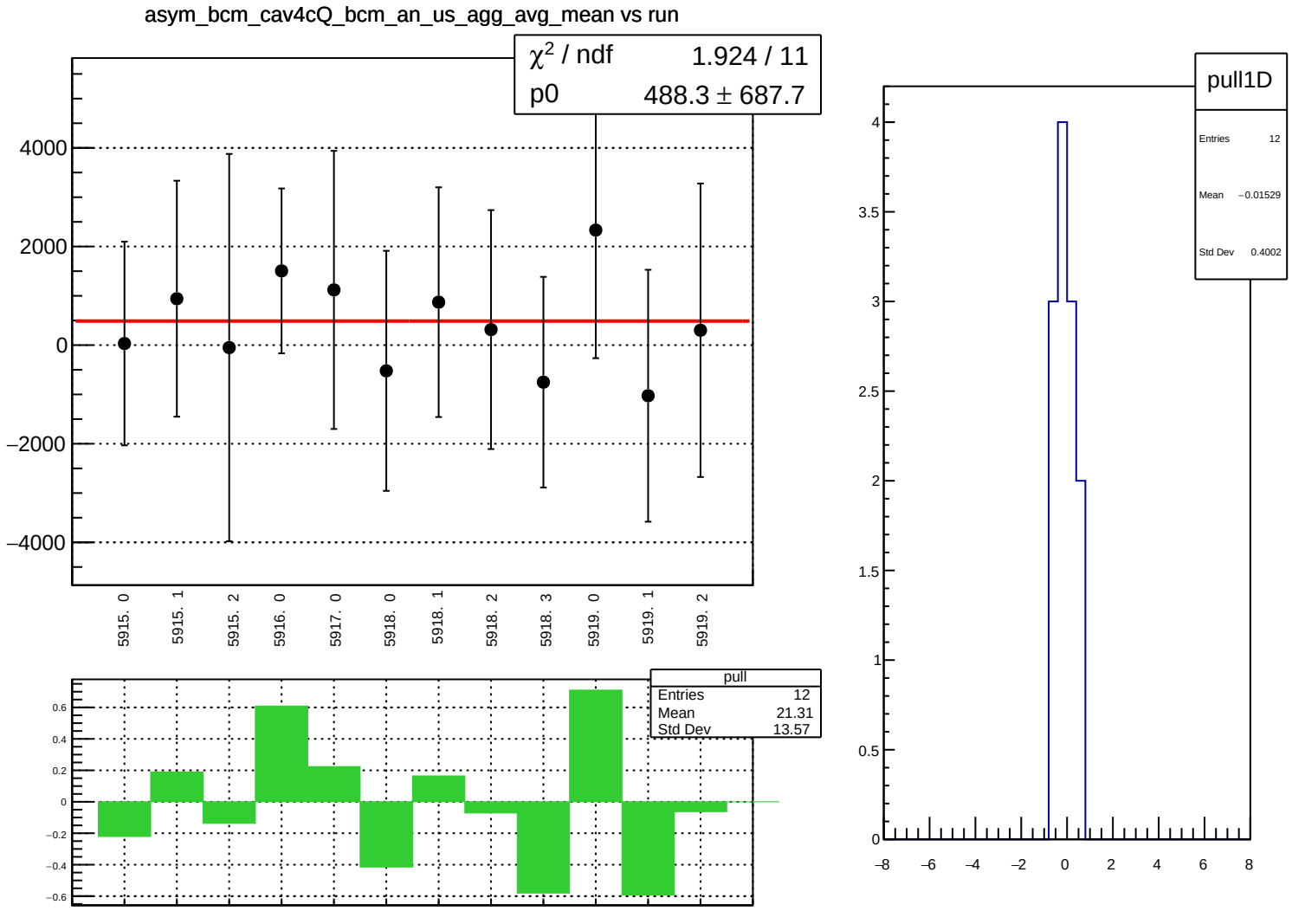

pull1D
Entries 12
Mean −0.018
Std Dev 0.4087
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

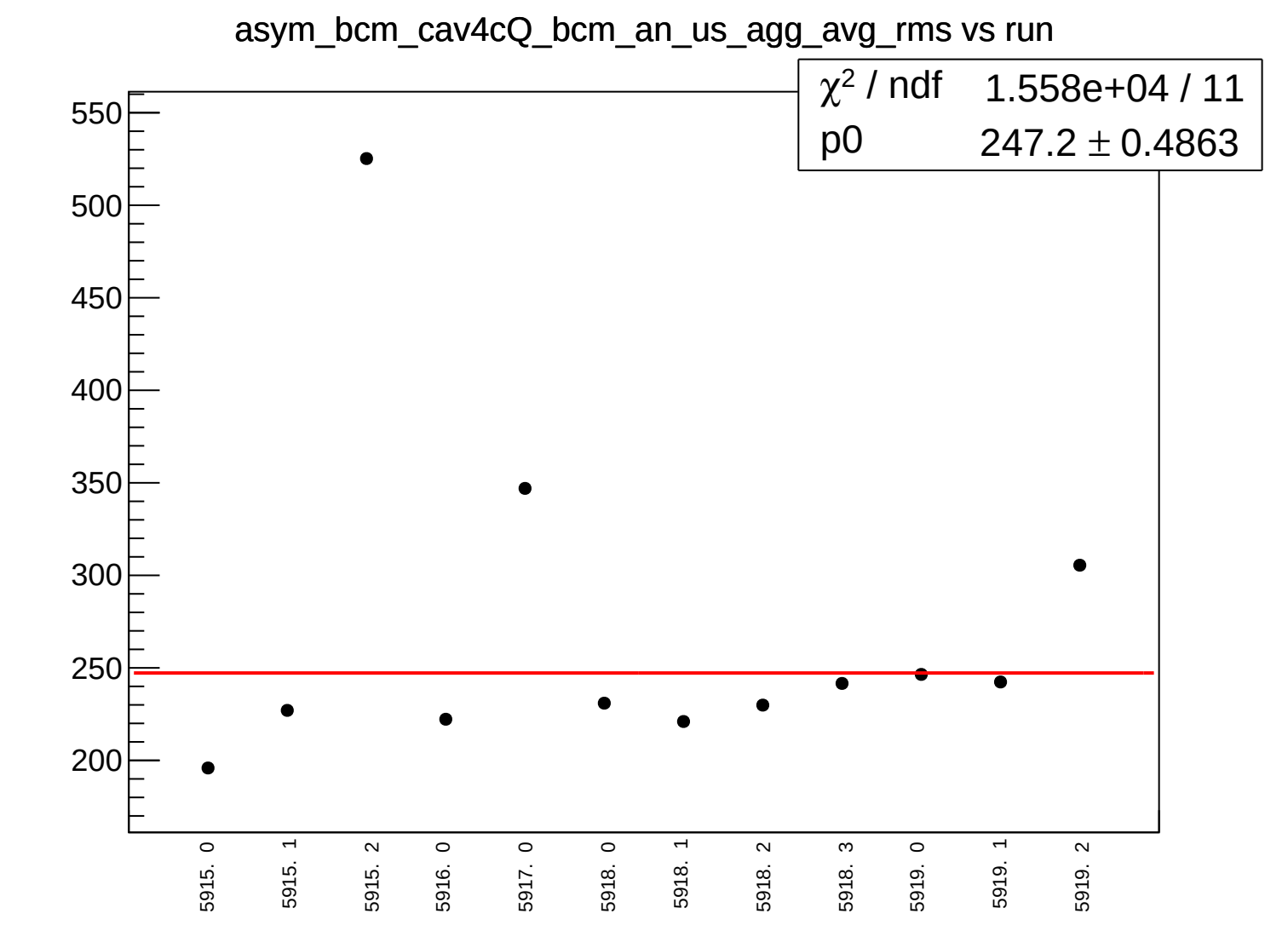

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.537e+04 / 11
p0 252 ± 0.4954
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

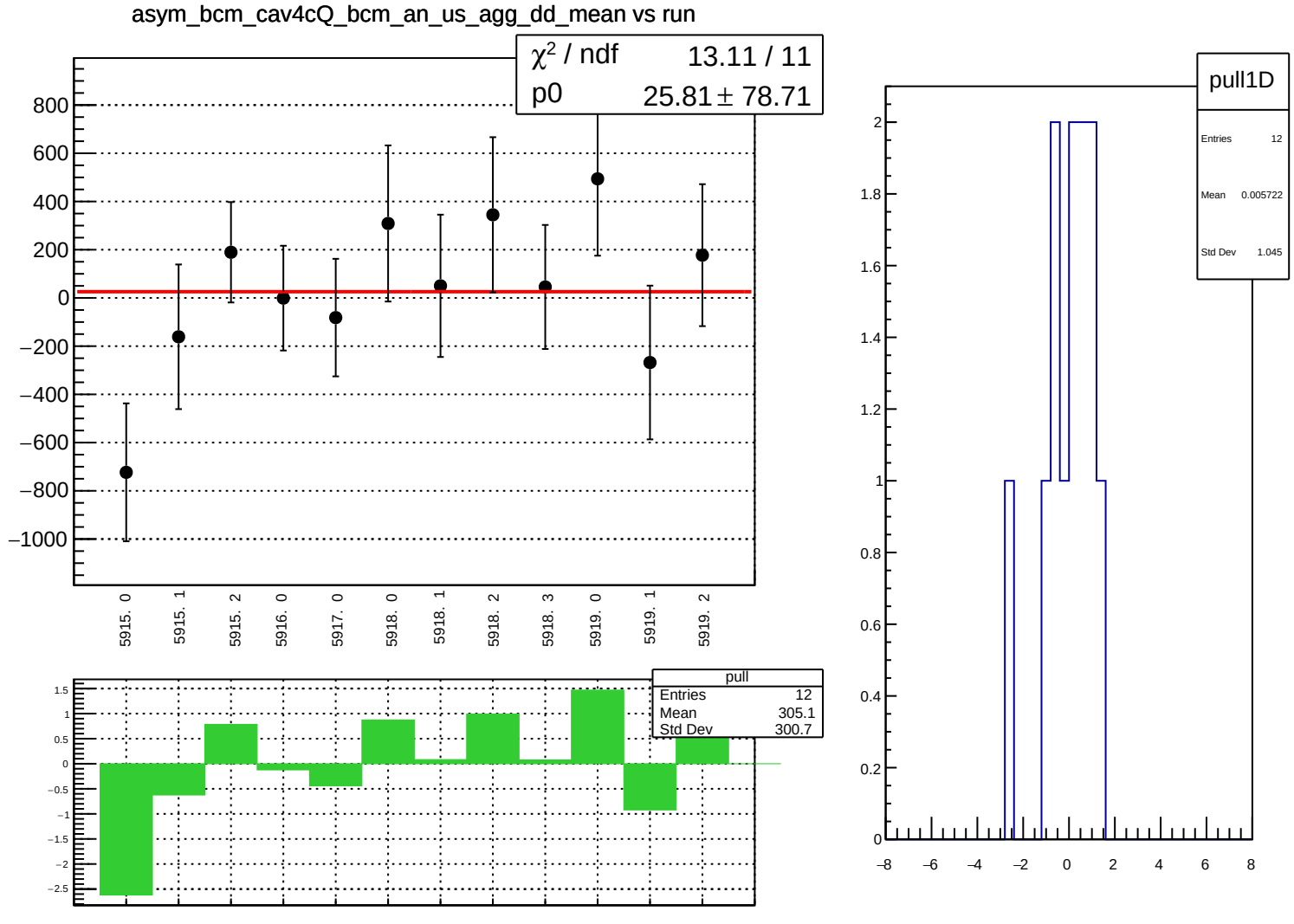

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 15.91 / 11
p0 148 ± 68.59
1200
1000
800
600
400
200
0
−200
−400
−600
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −8.223
Std Dev 9.75
2
1.5
1
0.5
0
−0.5
−1
−1.5

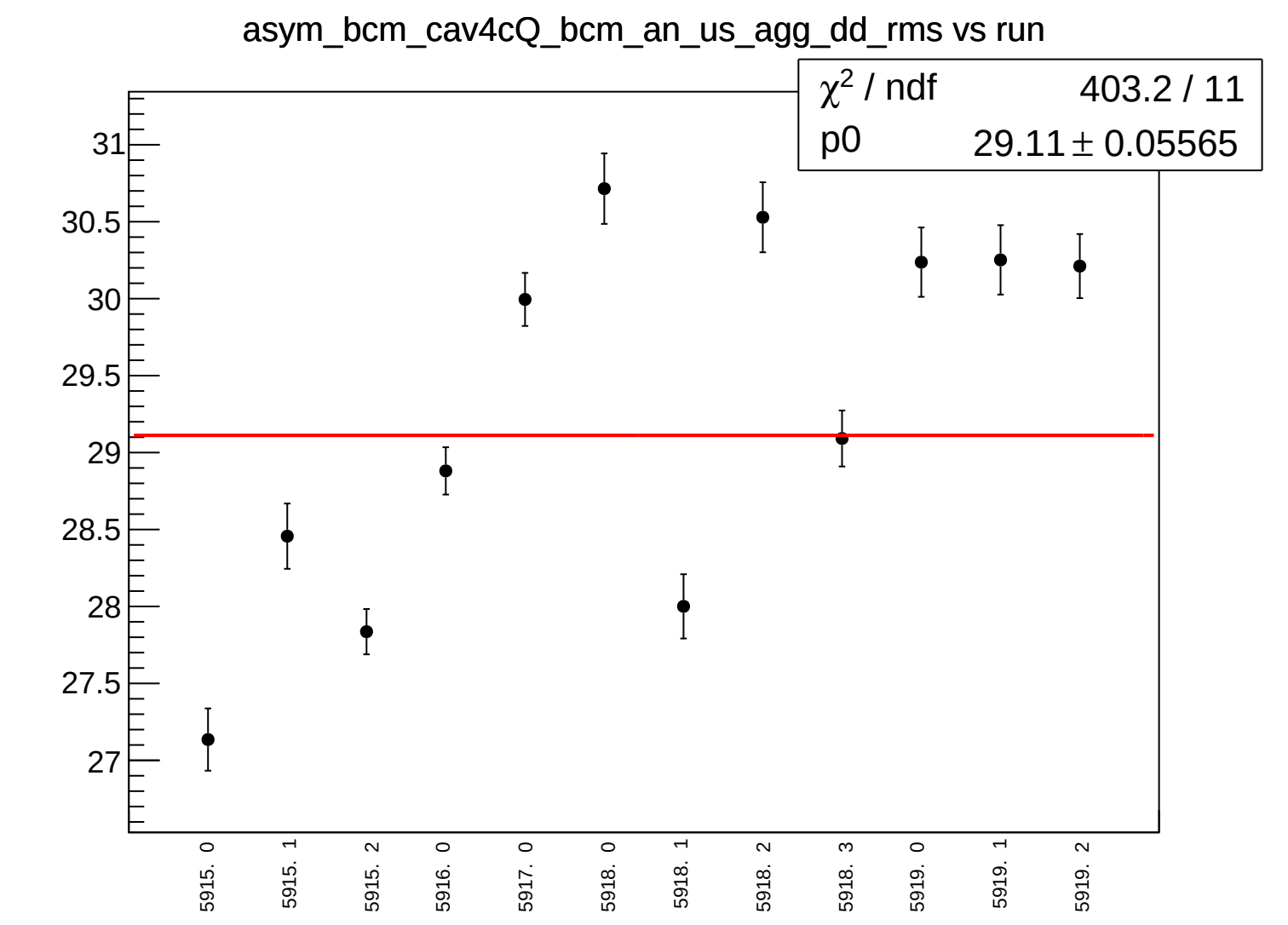

pull1D
Entries 12
Mean 0.01729
Std Dev 1.151
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

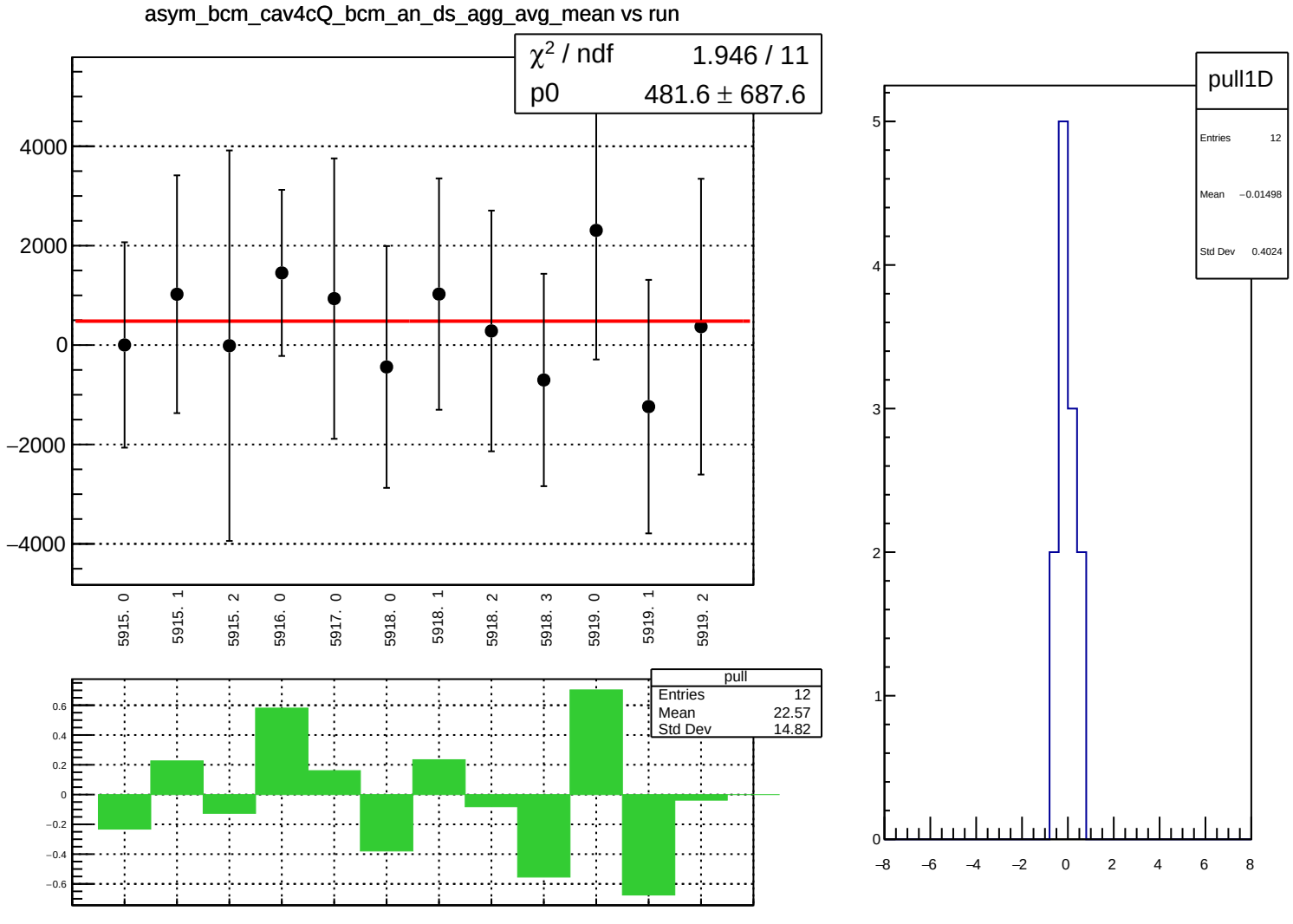

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 58.33 / 11
p0 25.39 ± 0.0485
26.5
26
25.5
25
24.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

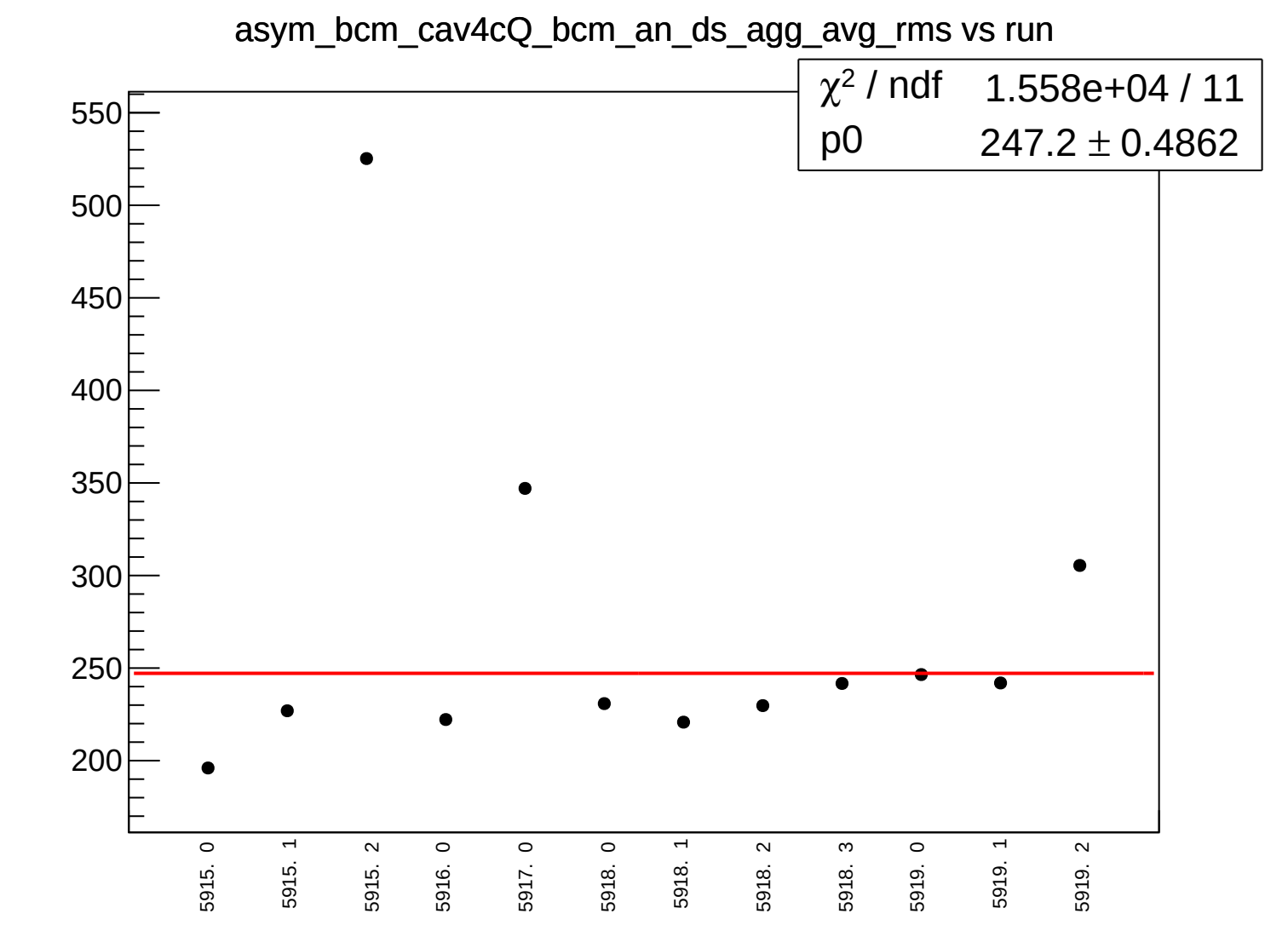

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 1.924 / 11
p0 488.3 ± 687.7
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 21.31
Std Dev 13.57
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.01529
Std Dev 0.4002
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

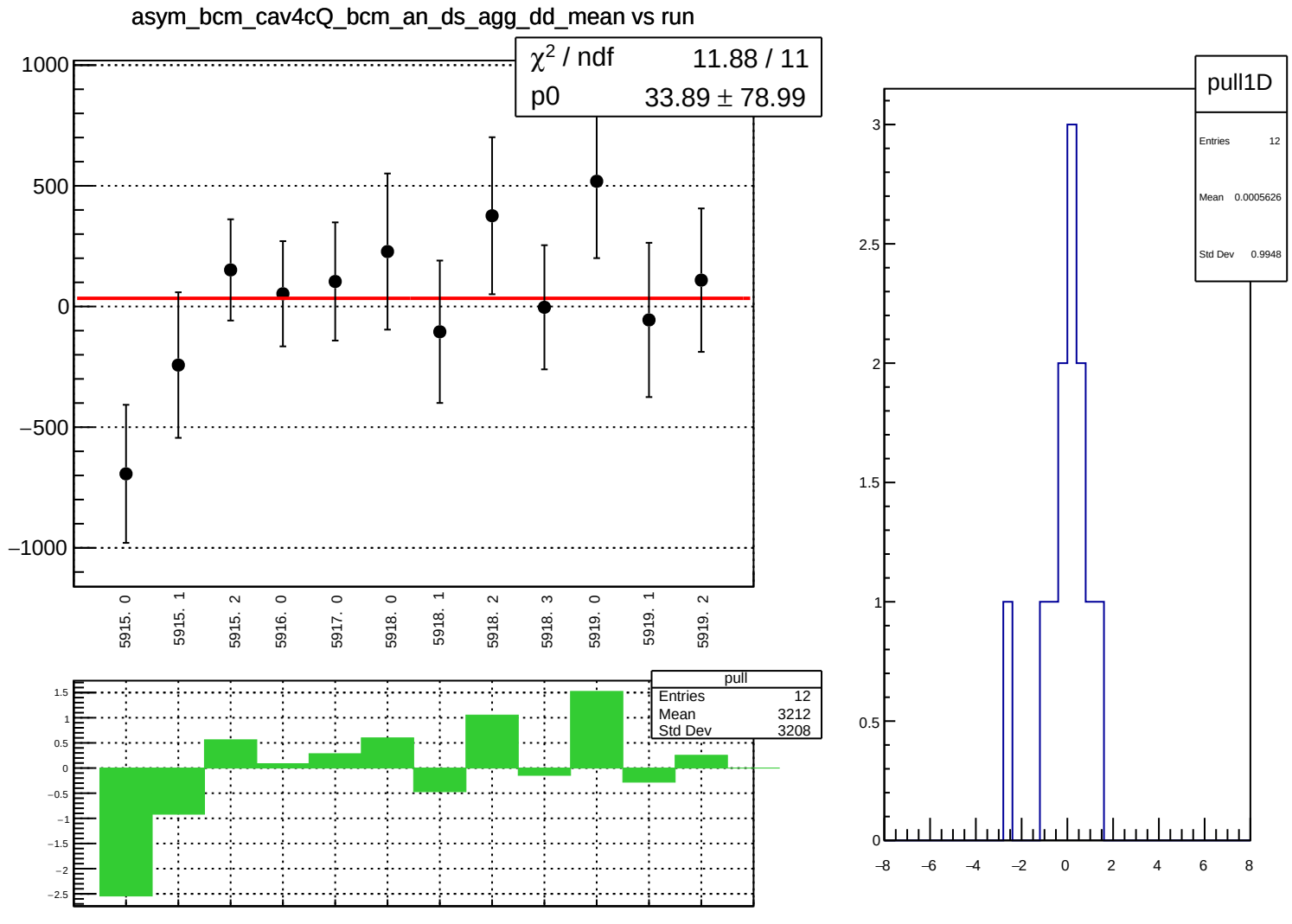

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.558e+04 / 11
p0 247.2 ± 0.4863
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

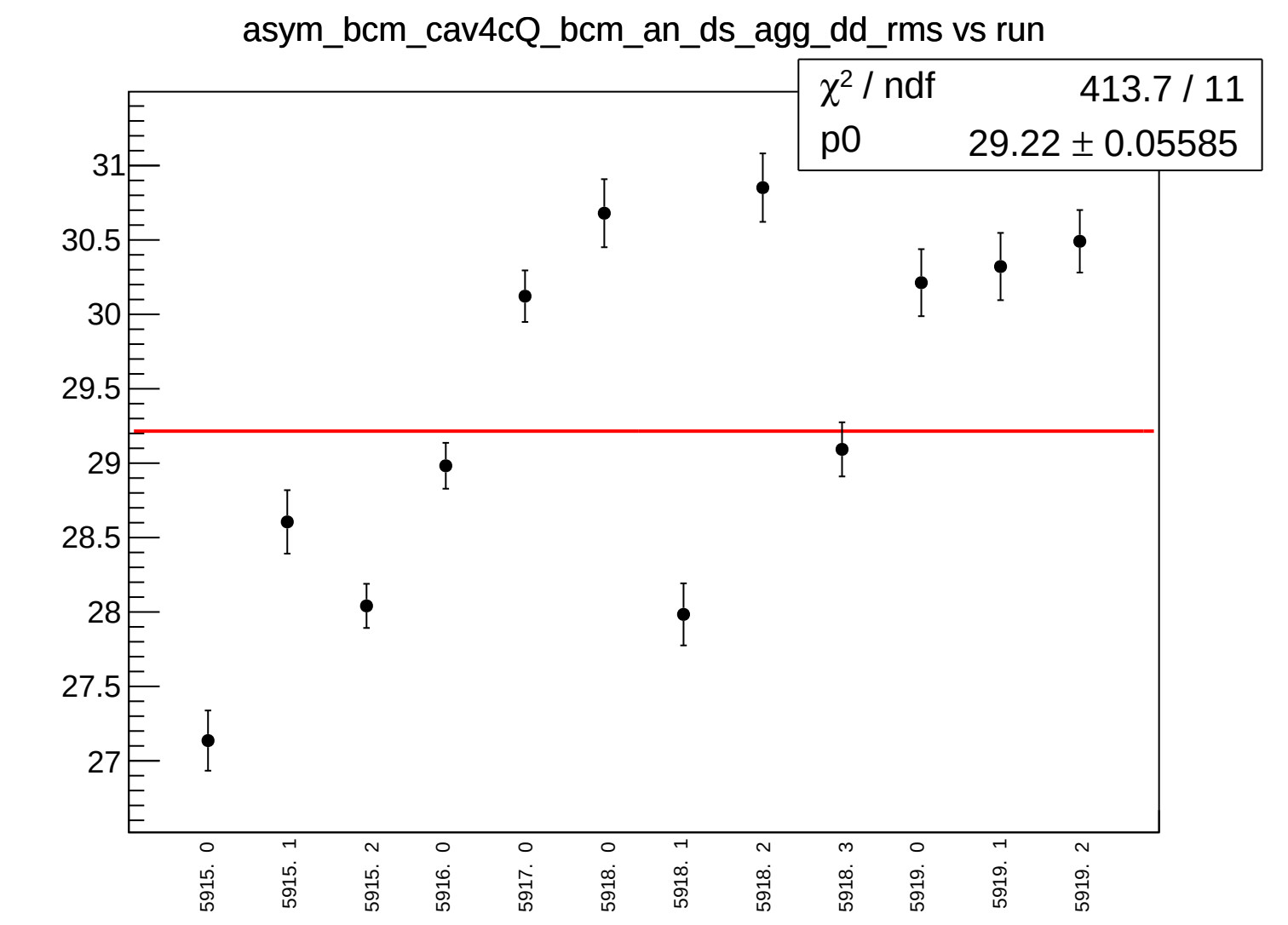

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 13.11 / 11
p0 25.81 ± 78.71
800
600
400
200
0
−200
−400
−600
−800
−1000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 305.1
Std Dev 300.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean 0.005722
Std Dev 1.045
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

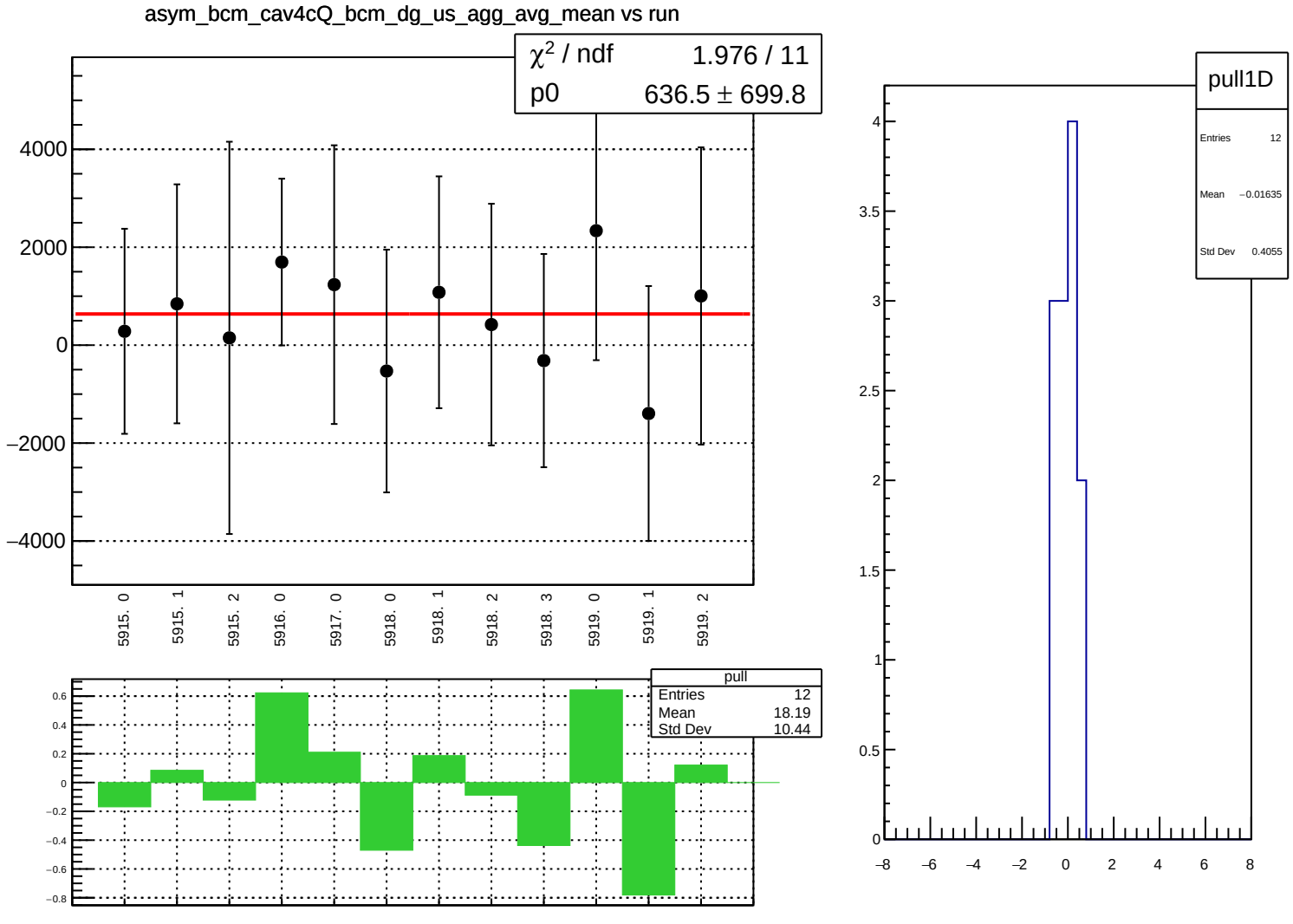

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 403.2 / 11
p0 29.11 ± 0.05565
31
30.5
30
29.5
29
28.5
28
27.5
27
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

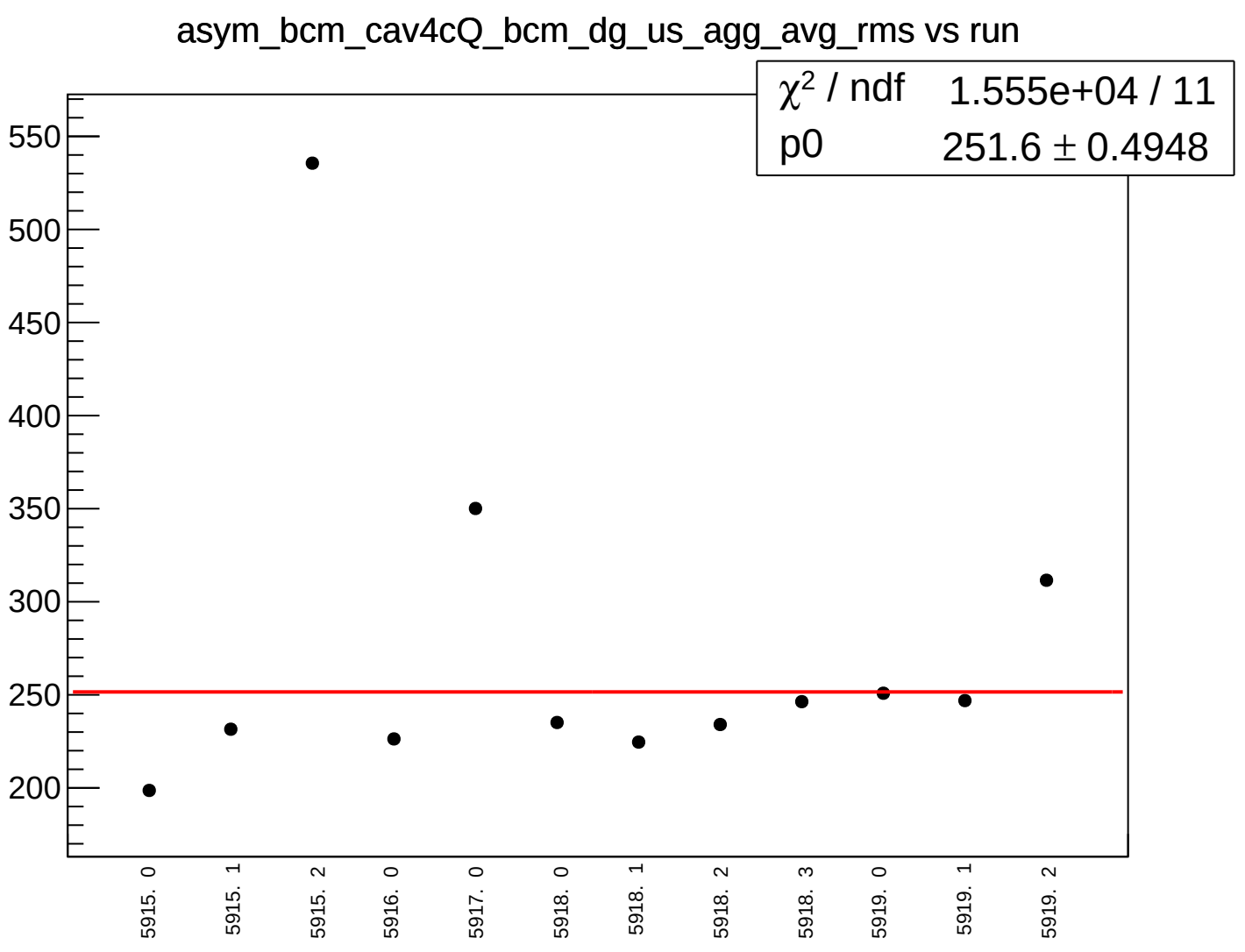

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 1.946 / 11
p0 481.6 ± 687.6
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.57
Std Dev 14.82
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.01498
Std Dev 0.4024
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

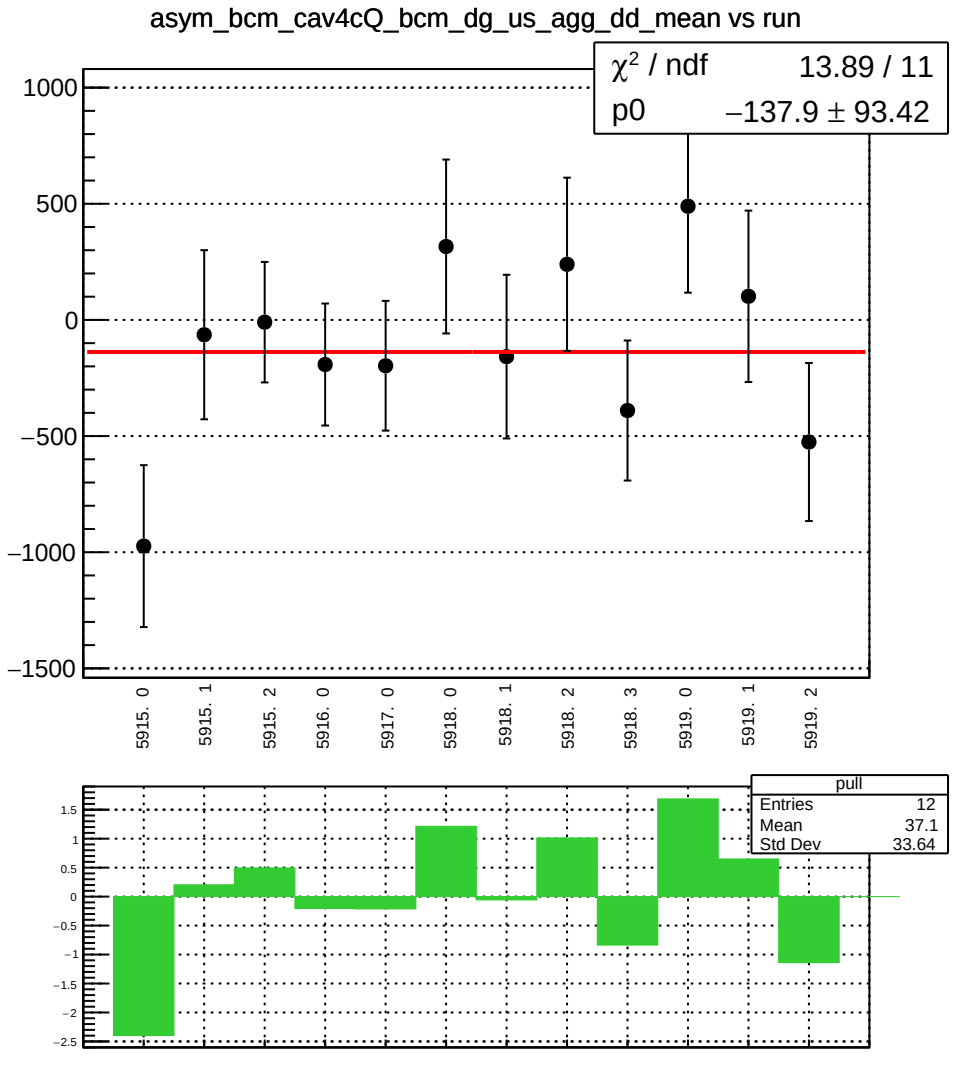

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.558e+04 / 11
p0 247.2 ± 0.4862
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

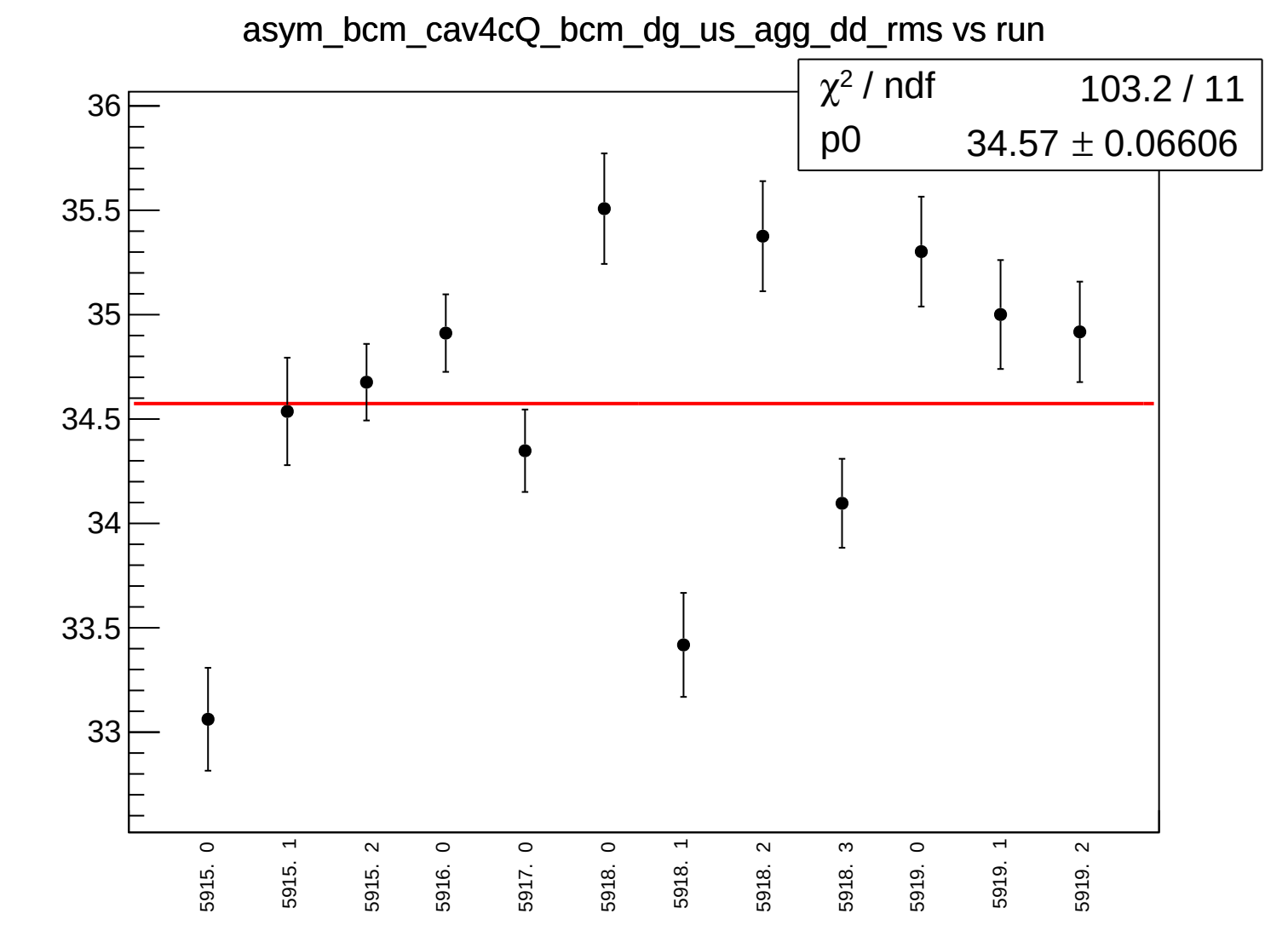

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 11.88 / 11
p0 33.89 ± 78.99
1000
500
0
−500
−1000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3212
Std Dev 3208
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean 0.0005626
Std Dev 0.9948
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

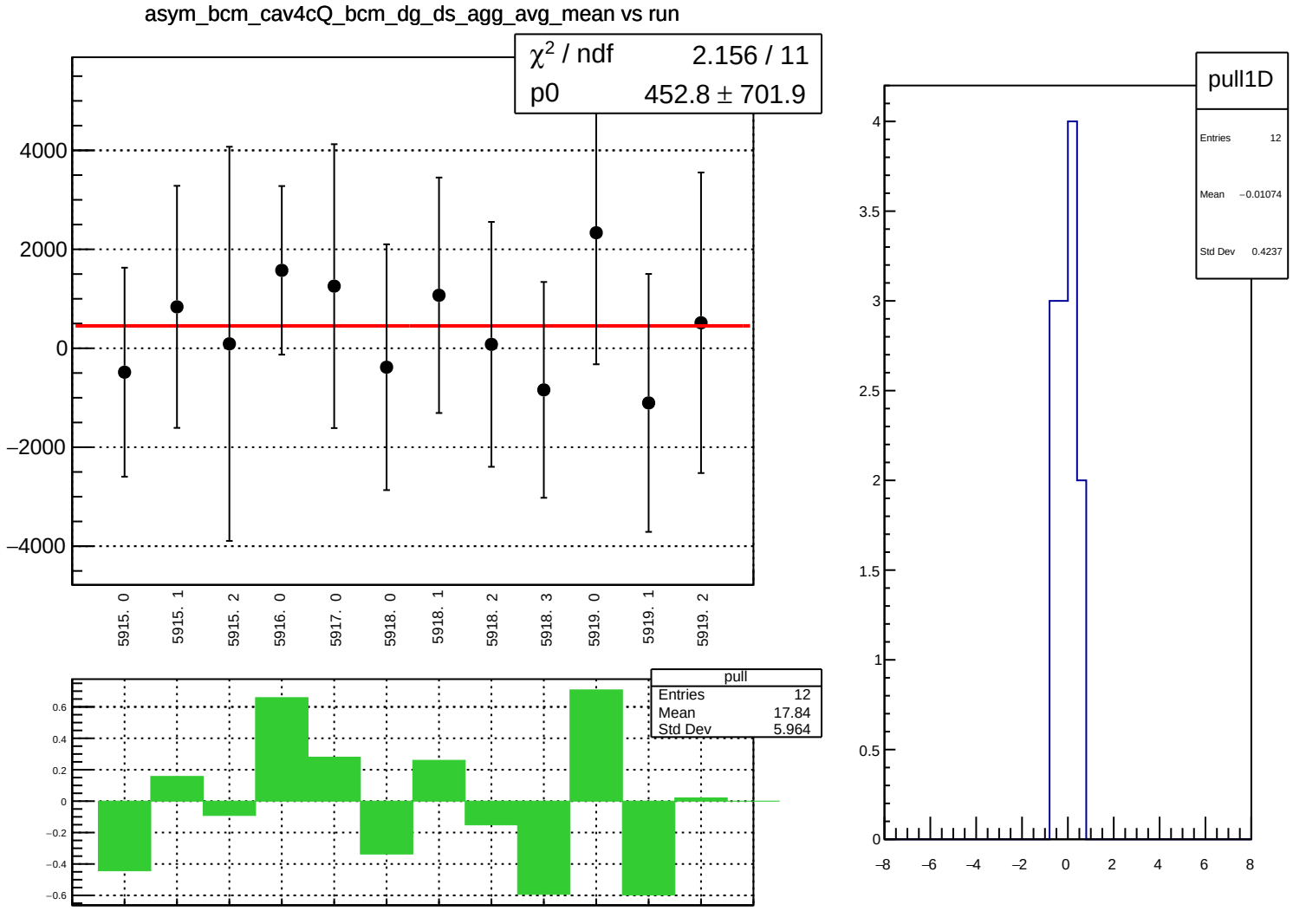

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 413.7 / 11
p0 29.22 ± 0.05585
31
30.5
30
29.5
29
28.5
28
27.5
27
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

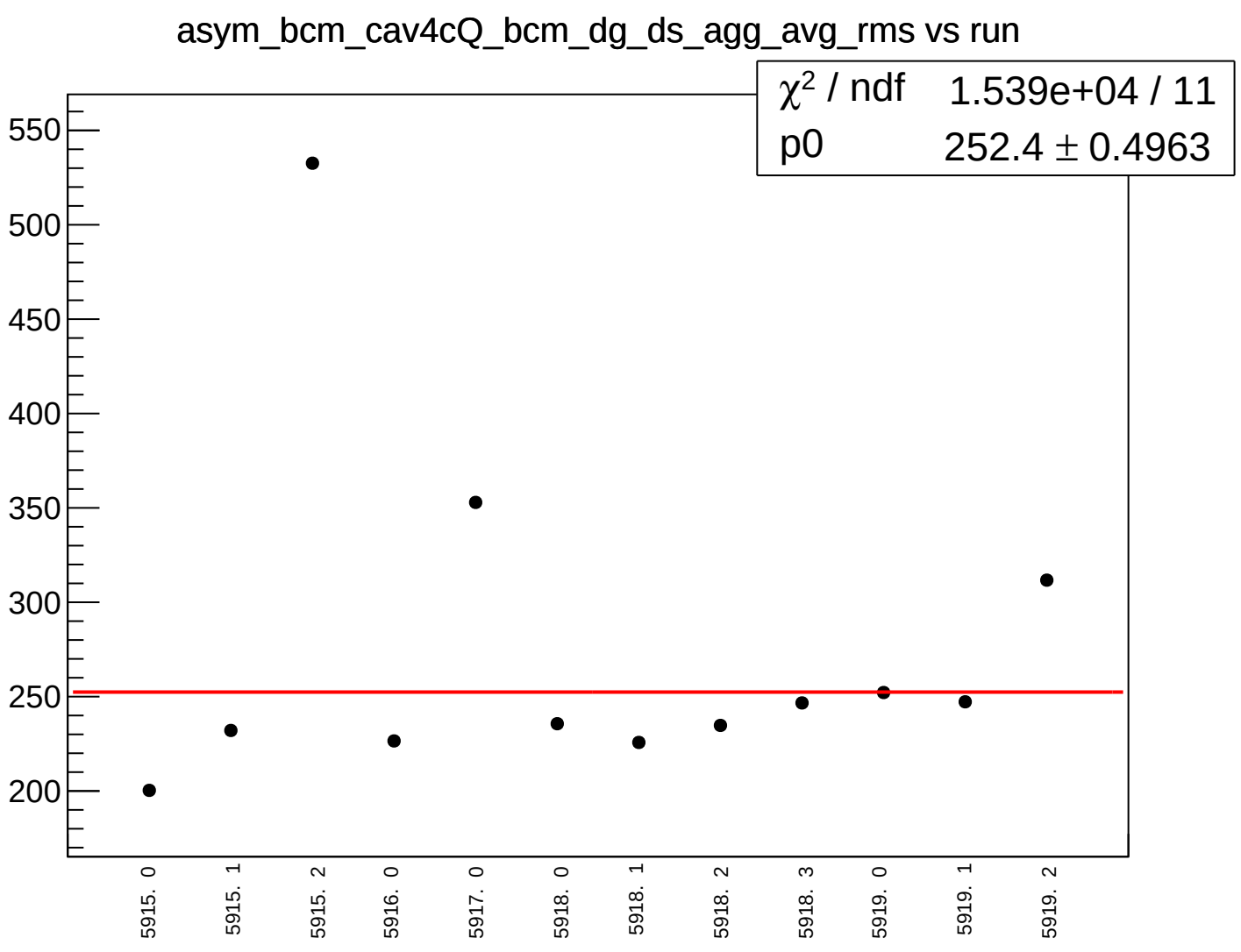

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 1.976 / 11
p0 636.5 ± 699.8
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 18.19
Std Dev 10.44
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean −0.01635
Std Dev 0.4055
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

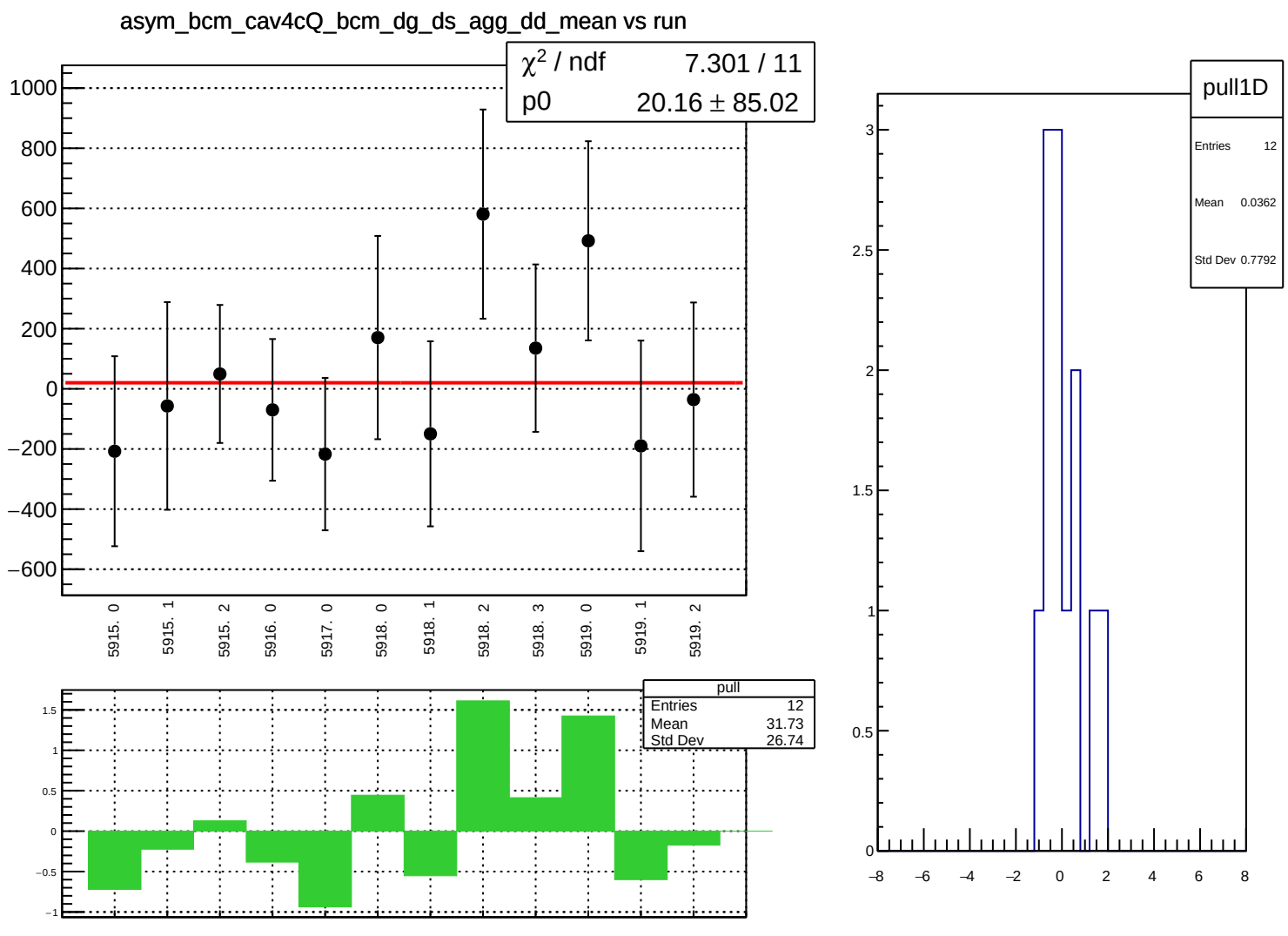

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.555e+04 / 11
p0 251.6 ± 0.4948
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

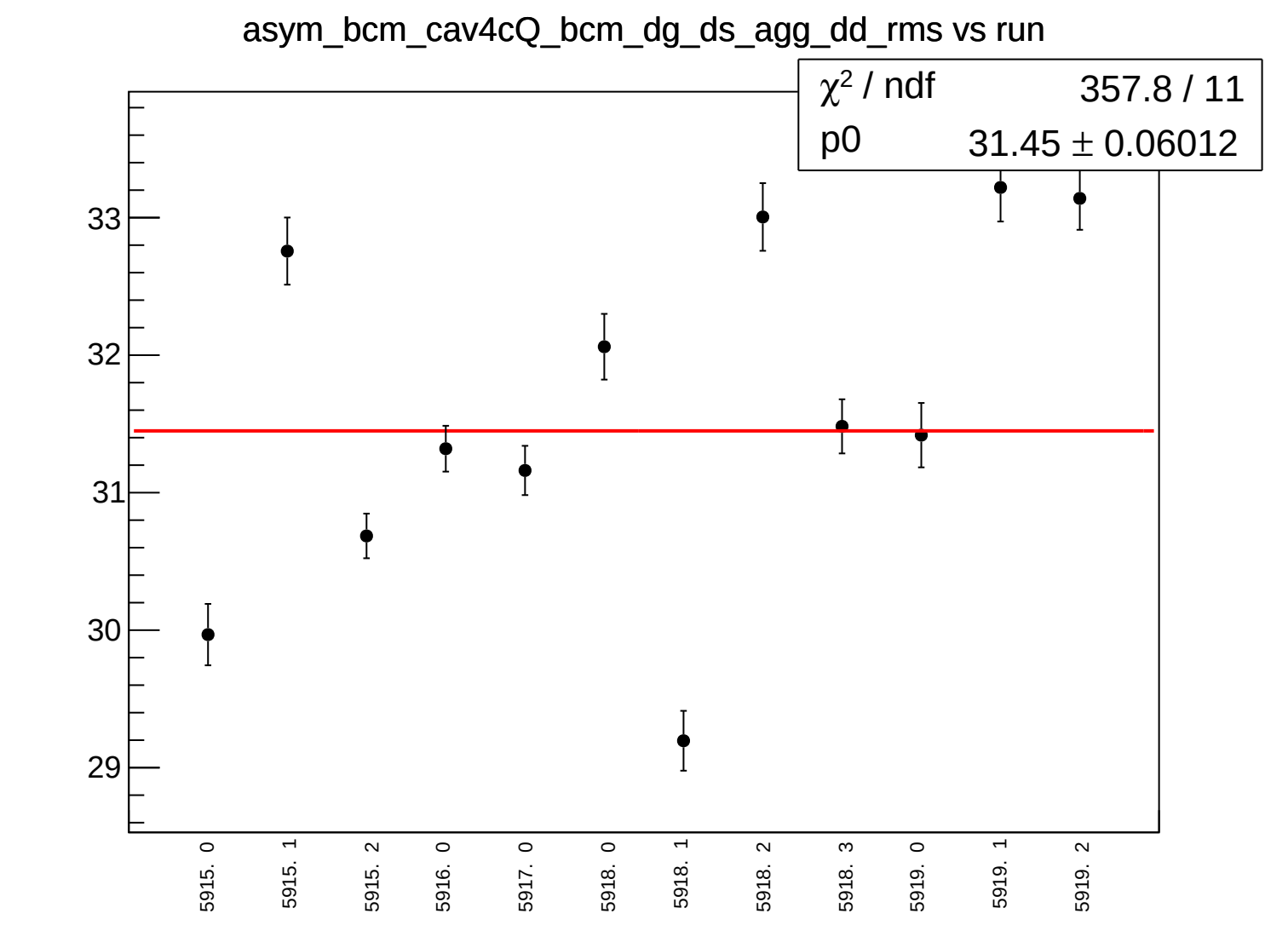

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 13.89 / 11
p0 −137.9 ± 93.42
1000
500
0
−500
−1000
−1500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 37.1
Std Dev 33.64
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean 0.0341
Std Dev 1.075
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

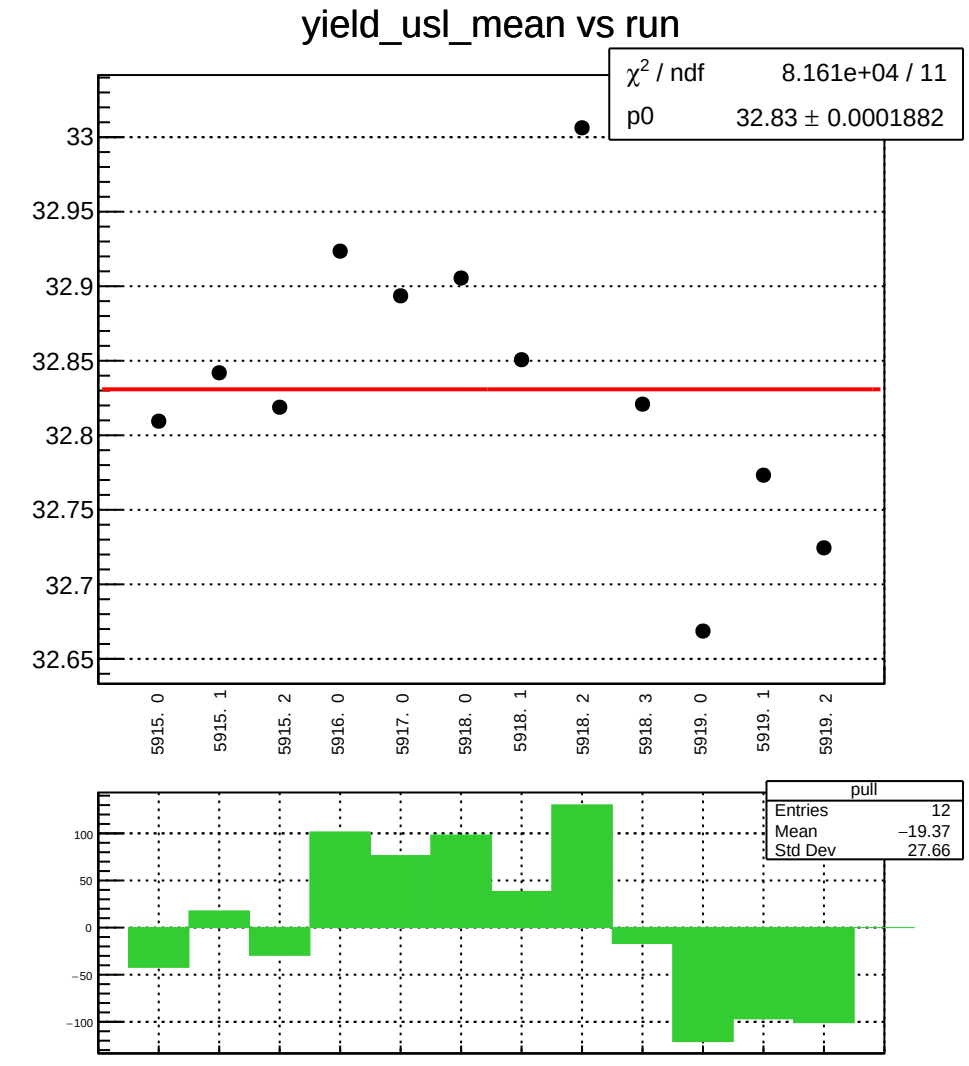

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 103.2 / 11
p0 34.57 ± 0.06606
36
35.5
35
34.5
34
33.5
33
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

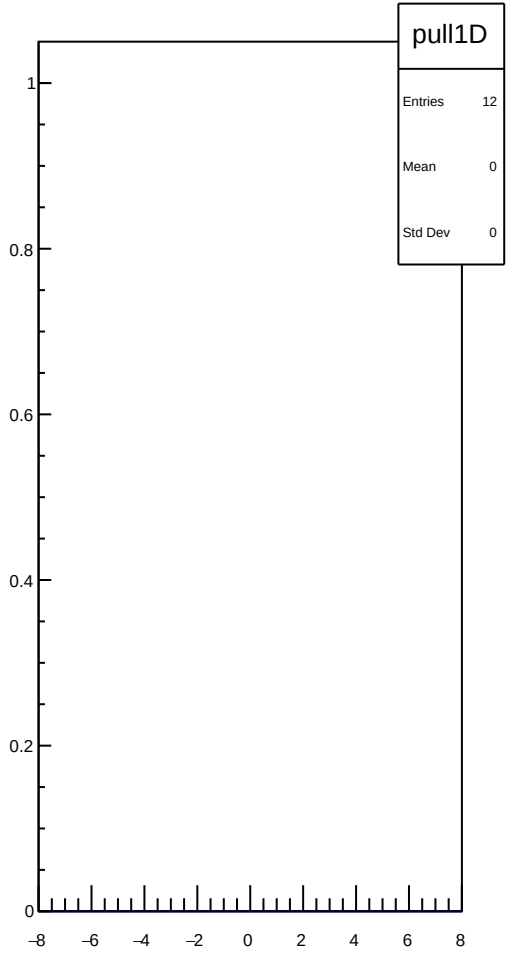

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 2.156 / 11
p0 452.8 ± 701.9
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 17.84
Std Dev 5.964
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.01074
Std Dev 0.4237
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

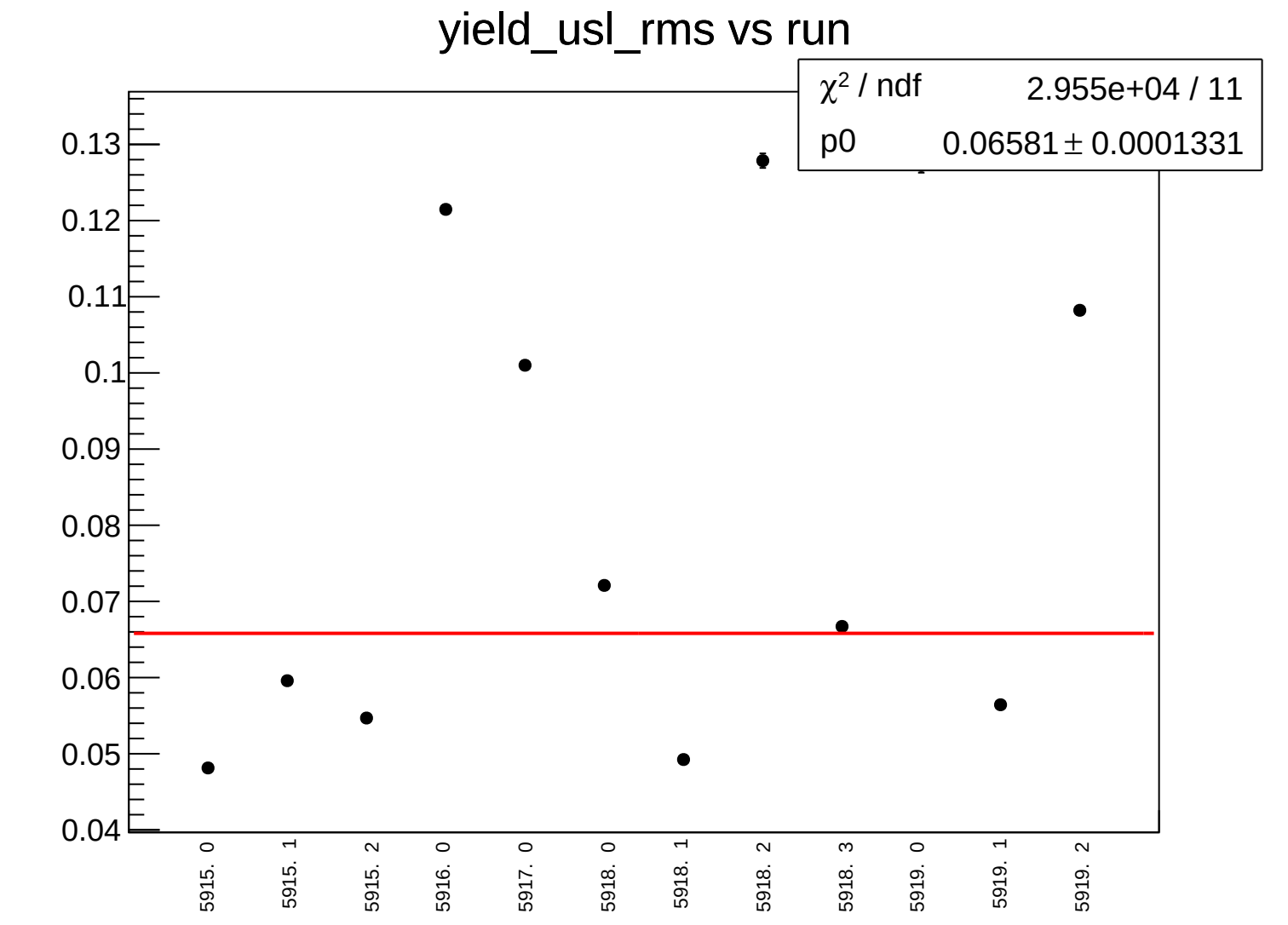

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.539e+04 / 11
p0 252.4 ± 0.4963
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

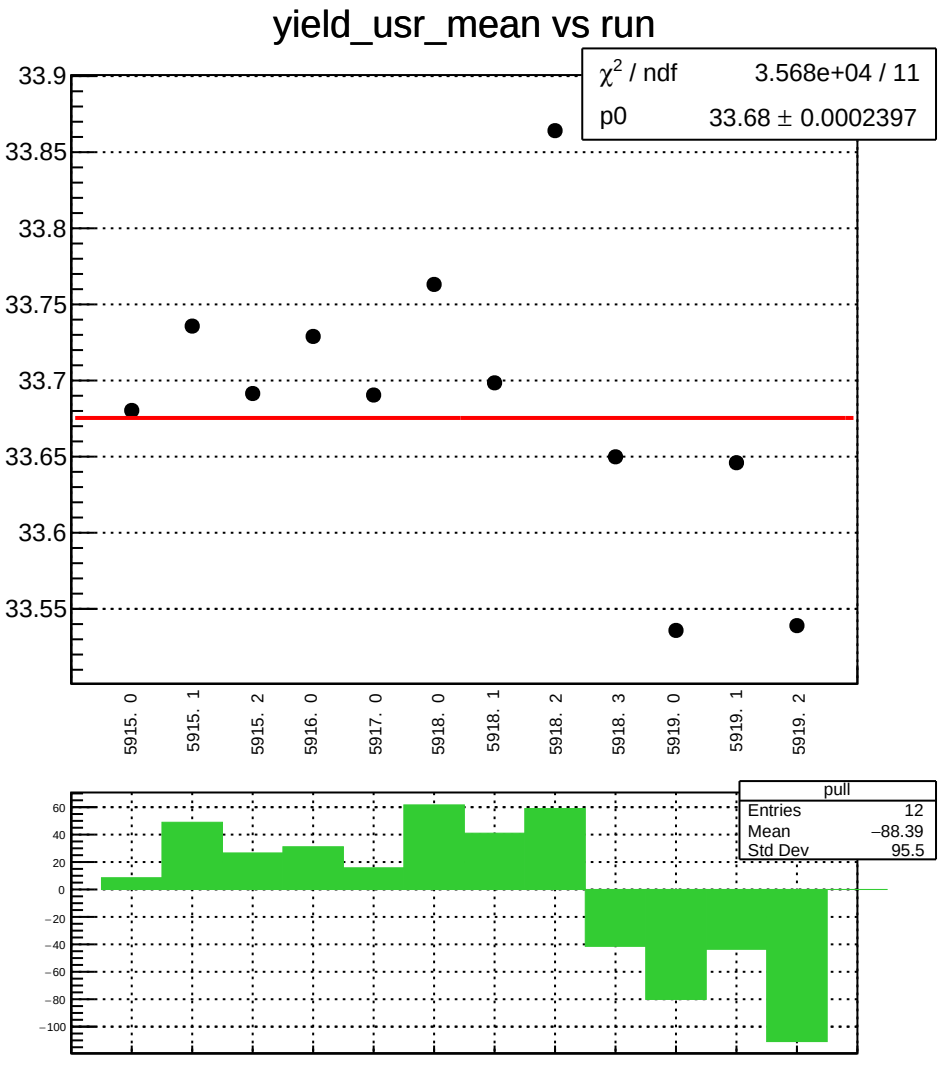

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 7.301 / 11
p0 20.16 ± 85.02
1000
800
600
400
200
0
−200
−400
−600
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 31.73
Std Dev 26.74
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.0362
Std Dev 0.7792
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

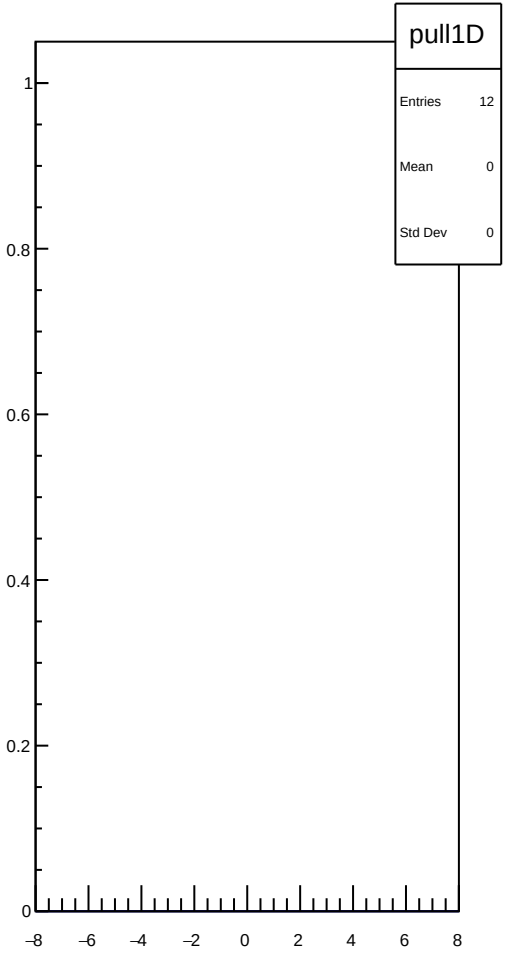

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 357.8 / 11
p0 31.45 ± 0.06012
33
32
31
30
29
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

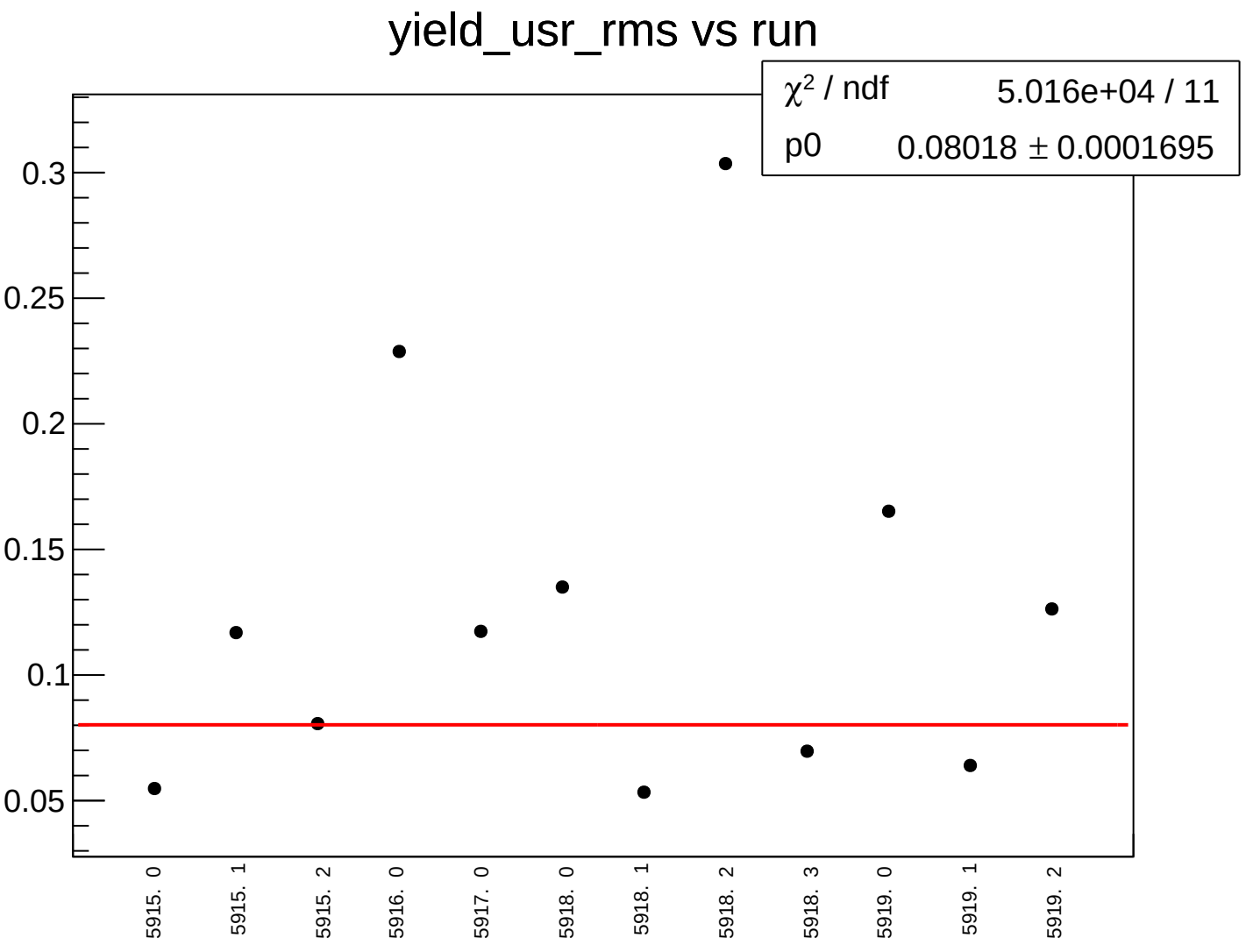

yield_usl_mean vs run
χ² / ndf 8.161e+04 / 11
p0 32.83 ± 0.0001882
33
32.95
32.9
32.85
32.8
32.75
32.7
32.65
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −19.37
Std Dev 27.66
100
50
0
−50
−100

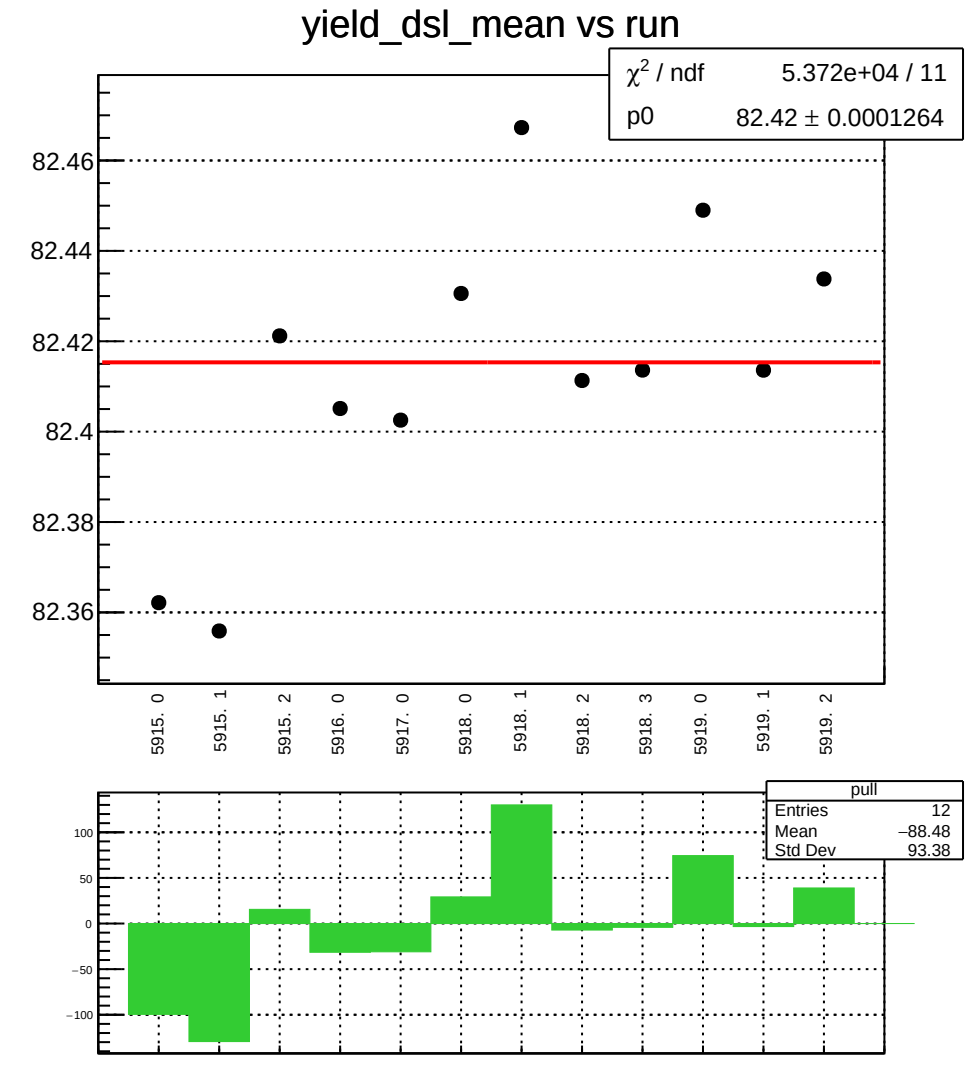

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

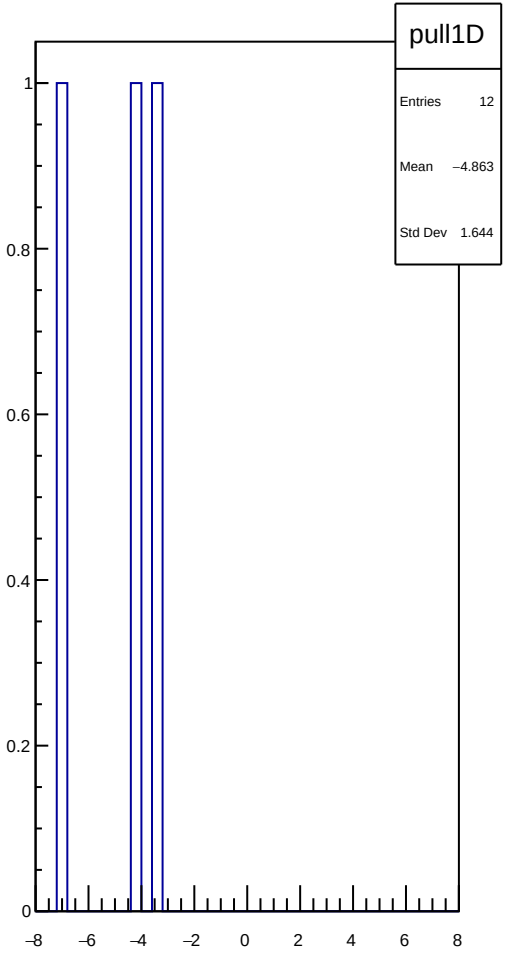

yield_usl_rms vs run
χ² / ndf 2.955e+04 / 11
p0 0.06581 ± 0.0001331
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

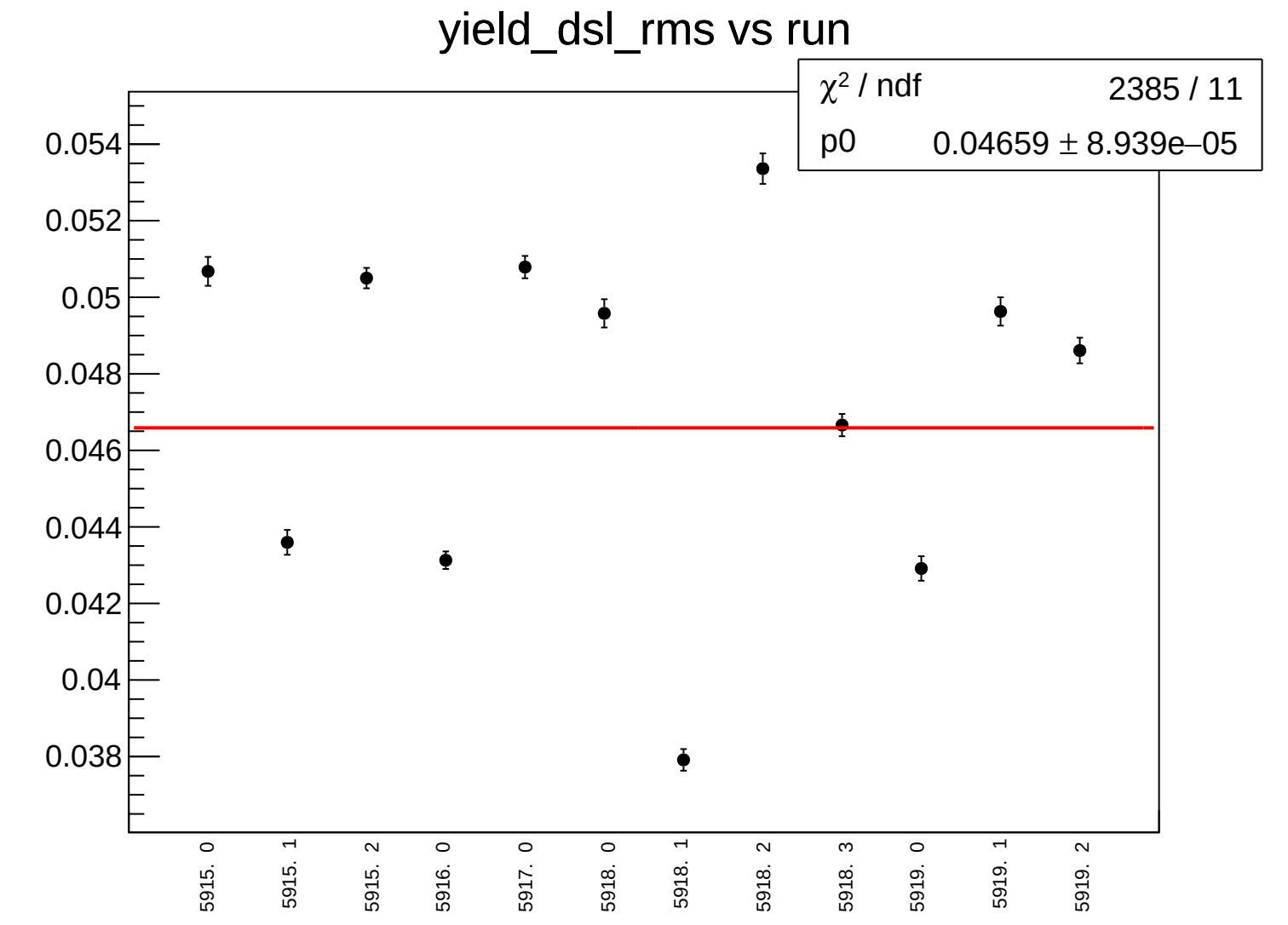

yield_usr_mean vs run
χ² / ndf 3.568e+04 / 11
p0 33.68 ± 0.0002397
33.9
33.85
33.8
33.75
33.7
33.65
33.6
33.55
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −88.39
Std Dev 95.5
60
40
20
0
−20
−40
−60
−80
−100

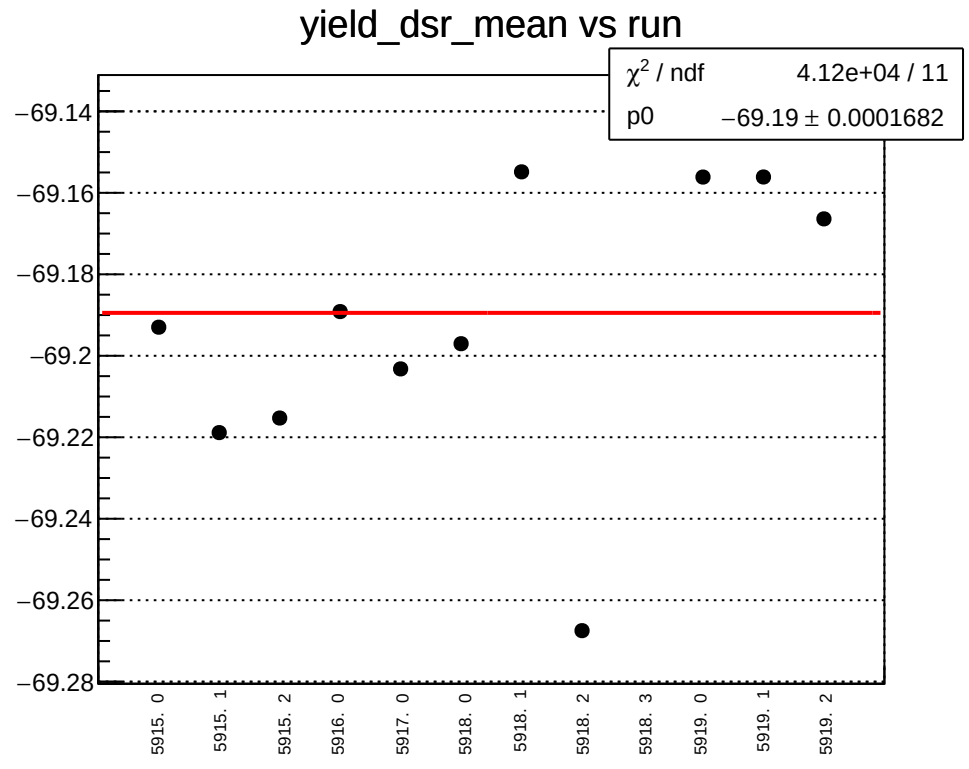

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

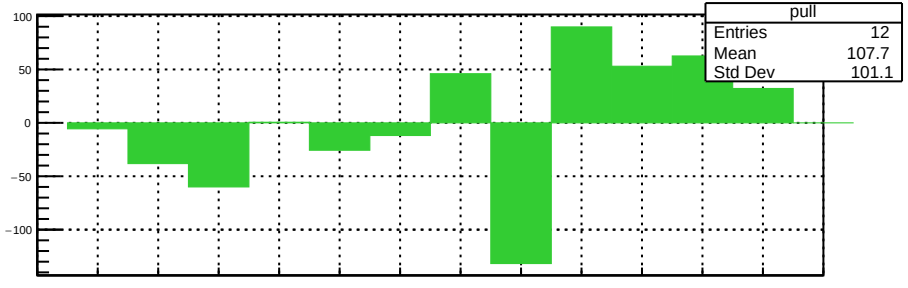

yield_usr_rms vs run
χ² / ndf 5.016e+04 / 11
p0 0.08018 ± 0.0001695
0.3
0.25
0.2
0.15
0.1
0.05
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

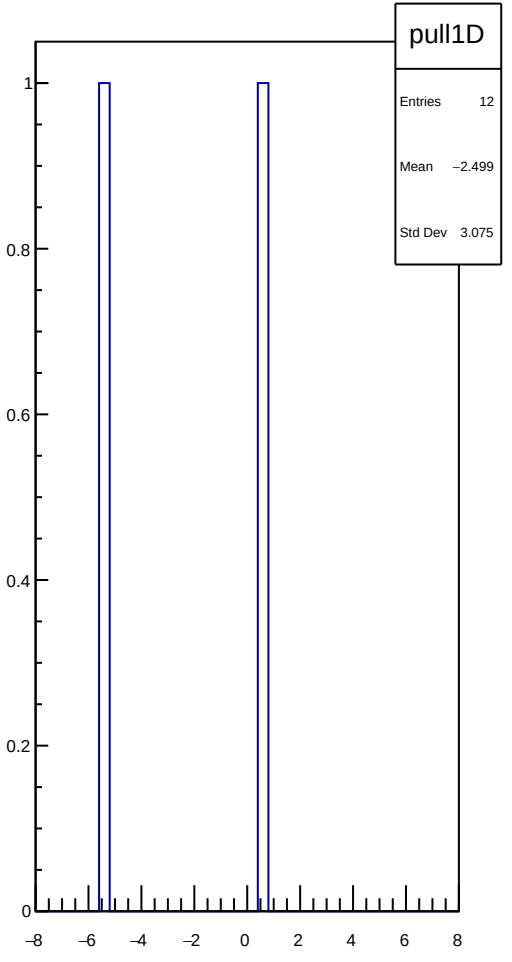

yield_dsl_mean vs run
χ² / ndf 5.372e+04 / 11
p0 82.42 ± 0.0001264
82.46
82.44
82.42
82.4
82.38
82.36
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −88.48
Std Dev 93.38
100
50
0
−50
−100

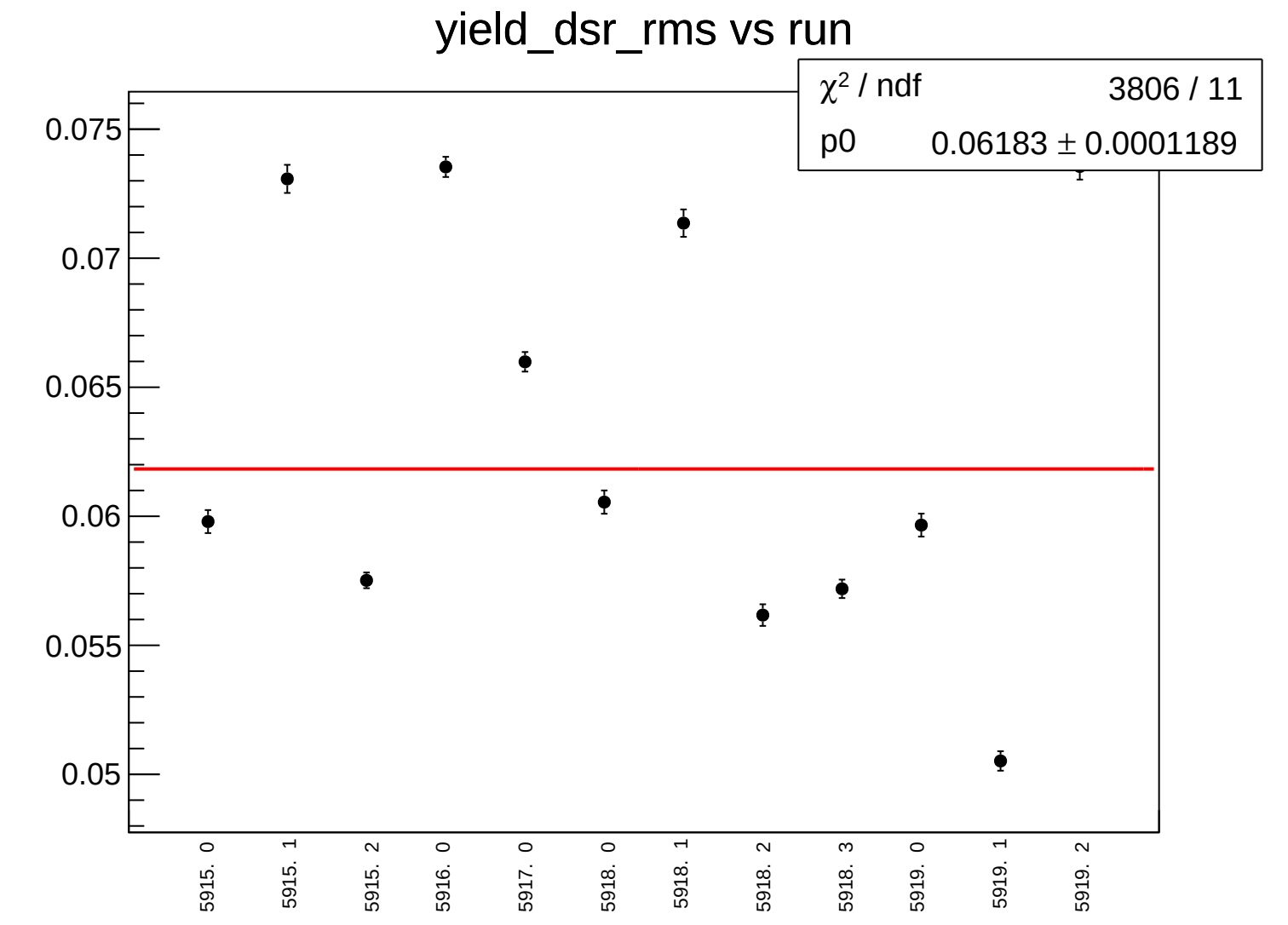

pull1D
Entries 12
Mean −4.863
Std Dev 1.644
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

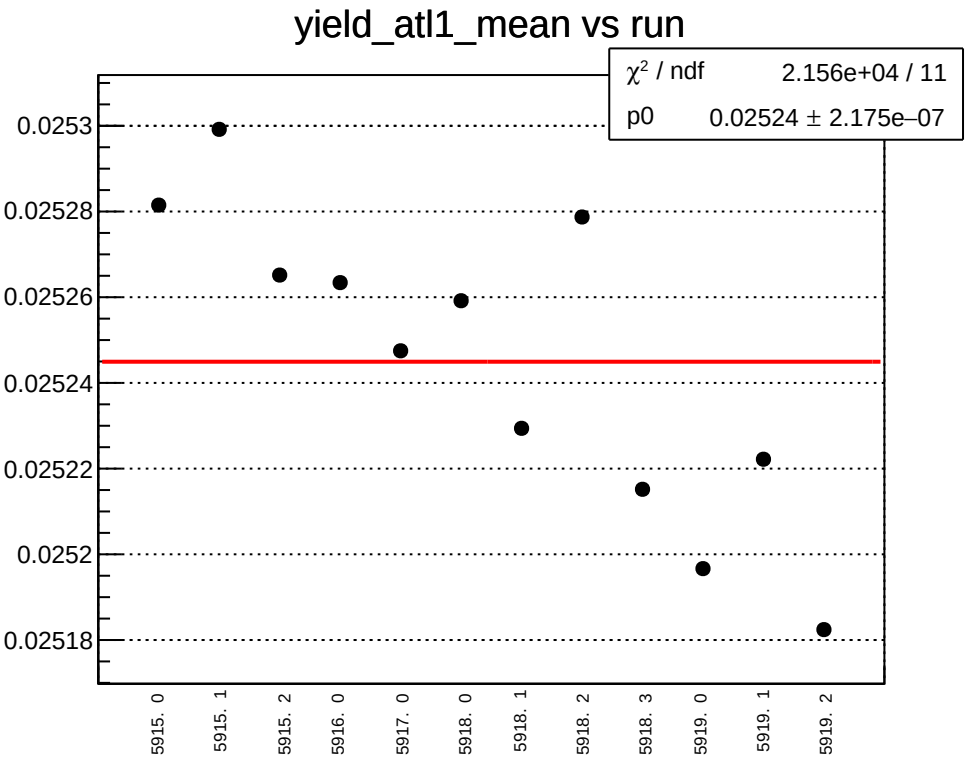

yield_dsl_rms vs run
χ² / ndf 2385 / 11
p0 0.04659 ± 8.939e−05
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

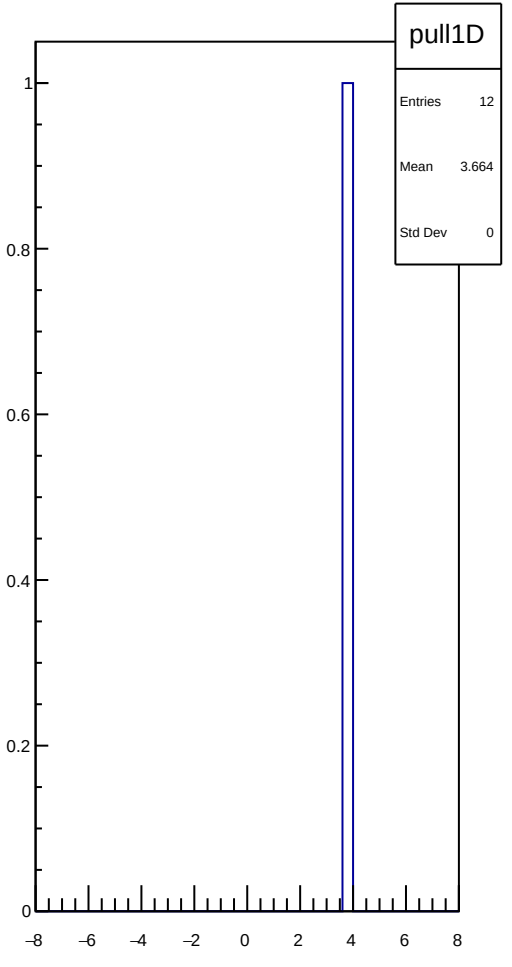

yield_dsr_mean vs run
χ² / ndf 4.12e+04 / 11
p0 −69.19 ± 0.0001682
−69.14
−69.16
−69.18
−69.2
−69.22
−69.24
−69.26
−69.28
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

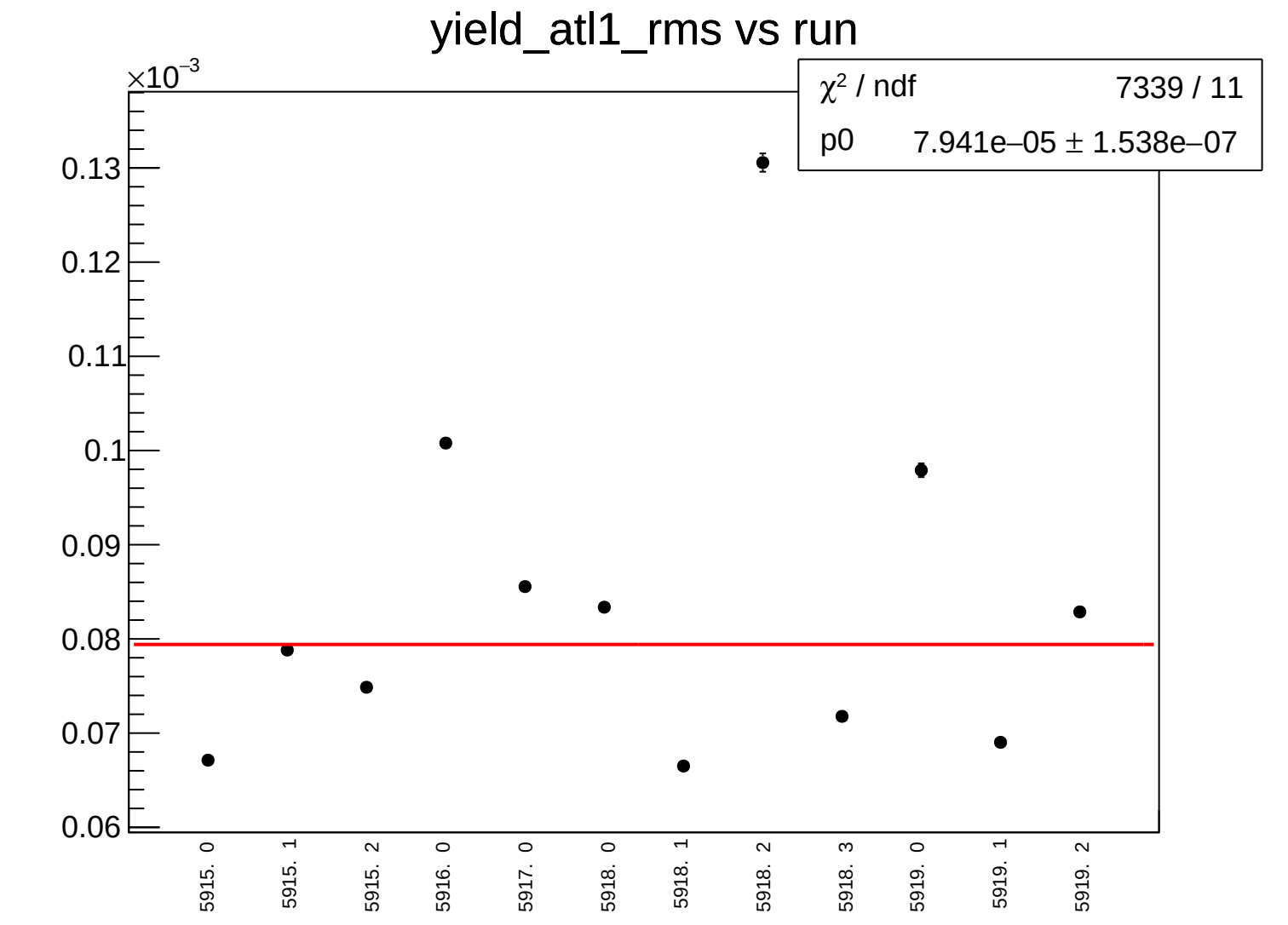

pull
Entries 12
Mean 107.7
Std Dev 101.1
100
50
0
−50
−100

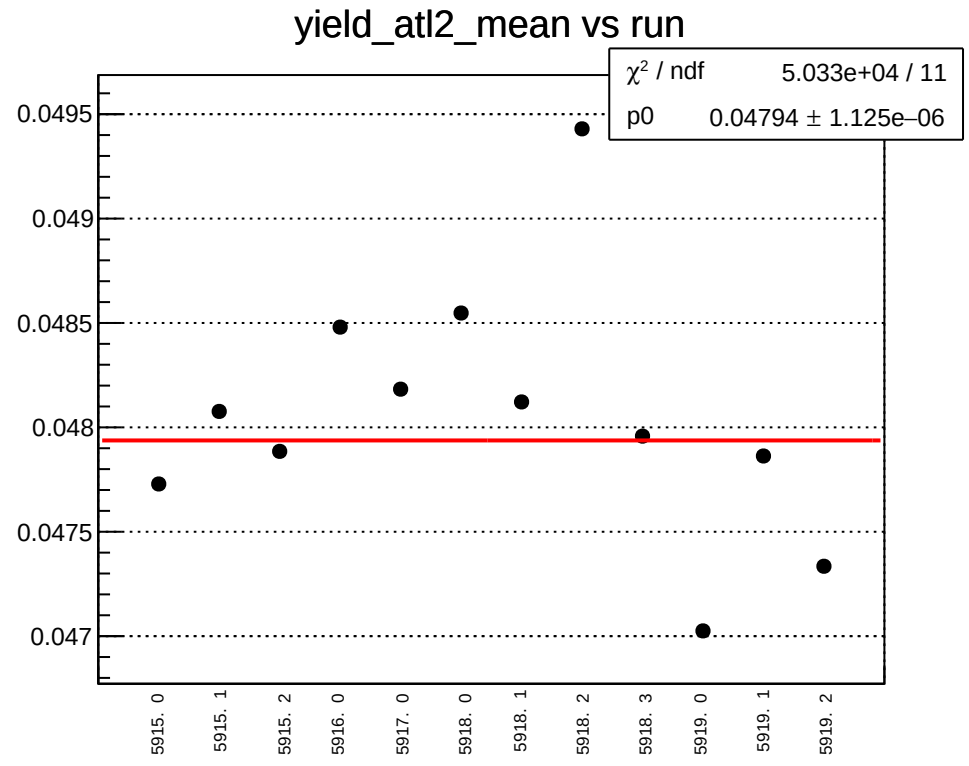

pull1D
Entries 12
Mean −2.499
Std Dev 3.075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

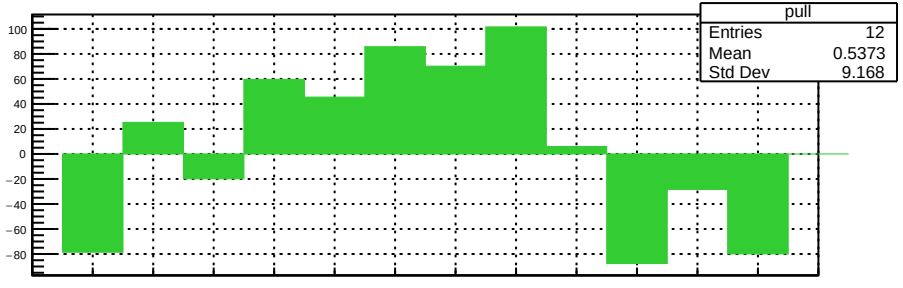

yield_dsr_rms vs run
χ² / ndf 3806 / 11
p0 0.06183 ± 0.0001189
0.075
0.07
0.065
0.06
0.055
0.05
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

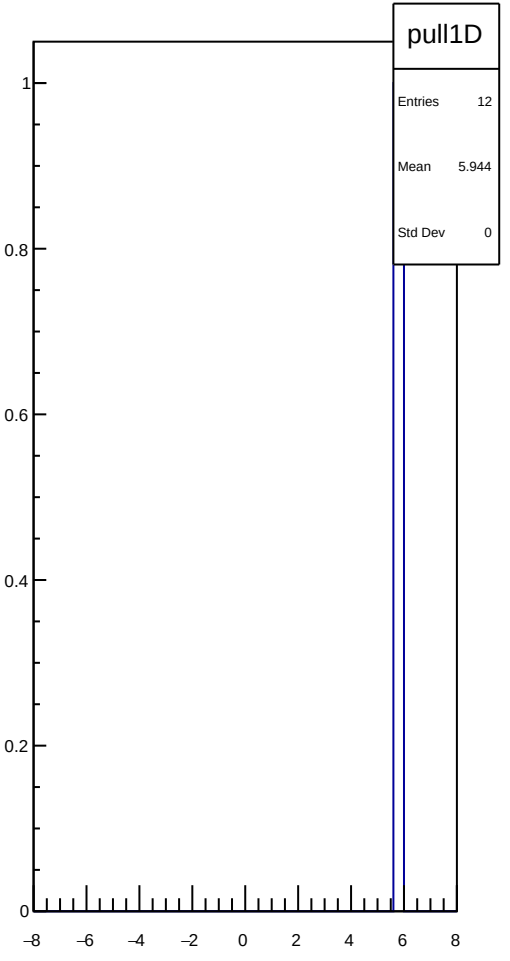

yield_atl1_mean vs run
χ² / ndf 2.156e+04 / 11
p0 0.02524 ± 2.175e−07
0.0253
0.02528
0.02526
0.02524
0.02522
0.0252
0.02518
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 588.9
Std Dev 582.8
60
40
20
0
−20
−40
−60
−80

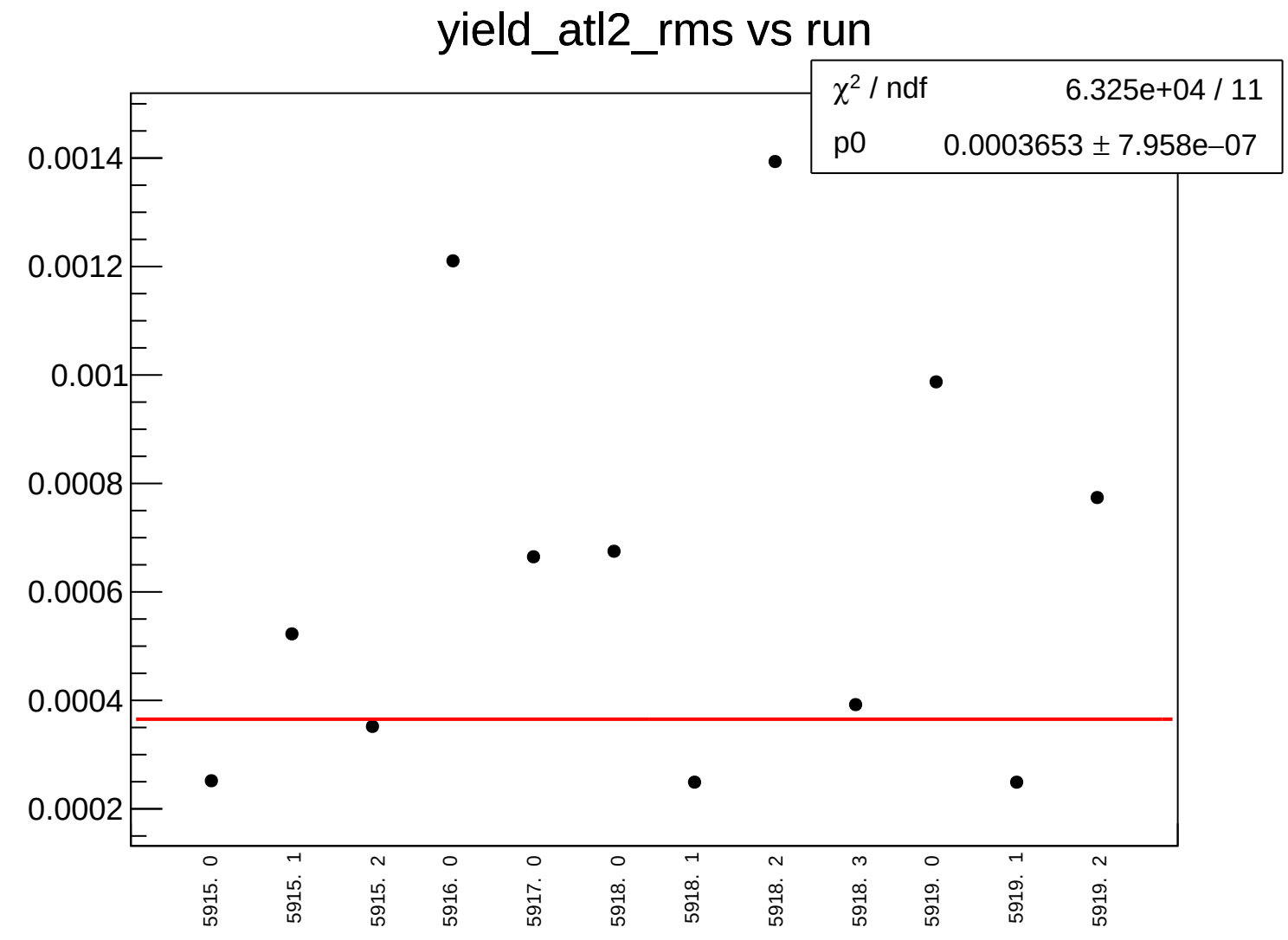

pull1D
Entries 12
Mean 3.664
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

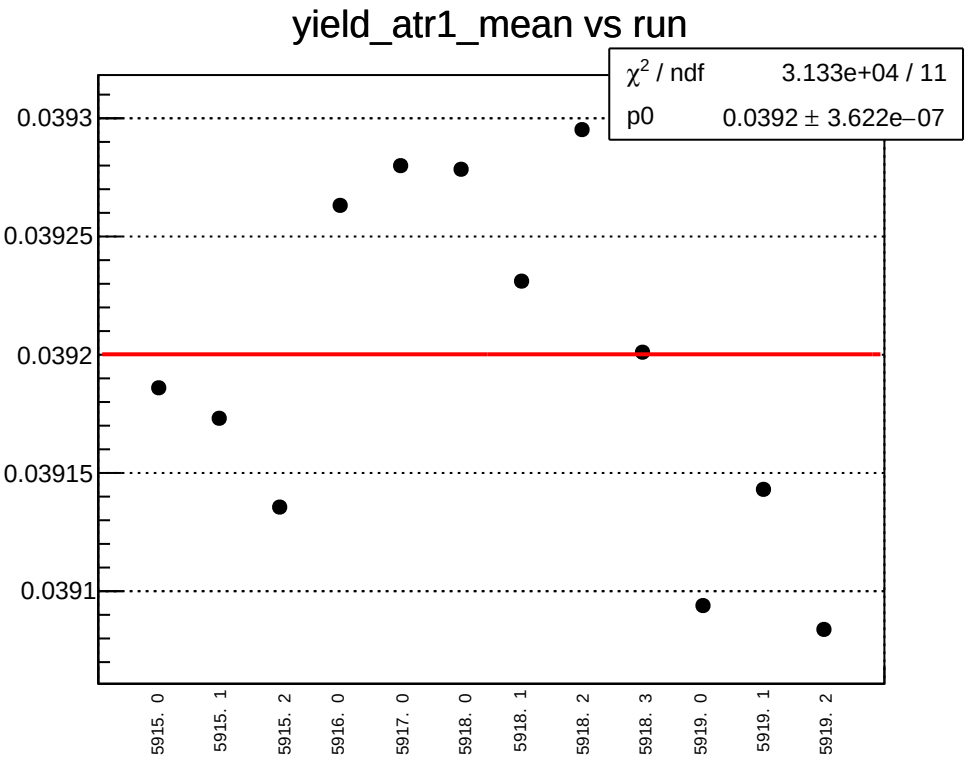

yield_atl1_rms vs run
×10⁻³
χ² / ndf 7339 / 11
p0 7.941e−05 ± 1.538e−07
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

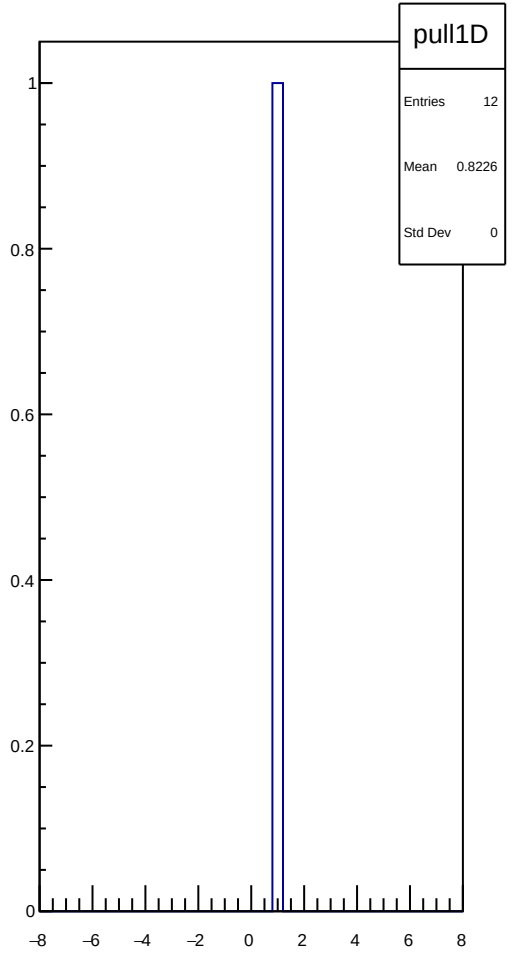

yield_atl2_mean vs run
χ² / ndf 5.033e+04 / 11
p0 0.04794 ± 1.125e−06
0.0495
0.049
0.0485
0.048
0.0475
0.047
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

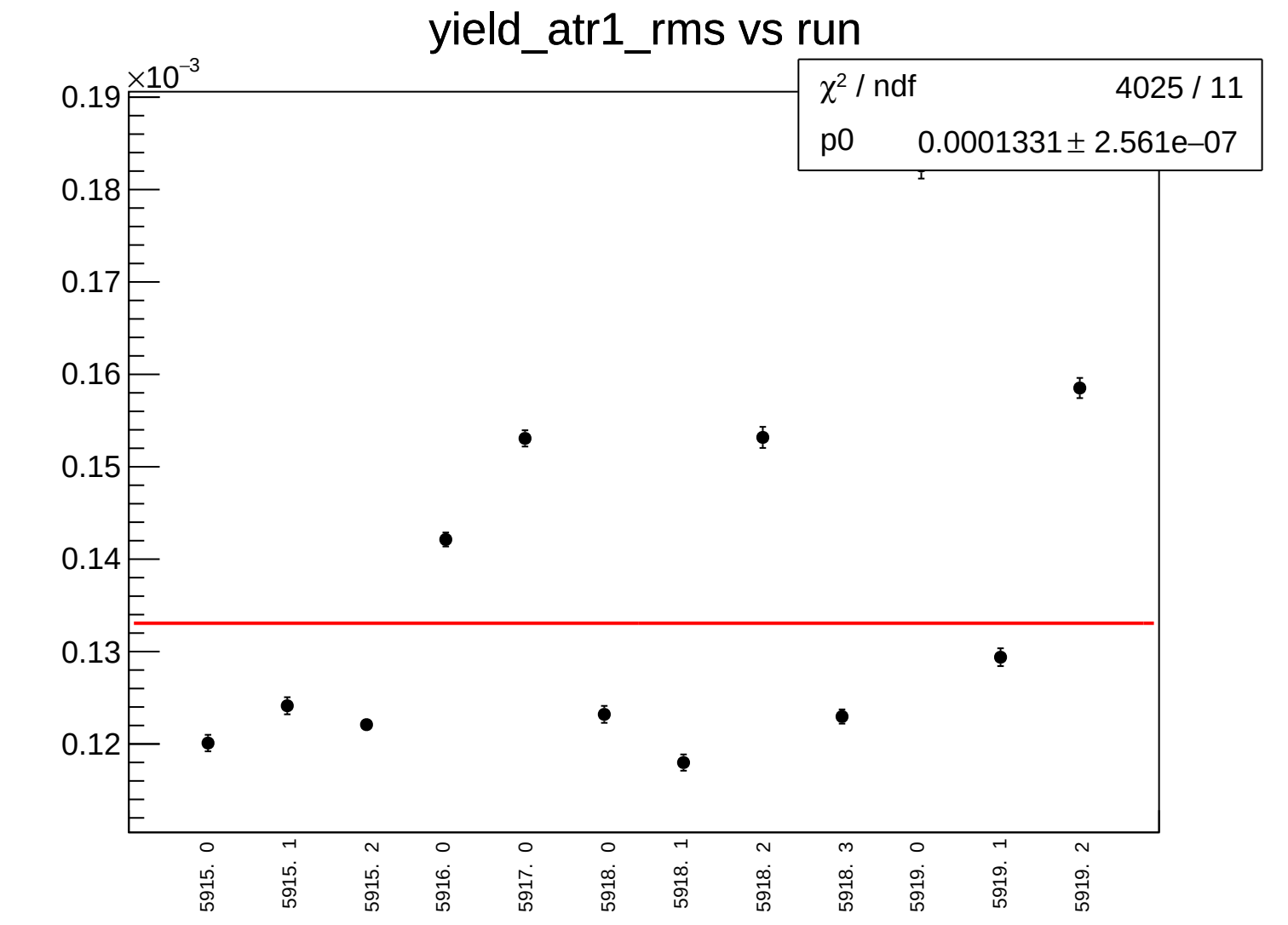

pull
Entries 12
Mean 0.5373
Std Dev 9.168
100
80
60
40
20
0
−20
−40
−60
−80

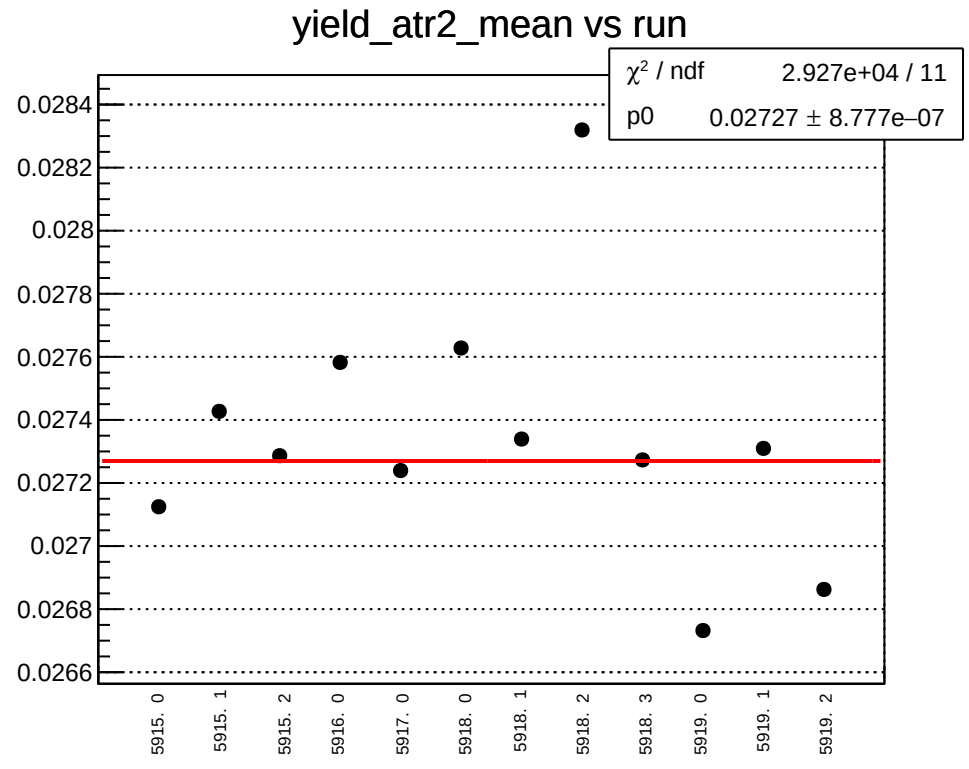

pull1D
Entries 12
Mean 5.944
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

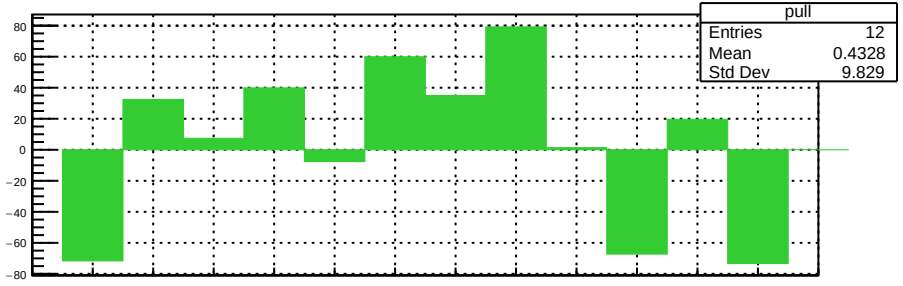

yield_atl2_rms vs run
χ² / ndf 6.325e+04 / 11
p0 0.0003653 ± 7.958e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

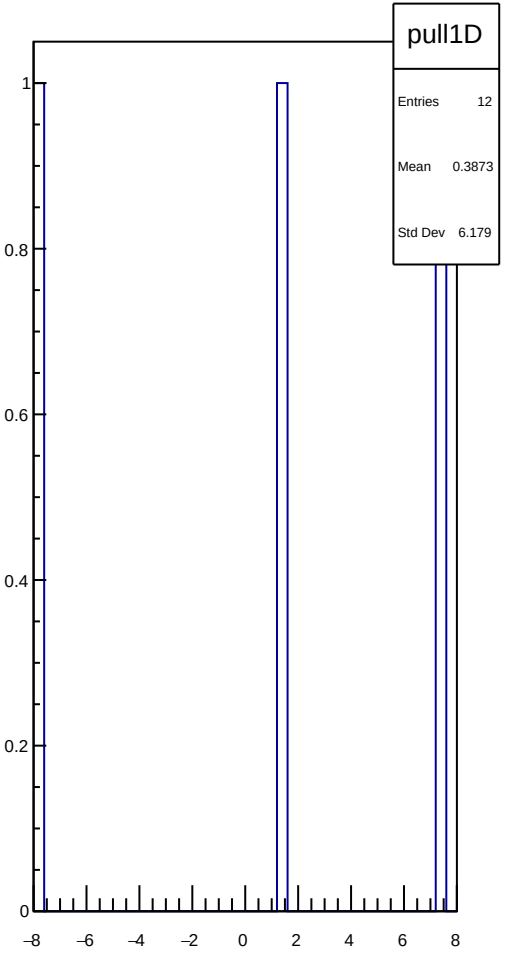

yield_atr1_mean vs run
χ² / ndf 3.133e+04 / 11
p0 0.0392 ± 3.622e−07
0.0393
0.03925
0.0392
0.03915
0.0391
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 85.05
Std Dev 74.72
60
40
20
0
−20
−40
−60
−80

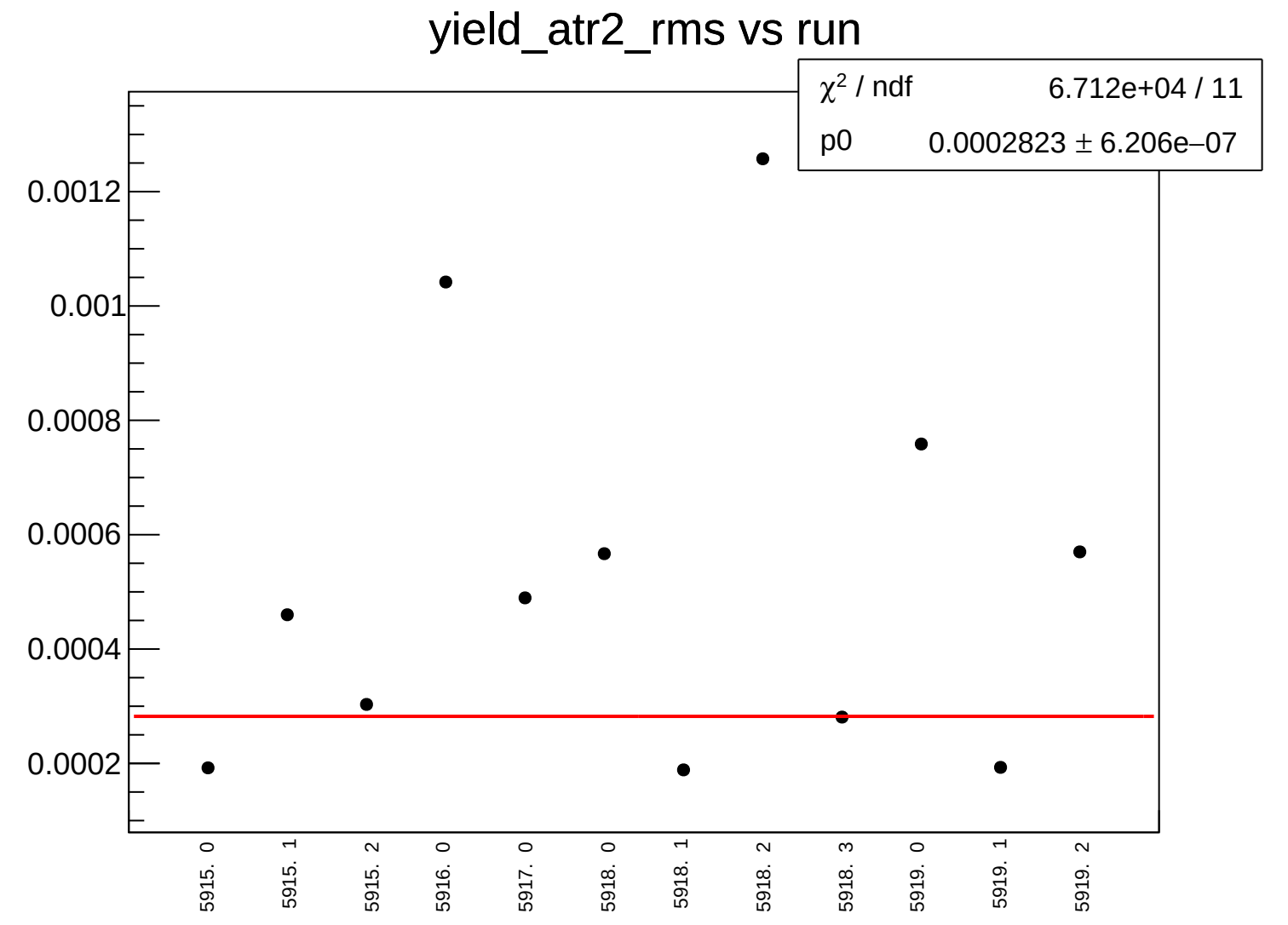

pull1D
Entries 12
Mean 0.8226
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

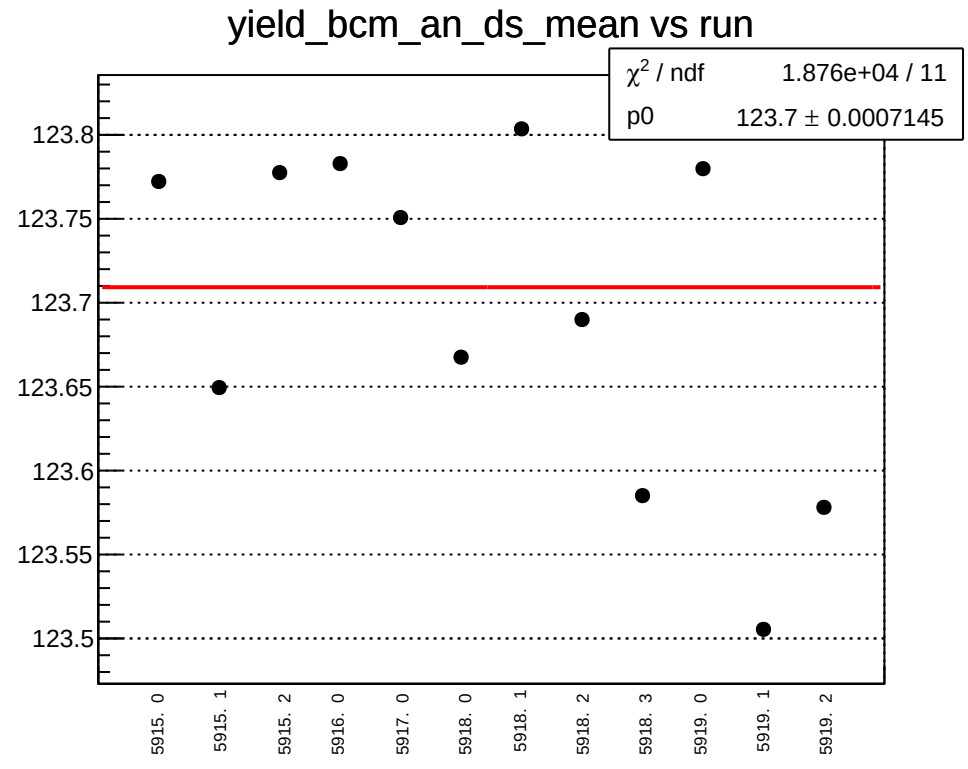

yield_atr1_rms vs run
×10⁻³
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
χ² / ndf 4025 / 11
p0 0.0001331 ± 2.561e−07
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

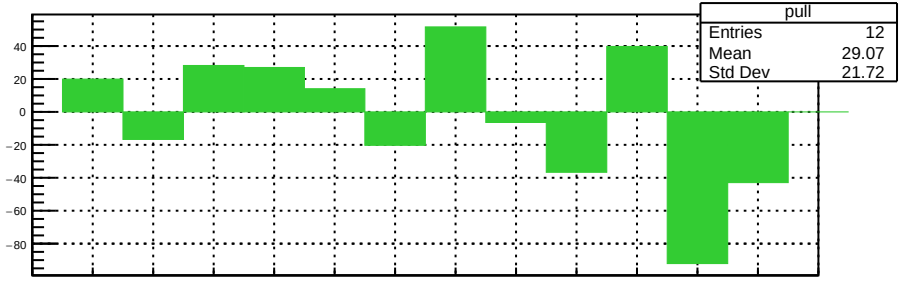

yield_atr2_mean vs run
χ² / ndf 2.927e+04 / 11
p0 0.02727 ± 8.777e−07
0.0284
0.0282
0.028
0.0278
0.0276
0.0274
0.0272
0.027
0.0268
0.0266
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

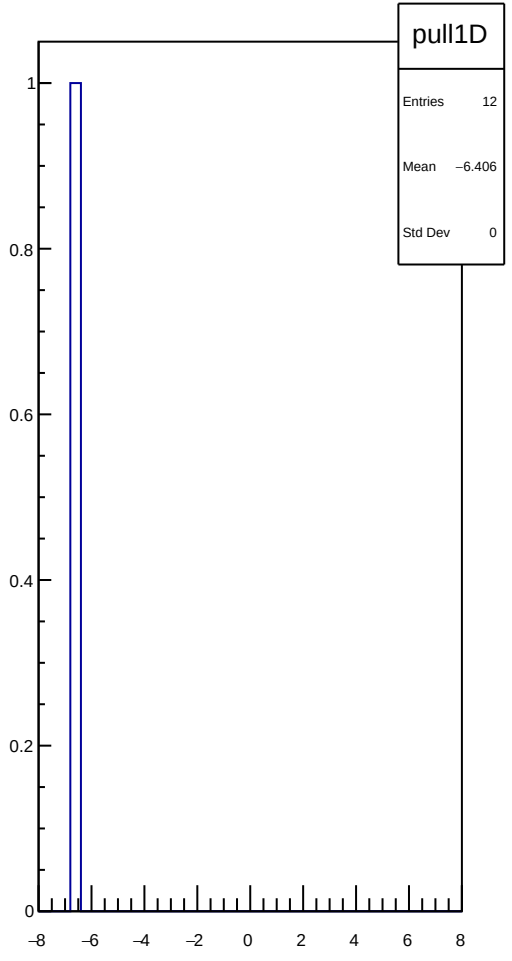

pull
Entries 12
Mean 0.4328
Std Dev 9.829
80
60
40
20
0
−20
−40
−60
−80

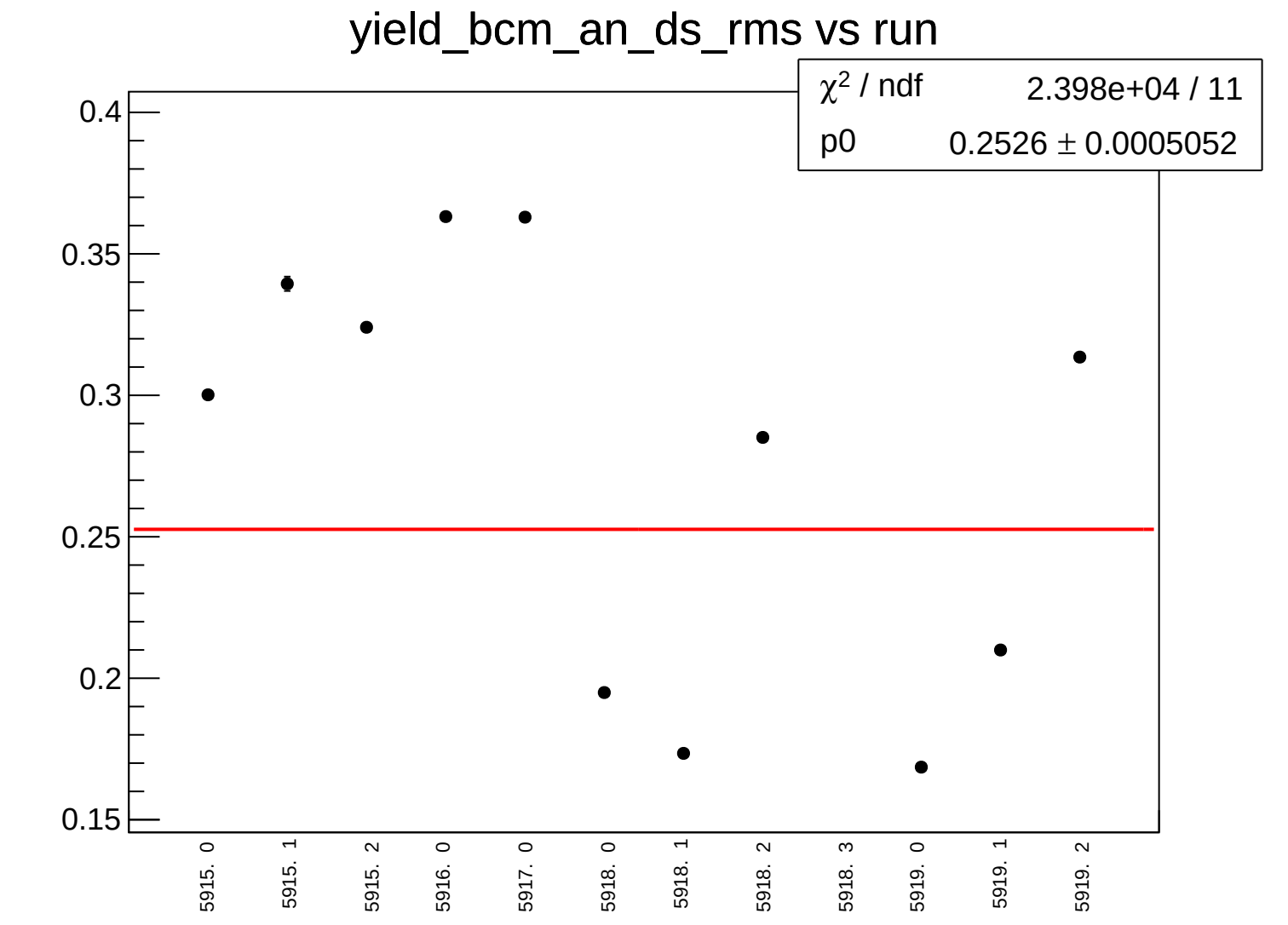

pull1D
Entries 12
Mean 0.3873
Std Dev 6.179
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

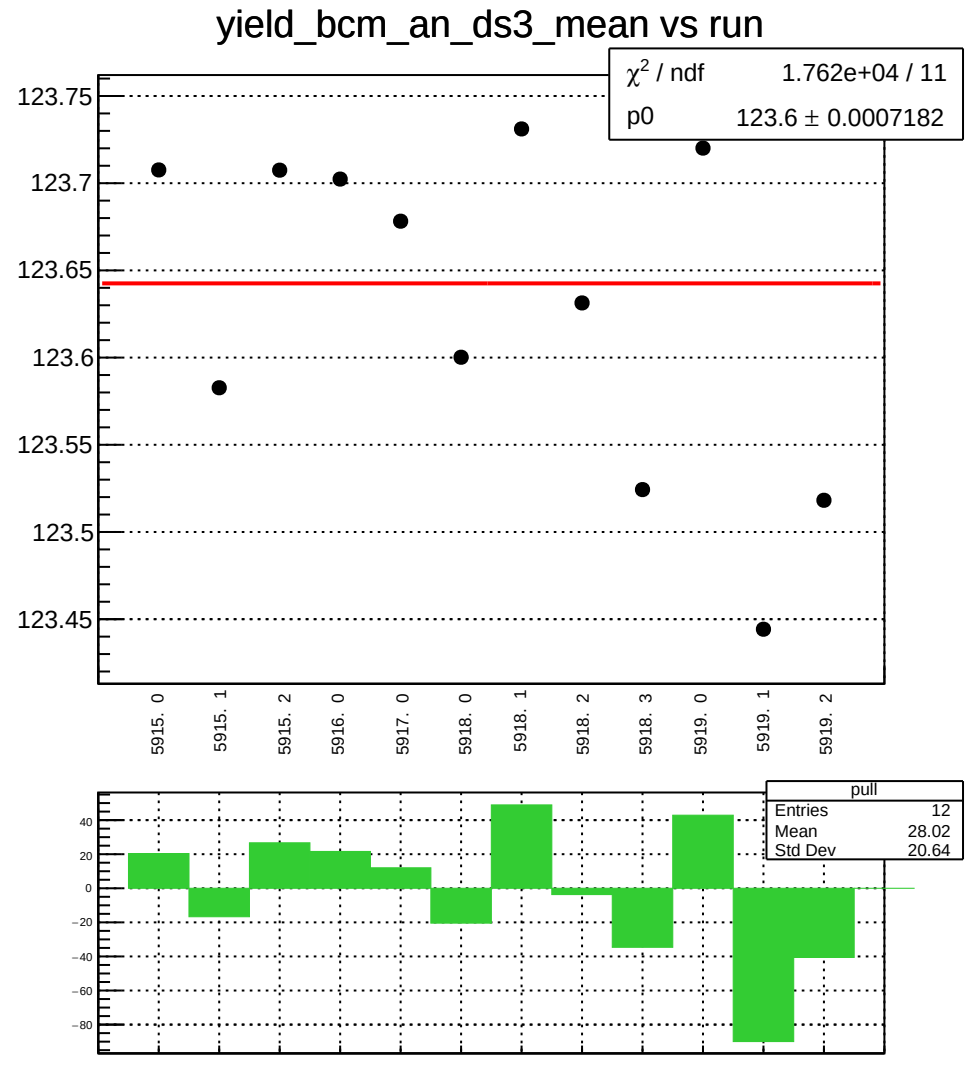

yield_atr2_rms vs run
χ² / ndf 6.712e+04 / 11
p0 0.0002823 ± 6.206e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

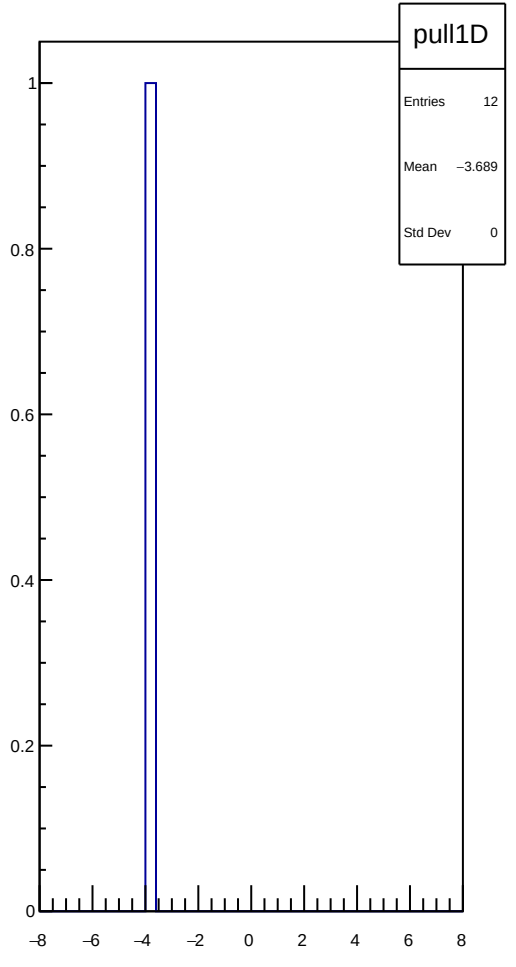

yield_bcm_an_ds_mean vs run
χ² / ndf 1.876e+04 / 11
p0 123.7 ± 0.0007145
123.8
123.75
123.7
123.65
123.6
123.55
123.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

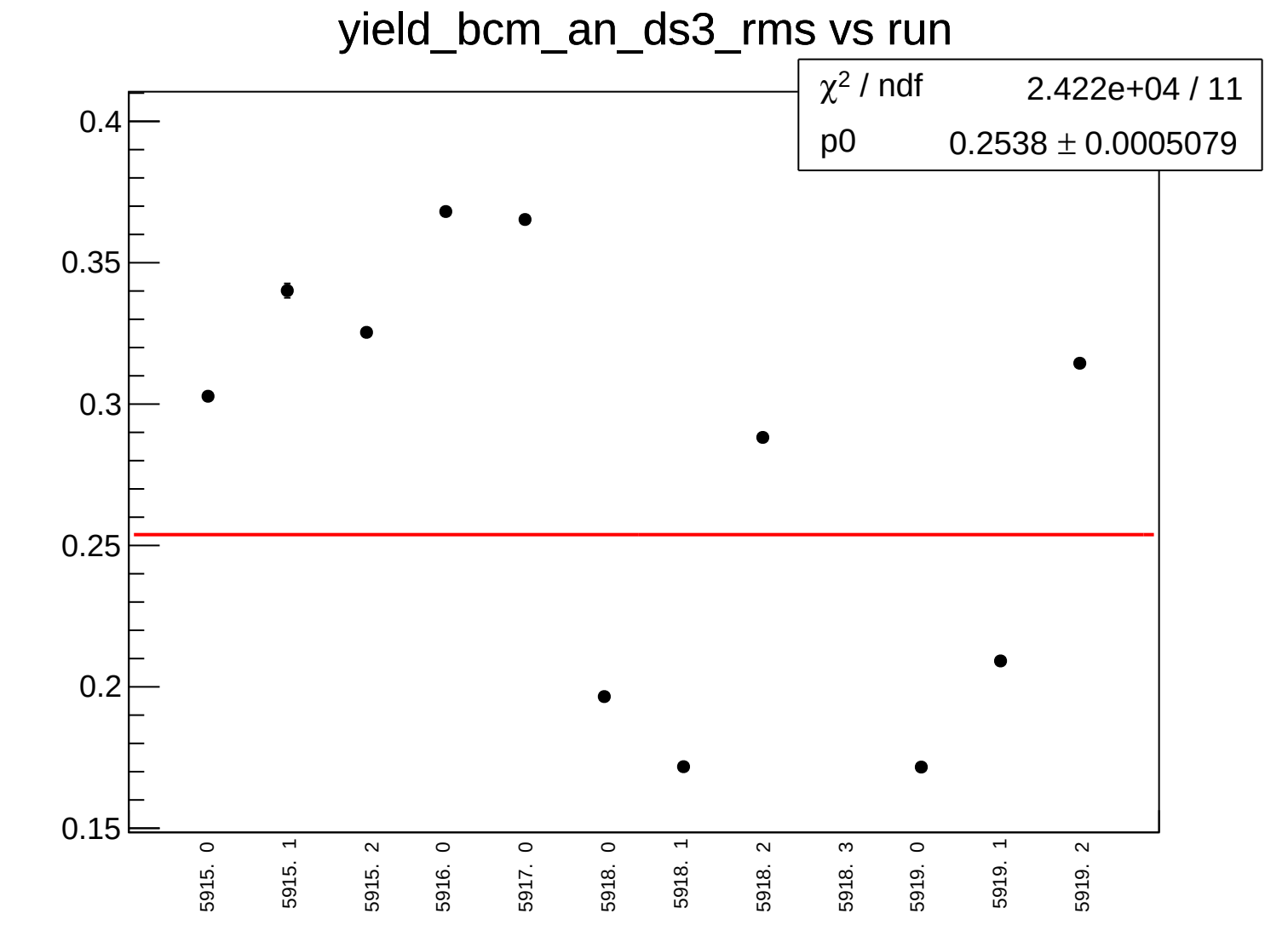

pull
Entries 12
Mean 29.07
Std Dev 21.72
40
20
0
−20
−40
−60
−80

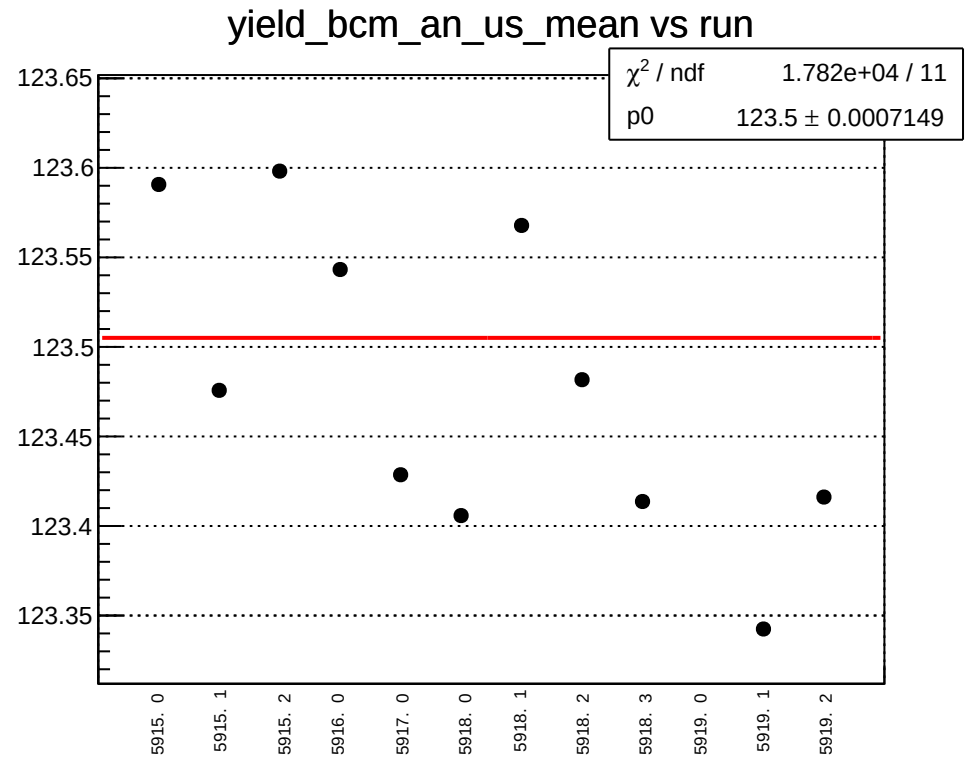

pull1D
Entries 12
Mean −6.406
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

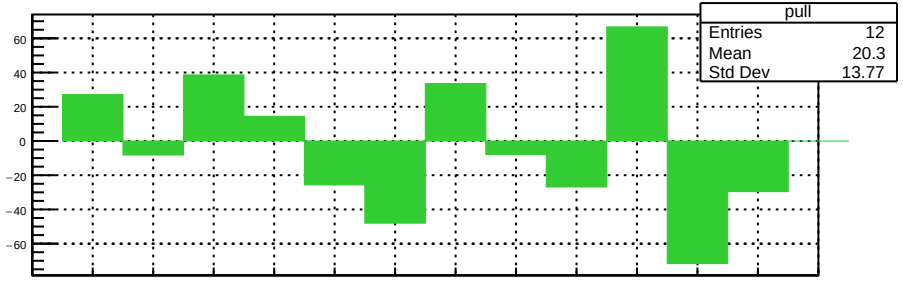

yield_bcm_an_ds_rms vs run
χ² / ndf 2.398e+04 / 11
p0 0.2526 ± 0.0005052
0.4
0.35
0.3
0.25
0.2
0.15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

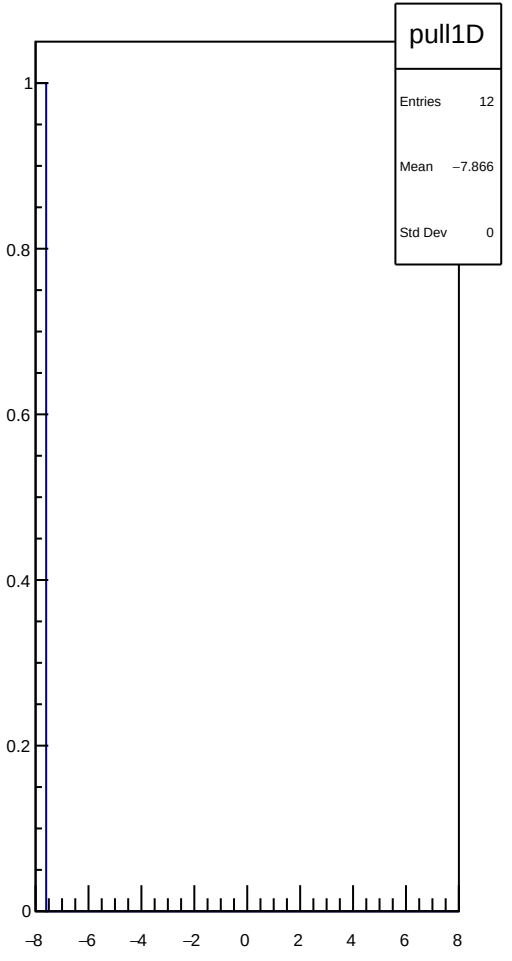

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.762e+04 / 11
p0 123.6 ± 0.0007182
123.75
123.7
123.65
123.6
123.55
123.5
123.45
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.02
Std Dev 20.64
40
20
0
−20
−40
−60
−80

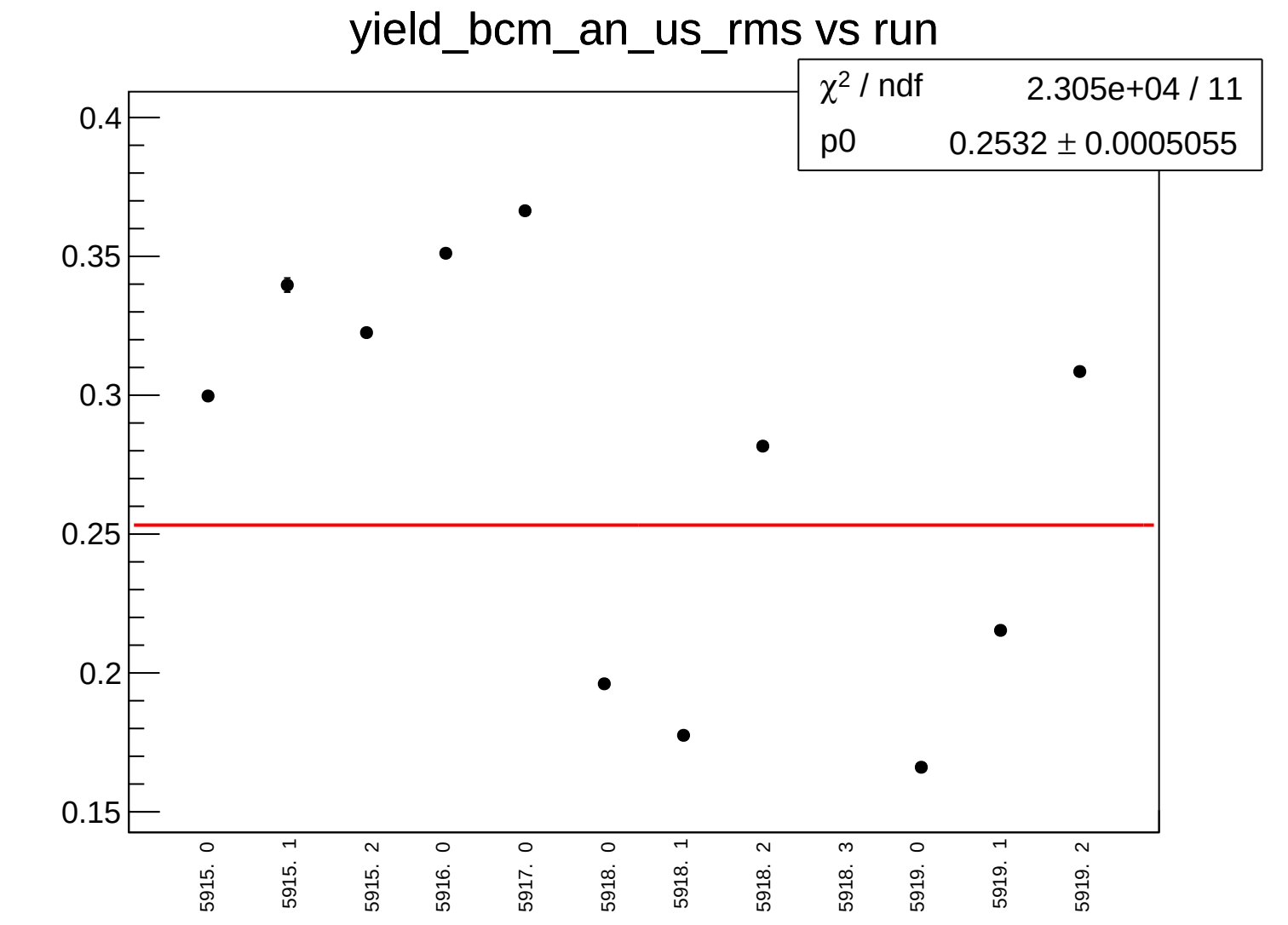

pull1D
Entries 12
Mean −3.689
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

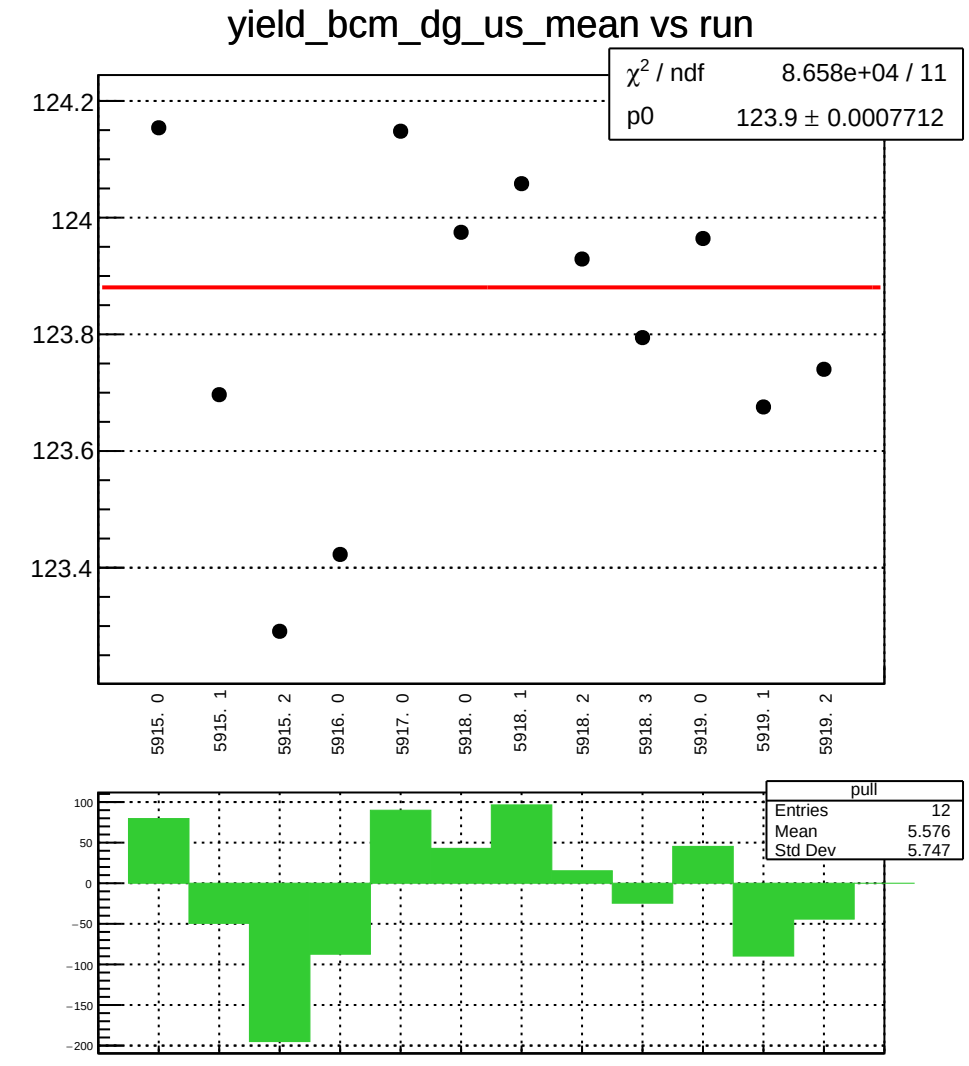

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.422e+04 / 11
p0 0.2538 ± 0.0005079
0.4
0.35
0.3
0.25
0.2
0.15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

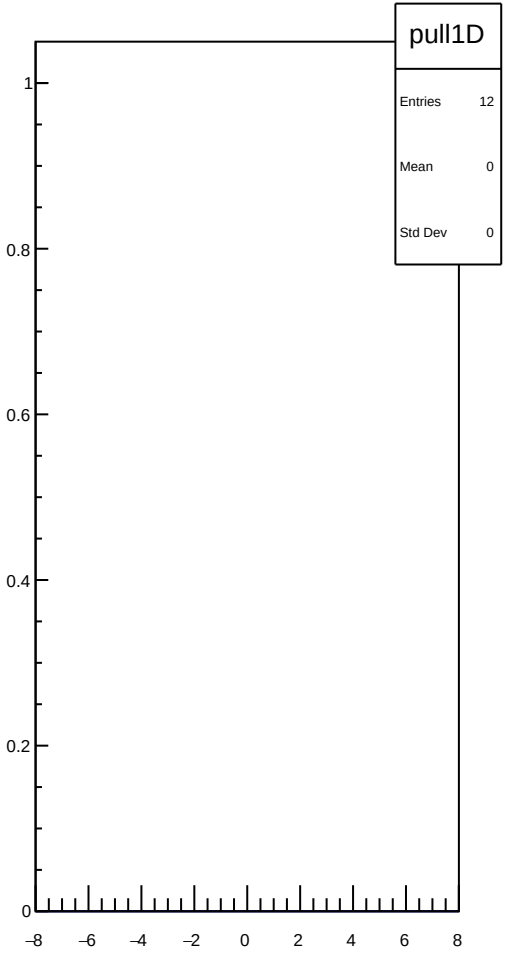

yield_bcm_an_us_mean vs run
χ² / ndf 1.782e+04 / 11
p0 123.5 ± 0.0007149
123.65
123.6
123.55
123.5
123.45
123.4
123.35
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

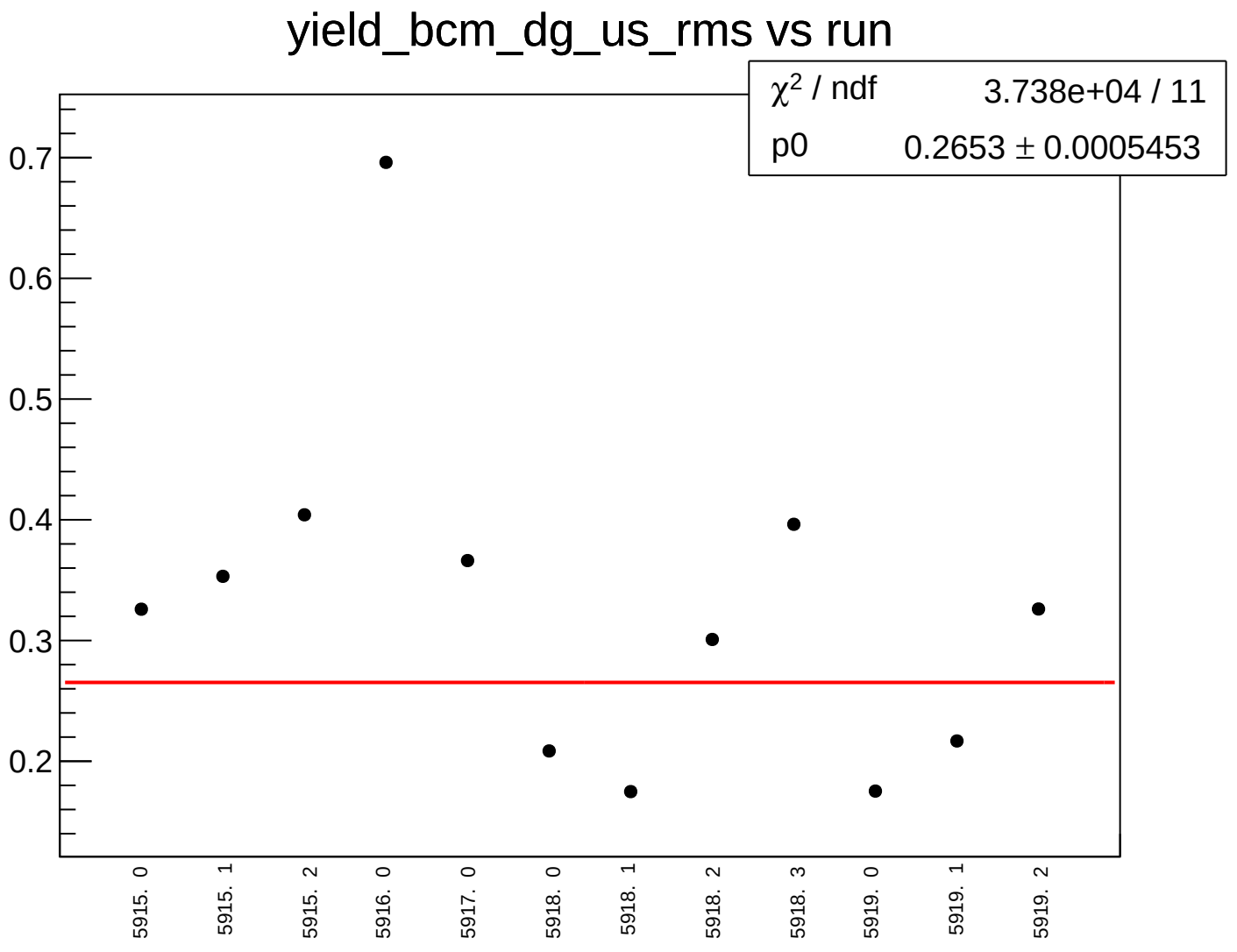

pull
Entries 12
Mean 20.3
Std Dev 13.77
60
40
20
0
−20
−40
−60

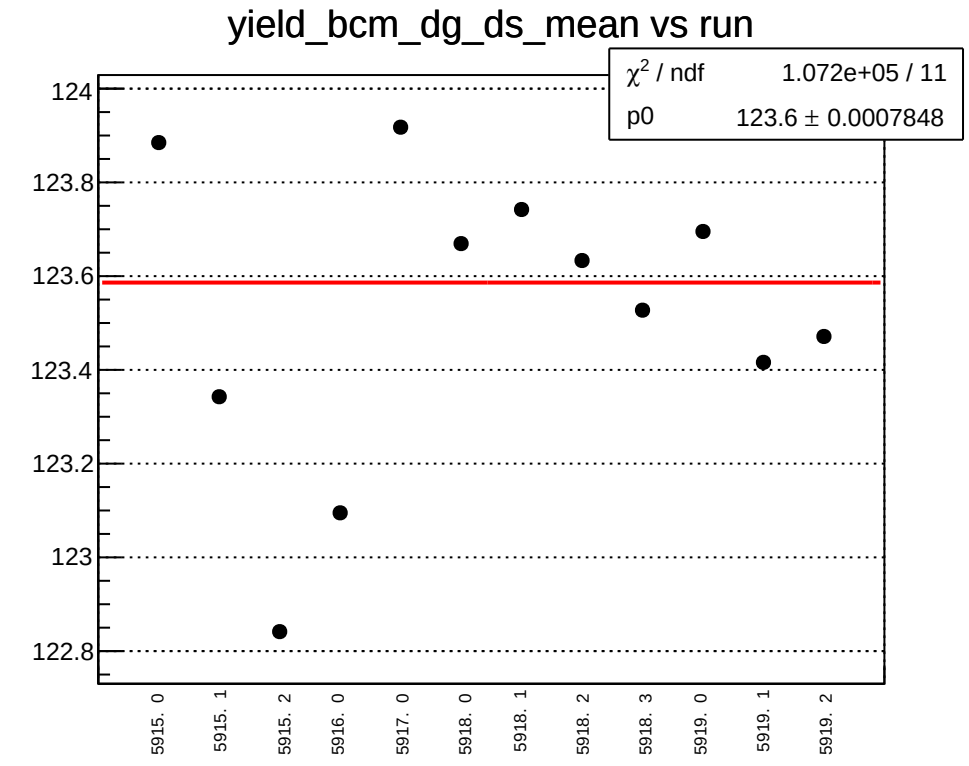

pull1D
Entries 12
Mean −7.866
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

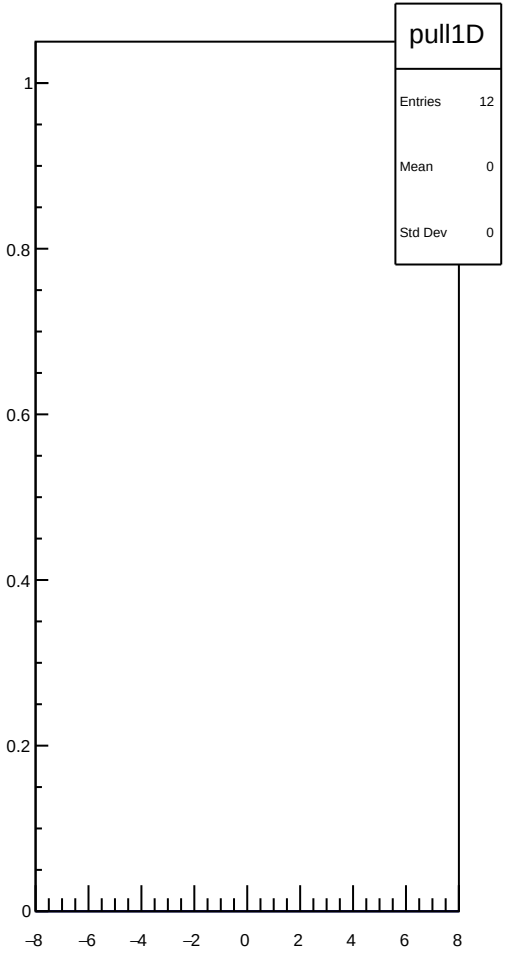

yield_bcm_an_us_rms vs run
χ² / ndf 2.305e+04 / 11
p0 0.2532 ± 0.0005055
0.4
0.35
0.3
0.25
0.2
0.15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

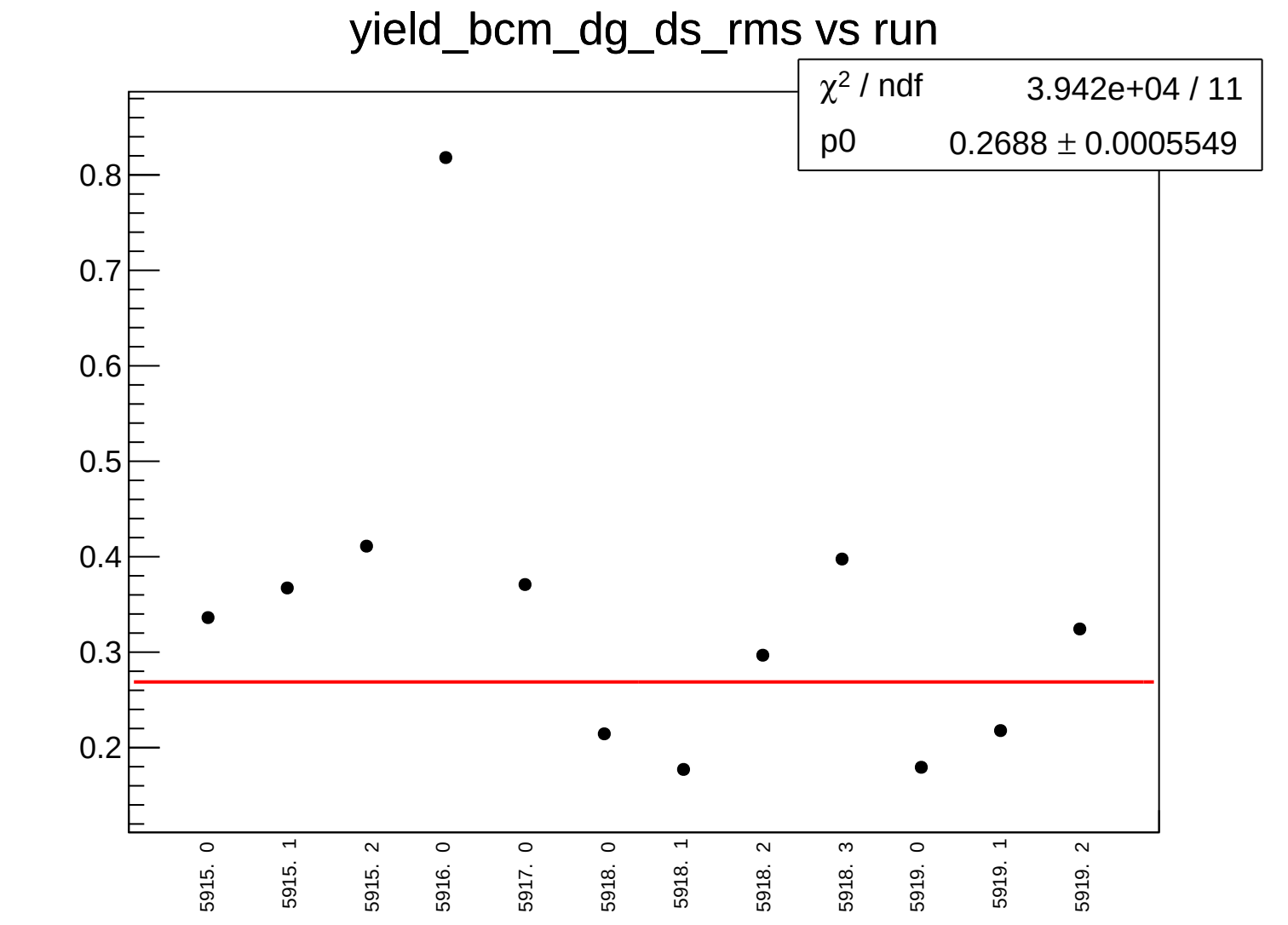

yield_bcm_dg_us_mean vs run
χ² / ndf 8.658e+04 / 11
p0 123.9 ± 0.0007712
124.2
124
123.8
123.6
123.4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 5.576
Std Dev 5.747
100
50
0
−50
−100
−150
−200

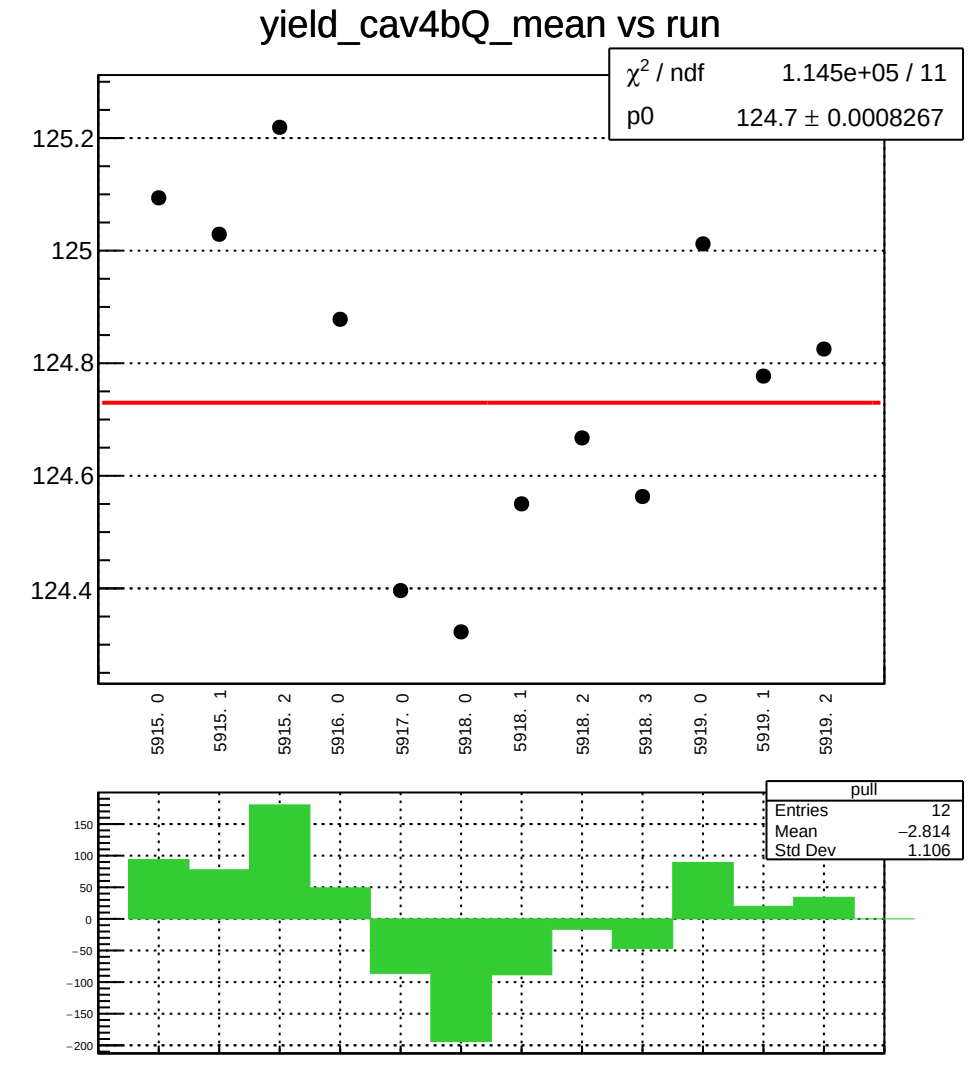

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

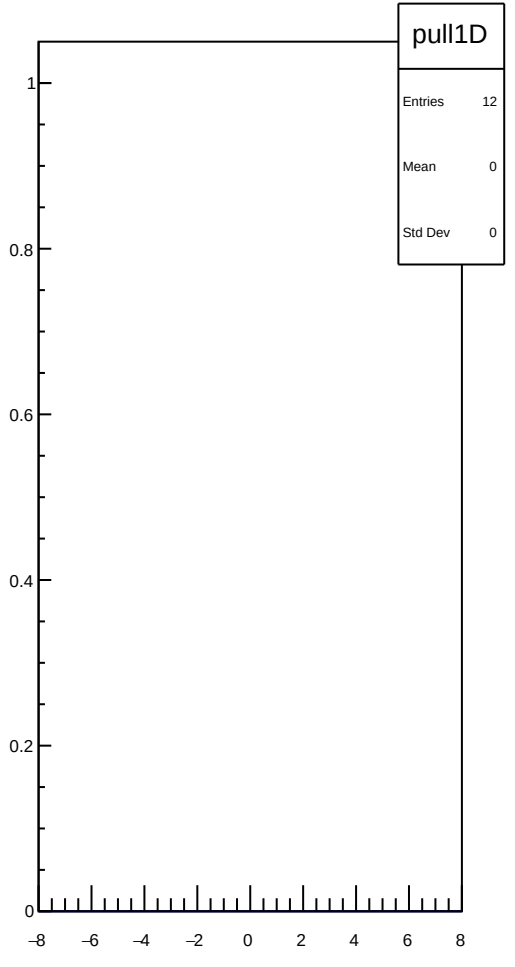

yield_bcm_dg_us_rms vs run
χ² / ndf 3.738e+04 / 11
p0 0.2653 ± 0.0005453
0.7
0.6
0.5
0.4
0.3
0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

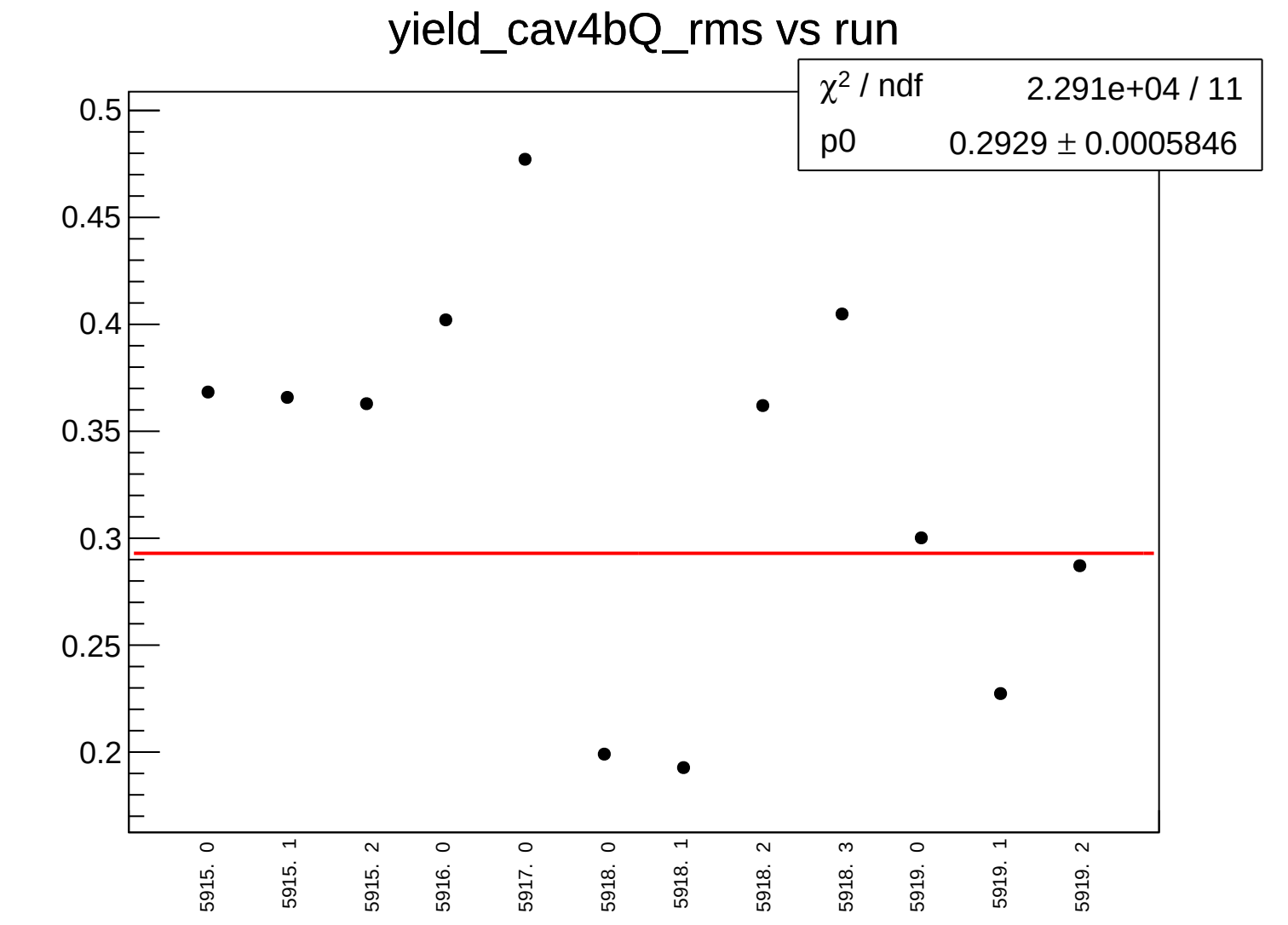

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.072e+05 / 11
p0 123.6 ± 0.0007848
124
123.8
123.6
123.4
123.2
123
122.8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.005
Std Dev 4.699
100
50
0
−50
−100
−150
−200
−250

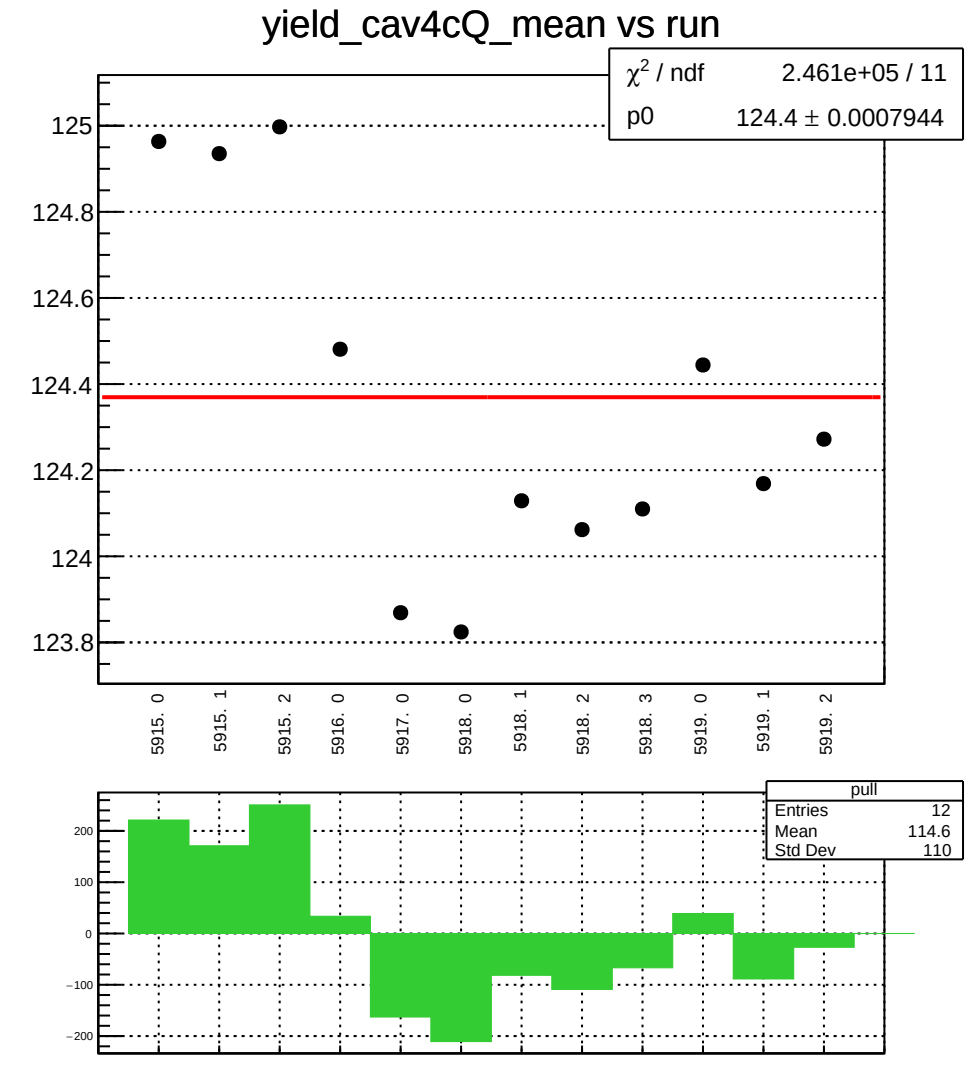

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

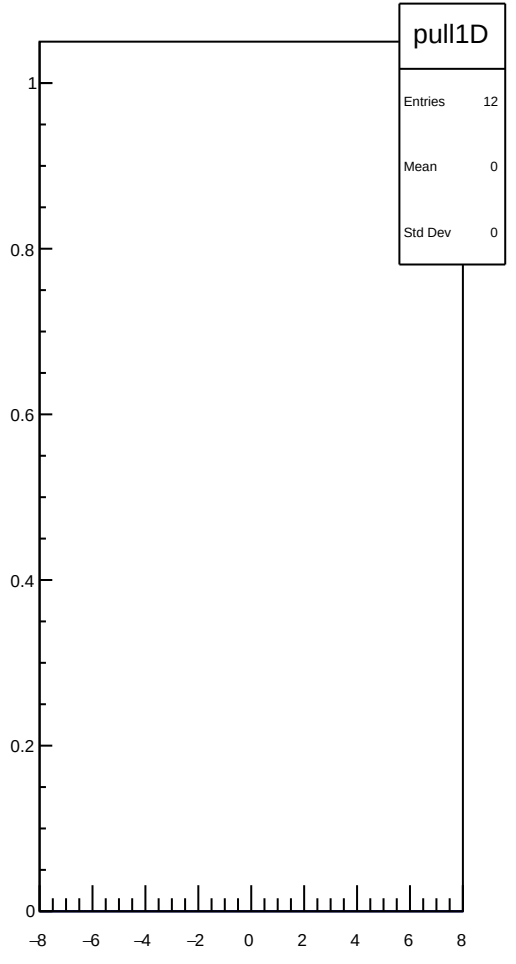

yield_bcm_dg_ds_rms vs run
χ2 / ndf 3.942e+04 / 11
p0 0.2688 ± 0.0005549
0.8
0.7
0.6
0.5
0.4
0.3
0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

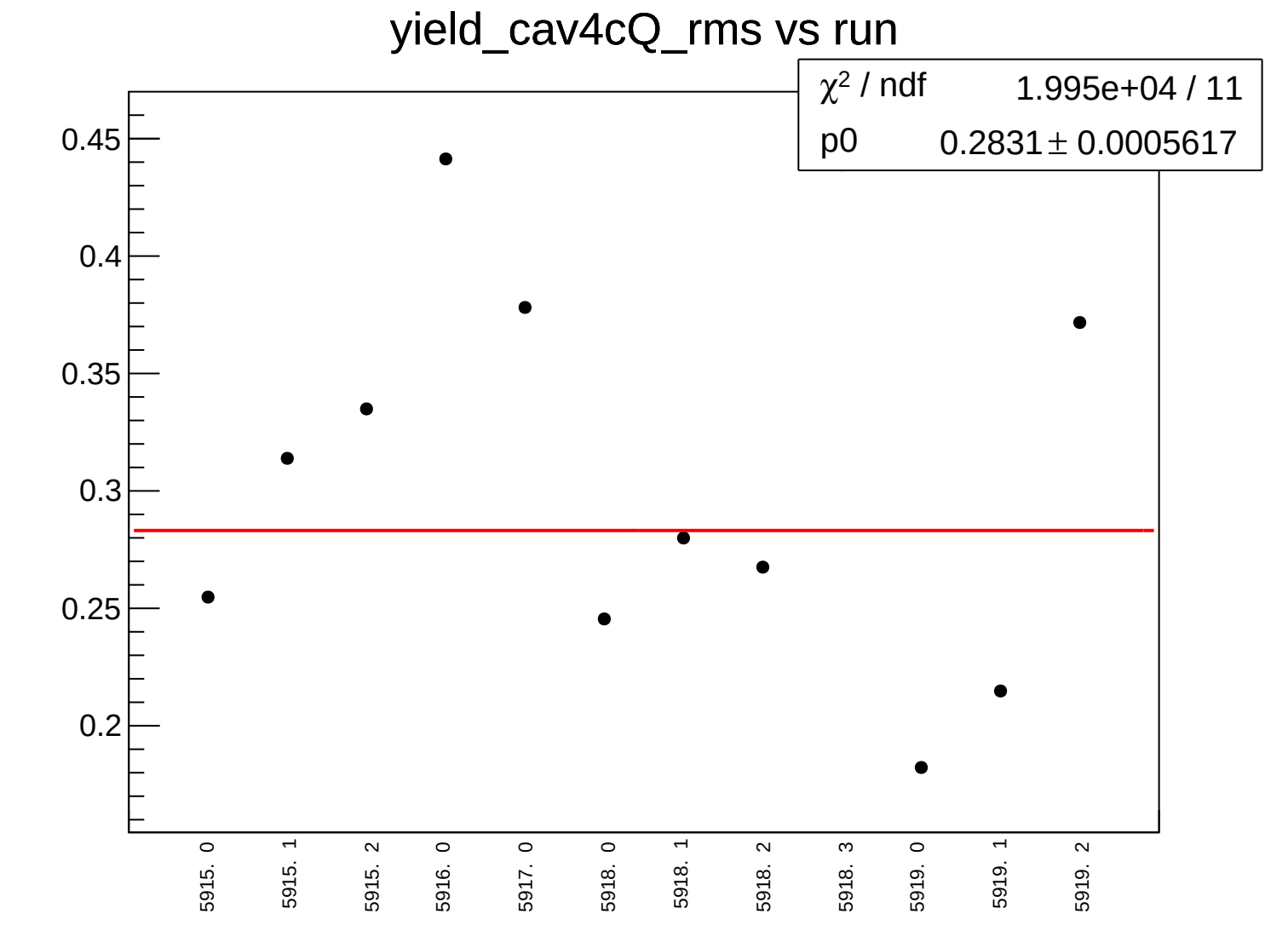

yield_cav4bQ_mean vs run
χ² / ndf 1.145e+05 / 11
p0 124.7 ± 0.0008267
125.2
125
124.8
124.6
124.4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −2.814
Std Dev 1.106
150
100
50
0
−50
−100
−150
−200

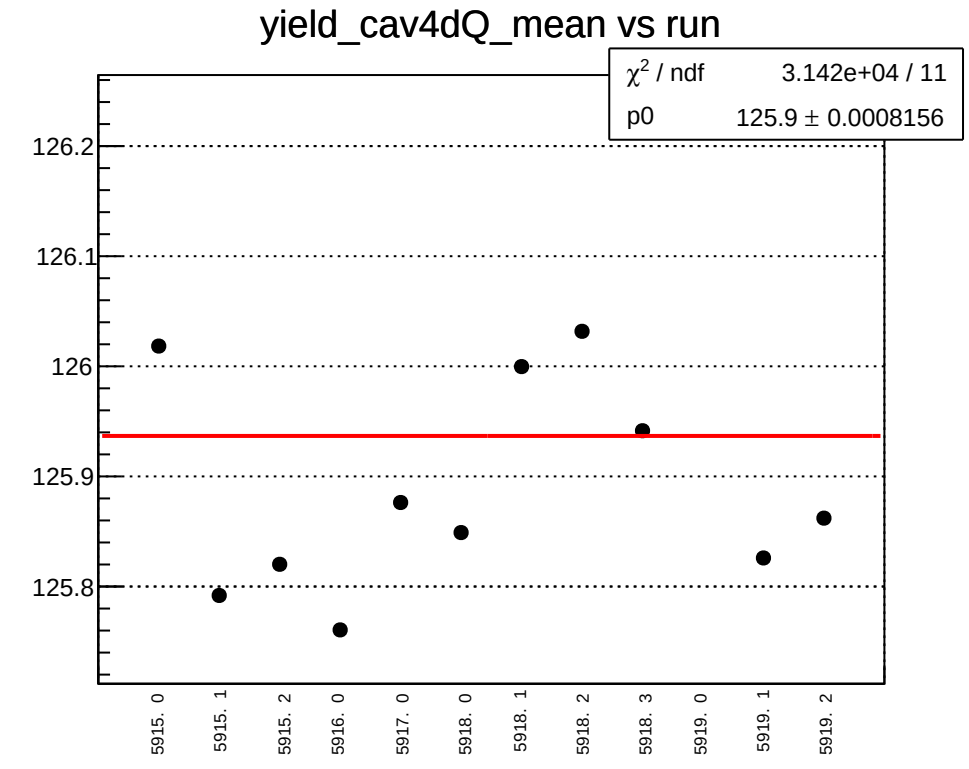

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

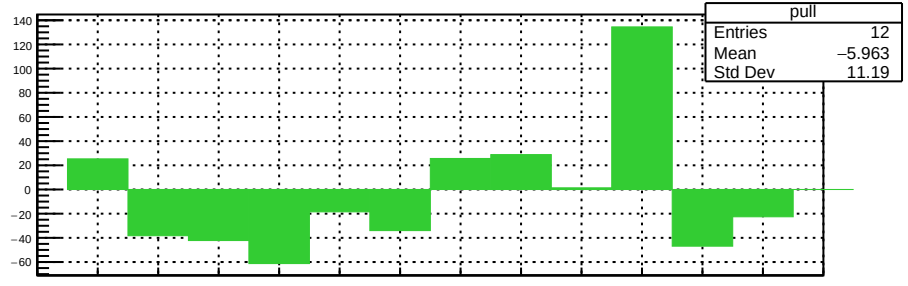

yield_cav4bQ_rms vs run
χ² / ndf 2.291e+04 / 11
p0 0.2929 ± 0.0005846
0.5
0.45
0.4
0.35
0.3
0.25
0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

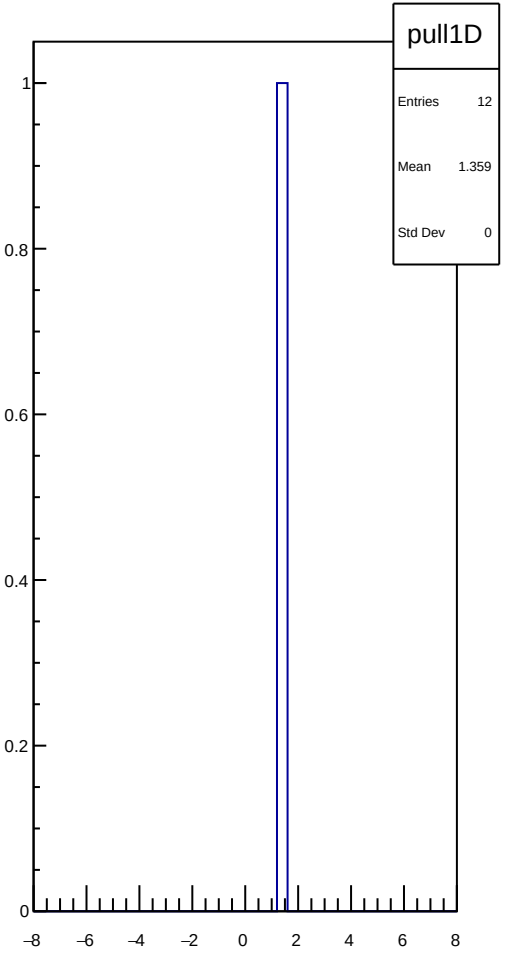

yield_cav4cQ_mean vs run
χ² / ndf 2.461e+05 / 11
p0 124.4 ± 0.0007944
125
124.8
124.6
124.4
124.2
124
123.8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 114.6
Std Dev 110
200
100
0
−100
−200

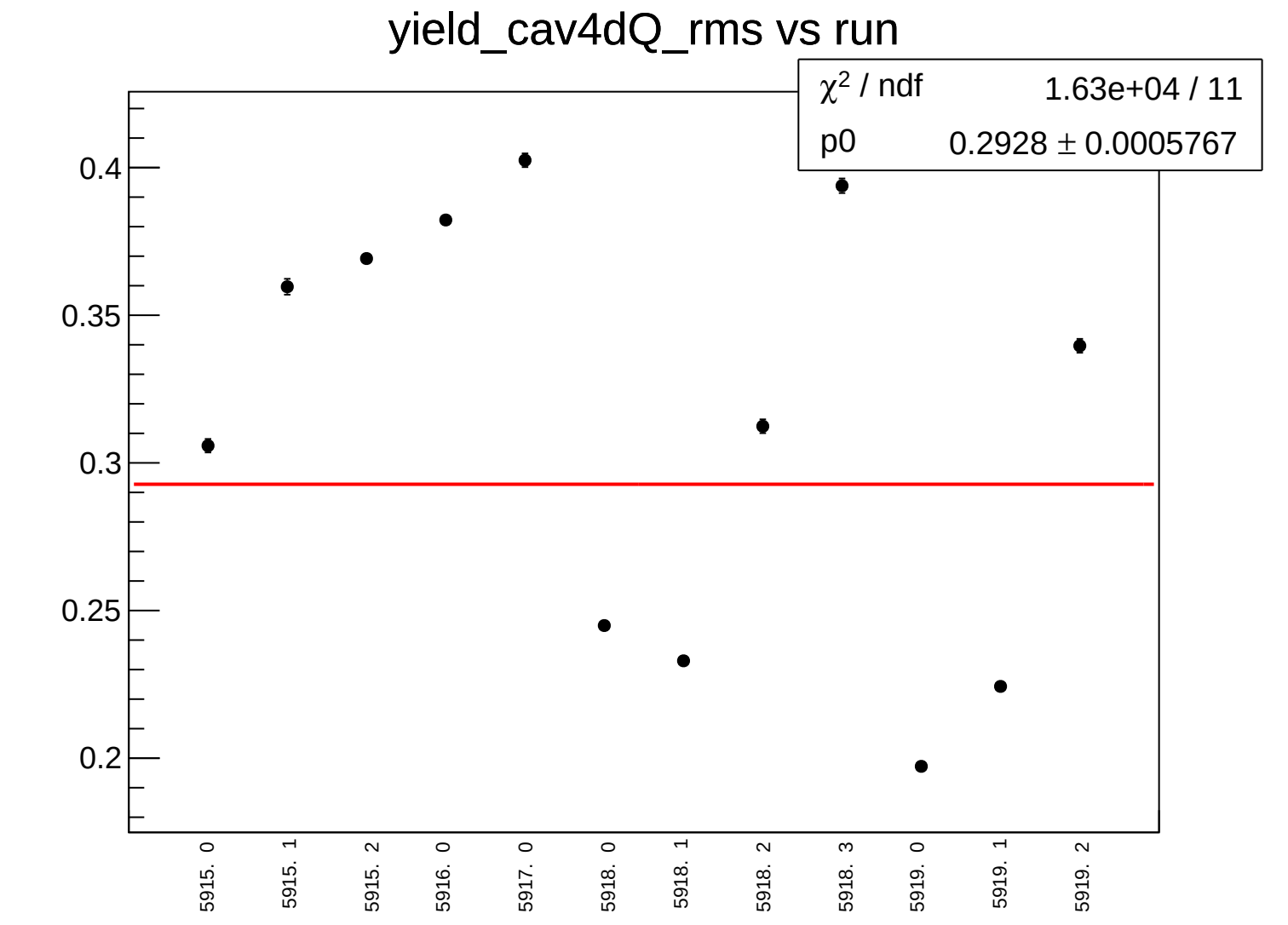

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

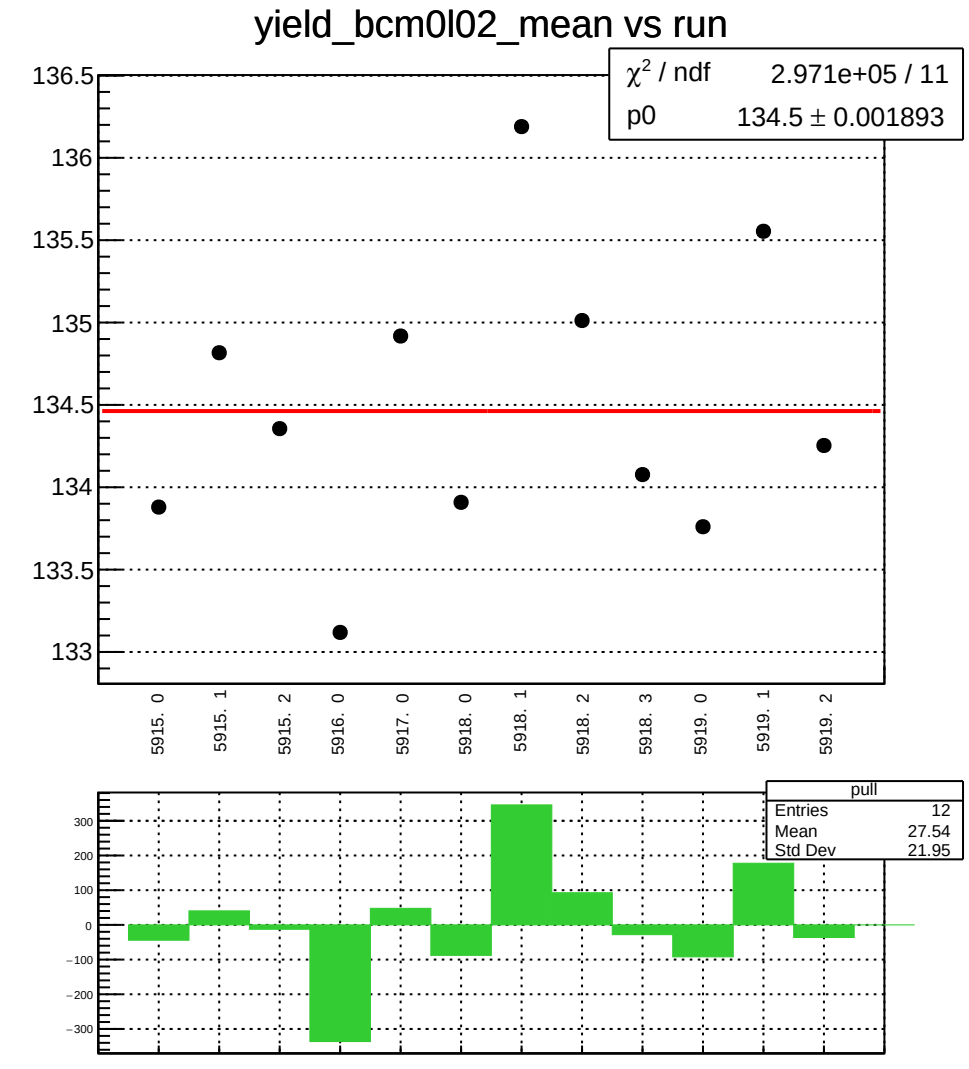

yield_cav4cQ_rms vs run
χ² / ndf 1.995e+04 / 11
p0 0.2831 ± 0.0005617
0.45
0.4
0.35
0.3
0.25
0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

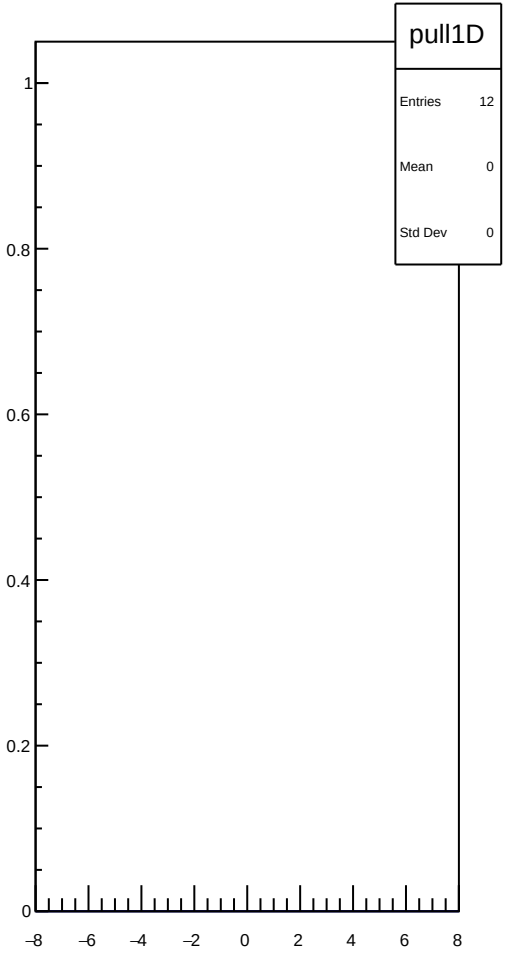

yield_cav4dQ_mean vs run
χ² / ndf 3.142e+04 / 11
p0 125.9 ± 0.0008156
126.2
126.1
126
125.9
125.8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

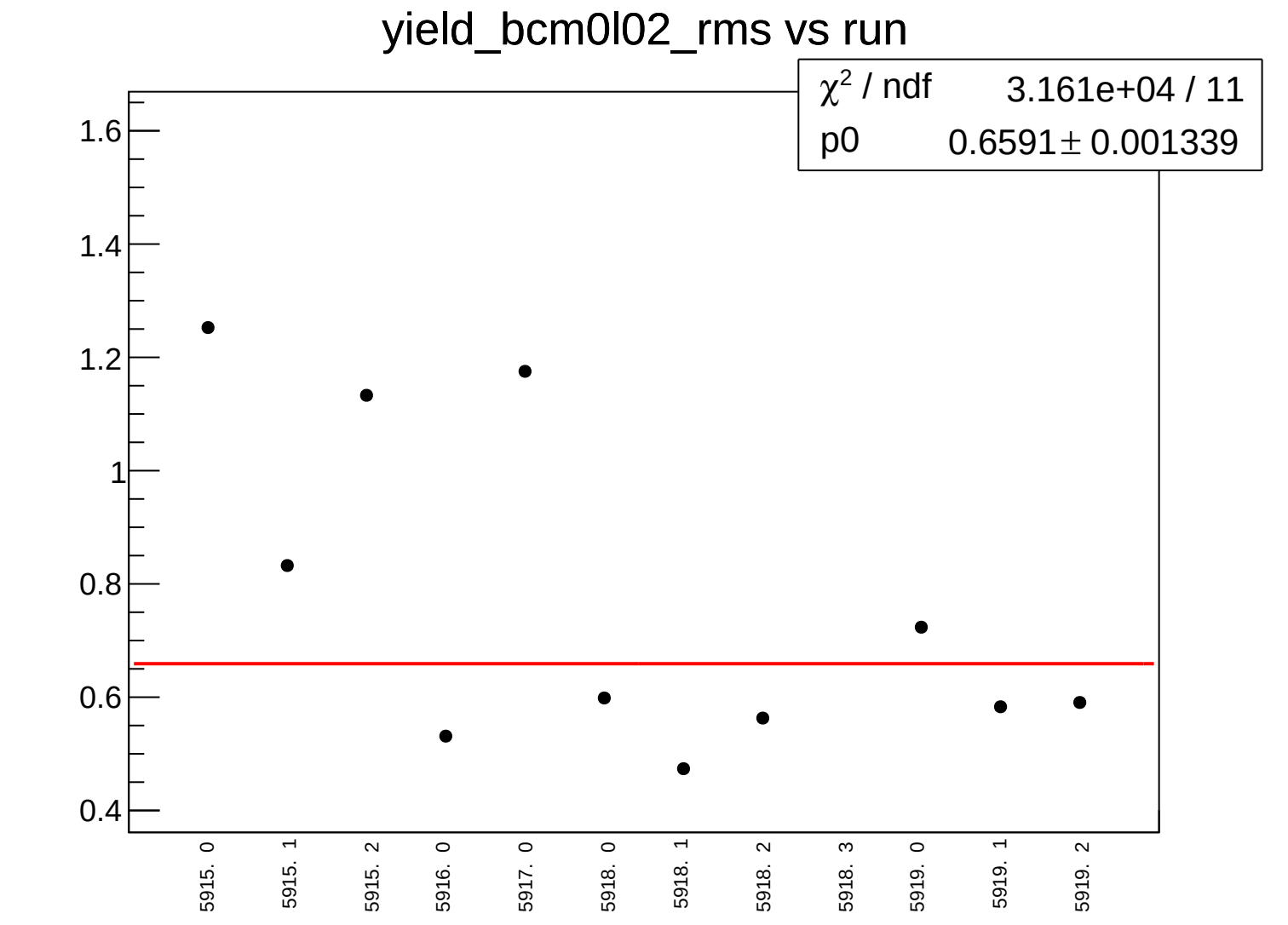

pull
Entries 12
Mean −5.963
Std Dev 11.19
140
120
100
80
60
40
20
0
−20
−40
−60

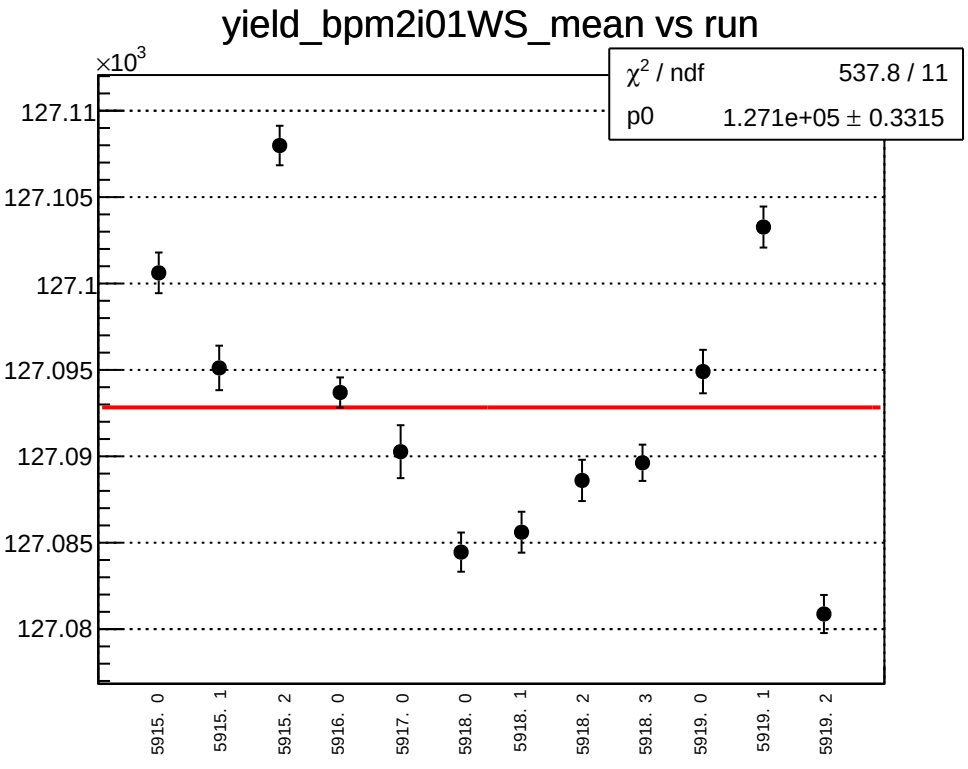

pull1D
Entries 12
Mean 1.359
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

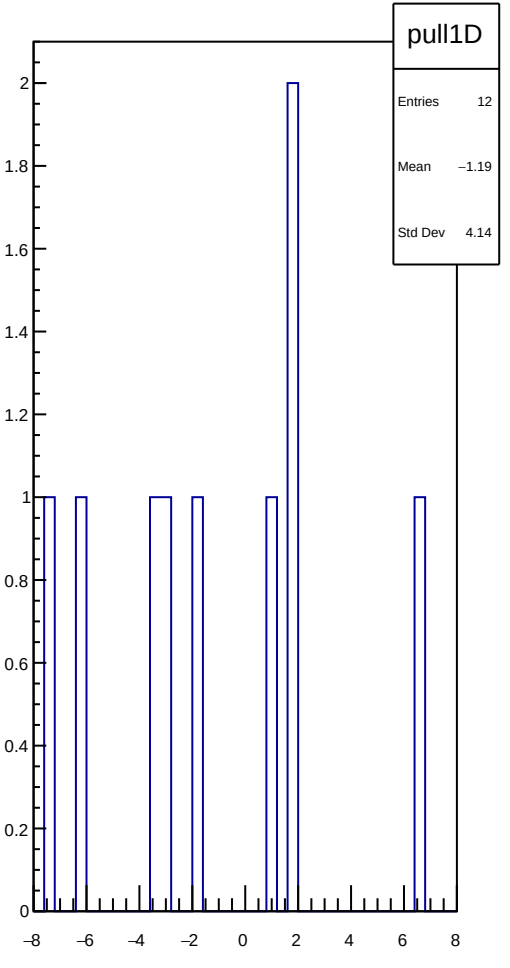

yield_cav4dQ_rms vs run
χ² / ndf 1.63e+04 / 11
p0 0.2928 ± 0.0005767
0.4
0.35
0.3
0.25
0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

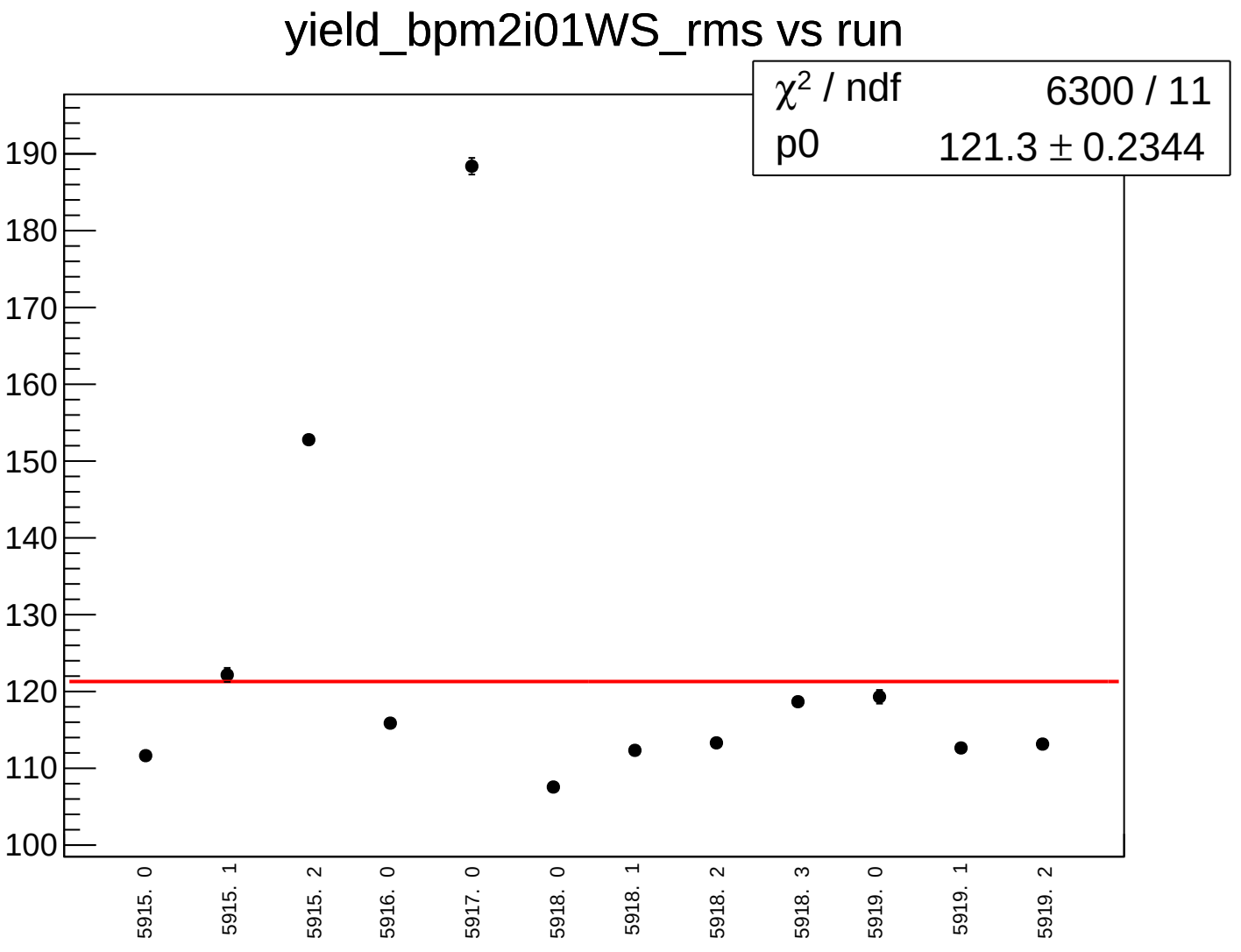

yield_bcm0l02_mean vs run
χ² / ndf 2.971e+05 / 11
p0 134.5 ± 0.001893
136.5
136
135.5
135
134.5
134
133.5
133
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.54
Std Dev 21.95
300
200
100
0
−100
−200
−300

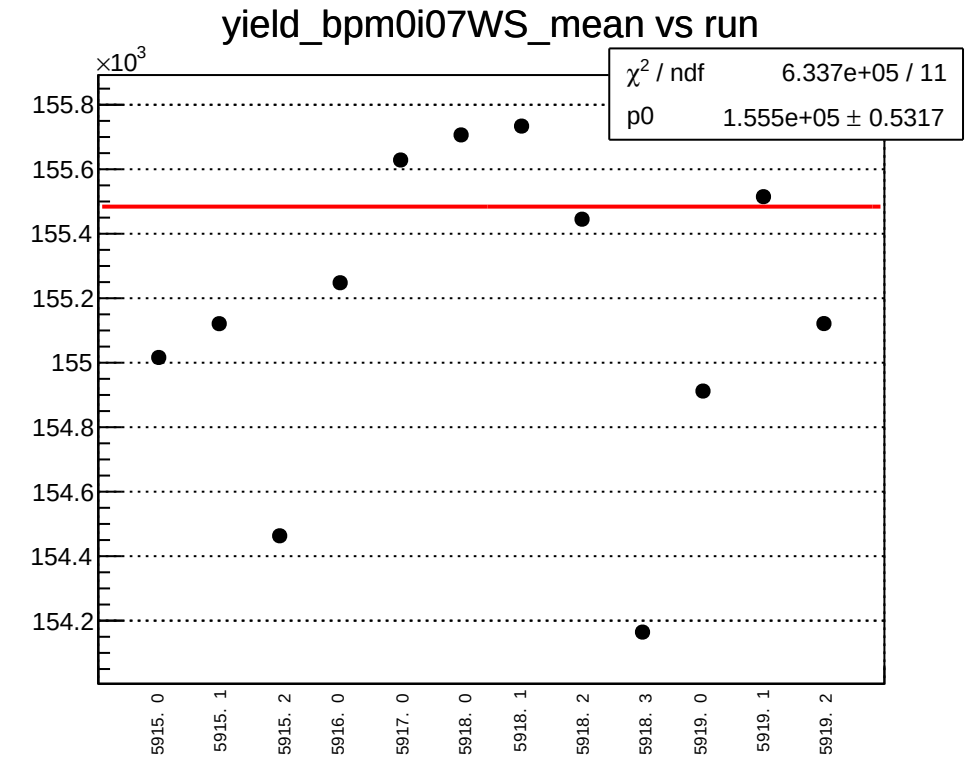

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

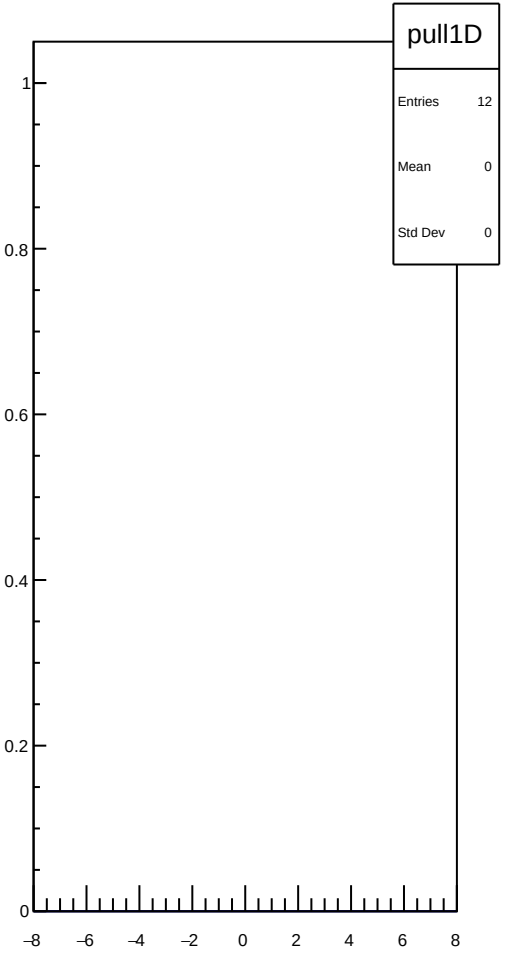

yield_bcm0l02_rms vs run
χ² / ndf 3.161e+04 / 11
p0 0.6591 ± 0.001339
1.6
1.4
1.2
1
0.8
0.6
0.4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

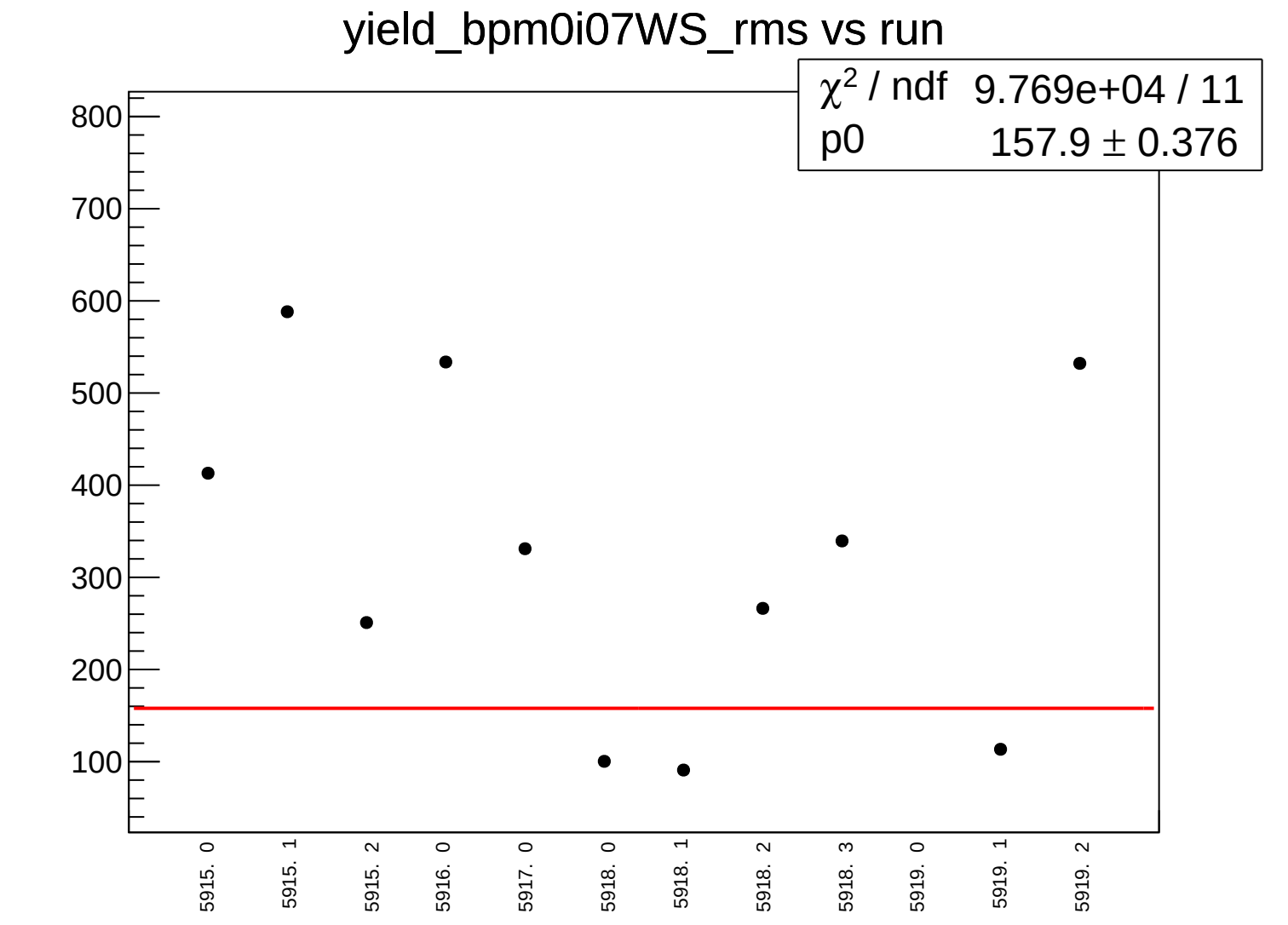

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 537.8 / 11
p0 1.271e+05 ± 0.3315
127.11
127.105
127.1
127.095
127.09
127.085
127.08
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −228.9
Std Dev 233.9
10
5
0
−5
−10

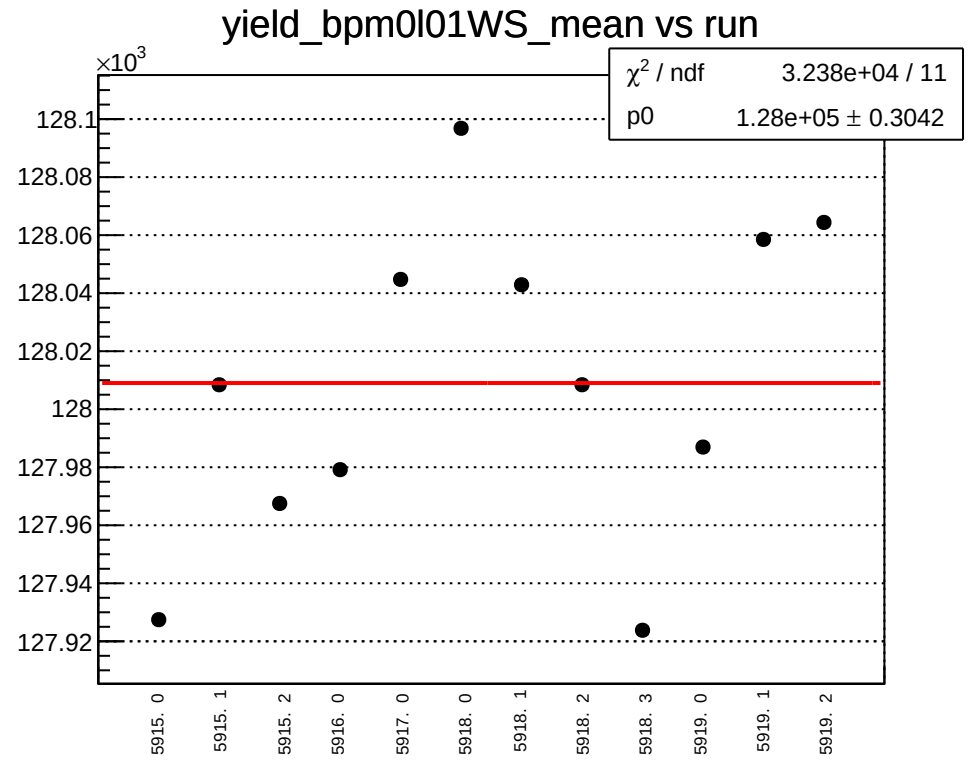

pull1D
Entries 12
Mean −1.19
Std Dev 4.14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

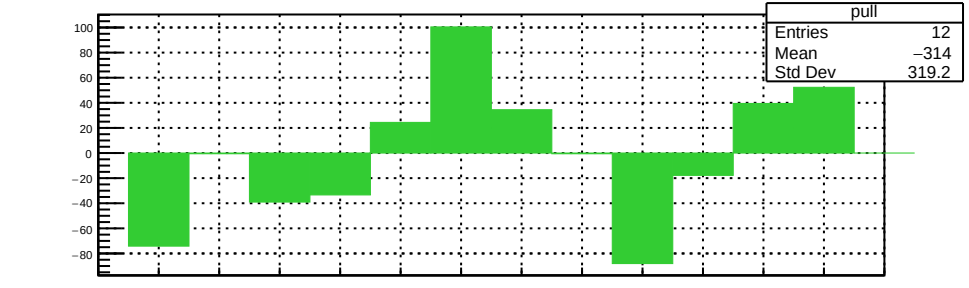

yield_bpm2i01WS_rms vs run
χ² / ndf 6300 / 11
p0 121.3 ± 0.2344
190
180
170
160
150
140
130
120
110
100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

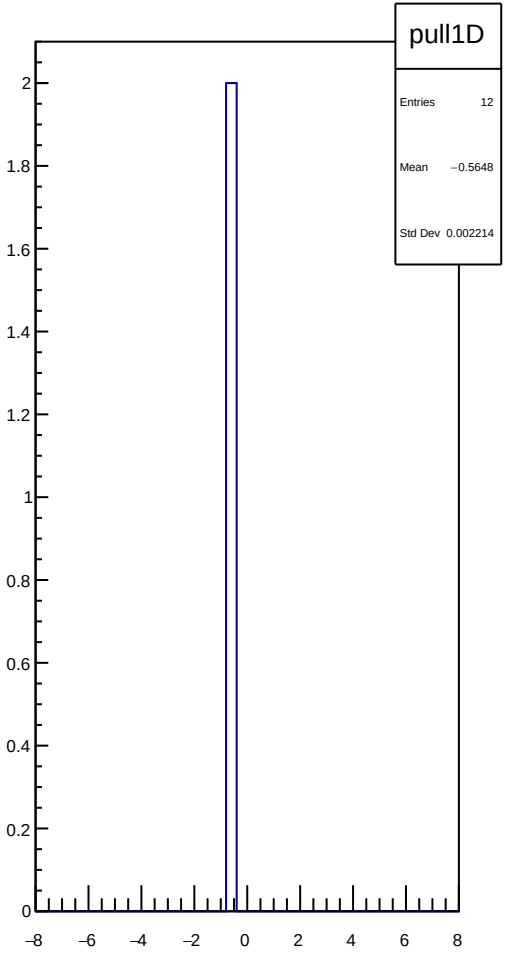

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 6.337e+05 / 11
p0 1.555e+05 ± 0.5317
155.8
155.6
155.4
155.2
155
154.8
154.6
154.4
154.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.513
Std Dev 4.248
300
200
100
0
−100
−200
−300
−400
−500

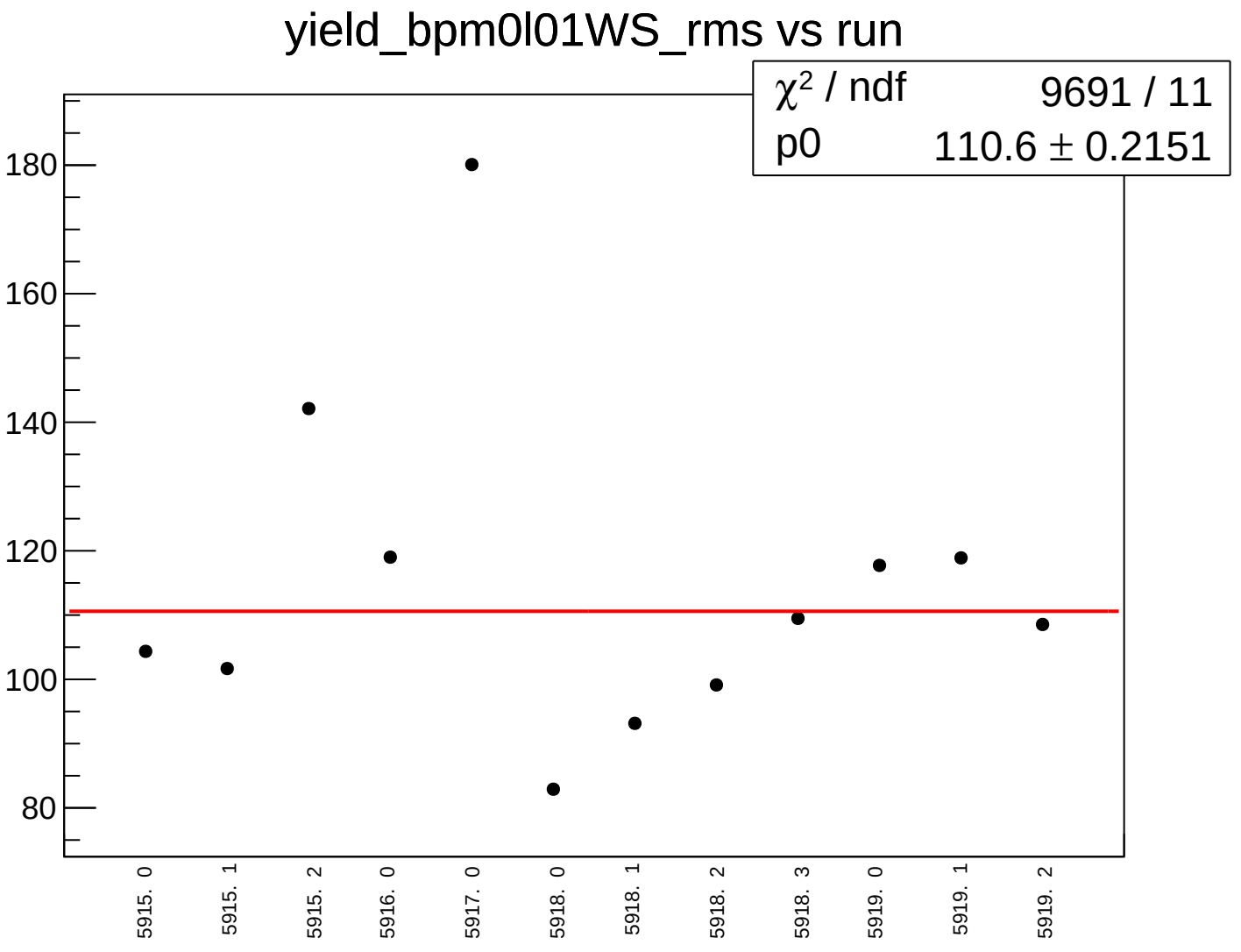

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

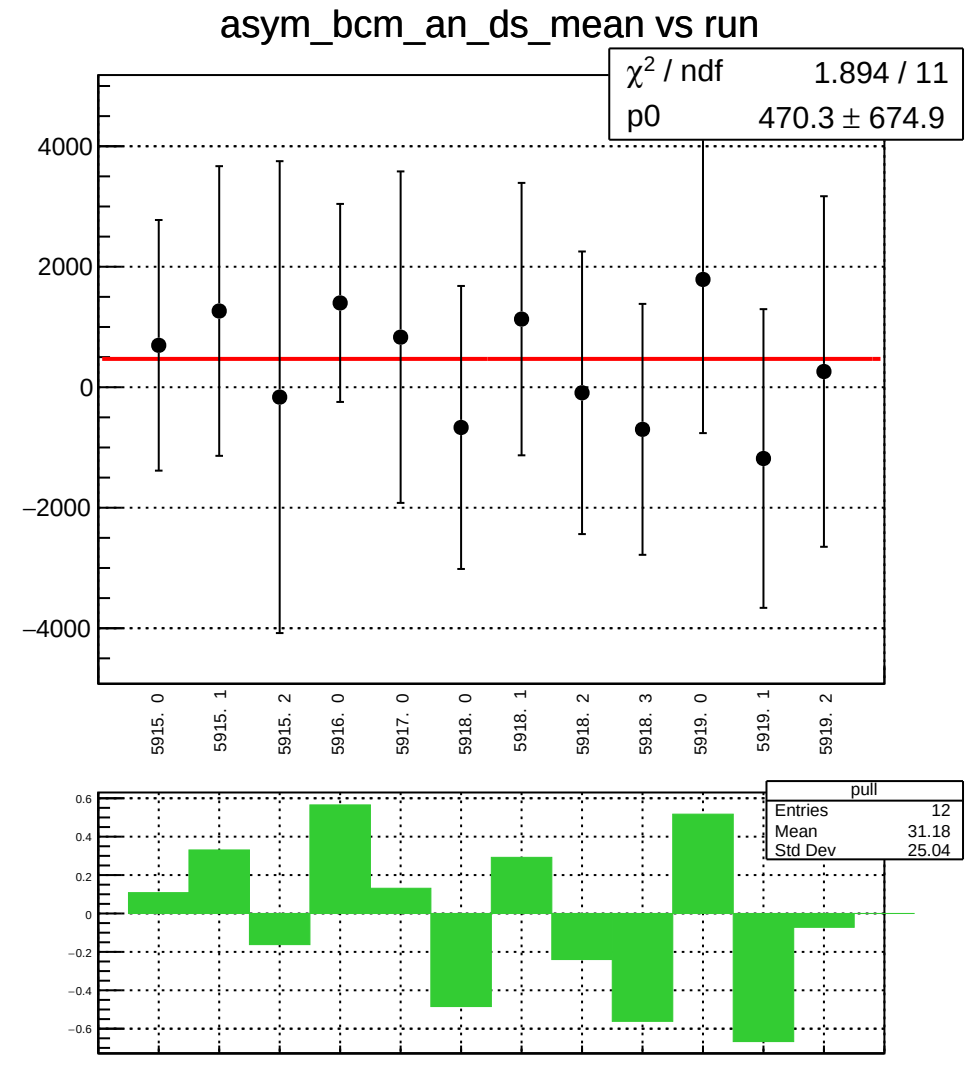

yield_bpm0i07WS_rms vs run
χ² / ndf 9.769e+04 / 11
p0 157.9 ± 0.376
800
700
600
500
400
300
200
100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

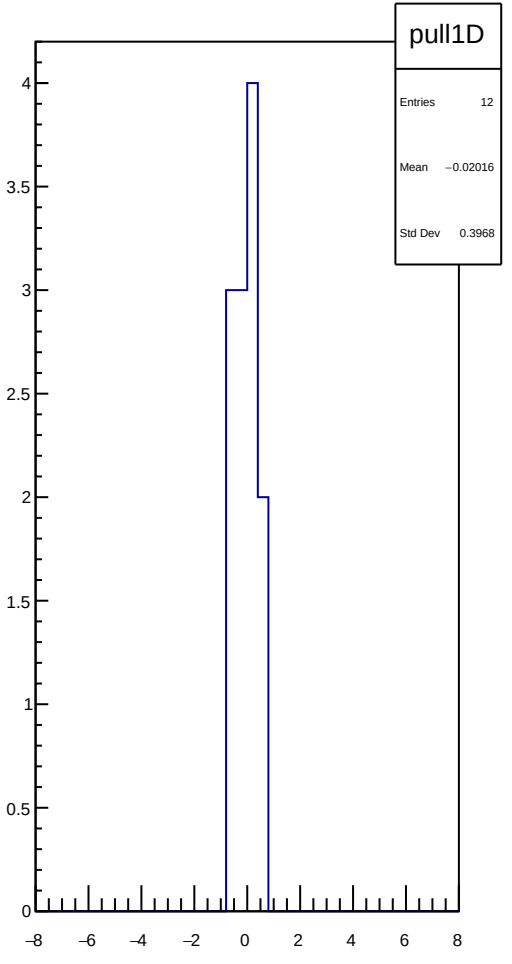

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 3.238e+04 / 11
p0 1.28e+05 ± 0.3042
128.1
128.08
128.06
128.04
128.02
128
127.98
127.96
127.94
127.92
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

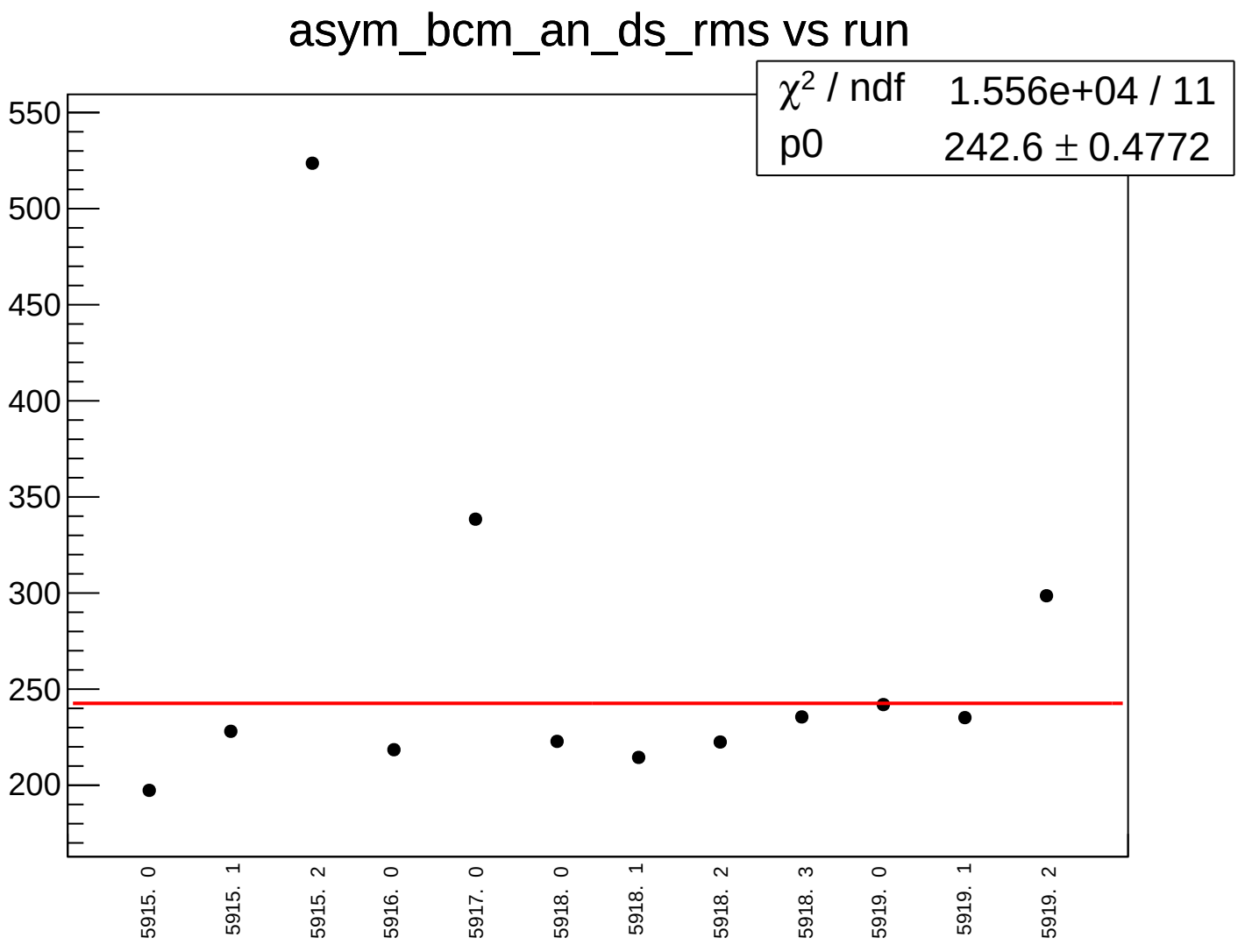

pull
Entries 12
Mean −314
Std Dev 319.2
100
80
60
40
20
0
−20
−40
−60
−80

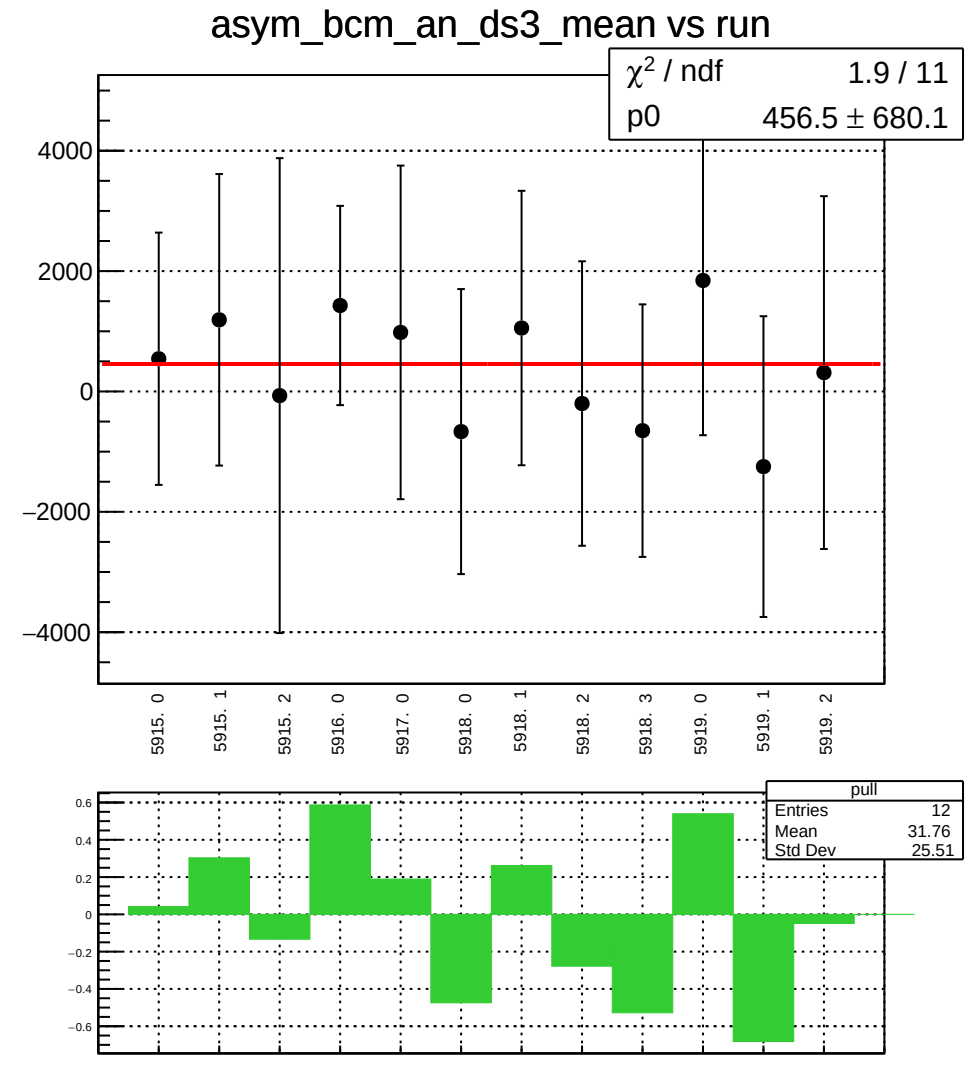

pull1D
Entries 12
Mean −0.5648
Std Dev 0.002214
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

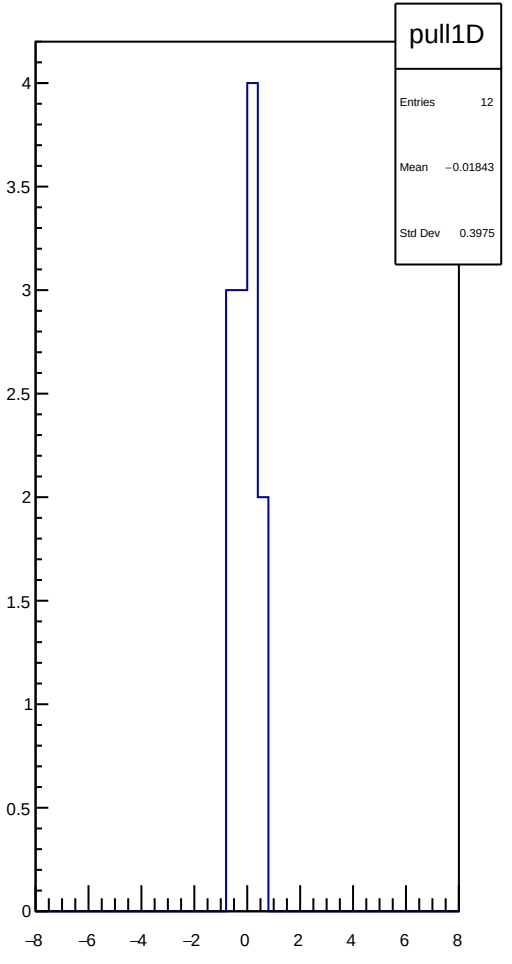

yield_bpm0l01WS_rms vs run
χ² / ndf 9691 / 11
p0 110.6 ± 0.2151
180
160
140
120
100
80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

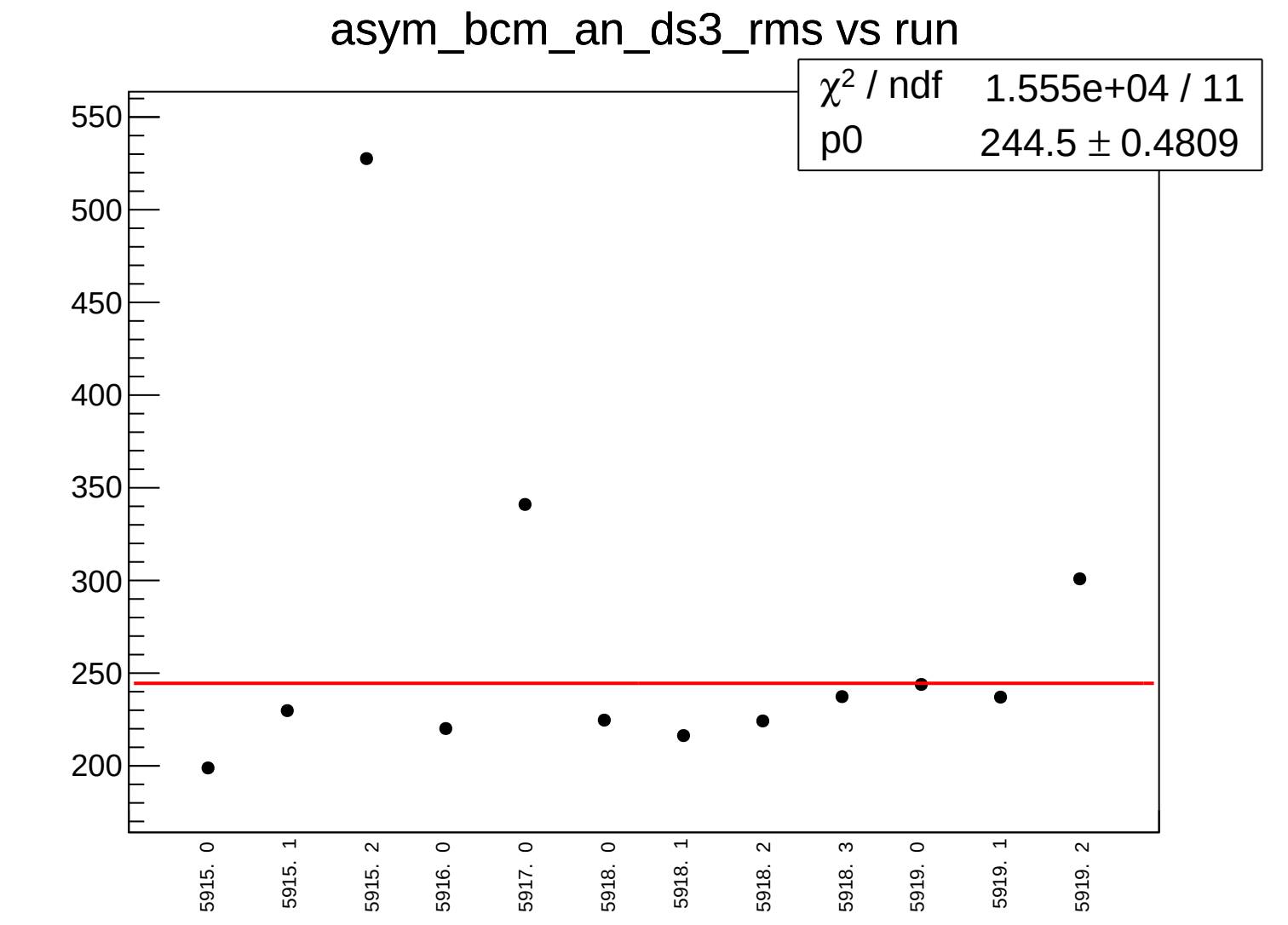

asym_bcm_an_ds_mean vs run
χ² / ndf 1.894 / 11
p0 470.3 ± 674.9
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 31.18
Std Dev 25.04
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

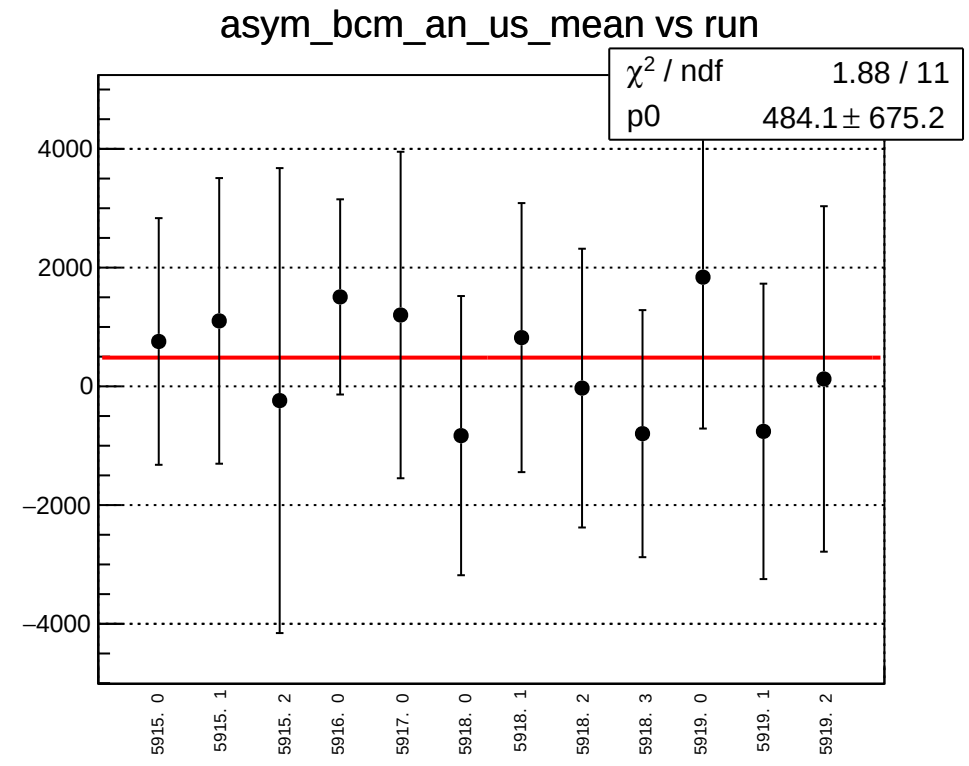

pull1D
Entries 12
Mean −0.02016
Std Dev 0.3968
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

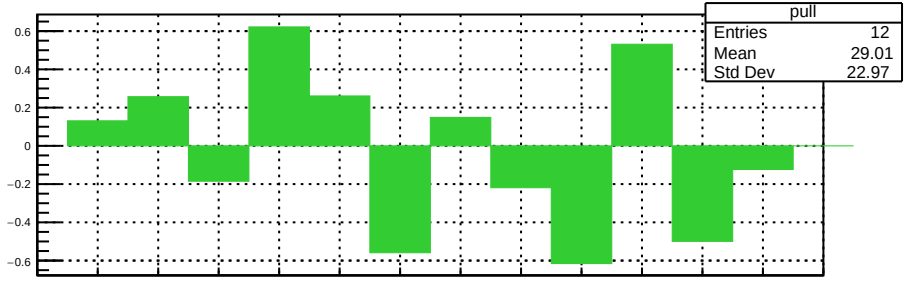

asym_bcm_an_ds_rms vs run
χ² / ndf 1.556e+04 / 11
p0 242.6 ± 0.4772
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

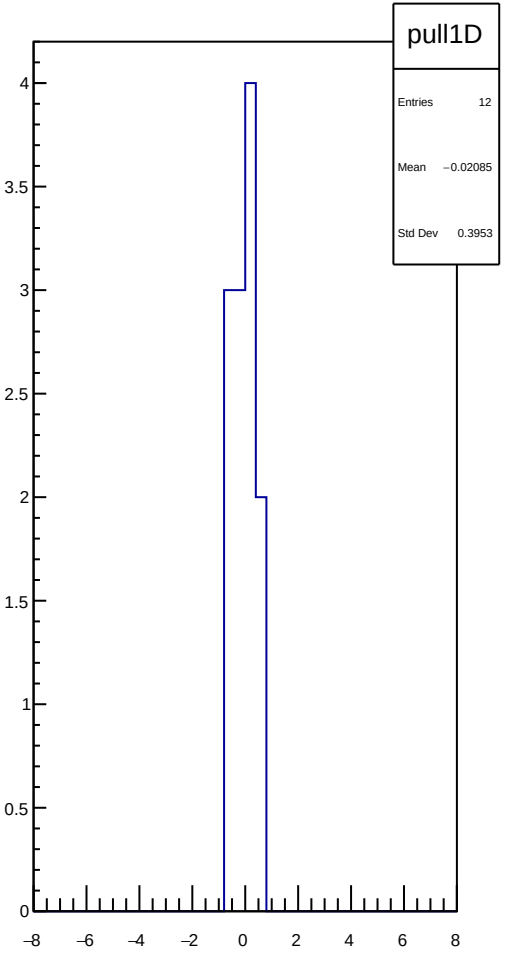

asym_bcm_an_ds3_mean vs run
χ² / ndf 1.9 / 11
p0 456.5 ± 680.1
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 31.76
Std Dev 25.51
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

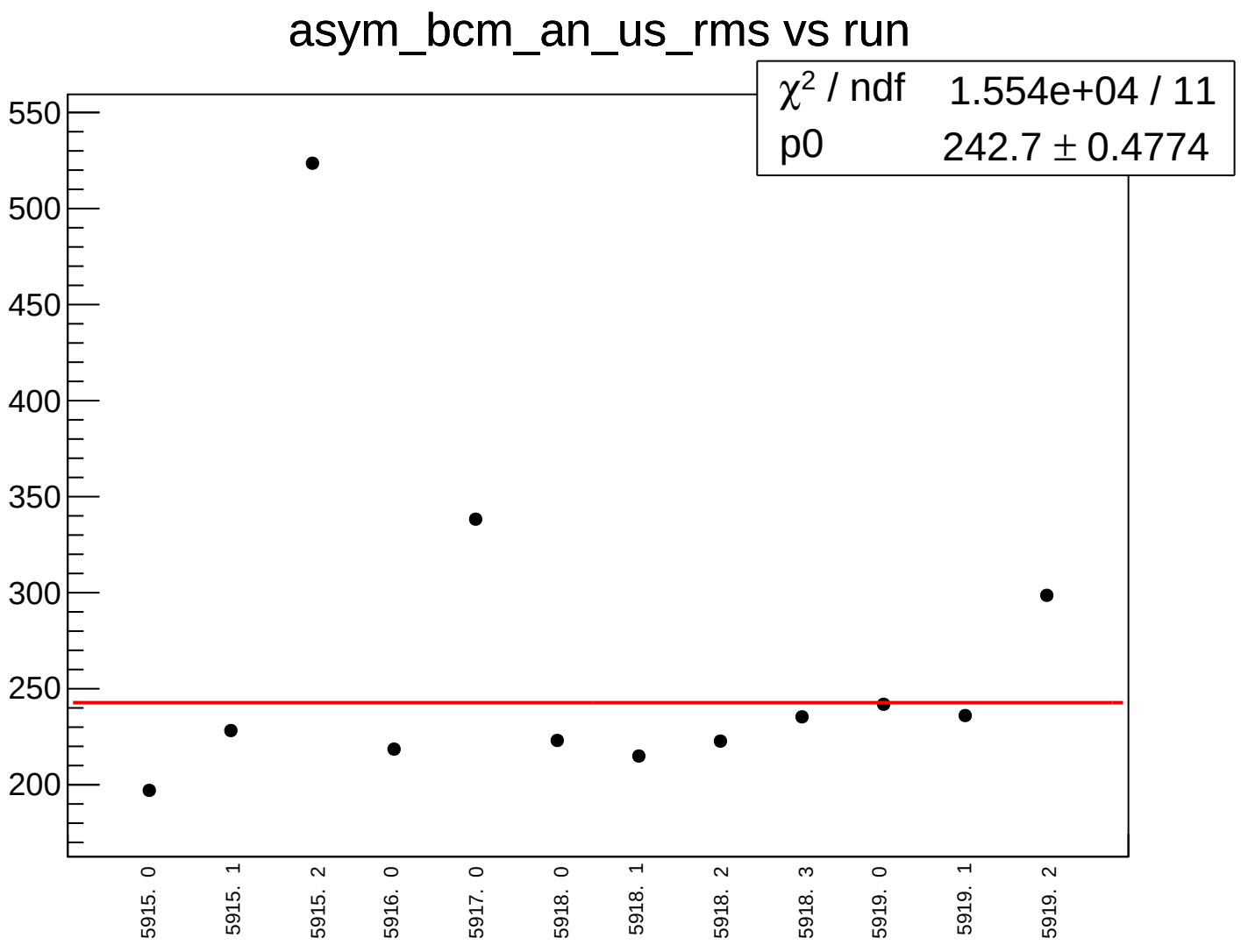

pull1D
Entries 12
Mean −0.01843
Std Dev 0.3975
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

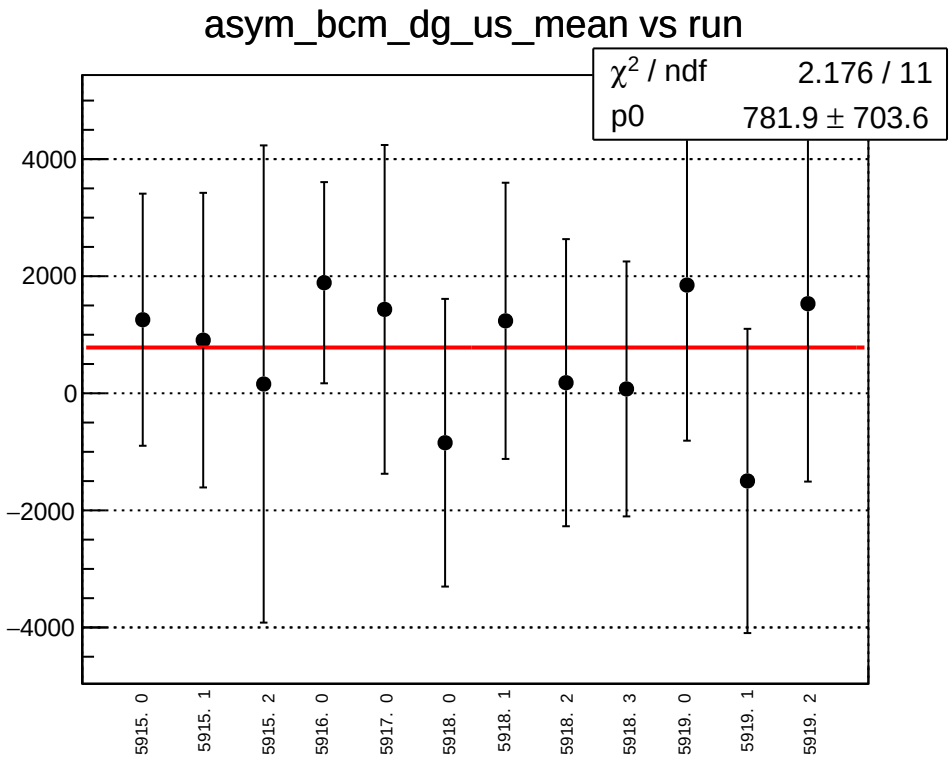

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.555e+04 / 11
p0 244.5 ± 0.4809
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

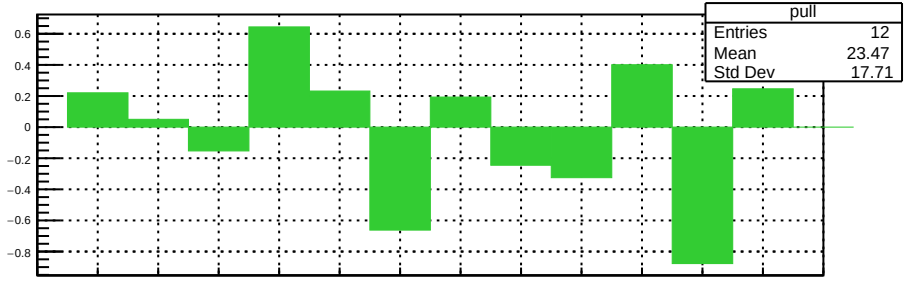

asym_bcm_an_us_mean vs run
χ² / ndf 1.88 / 11
p0 484.1 ± 675.2
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

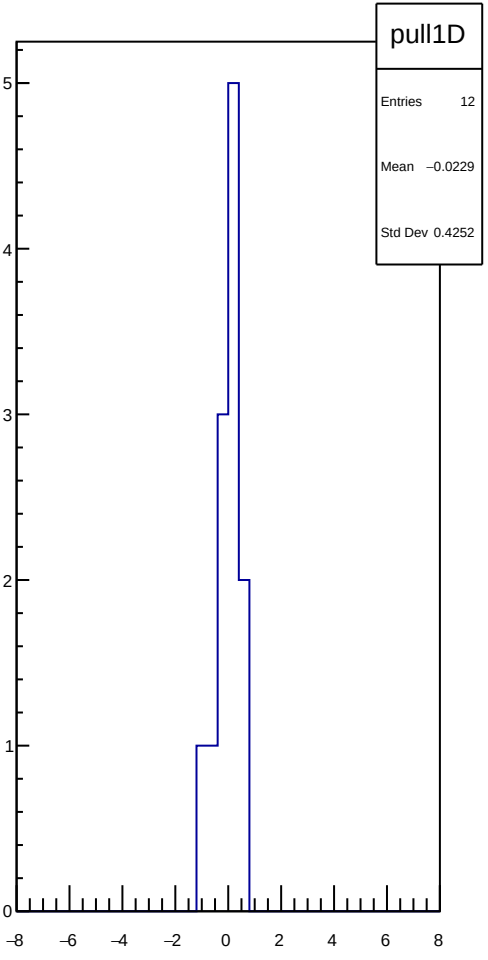

pull
Entries 12
Mean 29.01
Std Dev 22.97
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

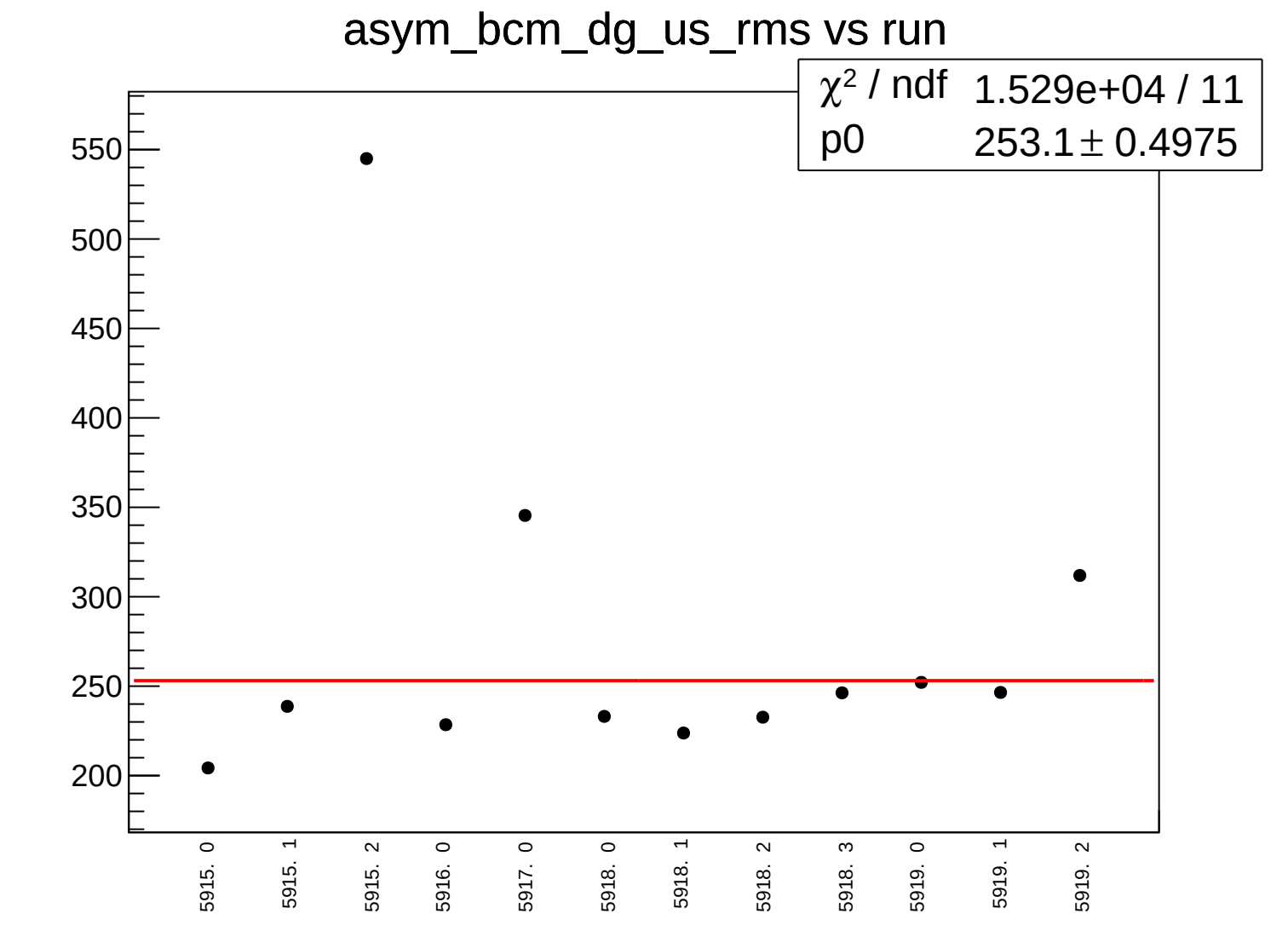

pull1D
Entries 12
Mean −0.02085
Std Dev 0.3953
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

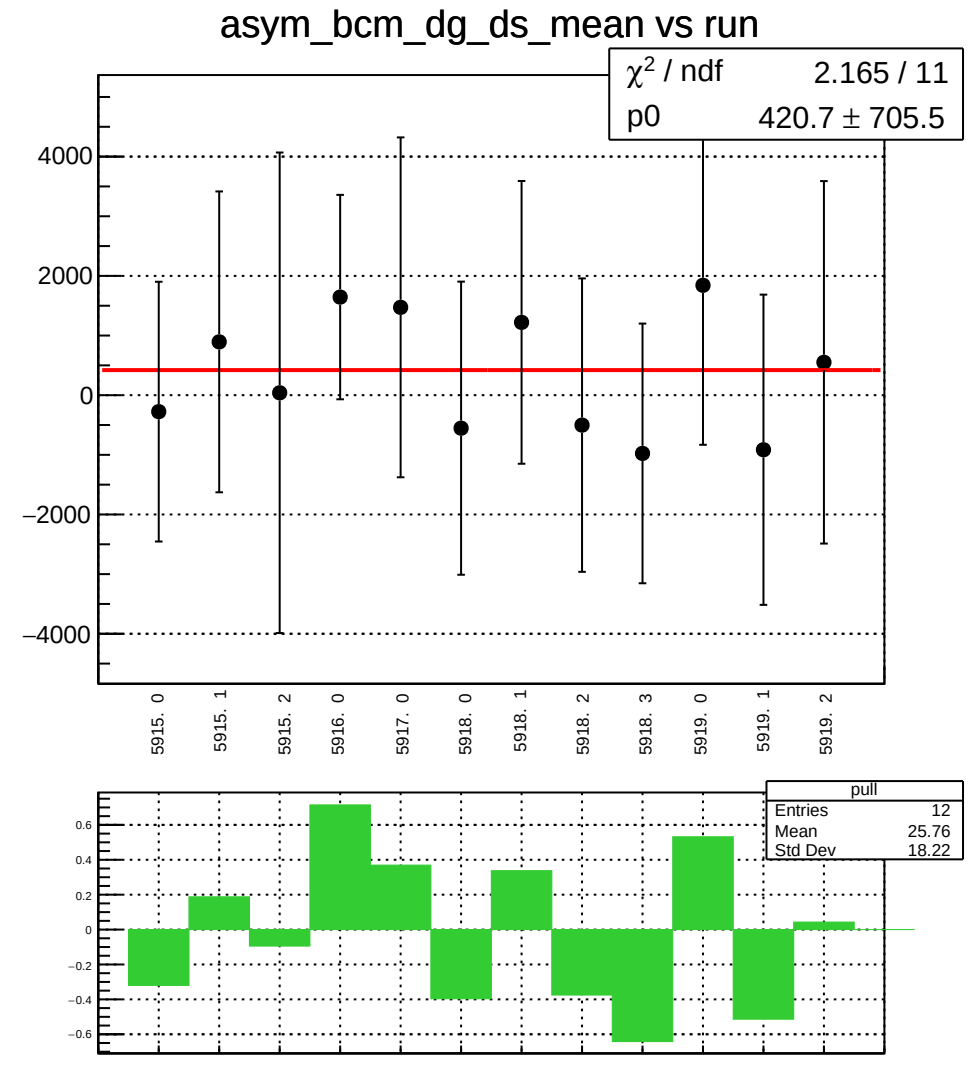

asym_bcm_an_us_rms vs run
χ² / ndf 1.554e+04 / 11
p0 242.7 ± 0.4774
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

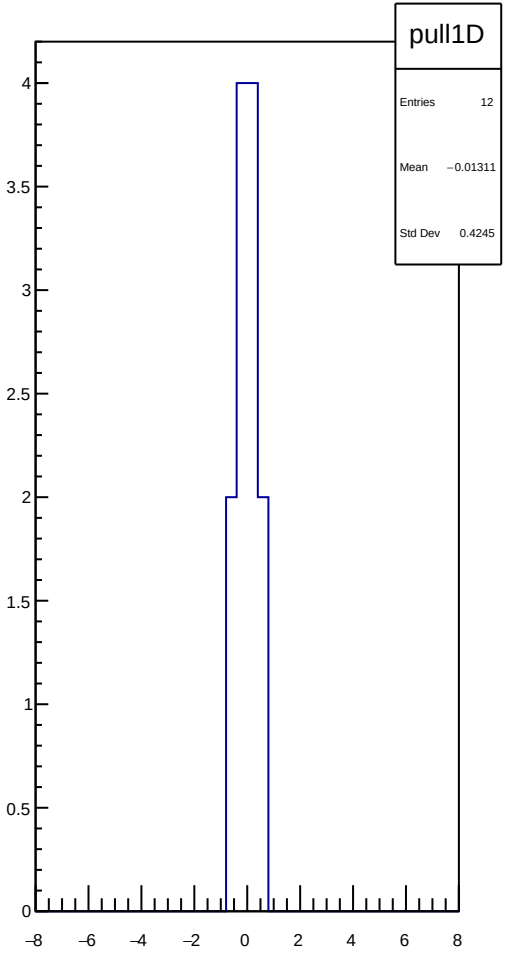

asym_bcm_dg_us_mean vs run
χ² / ndf 2.176 / 11
p0 781.9 ± 703.6
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

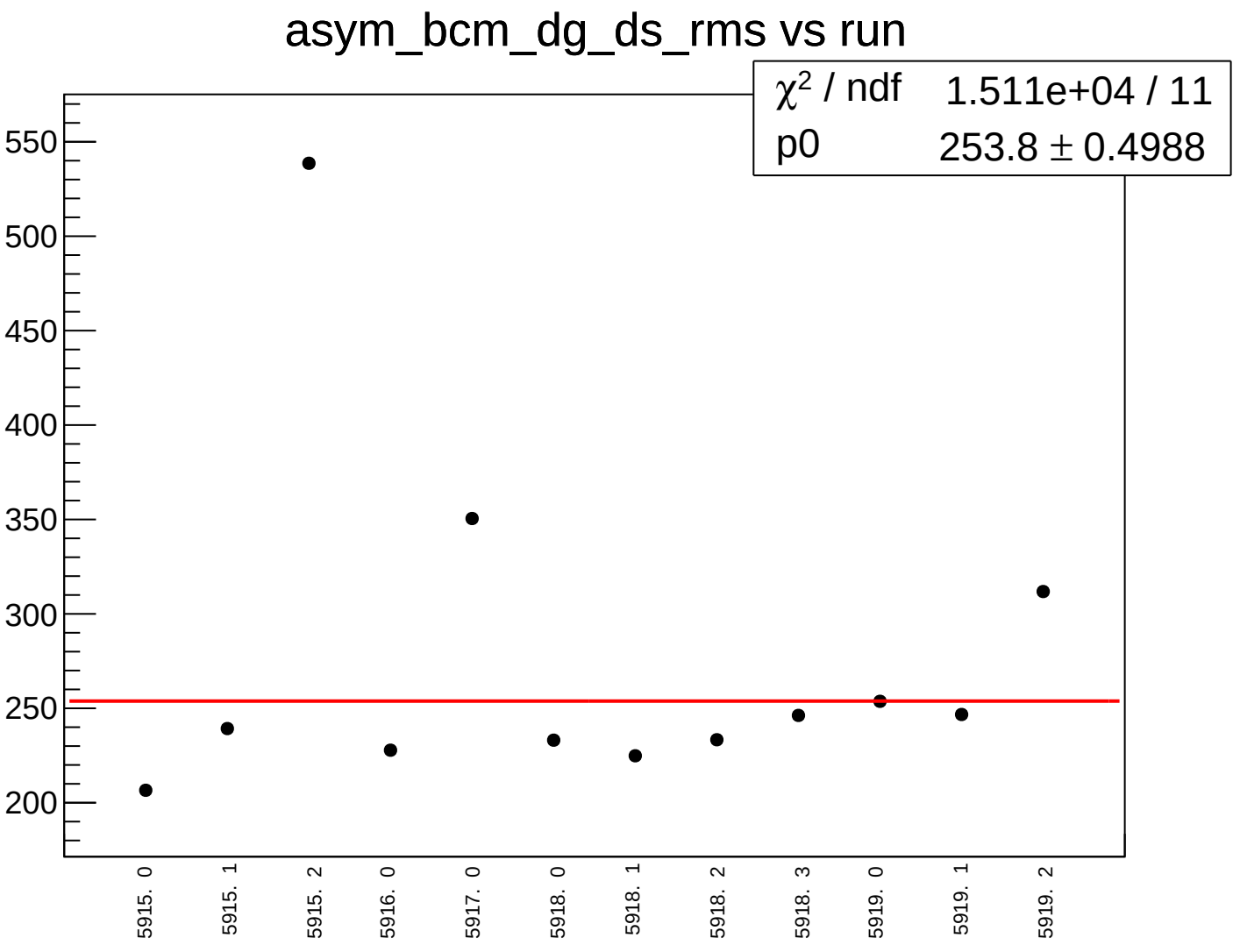

pull
Entries 12
Mean 23.47
Std Dev 17.71
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

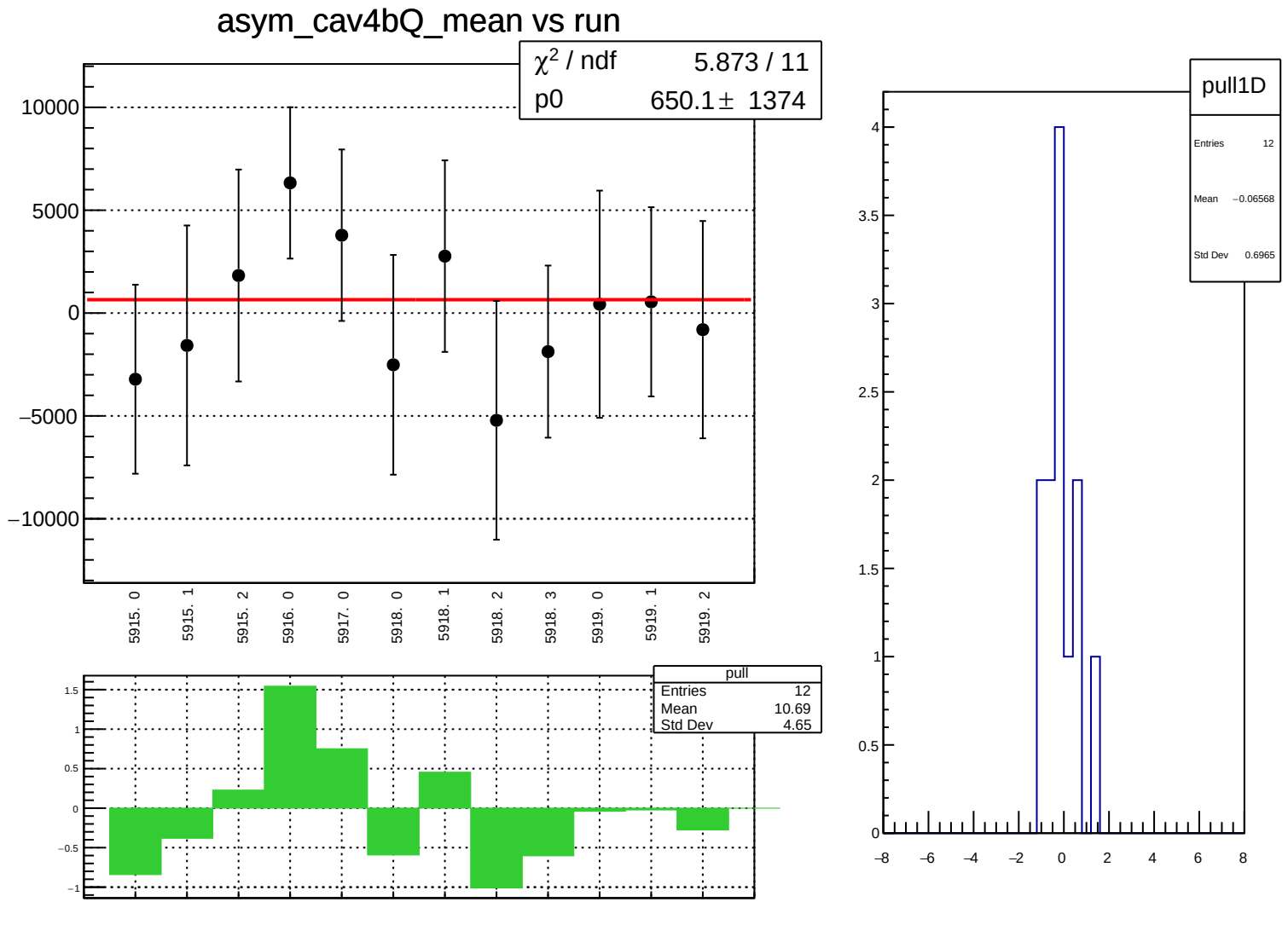

pull1D
Entries 12
Mean −0.0229
Std Dev 0.4252
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

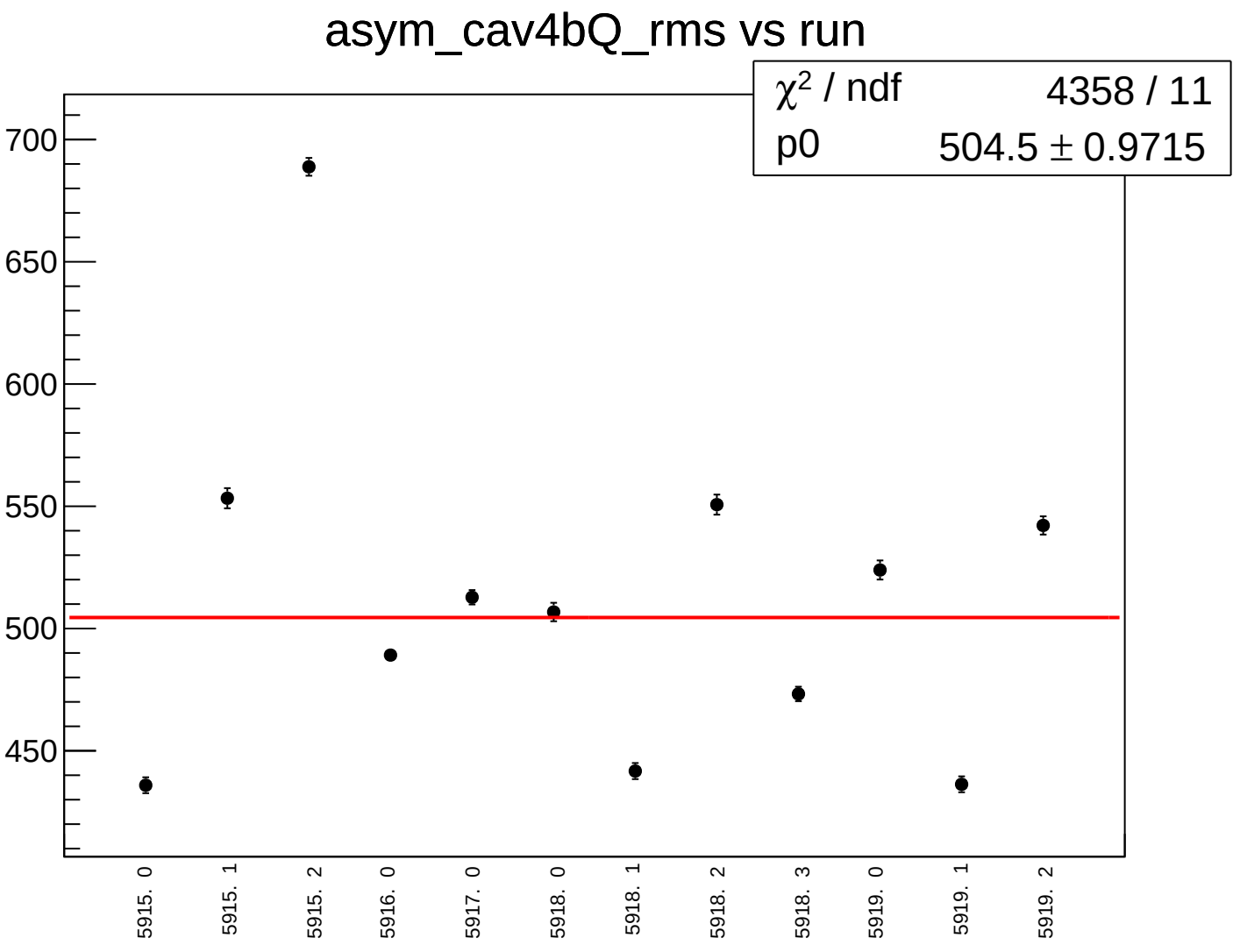

asym_bcm_dg_us_rms vs run
χ² / ndf 1.529e+04 / 11
p0 253.1 ± 0.4975
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

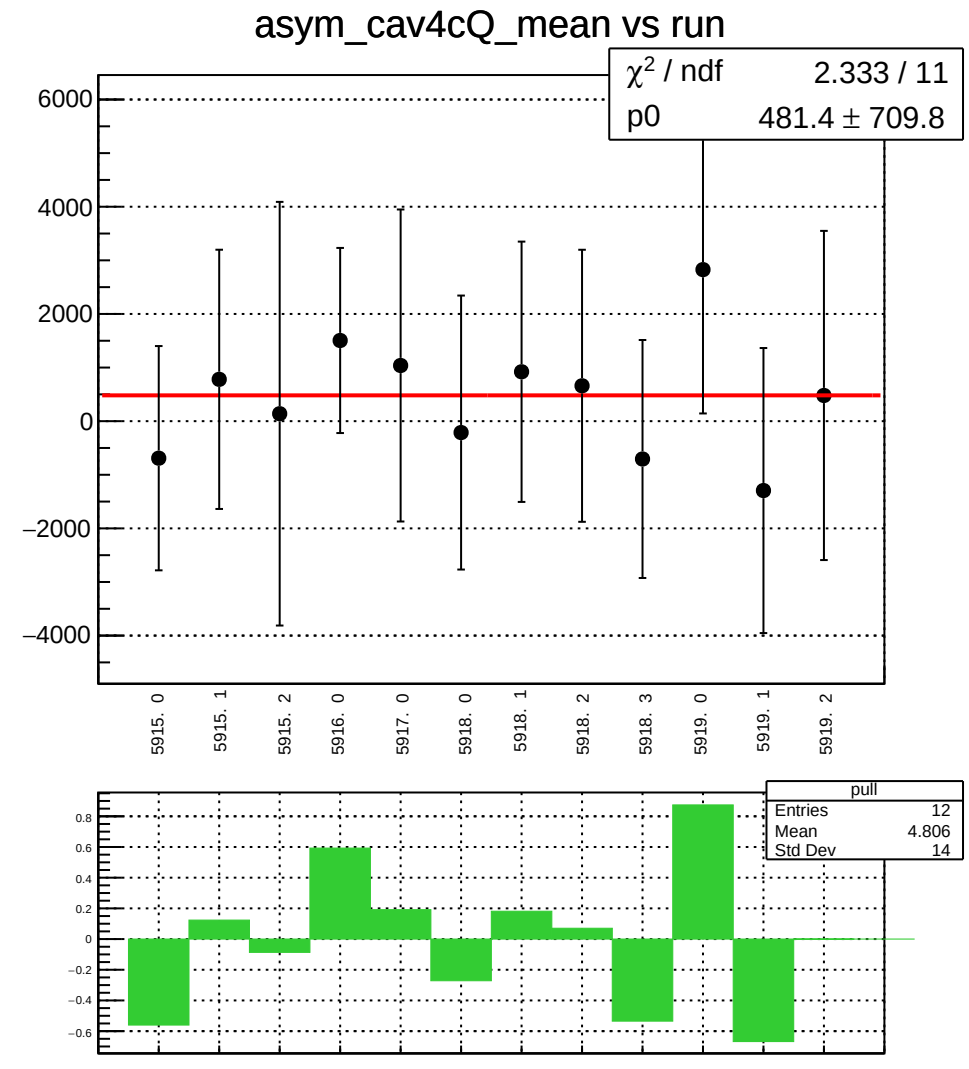

asym_bcm_dg_ds_mean vs run
χ² / ndf 2.165 / 11
p0 420.7 ± 705.5
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 25.76
Std Dev 18.22
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

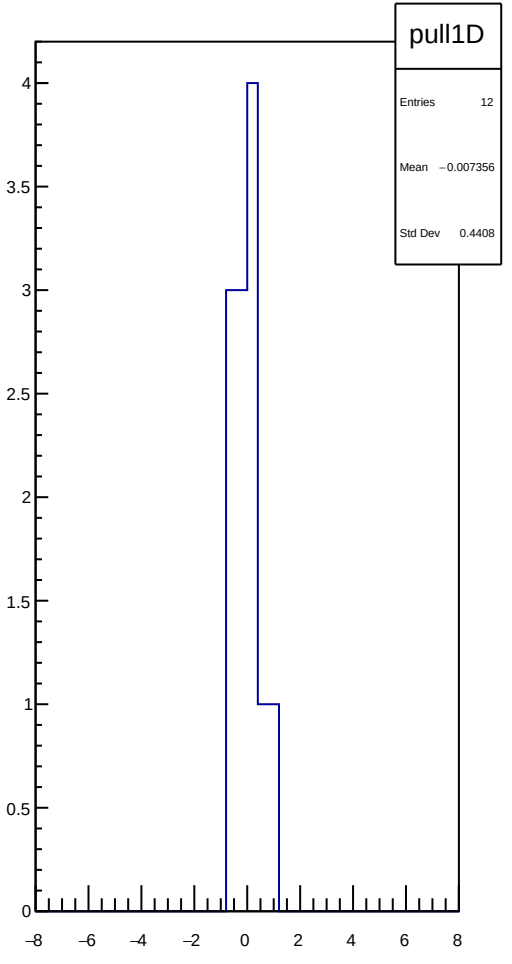

pull1D
Entries 12
Mean −0.01311
Std Dev 0.4245
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

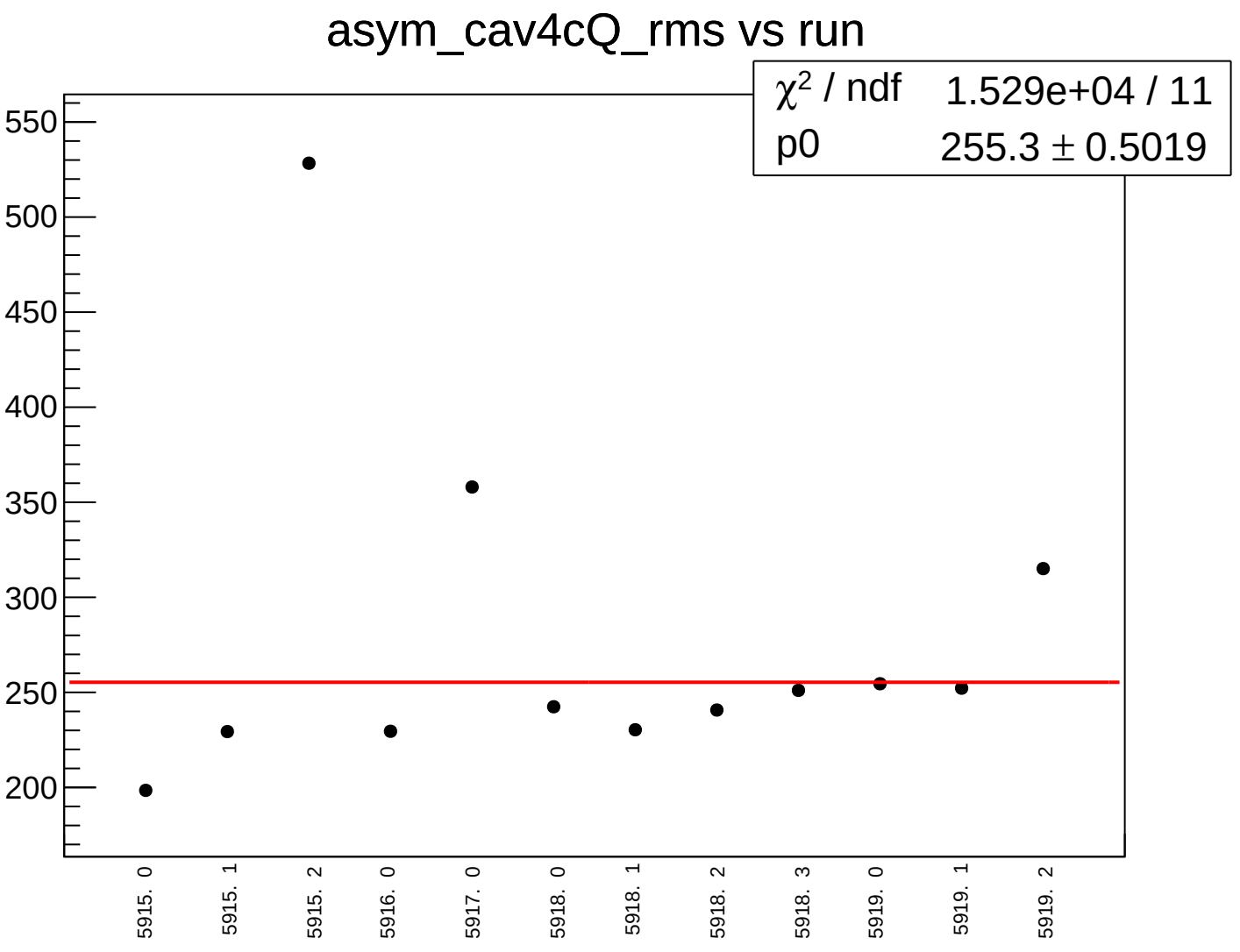

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.511e+04 / 11
p0 253.8 ± 0.4988
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

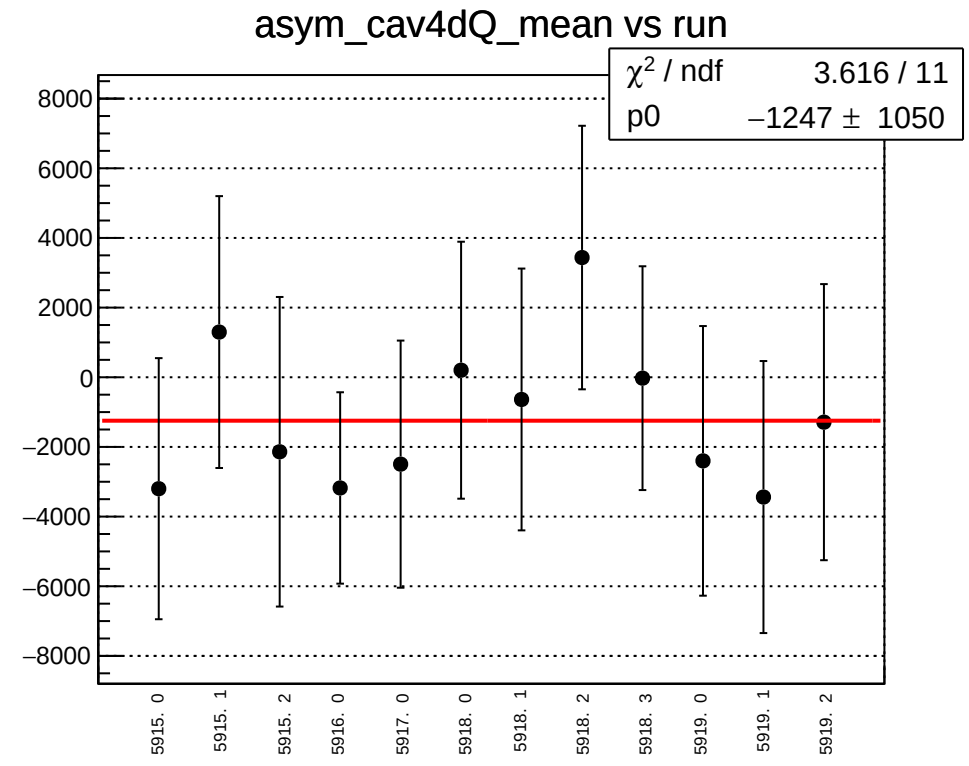

asym_cav4bQ_mean vs run
χ² / ndf 5.873 / 11
p0 650.1 ± 1374
10000
5000
0
−5000
−10000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 10.69
Std Dev 4.65
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.06568
Std Dev 0.6965
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

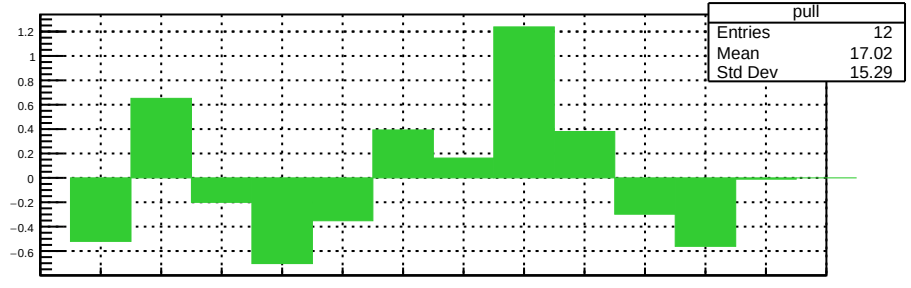

asym_cav4bQ_rms vs run
χ² / ndf 4358 / 11
p0 504.5 ± 0.9715
700
650
600
550
500
450
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

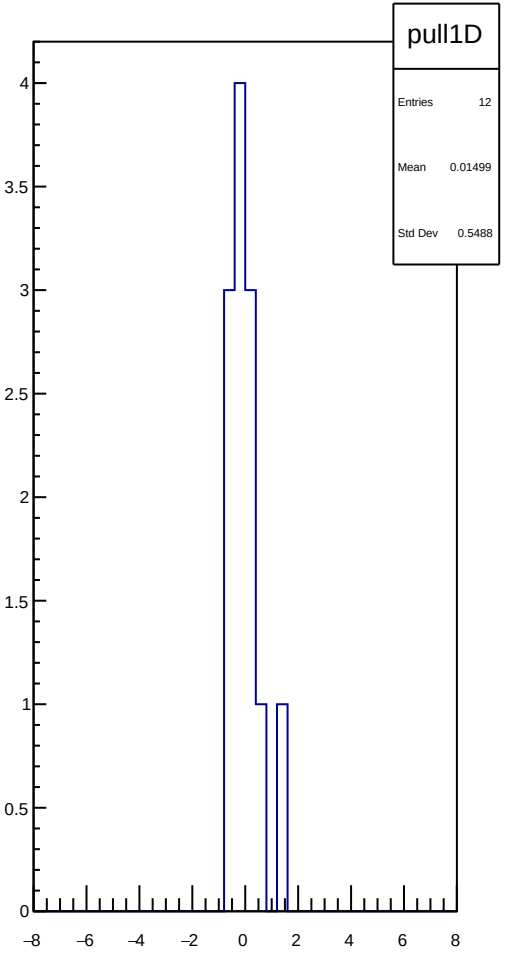

asym_cav4cQ_mean vs run
χ² / ndf 2.333 / 11
p0 481.4 ± 709.8
6000
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.806
Std Dev 14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

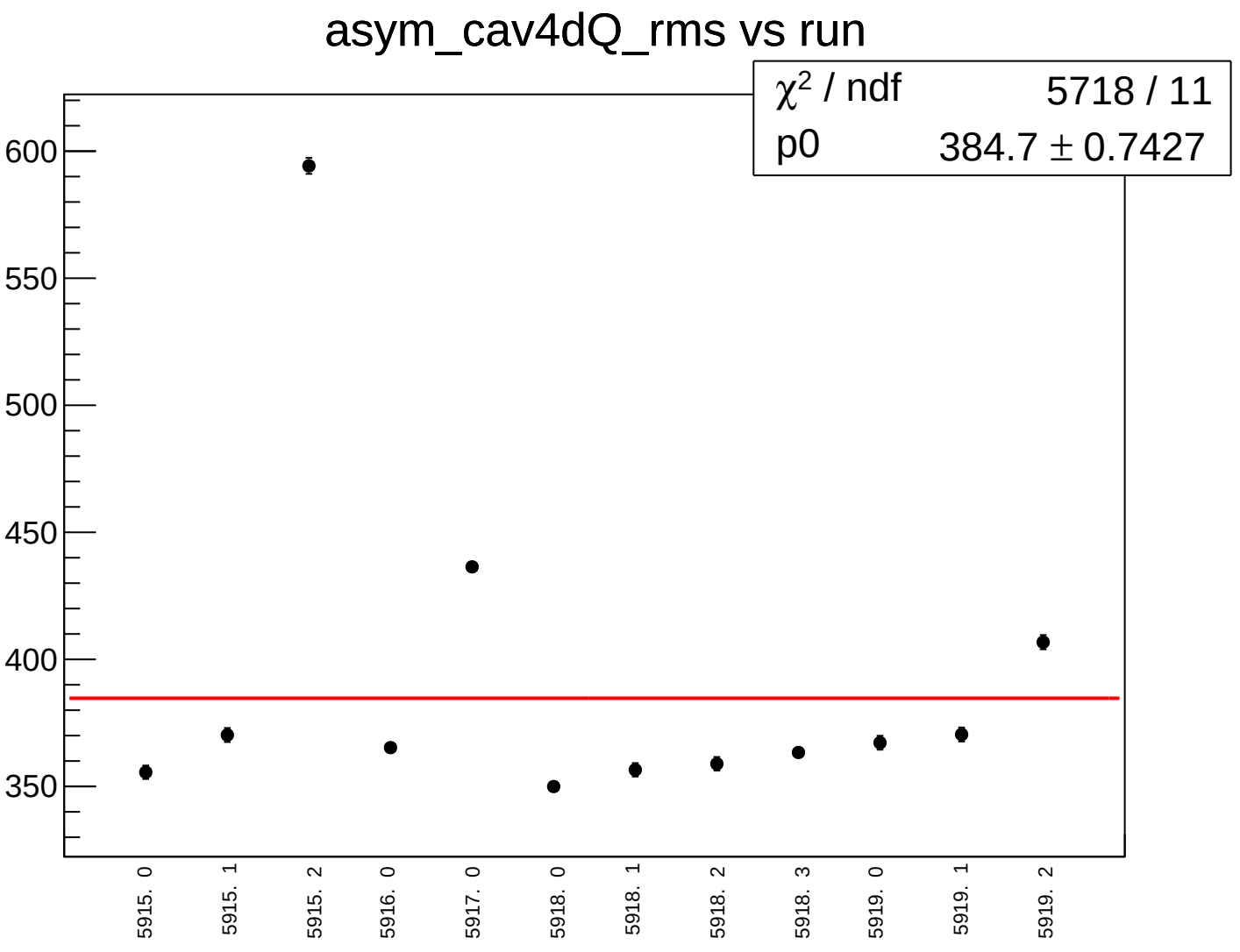

pull1D
Entries 12
Mean −0.007356
Std Dev 0.4408
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

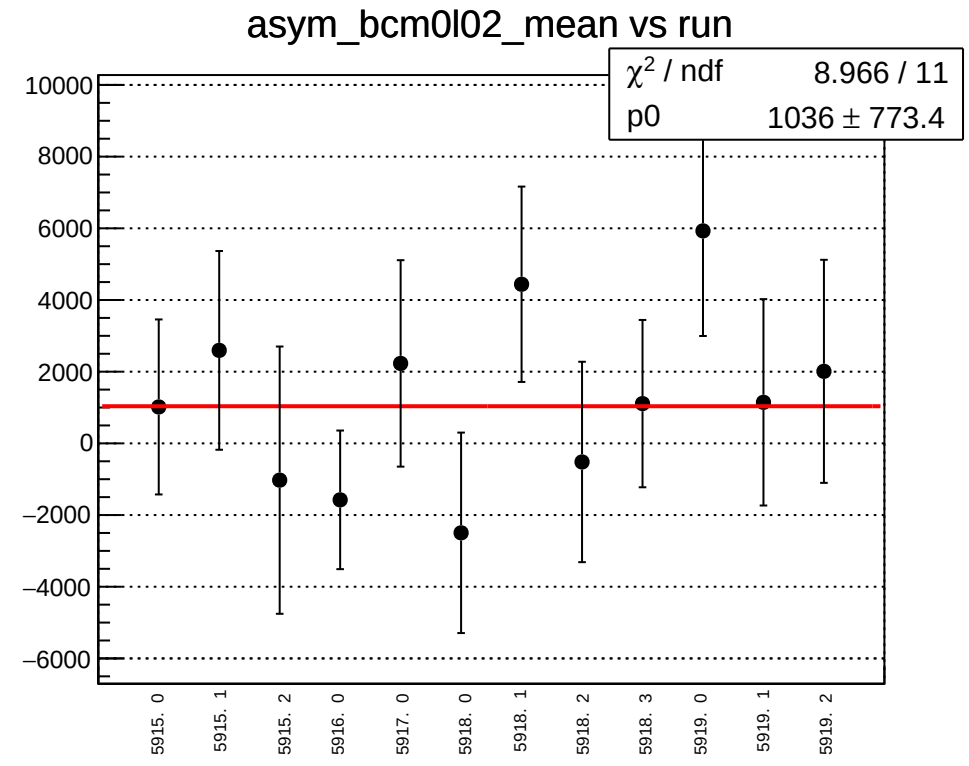

asym_cav4cQ_rms vs run
χ² / ndf 1.529e+04 / 11
p0 255.3 ± 0.5019
550
500
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

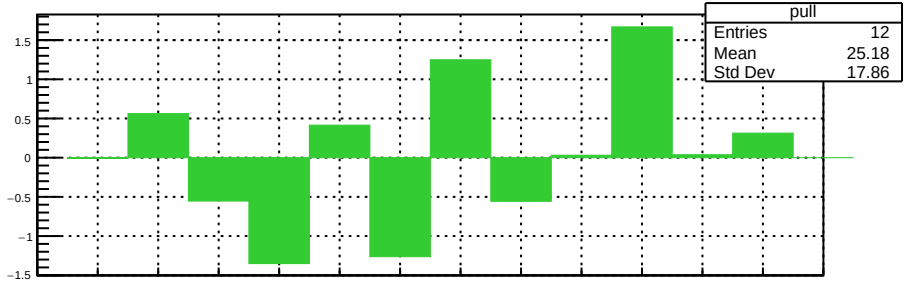

asym_cav4dQ_mean vs run
χ² / ndf 3.616 / 11
p0 −1247 ± 1050
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

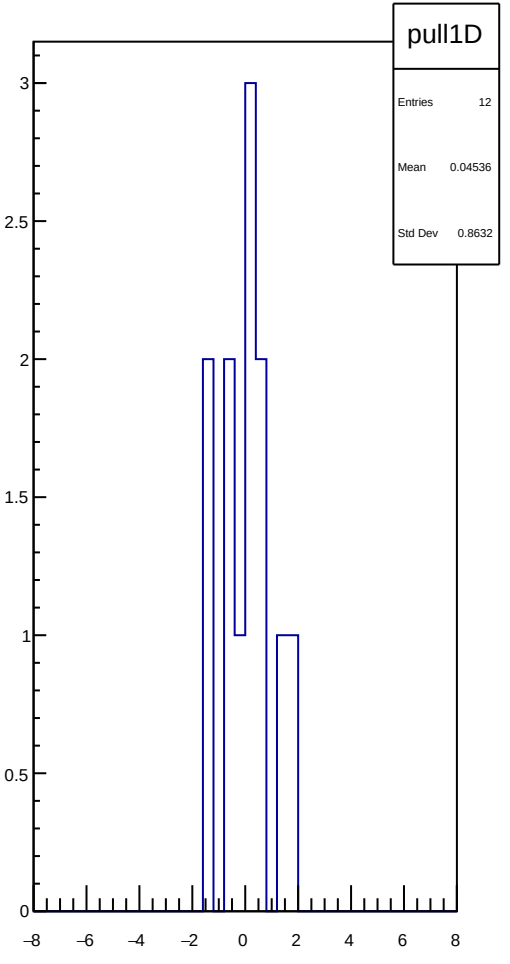

pull
Entries 12
Mean 17.02
Std Dev 15.29
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

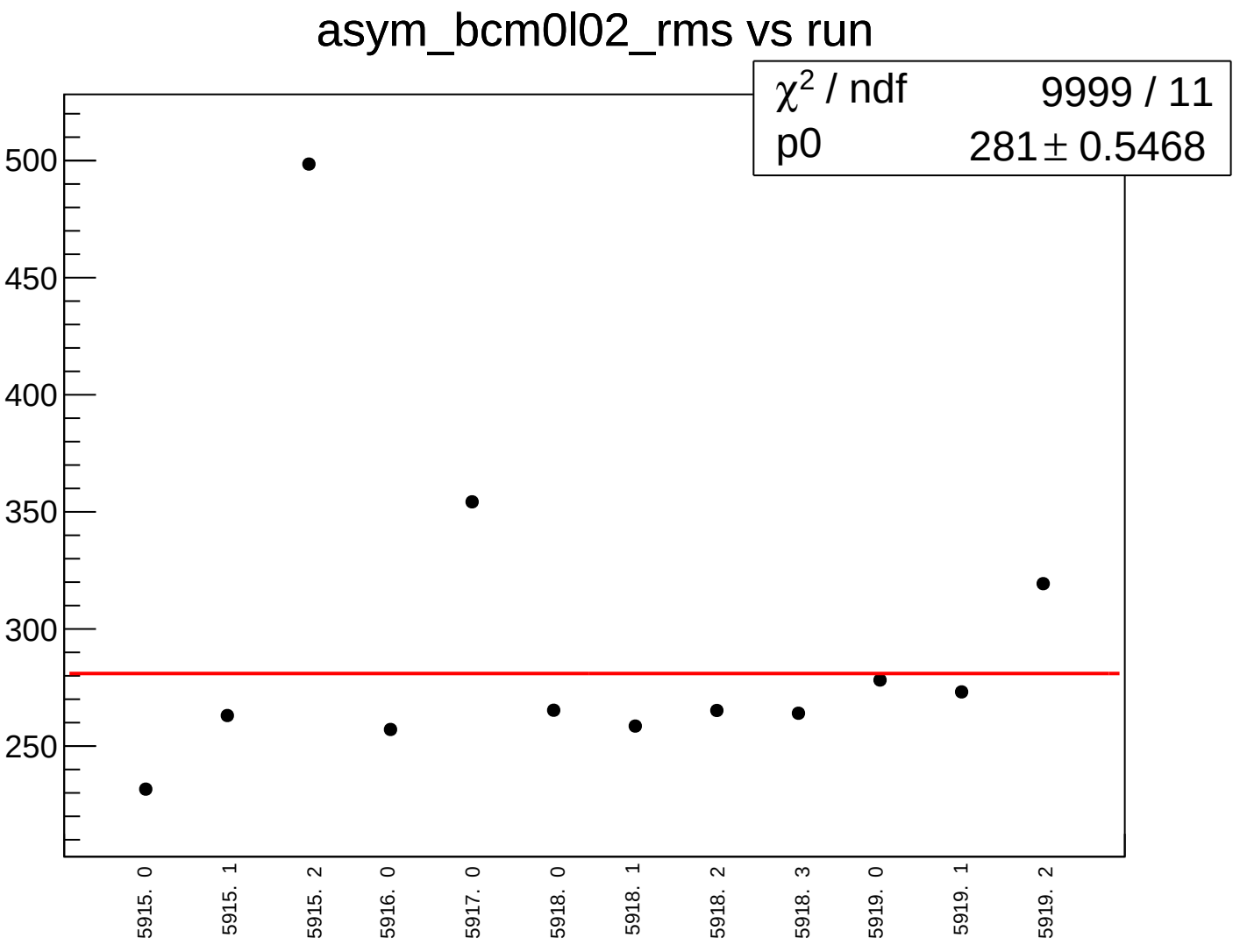

pull1D
Entries 12
Mean 0.01499
Std Dev 0.5488
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

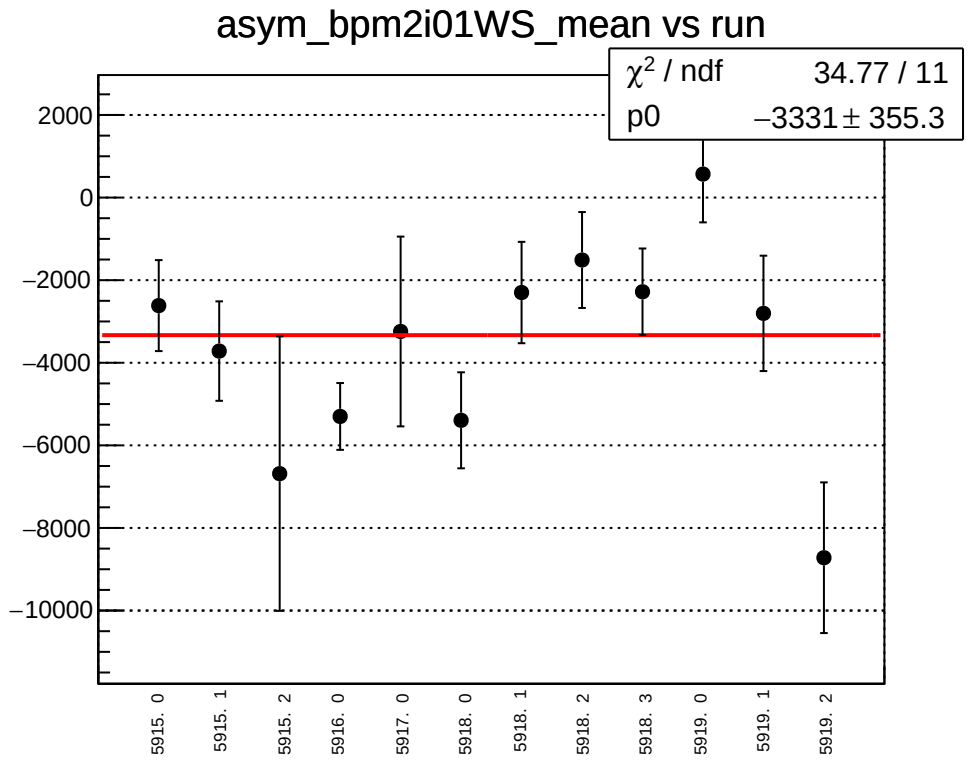

asym_cav4dQ_rms vs run
χ² / ndf 5718 / 11
p0 384.7 ± 0.7427
600
550
500
450
400
350
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

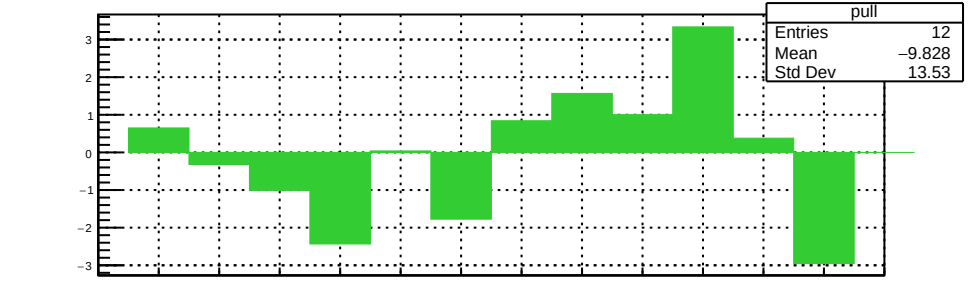

asym_bcm0l02_mean vs run
χ² / ndf 8.966 / 11
p0 1036 ± 773.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

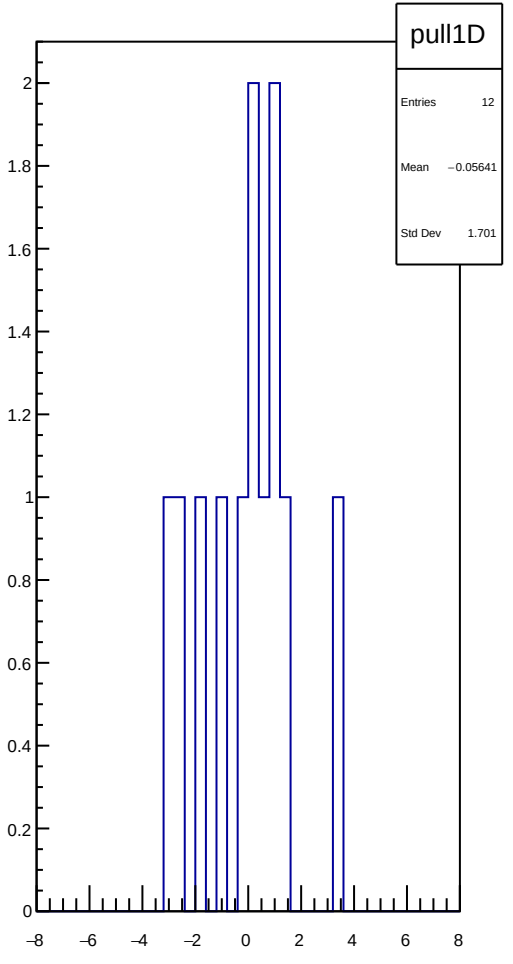

pull
Entries 12
Mean 25.18
Std Dev 17.86
1.5
1
0.5
0
−0.5
−1
−1.5

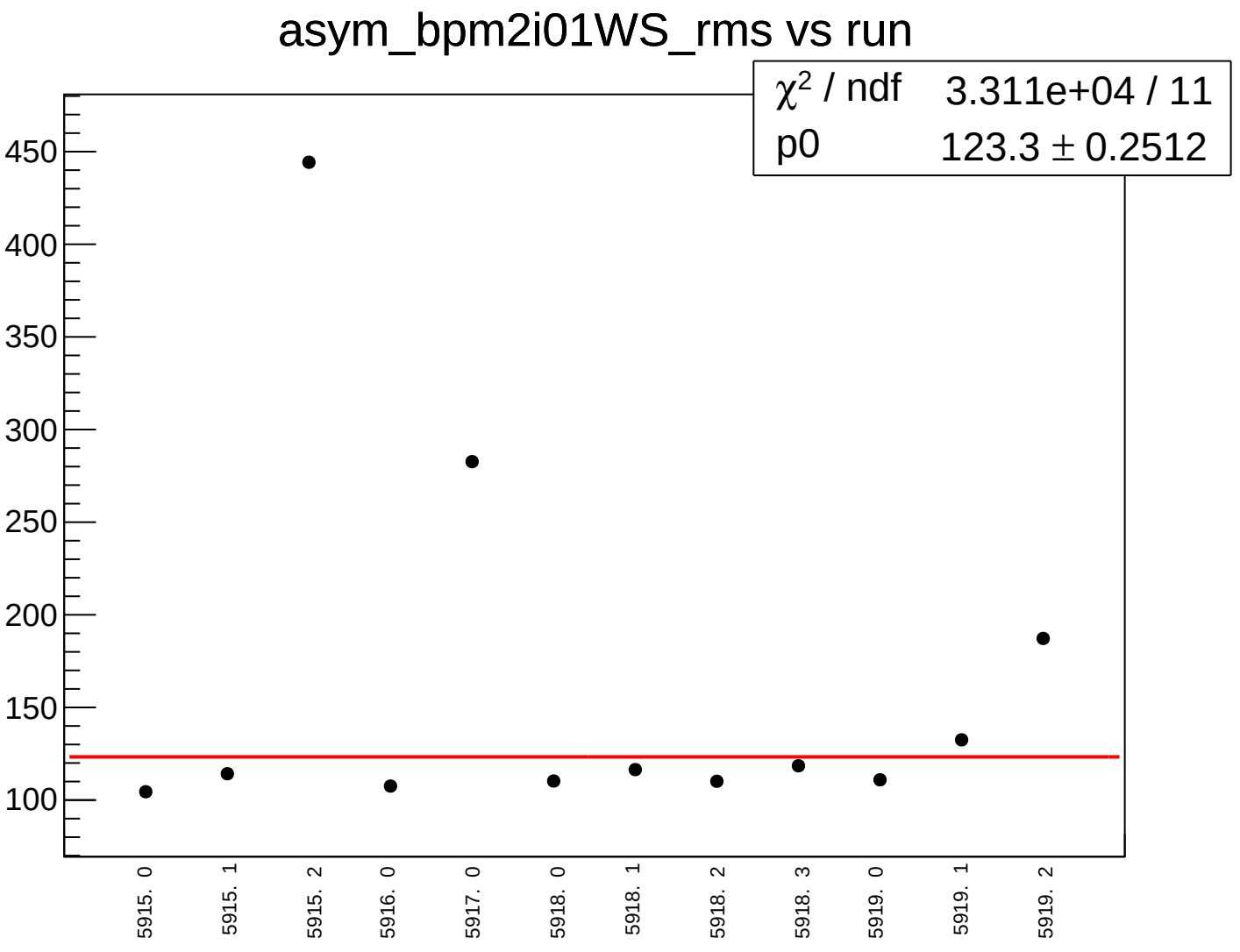

pull1D
Entries 12
Mean 0.04536
Std Dev 0.8632
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

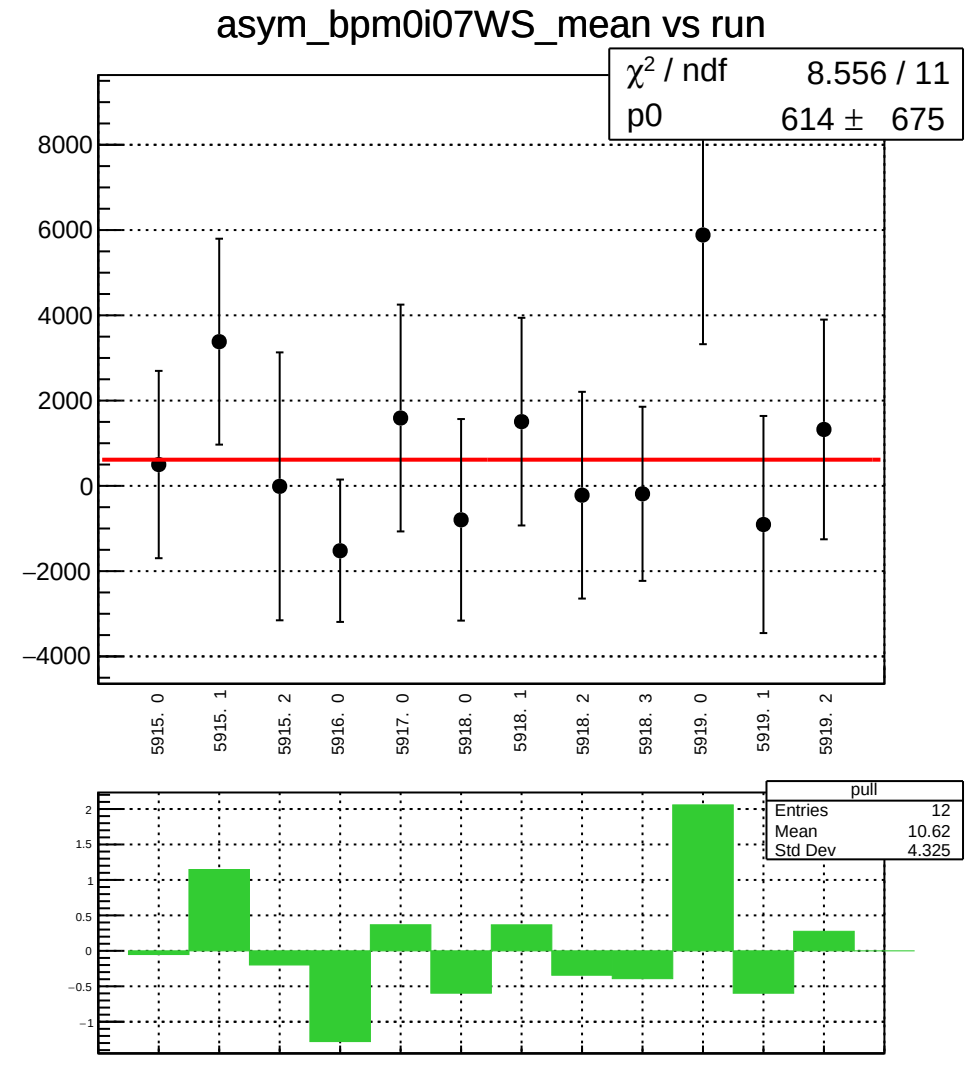

asym_bcm0l02_rms vs run
χ² / ndf 9999 / 11
p0 281 ± 0.5468
500
450
400
350
300
250
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

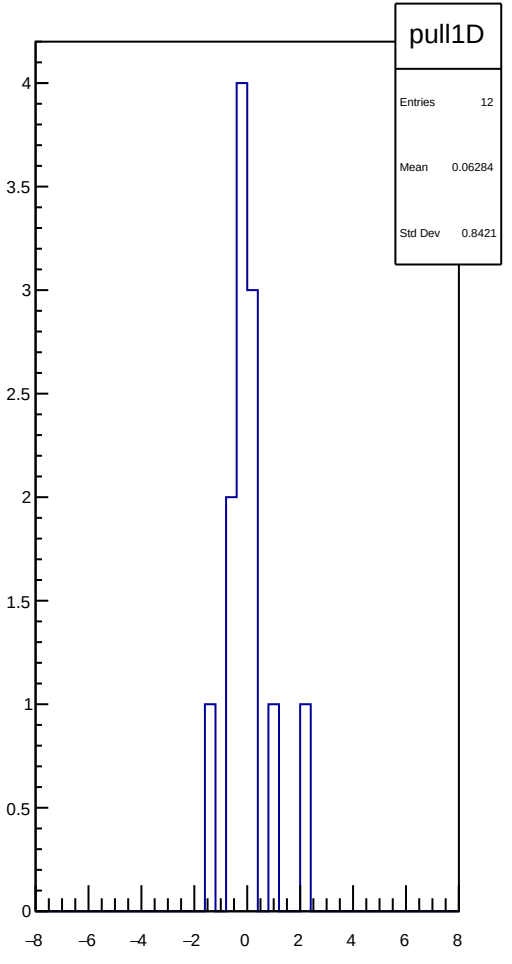

asym_bpm2i01WS_mean vs run
χ² / ndf 34.77 / 11
p0 −3331 ± 355.3
2000
0
−2000
−4000
−6000
−8000
−10000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

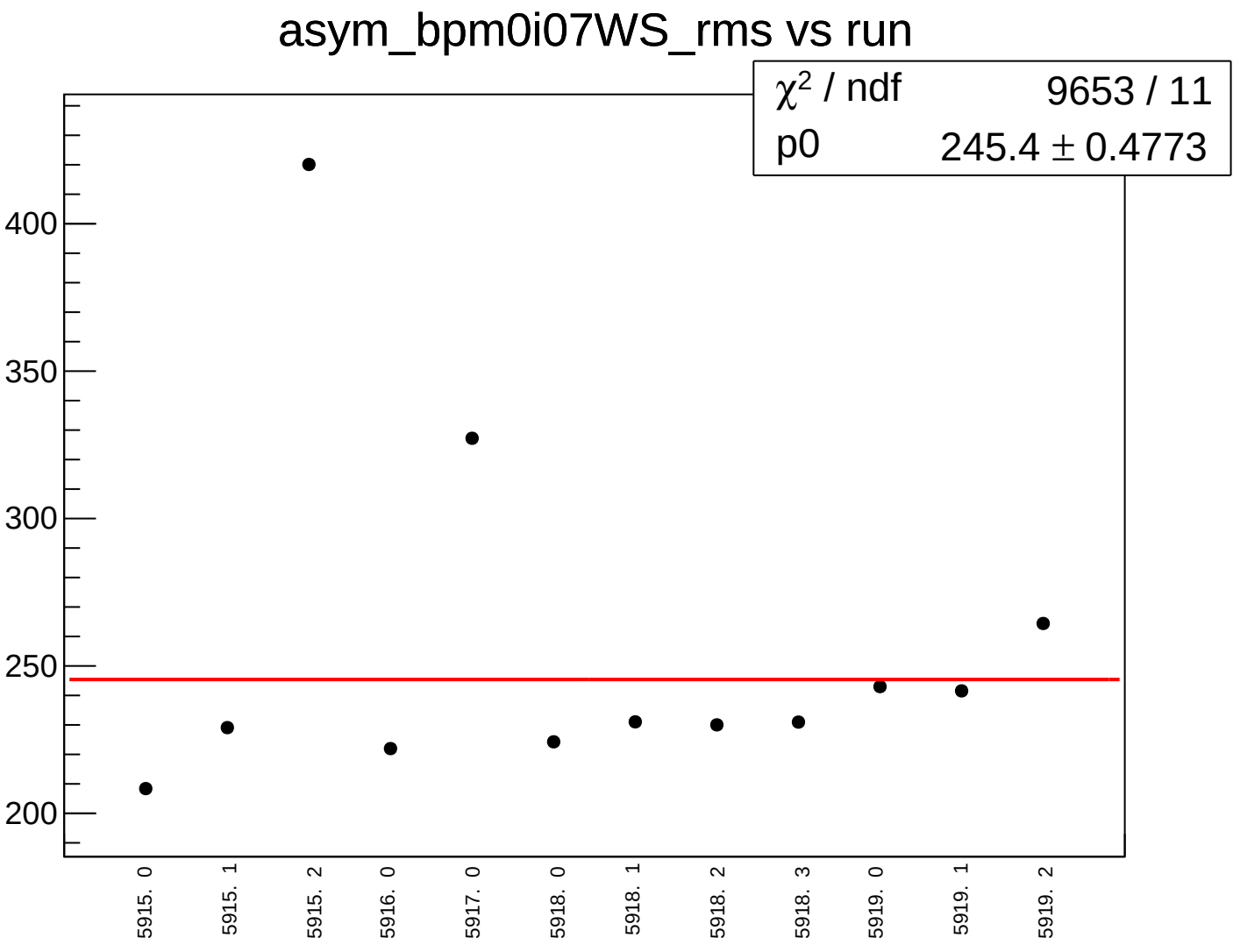

pull
Entries 12
Mean −9.828
Std Dev 13.53
3
2
1
0
−1
−2
−3

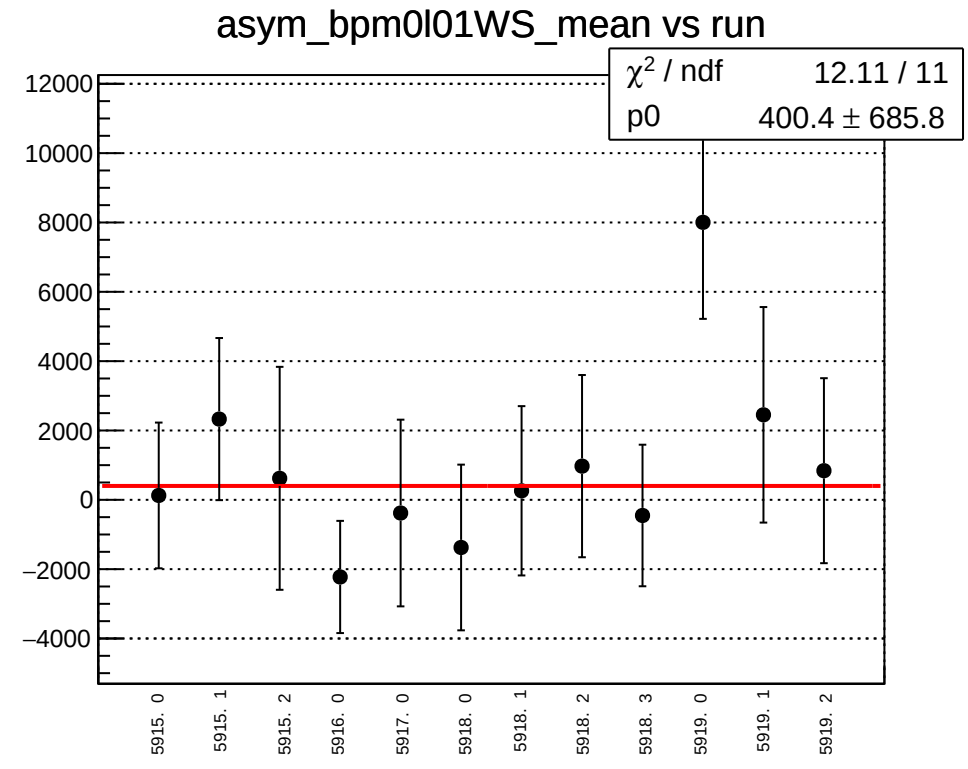

pull1D
Entries 12
Mean −0.05641
Std Dev 1.701
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

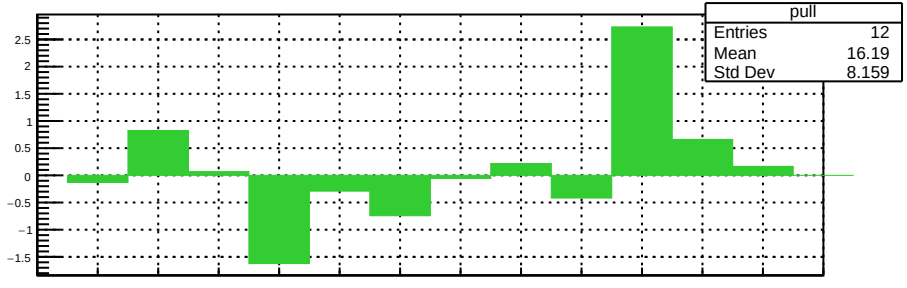

asym_bpm2i01WS_rms vs run
χ² / ndf 3.311e+04 / 11
p0 123.3 ± 0.2512
450
400
350
300
250
200
150
100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

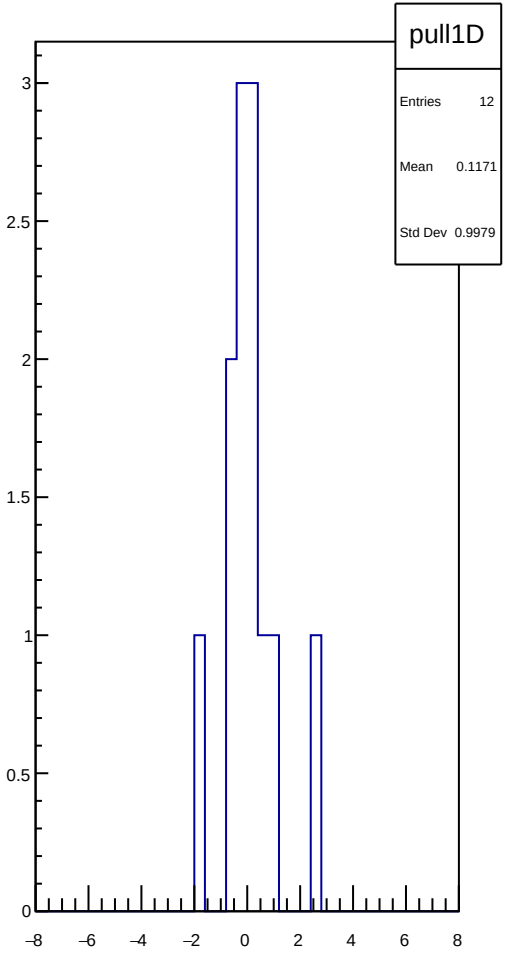

asym_bpm0i07WS_mean vs run
χ² / ndf 8.556 / 11
p0 614 ± 675
8000
6000
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 10.62
Std Dev 4.325
2
1.5
1
0.5
0
−0.5
−1

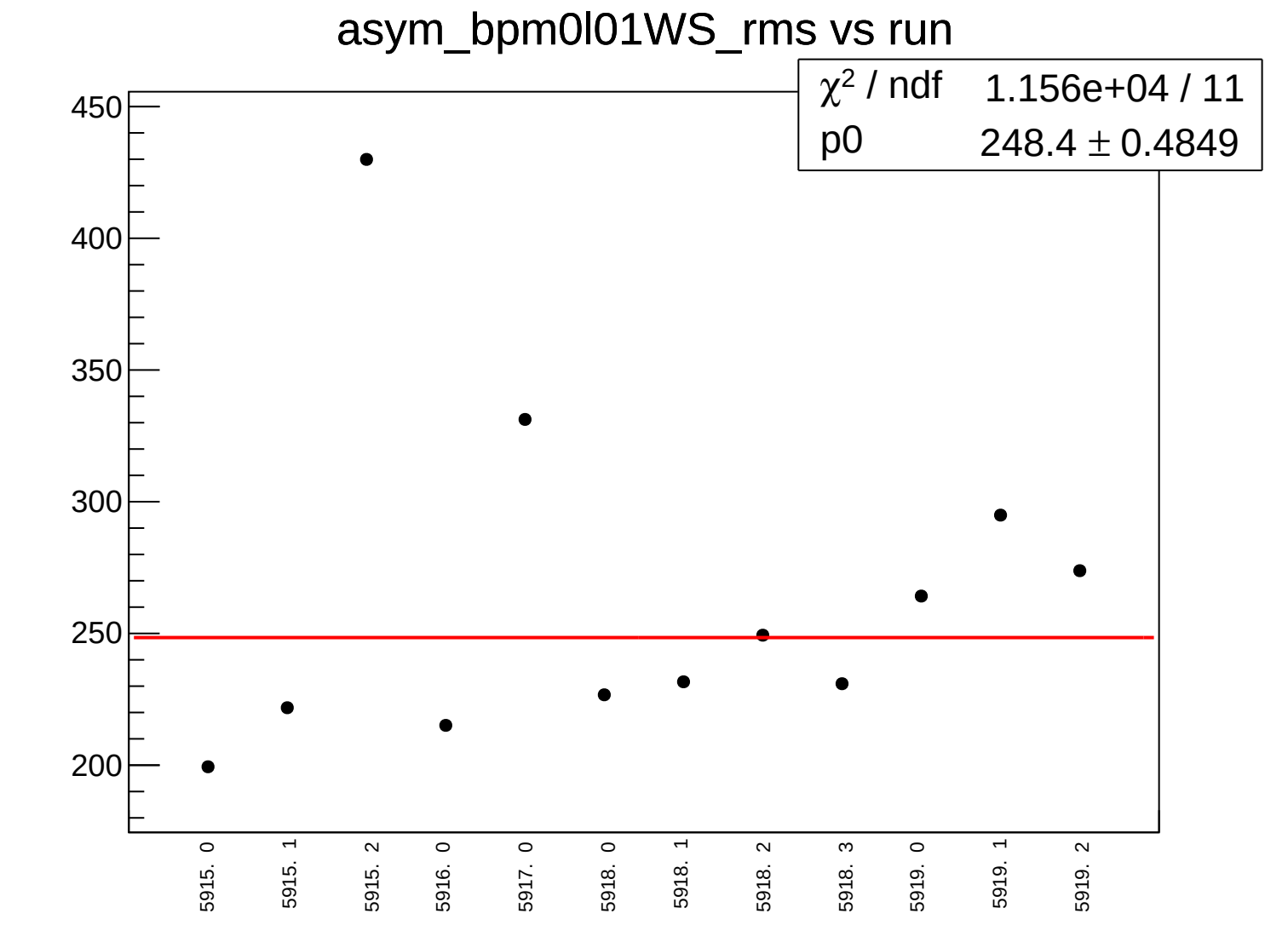

pull1D
Entries 12
Mean 0.06284
Std Dev 0.8421
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

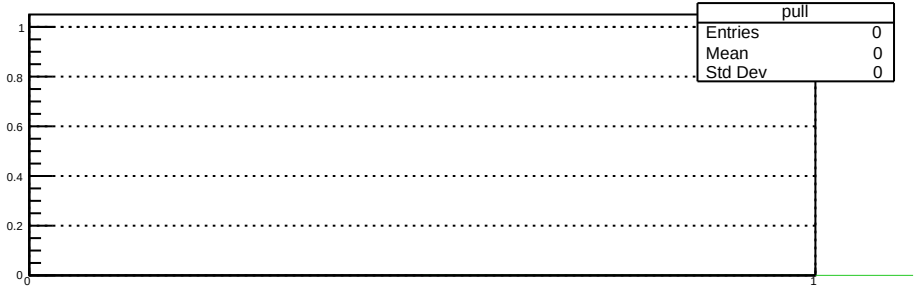

asym_bpm0i07WS_rms vs run
χ² / ndf 9653 / 11
p0 245.4 ± 0.4773
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

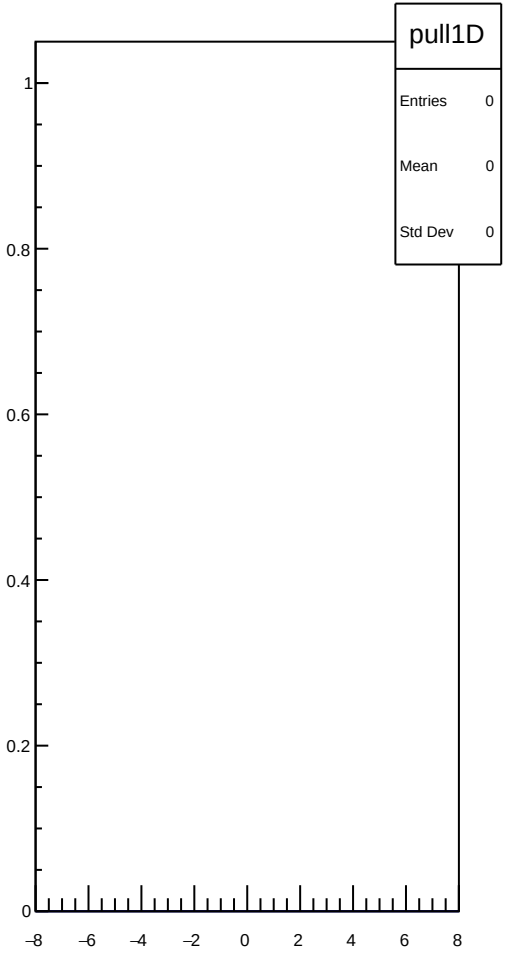

asym_bpm0l01WS_mean vs run
χ² / ndf 12.11 / 11
p0 400.4 ± 685.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

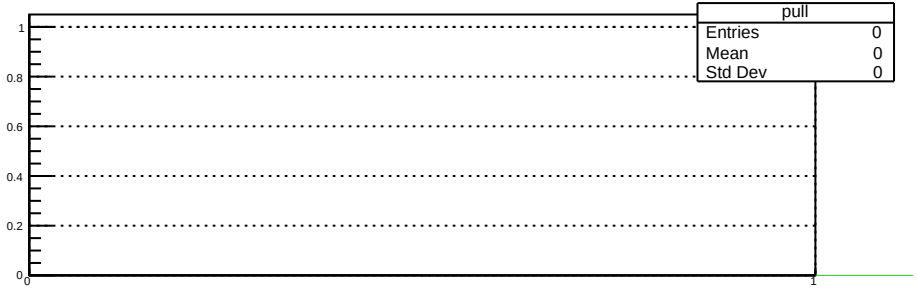

pull
Entries 12
Mean 16.19
Std Dev 8.159
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

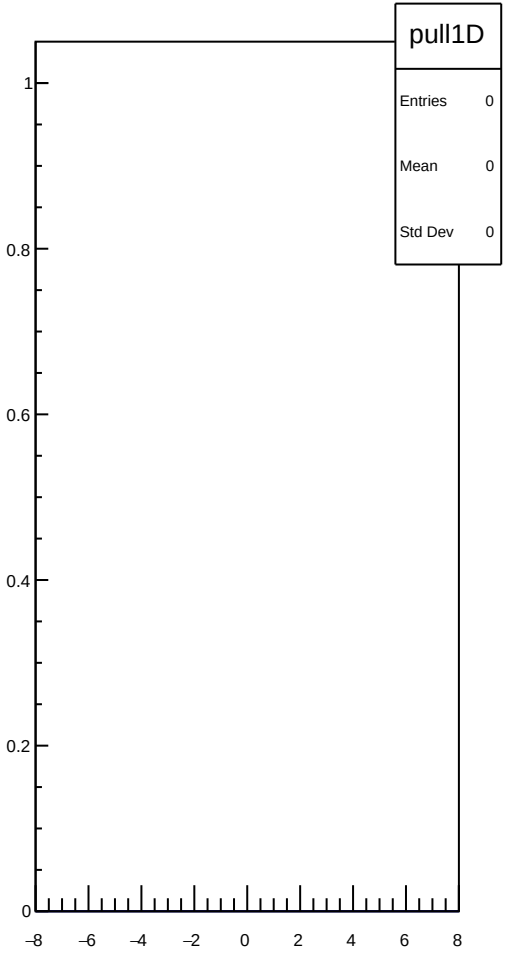

pull1D
Entries 12
Mean 0.1171
Std Dev 0.9979
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

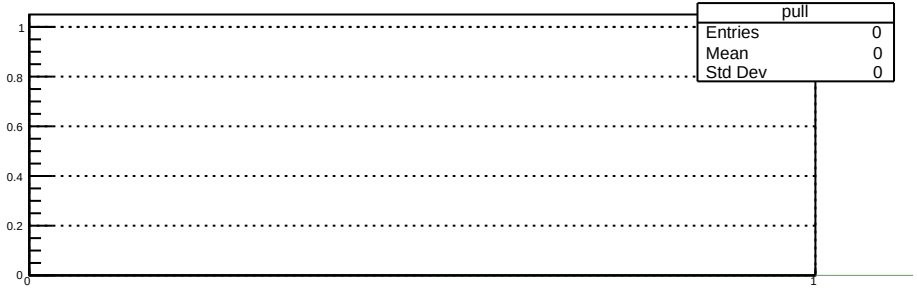

asym_bpm0l01WS_rms vs run
χ² / ndf 1.156e+04 / 11
p0 248.4 ± 0.4849
450
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

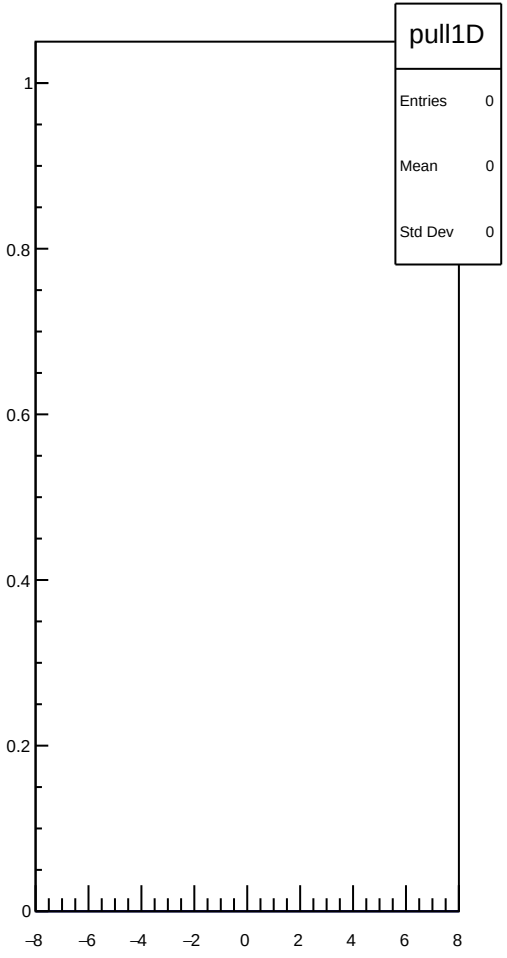

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

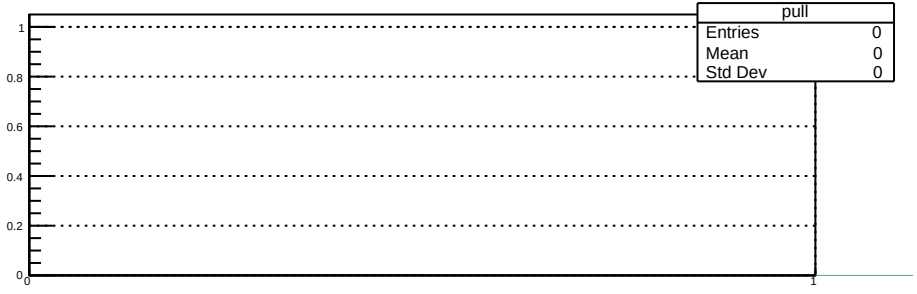

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

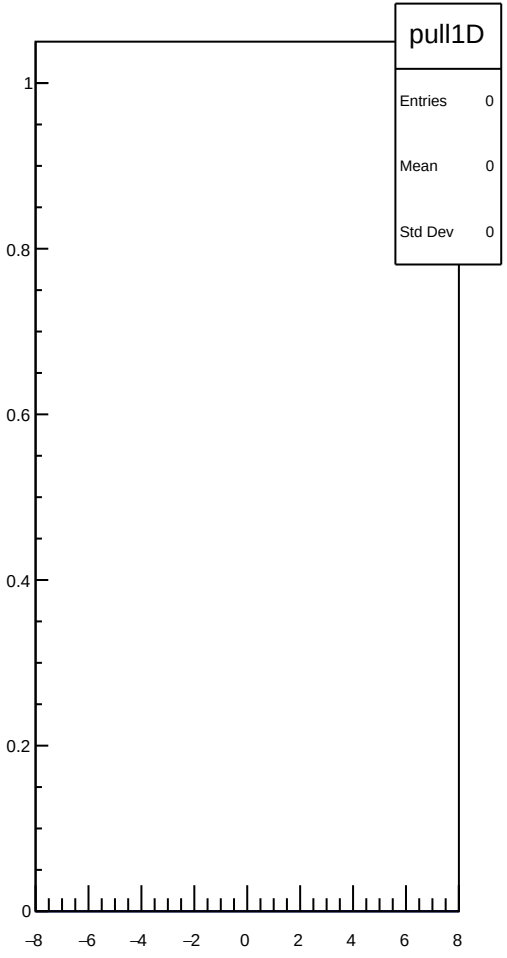

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

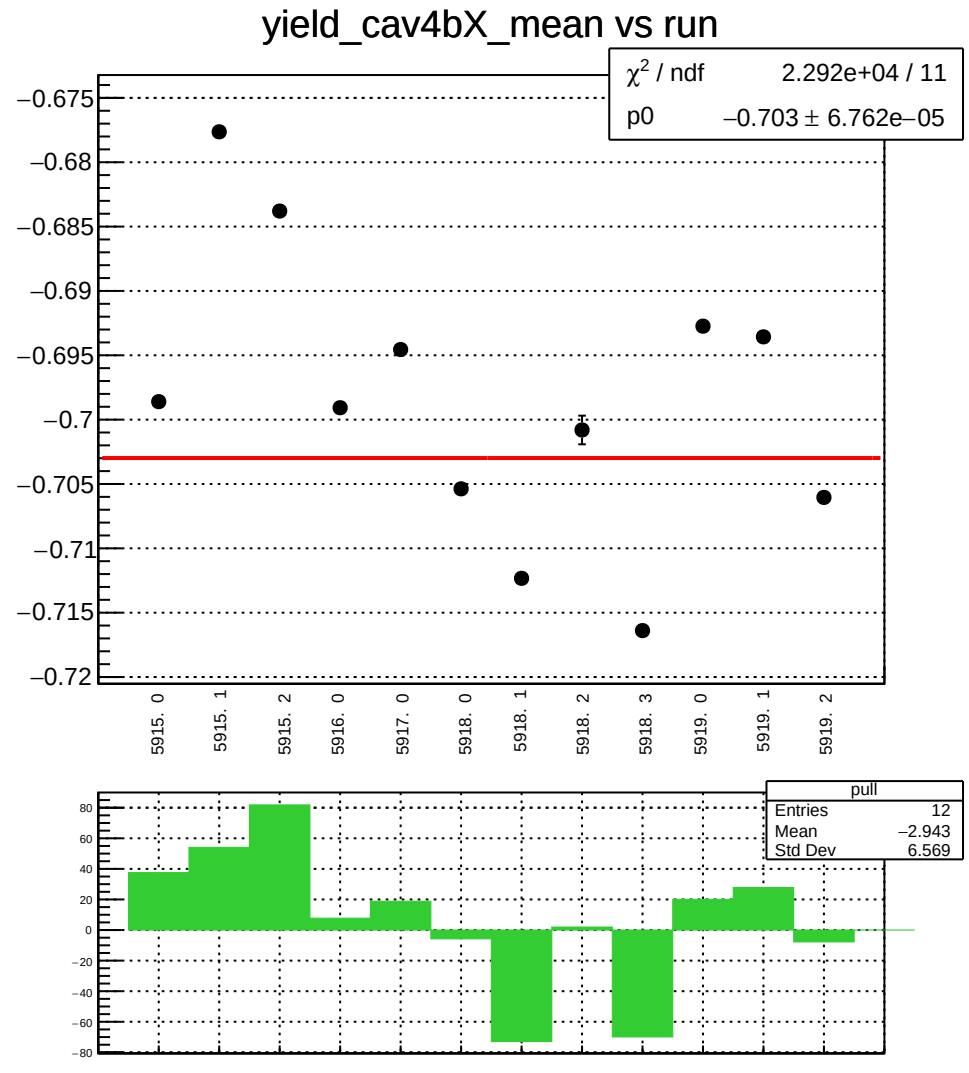

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

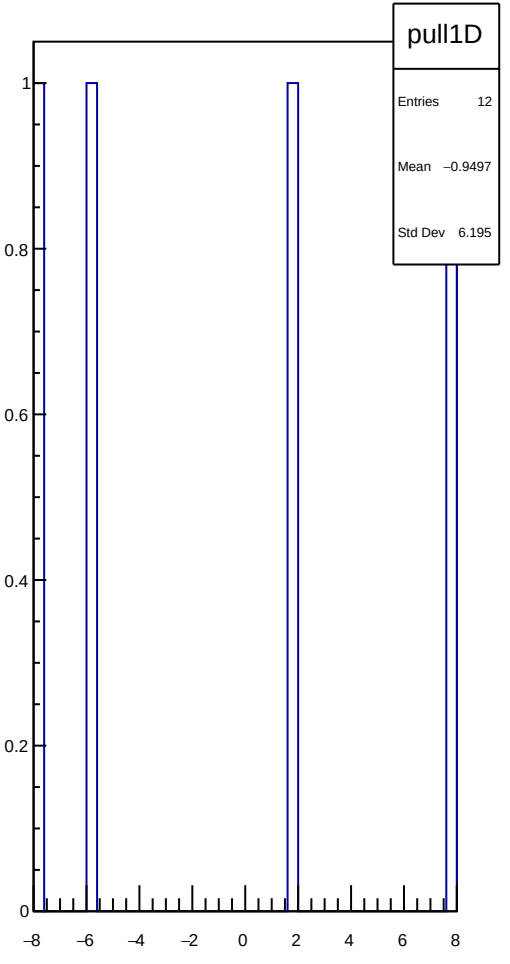

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

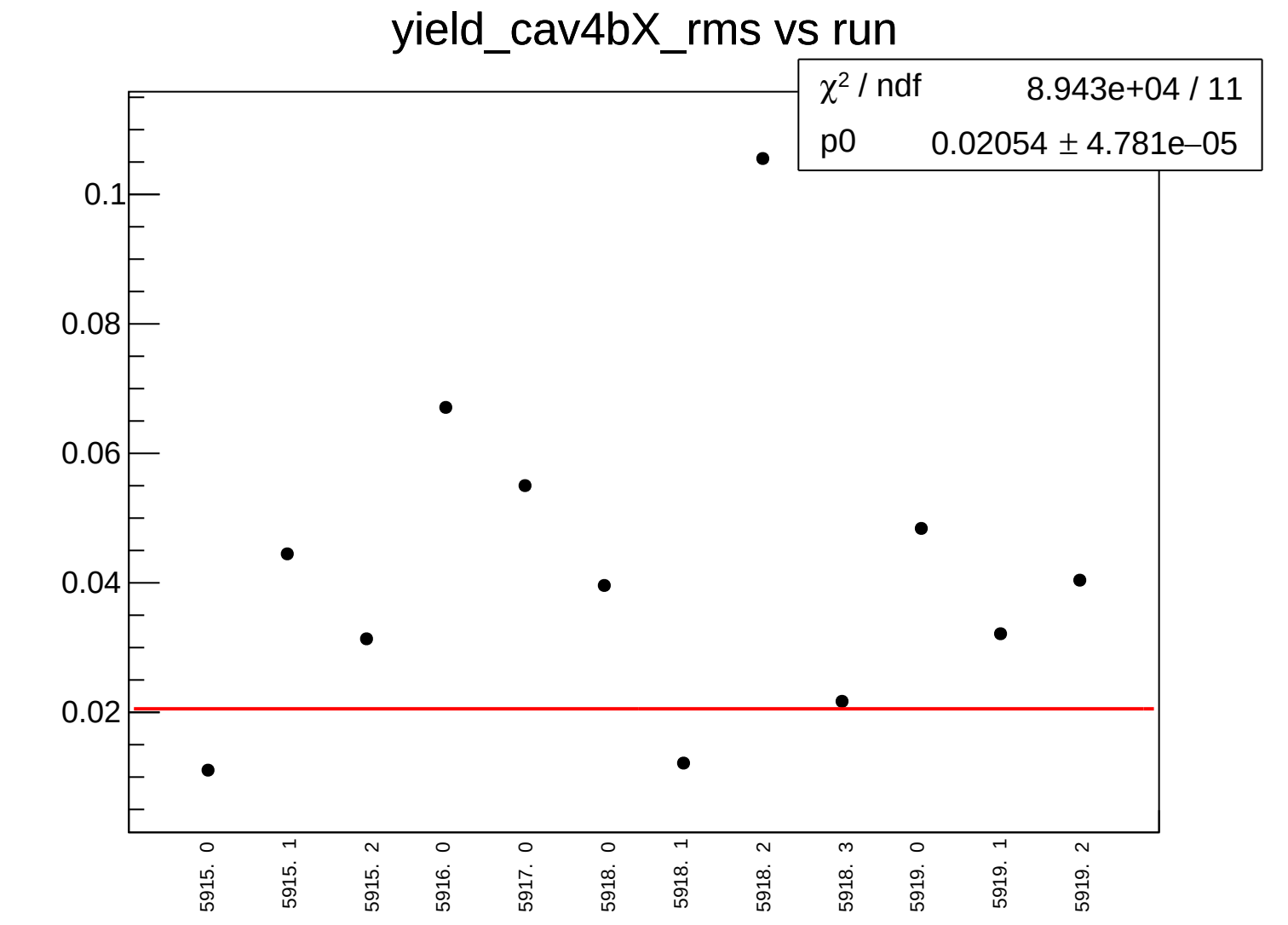

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

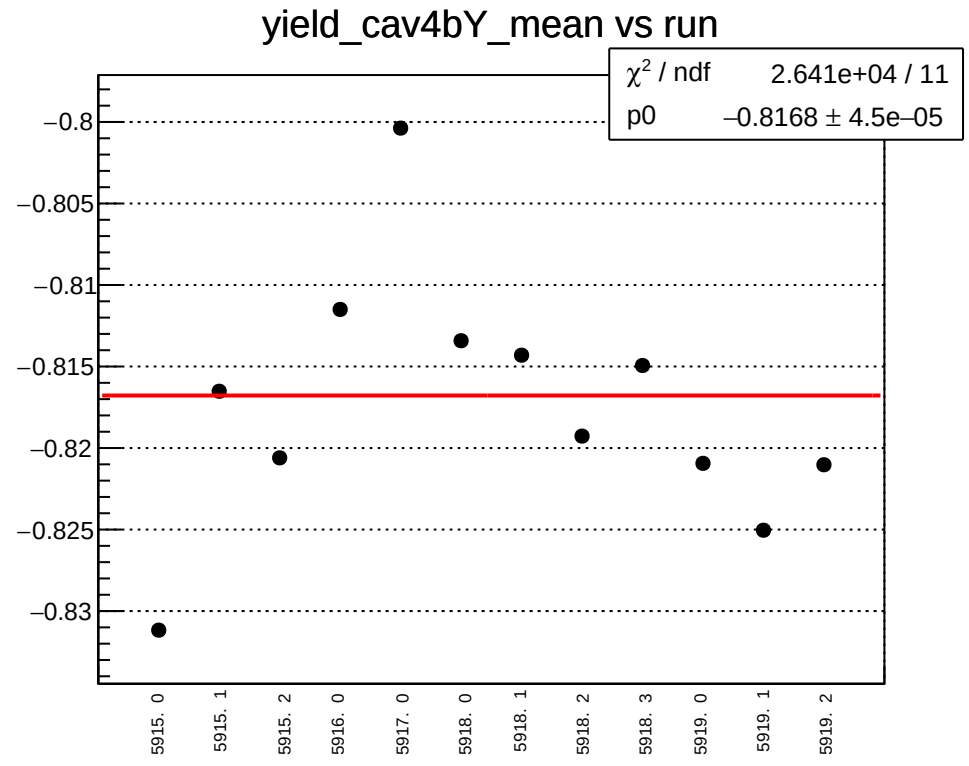

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

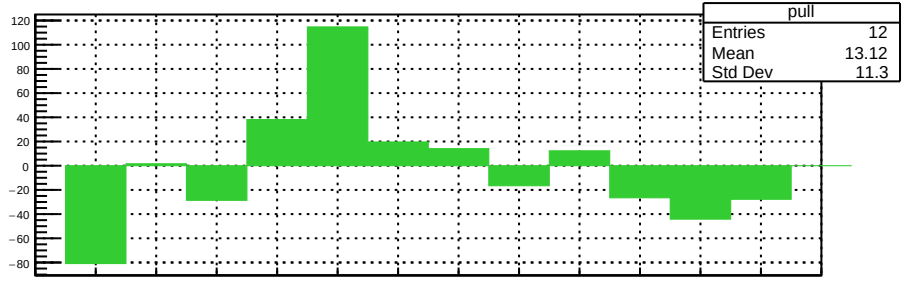

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

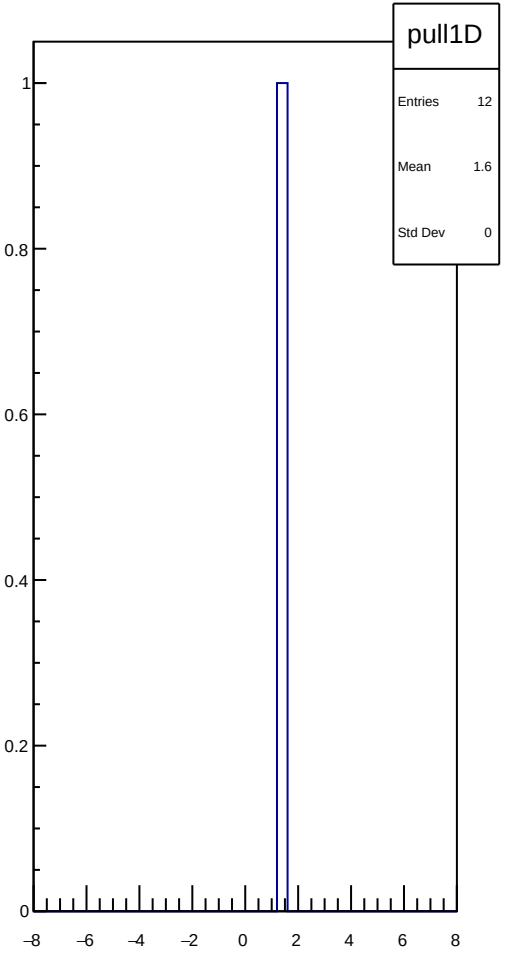

yield_cav4bX_mean vs run
χ² / ndf 2.292e+04 / 11
p0 −0.703 ± 6.762e−05
−0.675
−0.68
−0.685
−0.69
−0.695
−0.7
−0.705
−0.71
−0.715
−0.72
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −2.943
Std Dev 6.569
80
60
40
20
0
−20
−40
−60
−80

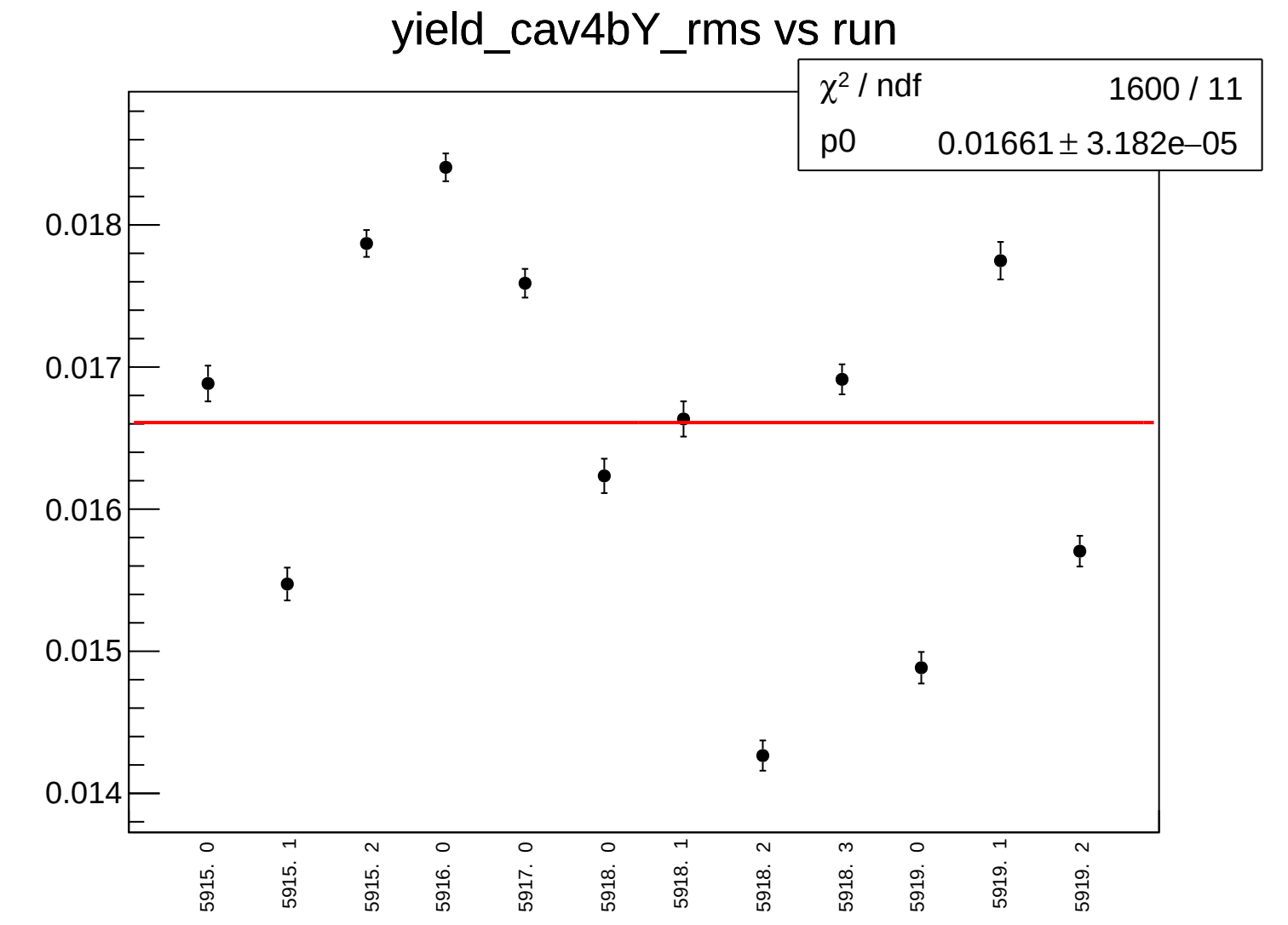

pull1D
Entries 12
Mean −0.9497
Std Dev 6.195
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

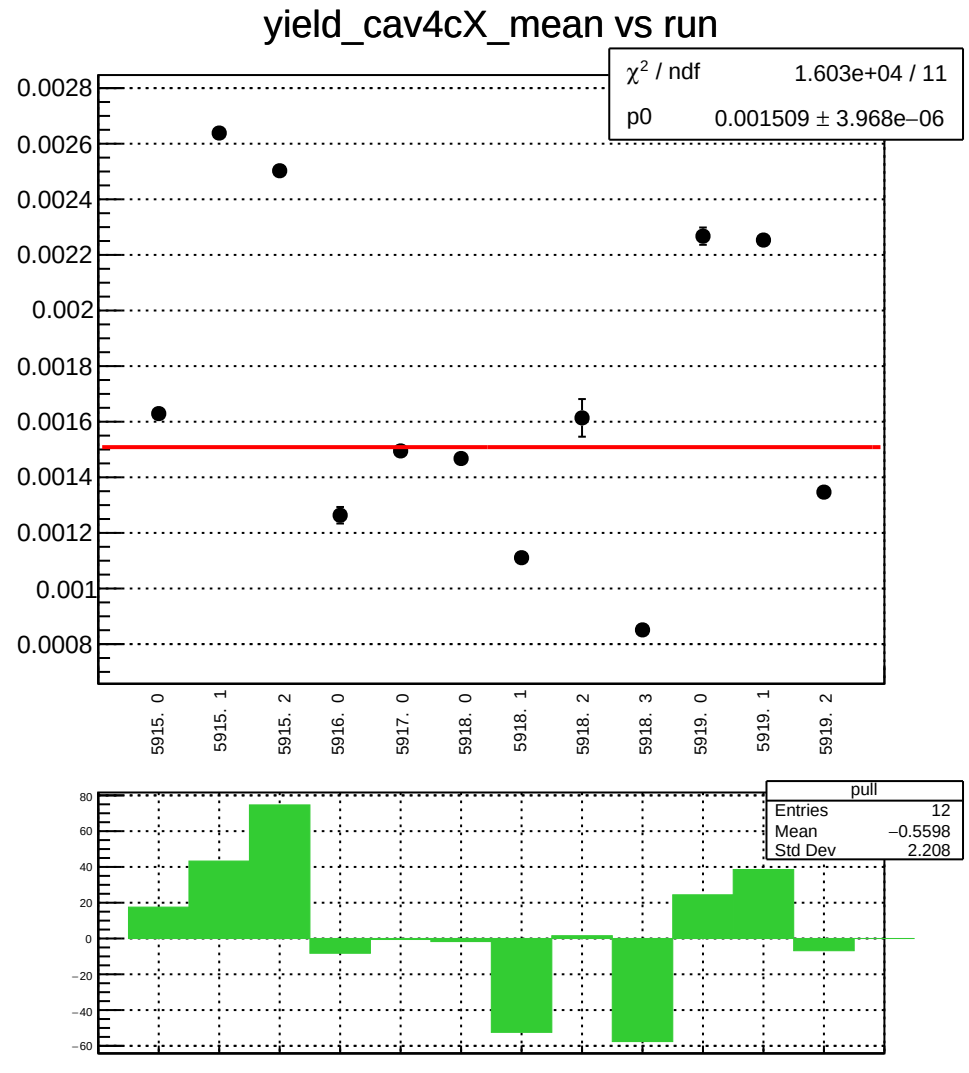

yield_cav4bX_rms vs run
χ² / ndf 8.943e+04 / 11
p0 0.02054 ± 4.781e–05
0.1
0.08
0.06
0.04
0.02
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

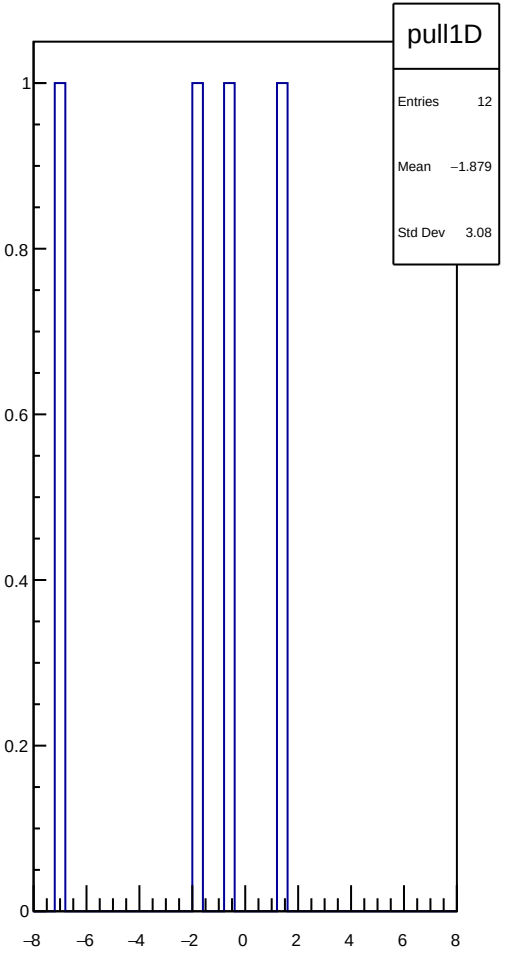

yield_cav4bY_mean vs run
χ² / ndf 2.641e+04 / 11
p0 −0.8168 ± 4.5e−05
−0.8
−0.805
−0.81
−0.815
−0.82
−0.825
−0.83
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

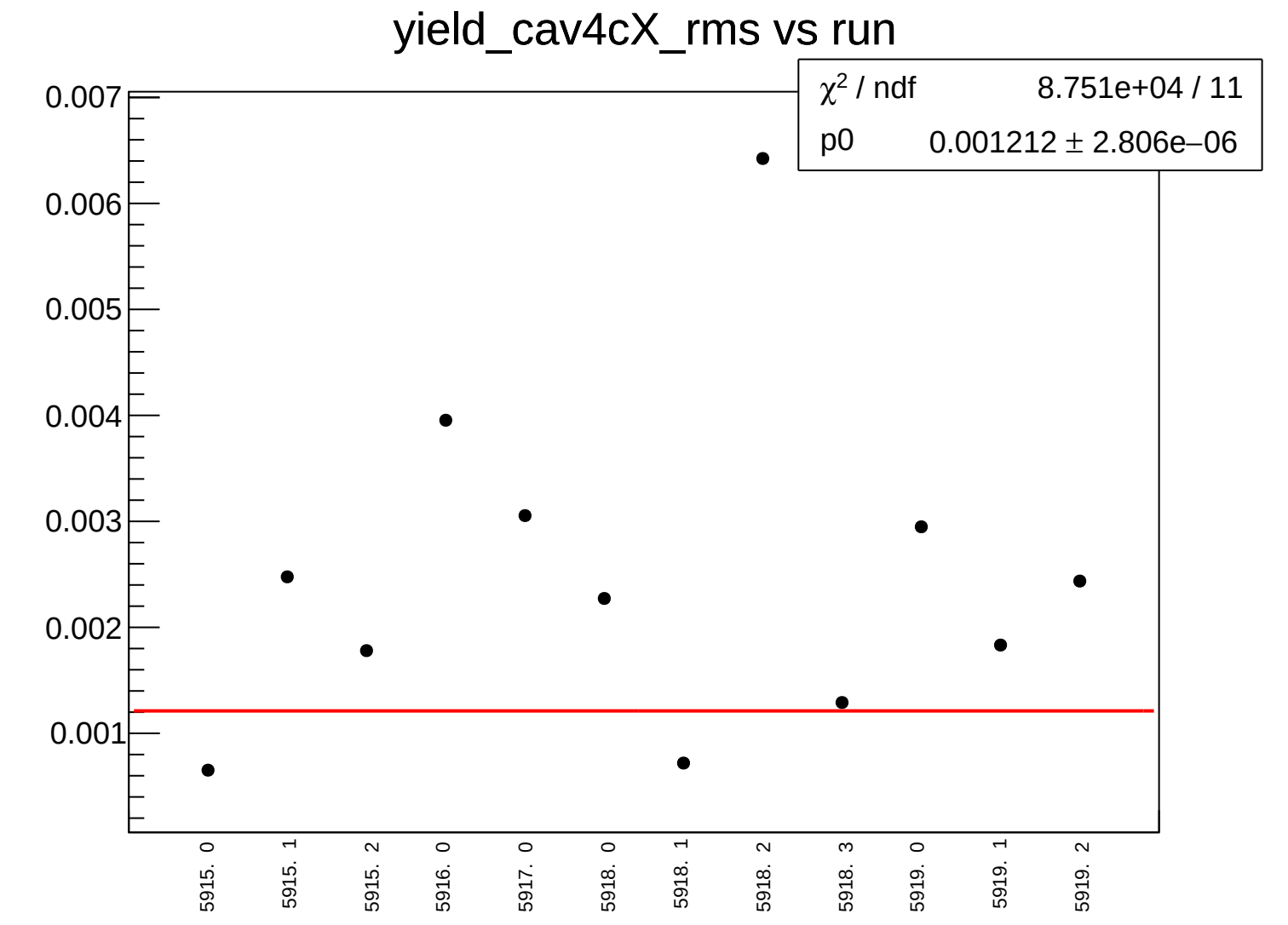

pull
Entries 12
Mean 13.12
Std Dev 11.3
120
100
80
60
40
20
0
−20
−40
−60
−80

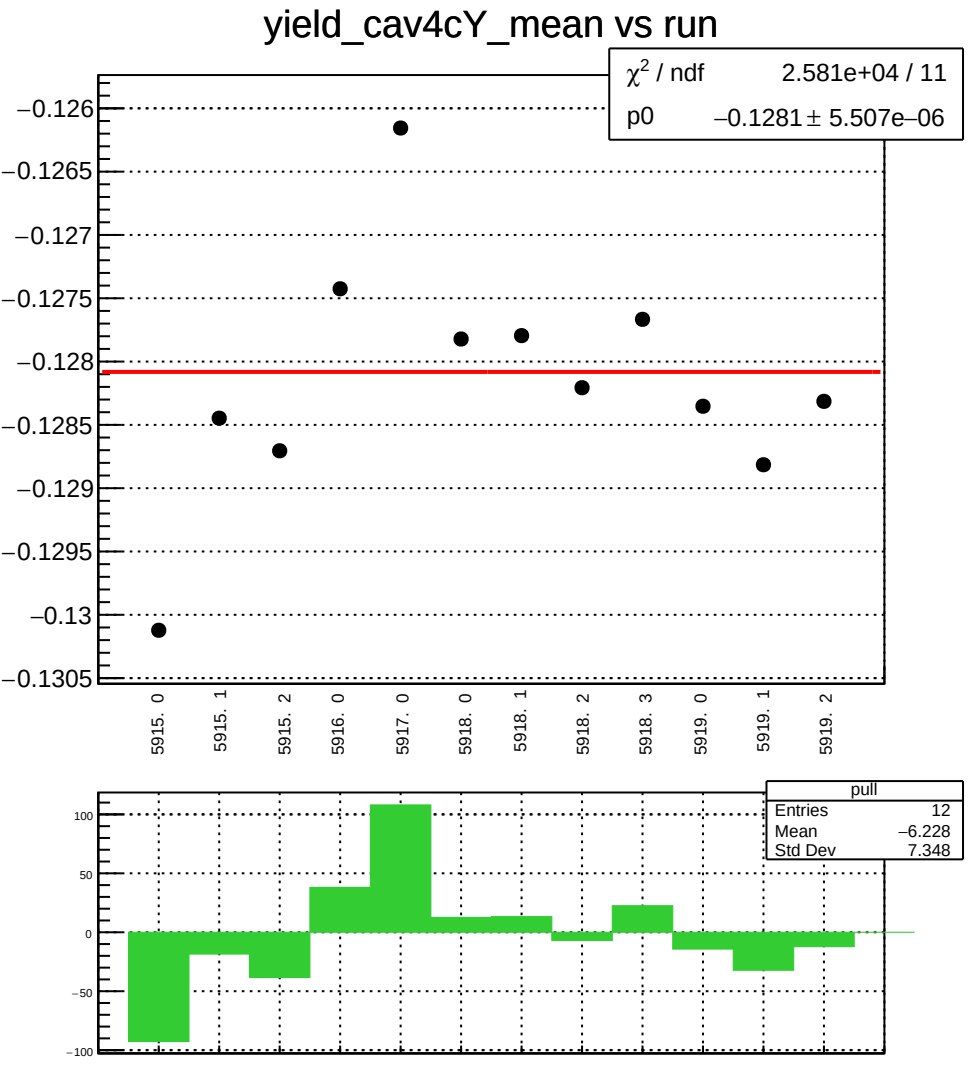

pull1D
Entries 12
Mean 1.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

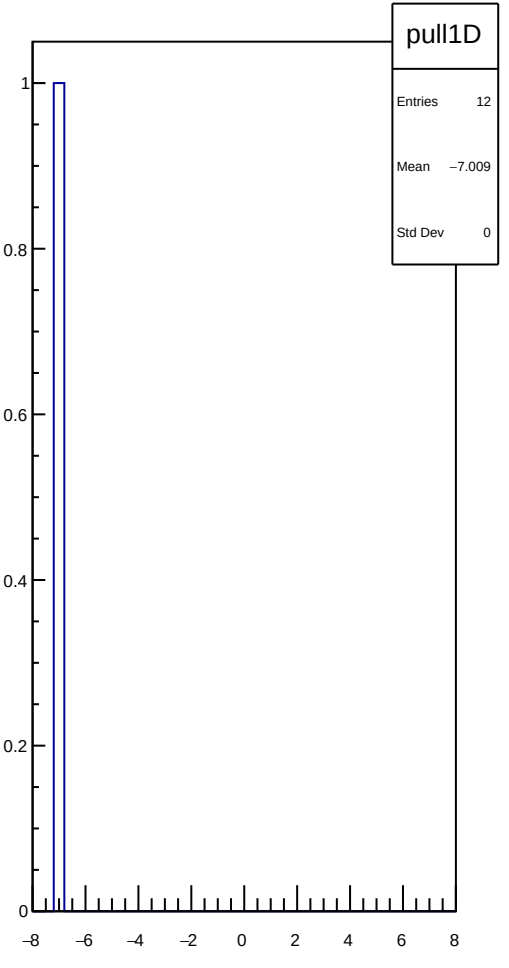

yield_cav4bY_rms vs run
χ² / ndf 1600 / 11
p0 0.01661 ± 3.182e–05
0.018
0.017
0.016
0.015
0.014
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

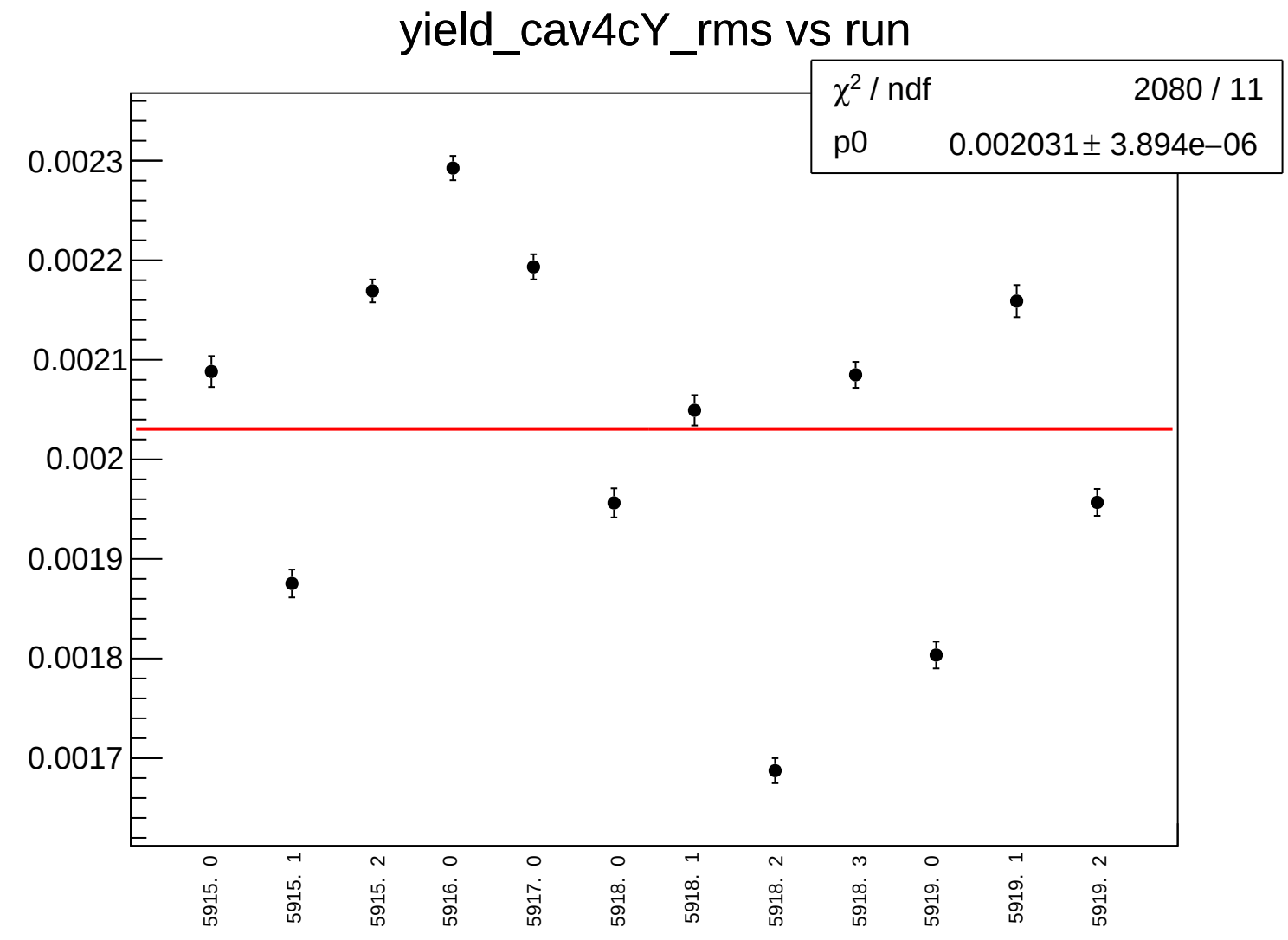

yield_cav4cX_mean vs run
χ² / ndf 1.603e+04 / 11
p0 0.001509 ± 3.968e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −0.5598
Std Dev 2.208
80
60
40
20
0
−20
−40
−60

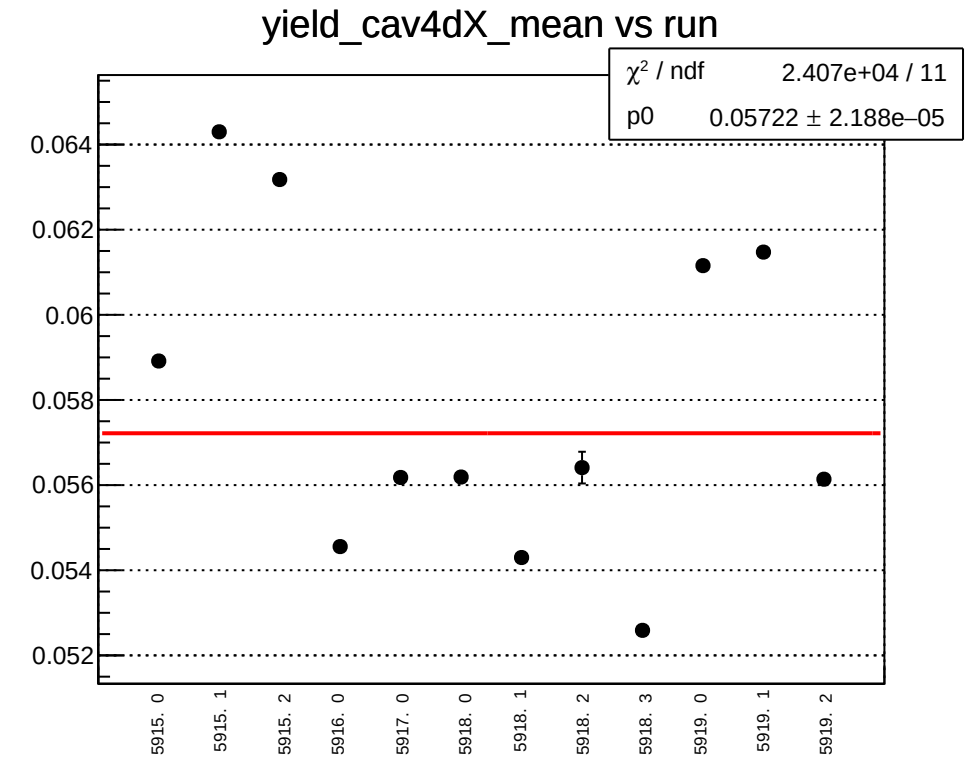

pull1D
Entries 12
Mean −1.879
Std Dev 3.08
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

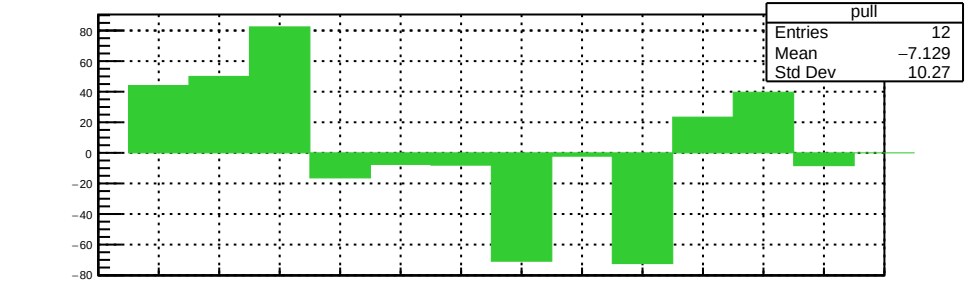

yield_cav4cX_rms vs run
χ² / ndf 8.751e+04 / 11
p0 0.001212 ± 2.806e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

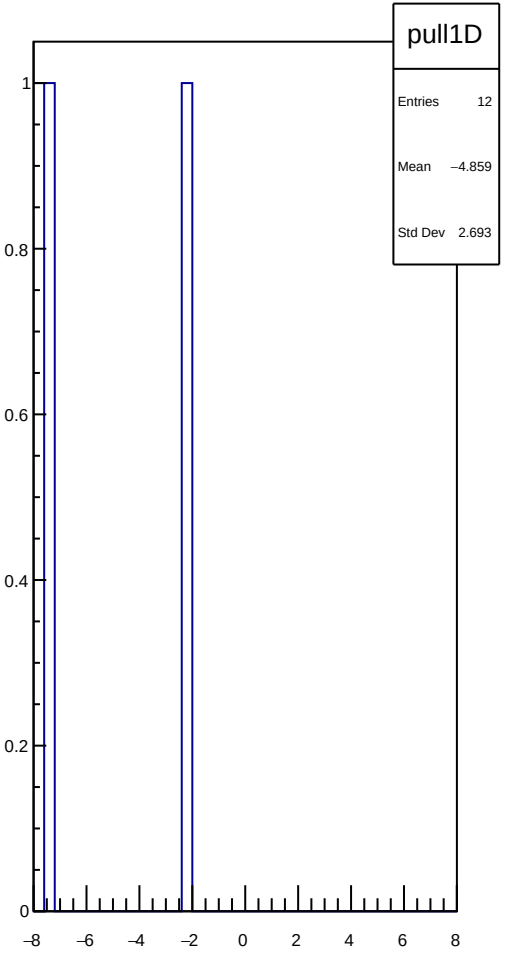

yield_cav4cY_mean vs run
χ² / ndf 2.581e+04 / 11
p0 −0.1281 ± 5.507e−06
−0.126
−0.1265
−0.127
−0.1275
−0.128
−0.1285
−0.129
−0.1295
−0.13
−0.1305
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −6.228
Std Dev 7.348
100
50
0
−50
−100

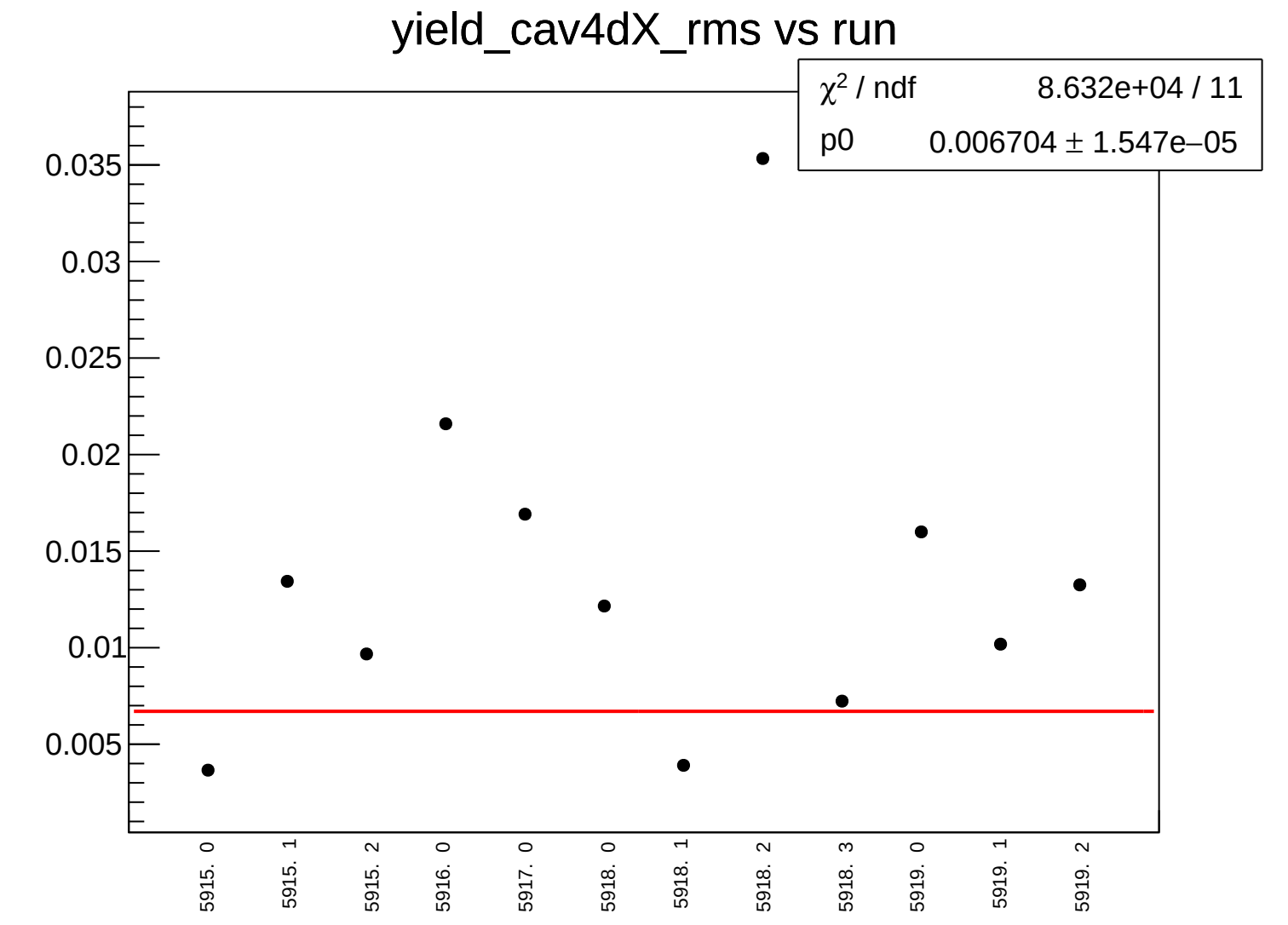

pull1D
Entries 12
Mean −7.009
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

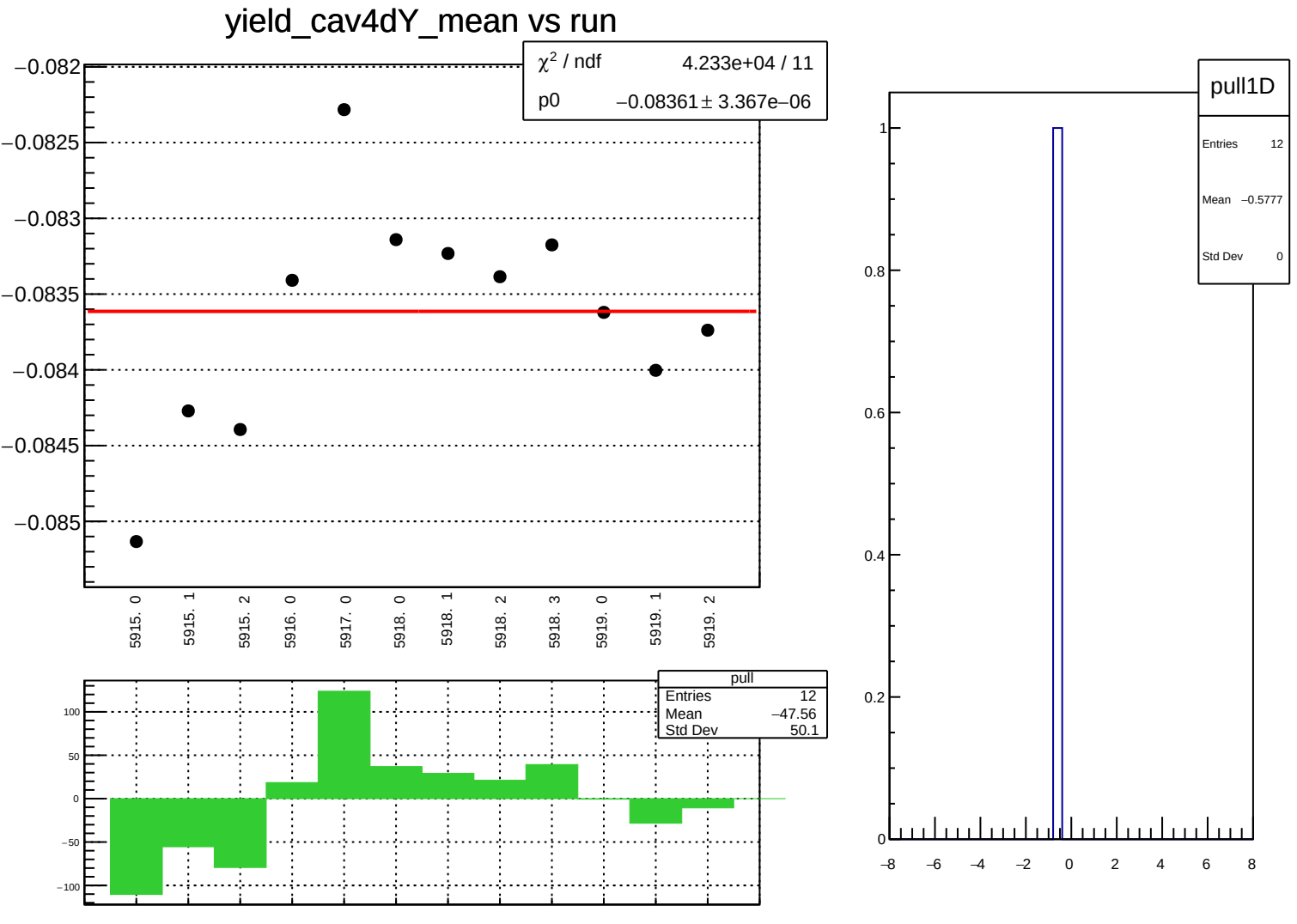

yield_cav4cY_rms vs run
χ² / ndf 2080 / 11
p0 0.002031 ± 3.894e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

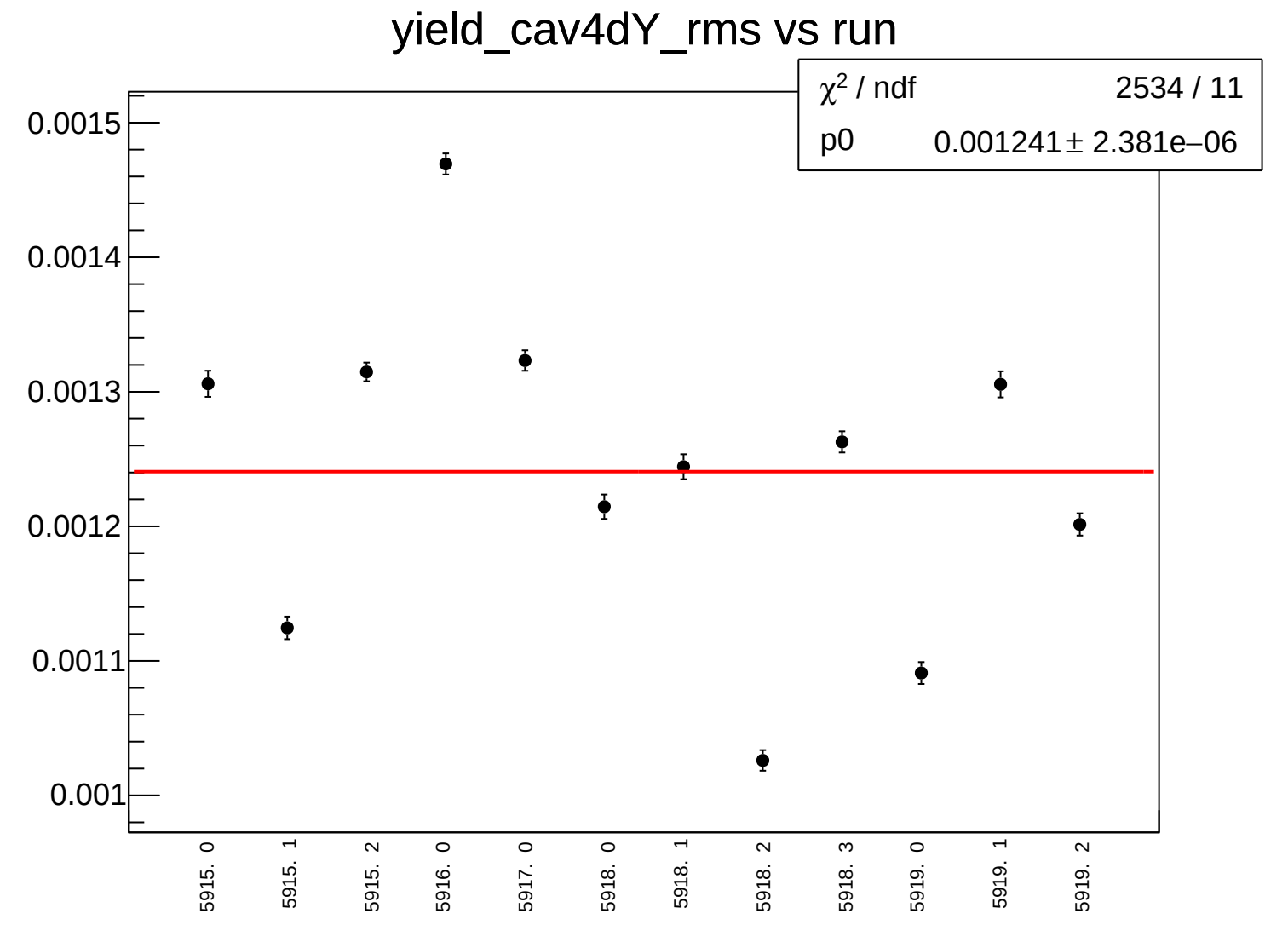

yield_cav4dX_mean vs run
χ² / ndf 2.407e+04 / 11
p0 0.05722 ± 2.188e−05
0.064
0.062
0.06
0.058
0.056
0.054
0.052
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

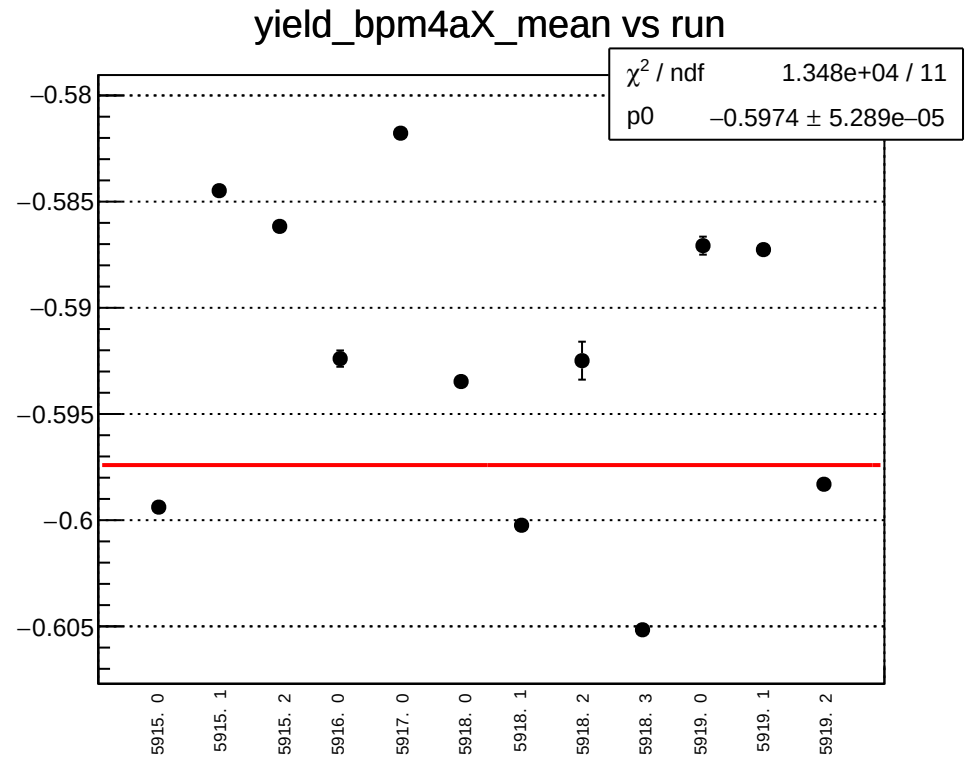

pull
Entries 12
Mean −7.129
Std Dev 10.27
80
60
40
20
0
−20
−40
−60
−80

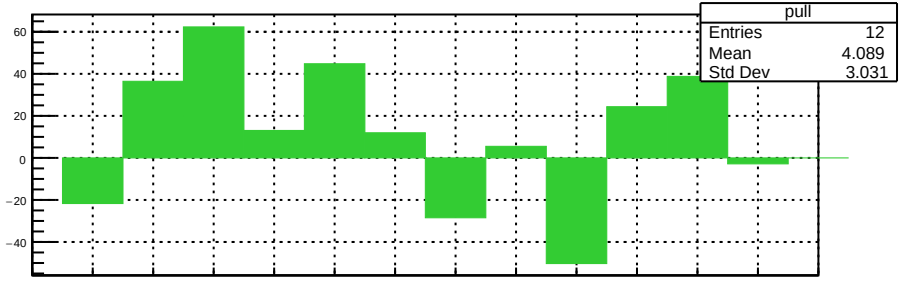

pull1D
Entries 12
Mean −4.859
Std Dev 2.693
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

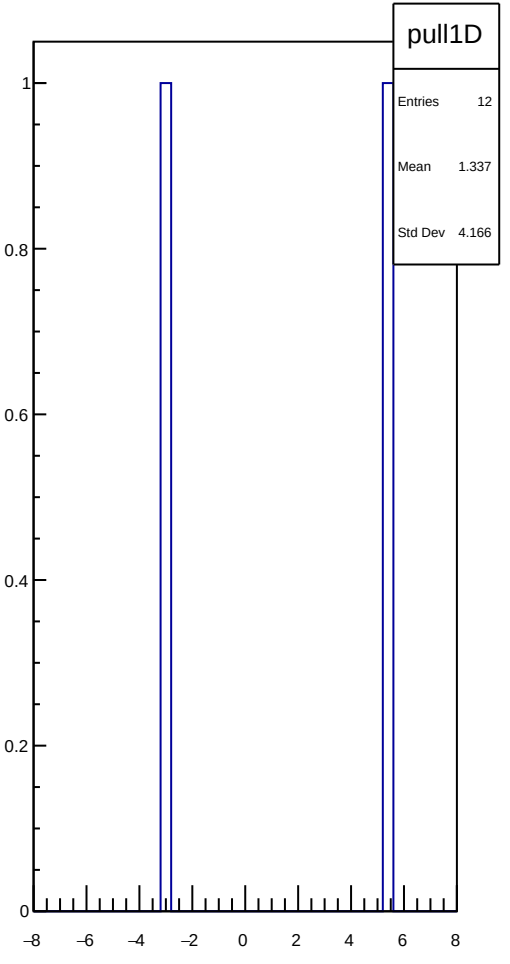

yield_cav4dX_rms vs run
χ² / ndf 8.632e+04 / 11
p0 0.006704 ± 1.547e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

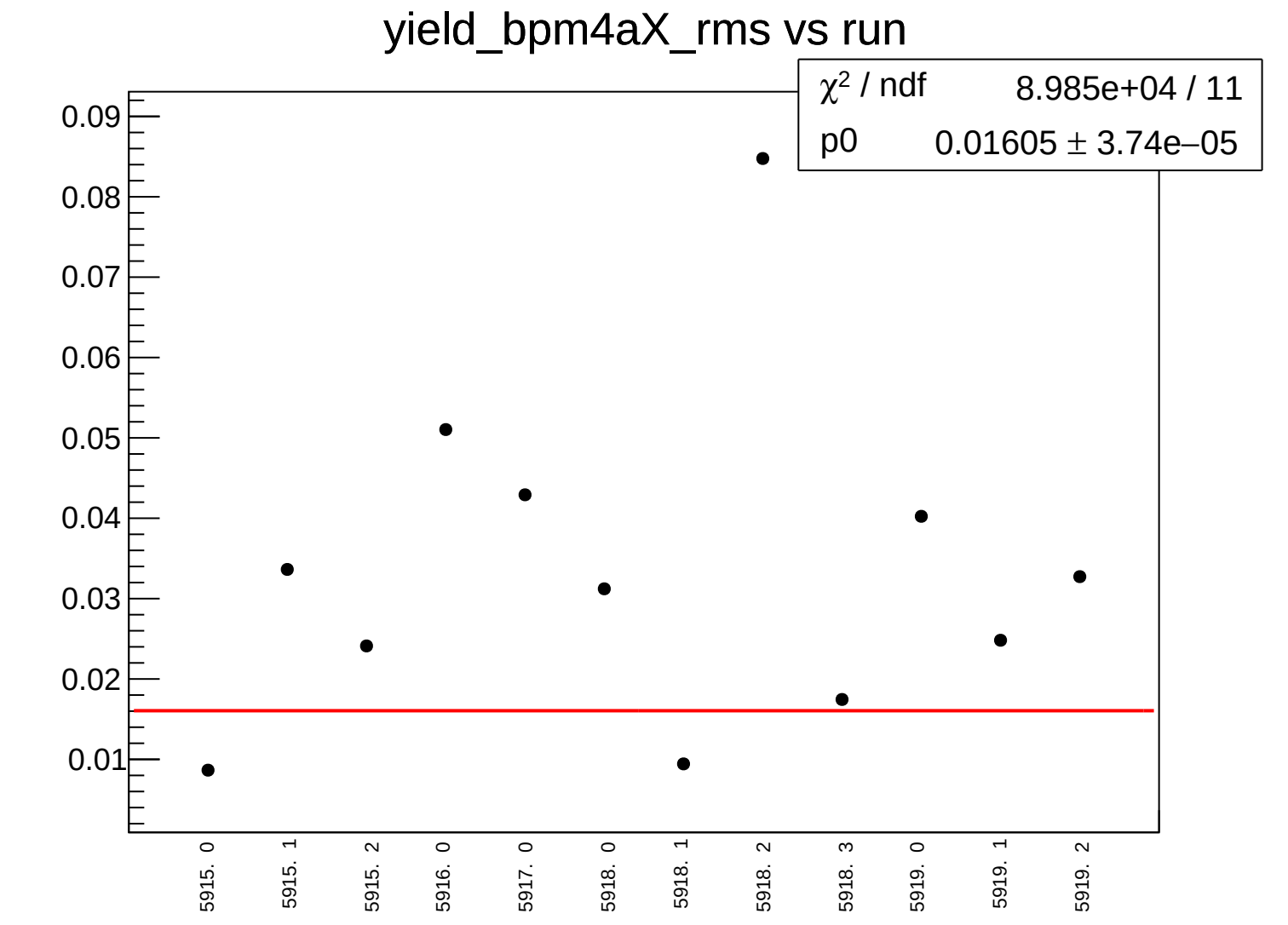

yield_cav4dY_mean vs run
χ² / ndf 4.233e+04 / 11
p0 −0.08361 ± 3.367e−06
−0.082
−0.0825
−0.083
−0.0835
−0.084
−0.0845
−0.085
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −47.56
Std Dev 50.1
100
50
0
−50
−100
pull1D
Entries 12
Mean −0.5777
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

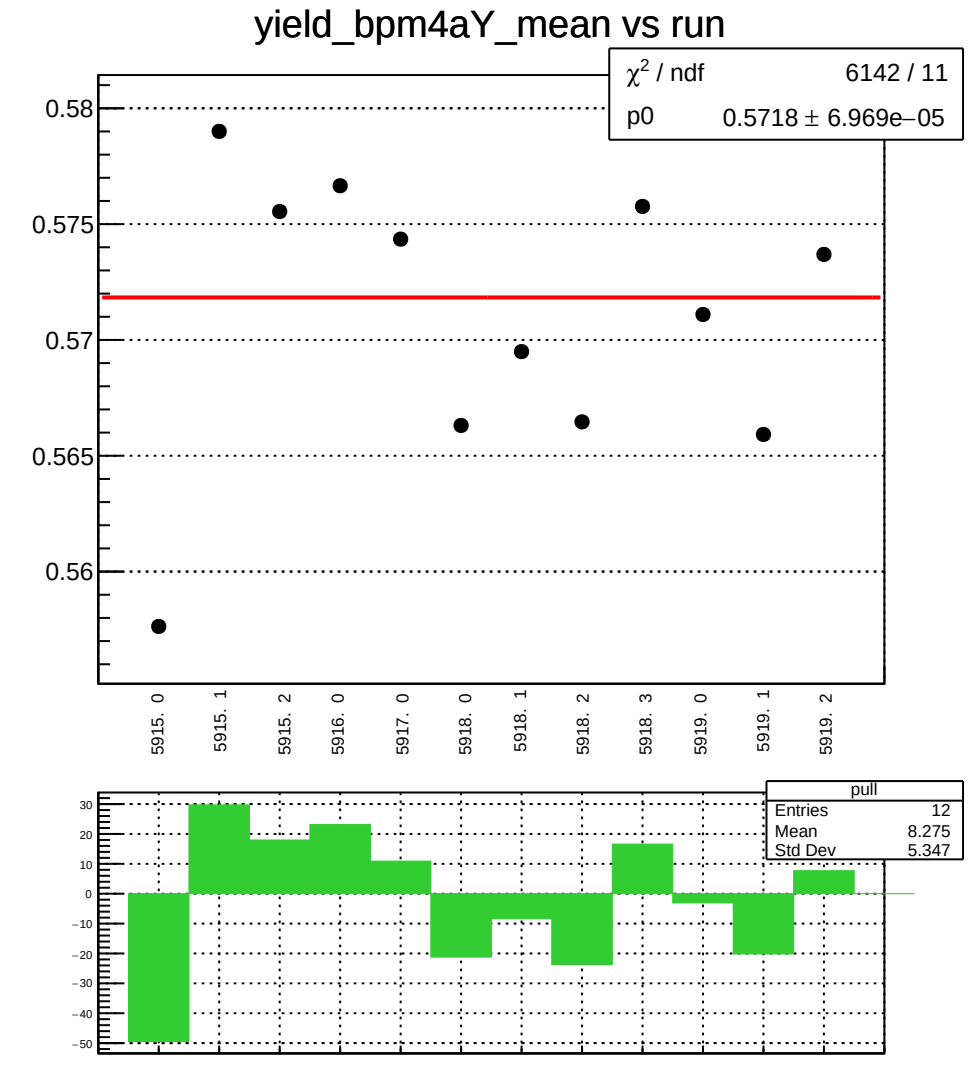

yield_cav4dY_rms vs run
χ² / ndf 2534 / 11
p0 0.001241 ± 2.381e−06
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

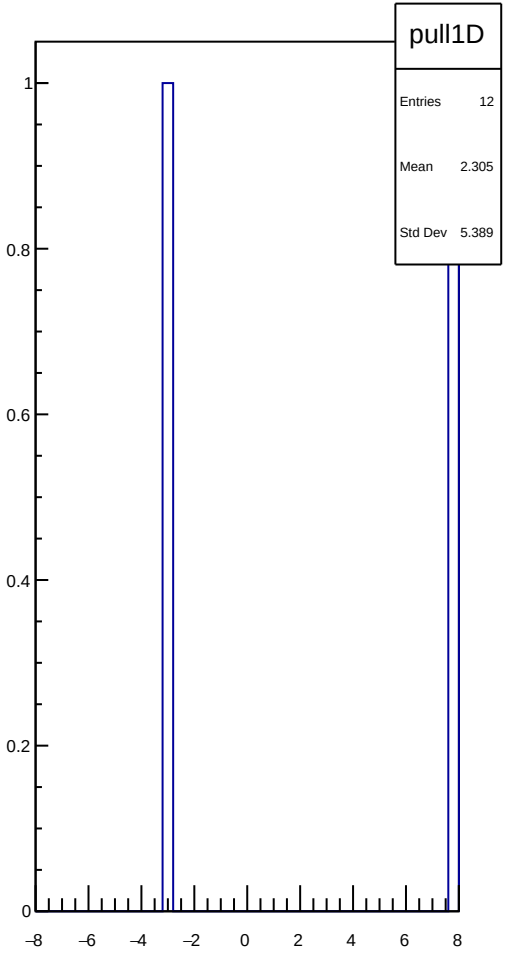

yield_bpm4aX_mean vs run
χ² / ndf 1.348e+04 / 11
p0 −0.5974 ± 5.289e−05
−0.58
−0.585
−0.59
−0.595
−0.6
−0.605
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

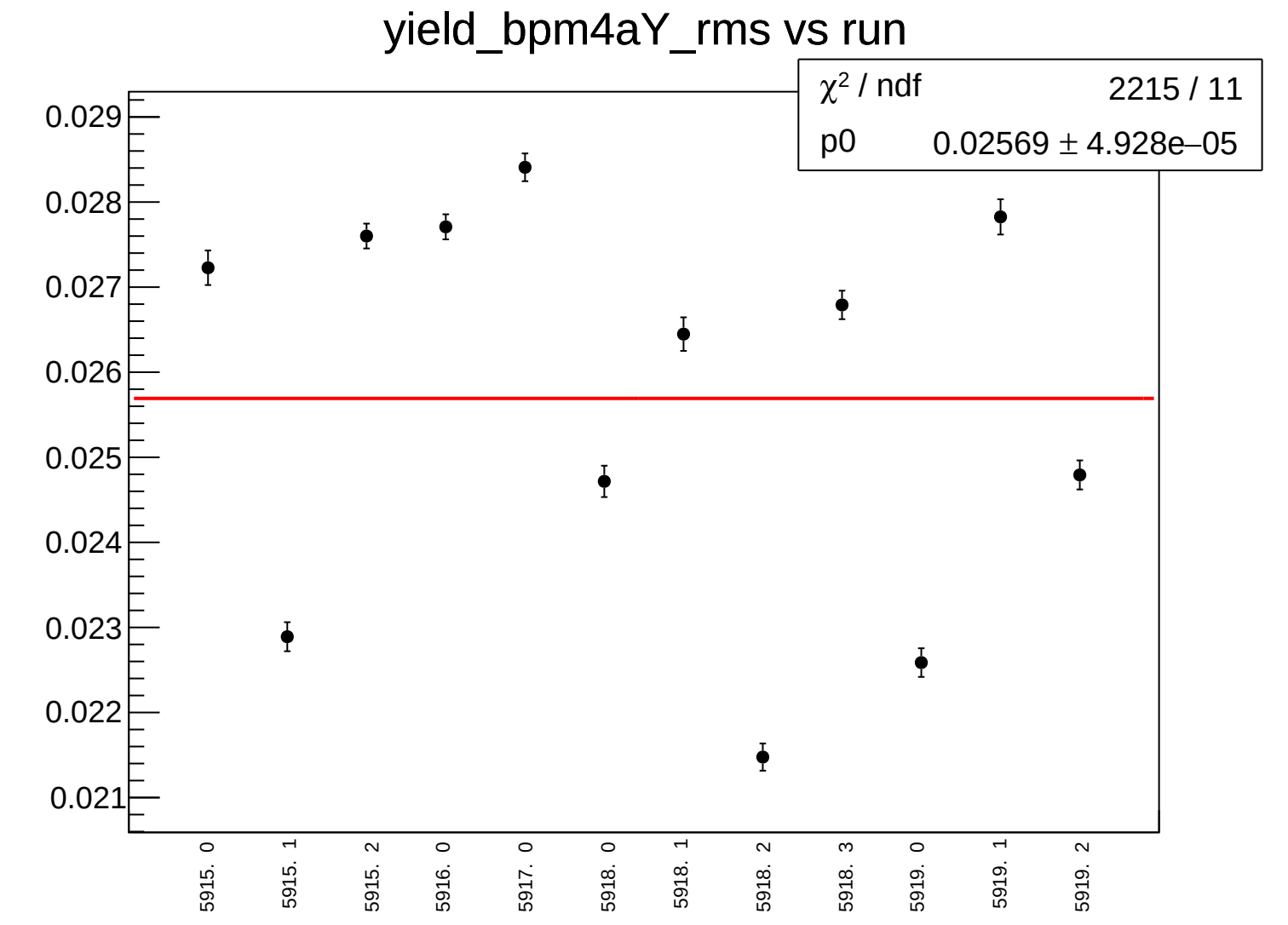

pull
Entries 12
Mean 4.089
Std Dev 3.031
60
40
20
0
−20
−40

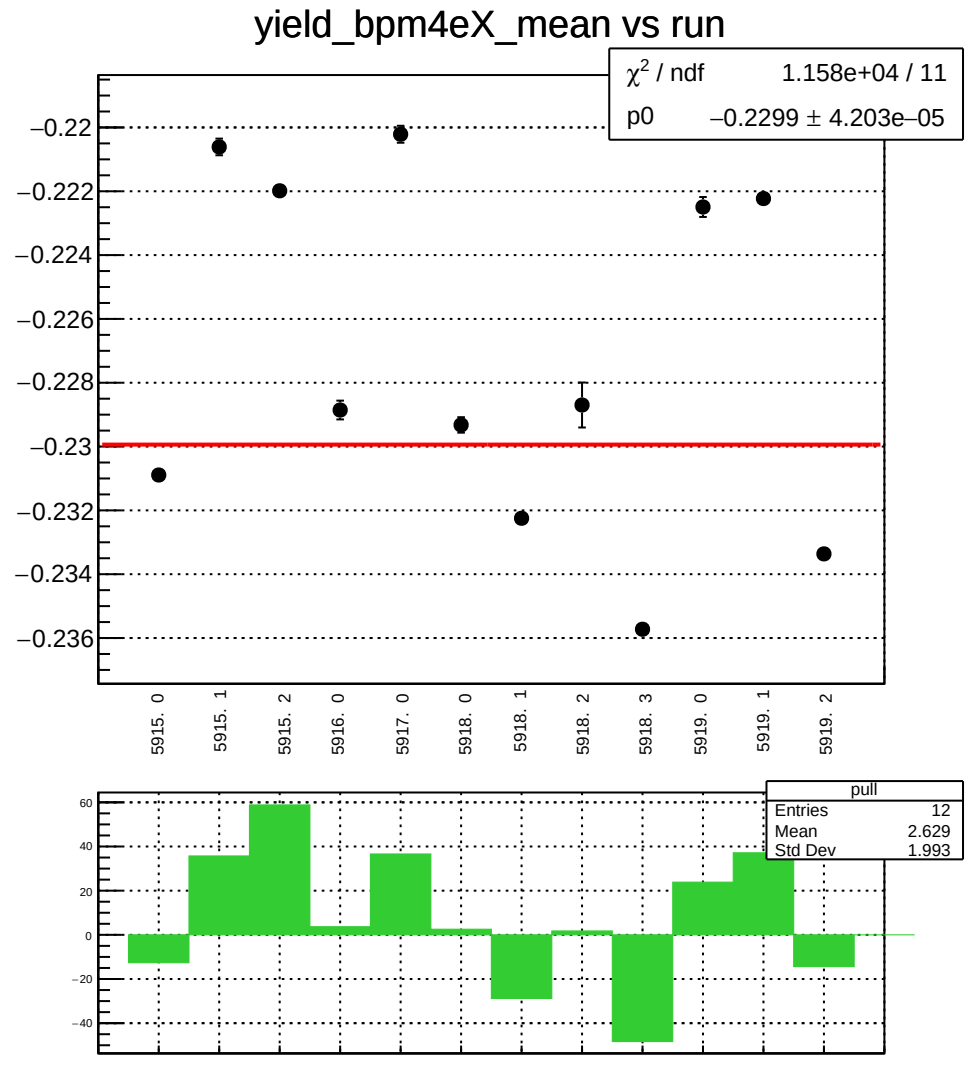

pull1D
Entries 12
Mean 1.337
Std Dev 4.166
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

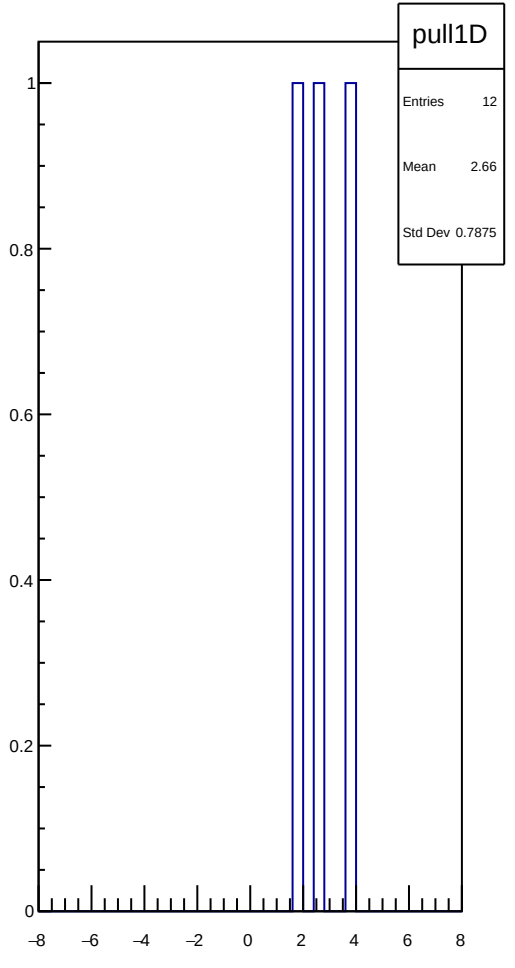

yield_bpm4aX_rms vs run
χ² / ndf 8.985e+04 / 11
p0 0.01605 ± 3.74e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

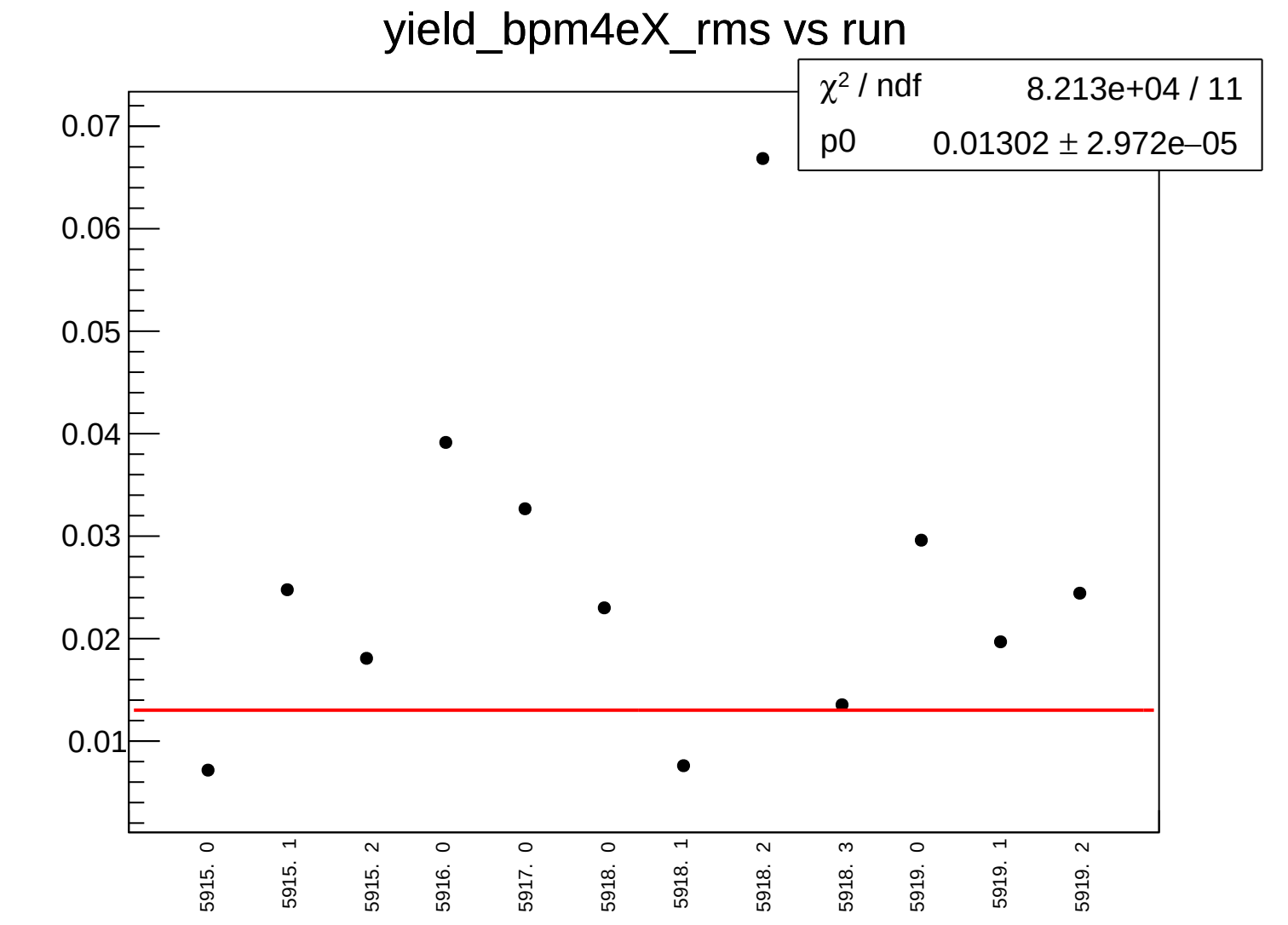

yield_bpm4aY_mean vs run
χ² / ndf 6142 / 11
p0 0.5718 ± 6.969e−05
0.58
0.575
0.57
0.565
0.56
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.275
Std Dev 5.347
30
20
10
0
−10
−20
−30
−40
−50

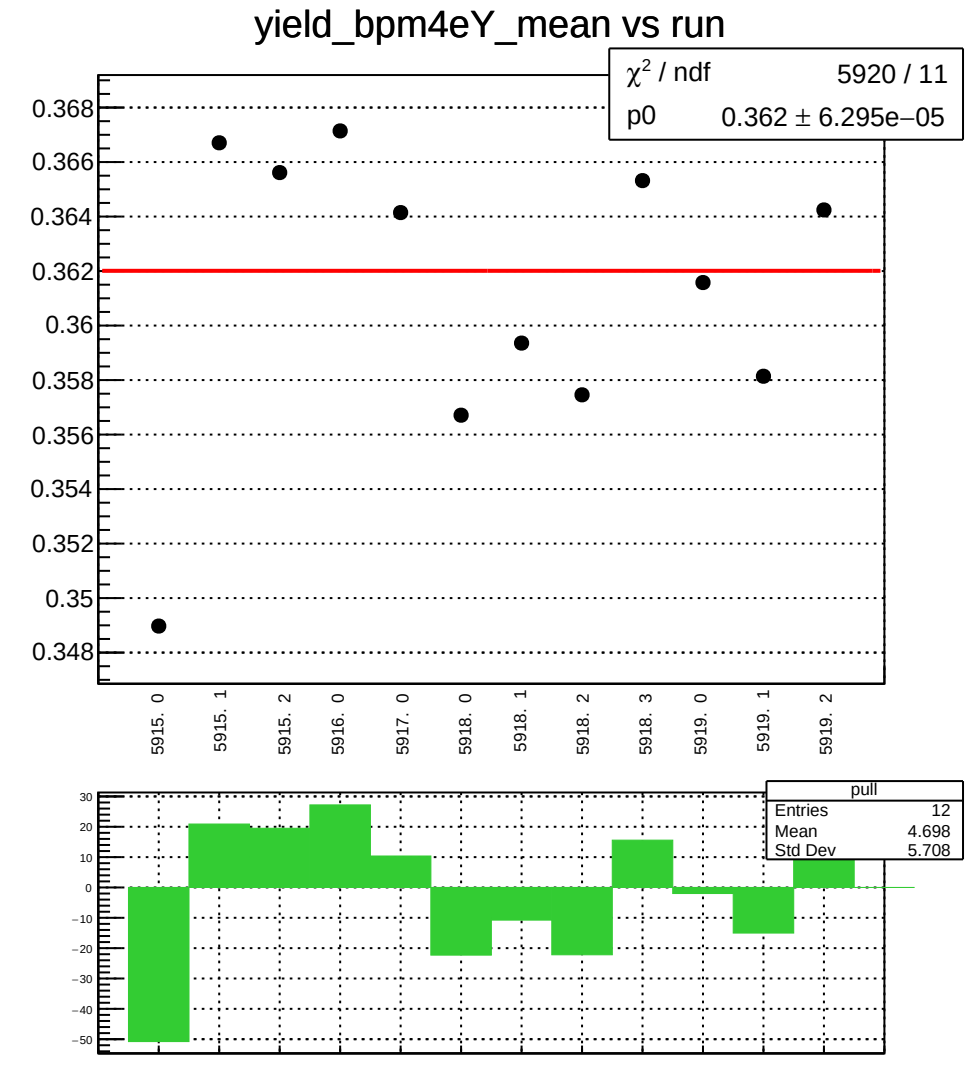

pull1D
Entries 12
Mean 2.305
Std Dev 5.389
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

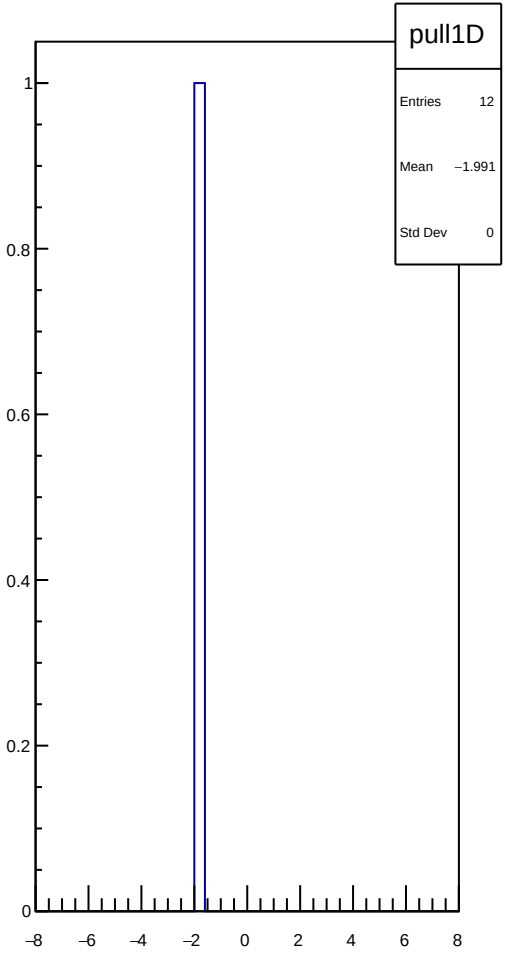

yield_bpm4aY_rms vs run
χ² / ndf 2215 / 11
p0 0.02569 ± 4.928e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

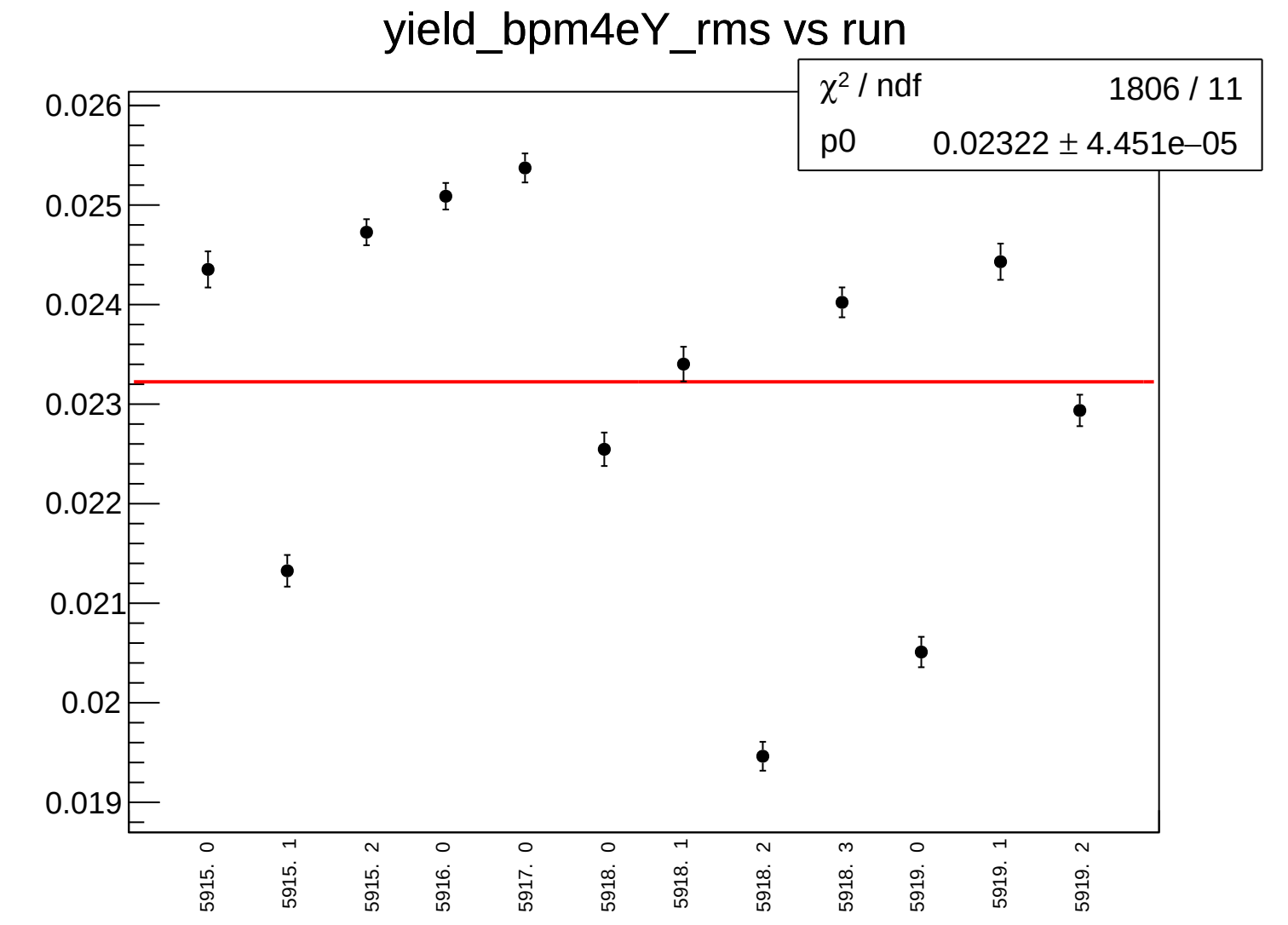

yield_bpm4eX_mean vs run
χ² / ndf 1.158e+04 / 11
p0 −0.2299 ± 4.203e−05
−0.22
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
−0.234
−0.236
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 2.629
Std Dev 1.993
60
40
20
0
−20
−40

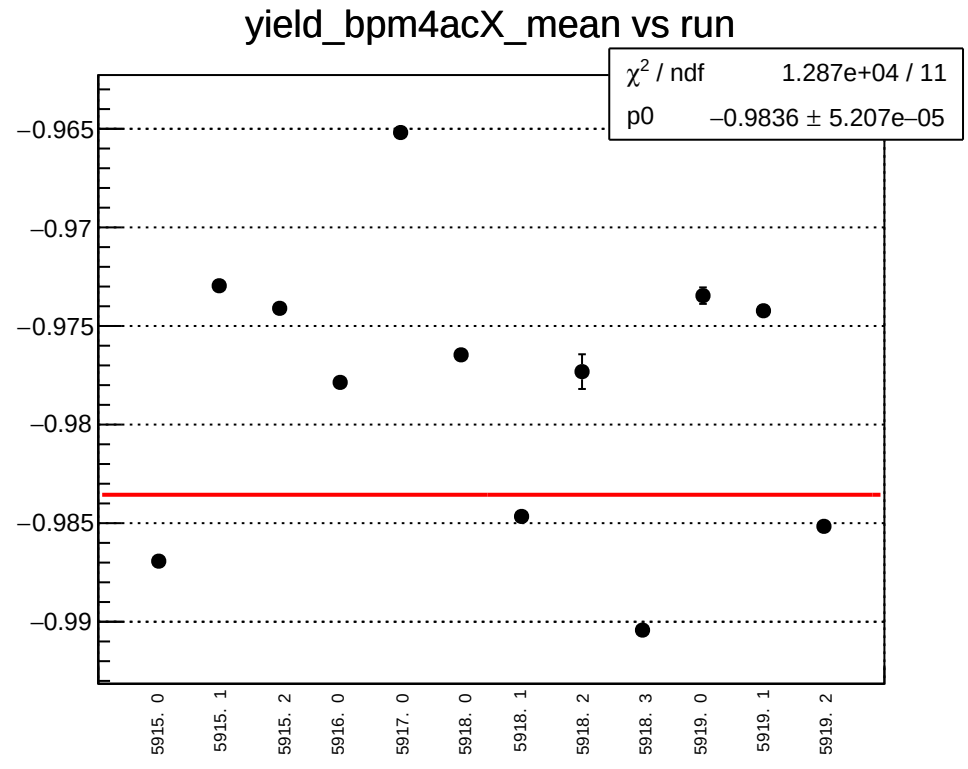

pull1D
Entries 12
Mean 2.66
Std Dev 0.7875
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

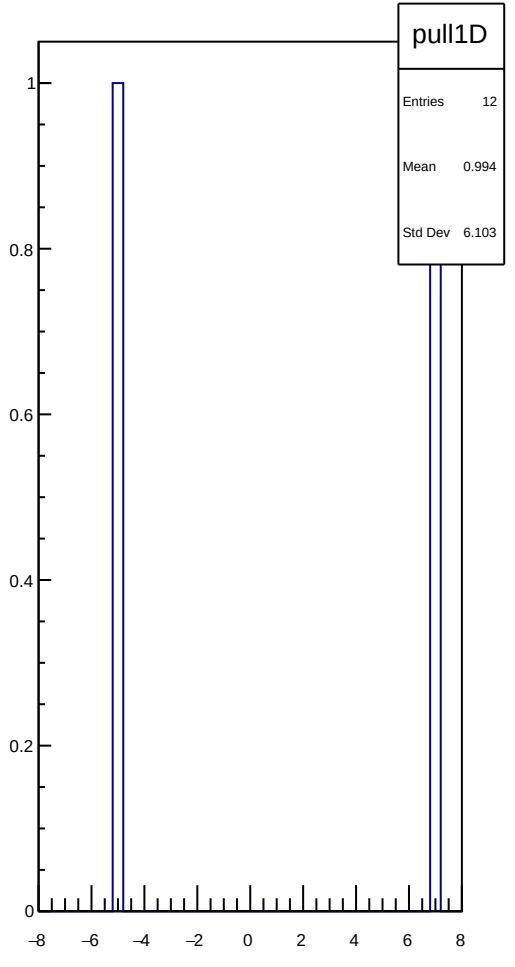

yield_bpm4eX_rms vs run
χ² / ndf 8.213e+04 / 11
p0 0.01302 ± 2.972e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

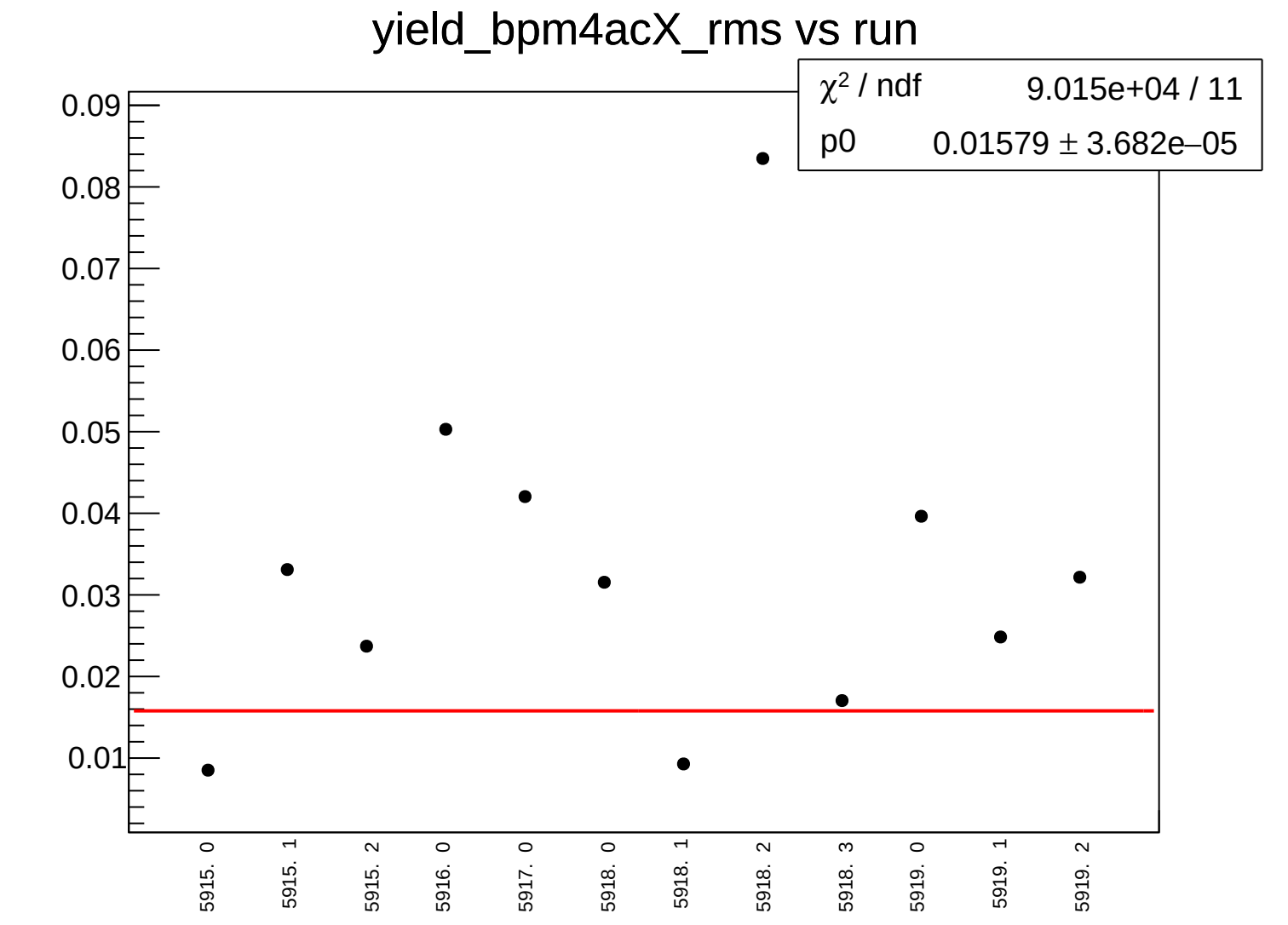

yield_bpm4eY_mean vs run
χ² / ndf 5920 / 11
p0 0.362 ± 6.295e−05
0.368
0.366
0.364
0.362
0.36
0.358
0.356
0.354
0.352
0.35
0.348
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.698
Std Dev 5.708
30
20
10
0
−10
−20
−30
−40
−50

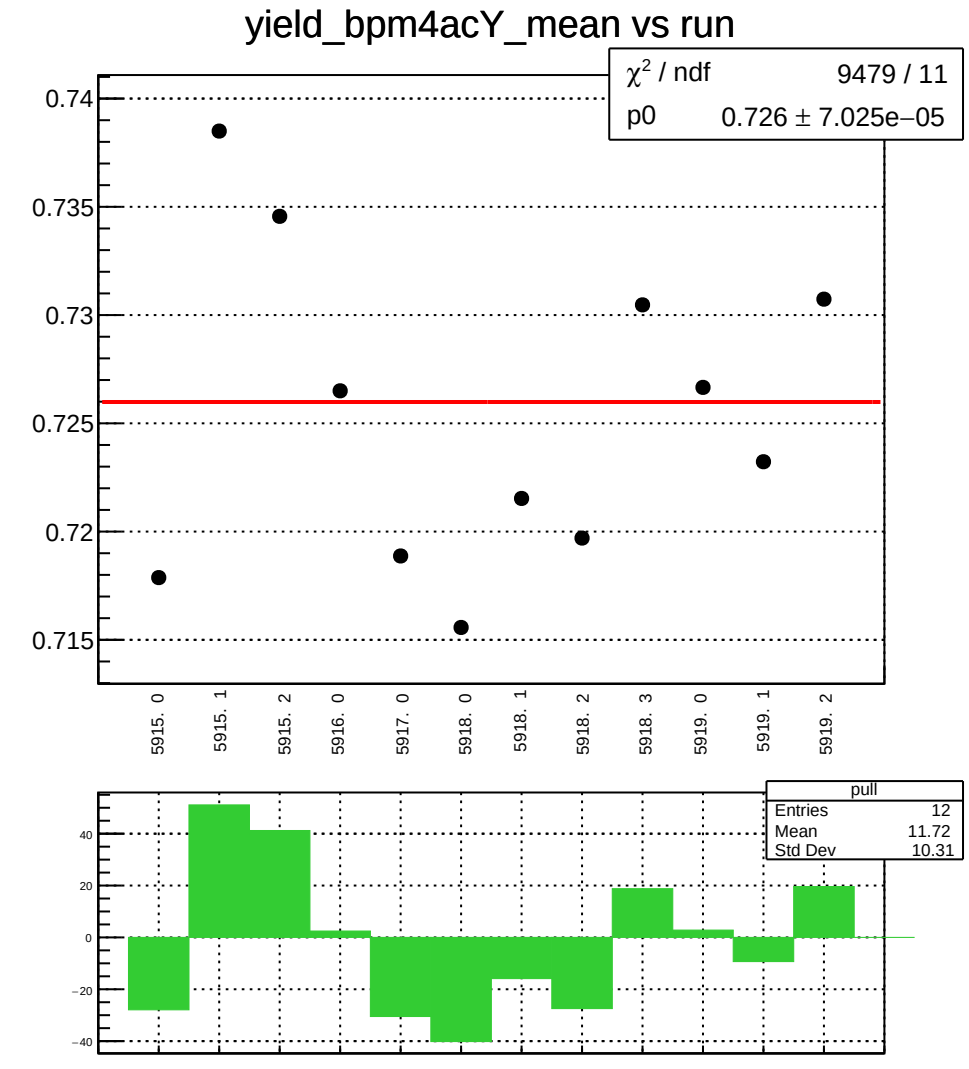

pull1D
Entries 12
Mean −1.991
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

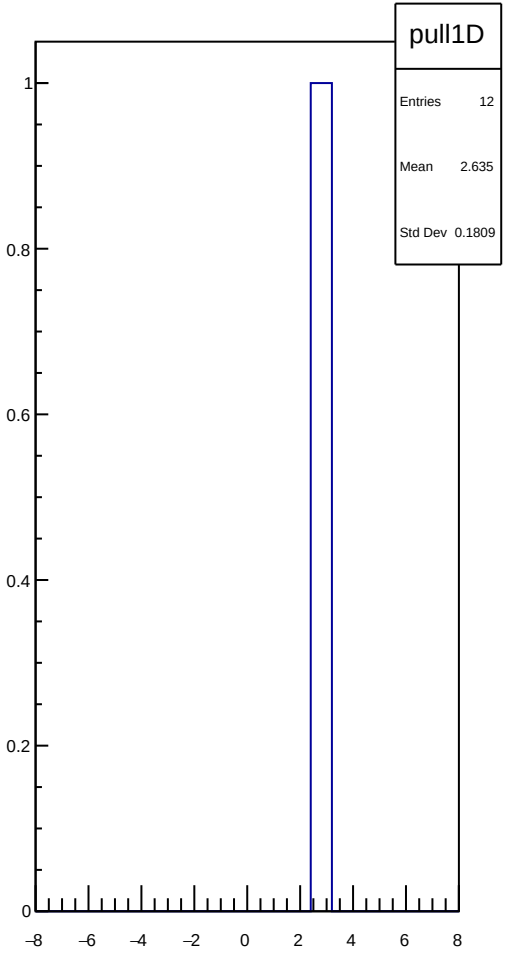

yield_bpm4eY_rms vs run
χ² / ndf 1806 / 11
p0 0.02322 ± 4.451e−05
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

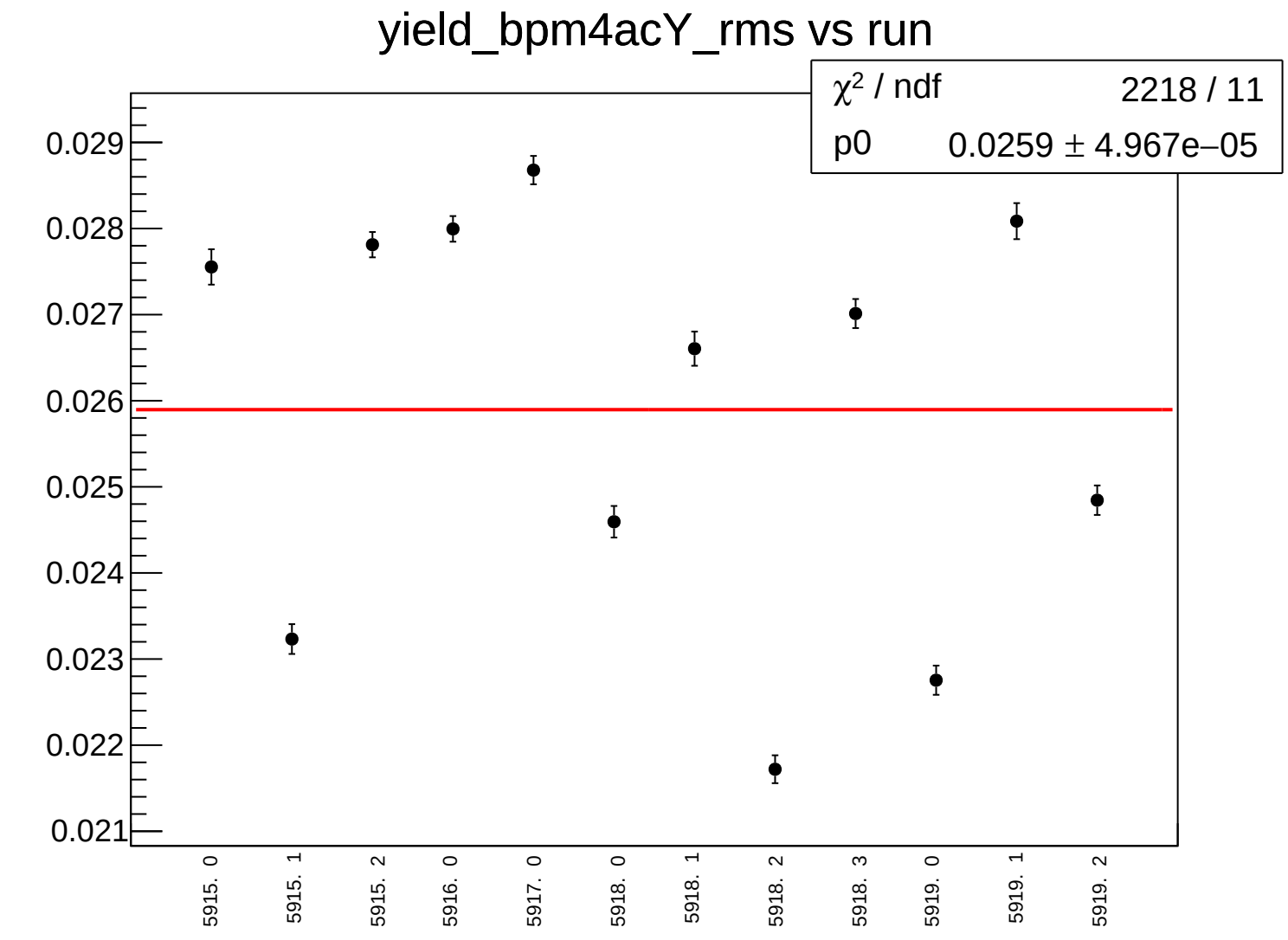

yield_bpm4acX_mean vs run
χ² / ndf 1.287e+04 / 11
p0 −0.9836 ± 5.207e−05
−0.965
−0.97
−0.975
−0.98
−0.985
−0.99
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 5.024
Std Dev 2.396
40
20
0
−20
−40

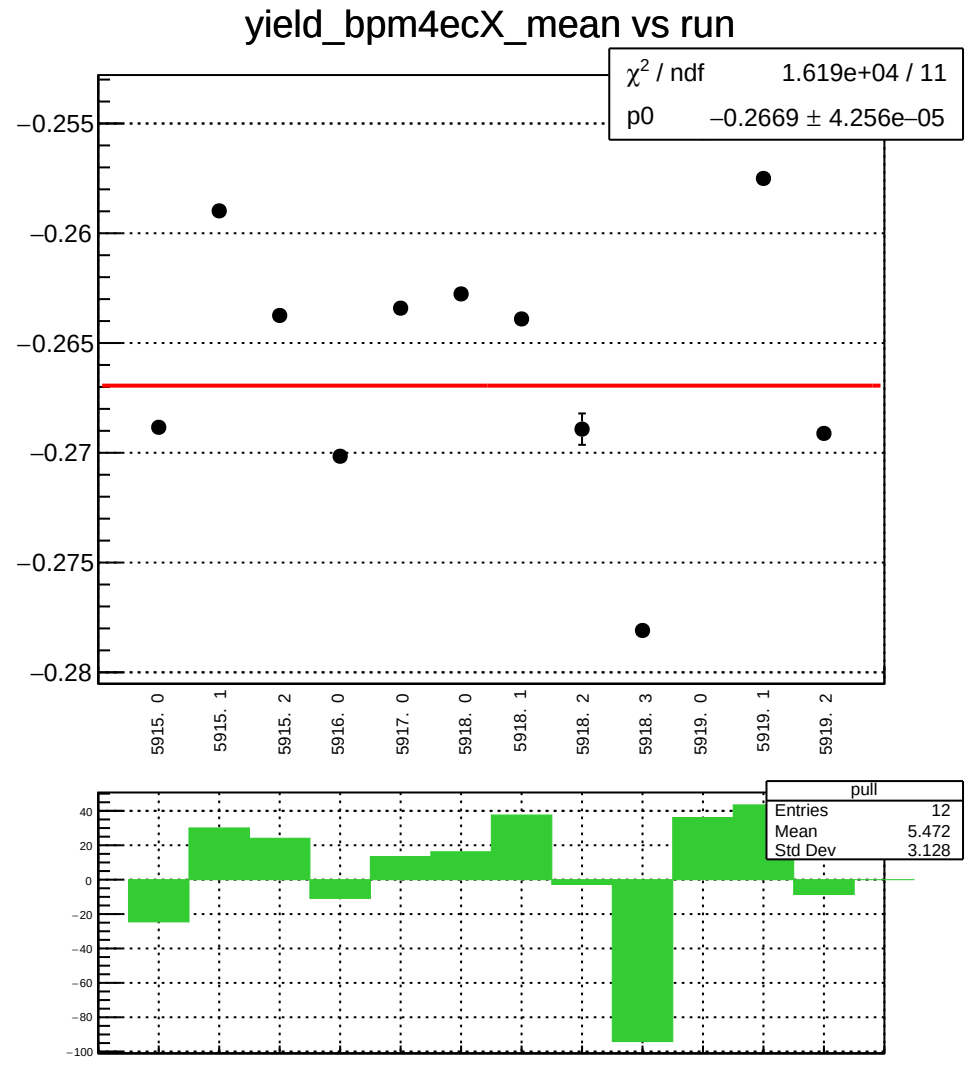

pull1D
Entries 12
Mean 0.994
Std Dev 6.103
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

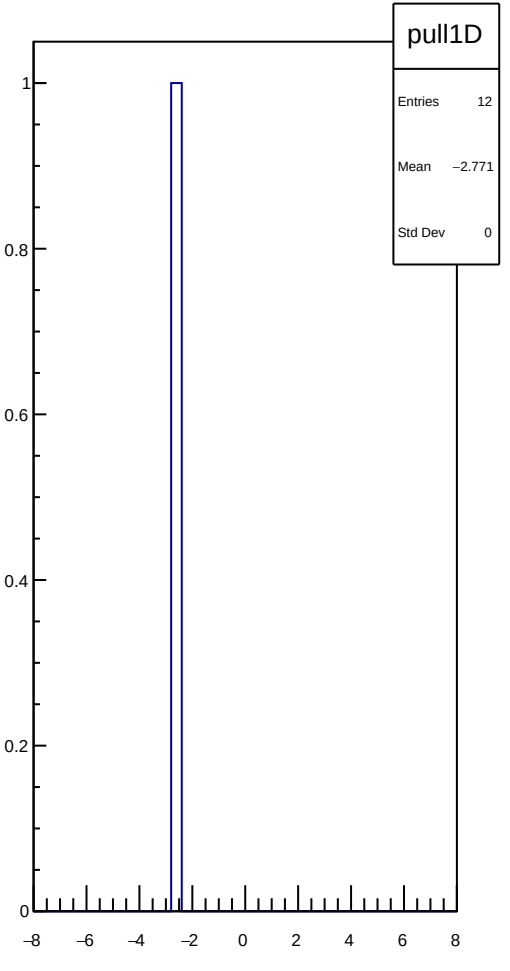

yield_bpm4acX_rms vs run
χ² / ndf 9.015e+04 / 11
p0 0.01579 ± 3.682e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

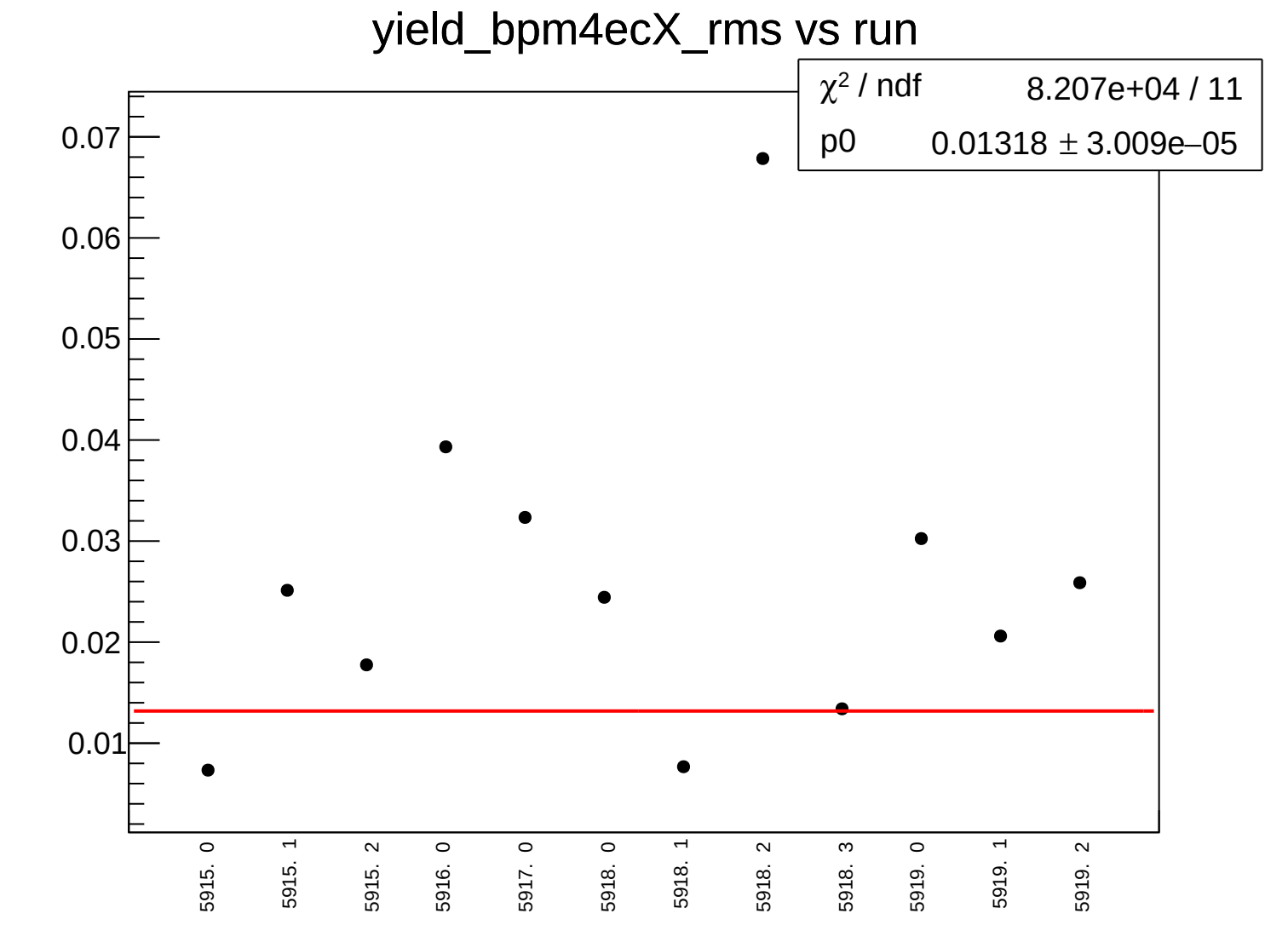

yield_bpm4acY_mean vs run
χ² / ndf 9479 / 11
p0 0.726 ± 7.025e−05
0.74
0.735
0.73
0.725
0.72
0.715
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.72
Std Dev 10.31
40
20
0
−20
−40

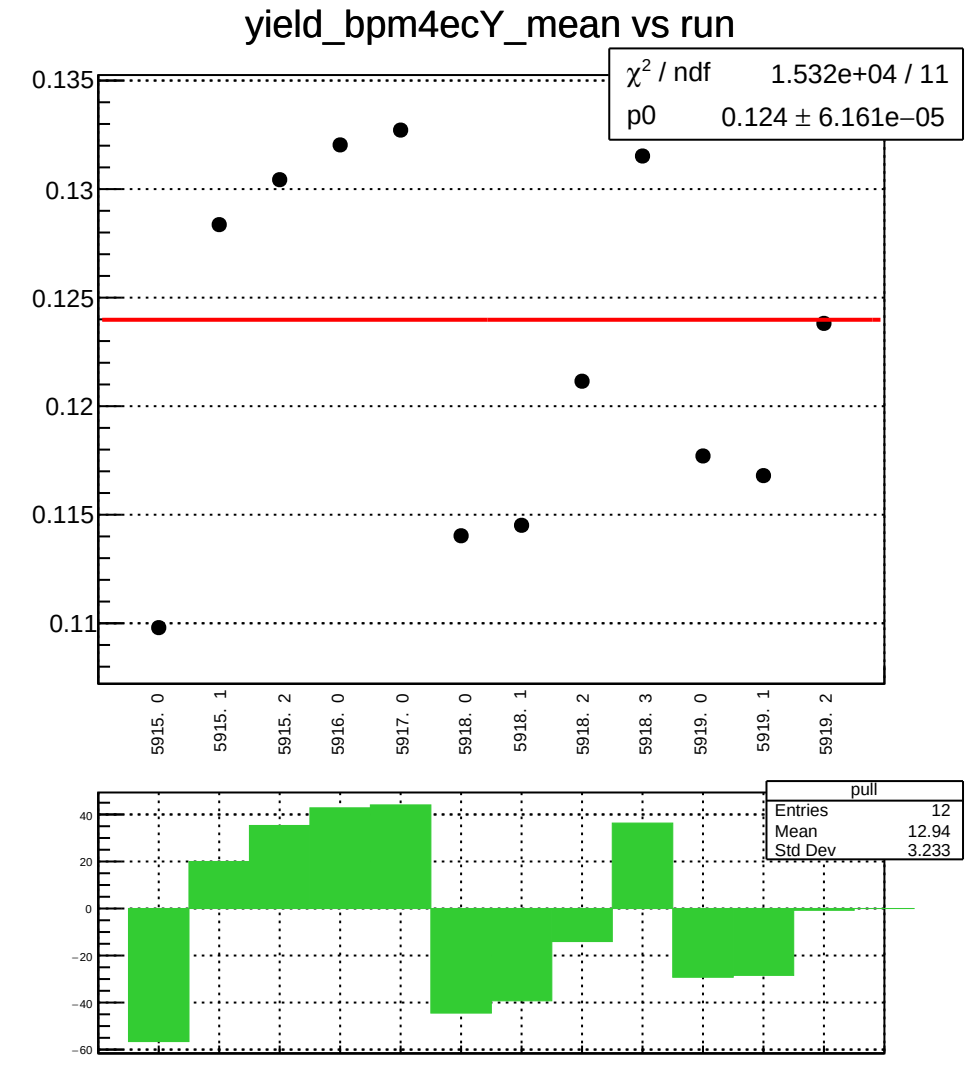

pull1D
Entries 12
Mean 2.635
Std Dev 0.1809
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

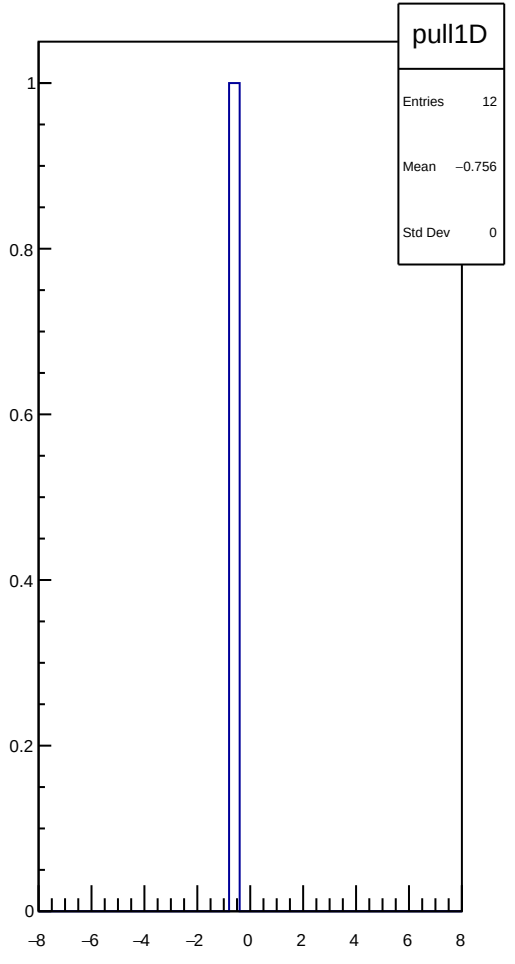

yield_bpm4acY_rms vs run
χ² / ndf 2218 / 11
p0 0.0259 ± 4.967e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

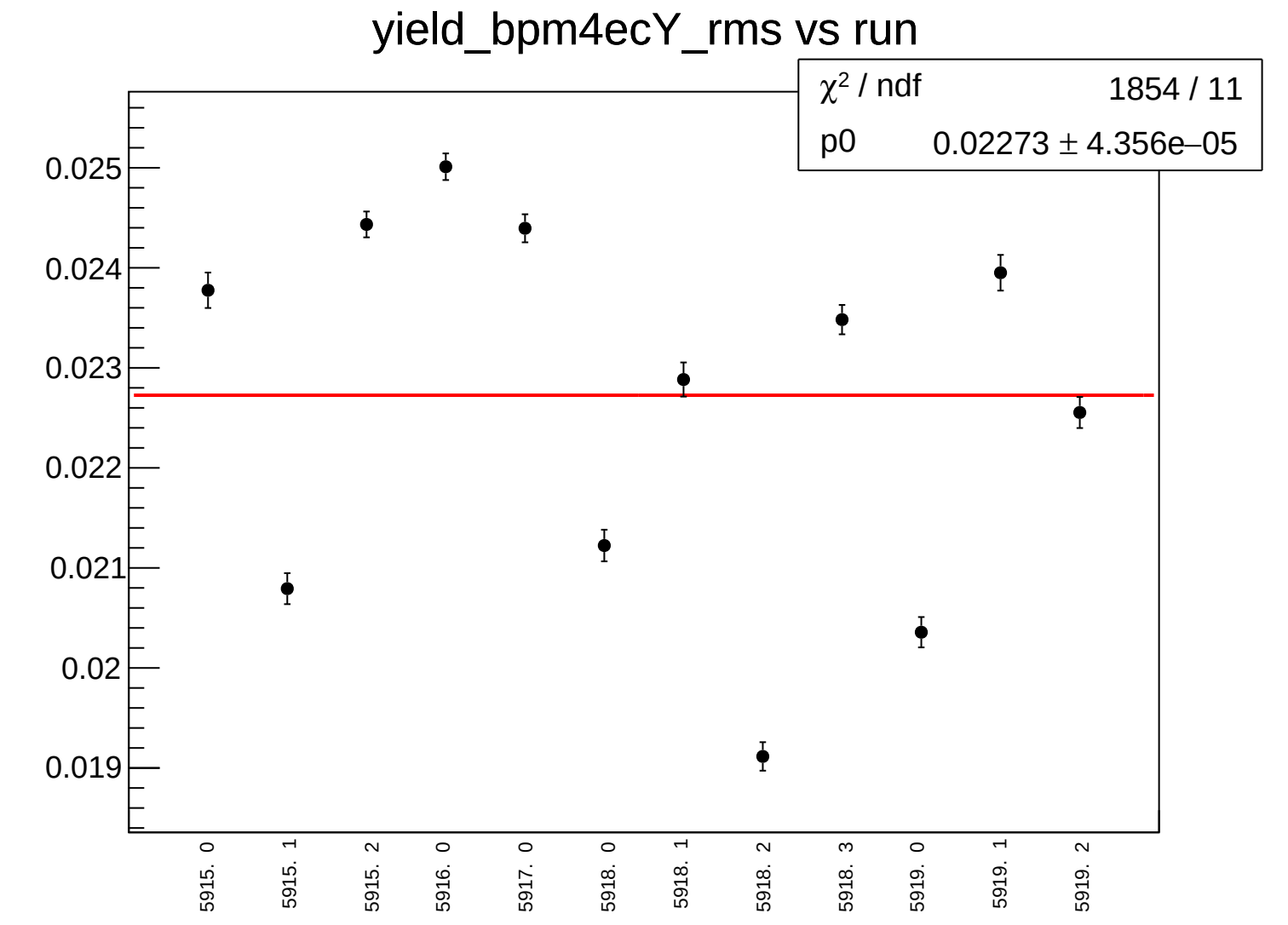

yield_bpm4ecX_mean vs run
χ² / ndf 1.619e+04 / 11
p0 −0.2669 ± 4.256e−05
−0.255
−0.26
−0.265
−0.27
−0.275
−0.28
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 5.472
Std Dev 3.128
40
20
0
−20
−40
−60
−80
−100

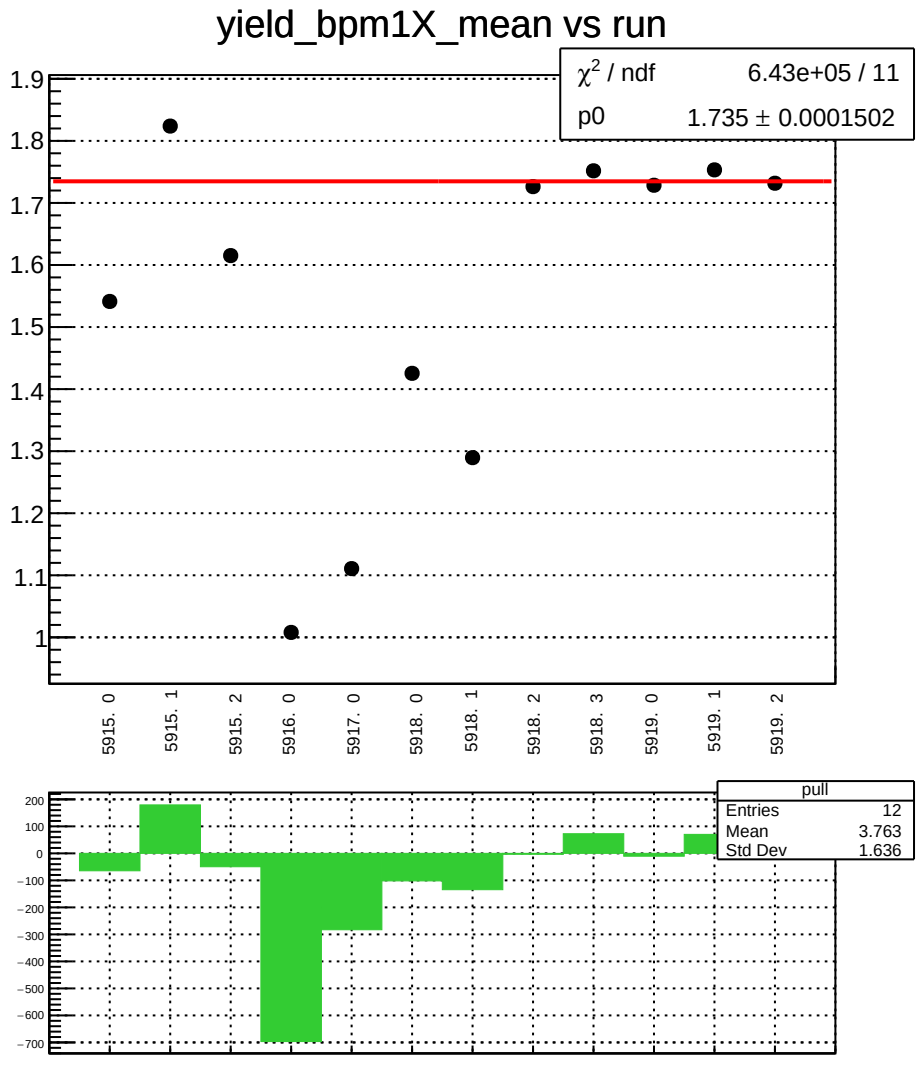

pull1D
Entries 12
Mean −2.771
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

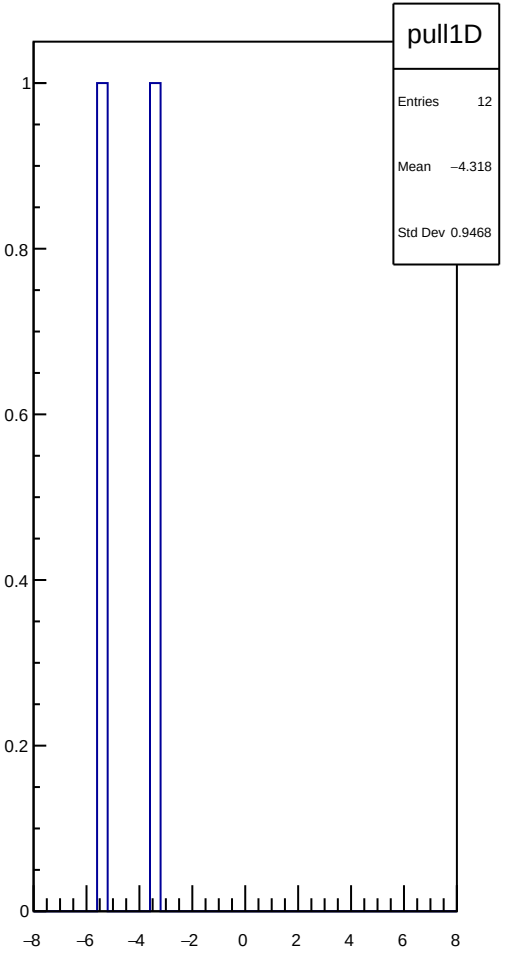

yield_bpm4ecX_rms vs run
χ² / ndf 8.207e+04 / 11
p0 0.01318 ± 3.009e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

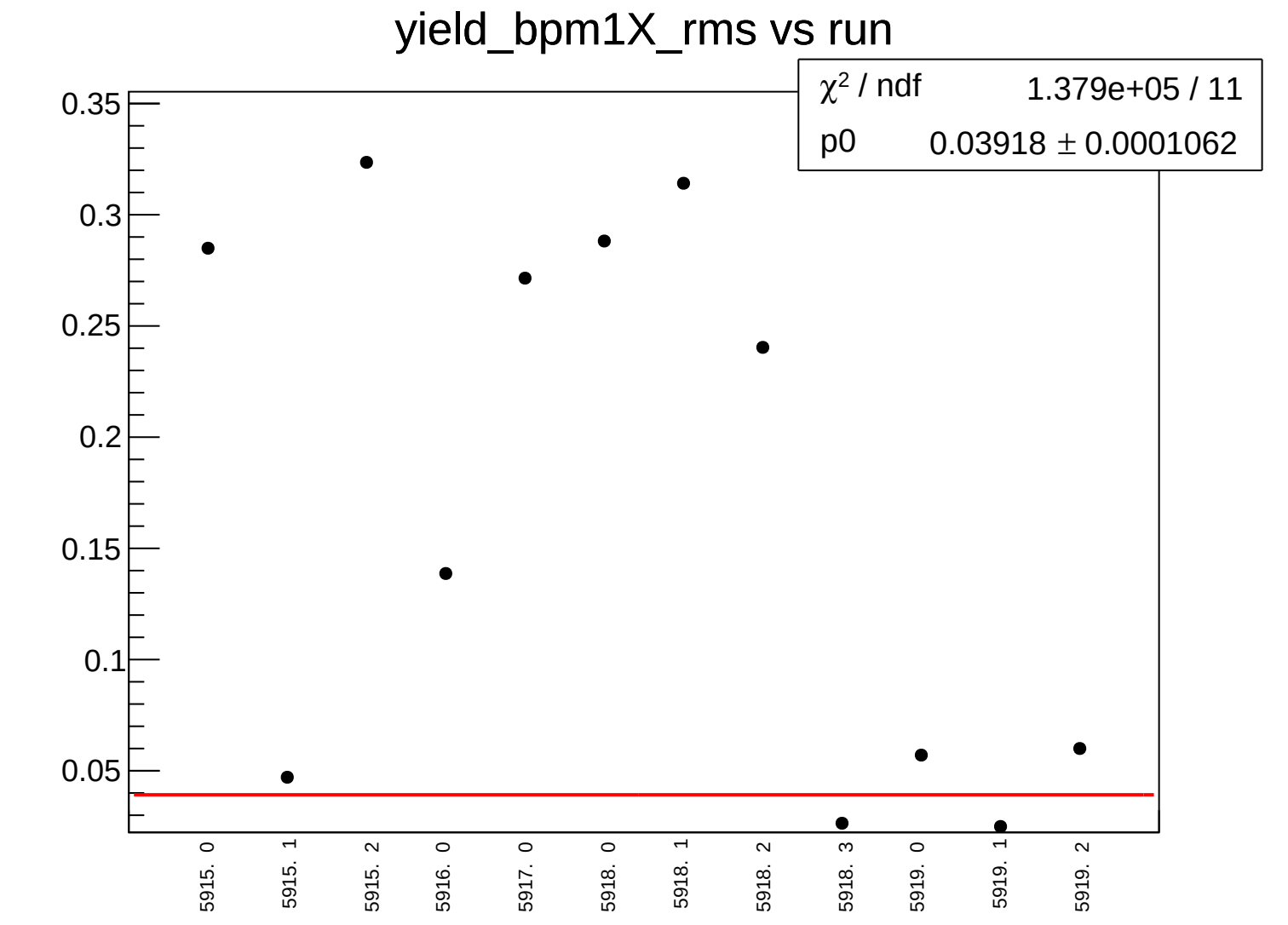

yield_bpm4ecY_mean vs run
χ² / ndf 1.532e+04 / 11
p0 0.124 ± 6.161e−05
0.135
0.13
0.125
0.12
0.115
0.11
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.94
Std Dev 3.233
40
20
0
−20
−40
−60

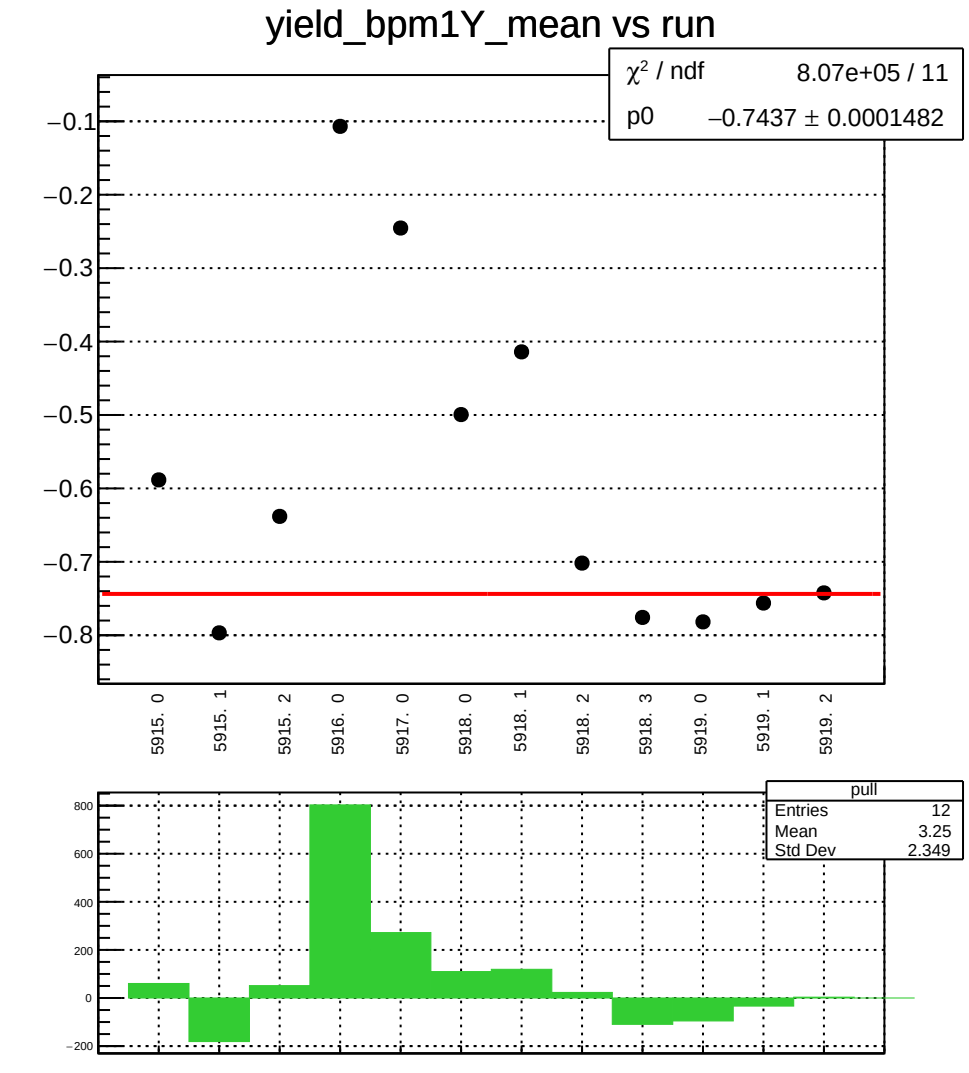

pull1D
Entries 12
Mean −0.756
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

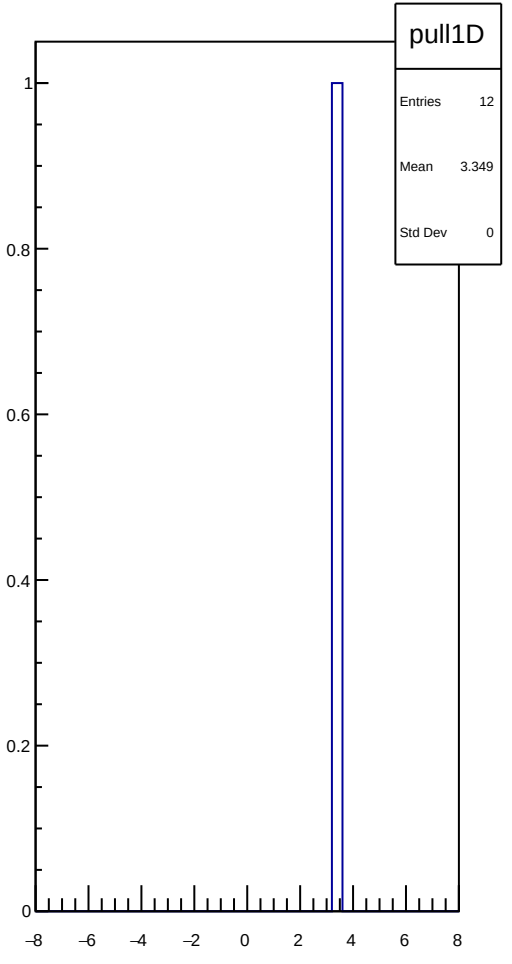

yield_bpm4ecY_rms vs run
χ² / ndf 1854 / 11
p0 0.02273 ± 4.356e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

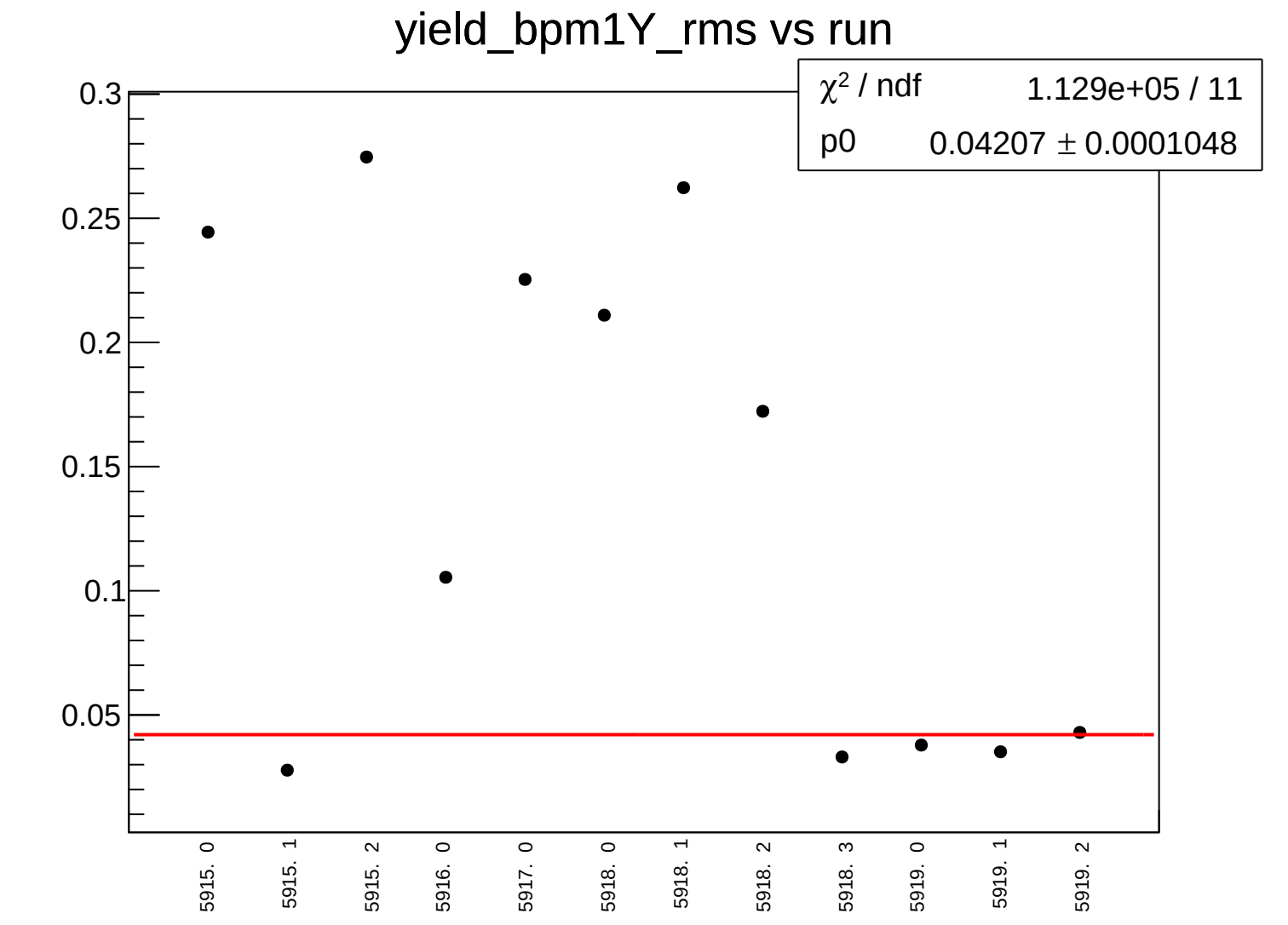

yield_bpm1X_mean vs run
χ² / ndf 6.43e+05 / 11
p0 1.735 ± 0.0001502
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.763
Std Dev 1.636
200
100
0
−100
−200
−300
−400
−500
−600
−700

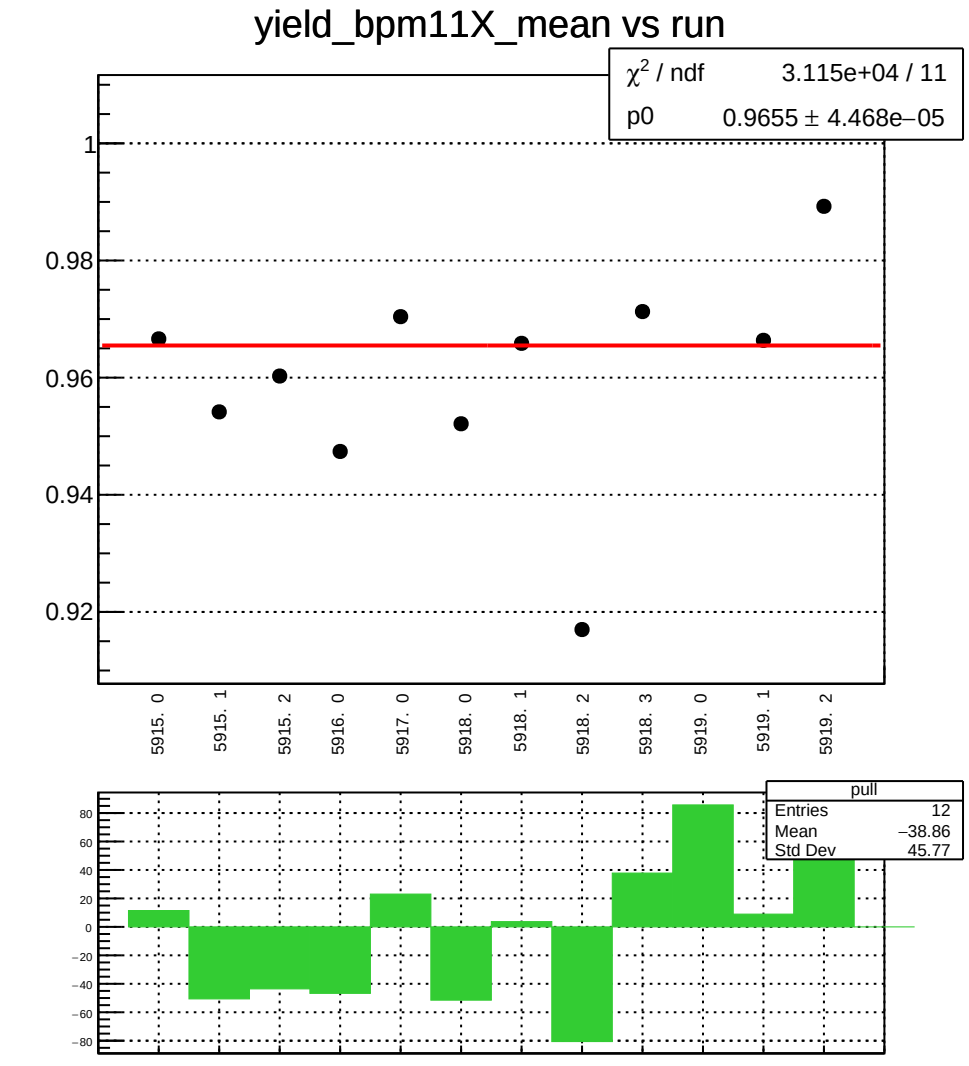

pull1D
Entries 12
Mean −4.318
Std Dev 0.9468
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

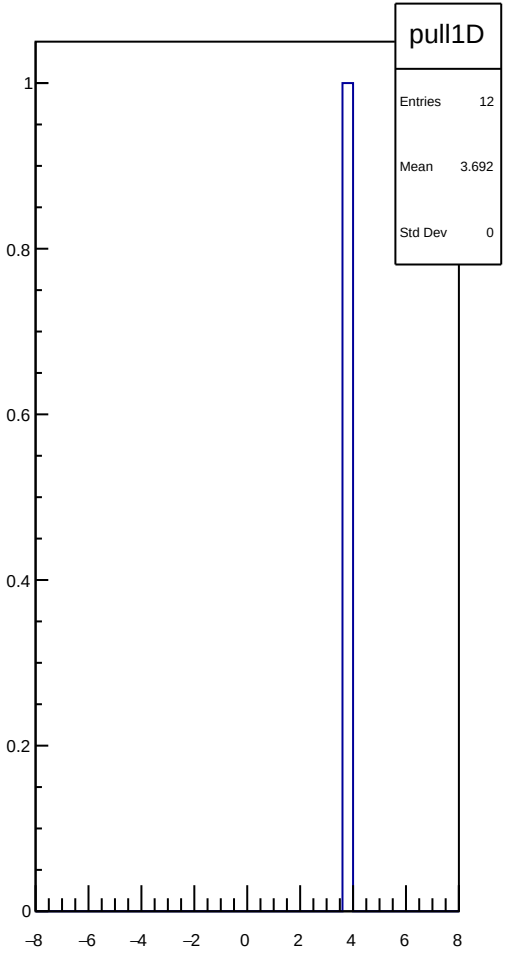

yield_bpm1X_rms vs run
χ² / ndf 1.379e+05 / 11
p0 0.03918 ± 0.0001062
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

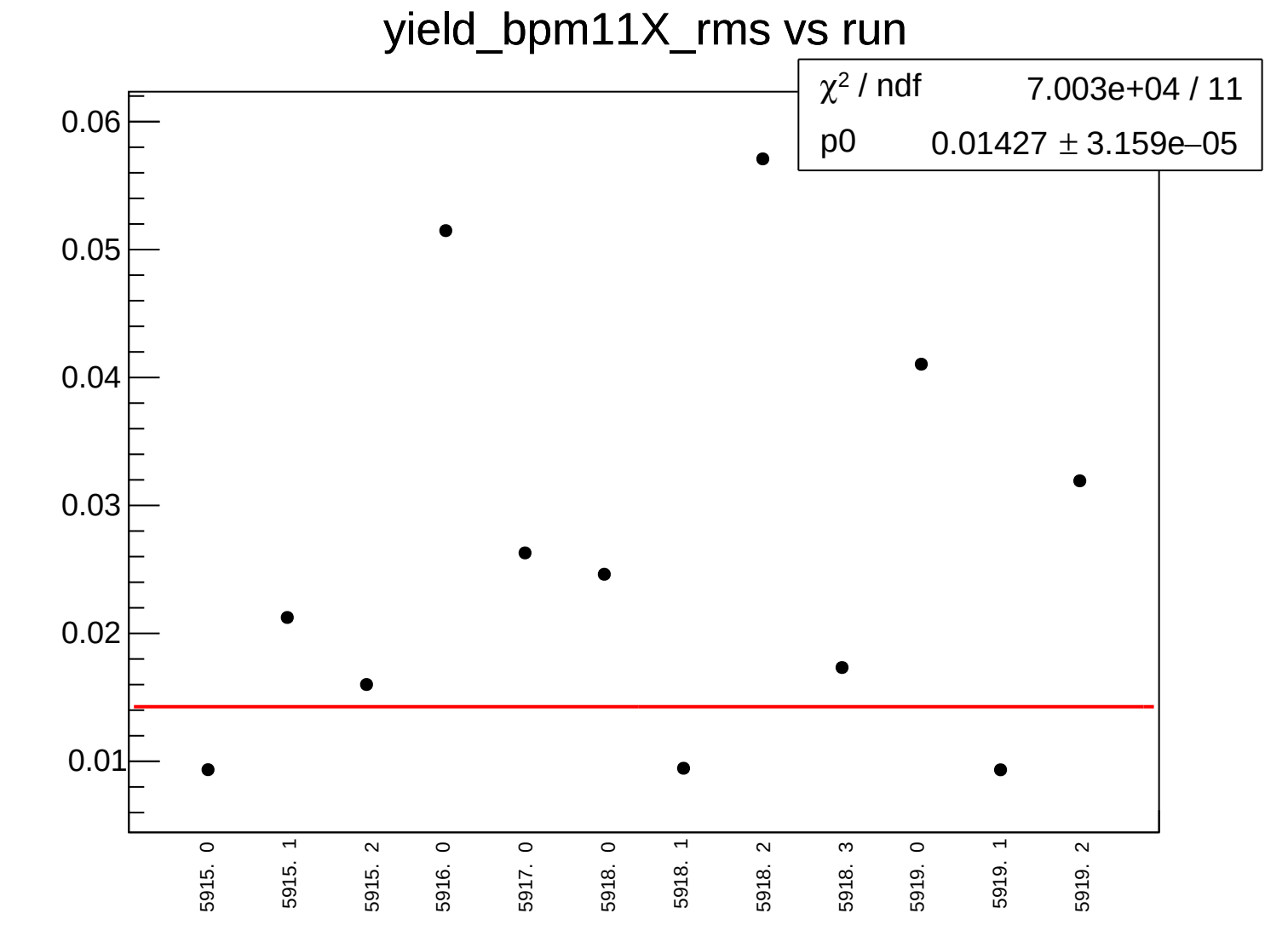

yield_bpm1Y_mean vs run
χ² / ndf 8.07e+05 / 11
p0 −0.7437 ± 0.0001482
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.25
Std Dev 2.349
800
600
400
200
0
−200

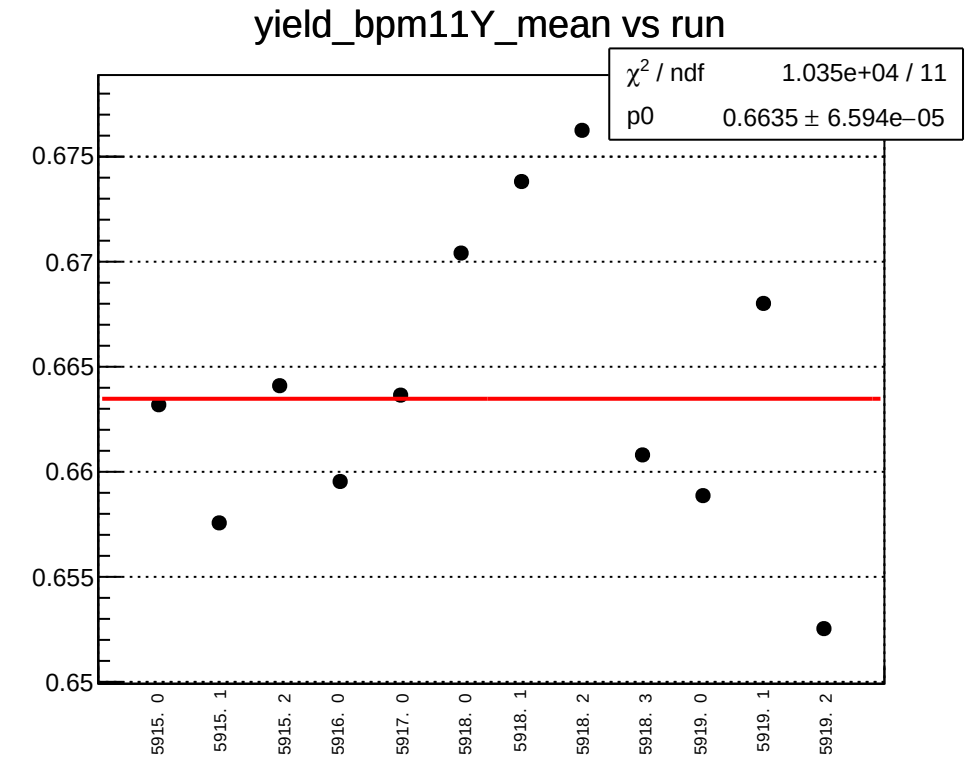

pull1D
Entries 12
Mean 3.349
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

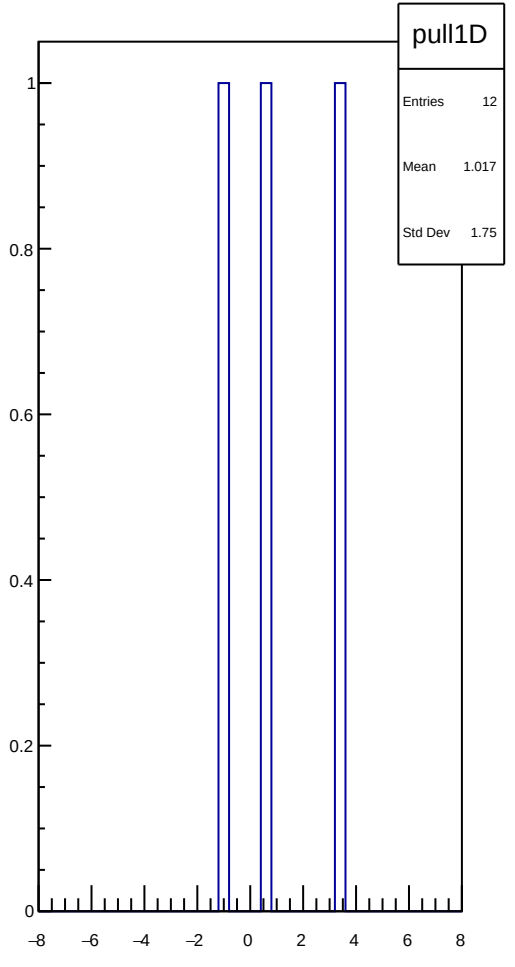

yield_bpm1Y_rms vs run
χ² / ndf 1.129e+05 / 11
p0 0.04207 ± 0.0001048
0.3
0.25
0.2
0.15
0.1
0.05
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

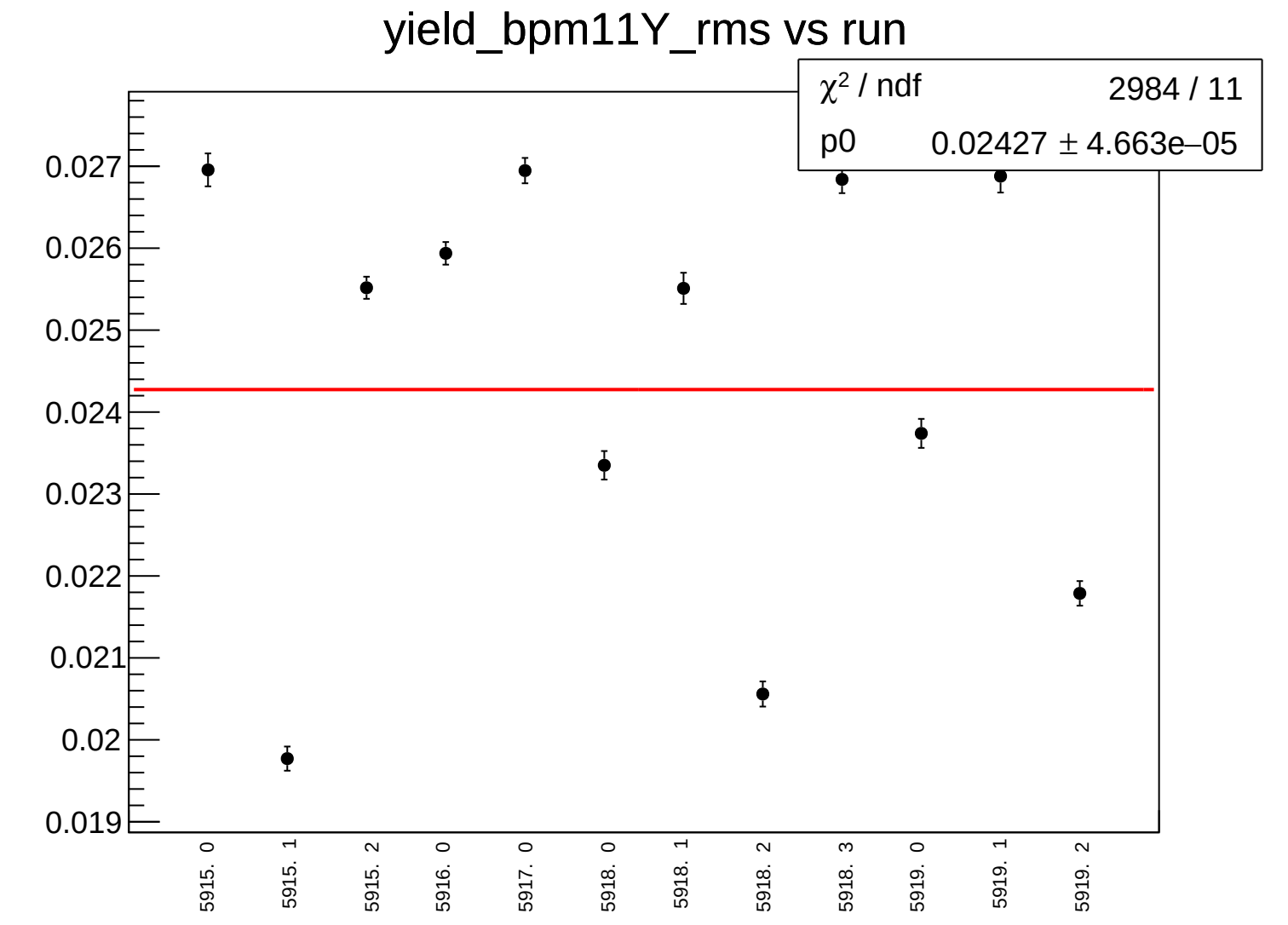

yield_bpm11X_mean vs run
χ² / ndf 3.115e+04 / 11
p0 0.9655 ± 4.468e−05
1
0.98
0.96
0.94
0.92
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −38.86
Std Dev 45.77
80
60
40
20
0
−20
−40
−60
−80

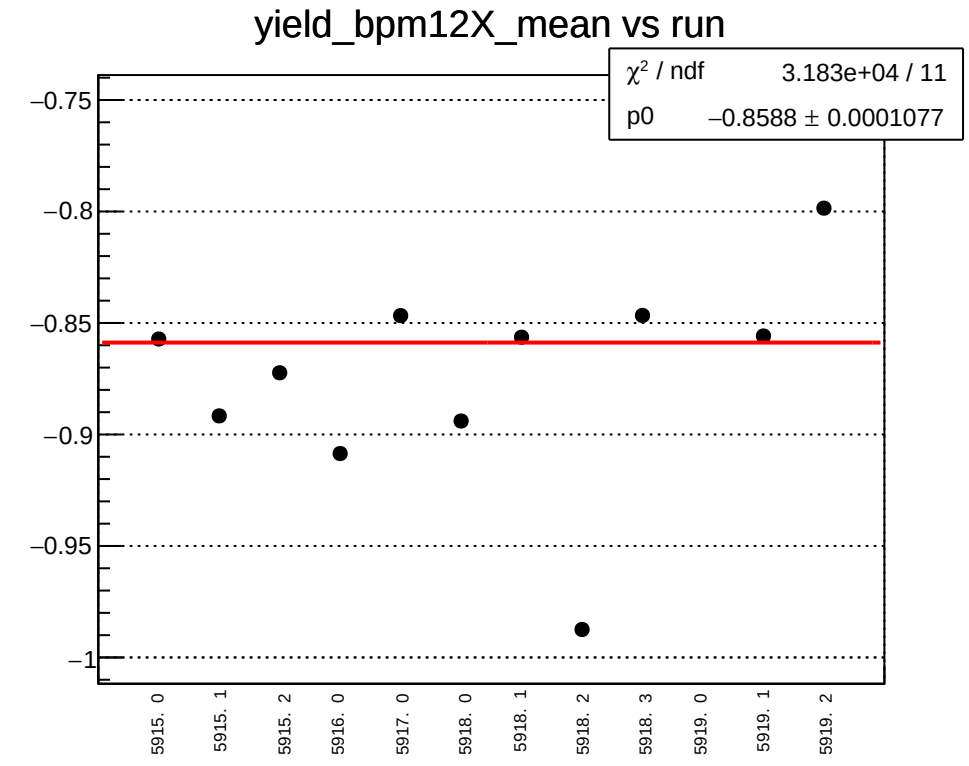

pull1D
Entries 12
Mean 3.692
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

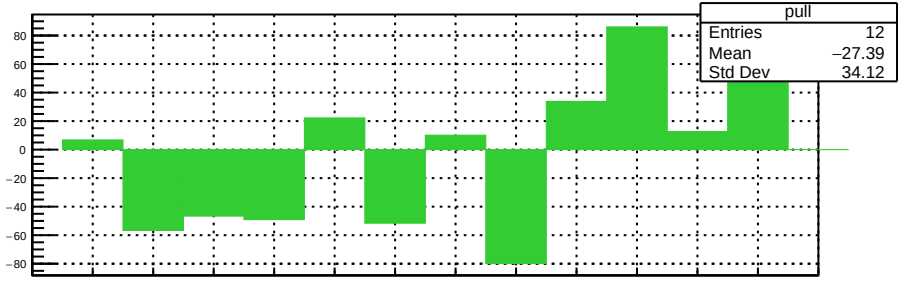

yield_bpm11X_rms vs run
χ² / ndf 7.003e+04 / 11
p0 0.01427 ± 3.159e–05
0.06
0.05
0.04
0.03
0.02
0.01
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

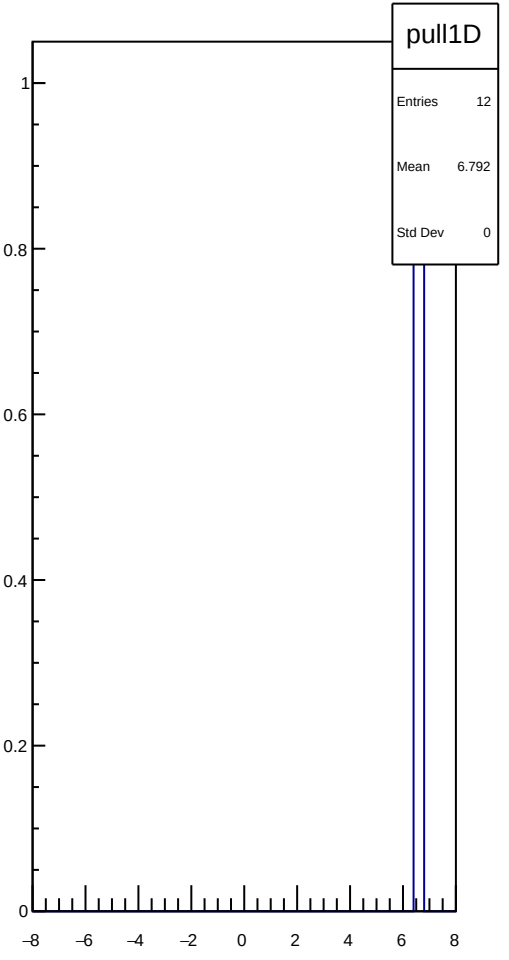

yield_bpm11Y_mean vs run
χ² / ndf 1.035e+04 / 11
p0 0.6635 ± 6.594e−05
0.675
0.67
0.665
0.66
0.655
0.65
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.354
Std Dev 12.07
60
40
20
0
−20
−40

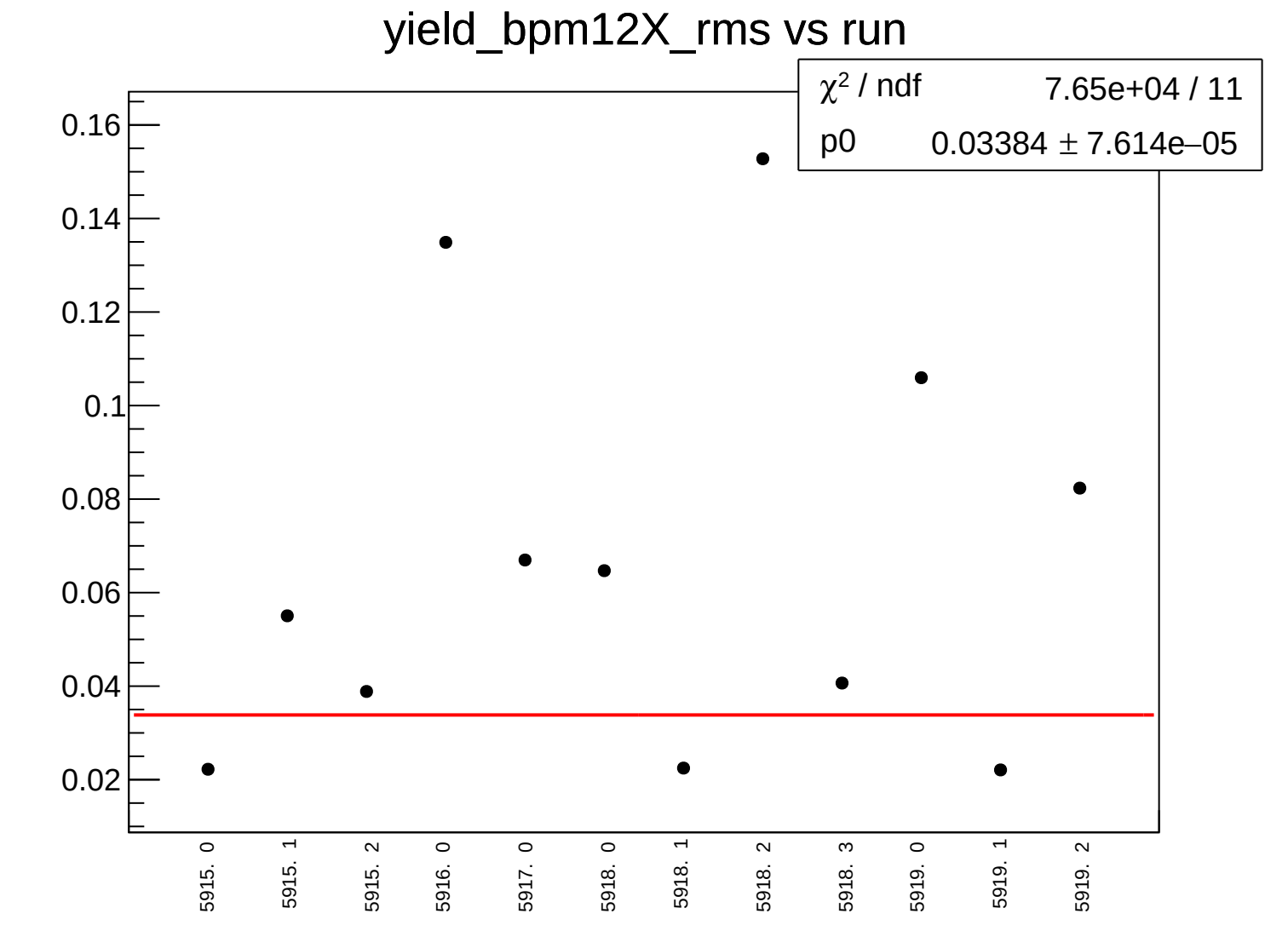

pull1D
Entries 12
Mean 1.017
Std Dev 1.75
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

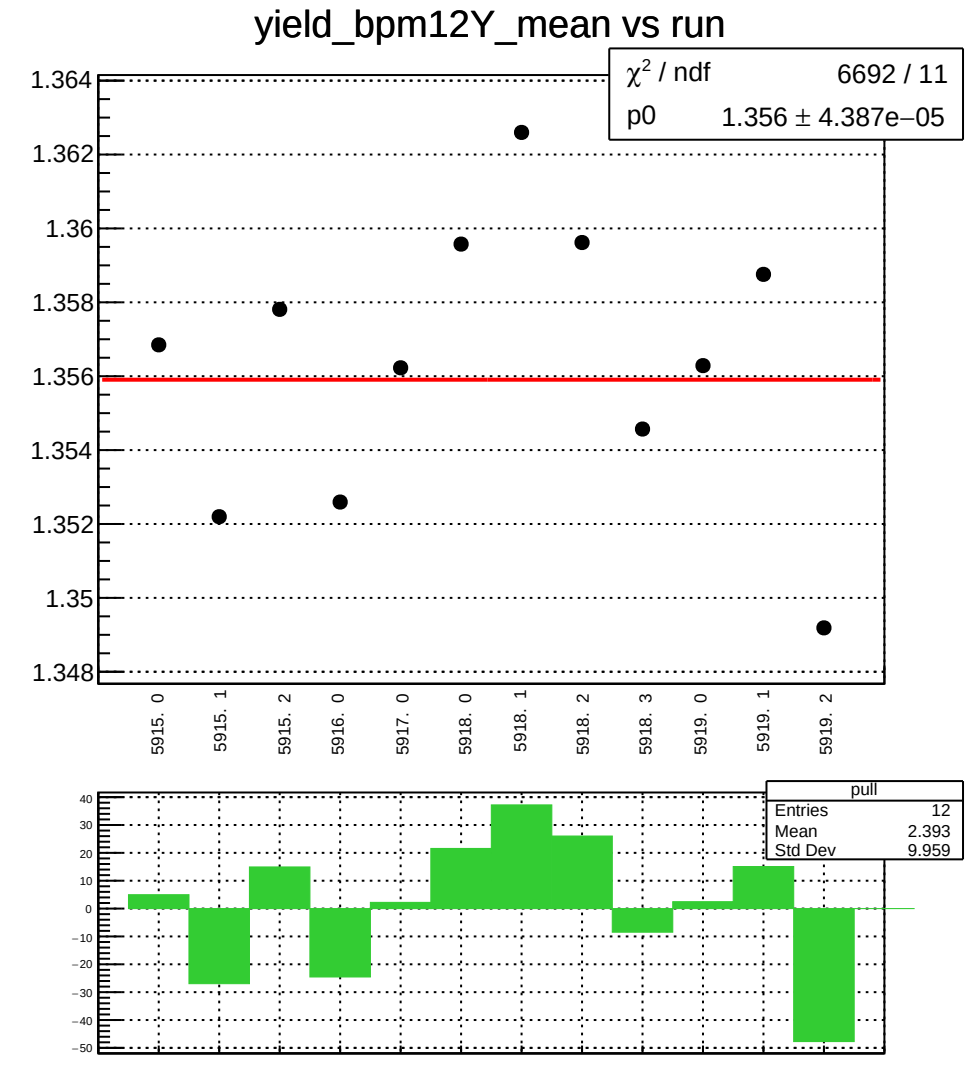

yield_bpm11Y_rms vs run
χ² / ndf 2984 / 11
p0 0.02427 ± 4.663e−05
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

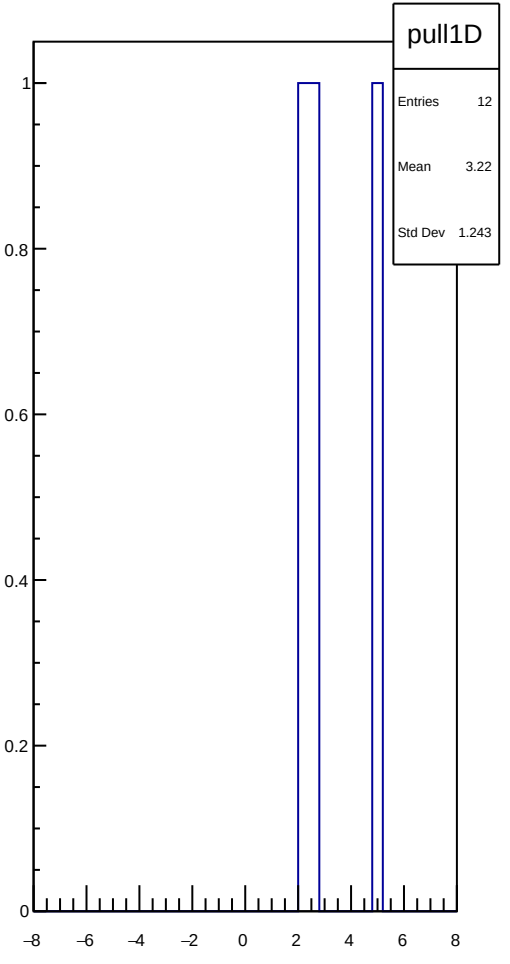

yield_bpm12X_mean vs run
χ² / ndf 3.183e+04 / 11
p0 −0.8588 ± 0.0001077
−0.75
−0.8
−0.85
−0.9
−0.95
−1
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

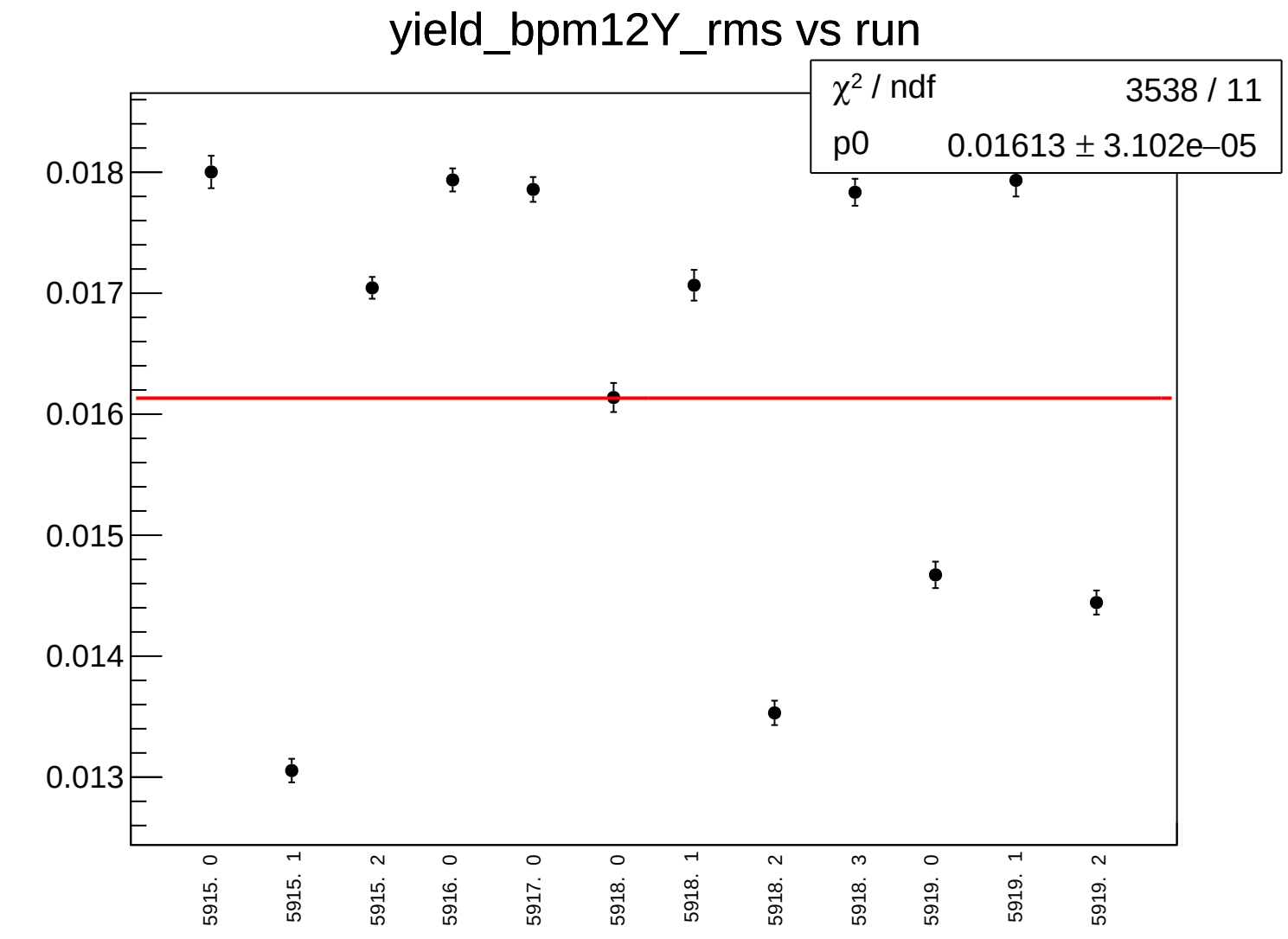

pull
Entries 12
Mean −27.39
Std Dev 34.12
80
60
40
20
0
−20
−40
−60
−80

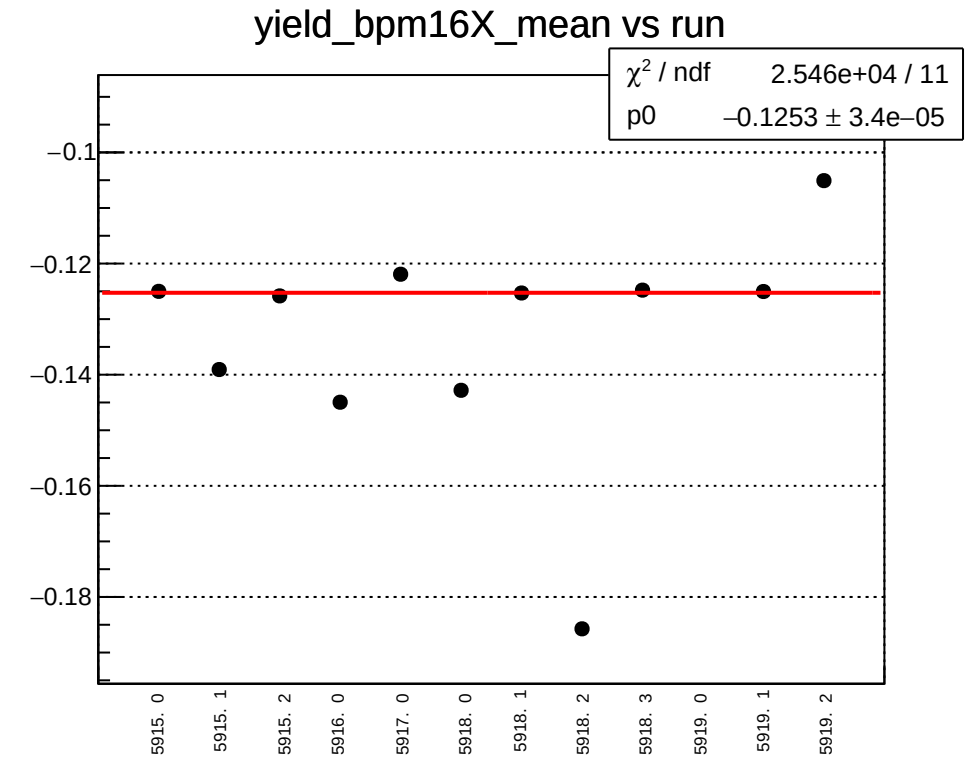

pull1D
Entries 12
Mean 6.792
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

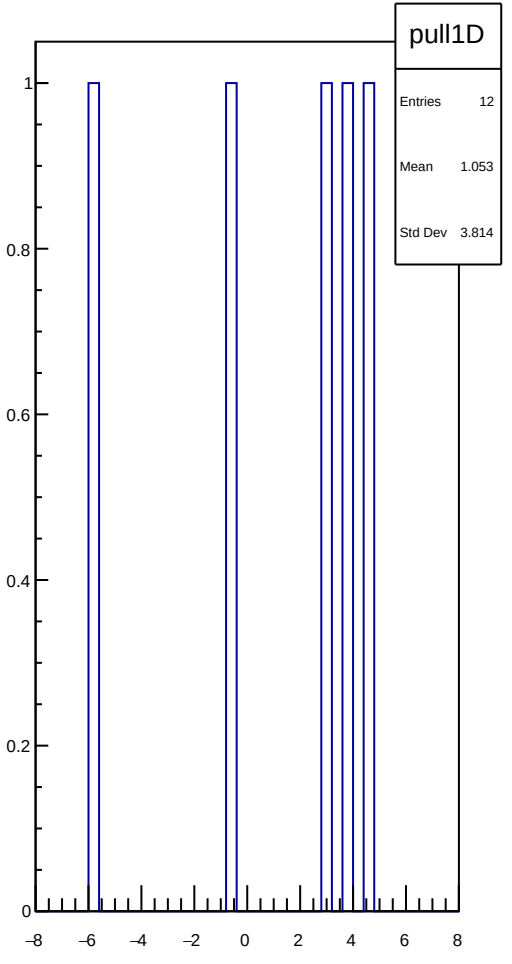

yield_bpm12X_rms vs run
χ² / ndf 7.65e+04 / 11
p0 0.03384 ± 7.614e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

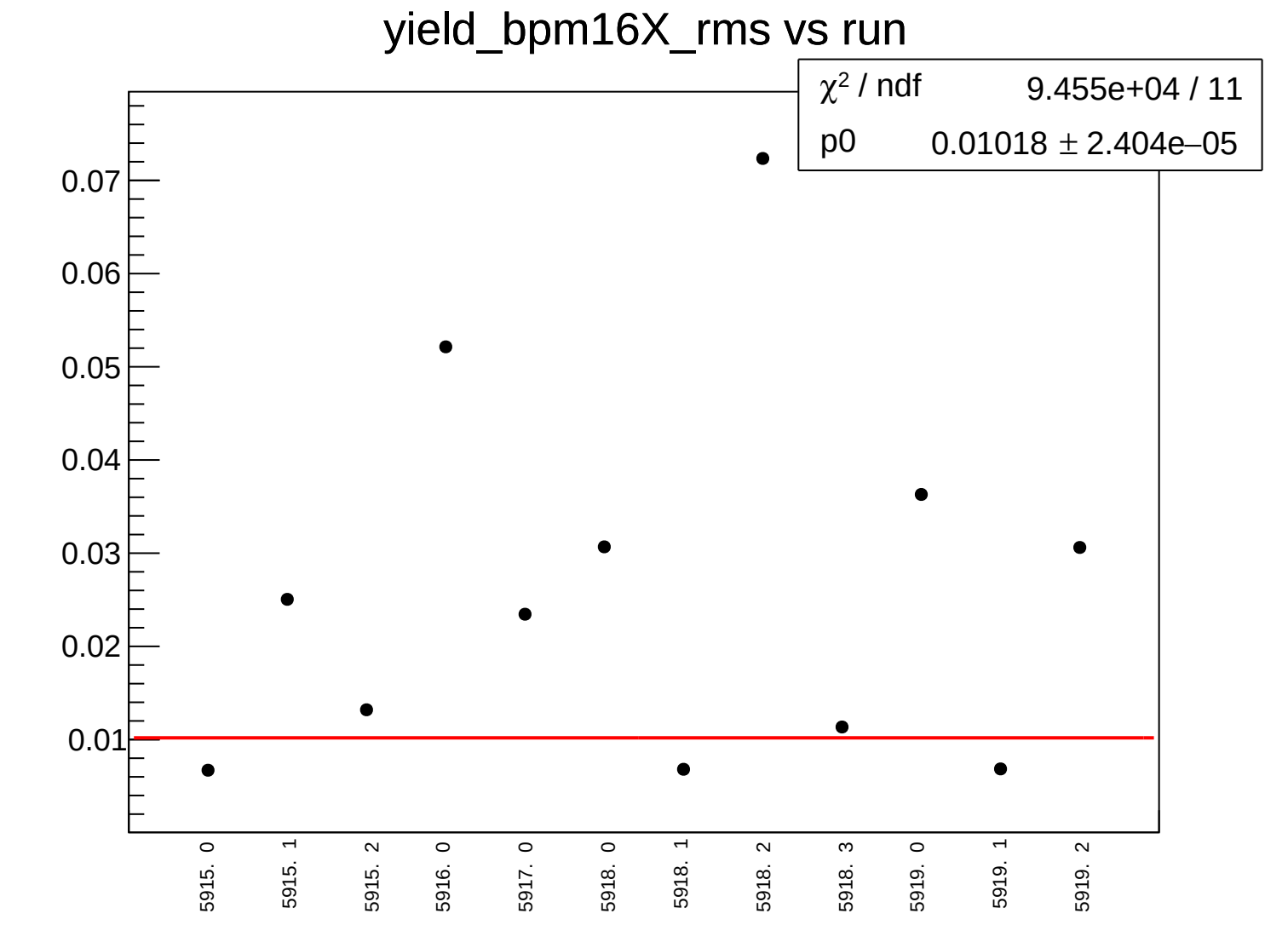

yield_bpm12Y_mean vs run
χ² / ndf 6692 / 11
p0 1.356 ± 4.387e−05
1.364
1.362
1.36
1.358
1.356
1.354
1.352
1.35
1.348
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 2.393
Std Dev 9.959
40
30
20
10
0
−10
−20
−30
−40
−50

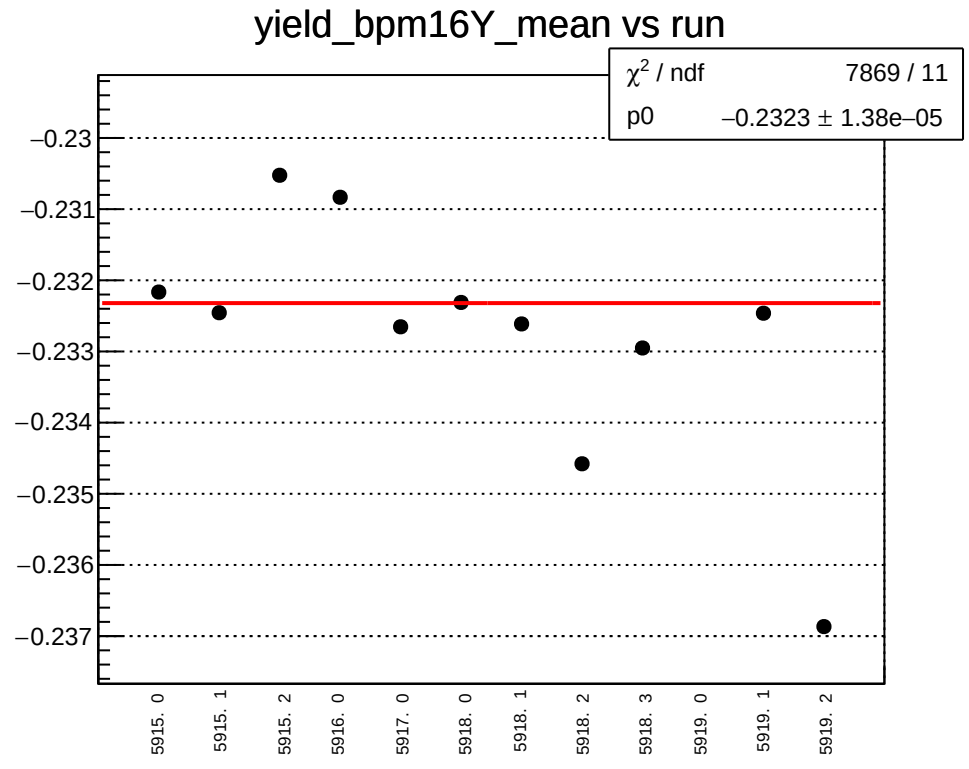

pull1D
Entries 12
Mean 3.22
Std Dev 1.243
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

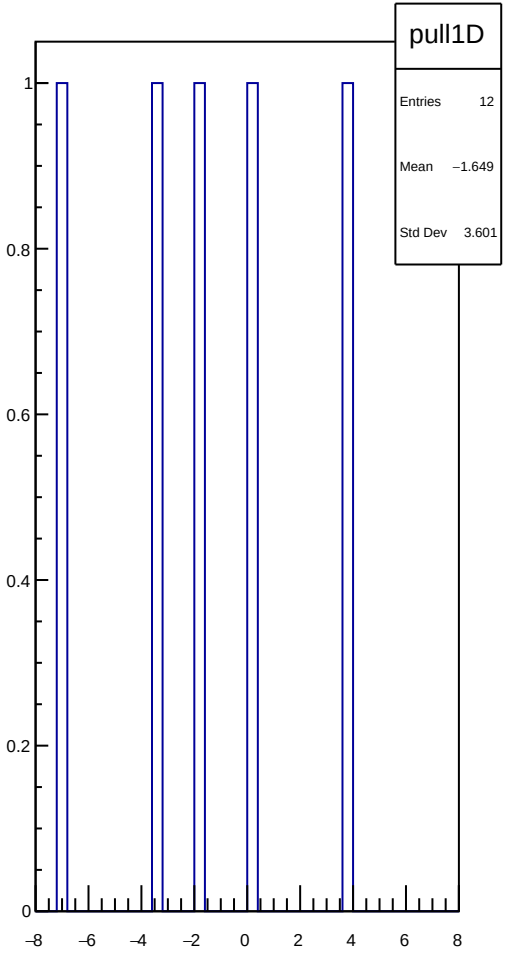

yield_bpm12Y_rms vs run
χ² / ndf 3538 / 11
p0 0.01613 ± 3.102e−05
0.018
0.017
0.016
0.015
0.014
0.013
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

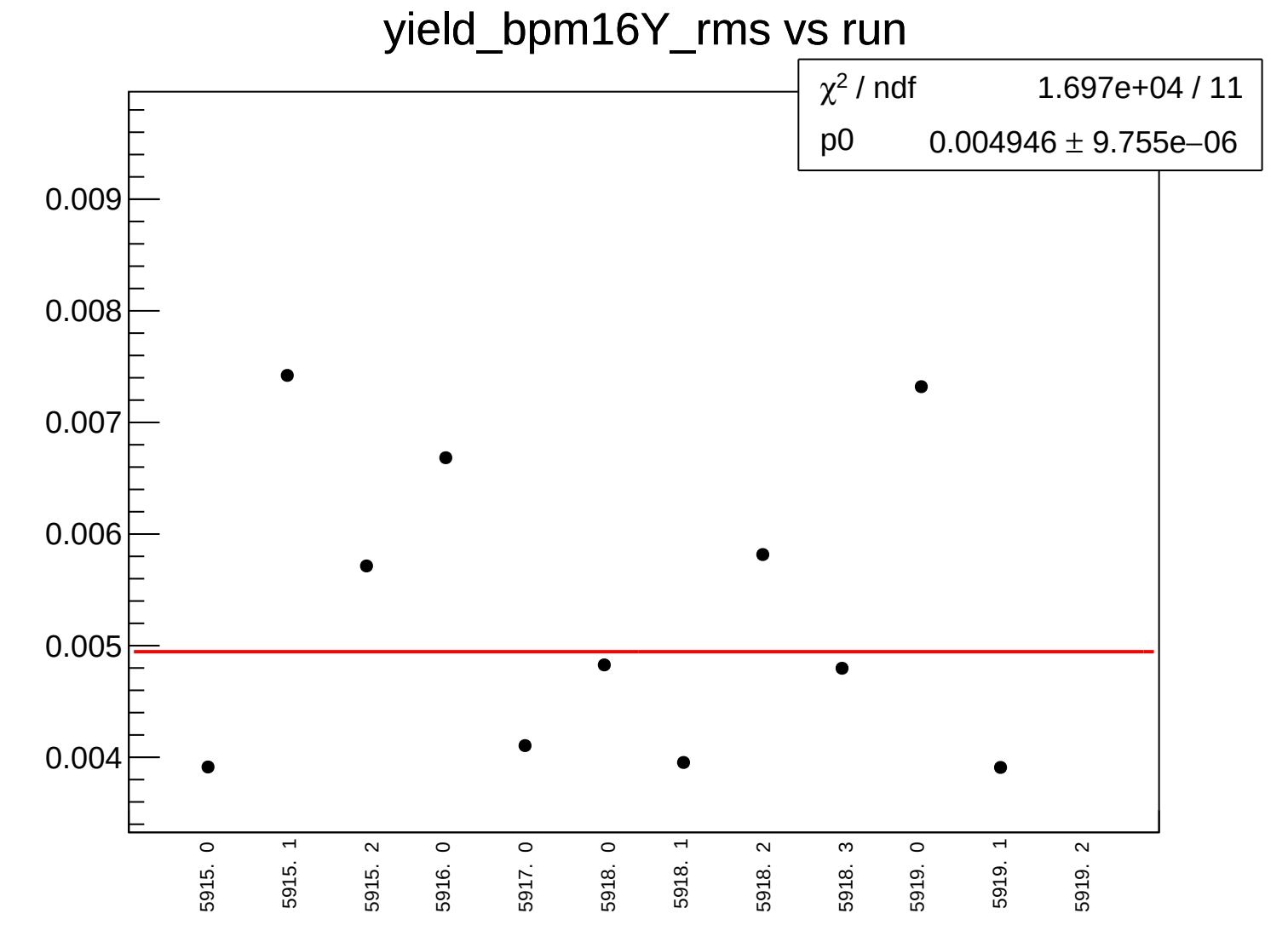

yield_bpm16X_mean vs run
χ² / ndf 2.546e+04 / 11
p0 −0.1253 ± 3.4e−05
−0.1
−0.12
−0.14
−0.16
−0.18
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −7.39
Std Dev 14.24
80
60
40
20
0
−20
−40
−60
−80

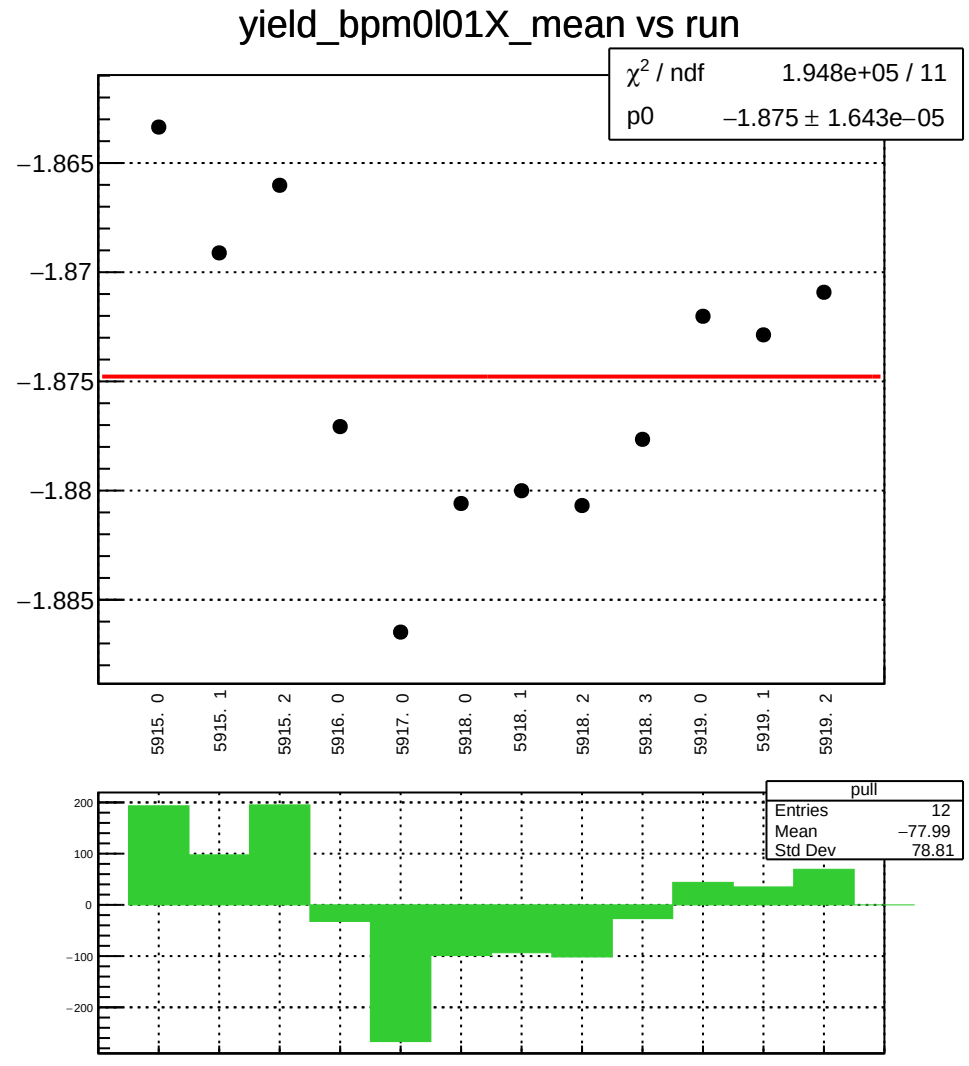

pull1D
Entries 12
Mean 1.053
Std Dev 3.814
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

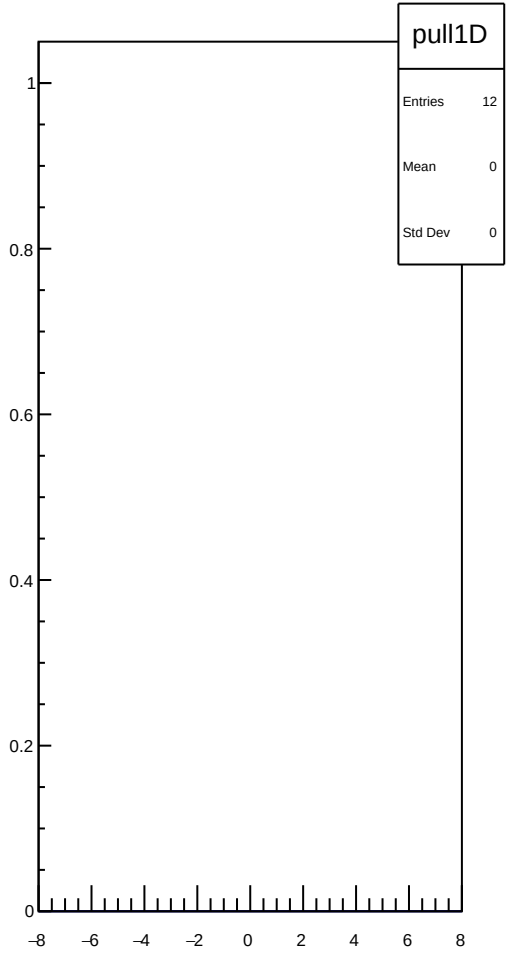

yield_bpm16X_rms vs run
χ² / ndf 9.455e+04 / 11
p0 0.01018 ± 2.404e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

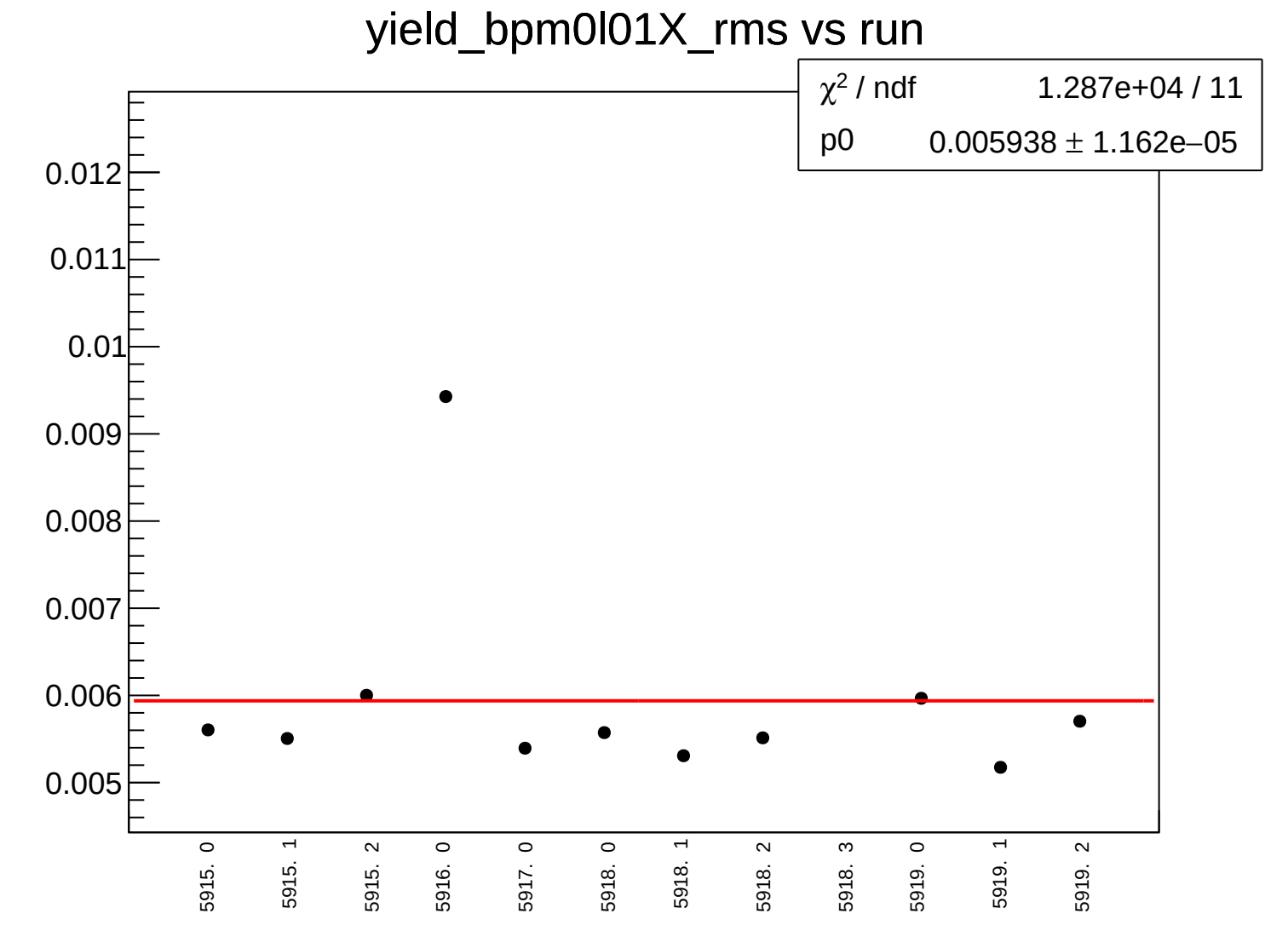

yield_bpm16Y_mean vs run
χ² / ndf 7869 / 11
p0 −0.2323 ± 1.38e−05
−0.23
−0.231
−0.232
−0.233
−0.234
−0.235
−0.236
−0.237
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 35.3
Std Dev 28.67
40
20
0
−20
−40

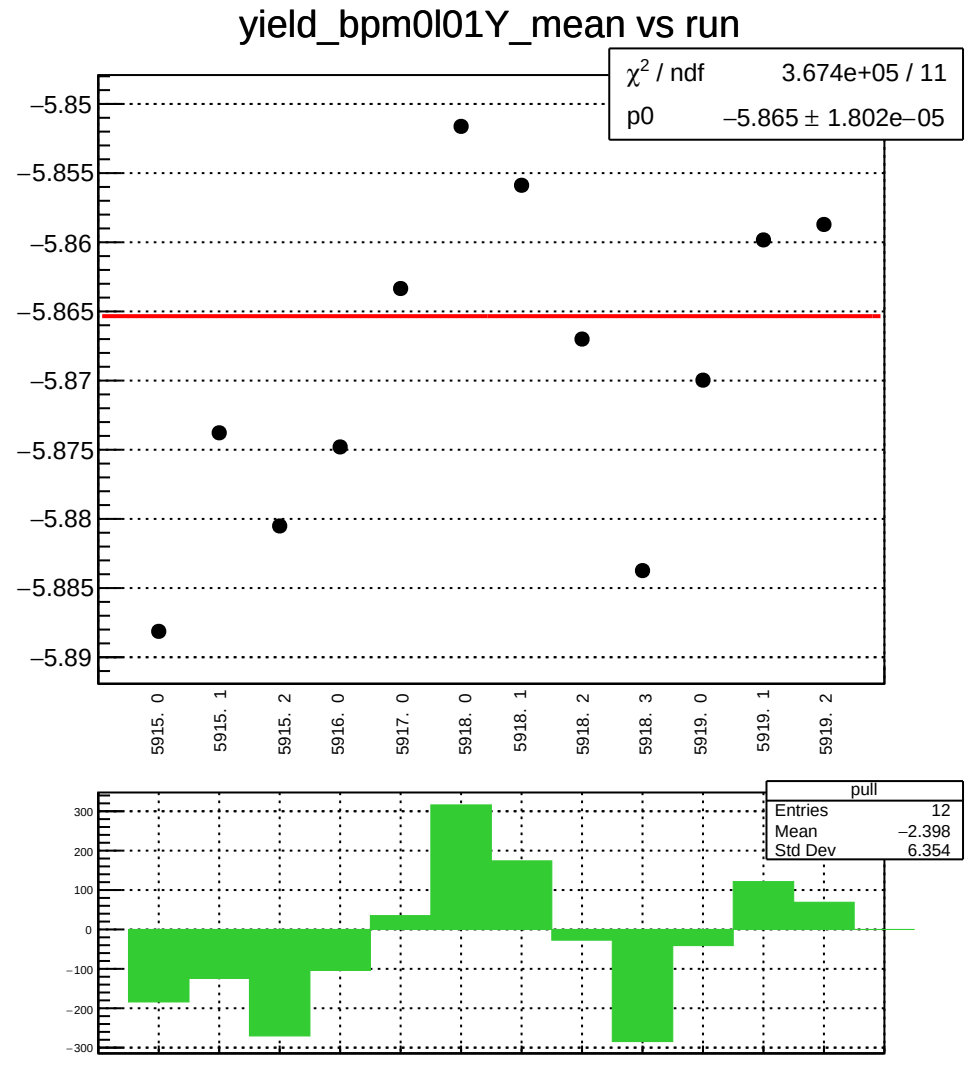

pull1D
Entries 12
Mean −1.649
Std Dev 3.601
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

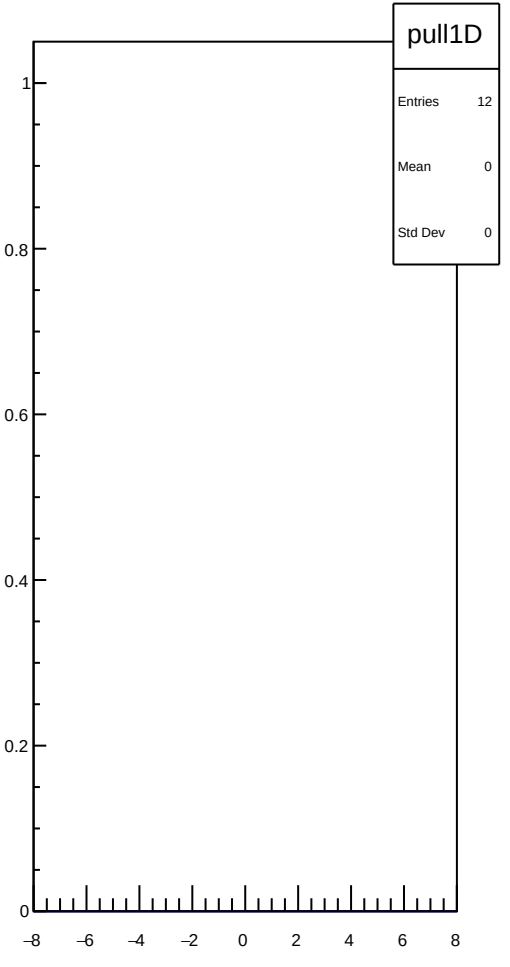

yield_bpm16Y_rms vs run
χ² / ndf 1.697e+04 / 11
p0 0.004946 ± 9.755e−06
0.009
0.008
0.007
0.006
0.005
0.004
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

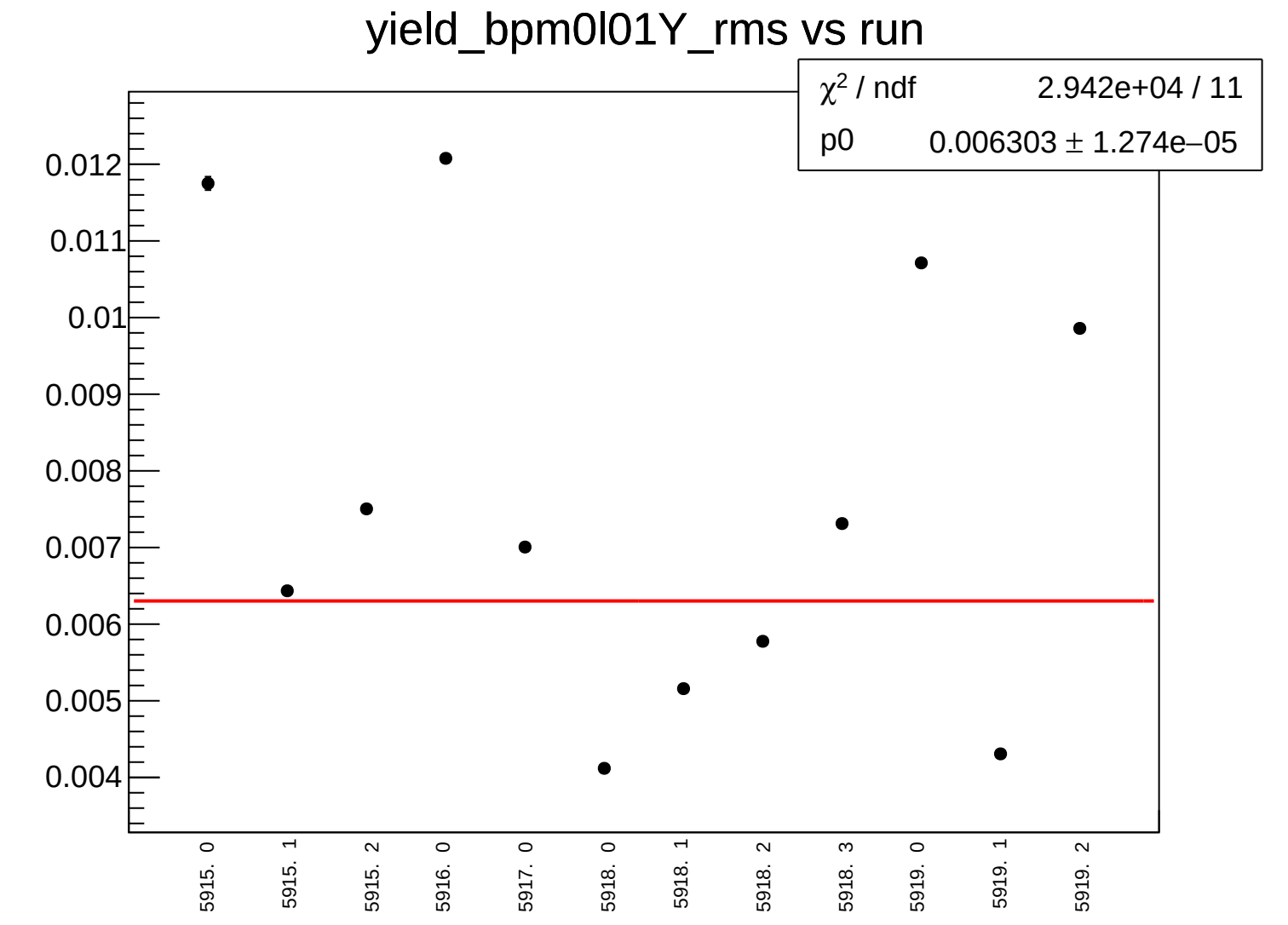

yield_bpm0l01X_mean vs run
χ² / ndf 1.948e+05 / 11
p0 −1.875 ± 1.643e−05
−1.865
−1.87
−1.875
−1.88
−1.885
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −77.99
Std Dev 78.81
200
100
0
−100
−200

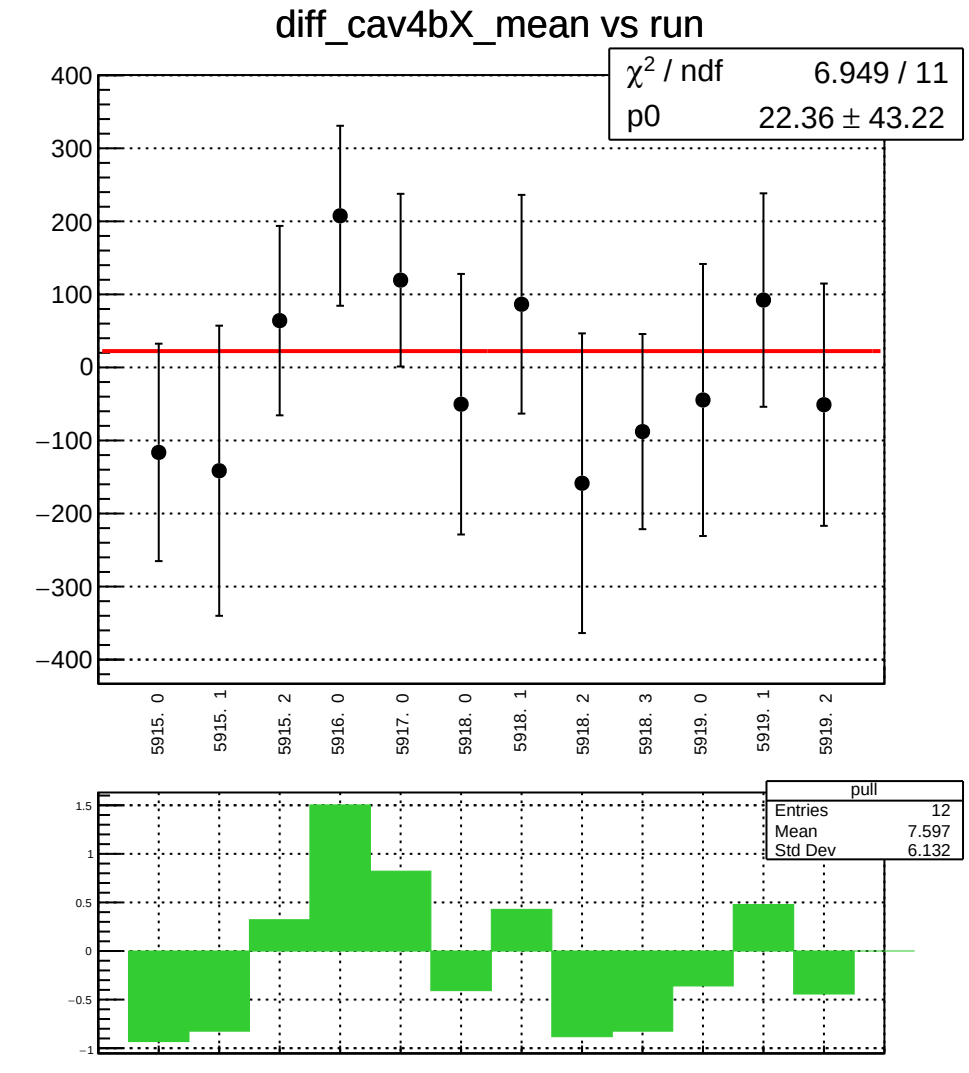

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

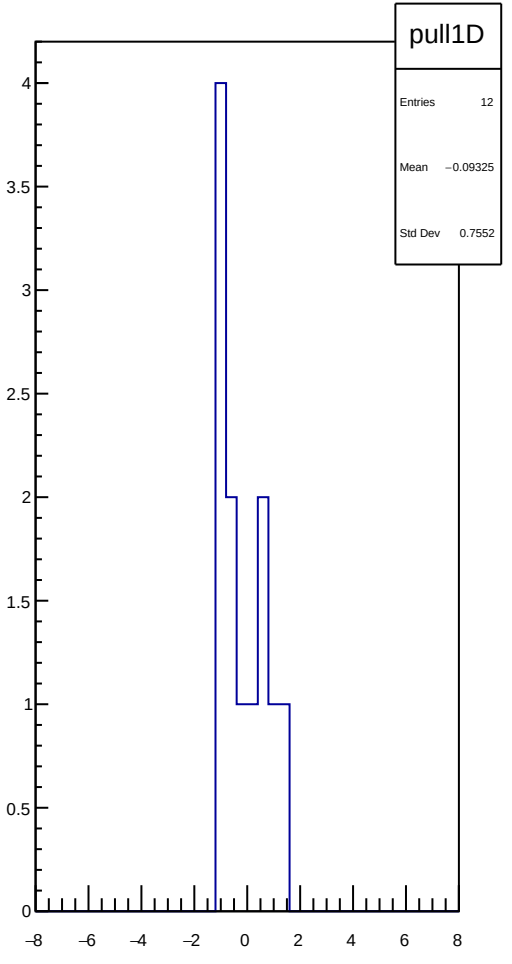

yield_bpm0l01X_rms vs run
χ² / ndf 1.287e+04 / 11
p0 0.005938 ± 1.162e−05
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

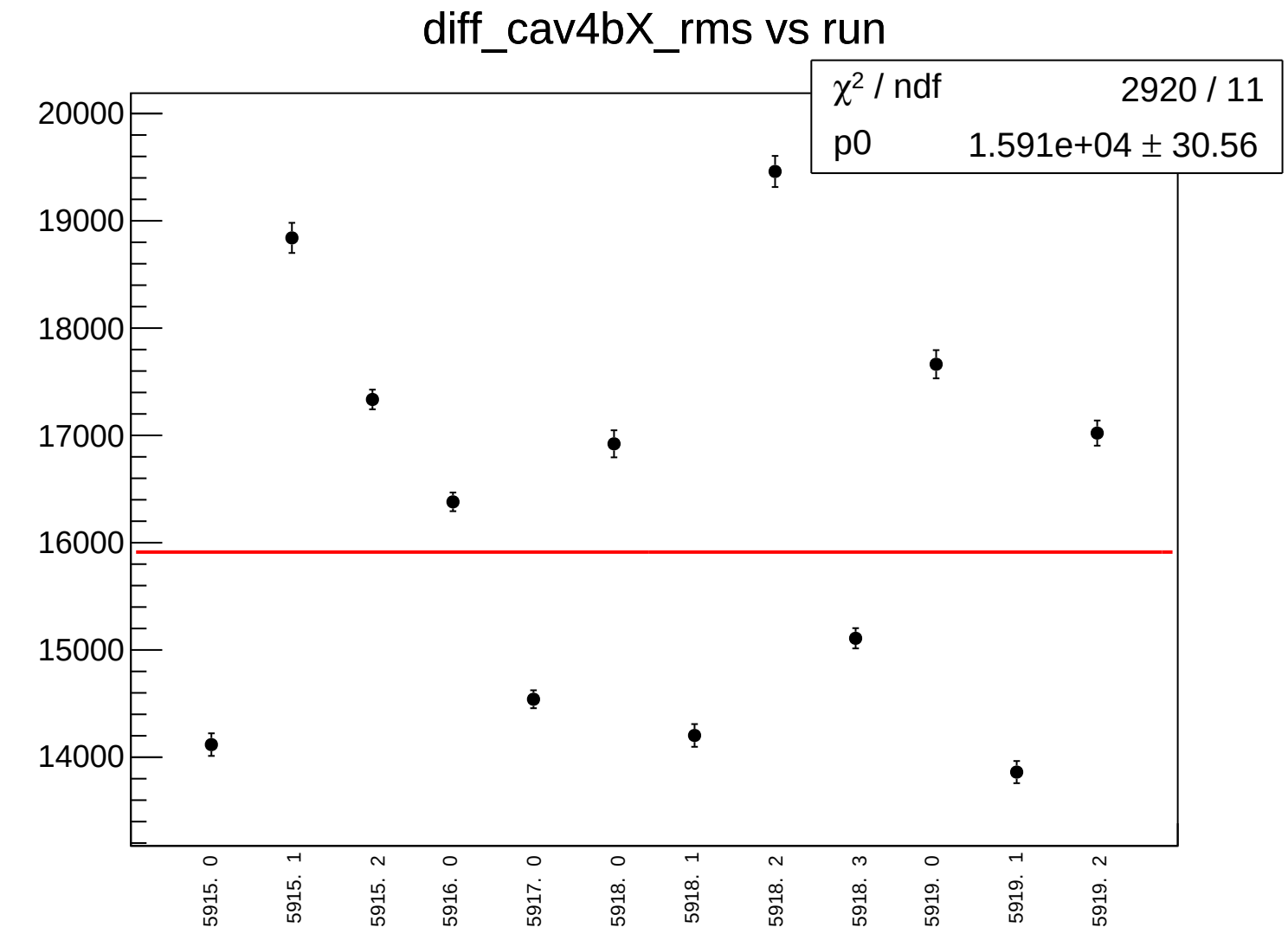

yield_bpm0l01Y_mean vs run
χ² / ndf 3.674e+05 / 11
p0 −5.865 ± 1.802e−05
−5.85
−5.855
−5.86
−5.865
−5.87
−5.875
−5.88
−5.885
−5.89
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −2.398
Std Dev 6.354
300
200
100
0
−100
−200
−300

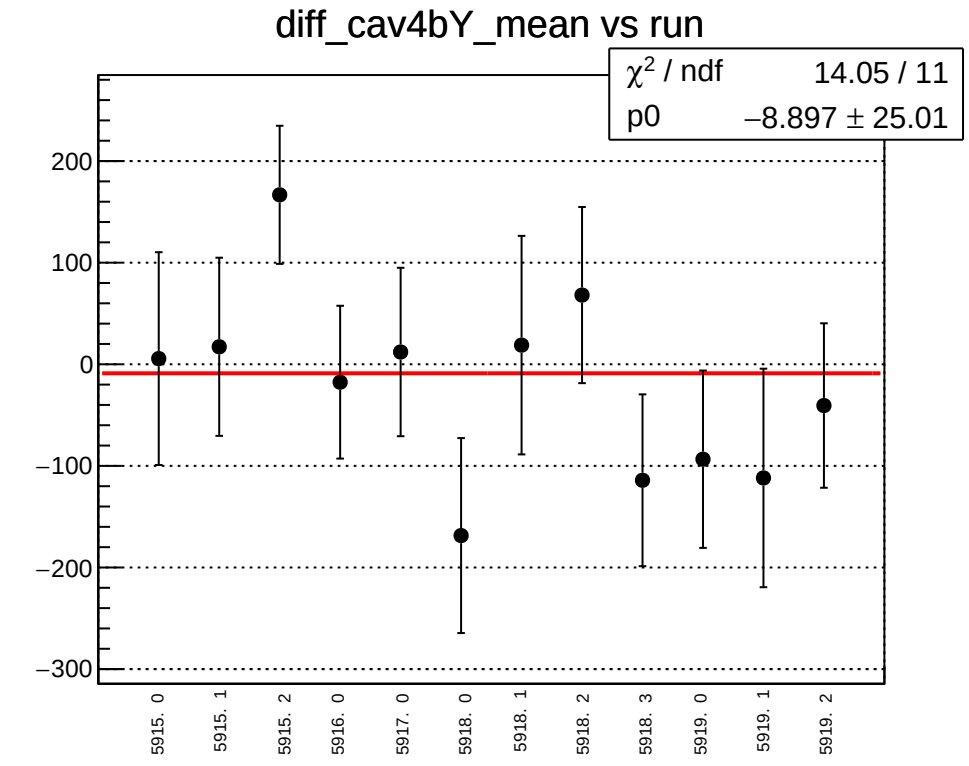

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

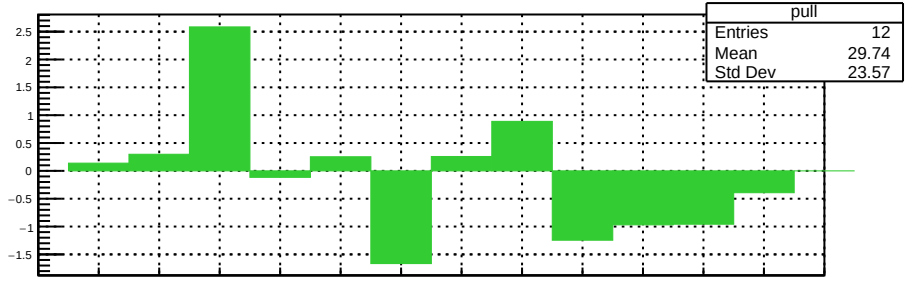

yield_bpm0l01Y_rms vs run
χ² / ndf 2.942e+04 / 11
p0 0.006303 ± 1.274e−05
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

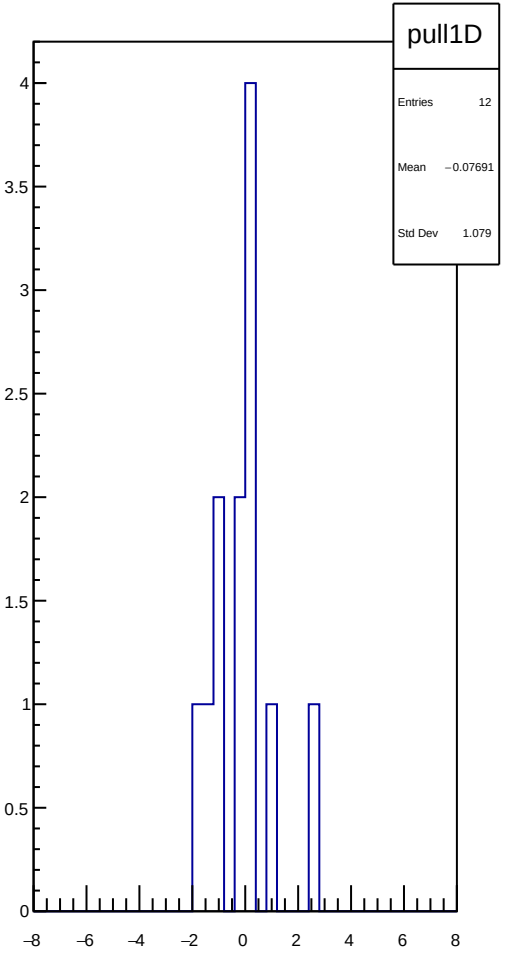

diff_cav4bX_mean vs run
χ² / ndf 6.949 / 11
p0 22.36 ± 43.22
400
300
200
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.597
Std Dev 6.132
1.5
1
0.5
0
−0.5
−1

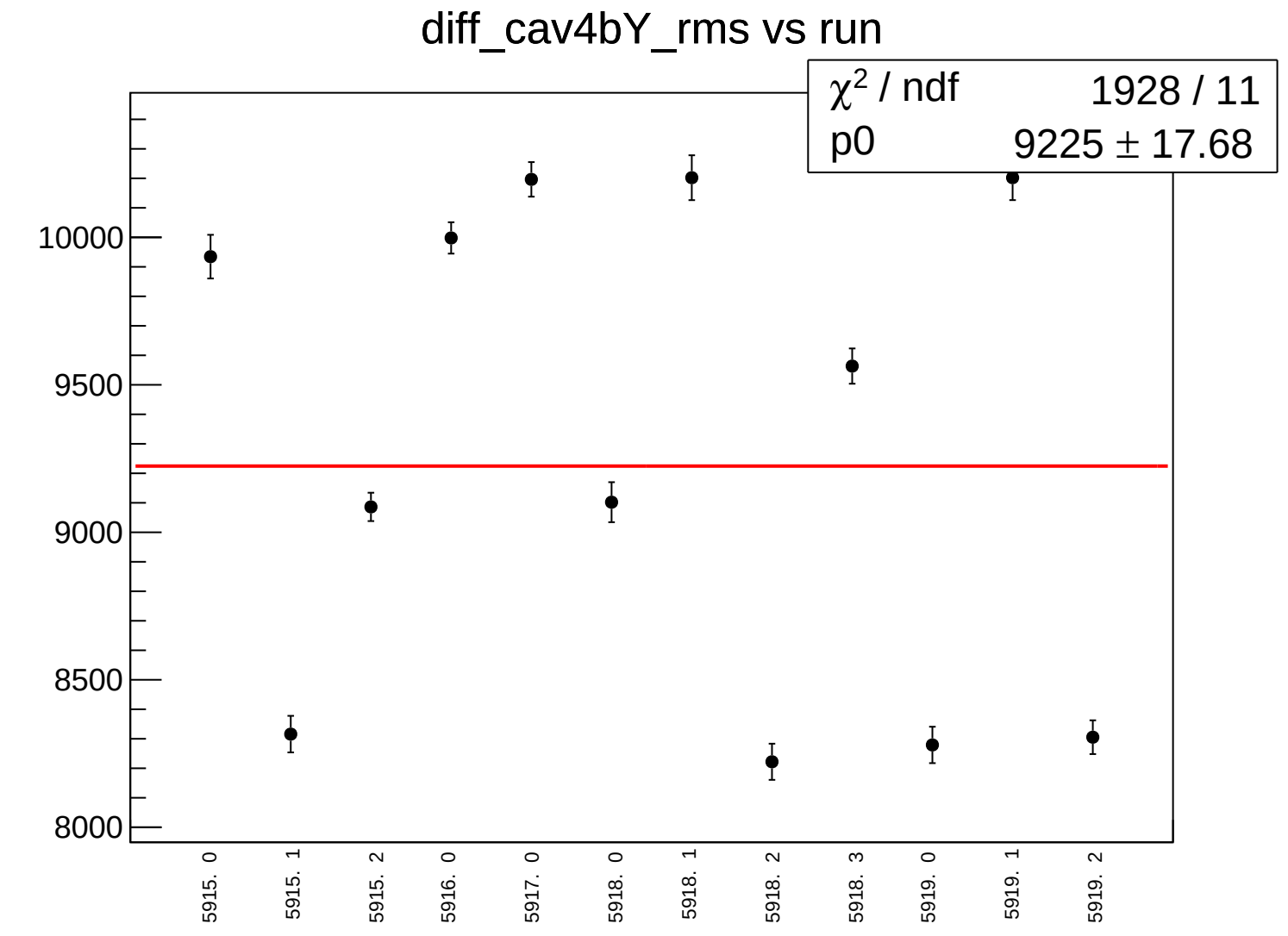

pull1D
Entries 12
Mean −0.09325
Std Dev 0.7552
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

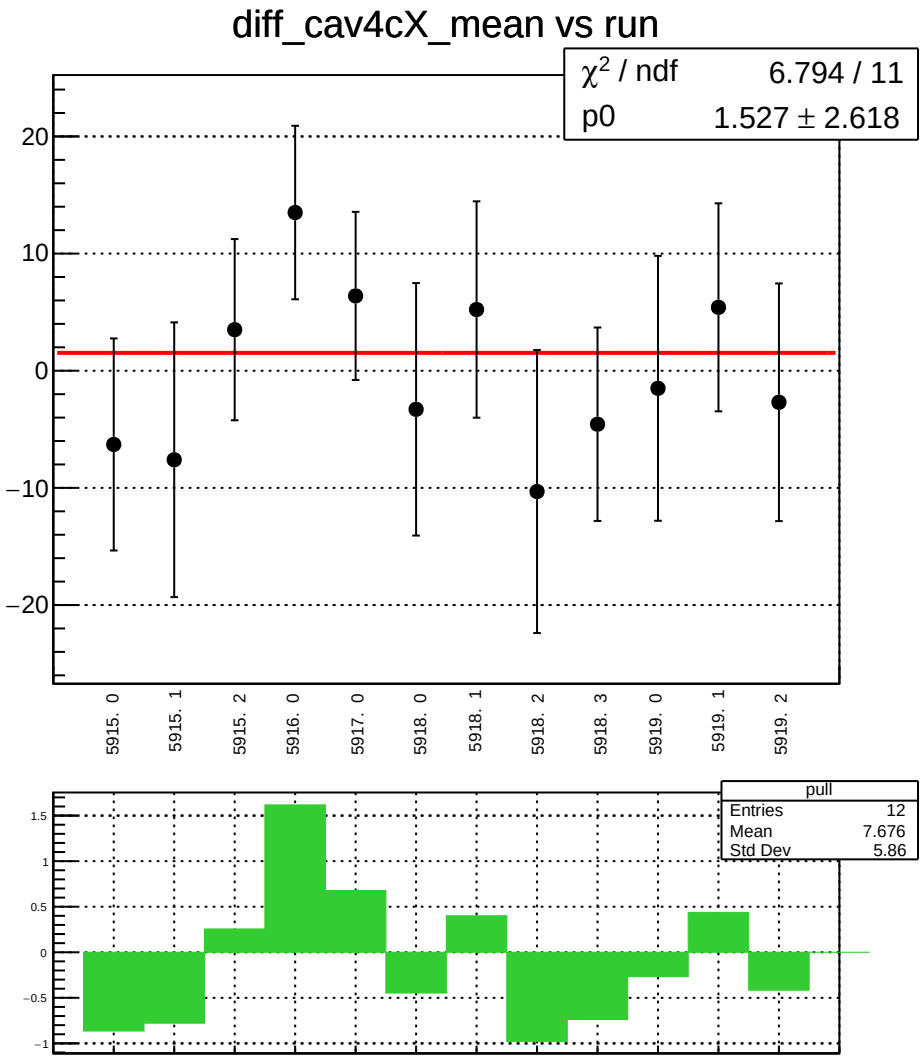

diff_cav4bX_rms vs run
χ² / ndf 2920 / 11
p0 1.591e+04 ± 30.56
20000
19000
18000
17000
16000
15000
14000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

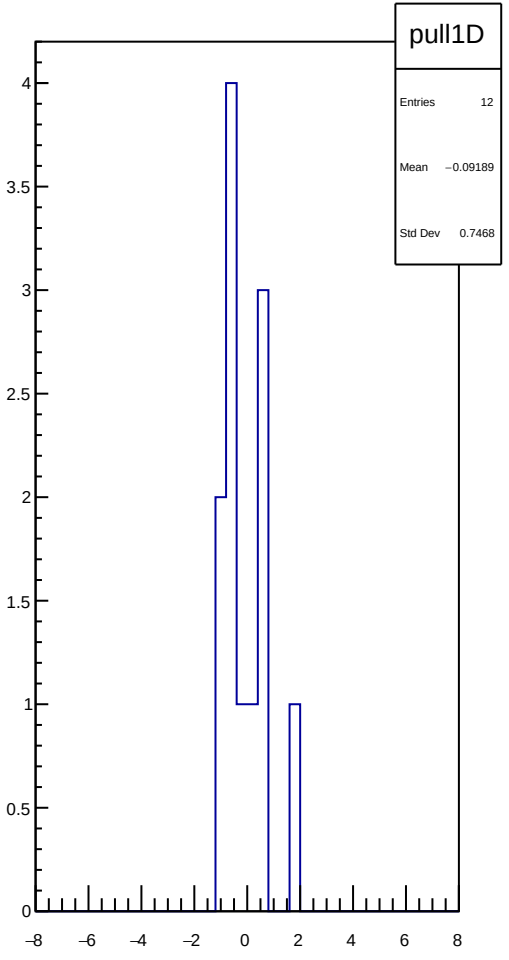

diff_cav4bY_mean vs run
χ² / ndf 14.05 / 11
p0 −8.897 ± 25.01
200
100
0
−100
−200
−300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

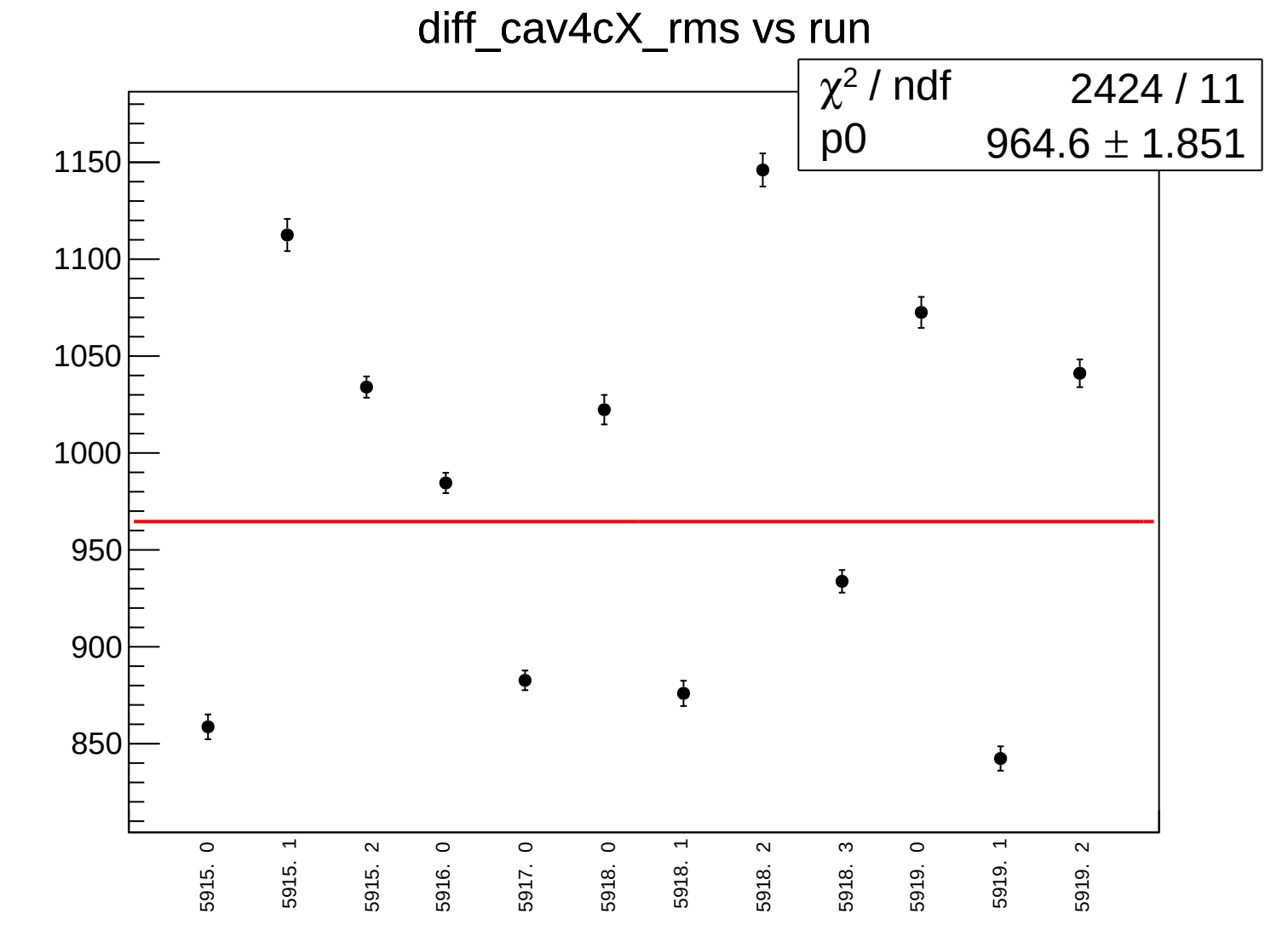

pull
Entries 12
Mean 29.74
Std Dev 23.57
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

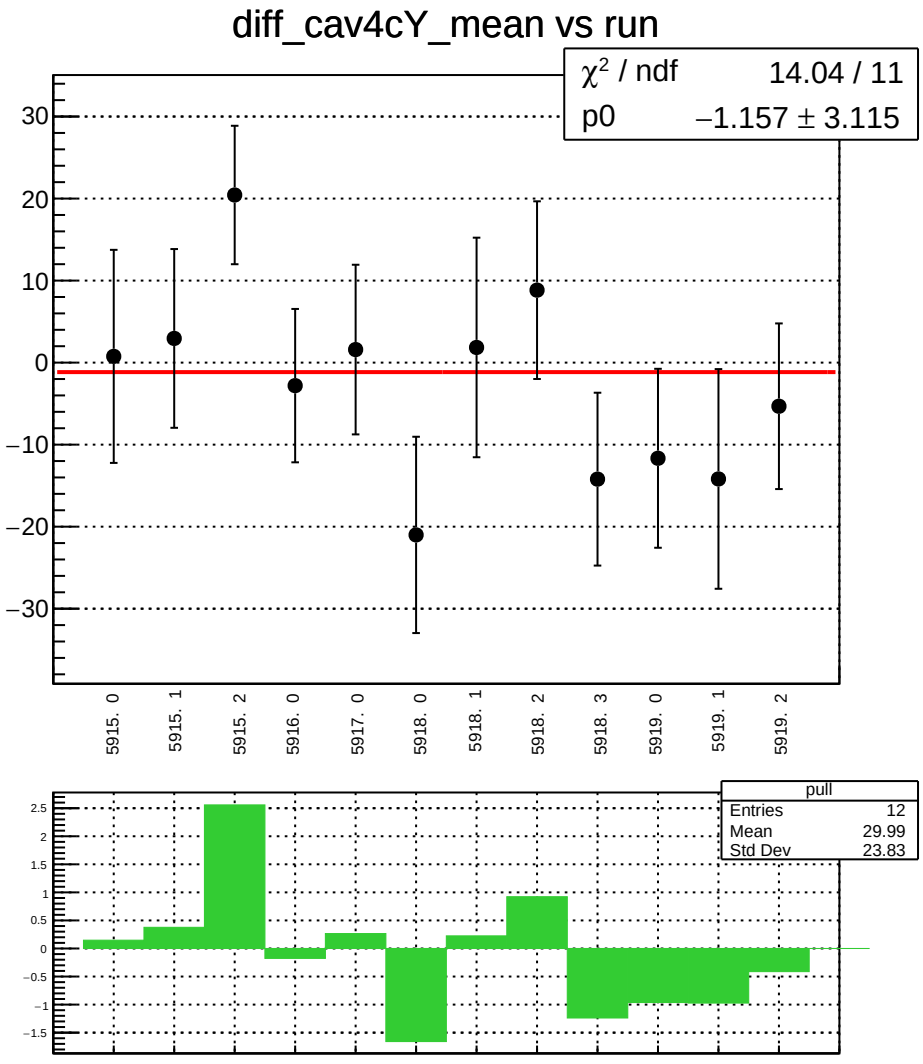

pull1D
Entries 12
Mean −0.07691
Std Dev 1.079
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

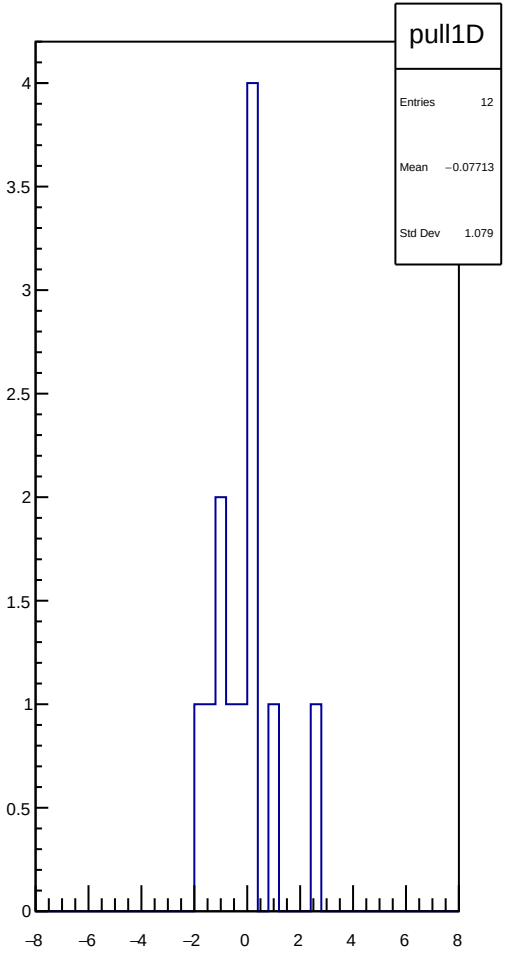

diff_cav4bY_rms vs run
χ² / ndf 1928 / 11
p0 9225 ± 17.68
10000
9500
9000
8500
8000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

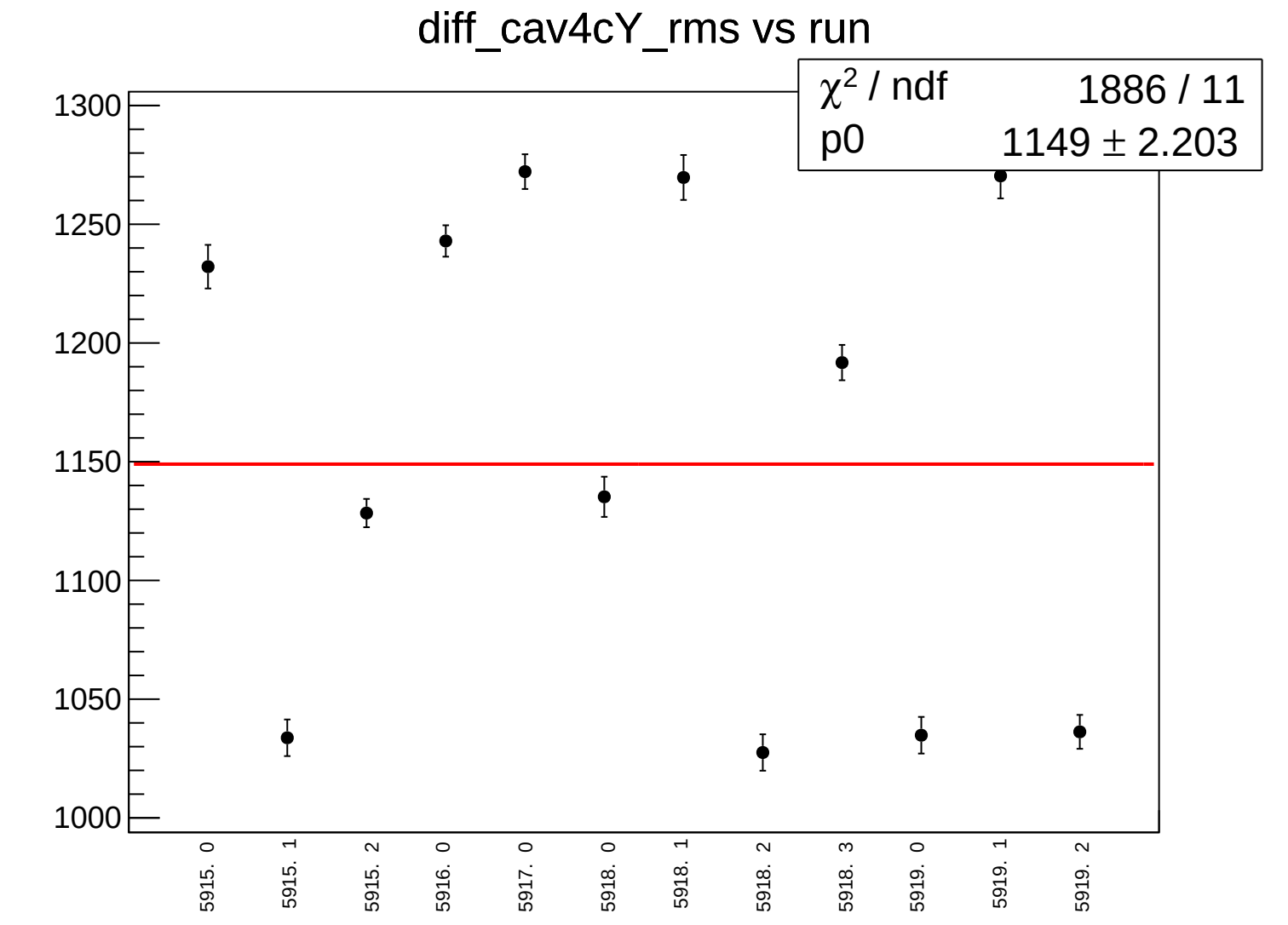

diff_cav4cX_mean vs run
χ² / ndf 6.794 / 11
p0 1.527 ± 2.618
20
10
0
−10
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.676
Std Dev 5.86
1.5
1
0.5
0
−0.5
−1

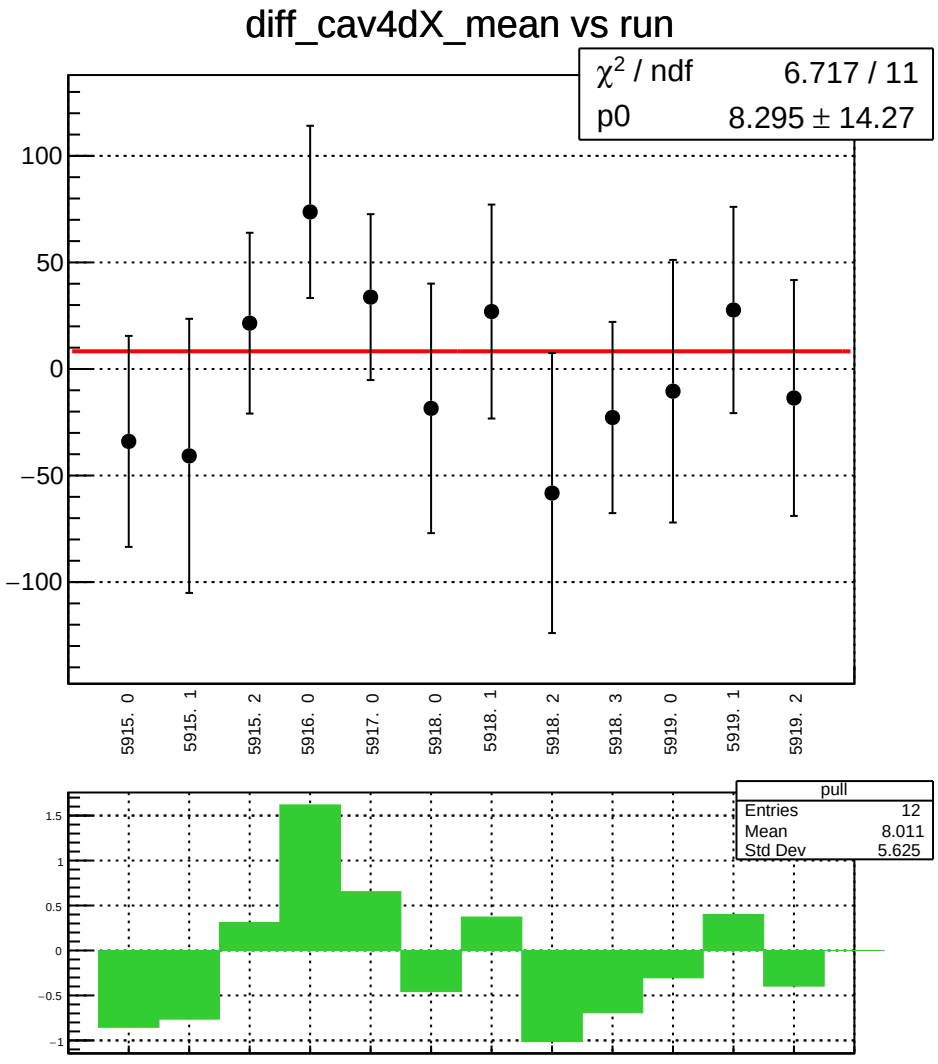

pull1D
Entries 12
Mean −0.09189
Std Dev 0.7468
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

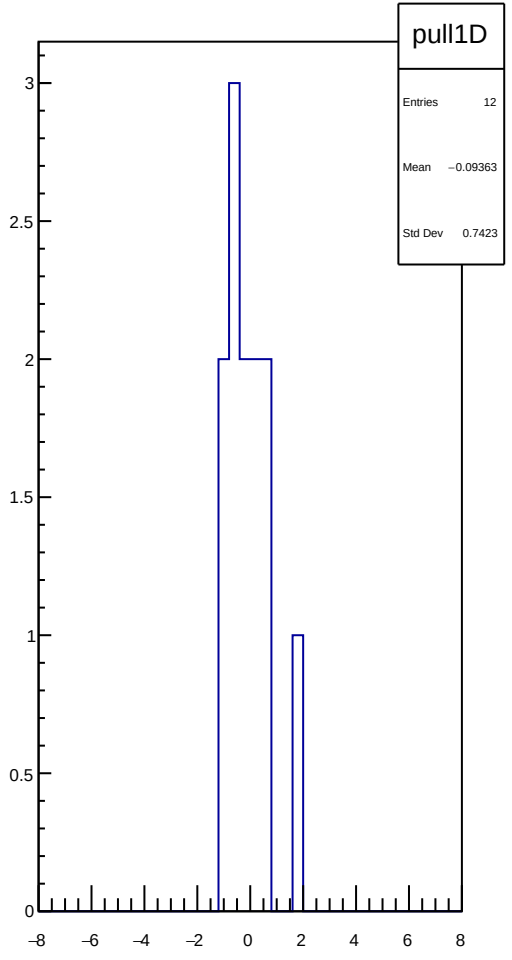

diff_cav4cX_rms vs run
χ² / ndf 2424 / 11
p0 964.6 ± 1.851
1150
1100
1050
1000
950
900
850
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

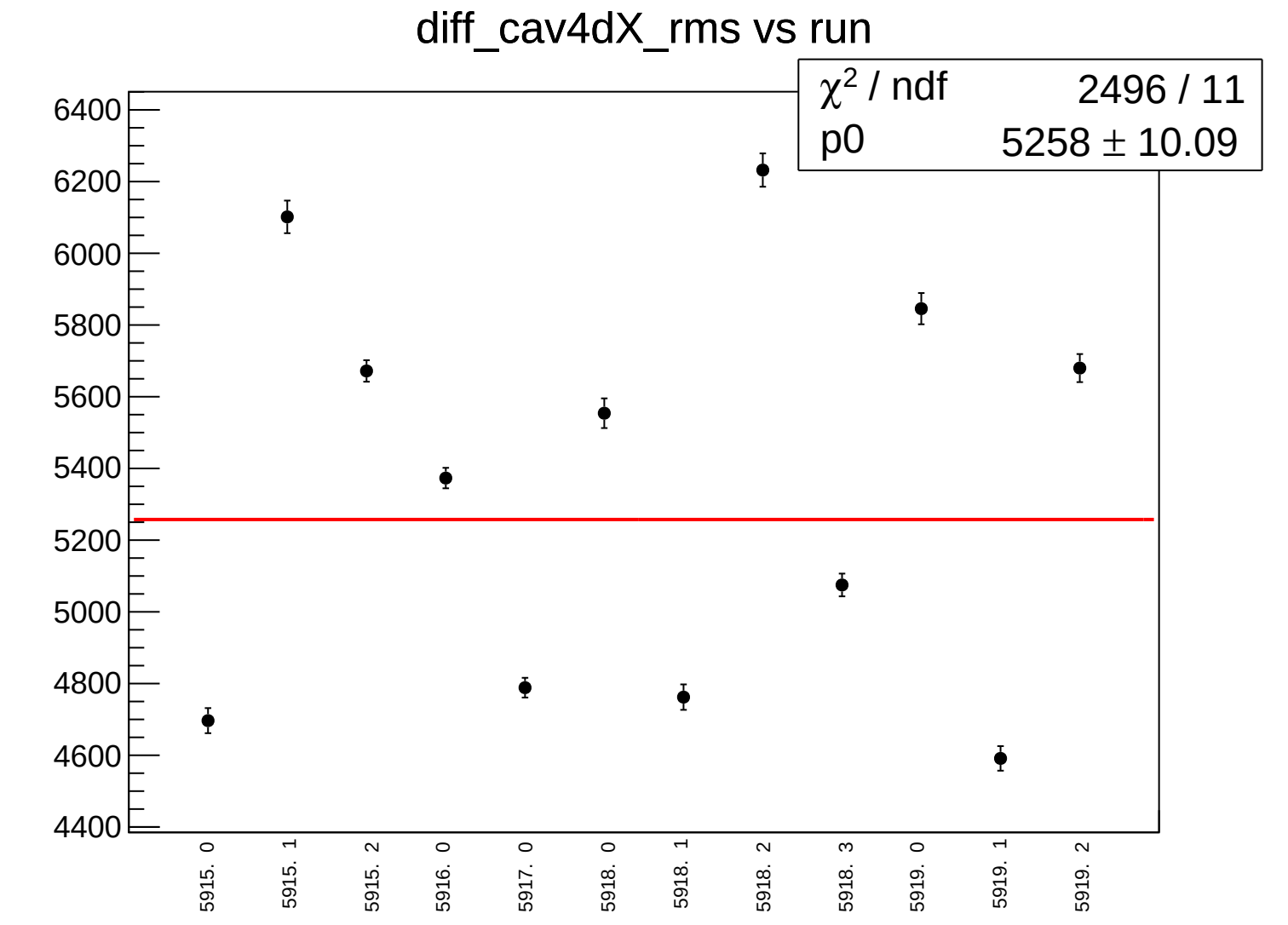

diff_cav4cY_mean vs run
χ² / ndf 14.04 / 11
p0 −1.157 ± 3.115
30
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 29.99
Std Dev 23.83
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

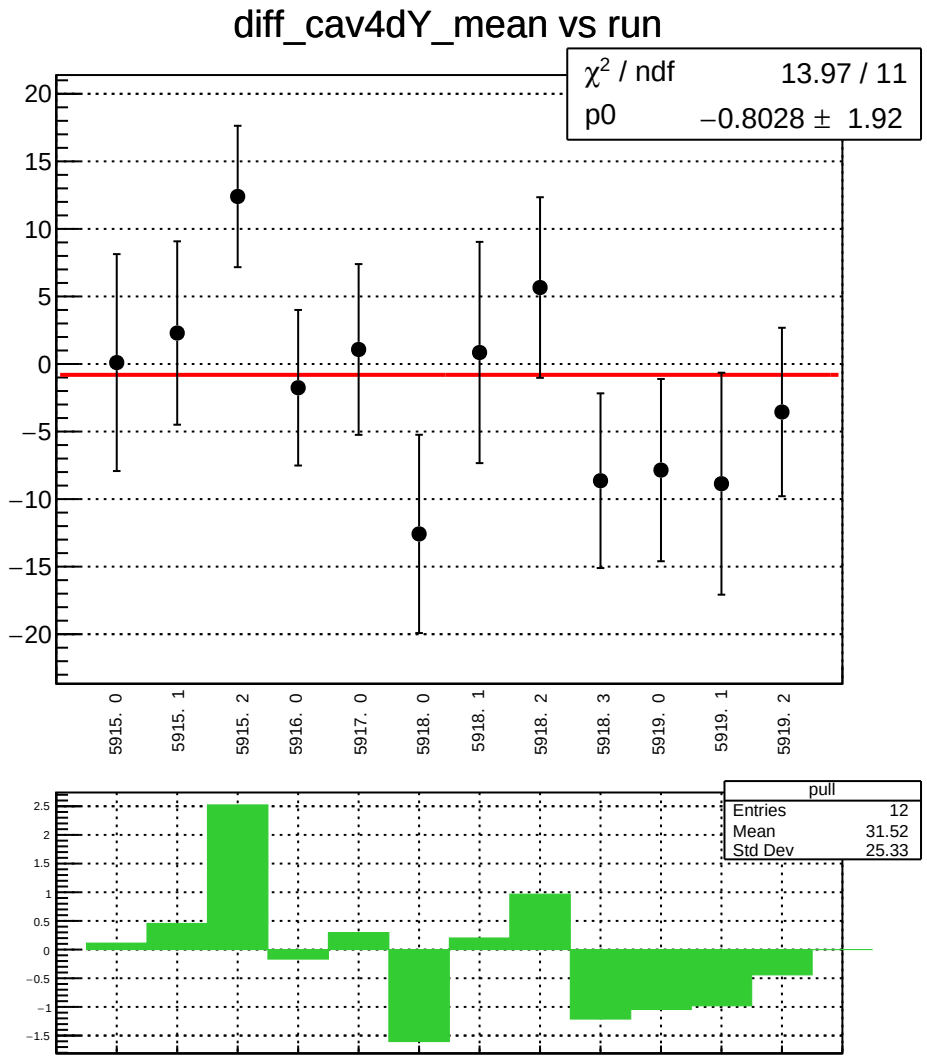

pull1D
Entries 12
Mean −0.07713
Std Dev 1.079
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

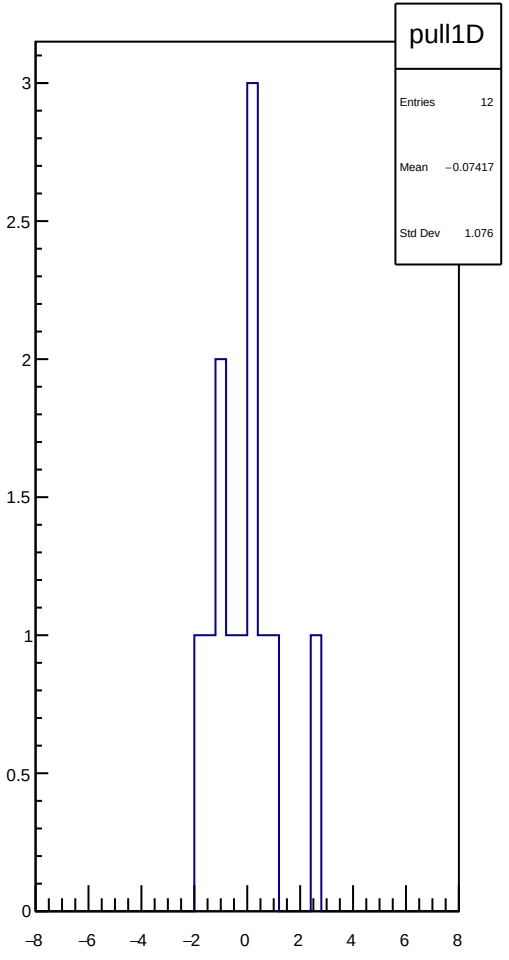

diff_cav4cY_rms vs run
χ² / ndf 1886 / 11
p0 1149 ± 2.203
1300
1250
1200
1150
1100
1050
1000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

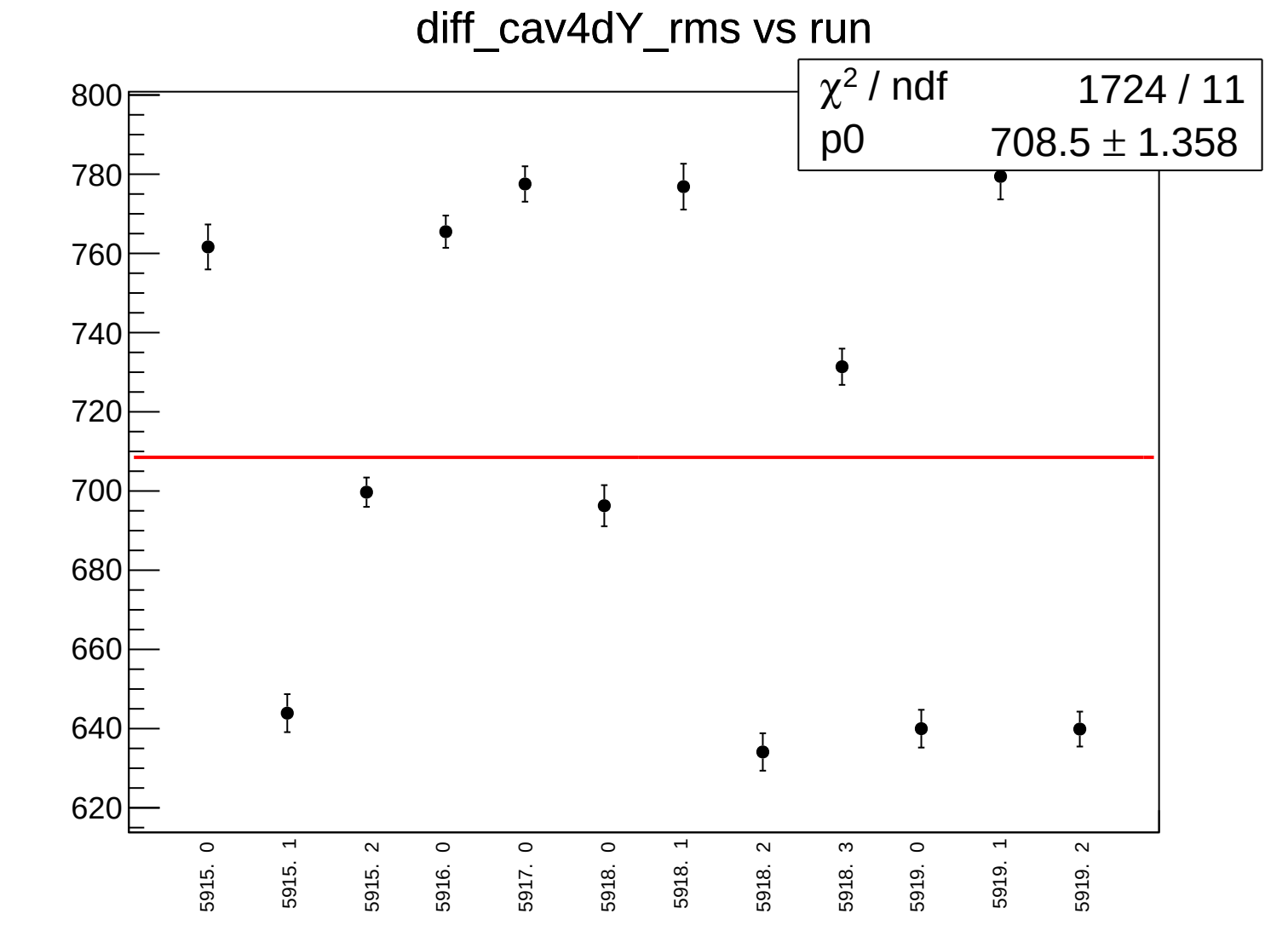

diff_cav4dX_mean vs run
χ² / ndf 6.717 / 11
p0 8.295 ± 14.27
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.011
Std Dev 5.625
1.5
1
0.5
0
−0.5
−1

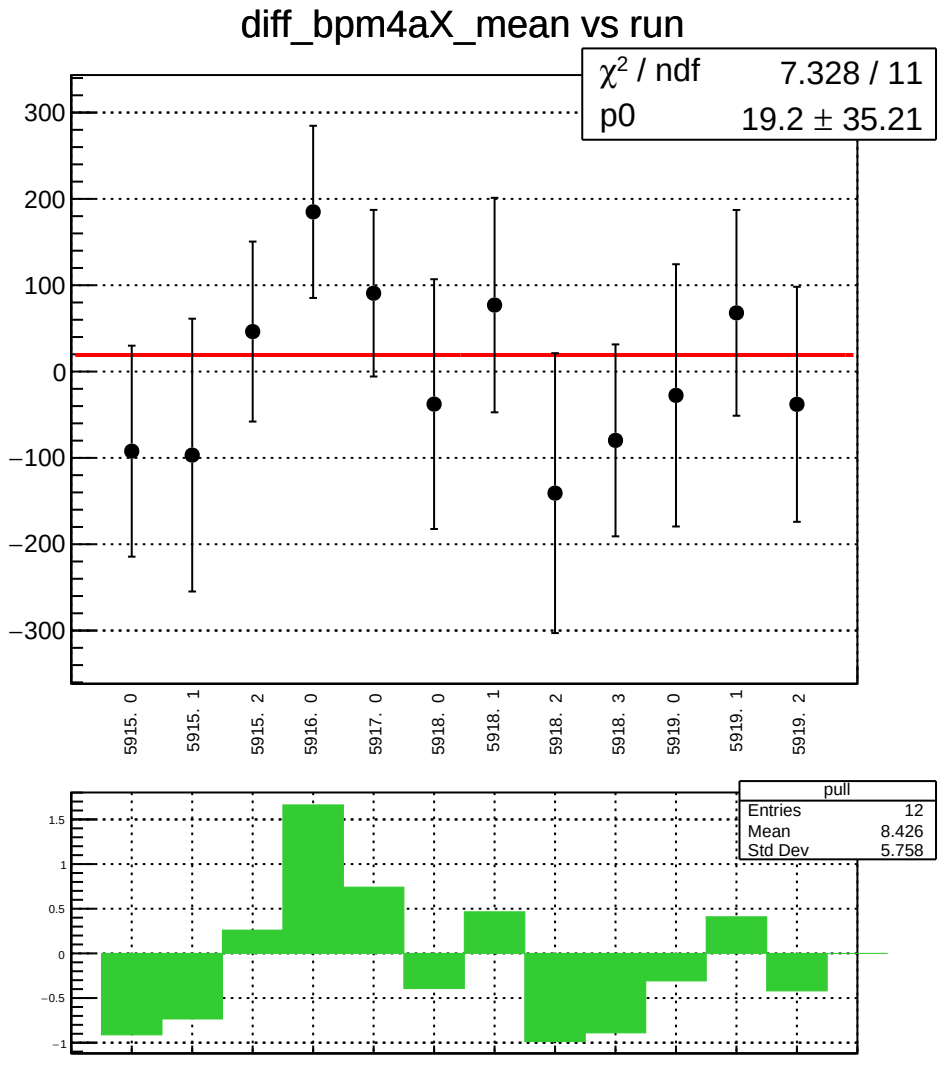

pull1D
Entries 12
Mean −0.09363
Std Dev 0.7423
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

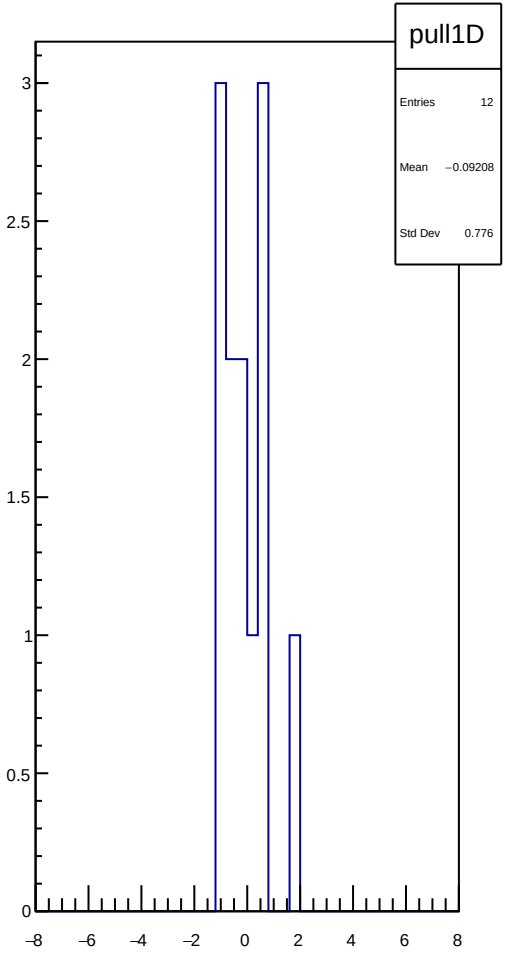

diff_cav4dX_rms vs run
χ² / ndf 2496 / 11
p0 5258 ± 10.09
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

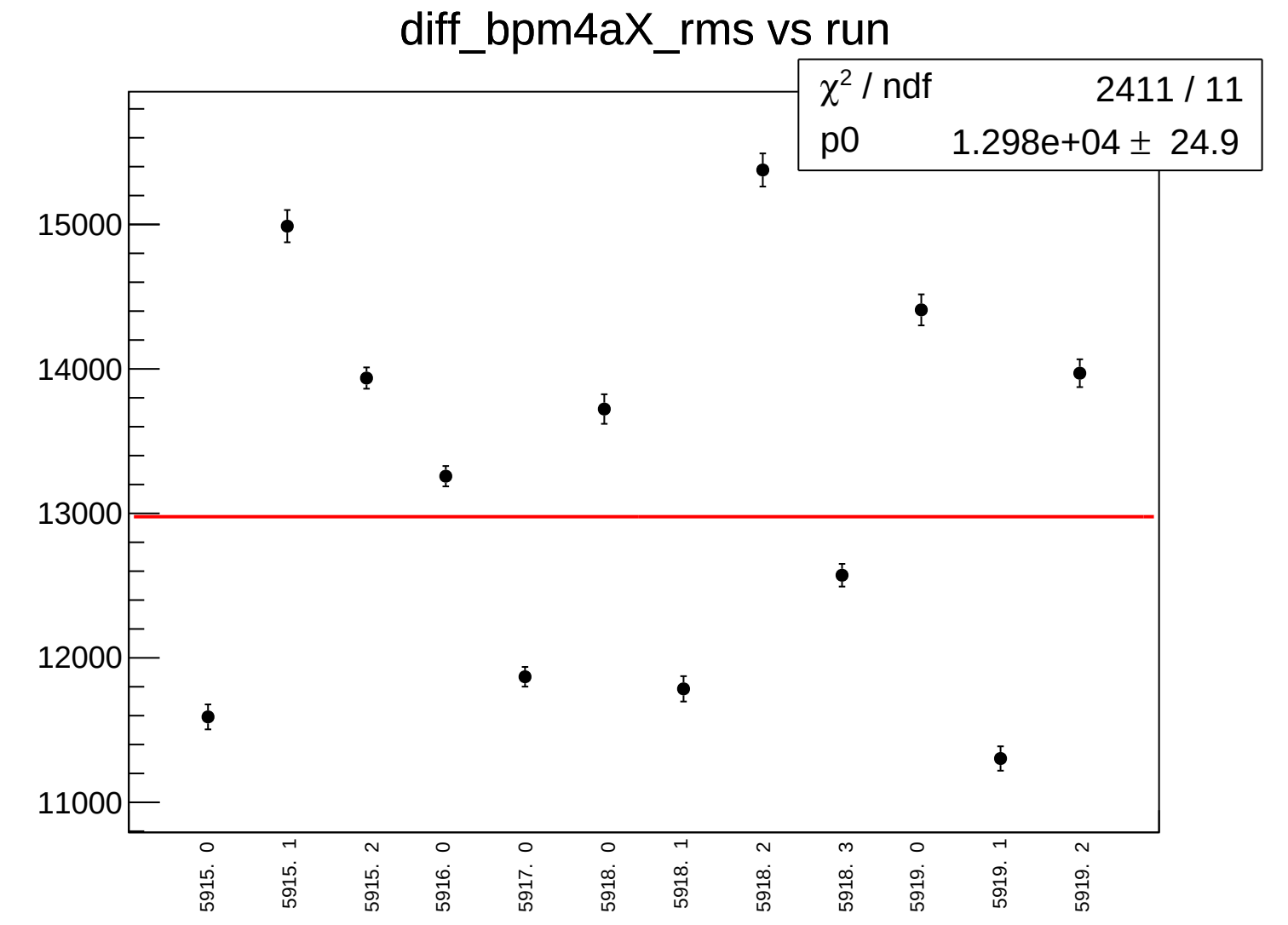

diff_cav4dY_mean vs run
χ² / ndf 13.97 / 11
p0 −0.8028 ± 1.92
20
15
10
5
0
−5
−10
−15
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 31.52
Std Dev 25.33
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

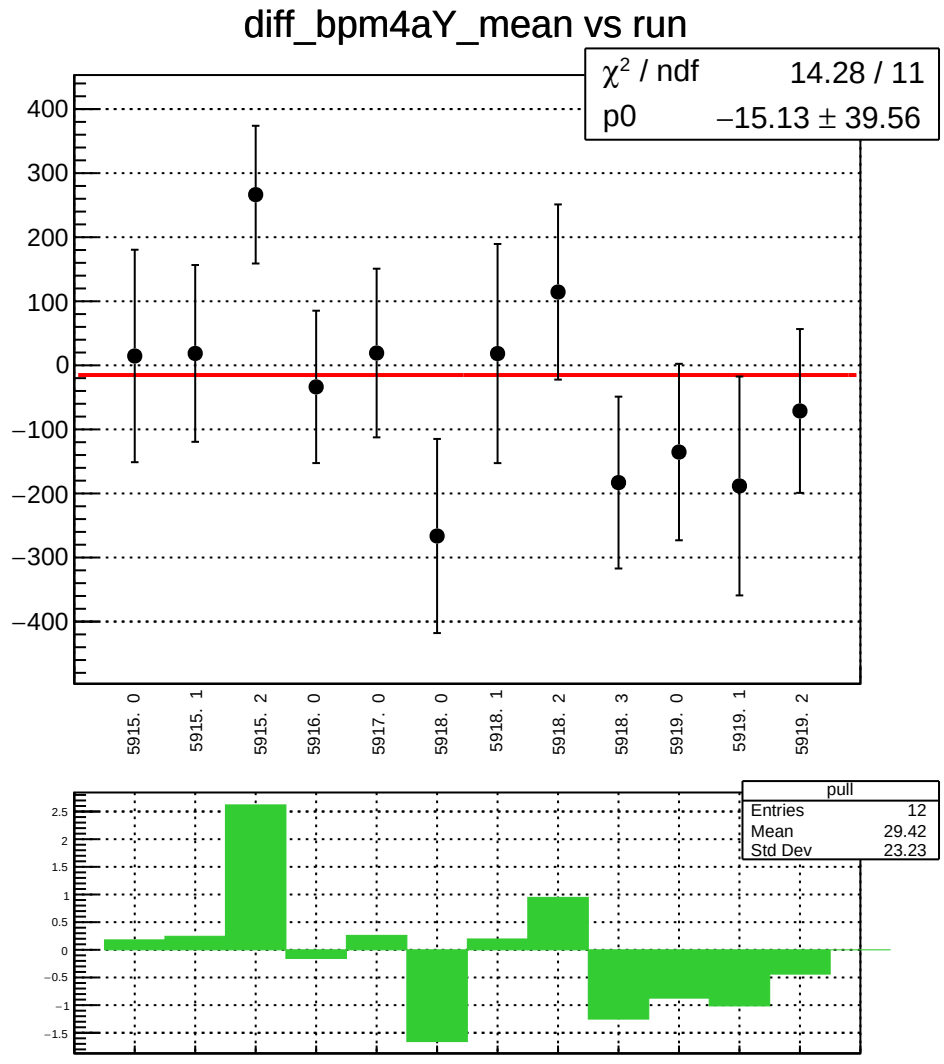

pull1D
Entries 12
Mean −0.07417
Std Dev 1.076
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

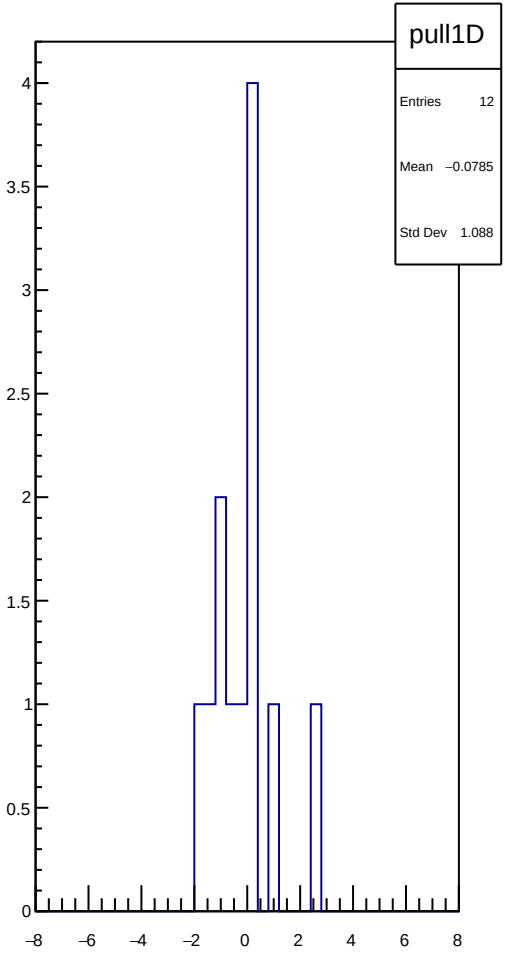

diff_cav4dY_rms vs run
χ² / ndf 1724 / 11
p0 708.5 ± 1.358
800
780
760
740
720
700
680
660
640
620
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

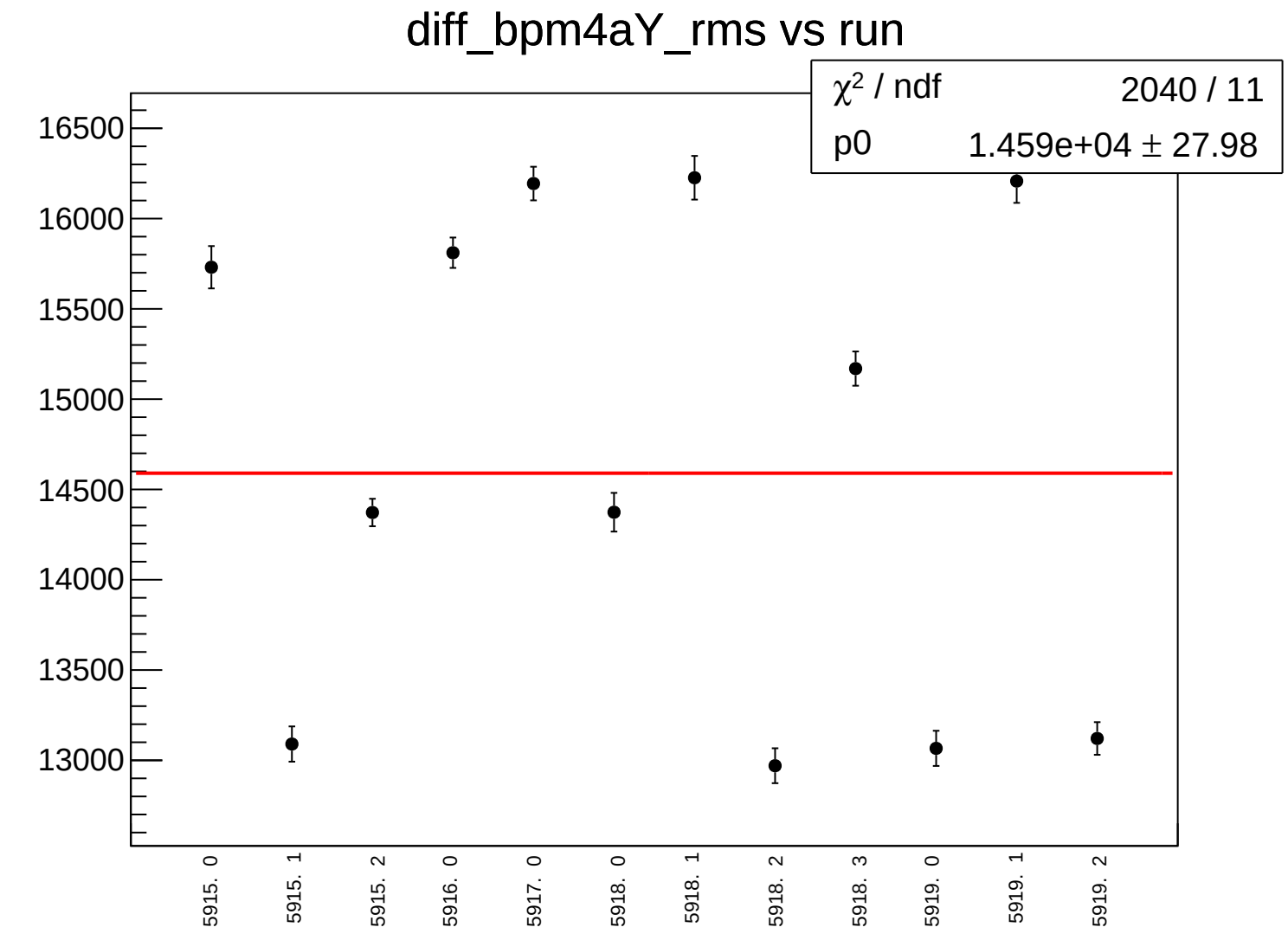

diff_bpm4aX_mean vs run
χ² / ndf 7.328 / 11
p0 19.2 ± 35.21
300
200
100
0
−100
−200
−300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.426
Std Dev 5.758
1.5
1
0.5
0
−0.5
−1

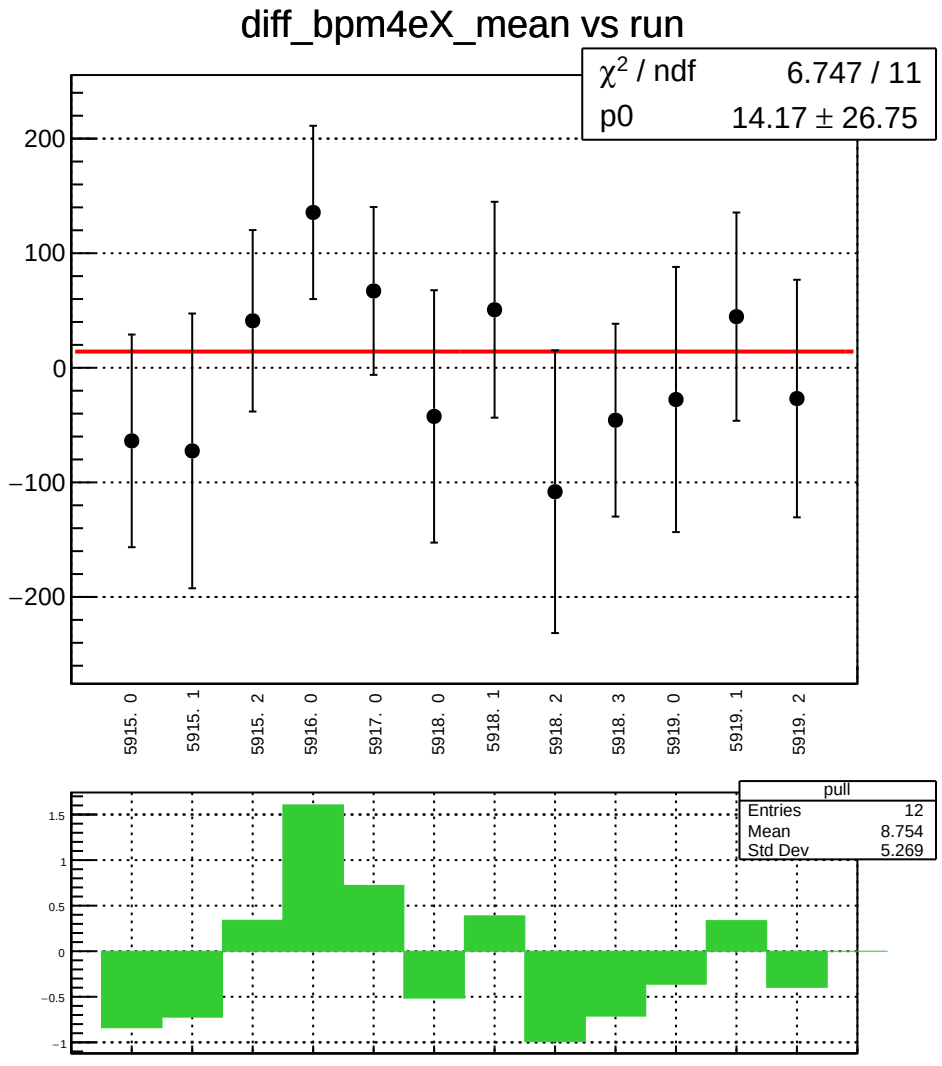

pull1D
Entries 12
Mean −0.09208
Std Dev 0.776
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

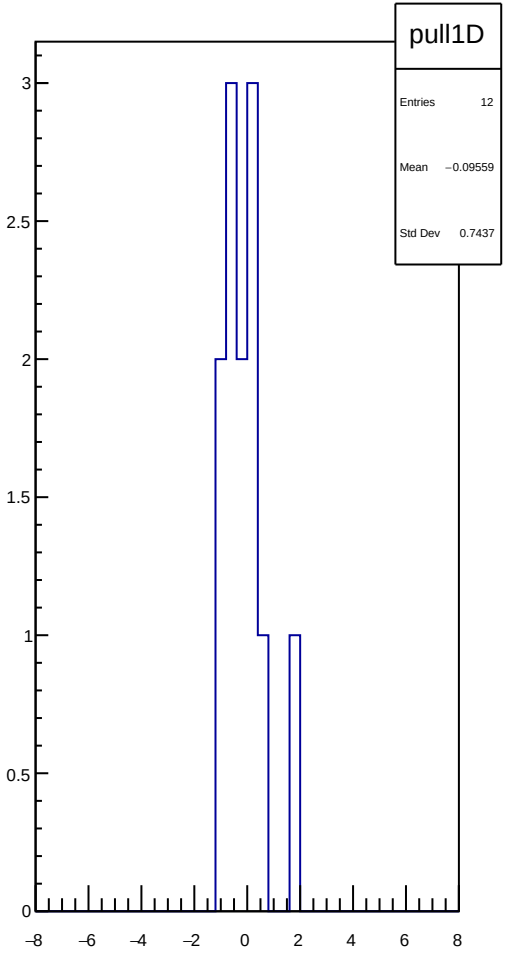

diff_bpm4aX_rms vs run
χ² / ndf 2411 / 11
p0 1.298e+04 ± 24.9
15000
14000
13000
12000
11000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

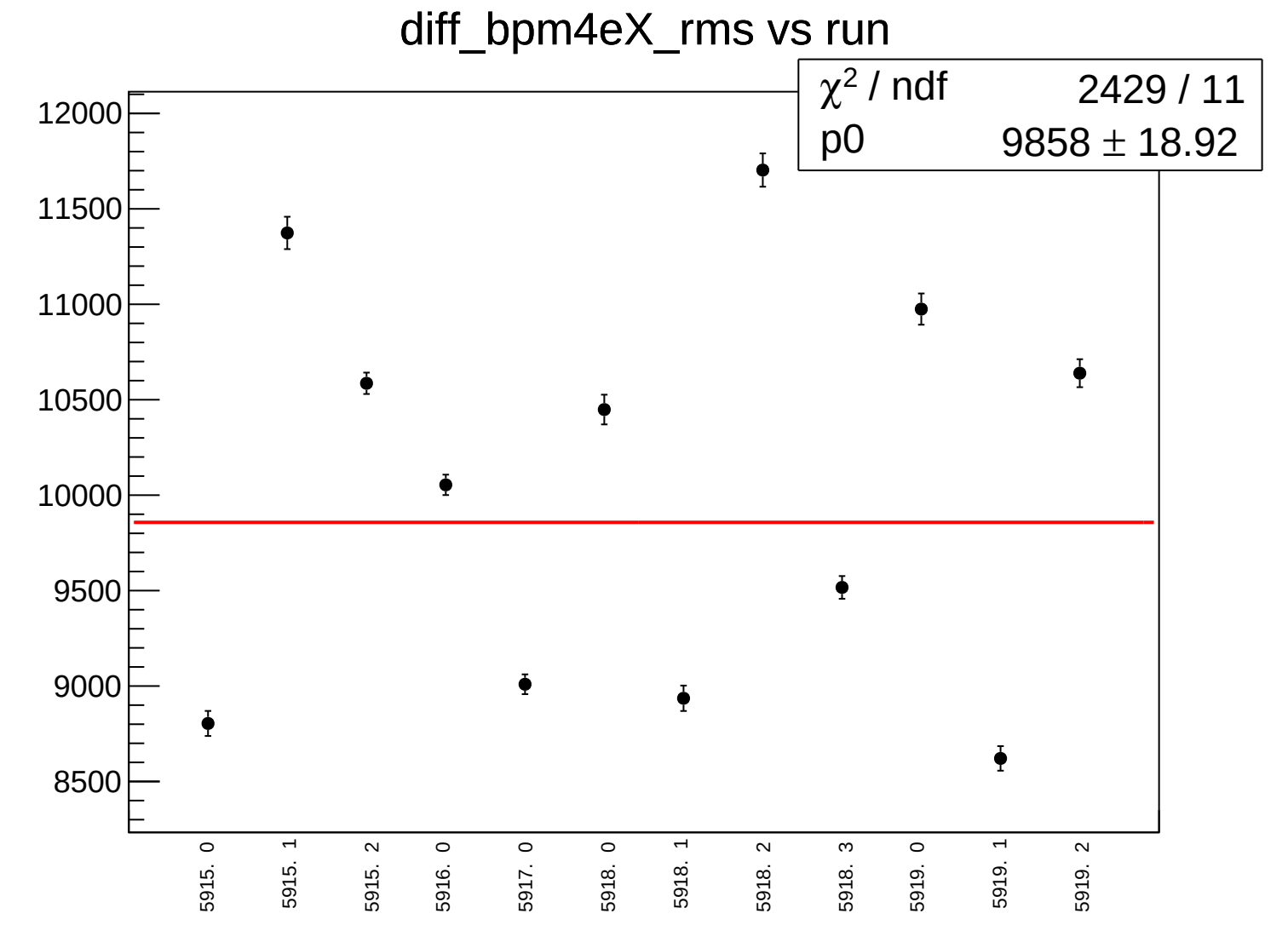

diff_bpm4aY_mean vs run
χ² / ndf 14.28 / 11
p0 −15.13 ± 39.56
400
300
200
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 29.42
Std Dev 23.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

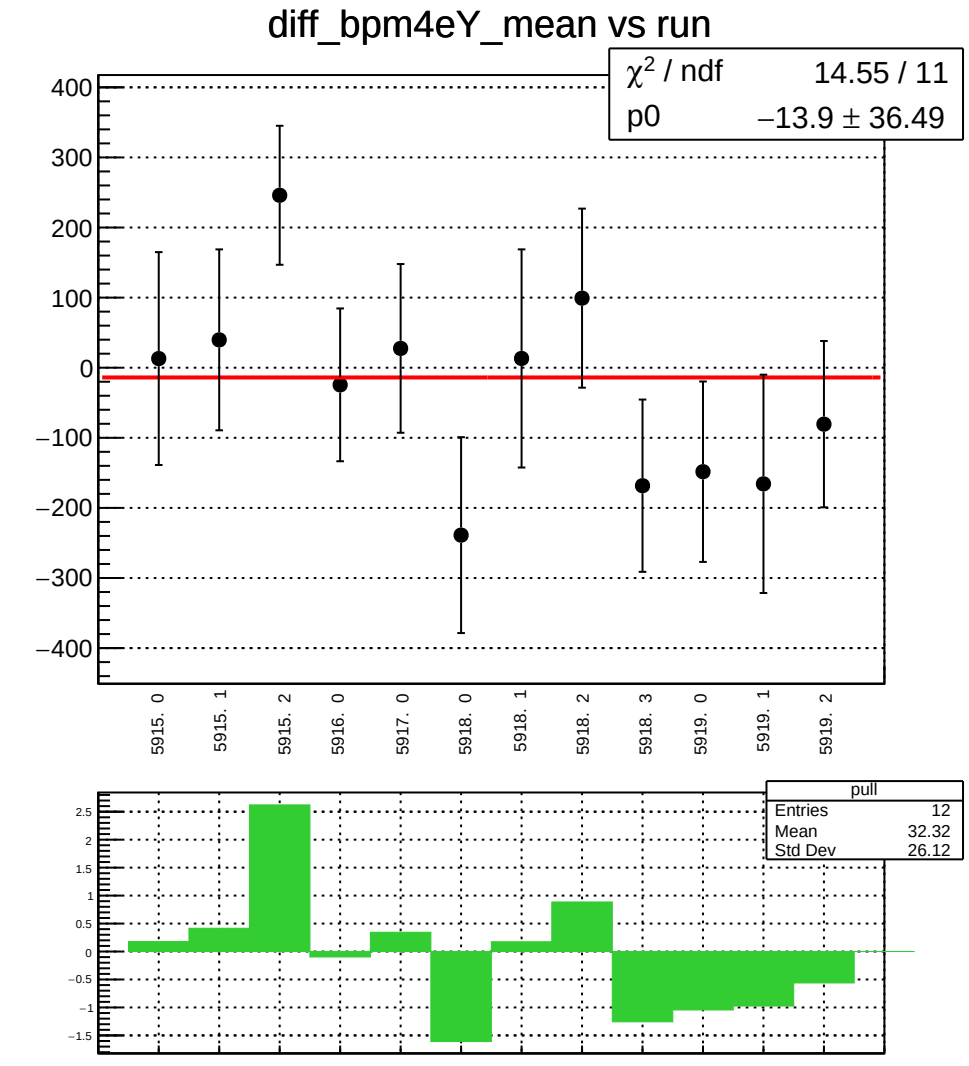

pull1D
Entries 12
Mean −0.0785
Std Dev 1.088
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

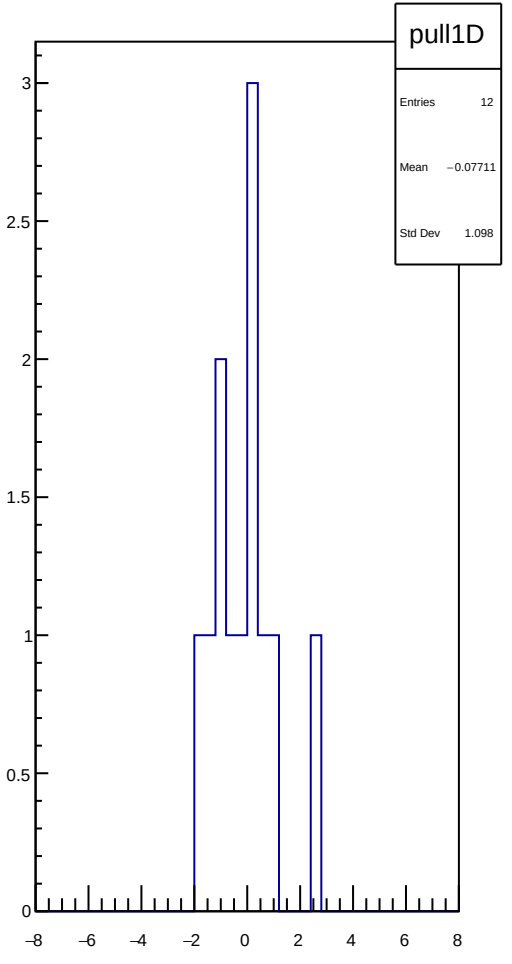

diff_bpm4aY_rms vs run
χ² / ndf 2040 / 11
p0 1.459e+04 ± 27.98
16500
16000
15500
15000
14500
14000
13500
13000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

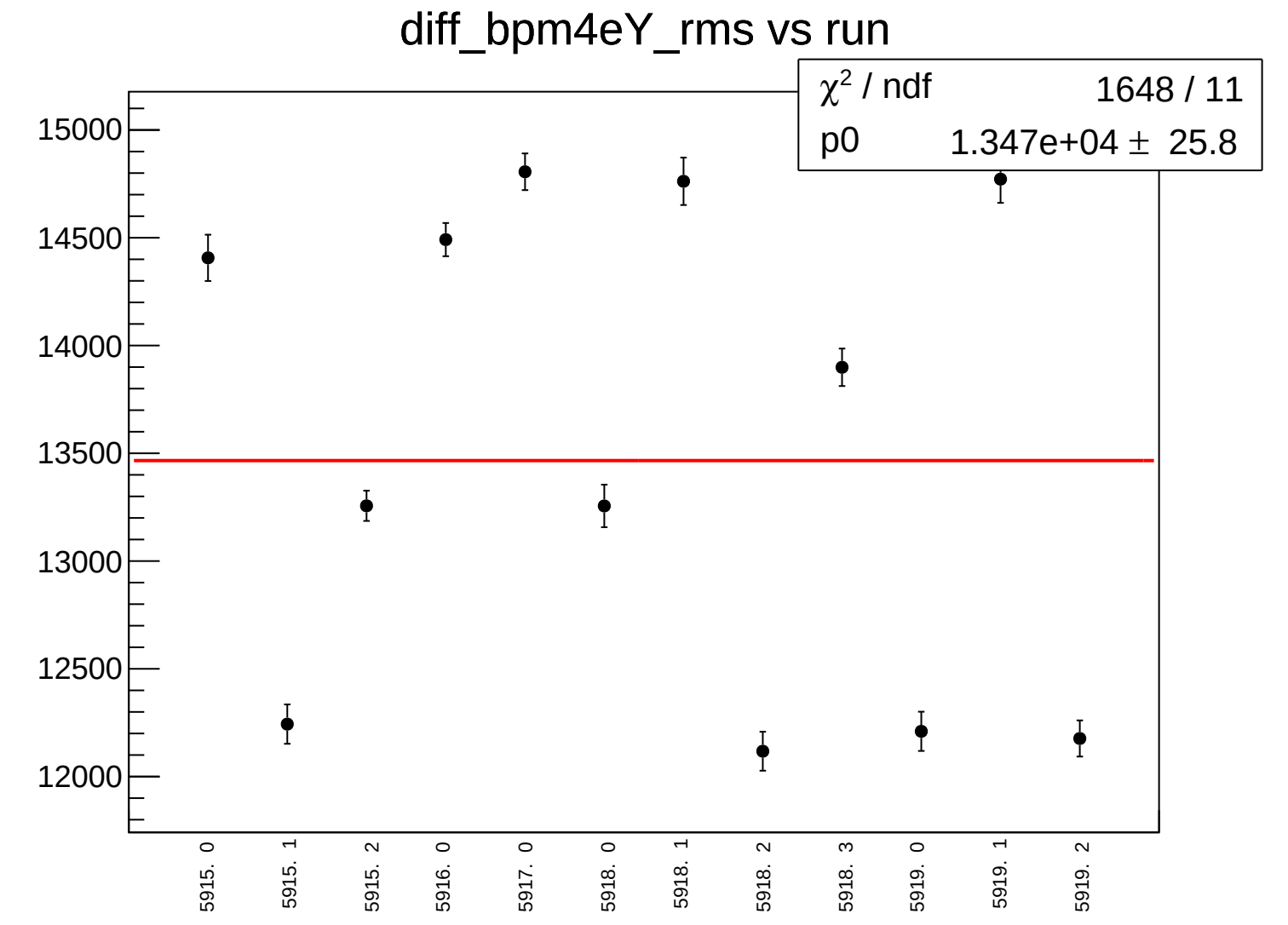

diff_bpm4eX_mean vs run
χ^2 / ndf 6.747 / 11
p0 14.17 ± 26.75
200
100
0
−100
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.754
Std Dev 5.269
1.5
1
0.5
0
−0.5
−1

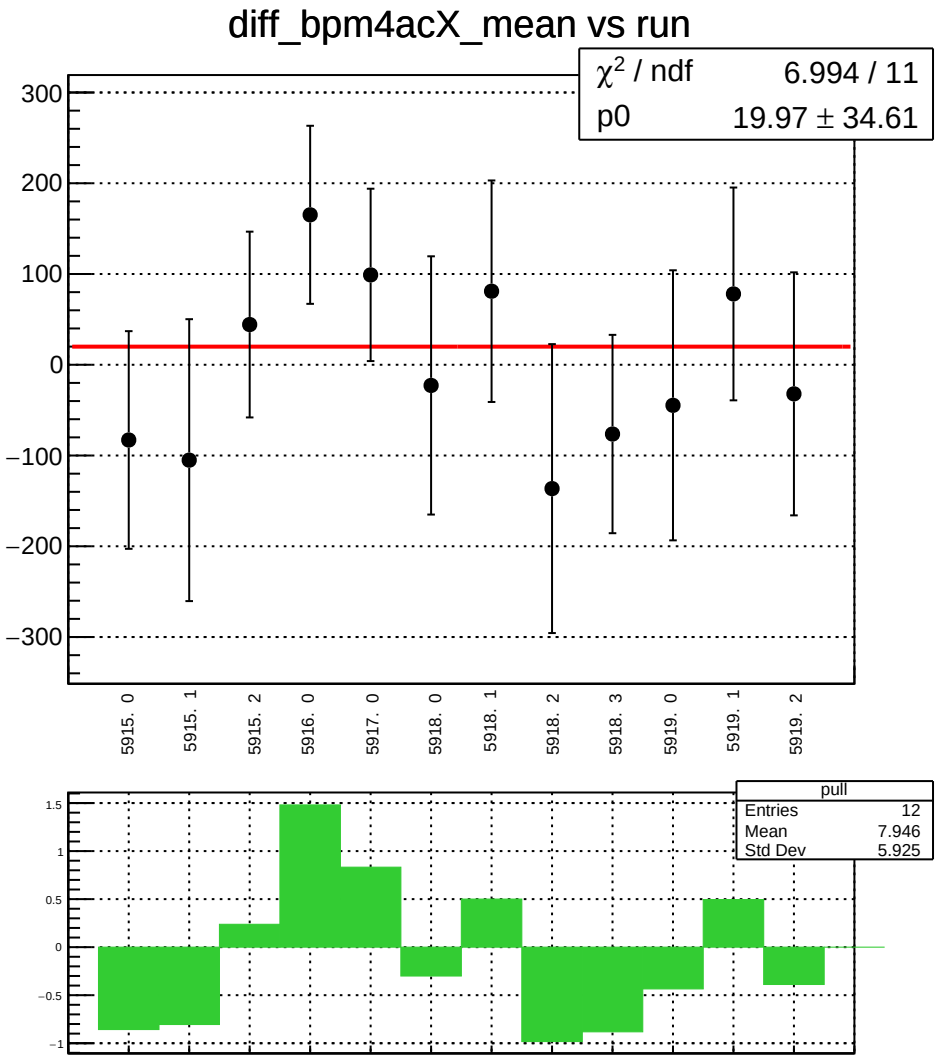

pull1D
Entries 12
Mean −0.09559
Std Dev 0.7437
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

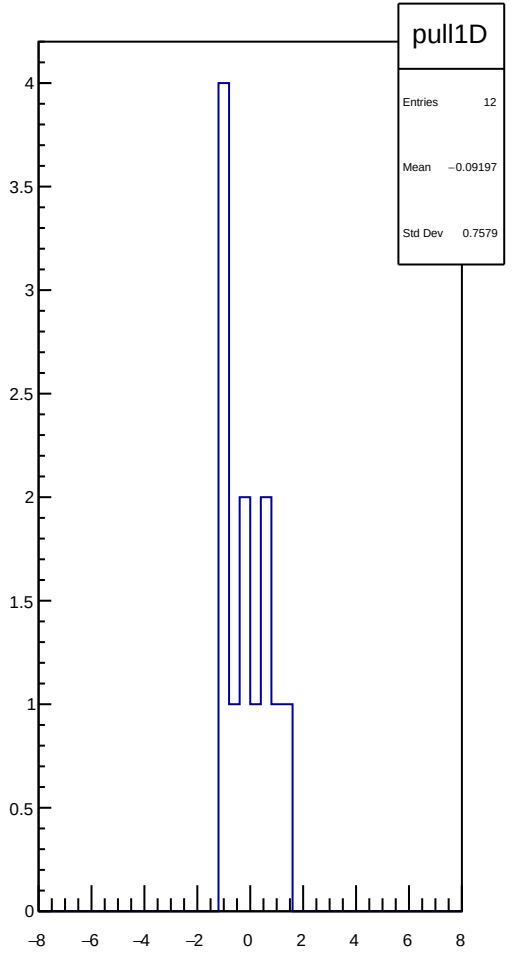

diff_bpm4eX_rms vs run
χ² / ndf 2429 / 11
p0 9858 ± 18.92
12000
11500
11000
10500
10000
9500
9000
8500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

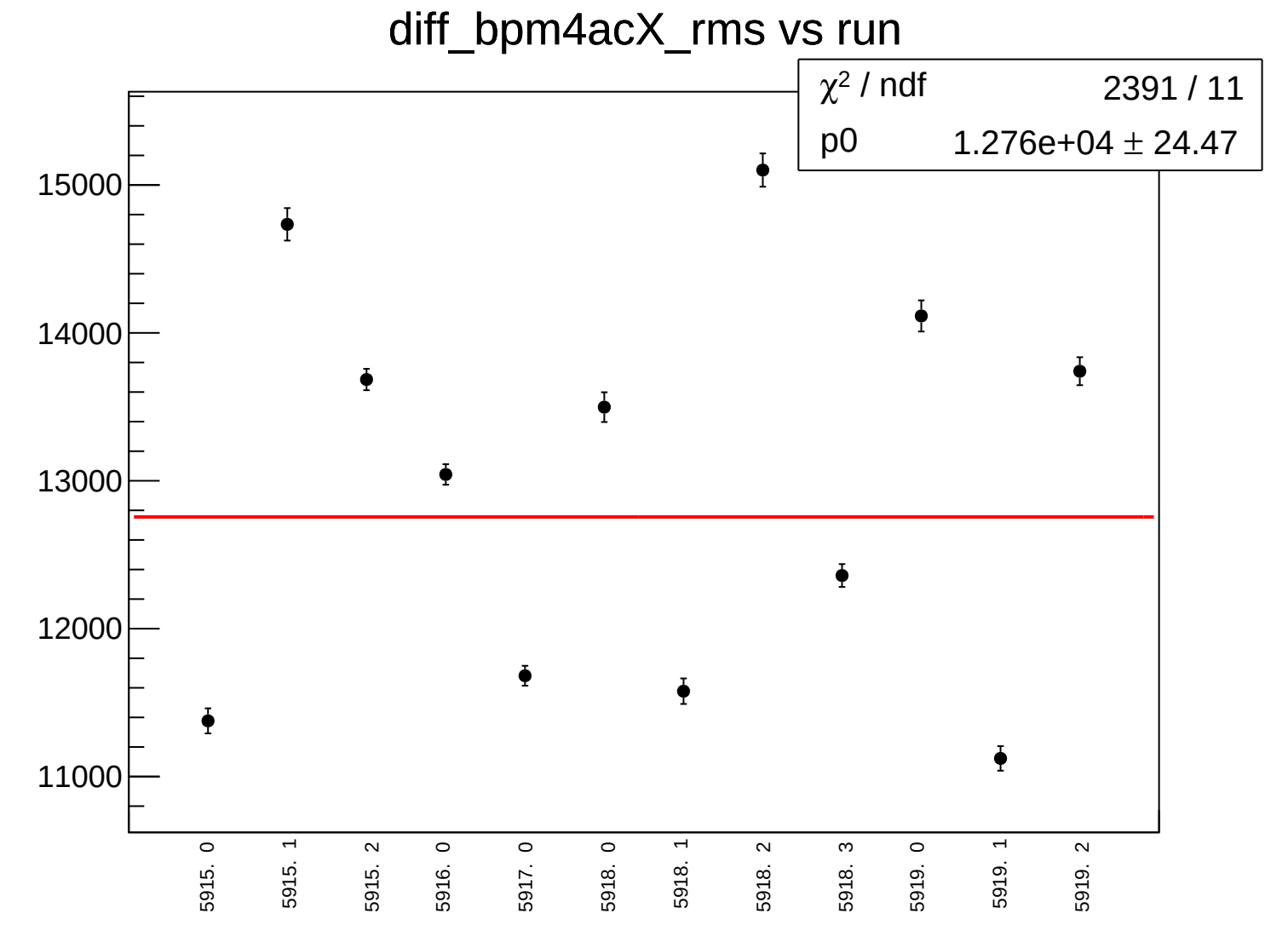

diff_bpm4eY_mean vs run
χ² / ndf 14.55 / 11
p0 −13.9 ± 36.49
400
300
200
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 32.32
Std Dev 26.12
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

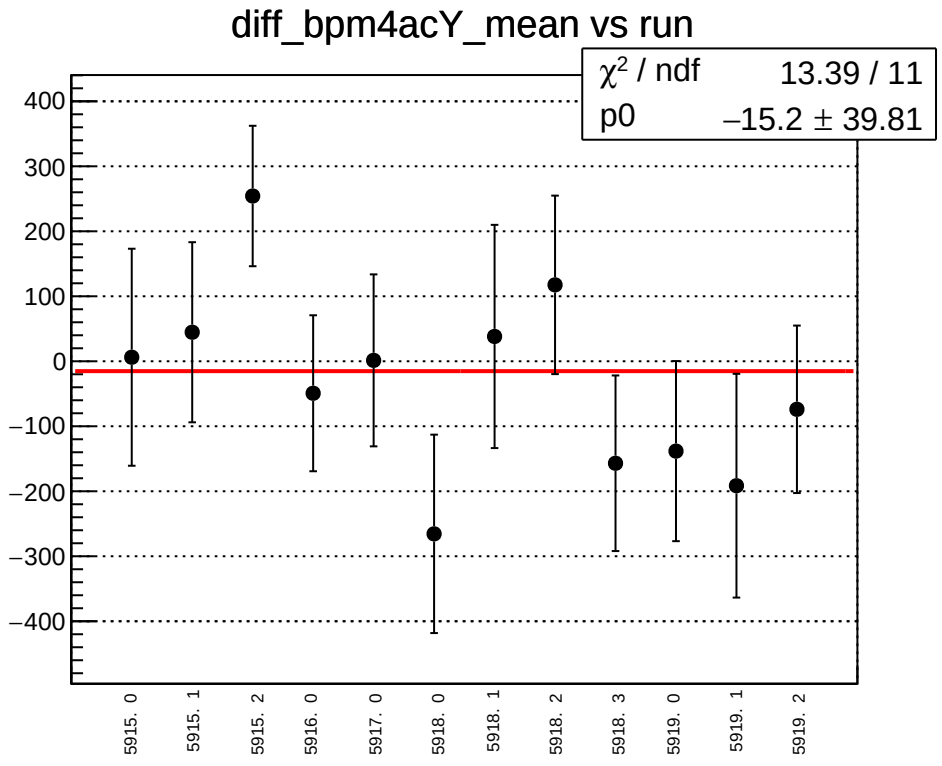

pull1D
Entries 12
Mean −0.07711
Std Dev 1.098
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

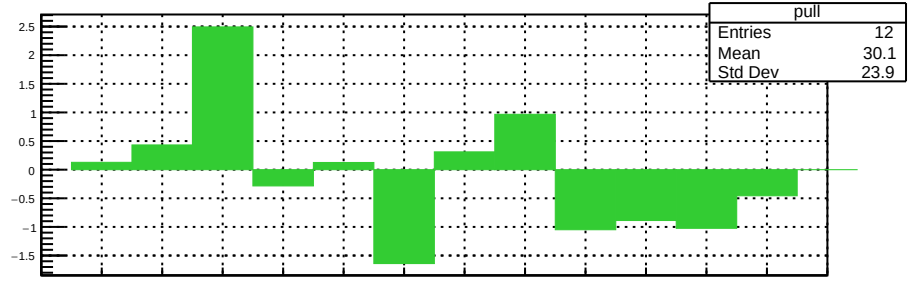

diff_bpm4eY_rms vs run
χ² / ndf 1648 / 11
p0 1.347e+04 ± 25.8
15000
14500
14000
13500
13000
12500
12000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

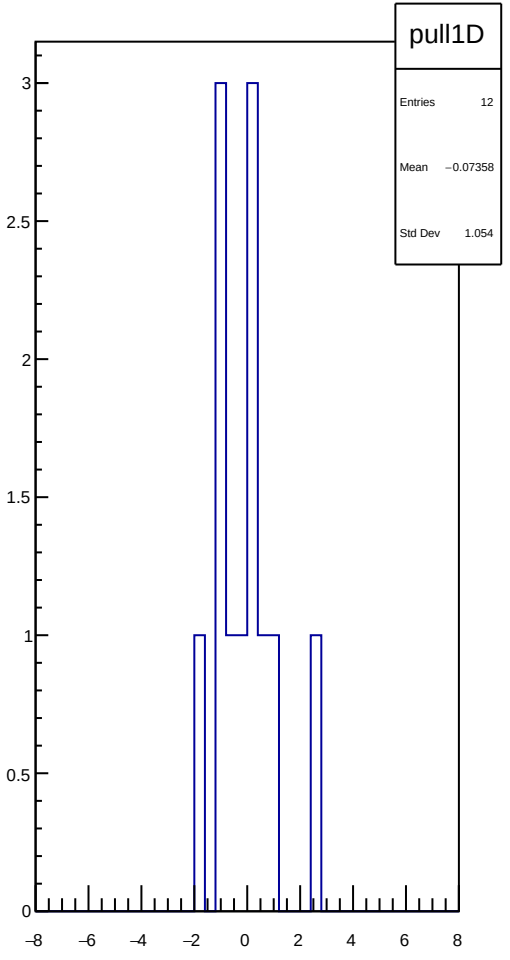

diff_bpm4acX_mean vs run
χ² / ndf 6.994 / 11
p0 19.97 ± 34.61
300
200
100
0
−100
−200
−300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.946
Std Dev 5.925
1.5
1
0.5
0
−0.5
−1

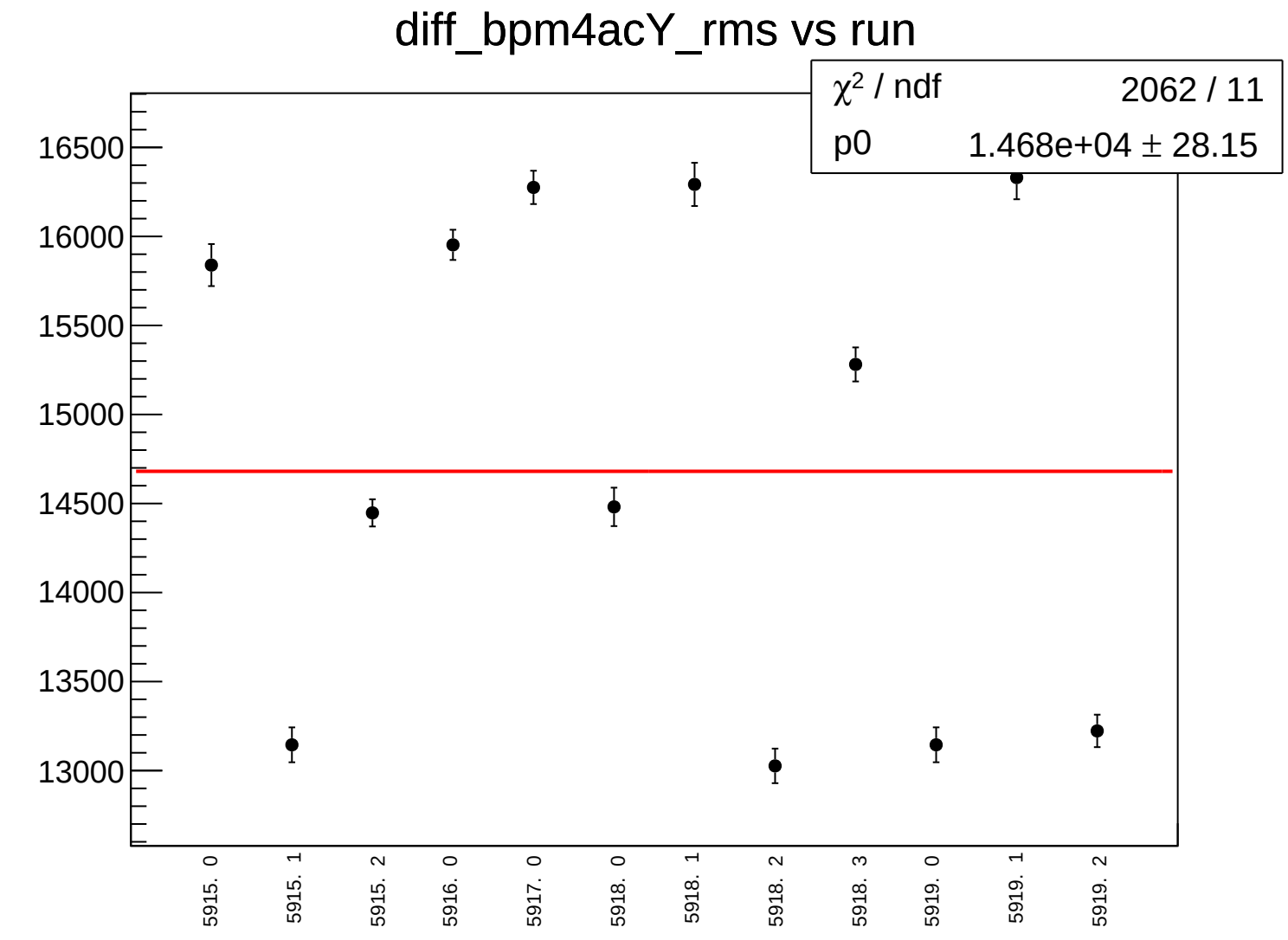

pull1D
Entries 12
Mean −0.09197
Std Dev 0.7579
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

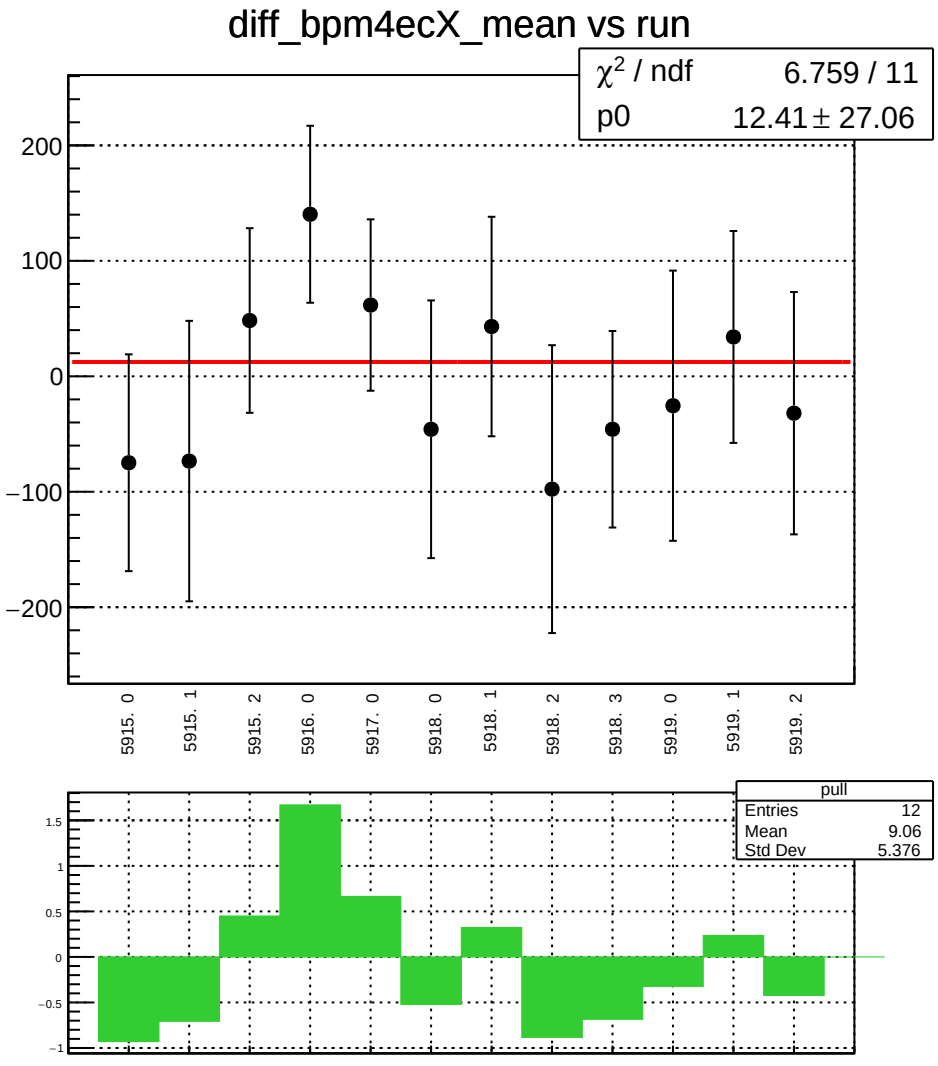

diff_bpm4acX_rms vs run
χ² / ndf 2391 / 11
p0 1.276e+04 ± 24.47
15000
14000
13000
12000
11000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

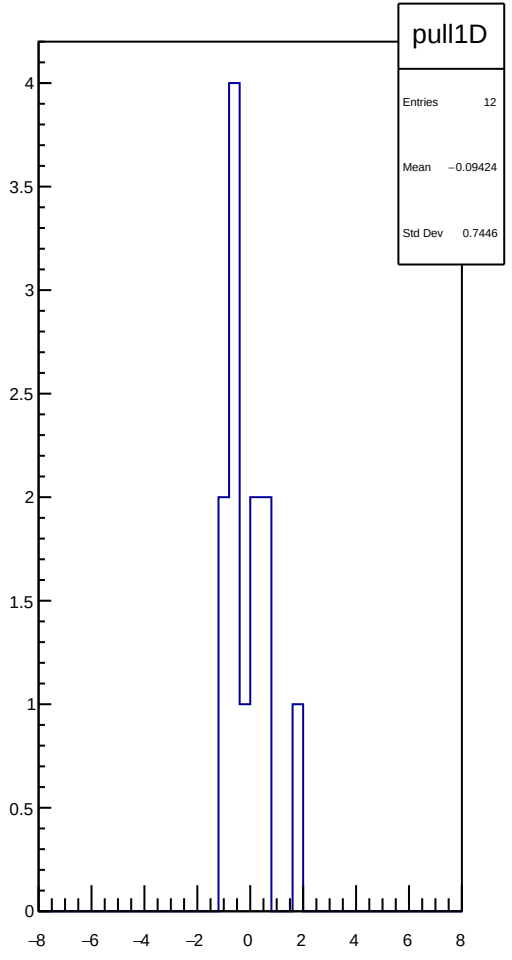

diff_bpm4acY_mean vs run
χ² / ndf 13.39 / 11
p0 −15.2 ± 39.81
400
300
200
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

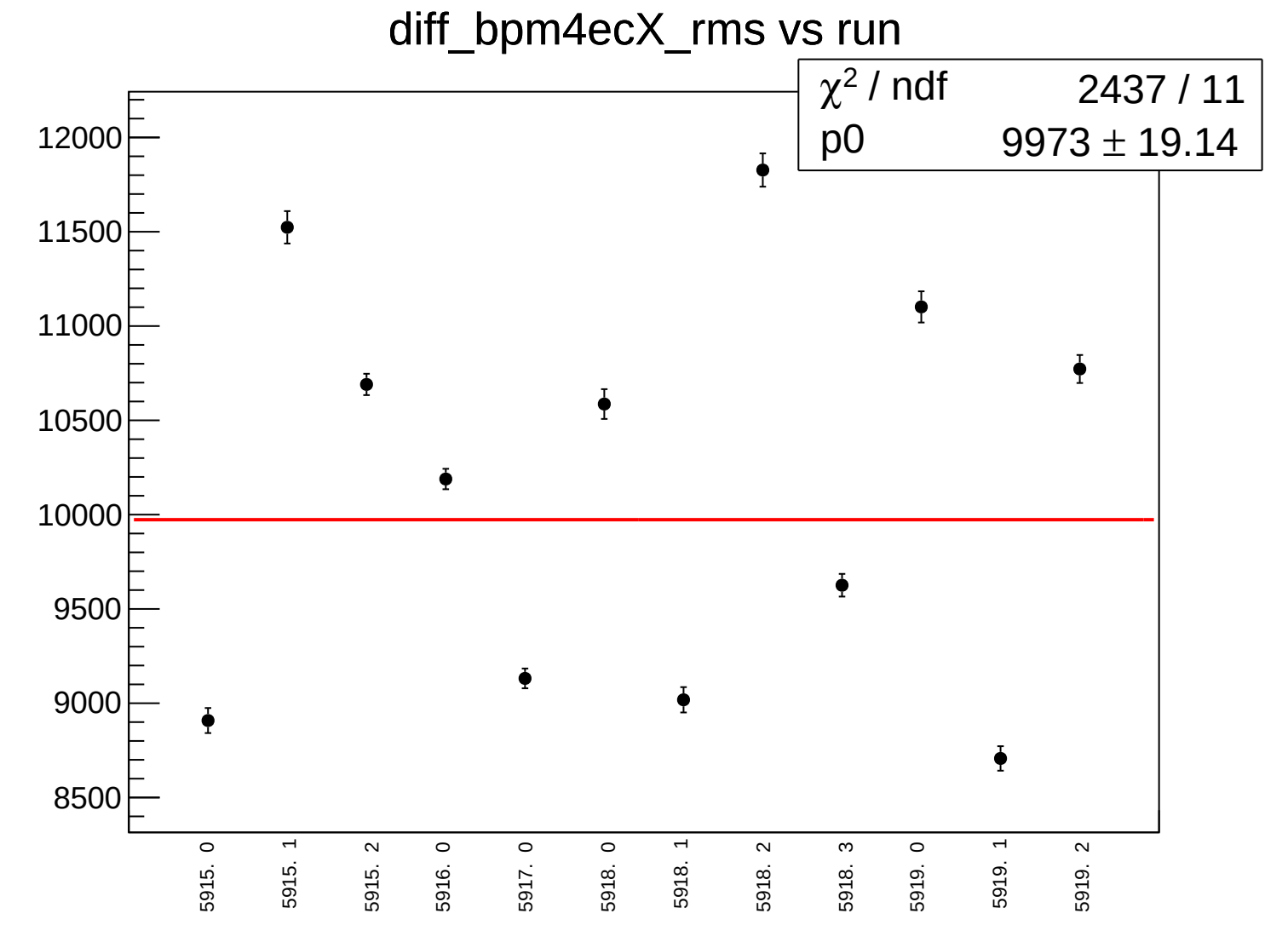

pull
Entries 12
Mean 30.1
Std Dev 23.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

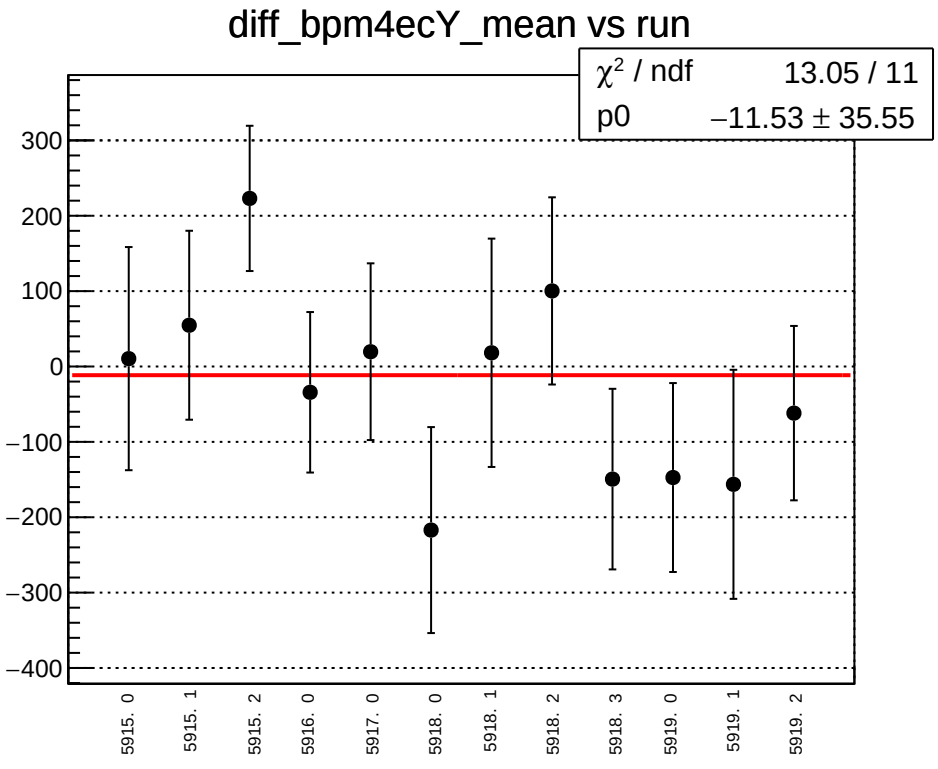

pull1D
Entries 12
Mean −0.07358
Std Dev 1.054
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

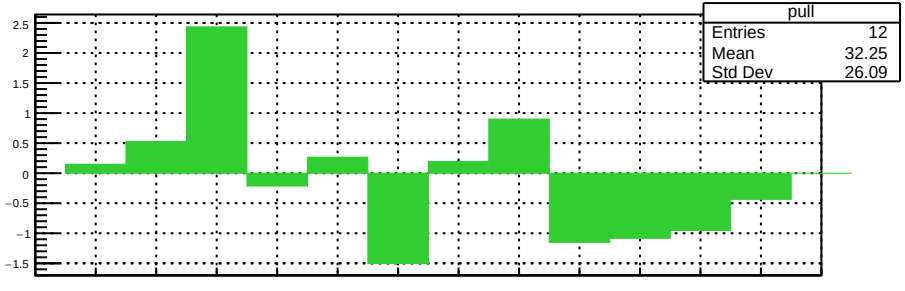

diff_bpm4acY_rms vs run
χ² / ndf 2062 / 11
p0 1.468e+04 ± 28.15
16500
16000
15500
15000
14500
14000
13500
13000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

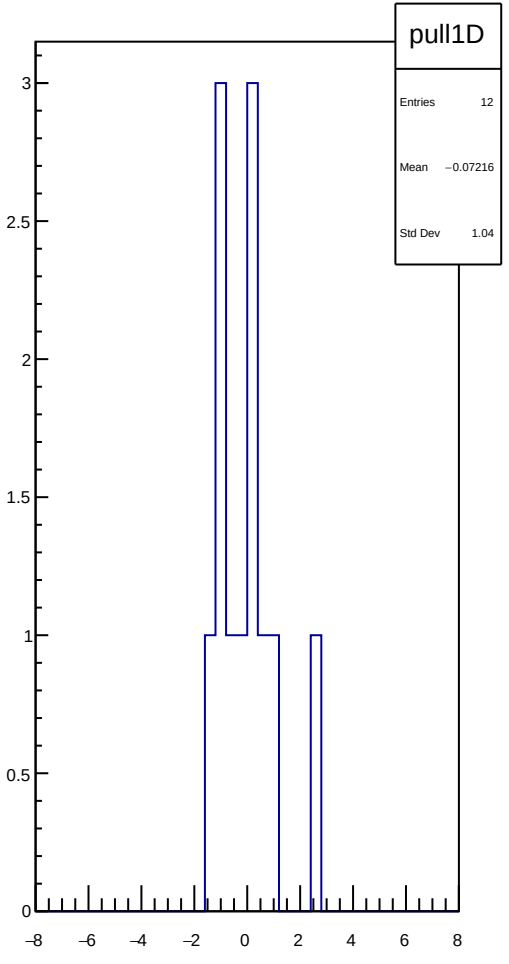

diff_bpm4ecX_mean vs run
χ² / ndf 6.759 / 11
p0 12.41 ± 27.06
200
100
0
−100
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 9.06
Std Dev 5.376
1.5
1
0.5
0
−0.5
−1

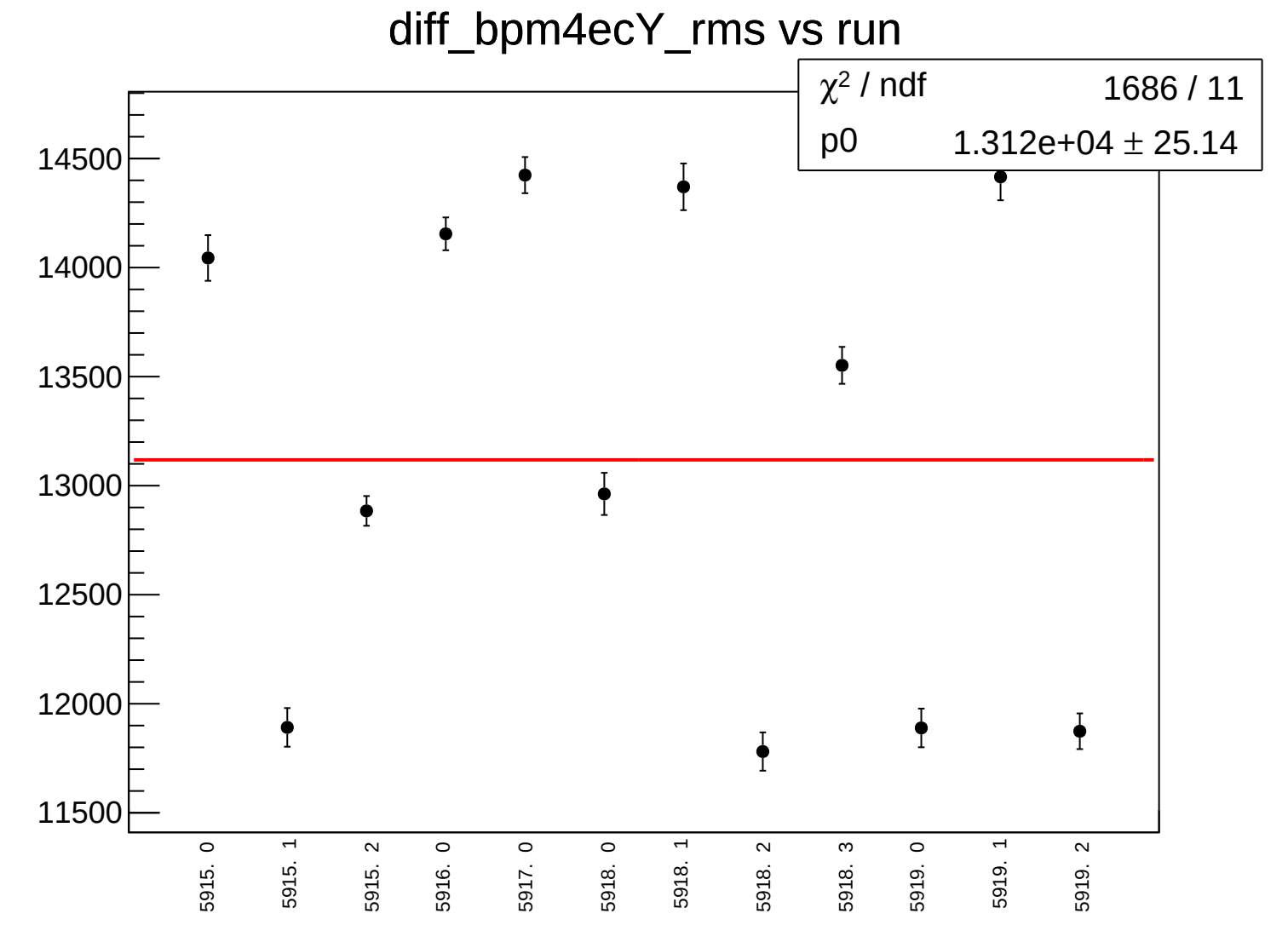

pull1D
Entries 12
Mean −0.09424
Std Dev 0.7446
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

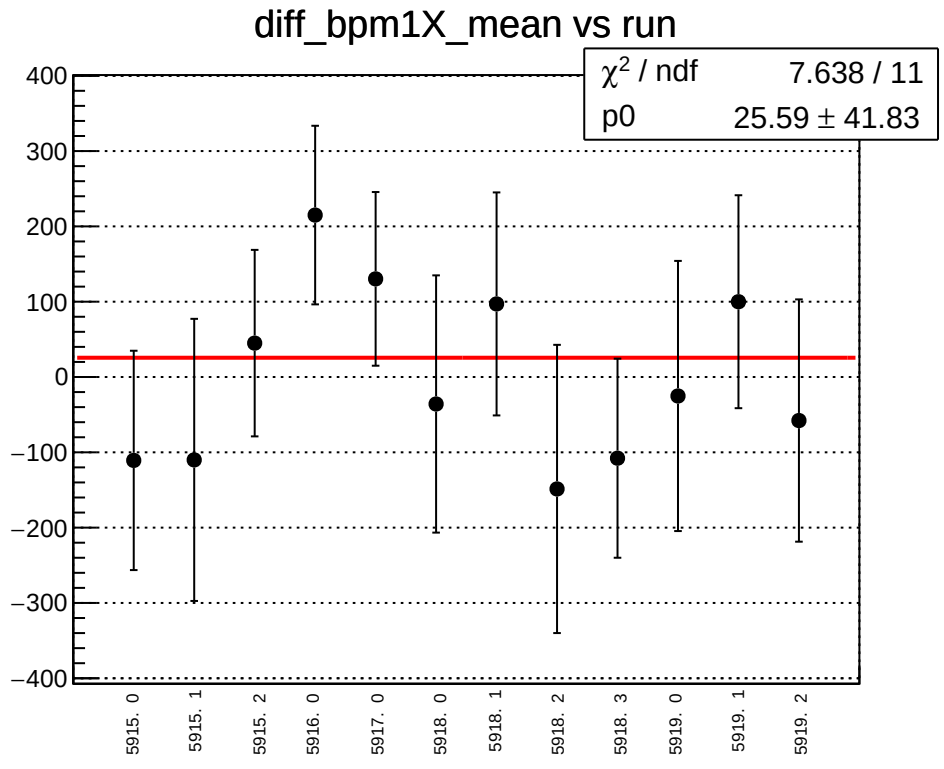

diff_bpm4ecX_rms vs run
χ² / ndf 2437 / 11
p0 9973 ± 19.14
12000
11500
11000
10500
10000
9500
9000
8500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

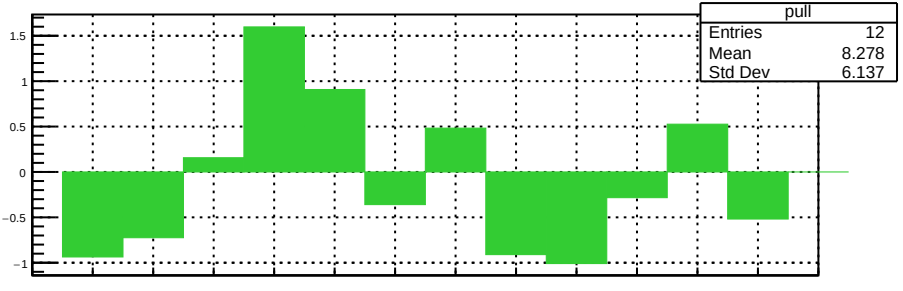

diff_bpm4ecY_mean vs run
χ² / ndf 13.05 / 11
p0 −11.53 ± 35.55
300
200
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

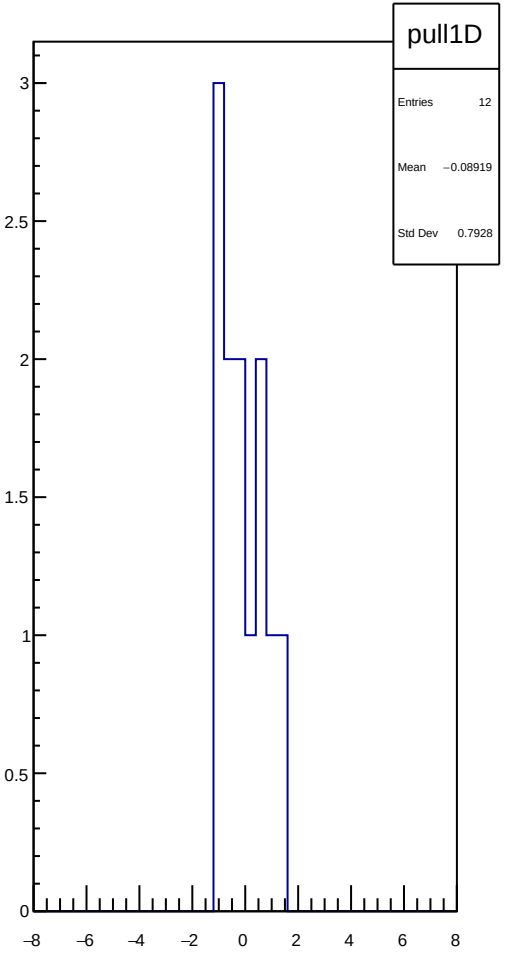

pull
Entries 12
Mean 32.25
Std Dev 26.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

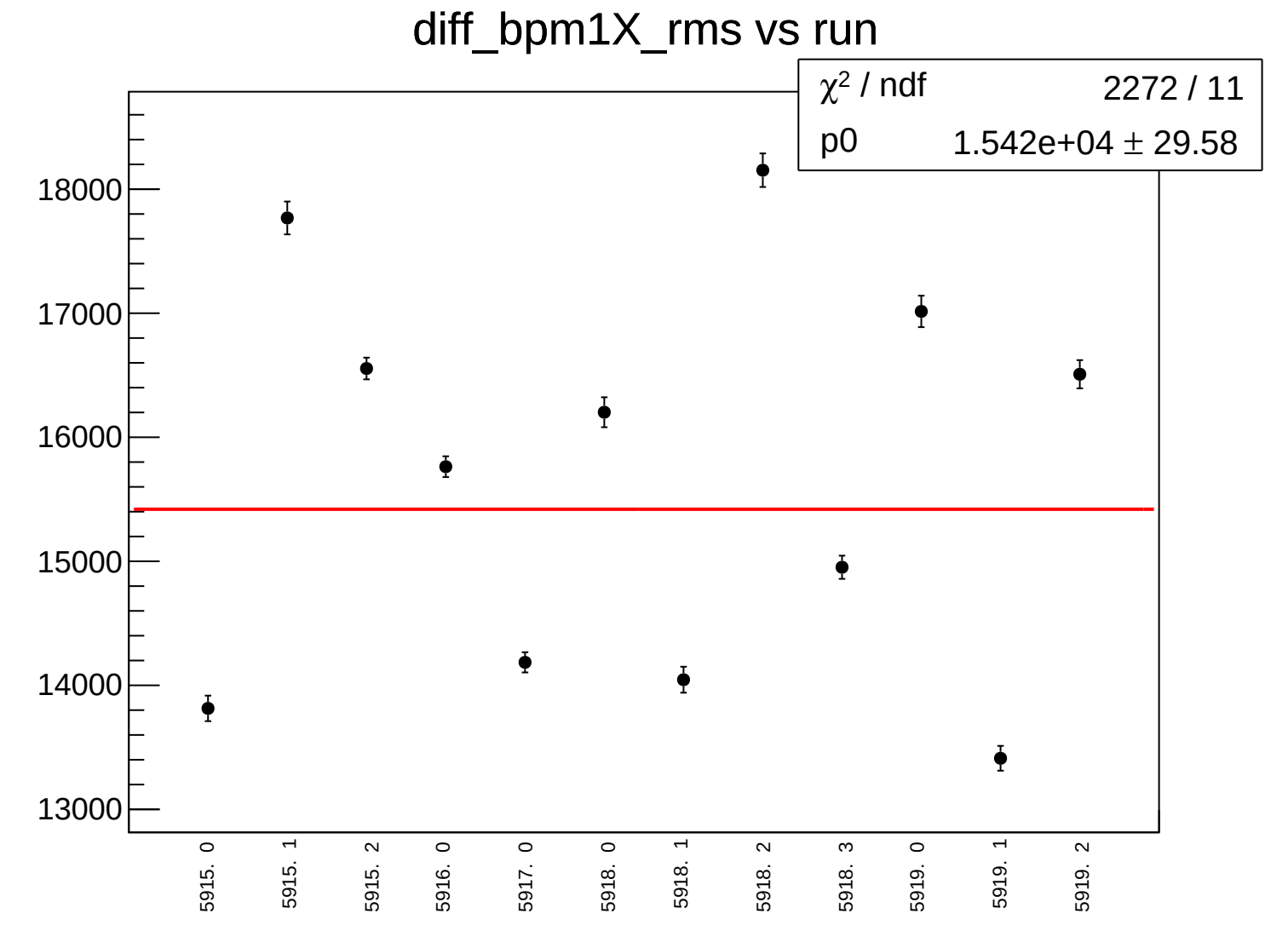

pull1D
Entries 12
Mean −0.07216
Std Dev 1.04
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

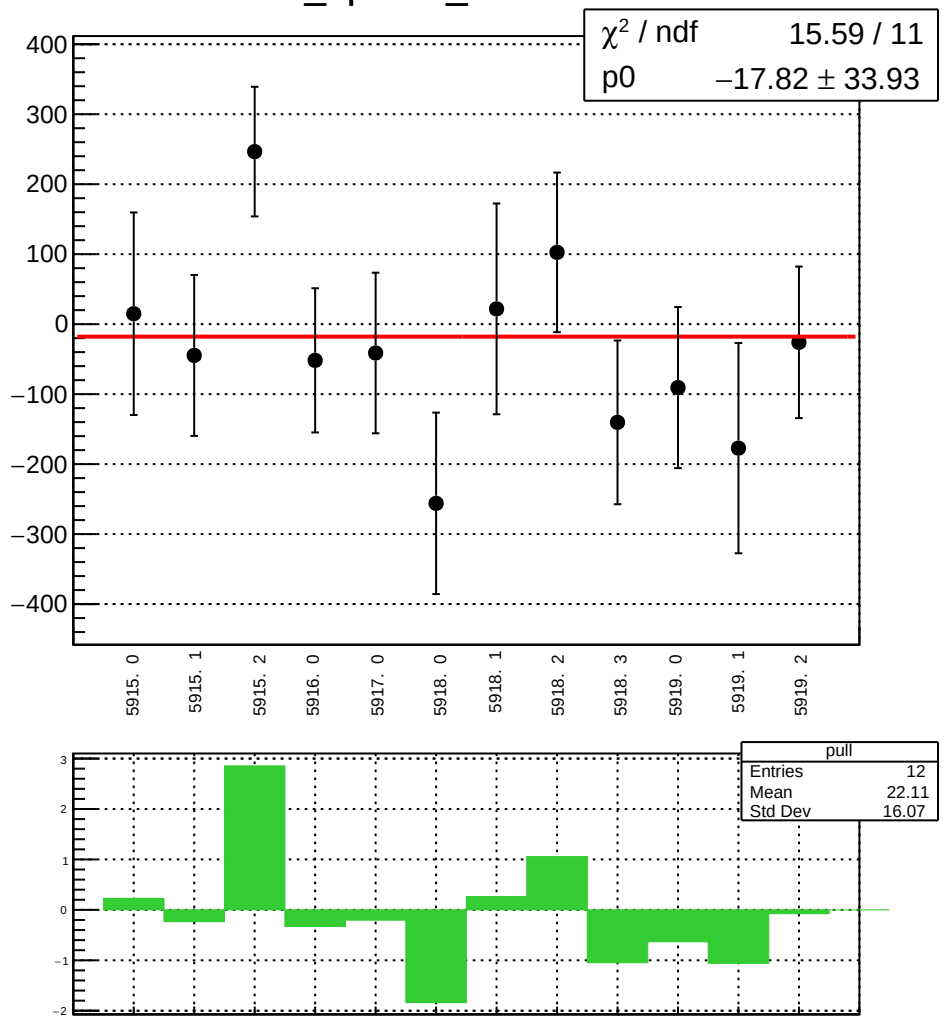

diff_bpm4ecY_rms vs run
χ² / ndf 1686 / 11
p0 1.312e+04 ± 25.14
14500
14000
13500
13000
12500
12000
11500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

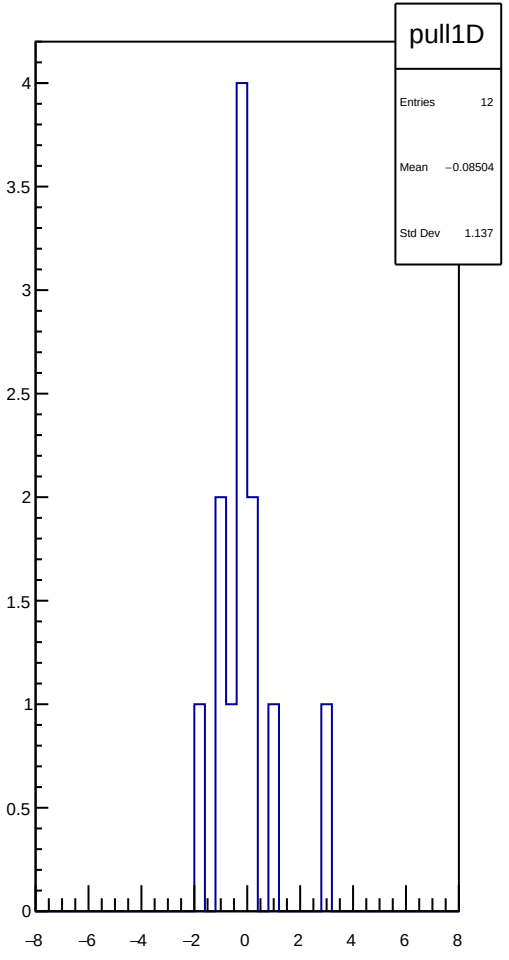

diff_bpm1X_mean vs run
χ² / ndf 7.638 / 11
p0 25.59 ± 41.83
400
300
200
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

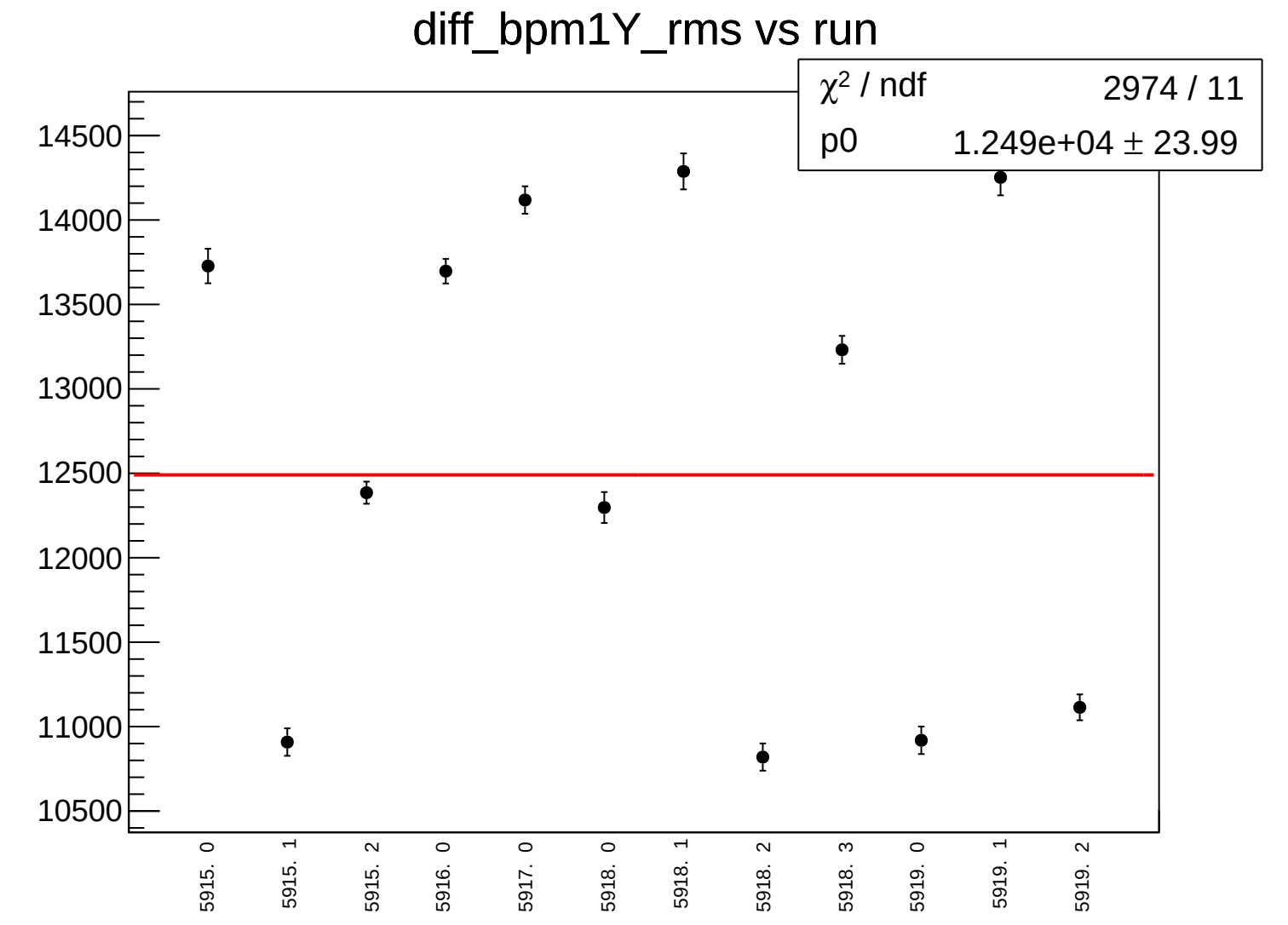

pull
Entries 12
Mean 8.278
Std Dev 6.137
1.5
1
0.5
0
−0.5
−1

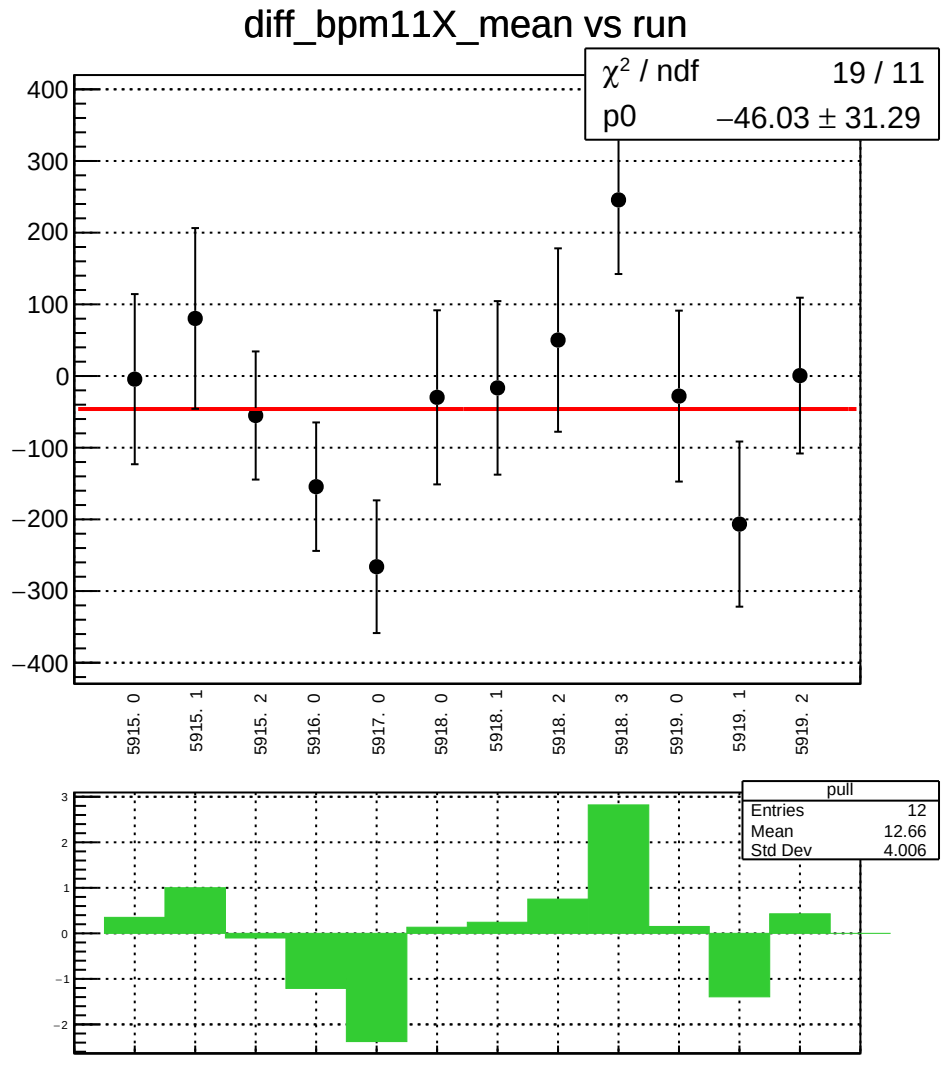

pull1D
Entries 12
Mean −0.08919
Std Dev 0.7928
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

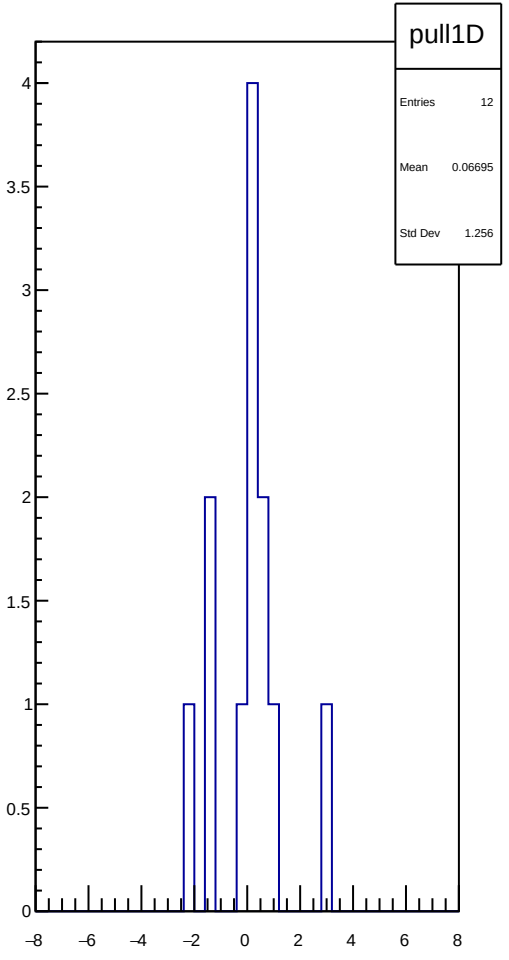

diff_bpm1X_rms vs run
χ² / ndf 2272 / 11
p0 1.542e+04 ± 29.58
18000
17000
16000
15000
14000
13000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

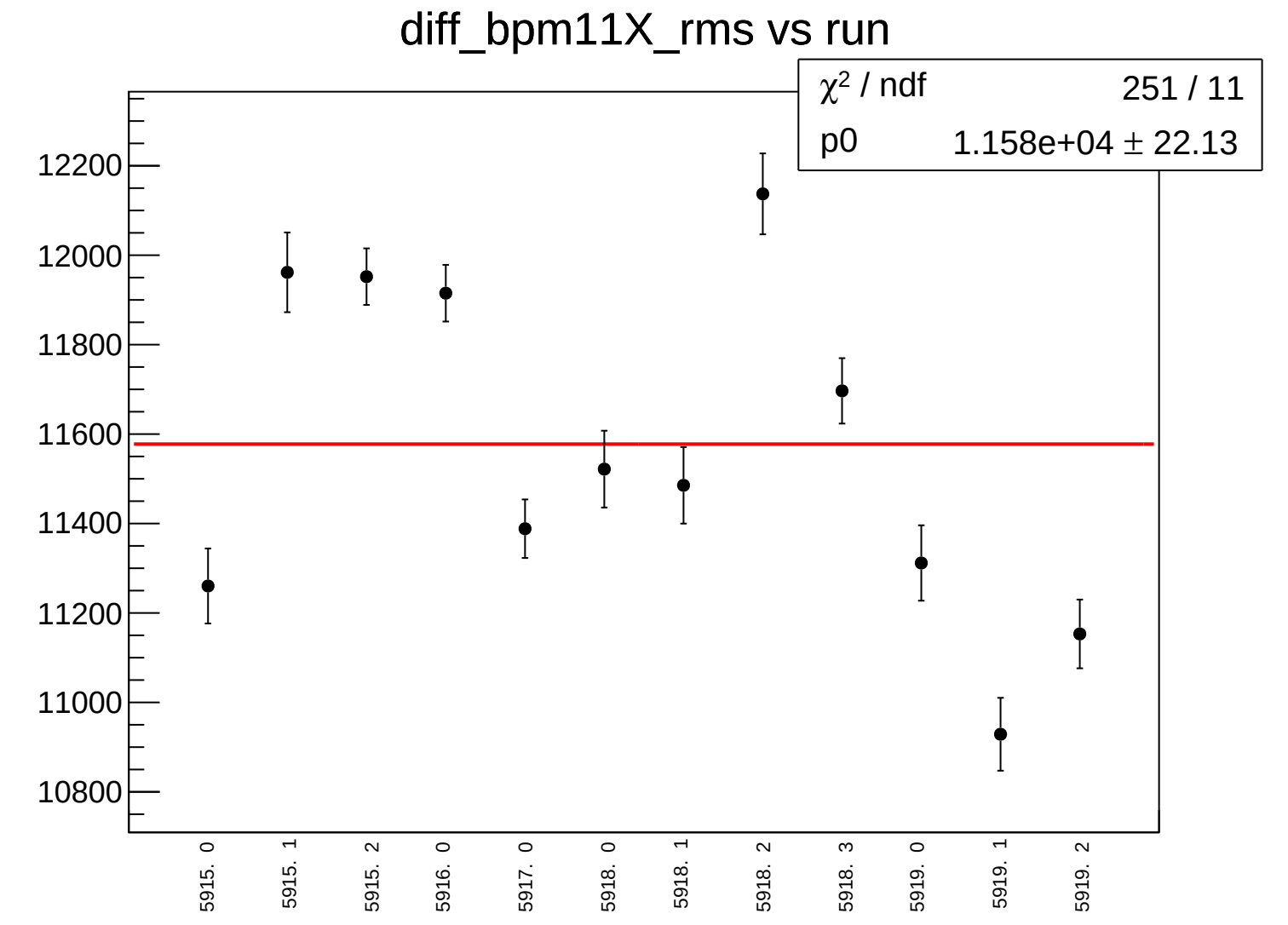

diff_bpm1Y_mean vs run
χ² / ndf 15.59 / 11
p0 −17.82 ± 33.93
400
300
200
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.11
Std Dev 16.07
3
2
1
0
−1
−2

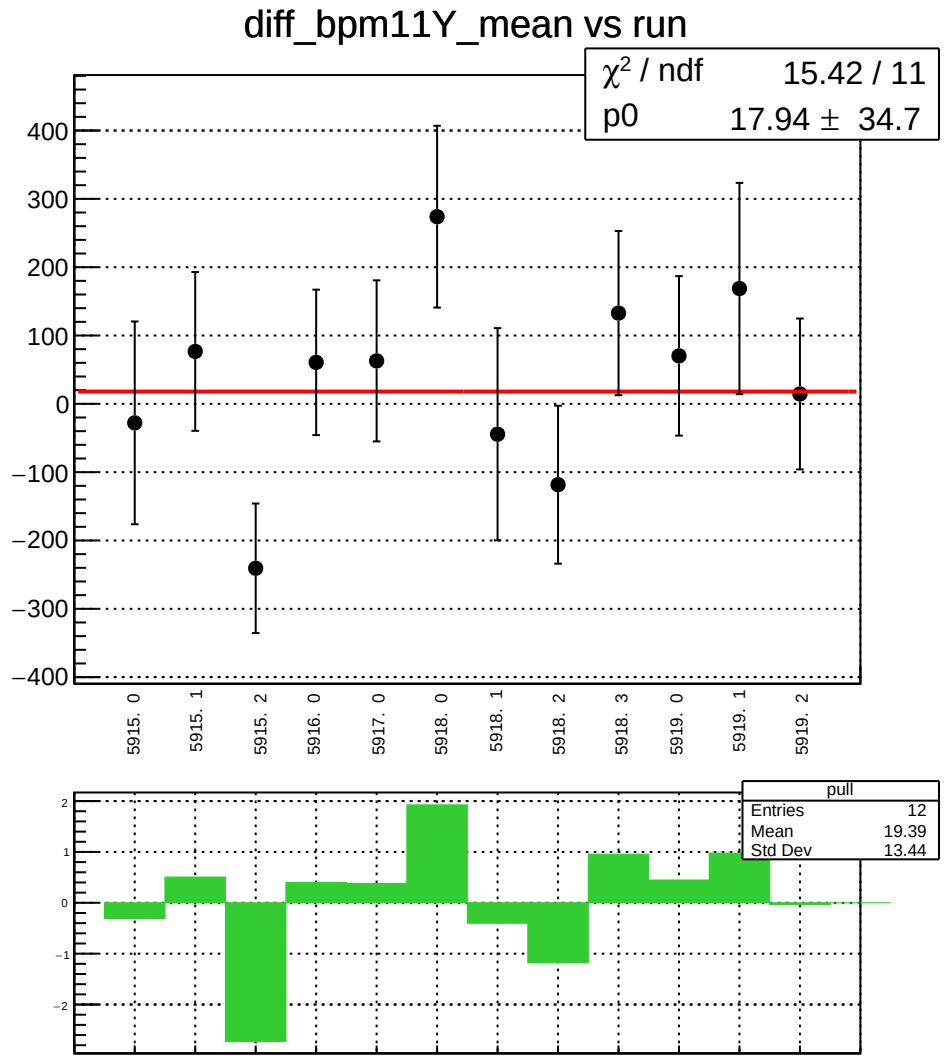

pull1D
Entries 12
Mean −0.08504
Std Dev 1.137
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

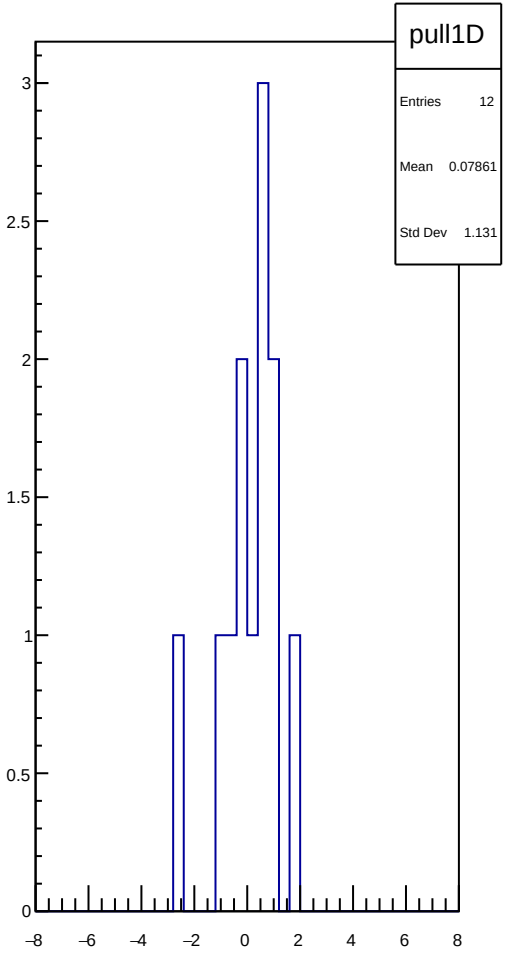

diff_bpm1Y_rms vs run
χ² / ndf 2974 / 11
p0 1.249e+04 ± 23.99
14500
14000
13500
13000
12500
12000
11500
11000
10500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

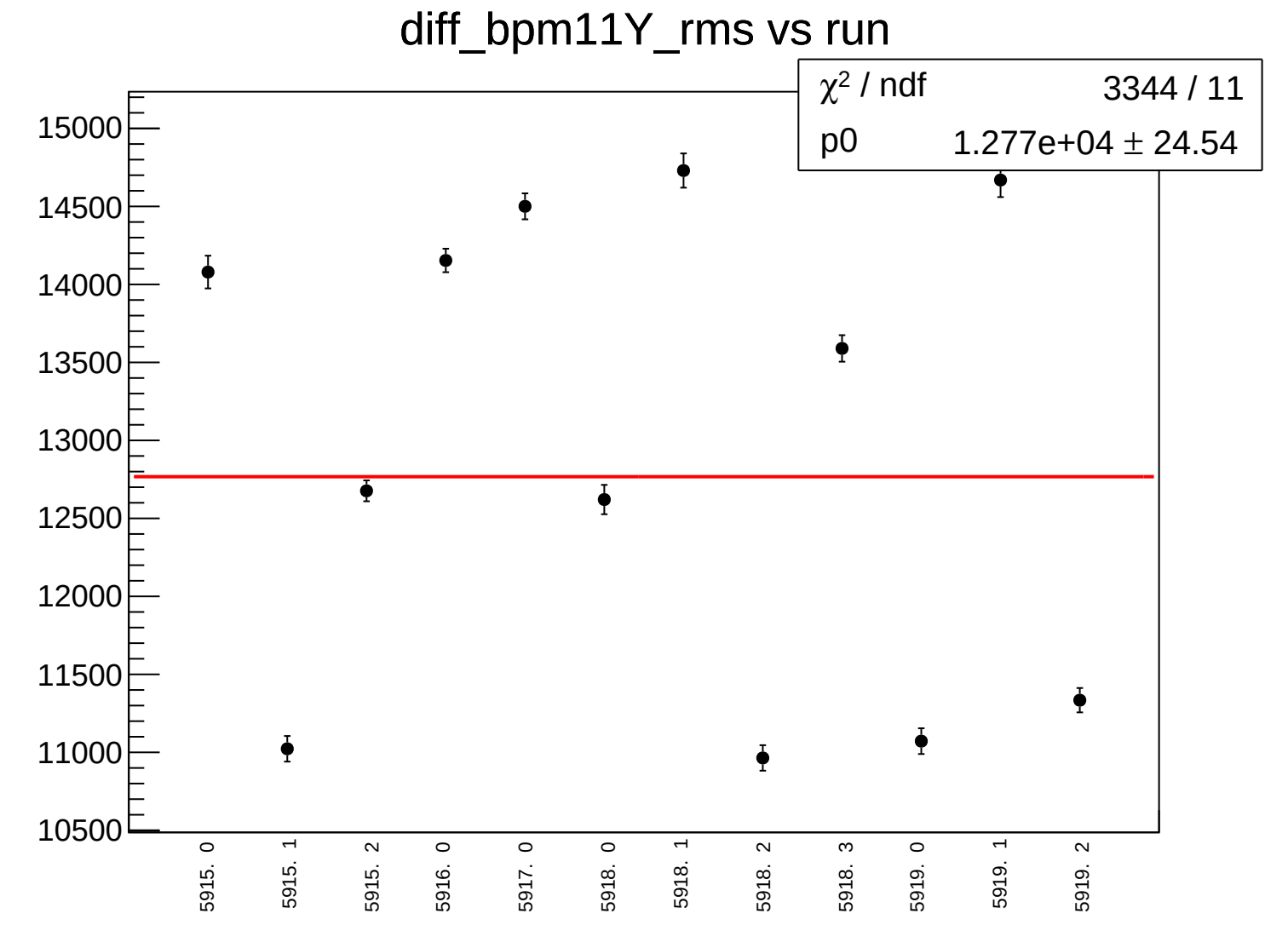

diff_bpm11X_mean vs run
χ² / ndf 19 / 11
p0 −46.03 ± 31.29
400
300
200
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.66
Std Dev 4.006
3
2
1
0
−1
−2

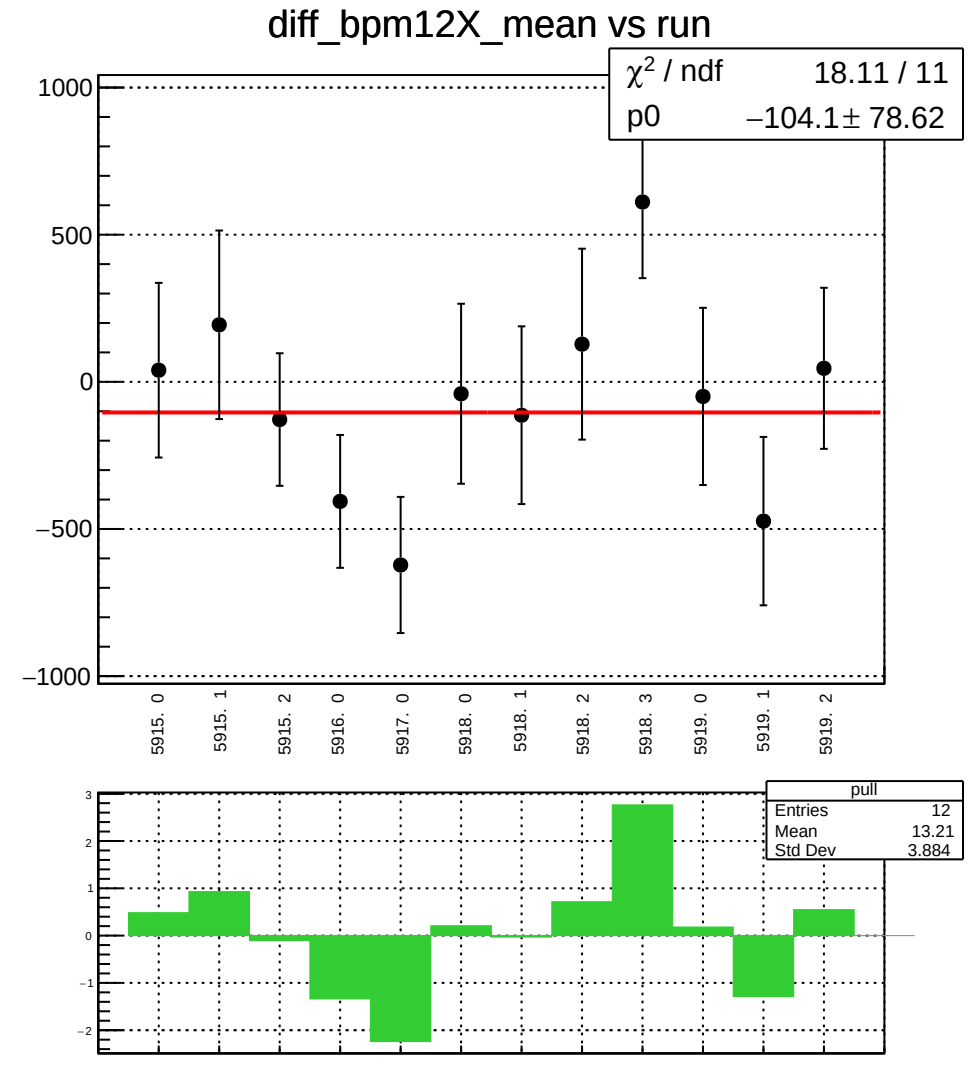

pull1D
Entries 12
Mean 0.06695
Std Dev 1.256
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

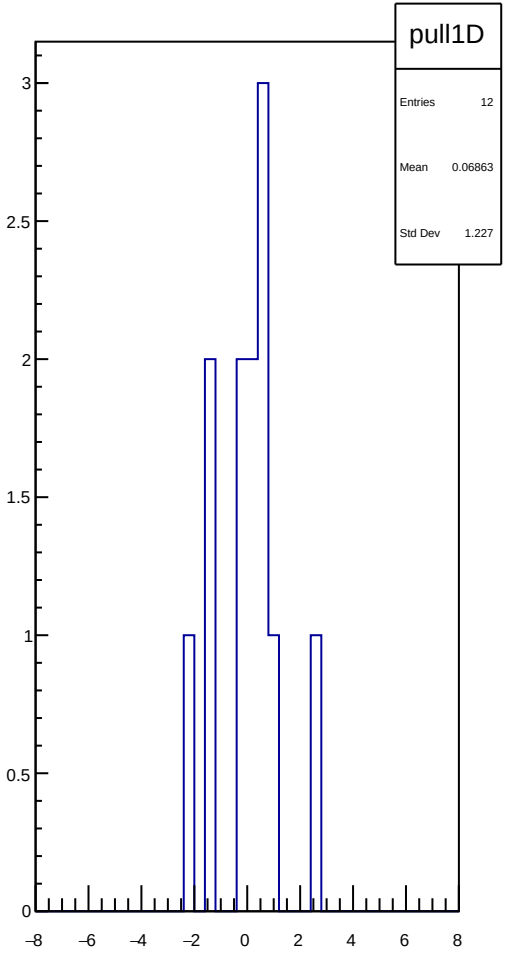

diff_bpm11X_rms vs run
χ² / ndf 251 / 11
p0 1.158e+04 ± 22.13
12200
12000
11800
11600
11400
11200
11000
10800
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

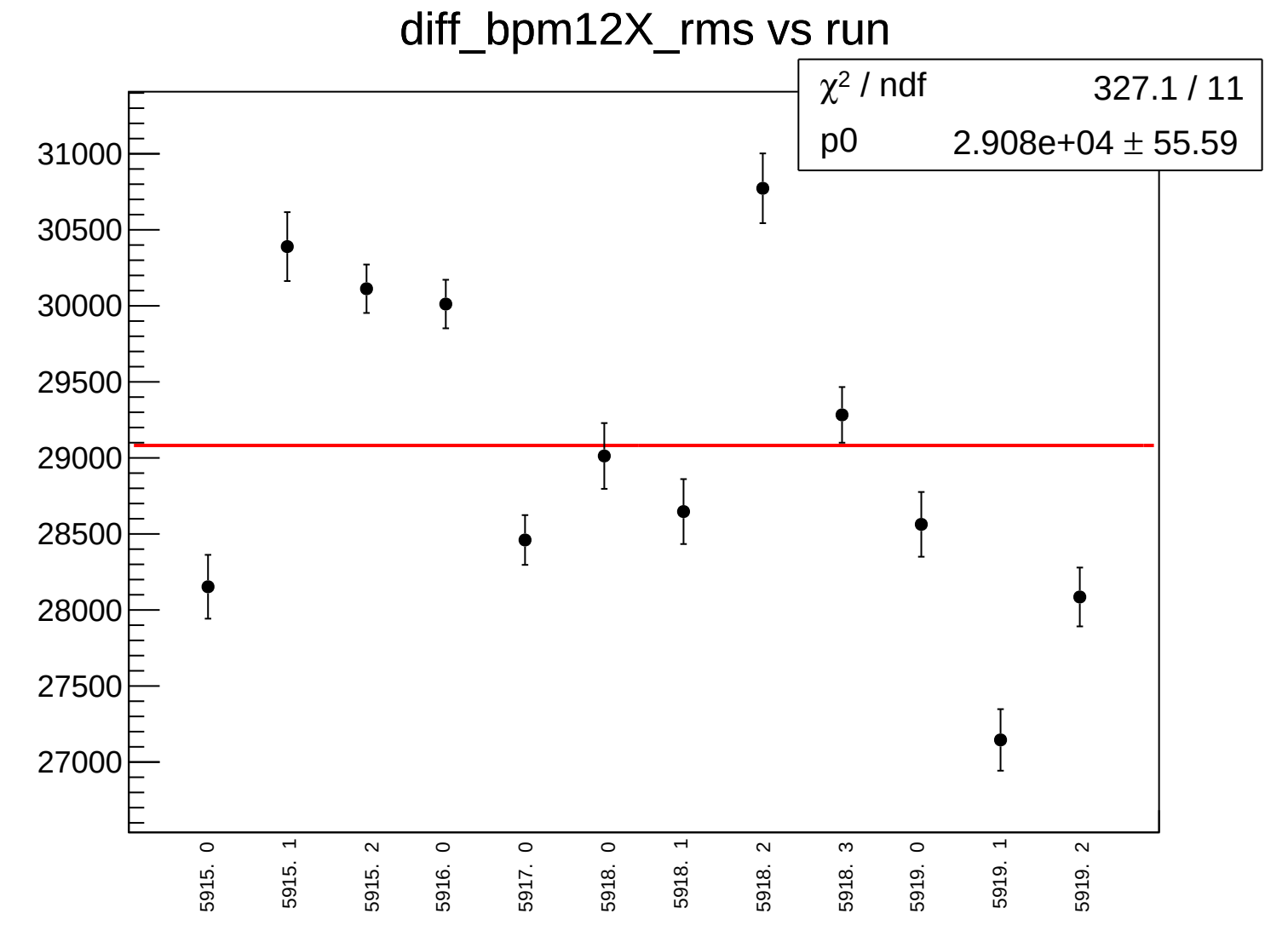

diff_bpm11Y_mean vs run
χ² / ndf 15.42 / 11
p0 17.94 ± 34.7
400
300
200
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.39
Std Dev 13.44
2
1
0
−1
−2

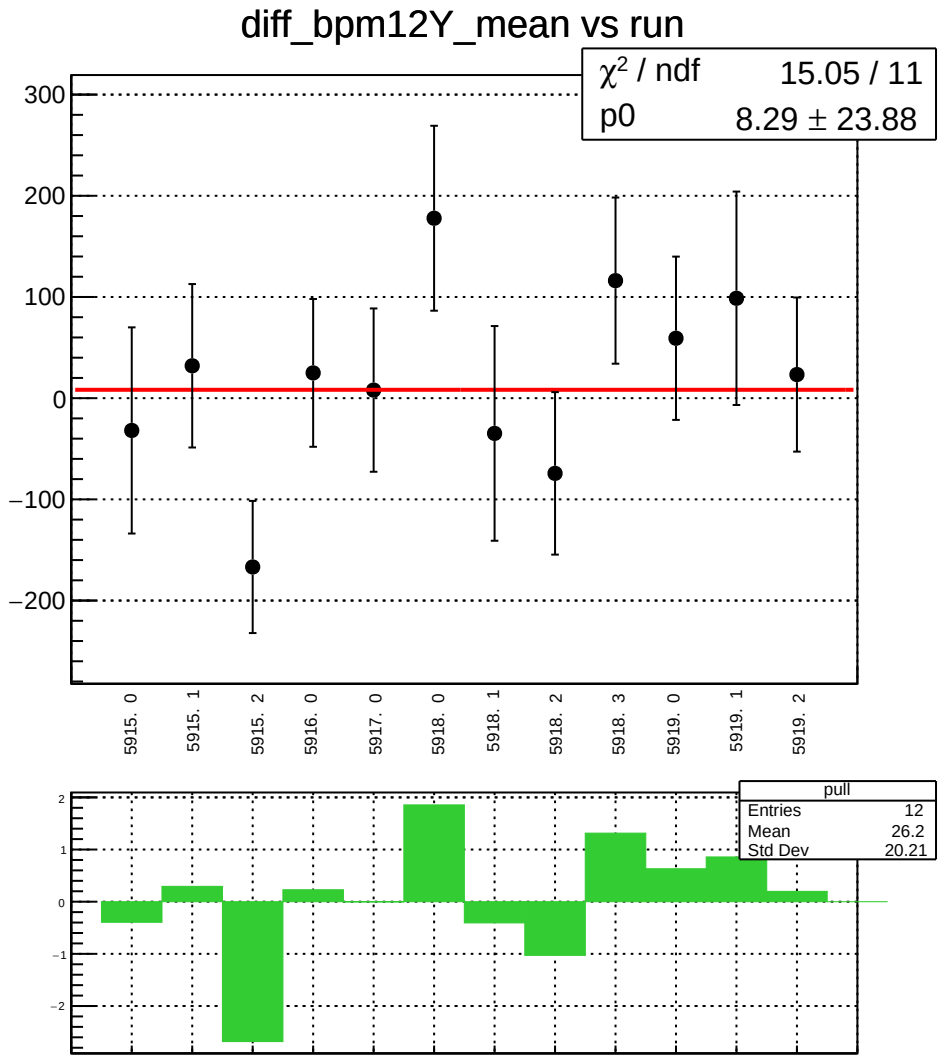

pull1D
Entries 12
Mean 0.07861
Std Dev 1.131
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

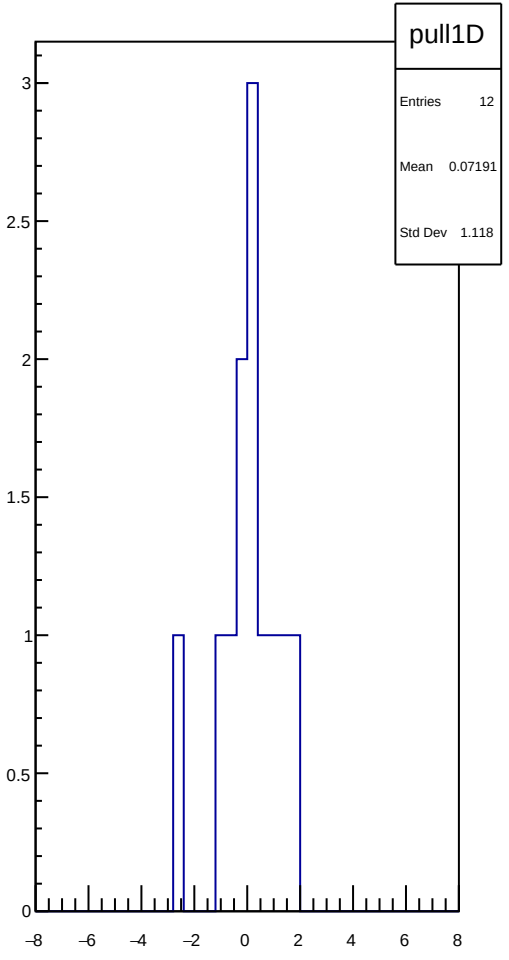

diff_bpm11Y_rms vs run
χ² / ndf 3344 / 11
p0 1.277e+04 ± 24.54
15000
14500
14000
13500
13000
12500
12000
11500
11000
10500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

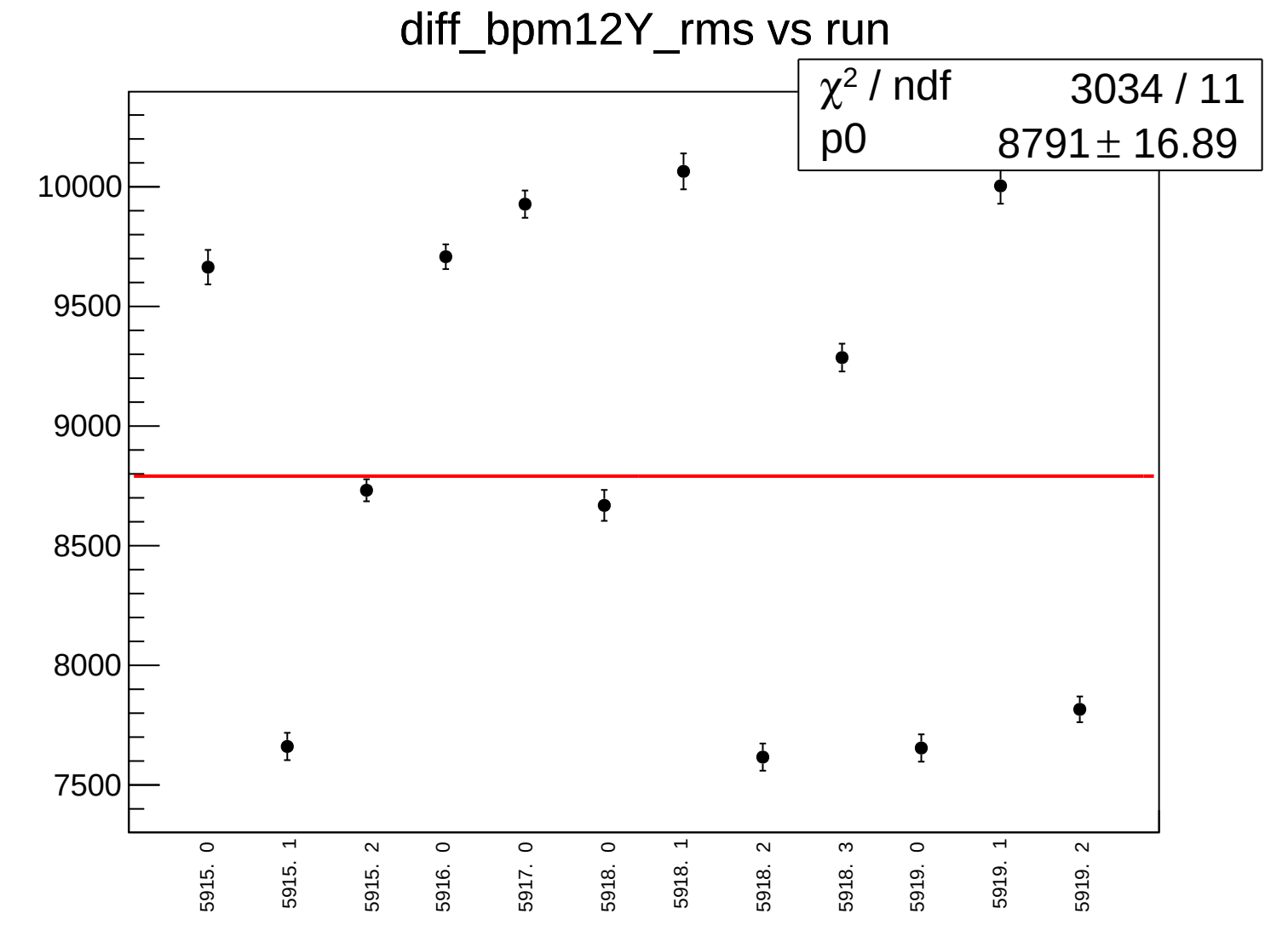

diff_bpm12X_mean vs run
χ² / ndf 18.11 / 11
p0 −104.1± 78.62
1000
500
0
−500
−1000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.21
Std Dev 3.884
3
2
1
0
−1
−2

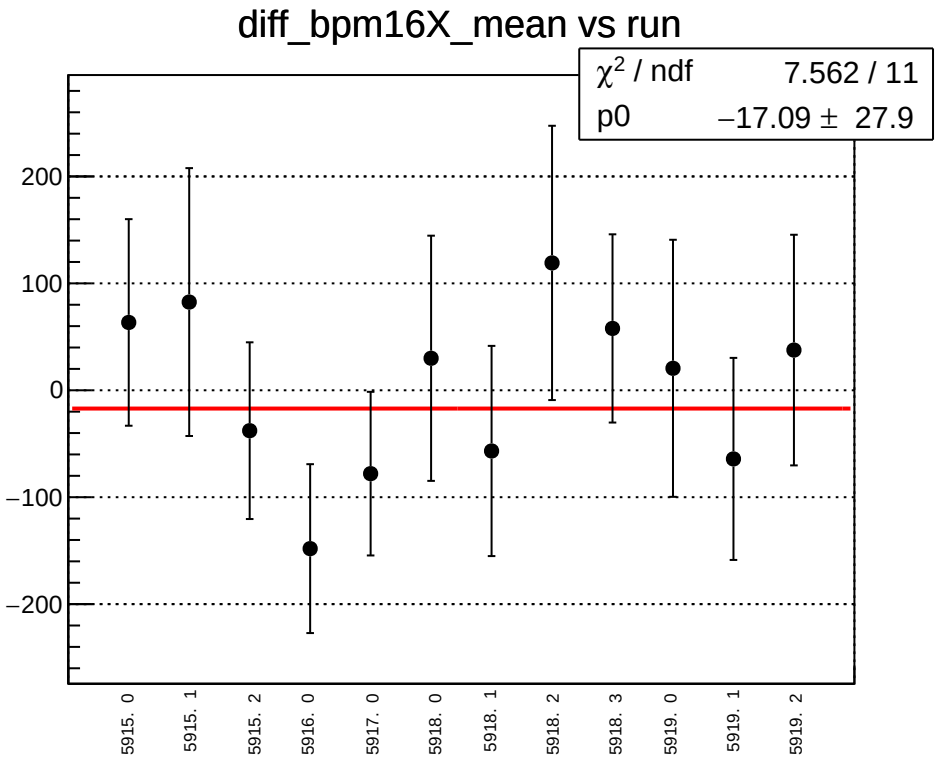

pull1D
Entries 12
Mean 0.06863
Std Dev 1.227
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

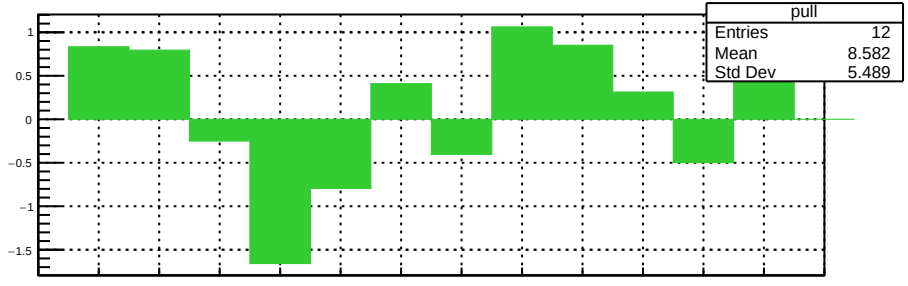

diff_bpm12X_rms vs run
χ² / ndf 327.1 / 11
p0 2.908e+04 ± 55.59
31000
30500
30000
29500
29000
28500
28000
27500
27000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

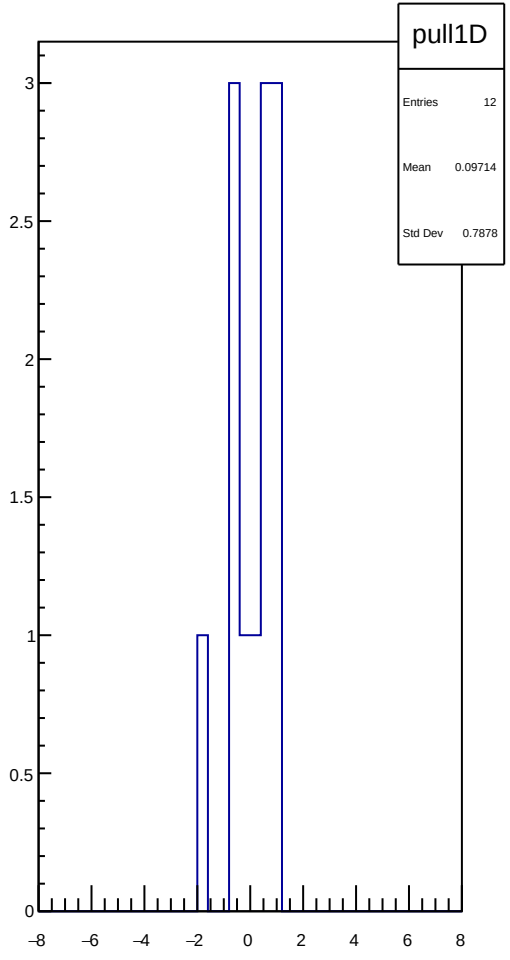

diff_bpm12Y_mean vs run
χ² / ndf 15.05 / 11
p0 8.29 ± 23.88
300
200
100
0
−100
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 26.2
Std Dev 20.21
2
1
0
−1
−2

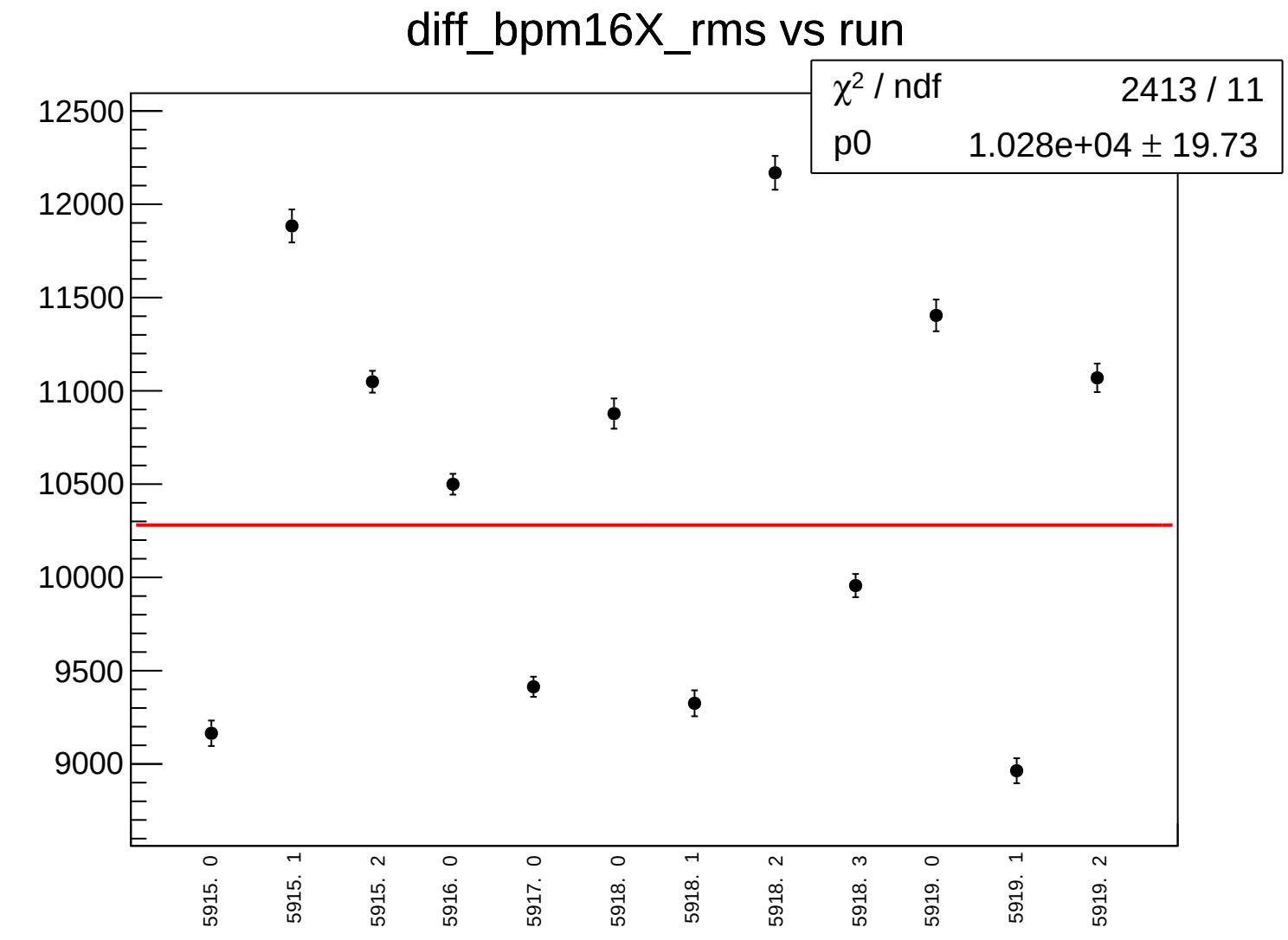

pull1D
Entries 12
Mean 0.07191
Std Dev 1.118
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

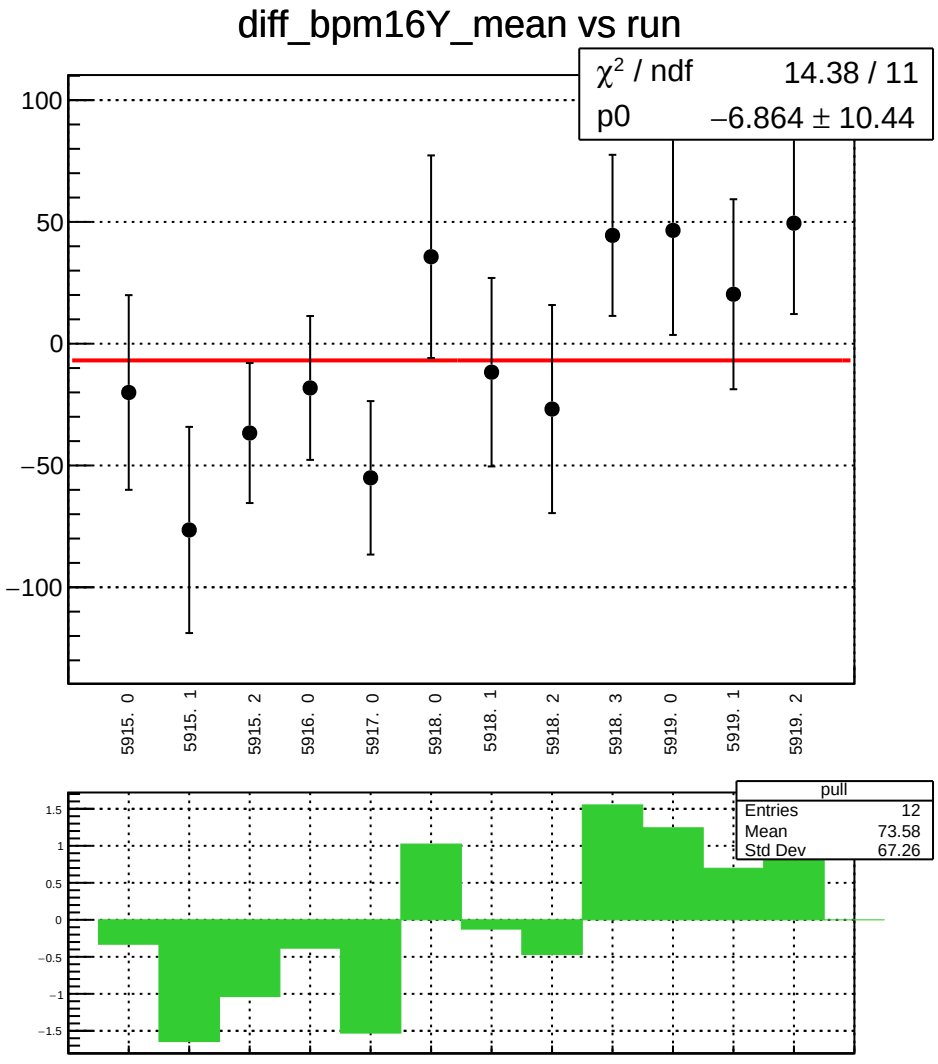

diff_bpm12Y_rms vs run
χ² / ndf 3034 / 11
p0 8791 ± 16.89
10000
9500
9000
8500
8000
7500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

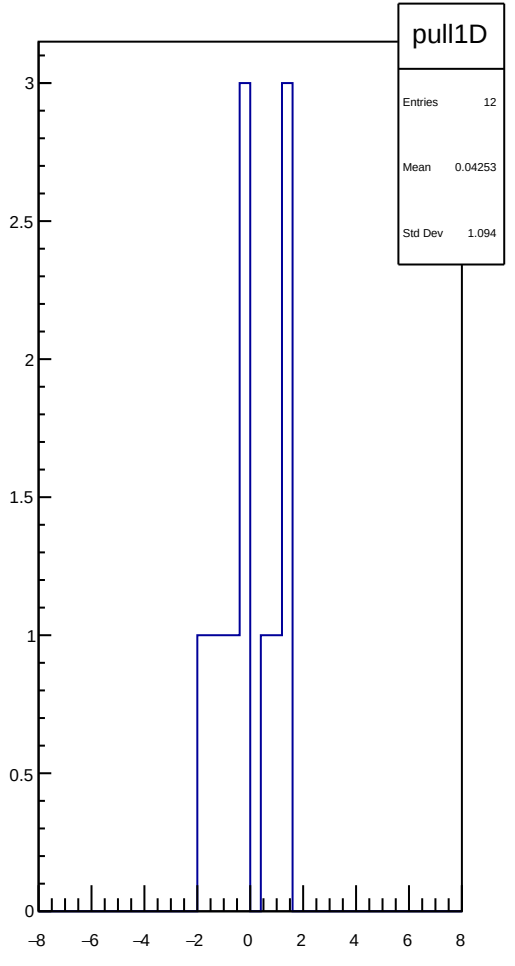

diff_bpm16X_mean vs run
χ² / ndf 7.562 / 11
p0 −17.09 ± 27.9
200
100
0
−100
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

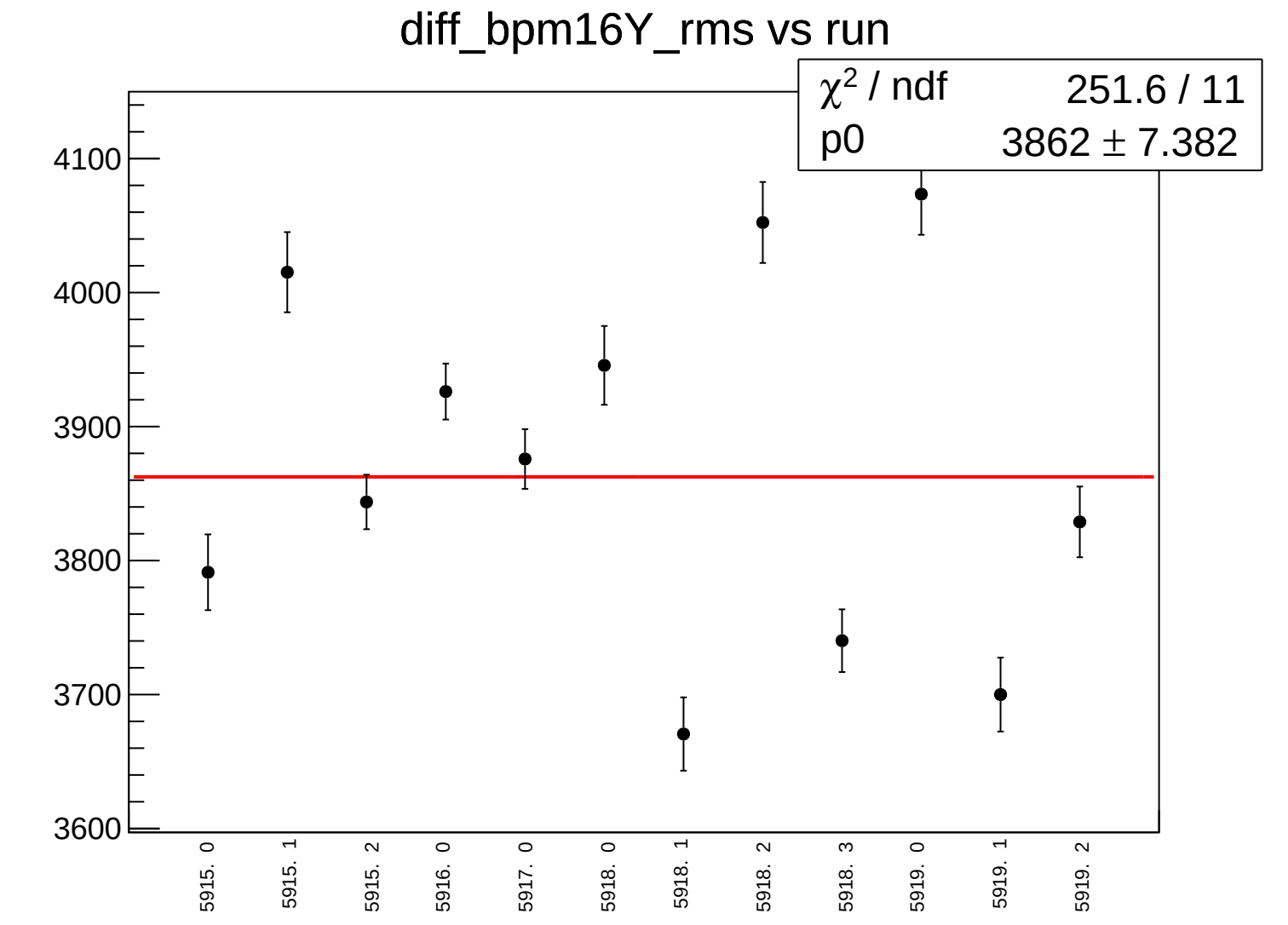

pull
Entries 12
Mean 8.582
Std Dev 5.489
1
0.5
0
−0.5
−1
−1.5

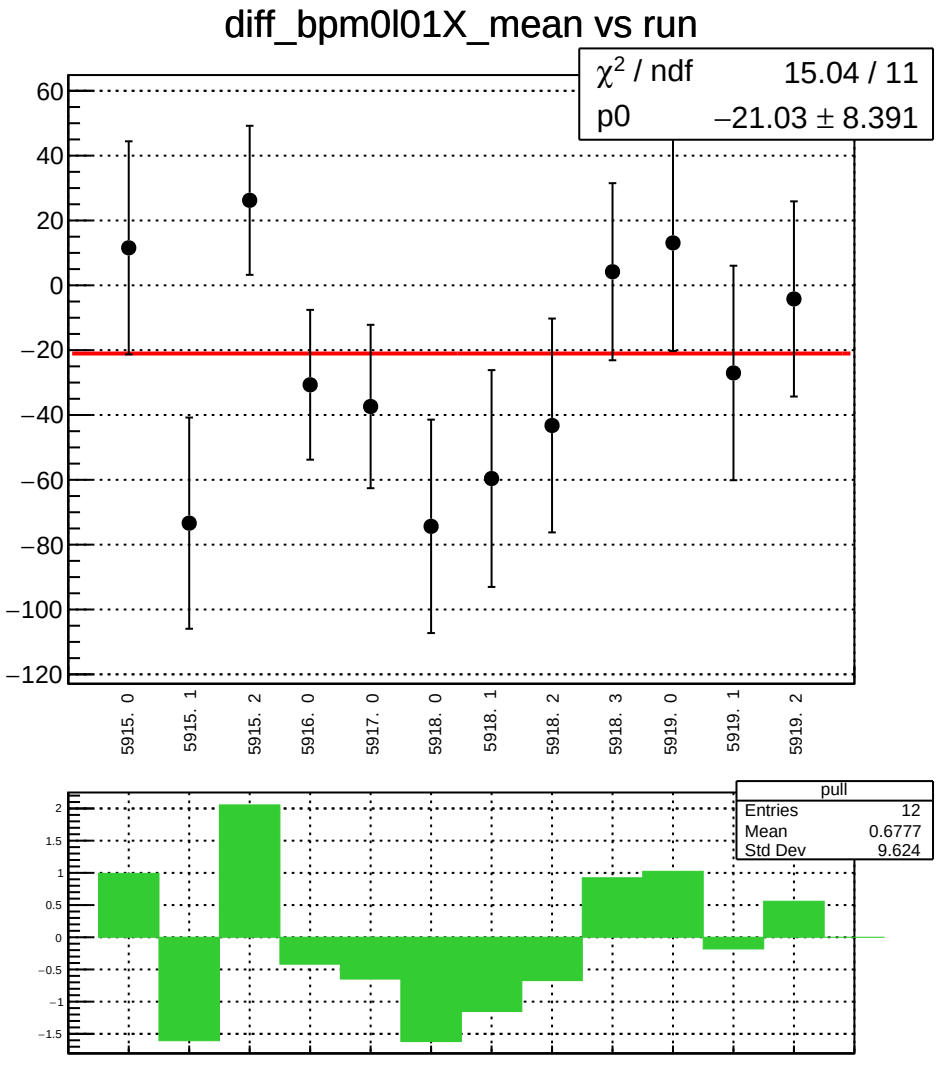

pull1D
Entries 12
Mean 0.09714
Std Dev 0.7878
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

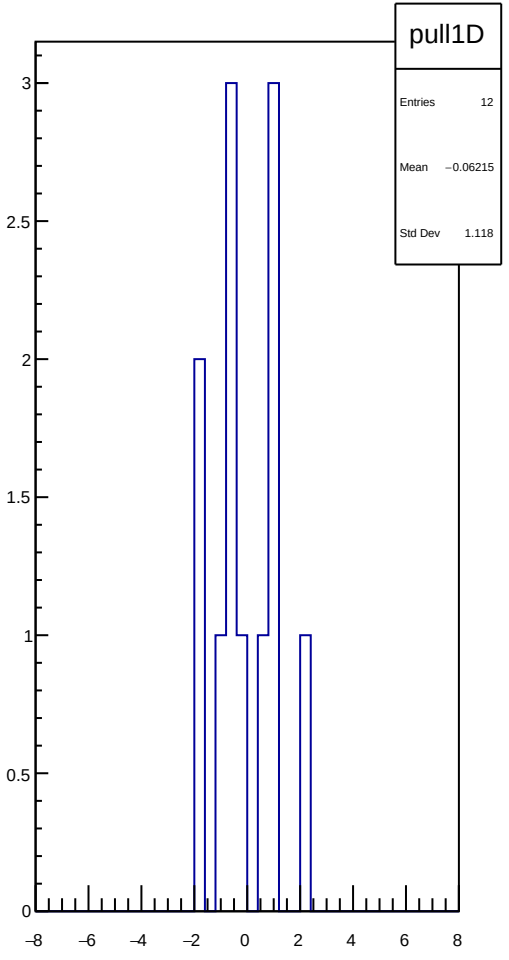

diff_bpm16X_rms vs run
χ² / ndf 2413 / 11
p0 1.028e+04 ± 19.73
12500
12000
11500
11000
10500
10000
9500
9000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

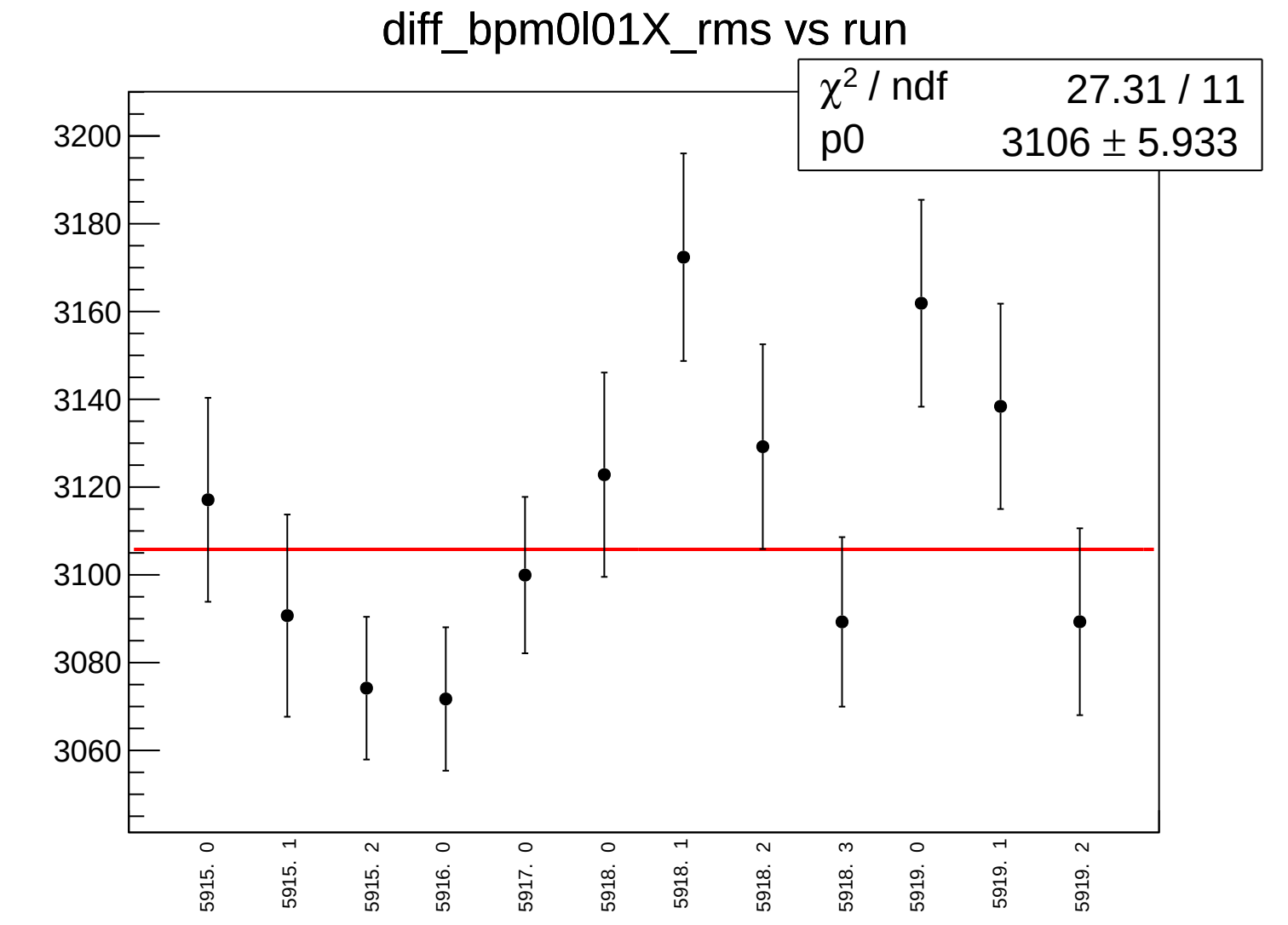

diff_bpm16Y_mean vs run
χ² / ndf 14.38 / 11
p0 −6.864 ± 10.44
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 73.58
Std Dev 67.26
1.5
1
0.5
0
−0.5
−1
−1.5

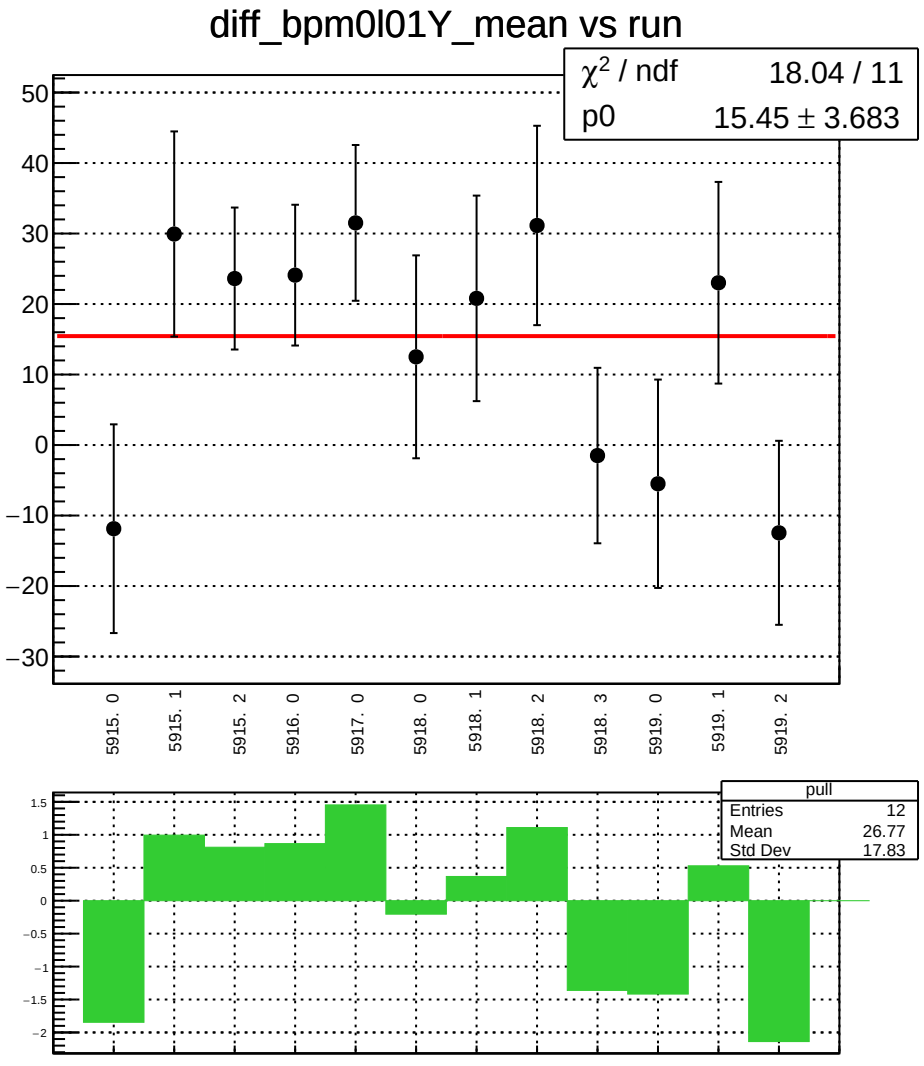

pull1D
Entries 12
Mean 0.04253
Std Dev 1.094
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

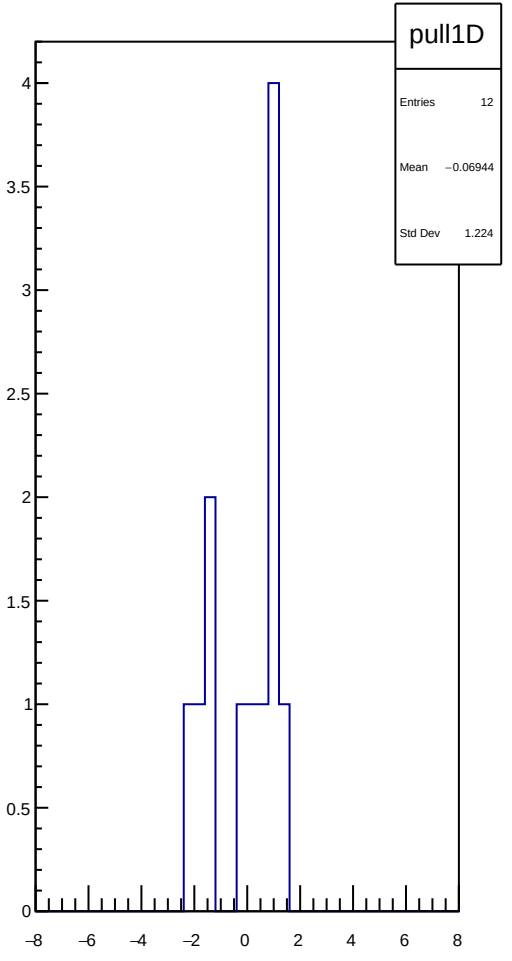

diff_bpm16Y_rms vs run
χ² / ndf 251.6 / 11
p0 3862 ± 7.382
4100
4000
3900
3800
3700
3600
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

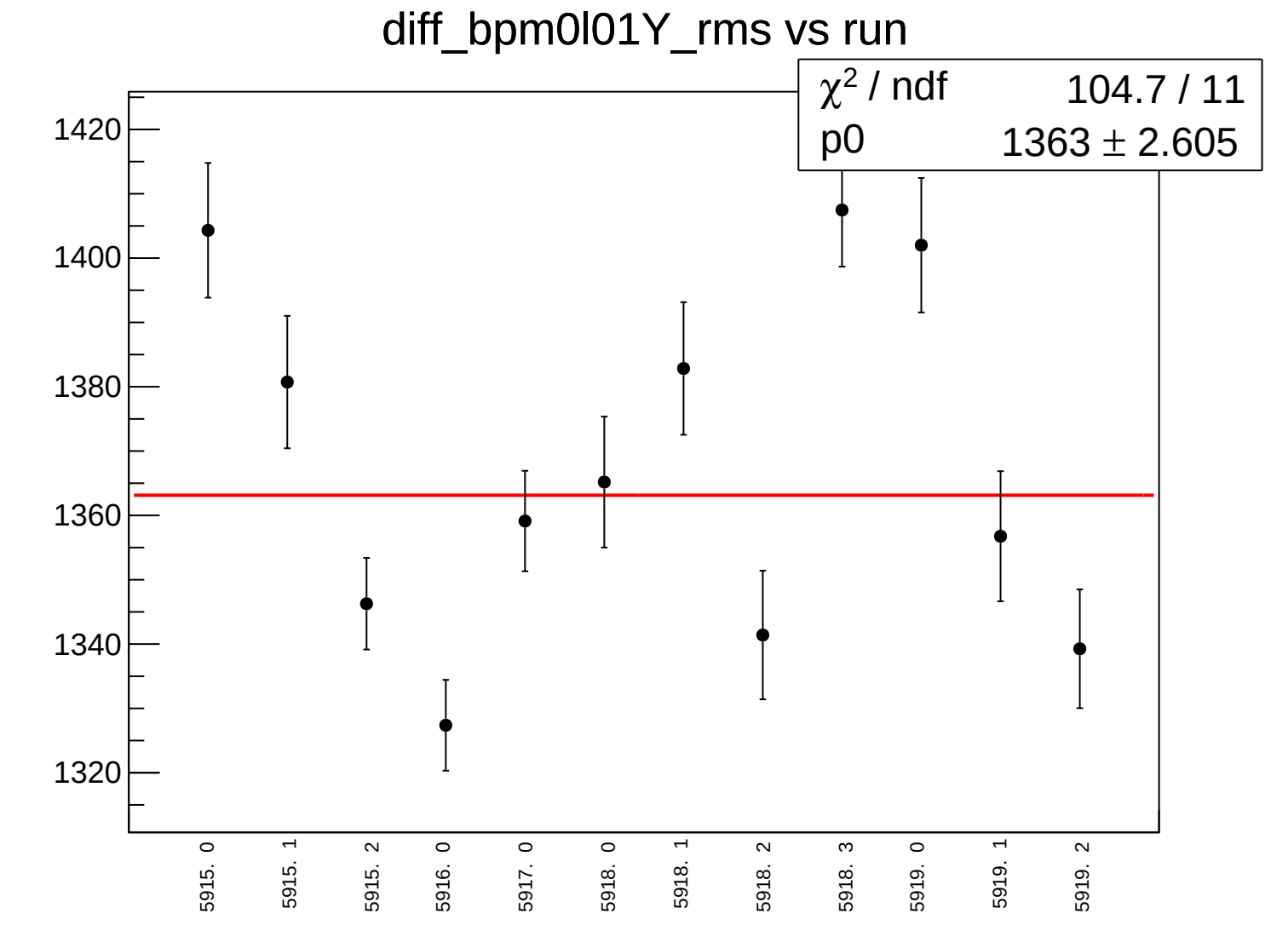

diff_bpm0l01X_mean vs run
χ² / ndf 15.04 / 11
p0 −21.03 ± 8.391
60
40
20
0
−20
−40
−60
−80
−100
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.6777
Std Dev 9.624
2
1.5
1
0.5
0
−0.5
−1
−1.5

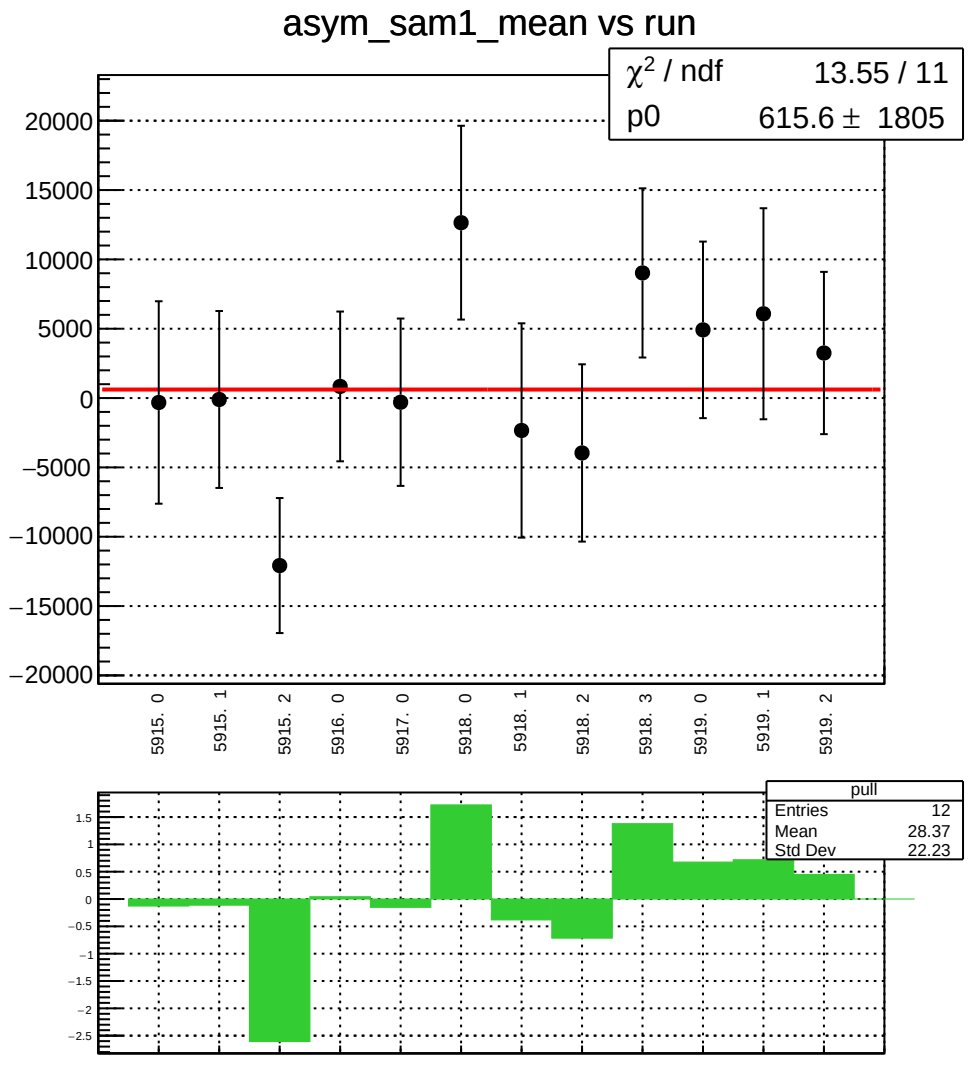

pull1D
Entries 12
Mean −0.06215
Std Dev 1.118
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

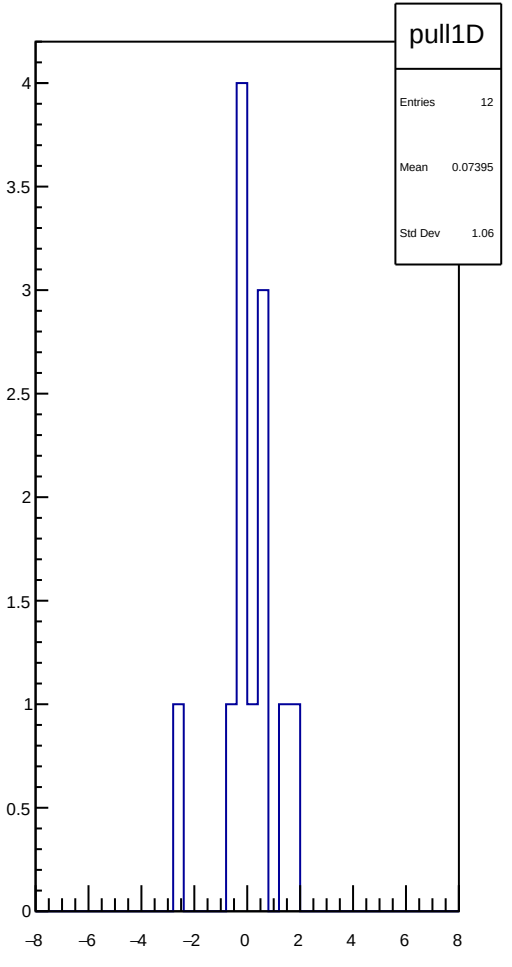

diff_bpm0l01X_rms vs run
χ² / ndf 27.31 / 11
p0 3106 ± 5.933
3200
3180
3160
3140
3120
3100
3080
3060
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

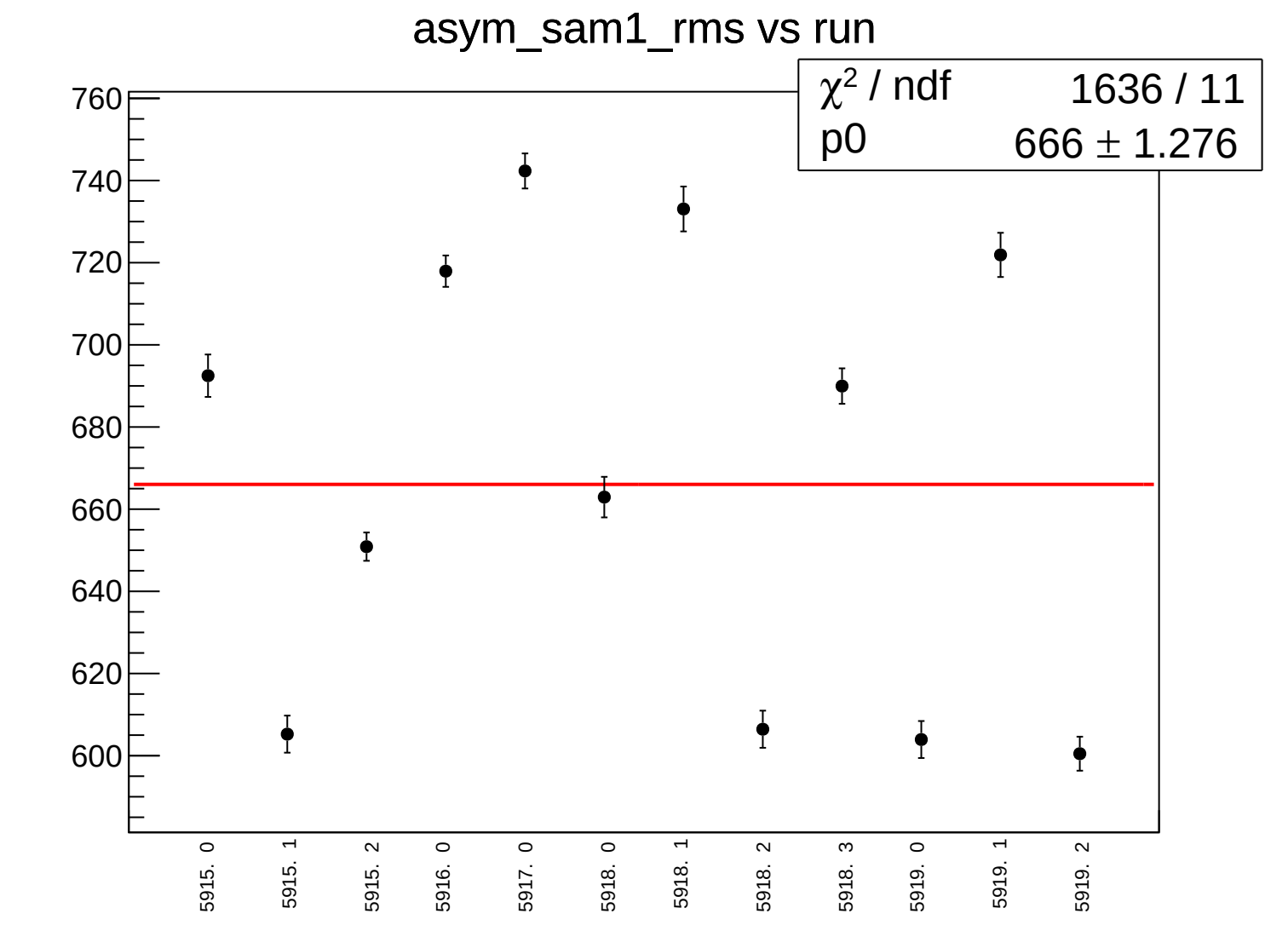

diff_bpm0l01Y_mean vs run
χ² / ndf 18.04 / 11
p0 15.45 ± 3.683
50
40
30
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 26.77
Std Dev 17.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2

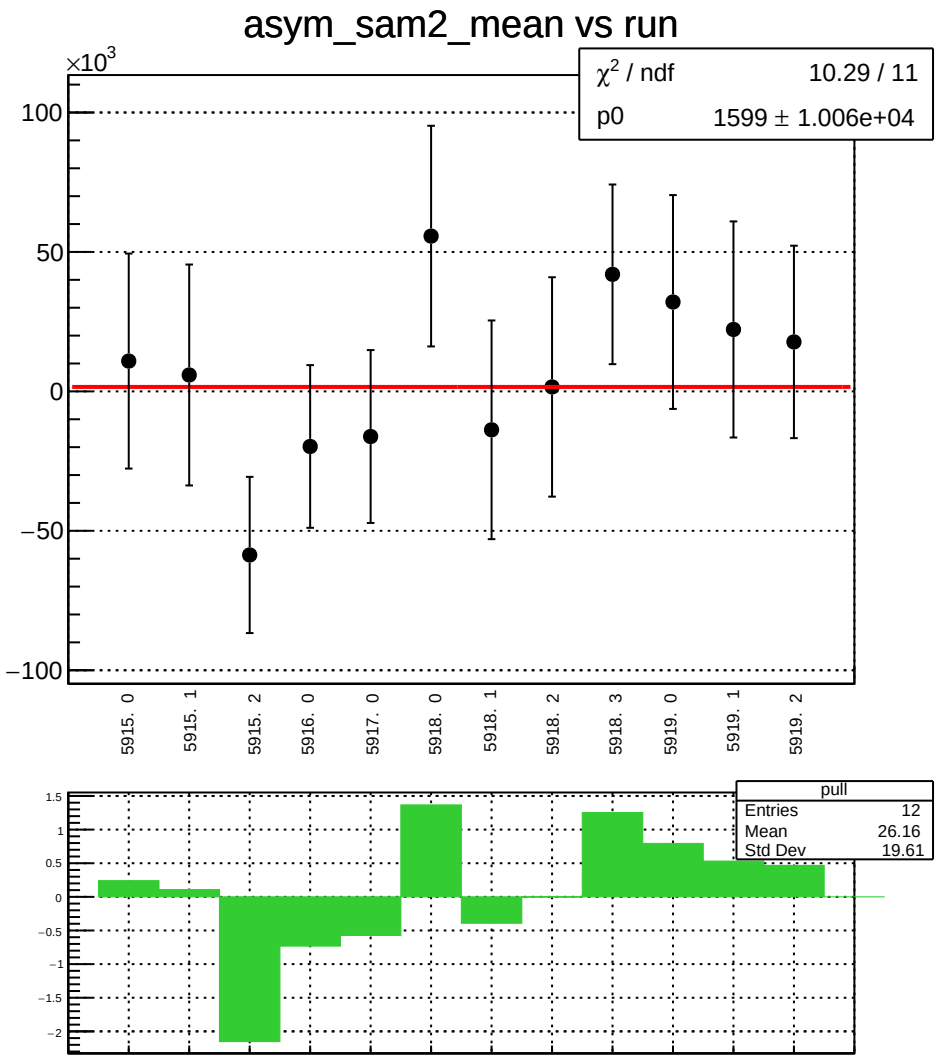

pull1D
Entries 12
Mean −0.06944
Std Dev 1.224
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

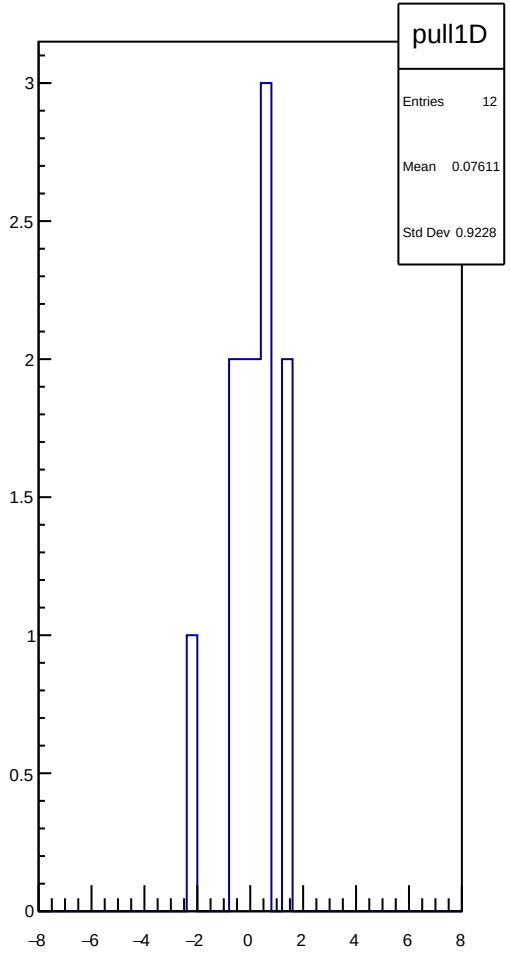

diff_bpm0l01Y_rms vs run
χ² / ndf 104.7 / 11
p0 1363 ± 2.605
1420
1400
1380
1360
1340
1320
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

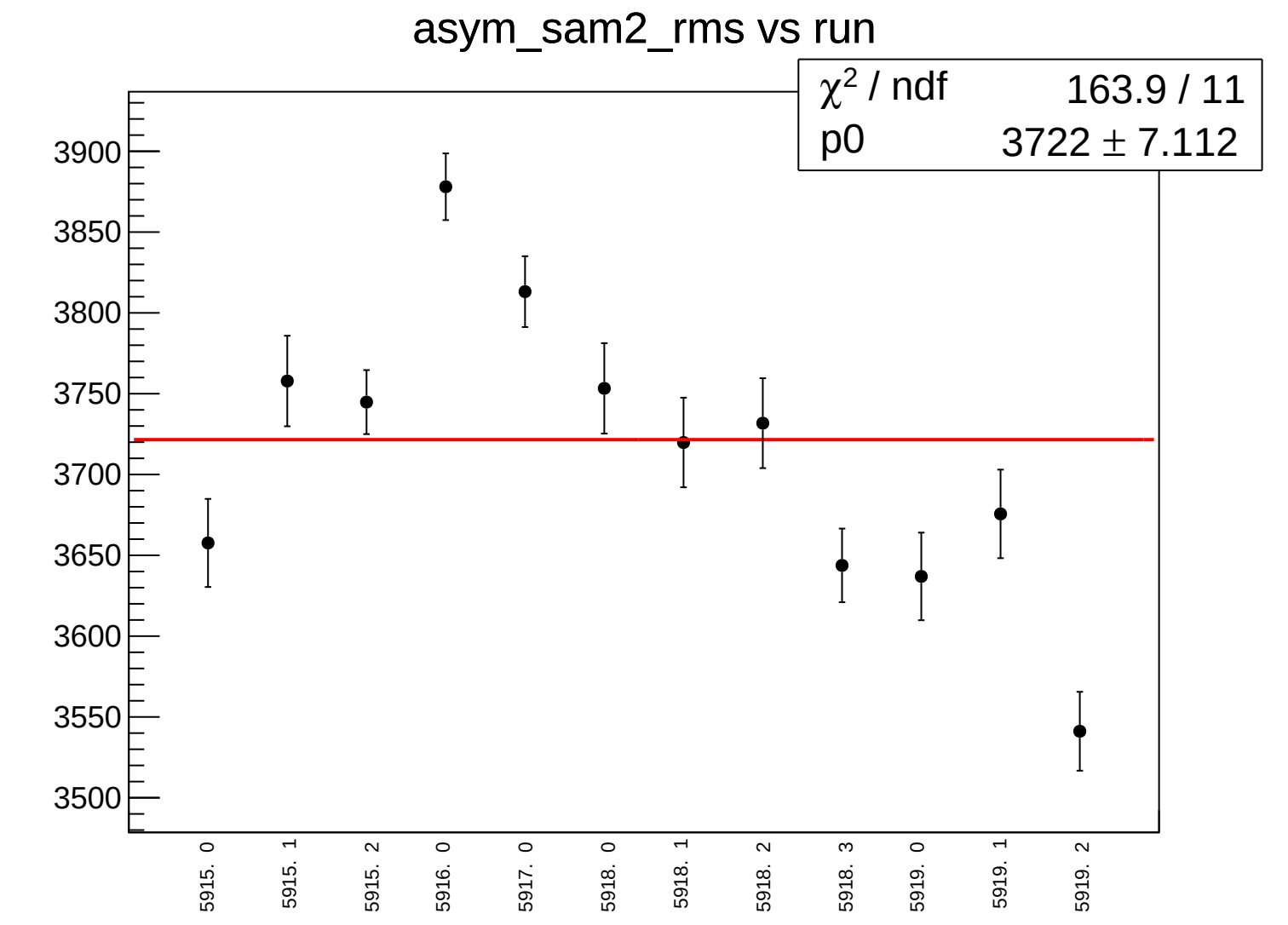

asym_sam1_mean vs run
χ² / ndf 13.55 / 11
p0 615.6 ± 1805
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.37
Std Dev 22.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

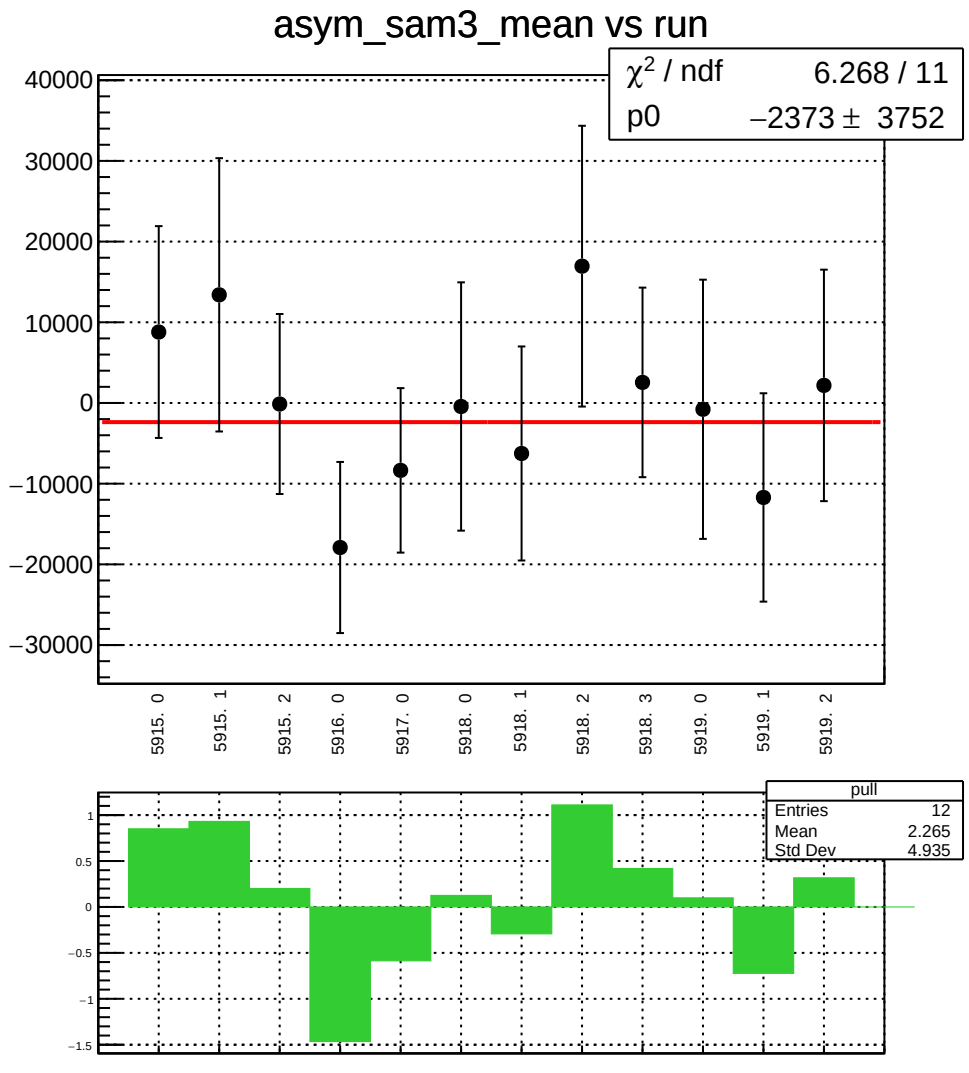

pull1D
Entries 12
Mean 0.07395
Std Dev 1.06
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

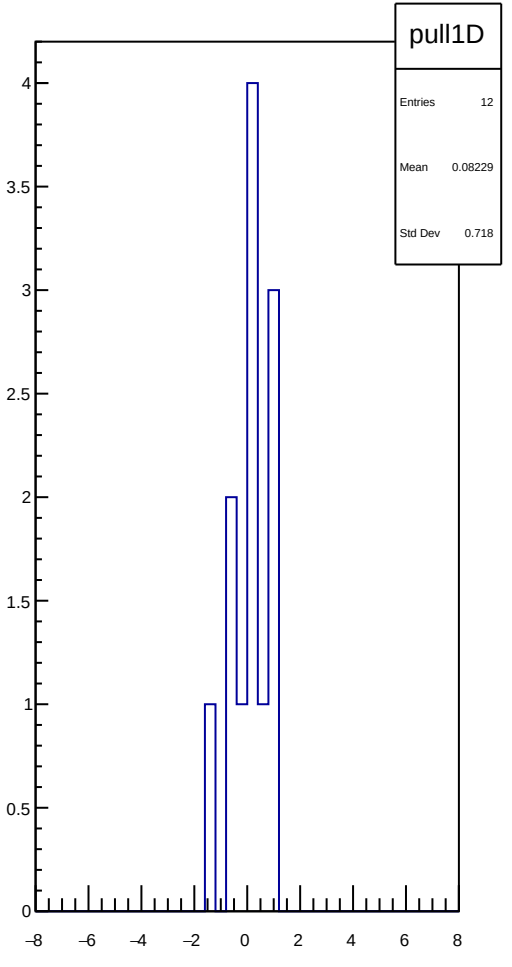

asym_sam1_rms vs run
χ² / ndf 1636 / 11
p0 666 ± 1.276
760
740
720
700
680
660
640
620
600
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

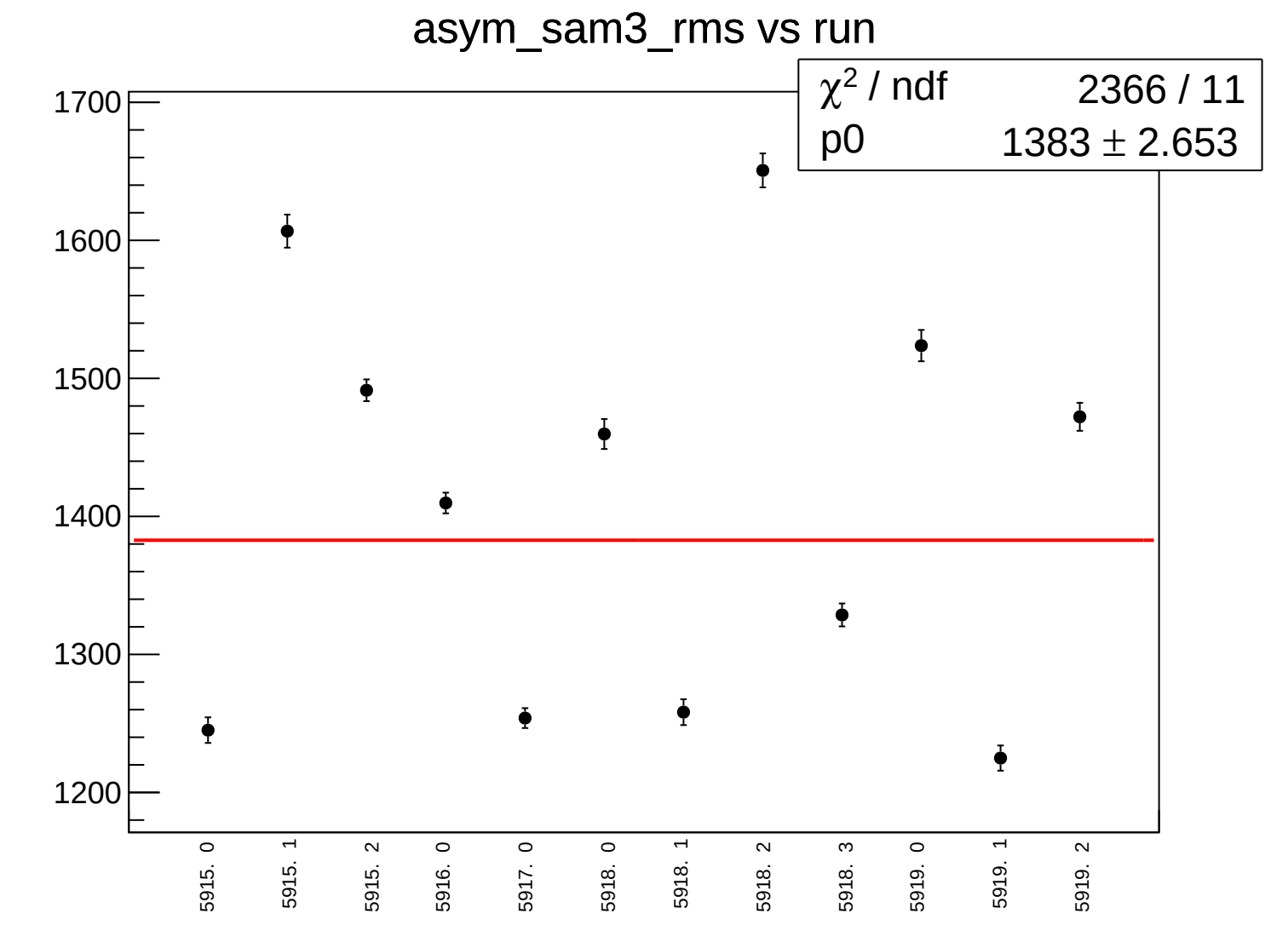

asym_sam2_mean vs run
×10^3
χ² / ndf 10.29 / 11
p0 1599 ± 1.006e+04
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 26.16
Std Dev 19.61
1.5
1
0.5
0
−0.5
−1
−1.5
−2

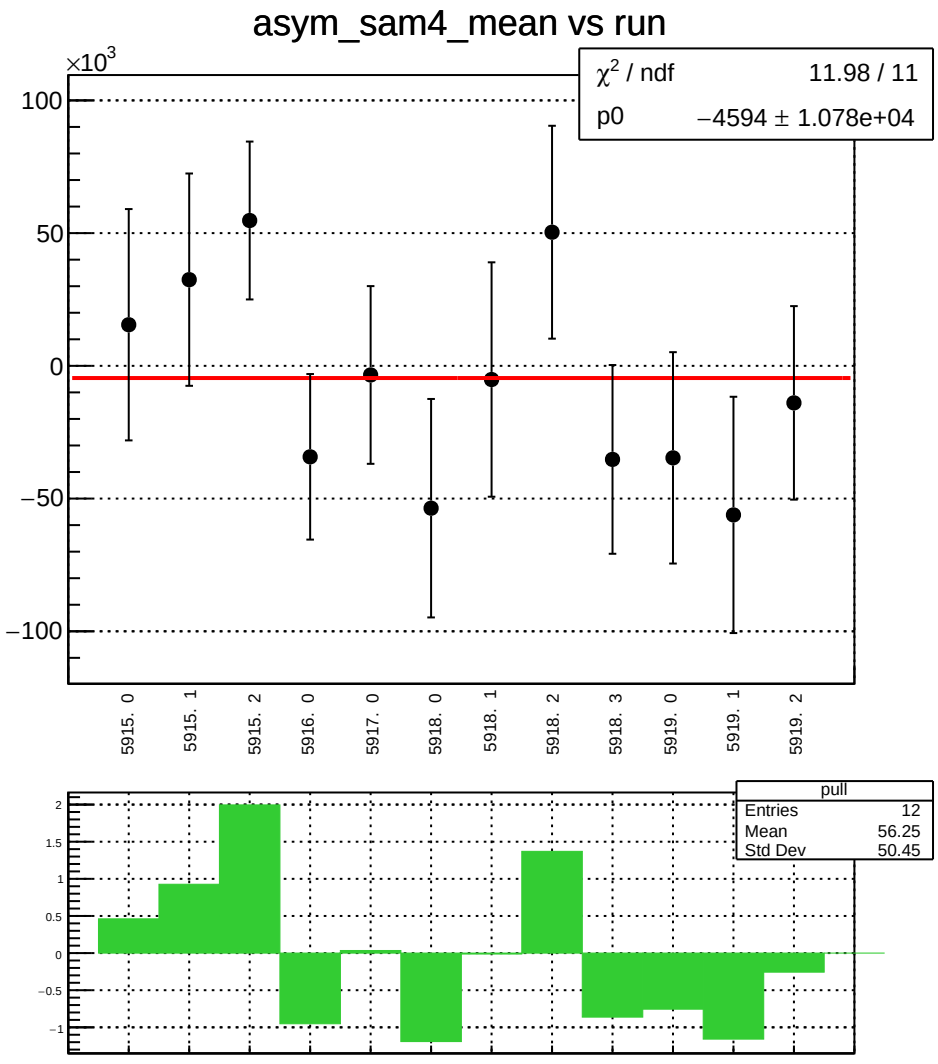

pull1D
Entries 12
Mean 0.07611
Std Dev 0.9228
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

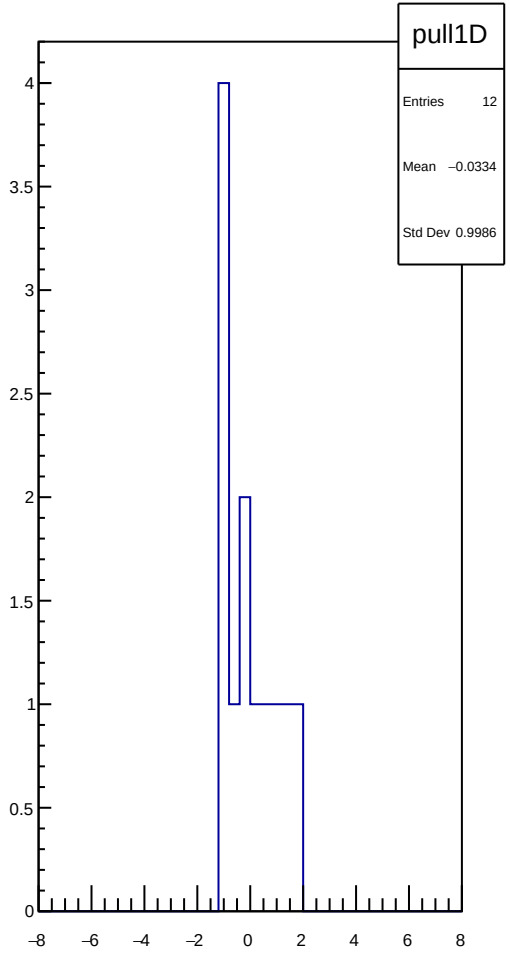

asym_sam2_rms vs run
χ² / ndf 163.9 / 11
p0 3722 ± 7.112
3900
3850
3800
3750
3700
3650
3600
3550
3500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

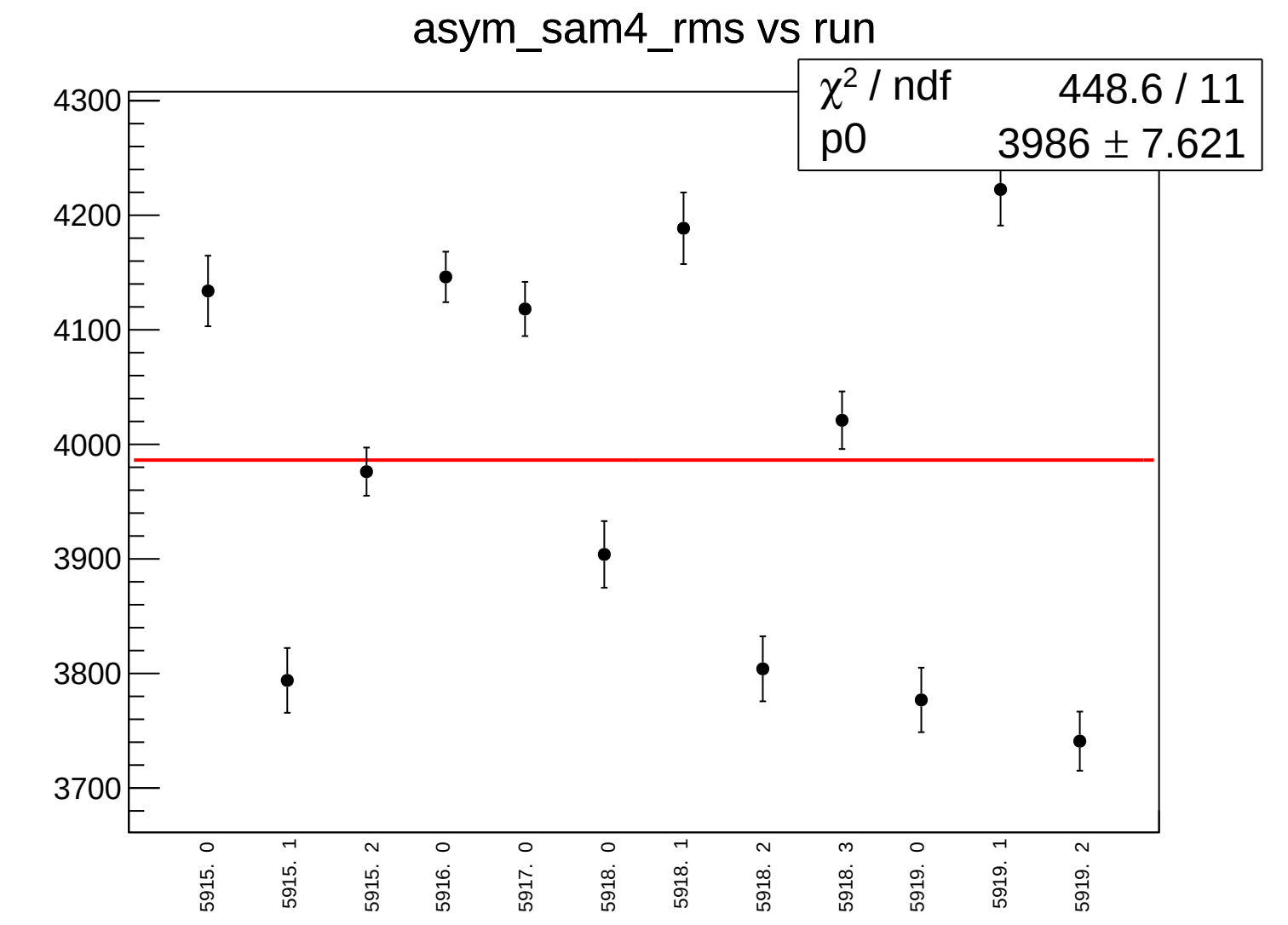

asym_sam3_mean vs run
χ² / ndf 6.268 / 11
p0 −2373 ± 3752
40000
30000
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 2.265
Std Dev 4.935
1
0.5
0
−0.5
−1
−1.5

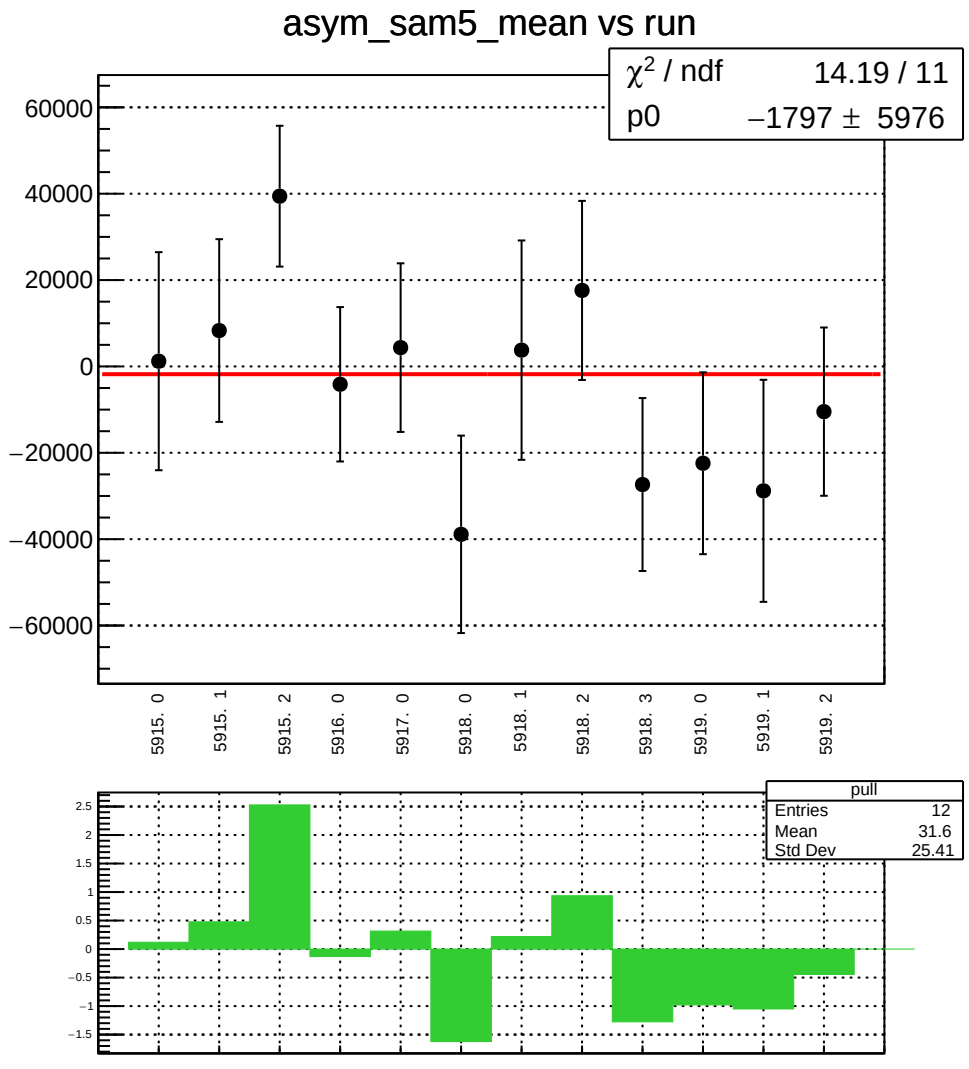

pull1D
Entries 12
Mean 0.08229
Std Dev 0.718
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

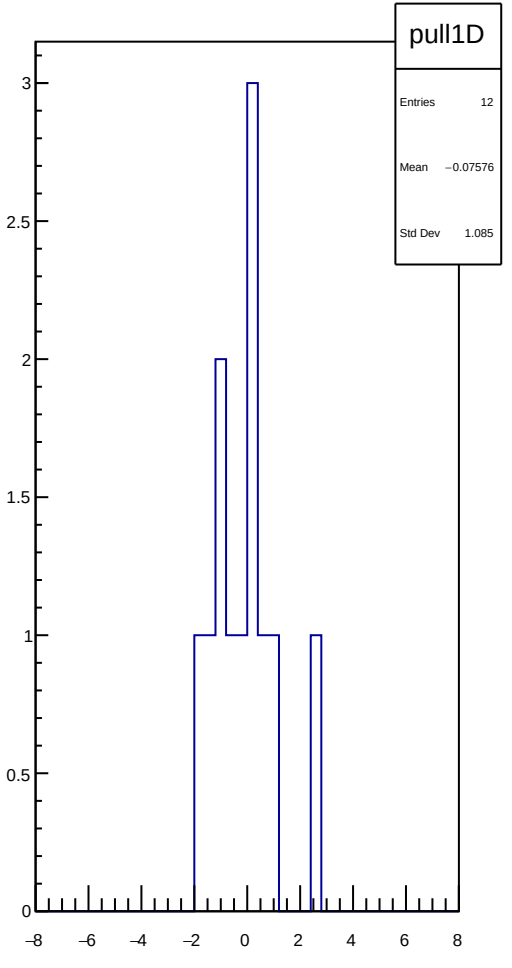

asym_sam3_rms vs run
χ² / ndf 2366 / 11
p0 1383 ± 2.653
1700
1600
1500
1400
1300
1200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

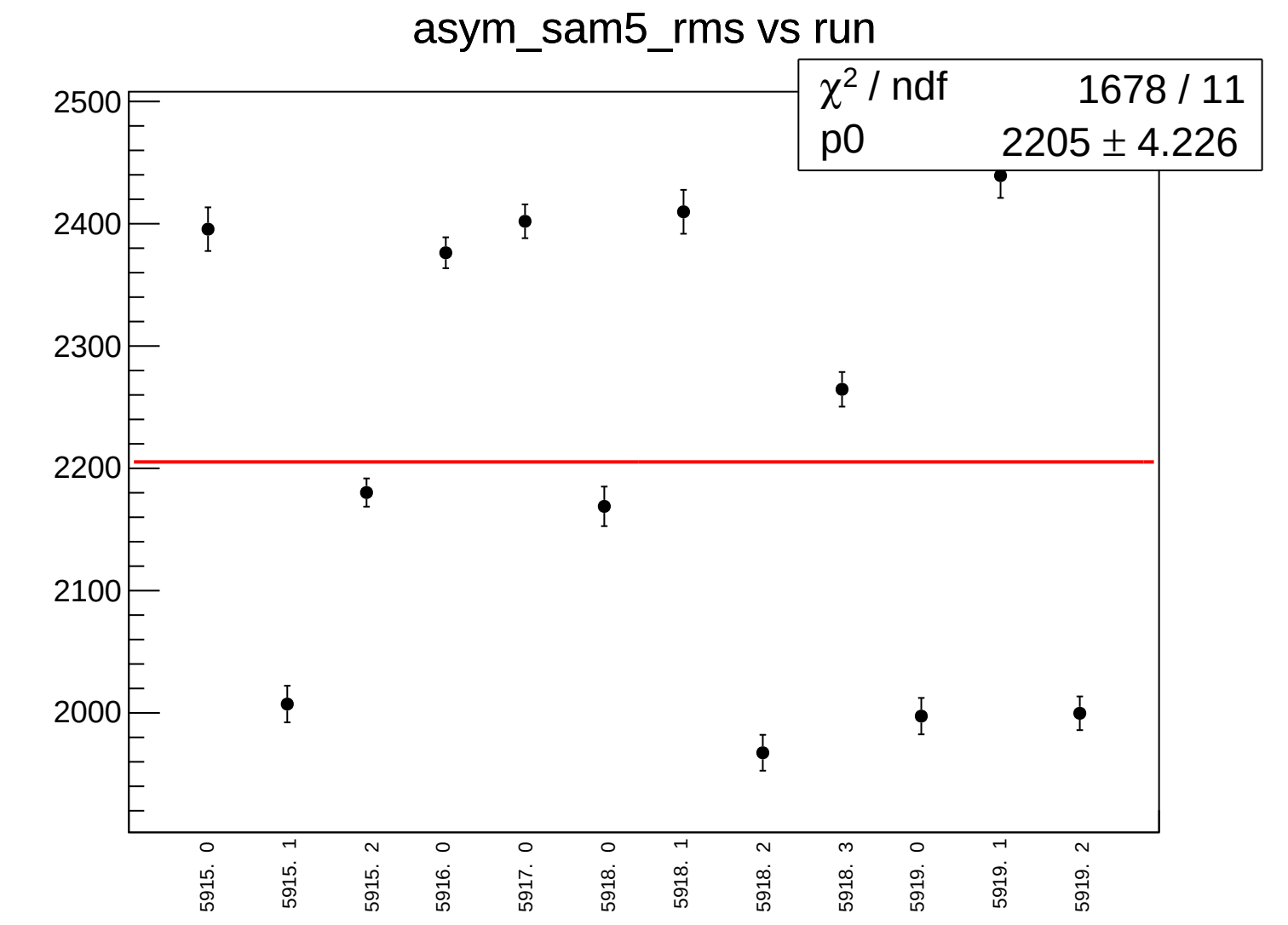

asym_sam4_mean vs run
×10^3
χ² / ndf 11.98 / 11
p0 −4594 ± 1.078e+04
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 56.25
Std Dev 50.45
2
1.5
1
0.5
0
−0.5
−1

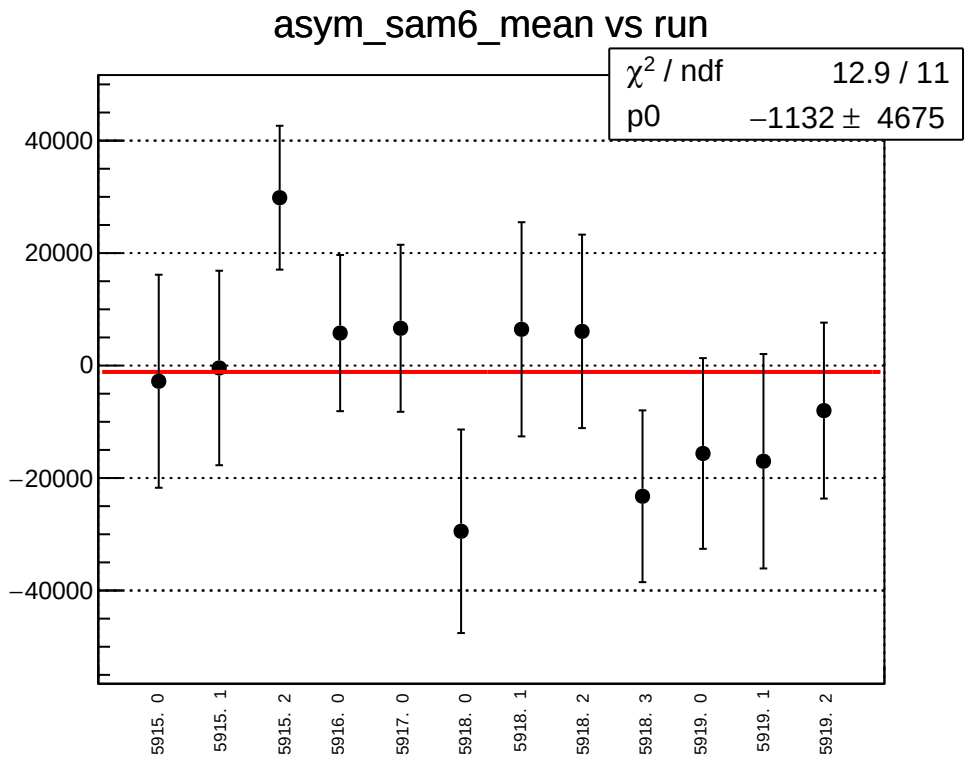

pull1D
Entries 12
Mean −0.0334
Std Dev 0.9986
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

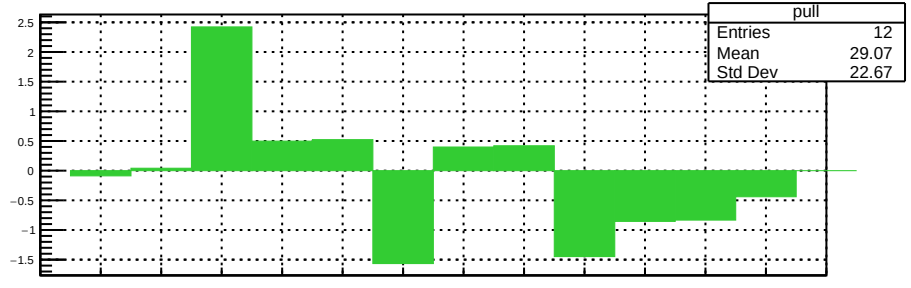

asym_sam4_rms vs run
χ² / ndf 448.6 / 11
p0 3986 ± 7.621
4300
4200
4100
4000
3900
3800
3700
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

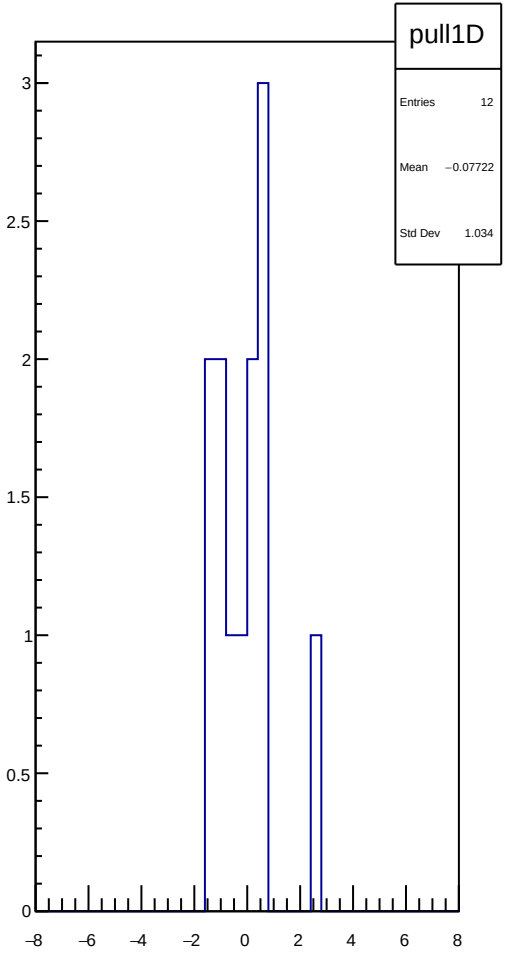

asym_sam5_mean vs run
χ² / ndf 14.19 / 11
p0 −1797 ± 5976
60000
40000
20000
0
−20000
−40000
−60000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 31.6
Std Dev 25.41
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

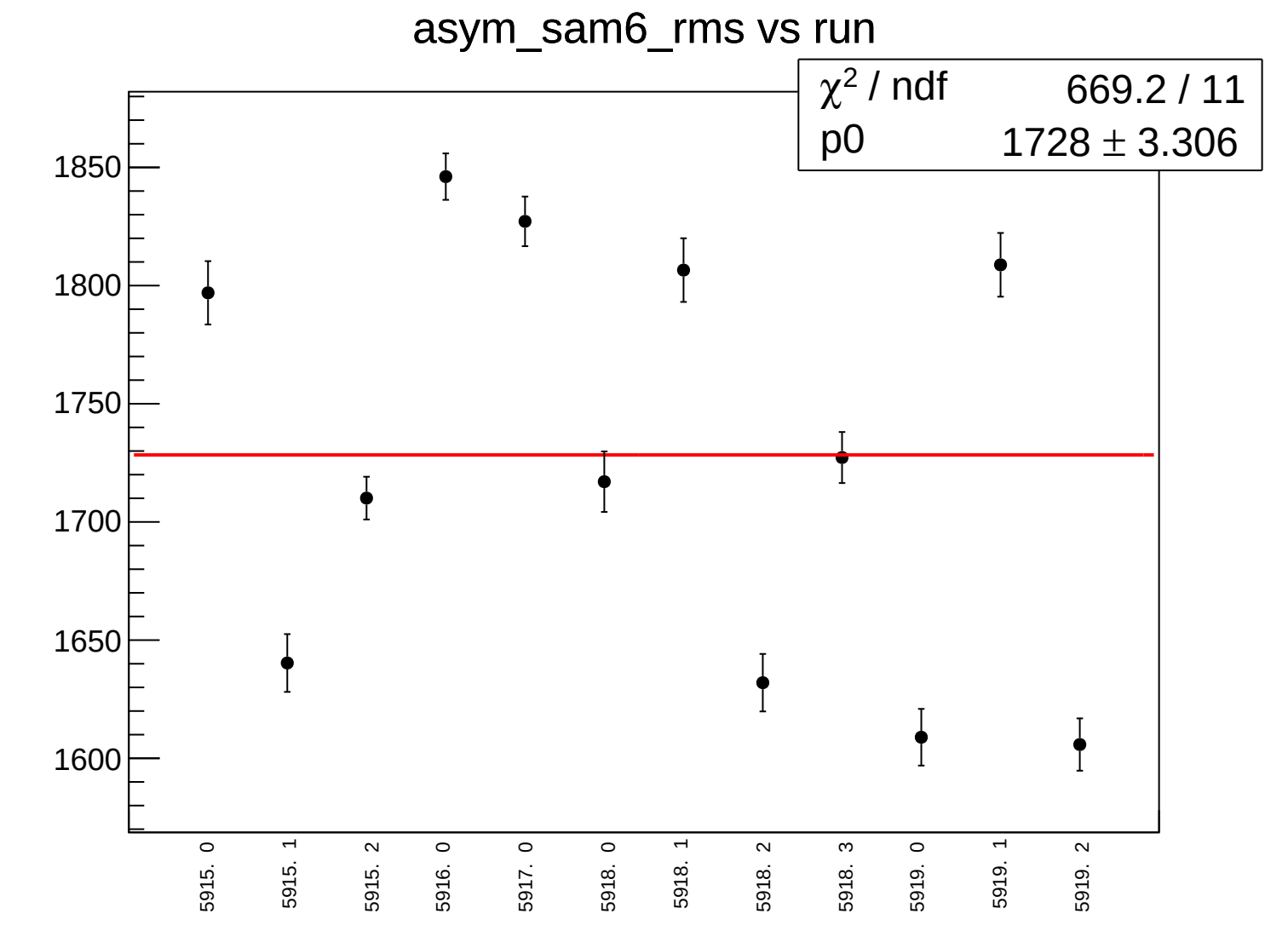

pull1D
Entries 12
Mean −0.07576
Std Dev 1.085
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

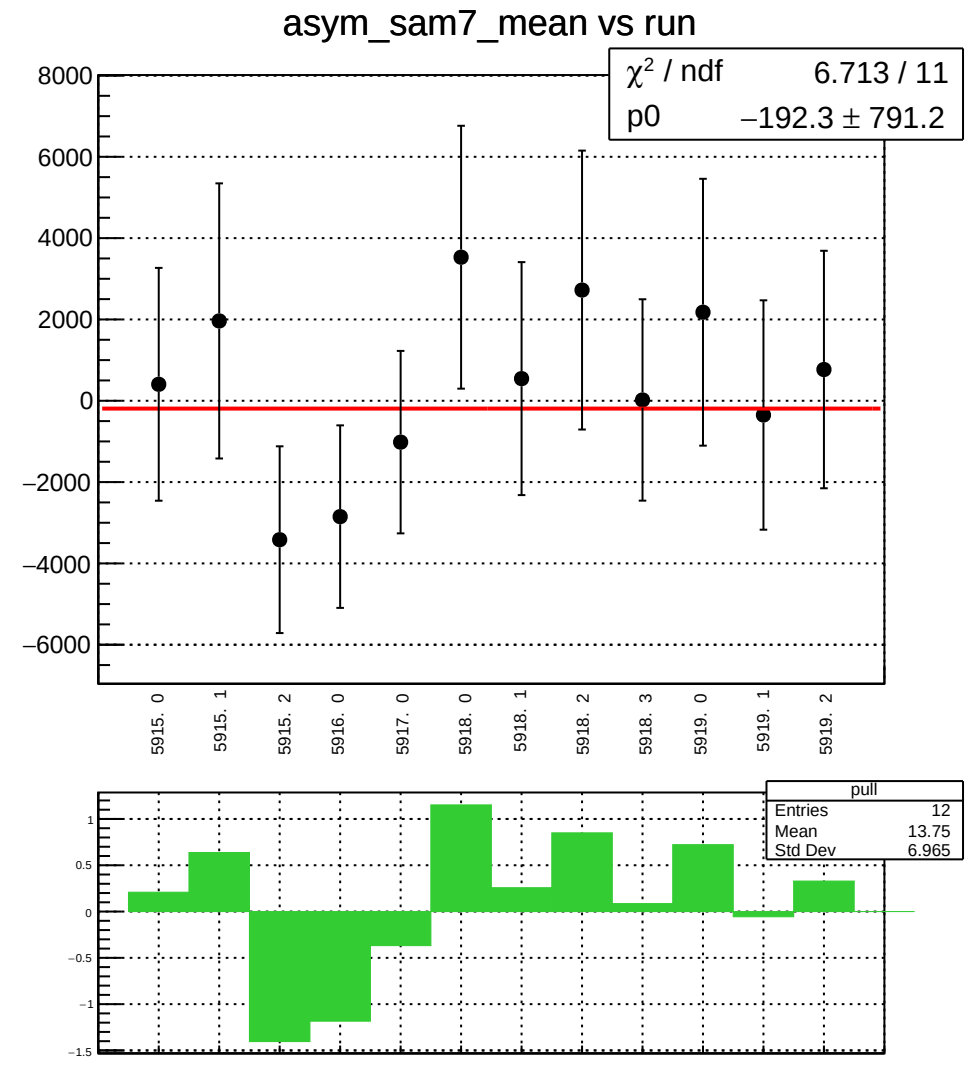

asym_sam5_rms vs run
χ² / ndf 1678 / 11
p0 2205 ± 4.226
2500
2400
2300
2200
2100
2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

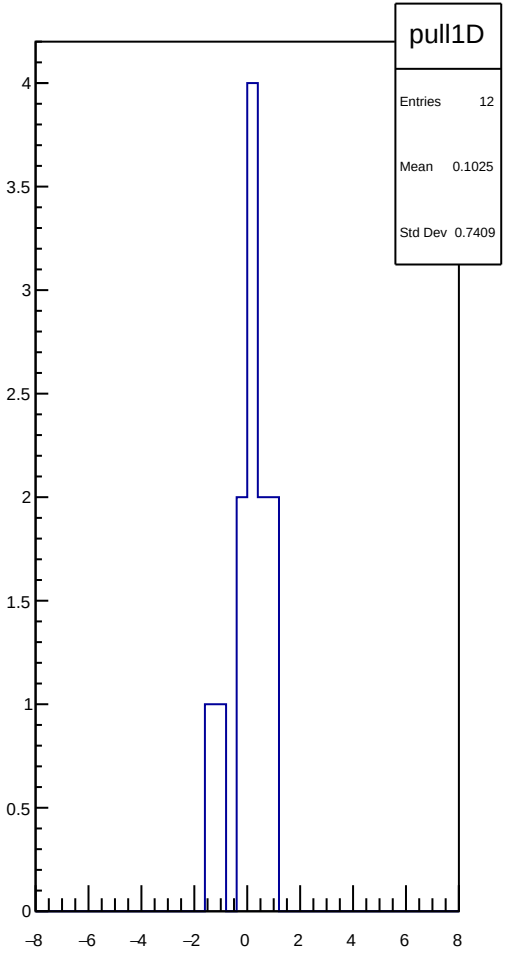

asym_sam6_mean vs run
χ² / ndf 12.9 / 11
p0 −1132 ± 4675
40000
20000
0
−20000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

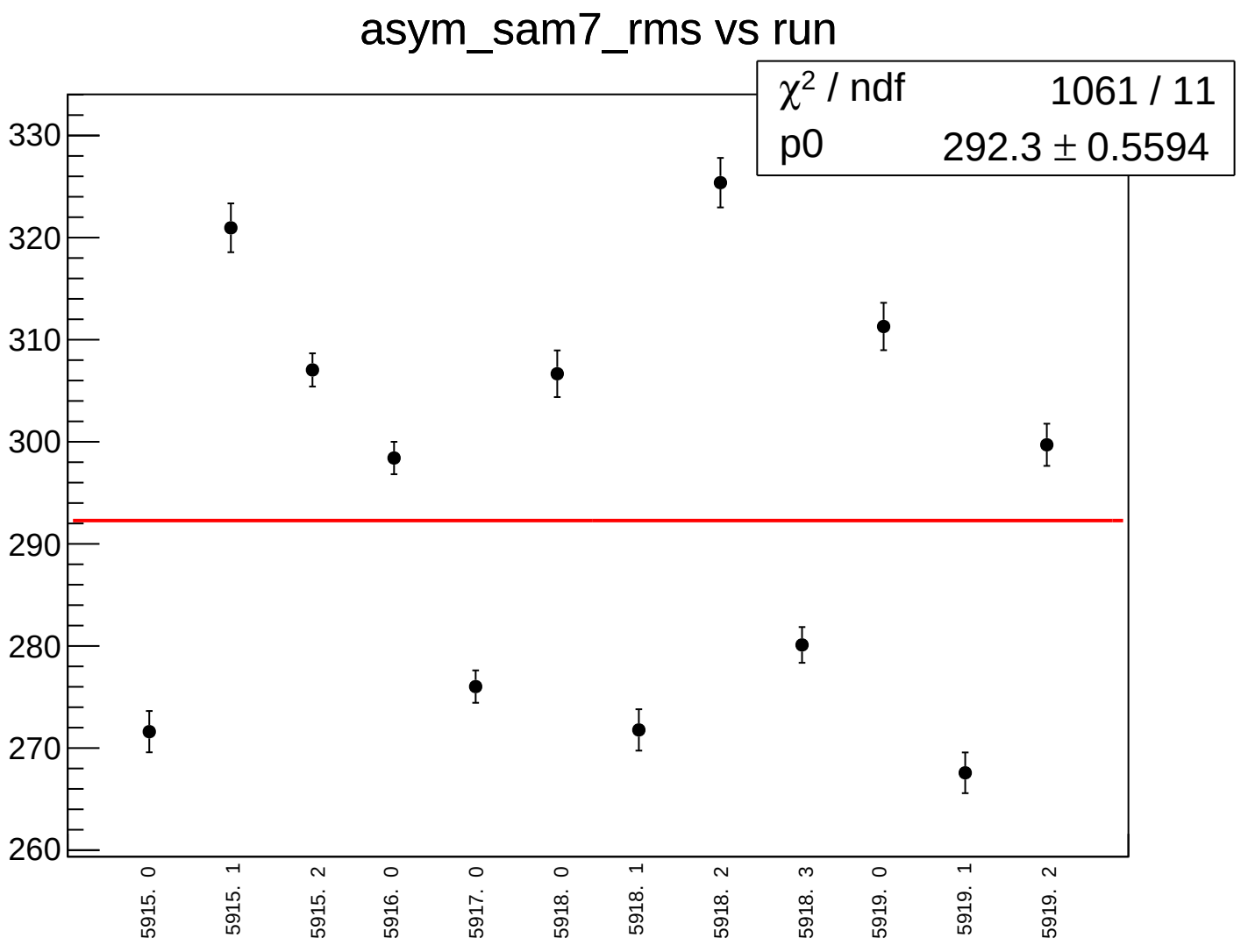

pull
Entries 12
Mean 29.07
Std Dev 22.67
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

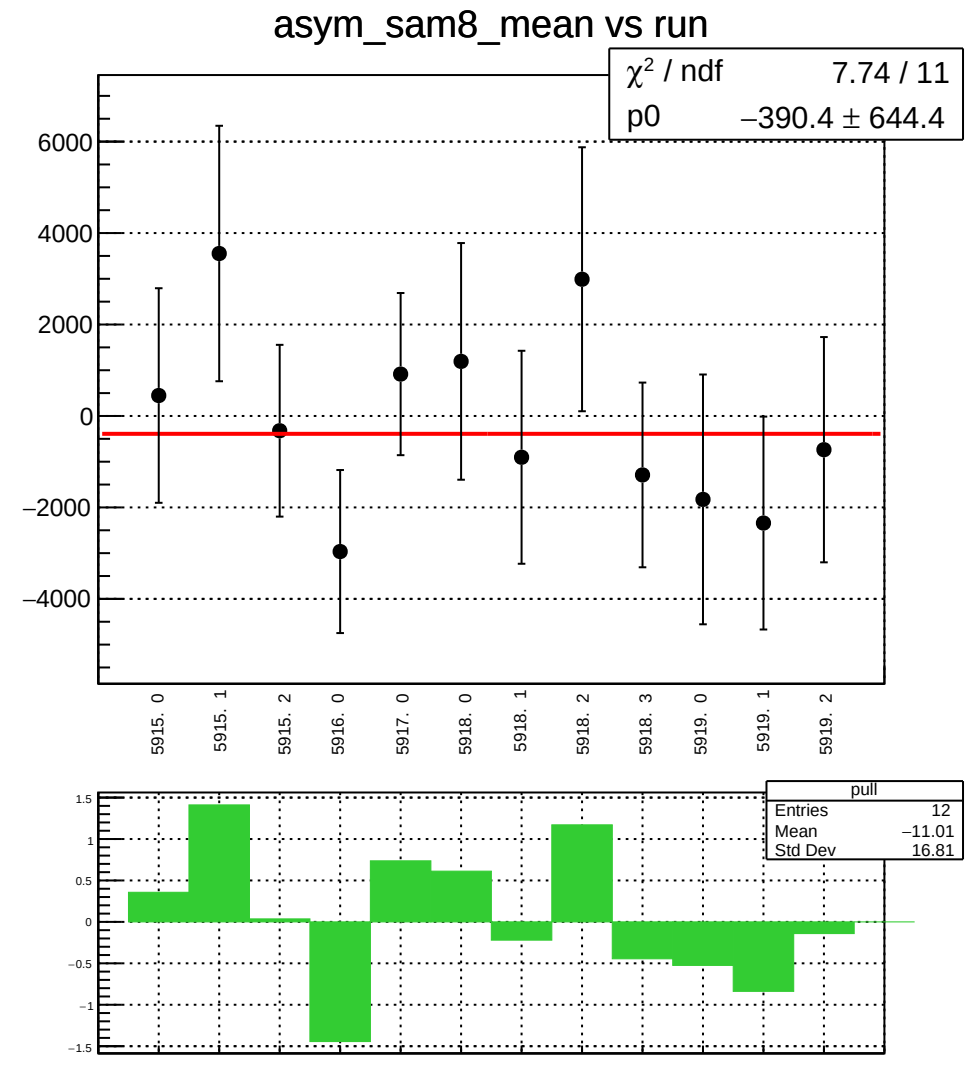

pull1D
Entries 12
Mean −0.07722
Std Dev 1.034
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

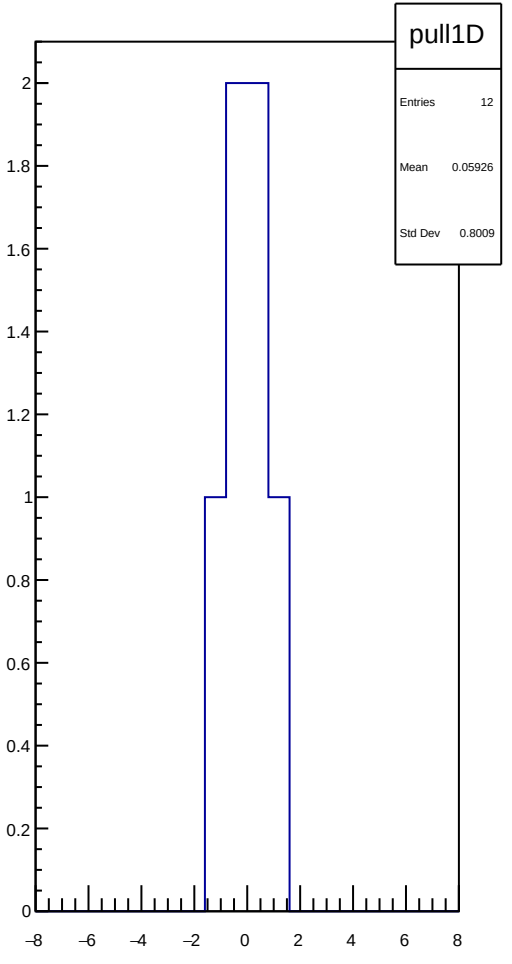

asym_sam6_rms vs run
χ² / ndf 669.2 / 11
p0 1728 ± 3.306
1850
1800
1750
1700
1650
1600
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

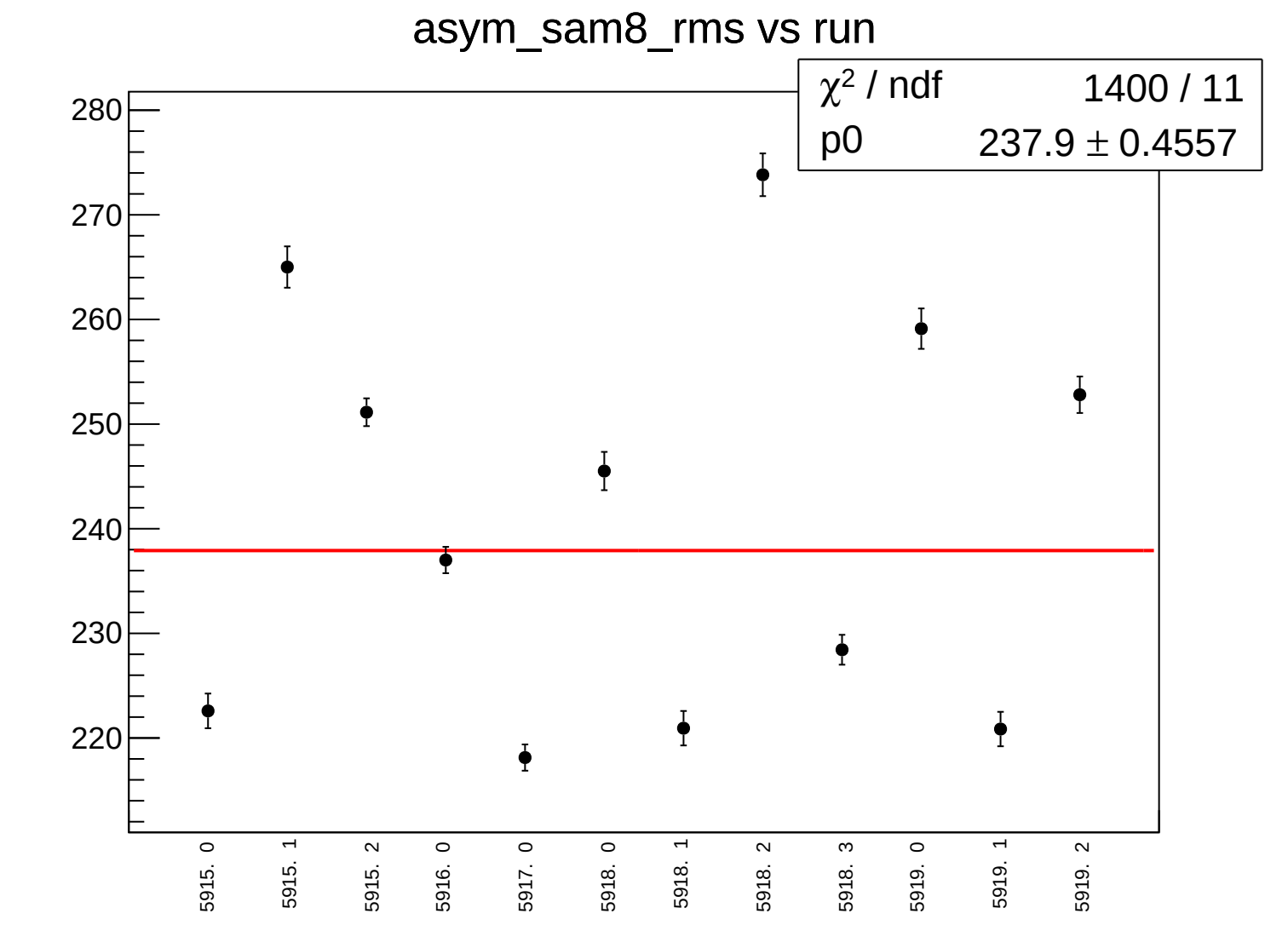

asym_sam7_mean vs run
χ² / ndf 6.713 / 11
p0 −192.3 ± 791.2
8000
6000
4000
2000
0
−2000
−4000
−6000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.75
Std Dev 6.965
1
0.5
0
−0.5
−1
−1.5

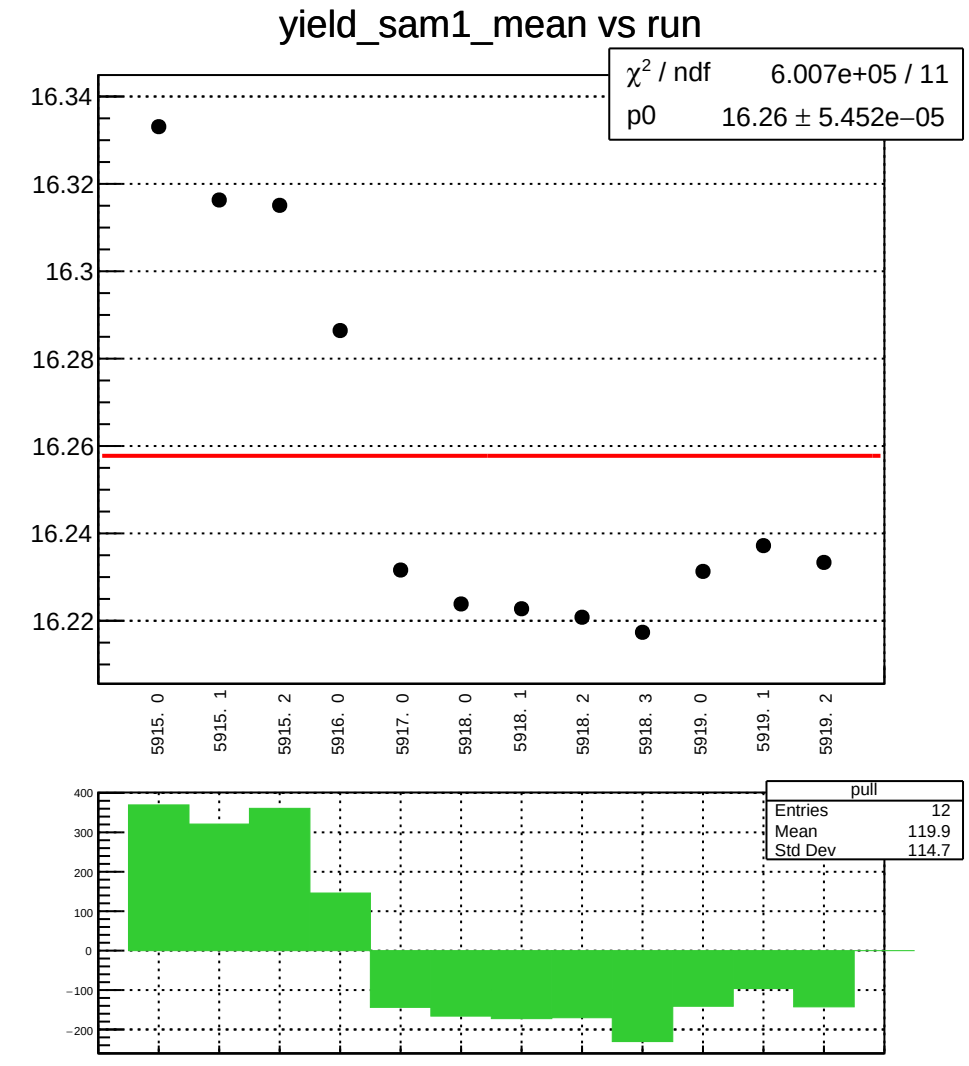

pull1D
Entries 12
Mean 0.1025
Std Dev 0.7409
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

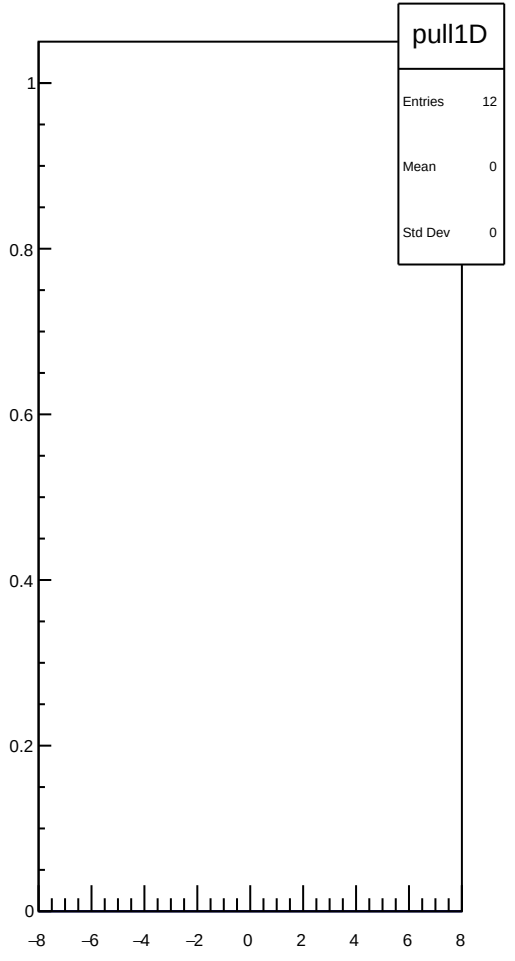

asym_sam7_rms vs run
χ² / ndf 1061 / 11
p0 292.3 ± 0.5594
330
320
310
300
290
280
270
260
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

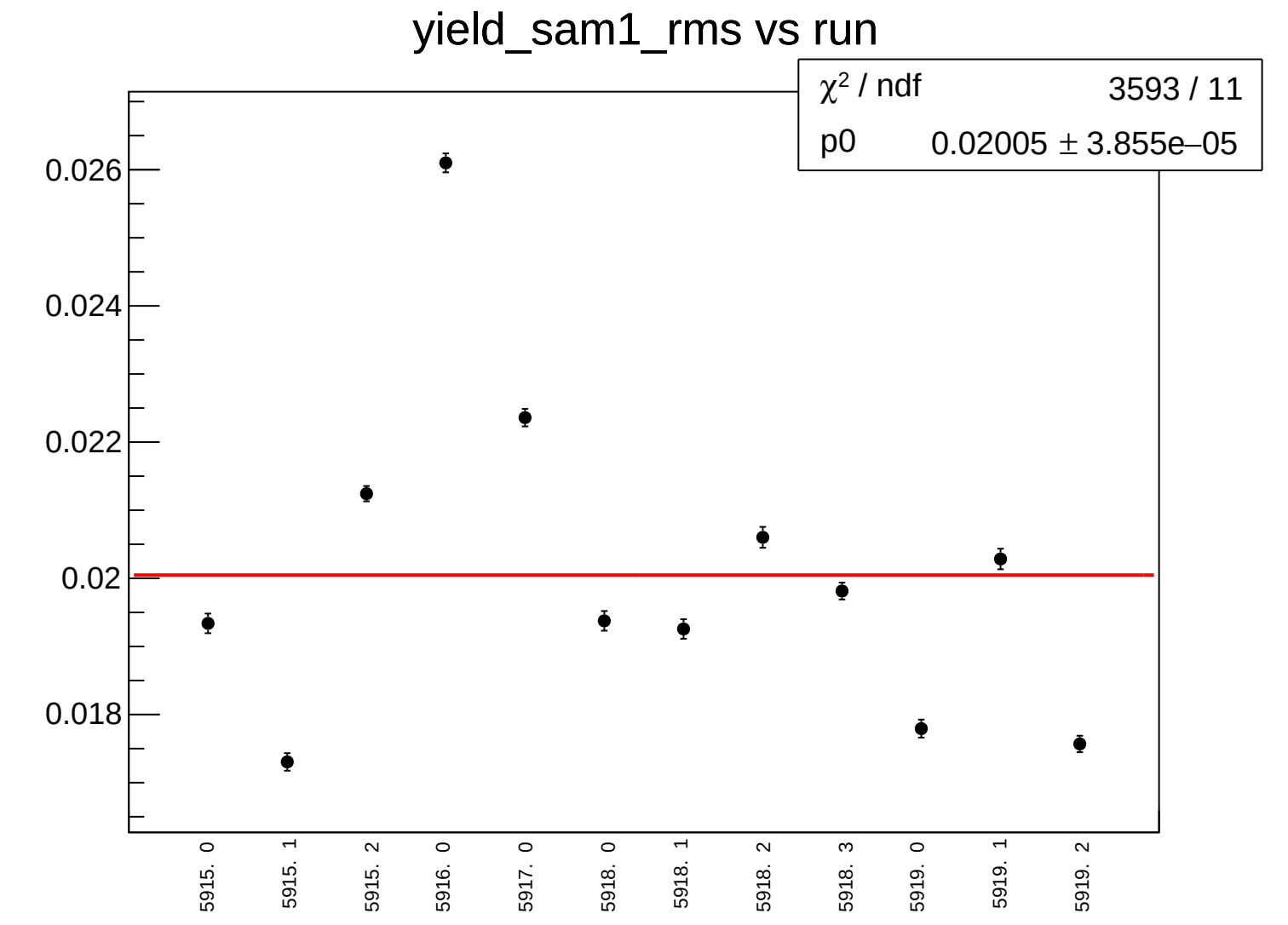

asym_sam8_mean vs run
χ² / ndf 7.74 / 11
p0 −390.4 ± 644.4
6000
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −11.01
Std Dev 16.81
1.5
1
0.5
0
−0.5
−1
−1.5

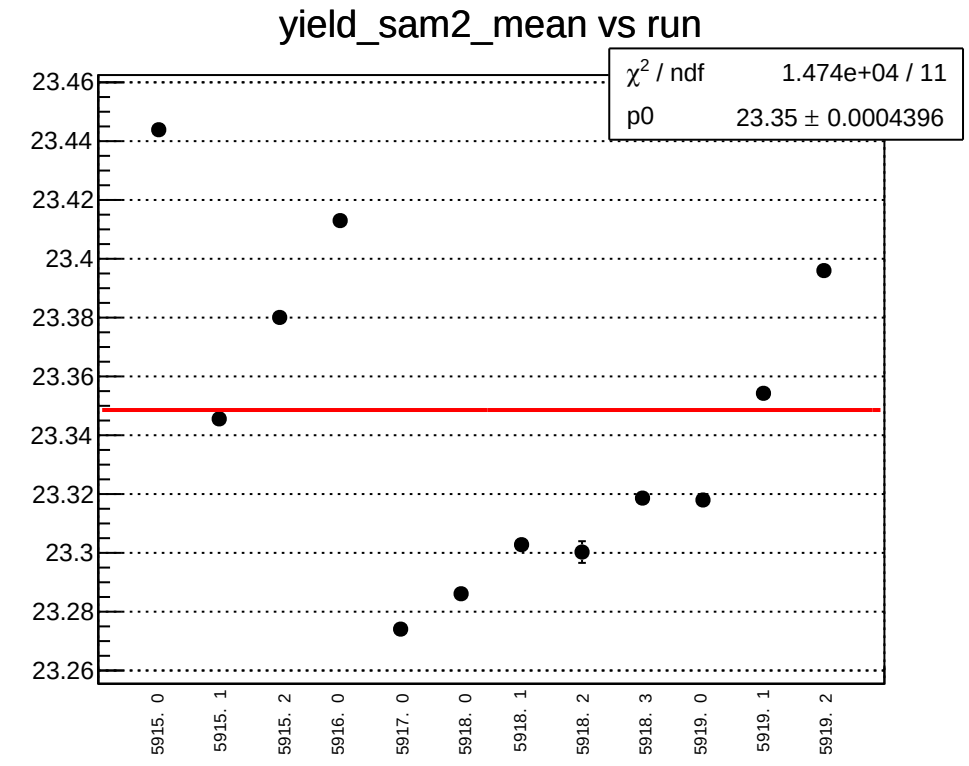

pull1D
Entries 12
Mean 0.05926
Std Dev 0.8009
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

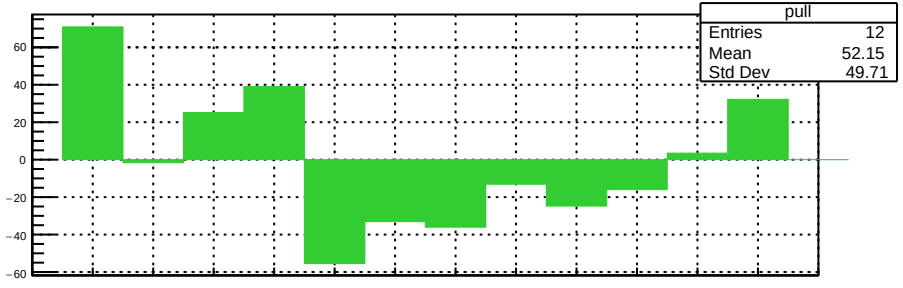

asym_sam8_rms vs run
χ² / ndf 1400 / 11
p0 237.9 ± 0.4557
280
270
260
250
240
230
220
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

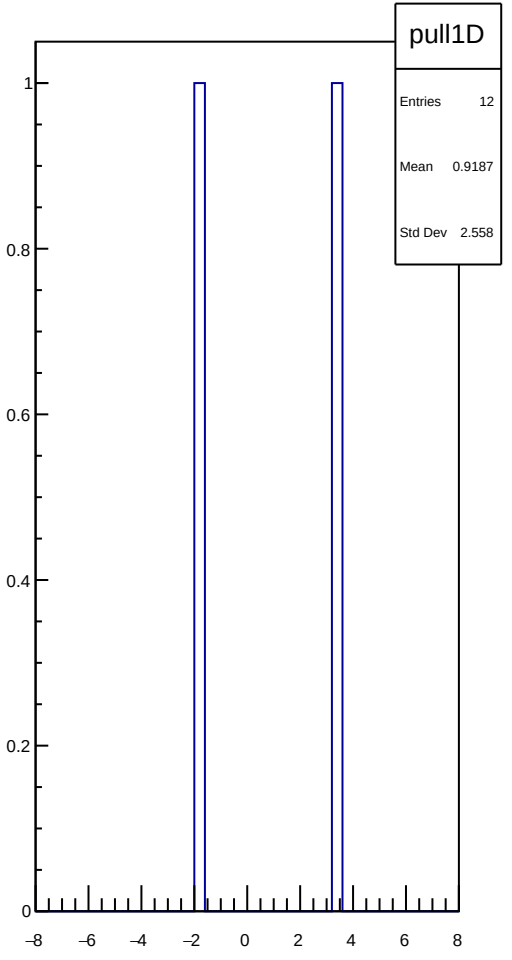

yield_sam1_mean vs run
χ² / ndf 6.007e+05 / 11
p0 16.26 ± 5.452e−05
16.34
16.32
16.3
16.28
16.26
16.24
16.22
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 119.9
Std Dev 114.7
400
300
200
100
0
−100
−200

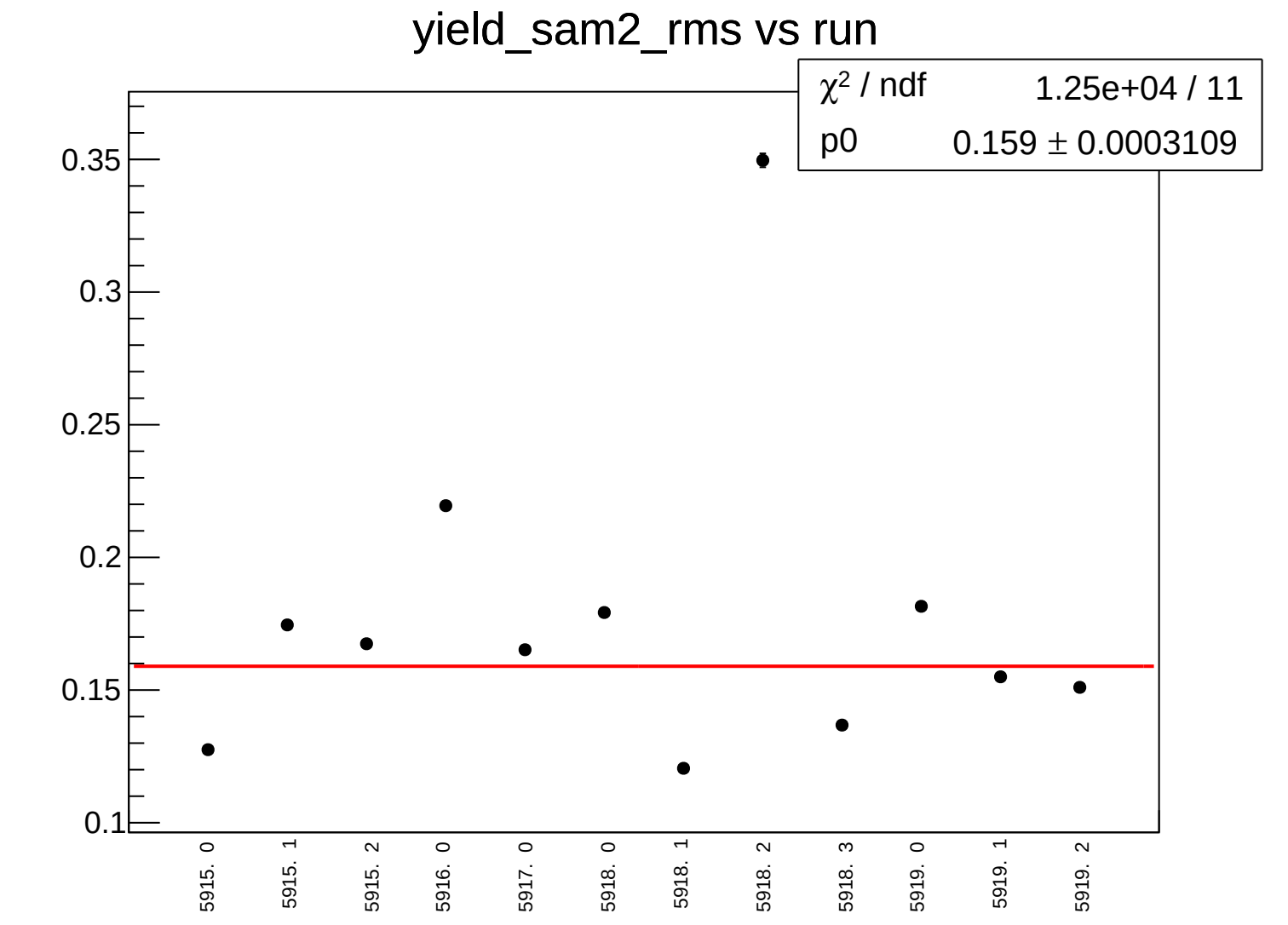

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

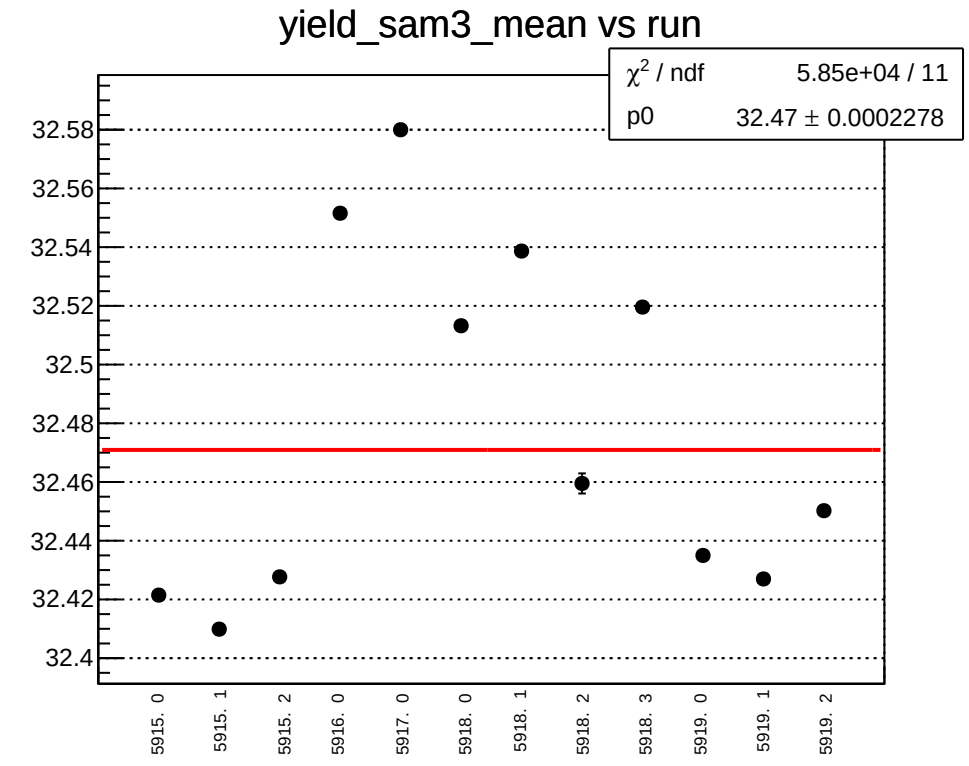

yield_sam1_rms vs run
χ² / ndf 3593 / 11
p0 0.02005 ± 3.855e–05
0.026
0.024
0.022
0.02
0.018
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

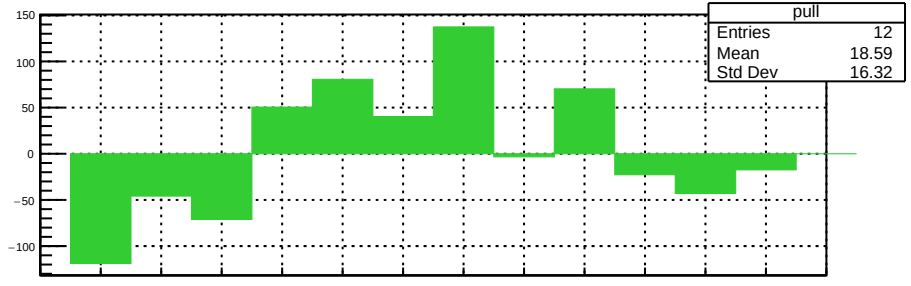

yield_sam2_mean vs run
χ² / ndf 1.474e+04 / 11
p0 23.35 ± 0.0004396
23.46
23.44
23.42
23.4
23.38
23.36
23.34
23.32
23.3
23.28
23.26
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

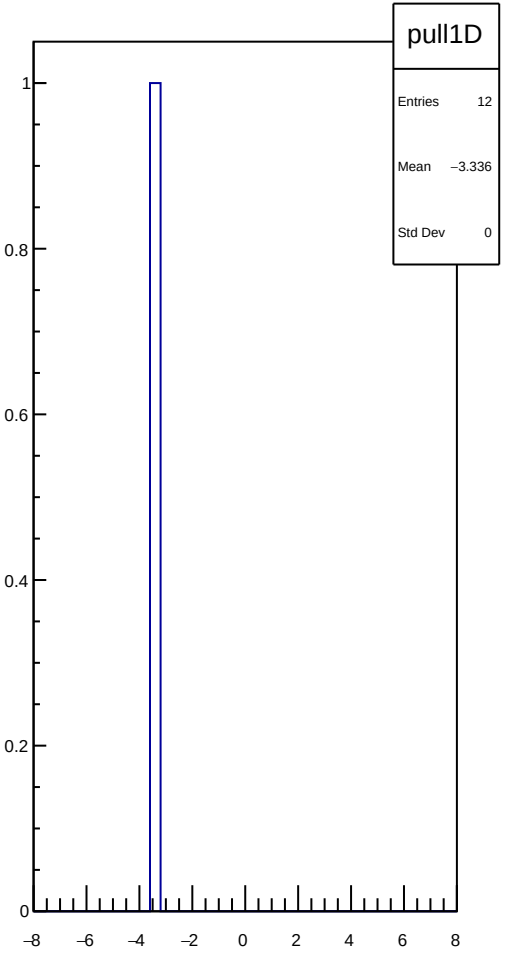

pull
Entries 12
Mean 52.15
Std Dev 49.71
60
40
20
0
−20
−40
−60

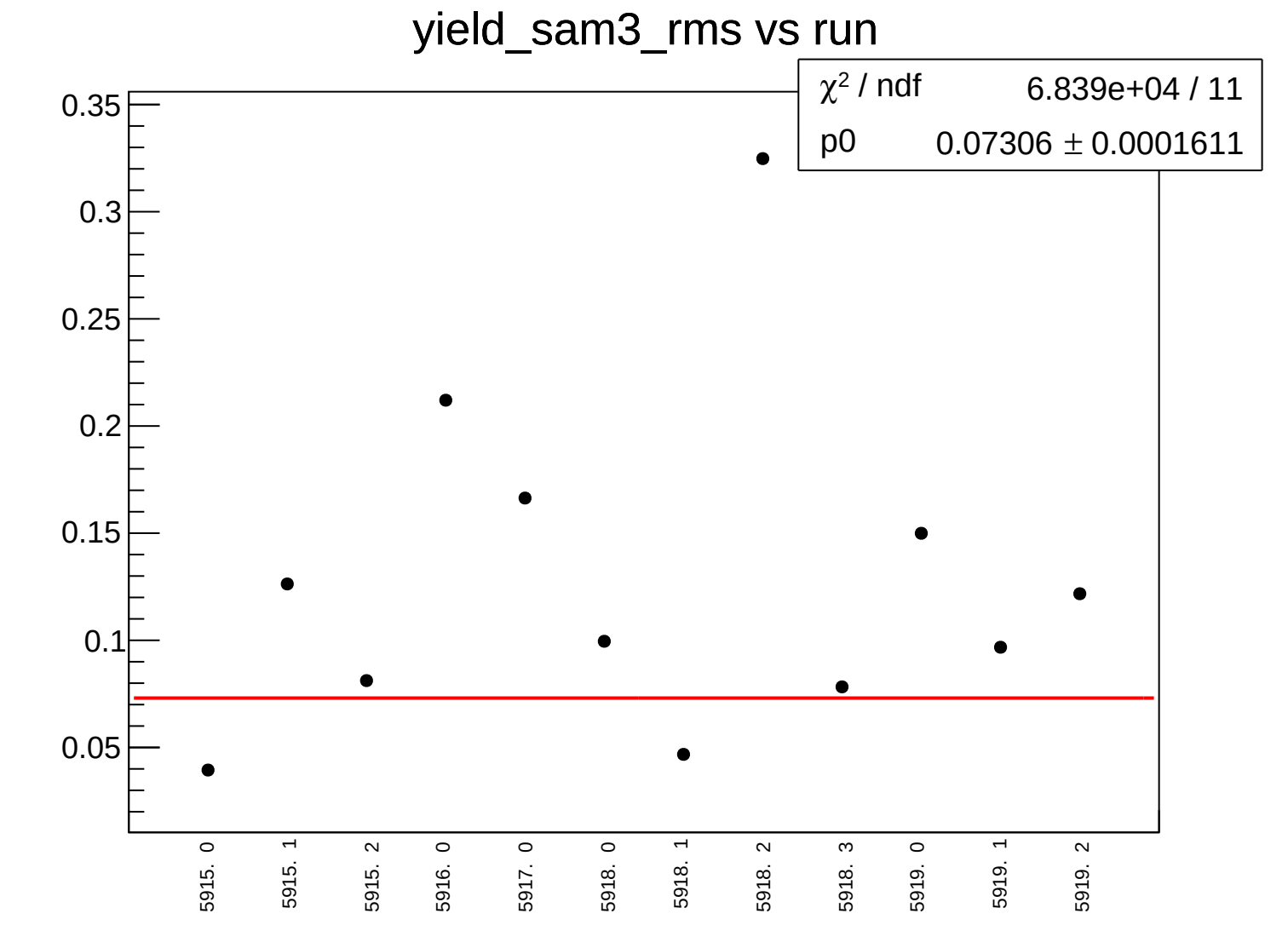

pull1D
Entries 12
Mean 0.9187
Std Dev 2.558
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

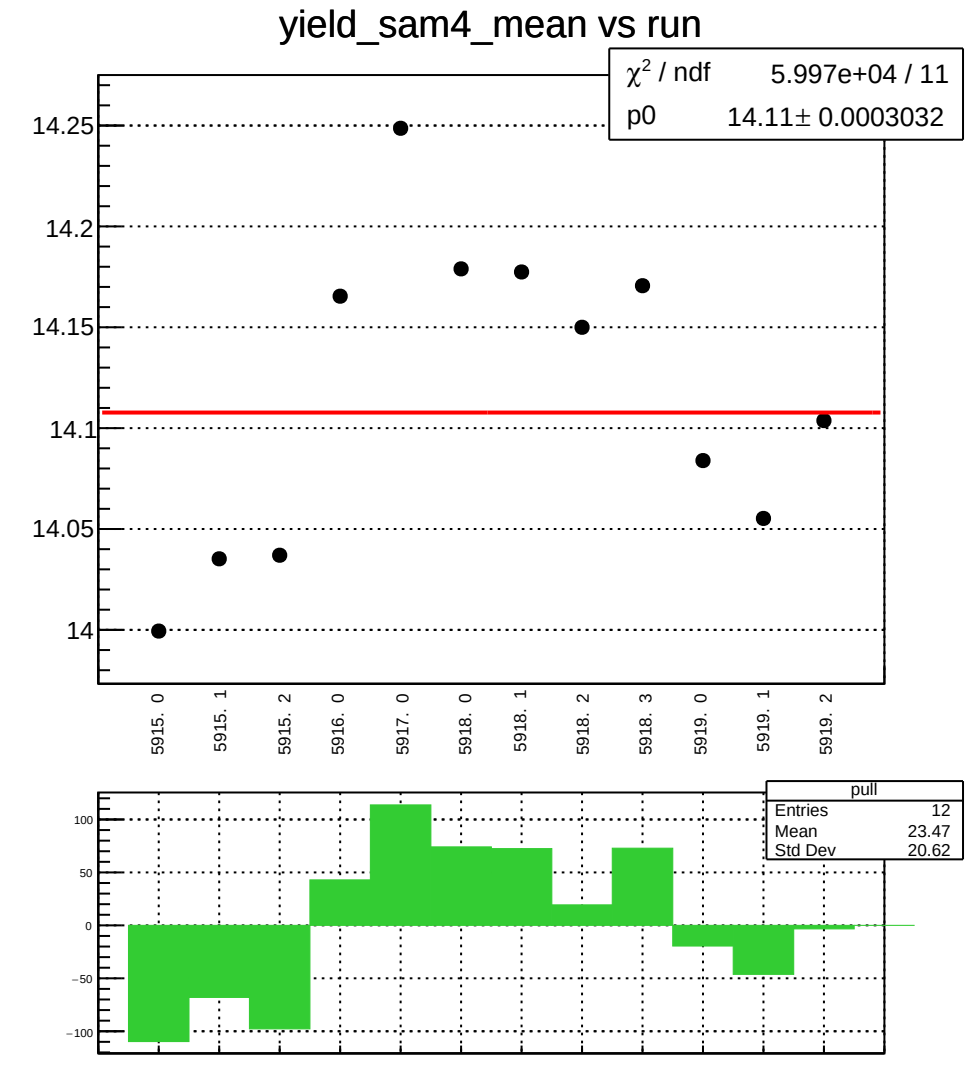

yield_sam2_rms vs run
χ² / ndf 1.25e+04 / 11
p0 0.159 ± 0.0003109
0.35
0.3
0.25
0.2
0.15
0.1
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

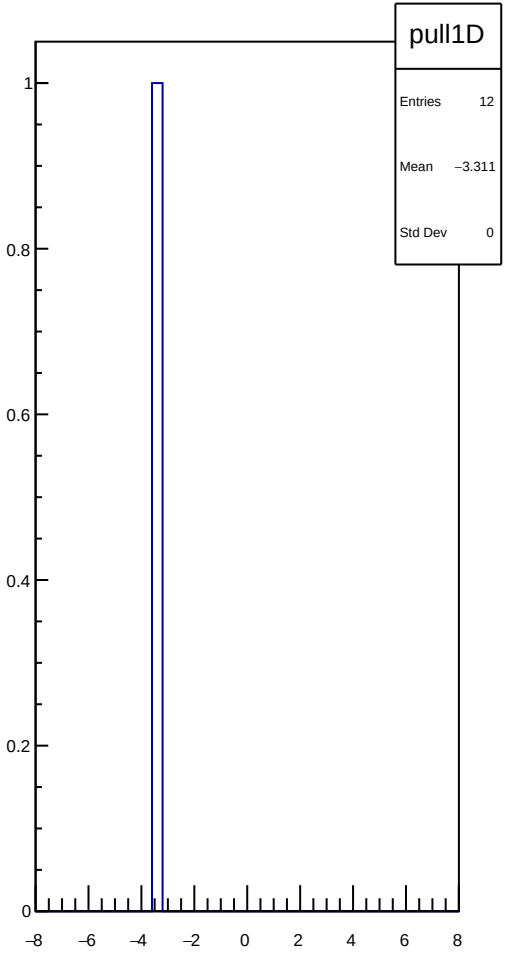

yield_sam3_mean vs run
χ² / ndf 5.85e+04 / 11
p0 32.47 ± 0.0002278
32.58
32.56
32.54
32.52
32.5
32.48
32.46
32.44
32.42
32.4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

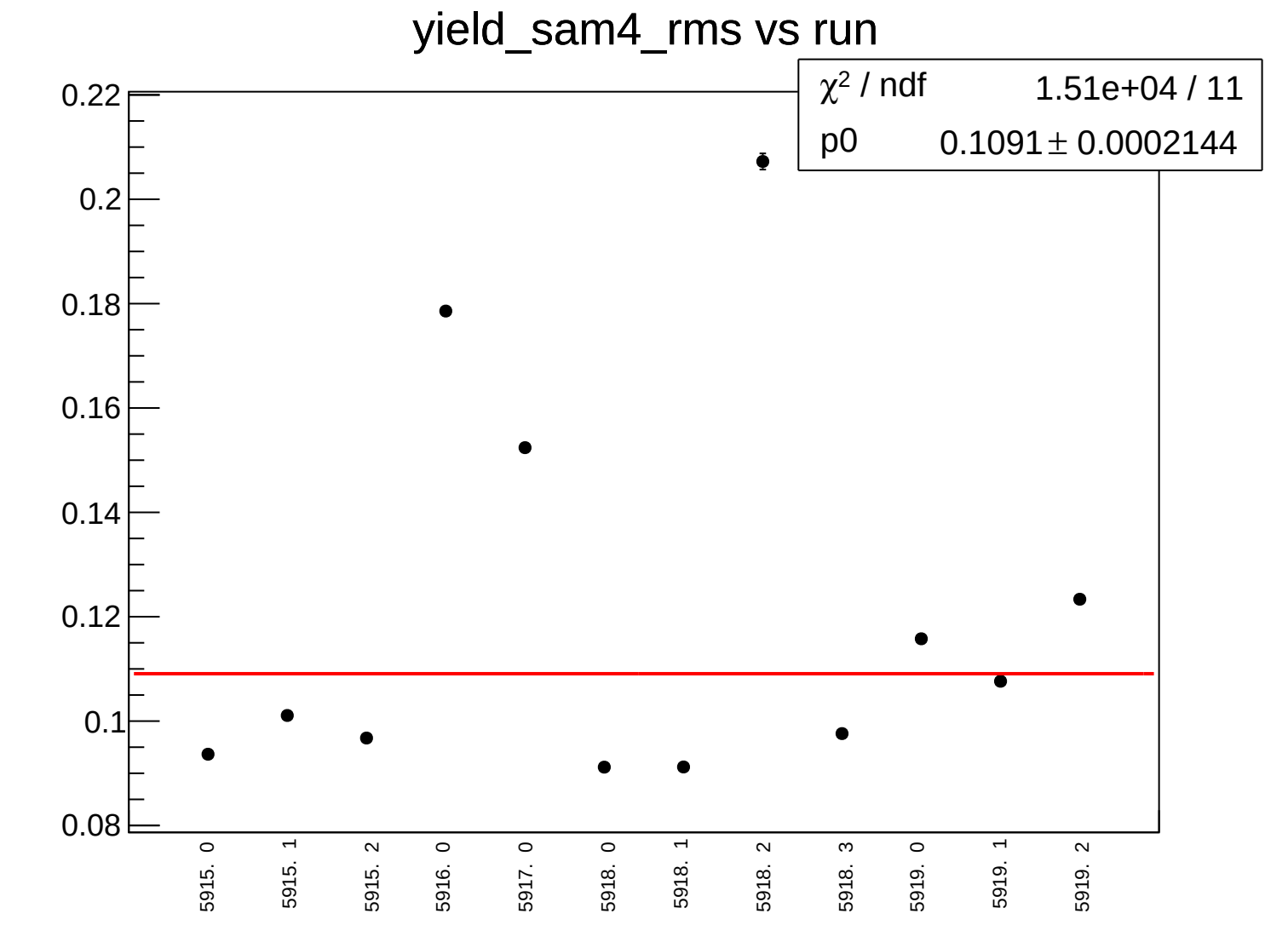

pull
Entries 12
Mean 18.59
Std Dev 16.32
150
100
50
0
−50
−100

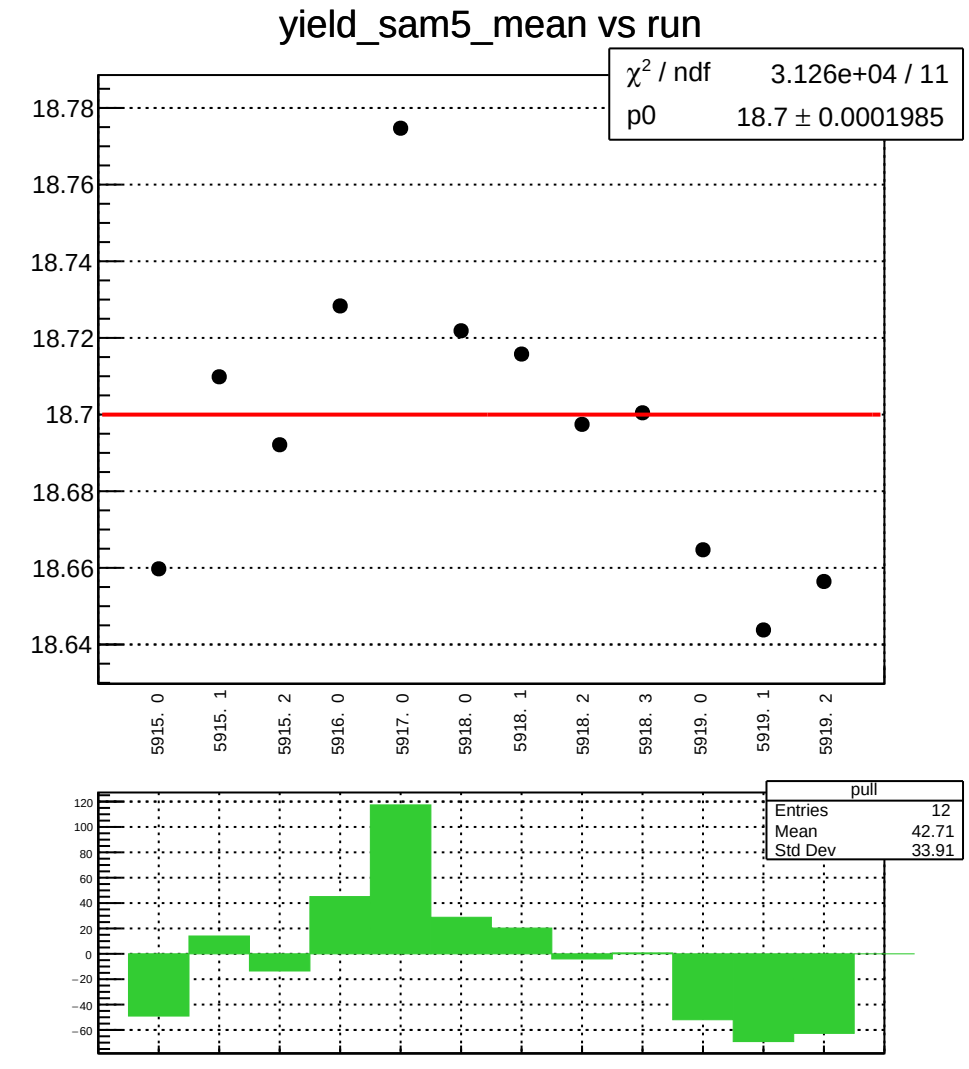

pull1D
Entries 12
Mean −3.336
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

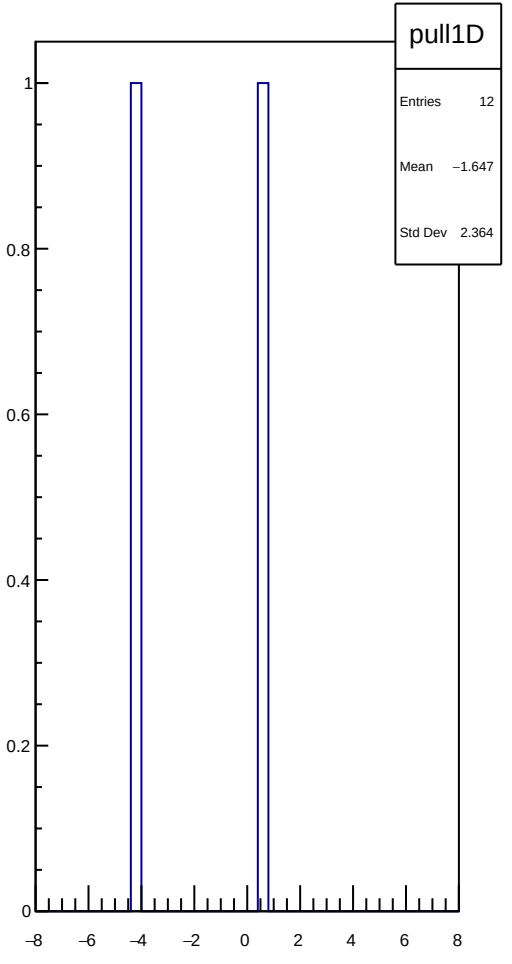

yield_sam3_rms vs run
χ² / ndf 6.839e+04 / 11
p0 0.07306 ± 0.0001611
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

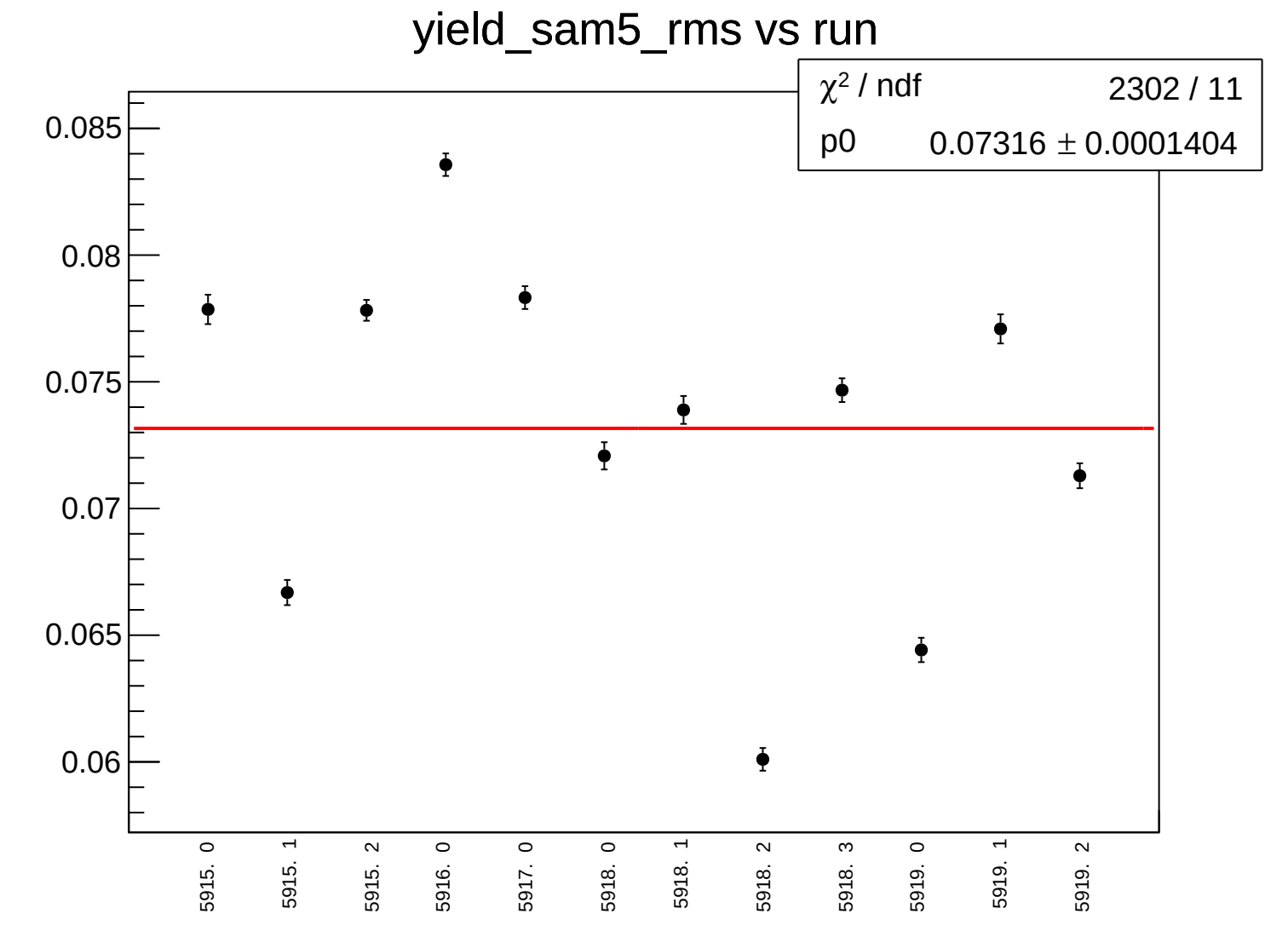

yield_sam4_mean vs run
χ² / ndf 5.997e+04 / 11
p0 14.11± 0.0003032
14.25
14.2
14.15
14.1
14.05
14
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 23.47
Std Dev 20.62
100
50
0
−50
−100

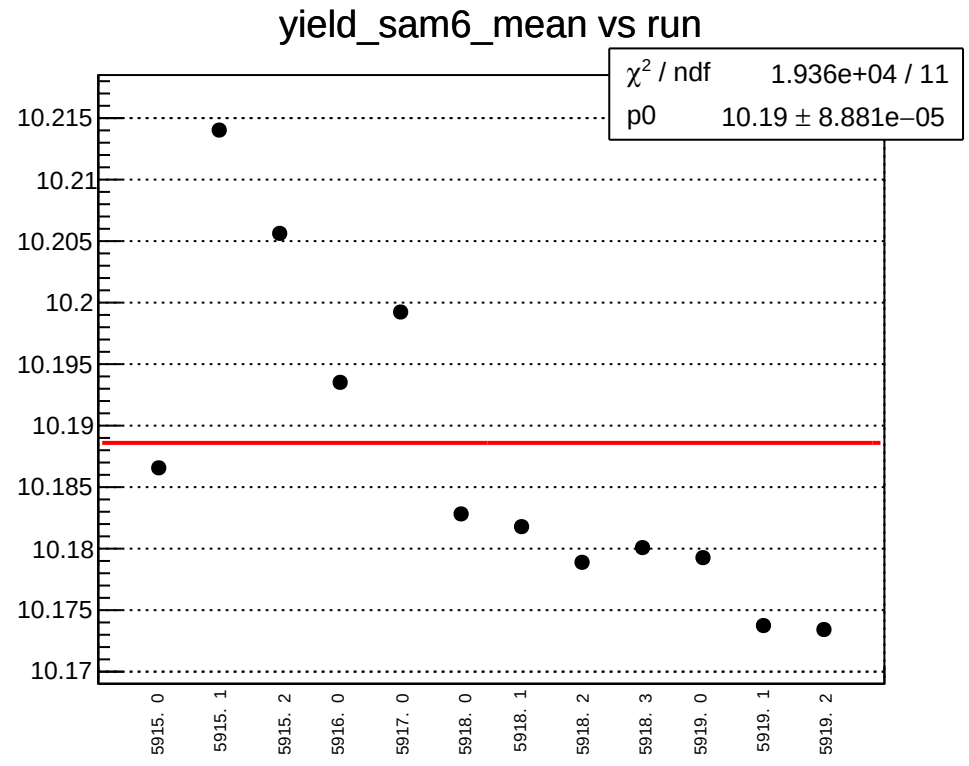

pull1D
Entries 12
Mean −3.311
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

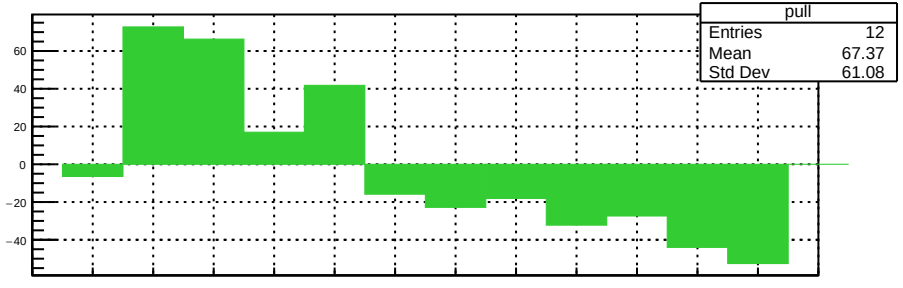

yield_sam4_rms vs run
χ² / ndf 1.51e+04 / 11
p0 0.1091 ± 0.0002144
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

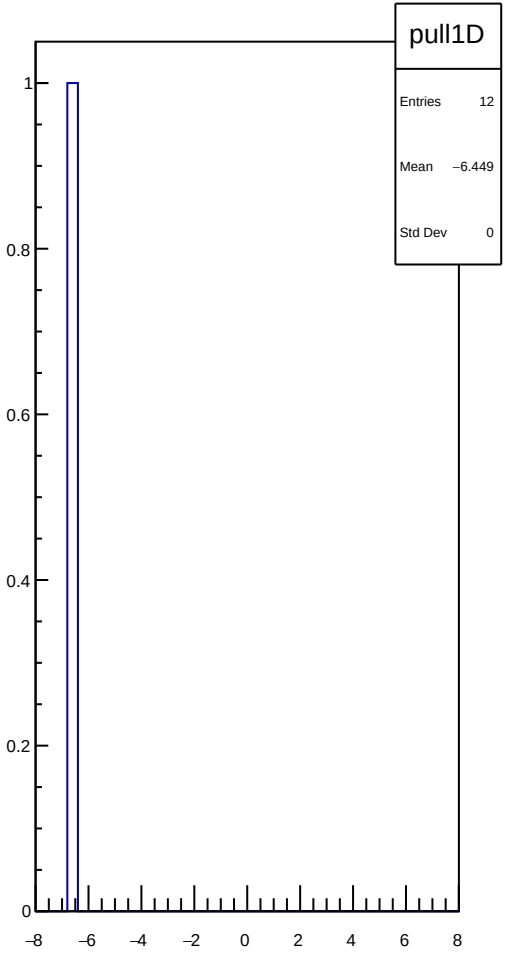

yield_sam5_mean vs run
χ² / ndf 3.126e+04 / 11
p0 18.7 ± 0.0001985
18.78
18.76
18.74
18.72
18.7
18.68
18.66
18.64
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 42.71
Std Dev 33.91
120
100
80
60
40
20
0
−20
−40
−60

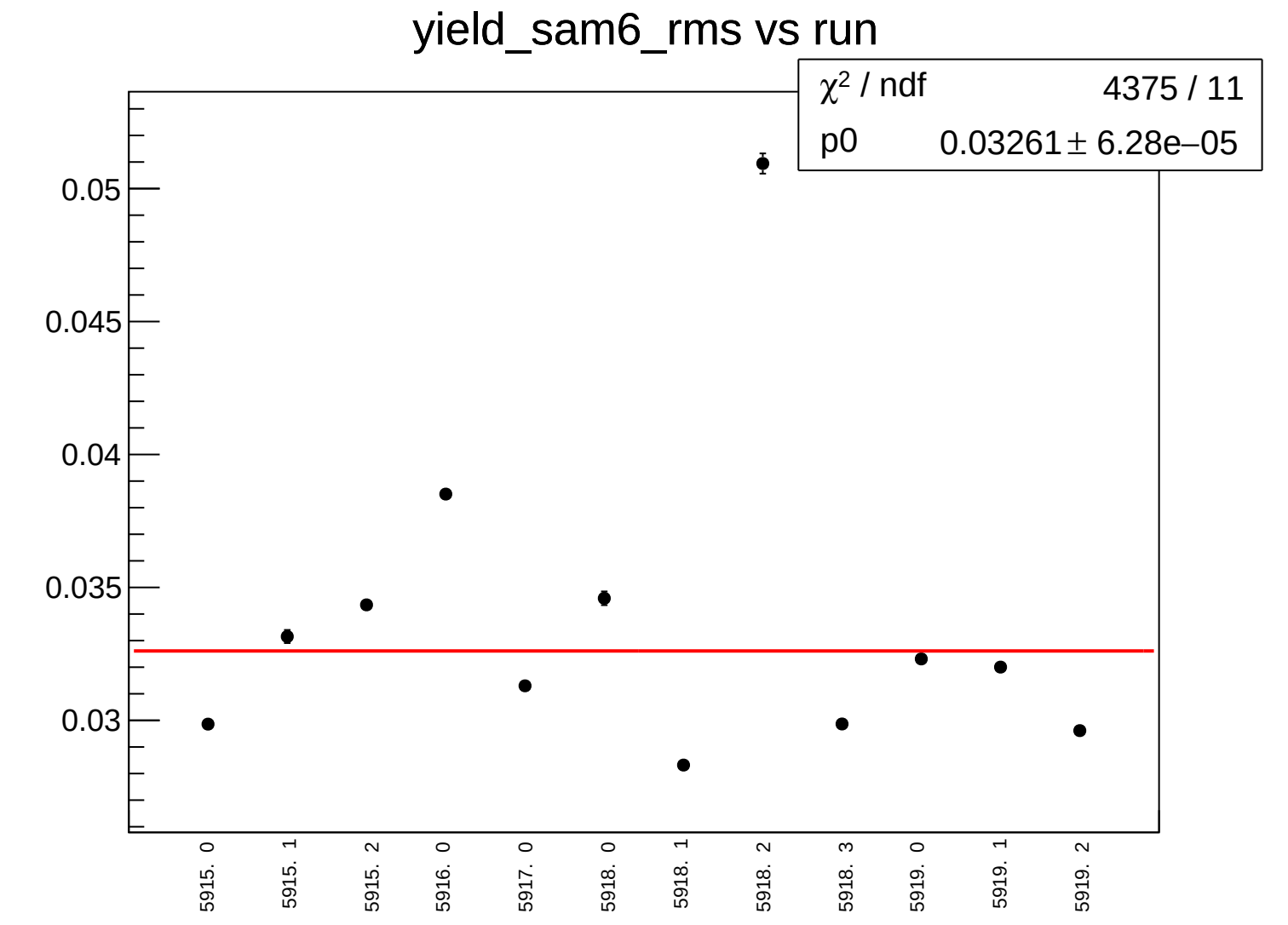

pull1D
Entries 12
Mean −1.647
Std Dev 2.364
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

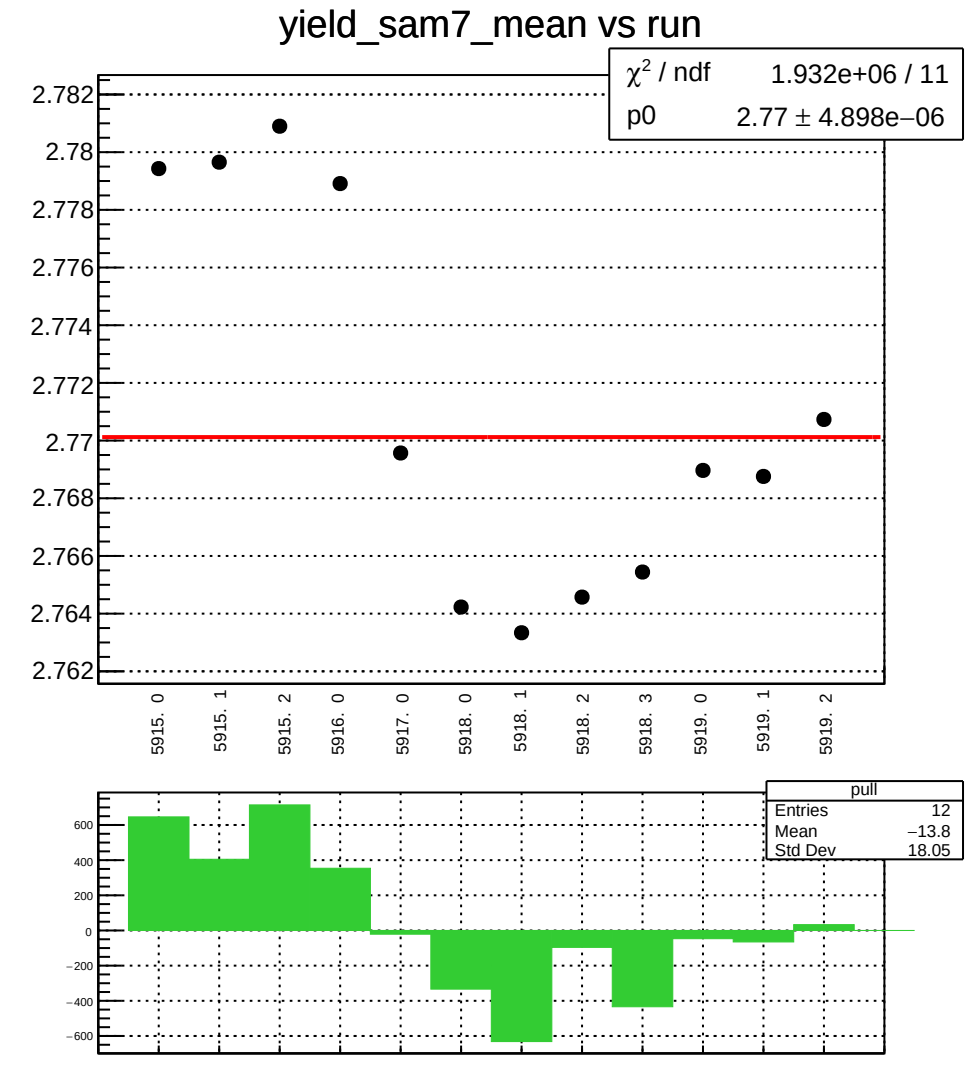

yield_sam5_rms vs run
χ² / ndf 2302 / 11
p0 0.07316 ± 0.0001404
0.085
0.08
0.075
0.07
0.065
0.06
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

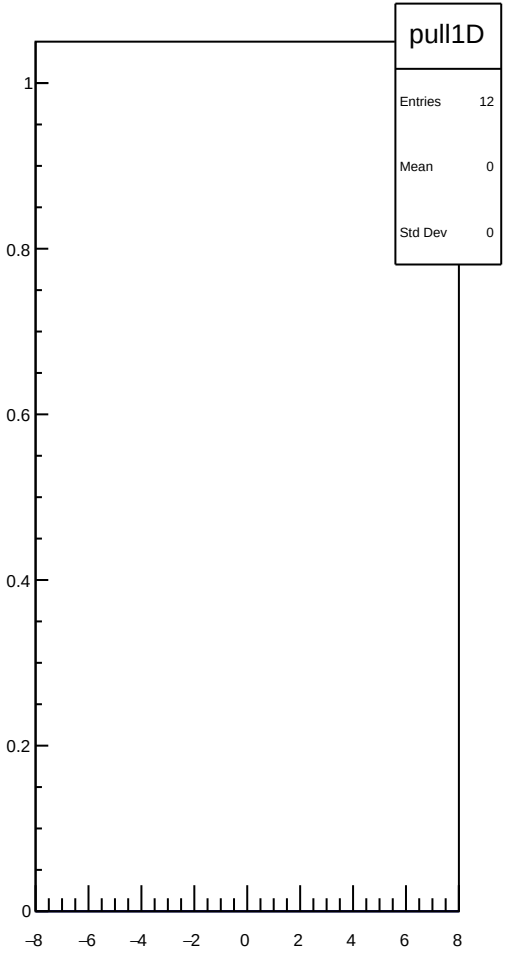

yield_sam6_mean vs run
χ² / ndf 1.936e+04 / 11
p0 10.19 ± 8.881e−05
10.215
10.21
10.205
10.2
10.195
10.19
10.185
10.18
10.175
10.17
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

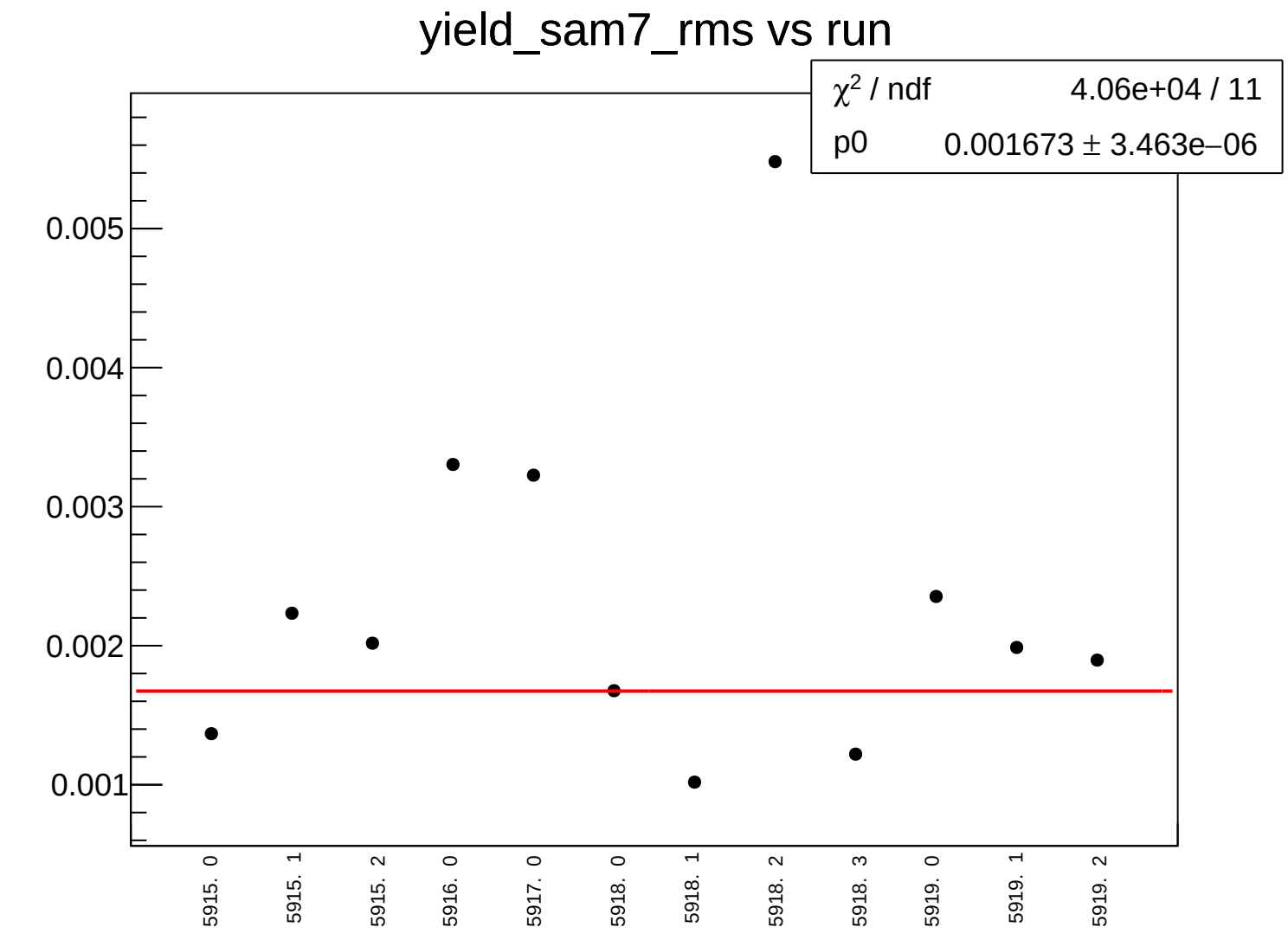

pull
Entries 12
Mean 67.37
Std Dev 61.08
60
40
20
0
−20
−40

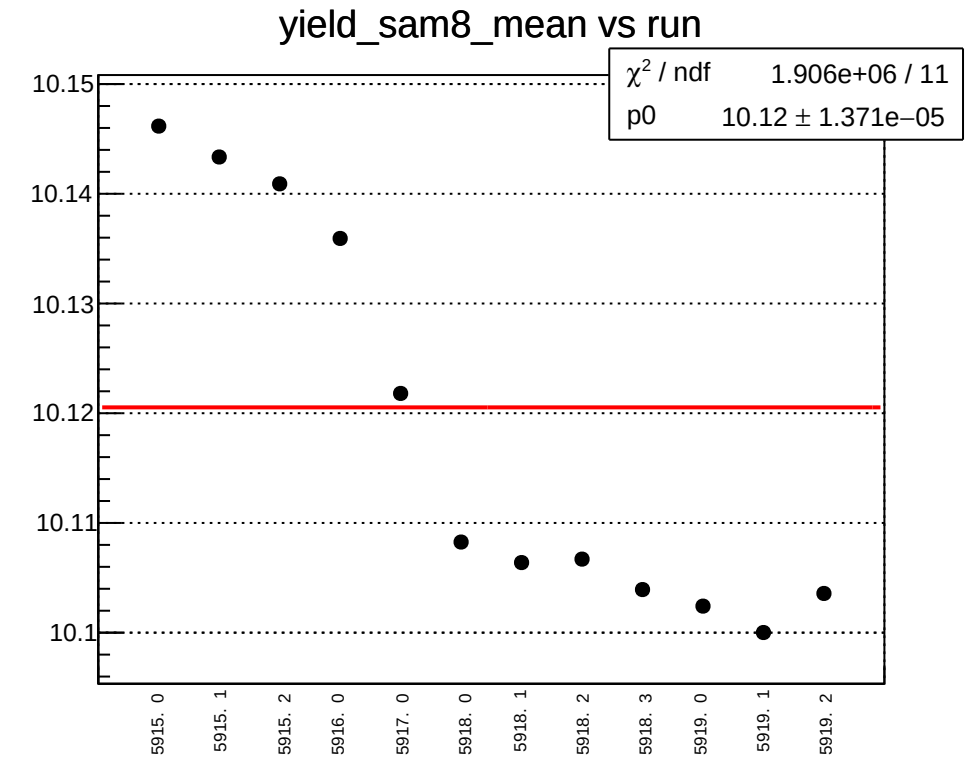

pull1D
Entries 12
Mean −6.449
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

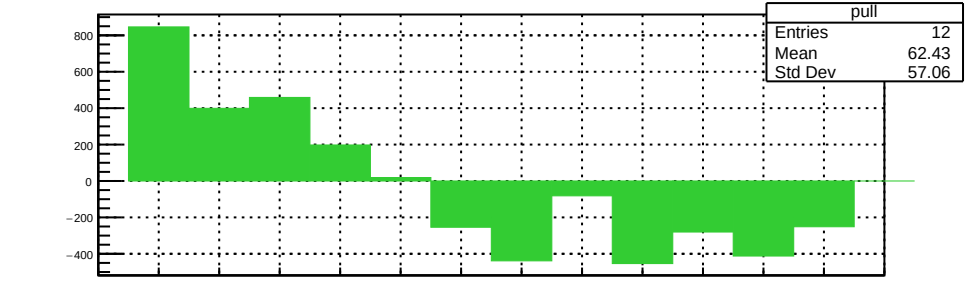

yield_sam6_rms vs run
χ² / ndf 4375 / 11
p0 0.03261 ± 6.28e–05
0.05
0.045
0.04
0.035
0.03
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

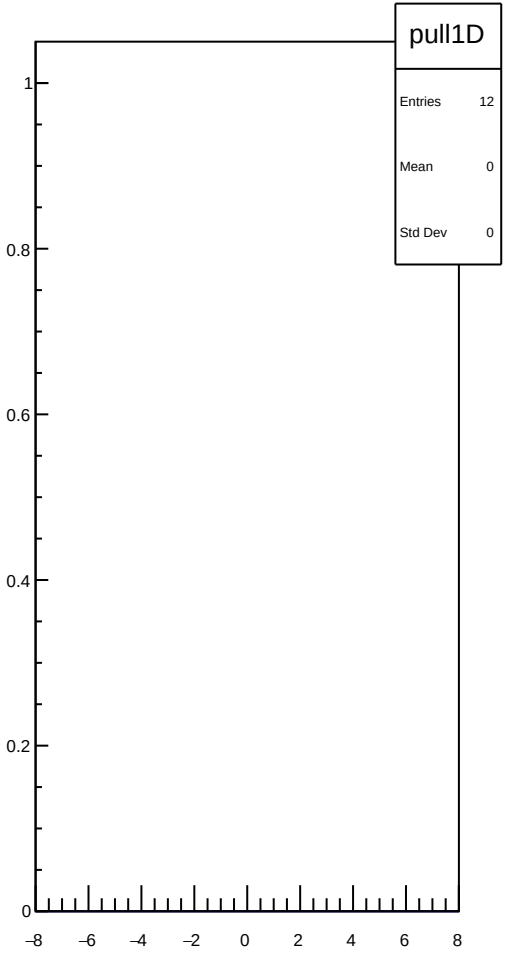

yield_sam7_mean vs run
χ² / ndf 1.932e+06 / 11
p0 2.77 ± 4.898e−06
2.782
2.78
2.778
2.776
2.774
2.772
2.77
2.768
2.766
2.764
2.762
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −13.8
Std Dev 18.05
600
400
200
0
−200
−400
−600

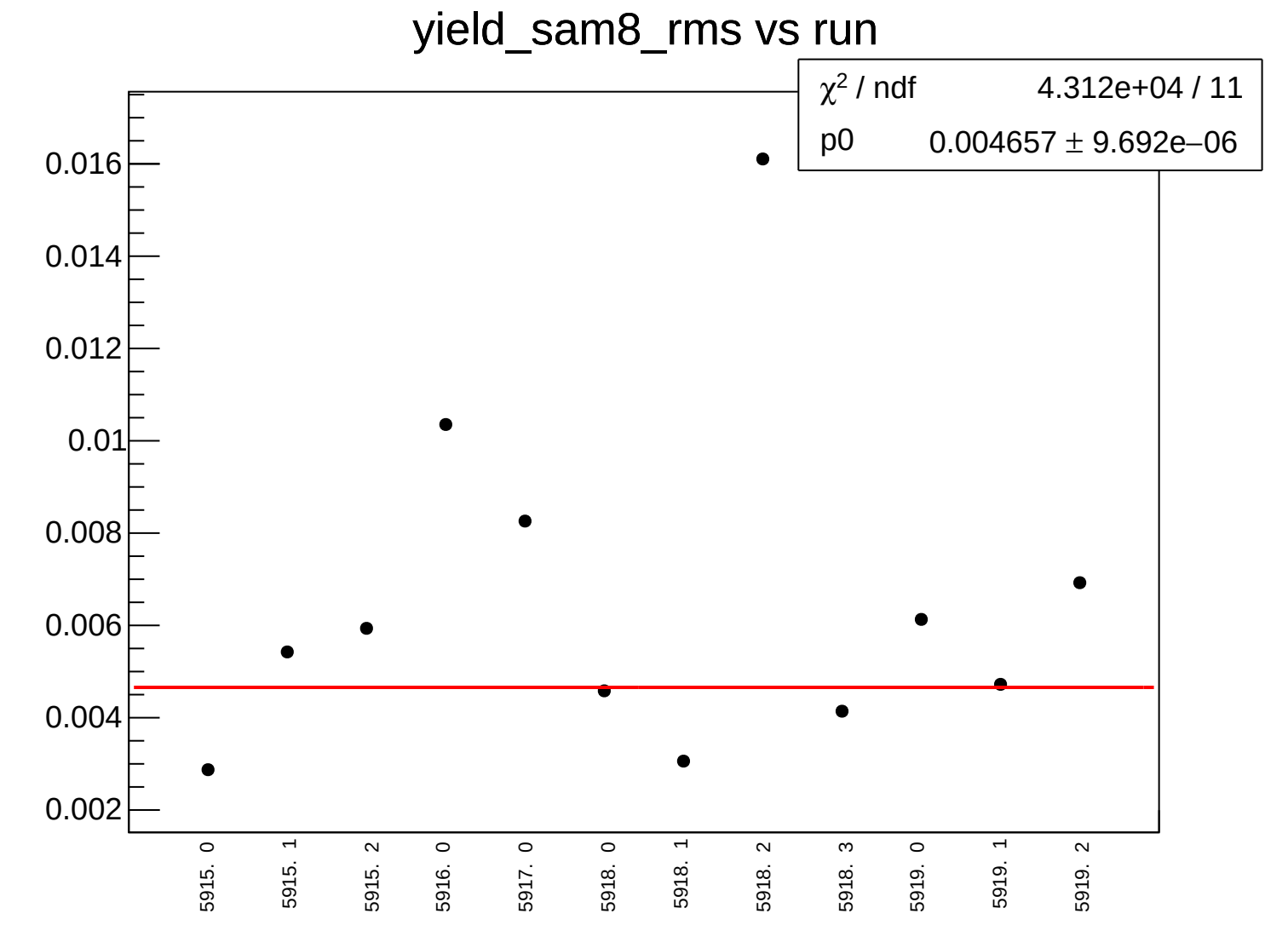

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

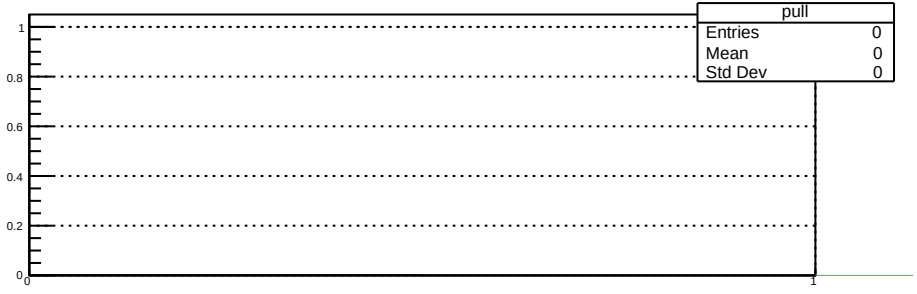

yield_sam7_rms vs run
χ² / ndf 4.06e+04 / 11
p0 0.001673 ± 3.463e−06
0.005
0.004
0.003
0.002
0.001
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

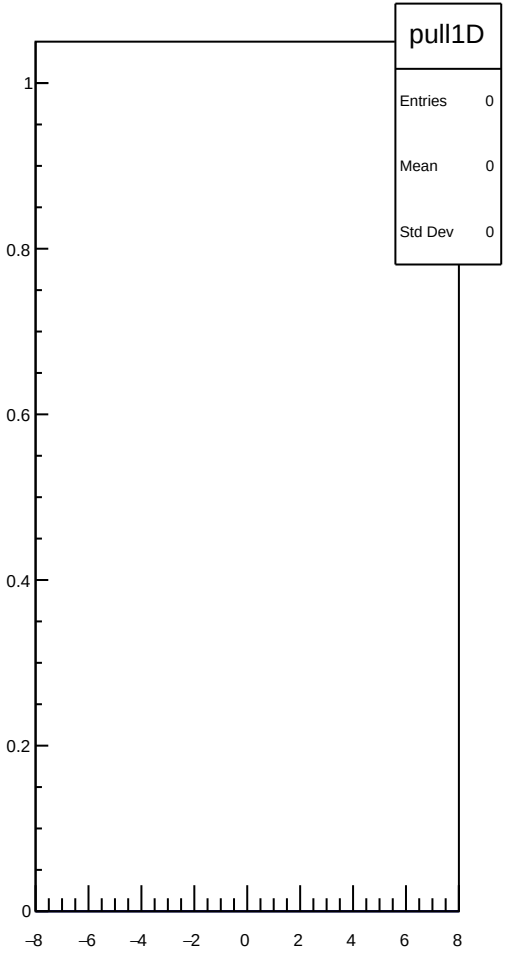

yield_sam8_mean vs run
χ² / ndf 1.906e+06 / 11
p0 10.12 ± 1.371e−05
10.15
10.14
10.13
10.12
10.11
10.1
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

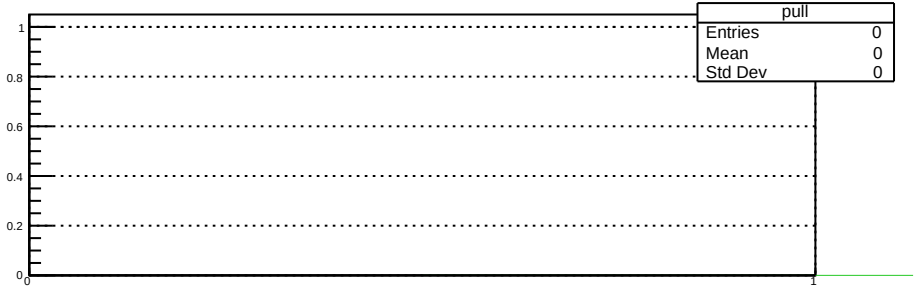

pull
Entries 12
Mean 62.43
Std Dev 57.06
800
600
400
200
0
−200
−400

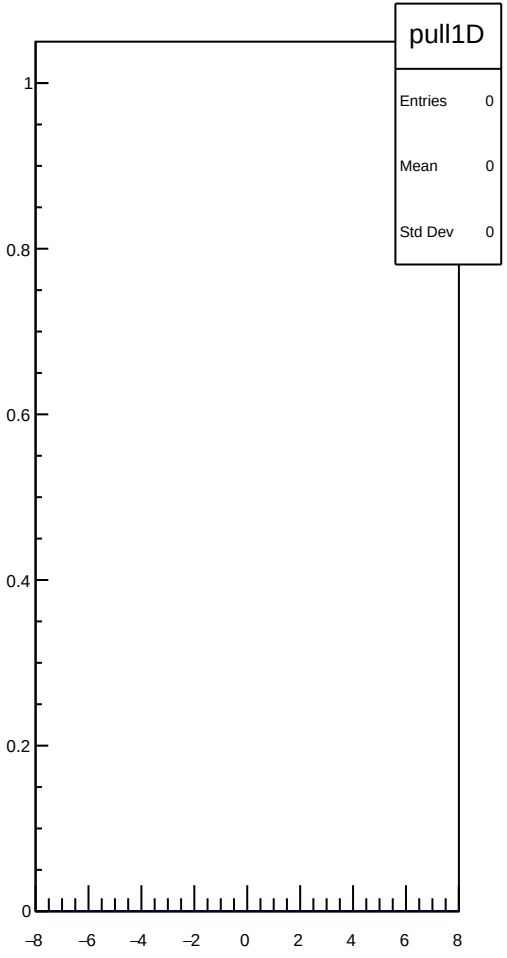

pull1D
Entries 12
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

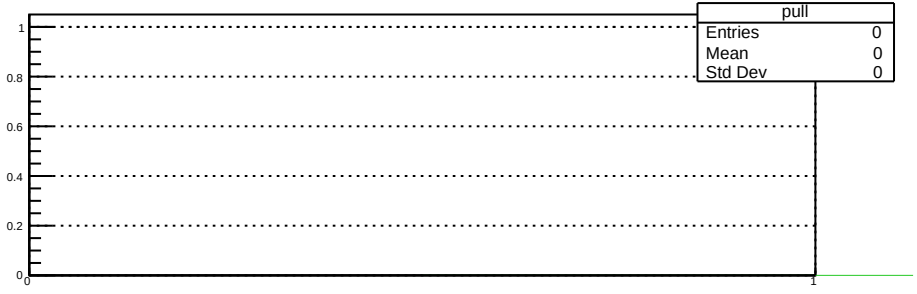

yield_sam8_rms vs run
χ² / ndf 4.312e+04 / 11
p0 0.004657 ± 9.692e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

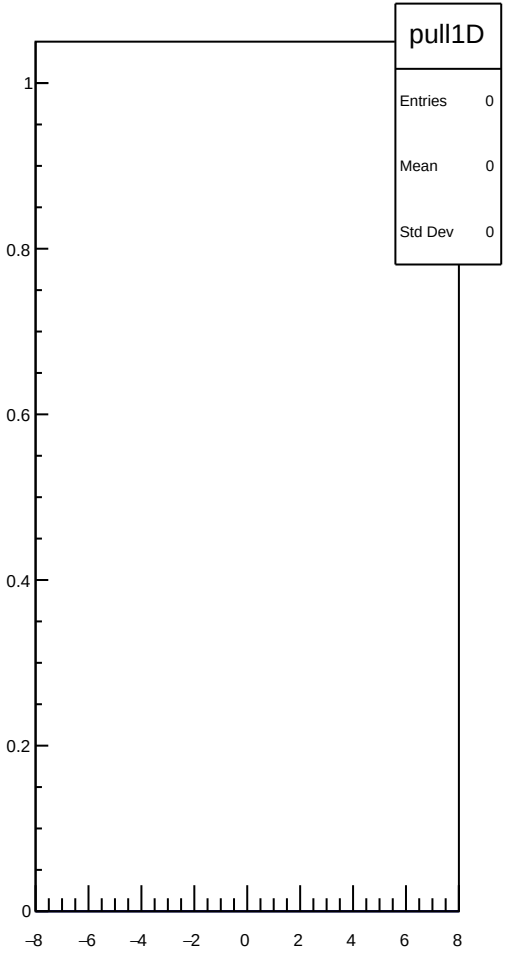

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

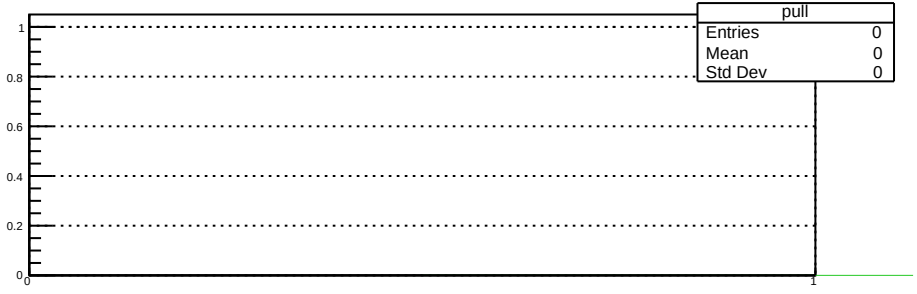

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

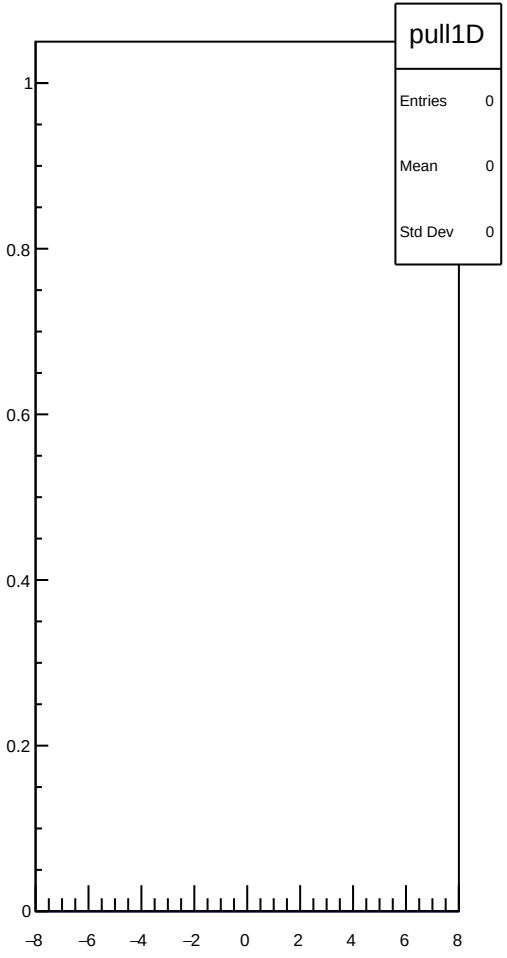

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

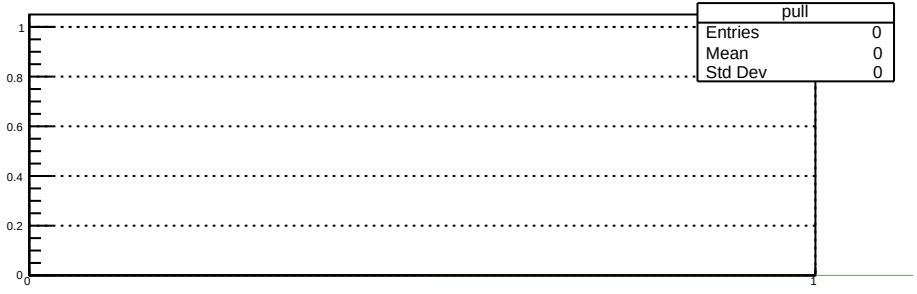

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

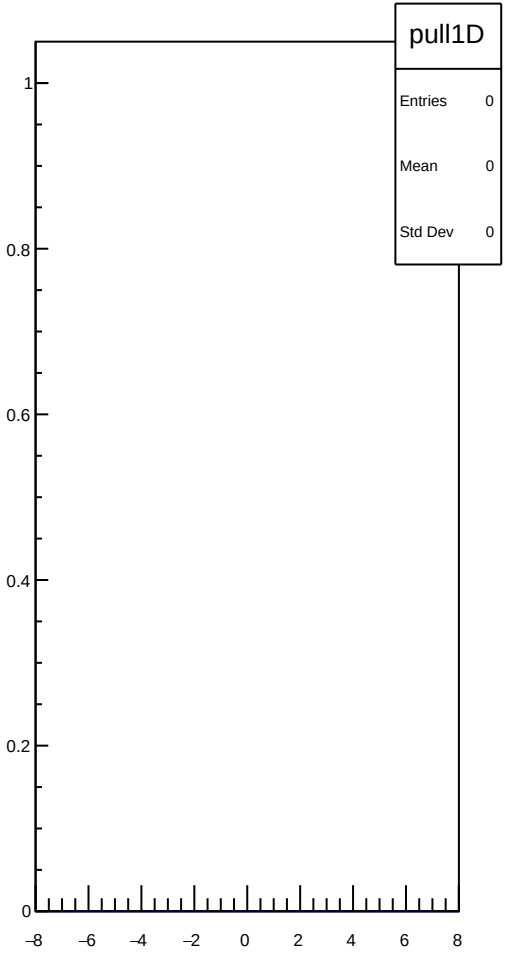

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

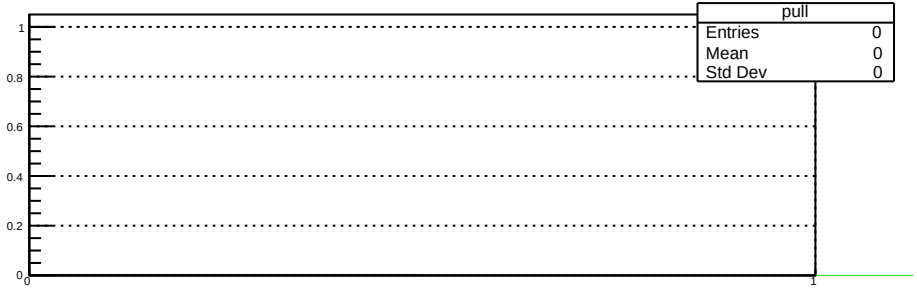

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

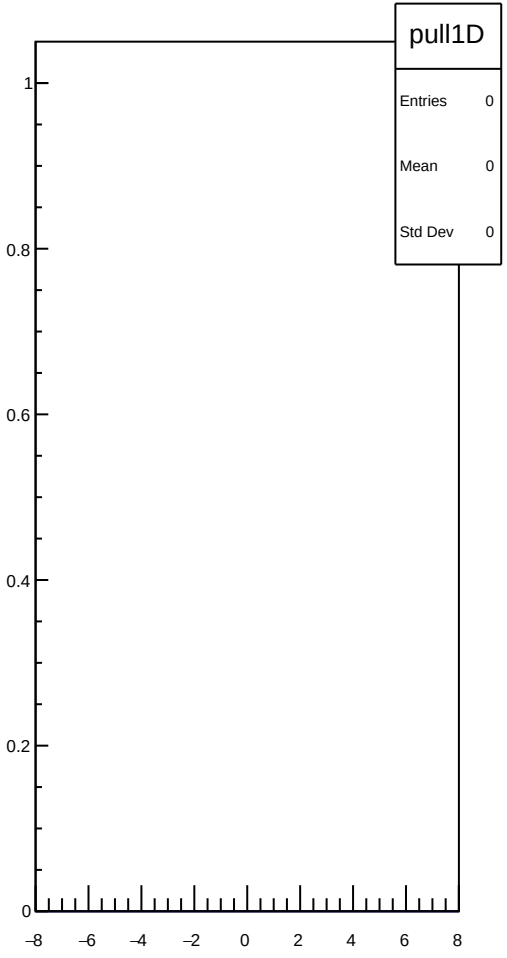

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

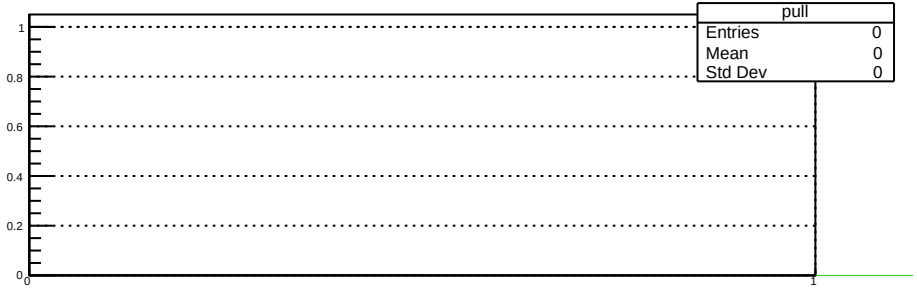

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

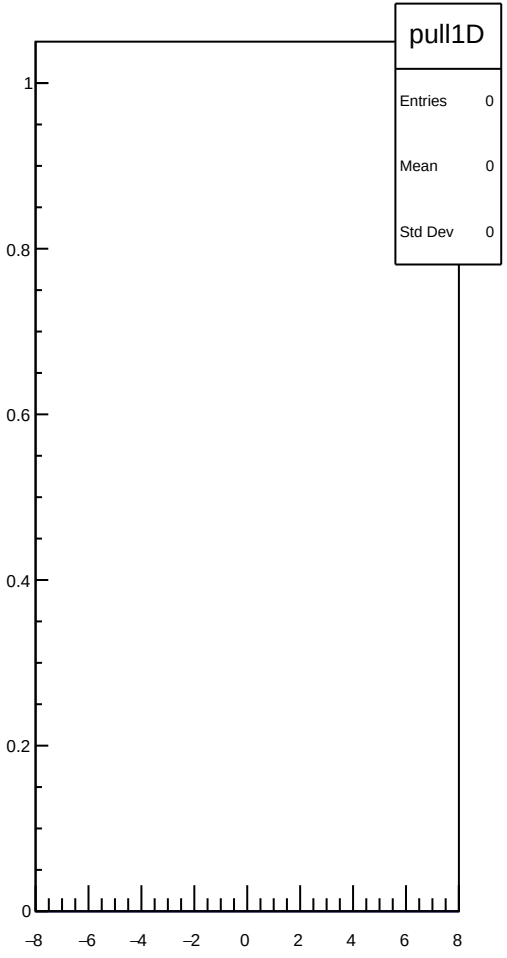

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

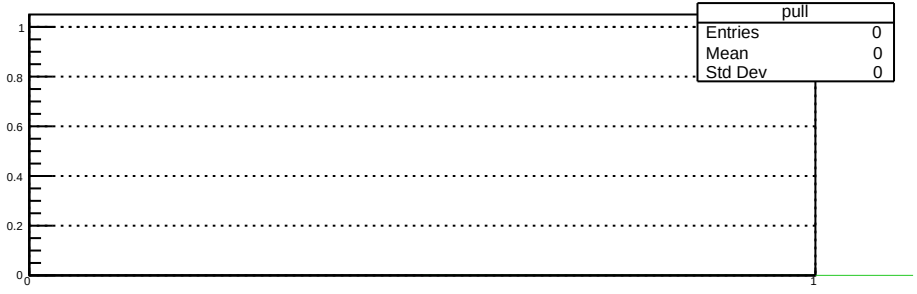

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

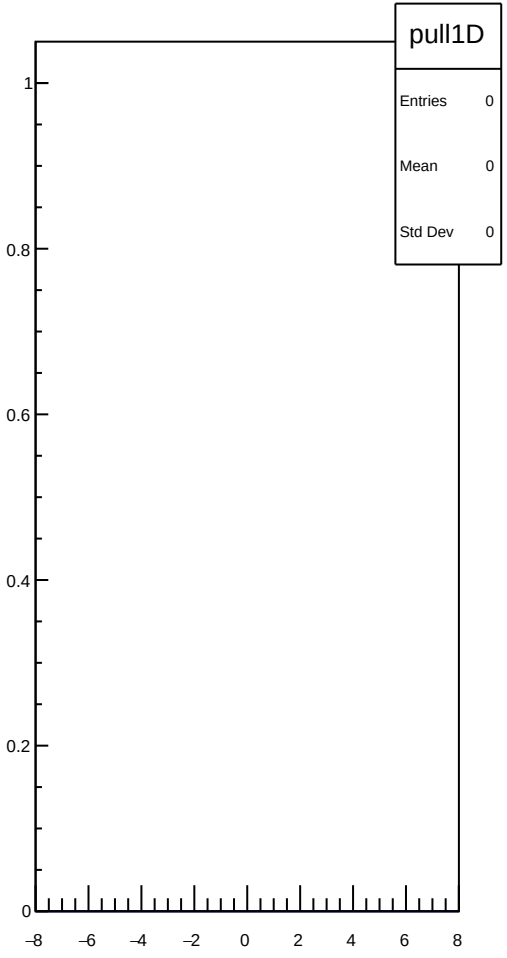

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

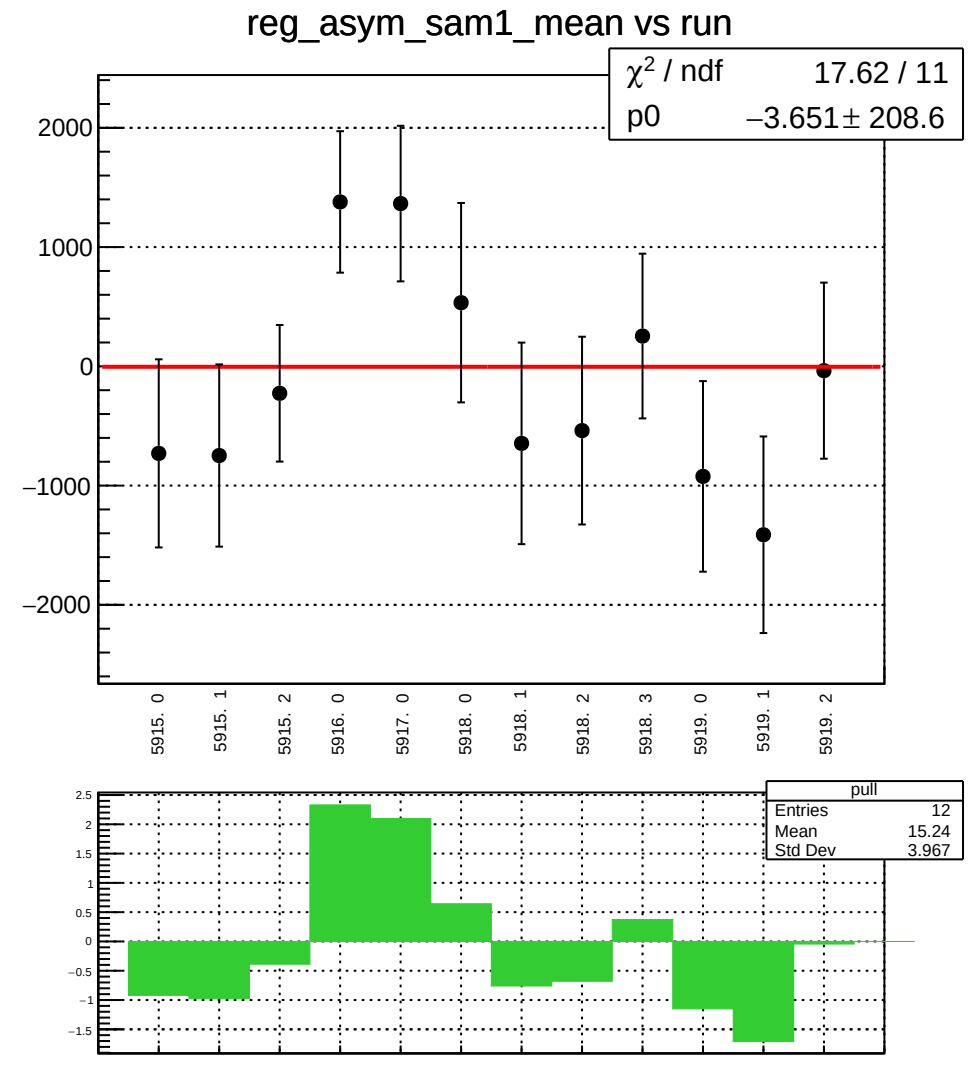

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

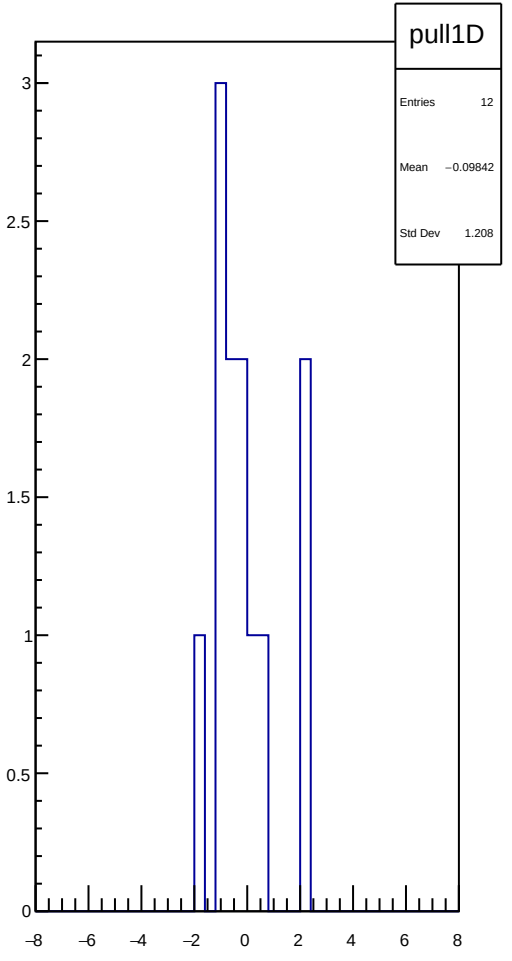

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

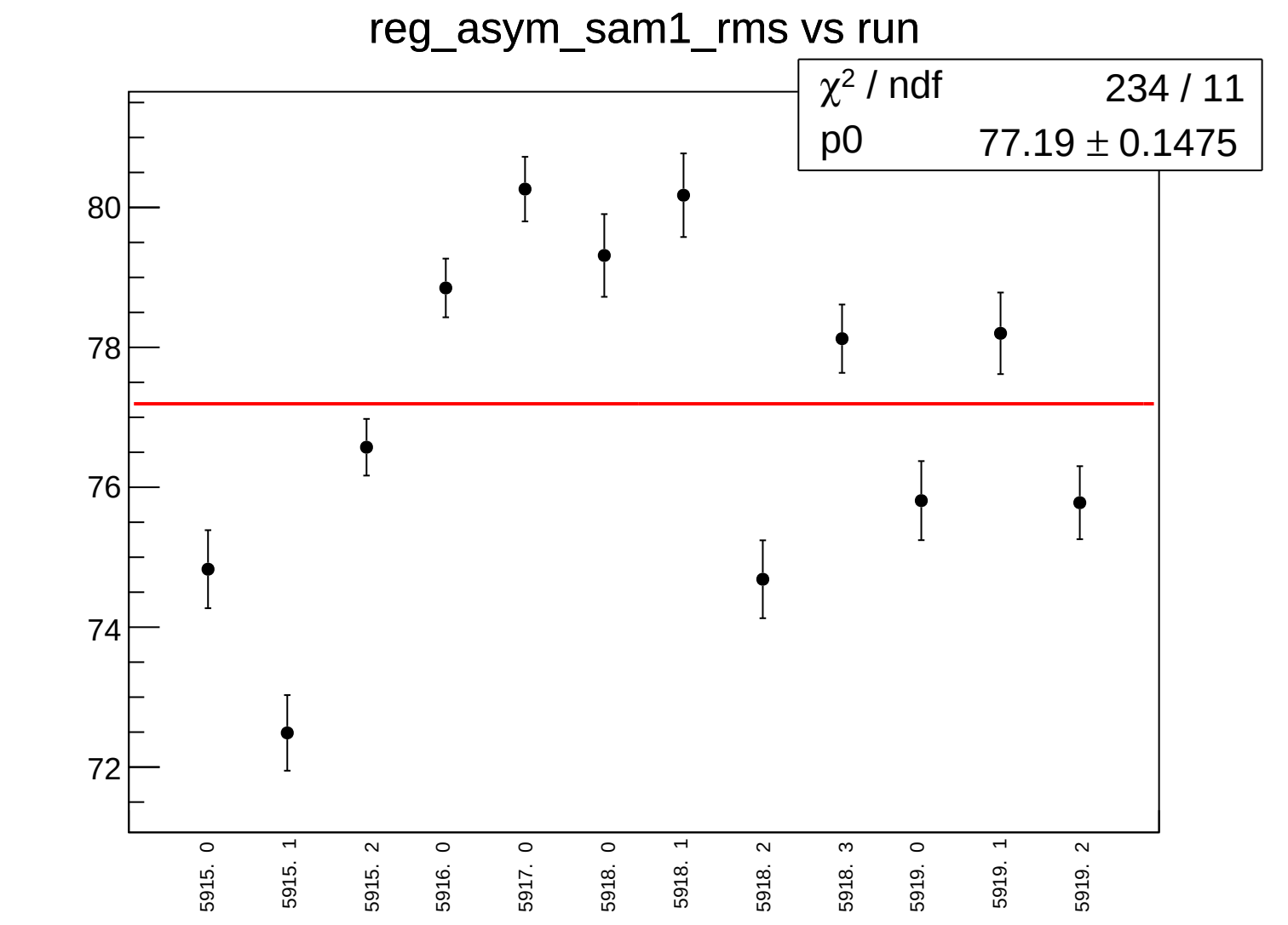

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

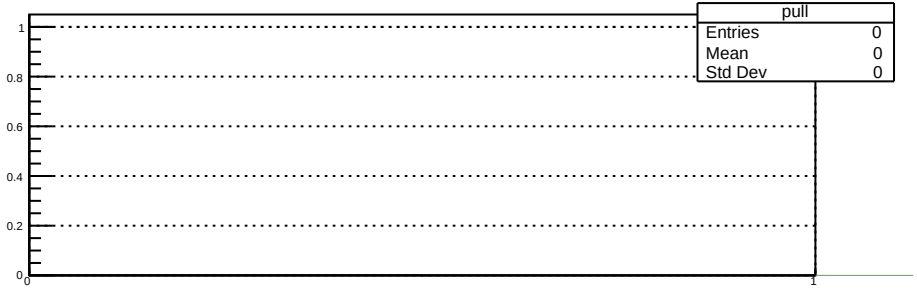

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

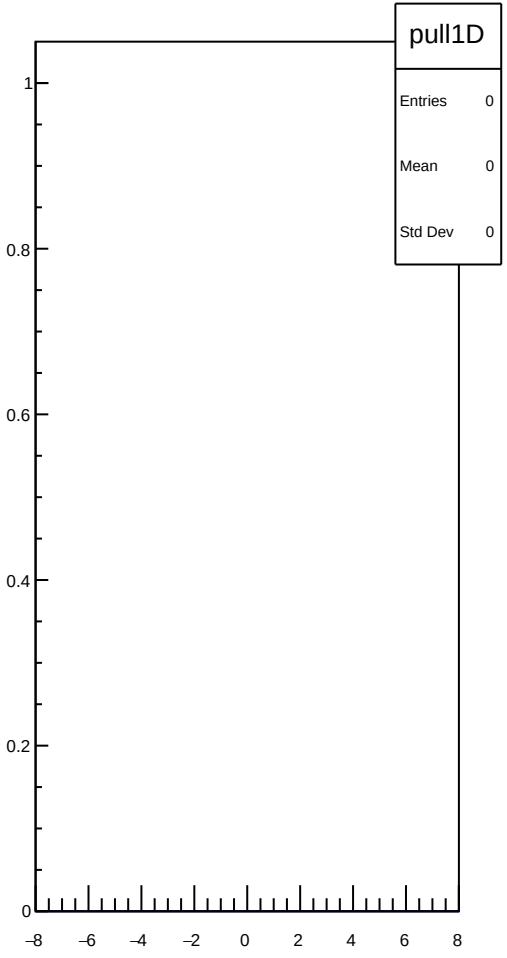

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

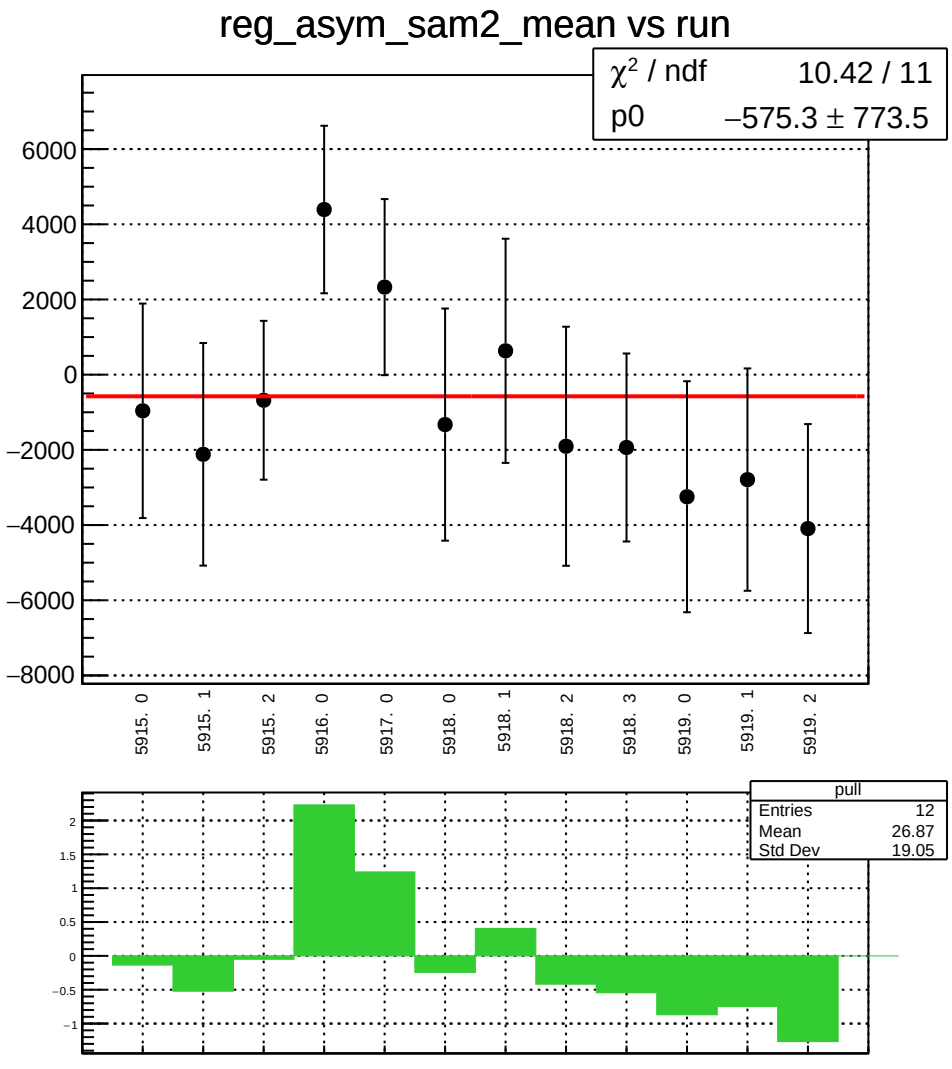

reg_asym_sam1_mean vs run
χ² / ndf 17.62 / 11
p0 −3.651 ± 208.6
2000
1000
0
−1000
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 15.24
Std Dev 3.967
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

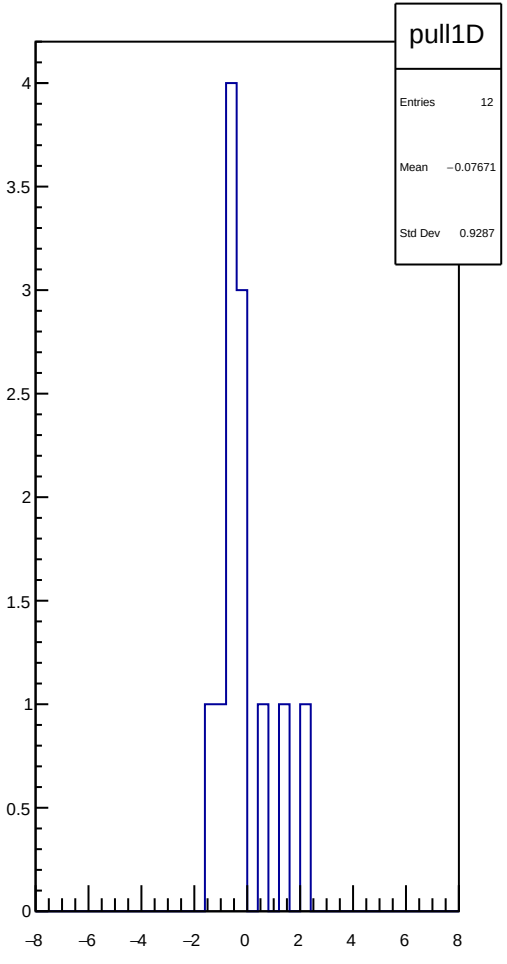

pull1D
Entries 12
Mean −0.09842
Std Dev 1.208
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

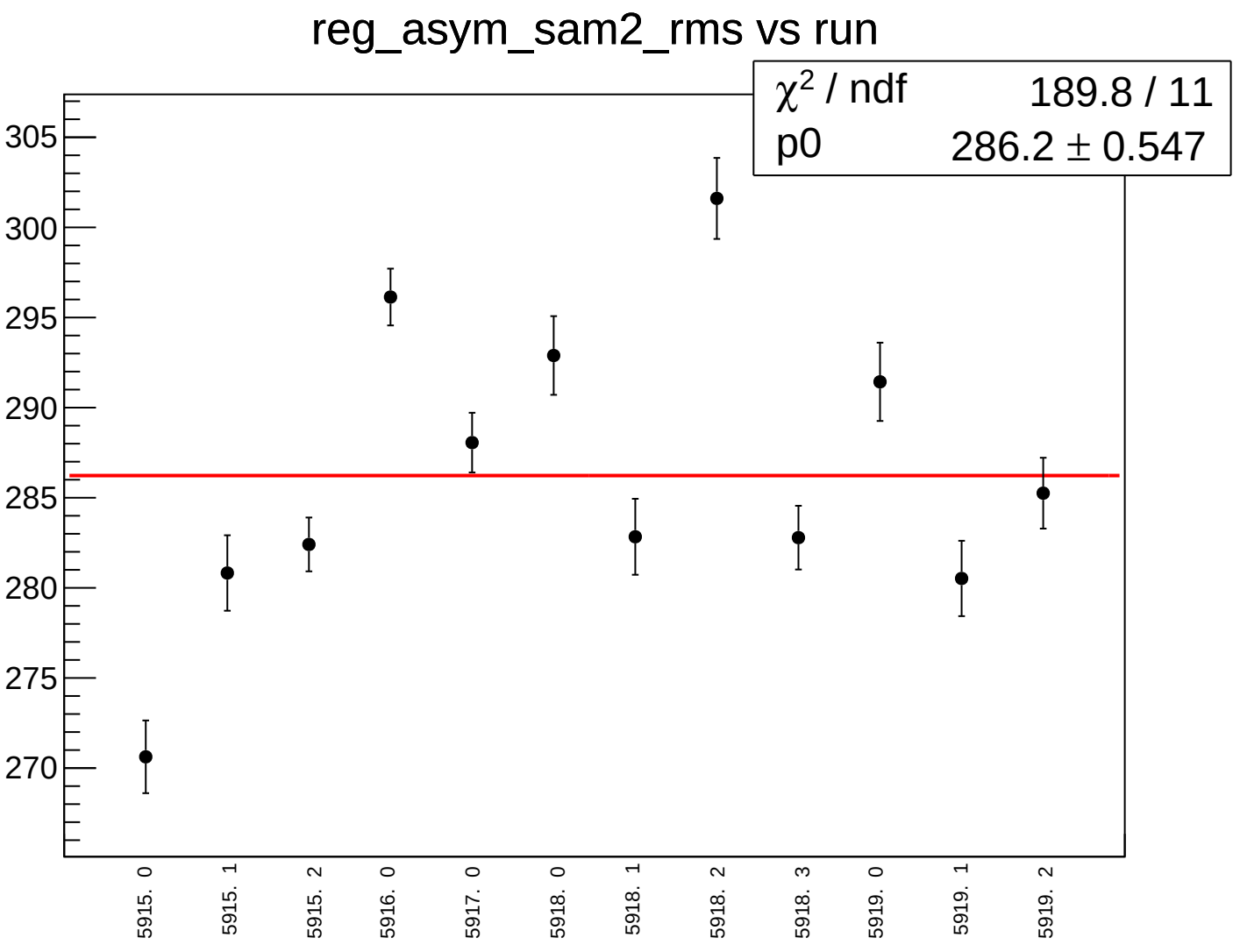

reg_asym_sam1_rms vs run
χ² / ndf 234 / 11
p0 77.19 ± 0.1475
80
78
76
74
72
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

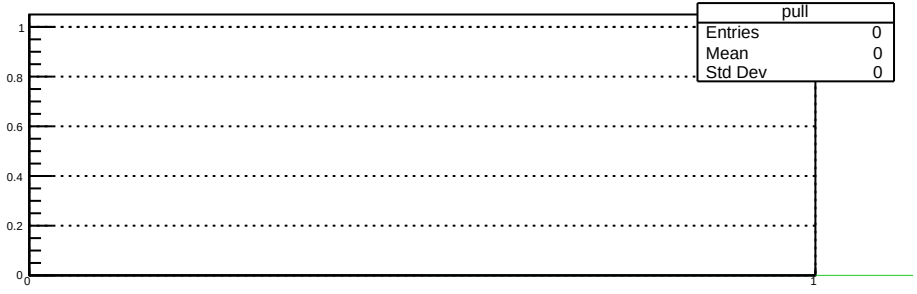

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

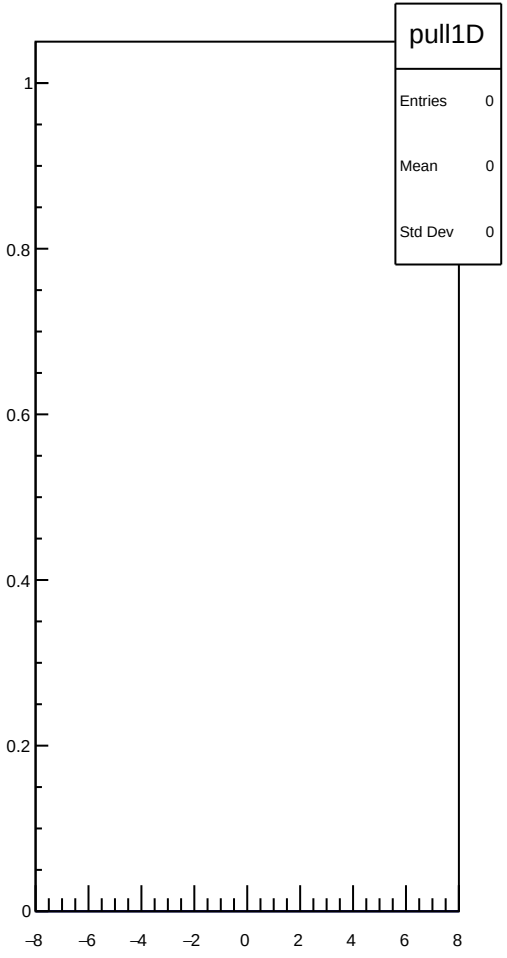

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

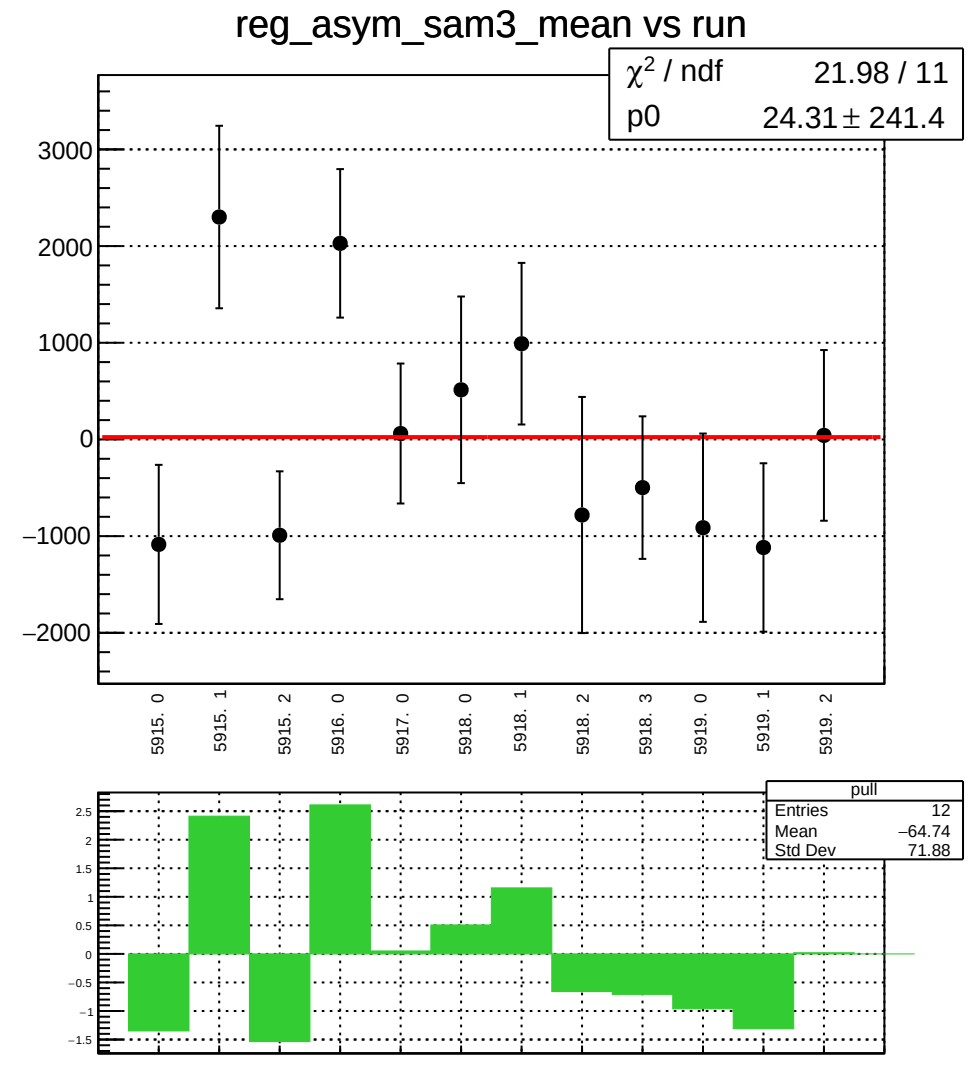

reg_asym_sam2_mean vs run
χ² / ndf 10.42 / 11
p0 −575.3 ± 773.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 26.87
Std Dev 19.05
2
1.5
1
0.5
0
−0.5
−1

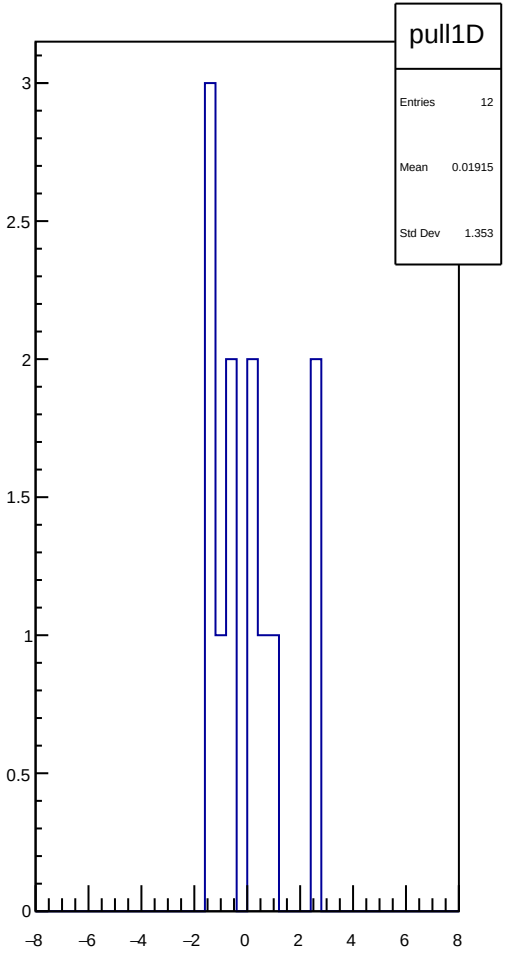

pull1D
Entries 12
Mean −0.07671
Std Dev 0.9287
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

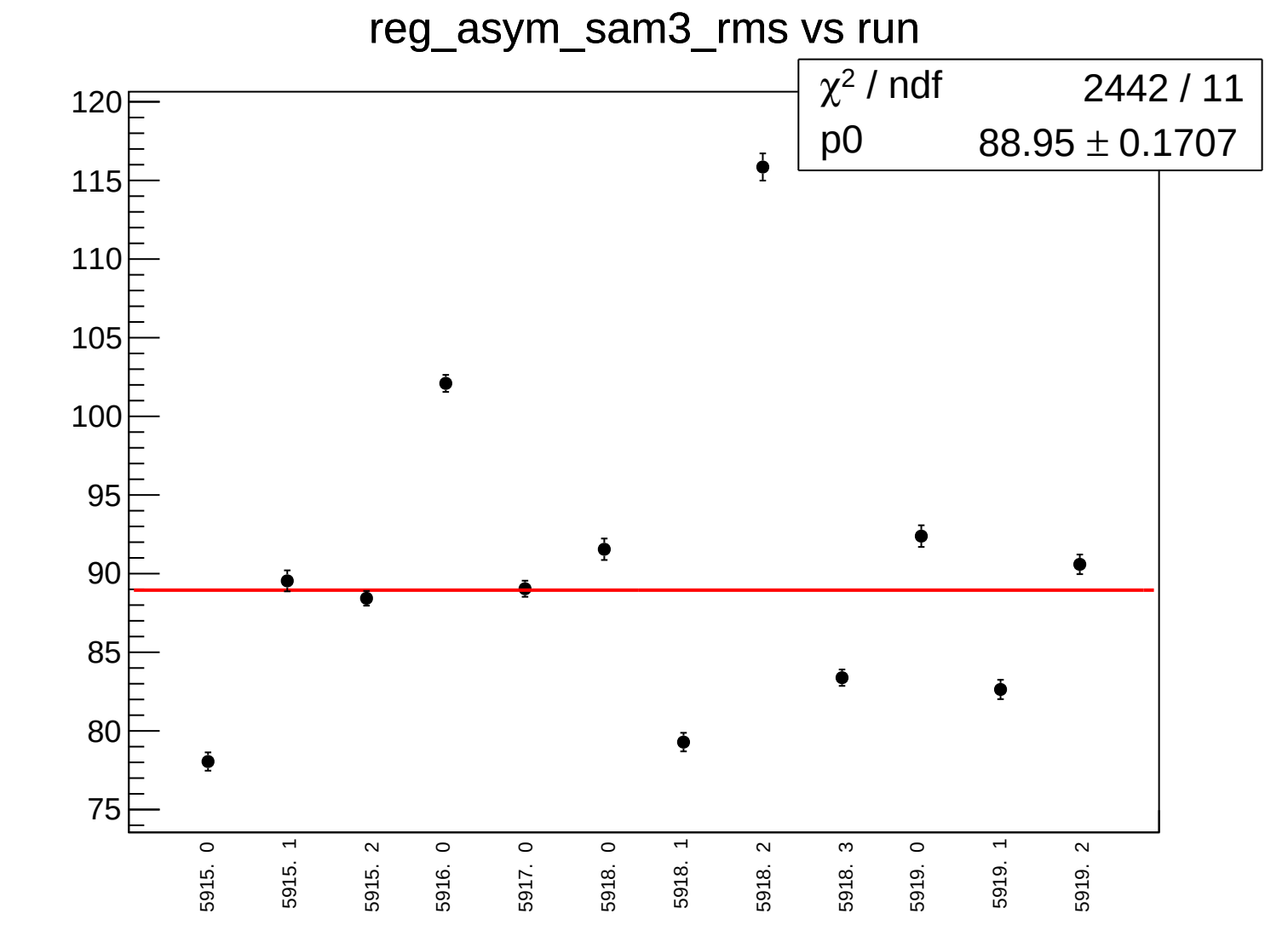

reg_asym_sam2_rms vs run
χ² / ndf 189.8 / 11
p0 286.2 ± 0.547
305
300
295
290
285
280
275
270
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

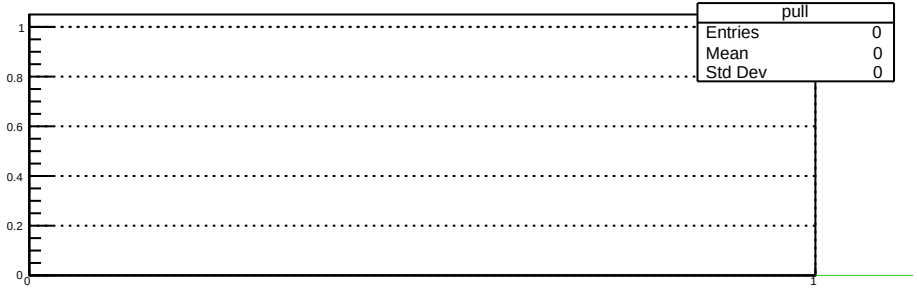

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

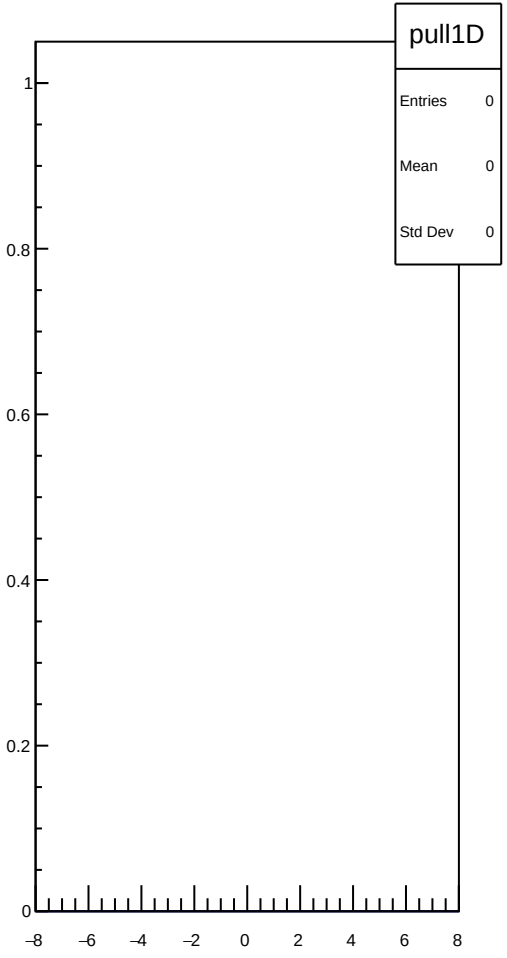

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

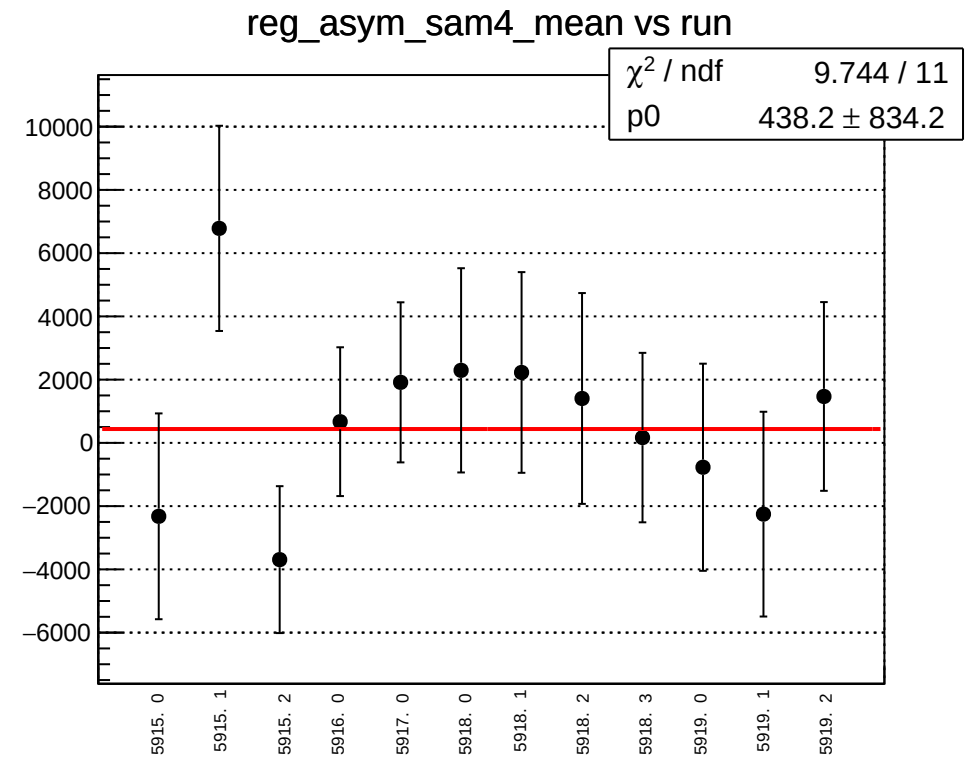

reg_asym_sam3_mean vs run
χ² / ndf 21.98 / 11
p0 24.31 ± 241.4
3000
2000
1000
0
−1000
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −64.74
Std Dev 71.88
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

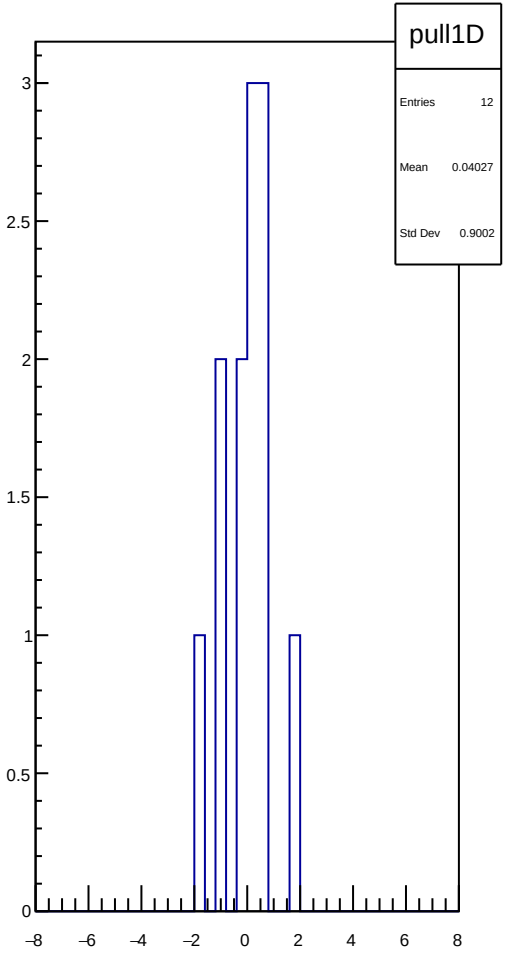

pull1D
Entries 12
Mean 0.01915
Std Dev 1.353
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

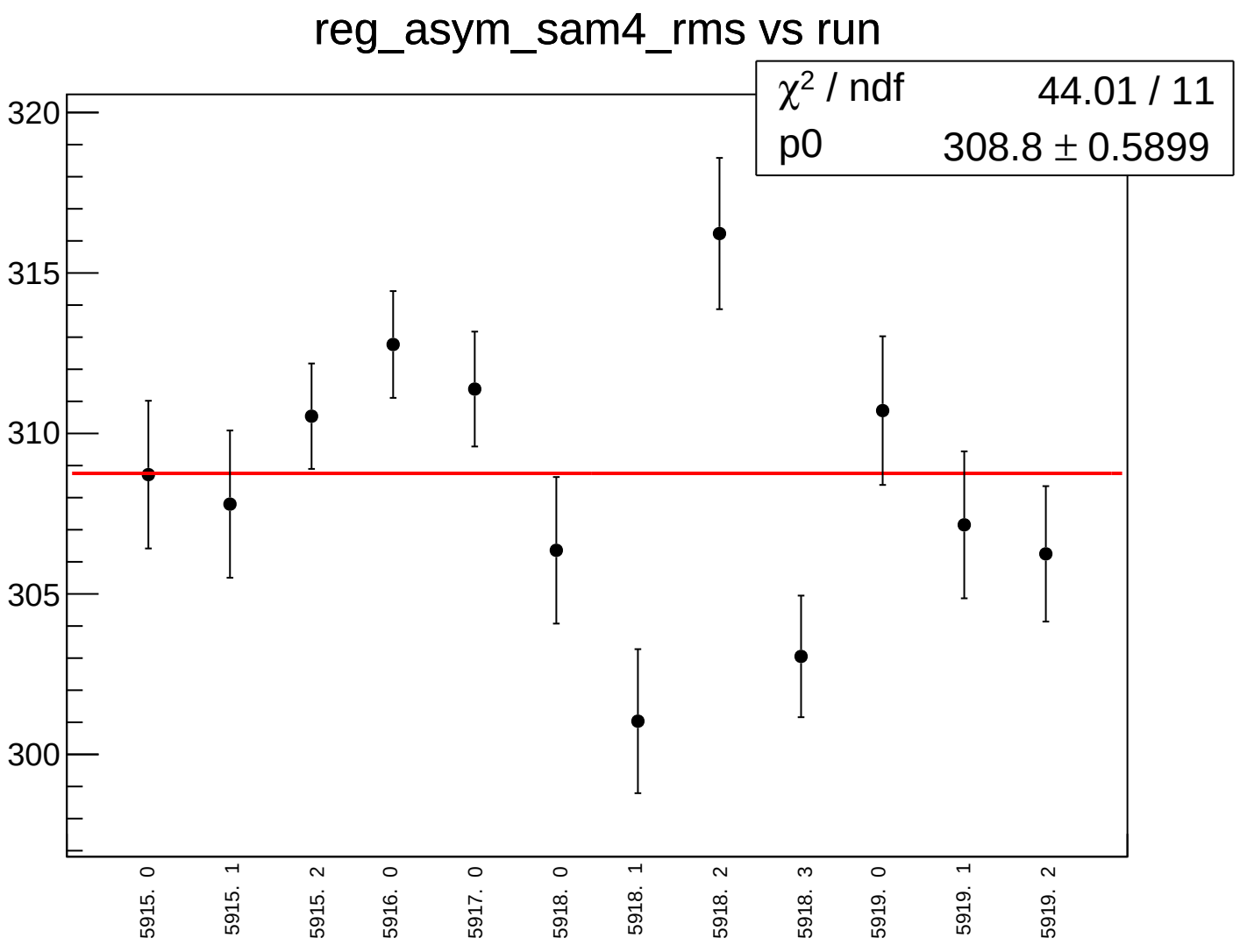

reg_asym_sam3_rms vs run
χ² / ndf 2442 / 11
p0 88.95 ± 0.1707
120
115
110
105
100
95
90
85
80
75
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

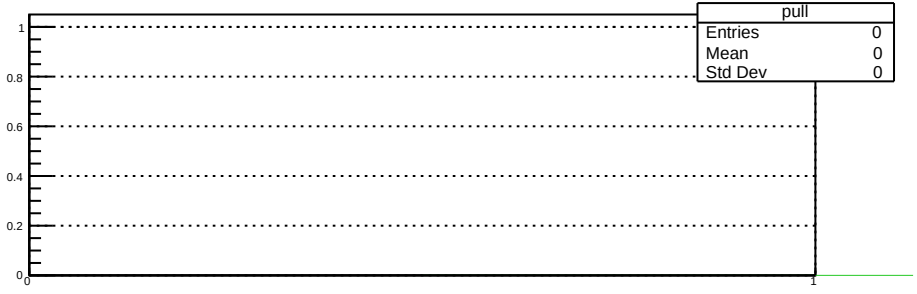

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

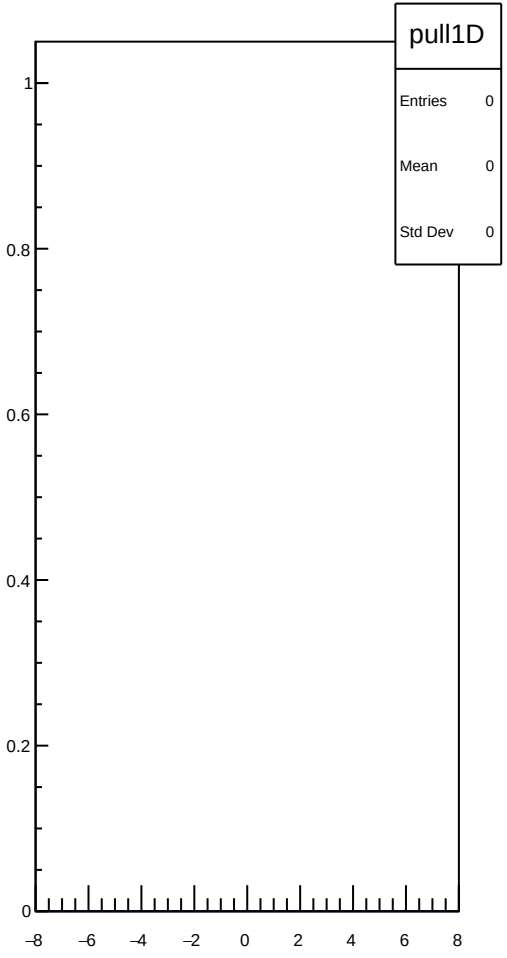

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

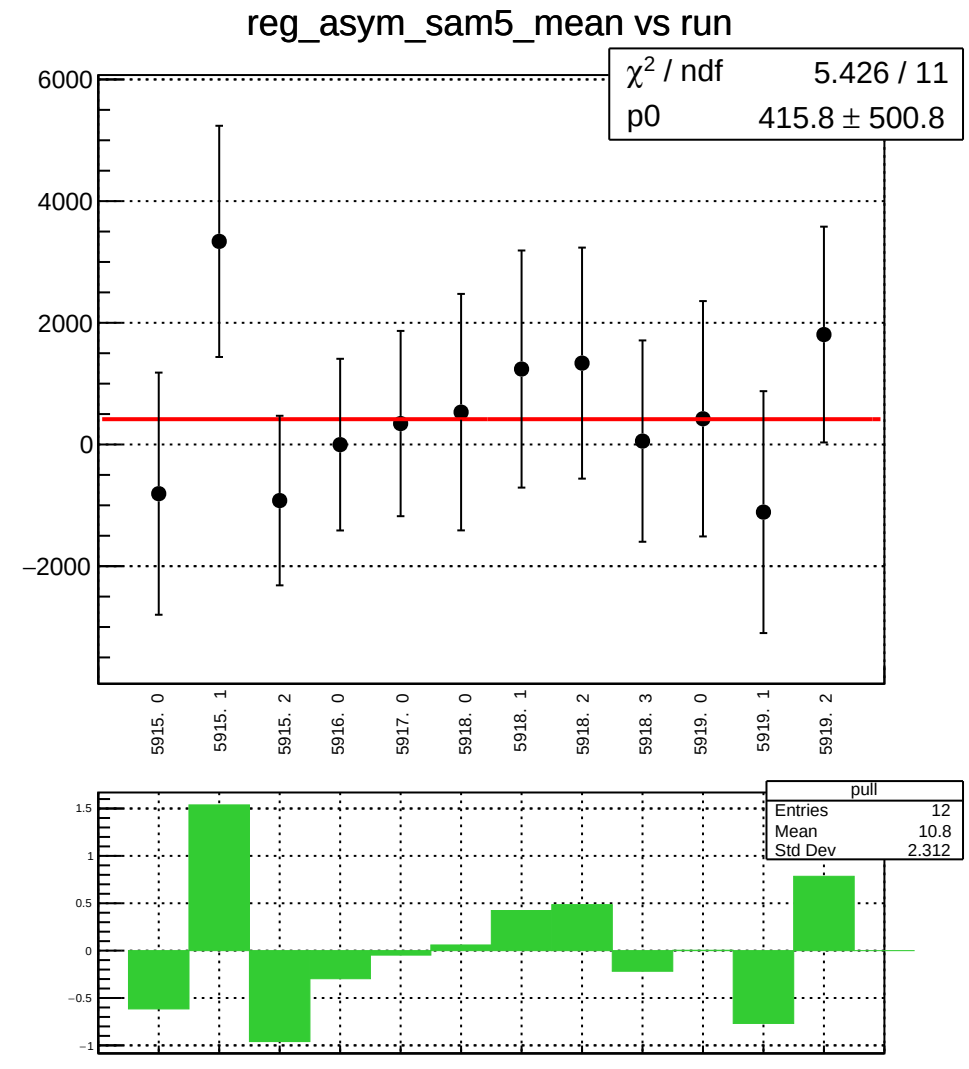

reg_asym_sam4_mean vs run
χ² / ndf 9.744 / 11
p0 438.2 ± 834.2
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 1.879
Std Dev 7.153
2
1.5
1
0.5
0
−0.5
−1
−1.5

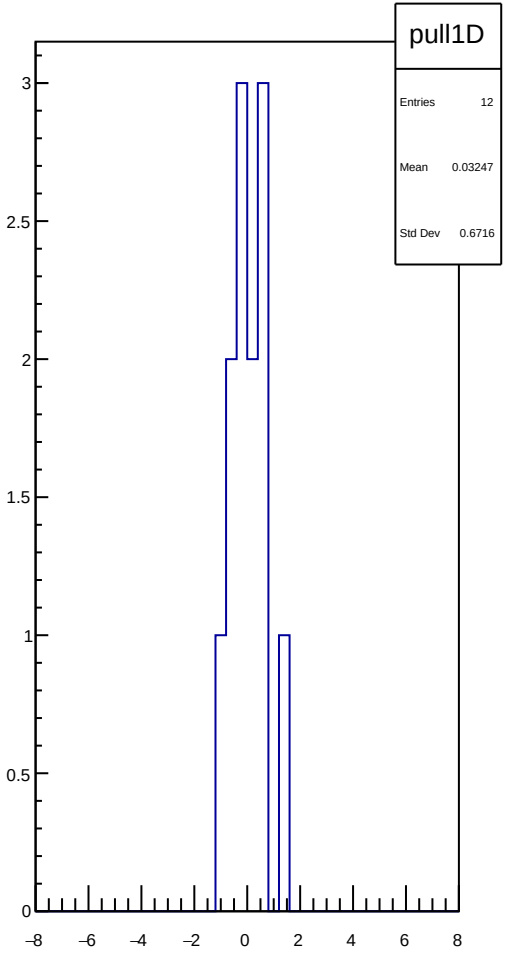

pull1D
Entries 12
Mean 0.04027
Std Dev 0.9002
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

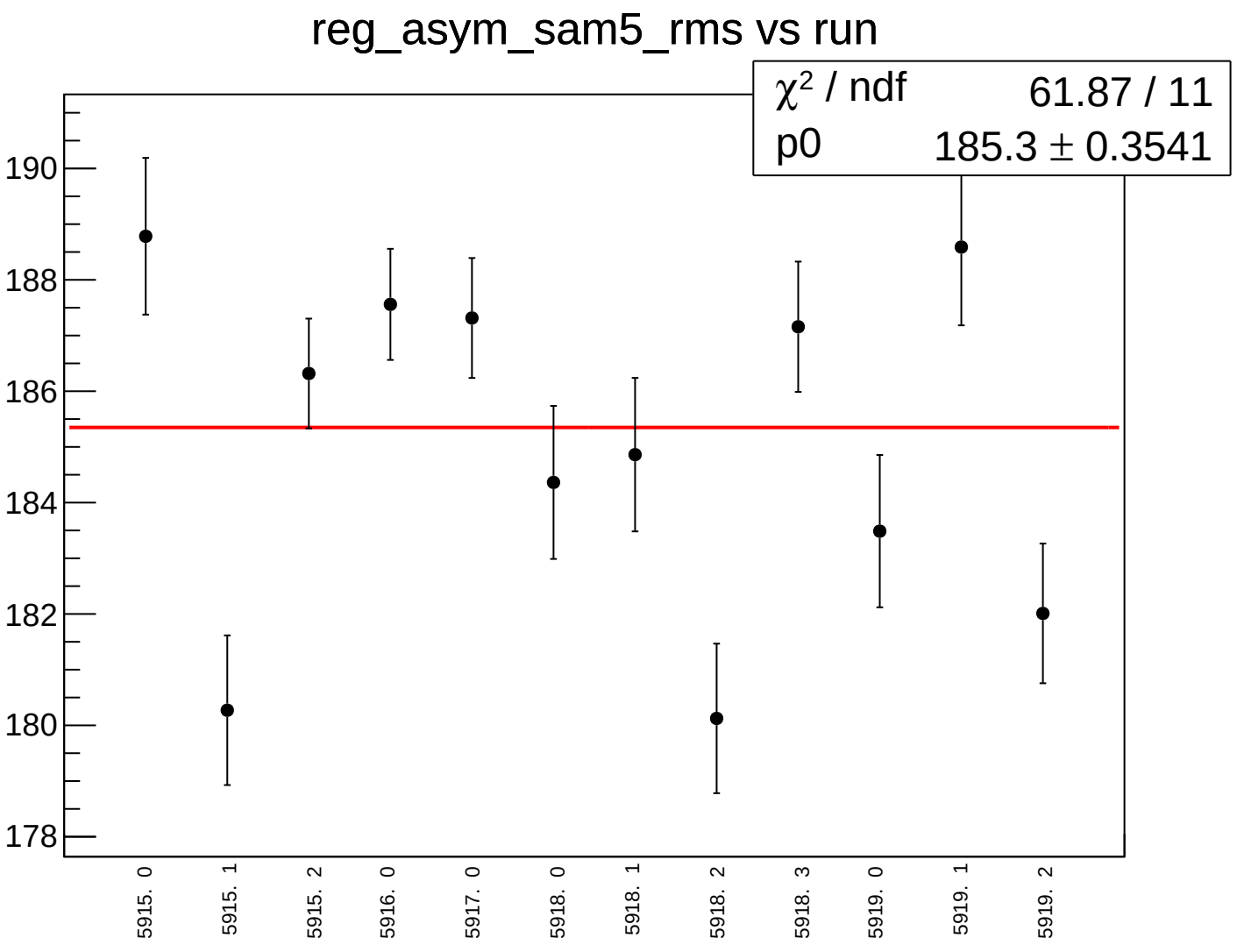

reg_asym_sam4_rms vs run
χ² / ndf 44.01 / 11
p0 308.8 ± 0.5899
320
315
310
305
300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

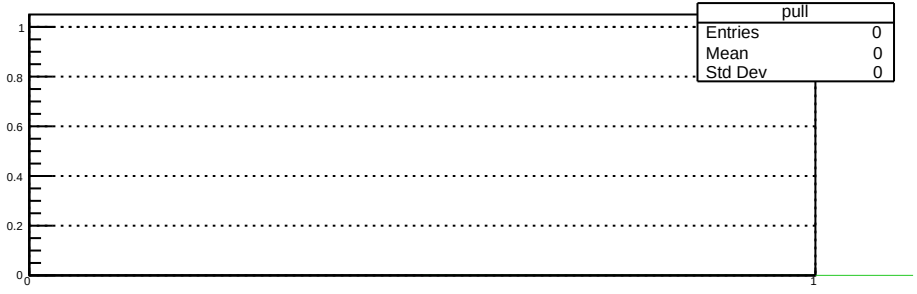

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

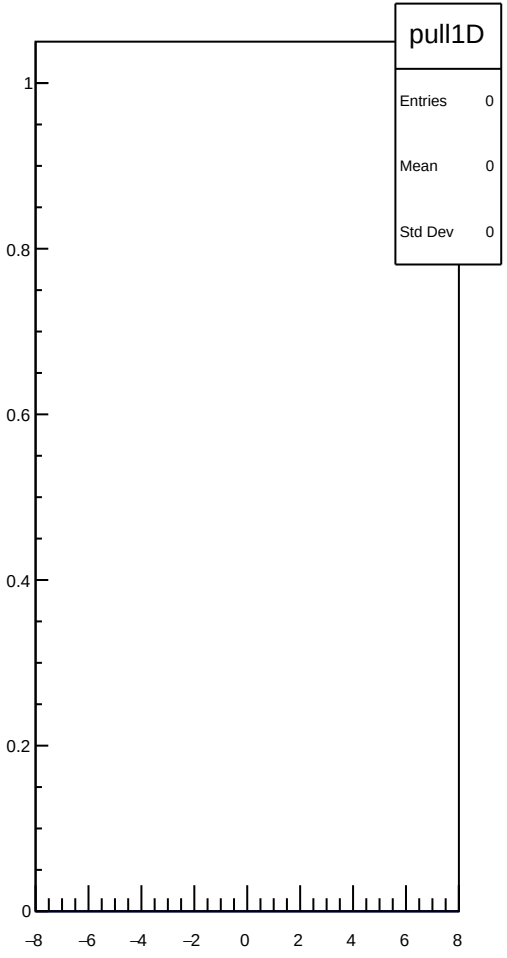

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

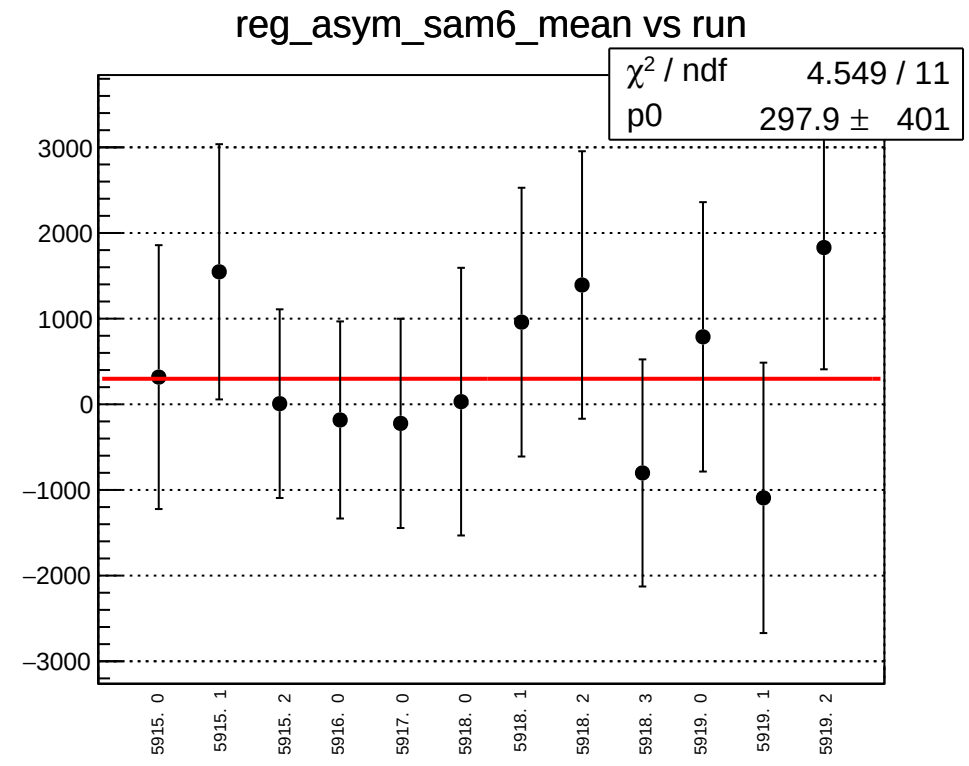

reg_asym_sam5_mean vs run
χ² / ndf 5.426 / 11
p0 415.8 ± 500.8
6000
4000
2000
0
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 10.8
Std Dev 2.312
1.5
1
0.5
0
−0.5
−1

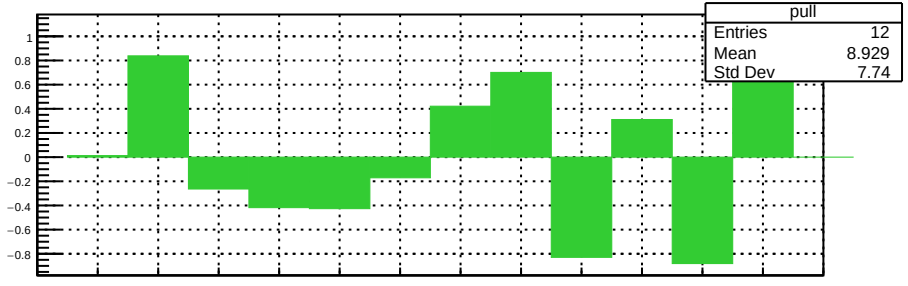

pull1D
Entries 12
Mean 0.03247
Std Dev 0.6716
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

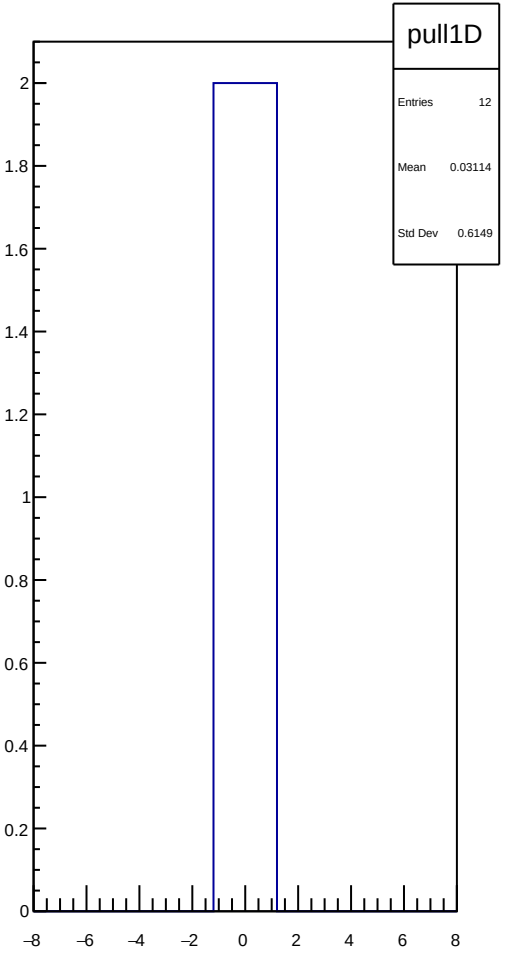

reg_asym_sam5_rms vs run
χ² / ndf 61.87 / 11
p0 185.3 ± 0.3541
190
188
186
184
182
180
178
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

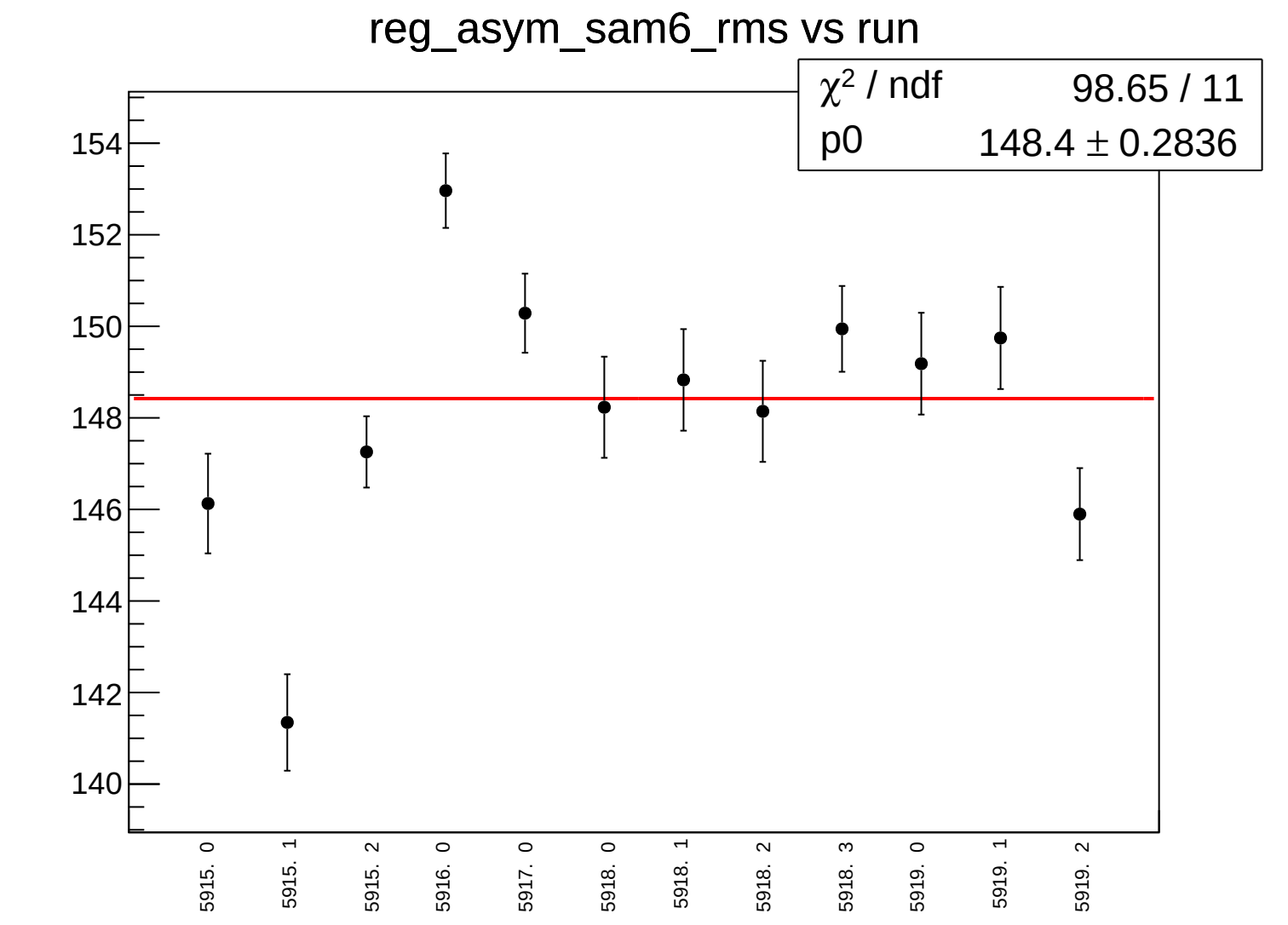

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

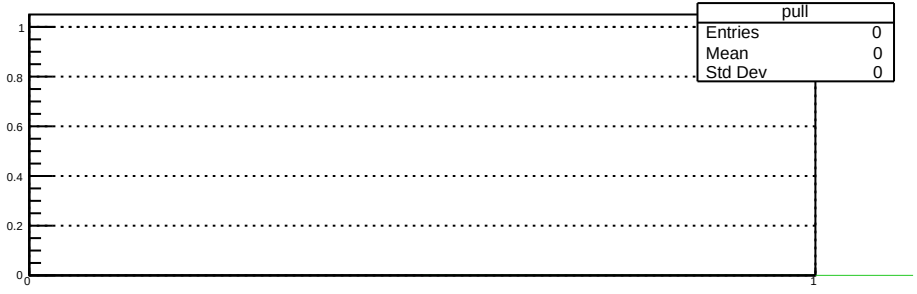

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

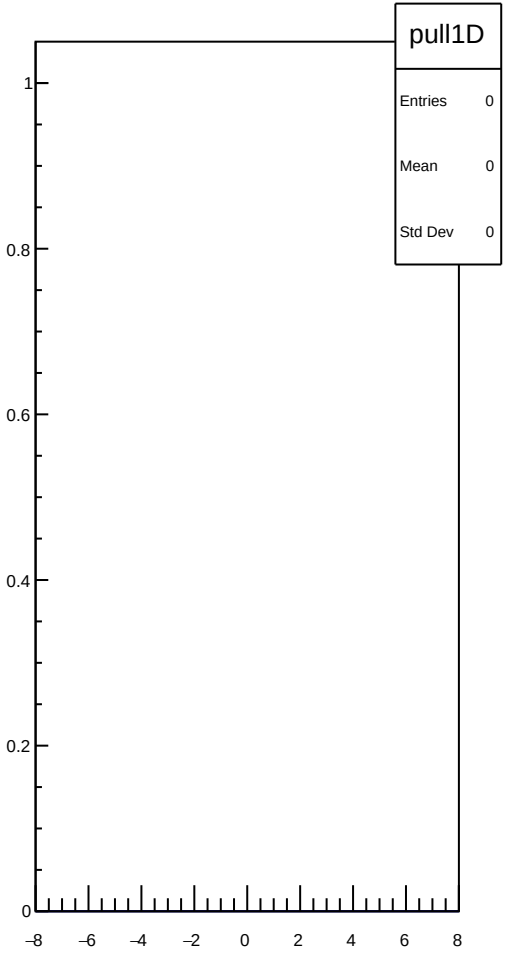

reg_asym_sam6_mean vs run
χ² / ndf 4.549 / 11
p0 297.9 ± 401
3000
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

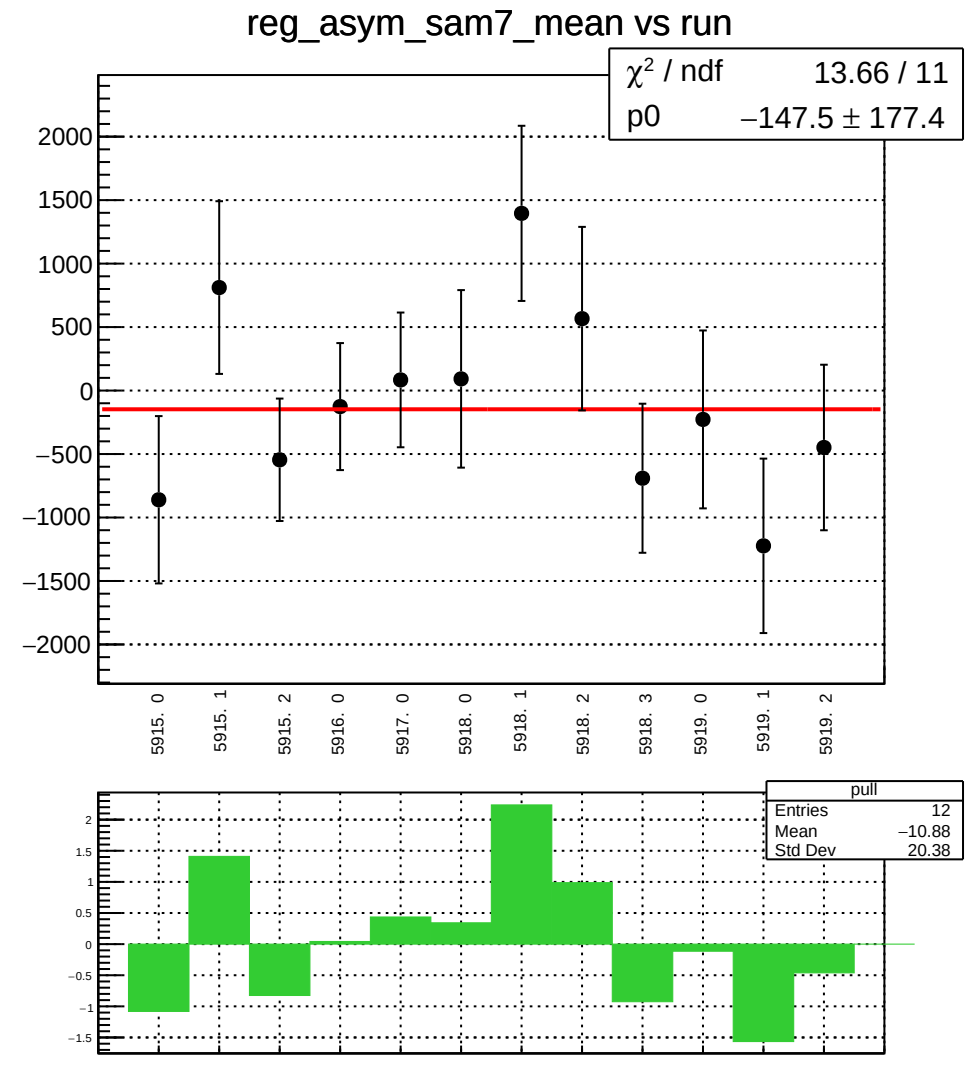

pull
Entries 12
Mean 8.929
Std Dev 7.74
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

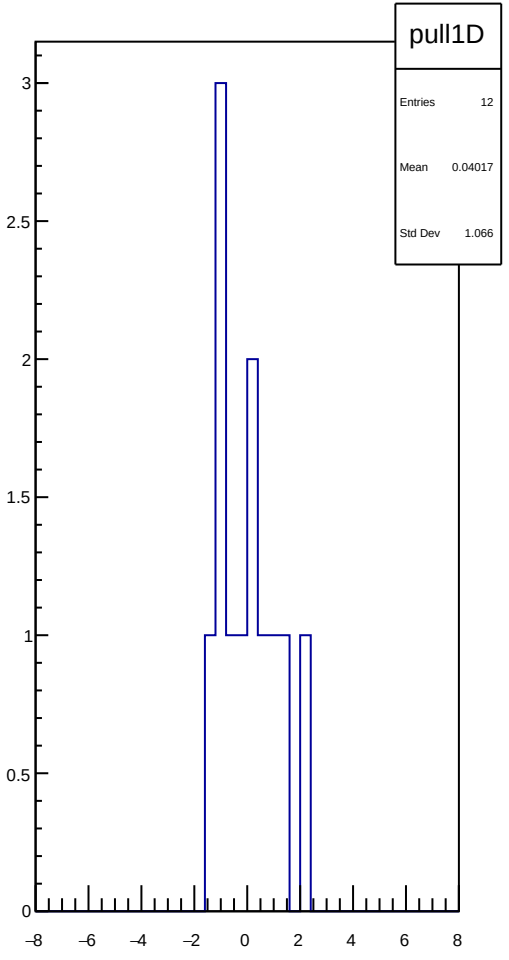

pull1D
Entries 12
Mean 0.03114
Std Dev 0.6149
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

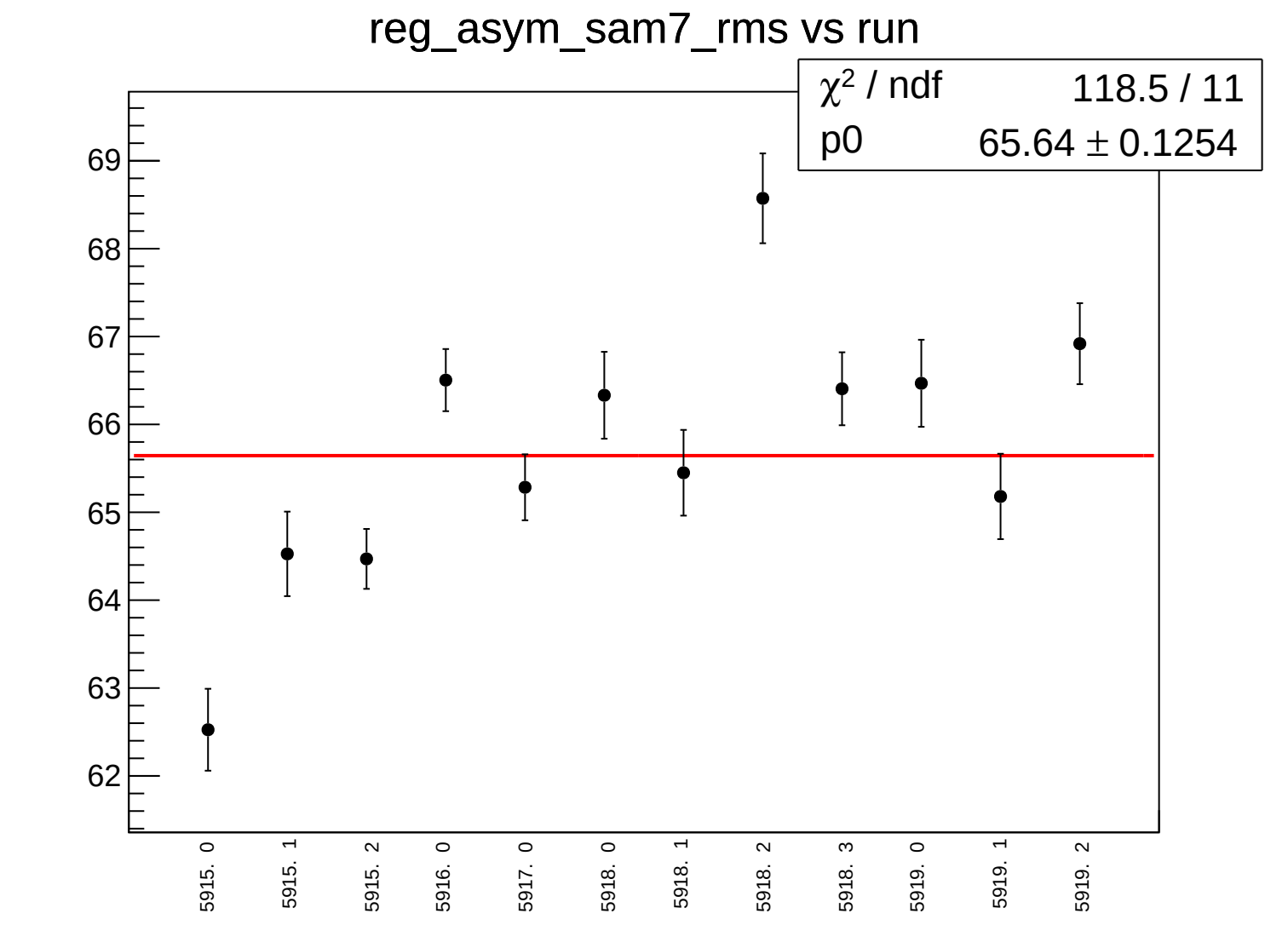

reg_asym_sam6_rms vs run
χ² / ndf 98.65 / 11
p0 148.4 ± 0.2836
154
152
150
148
146
144
142
140
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

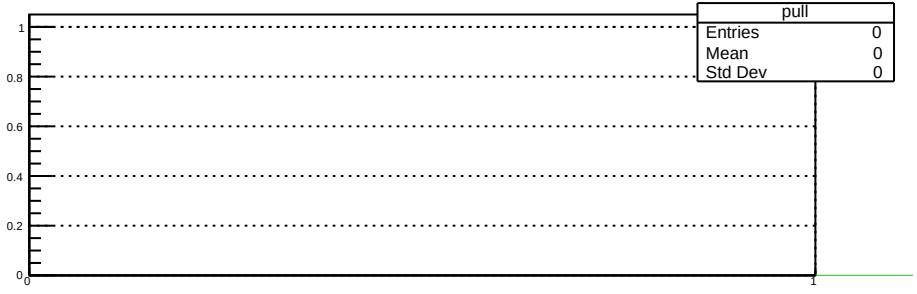

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

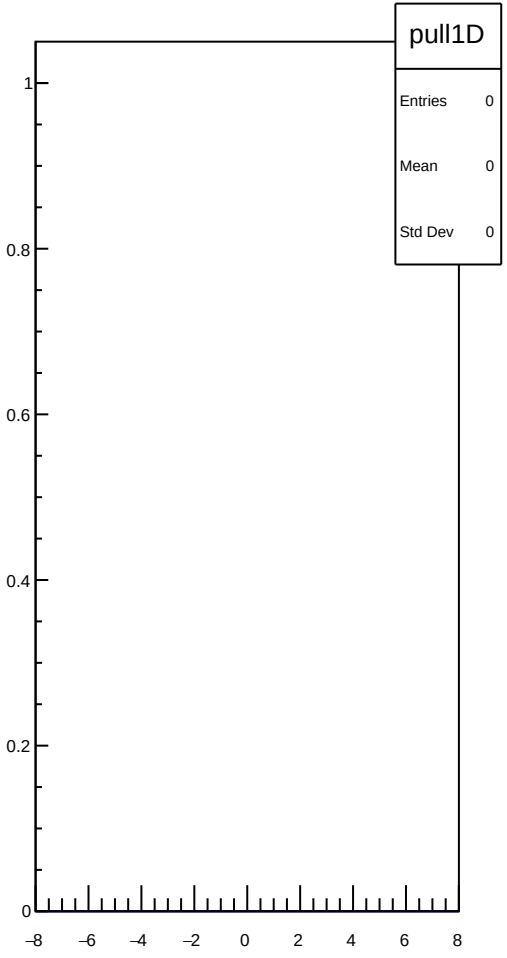

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

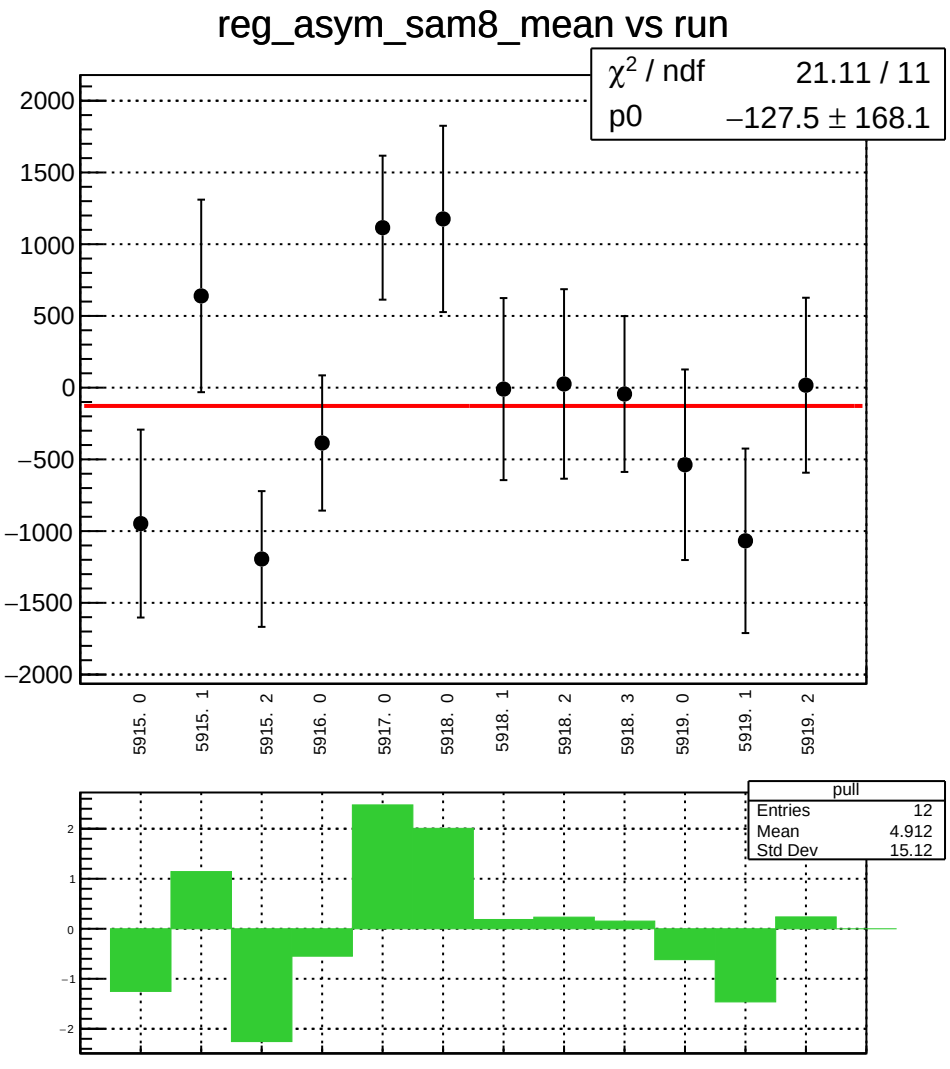

reg_asym_sam7_mean vs run
χ² / ndf 13.66 / 11
p0 −147.5 ± 177.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −10.88
Std Dev 20.38
2
1.5
1
0.5
0
−0.5
−1
−1.5

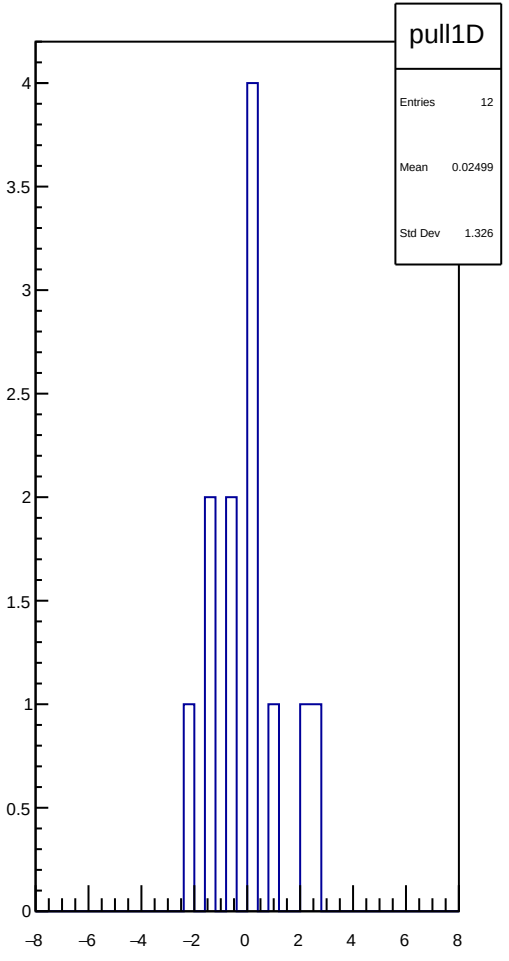

pull1D
Entries 12
Mean 0.04017
Std Dev 1.066
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

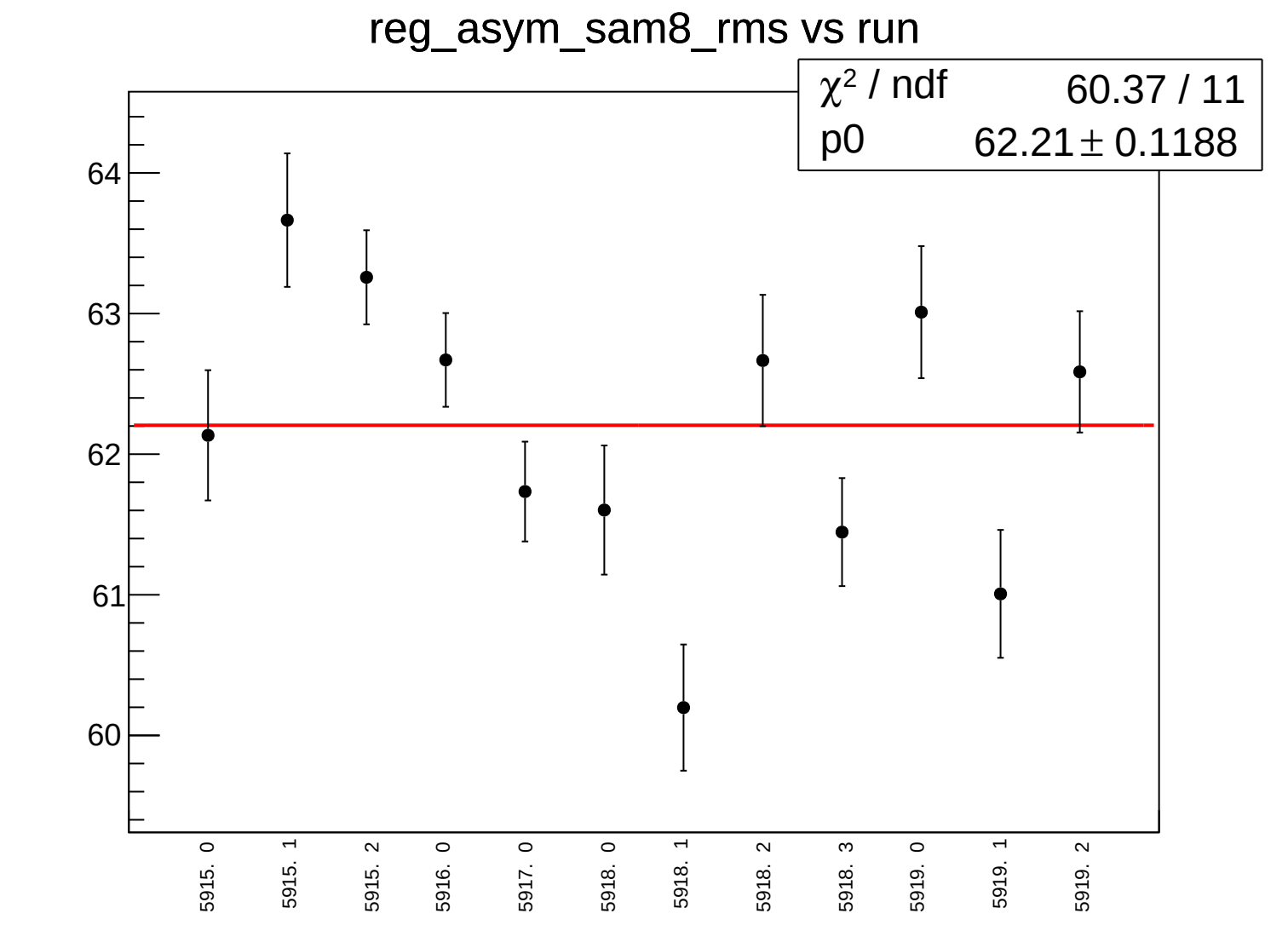

reg_asym_sam7_rms vs run
χ² / ndf 118.5 / 11
p0 65.64 ± 0.1254
69
68
67
66
65
64
63
62
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

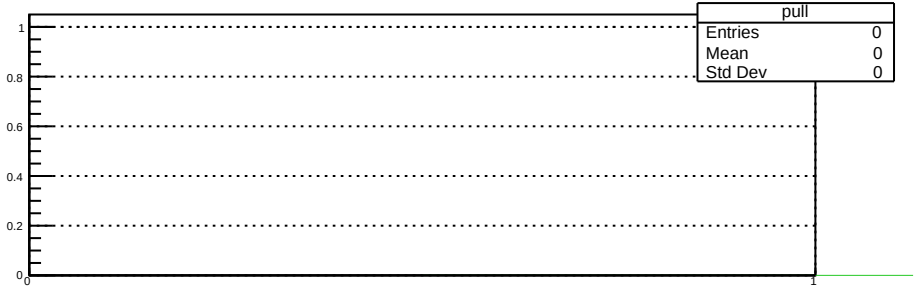

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

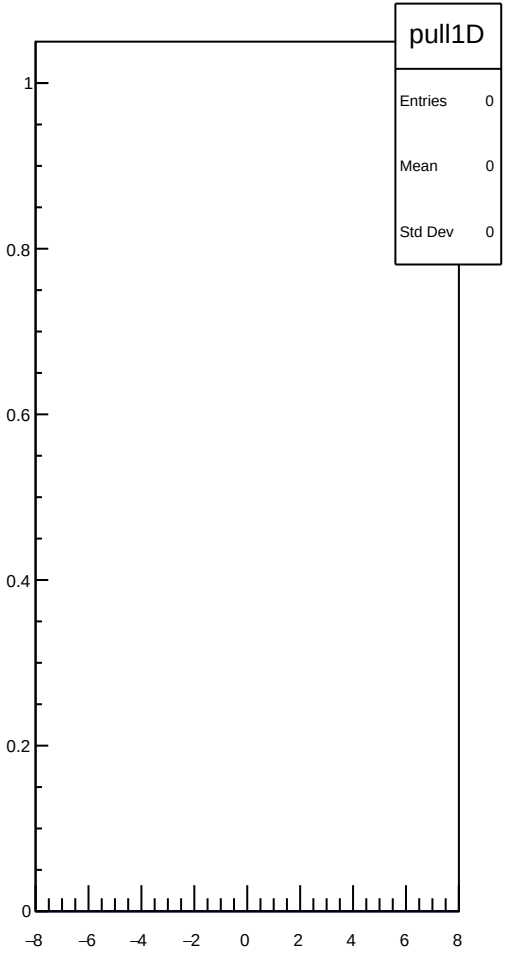

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

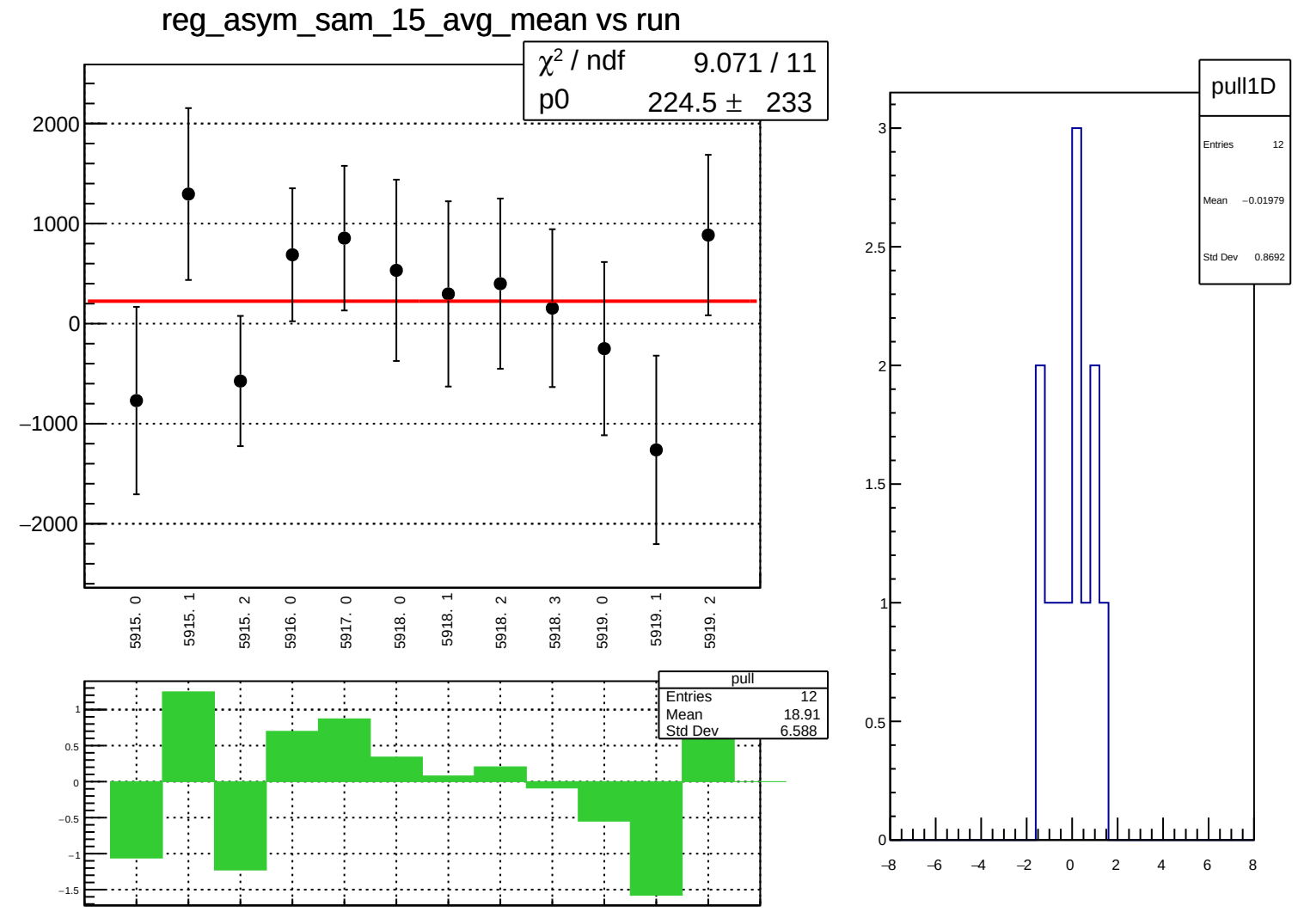

reg_asym_sam8_mean vs run
χ² / ndf 21.11 / 11
p0 −127.5 ± 168.1
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.912
Std Dev 15.12
2
1
0
−1
−2

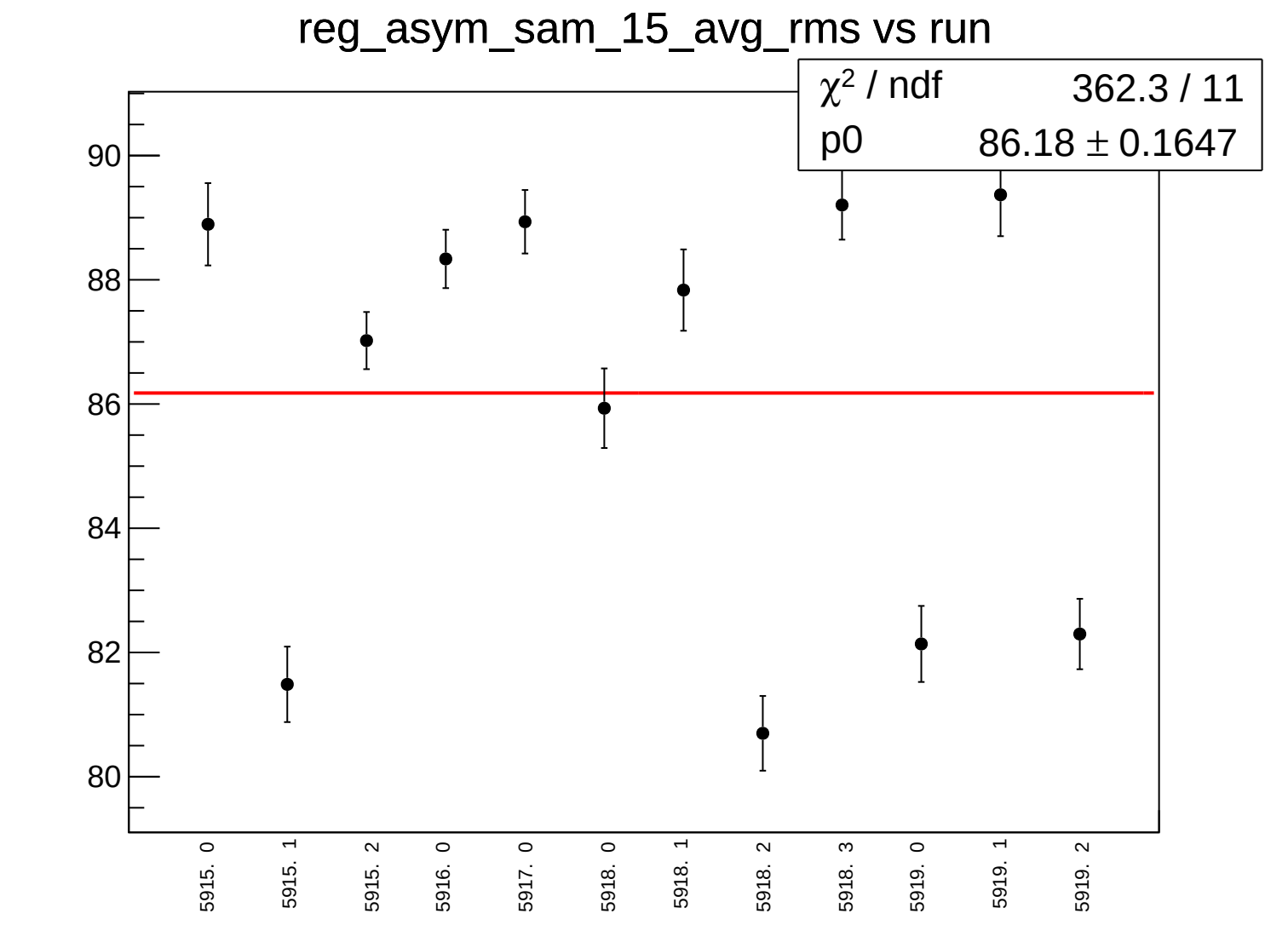

pull1D
Entries 12
Mean 0.02499
Std Dev 1.326
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

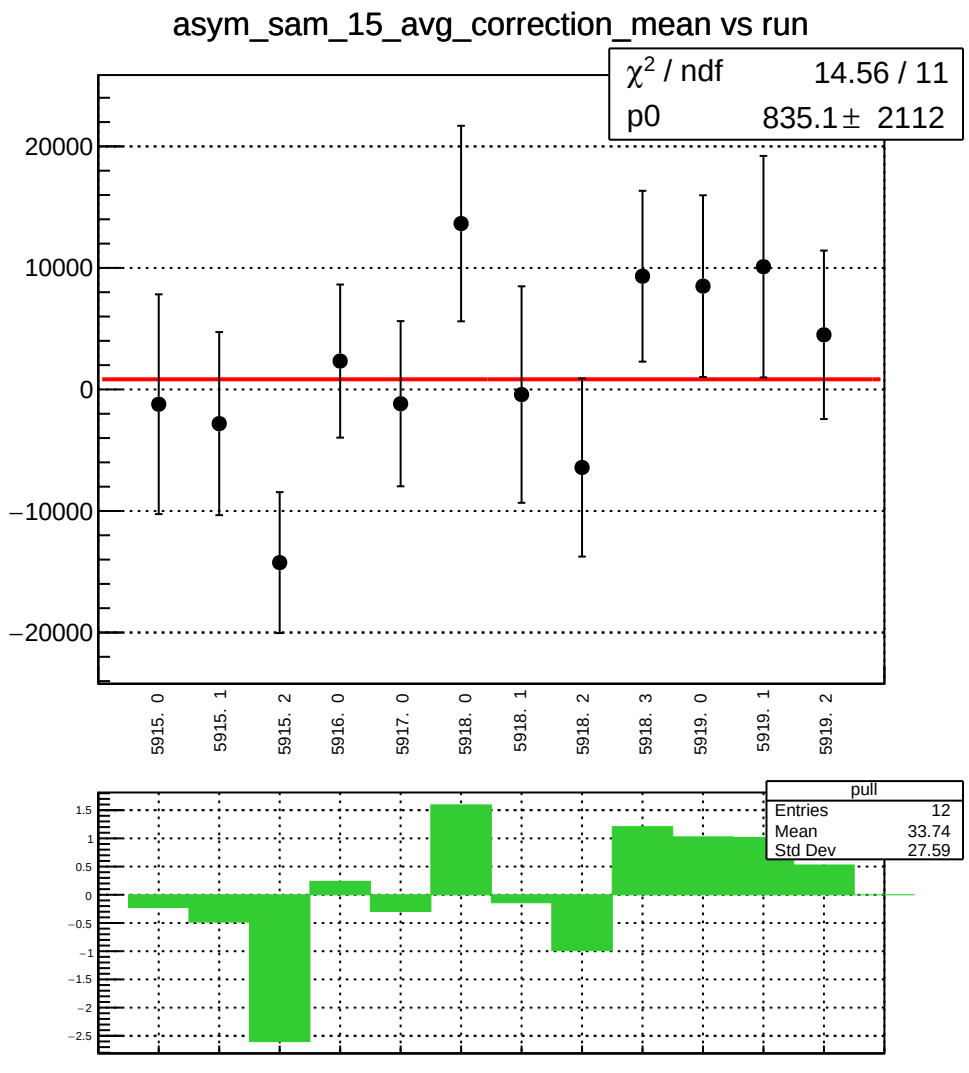

reg_asym_sam8_rms vs run
χ² / ndf 60.37 / 11
p0 62.21 ± 0.1188
64
63
62
61
60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

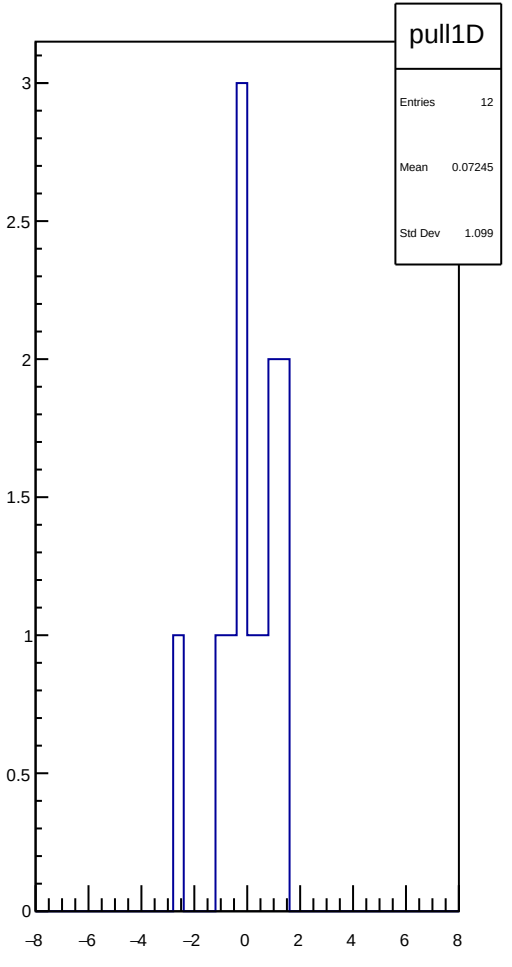

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

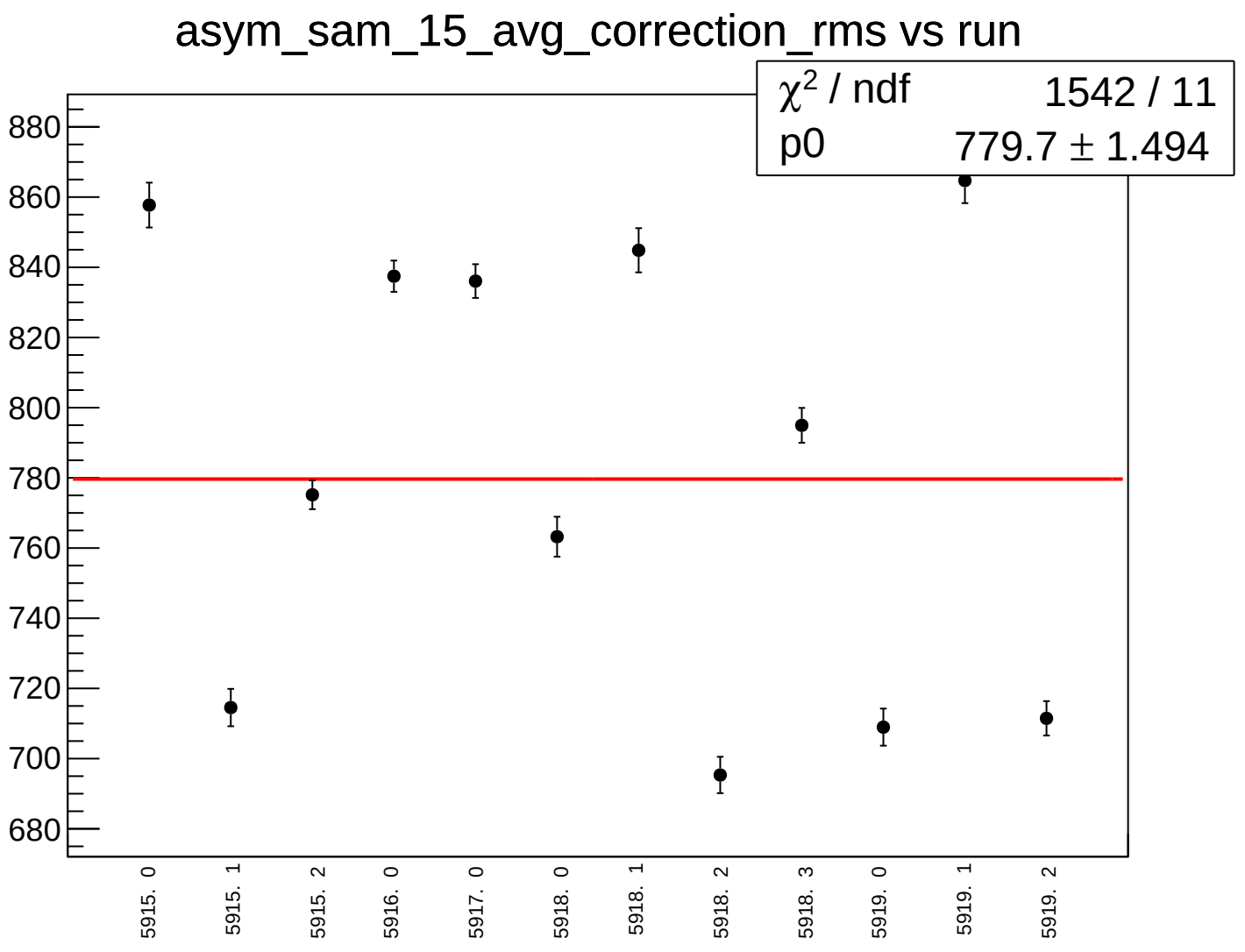

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

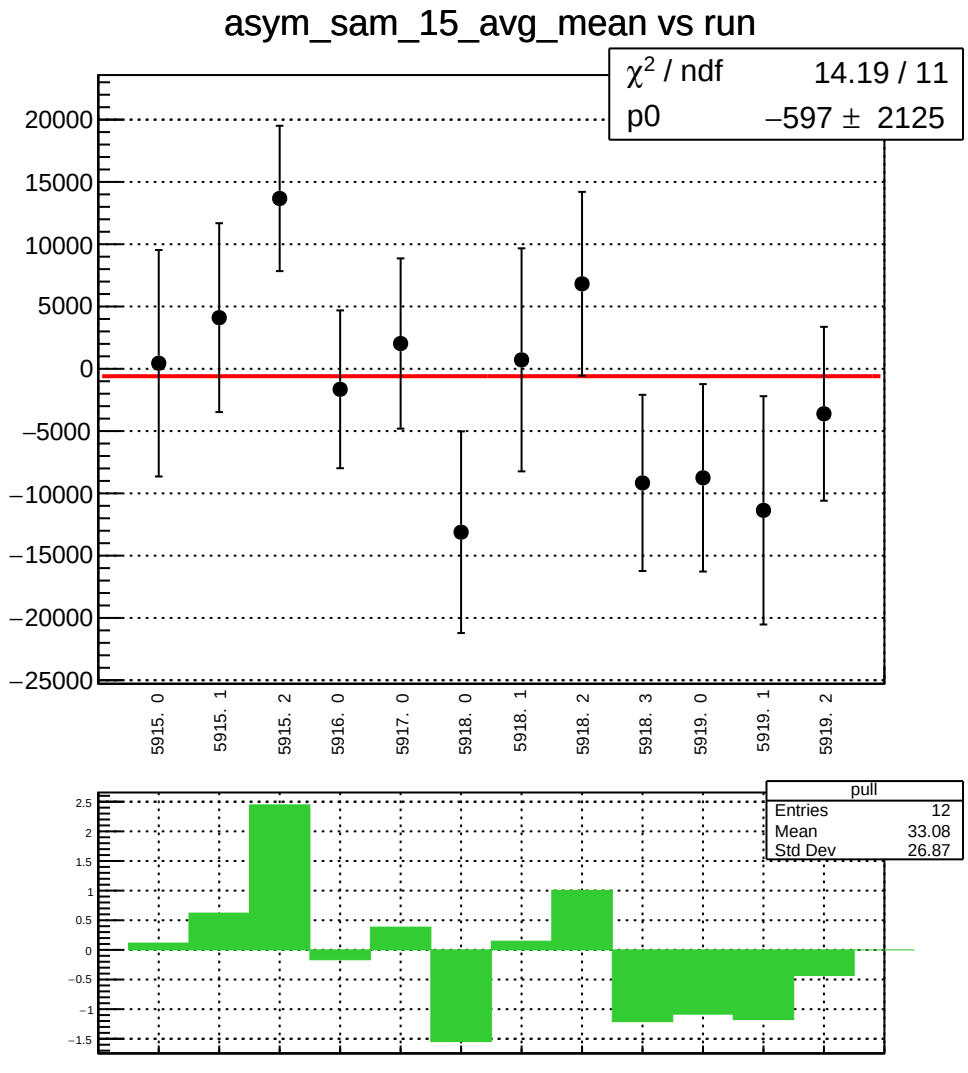

reg_asym_sam_15_avg_mean vs run
χ² / ndf 9.071 / 11
p0 224.5 ± 233
2000
1000
0
−1000
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 18.91
Std Dev 6.588
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.01979
Std Dev 0.8692
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

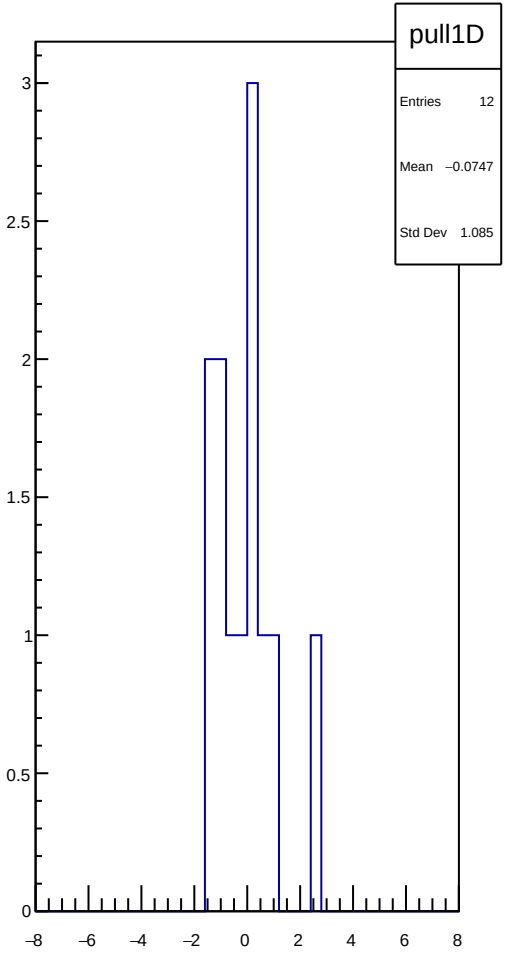

reg_asym_sam_15_avg_rms vs run
χ² / ndf 362.3 / 11
p0 86.18 ± 0.1647
90
88
86
84
82
80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

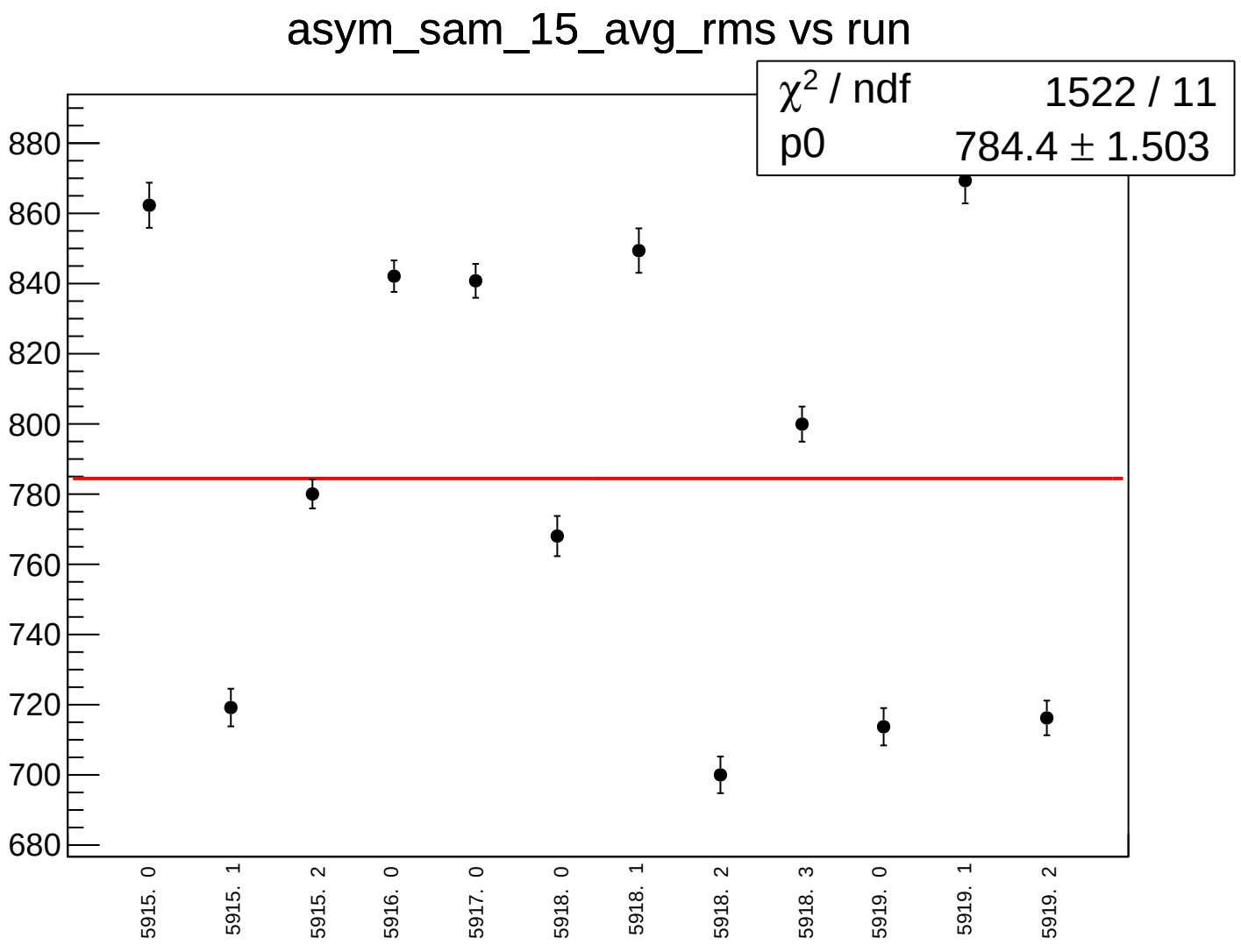

asym_sam_15_avg_correction_mean vs run
χ² / ndf 14.56 / 11
p0 835.1 ± 2112
20000
10000
0
−10000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 33.74
Std Dev 27.59
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

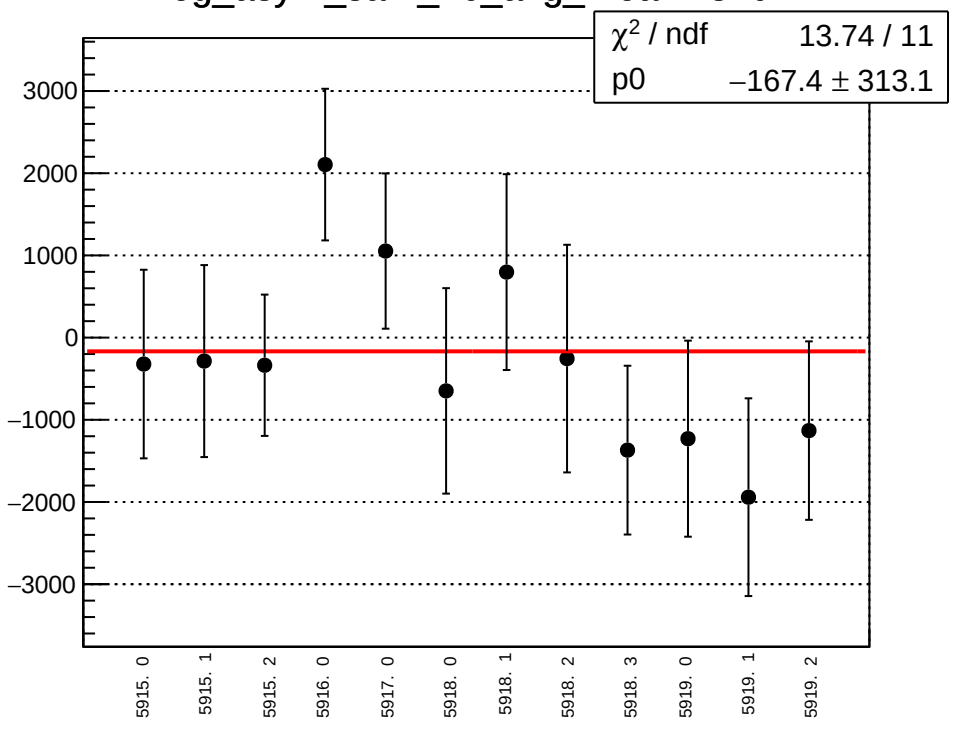

pull1D
Entries 12
Mean 0.07245
Std Dev 1.099
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

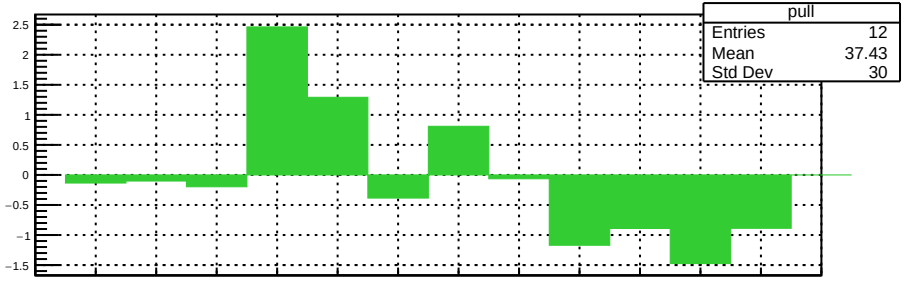

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1542 / 11
p0 779.7 ± 1.494
880
860
840
820
800
780
760
740
720
700
680
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

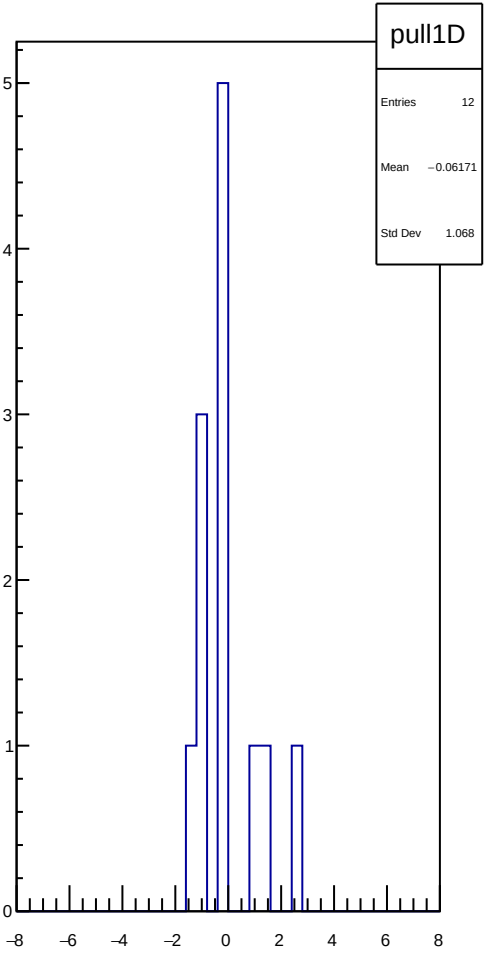

asym_sam_15_avg_mean vs run
χ² / ndf 14.19 / 11
p0 −597 ± 2125
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 33.08
Std Dev 26.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

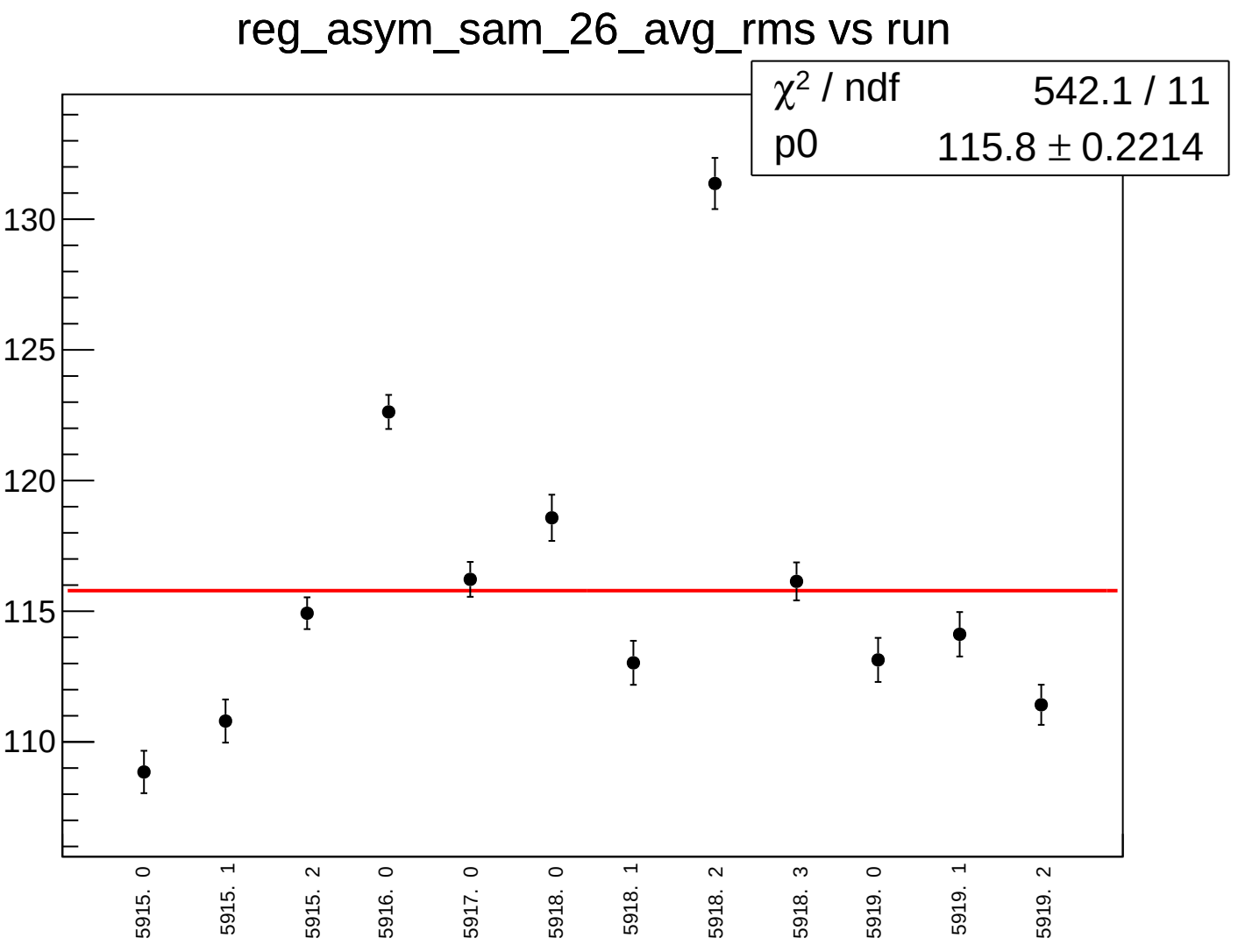

pull1D
Entries 12
Mean −0.0747
Std Dev 1.085
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

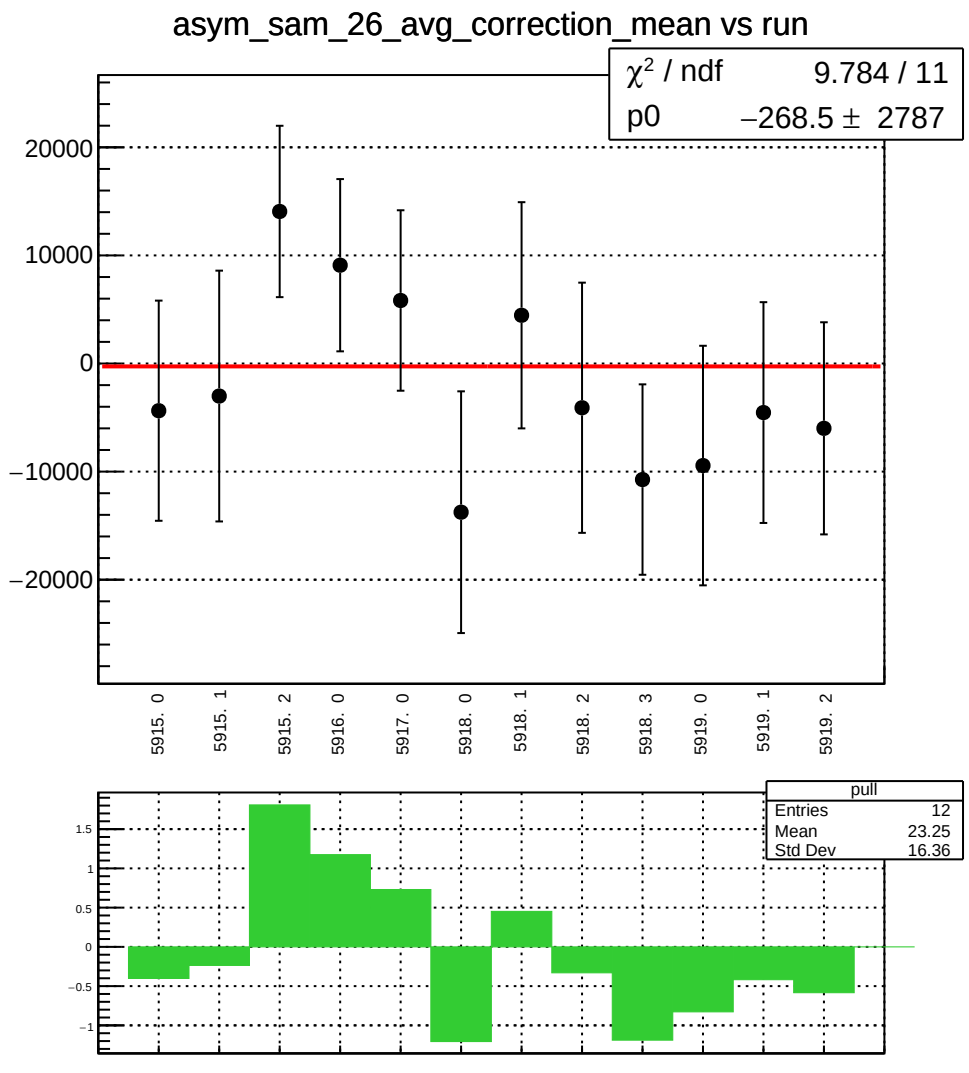

asym_sam_15_avg_rms vs run
χ² / ndf 1522 / 11
p0 784.4 ± 1.503
880
860
840
820
800
780
760
740
720
700
680
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

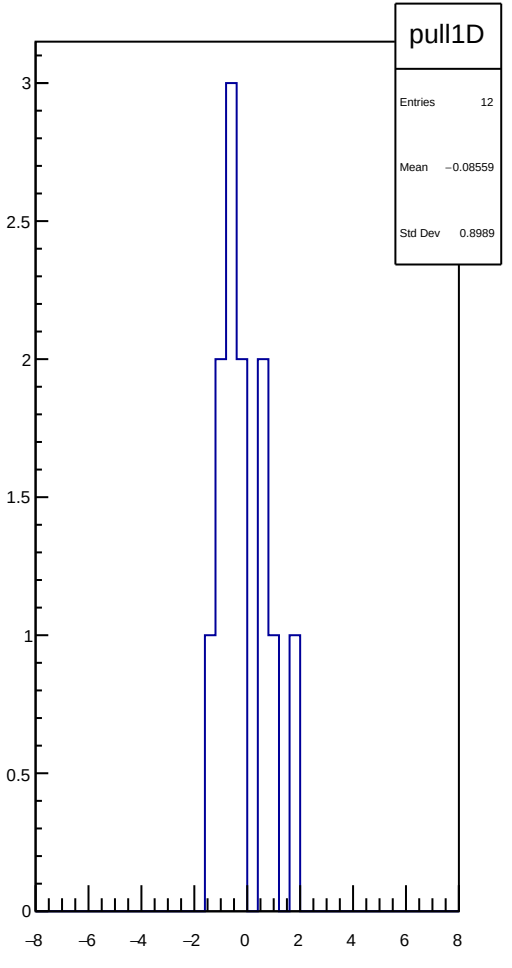

reg_asym_sam_26_avg_mean vs run
χ² / ndf 13.74 / 11
p0 −167.4 ± 313.1
3000
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

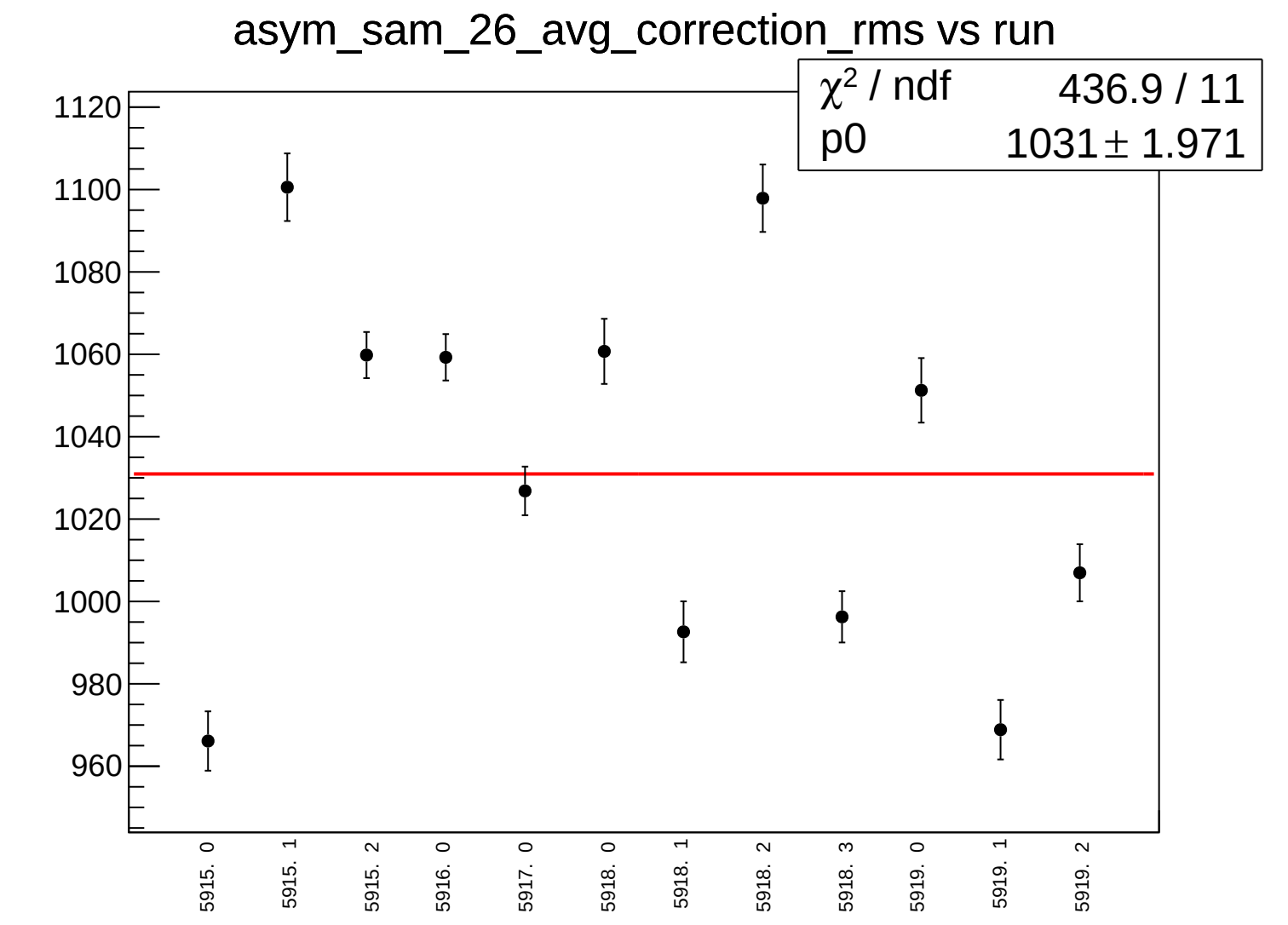

pull
Entries 12
Mean 37.43
Std Dev 30
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

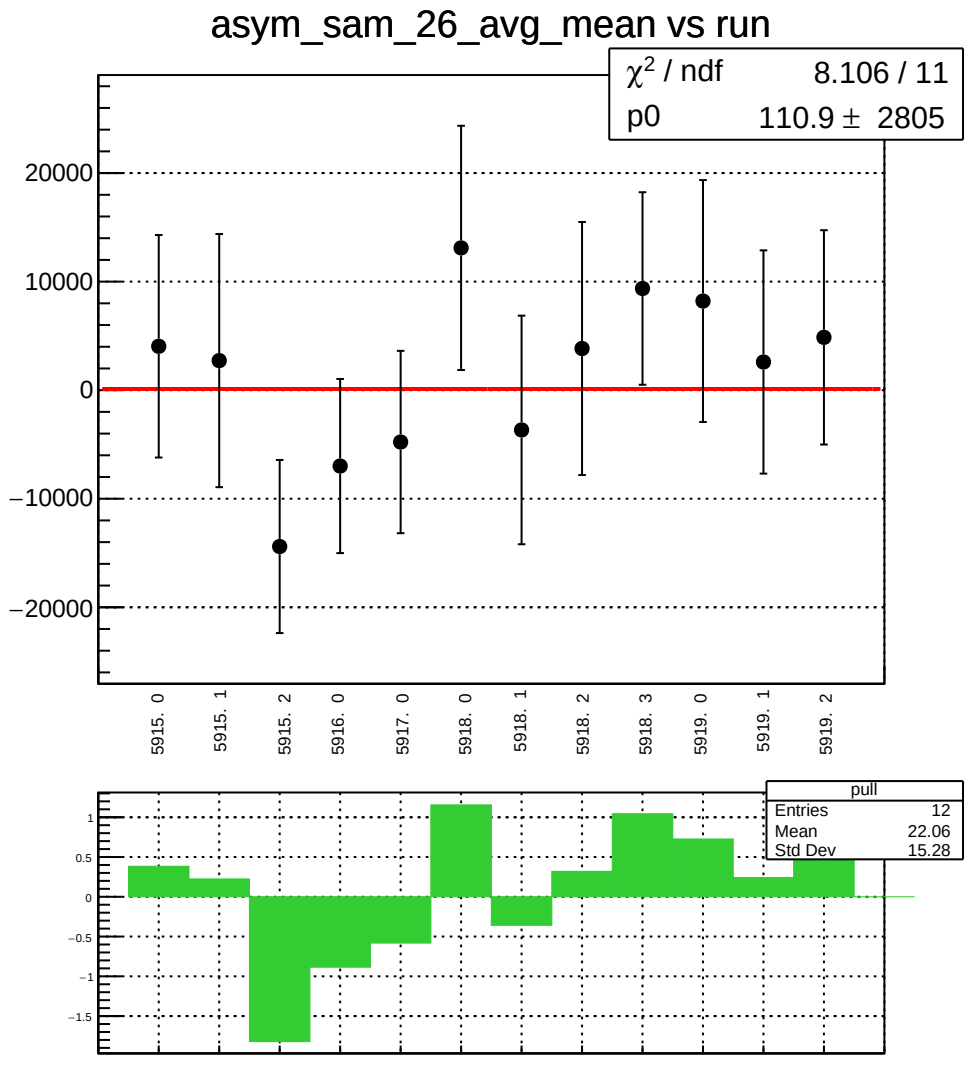

pull1D
Entries 12
Mean −0.06171
Std Dev 1.068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

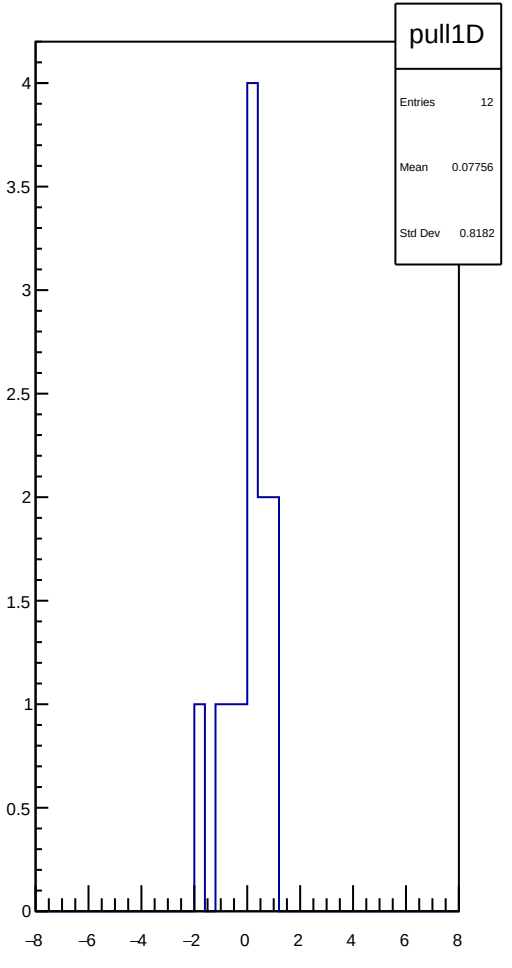

reg_asym_sam_26_avg_rms vs run
χ² / ndf 542.1 / 11
p0 115.8 ± 0.2214
130
125
120
115
110
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

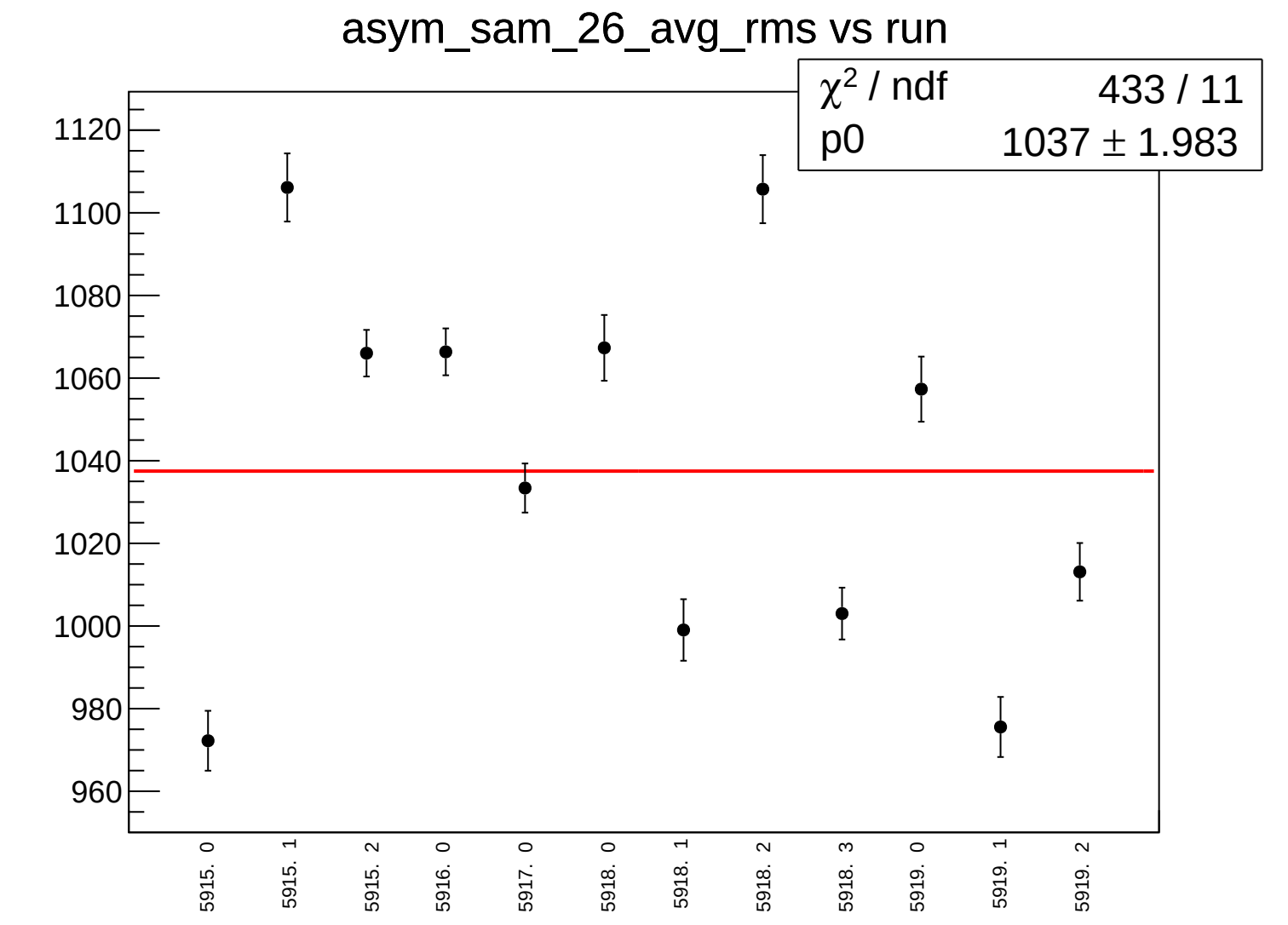

asym_sam_26_avg_correction_mean vs run
χ² / ndf 9.784 / 11
p0 −268.5 ± 2787
20000
10000
0
−10000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 23.25
Std Dev 16.36
1.5
1
0.5
0
−0.5
−1

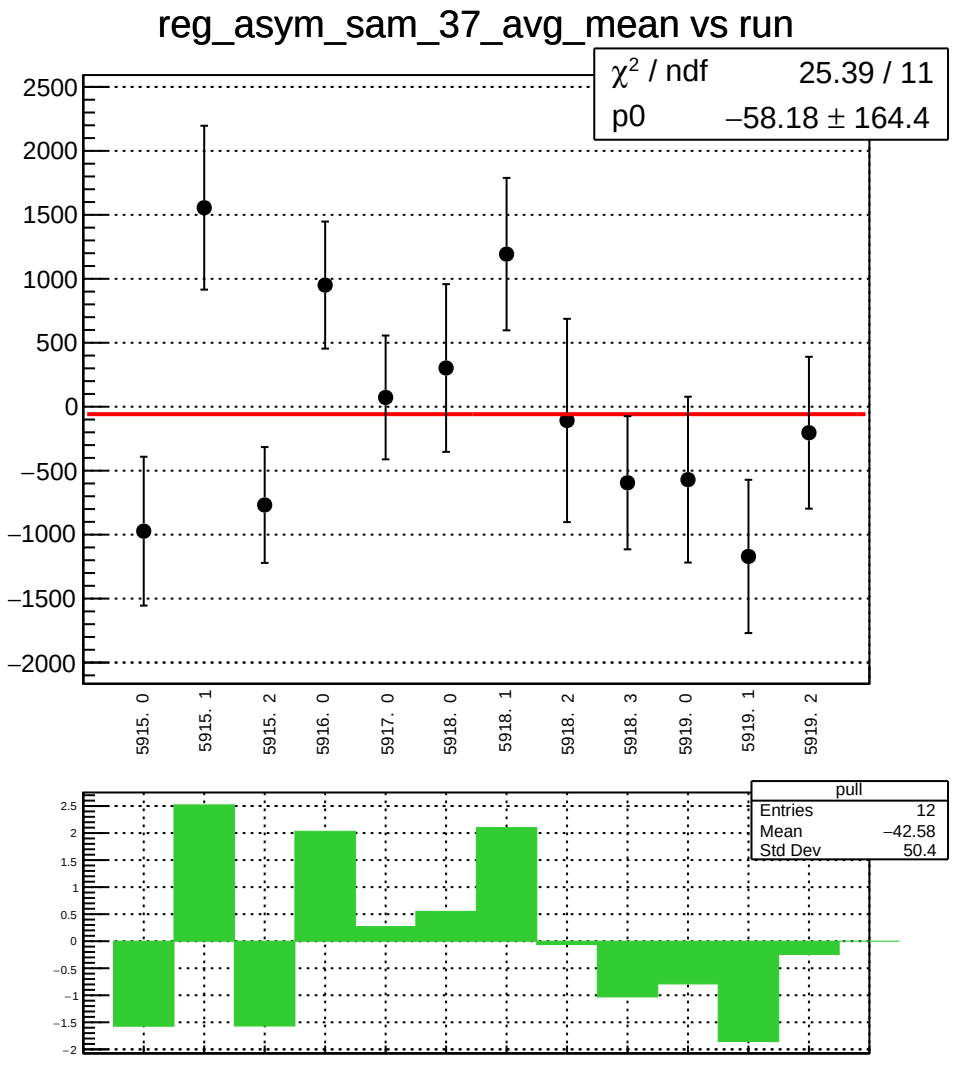

pull1D
Entries 12
Mean −0.08559
Std Dev 0.8989
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

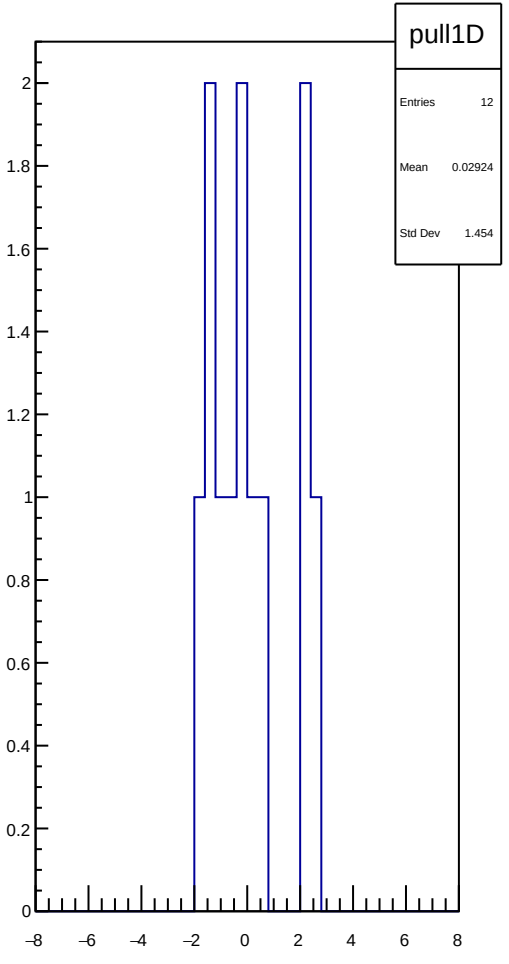

asym_sam_26_avg_correction_rms vs run
χ² / ndf 436.9 / 11
p0 1031 ± 1.971
1120
1100
1080
1060
1040
1020
1000
980
960
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

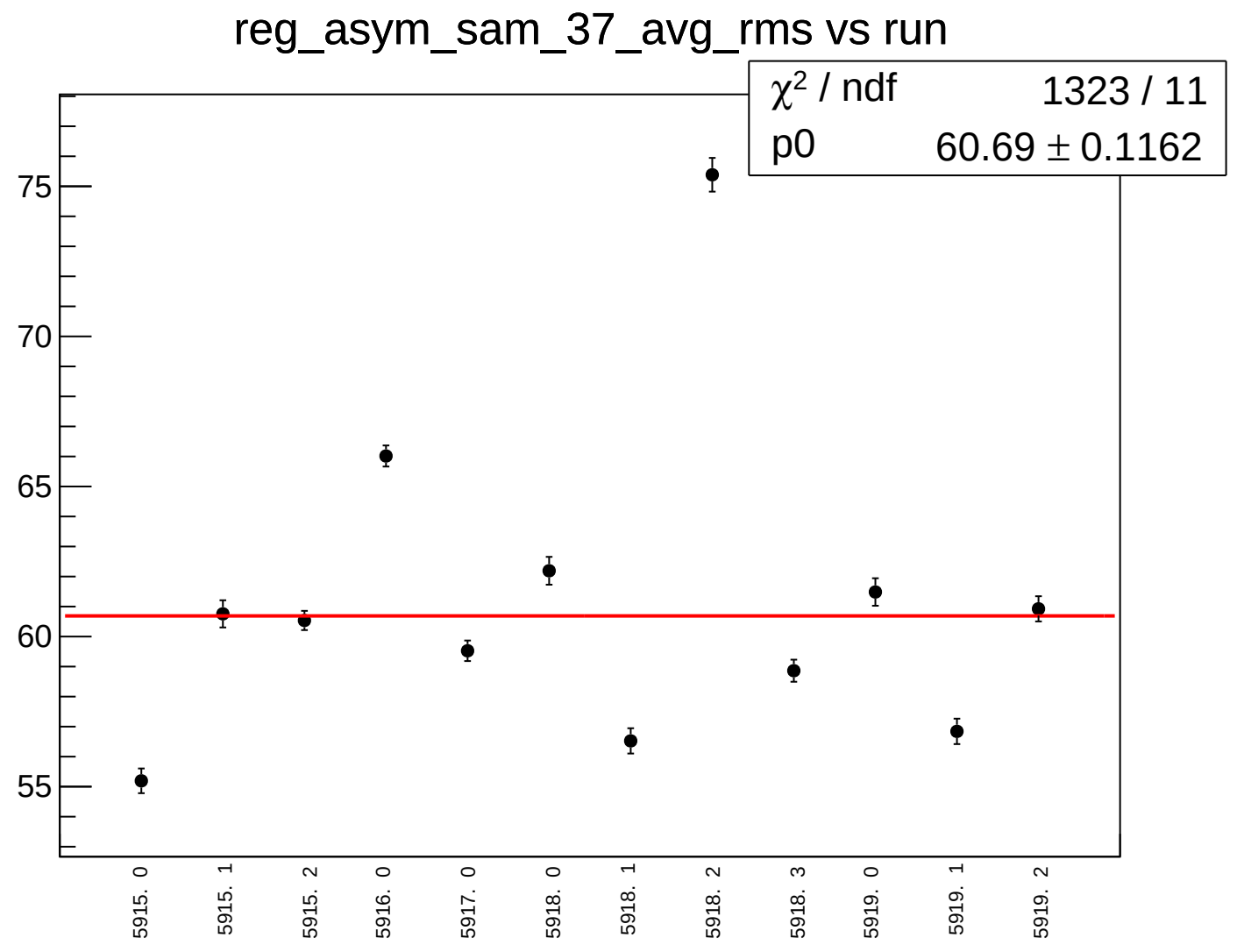

asym_sam_26_avg_mean vs run
χ² / ndf 8.106 / 11
p0 110.9 ± 2805
20000
10000
0
−10000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.06
Std Dev 15.28
1
0.5
0
−0.5
−1
−1.5

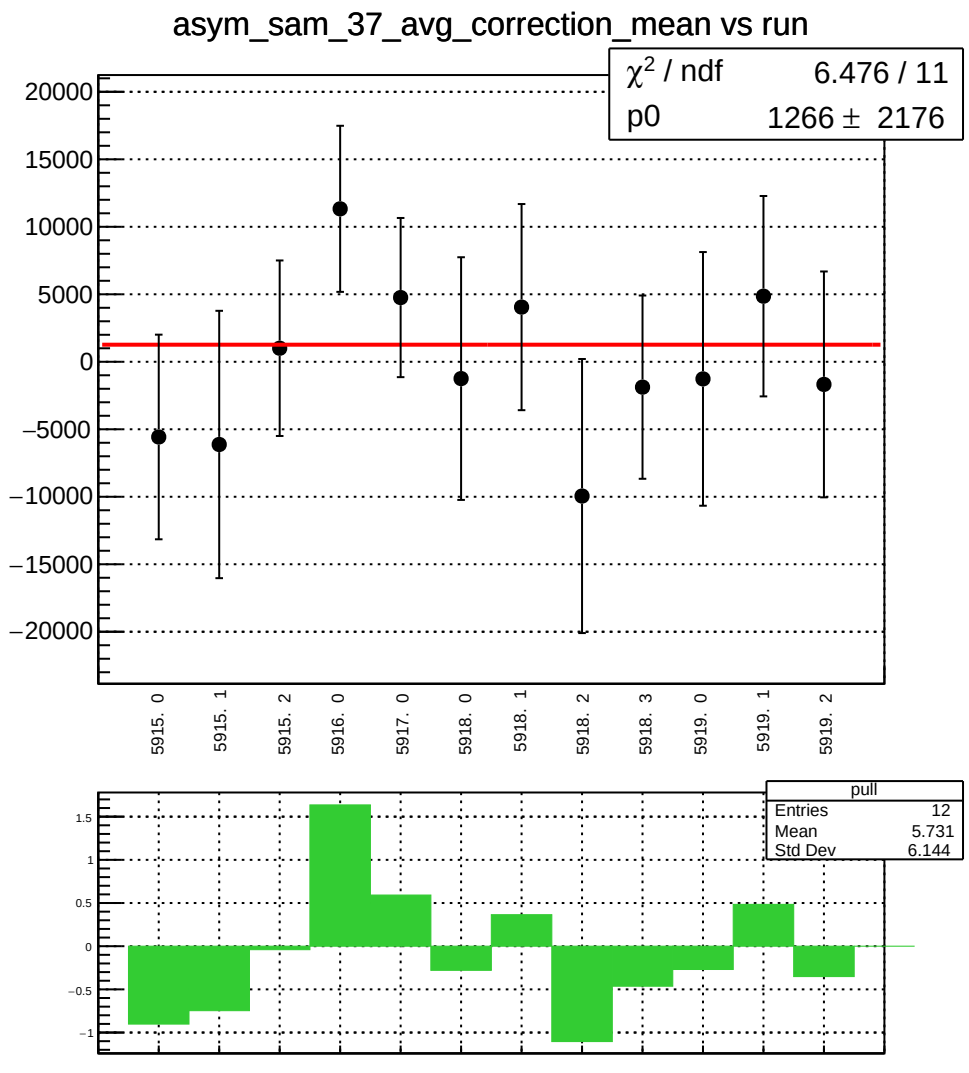

pull1D
Entries 12
Mean 0.07756
Std Dev 0.8182
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

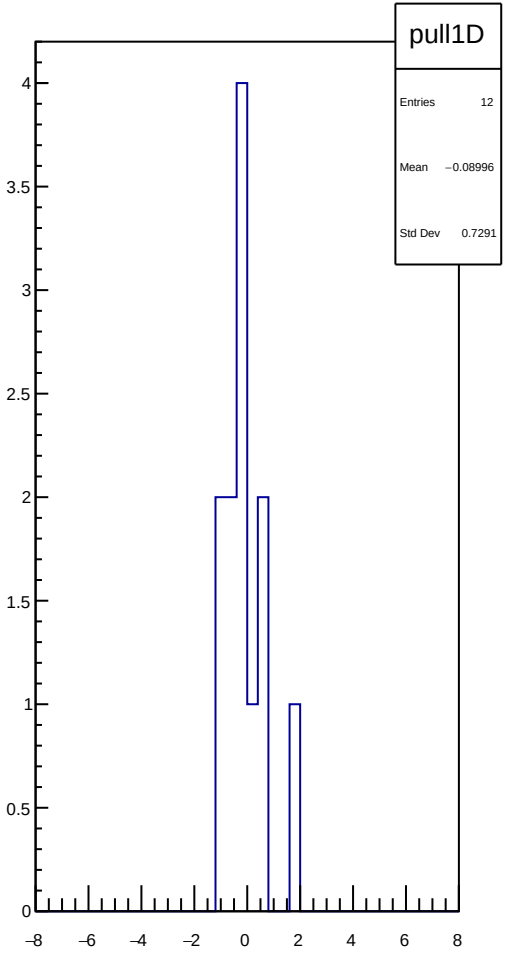

asym_sam_26_avg_rms vs run
χ² / ndf 433 / 11
p0 1037 ± 1.983
1120
1100
1080
1060
1040
1020
1000
980
960
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

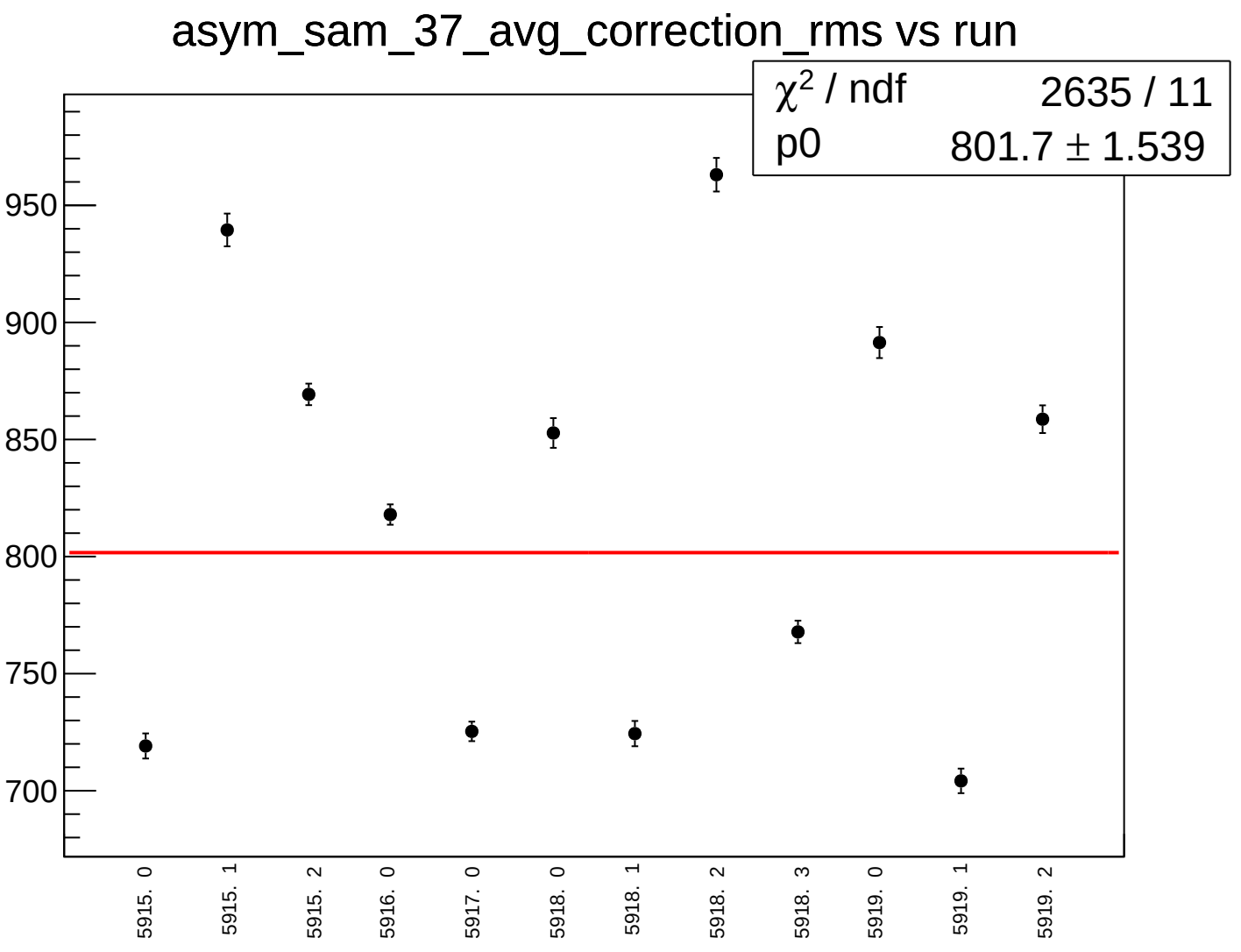

reg_asym_sam_37_avg_mean vs run
χ² / ndf 25.39 / 11
p0 −58.18 ± 164.4
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −42.58
Std Dev 50.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

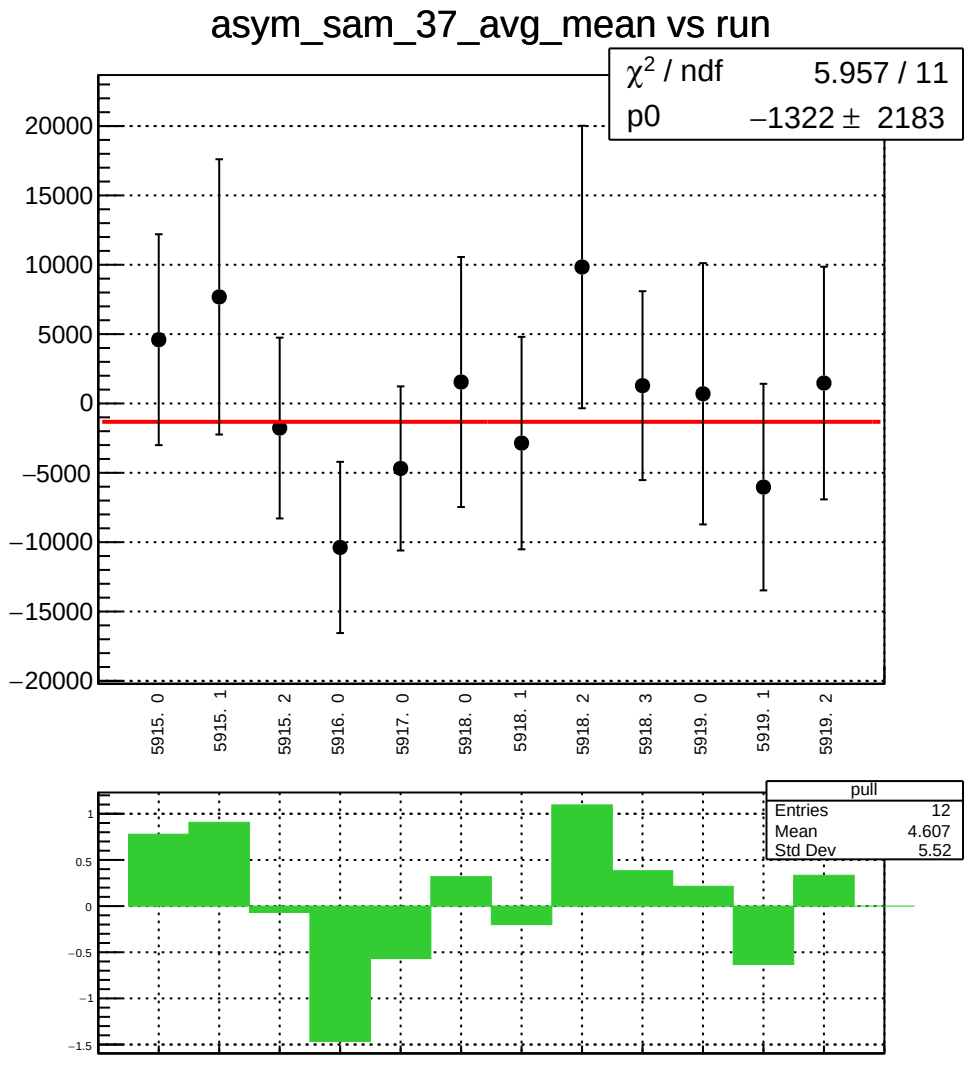

pull1D
Entries 12
Mean 0.02924
Std Dev 1.454
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

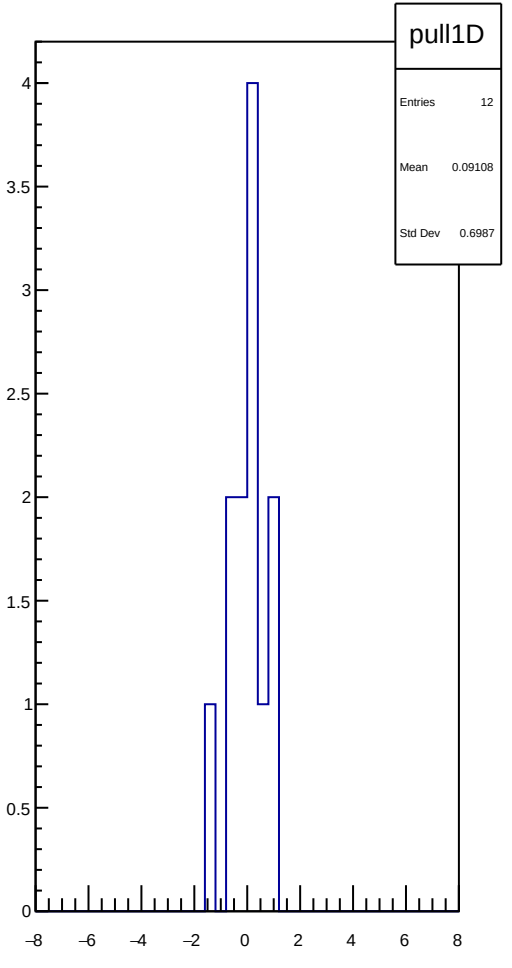

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1323 / 11
p0 60.69 ± 0.1162
75
70
65
60
55
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

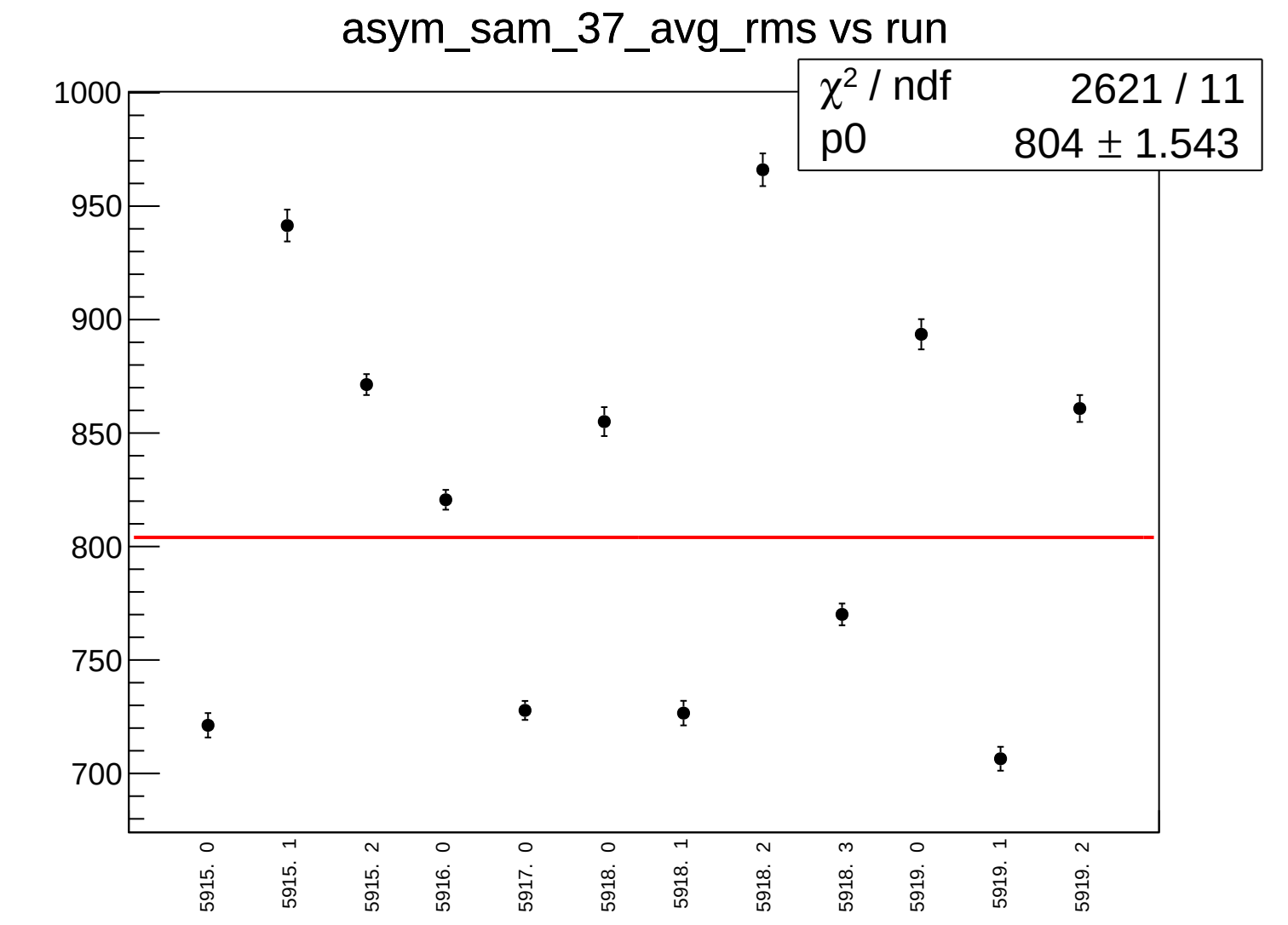

asym_sam_37_avg_correction_mean vs run
χ² / ndf 6.476 / 11
p0 1266 ± 2176
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 5.731
Std Dev 6.144
1.5
1
0.5
0
−0.5
−1

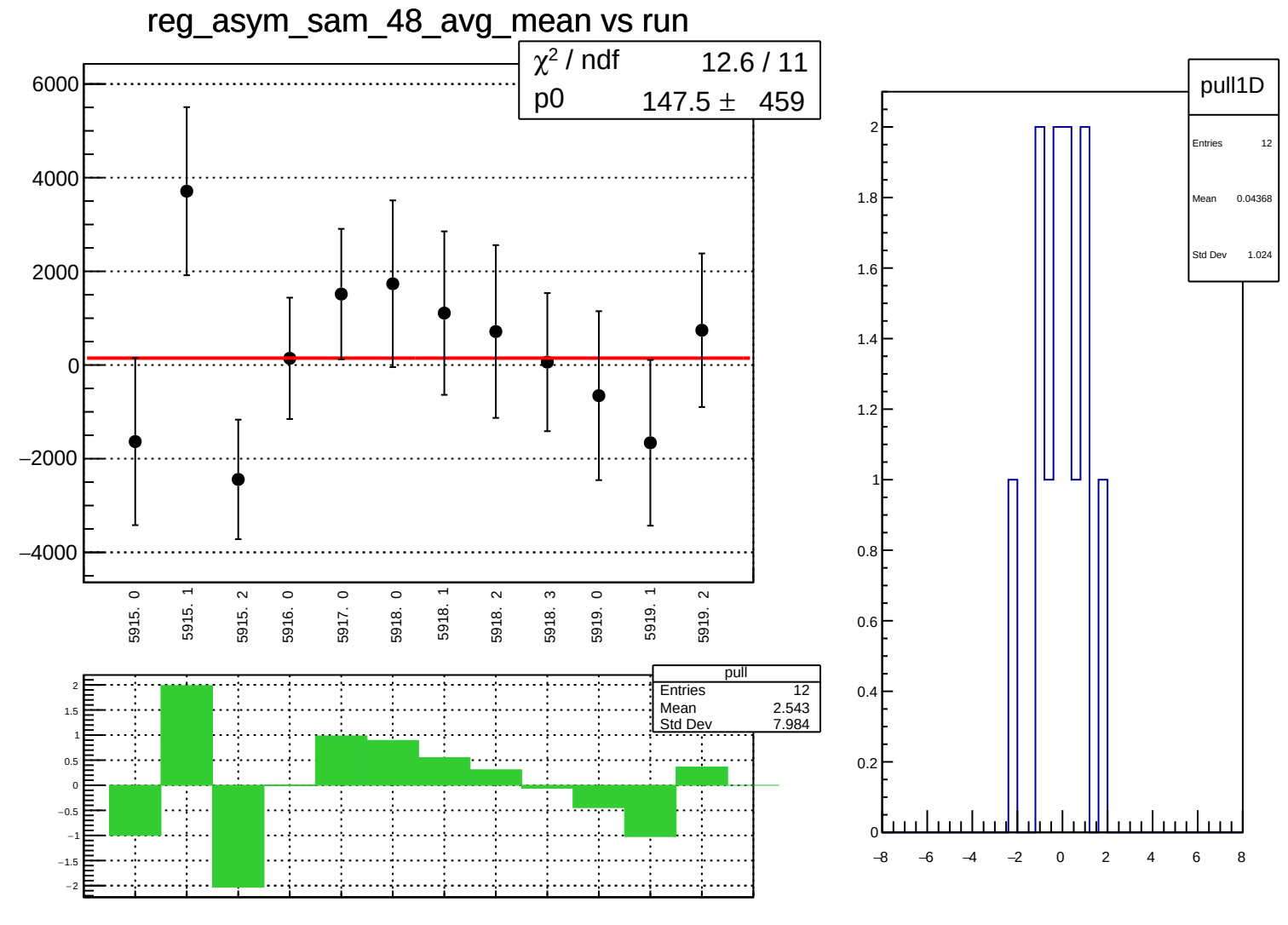

pull1D
Entries 12
Mean −0.08996
Std Dev 0.7291
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

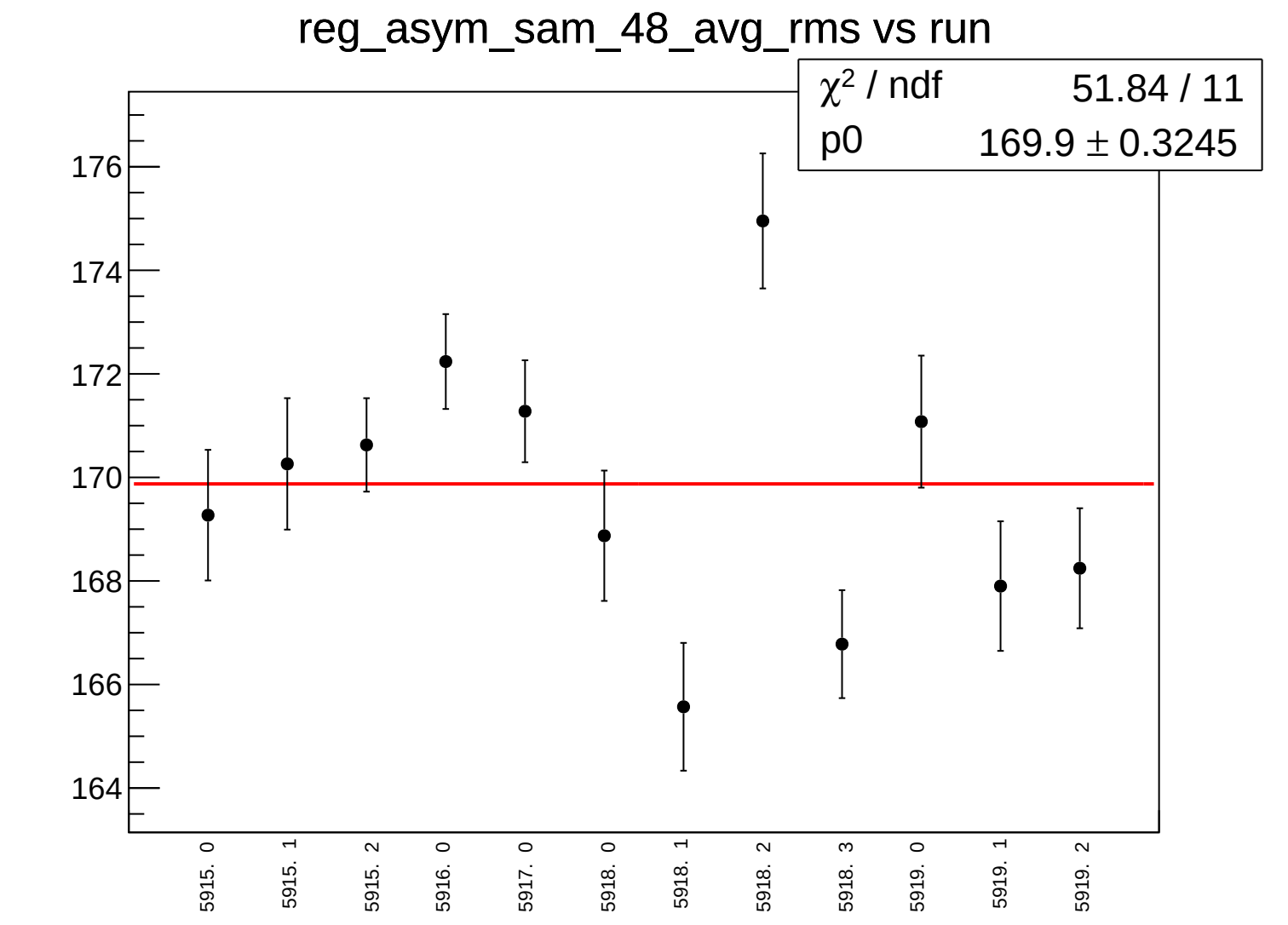

asym_sam_37_avg_correction_rms vs run
χ² / ndf 2635 / 11
p0 801.7 ± 1.539
950
900
850
800
750
700
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

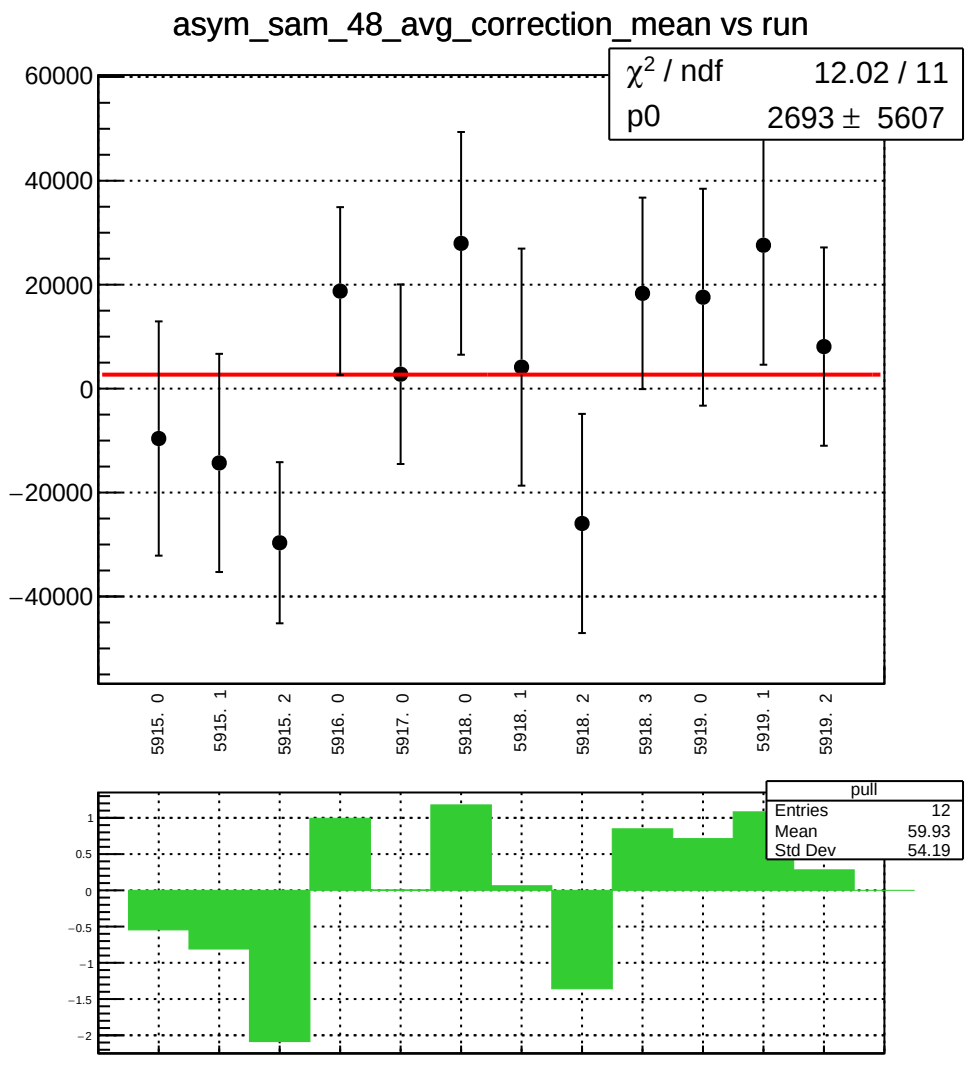

asym_sam_37_avg_mean vs run
χ² / ndf 5.957 / 11
p0 −1322 ± 2183
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.607
Std Dev 5.52
1
0.5
0
−0.5
−1
−1.5

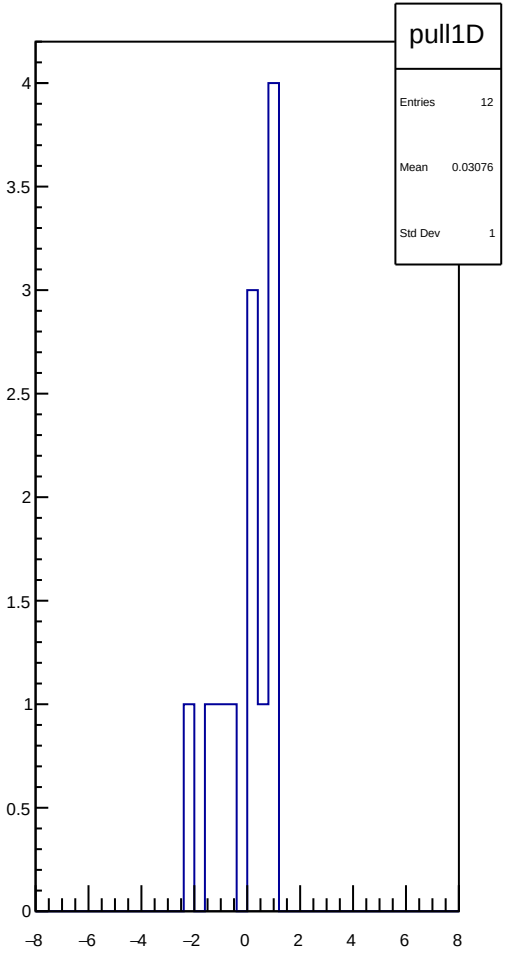

pull1D
Entries 12
Mean 0.09108
Std Dev 0.6987
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

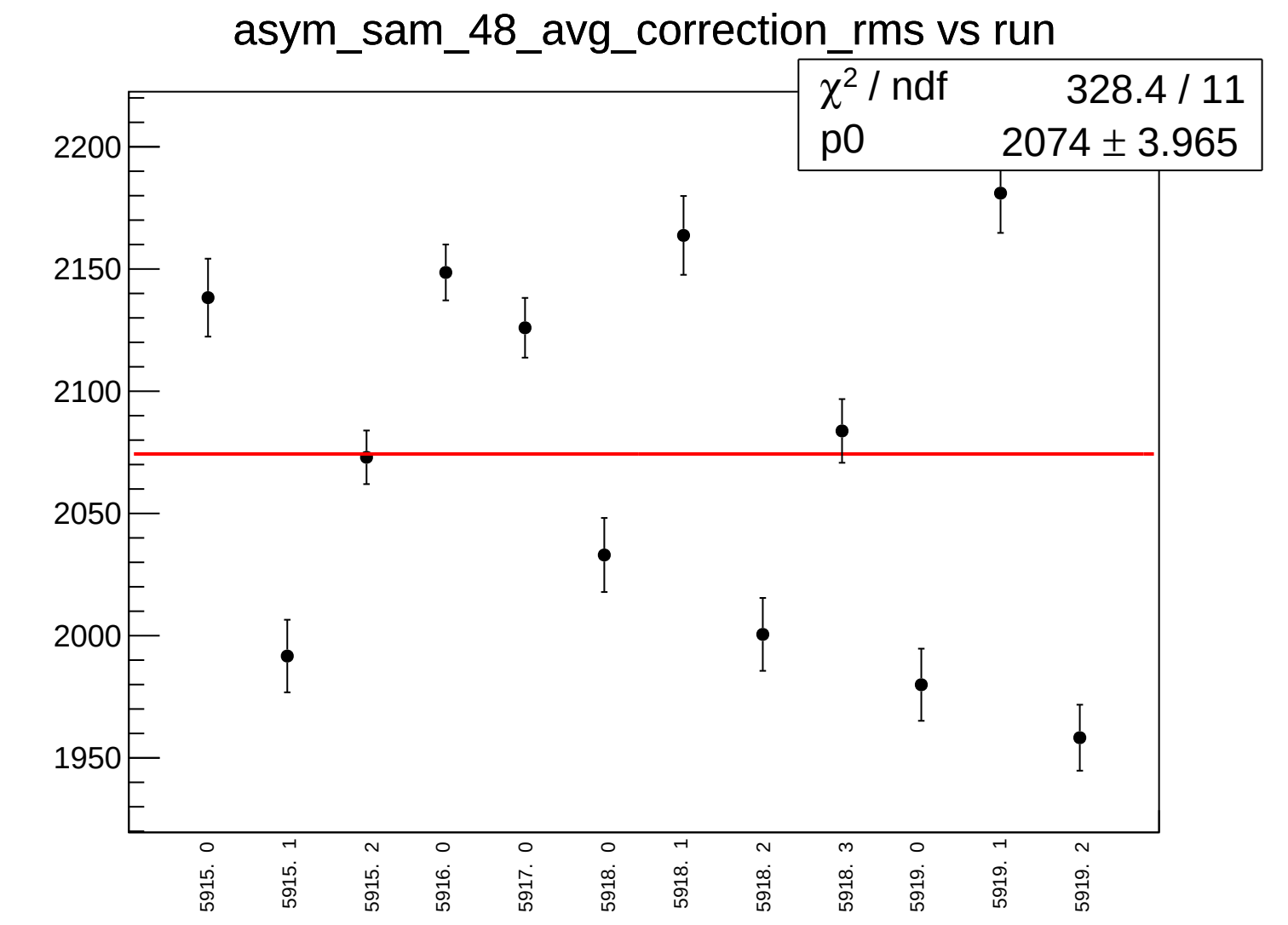

asym_sam_37_avg_rms vs run
χ² / ndf 2621 / 11
p0 804 ± 1.543
1000
950
900
850
800
750
700
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

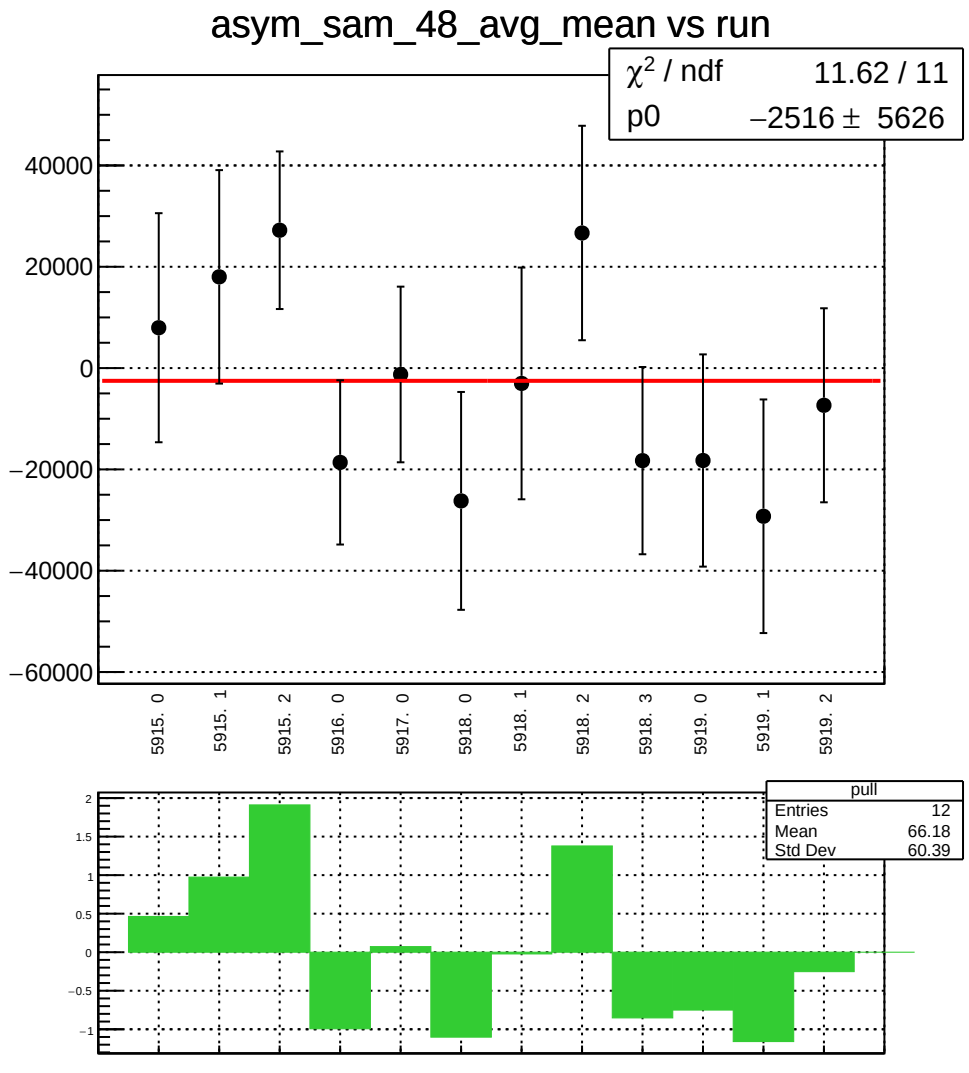

reg_asym_sam_48_avg_mean vs run
χ² / ndf 12.6 / 11
p0 147.5 ± 459
6000
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 2.543
Std Dev 7.984
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.04368
Std Dev 1.024
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

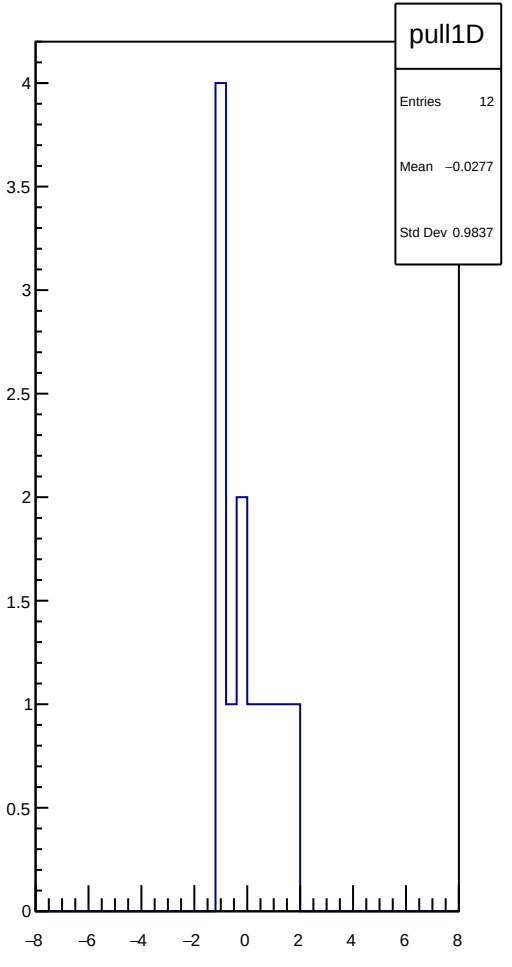

reg_asym_sam_48_avg_rms vs run
χ² / ndf 51.84 / 11
p0 169.9 ± 0.3245
176
174
172
170
168
166
164
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

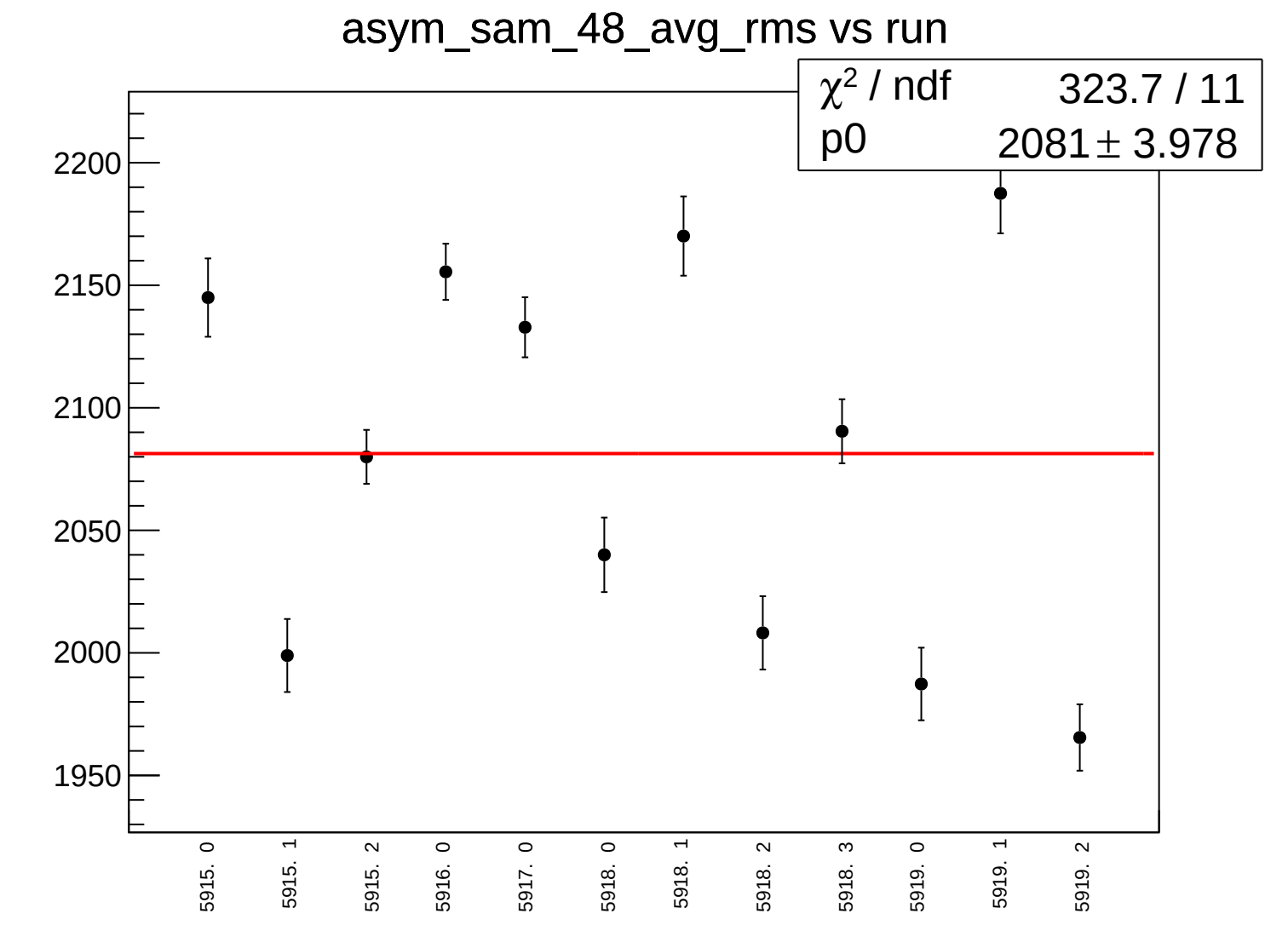

asym_sam_48_avg_correction_mean vs run
χ² / ndf 12.02 / 11
p0 2693 ± 5607
60000
40000
20000
0
−20000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 59.93
Std Dev 54.19
1
0.5
0
−0.5
−1
−1.5
−2

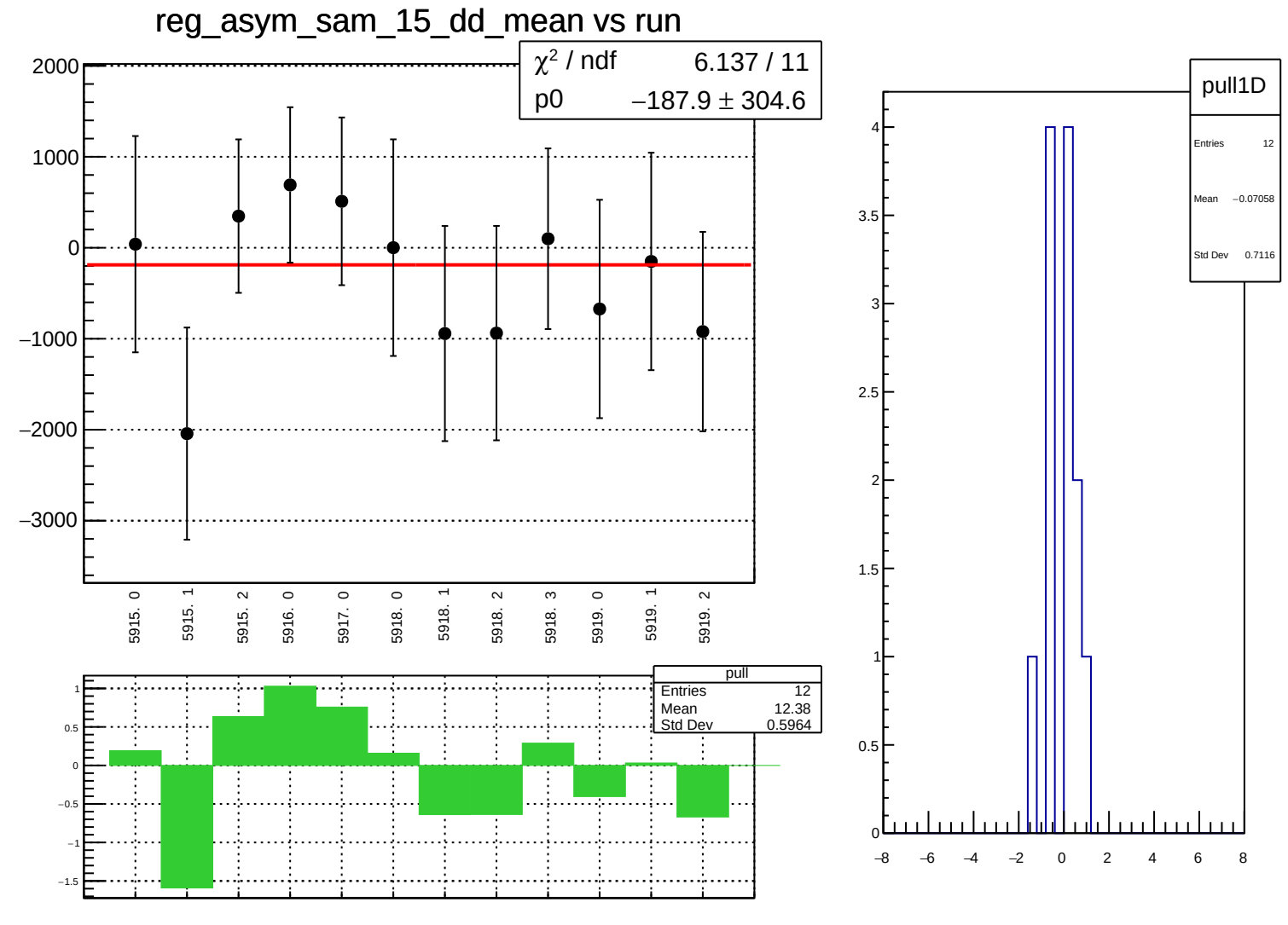

pull1D
Entries 12
Mean 0.03076
Std Dev 1
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

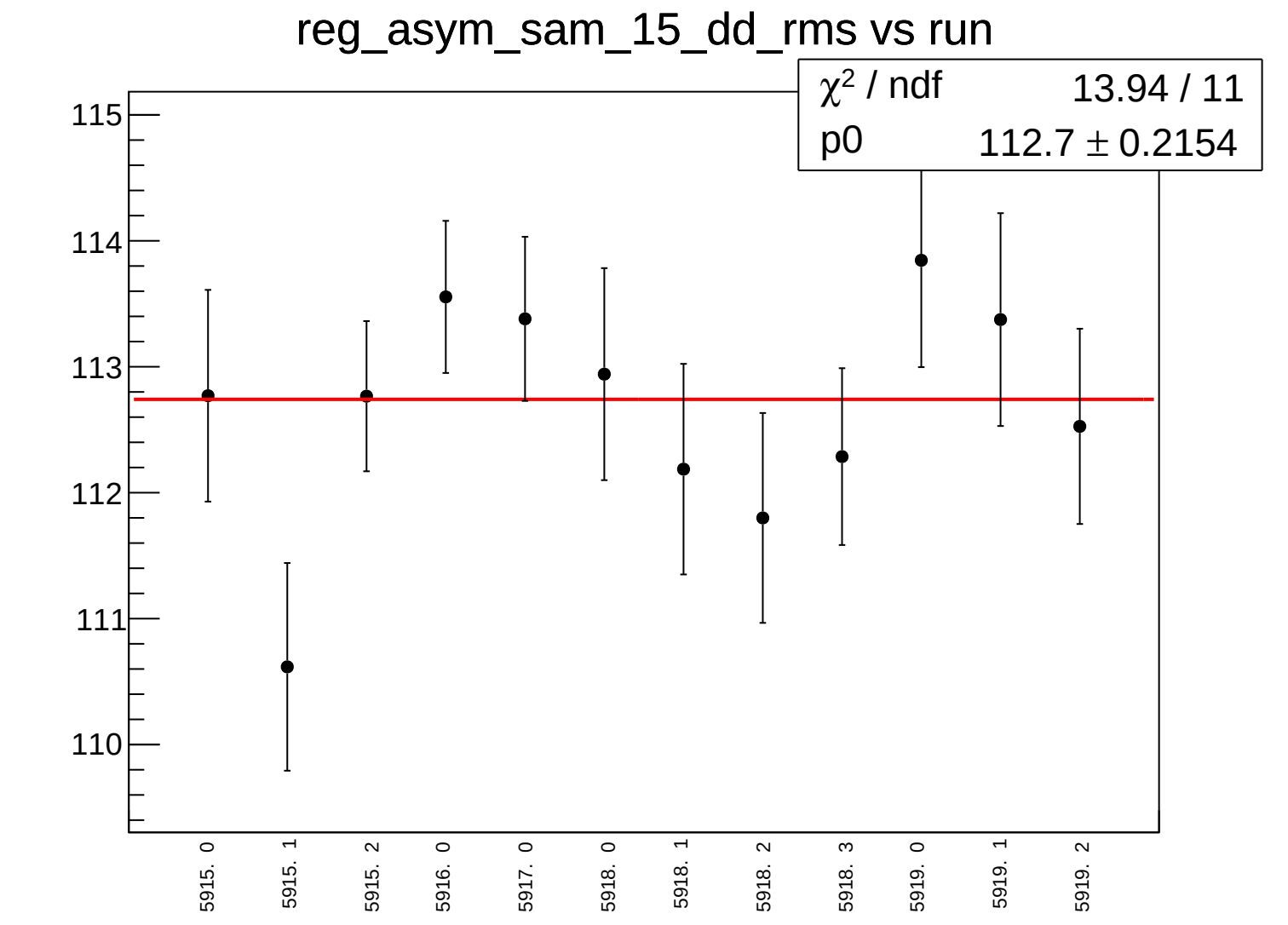

asym_sam_48_avg_correction_rms vs run
χ² / ndf 328.4 / 11
p0 2074 ± 3.965
2200
2150
2100
2050
2000
1950
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

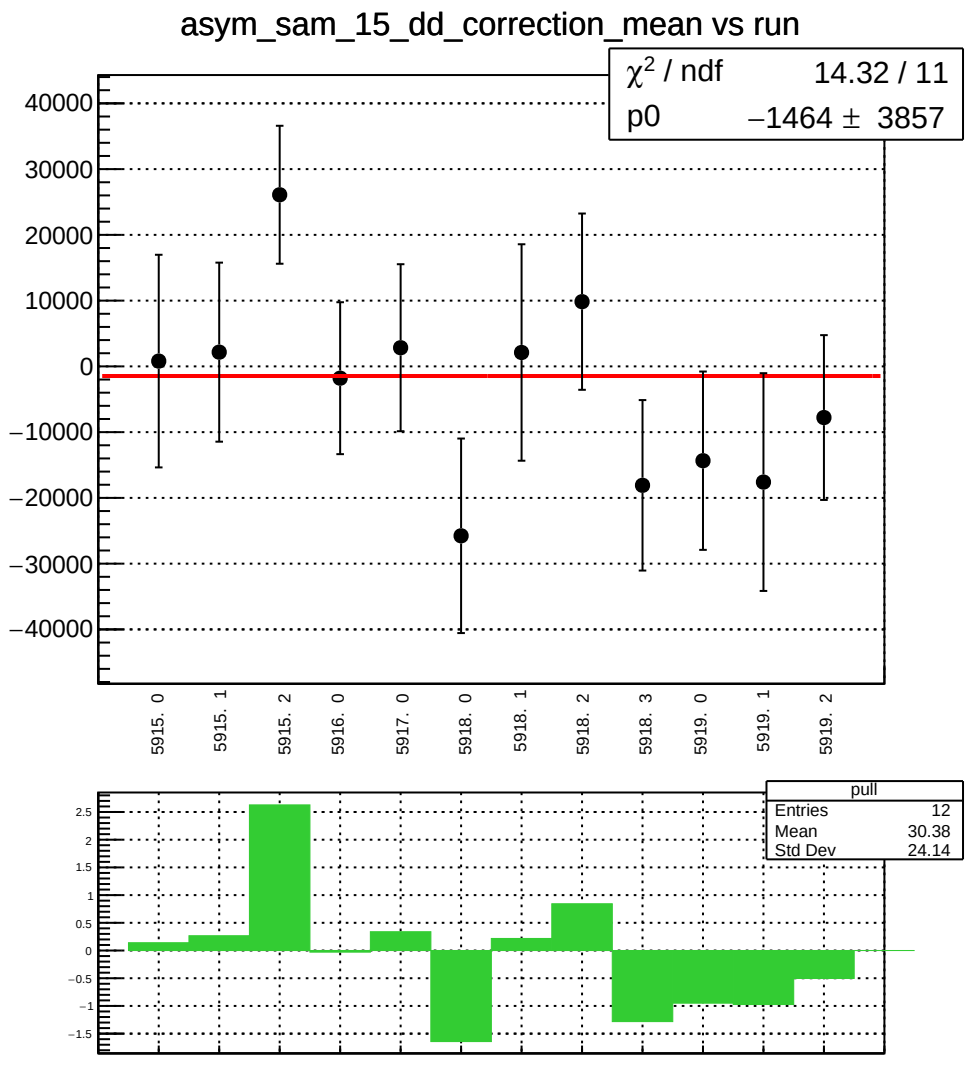

asym_sam_48_avg_mean vs run
χ² / ndf 11.62 / 11
p0 −2516 ± 5626
40000
20000
0
−20000
−40000
−60000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 66.18
Std Dev 60.39
2
1.5
1
0.5
0
−0.5
−1

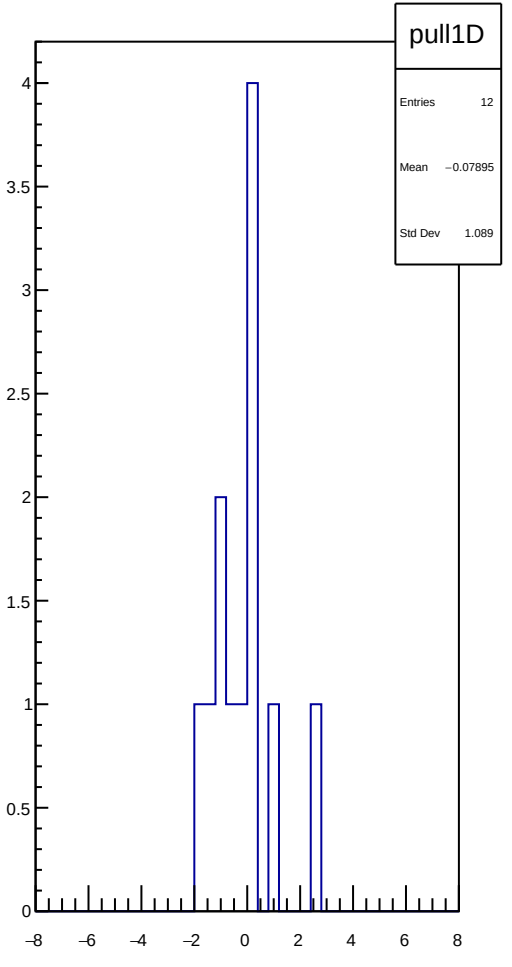

pull1D
Entries 12
Mean −0.0277
Std Dev 0.9837
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

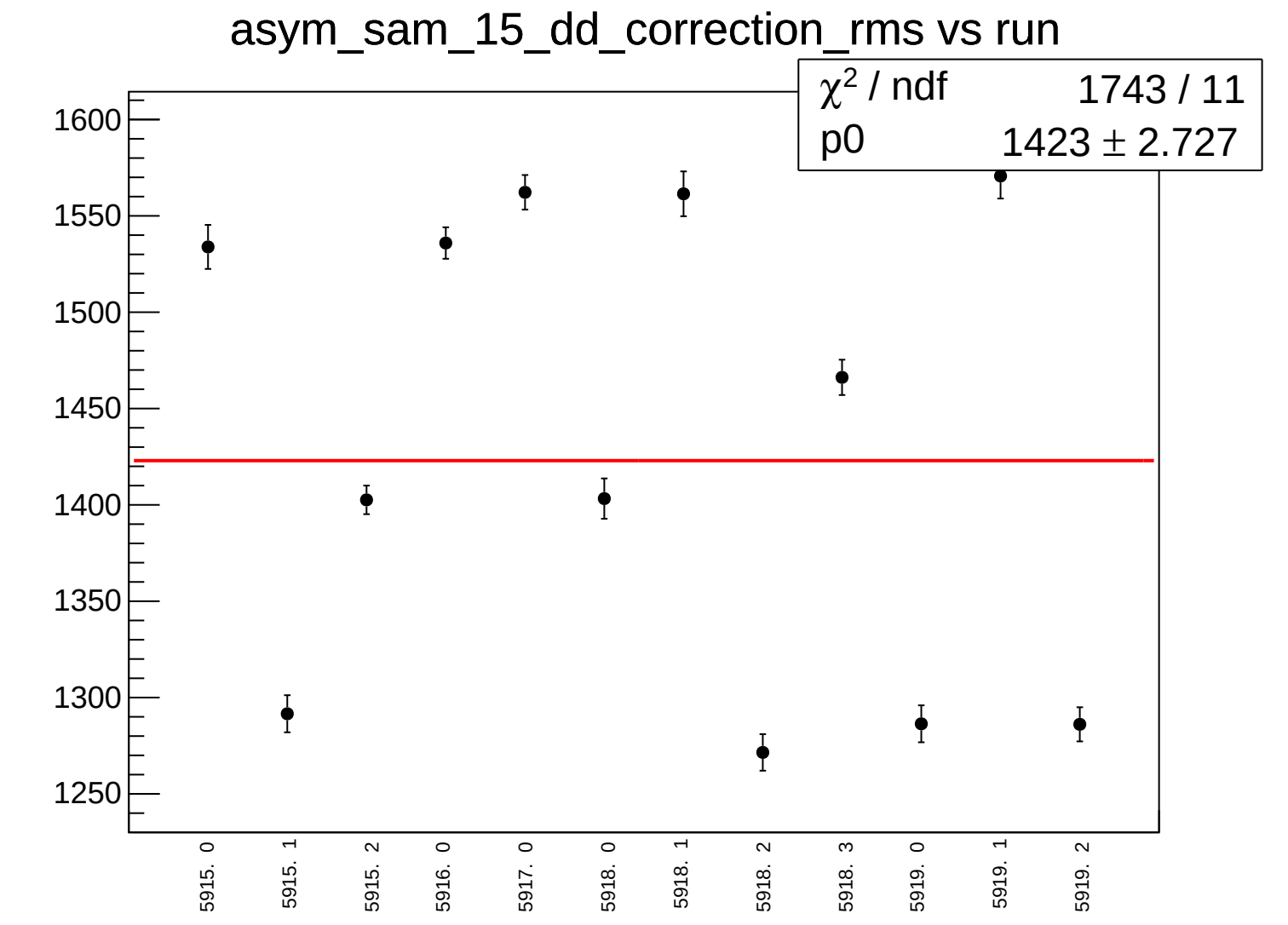

asym_sam_48_avg_rms vs run
χ² / ndf 323.7 / 11
p0 2081 ± 3.978
2200
2150
2100
2050
2000
1950
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

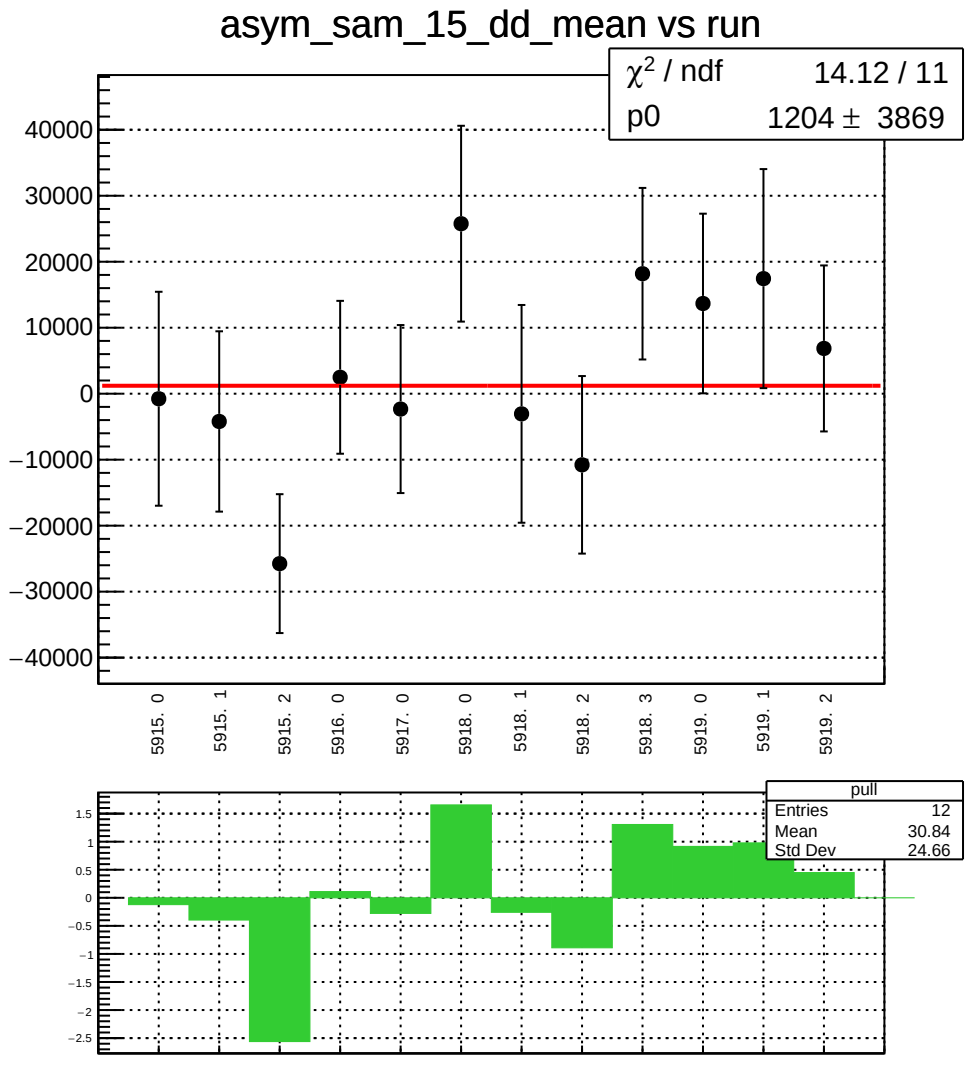

reg_asym_sam_15_dd_mean vs run
χ² / ndf 6.137 / 11
p0 −187.9 ± 304.6
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.38
Std Dev 0.5964
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.07058
Std Dev 0.7116
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

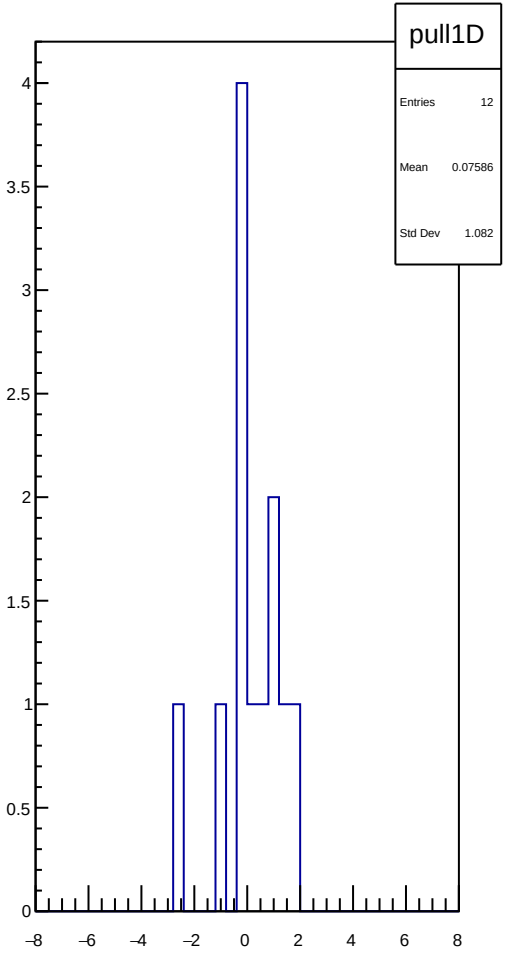

reg_asym_sam_15_dd_rms vs run
χ² / ndf 13.94 / 11
p0 112.7 ± 0.2154
115
114
113
112
111
110
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

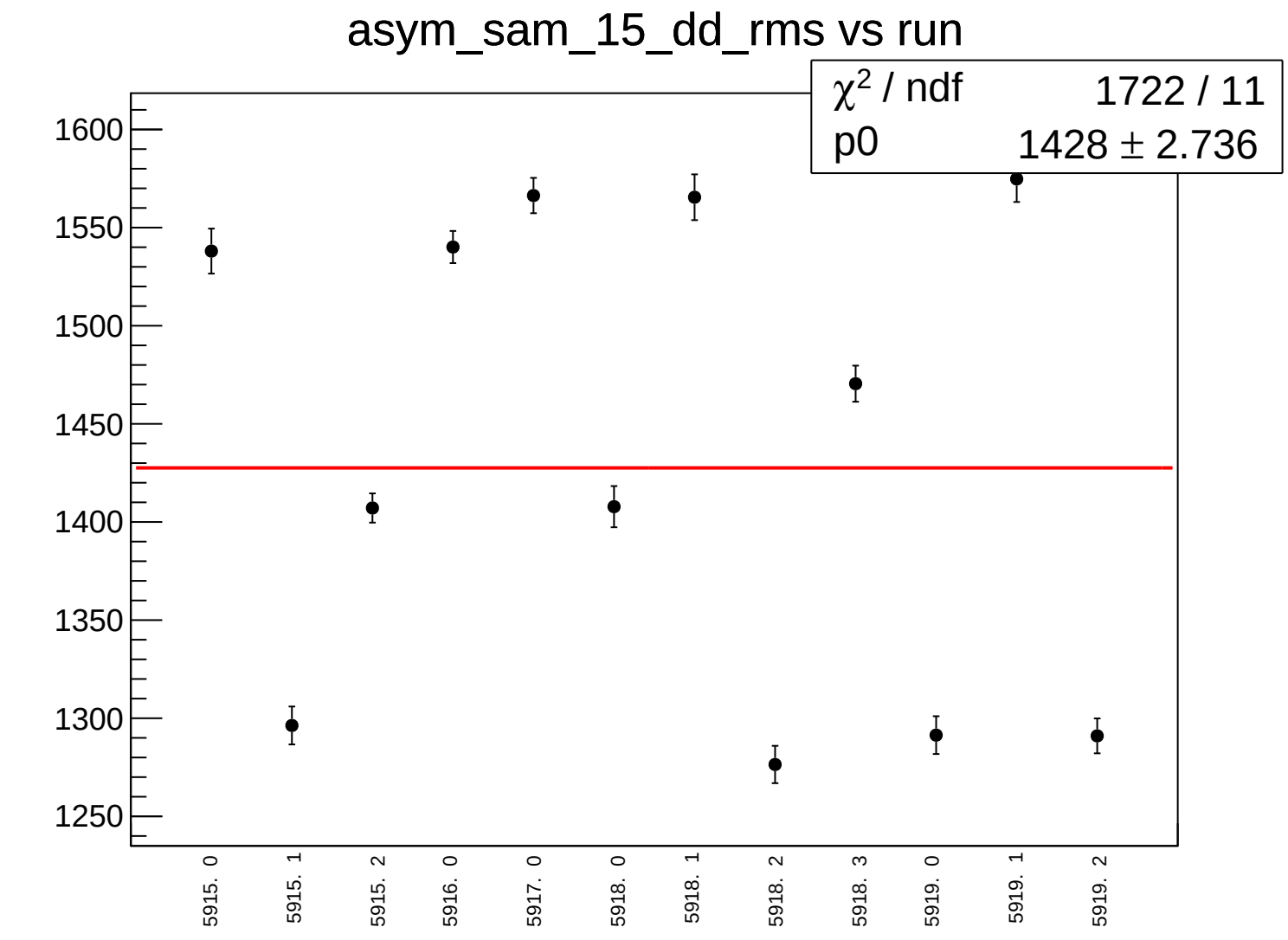

asym_sam_15_dd_correction_mean vs run
χ² / ndf 14.32 / 11
p0 −1464 ± 3857
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 30.38
Std Dev 24.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

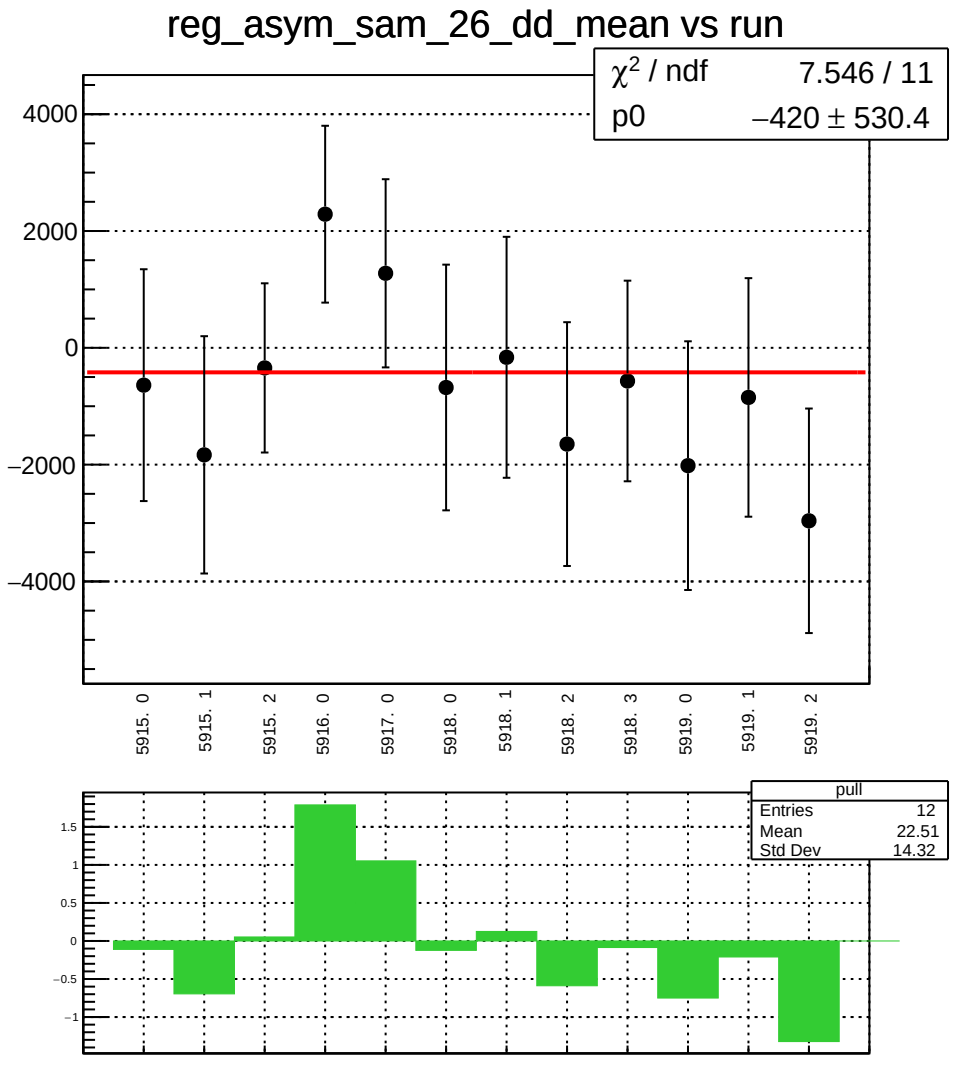

pull1D
Entries 12
Mean −0.07895
Std Dev 1.089
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

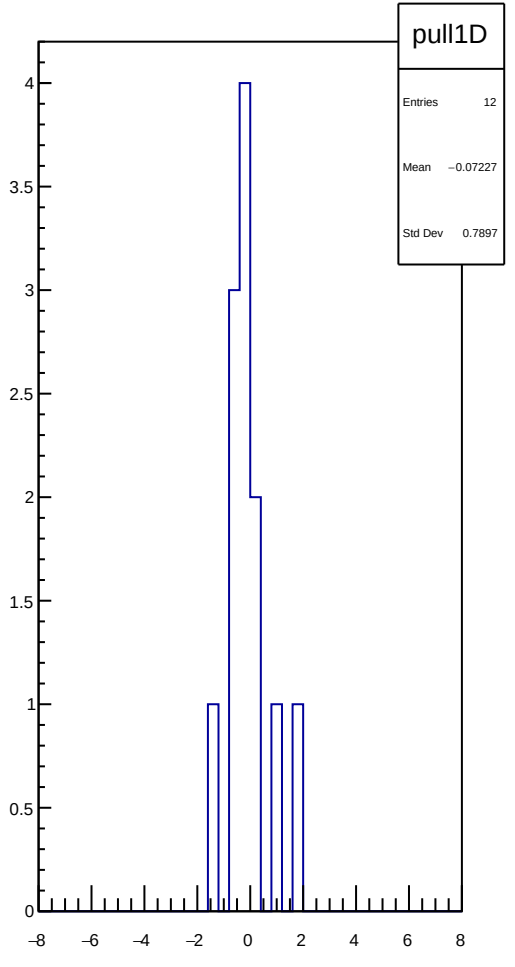

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1743 / 11
p0 1423 ± 2.727
1600
1550
1500
1450
1400
1350
1300
1250
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

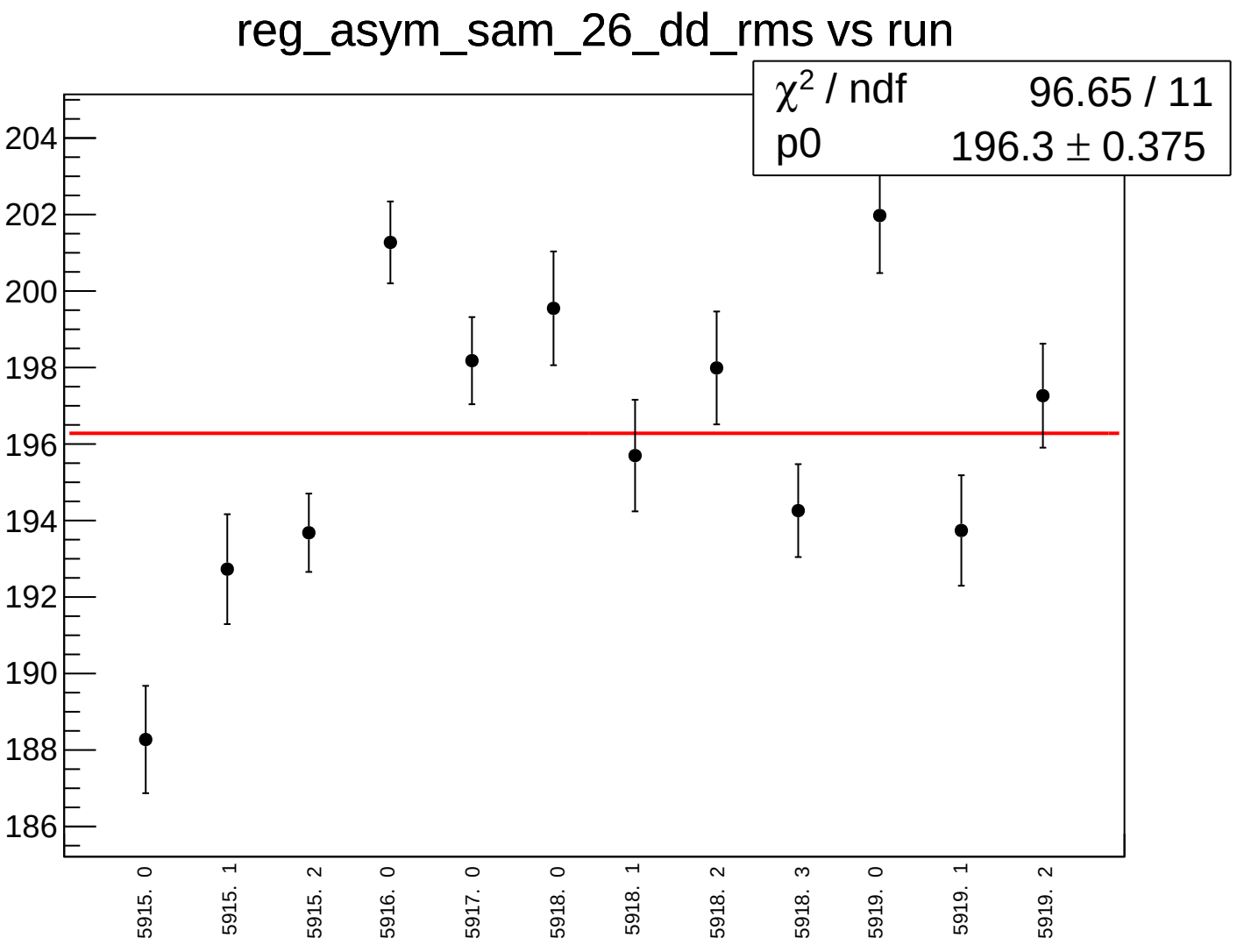

asym_sam_15_dd_mean vs run
χ² / ndf 14.12 / 11
p0 1204 ± 3869
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 30.84
Std Dev 24.66
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

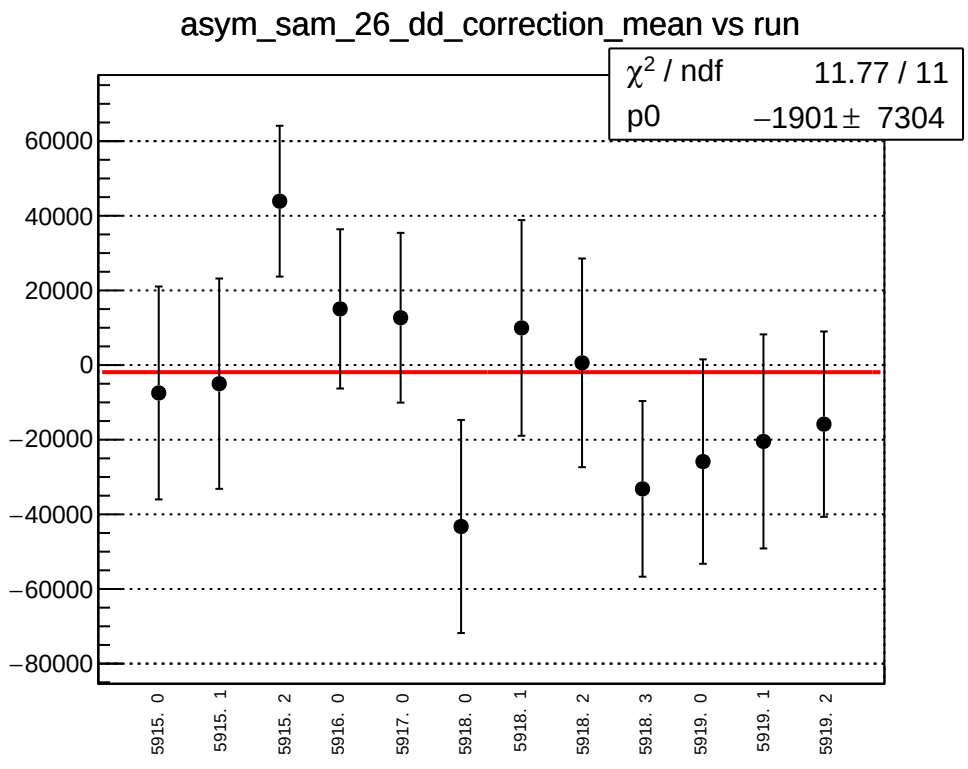

pull1D
Entries 12
Mean 0.07586
Std Dev 1.082
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

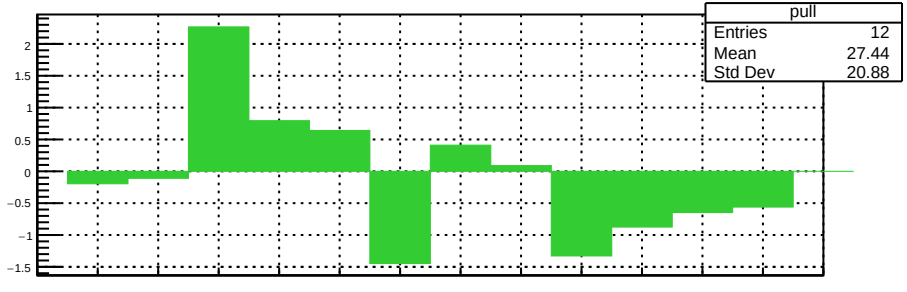

asym_sam_15_dd_rms vs run
χ² / ndf 1722 / 11
p0 1428 ± 2.736
1600
1550
1500
1450
1400
1350
1300
1250
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

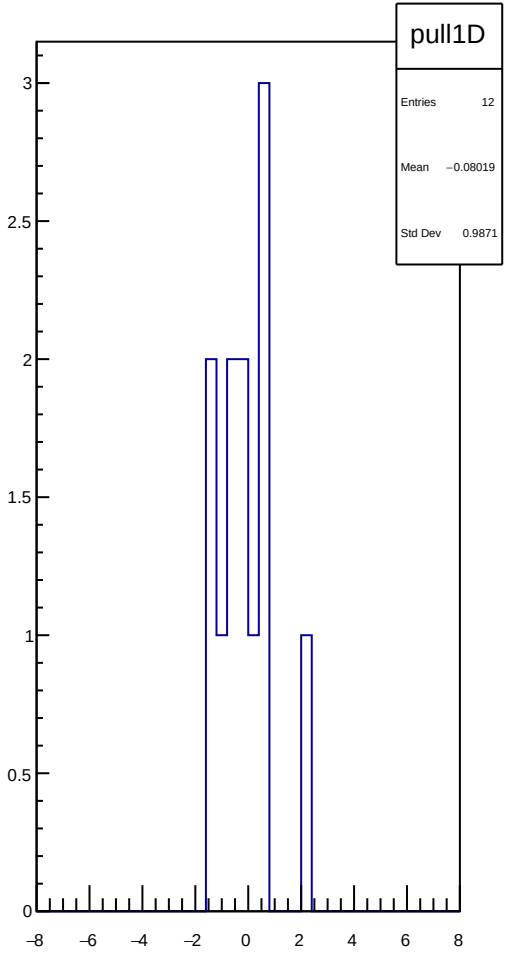

reg_asym_sam_26_dd_mean vs run
χ² / ndf 7.546 / 11
p0 −420 ± 530.4
4000
2000
0
−2000
−4000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.51
Std Dev 14.32
1.5
1
0.5
0
−0.5
−1

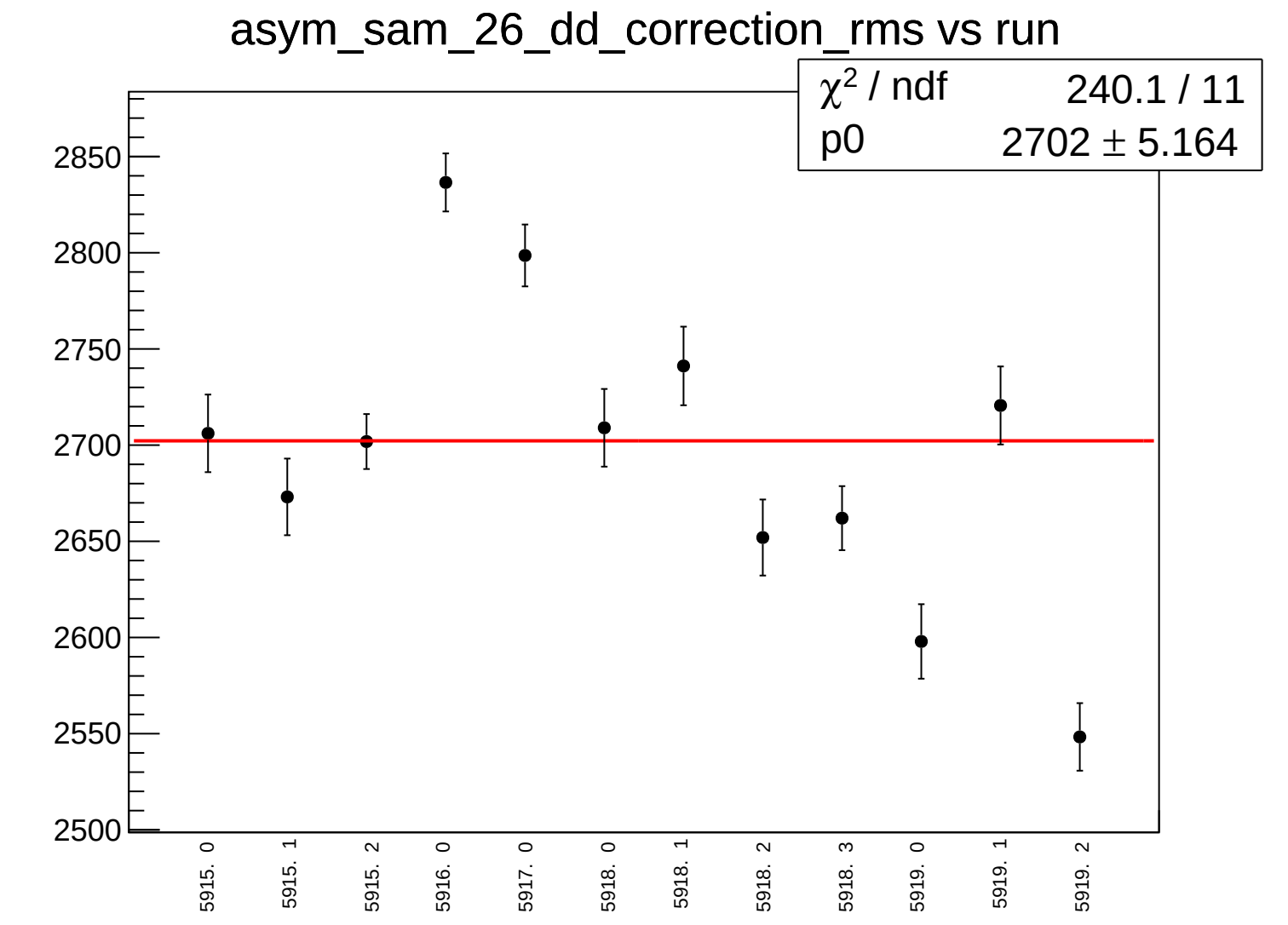

pull1D
Entries 12
Mean −0.07227
Std Dev 0.7897
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

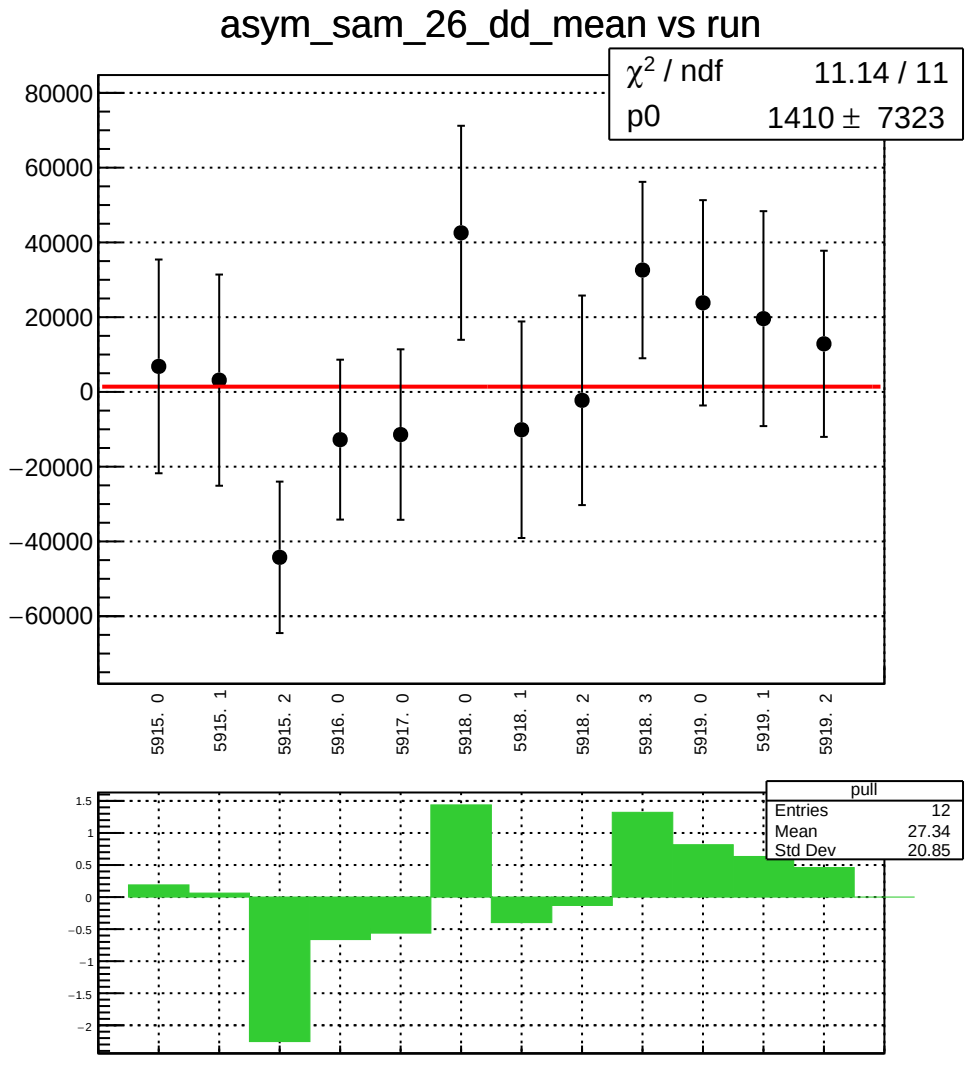

reg_asym_sam_26_dd_rms vs run
χ² / ndf 96.65 / 11
p0 196.3 ± 0.375
204
202
200
198
196
194
192
190
188
186
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

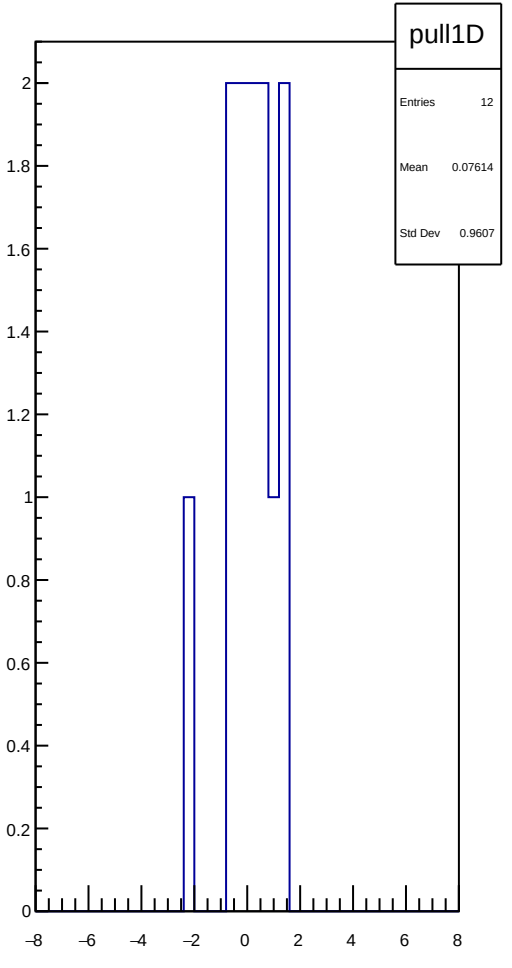

asym_sam_26_dd_correction_mean vs run
χ² / ndf 11.77 / 11
p0 −1901 ± 7304
60000
40000
20000
0
−20000
−40000
−60000
−80000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

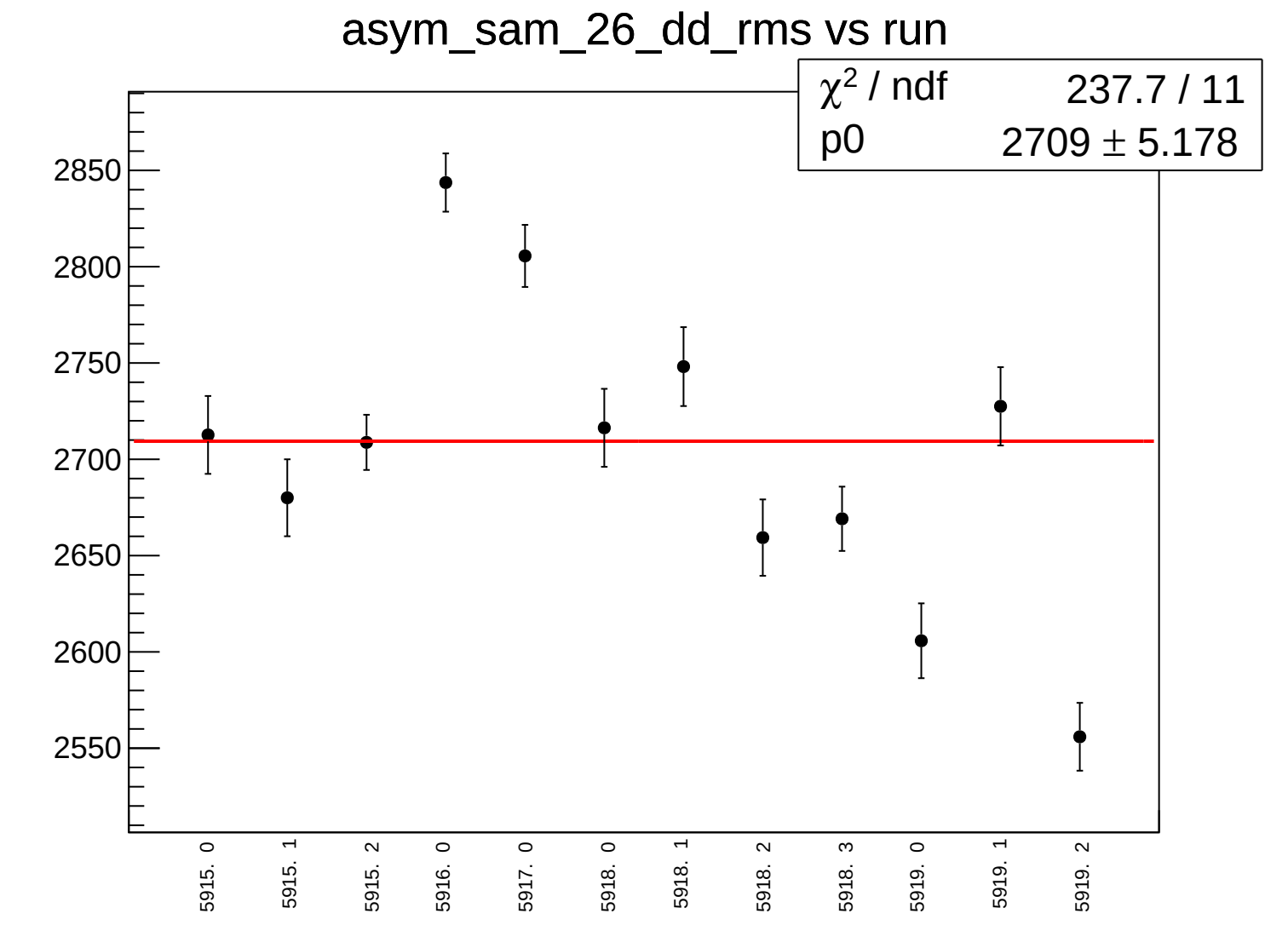

pull
Entries 12
Mean 27.44
Std Dev 20.88
2
1.5
1
0.5
0
−0.5
−1
−1.5

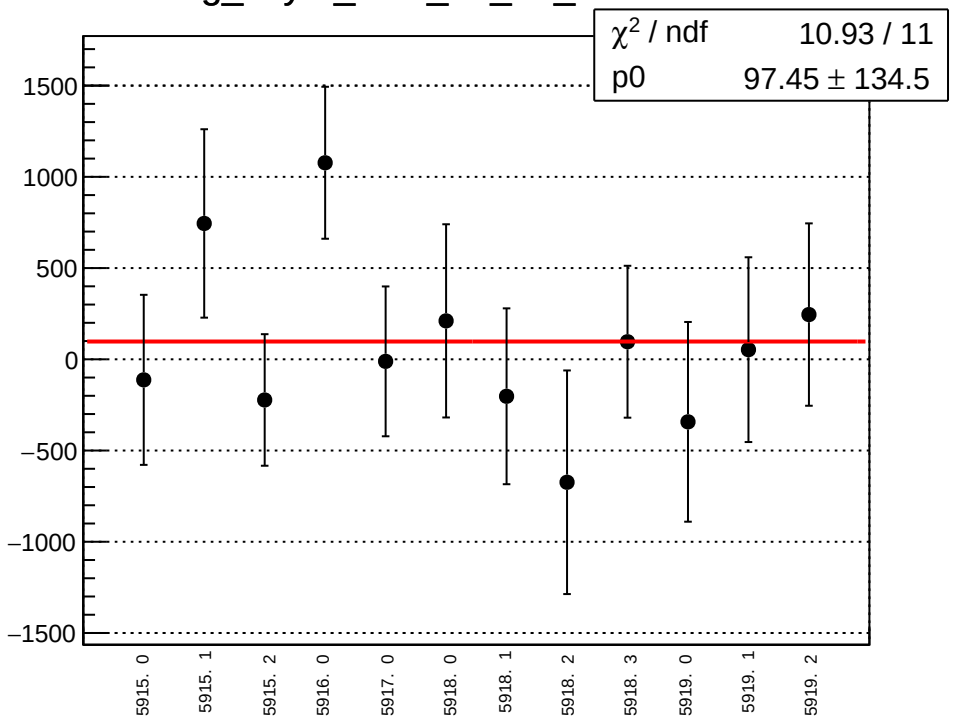

pull1D
Entries 12
Mean −0.08019
Std Dev 0.9871
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

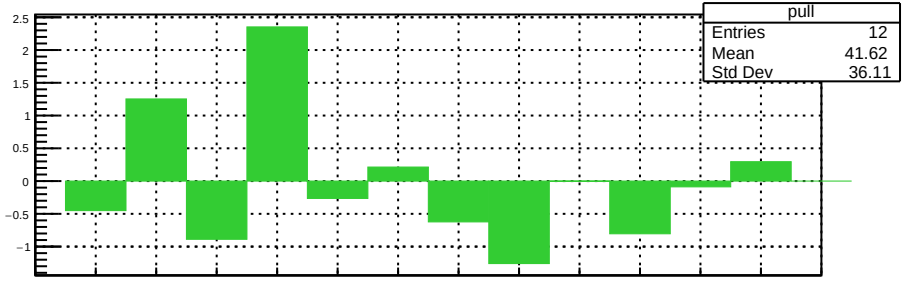

asym_sam_26_dd_correction_rms vs run
χ² / ndf 240.1 / 11
p0 2702 ± 5.164
2850
2800
2750
2700
2650
2600
2550
2500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

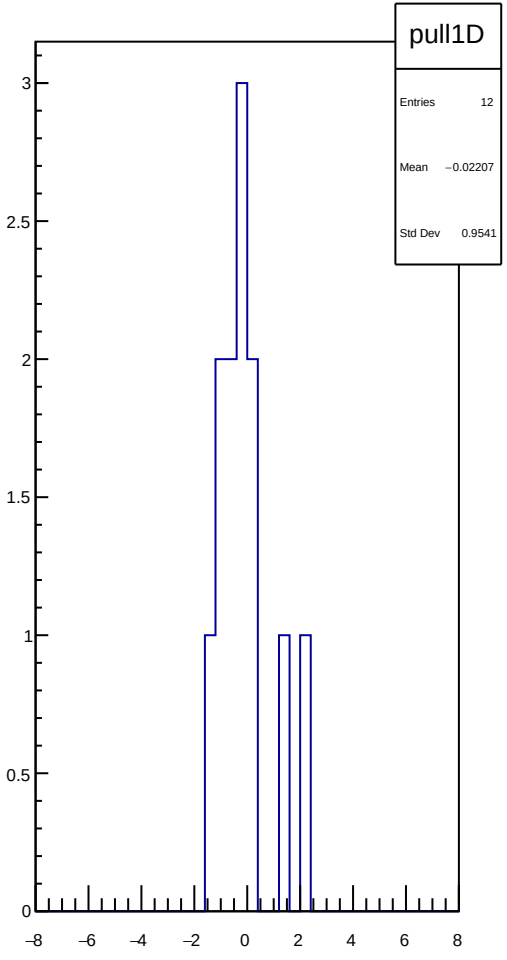

asym_sam_26_dd_mean vs run
χ² / ndf 11.14 / 11
p0 1410 ± 7323
80000
60000
40000
20000
0
−20000
−40000
−60000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.34
Std Dev 20.85
1.5
1
0.5
0
−0.5
−1
−1.5
−2

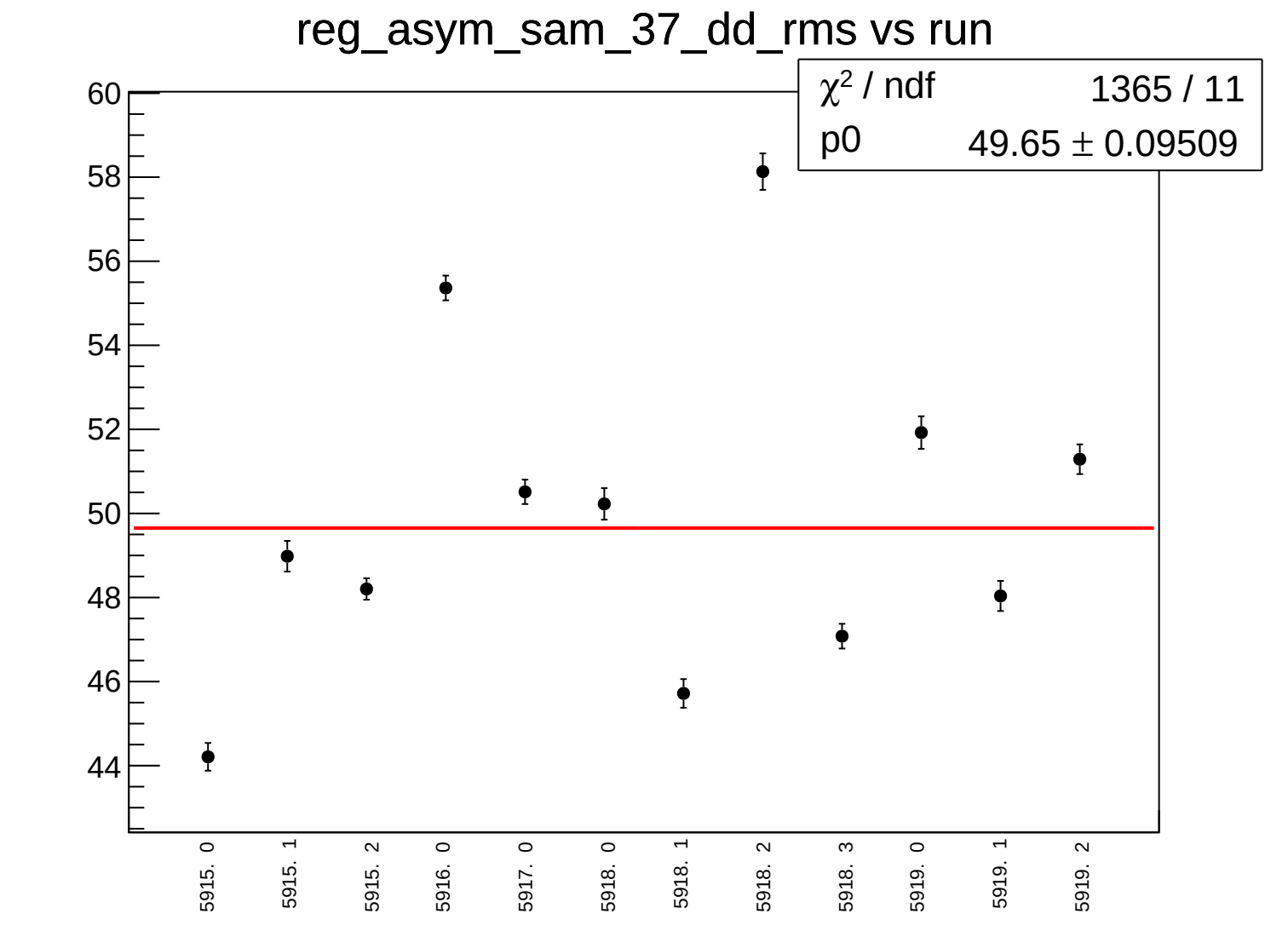

pull1D
Entries 12
Mean 0.07614
Std Dev 0.9607
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

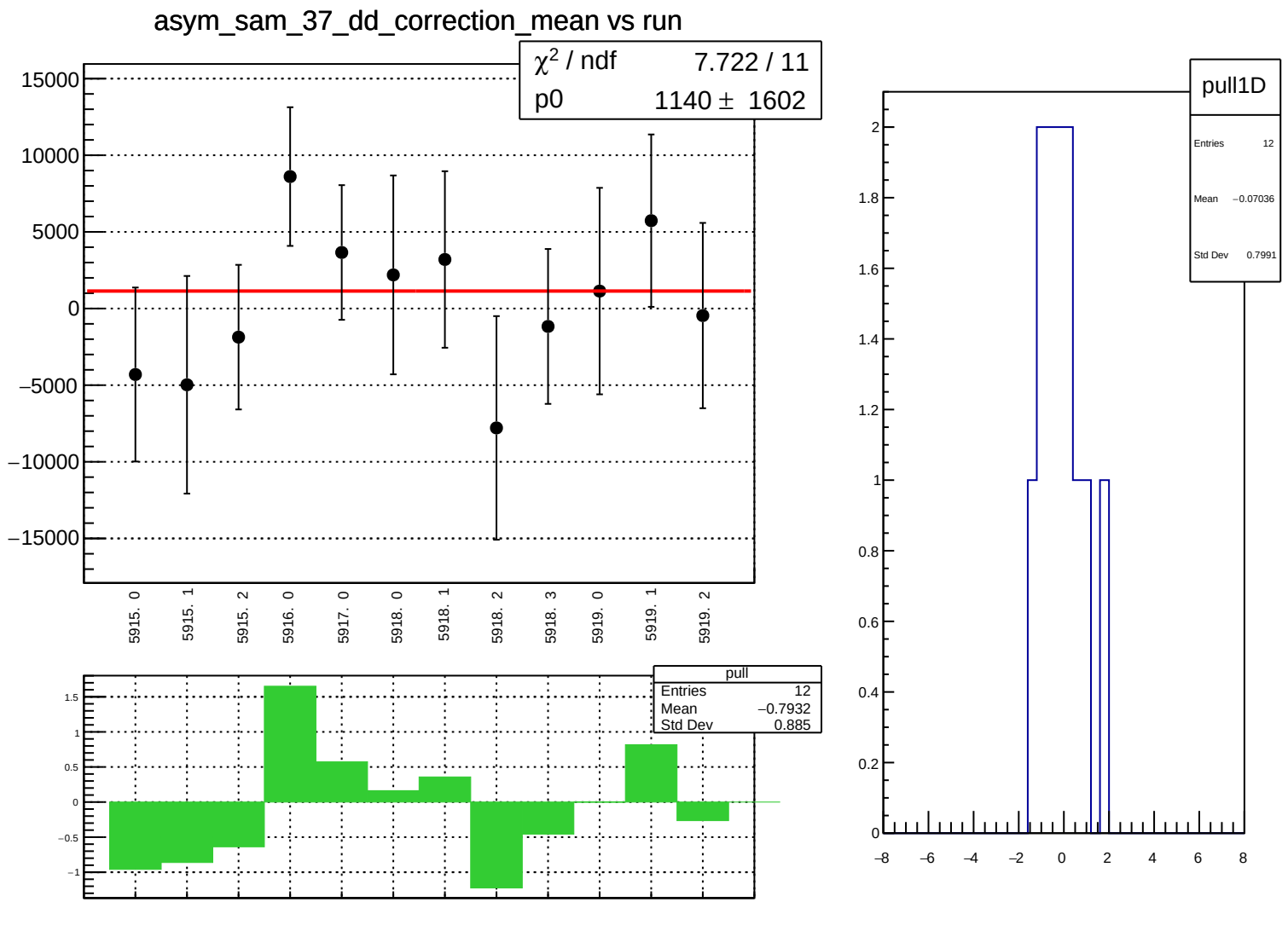

asym_sam_26_dd_rms vs run
χ² / ndf 237.7 / 11
p0 2709 ± 5.178
2850
2800
2750
2700
2650
2600
2550
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

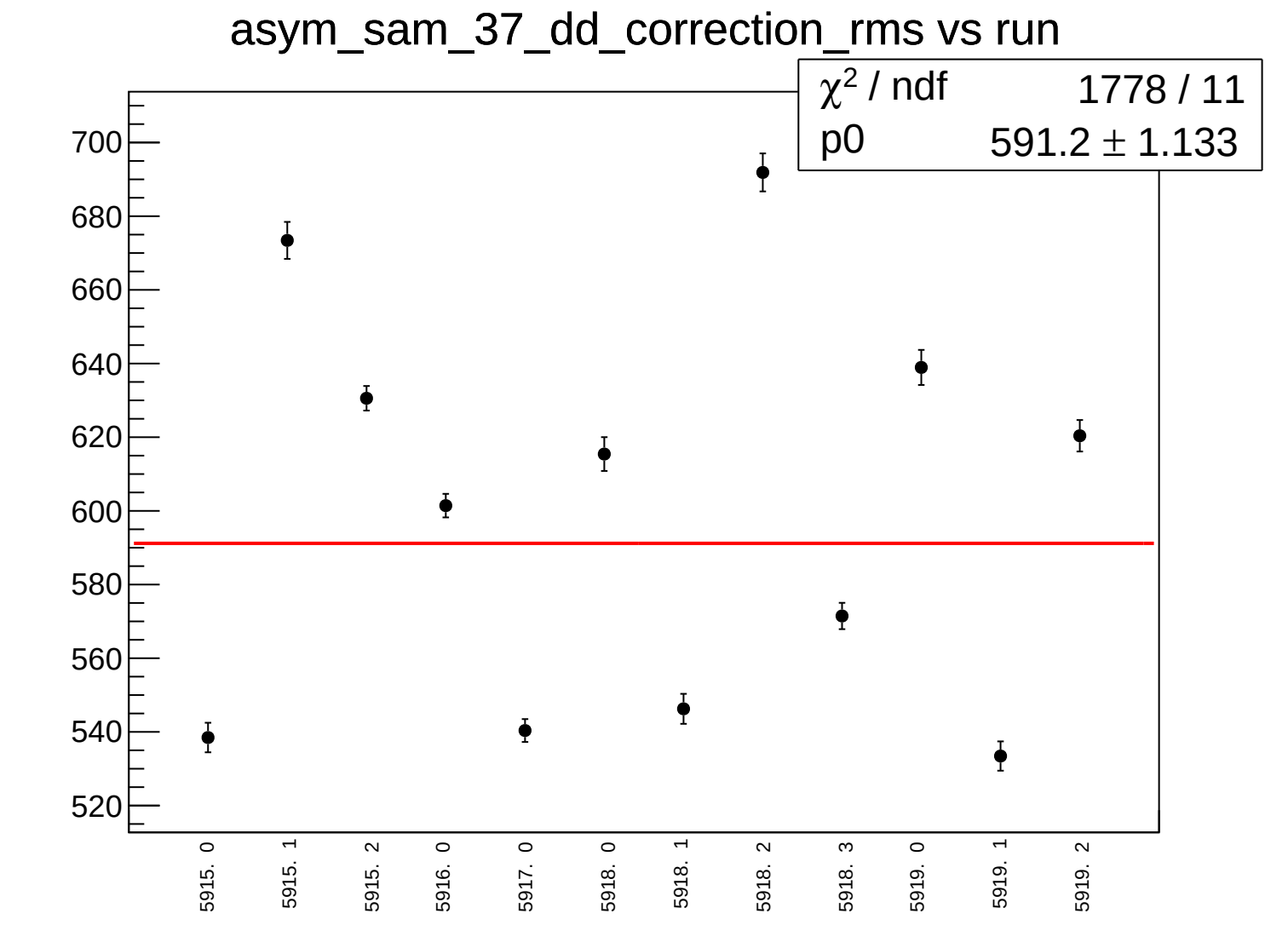

reg_asym_sam_37_dd_mean vs run
χ² / ndf 10.93 / 11
p0 97.45 ± 134.5
1500
1000
500
0
−500
−1000
−1500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

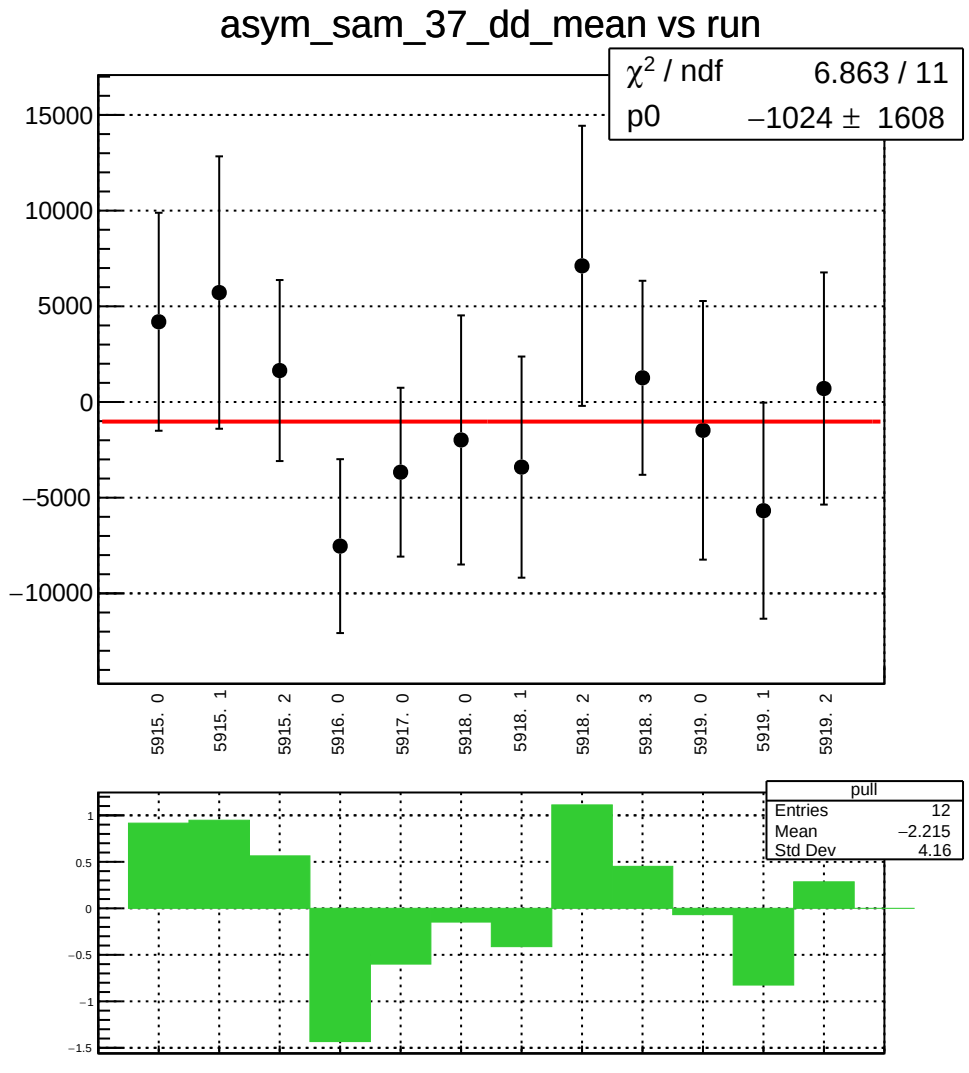

pull
Entries 12
Mean 41.62
Std Dev 36.11
2.5
2
1.5
1
0.5
0
−0.5
−1

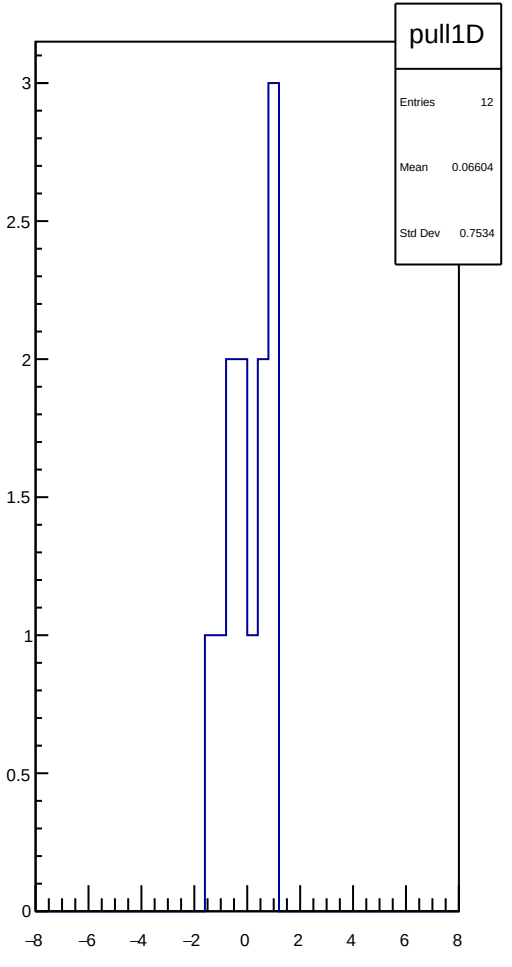

pull1D
Entries 12
Mean −0.02207
Std Dev 0.9541
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

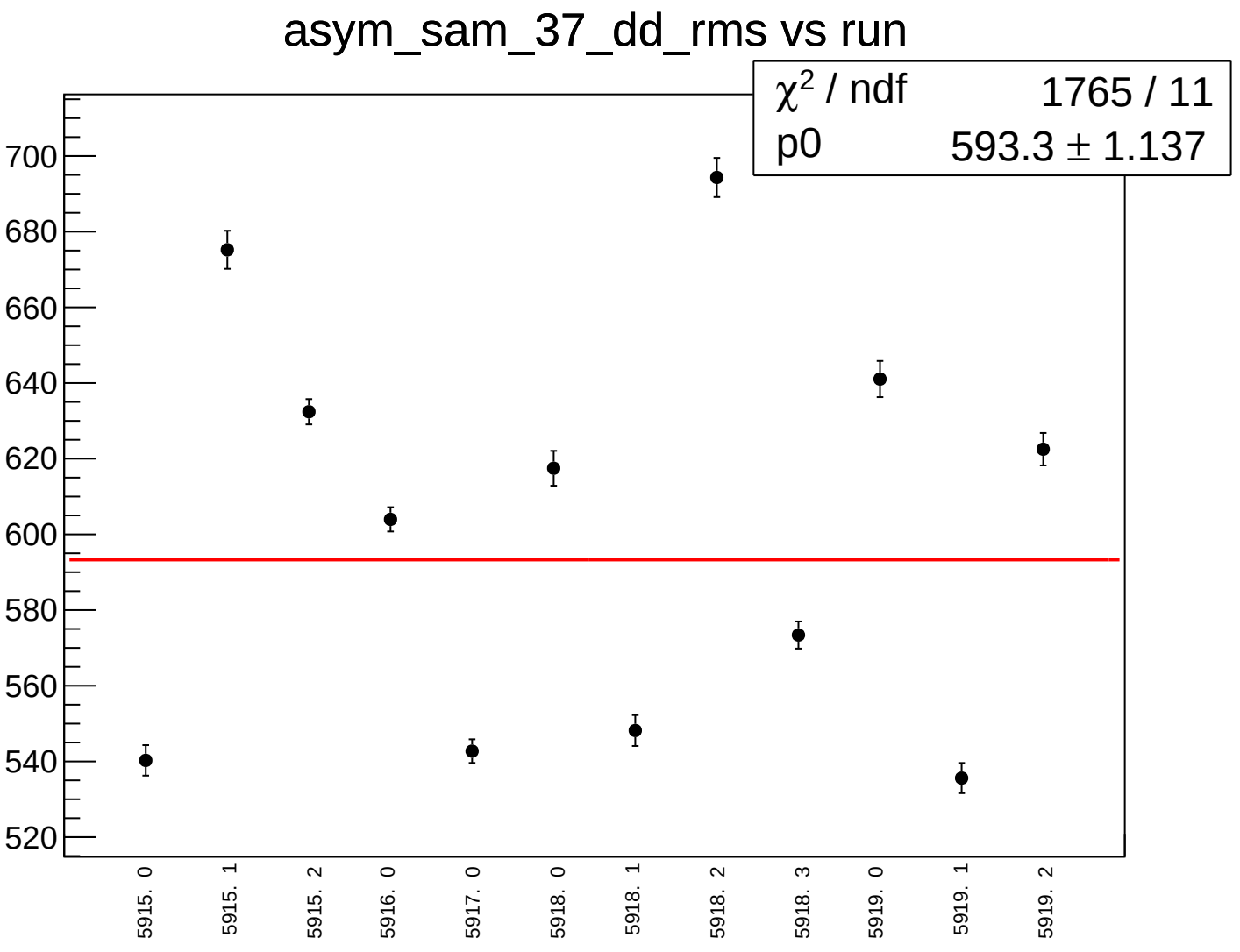

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1365 / 11
p0 49.65 ± 0.09509
60
58
56
54
52
50
48
46
44
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

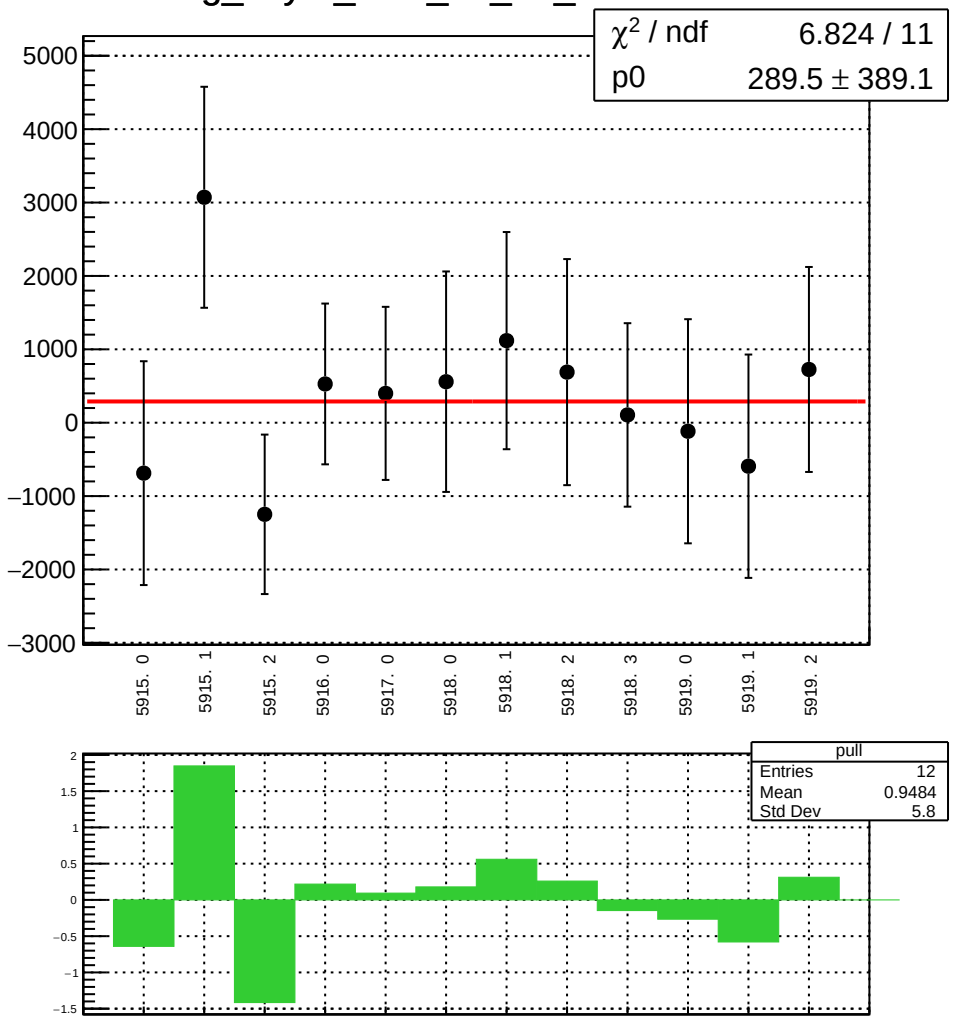

asym_sam_37_dd_correction_mean vs run
χ² / ndf 7.722 / 11
p0 1140 ± 1602
15000
10000
5000
0
−5000
−10000
−15000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −0.7932
Std Dev 0.885
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.07036
Std Dev 0.7991
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

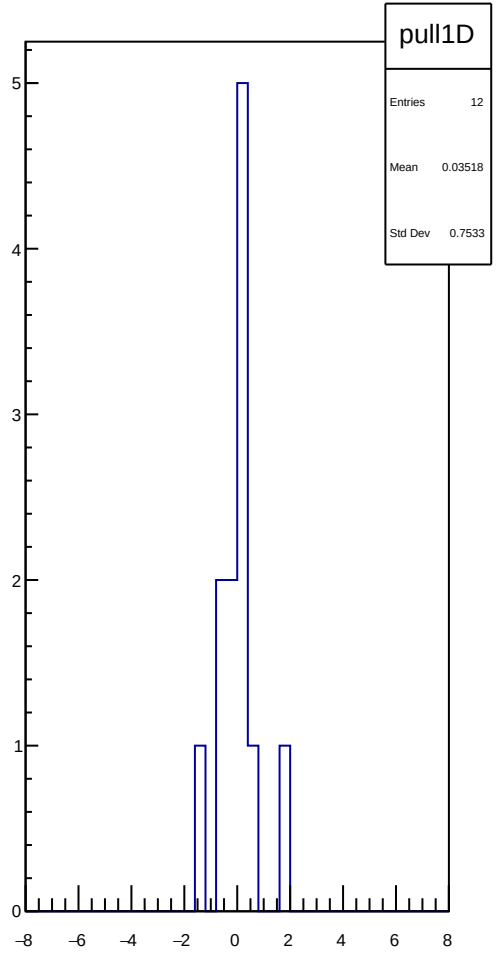

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1778 / 11
p0 591.2 ± 1.133
700
680
660
640
620
600
580
560
540
520
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

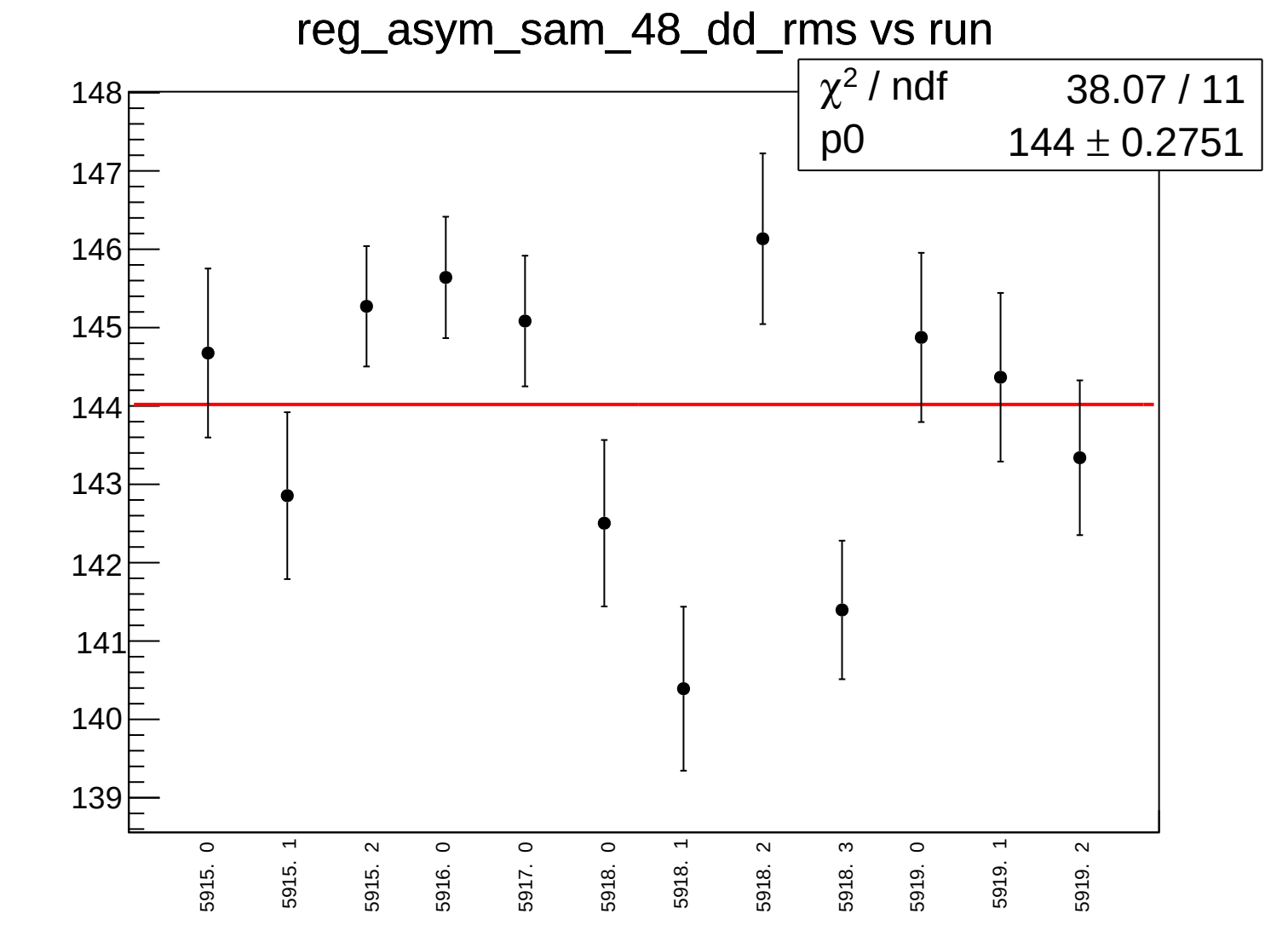

asym_sam_37_dd_mean vs run
χ² / ndf 6.863 / 11
p0 −1024 ± 1608
15000
10000
5000
0
−5000
−10000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −2.215
Std Dev 4.16
1
0.5
0
−0.5
−1
−1.5

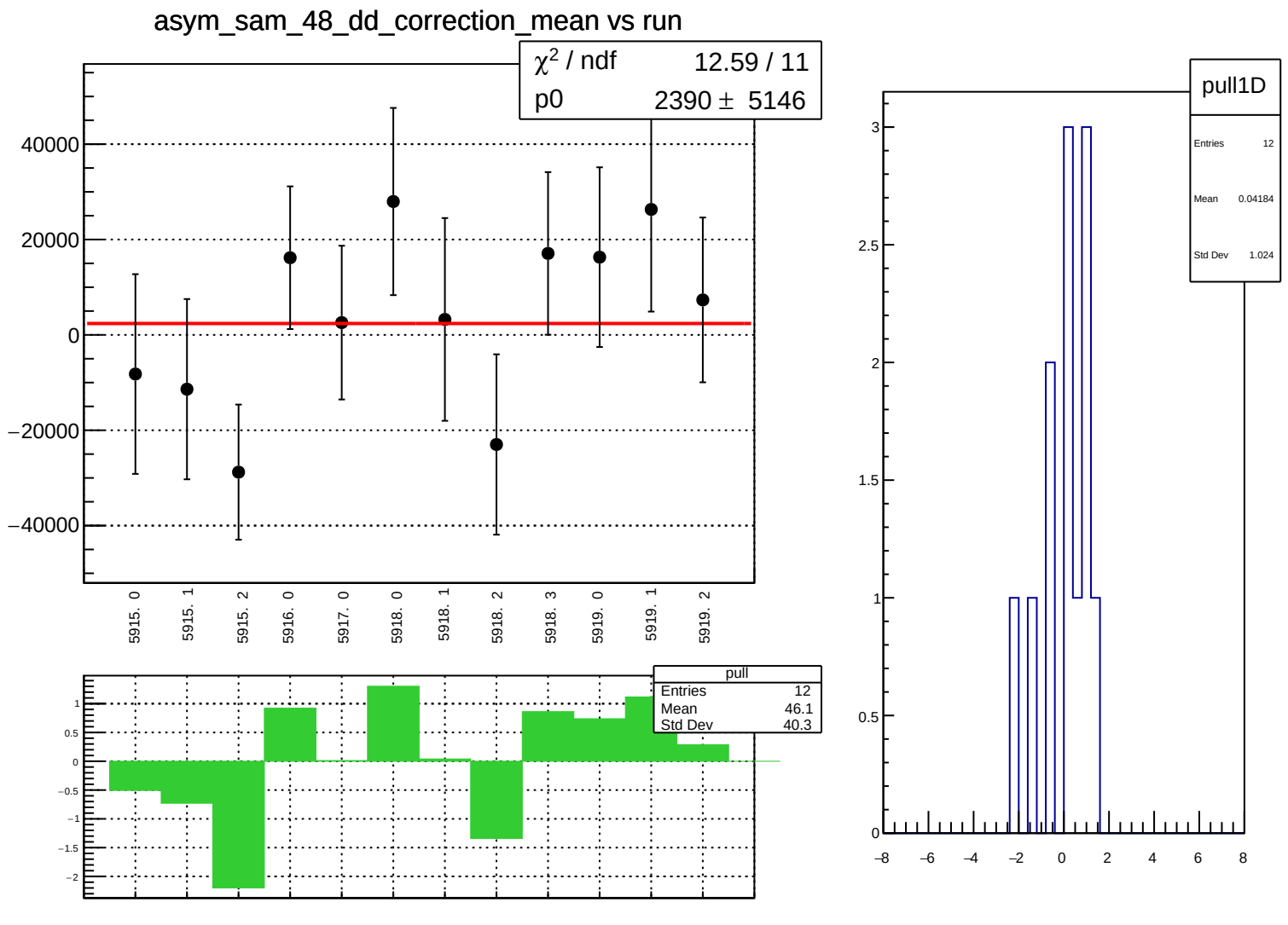

pull1D
Entries 12
Mean 0.06604
Std Dev 0.7534
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

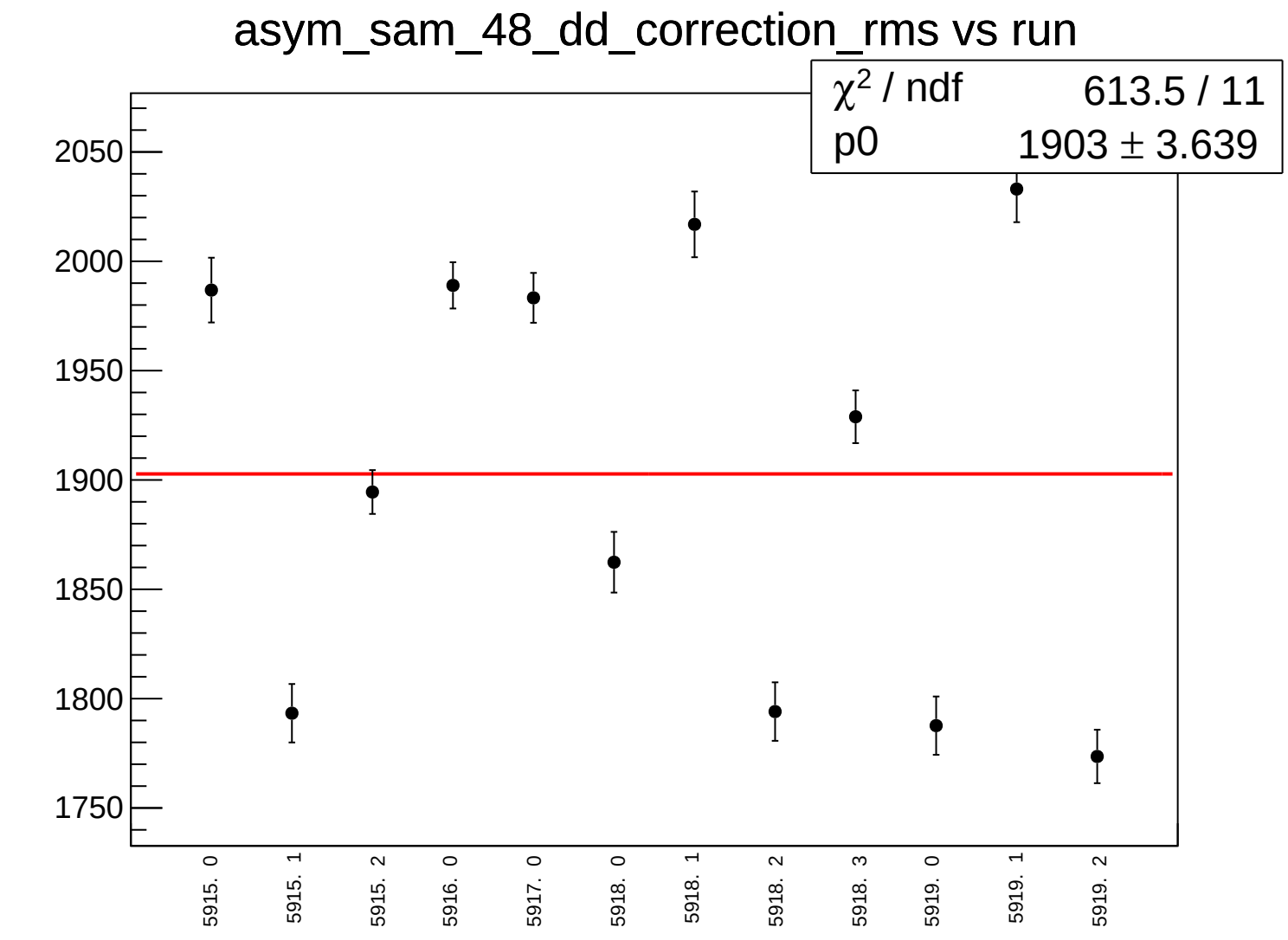

asym_sam_37_dd_rms vs run
χ² / ndf 1765 / 11
p0 593.3 ± 1.137
700
680
660
640
620
600
580
560
540
520
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

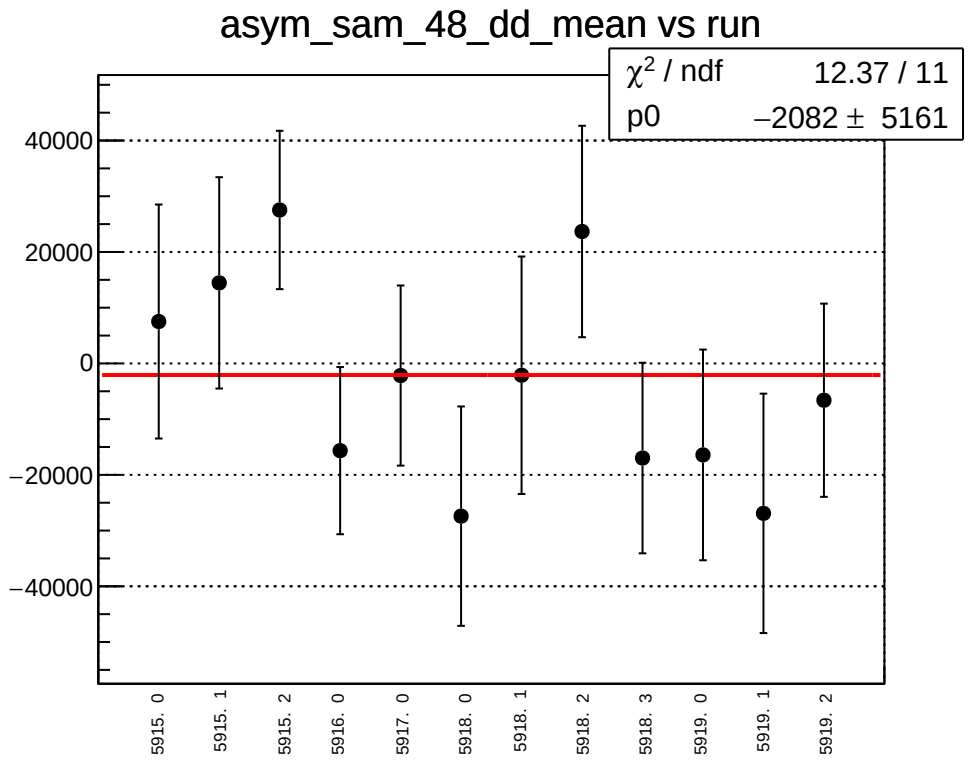

reg_asym_sam_48_dd_mean vs run
χ² / ndf 6.824 / 11
p0 289.5 ± 389.1
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.9484
Std Dev 5.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

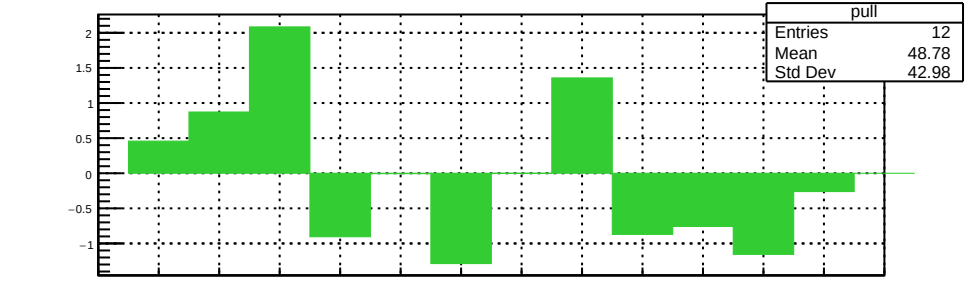

pull1D
Entries 12
Mean 0.03518
Std Dev 0.7533
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

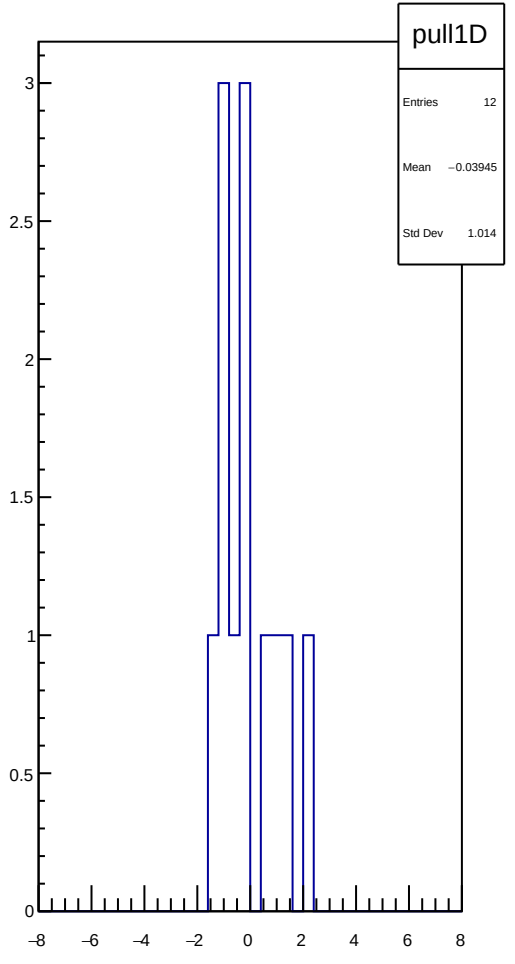

reg_asym_sam_48_dd_rms vs run
χ² / ndf 38.07 / 11
p0 144 ± 0.2751
148
147
146
145
144
143
142
141
140
139
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

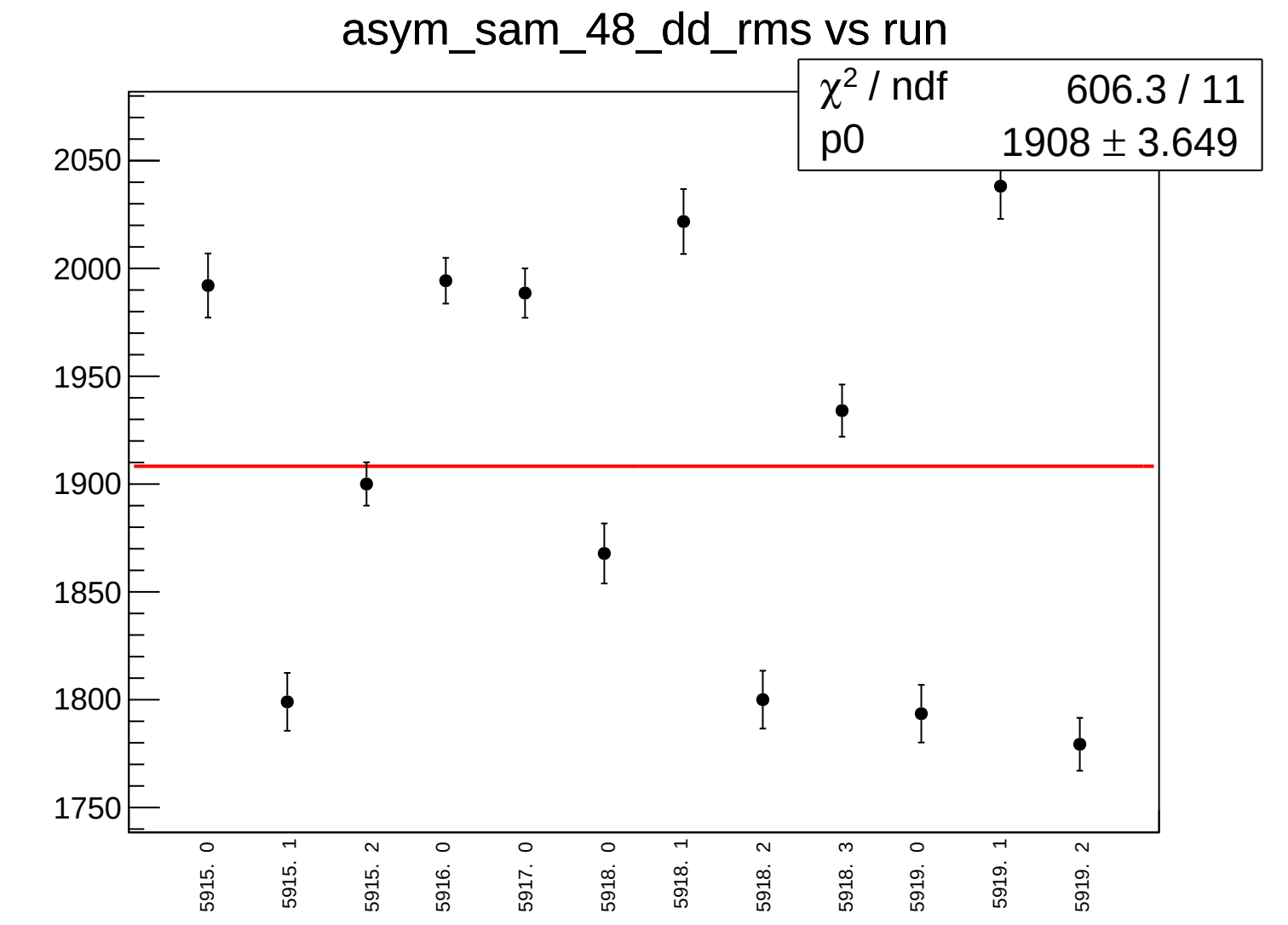

asym_sam_48_dd_correction_mean vs run
χ² / ndf 12.59 / 11
p0 2390 ± 5146
40000
20000
0
−20000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 46.1
Std Dev 40.3
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.04184
Std Dev 1.024
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

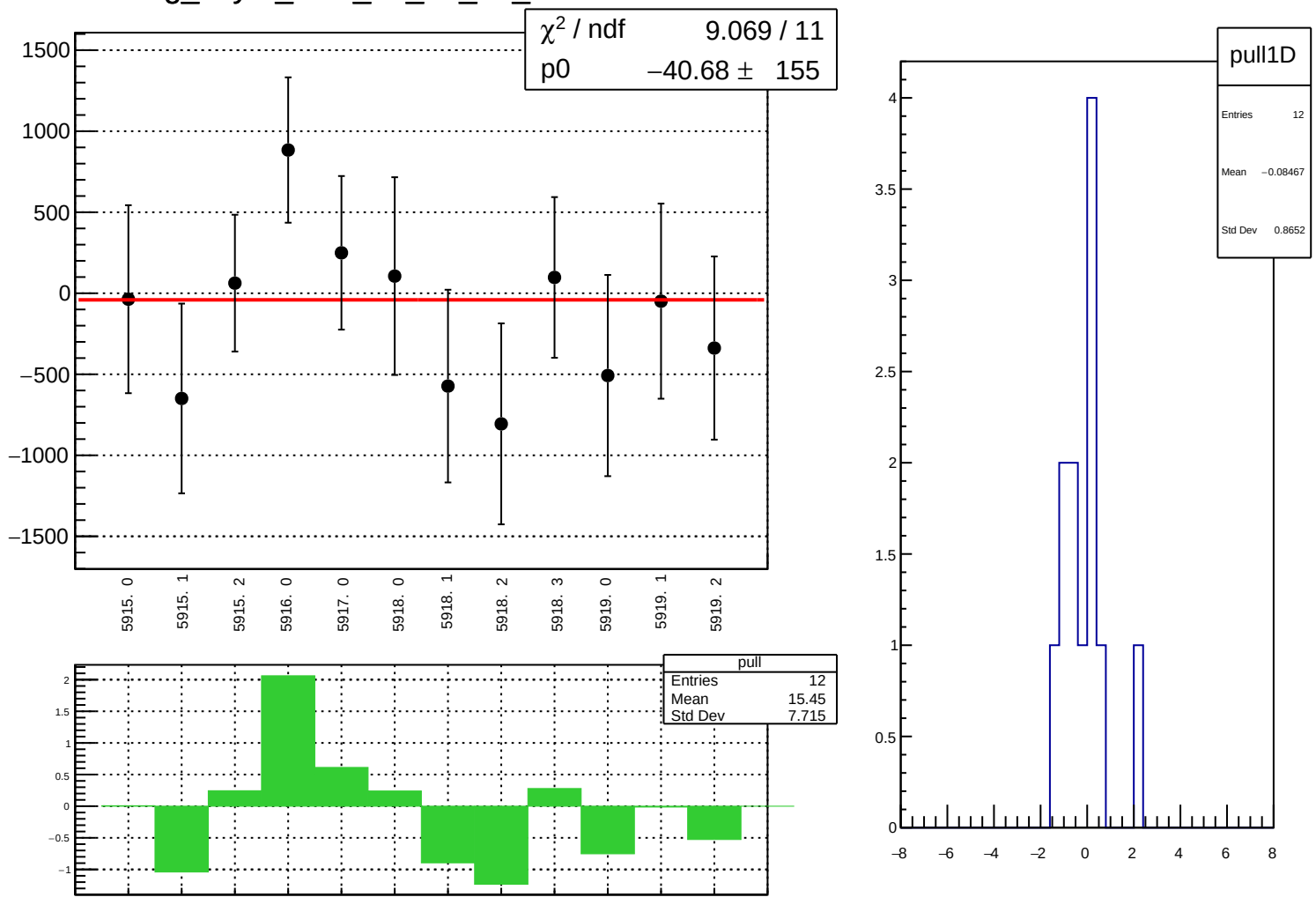

asym_sam_48_dd_correction_rms vs run
χ² / ndf 613.5 / 11
p0 1903 ± 3.639
2050
2000
1950
1900
1850
1800
1750
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

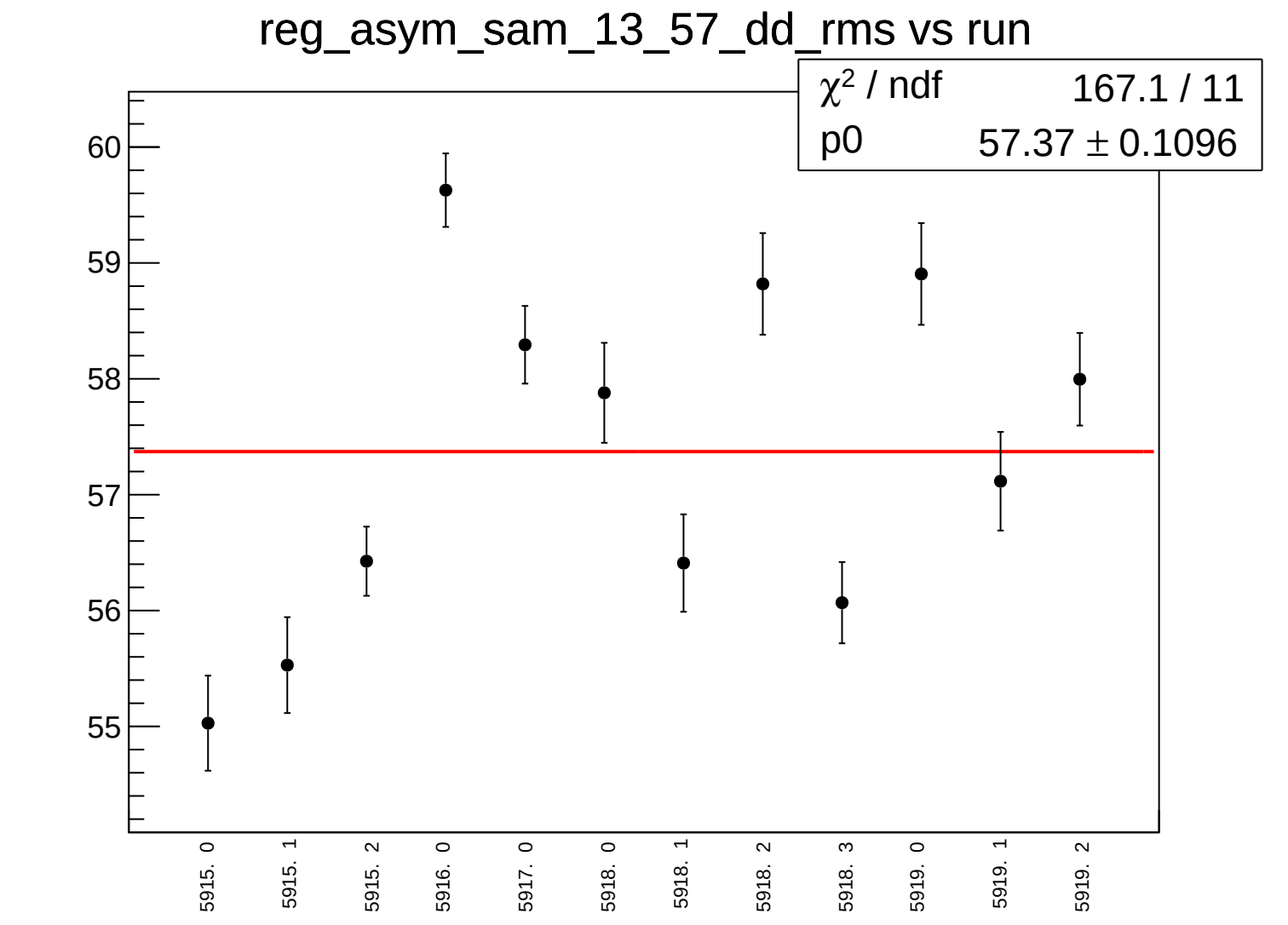

asym_sam_48_dd_mean vs run
χ² / ndf 12.37 / 11
p0 −2082 ± 5161
40000
20000
0
−20000
−40000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

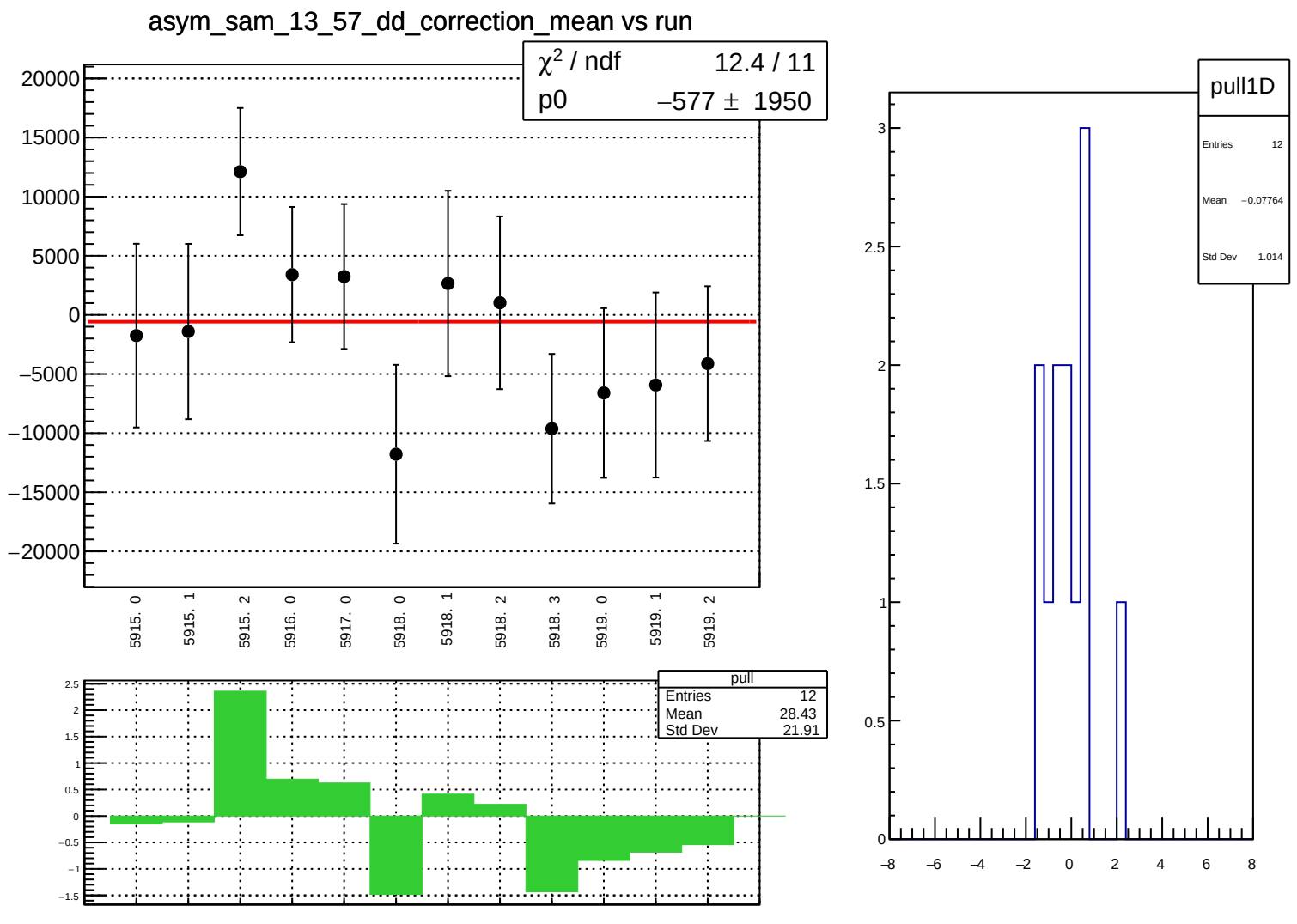

pull
Entries 12
Mean 48.78
Std Dev 42.98
2
1.5
1
0.5
0
−0.5
−1

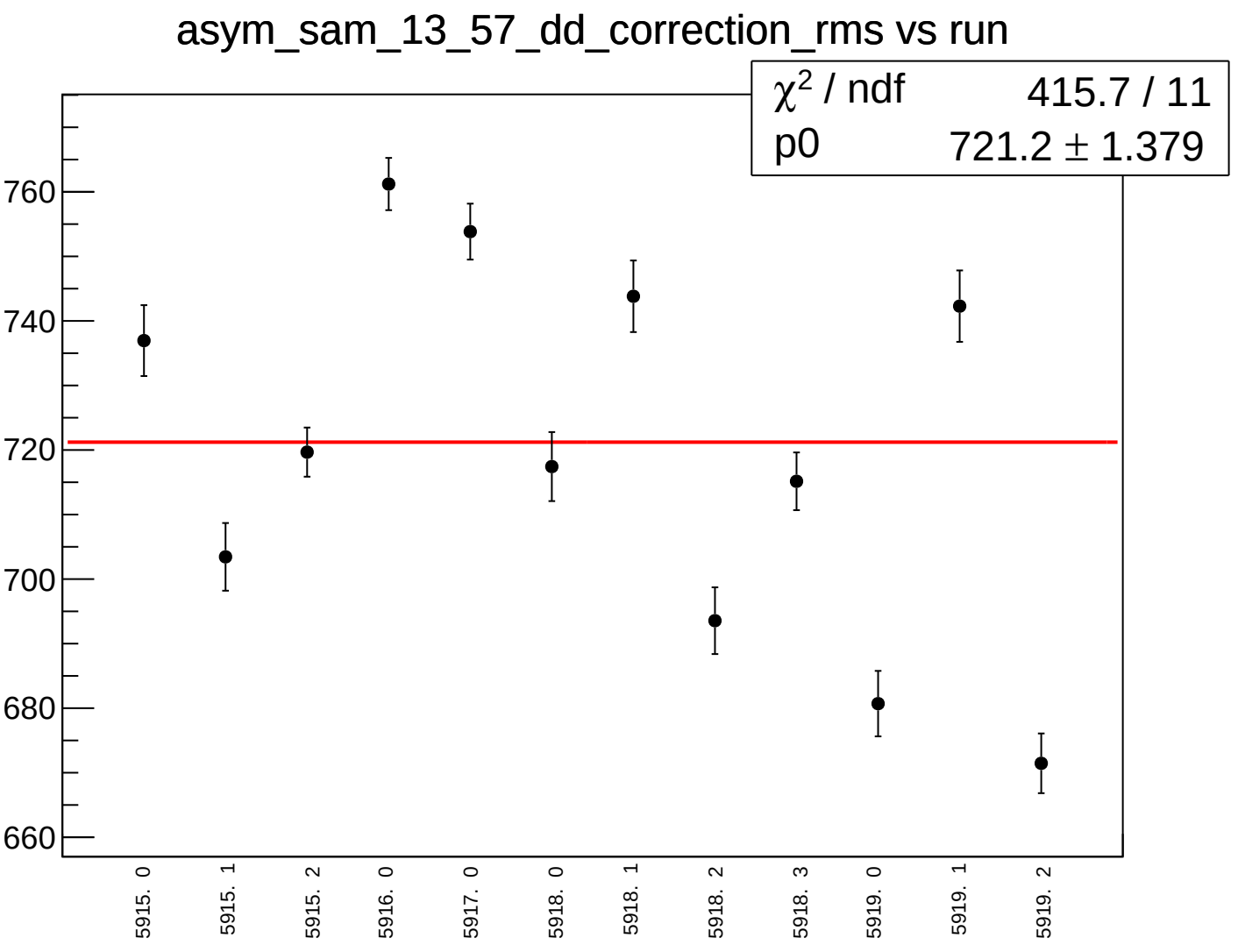

pull1D
Entries 12
Mean −0.03945
Std Dev 1.014
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

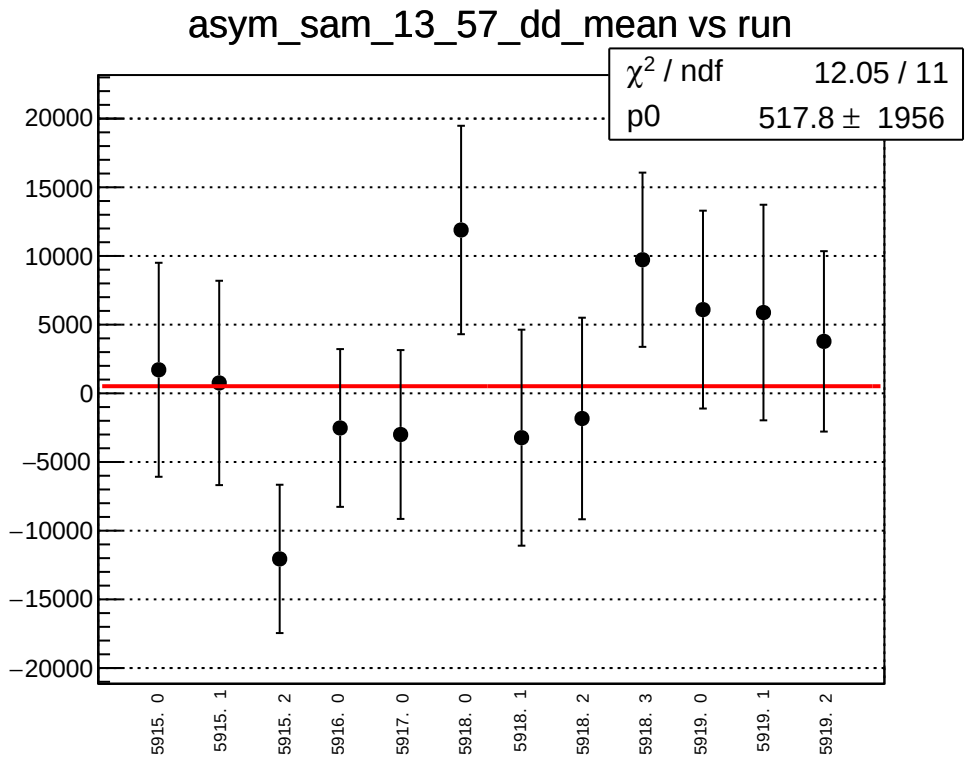

asym_sam_48_dd_rms vs run
χ² / ndf 606.3 / 11
p0 1908 ± 3.649
2050
2000
1950
1900
1850
1800
1750
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

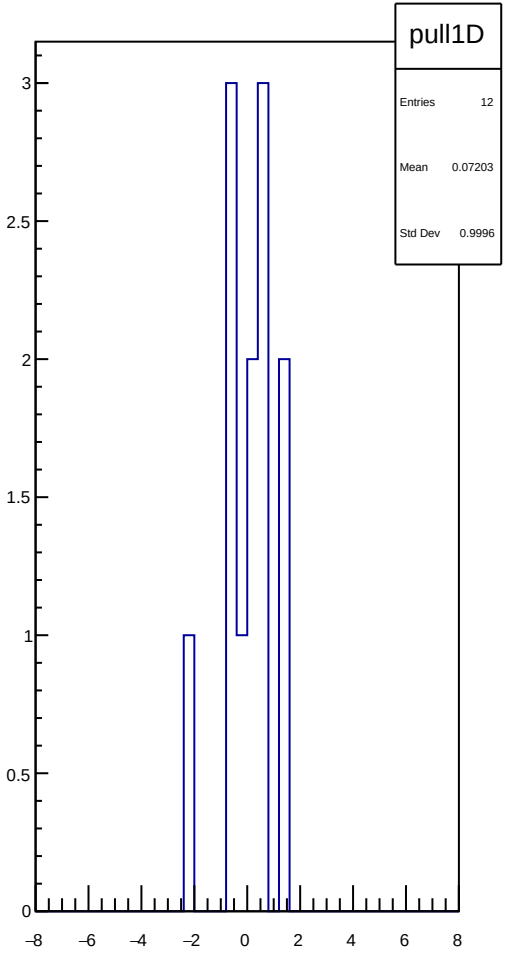

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 9.069 / 11
p0 −40.68 ± 155
1500
1000
500
0
−500
−1000
−1500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 15.45
Std Dev 7.715
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.08467
Std Dev 0.8652
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

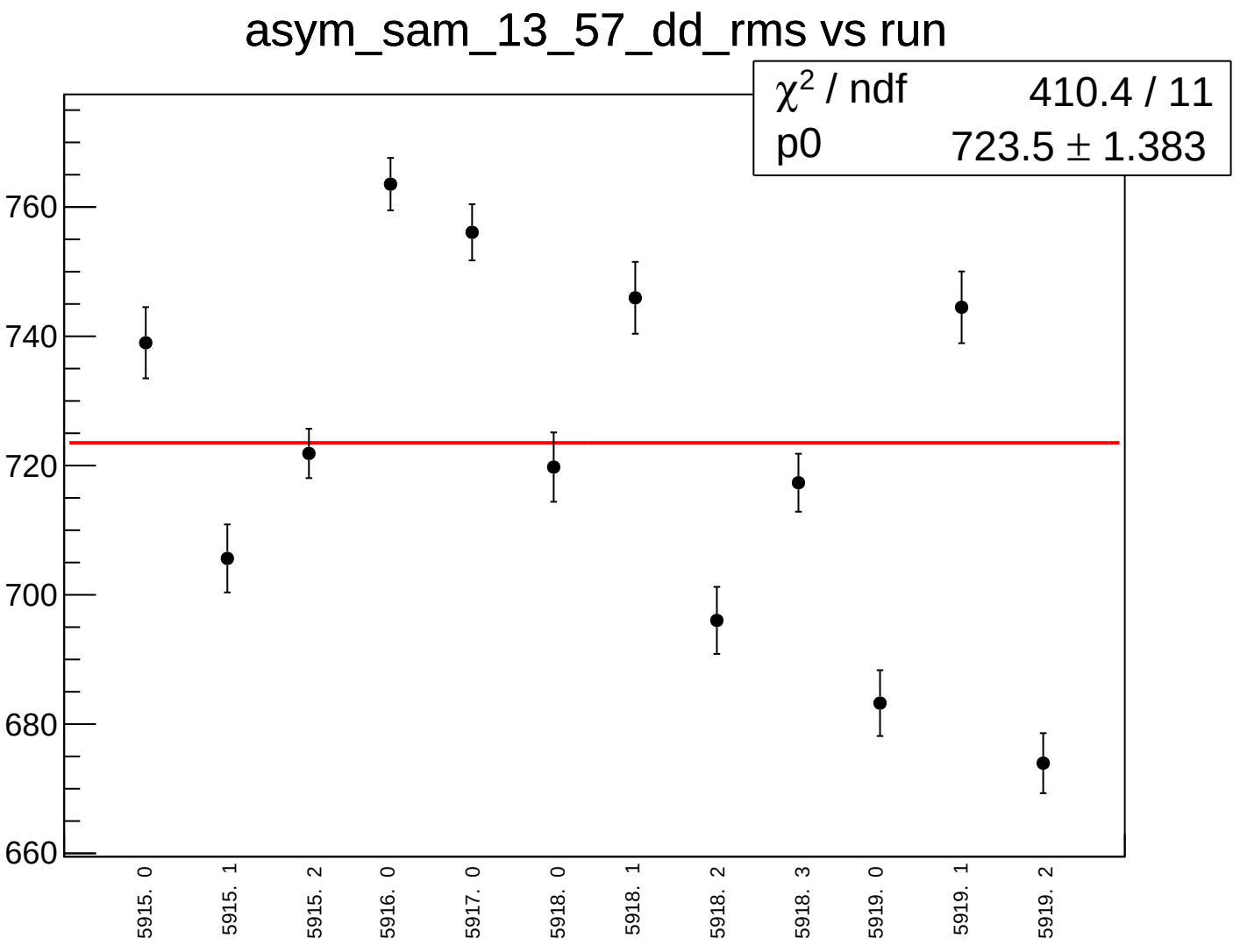

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 167.1 / 11
p0 57.37 ± 0.1096
60
59
58
57
56
55
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

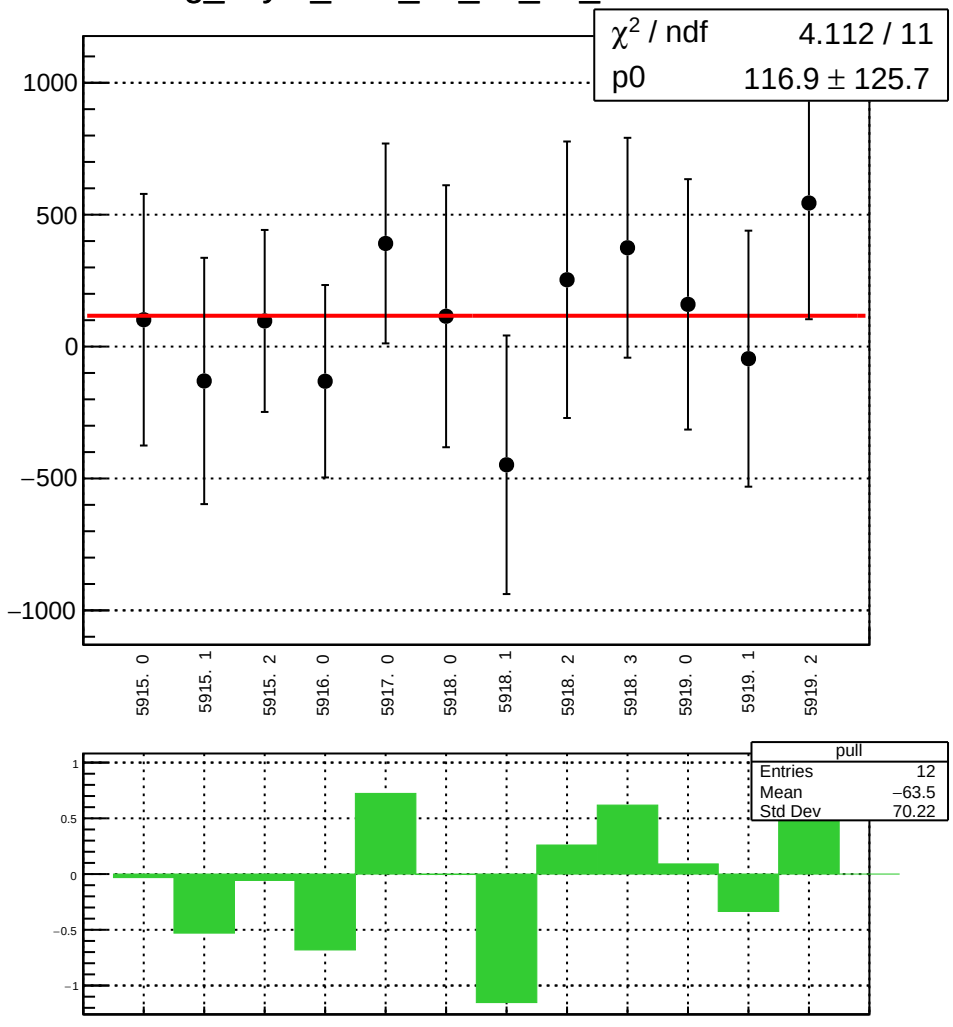

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 12.4 / 11
p0 −577 ± 1950
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.43
Std Dev 21.91
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.07764
Std Dev 1.014
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

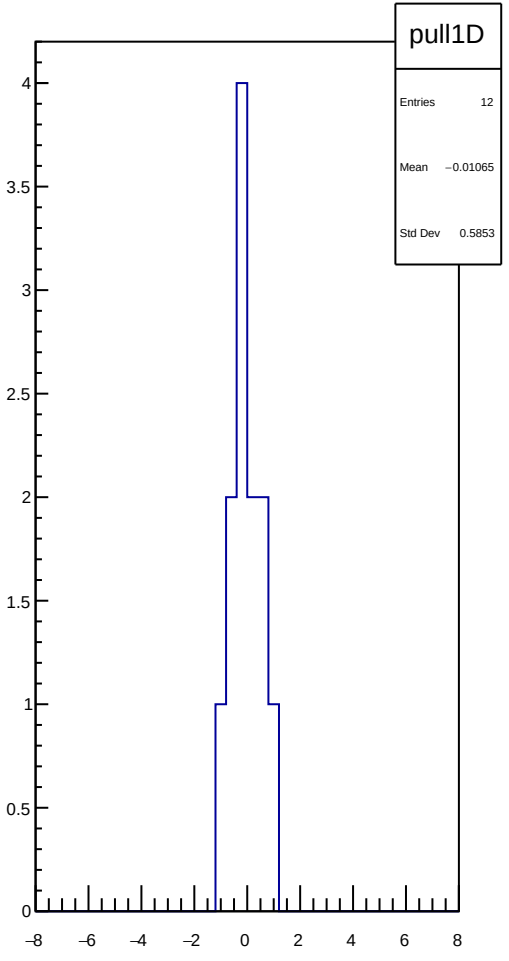

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 415.7 / 11
p0 721.2 ± 1.379
760
740
720
700
680
660
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

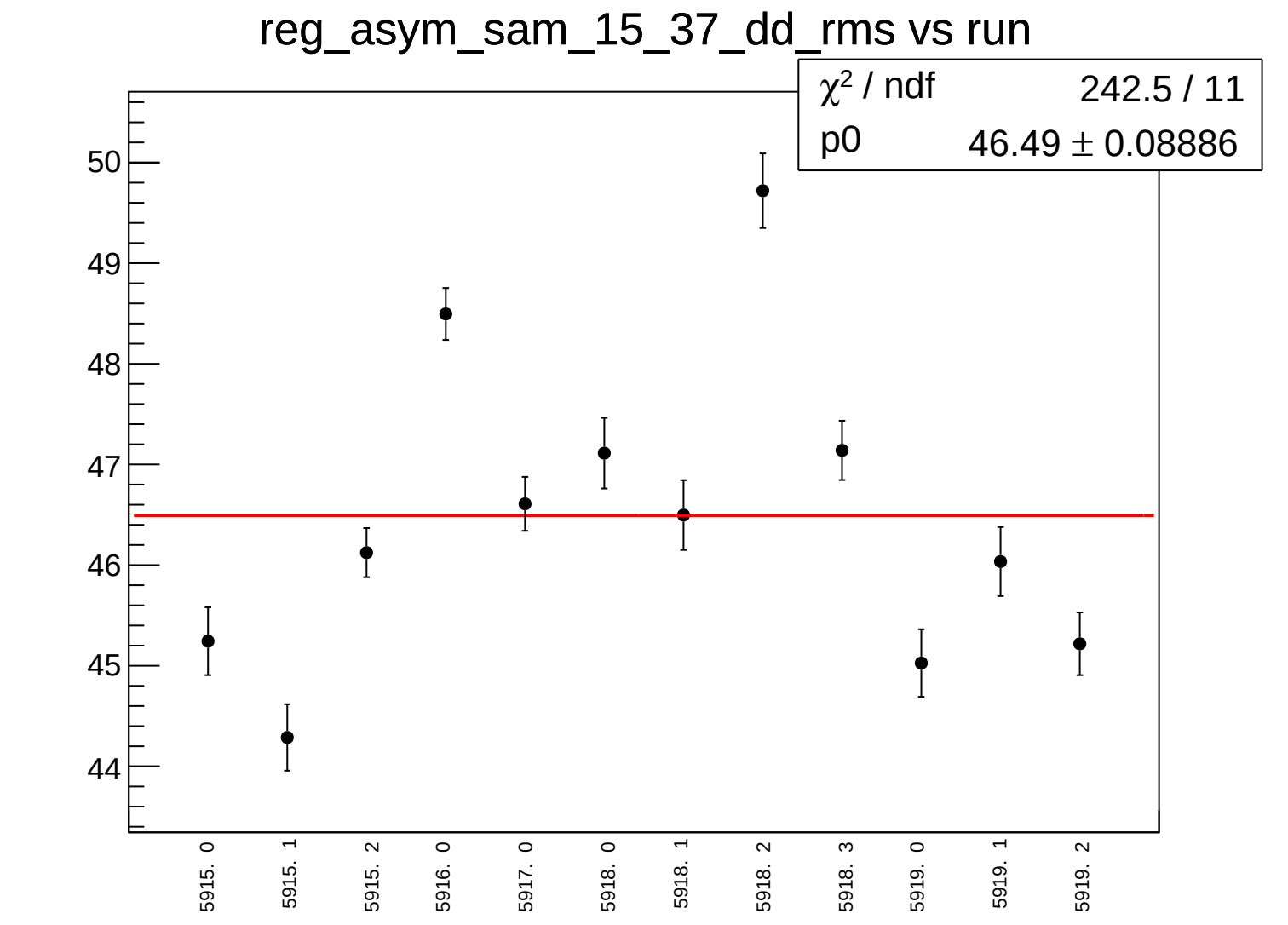

asym_sam_13_57_dd_mean vs run
χ² / ndf 12.05 / 11
p0 517.8 ± 1956
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 29.16
Std Dev 22.68
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

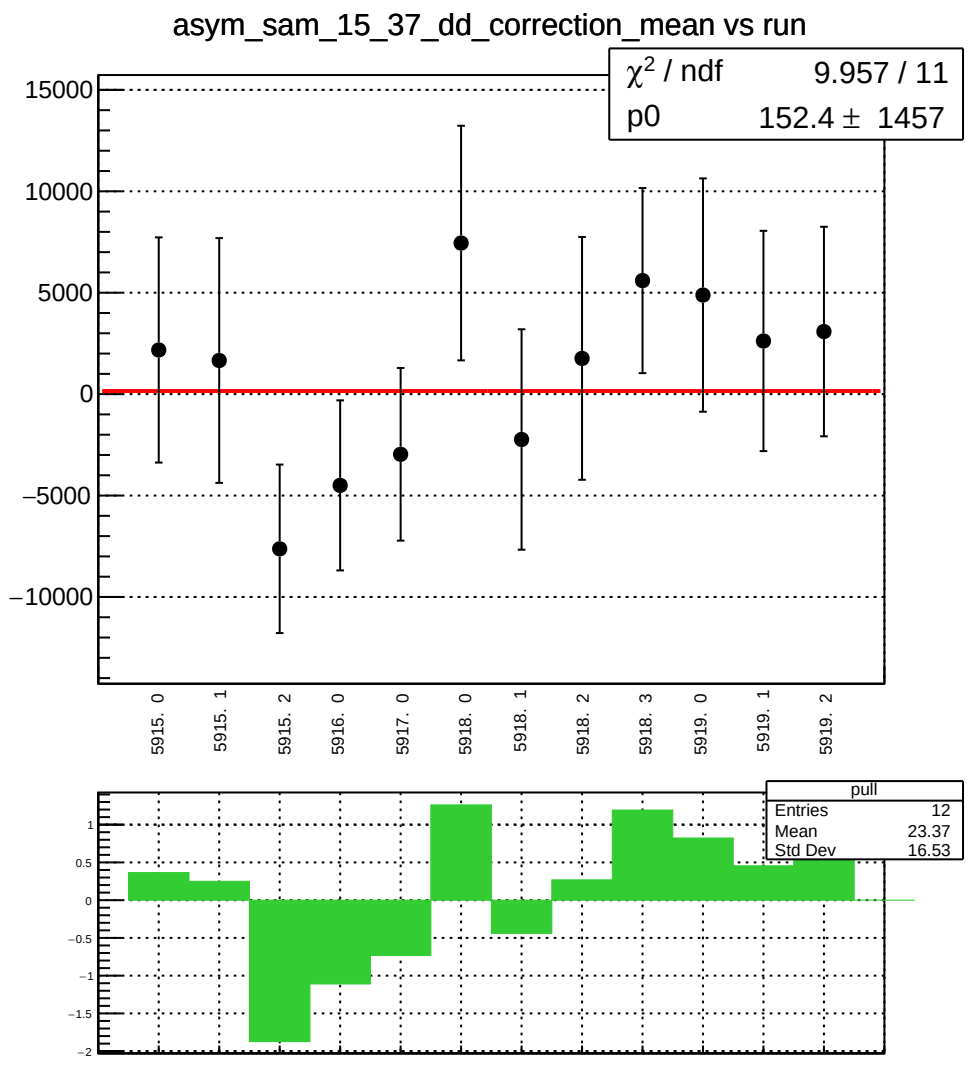

pull1D
Entries 12
Mean 0.07203
Std Dev 0.9996
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

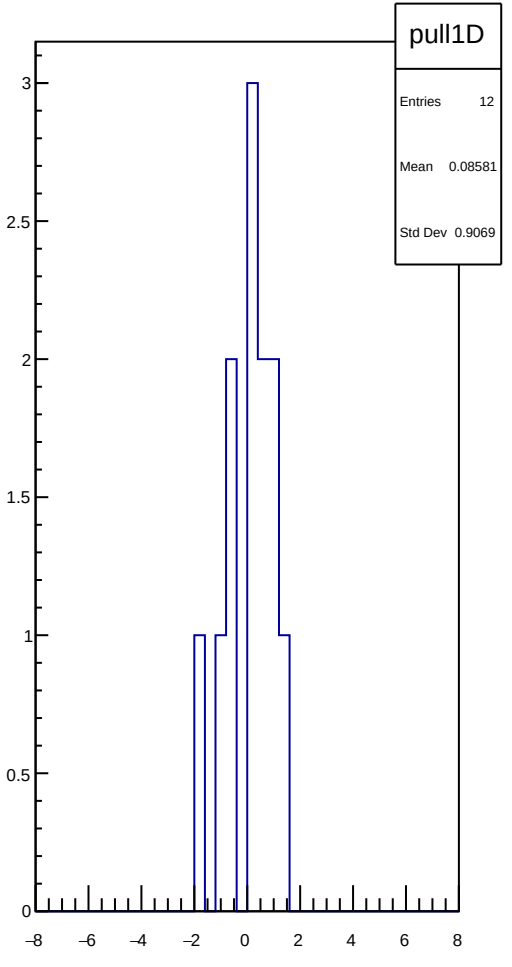

asym_sam_13_57_dd_rms vs run
χ² / ndf 410.4 / 11
p0 723.5 ± 1.383
760
740
720
700
680
660
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

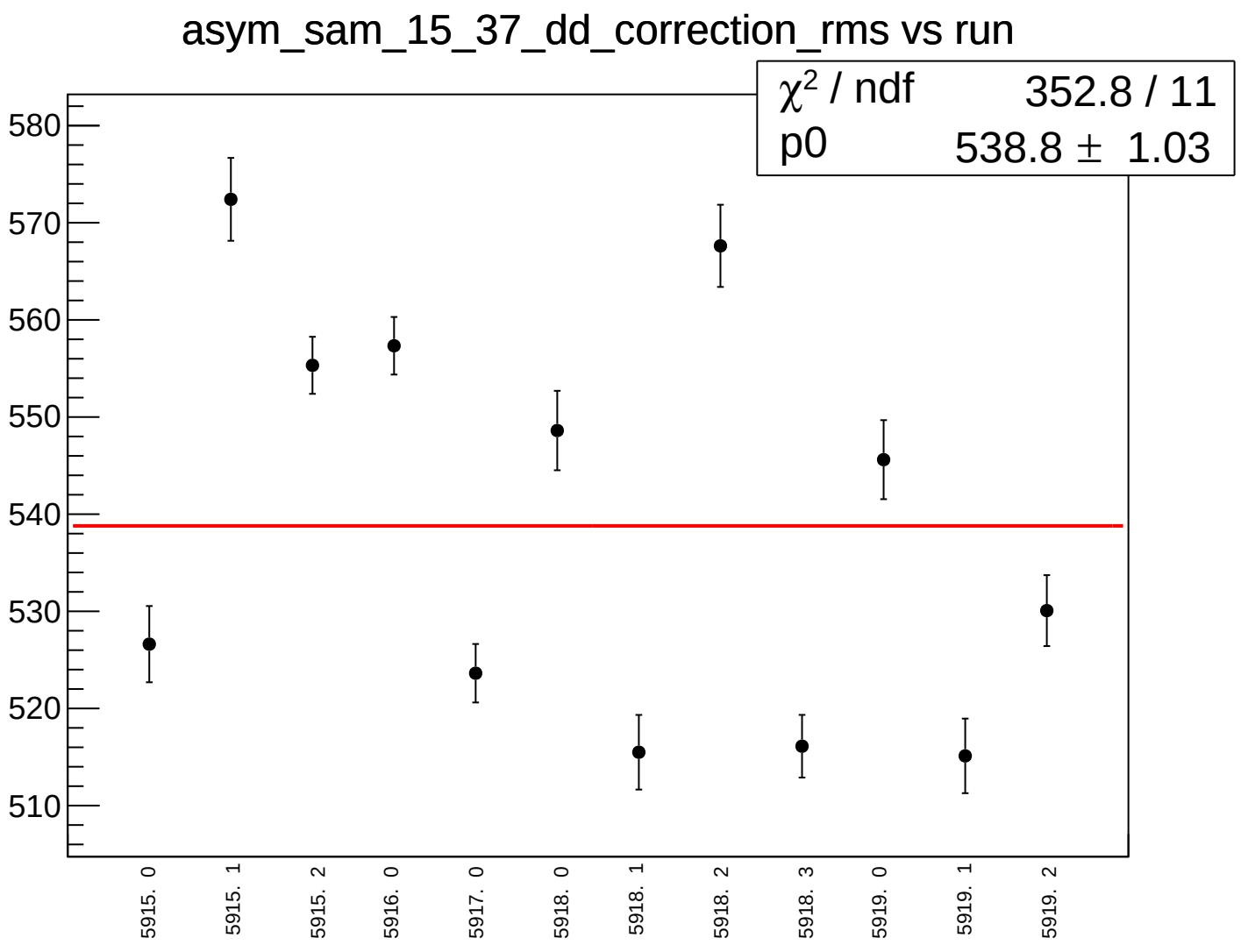

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 4.112 / 11
p0 116.9 ± 125.7
1000
500
0
−500
−1000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −63.5
Std Dev 70.22
1
0.5
0
−0.5
−1

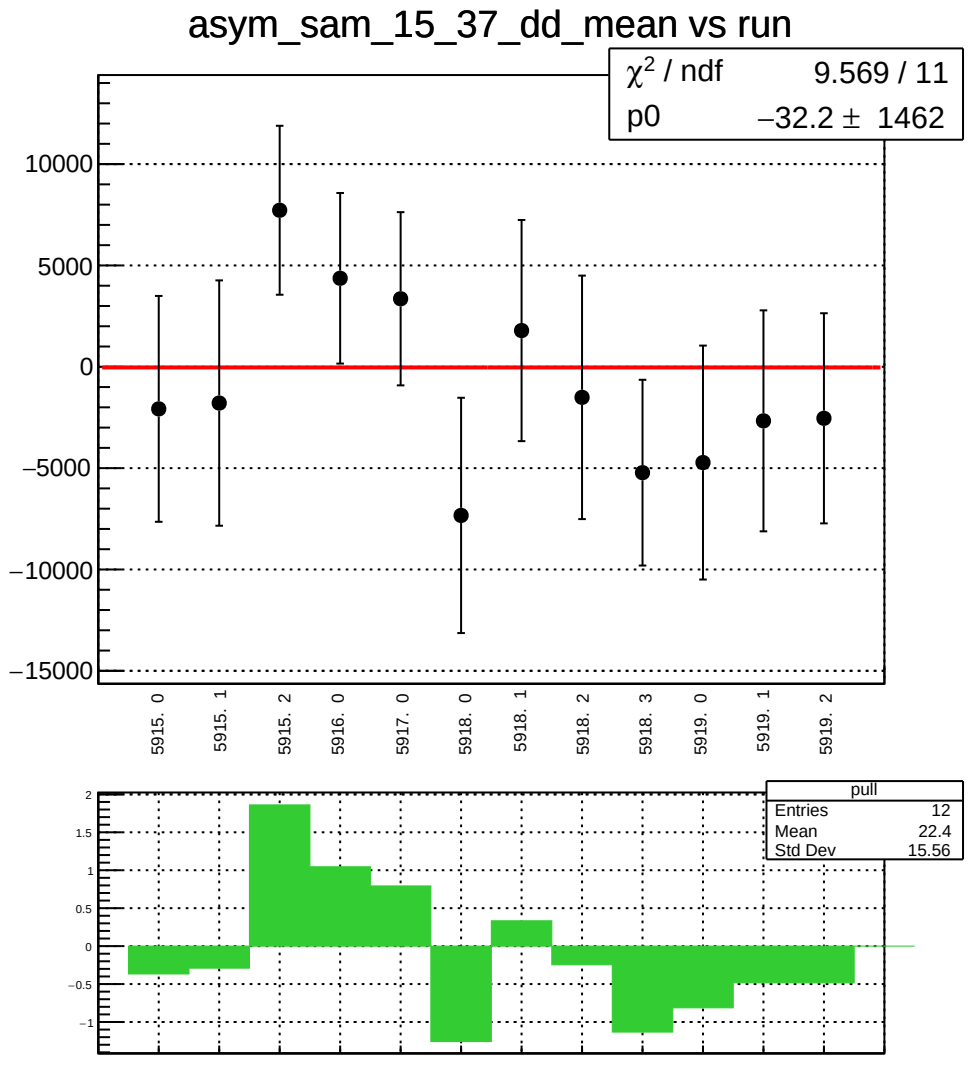

pull1D
Entries 12
Mean −0.01065
Std Dev 0.5853
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

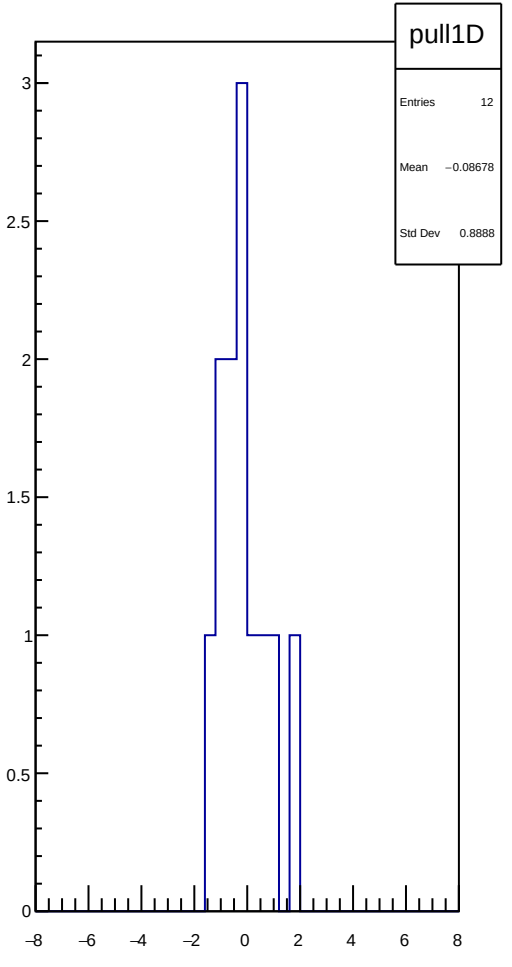

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 242.5 / 11
p0 46.49 ± 0.08886
50
49
48
47
46
45
44
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

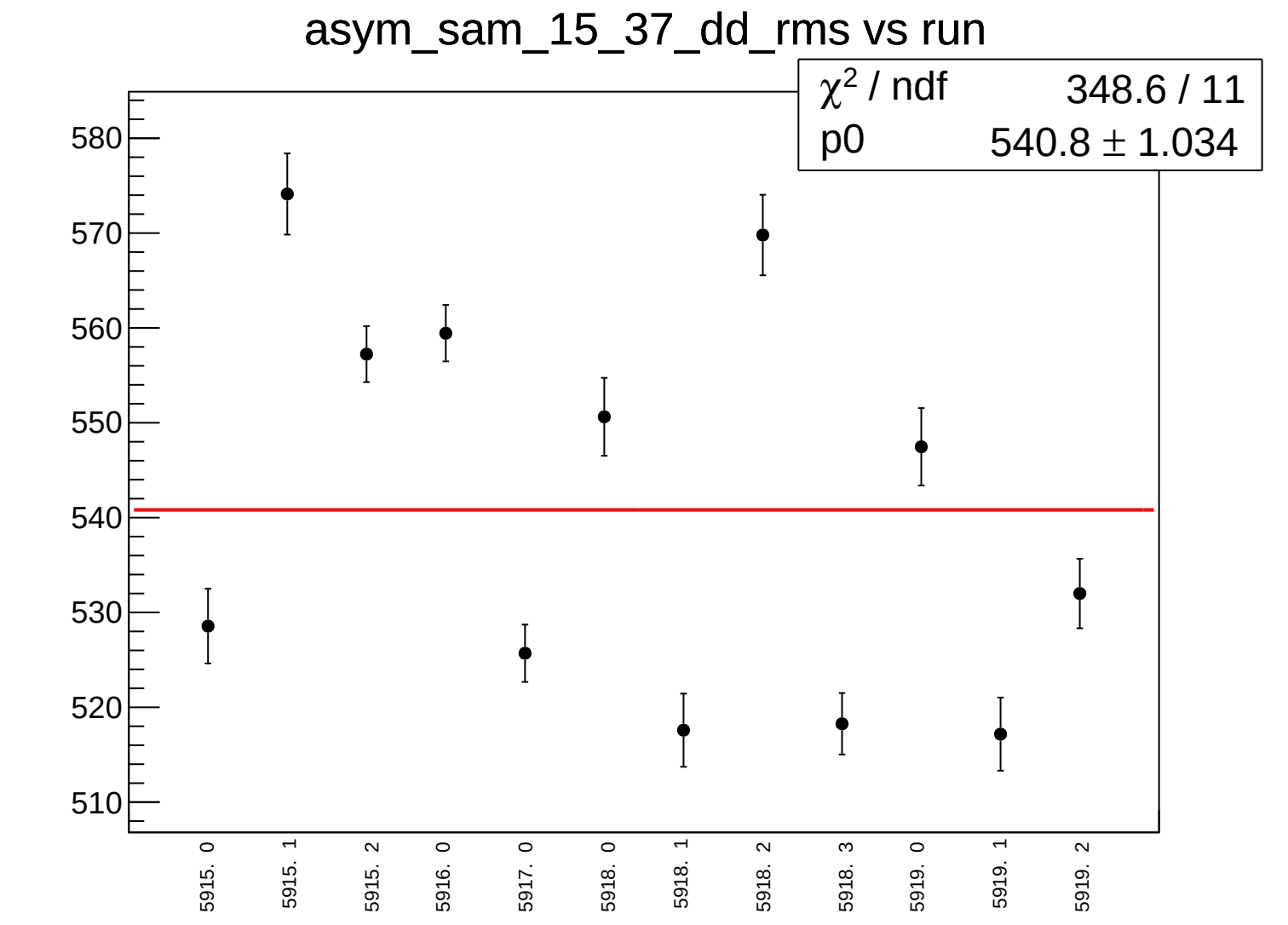

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 9.957 / 11
p0 152.4 ± 1457
15000
10000
5000
0
−5000
−10000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 23.37
Std Dev 16.53
1
0.5
0
−0.5
−1
−1.5
−2

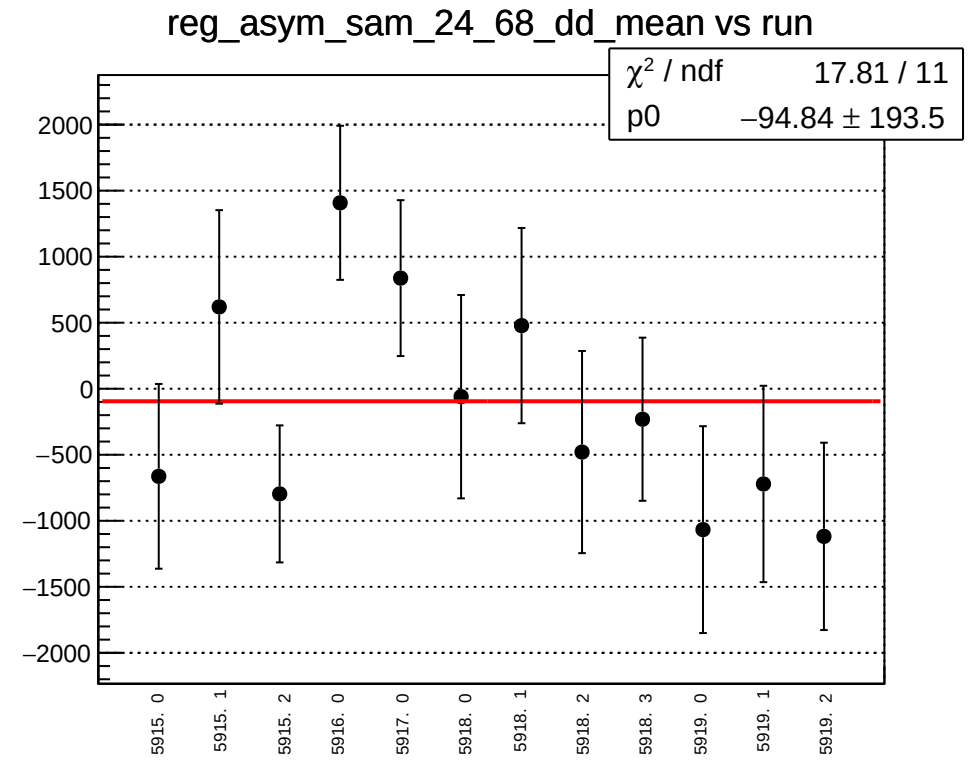

pull1D
Entries 12
Mean 0.08581
Std Dev 0.9069
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

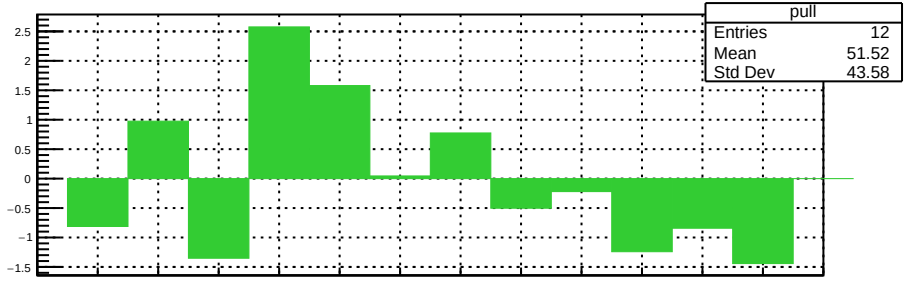

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 352.8 / 11
p0 538.8 ± 1.03
580
570
560
550
540
530
520
510
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

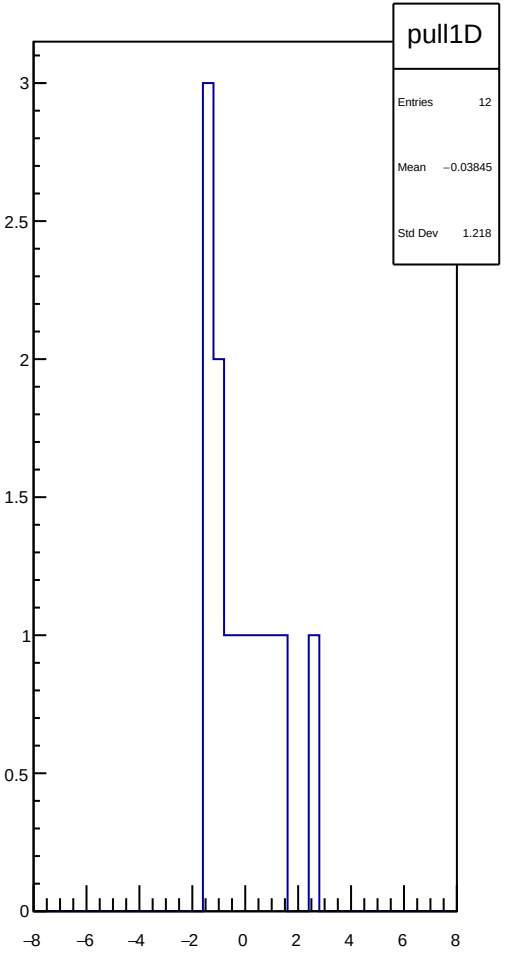

asym_sam_15_37_dd_mean vs run
χ² / ndf 9.569 / 11
p0 −32.2 ± 1462
10000
5000
0
−5000
−10000
−15000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.4
Std Dev 15.56
2
1.5
1
0.5
0
−0.5
−1

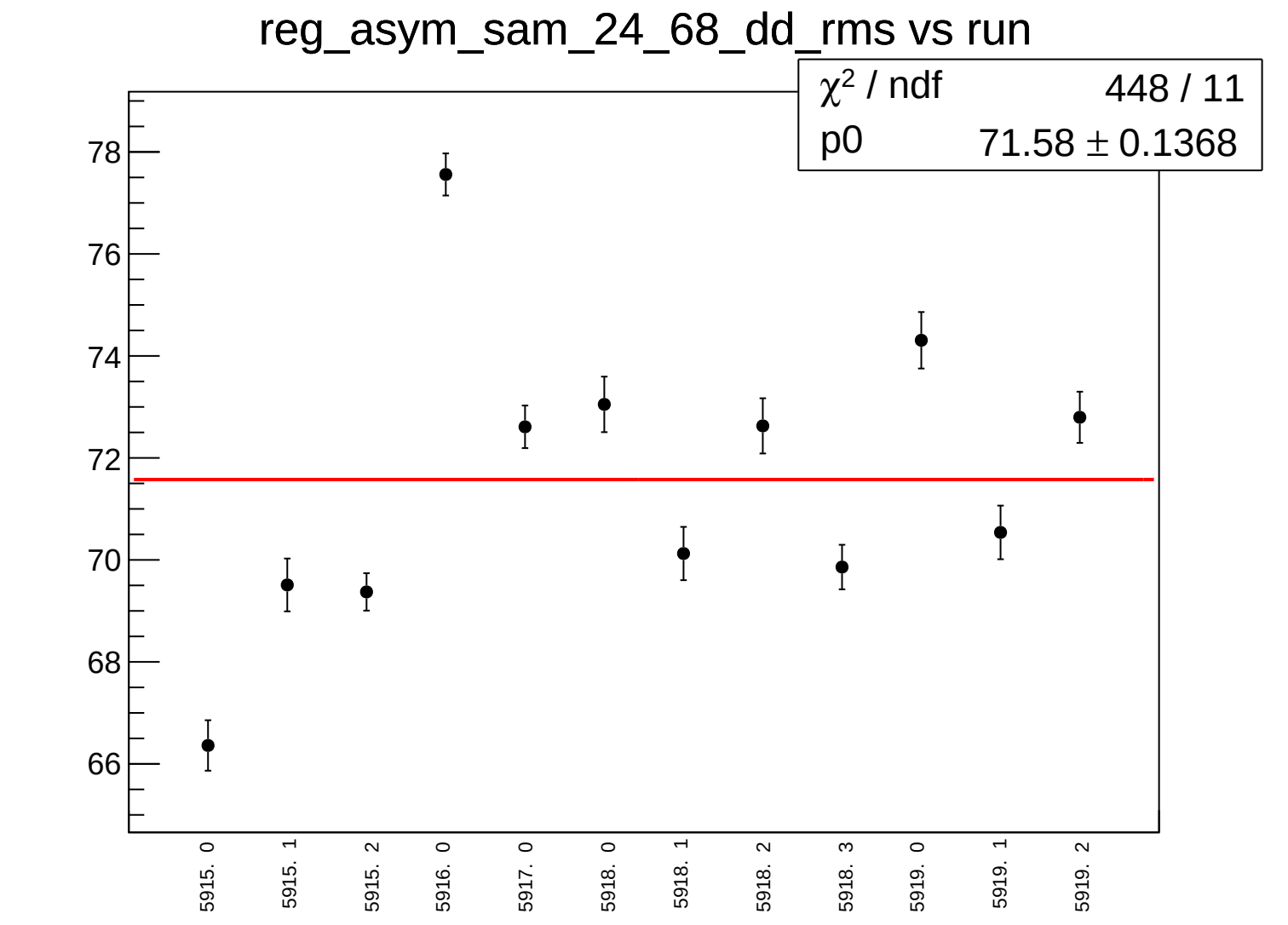

pull1D
Entries 12
Mean −0.08678
Std Dev 0.8888
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

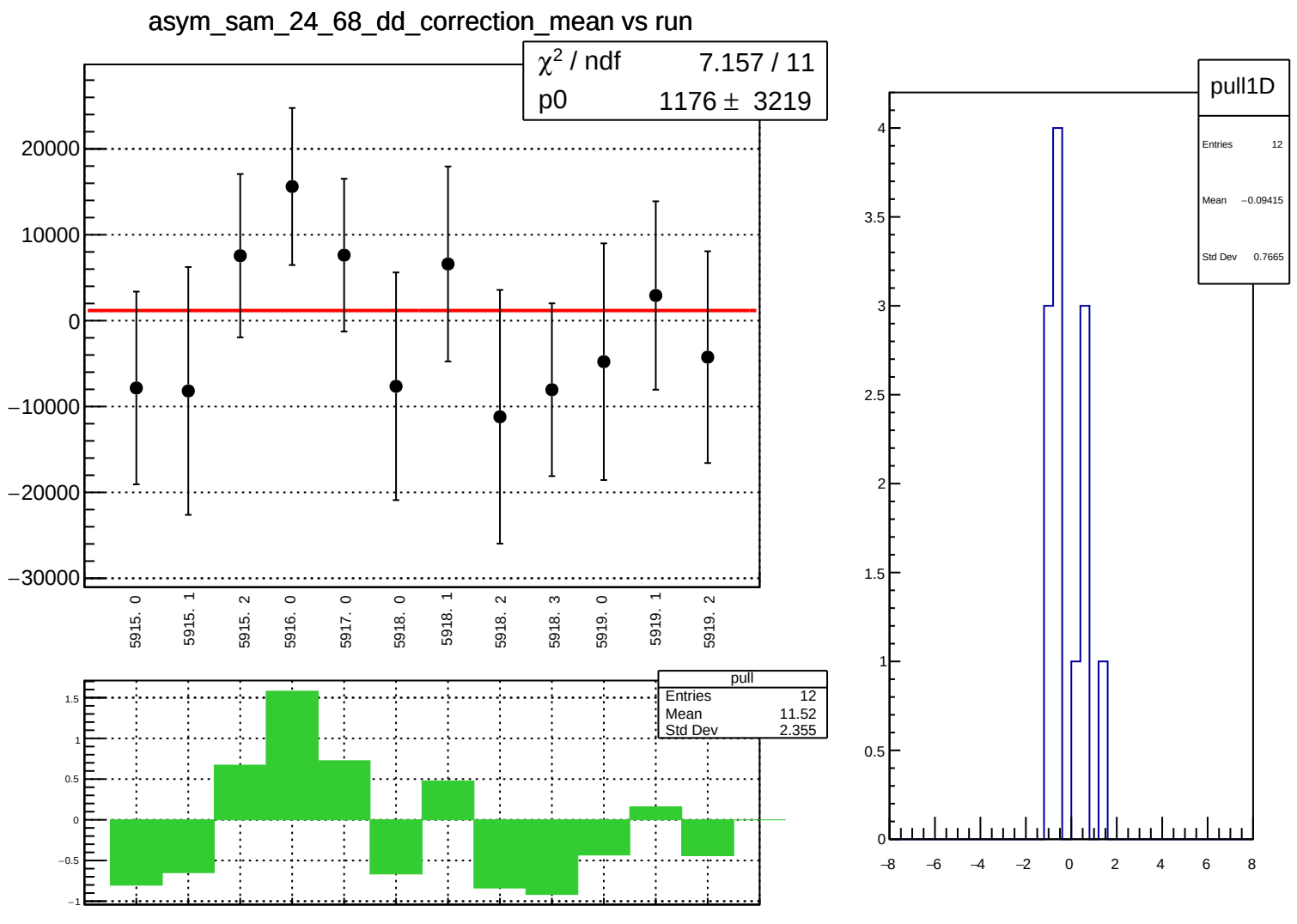

asym_sam_15_37_dd_rms vs run
χ² / ndf 348.6 / 11
p0 540.8 ± 1.034
580
570
560
550
540
530
520
510
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

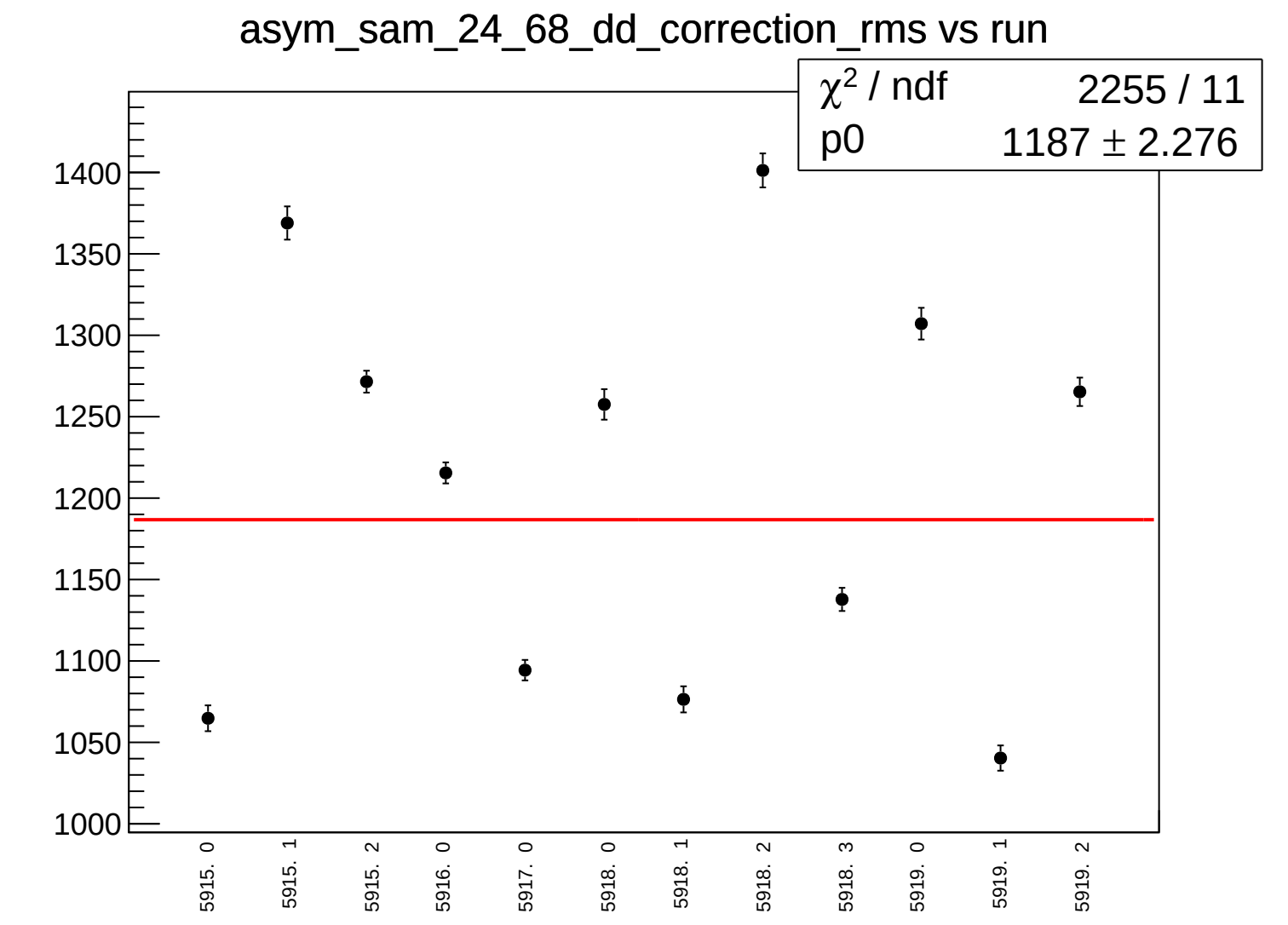

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 17.81 / 11
p0 −94.84 ± 193.5
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

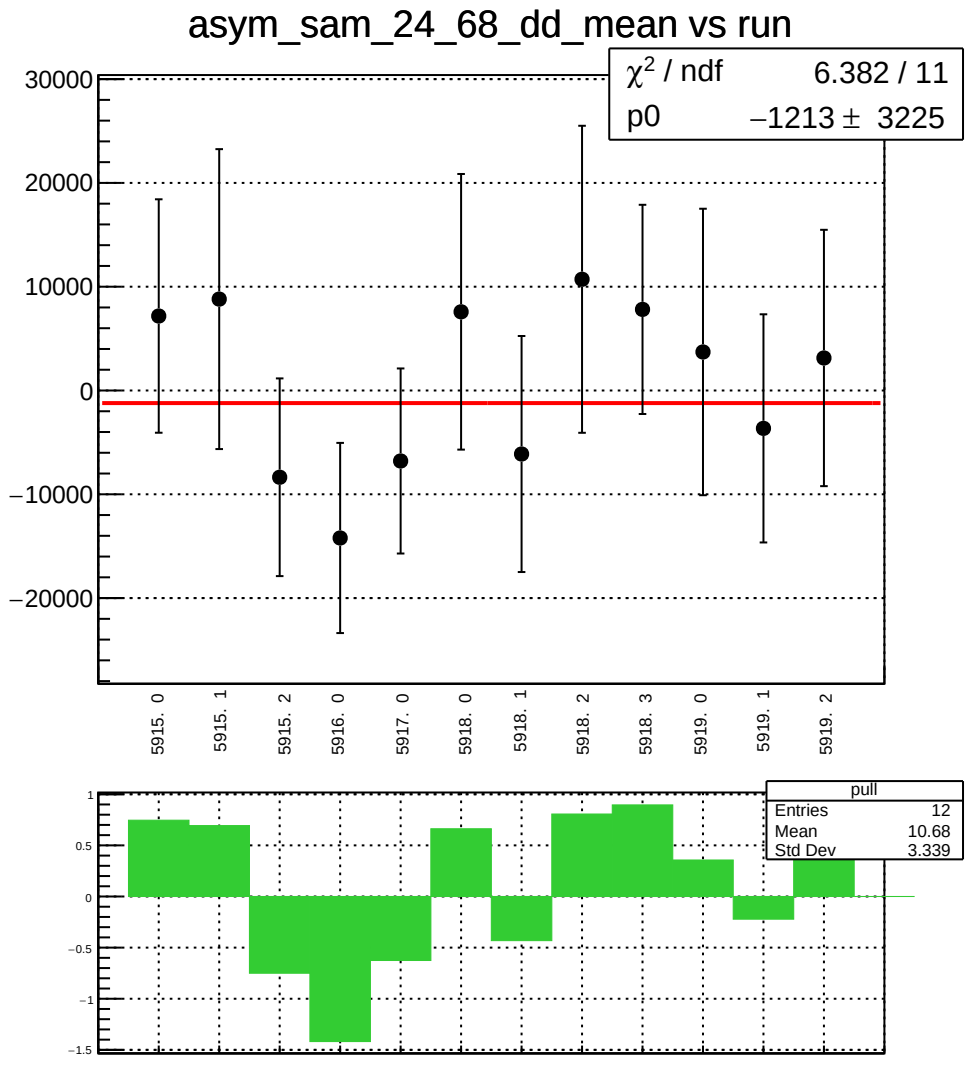

pull
Entries 12
Mean 51.52
Std Dev 43.58
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

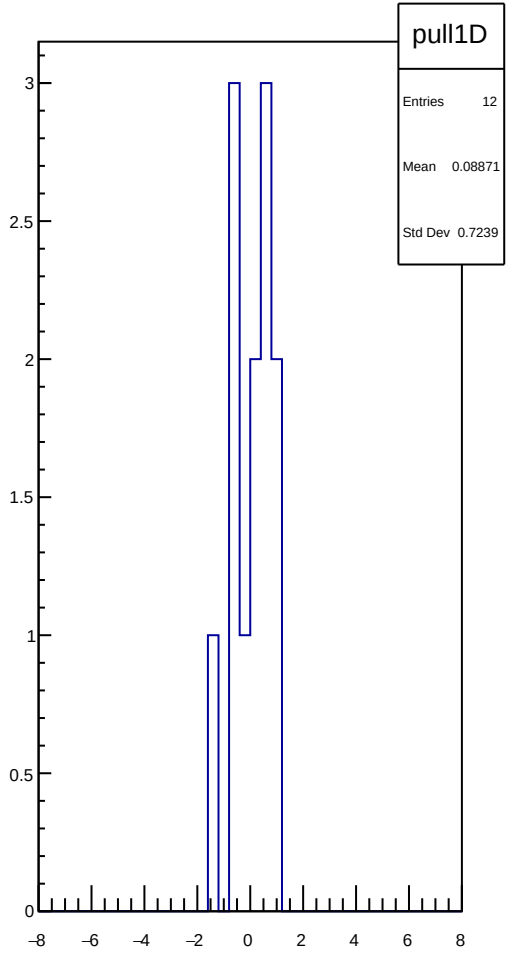

pull1D
Entries 12
Mean −0.03845
Std Dev 1.218
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

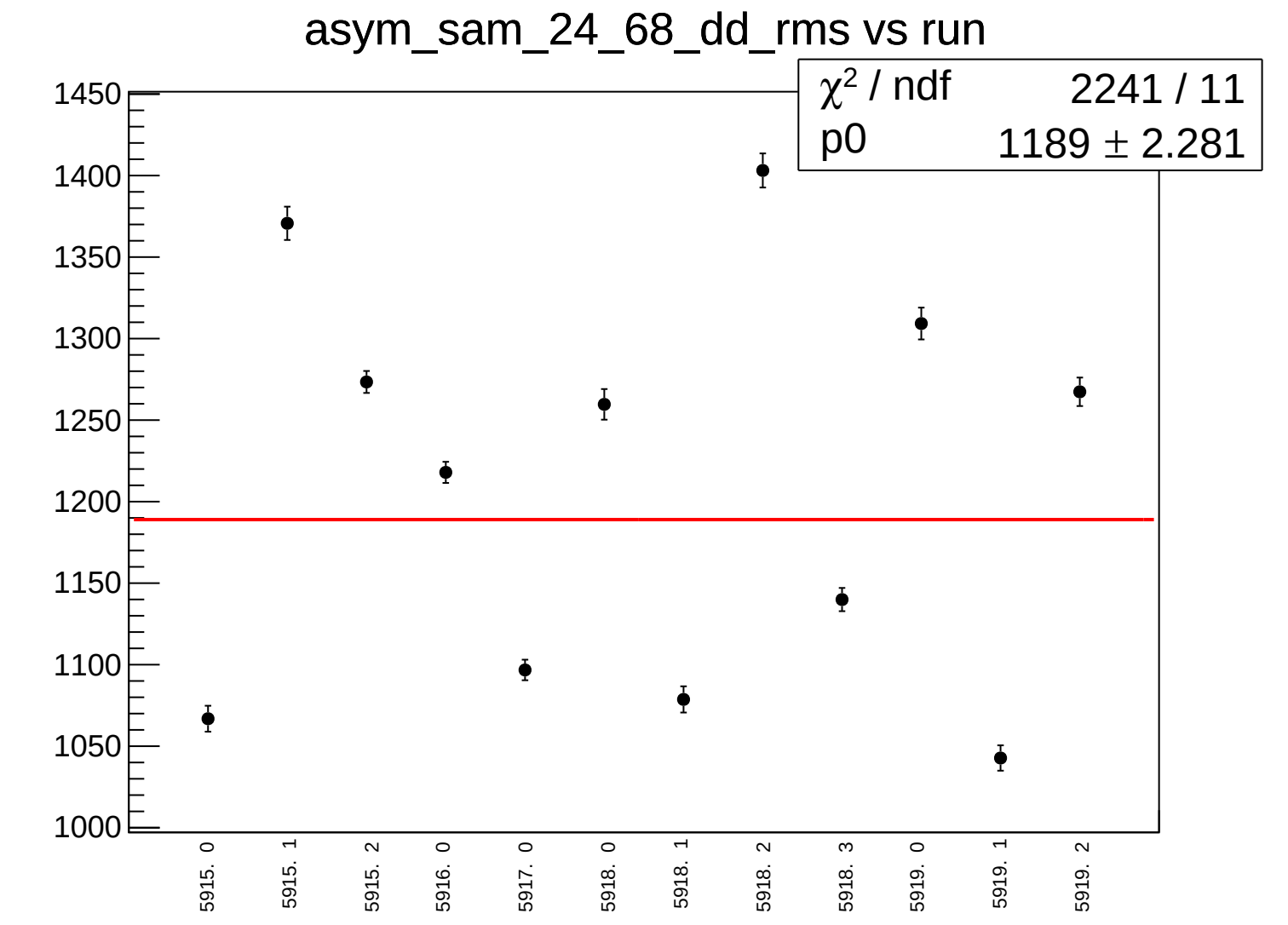

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 448 / 11
p0 71.58 ± 0.1368
78
76
74
72
70
68
66
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

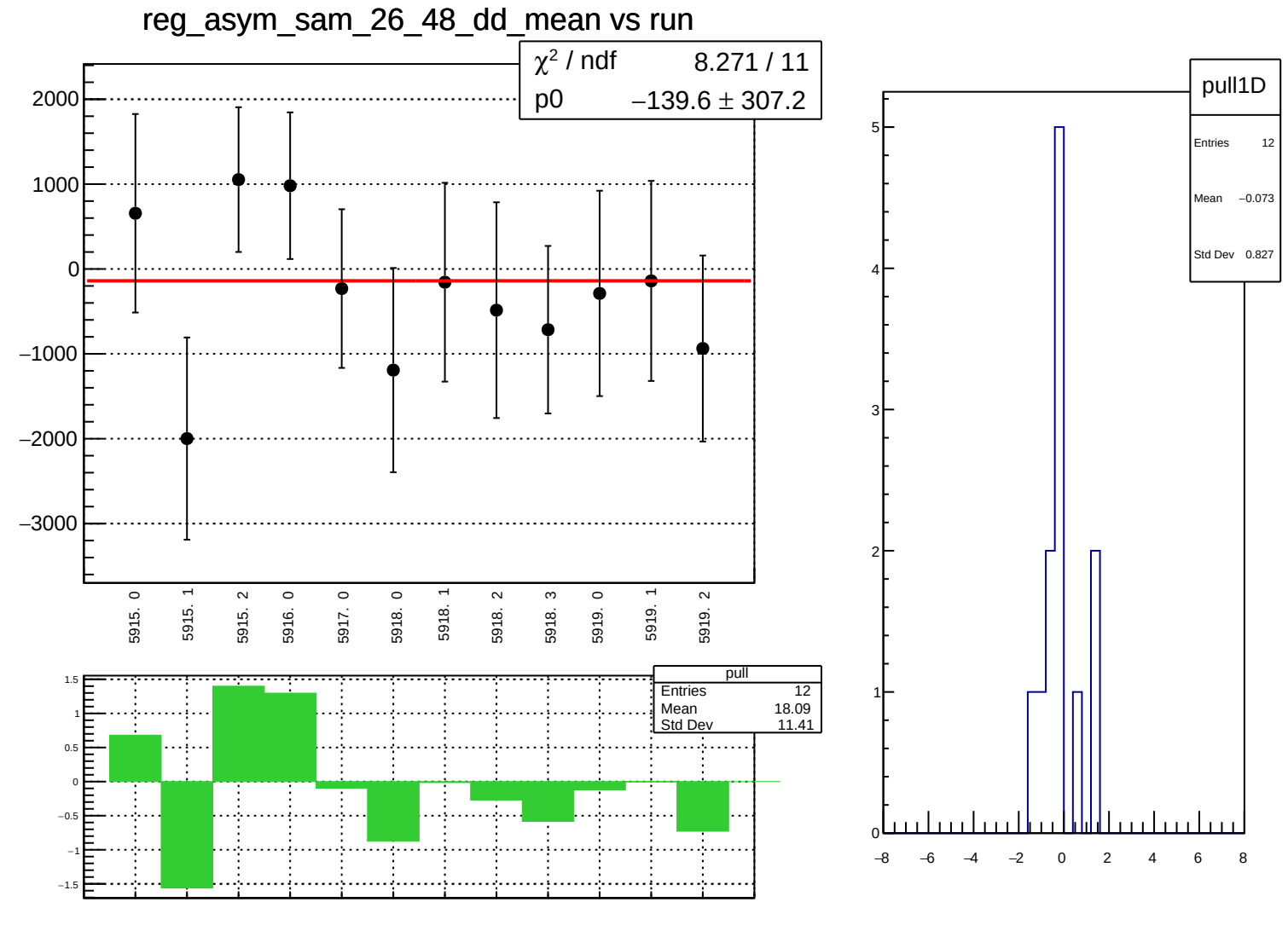

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 7.157 / 11
p0 1176 ± 3219
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.52
Std Dev 2.355
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.09415
Std Dev 0.7665
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

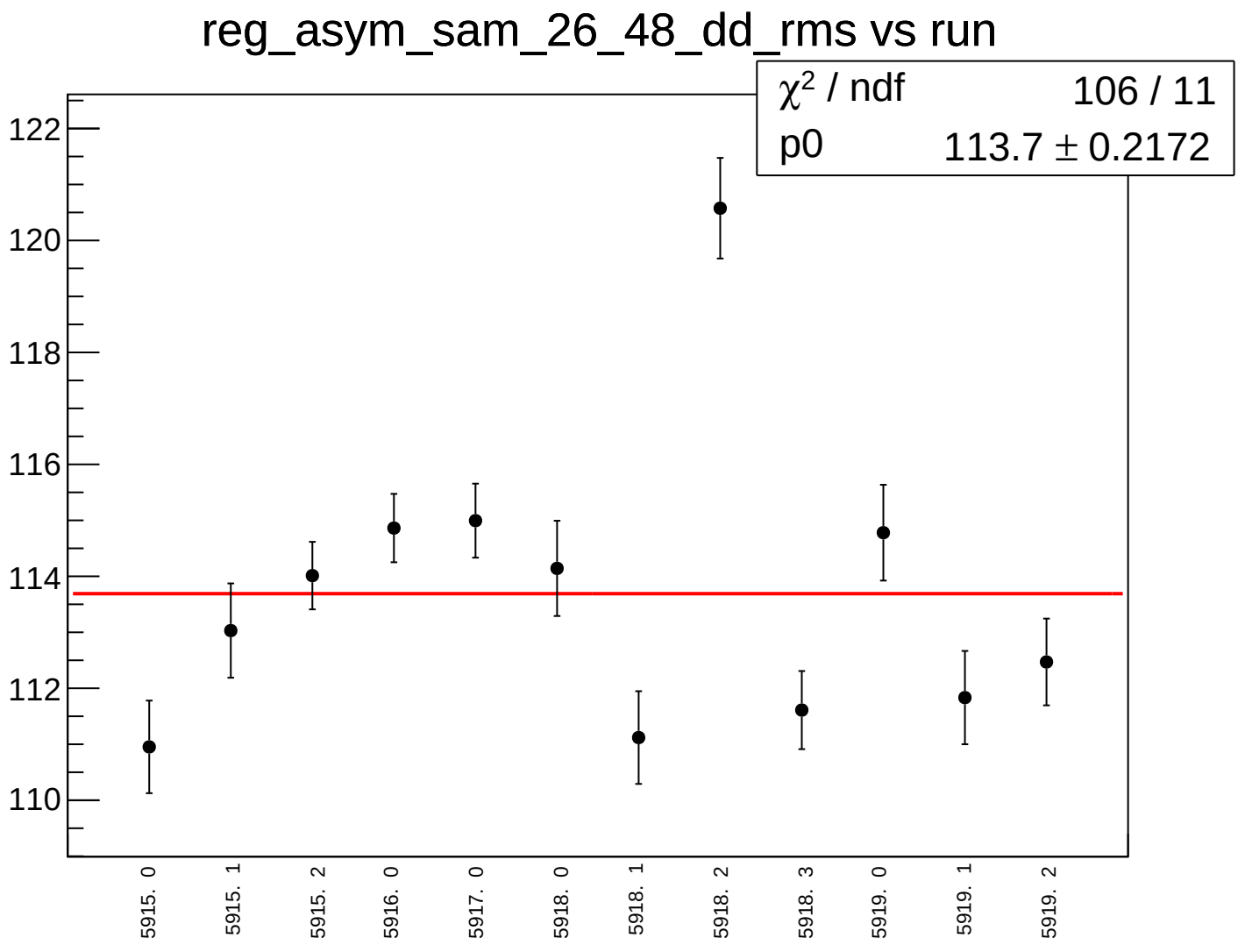

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2255 / 11
p0 1187 ± 2.276
1400
1350
1300
1250
1200
1150
1100
1050
1000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

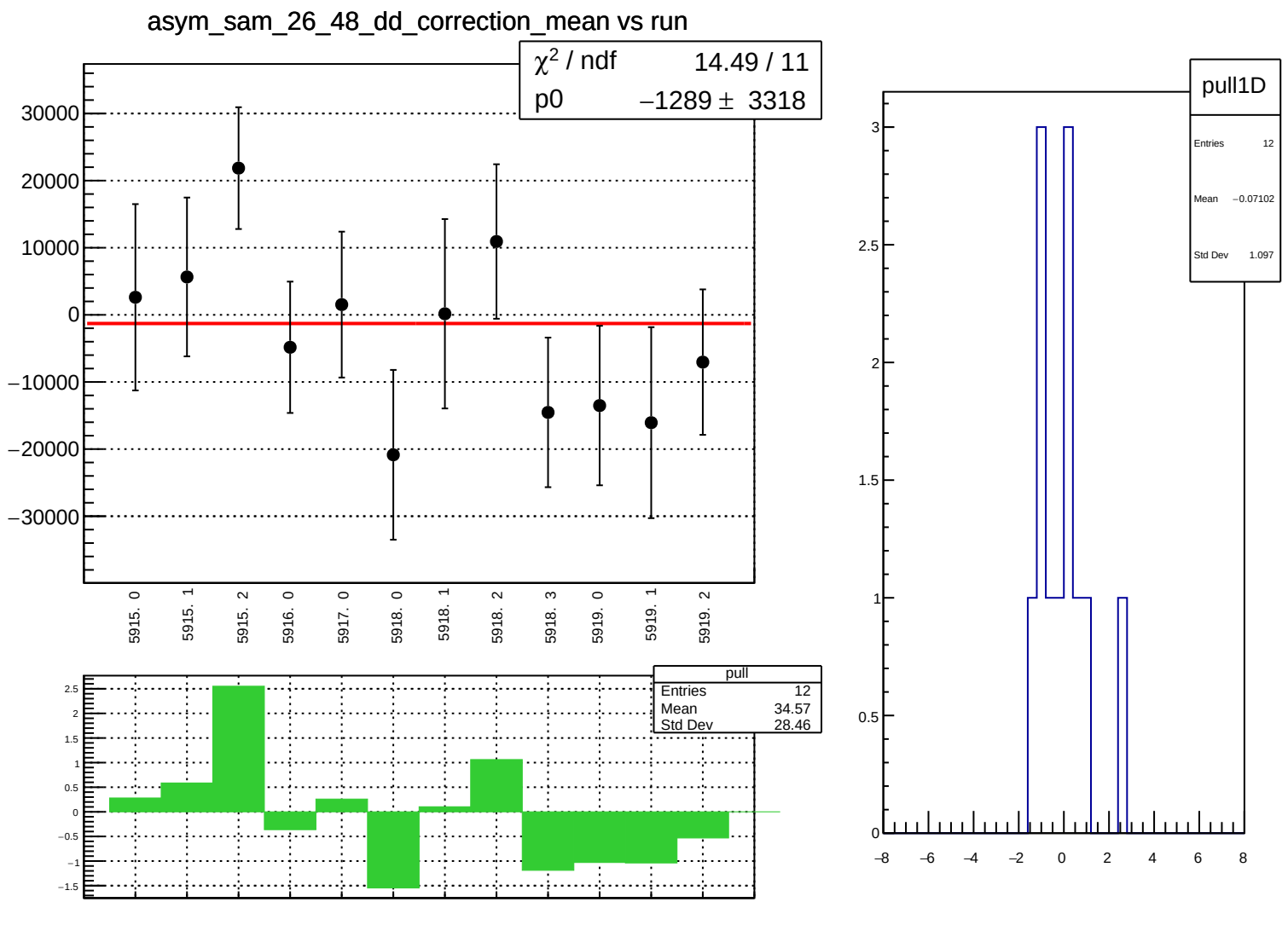

asym_sam_24_68_dd_mean vs run
χ² / ndf 6.382 / 11
p0 −1213 ± 3225
30000
20000
10000
0
−10000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 10.68
Std Dev 3.339
1
0.5
0
−0.5
−1
−1.5

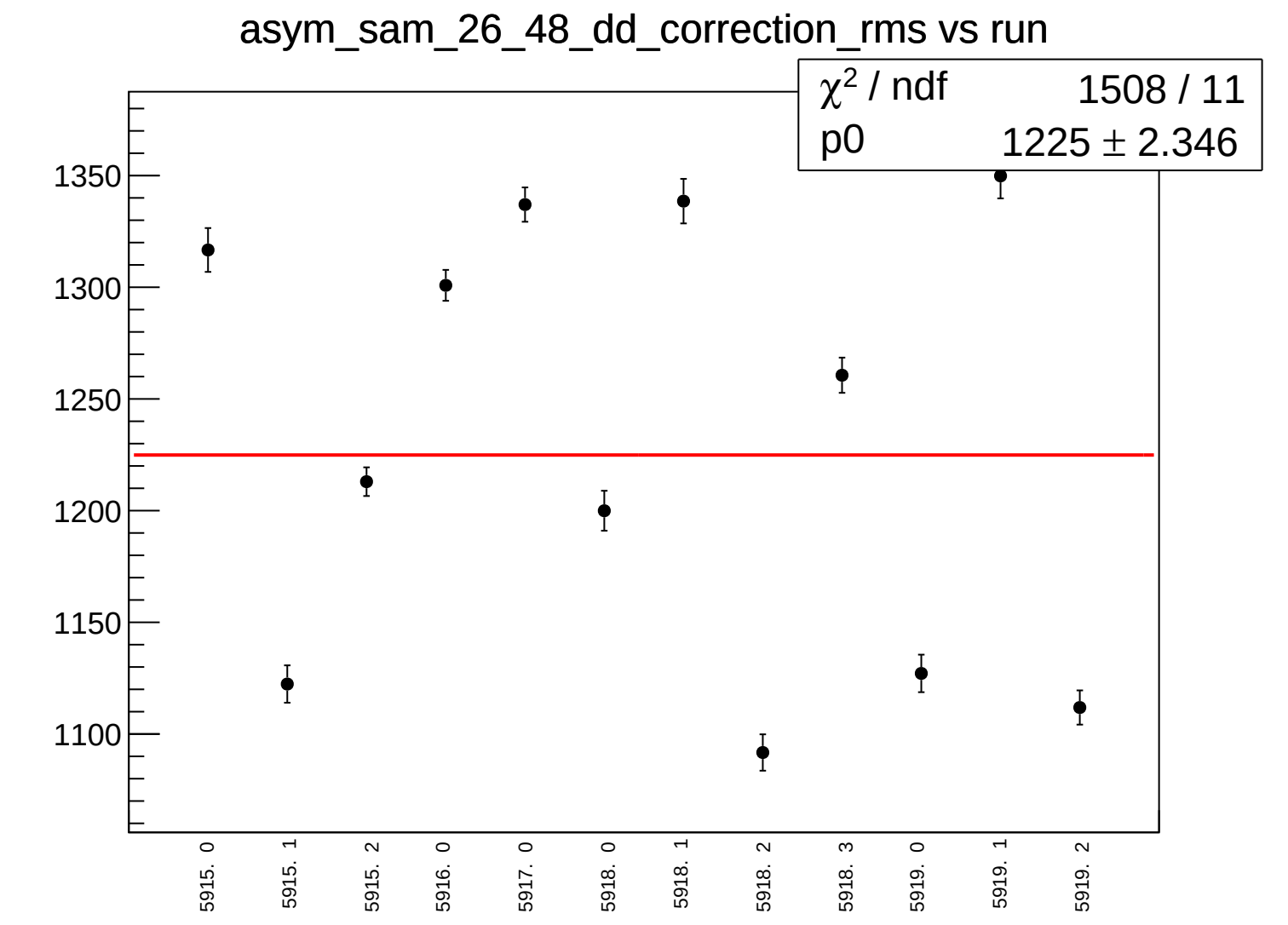

pull1D
Entries 12
Mean 0.08871
Std Dev 0.7239
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

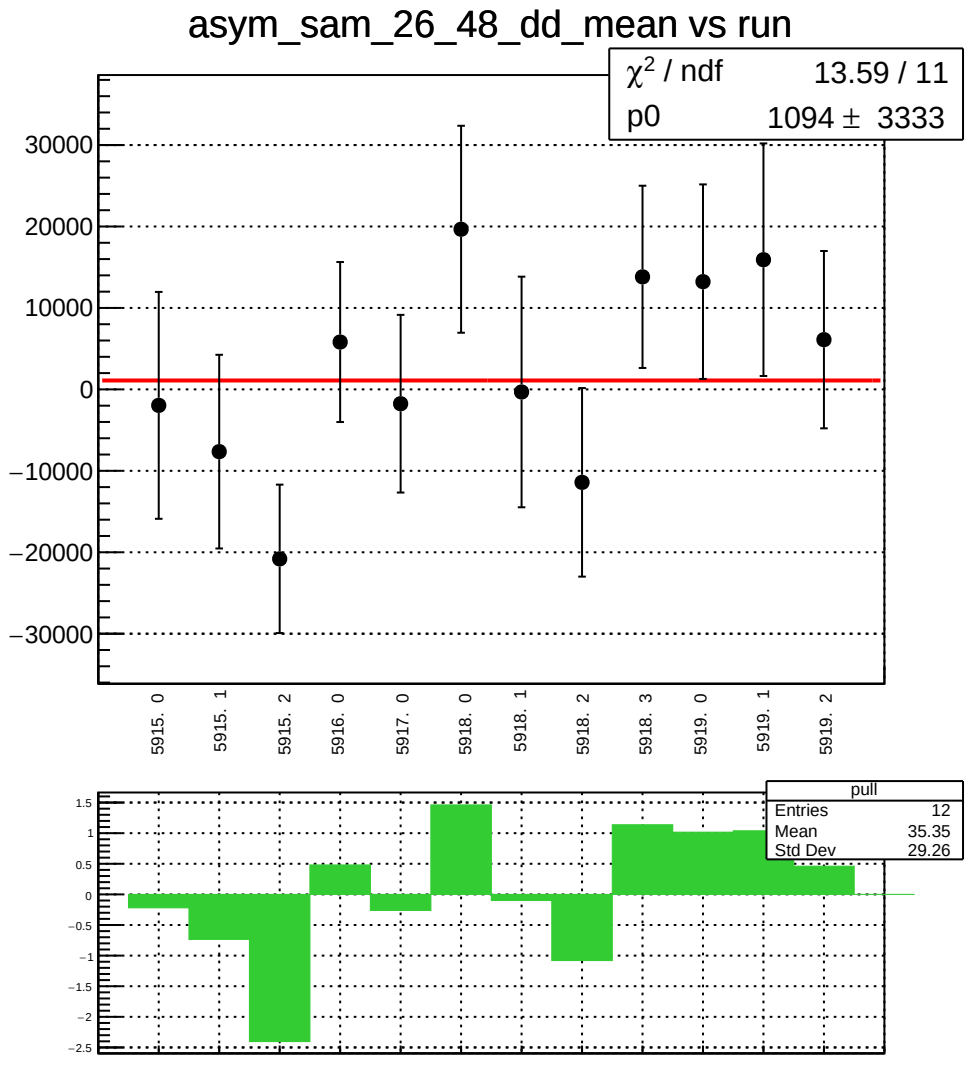

asym_sam_24_68_dd_rms vs run
χ² / ndf 2241 / 11
p0 1189 ± 2.281
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

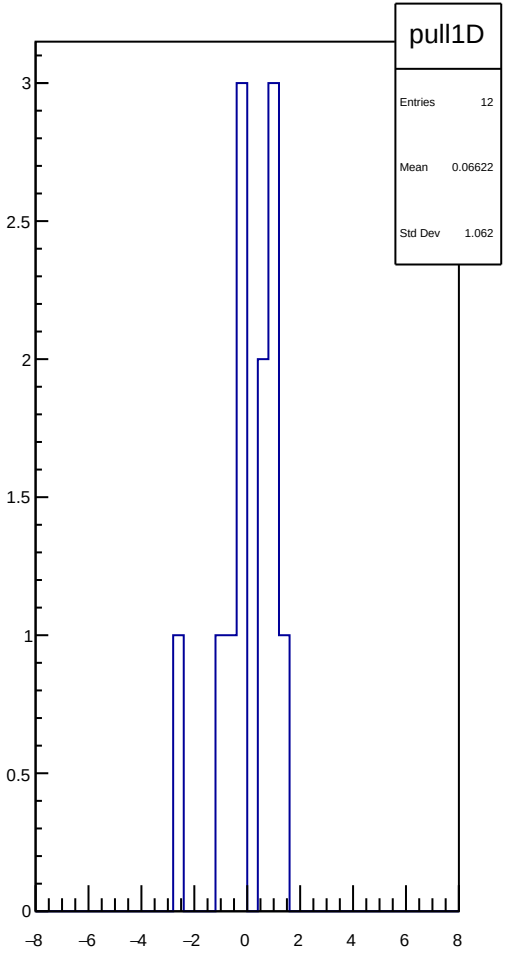

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 8.271 / 11
p0 −139.6 ± 307.2
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 18.09
Std Dev 11.41
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.073
Std Dev 0.827
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

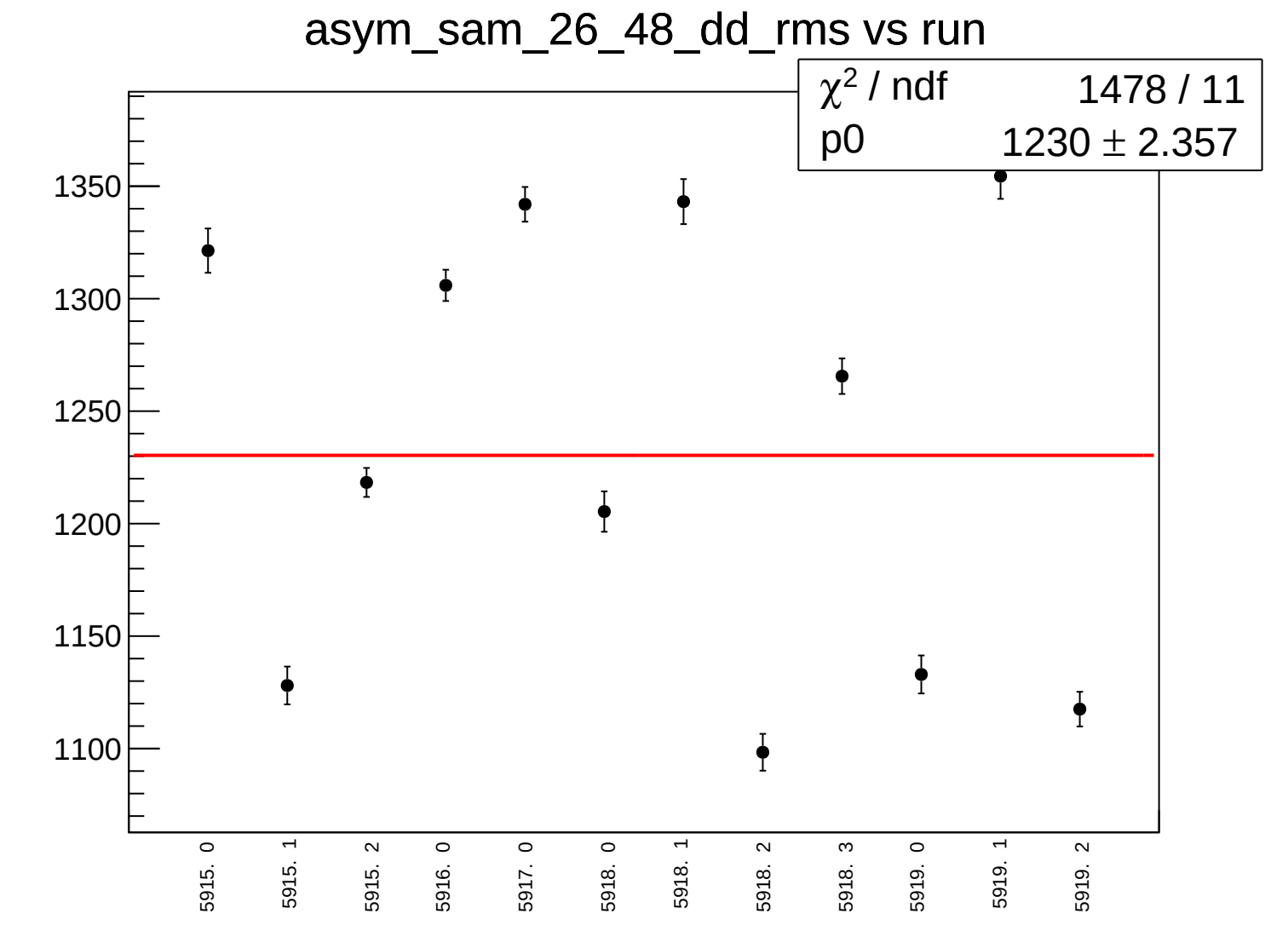

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 106 / 11
p0 113.7 ± 0.2172
122
120
118
116
114
112
110
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

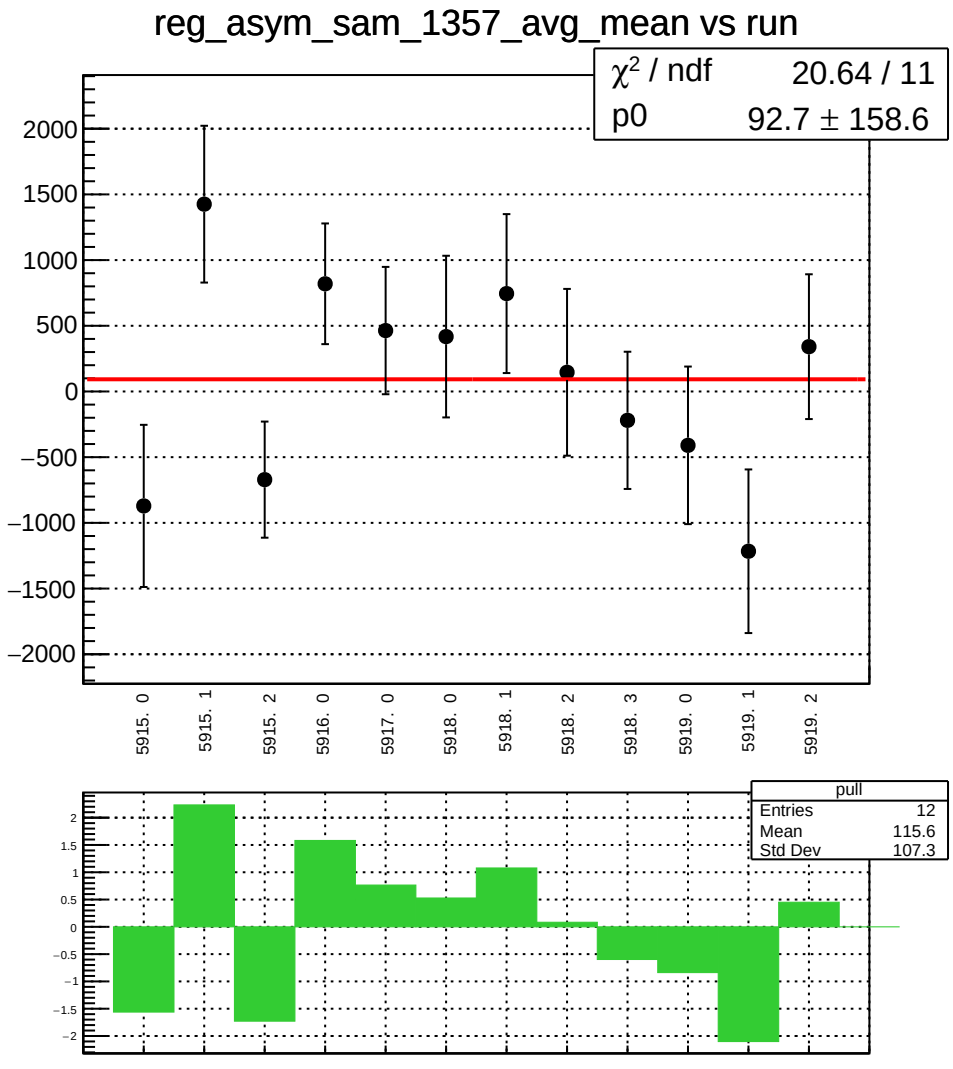

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 14.49 / 11
p0 −1289 ± 3318
30000
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 34.57
Std Dev 28.46
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.07102
Std Dev 1.097
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

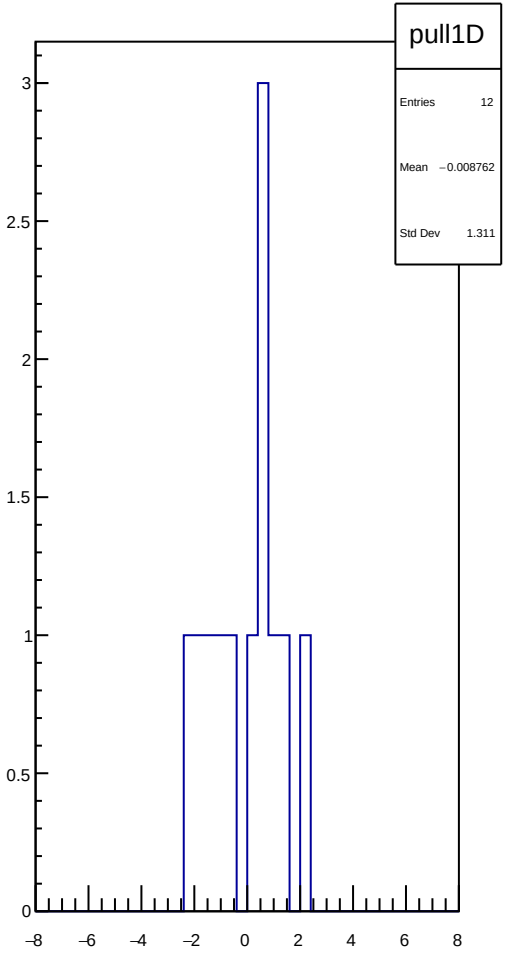

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1508 / 11
p0 1225 ± 2.346
1350
1300
1250
1200
1150
1100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

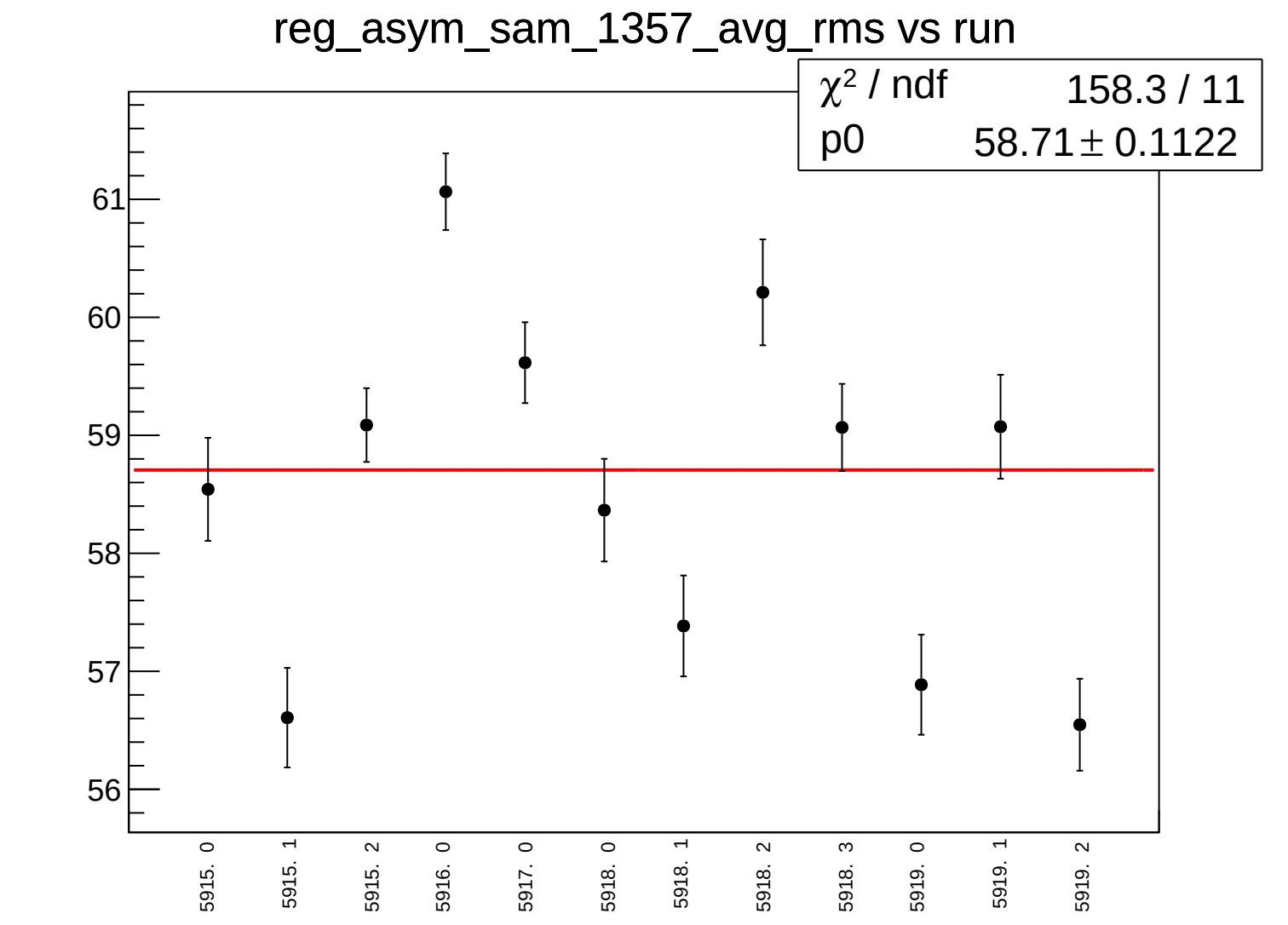

asym_sam_26_48_dd_mean vs run
χ² / ndf 13.59 / 11
p0 1094 ± 3333
30000
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 35.35
Std Dev 29.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

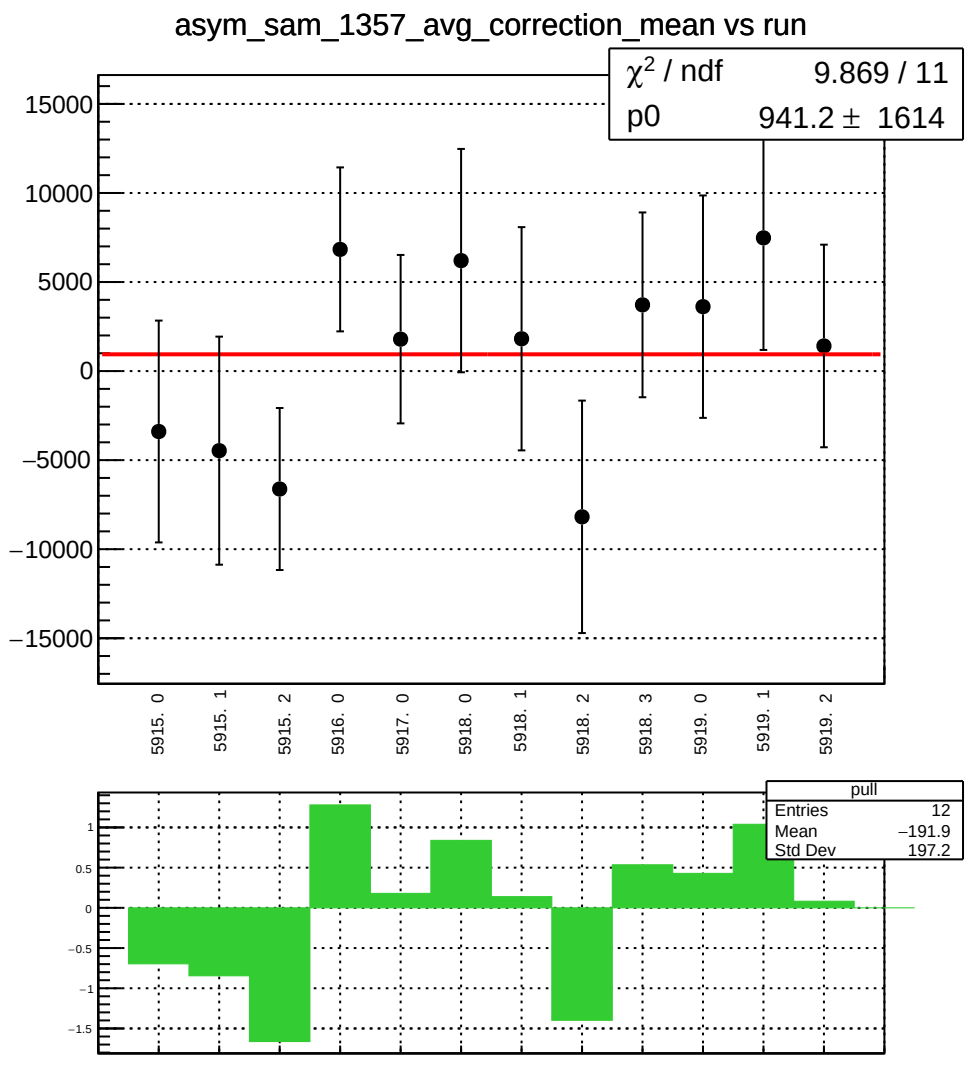

pull1D
Entries 12
Mean 0.06622
Std Dev 1.062
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

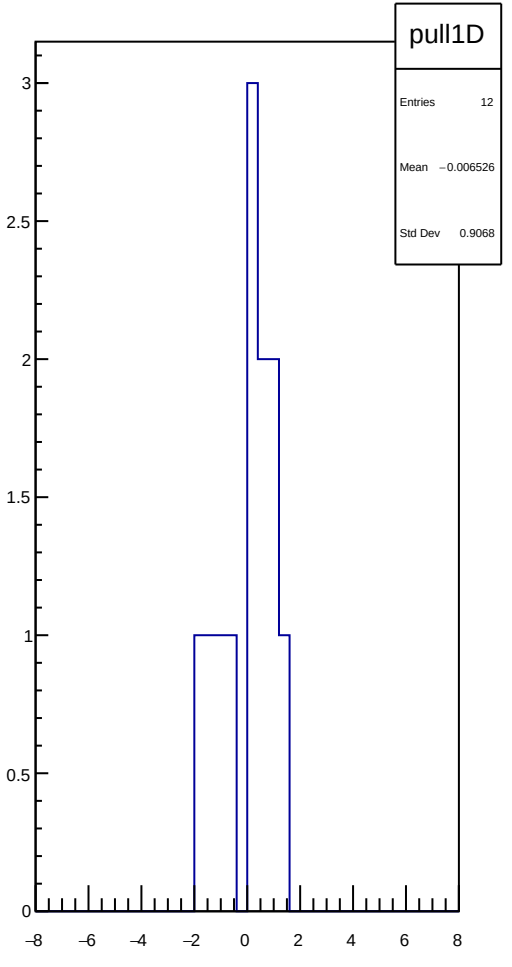

asym_sam_26_48_dd_rms vs run
χ² / ndf 1478 / 11
p0 1230 ± 2.357
1350
1300
1250
1200
1150
1100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

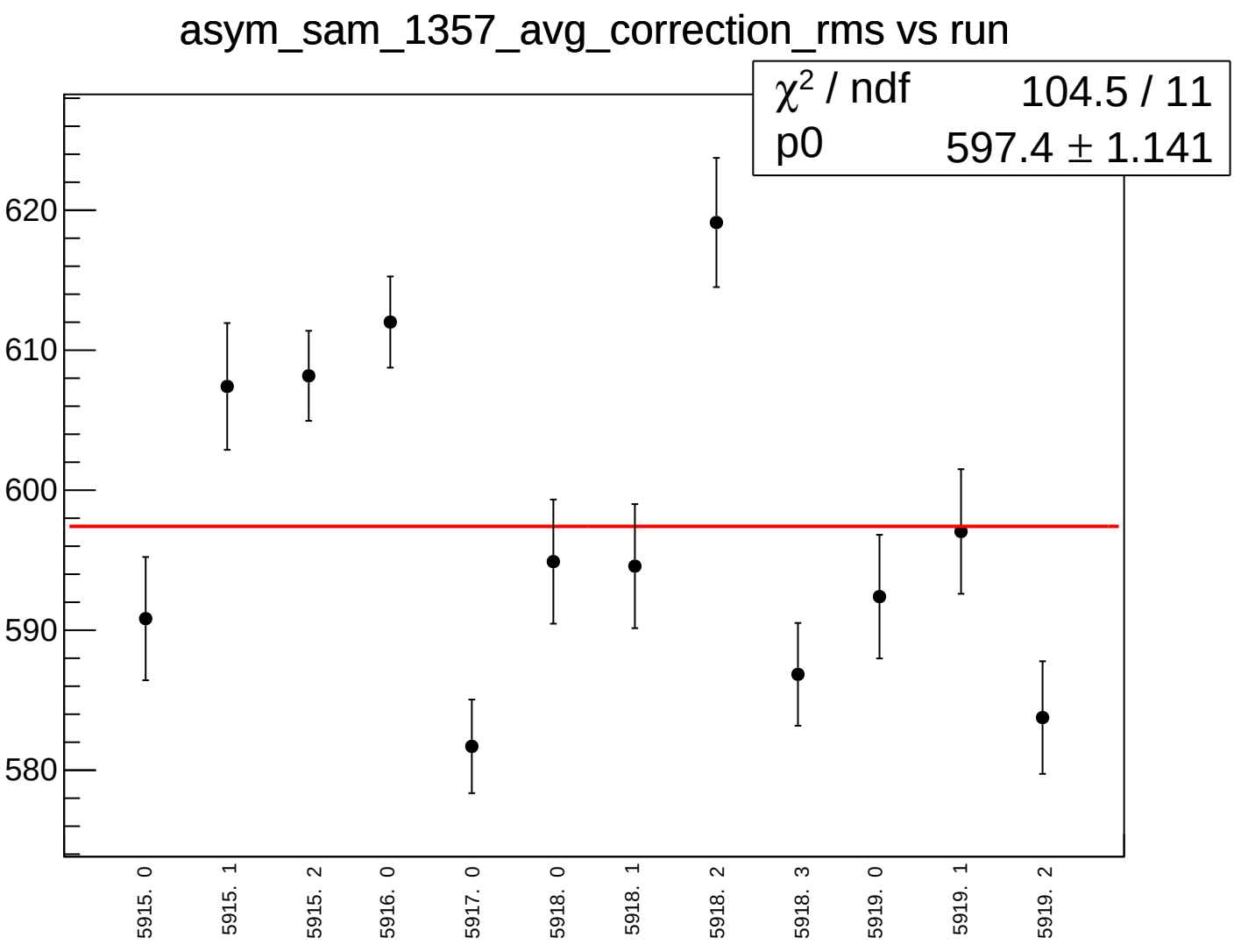

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 20.64 / 11
p0 92.7 ± 158.6
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 115.6
Std Dev 107.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

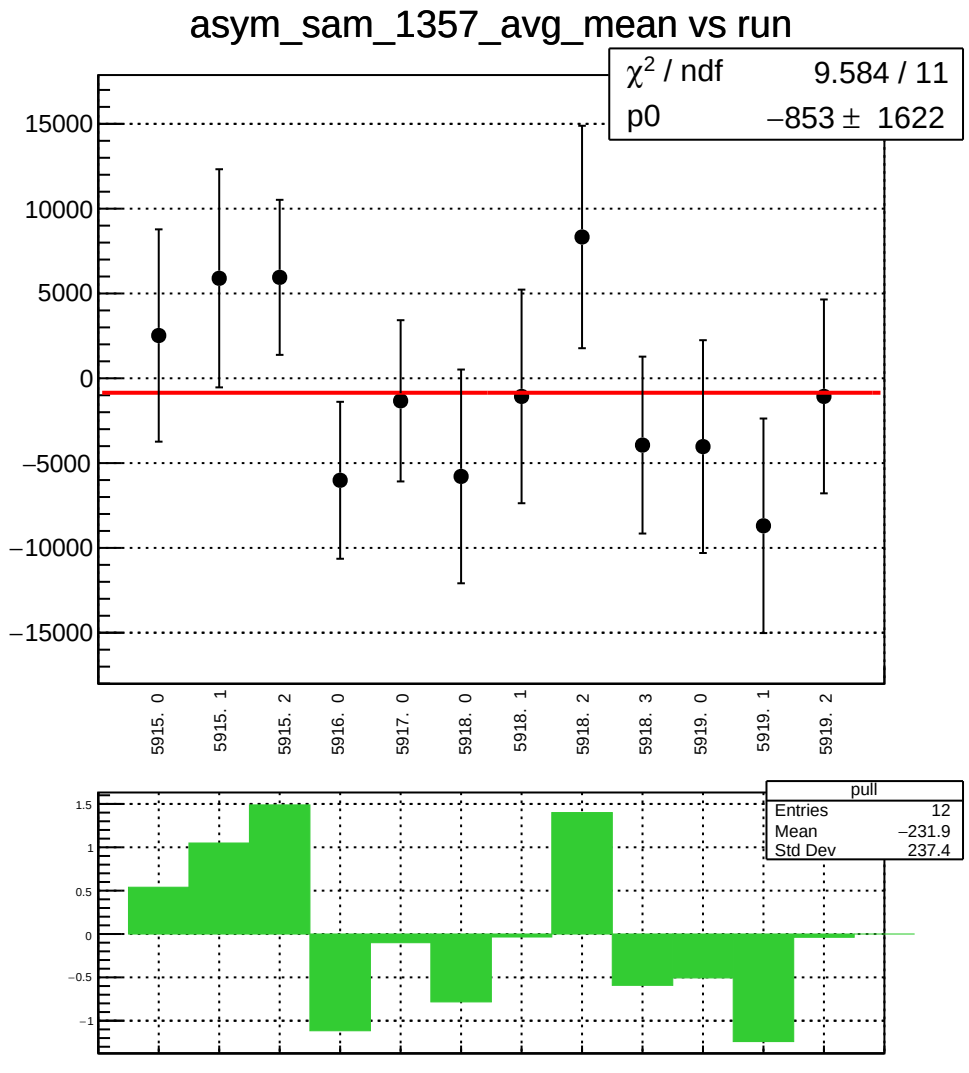

pull1D
Entries 12
Mean −0.008762
Std Dev 1.311
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

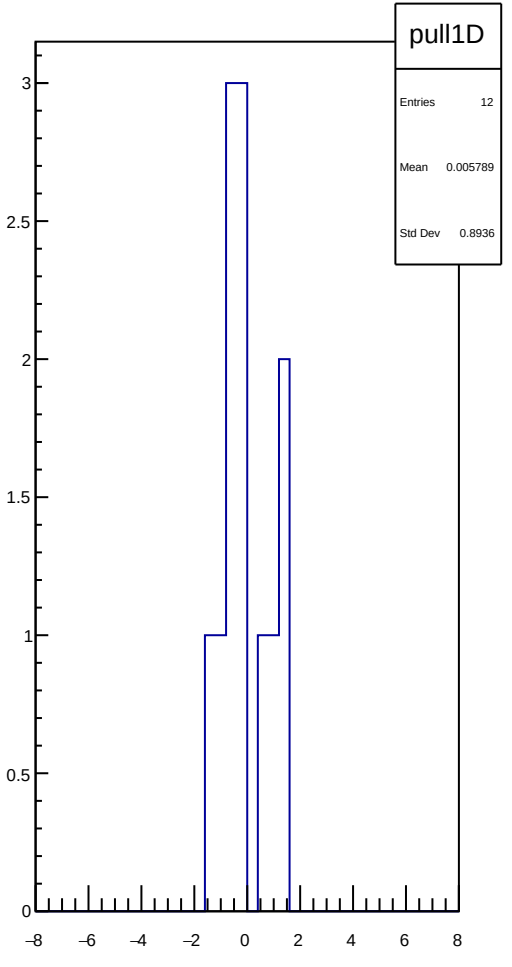

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 158.3 / 11
p0 58.71 ± 0.1122
61
60
59
58
57
56
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

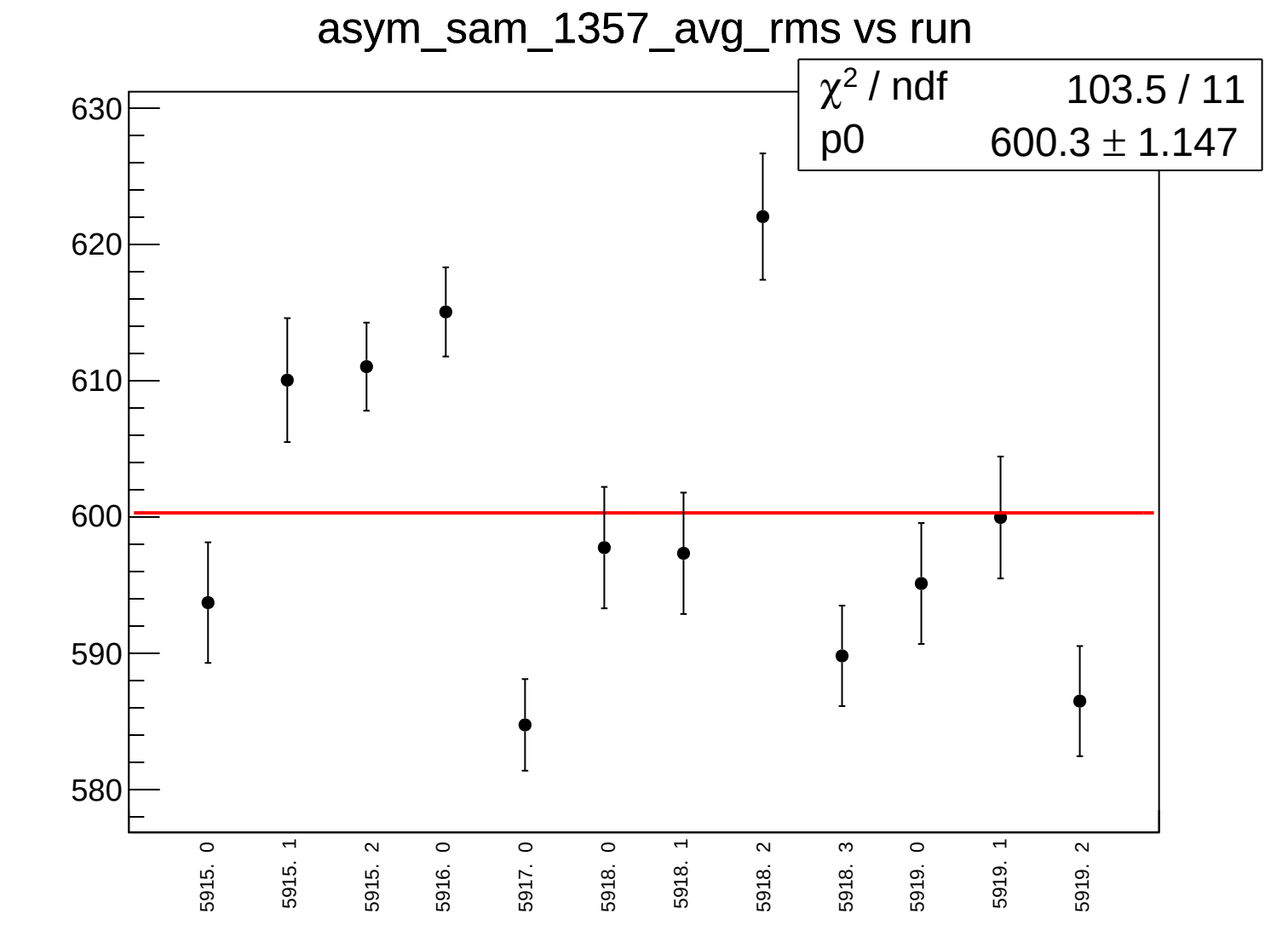

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 9.869 / 11
p0 941.2 ± 1614
15000
10000
5000
0
−5000
−10000
−15000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −191.9
Std Dev 197.2
1
0.5
0
−0.5
−1
−1.5

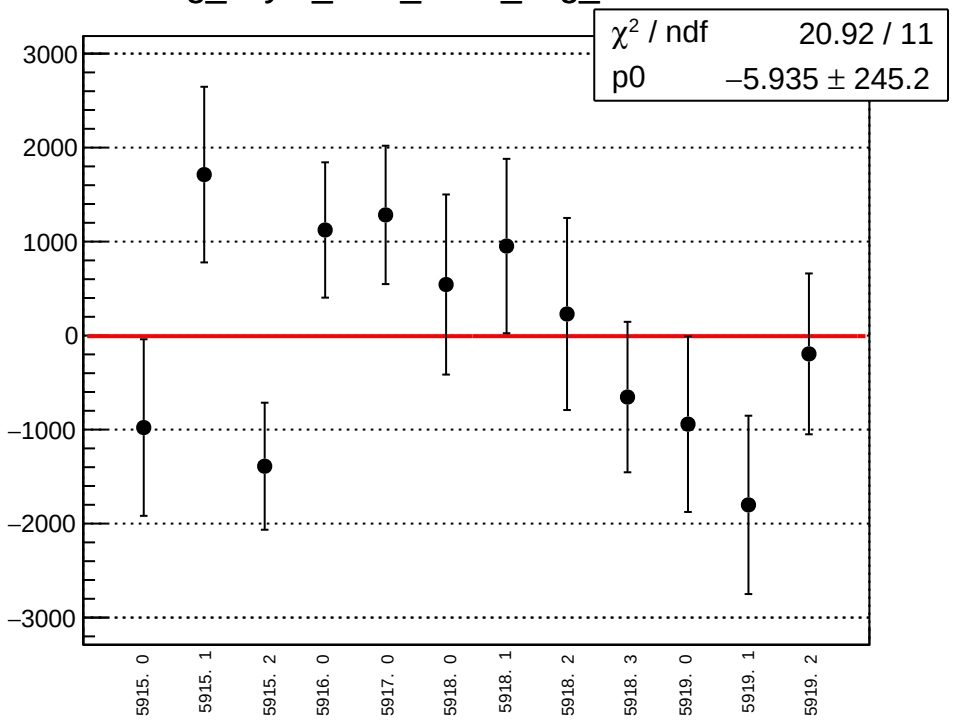

pull1D
Entries 12
Mean −0.006526
Std Dev 0.9068
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

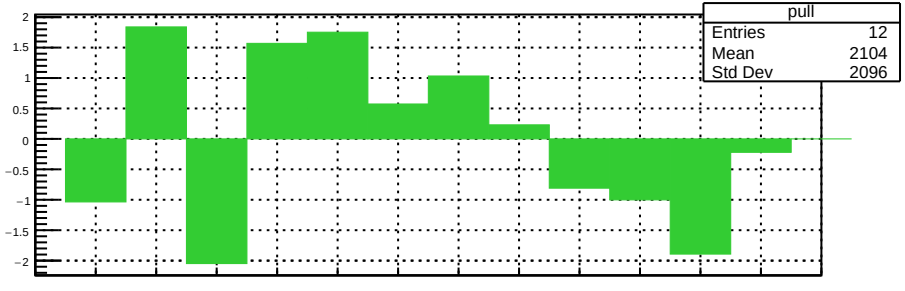

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 104.5 / 11
p0 597.4 ± 1.141
620
610
600
590
580
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

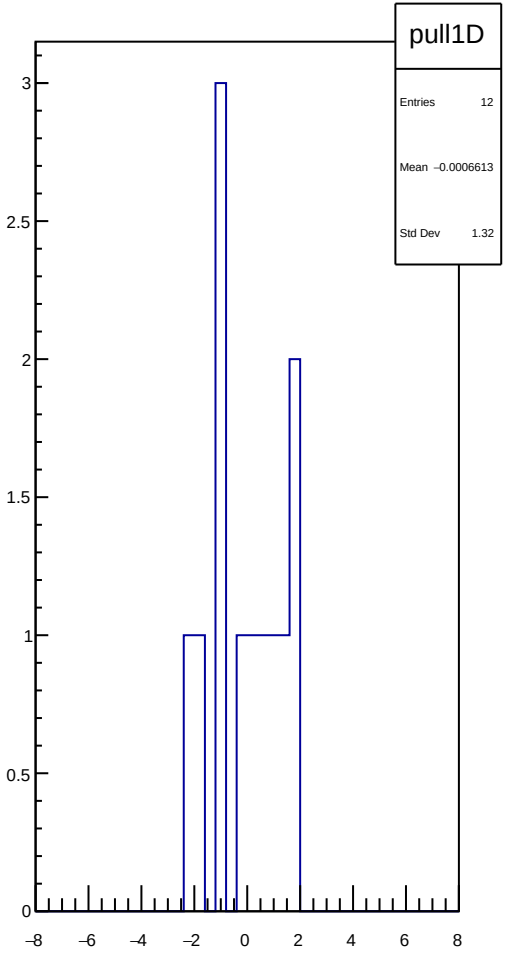

asym_sam_1357_avg_mean vs run
χ² / ndf 9.584 / 11
p0 −853 ± 1622
15000
10000
5000
0
−5000
−10000
−15000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −231.9
Std Dev 237.4
1.5
1
0.5
0
−0.5
−1

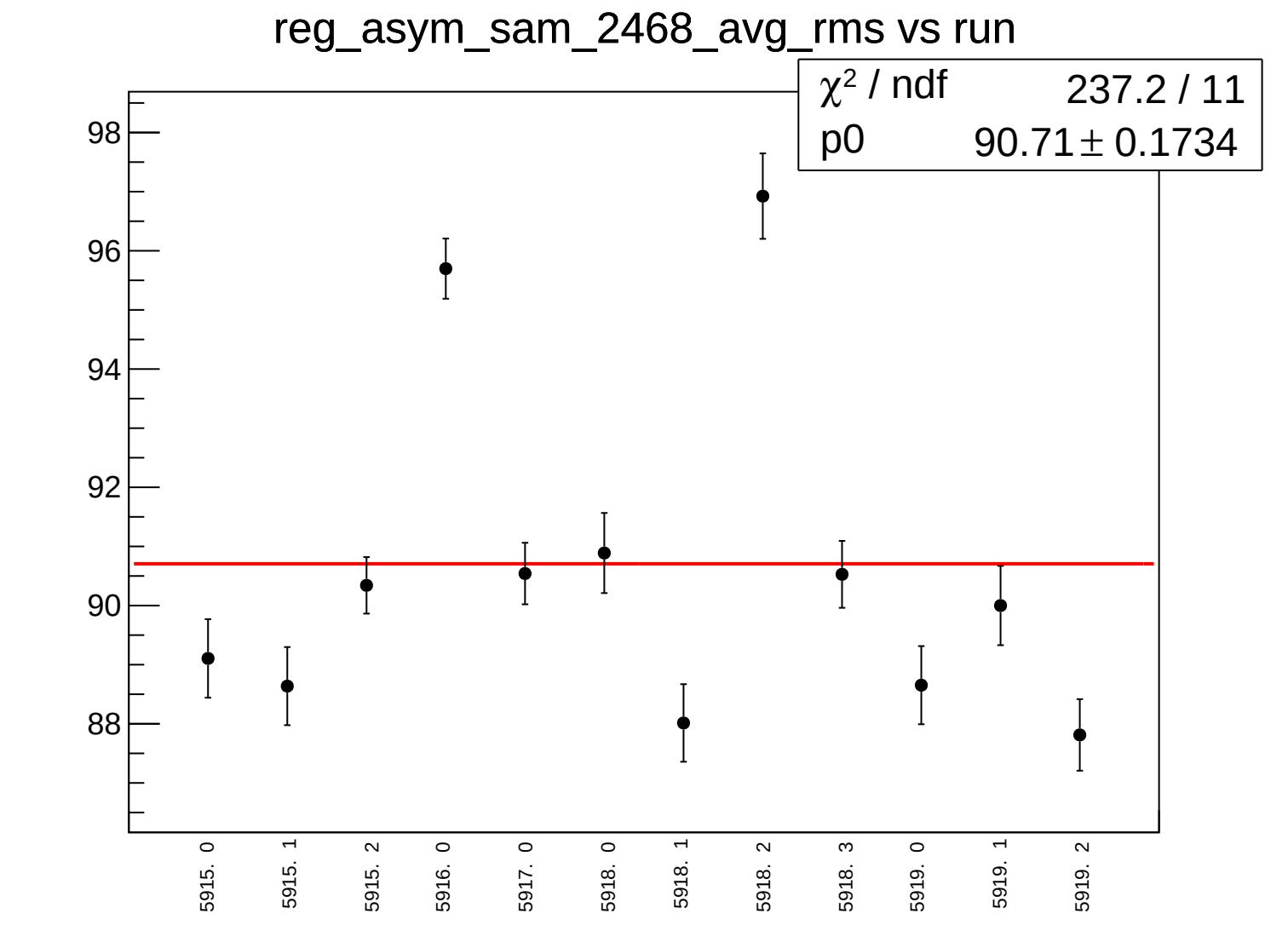

pull1D
Entries 12
Mean 0.005789
Std Dev 0.8936
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

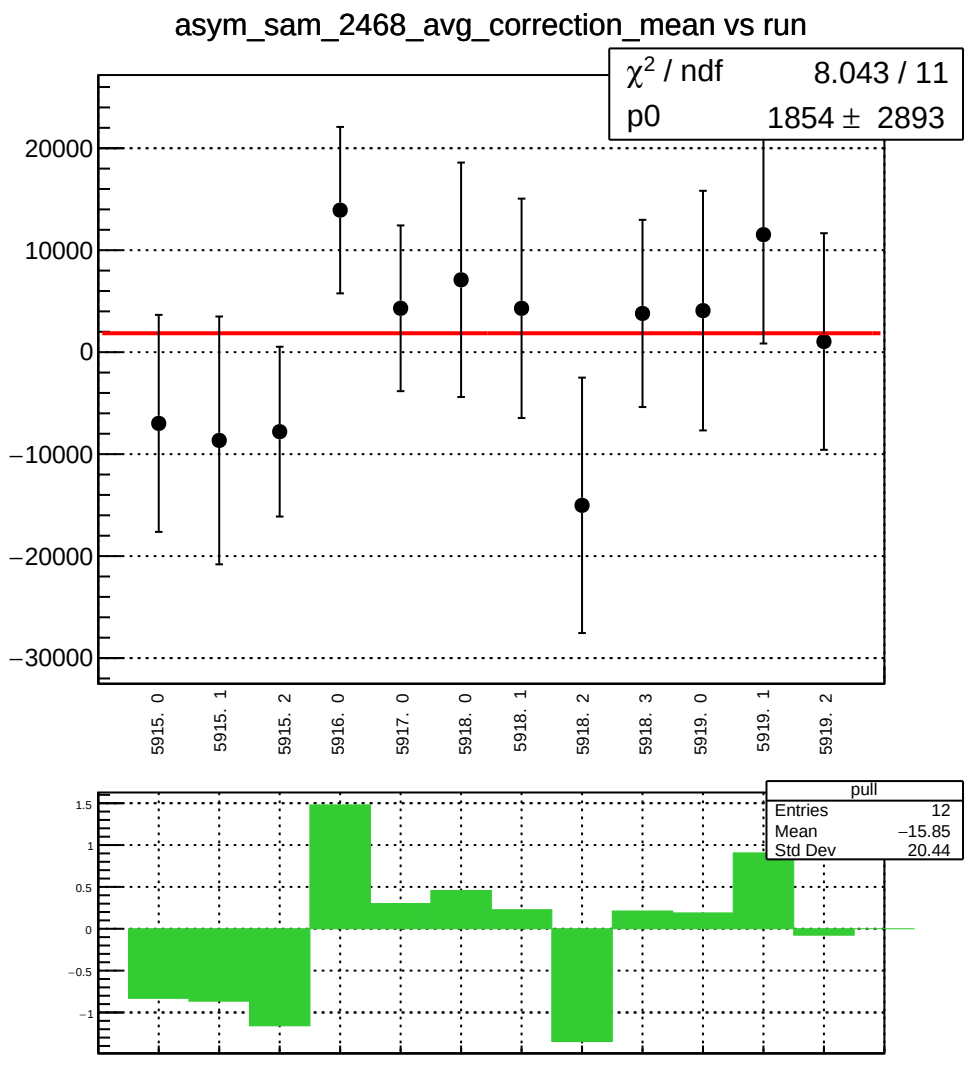

asym_sam_1357_avg_rms vs run
χ² / ndf 103.5 / 11
p0 600.3 ± 1.147
630
620
610
600
590
580
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

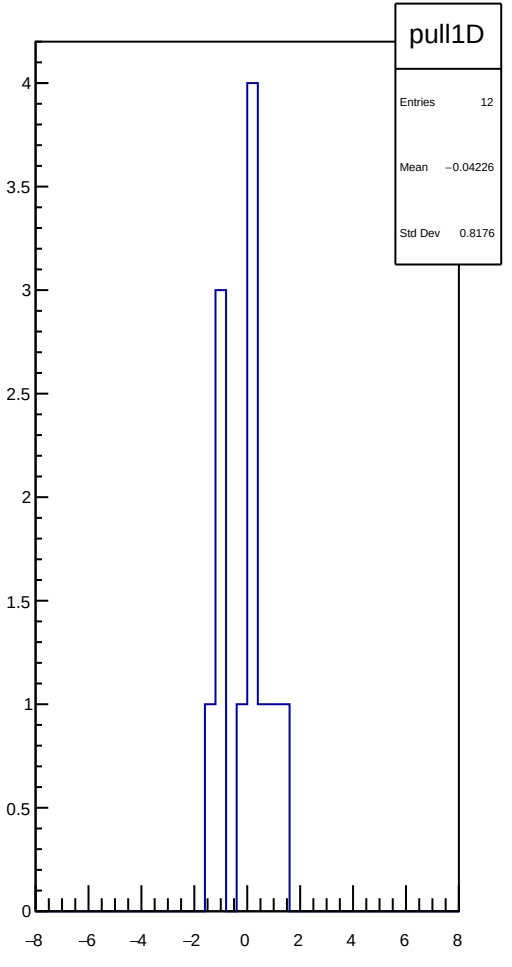

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 20.92 / 11
p0 −5.935 ± 245.2
3000
2000
1000
0
−1000
−2000
−3000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

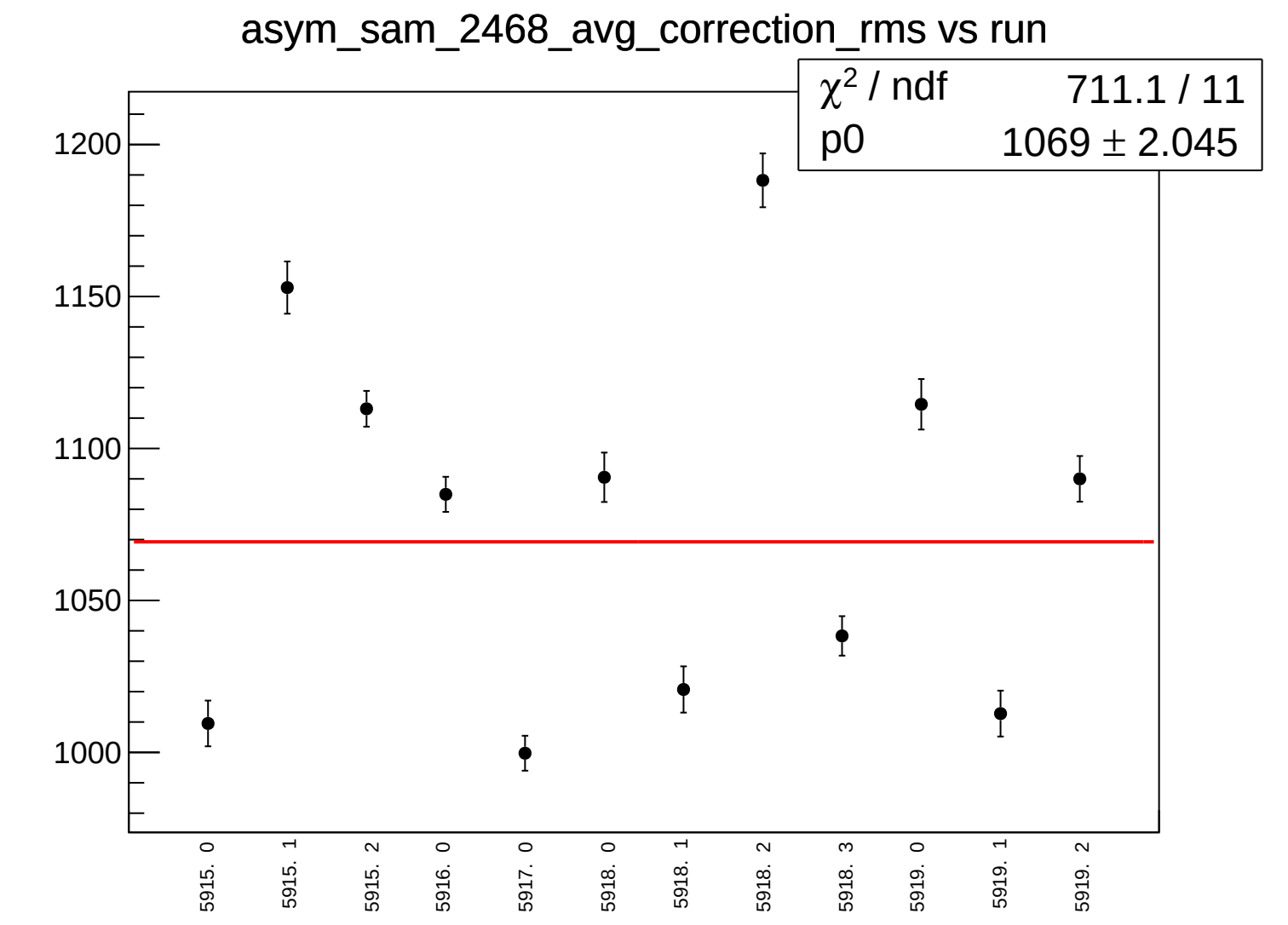

pull
Entries 12
Mean 2104
Std Dev 2096
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

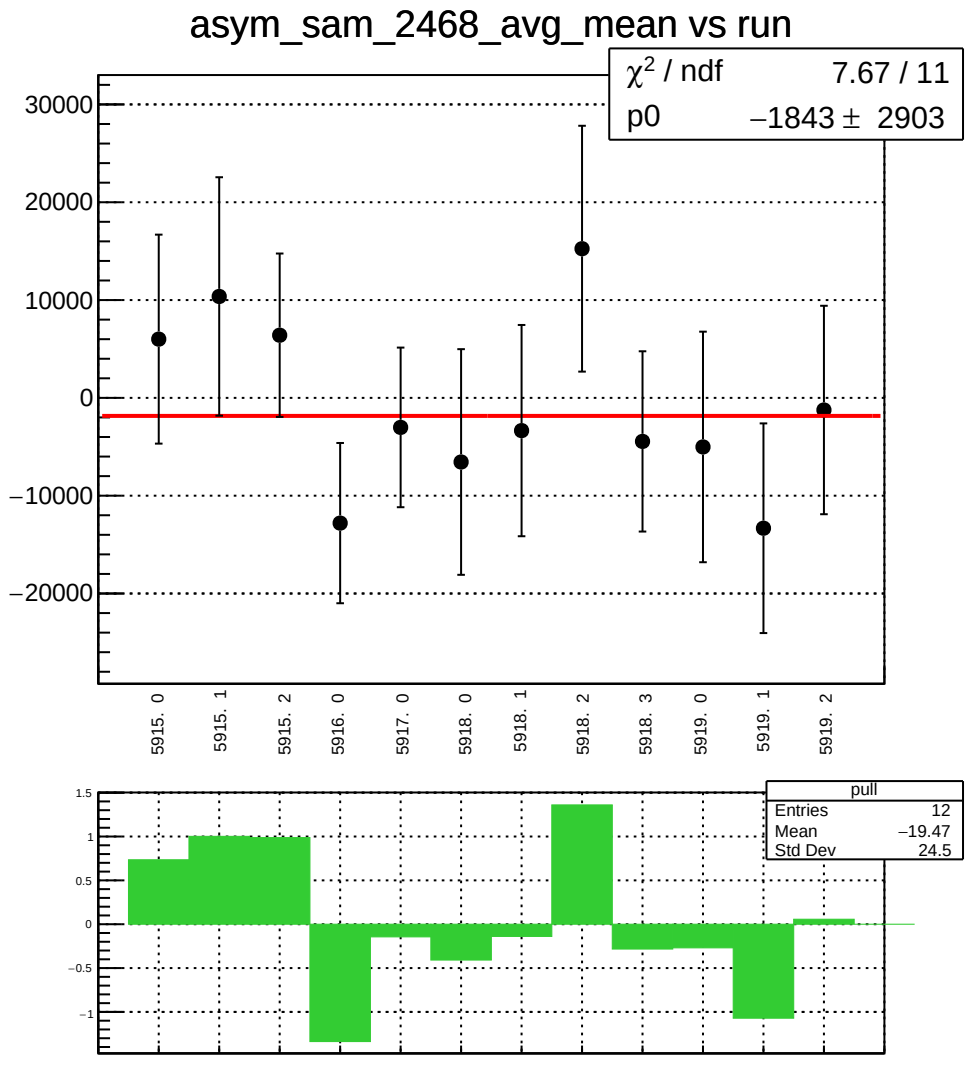

pull1D
Entries 12
Mean −0.0006613
Std Dev 1.32
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

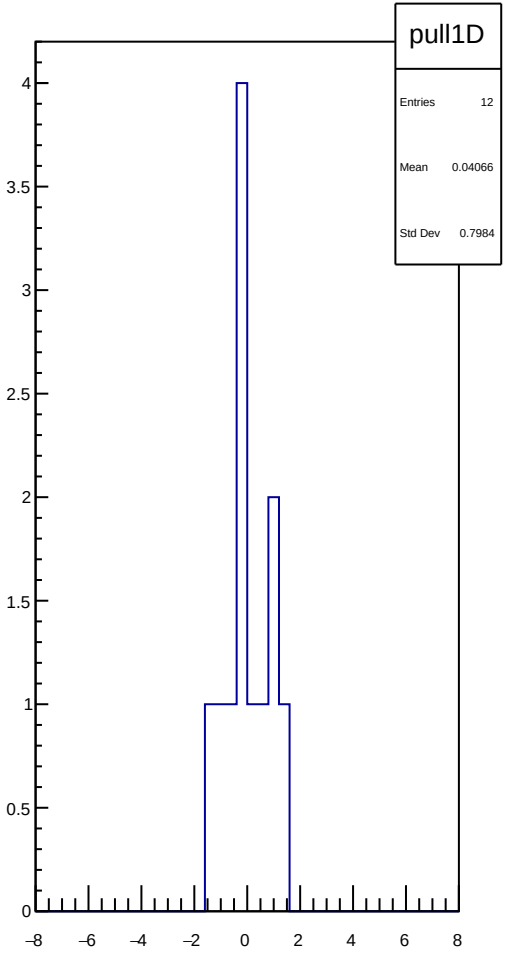

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 237.2 / 11
p0 90.71 ± 0.1734
98
96
94
92
90
88
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

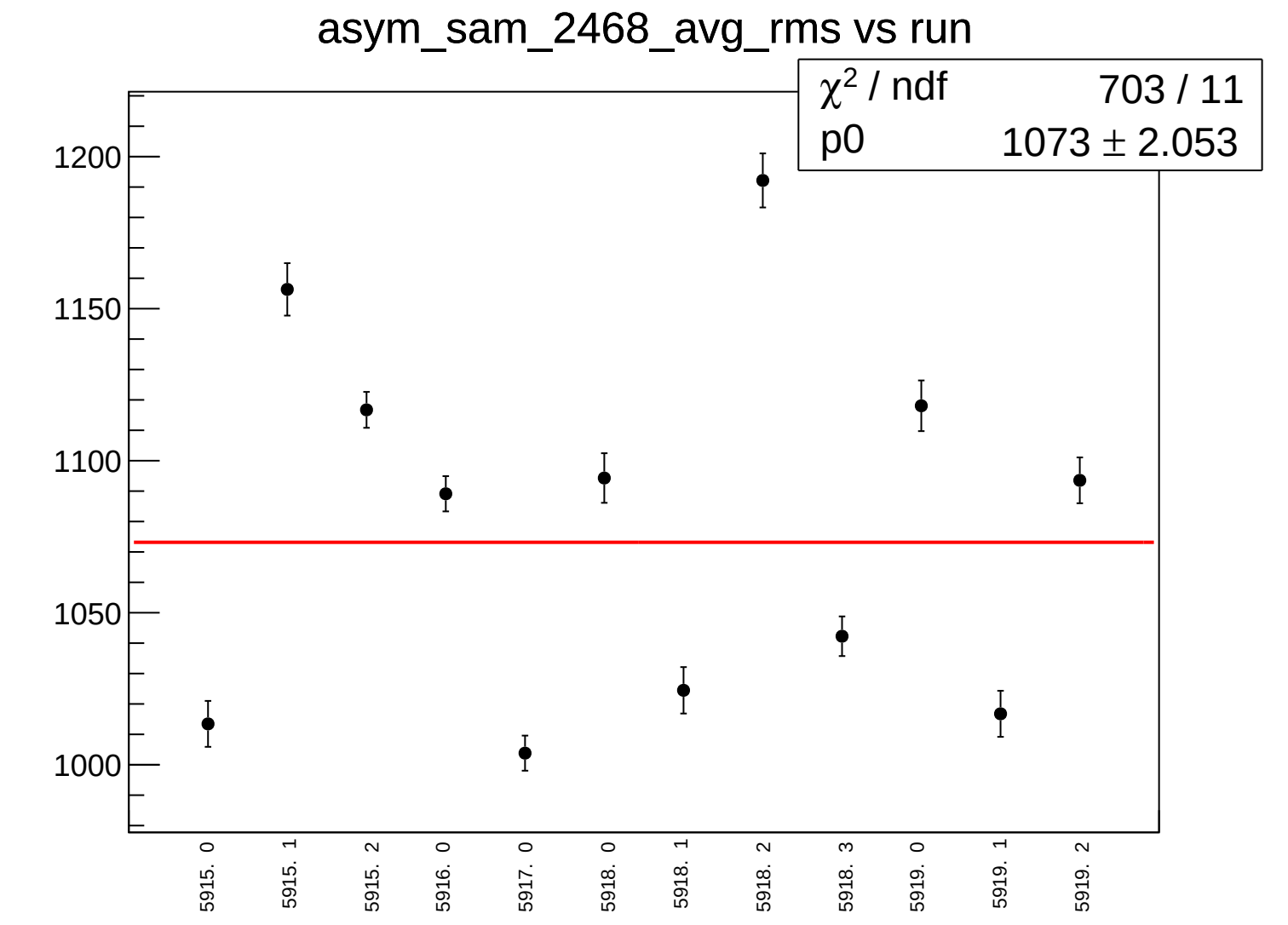

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 8.043 / 11
p0 1854 ± 2893
20000
10000
0
−10000
−20000
−30000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −15.85
Std Dev 20.44
1.5
1
0.5
0
−0.5
−1

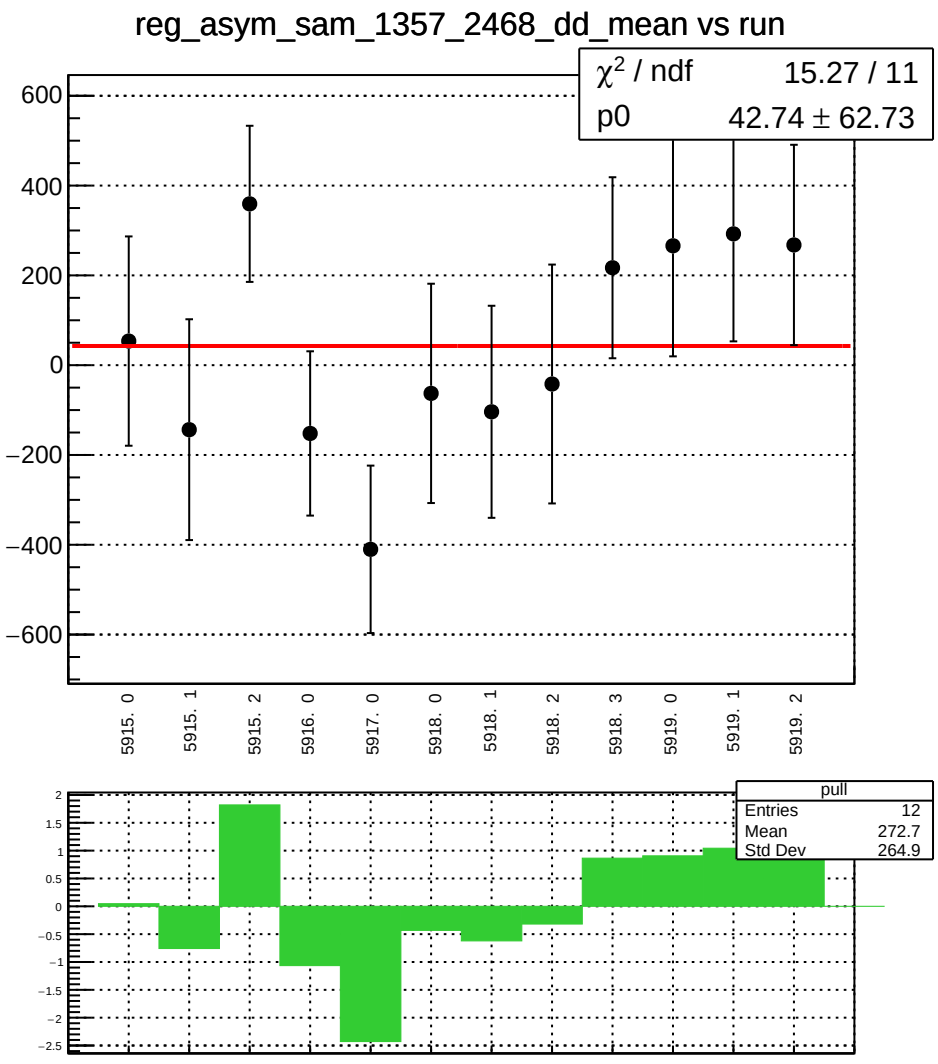

pull1D
Entries 12
Mean −0.04226
Std Dev 0.8176
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

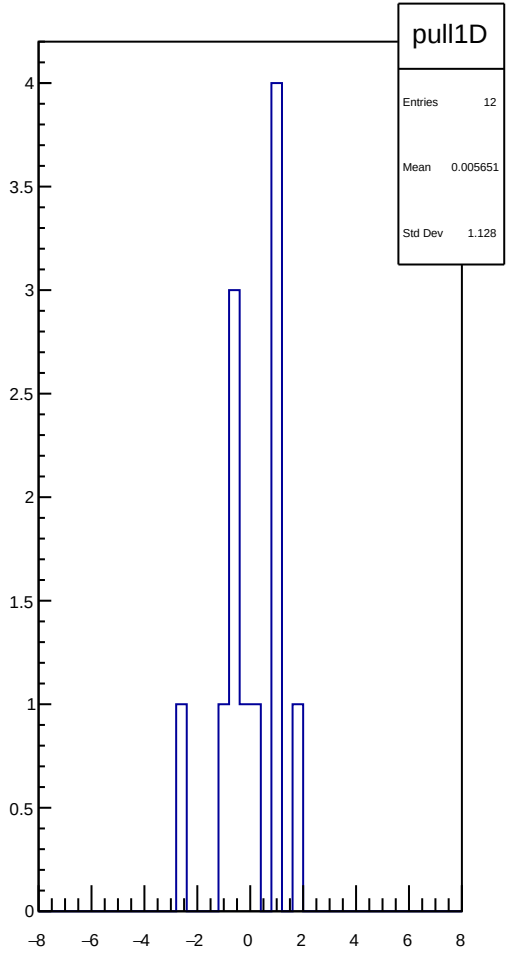

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 711.1 / 11
p0 1069 ± 2.045
1200
1150
1100
1050
1000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

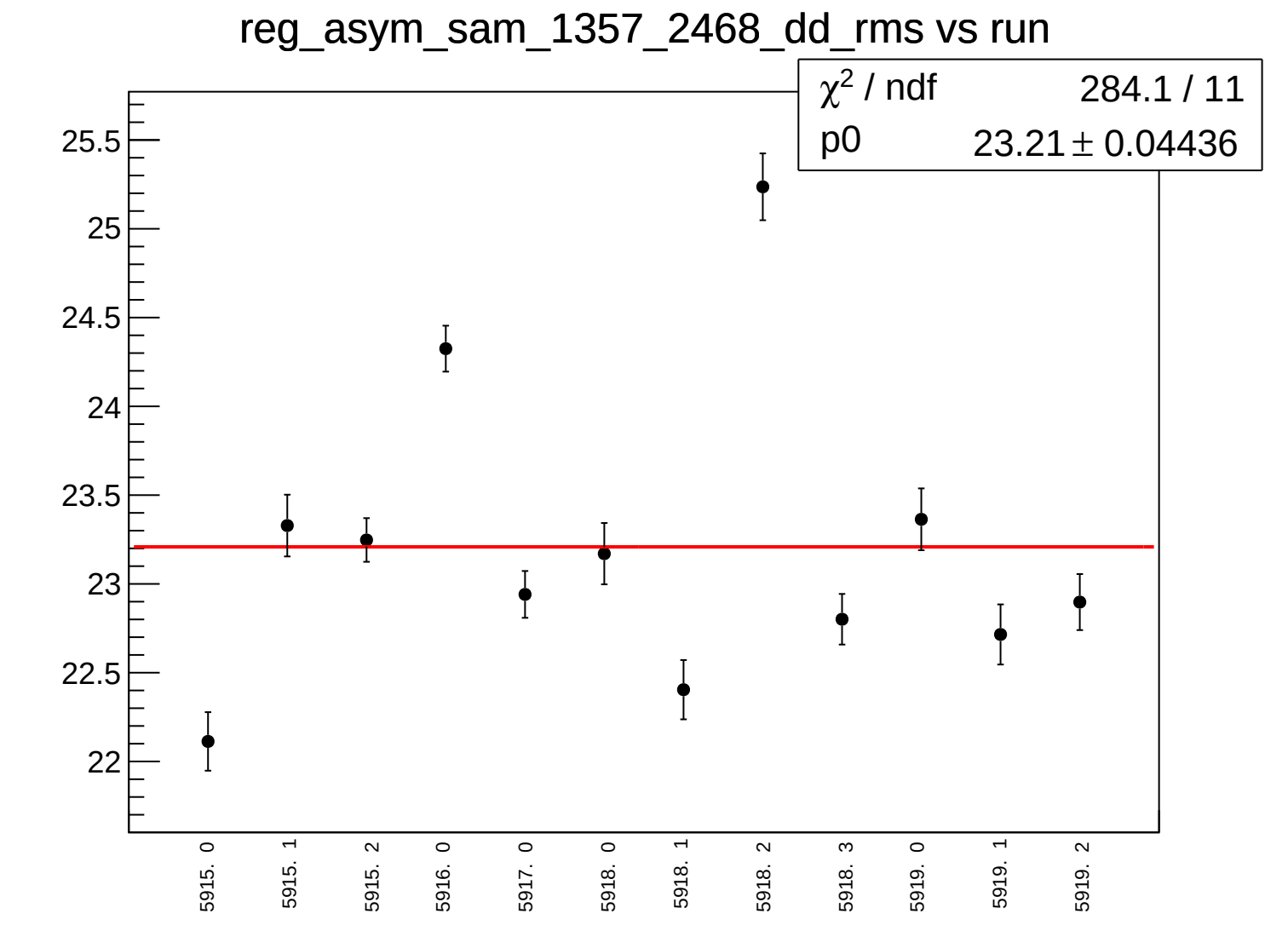

asym_sam_2468_avg_mean vs run
χ² / ndf 7.67 / 11
p0 −1843 ± 2903
30000
20000
10000
0
−10000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −19.47
Std Dev 24.5
1.5
1
0.5
0
−0.5
−1

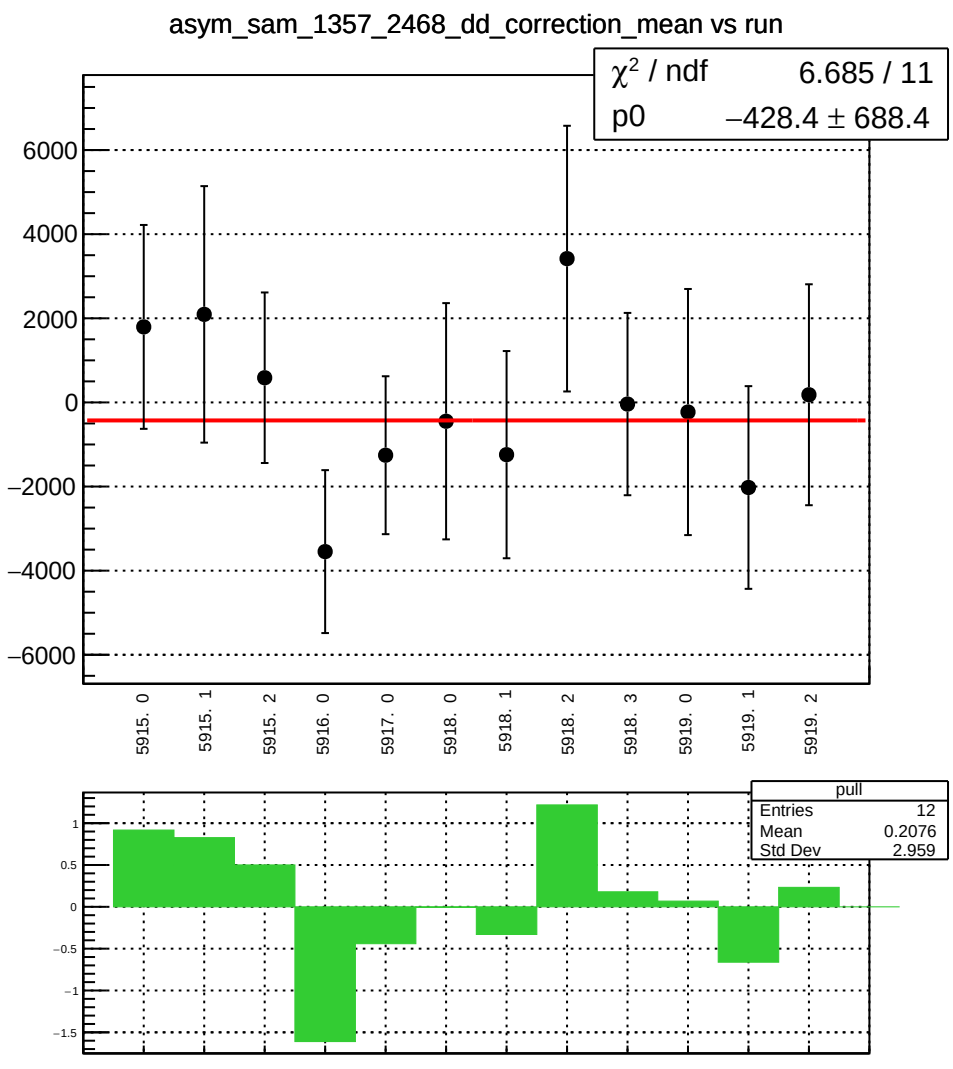

pull1D
Entries 12
Mean 0.04066
Std Dev 0.7984
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

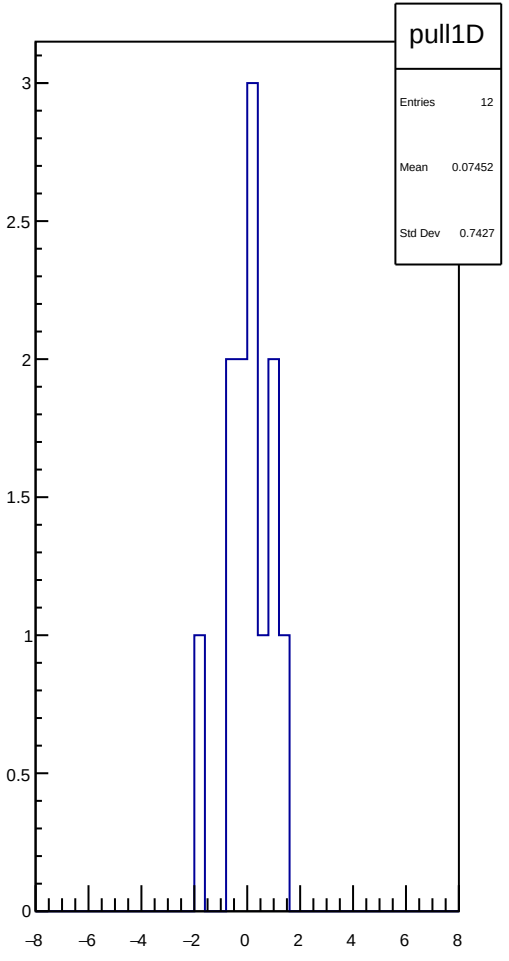

asym_sam_2468_avg_rms vs run
χ² / ndf 703 / 11
p0 1073 ± 2.053
1200
1150
1100
1050
1000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

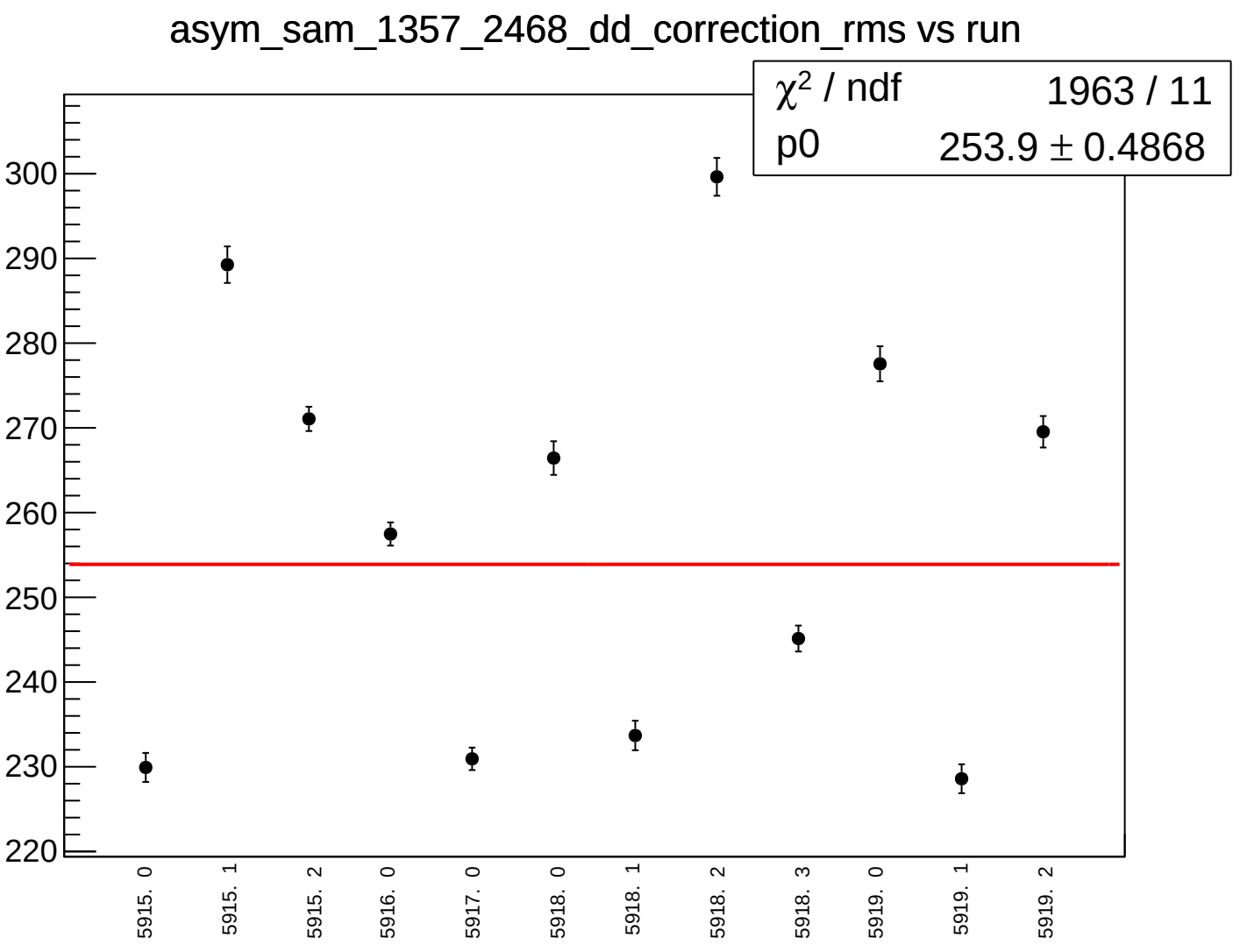

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 15.27 / 11
p0 42.74 ± 62.73
600
400
200
0
−200
−400
−600
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 272.7
Std Dev 264.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

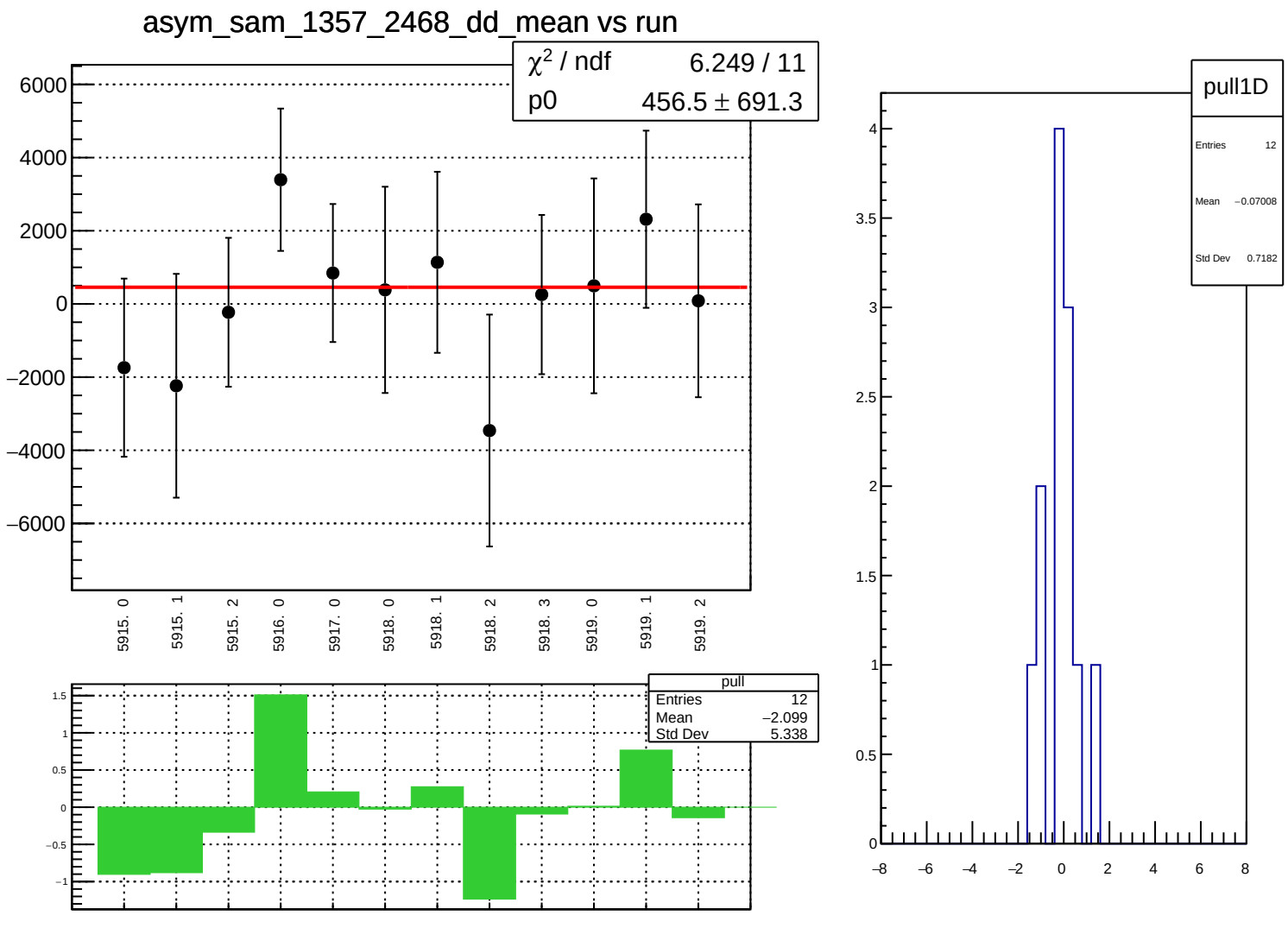

pull1D
Entries 12
Mean 0.005651
Std Dev 1.128
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

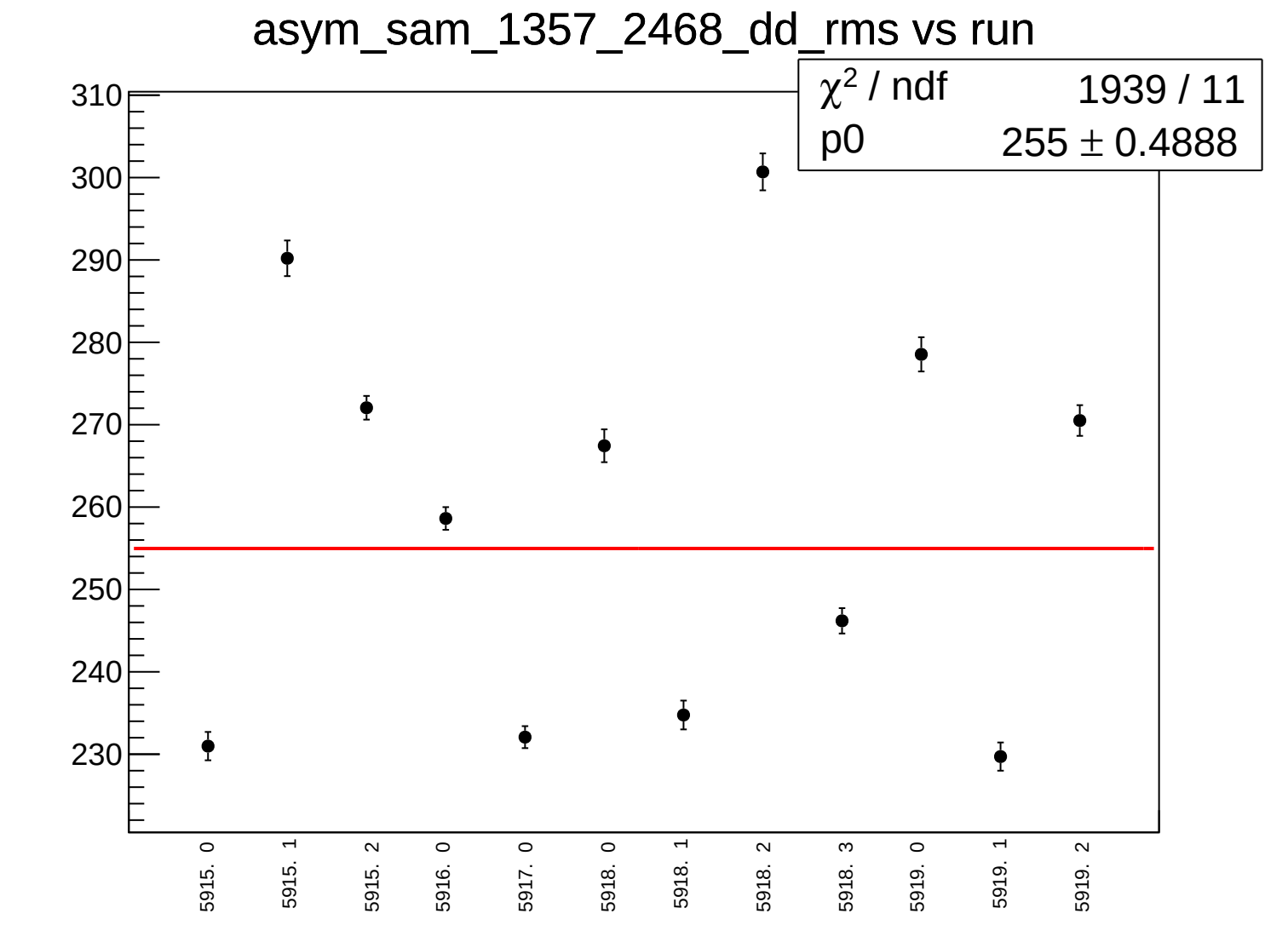

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 284.1 / 11
p0 23.21 ± 0.04436
25.5
25
24.5
24
23.5
23
22.5
22
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

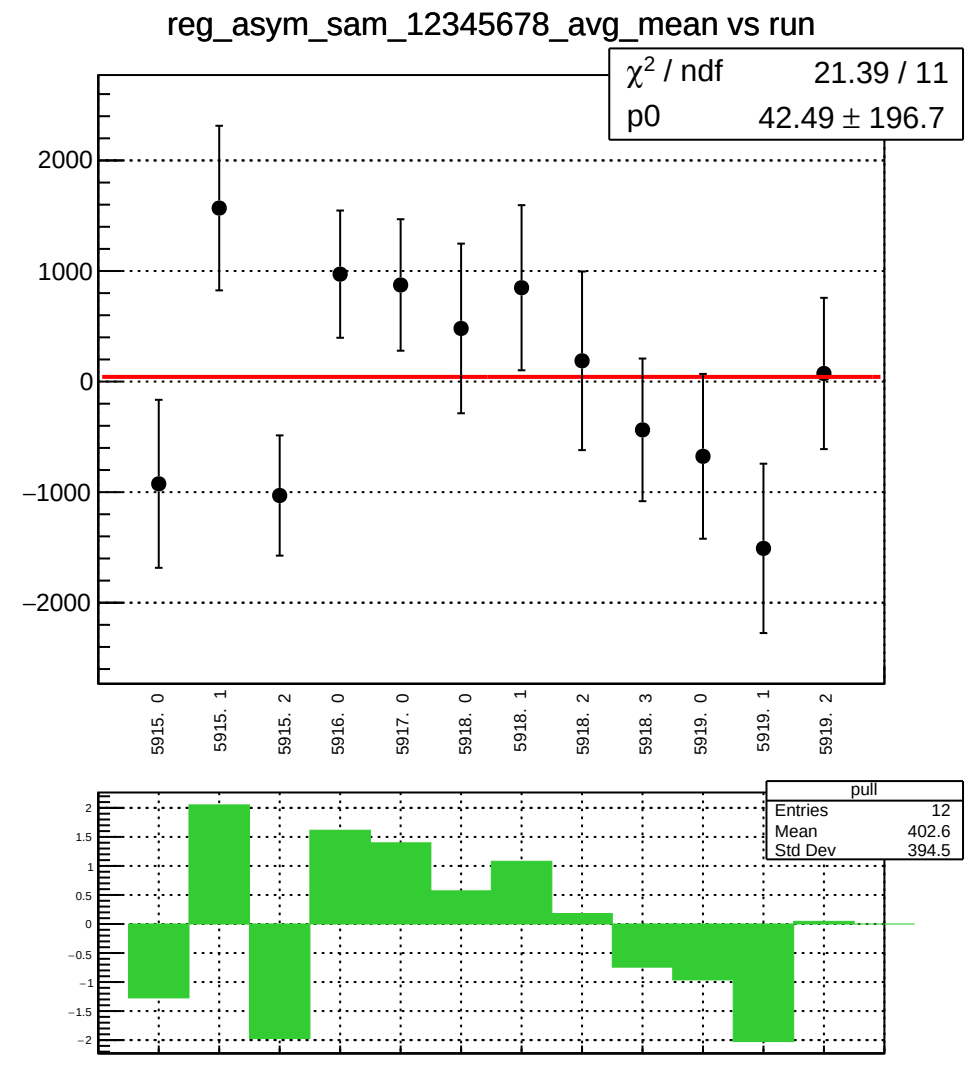

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 6.685 / 11
p0 −428.4 ± 688.4
6000
4000
2000
0
−2000
−4000
−6000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.2076
Std Dev 2.959
1
0.5
0
−0.5
−1
−1.5

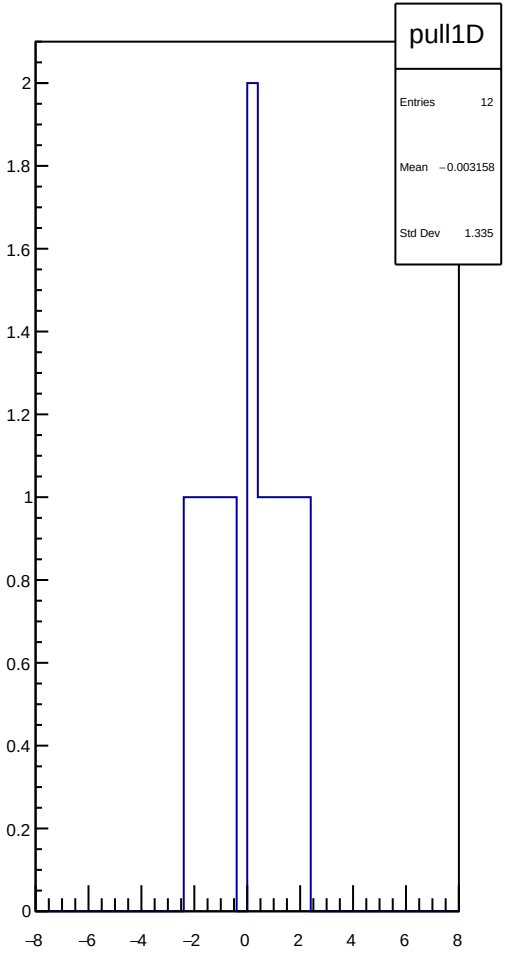

pull1D
Entries 12
Mean 0.07452
Std Dev 0.7427
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

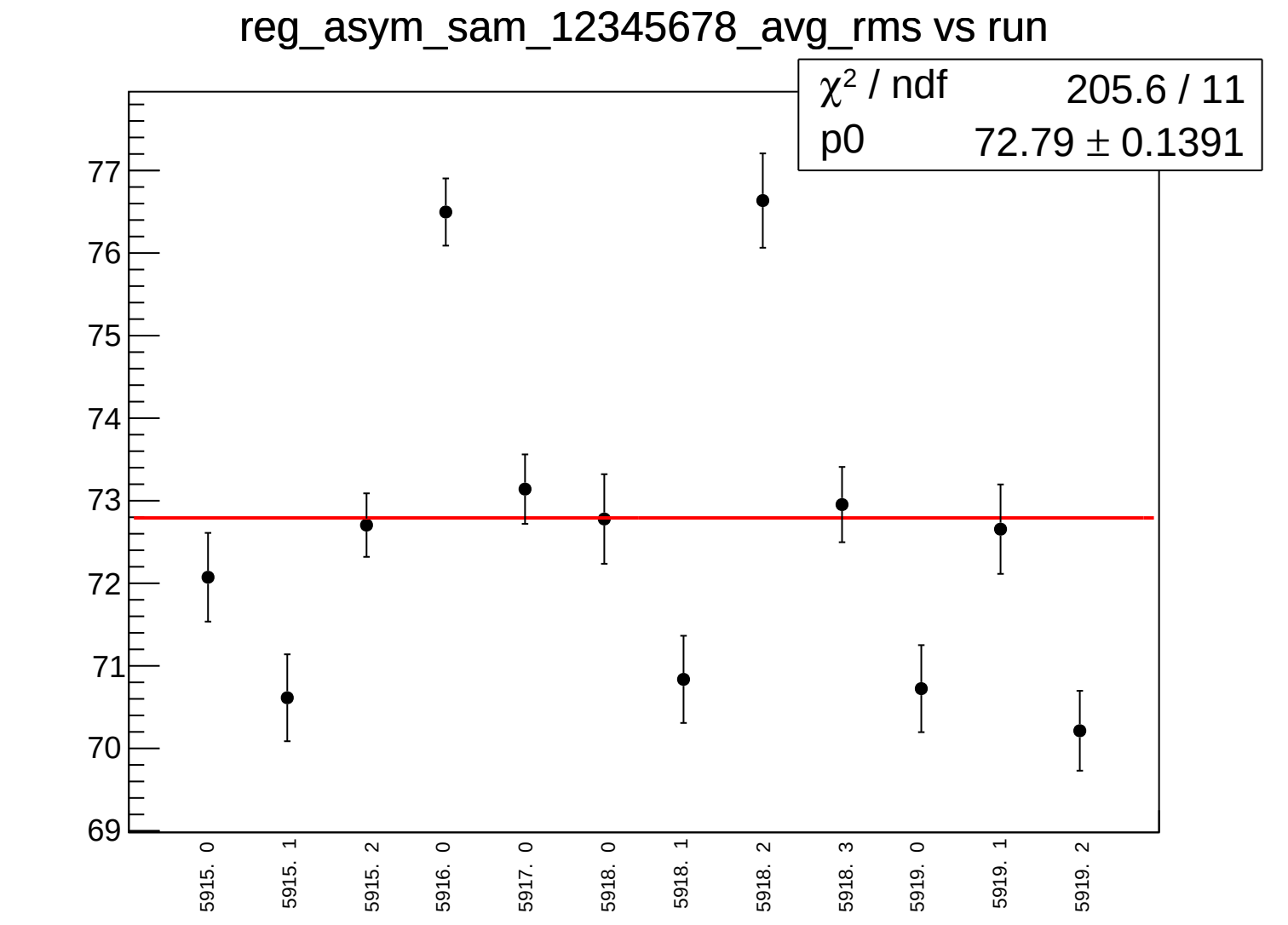

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1963 / 11
p0 253.9 ± 0.4868
300
290
280
270
260
250
240
230
220
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

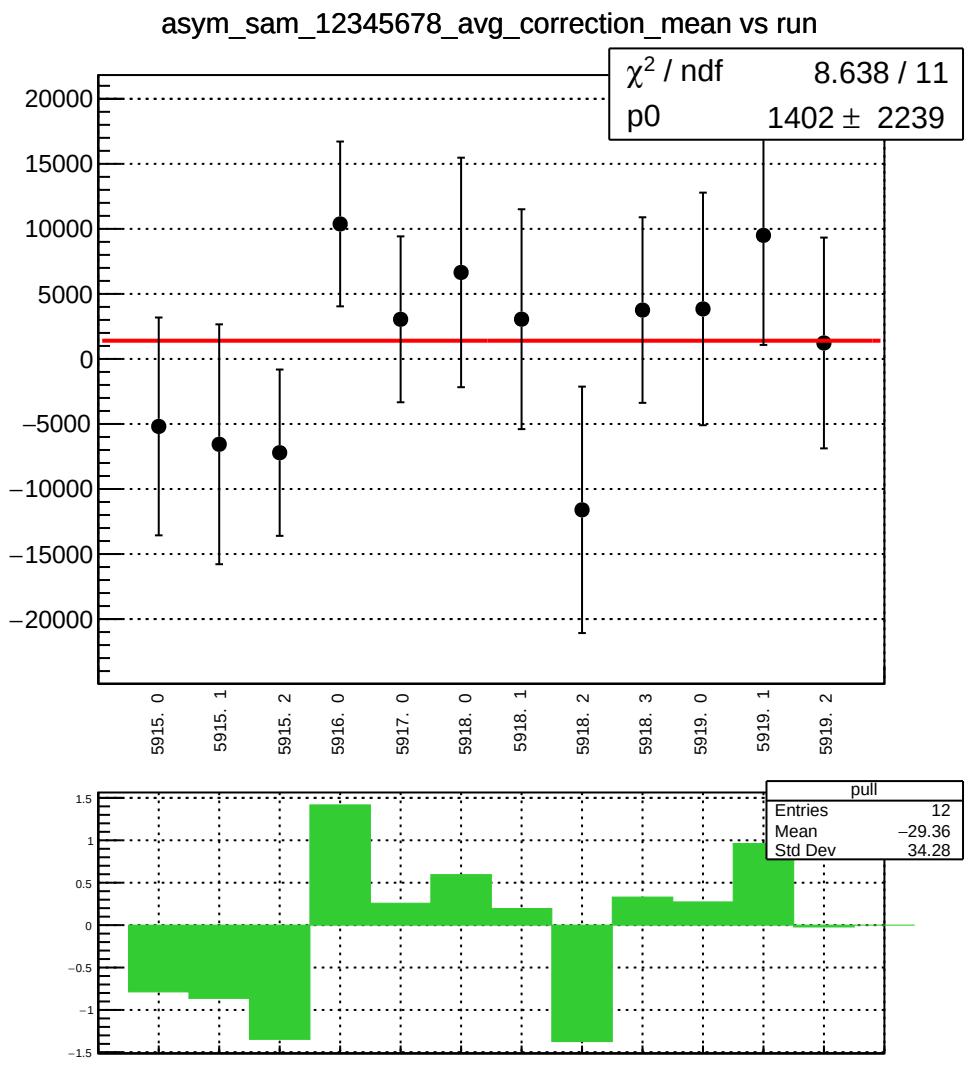

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 6.249 / 11
p0 456.5 ± 691.3
6000
4000
2000
0
−2000
−4000
−6000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −2.099
Std Dev 5.338
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.07008
Std Dev 0.7182
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

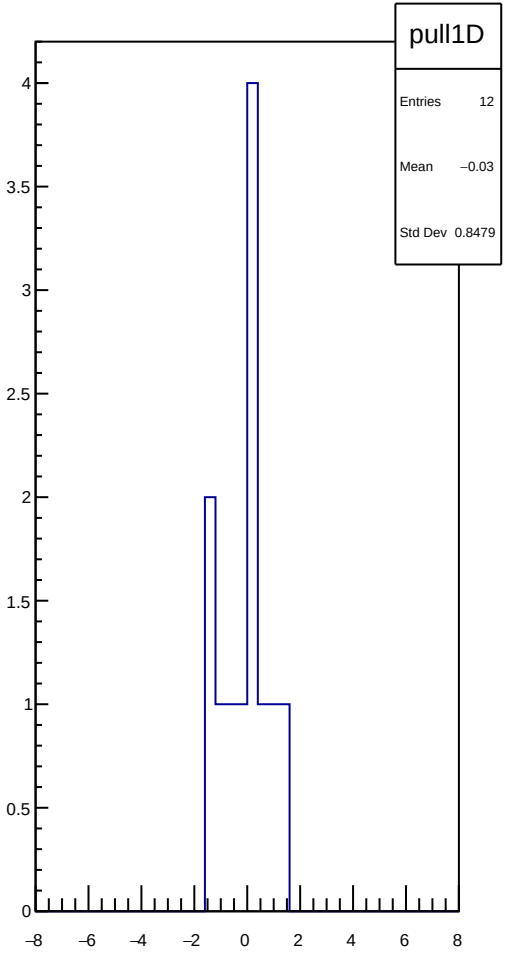

asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1939 / 11
p0 255 ± 0.4888
310
300
290
280
270
260
250
240
230
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

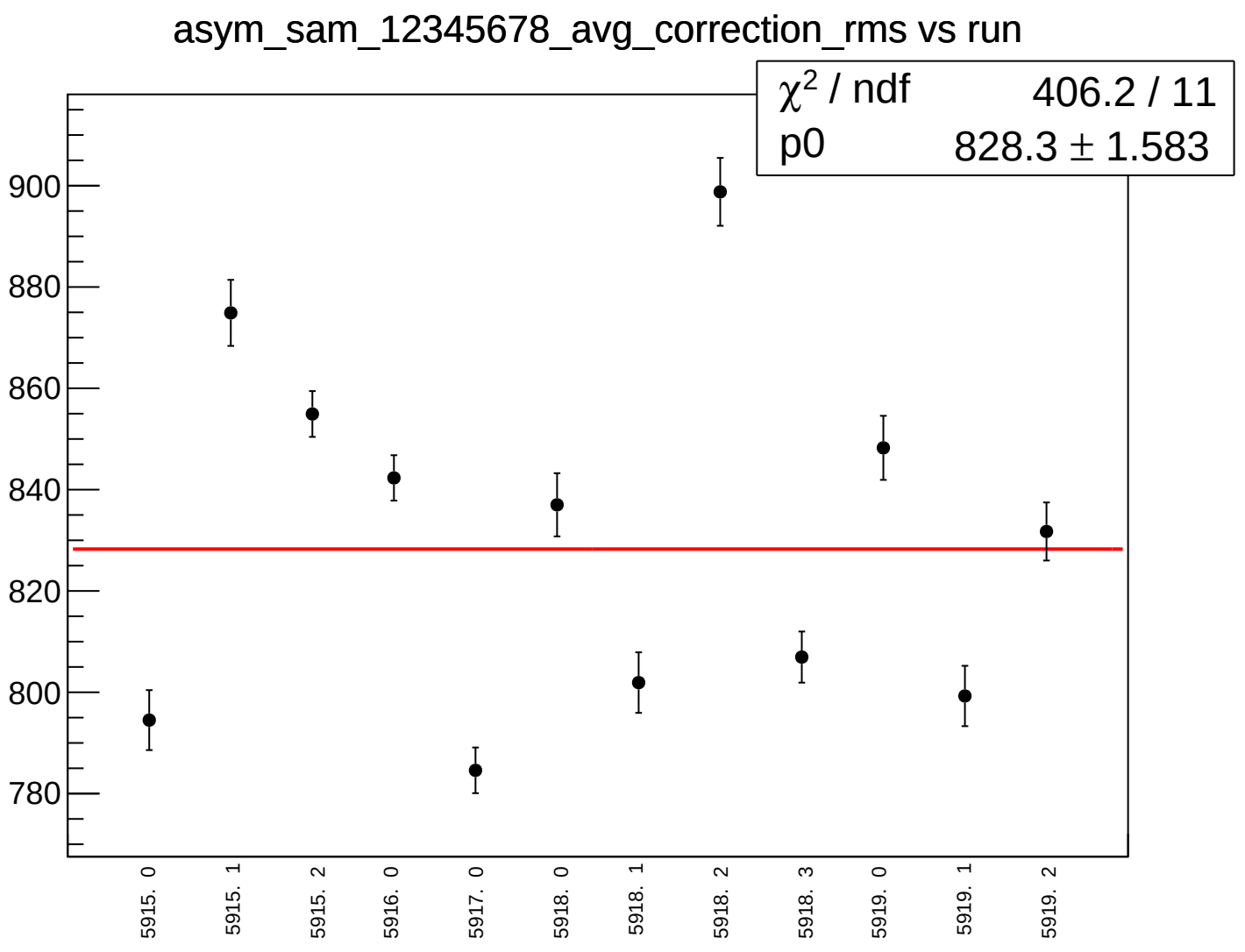

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 21.39 / 11
p0 42.49 ± 196.7
2000
1000
0
−1000
−2000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 402.6
Std Dev 394.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

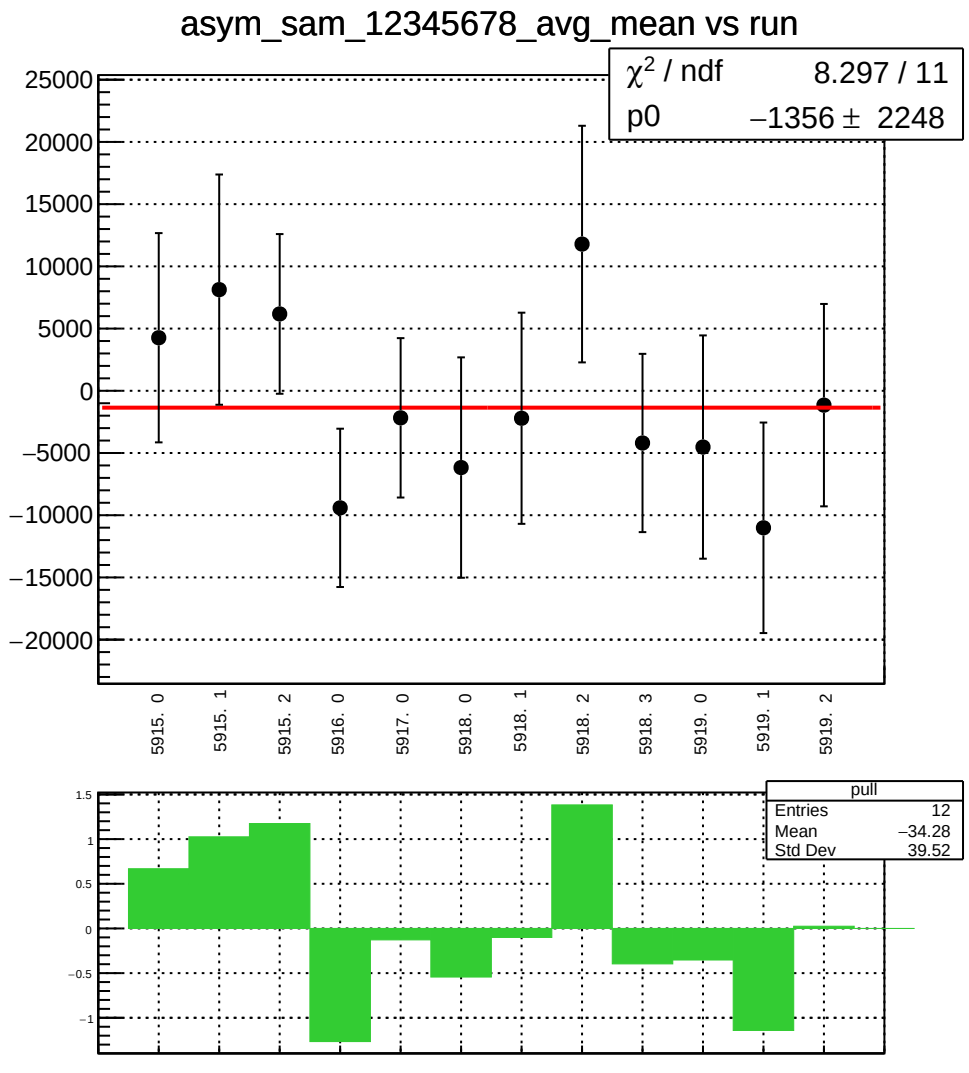

pull1D
Entries 12
Mean −0.003158
Std Dev 1.335
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

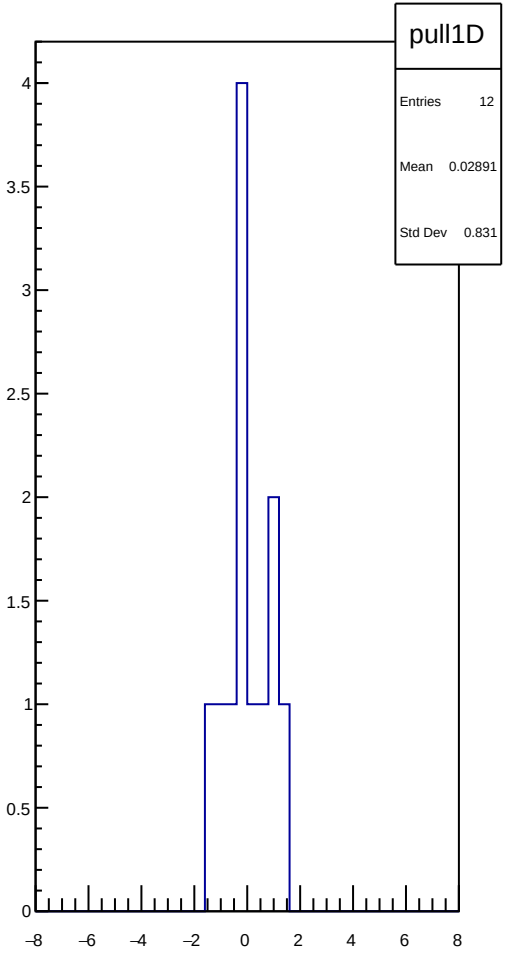

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 205.6 / 11
p0 72.79 ± 0.1391
77
76
75
74
73
72
71
70
69
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

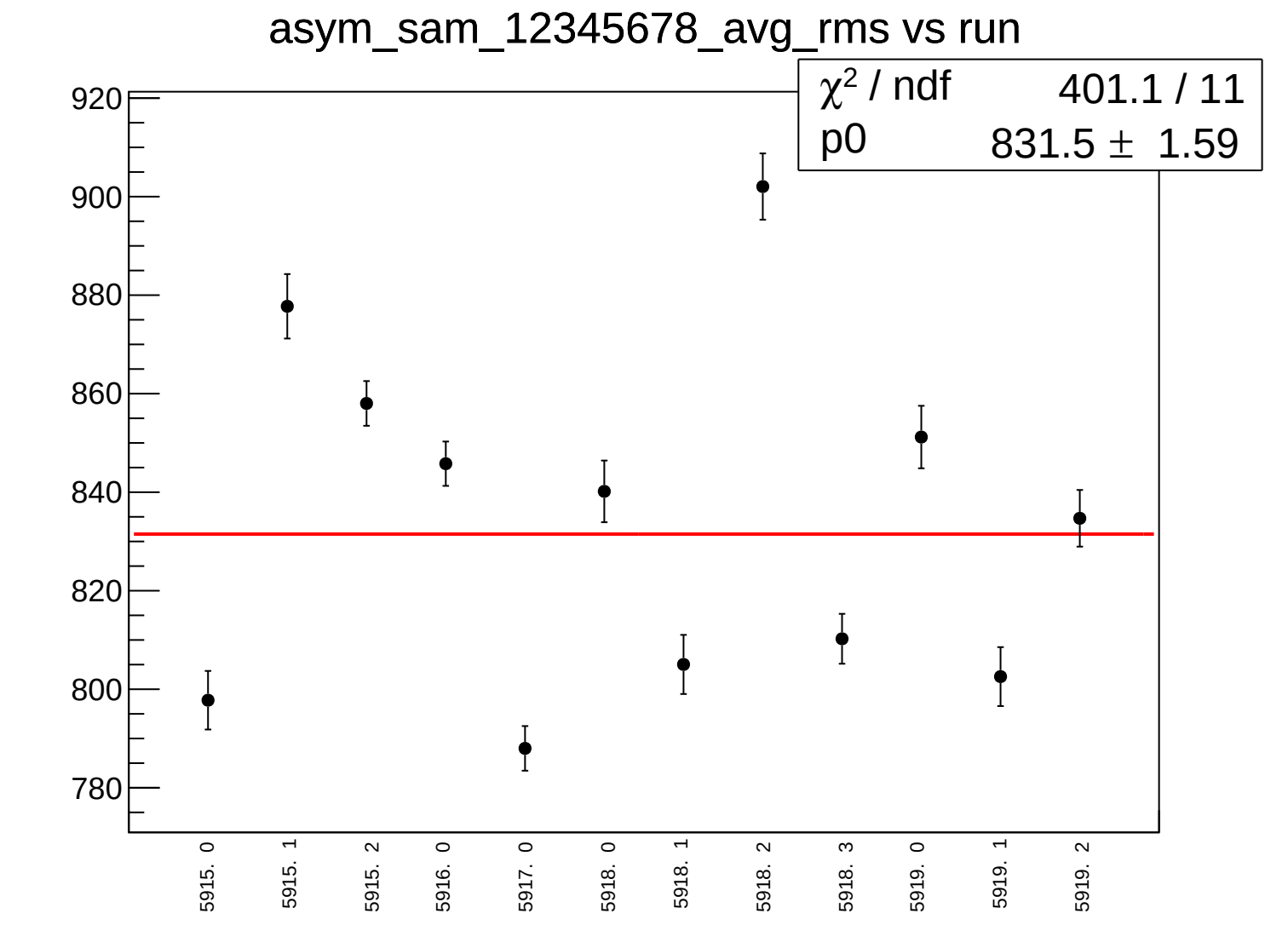

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 8.638 / 11
p0 1402 ± 2239
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −29.36
Std Dev 34.28
1.5
1
0.5
0
−0.5
−1
−1.5

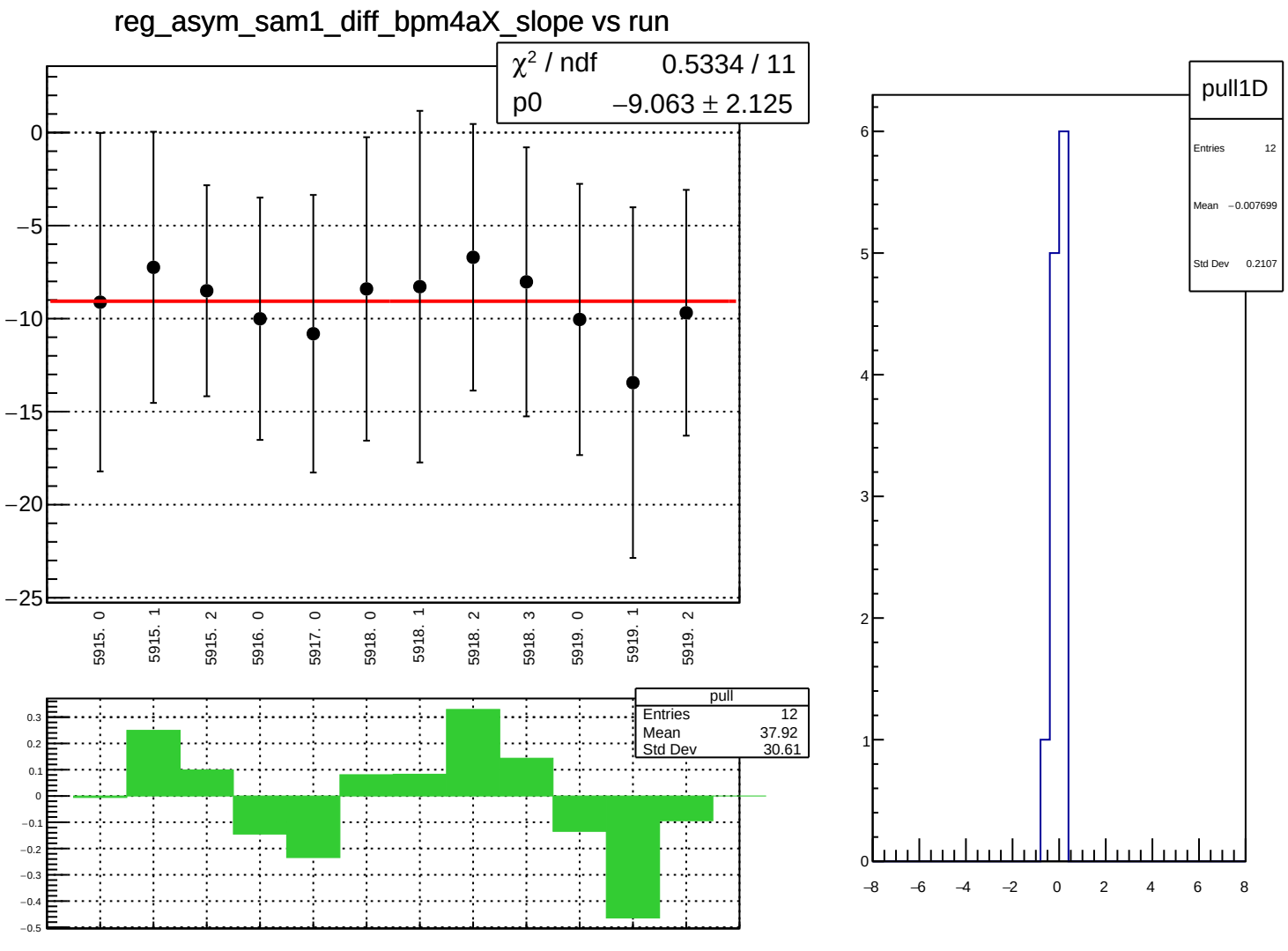

pull1D
Entries 12
Mean −0.03
Std Dev 0.8479
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

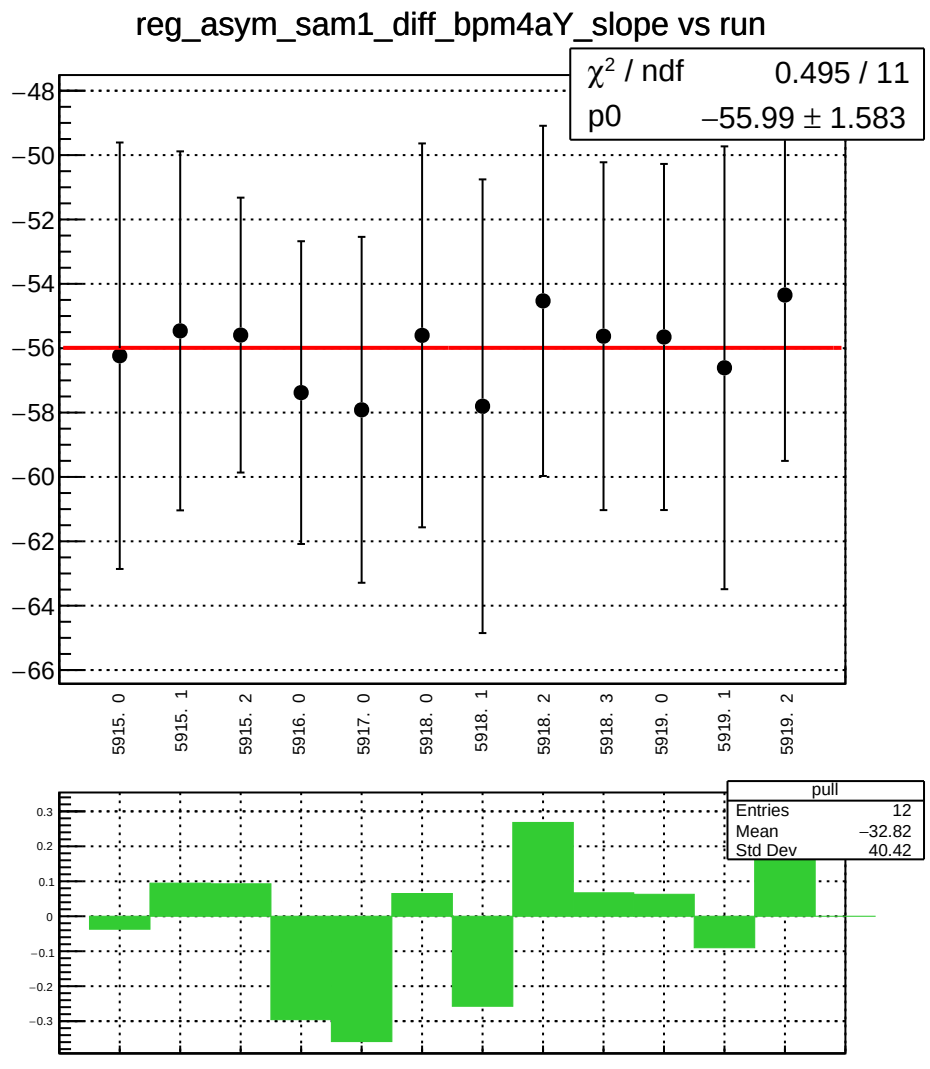

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 406.2 / 11
p0 828.3 ± 1.583
900
880
860
840
820
800
780
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

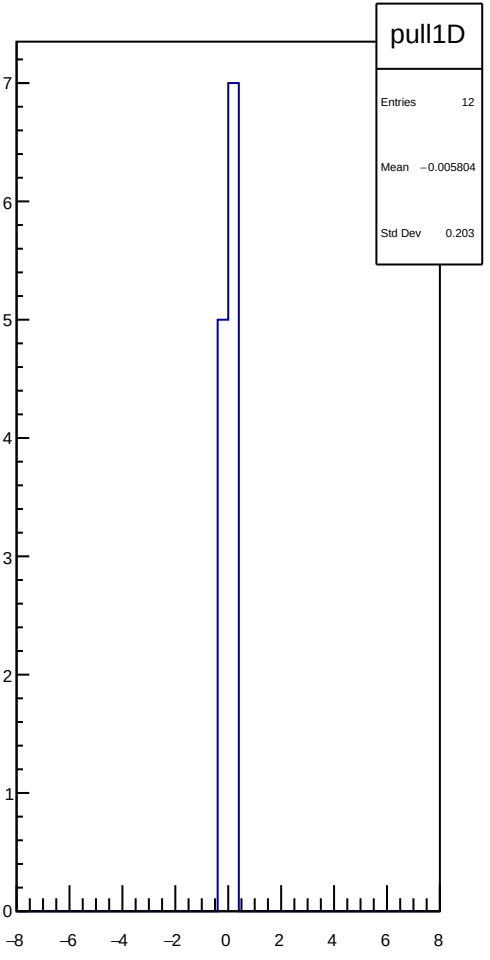

asym_sam_12345678_avg_mean vs run
χ² / ndf 8.297 / 11
p0 −1356 ± 2248
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −34.28
Std Dev 39.52
1.5
1
0.5
0
−0.5
−1

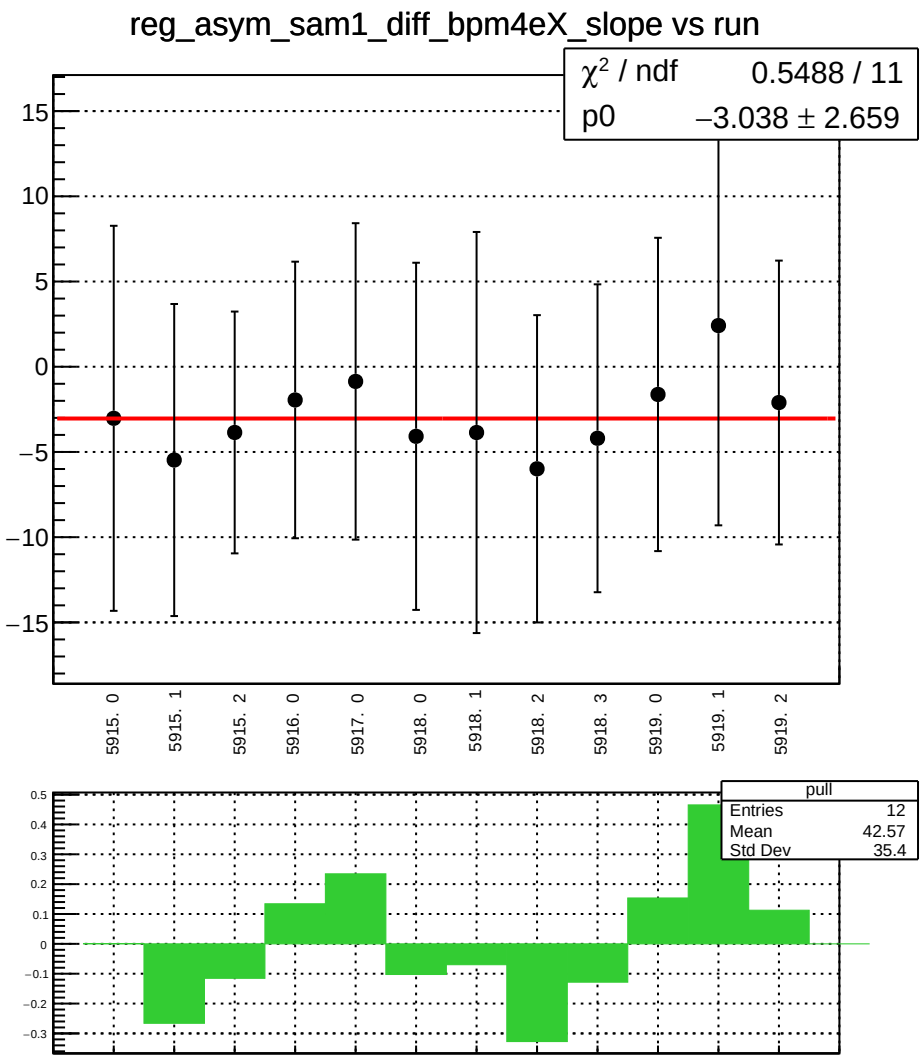

pull1D
Entries 12
Mean 0.02891
Std Dev 0.831
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

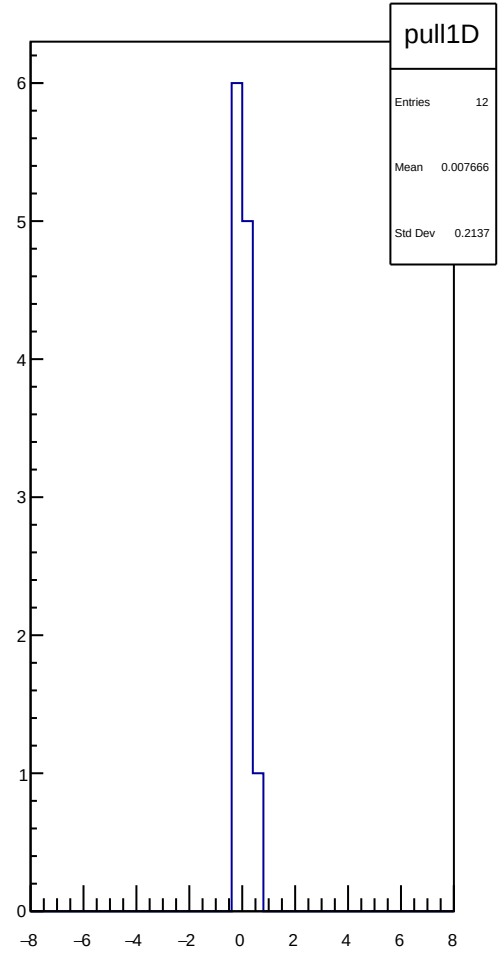

asym_sam_12345678_avg_rms vs run
χ² / ndf 401.1 / 11
p0 831.5 ± 1.59
920
900
880
860
840
820
800
780
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

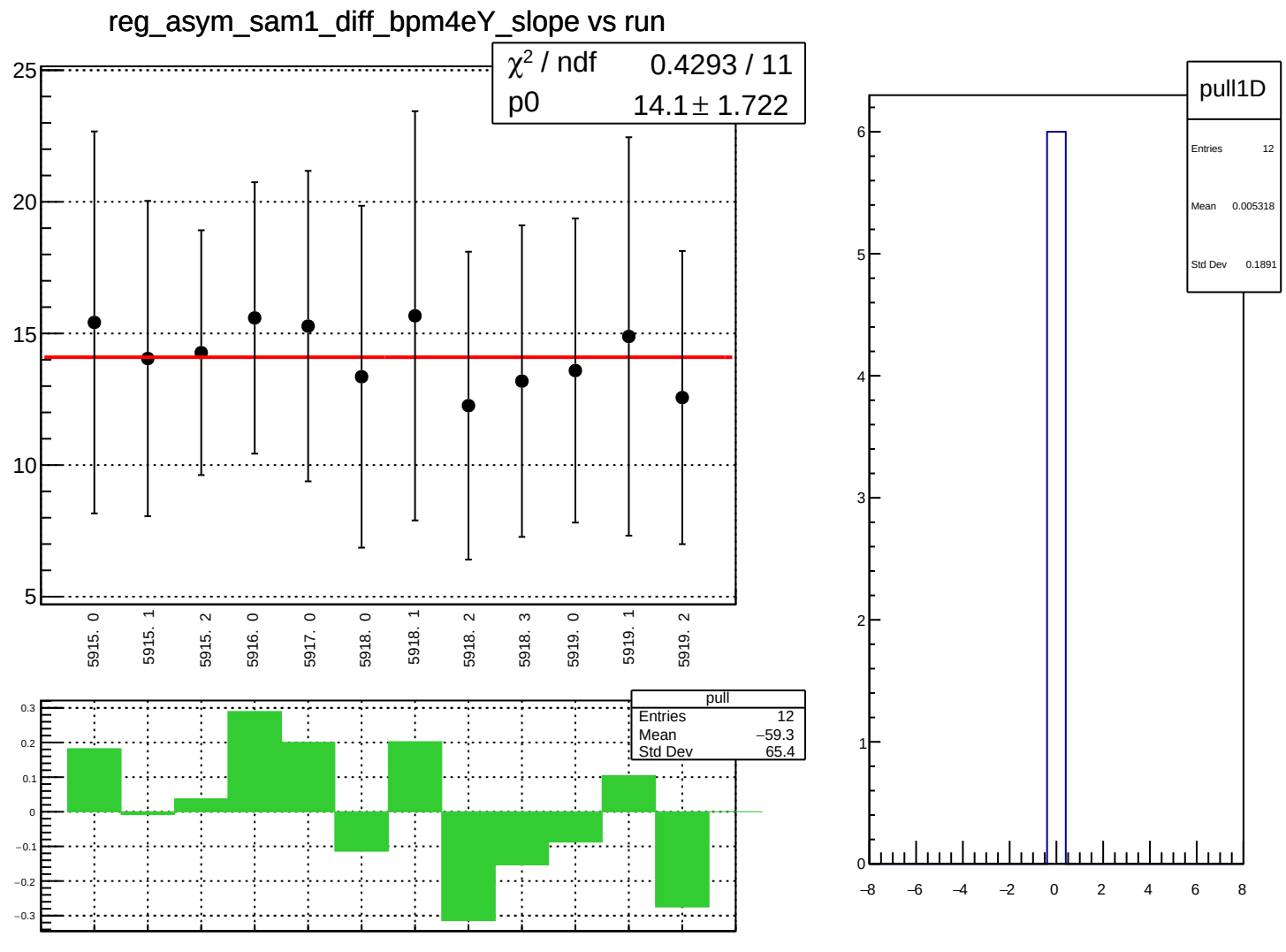

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 0.5334 / 11
p0 −9.063 ± 2.125
0
−5
−10
−15
−20
−25
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 37.92
Std Dev 30.61
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 12
Mean −0.007699
Std Dev 0.2107
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

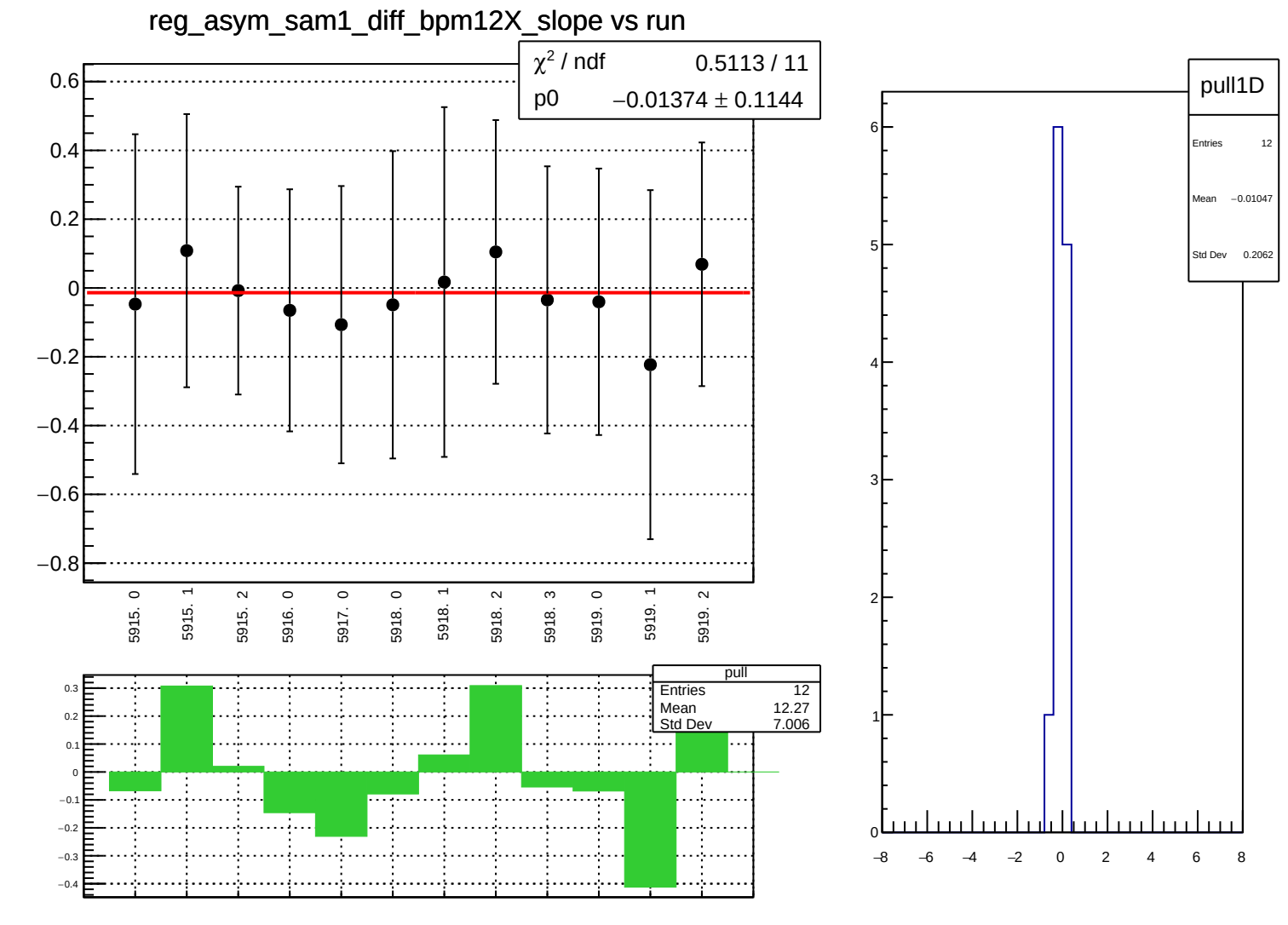

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 0.495 / 11
p0 −55.99 ± 1.583
−48
−50
−52
−54
−56
−58
−60
−62
−64
−66
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −32.82
Std Dev 40.42
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

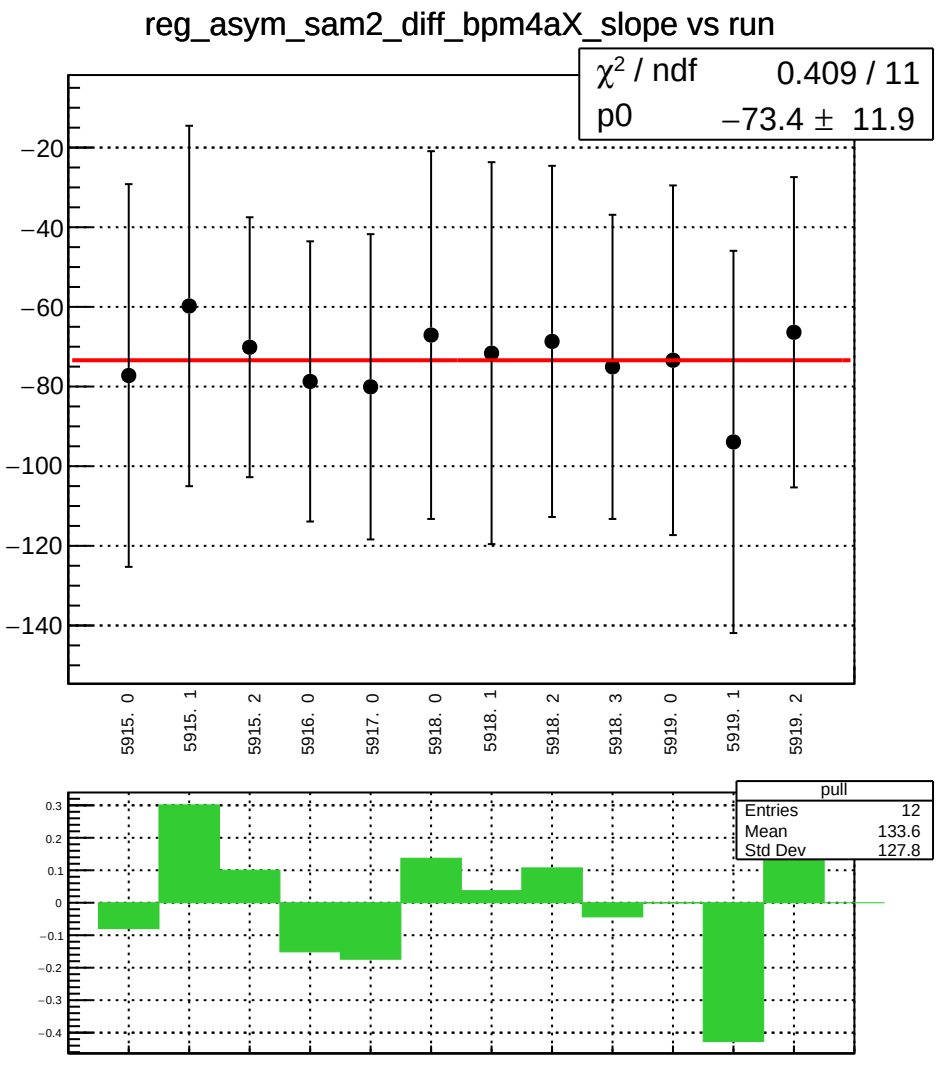

pull1D
Entries 12
Mean −0.005804
Std Dev 0.203
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

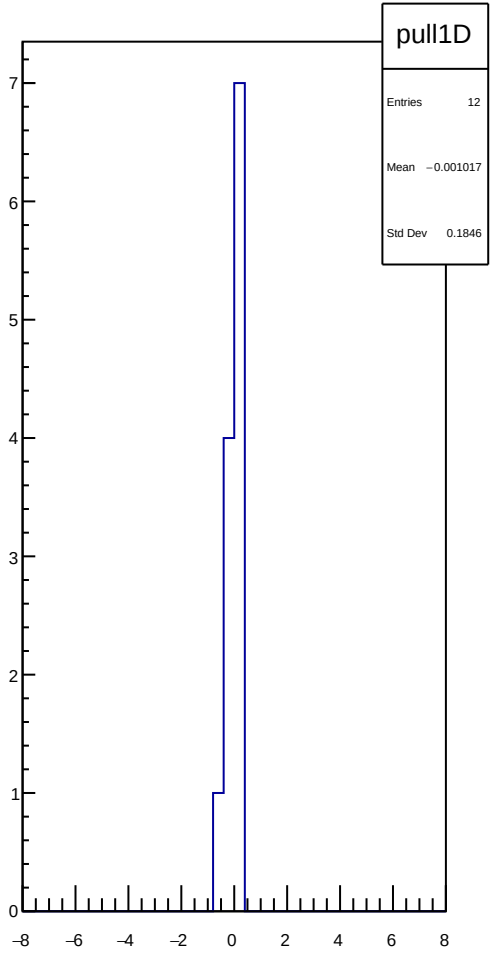

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 0.5488 / 11
p0 −3.038 ± 2.659
15
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 42.57
Std Dev 35.4
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

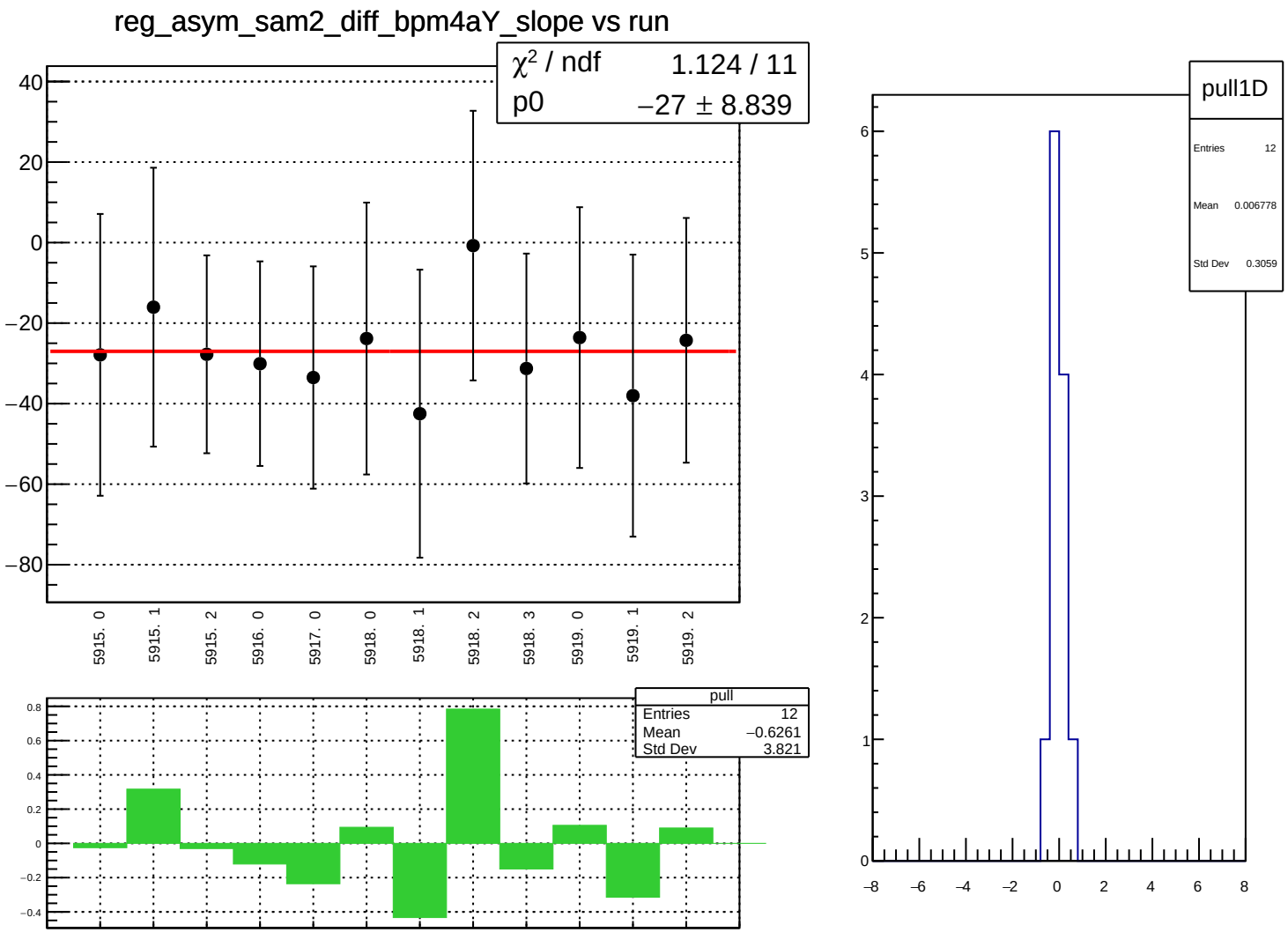

pull1D
Entries 12
Mean 0.007666
Std Dev 0.2137
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

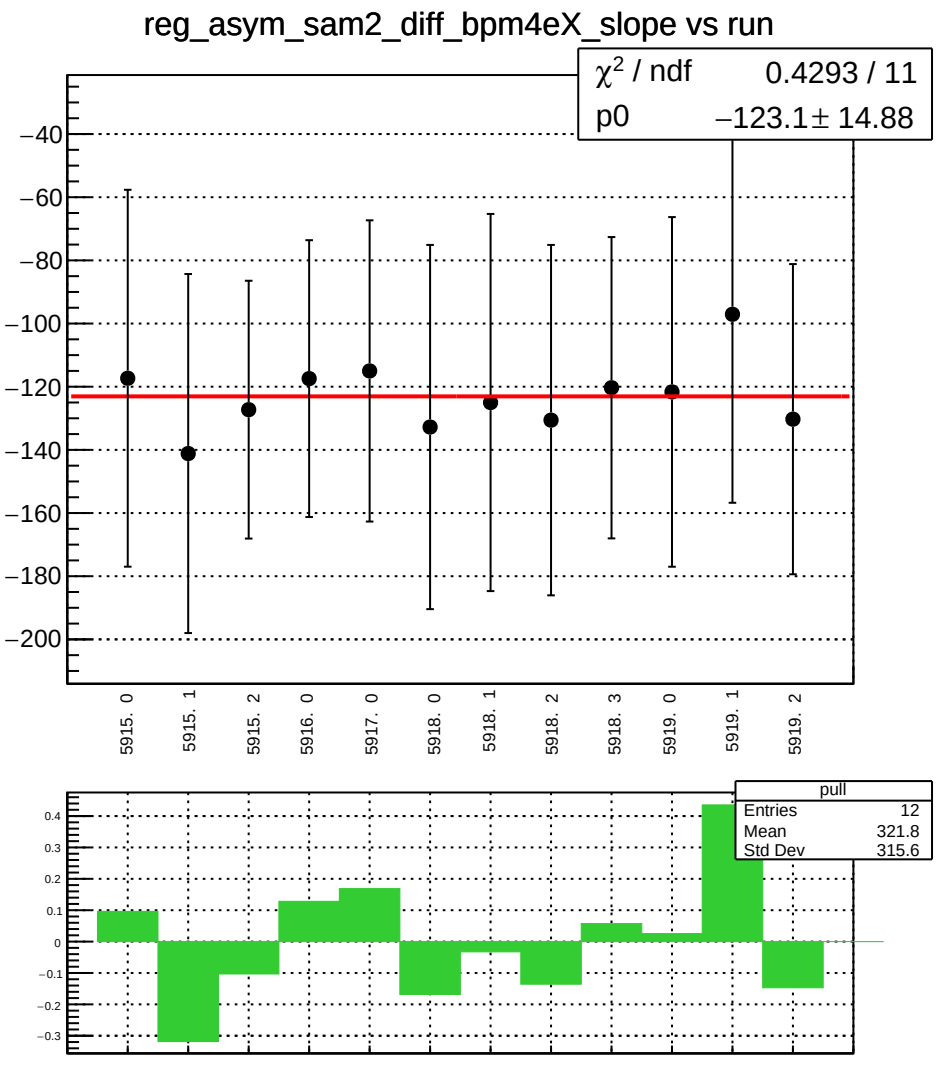

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 0.4293 / 11
p0 14.1 ± 1.722
25
20
15
10
5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −59.3
Std Dev 65.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.005318
Std Dev 0.1891
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

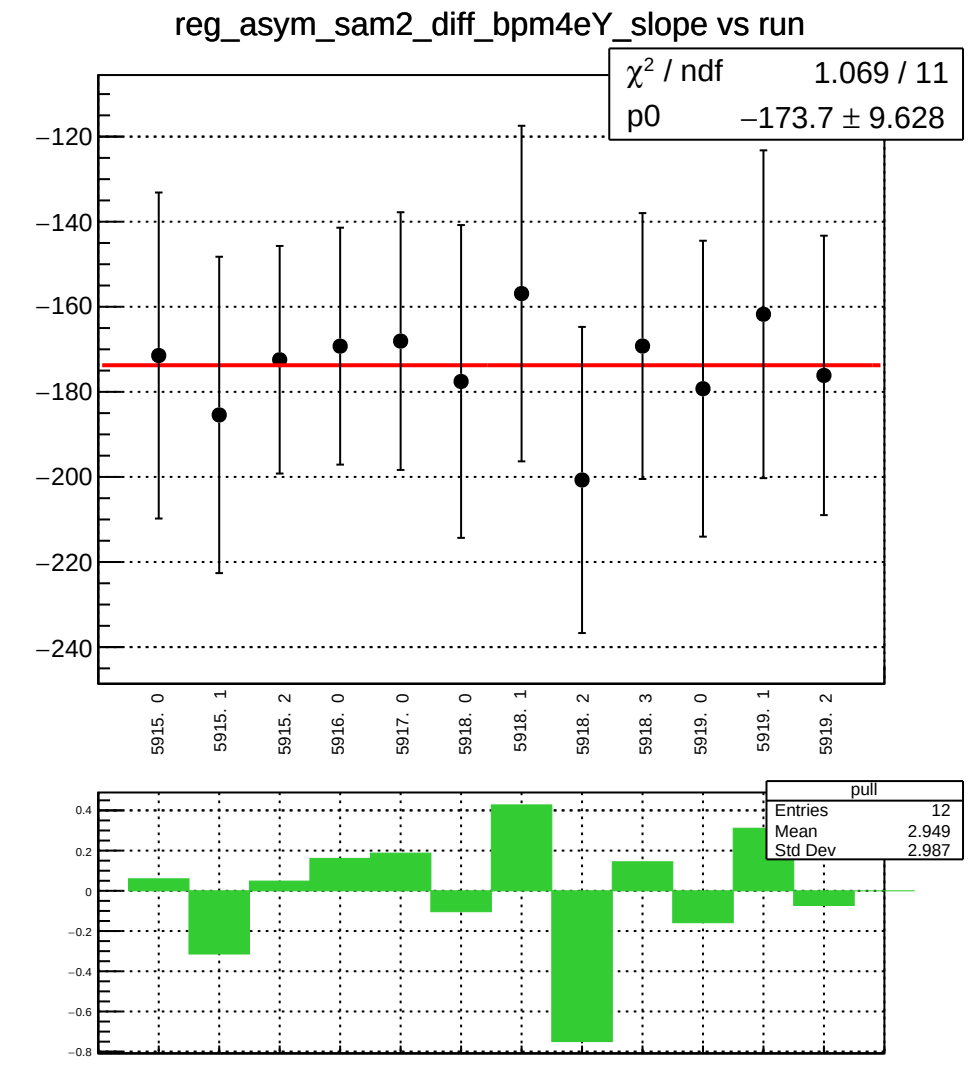

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 0.5113 / 11
p0 −0.01374 ± 0.1144
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.27
Std Dev 7.006
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 12
Mean −0.01047
Std Dev 0.2062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

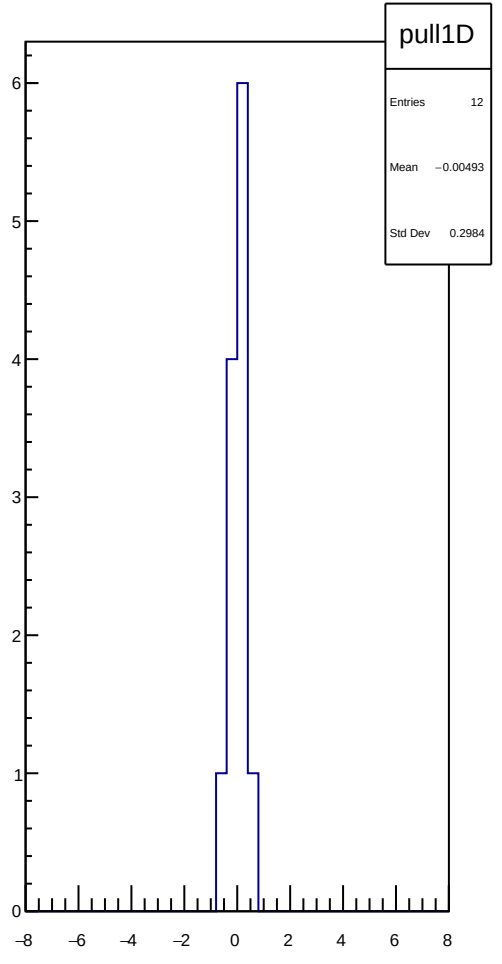

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 0.409 / 11
p0 −73.4 ± 11.9
−20
−40
−60
−80
−100
−120
−140
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 133.6
Std Dev 127.8
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

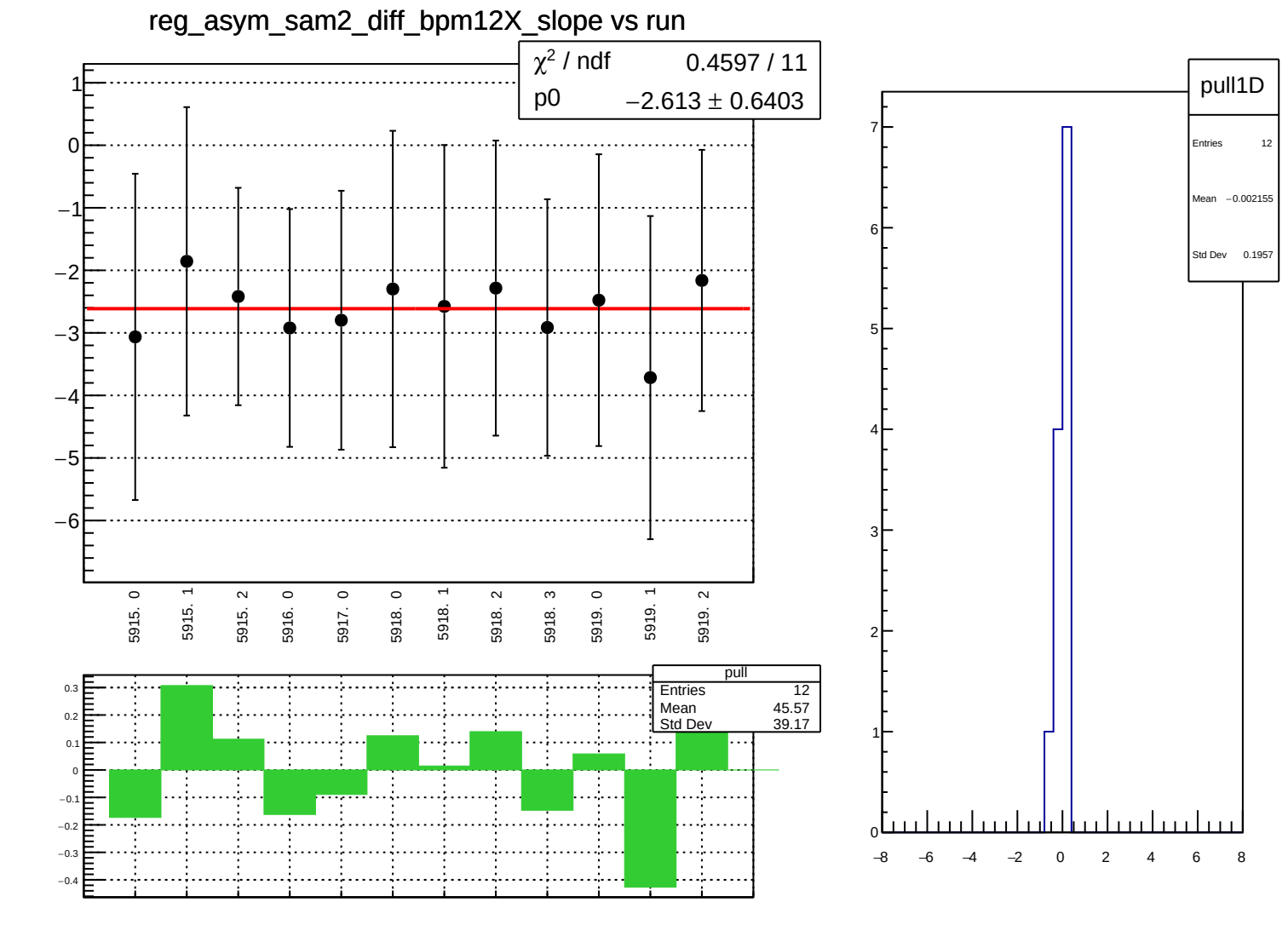

pull1D
Entries 12
Mean −0.001017
Std Dev 0.1846
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

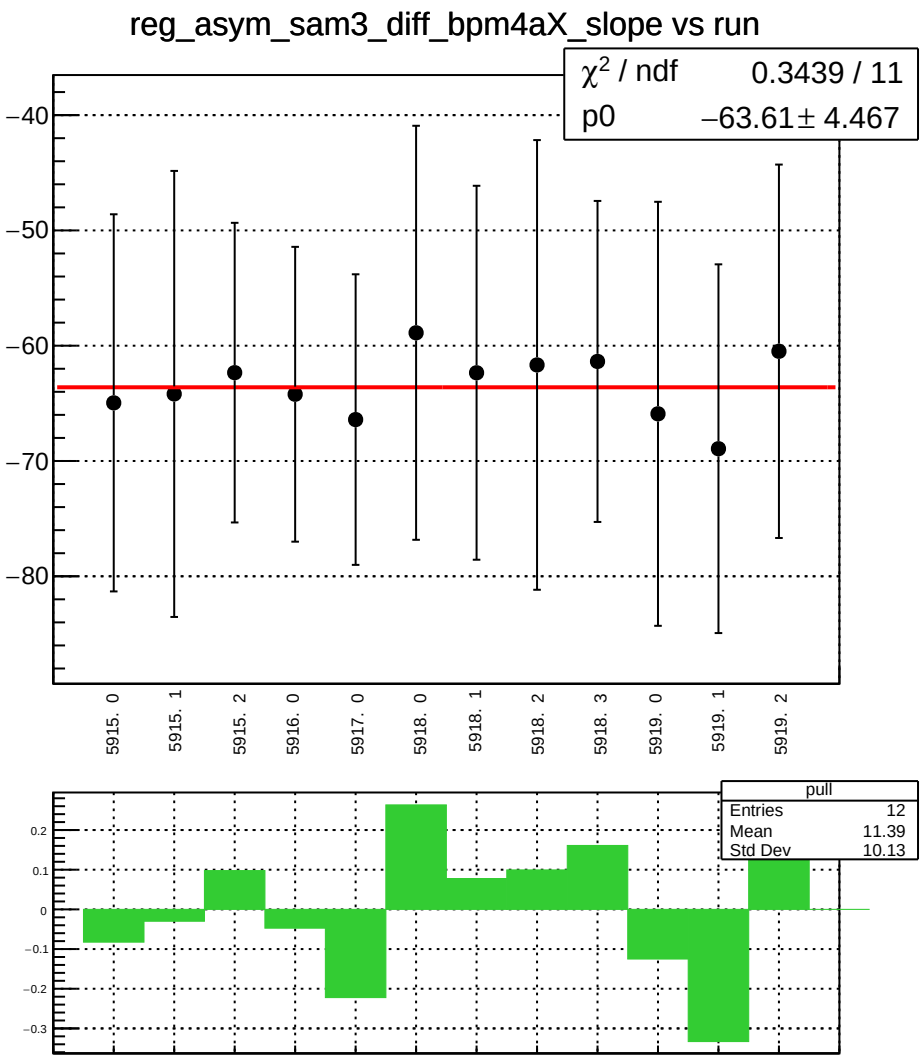

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.124 / 11
p0 −27 ± 8.839
40
20
0
−20
−40
−60
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −0.6261
Std Dev 3.821
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 12
Mean 0.006778
Std Dev 0.3059
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

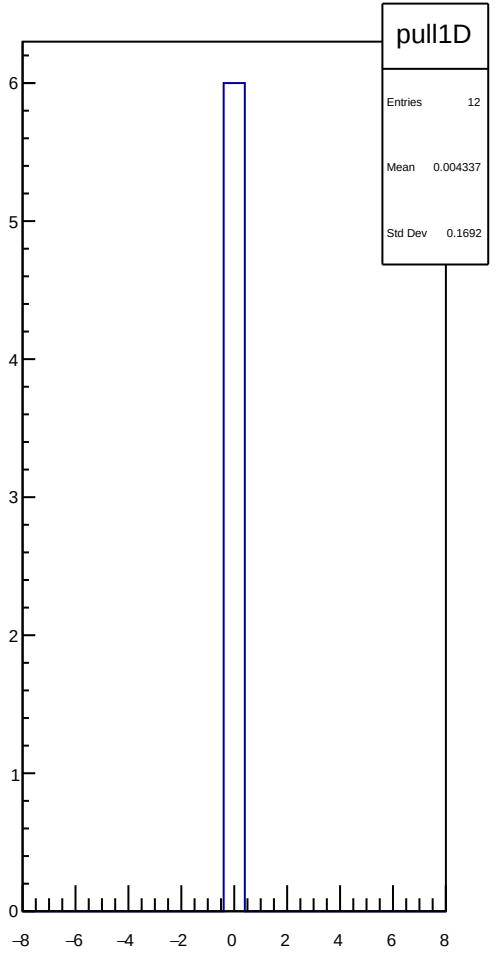

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.4293 / 11
p0 −123.1± 14.88
−40
−60
−80
−100
−120
−140
−160
−180
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 321.8
Std Dev 315.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.0005116
Std Dev 0.1892
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

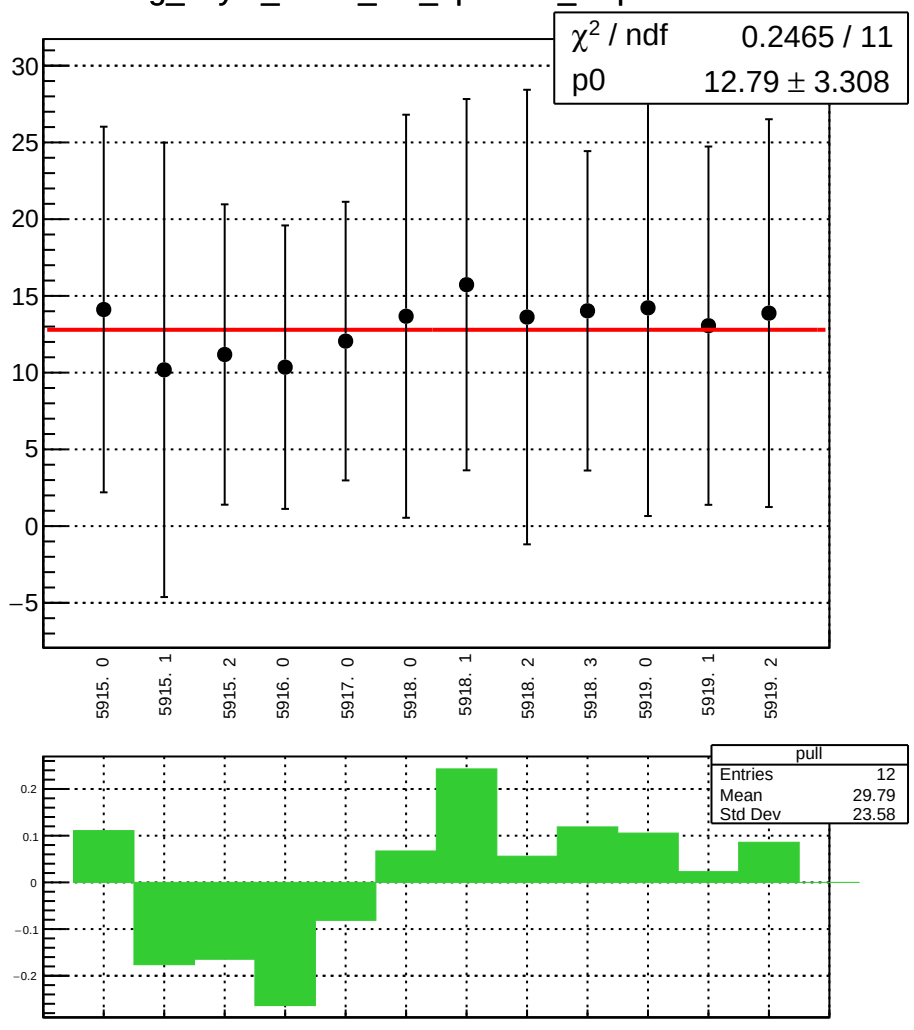

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.069 / 11
p0 −173.7 ± 9.628
−120
−140
−160
−180
−200
−220
−240
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 2.949
Std Dev 2.987
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

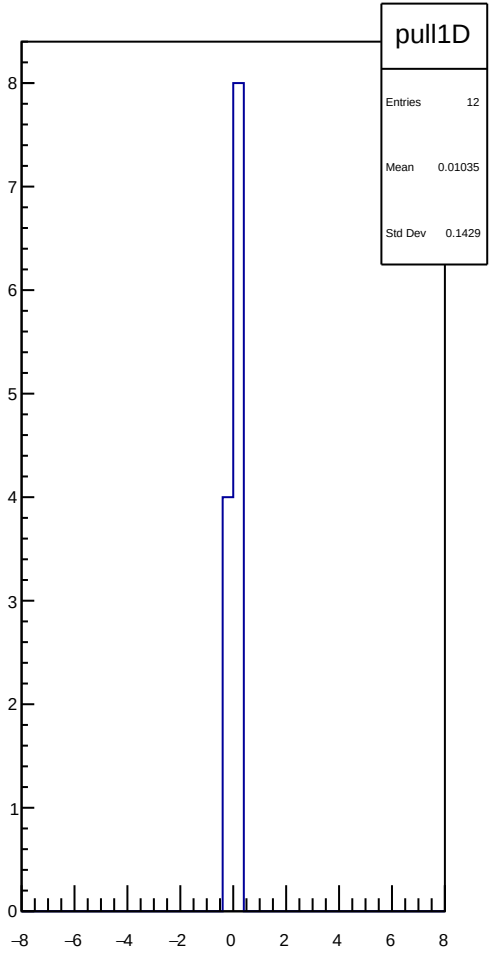

pull1D
Entries 12
Mean −0.00493
Std Dev 0.2984
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

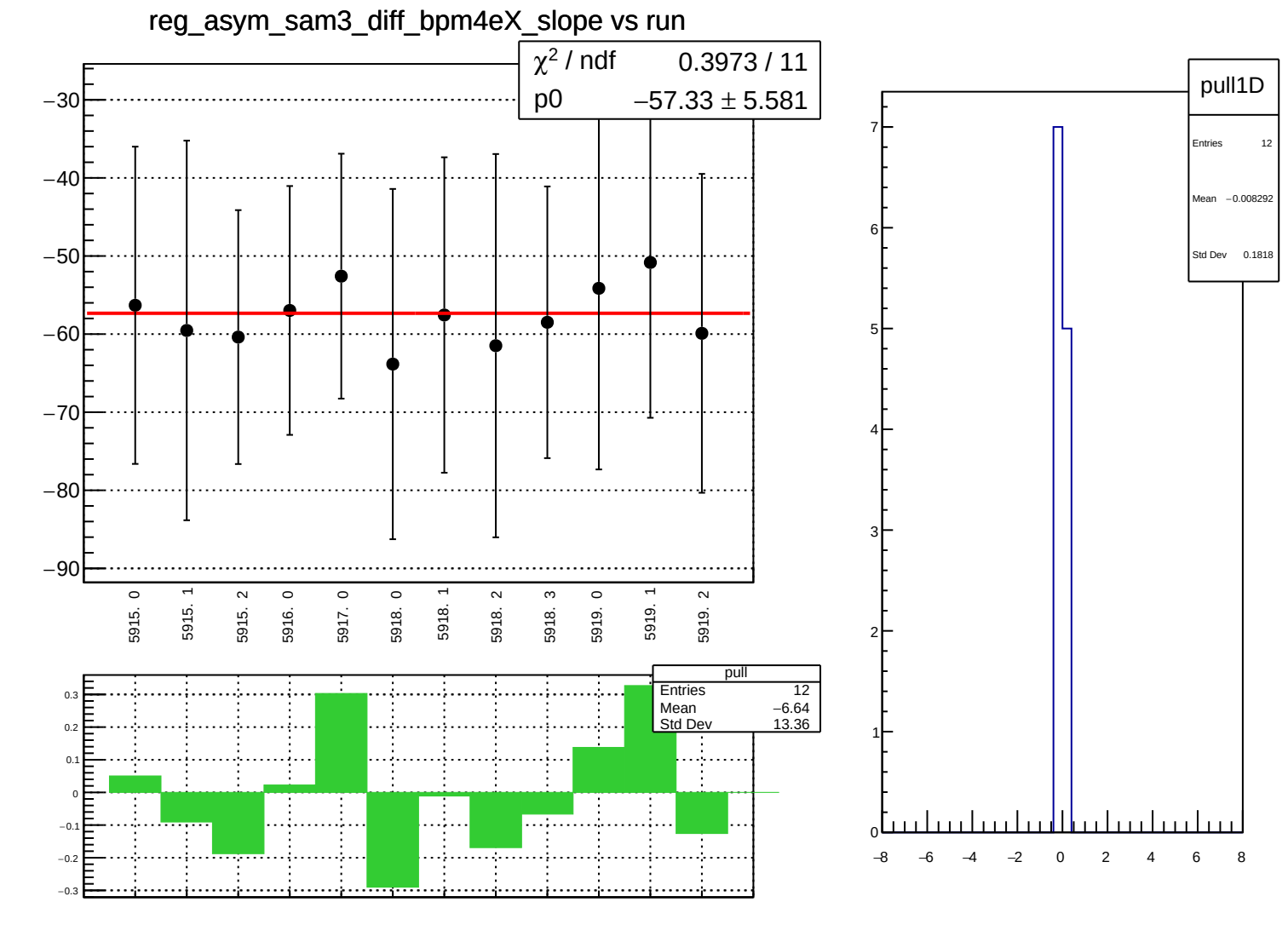

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.4597 / 11
p0 −2.613 ± 0.6403
1
0
−1
−2
−3
−4
−5
−6
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 45.57
Std Dev 39.17
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 12
Mean −0.002155
Std Dev 0.1957
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

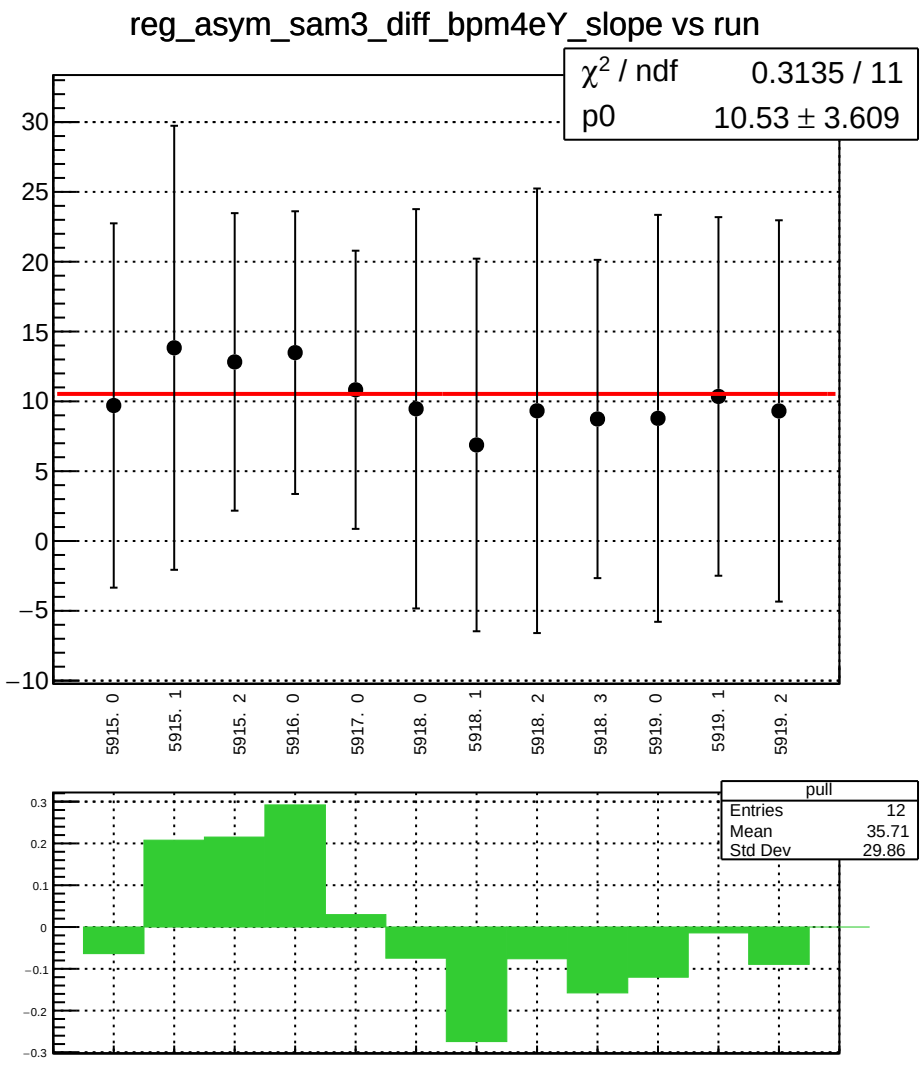

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 0.3439 / 11
p0 −63.61 ± 4.467
−40
−50
−60
−70
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.39
Std Dev 10.13
0.2
0.1
0
−0.1
−0.2
−0.3

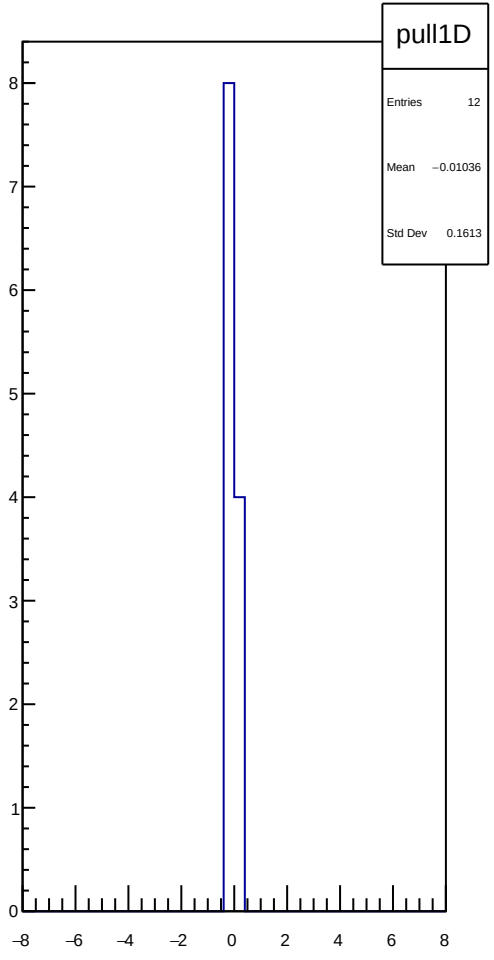

pull1D
Entries 12
Mean 0.004337
Std Dev 0.1692
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

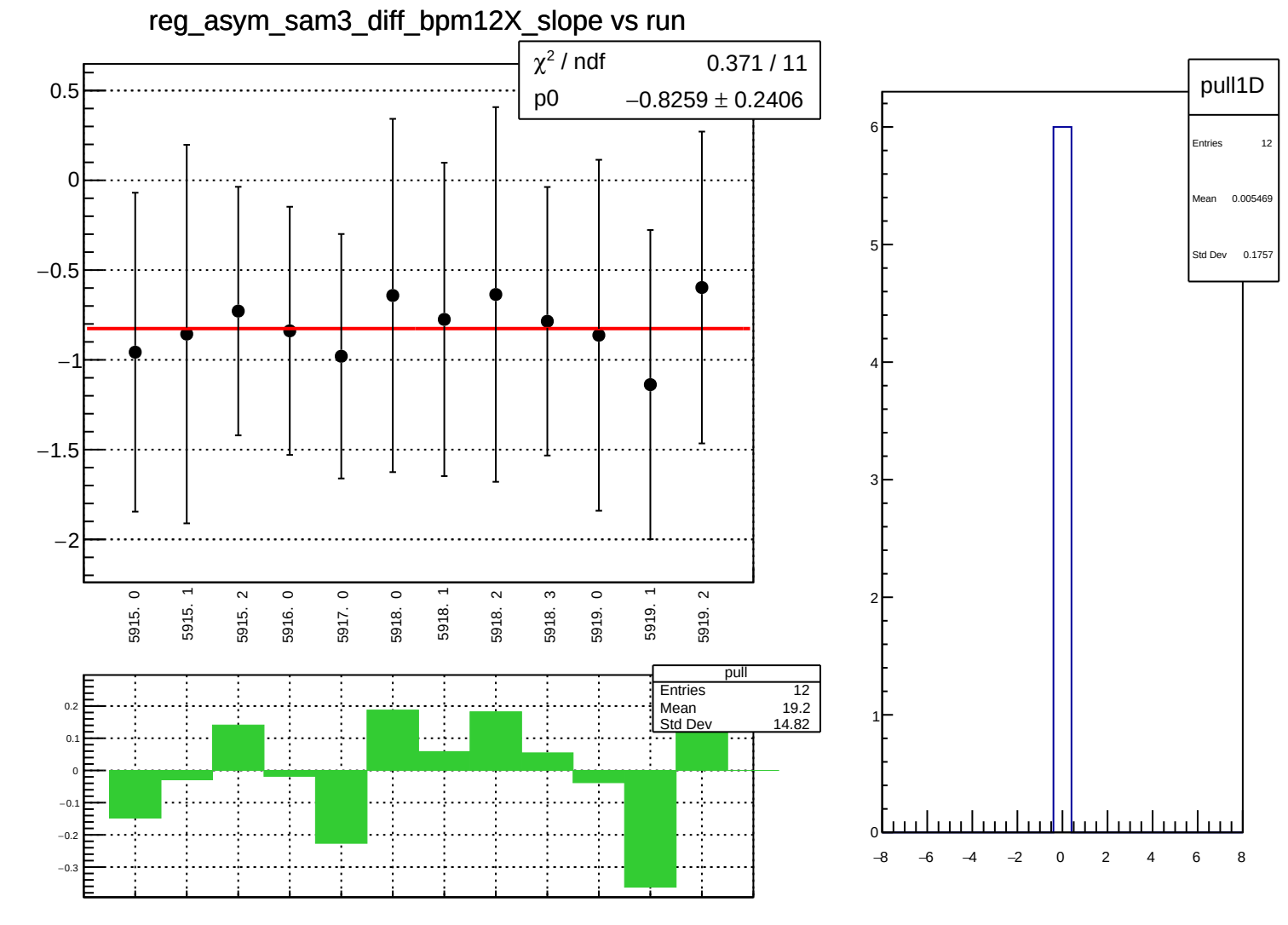

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.2465 / 11
p0 12.79 ± 3.308
30
25
20
15
10
5
0
−5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 29.79
Std Dev 23.58
0.2
0.1
0
−0.1
−0.2

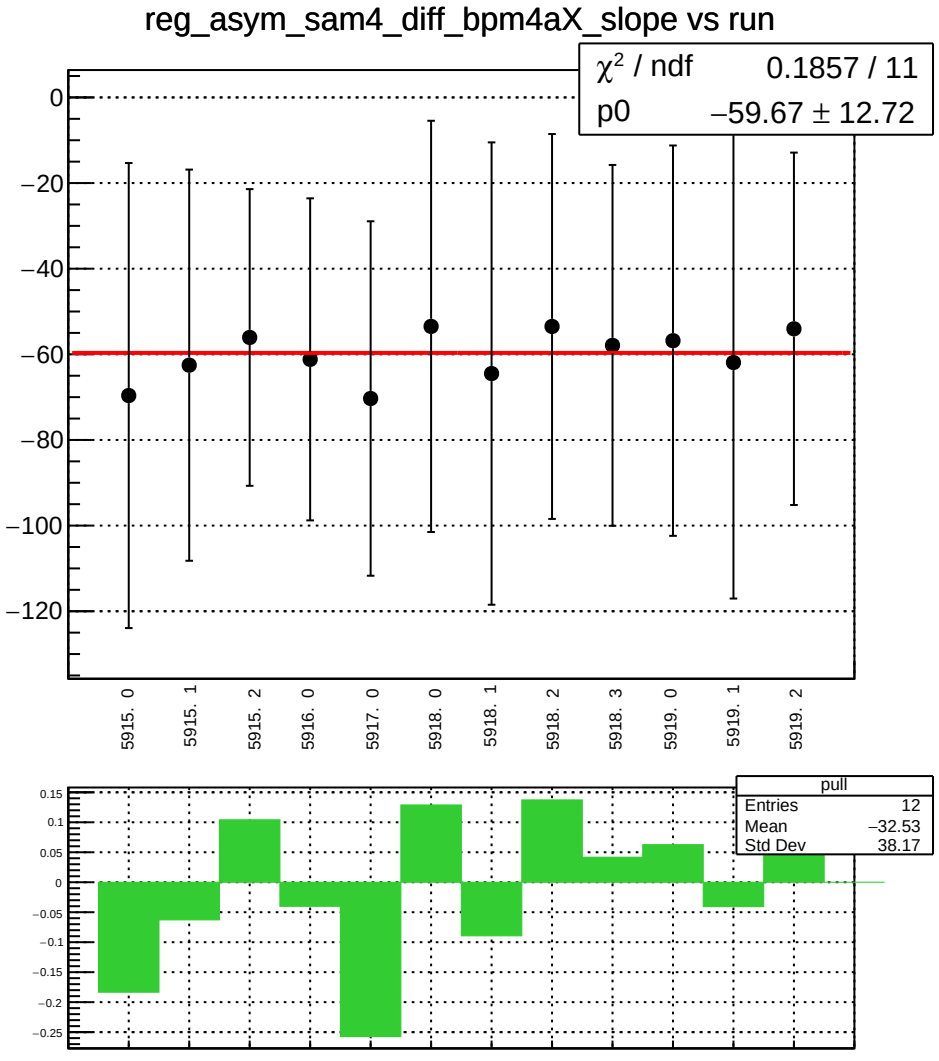

pull1D
Entries 12
Mean 0.01035
Std Dev 0.1429
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

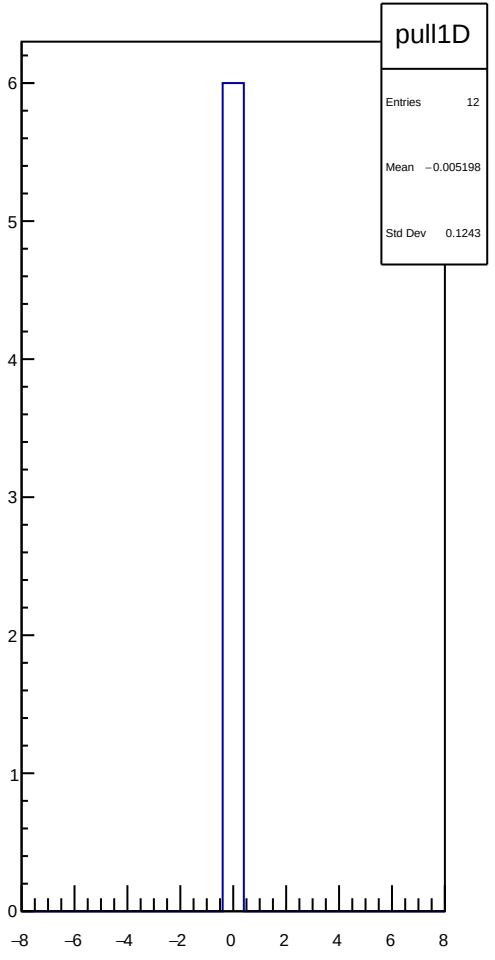

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0.3973 / 11
p0 −57.33 ± 5.581
−30
−40
−50
−60
−70
−80
−90
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −6.64
Std Dev 13.36
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.008292
Std Dev 0.1818
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

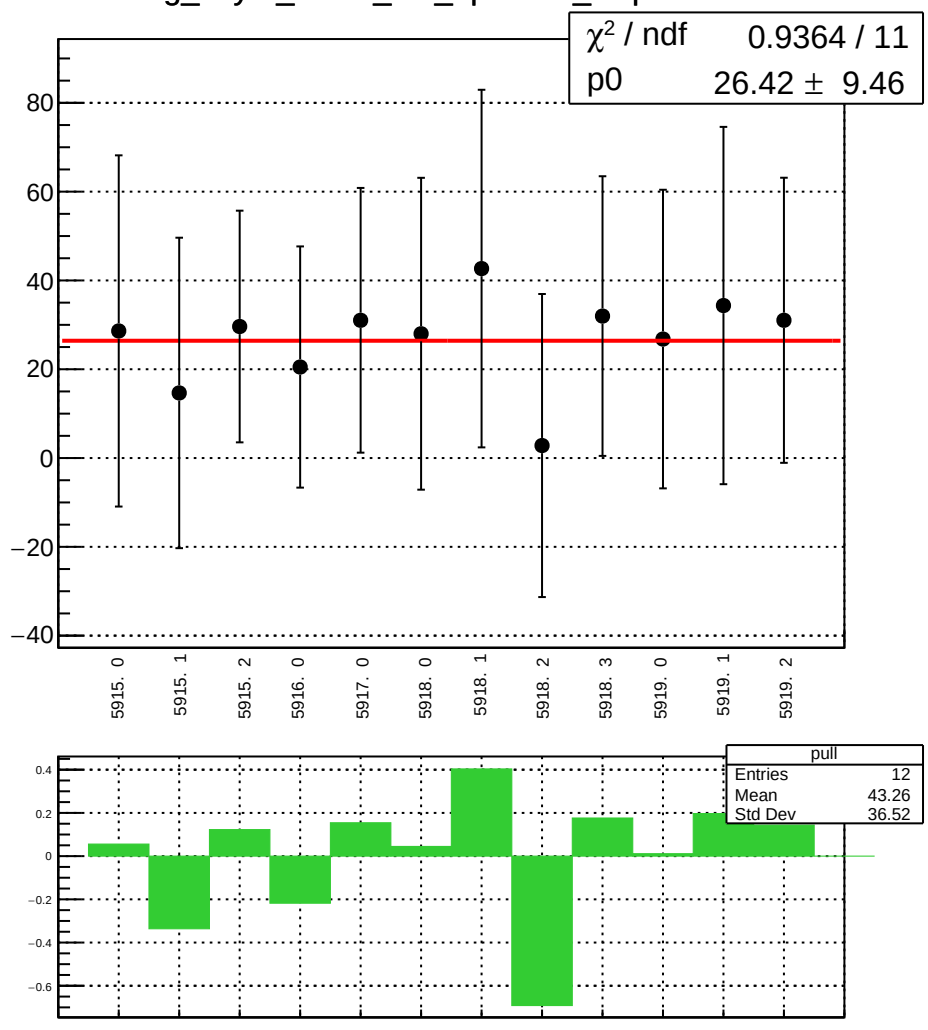

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.3135 / 11
p0 10.53 ± 3.609
30
25
20
15
10
5
0
−5
−10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 35.71
Std Dev 29.86
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

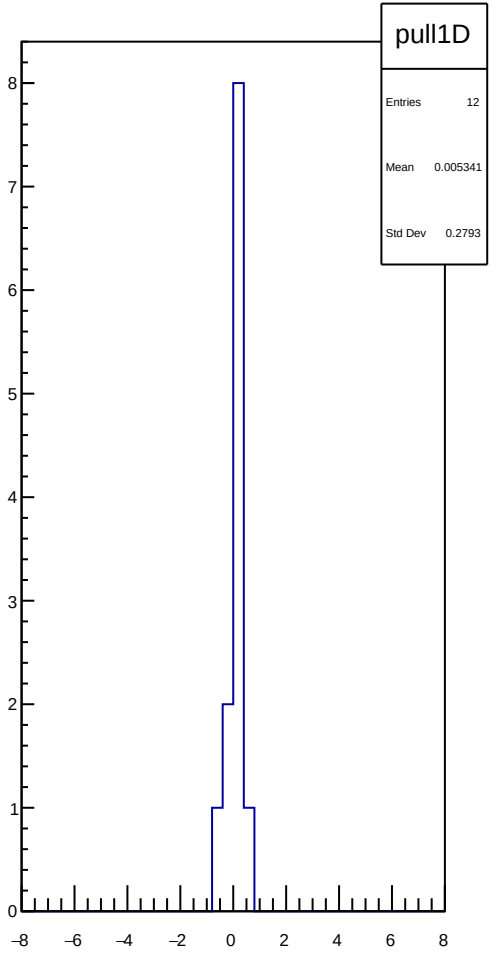

pull1D
Entries 12
Mean −0.01036
Std Dev 0.1613
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

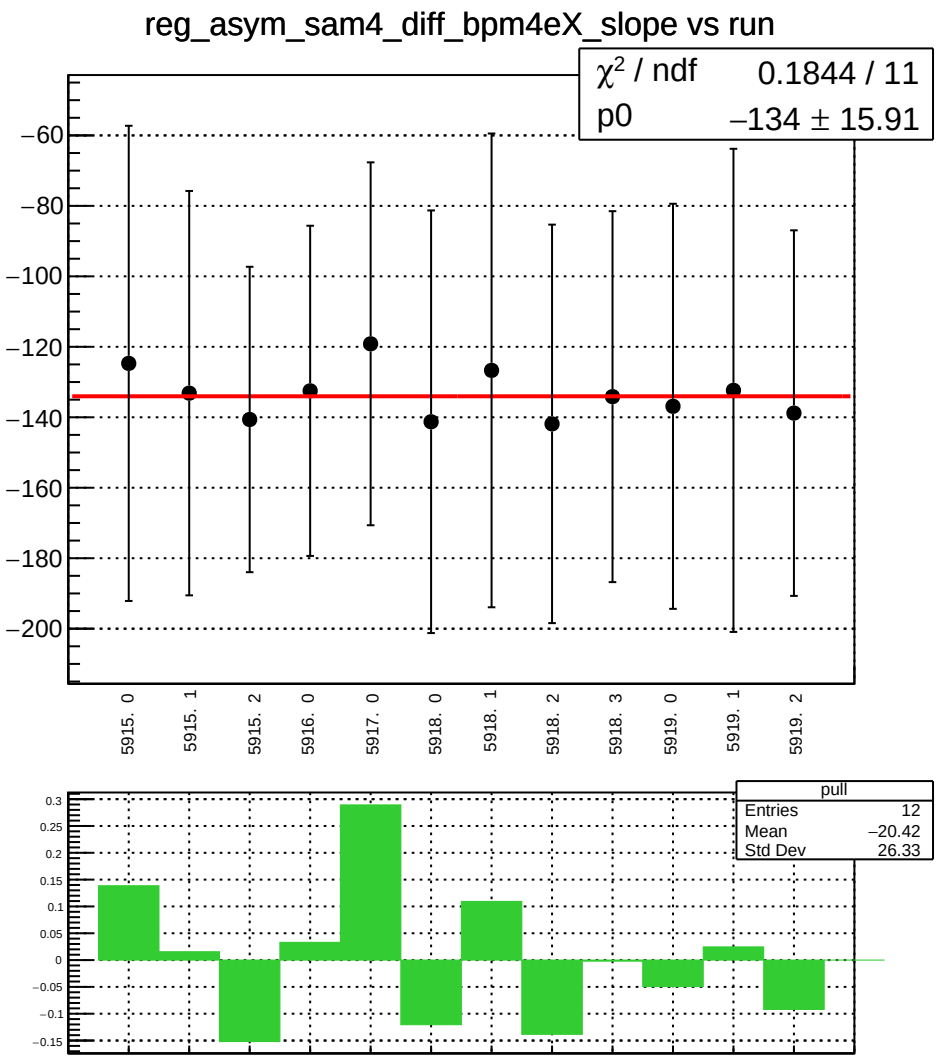

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.371 / 11
p0 −0.8259 ± 0.2406
0.5
0
−0.5
−1
−1.5
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.2
Std Dev 14.82
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.005469
Std Dev 0.1757
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

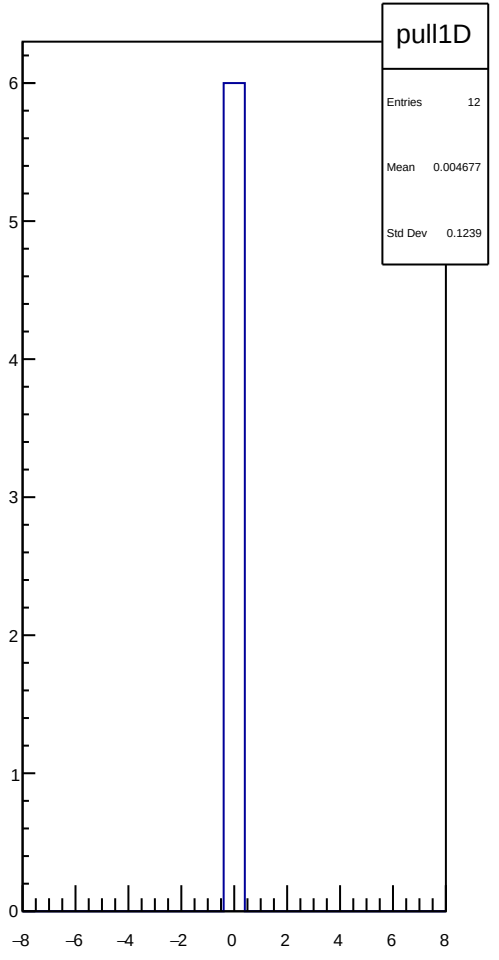

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 0.1857 / 11
p0 −59.67 ± 12.72
0
−20
−40
−60
−80
−100
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −32.53
Std Dev 38.17
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

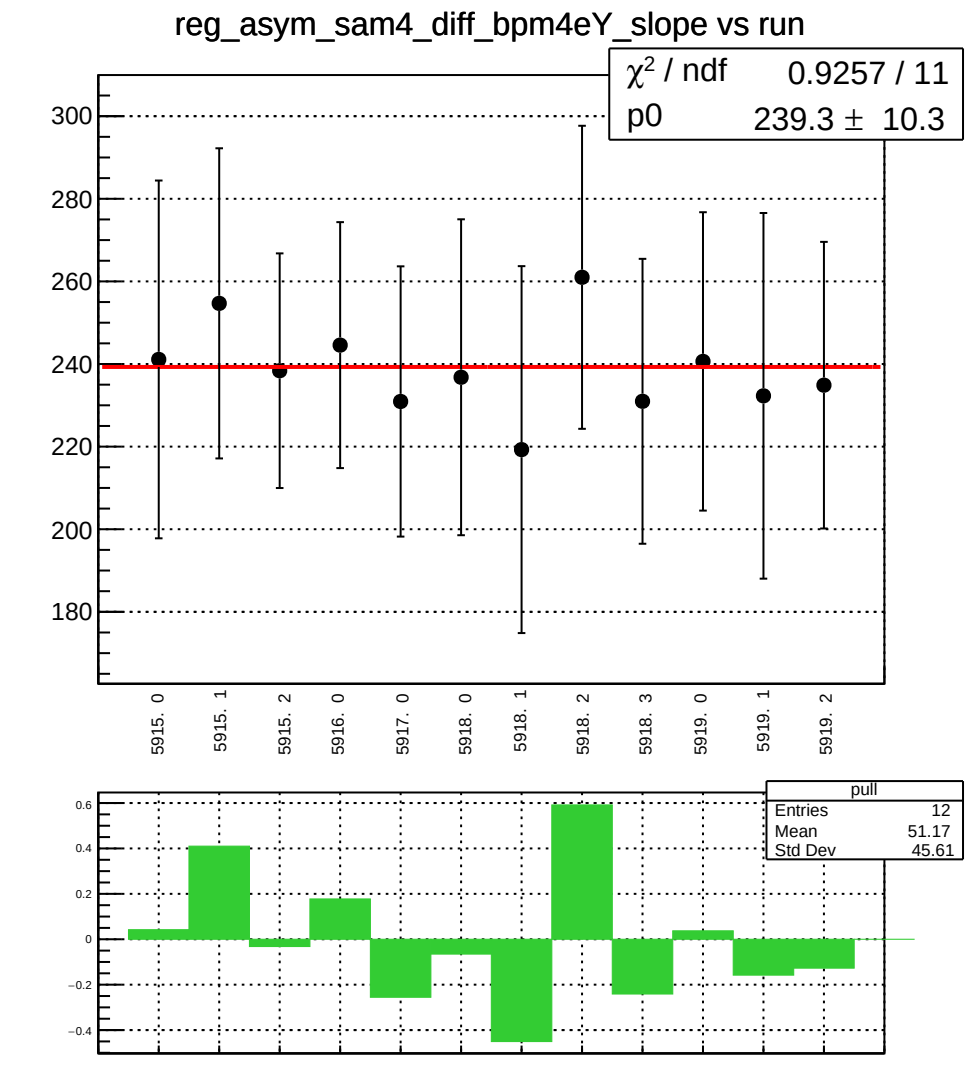

pull1D
Entries 12
Mean −0.005198
Std Dev 0.1243
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

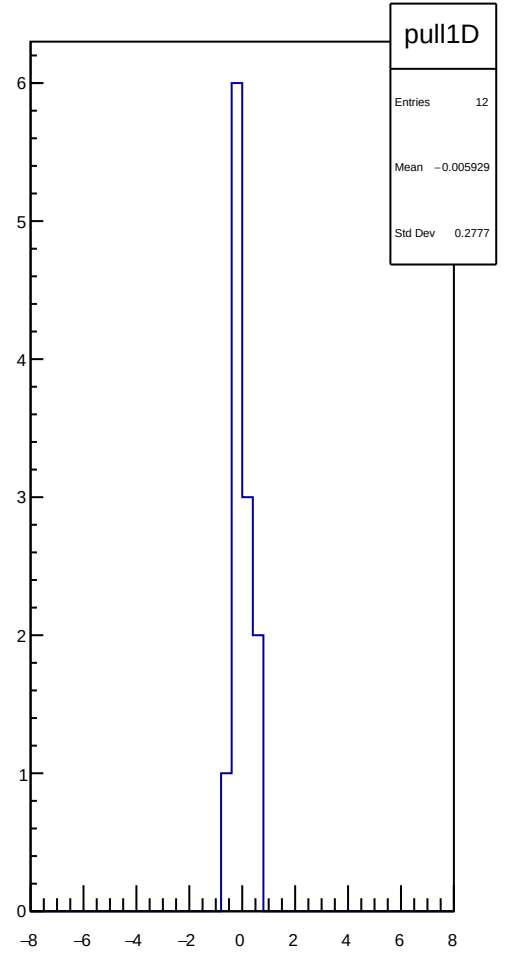

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0.9364 / 11
p0 26.42 ± 9.46
80
60
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 43.26
Std Dev 36.52
0.4
0.2
0
−0.2
−0.4
−0.6

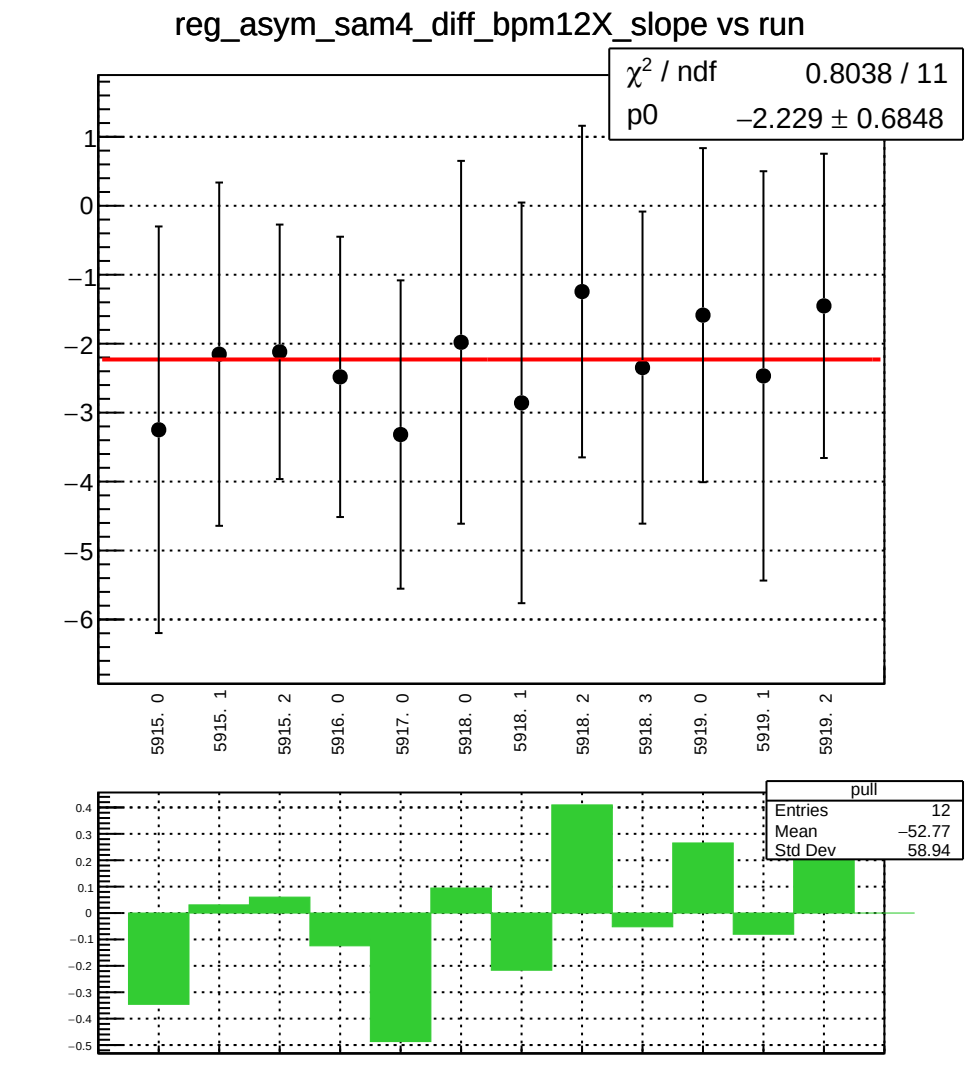

pull1D
Entries 12
Mean 0.005341
Std Dev 0.2793
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

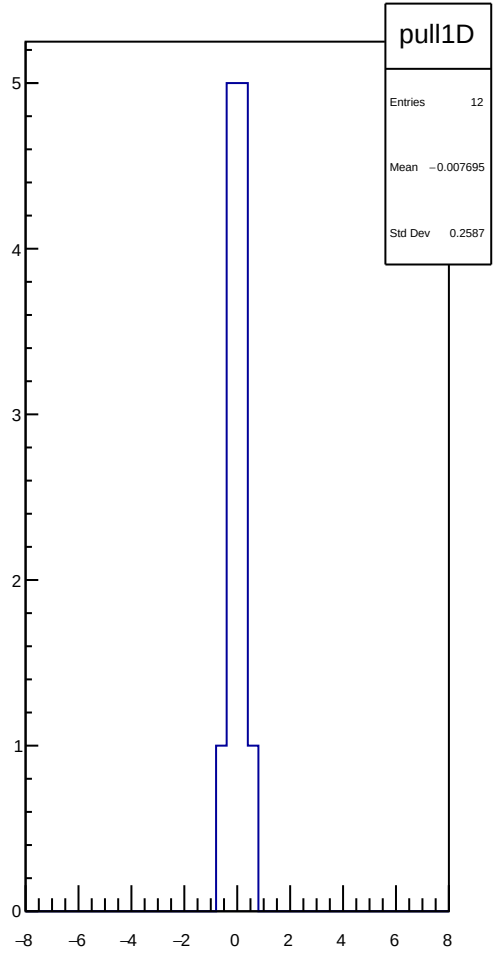

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.1844 / 11
p0 −134 ± 15.91
−60
−80
−100
−120
−140
−160
−180
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −20.42
Std Dev 26.33
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

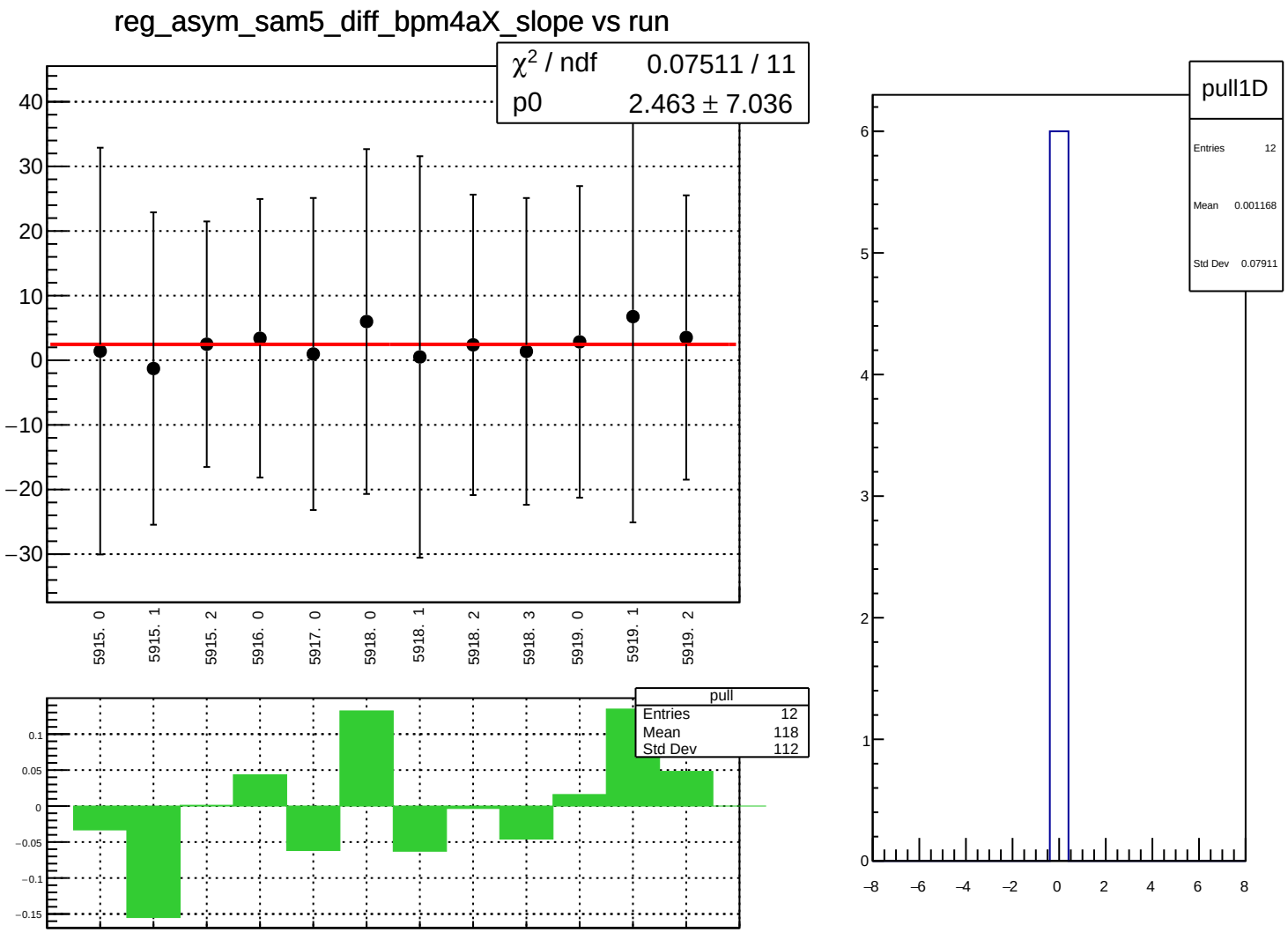

pull1D
Entries 12
Mean 0.004677
Std Dev 0.1239
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

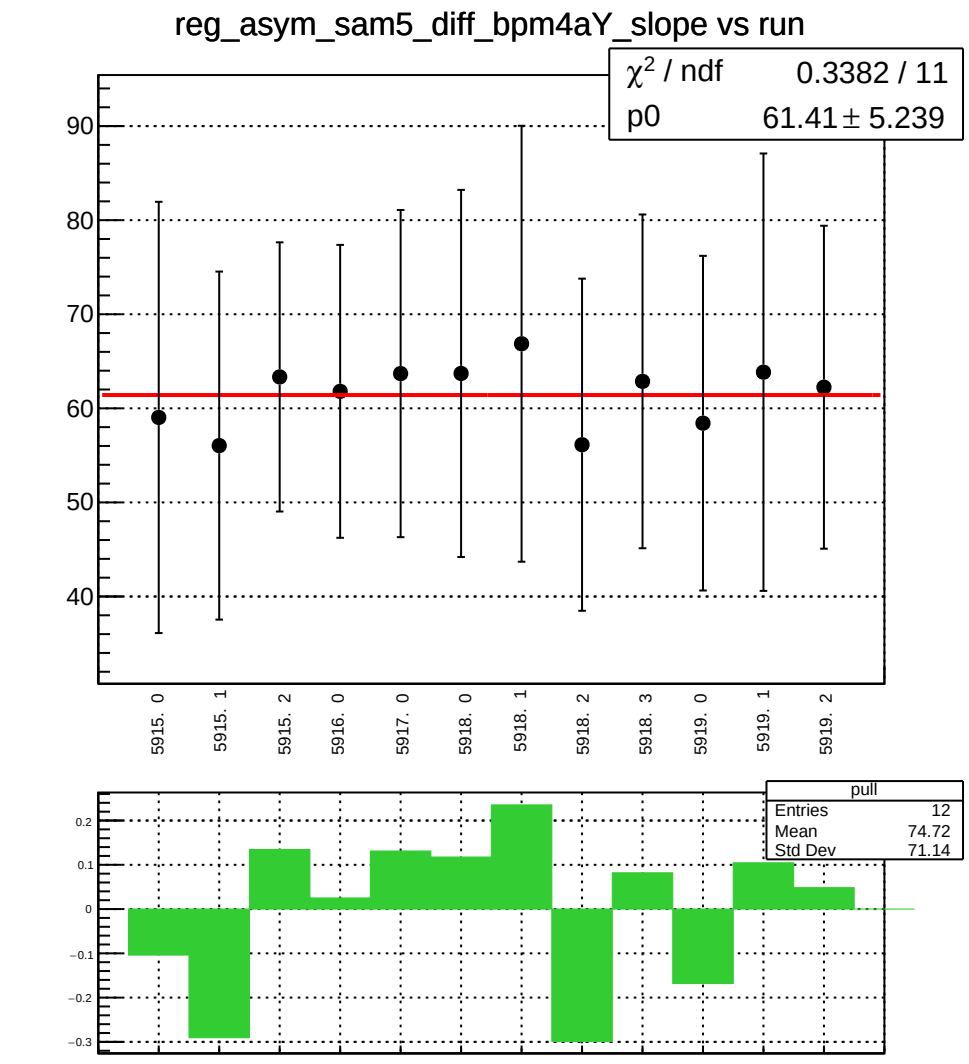

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.9257 / 11
p0 239.3 ± 10.3
300
280
260
240
220
200
180
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 51.17
Std Dev 45.61
0.6
0.4
0.2
0
−0.2
−0.4

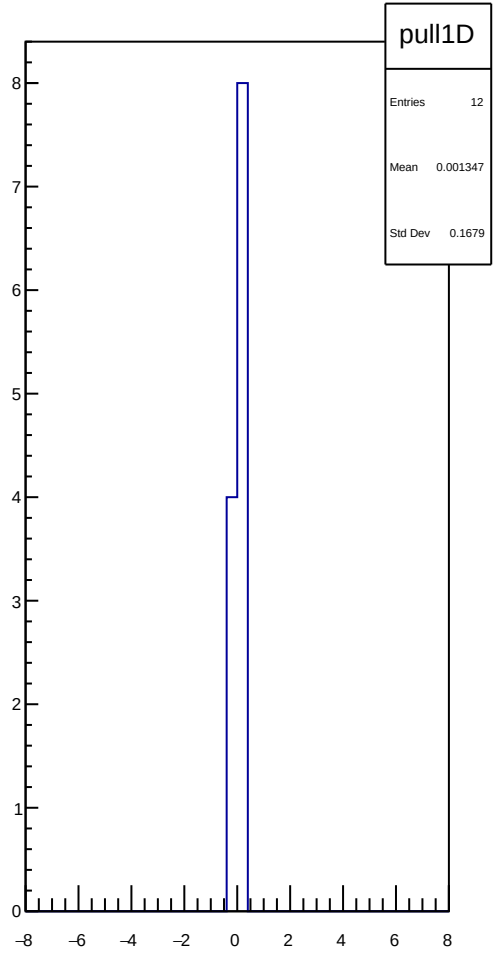

pull1D
Entries 12
Mean −0.005929
Std Dev 0.2777
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

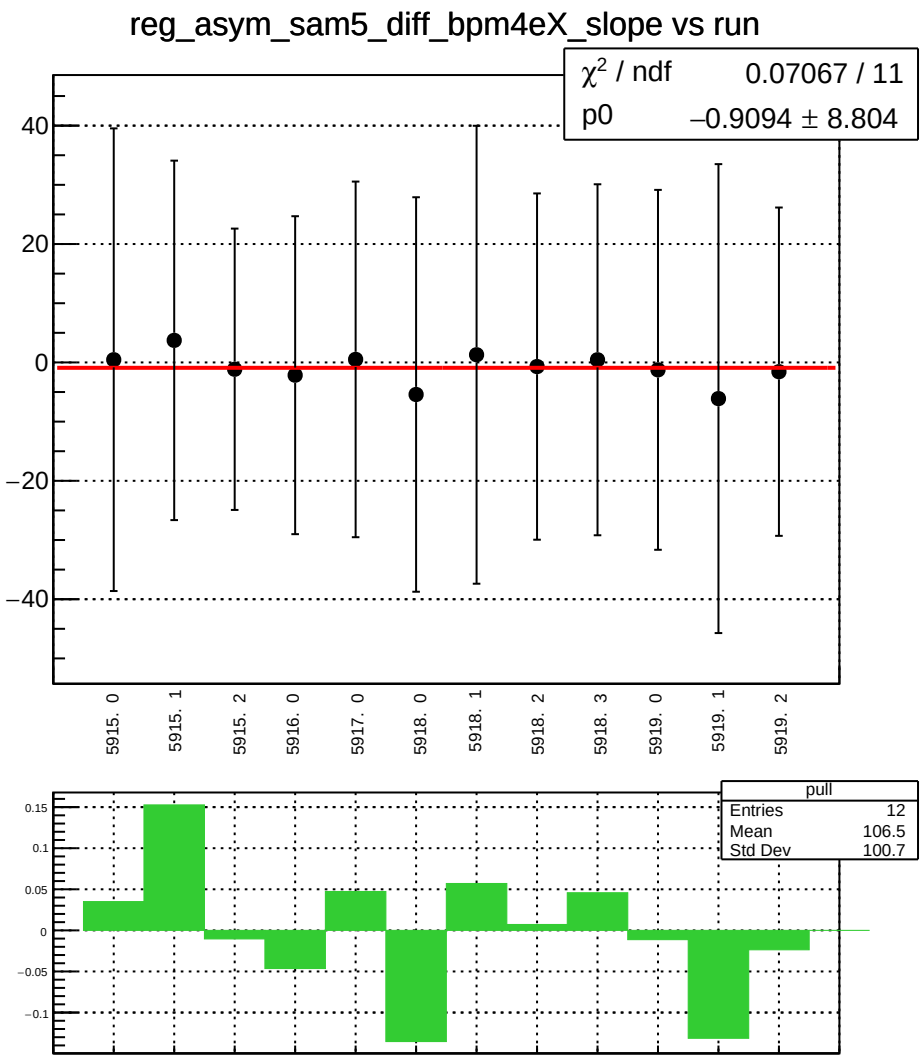

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.8038 / 11
p0 −2.229 ± 0.6848
1
0
−1
−2
−3
−4
−5
−6
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −52.77
Std Dev 58.94
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

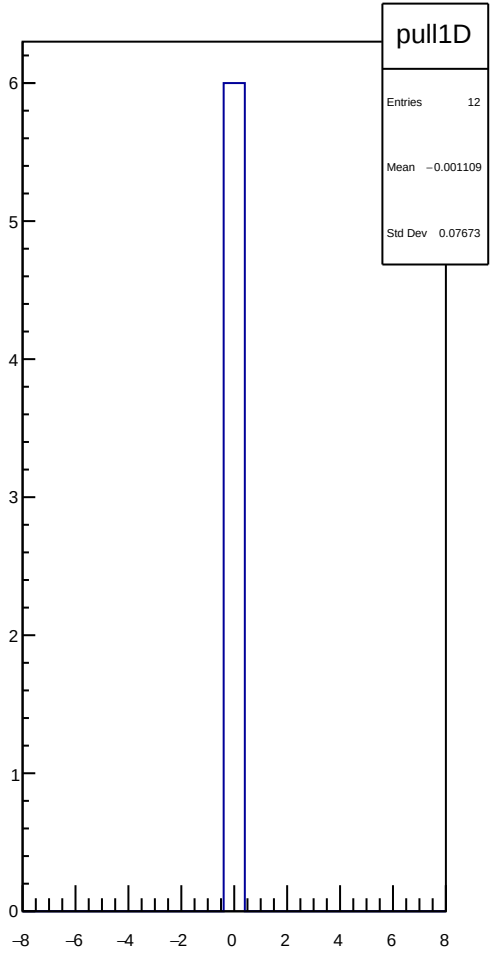

pull1D
Entries 12
Mean −0.007695
Std Dev 0.2587
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

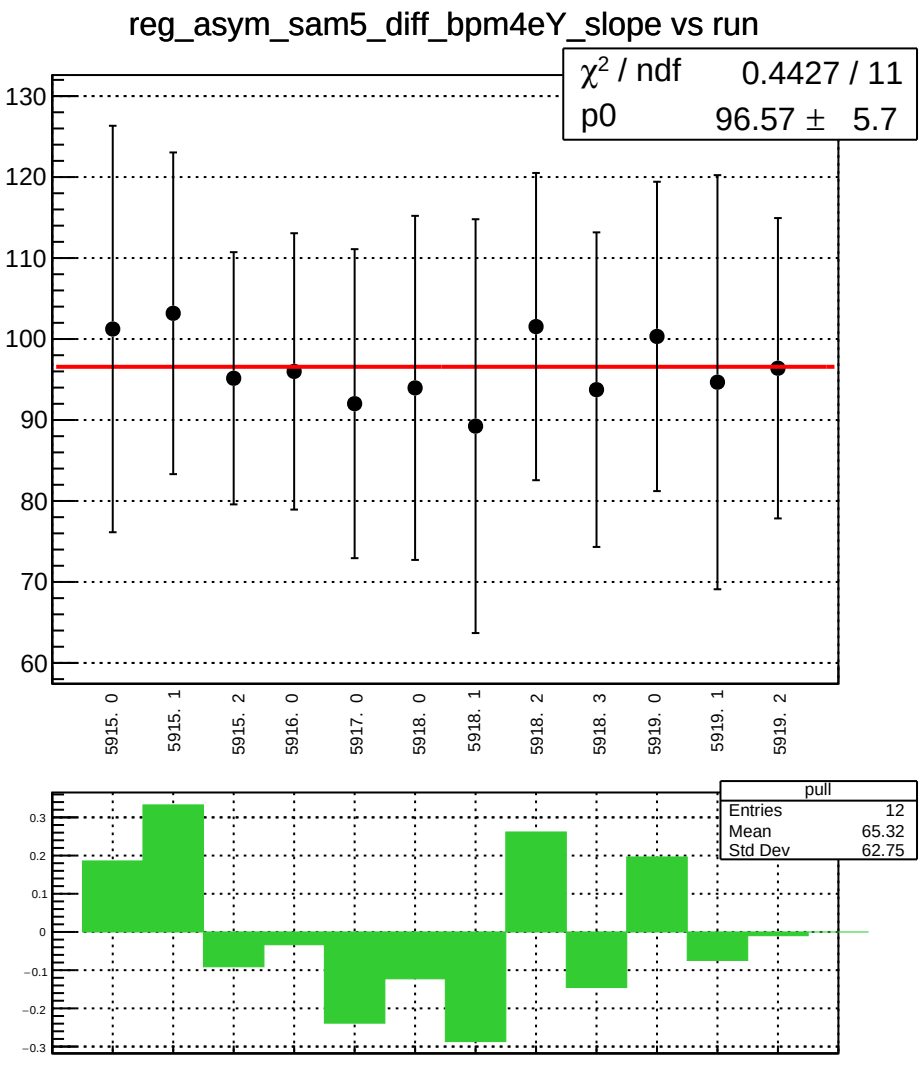

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 0.07511 / 11
p0 2.463 ± 7.036
40
30
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 118
Std Dev 112
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 12
Mean 0.001168
Std Dev 0.07911
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

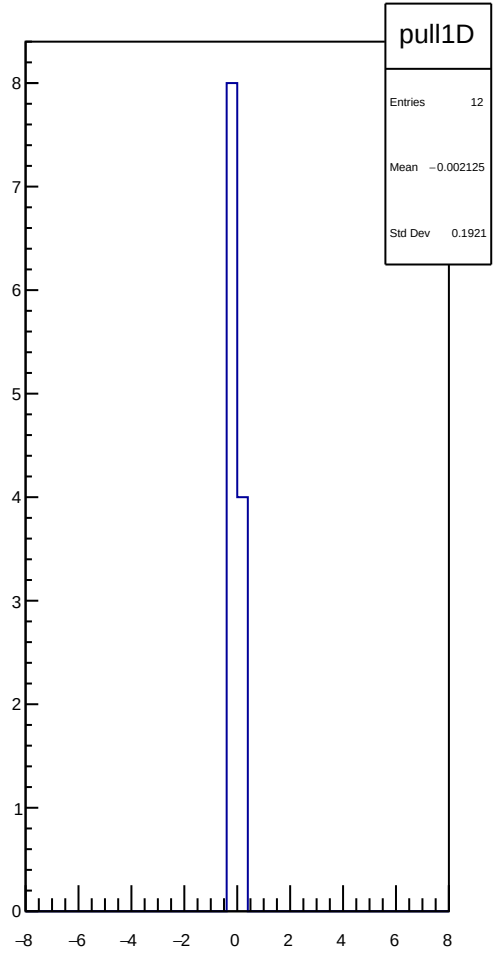

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 0.3382 / 11
p0 61.41 ± 5.239
90
80
70
60
50
40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 74.72
Std Dev 71.14
0.2
0.1
0
−0.1
−0.2
−0.3

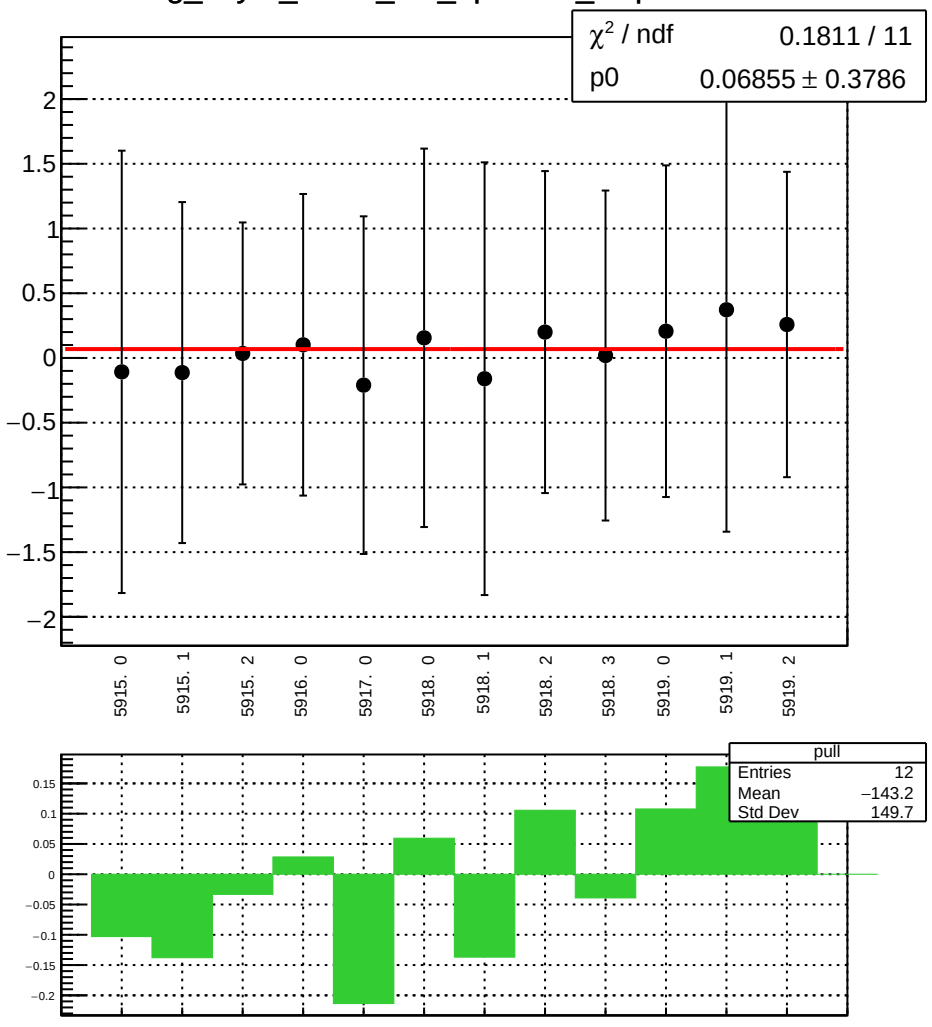

pull1D
Entries 12
Mean 0.001347
Std Dev 0.1679
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

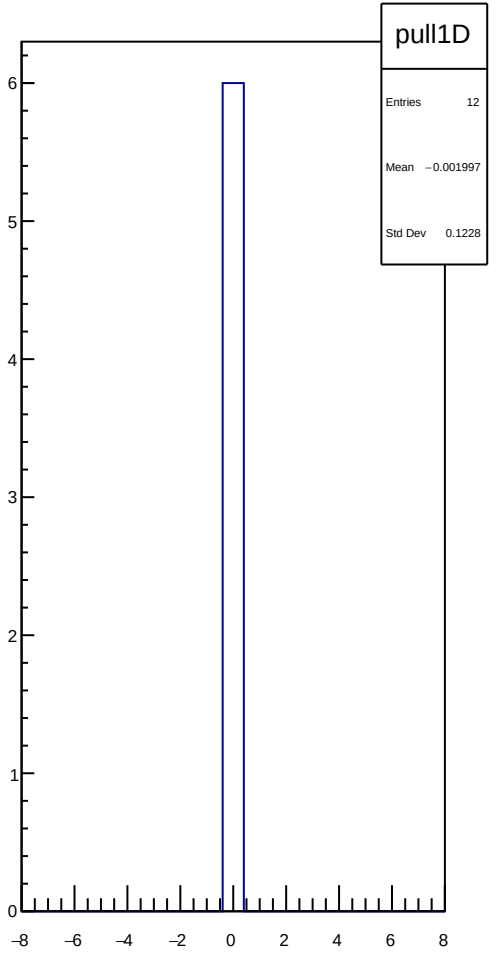

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0.07067 / 11
p0 −0.9094 ± 8.804
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 106.5
Std Dev 100.7
0.15
0.1
0.05
0
−0.05
−0.1

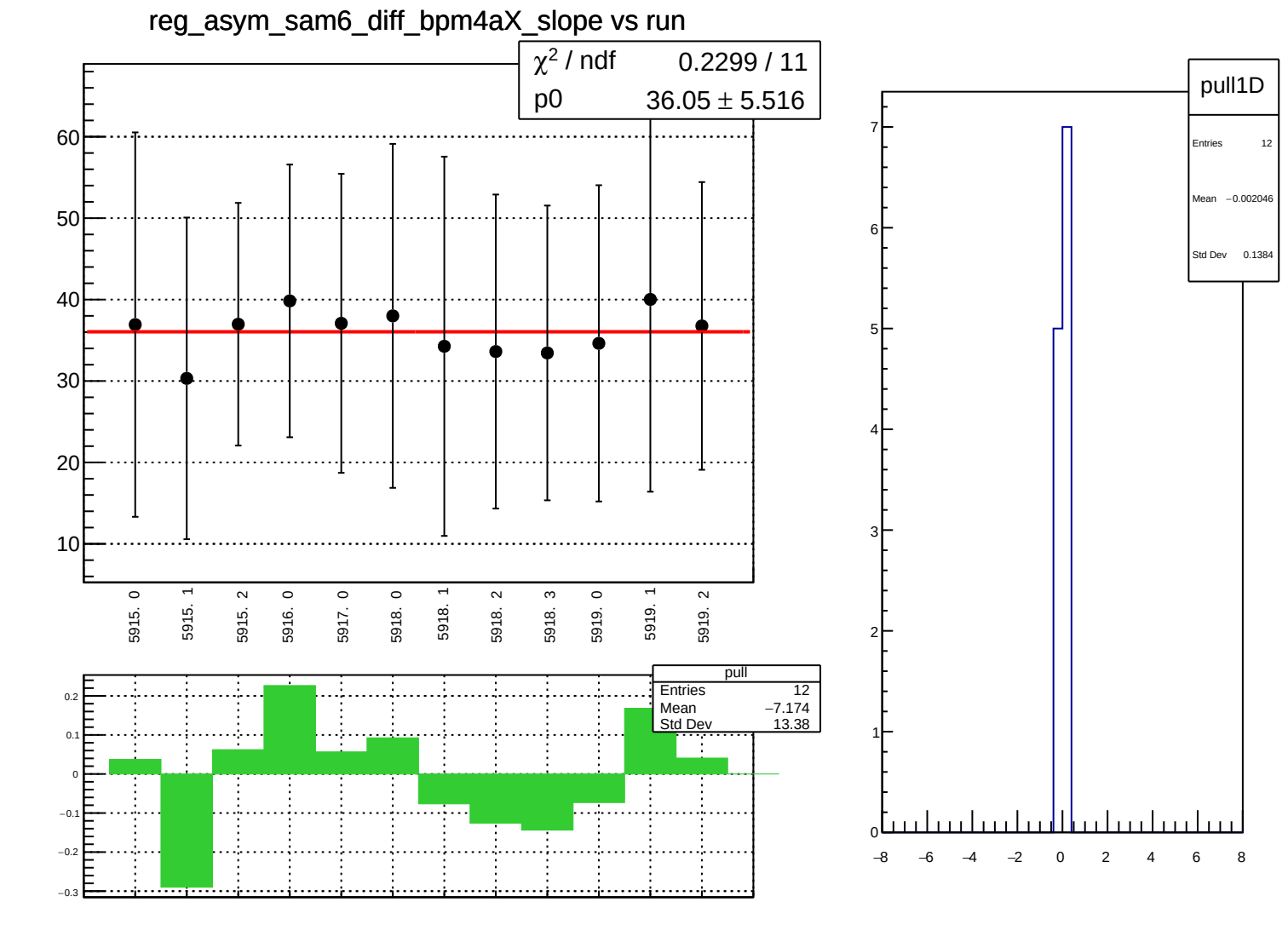

pull1D
Entries 12
Mean −0.001109
Std Dev 0.07673
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

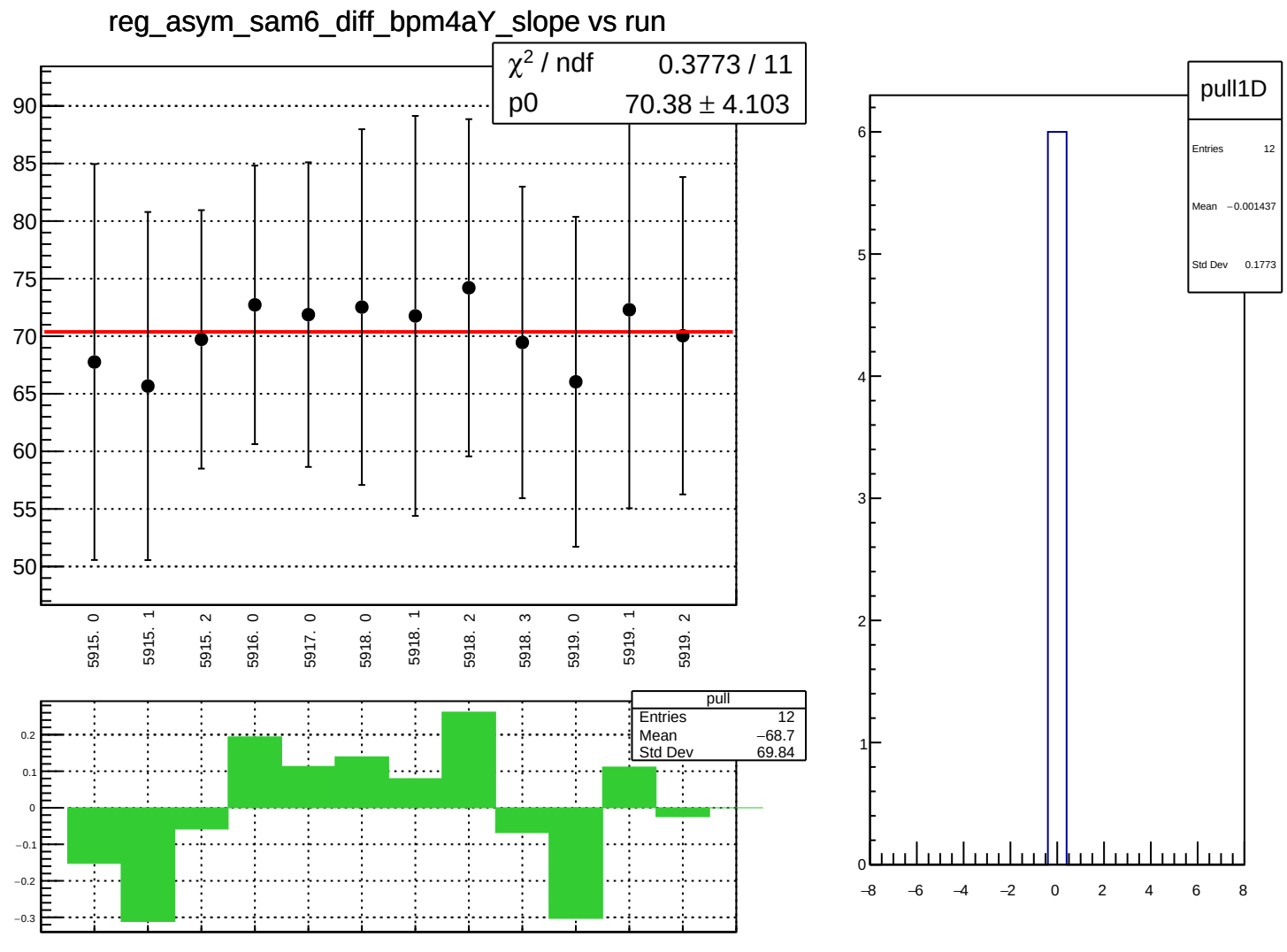

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 0.4427 / 11
p0 96.57 ± 5.7
130
120
110
100
90
80
70
60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 65.32
Std Dev 62.75
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

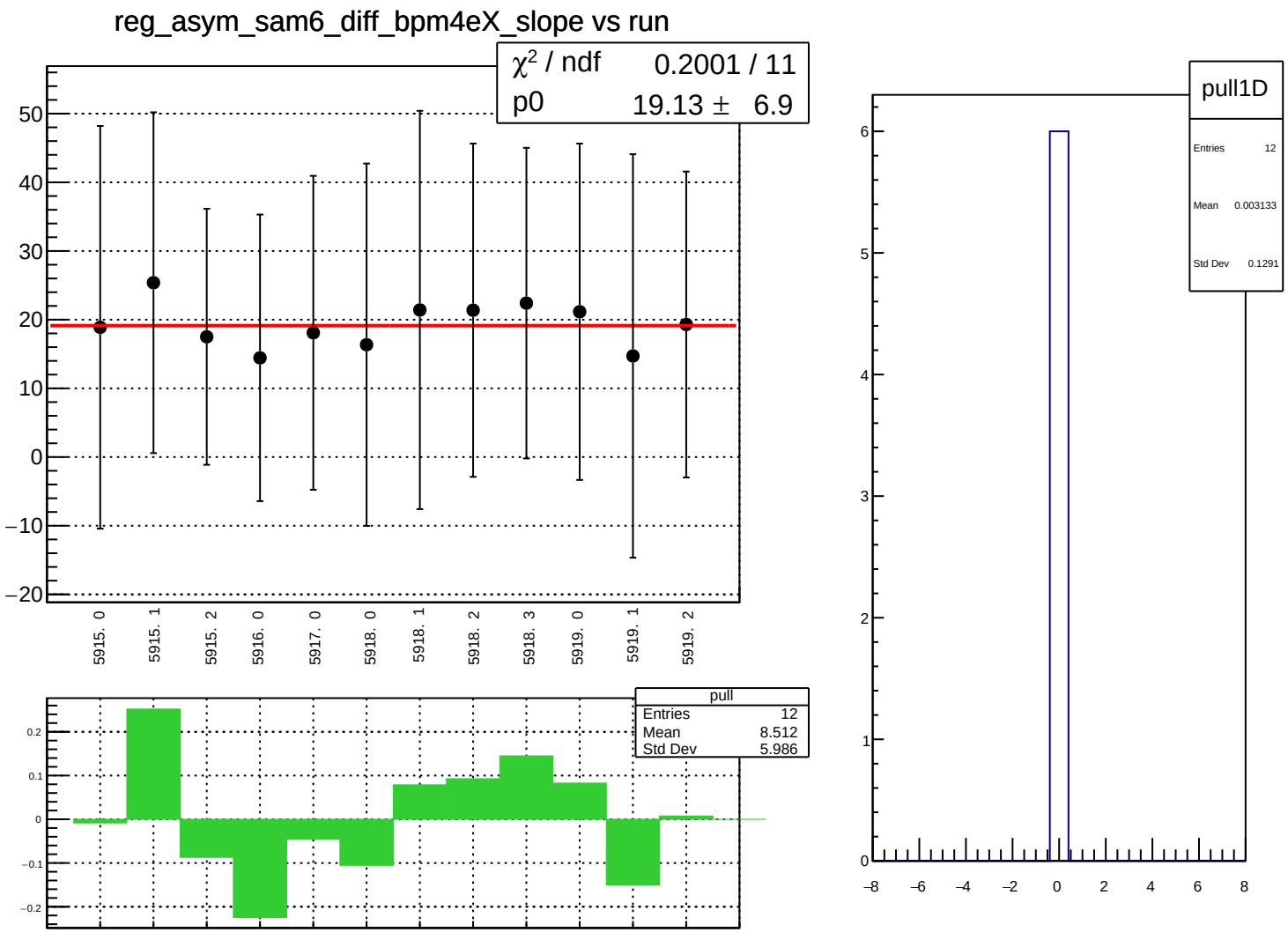

pull1D
Entries 12
Mean −0.002125
Std Dev 0.1921
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

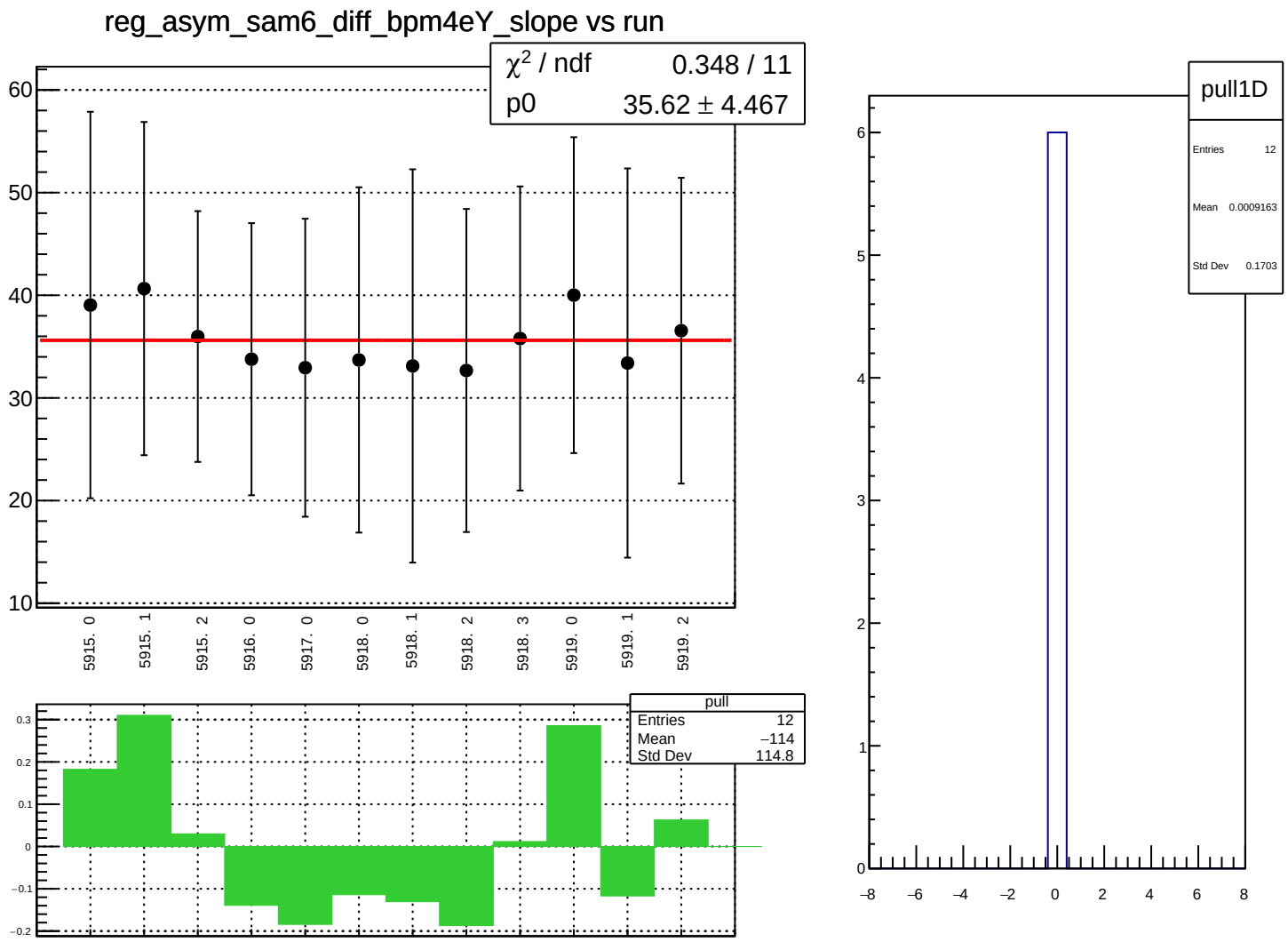

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 0.1811 / 11
p0 0.06855 ± 0.3786
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −143.2
Std Dev 149.7
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

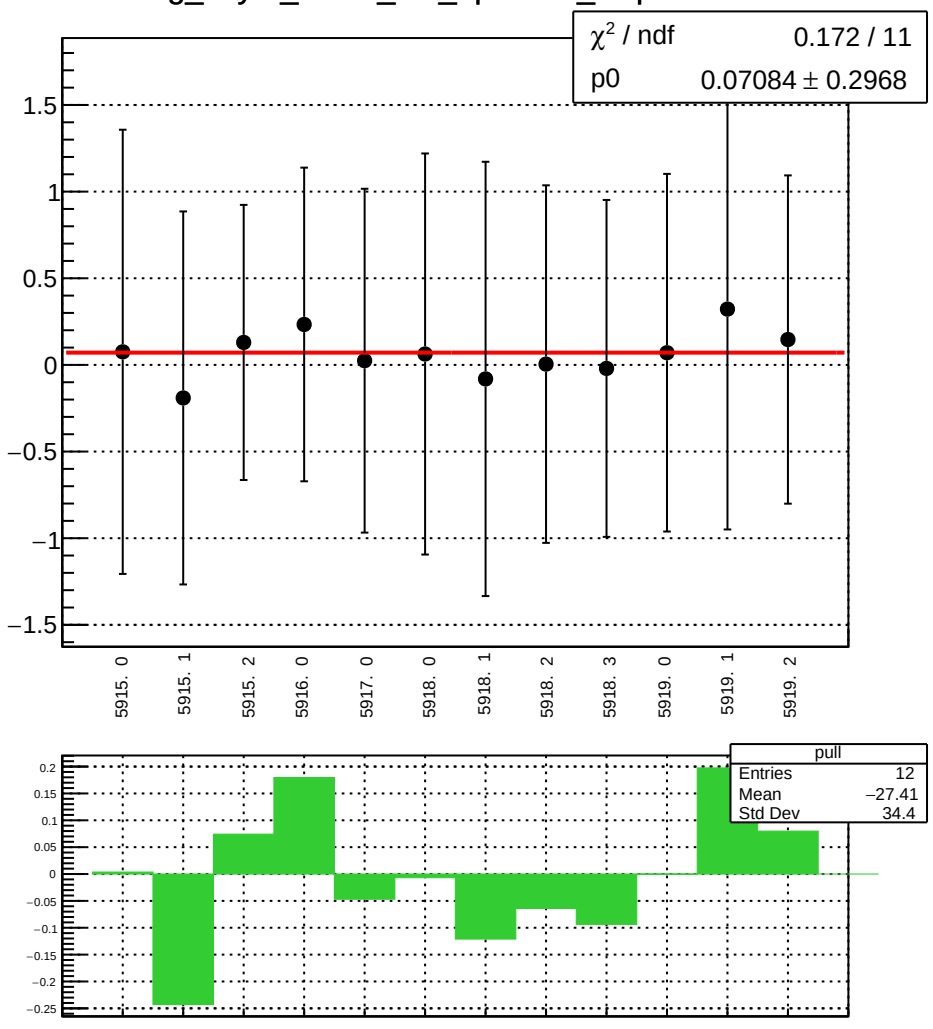

pull1D
Entries 12
Mean −0.001997
Std Dev 0.1228
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

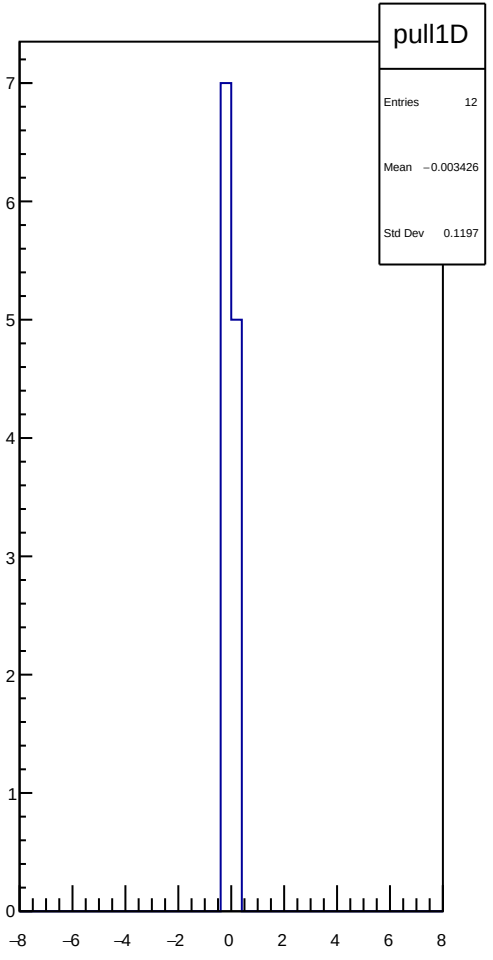

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 0.2299 / 11
p0 36.05 ± 5.516
60
50
40
30
20
10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −7.174
Std Dev 13.38
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.002046
Std Dev 0.1384
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

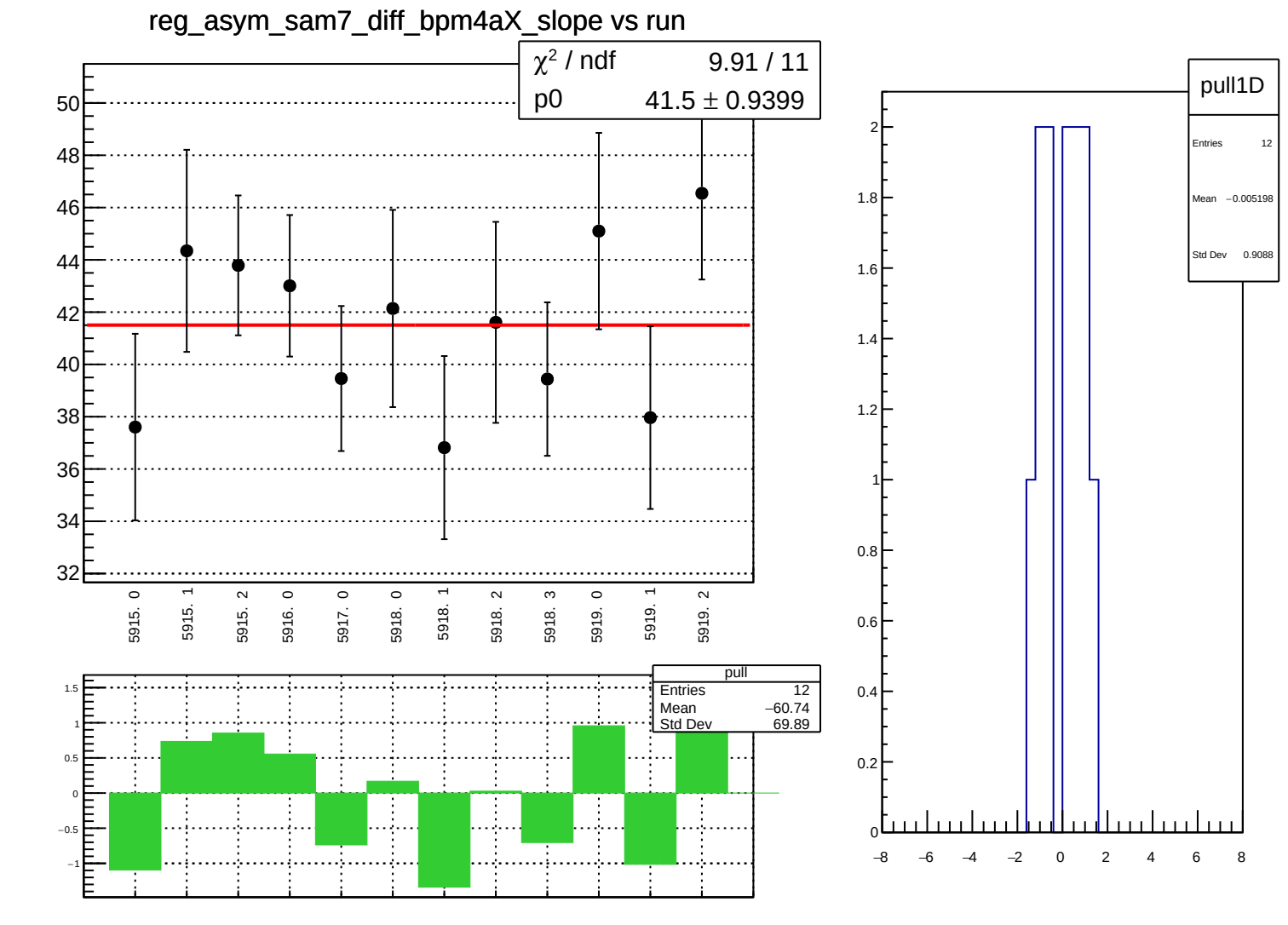

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 0.3773 / 11
p0 70.38 ± 4.103
90
85
80
75
70
65
60
55
50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −68.7
Std Dev 69.84
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.001437
Std Dev 0.1773
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

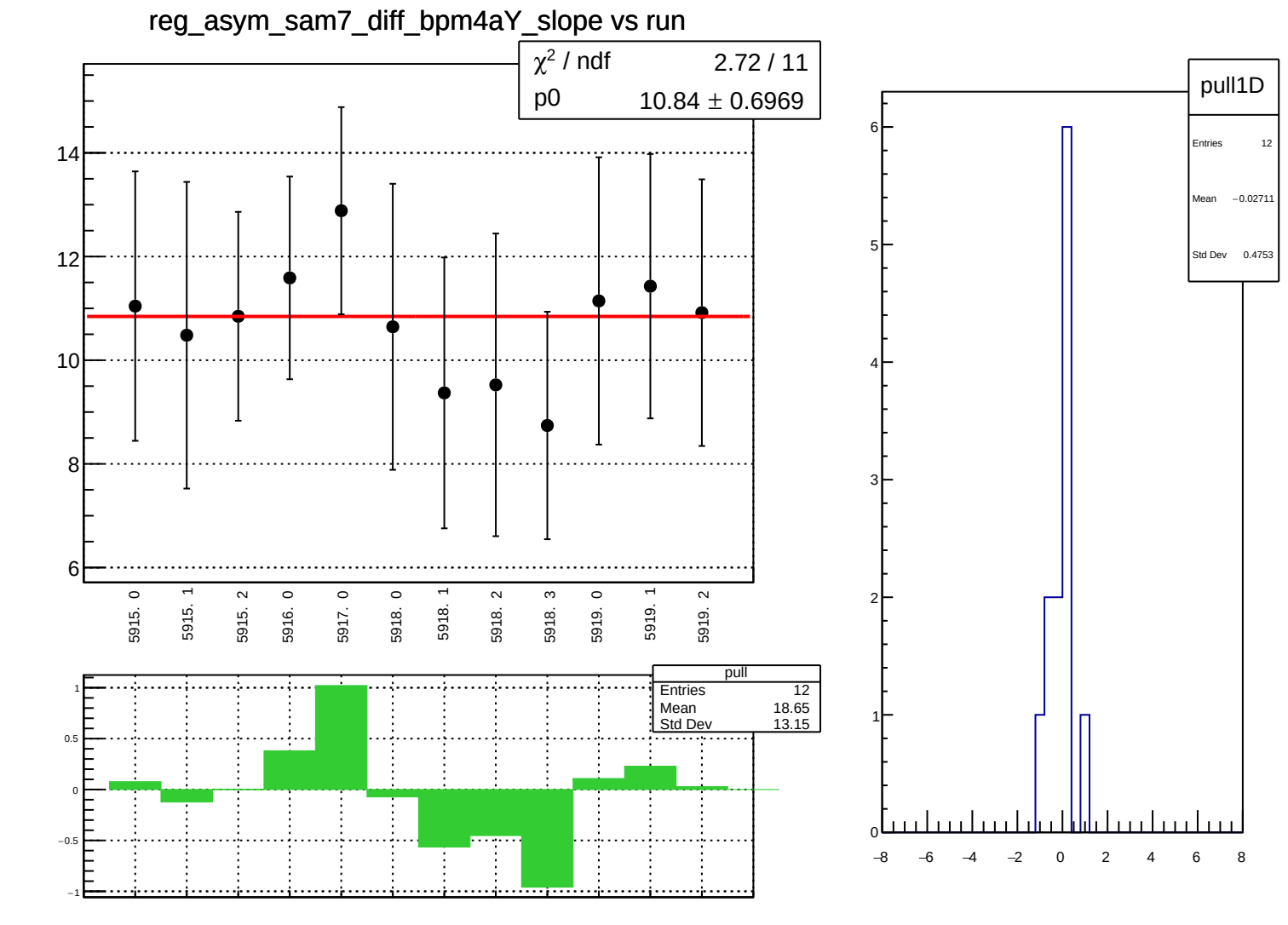

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0.2001 / 11
p0 19.13 ± 6.9
50
40
30
20
10
0
−10
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.512
Std Dev 5.986
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 12
Mean 0.003133
Std Dev 0.1291
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

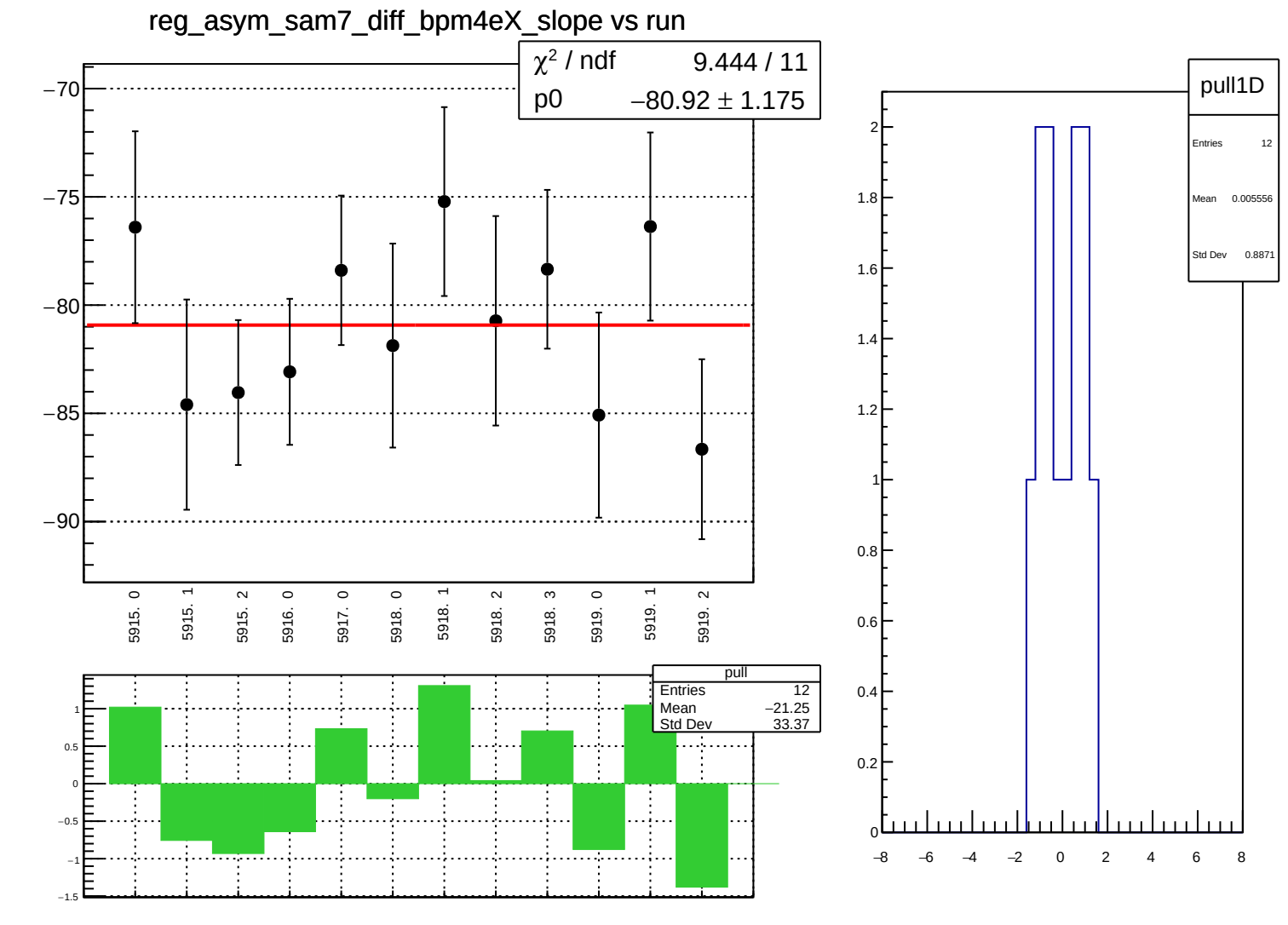

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 0.348 / 11
p0 35.62 ± 4.467
60
50
40
30
20
10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −114
Std Dev 114.8
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 12
Mean 0.0009163
Std Dev 0.1703
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

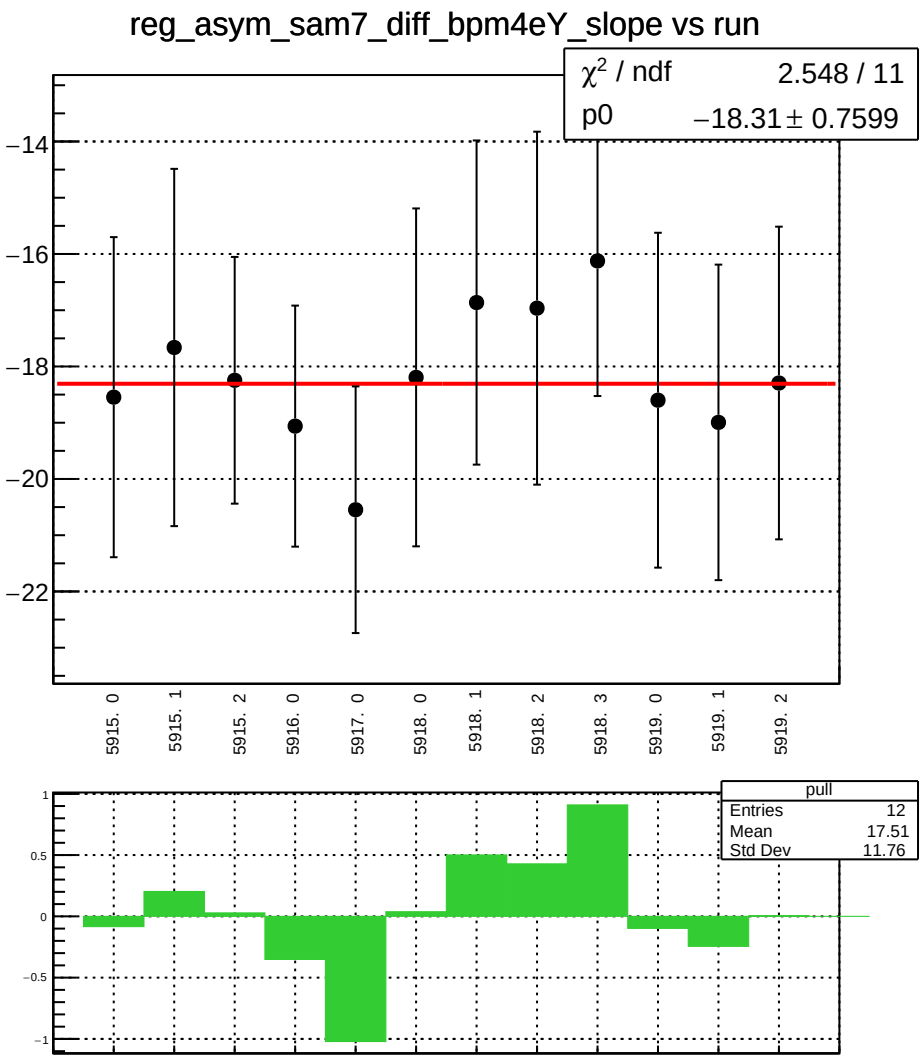

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.172 / 11
p0 0.07084 ± 0.2968
1.5
1
0.5
0
−0.5
−1
−1.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −27.41
Std Dev 34.4
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

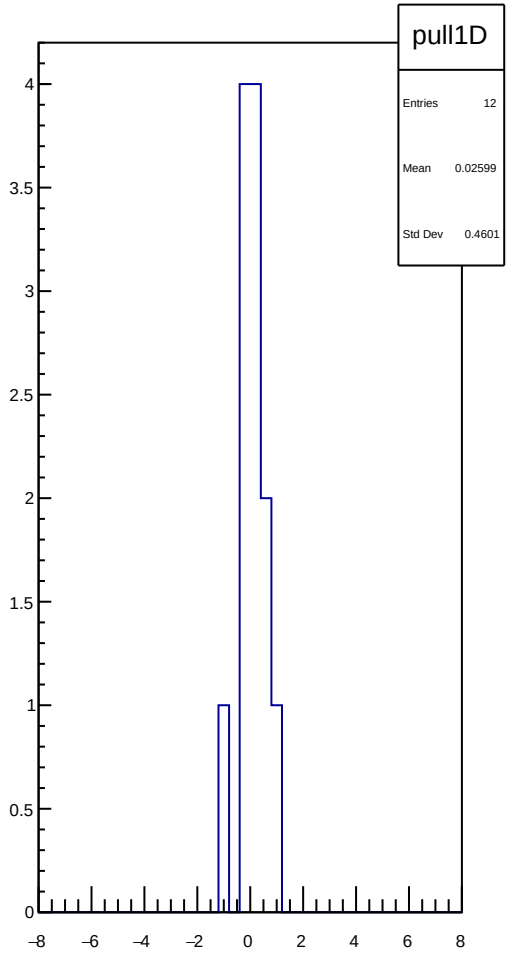

pull1D
Entries 12
Mean −0.003426
Std Dev 0.1197
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

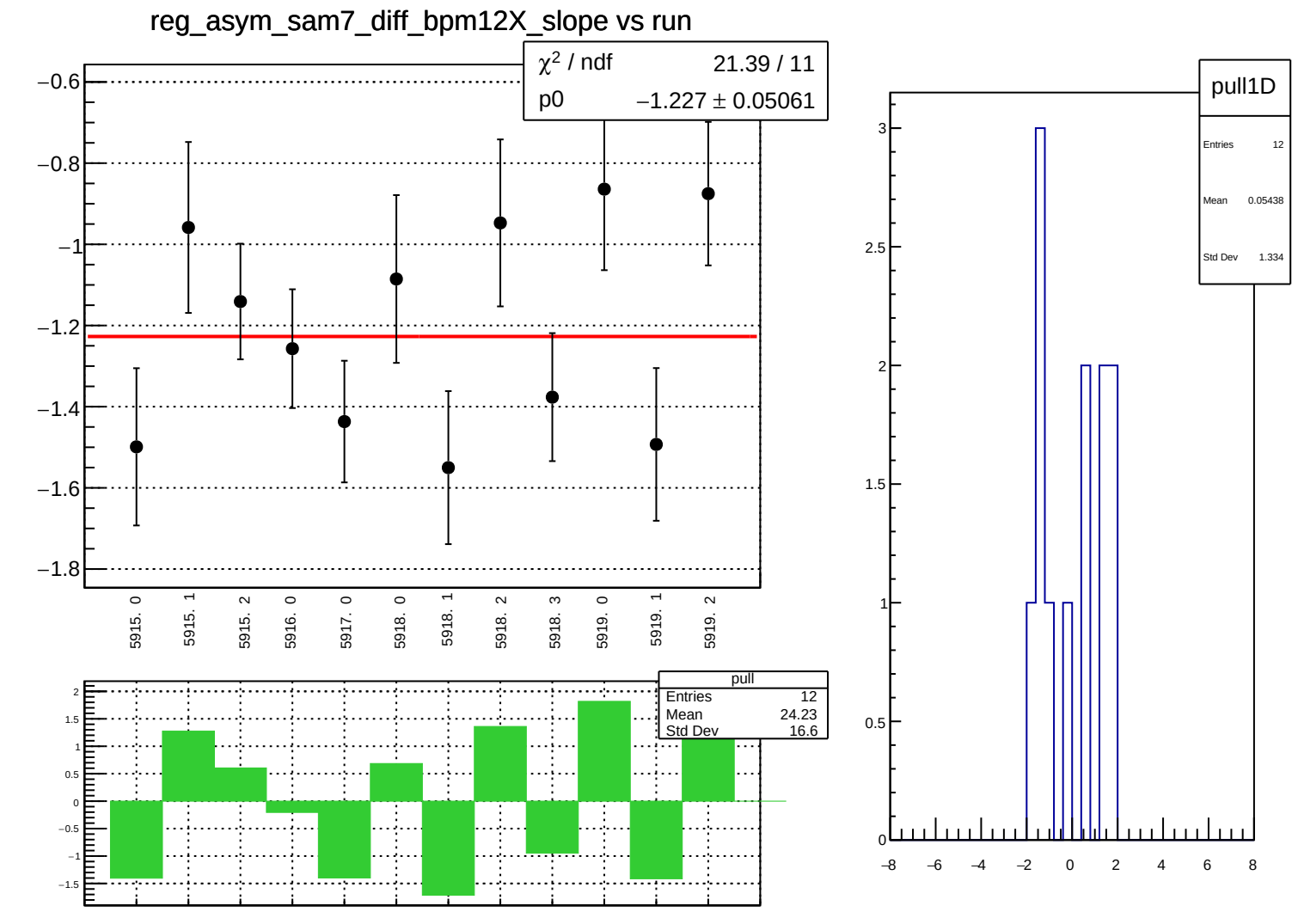

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 9.91 / 11
p0 41.5 ± 0.9399
50
48
46
44
42
40
38
36
34
32
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −60.74
Std Dev 69.89
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.005198
Std Dev 0.9088
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

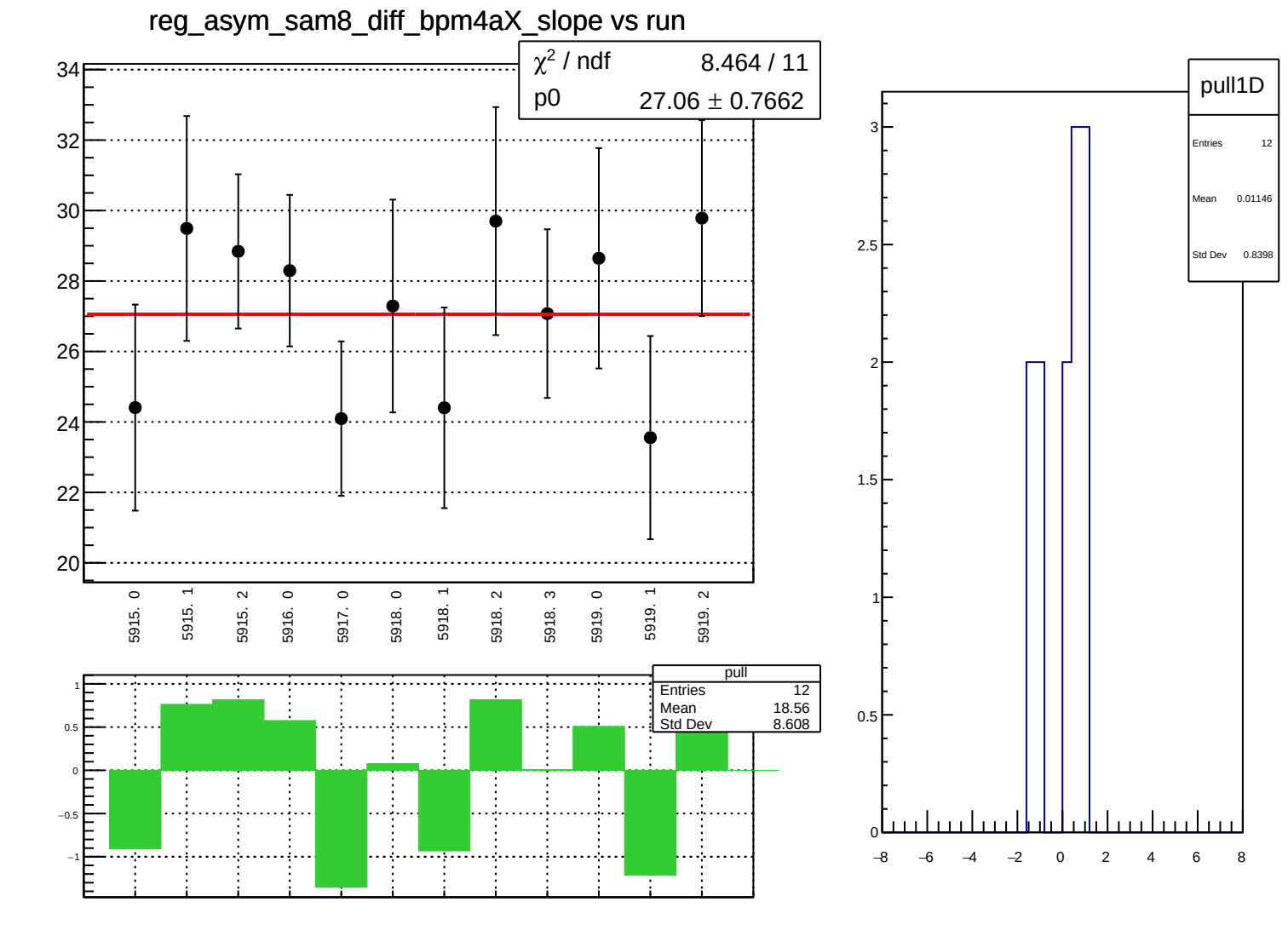

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.72 / 11
p0 10.84 ± 0.6969
14
12
10
8
6
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 18.65
Std Dev 13.15
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.02711
Std Dev 0.4753
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

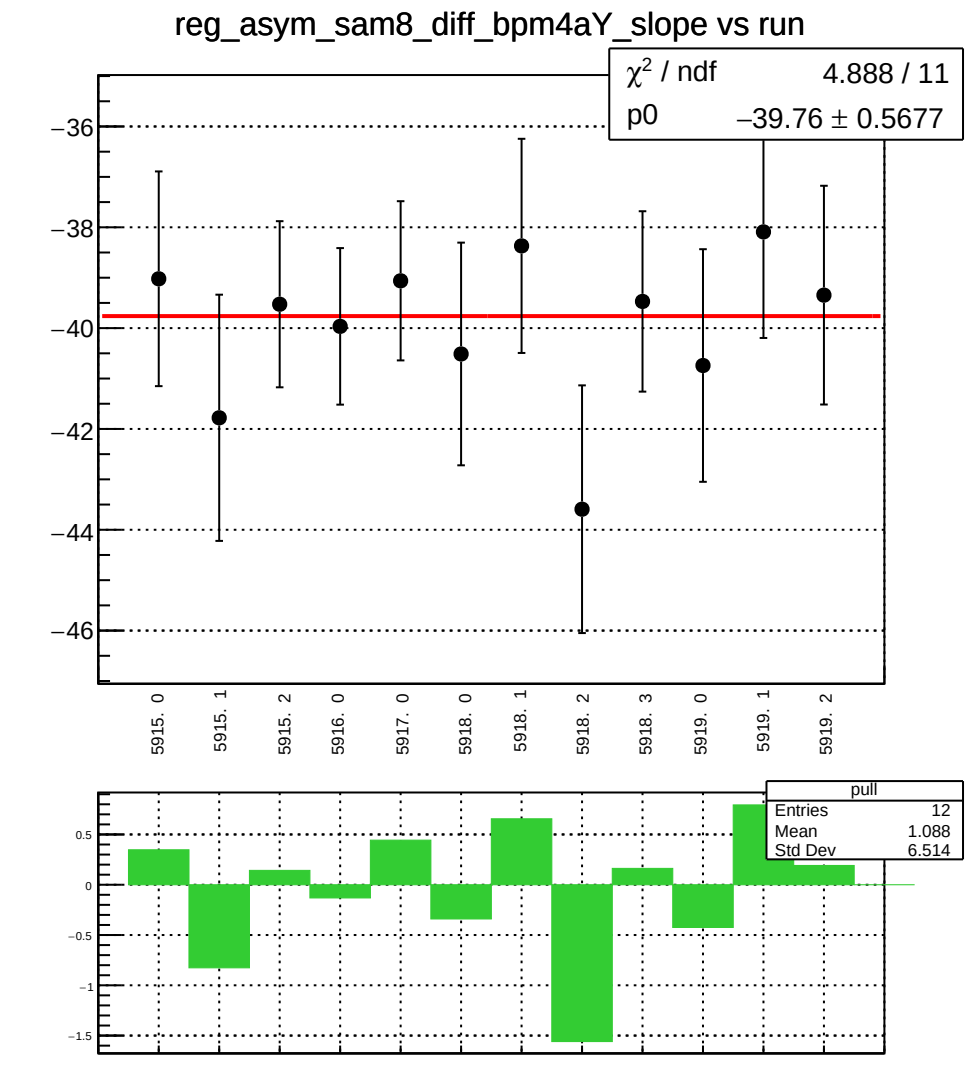

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 9.444 / 11
p0 −80.92 ± 1.175
−70
−75
−80
−85
−90
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −21.25
Std Dev 33.37
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.005556
Std Dev 0.8871
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

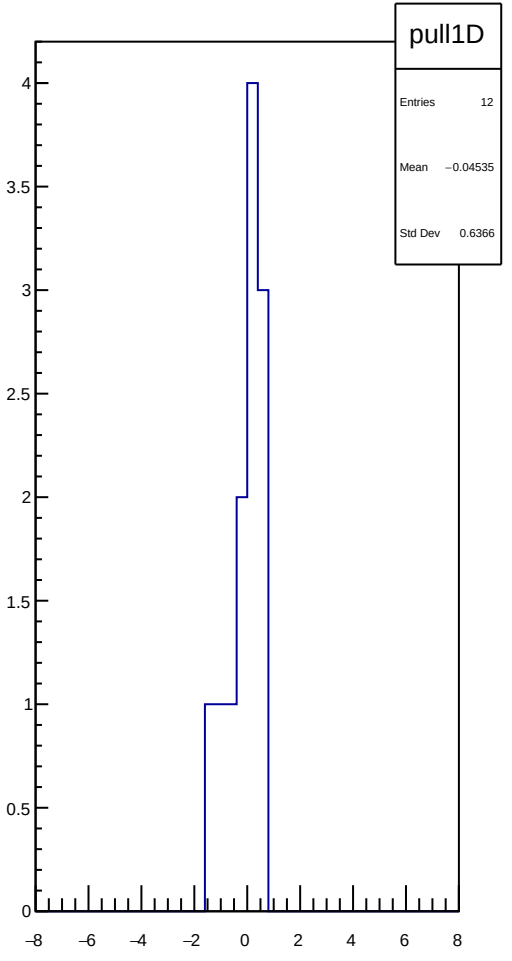

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.548 / 11
p0 −18.31 ± 0.7599
−14
−16
−18
−20
−22
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 17.51
Std Dev 11.76
1
0.5
0
−0.5
−1

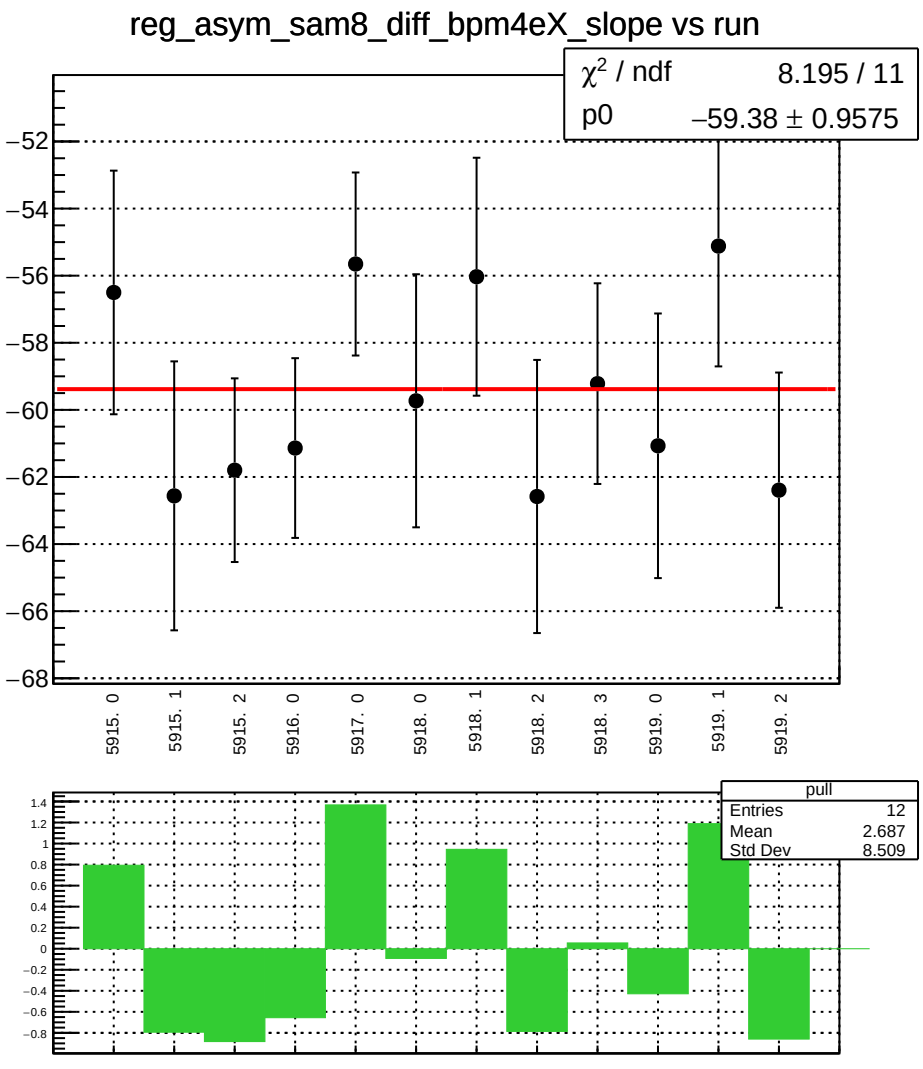

pull1D
Entries 12
Mean 0.02599
Std Dev 0.4601
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

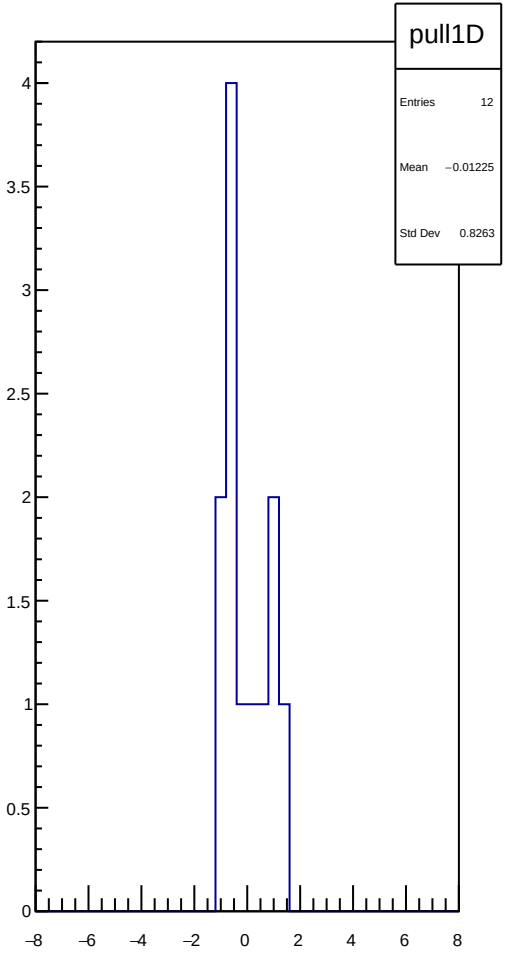

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 21.39 / 11
p0 −1.227 ± 0.05061
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 24.23
Std Dev 16.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.05438
Std Dev 1.334
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

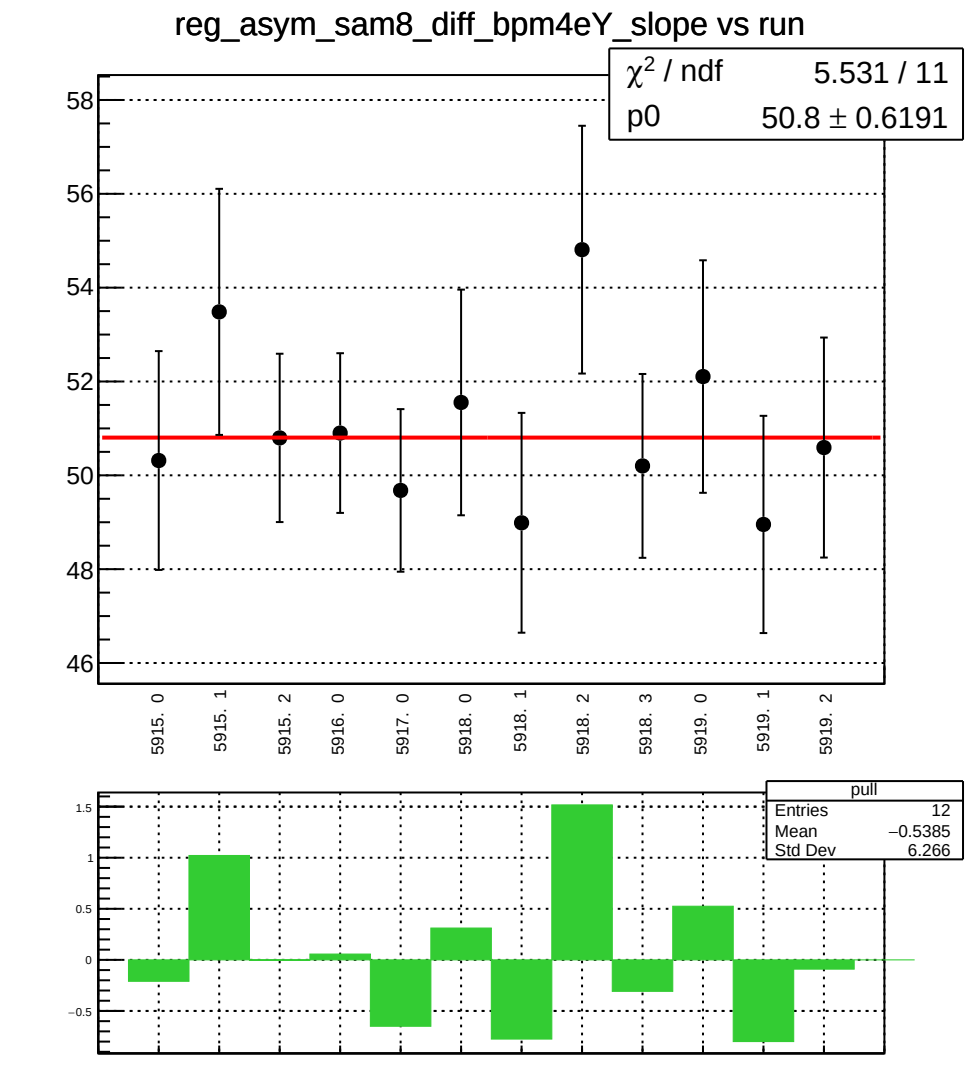

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 8.464 / 11
p0 27.06 ± 0.7662
34
32
30
28
26
24
22
20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 18.56
Std Dev 8.608
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.01146
Std Dev 0.8398
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

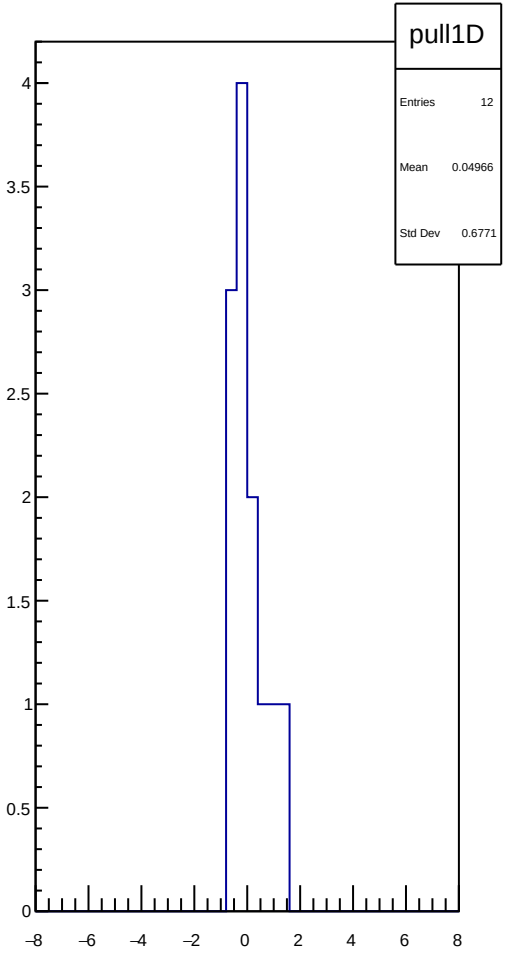

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 4.888 / 11
p0 −39.76 ± 0.5677
−36
−38
−40
−42
−44
−46
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 1.088
Std Dev 6.514
0.5
0
−0.5
−1
−1.5

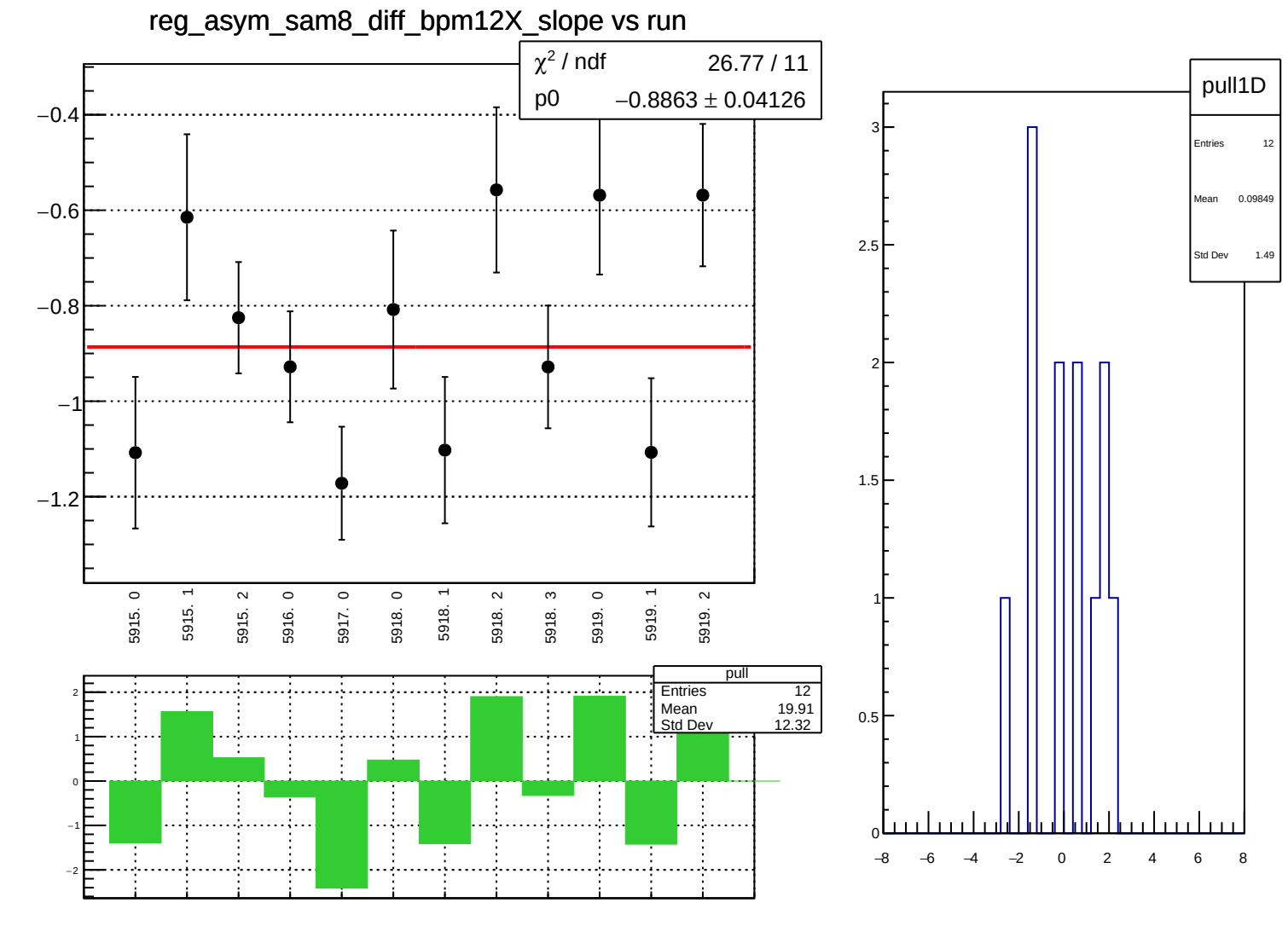

pull1D
Entries 12
Mean −0.04535
Std Dev 0.6366
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

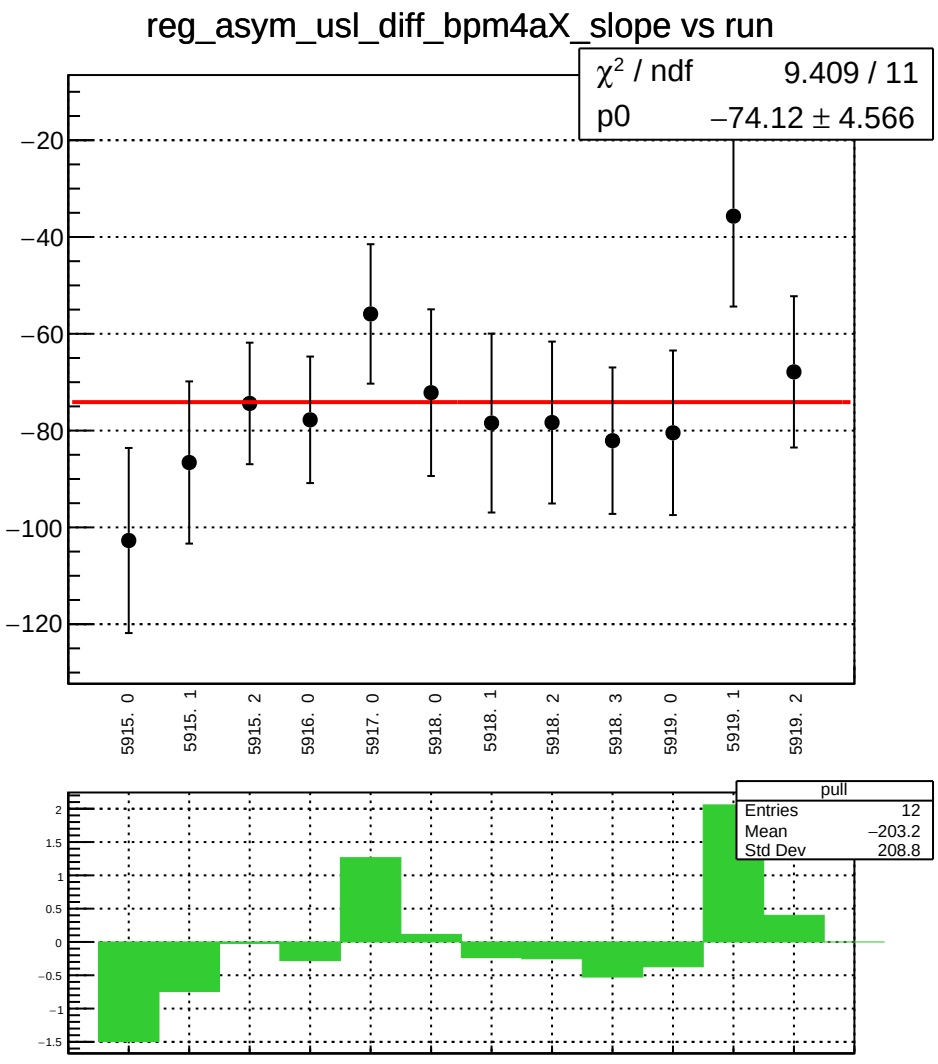

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 8.195 / 11
p0 −59.38 ± 0.9575
−52
−54
−56
−58
−60
−62
−64
−66
−68
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 2.687
Std Dev 8.509
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

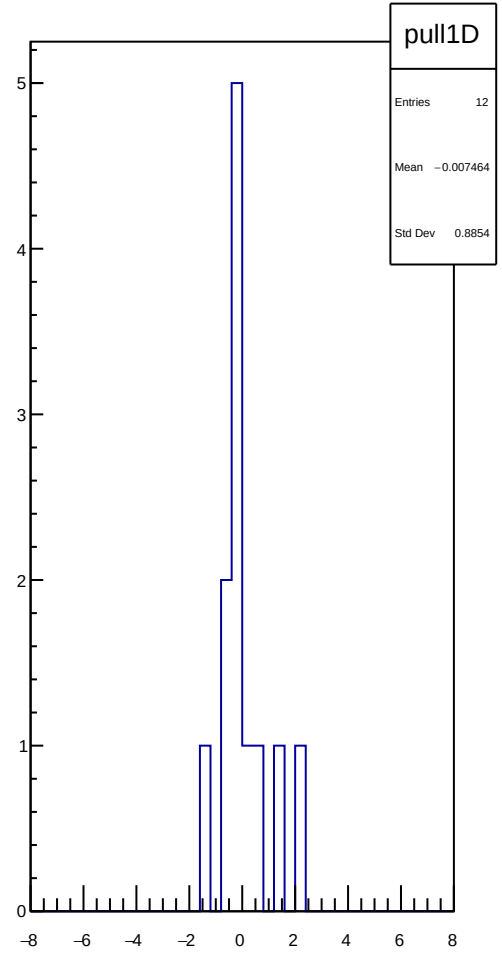

pull1D
Entries 12
Mean −0.01225
Std Dev 0.8263
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

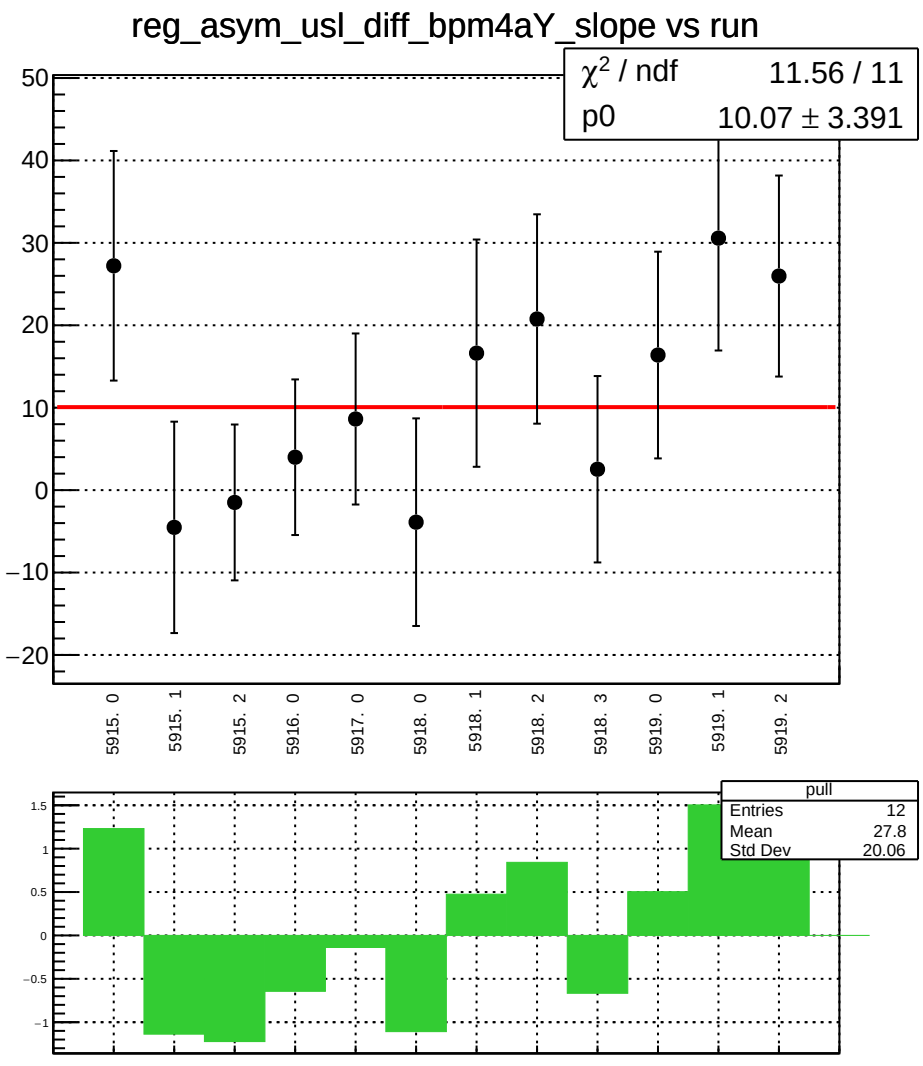

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 5.531 / 11
p0 50.8 ± 0.6191
58
56
54
52
50
48
46
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −0.5385
Std Dev 6.266
1.5
1
0.5
0
−0.5

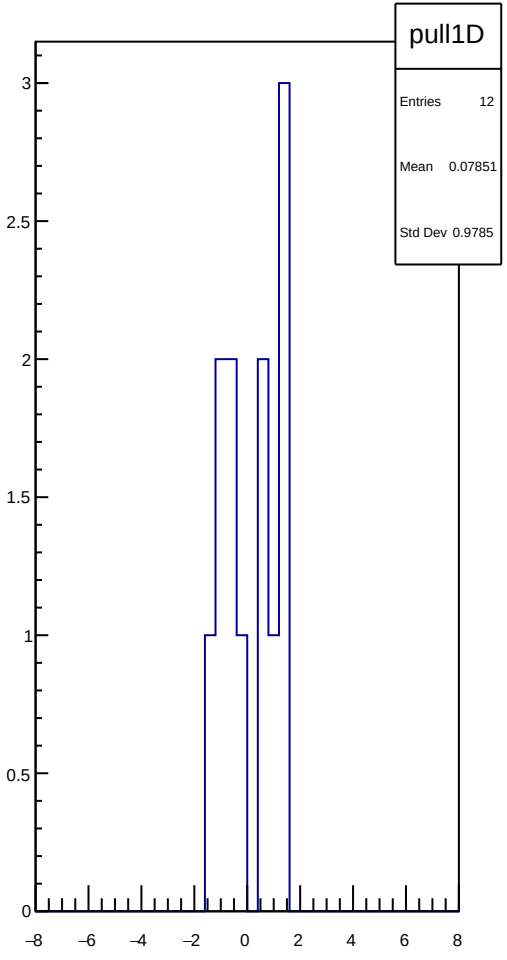

pull1D
Entries 12
Mean 0.04966
Std Dev 0.6771
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

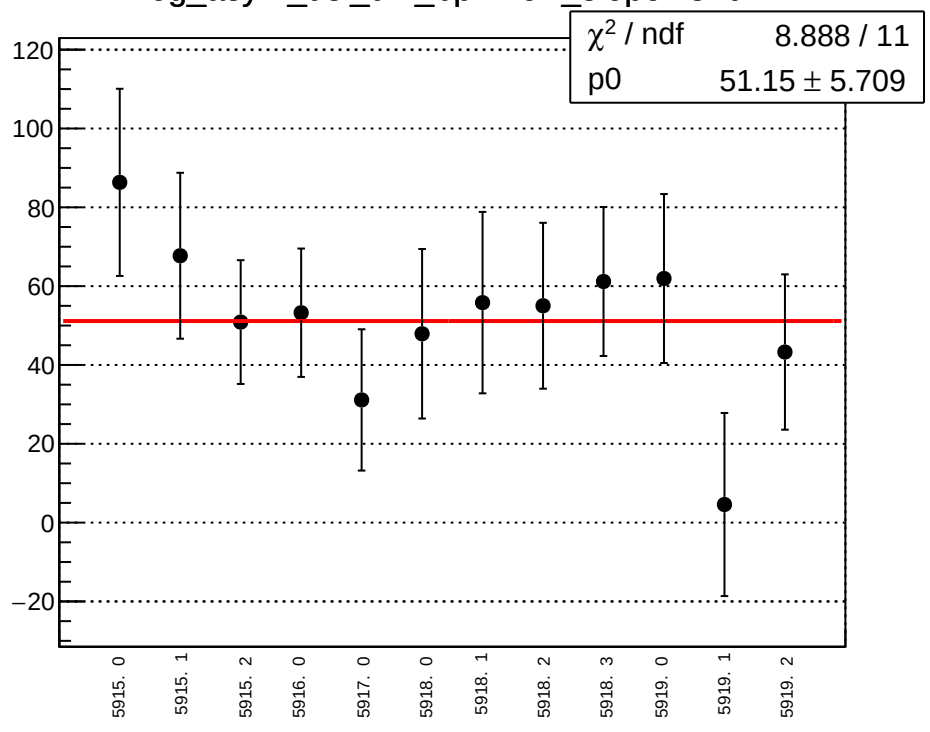

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 26.77 / 11
p0 −0.8863 ± 0.04126
−0.4
−0.6
−0.8
−1
−1.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.91
Std Dev 12.32
2
1
0
−1
−2
pull1D
Entries 12
Mean 0.09849
Std Dev 1.49
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

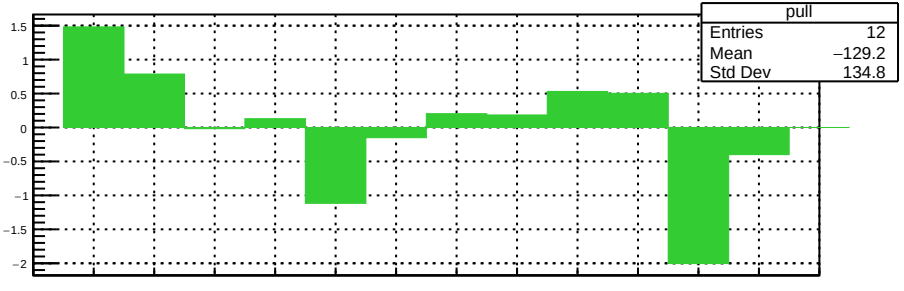

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 9.409 / 11
p0 −74.12 ± 4.566
−20
−40
−60
−80
−100
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −203.2
Std Dev 208.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

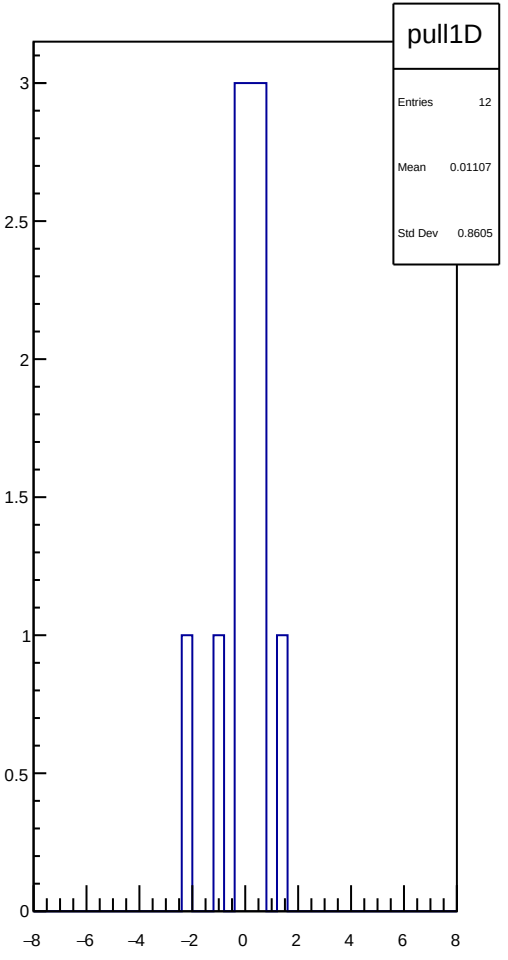

pull1D
Entries 12
Mean −0.007464
Std Dev 0.8854
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

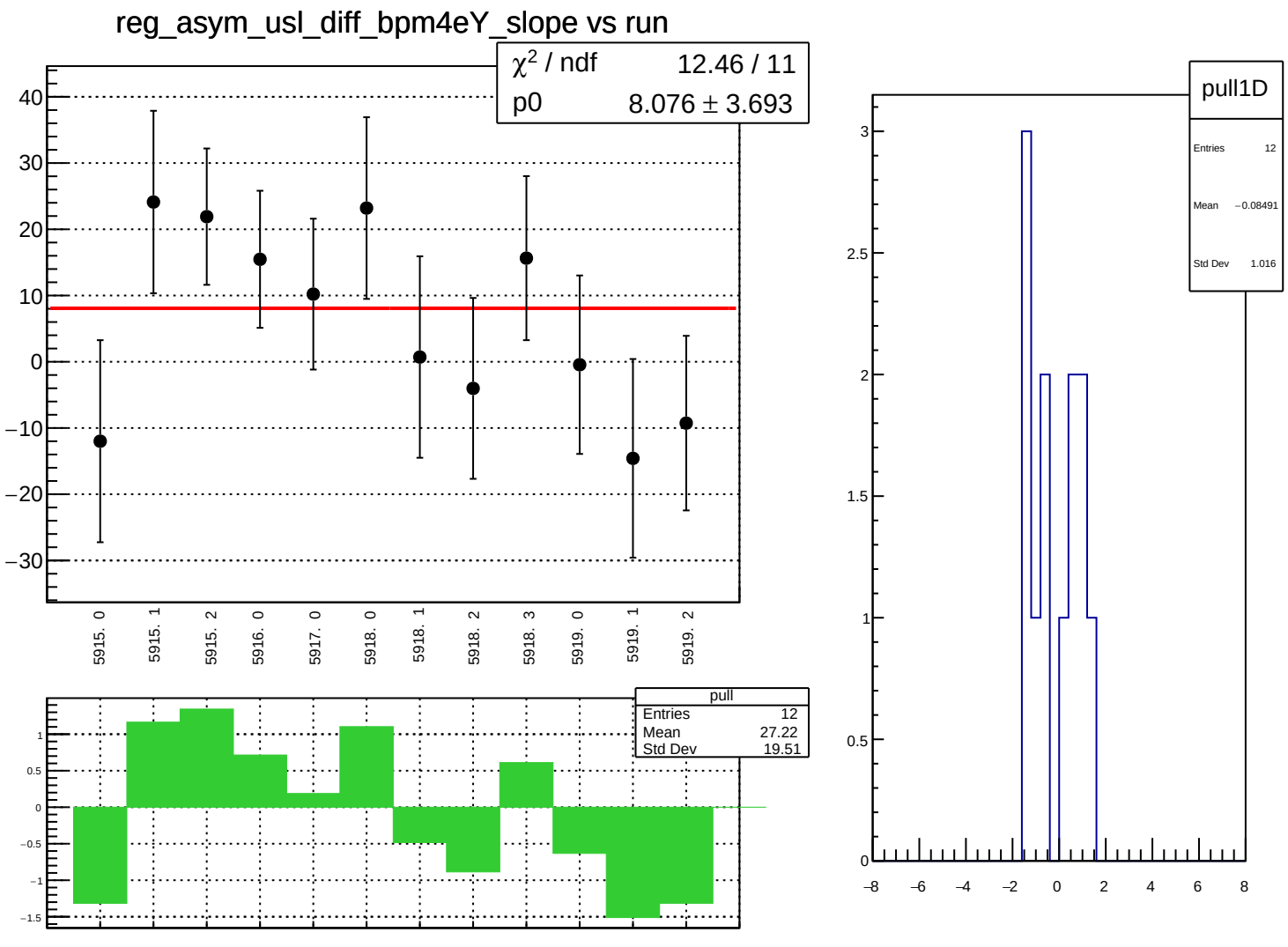

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 11.56 / 11
p0 10.07 ± 3.391
50
40
30
20
10
0
−10
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.8
Std Dev 20.06
1.5
1
0.5
0
−0.5
−1

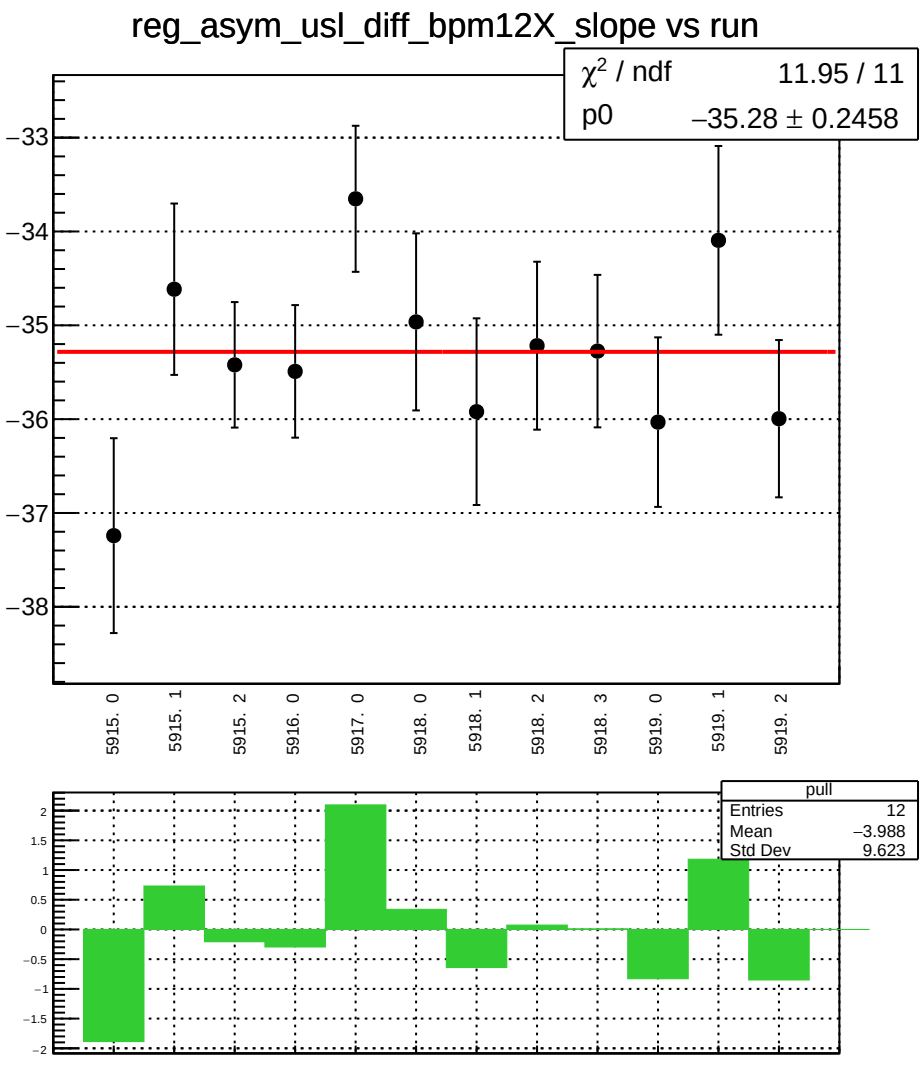

pull1D
Entries 12
Mean 0.07851
Std Dev 0.9785
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

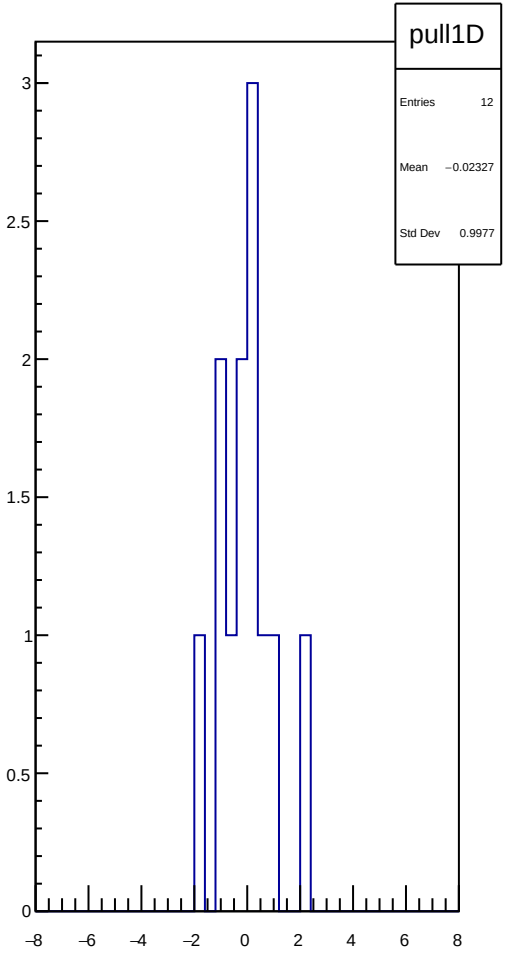

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 8.888 / 11
p0 51.15 ± 5.709
120
100
80
60
40
20
0
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

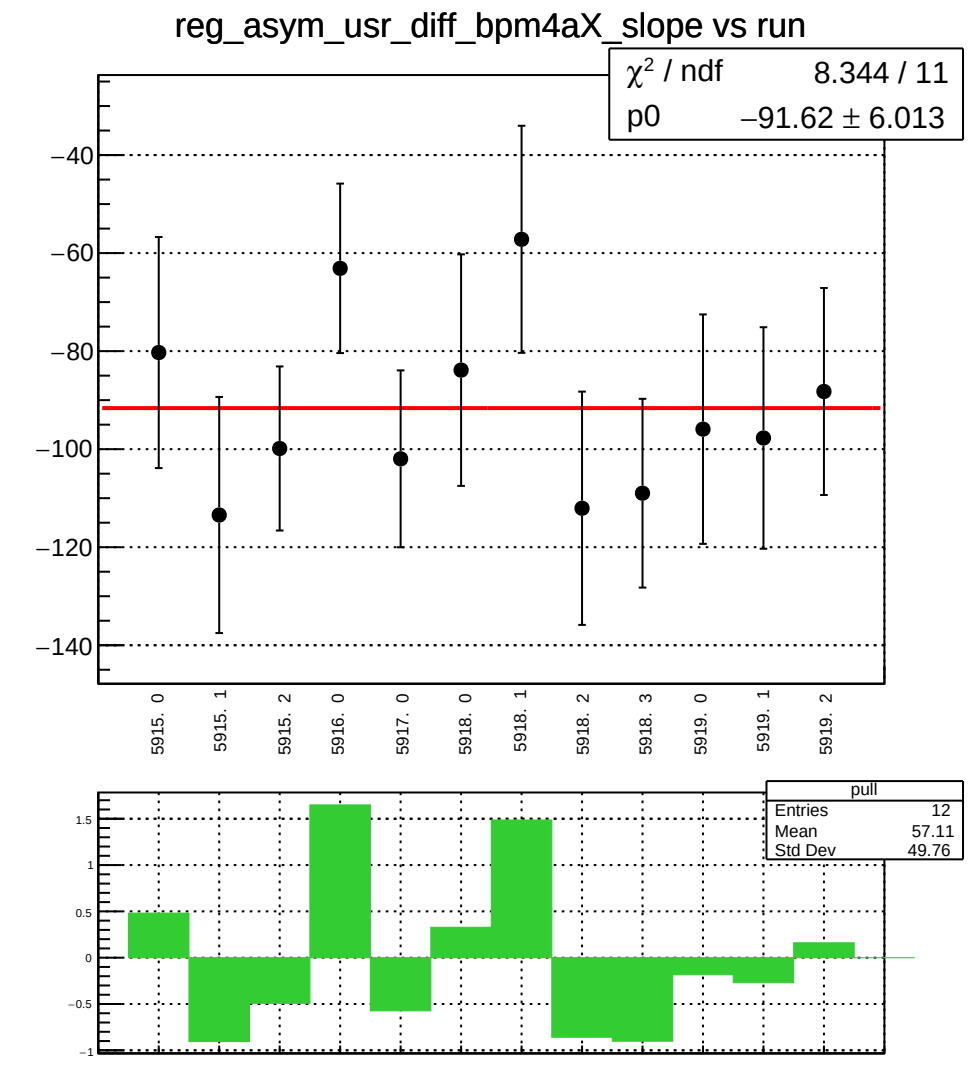

pull
Entries 12
Mean −129.2
Std Dev 134.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

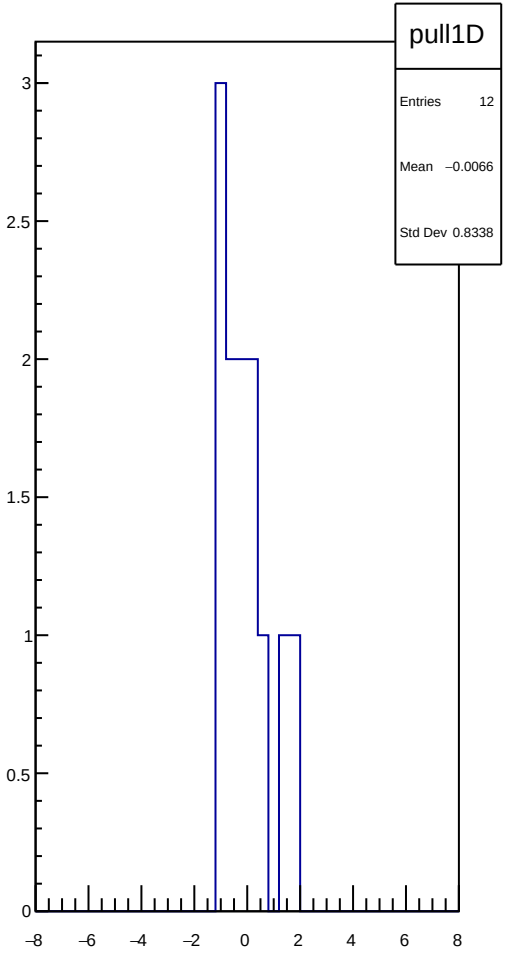

pull1D
Entries 12
Mean 0.01107
Std Dev 0.8605
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

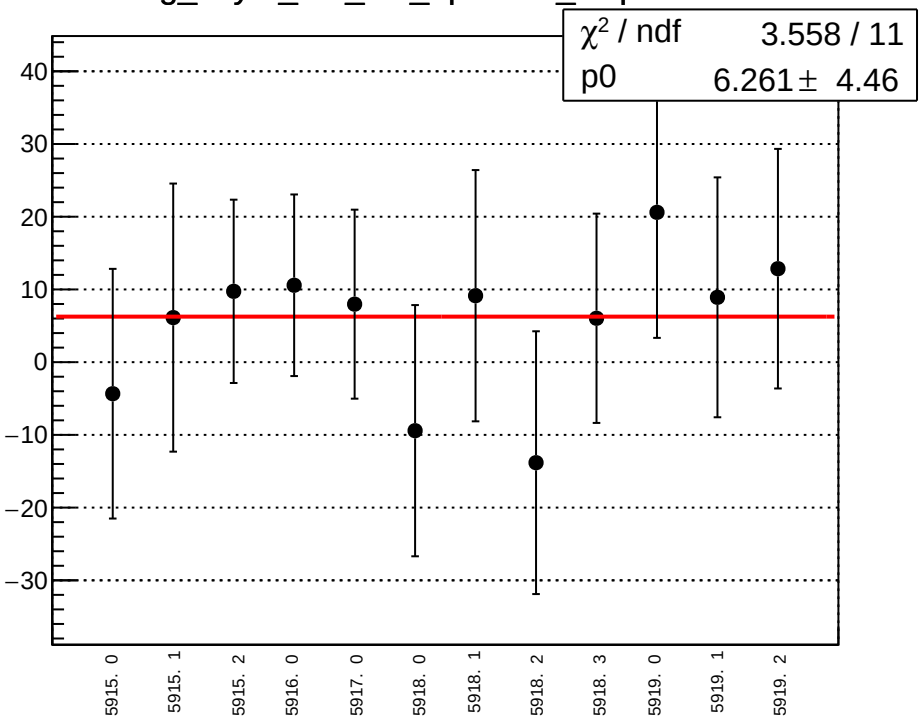

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 12.46 / 11
p0 8.076 ± 3.693
40
30
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.22
Std Dev 19.51
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.08491
Std Dev 1.016
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

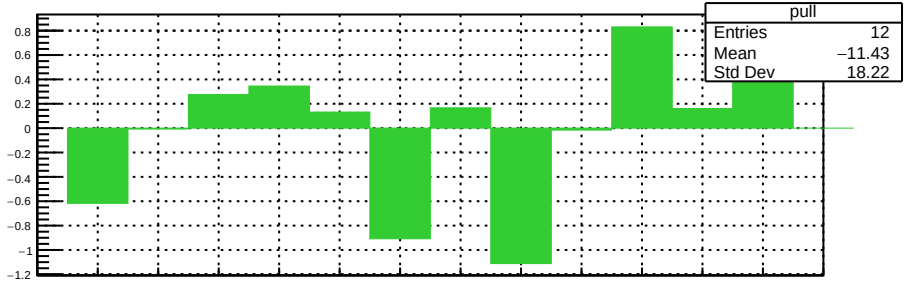

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 11.95 / 11
p0 −35.28 ± 0.2458
−33
−34
−35
−36
−37
−38
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −3.988
Std Dev 9.623
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

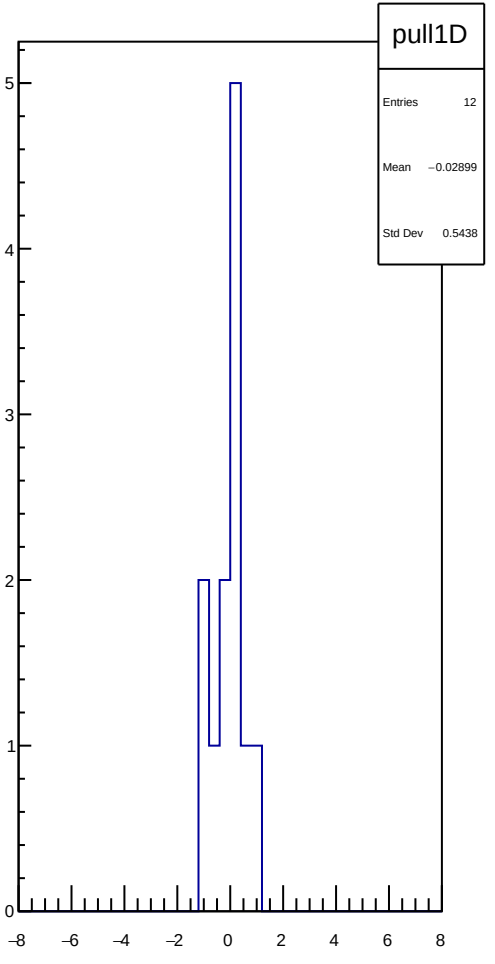

pull1D
Entries 12
Mean −0.02327
Std Dev 0.9977
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

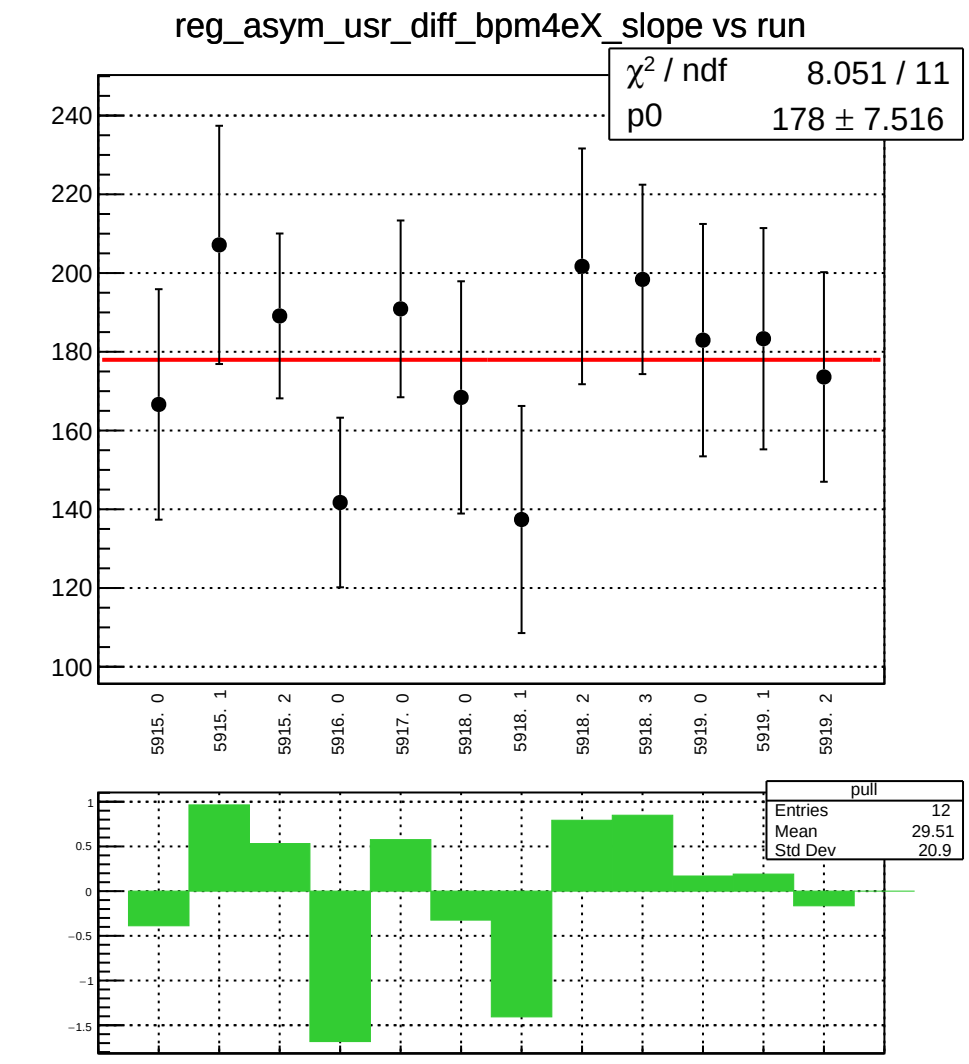

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 8.344 / 11
p0 −91.62 ± 6.013
−40
−60
−80
−100
−120
−140
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 57.11
Std Dev 49.76
1.5
1
0.5
0
−0.5
−1

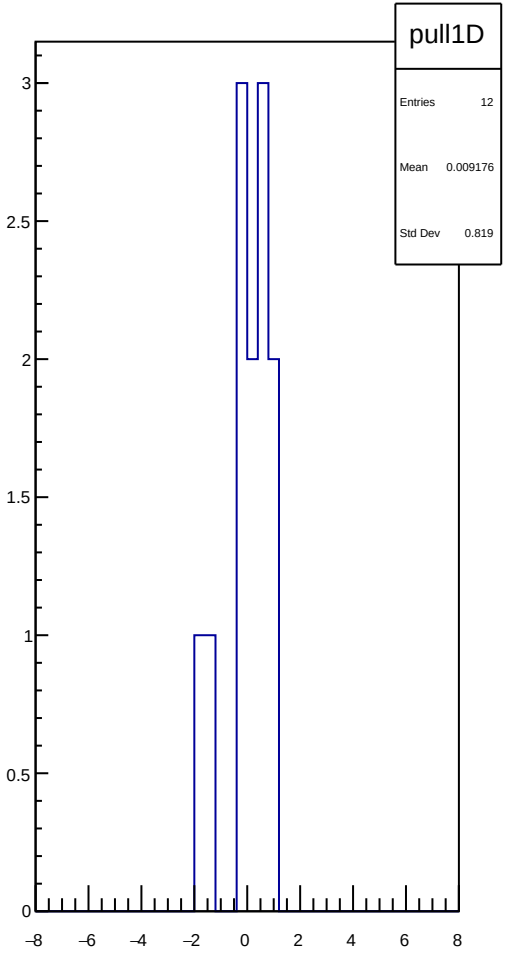

pull1D
Entries 12
Mean −0.0066
Std Dev 0.8338
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

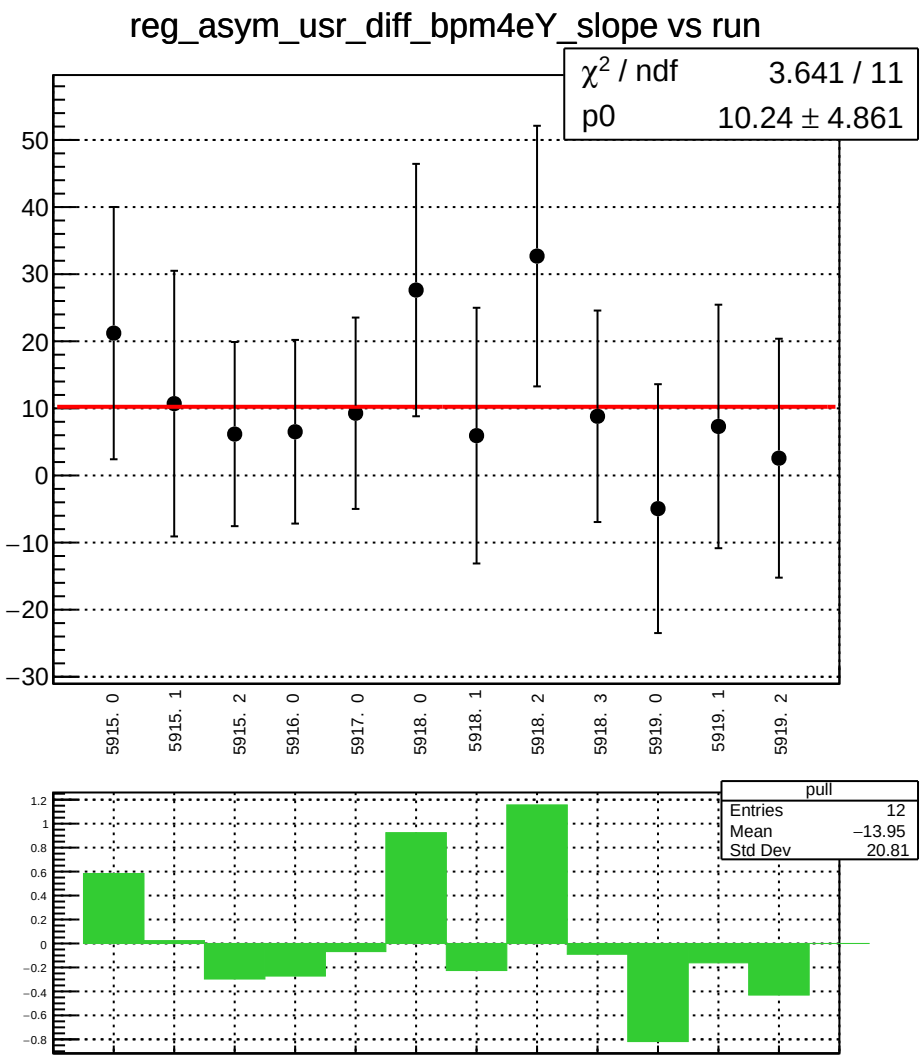

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 3.558 / 11
p0 6.261 ± 4.46
40
30
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

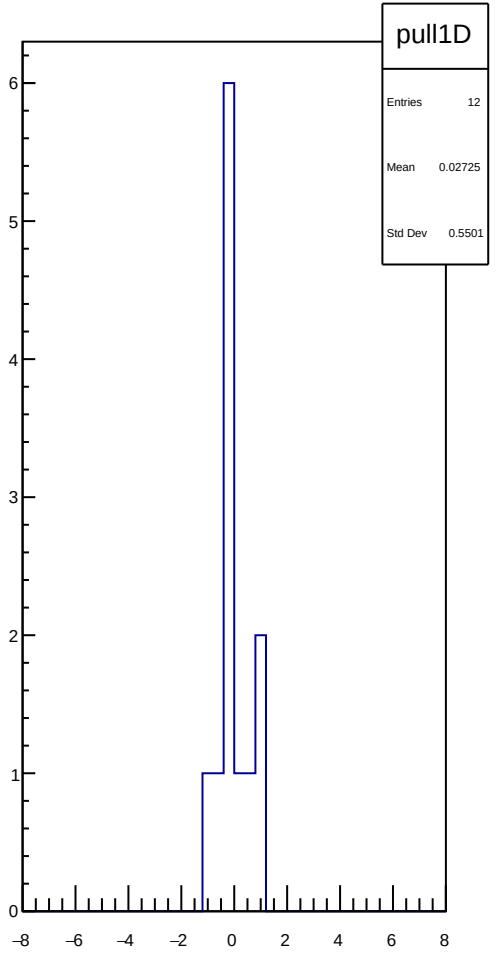

pull
Entries 12
Mean −11.43
Std Dev 18.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

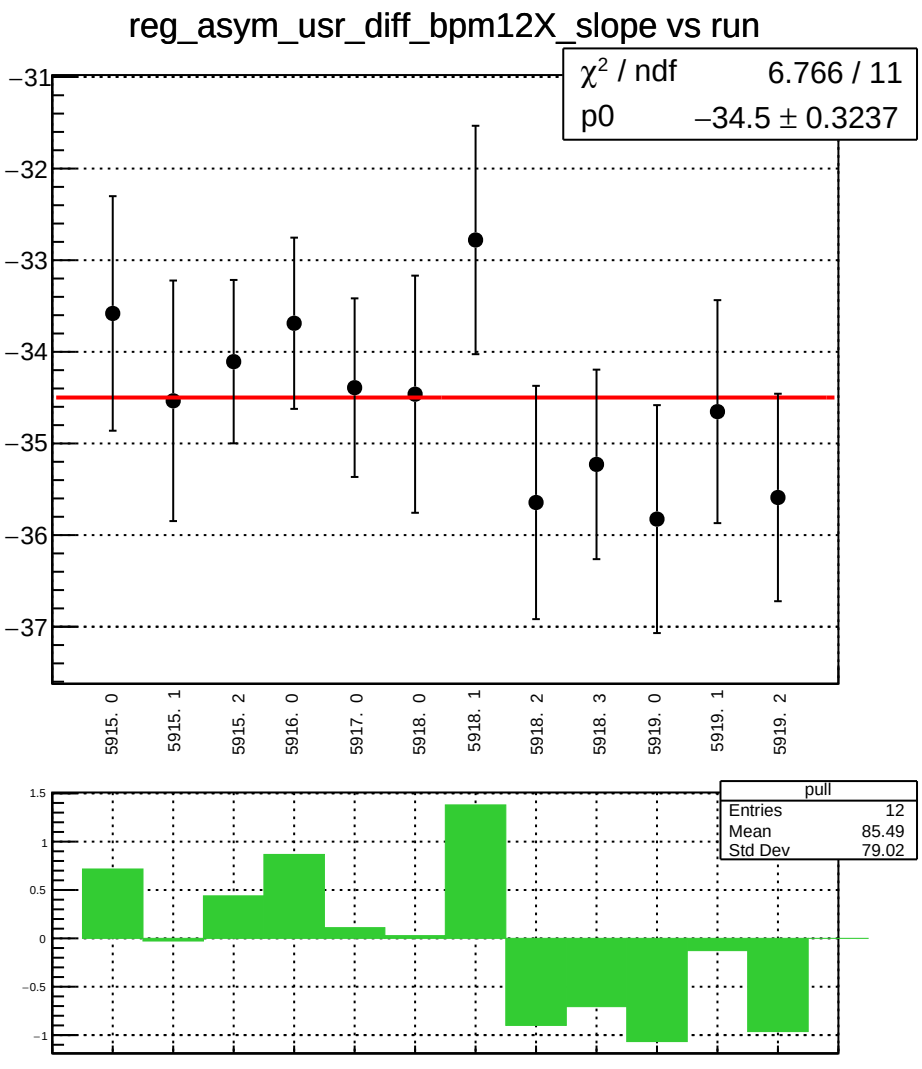

pull1D
Entries 12
Mean −0.02899
Std Dev 0.5438
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

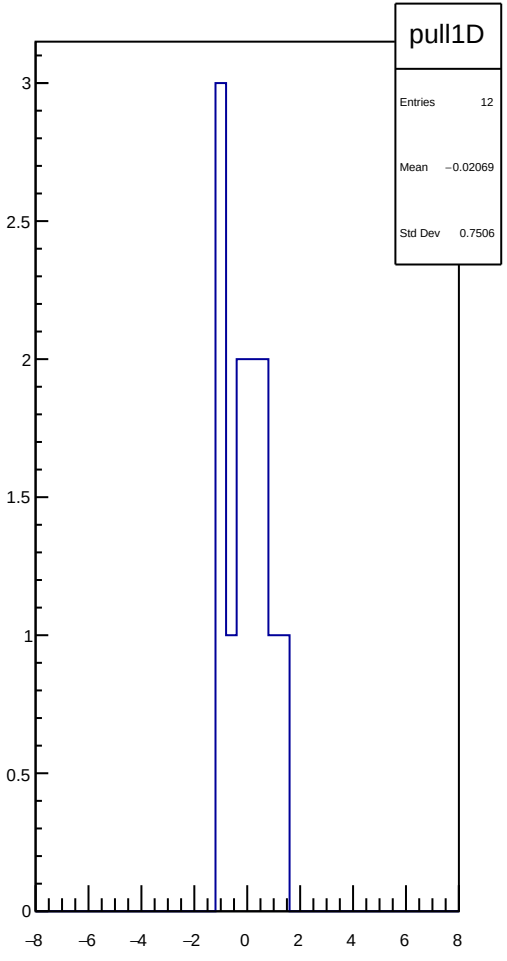

reg_asym_usr_diff_bpm4eX_slope vs run
χ2 / ndf 8.051 / 11
p0 178 ± 7.516
240
220
200
180
160
140
120
100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 29.51
Std Dev 20.9
1
0.5
0
−0.5
−1
−1.5

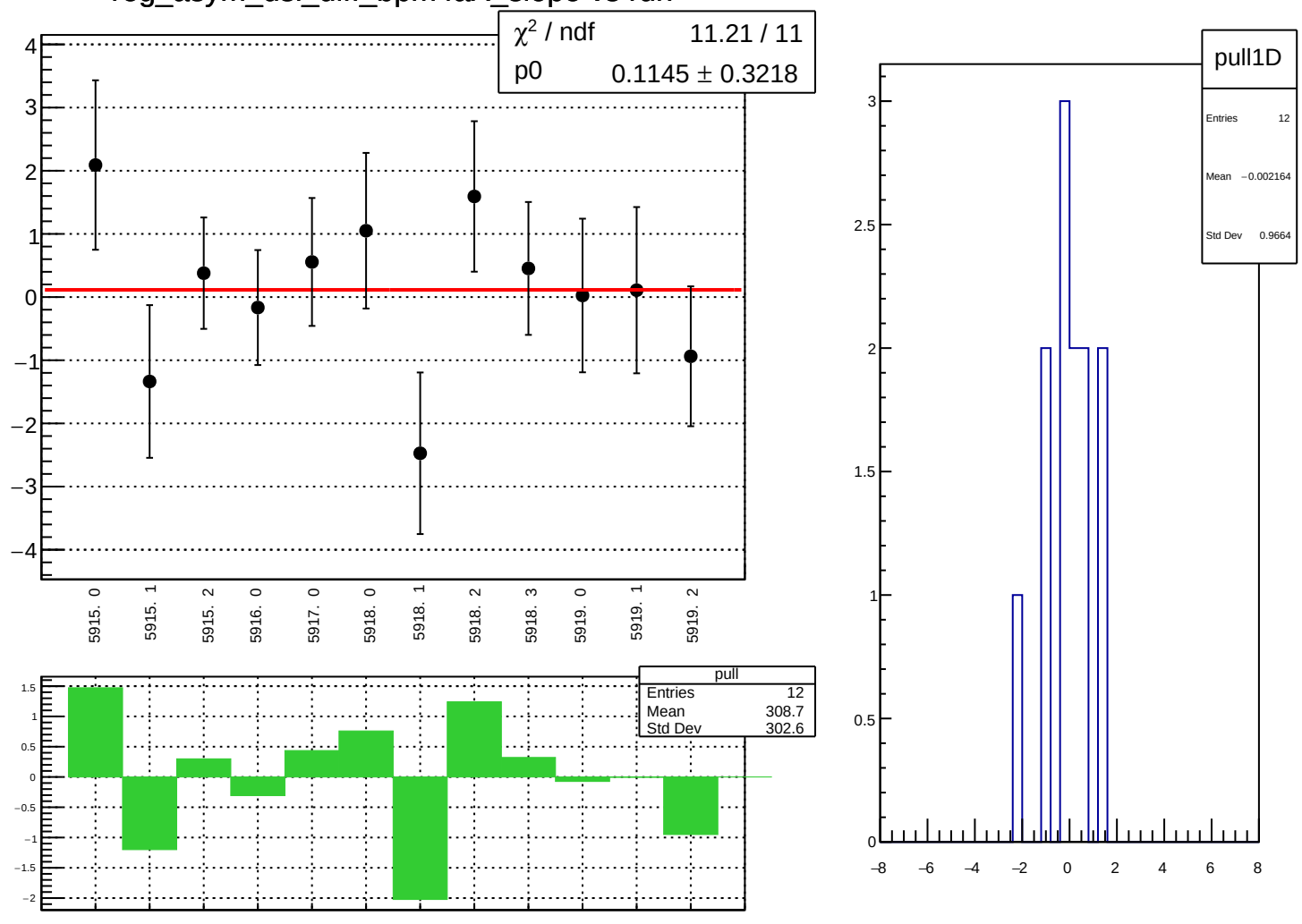

pull1D
Entries 12
Mean 0.009176
Std Dev 0.819
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

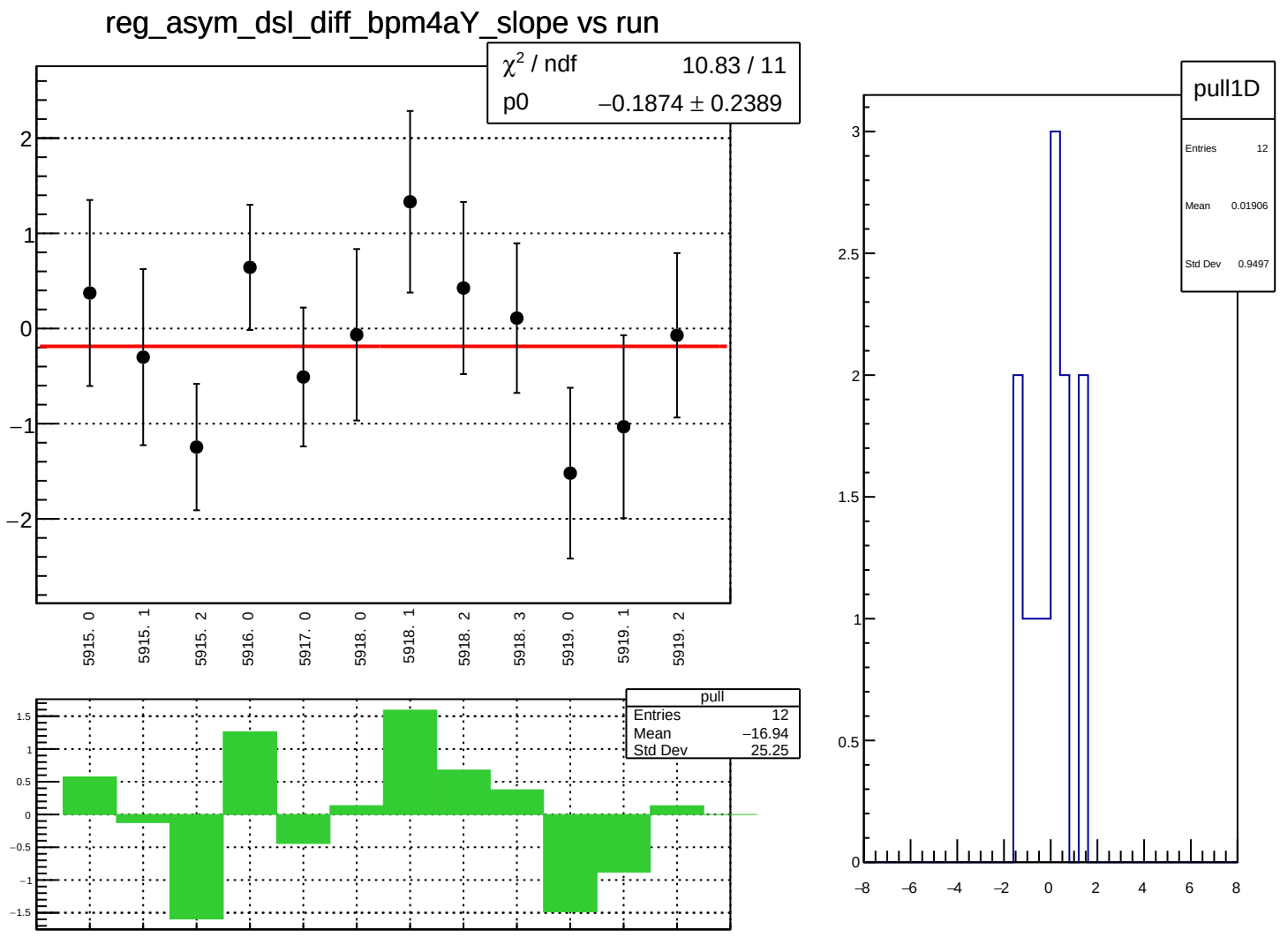

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 3.641 / 11
p0 10.24 ± 4.861
50
40
30
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −13.95
Std Dev 20.81
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

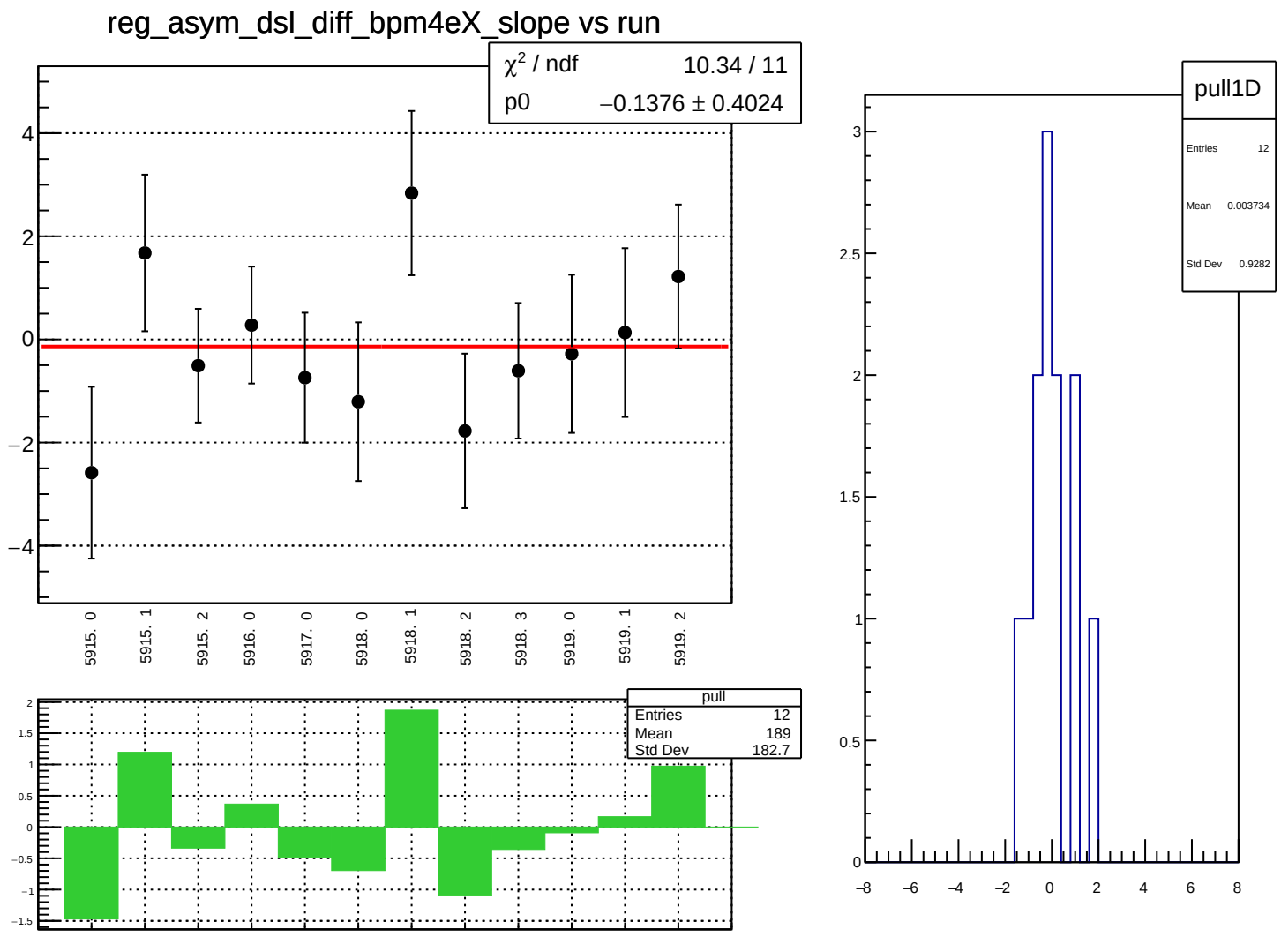

pull1D
Entries 12
Mean 0.02725
Std Dev 0.5501
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

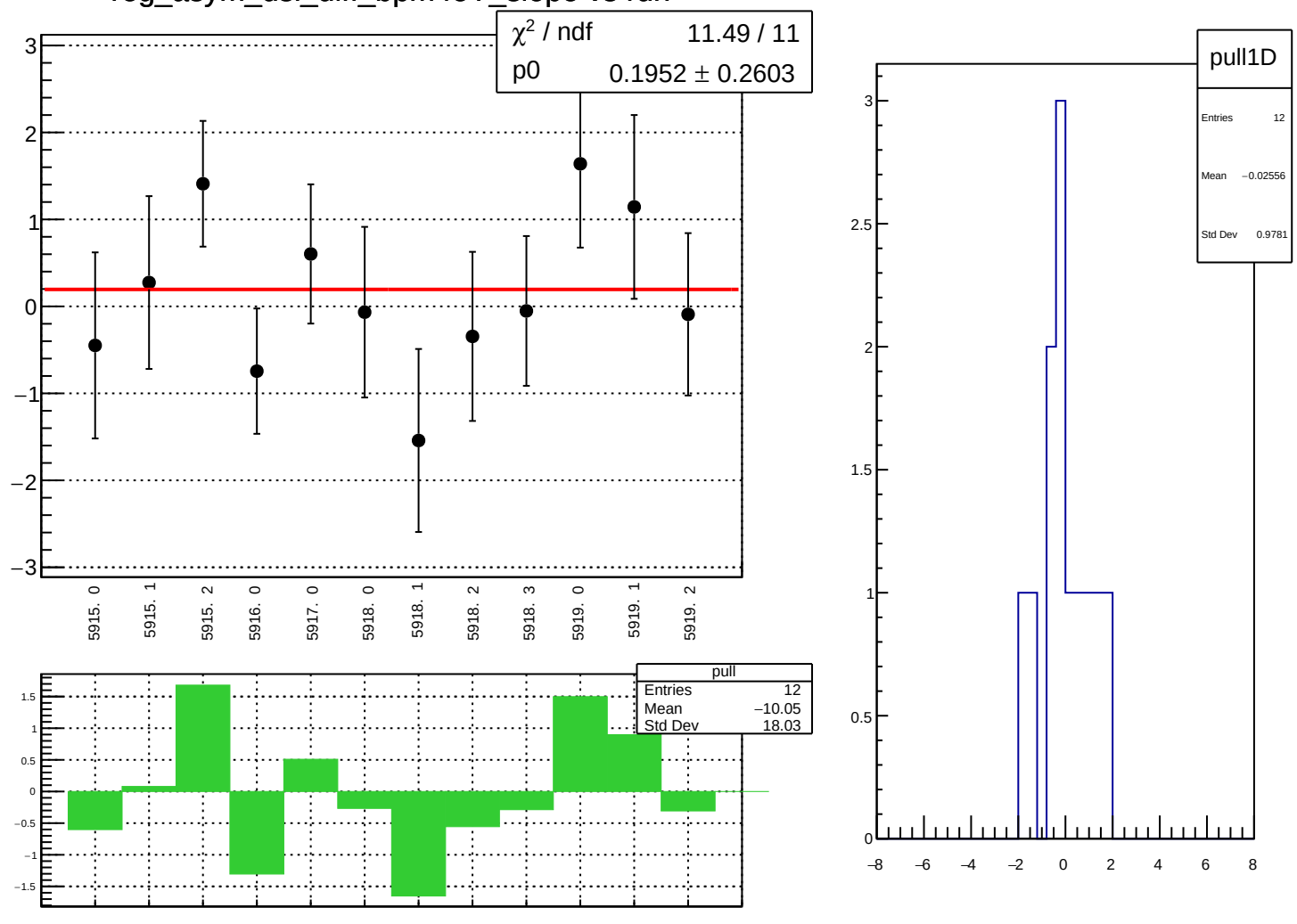

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 6.766 / 11
p0 −34.5 ± 0.3237
−31
−32
−33
−34
−35
−36
−37
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 85.49
Std Dev 79.02
1.5
1
0.5
0
−0.5
−1

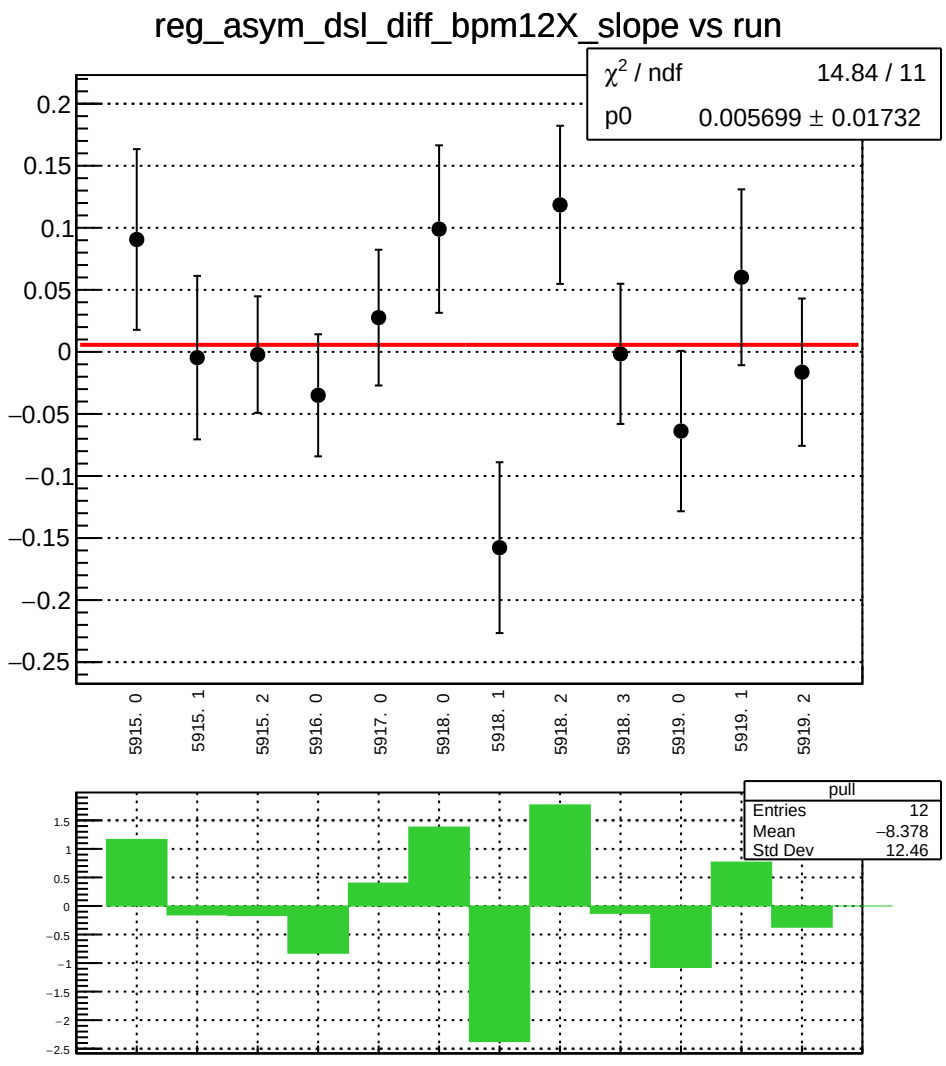

pull1D
Entries 12
Mean −0.02069
Std Dev 0.7506
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

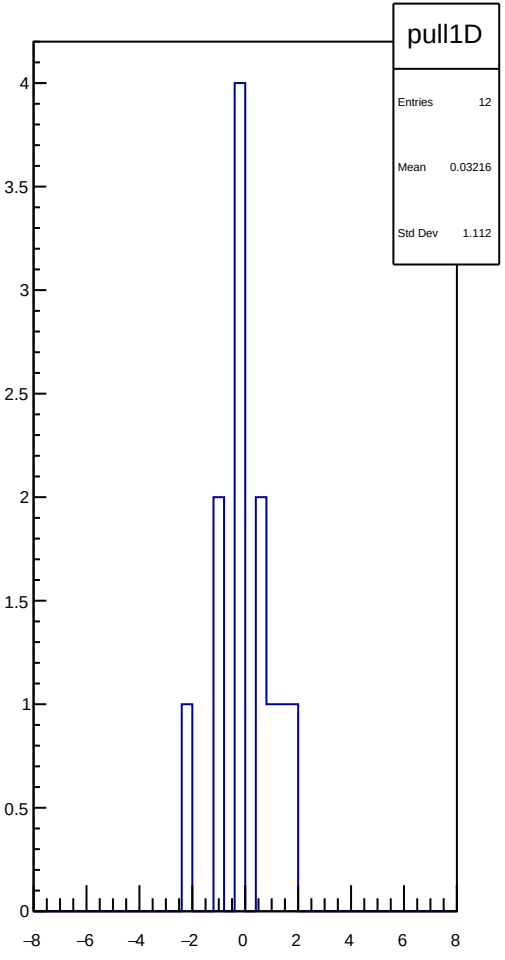

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 11.21 / 11
p0 0.1145 ± 0.3218
4
3
2
1
0
−1
−2
−3
−4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 308.7
Std Dev 302.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean −0.002164
Std Dev 0.9664
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

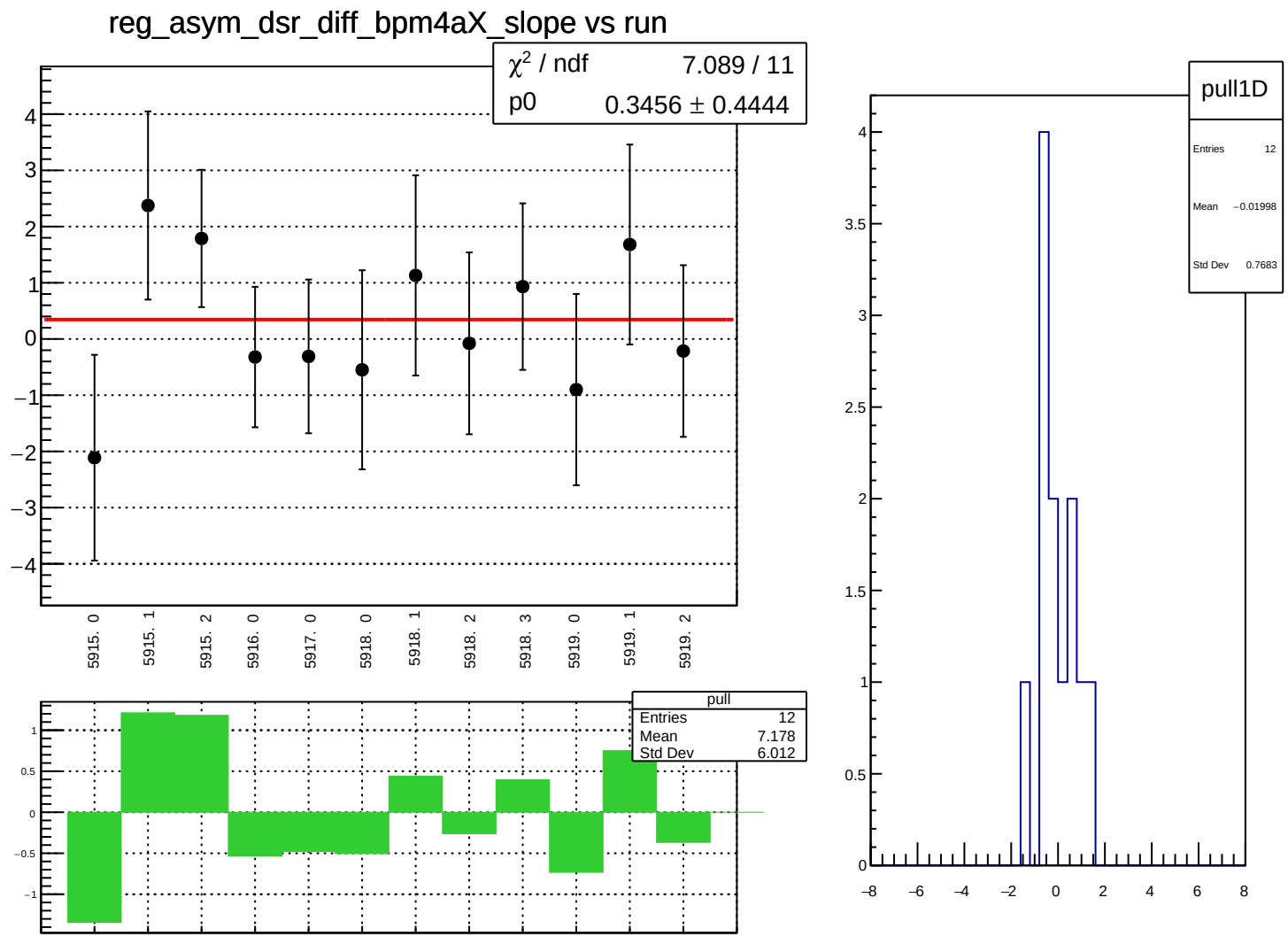

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 10.83 / 11
p0 −0.1874 ± 0.2389
2
1
0
−1
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −16.94
Std Dev 25.25
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.01906
Std Dev 0.9497
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

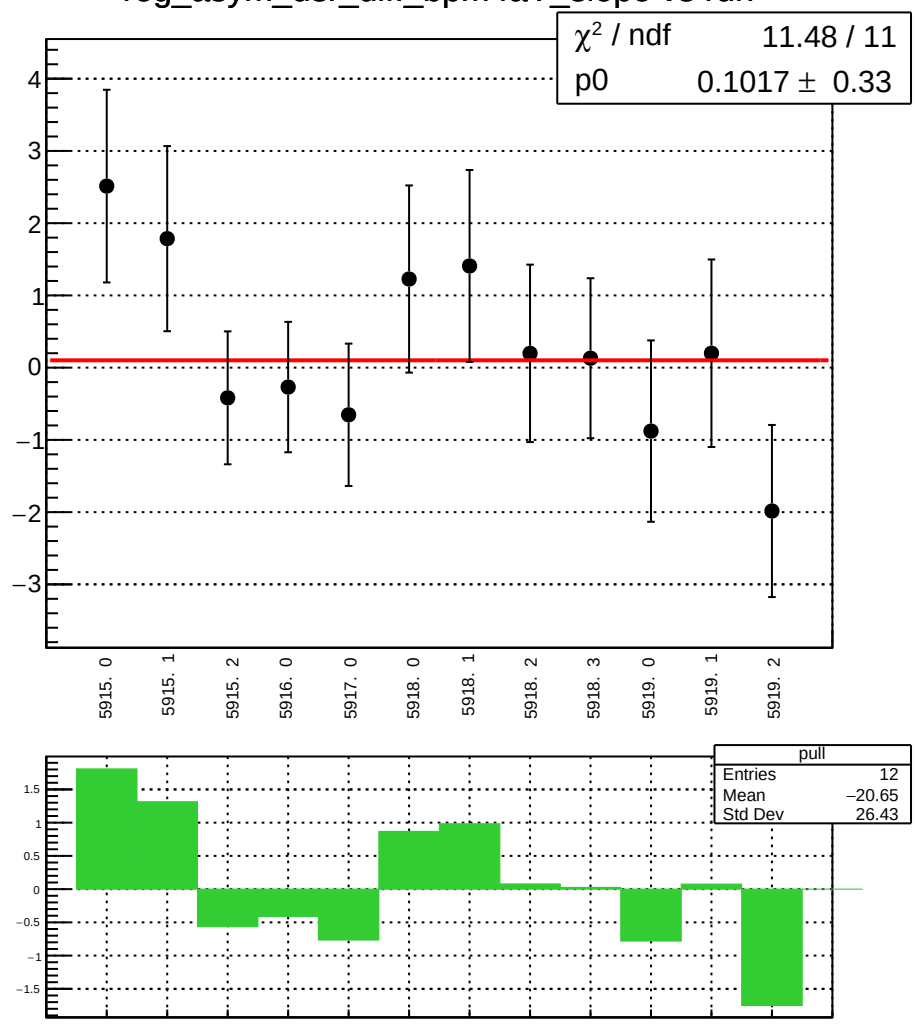

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 10.34 / 11
p0 −0.1376 ± 0.4024
4
2
0
−2
−4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 189
Std Dev 182.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.003734
Std Dev 0.9282
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

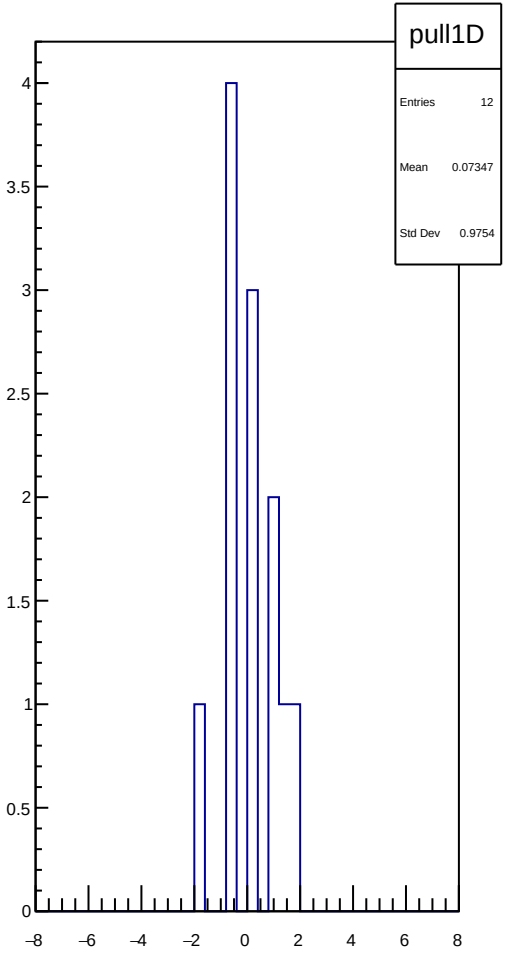

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 11.49 / 11
p0 0.1952 ± 0.2603
3
2
1
0
−1
−2
−3
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −10.05
Std Dev 18.03
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.02556
Std Dev 0.9781
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

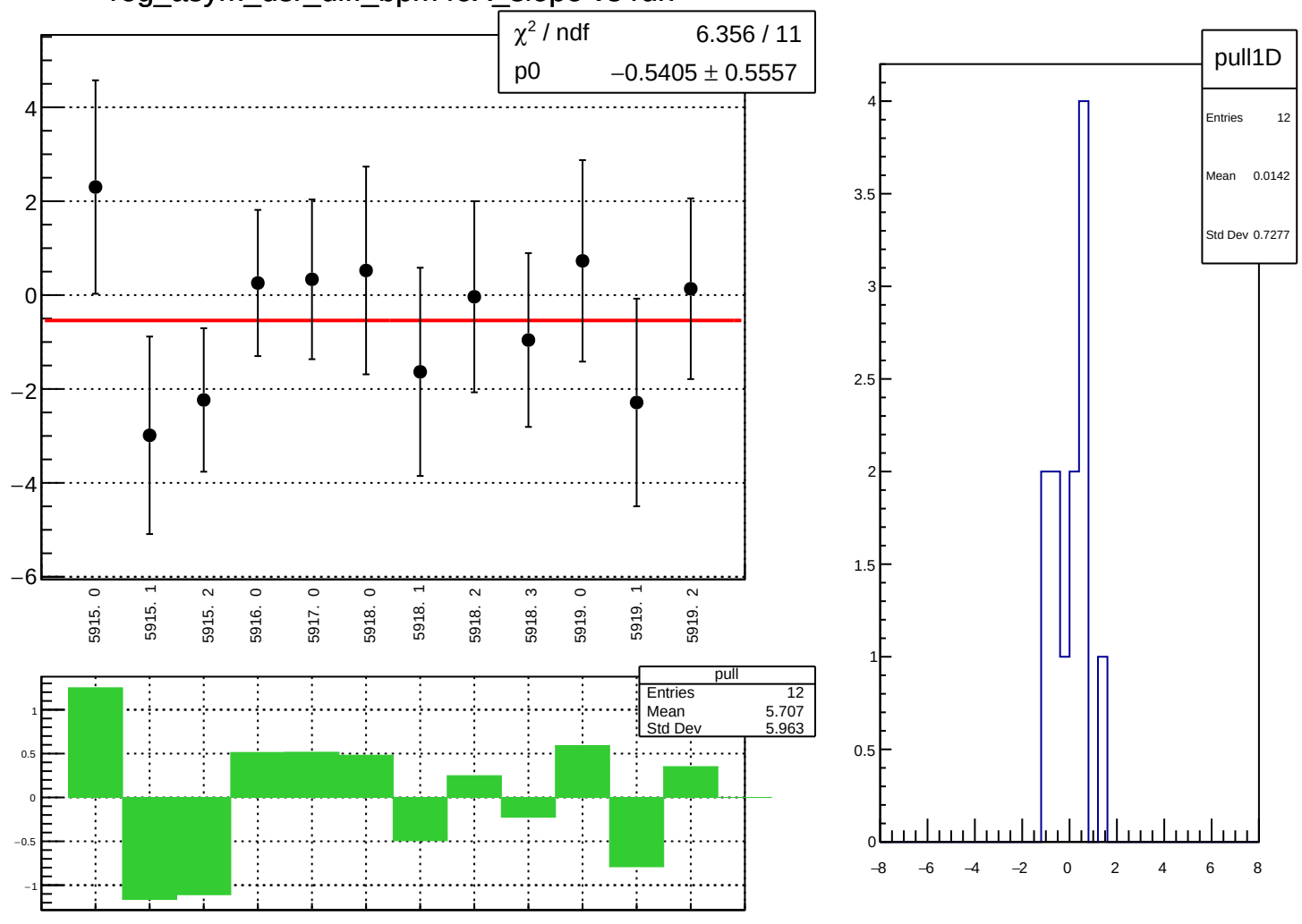

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 14.84 / 11
p0 0.005699 ± 0.01732
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −8.378
Std Dev 12.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

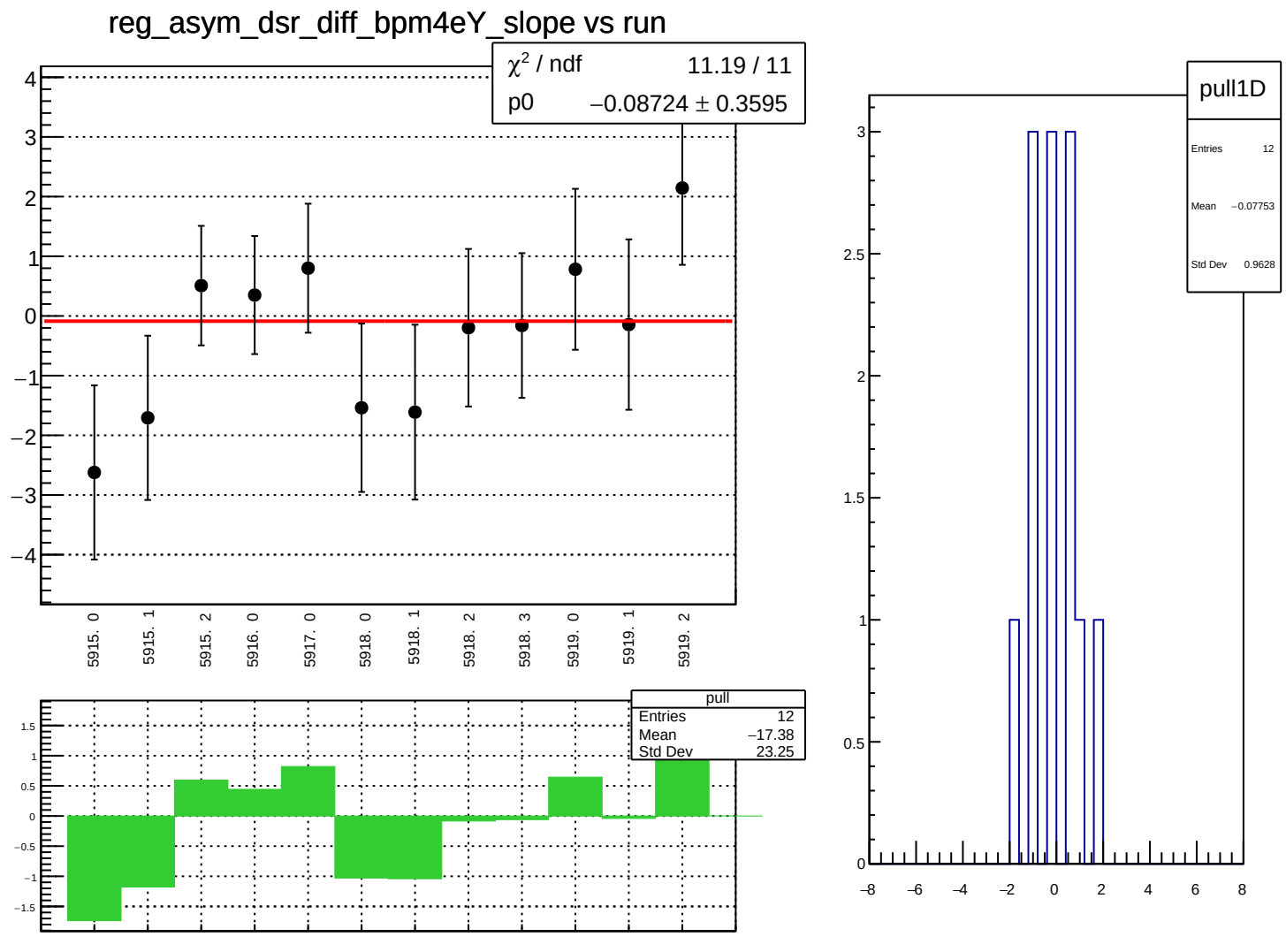

pull1D
Entries 12
Mean 0.03216
Std Dev 1.112
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

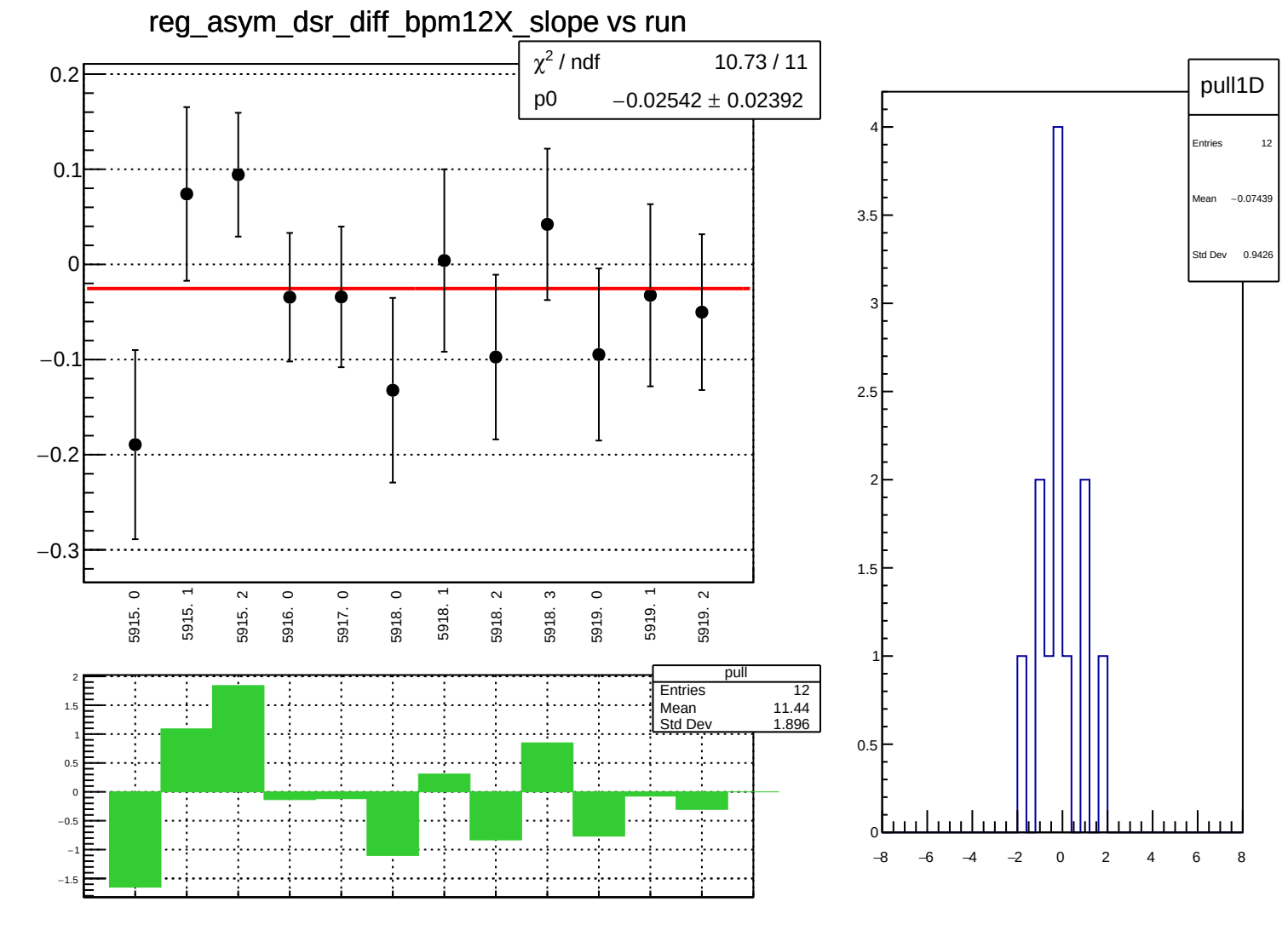

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 7.089 / 11
p0 0.3456 ± 0.4444
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.178
Std Dev 6.012
pull1D
Entries 12
Mean −0.01998
Std Dev 0.7683

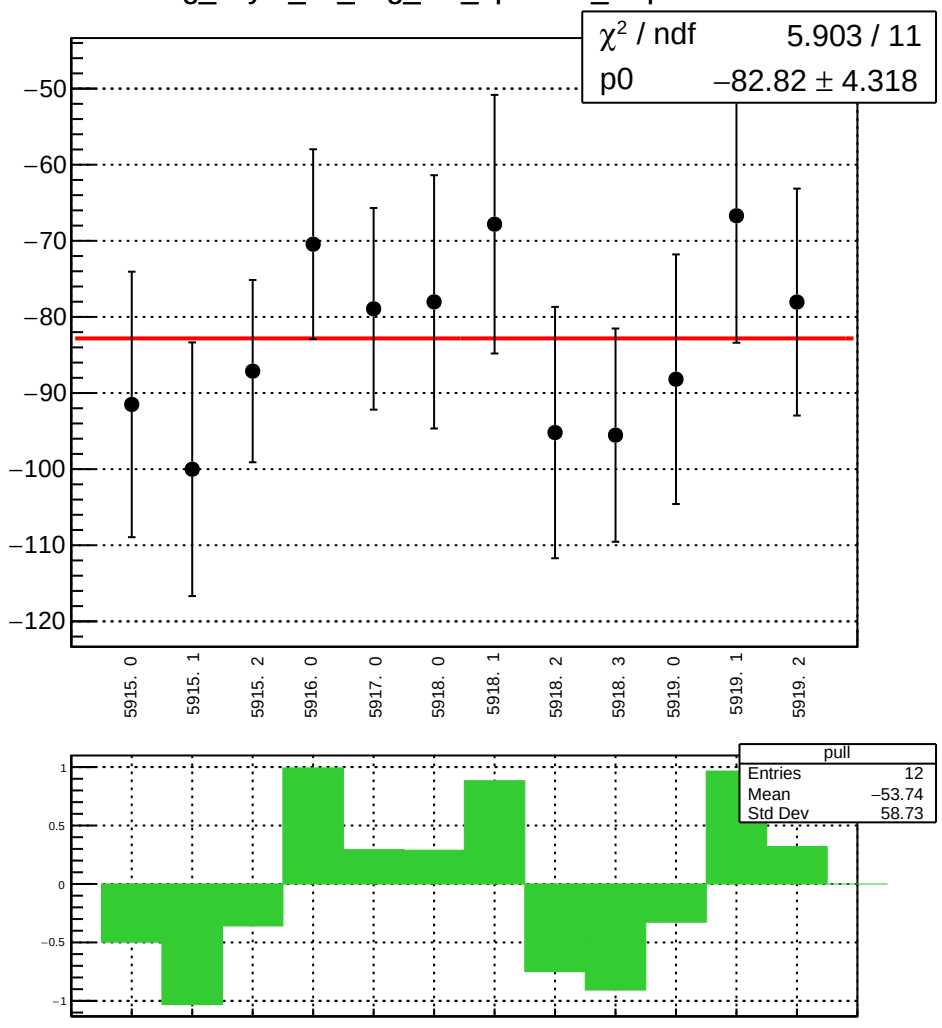

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 11.48 / 11
p0 0.1017 ± 0.33
4
3
2
1
0
−1
−2
−3
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −20.65
Std Dev 26.43
1.5
1
0.5
0
−0.5
−1
−1.5

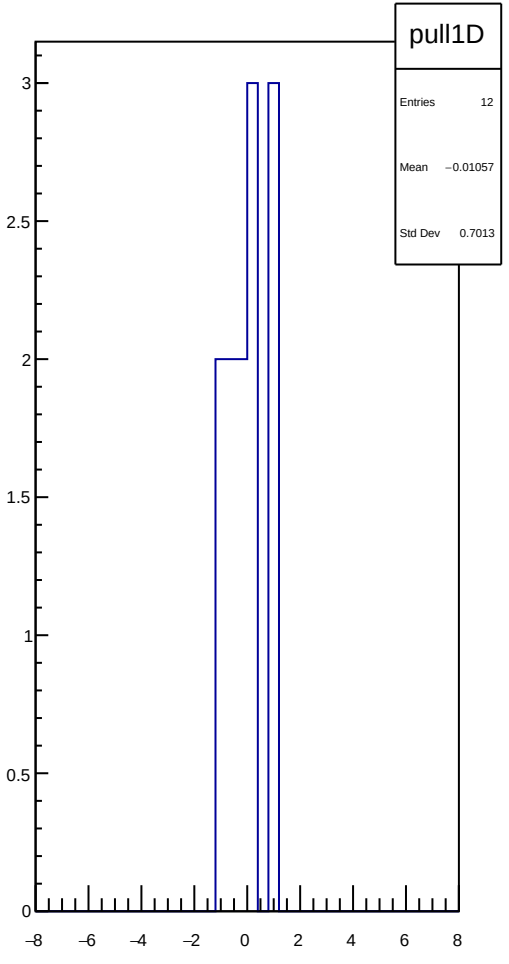

pull1D
Entries 12
Mean 0.07347
Std Dev 0.9754
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

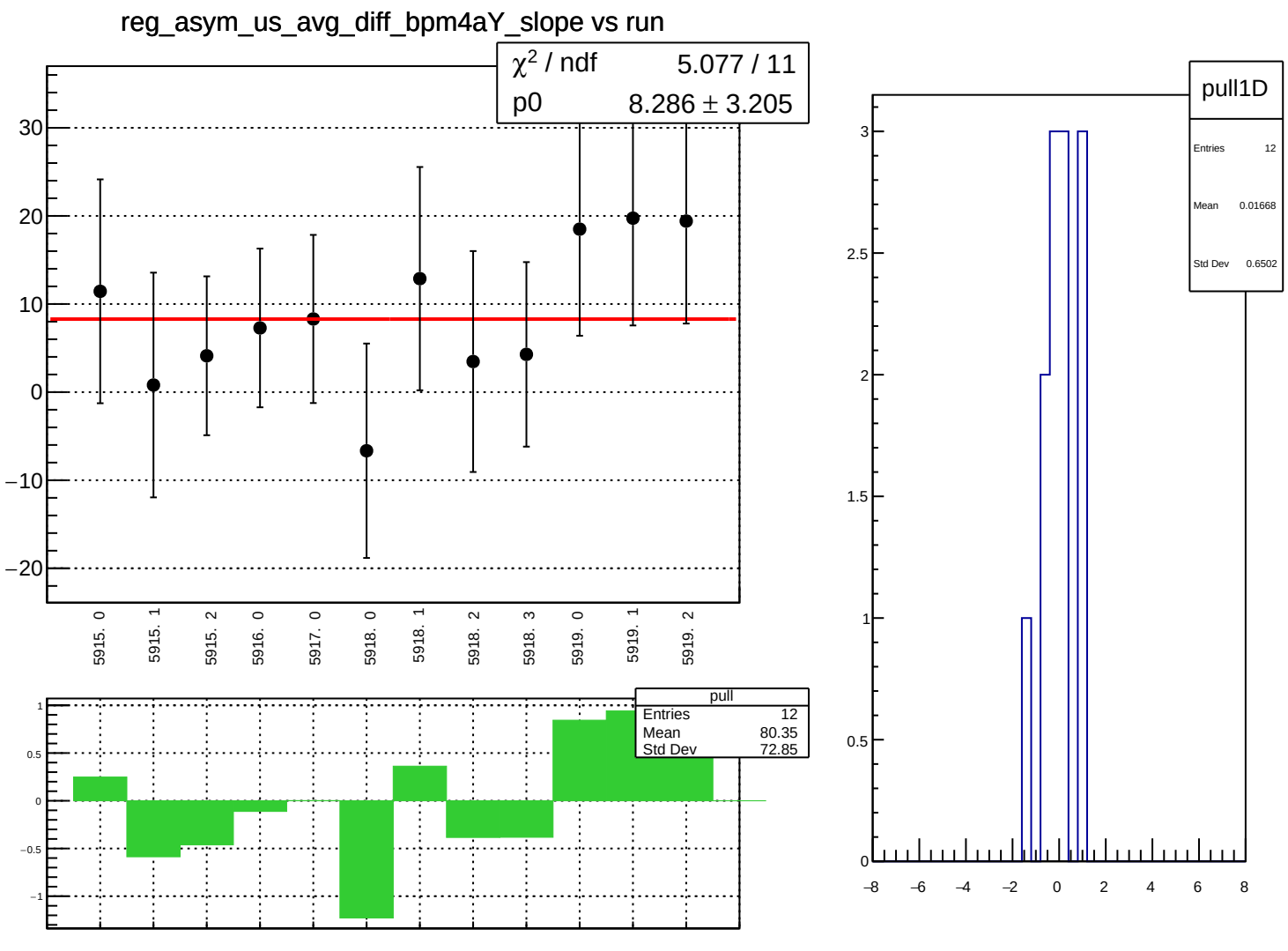

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 6.356 / 11
p0 −0.5405 ± 0.5557
4
2
0
−2
−4
−6
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 5.707
Std Dev 5.963
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.0142
Std Dev 0.7277
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

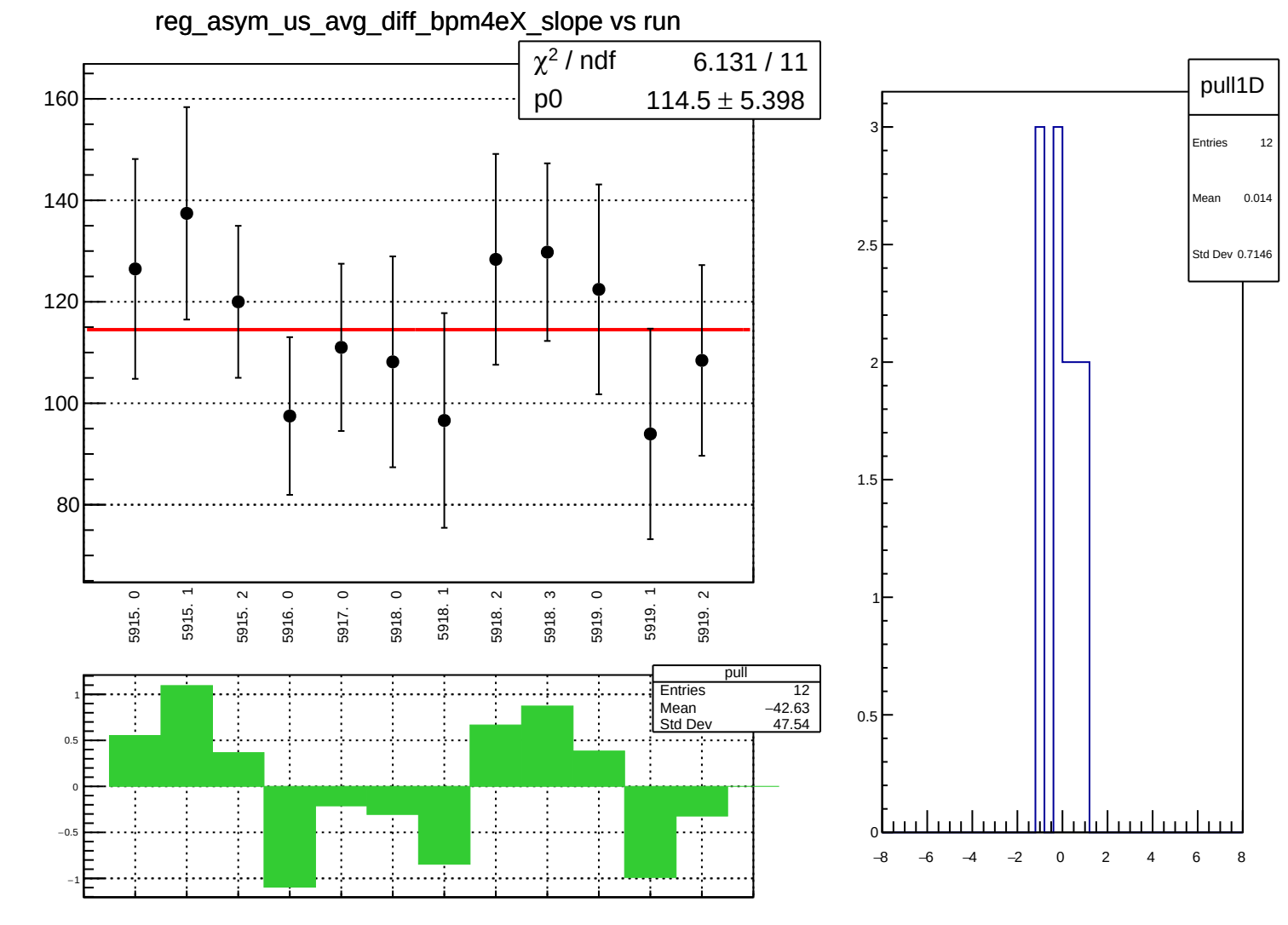

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 11.19 / 11
p0 −0.08724 ± 0.3595
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −17.38
Std Dev 23.25
pull1D
Entries 12
Mean −0.07753
Std Dev 0.9628

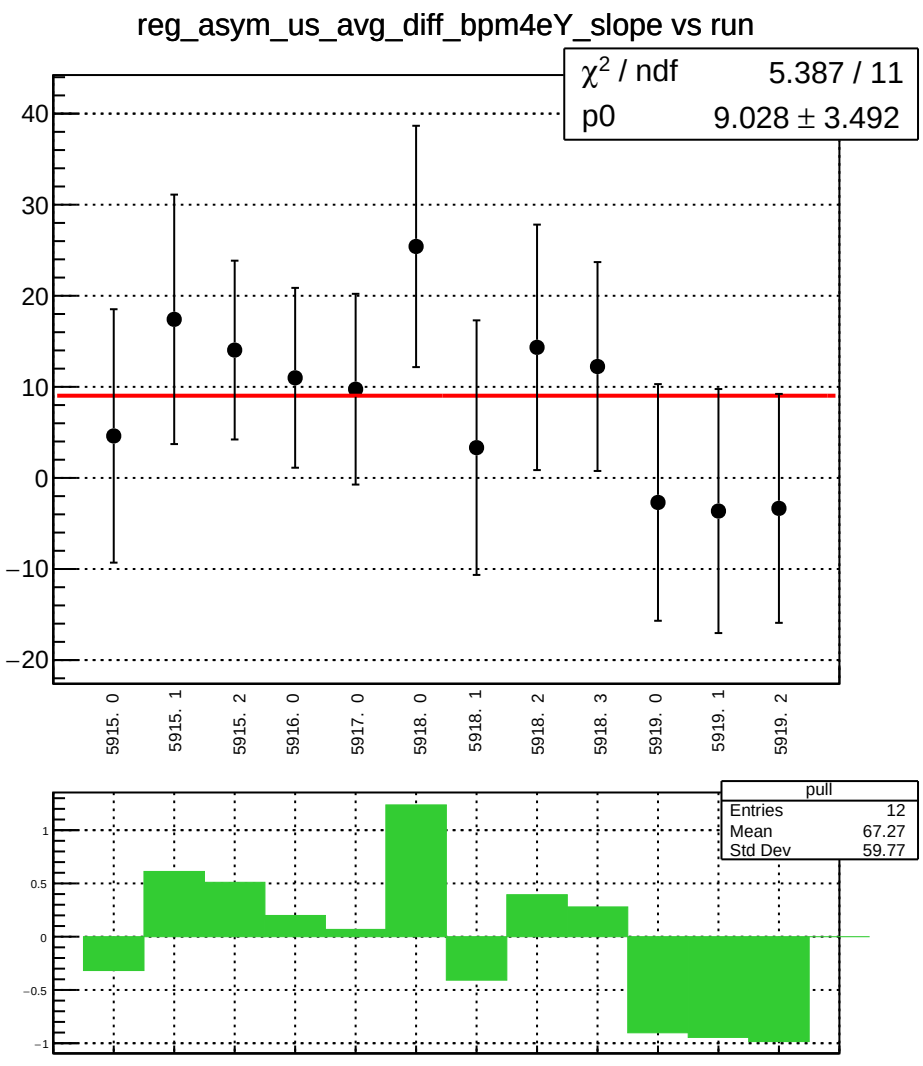

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 10.73 / 11
p0 −0.02542 ± 0.02392
0.2
0.1
0
−0.1
−0.2
−0.3
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.44
Std Dev 1.896
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.07439
Std Dev 0.9426
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

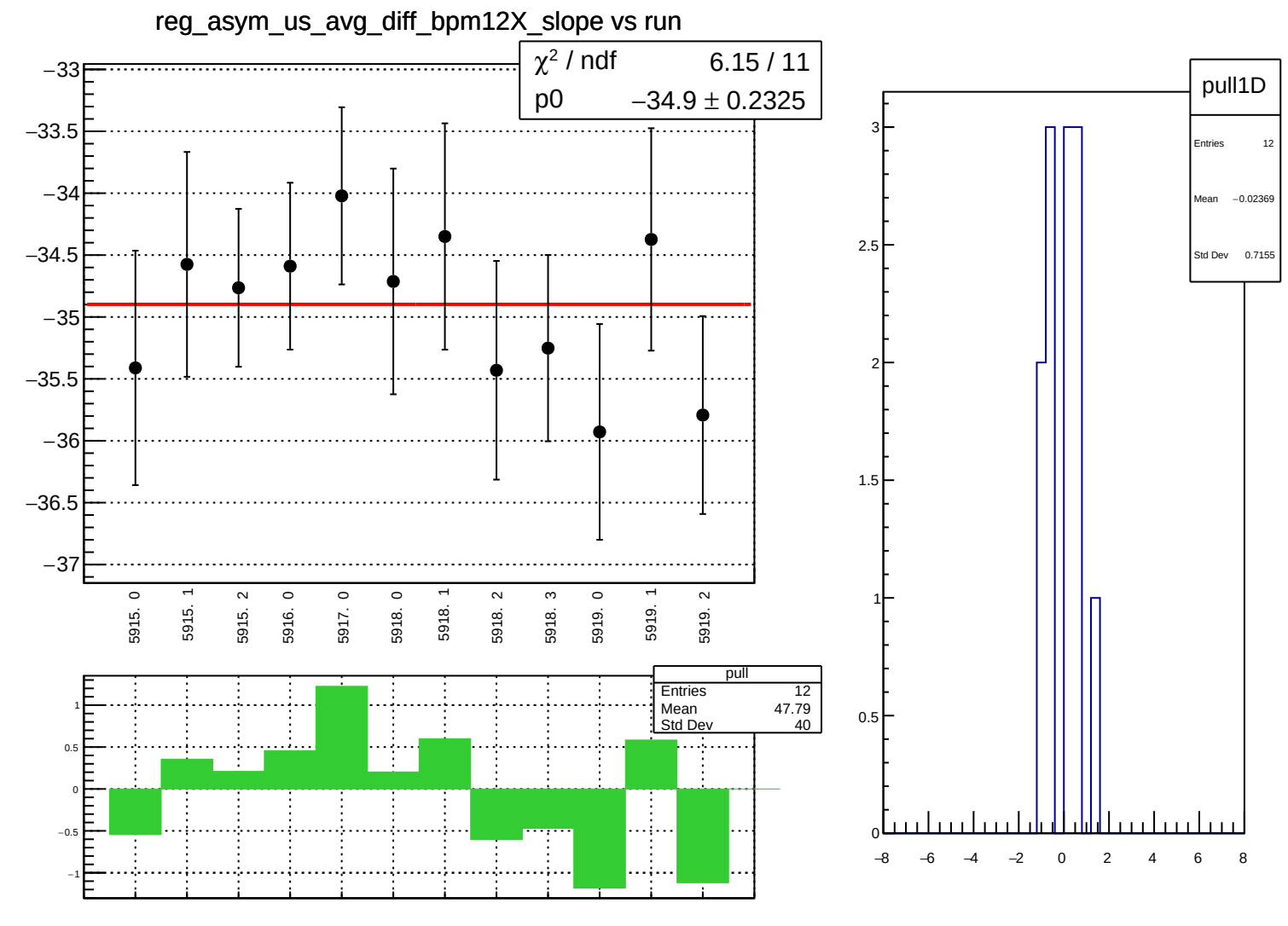

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.903 / 11
p0 −82.82 ± 4.318
−50
−60
−70
−80
−90
−100
−110
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −53.74
Std Dev 58.73
1
0.5
0
−0.5
−1

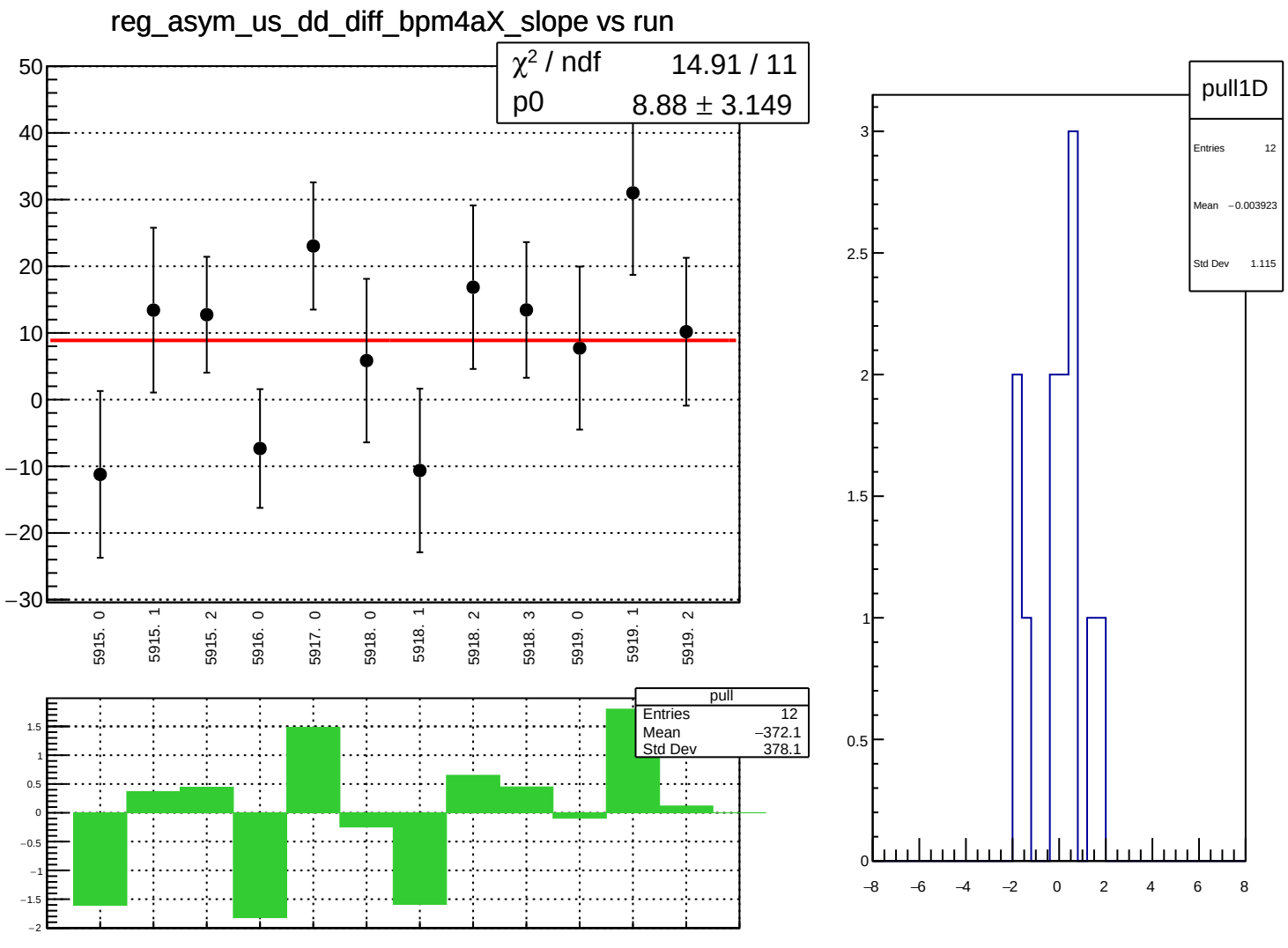

pull1D
Entries 12
Mean −0.01057
Std Dev 0.7013
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

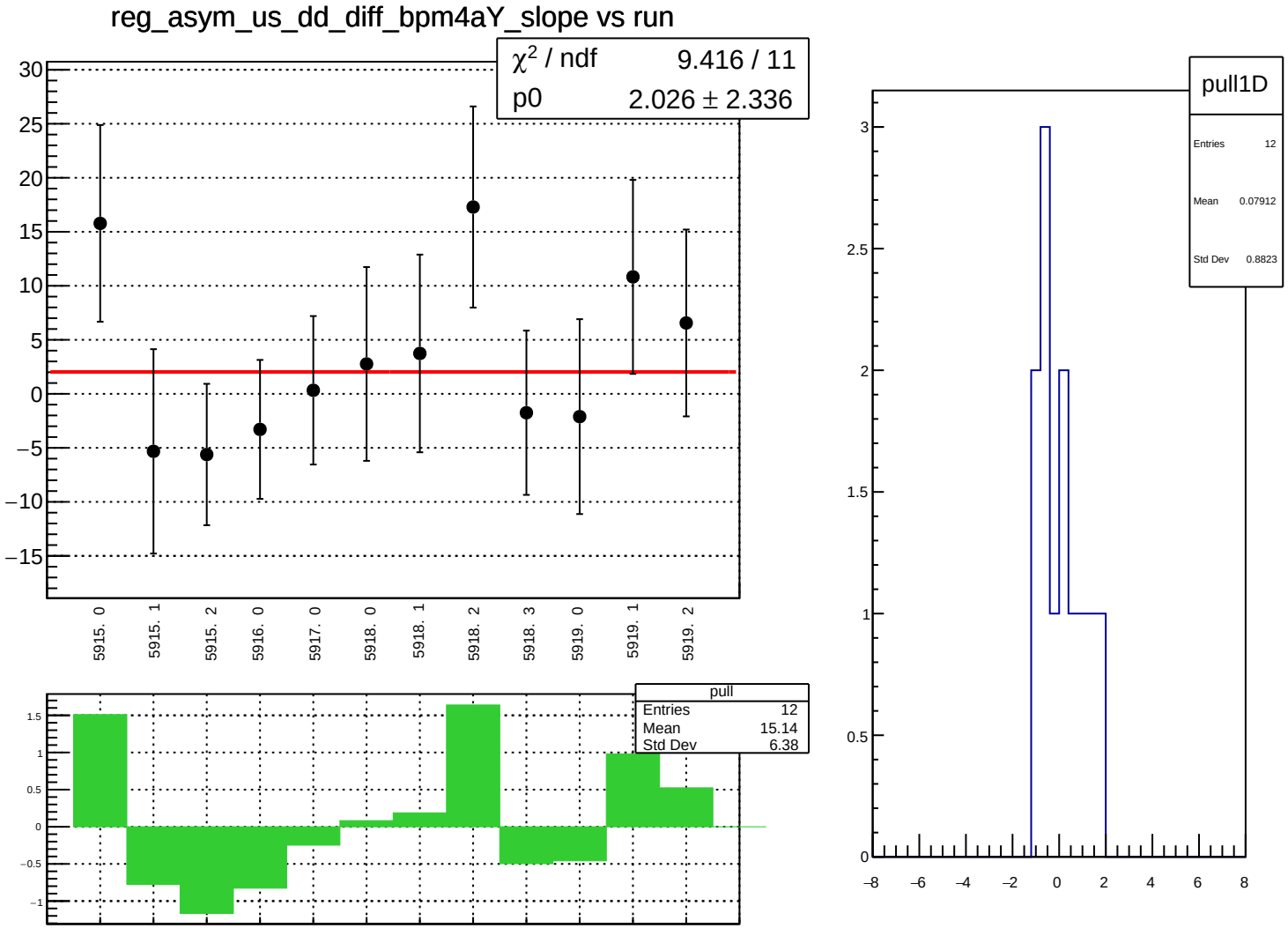

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.077 / 11
p0 8.286 ± 3.205
30
20
10
0
−10
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 80.35
Std Dev 72.85
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.01668
Std Dev 0.6502
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

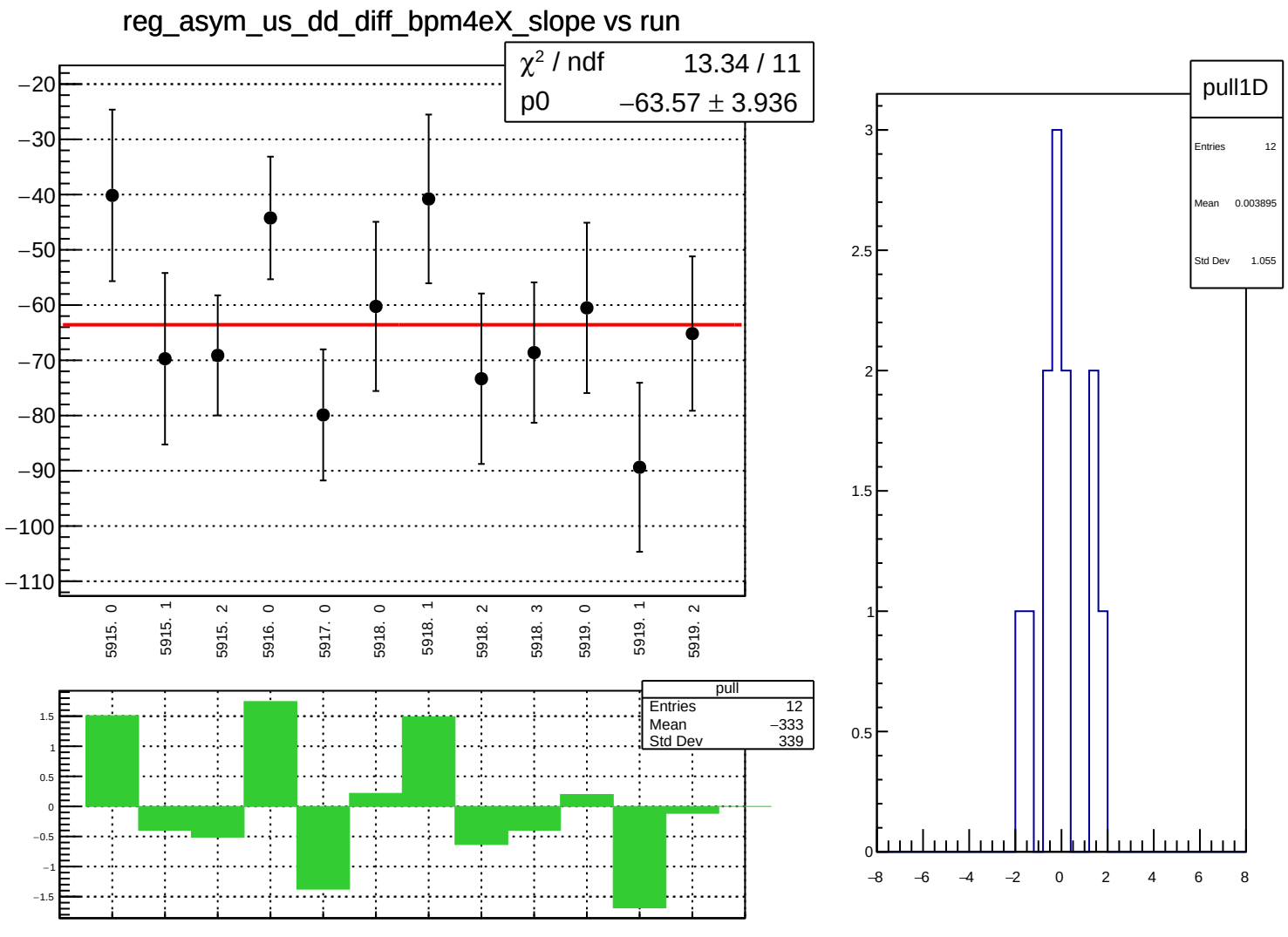

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.131 / 11
p0 114.5 ± 5.398
160
140
120
100
80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −42.63
Std Dev 47.54
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.014
Std Dev 0.7146
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

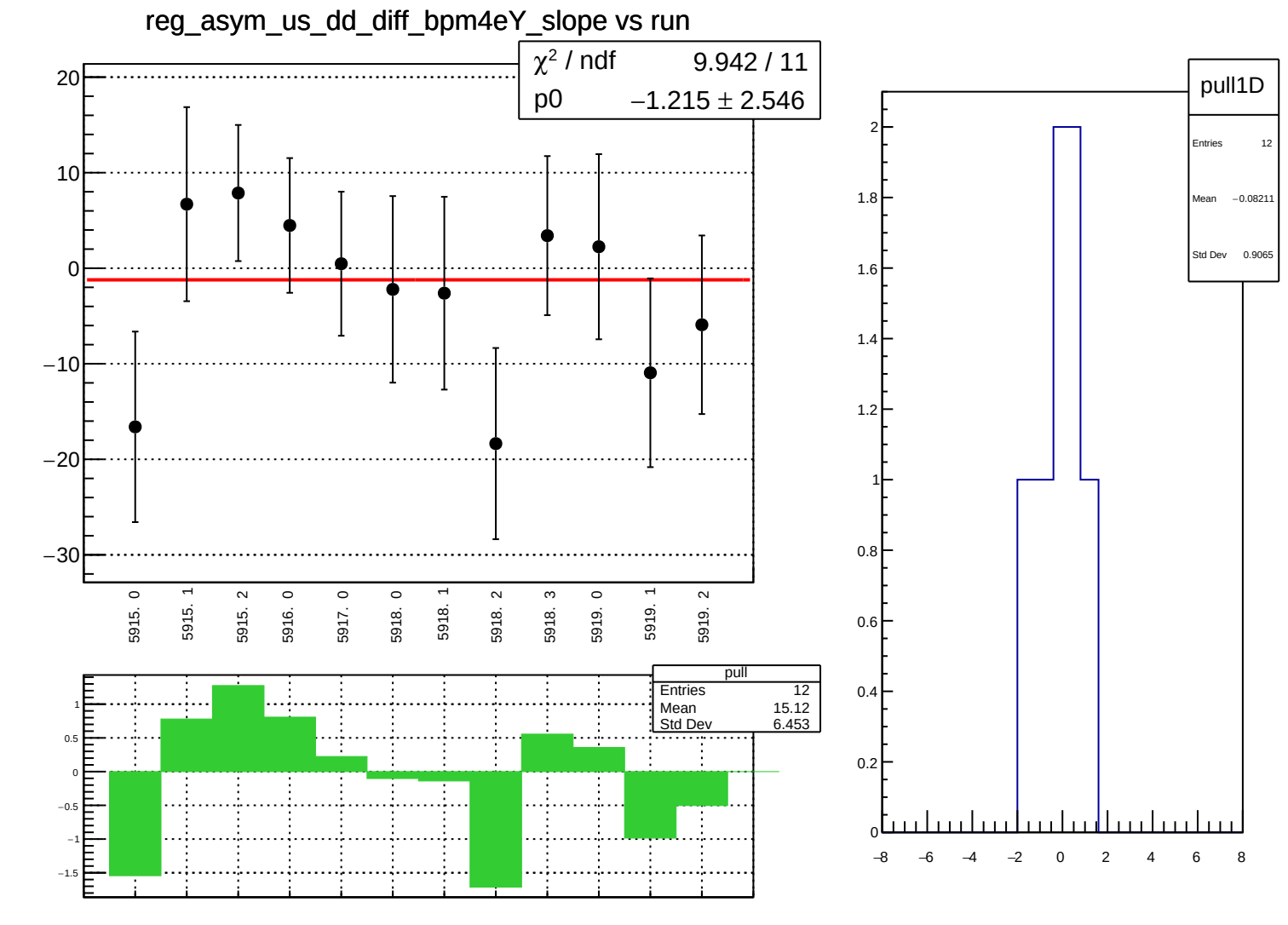

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.387 / 11
p0 9.028 ± 3.492
40
30
20
10
0
−10
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 67.27
Std Dev 59.77
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.02143
Std Dev 0.6696
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

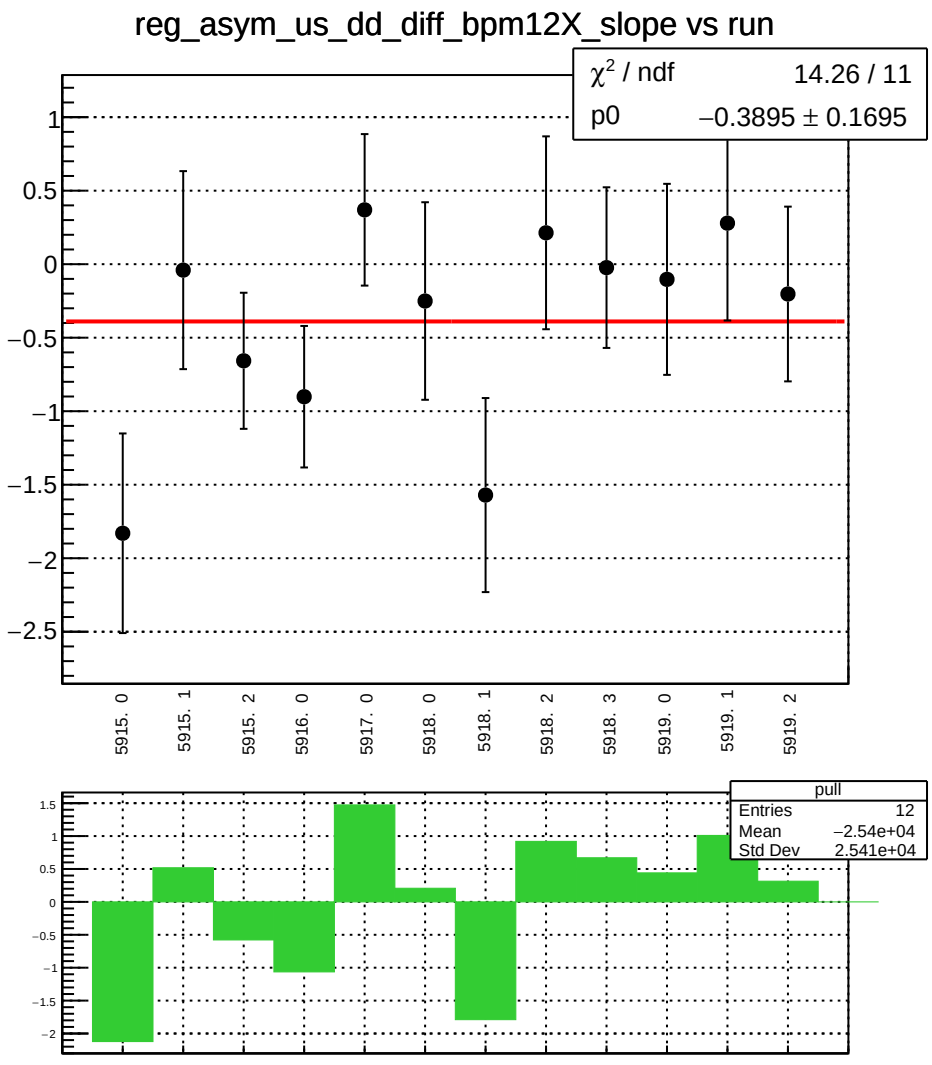

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 6.15 / 11
p0 −34.9 ± 0.2325
−33
−33.5
−34
−34.5
−35
−35.5
−36
−36.5
−37
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 47.79
Std Dev 40
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.02369
Std Dev 0.7155
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

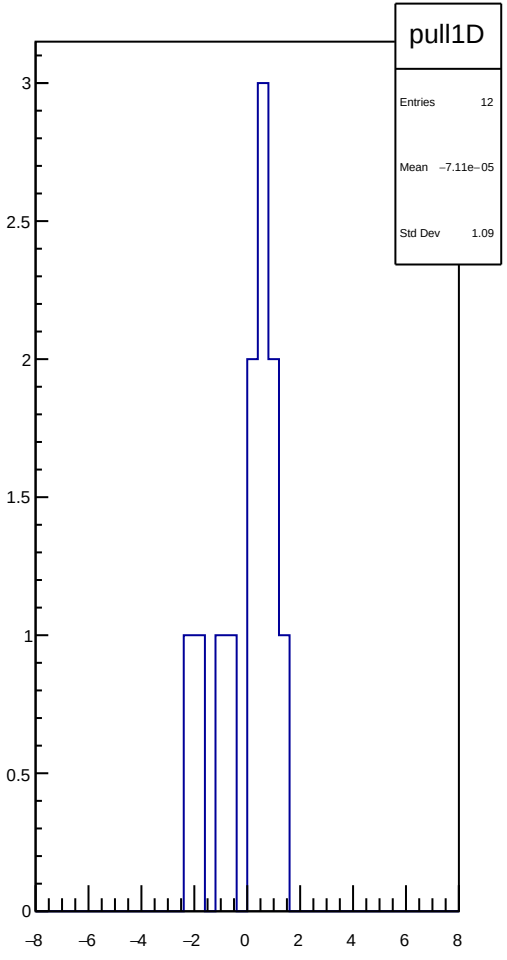

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.91 / 11
p0 8.88 ± 3.149
50
40
30
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −372.1
Std Dev 378.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean −0.003923
Std Dev 1.115
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

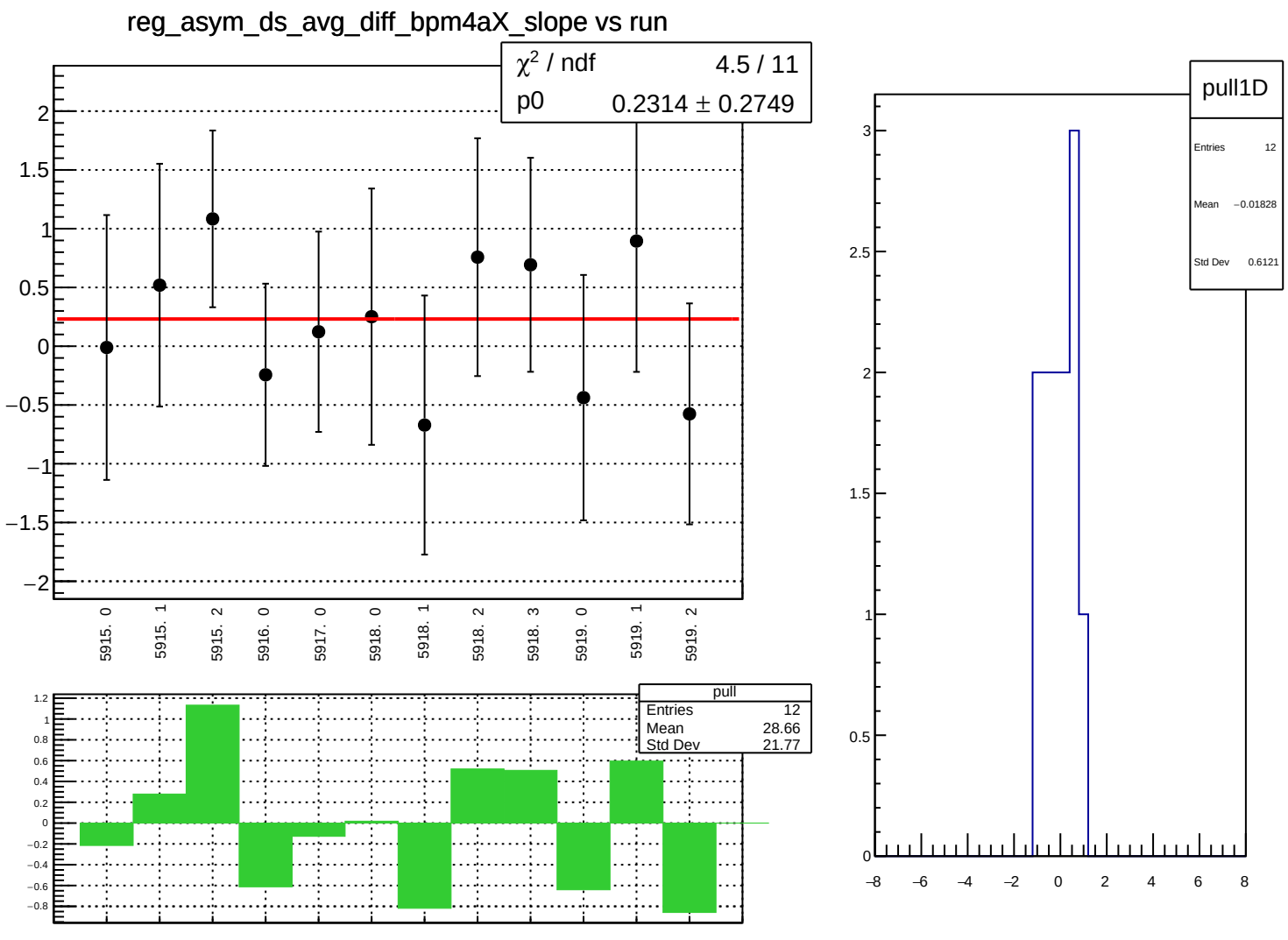

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.416 / 11
p0 2.026 ± 2.336
30
25
20
15
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 15.14
Std Dev 6.38
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.07912
Std Dev 0.8823
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

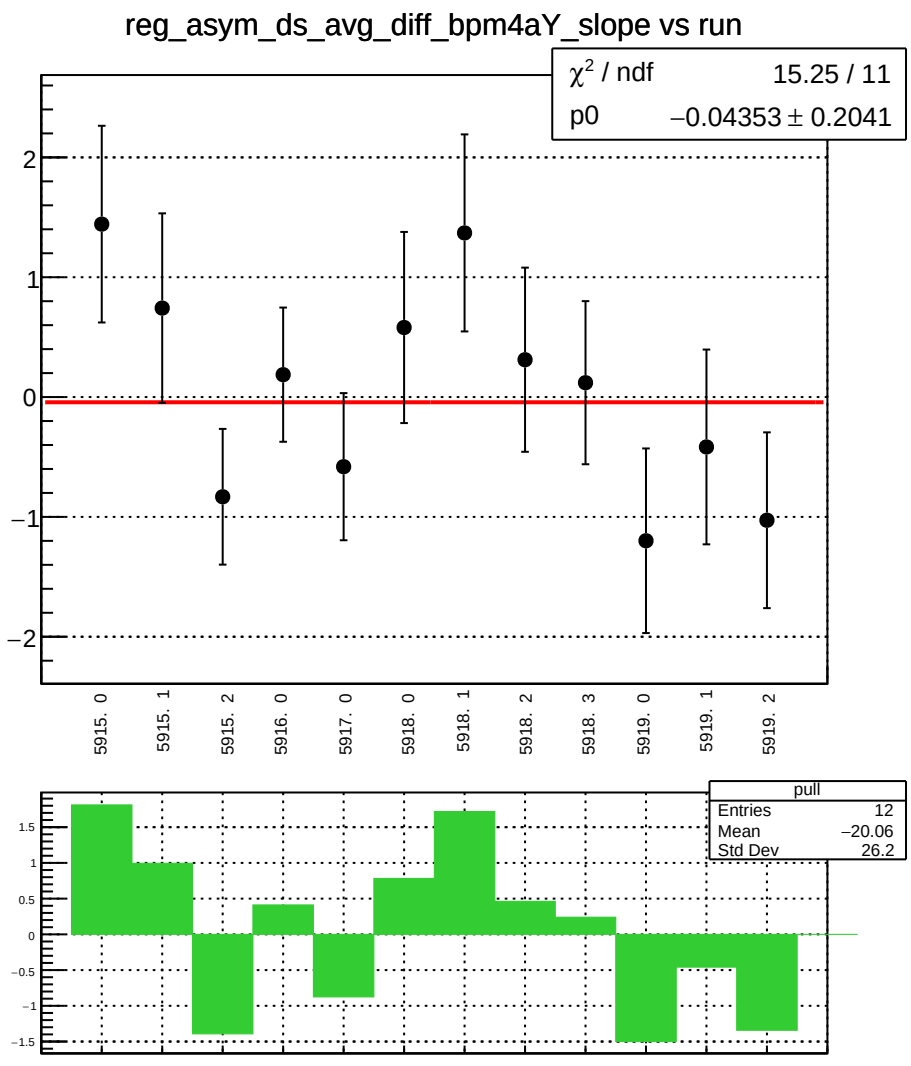

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.34 / 11
p0 −63.57 ± 3.936
−20
−30
−40
−50
−60
−70
−80
−90
−100
−110
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −333
Std Dev 339
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.003895
Std Dev 1.055
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

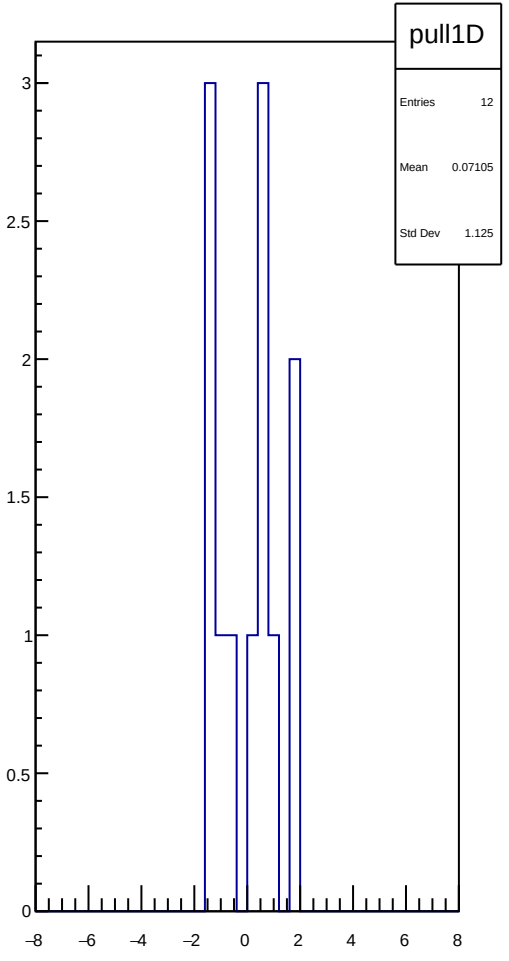

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.942 / 11
p0 −1.215 ± 2.546
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 15.12
Std Dev 6.453
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.08211
Std Dev 0.9065
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

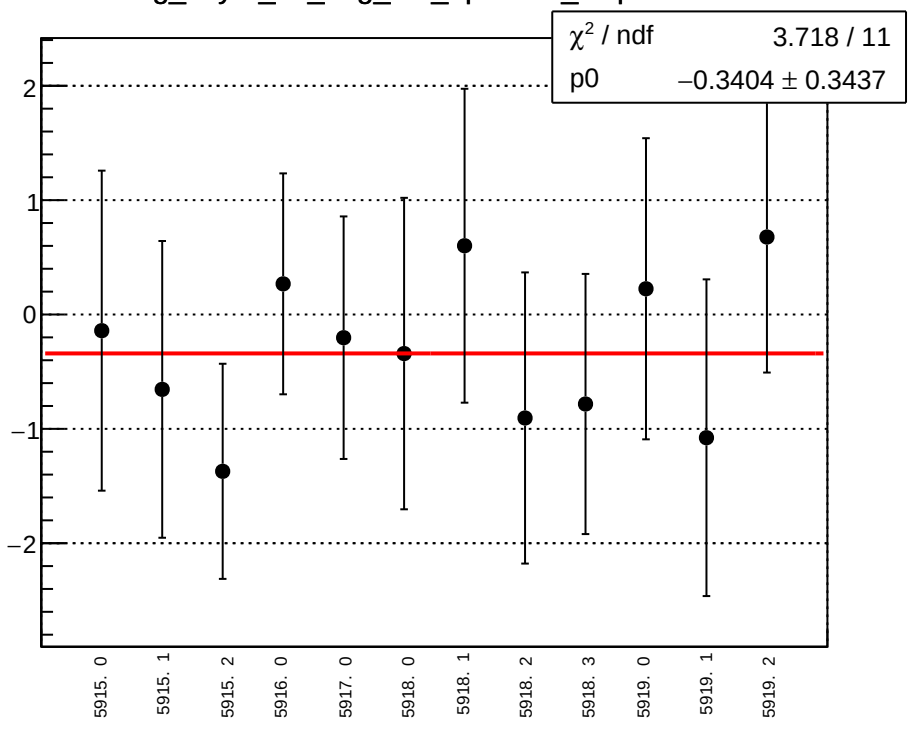

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 14.26 / 11
p0 −0.3895 ± 0.1695
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −2.54e+04
Std Dev 2.541e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

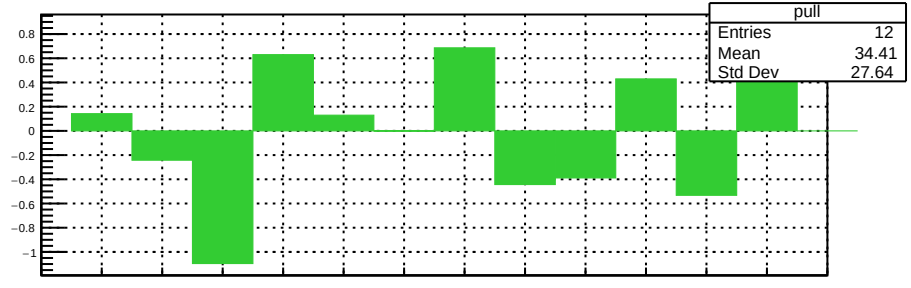

pull1D
Entries 12
Mean −7.11e−05
Std Dev 1.09
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

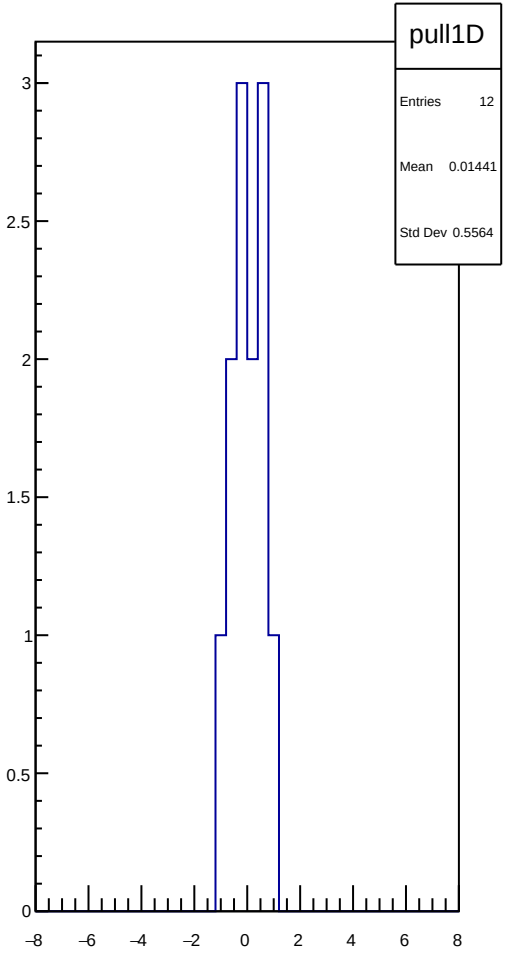

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.5 / 11
p0 0.2314 ± 0.2749
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.66
Std Dev 21.77
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean −0.01828
Std Dev 0.6121
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

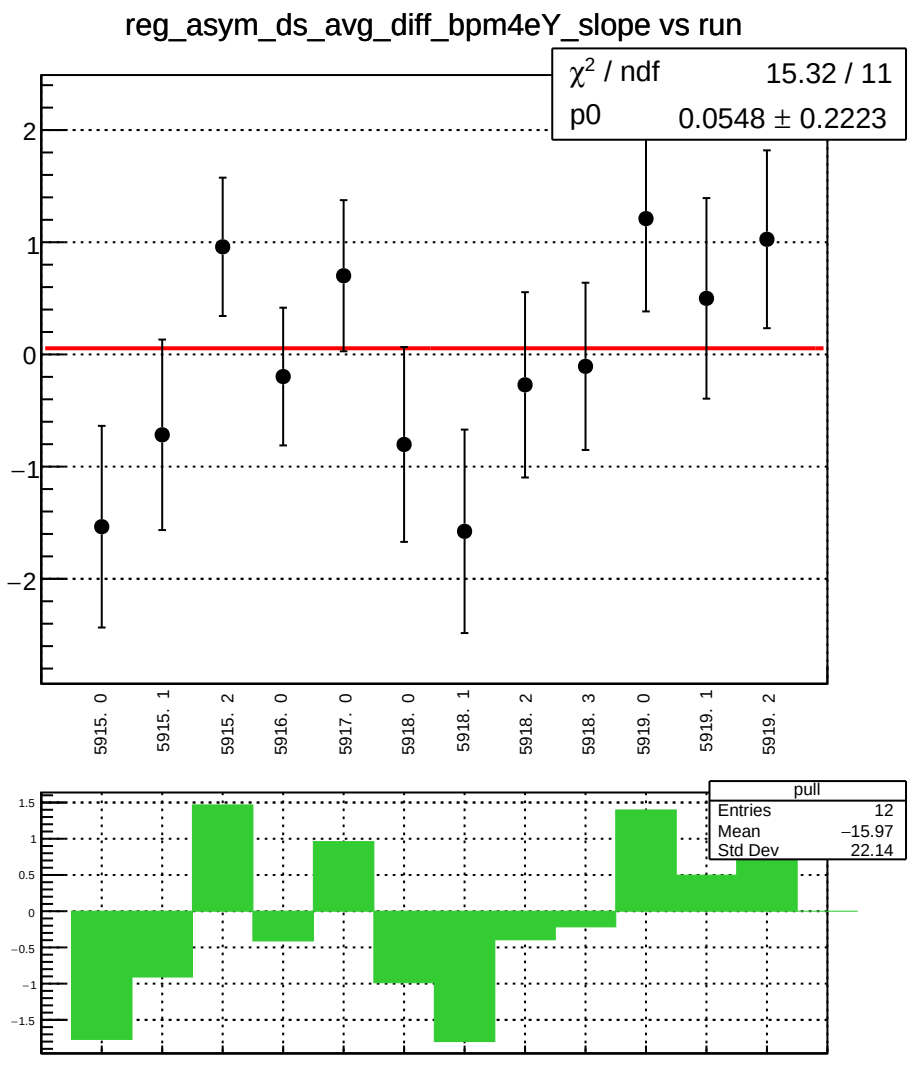

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.25 / 11
p0 −0.04353 ± 0.2041
2
1
0
−1
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −20.06
Std Dev 26.2
1.5
1
0.5
0
−0.5
−1
−1.5

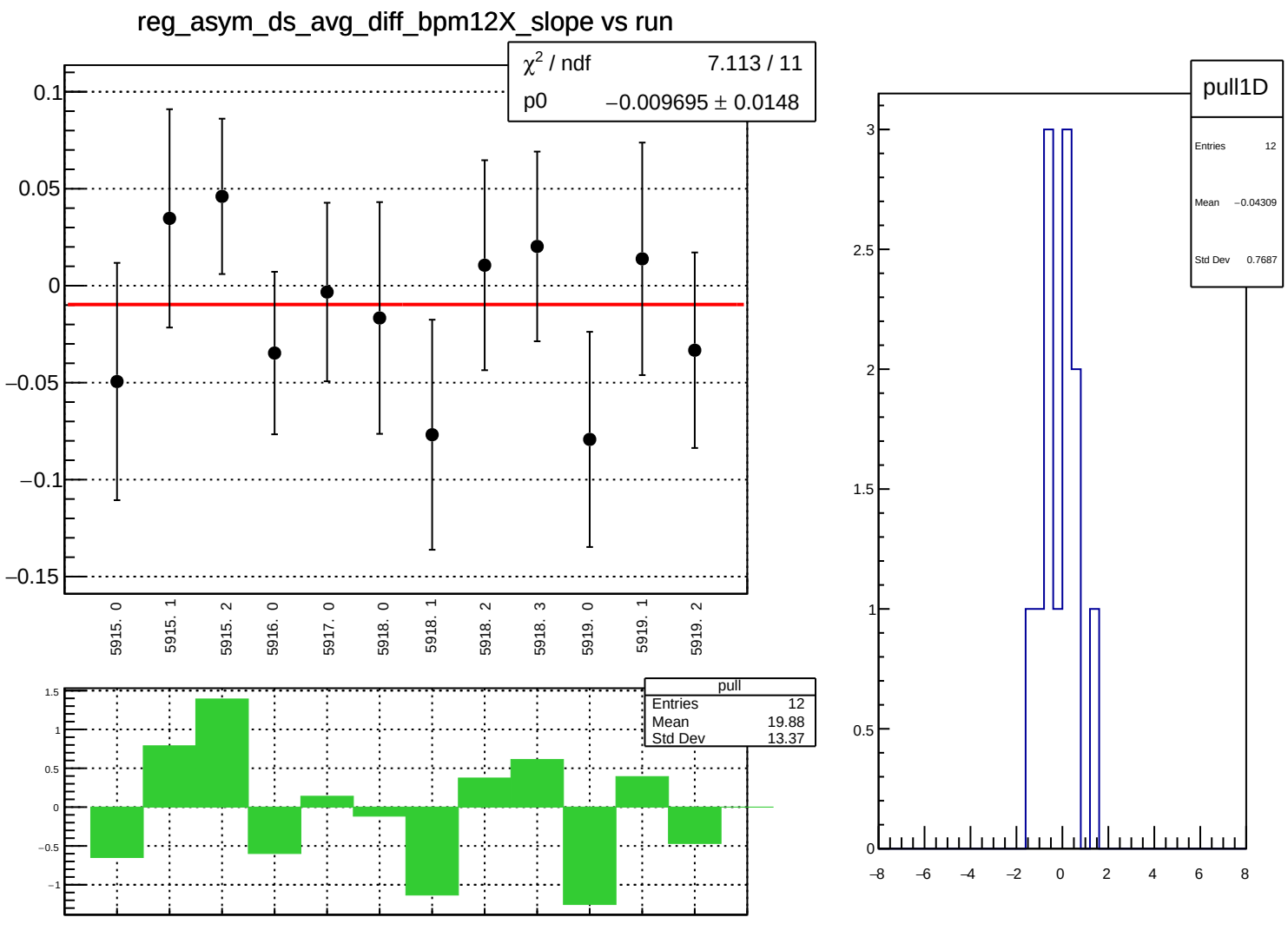

pull1D
Entries 12
Mean 0.07105
Std Dev 1.125
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

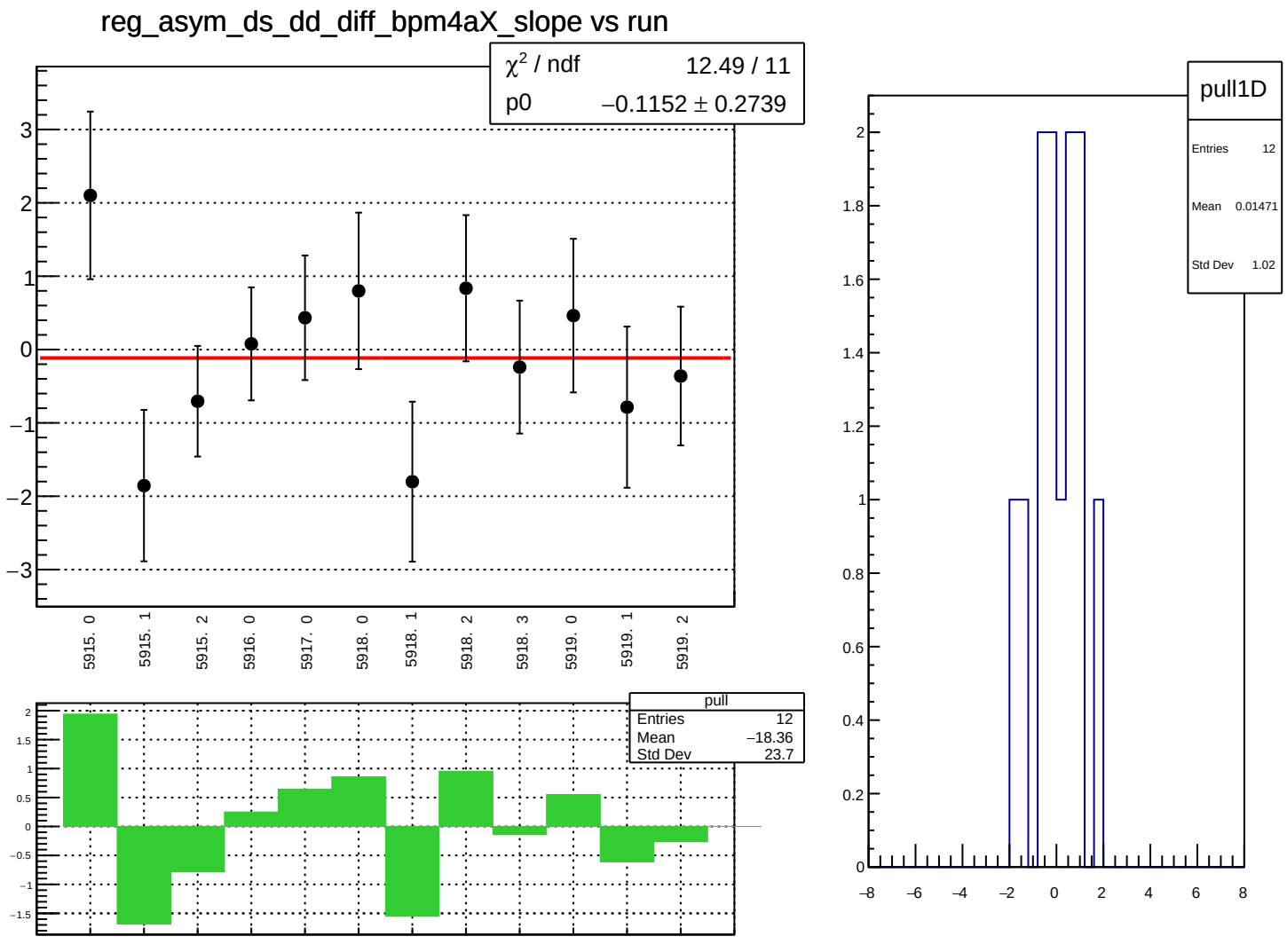

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.718 / 11
p0 −0.3404 ± 0.3437
2
1
0
−1
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

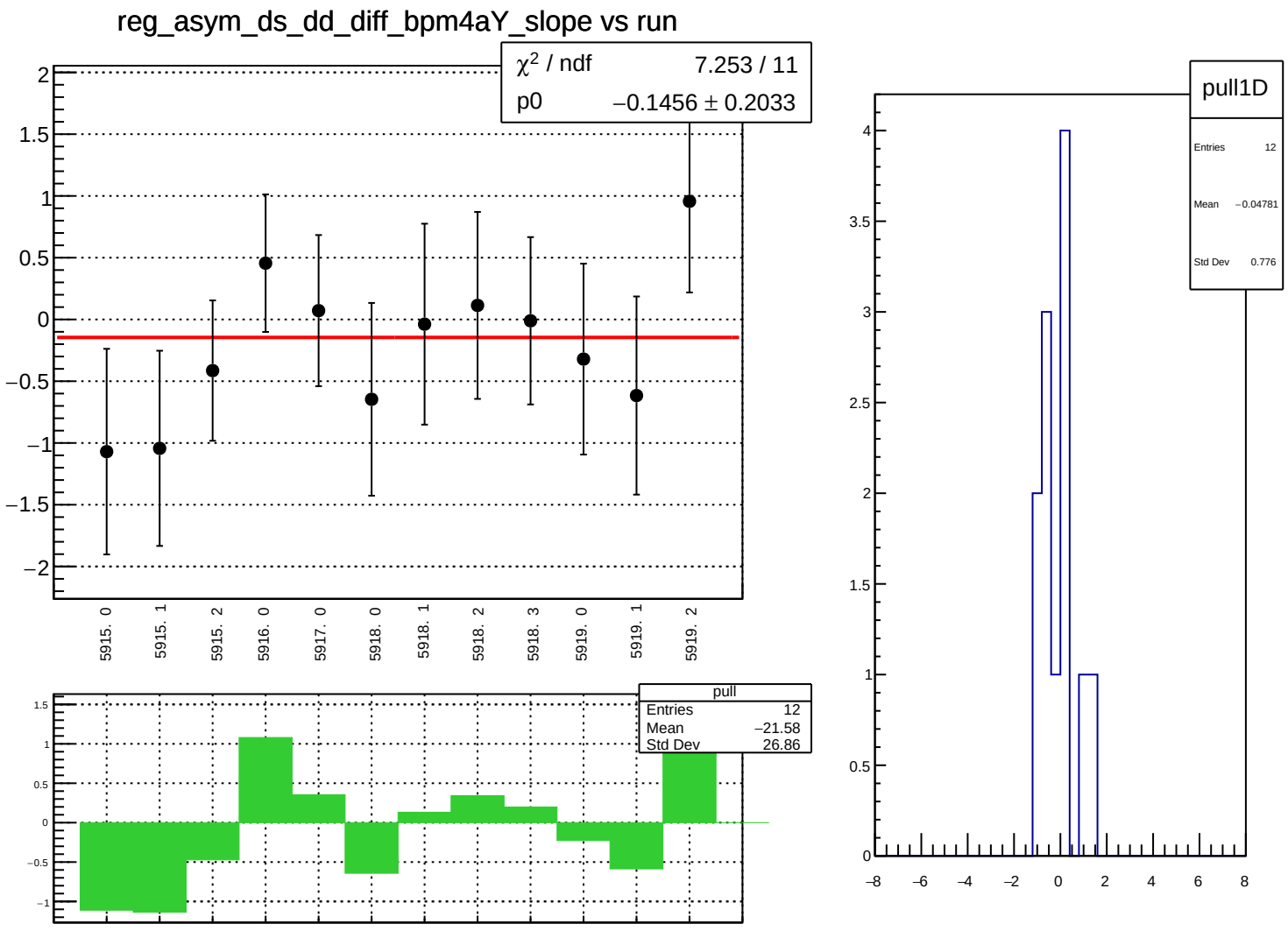

pull
Entries 12
Mean 34.41
Std Dev 27.64
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

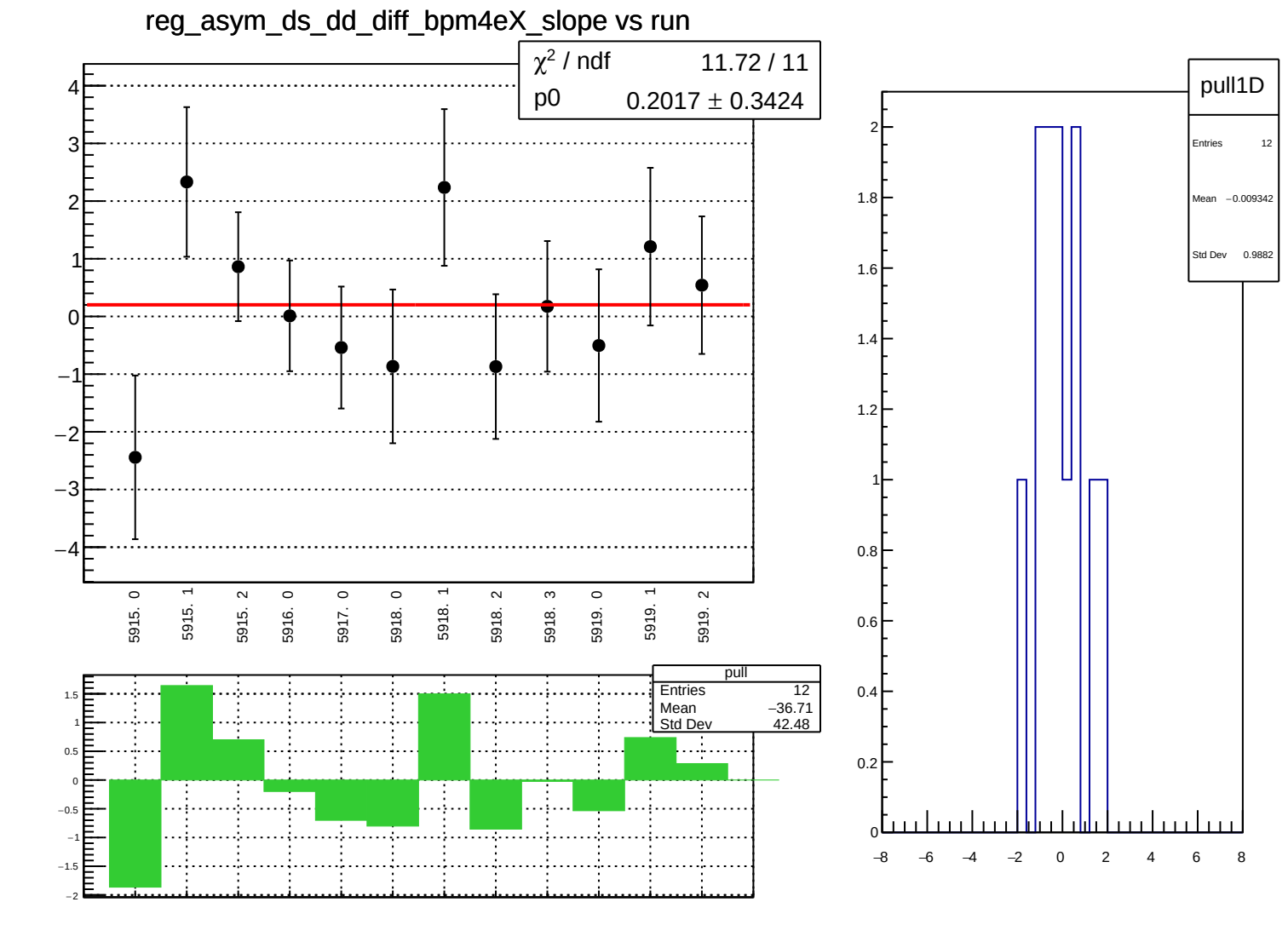

pull1D
Entries 12
Mean 0.01441
Std Dev 0.5564
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

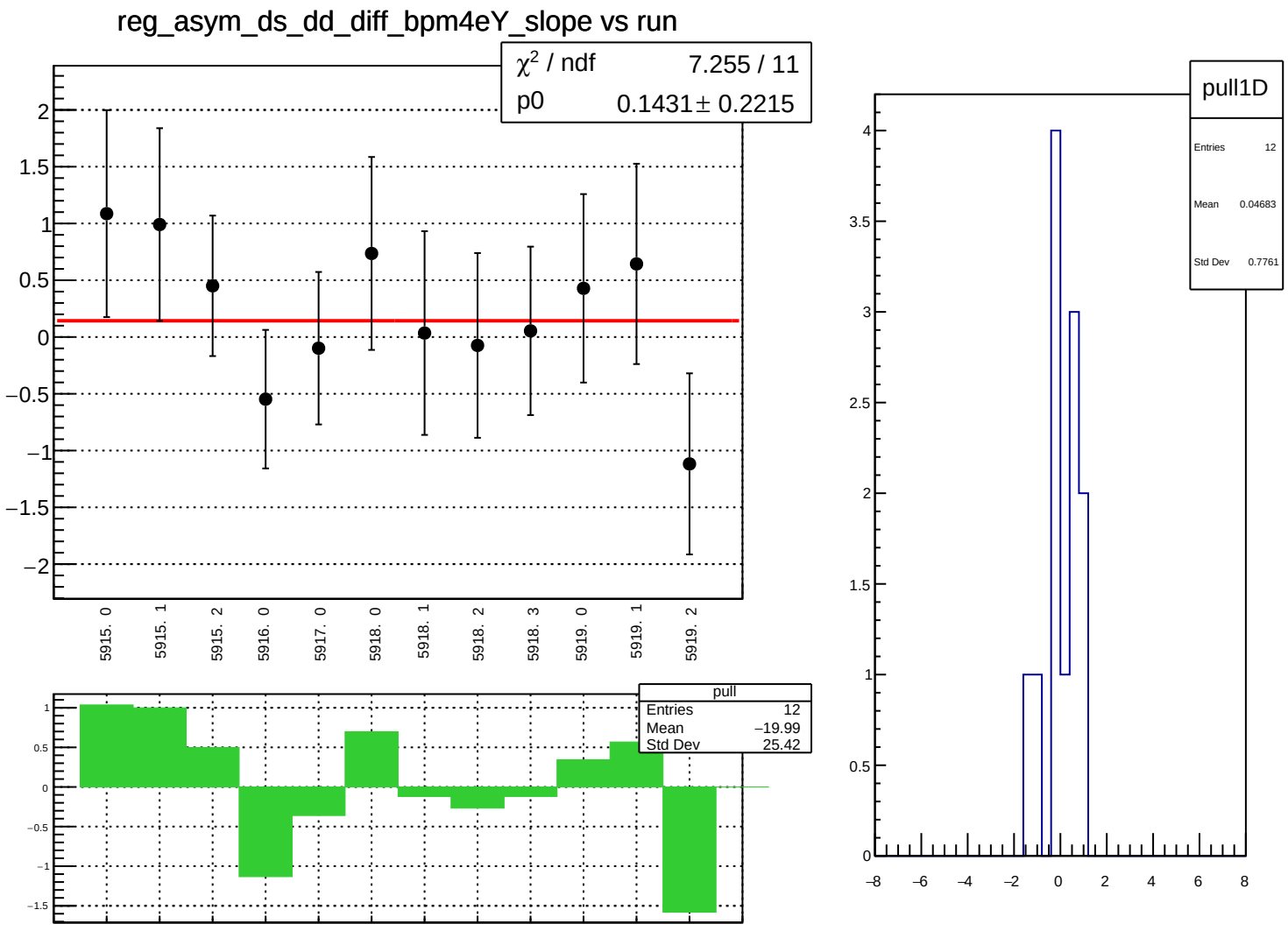

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.32 / 11
p0 0.0548 ± 0.2223
2
1
0
−1
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −15.97
Std Dev 22.14
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.07815
Std Dev 1.127
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

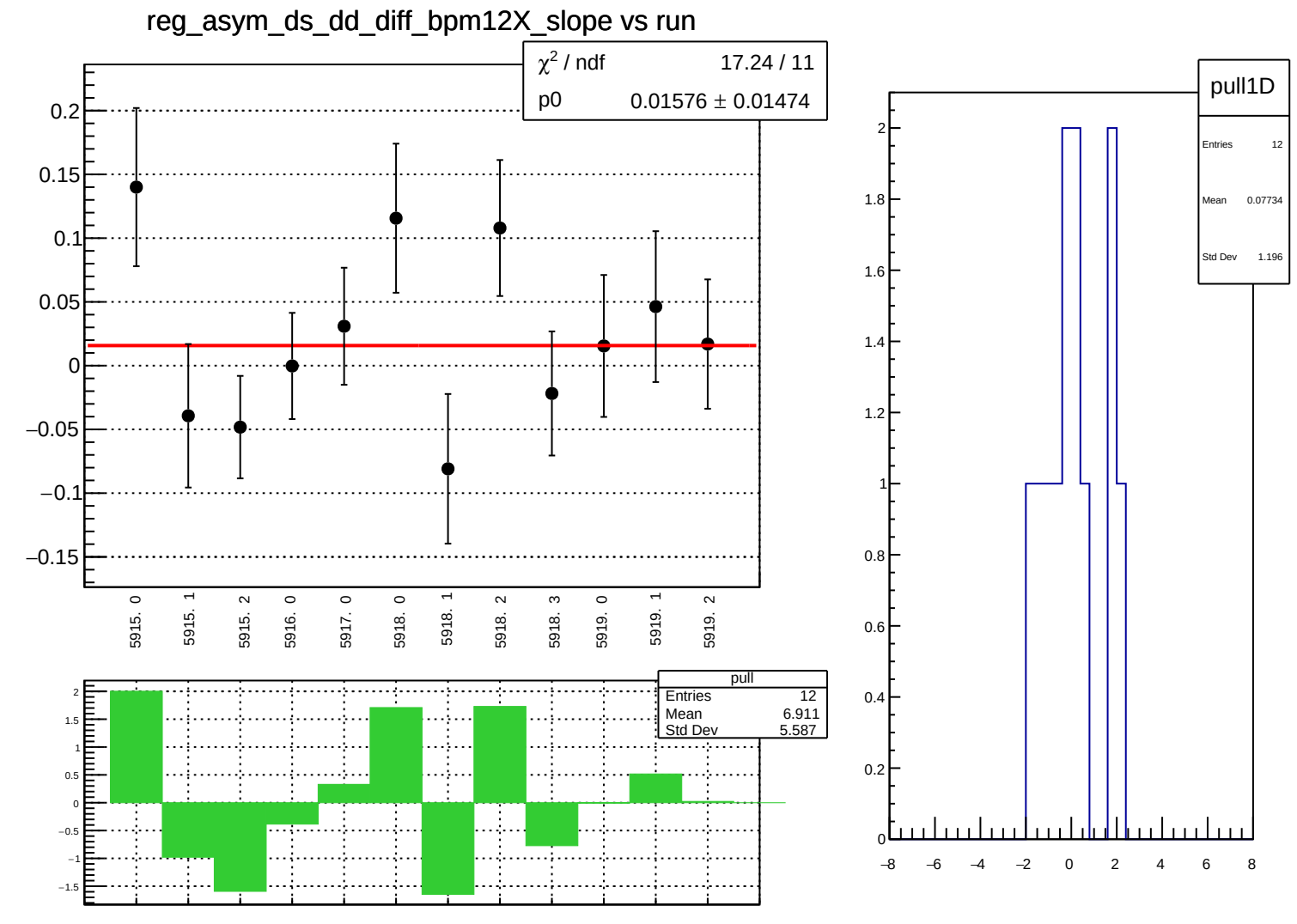

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 7.113 / 11
p0 −0.009695 ± 0.0148
0.1
0.05
0
−0.05
−0.1
−0.15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.88
Std Dev 13.37
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.04309
Std Dev 0.7687
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

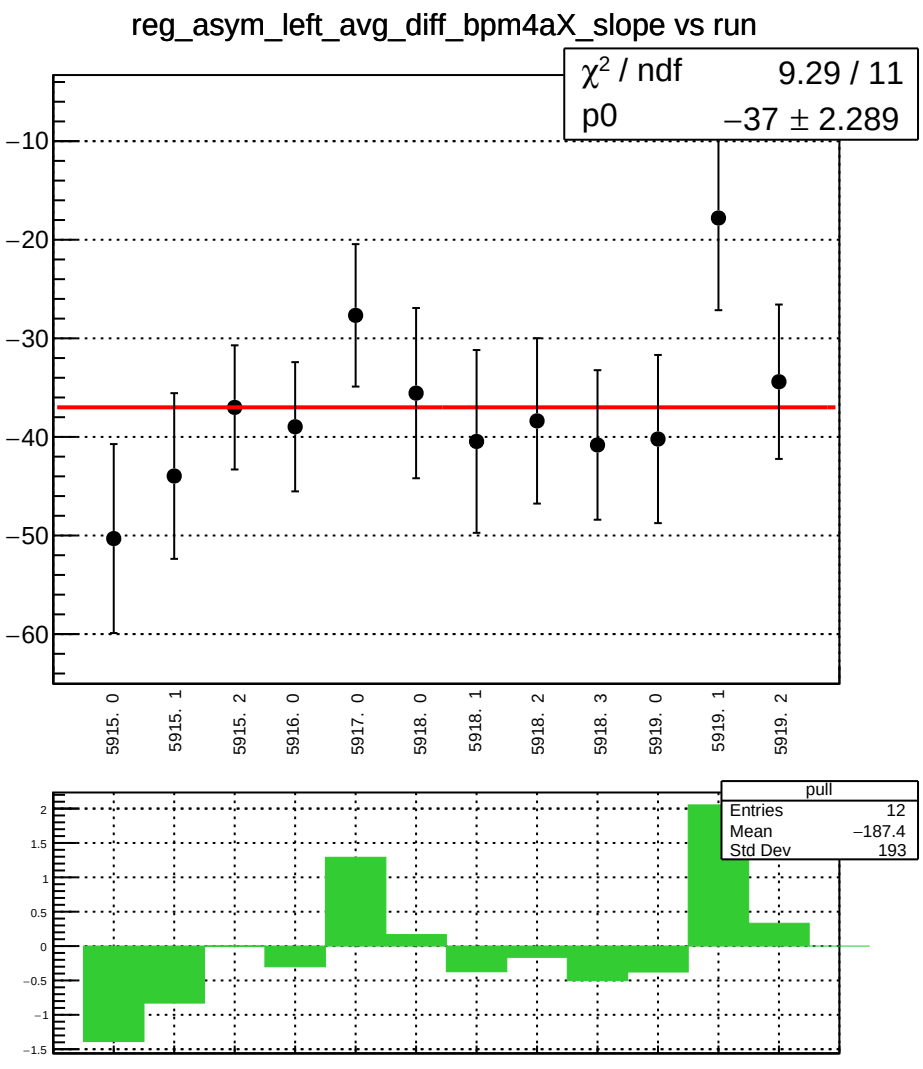

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.49 / 11
p0 −0.1152 ± 0.2739
3
2
1
0
−1
−2
−3
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −18.36
Std Dev 23.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.01471
Std Dev 1.02
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

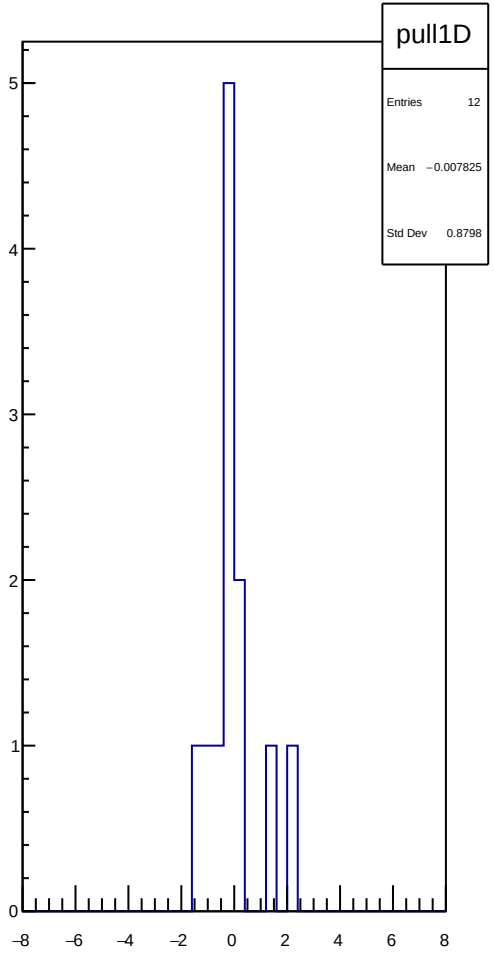

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.253 / 11
p0 −0.1456 ± 0.2033
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −21.58
Std Dev 26.86
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.04781
Std Dev 0.776
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

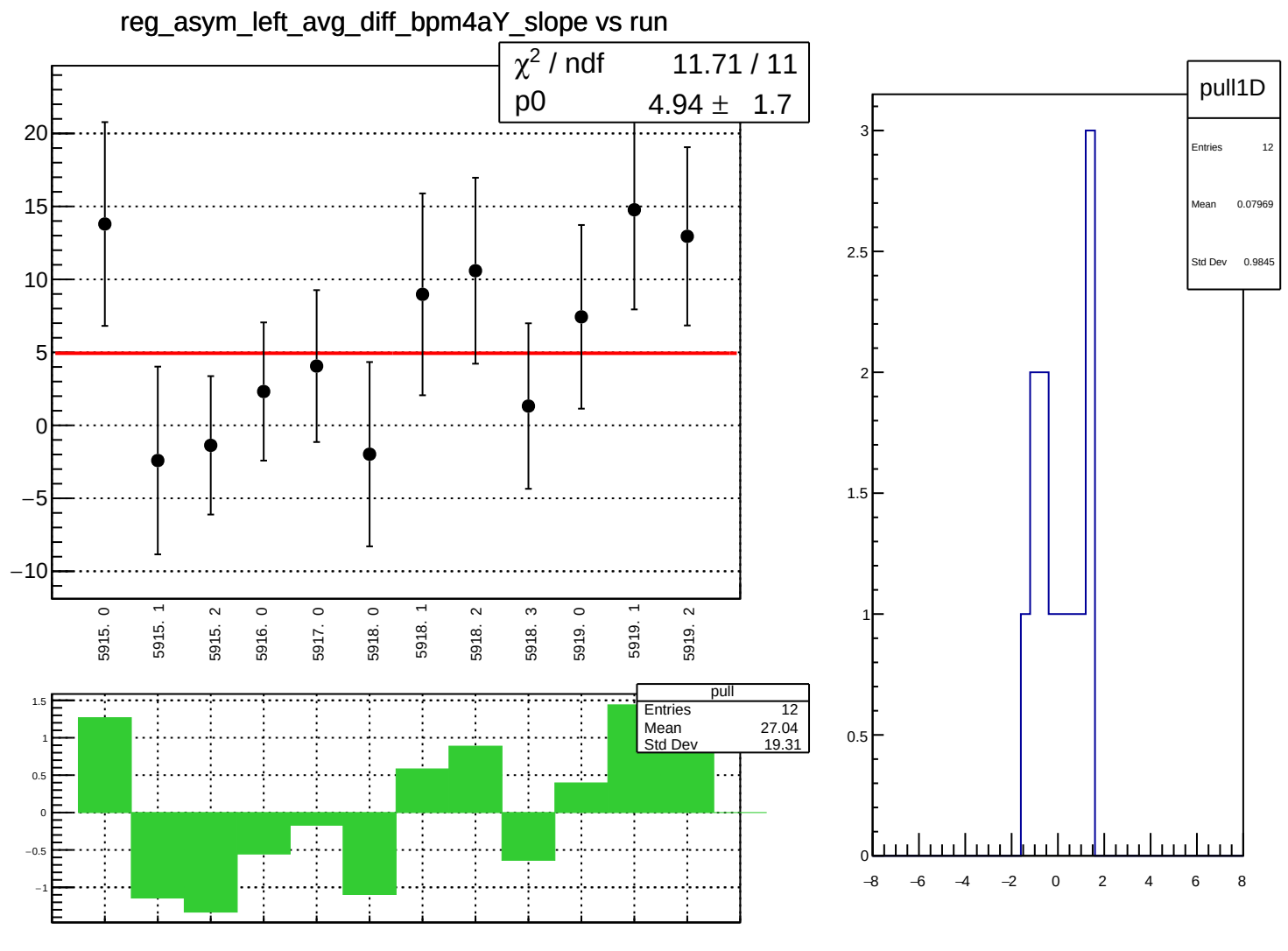

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.72 / 11
p0 0.2017 ± 0.3424
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −36.71
Std Dev 42.48
pull1D
Entries 12
Mean −0.009342
Std Dev 0.9882

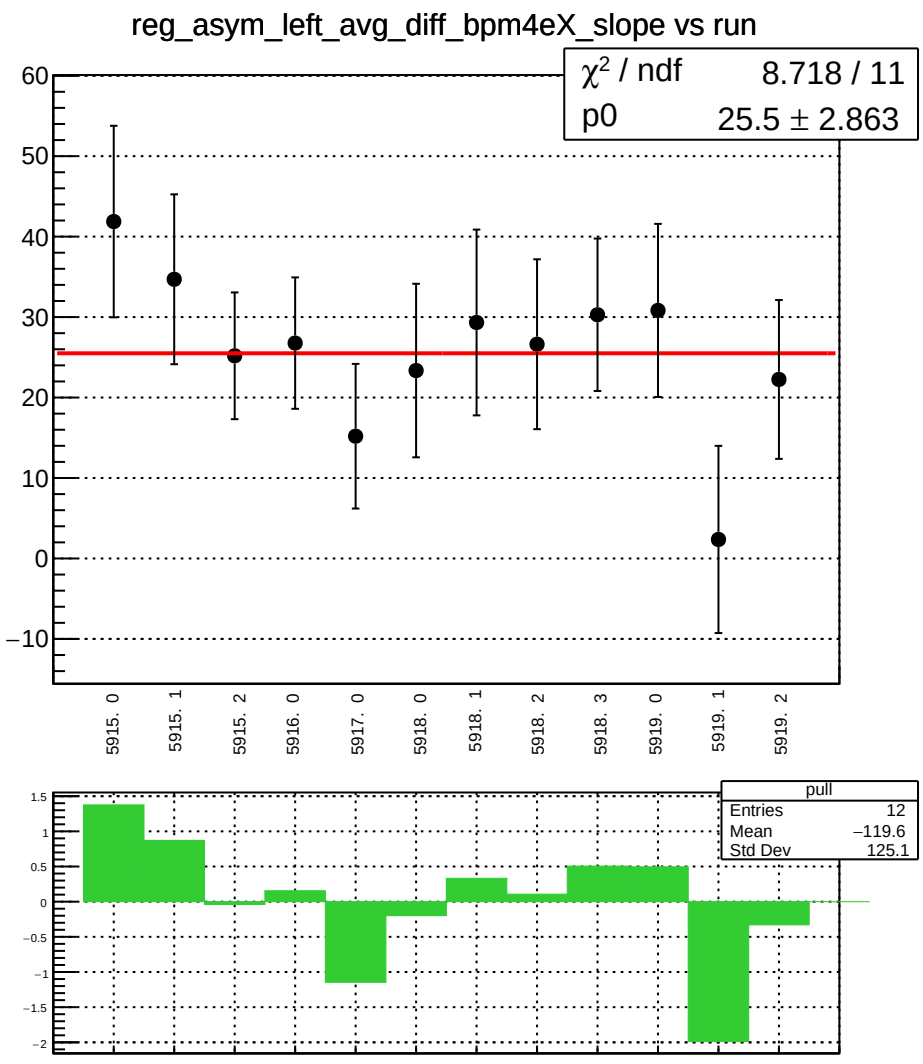

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.255 / 11
p0 0.1431± 0.2215
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −19.99
Std Dev 25.42
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.04683
Std Dev 0.7761
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

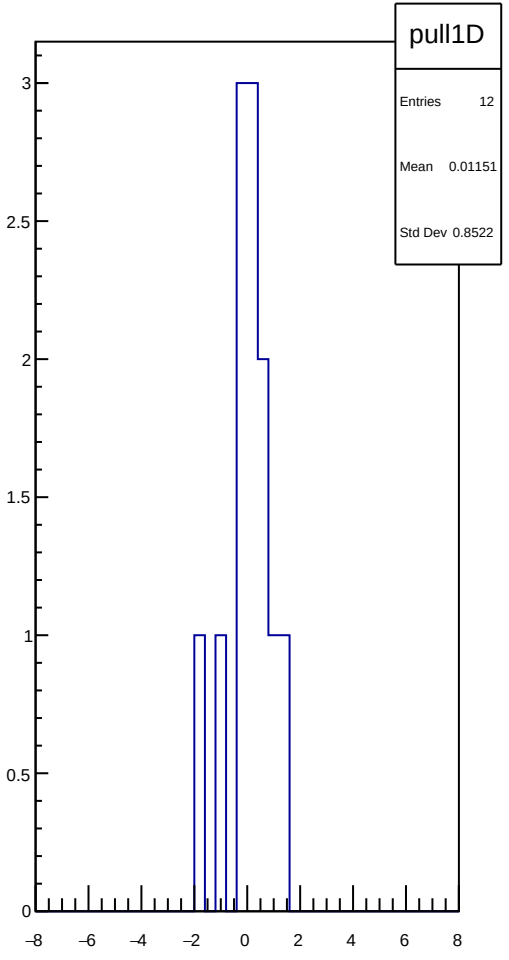

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 17.24 / 11
p0 0.01576 ± 0.01474
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 6.911
Std Dev 5.587
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.07734
Std Dev 1.196
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

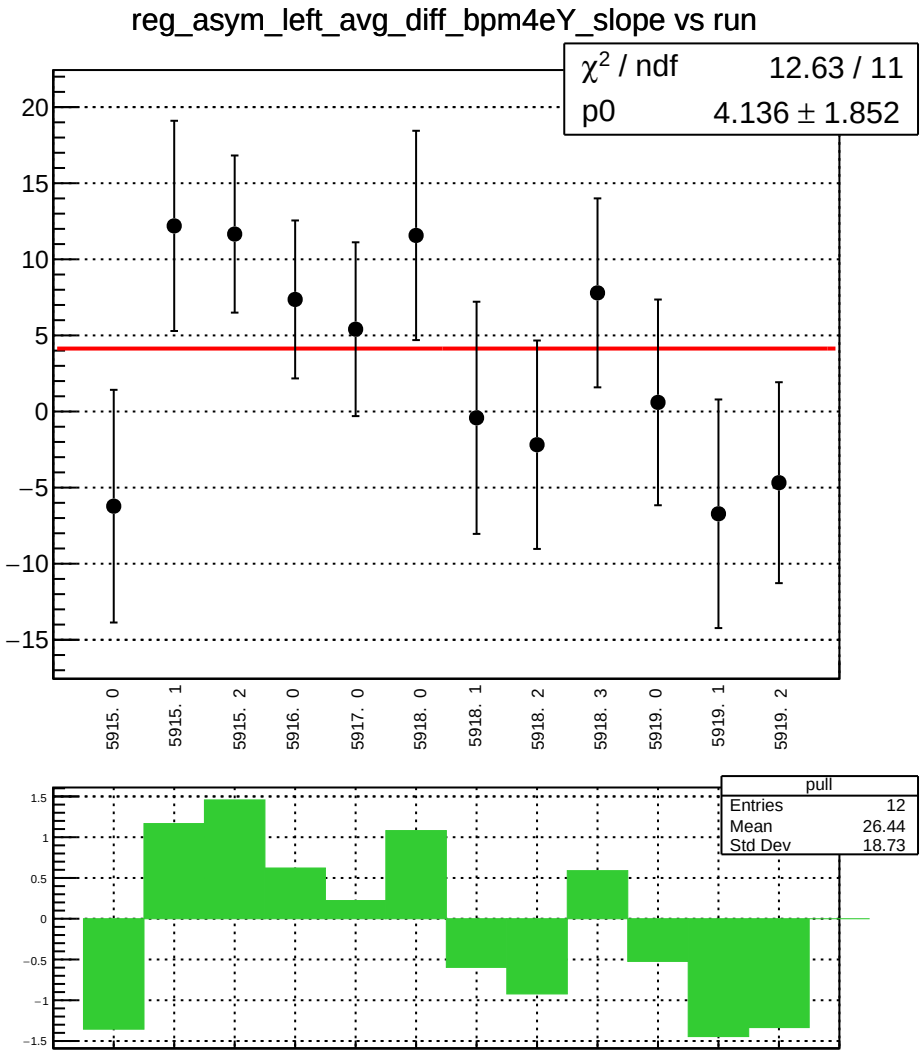

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.29 / 11
p0 −37 ± 2.289
−10
−20
−30
−40
−50
−60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −187.4
Std Dev 193
2
1.5
1
0.5
0
−0.5
−1
−1.5

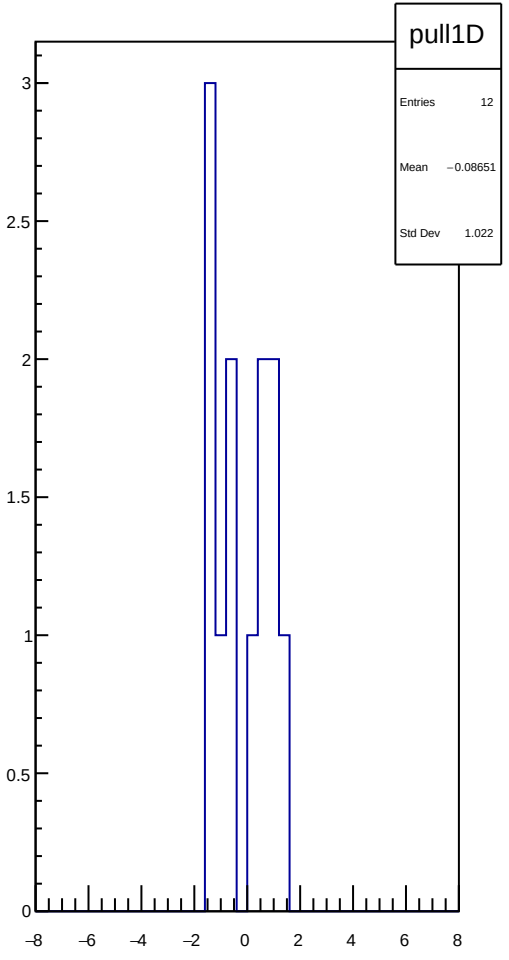

pull1D
Entries 12
Mean −0.007825
Std Dev 0.8798
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

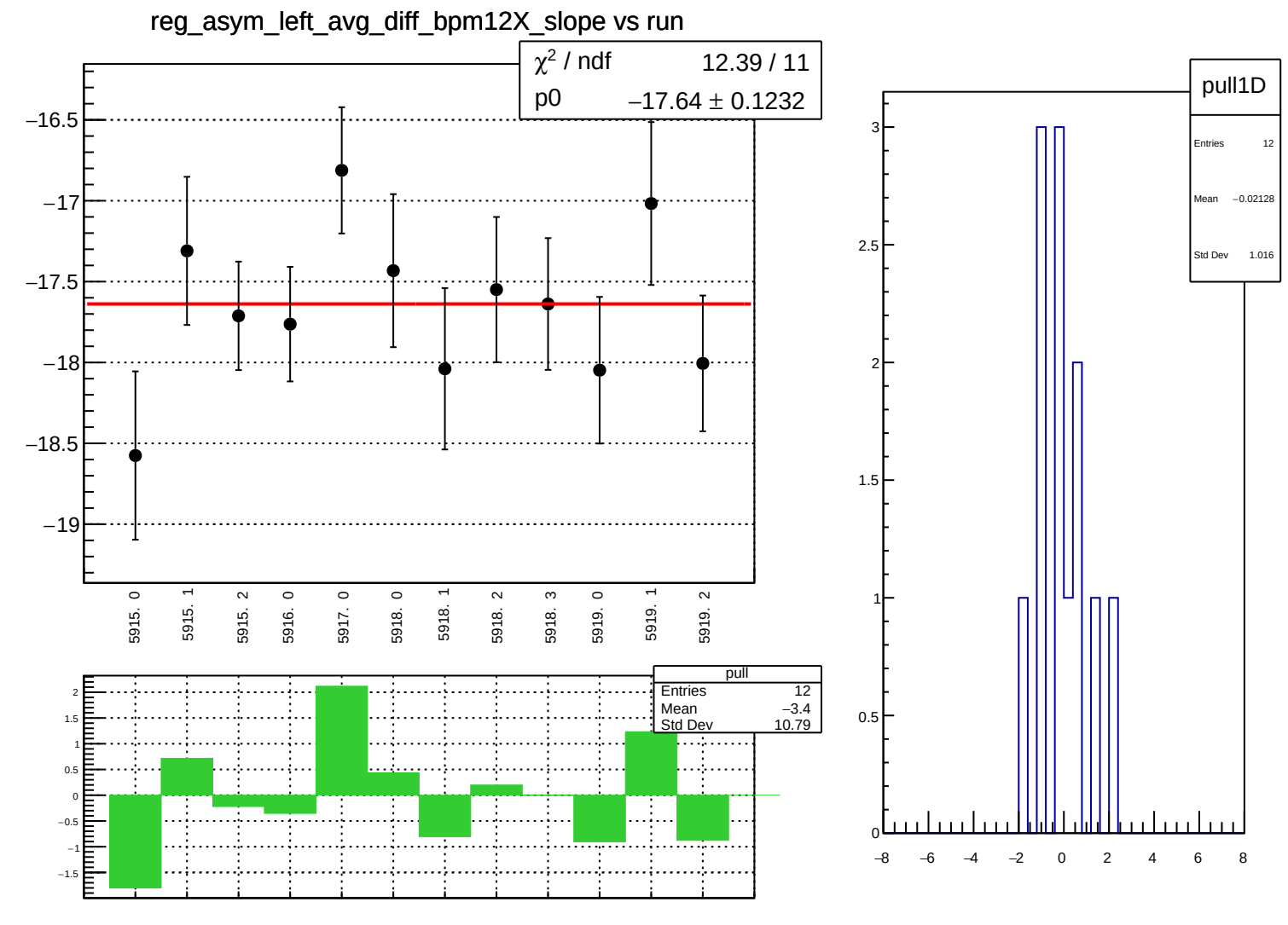

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ2 / ndf 11.71 / 11
p0 4.94 ± 1.7
20
15
10
5
0
−5
−10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.04
Std Dev 19.31
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.07969
Std Dev 0.9845
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

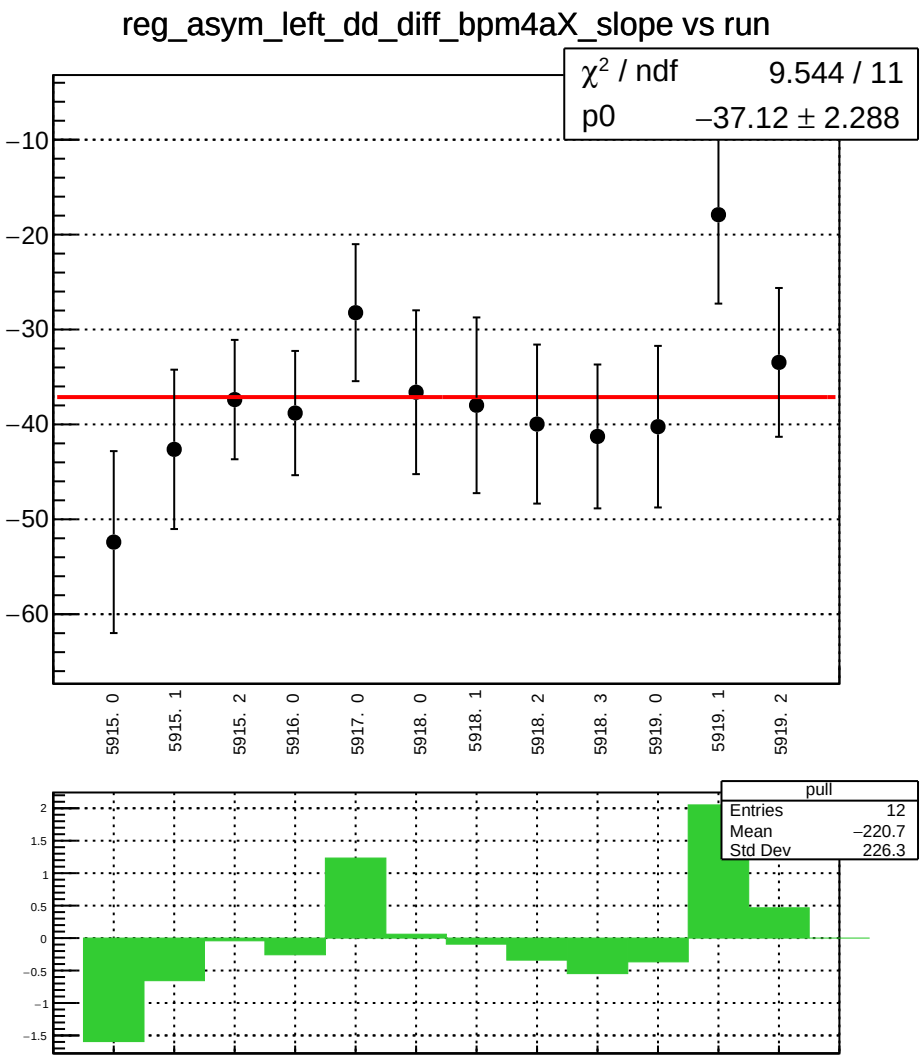

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.718 / 11
p0 25.5 ± 2.863
60
50
40
30
20
10
0
−10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −119.6
Std Dev 125.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

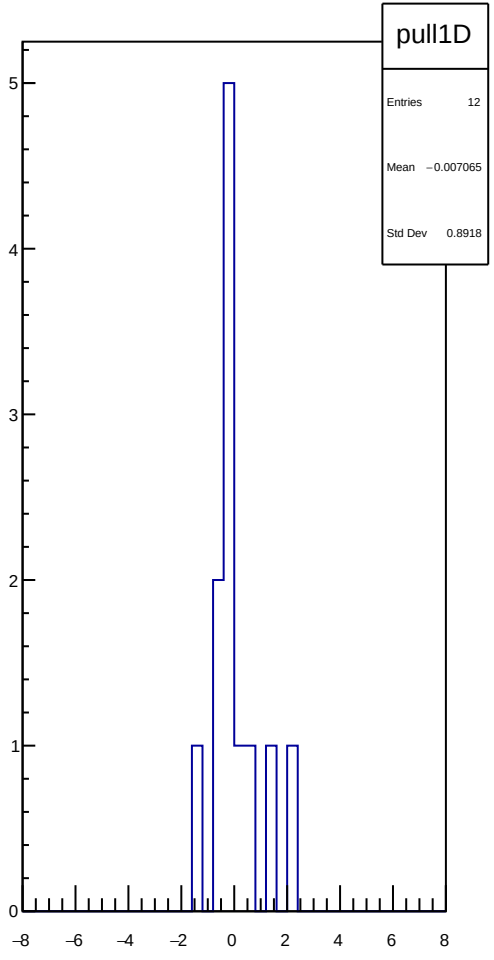

pull1D
Entries 12
Mean 0.01151
Std Dev 0.8522
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

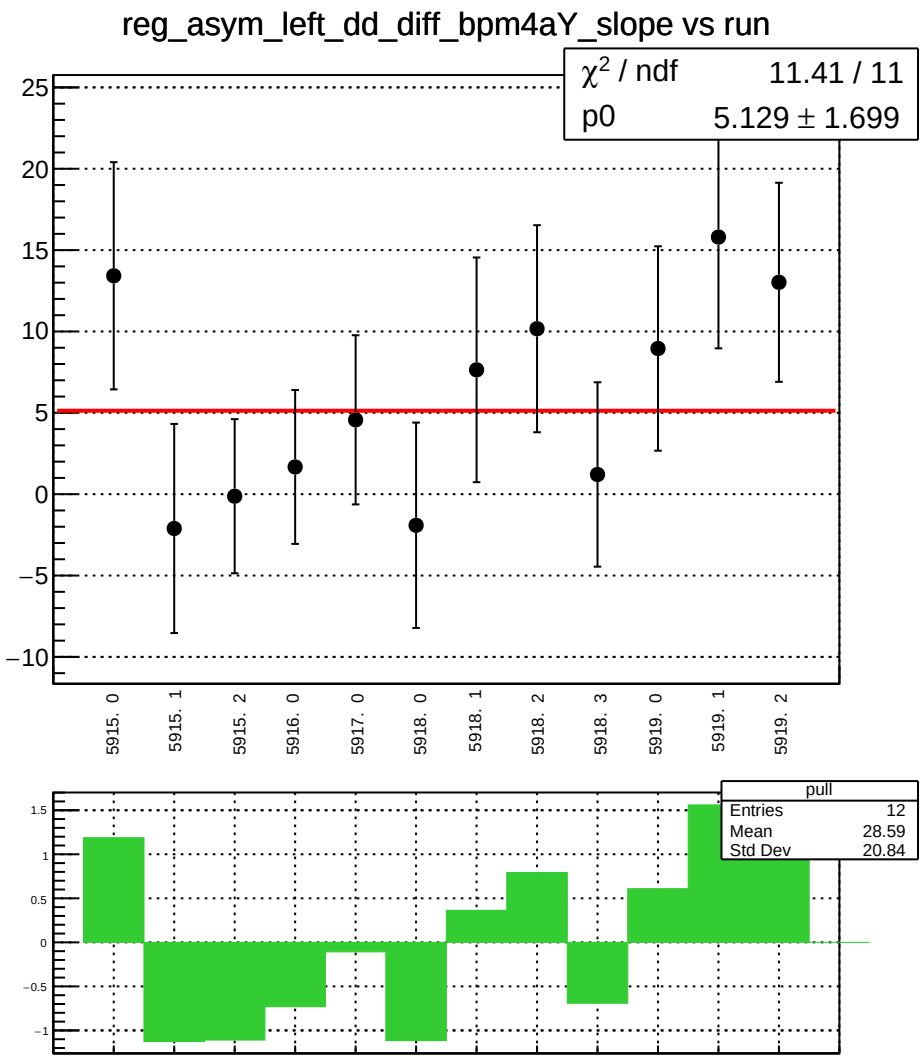

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.63 / 11
p0 4.136 ± 1.852
20
15
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 26.44
Std Dev 18.73
1.5
1
0.5
0
−0.5
−1
−1.5

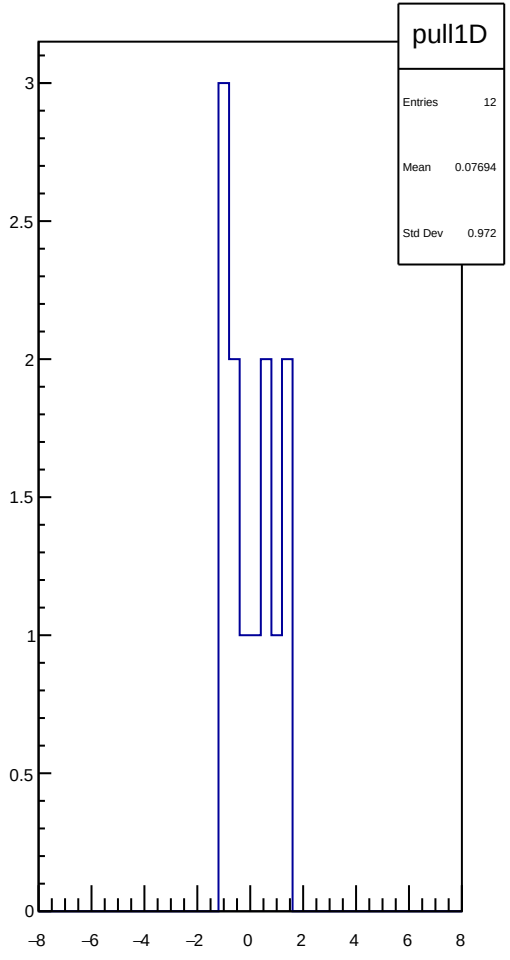

pull1D
Entries 12
Mean −0.08651
Std Dev 1.022
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

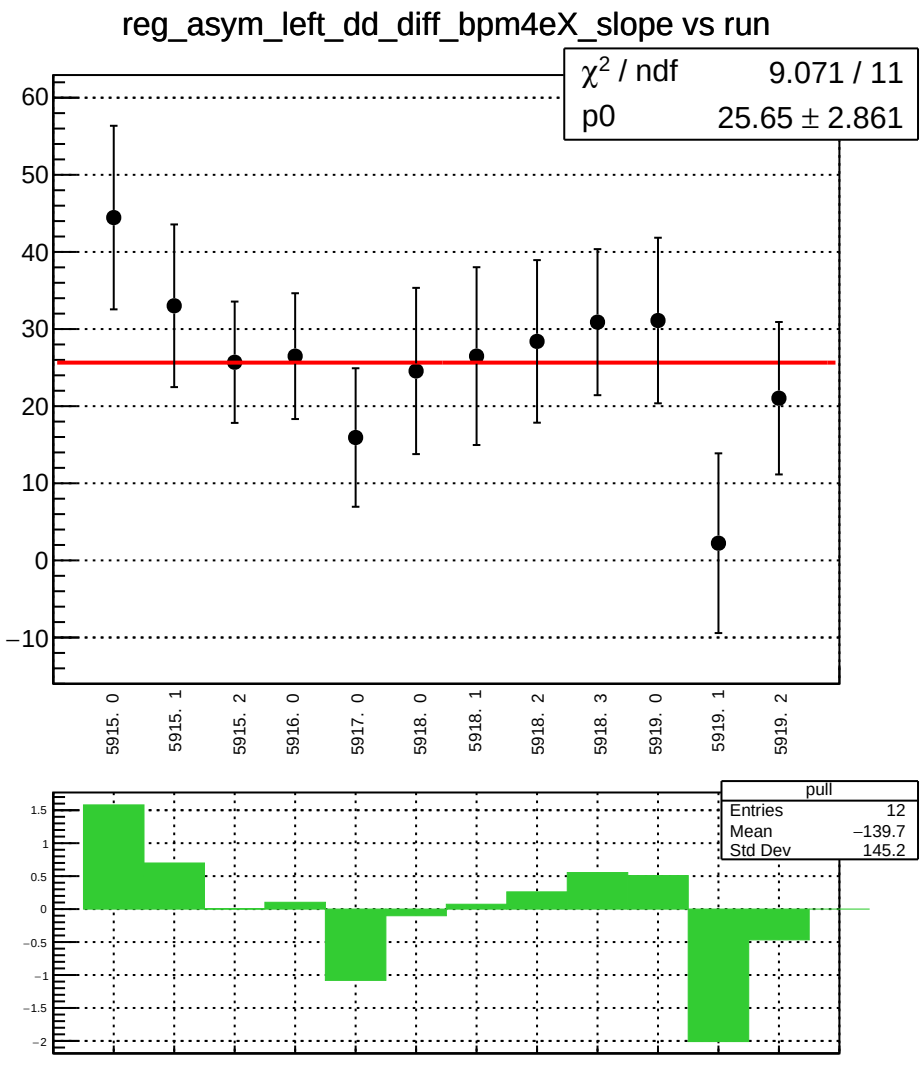

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 12.39 / 11
p0 −17.64 ± 0.1232
−16.5
−17
−17.5
−18
−18.5
−19
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −3.4
Std Dev 10.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.02128
Std Dev 1.016
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

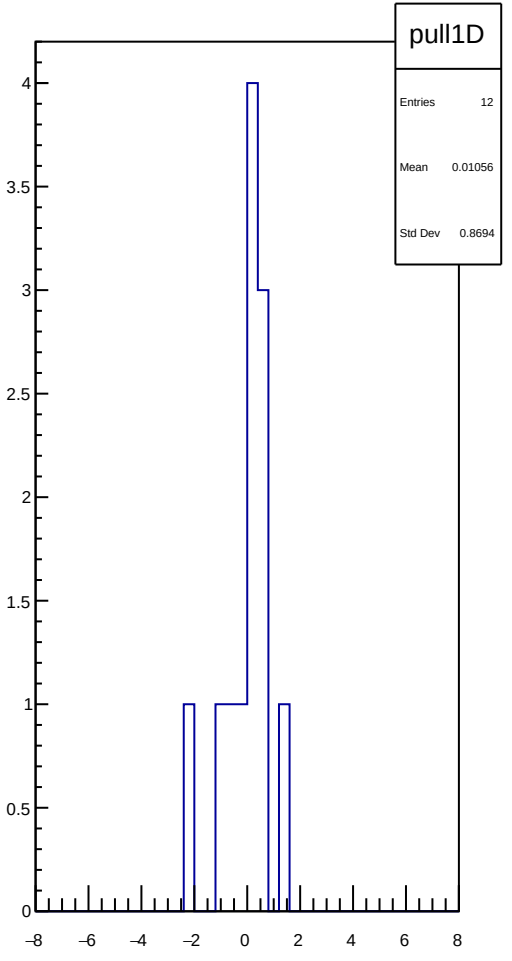

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.544 / 11
p0 −37.12 ± 2.288
−10
−20
−30
−40
−50
−60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −220.7
Std Dev 226.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

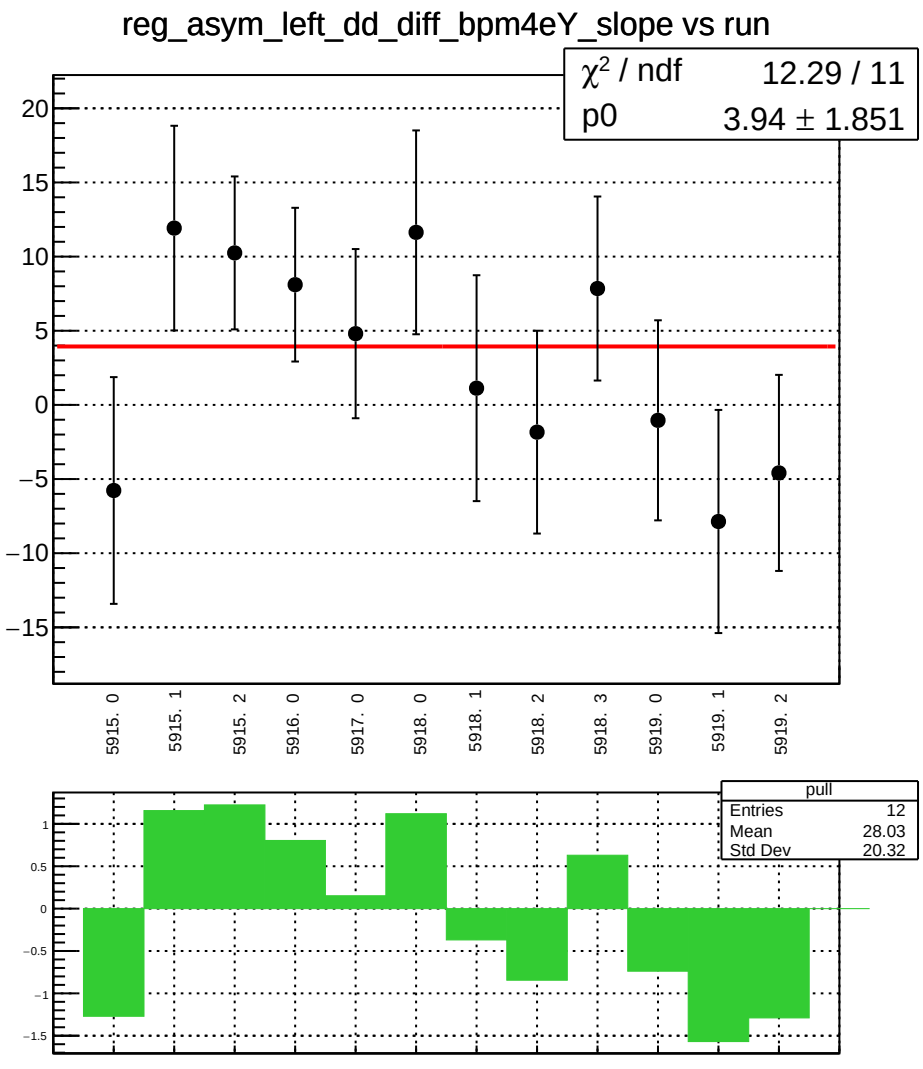

pull1D
Entries 12
Mean −0.007065
Std Dev 0.8918
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

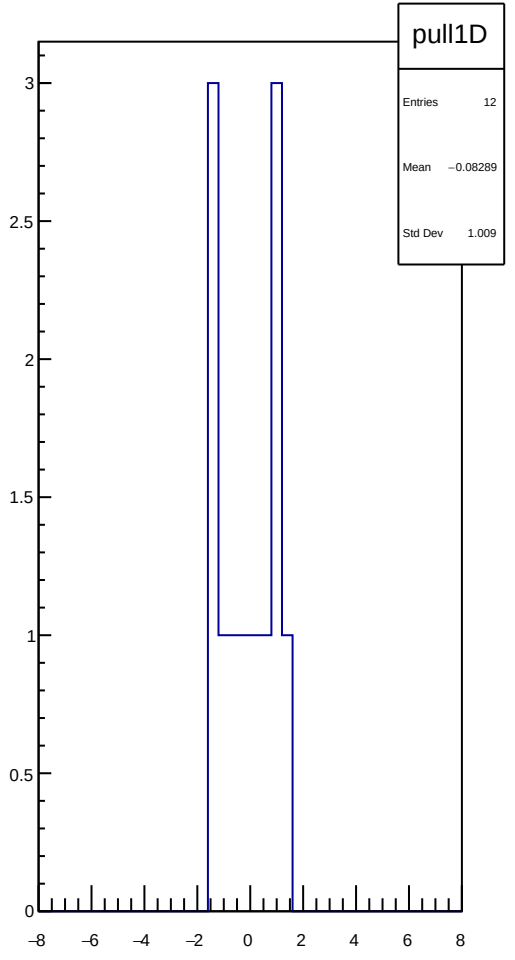

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.41 / 11
p0 5.129 ± 1.699
25
20
15
10
5
0
−5
−10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.59
Std Dev 20.84
1.5
1
0.5
0
−0.5
−1

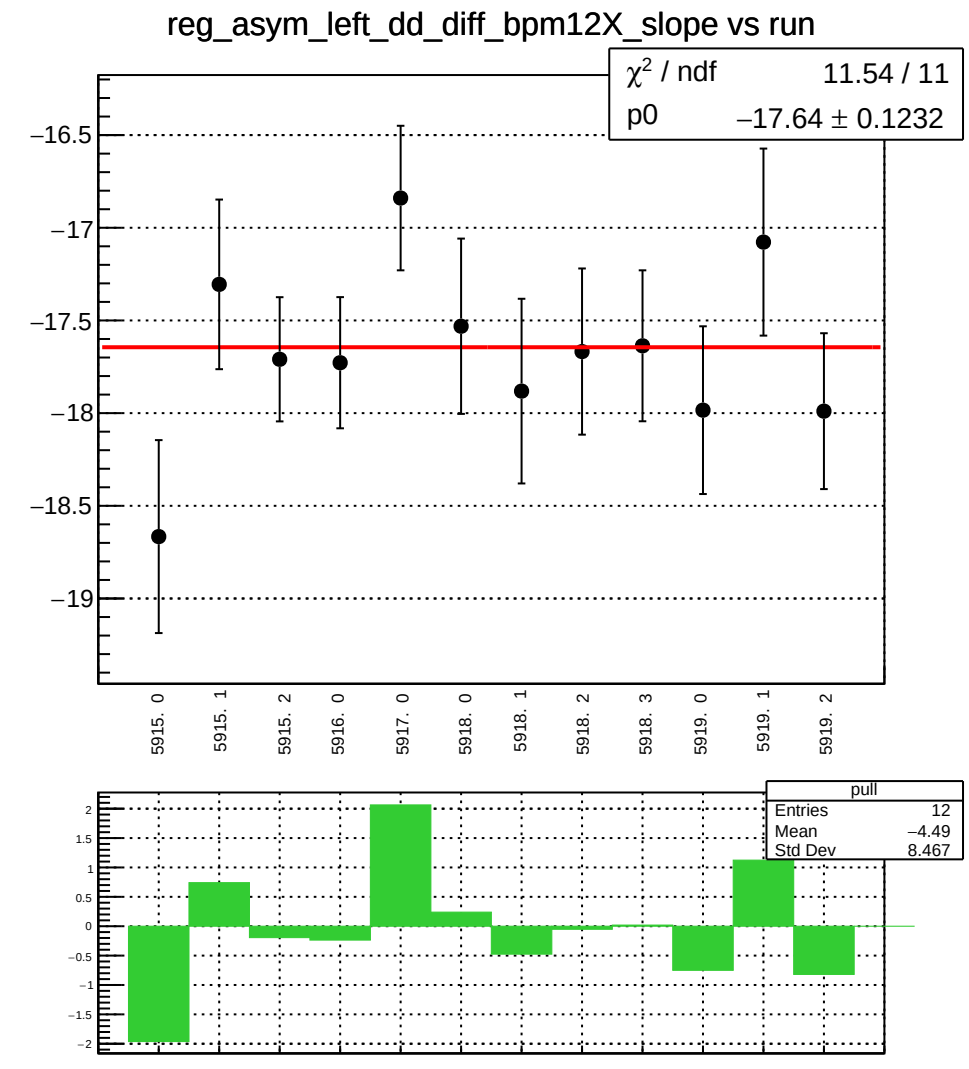

pull1D
Entries 12
Mean 0.07694
Std Dev 0.972
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

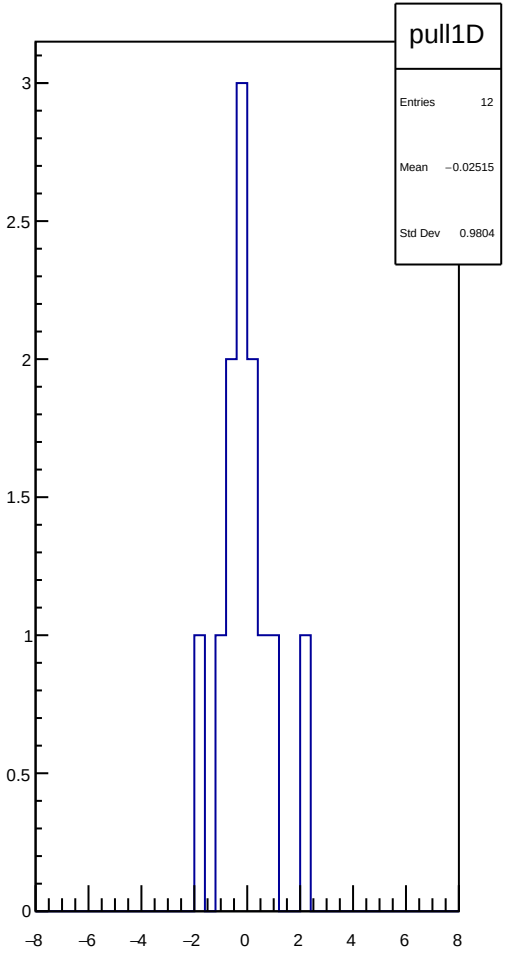

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.071 / 11
p0 25.65 ± 2.861
60
50
40
30
20
10
0
−10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −139.7
Std Dev 145.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

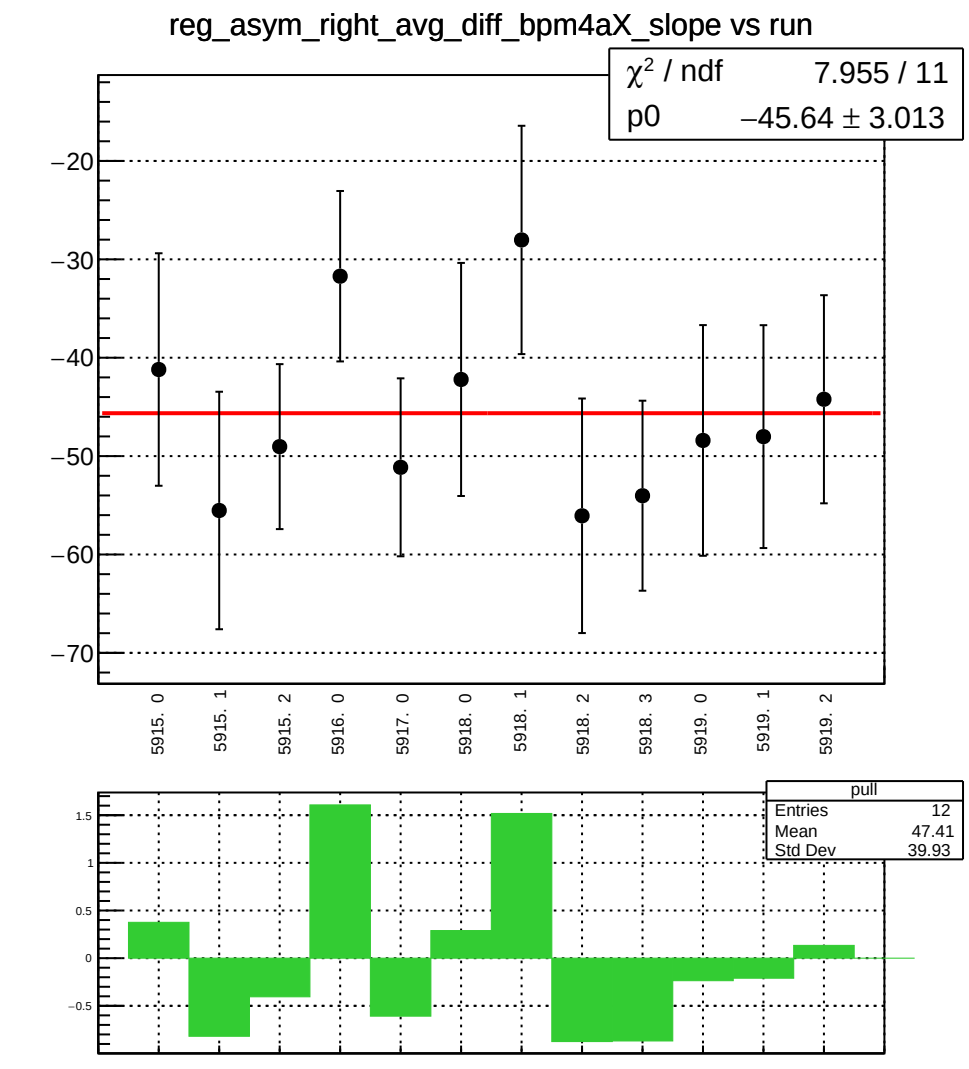

pull1D
Entries 12
Mean 0.01056
Std Dev 0.8694
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

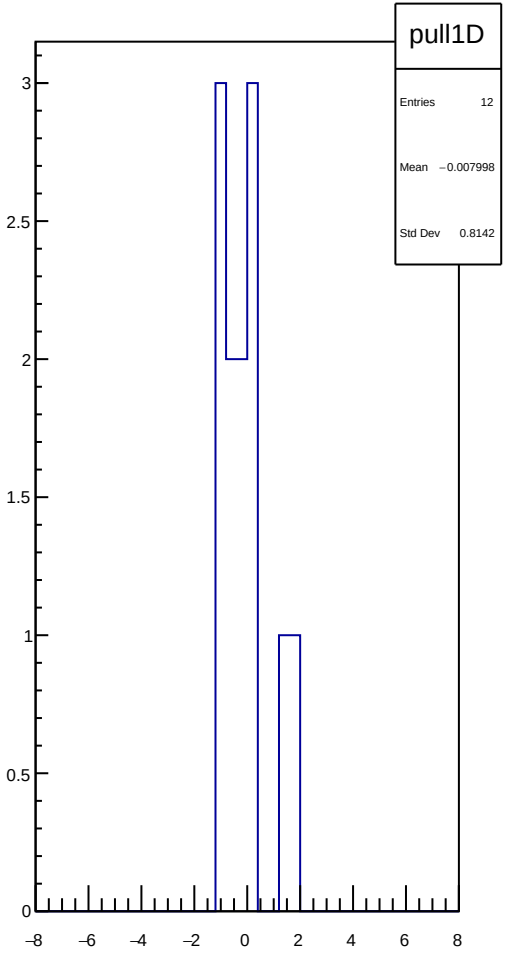

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.29 / 11
p0 3.94 ± 1.851
20
15
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.03
Std Dev 20.32
1
0.5
0
−0.5
−1
−1.5

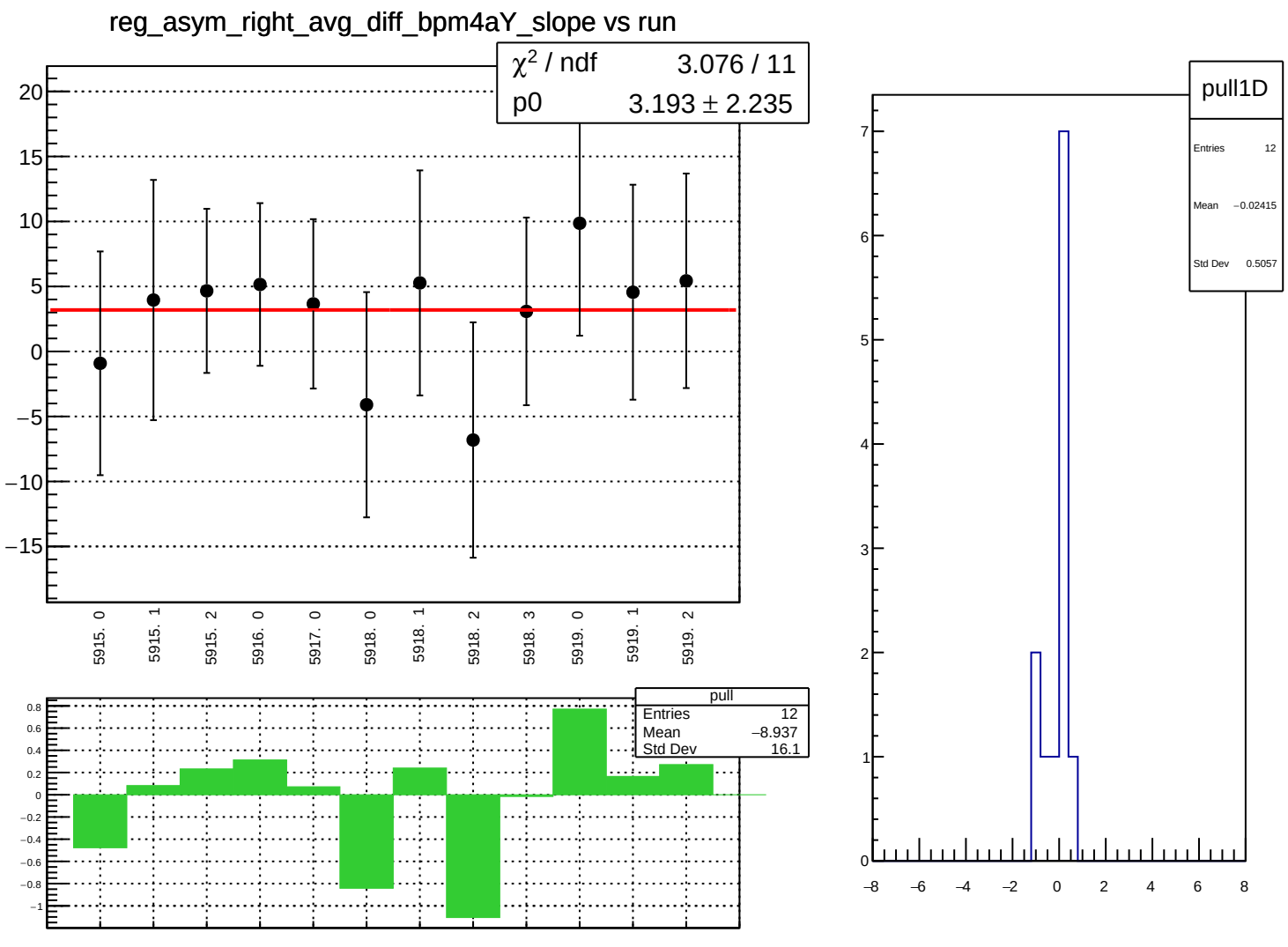

pull1D
Entries 12
Mean −0.08289
Std Dev 1.009
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

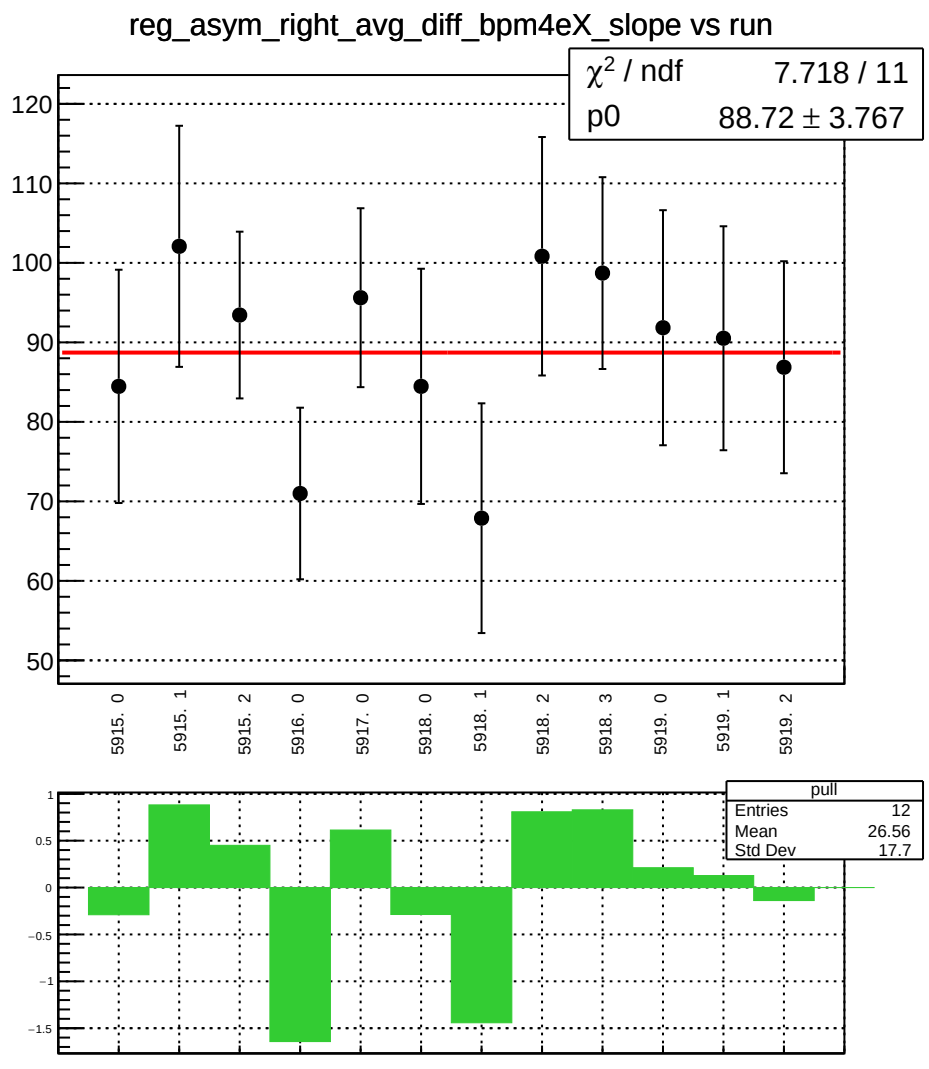

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 11.54 / 11
p0 −17.64 ± 0.1232
−16.5
−17
−17.5
−18
−18.5
−19
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −4.49
Std Dev 8.467
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

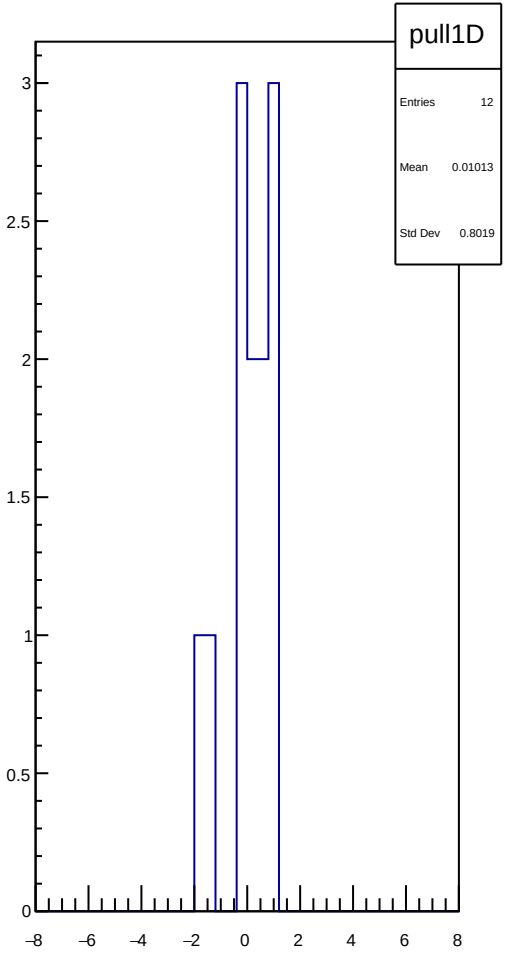

pull1D
Entries 12
Mean −0.02515
Std Dev 0.9804
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

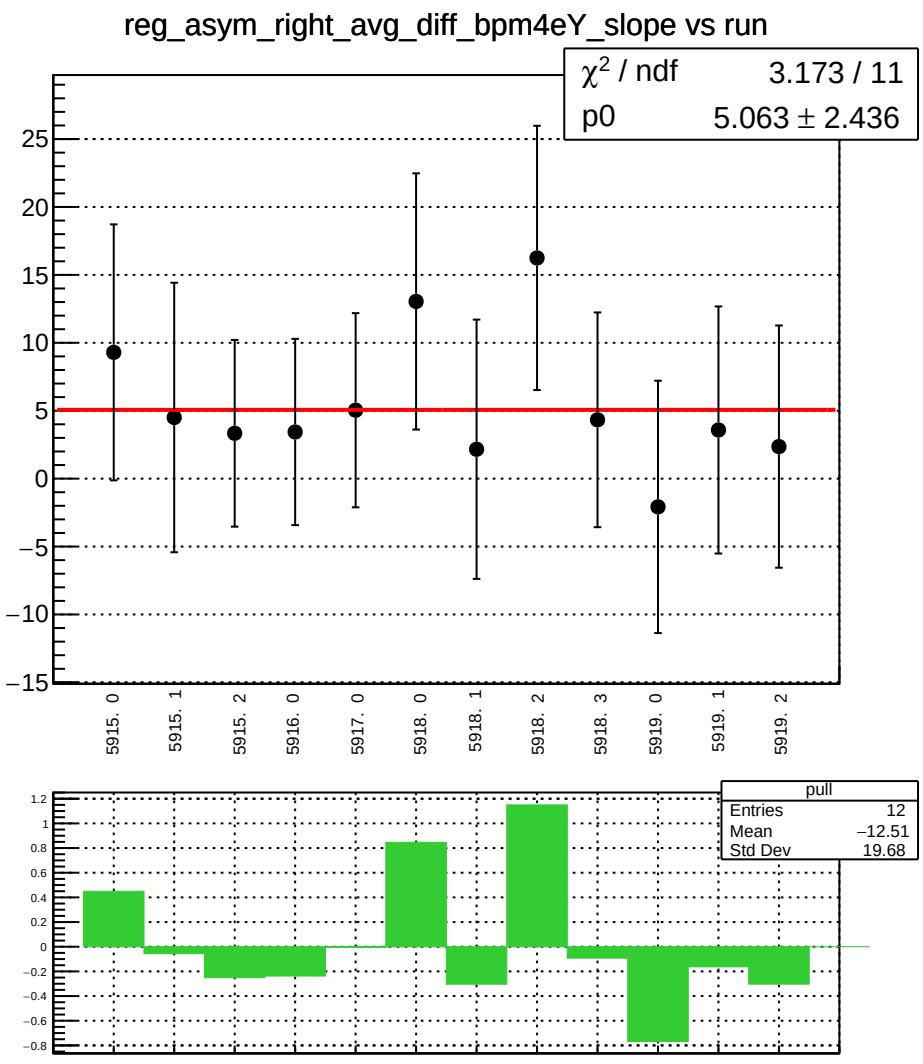

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.955 / 11
p0 −45.64 ± 3.013
−20
−30
−40
−50
−60
−70
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 47.41
Std Dev 39.93
1.5
1
0.5
0
−0.5

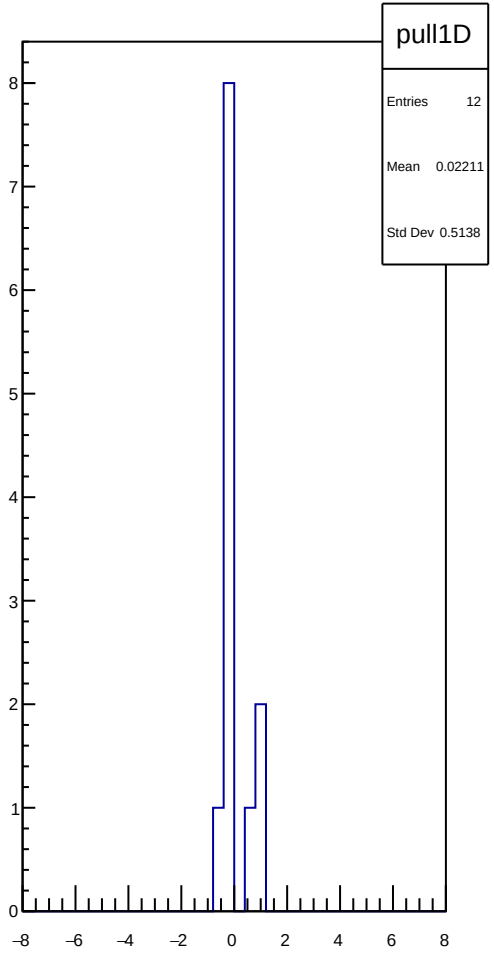

pull1D
Entries 12
Mean −0.007998
Std Dev 0.8142
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

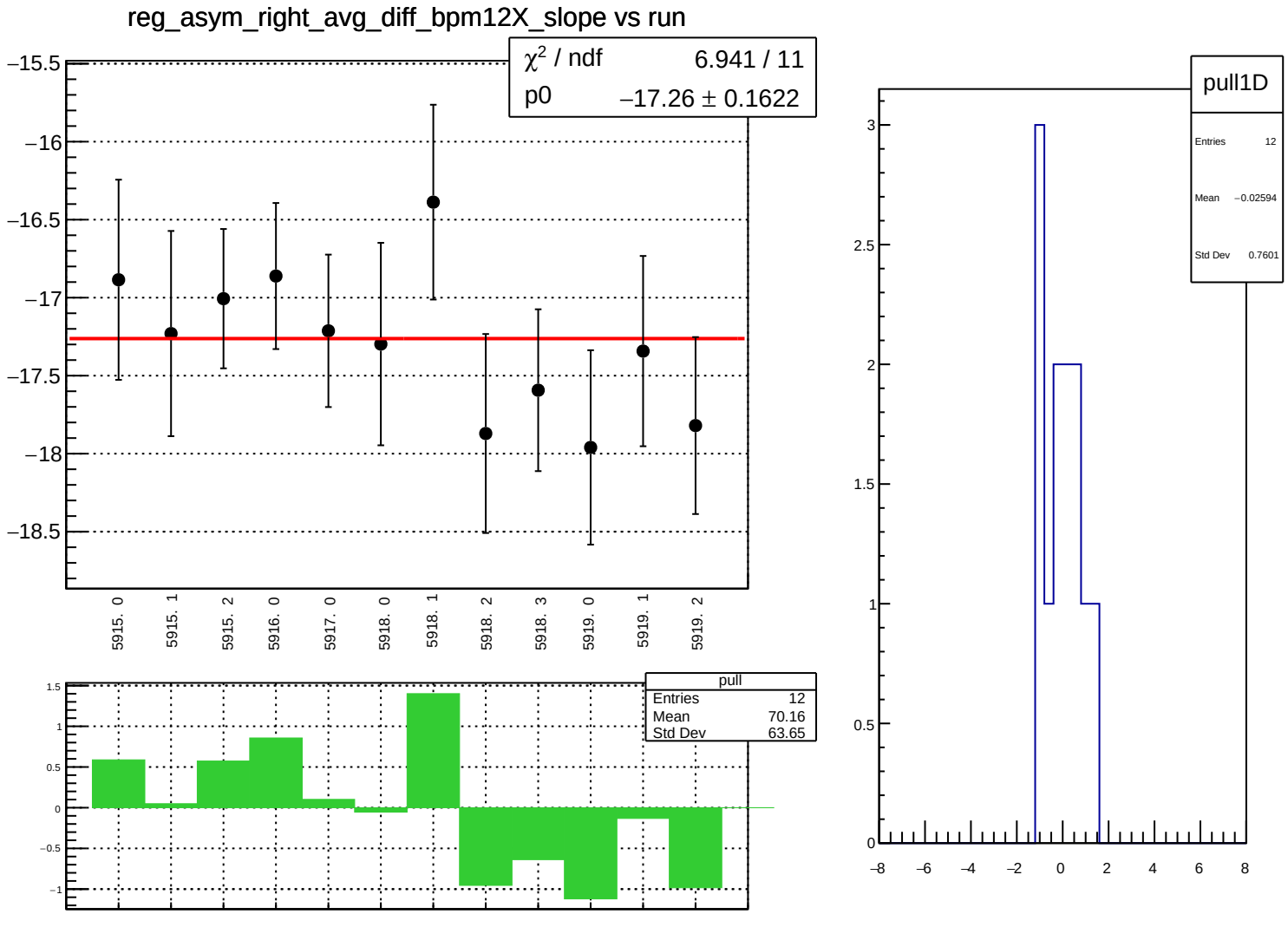

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.076 / 11
p0 3.193 ± 2.235
20
15
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −8.937
Std Dev 16.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 12
Mean −0.02415
Std Dev 0.5057
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

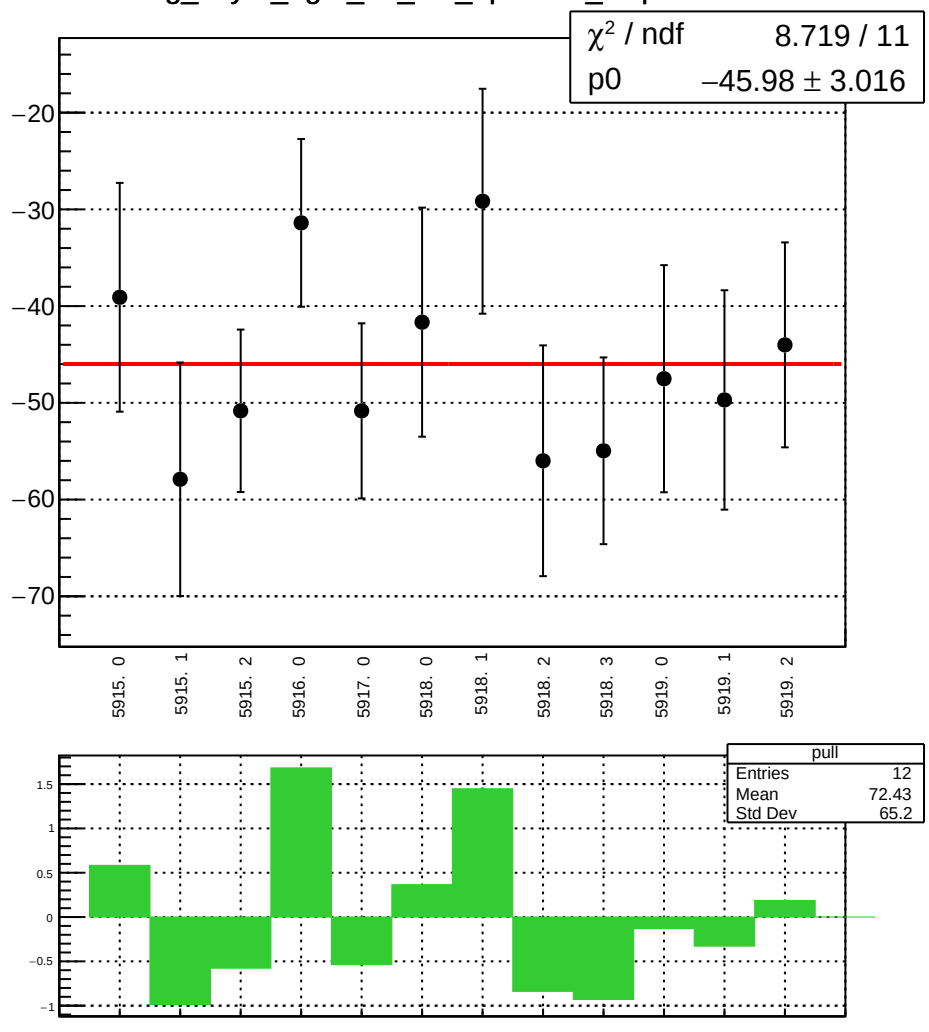

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.718 / 11
p0 88.72 ± 3.767
120
110
100
90
80
70
60
50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 26.56
Std Dev 17.7
1
0.5
0
−0.5
−1
−1.5

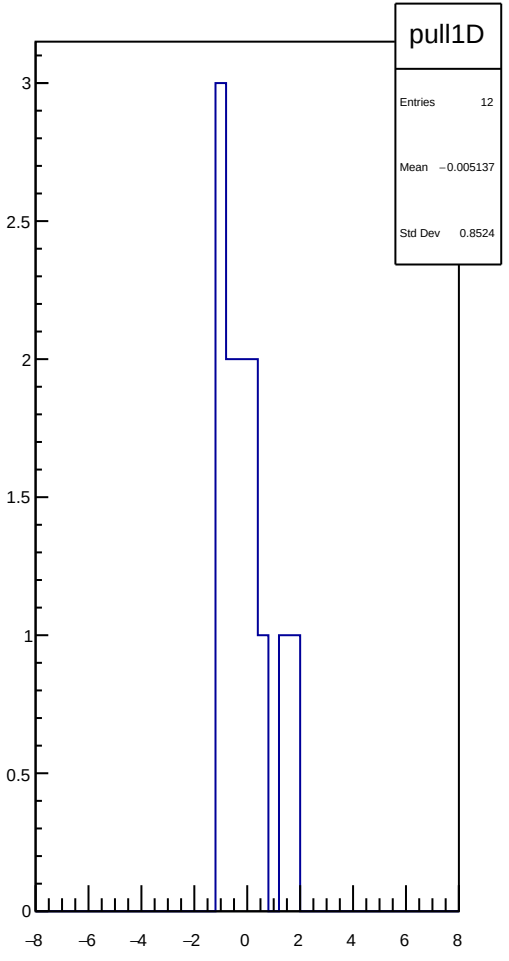

pull1D
Entries 12
Mean 0.01013
Std Dev 0.8019
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

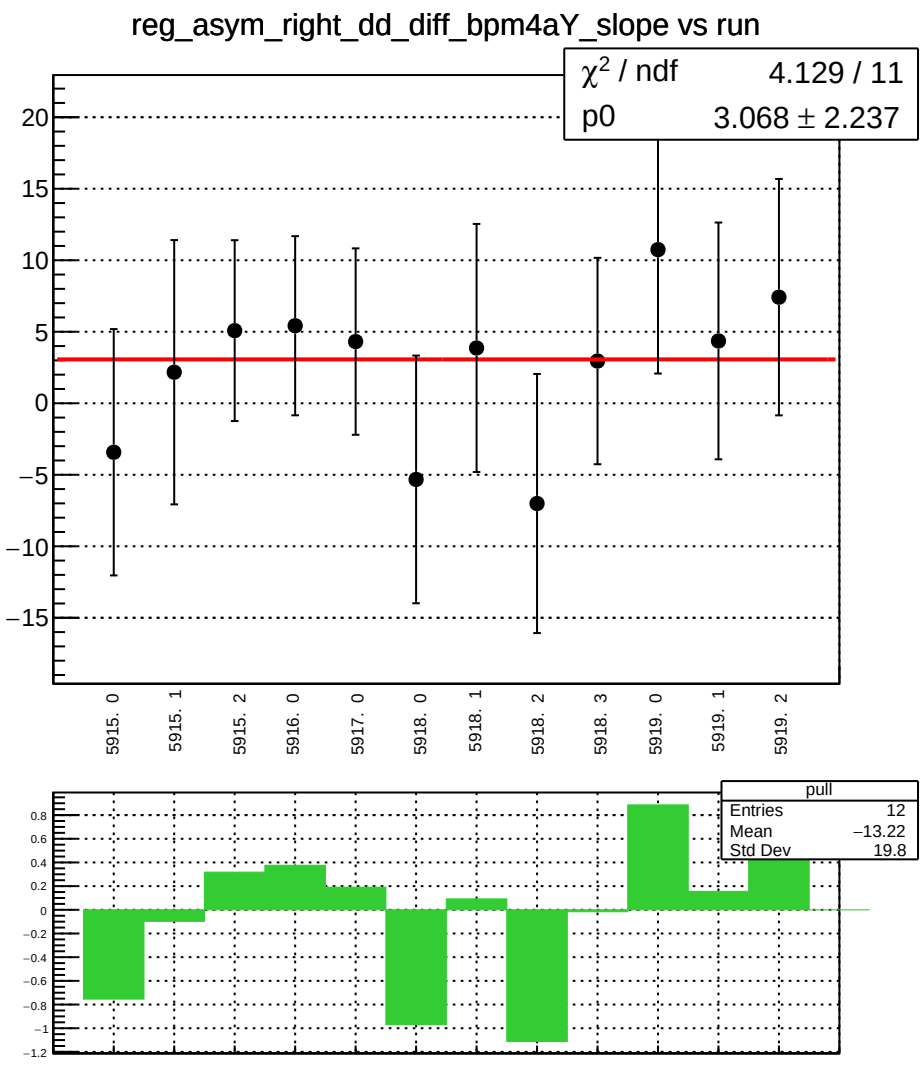

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.173 / 11
p0 5.063 ± 2.436
25
20
15
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −12.51
Std Dev 19.68
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

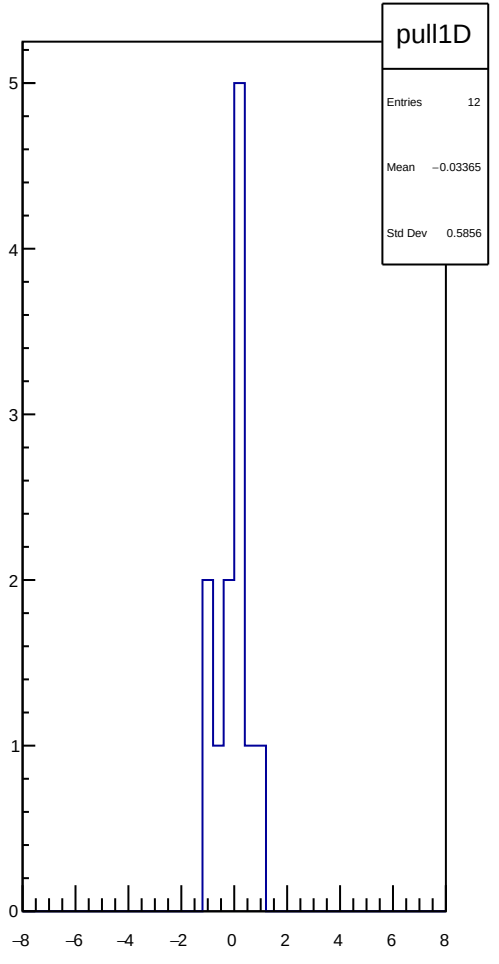

pull1D
Entries 12
Mean 0.02211
Std Dev 0.5138
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

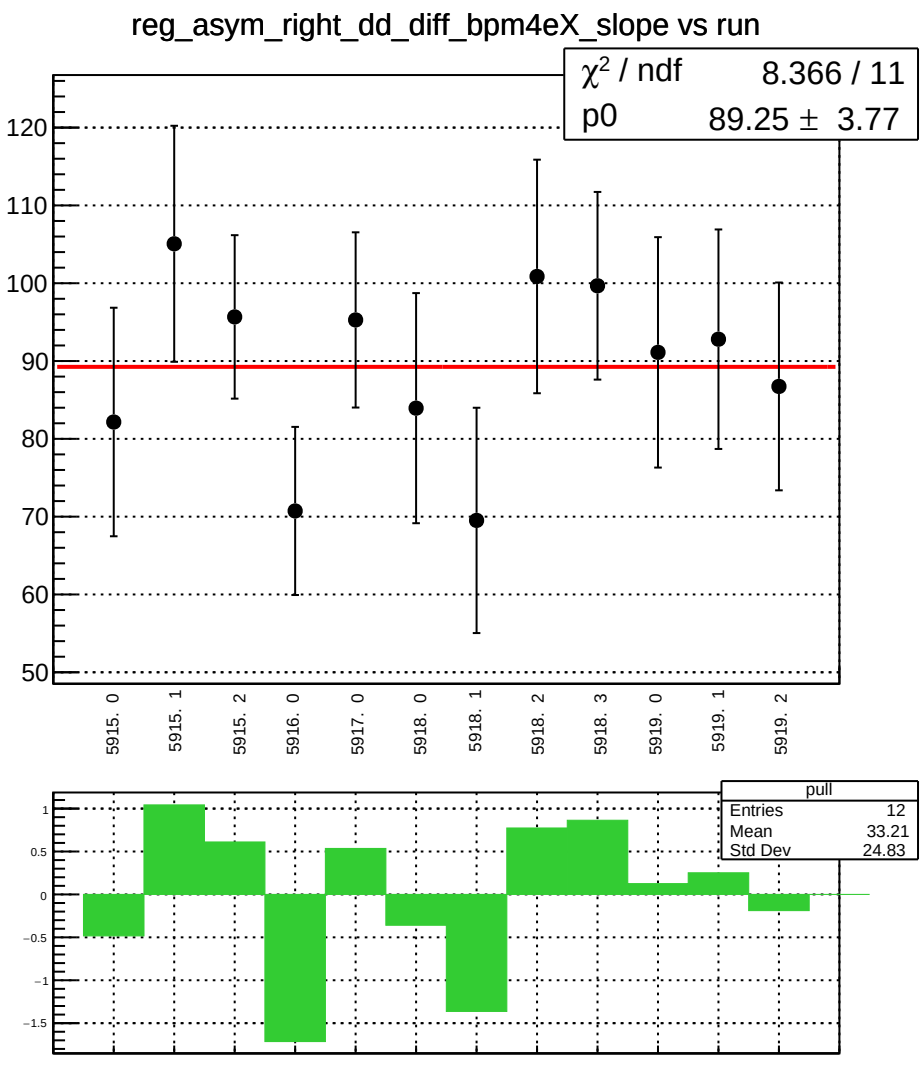

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 6.941 / 11
p0 −17.26 ± 0.1622
−15.5
−16
−16.5
−17
−17.5
−18
−18.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 70.16
Std Dev 63.65
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.02594
Std Dev 0.7601
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

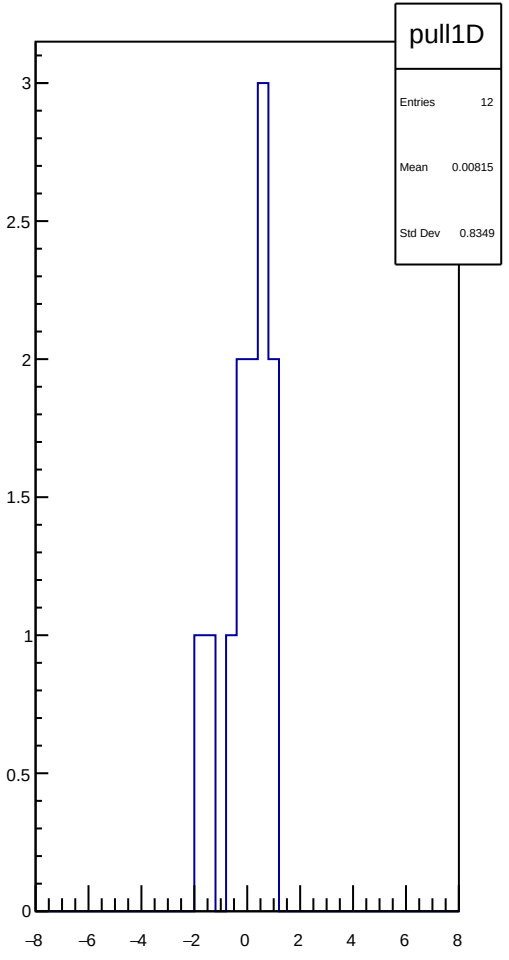

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.719 / 11
p0 −45.98 ± 3.016
−20
−30
−40
−50
−60
−70
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 72.43
Std Dev 65.2
1.5
1
0.5
0
−0.5
−1

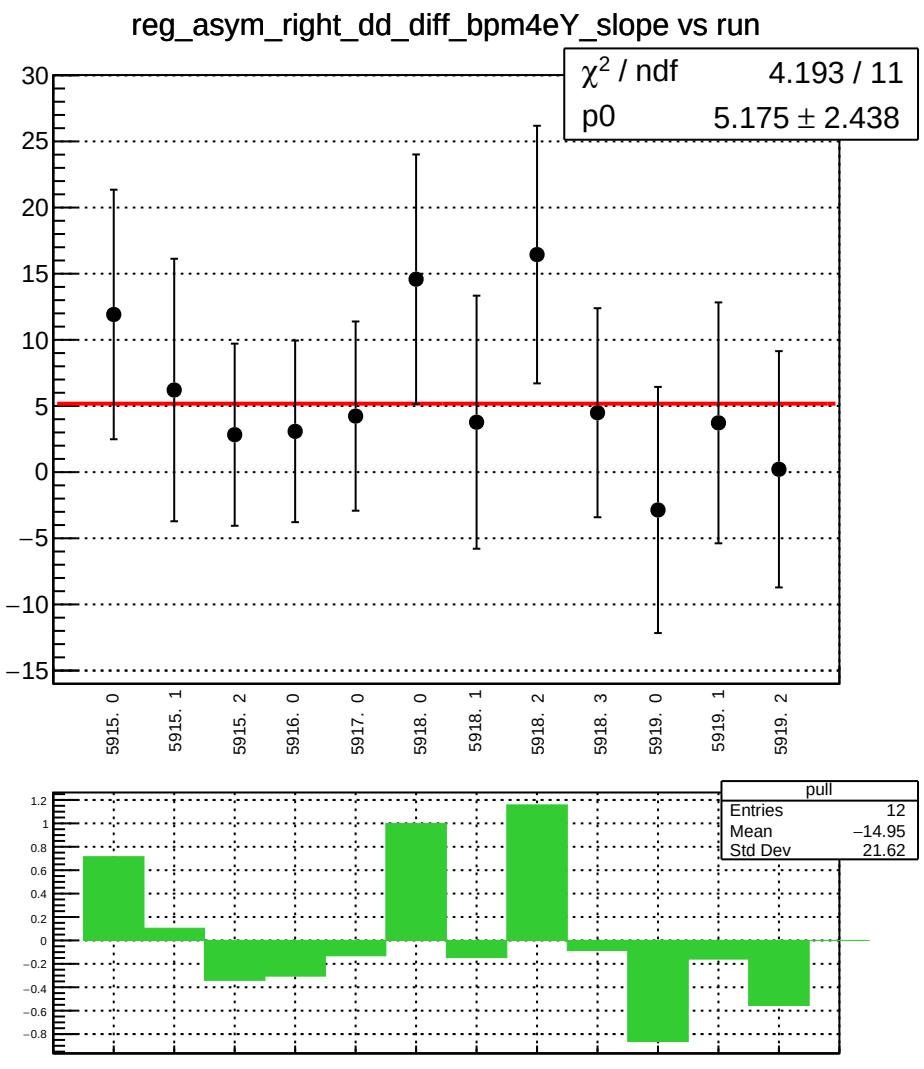

pull1D
Entries 12
Mean −0.005137
Std Dev 0.8524
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

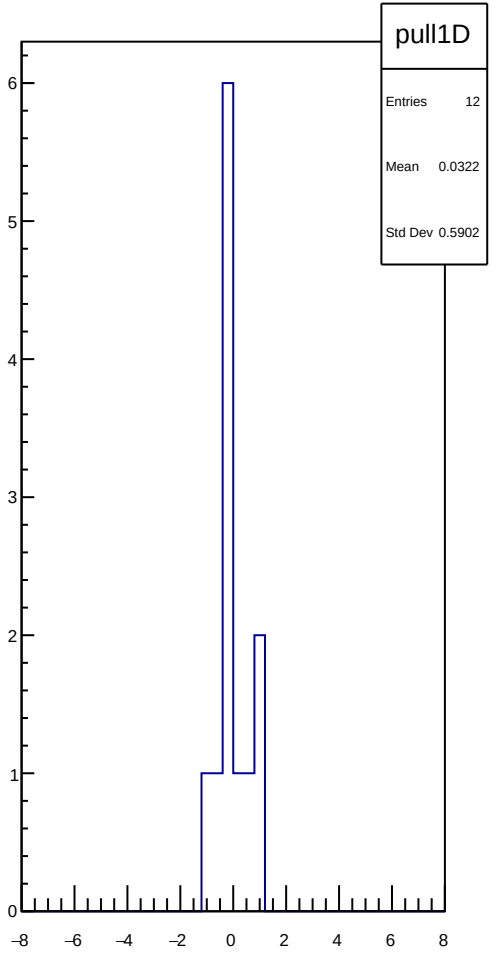

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.129 / 11
p0 3.068 ± 2.237
20
15
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −13.22
Std Dev 19.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

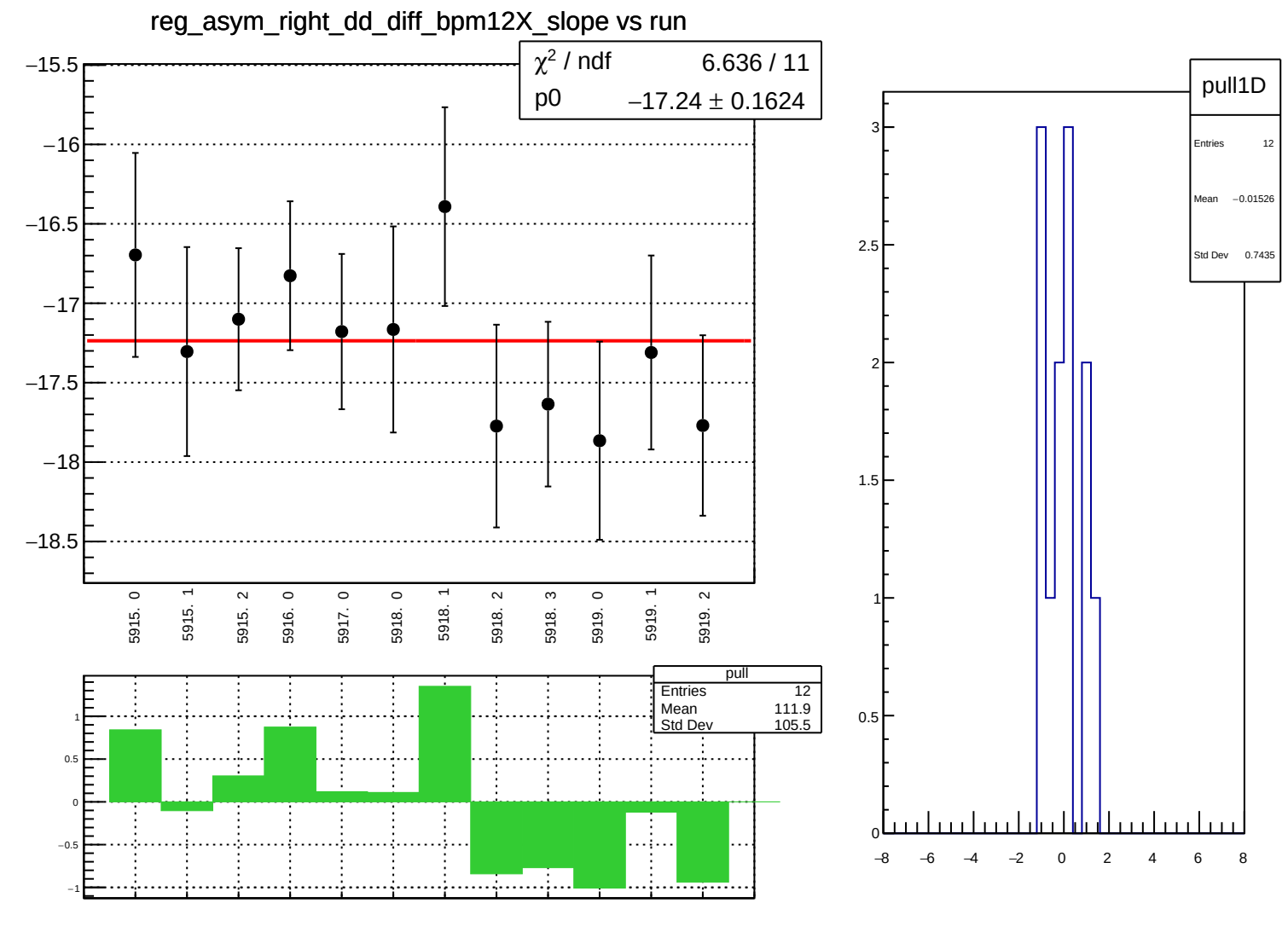

pull1D
Entries 12
Mean −0.03365
Std Dev 0.5856
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

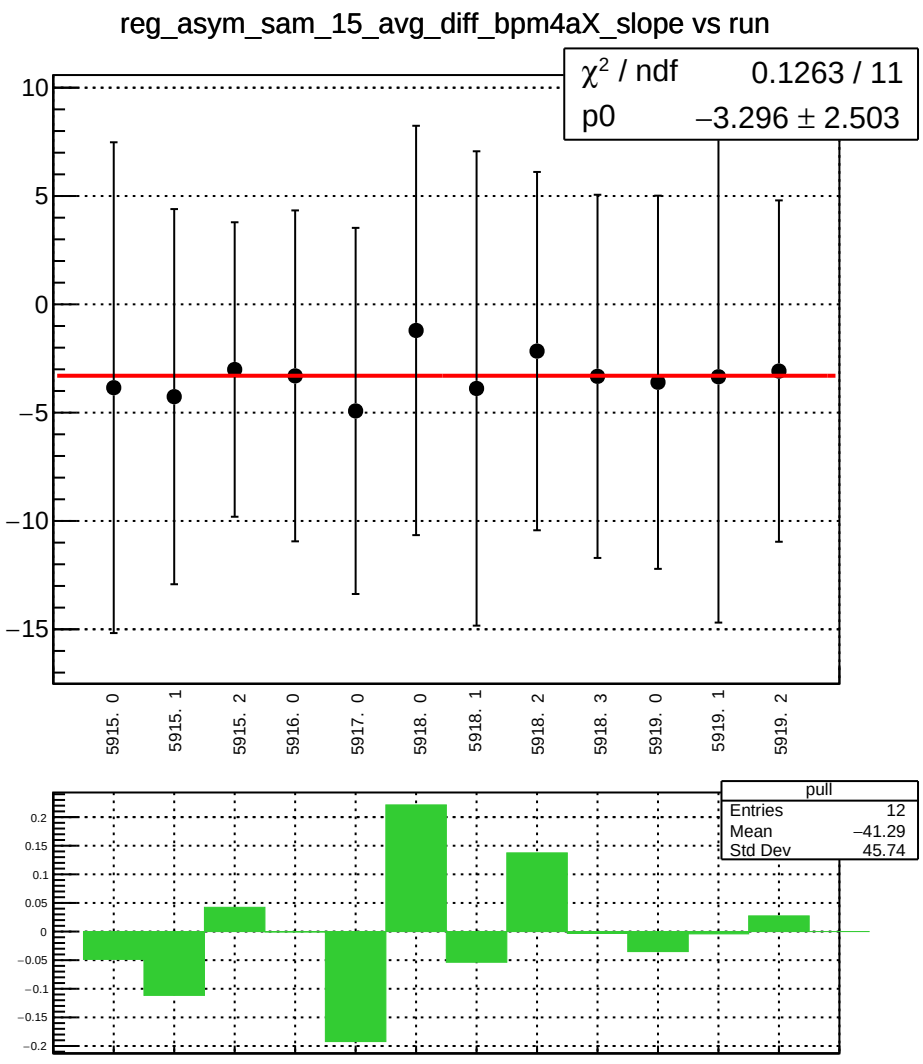

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.366 / 11
p0 89.25 ± 3.77
120
110
100
90
80
70
60
50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 33.21
Std Dev 24.83
1
0.5
0
−0.5
−1
−1.5

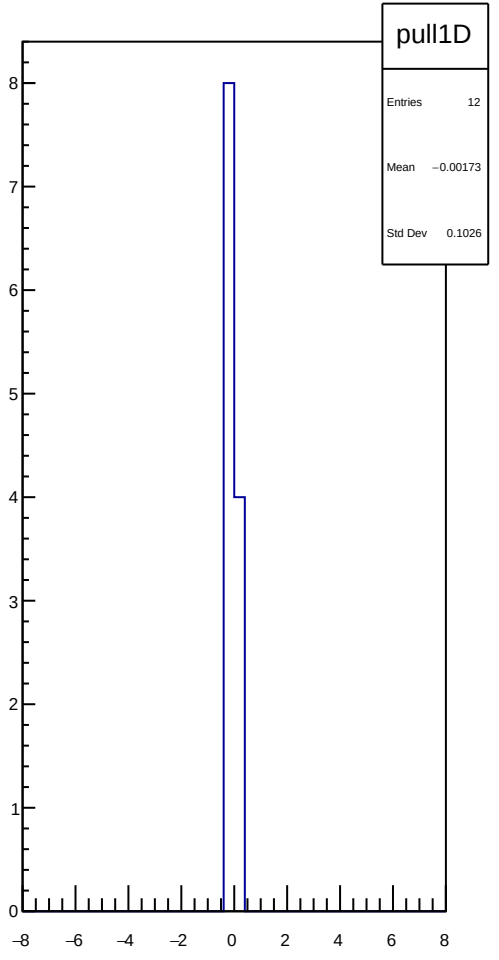

pull1D
Entries 12
Mean 0.00815
Std Dev 0.8349
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

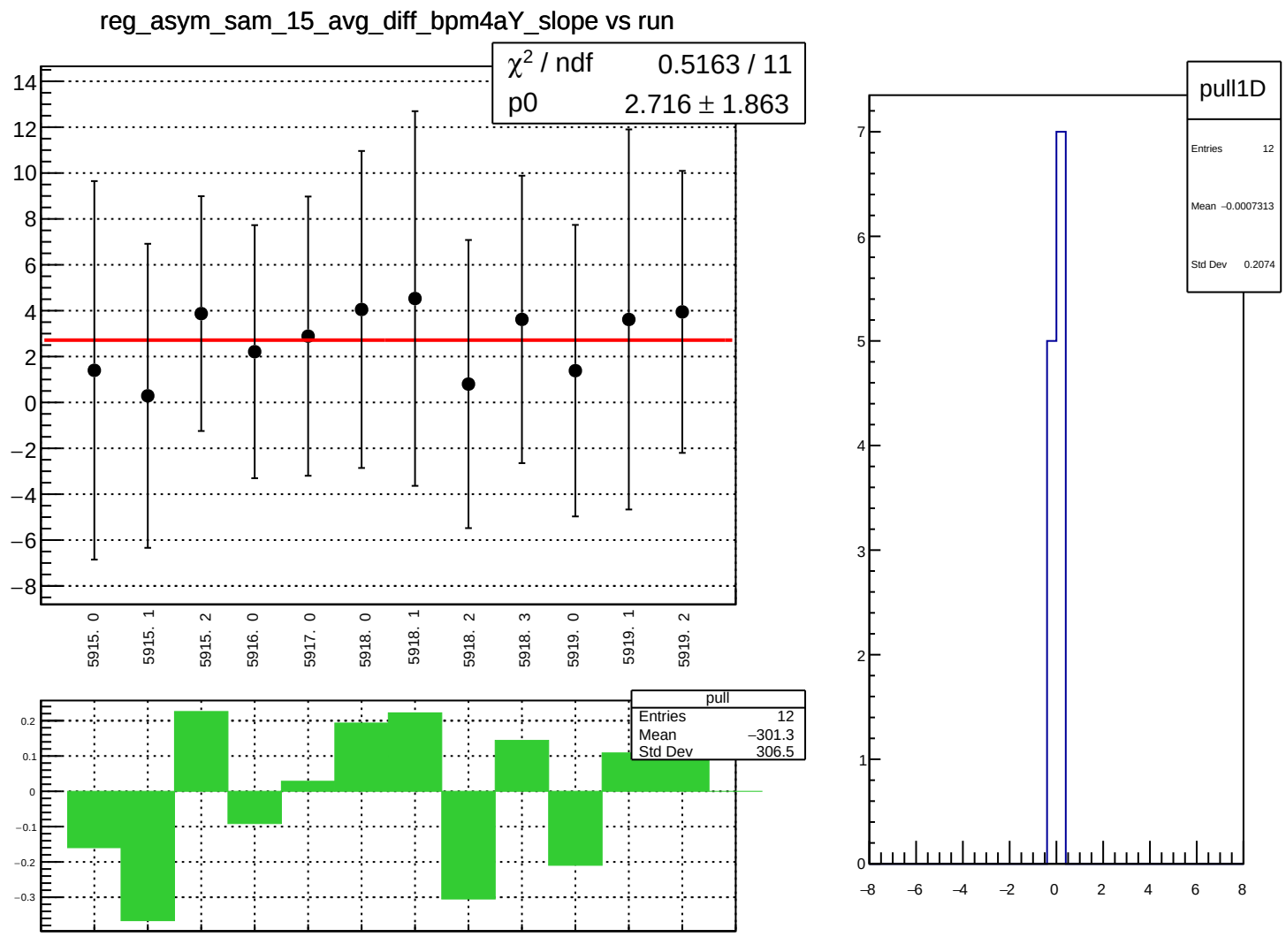

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.193 / 11
p0 5.175 ± 2.438
30
25
20
15
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −14.95
Std Dev 21.62
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

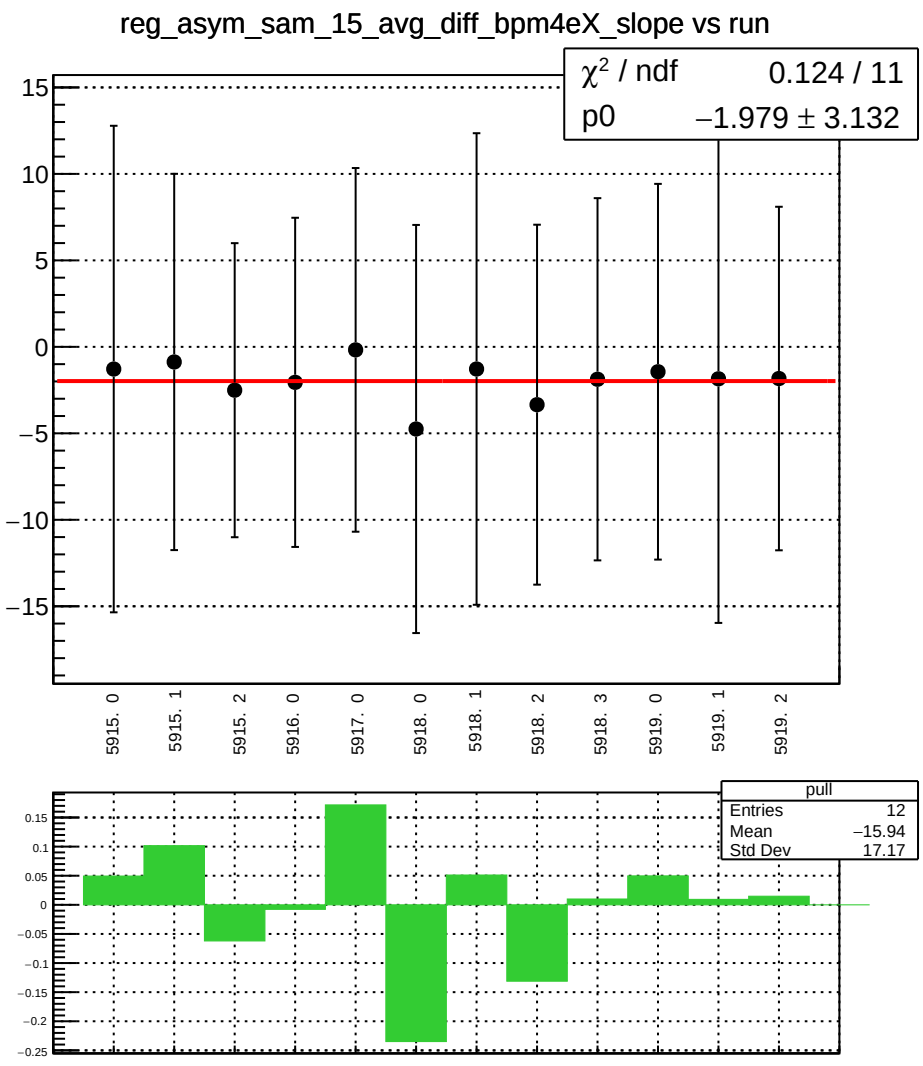

pull1D
Entries 12
Mean 0.0322
Std Dev 0.5902
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

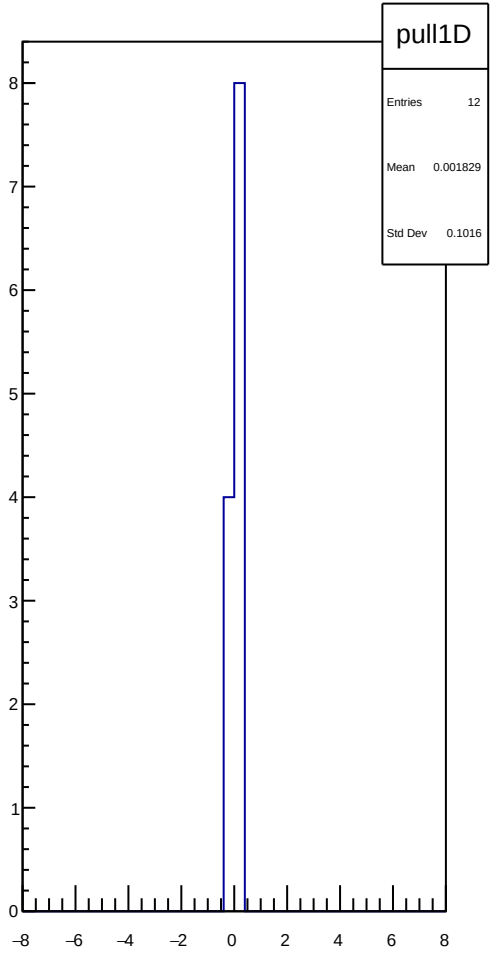

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 6.636 / 11
p0 −17.24 ± 0.1624
−15.5
−16
−16.5
−17
−17.5
−18
−18.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 111.9
Std Dev 105.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.01526
Std Dev 0.7435
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

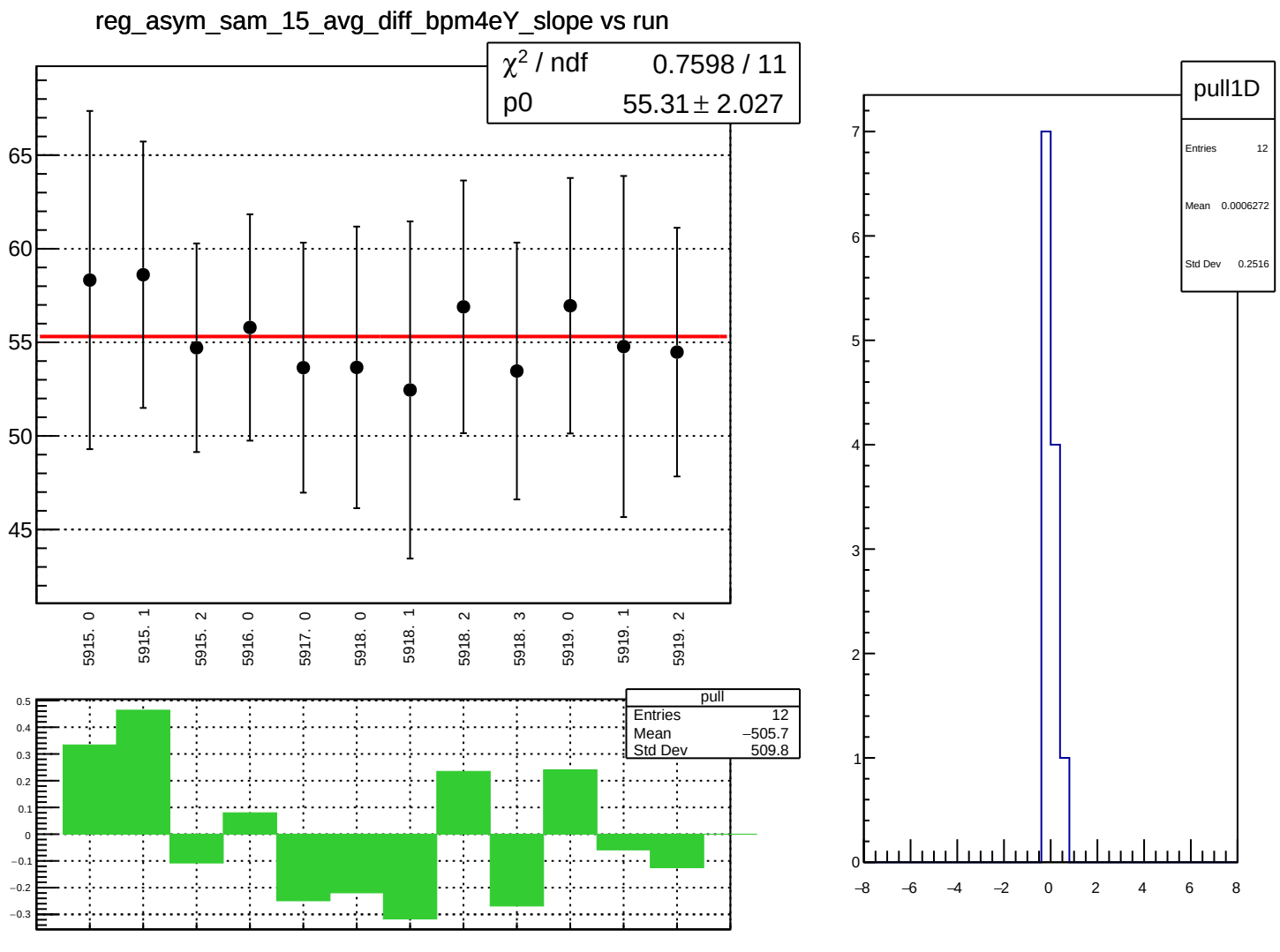

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.1263 / 11
p0 −3.296 ± 2.503
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −41.29
Std Dev 45.74
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

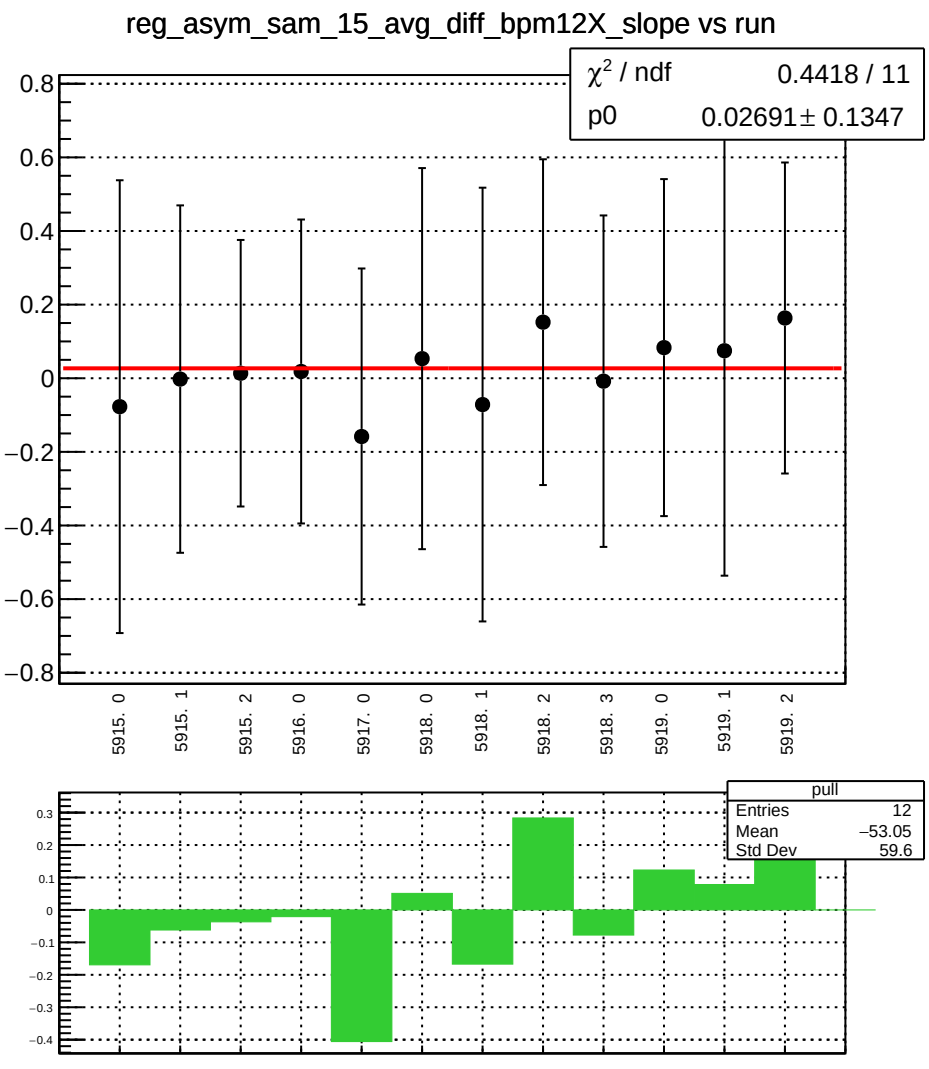

pull1D
Entries 12
Mean −0.00173
Std Dev 0.1026
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

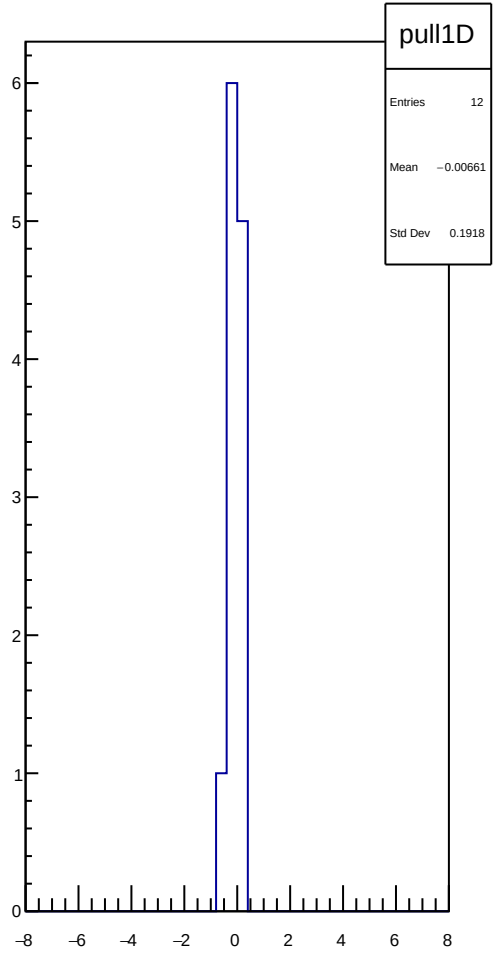

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5163 / 11
p0 2.716 ± 1.863
14
12
10
8
6
4
2
0
−2
−4
−6
−8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −301.3
Std Dev 306.5
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.0007313
Std Dev 0.2074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

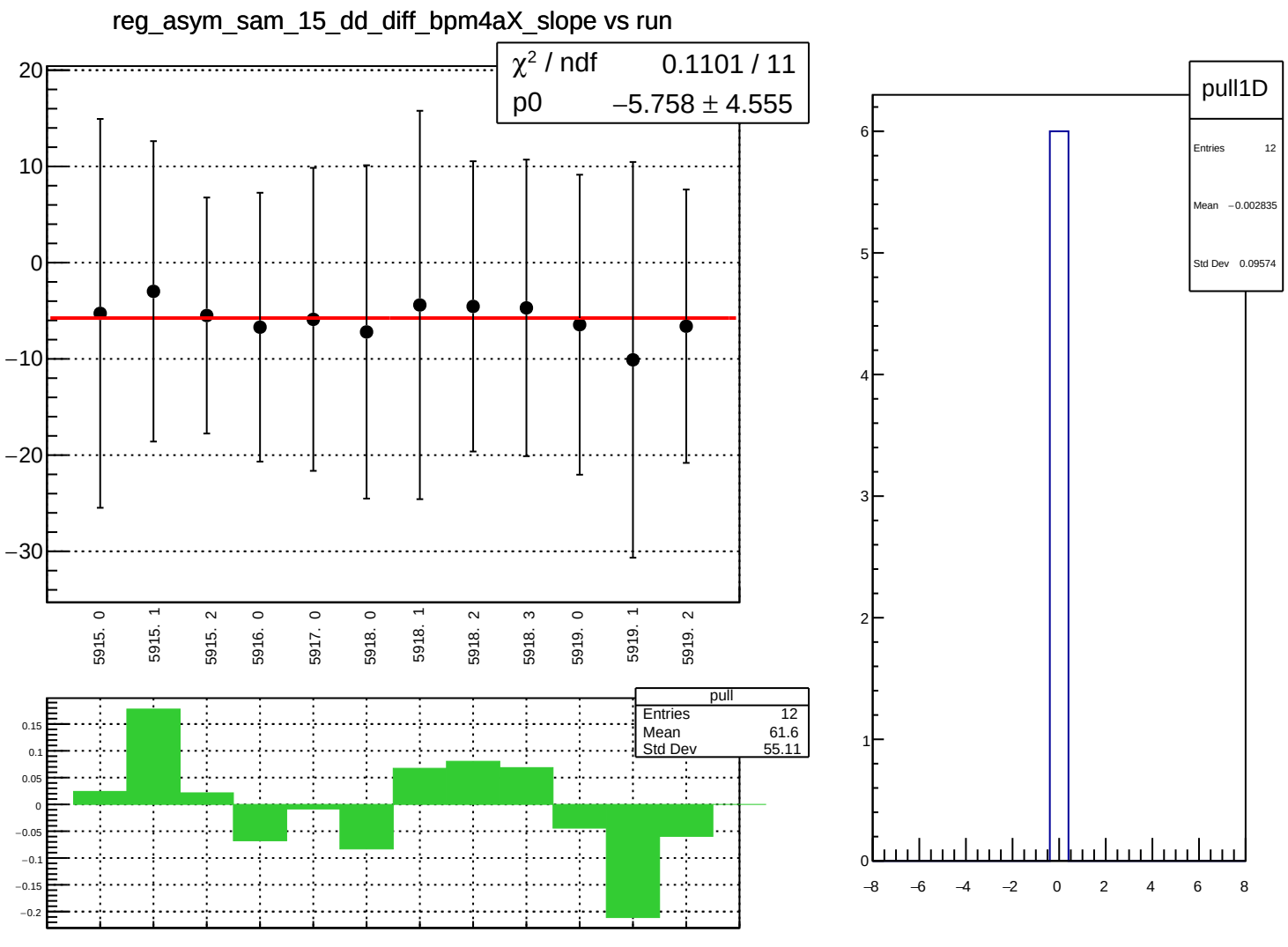

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.124 / 11
p0 −1.979 ± 3.132
15
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −15.94
Std Dev 17.17
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

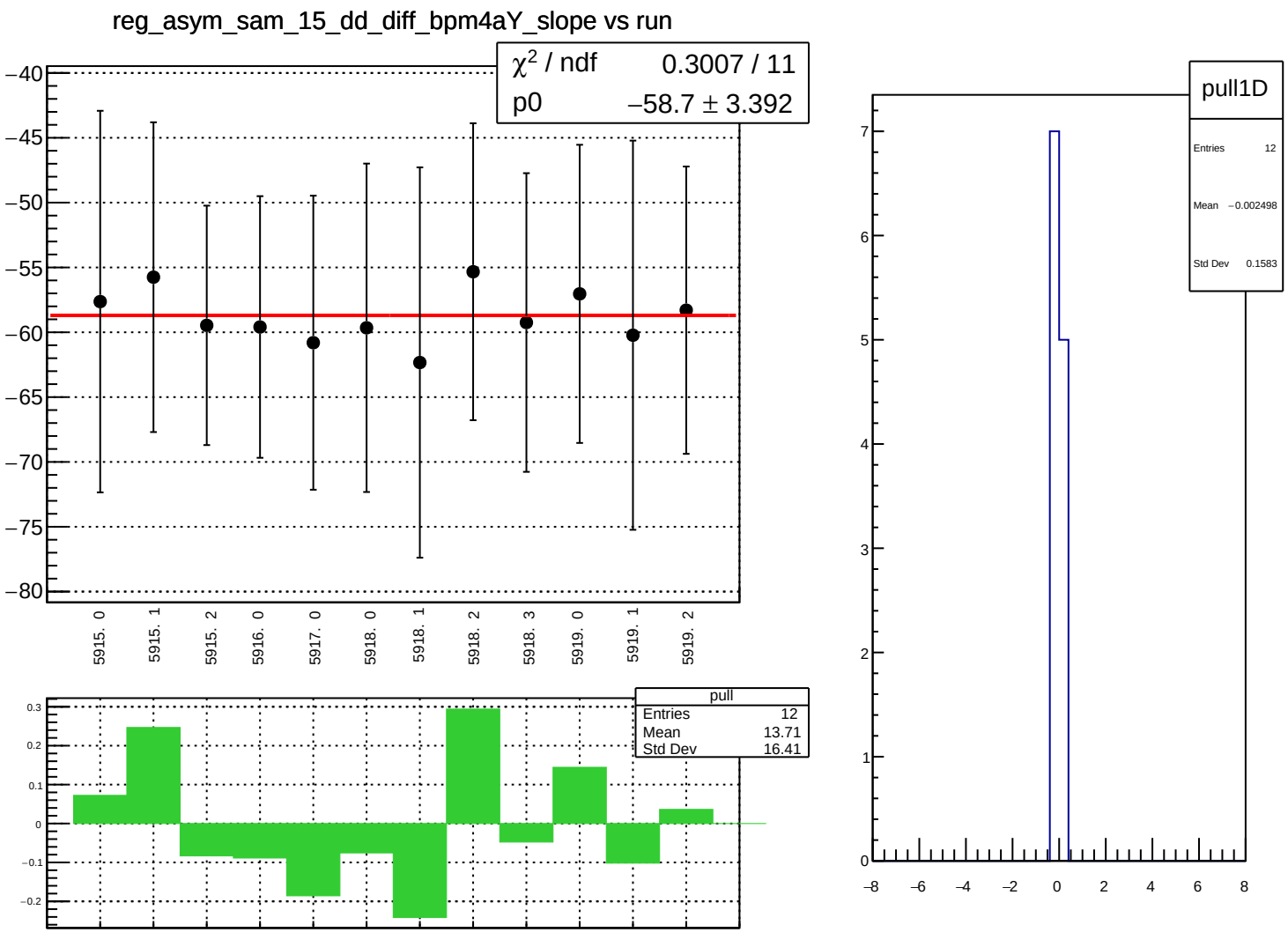

pull1D
Entries 12
Mean 0.001829
Std Dev 0.1016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

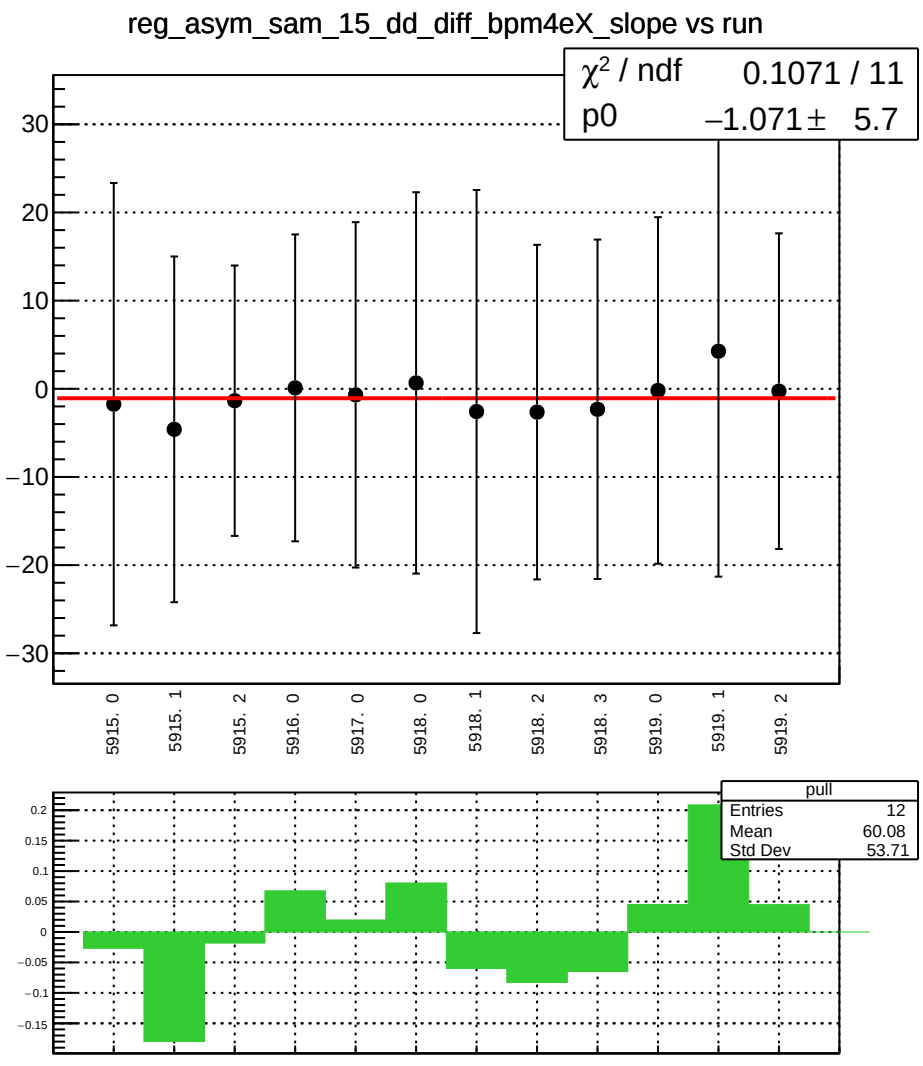

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.7598 / 11
p0 55.31 ± 2.027
65
60
55
50
45
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −505.7
Std Dev 509.8
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.0006272
Std Dev 0.2516
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

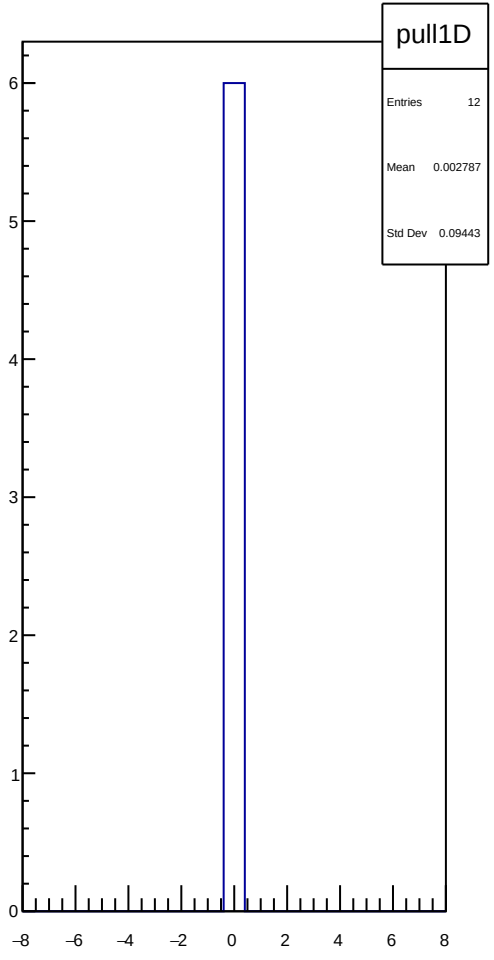

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 0.4418 / 11
p0 0.02691 ± 0.1347
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −53.05
Std Dev 59.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

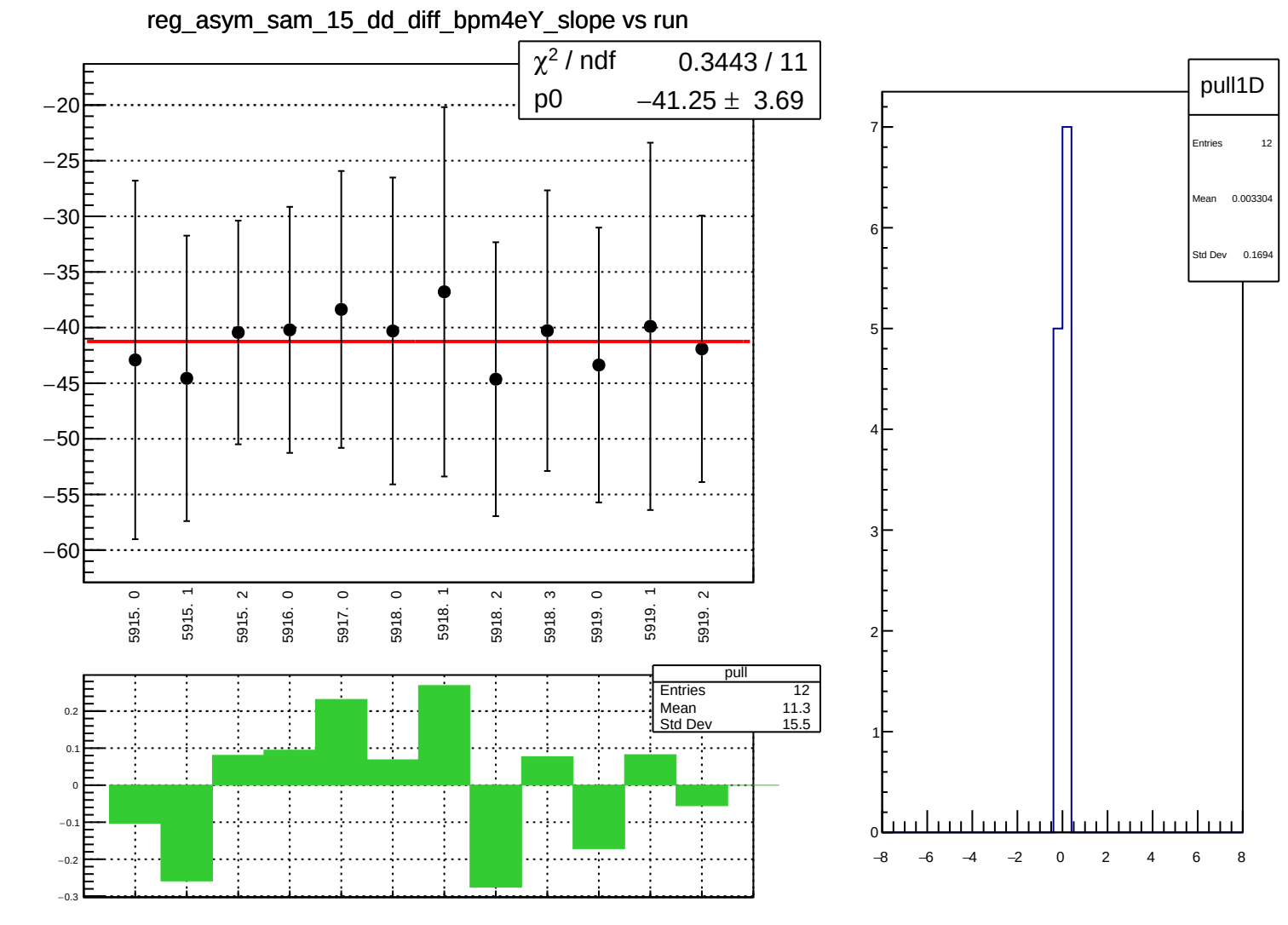

pull1D
Entries 12
Mean −0.00661
Std Dev 0.1918
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

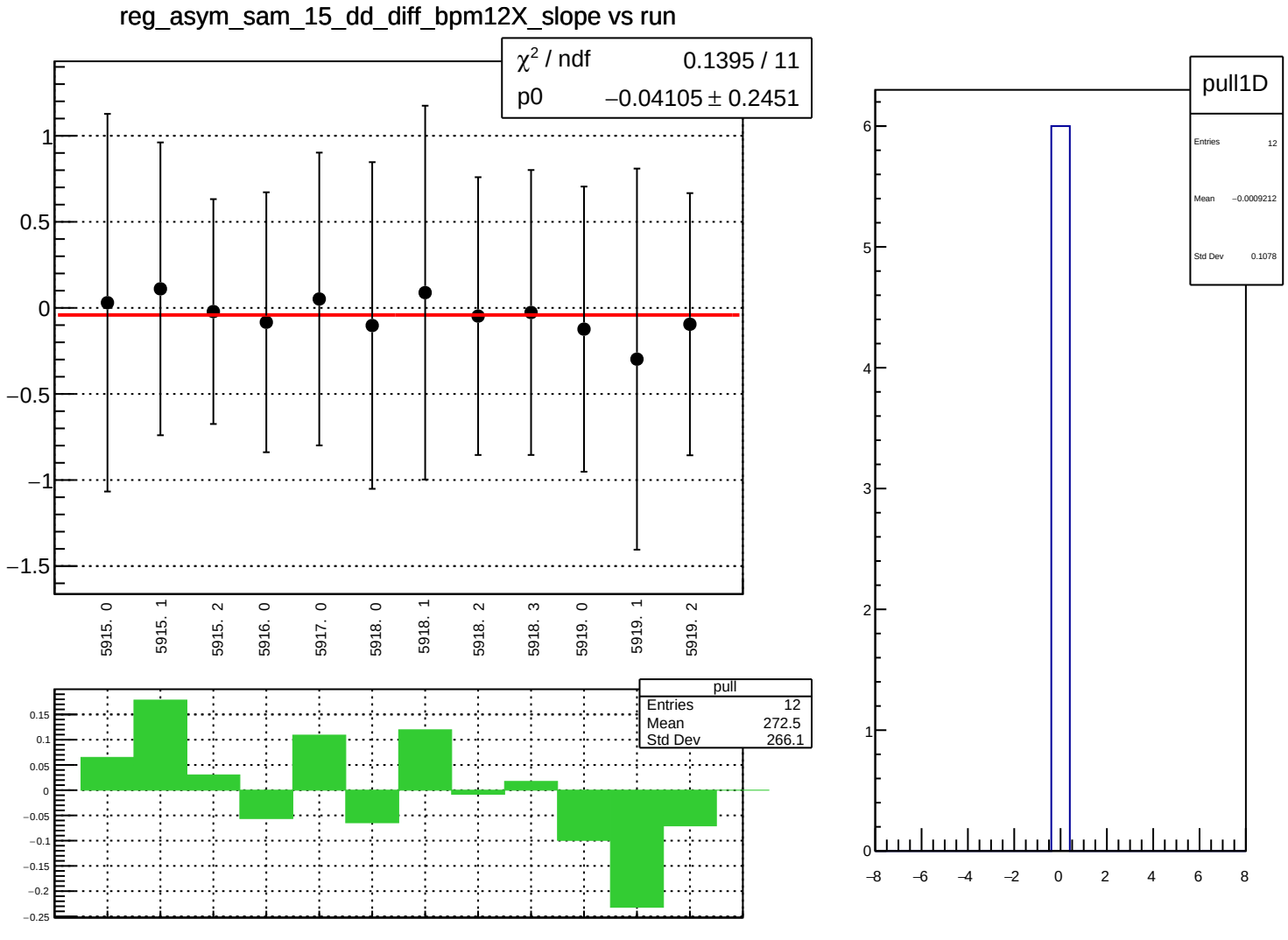

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.1101 / 11
p0 −5.758 ± 4.555
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 61.6
Std Dev 55.11
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 12
Mean −0.002835
Std Dev 0.09574
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

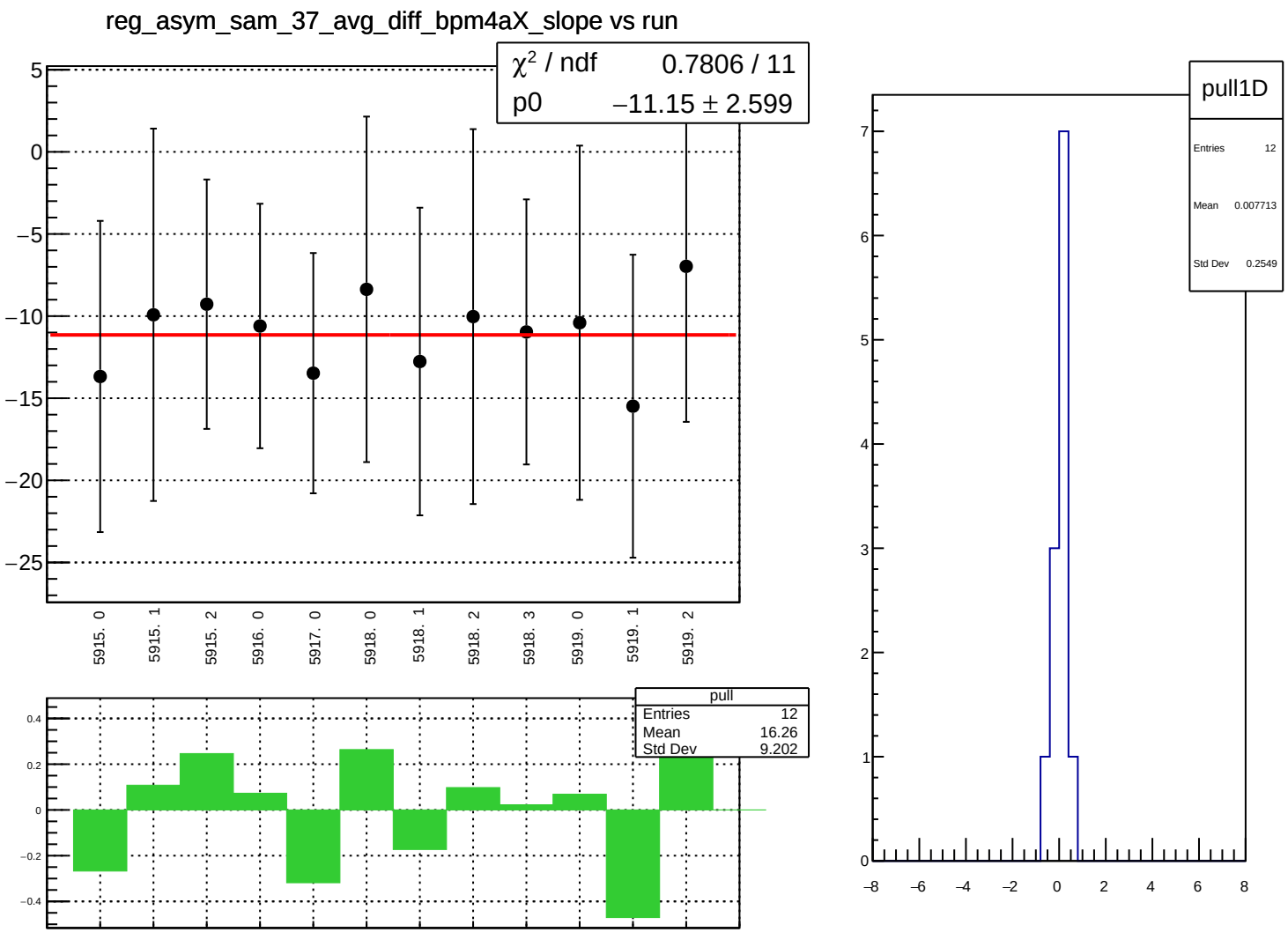

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.3007 / 11
p0 −58.7 ± 3.392
−40
−45
−50
−55
−60
−65
−70
−75
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.71
Std Dev 16.41
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 12
Mean −0.002498
Std Dev 0.1583
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

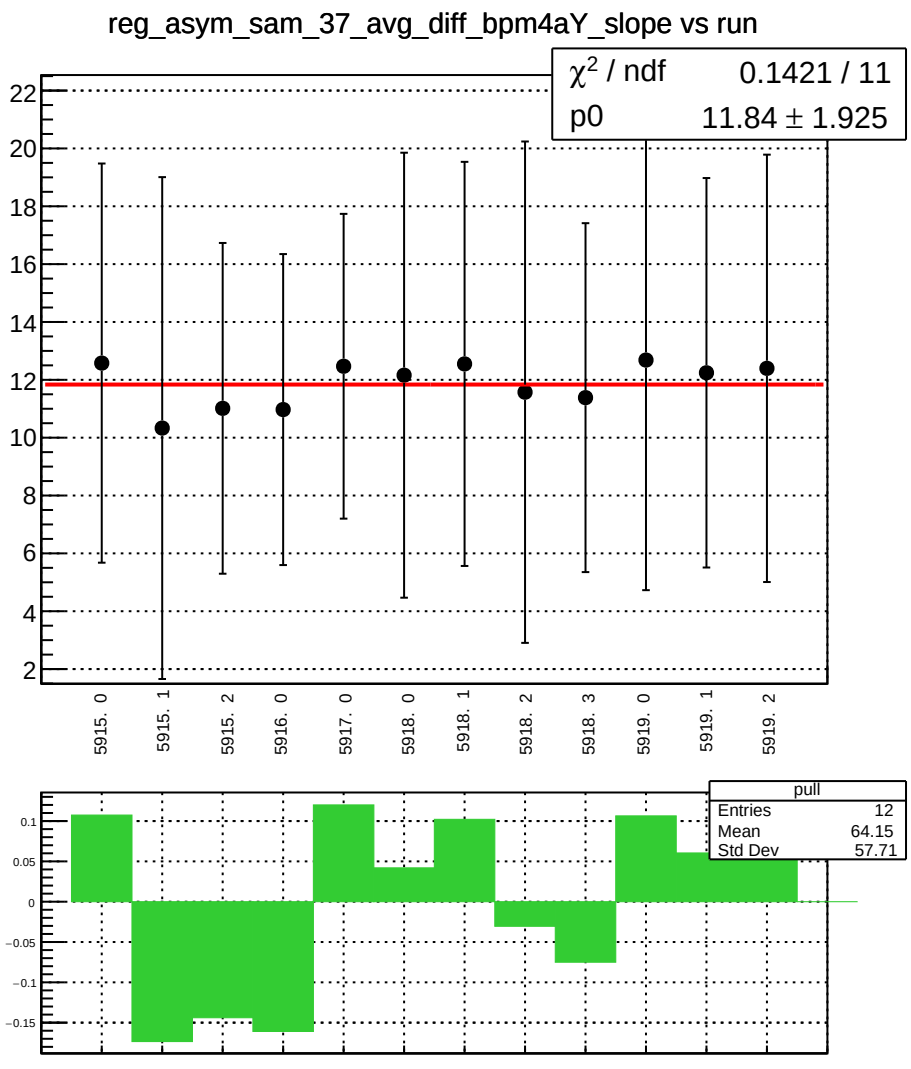

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1071 / 11
p0 −1.071 ± 5.7
30
20
10
0
−10
−20
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 60.08
Std Dev 53.71
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

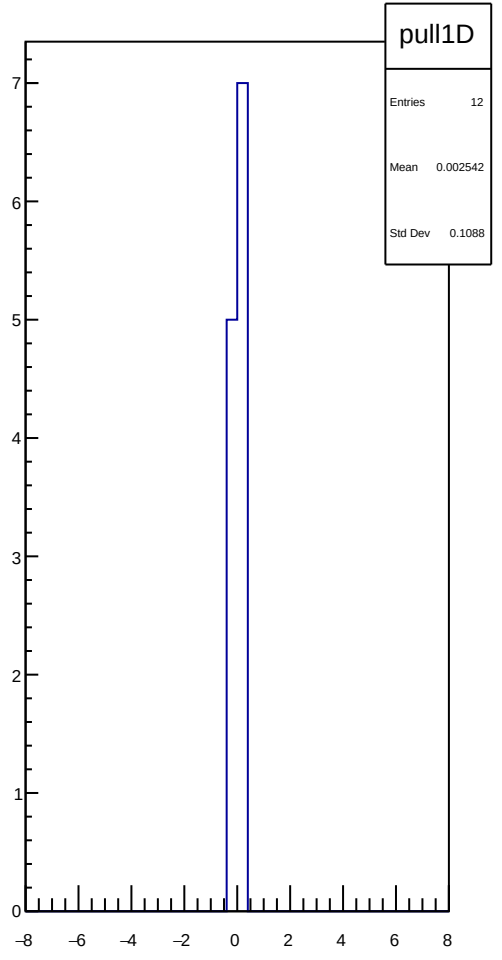

pull1D
Entries 12
Mean 0.002787
Std Dev 0.09443
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

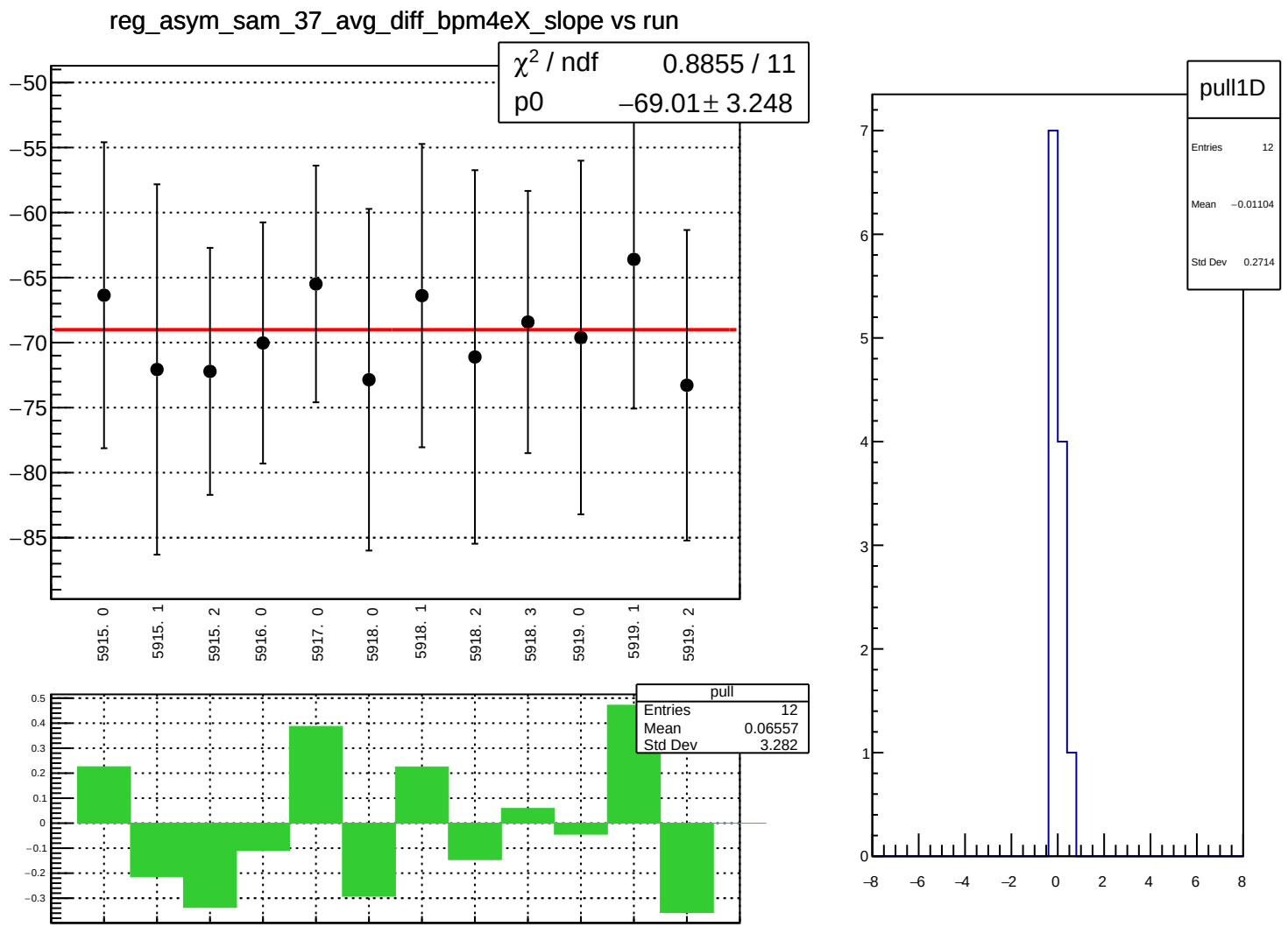

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3443 / 11
p0 −41.25 ± 3.69
−20
−25
−30
−35
−40
−45
−50
−55
−60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.3
Std Dev 15.5
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.003304
Std Dev 0.1694
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

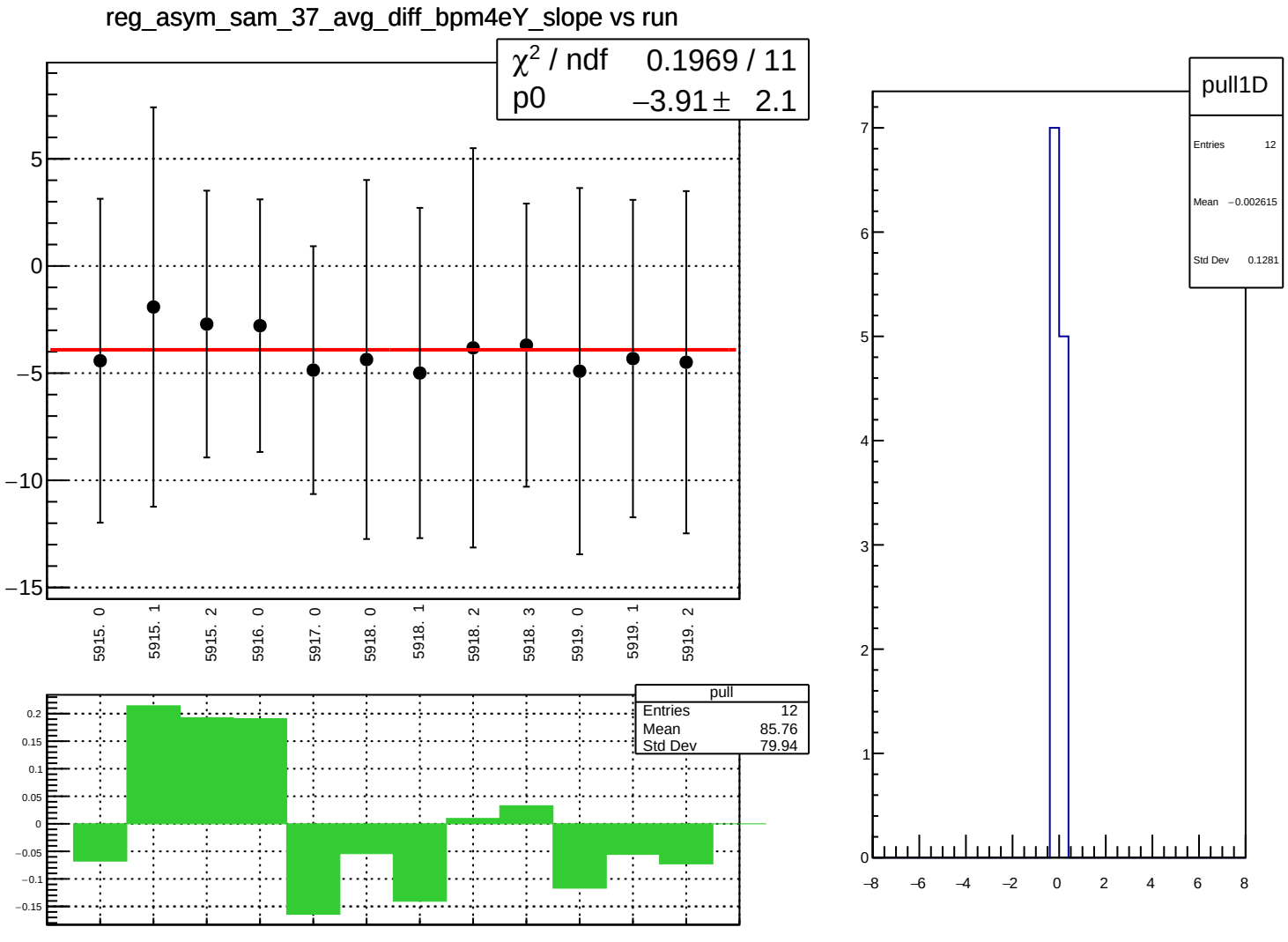

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1395 / 11
p0 −0.04105 ± 0.2451
1
0.5
0
−0.5
−1
−1.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 272.5
Std Dev 266.1
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 12
Mean −0.0009212
Std Dev 0.1078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

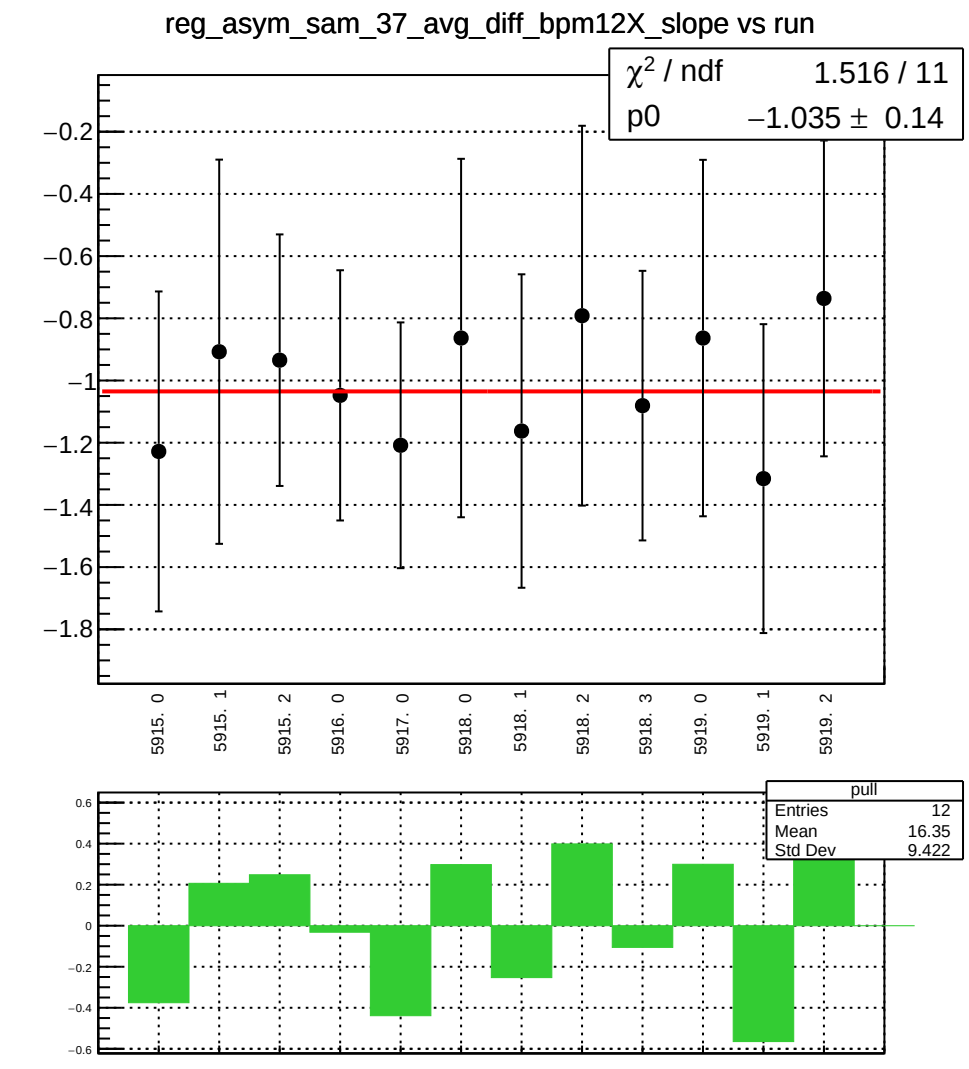

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.7806 / 11
p0 −11.15 ± 2.599
5
0
−5
−10
−15
−20
−25
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.26
Std Dev 9.202
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 12
Mean 0.007713
Std Dev 0.2549
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

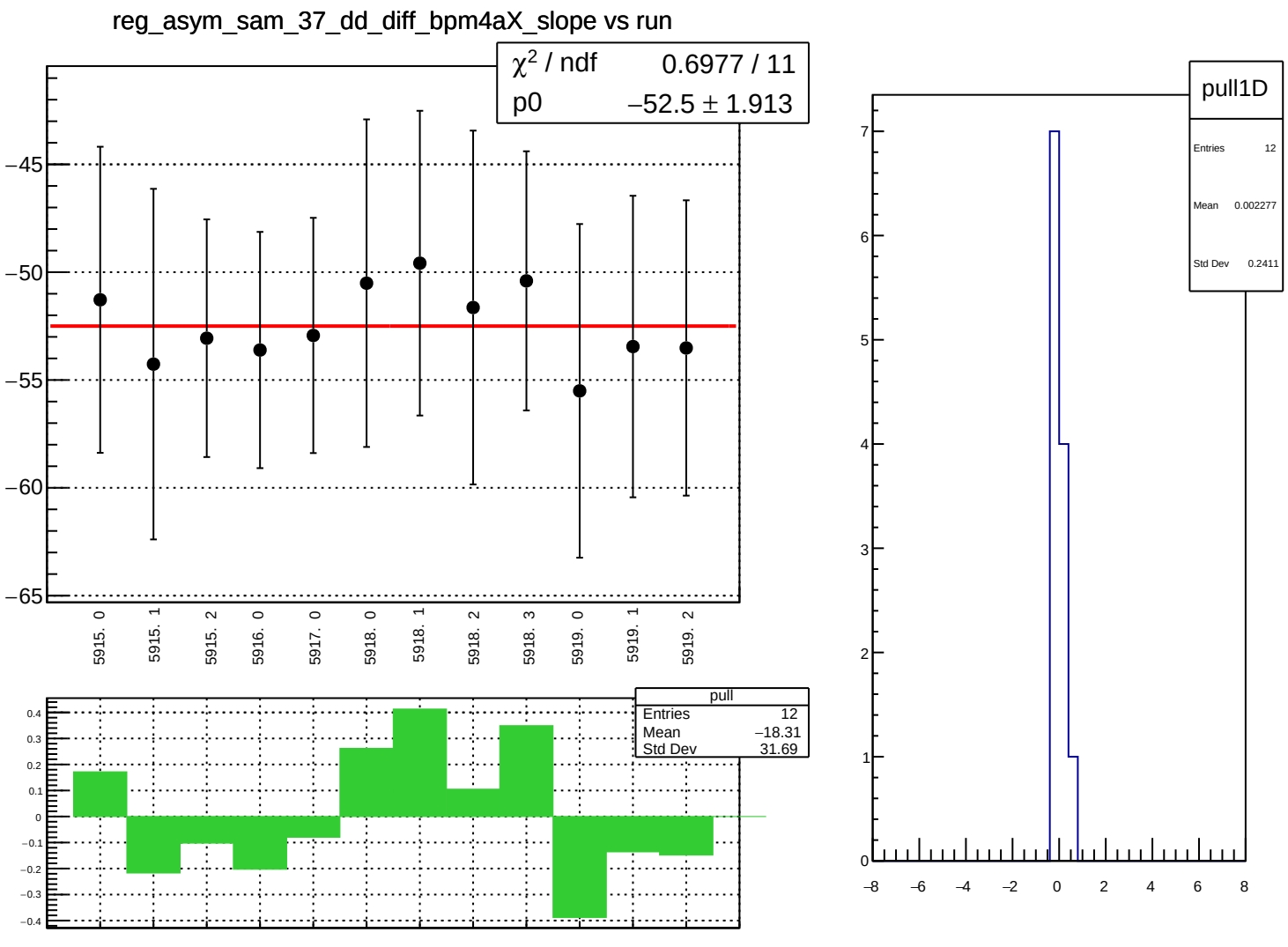

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.1421 / 11
p0 11.84 ± 1.925
22
20
18
16
14
12
10
8
6
4
2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 64.15
Std Dev 57.71
0.1
0.05
0
−0.05
−0.1
−0.15

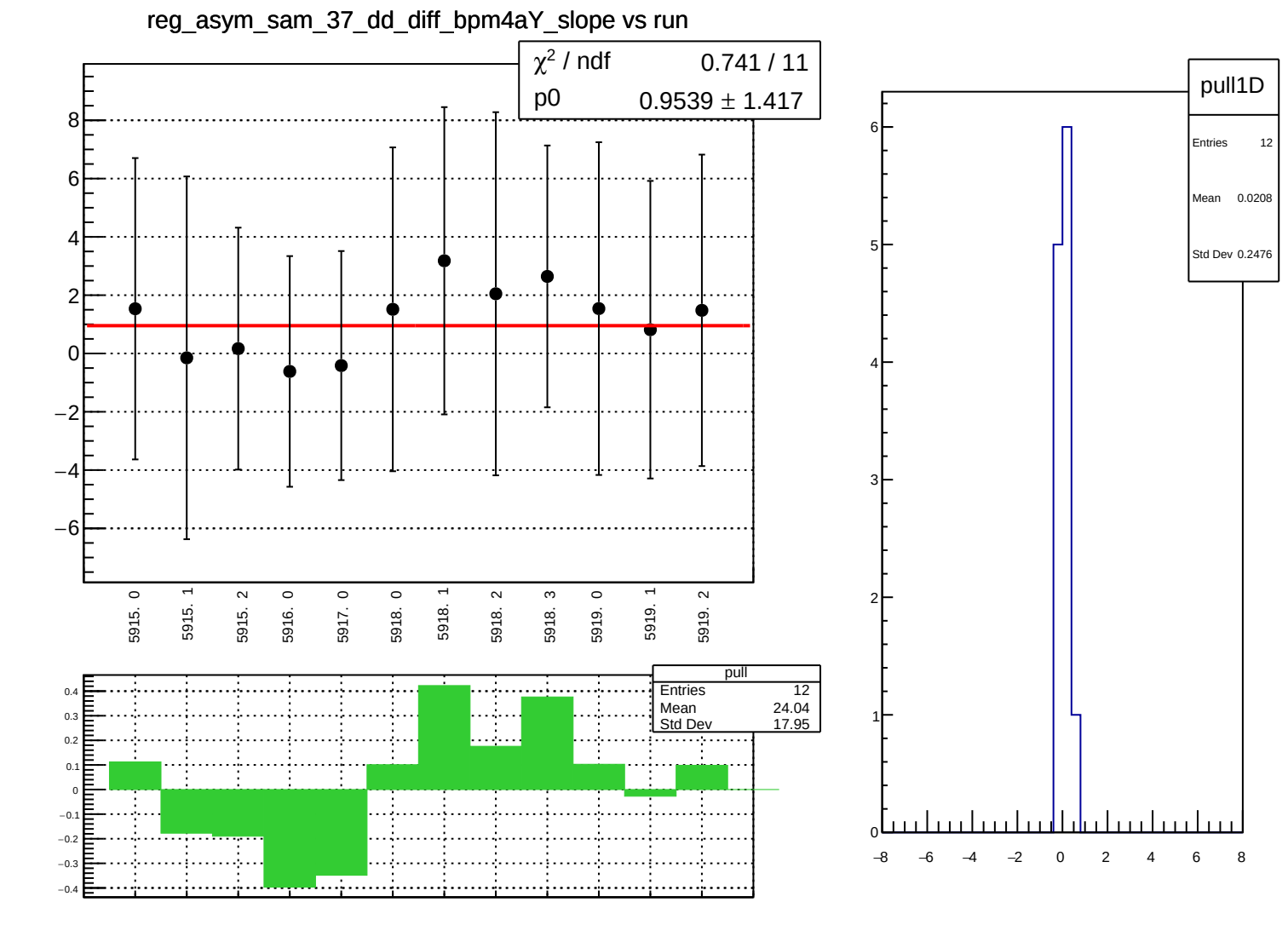

pull1D
Entries 12
Mean 0.002542
Std Dev 0.1088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

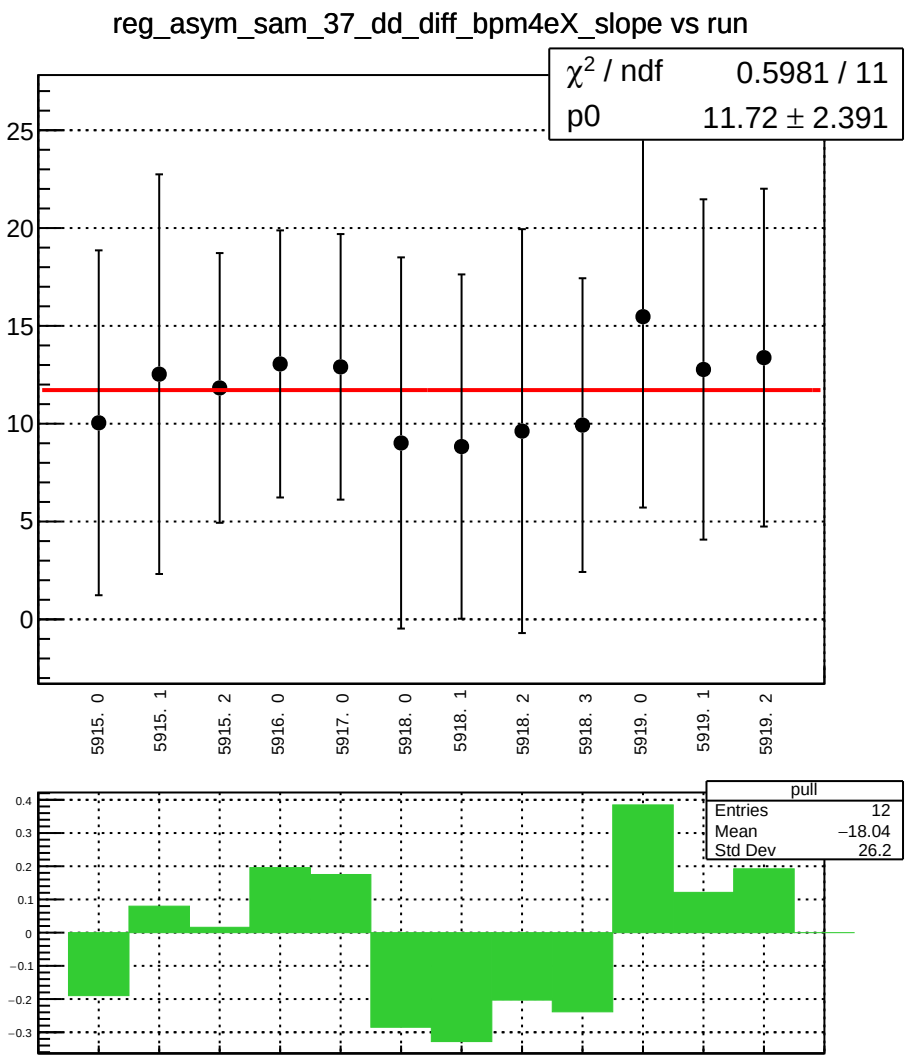

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.8855 / 11
p0 −69.01± 3.248
−50
−55
−60
−65
−70
−75
−80
−85
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.06557
Std Dev 3.282
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.01104
Std Dev 0.2714
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

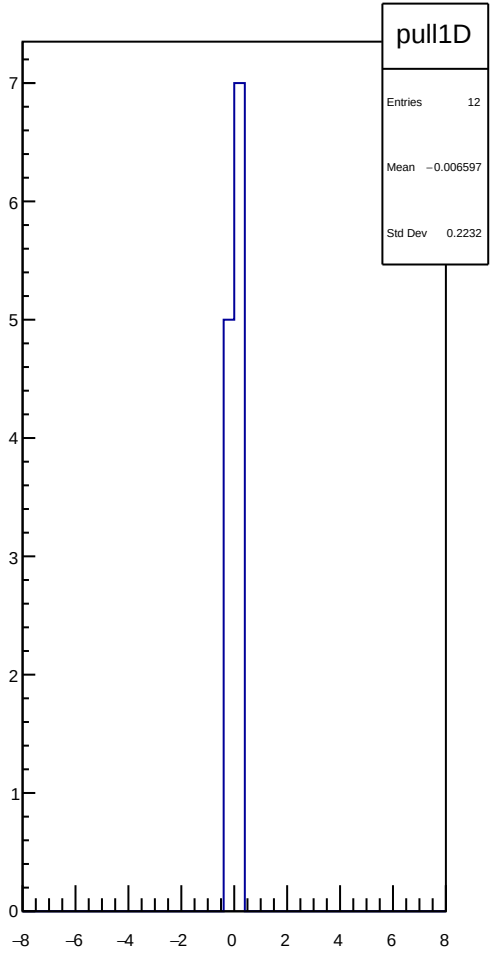

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.1969 / 11
p0 −3.91 ± 2.1
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 85.76
Std Dev 79.94
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 12
Mean −0.002615
Std Dev 0.1281
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

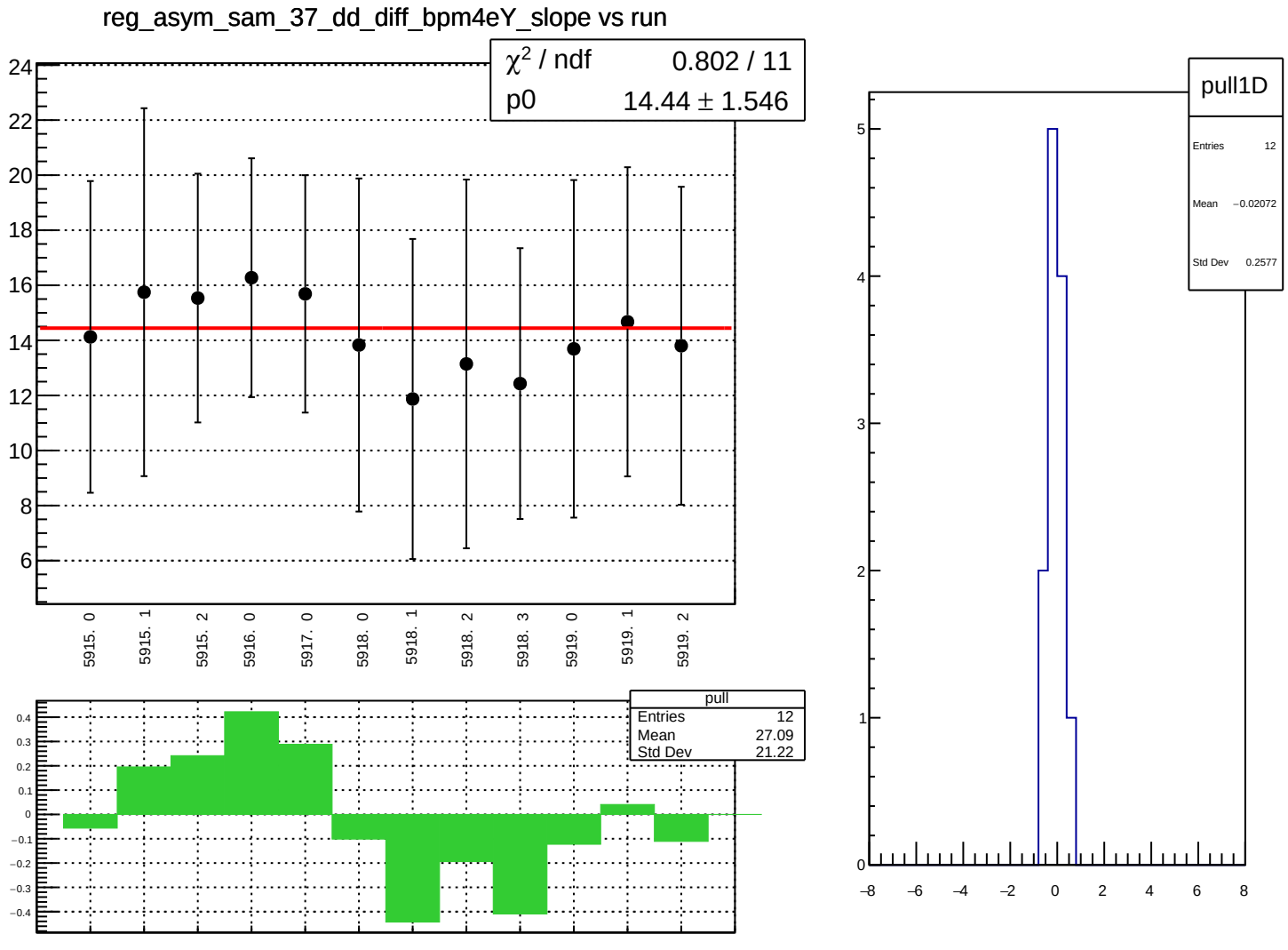

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.516 / 11
p0 −1.035 ± 0.14
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.35
Std Dev 9.422
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean 0.02259
Std Dev 0.3547
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

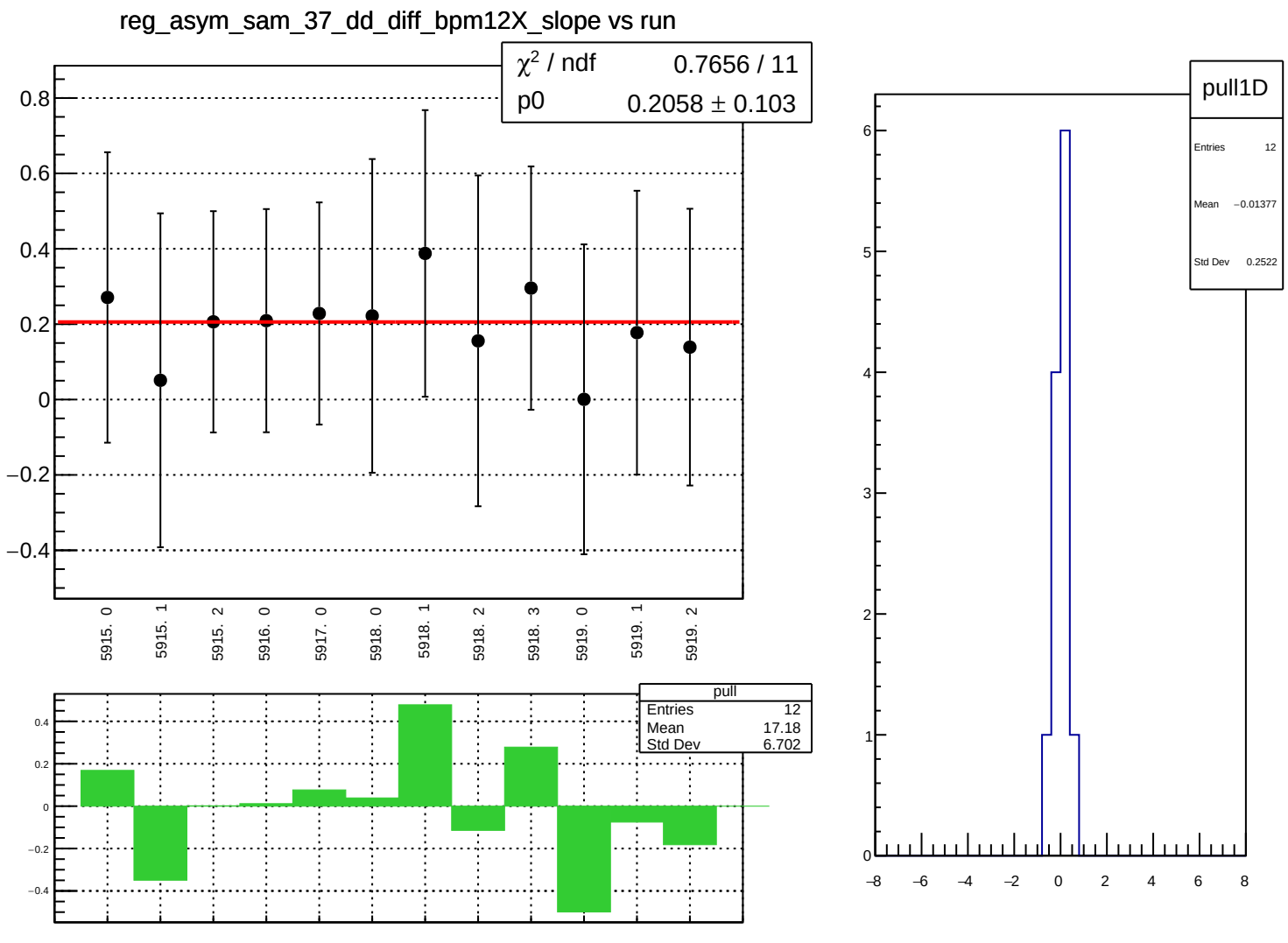

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.6977 / 11
p0 −52.5 ± 1.913
−45
−50
−55
−60
−65
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −18.31
Std Dev 31.69
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 12
Mean 0.002277
Std Dev 0.2411
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

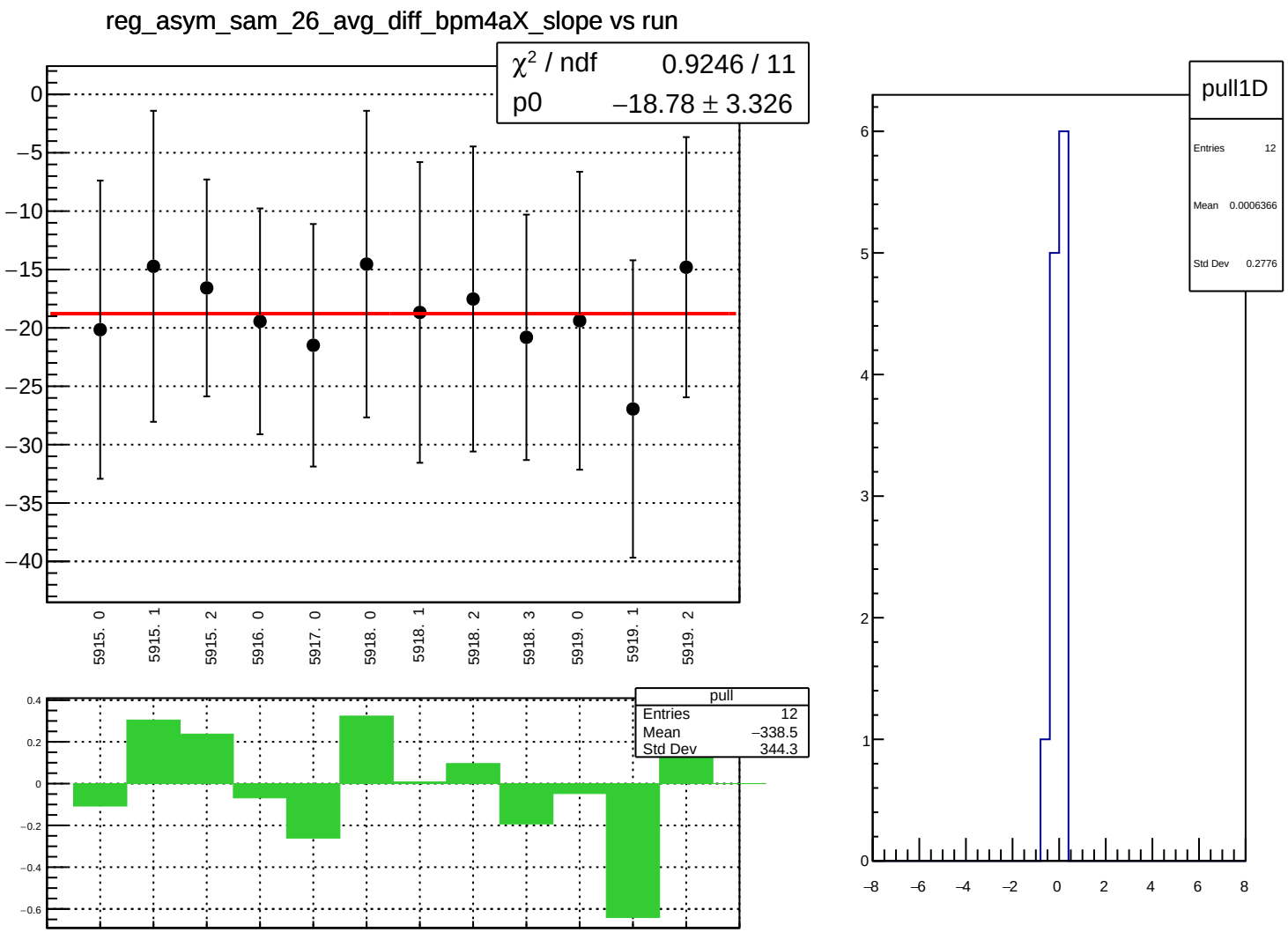

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.741 / 11
p0 0.9539 ± 1.417
8
6
4
2
0
−2
−4
−6
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 24.04
Std Dev 17.95
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 12
Mean 0.0208
Std Dev 0.2476
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

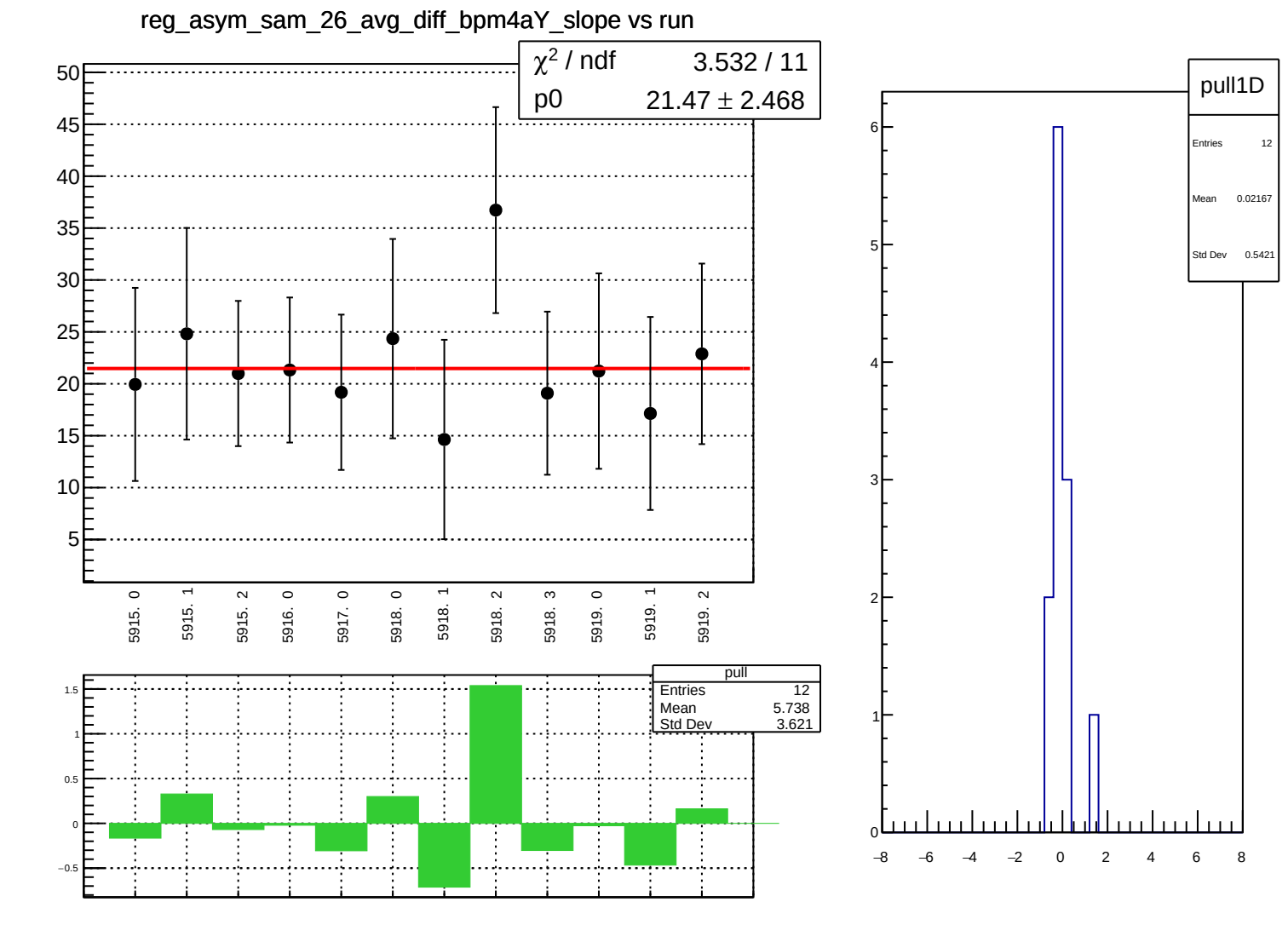

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5981 / 11
p0 11.72 ± 2.391
25
20
15
10
5
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −18.04
Std Dev 26.2
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

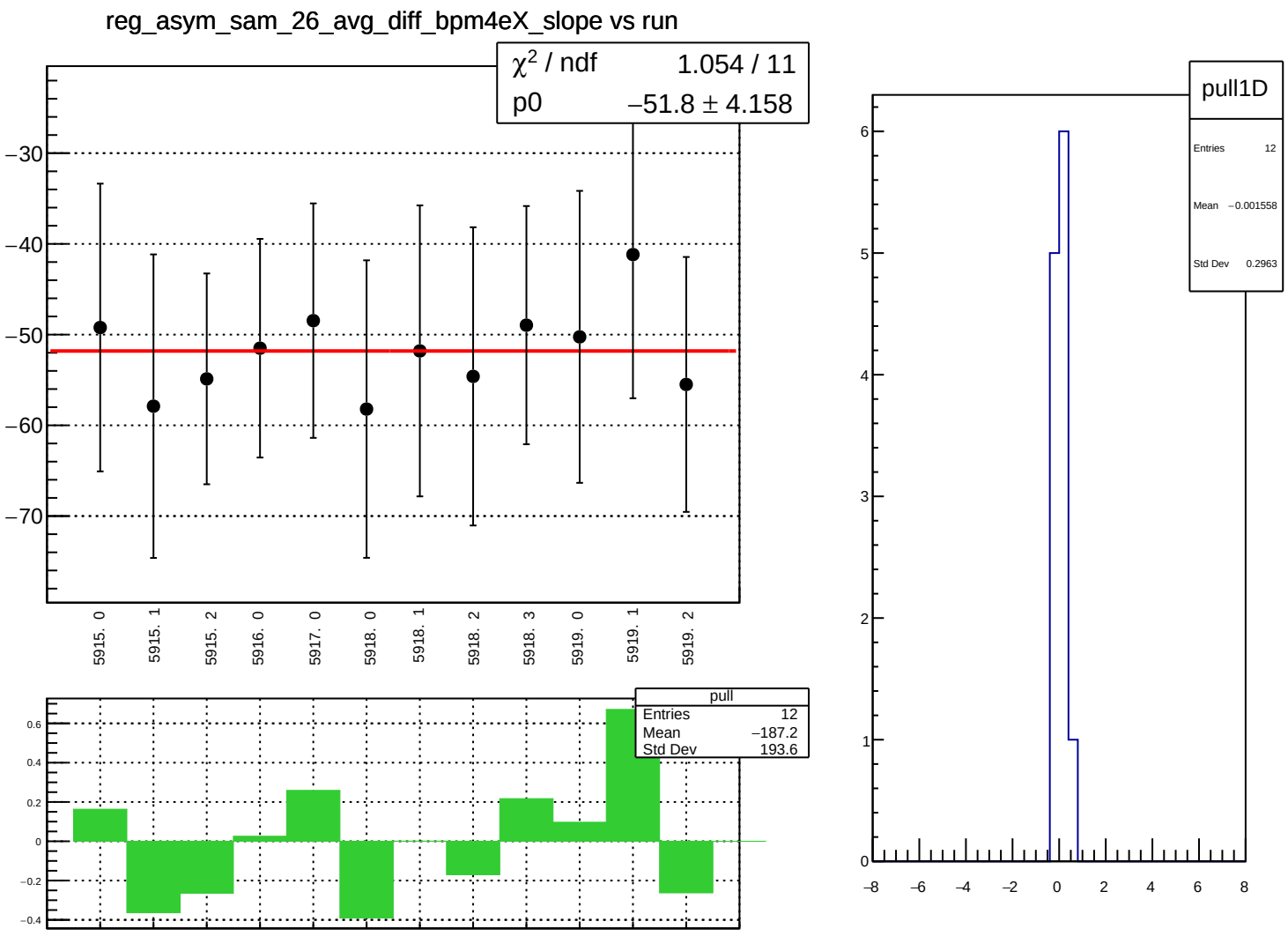

pull1D
Entries 12
Mean −0.006597
Std Dev 0.2232
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

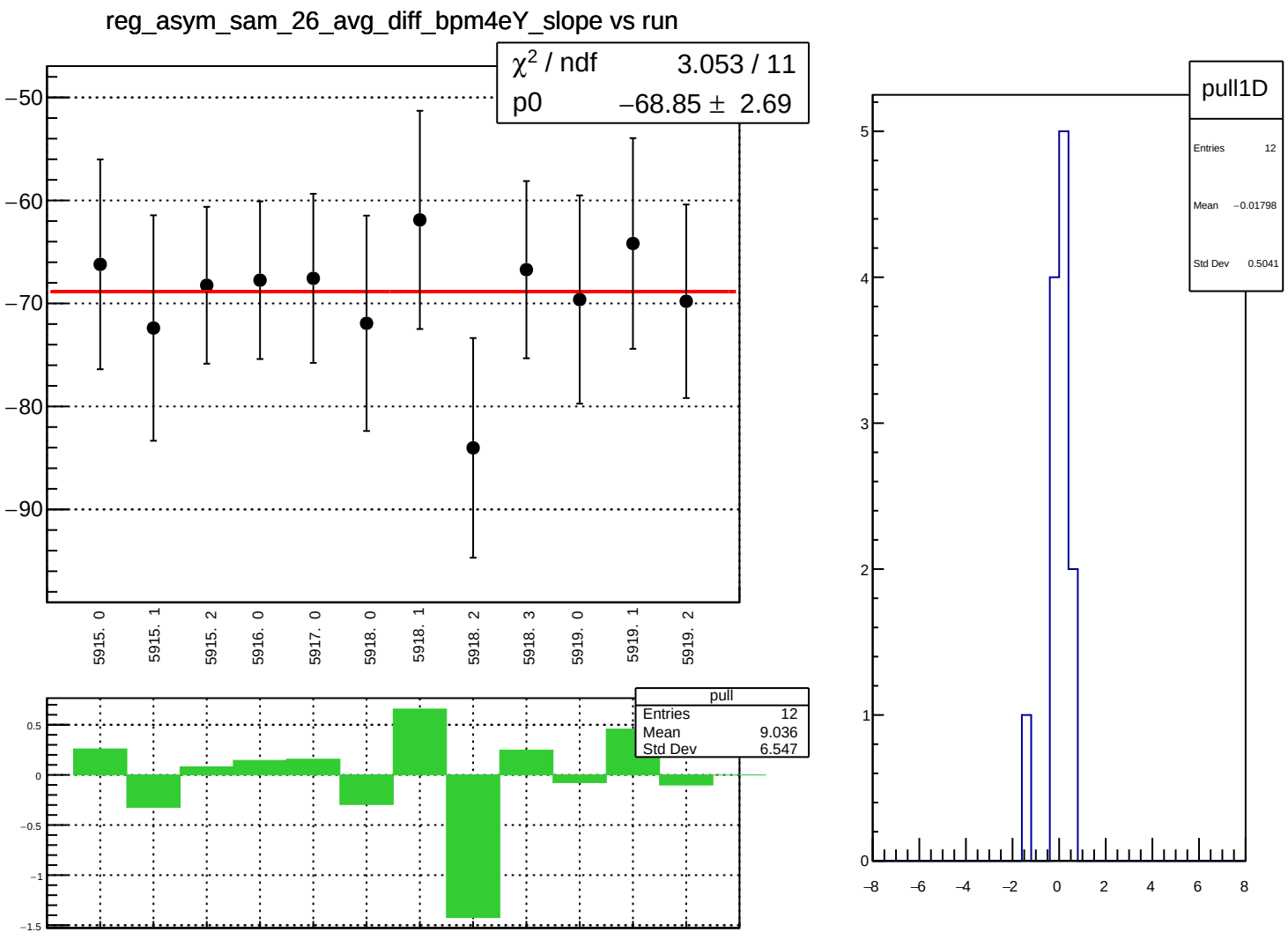

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.802 / 11
p0 14.44 ± 1.546
24
22
20
18
16
14
12
10
8
6
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.09
Std Dev 21.22
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 12
Mean −0.02072
Std Dev 0.2577
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

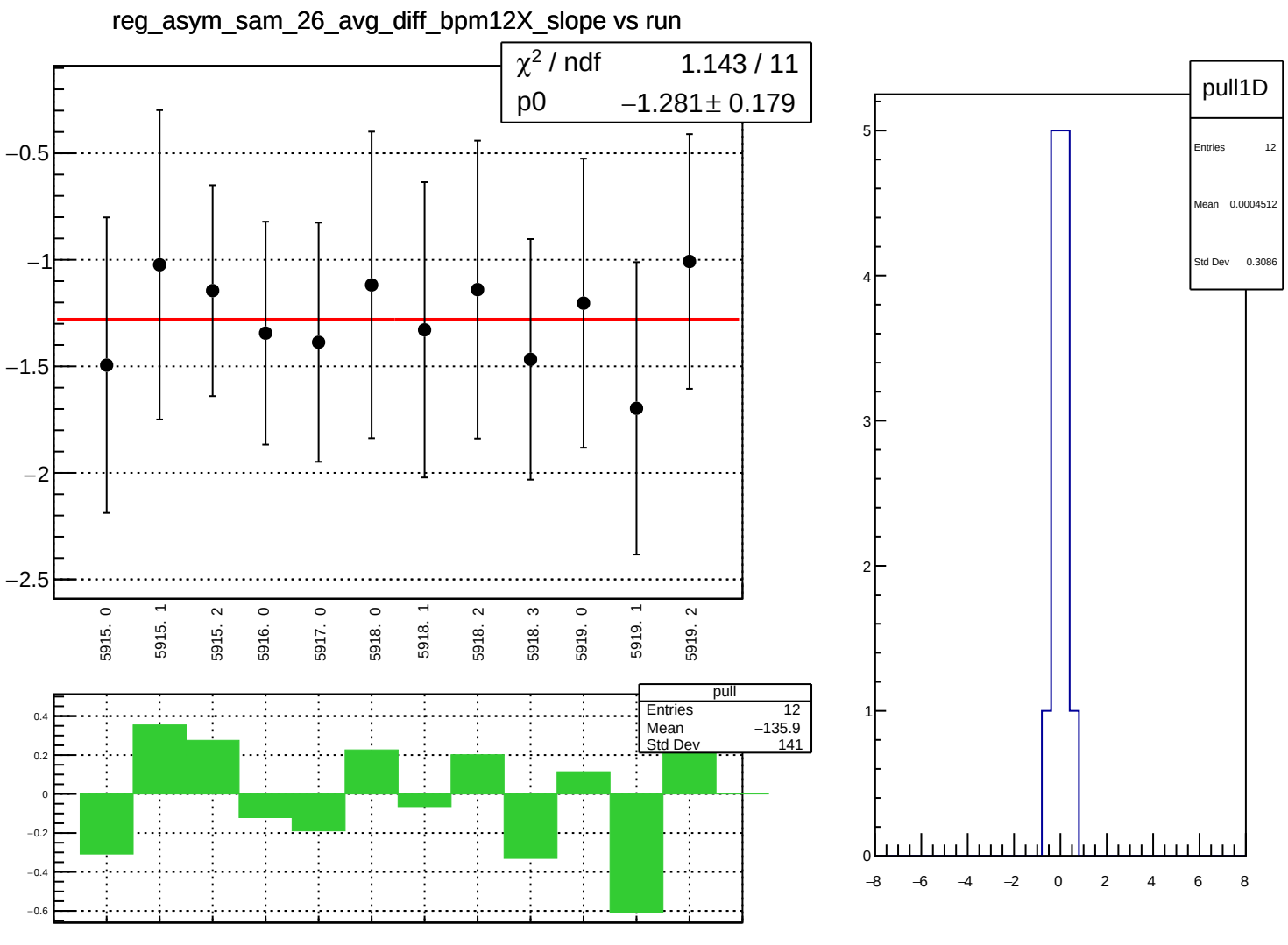

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7656 / 11
p0 0.2058 ± 0.103
0.8
0.6
0.4
0.2
0
−0.2
−0.4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 17.18
Std Dev 6.702
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 12
Mean −0.01377
Std Dev 0.2522
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

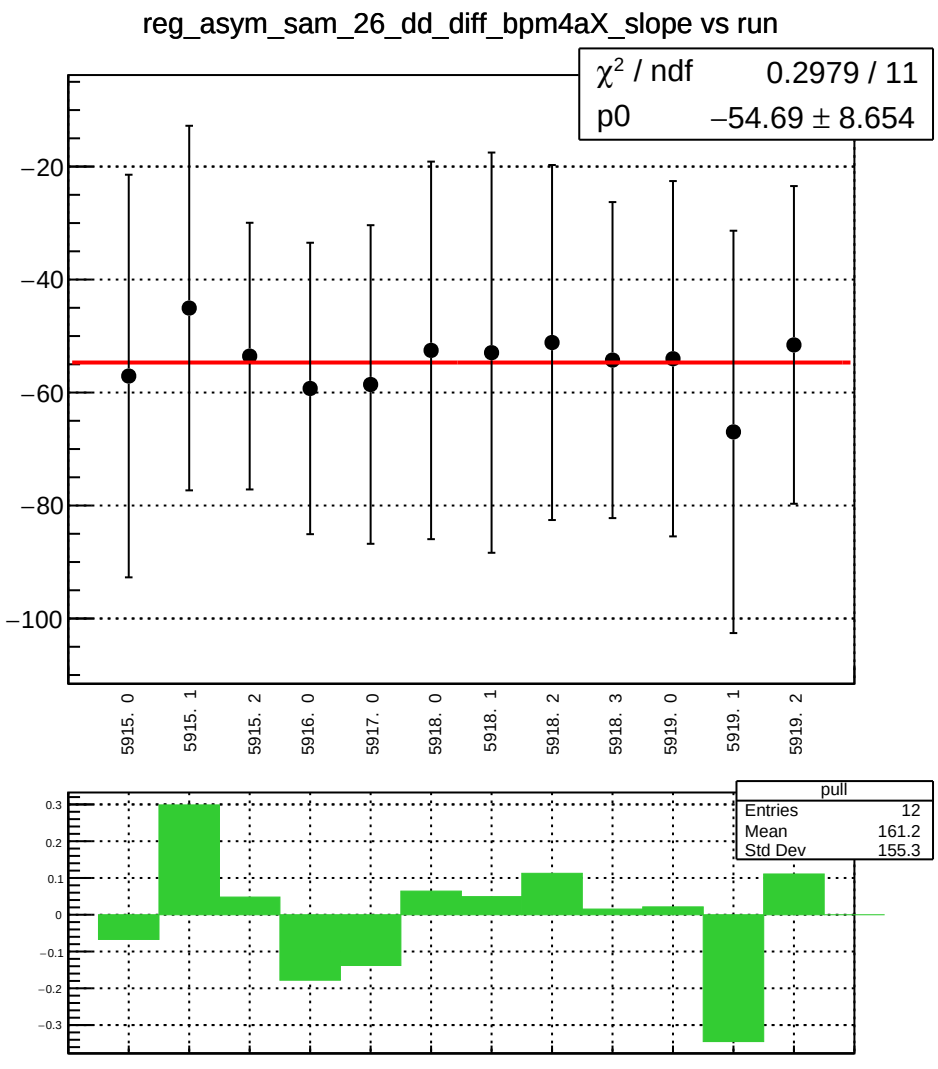

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.9246 / 11
p0 −18.78 ± 3.326
0
−5
−10
−15
−20
−25
−30
−35
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −338.5
Std Dev 344.3
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean 0.0006366
Std Dev 0.2776
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

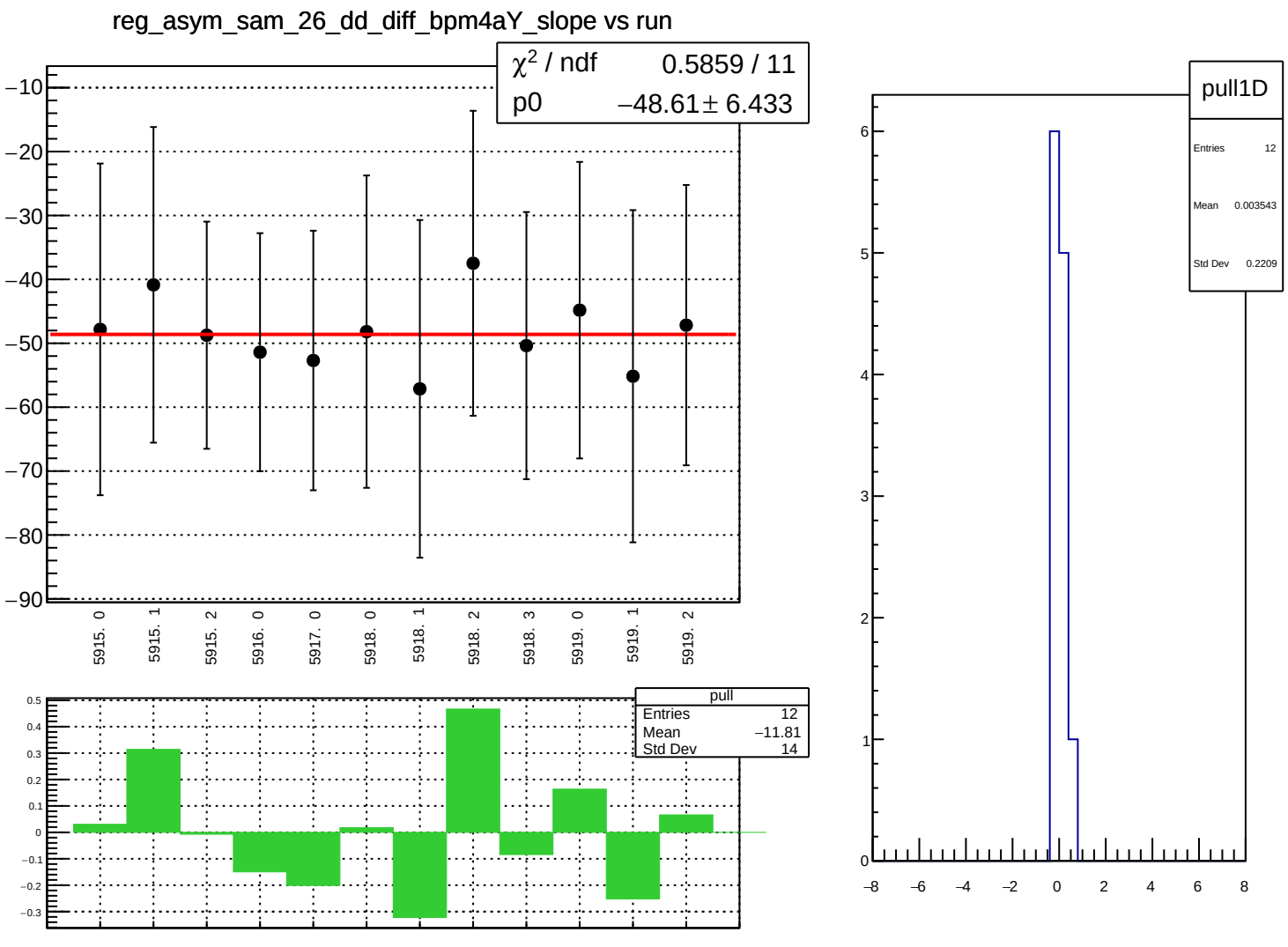

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.532 / 11
p0 21.47 ± 2.468
50
45
40
35
30
25
20
15
10
5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 5.738
Std Dev 3.621
1.5
1
0.5
0
−0.5
pull1D
Entries 12
Mean 0.02167
Std Dev 0.5421
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

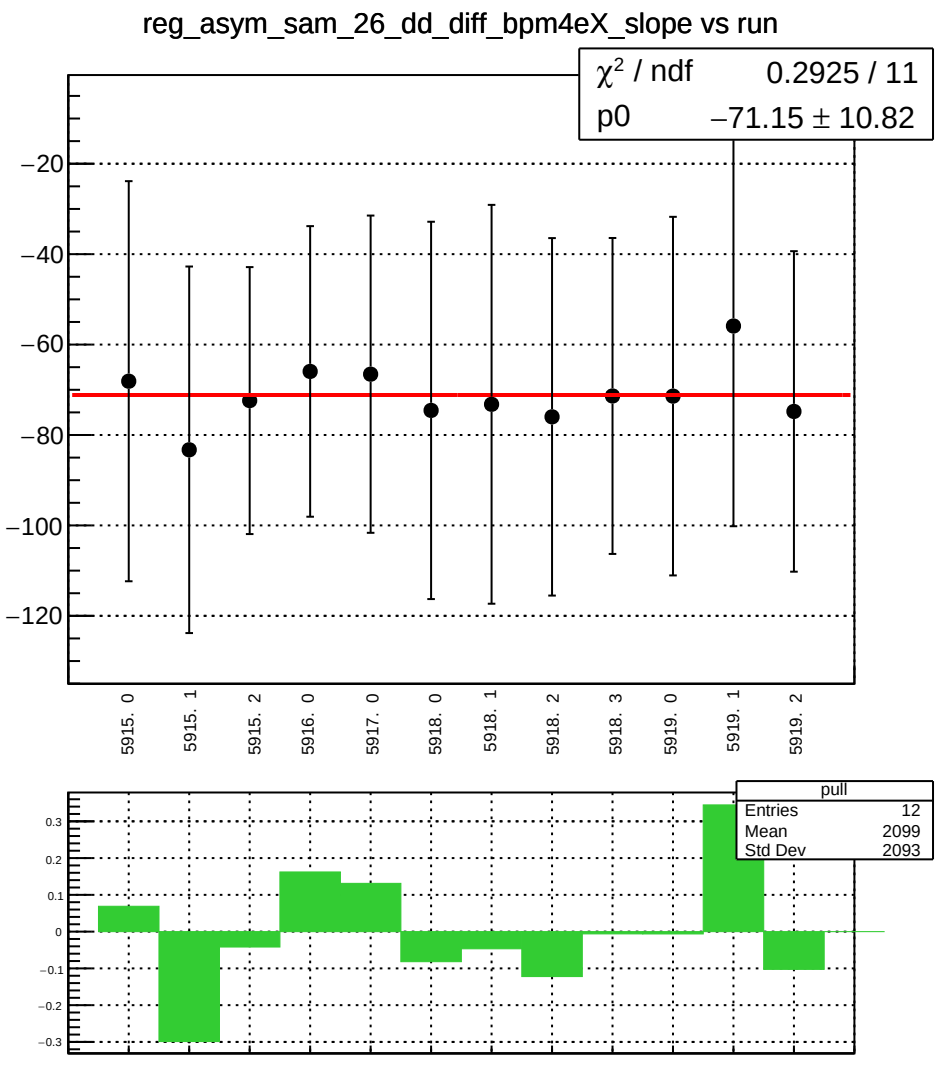

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.054 / 11
p0 −51.8 ± 4.158
−30
−40
−50
−60
−70
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −187.2
Std Dev 193.6
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 12
Mean −0.001558
Std Dev 0.2963
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

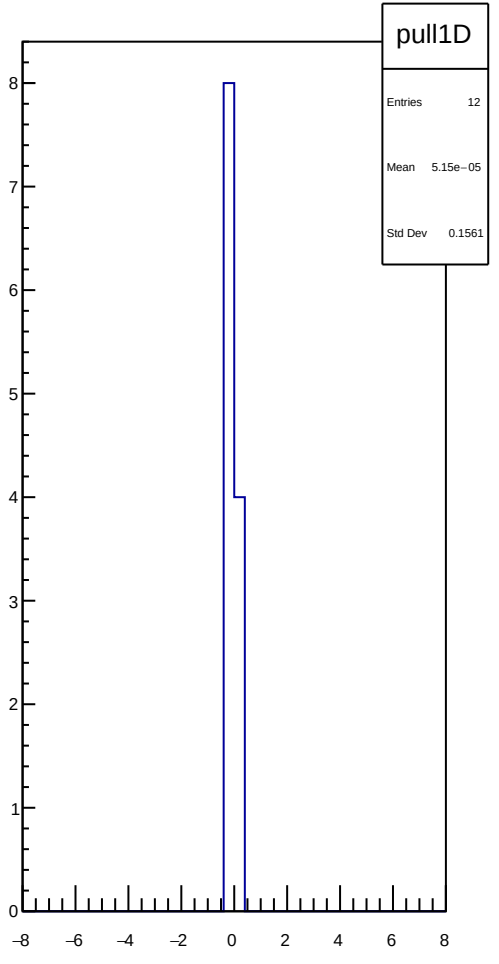

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.053 / 11
p0 −68.85 ± 2.69
−50
−60
−70
−80
−90
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 9.036
Std Dev 6.547
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.01798
Std Dev 0.5041
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

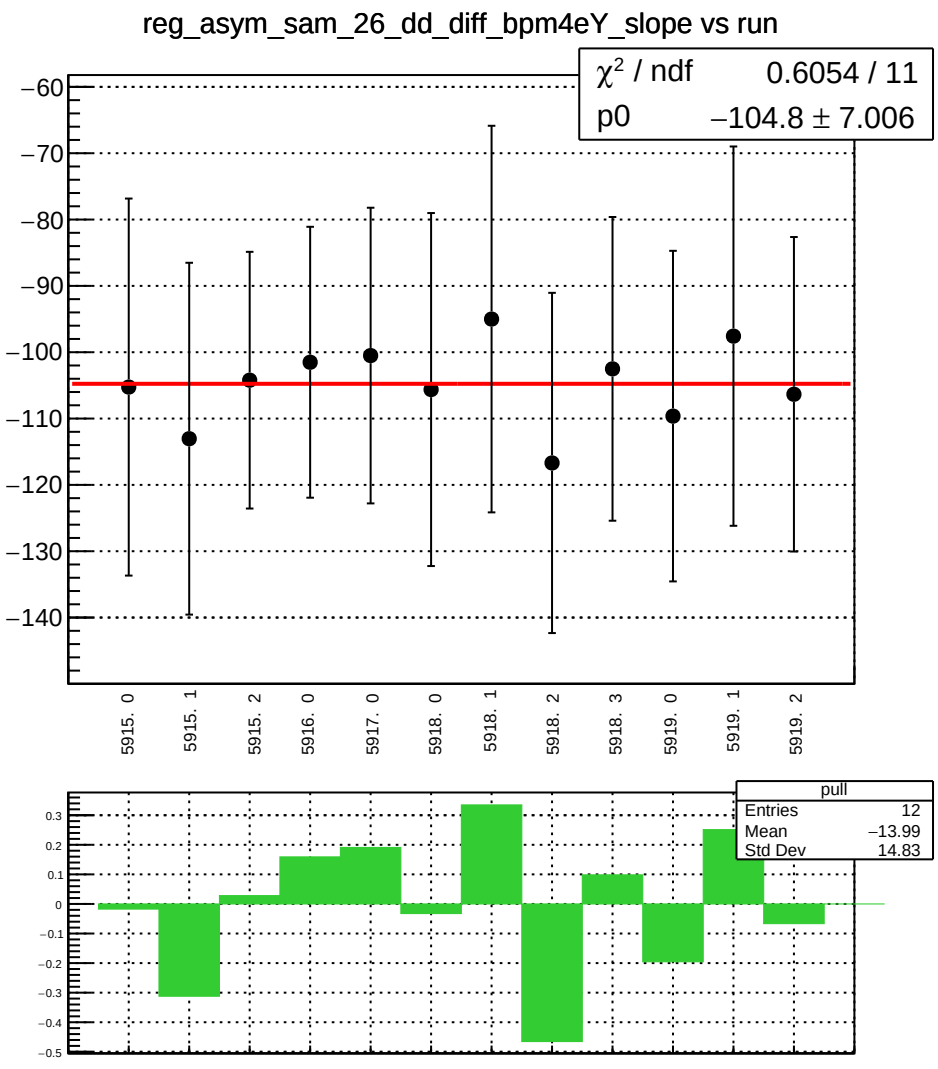

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1.143 / 11
p0 −1.281 ± 0.179
−0.5
−1
−1.5
−2
−2.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −135.9
Std Dev 141
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean 0.0004512
Std Dev 0.3086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

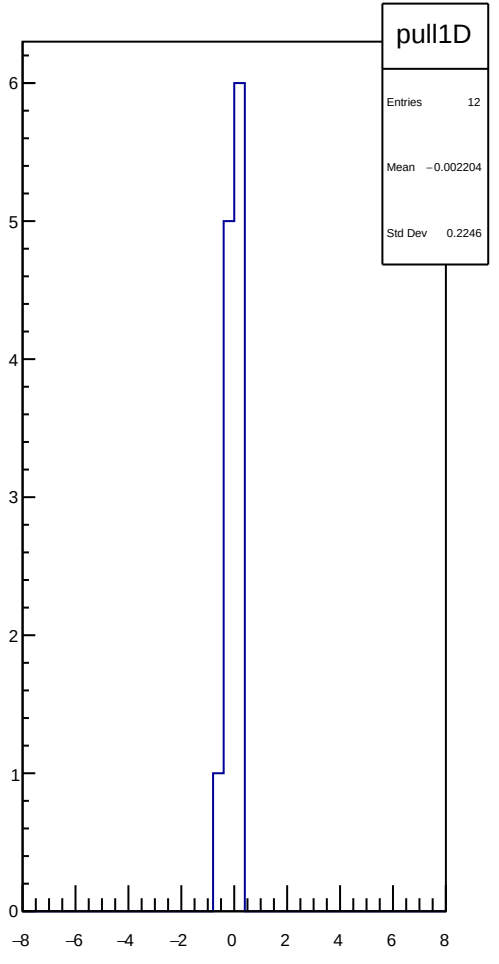

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.2979 / 11
p0 −54.69 ± 8.654
−20
−40
−60
−80
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 161.2
Std Dev 155.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.0006221
Std Dev 0.1576
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

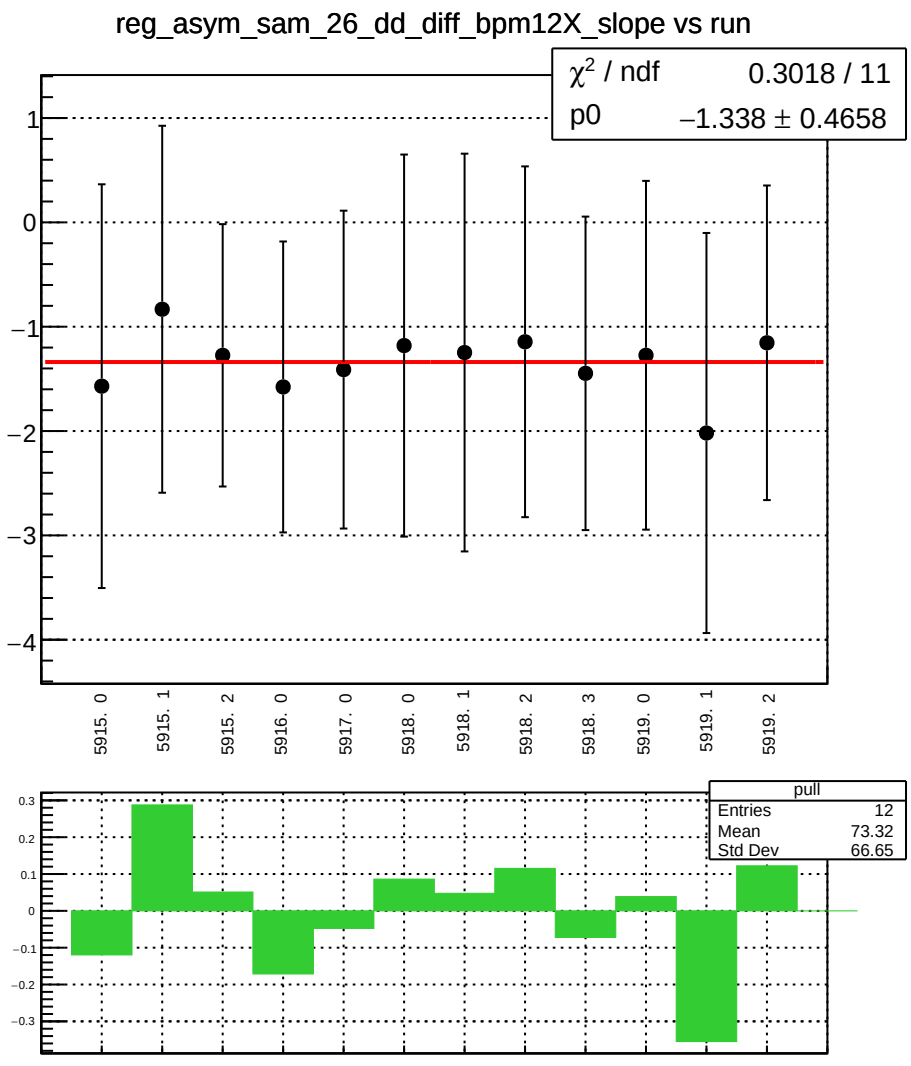

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5859 / 11
p0 −48.61 ± 6.433
−10
−20
−30
−40
−50
−60
−70
−80
−90
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −11.81
Std Dev 14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.003543
Std Dev 0.2209
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

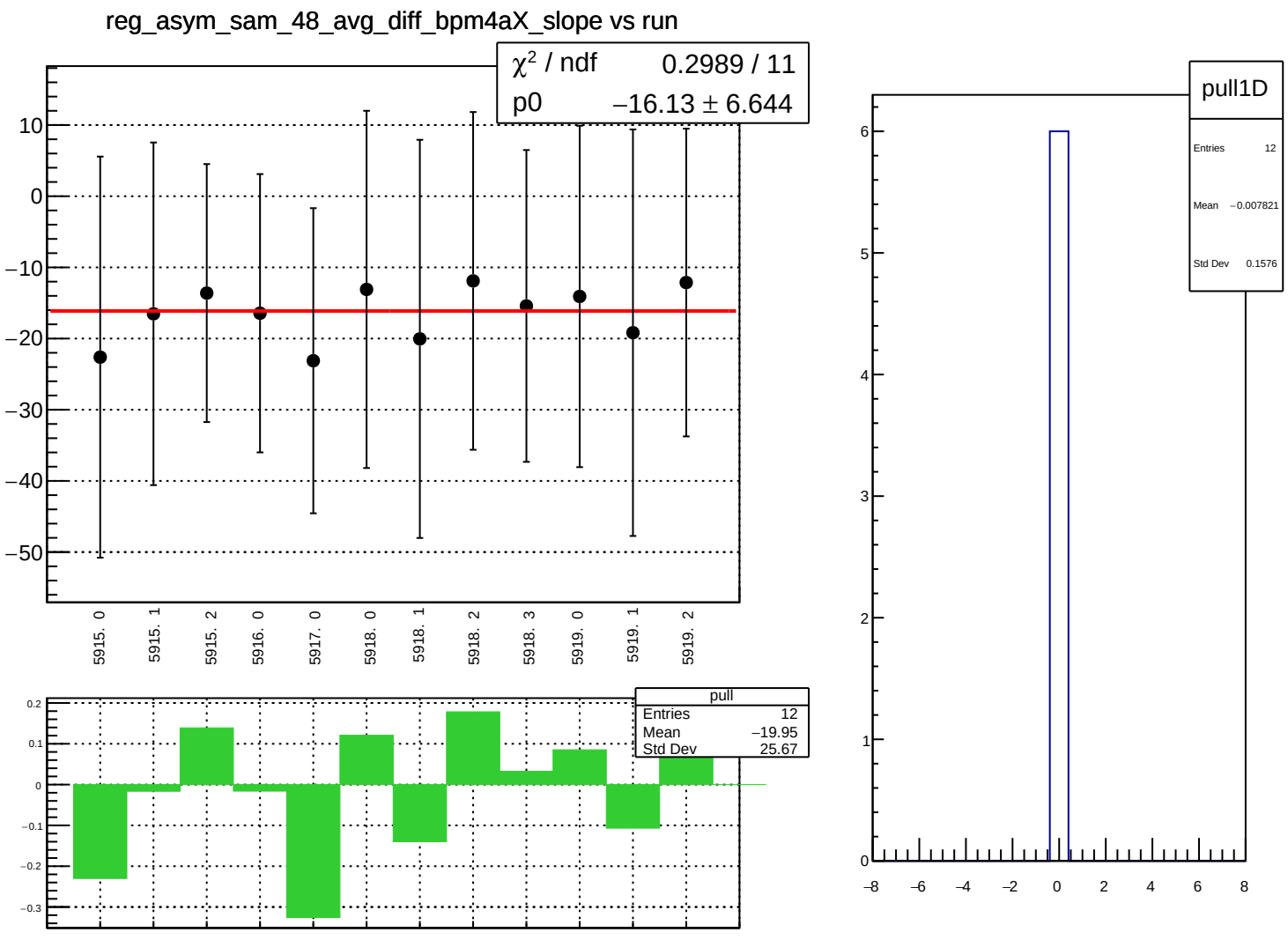

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.2925 / 11
p0 −71.15 ± 10.82
−20
−40
−60
−80
−100
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 2099
Std Dev 2093
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

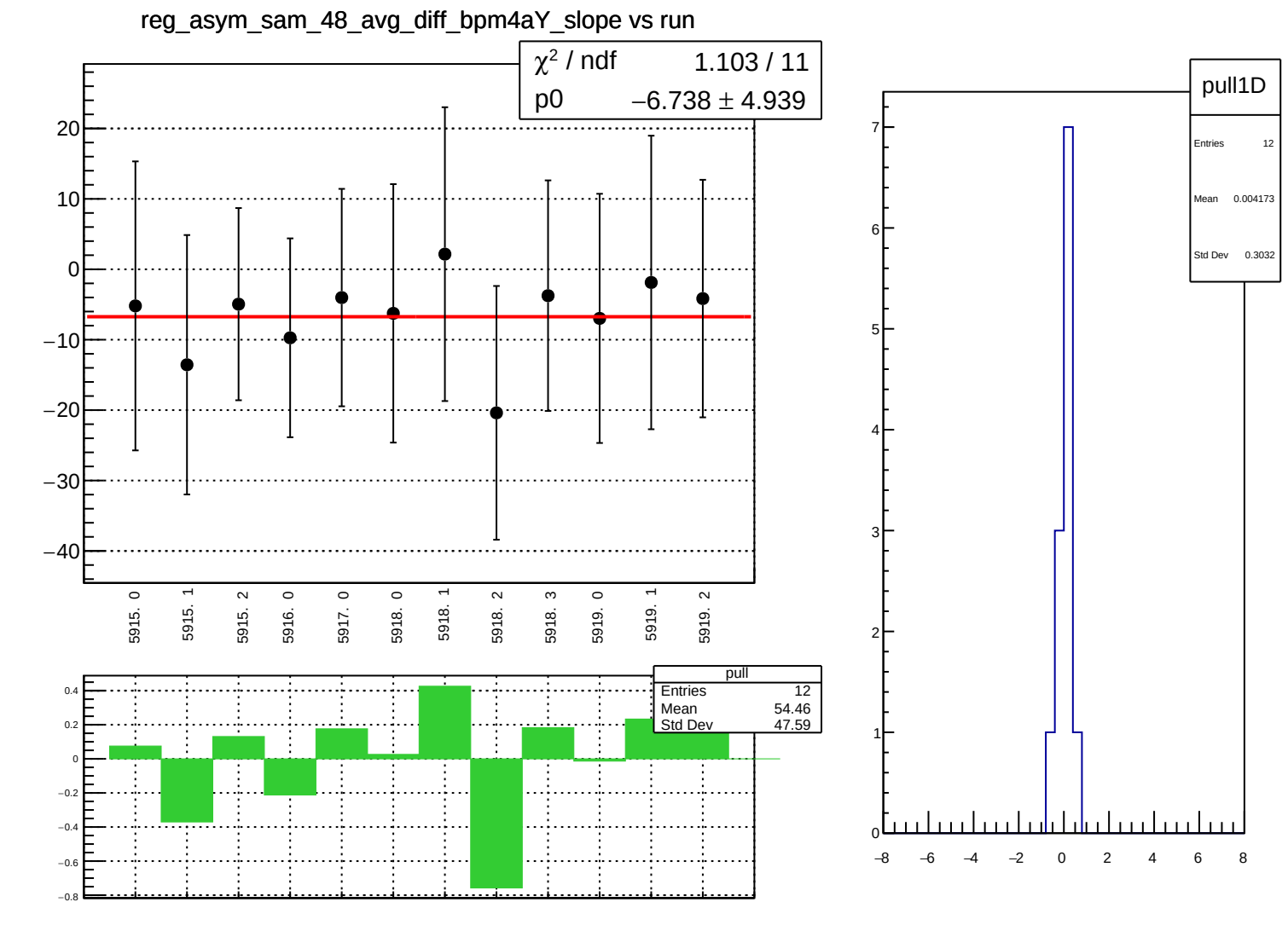

pull1D
Entries 12
Mean 5.15e−05
Std Dev 0.1561
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

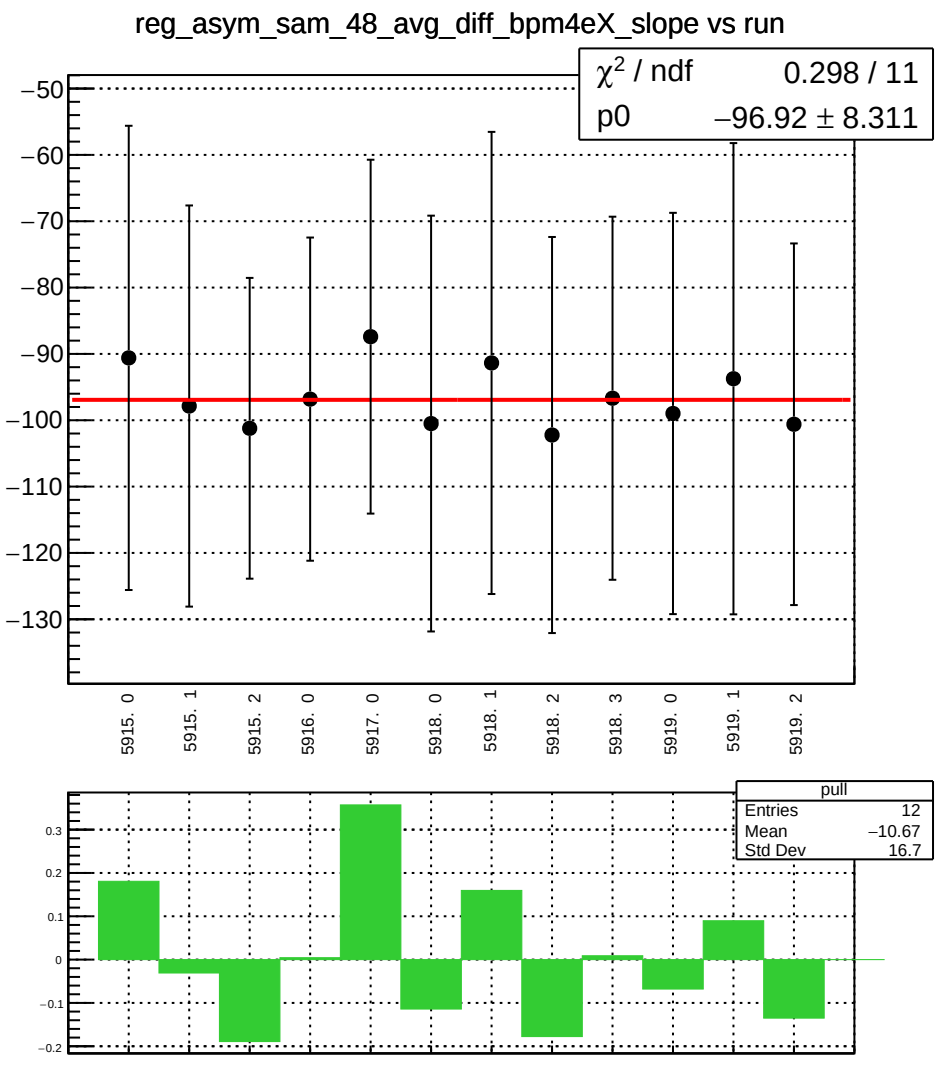

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6054 / 11
p0 −104.8 ± 7.006
−60
−70
−80
−90
−100
−110
−120
−130
−140
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −13.99
Std Dev 14.83
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

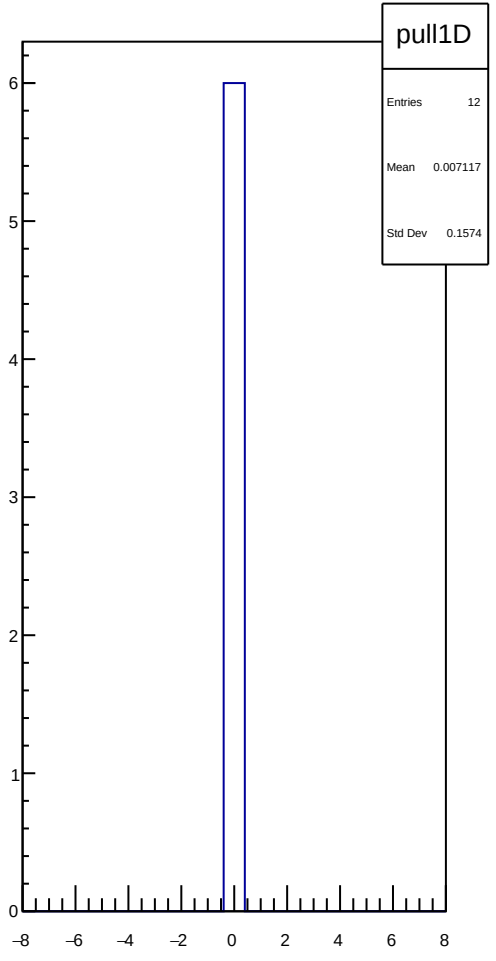

pull1D
Entries 12
Mean −0.002204
Std Dev 0.2246
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

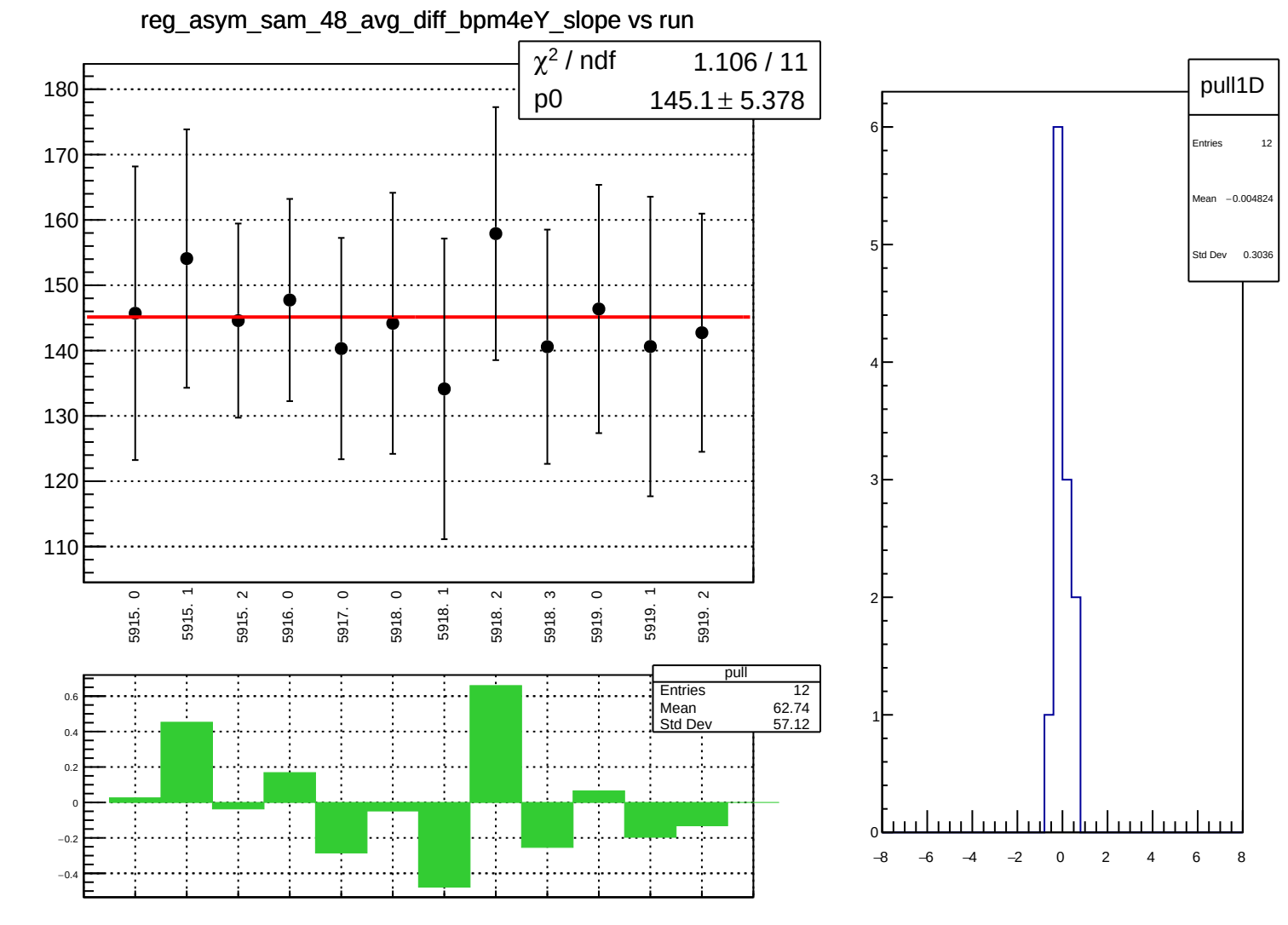

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.3018 / 11
p0 −1.338 ± 0.4658
1
0
−1
−2
−3
−4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 73.32
Std Dev 66.65
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.0014
Std Dev 0.1586
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

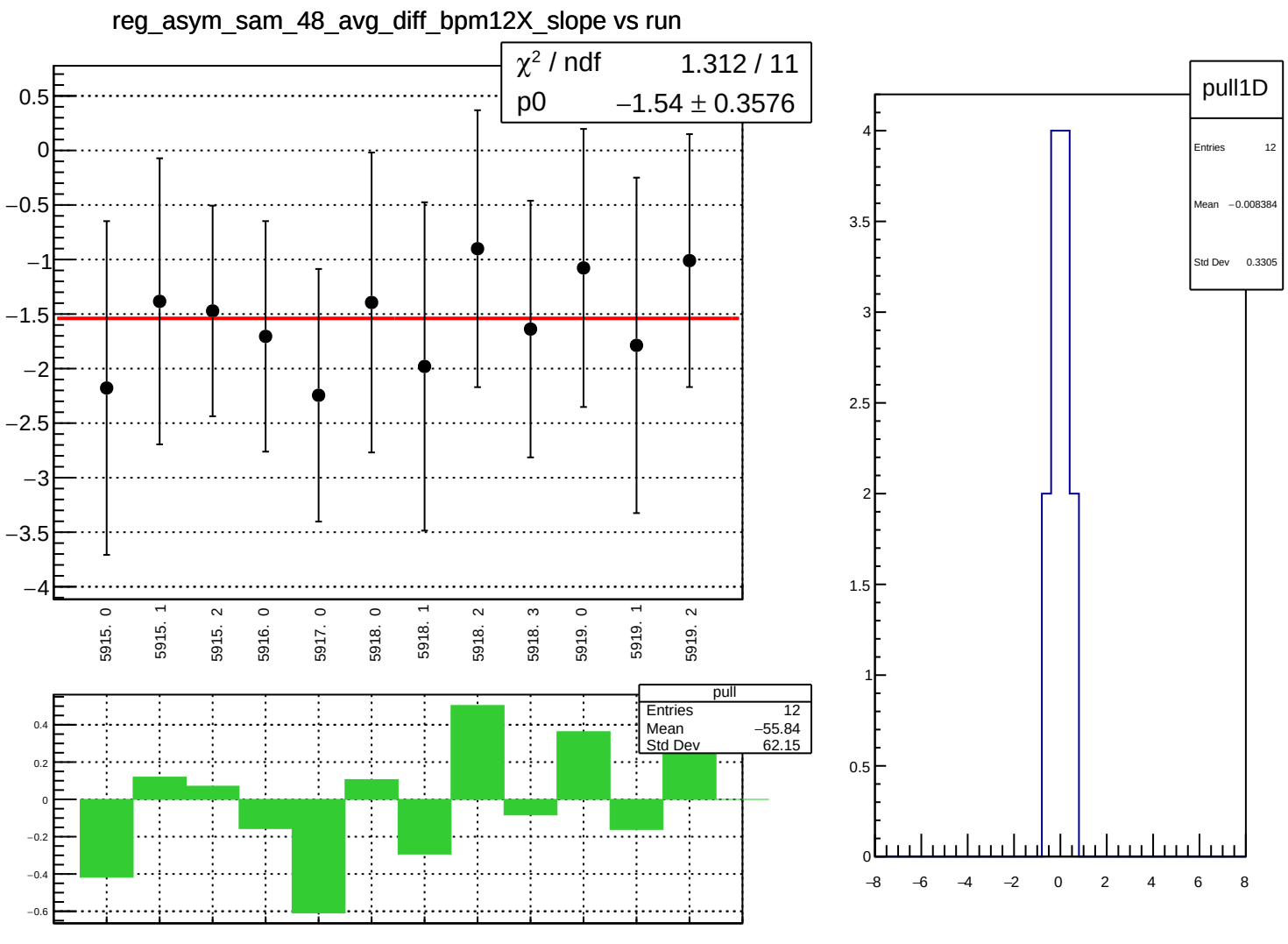

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.2989 / 11
p0 −16.13 ± 6.644
10
0
−10
−20
−30
−40
−50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −19.95
Std Dev 25.67
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.007821
Std Dev 0.1576
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

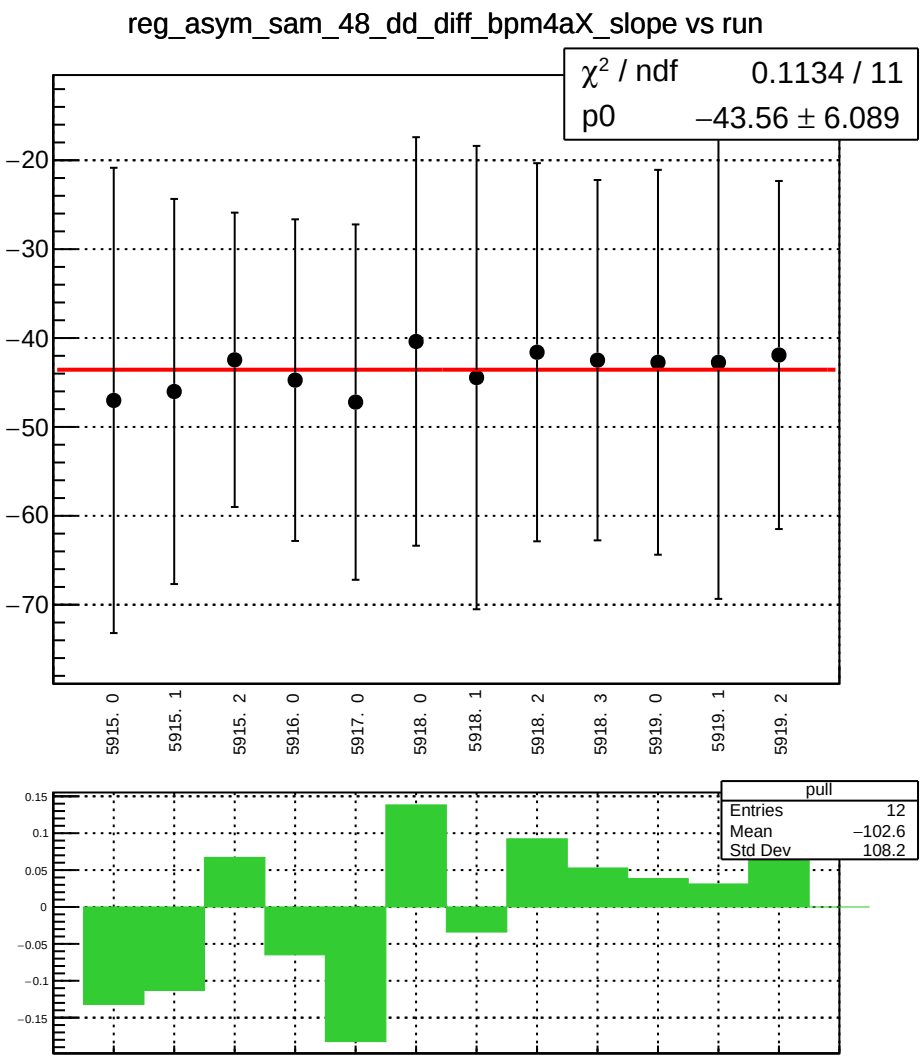

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.103 / 11
p0 −6.738 ± 4.939
20
10
0
−10
−20
−30
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 54.46
Std Dev 47.59
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean 0.004173
Std Dev 0.3032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

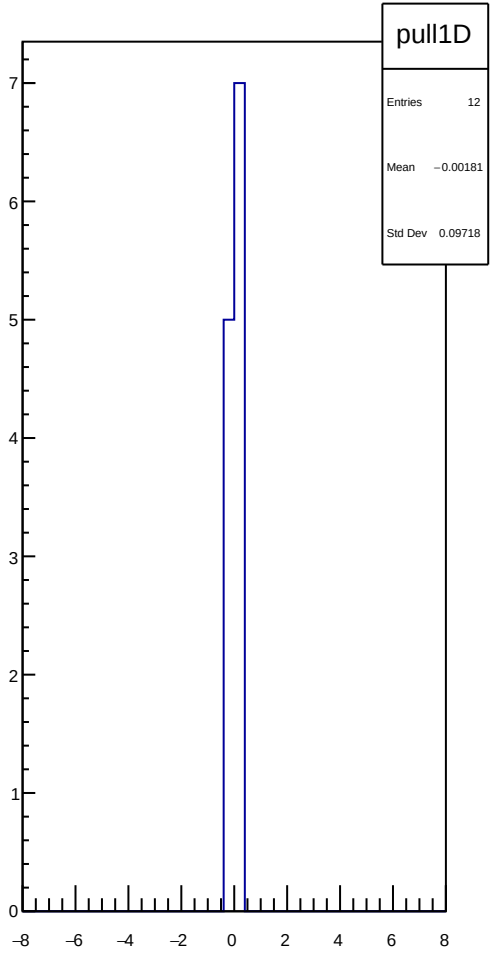

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.298 / 11
p0 −96.92 ± 8.311
−50
−60
−70
−80
−90
−100
−110
−120
−130
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −10.67
Std Dev 16.7
0.3
0.2
0.1
0
−0.1
−0.2

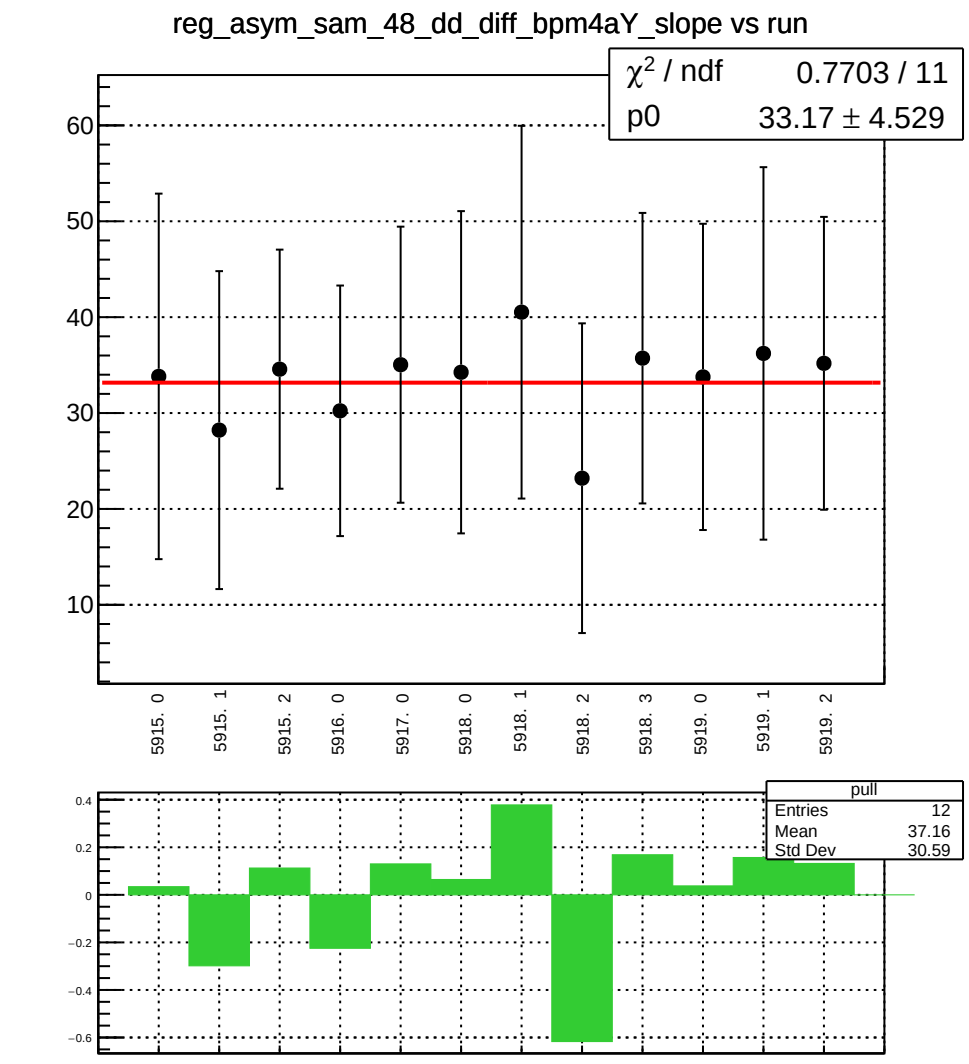

pull1D
Entries 12
Mean 0.007117
Std Dev 0.1574
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

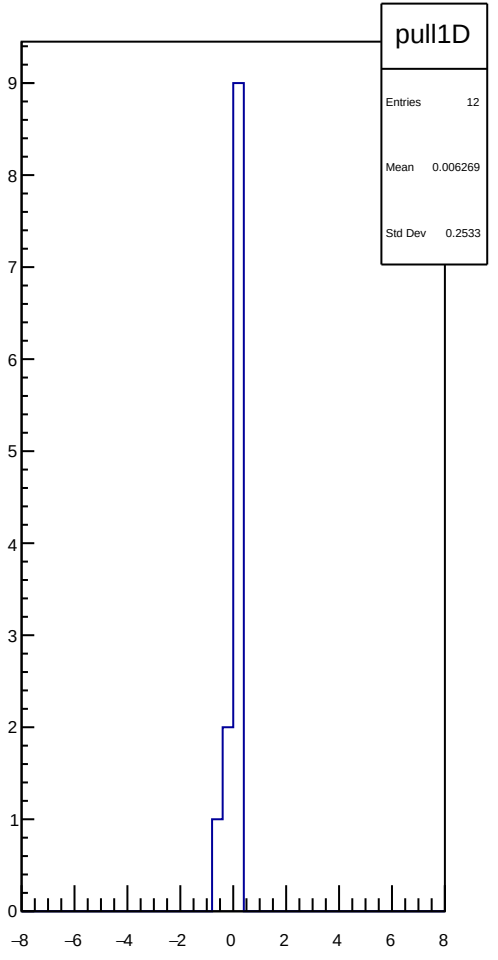

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.106 / 11
p0 145.1 ± 5.378
180
170
160
150
140
130
120
110
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 62.74
Std Dev 57.12
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 12
Mean −0.004824
Std Dev 0.3036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

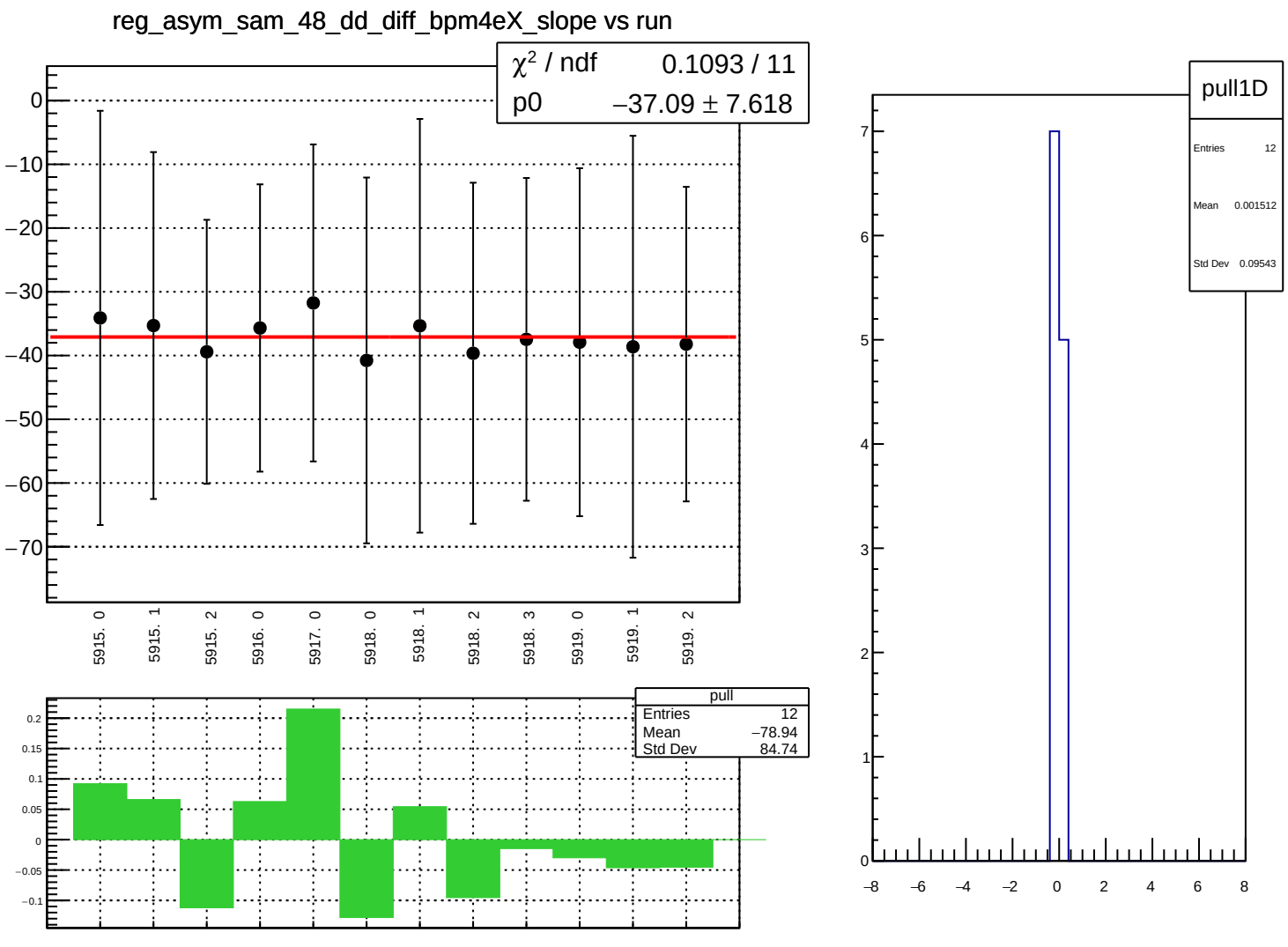

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.312 / 11
p0 −1.54 ± 0.3576
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −55.84
Std Dev 62.15
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.008384
Std Dev 0.3305
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

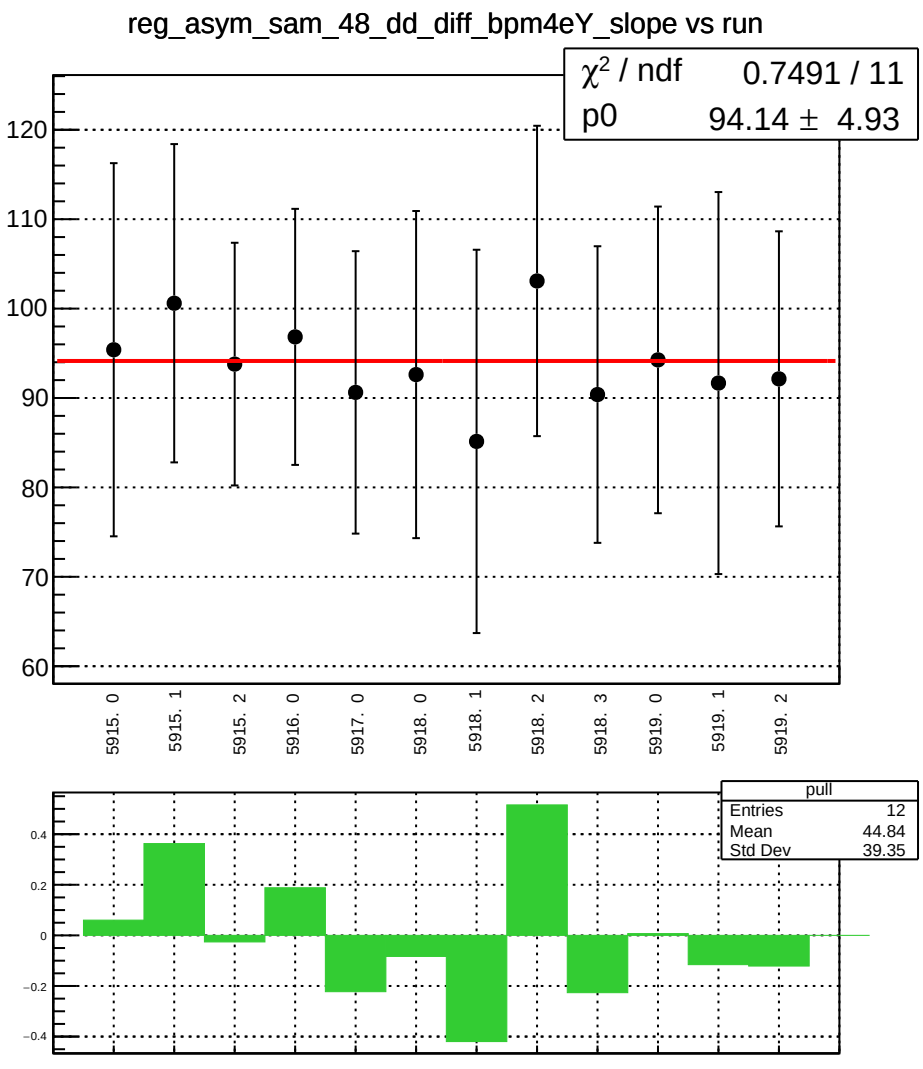

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.1134 / 11
p0 −43.56 ± 6.089
−20
−30
−40
−50
−60
−70
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −102.6
Std Dev 108.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

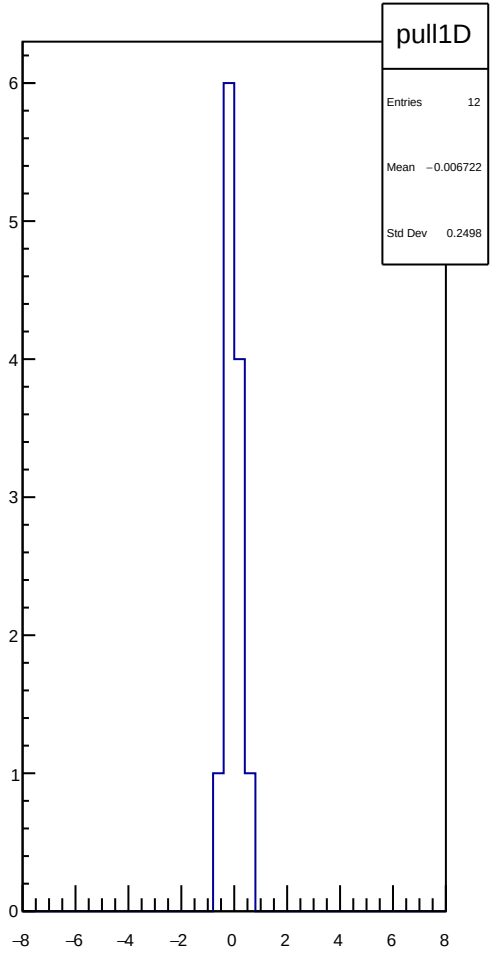

pull1D
Entries 12
Mean −0.00181
Std Dev 0.09718
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

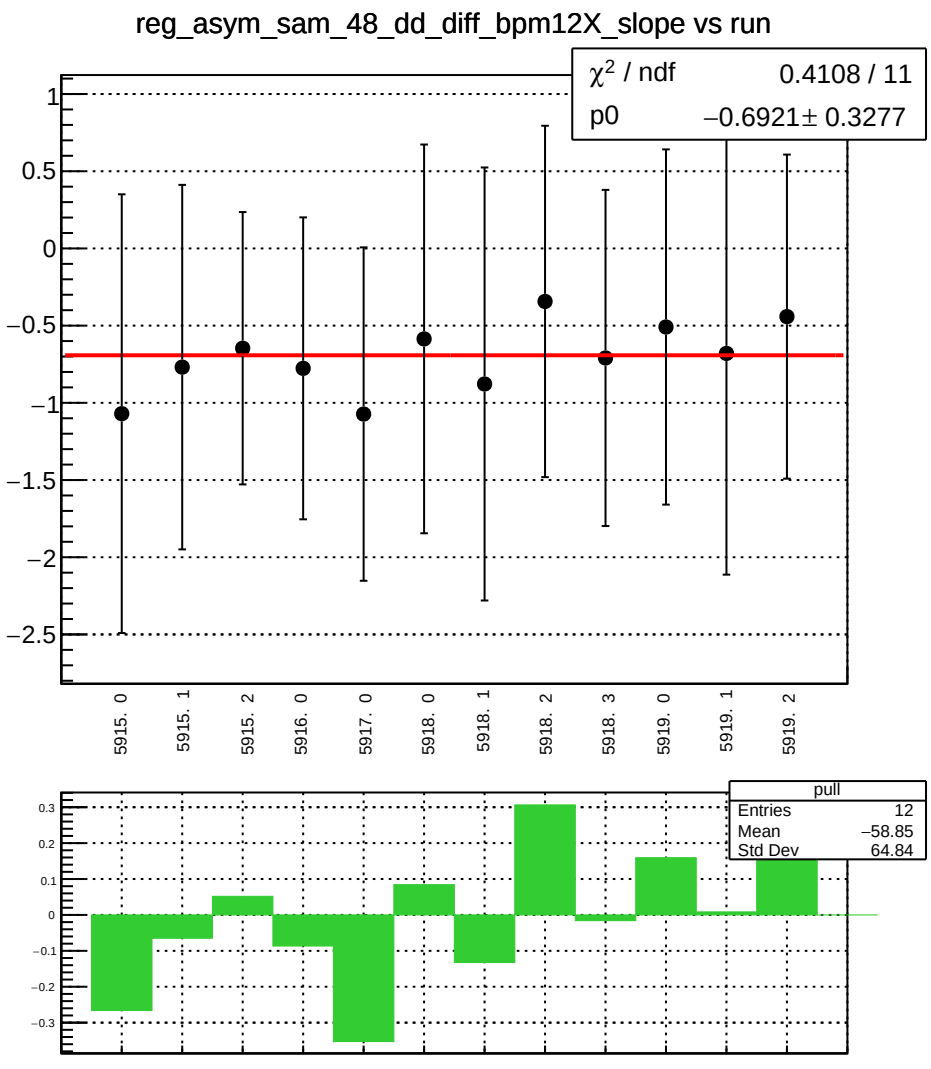

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7703 / 11
p0 33.17 ± 4.529
60
50
40
30
20
10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 37.16
Std Dev 30.59
0.4
0.2
0
−0.2
−0.4
−0.6

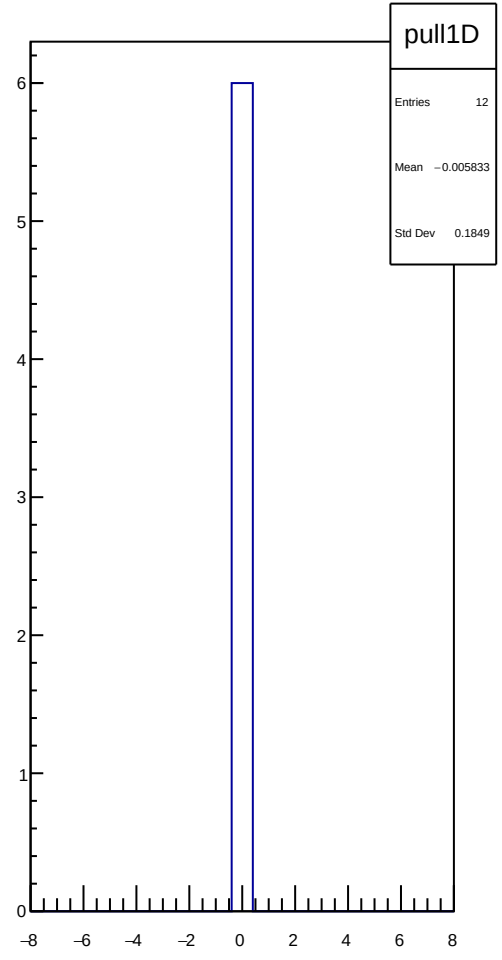

pull1D
Entries 12
Mean 0.006269
Std Dev 0.2533
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

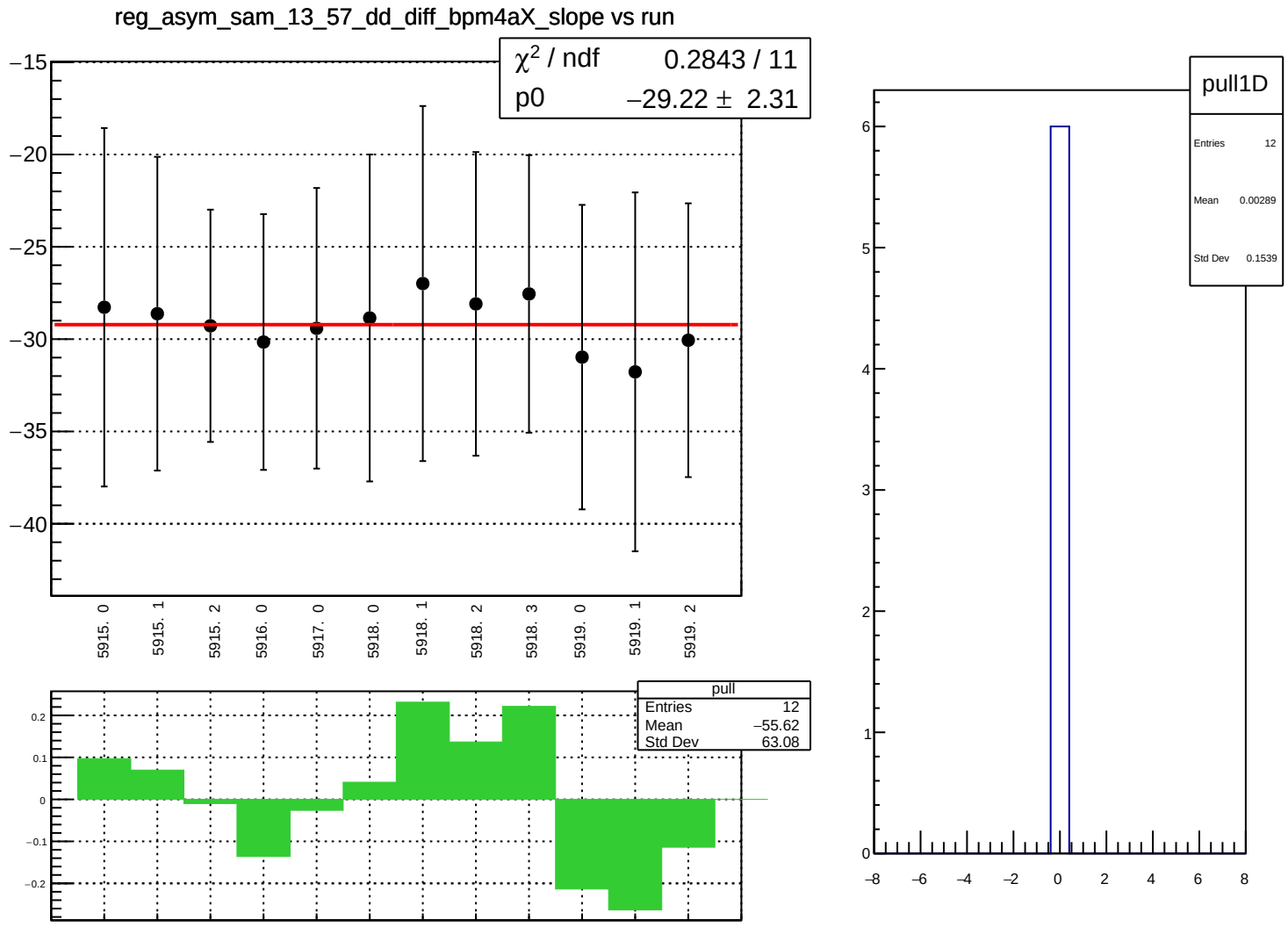

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1093 / 11
p0 −37.09 ± 7.618
0
−10
−20
−30
−40
−50
−60
−70
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −78.94
Std Dev 84.74
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 12
Mean 0.001512
Std Dev 0.09543
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

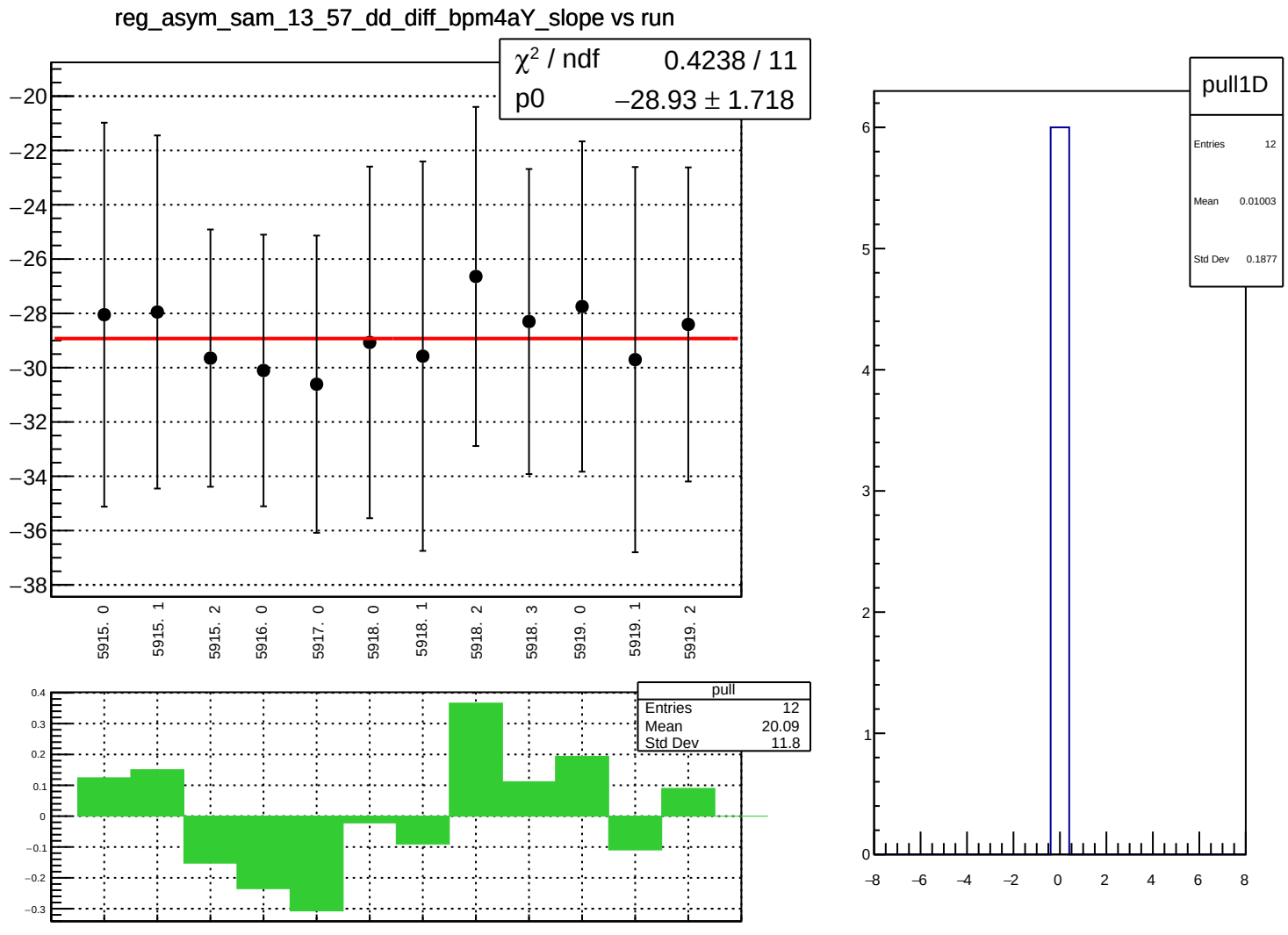

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.7491 / 11
p0 94.14 ± 4.93
120
110
100
90
80
70
60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 44.84
Std Dev 39.35
0.4
0.2
0
−0.2
−0.4

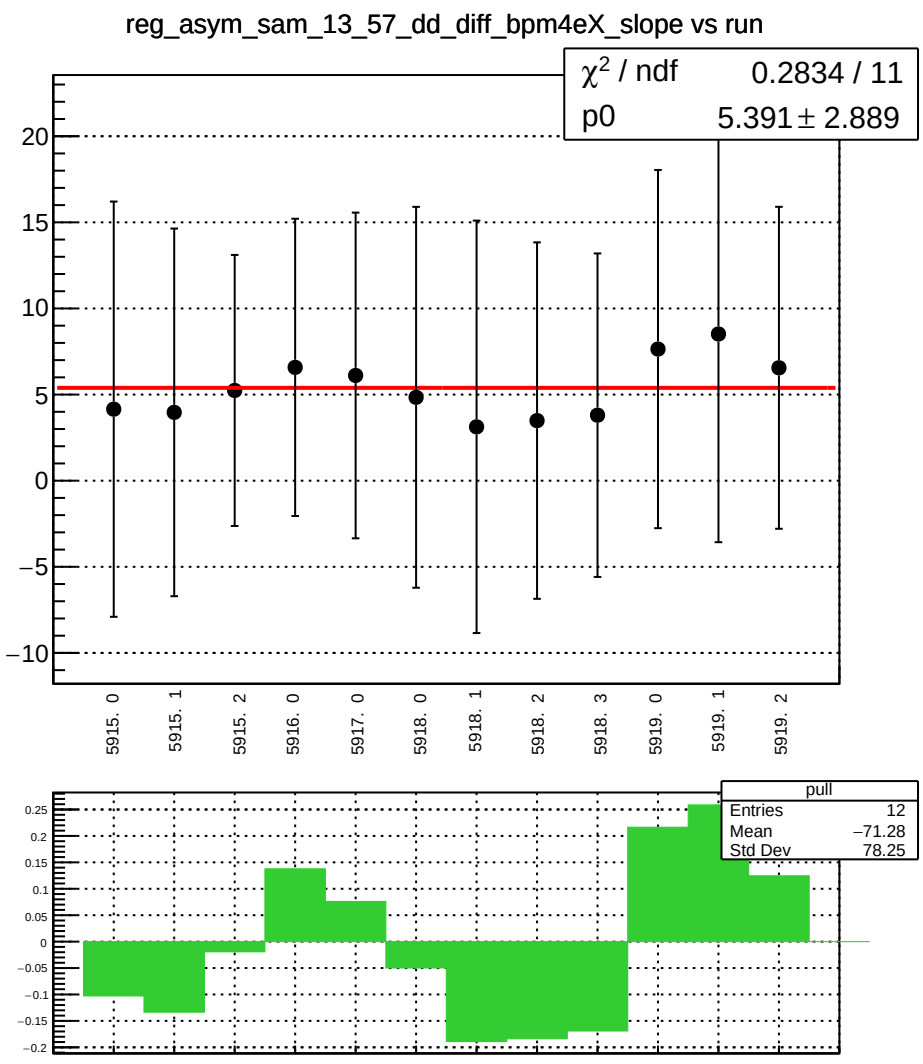

pull1D
Entries 12
Mean −0.006722
Std Dev 0.2498
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

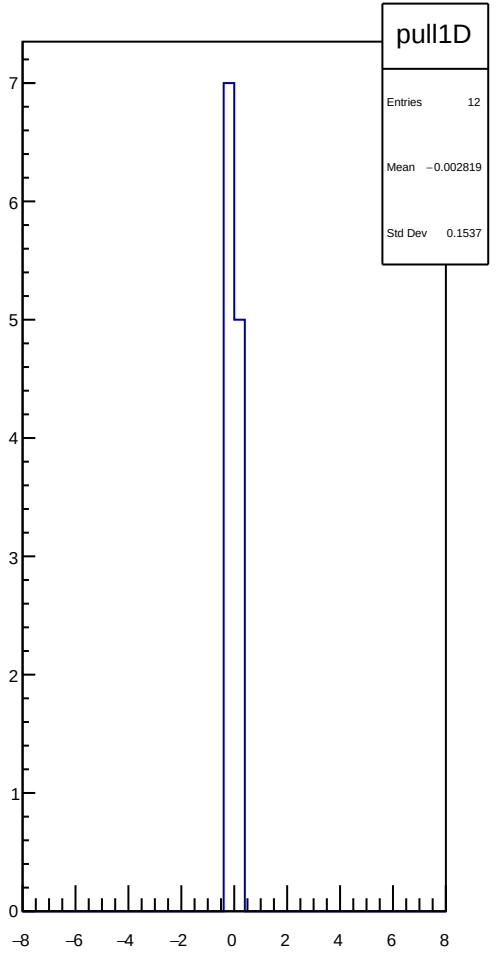

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4108 / 11
p0 −0.6921± 0.3277
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −58.85
Std Dev 64.84
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

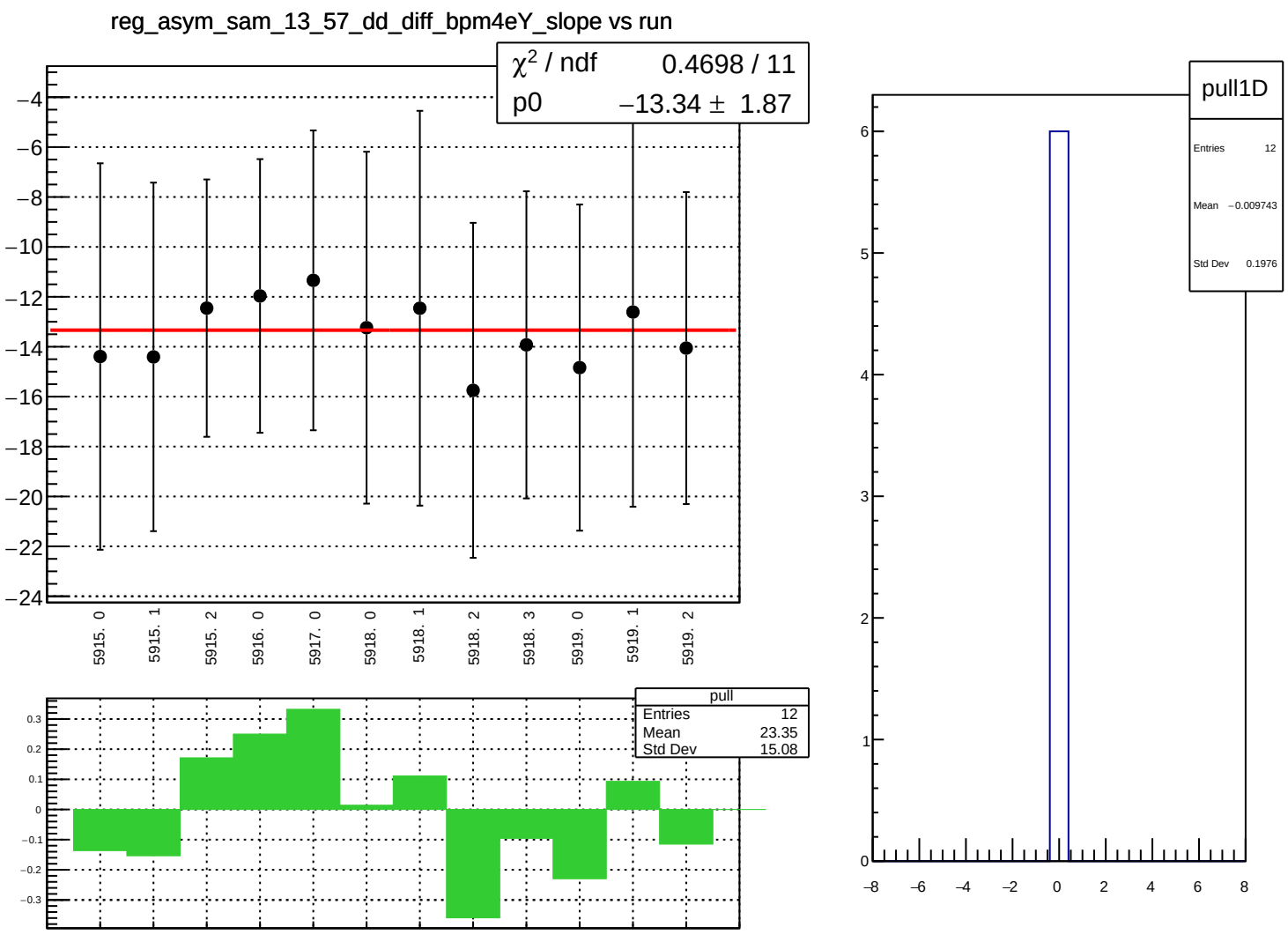

pull1D
Entries 12
Mean −0.005833
Std Dev 0.1849
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

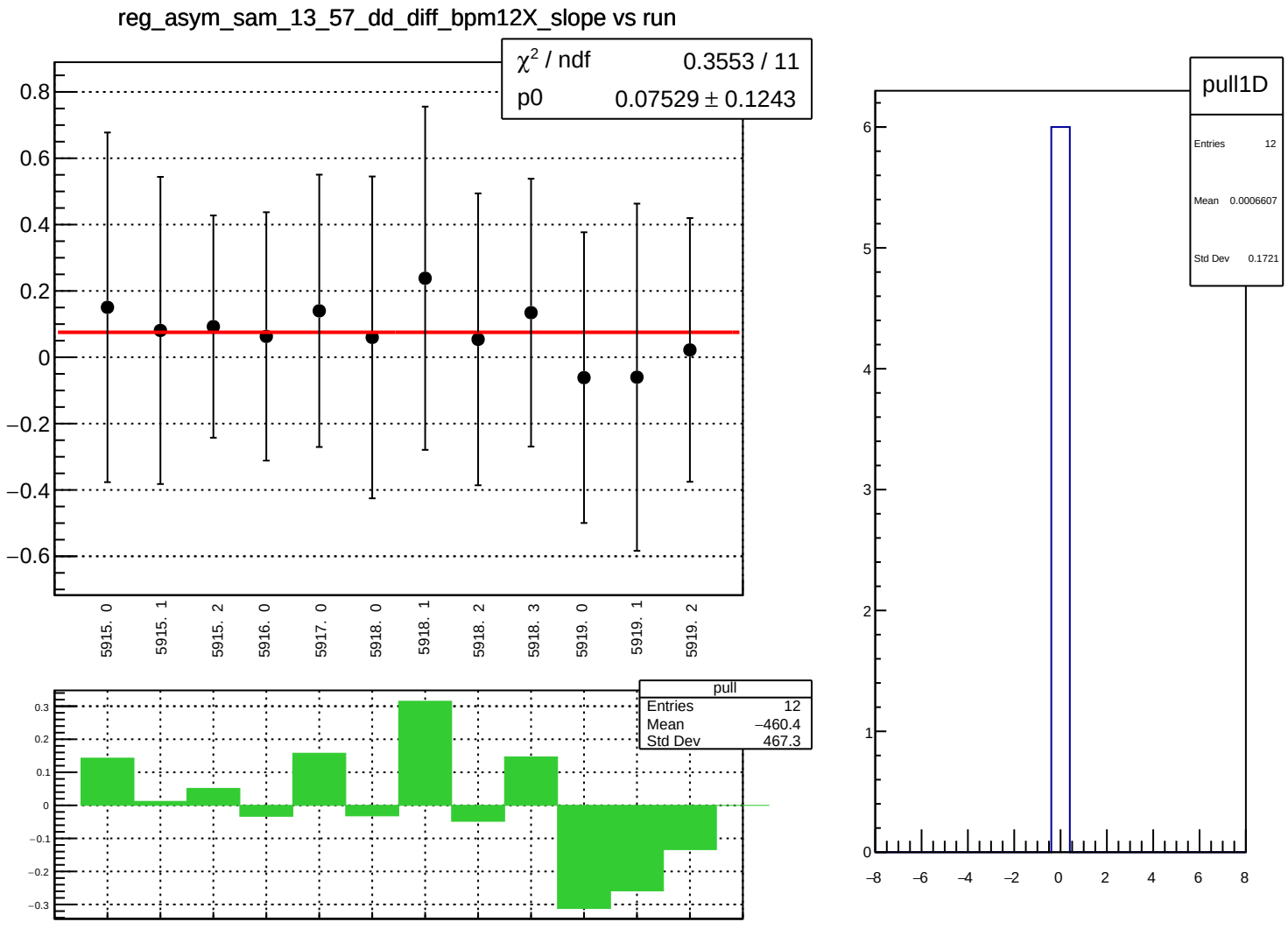

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.2843 / 11
p0 −29.22 ± 2.31
−15
−20
−25
−30
−35
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −55.62
Std Dev 63.08
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 12
Mean 0.00289
Std Dev 0.1539
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

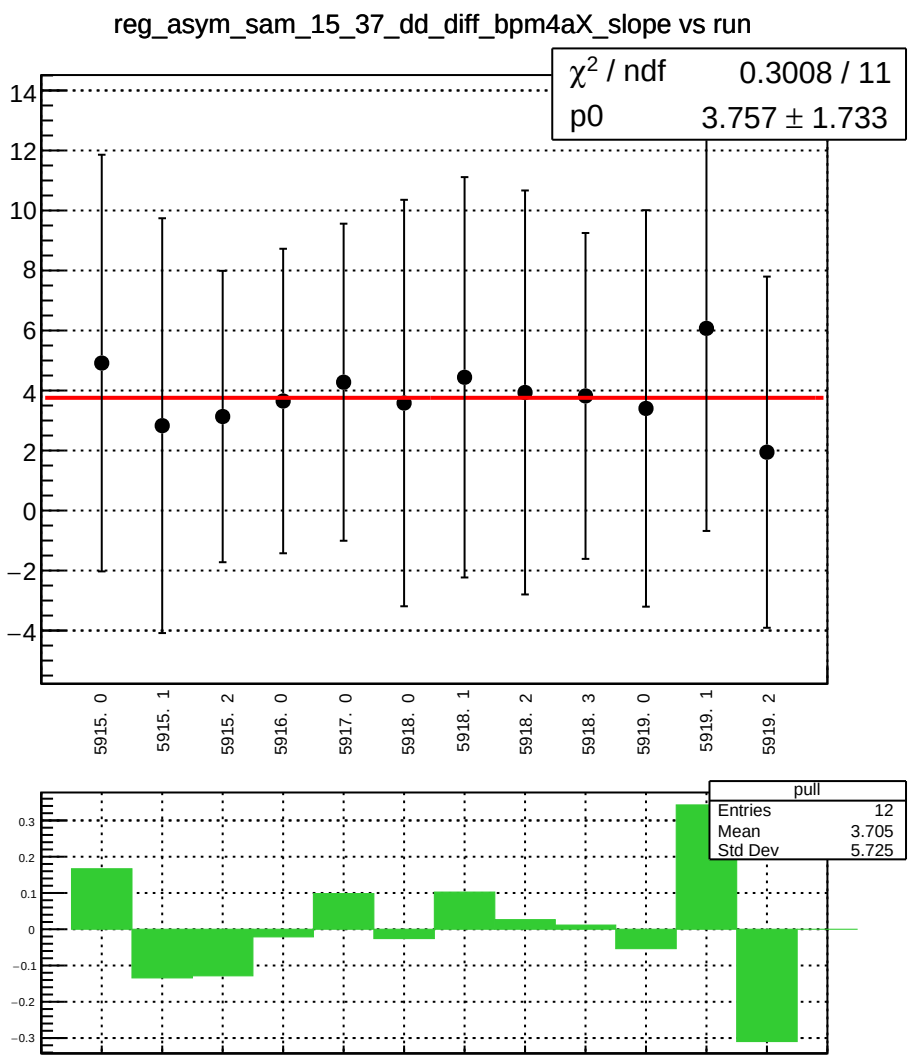

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4238 / 11
p0 −28.93 ± 1.718
−20
−22
−24
−26
−28
−30
−32
−34
−36
−38
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 20.09
Std Dev 11.8
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.01003
Std Dev 0.1877
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

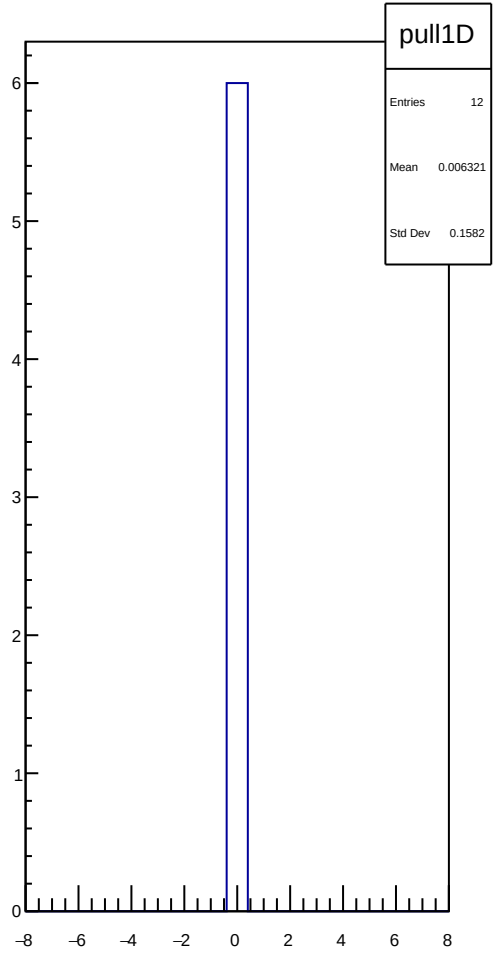

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.2834 / 11
p0 5.391 ± 2.889
20
15
10
5
0
−5
−10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −71.28
Std Dev 78.25
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

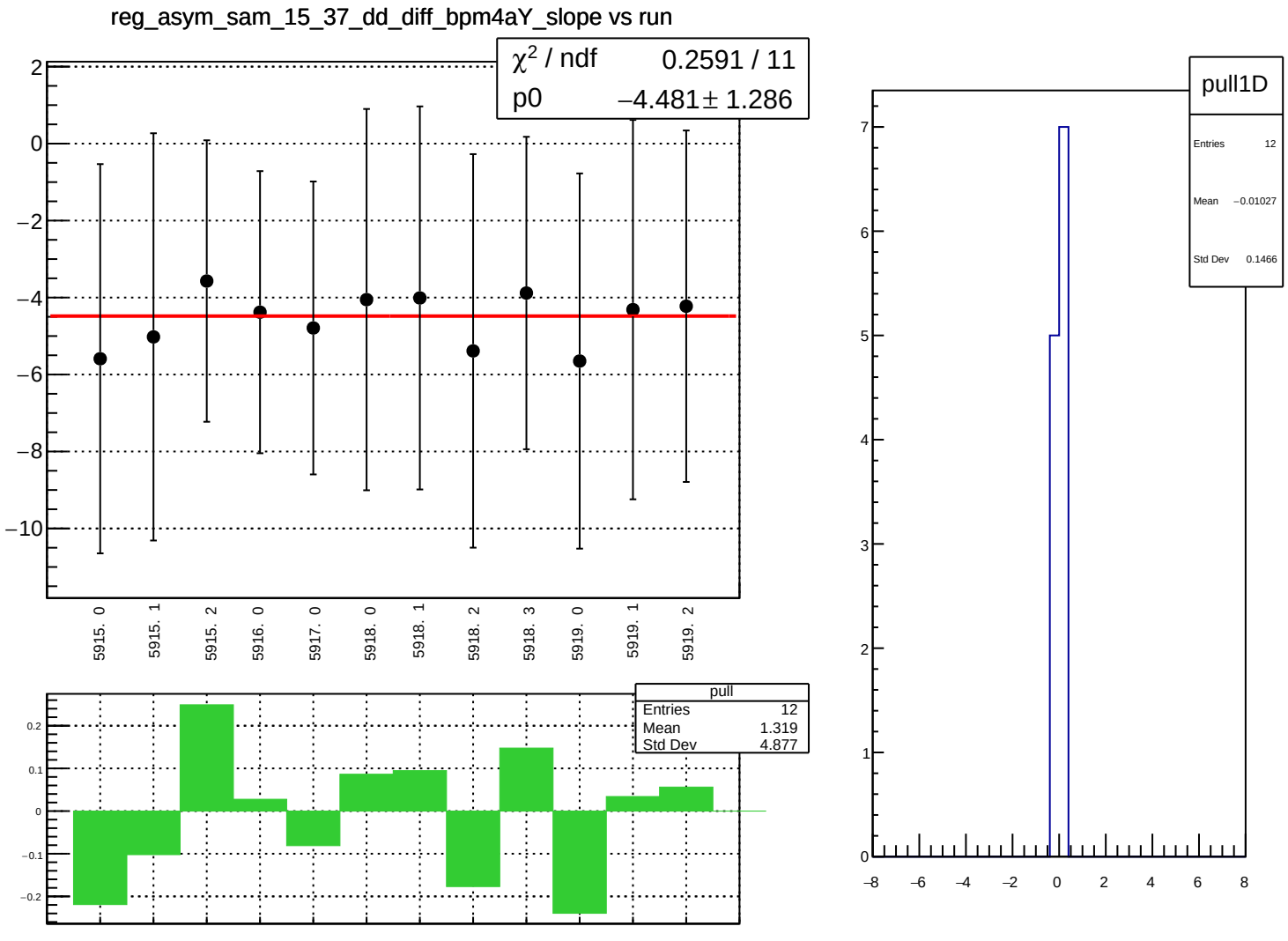

pull1D
Entries 12
Mean −0.002819
Std Dev 0.1537
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

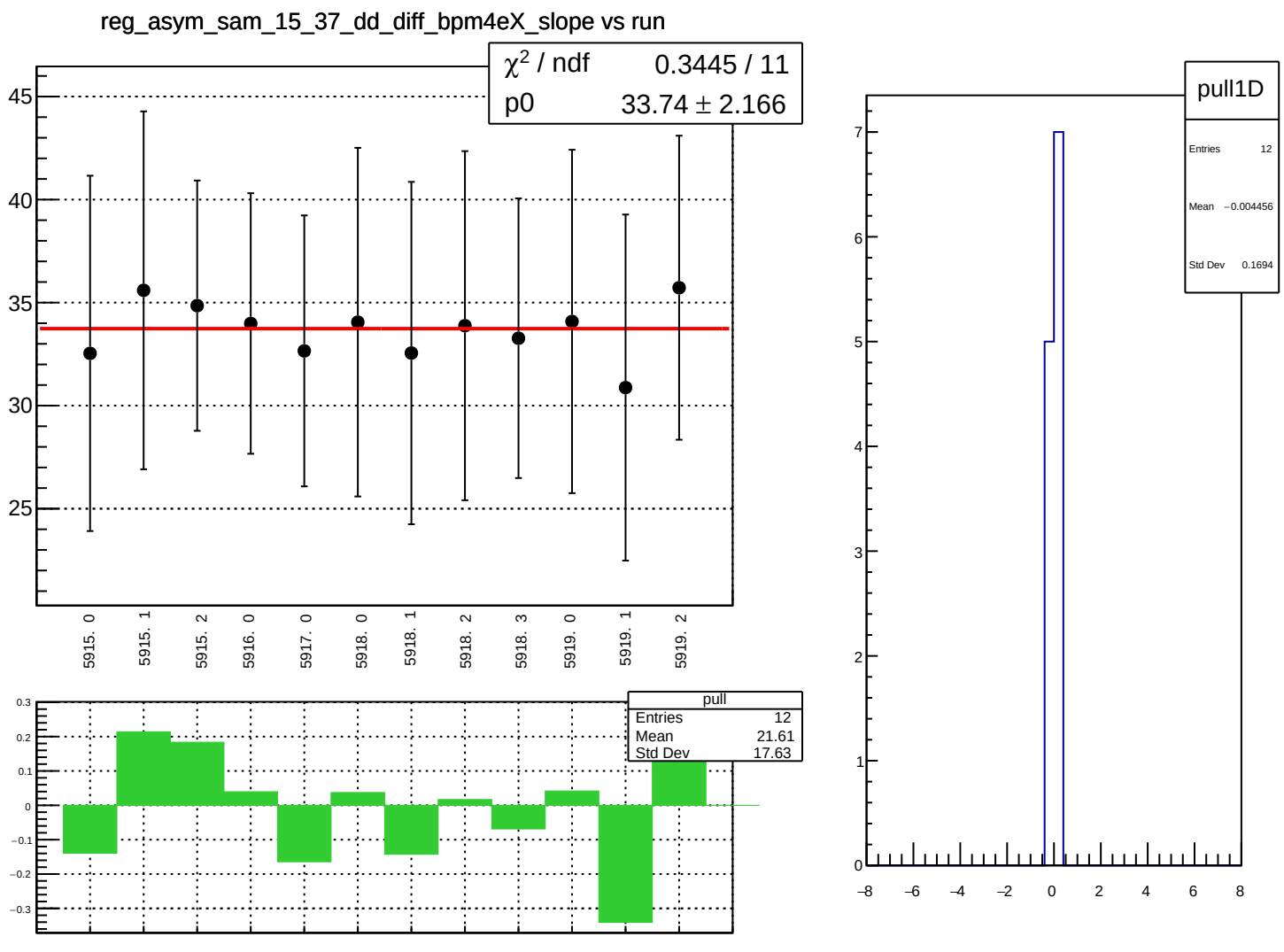

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4698 / 11
p0 −13.34 ± 1.87
−4
−6
−8
−10
−12
−14
−16
−18
−20
−22
−24
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 23.35
Std Dev 15.08
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.009743
Std Dev 0.1976
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

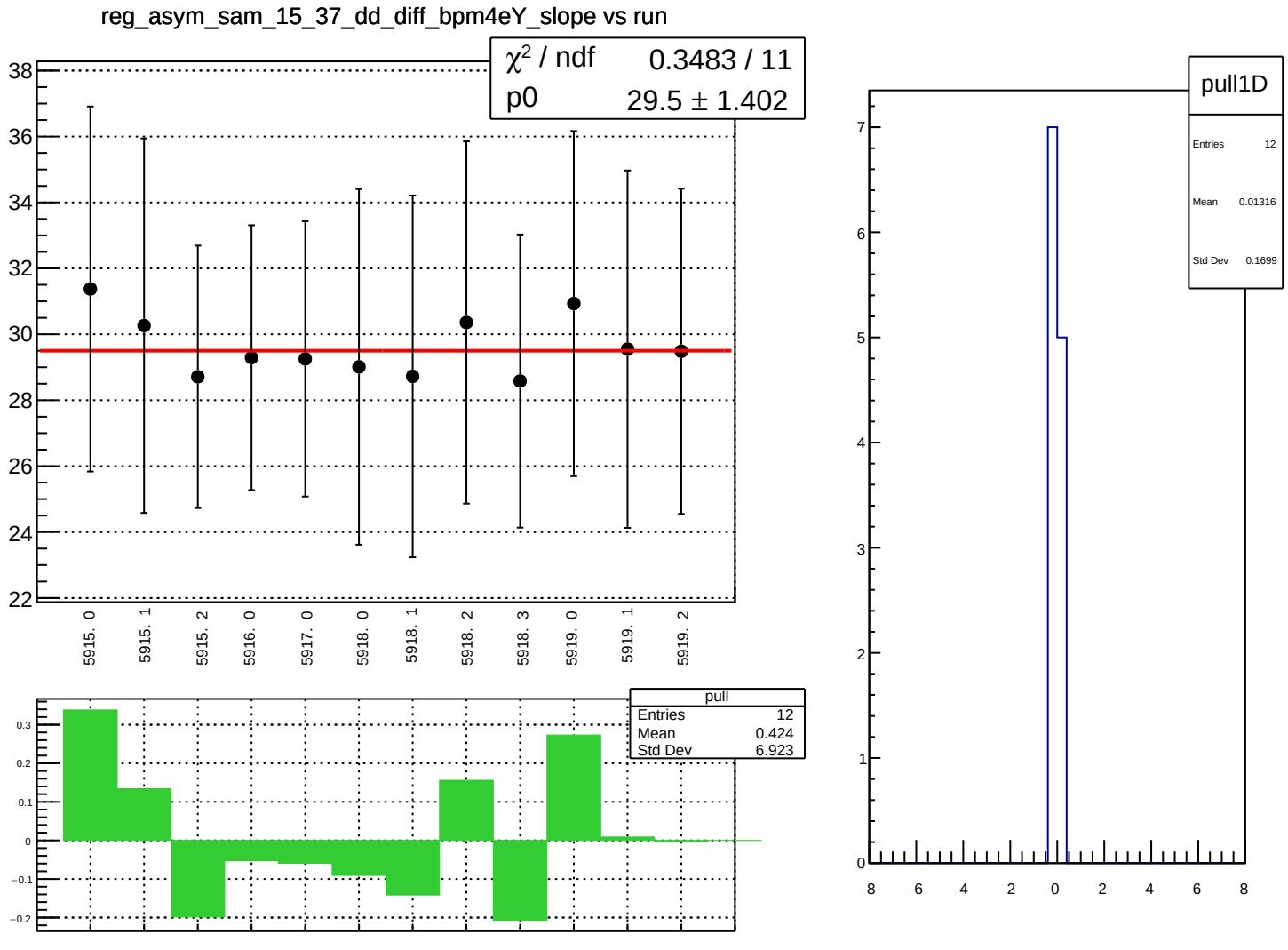

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 0.3553 / 11
p0 0.07529 ± 0.1243
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −460.4
Std Dev 467.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.0006607
Std Dev 0.1721
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

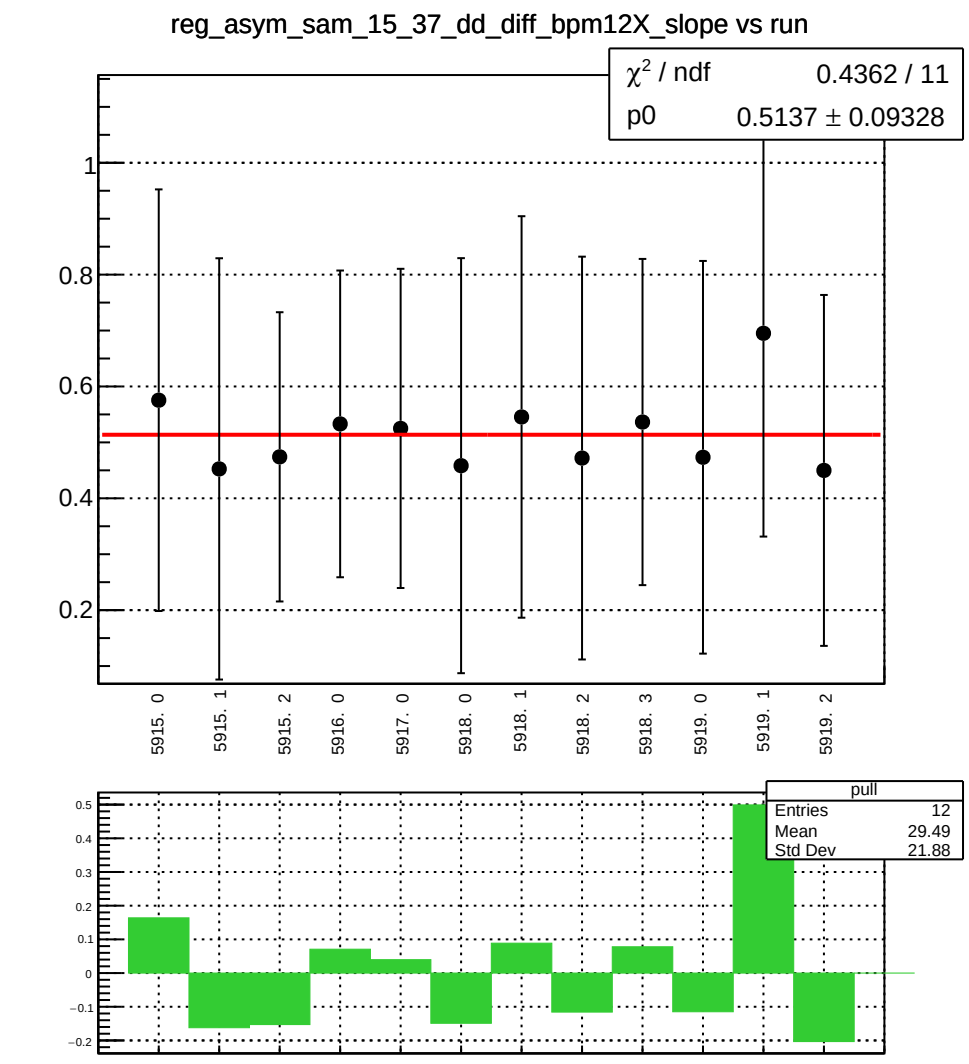

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.3008 / 11
p0 3.757 ± 1.733
14
12
10
8
6
4
2
0
−2
−4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.705
Std Dev 5.725
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

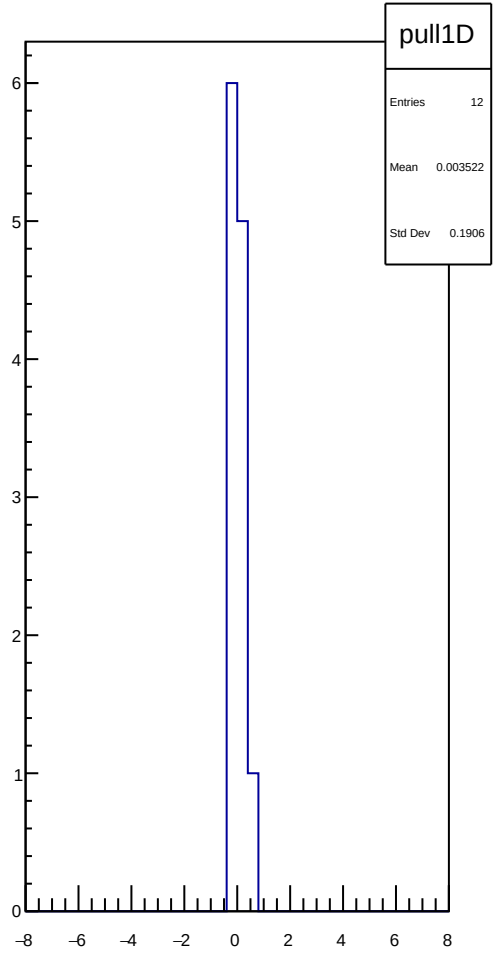

pull1D
Entries 12
Mean 0.006321
Std Dev 0.1582
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

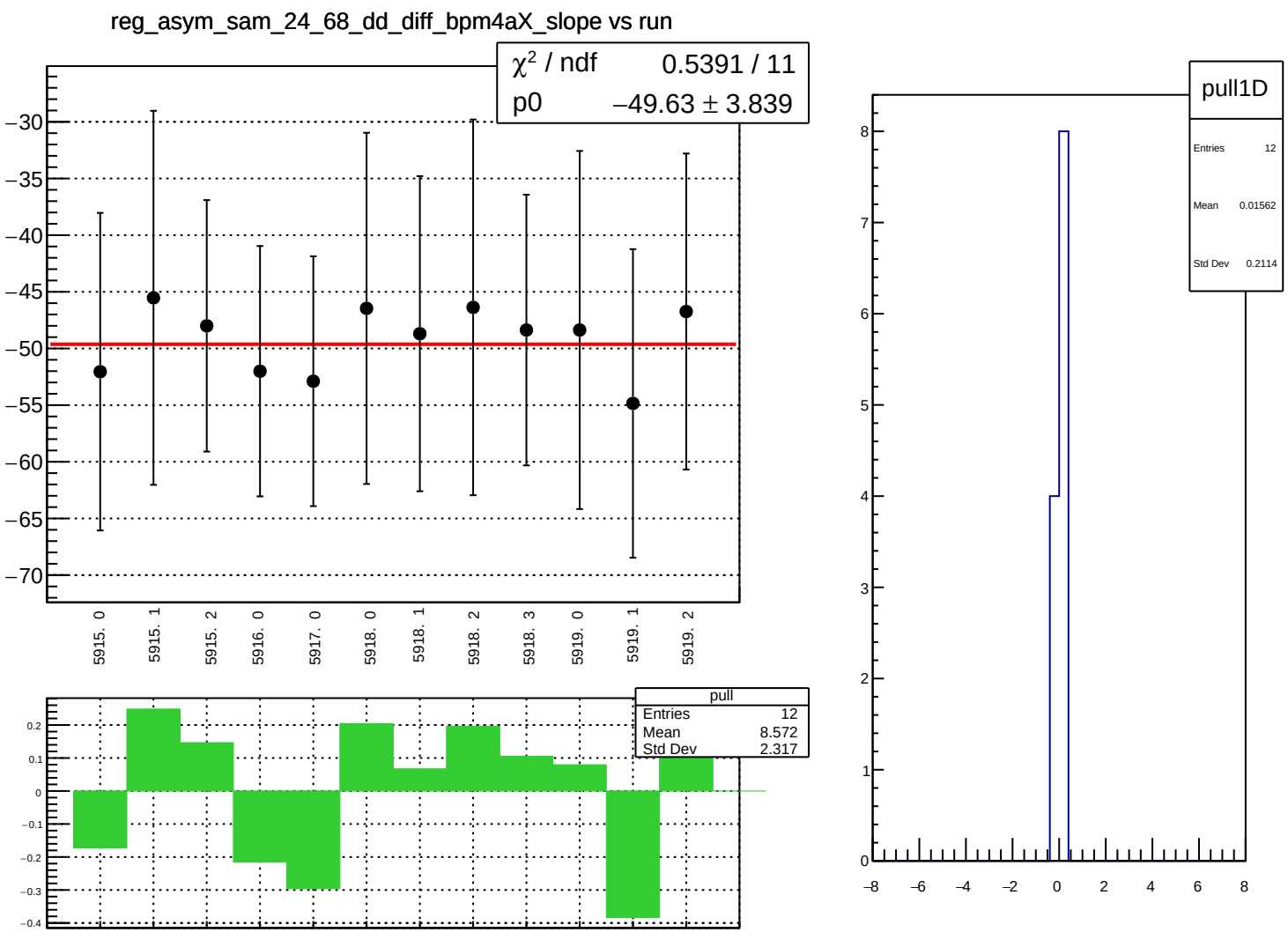

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.2591 / 11
p0 −4.481± 1.286
2
0
−2
−4
−6
−8
−10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 1.319
Std Dev 4.877
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 12
Mean −0.01027
Std Dev 0.1466
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

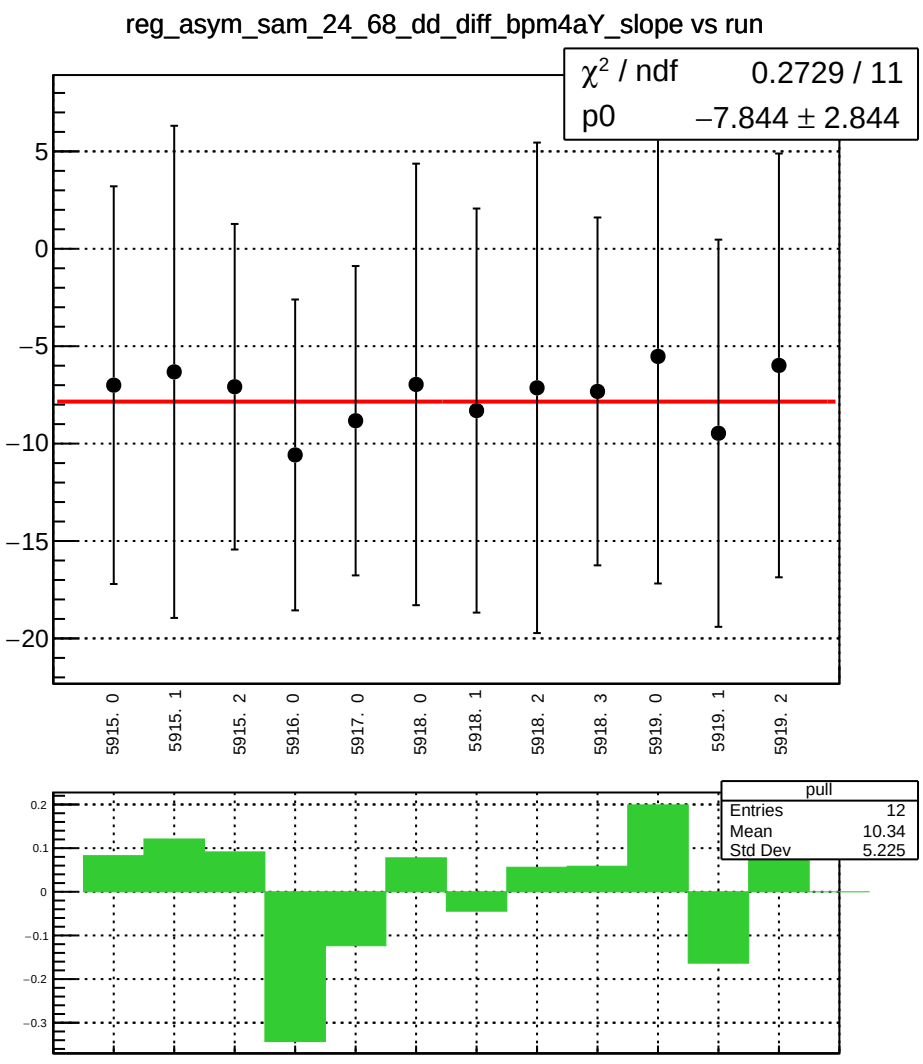

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.3445 / 11
p0 33.74 ± 2.166
45
40
35
30
25
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 21.61
Std Dev 17.63
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.004456
Std Dev 0.1694
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

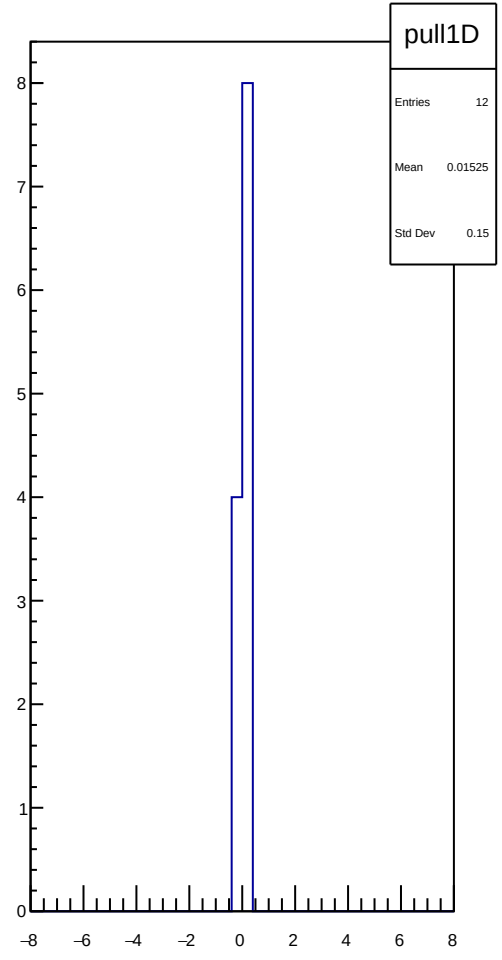

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3483 / 11
p0 29.5 ± 1.402
38
36
34
32
30
28
26
24
22
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.424
Std Dev 6.923
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 12
Mean 0.01316
Std Dev 0.1699
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

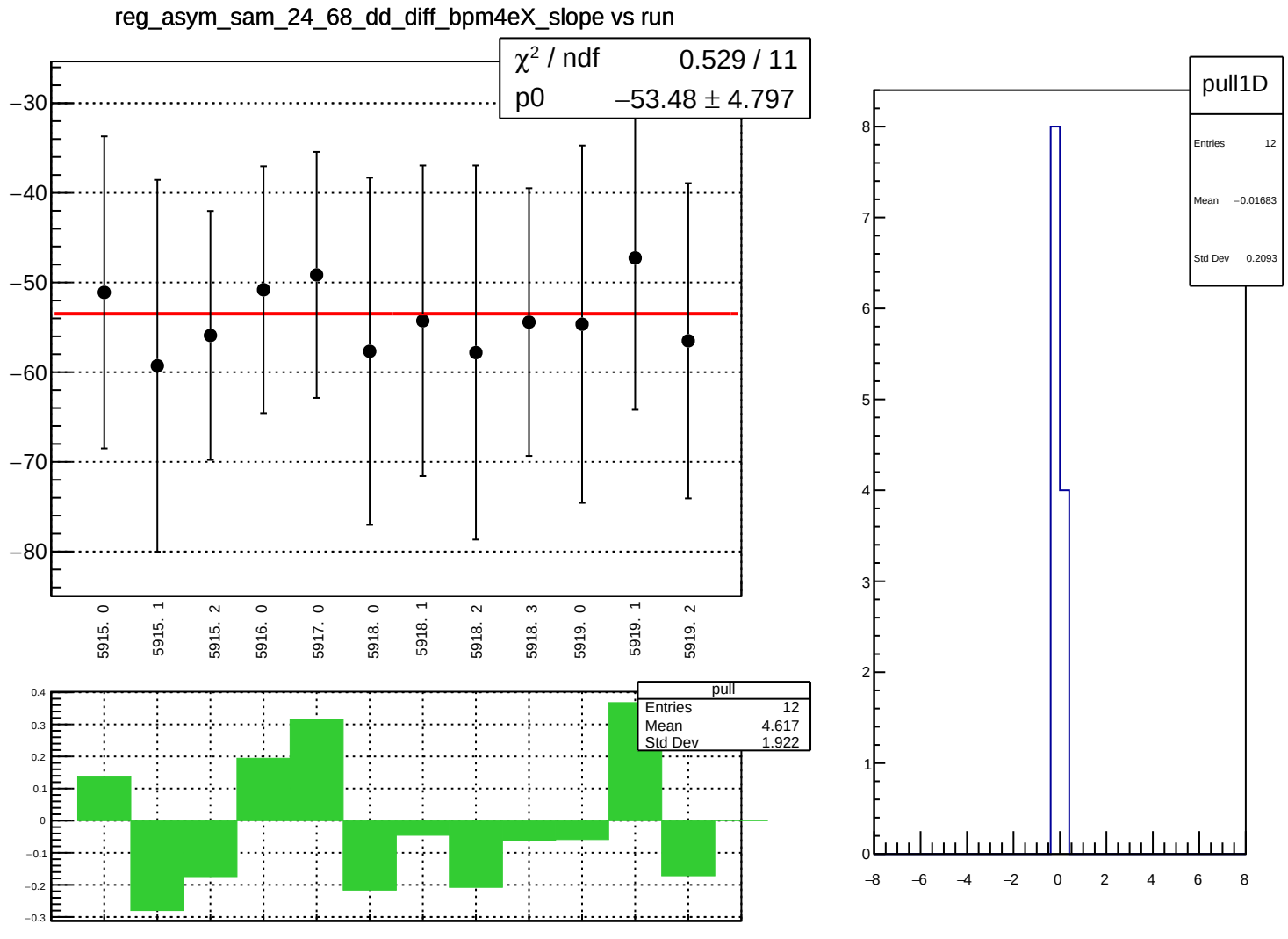

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4362 / 11
p0 0.5137 ± 0.09328
1
0.8
0.6
0.4
0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 29.49
Std Dev 21.88
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2

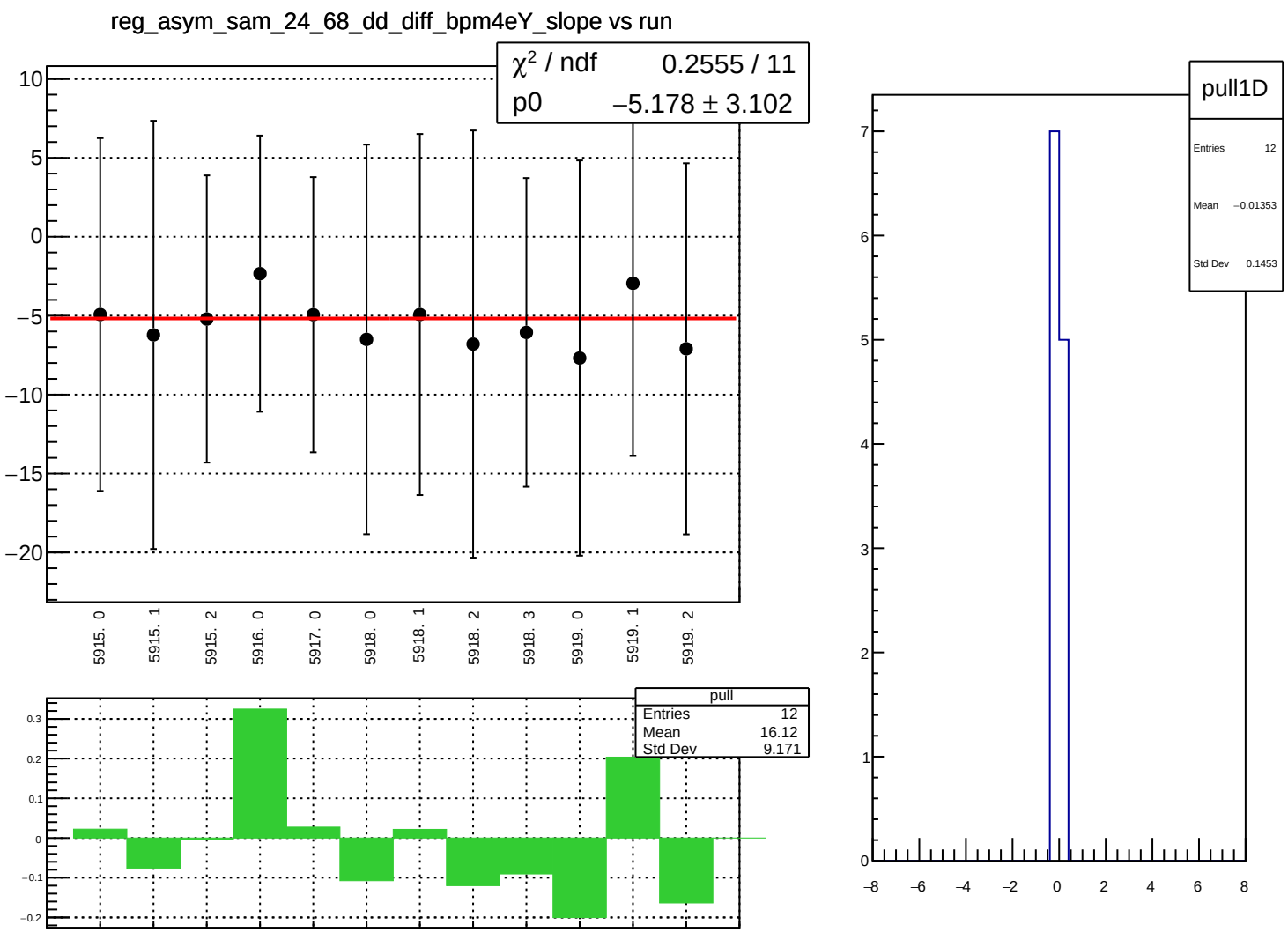

pull1D
Entries 12
Mean 0.003522
Std Dev 0.1906
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

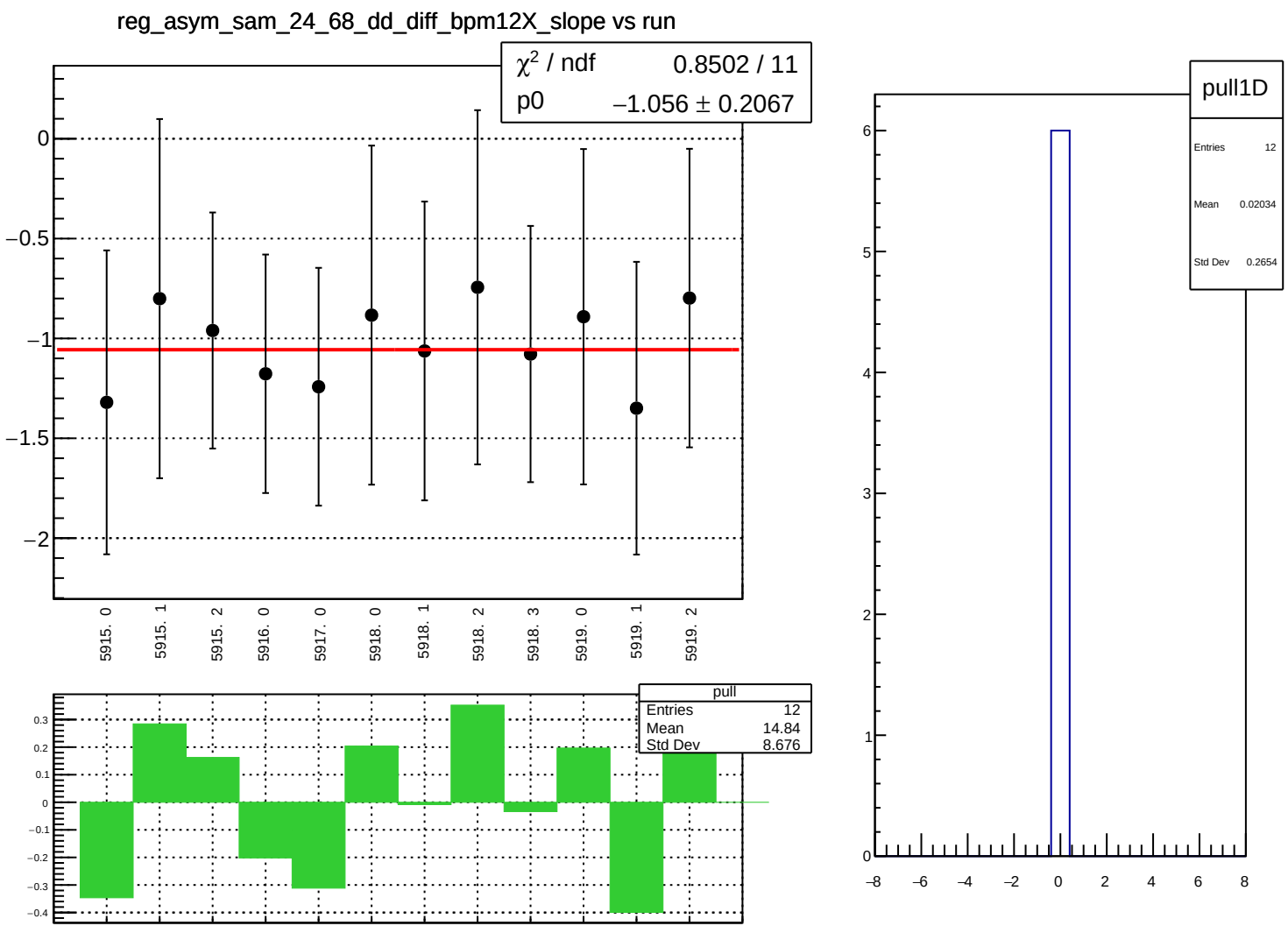

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.5391 / 11
p0 −49.63 ± 3.839
−30
−35
−40
−45
−50
−55
−60
−65
−70
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.572
Std Dev 2.317
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 12
Mean 0.01562
Std Dev 0.2114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

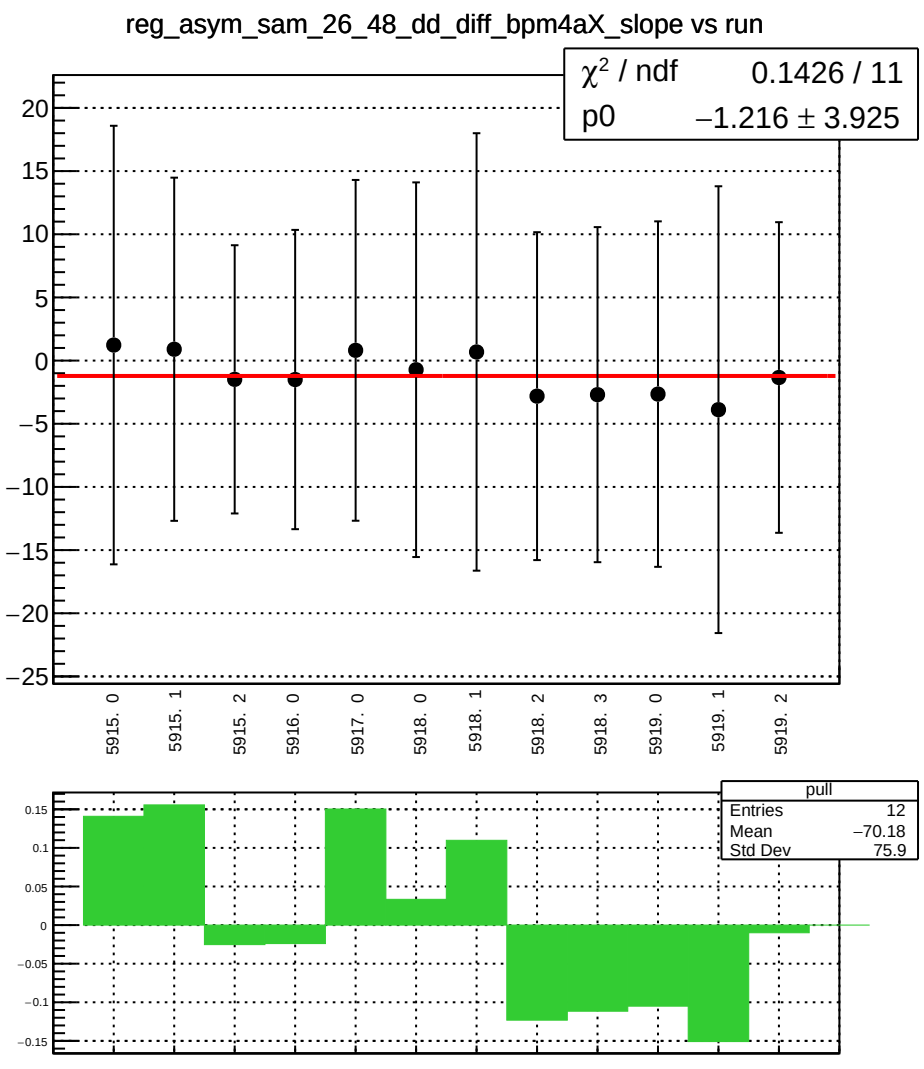

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.2729 / 11
p0 −7.844 ± 2.844
5
0
−5
−10
−15
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 10.34
Std Dev 5.225
0.2
0.1
0
−0.1
−0.2
−0.3

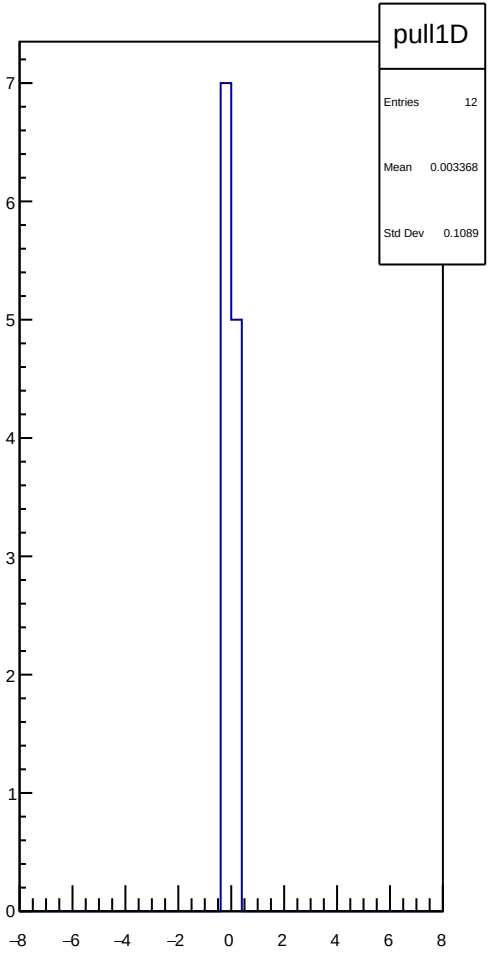

pull1D
Entries 12
Mean 0.01525
Std Dev 0.15
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

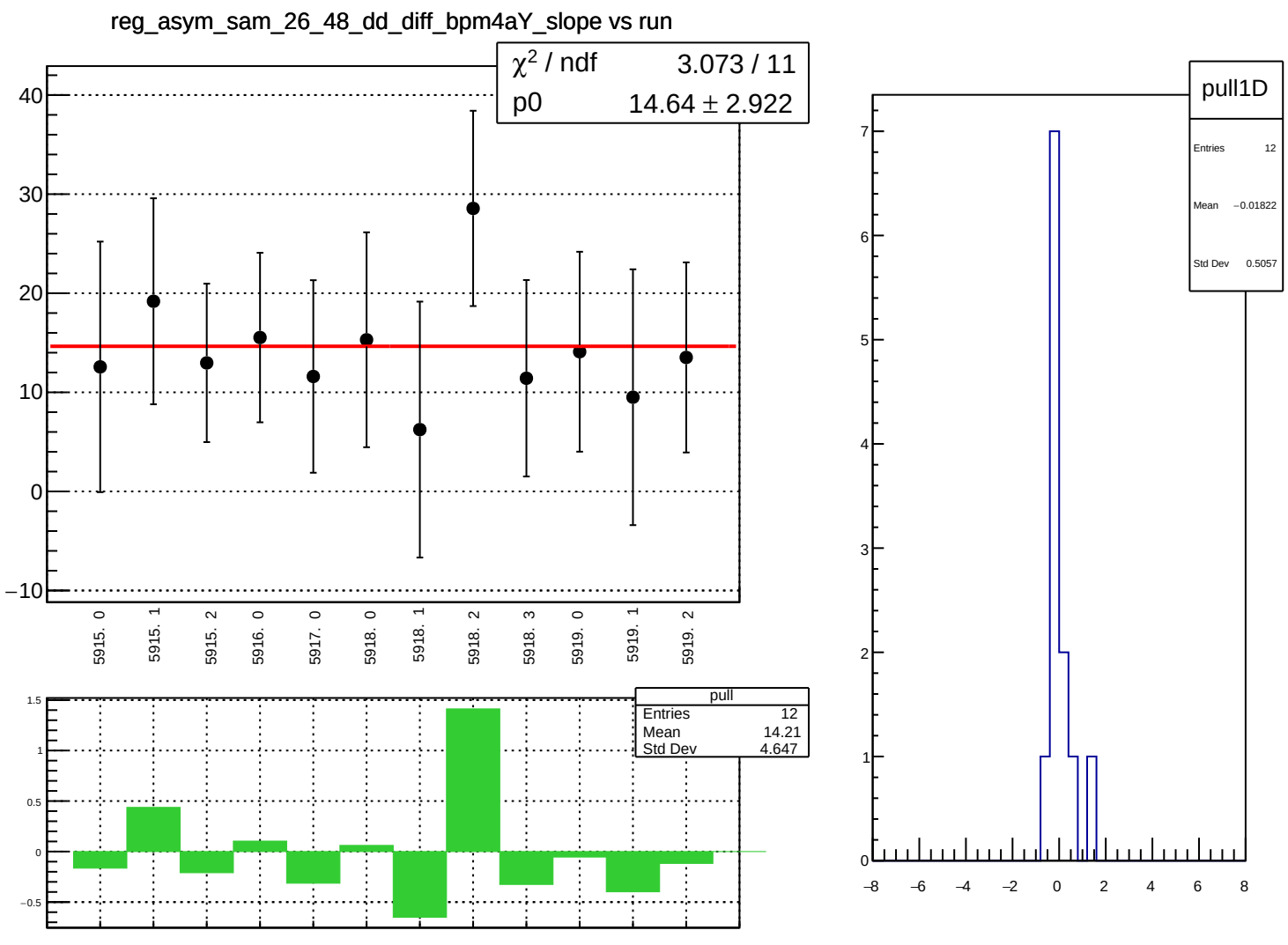

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.529 / 11
p0 −53.48 ± 4.797
−30
−40
−50
−60
−70
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.617
Std Dev 1.922
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.01683
Std Dev 0.2093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

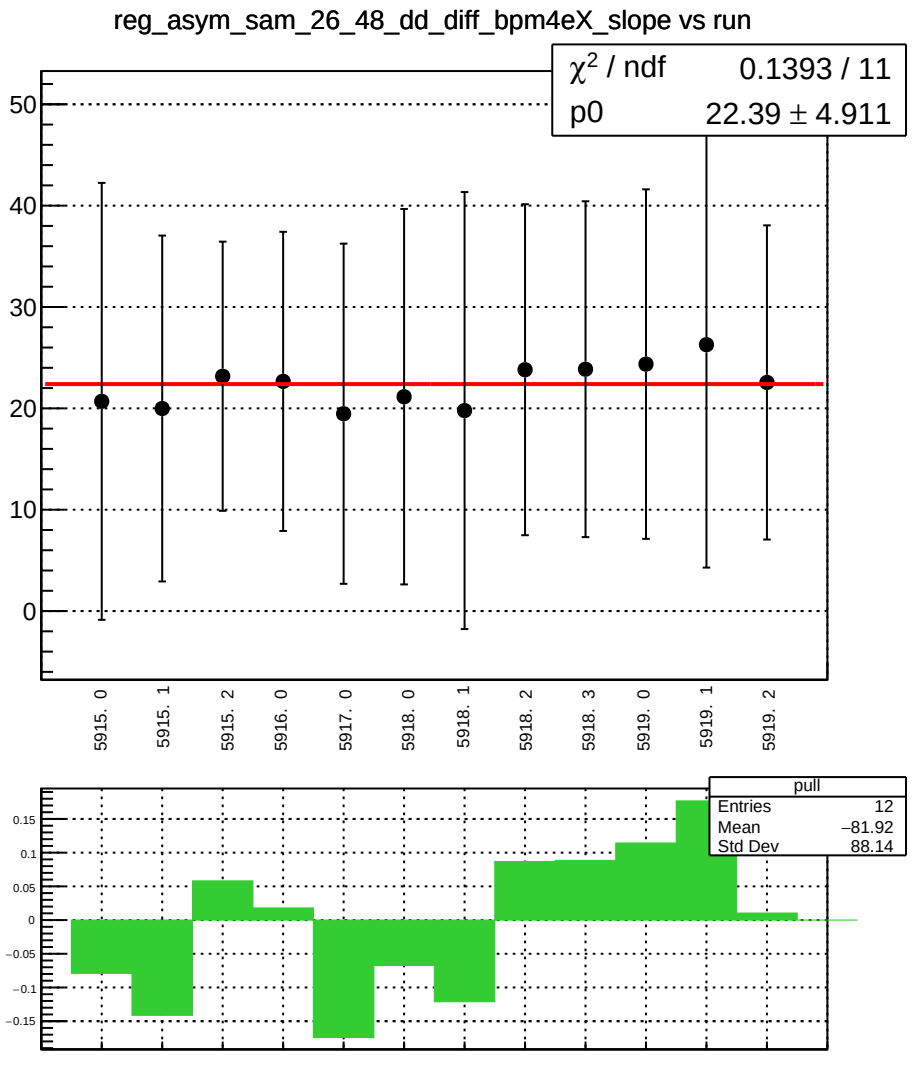

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.2555 / 11
p0 −5.178 ± 3.102
10
5
0
−5
−10
−15
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.12
Std Dev 9.171
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 12
Mean −0.01353
Std Dev 0.1453
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

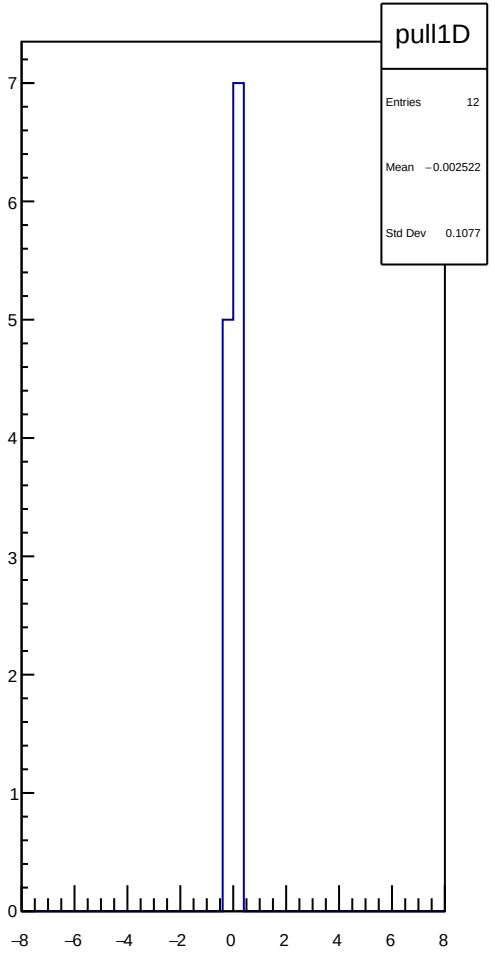

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8502 / 11
p0 −1.056 ± 0.2067
0
−0.5
−1
−1.5
−2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 14.84
Std Dev 8.676
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 12
Mean 0.02034
Std Dev 0.2654
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

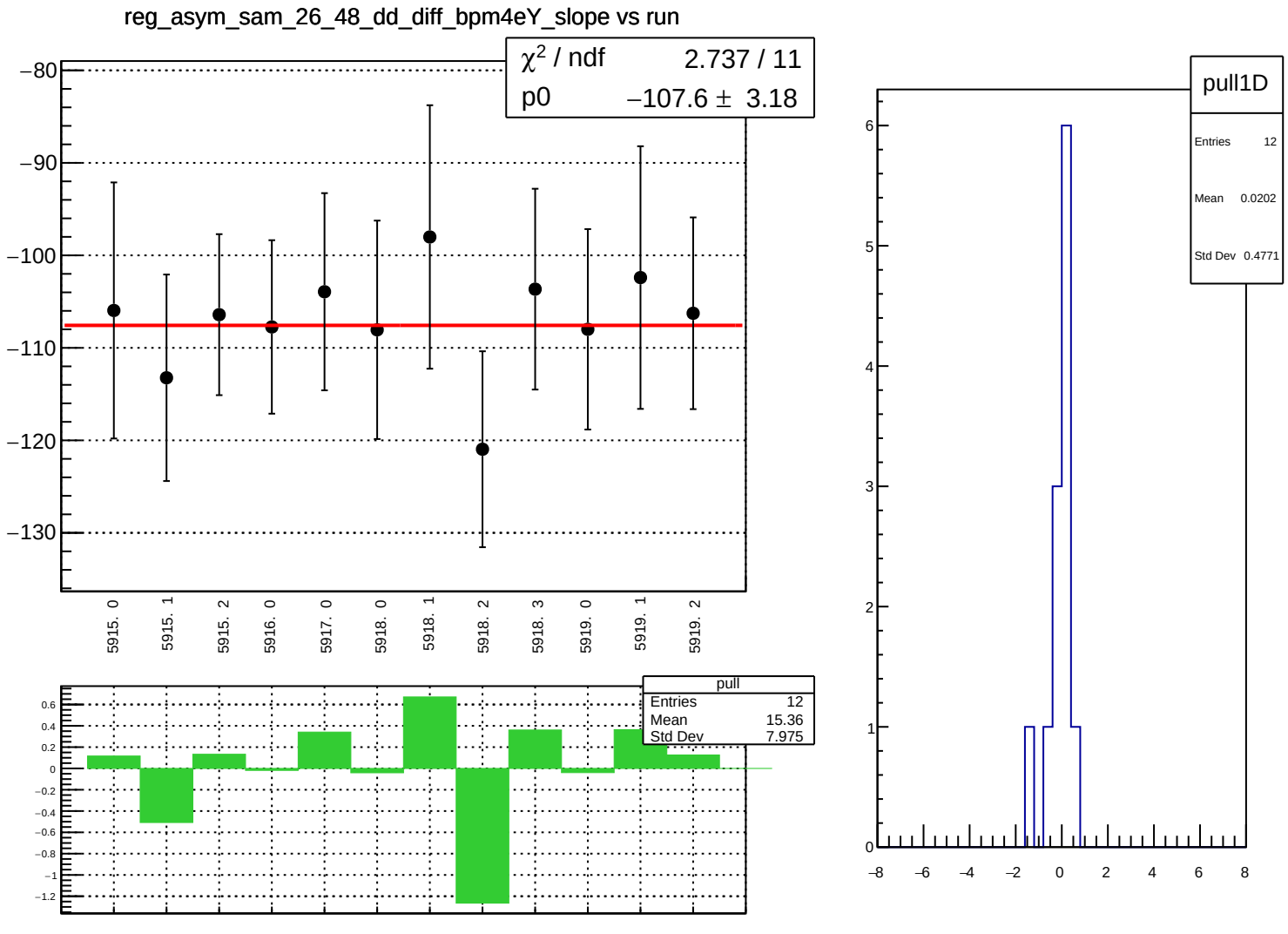

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.1426 / 11
p0 −1.216 ± 3.925
20
15
10
5
0
−5
−10
−15
−20
−25
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −70.18
Std Dev 75.9
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

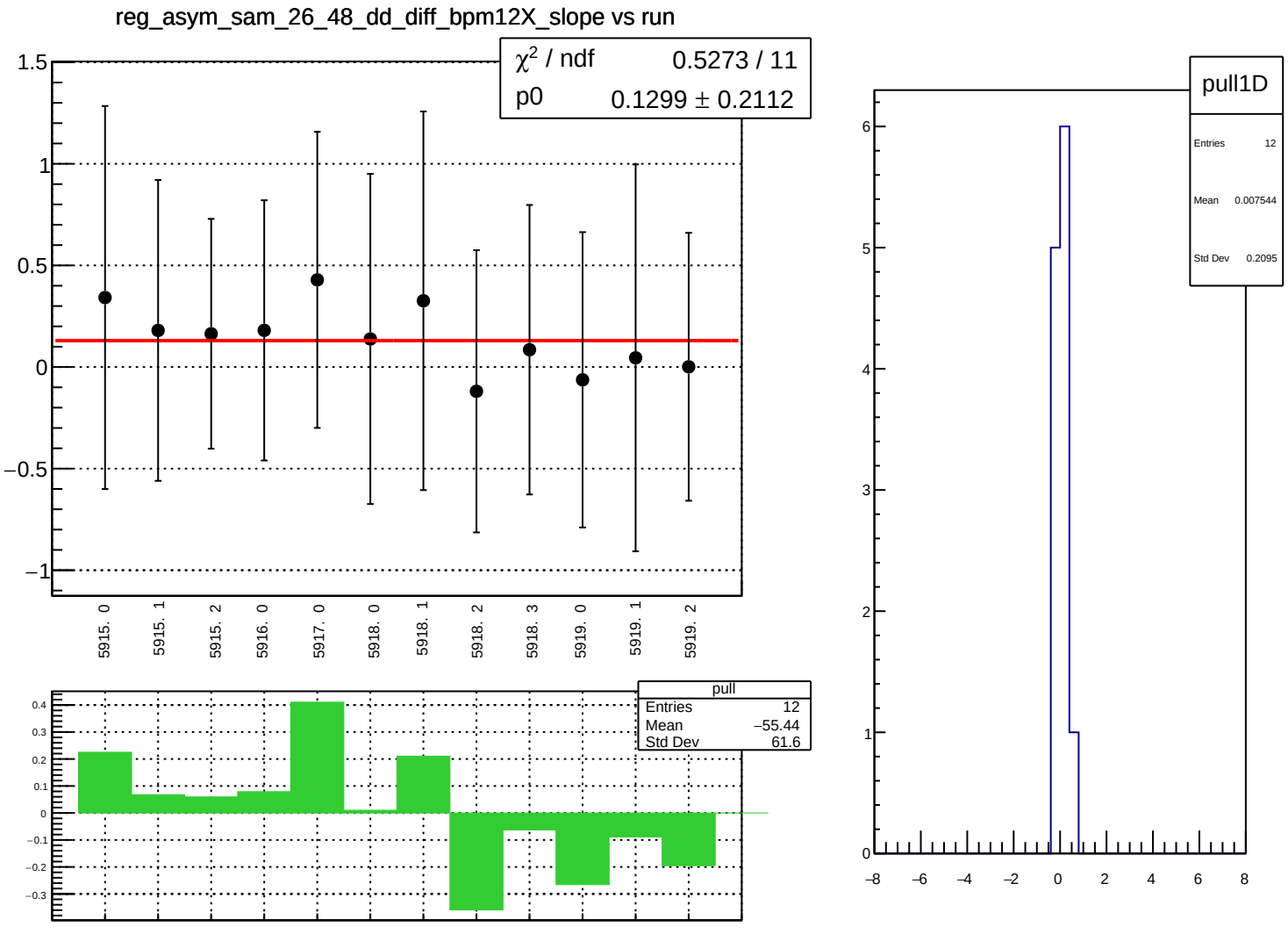

pull1D
Entries 12
Mean 0.003368
Std Dev 0.1089
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

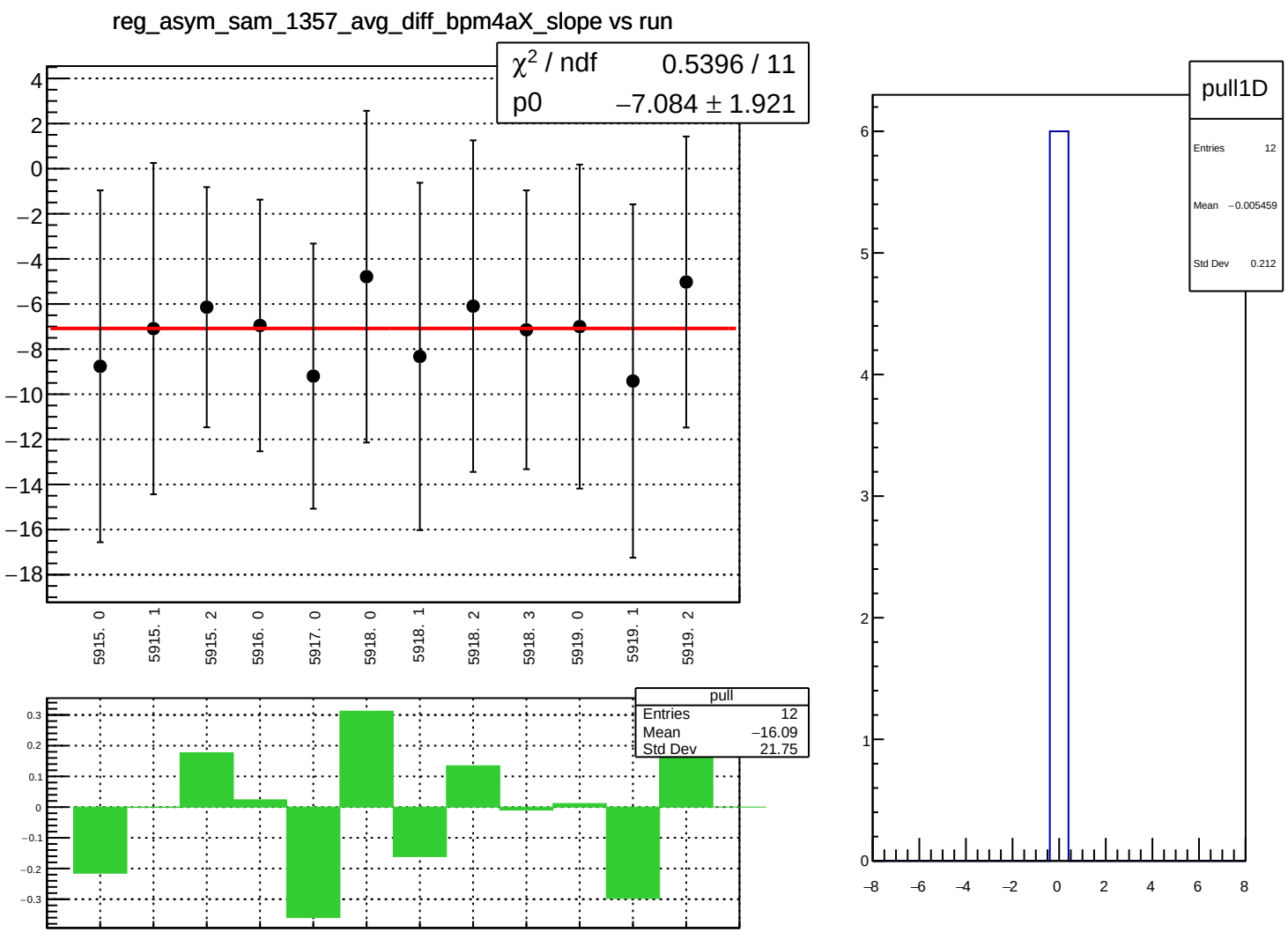

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.073 / 11
p0 14.64 ± 2.922
40
30
20
10
0
−10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 14.21
Std Dev 4.647
1.5
1
0.5
0
−0.5
pull1D
Entries 12
Mean −0.01822
Std Dev 0.5057
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

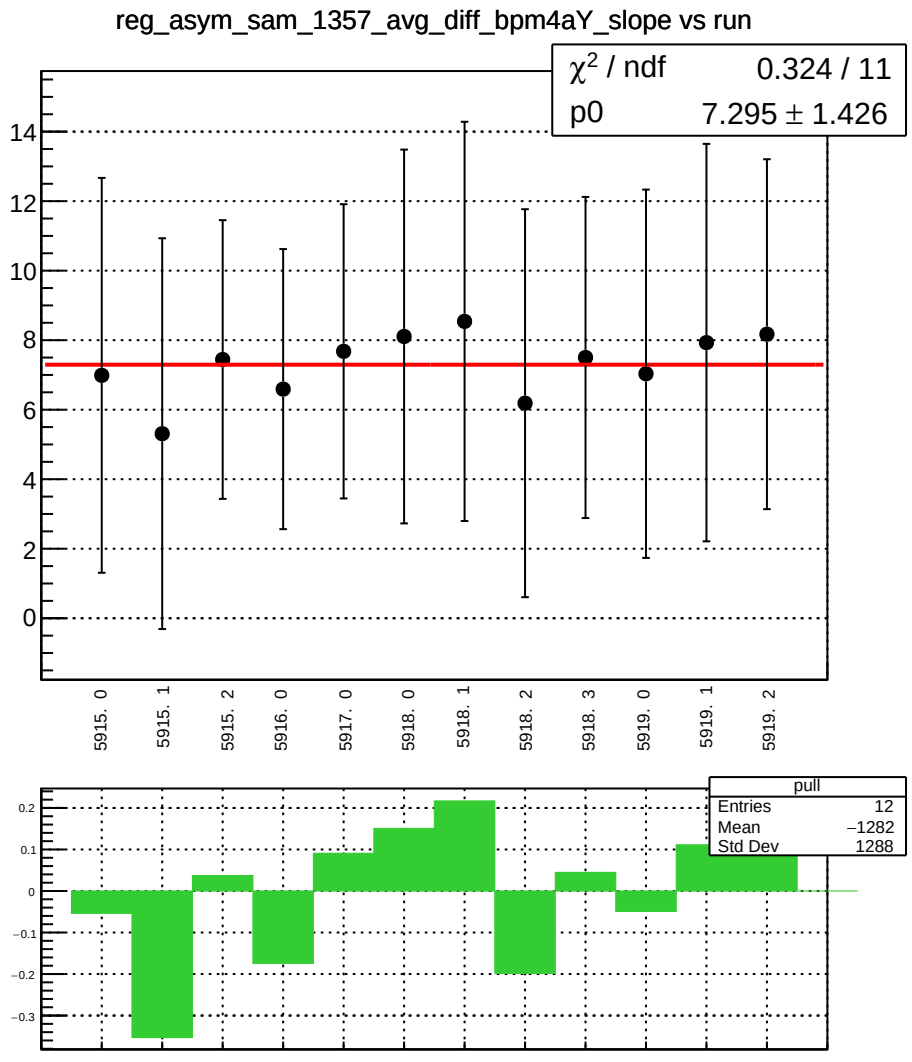

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1393 / 11
p0 22.39 ± 4.911
50
40
30
20
10
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −81.92
Std Dev 88.14
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

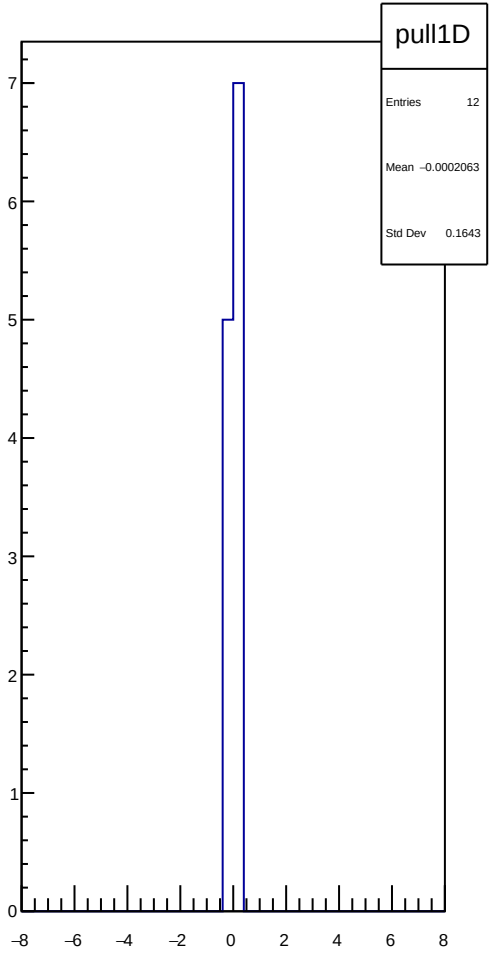

pull1D
Entries 12
Mean −0.002522
Std Dev 0.1077
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

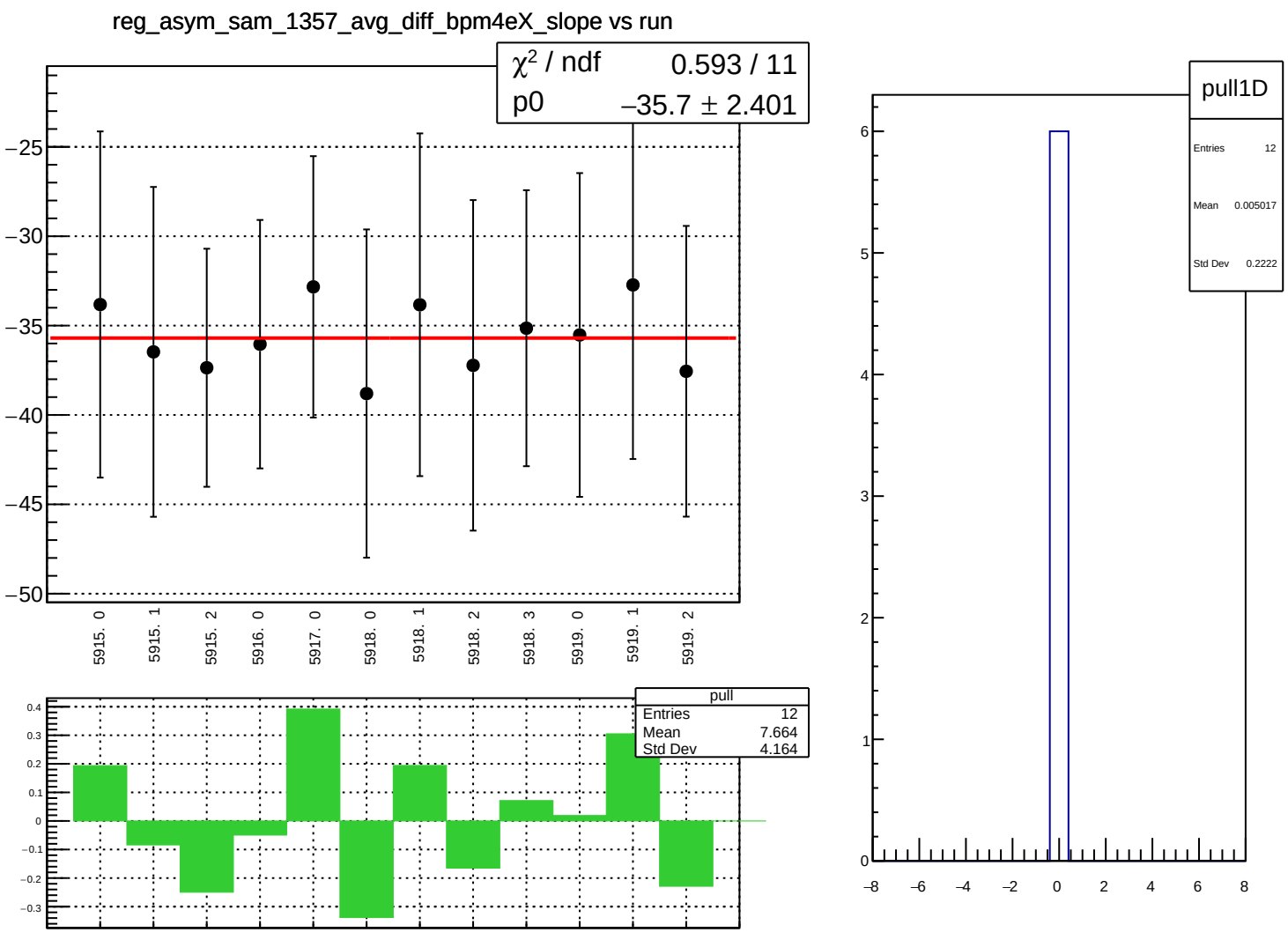

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.737 / 11
p0 −107.6 ± 3.18
−80
−90
−100
−110
−120
−130
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 15.36
Std Dev 7.975
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 12
Mean 0.0202
Std Dev 0.4771
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

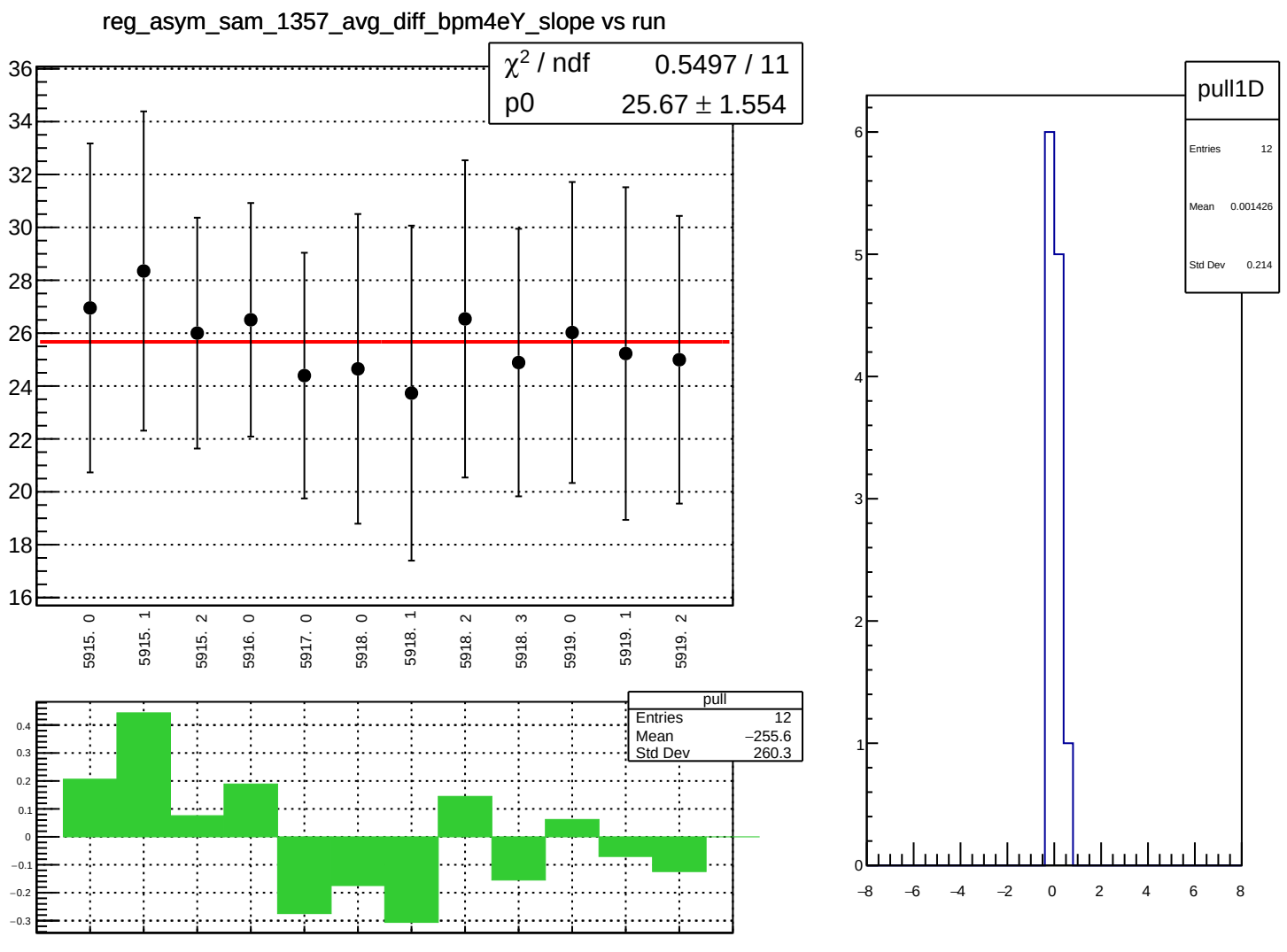

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.5273 / 11
p0 0.1299 ± 0.2112
1.5
1
0.5
0
−0.5
−1
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −55.44
Std Dev 61.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.007544
Std Dev 0.2095
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

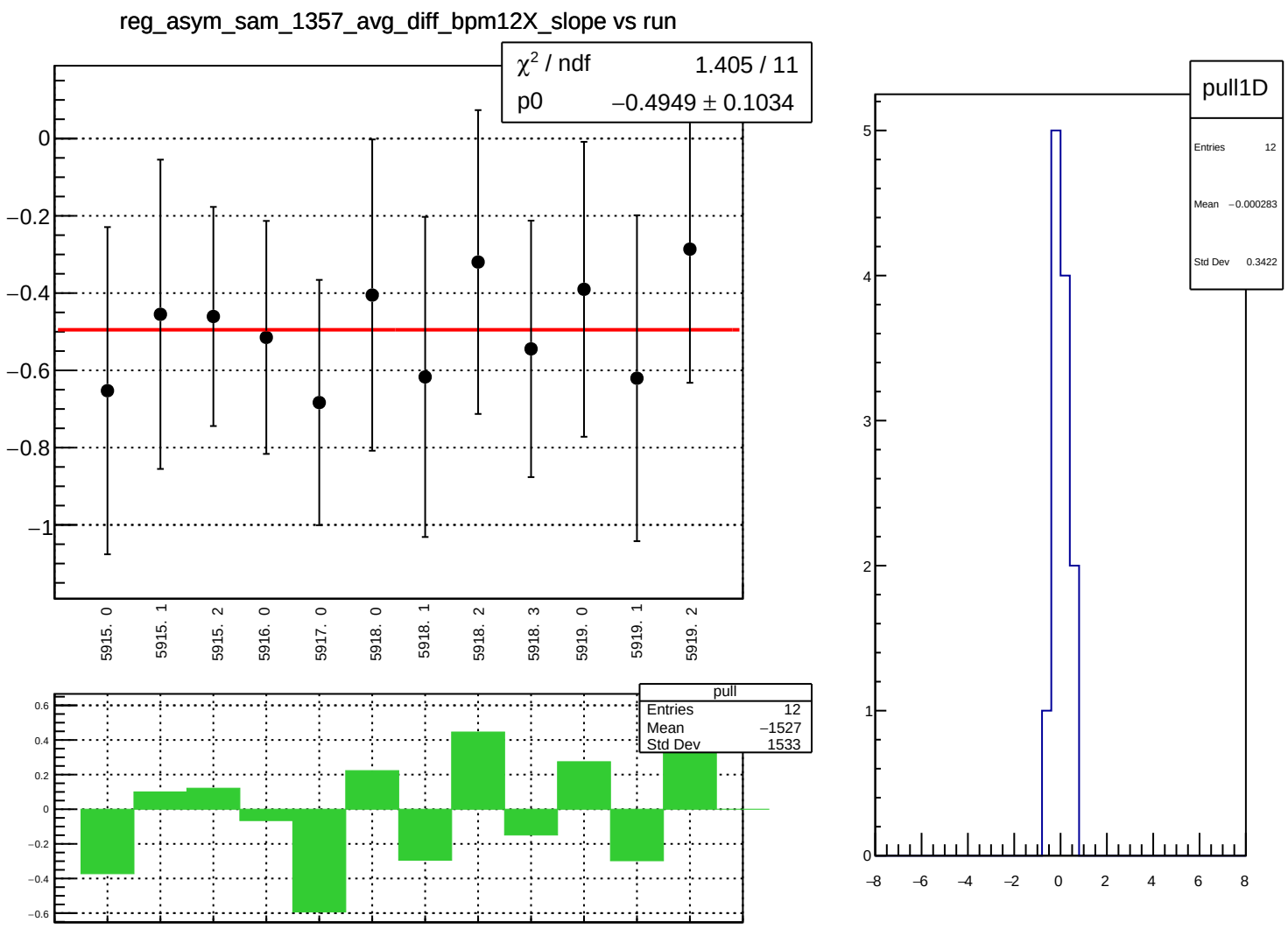

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.5396 / 11
p0 −7.084 ± 1.921
4
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −16.09
Std Dev 21.75
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.005459
Std Dev 0.212
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

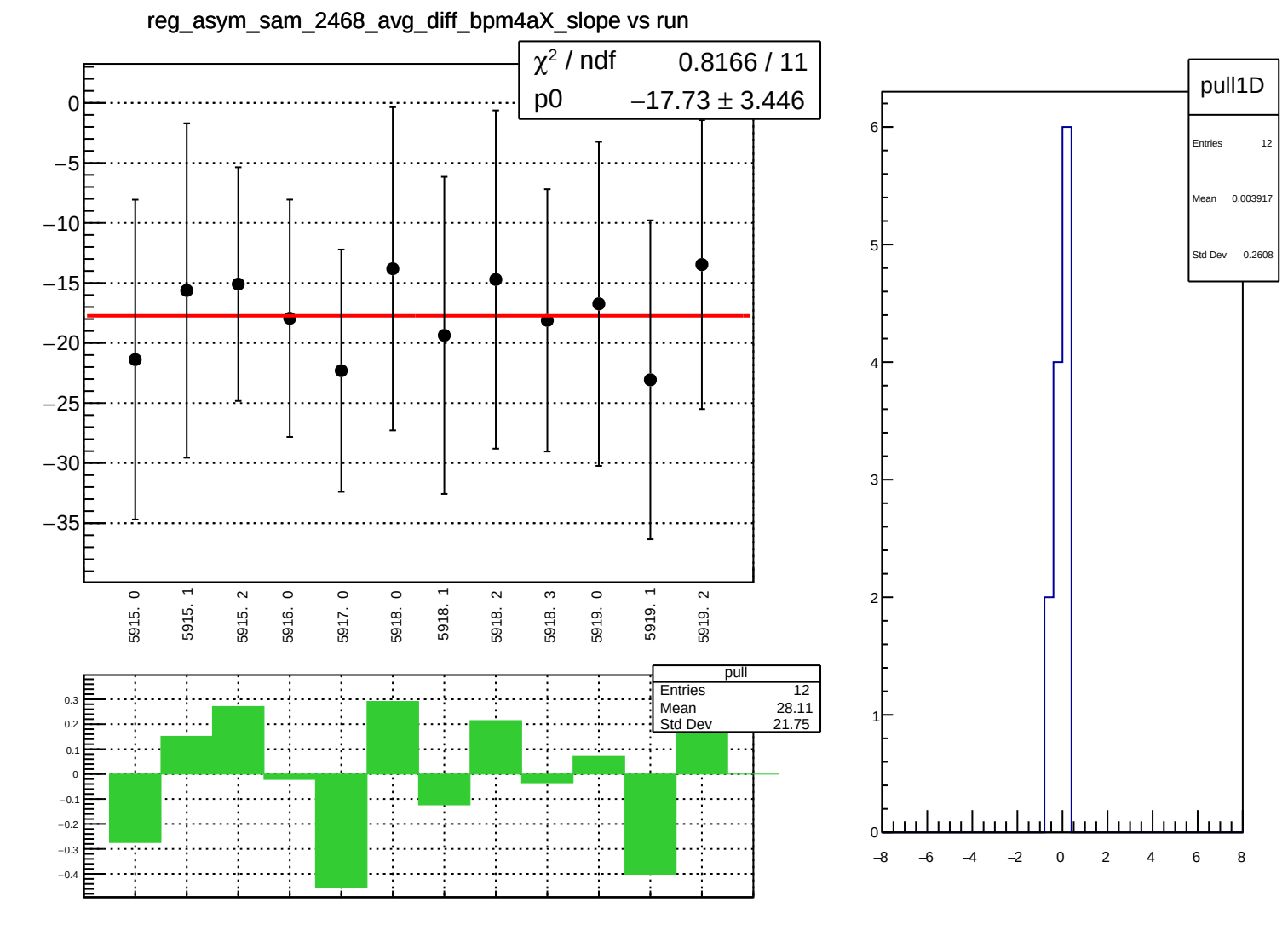

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.324 / 11
p0 7.295 ± 1.426
14
12
10
8
6
4
2
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −1282
Std Dev 1288
0.2
0.1
0
−0.1
−0.2
−0.3

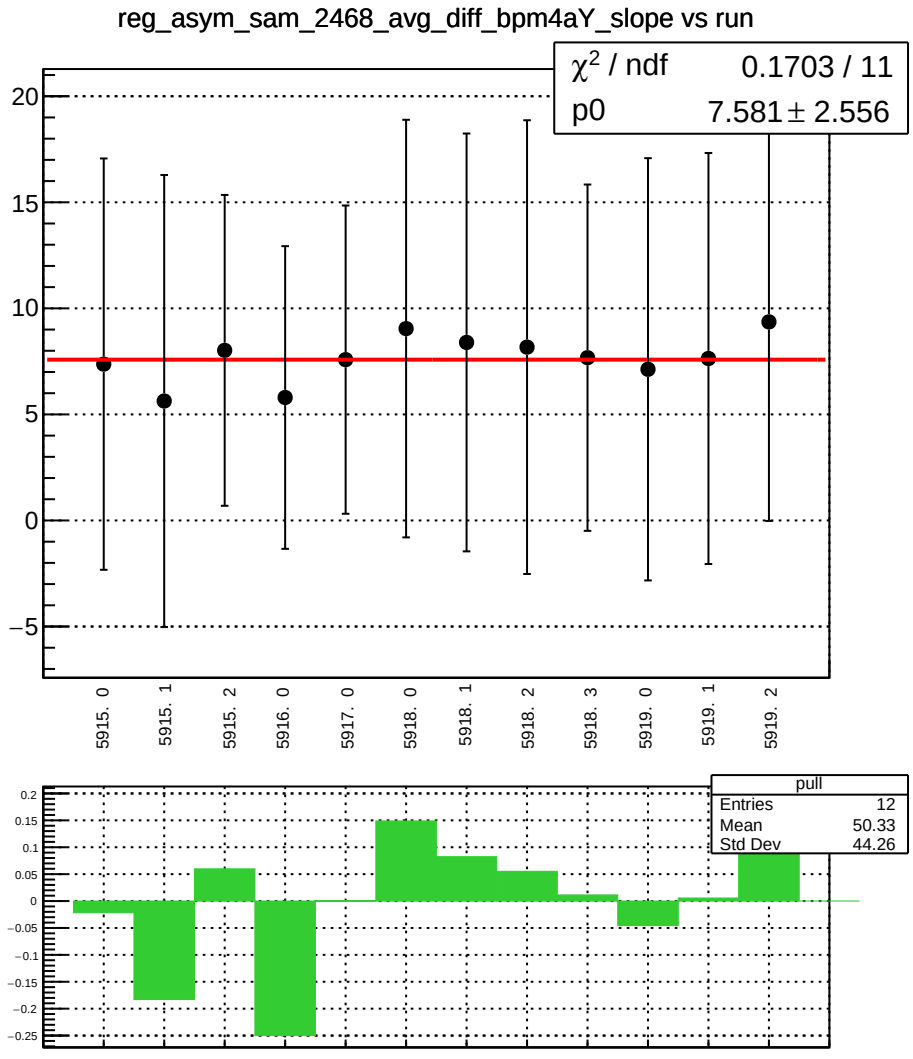

pull1D
Entries 12
Mean −0.0002063
Std Dev 0.1643
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

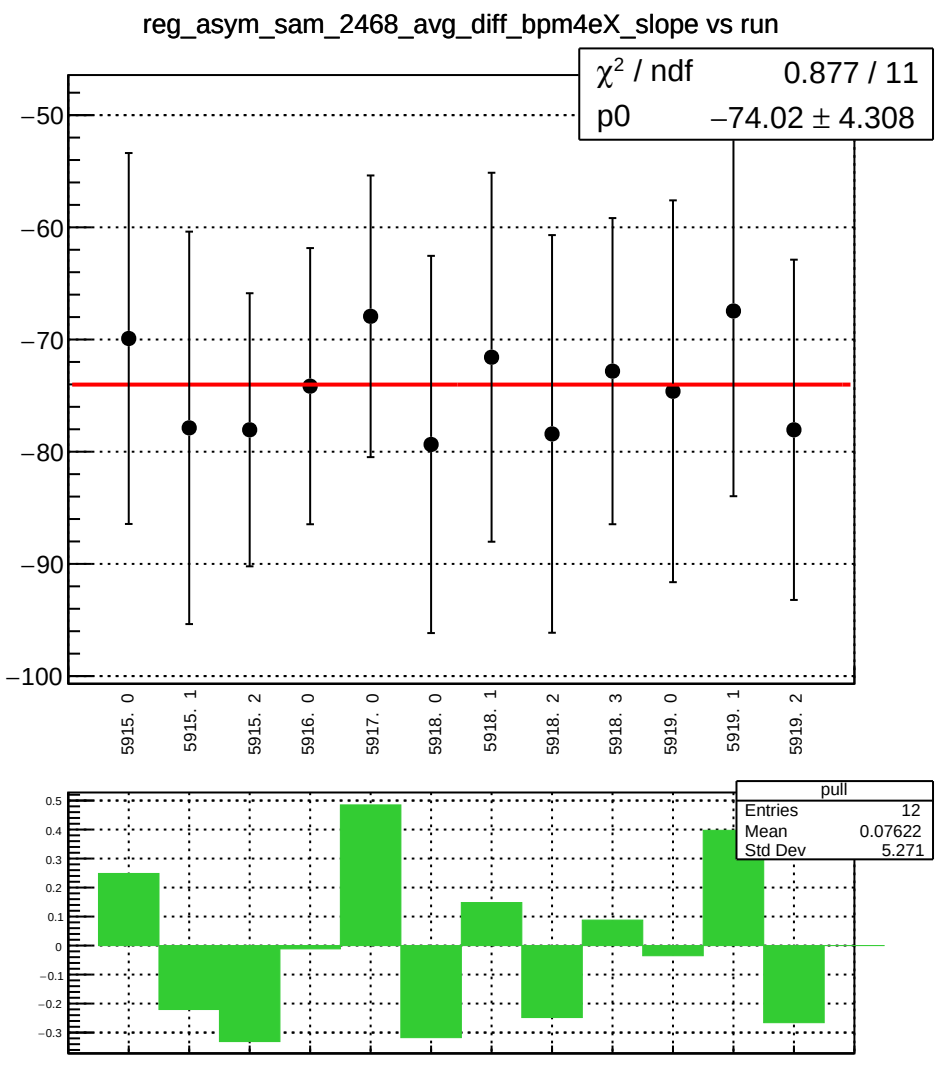

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.593 / 11
p0 −35.7 ± 2.401
−25
−30
−35
−40
−45
−50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.664
Std Dev 4.164
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.005017
Std Dev 0.2222
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

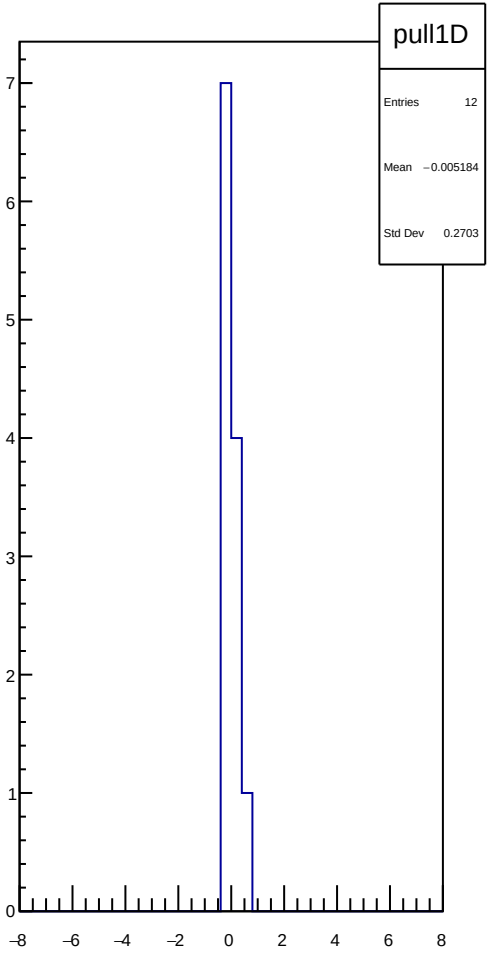

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5497 / 11
p0 25.67 ± 1.554
36
34
32
30
28
26
24
22
20
18
16
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −255.6
Std Dev 260.3
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.001426
Std Dev 0.214
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

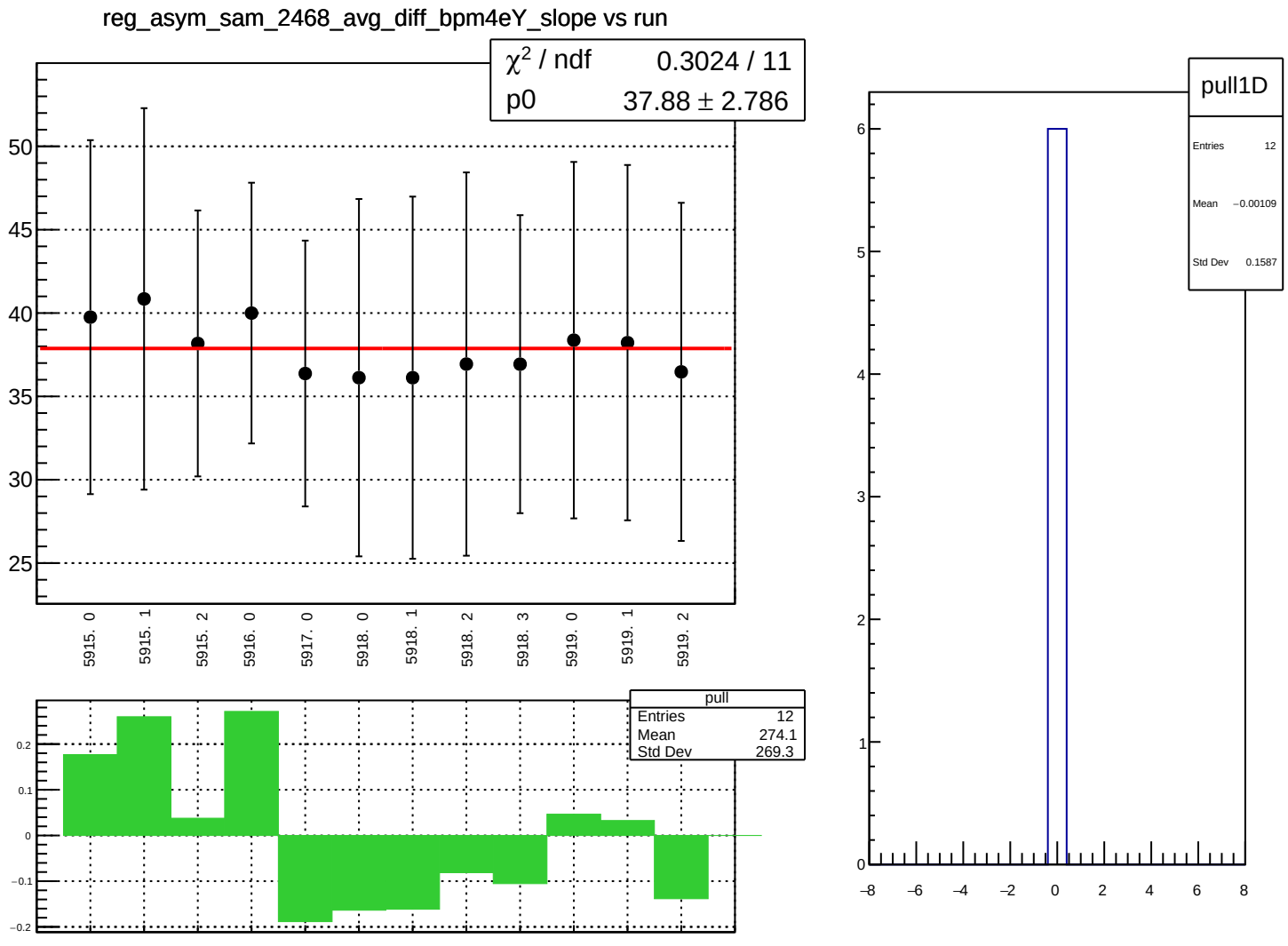

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.405 / 11
p0 −0.4949 ± 0.1034
0
−0.2
−0.4
−0.6
−0.8
−1
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −1527
Std Dev 1533
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.000283
Std Dev 0.3422
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

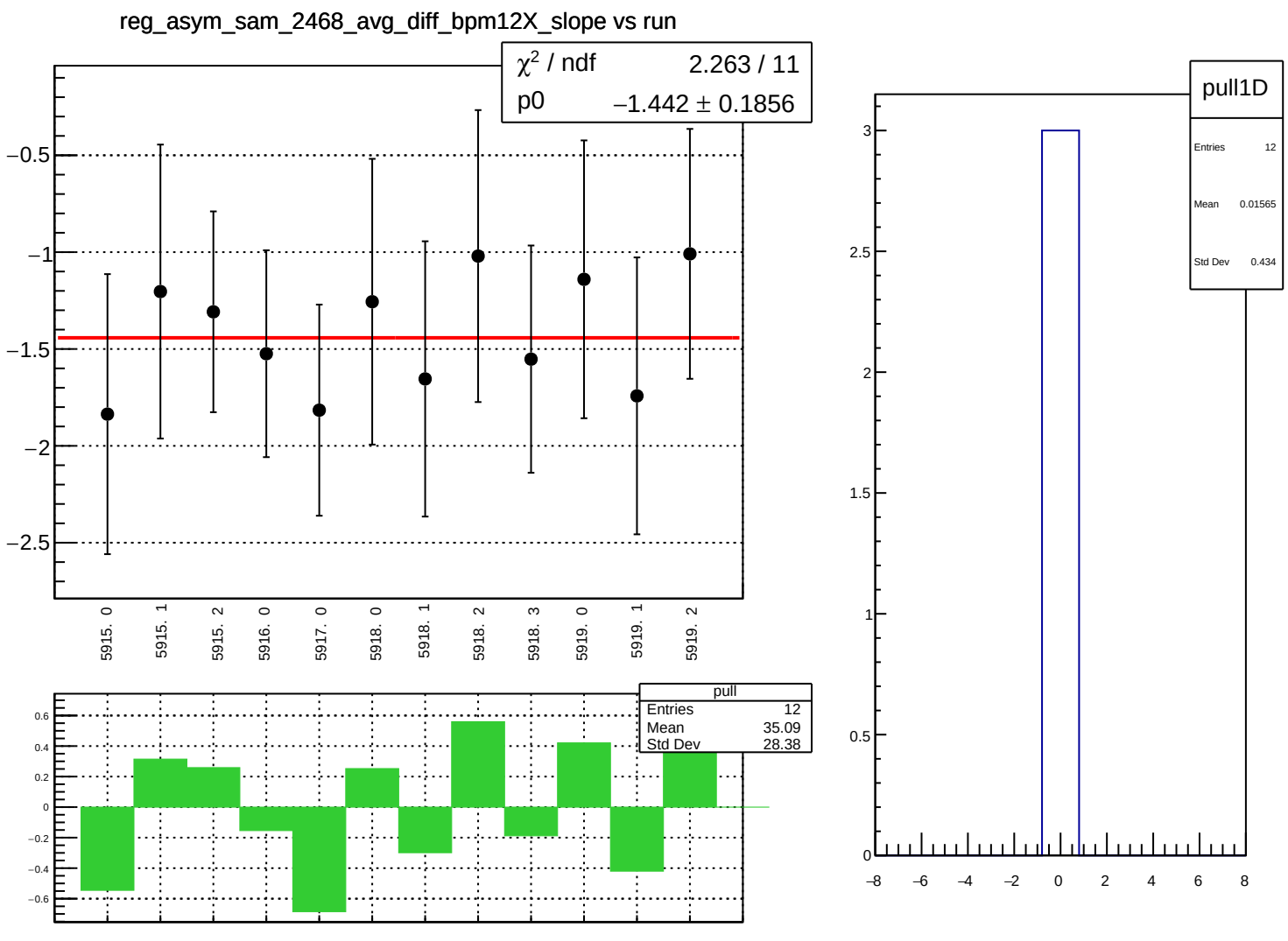

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.8166 / 11
p0 −17.73 ± 3.446
0
−5
−10
−15
−20
−25
−30
−35
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.11
Std Dev 21.75
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 12
Mean 0.003917
Std Dev 0.2608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

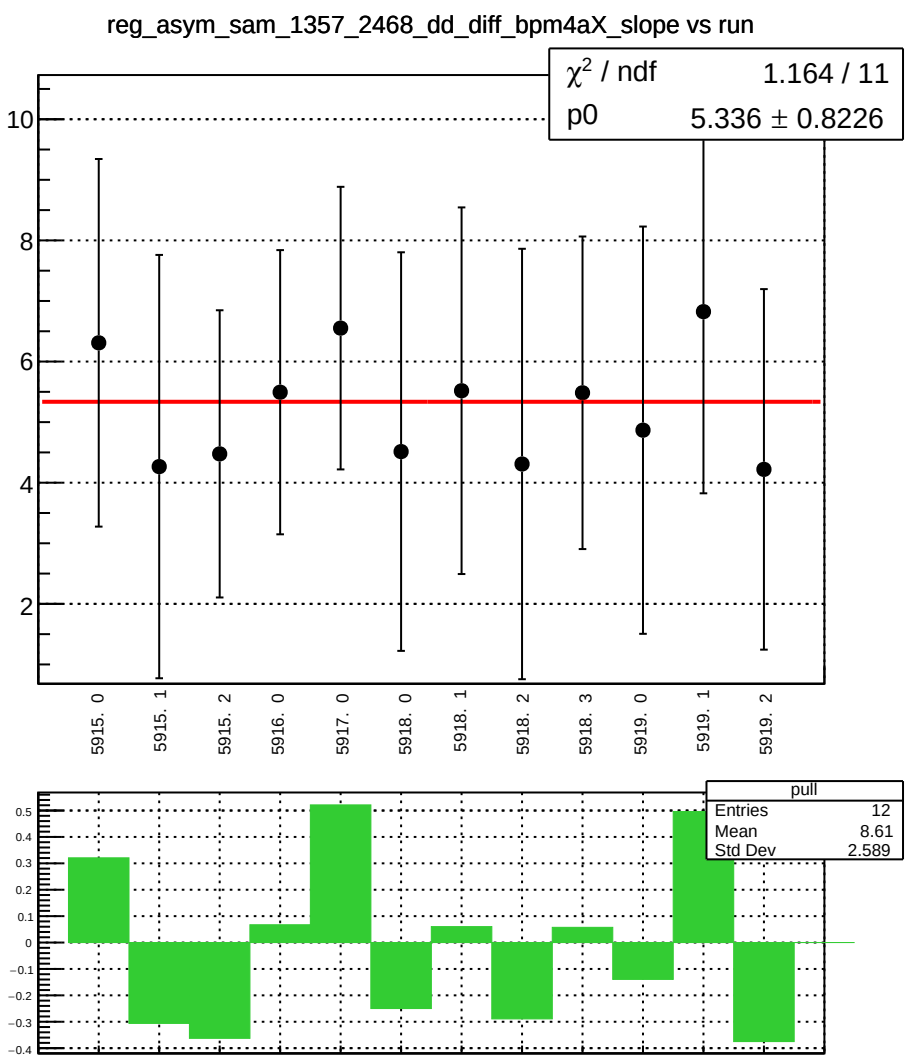

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.1703 / 11
p0 7.581 ± 2.556
20
15
10
5
0
−5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 50.33
Std Dev 44.26
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 12
Mean 0.00441
Std Dev 0.1191
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

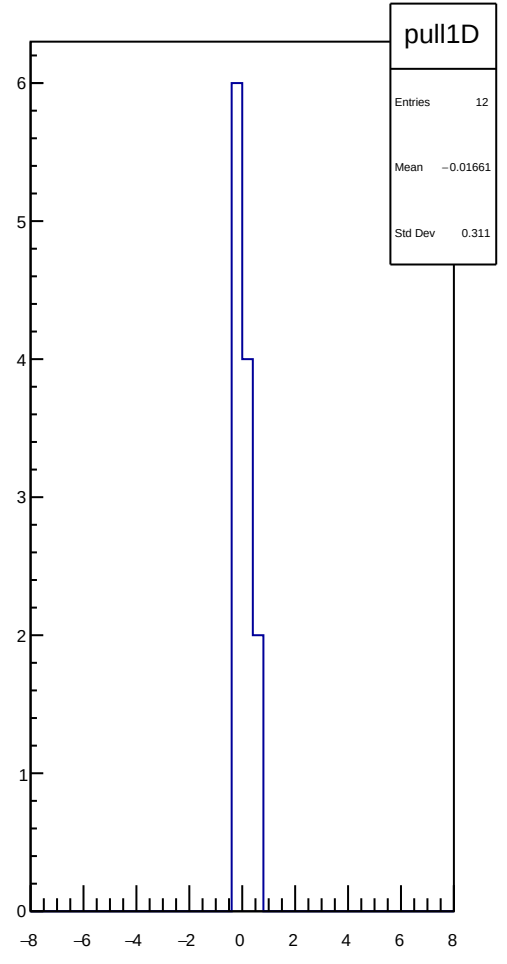

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.877 / 11
p0 −74.02 ± 4.308
−50
−60
−70
−80
−90
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.07622
Std Dev 5.271
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

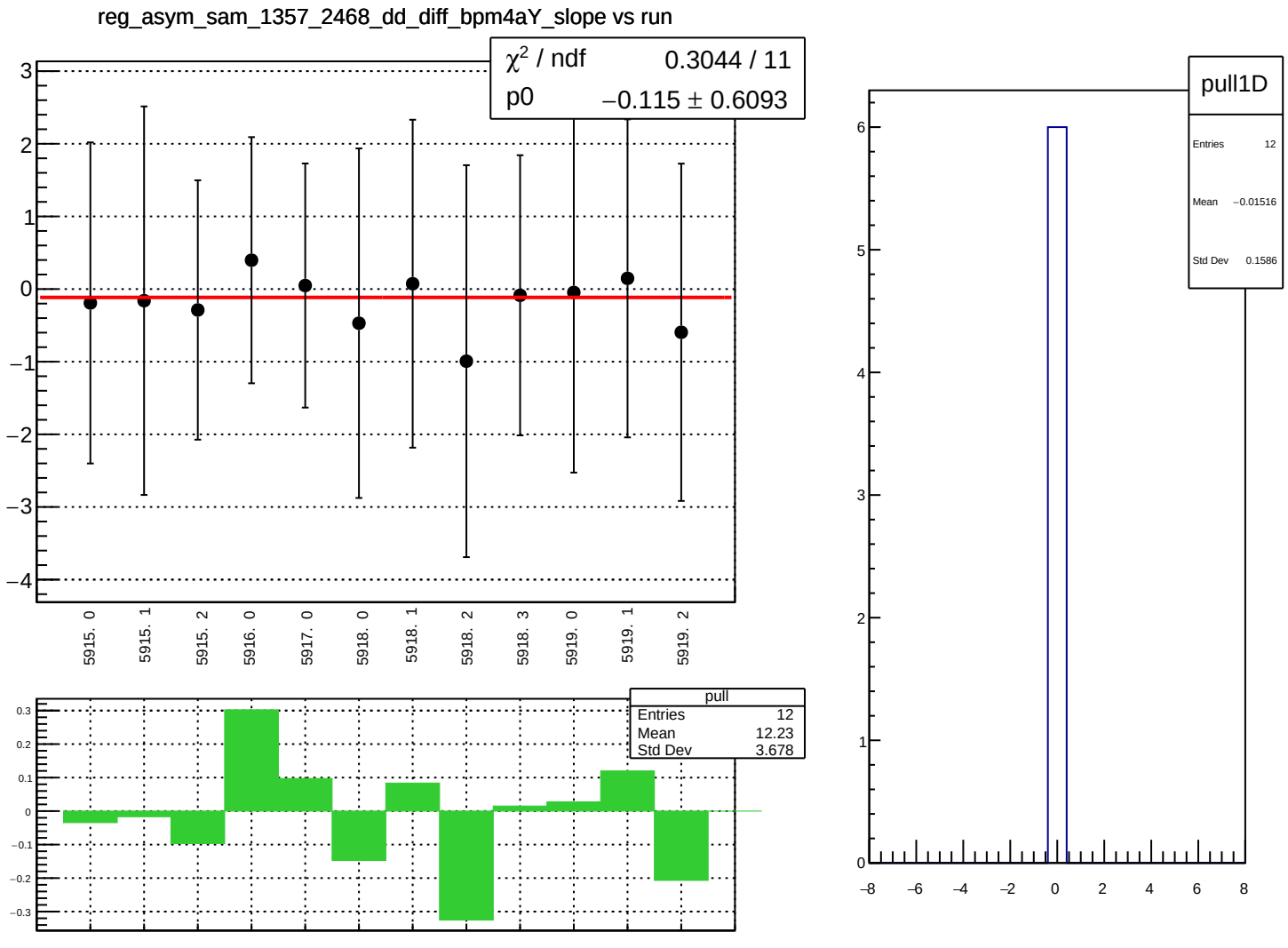

pull1D
Entries 12
Mean −0.005184
Std Dev 0.2703
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

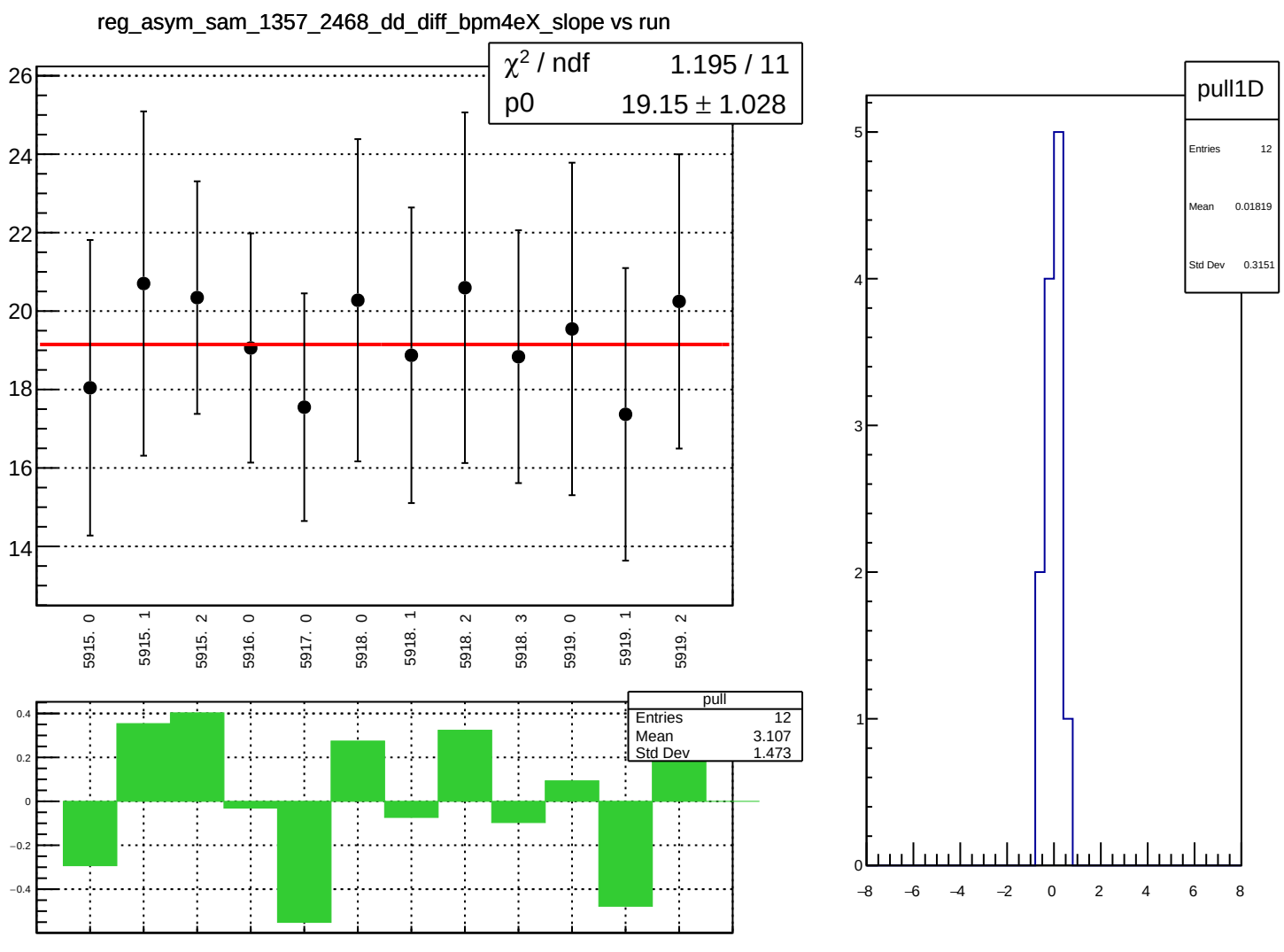

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3024 / 11
p0 37.88 ± 2.786
50
45
40
35
30
25
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 274.1
Std Dev 269.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 12
Mean −0.00109
Std Dev 0.1587
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

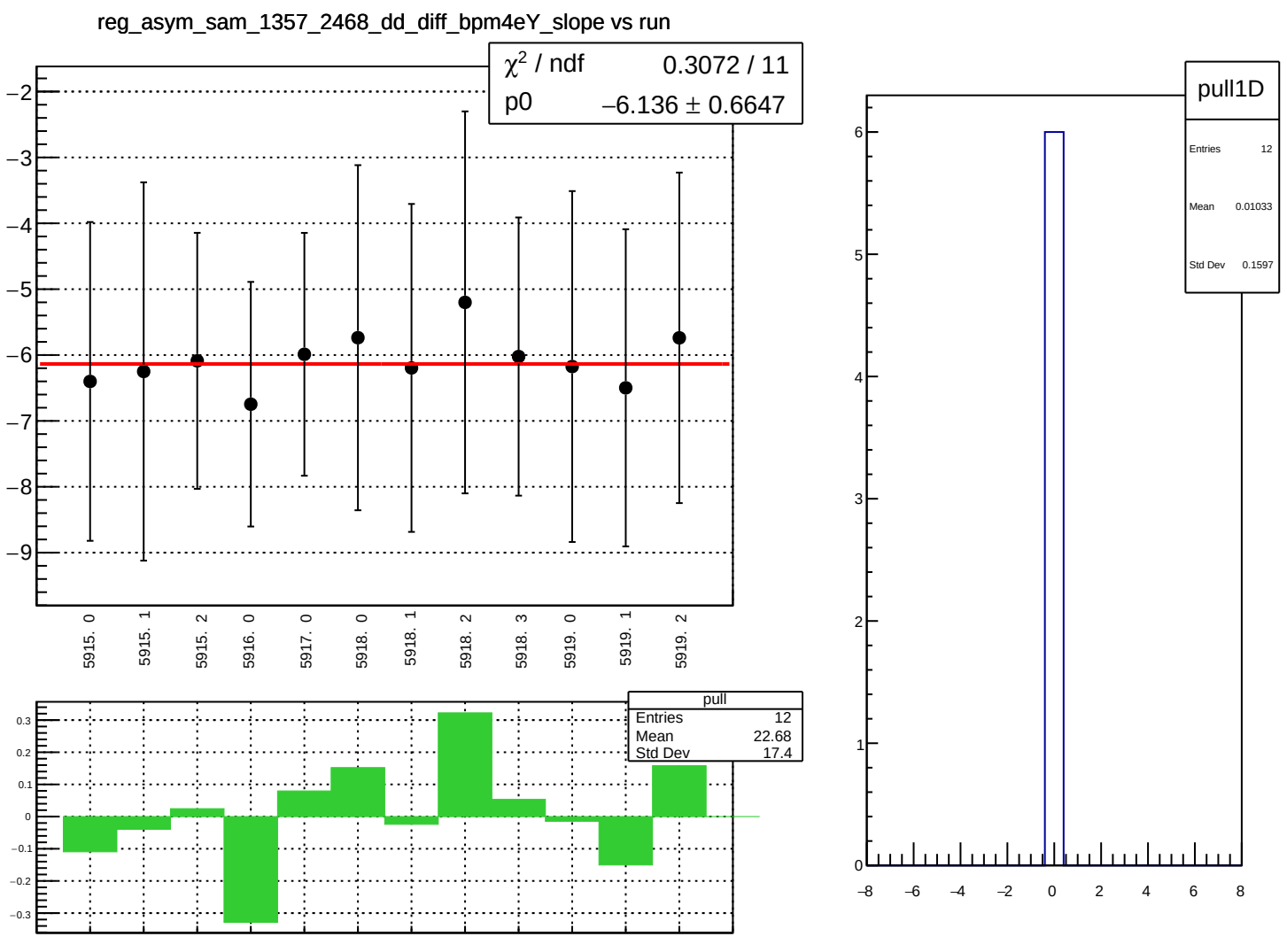

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.263 / 11
p0 −1.442 ± 0.1856
−0.5
−1
−1.5
−2
−2.5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 35.09
Std Dev 28.38
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean 0.01565
Std Dev 0.434
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

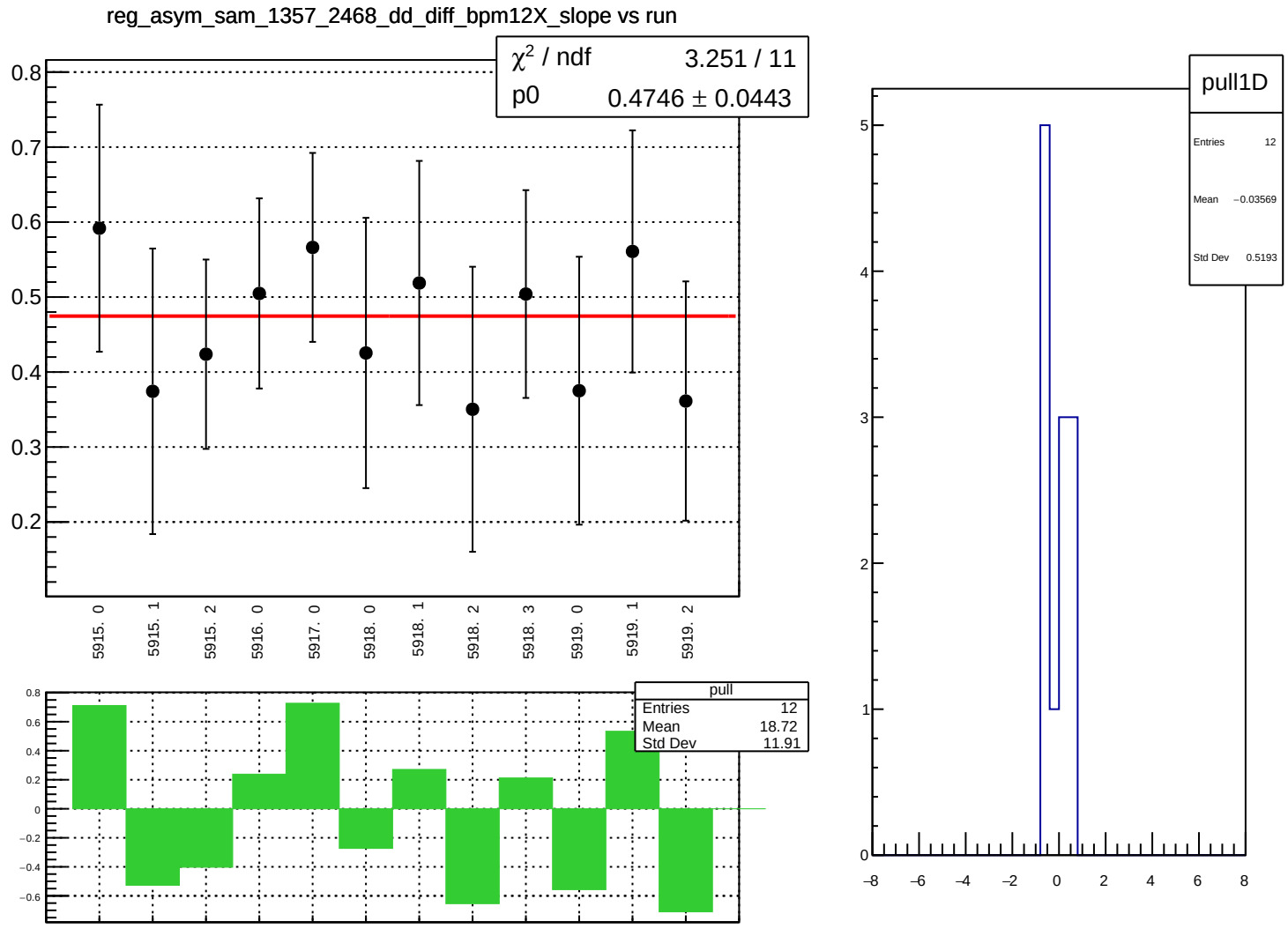

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.164 / 11
p0 5.336 ± 0.8226
10
8
6
4
2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.61
Std Dev 2.589
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

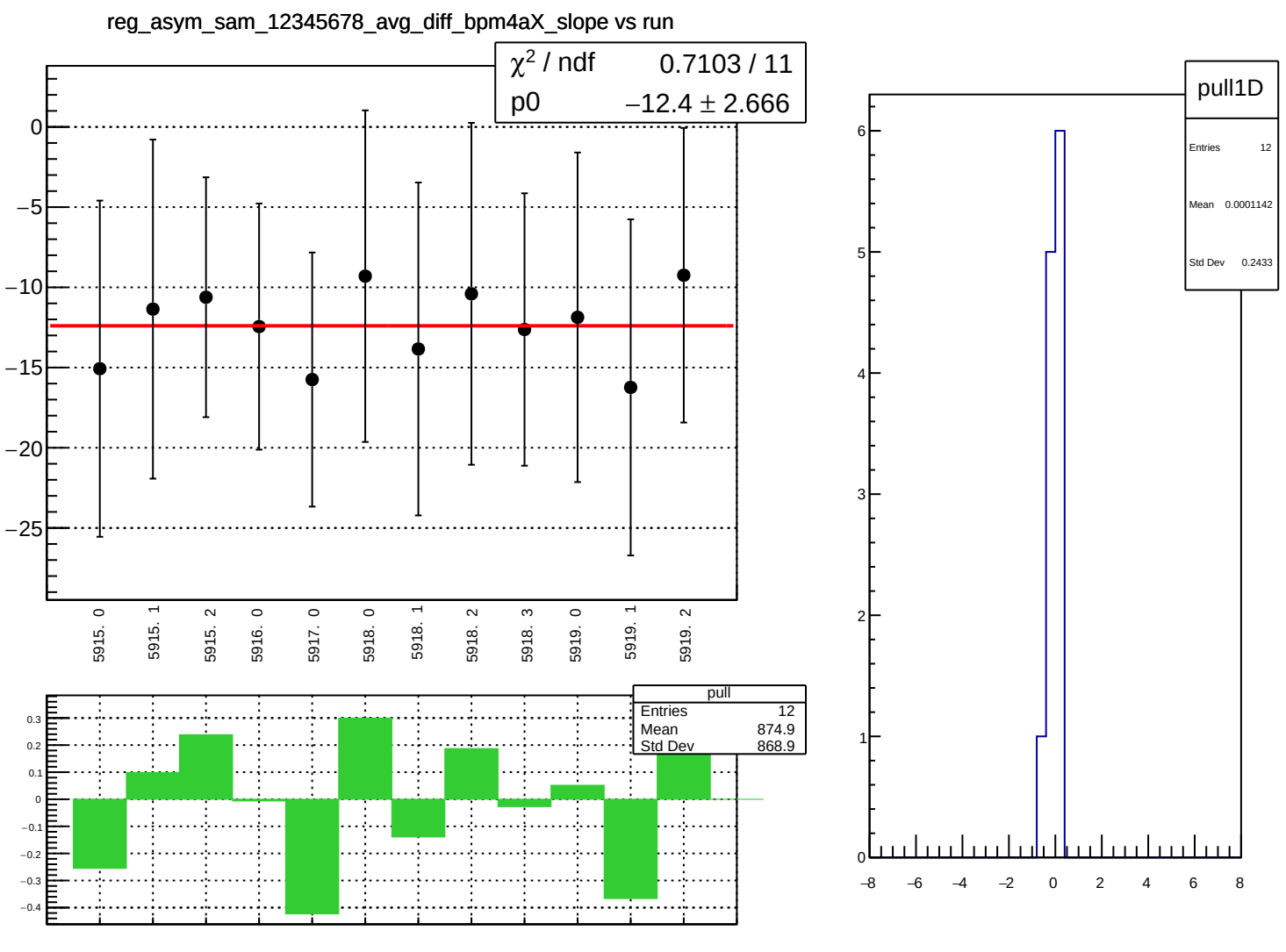

pull1D
Entries 12
Mean −0.01661
Std Dev 0.311
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

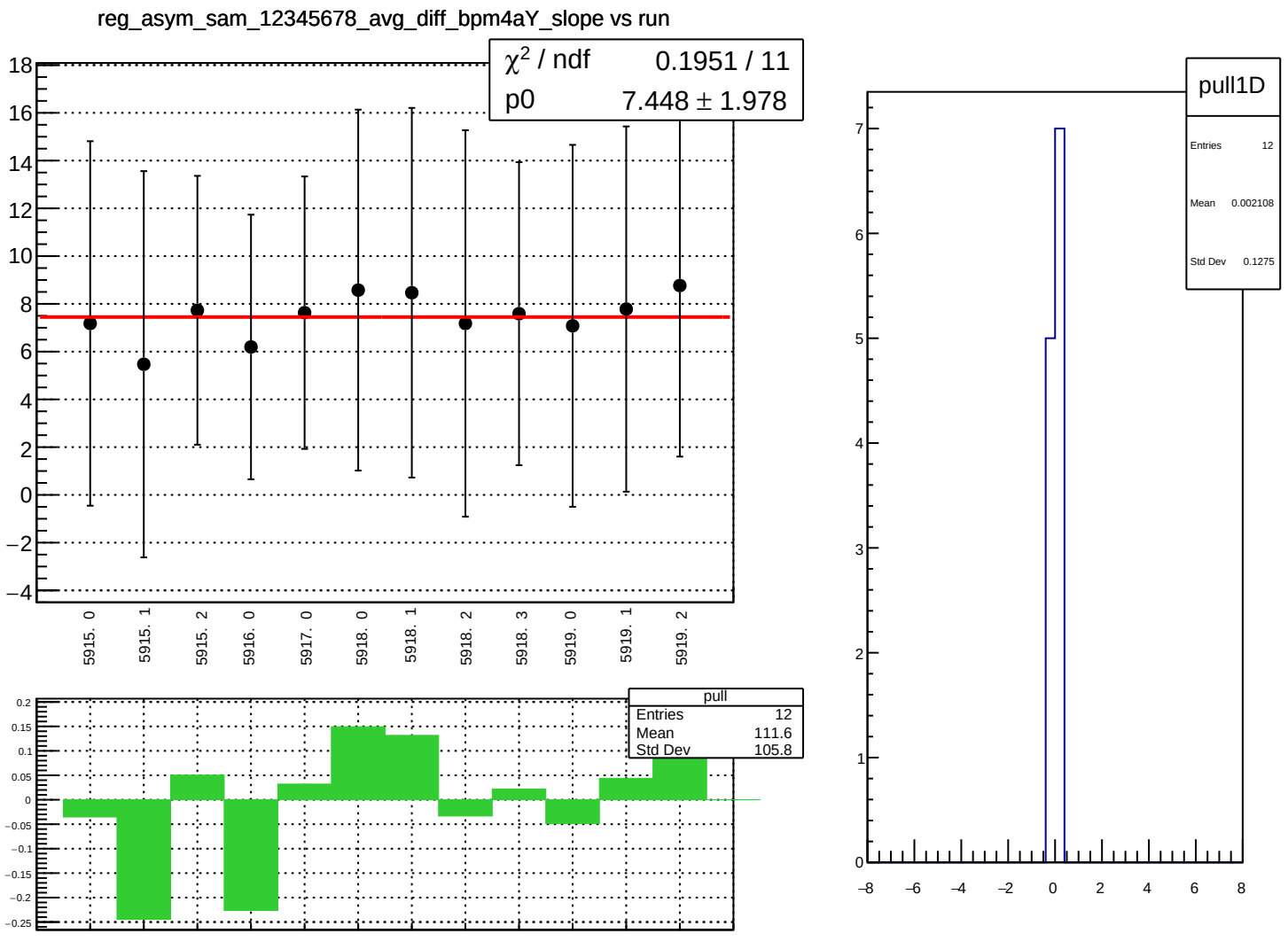

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.3044 / 11
p0 −0.115 ± 0.6093
3
2
1
0
−1
−2
−3
−4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.23
Std Dev 3.678
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.01516
Std Dev 0.1586
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

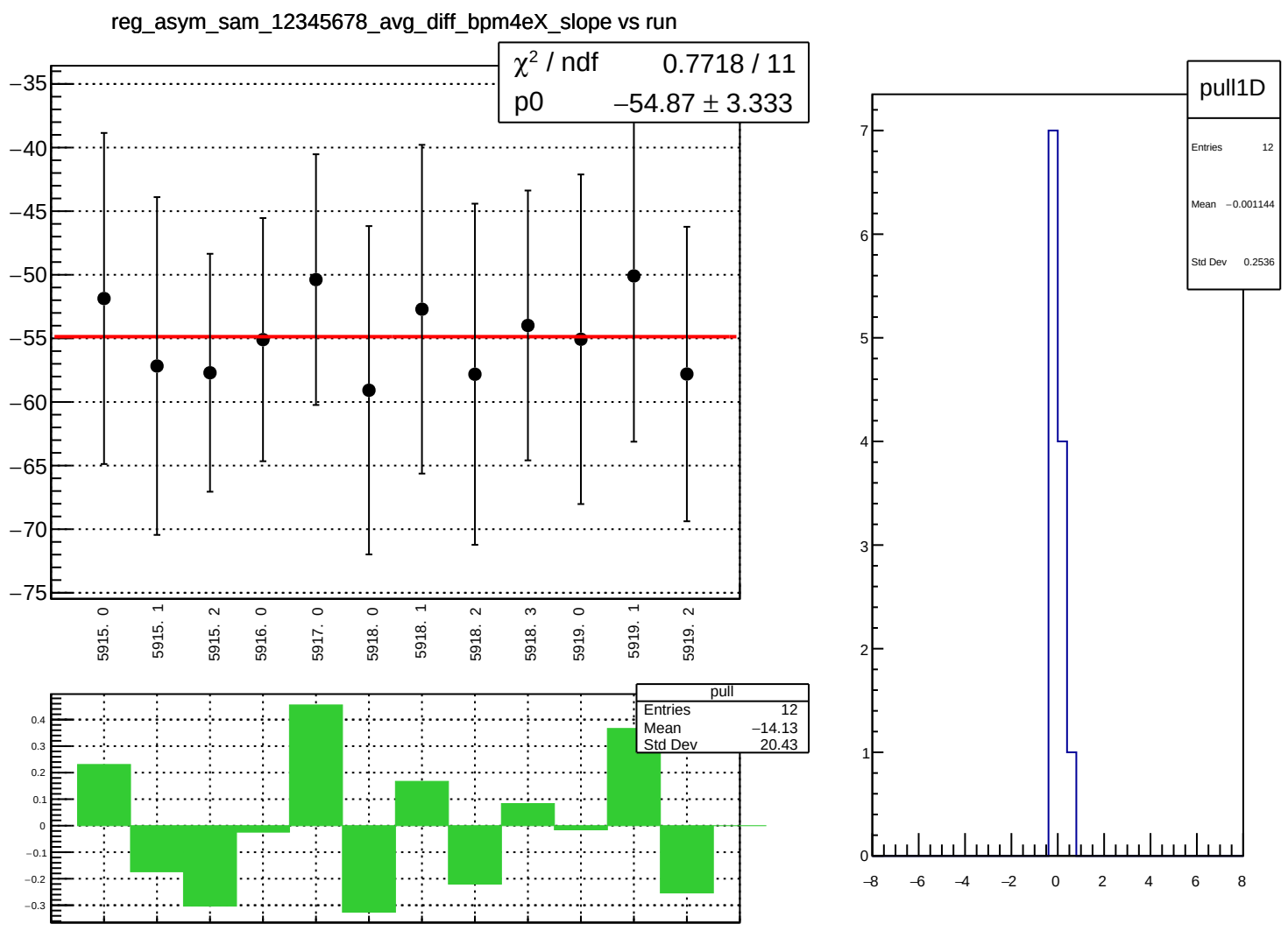

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.195 / 11
p0 19.15 ± 1.028
26
24
22
20
18
16
14
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.107
Std Dev 1.473
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 12
Mean 0.01819
Std Dev 0.3151
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

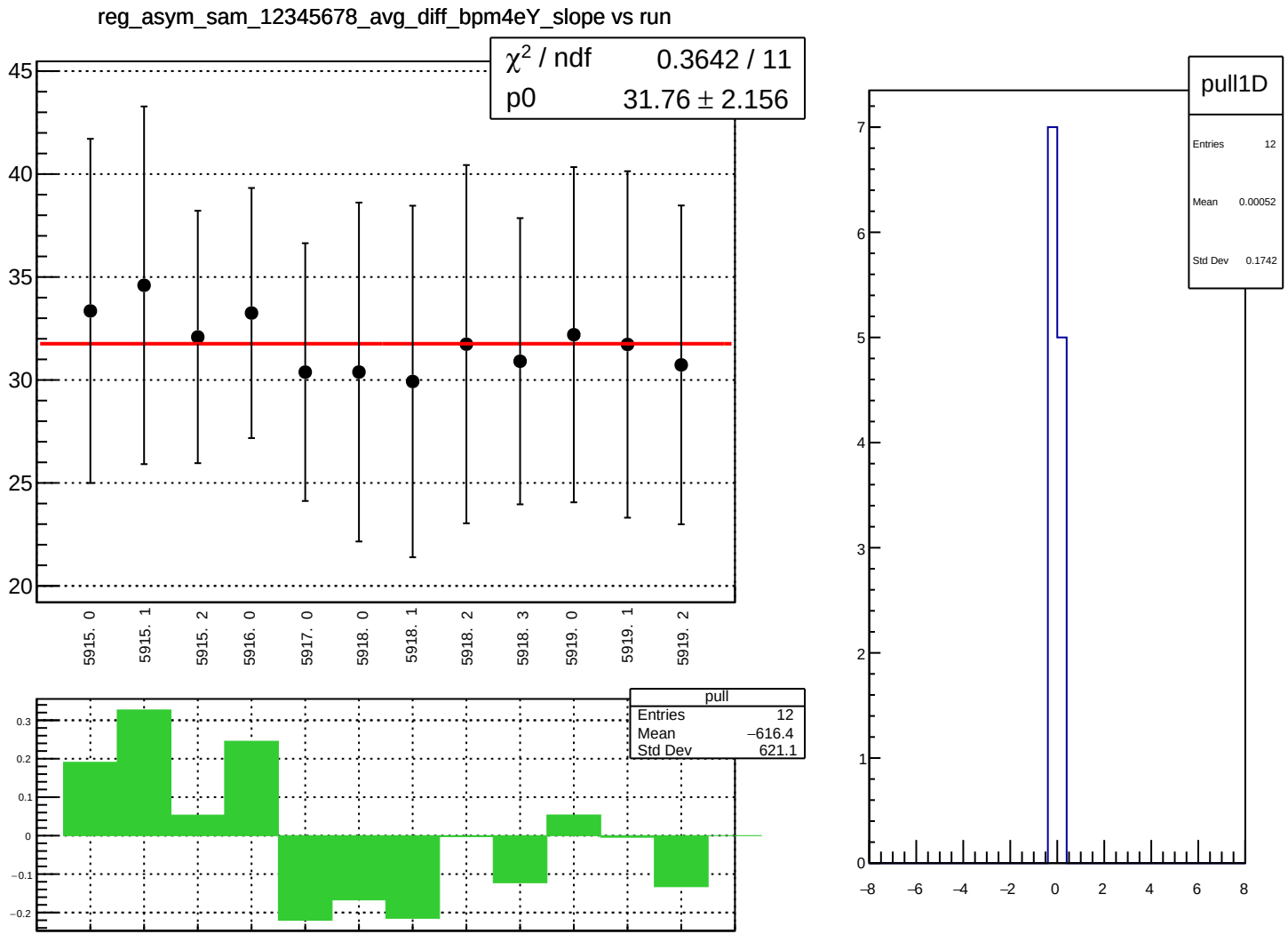

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3072 / 11
p0 −6.136 ± 0.6647
−2
−3
−4
−5
−6
−7
−8
−9
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.68
Std Dev 17.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean 0.01033
Std Dev 0.1597
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

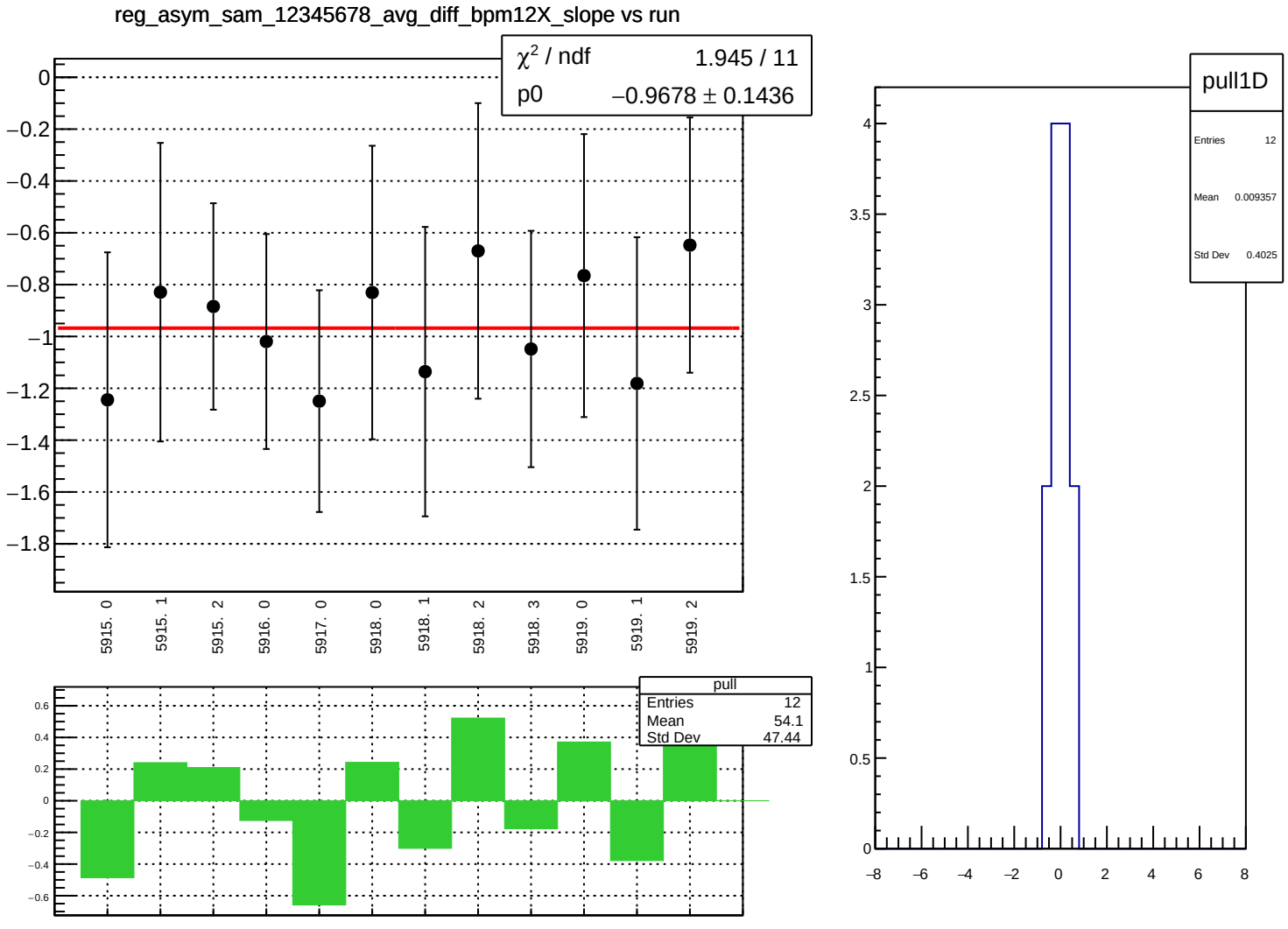

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.251 / 11
p0 0.4746 ± 0.0443
0.8
0.7
0.6
0.5
0.4
0.3
0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 18.72
Std Dev 11.91
pull1D
Entries 12
Mean −0.03569
Std Dev 0.5193

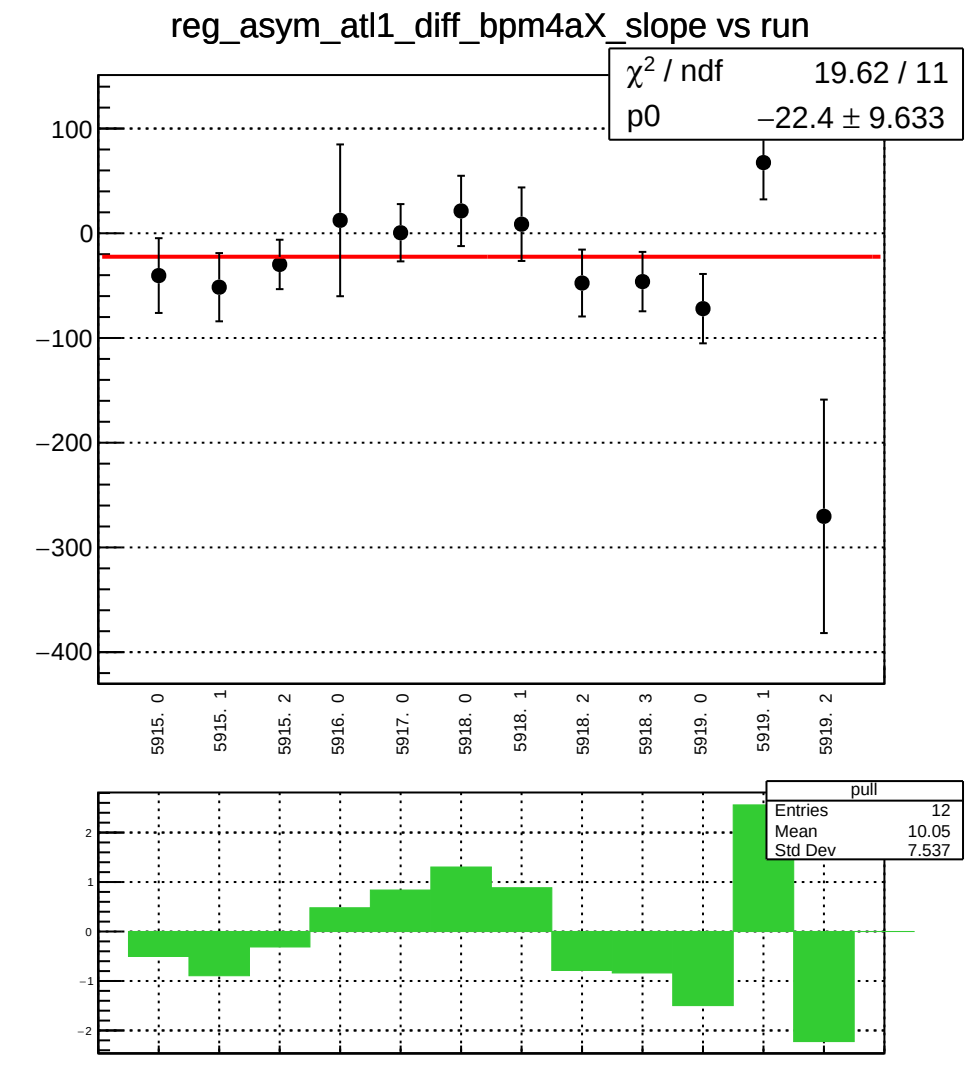

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.7103 / 11
p0 −12.4 ± 2.666
0
−5
−10
−15
−20
−25
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 874.9
Std Dev 868.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 12
Mean 0.0001142
Std Dev 0.2433
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

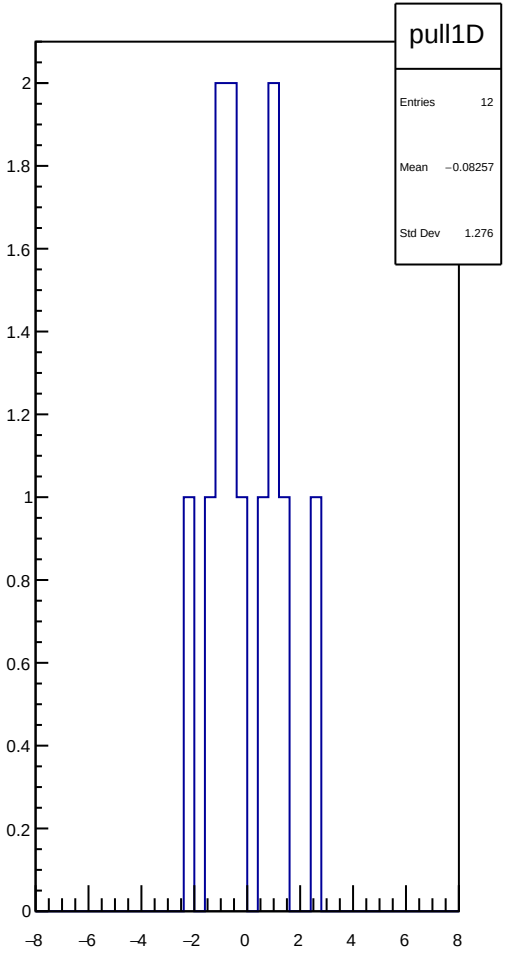

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.1951 / 11
p0 7.448 ± 1.978
18
16
14
12
10
8
6
4
2
0
−2
−4
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 111.6
Std Dev 105.8
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 12
Mean 0.002108
Std Dev 0.1275
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

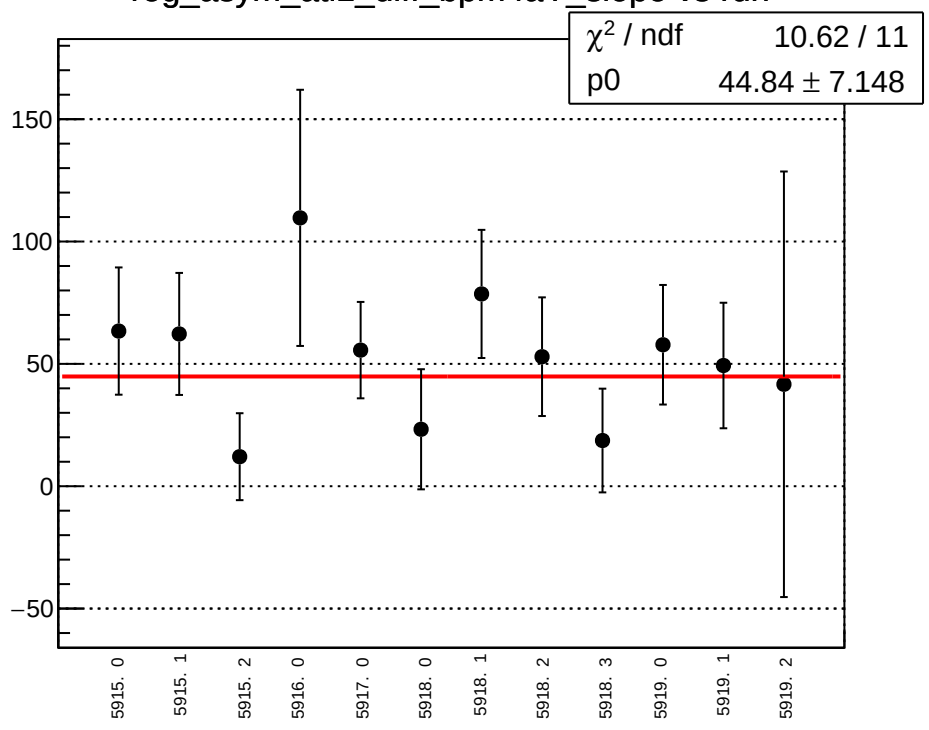

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.7718 / 11
p0 −54.87 ± 3.333
−35
−40
−45
−50
−55
−60
−65
−70
−75
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −14.13
Std Dev 20.43
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 12
Mean −0.001144
Std Dev 0.2536
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

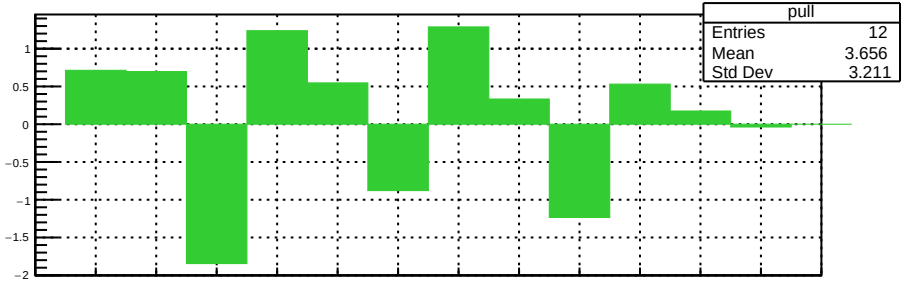

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3642 / 11
p0 31.76 ± 2.156
45
40
35
30
25
20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −616.4
Std Dev 621.1
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 12
Mean 0.00052
Std Dev 0.1742
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

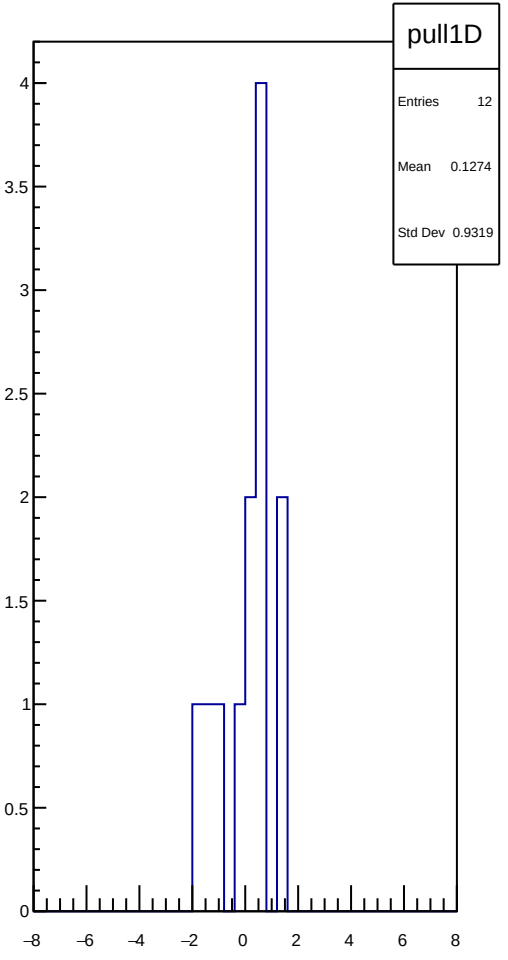

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.945 / 11
p0 −0.9678 ± 0.1436
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 54.1
Std Dev 47.44
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean 0.009357
Std Dev 0.4025
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

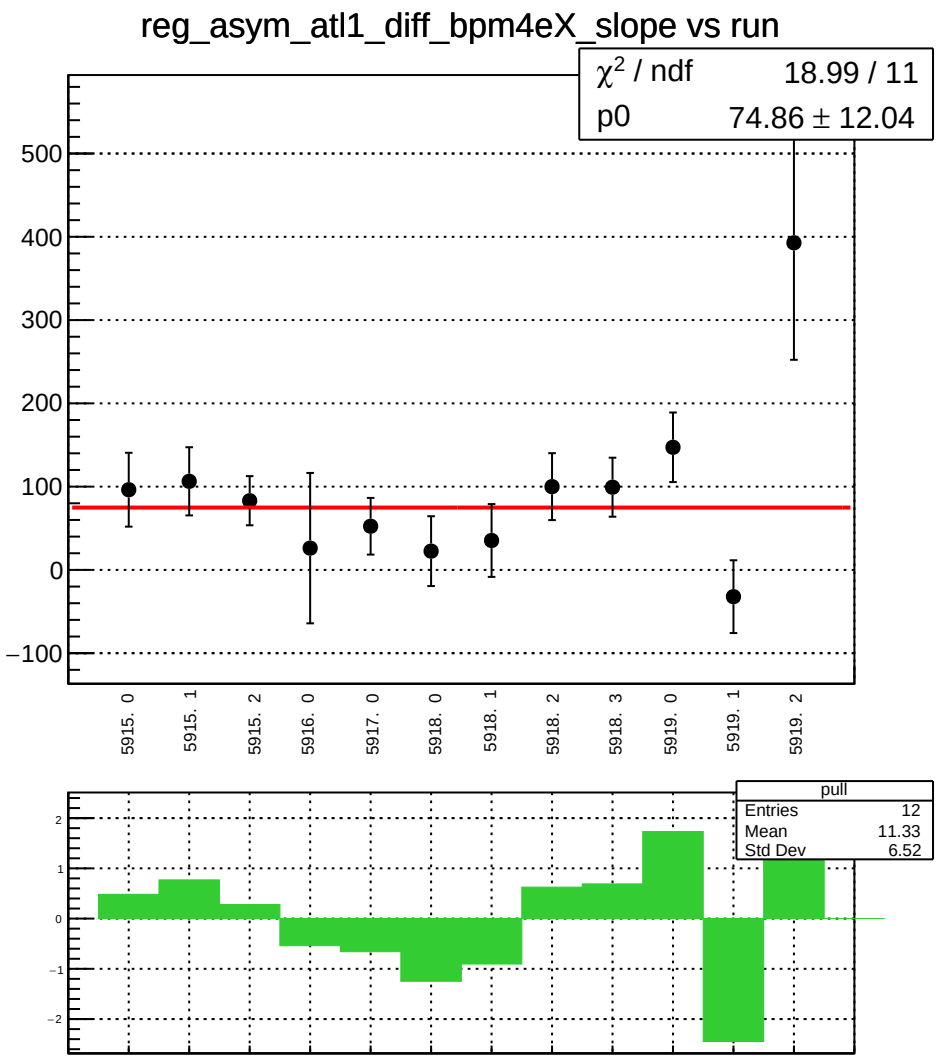

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 19.62 / 11
p0 −22.4 ± 9.633
100
0
−100
−200
−300
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 10.05
Std Dev 7.537
2
1
0
−1
−2

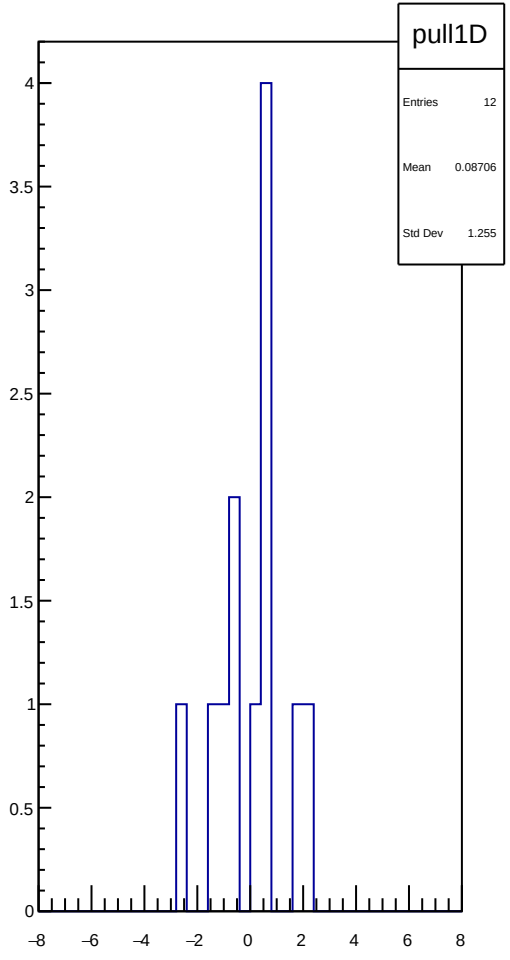

pull1D
Entries 12
Mean −0.08257
Std Dev 1.276
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

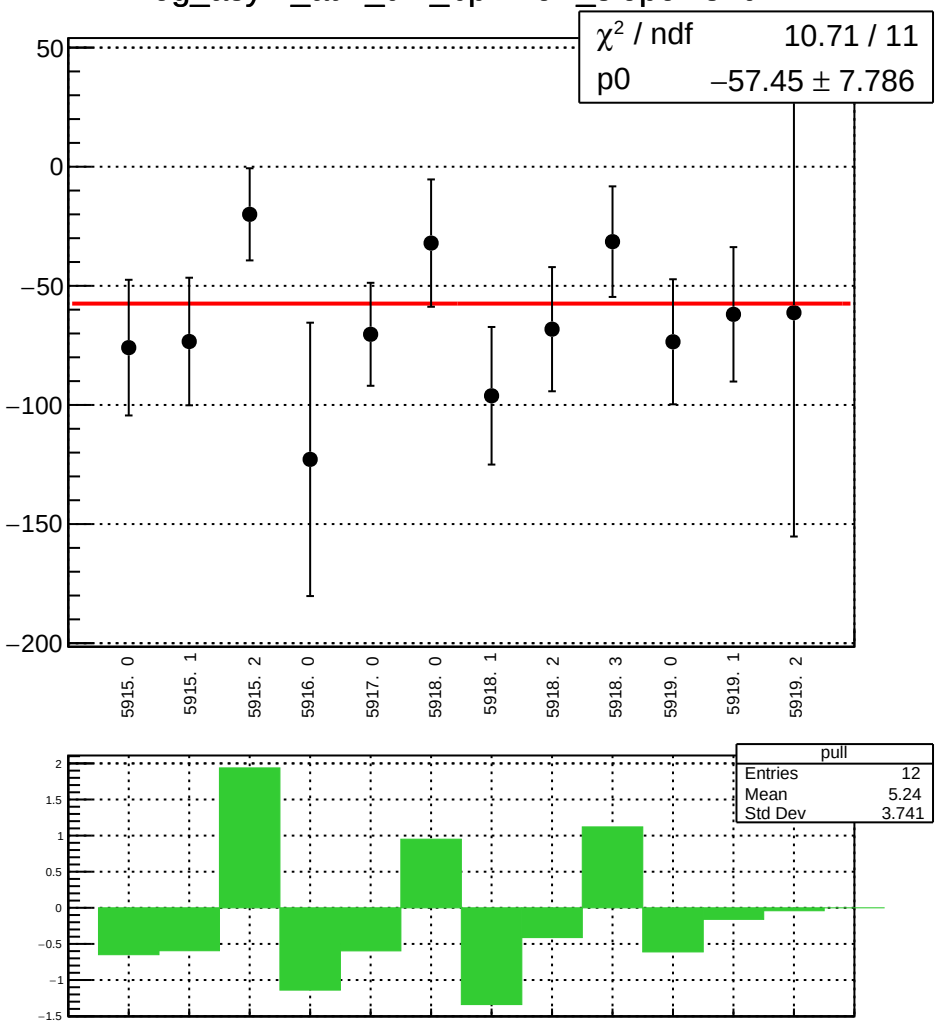

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 10.62 / 11
p0 44.84 ± 7.148
150
100
50
0
−50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

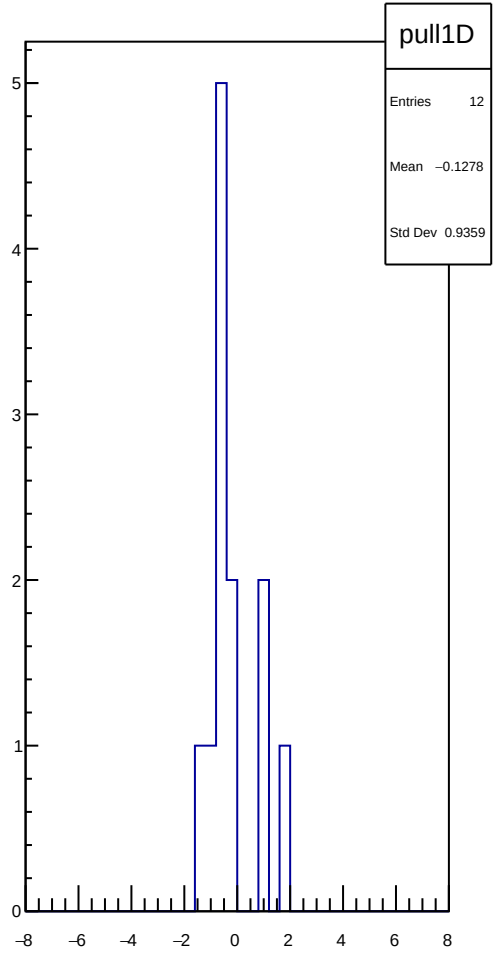

pull
Entries 12
Mean 3.656
Std Dev 3.211
1
0.5
0
−0.5
−1
−1.5
−2

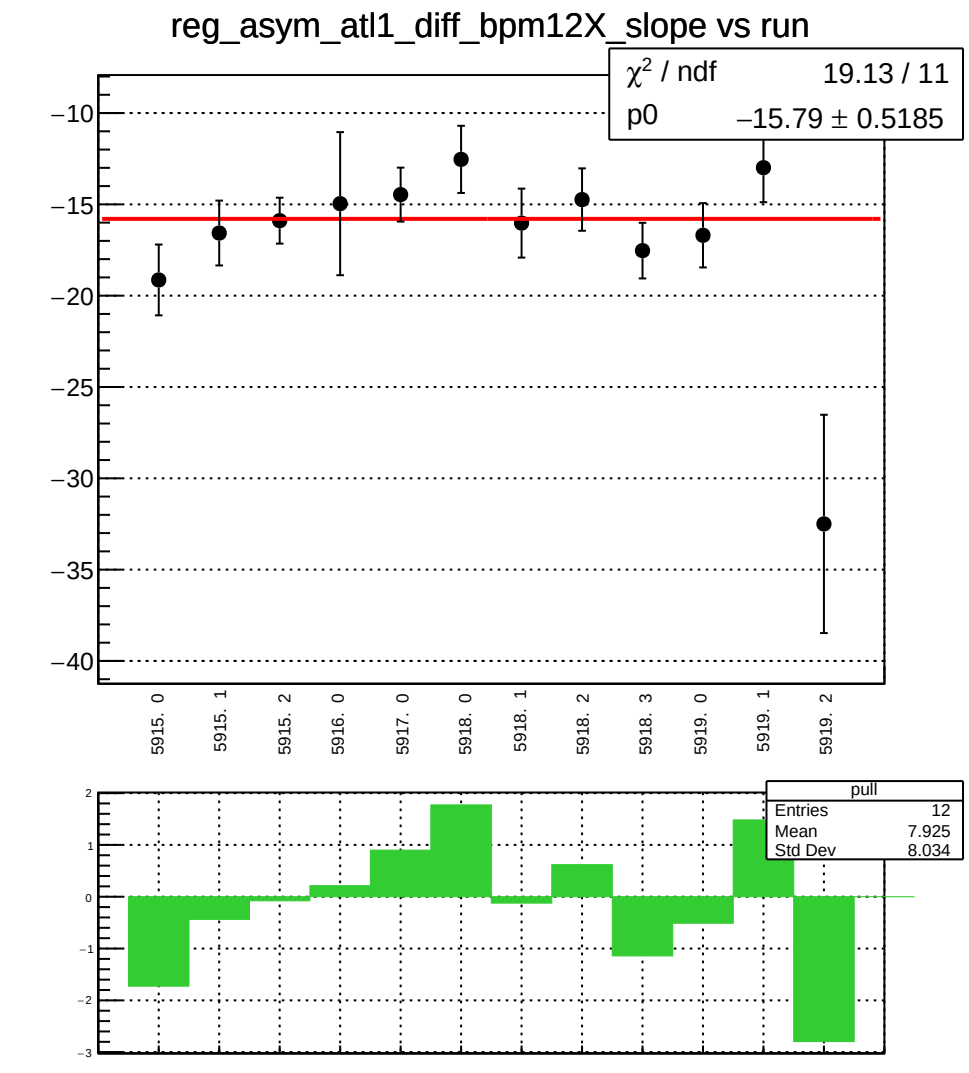

pull1D
Entries 12
Mean 0.1274
Std Dev 0.9319
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

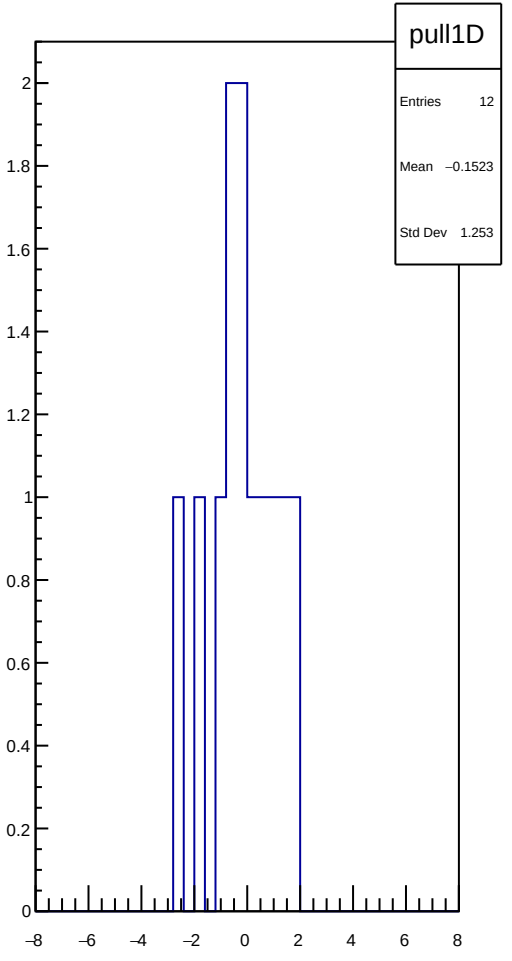

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 18.99 / 11
p0 74.86 ± 12.04
500
400
300
200
100
0
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.33
Std Dev 6.52
2
1
0
−1
−2

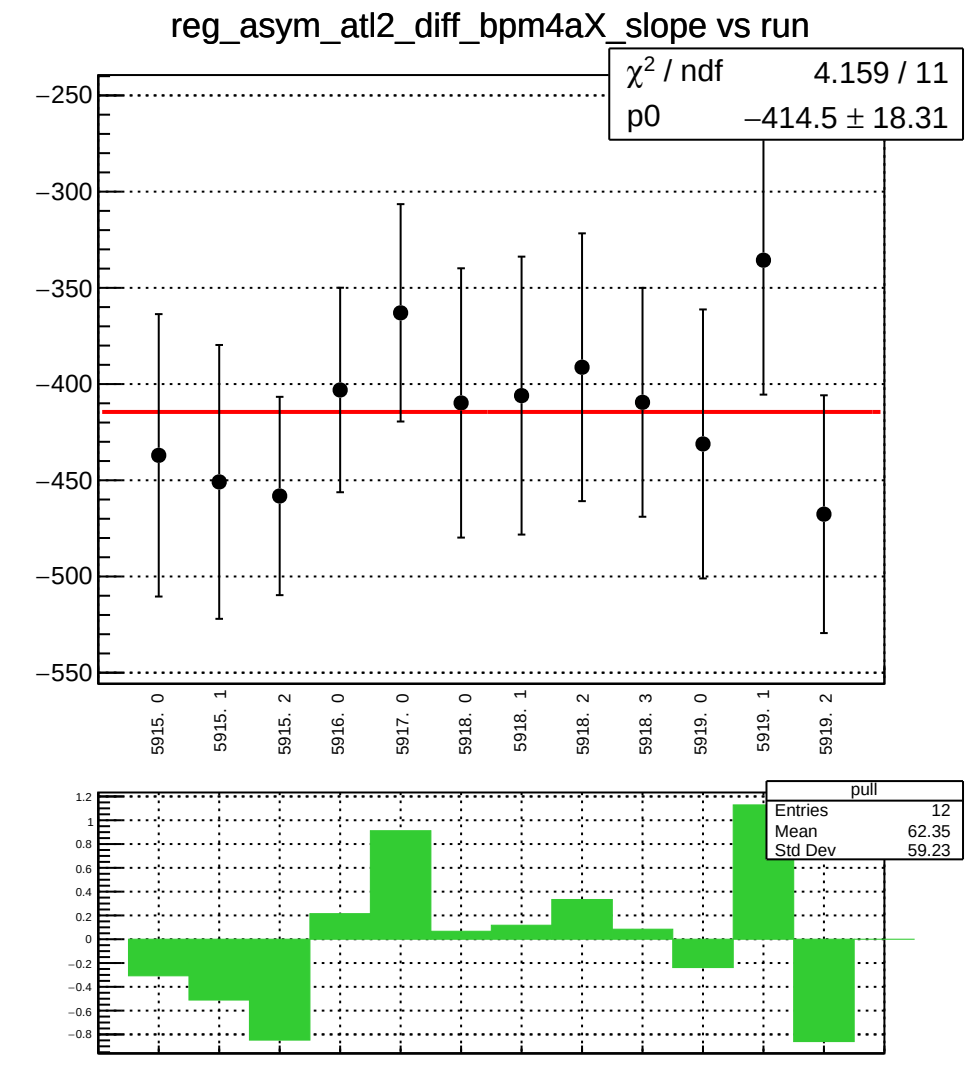

pull1D
Entries 12
Mean 0.08706
Std Dev 1.255
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

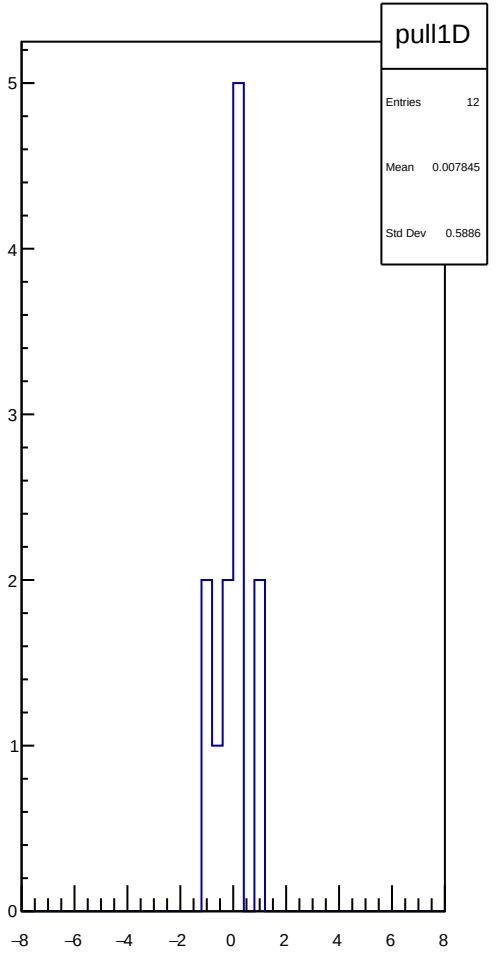

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 10.71 / 11
p0 −57.45 ± 7.786
50
0
−50
−100
−150
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 5.24
Std Dev 3.741
2
1.5
1
0.5
0
−0.5
−1
−1.5

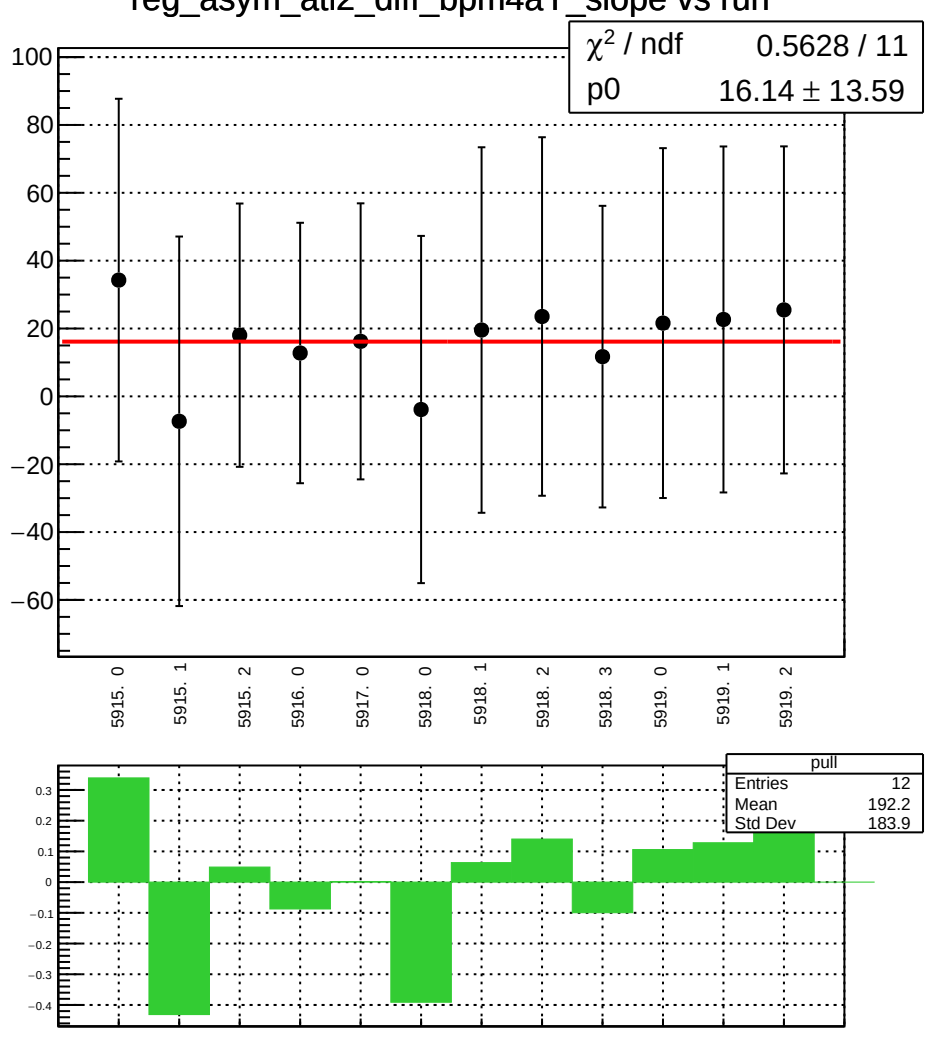

pull1D
Entries 12
Mean −0.1278
Std Dev 0.9359
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

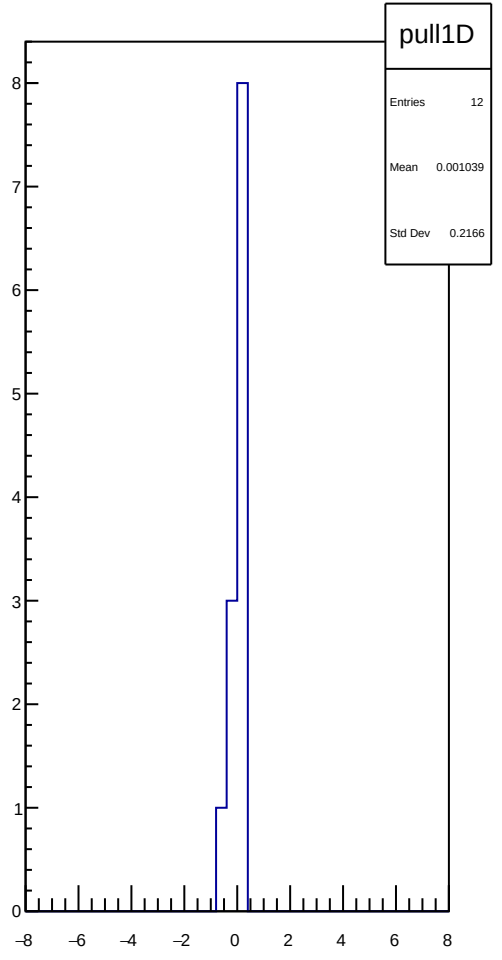

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 19.13 / 11
p0 −15.79 ± 0.5185
−10
−15
−20
−25
−30
−35
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.925
Std Dev 8.034
2
1
0
−1
−2
−3

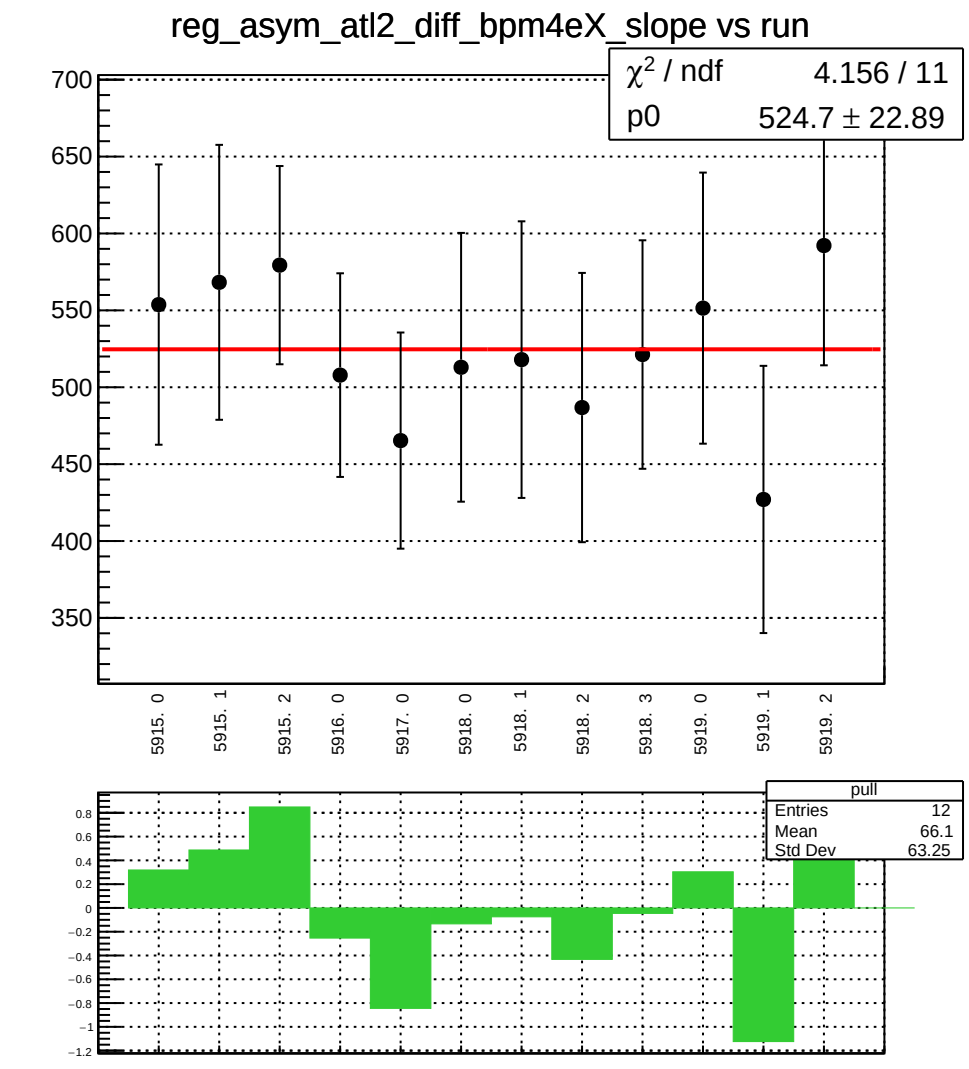

pull1D
Entries 12
Mean −0.1523
Std Dev 1.253
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

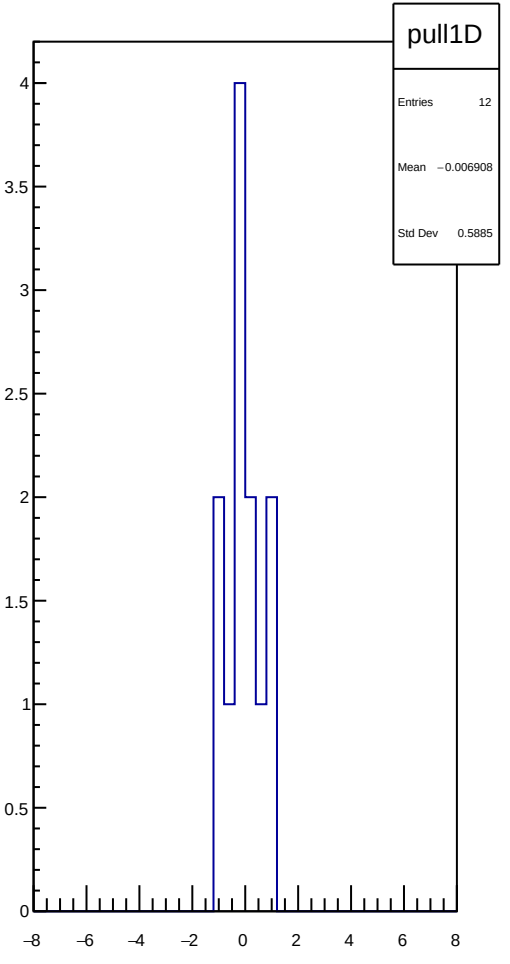

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 4.159 / 11
p0 −414.5 ± 18.31
−250
−300
−350
−400
−450
−500
−550
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 62.35
Std Dev 59.23
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

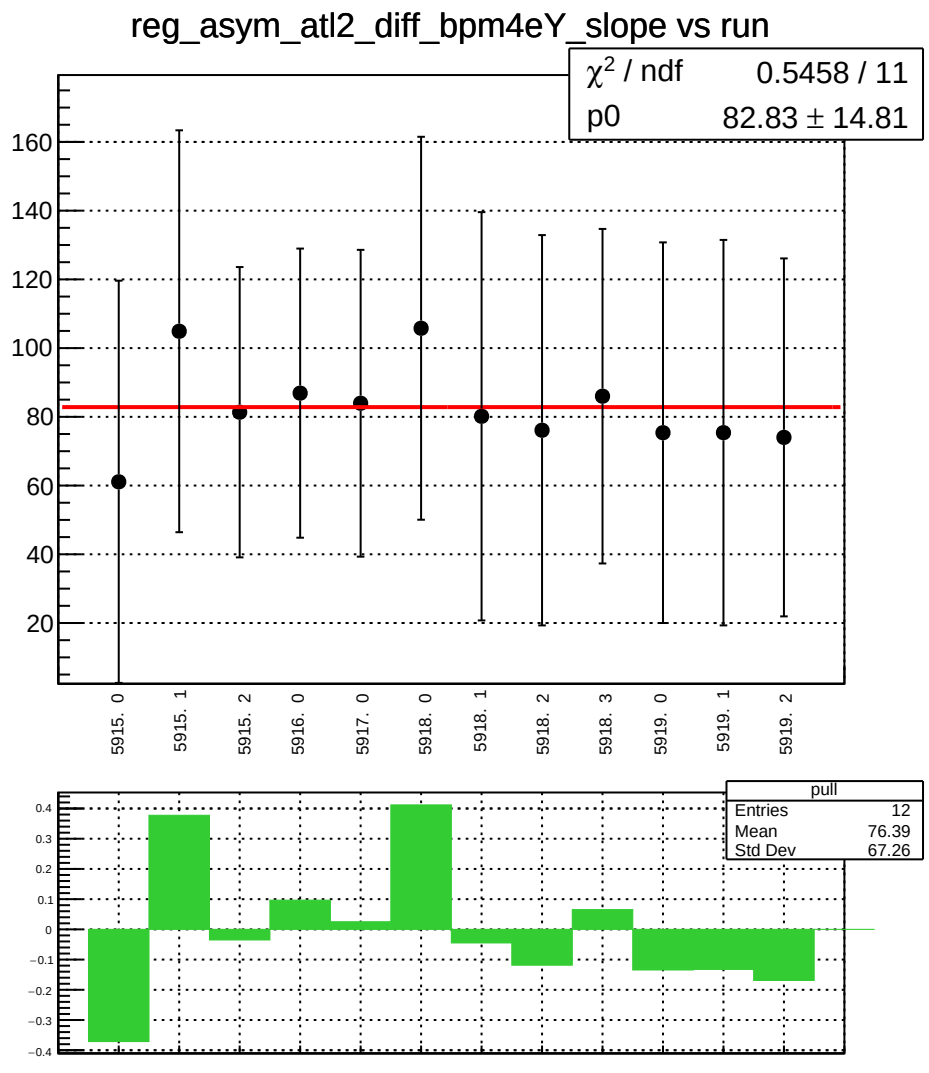

pull1D
Entries 12
Mean 0.007845
Std Dev 0.5886
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

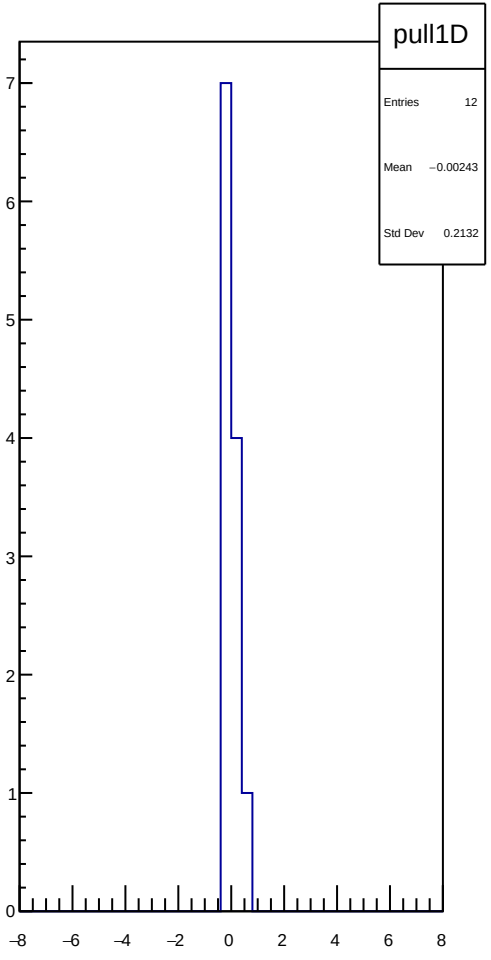

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 0.5628 / 11
p0 16.14 ± 13.59
100
80
60
40
20
0
−20
−40
−60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 192.2
Std Dev 183.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

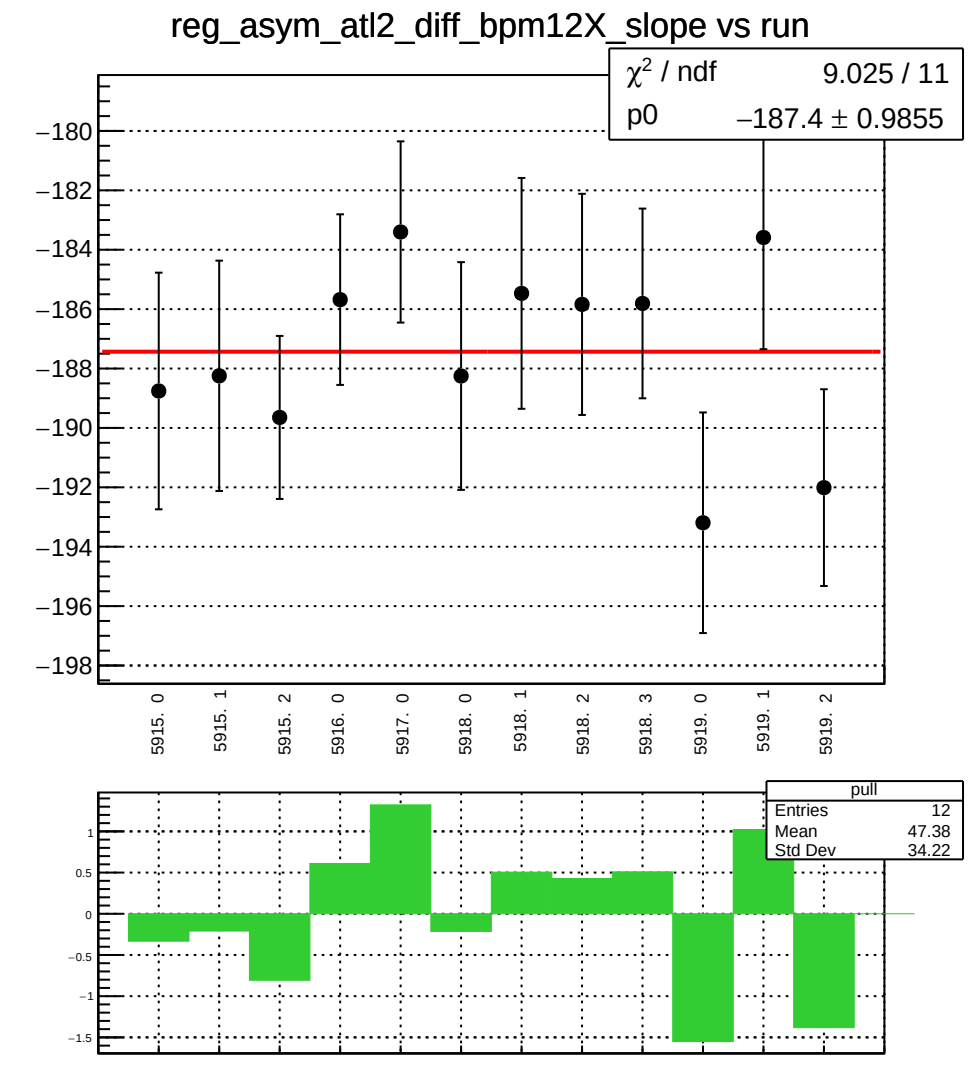

pull1D
Entries 12
Mean 0.001039
Std Dev 0.2166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

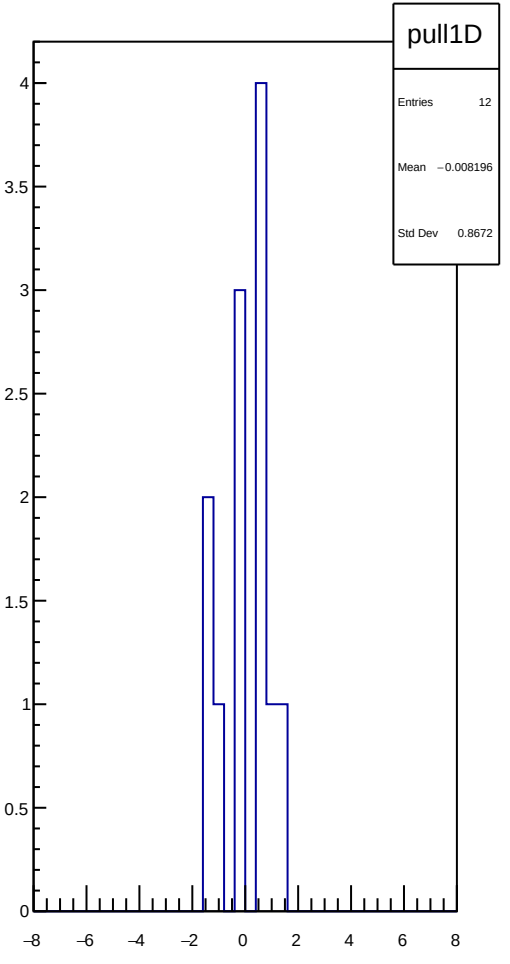

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 4.156 / 11
p0 524.7 ± 22.89
700
650
600
550
500
450
400
350
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 66.1
Std Dev 63.25
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

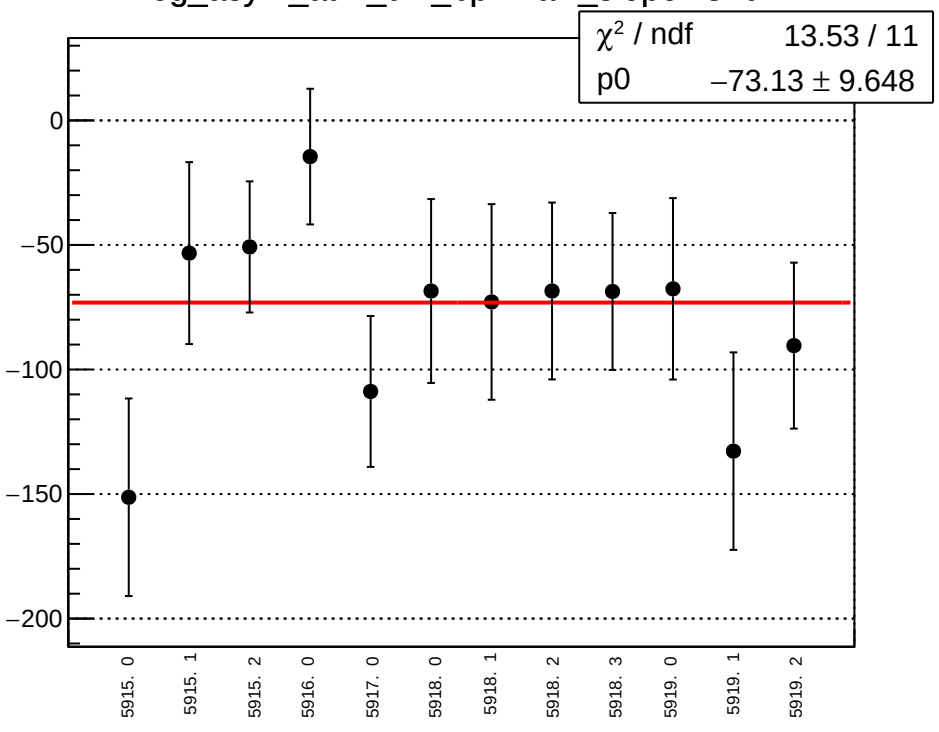

pull1D
Entries 12
Mean −0.006908
Std Dev 0.5885
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

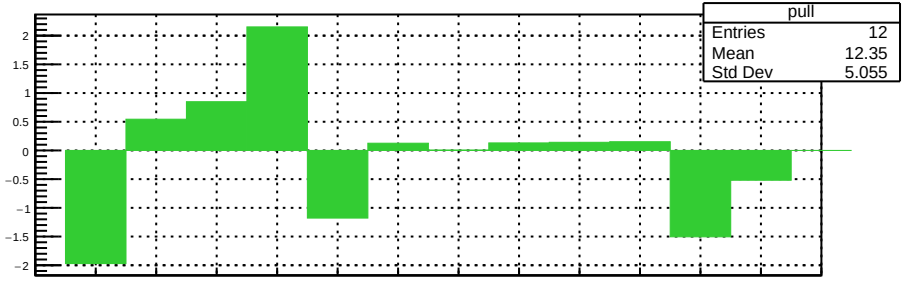

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 0.5458 / 11
p0 82.83 ± 14.81
160
140
120
100
80
60
40
20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 76.39
Std Dev 67.26
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

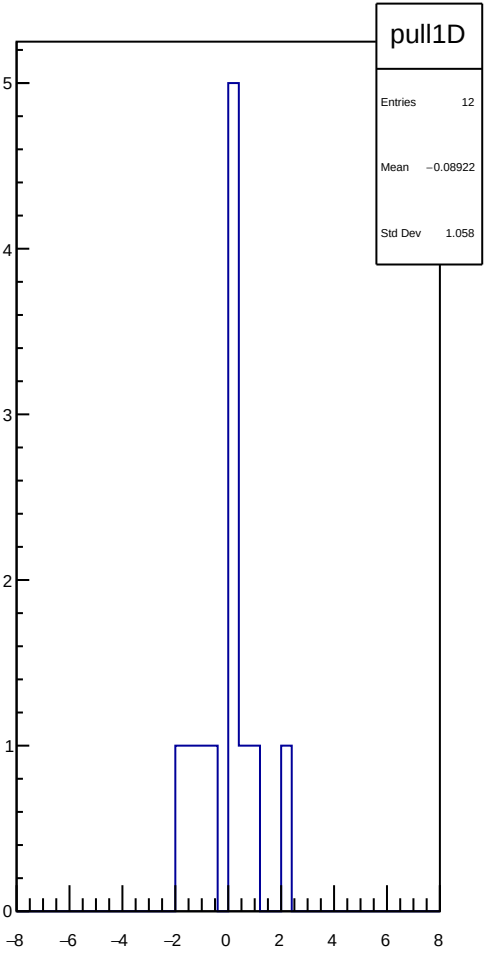

pull1D
Entries 12
Mean −0.00243
Std Dev 0.2132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

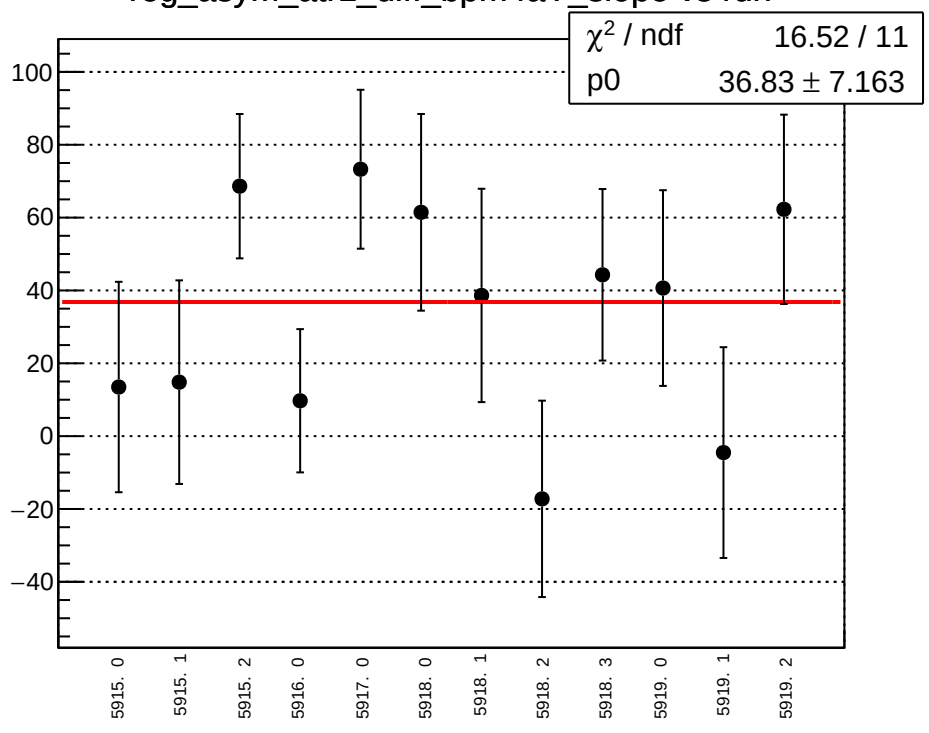

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 9.025 / 11
p0 −187.4 ± 0.9855
−180
−182
−184
−186
−188
−190
−192
−194
−196
−198
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 47.38
Std Dev 34.22
1
0.5
0
−0.5
−1
−1.5

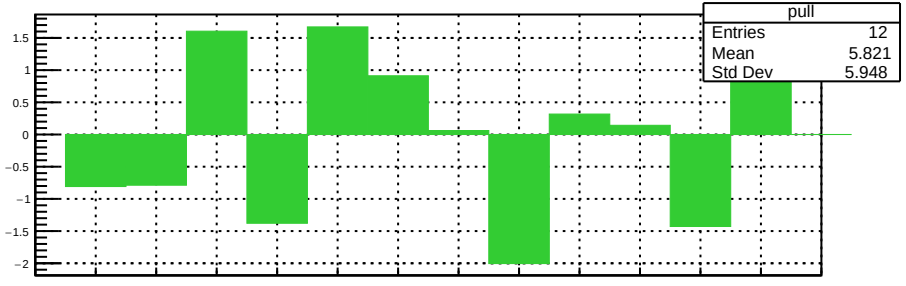

pull1D
Entries 12
Mean −0.008196
Std Dev 0.8672
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

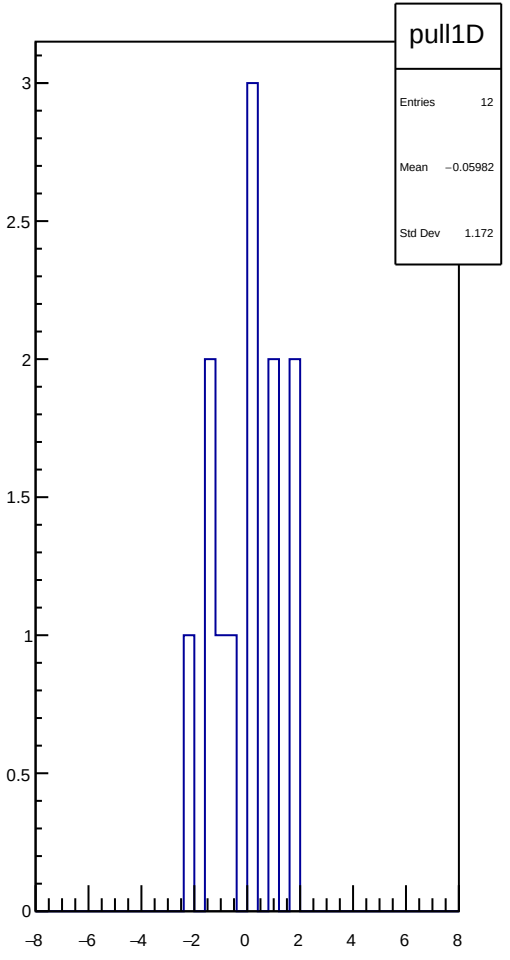

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 13.53 / 11
p0 −73.13 ± 9.648
0
−50
−100
−150
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

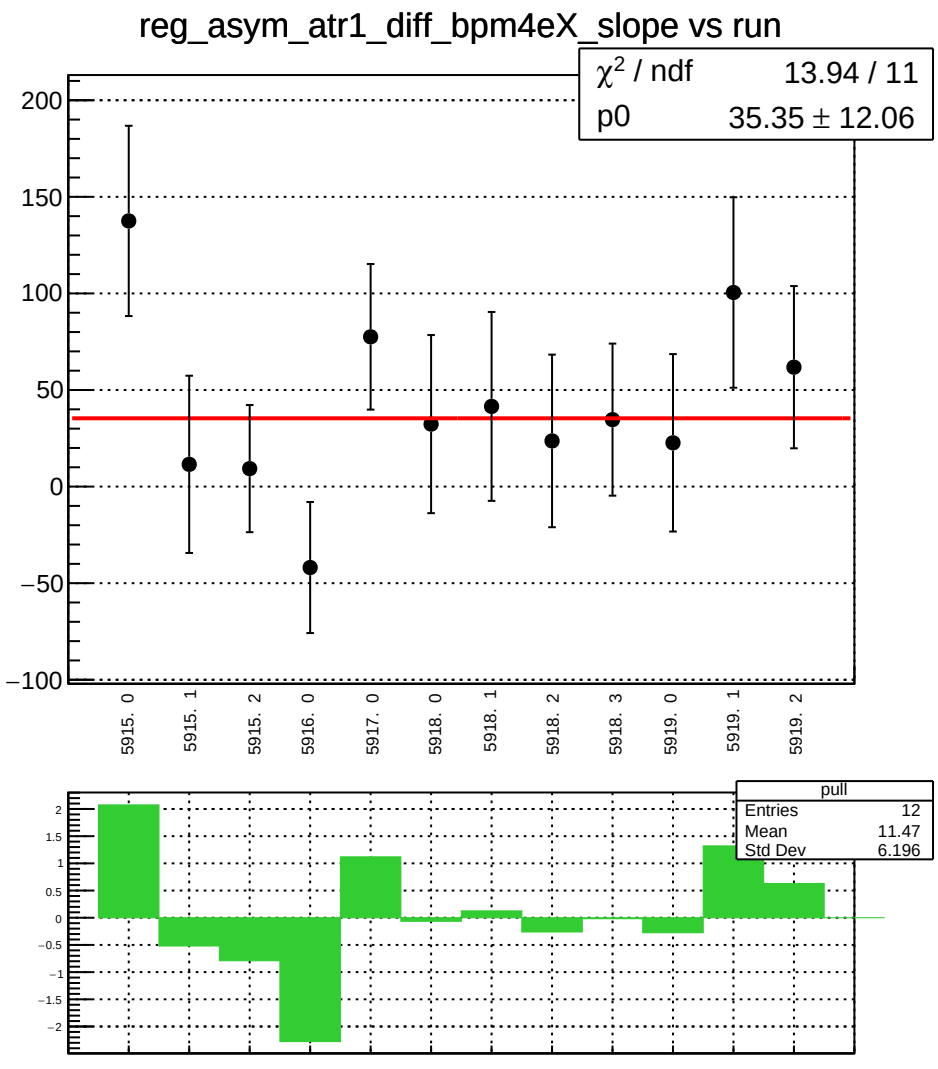

pull
Entries 12
Mean 12.35
Std Dev 5.055
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

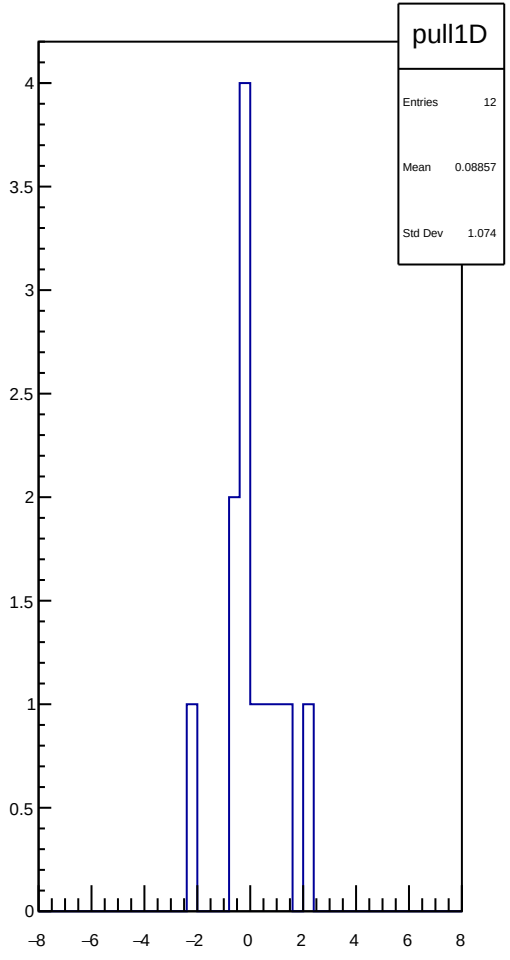

pull1D
Entries 12
Mean −0.08922
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

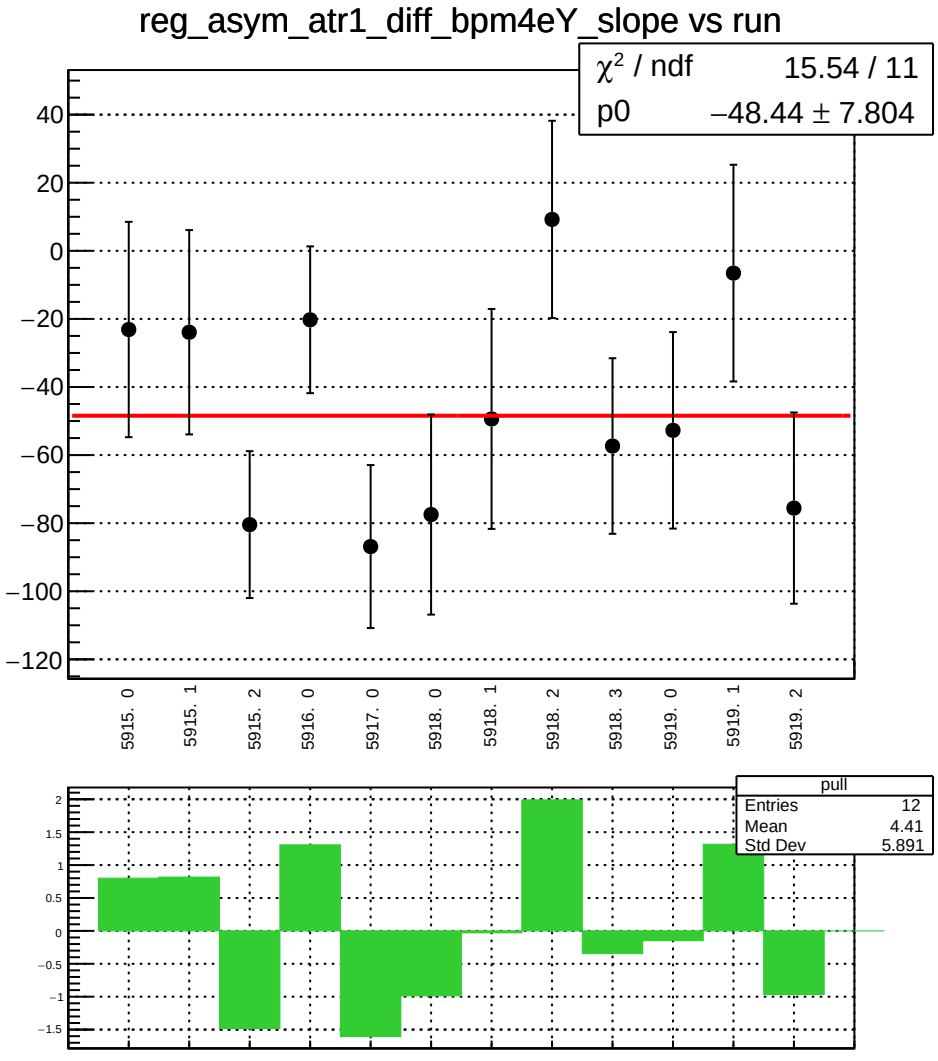

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 16.52 / 11
p0 36.83 ± 7.163
100
80
60
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

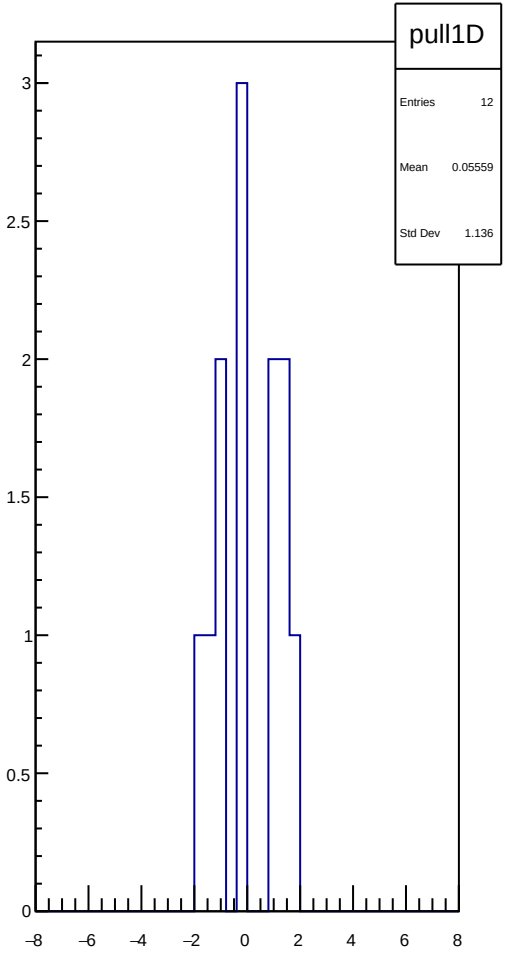

pull
Entries 12
Mean 5.821
Std Dev 5.948
1.5
1
0.5
0
−0.5
−1
−1.5
−2

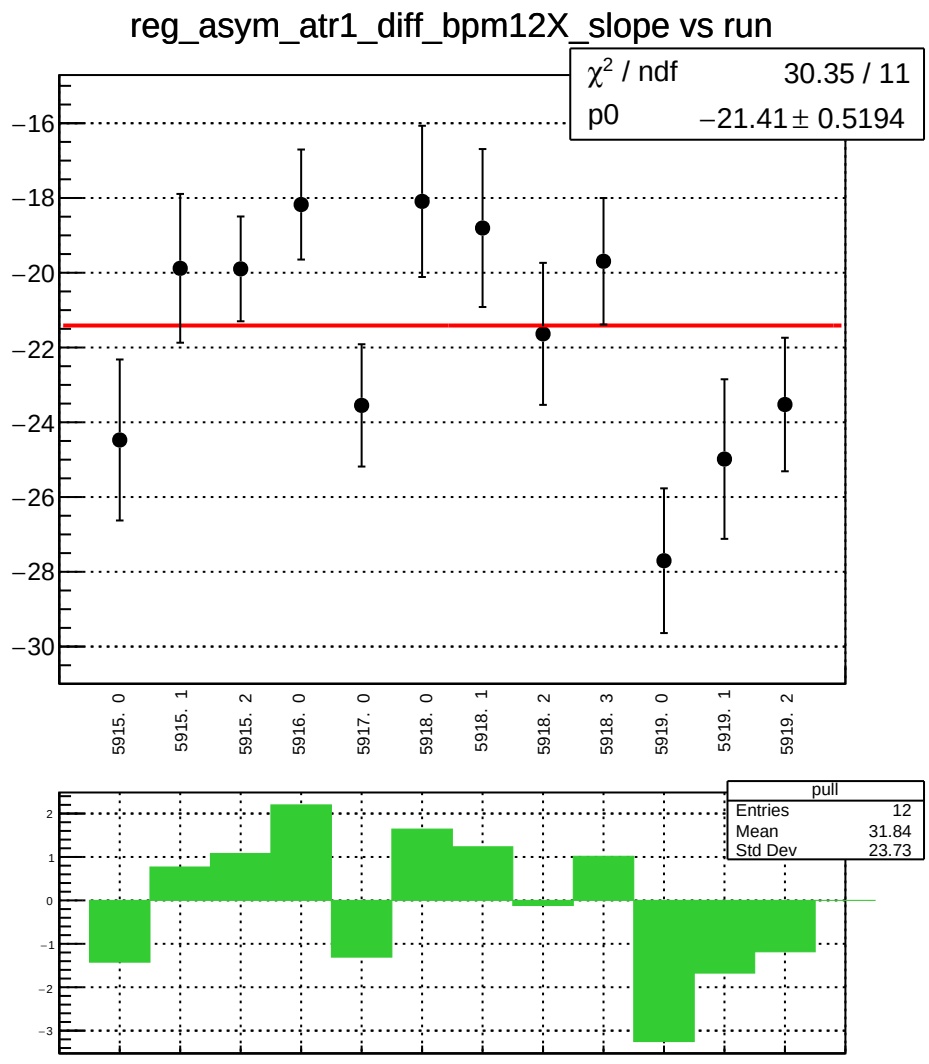

pull1D
Entries 12
Mean −0.05982
Std Dev 1.172
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

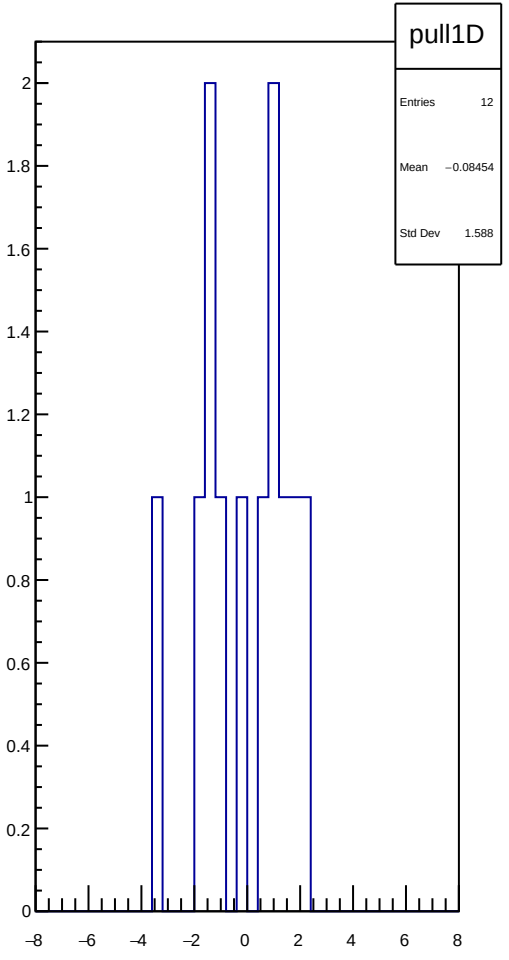

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 13.94 / 11
p0 35.35 ± 12.06
200
150
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.47
Std Dev 6.196
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

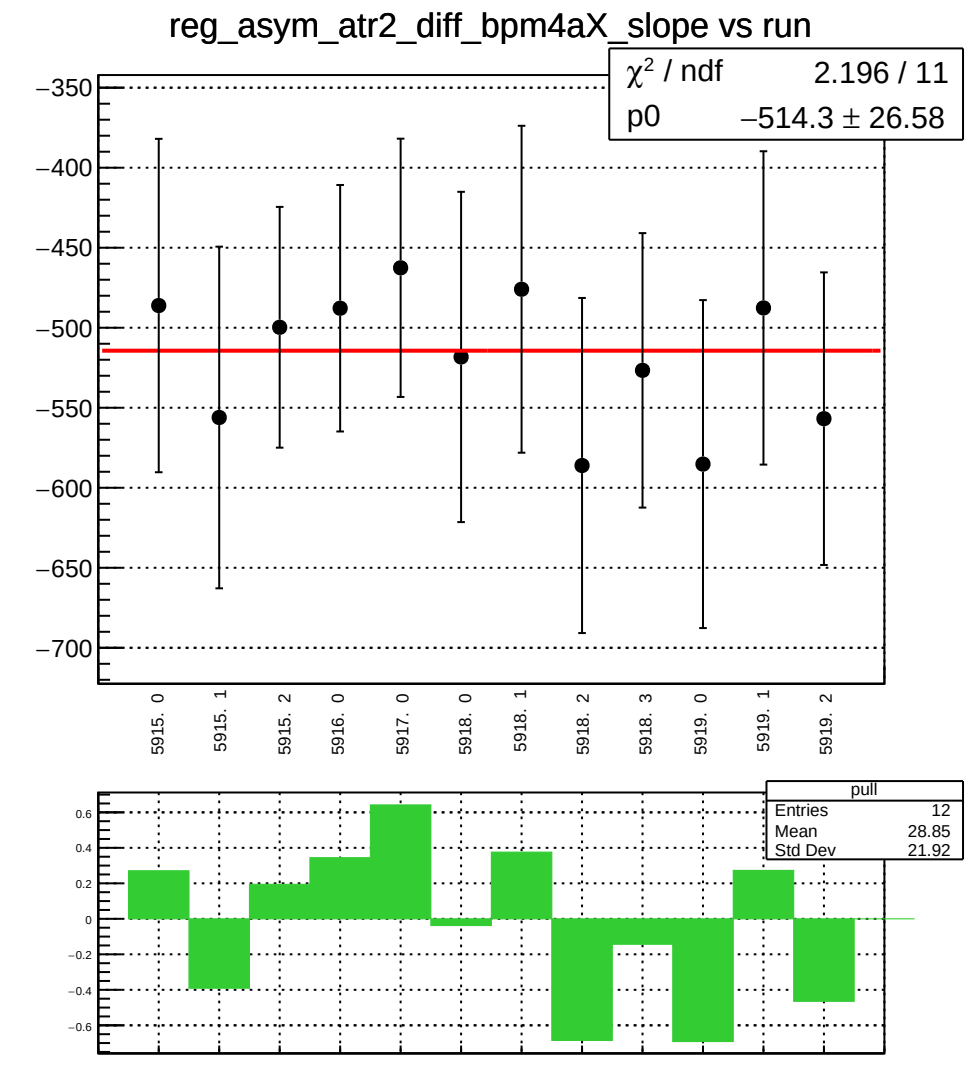

pull1D
Entries 12
Mean 0.08857
Std Dev 1.074
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

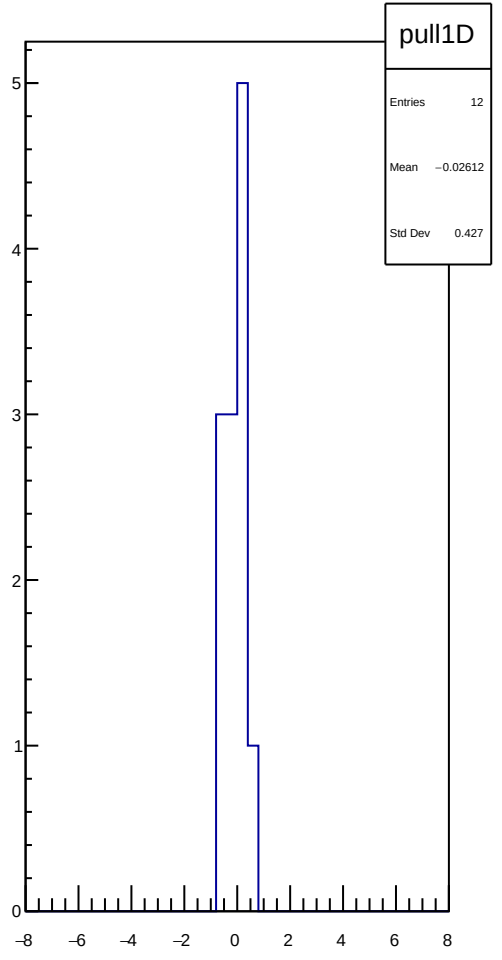

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 15.54 / 11
p0 −48.44 ± 7.804
40
20
0
−20
−40
−60
−80
−100
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.41
Std Dev 5.891
2
1.5
1
0.5
0
−0.5
−1
−1.5

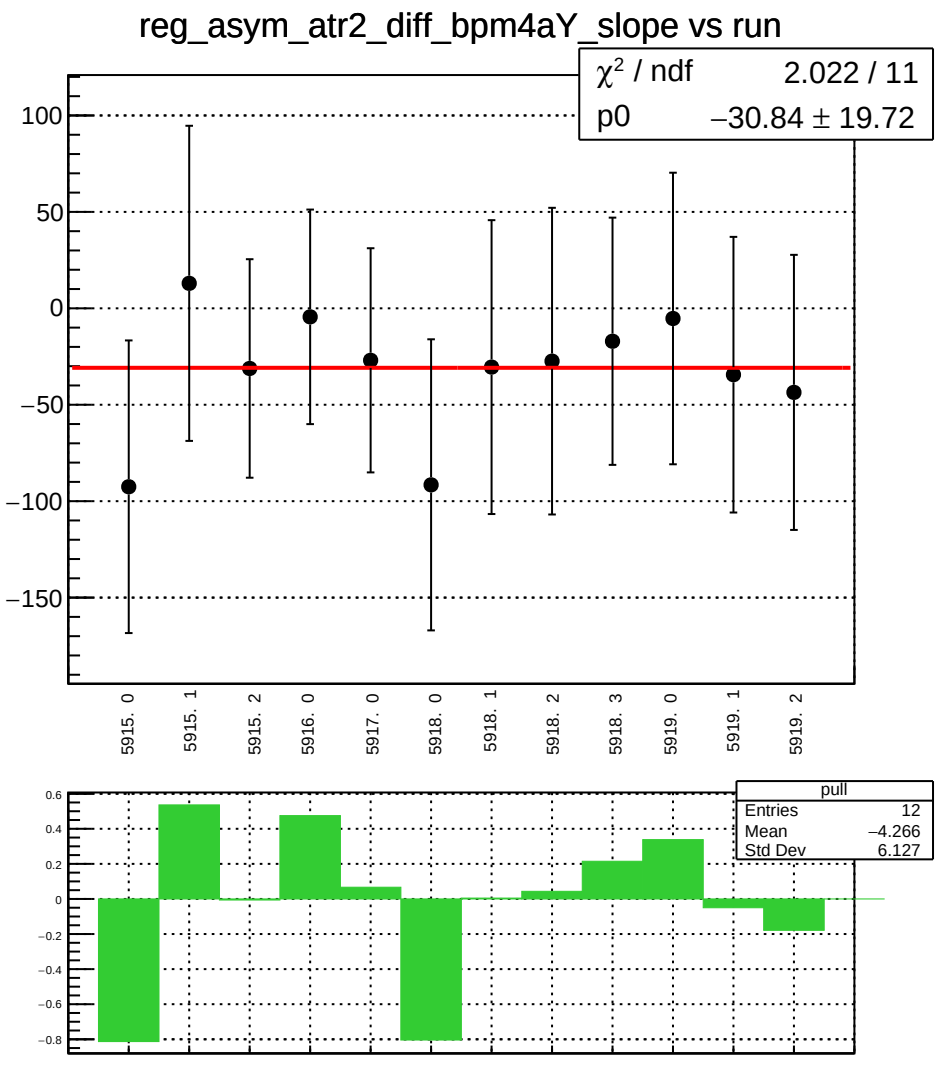

pull1D
Entries 12
Mean 0.05559
Std Dev 1.136
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

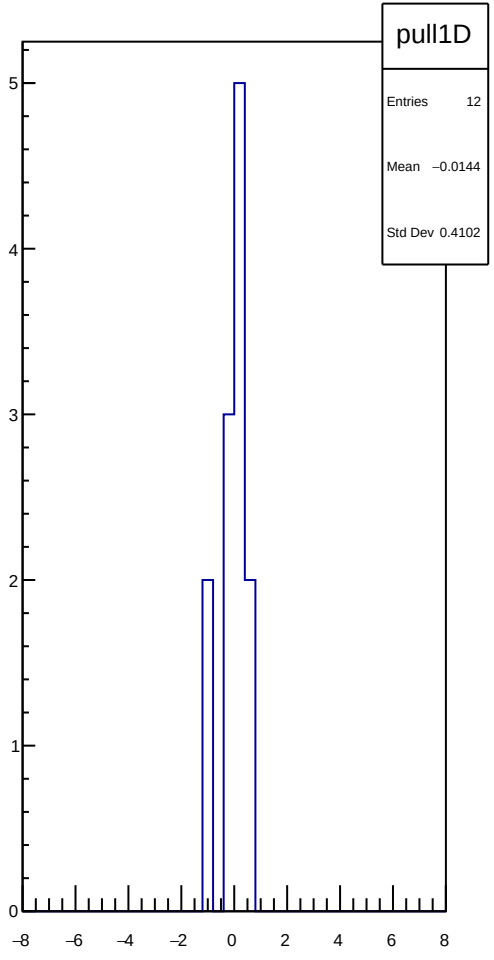

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 30.35 / 11
p0 −21.41 ± 0.5194
−16
−18
−20
−22
−24
−26
−28
−30
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 31.84
Std Dev 23.73
2
1
0
−1
−2
−3

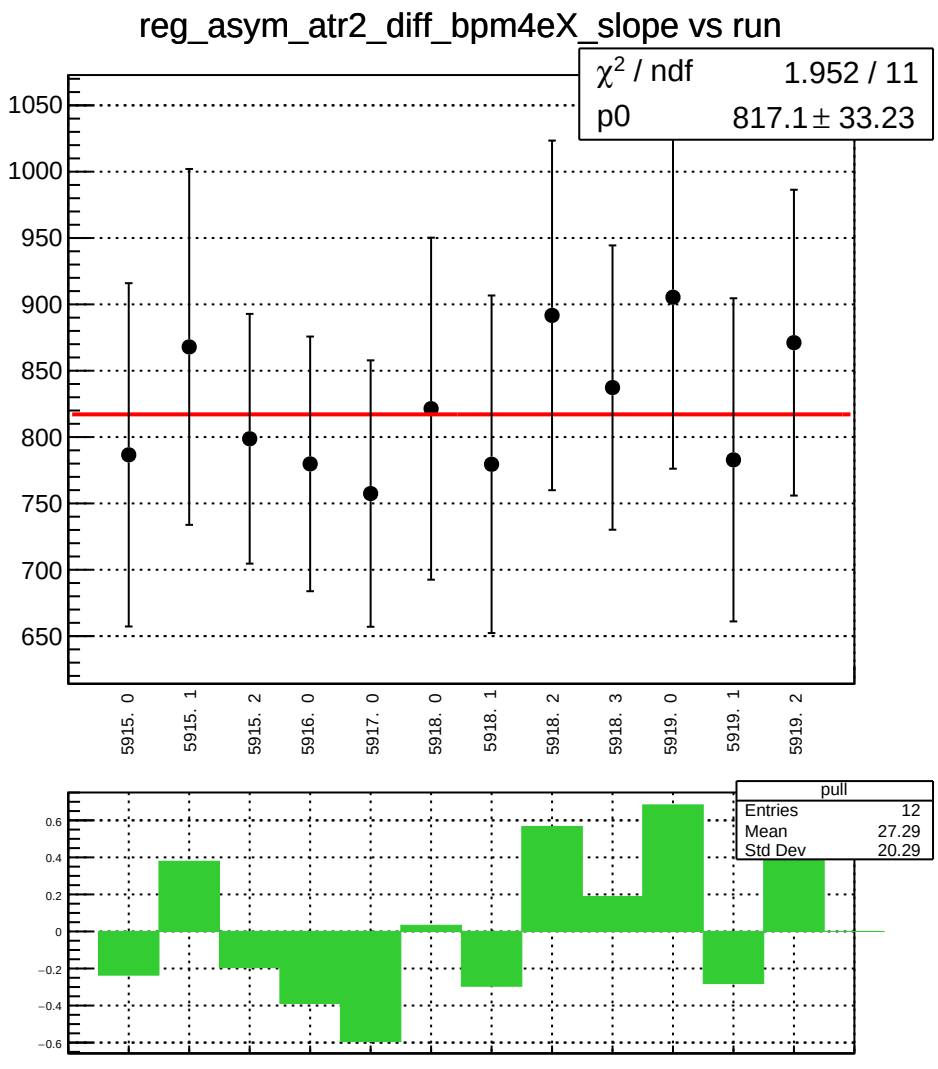

pull1D
Entries 12
Mean −0.08454
Std Dev 1.588
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

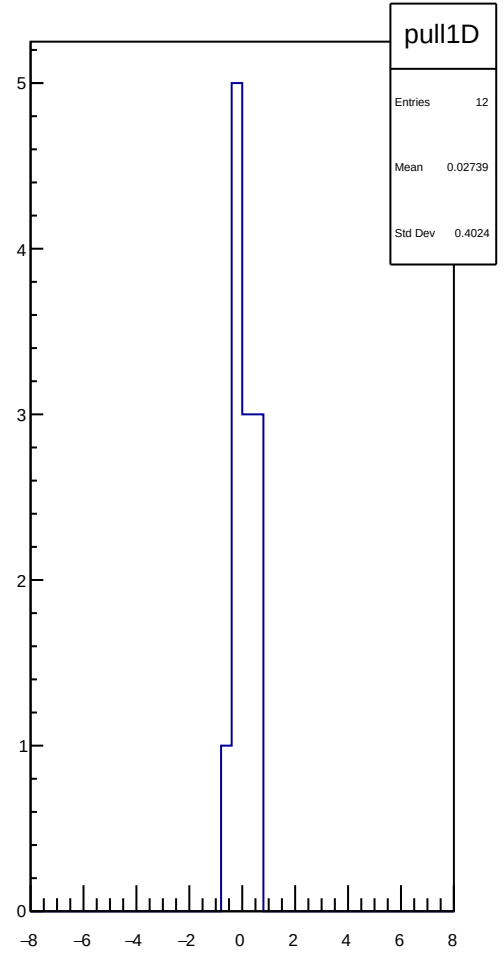

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 2.196 / 11
p0 −514.3 ± 26.58
−350
−400
−450
−500
−550
−600
−650
−700
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.85
Std Dev 21.92
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

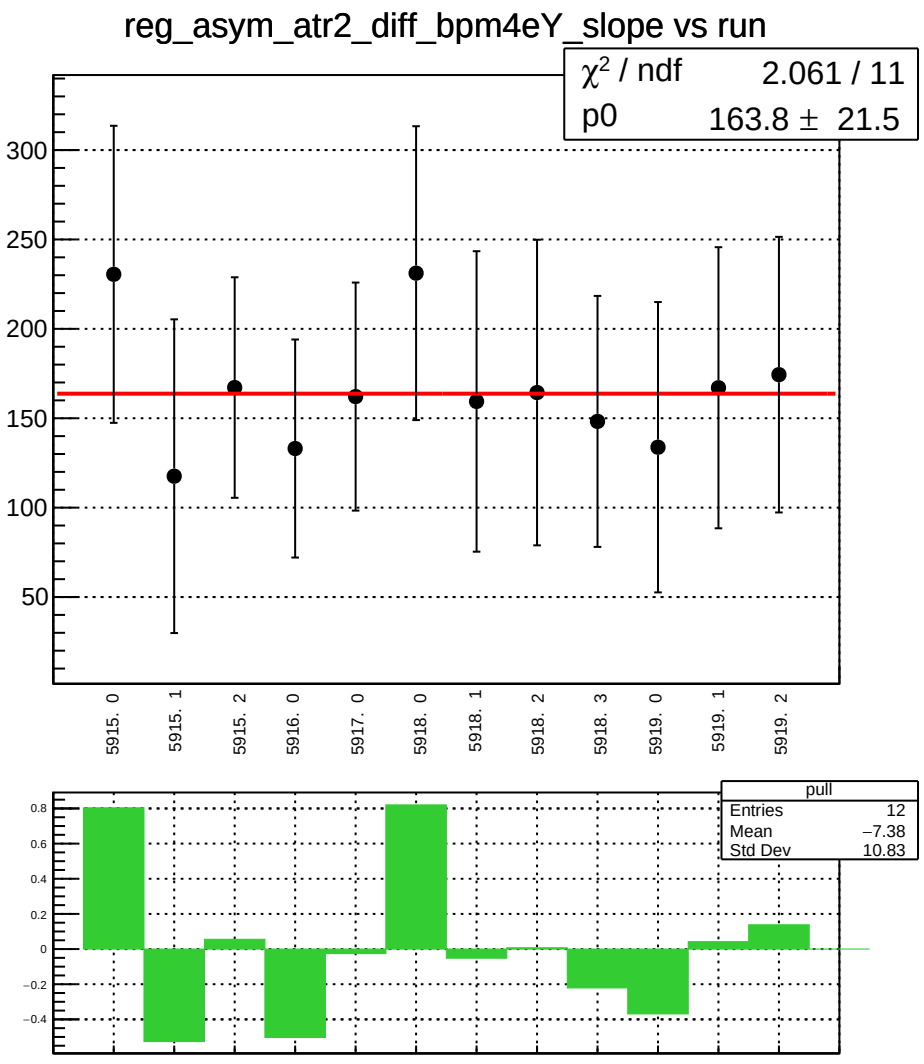

pull1D
Entries 12
Mean −0.02612
Std Dev 0.427
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

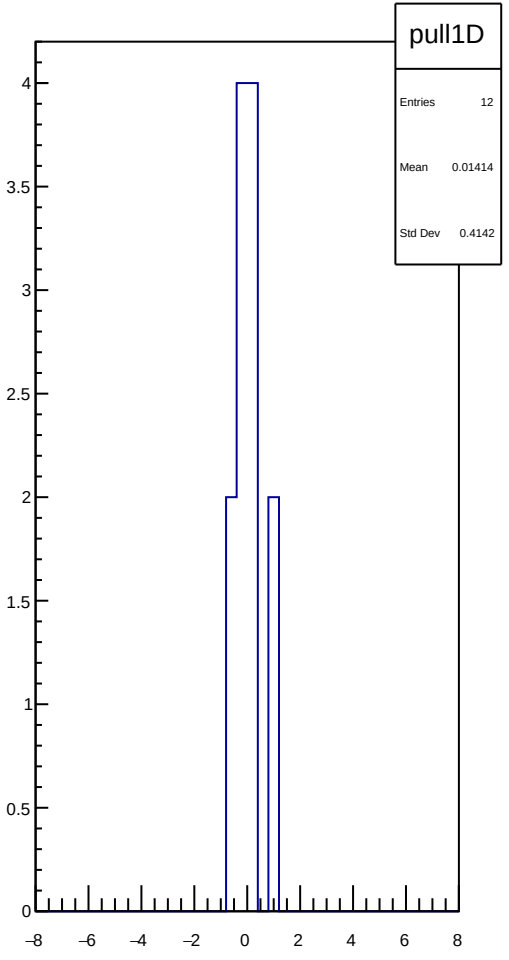

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 2.022 / 11
p0 −30.84 ± 19.72
100
50
0
−50
−100
−150
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −4.266
Std Dev 6.127
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

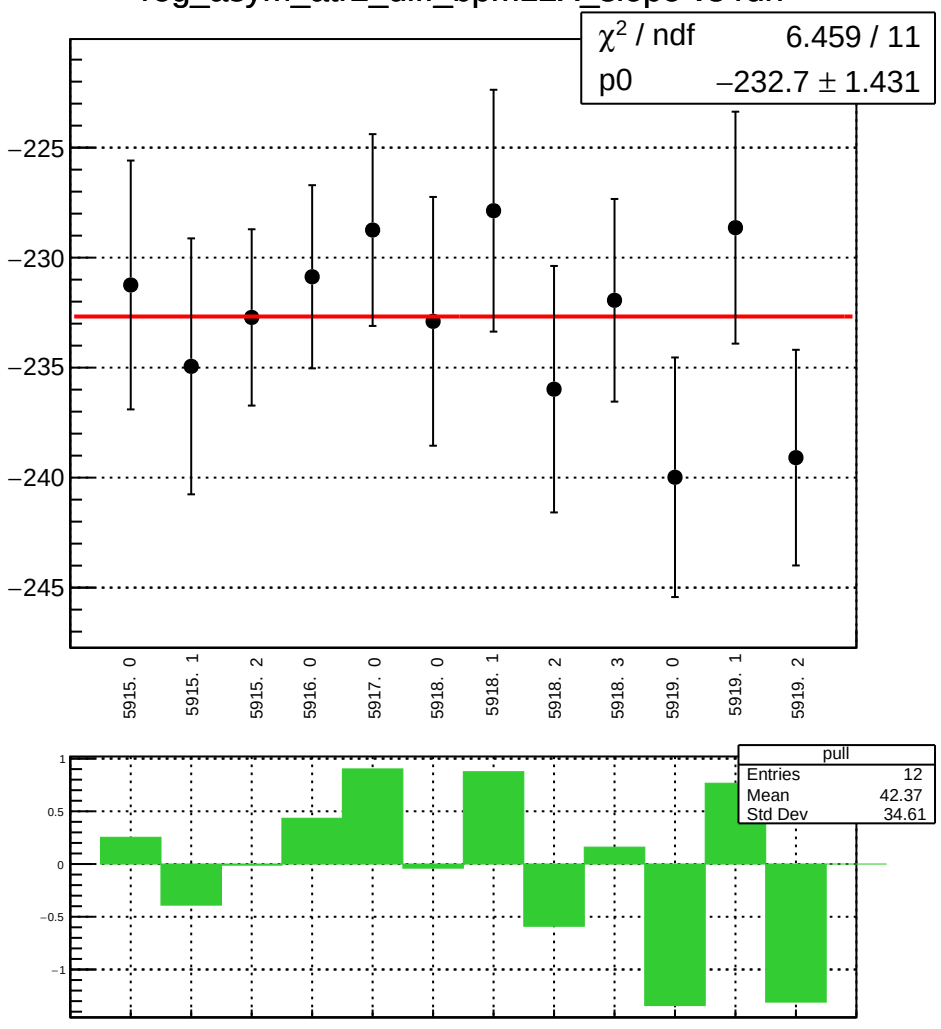

pull1D
Entries 12
Mean −0.0144
Std Dev 0.4102
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

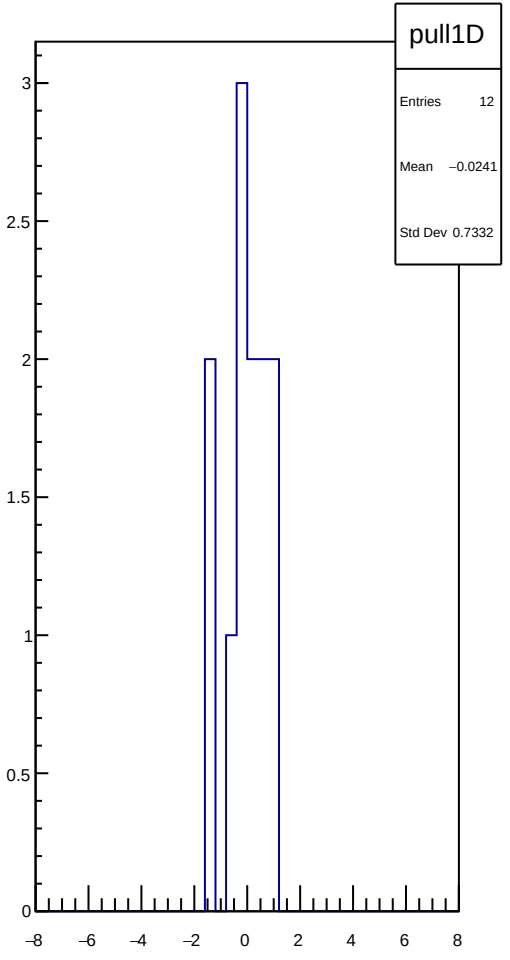

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 1.952 / 11
p0 817.1 ± 33.23
1050
1000
950
900
850
800
750
700
650
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.29
Std Dev 20.29
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

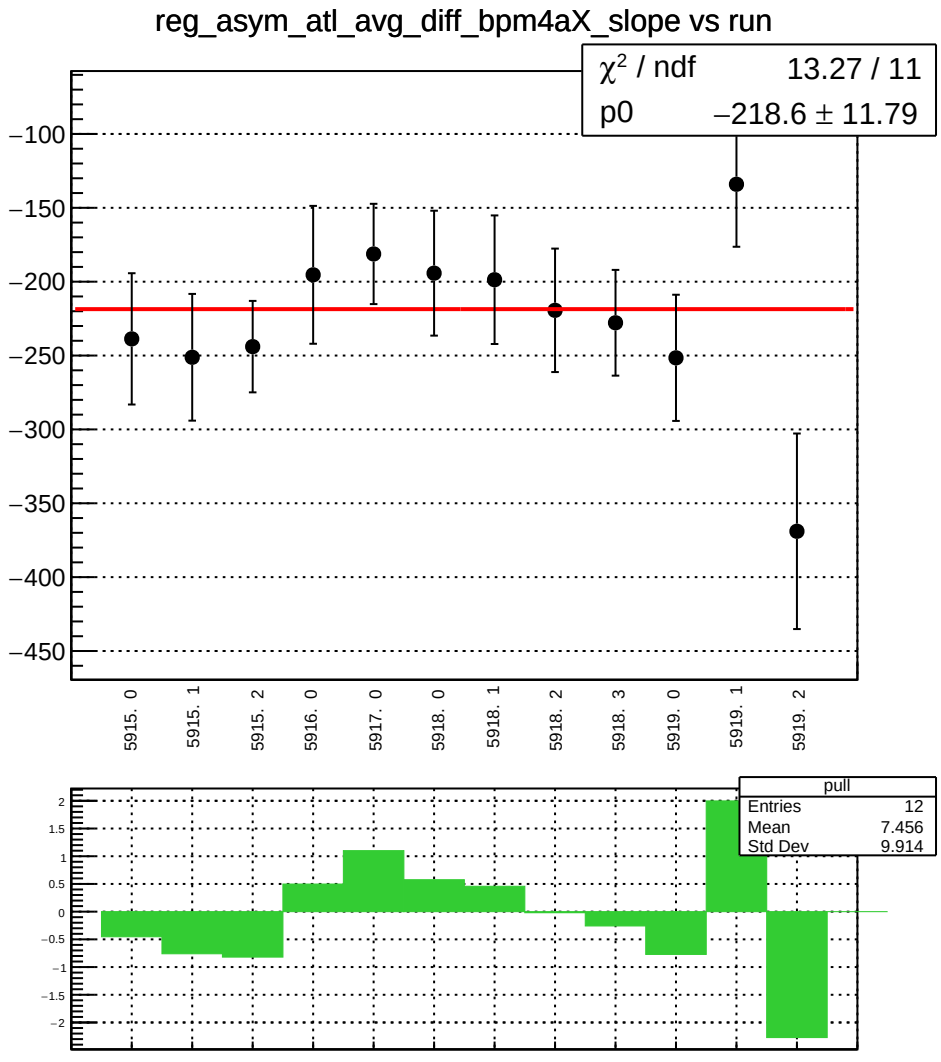

pull1D
Entries 12
Mean 0.02739
Std Dev 0.4024
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

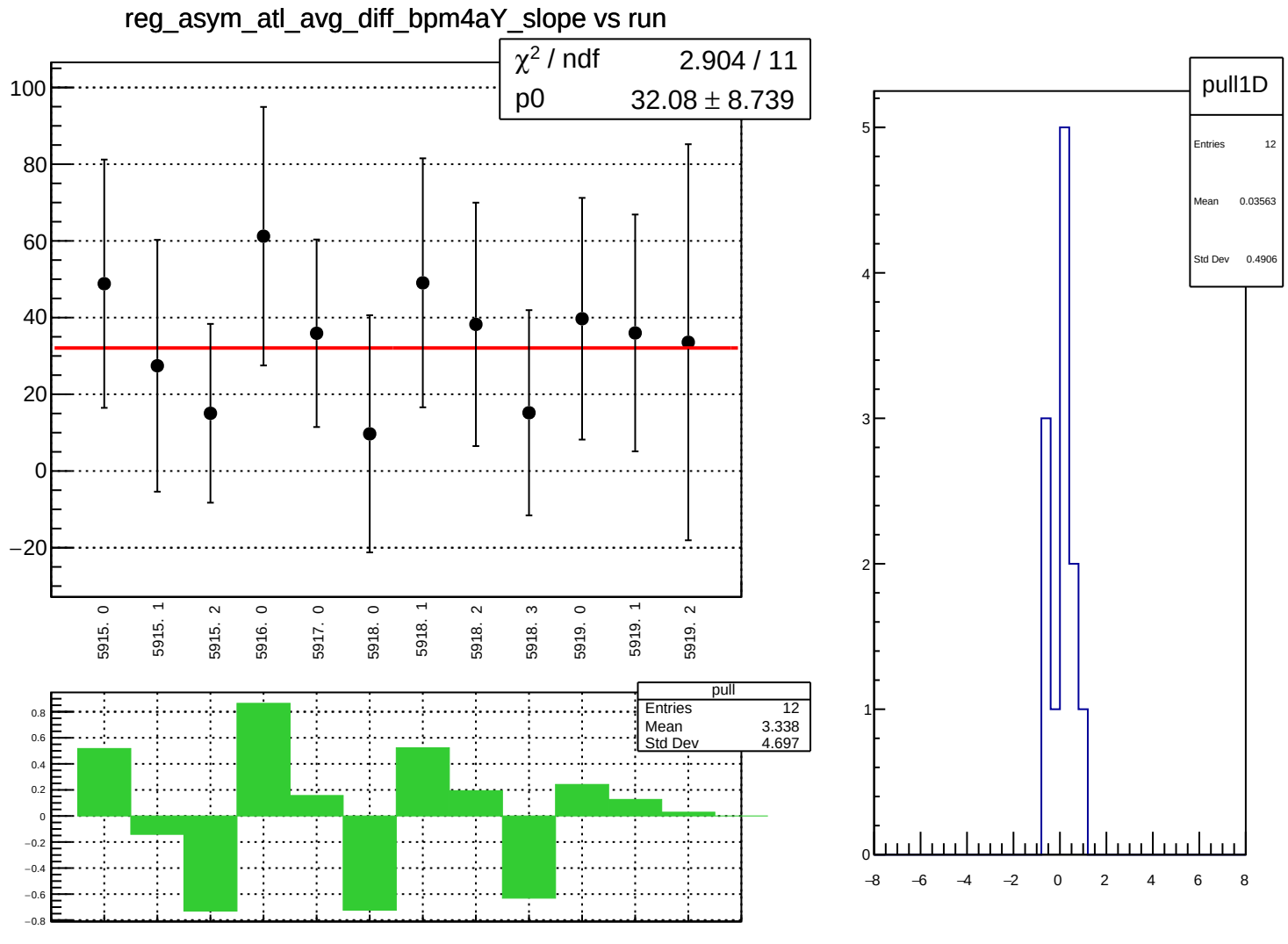

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 2.061 / 11
p0 163.8 ± 21.5
300
250
200
150
100
50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −7.38
Std Dev 10.83
0.8
0.6
0.4
0.2
0
−0.2
−0.4

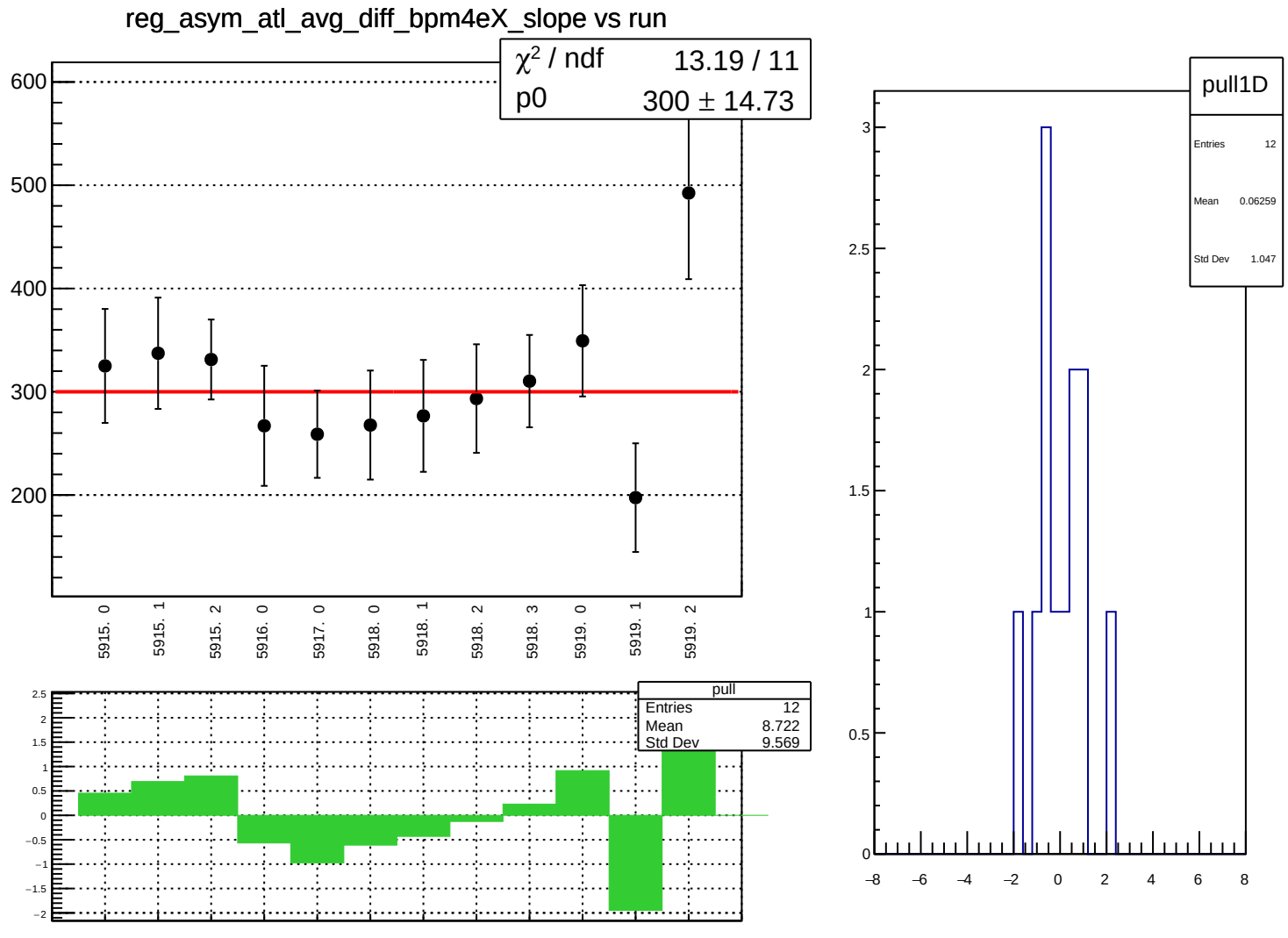

pull1D
Entries 12
Mean 0.01414
Std Dev 0.4142
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

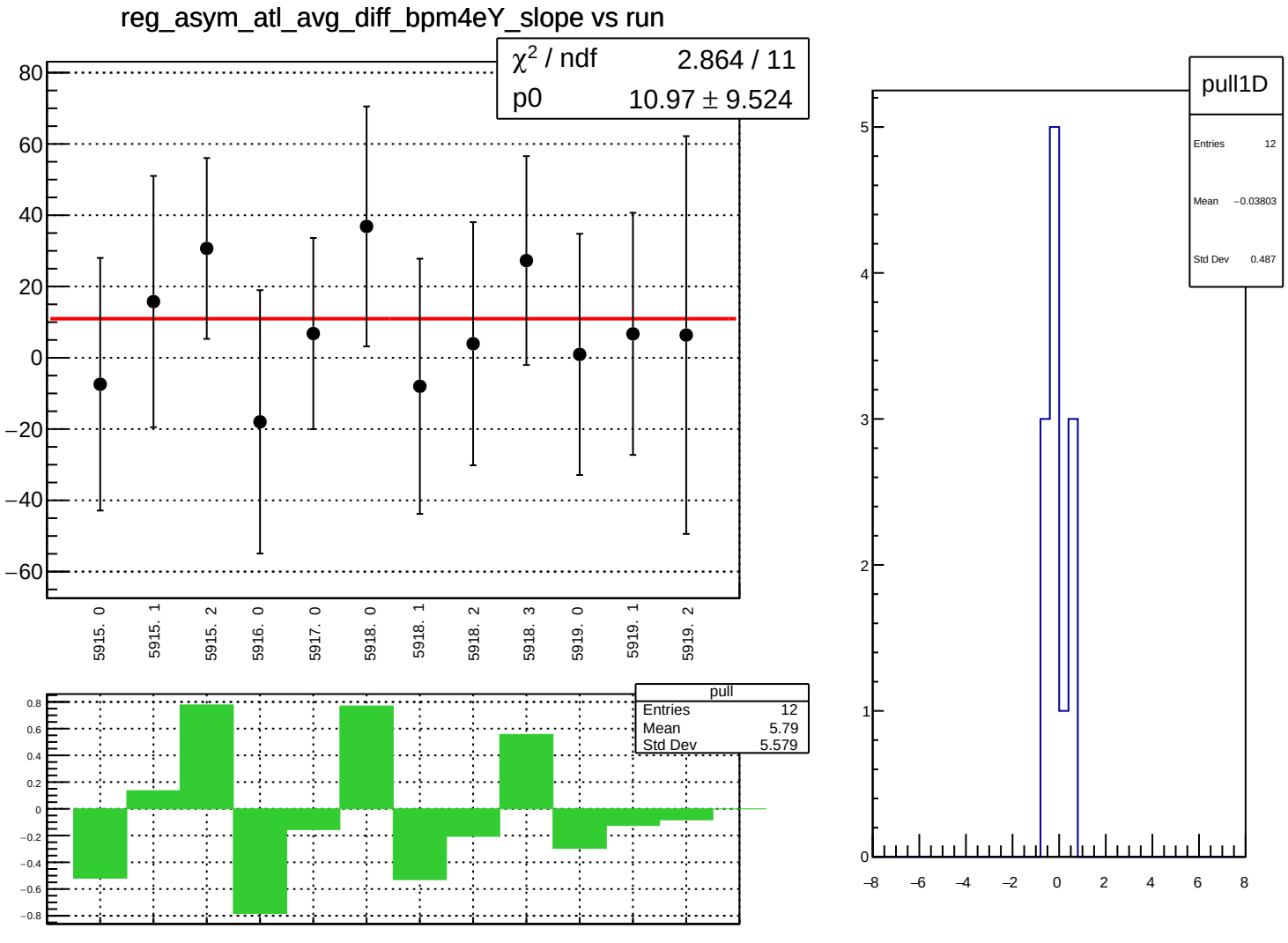

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 6.459 / 11
p0 −232.7 ± 1.431
−225
−230
−235
−240
−245
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 42.37
Std Dev 34.61
1
0.5
0
−0.5
−1

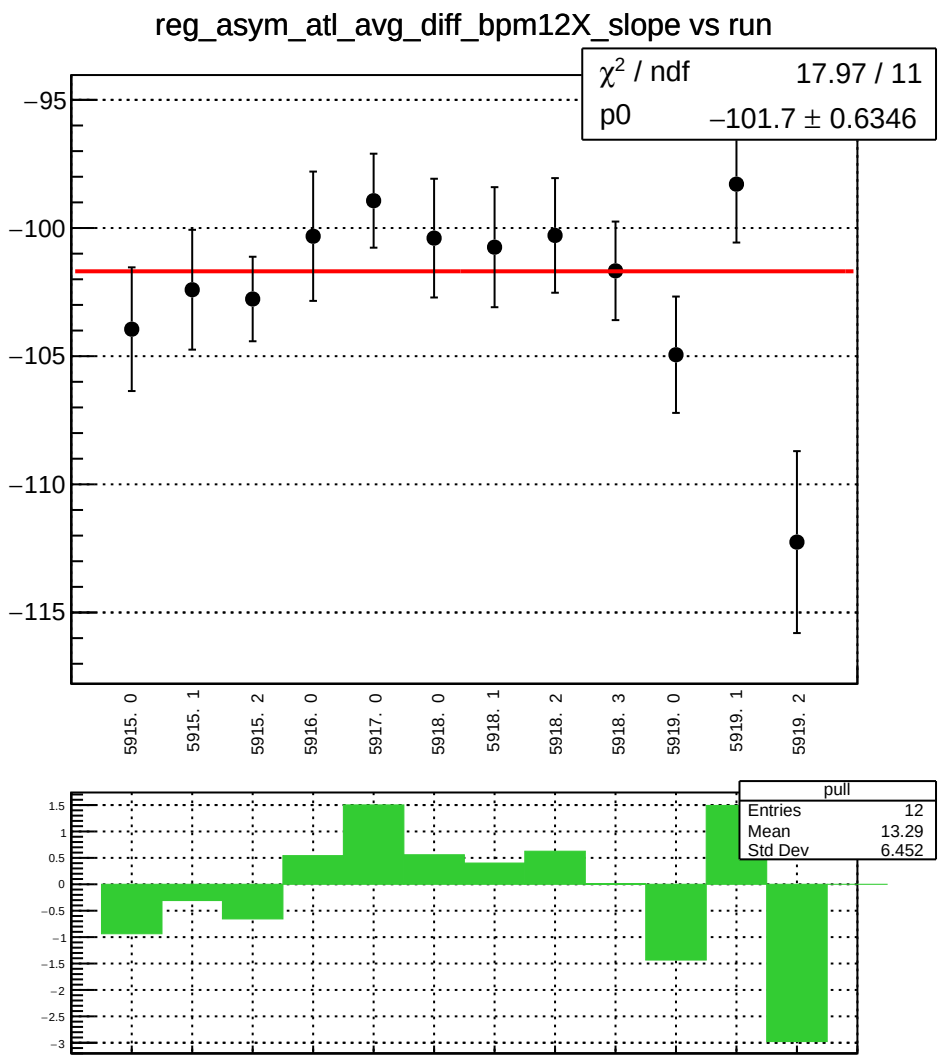

pull1D
Entries 12
Mean −0.0241
Std Dev 0.7332
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

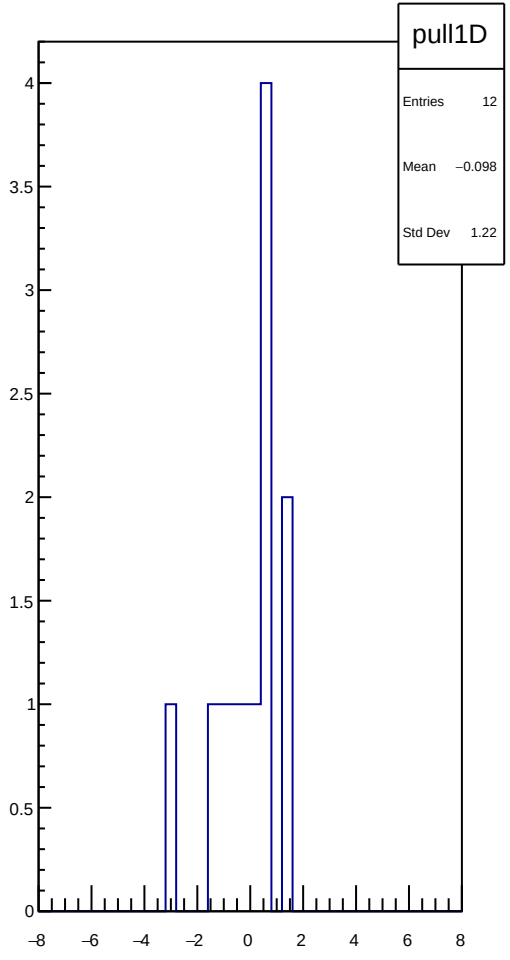

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.27 / 11
p0 −218.6 ± 11.79
−100
−150
−200
−250
−300
−350
−400
−450
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 7.456
Std Dev 9.914
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean −0.06031
Std Dev 1.05
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

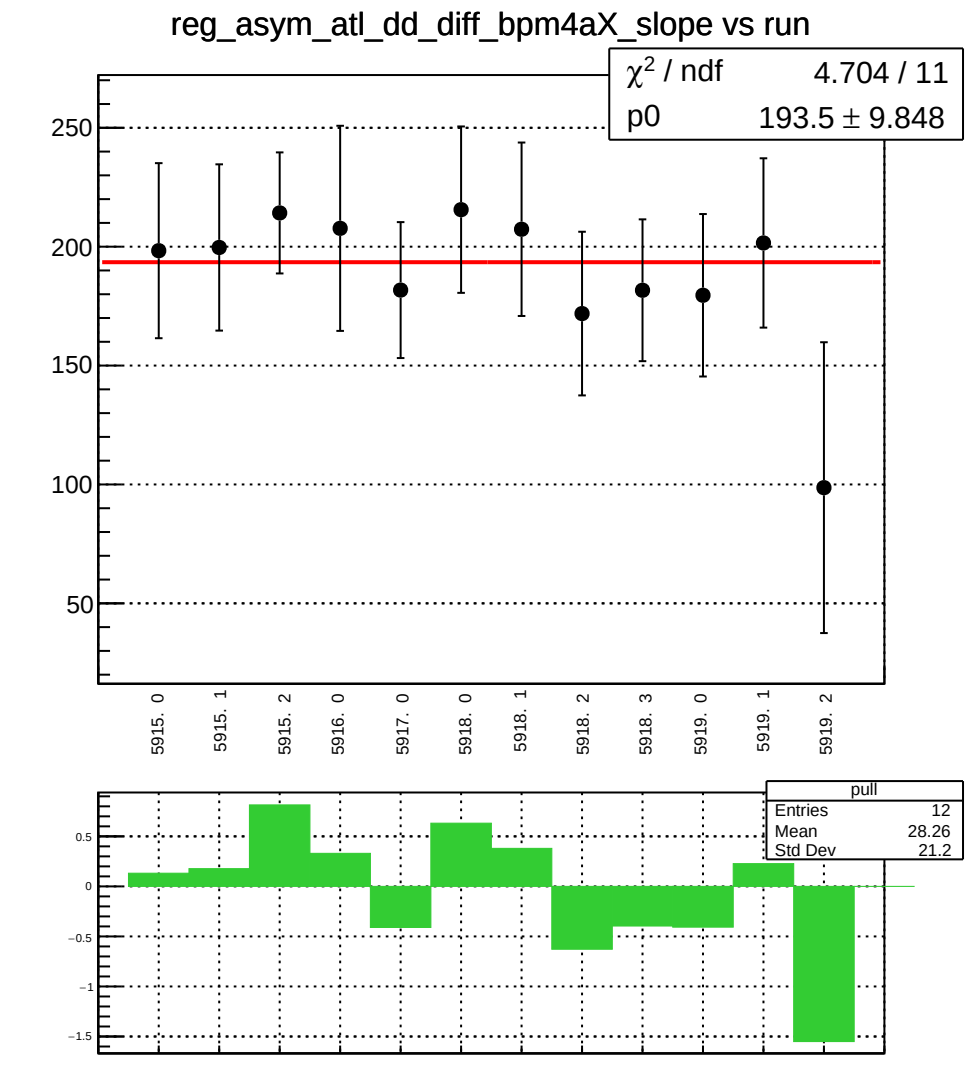

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.904 / 11
p0 32.08 ± 8.739
100
80
60
40
20
0
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 3.338
Std Dev 4.697
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean 0.03563
Std Dev 0.4906
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

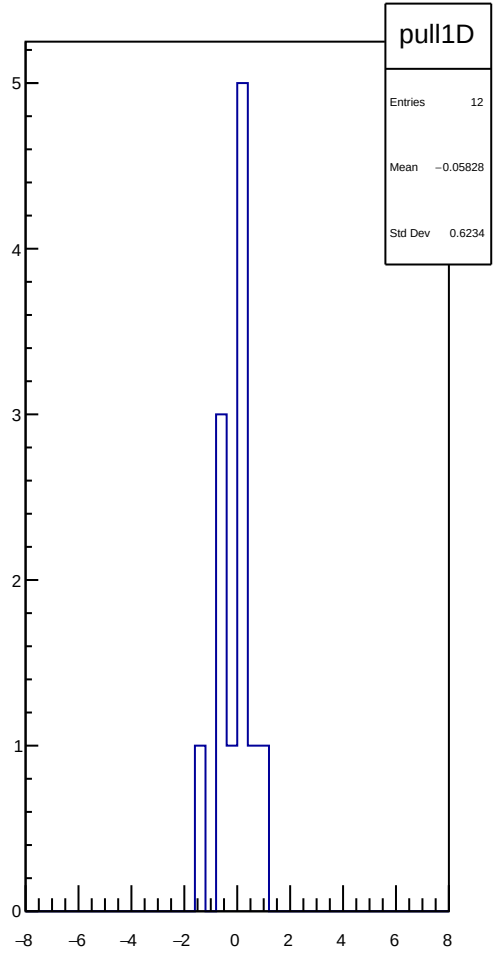

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.19 / 11
p0 300 ± 14.73
600
500
400
300
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.722
Std Dev 9.569
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.06259
Std Dev 1.047
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

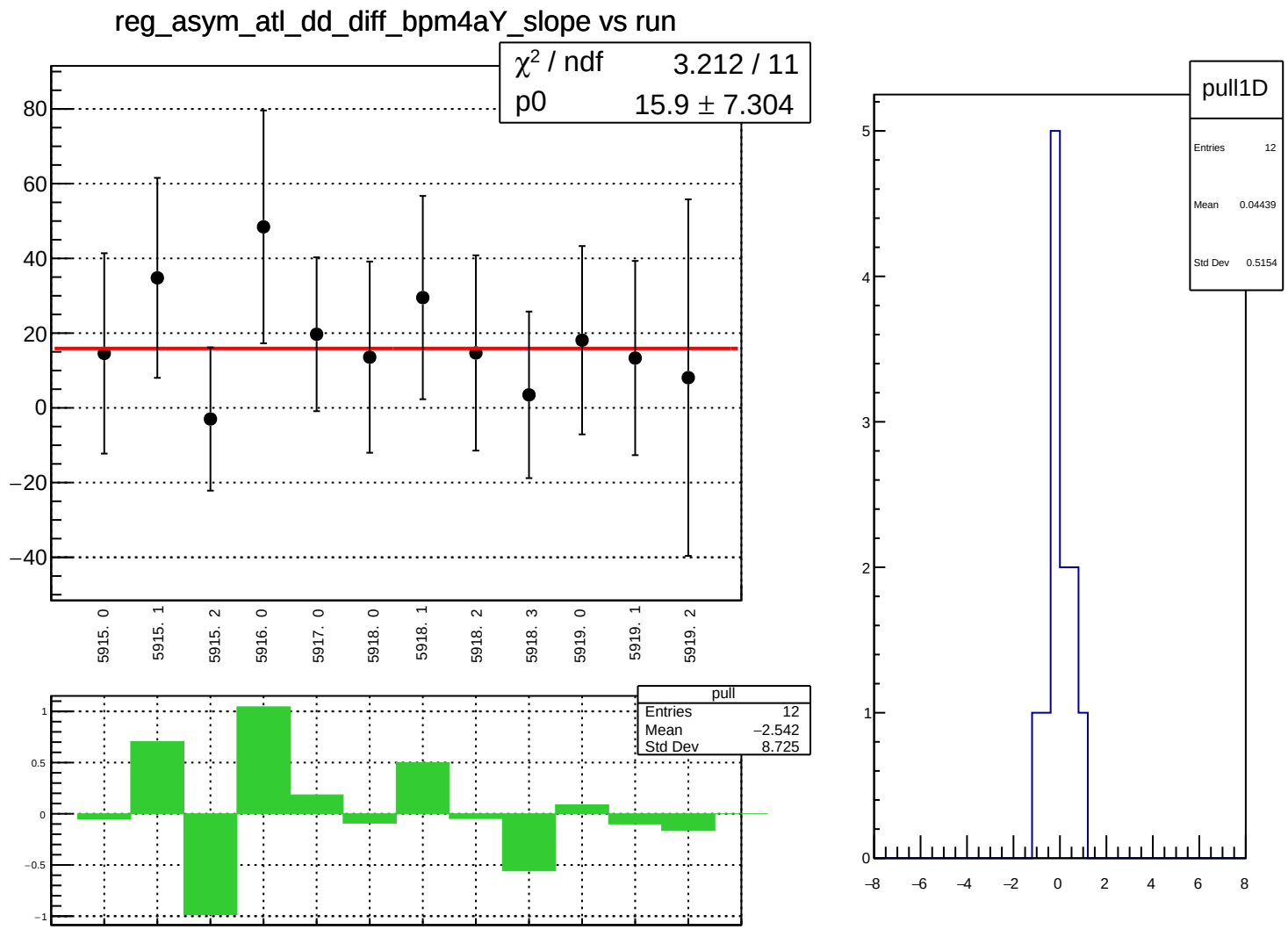

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.864 / 11
p0 10.97 ± 9.524
80
60
40
20
0
−20
−40
−60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 5.79
Std Dev 5.579
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean −0.03803
Std Dev 0.487
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

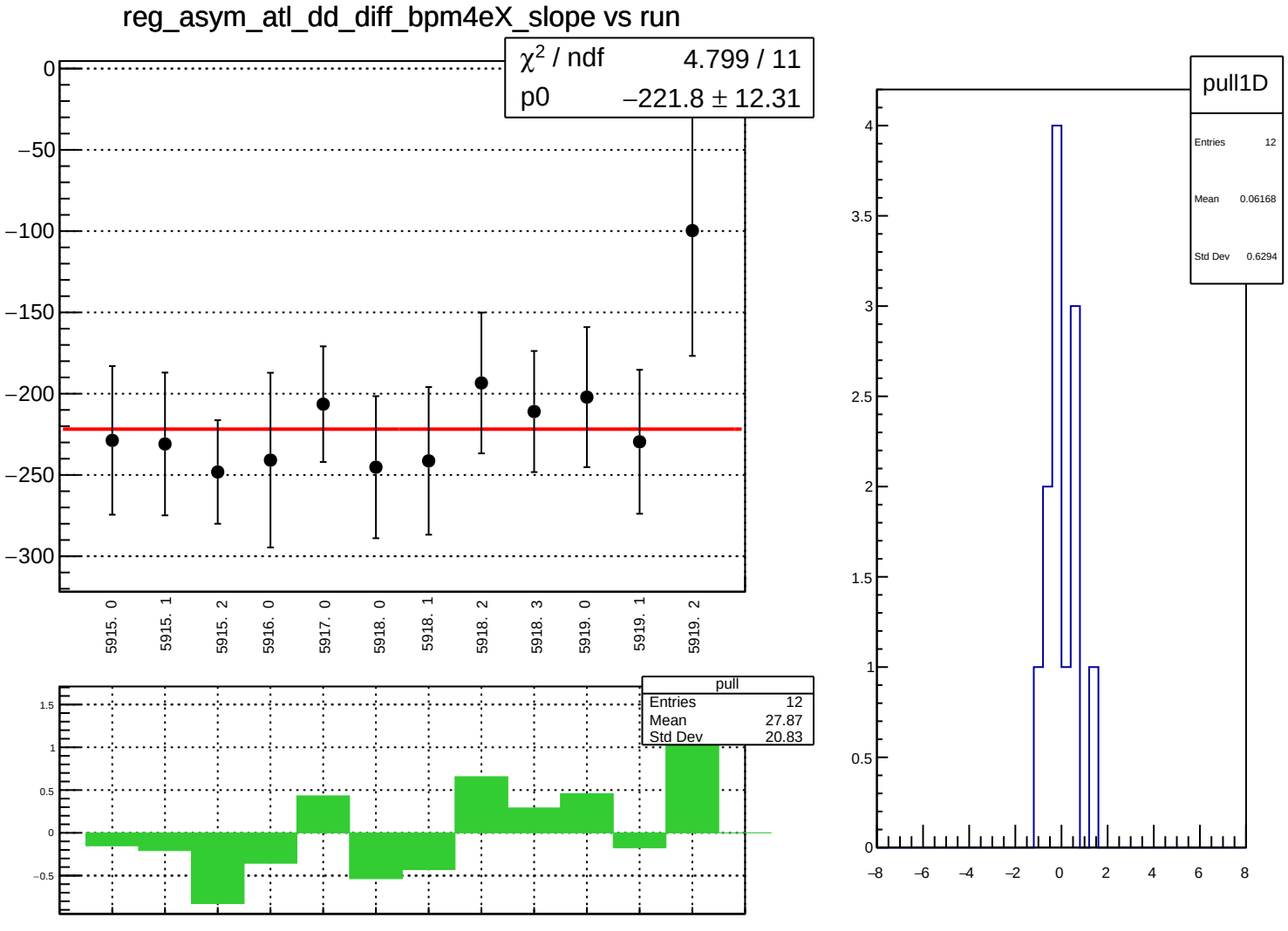

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 17.97 / 11
p0 −101.7 ± 0.6346
−95
−100
−105
−110
−115
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.29
Std Dev 6.452
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

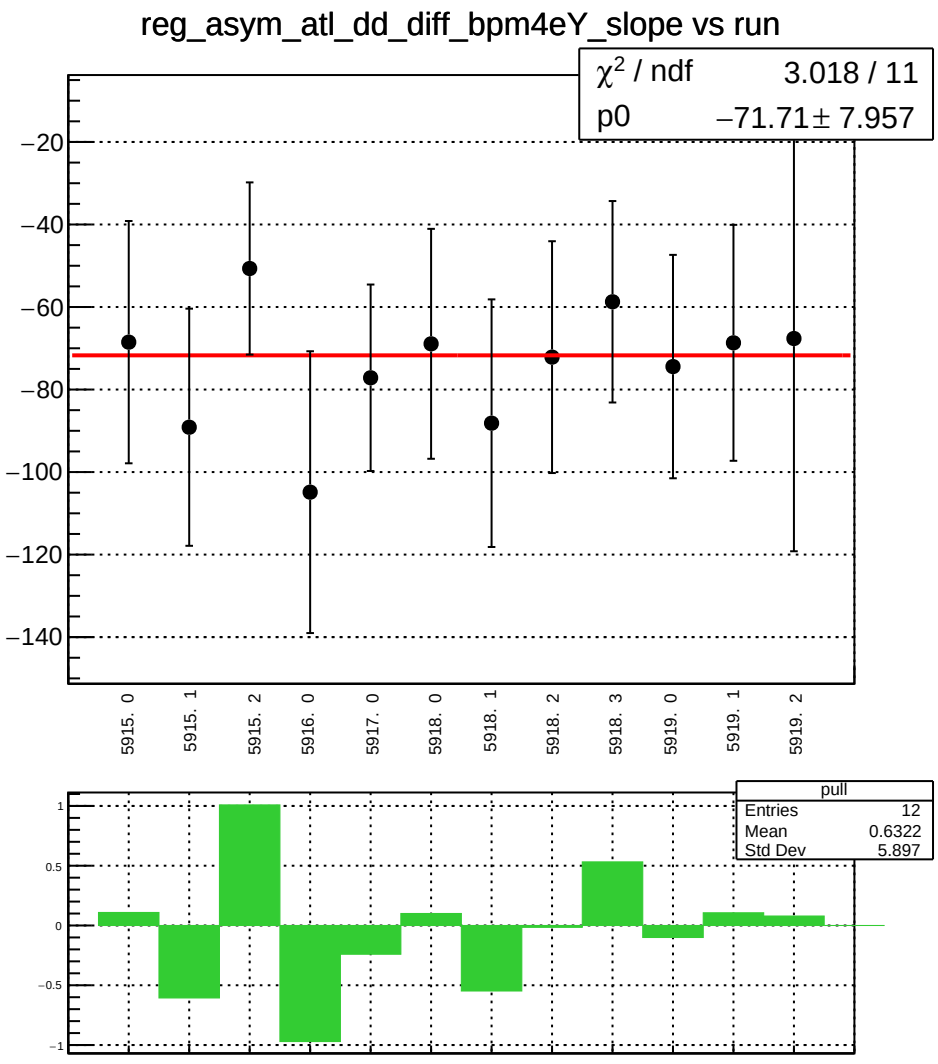

pull1D
Entries 12
Mean −0.098
Std Dev 1.22
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

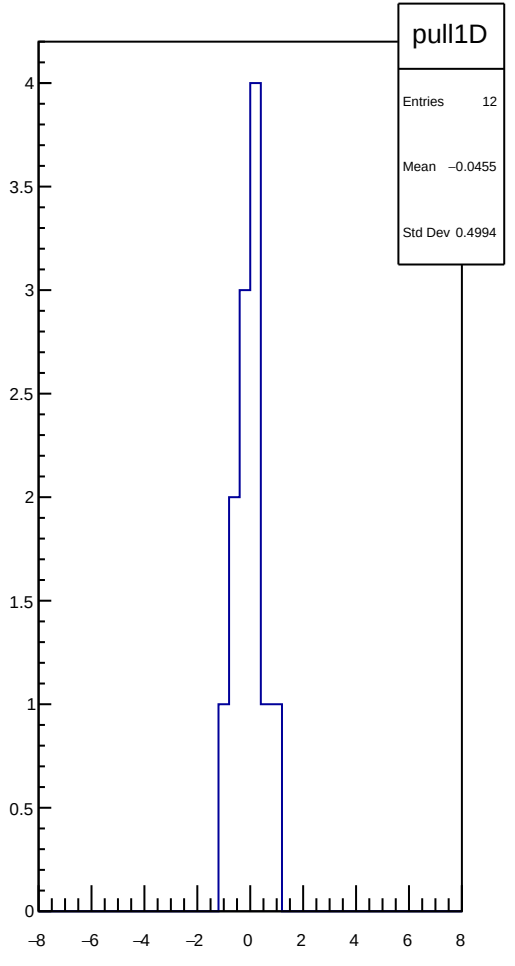

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.704 / 11
p0 193.5 ± 9.848
250
200
150
100
50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 28.26
Std Dev 21.2
0.5
0
−0.5
−1
−1.5

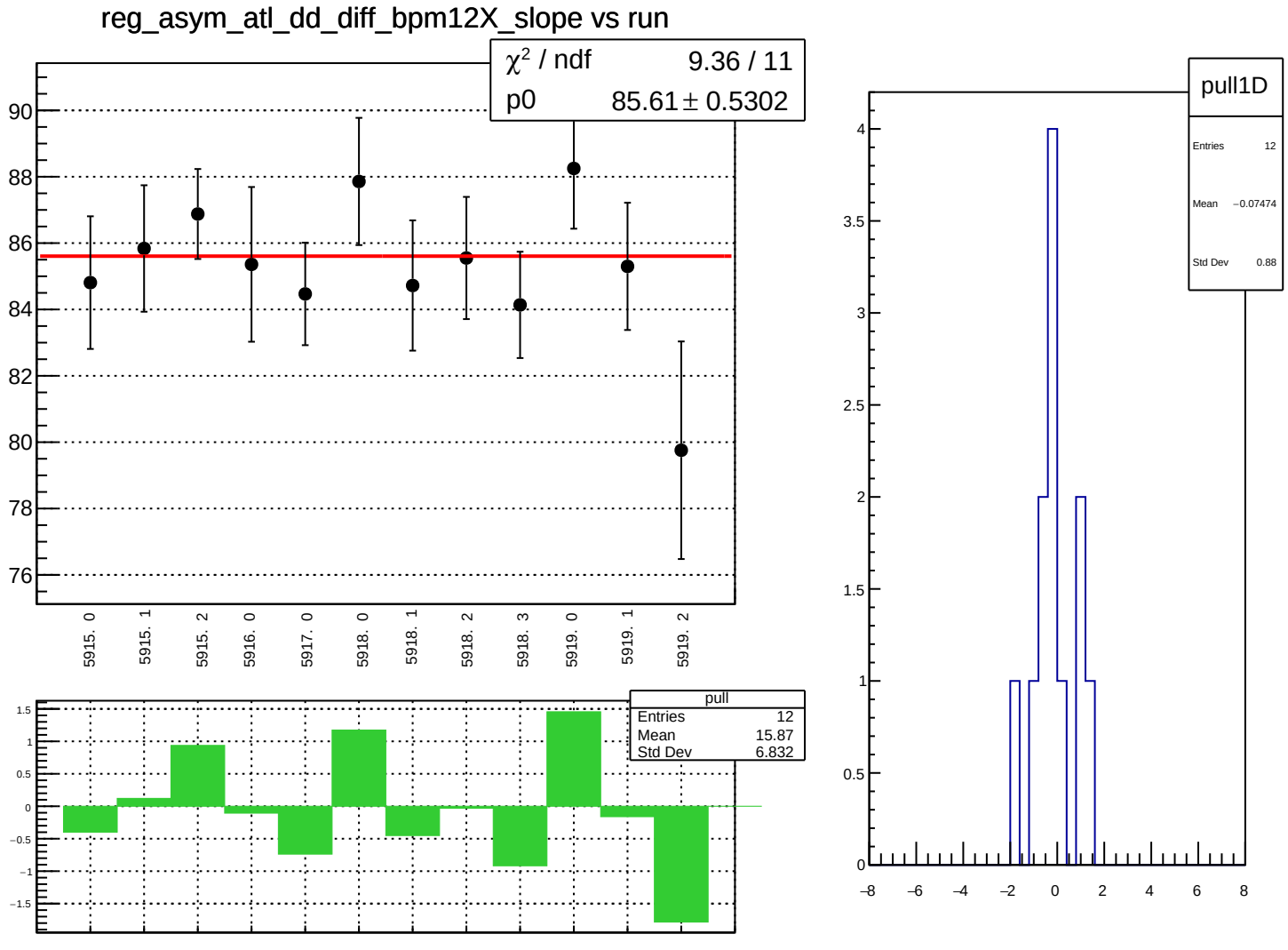

pull1D
Entries 12
Mean −0.05828
Std Dev 0.6234
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

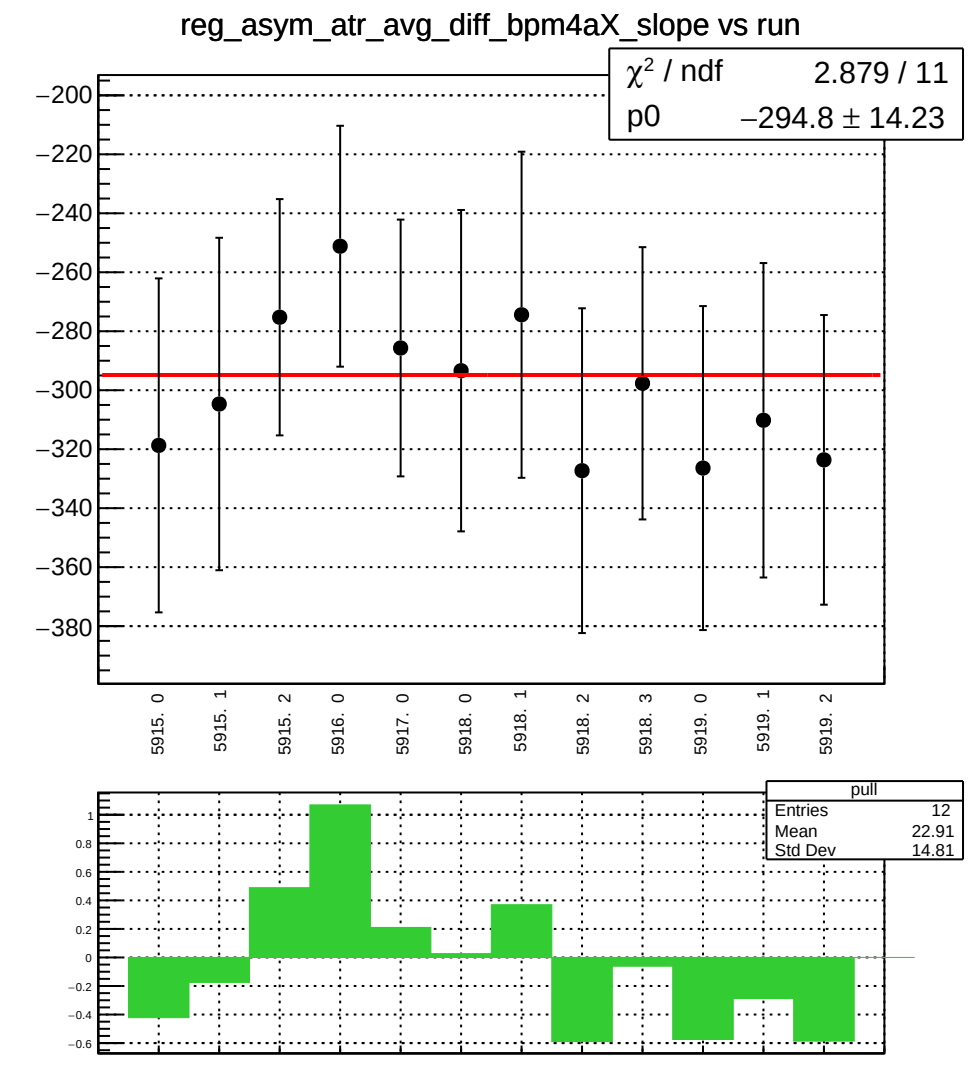

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.212 / 11
p0 15.9 ± 7.304
80
60
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −2.542
Std Dev 8.725
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.04439
Std Dev 0.5154
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

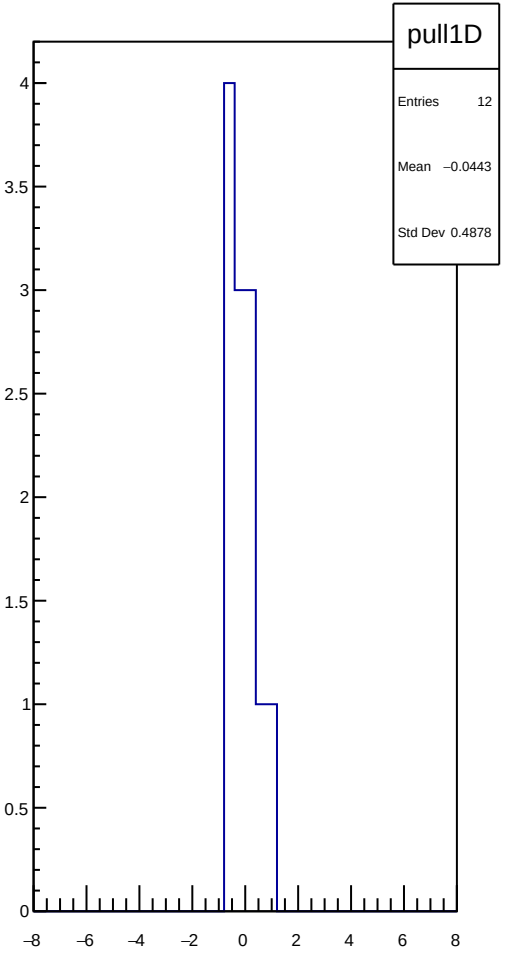

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.799 / 11
p0 −221.8 ± 12.31
0
−50
−100
−150
−200
−250
−300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.87
Std Dev 20.83
1.5
1
0.5
0
−0.5
pull1D
Entries 12
Mean 0.06168
Std Dev 0.6294
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

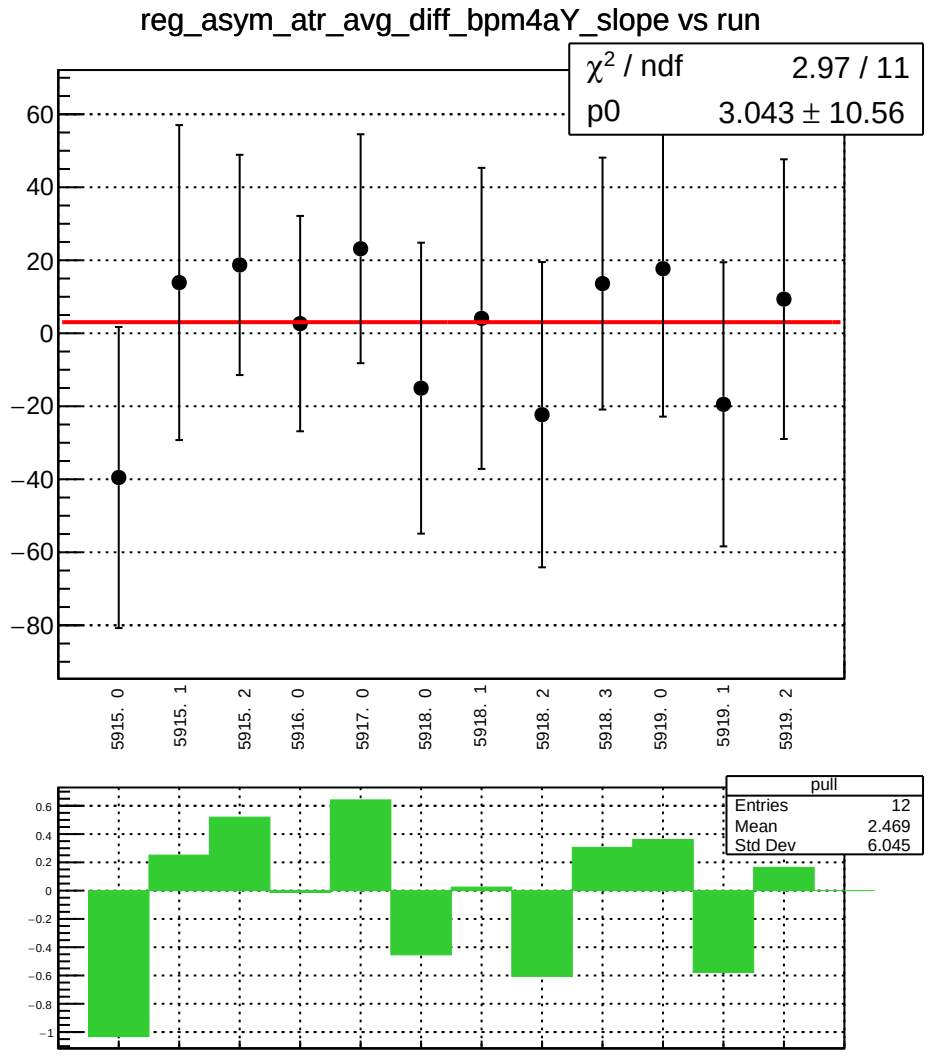

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.018 / 11
p0 −71.71± 7.957
−20
−40
−60
−80
−100
−120
−140
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.6322
Std Dev 5.897
1
0.5
0
−0.5
−1

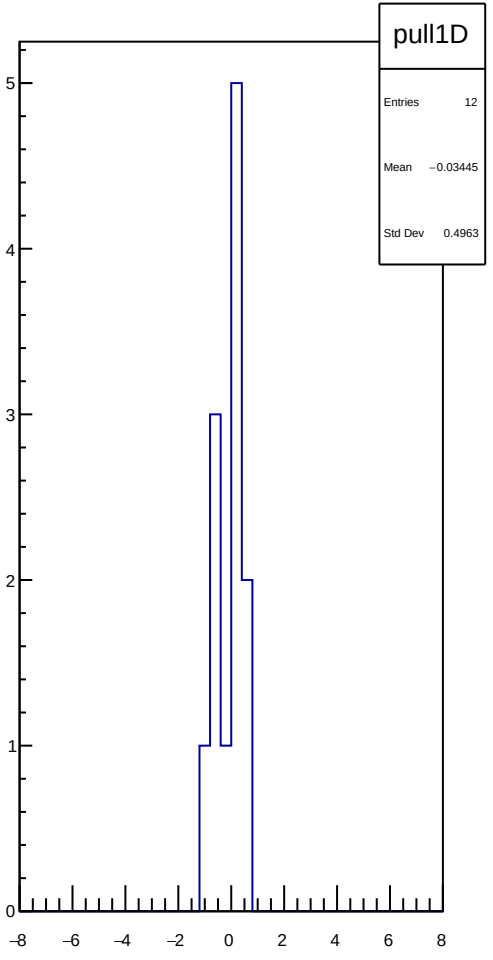

pull1D
Entries 12
Mean −0.0455
Std Dev 0.4994
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

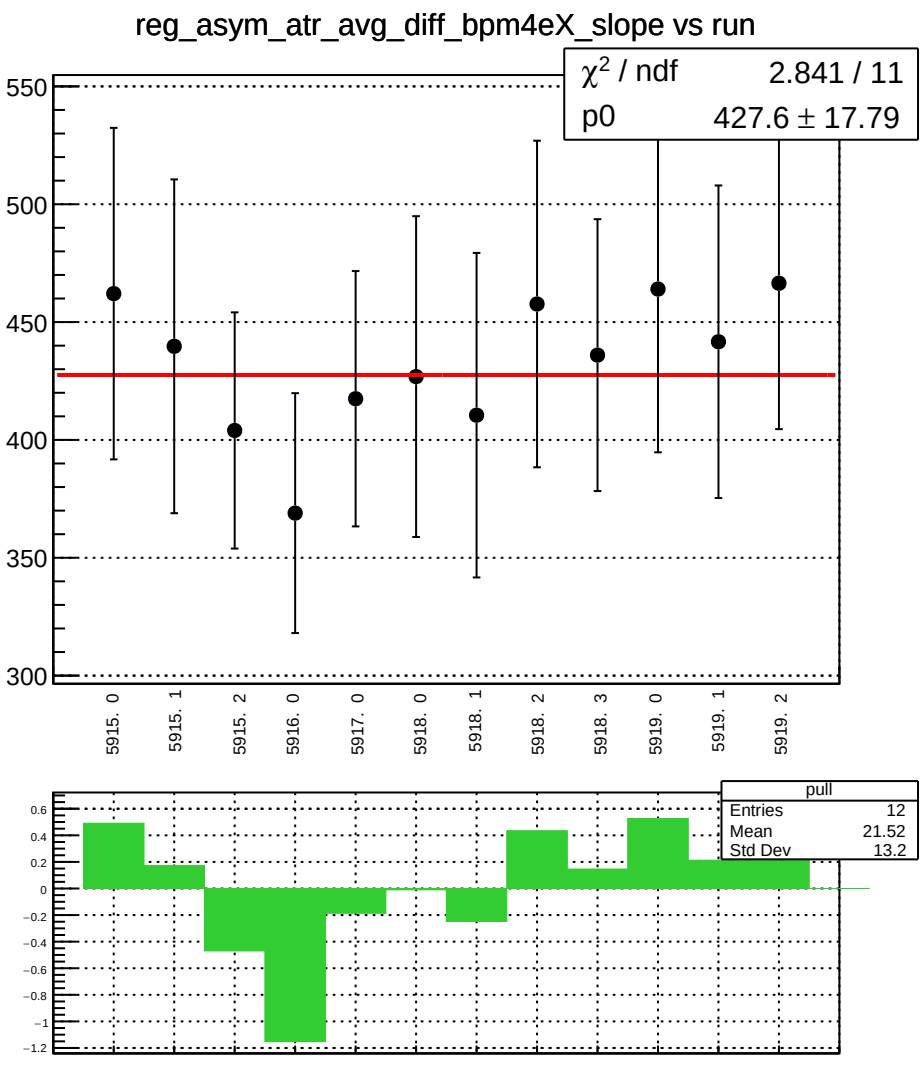

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 9.36 / 11
p0 85.61 ± 0.5302
90
88
86
84
82
80
78
76
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 15.87
Std Dev 6.832
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.07474
Std Dev 0.88
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

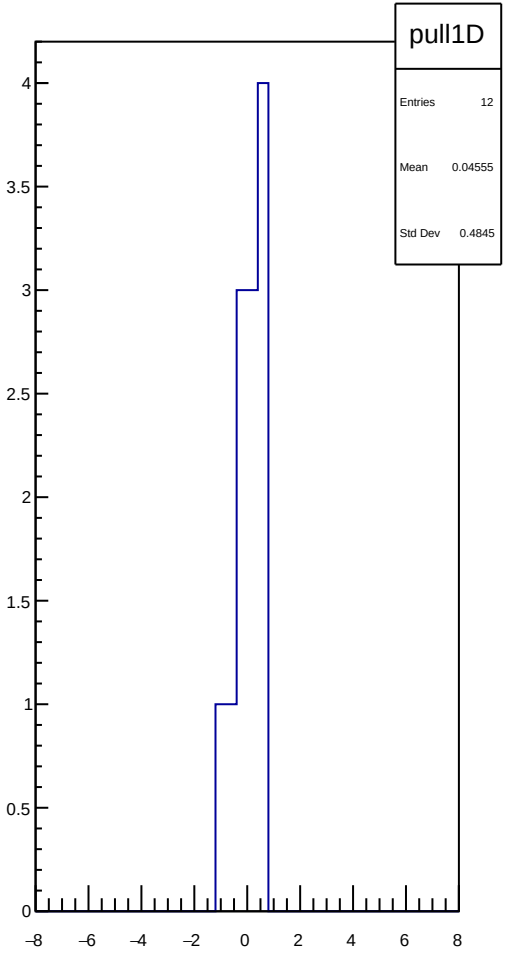

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.879 / 11
p0 −294.8 ± 14.23
−200
−220
−240
−260
−280
−300
−320
−340
−360
−380
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.91
Std Dev 14.81
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

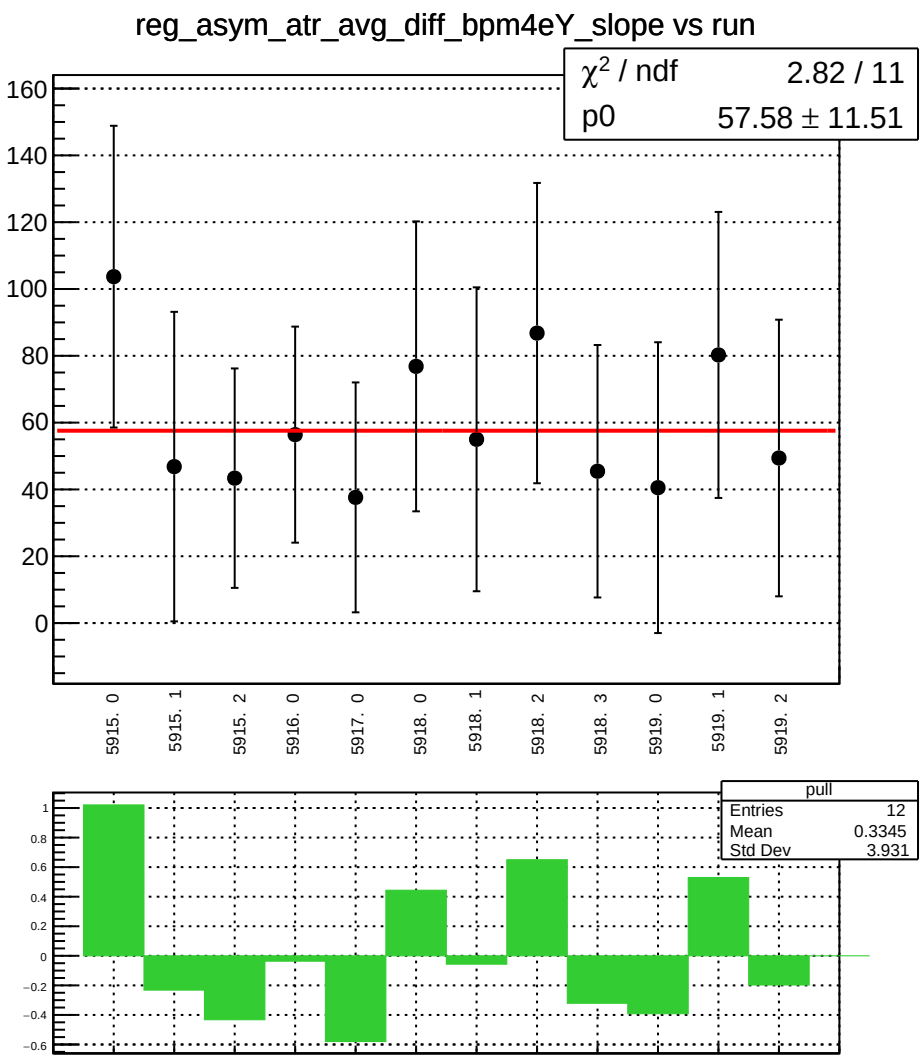

pull1D
Entries 12
Mean −0.0443
Std Dev 0.4878
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

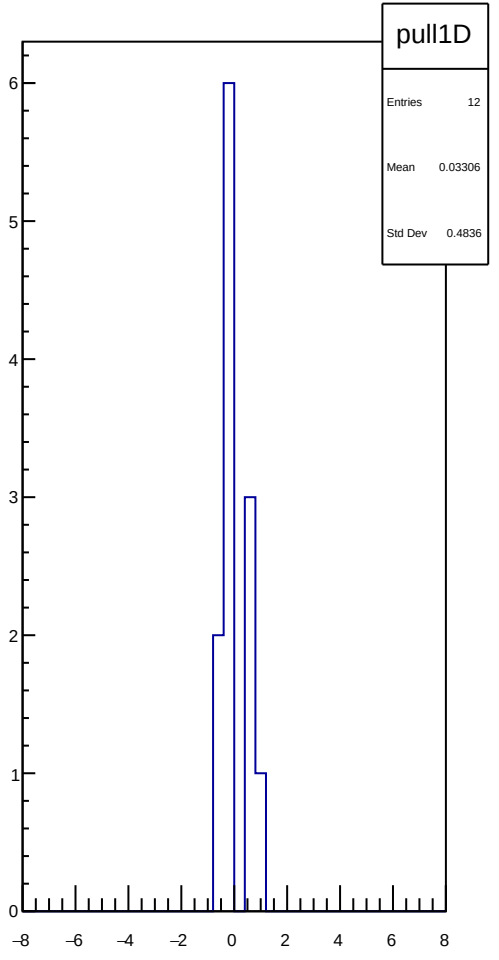

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.97 / 11
p0 3.043 ± 10.56
60
40
20
0
−20
−40
−60
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 2.469
Std Dev 6.045
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

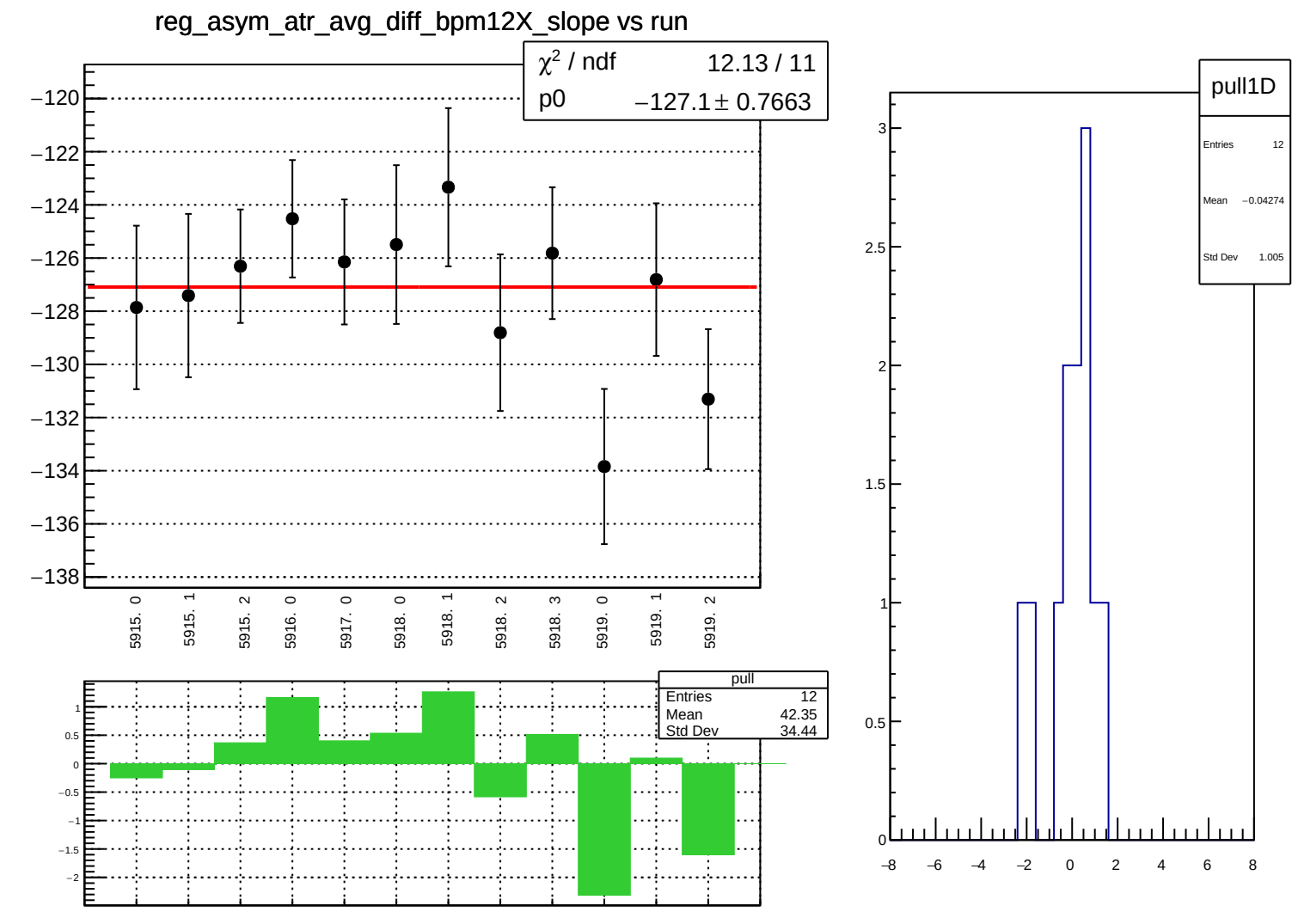

pull1D
Entries 12
Mean −0.03445
Std Dev 0.4963
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

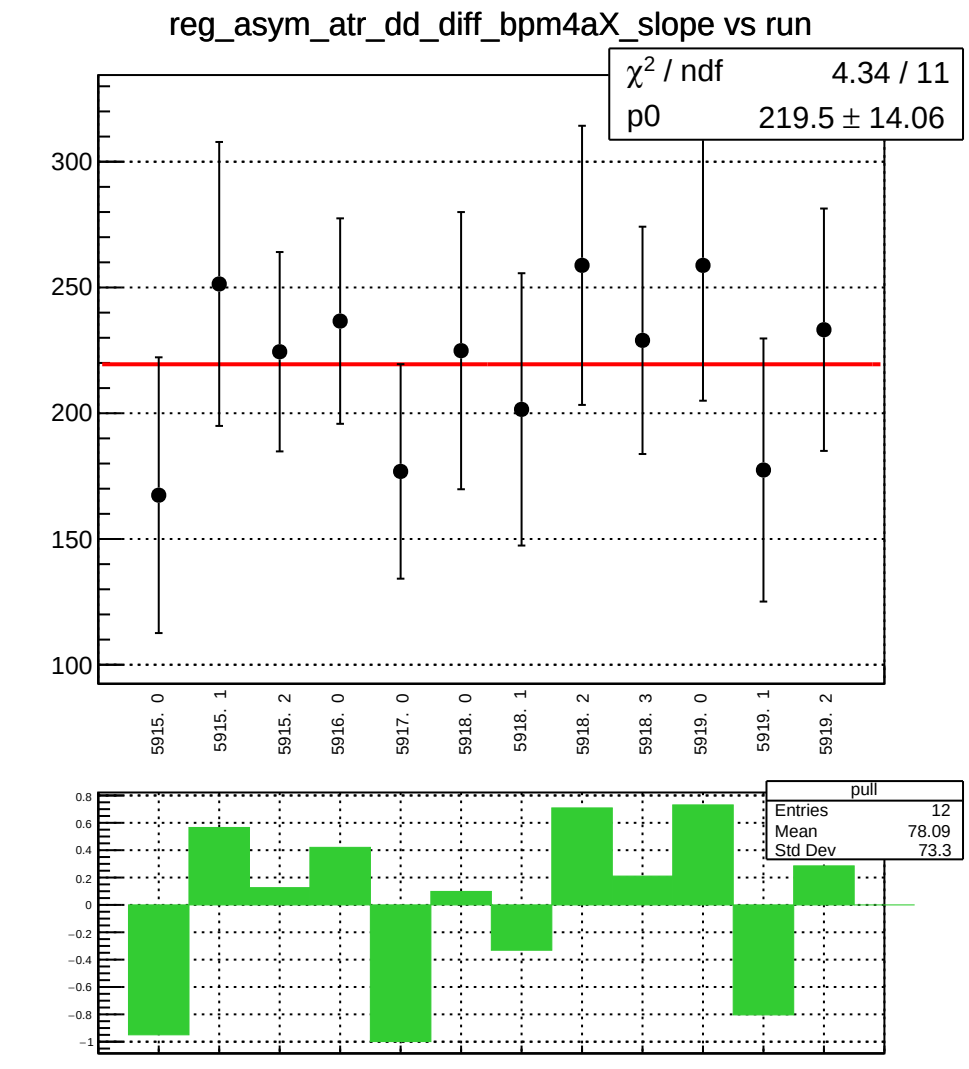

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.841 / 11
p0 427.6 ± 17.79
550
500
450
400
350
300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 21.52
Std Dev 13.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

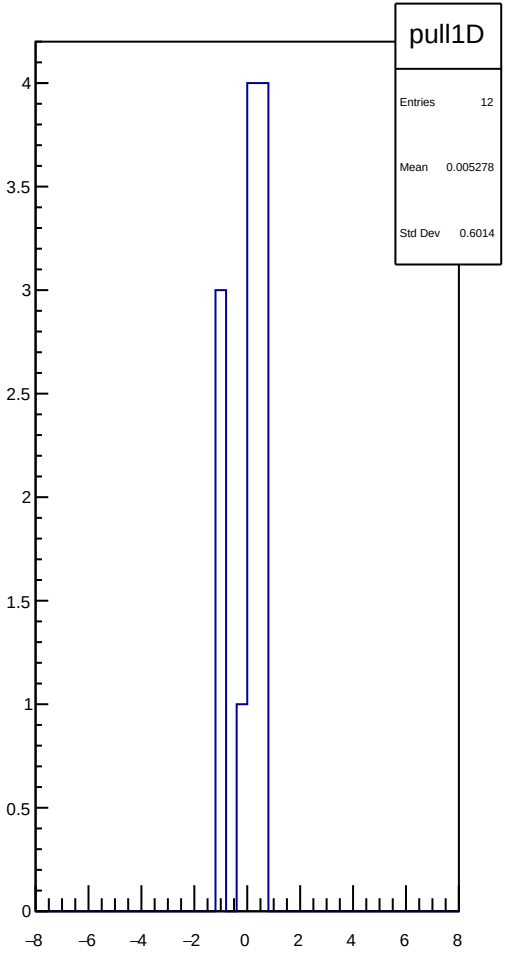

pull1D
Entries 12
Mean 0.04555
Std Dev 0.4845
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

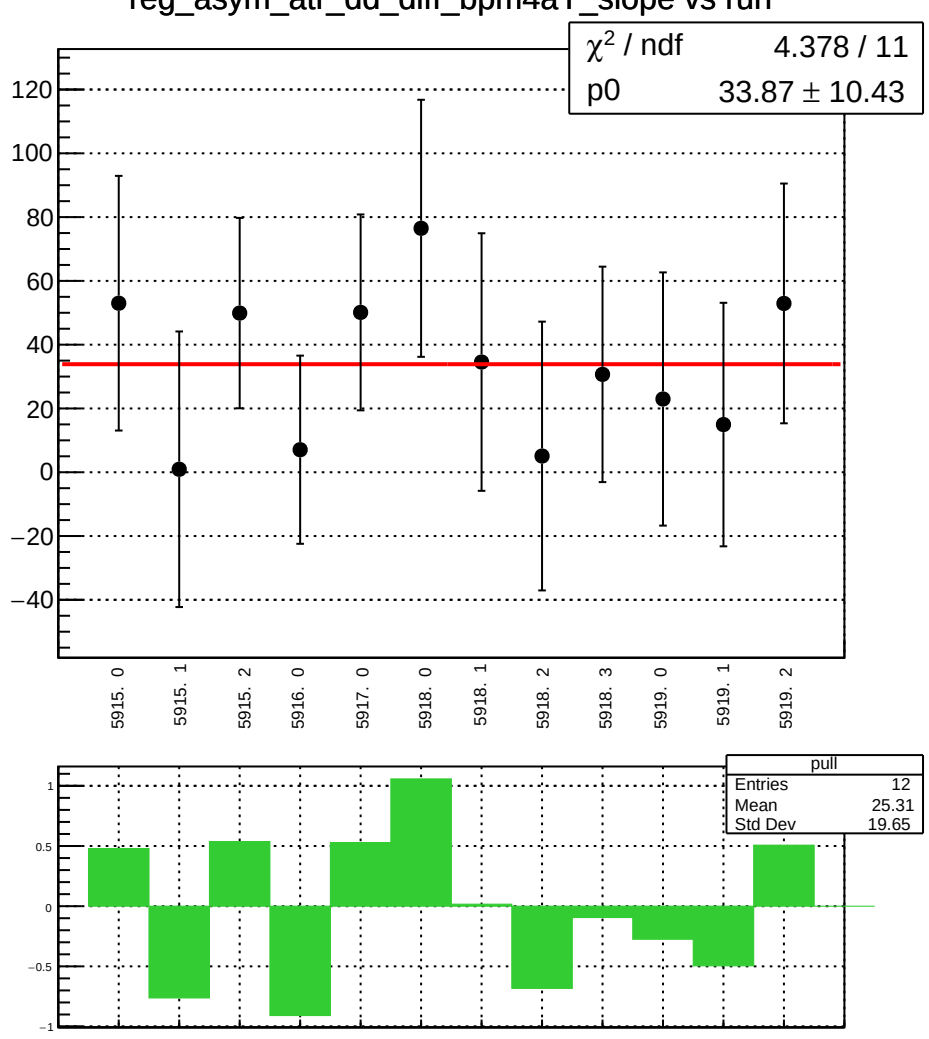

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.82 / 11
p0 57.58 ± 11.51
160
140
120
100
80
60
40
20
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.3345
Std Dev 3.931
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

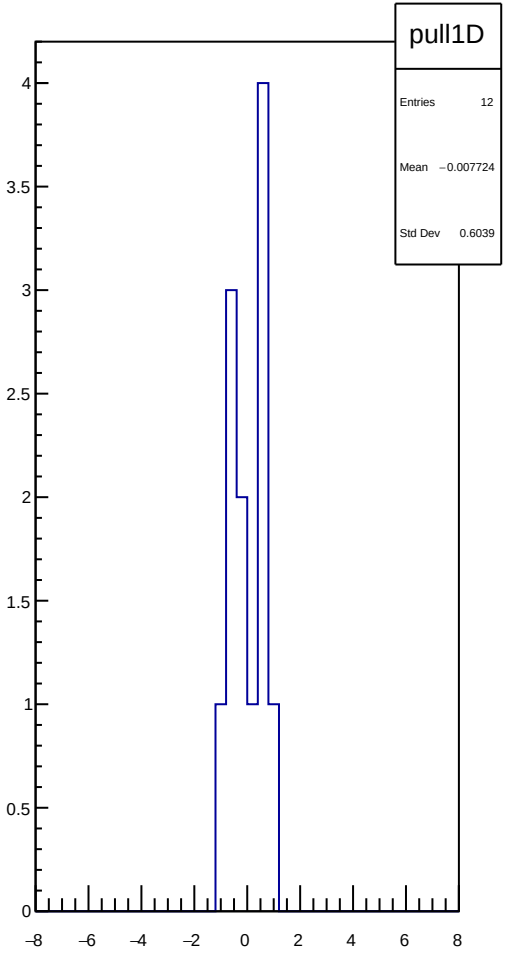

pull1D
Entries 12
Mean 0.03306
Std Dev 0.4836
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

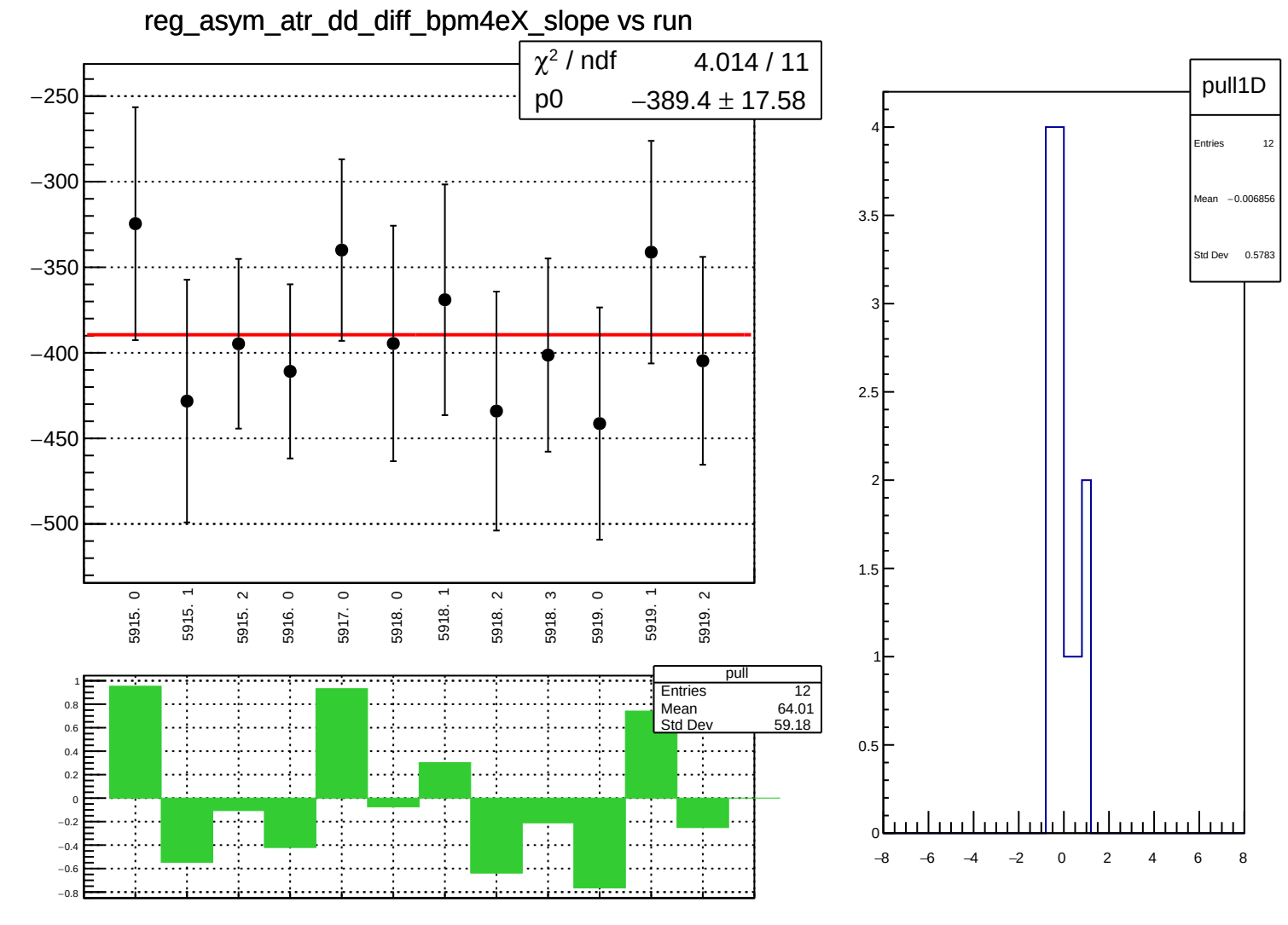

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 12.13 / 11
p0 −127.1 ± 0.7663
−120
−122
−124
−126
−128
−130
−132
−134
−136
−138
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 42.35
Std Dev 34.44
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean −0.04274
Std Dev 1.005
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

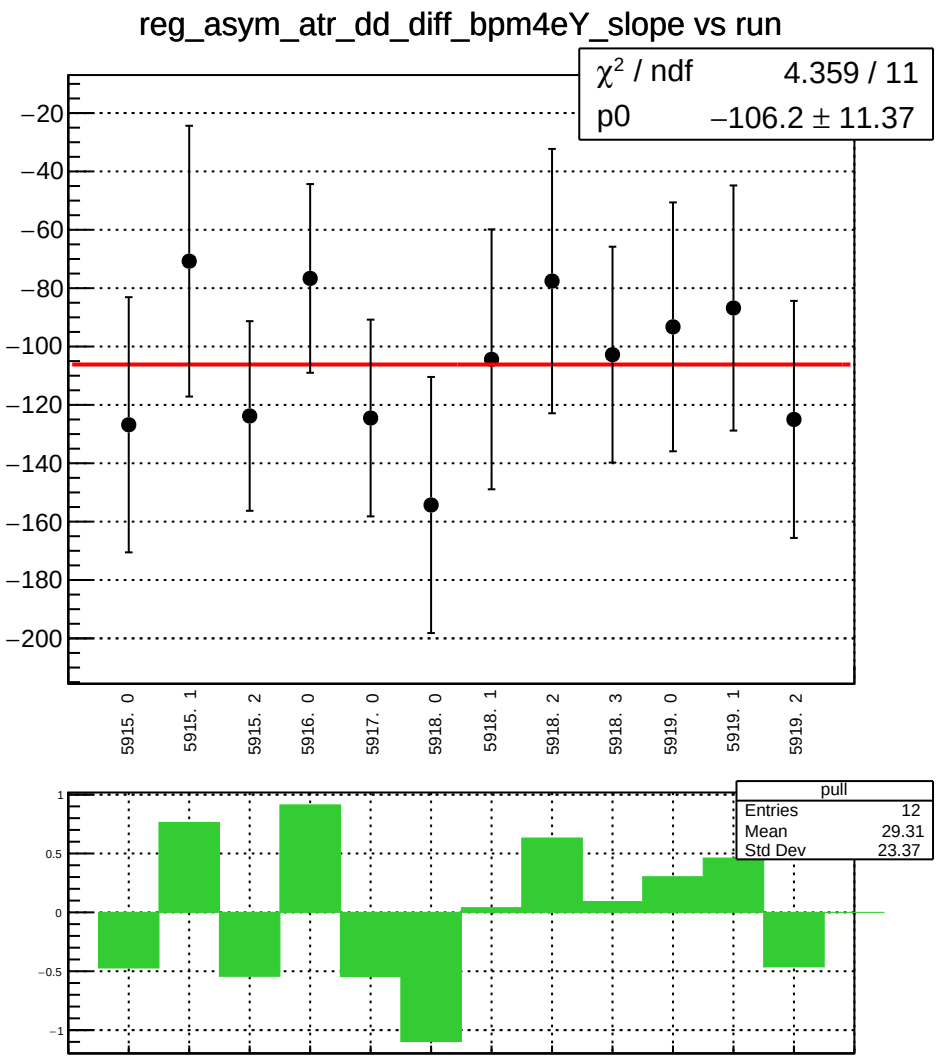

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.34 / 11
p0 219.5 ± 14.06
300
250
200
150
100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 78.09
Std Dev 73.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

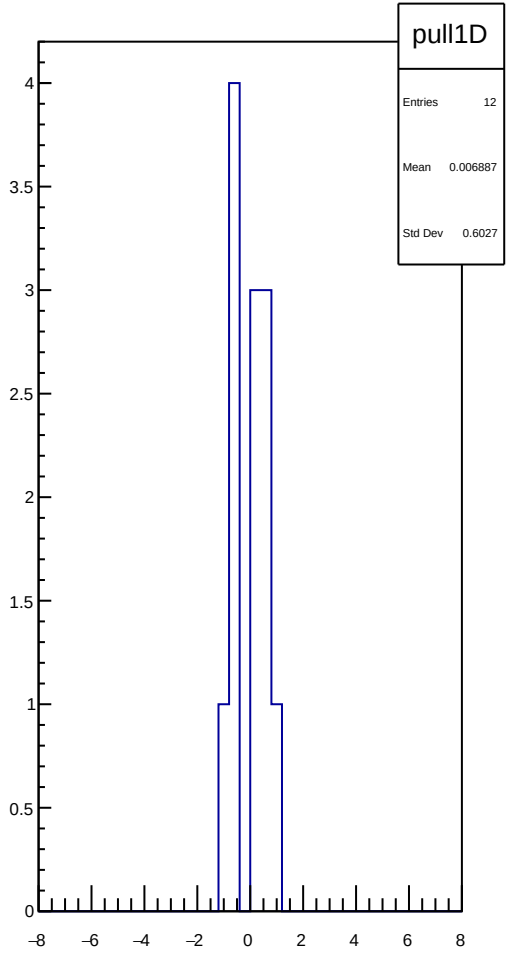

pull1D
Entries 12
Mean 0.005278
Std Dev 0.6014
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

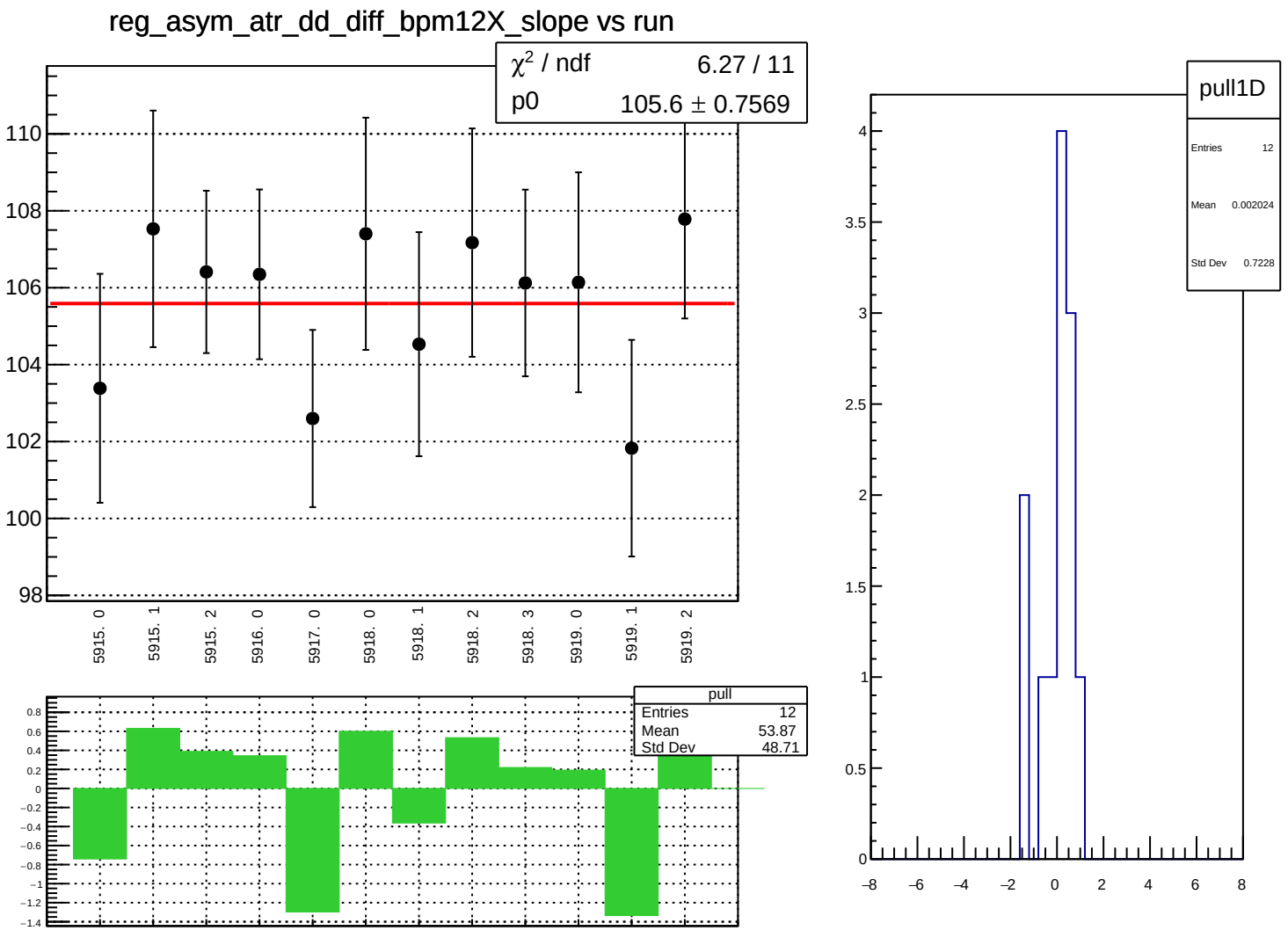

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.378 / 11
p0 33.87 ± 10.43
120
100
80
60
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 25.31
Std Dev 19.65
1
0.5
0
−0.5
−1

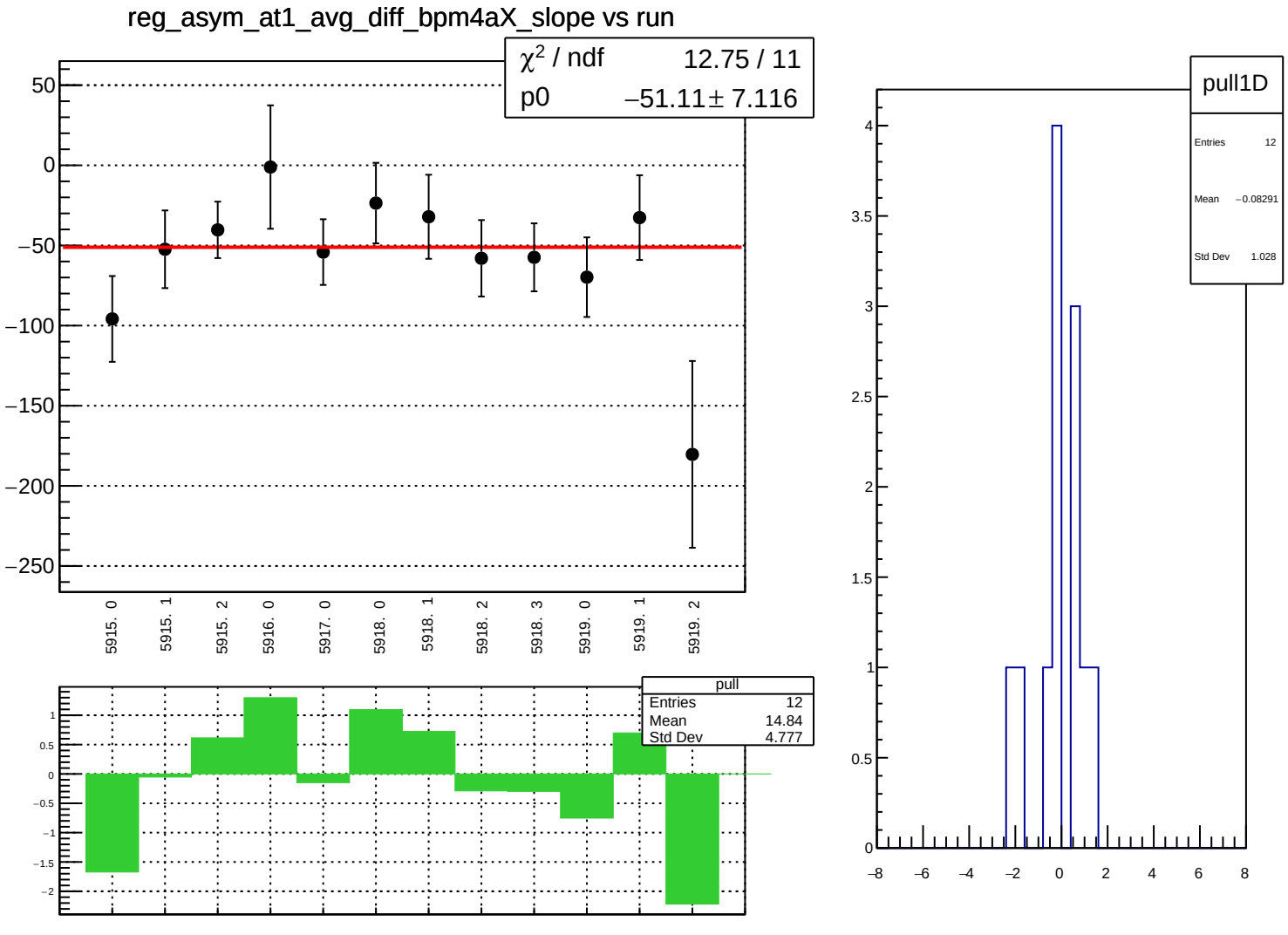

pull1D
Entries 12
Mean −0.007724
Std Dev 0.6039
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

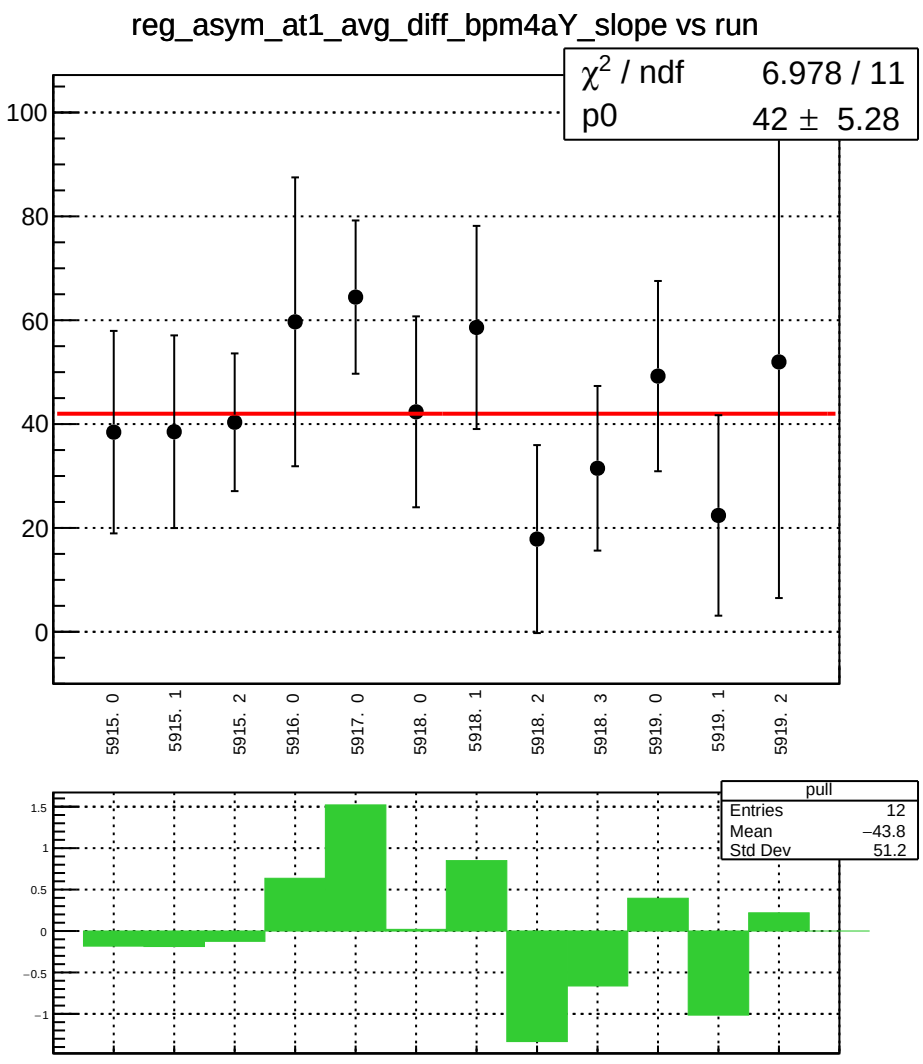

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.014 / 11
p0 −389.4 ± 17.58
−250
−300
−350
−400
−450
−500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 64.01
Std Dev 59.18
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean −0.006856
Std Dev 0.5783
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

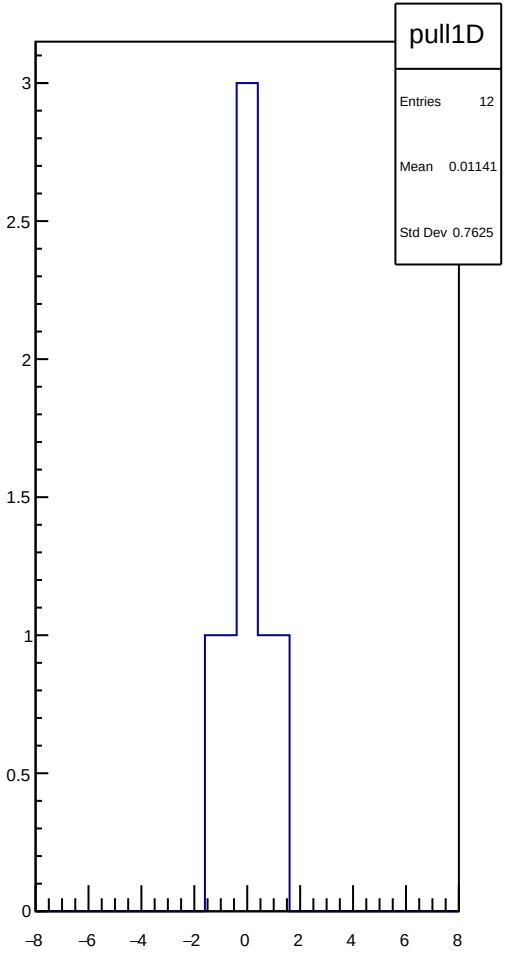

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.359 / 11
p0 −106.2 ± 11.37
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 29.31
Std Dev 23.37
1
0.5
0
−0.5
−1

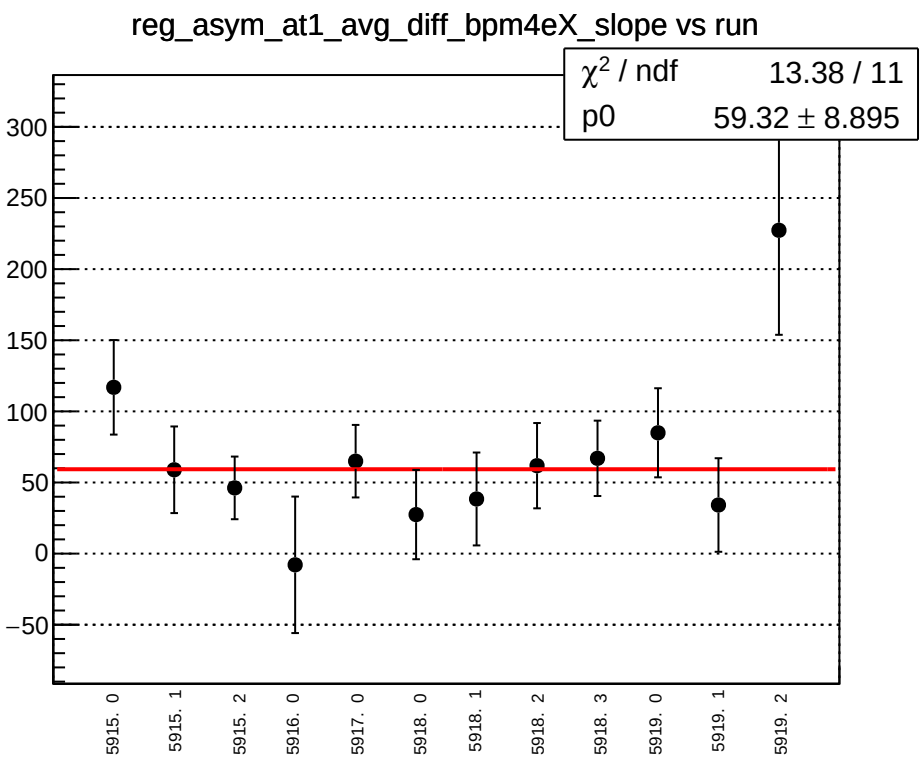

pull1D
Entries 12
Mean 0.006887
Std Dev 0.6027
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

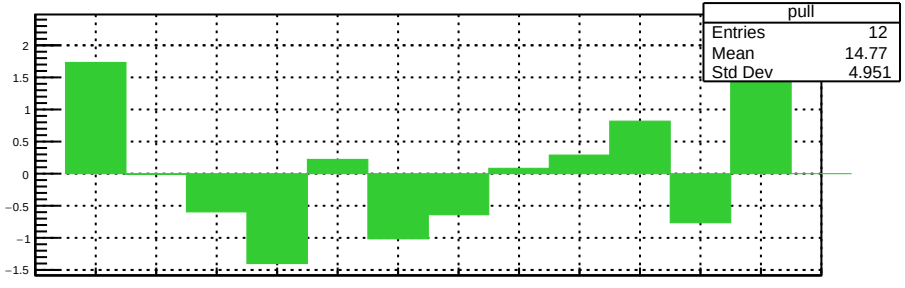

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 6.27 / 11
p0 105.6 ± 0.7569
110
108
106
104
102
100
98
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 53.87
Std Dev 48.71
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 12
Mean 0.002024
Std Dev 0.7228
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

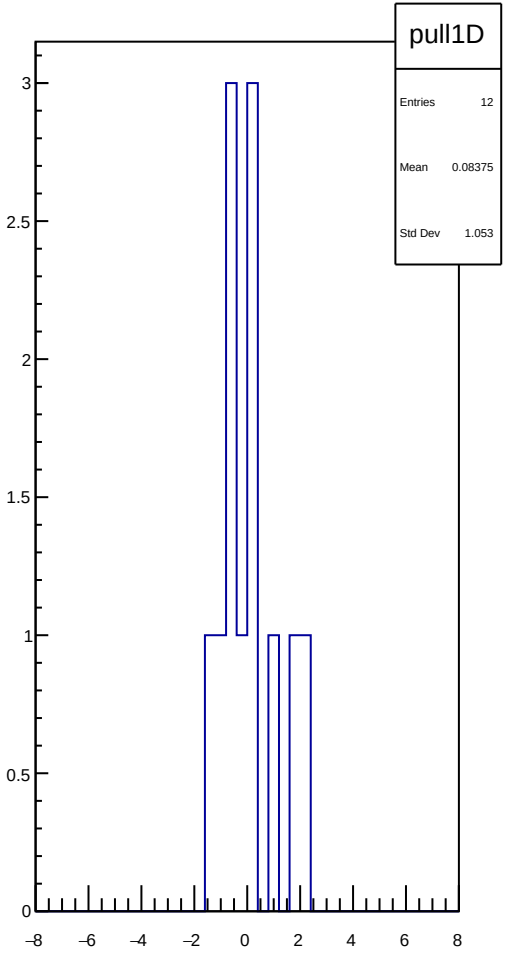

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.75 / 11
p0 −51.11± 7.116
50
0
−50
−100
−150
−200
−250
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 14.84
Std Dev 4.777
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean −0.08291
Std Dev 1.028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

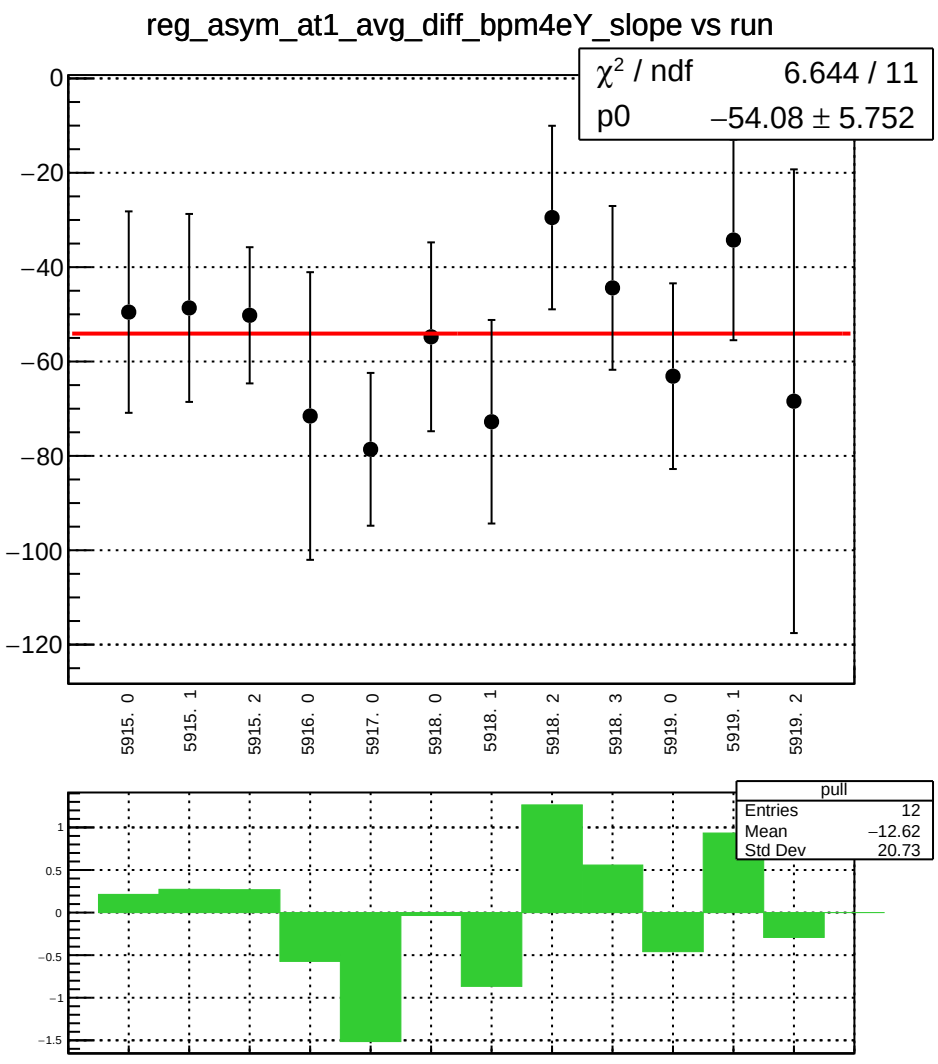

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.978 / 11
p0 42 ± 5.28
100
80
60
40
20
0
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −43.8
Std Dev 51.2
1.5
1
0.5
0
−0.5
−1

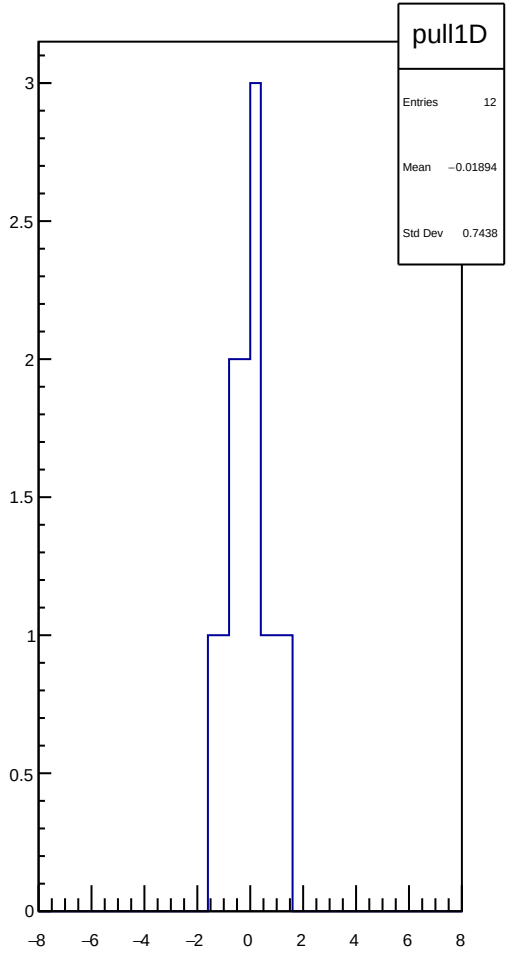

pull1D
Entries 12
Mean 0.01141
Std Dev 0.7625
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

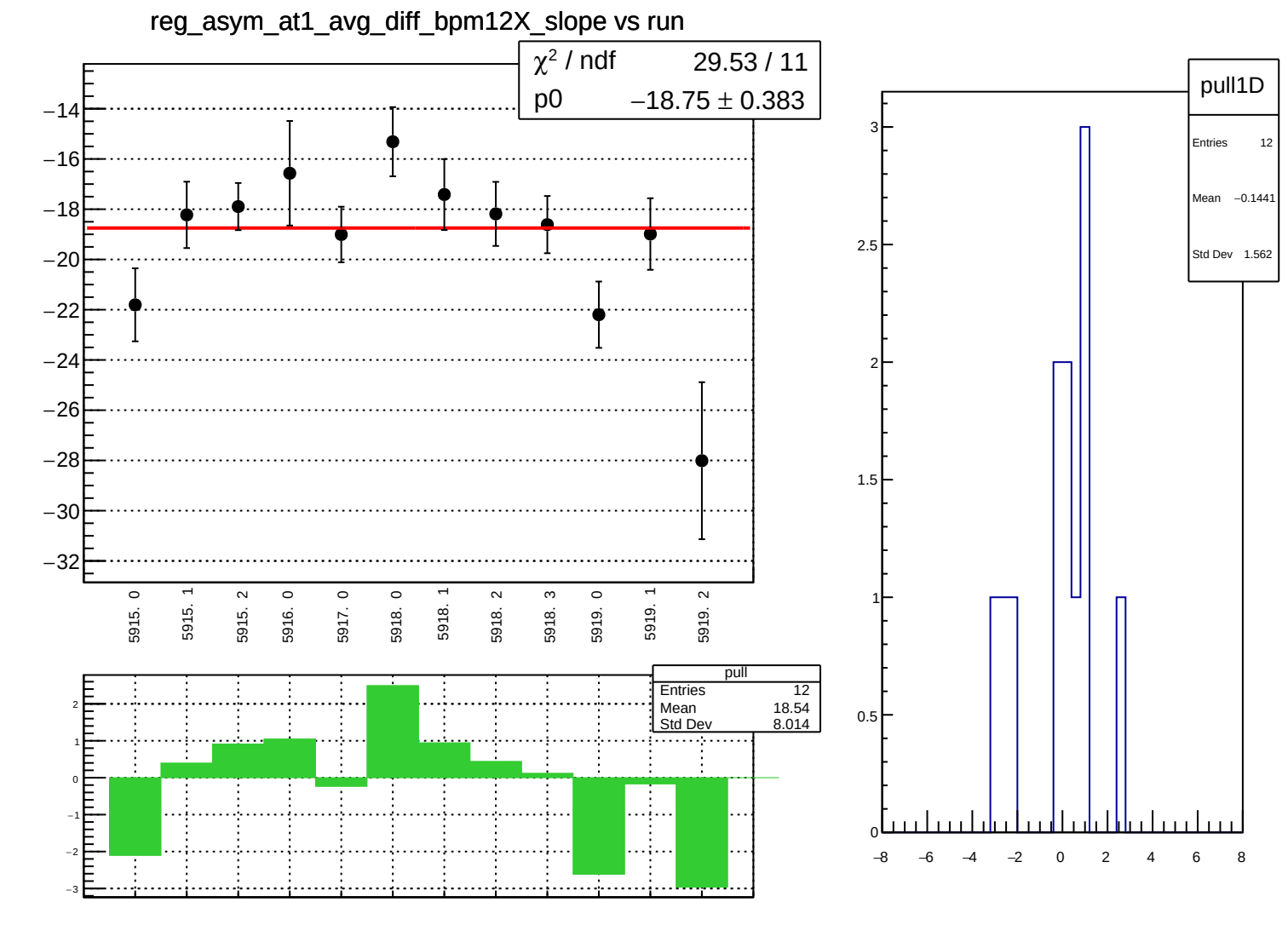

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.38 / 11
p0 59.32 ± 8.895
300
250
200
150
100
50
0
−50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

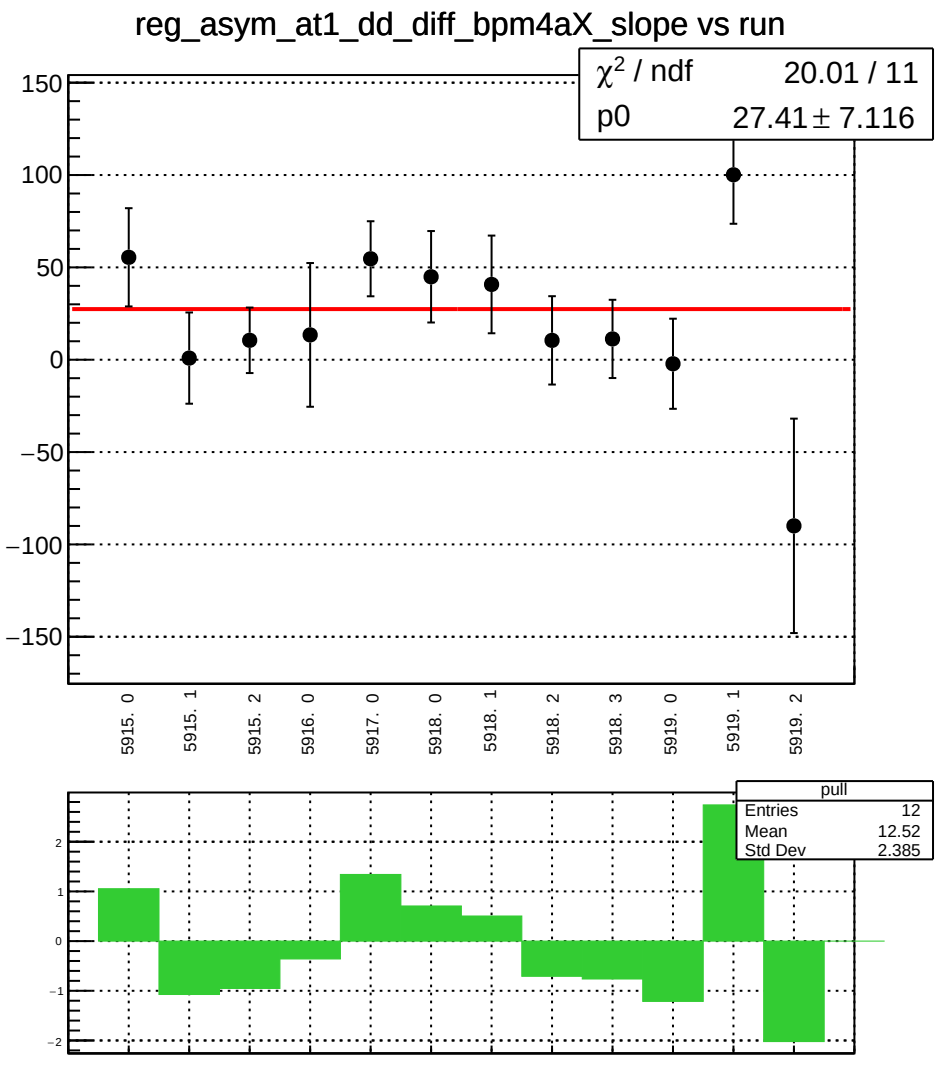

pull
Entries 12
Mean 14.77
Std Dev 4.951
2
1.5
1
0.5
0
−0.5
−1
−1.5

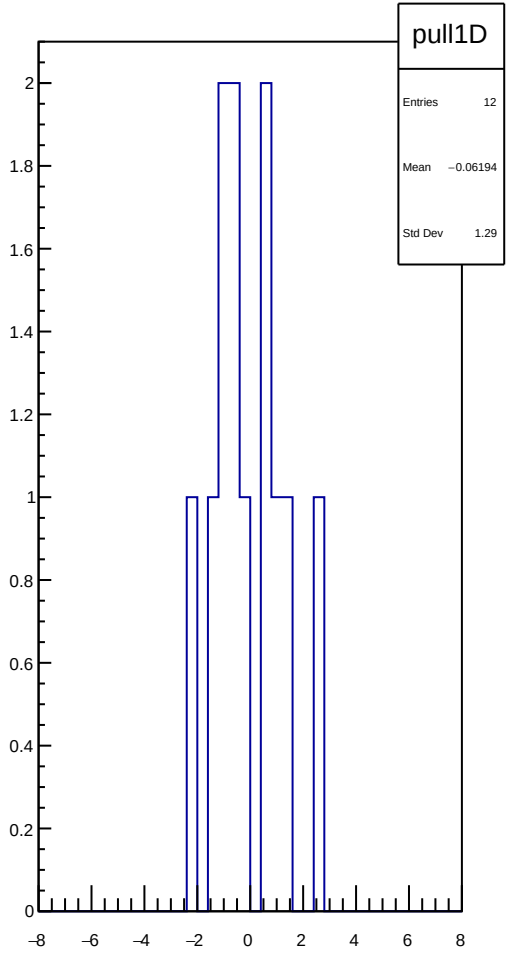

pull1D
Entries 12
Mean 0.08375
Std Dev 1.053
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

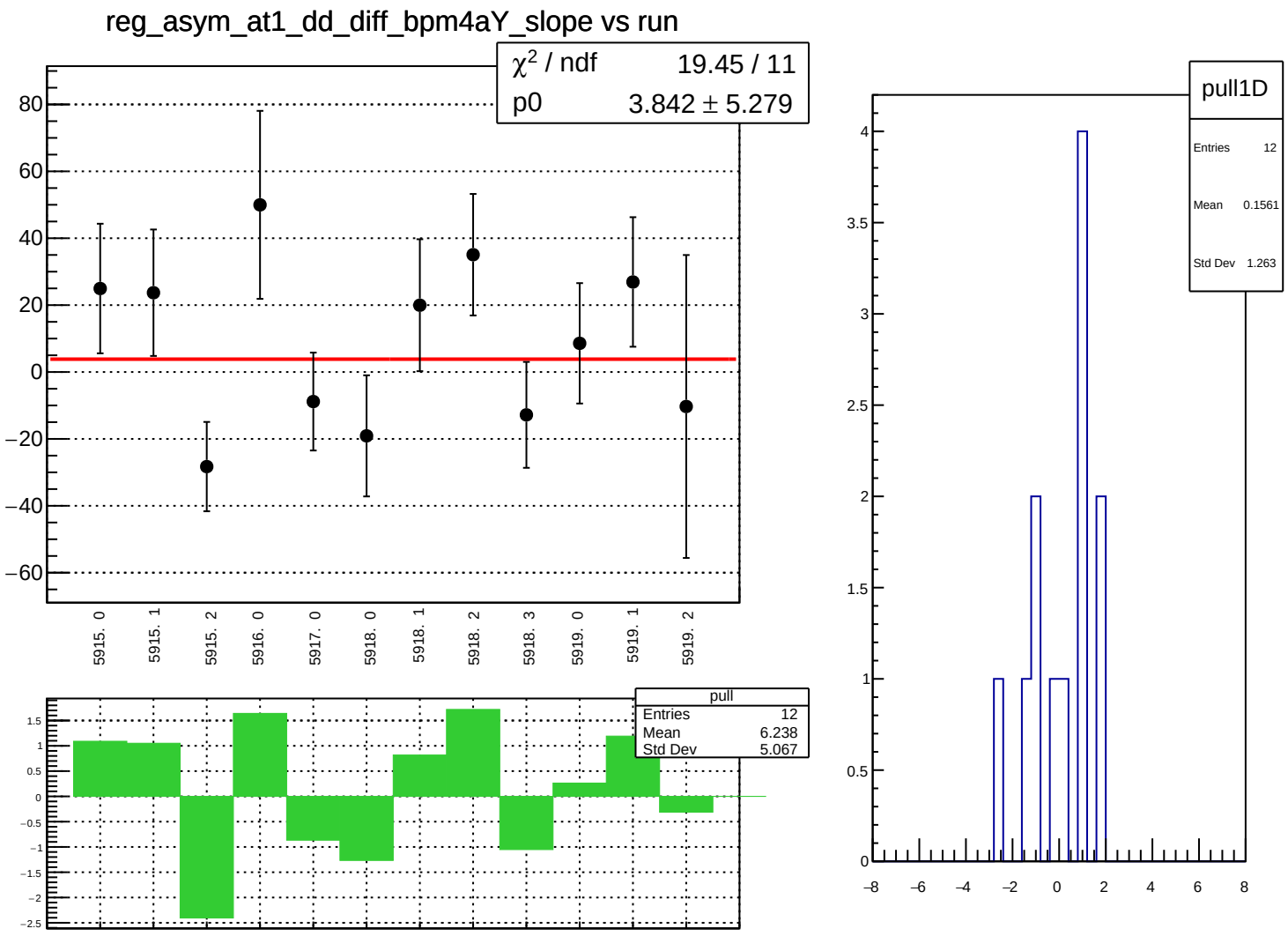

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.644 / 11
p0 −54.08 ± 5.752
0
−20
−40
−60
−80
−100
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −12.62
Std Dev 20.73
1
0.5
0
−0.5
−1
−1.5

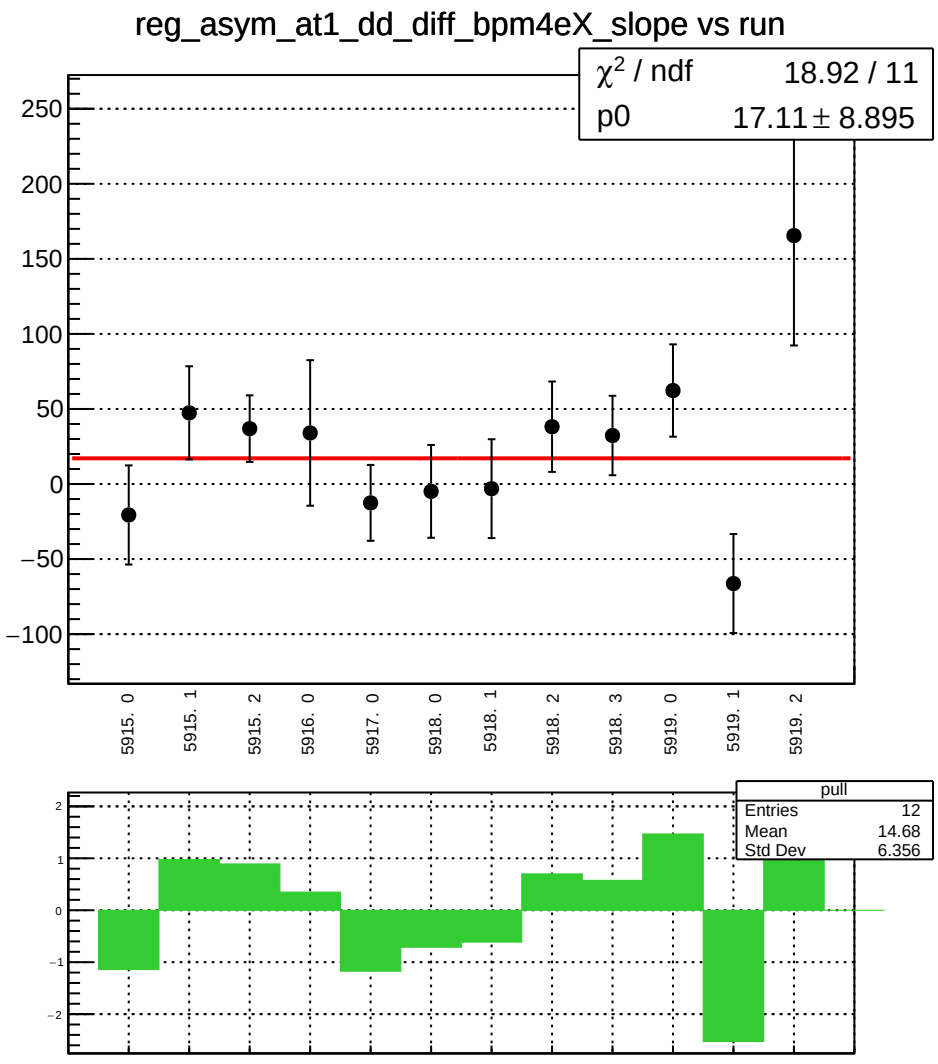

pull1D
Entries 12
Mean −0.01894
Std Dev 0.7438
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

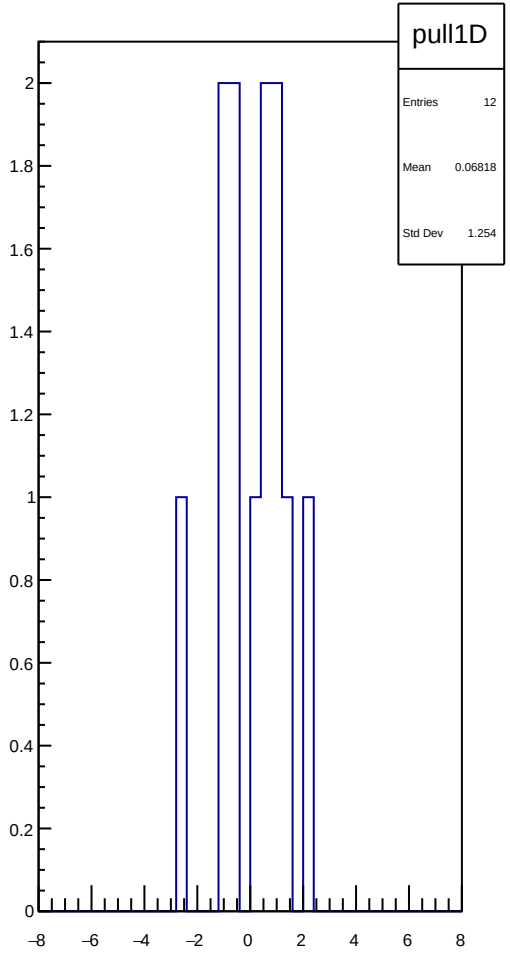

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 29.53 / 11
p0 −18.75 ± 0.383
−14
−16
−18
−20
−22
−24
−26
−28
−30
−32
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 18.54
Std Dev 8.014
2
1
0
−1
−2
−3
pull1D
Entries 12
Mean −0.1441
Std Dev 1.562
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

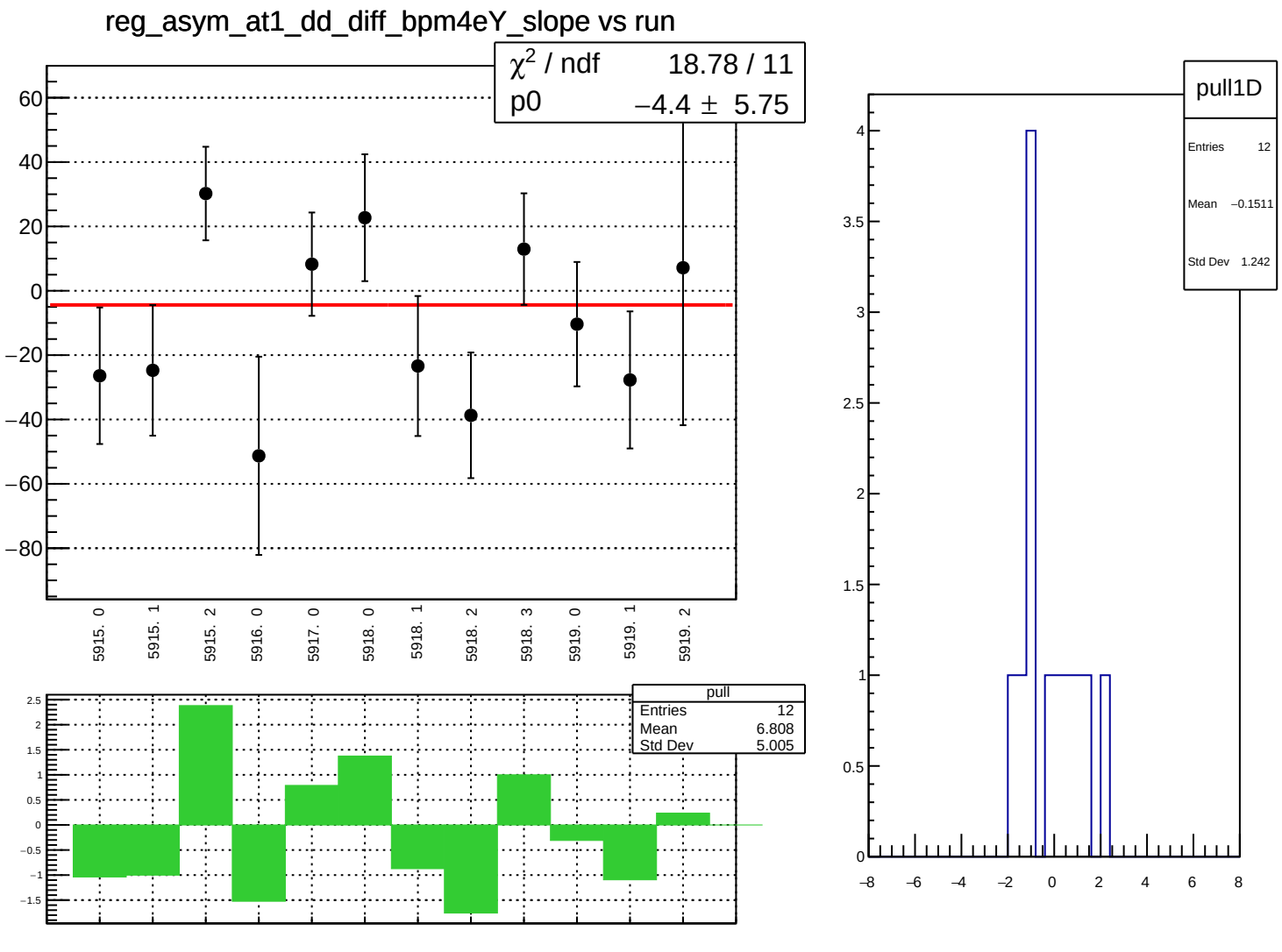

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.01 / 11
p0 27.41 ± 7.116
150
100
50
0
−50
−100
−150
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.52
Std Dev 2.385
2
1
0
−1
−2

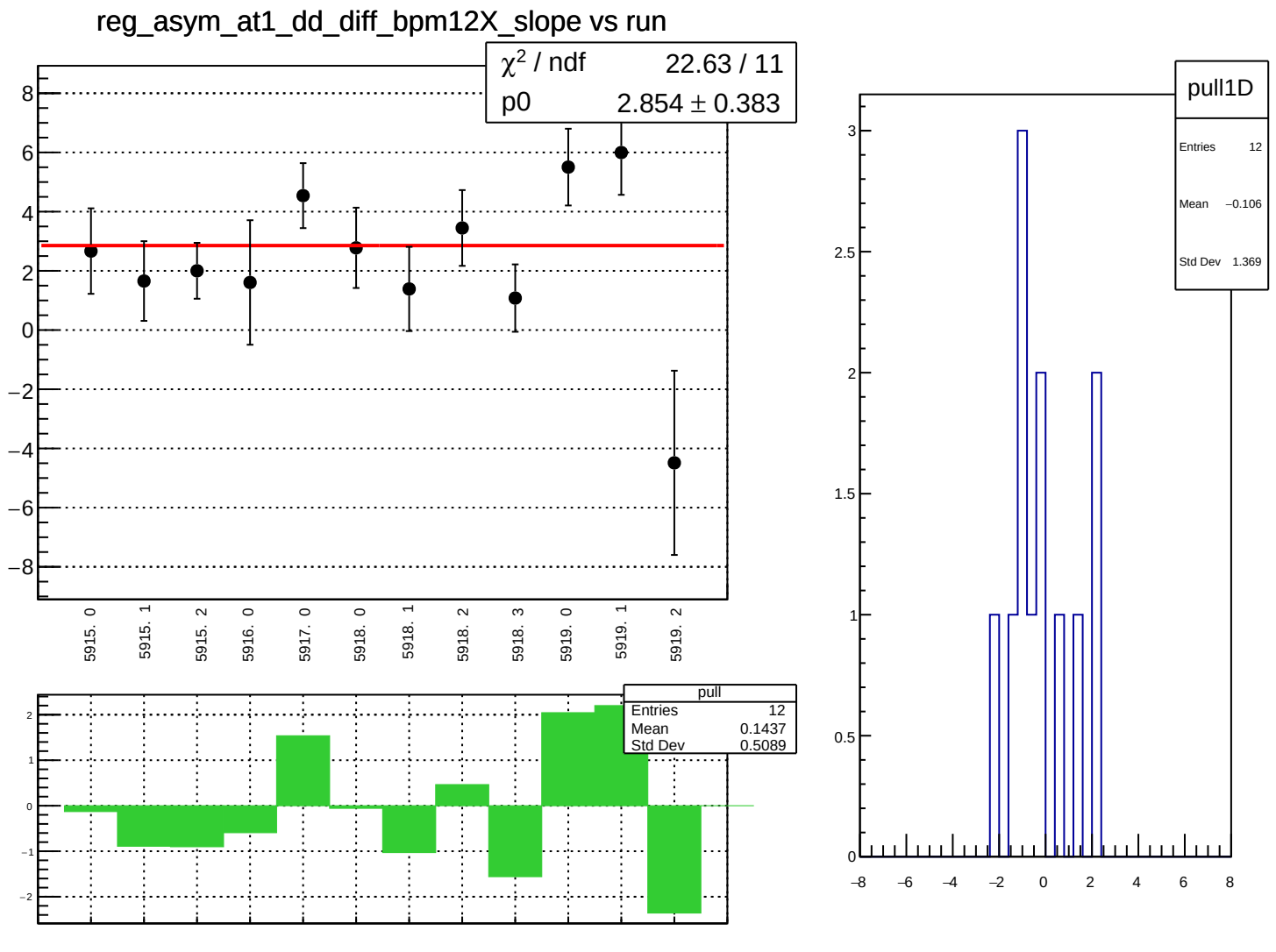

pull1D
Entries 12
Mean −0.06194
Std Dev 1.29
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

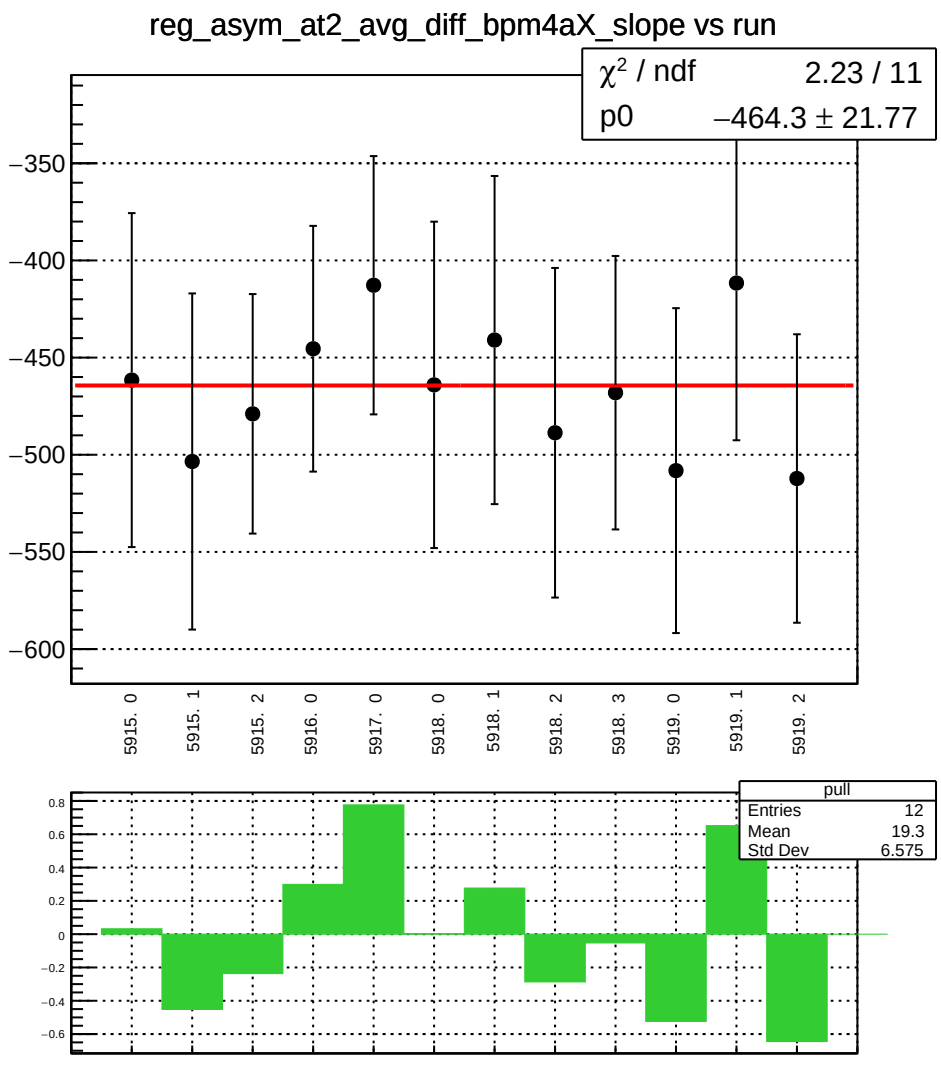

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.45 / 11
p0 3.842 ± 5.279
80
60
40
20
0
−20
−40
−60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 6.238
Std Dev 5.067
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean 0.1561
Std Dev 1.263
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

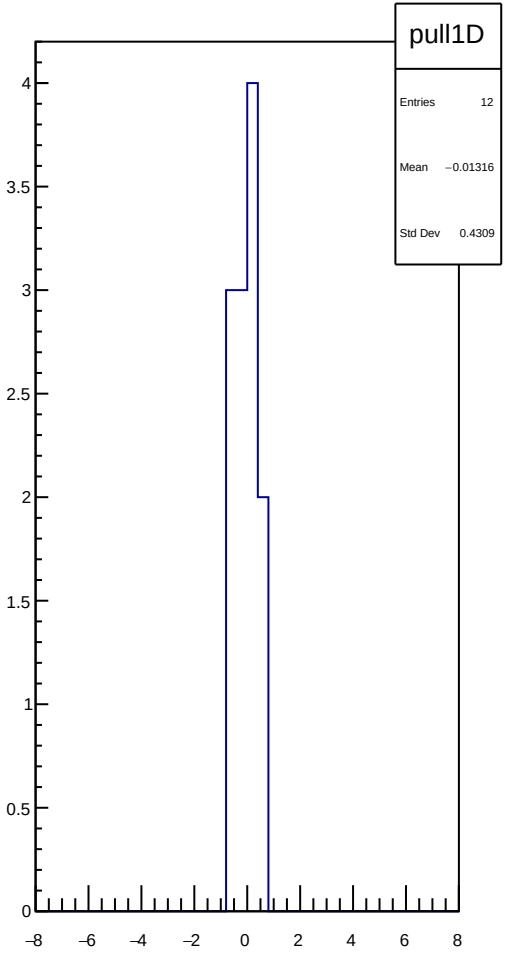

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.92 / 11
p0 17.11 ± 8.895
250
200
150
100
50
0
−50
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 14.68
Std Dev 6.356
2
1
0
−1
−2

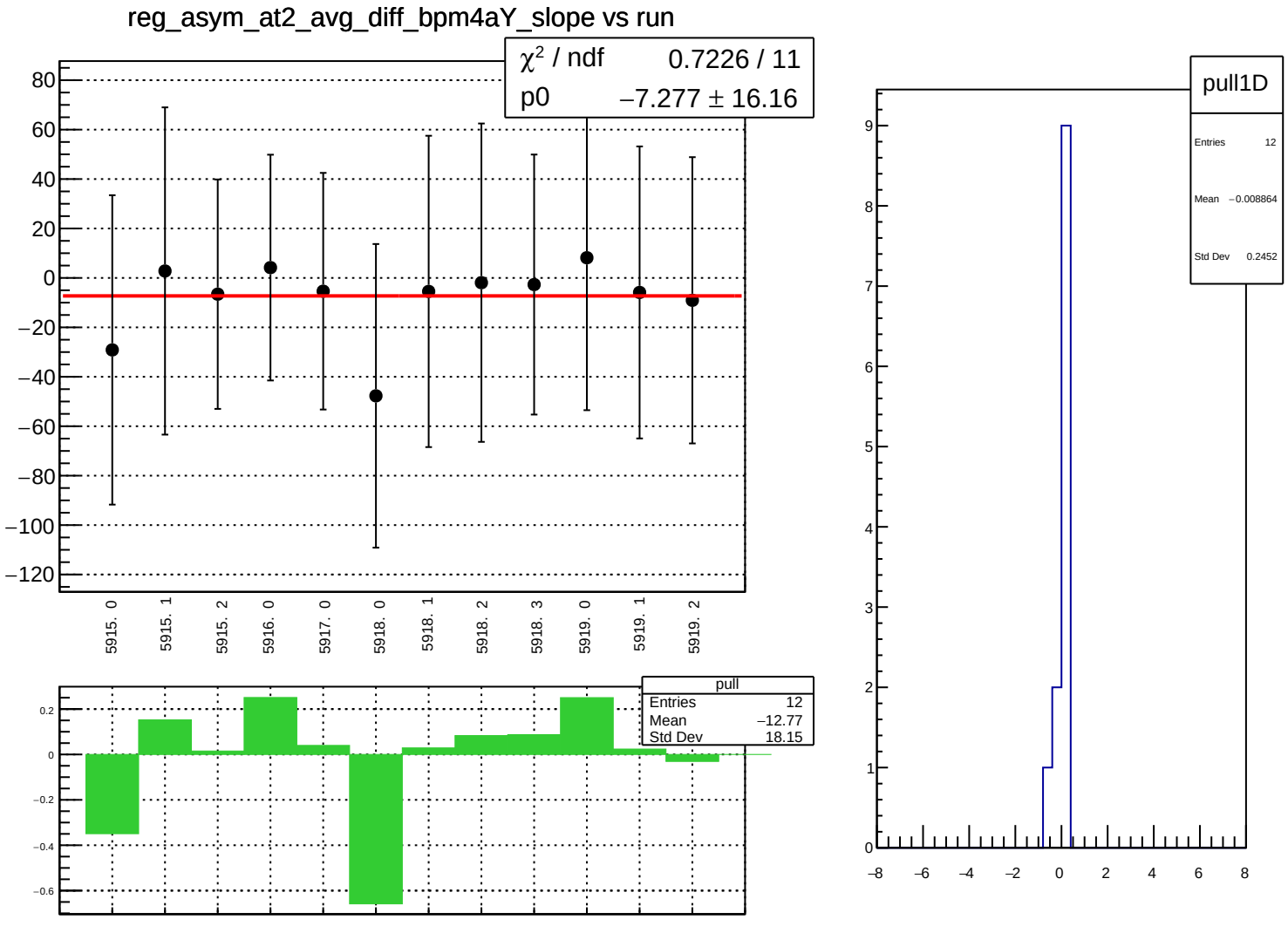

pull1D
Entries 12
Mean 0.06818
Std Dev 1.254
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

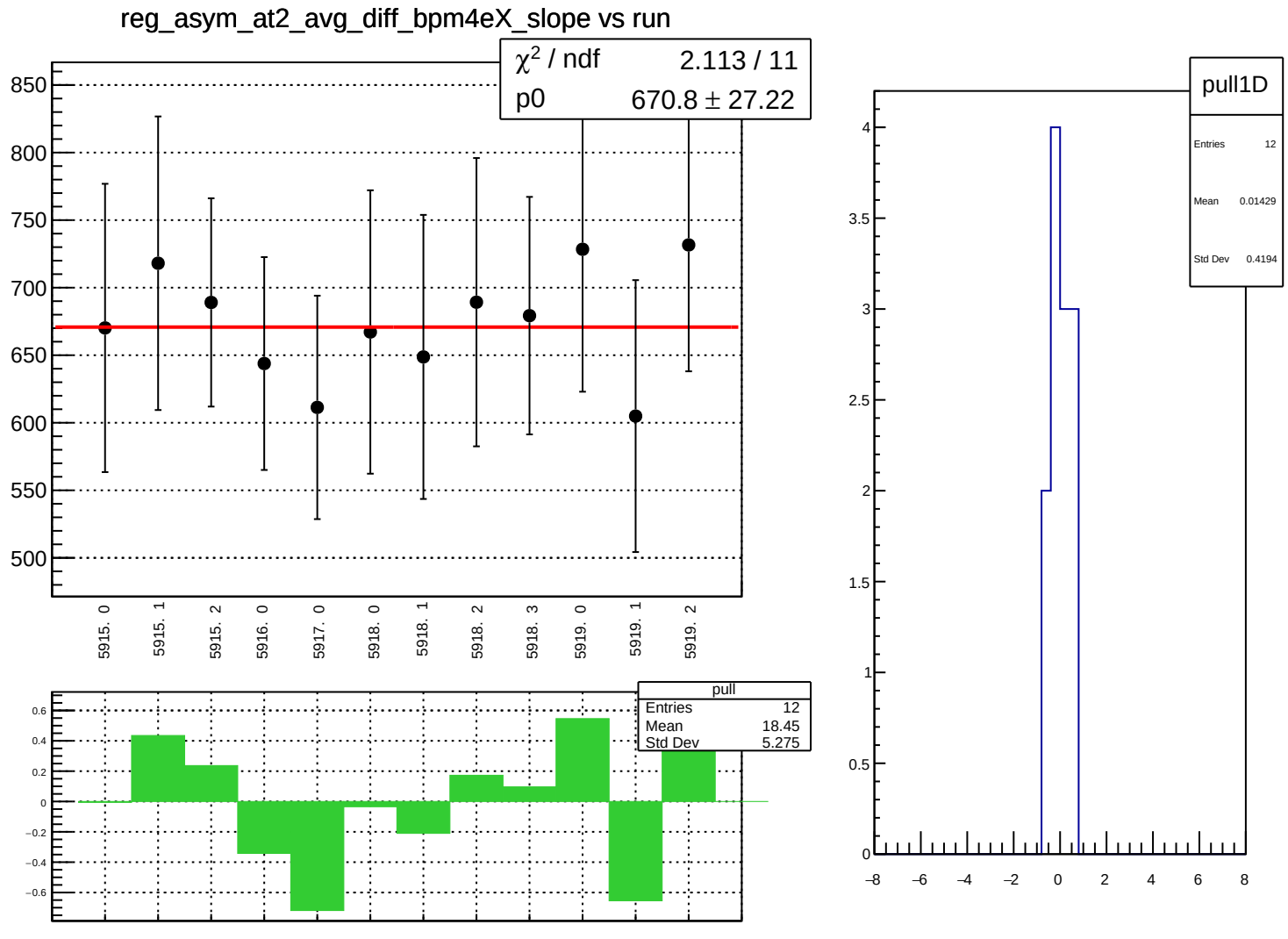

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.78 / 11
p0 −4.4 ± 5.75
60
40
20
0
−20
−40
−60
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 6.808
Std Dev 5.005
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.1511
Std Dev 1.242
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

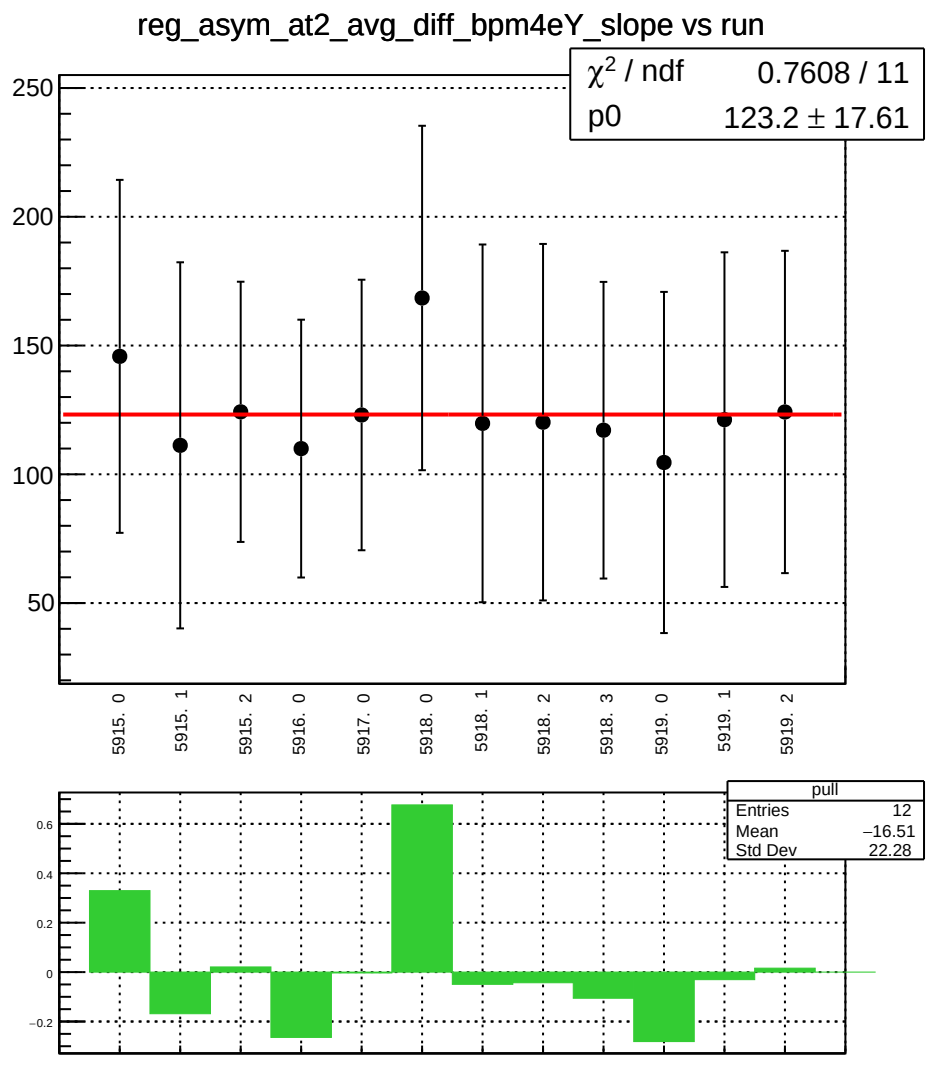

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 22.63 / 11
p0 2.854 ± 0.383
8
6
4
2
0
−2
−4
−6
−8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.1437
Std Dev 0.5089
2
1
0
−1
−2
pull1D
Entries 12
Mean −0.106
Std Dev 1.369
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

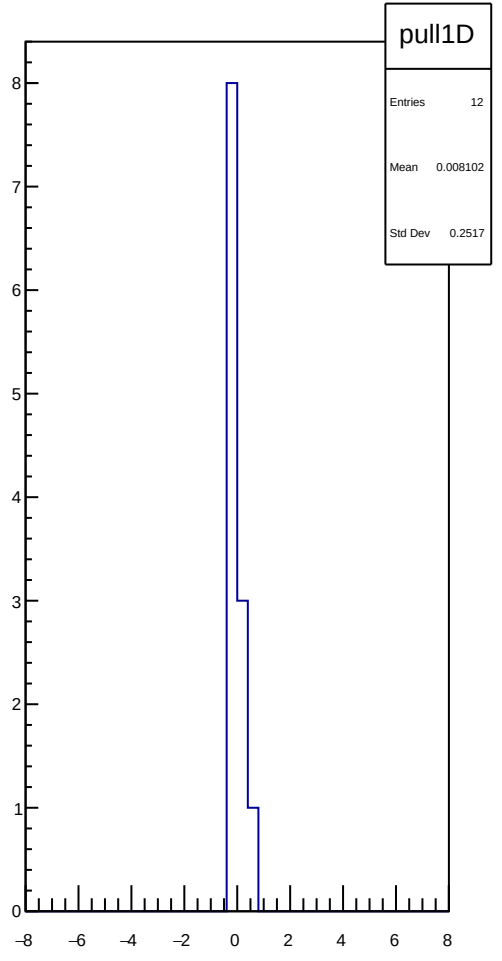

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.23 / 11
p0 −464.3 ± 21.77
−350
−400
−450
−500
−550
−600
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 19.3
Std Dev 6.575
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

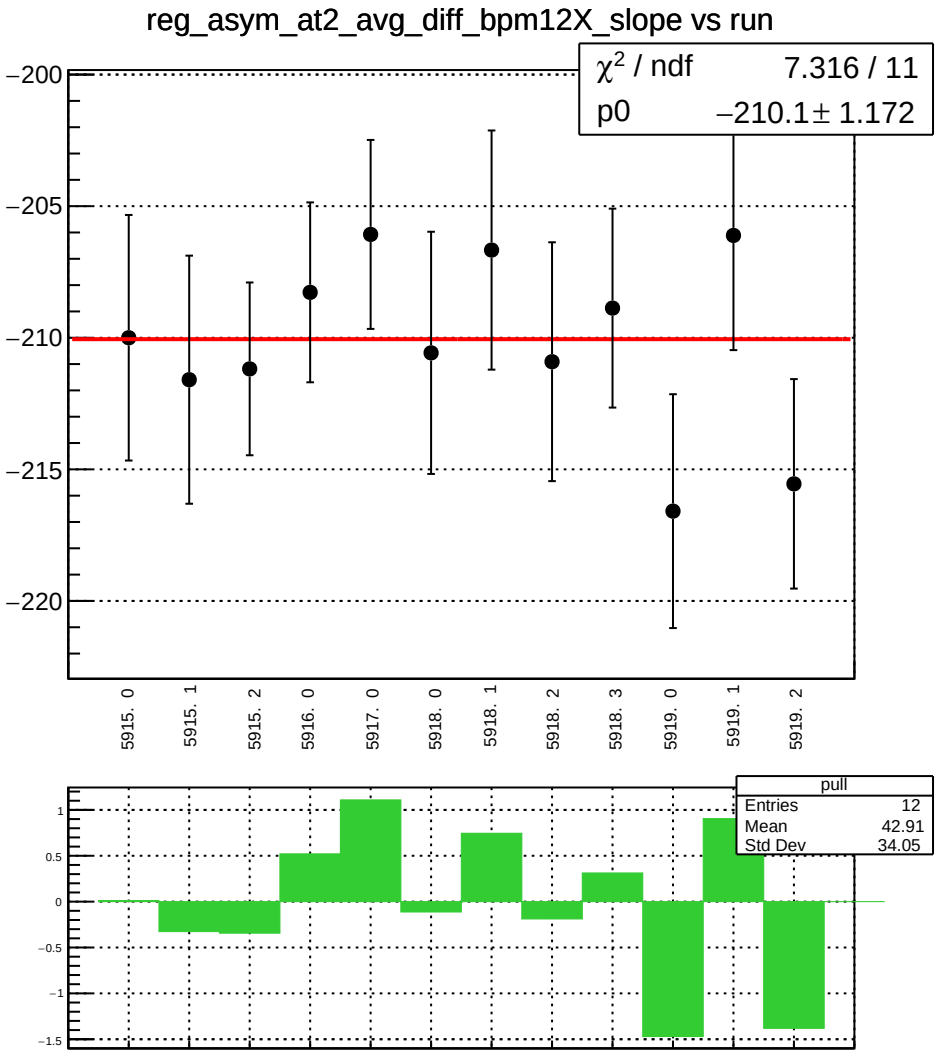

pull1D
Entries 12
Mean −0.01316
Std Dev 0.4309
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

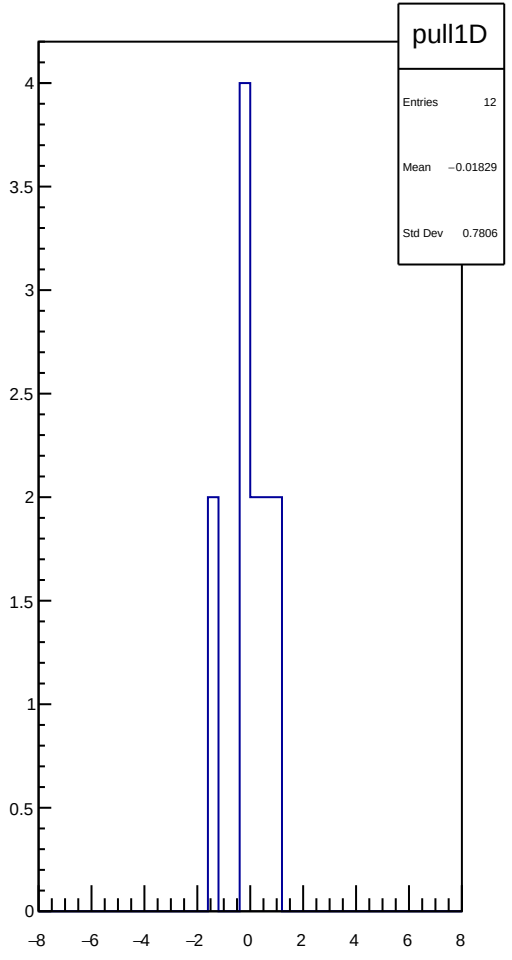

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.7226 / 11
p0 −7.277 ± 16.16
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −12.77
Std Dev 18.15
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.008864
Std Dev 0.2452
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

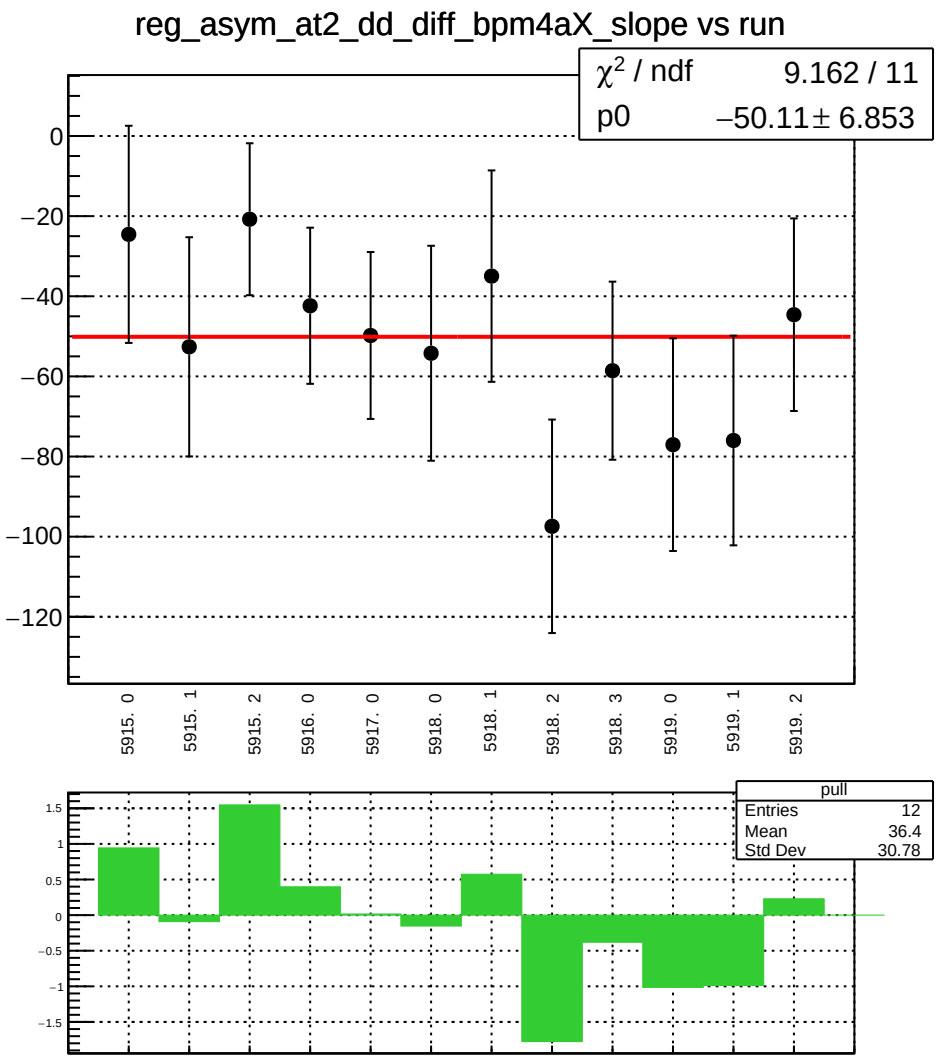

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.113 / 11
p0 670.8 ± 27.22
850
800
750
700
650
600
550
500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 18.45
Std Dev 5.275
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean 0.01429
Std Dev 0.4194
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

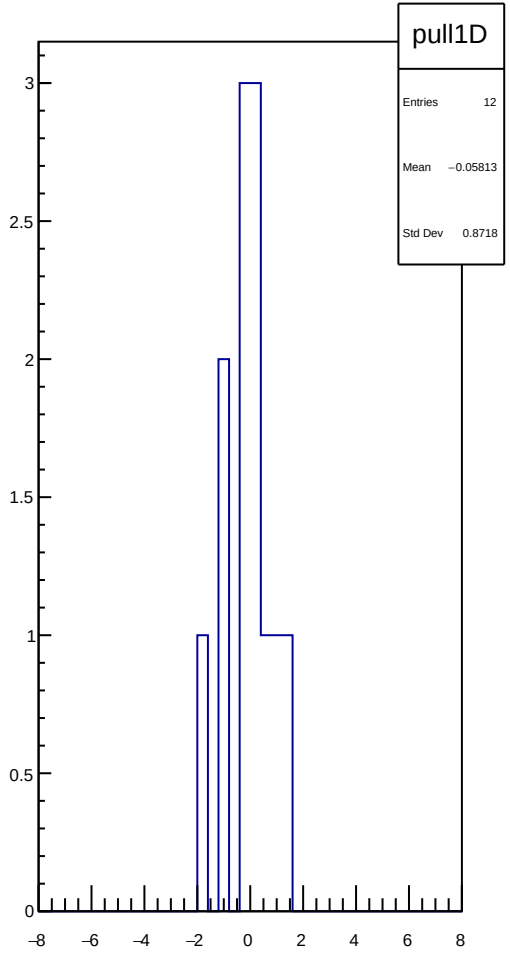

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.7608 / 11
p0 123.2 ± 17.61
250
200
150
100
50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −16.51
Std Dev 22.28
0.6
0.4
0.2
0
−0.2

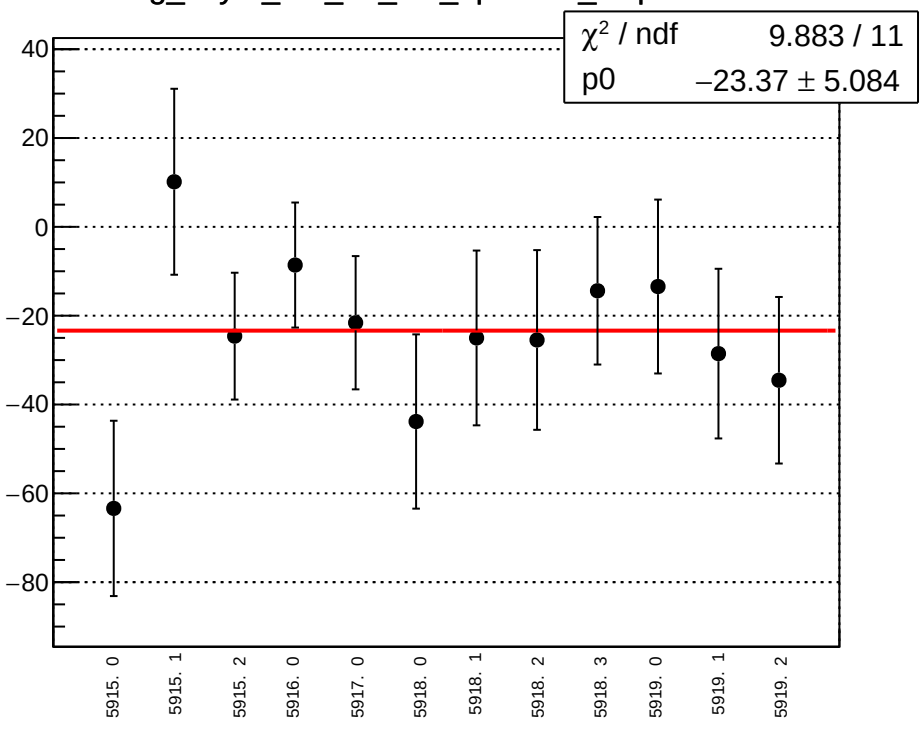

pull1D
Entries 12
Mean 0.008102
Std Dev 0.2517
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

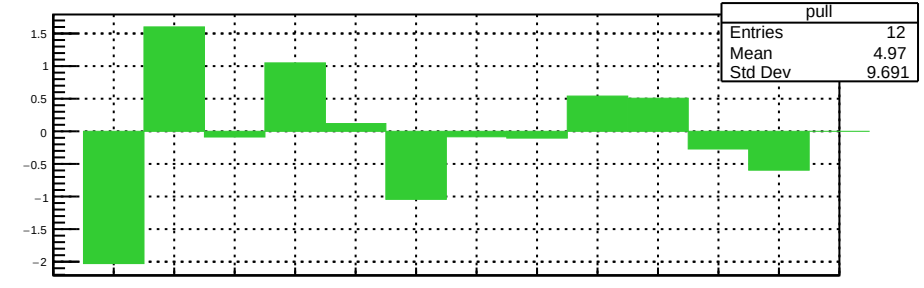

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 7.316 / 11
p0 −210.1± 1.172
−200
−205
−210
−215
−220
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 42.91
Std Dev 34.05
1
0.5
0
−0.5
−1
−1.5

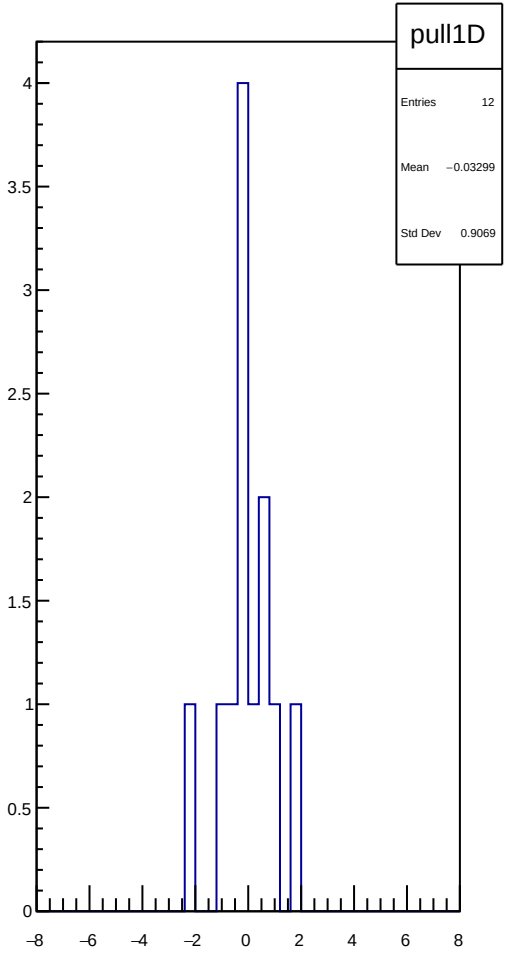

pull1D
Entries 12
Mean −0.01829
Std Dev 0.7806
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

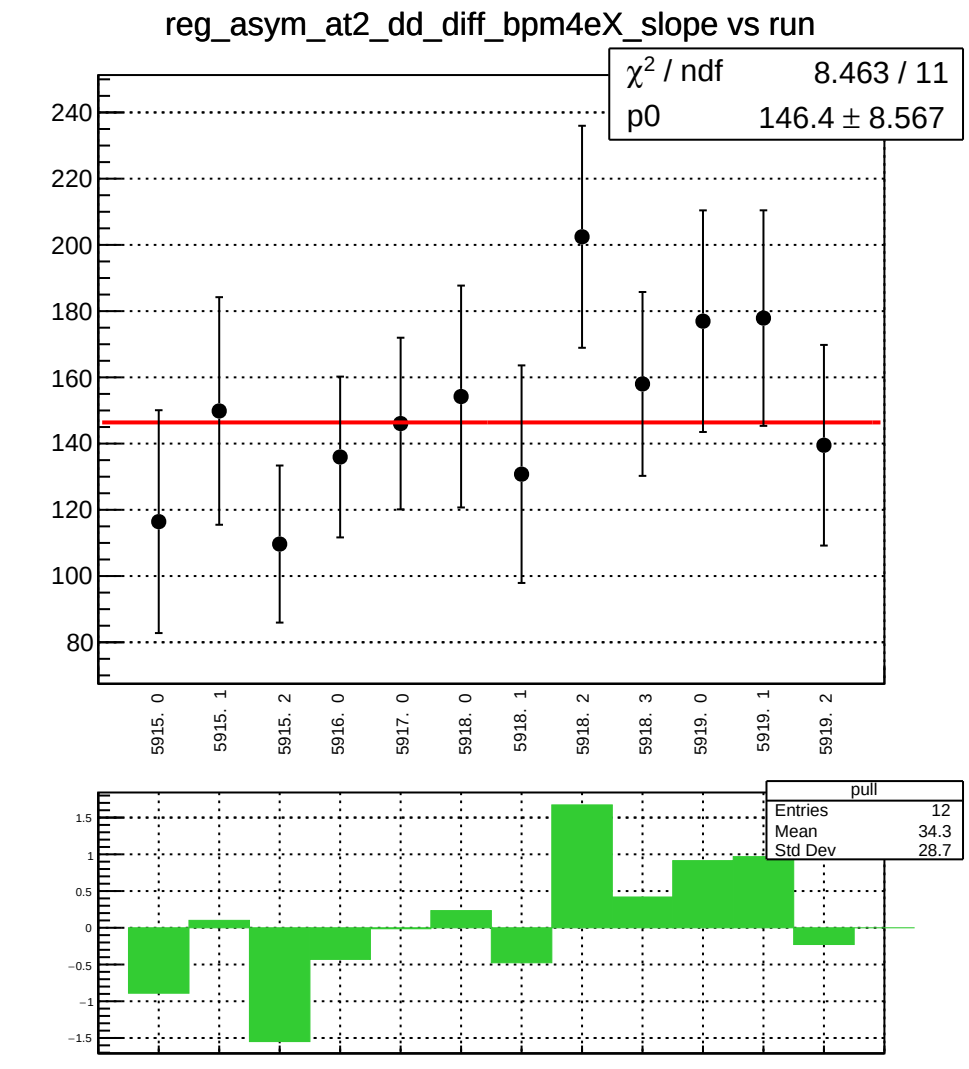

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.162 / 11
p0 −50.11 ± 6.853
0
−20
−40
−60
−80
−100
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 36.4
Std Dev 30.78
1.5
1
0.5
0
−0.5
−1
−1.5

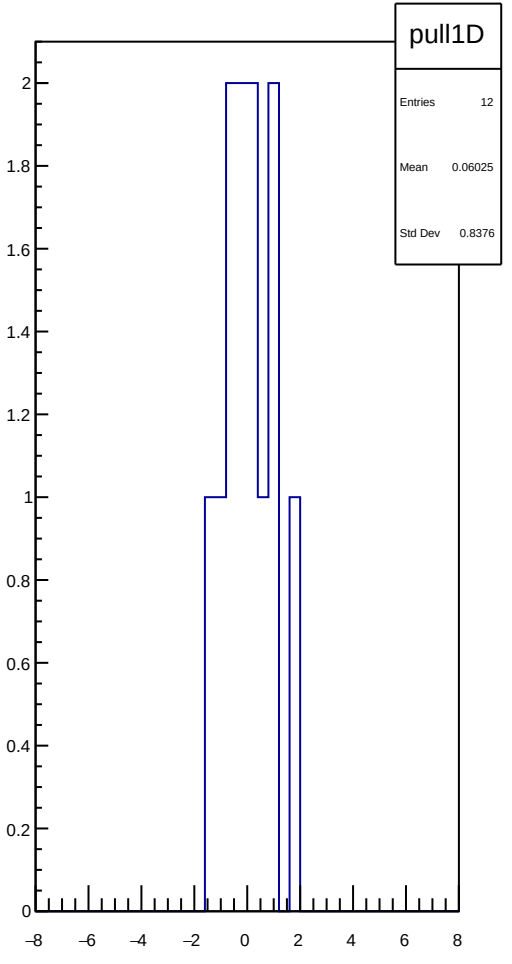

pull1D
Entries 12
Mean −0.05813
Std Dev 0.8718
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

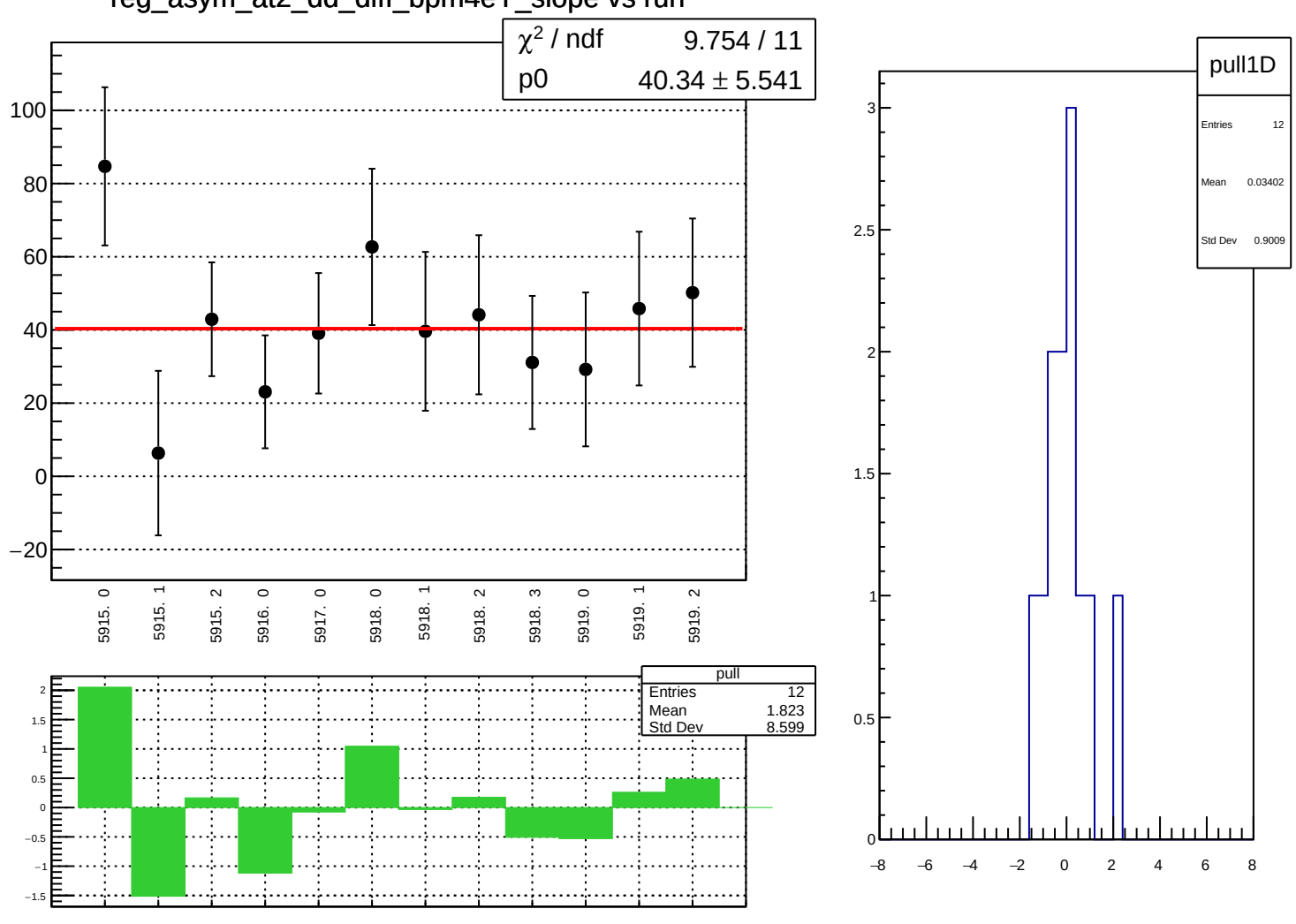

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.883 / 11
p0 −23.37 ± 5.084
40
20
0
−20
−40
−60
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2

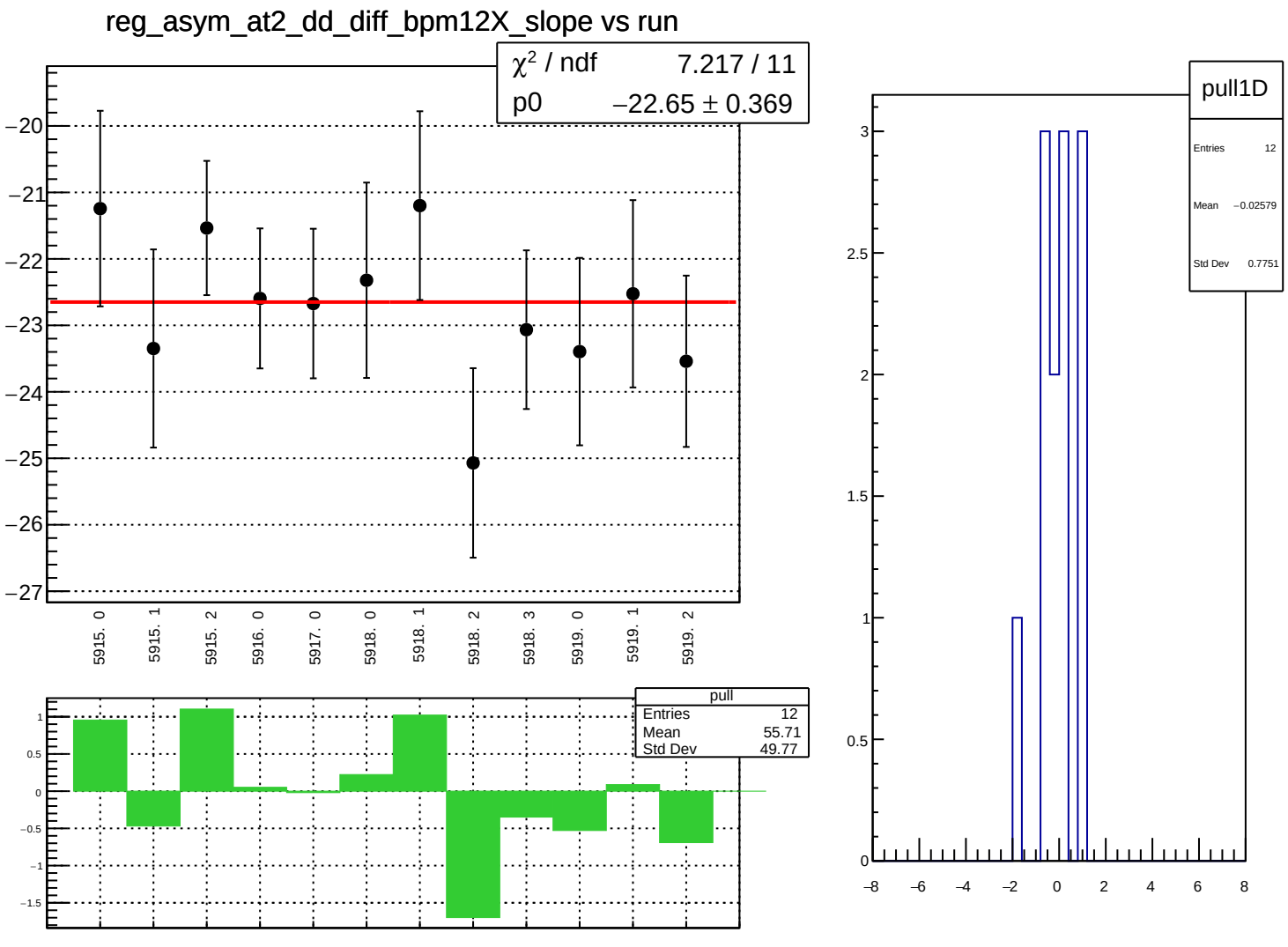

pull
Entries 12
Mean 4.97
Std Dev 9.691
1.5
1
0.5
0
−0.5
−1
−1.5
−2

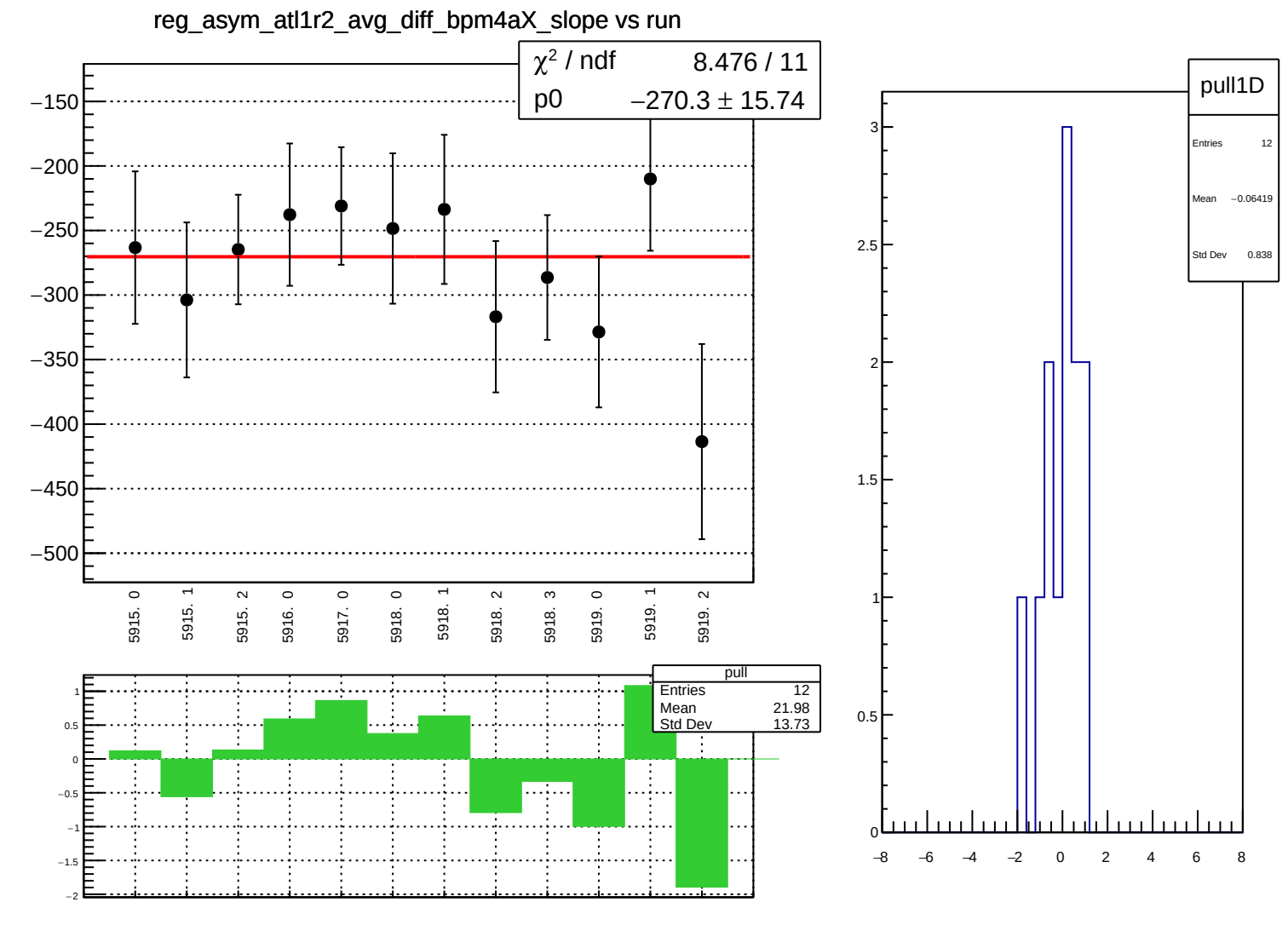

pull1D
Entries 12
Mean −0.03299
Std Dev 0.9069
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

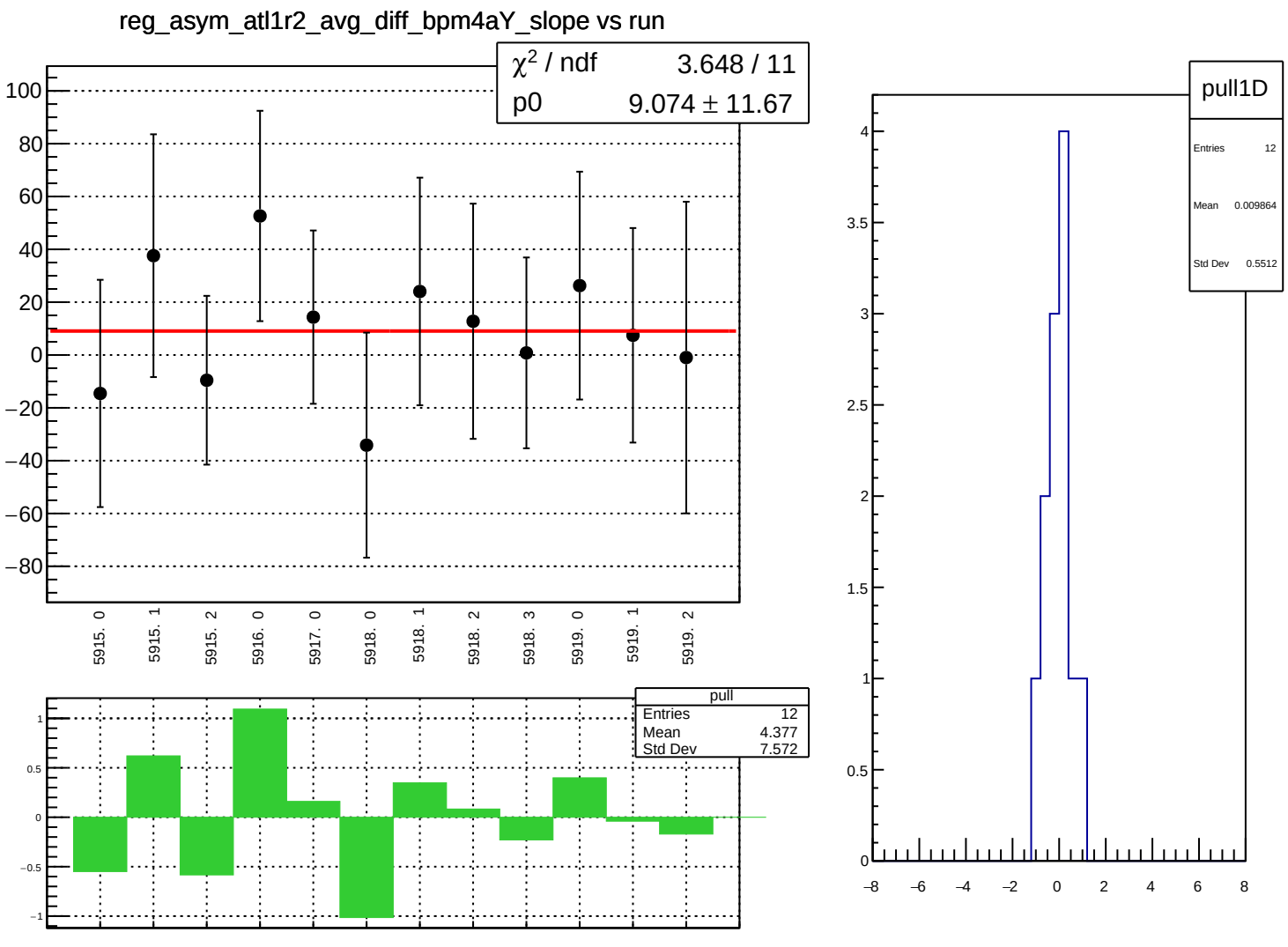

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.463 / 11
p0 146.4 ± 8.567
240
220
200
180
160
140
120
100
80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 34.3
Std Dev 28.7
1.5
1
0.5
0
−0.5
−1
−1.5

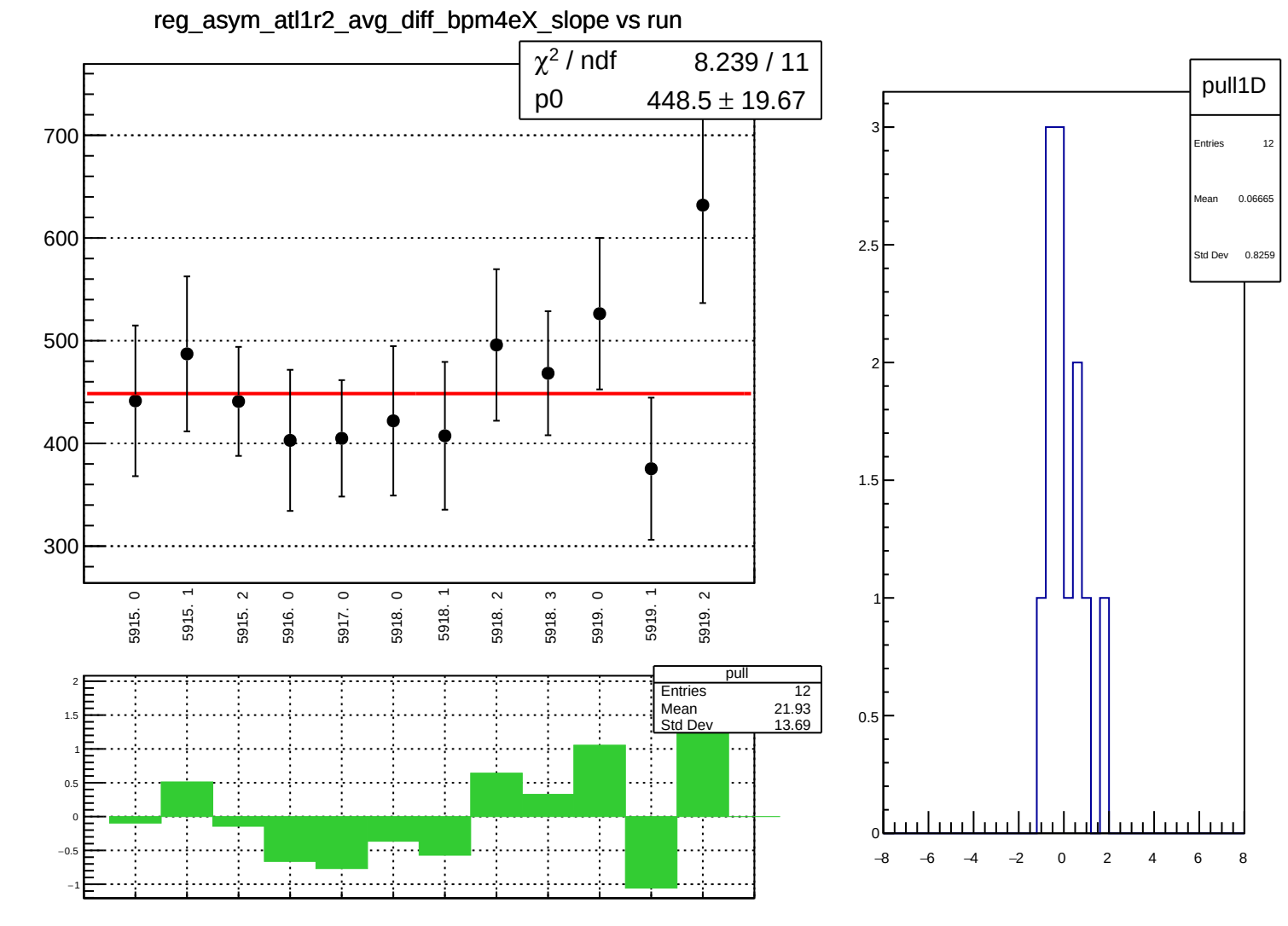

pull1D
Entries 12
Mean 0.06025
Std Dev 0.8376
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

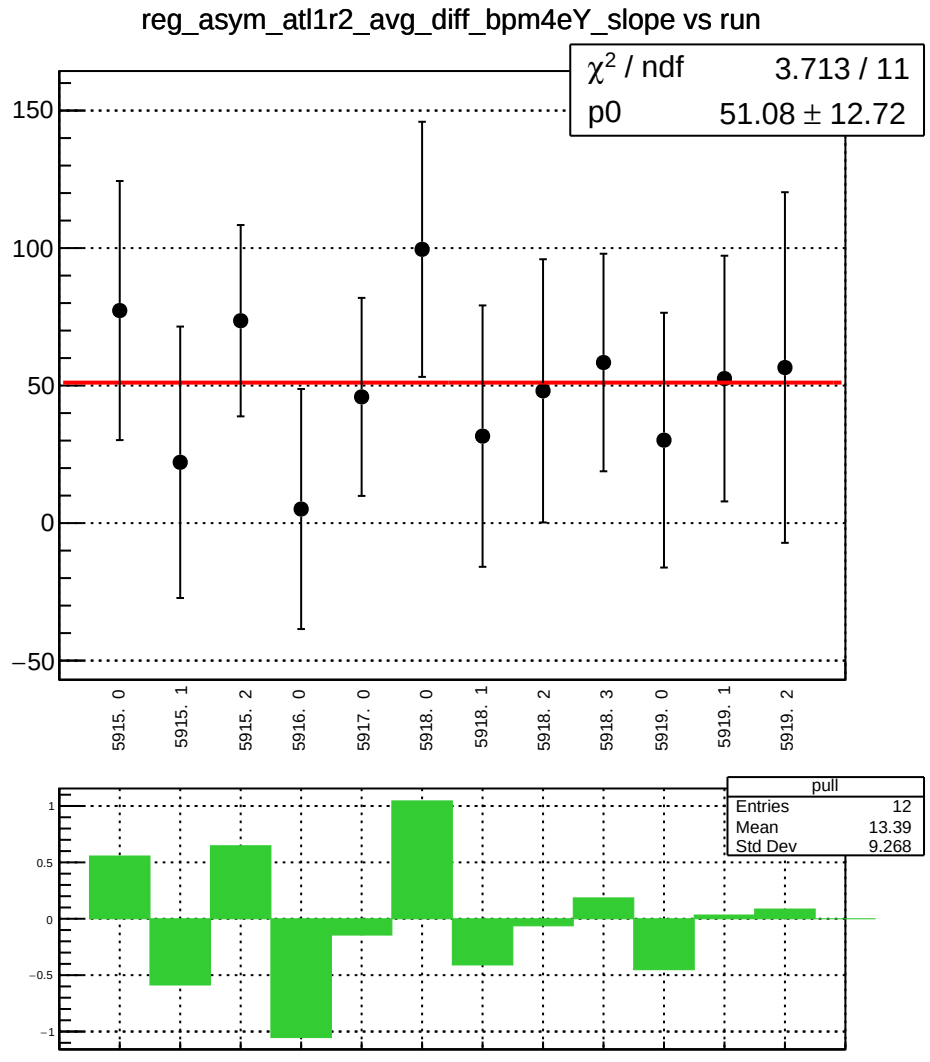

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.754 / 11
p0 40.34 ± 5.541
100
80
60
40
20
0
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 1.823
Std Dev 8.599
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.03402
Std Dev 0.9009
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

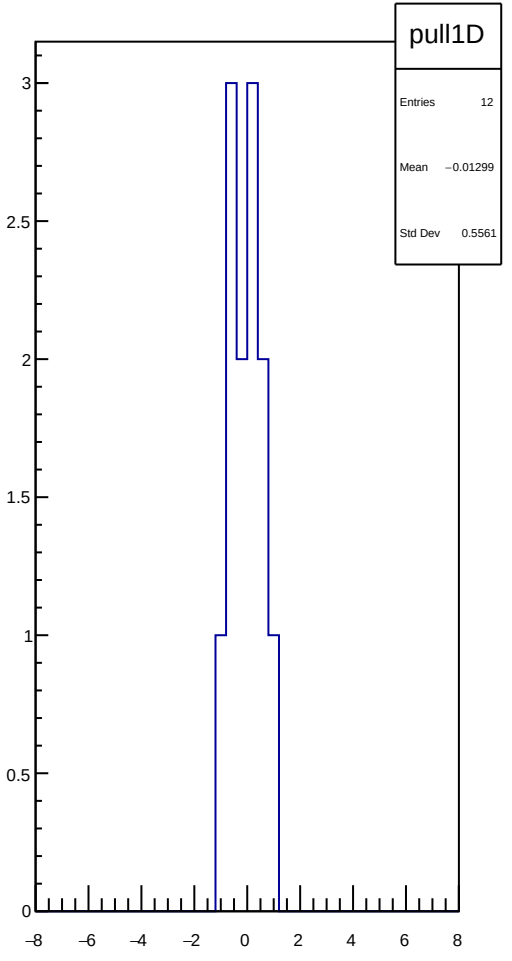

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.217 / 11
p0 −22.65 ± 0.369
−20
−21
−22
−23
−24
−25
−26
−27
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 55.71
Std Dev 49.77
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.02579
Std Dev 0.7751
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

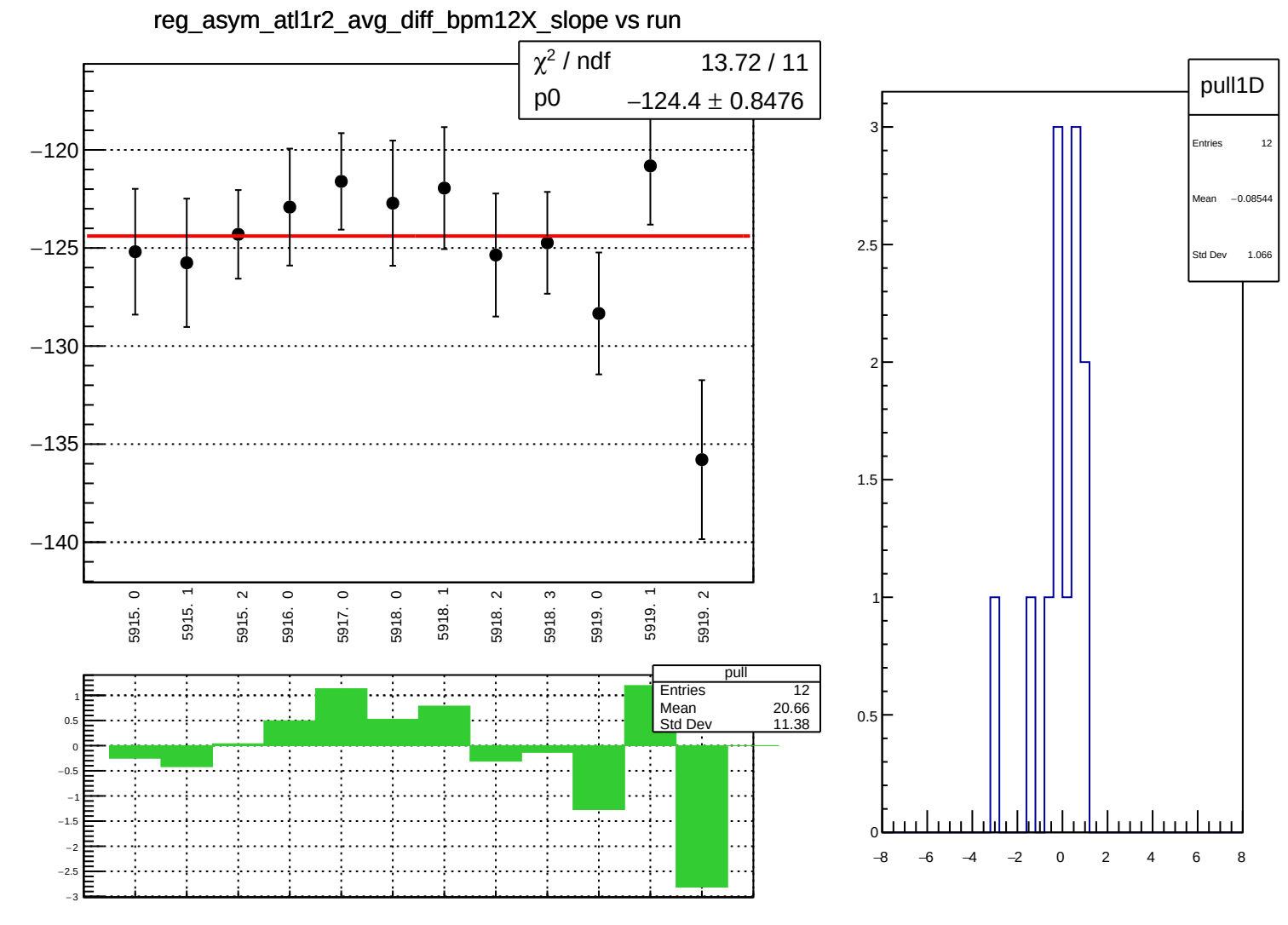

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.476 / 11
p0 −270.3 ± 15.74
−150
−200
−250
−300
−350
−400
−450
−500
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 21.98
Std Dev 13.73
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean −0.06419
Std Dev 0.838
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

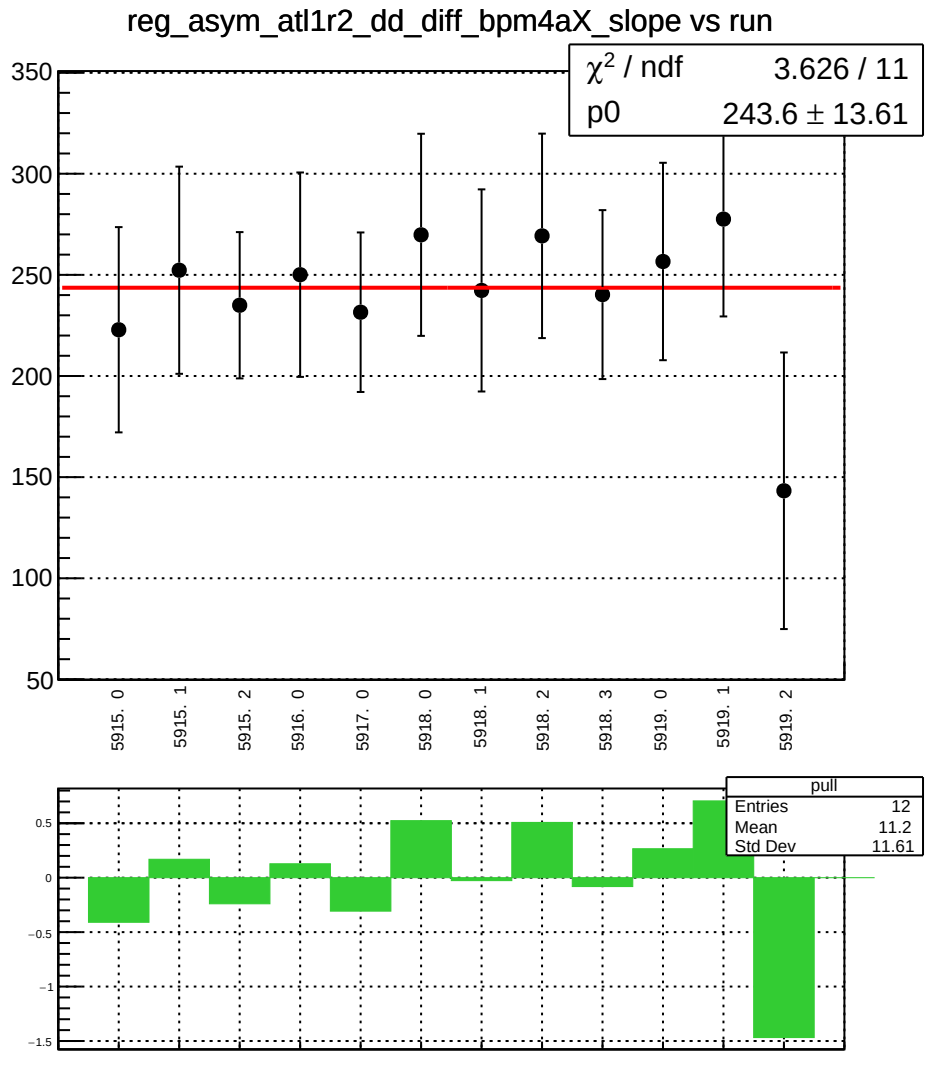

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.648 / 11
p0 9.074 ± 11.67
100
80
60
40
20
0
−20
−40
−60
−80
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.377
Std Dev 7.572
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.009864
Std Dev 0.5512
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

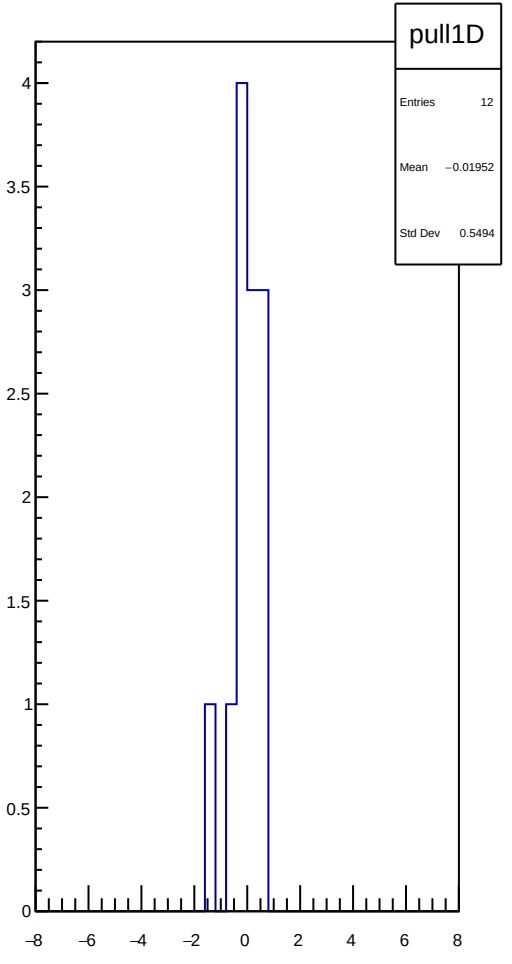

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.239 / 11
p0 448.5 ± 19.67
700
600
500
400
300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 21.93
Std Dev 13.69
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.06665
Std Dev 0.8259
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

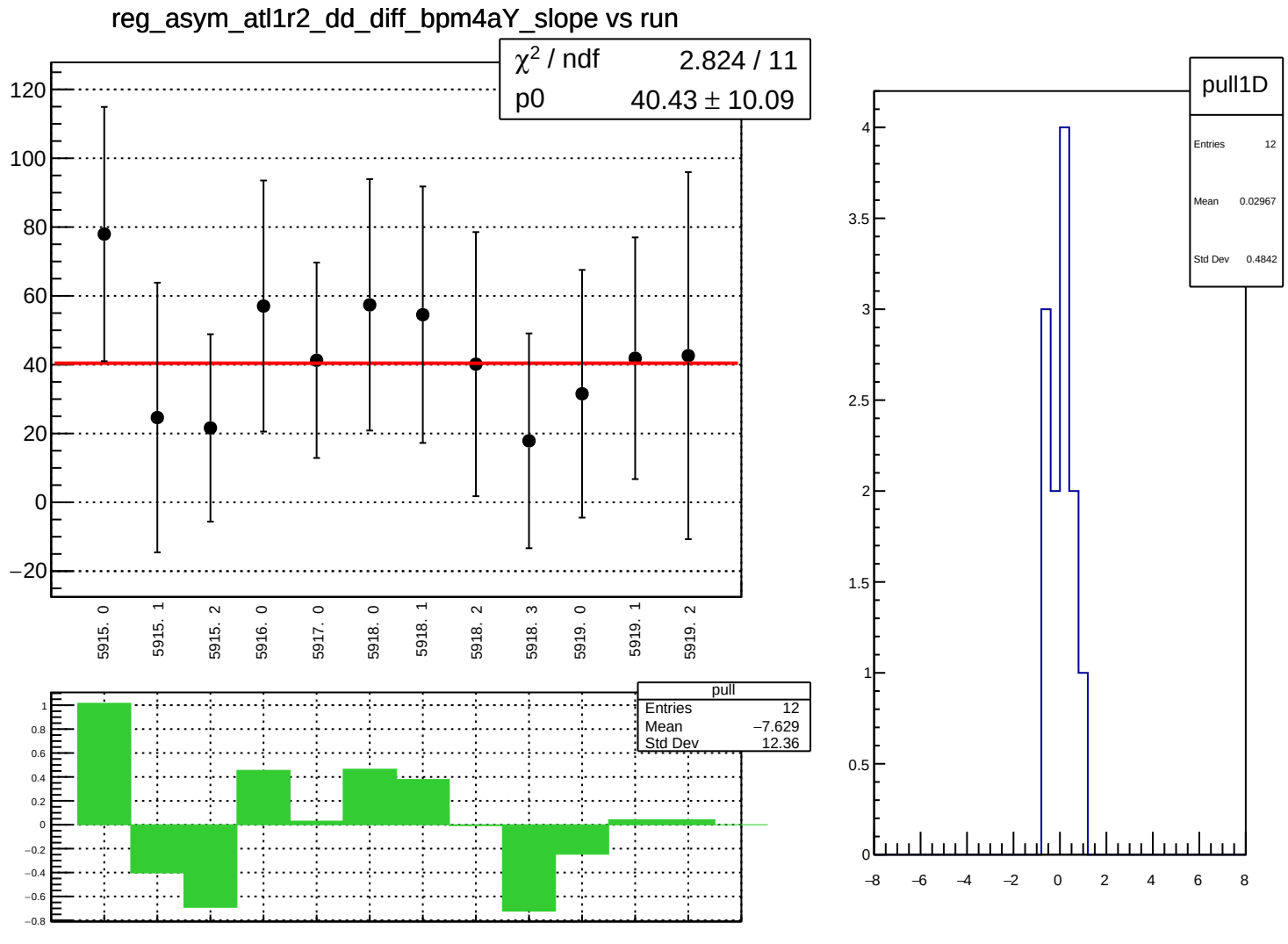

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.713 / 11
p0 51.08 ± 12.72
150
100
50
0
−50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.39
Std Dev 9.268
1
0.5
0
−0.5
−1

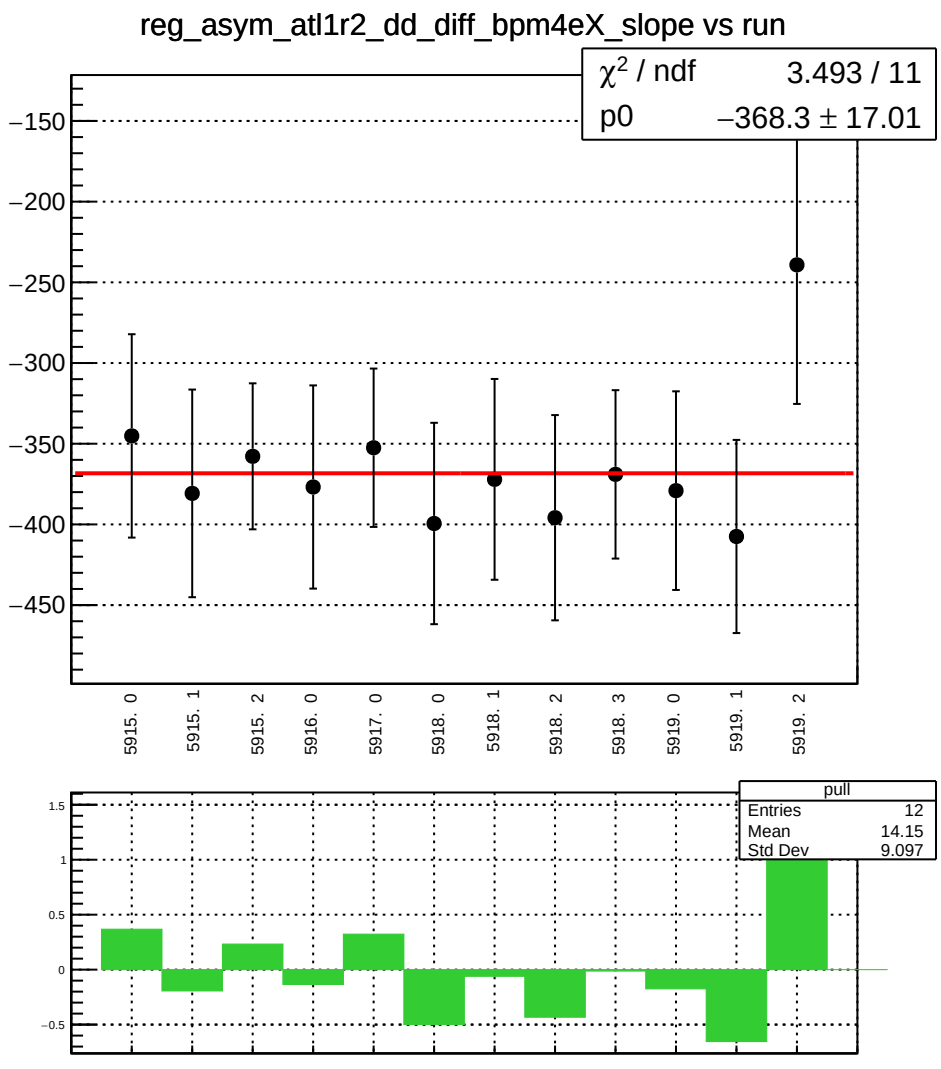

pull1D
Entries 12
Mean −0.01299
Std Dev 0.5561
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

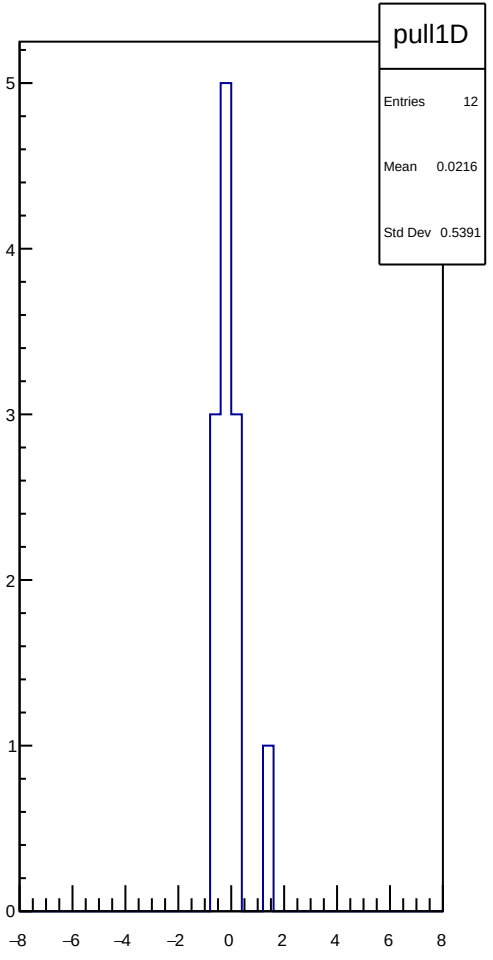

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.72 / 11
p0 −124.4 ± 0.8476
−120
−125
−130
−135
−140
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 20.66
Std Dev 11.38
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 12
Mean −0.08544
Std Dev 1.066
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

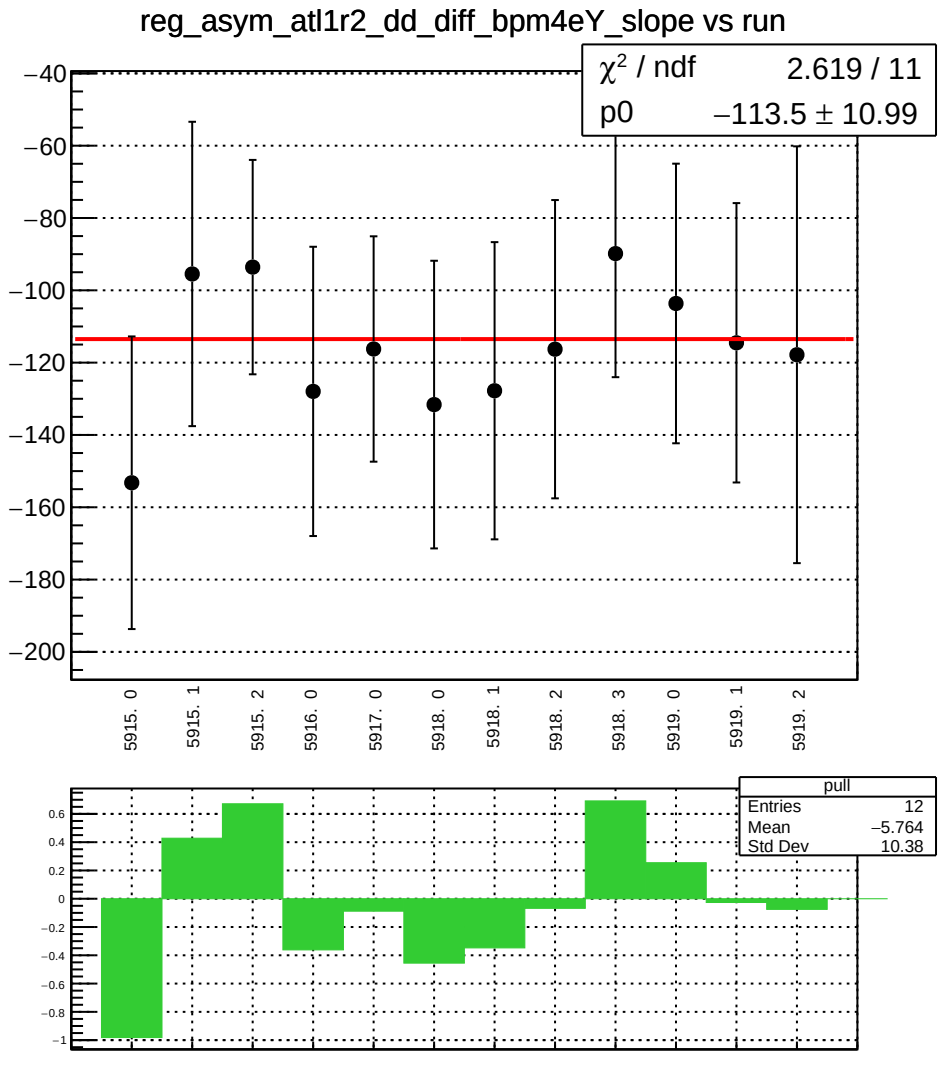

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.626 / 11
p0 243.6 ± 13.61
350
300
250
200
150
100
50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.2
Std Dev 11.61
0.5
0
−0.5
−1
−1.5

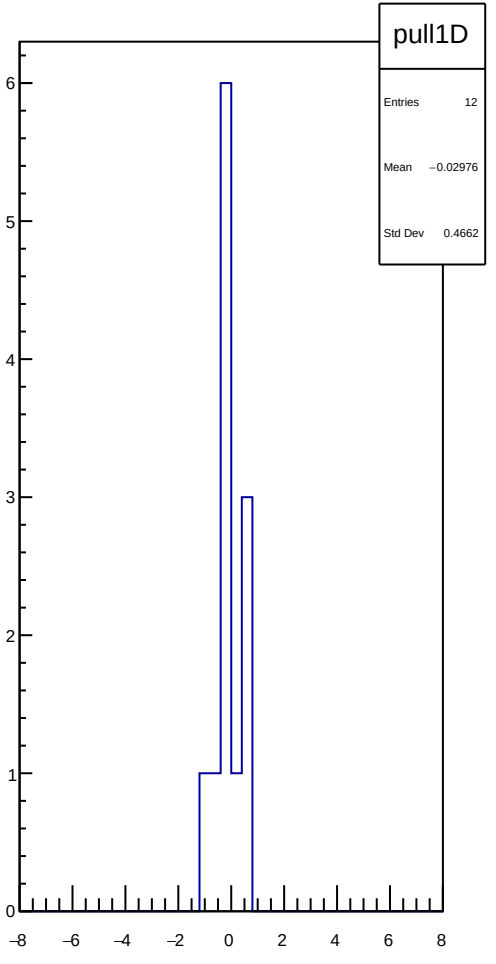

pull1D
Entries 12
Mean −0.01952
Std Dev 0.5494
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

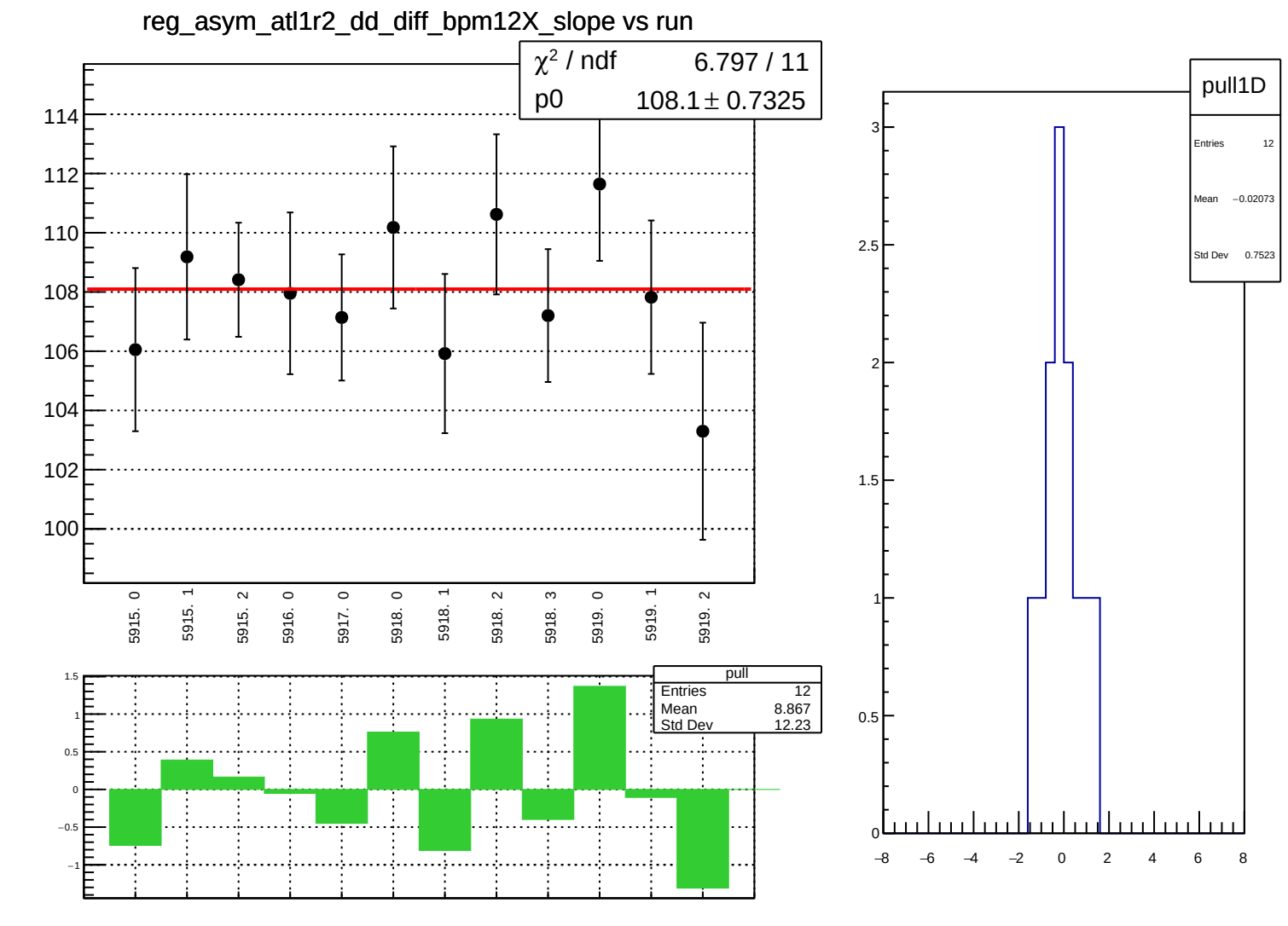

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.824 / 11
p0 40.43 ± 10.09
120
100
80
60
40
20
0
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −7.629
Std Dev 12.36
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean 0.02967
Std Dev 0.4842
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

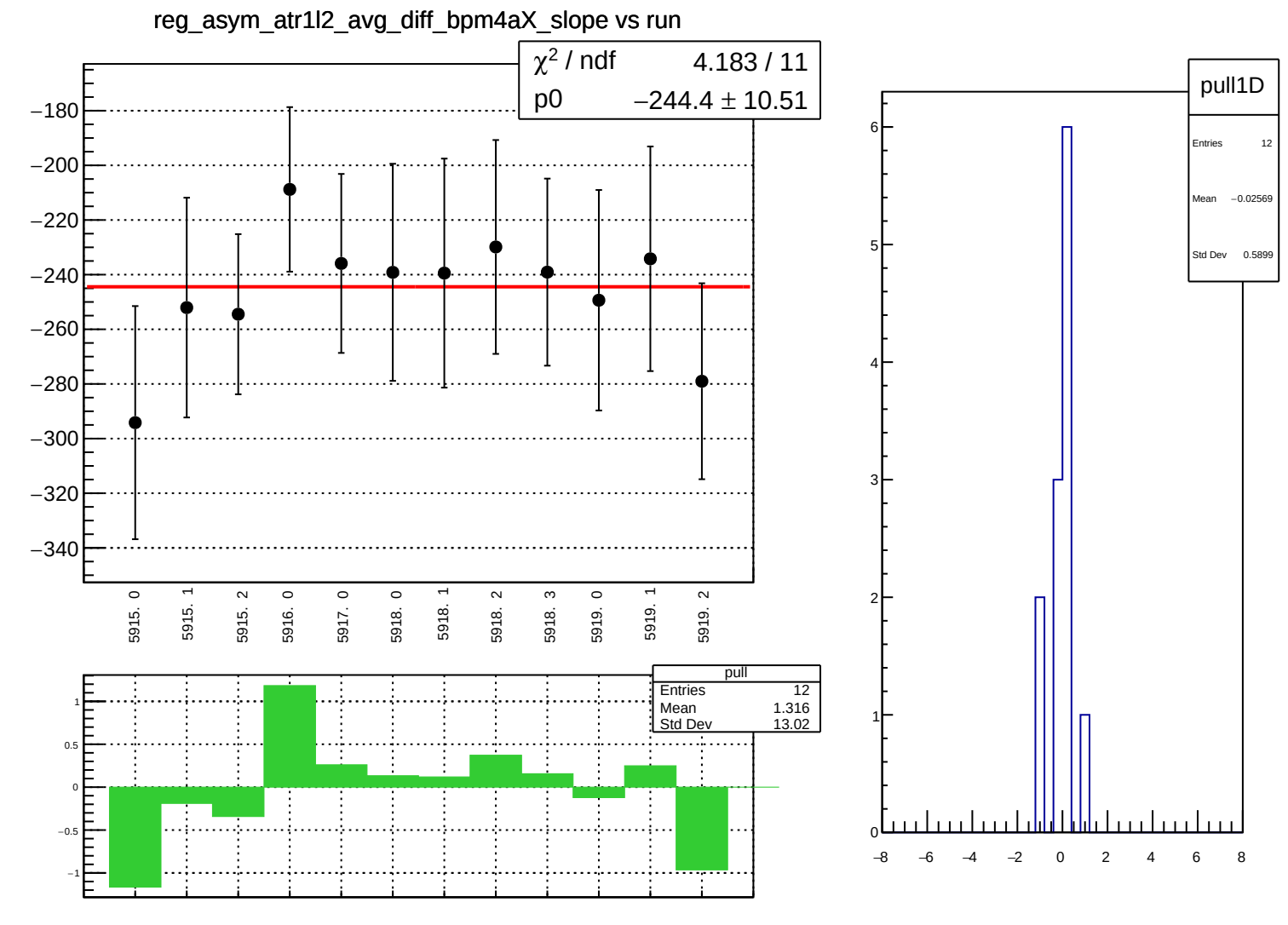

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.493 / 11
p0 −368.3 ± 17.01
−150
−200
−250
−300
−350
−400
−450
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 14.15
Std Dev 9.097
1.5
1
0.5
0
−0.5

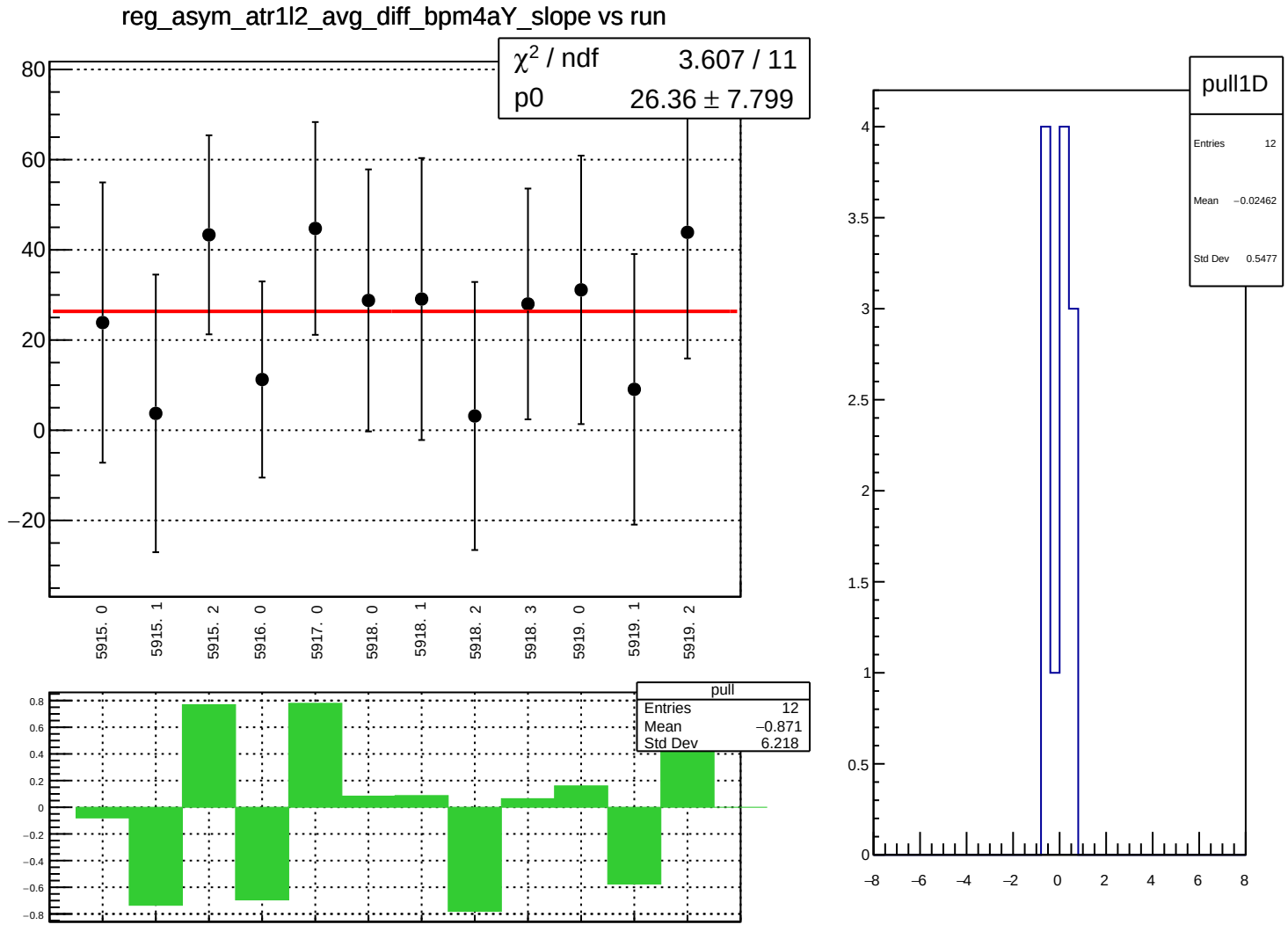

pull1D
Entries 12
Mean 0.0216
Std Dev 0.5391
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

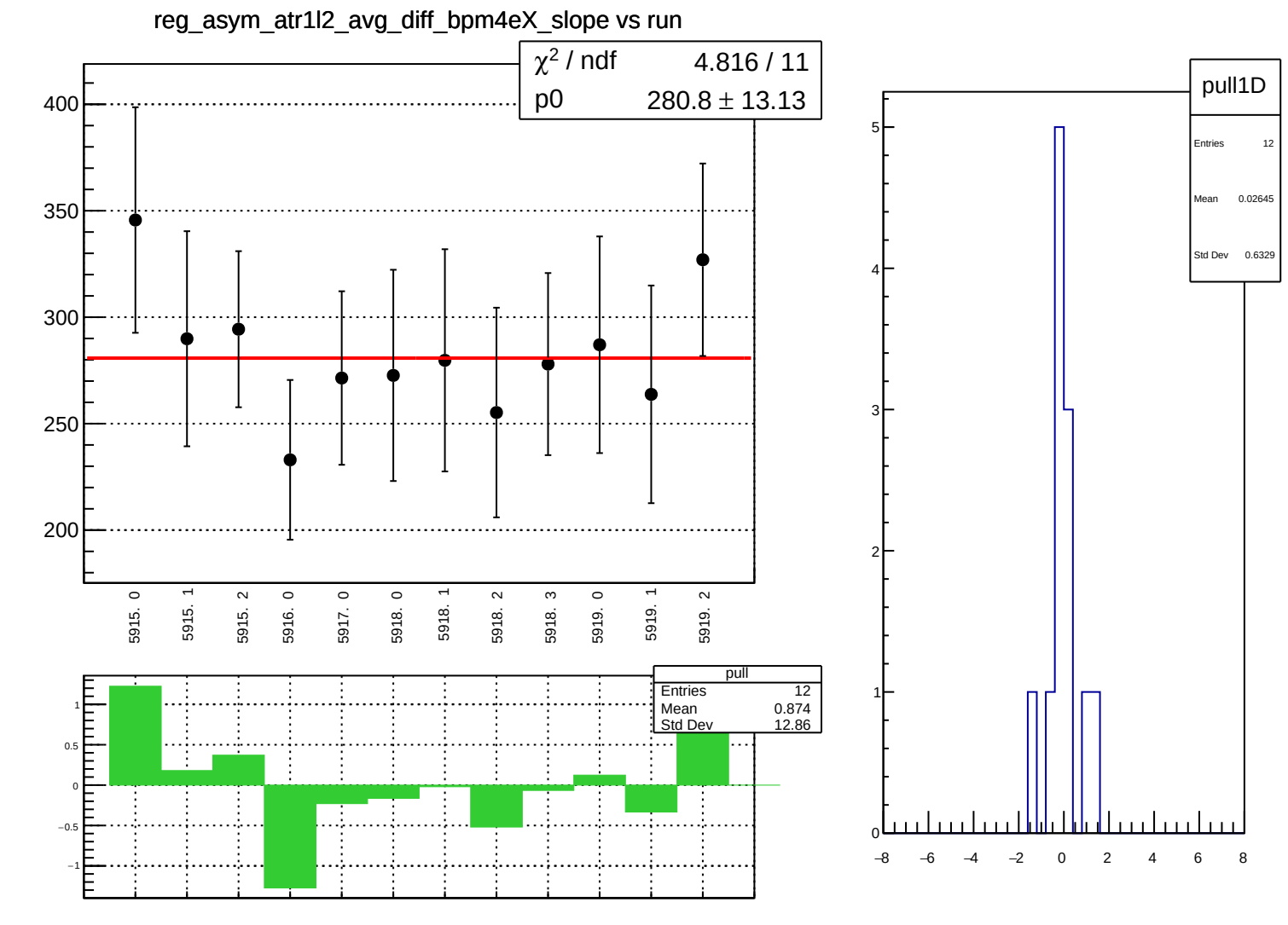

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.619 / 11
p0 −113.5 ± 10.99
−40
−60
−80
−100
−120
−140
−160
−180
−200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −5.764
Std Dev 10.38
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

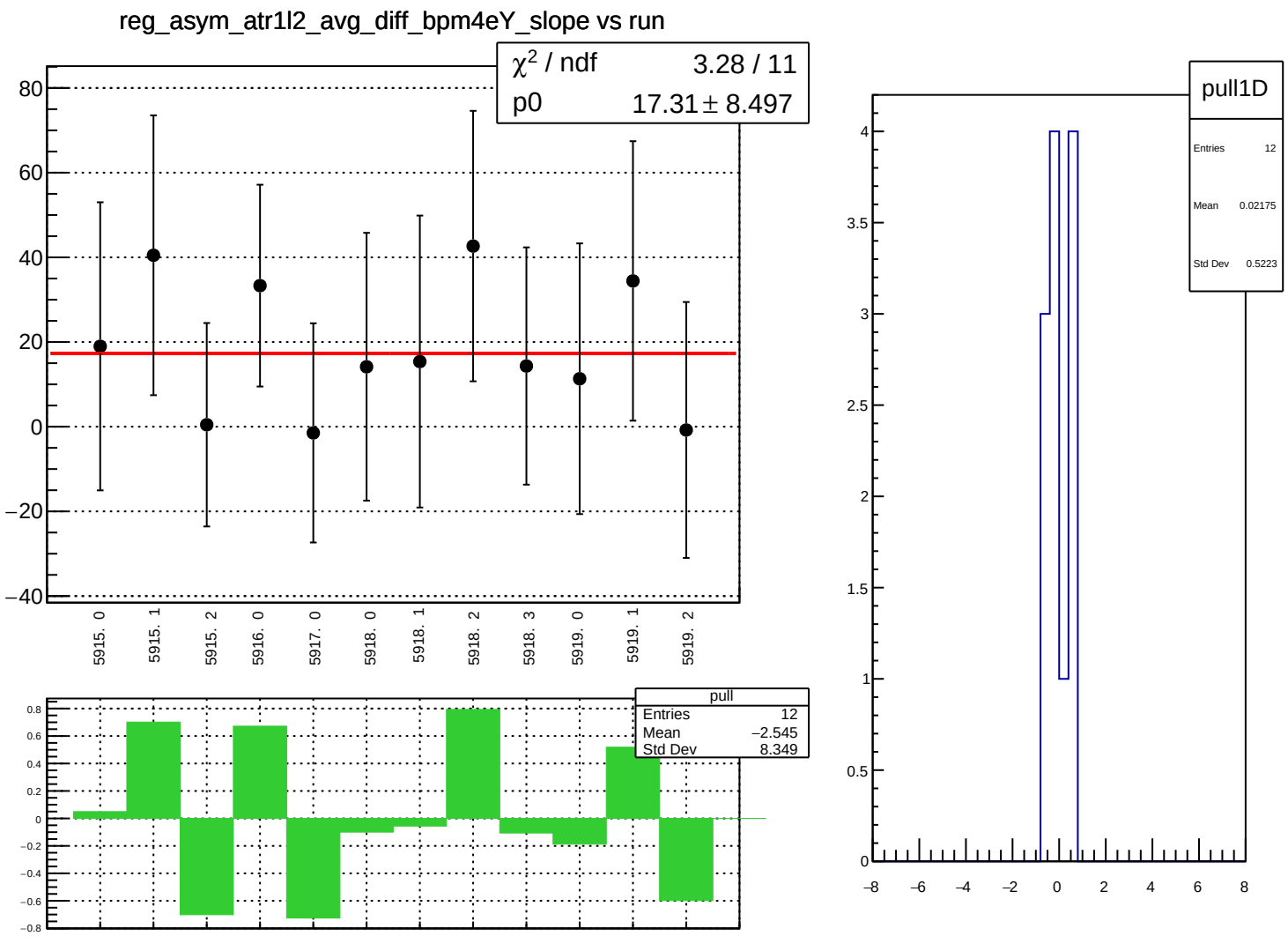

pull1D
Entries 12
Mean −0.02976
Std Dev 0.4662
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

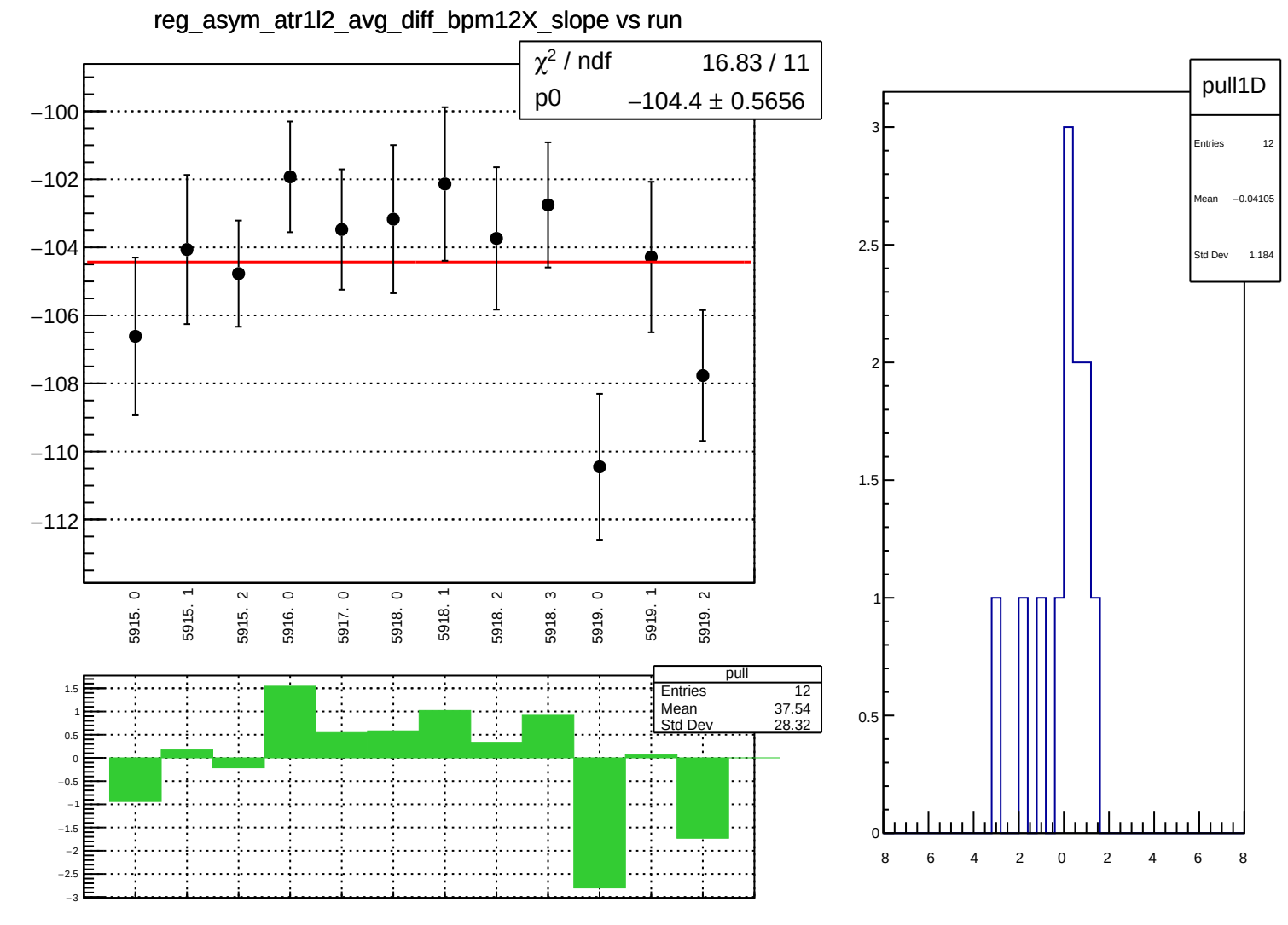

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 6.797 / 11
p0 108.1 ± 0.7325
114
112
110
108
106
104
102
100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.867
Std Dev 12.23
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.02073
Std Dev 0.7523
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

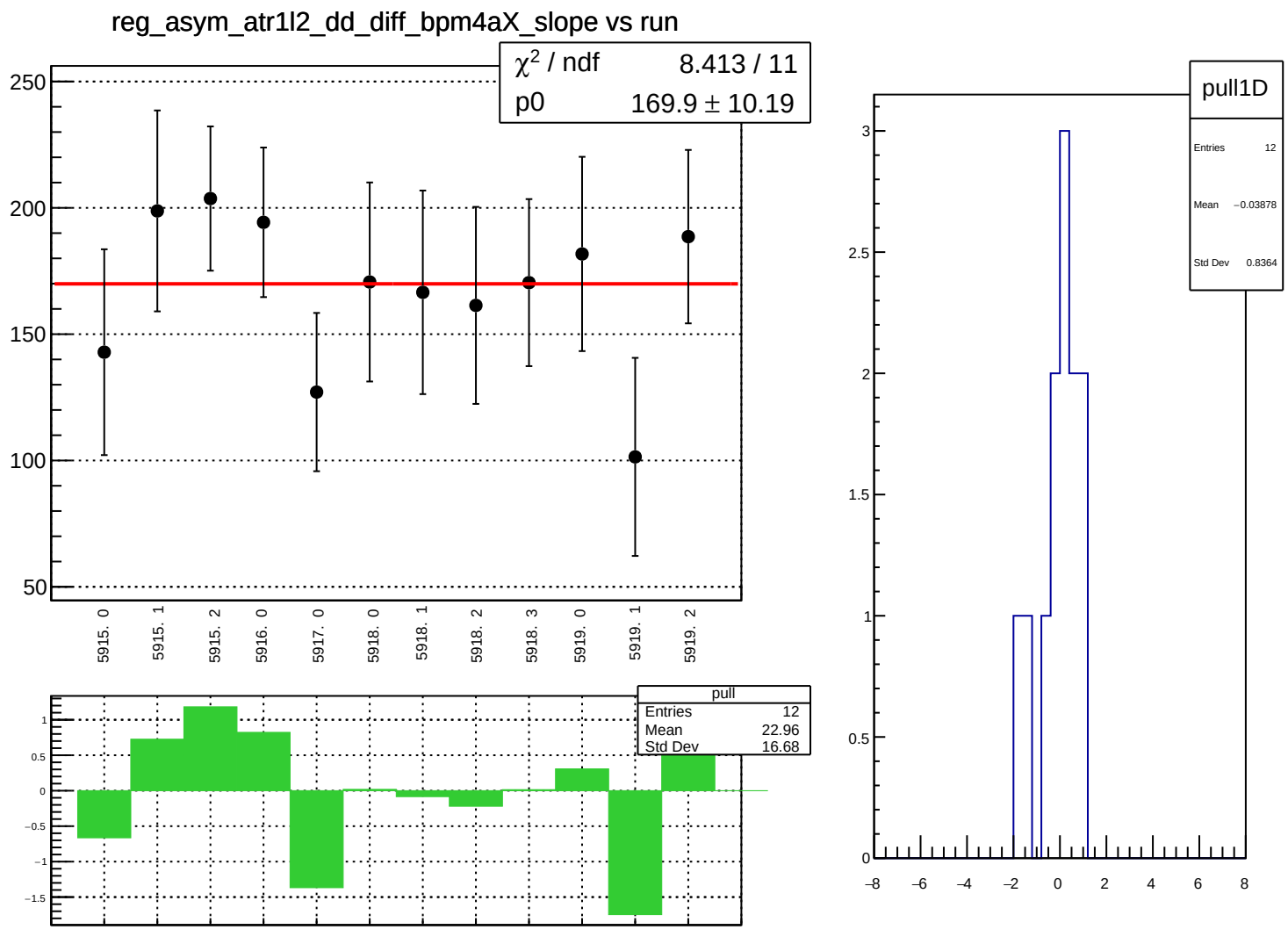

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.183 / 11
p0 −244.4 ± 10.51
−180
−200
−220
−240
−260
−280
−300
−320
−340
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 1.316
Std Dev 13.02
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.02569
Std Dev 0.5899
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

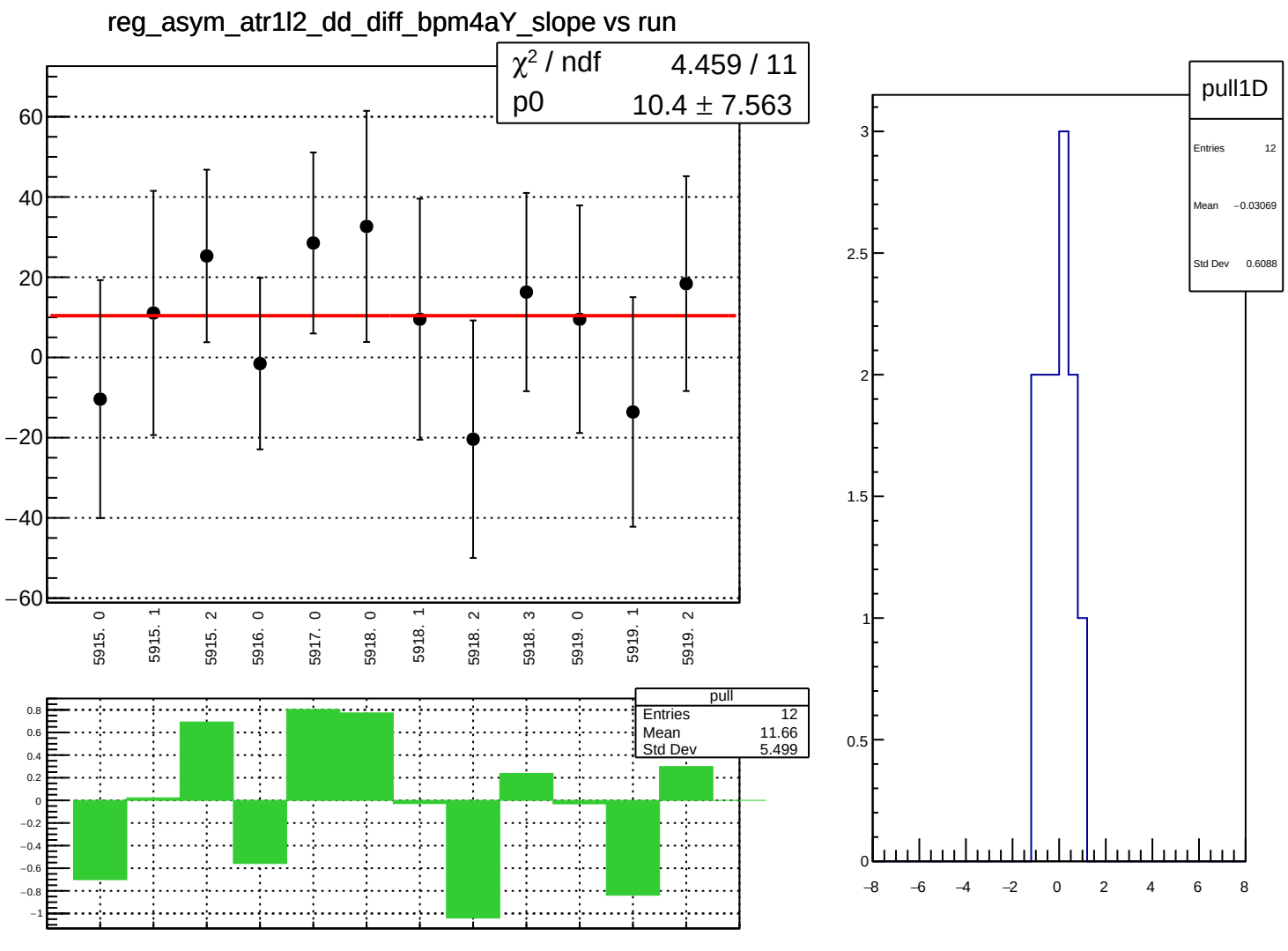

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.607 / 11
p0 26.36 ± 7.799
80
60
40
20
0
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −0.871
Std Dev 6.218
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean −0.02462
Std Dev 0.5477
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

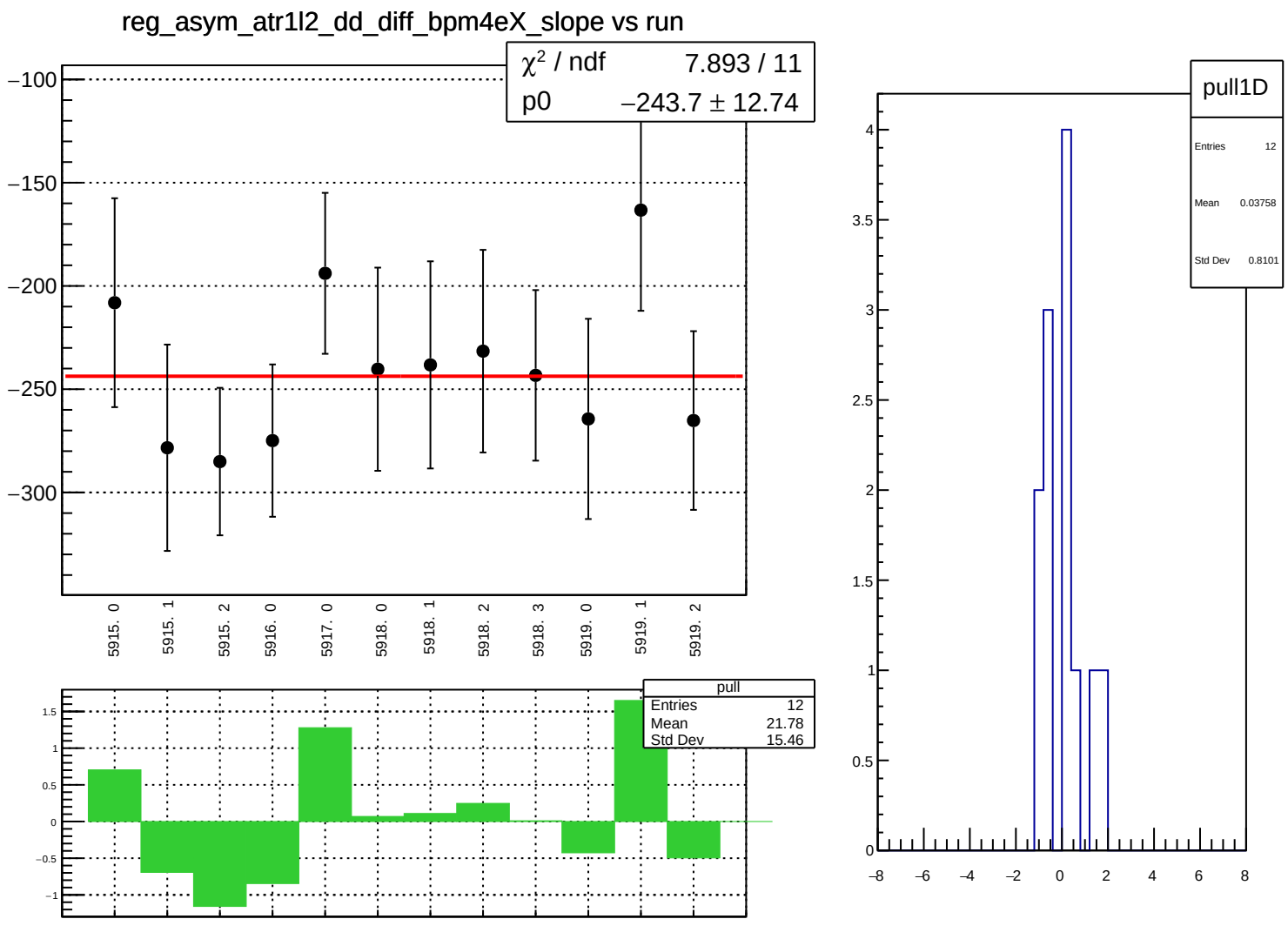

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.816 / 11
p0 280.8 ± 13.13
400
350
300
250
200
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 0.874
Std Dev 12.86
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.02645
Std Dev 0.6329
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

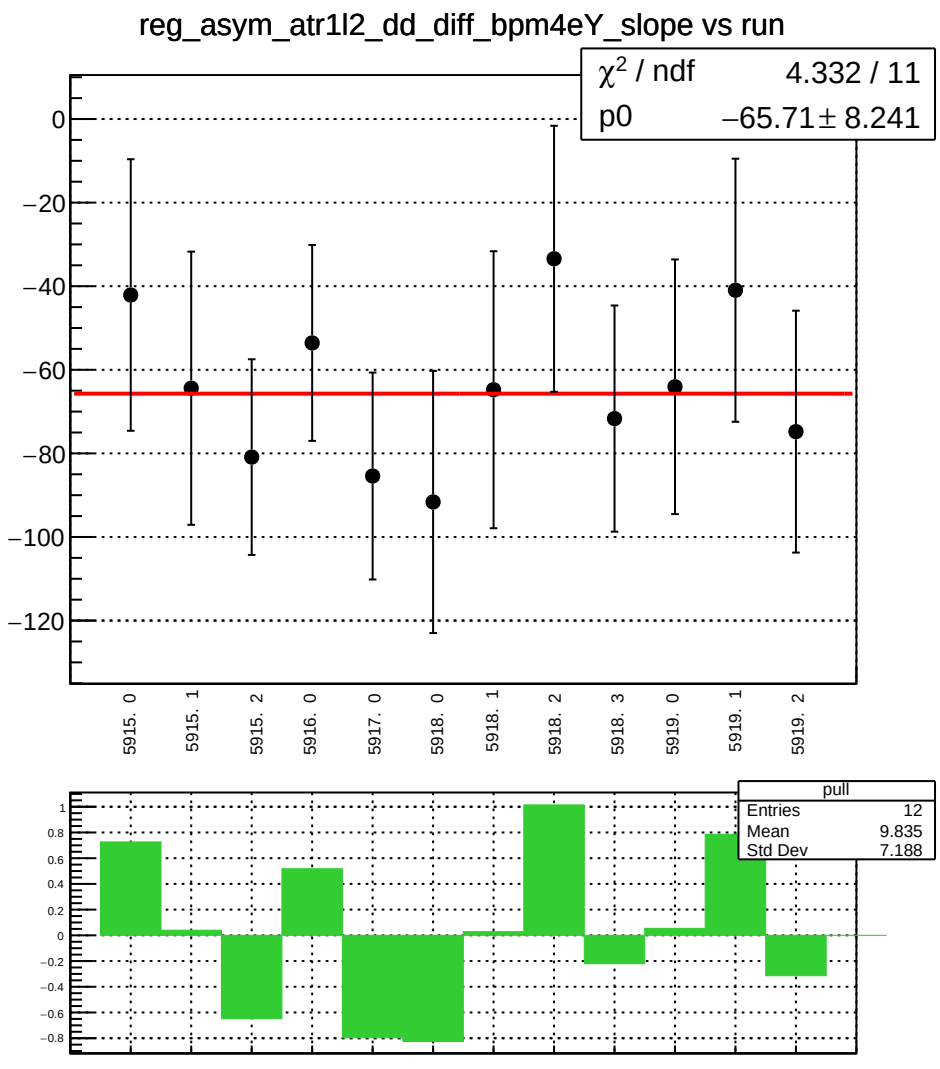

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.28 / 11
p0 17.31 ± 8.497
80
60
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −2.545
Std Dev 8.349
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean 0.02175
Std Dev 0.5223
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

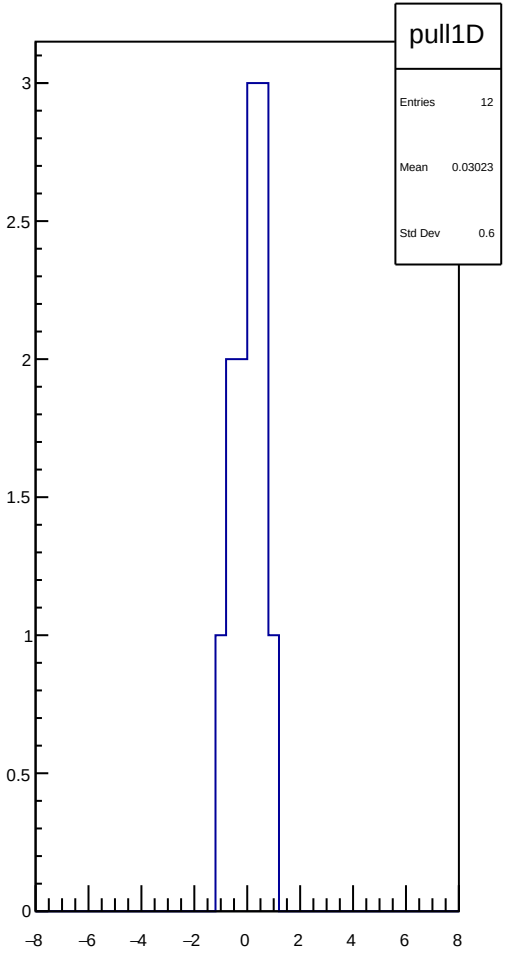

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 16.83 / 11
p0 −104.4 ± 0.5656
−100
−102
−104
−106
−108
−110
−112
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 37.54
Std Dev 28.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 12
Mean −0.04105
Std Dev 1.184
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

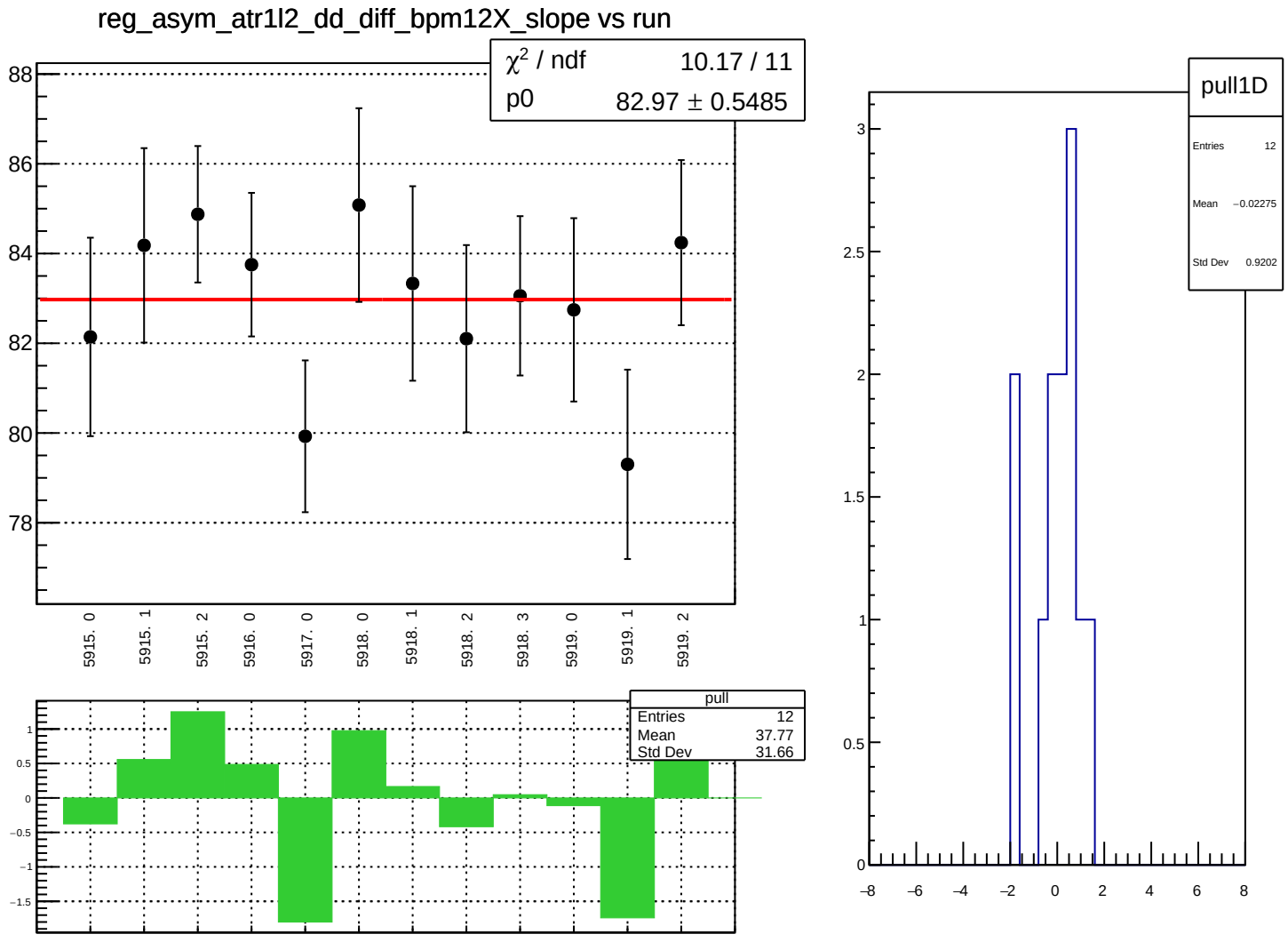

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.413 / 11
p0 169.9 ± 10.19
250
200
150
100
50
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.96
Std Dev 16.68
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.03878
Std Dev 0.8364
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

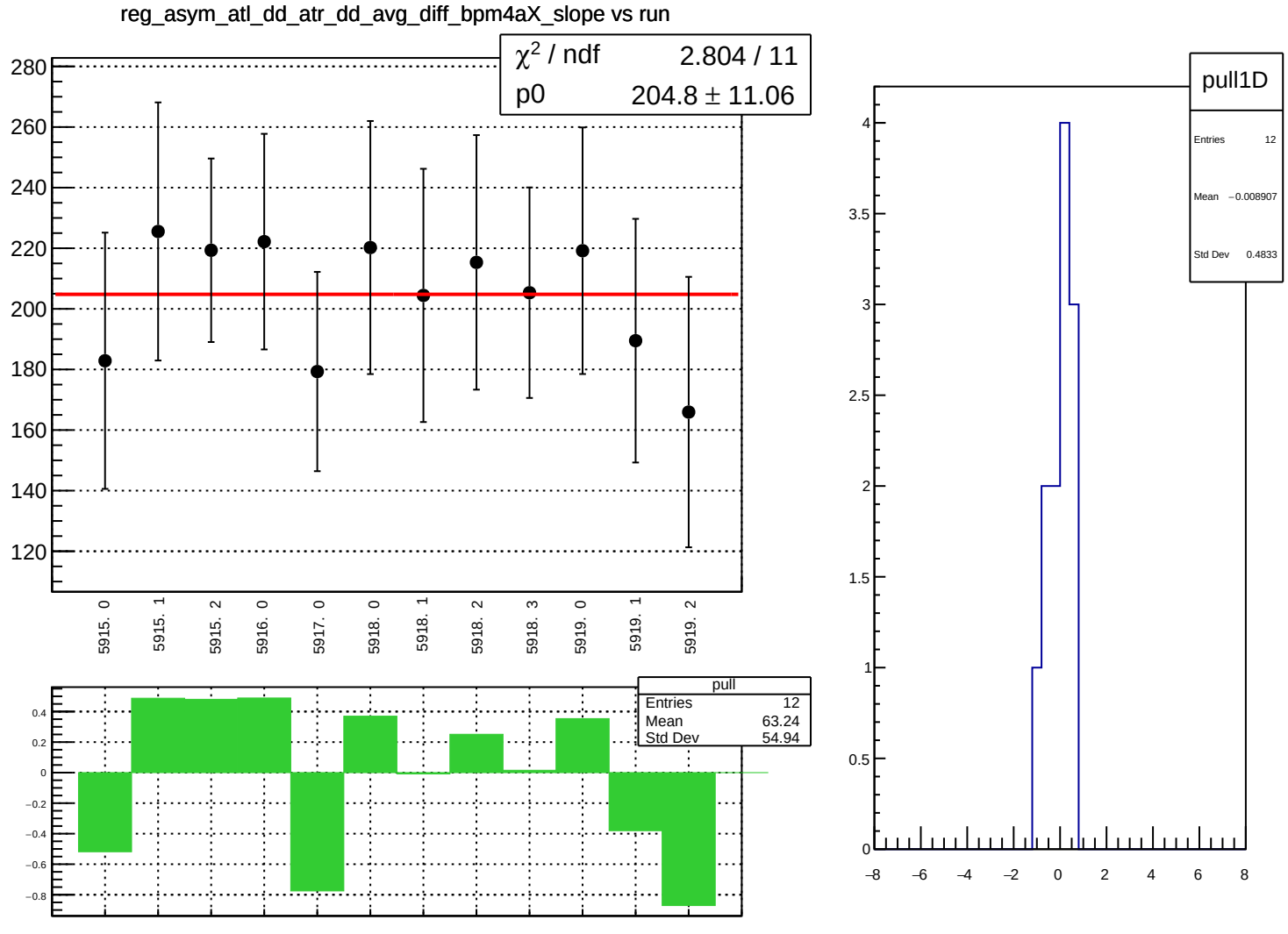

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.459 / 11
p0 10.4 ± 7.563
60
40
20
0
−20
−40
−60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.66
Std Dev 5.499
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 12
Mean −0.03069
Std Dev 0.6088
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

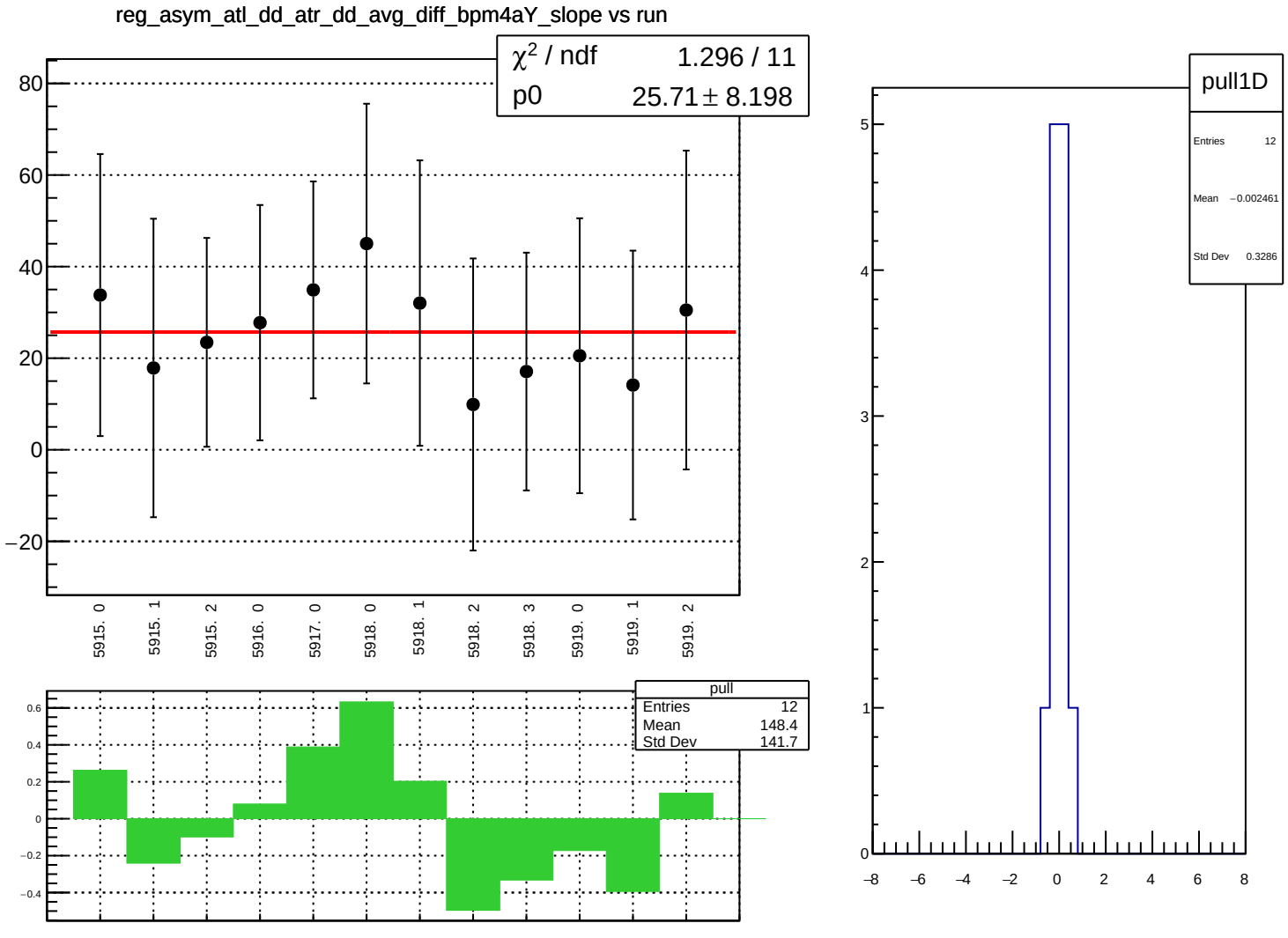

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.893 / 11
p0 −243.7 ± 12.74
−100
−150
−200
−250
−300
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 21.78
Std Dev 15.46
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.03758
Std Dev 0.8101
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

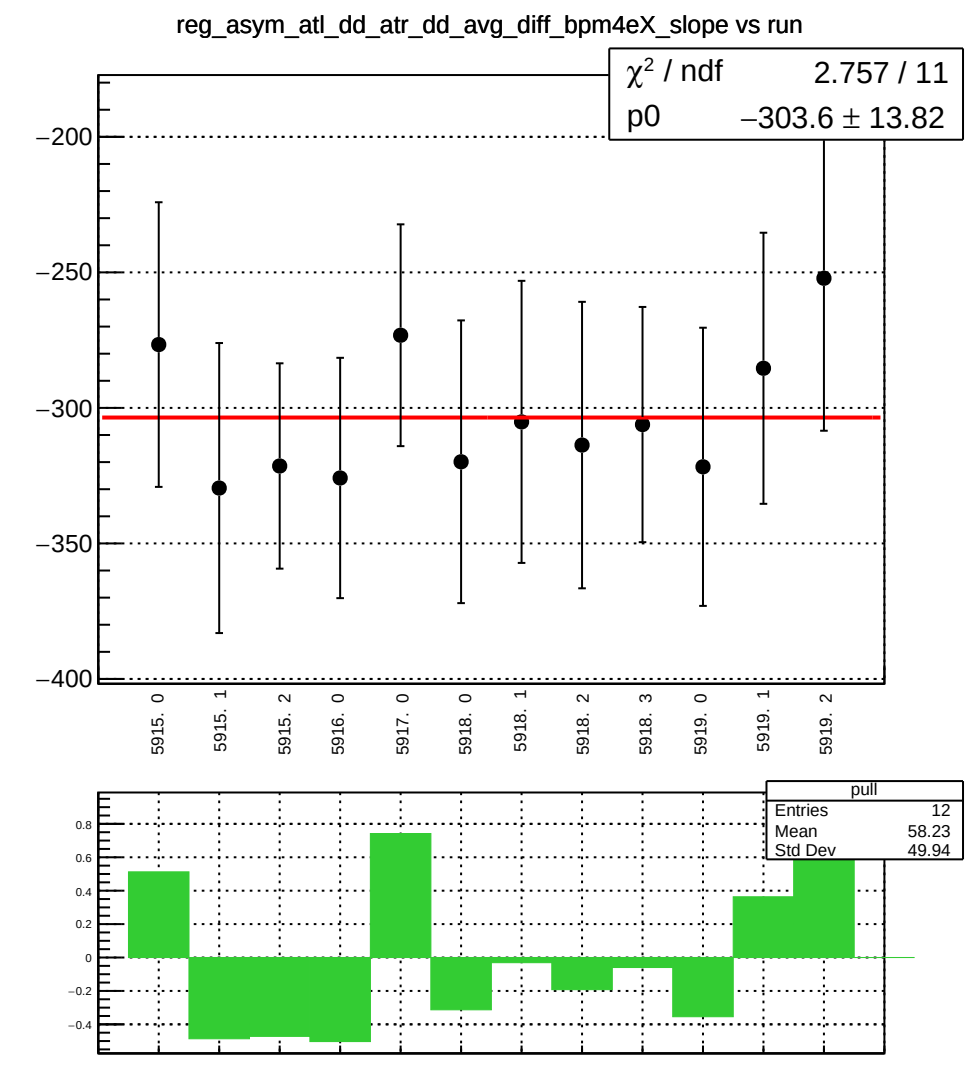

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.332 / 11
p0 −65.71 ± 8.241
0
−20
−40
−60
−80
−100
−120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 9.835
Std Dev 7.188
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

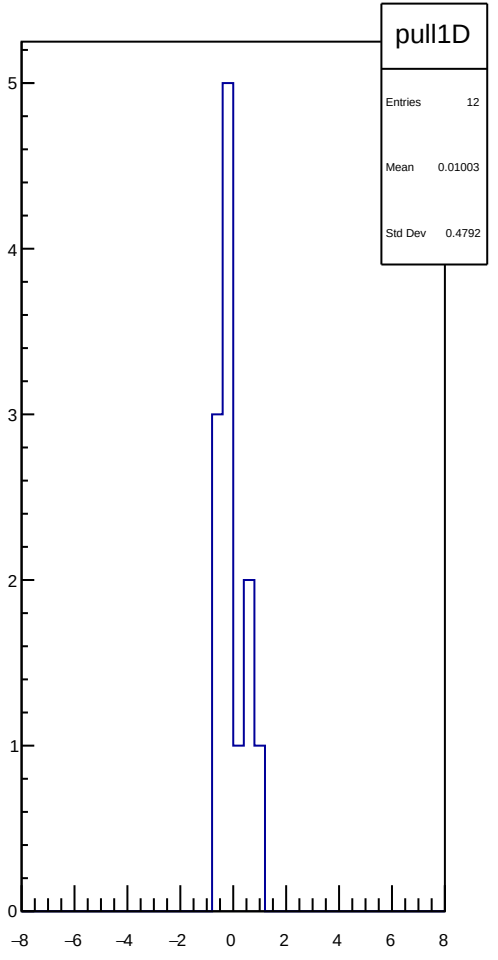

pull1D
Entries 12
Mean 0.03023
Std Dev 0.6
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

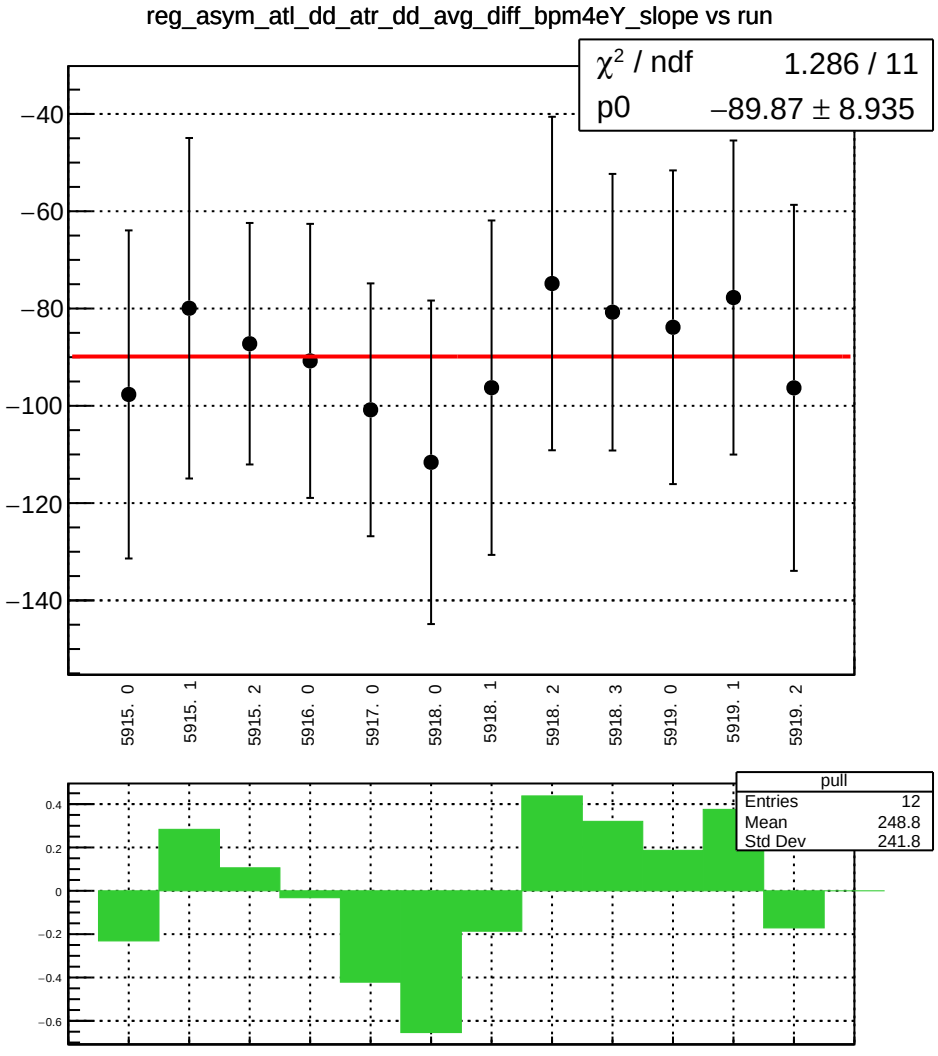

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.17 / 11
p0 82.97 ± 0.5485
88
86
84
82
80
78
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 37.77
Std Dev 31.66
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.02275
Std Dev 0.9202
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

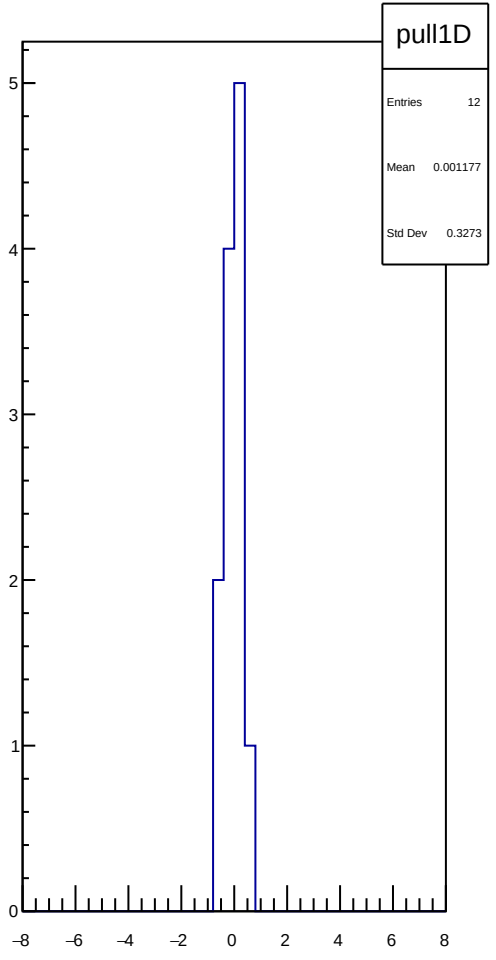

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.804 / 11
p0 204.8 ± 11.06
280
260
240
220
200
180
160
140
120
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 63.24
Std Dev 54.94
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 12
Mean −0.008907
Std Dev 0.4833
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

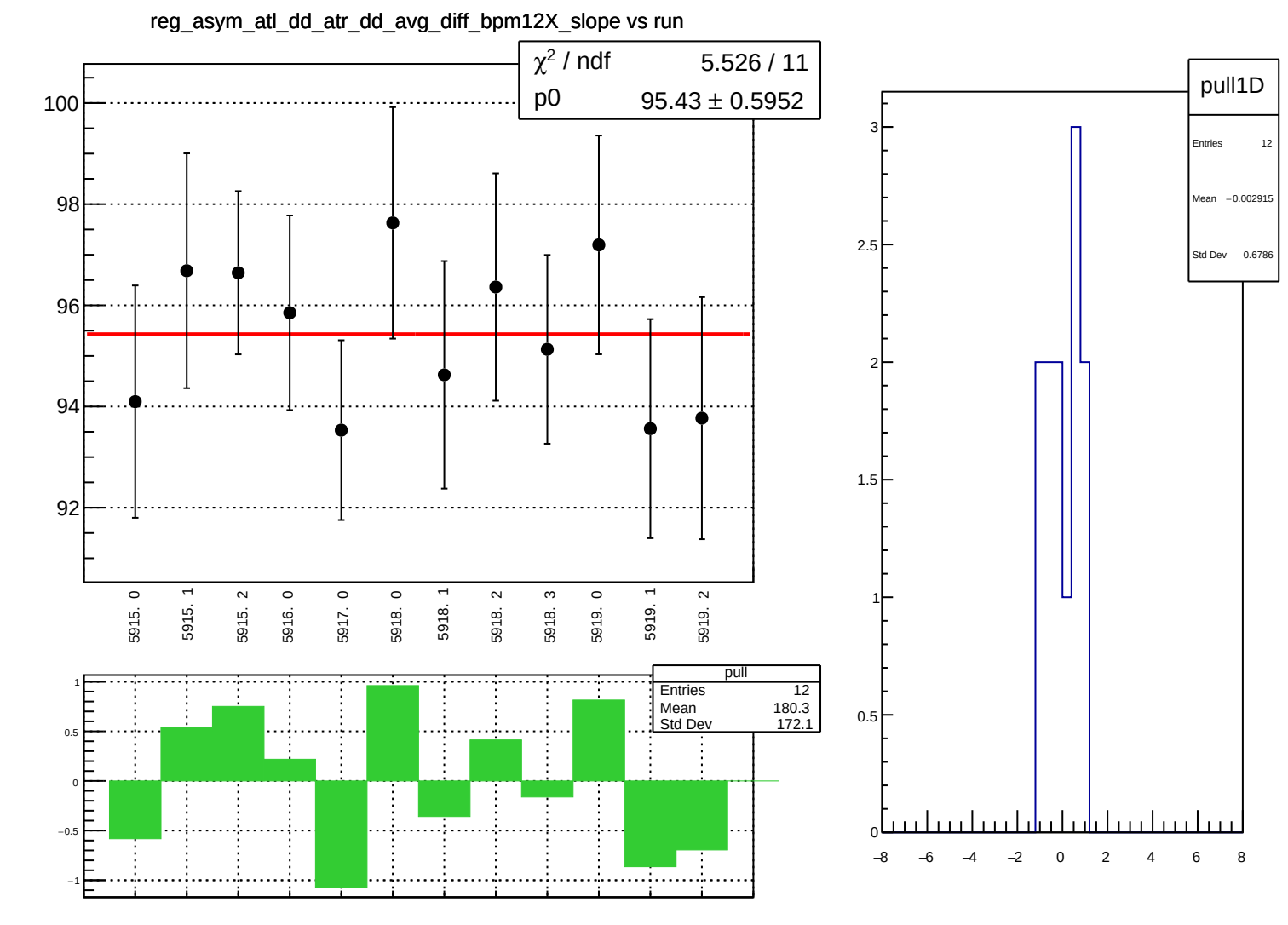

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.296 / 11
p0 25.71 ± 8.198
80
60
40
20
0
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 148.4
Std Dev 141.7
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 12
Mean −0.002461
Std Dev 0.3286
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

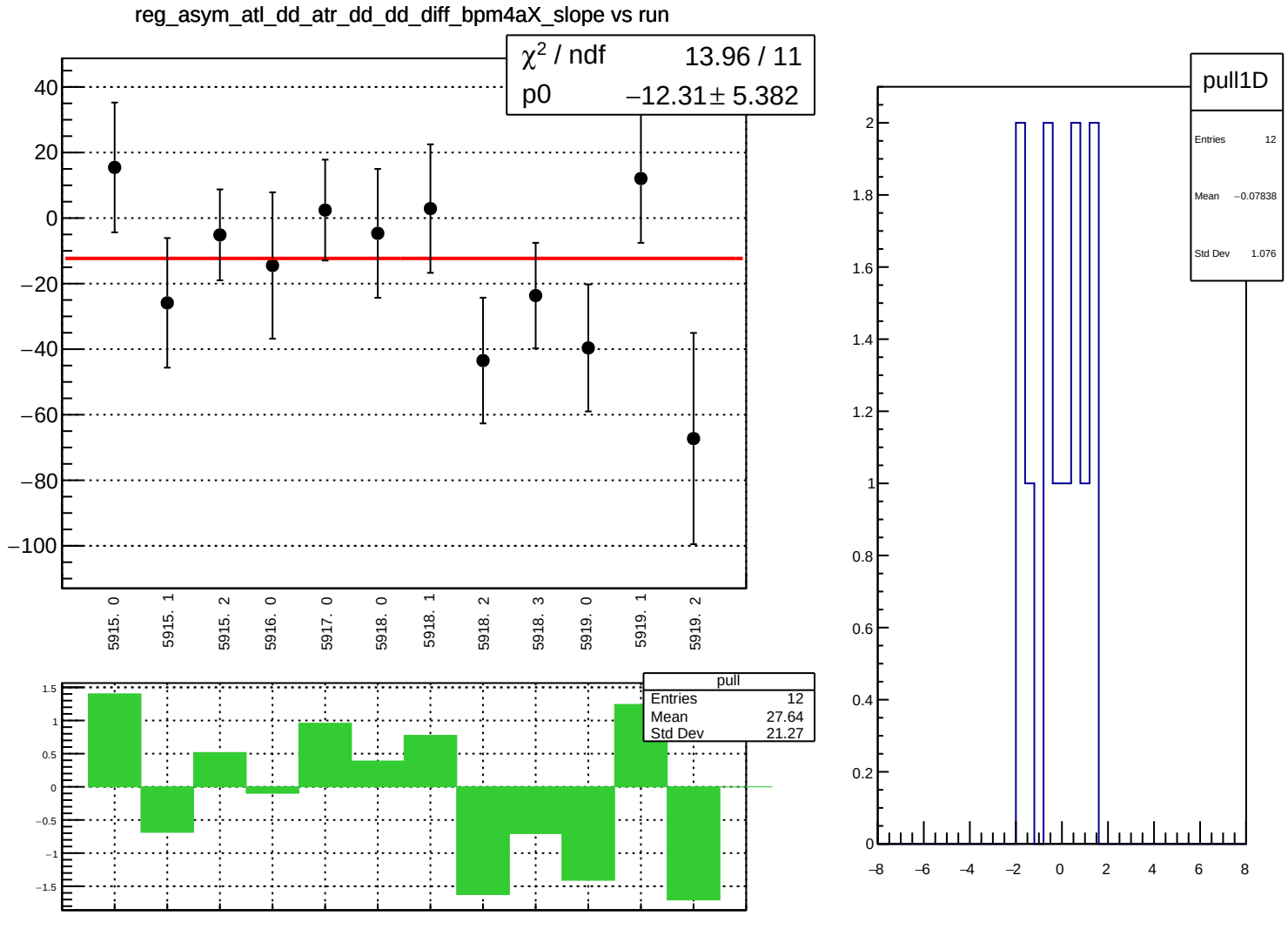

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.757 / 11
p0 −303.6 ± 13.82
−200
−250
−300
−350
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 58.23
Std Dev 49.94
0.8
0.6
0.4
0.2
0
−0.2
−0.4

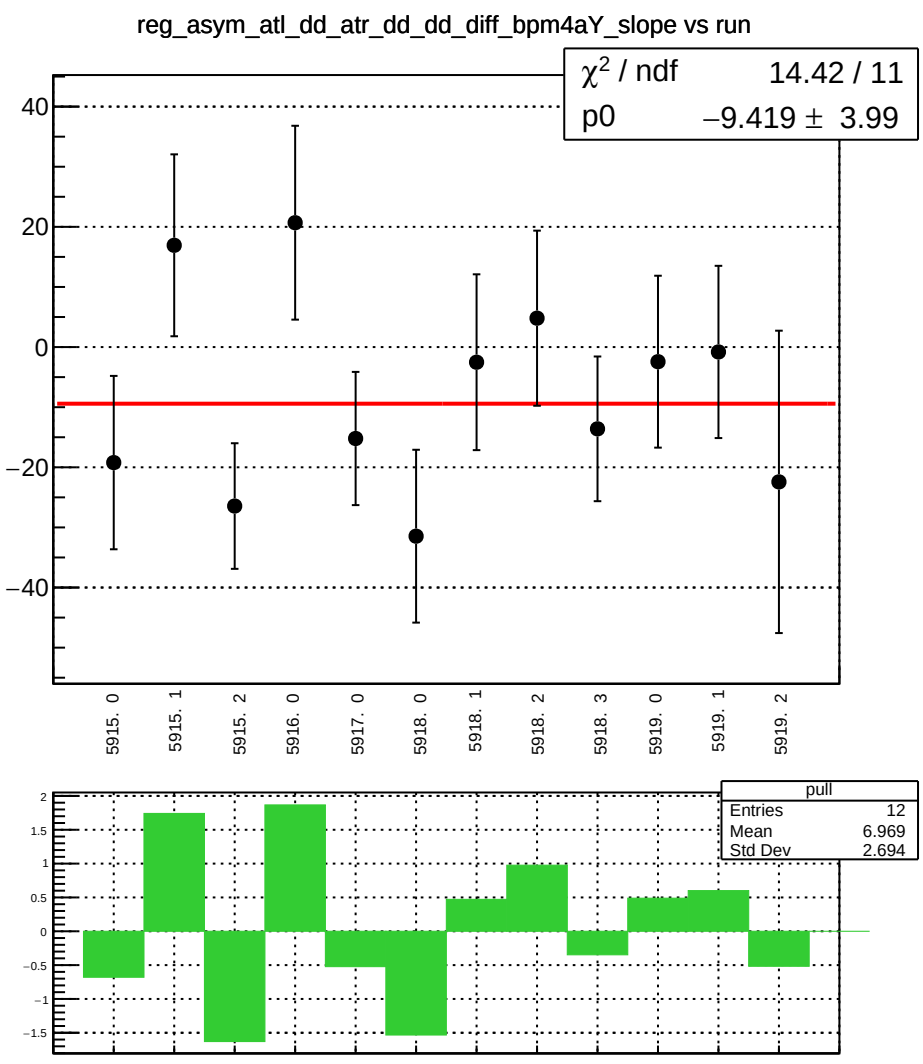

pull1D
Entries 12
Mean 0.01003
Std Dev 0.4792
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

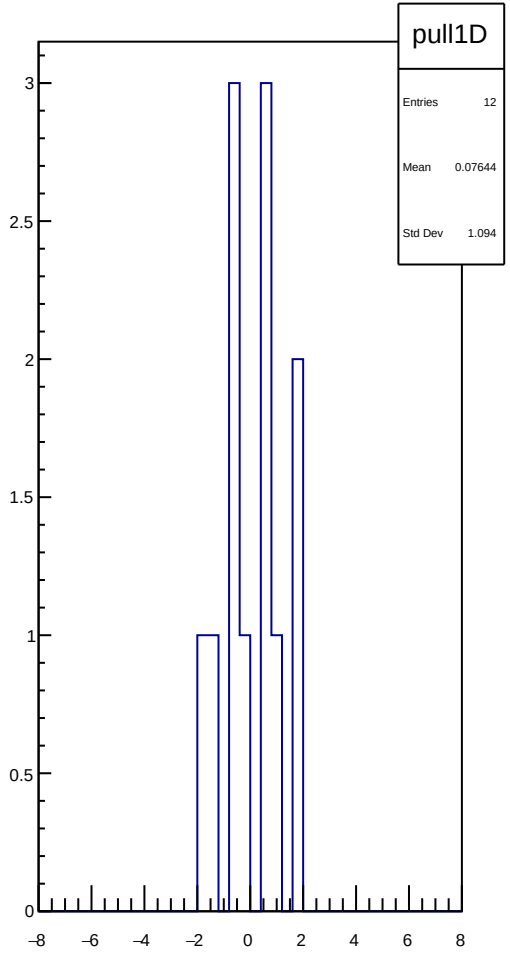

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.286 / 11
p0 −89.87 ± 8.935
−40
−60
−80
−100
−120
−140
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 248.8
Std Dev 241.8
0.4
0.2
0
−0.2
−0.4
−0.6

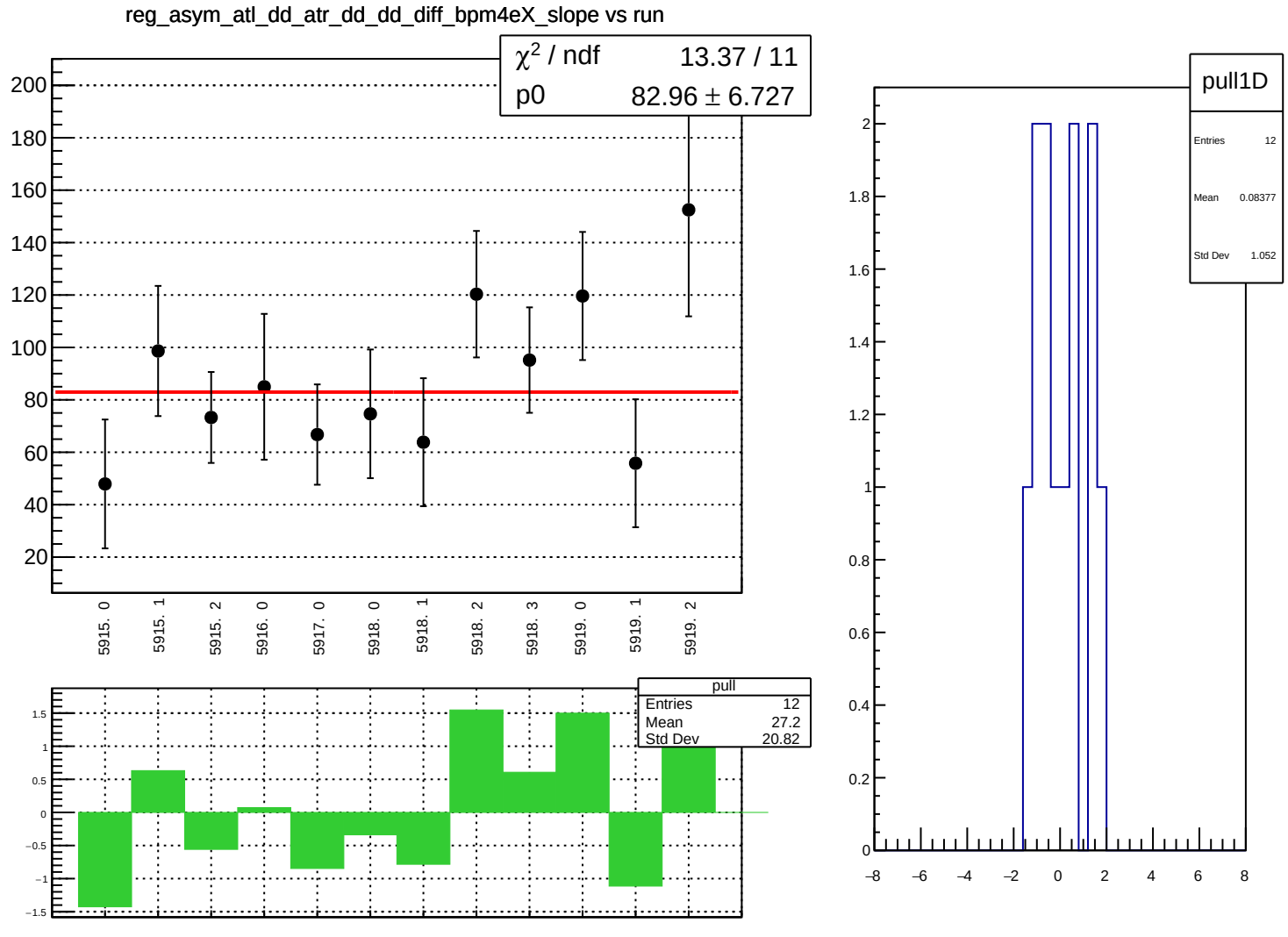

pull1D
Entries 12
Mean 0.001177
Std Dev 0.3273
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

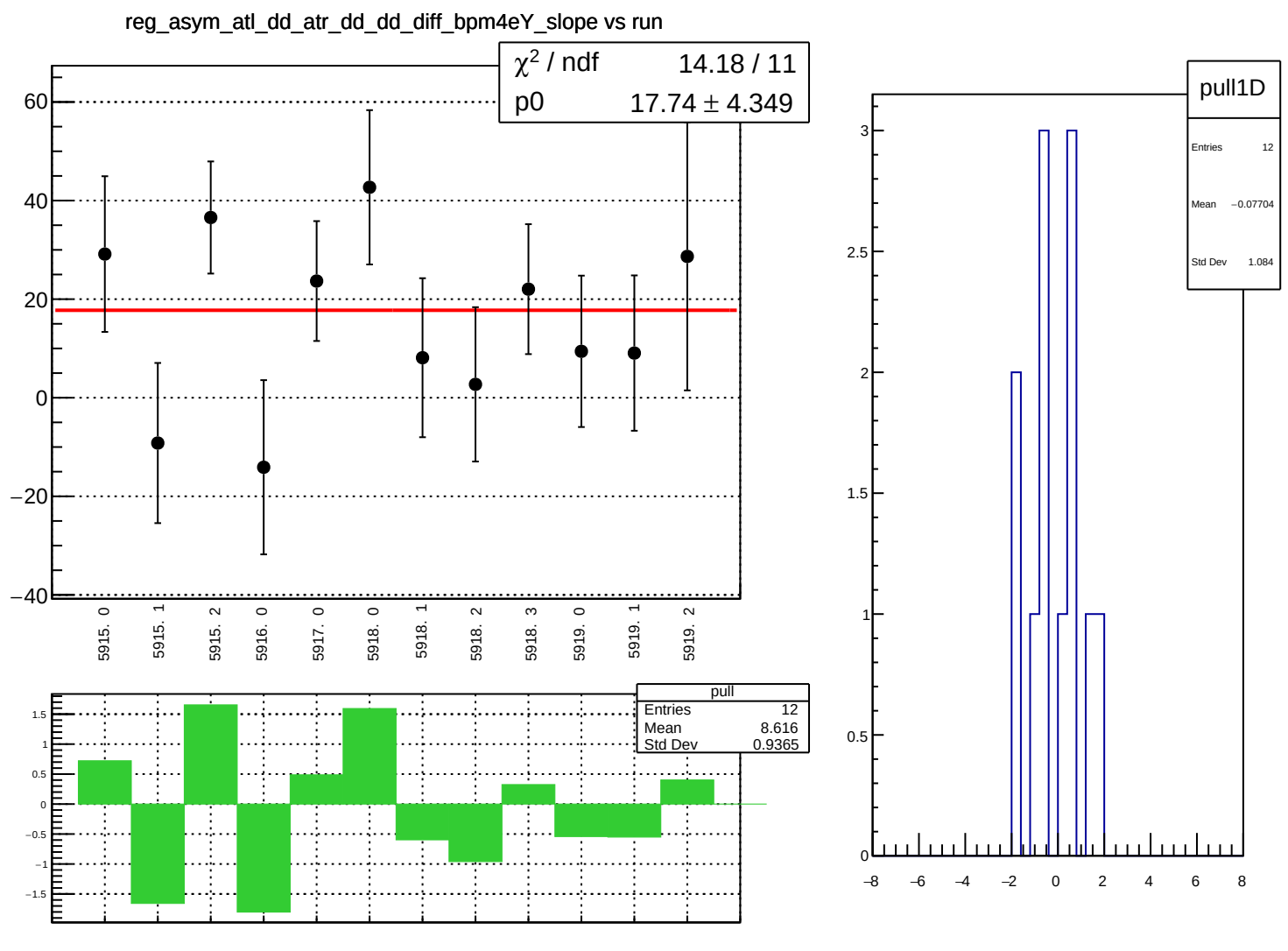

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 5.526 / 11
p0 95.43 ± 0.5952
100
98
96
94
92
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 180.3
Std Dev 172.1
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean −0.002915
Std Dev 0.6786
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

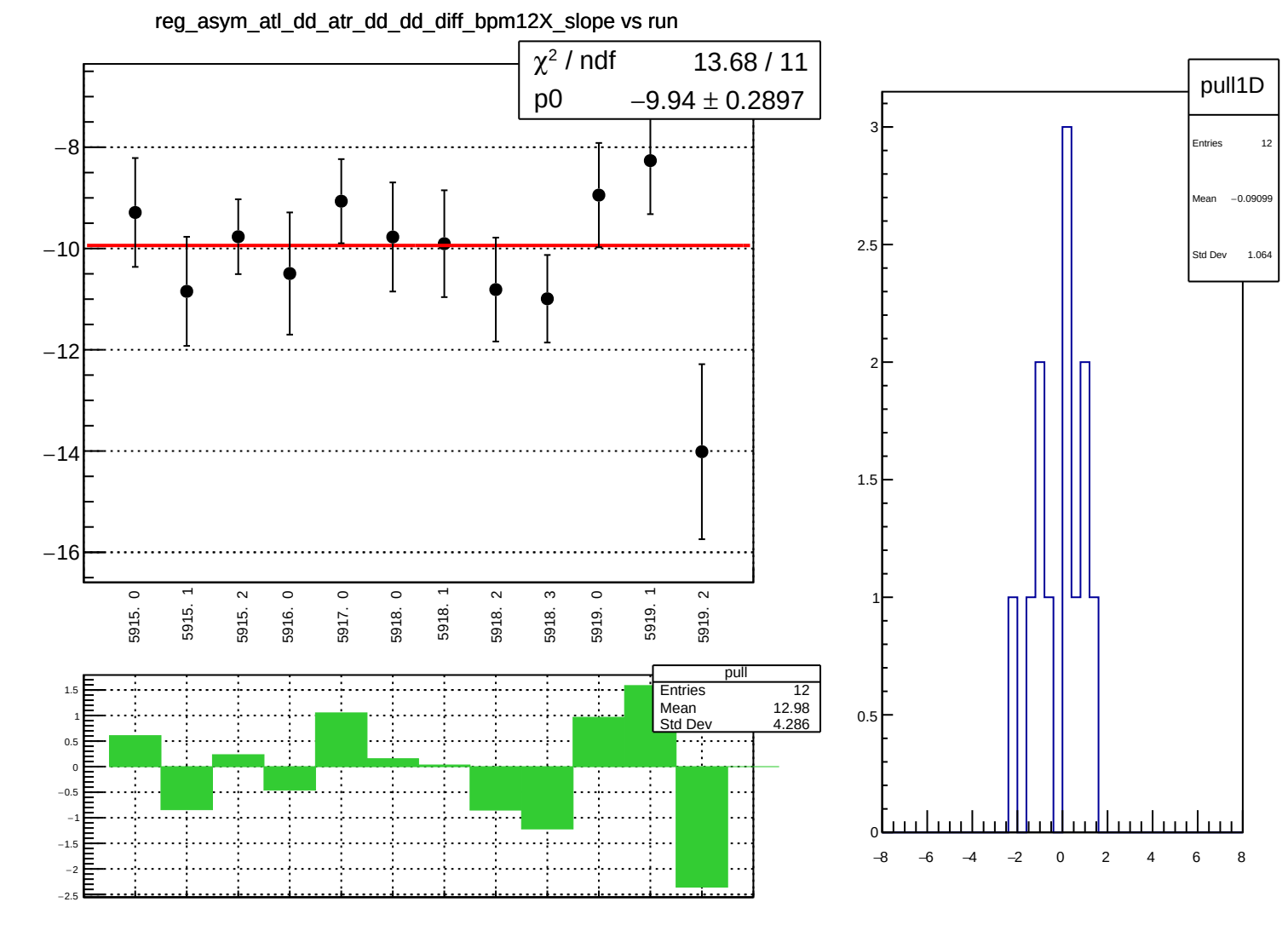

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.96 / 11
p0 −12.31 ± 5.382
40
20
0
−20
−40
−60
−80
−100
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.64
Std Dev 21.27
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.07838
Std Dev 1.076
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

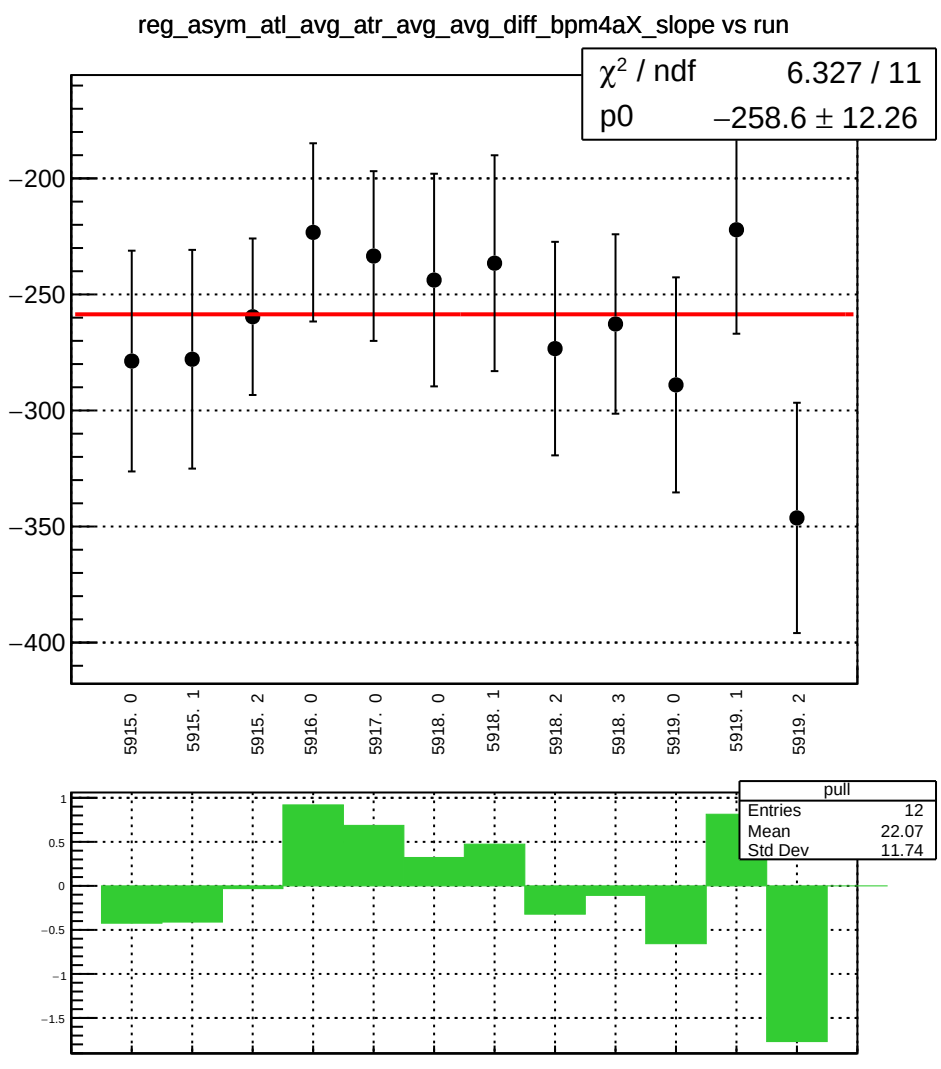

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.42 / 11
p0 −9.419 ± 3.99
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 6.969
Std Dev 2.694
2
1.5
1
0.5
0
−0.5
−1
−1.5

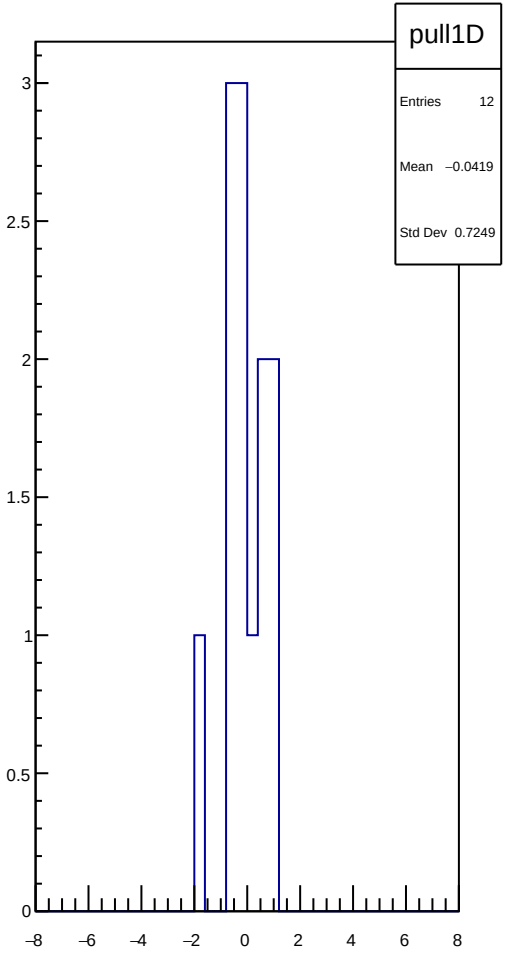

pull1D
Entries 12
Mean 0.07644
Std Dev 1.094
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

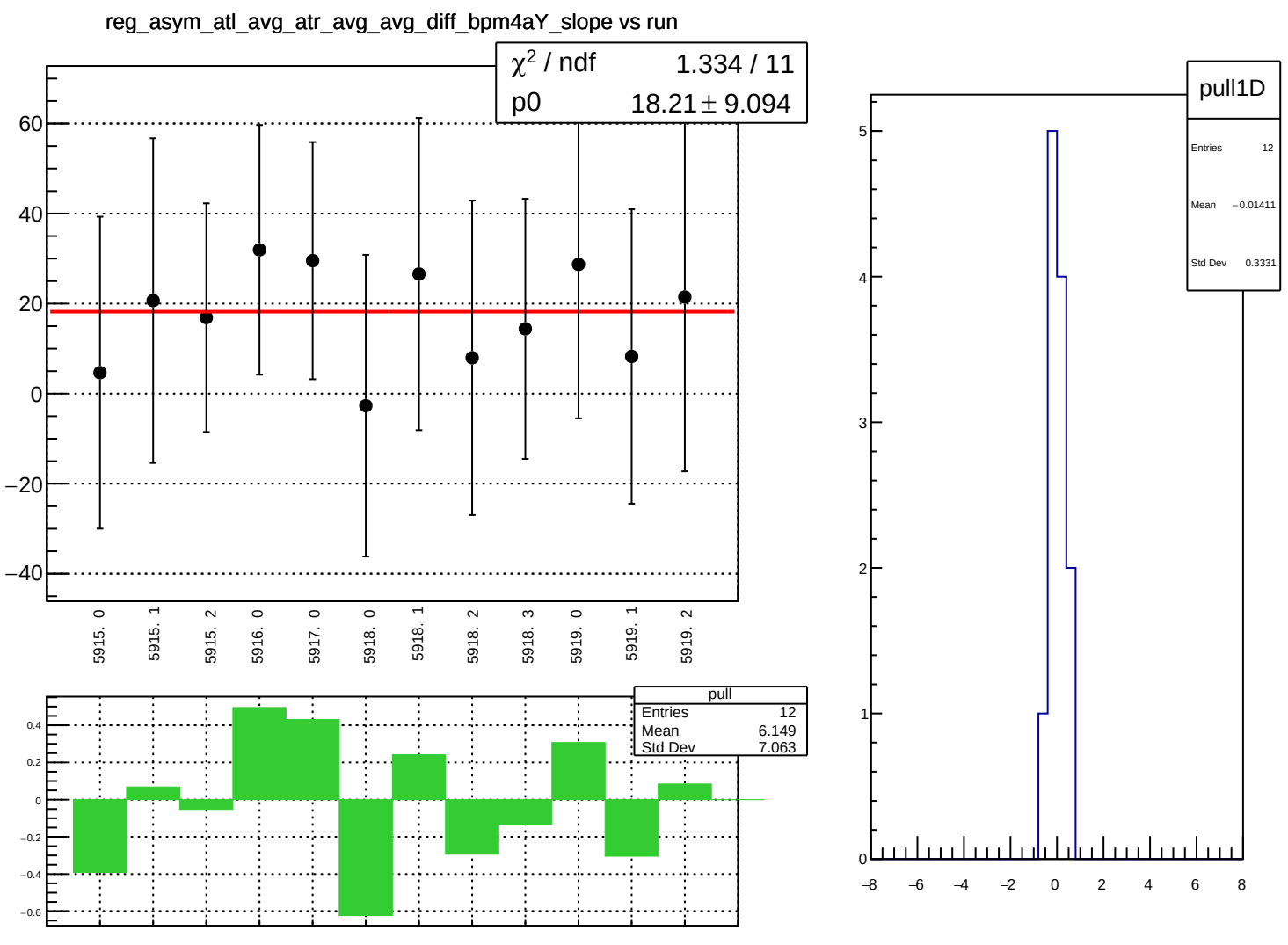

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.37 / 11
p0 82.96 ± 6.727
200
180
160
140
120
100
80
60
40
20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 27.2
Std Dev 20.82
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.08377
Std Dev 1.052
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

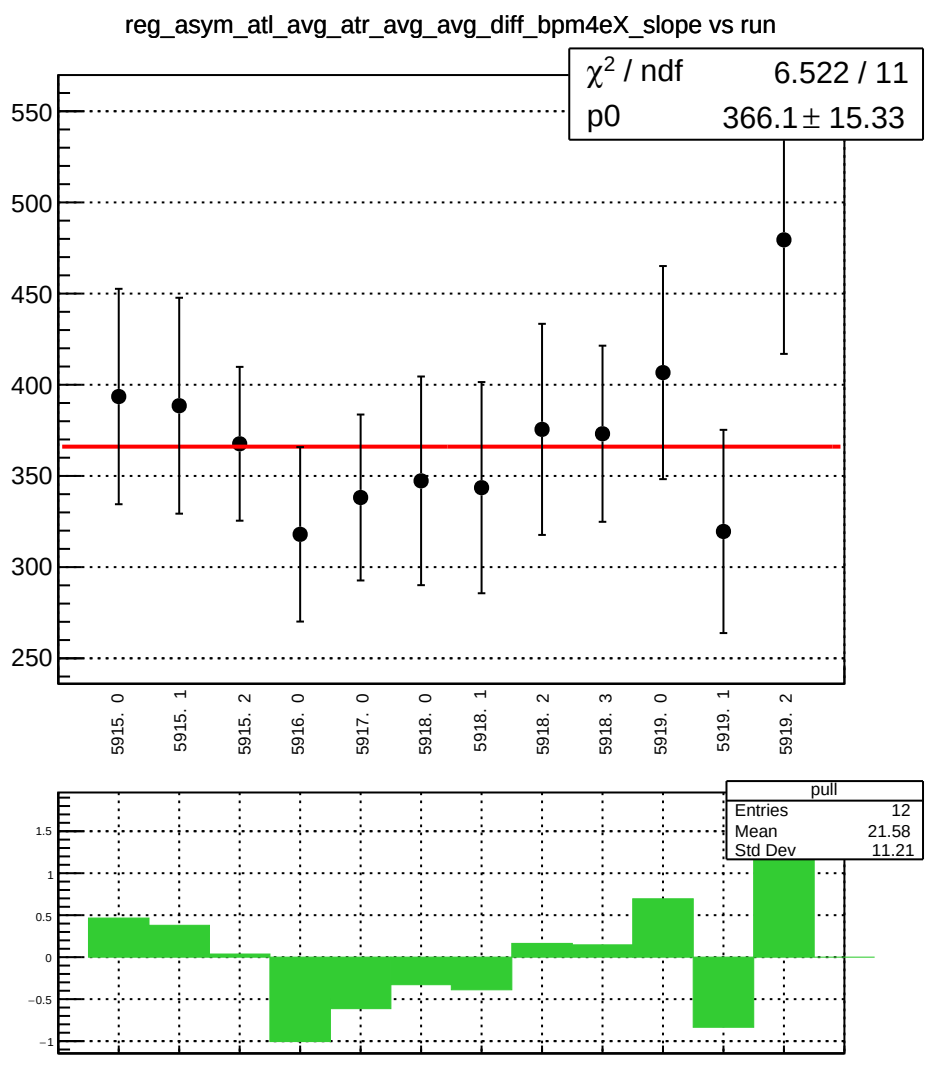

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.18 / 11
p0 17.74 ± 4.349
60
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 8.616
Std Dev 0.9365
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean −0.07704
Std Dev 1.084
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

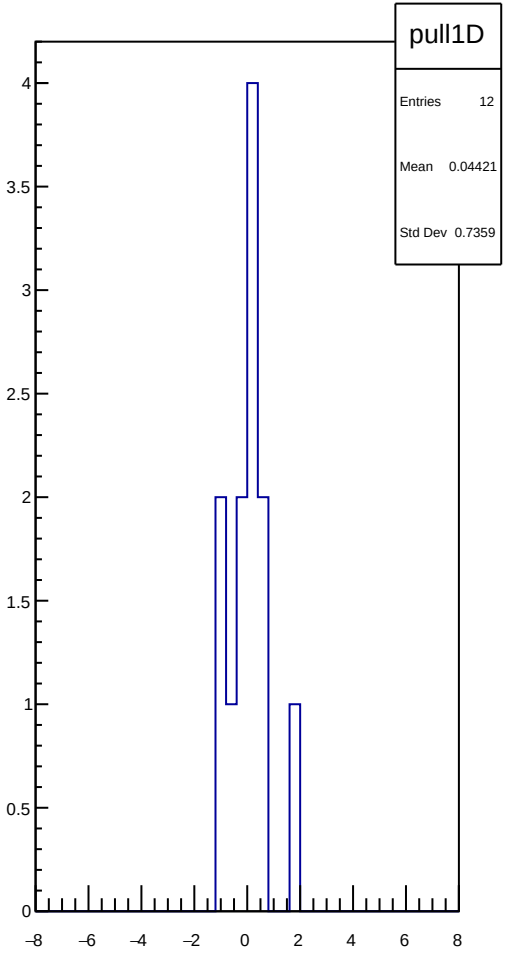

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 13.68 / 11
p0 −9.94 ± 0.2897
−8
−10
−12
−14
−16
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.98
Std Dev 4.286
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean −0.09099
Std Dev 1.064
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

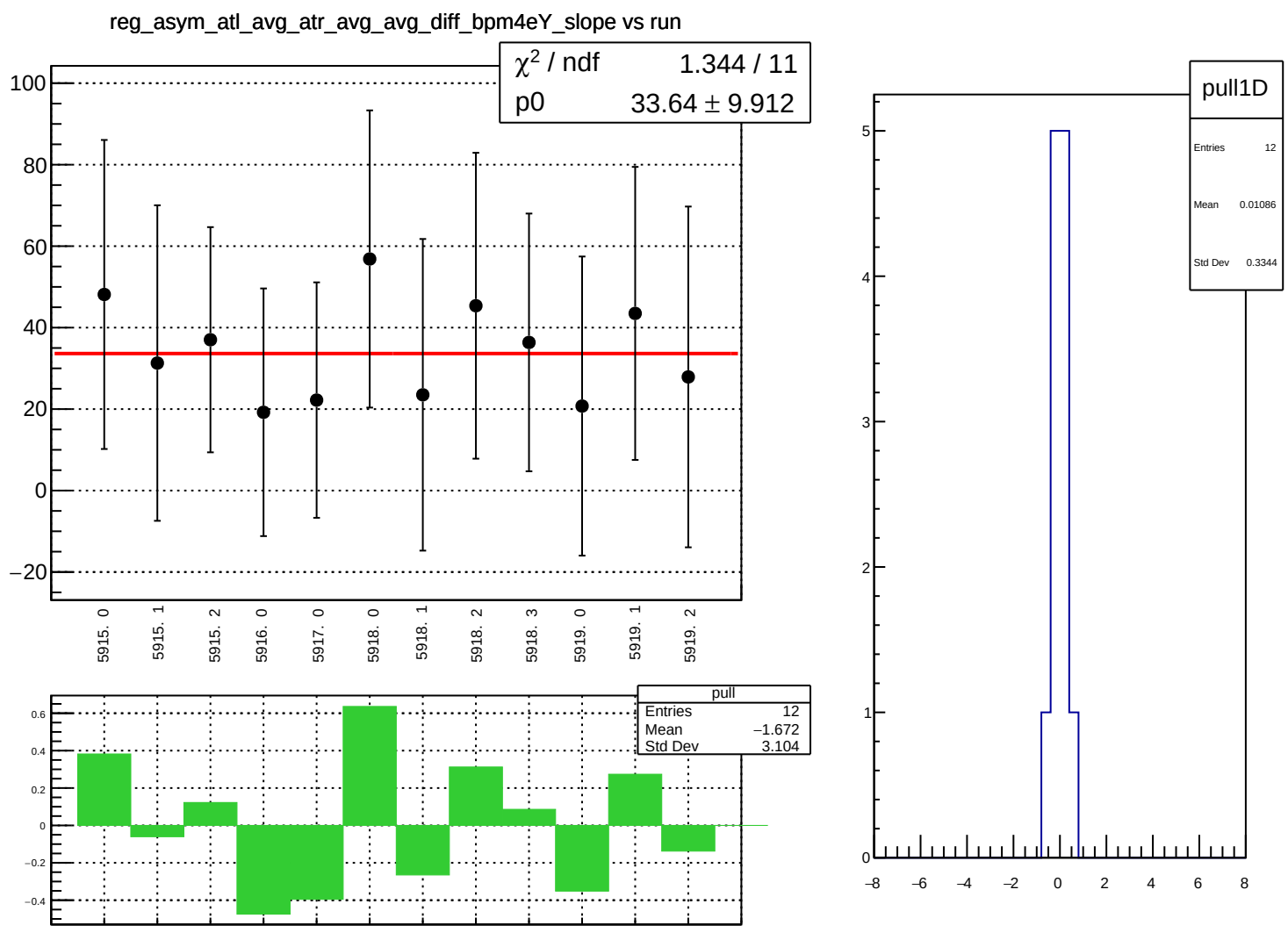

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.327 / 11
p0 −258.6 ± 12.26
−200
−250
−300
−350
−400
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 22.07
Std Dev 11.74
1
0.5
0
−0.5
−1
−1.5

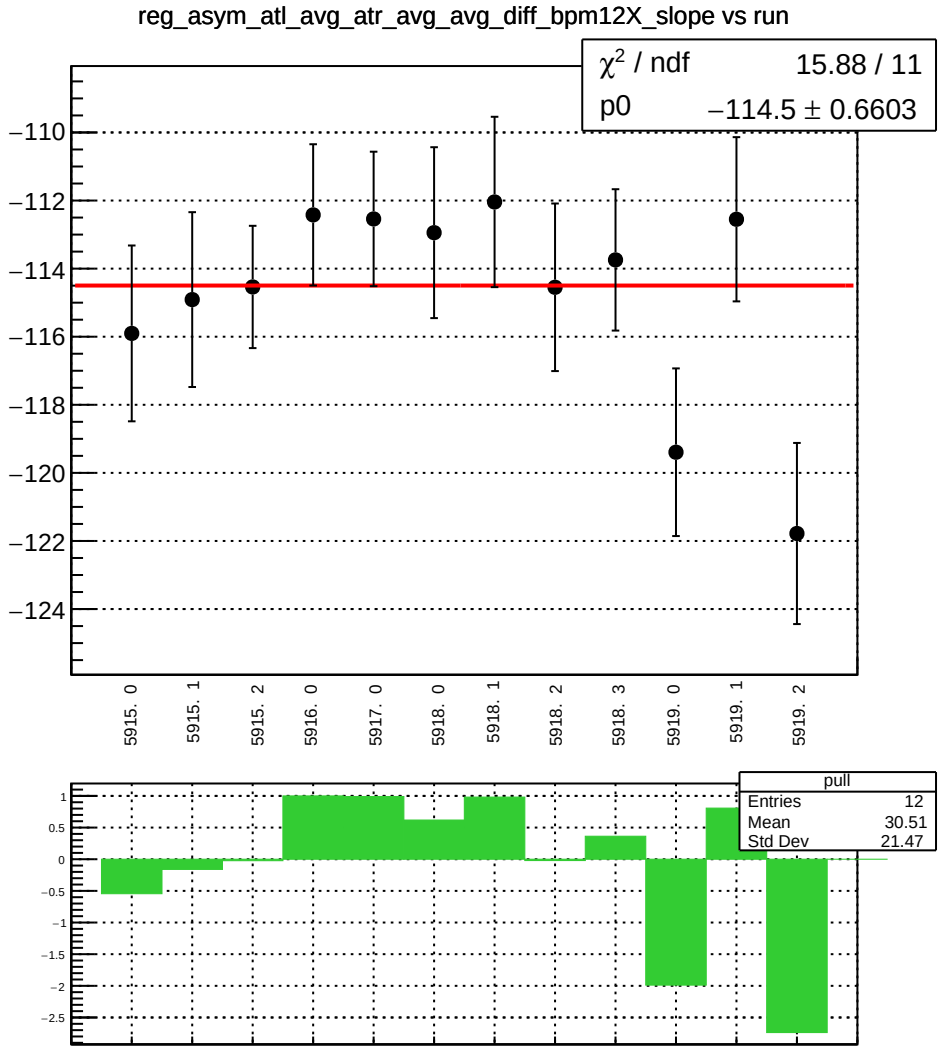

pull1D
Entries 12
Mean −0.0419
Std Dev 0.7249
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

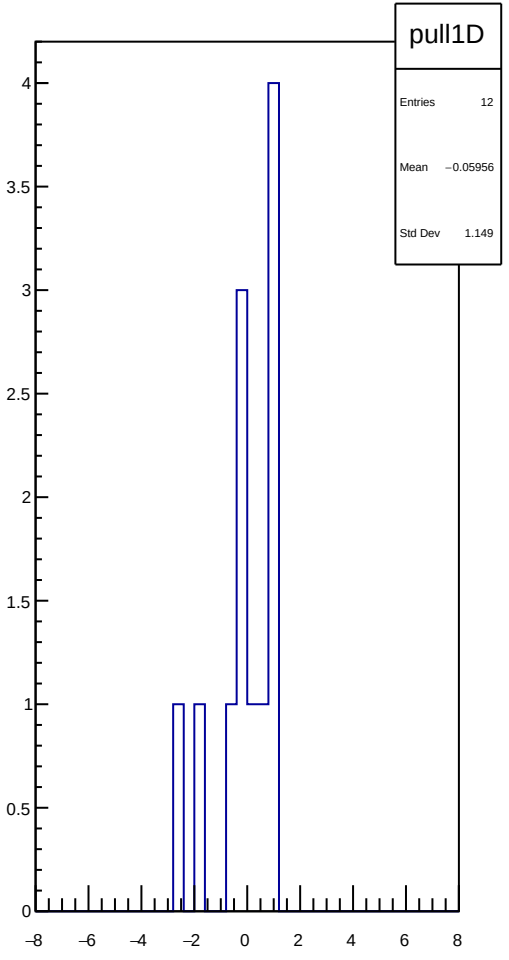

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.334 / 11
p0 18.21 ± 9.094
60
40
20
0
−20
−40
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 6.149
Std Dev 7.063
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 12
Mean −0.01411
Std Dev 0.3331
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

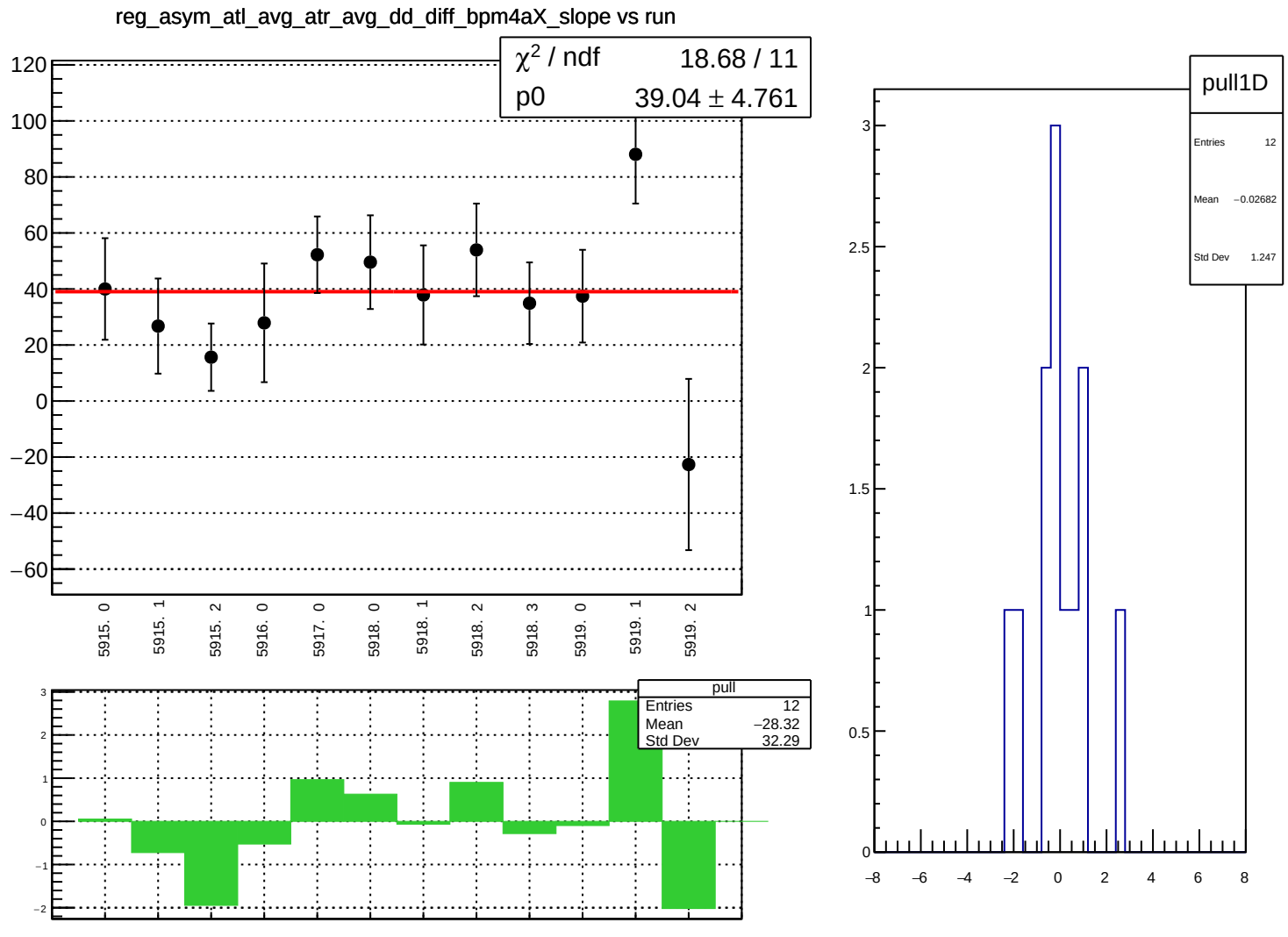

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.522 / 11
p0 366.1 ± 15.33
550
500
450
400
350
300
250
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 21.58
Std Dev 11.21
1.5
1
0.5
0
−0.5
−1

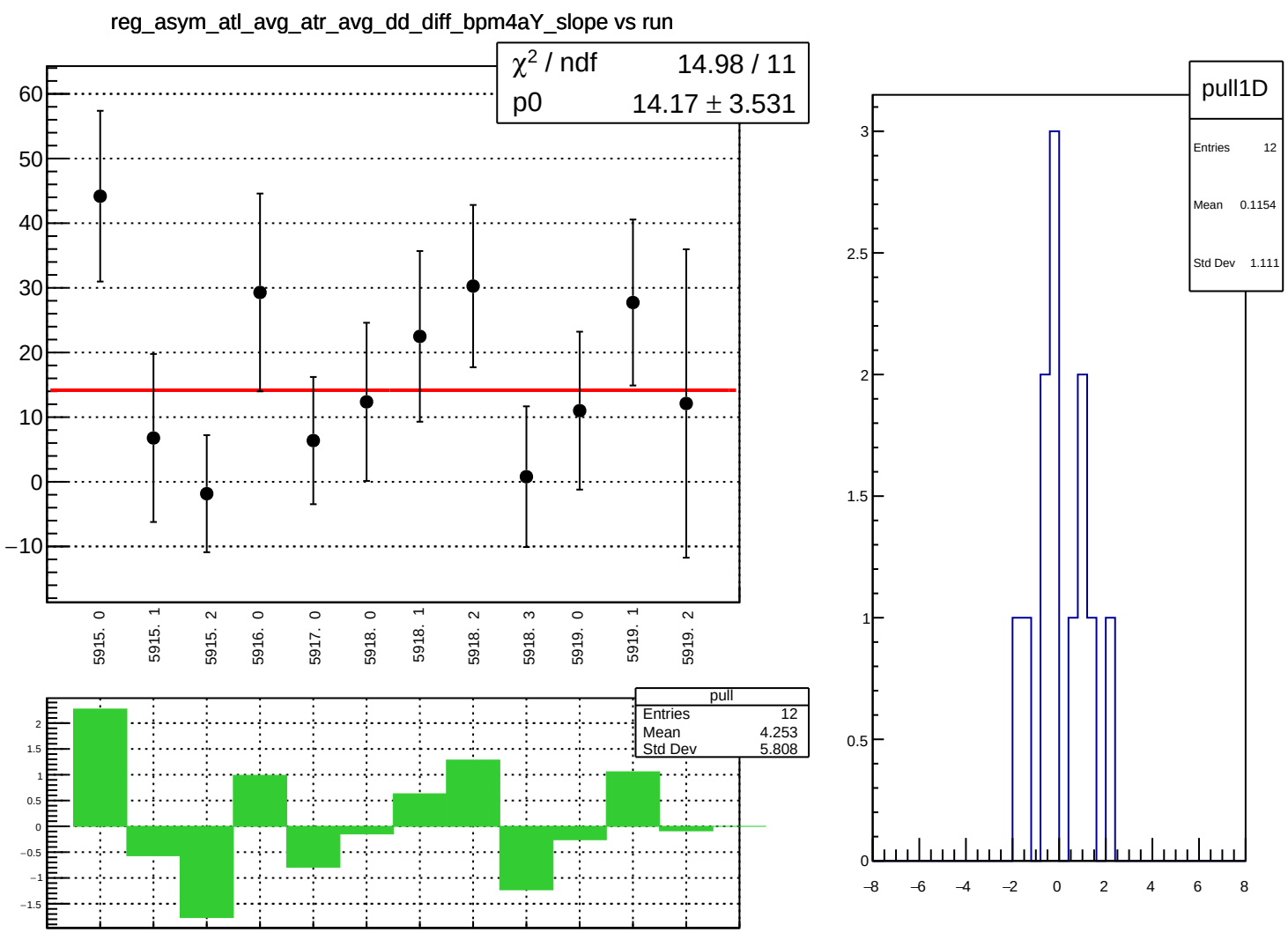

pull1D
Entries 12
Mean 0.04421
Std Dev 0.7359
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

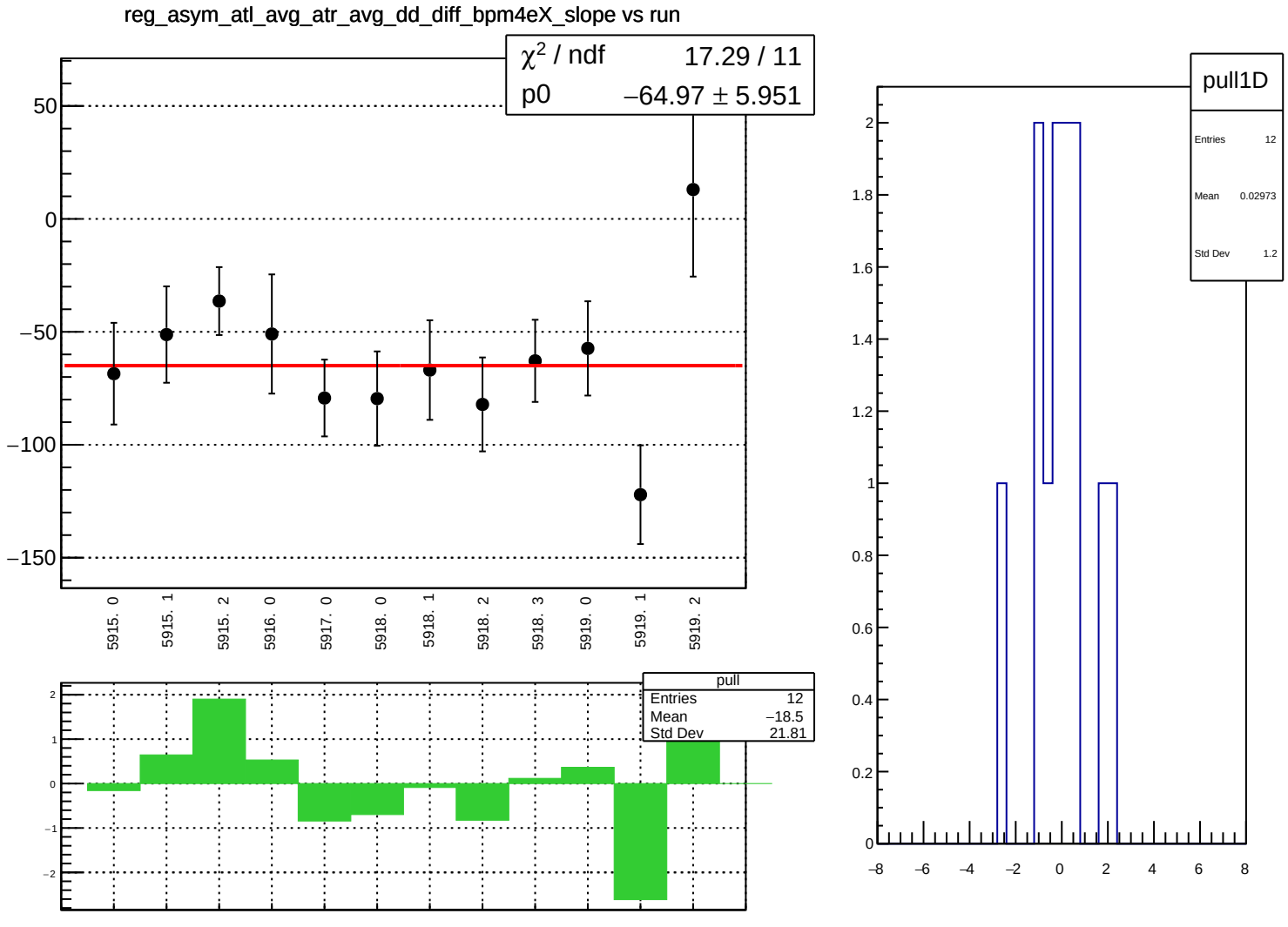

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.344 / 11
p0 33.64 ± 9.912
100
80
60
40
20
0
−20
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −1.672
Std Dev 3.104
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 12
Mean 0.01086
Std Dev 0.3344
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

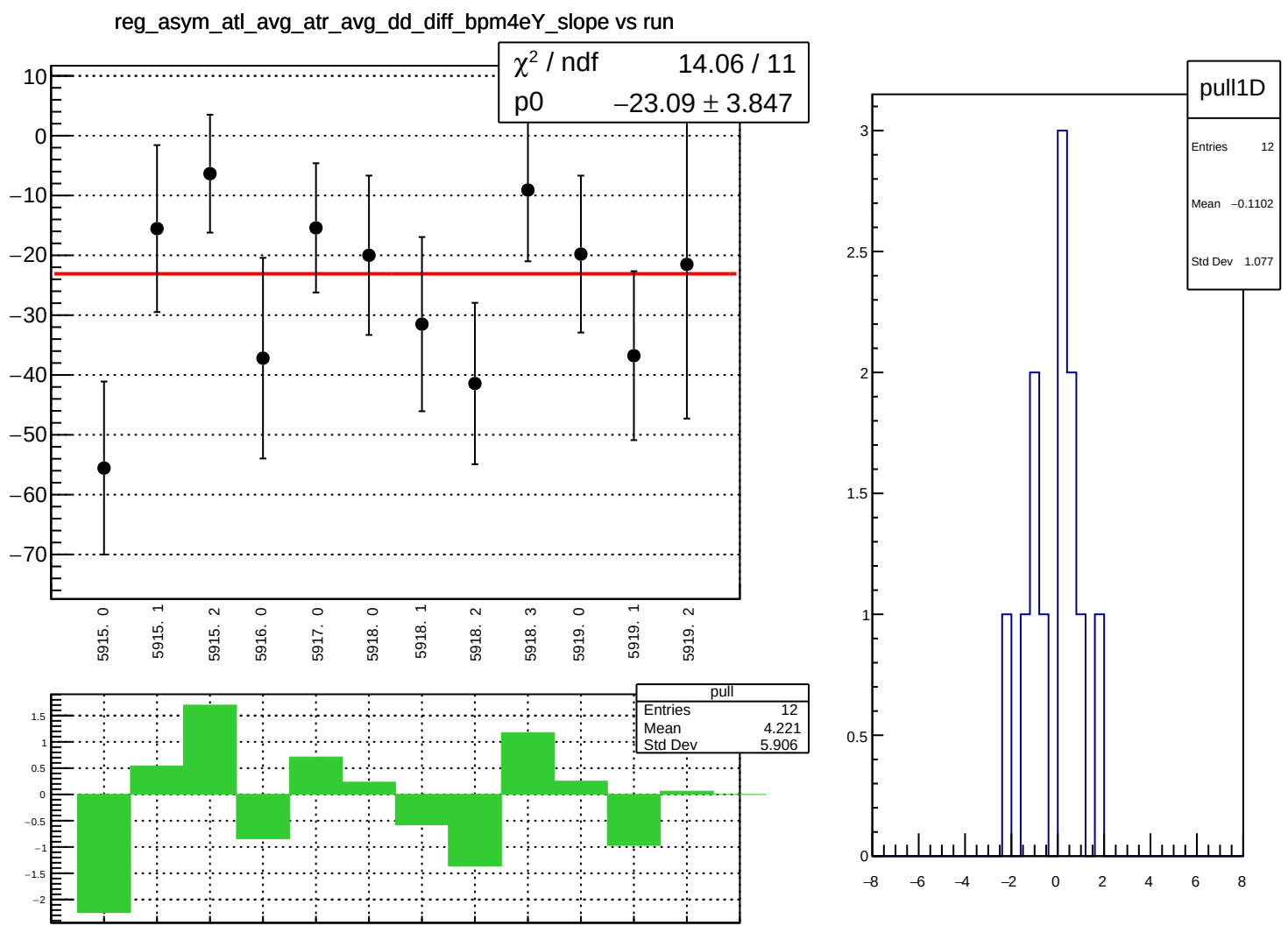

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 15.88 / 11
p0 −114.5 ± 0.6603
−110
−112
−114
−116
−118
−120
−122
−124
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 30.51
Std Dev 21.47
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

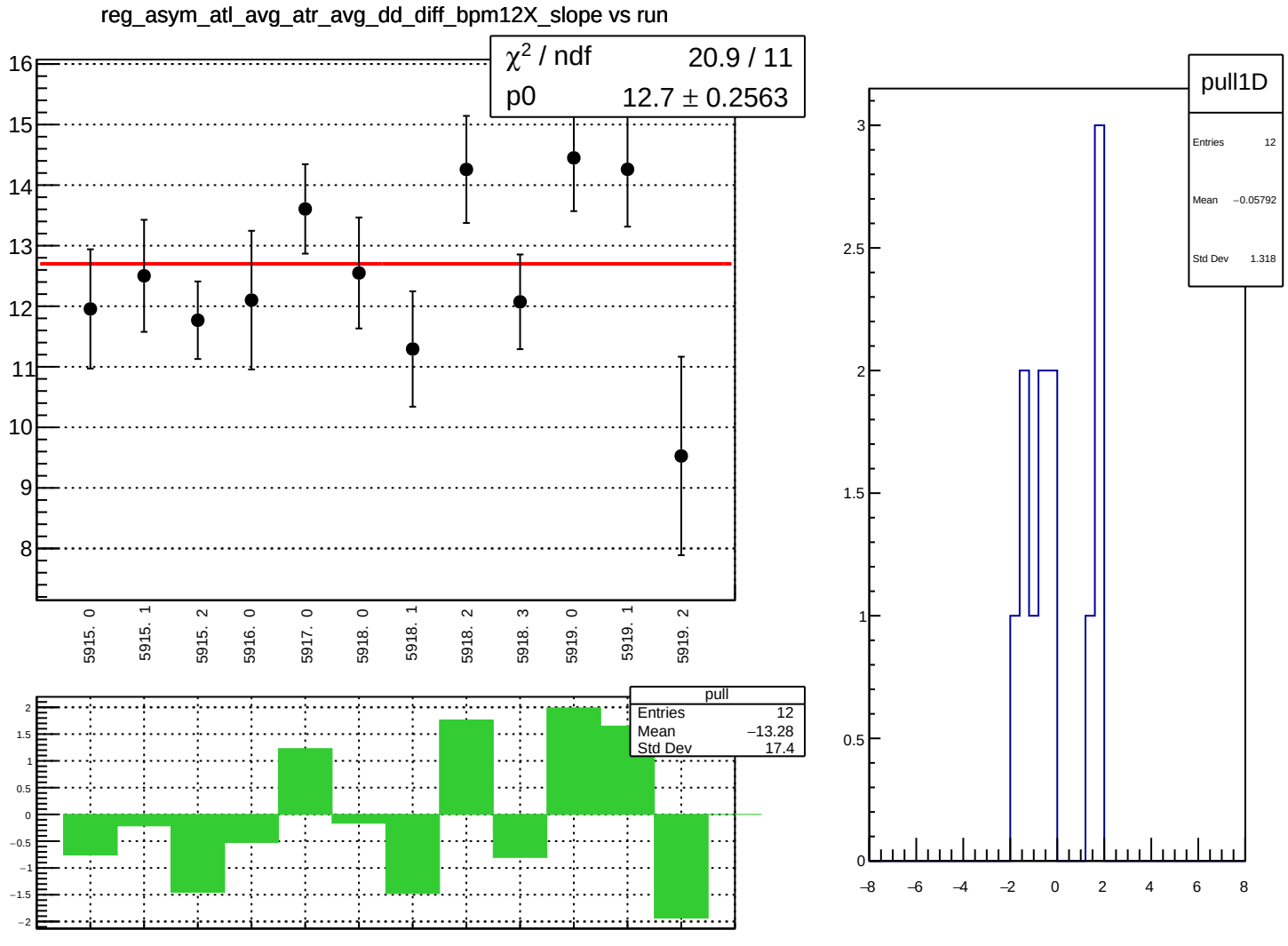

pull1D
Entries 12
Mean −0.05956
Std Dev 1.149
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

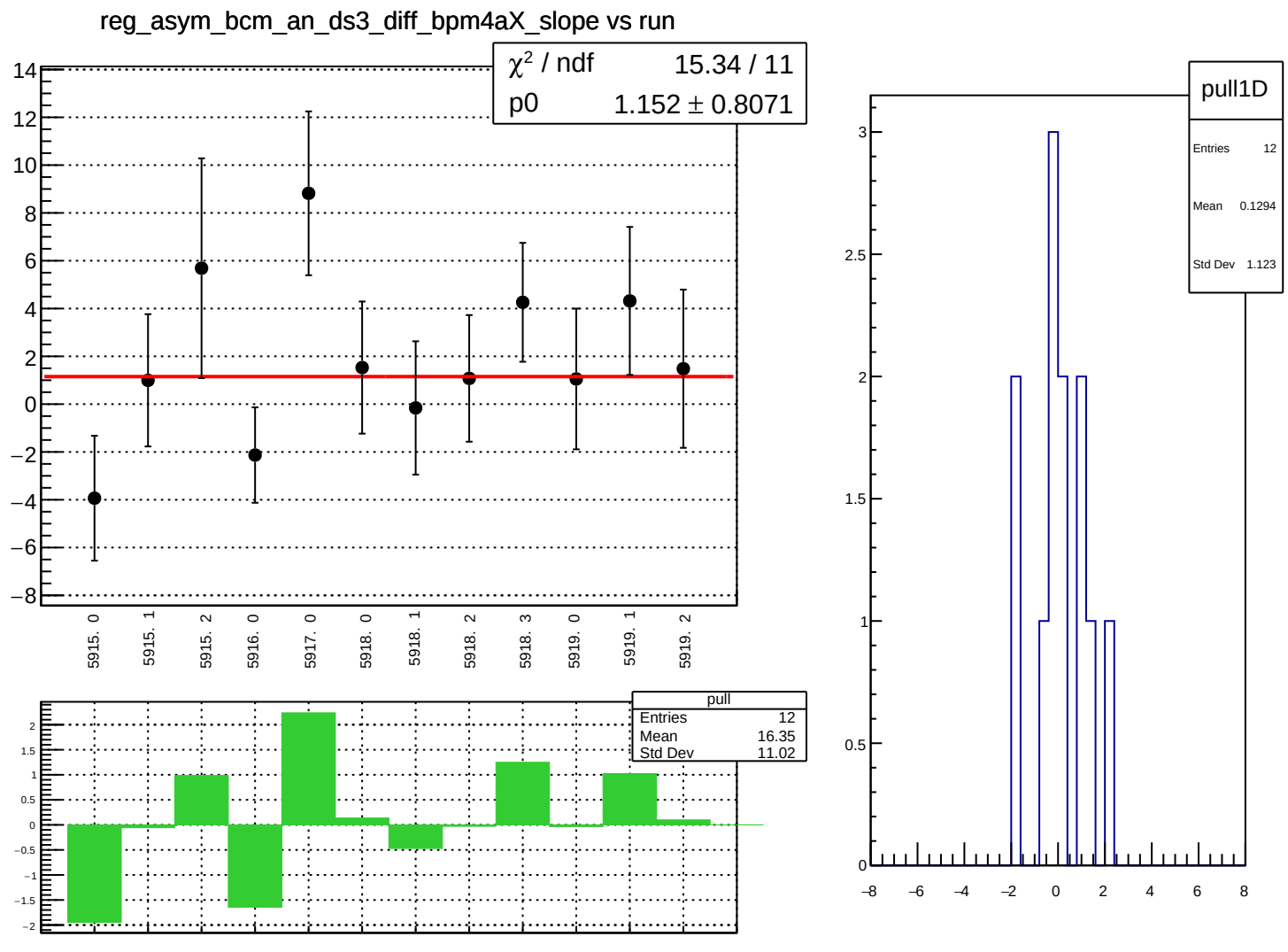

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.68 / 11
p0 39.04 ± 4.761
120
100
80
60
40
20
0
−20
−40
−60
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −28.32
Std Dev 32.29
3
2
1
0
−1
−2
pull1D
Entries 12
Mean −0.02682
Std Dev 1.247
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

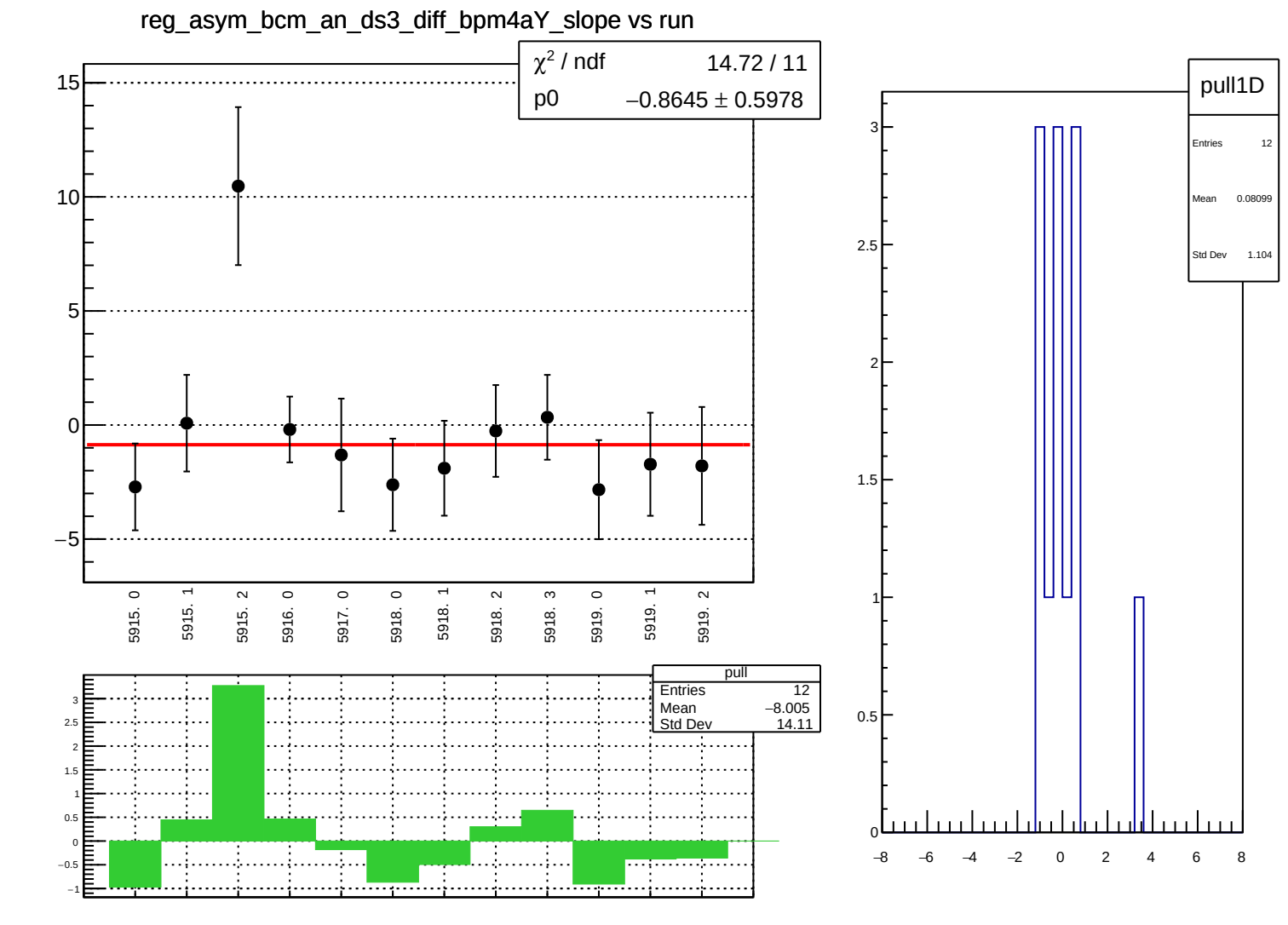

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.98 / 11
p0 14.17 ± 3.531
60
50
40
30
20
10
0
−10
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.253
Std Dev 5.808
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 12
Mean 0.1154
Std Dev 1.111
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

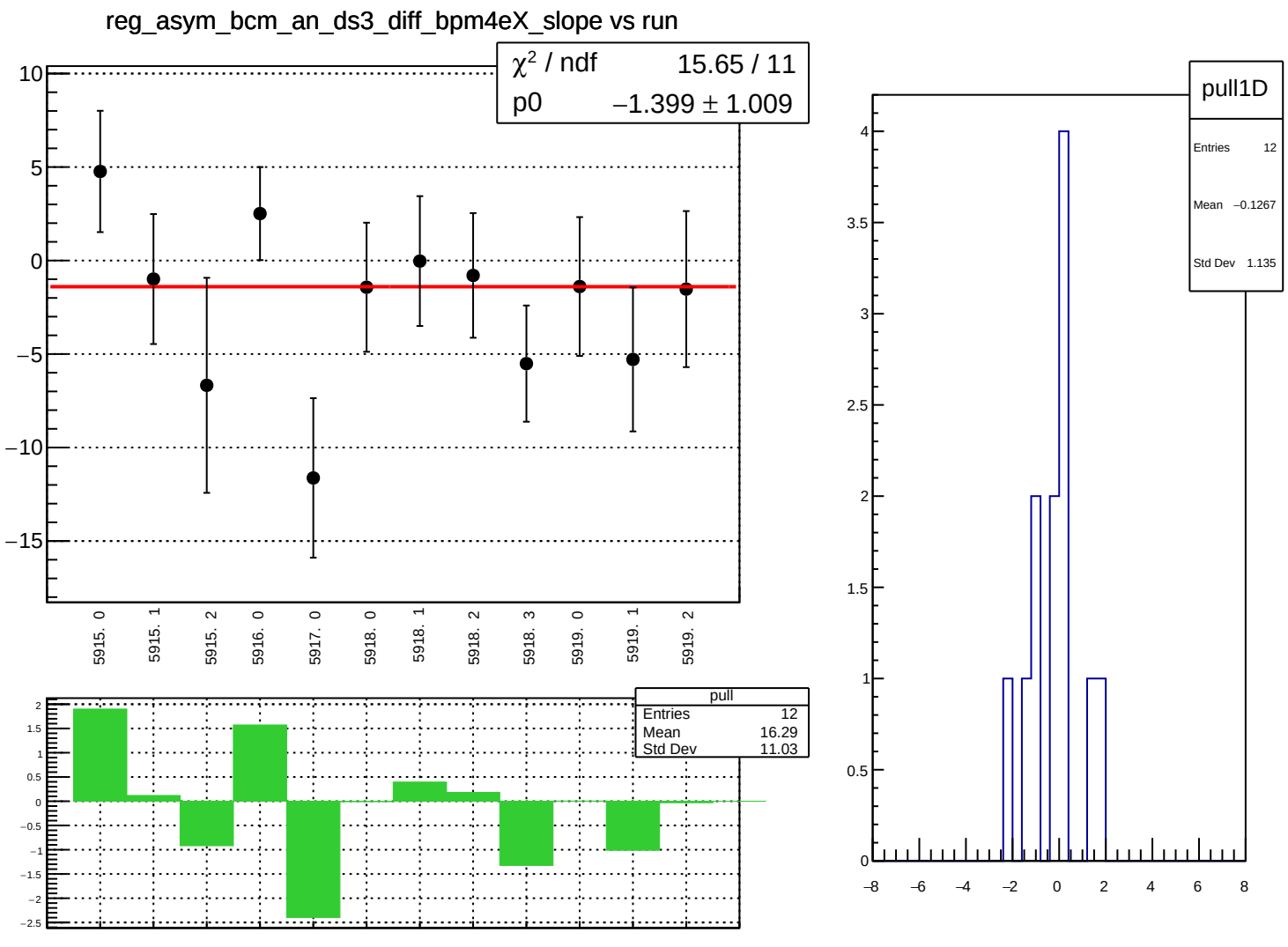

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.29 / 11
p0 −64.97 ± 5.951
50
0
−50
−100
−150
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −18.5
Std Dev 21.81
2
1
0
−1
−2
pull1D
Entries 12
Mean 0.02973
Std Dev 1.2
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

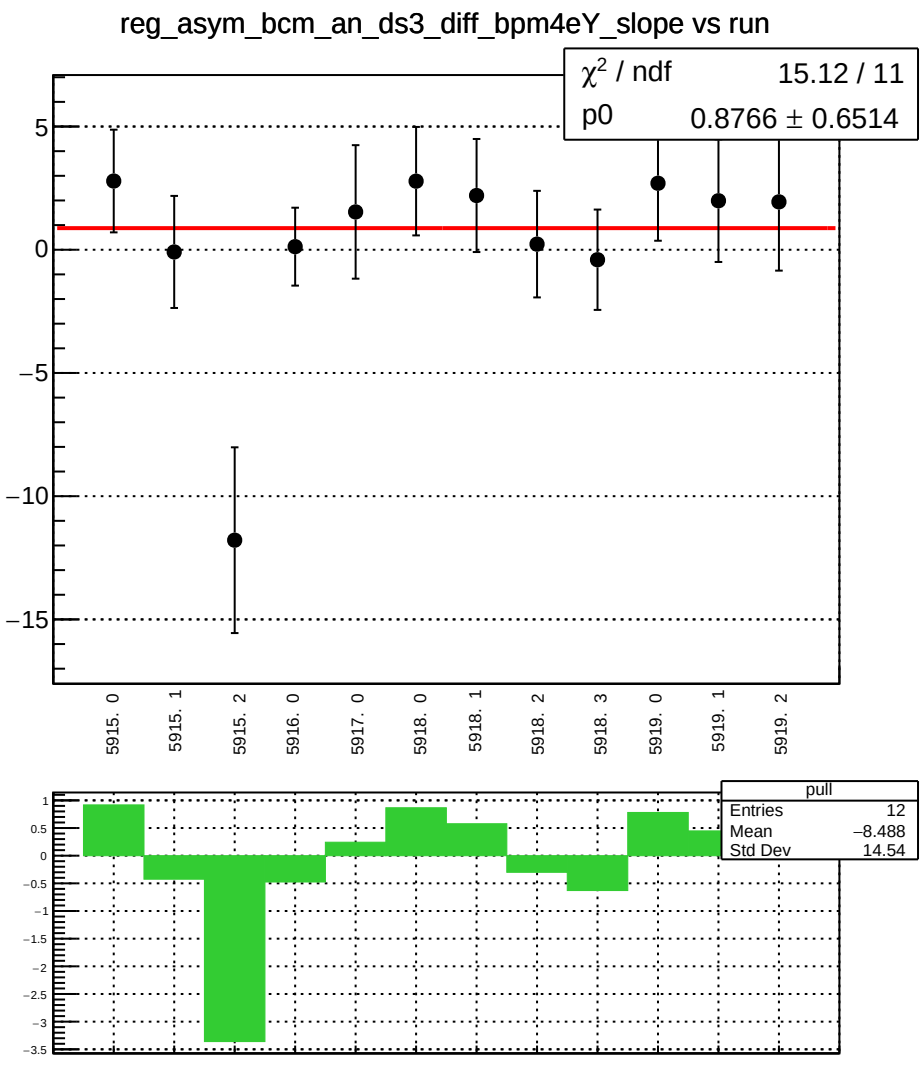

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.06 / 11
p0 −23.09 ± 3.847
10
0
−10
−20
−30
−40
−50
−60
−70
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 4.221
Std Dev 5.906
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean −0.1102
Std Dev 1.077
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

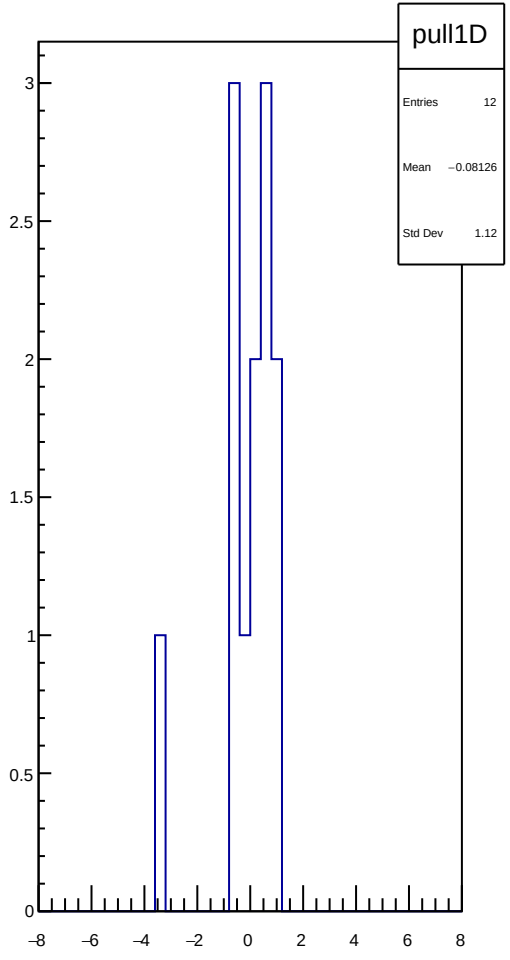

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 20.9 / 11
p0 12.7 ± 0.2563
16
15
14
13
12
11
10
9
8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −13.28
Std Dev 17.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean −0.05792
Std Dev 1.318
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

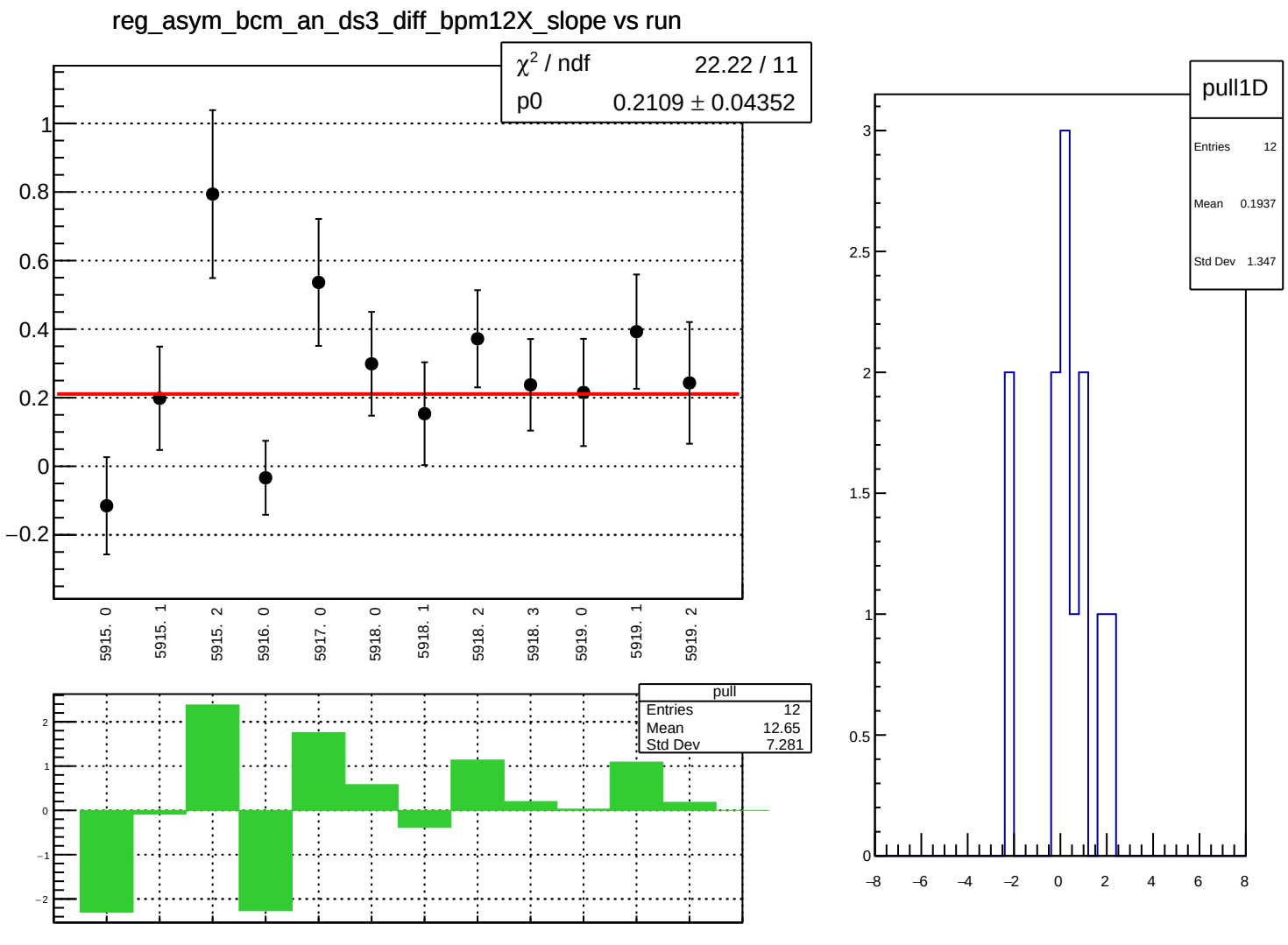

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 15.34 / 11
p0 1.152 ± 0.8071
14
12
10
8
6
4
2
0
−2
−4
−6
−8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.35
Std Dev 11.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.1294
Std Dev 1.123
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

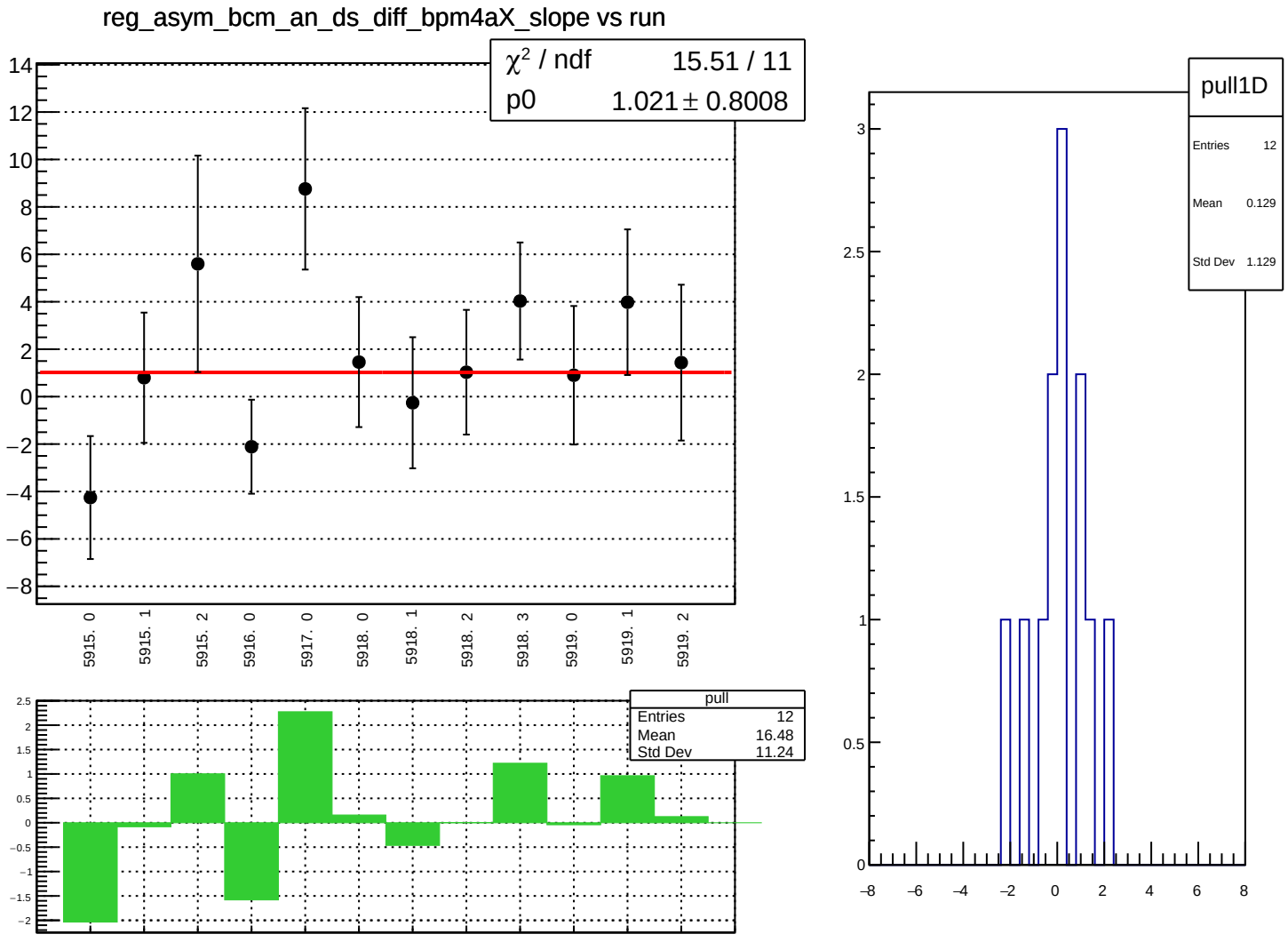

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 14.72 / 11
p0 −0.8645 ± 0.5978
15
10
5
0
−5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −8.005
Std Dev 14.11
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.08099
Std Dev 1.104
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

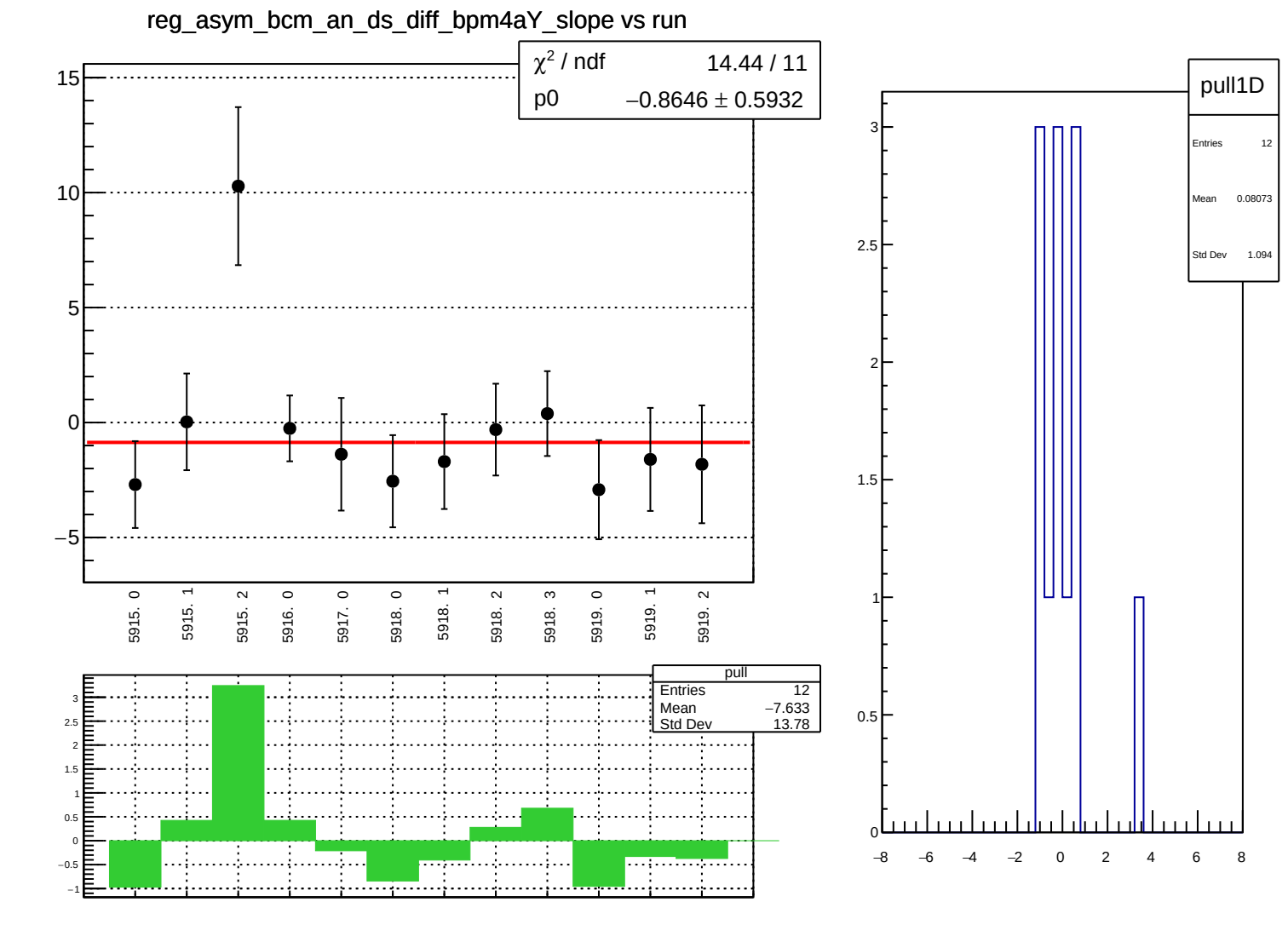

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 15.65 / 11
p0 −1.399 ± 1.009
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.29
Std Dev 11.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean −0.1267
Std Dev 1.135
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

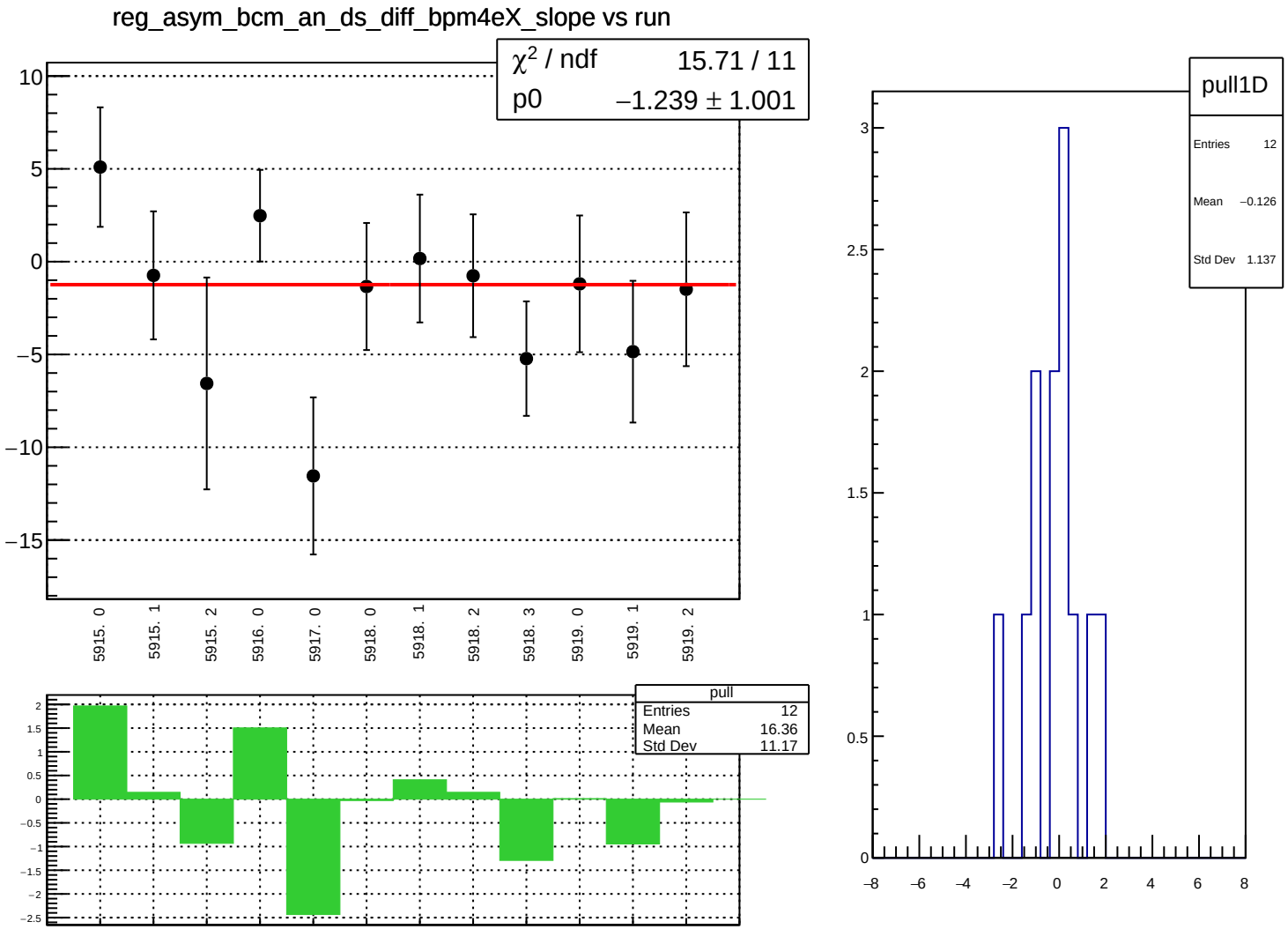

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 15.12 / 11
p0 0.8766 ± 0.6514
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −8.488
Std Dev 14.54
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

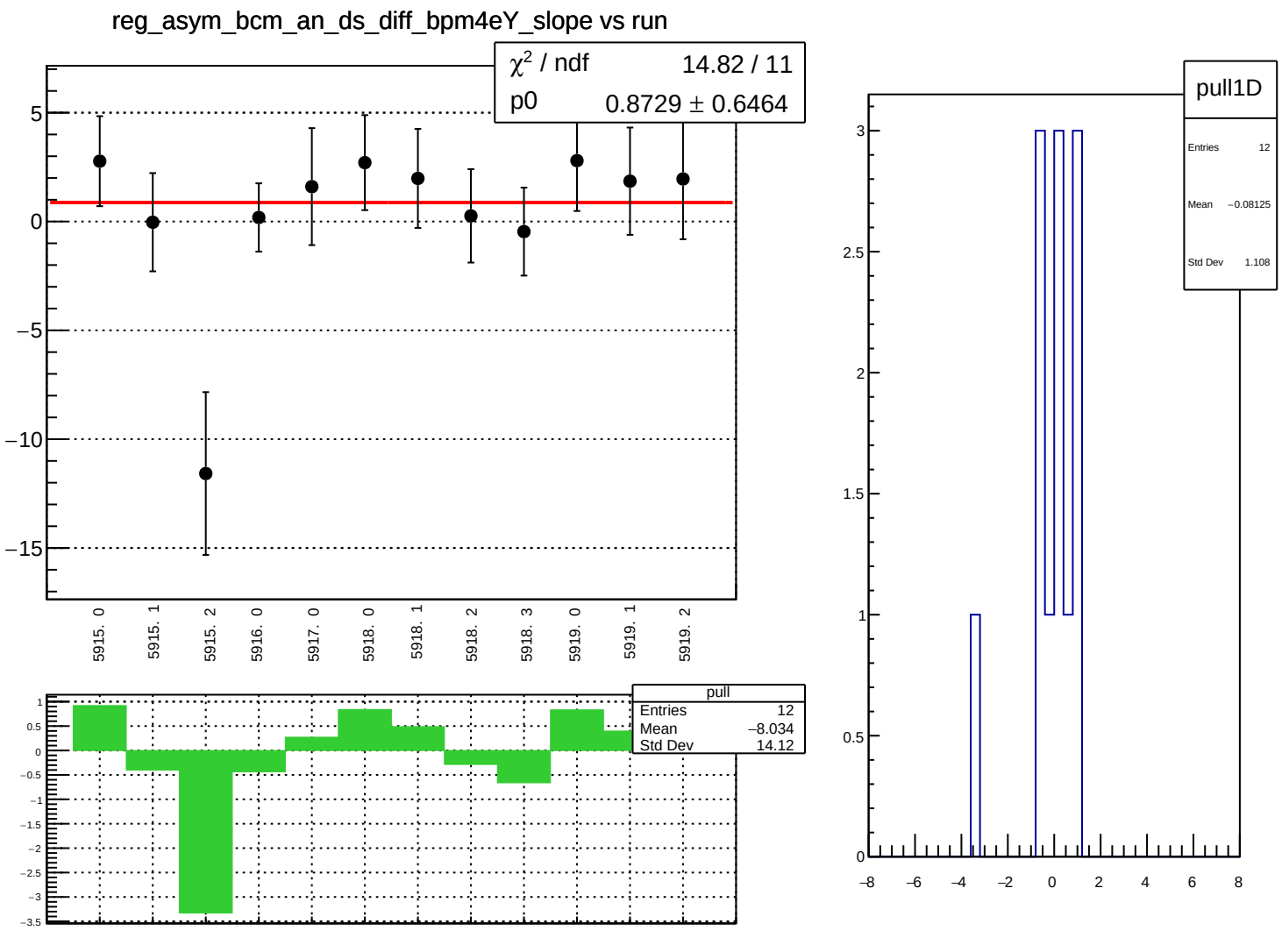

pull1D
Entries 12
Mean −0.08126
Std Dev 1.12
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

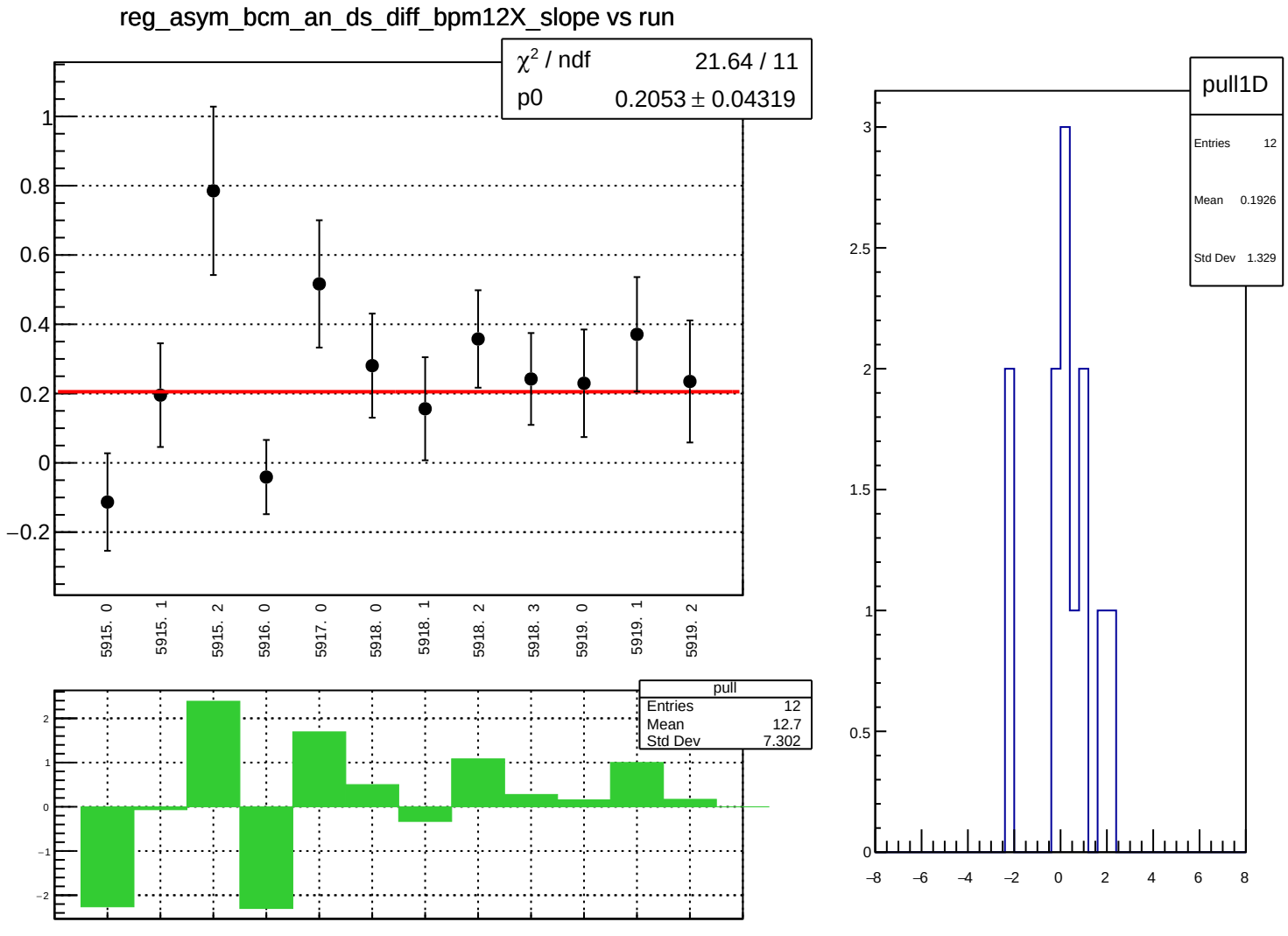

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 22.22 / 11
p0 0.2109 ± 0.04352
1
0.8
0.6
0.4
0.2
0
−0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.65
Std Dev 7.281
2
1
0
−1
−2
pull1D
Entries 12
Mean 0.1937
Std Dev 1.347
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

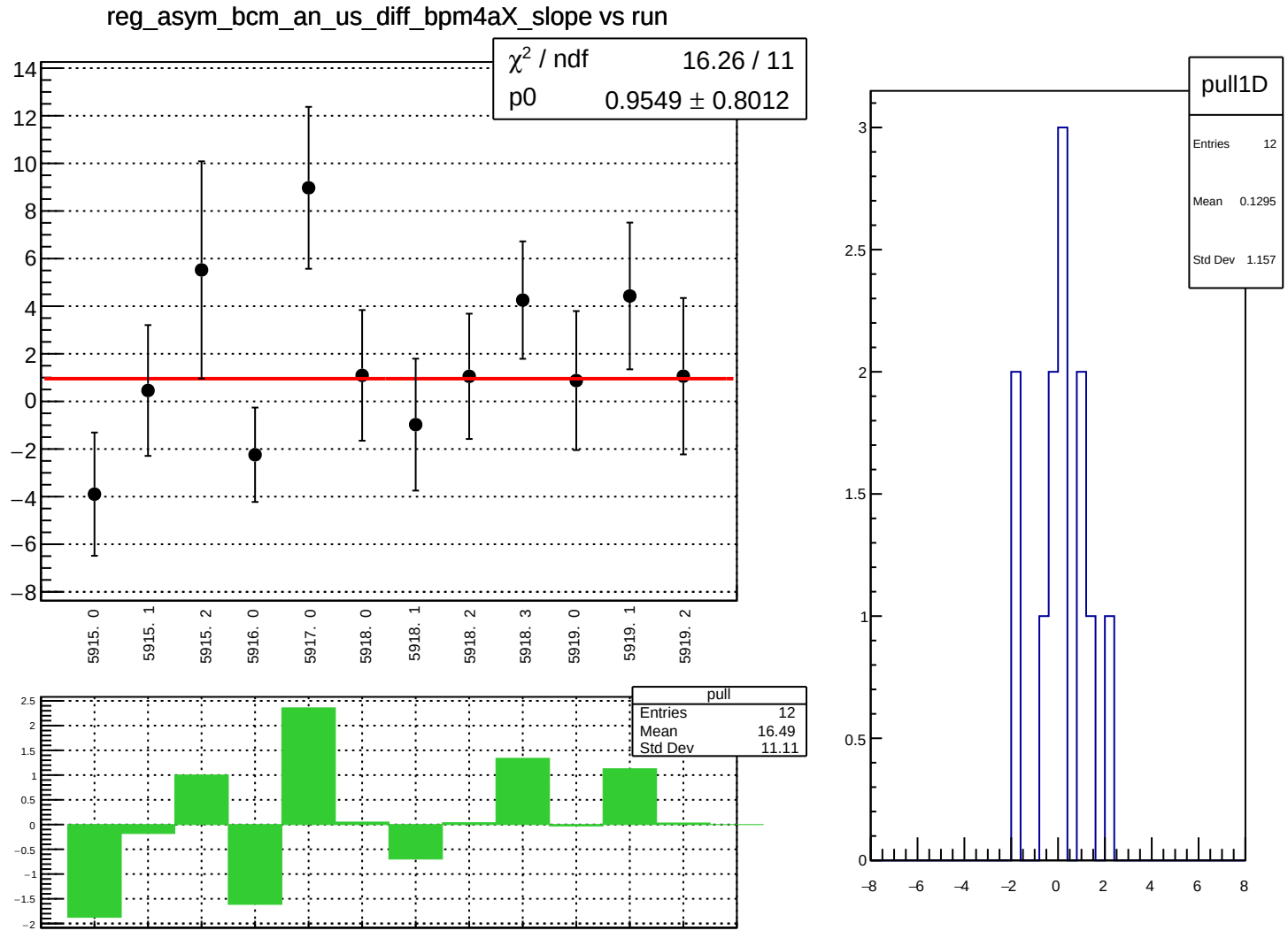

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 15.51 / 11
p0 1.021 ± 0.8008
14
12
10
8
6
4
2
0
−2
−4
−6
−8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.48
Std Dev 11.24
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.129
Std Dev 1.129
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

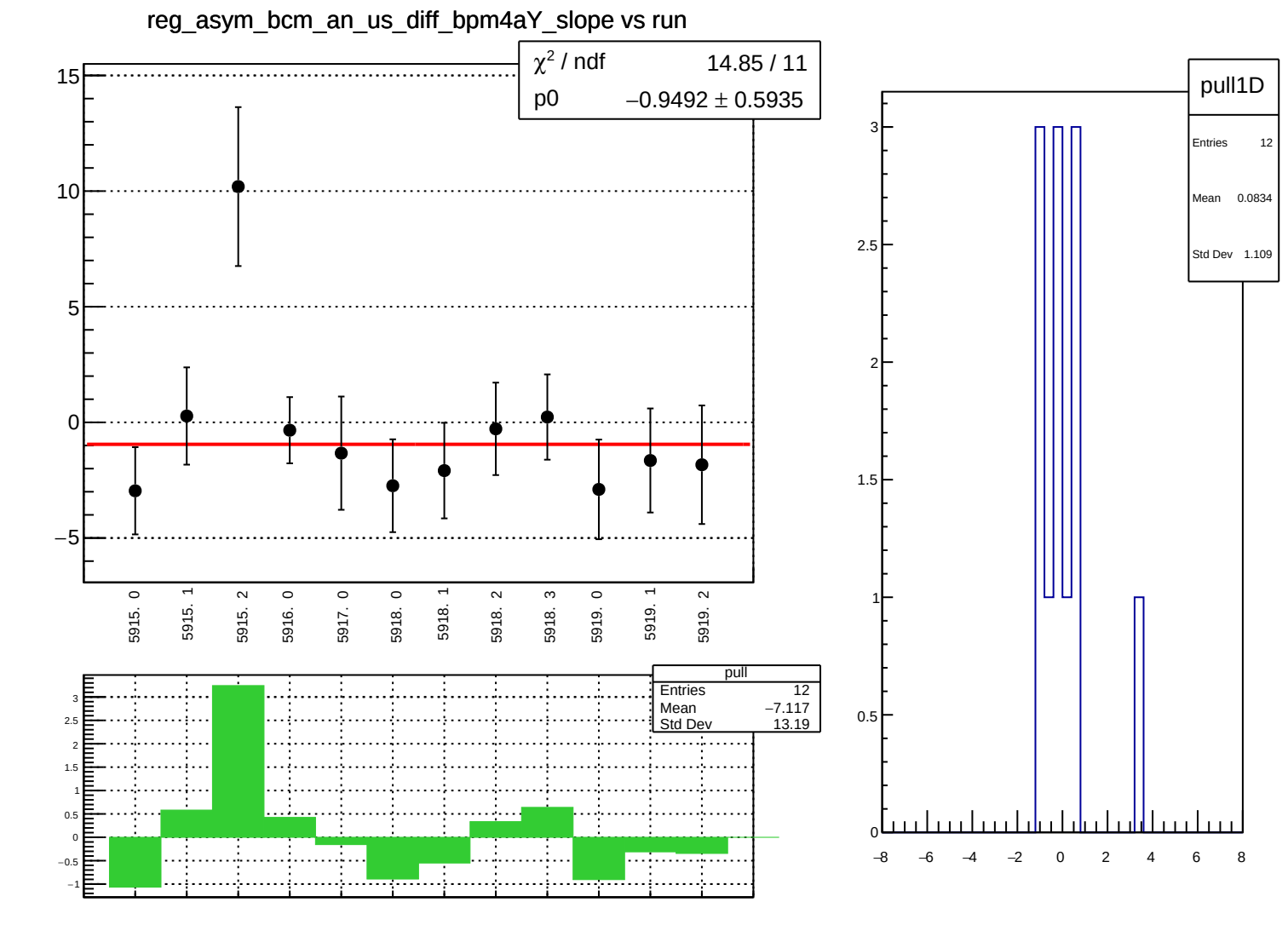

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 14.44 / 11
p0 −0.8646 ± 0.5932
15
10
5
0
−5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −7.633
Std Dev 13.78
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.08073
Std Dev 1.094
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

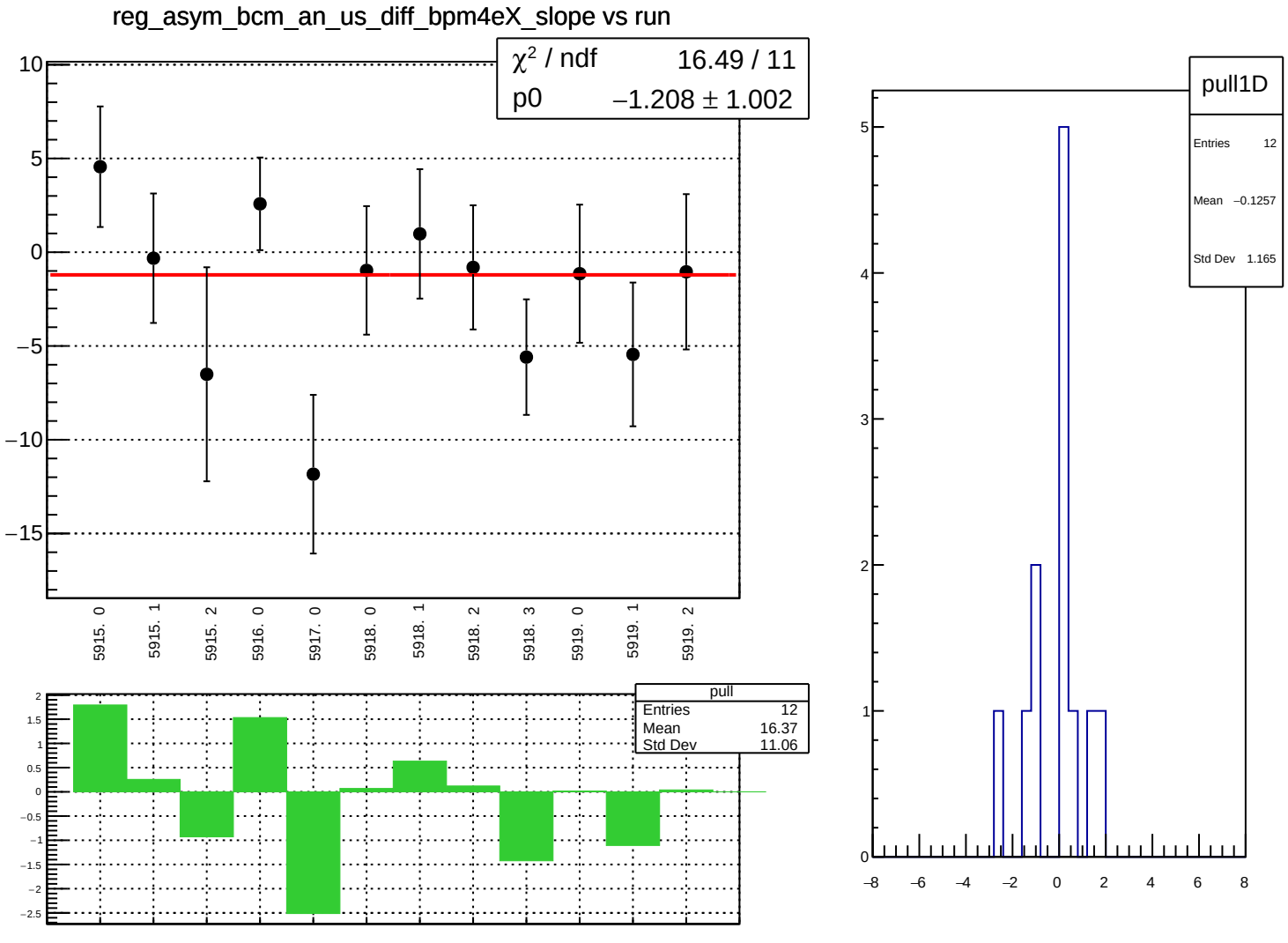

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 15.71 / 11
p0 −1.239 ± 1.001
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.36
Std Dev 11.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean −0.126
Std Dev 1.137
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

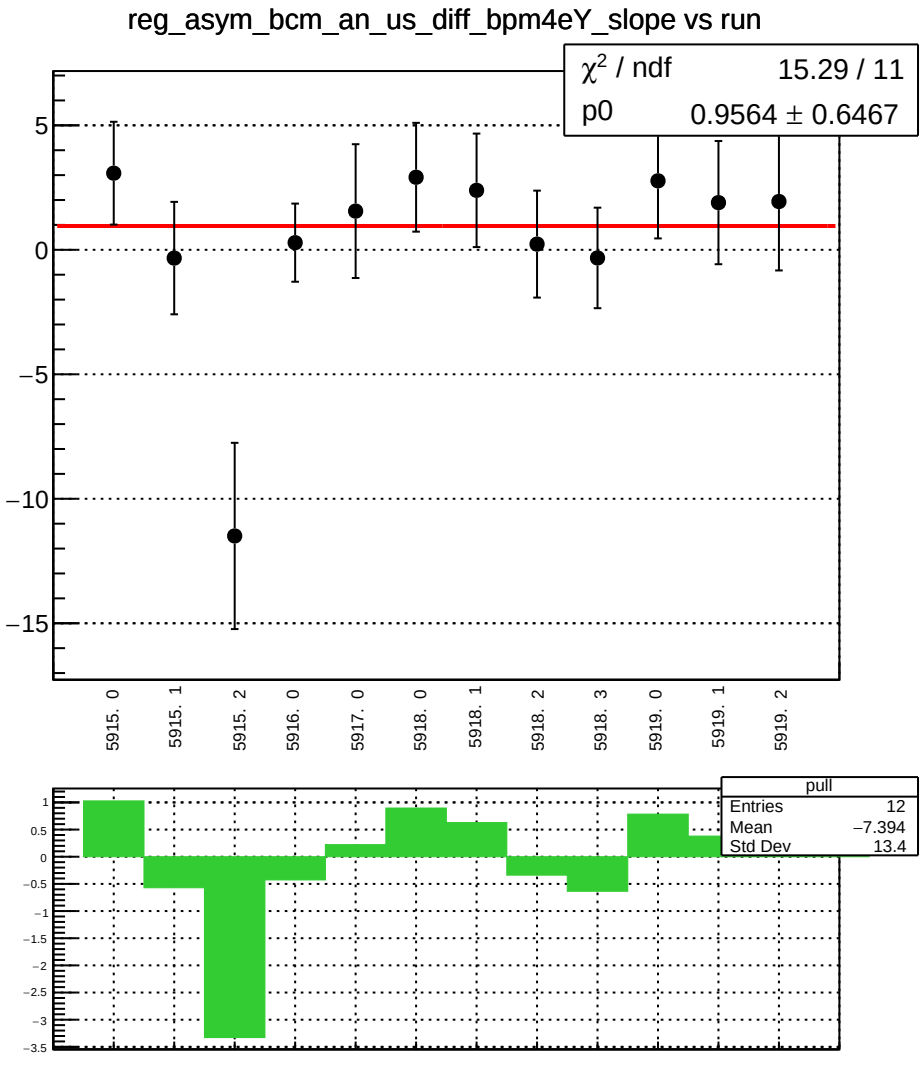

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 14.82 / 11
p0 0.8729 ± 0.6464
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −8.034
Std Dev 14.12
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 12
Mean −0.08125
Std Dev 1.108
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

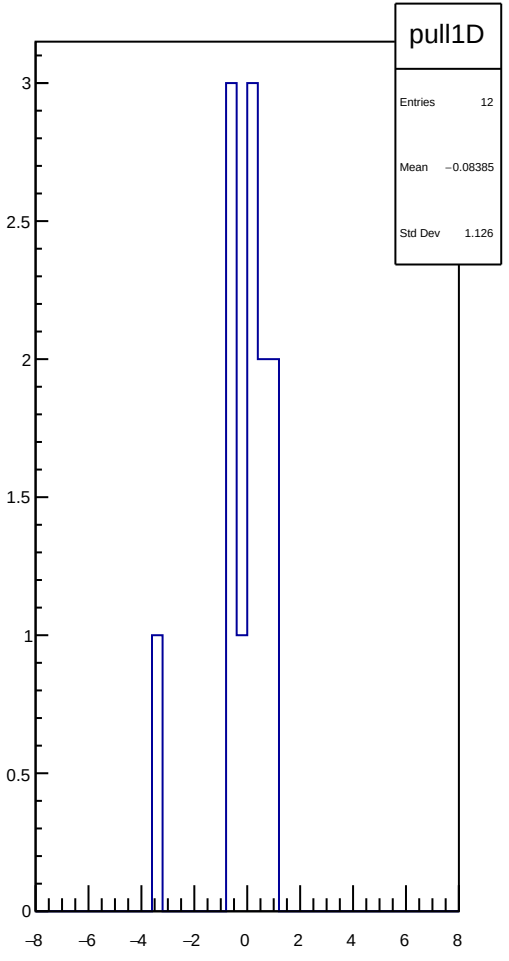

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 21.64 / 11
p0 0.2053 ± 0.04319
1
0.8
0.6
0.4
0.2
0
−0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 12.7
Std Dev 7.302
2
1
0
−1
−2
pull1D
Entries 12
Mean 0.1926
Std Dev 1.329
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

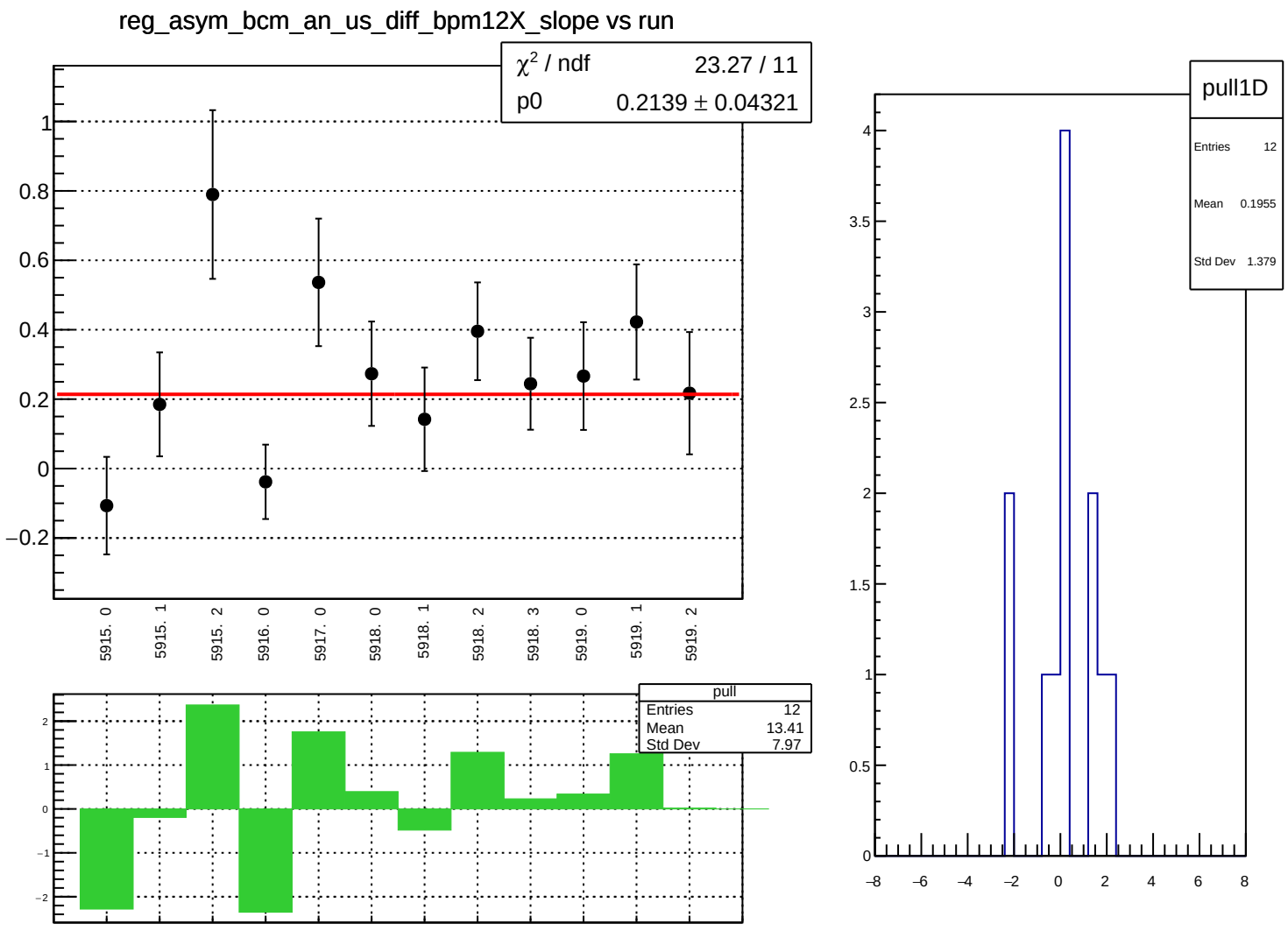

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 16.26 / 11
p0 0.9549 ± 0.8012
14
12
10
8
6
4
2
0
−2
−4
−6
−8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.49
Std Dev 11.11
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.1295
Std Dev 1.157
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

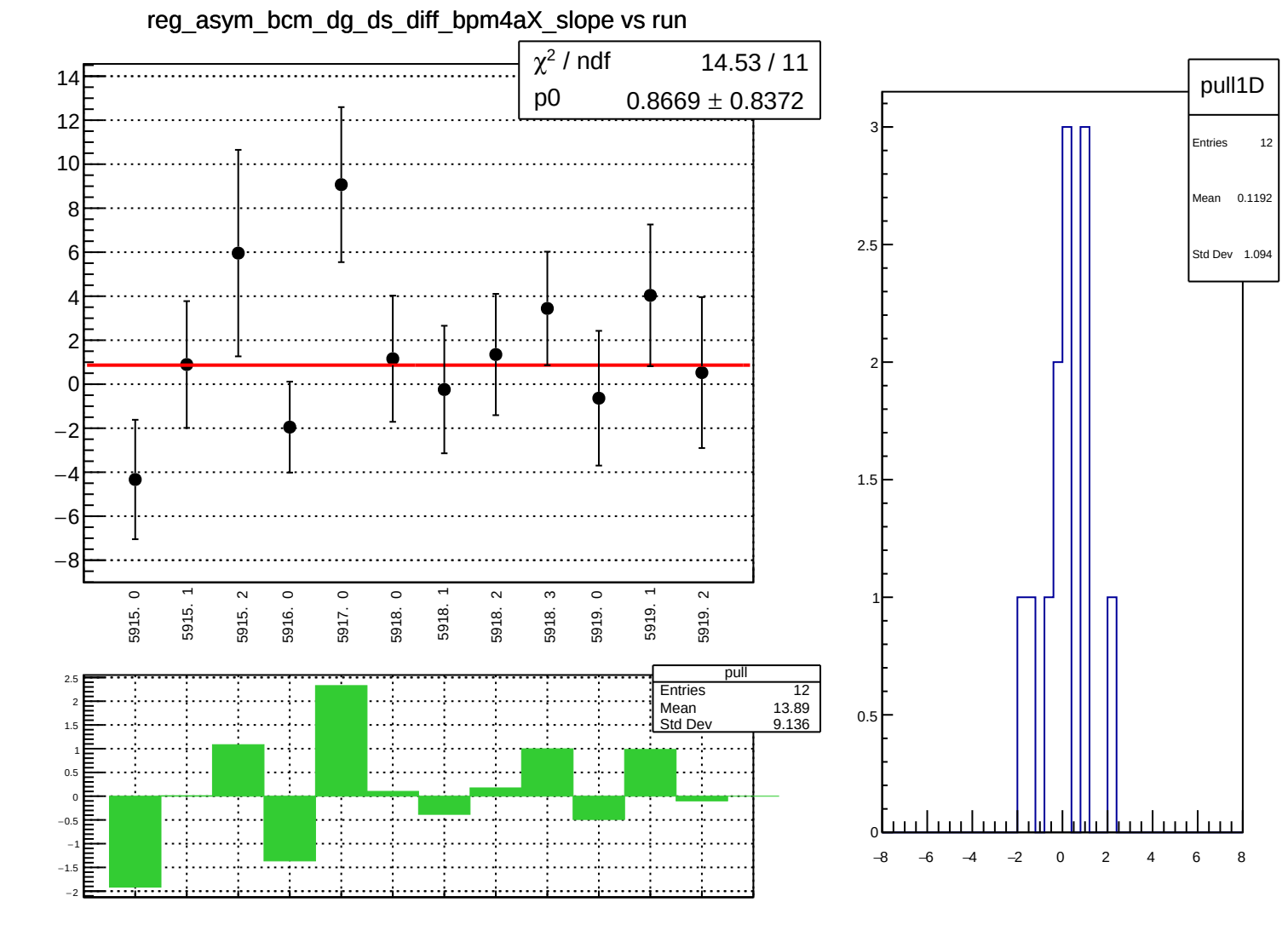

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 14.85 / 11
p0 −0.9492 ± 0.5935
15
10
5
0
−5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −7.117
Std Dev 13.19
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.0834
Std Dev 1.109
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

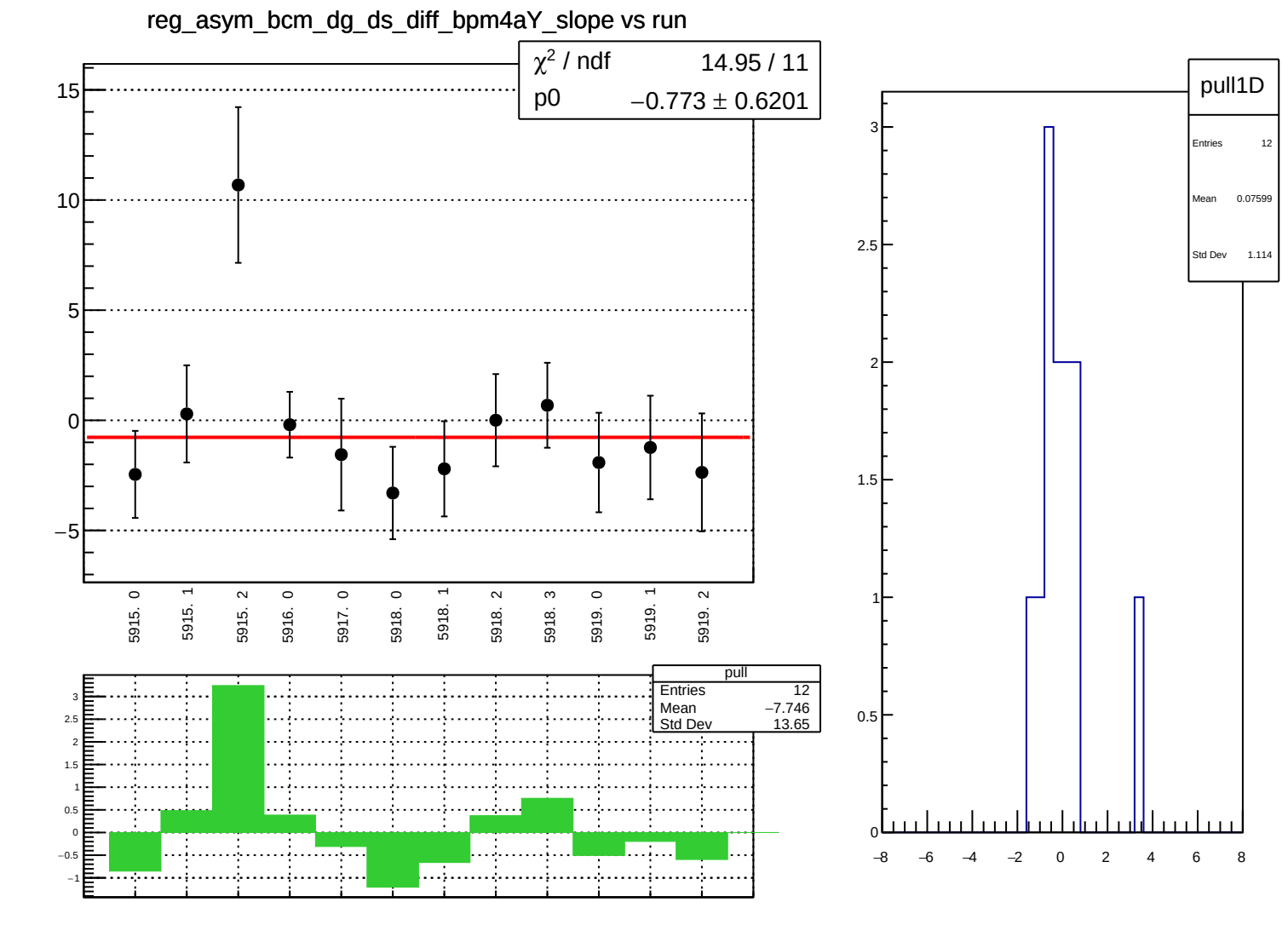

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 16.49 / 11
p0 −1.208 ± 1.002
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 16.37
Std Dev 11.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean −0.1257
Std Dev 1.165
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

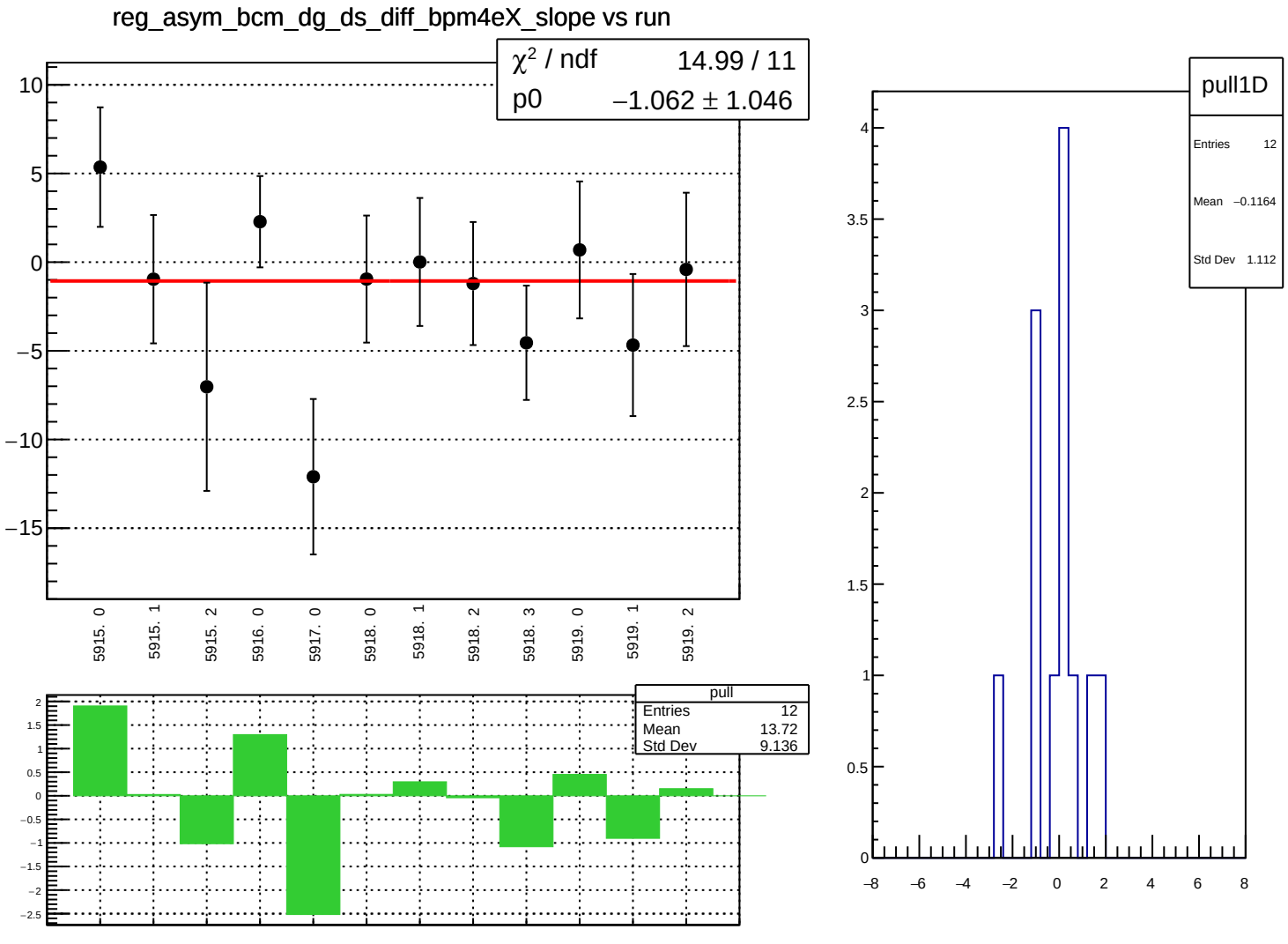

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 15.29 / 11
p0 0.9564 ± 0.6467
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −7.394
Std Dev 13.4
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

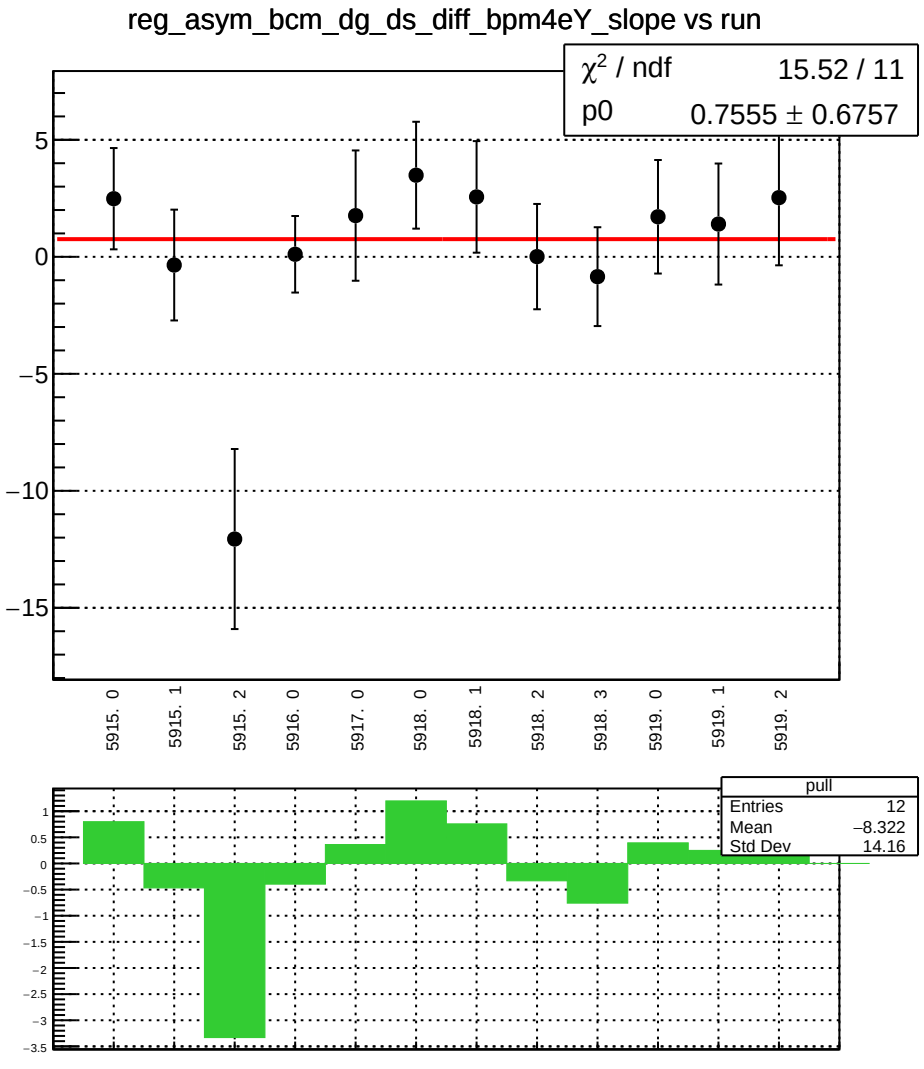

pull1D
Entries 12
Mean −0.08385
Std Dev 1.126
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

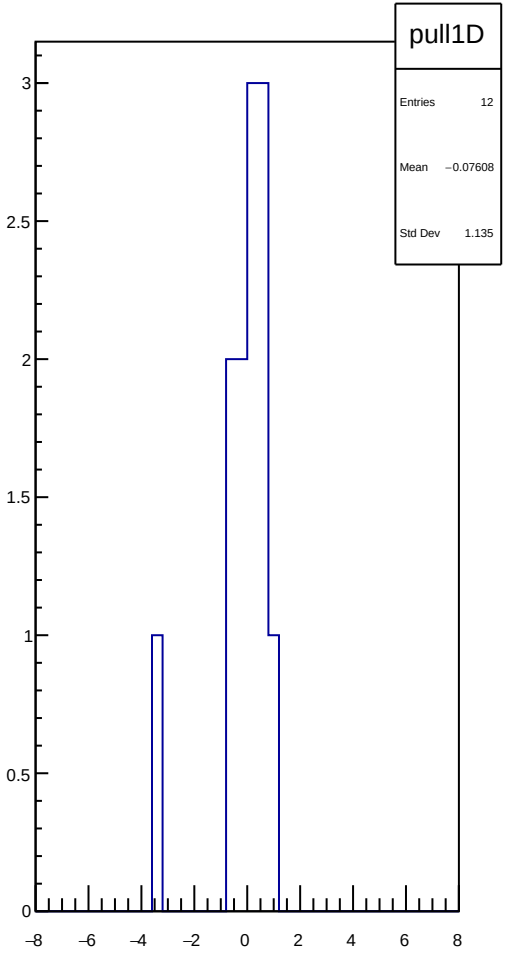

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 23.27 / 11
p0 0.2139 ± 0.04321
1
0.8
0.6
0.4
0.2
0
−0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.41
Std Dev 7.97
2
1
0
−1
−2
pull1D
Entries 12
Mean 0.1955
Std Dev 1.379
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

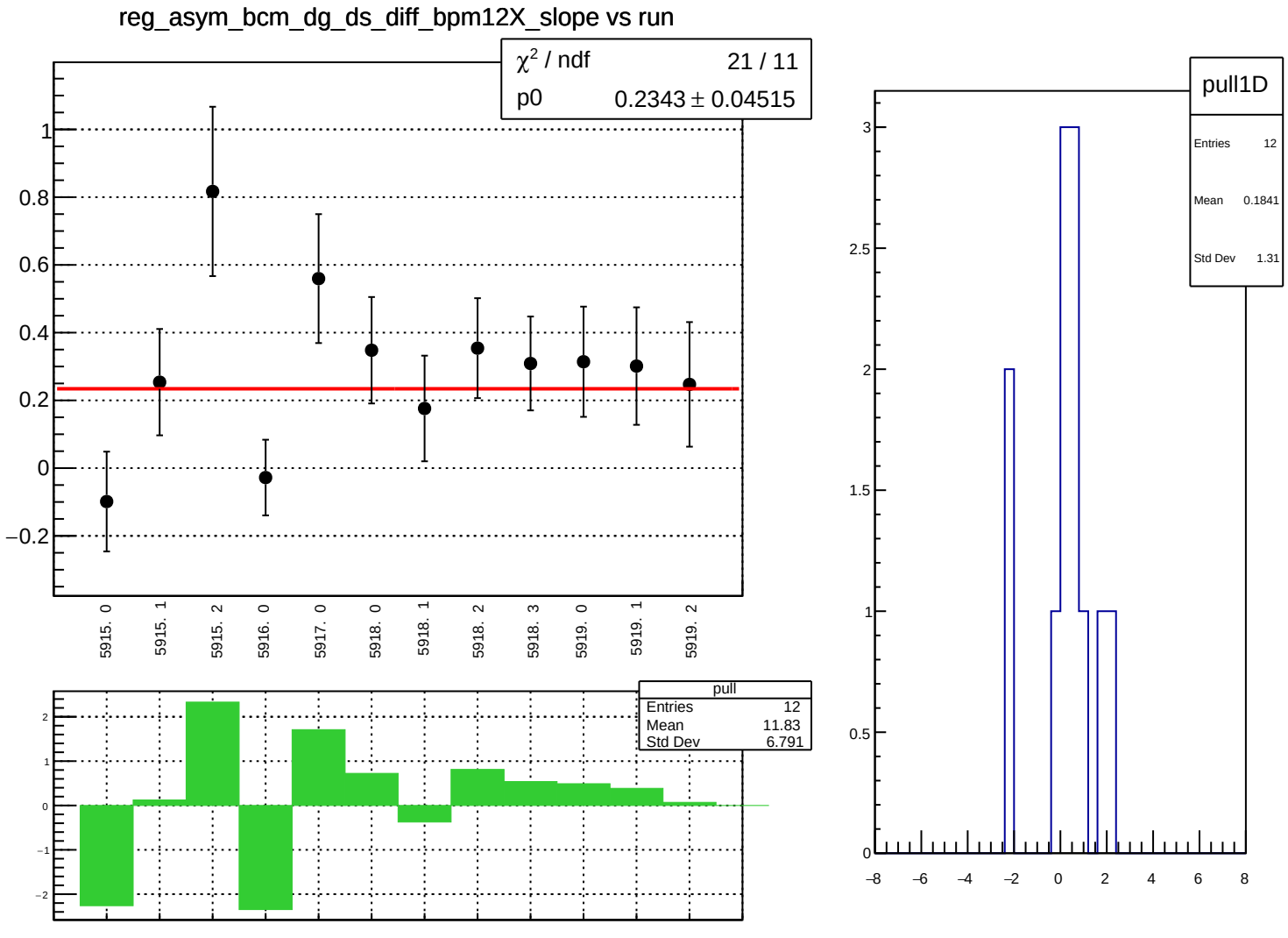

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 14.53 / 11
p0 0.8669 ± 0.8372
14
12
10
8
6
4
2
0
−2
−4
−6
−8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.89
Std Dev 9.136
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.1192
Std Dev 1.094
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

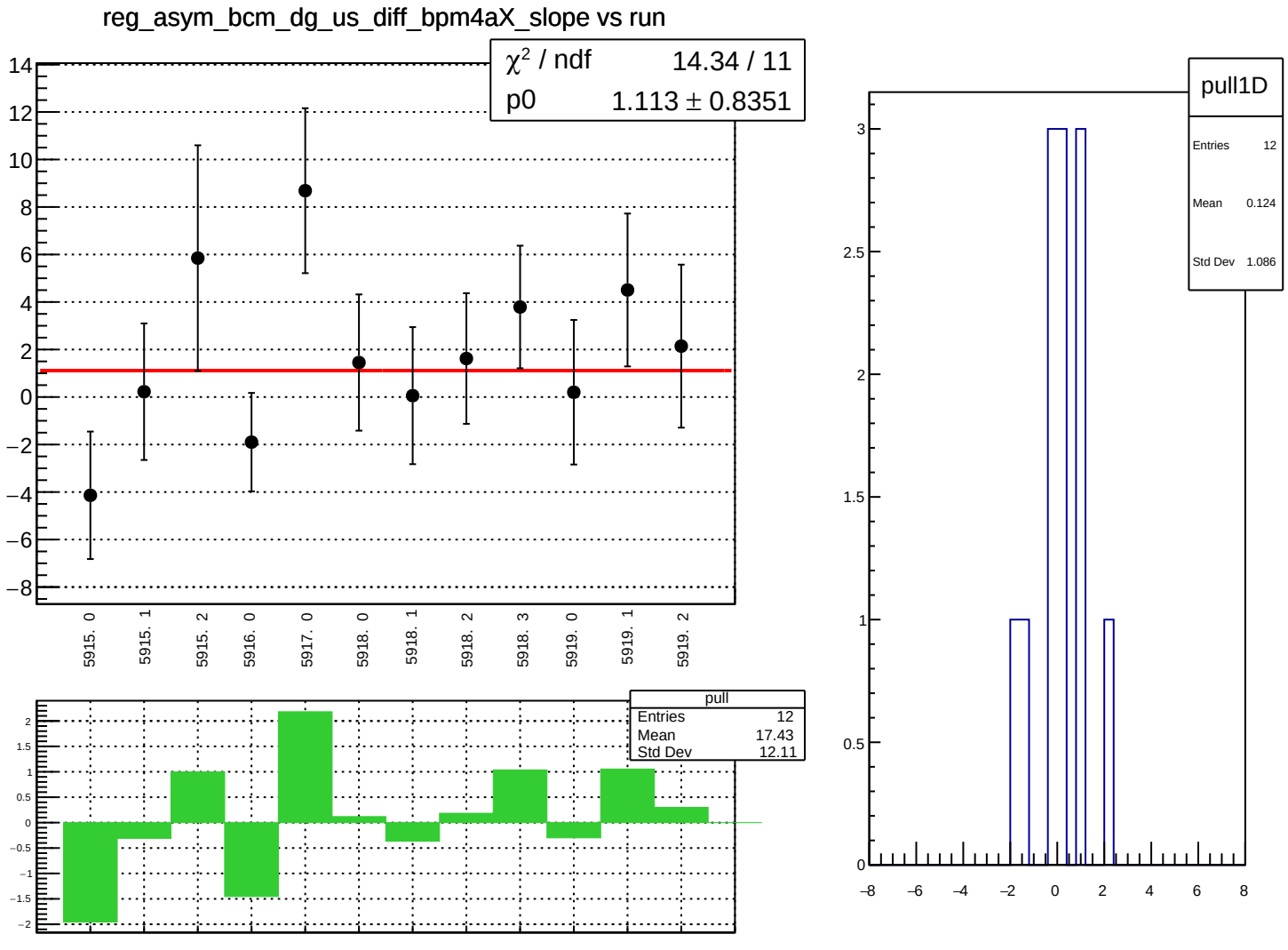

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 14.95 / 11
p0 −0.773 ± 0.6201
15
10
5
0
−5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −7.746
Std Dev 13.65
pull1D
Entries 12
Mean 0.07599
Std Dev 1.114

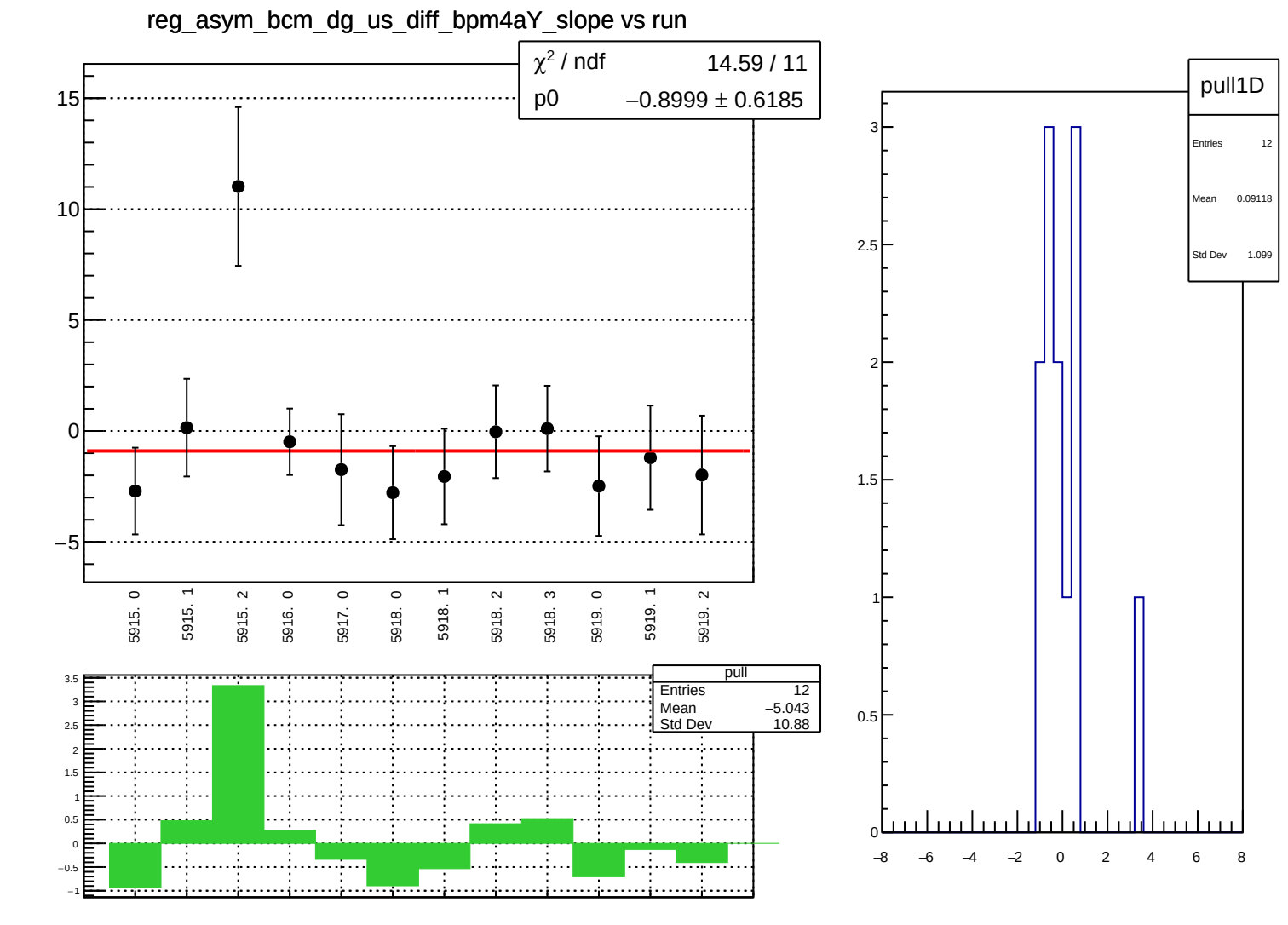

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 14.99 / 11
p0 −1.062 ± 1.046
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 13.72
Std Dev 9.136
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean −0.1164
Std Dev 1.112
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

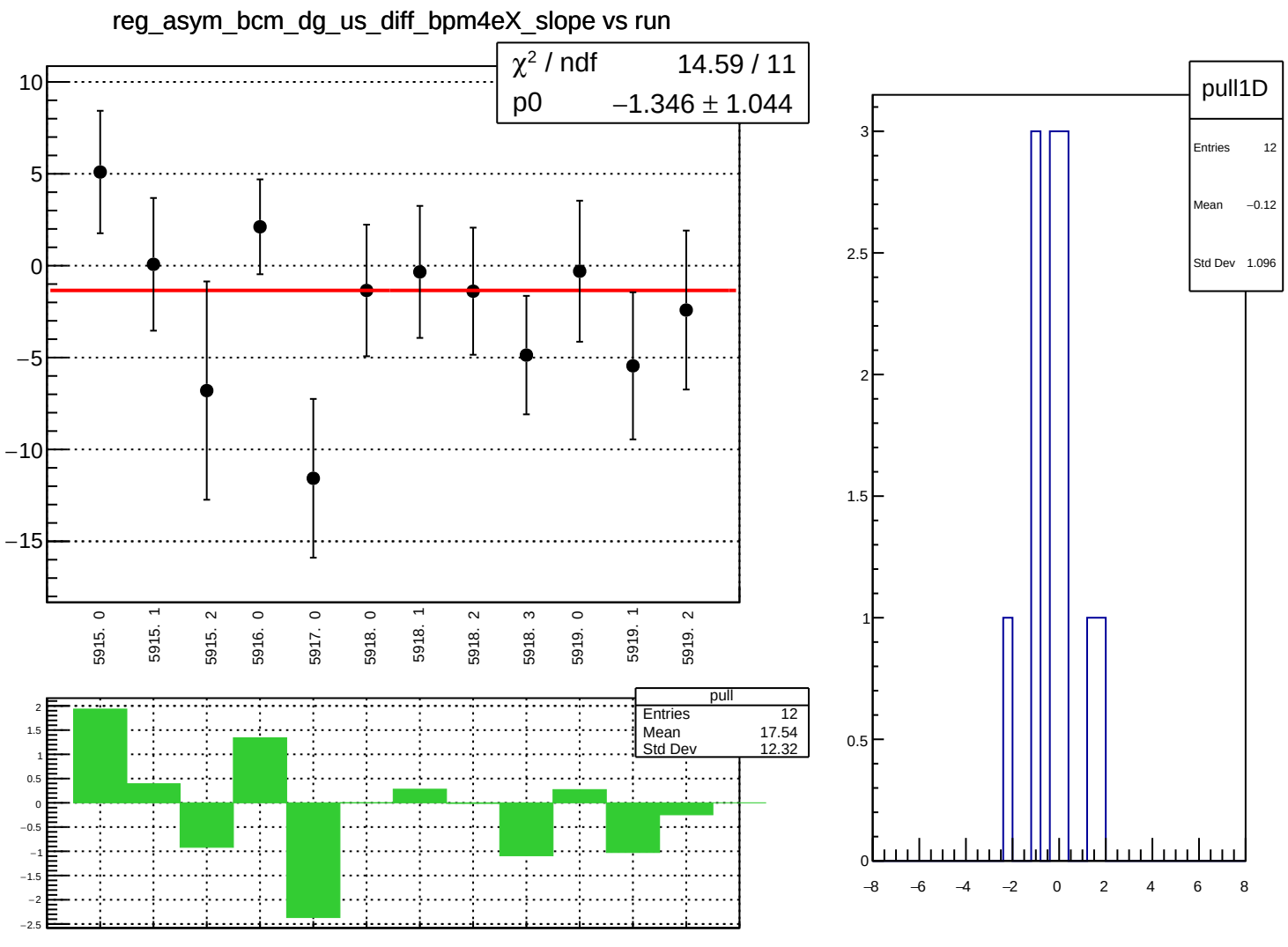

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 15.52 / 11
p0 0.7555 ± 0.6757
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −8.322
Std Dev 14.16
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

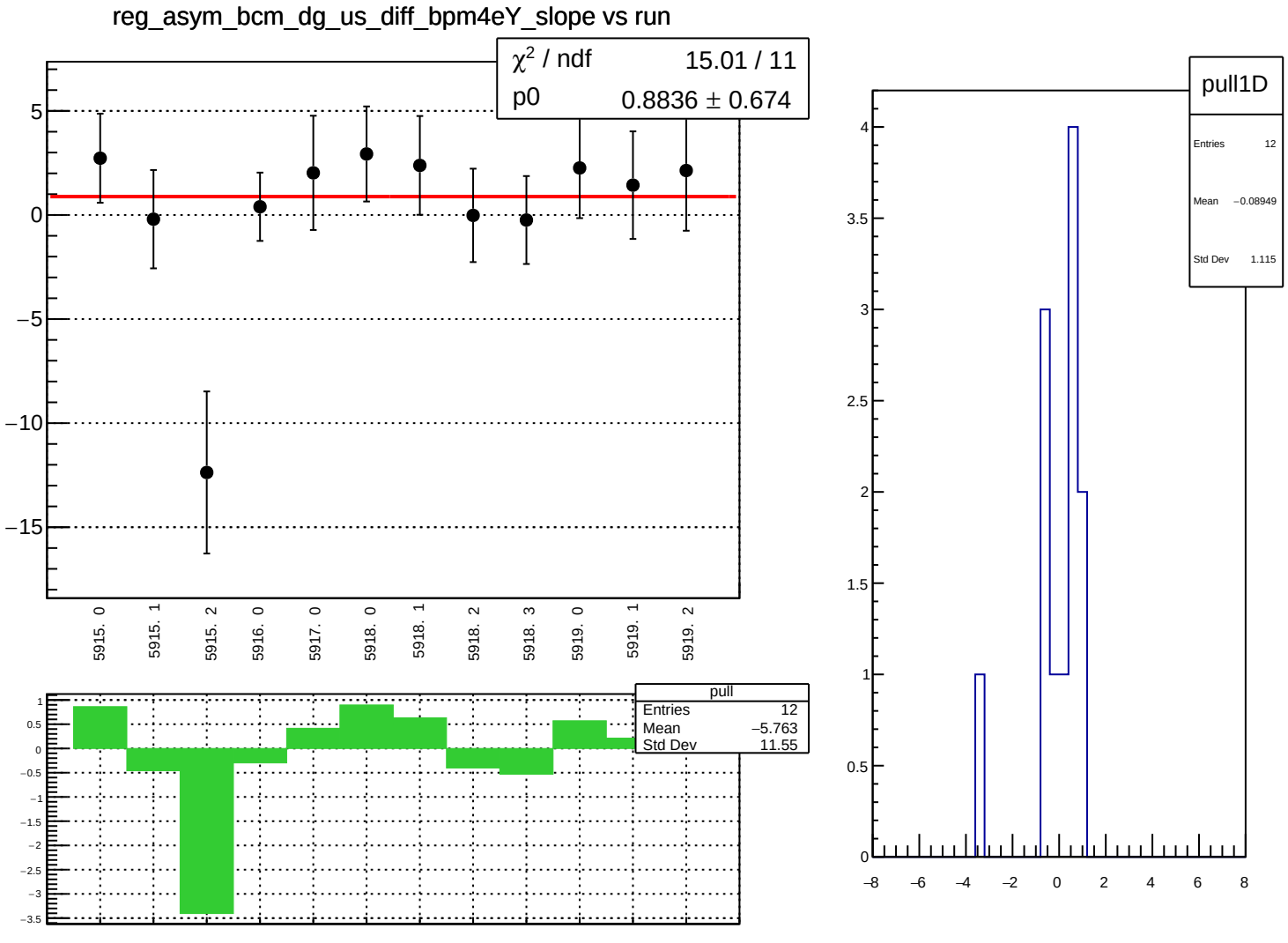

pull1D
Entries 12
Mean −0.07608
Std Dev 1.135
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

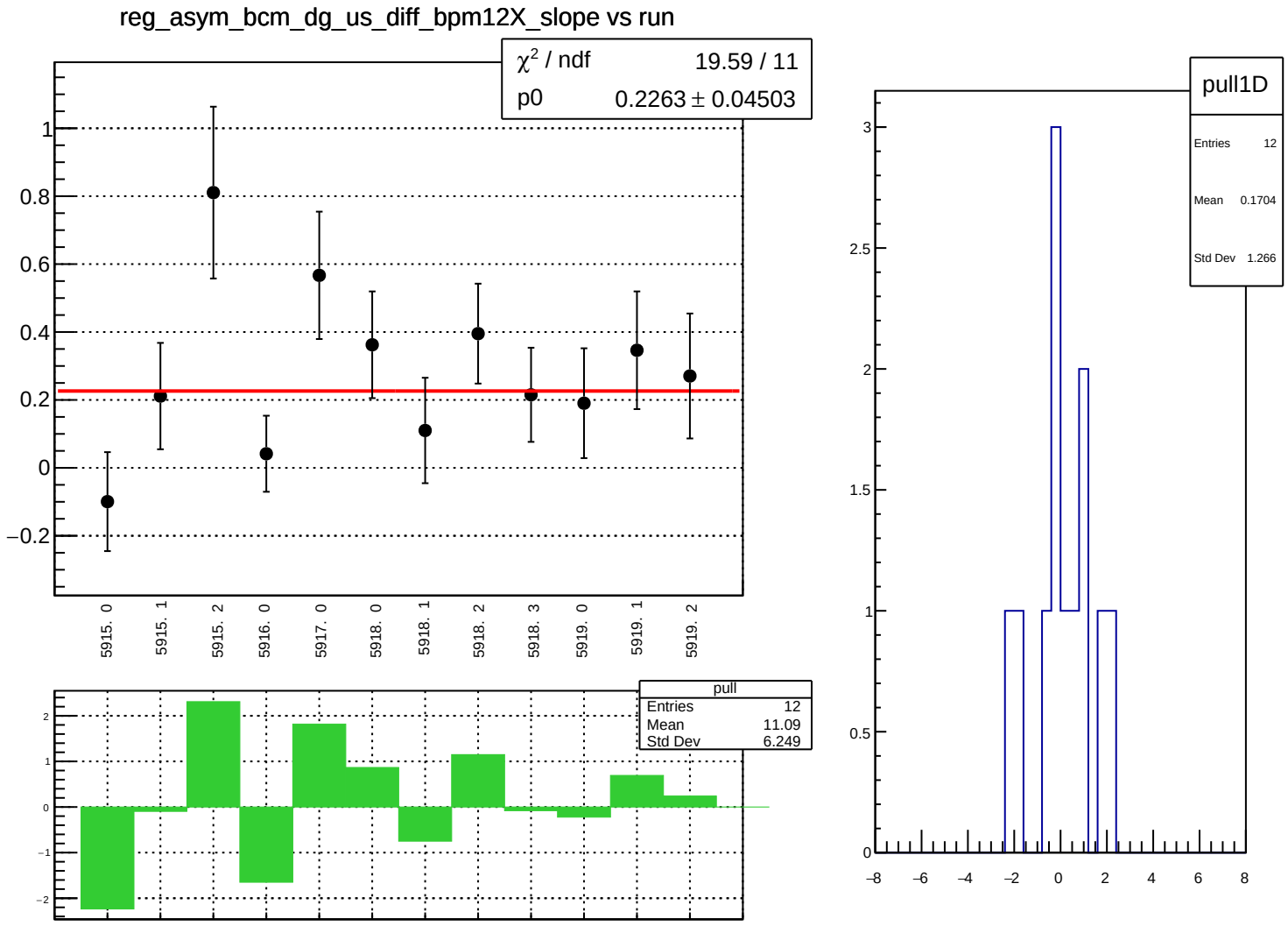

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 21 / 11
p0 0.2343 ± 0.04515
1
0.8
0.6
0.4
0.2
0
−0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.83
Std Dev 6.791
2
1
0
−1
−2
pull1D
Entries 12
Mean 0.1841
Std Dev 1.31
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 14.34 / 11
p0 1.113 ± 0.8351
14
12
10
8
6
4
2
0
−2
−4
−6
−8
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 17.43
Std Dev 12.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 12
Mean 0.124
Std Dev 1.086
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 14.59 / 11
p0 −0.8999 ± 0.6185
15
10
5
0
−5
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −5.043
Std Dev 10.88
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 12
Mean 0.09118
Std Dev 1.099
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 14.59 / 11
p0 −1.346 ± 1.044
10
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 17.54
Std Dev 12.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 12
Mean −0.12
Std Dev 1.096
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 15.01 / 11
p0 0.8836 ± 0.674
5
0
−5
−10
−15
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean −5.763
Std Dev 11.55
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 12
Mean −0.08949
Std Dev 1.115
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 19.59 / 11
p0 0.2263 ± 0.04503
1
0.8
0.6
0.4
0.2
0
−0.2
5915. 0
5915. 1
5915. 2
5916. 0
5917. 0
5918. 0
5918. 1
5918. 2
5918. 3
5919. 0
5919. 1
5919. 2
pull
Entries 12
Mean 11.09
Std Dev 6.249
2
1
0
−1
−2
pull1D
Entries 12
Mean 0.1704
Std Dev 1.266
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8