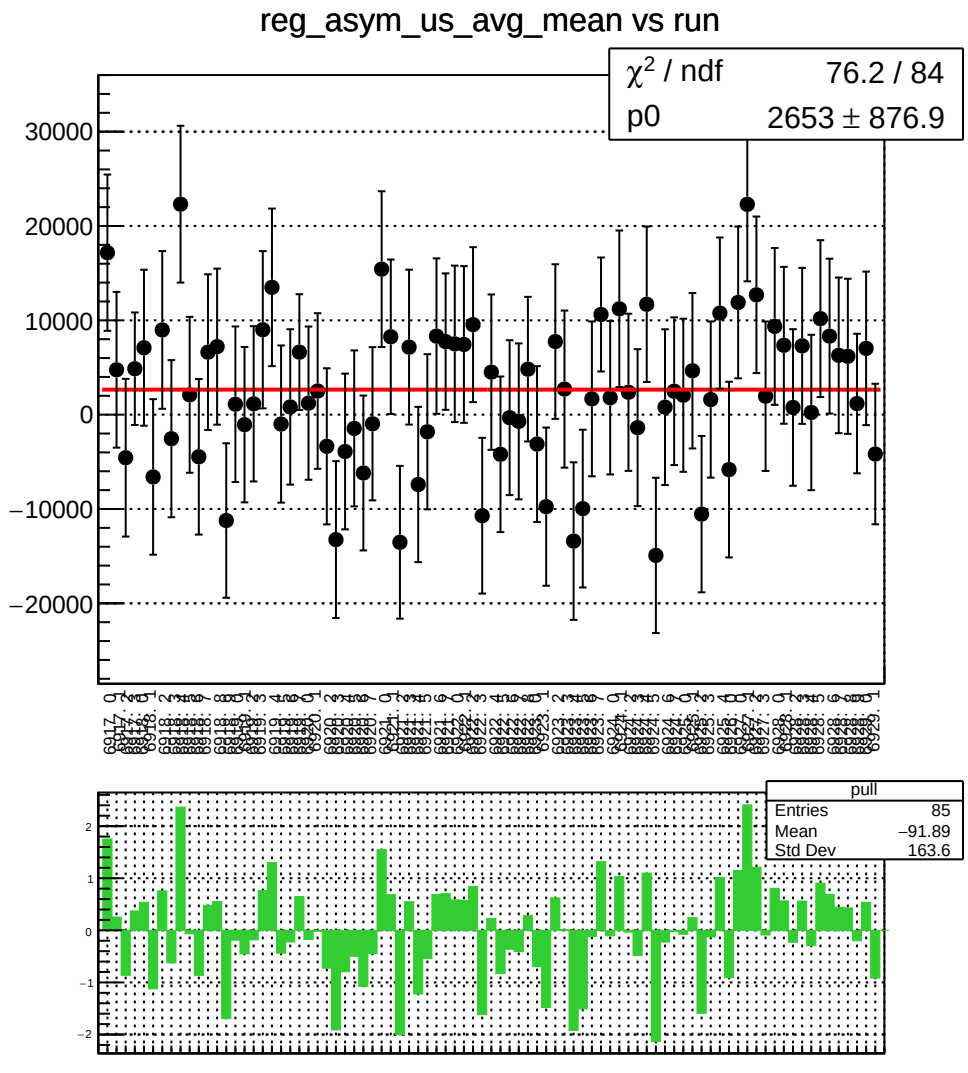
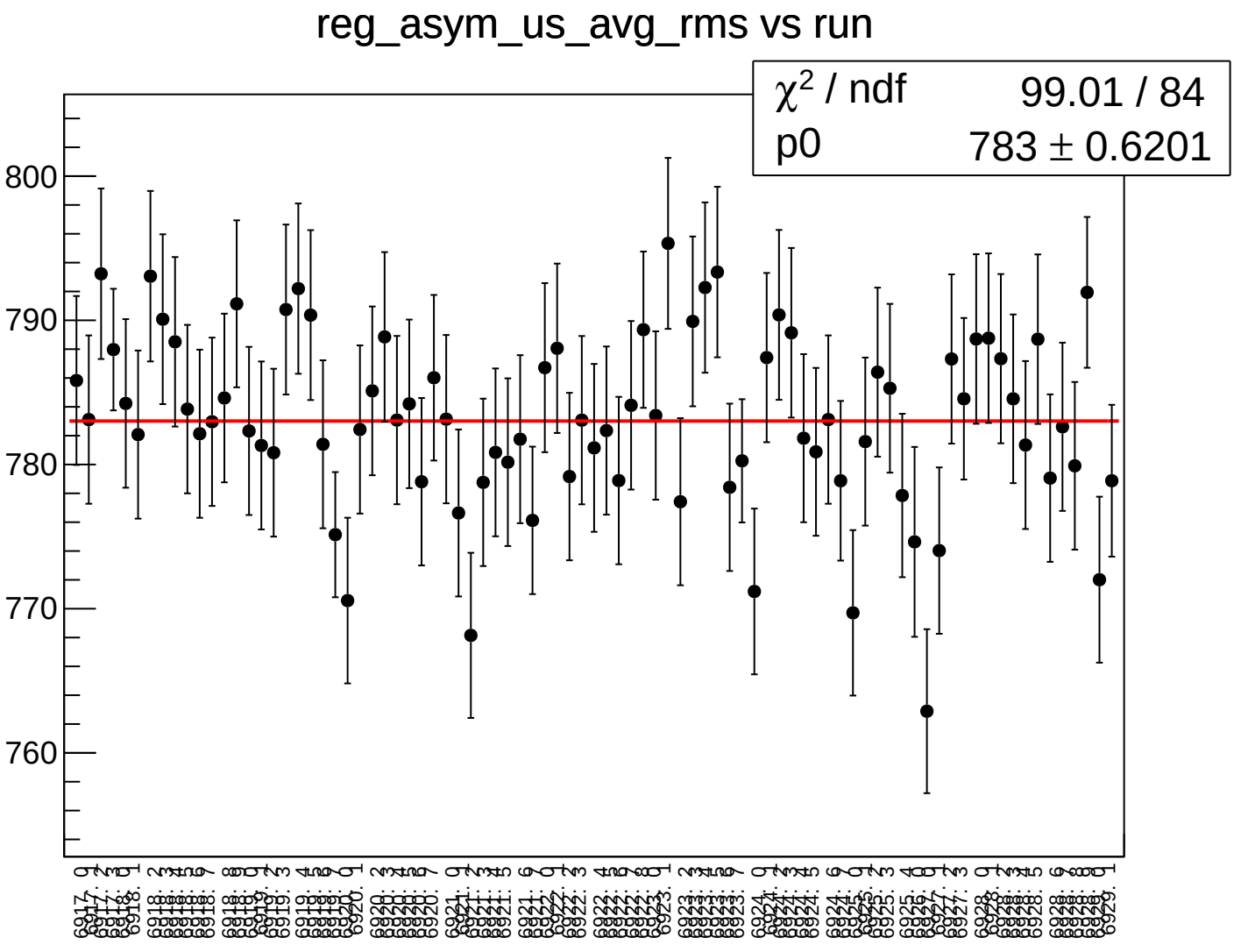
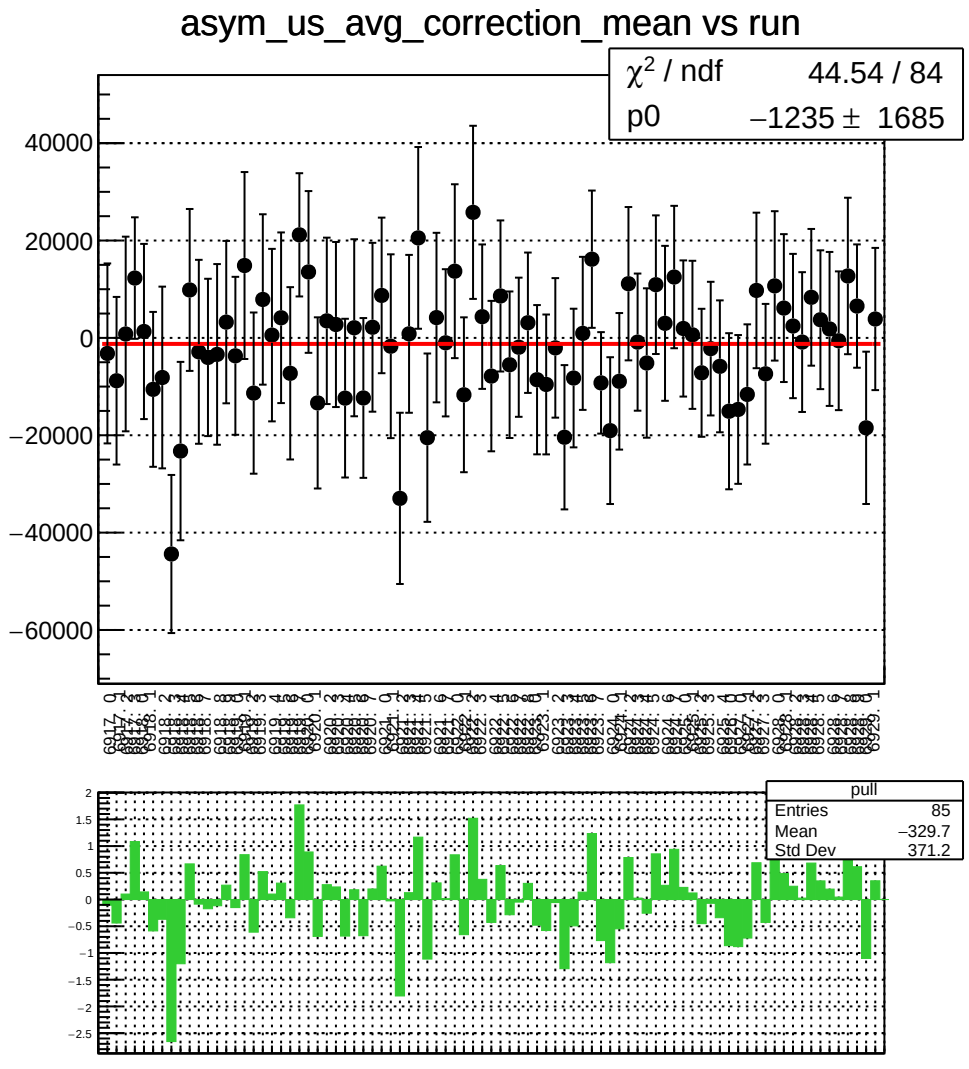
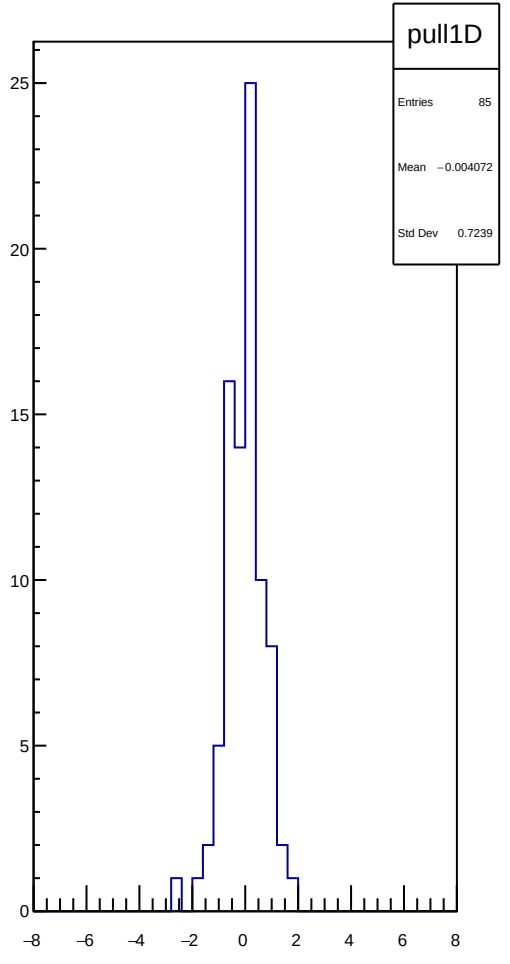
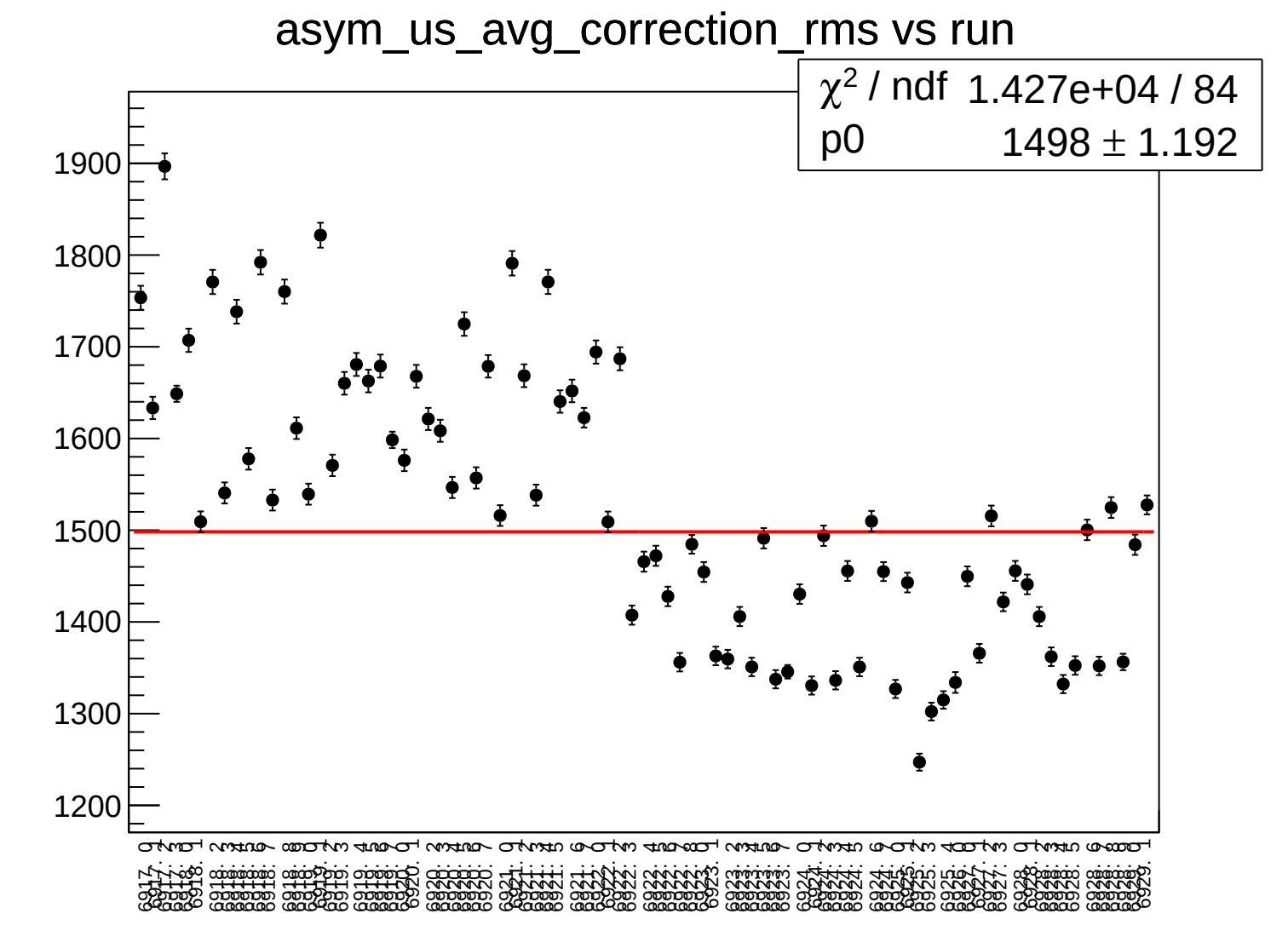
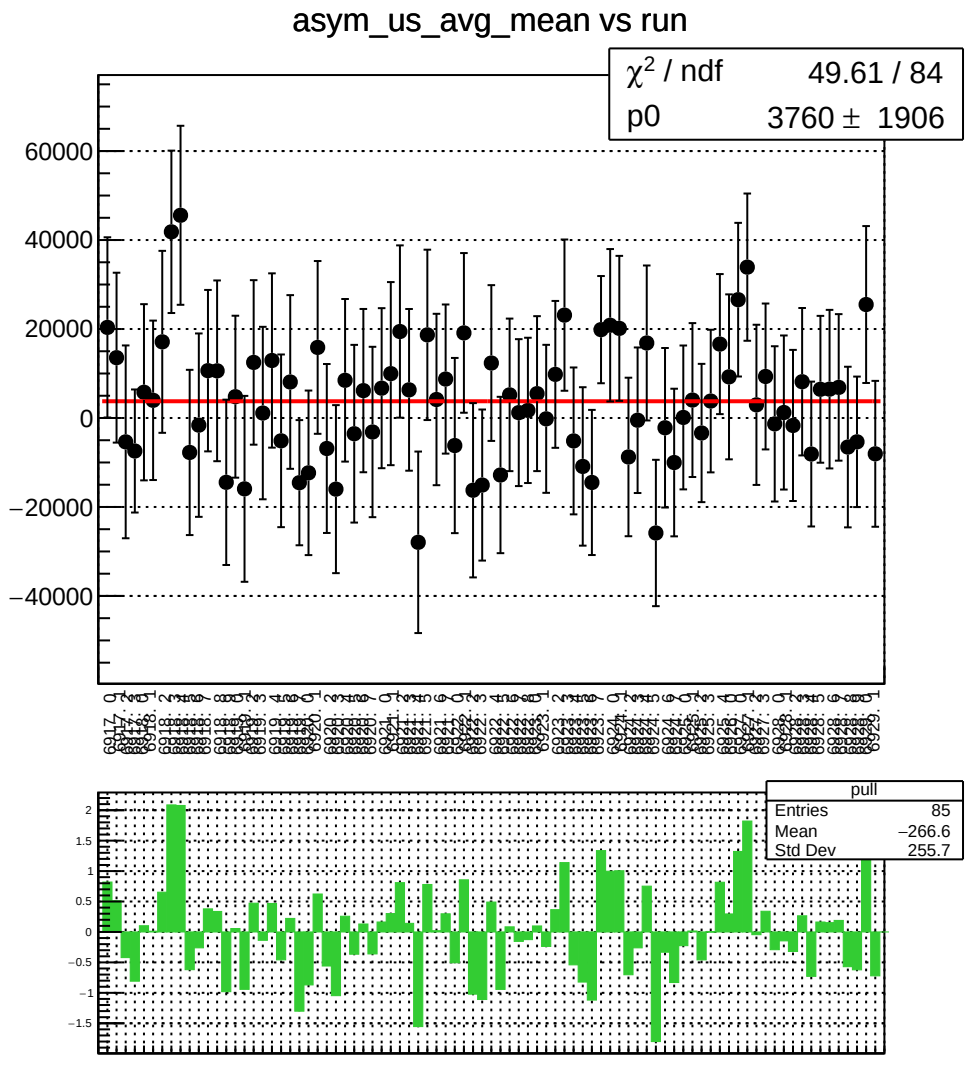

reg_asym_us_avg_mean vs run
χ² / ndf 76.2 / 84
p0 2653 ± 876.9
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −91.89
Std Dev 163.6
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01177
Std Dev 0.9468
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

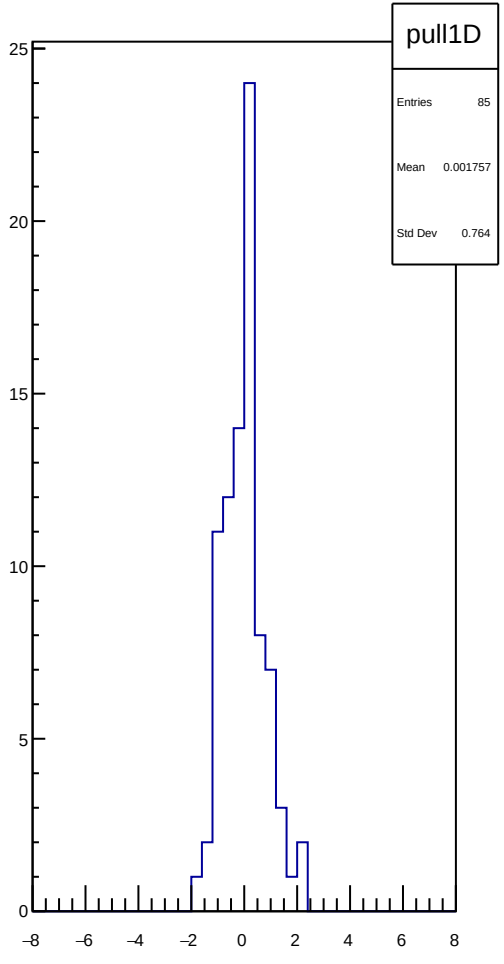

reg_asym_us_avg_rms vs run
χ^2 / ndf 99.01 / 84
p0 783 ± 0.6201
800
790
780
770
760

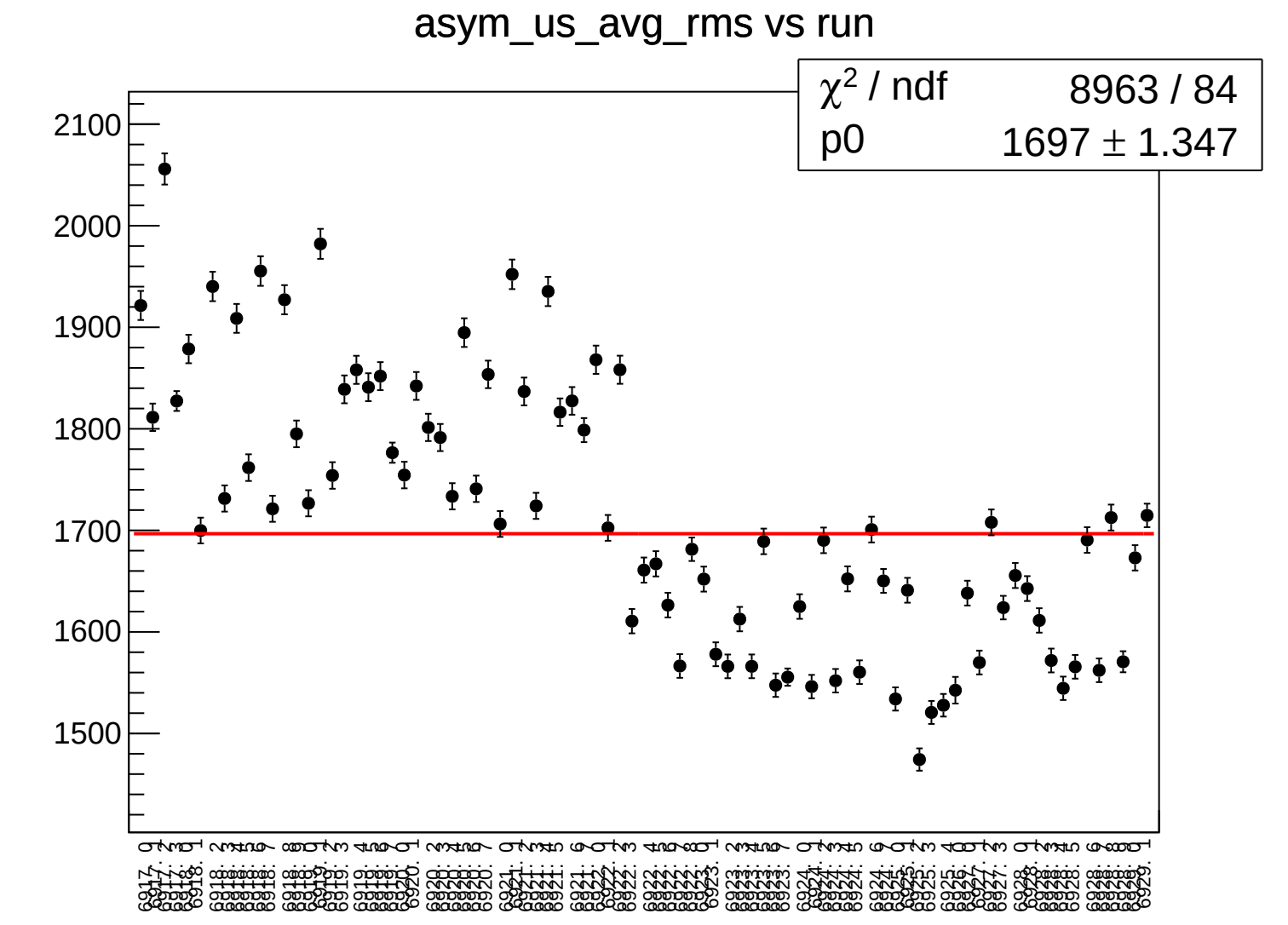

asym_us_avg_correction_mean vs run
χ² / ndf 44.54 / 84
p0 −1235 ± 1685
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −329.7
Std Dev 371.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

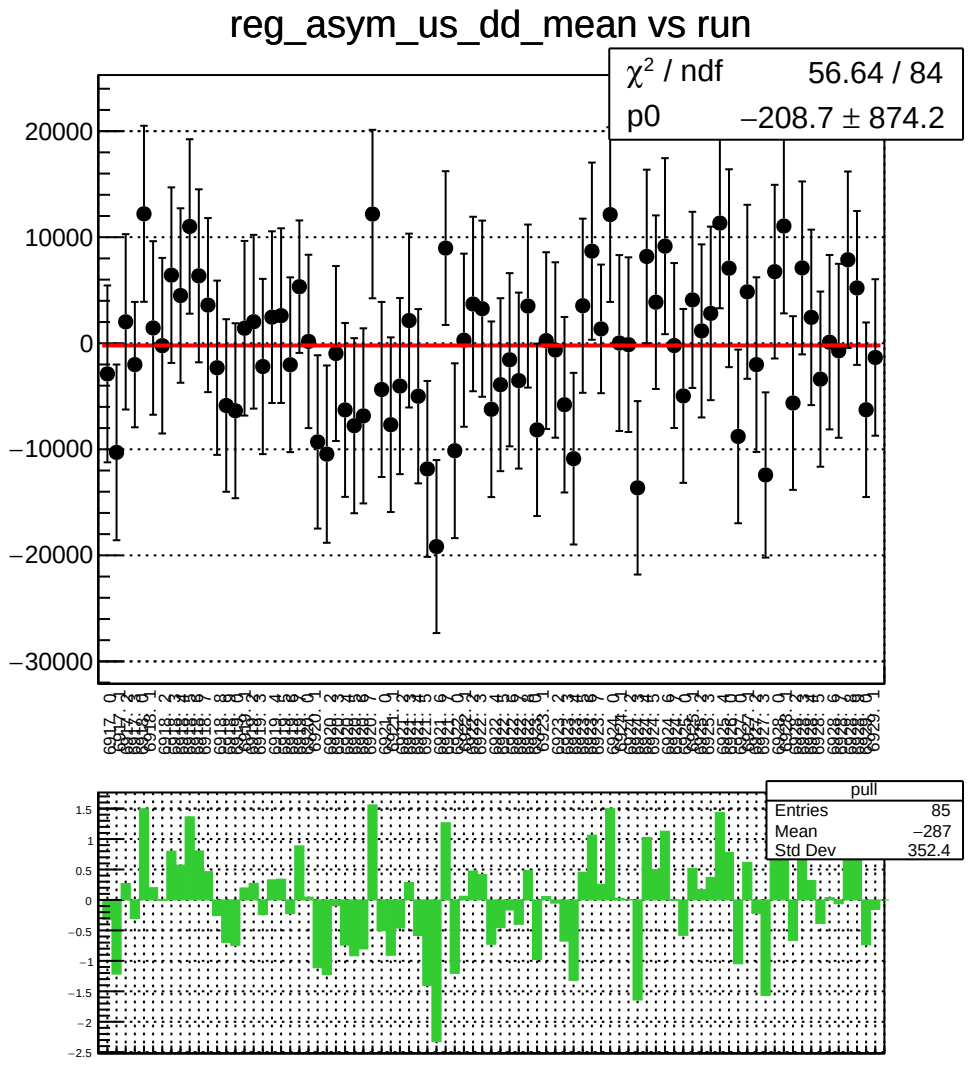

pull1D
Entries 85
Mean −0.004072
Std Dev 0.7239
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

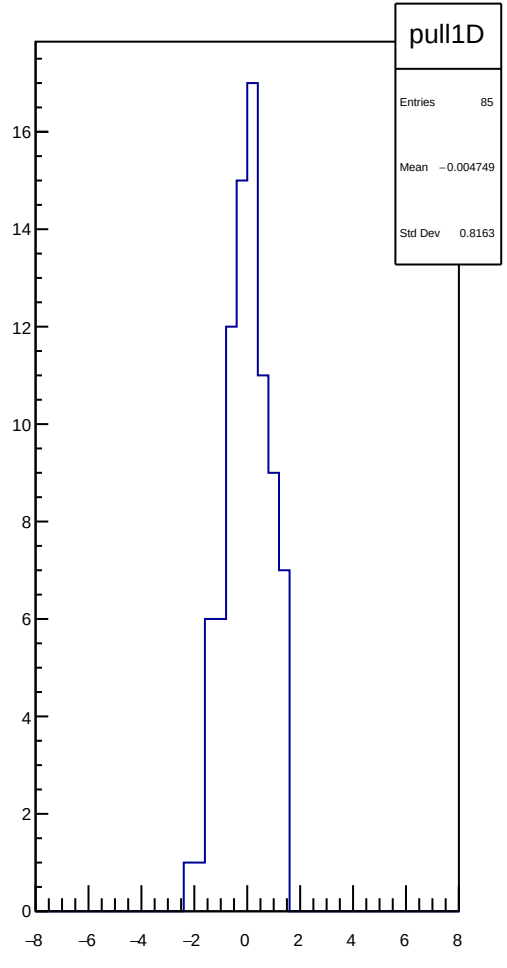

asym_us_avg_correction_rms vs run
χ² / ndf 1.427e+04 / 84
p0 1498 ± 1.192
1900
1800
1700
1600
1500
1400
1300
1200

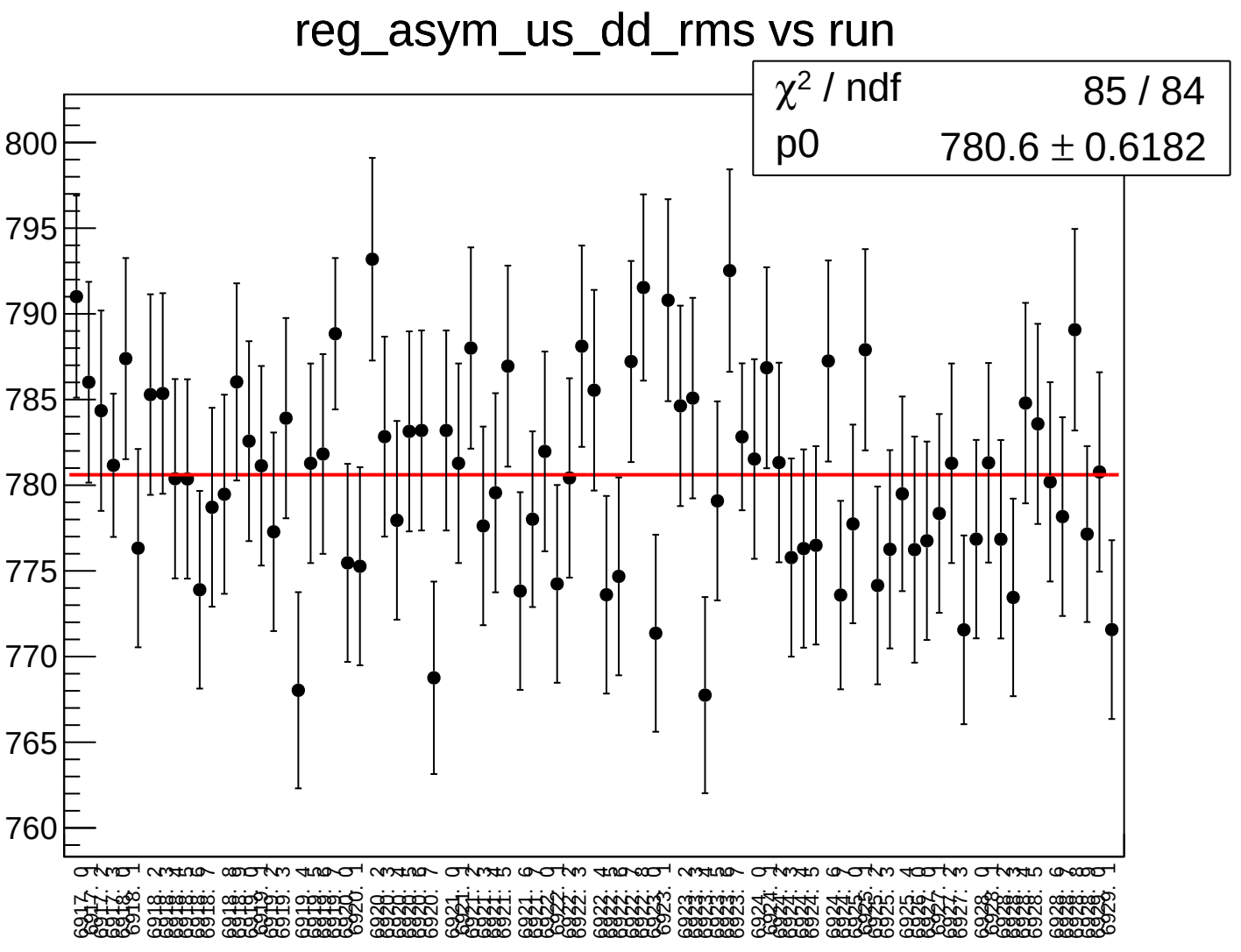

asym_us_avg_mean vs run
χ² / ndf 49.61 / 84
p0 3760 ± 1906
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −266.6
Std Dev 255.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

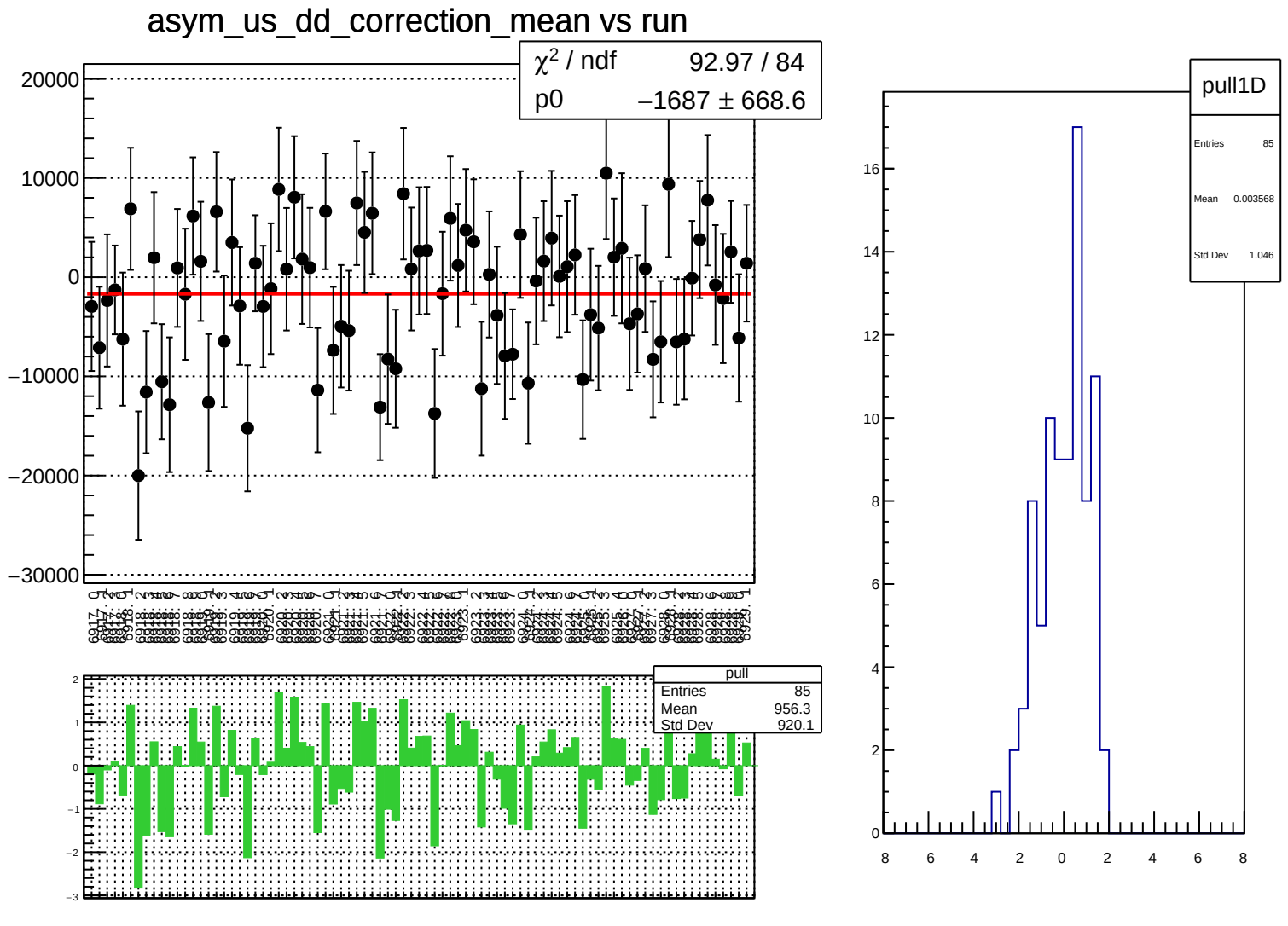

pull1D
Entries 85
Mean 0.001757
Std Dev 0.764
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

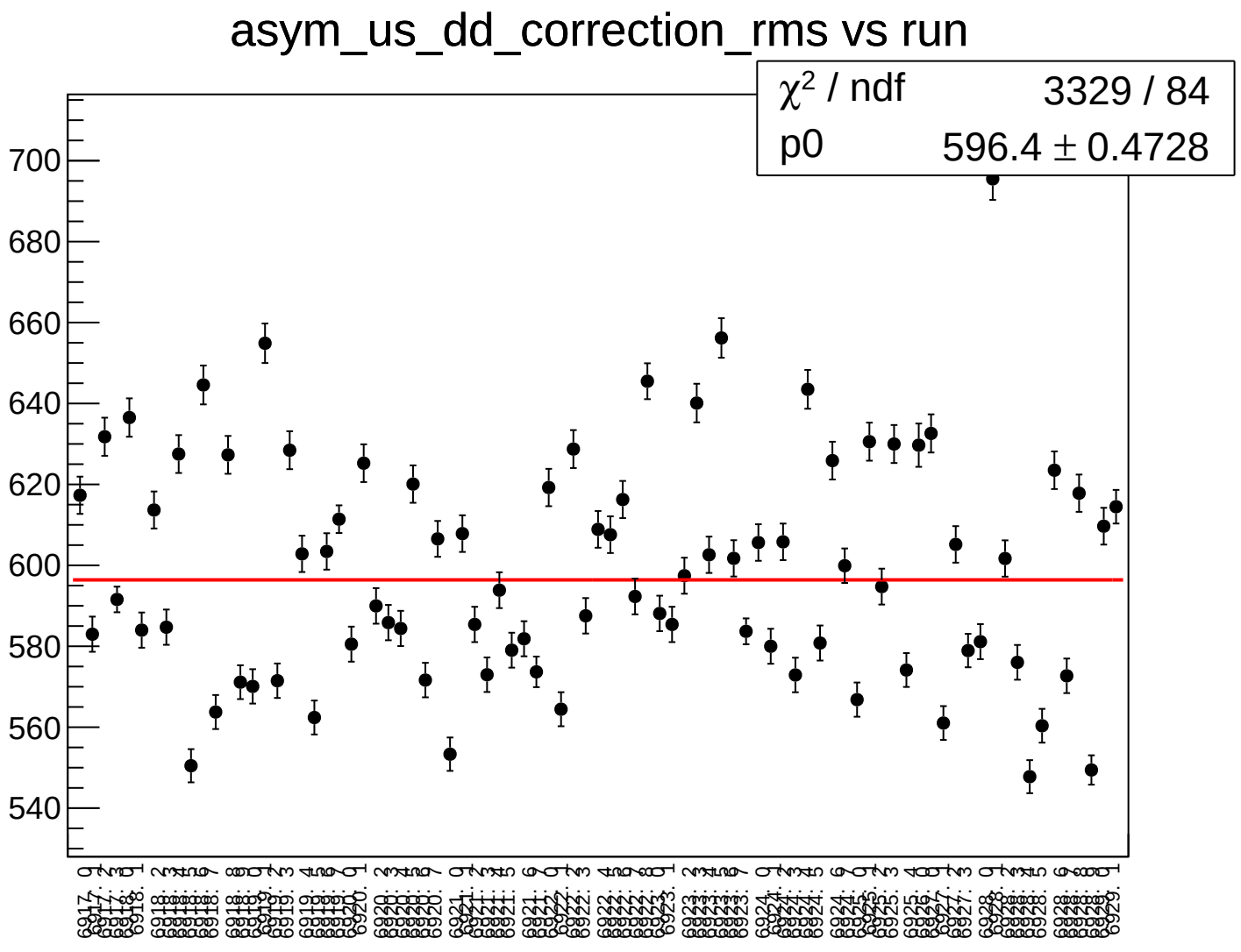

asym_us_avg_rms vs run
χ^2 / ndf 8963 / 84
p0 1697 ± 1.347
2100
2000
1900
1800
1700
1600
1500

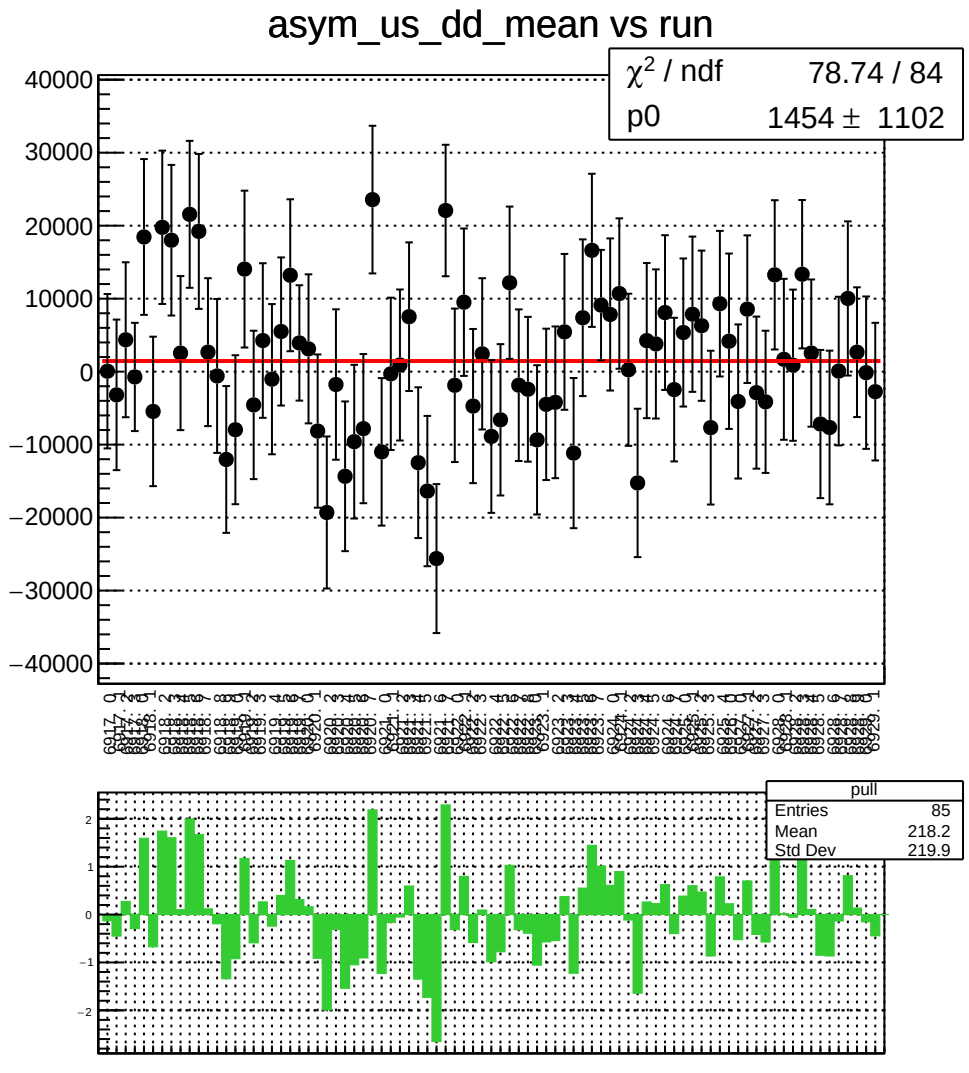

reg_asym_us_dd_mean vs run
χ² / ndf 56.64 / 84
p0 −208.7 ± 874.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −287
Std Dev 352.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

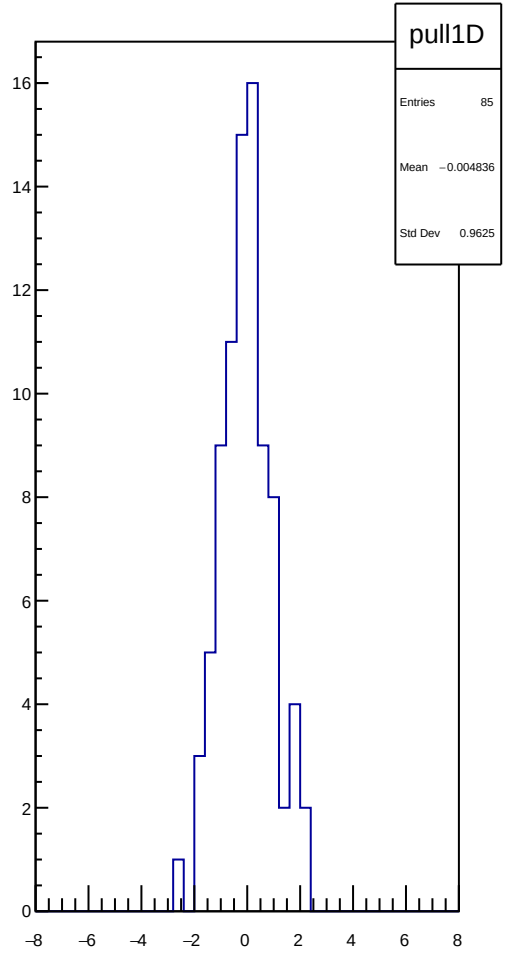

pull1D
Entries 85
Mean −0.004749
Std Dev 0.8163
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

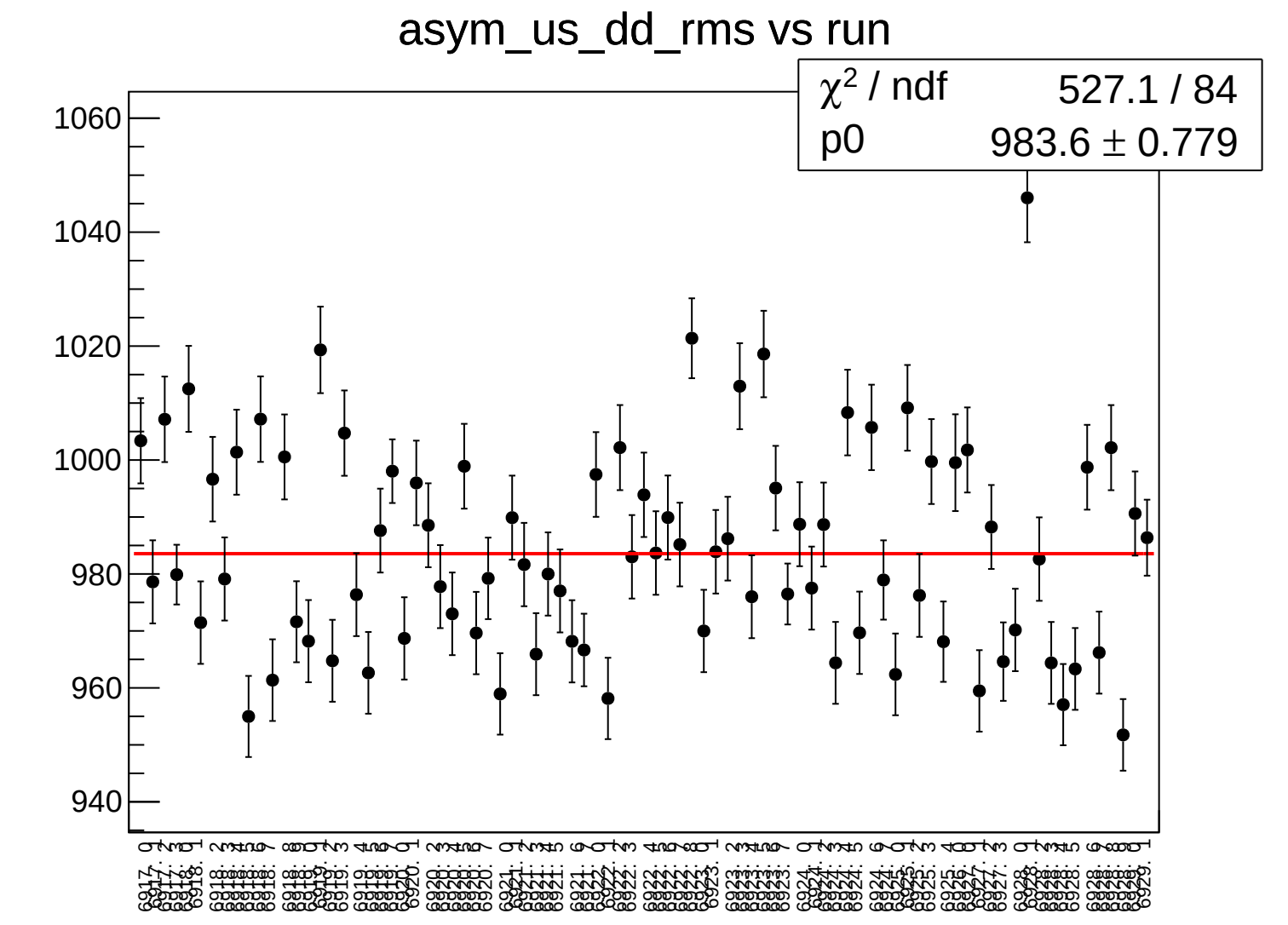

reg_asym_us_dd_rms vs run
χ² / ndf 85 / 84
p0 780.6 ± 0.6182
800
795
790
785
780
775
770
765
760

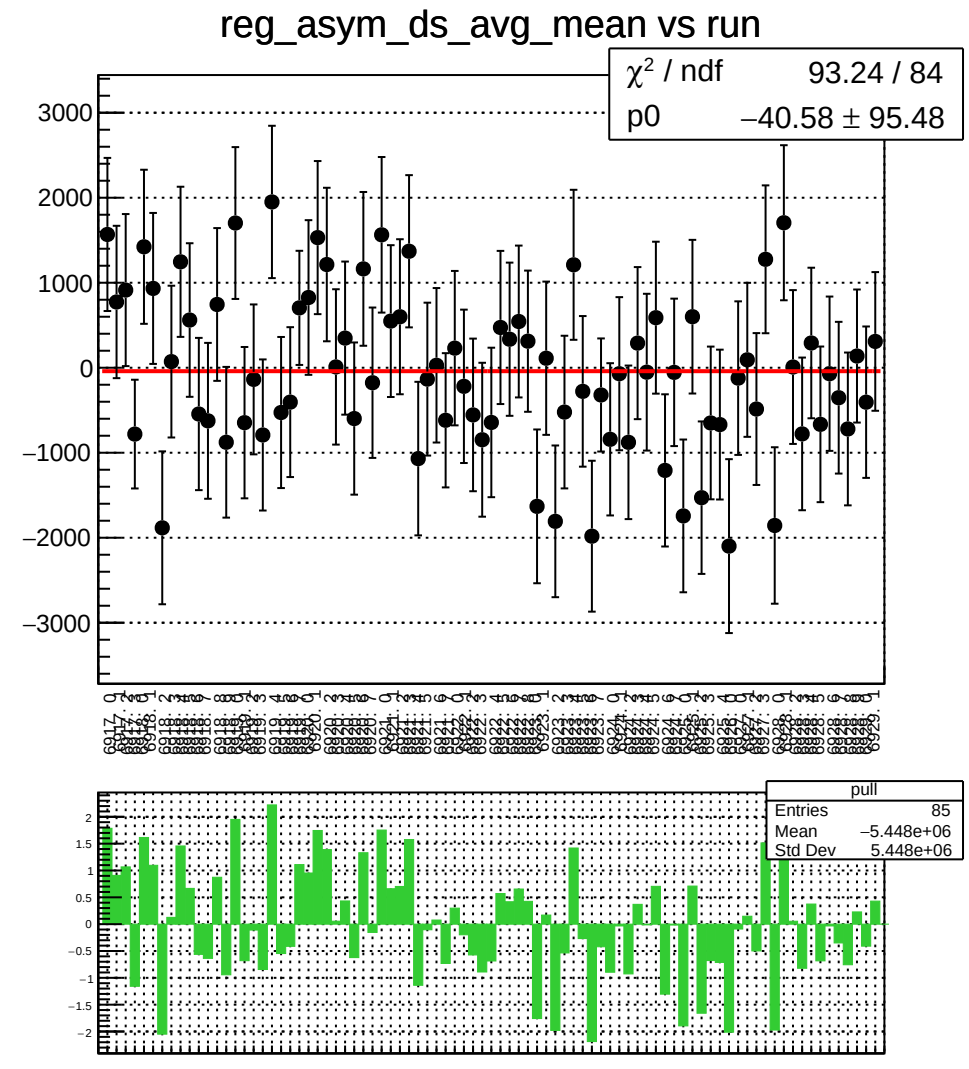

asym_us_dd_correction_mean vs run
χ² / ndf 92.97 / 84
p0 −1687 ± 668.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 956.3
Std Dev 920.1
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.003568
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

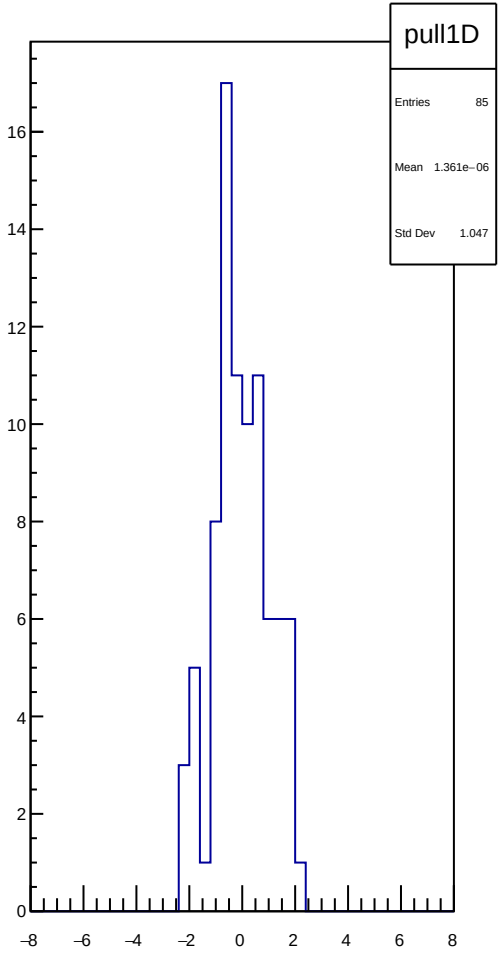

asym_us_dd_correction_rms vs run
χ² / ndf 3329 / 84
p0 596.4 ± 0.4728
700
680
660
640
620
600
580
560
540

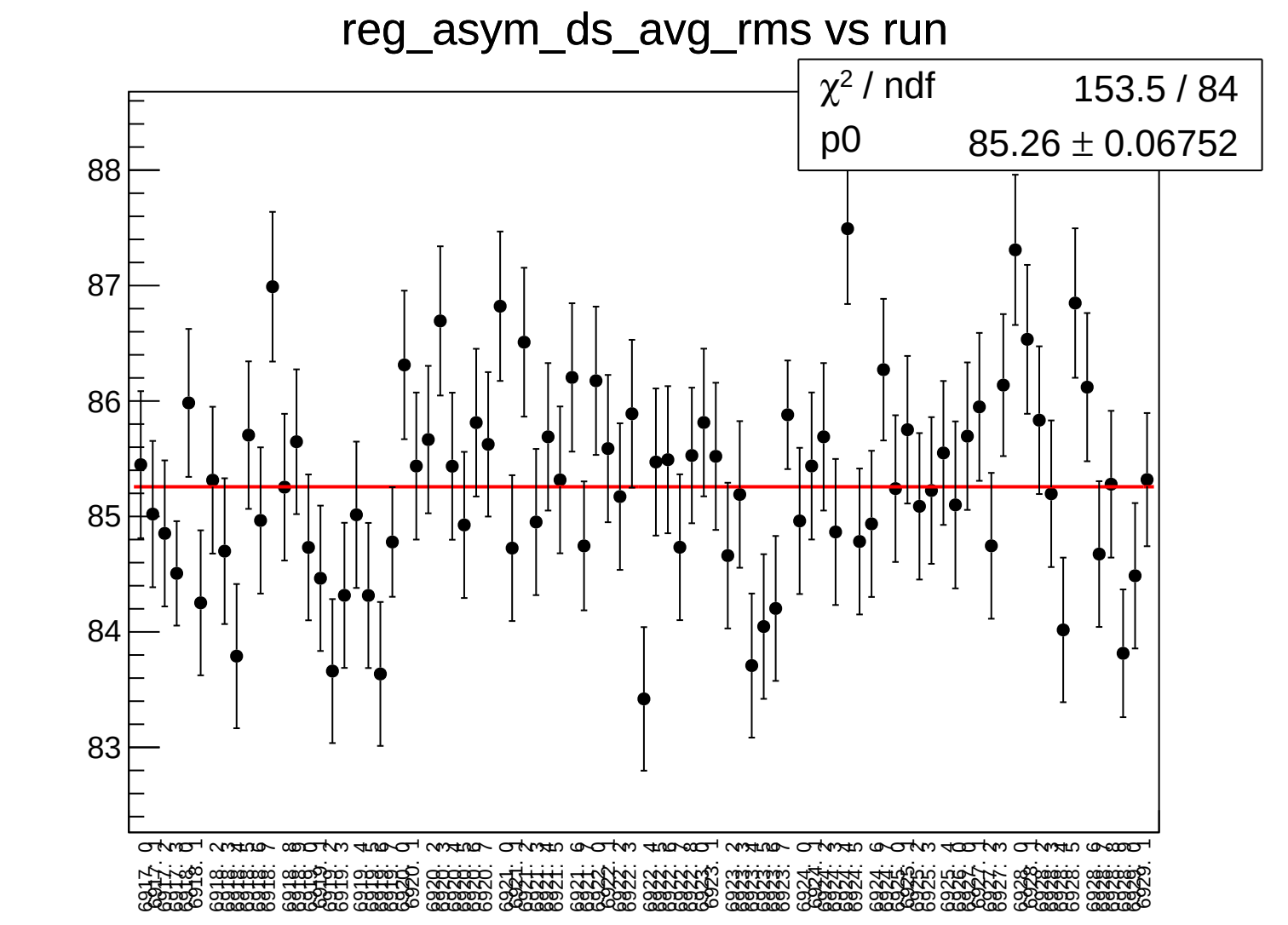

asym_us_dd_mean vs run
χ² / ndf 78.74 / 84
p0 1454 ± 1102
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 218.2
Std Dev 219.9
2
1
0
−1
−2

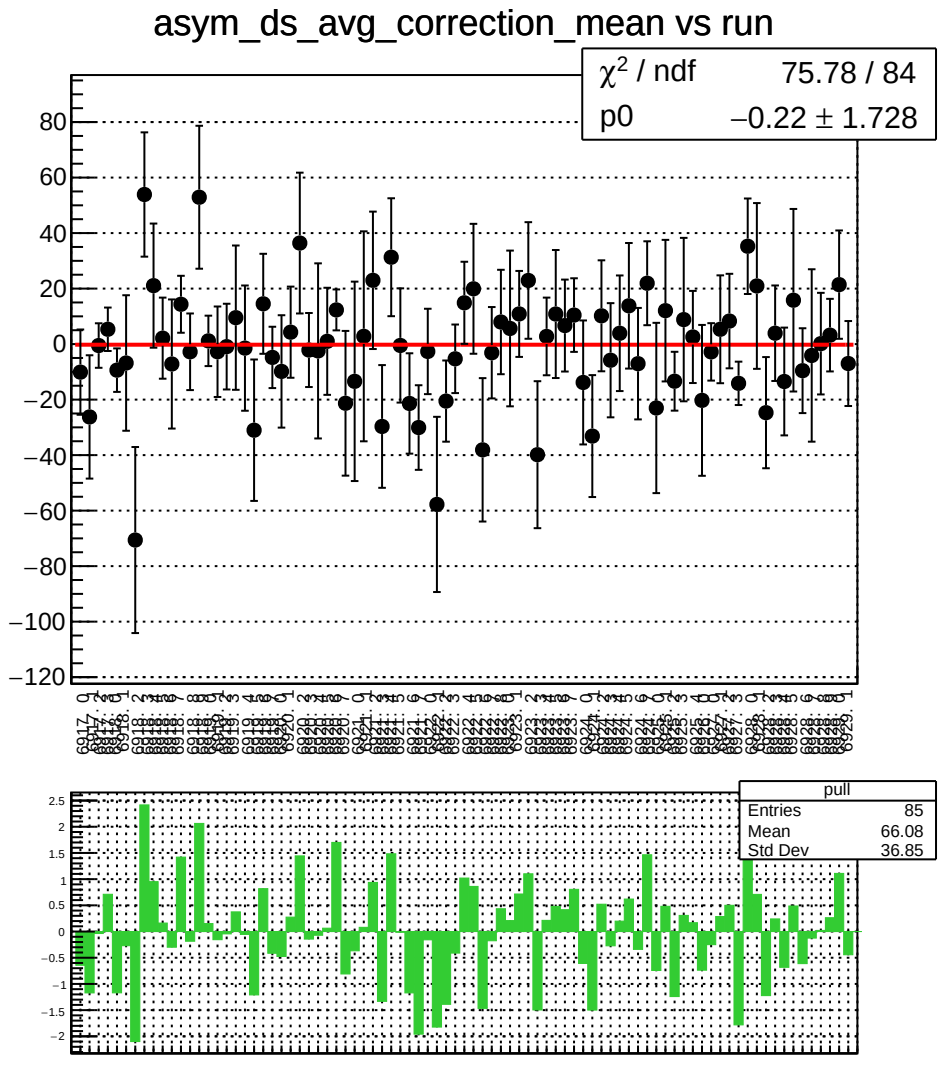

pull1D
Entries 85
Mean −0.004836
Std Dev 0.9625
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

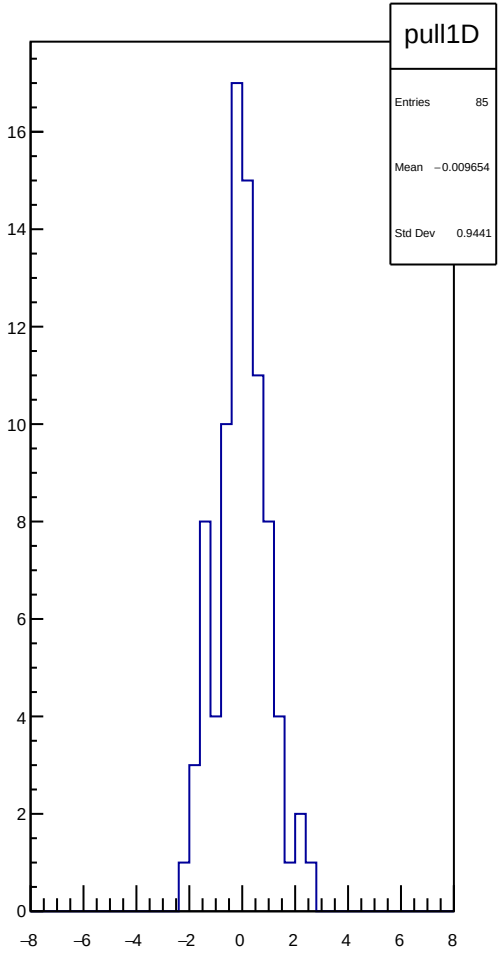

asym_us_dd_rms vs run
χ^2 / ndf 527.1 / 84
p0 983.6 ± 0.779
1060
1040
1020
1000
980
960
940

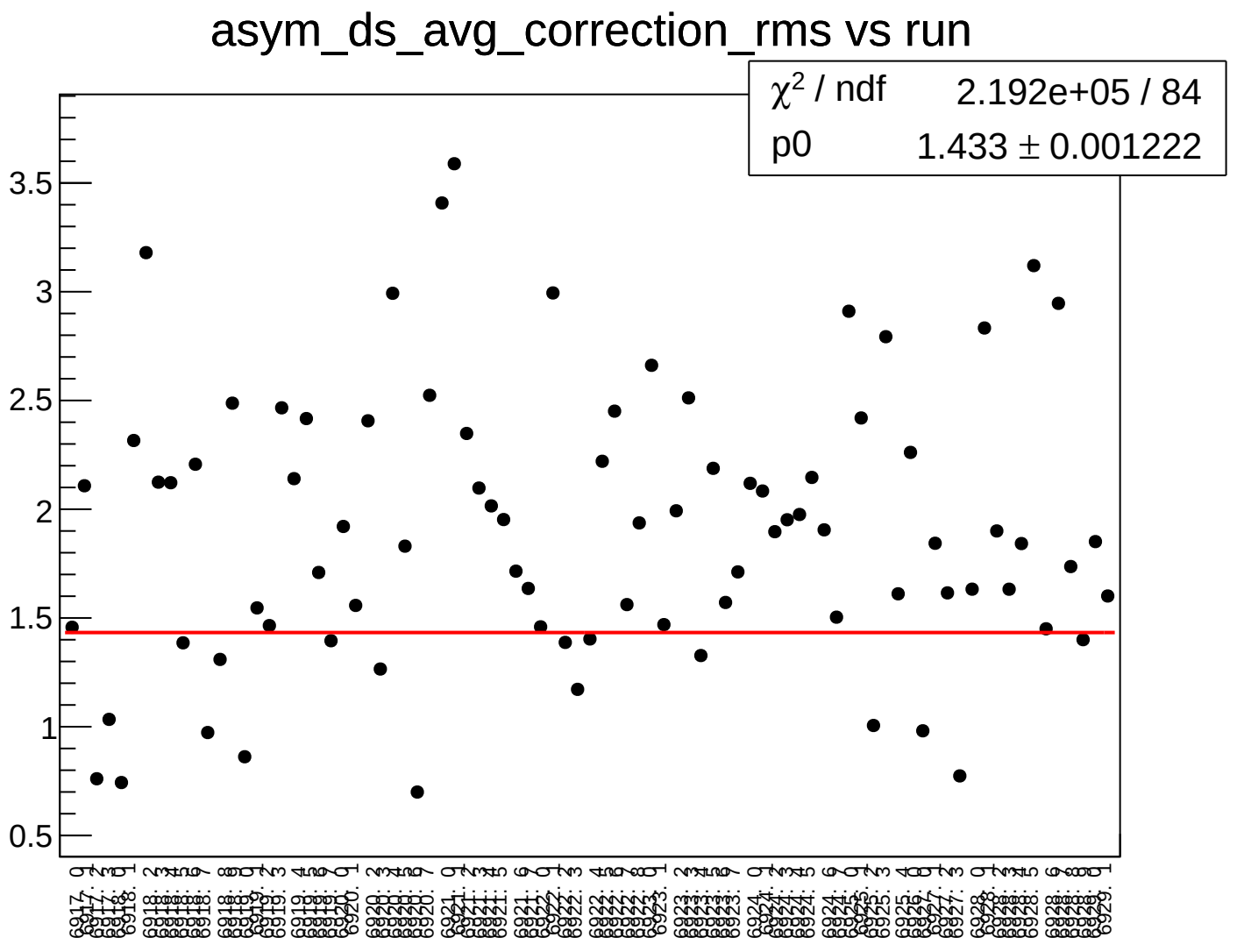

reg_asym_ds_avg_mean vs run
χ² / ndf 93.24 / 84
p0 −40.58 ± 95.48
pull
Entries 85
Mean −5.448e+06
Std Dev 5.448e+06

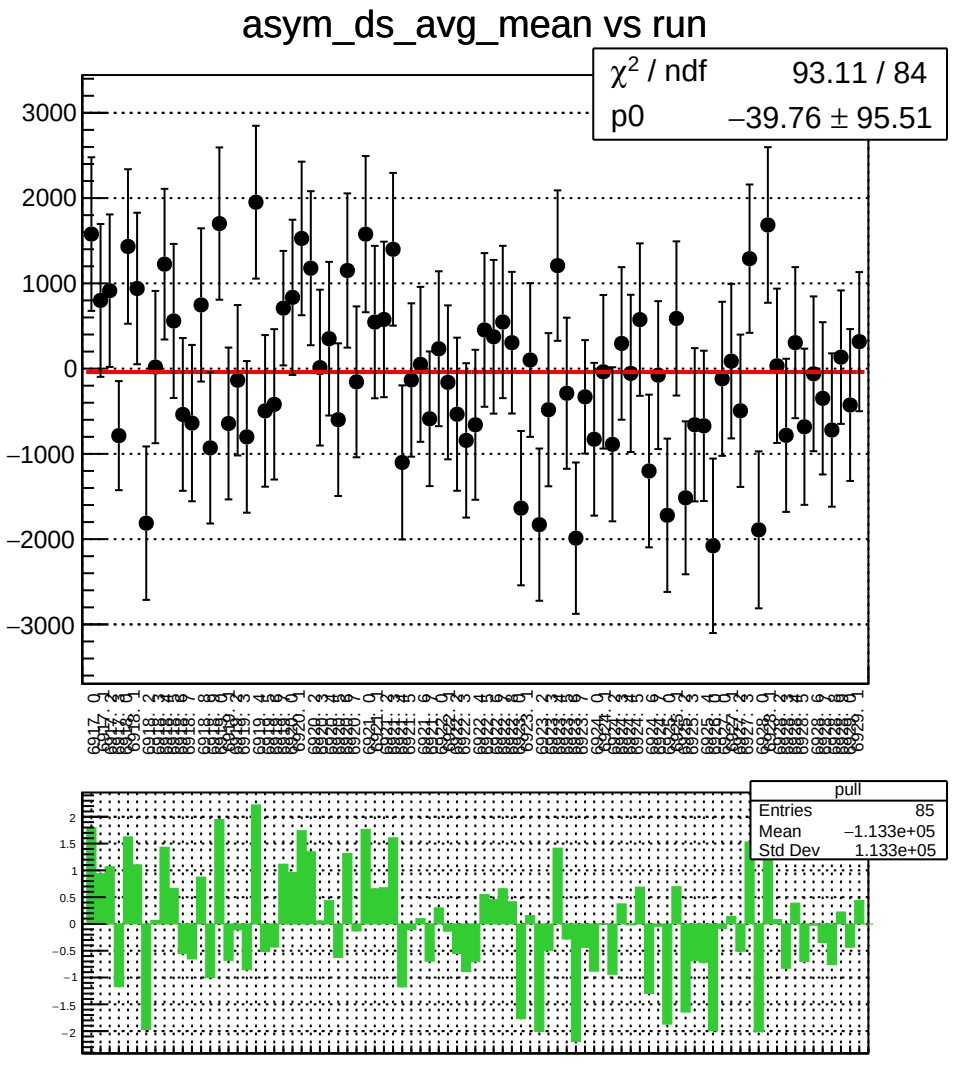

pull1D
Entries 85
Mean 1.361e−06
Std Dev 1.047

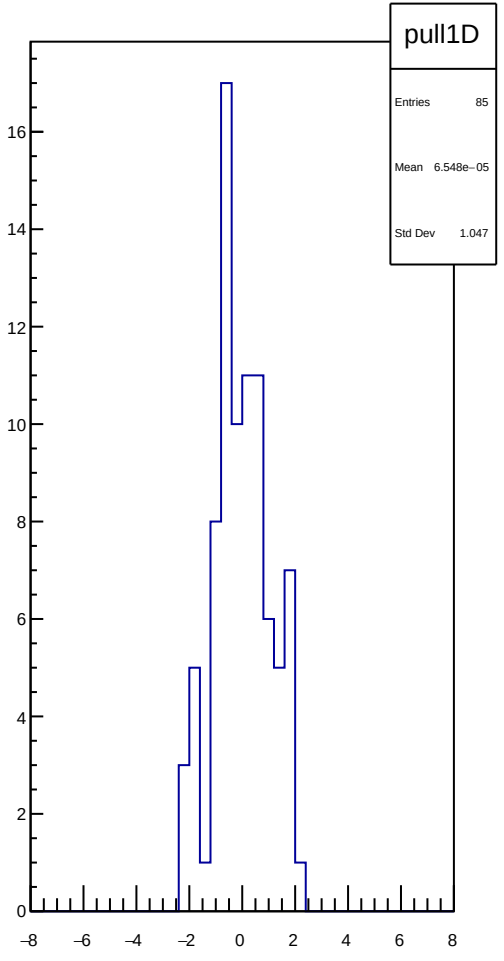

reg_asym_ds_avg_rms vs run
χ² / ndf 153.5 / 84
p0 85.26 ± 0.06752
88
87
86
85
84
83

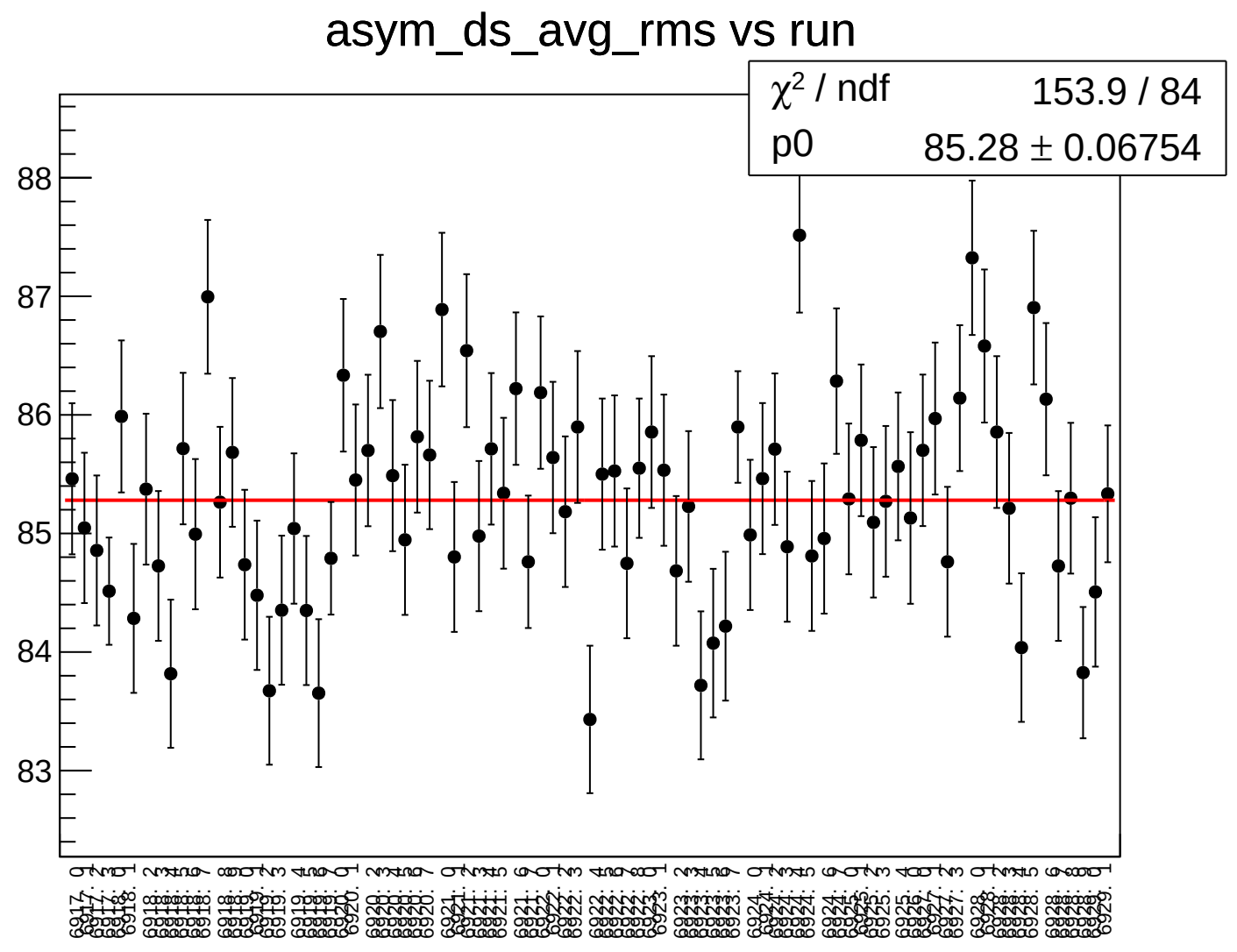

asym_ds_avg_correction_mean vs run
χ² / ndf 75.78 / 84
p0 −0.22 ± 1.728
pull
Entries 85
Mean 66.08
Std Dev 36.85

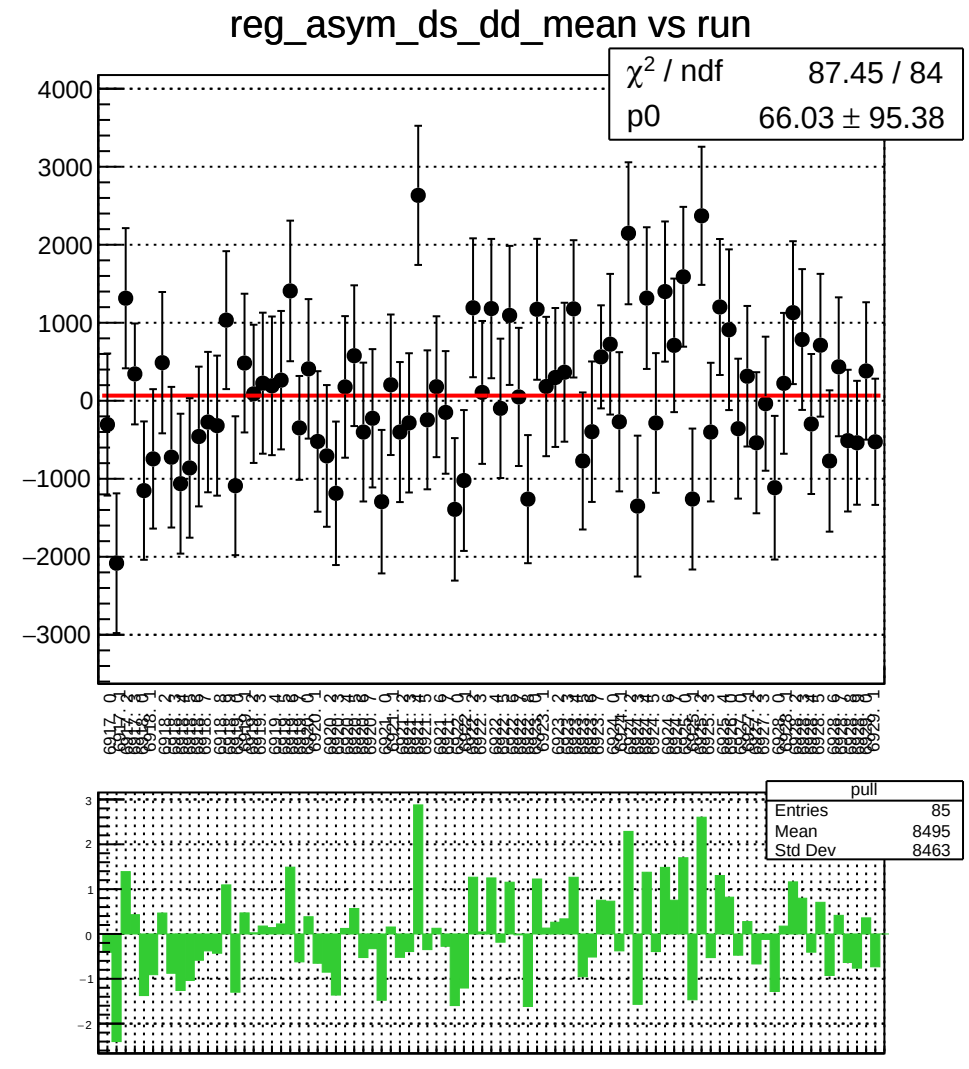

pull1D
Entries 85
Mean −0.009654
Std Dev 0.9441

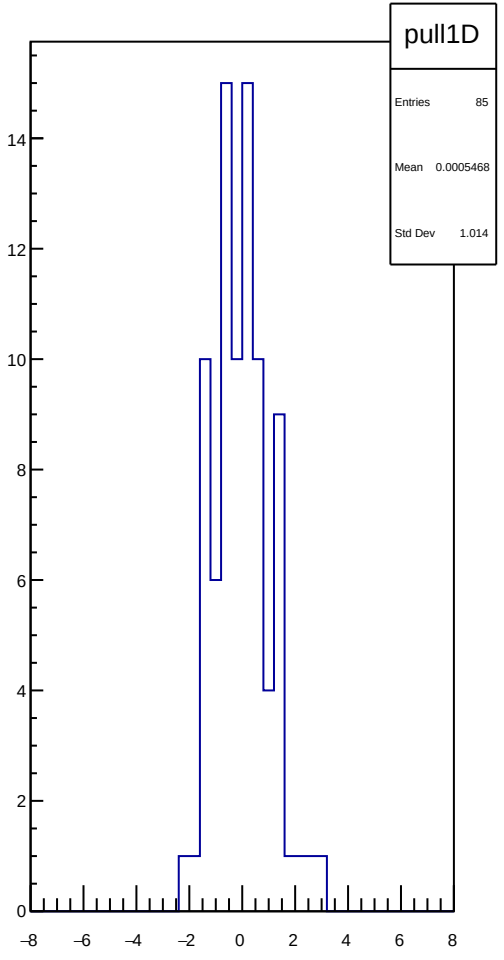

asym_ds_avg_correction_rms vs run
χ^2 / ndf 2.192e+05 / 84
p0 1.433 ± 0.001222
3.5
3
2.5
2
1.5
1
0.5

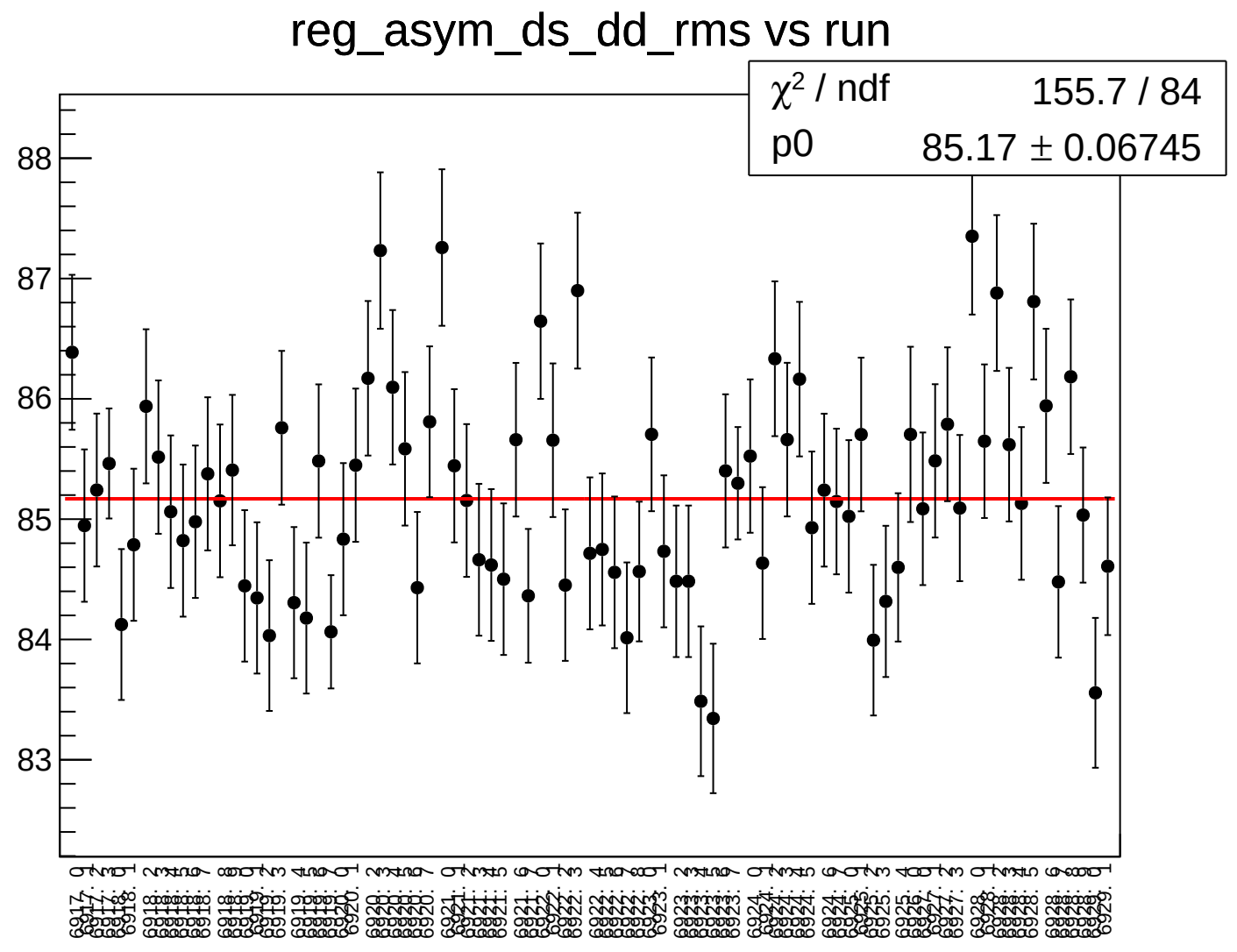

asym_ds_avg_mean vs run
χ^2 / ndf 93.11 / 84
p0 −39.76 ± 95.51
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −1.133e+05
Std Dev 1.133e+05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

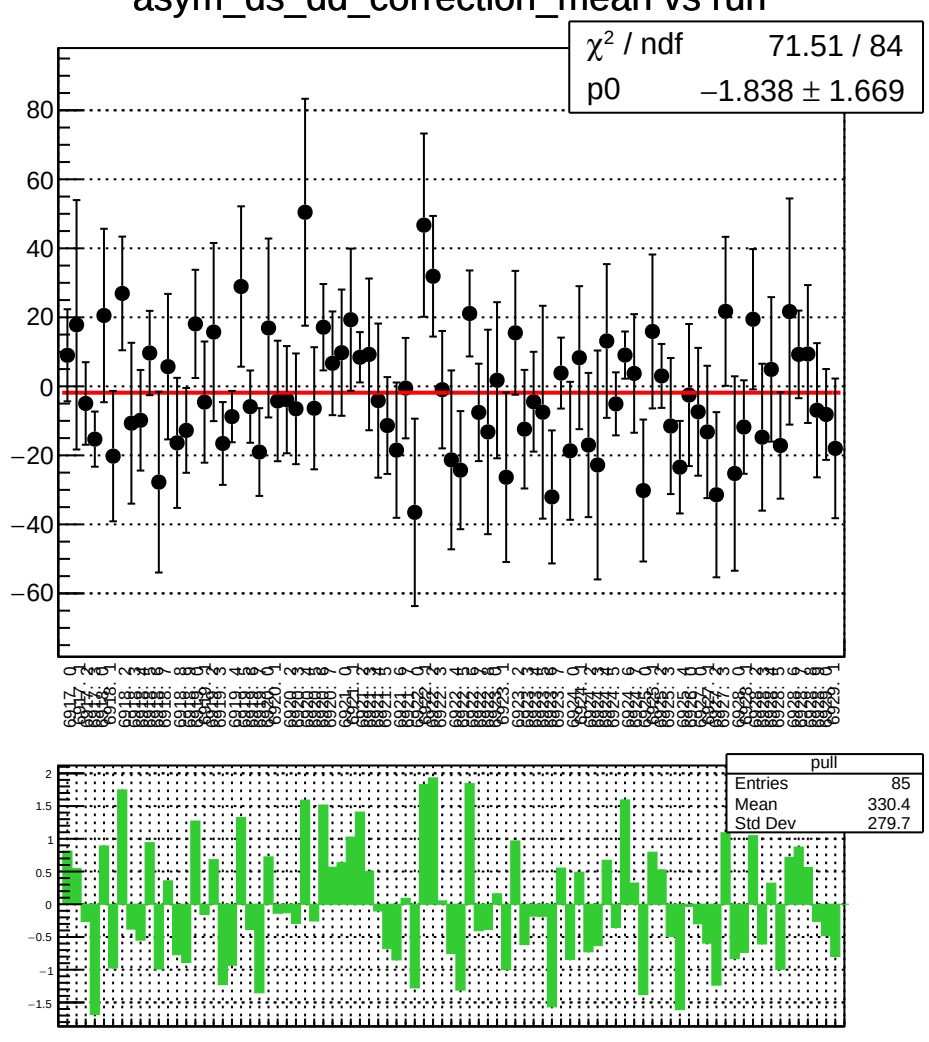

pull1D
Entries 85
Mean 6.548e−05
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

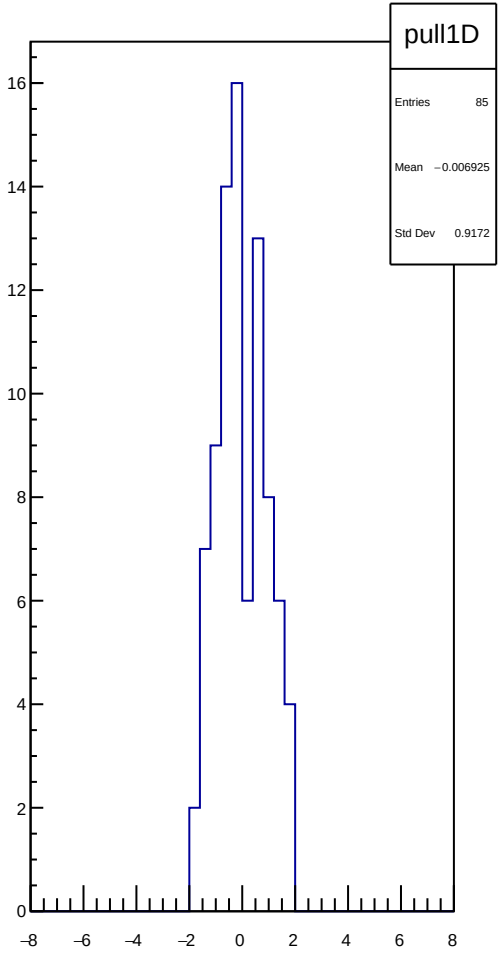

asym_ds_avg_rms vs run
χ² / ndf 153.9 / 84
p0 85.28 ± 0.06754
88
87
86
85
84
83

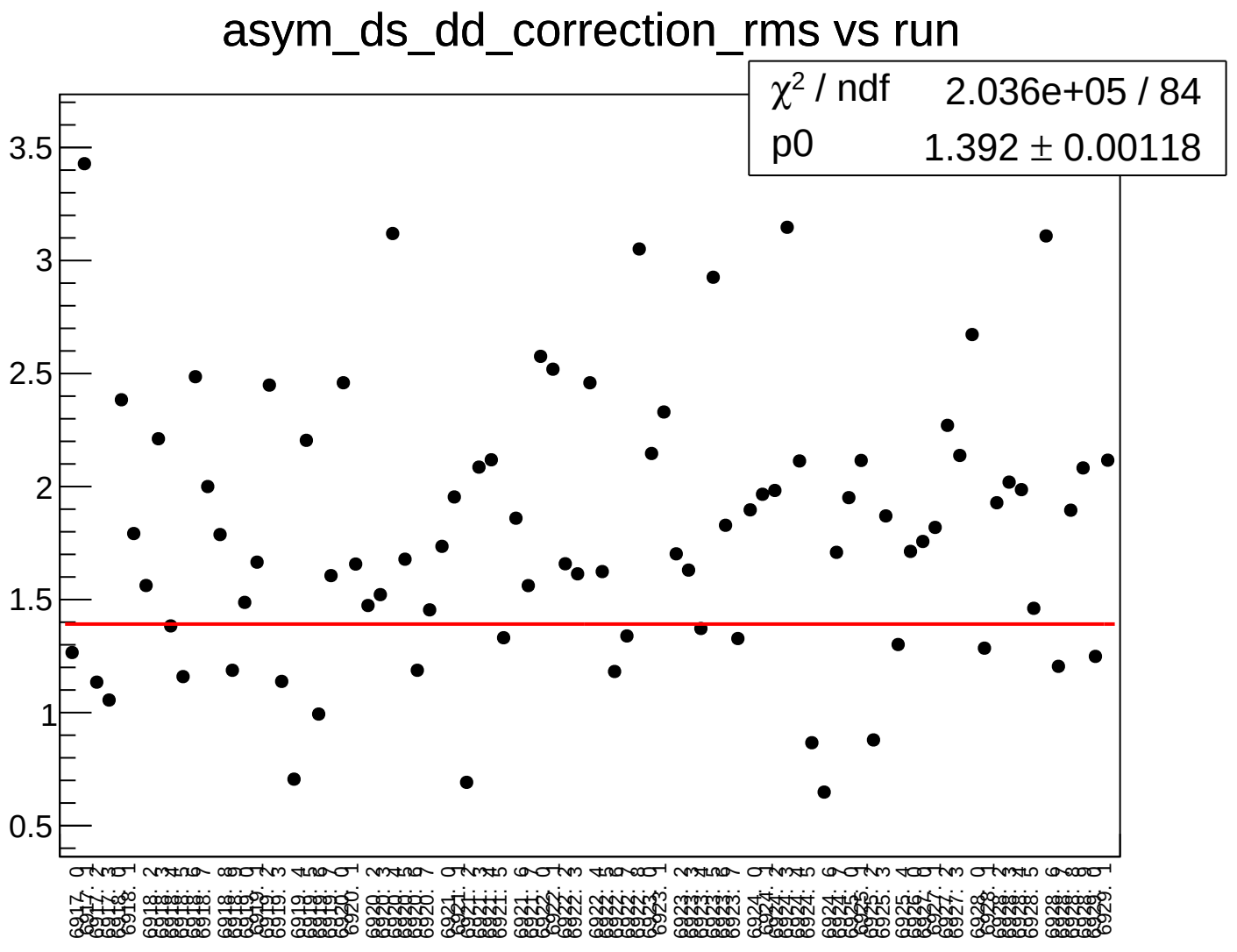

reg_asym_ds_dd_mean vs run
χ^2 / ndf 87.45 / 84
p0 66.03 ± 95.38
pull
Entries 85
Mean 8495
Std Dev 8463

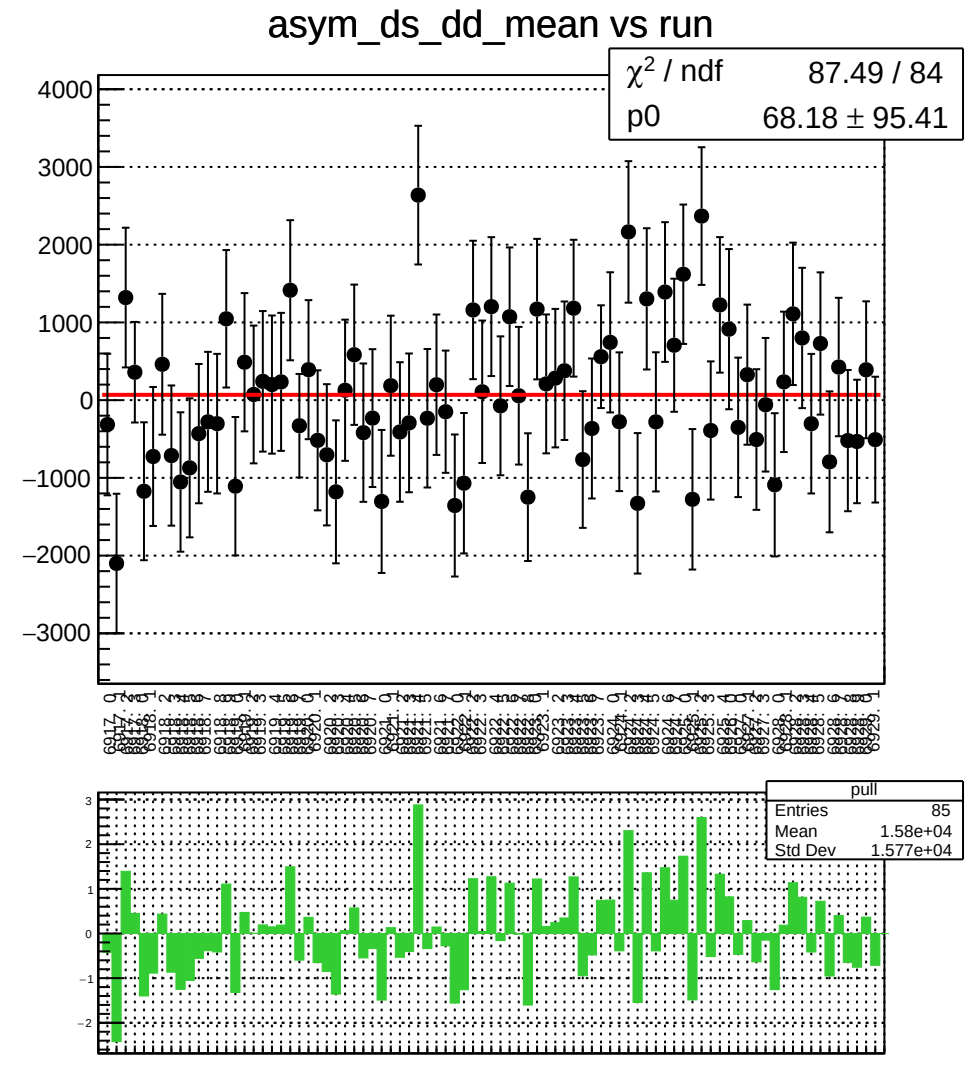

pull1D
Entries 85
Mean 0.0005468
Std Dev 1.014

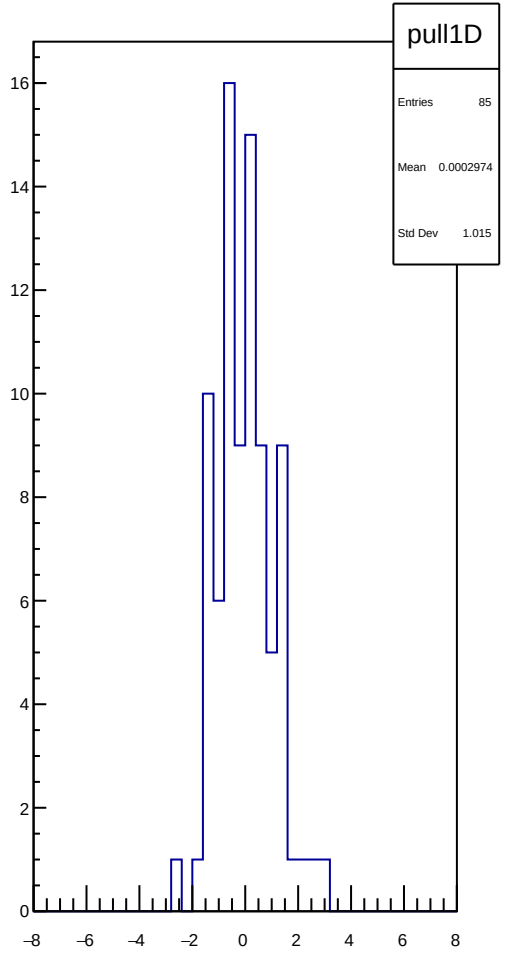

reg_asym_ds_dd_rms vs run
χ^2 / ndf 155.7 / 84
p0 85.17 ± 0.06745
88
87
86
85
84
83

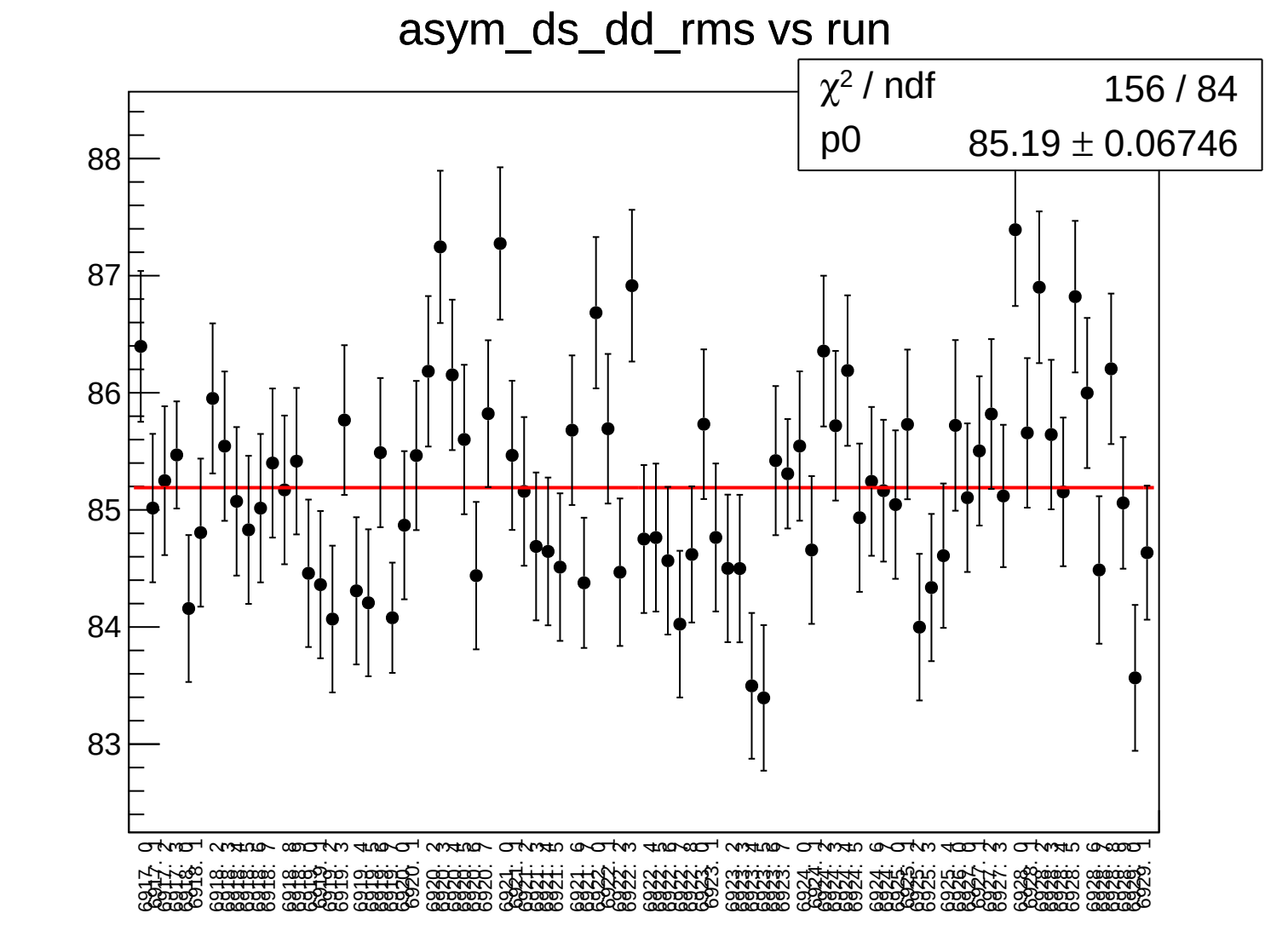

asym_ds_dd_correction_mean vs run
χ² / ndf 71.51 / 84
p0 −1.838 ± 1.669
pull
Entries 85
Mean 330.4
Std Dev 279.7

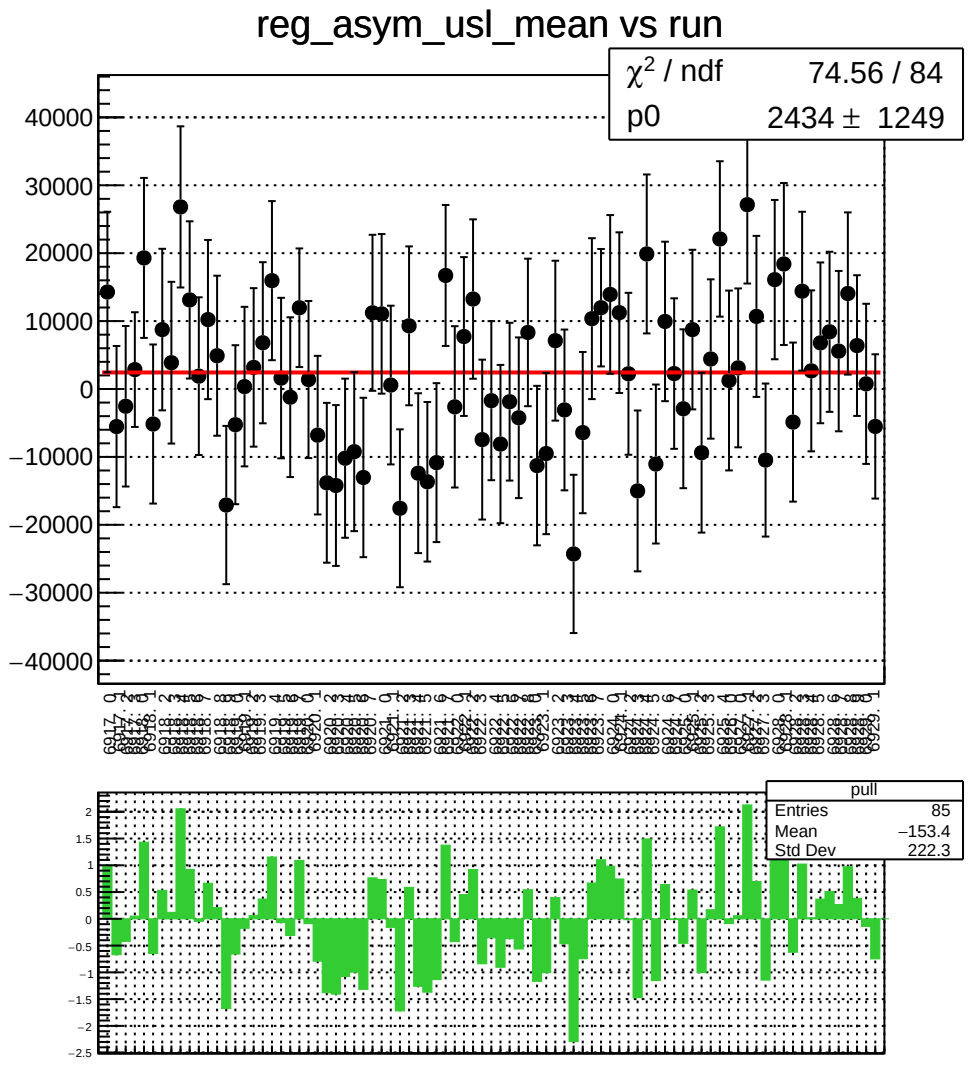

pull1D
Entries 85
Mean −0.006925
Std Dev 0.9172

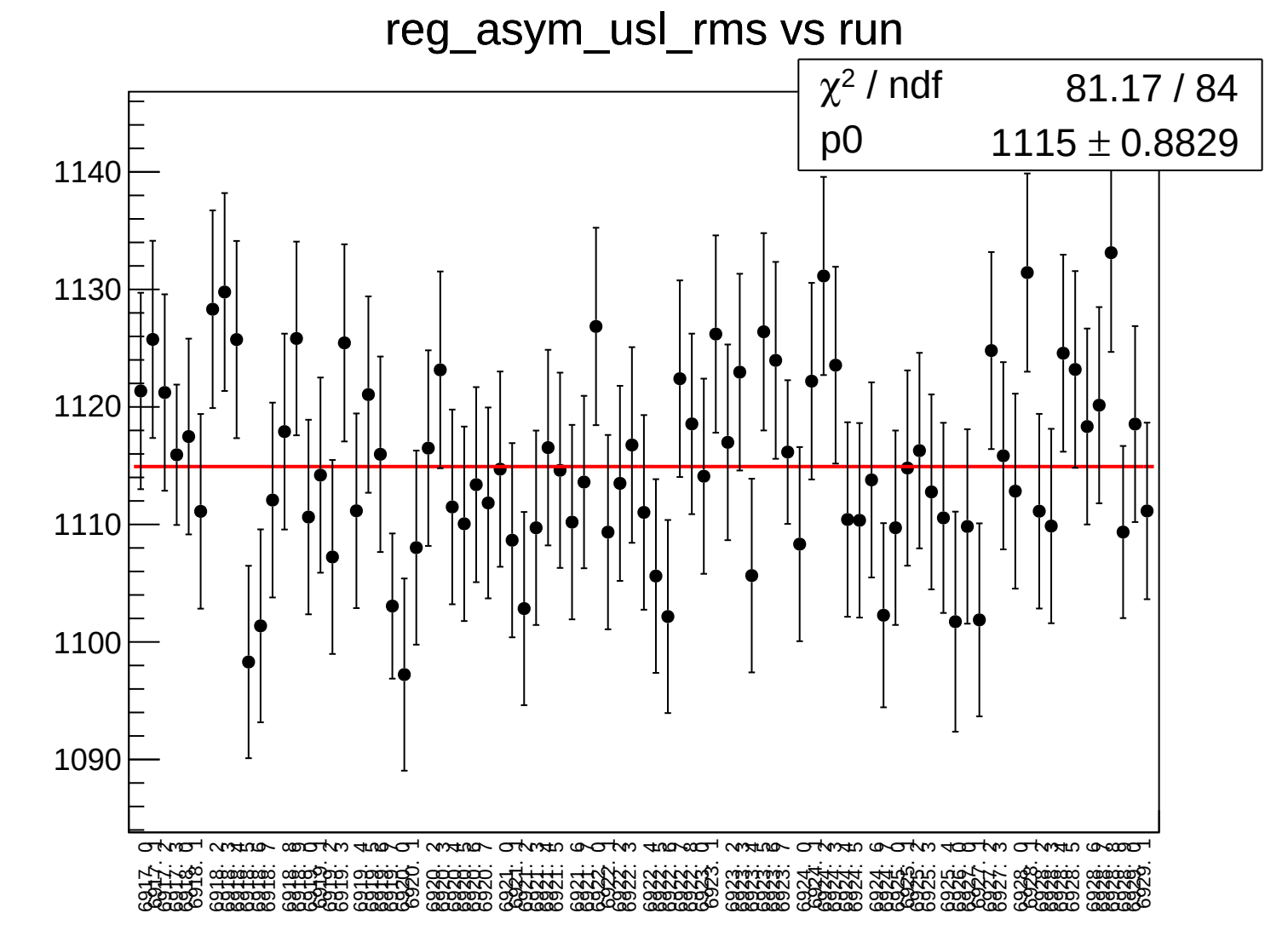

asym_ds_dd_correction_rms vs run
χ² / ndf 2.036e+05 / 84
p0 1.392 ± 0.00118
3.5
3
2.5
2
1.5
1
0.5

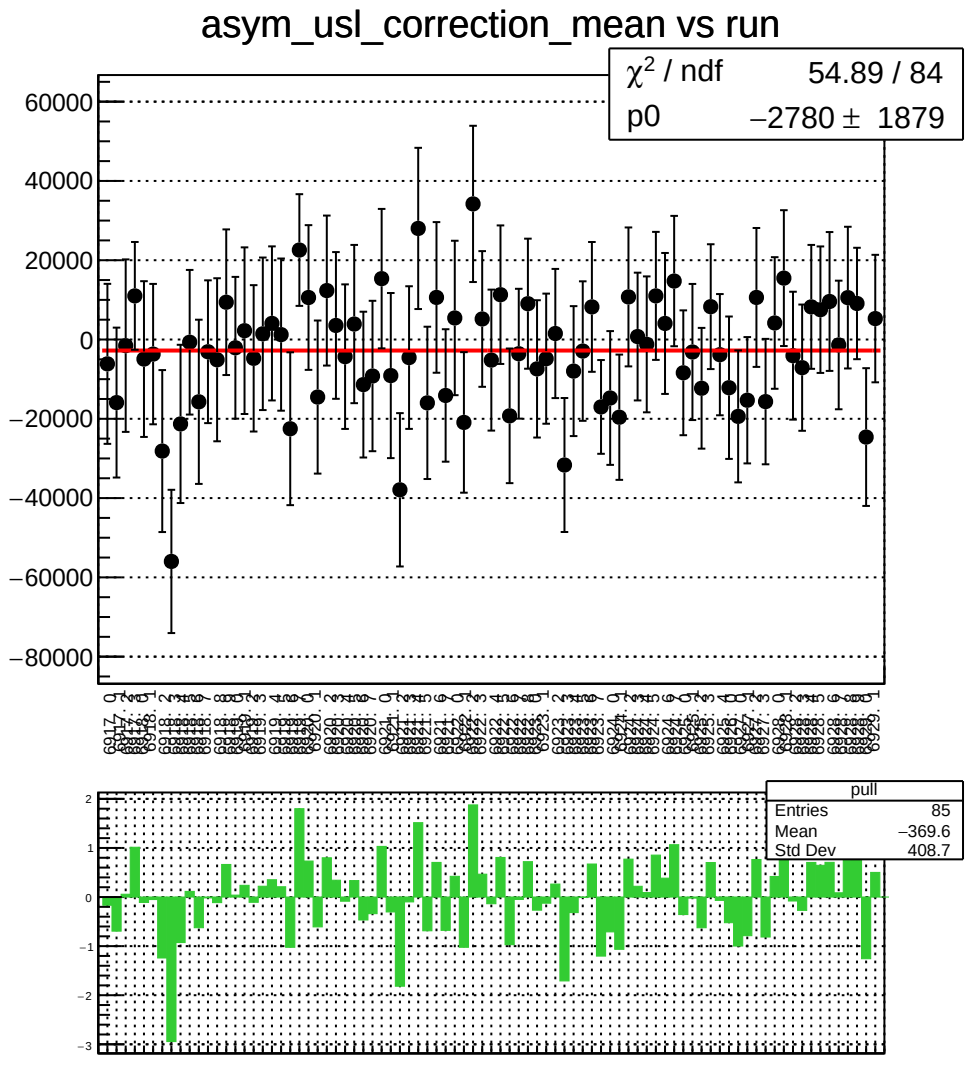

asym_ds_dd_mean vs run
χ^2 / ndf 87.49 / 84
p0 68.18 ± 95.41
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 1.58e+04
Std Dev 1.577e+04
3
2
1
0
−1
−2

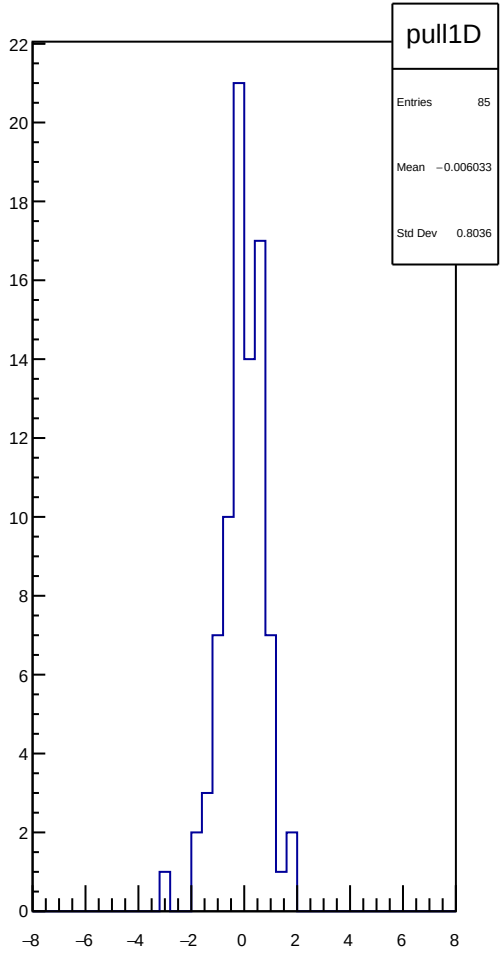

pull1D
Entries 85
Mean 0.0002974
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

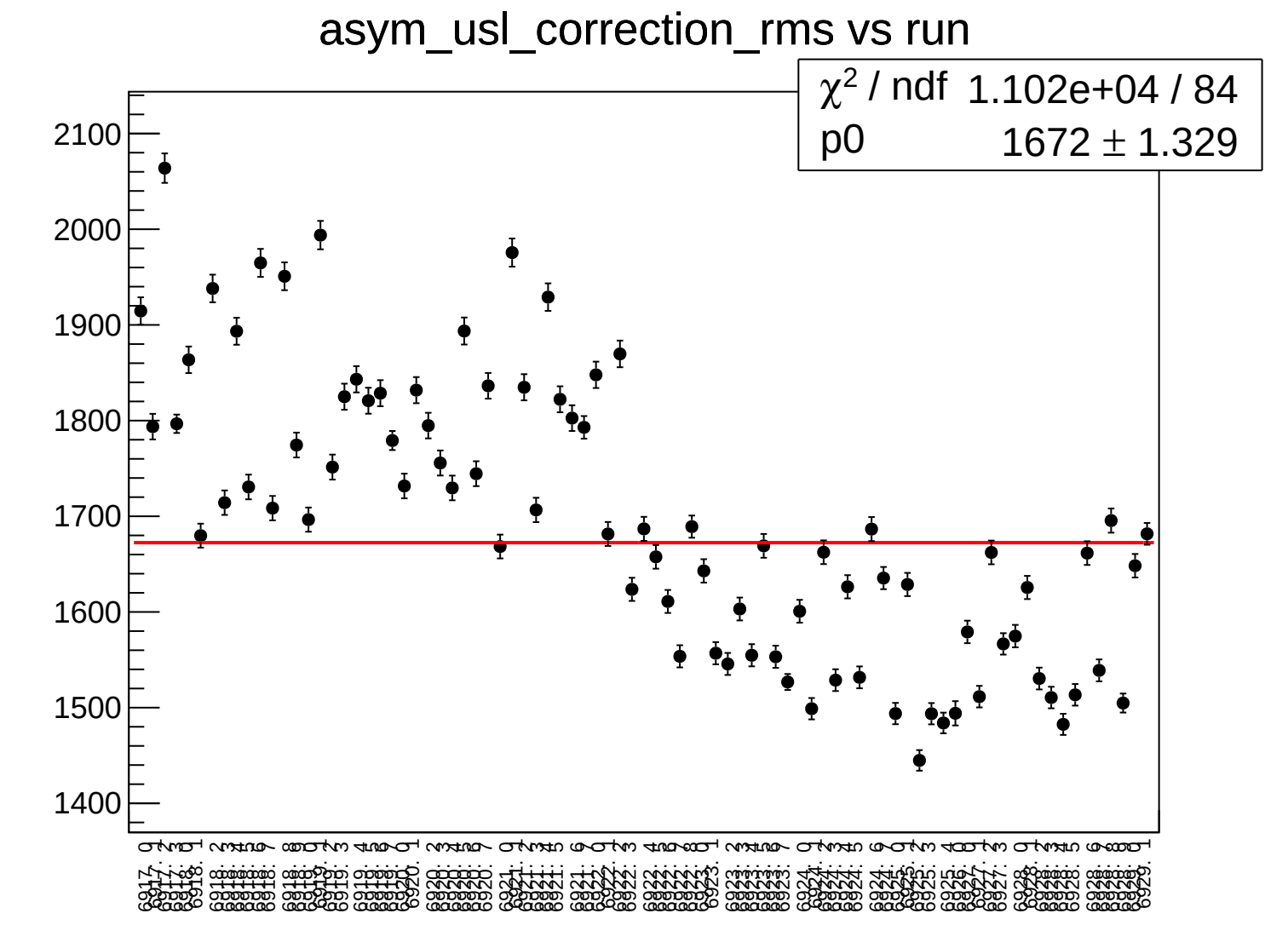

asym_ds_dd_rms vs run
χ^2 / ndf 156 / 84
p0 85.19 ± 0.06746
88
87
86
85
84
83

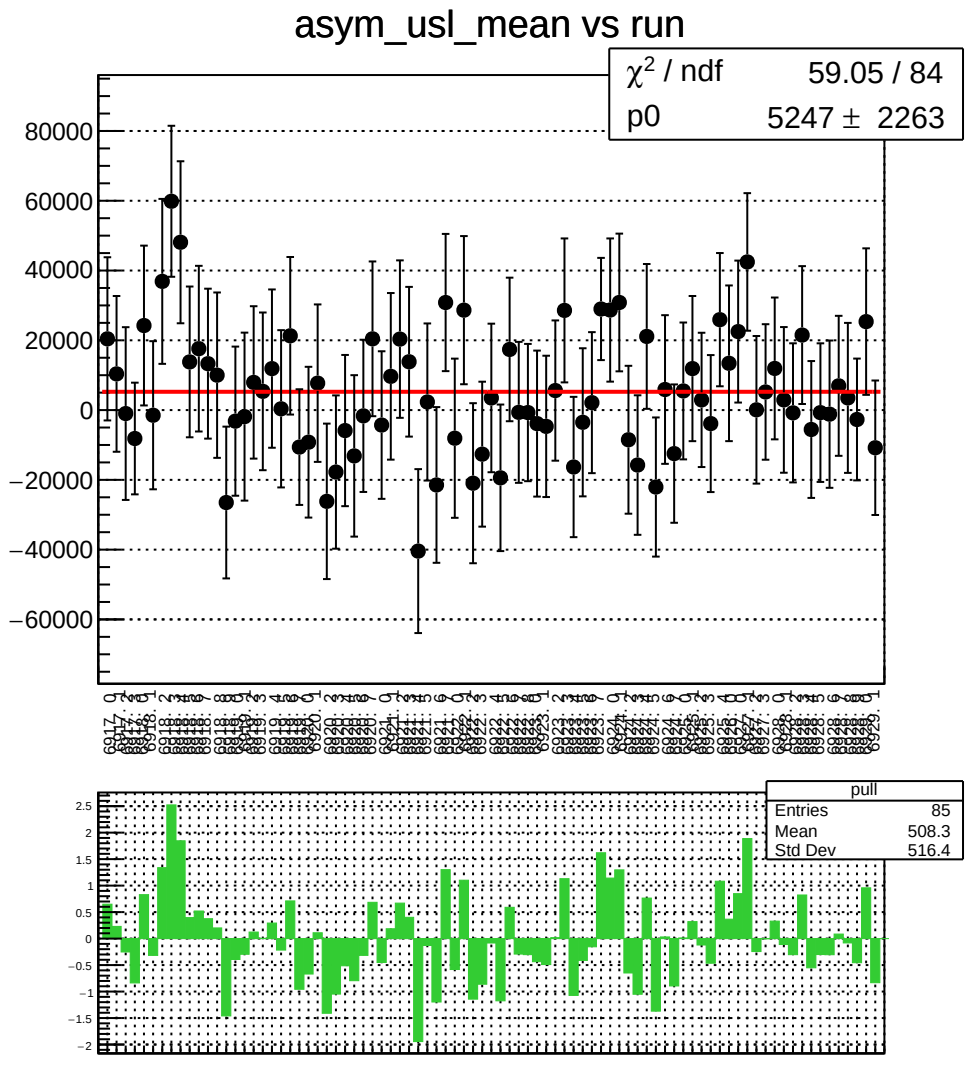

reg_asym_usl_mean vs run
χ² / ndf 74.56 / 84
p0 2434 ± 1249
pull
Entries 85
Mean −153.4
Std Dev 222.3
pull1D
Entries 85
Mean −0.01122
Std Dev 0.9365

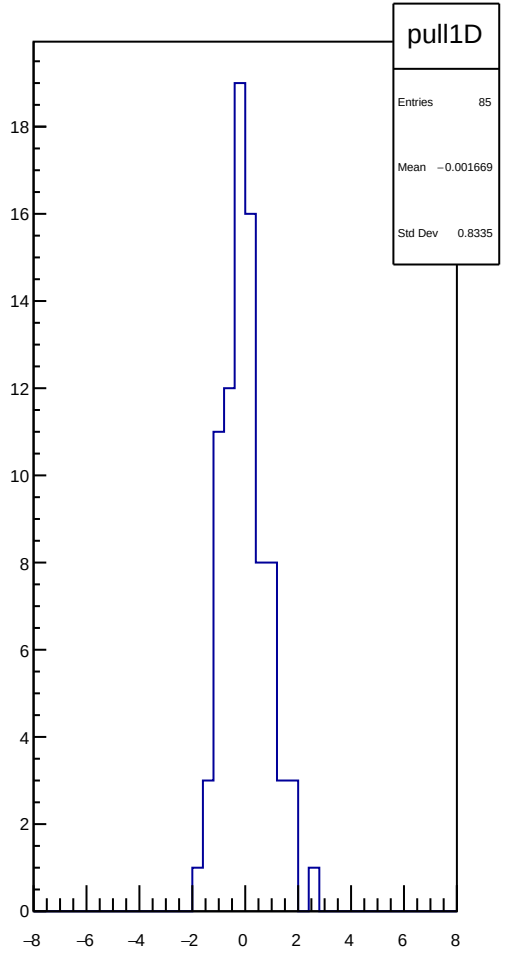

reg_asym_usl_rms vs run
χ^2 / ndf 81.17 / 84
p0 1115 ± 0.8829
1140
1130
1120
1110
1100
1090

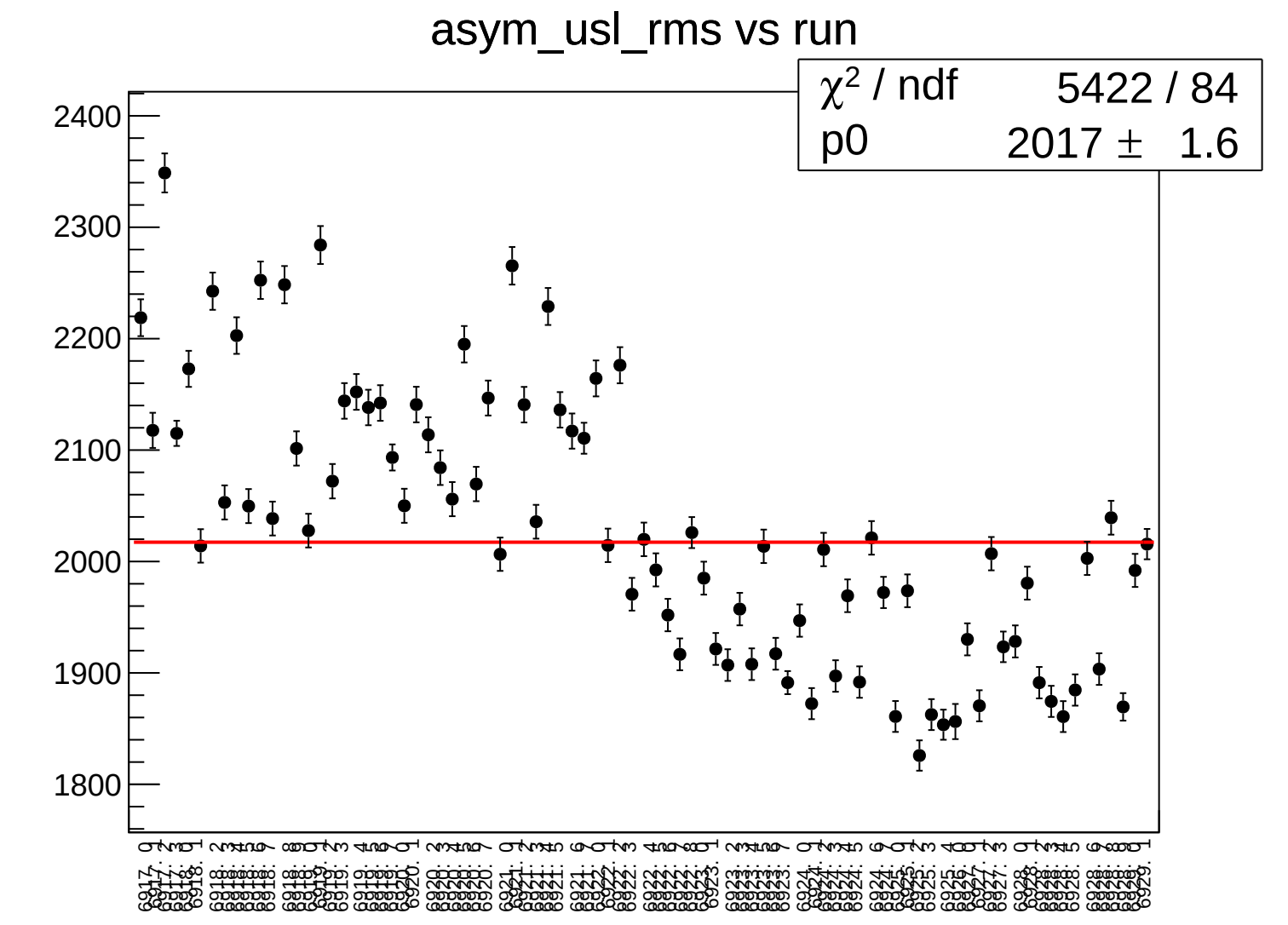

asym_usl_correction_mean vs run
χ² / ndf 54.89 / 84
p0 −2780 ± 1879
pull
Entries 85
Mean −369.6
Std Dev 408.7

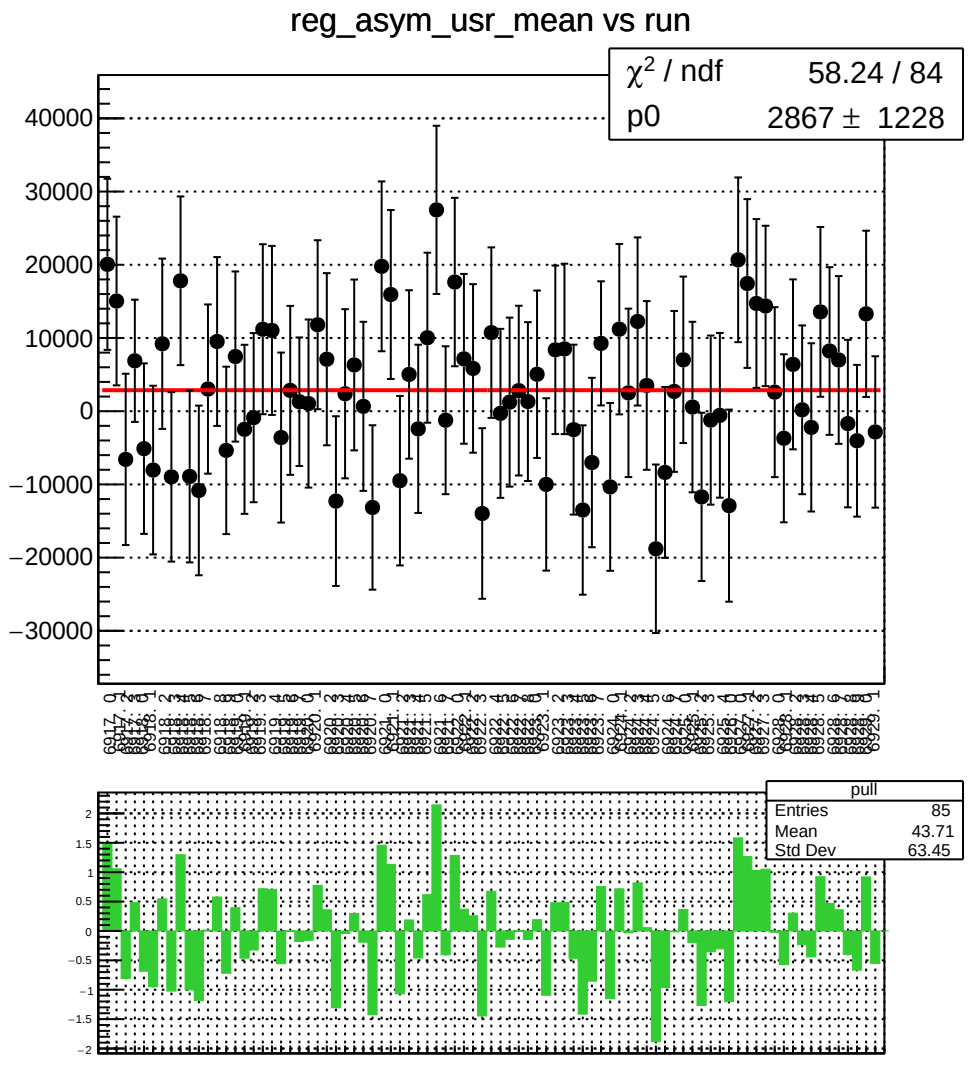

pull1D
Entries 85
Mean −0.006033
Std Dev 0.8036

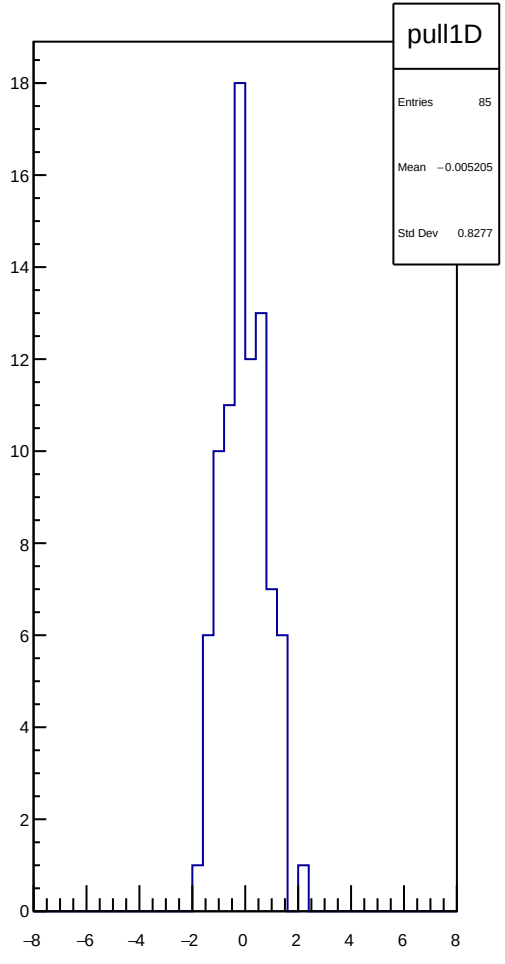

asym_usl_correction_rms vs run
χ² / ndf 1.102e+04 / 84
p0 1672 ± 1.329
2100
2000
1900
1800
1700
1600
1500
1400

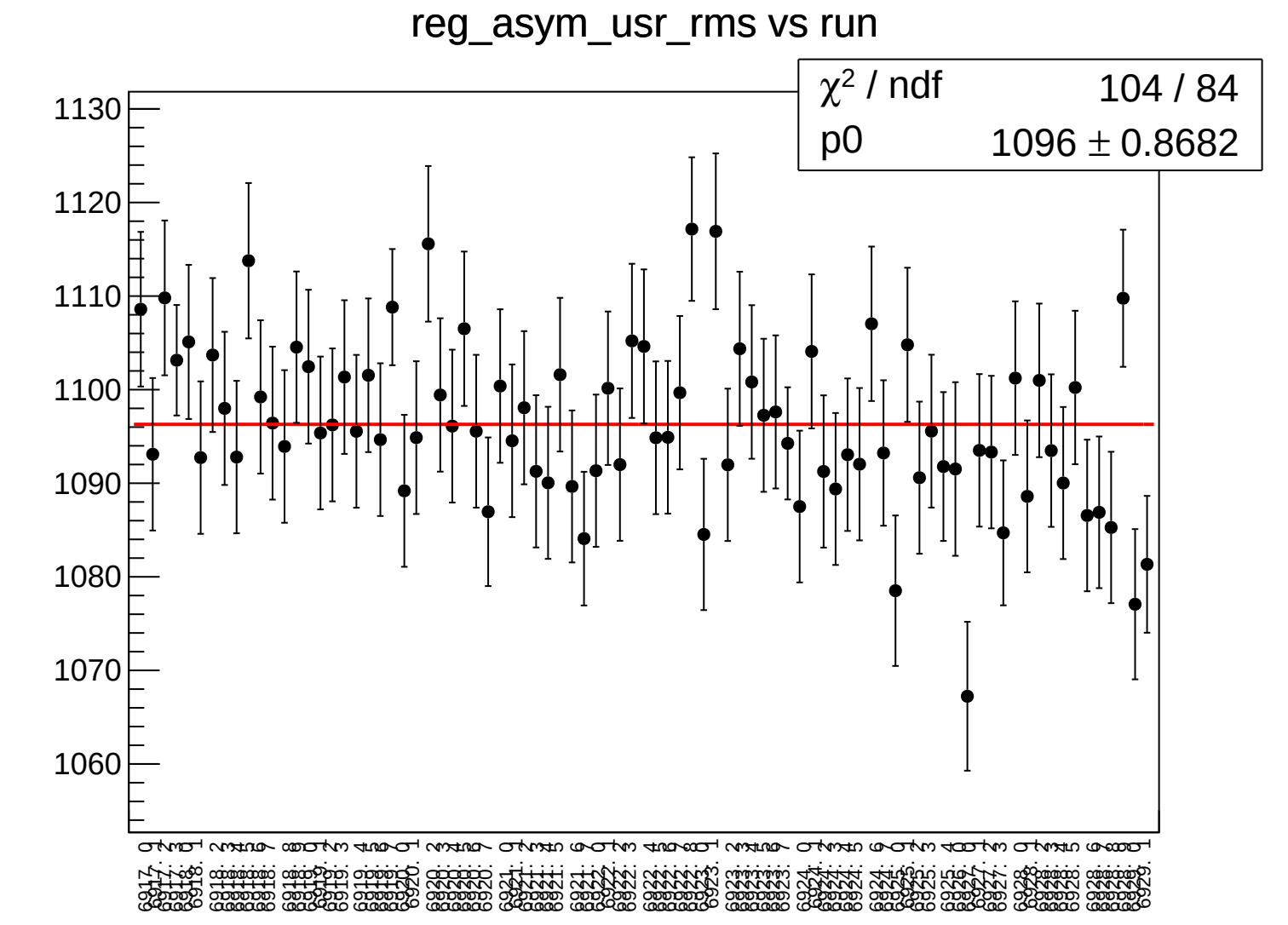

asym_usl_mean vs run
χ² / ndf 59.05 / 84
p0 5247 ± 2263
pull
Entries 85
Mean 508.3
Std Dev 516.4

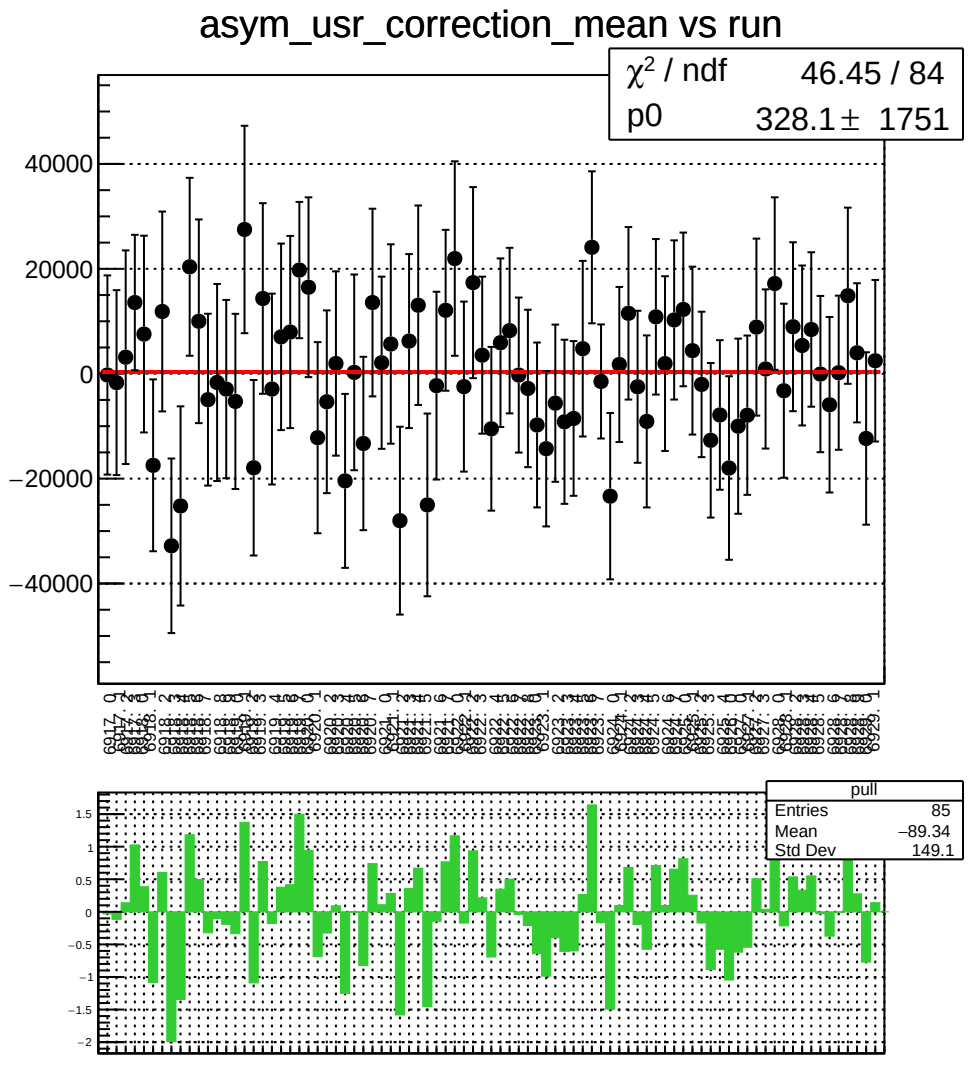

pull1D
Entries 85
Mean −0.001669
Std Dev 0.8335

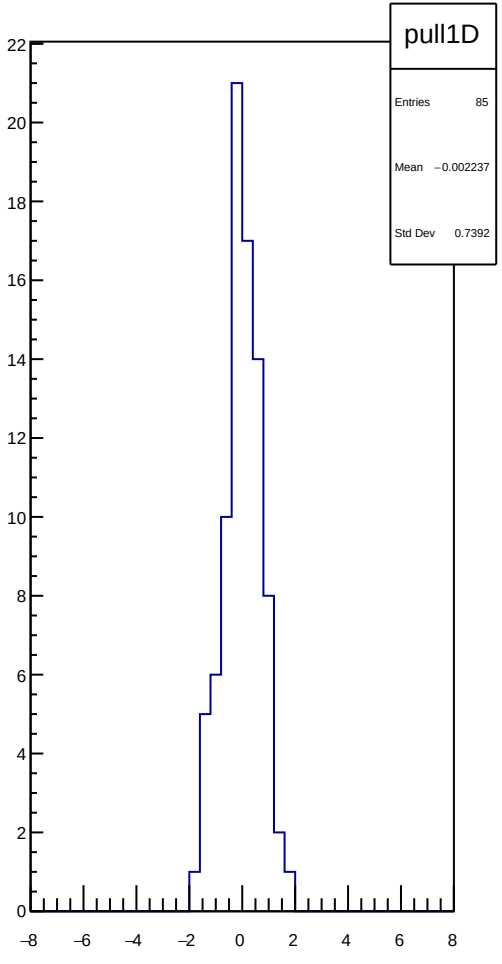

asym_usl_rms vs run
χ² / ndf 5422 / 84
p0 2017 ± 1.6
2400
2300
2200
2100
2000
1900
1800

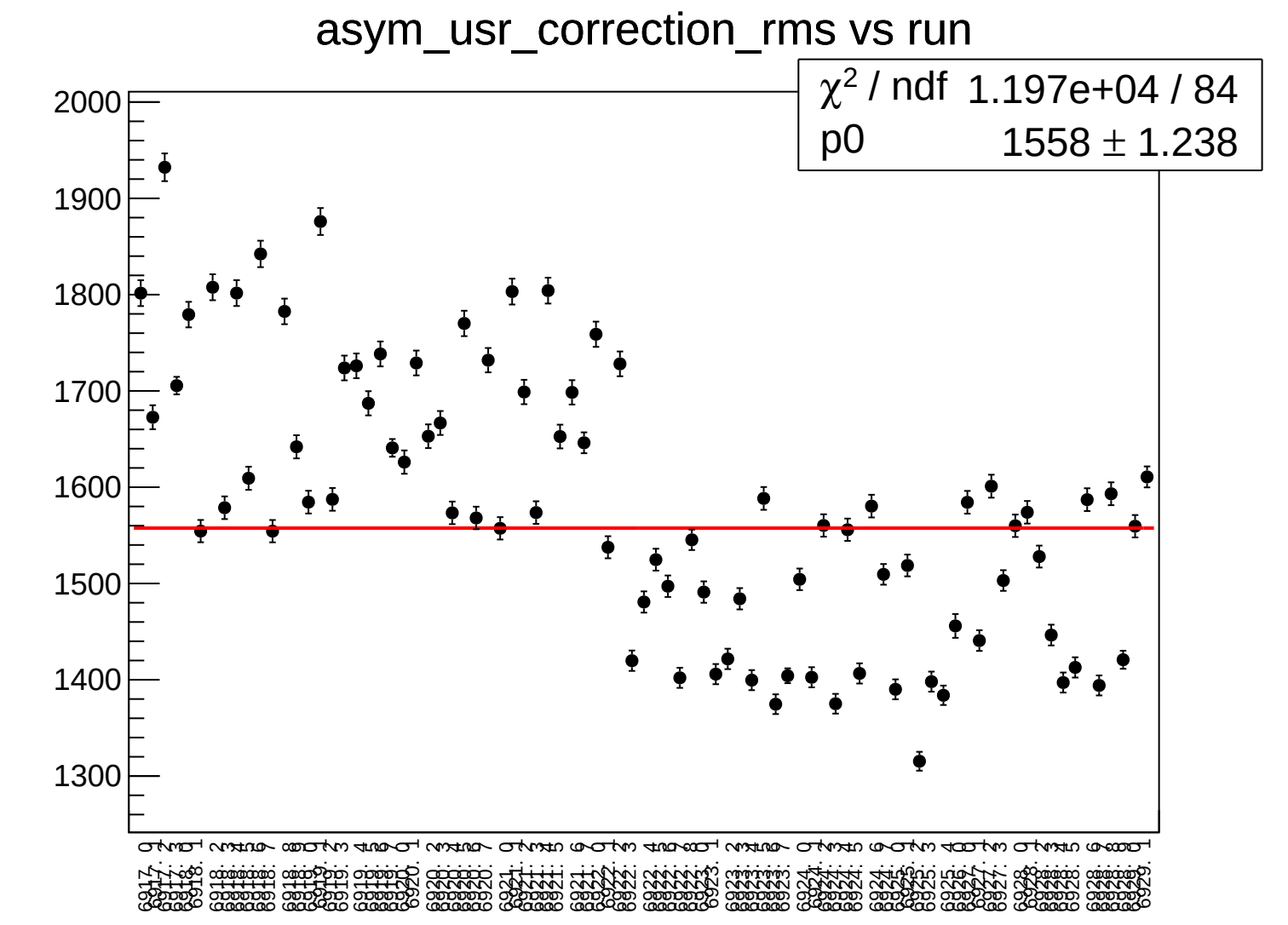

reg_asym_usr_mean vs run
χ² / ndf 58.24 / 84
p0 2867 ± 1228
pull
Entries 85
Mean 43.71
Std Dev 63.45

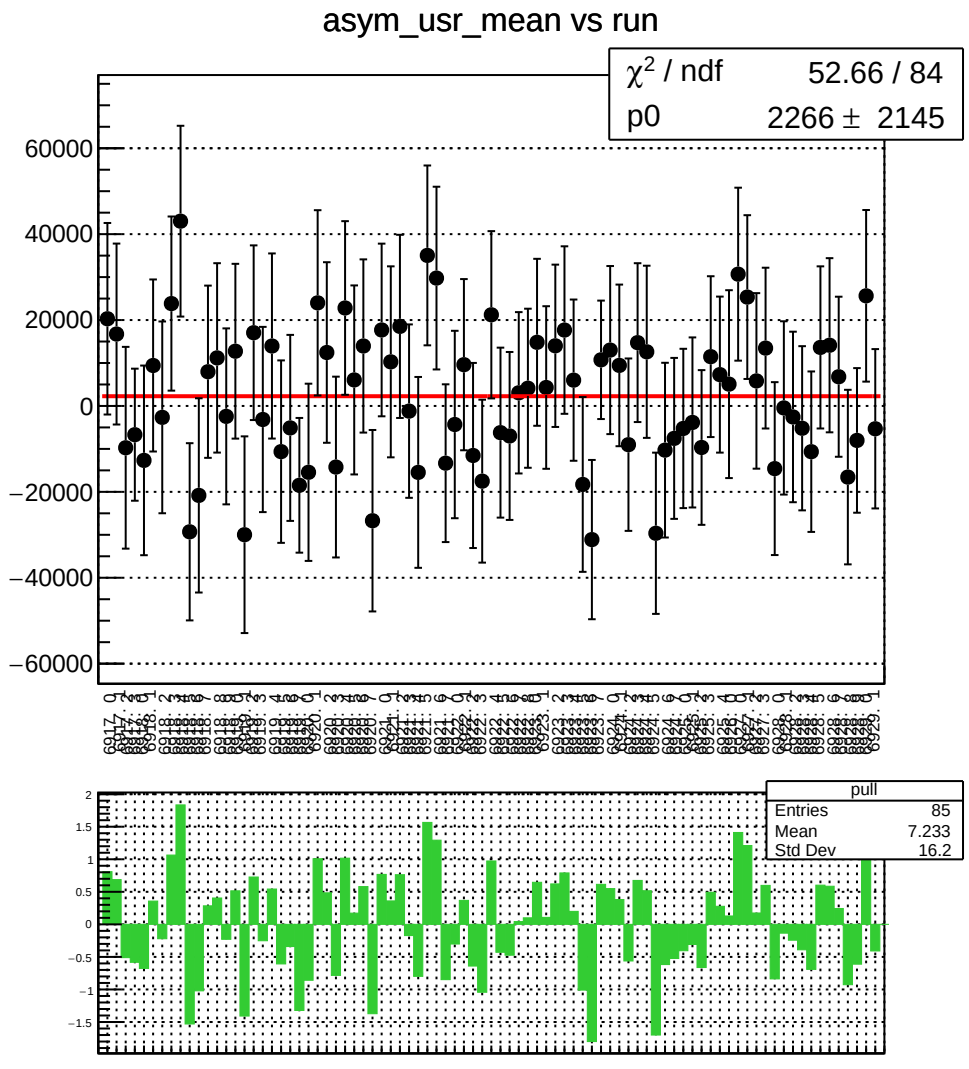

pull1D
Entries 85
Mean −0.005205
Std Dev 0.8277

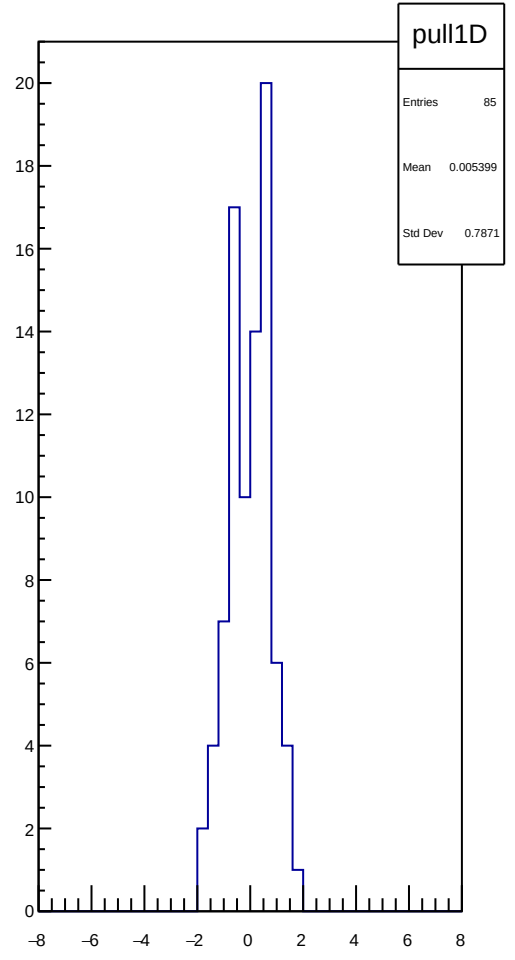

reg_asym_usr_rms vs run
χ² / ndf 104 / 84
p0 1096 ± 0.8682
1130
1120
1110
1100
1090
1080
1070
1060

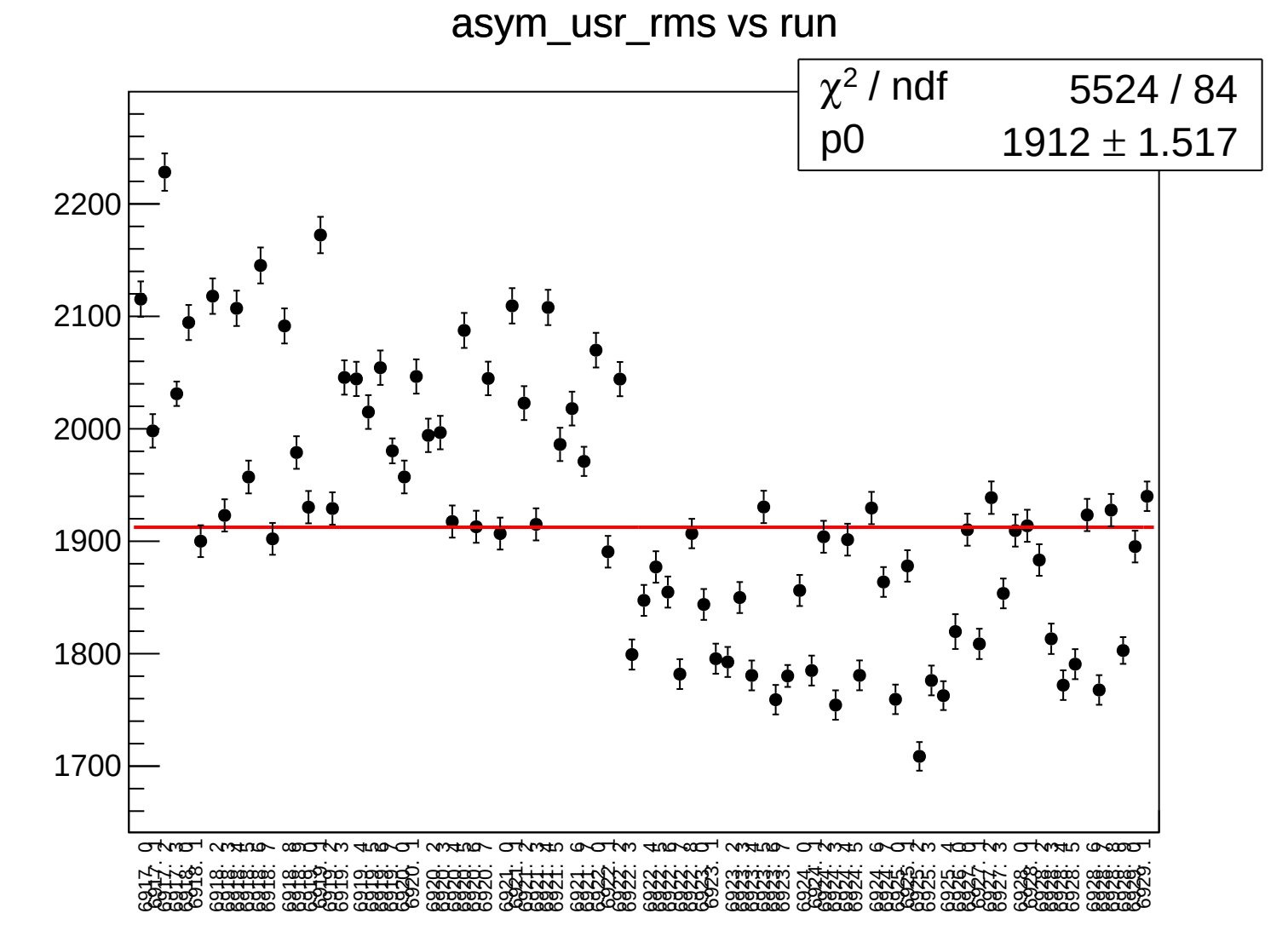

asym_usr_correction_mean vs run
χ² / ndf 46.45 / 84
p0 328.1 ± 1751
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −89.34
Std Dev 149.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

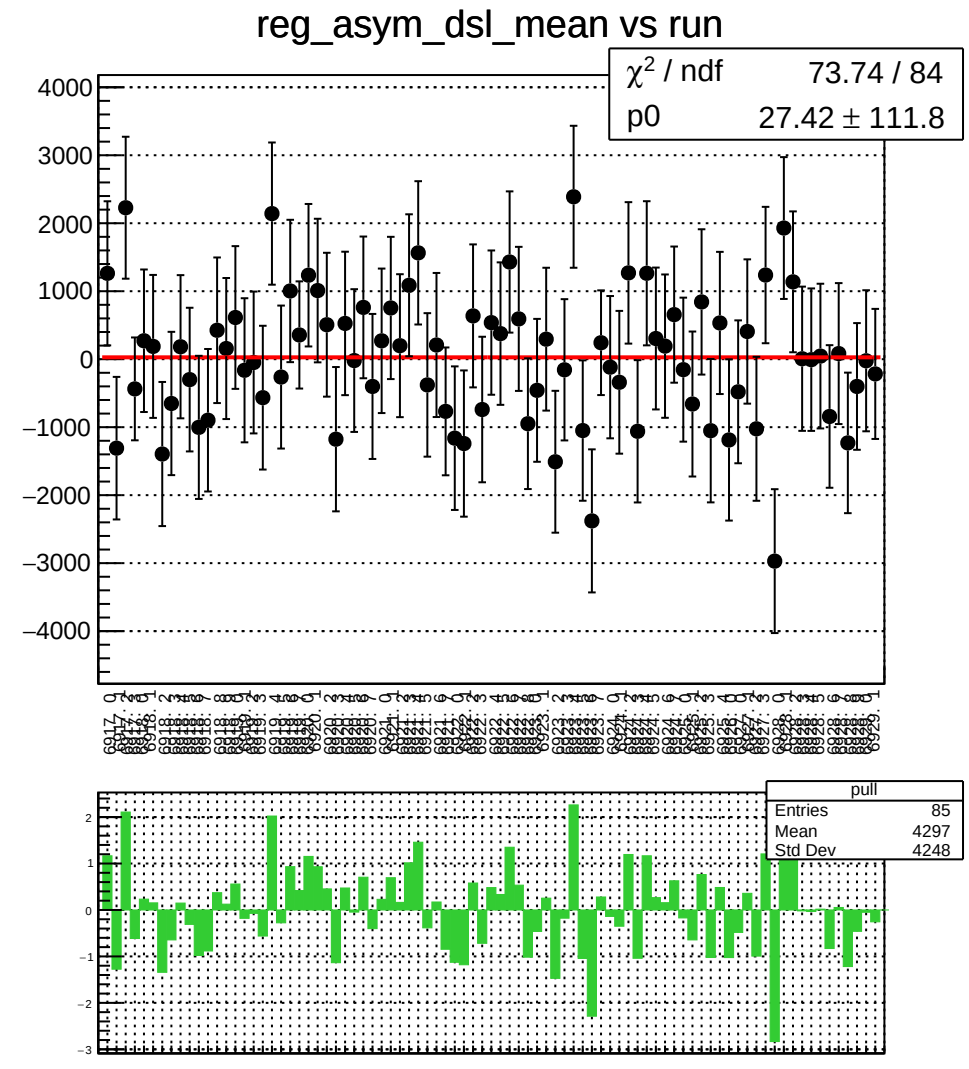

pull1D
Entries 85
Mean −0.002237
Std Dev 0.7392
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

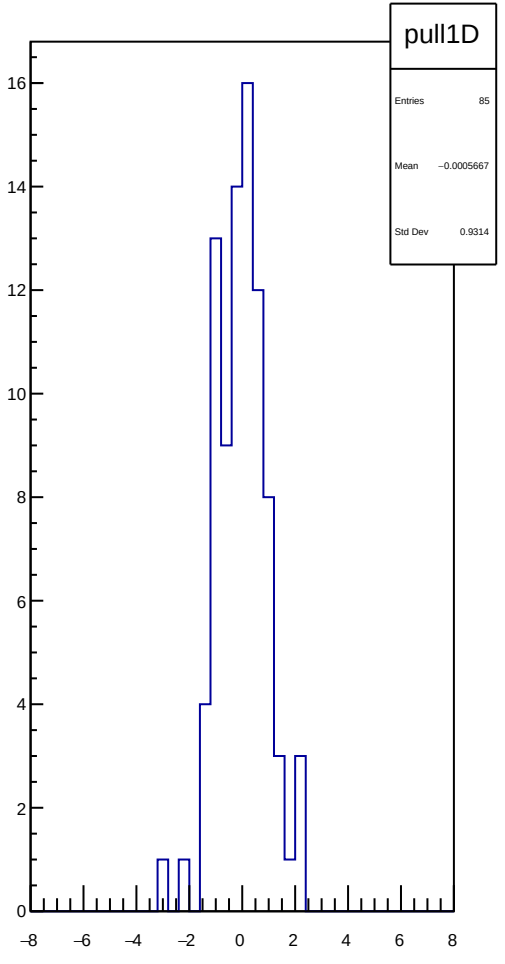

asym_usr_correction_rms vs run
χ² / ndf 1.197e+04 / 84
p0 1558 ± 1.238
2000
1900
1800
1700
1600
1500
1400
1300

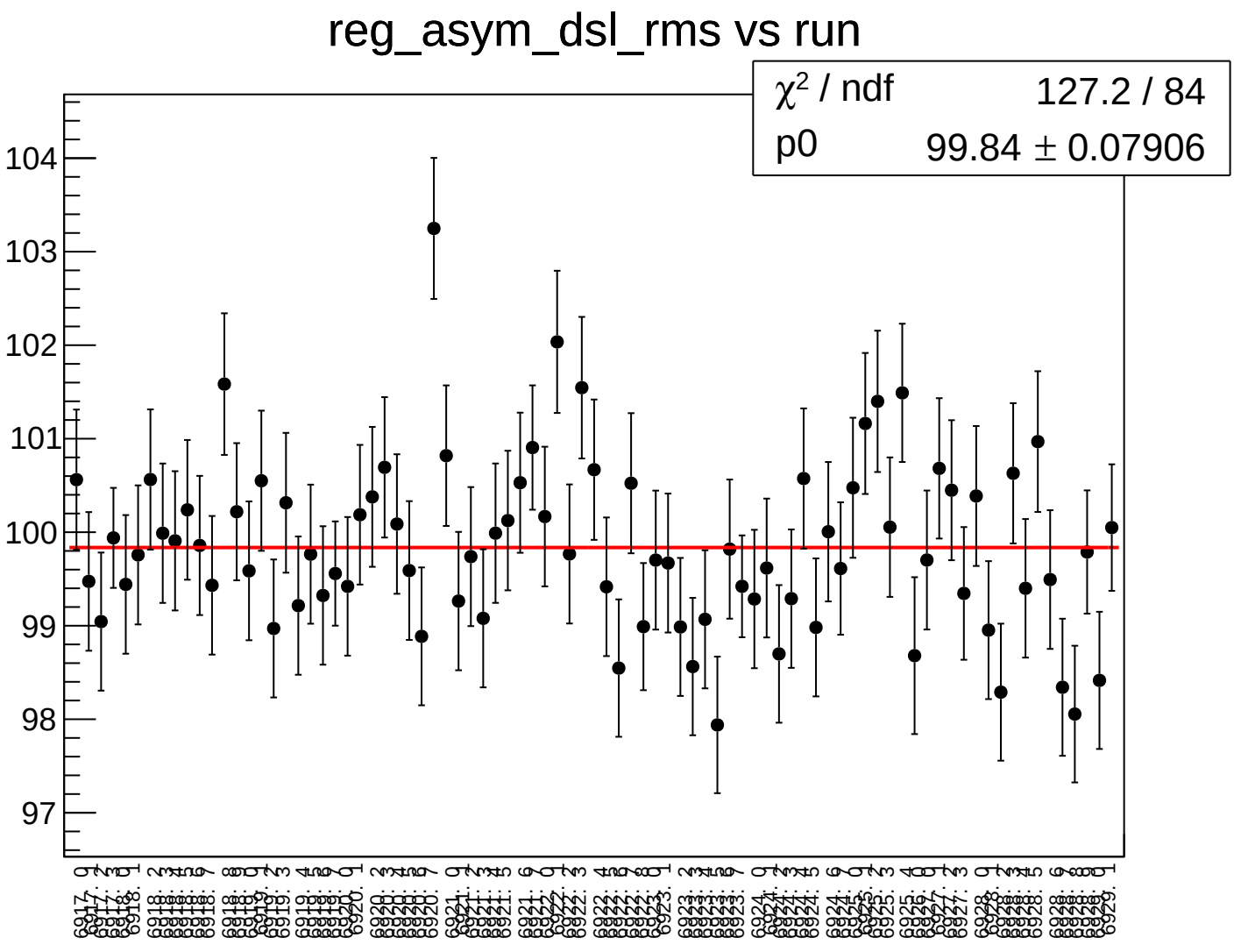

asym_usr_mean vs run
χ² / ndf 52.66 / 84
p0 2266 ± 2145
pull
Entries 85
Mean 7.233
Std Dev 16.2

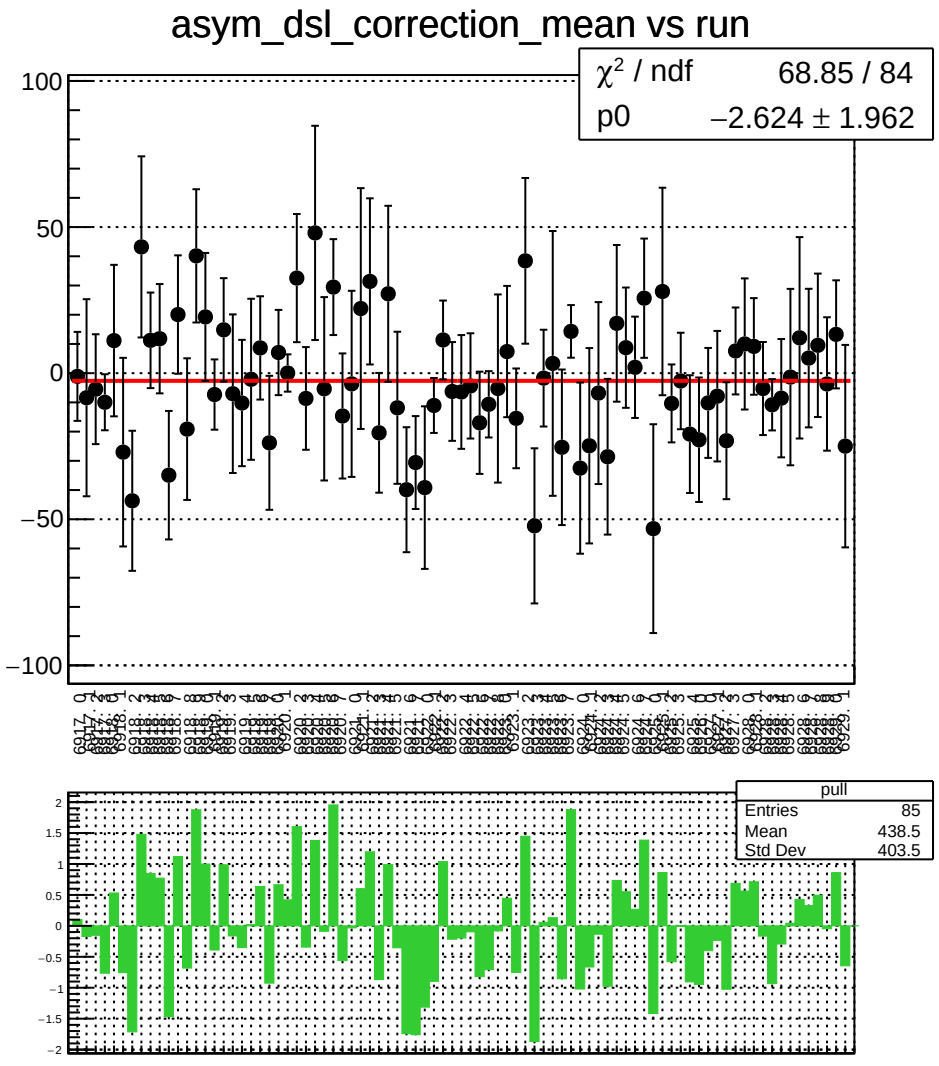

pull1D
Entries 85
Mean 0.005399
Std Dev 0.7871

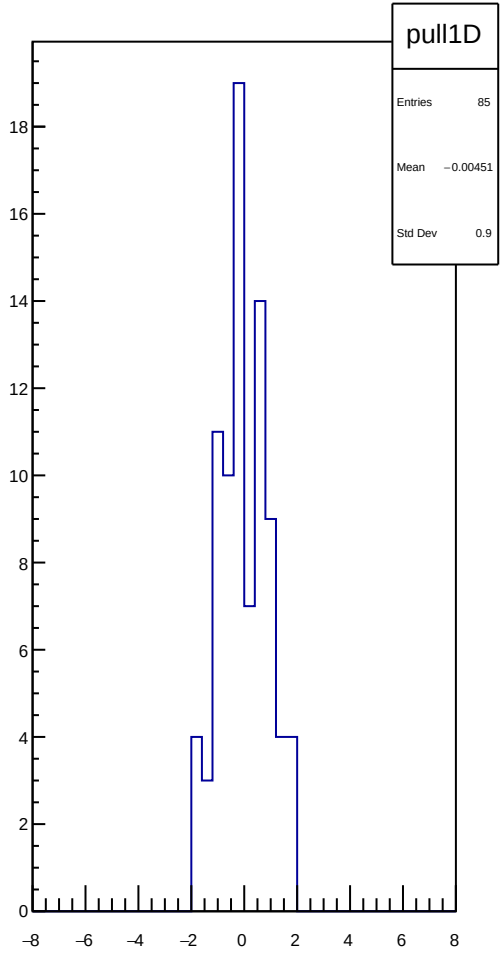

asym_usr_rms vs run
χ² / ndf 5524 / 84
p0 1912 ± 1.517
2200
2100
2000
1900
1800
1700

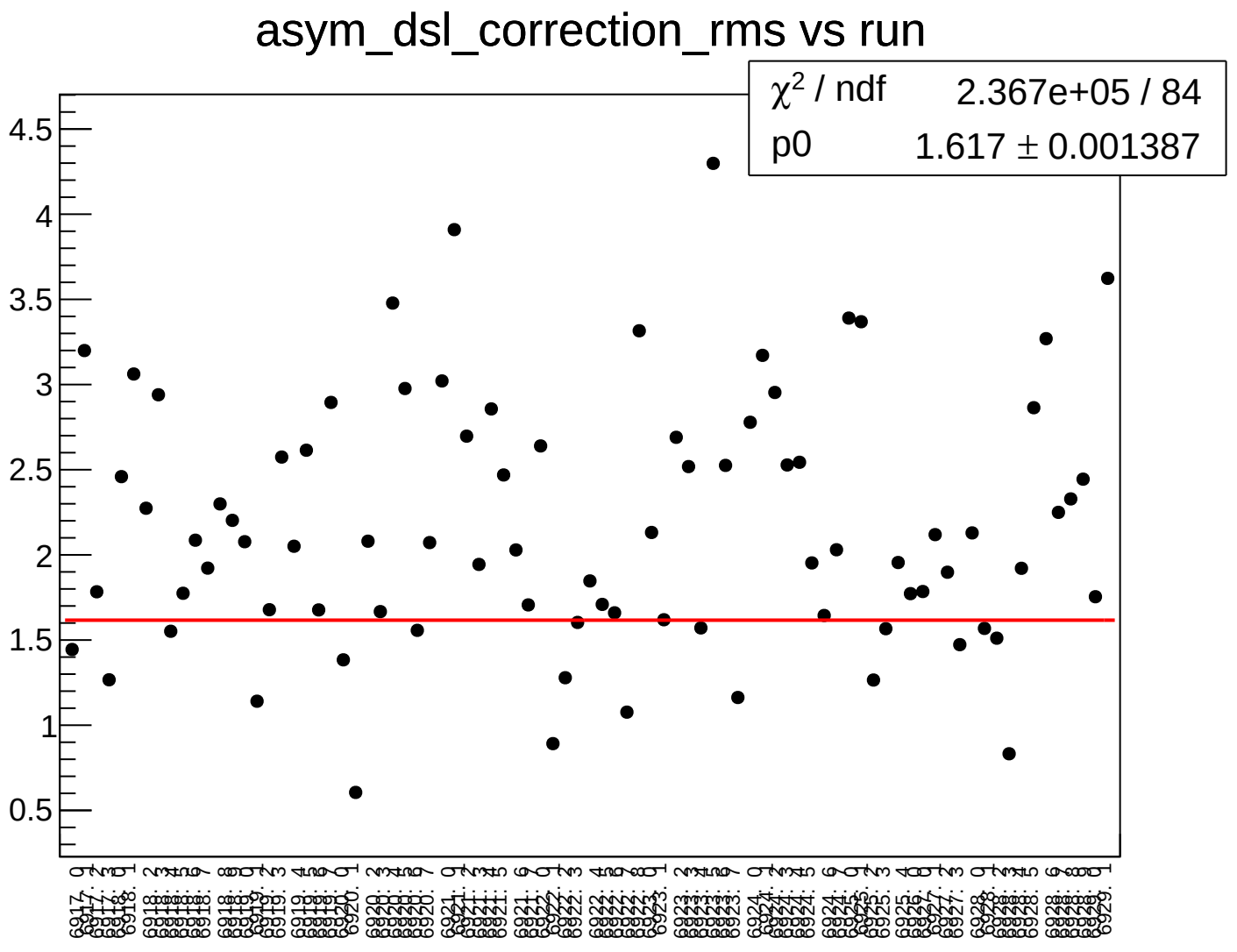

reg_asym_dsl_mean vs run
χ² / ndf 73.74 / 84
p0 27.42 ± 111.8
pull
Entries 85
Mean 4297
Std Dev 4248

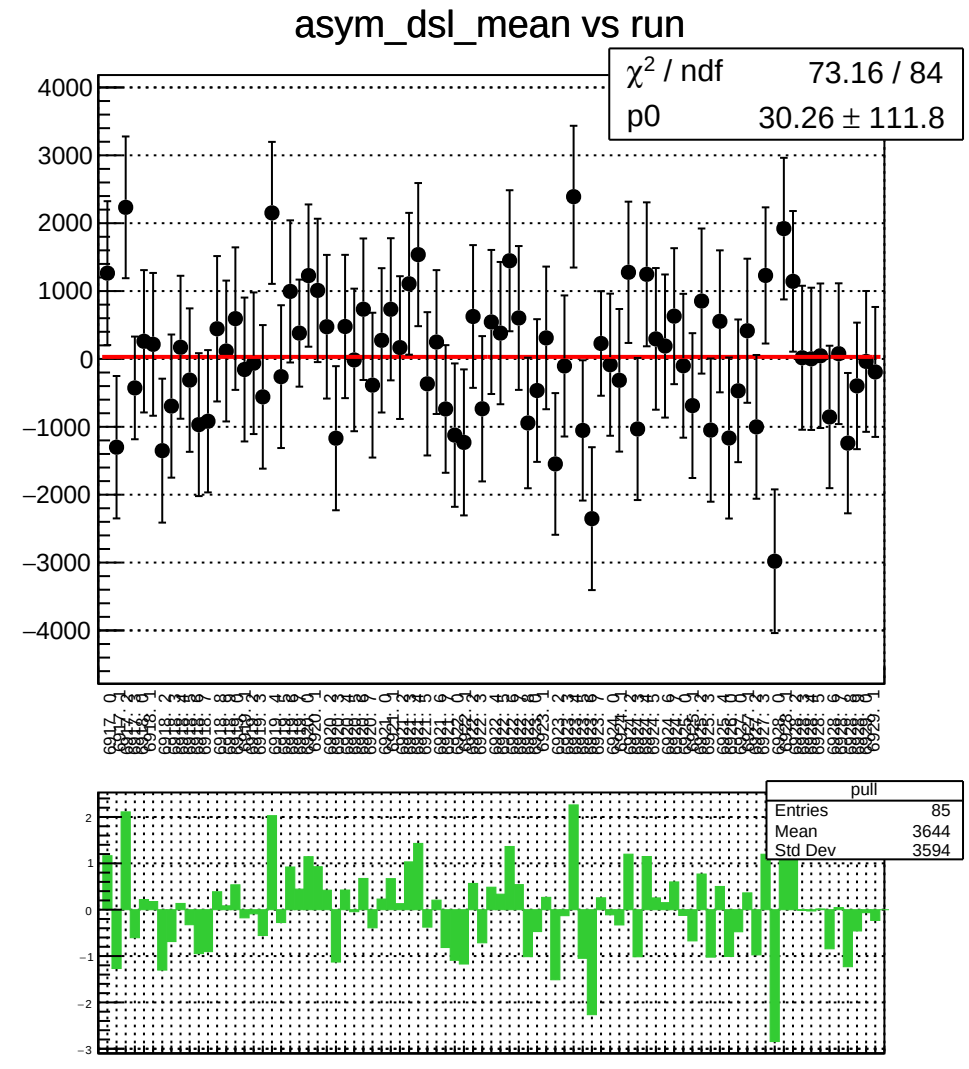

pull1D
Entries 85
Mean −0.0005667
Std Dev 0.9314

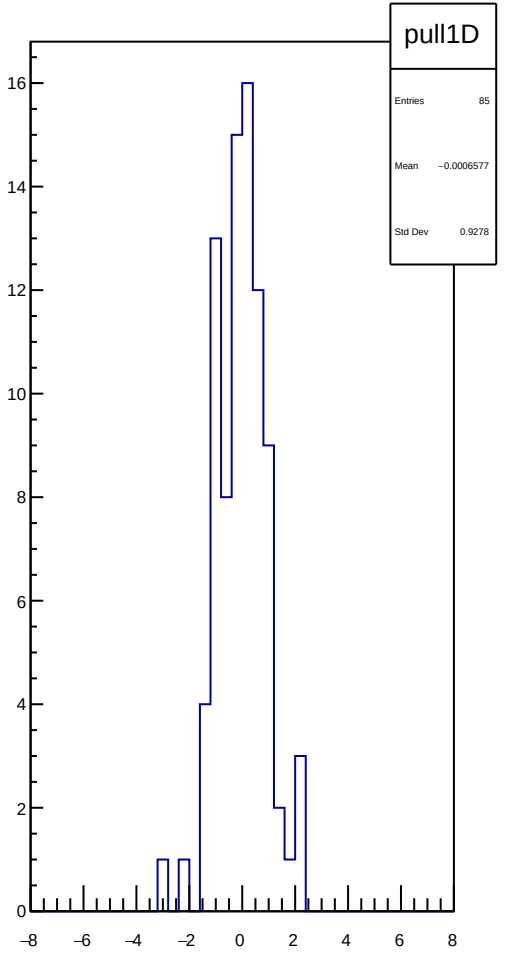

reg_asym_dsl_rms vs run
χ² / ndf 127.2 / 84
p0 99.84 ± 0.07906
104
103
102
101
100
99
98
97

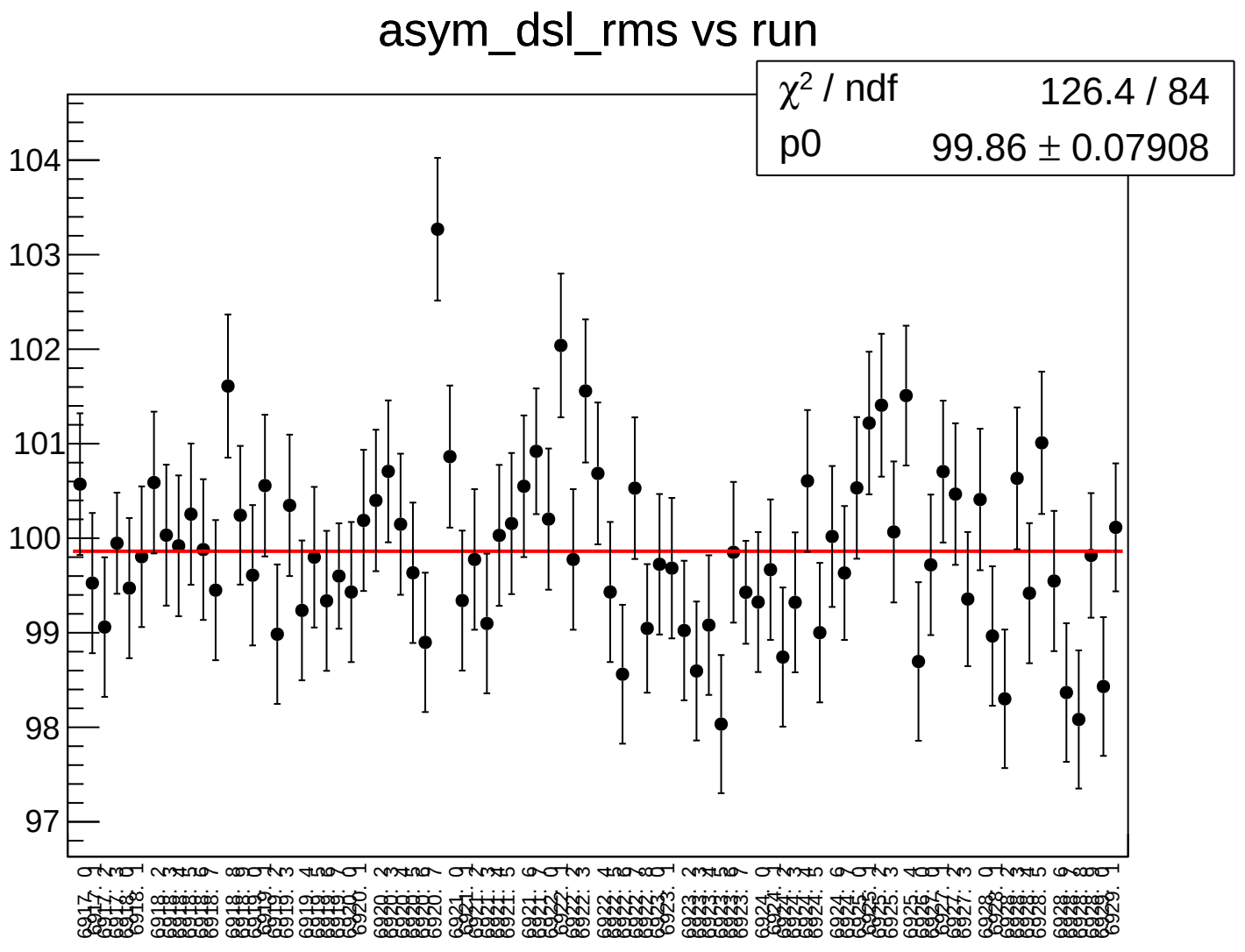

asym_dsl_correction_mean vs run
χ² / ndf 68.85 / 84
p0 −2.624 ± 1.962
pull
Entries 85
Mean 438.5
Std Dev 403.5

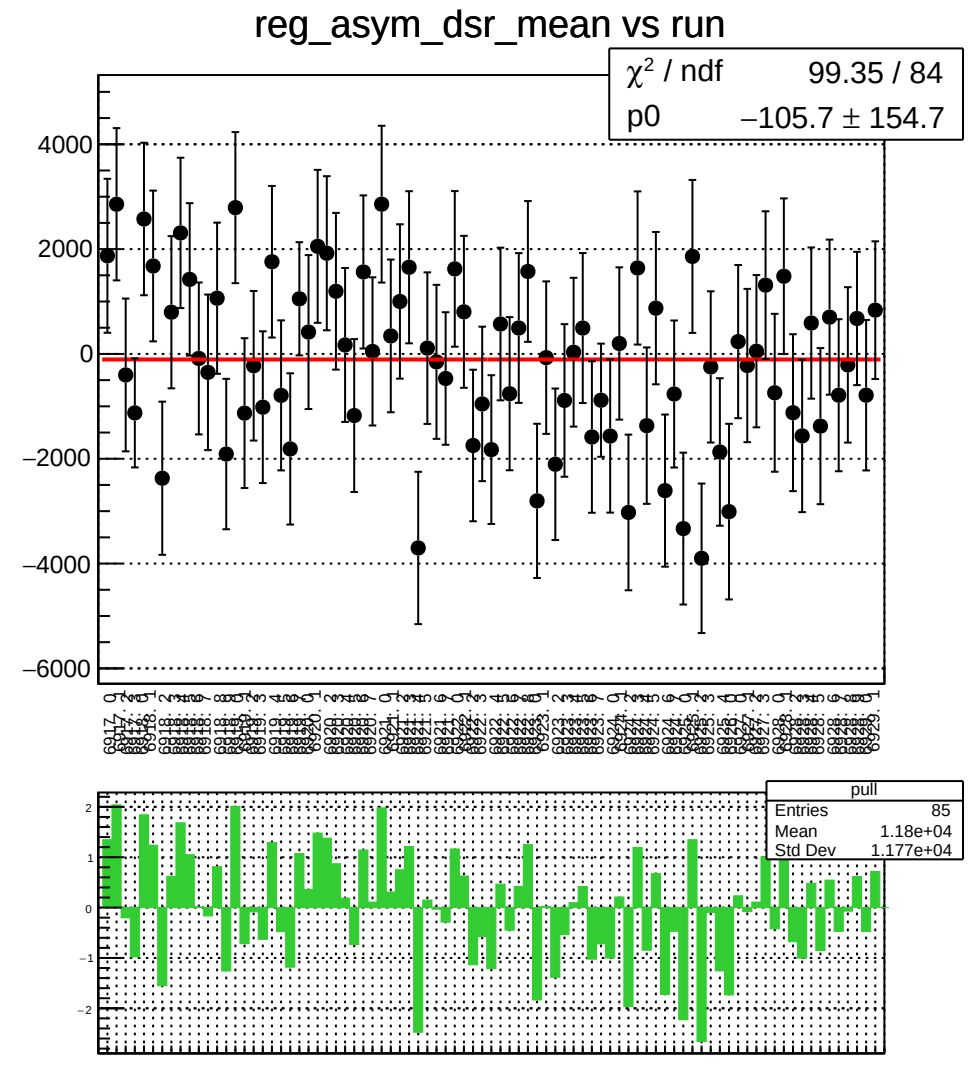

pull1D
Entries 85
Mean −0.00451
Std Dev 0.9

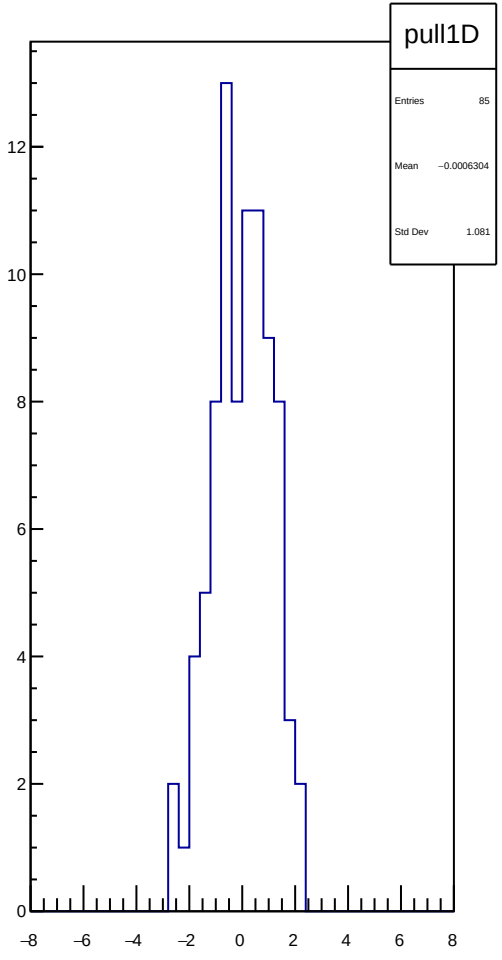

asym_dsl_correction_rms vs run
χ^2 / ndf 2.367e+05 / 84
p0 1.617 ± 0.001387
4.5
4
3.5
3
2.5
2
1.5
1
0.5

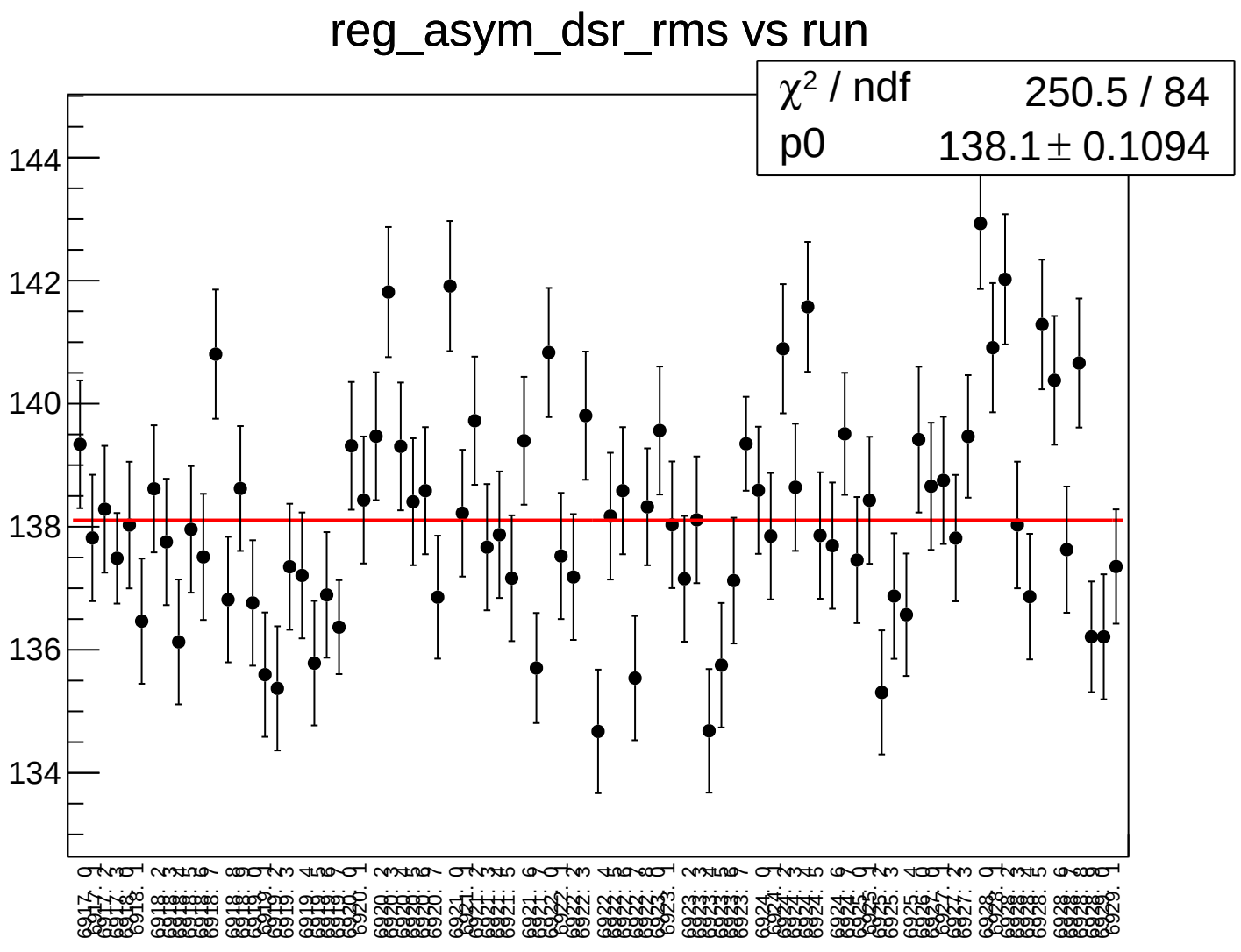

asym_dsl_mean vs run
χ² / ndf 73.16 / 84
p0 30.26 ± 111.8
pull
Entries 85
Mean 3644
Std Dev 3594

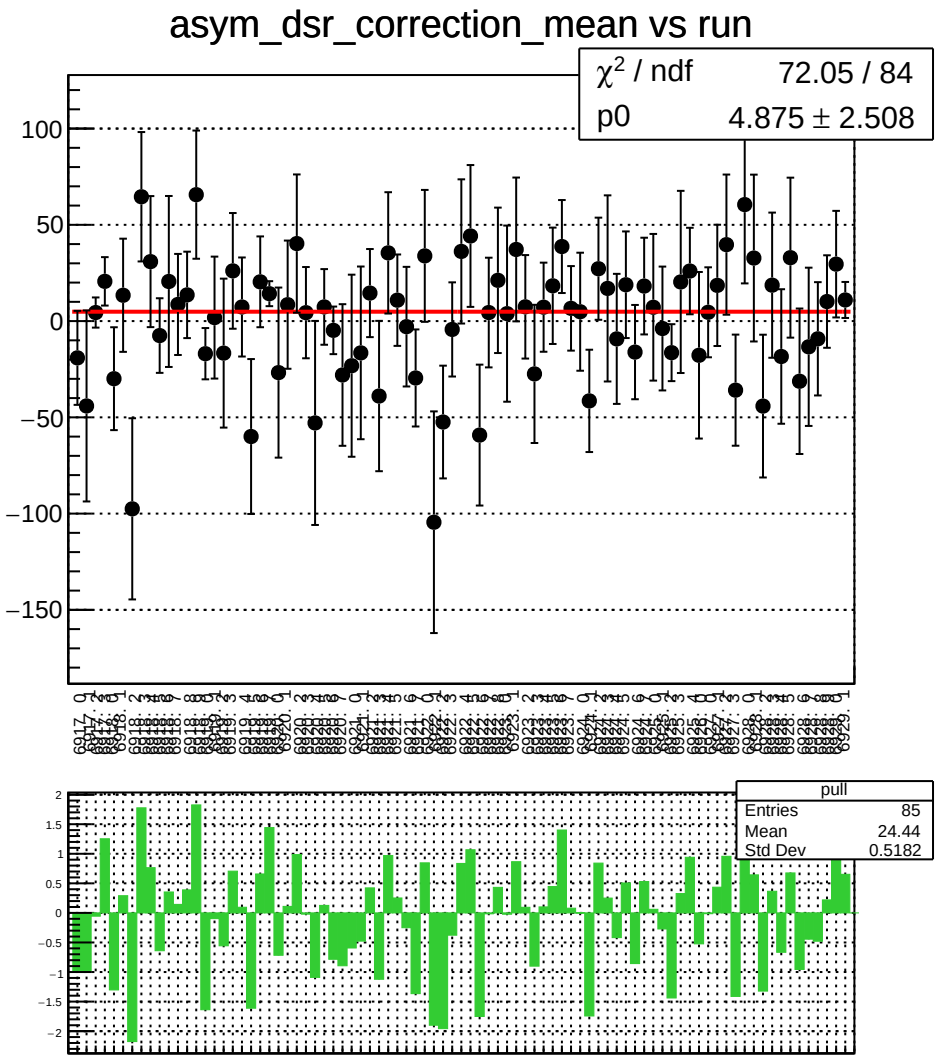

pull1D
Entries 85
Mean −0.0006577
Std Dev 0.9278

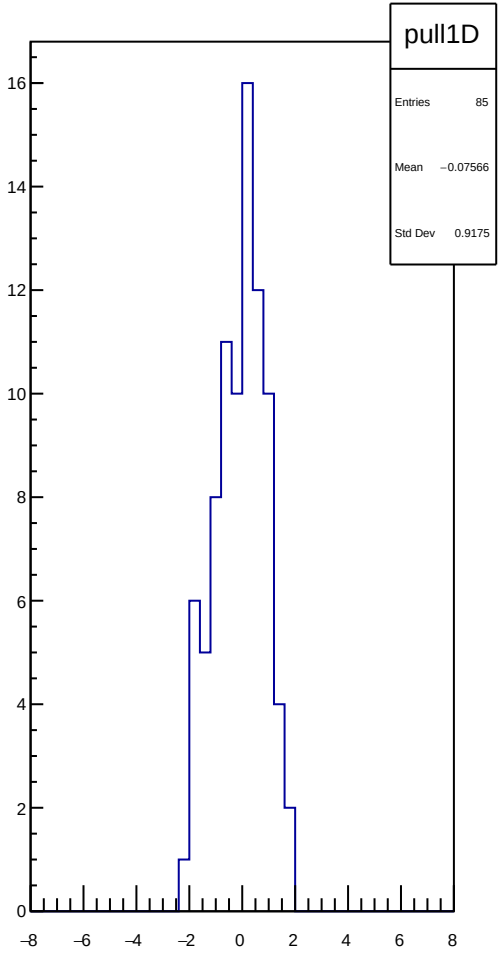

asym_dsl_rms vs run
χ^2 / ndf 126.4 / 84
p0 99.86 ± 0.07908
104
103
102
101
100
99
98
97


reg_asym_dsr_mean vs run
χ² / ndf 99.35 / 84
p0 −105.7 ± 154.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 1.18e+04
Std Dev 1.177e+04
2
1
0
−1
−2

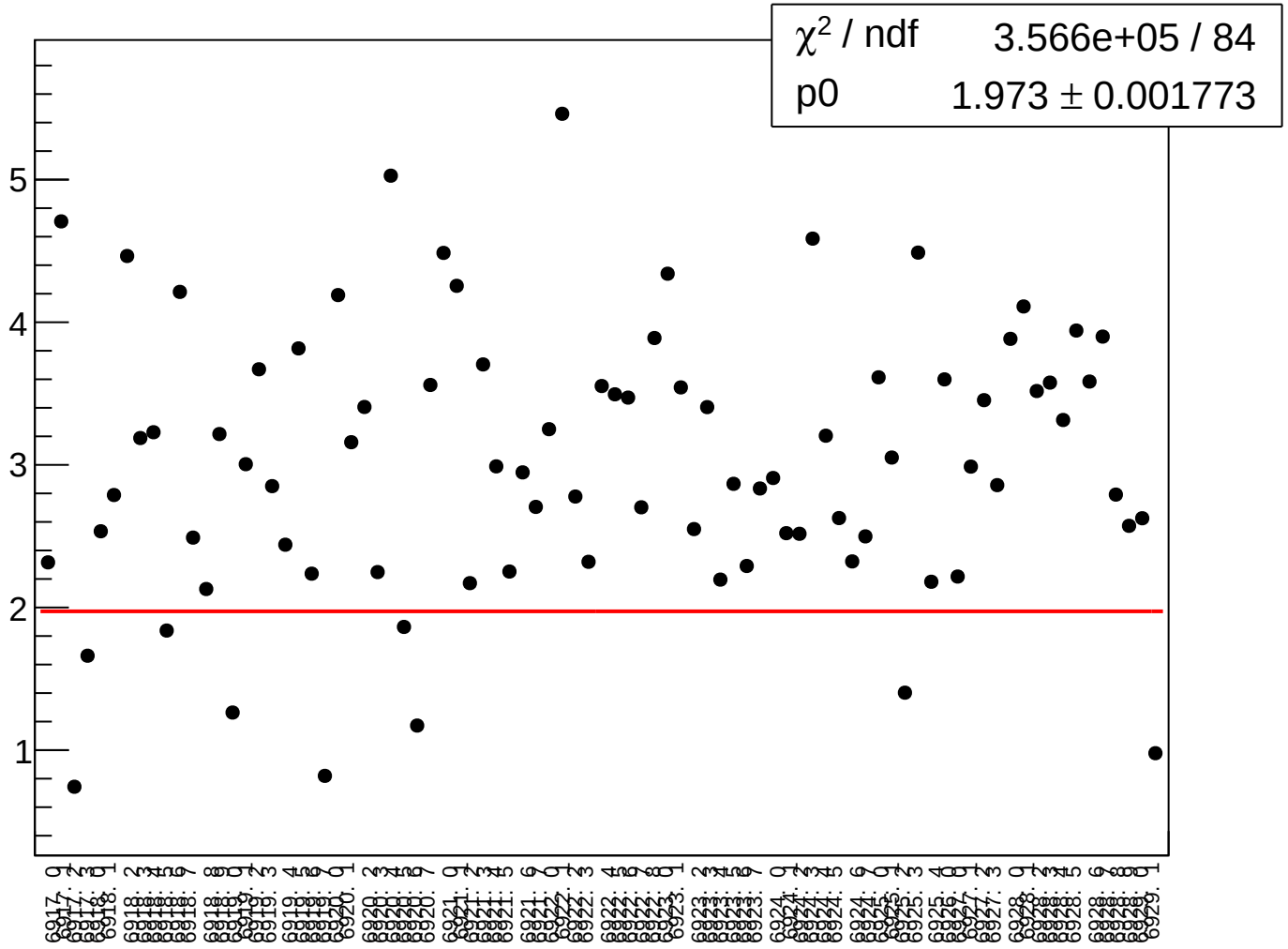

pull1D
Entries 85
Mean −0.0006304
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

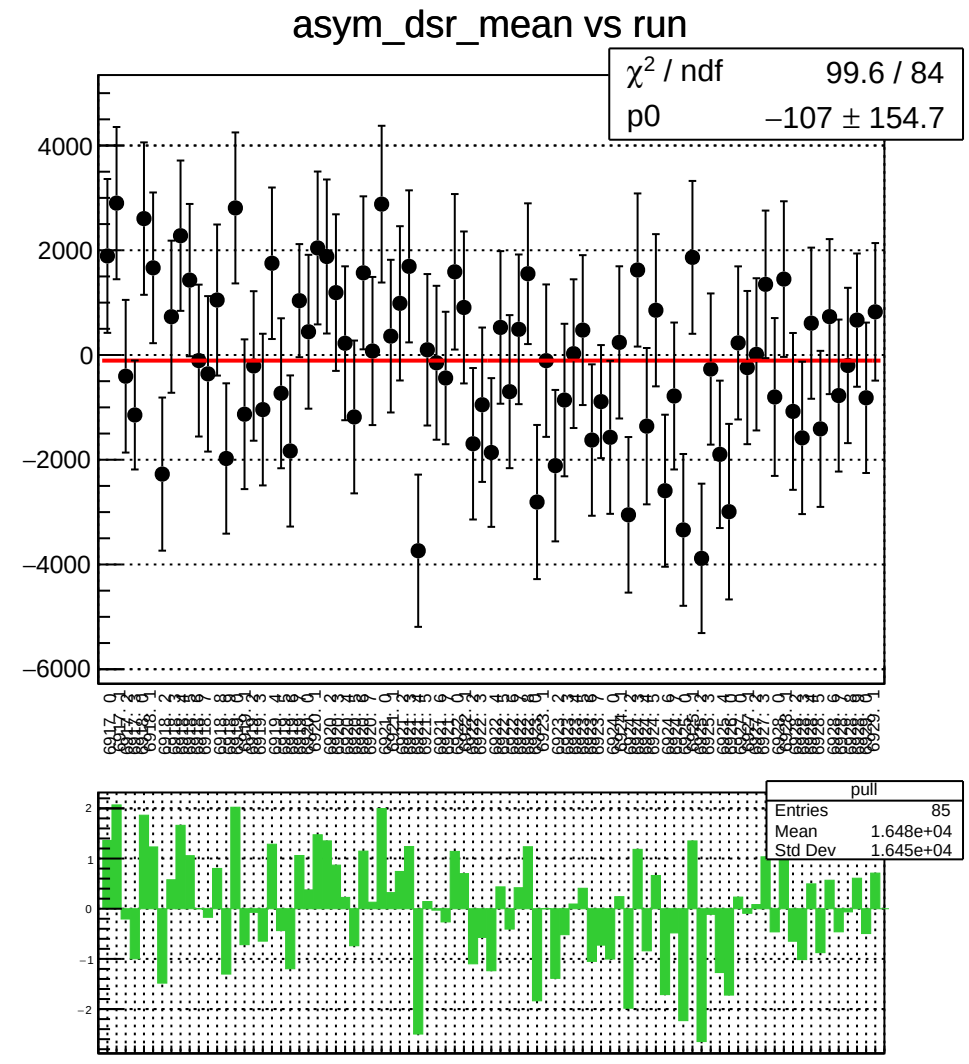

reg_asym_dsr_rms vs run
χ² / ndf 250.5 / 84
p0 138.1 ± 0.1094
144
142
140
138
136
134

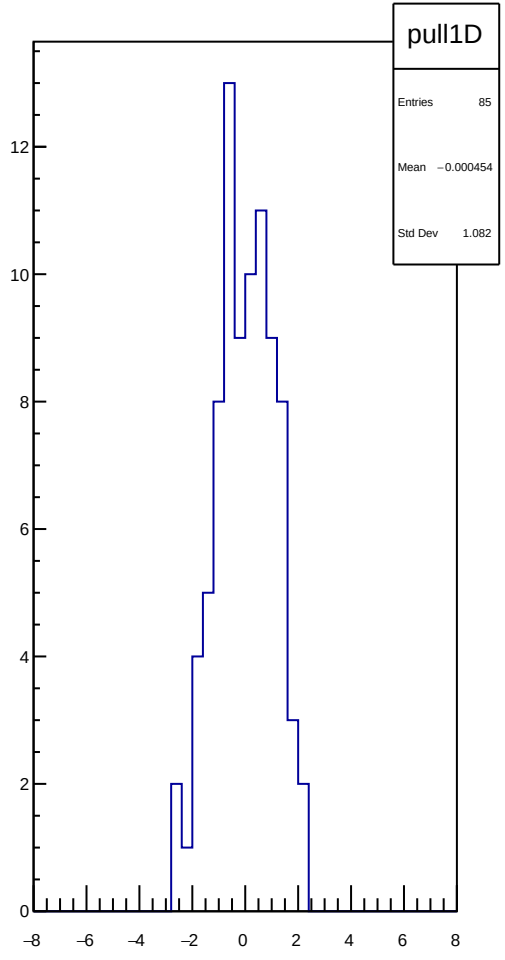

asym_dsr_correction_mean vs run
χ² / ndf 72.05 / 84
p0 4.875 ± 2.508
pull
Entries 85
Mean 24.44
Std Dev 0.5182

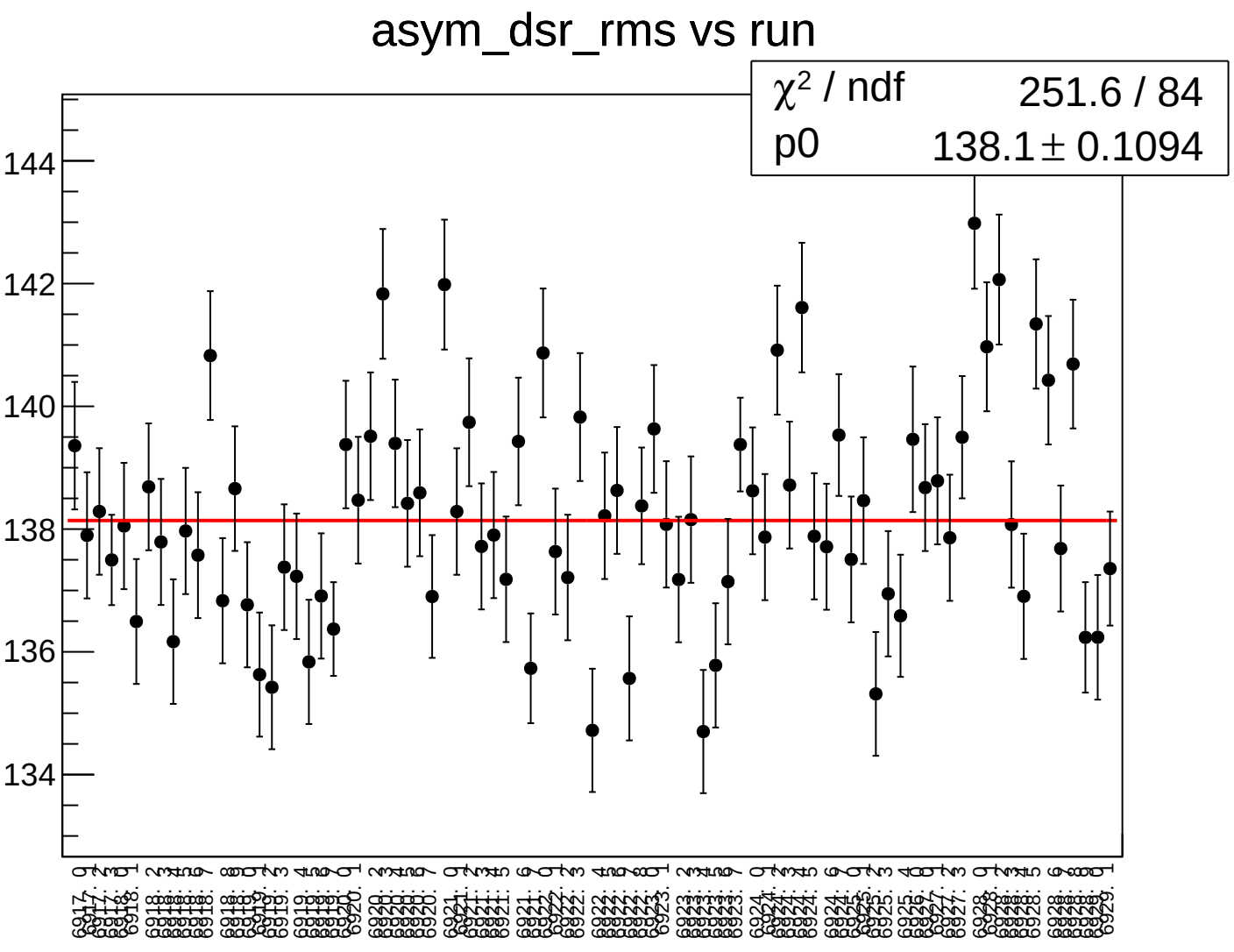

pull1D
Entries 85
Mean −0.07566
Std Dev 0.9175

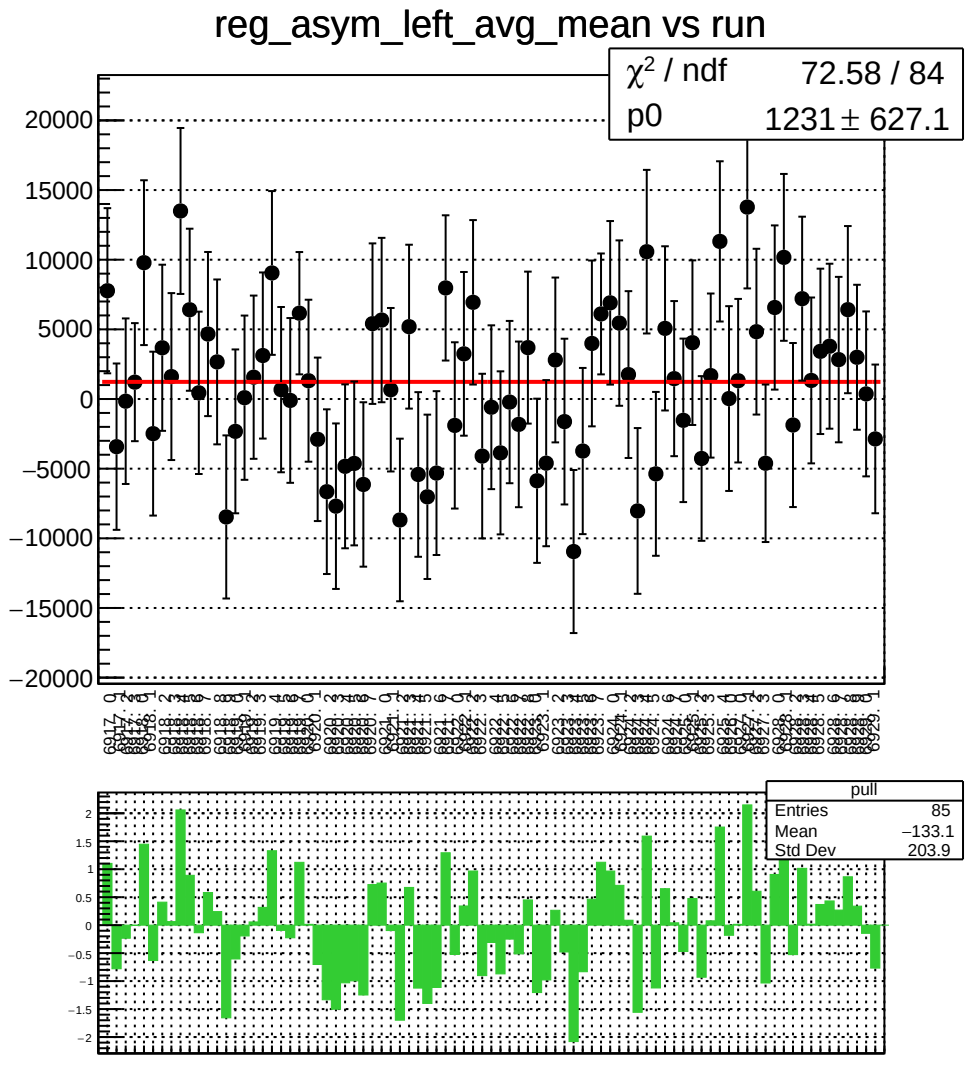
asym_dsr_correction_rms vs run

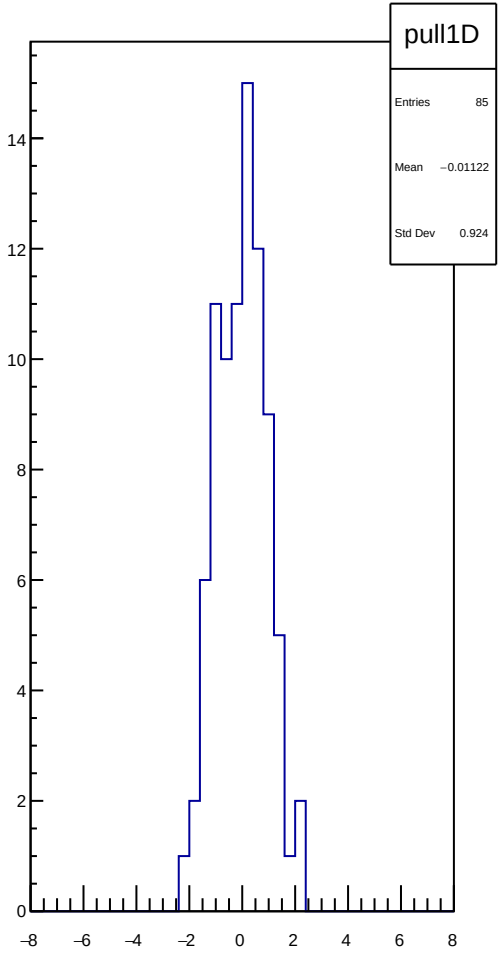


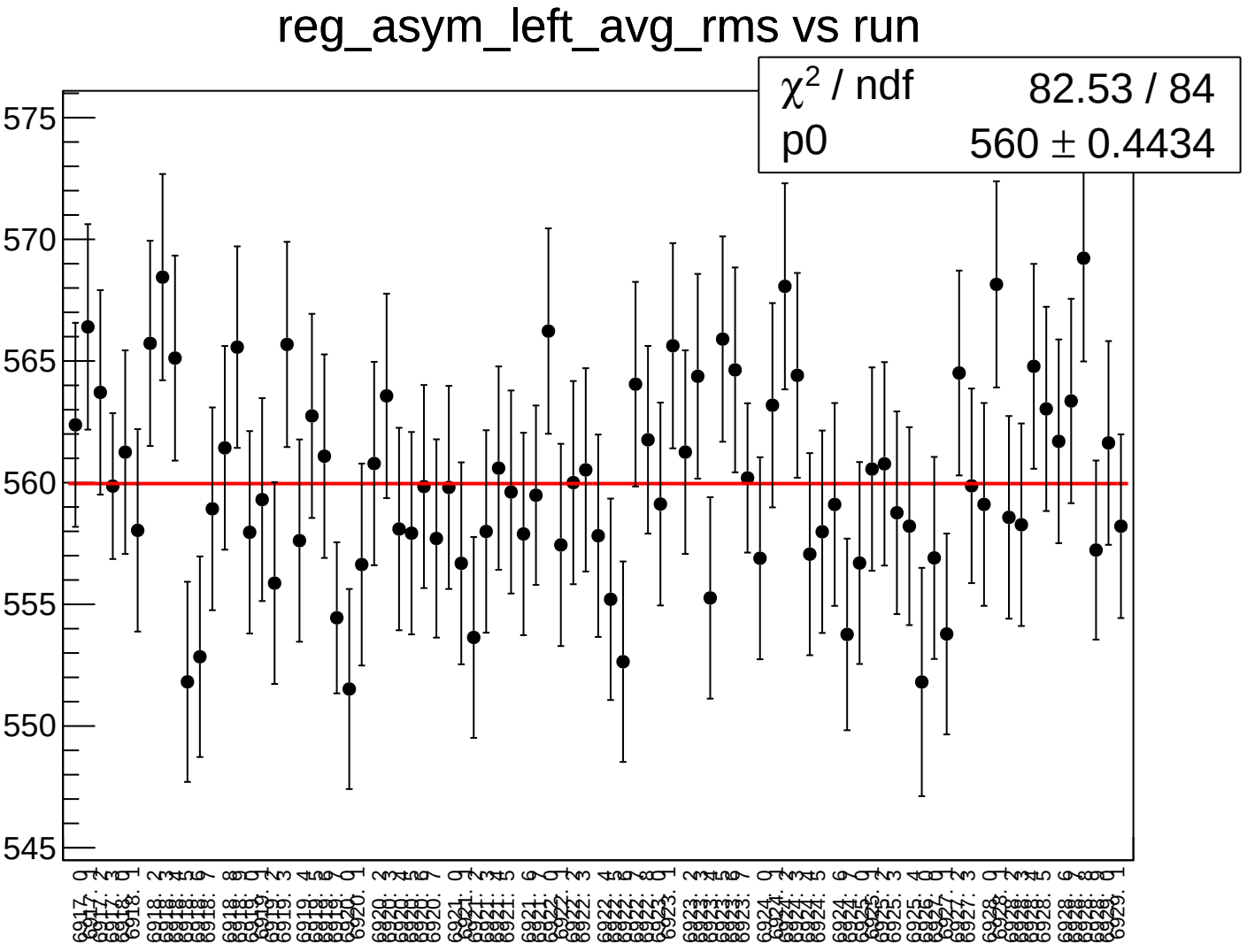

asym_dsr_mean vs run
χ² / ndf 99.6 / 84
p0 −107 ± 154.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 1.648e+04
Std Dev 1.645e+04
2
1
0
−1
−2

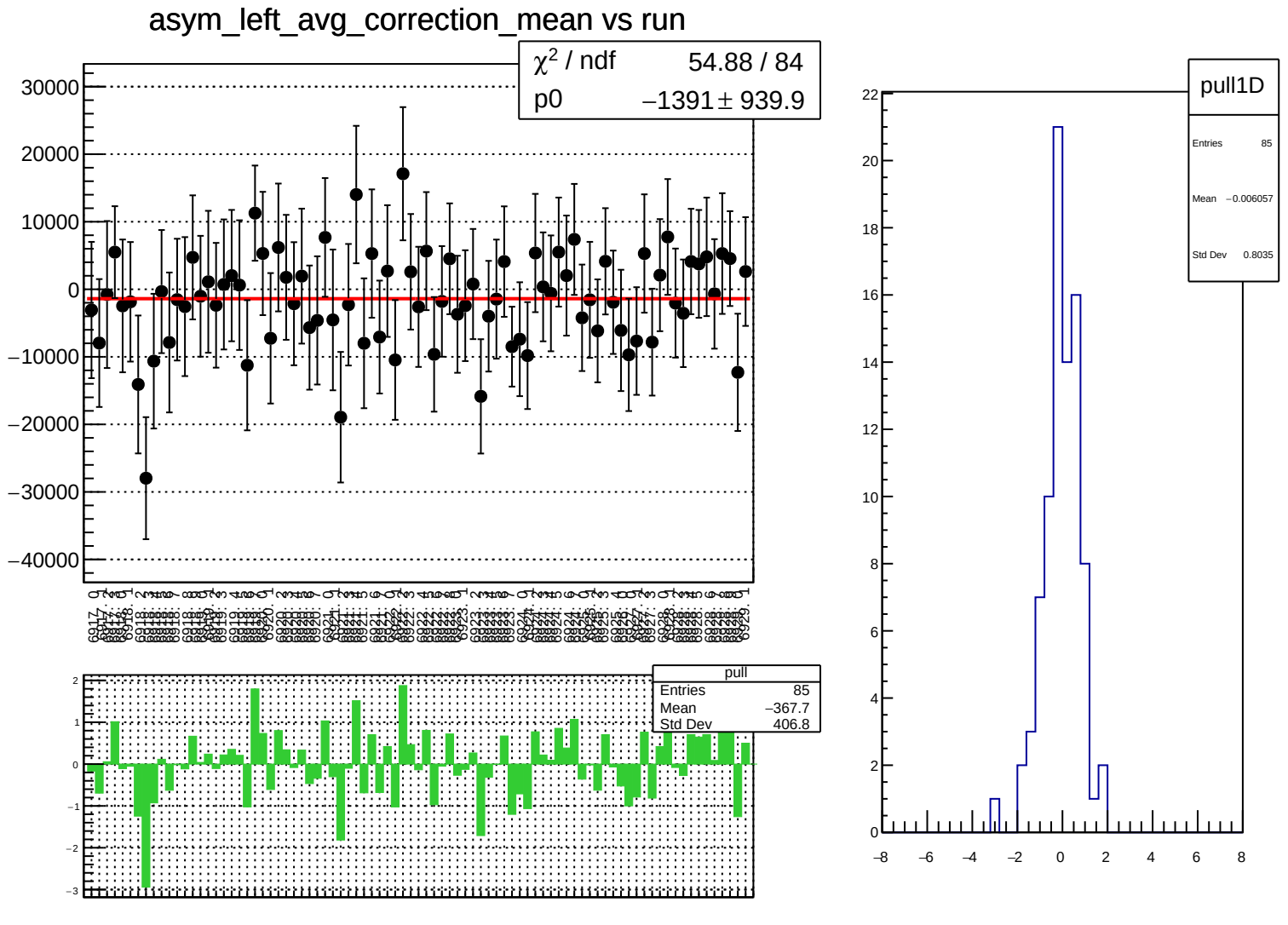

pull1D
Entries 85
Mean −0.000454
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

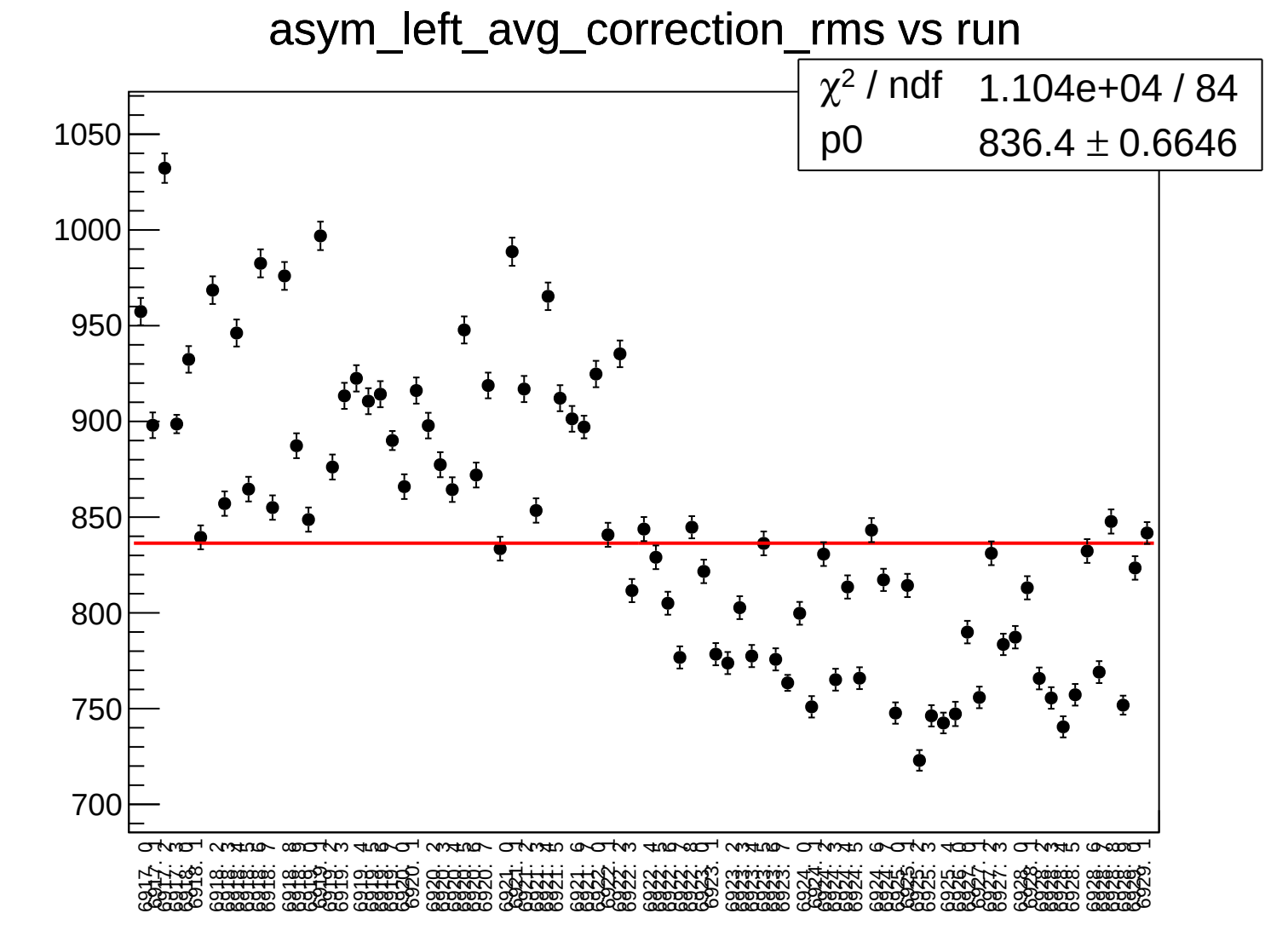

asym_dsr_rms vs run
χ² / ndf 251.6 / 84
p0 138.1 ± 0.1094
144
142
140
138
136
134

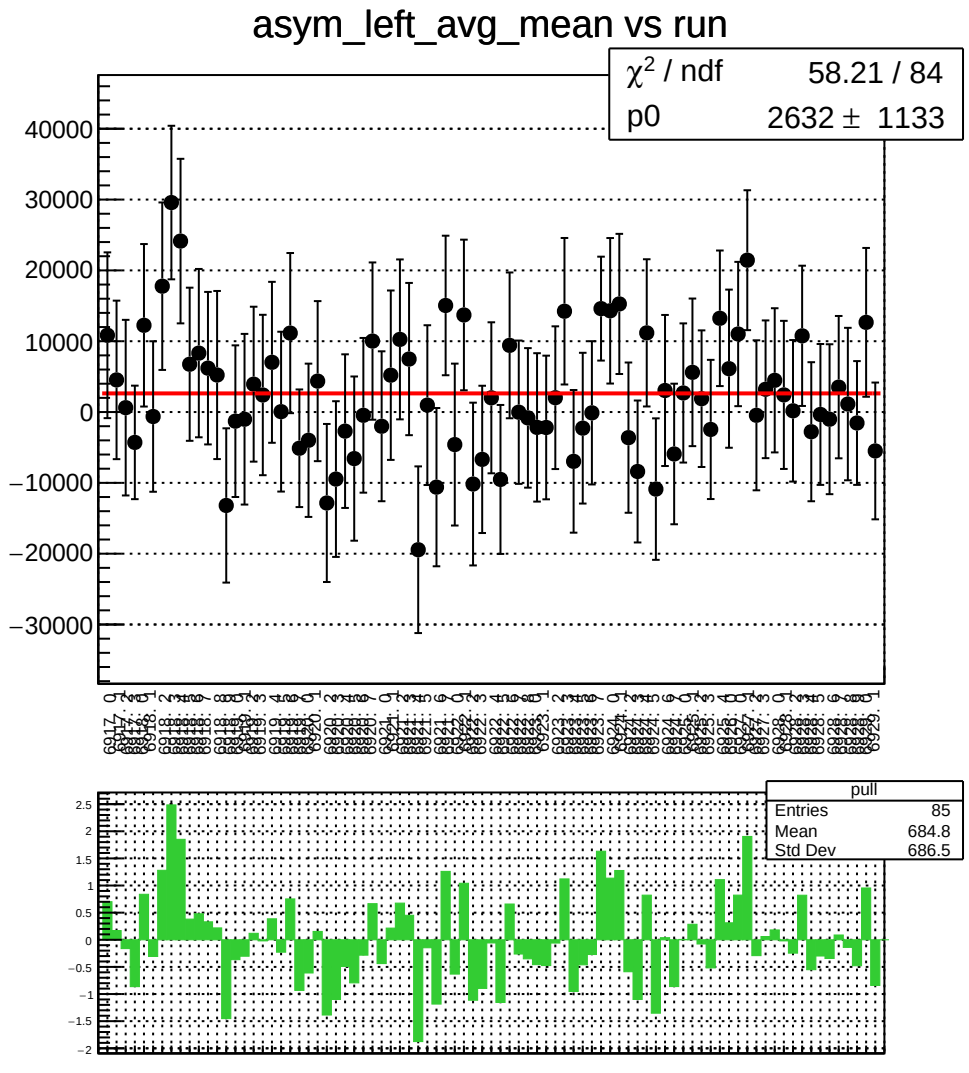

reg_asym_left_avg_mean vs run
χ² / ndf 72.58 / 84
p0 1231 ± 627.1
pull
Entries 85
Mean −133.1
Std Dev 203.9

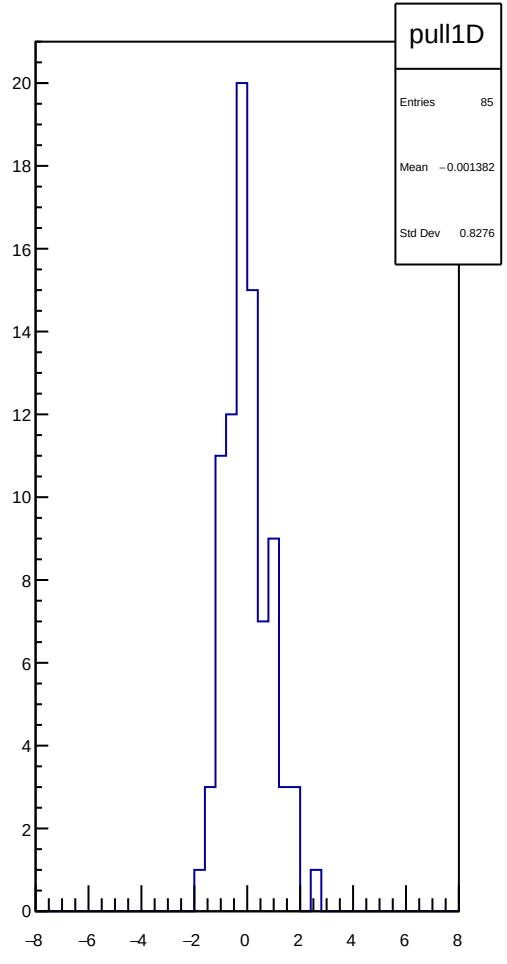

pull1D
Entries 85
Mean −0.01122
Std Dev 0.924

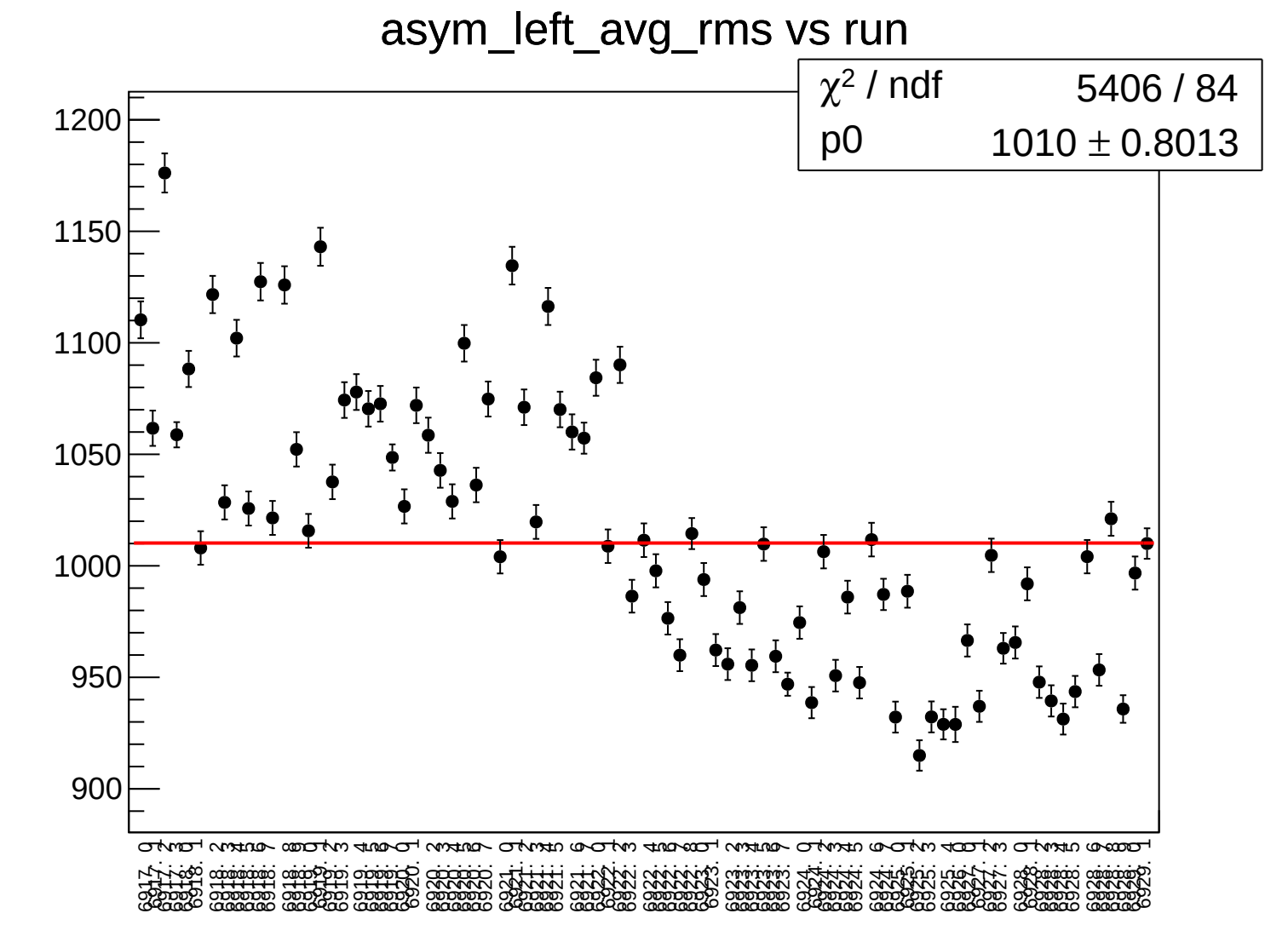

reg_asym_left_avg_rms vs run
χ^2 / ndf 82.53 / 84
p0 560 ± 0.4434
575
570
565
560
555
550
545

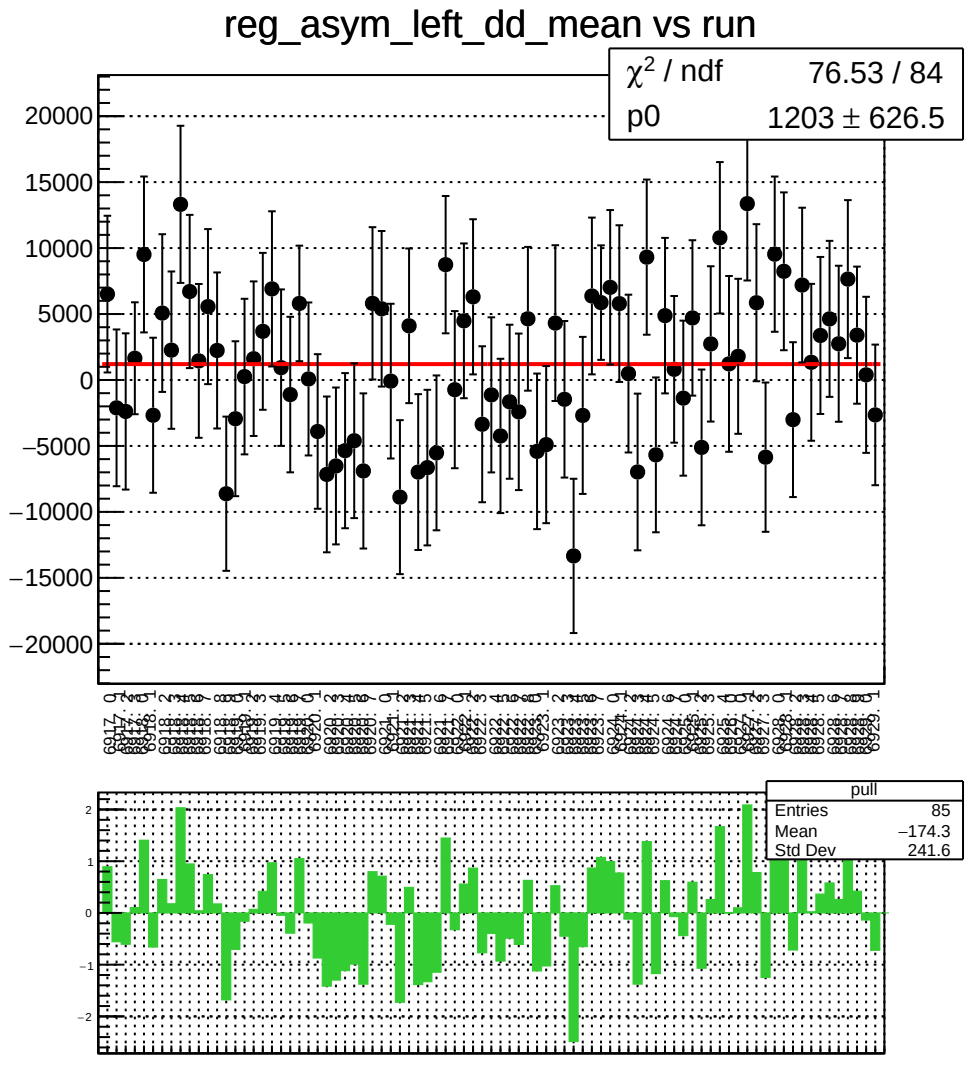

asym_left_avg_correction_mean vs run
χ² / ndf 54.88 / 84
p0 −1391 ± 939.9
pull
Entries 85
Mean −367.7
Std Dev 406.8
pull1D
Entries 85
Mean −0.006057
Std Dev 0.8035

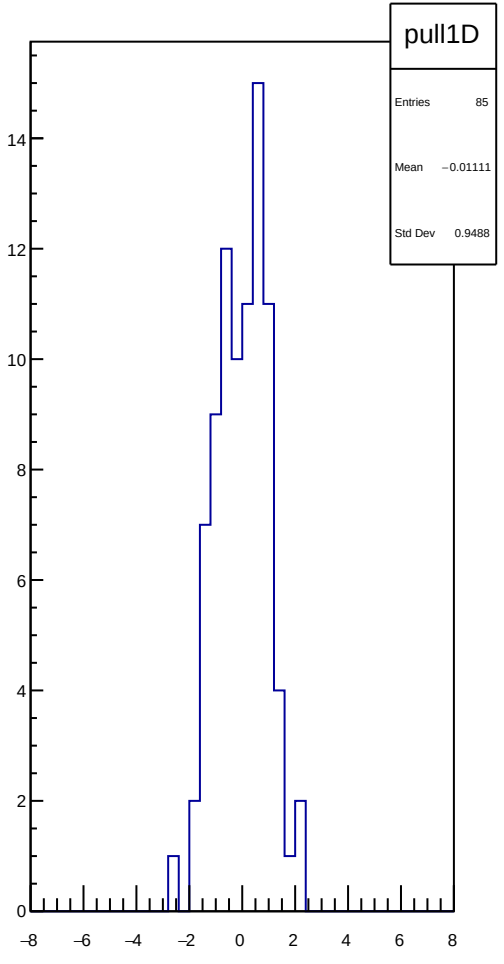

asym_left_avg_correction_rms vs run
χ² / ndf 1.104e+04 / 84
p0 836.4 ± 0.6646
1050
1000
950
900
850
800
750
700

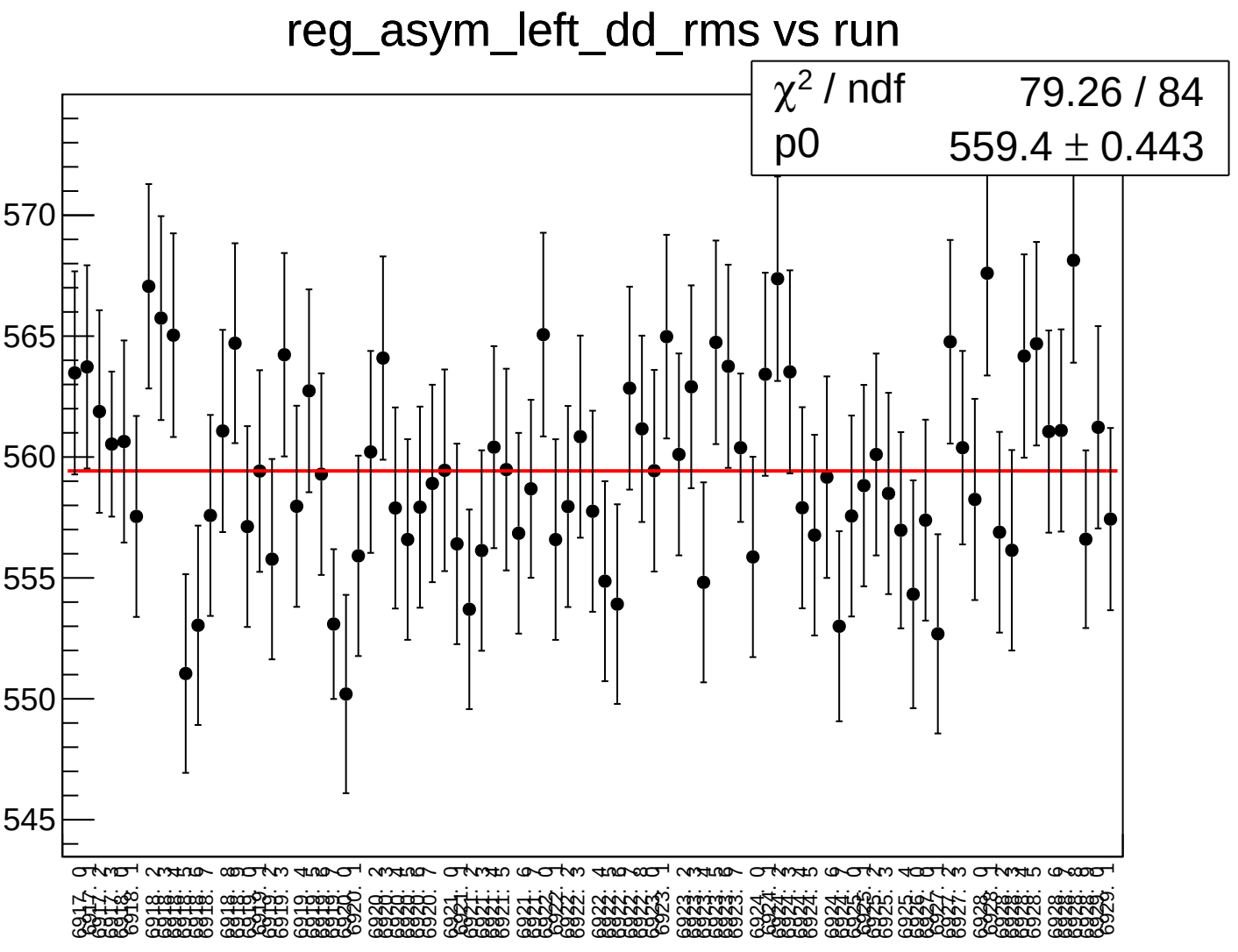

asym_left_avg_mean vs run
χ^2 / ndf 58.21 / 84
p0 2632 ± 1133
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 684.8
Std Dev 686.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

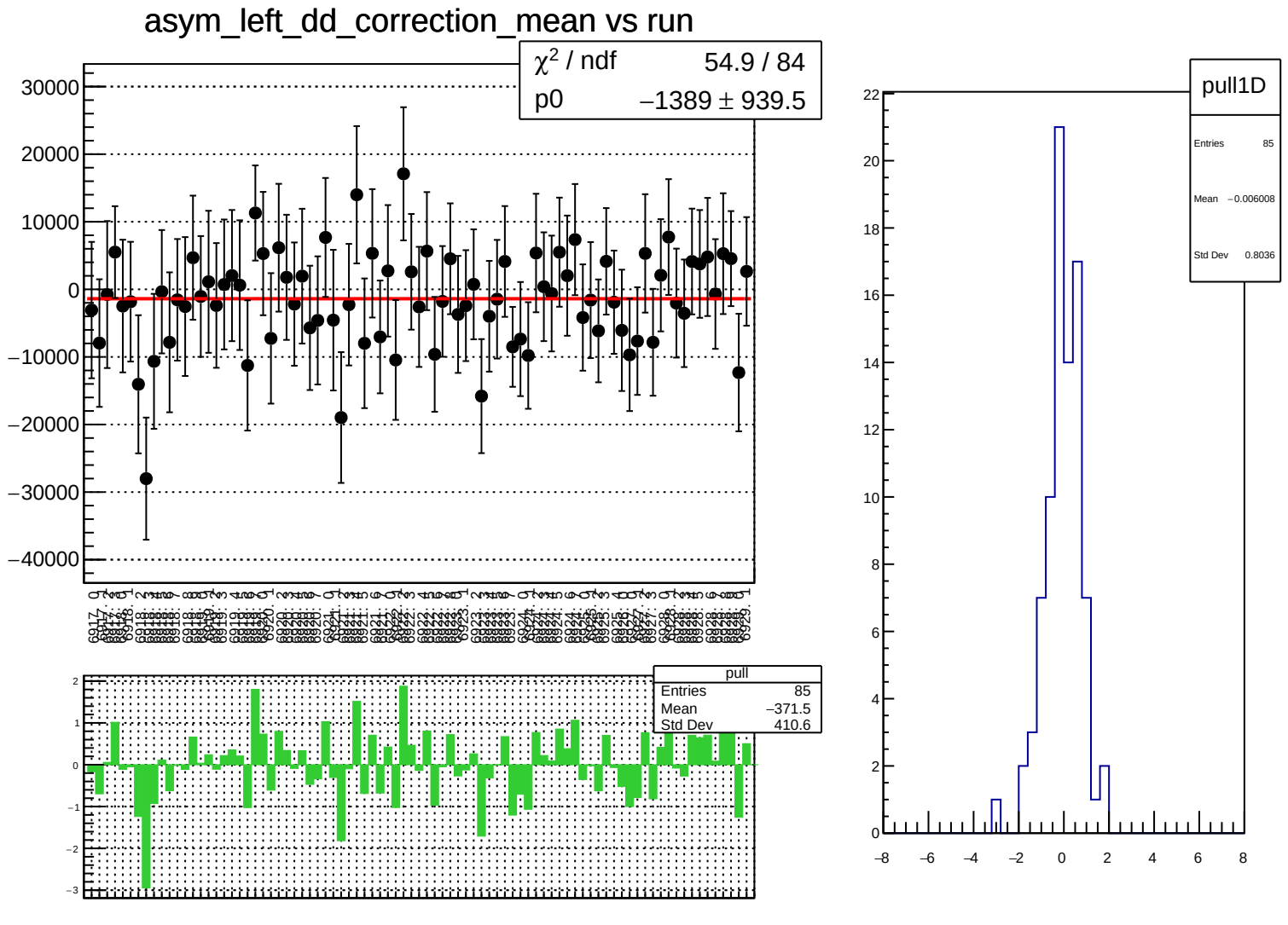

pull1D
Entries 85
Mean −0.001382
Std Dev 0.8276
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

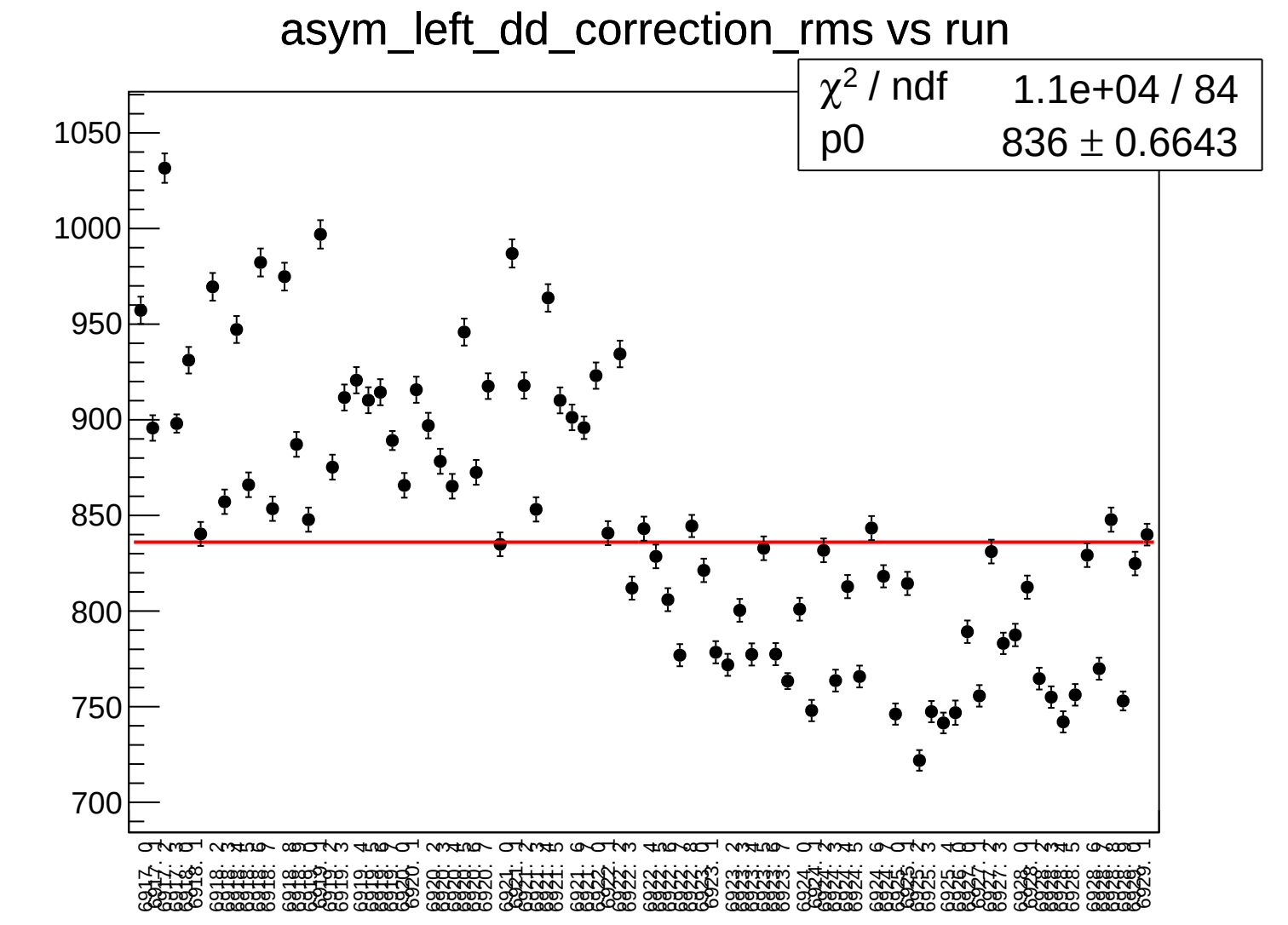

asym_left_avg_rms vs run
χ² / ndf 5406 / 84
p0 1010 ± 0.8013
1200
1150
1100
1050
1000
950
900

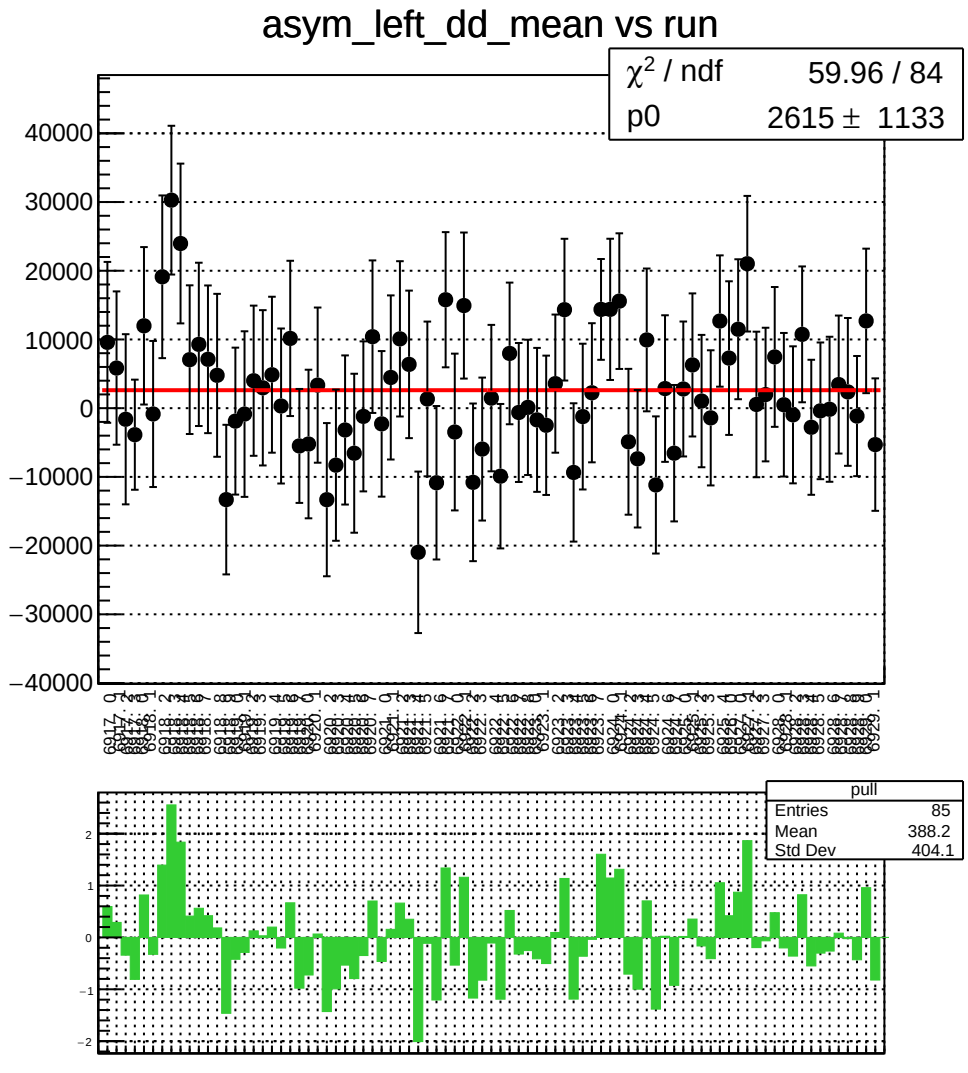

reg_asym_left_dd_mean vs run
χ² / ndf 76.53 / 84
p0 1203 ± 626.5
pull
Entries 85
Mean −174.3
Std Dev 241.6

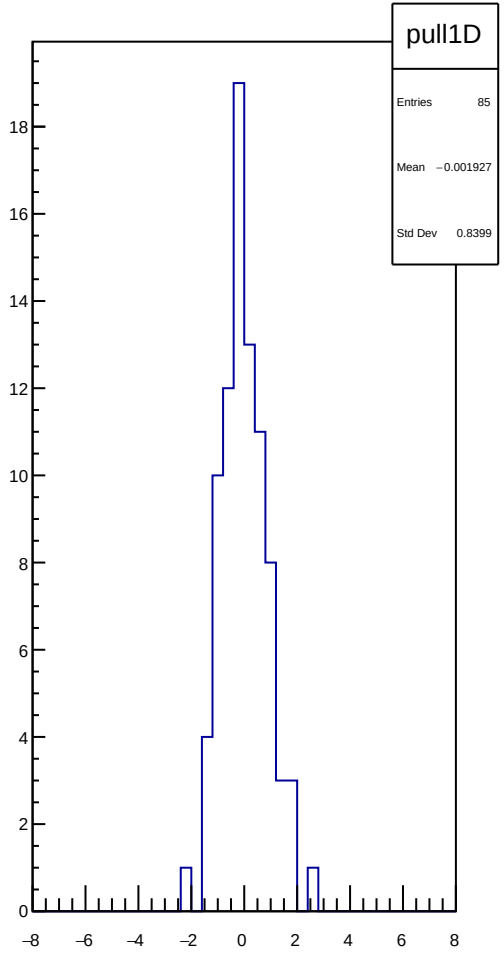

pull1D
Entries 85
Mean −0.01111
Std Dev 0.9488

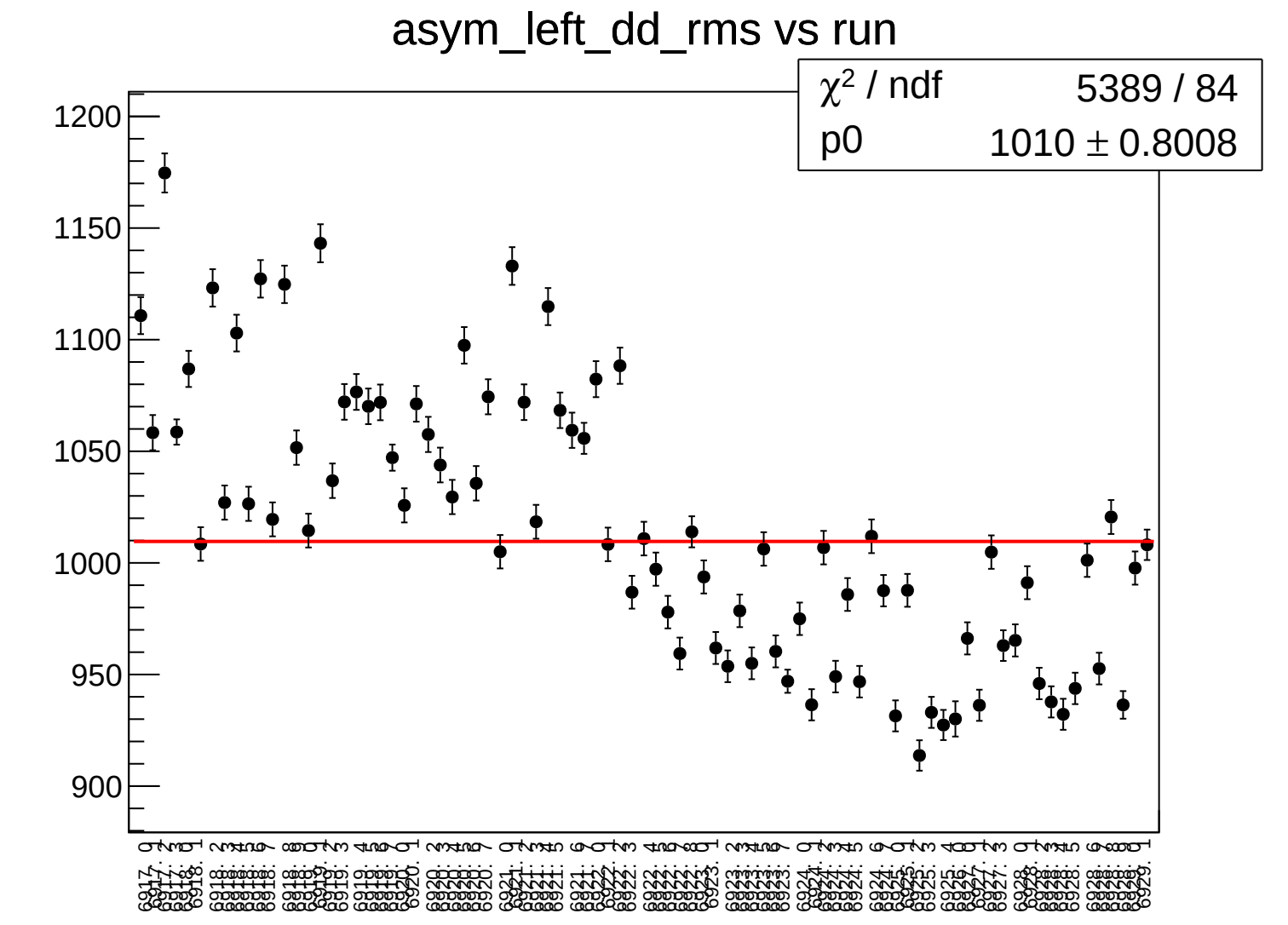

reg_asym_left_dd_rms vs run
χ^2 / ndf 79.26 / 84
p0 559.4 ± 0.443
570
565
560
555
550
545

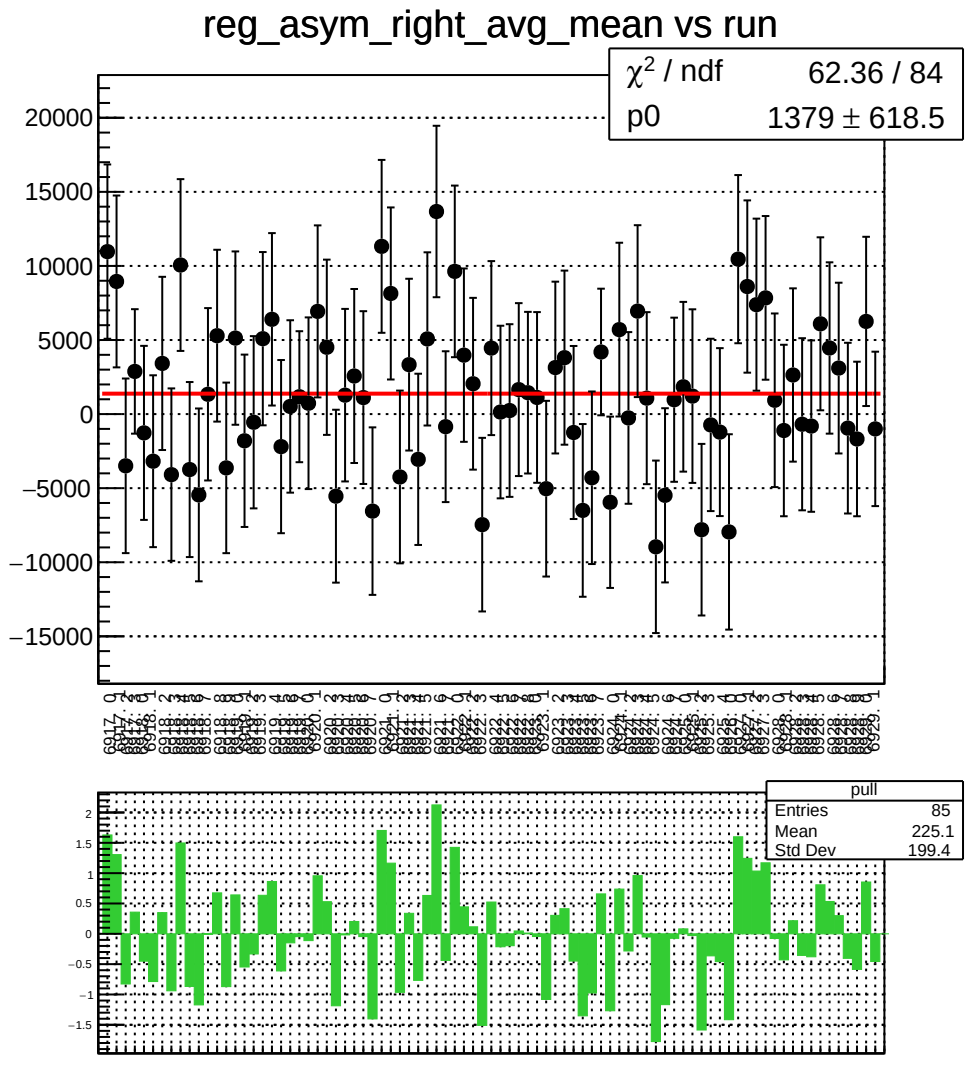

asym_left_dd_correction_mean vs run
χ² / ndf 54.9 / 84
p0 −1389 ± 939.5
pull
Entries 85
Mean −371.5
Std Dev 410.6
pull1D
Entries 85
Mean −0.006008
Std Dev 0.8036

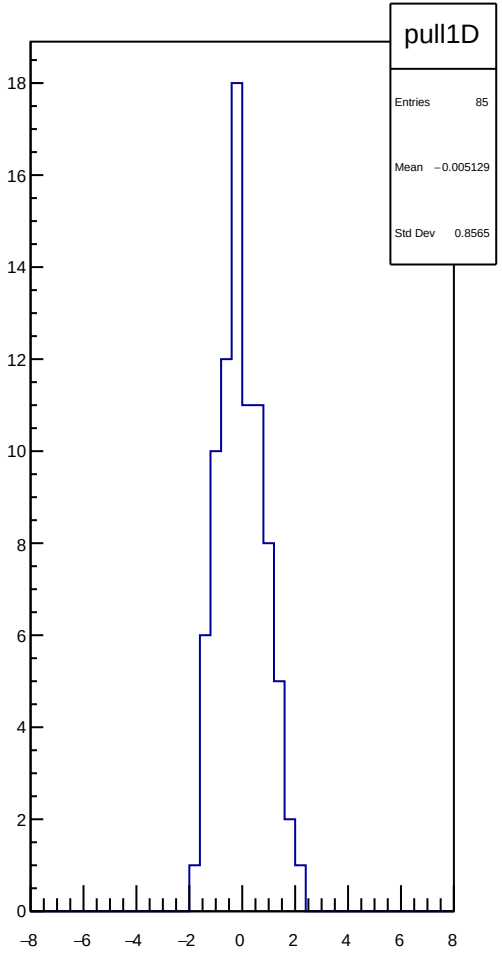

asym_left_dd_correction_rms vs run
χ² / ndf 1.1e+04 / 84
p0 836 ± 0.6643
1050
1000
950
900
850
800
750
700

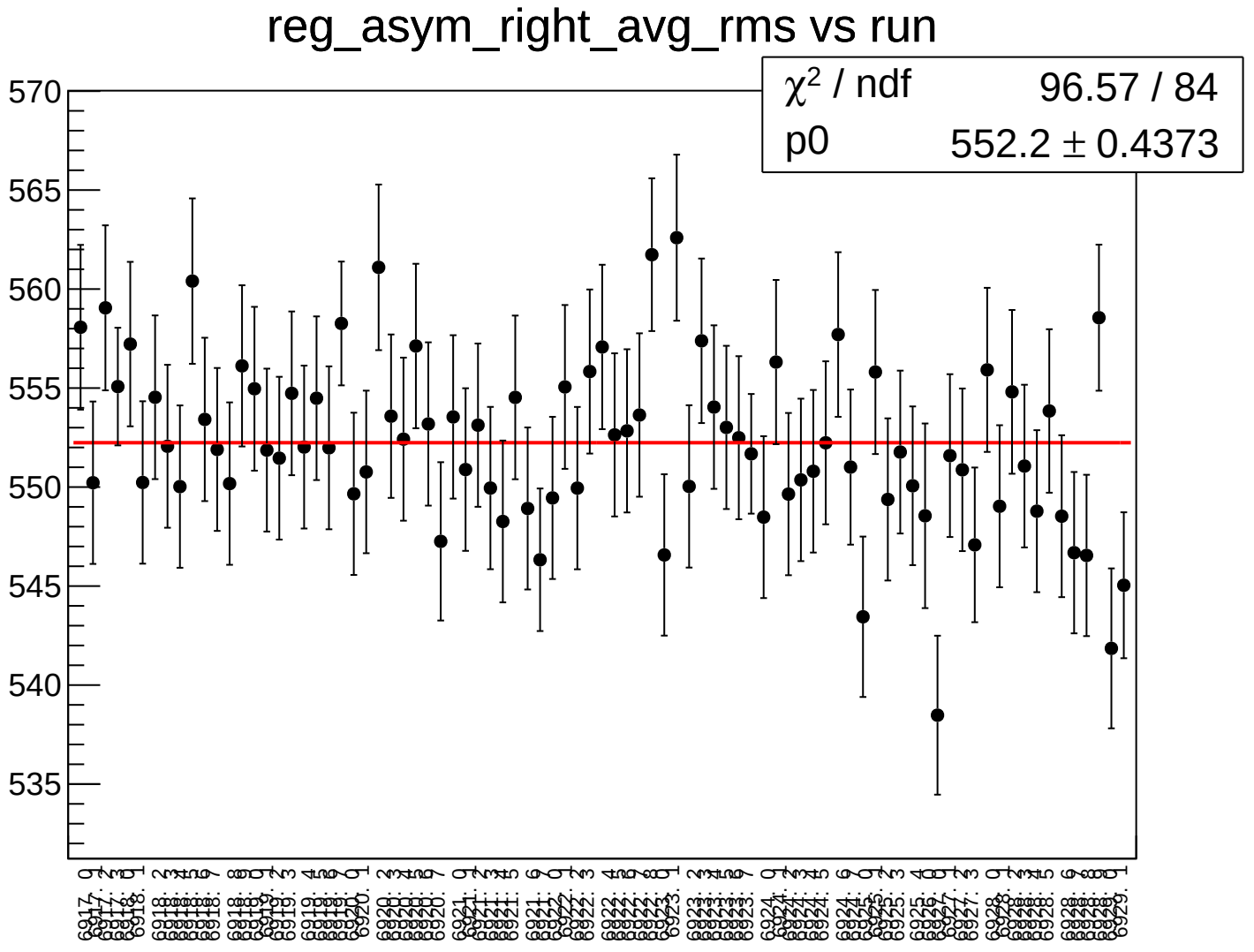

asym_left_dd_mean vs run
χ^2 / ndf 59.96 / 84
p0 2615 ± 1133
pull
Entries 85
Mean 388.2
Std Dev 404.1

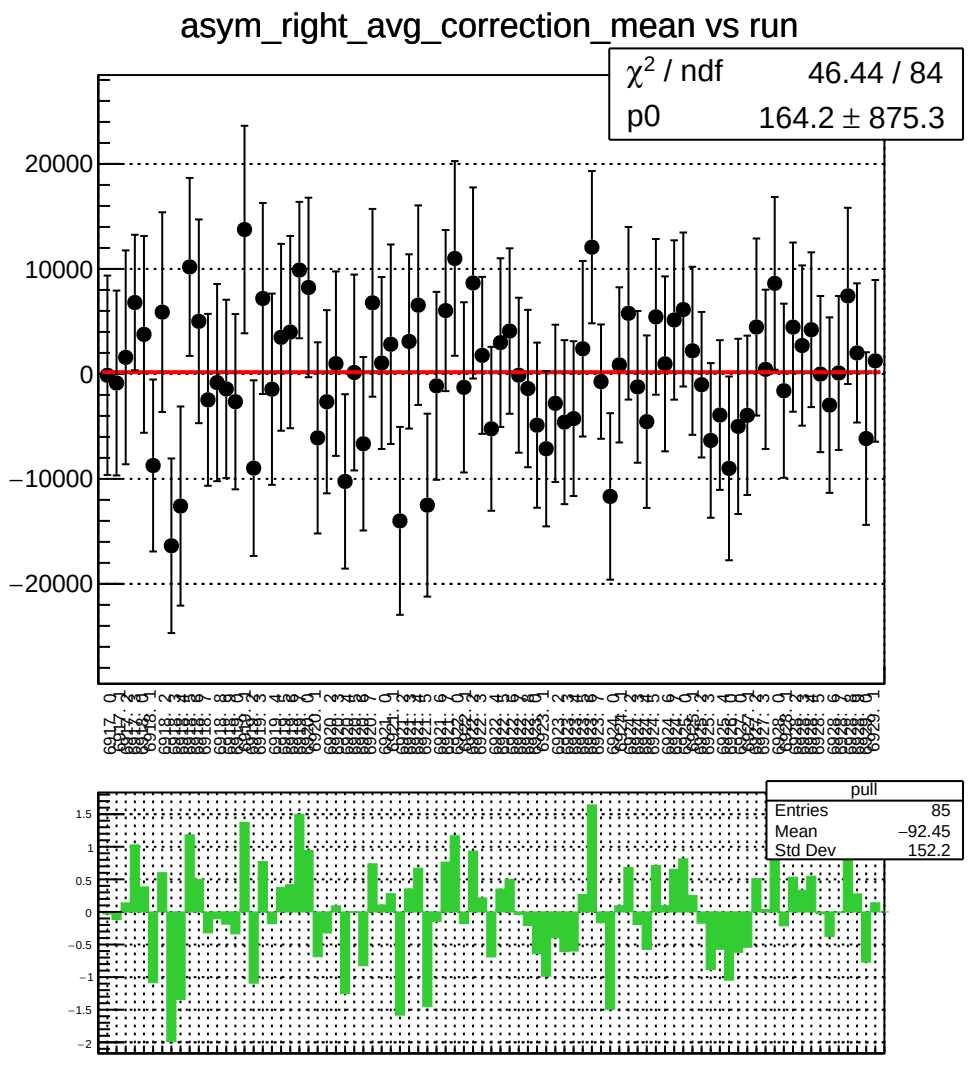

pull1D
Entries 85
Mean −0.001927
Std Dev 0.8399

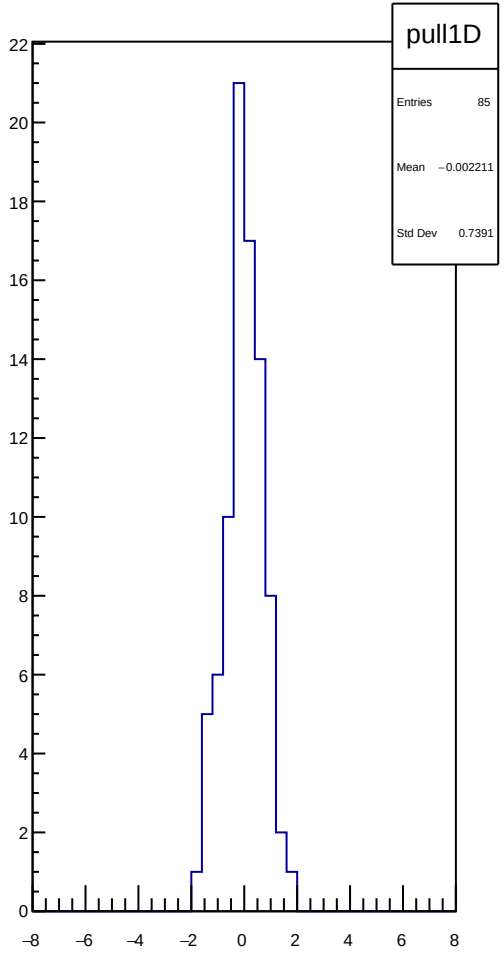

asym_left_dd_rms vs run
χ² / ndf 5389 / 84
p0 1010 ± 0.8008
1200
1150
1100
1050
1000
950
900

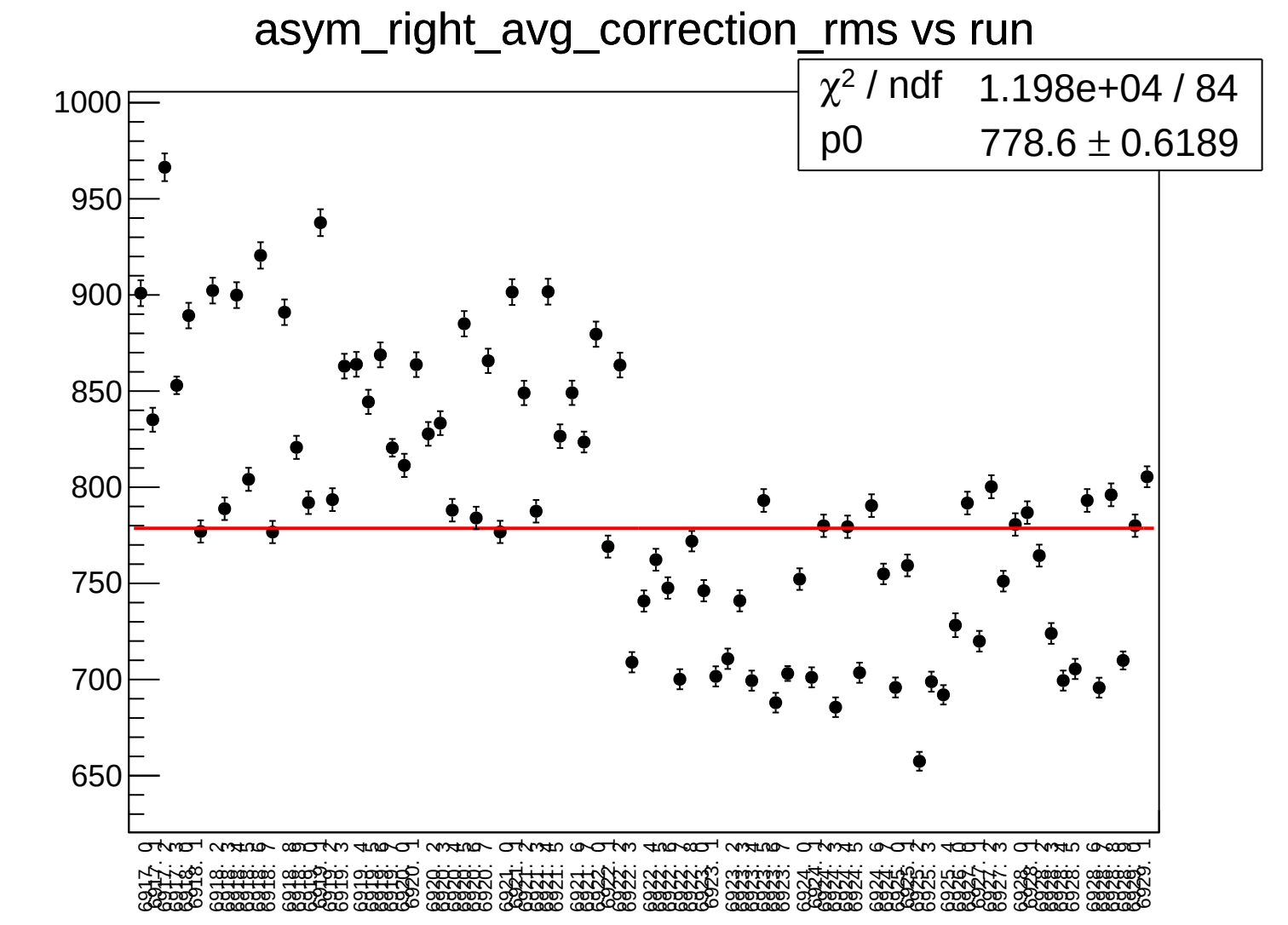

reg_asym_right_avg_mean vs run
χ² / ndf 62.36 / 84
p0 1379 ± 618.5
pull
Entries 85
Mean 225.1
Std Dev 199.4

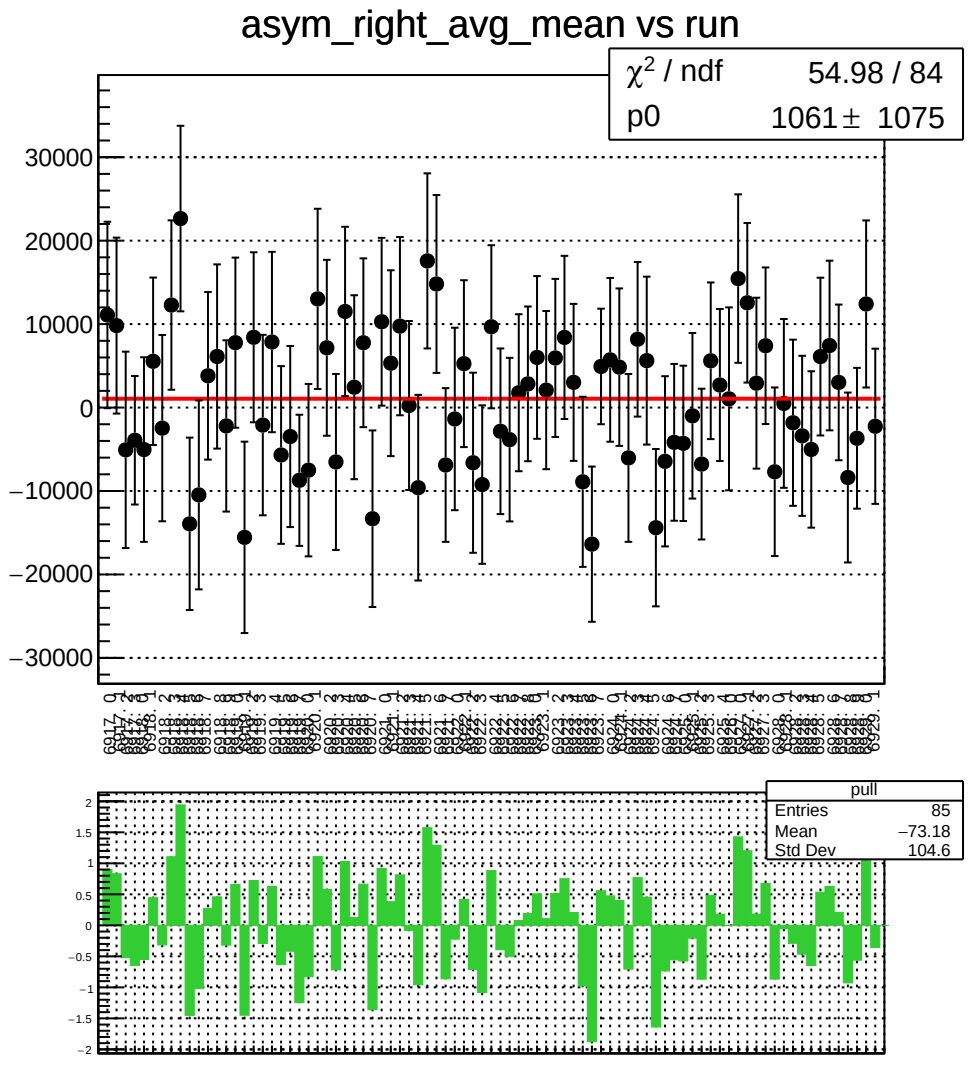

pull1D
Entries 85
Mean −0.005129
Std Dev 0.8565

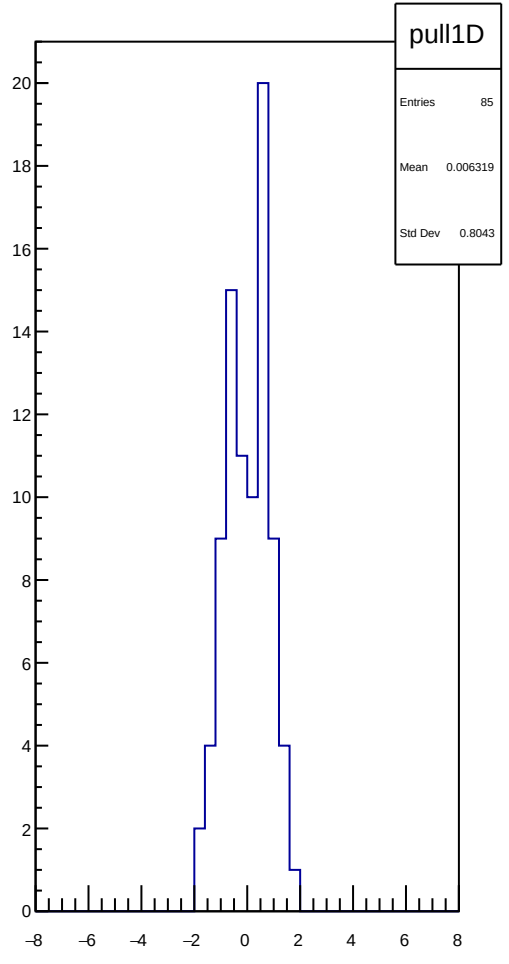

reg_asym_right_avg_rms vs run
χ² / ndf 96.57 / 84
p0 552.2 ± 0.4373
570
565
560
555
550
545
540
535

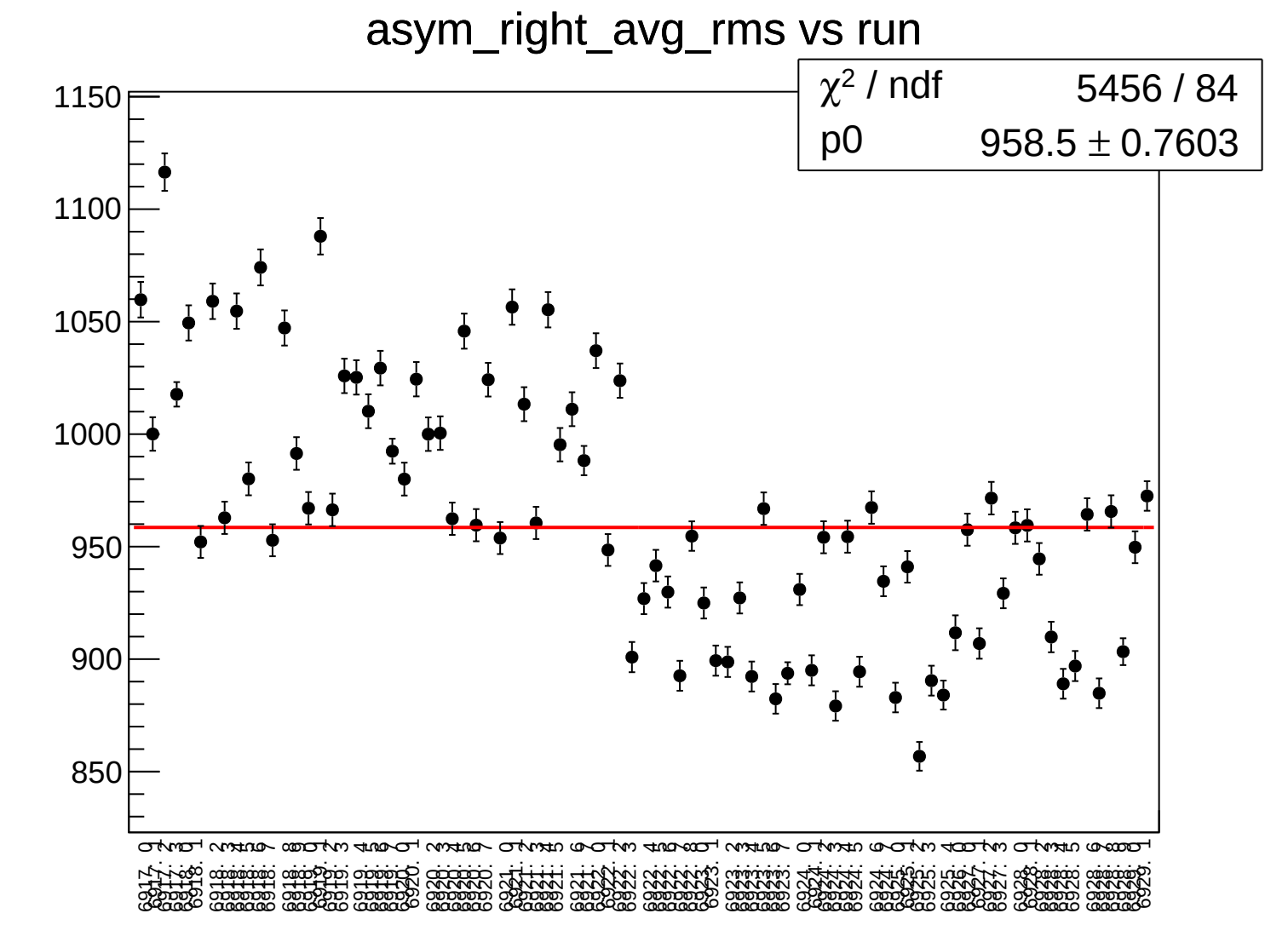

asym_right_avg_correction_mean vs run
χ² / ndf 46.44 / 84
p0 164.2 ± 875.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −92.45
Std Dev 152.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

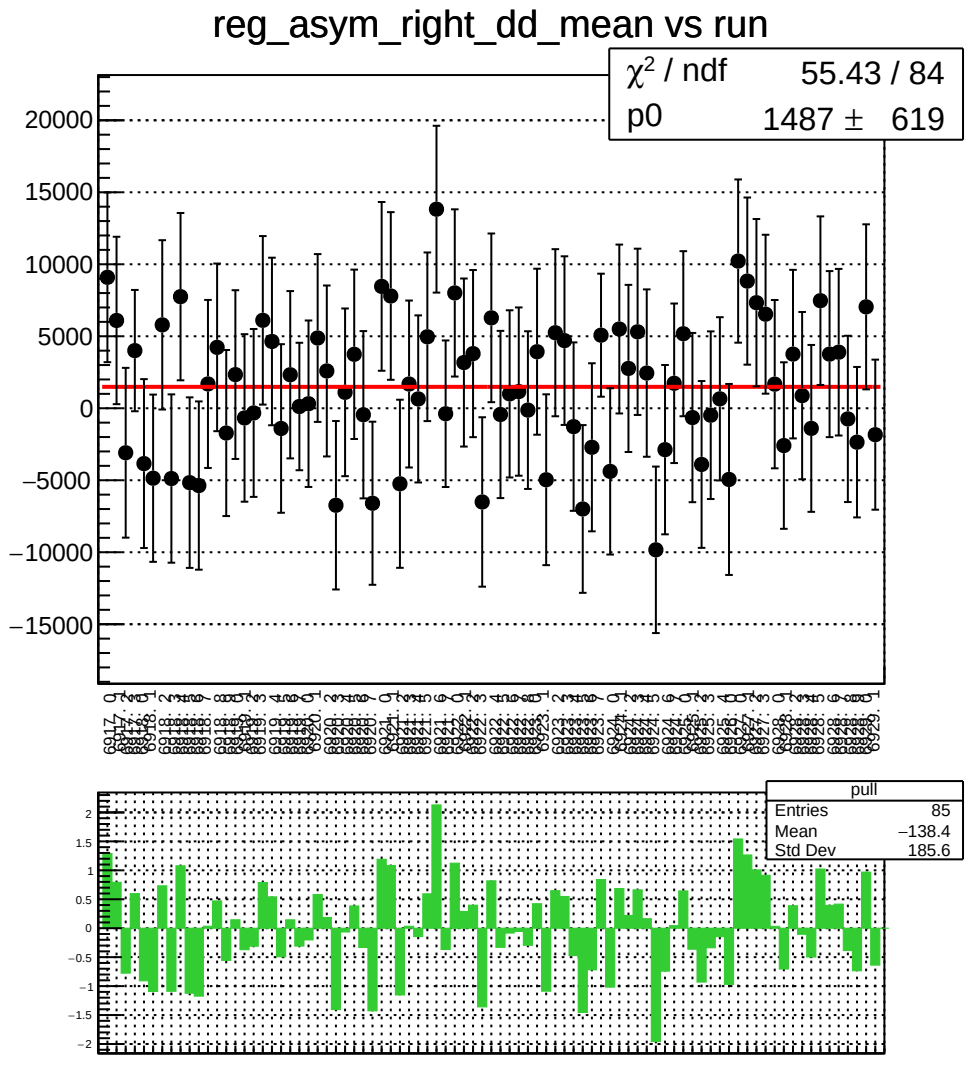

pull1D
Entries 85
Mean −0.002211
Std Dev 0.7391
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

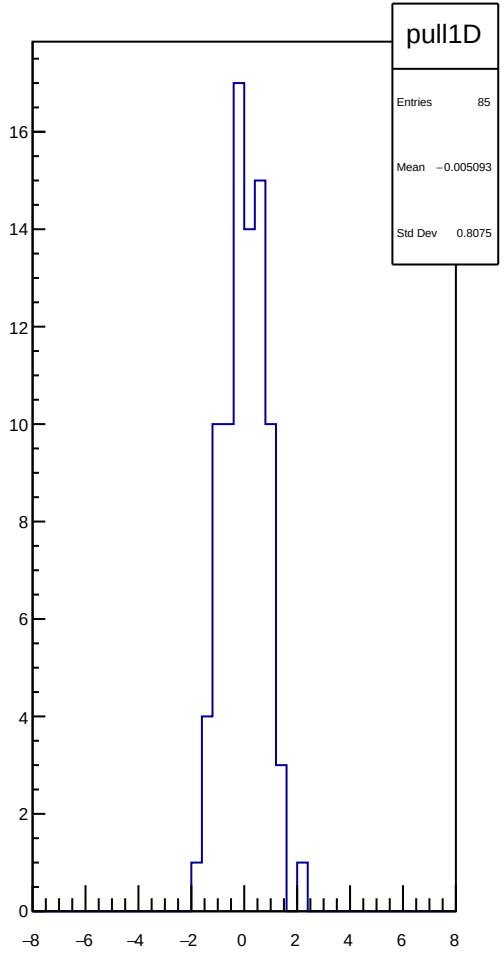

asym_right_avg_correction_rms vs run
χ² / ndf 1.198e+04 / 84
p0 778.6 ± 0.6189
1000
950
900
850
800
750
700
650

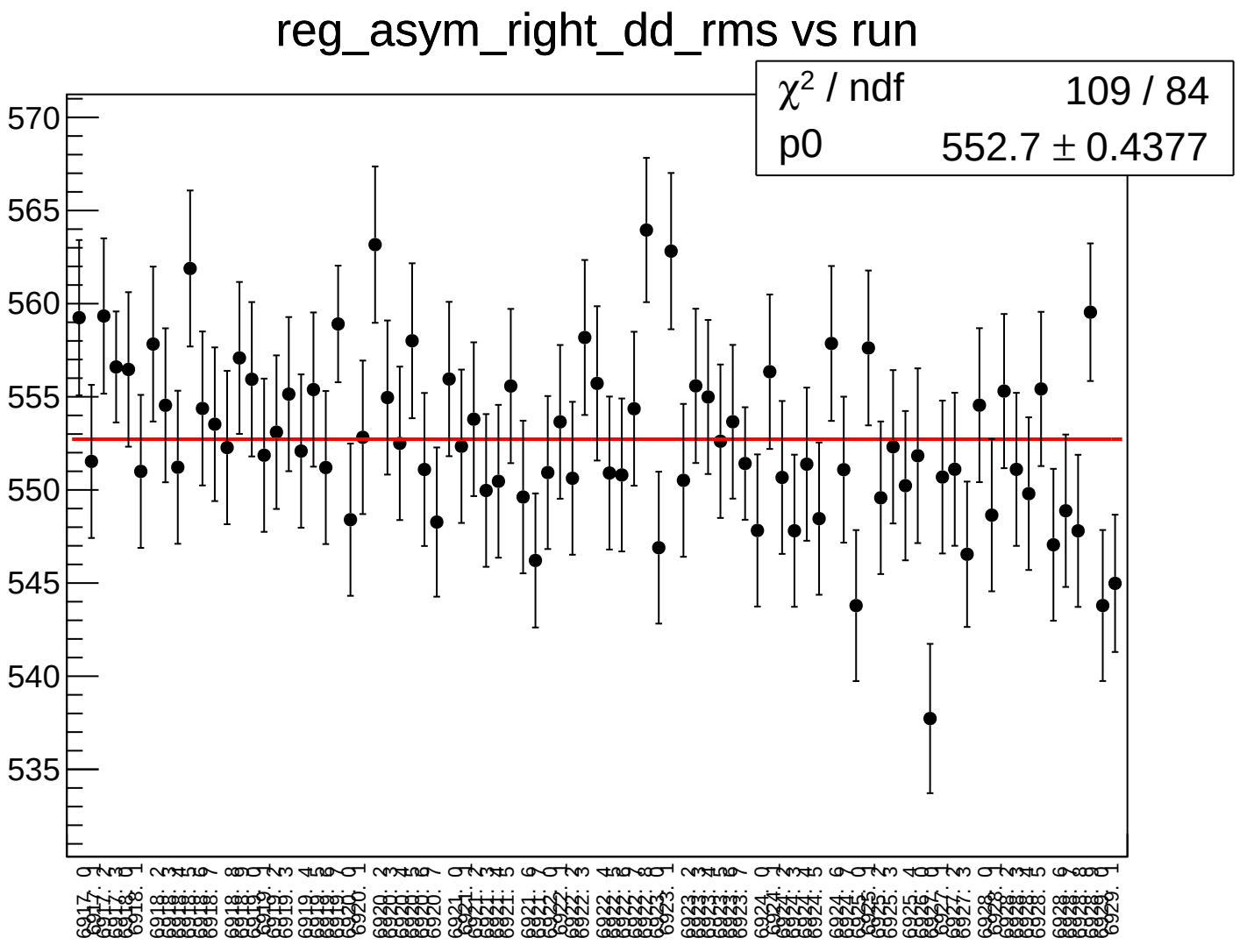

asym_right_avg_mean vs run
χ² / ndf 54.98 / 84
p0 1061 ± 1075
pull
Entries 85
Mean −73.18
Std Dev 104.6

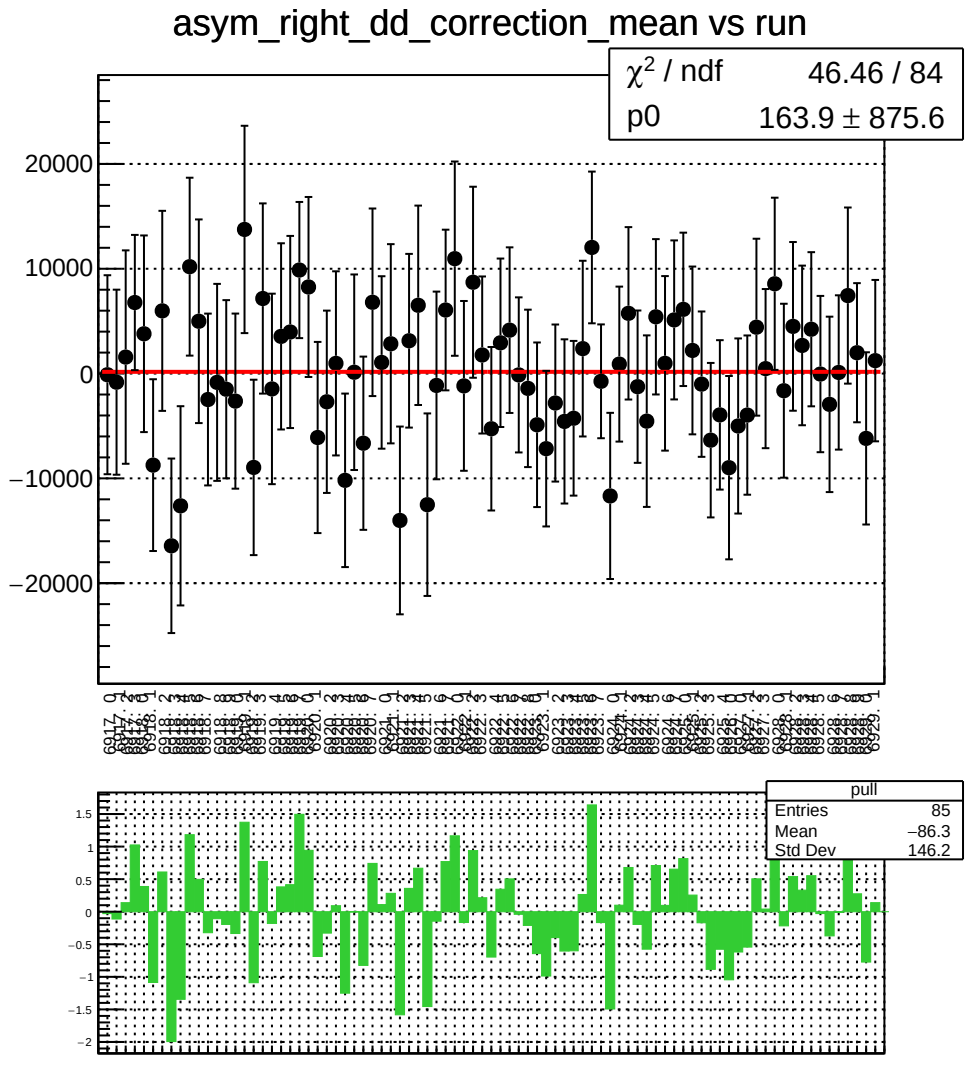

pull1D
Entries 85
Mean 0.006319
Std Dev 0.8043

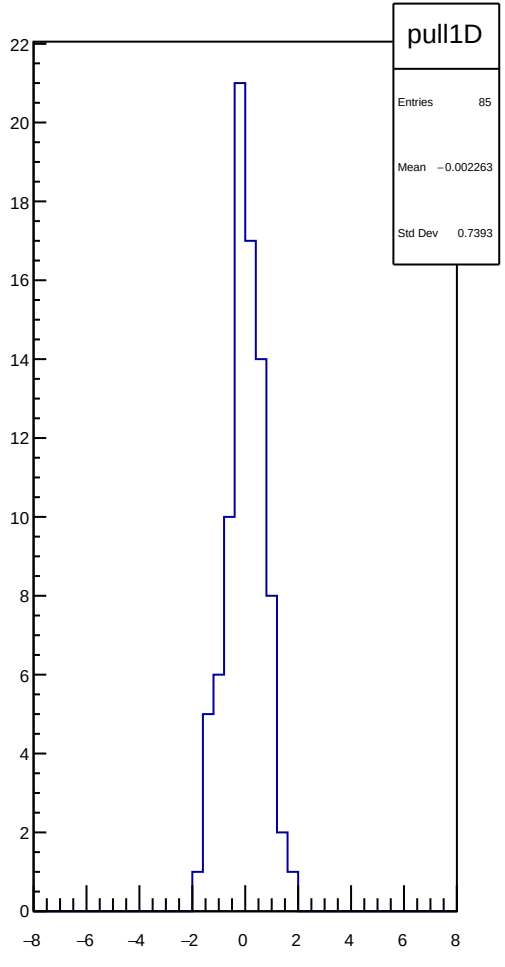

asym_right_avg_rms vs run
χ² / ndf 5456 / 84
p0 958.5 ± 0.7603
1150
1100
1050
1000
950
900
850

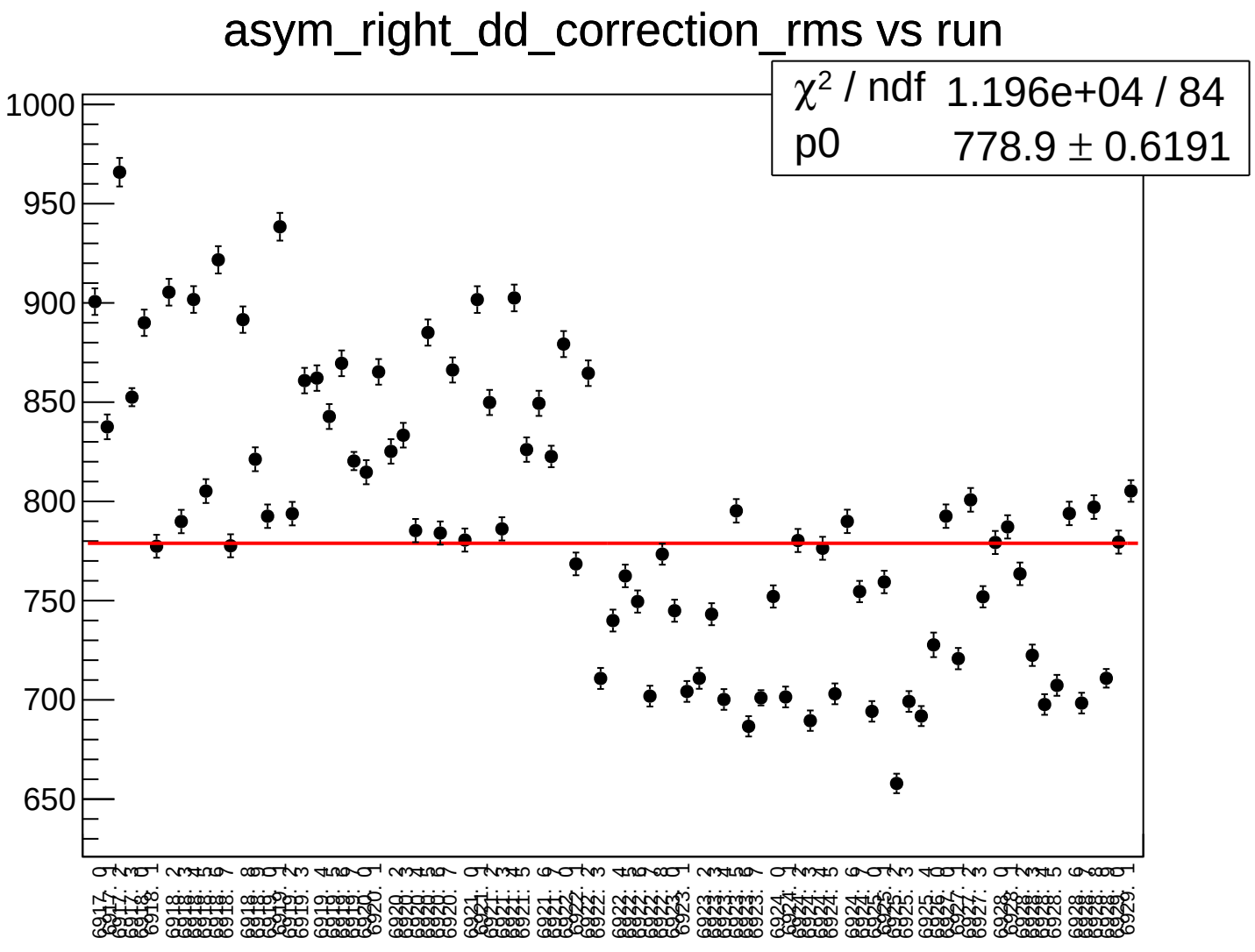

reg_asym_right_dd_mean vs run
χ² / ndf 55.43 / 84
p0 1487 ± 619
pull
Entries 85
Mean −138.4
Std Dev 185.6

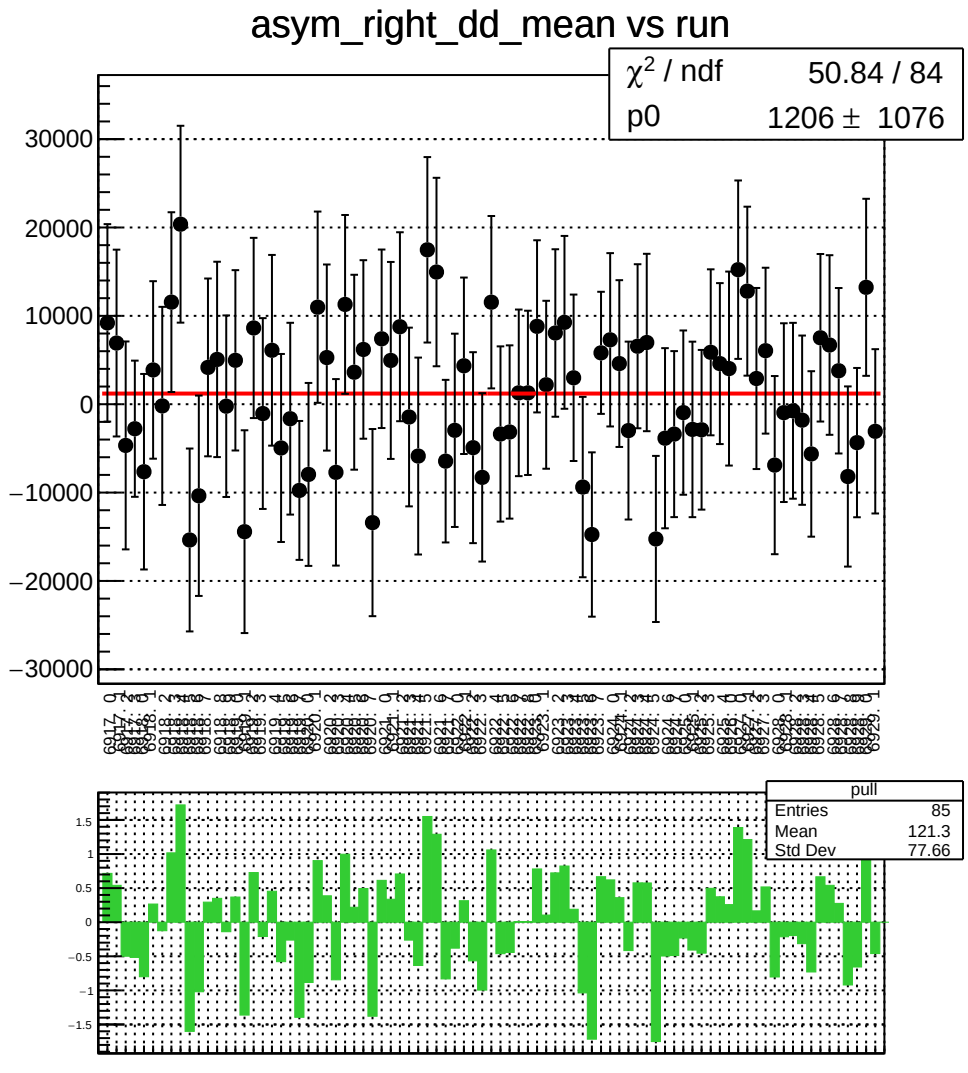

pull1D
Entries 85
Mean −0.005093
Std Dev 0.8075

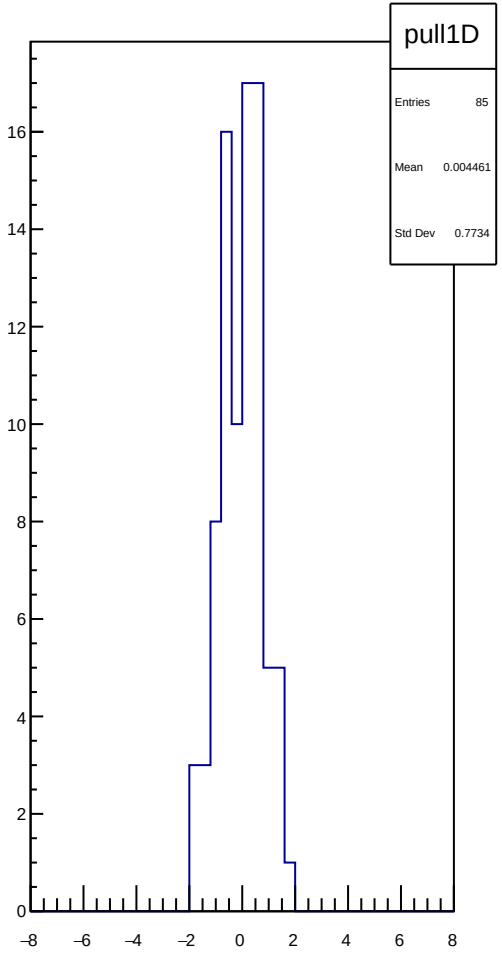

reg_asym_right_dd_rms vs run
χ² / ndf 109 / 84
p0 552.7 ± 0.4377
570
565
560
555
550
545
540
535

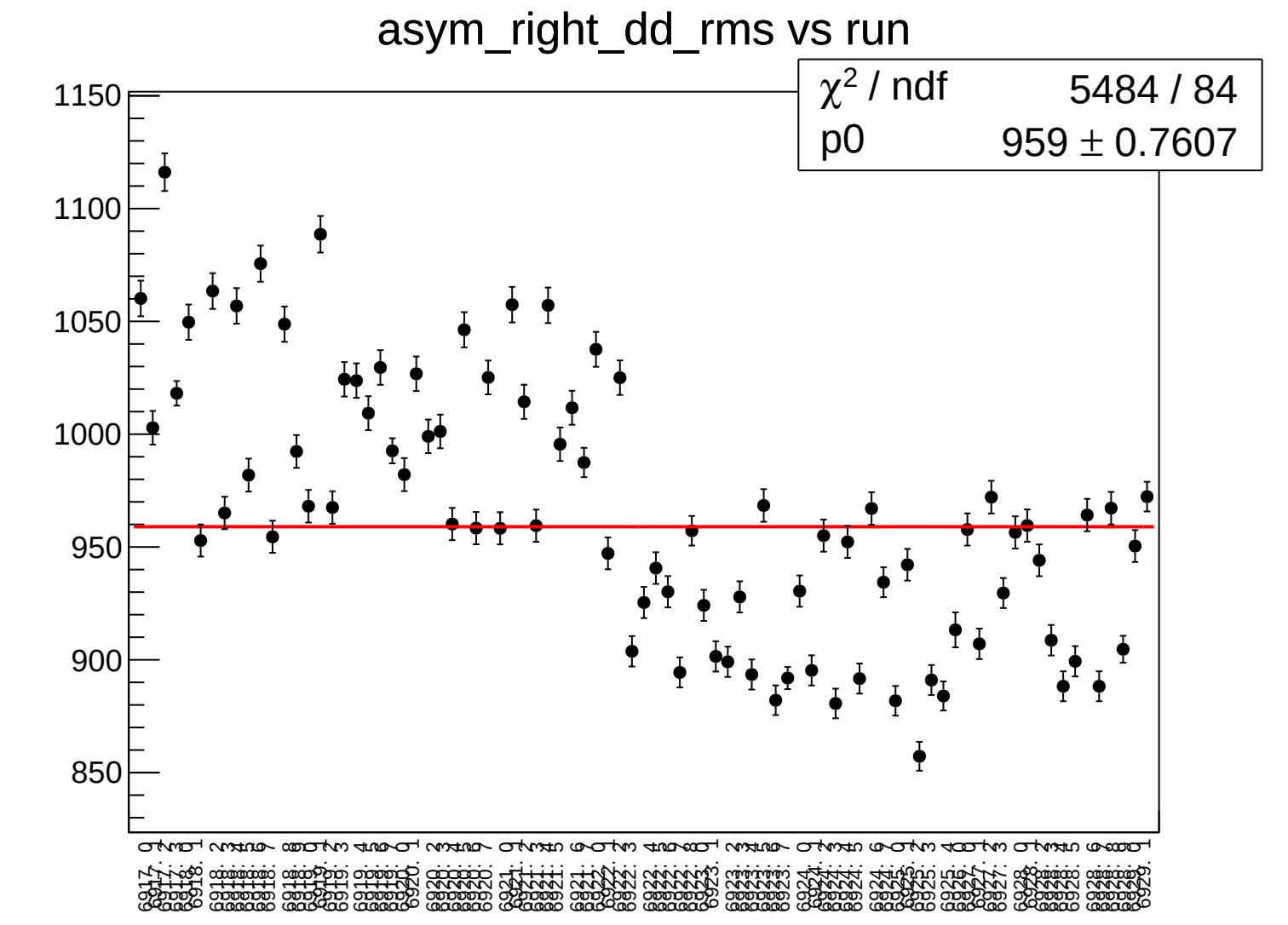

asym_right_dd_correction_mean vs run
χ² / ndf 46.46 / 84
p0 163.9 ± 875.6
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −86.3
Std Dev 146.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

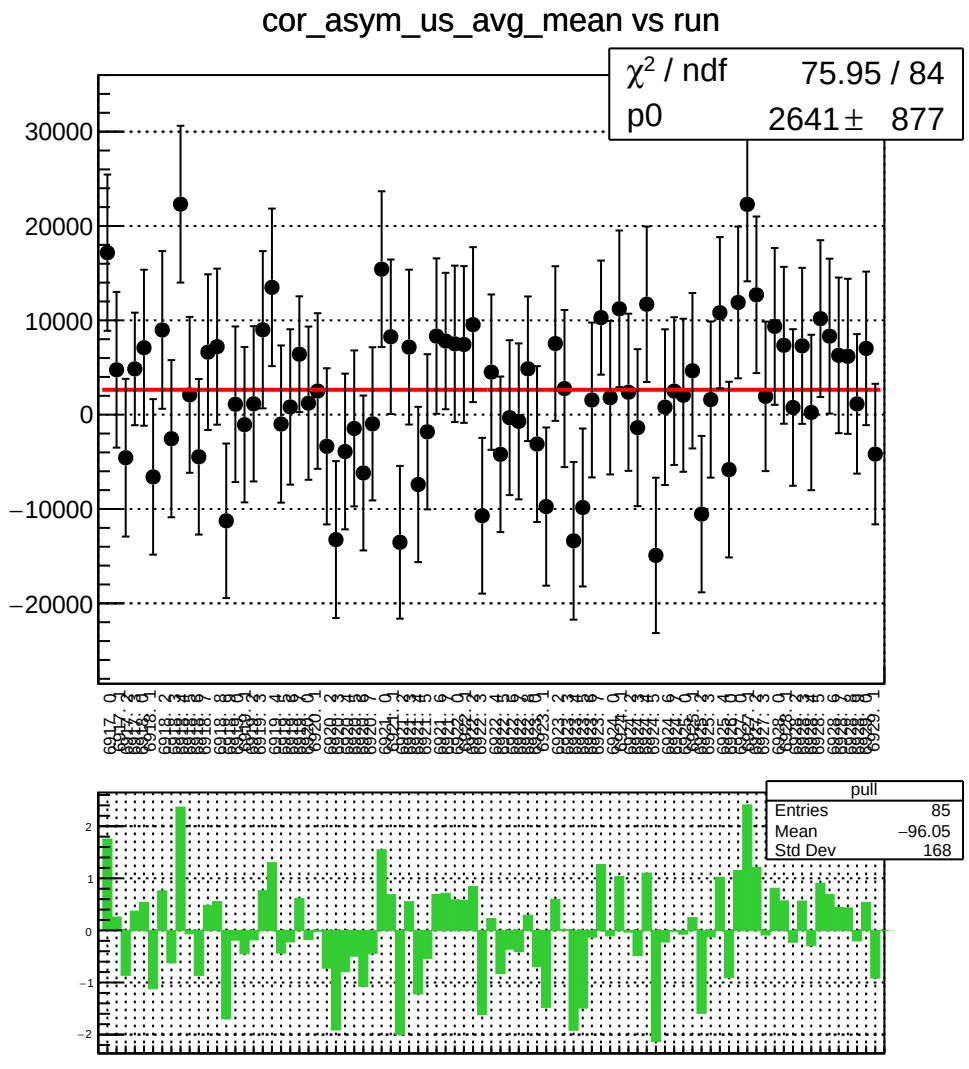

pull1D
Entries 85
Mean −0.002263
Std Dev 0.7393
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

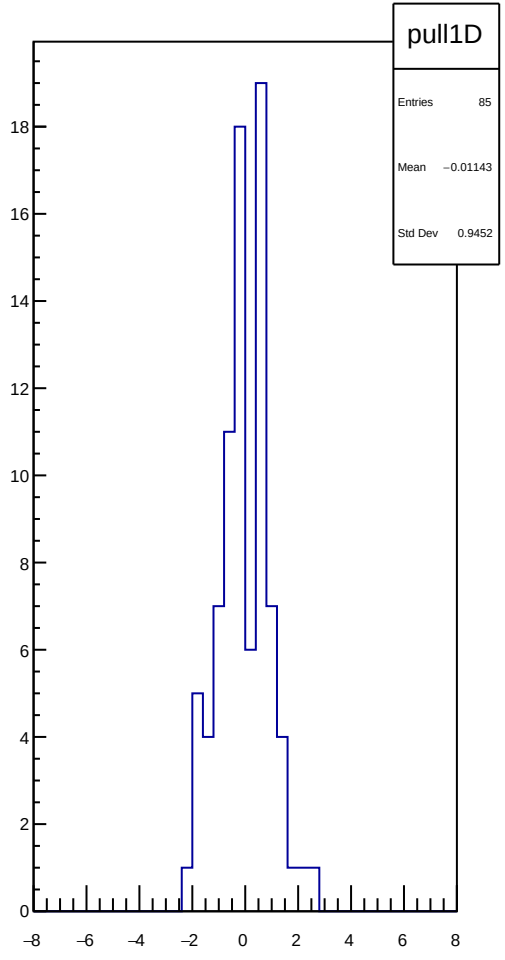

asym_right_dd_correction_rms vs run
χ² / ndf 1.196e+04 / 84
p0 778.9 ± 0.6191
1000
950
900
850
800
750
700
650

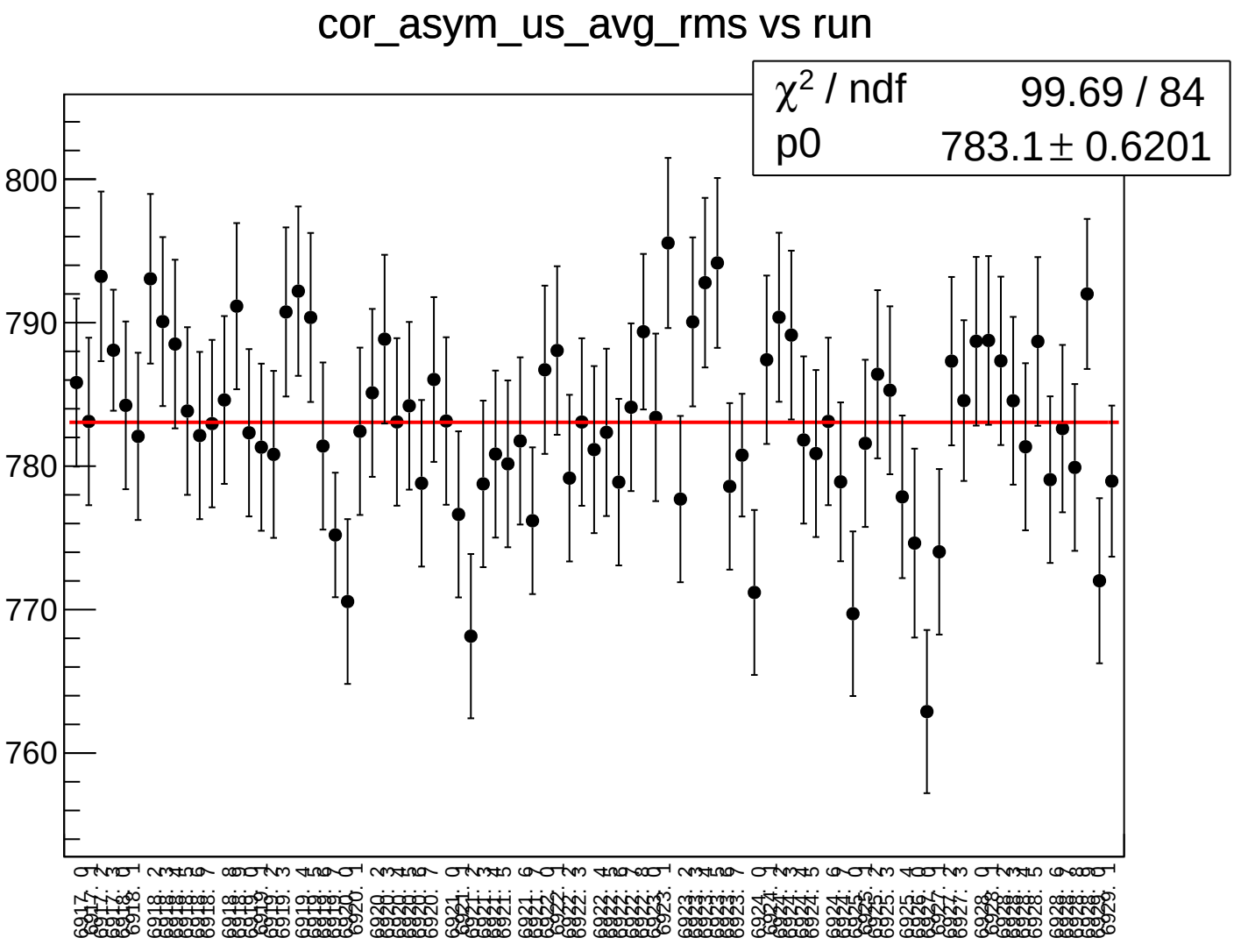

asym_right_dd_mean vs run
χ² / ndf 50.84 / 84
p0 1206 ± 1076
pull
Entries 85
Mean 121.3
Std Dev 77.66

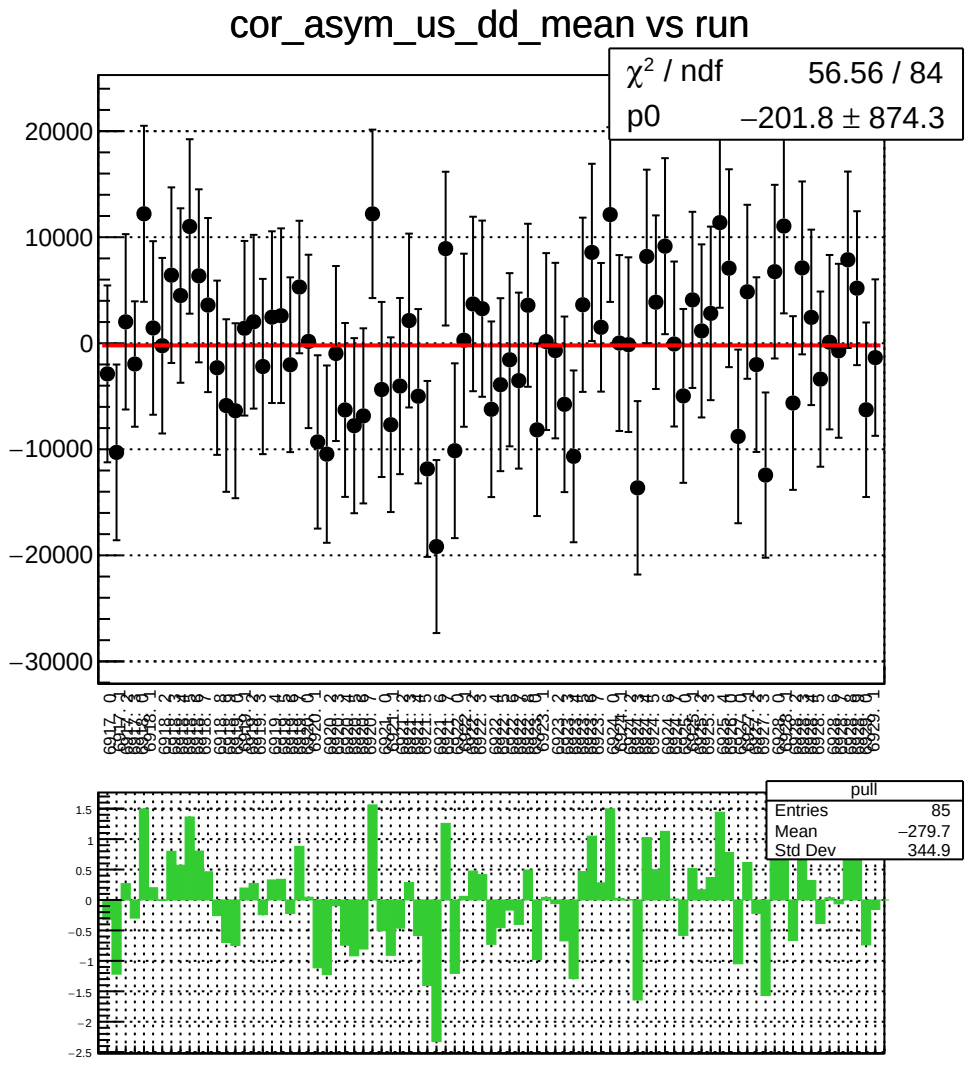

pull1D
Entries 85
Mean 0.004461
Std Dev 0.7734

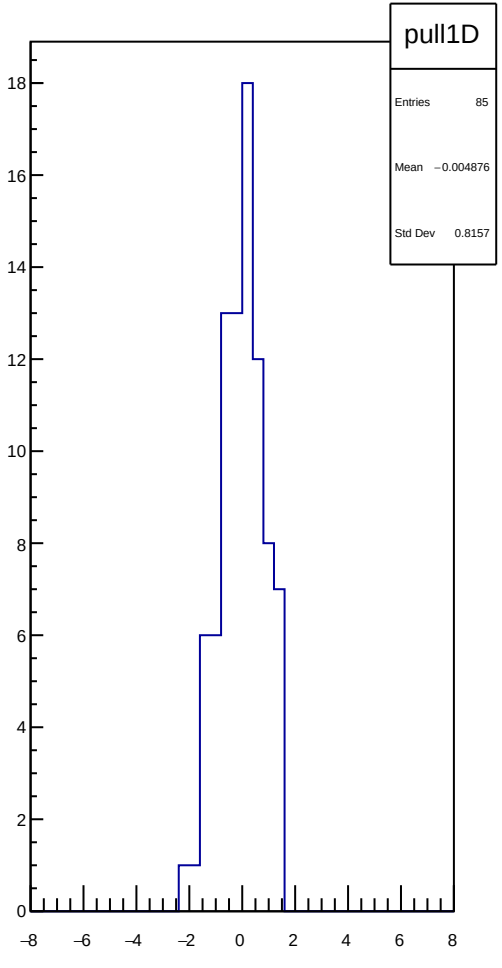

asym_right_dd_rms vs run
χ^2 / ndf 5484 / 84
p0 959 ± 0.7607
1150
1100
1050
1000
950
900
850

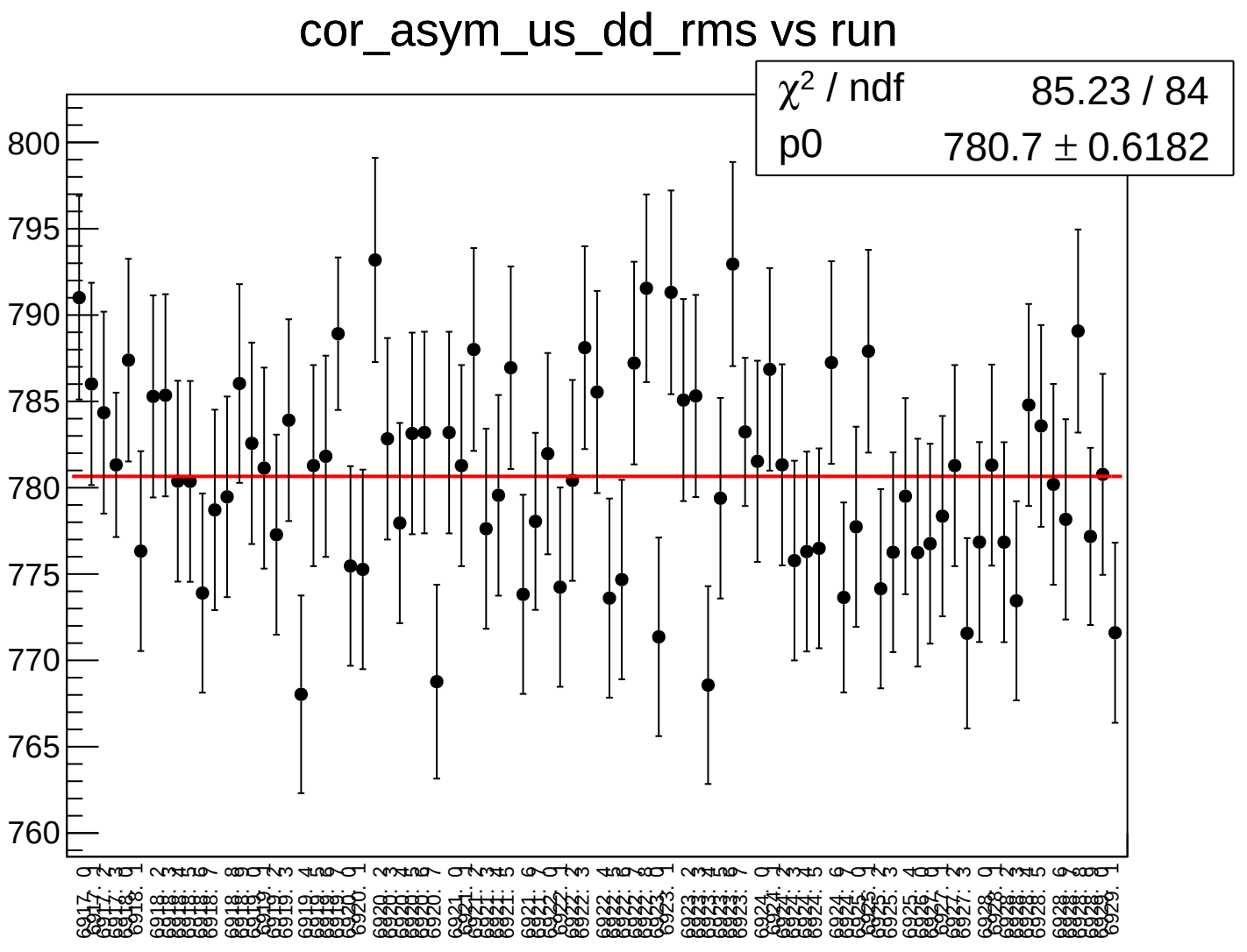

cor_asym_us_avg_mean vs run
χ² / ndf 75.95 / 84
p0 2641 ± 877
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −96.05
Std Dev 168
2
1
0
−1
−2

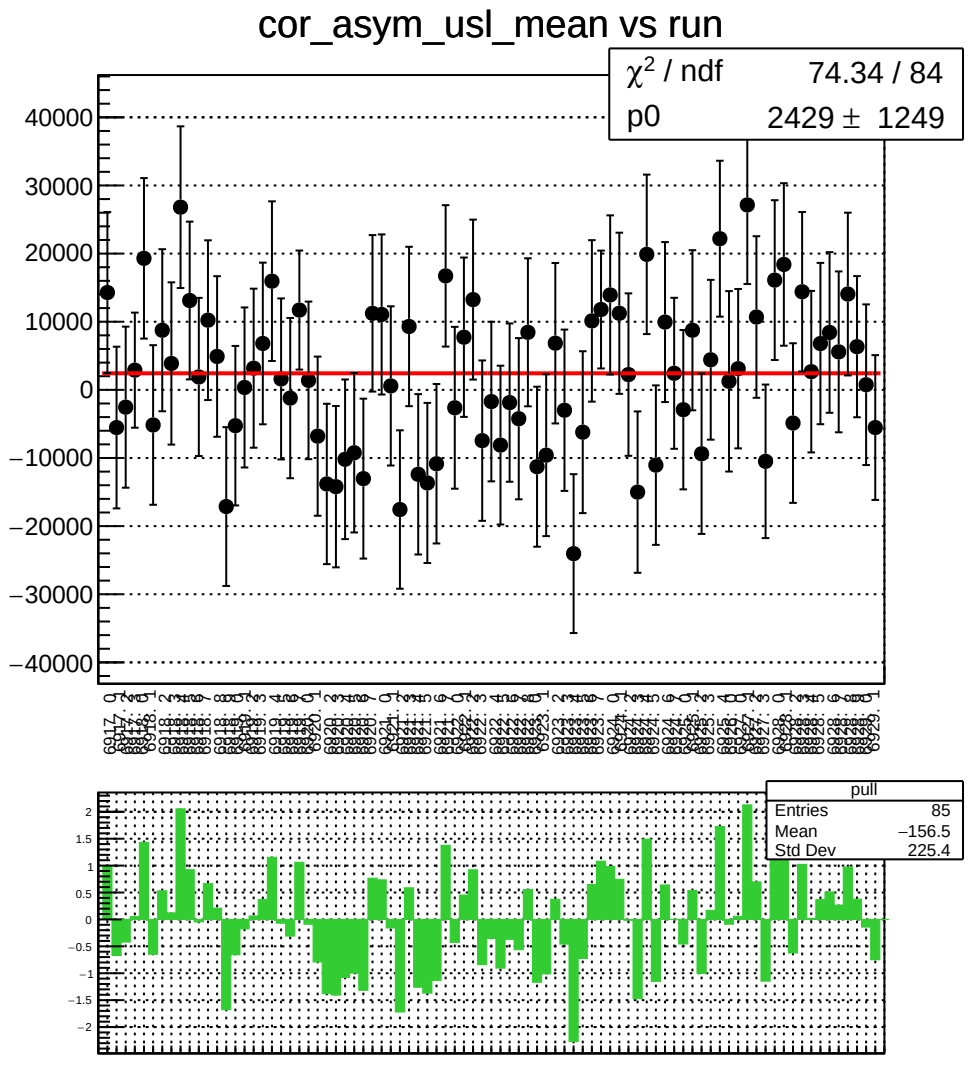

pull1D
Entries 85
Mean −0.01143
Std Dev 0.9452
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

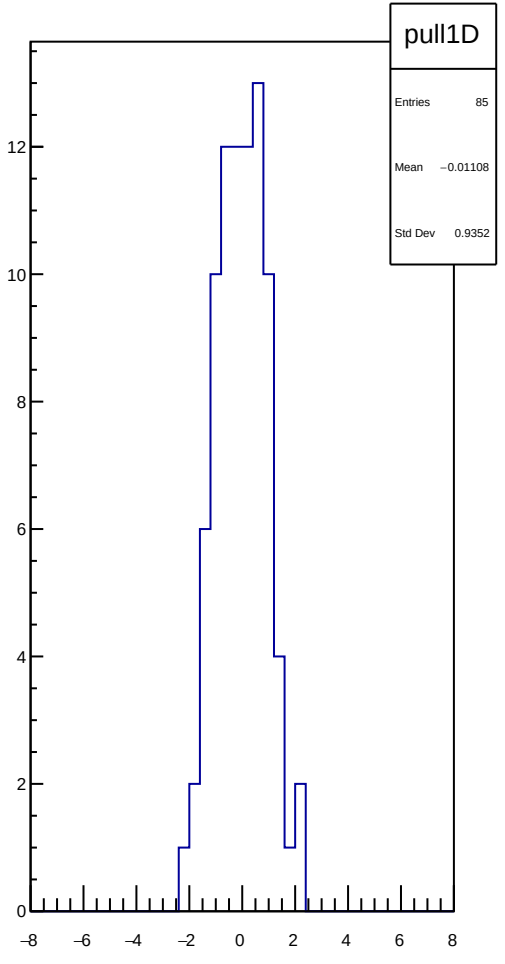

cor_asym_us_avg_rms vs run
χ^2 / ndf 99.69 / 84
p0 783.1 ± 0.6201
800
790
780
770
760

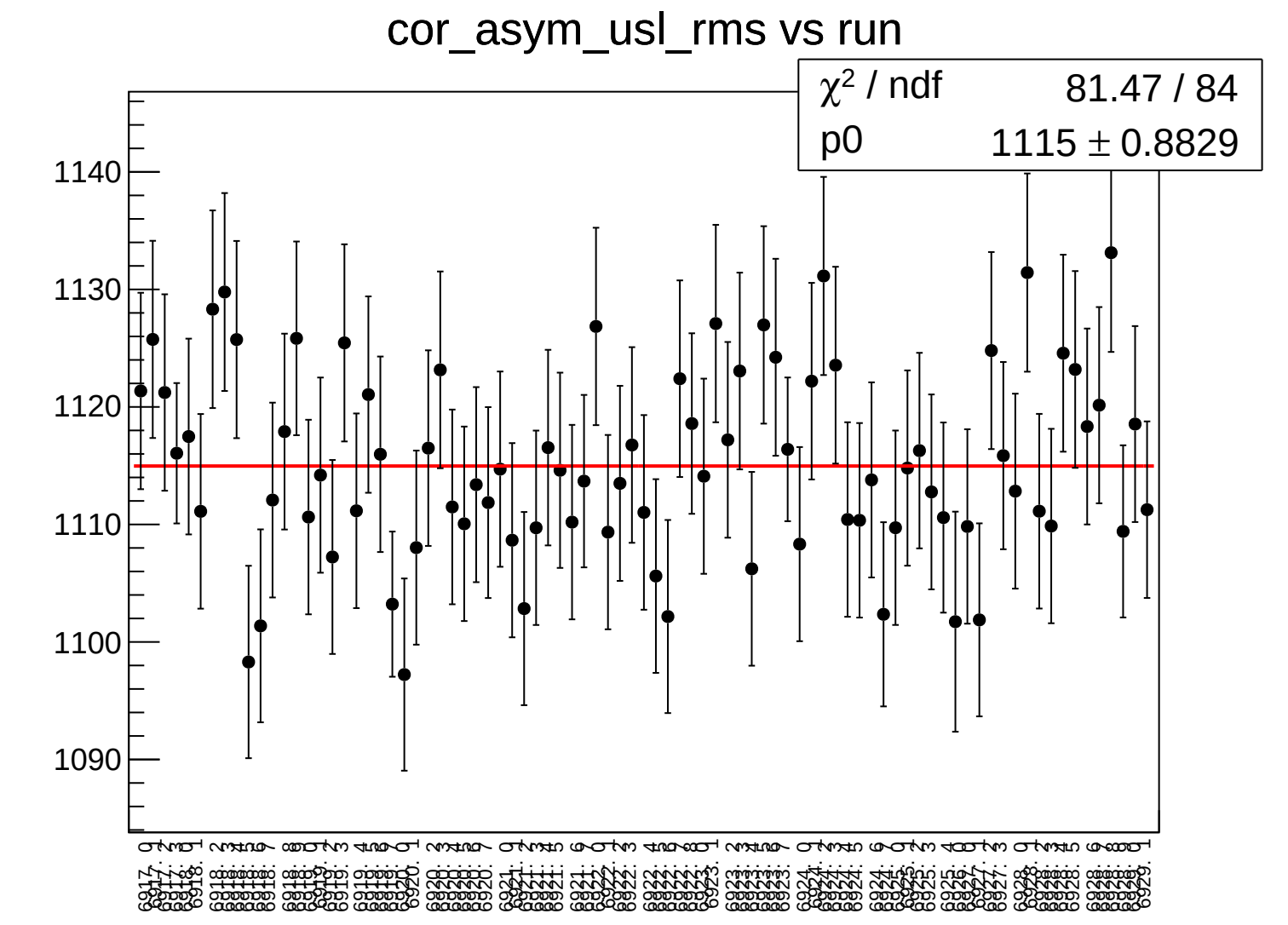

cor_asym_us_dd_mean vs run
χ² / ndf 56.56 / 84
p0 −201.8 ± 874.3
pull
Entries 85
Mean −279.7
Std Dev 344.9

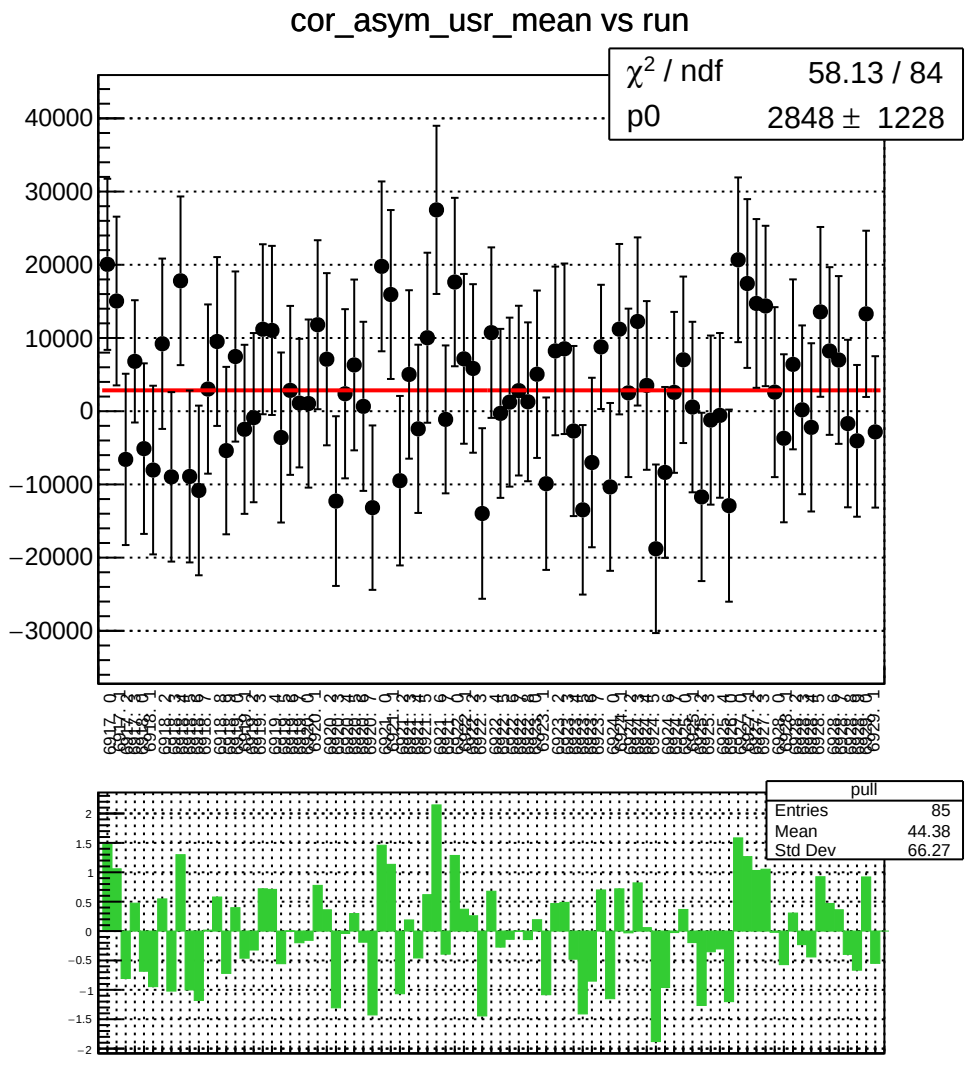

pull1D
Entries 85
Mean −0.004876
Std Dev 0.8157

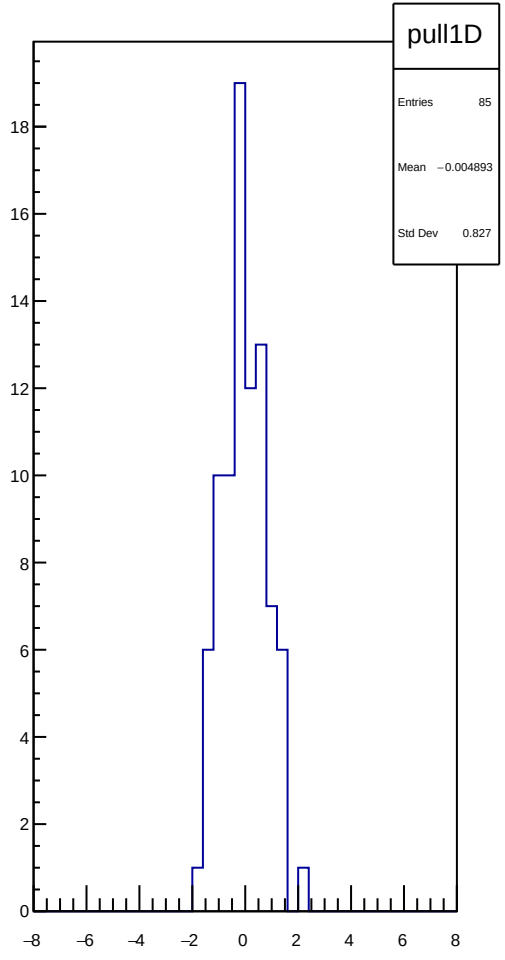

cor_asym_us_dd_rms vs run
χ² / ndf 85.23 / 84
p0 780.7 ± 0.6182
800
795
790
785
780
775
770
765
760

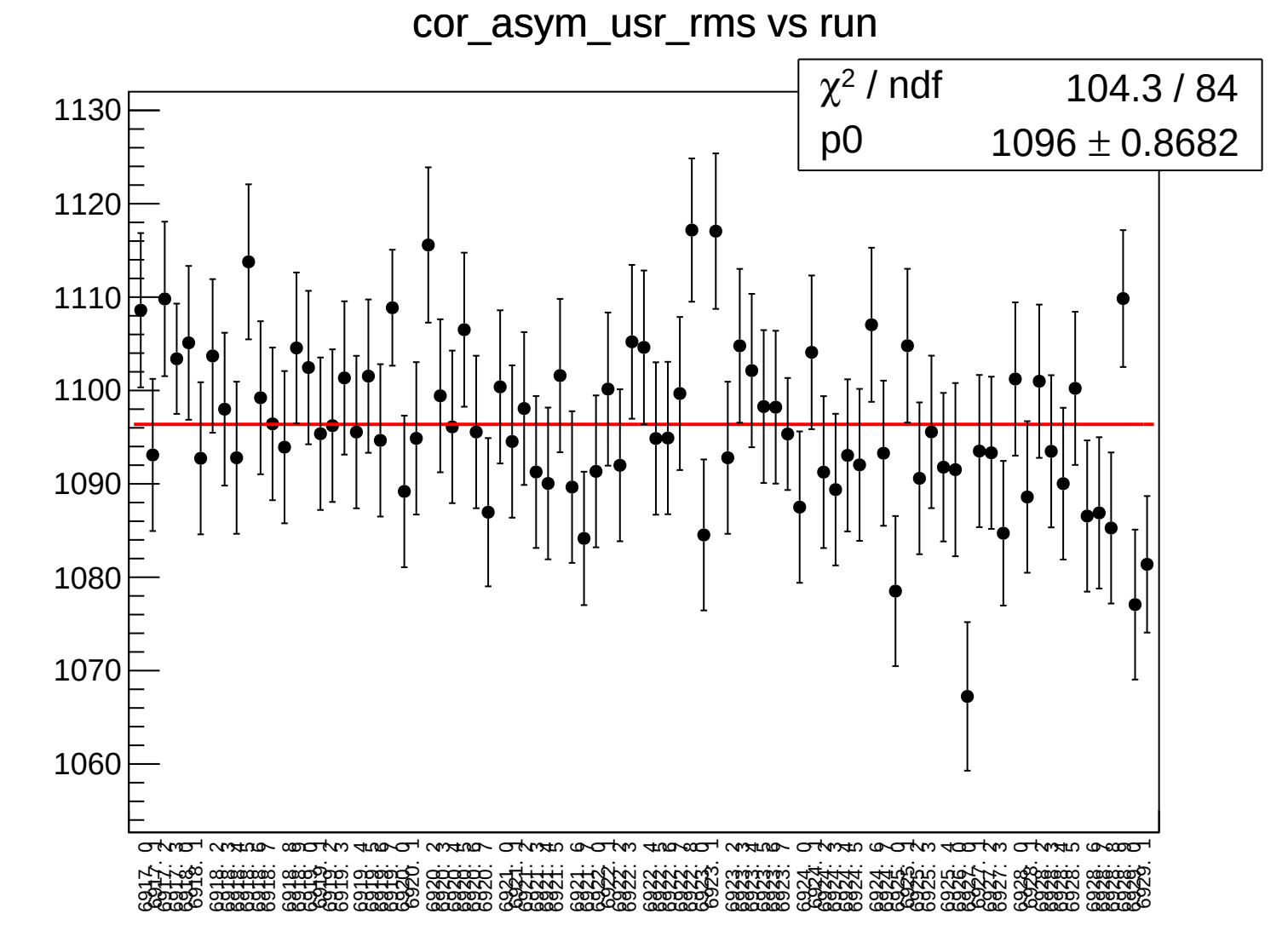

cor_asym_usl_mean vs run
χ² / ndf 74.34 / 84
p0 2429 ± 1249
pull
Entries 85
Mean −156.5
Std Dev 225.4

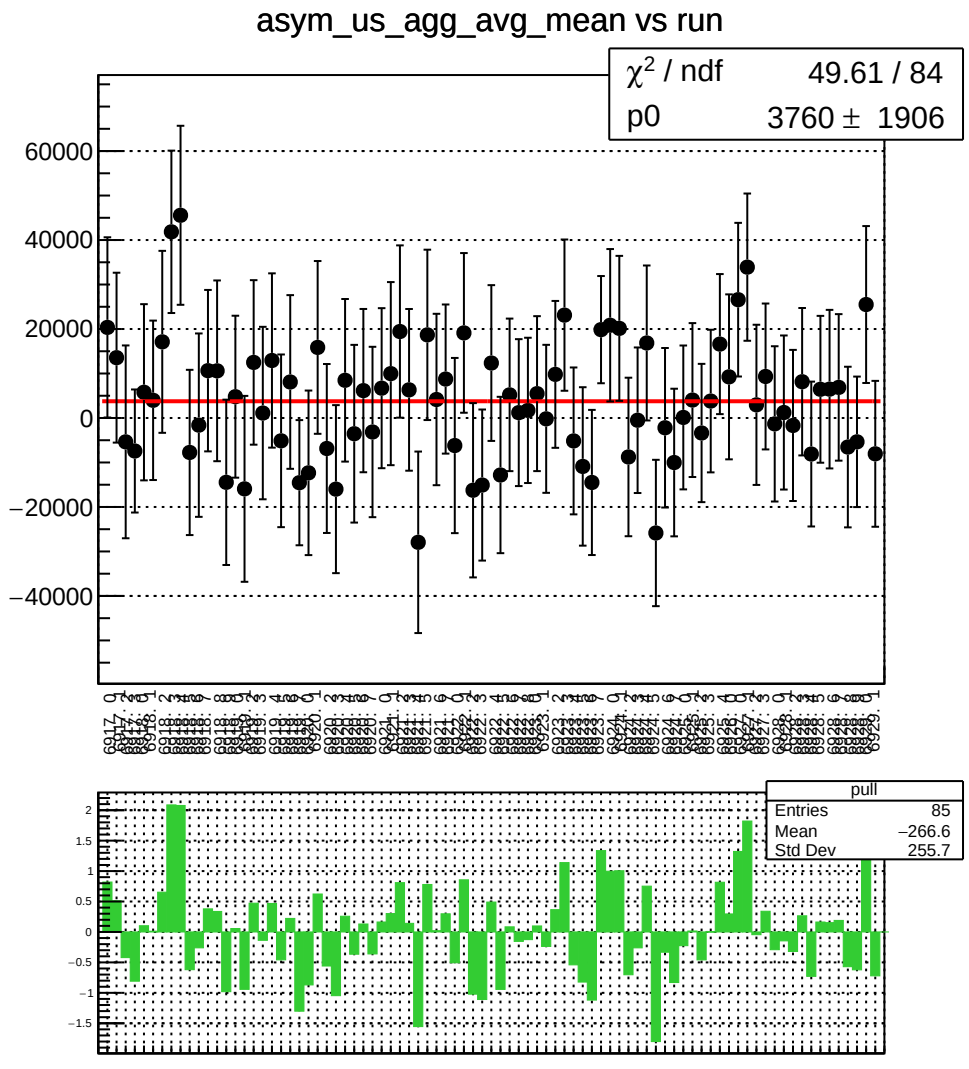

pull1D
Entries 85
Mean −0.01108
Std Dev 0.9352

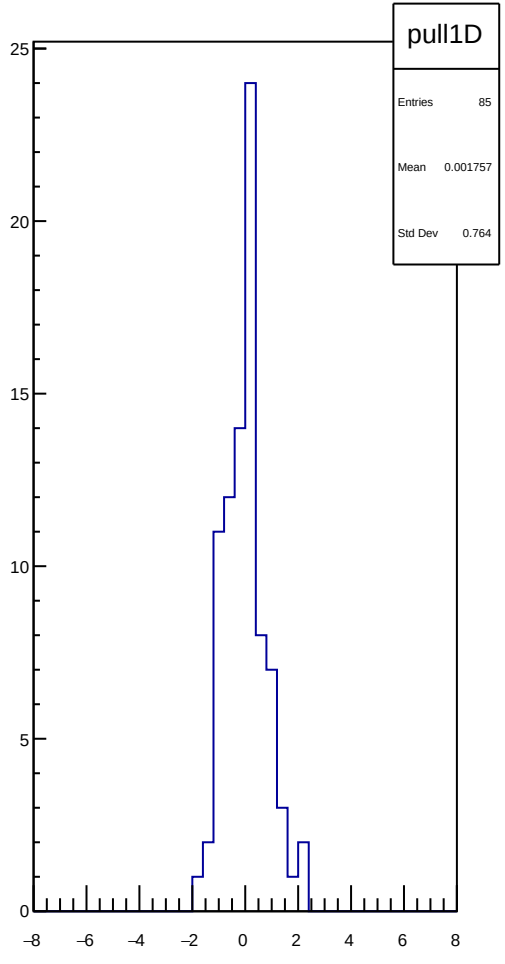

cor_asym_usl_rms vs run
χ² / ndf 81.47 / 84
p0 1115 ± 0.8829
1140
1130
1120
1110
1100
1090

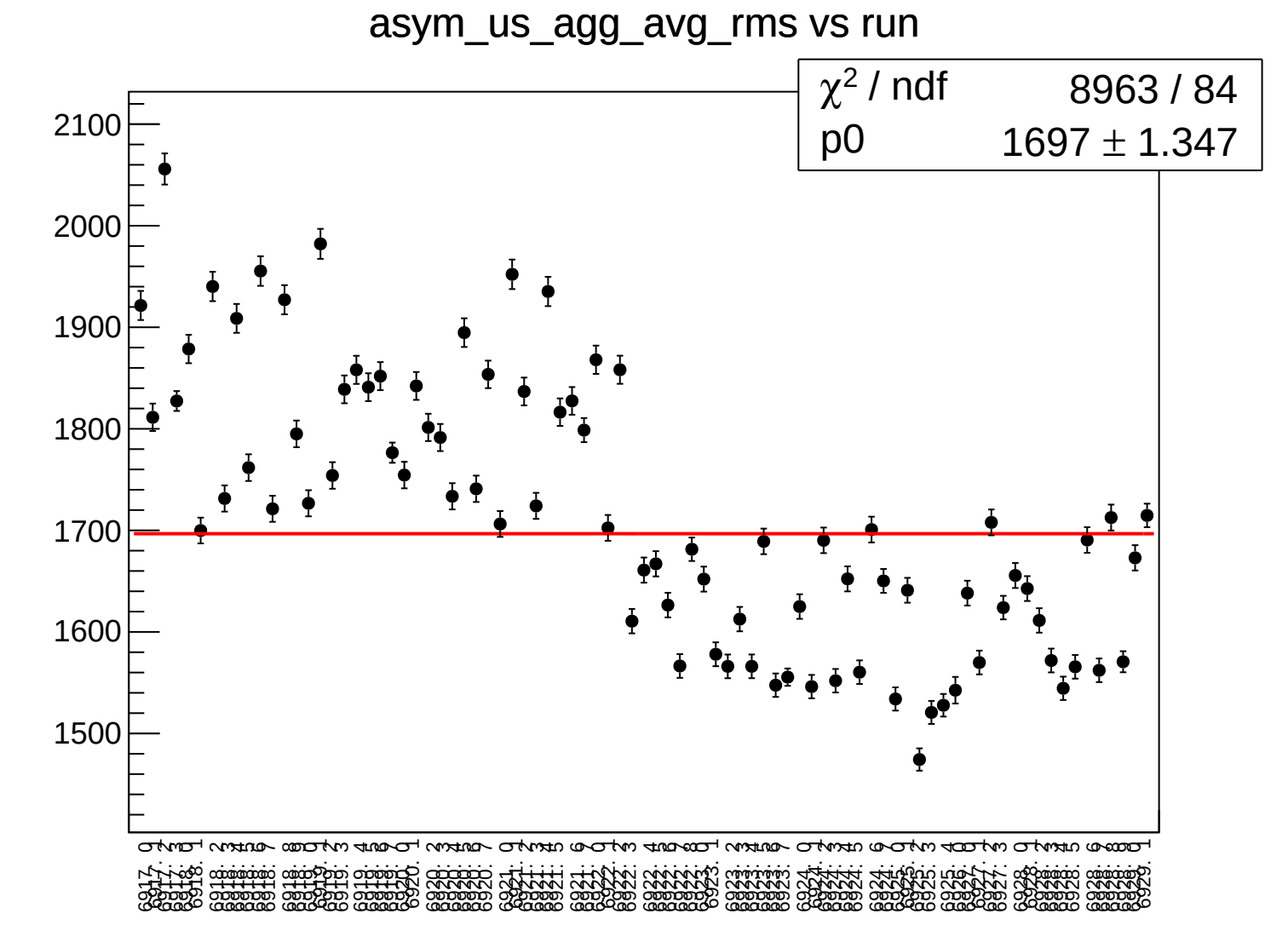

cor_asym_usr_mean vs run
χ² / ndf 58.13 / 84
p0 2848 ± 1228
pull
Entries 85
Mean 44.38
Std Dev 66.27

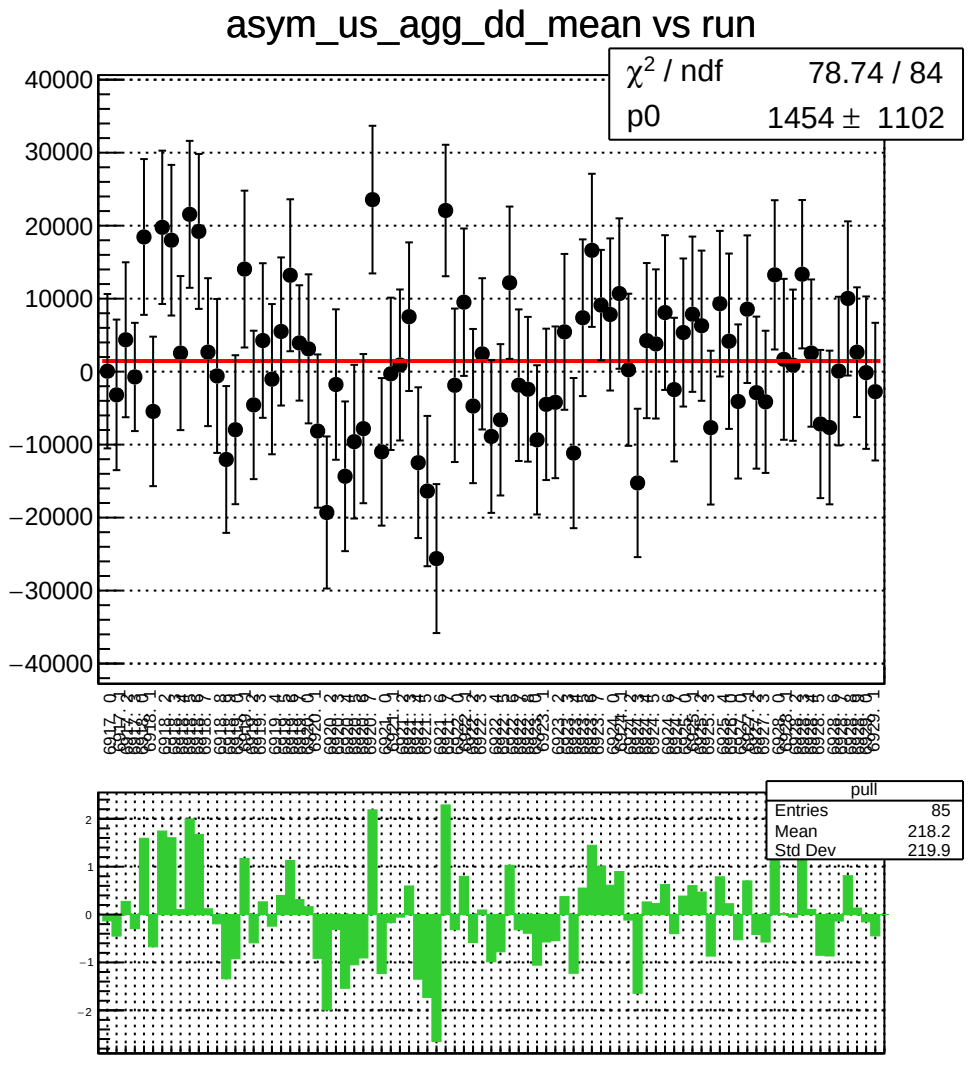

pull1D
Entries 85
Mean −0.004893
Std Dev 0.827

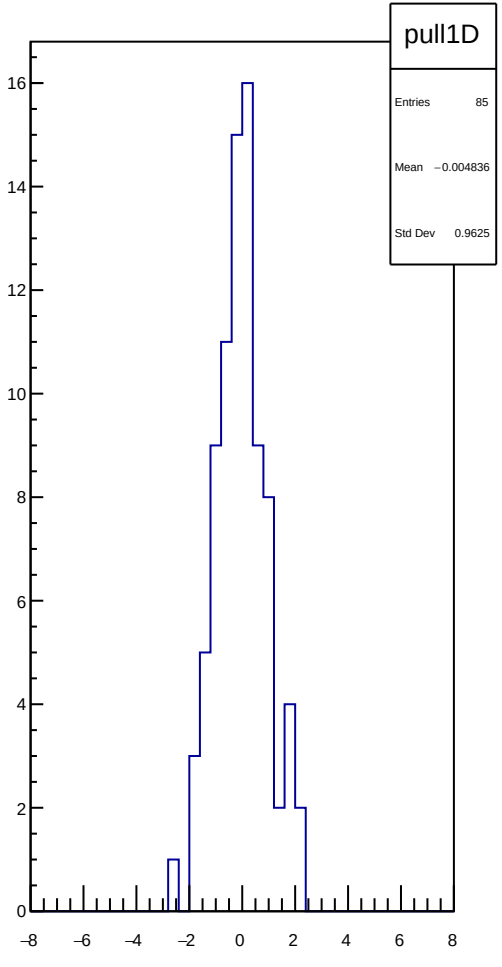

cor_asym_usr_rms vs run
χ² / ndf 104.3 / 84
p0 1096 ± 0.8682
1130
1120
1110
1100
1090
1080
1070
1060

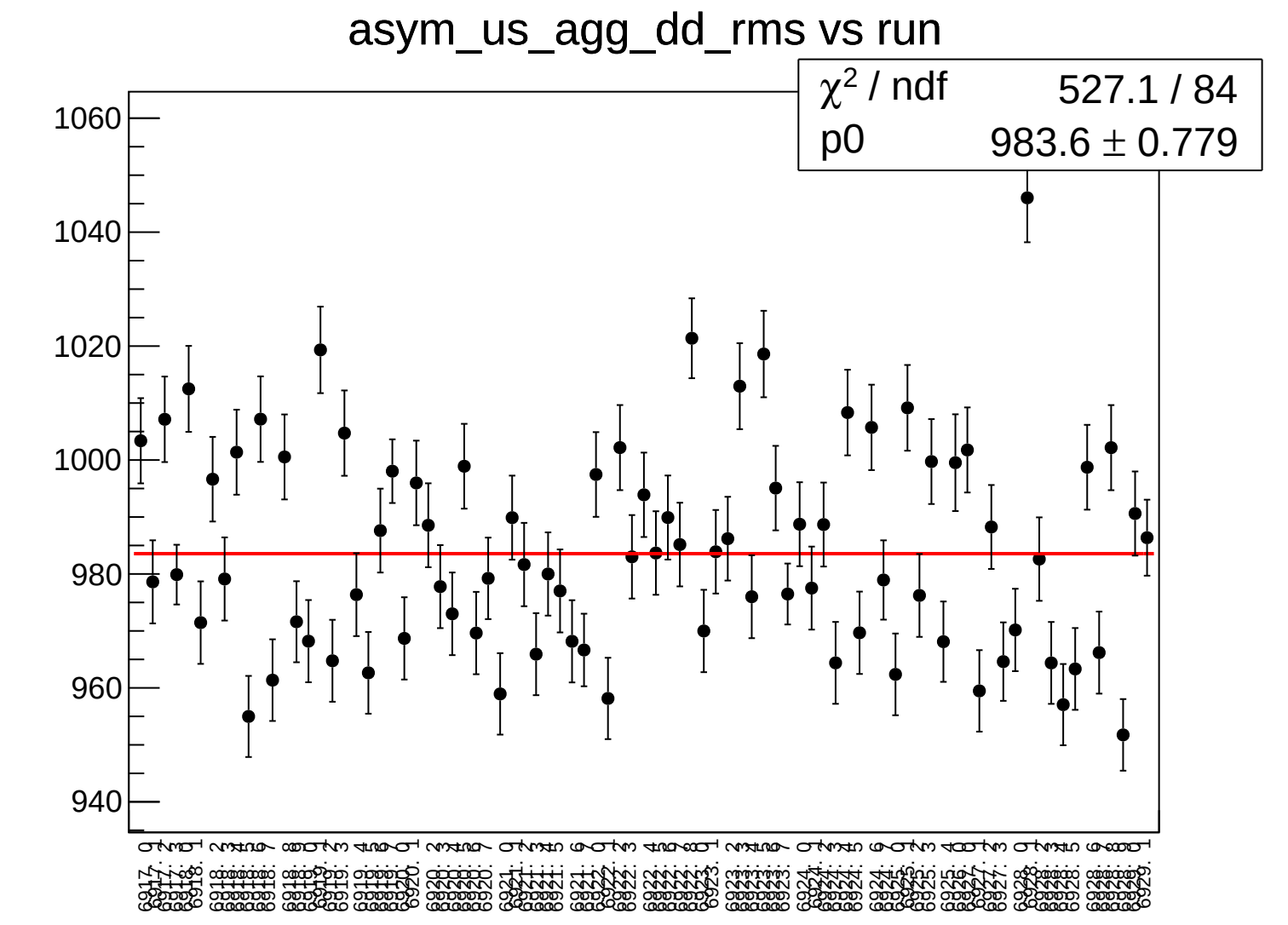

asym_us_agg_avg_mean vs run
χ² / ndf 49.61 / 84
p0 3760 ± 1906
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −266.6
Std Dev 255.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

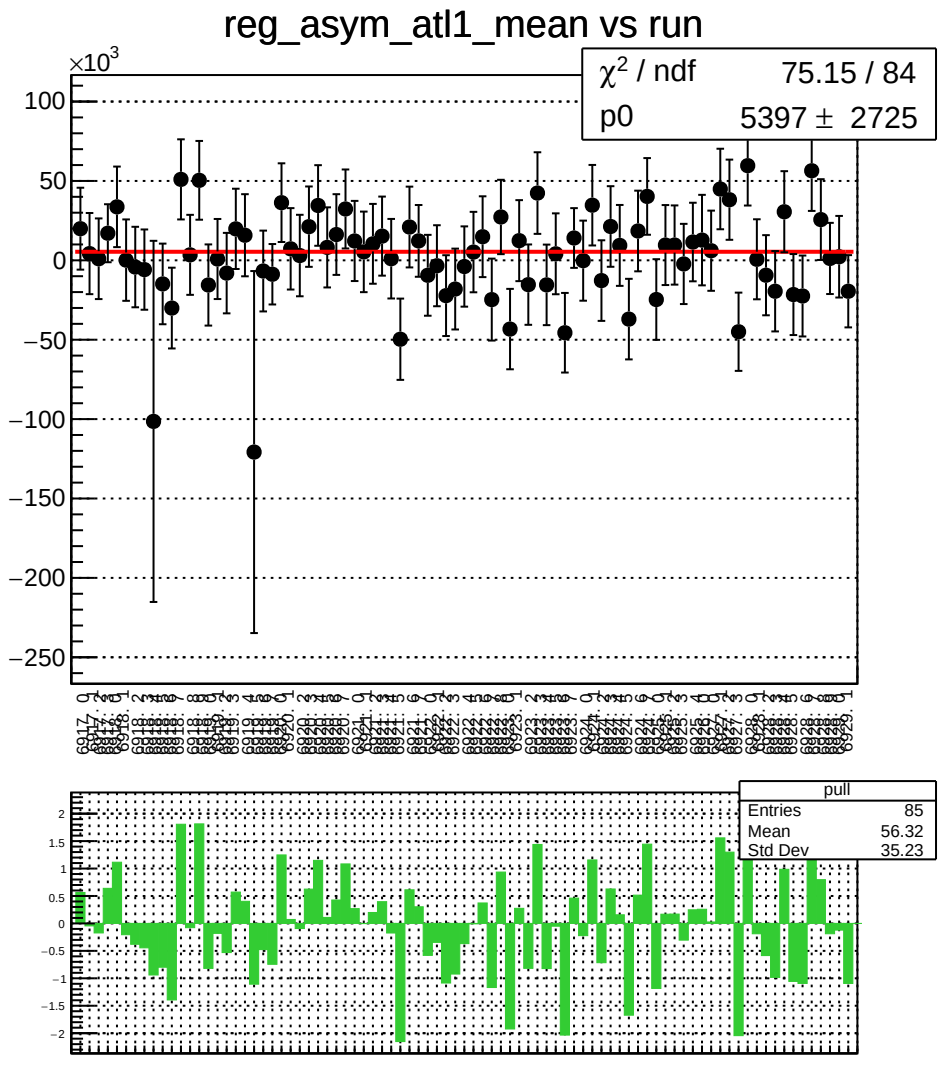

pull1D
Entries 85
Mean 0.001757
Std Dev 0.764
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

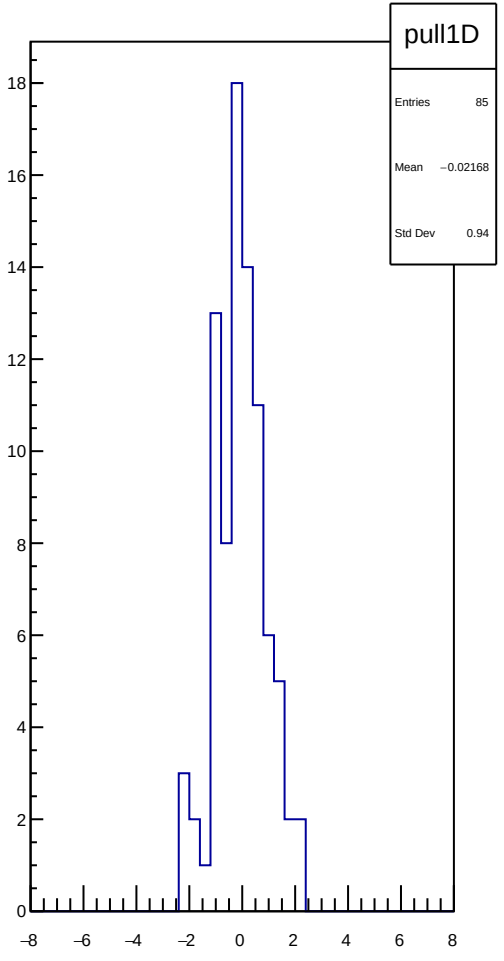

asym_us_agg_avg_rms vs run
χ² / ndf 8963 / 84
p0 1697 ± 1.347
2100
2000
1900
1800
1700
1600
1500

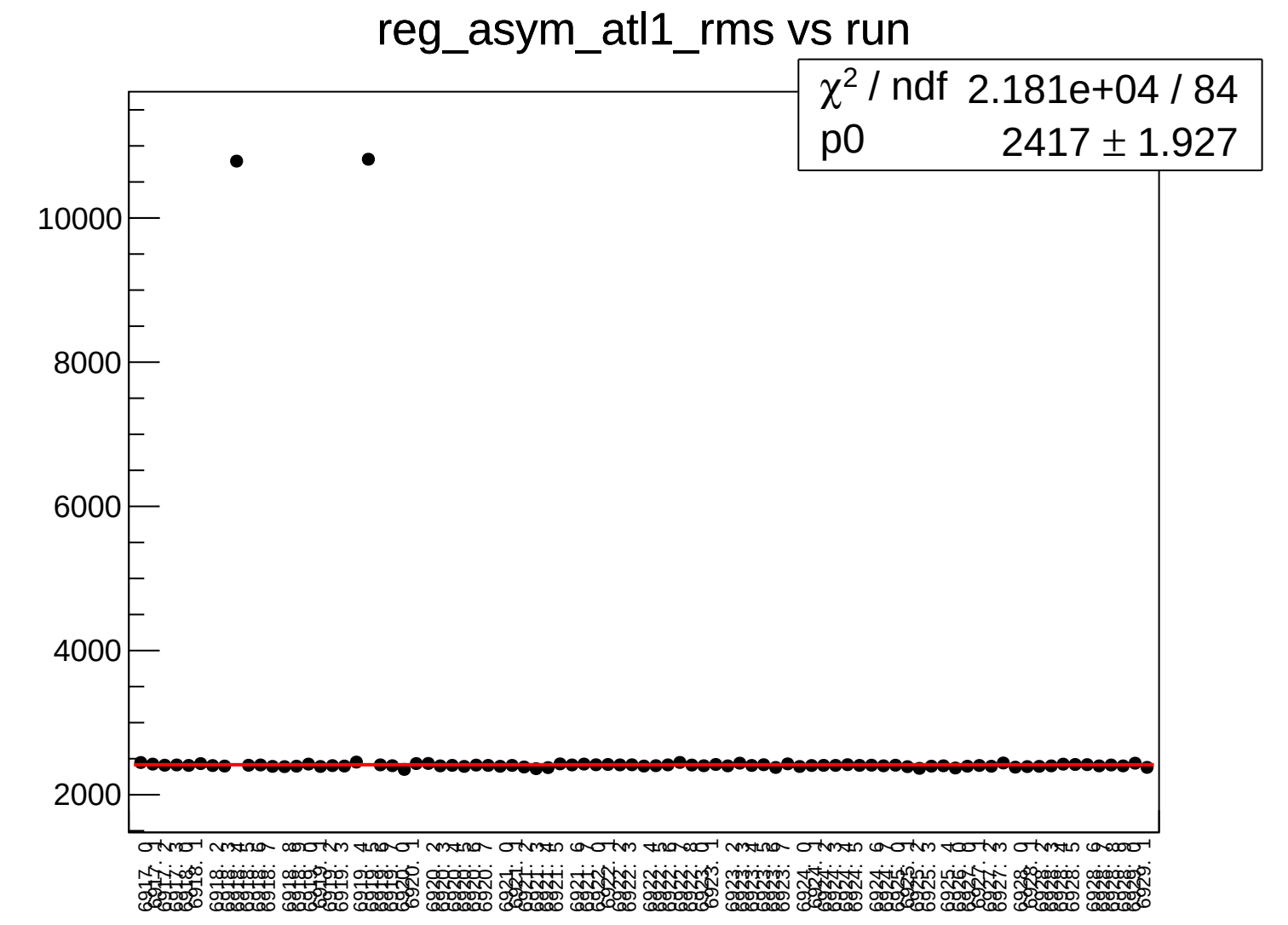

asym_us_agg_dd_mean vs run
χ^2 / ndf 78.74 / 84
p0 1454 ± 1102
pull
Entries 85
Mean 218.2
Std Dev 219.9

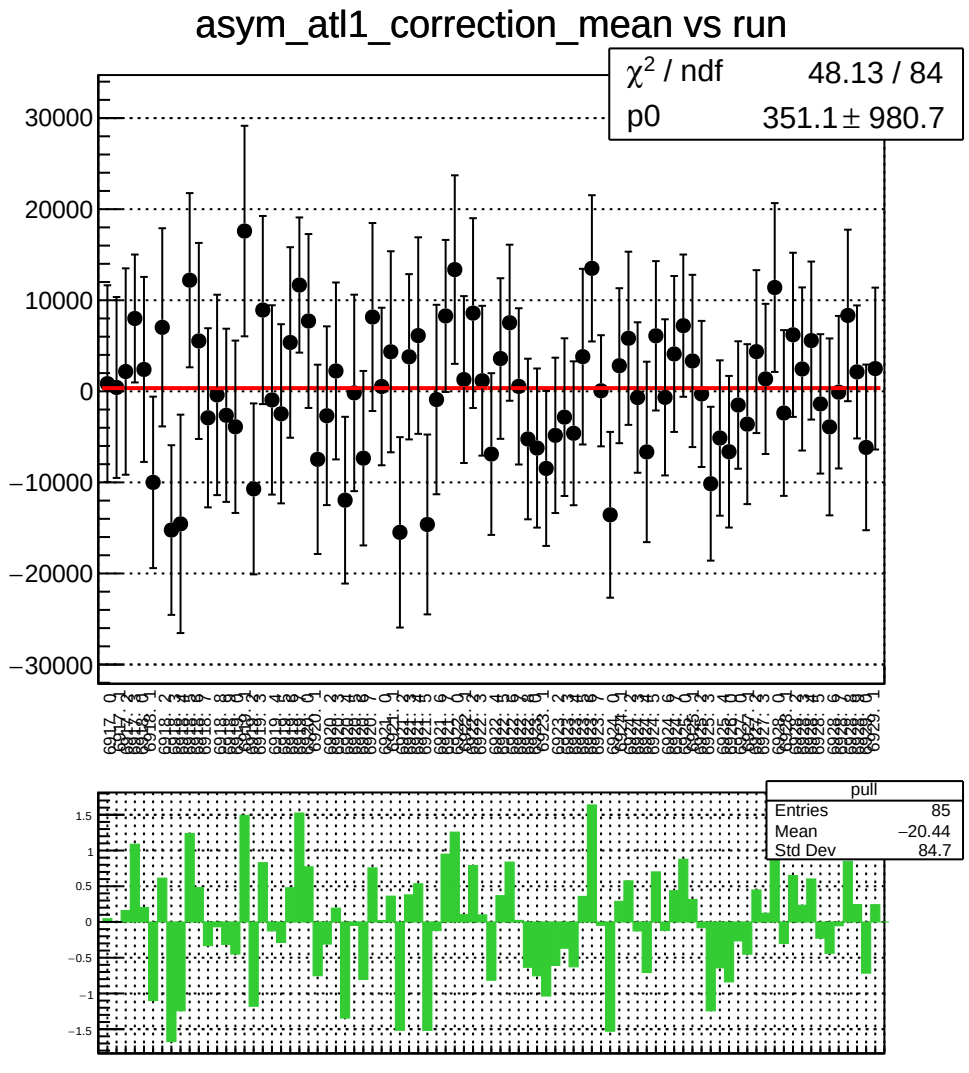

pull1D
Entries 85
Mean −0.004836
Std Dev 0.9625

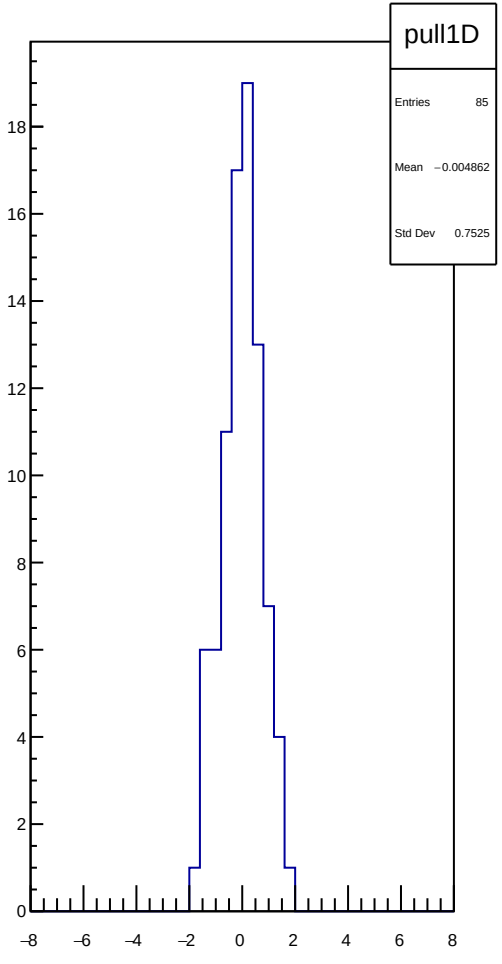

asym_us_agg_dd_rms vs run
χ^2 / ndf 527.1 / 84
p0 983.6 ± 0.779
1060
1040
1020
1000
980
960
940

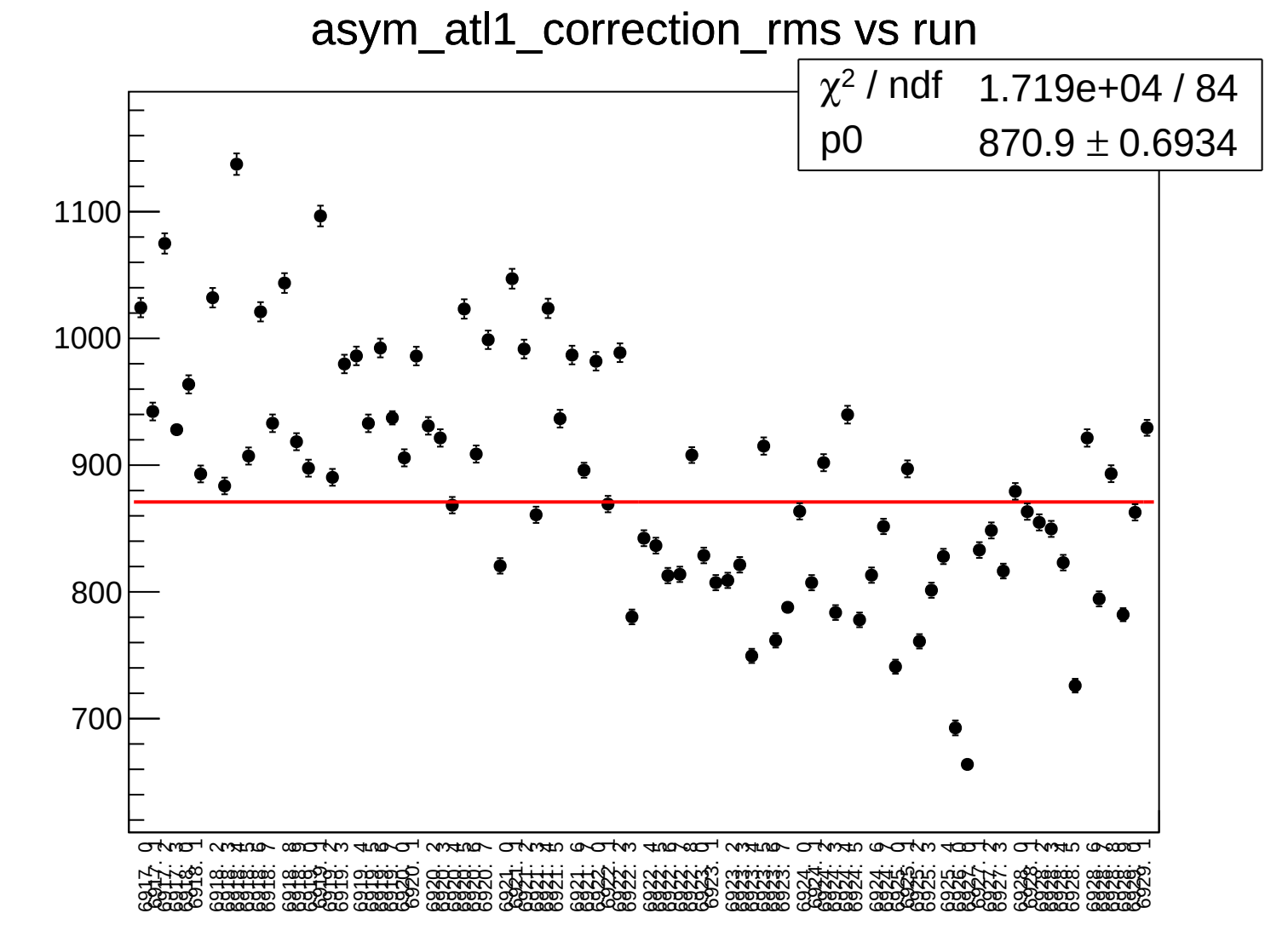

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 75.15 / 84
p0 5397 ± 2725
pull
Entries 85
Mean 56.32
Std Dev 35.23

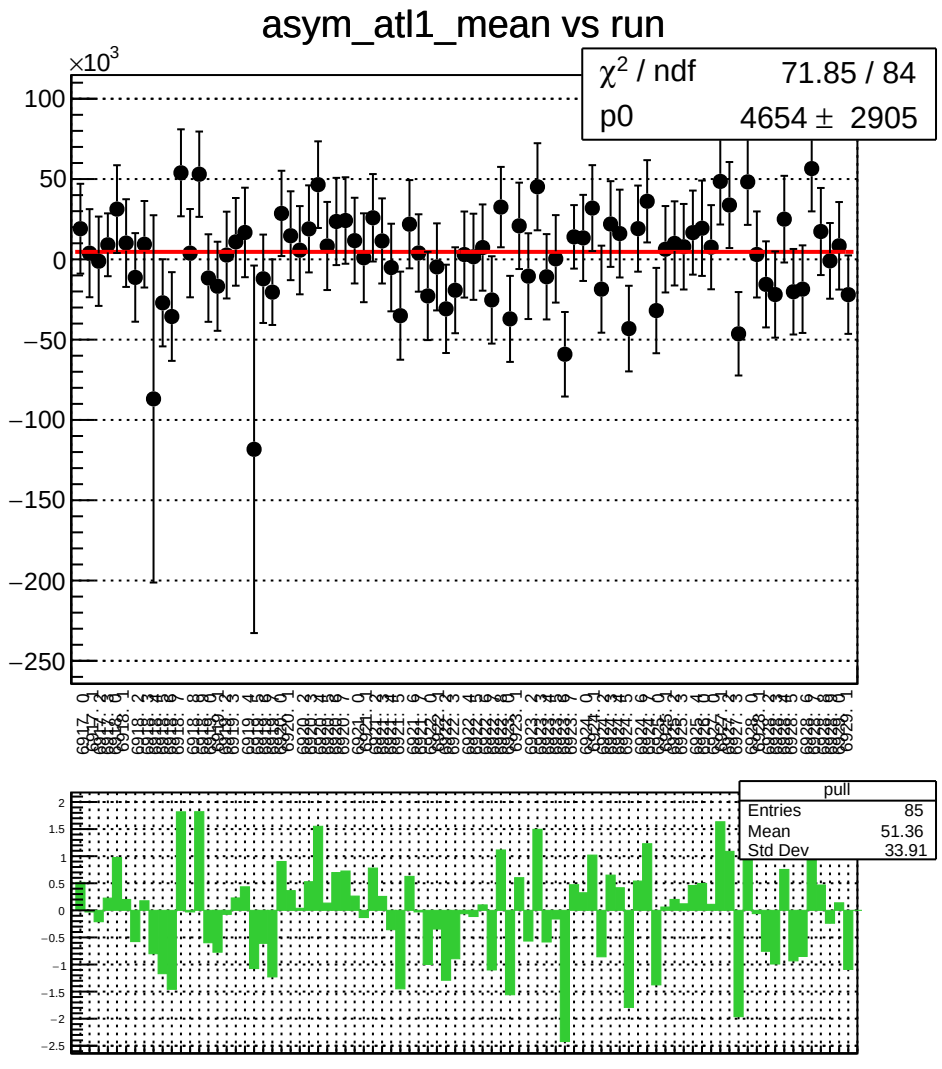

pull1D
Entries 85
Mean −0.02168
Std Dev 0.94

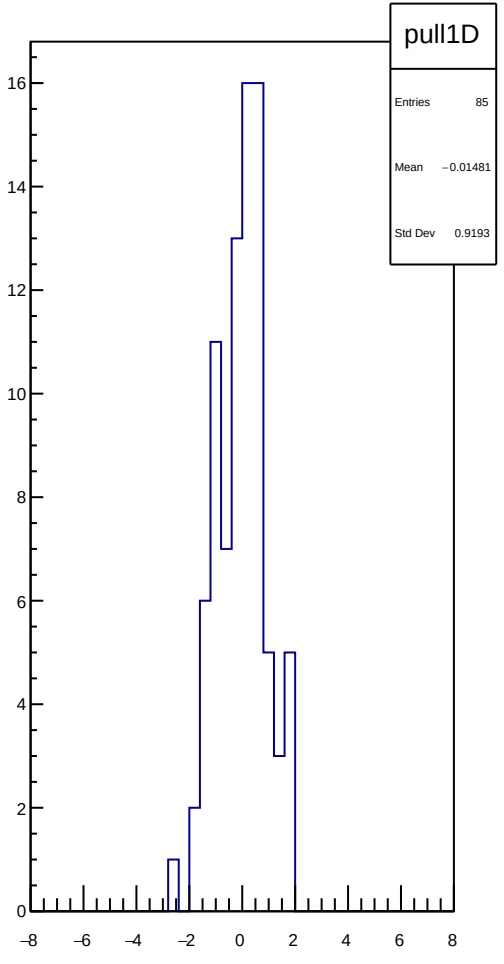

reg_asym_atl1_rms vs run
χ^2 / ndf 2.181e+04 / 84
p0 2417 ± 1.927
10000
8000
6000
4000
2000

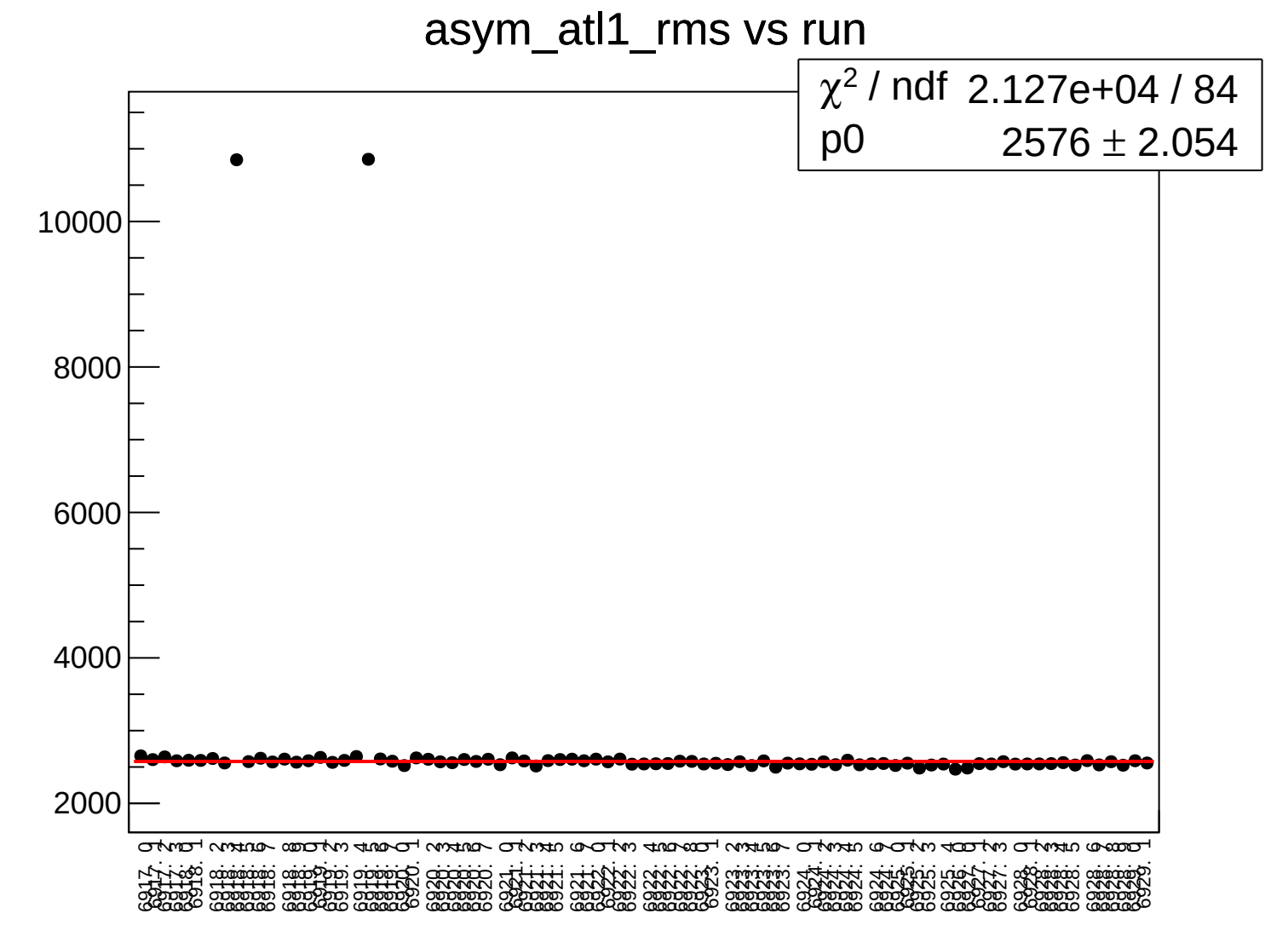

asym_atl1_correction_mean vs run
χ² / ndf 48.13 / 84
p0 351.1 ± 980.7
pull
Entries 85
Mean −20.44
Std Dev 84.7

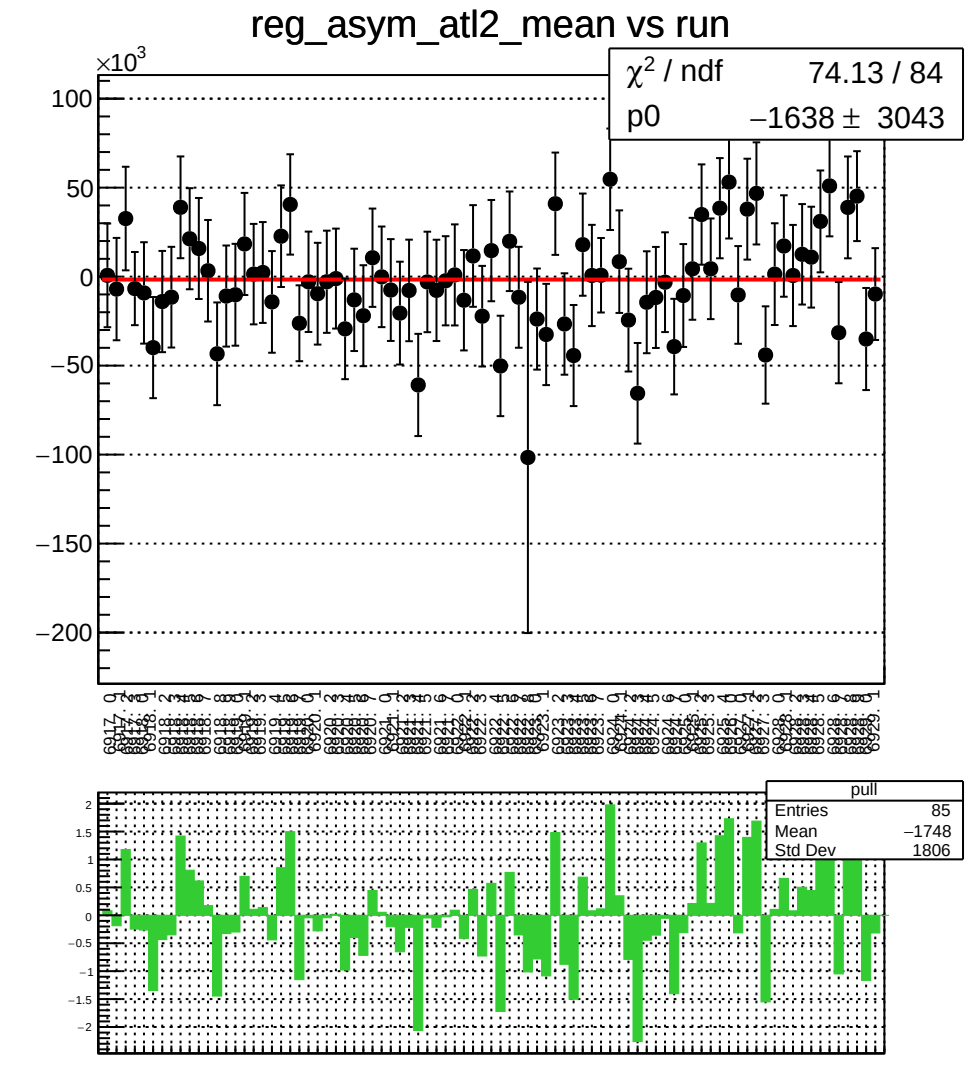

pull1D
Entries 85
Mean −0.004862
Std Dev 0.7525

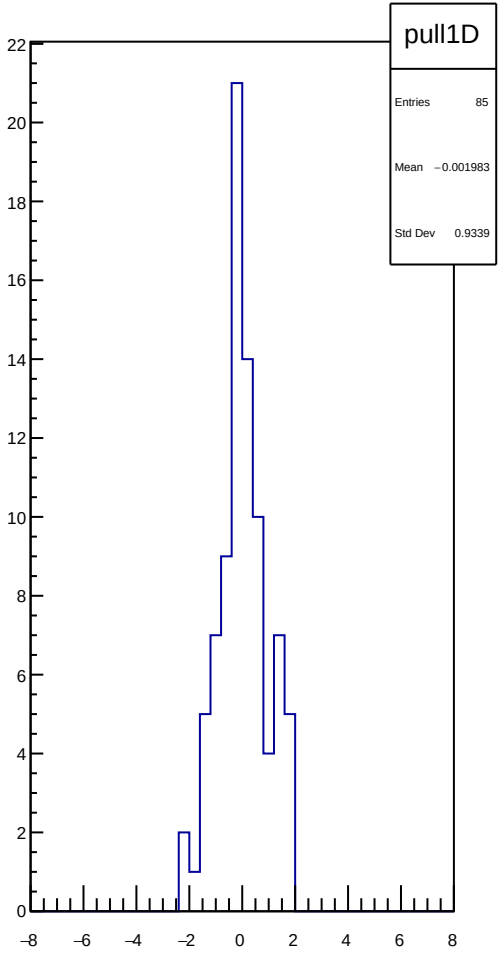

asym_atl1_correction_rms vs run
χ² / ndf 1.719e+04 / 84
p0 870.9 ± 0.6934
1100
1000
900
800
700

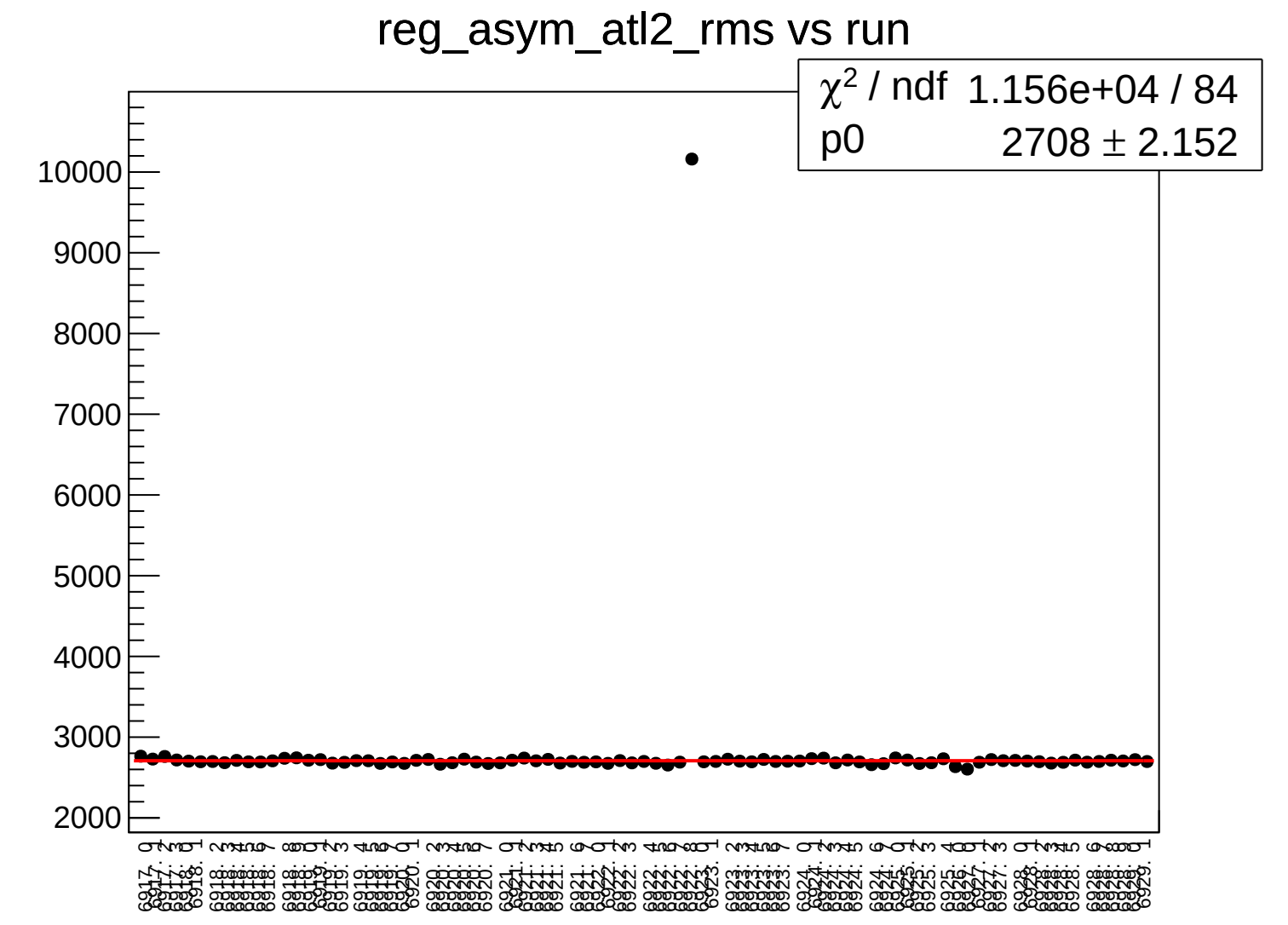

asym_atl1_mean vs run
×10^3
χ^2 / ndf 71.85 / 84
p0 4654 ± 2905
pull
Entries 85
Mean 51.36
Std Dev 33.91

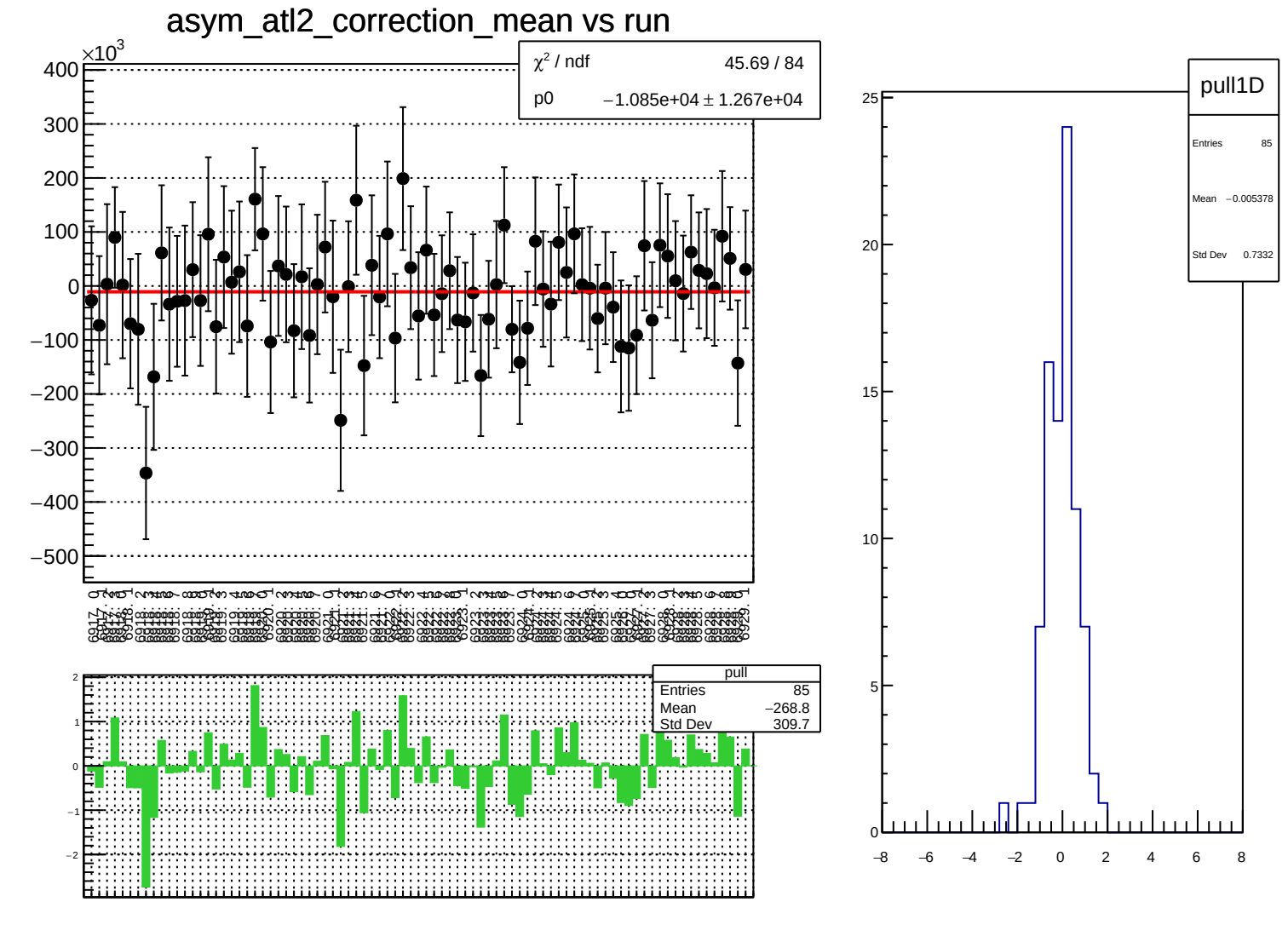

pull1D
Entries 85
Mean −0.01481
Std Dev 0.9193

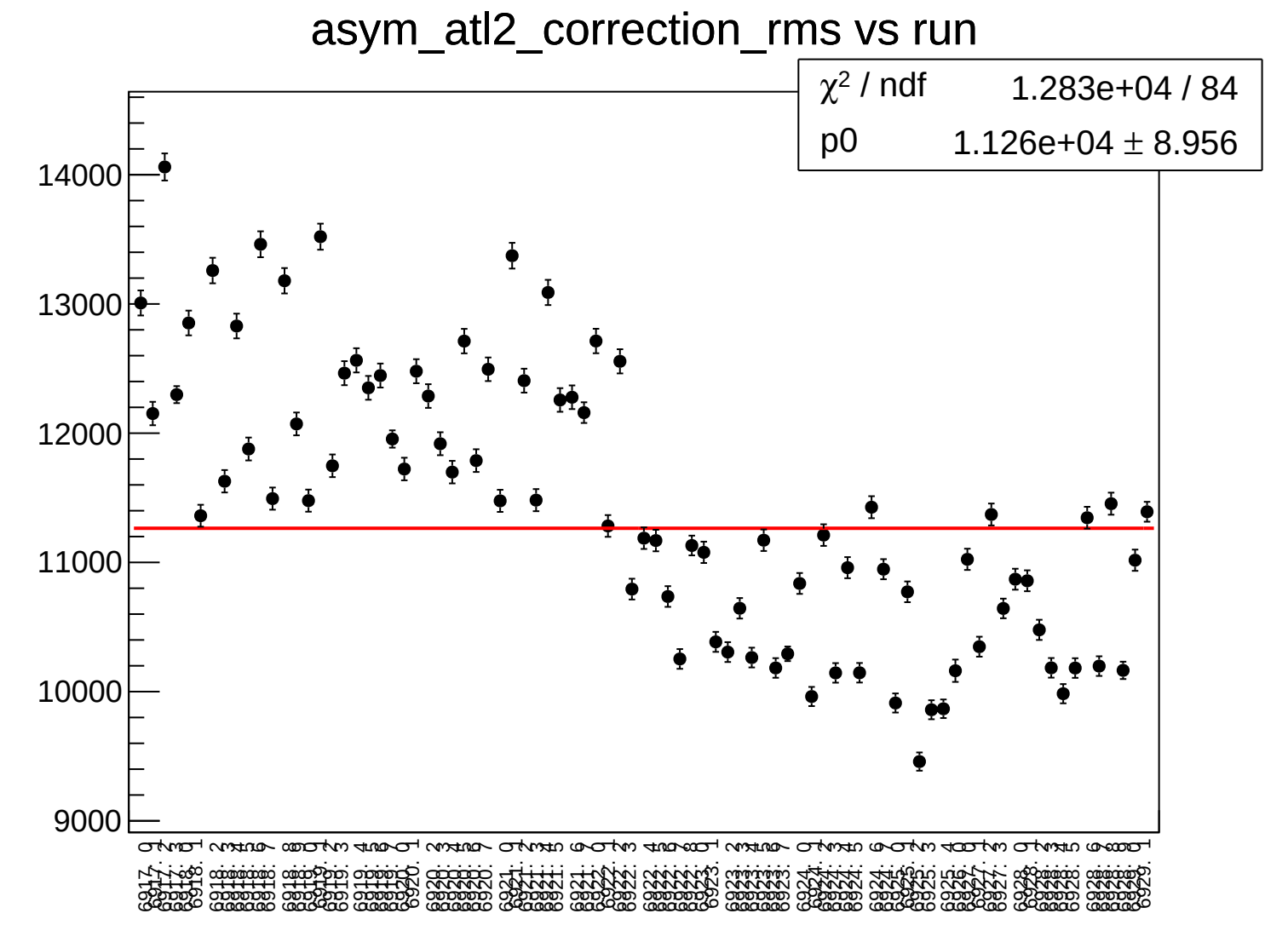

asym_atl1_rms vs run
χ² / ndf 2.127e+04 / 84
p0 2576 ± 2.054
10000
8000
6000
4000
2000

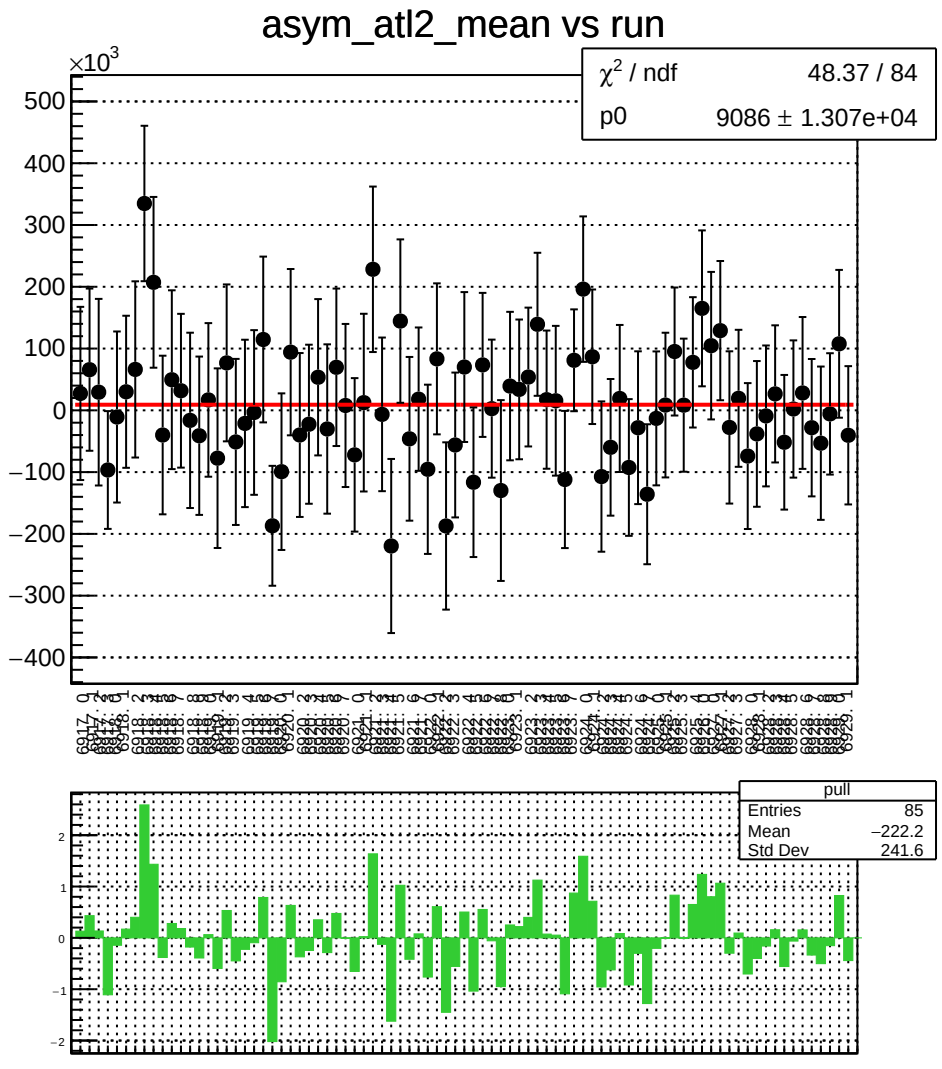

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 74.13 / 84
p0 −1638 ± 3043
pull
Entries 85
Mean −1748
Std Dev 1806

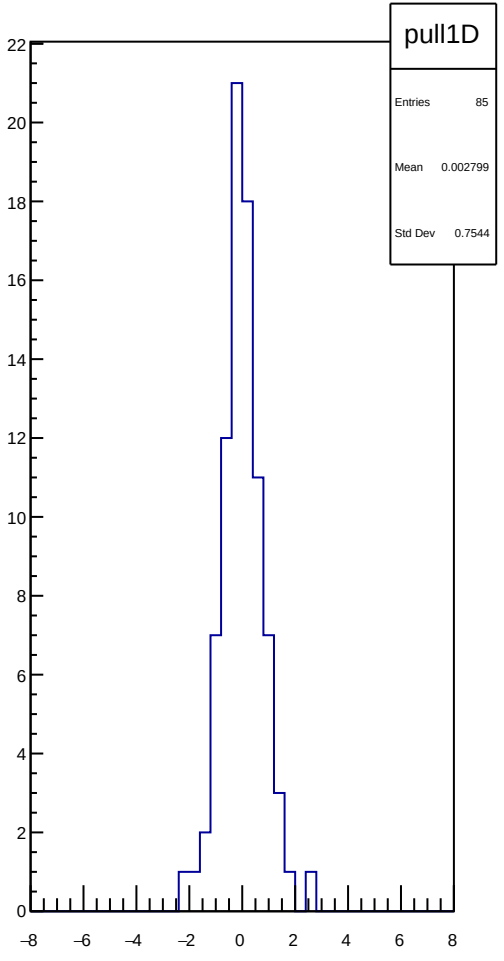

pull1D
Entries 85
Mean −0.001983
Std Dev 0.9339

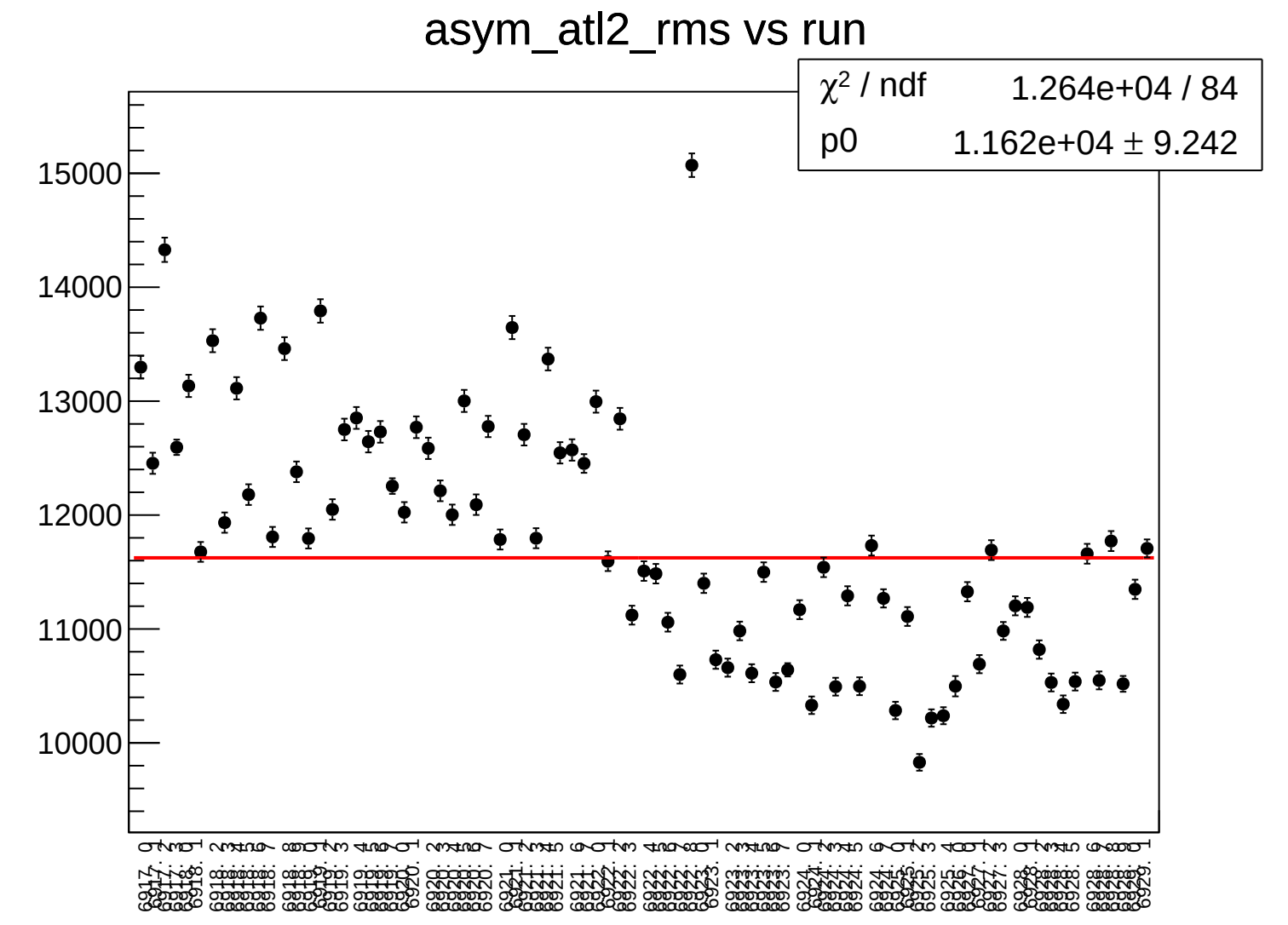

reg_asym_atl2_rms vs run
χ^2 / ndf 1.156e+04 / 84
p0 2708 ± 2.152
10000
9000
8000
7000
6000
5000
4000
3000
2000

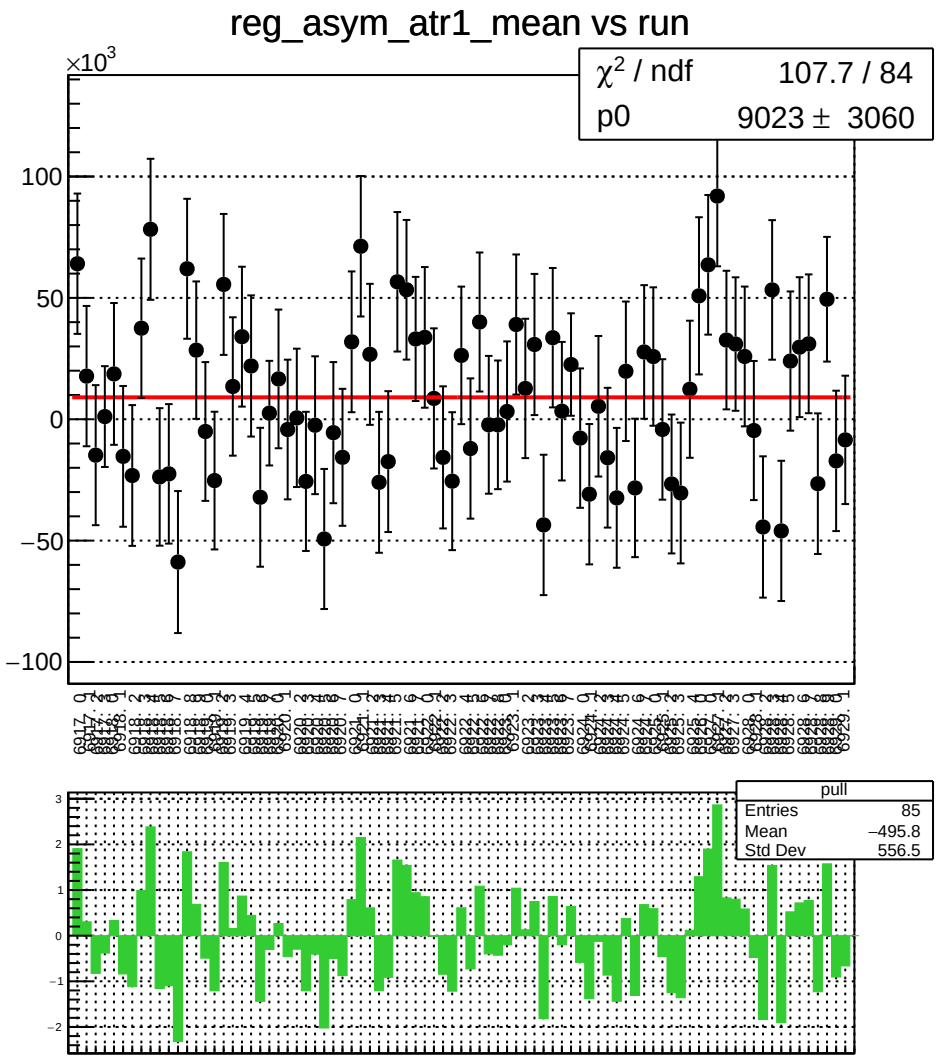

asym_atl2_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
−500
χ² / ndf 45.69 / 84
p0 −1.085e+04 ± 1.267e+04
pull
Entries 85
Mean −268.8
Std Dev 309.7
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.005378
Std Dev 0.7332
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

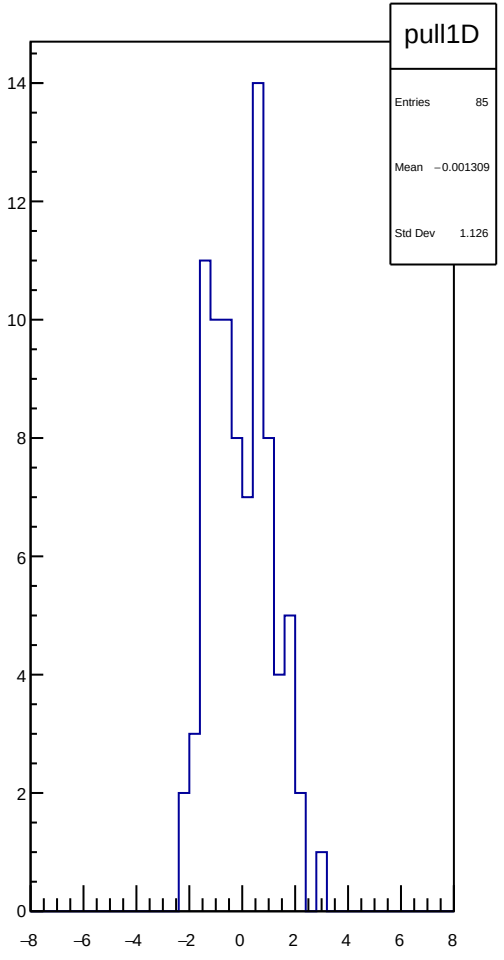

asym_atl2_correction_rms vs run
χ² / ndf 1.283e+04 / 84
p0 1.126e+04 ± 8.956
14000
13000
12000
11000
10000
9000

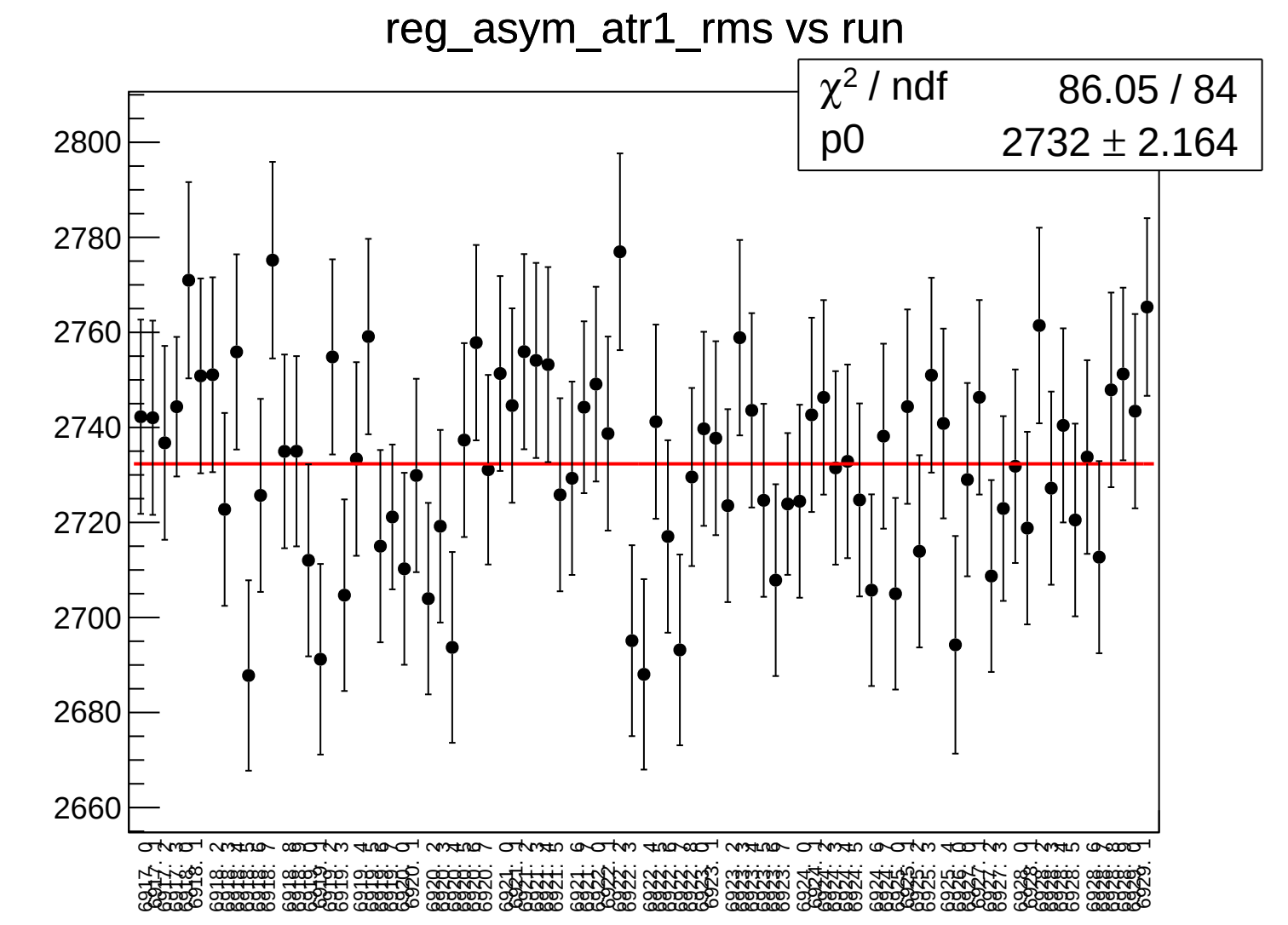

asym_atl2_mean vs run
×10^3
χ² / ndf 48.37 / 84
p0 9086 ± 1.307e+04
pull
Entries 85
Mean −222.2
Std Dev 241.6

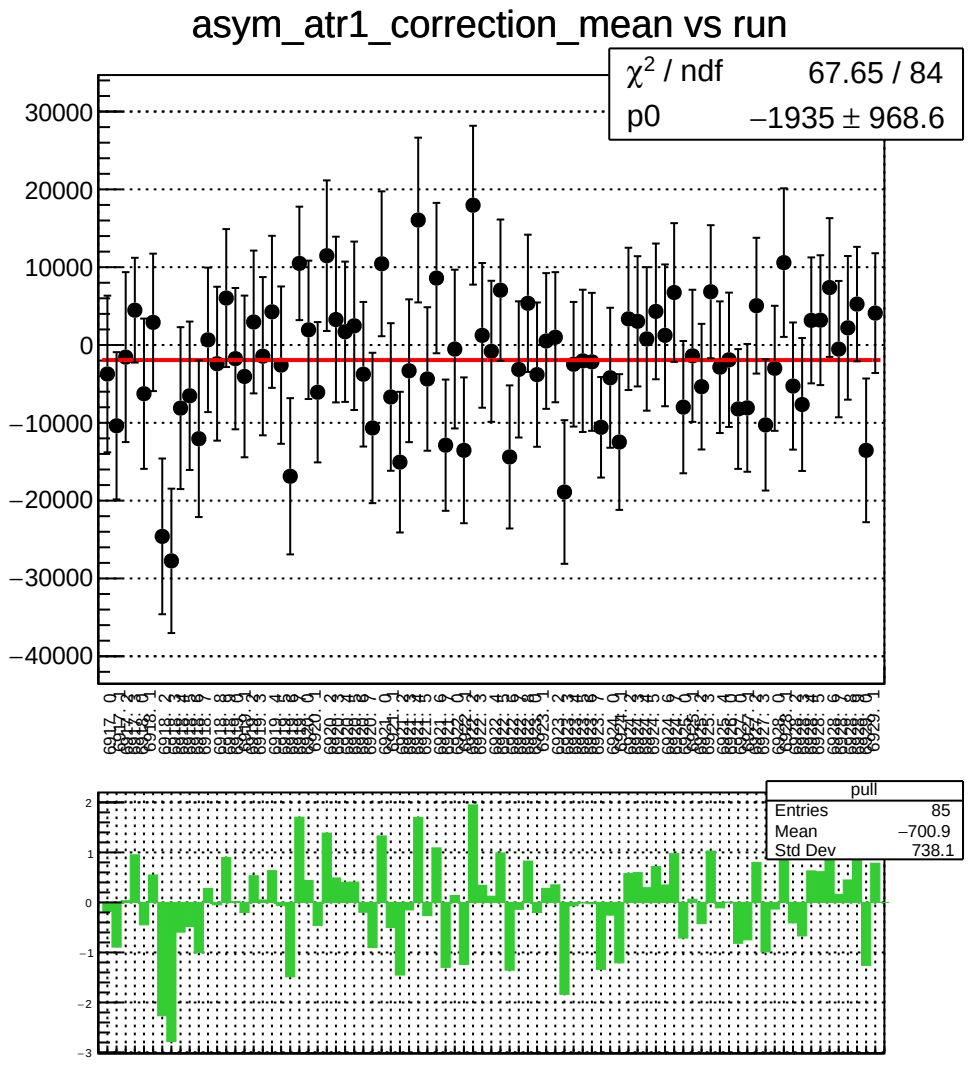

pull1D
Entries 85
Mean 0.002799
Std Dev 0.7544

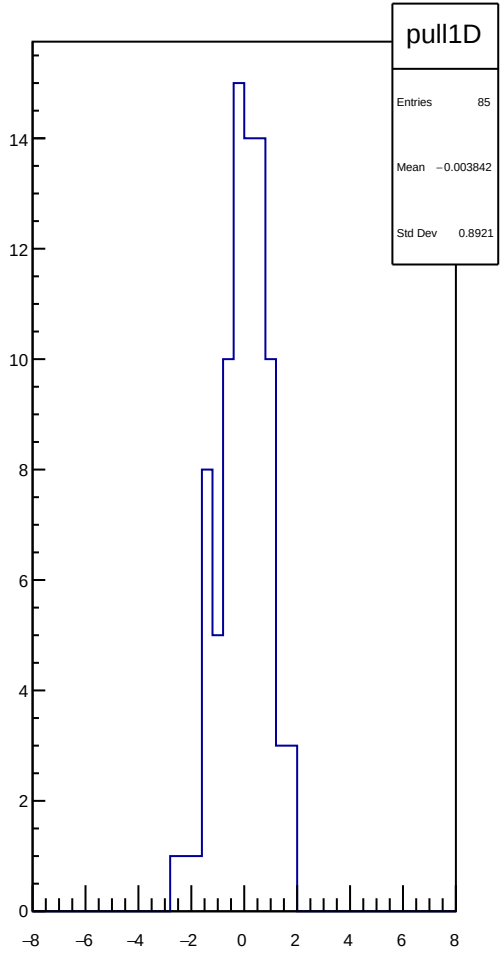

asym_atl2_rms vs run
χ² / ndf 1.264e+04 / 84
p0 1.162e+04 ± 9.242
15000
14000
13000
12000
11000
10000

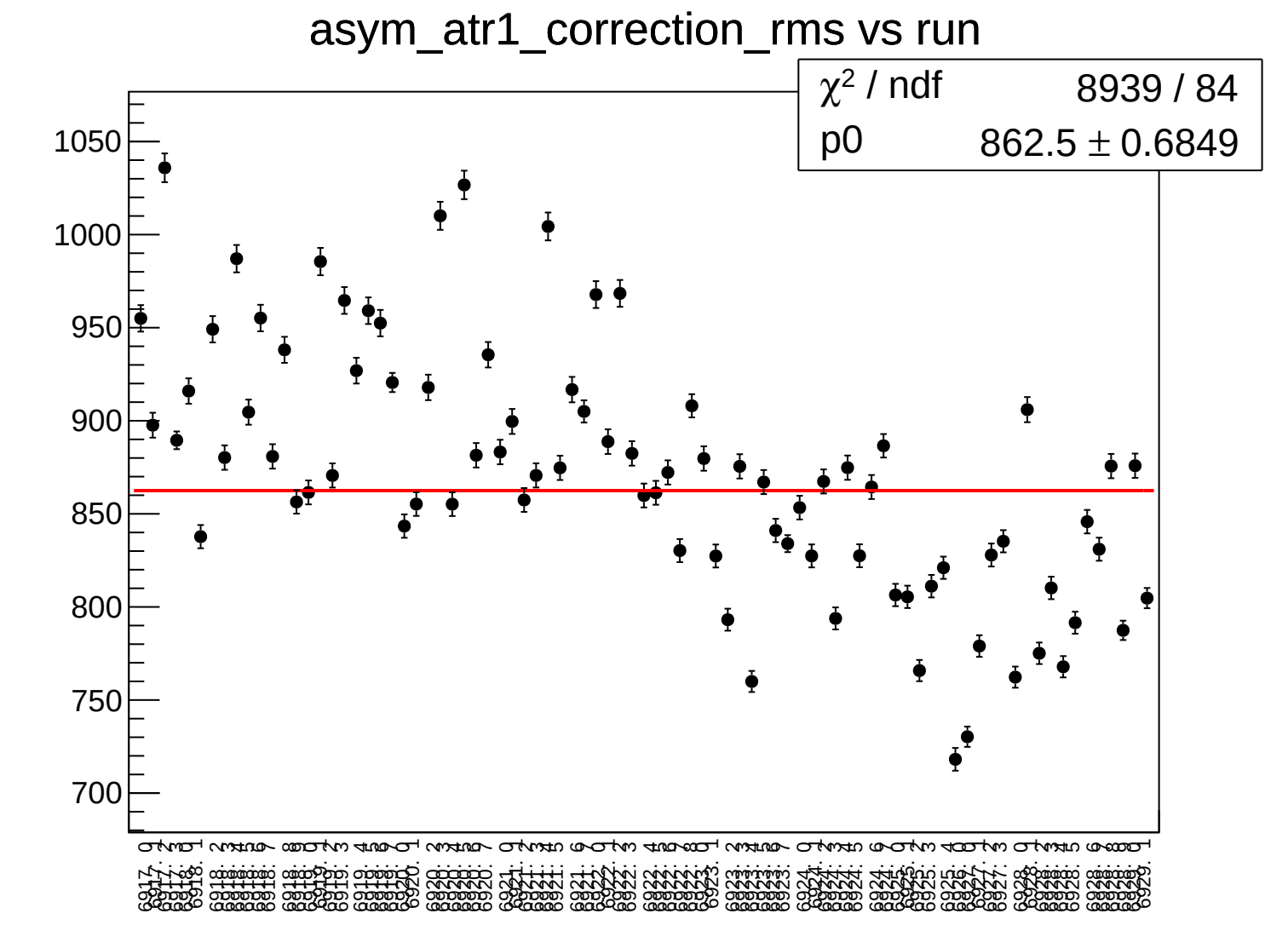

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 107.7 / 84
p0 9023 ± 3060
100
50
0
−50
−100
pull
Entries 85
Mean −495.8
Std Dev 556.5
3
2
1
0
−1
−2

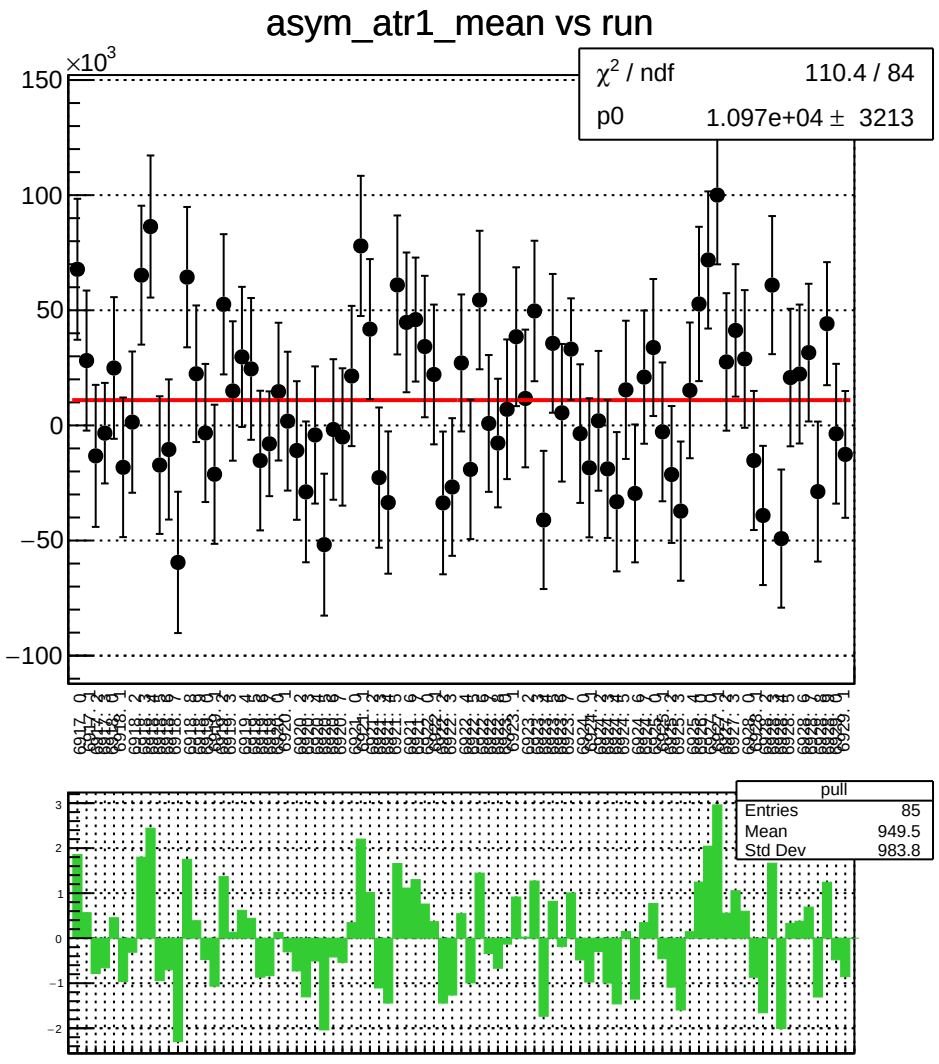

pull1D
Entries 85
Mean −0.001309
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

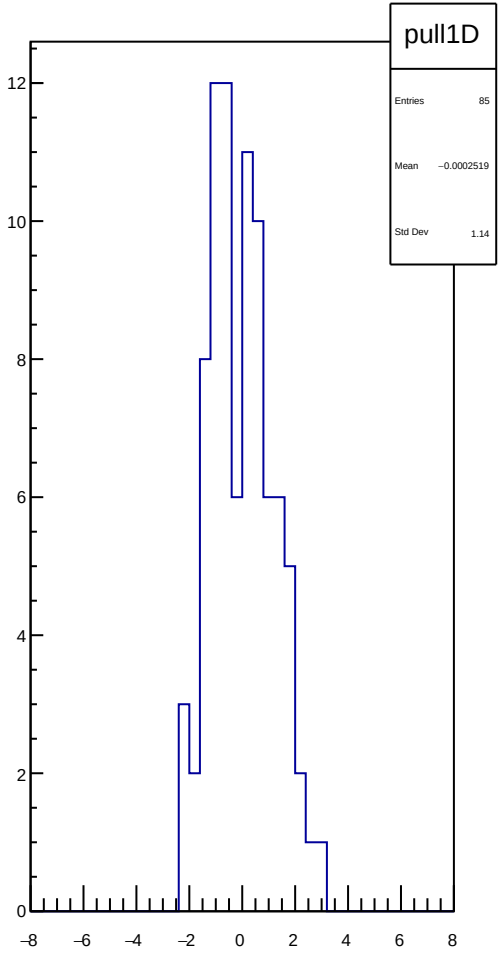

reg_asym_atr1_rms vs run
χ^2 / ndf 86.05 / 84
p0 2732 ± 2.164
2800
2780
2760
2740
2720
2700
2680
2660

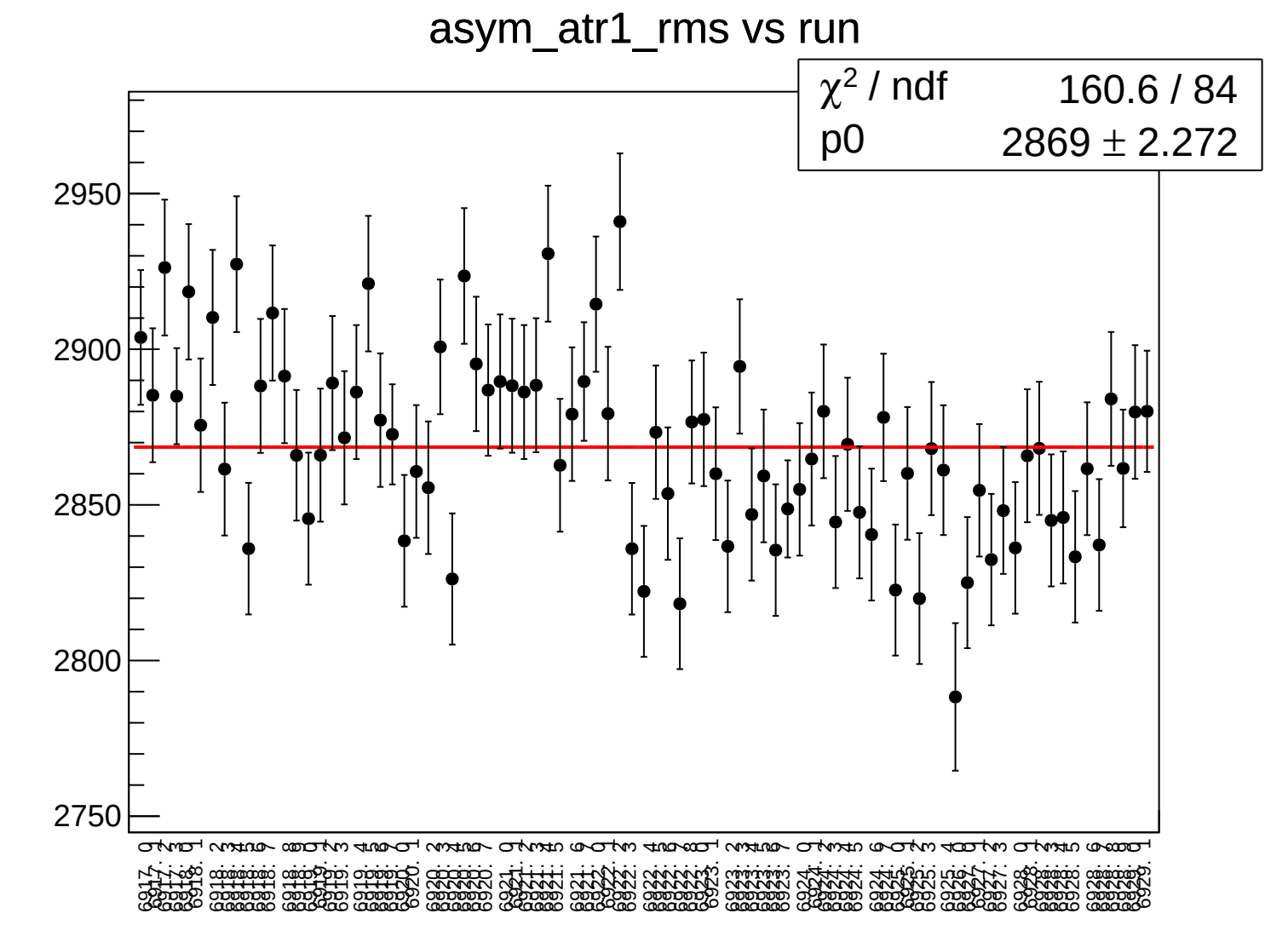

asym_atr1_correction_mean vs run
χ² / ndf 67.65 / 84
p0 −1935 ± 968.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean −700.9
Std Dev 738.1
2
1
0
−1
−2
−3

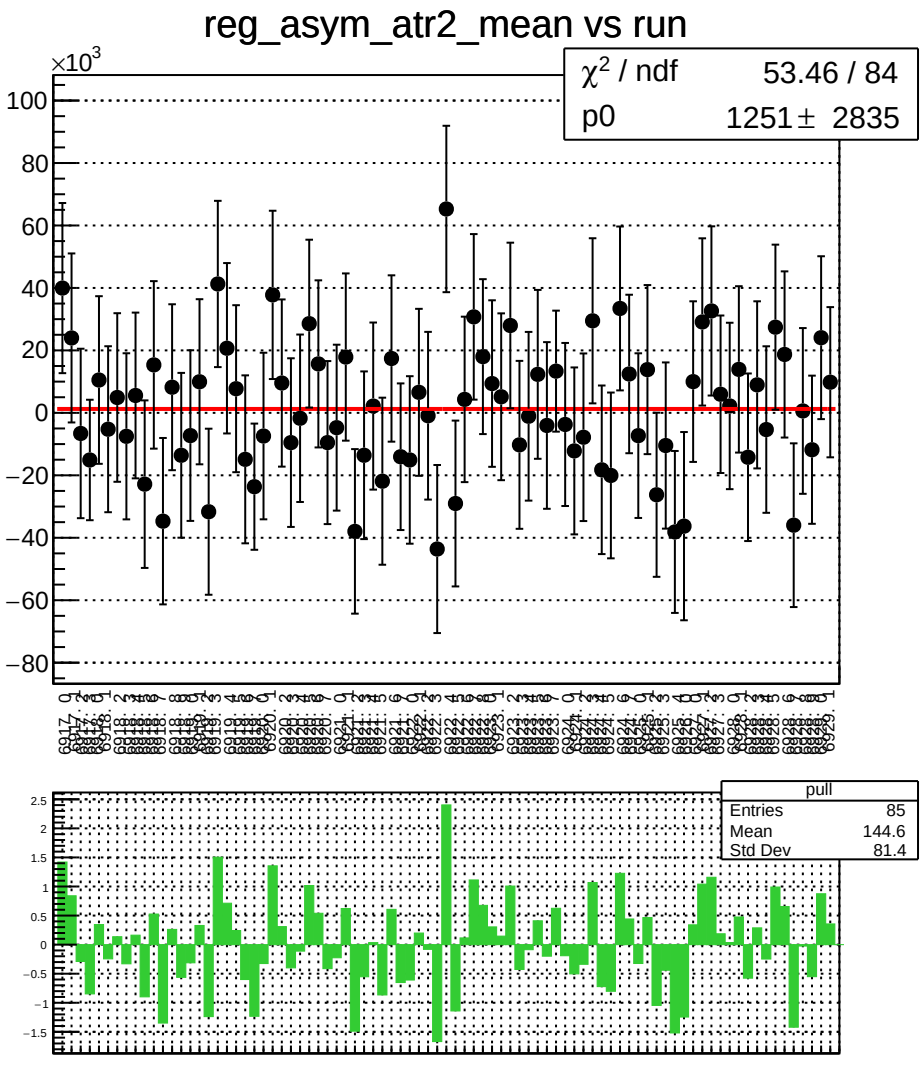

pull1D
Entries 85
Mean −0.003842
Std Dev 0.8921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

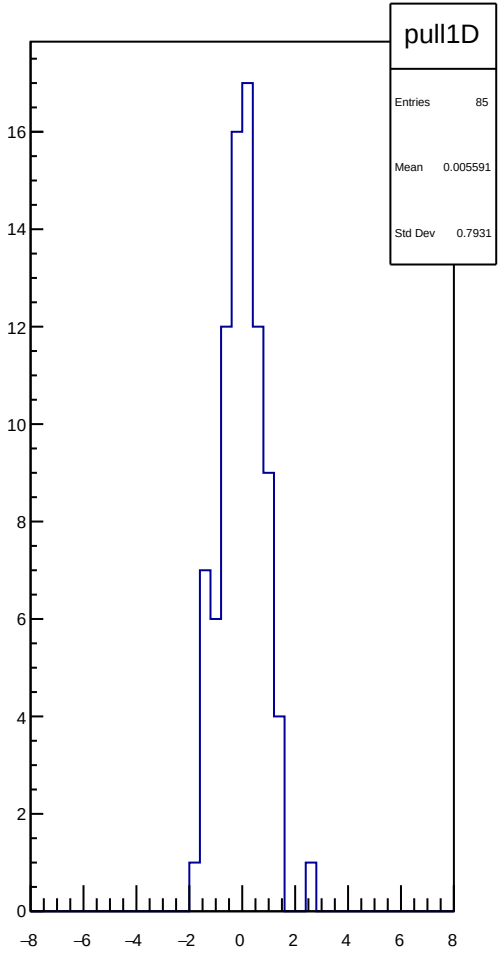

asym_atr1_correction_rms vs run
χ² / ndf 8939 / 84
p0 862.5 ± 0.6849
1050
1000
950
900
850
800
750
700

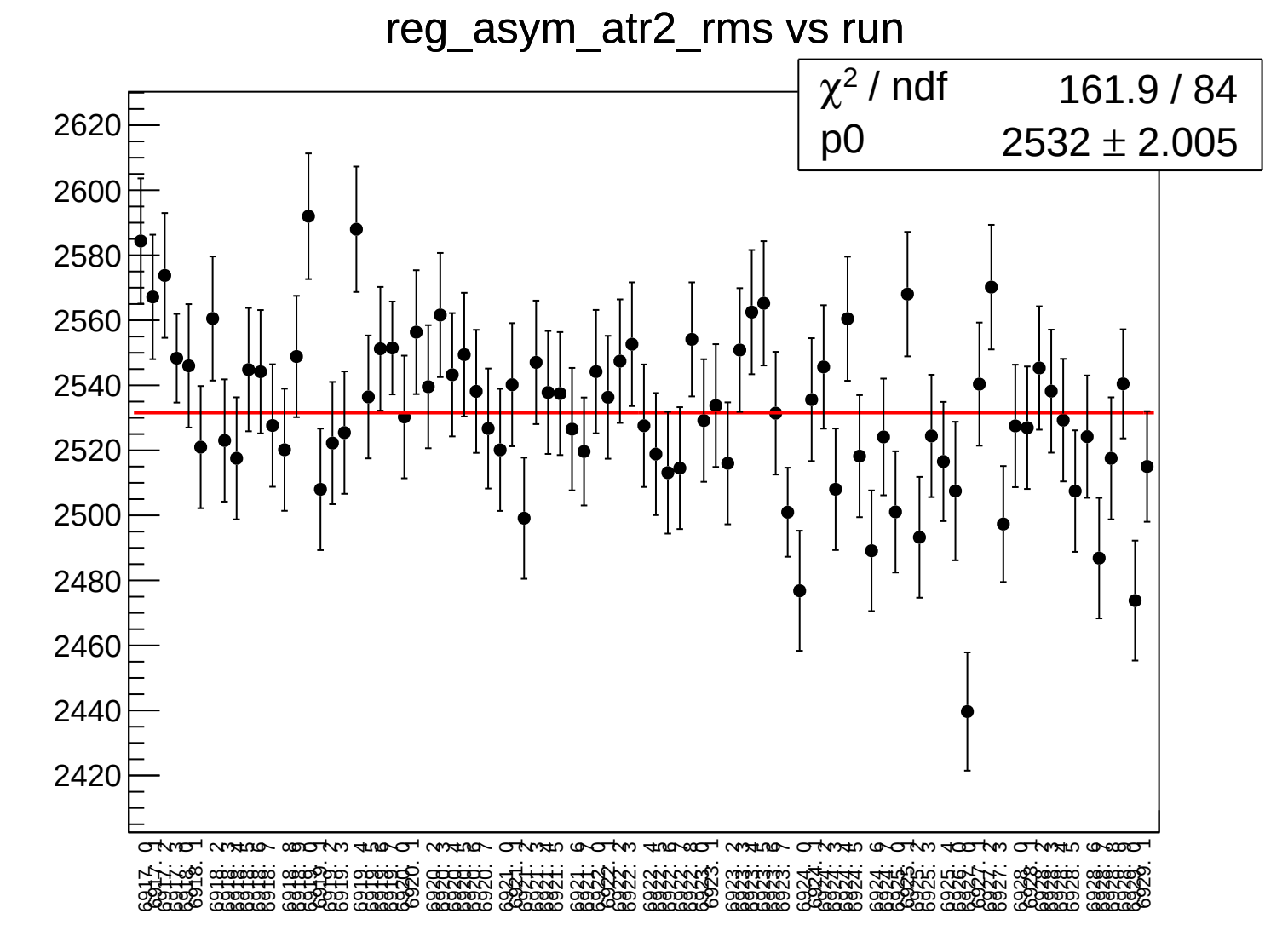

asym_atr1_mean vs run
×10^3
χ² / ndf 110.4 / 84
p0 1.097e+04 ± 3213
150
100
50
0
−50
−100
pull
Entries 85
Mean 949.5
Std Dev 983.8
3
2
1
0
−1
−2

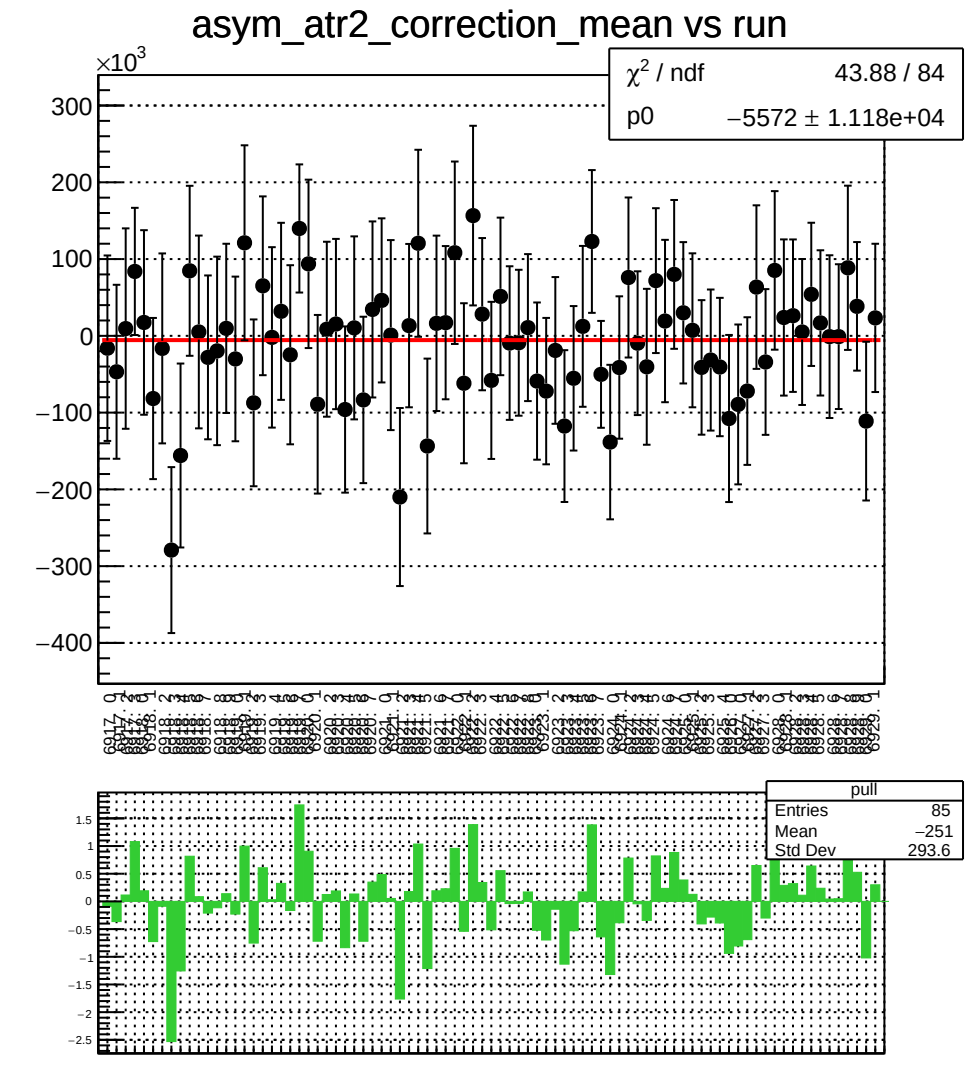

pull1D
Entries 85
Mean −0.0002519
Std Dev 1.14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

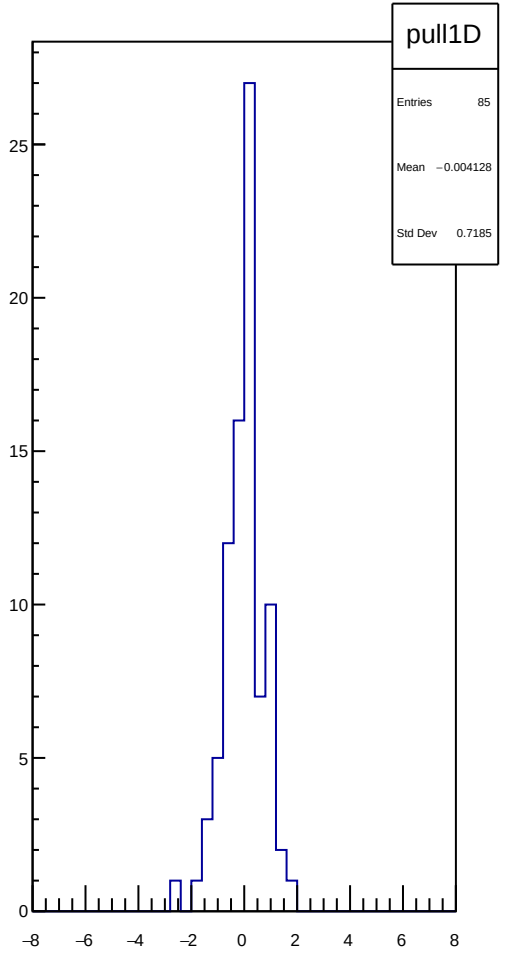

asym_atr1_rms vs run
χ^2 / ndf 160.6 / 84
p0 2869 ± 2.272
2950
2900
2850
2800
2750

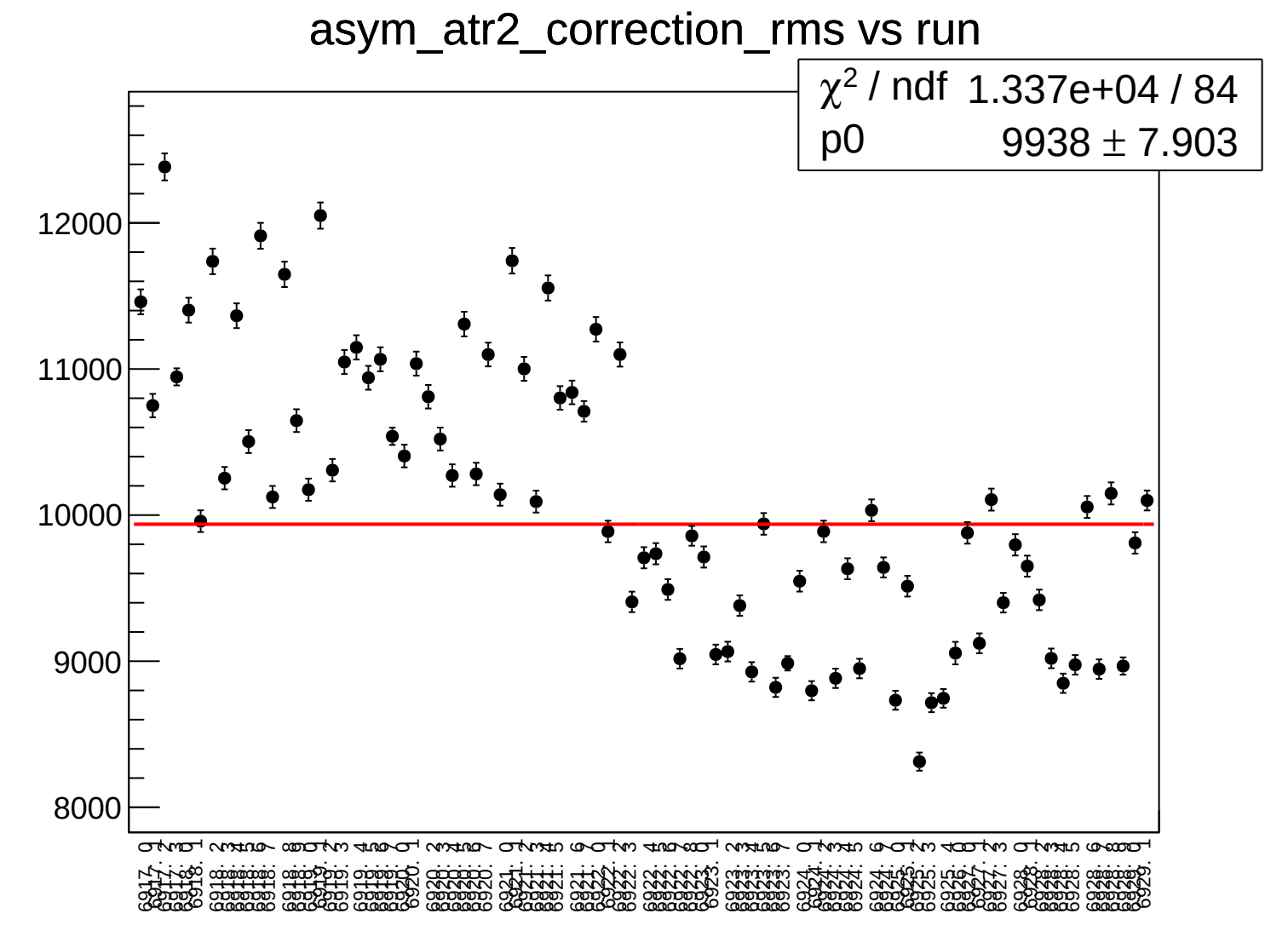

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 53.46 / 84
p0 1251 ± 2835
pull
Entries 85
Mean 144.6
Std Dev 81.4

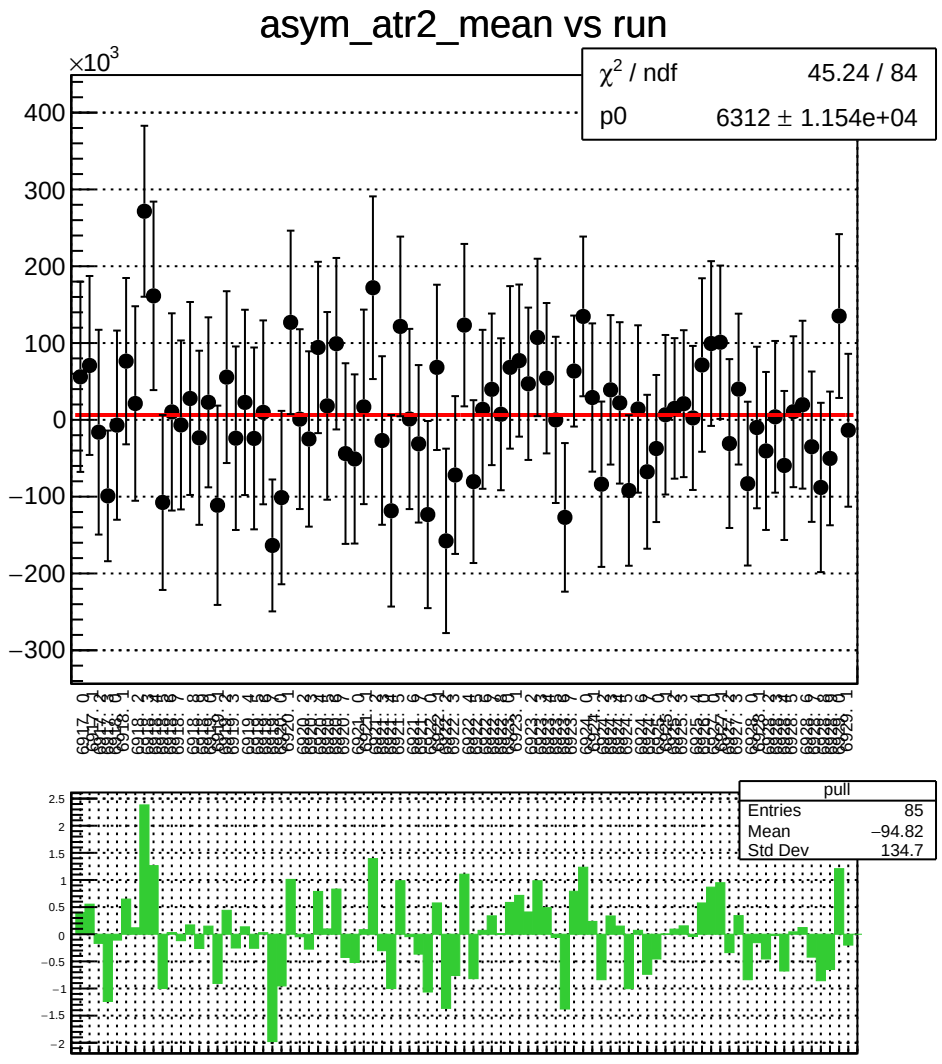

pull1D
Entries 85
Mean 0.005591
Std Dev 0.7931

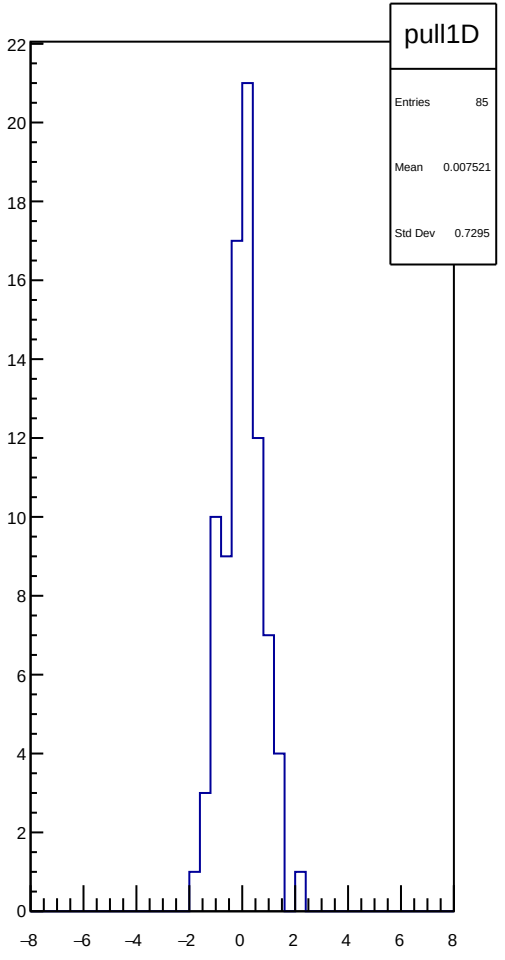

reg_asym_atr2_rms vs run
χ² / ndf 161.9 / 84
p0 2532 ± 2.005
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

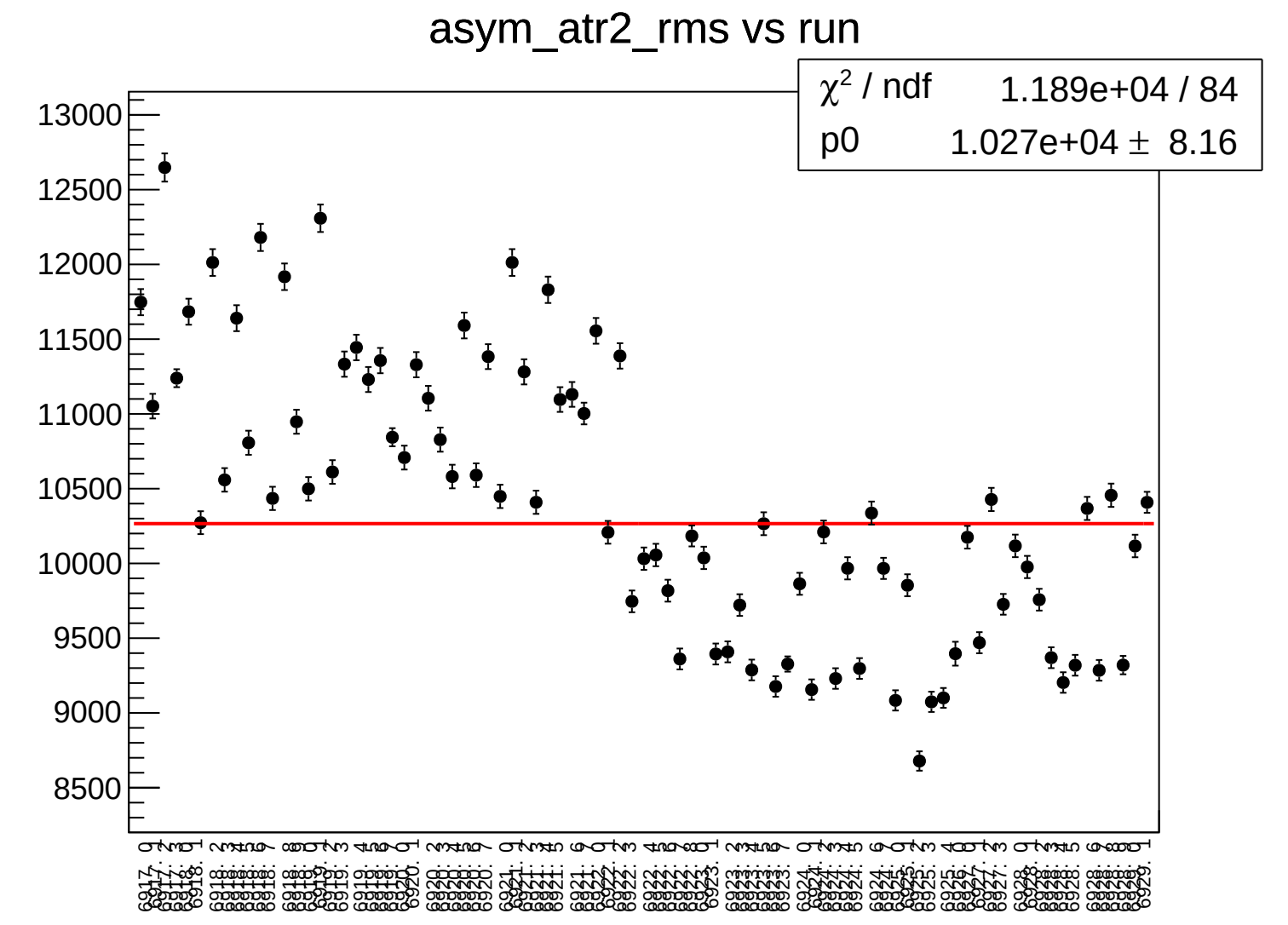

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 43.88 / 84
p0 −5572 ± 1.118e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 85
Mean −251
Std Dev 293.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

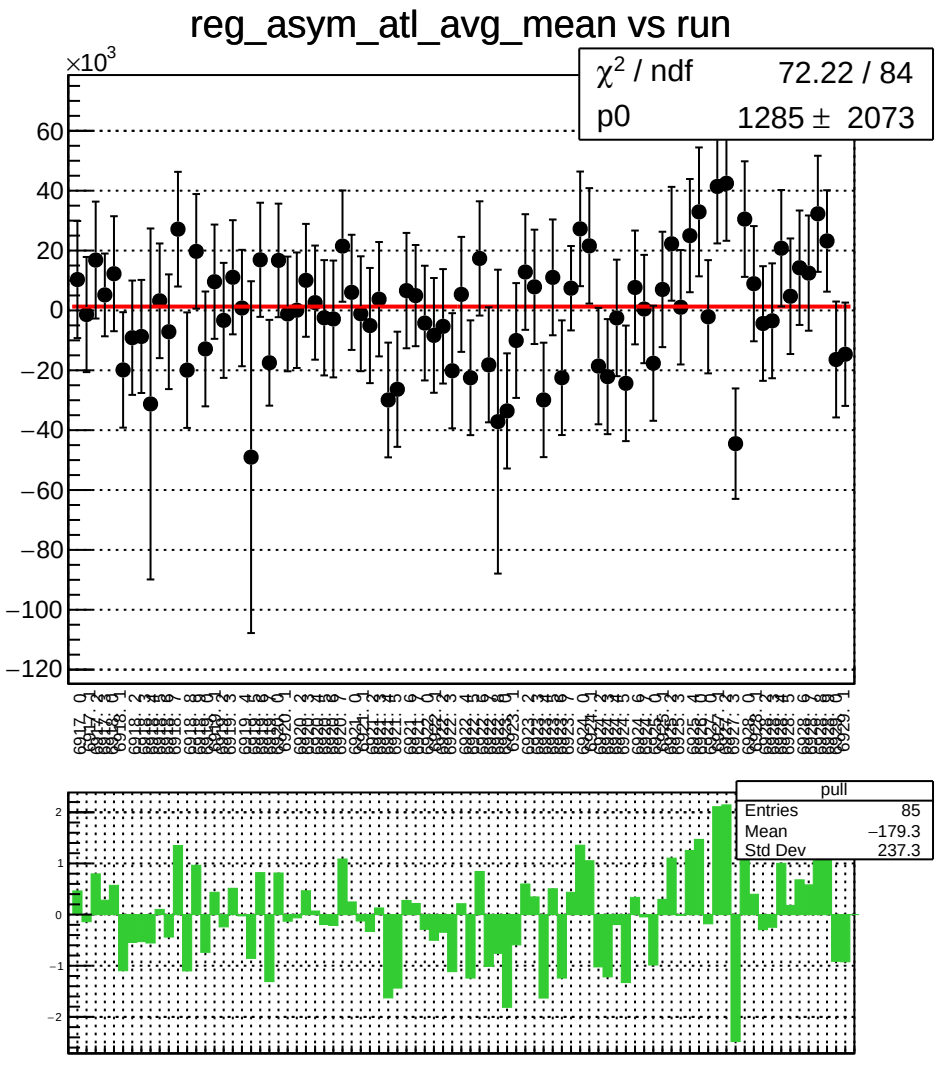

pull1D
Entries 85
Mean −0.004128
Std Dev 0.7185
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

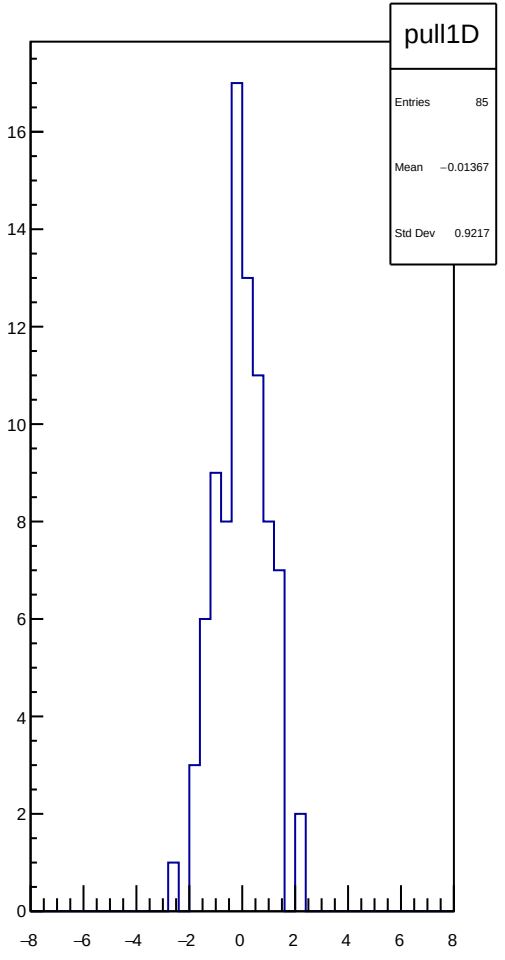

asym_atr2_correction_rms vs run
χ² / ndf 1.337e+04 / 84
p0 9938 ± 7.903
12000
11000
10000
9000
8000

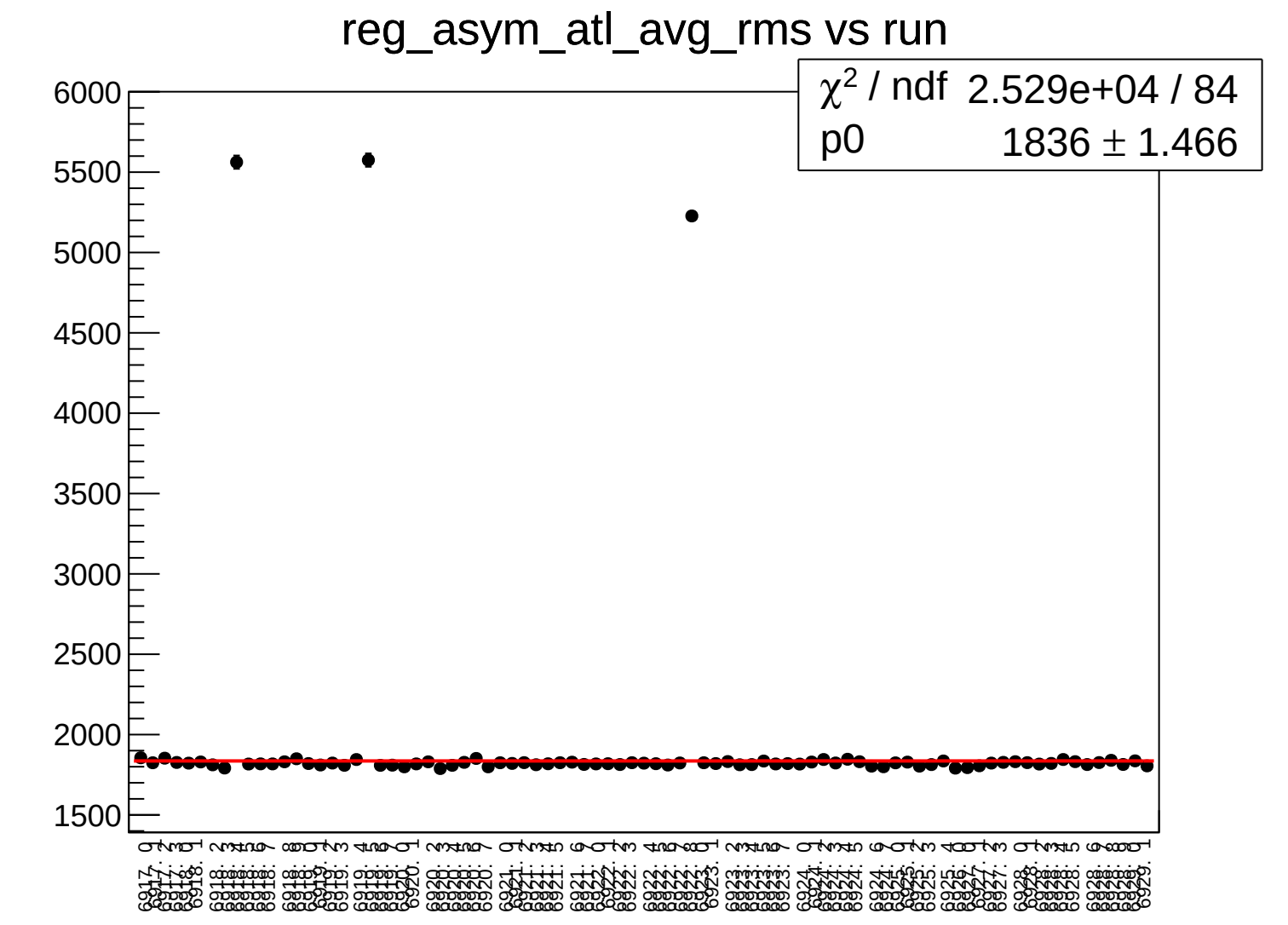

asym_atr2_mean vs run
×10^3
χ² / ndf 45.24 / 84
p0 6312 ± 1.154e+04
pull
Entries 85
Mean −94.82
Std Dev 134.7

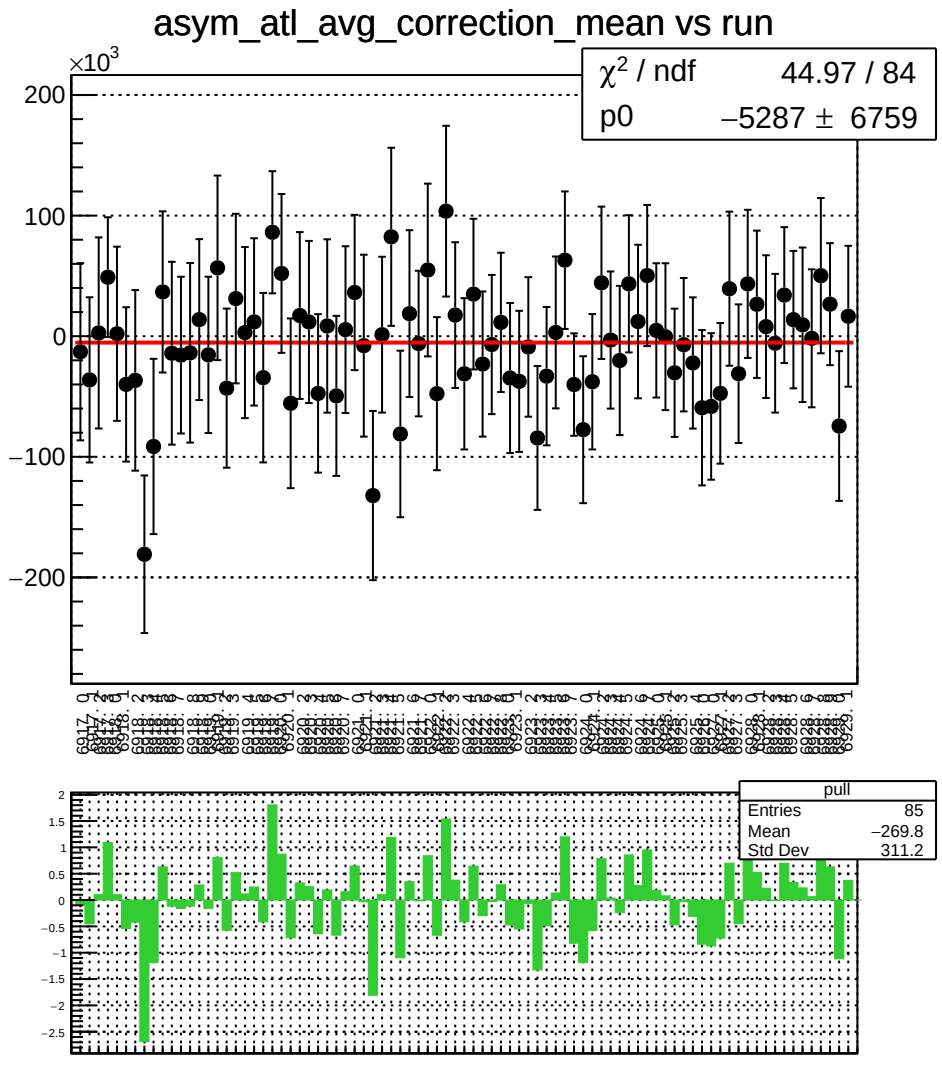

pull1D
Entries 85
Mean 0.007521
Std Dev 0.7295

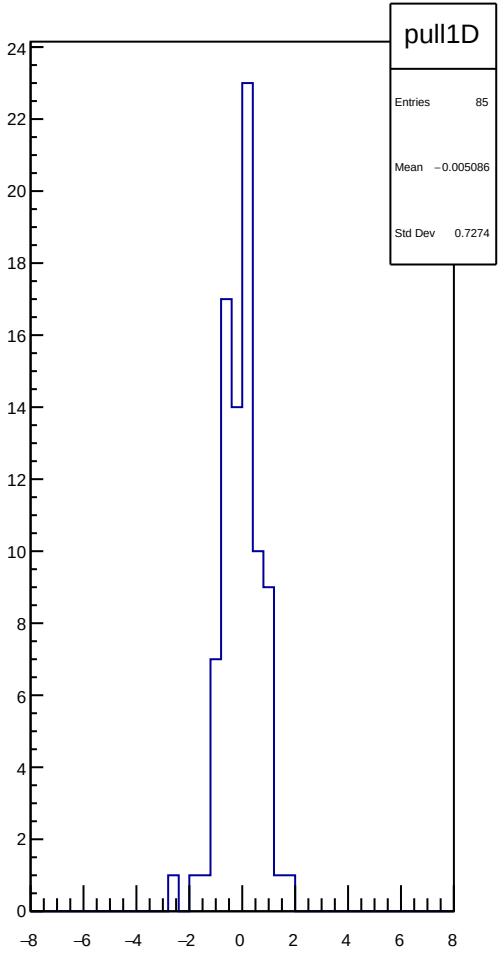

asym_atr2_rms vs run
χ² / ndf 1.189e+04 / 84
p0 1.027e+04 ± 8.16
13000
12500
12000
11500
11000
10500
10000
9500
9000
8500

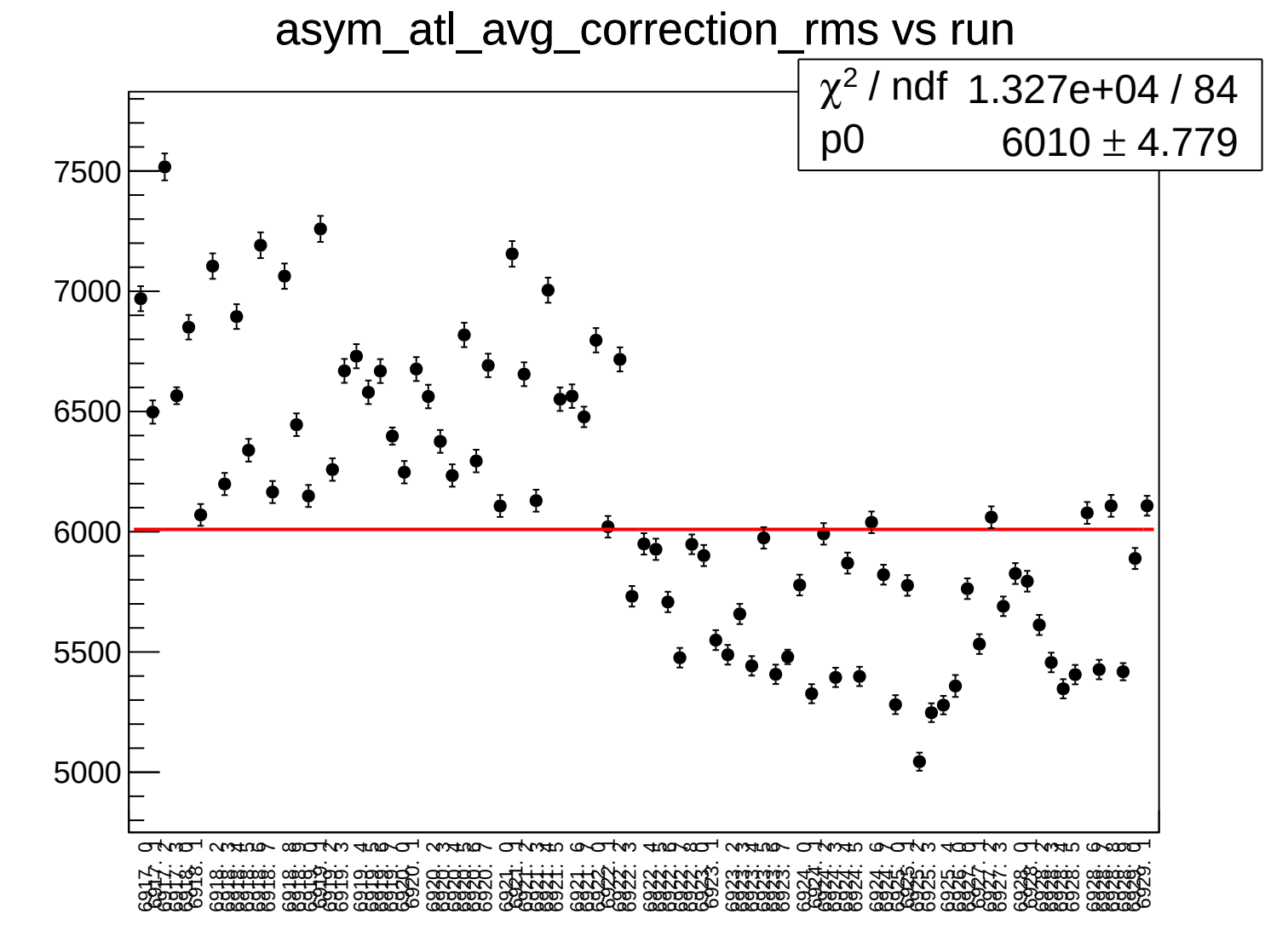

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 72.22 / 84
p0 1285 ± 2073
pull
Entries 85
Mean −179.3
Std Dev 237.3

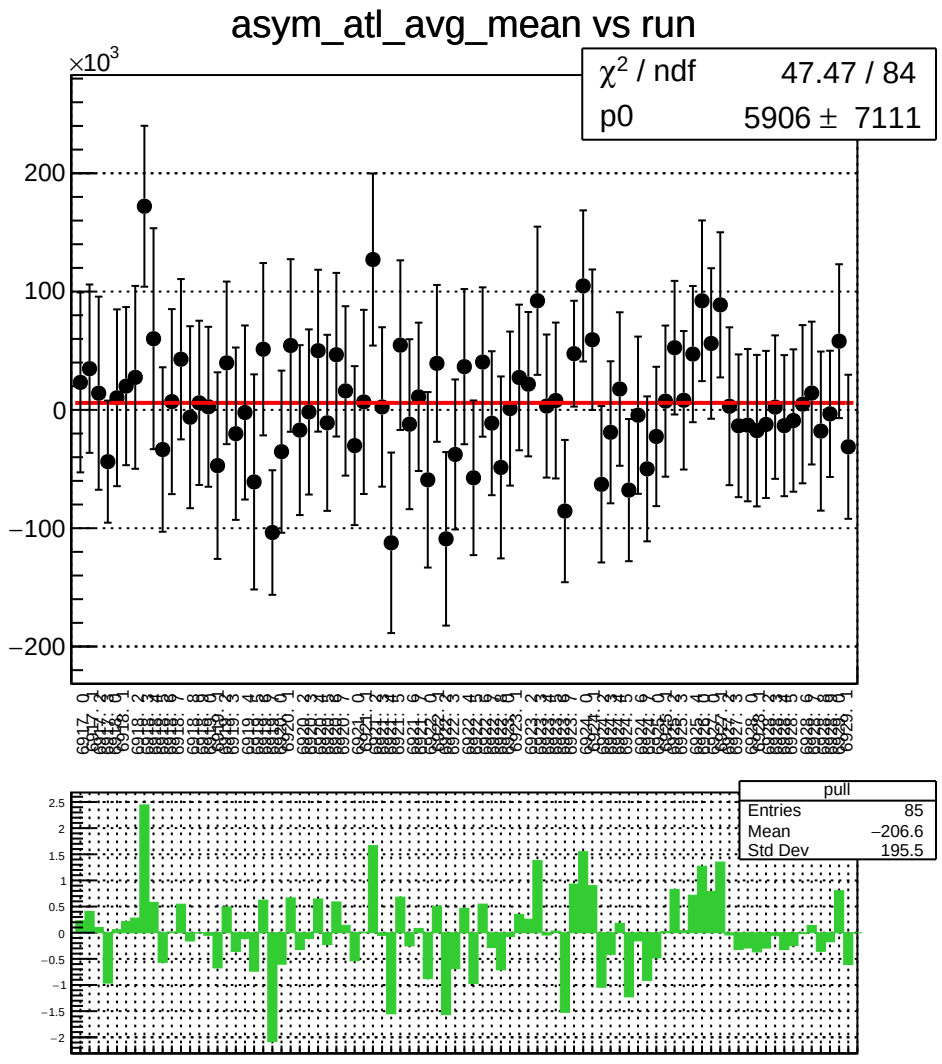

pull1D
Entries 85
Mean −0.01367
Std Dev 0.9217

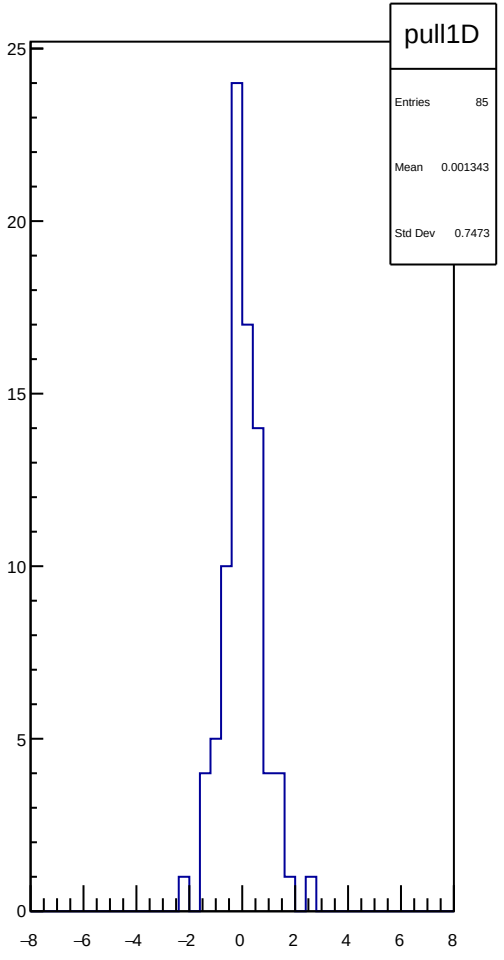

reg_asym_atl_avg_rms vs run
χ² / ndf 2.529e+04 / 84
p0 1836 ± 1.466
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

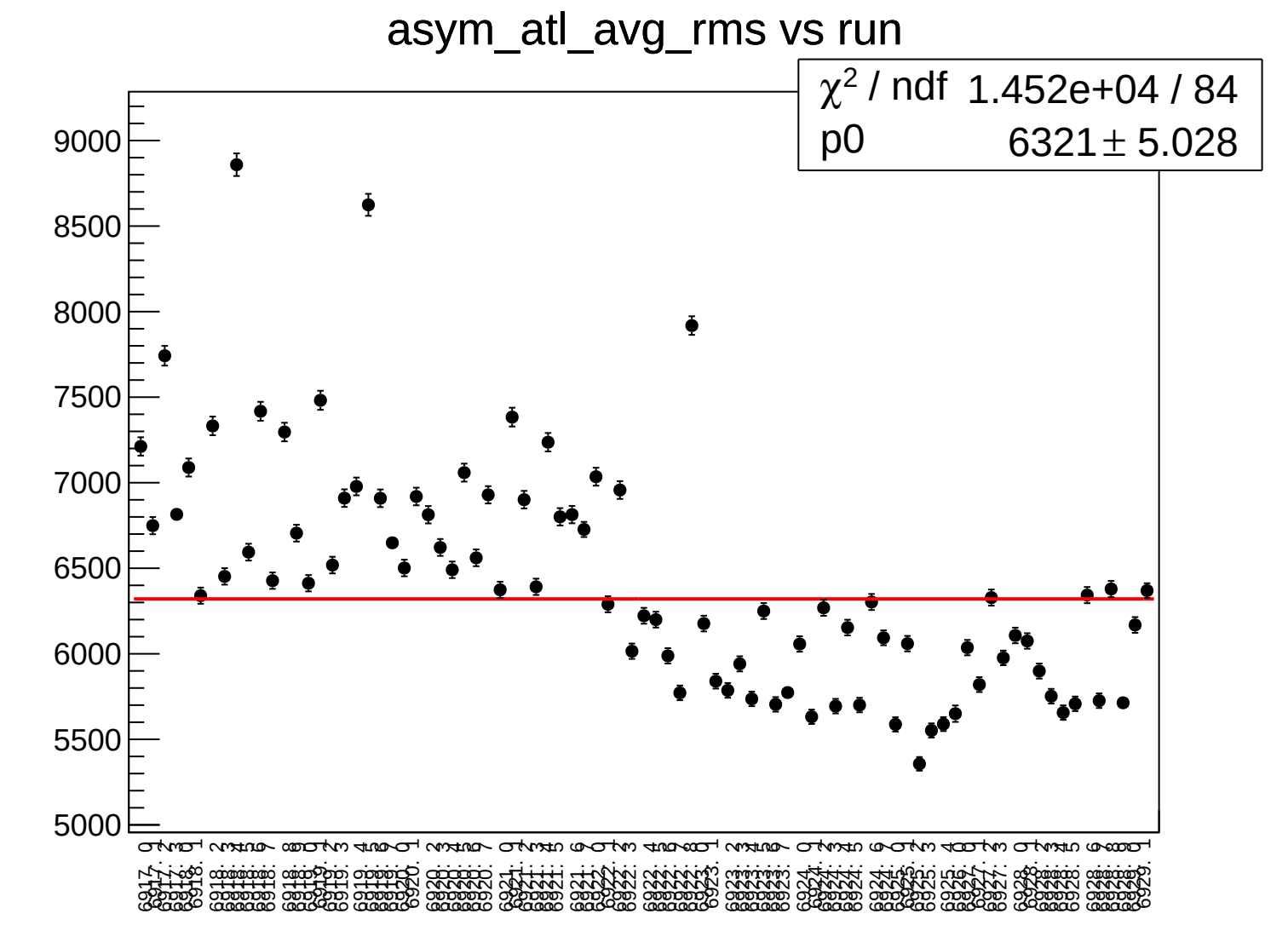

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 44.97 / 84
p0 −5287 ± 6759
200
100
0
−100
−200
pull
Entries 85
Mean −269.8
Std Dev 311.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

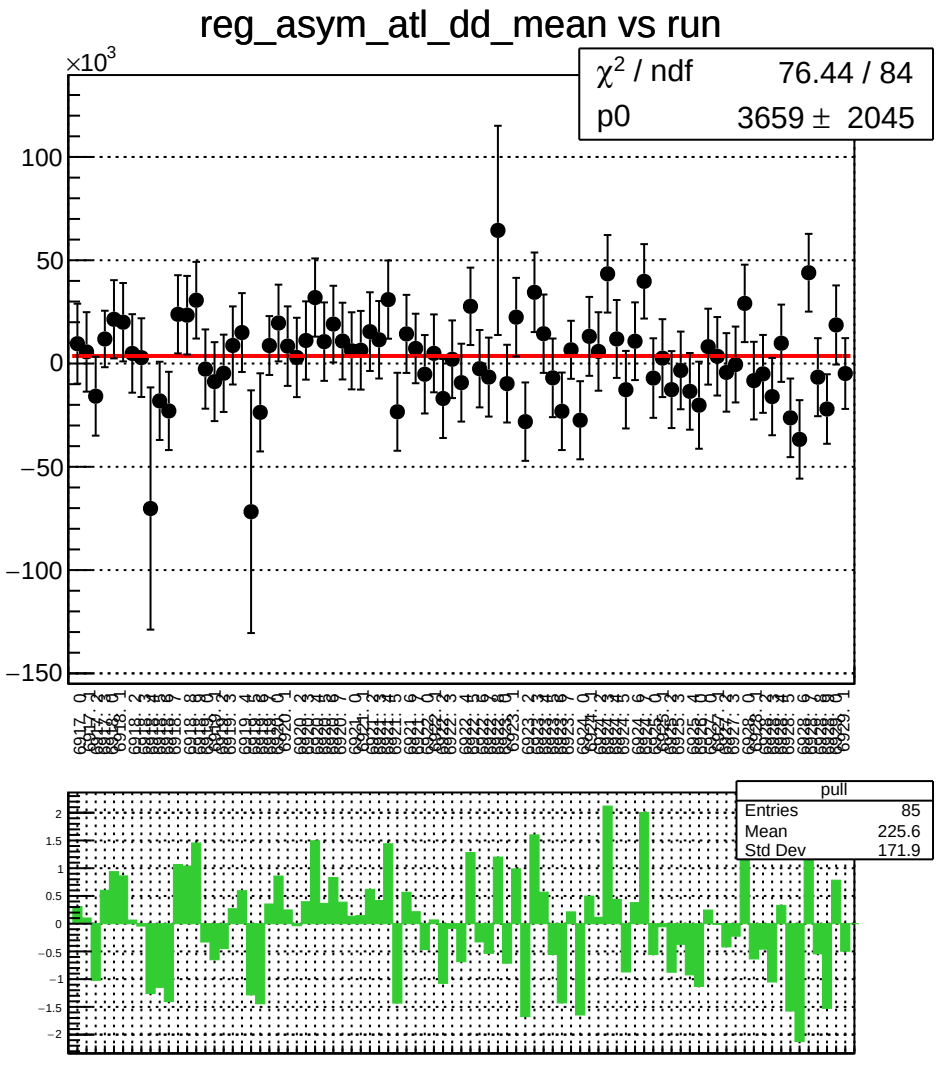

pull1D
Entries 85
Mean −0.005086
Std Dev 0.7274
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

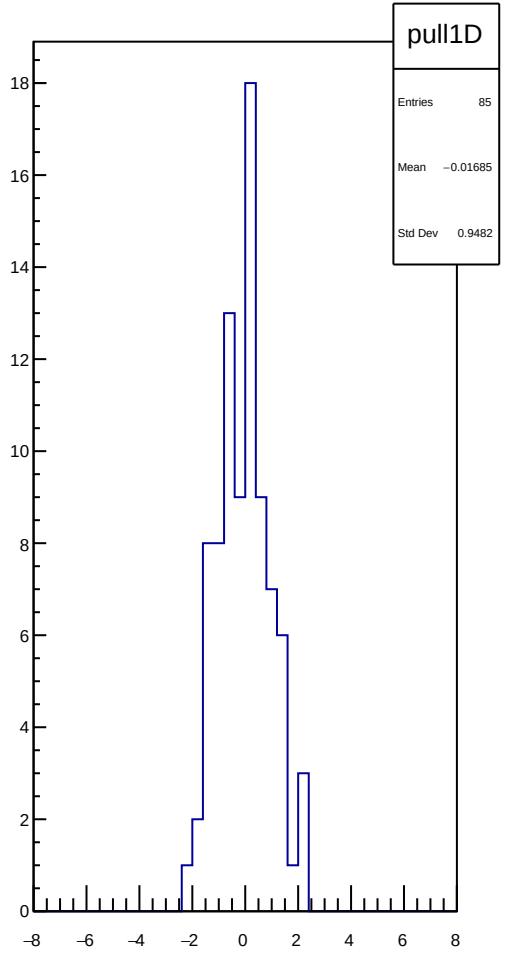

asym_atl_avg_correction_rms vs run
χ² / ndf 1.327e+04 / 84
p0 6010 ± 4.779
7500
7000
6500
6000
5500
5000

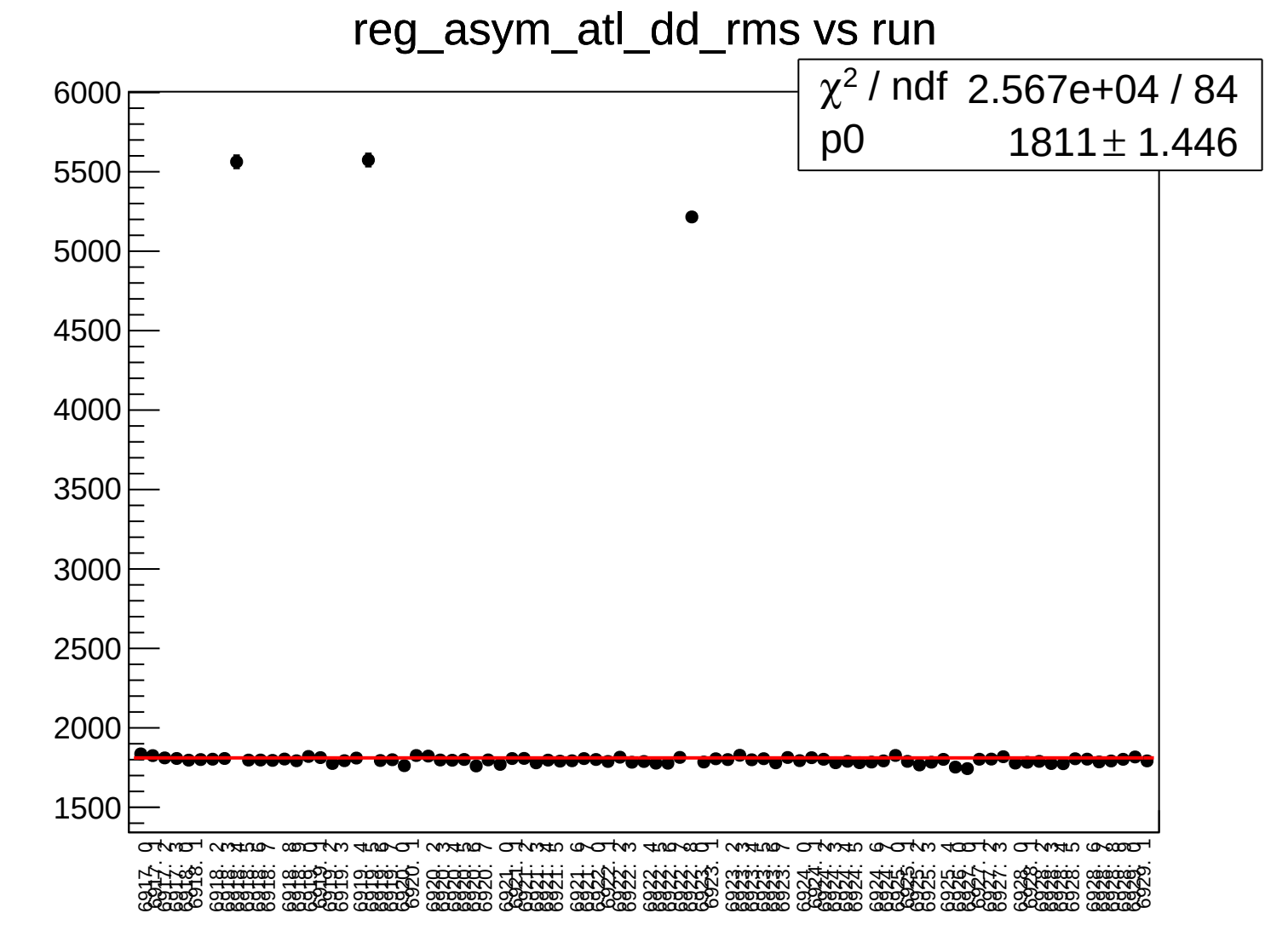

asym_atl_avg_mean vs run
×10^3
χ² / ndf 47.47 / 84
p0 5906 ± 7111
200
100
0
−100
−200
pull
Entries 85
Mean −206.6
Std Dev 195.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

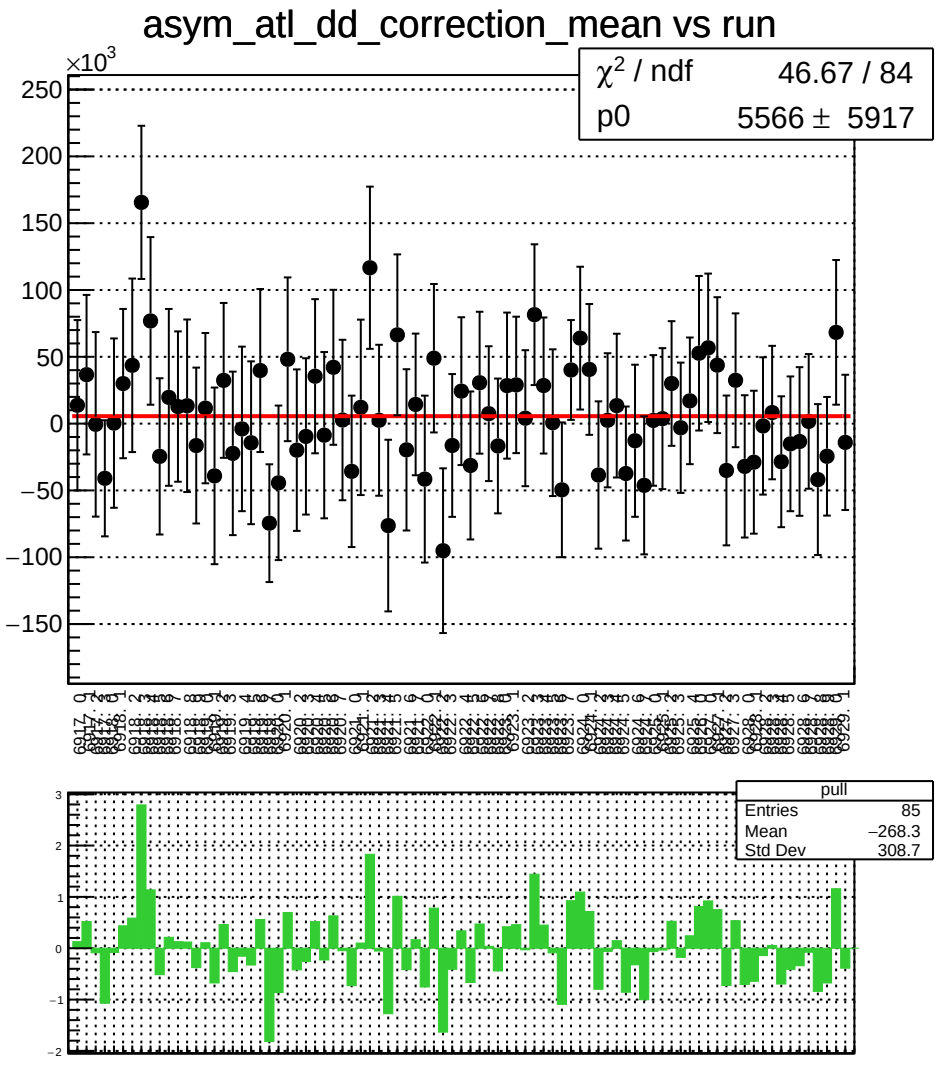

pull1D
Entries 85
Mean 0.001343
Std Dev 0.7473
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

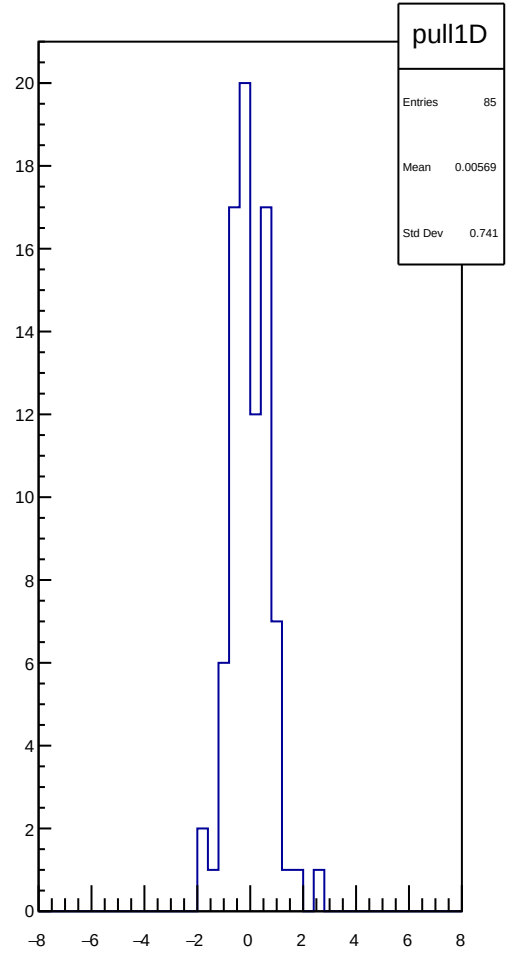

asym_atl_avg_rms vs run
χ^2 / ndf 1.452e+04 / 84
p0 6321 ± 5.028
9000
8500
8000
7500
7000
6500
6000
5500
5000

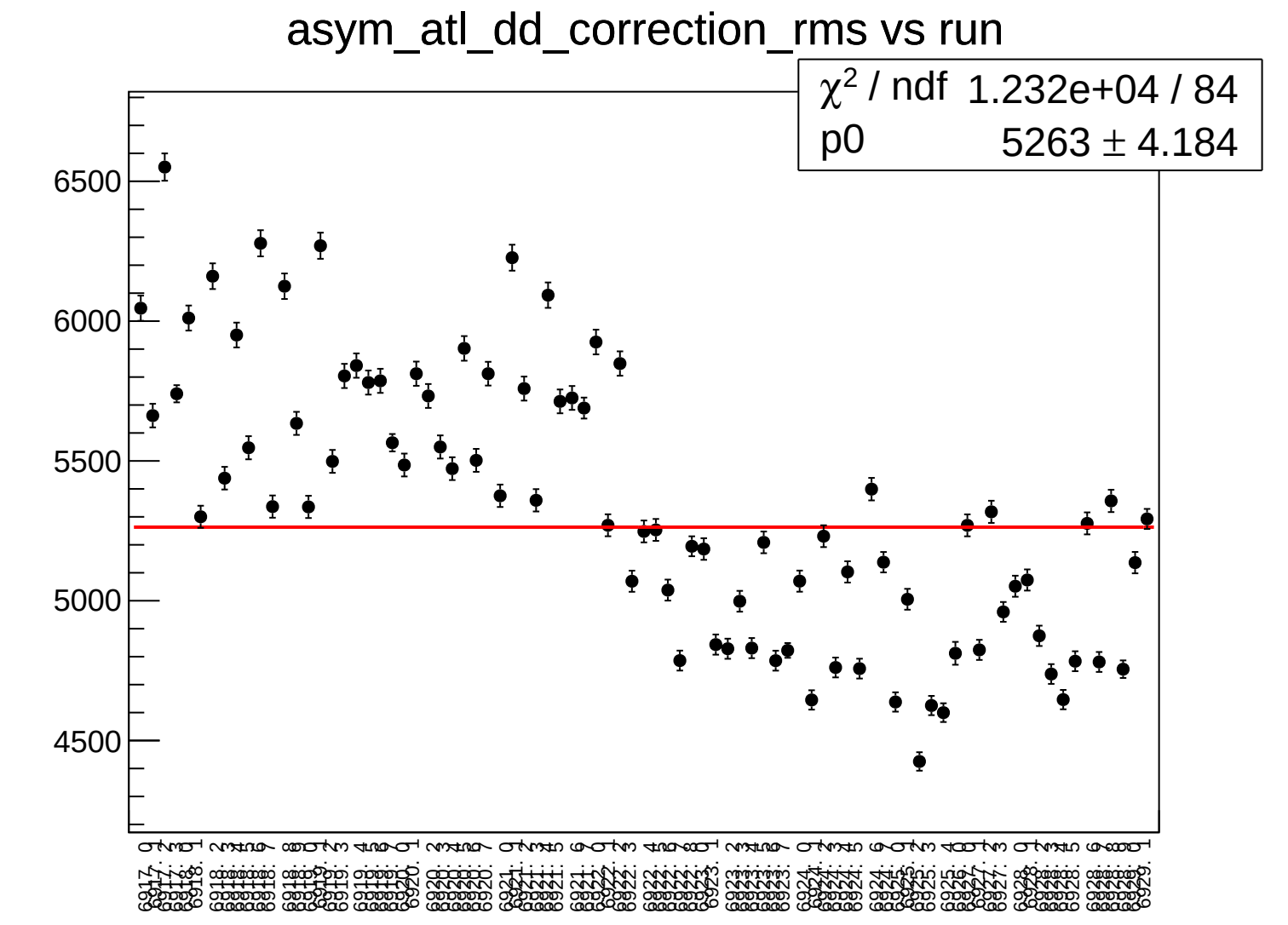

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 76.44 / 84
p0 3659 ± 2045
100
50
0
−50
−100
−150
pull
Entries 85
Mean 225.6
Std Dev 171.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

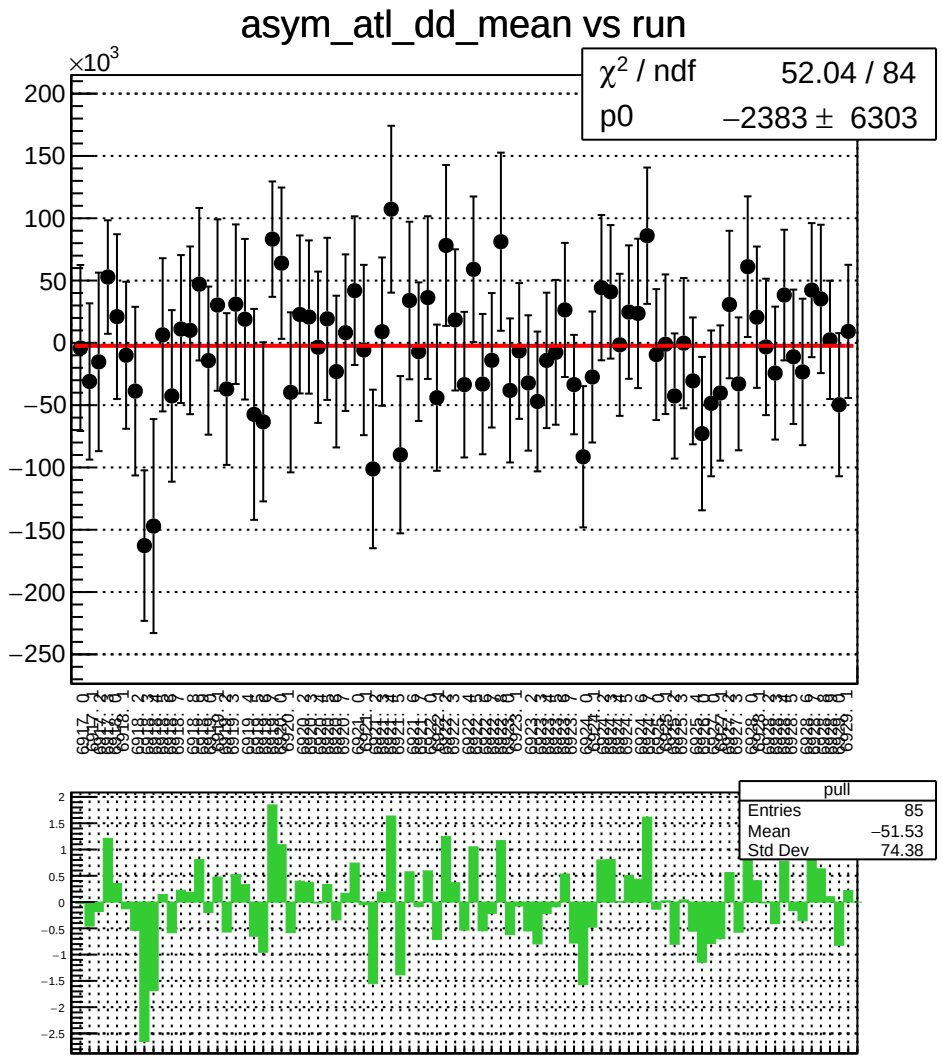

pull1D
Entries 85
Mean −0.01685
Std Dev 0.9482
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

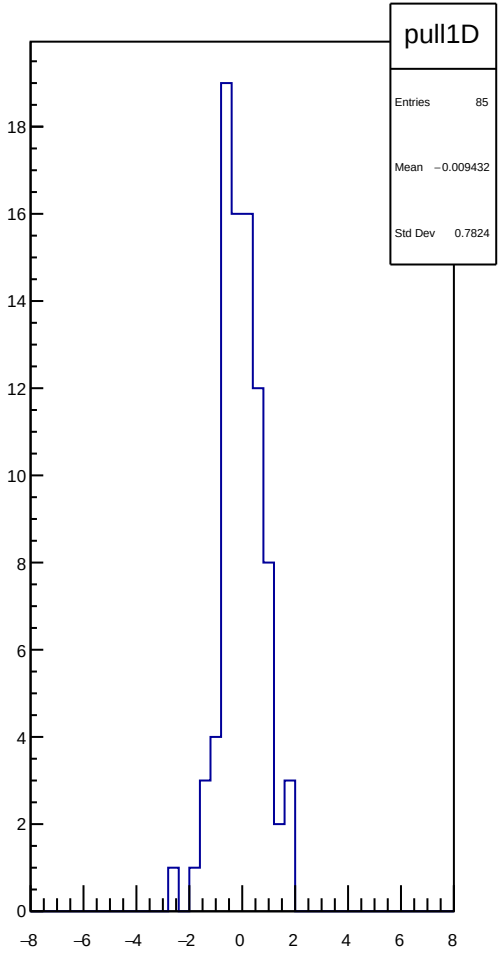

reg_asym_atl_dd_rms vs run
χ² / ndf 2.567e+04 / 84
p0 1811 ± 1.446
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

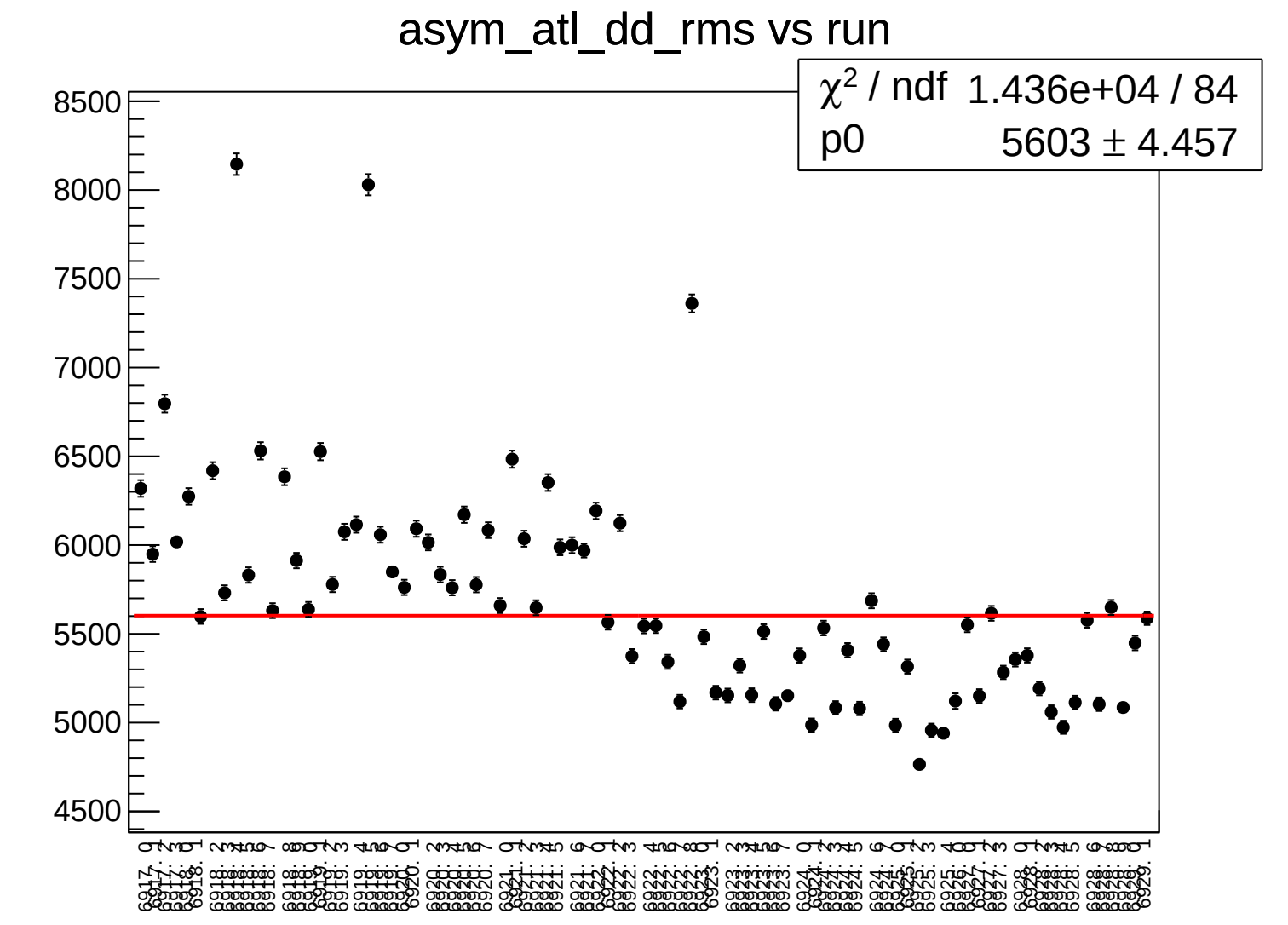

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 46.67 / 84
p0 5566 ± 5917
pull
Entries 85
Mean −268.3
Std Dev 308.7

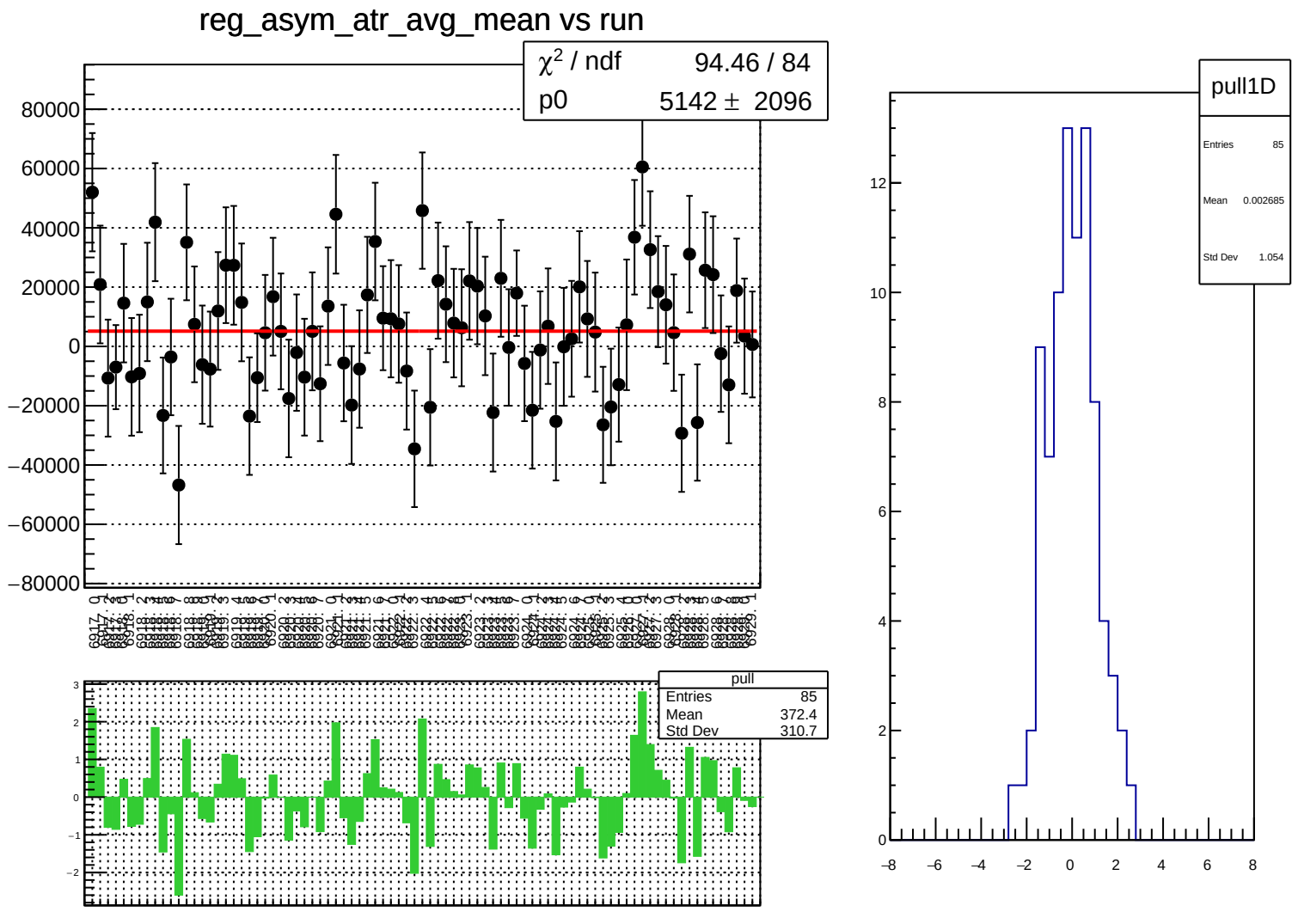

pull1D
Entries 85
Mean 0.00569
Std Dev 0.741

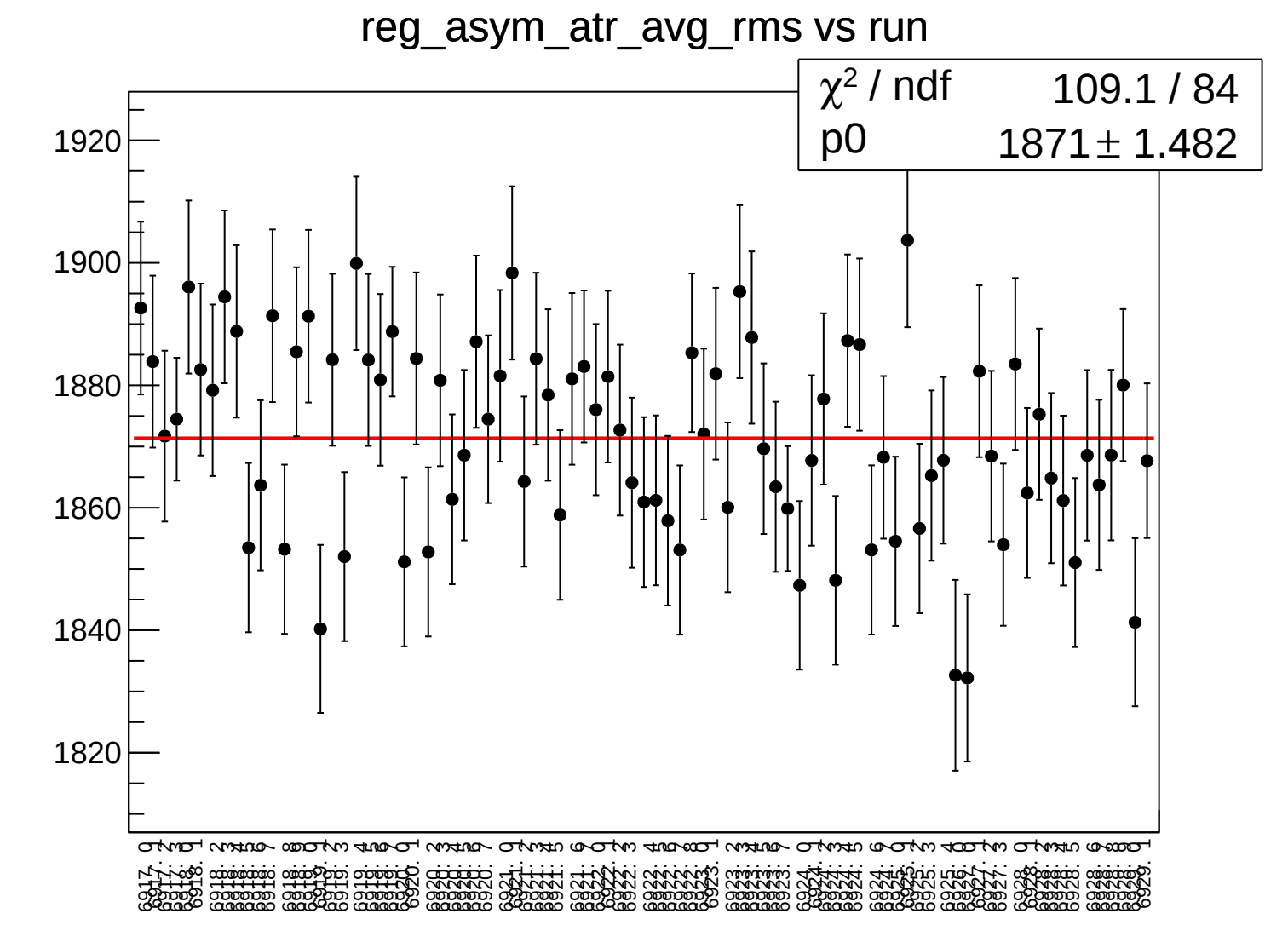

asym_atl_dd_correction_rms vs run
χ² / ndf 1.232e+04 / 84
p0 5263 ± 4.184
6500
6000
5500
5000
4500

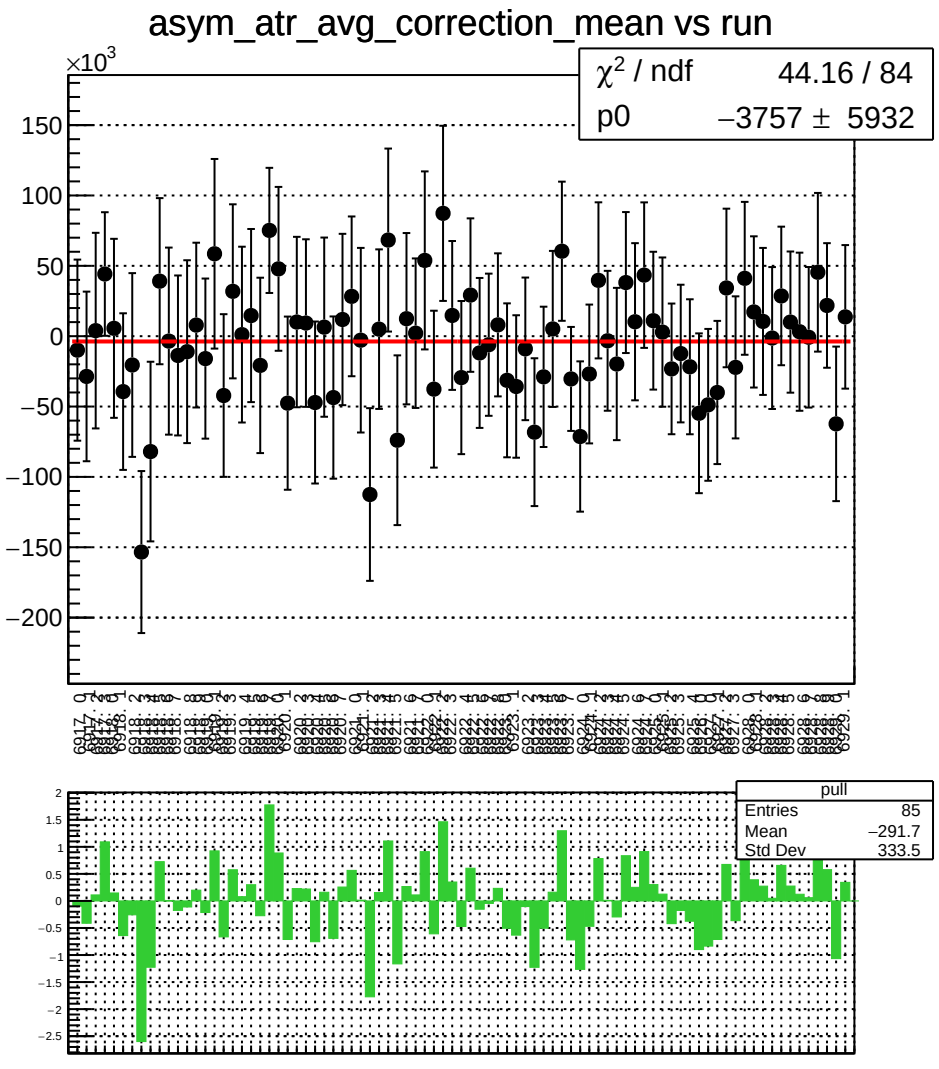

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 52.04 / 84
p0 −2383 ± 6303
pull
Entries 85
Mean −51.53
Std Dev 74.38

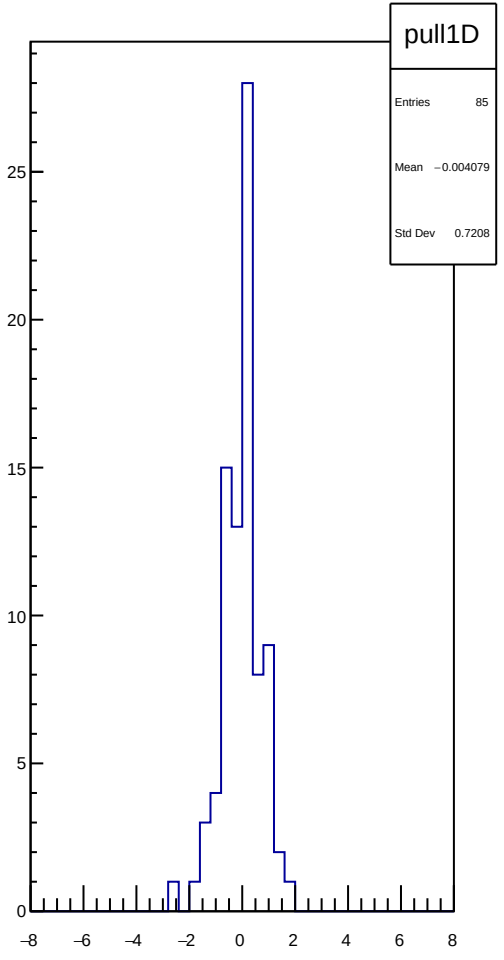

pull1D
Entries 85
Mean −0.009432
Std Dev 0.7824

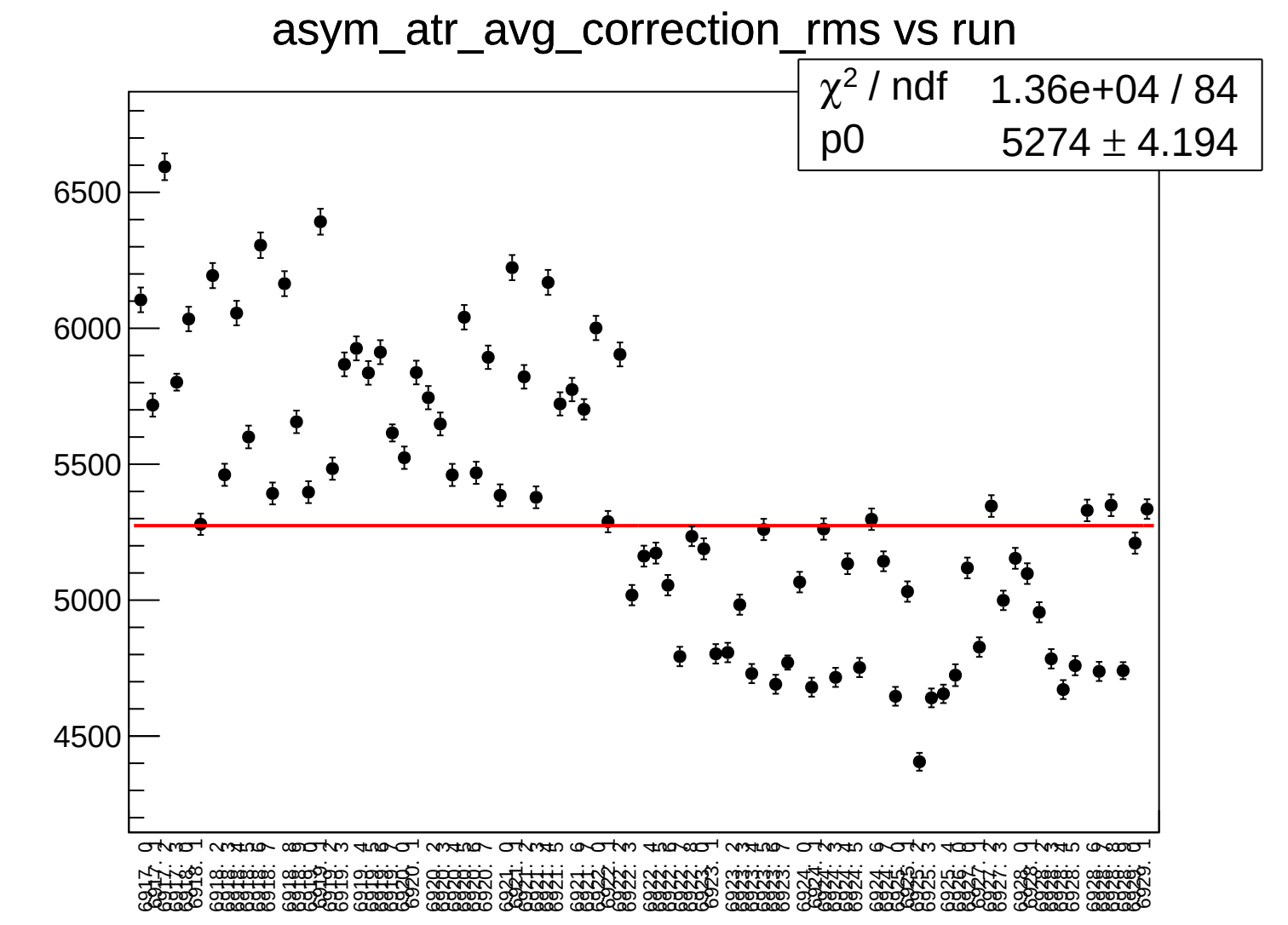

asym_atl_dd_rms vs run
χ² / ndf 1.436e+04 / 84
p0 5603 ± 4.457
8500
8000
7500
7000
6500
6000
5500
5000
4500

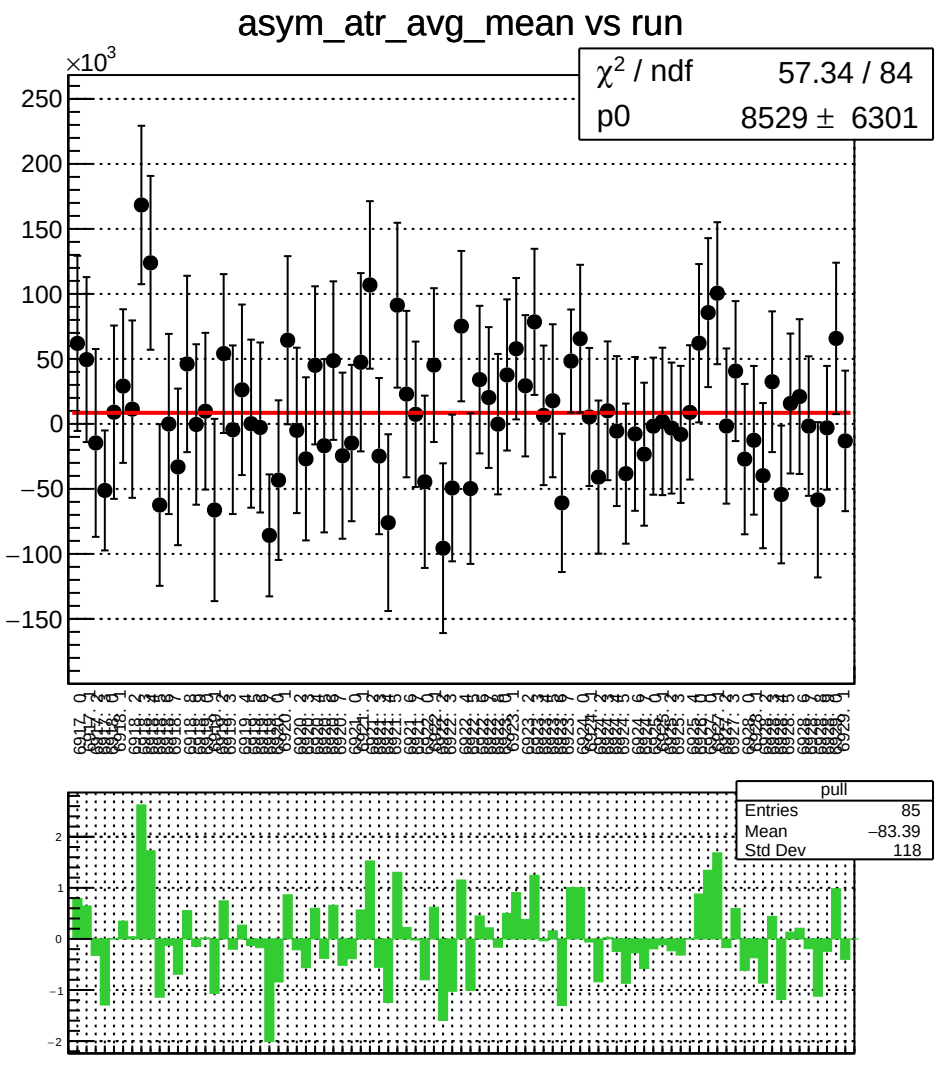

reg_asym_atr_avg_mean vs run
χ² / ndf 94.46 / 84
p0 5142 ± 2096
pull
Entries 85
Mean 372.4
Std Dev 310.7
pull1D
Entries 85
Mean 0.002685
Std Dev 1.054

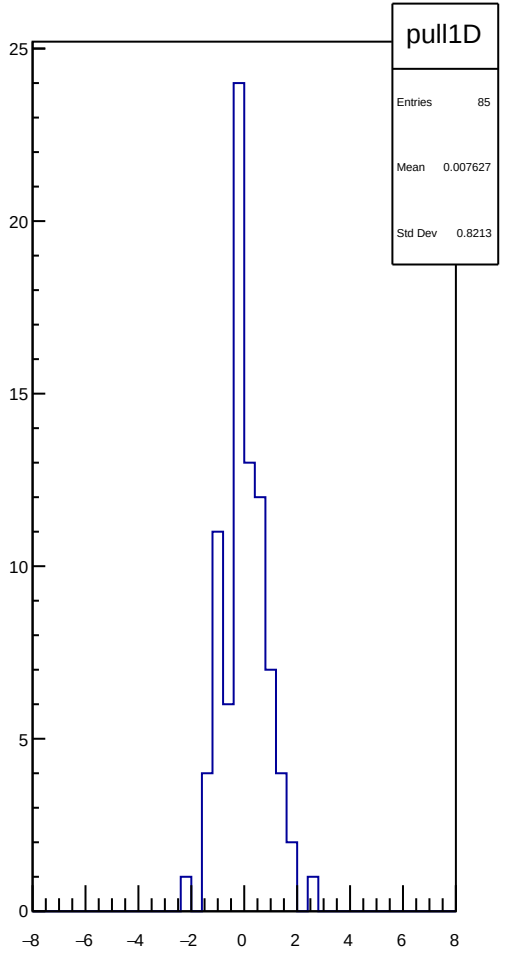

reg_asym_atr_avg_rms vs run
χ^2 / ndf 109.1 / 84
p0 1871 ± 1.482
1920
1900
1880
1860
1840
1820

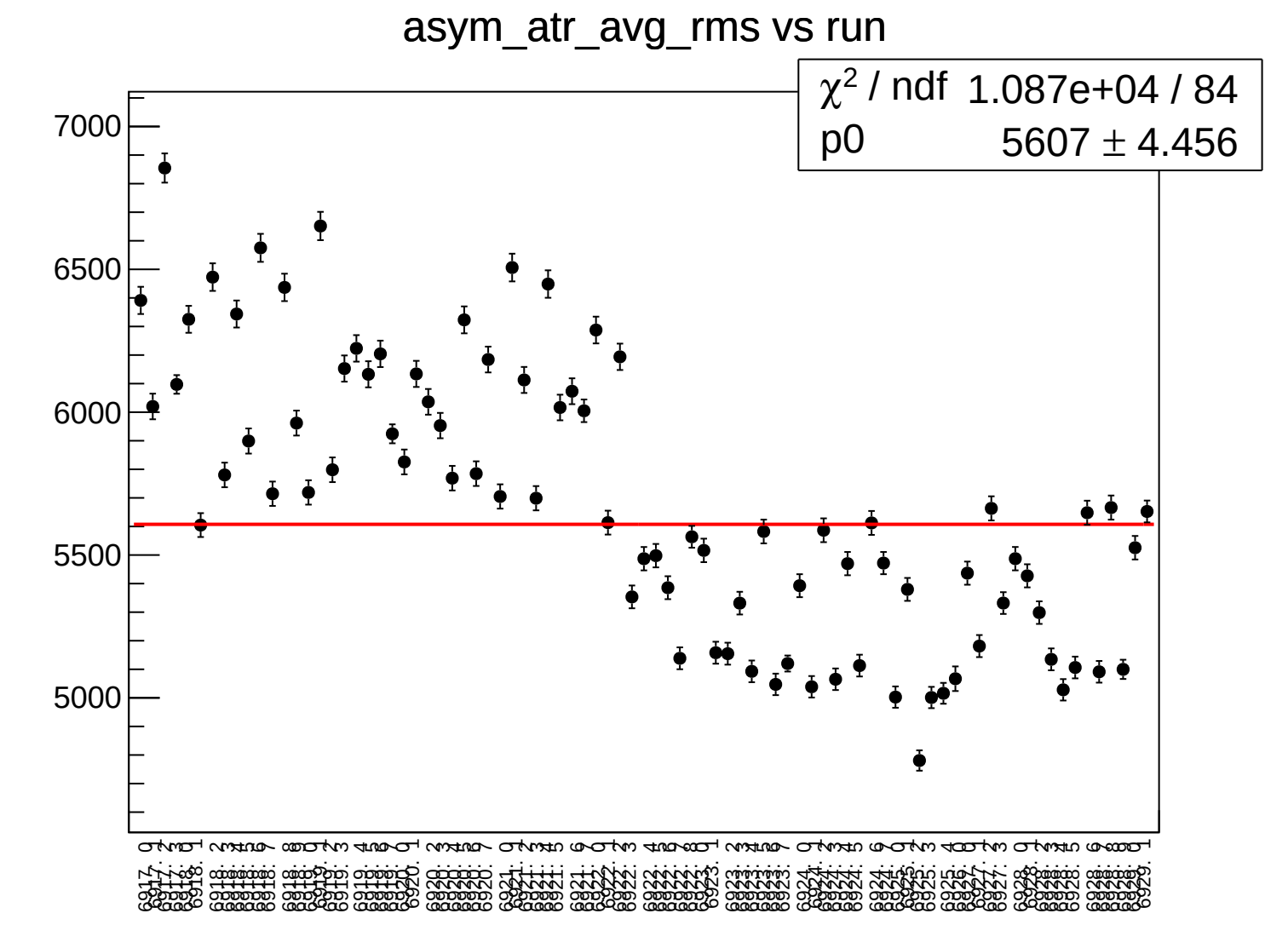

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 44.16 / 84
p0 −3757 ± 5932
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −291.7
Std Dev 333.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

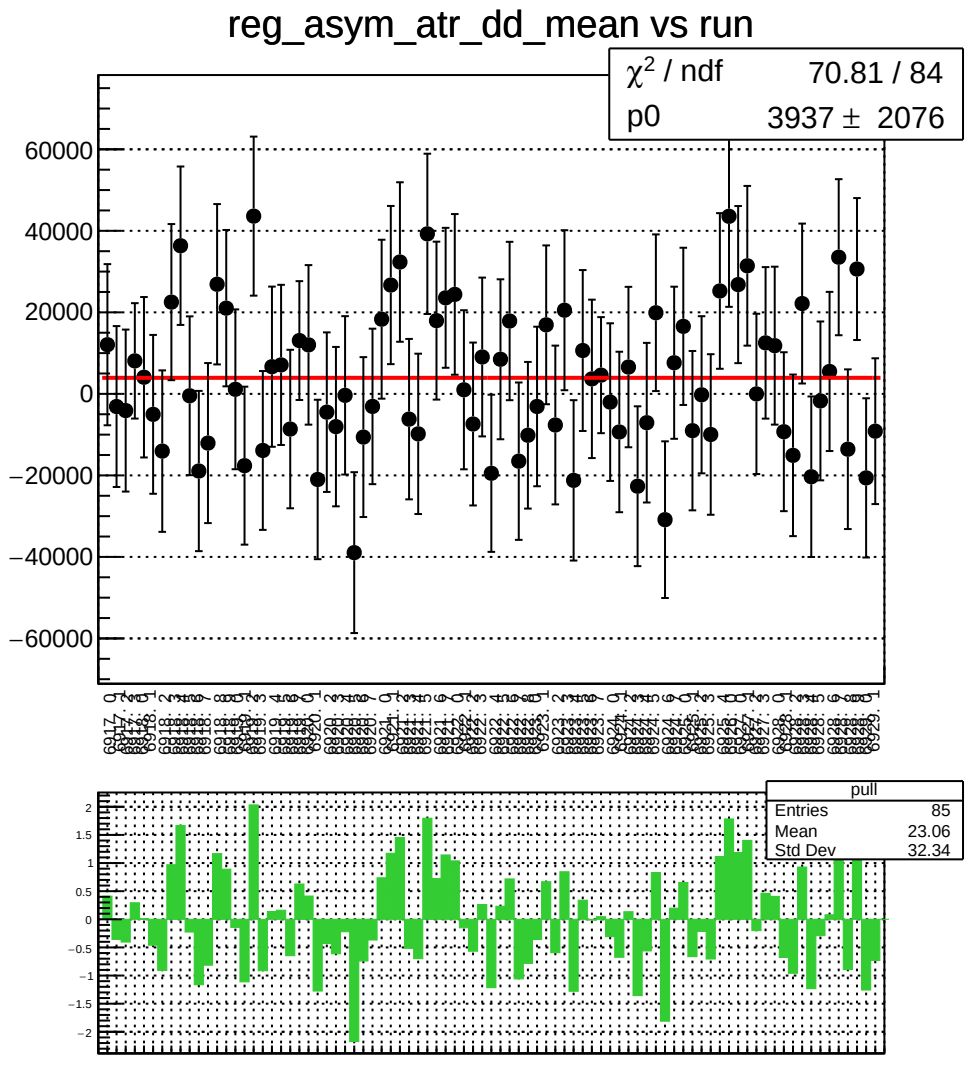

pull1D
Entries 85
Mean −0.004079
Std Dev 0.7208
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

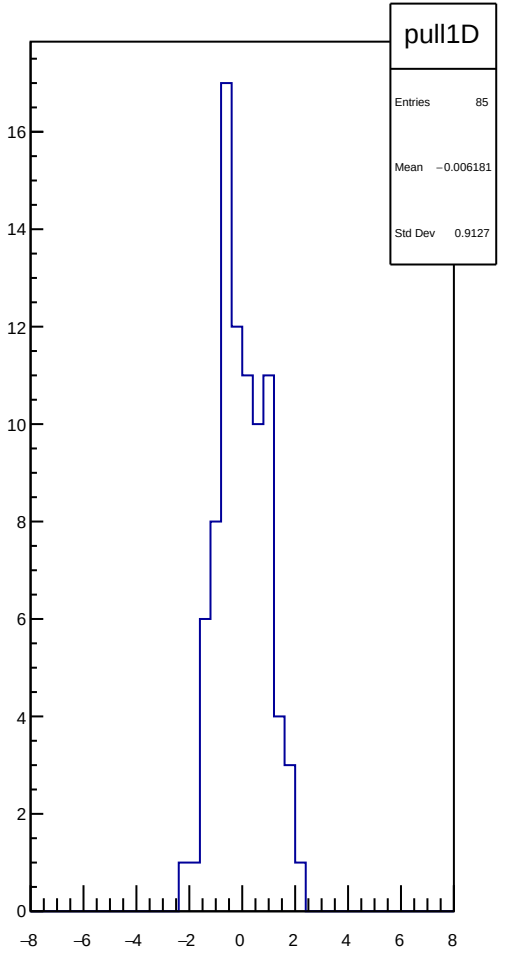

asym_atr_avg_correction_rms vs run
χ² / ndf 1.36e+04 / 84
p0 5274 ± 4.194
6500
6000
5500
5000
4500

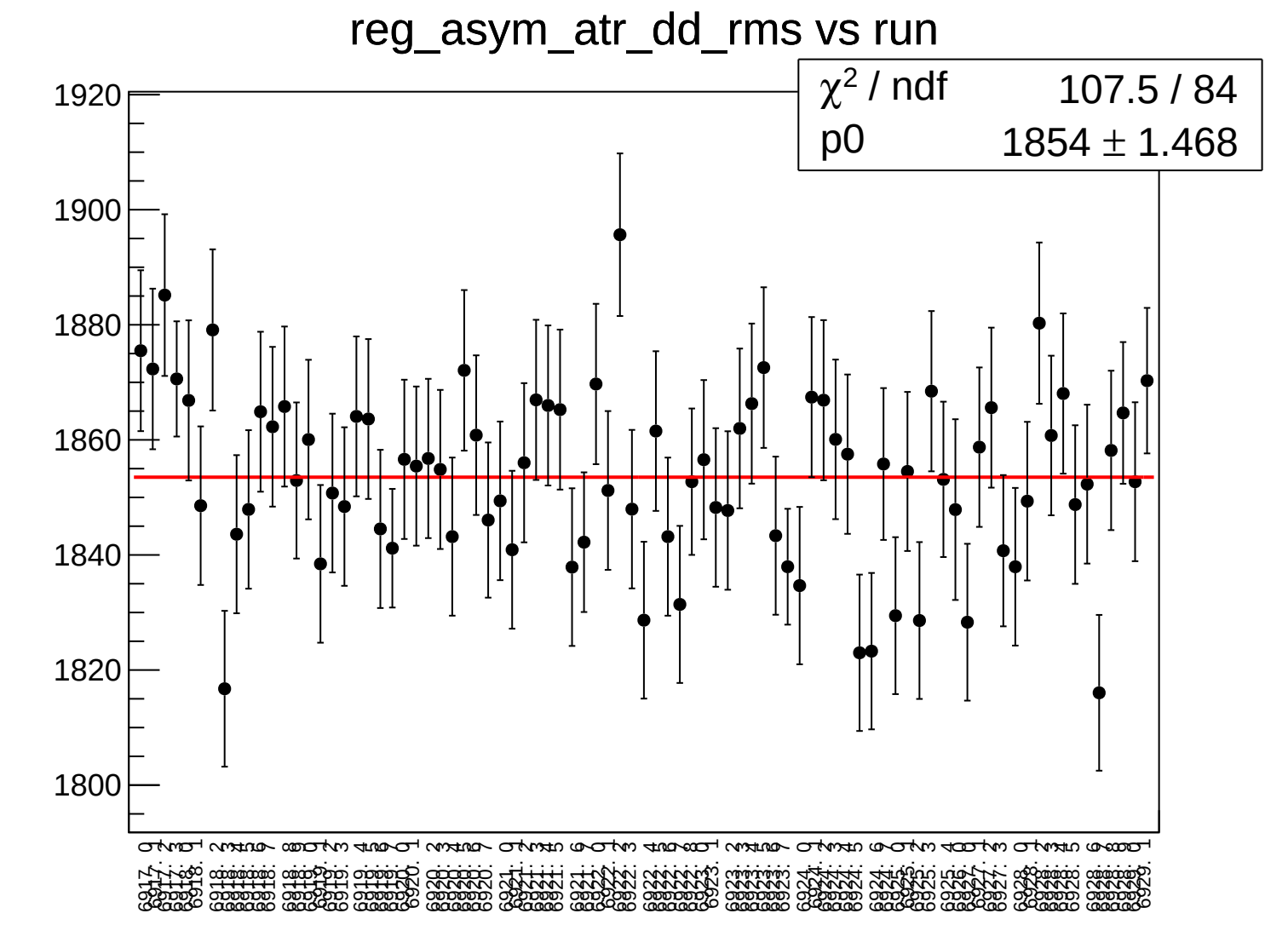

asym_atr_avg_mean vs run
×10^3
χ² / ndf 57.34 / 84
p0 8529 ± 6301
250
200
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean −83.39
Std Dev 118
2
1
0
−1
−2

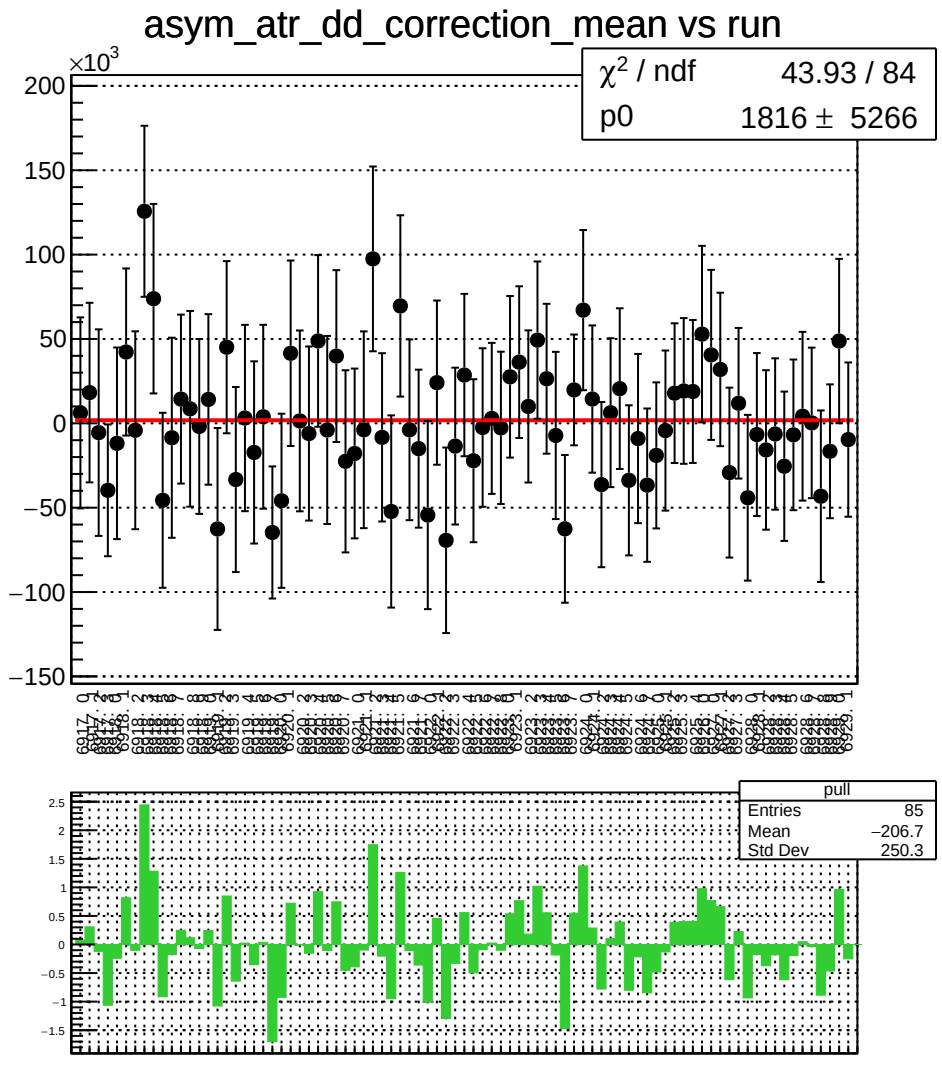

pull1D
Entries 85
Mean 0.007627
Std Dev 0.8213
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

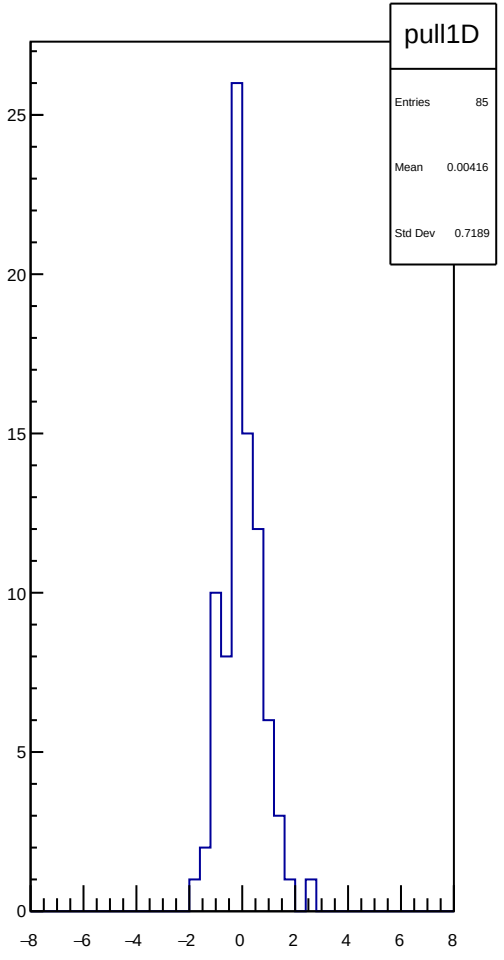

asym_atr_avg_rms vs run
χ^2 / ndf 1.087e+04 / 84
p0 5607 ± 4.456
7000
6500
6000
5500
5000

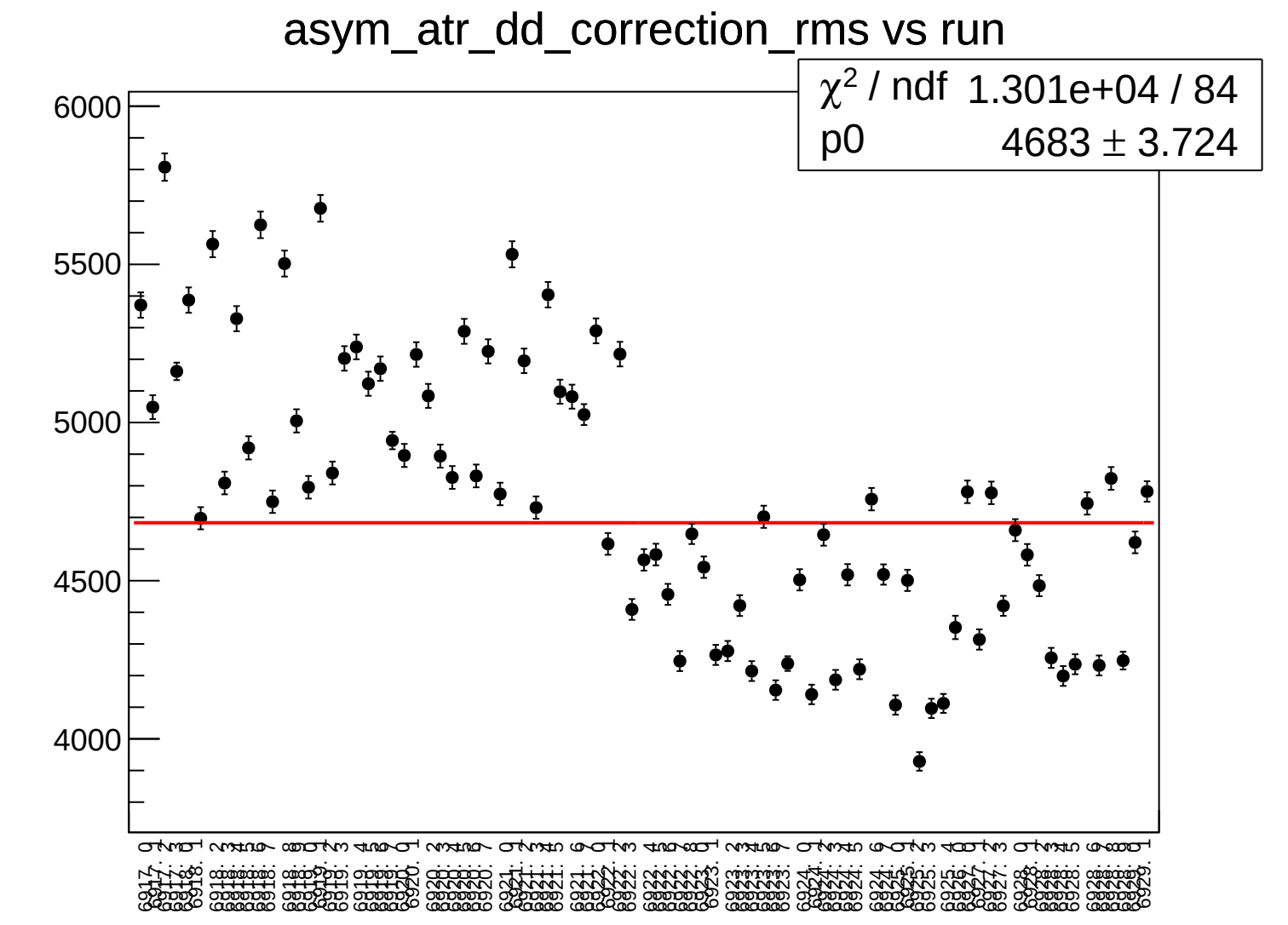

reg_asym_atr_dd_mean vs run
χ² / ndf 70.81 / 84
p0 3937 ± 2076
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 23.06
Std Dev 32.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

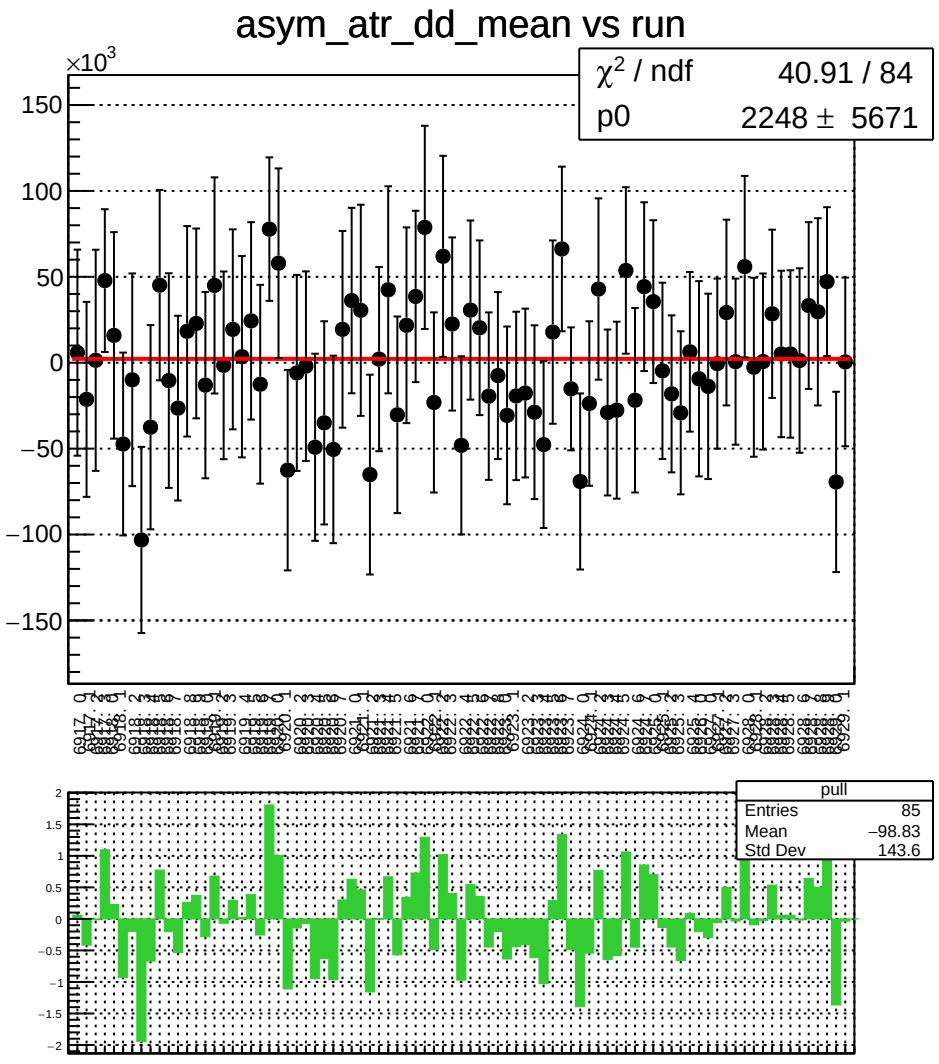

pull1D
Entries 85
Mean −0.006181
Std Dev 0.9127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

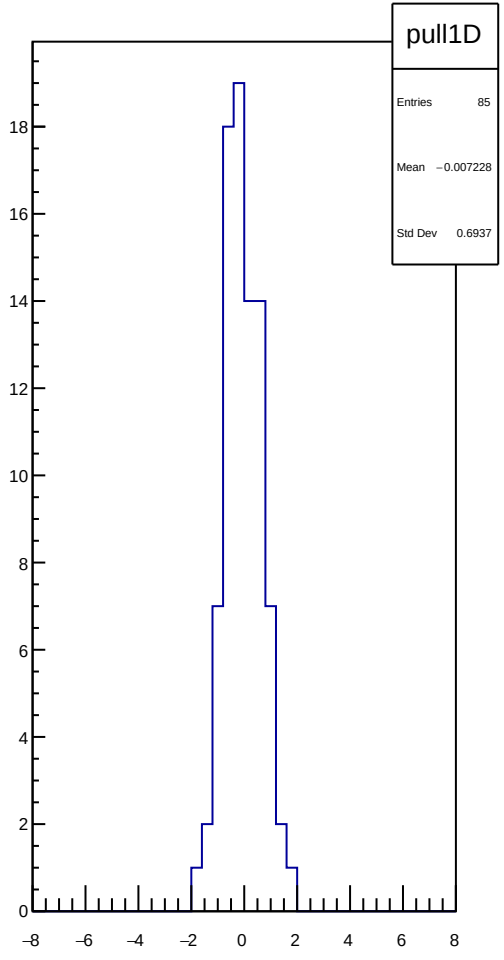

reg_asym_atr_dd_rms vs run
χ^2 / ndf 107.5 / 84
p0 1854 ± 1.468
1920
1900
1880
1860
1840
1820
1800

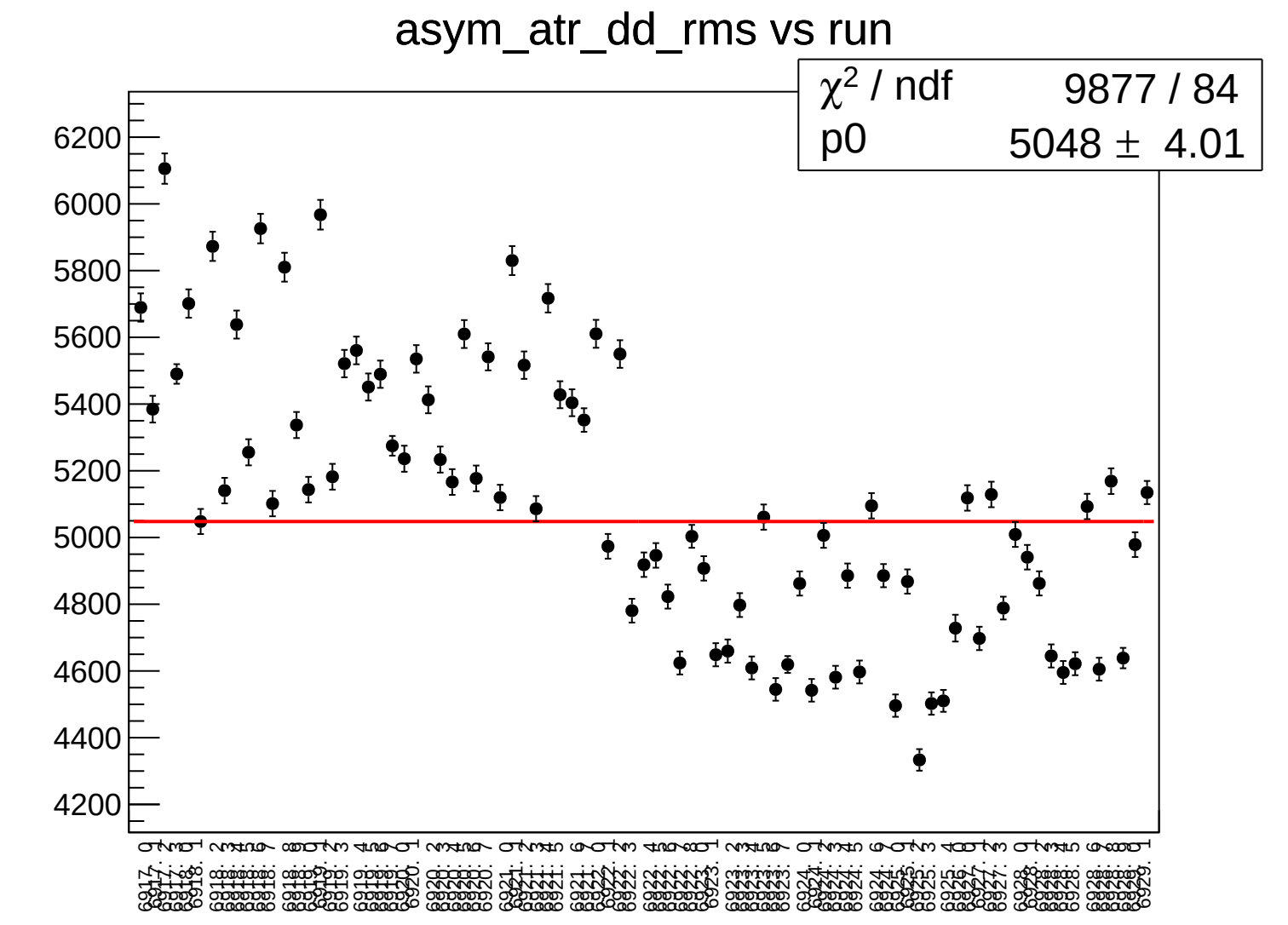

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 43.93 / 84
p0 1816 ± 5266
pull
Entries 85
Mean −206.7
Std Dev 250.3

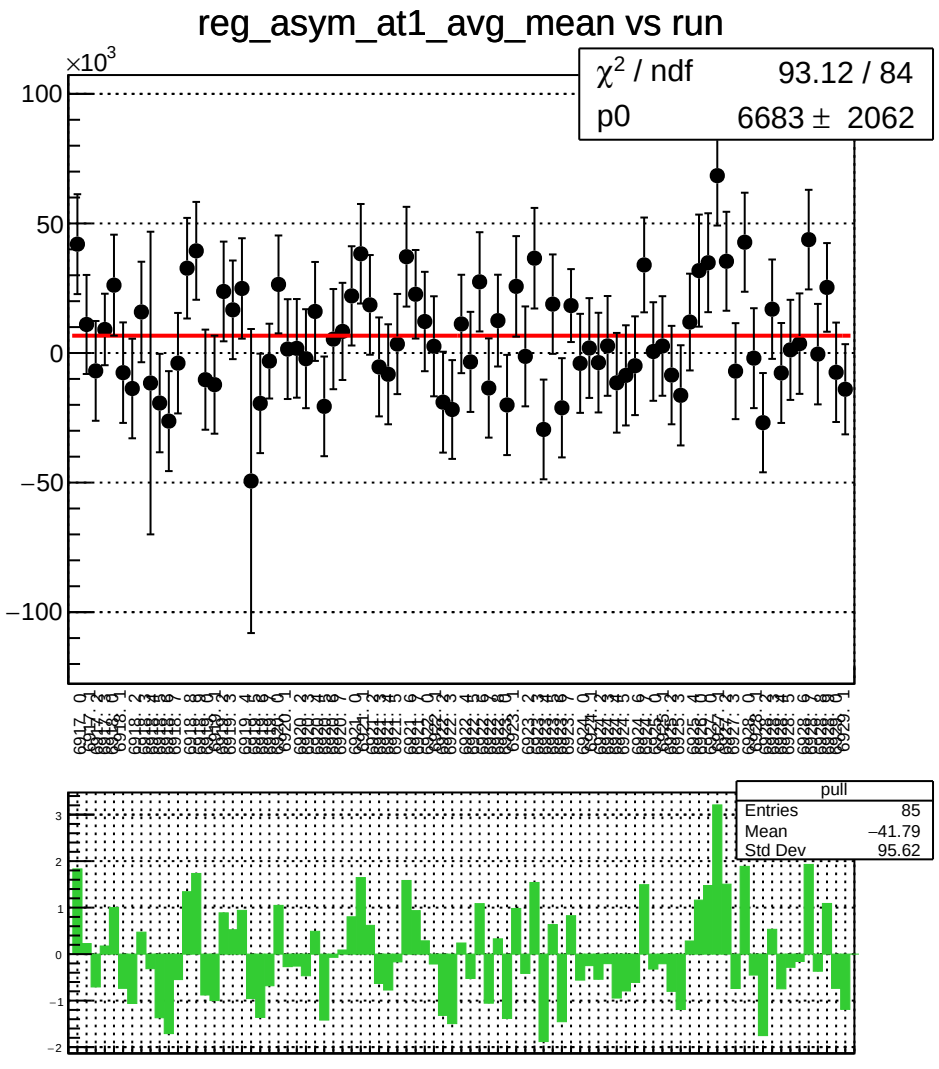

pull1D
Entries 85
Mean 0.00416
Std Dev 0.7189

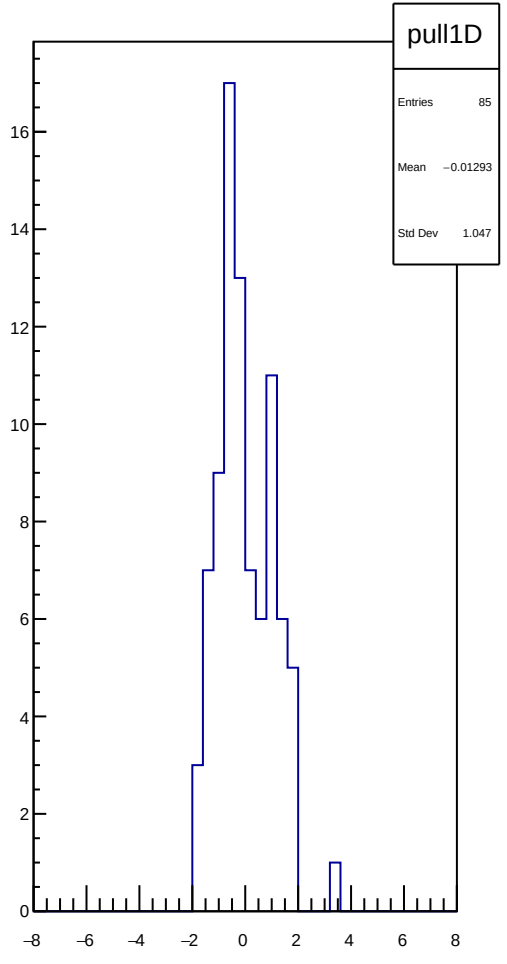

asym_atr_dd_correction_rms vs run
χ² / ndf 1.301e+04 / 84
p0 4683 ± 3.724
6000
5500
5000
4500
4000

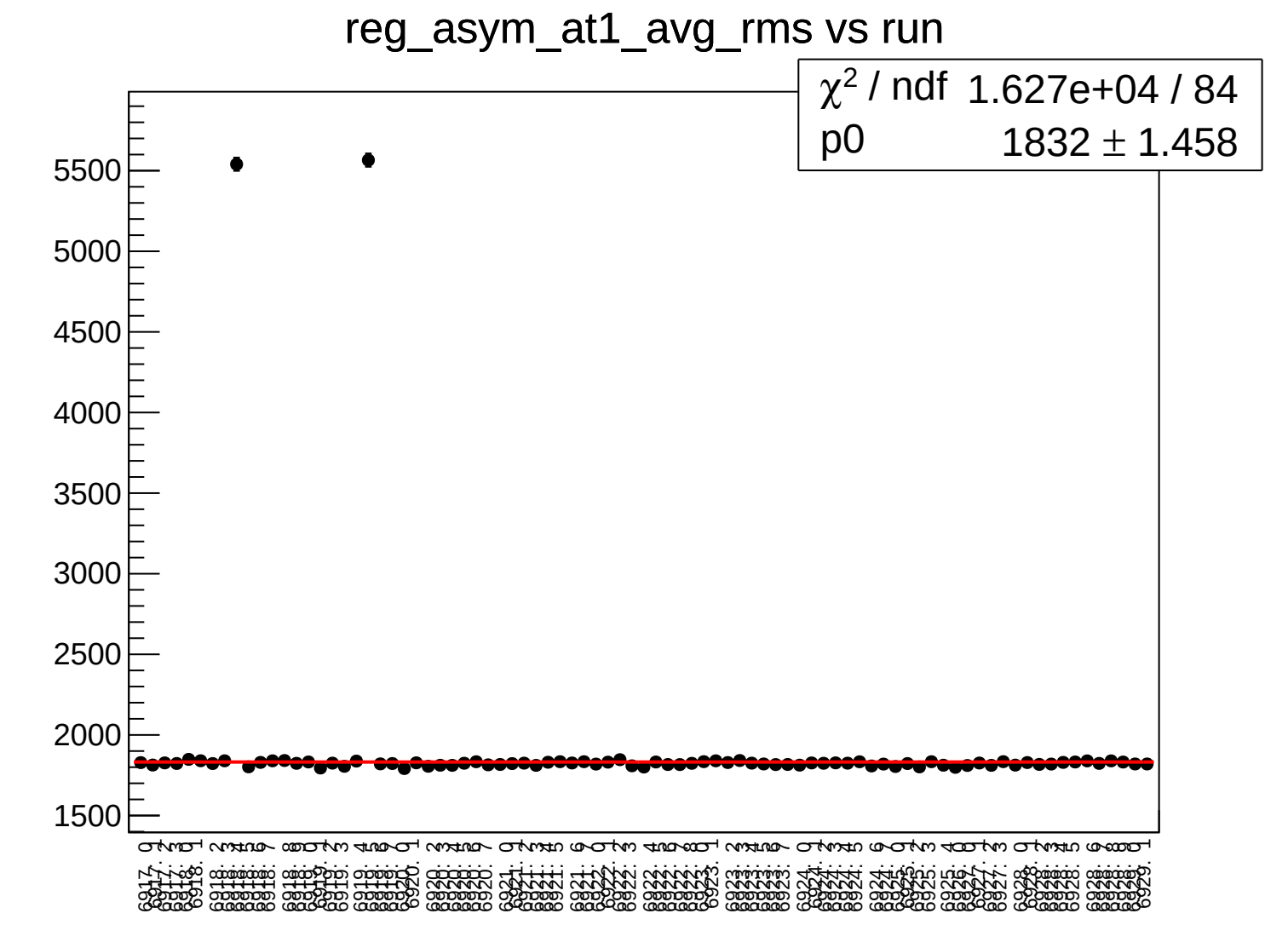

asym_atr_dd_mean vs run
×10^3
χ² / ndf 40.91 / 84
p0 2248 ± 5671
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean −98.83
Std Dev 143.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

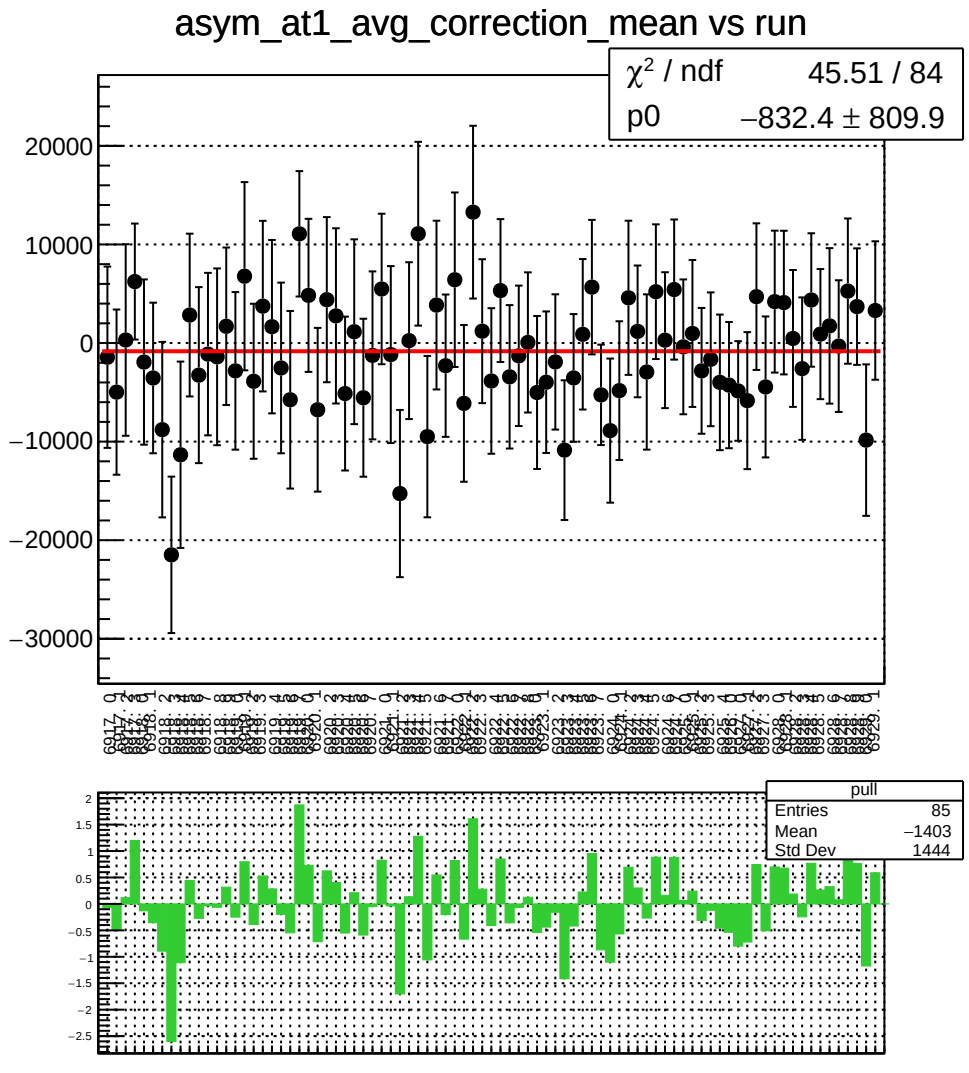

pull1D
Entries 85
Mean −0.007228
Std Dev 0.6937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

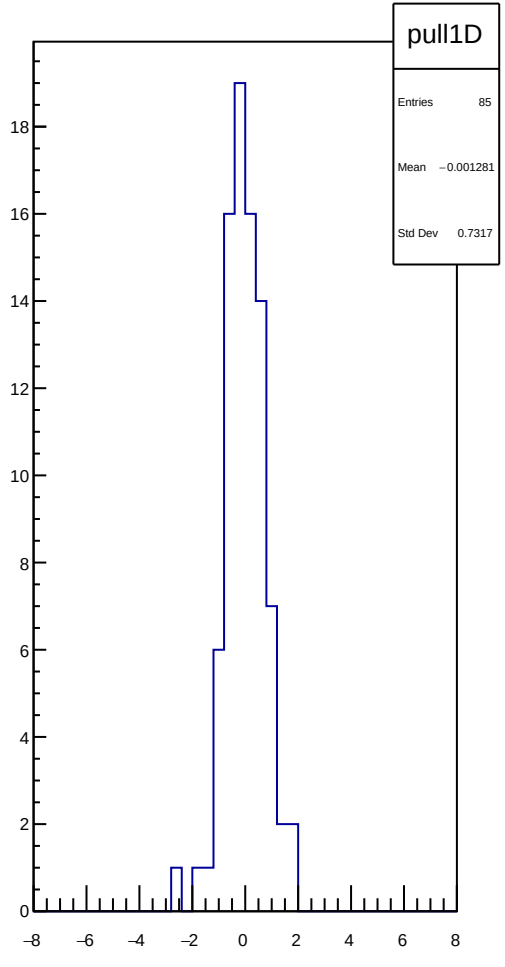

asym_atr_dd_rms vs run
χ² / ndf 9877 / 84
p0 5048 ± 4.01
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

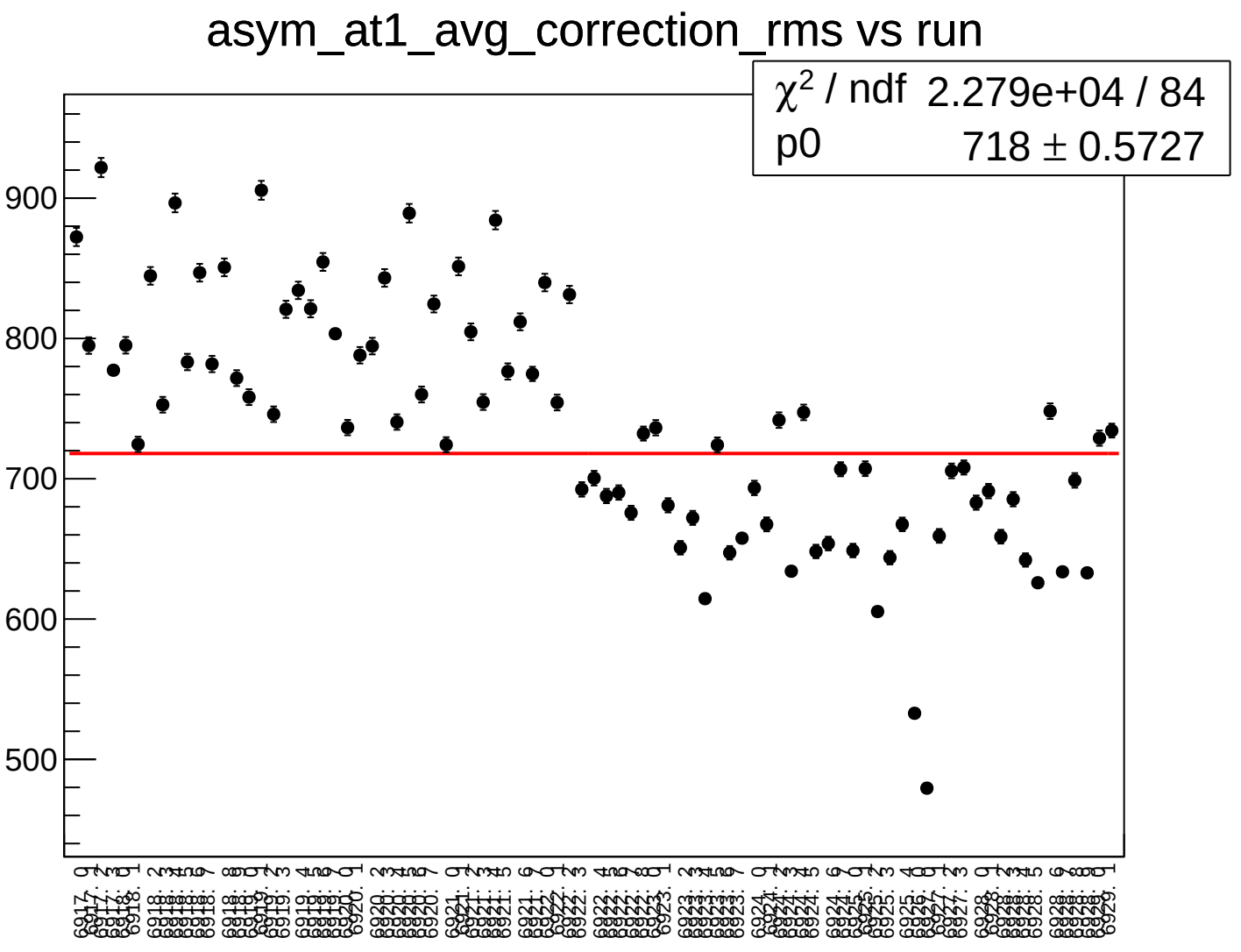

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 93.12 / 84
p0 6683 ± 2062
100
50
0
−50
−100
pull
Entries 85
Mean −41.79
Std Dev 95.62
3
2
1
0
−1
−2

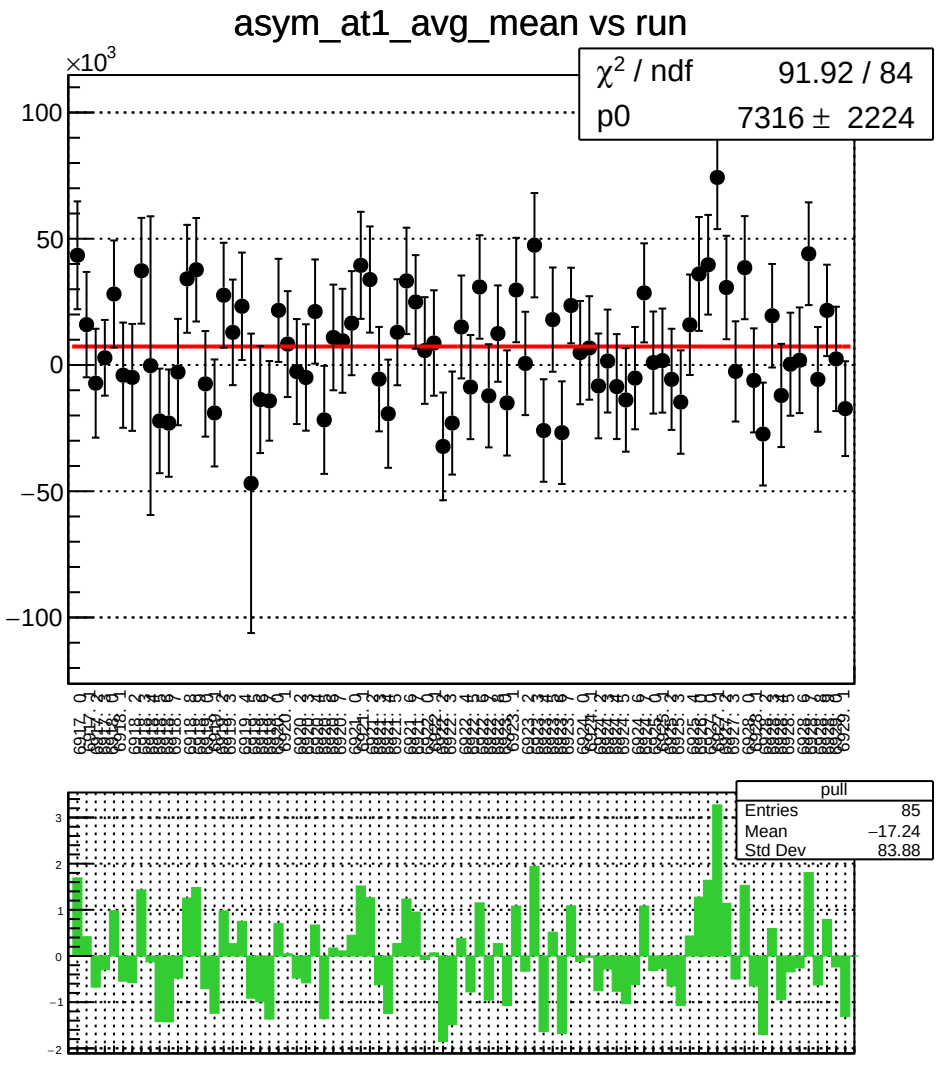

pull1D
Entries 85
Mean −0.01293
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

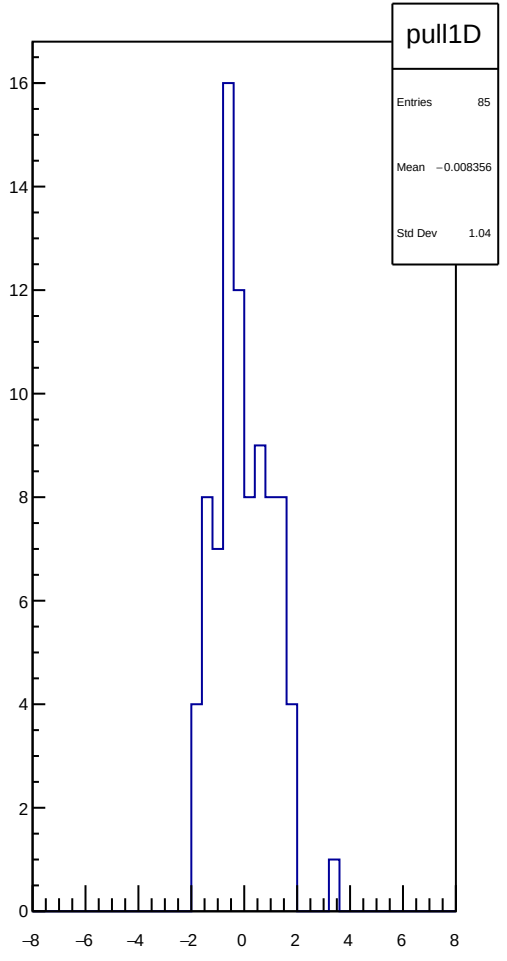

reg_asym_at1_avg_rms vs run
χ^2 / ndf 1.627e+04 / 84
p0 1832 ± 1.458
5500
5000
4500
4000
3500
3000
2500
2000
1500

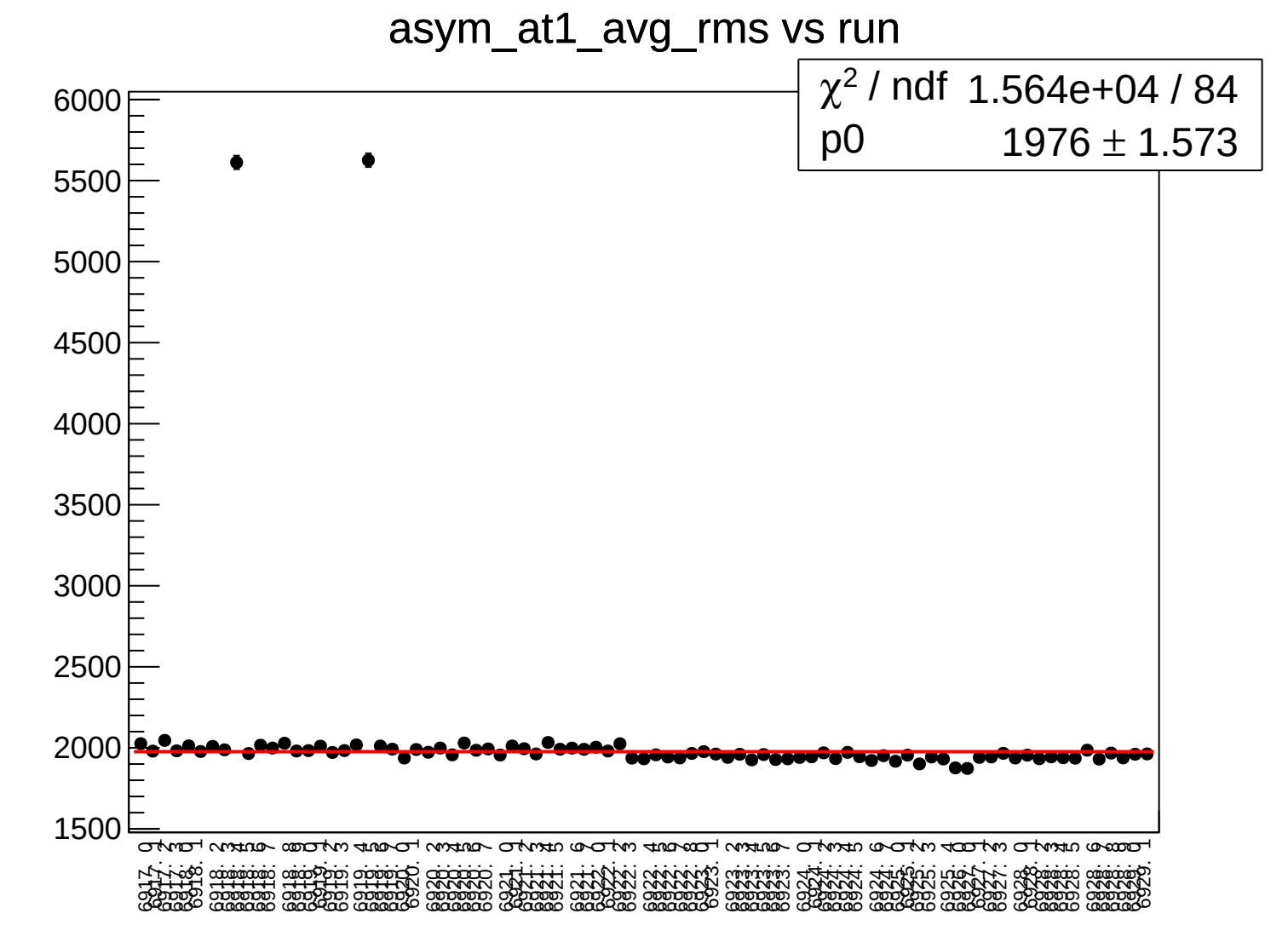

asym_at1_avg_correction_mean vs run
χ² / ndf 45.51 / 84
p0 −832.4 ± 809.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −1403
Std Dev 1444
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

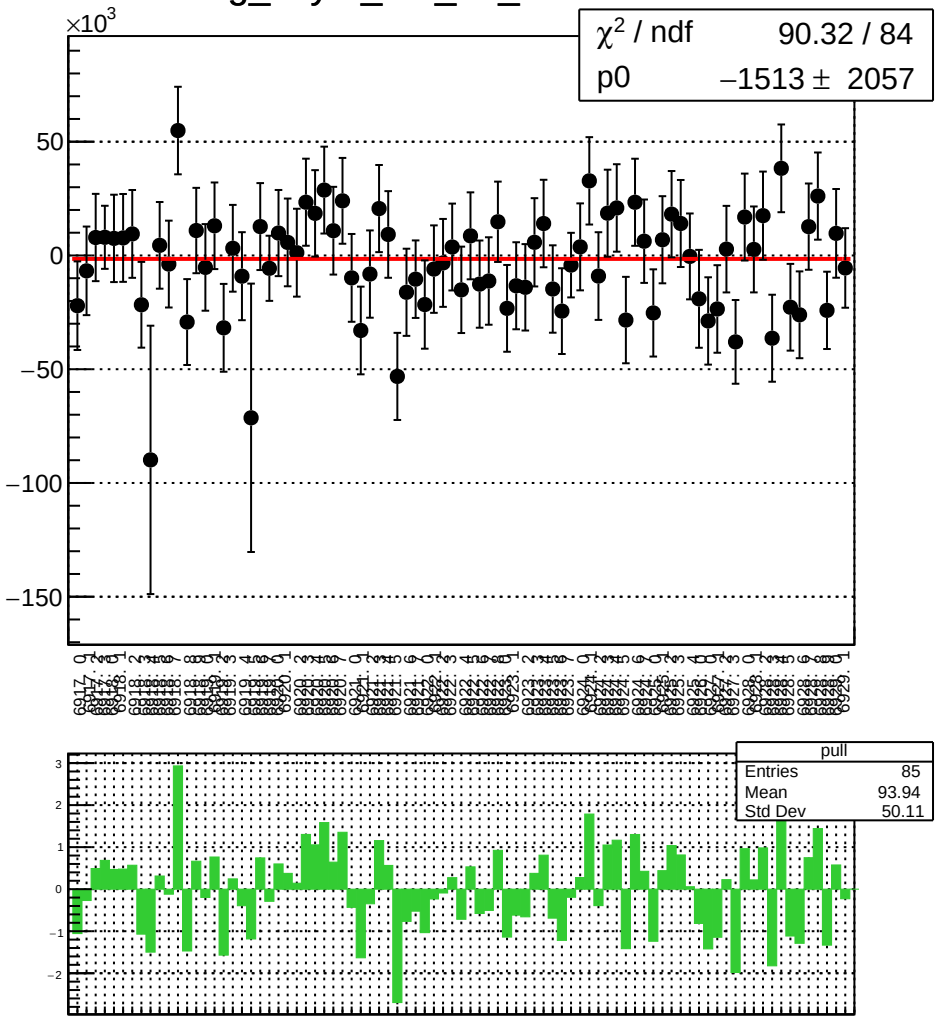

pull1D
Entries 85
Mean −0.001281
Std Dev 0.7317
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

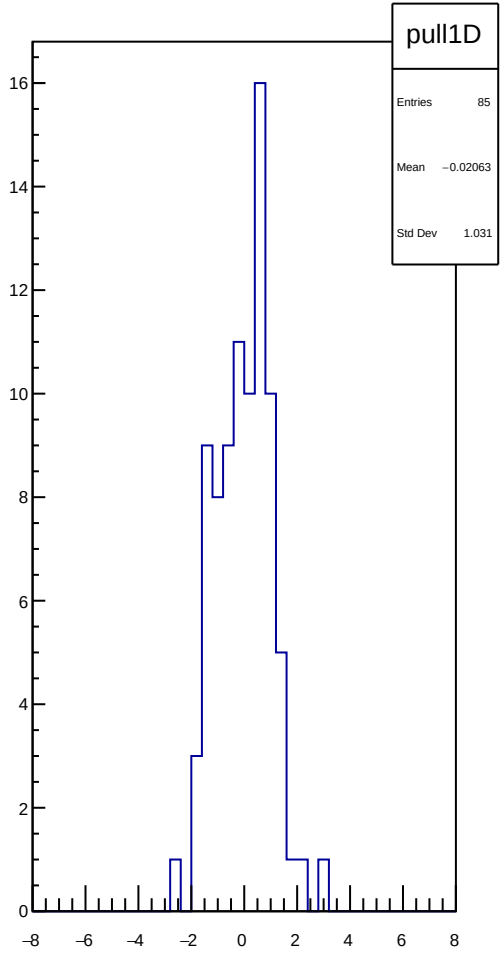

asym_at1_avg_correction_rms vs run
χ^2 / ndf 2.279e+04 / 84
p0 718 ± 0.5727
900
800
700
600
500

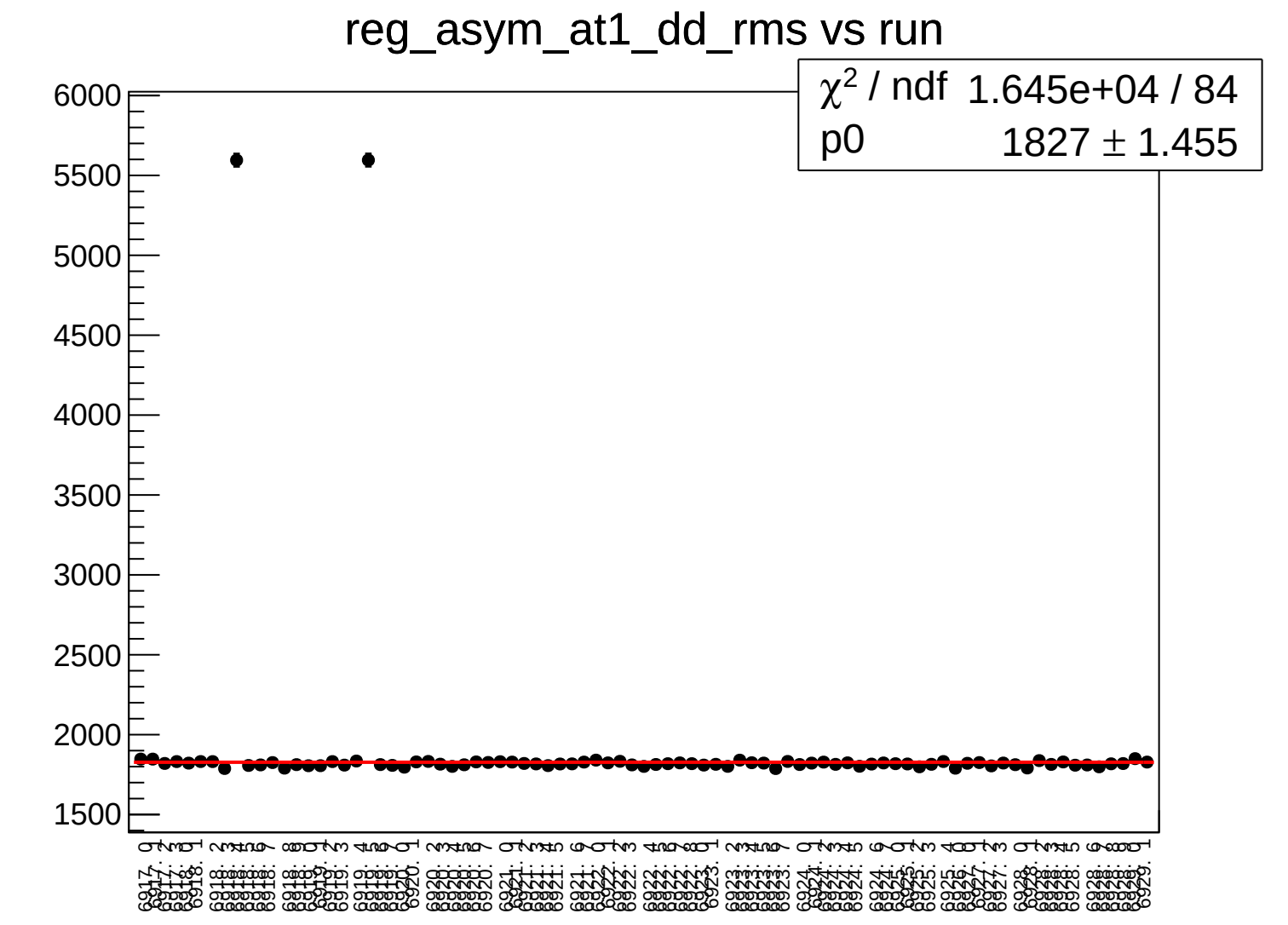

asym_at1_avg_mean vs run
×10^3
χ² / ndf 91.92 / 84
p0 7316 ± 2224
100
50
0
−50
−100
pull
Entries 85
Mean −17.24
Std Dev 83.88
3
2
1
0
−1
−2

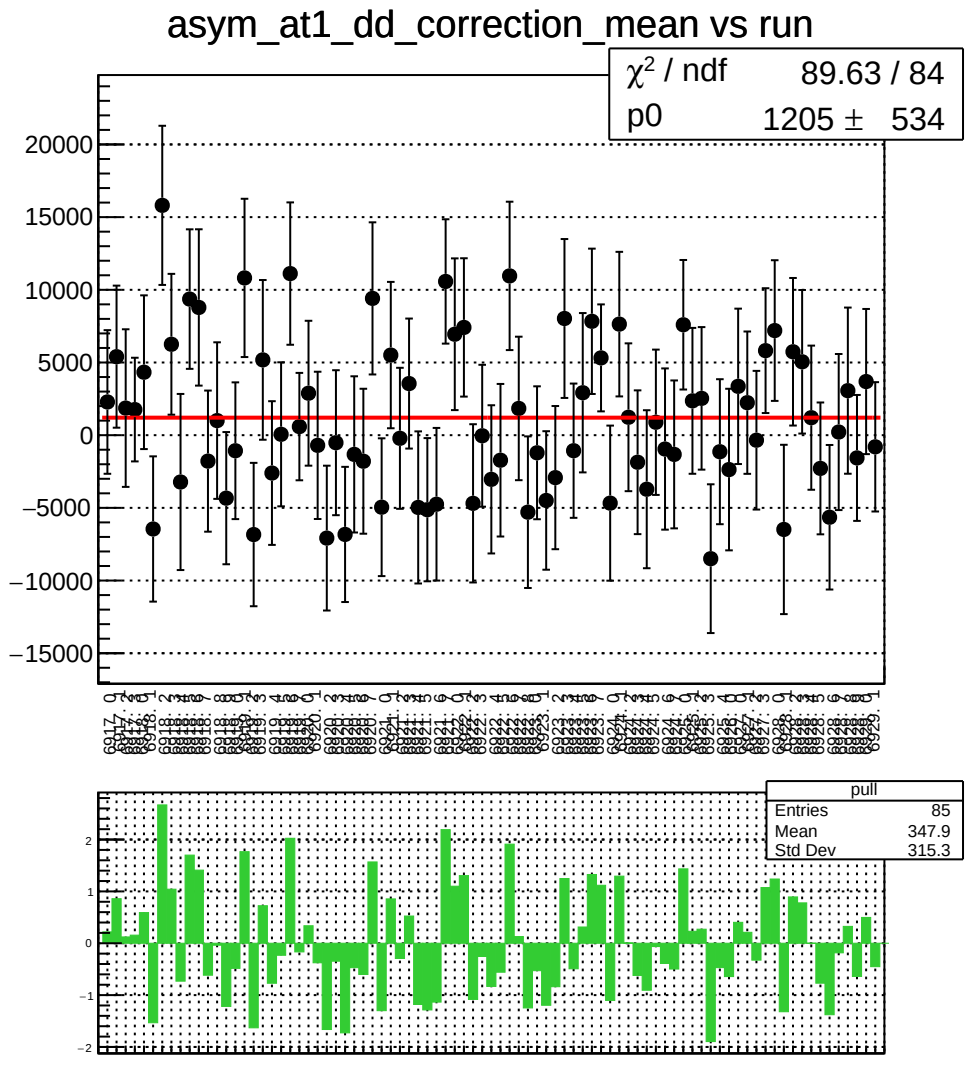

pull1D
Entries 85
Mean −0.008356
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

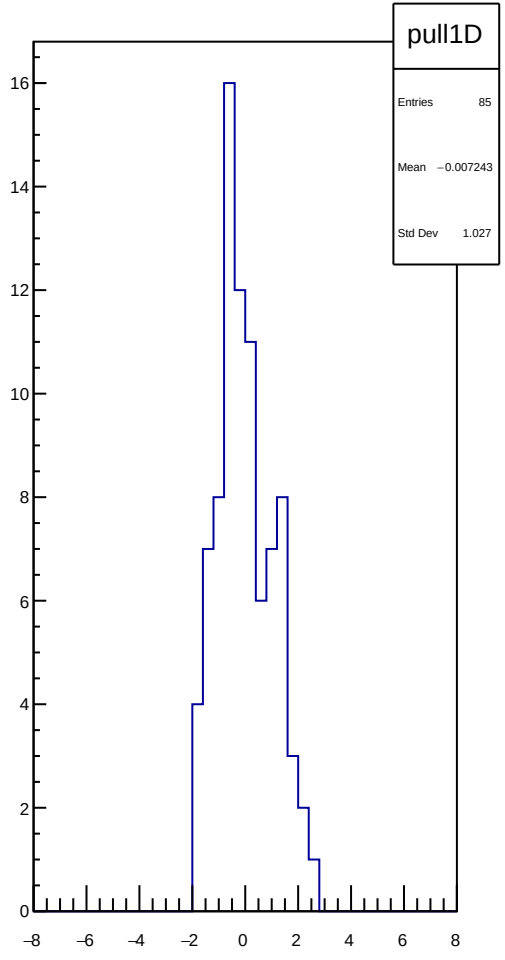

asym_at1_avg_rms vs run
χ^2 / ndf 1.564e+04 / 84
p0 1976 ± 1.573
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

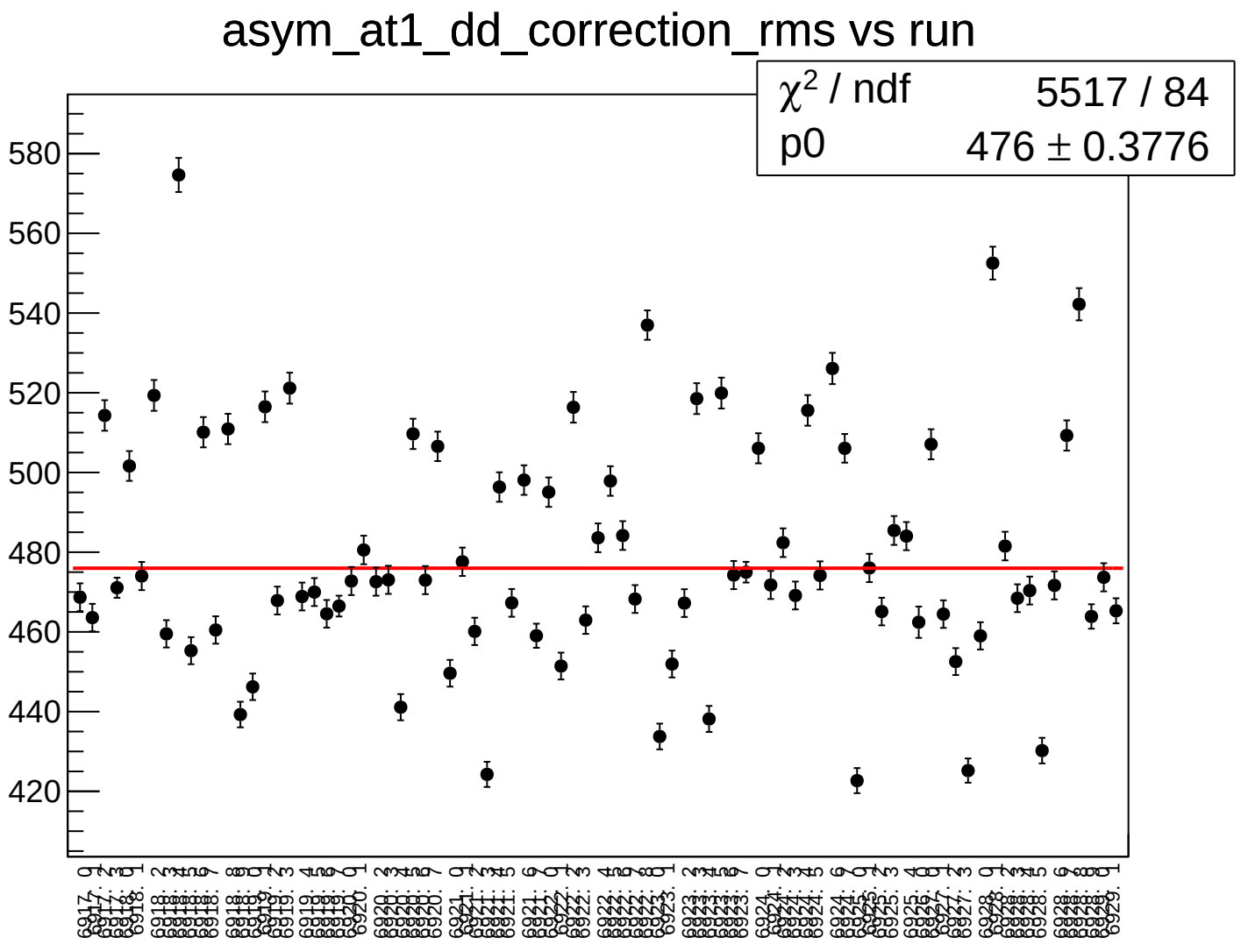

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 90.32 / 84
p0 −1513 ± 2057
50
0
−50
−100
−150
pull
Entries 85
Mean 93.94
Std Dev 50.11
3
2
1
0
−1
−2

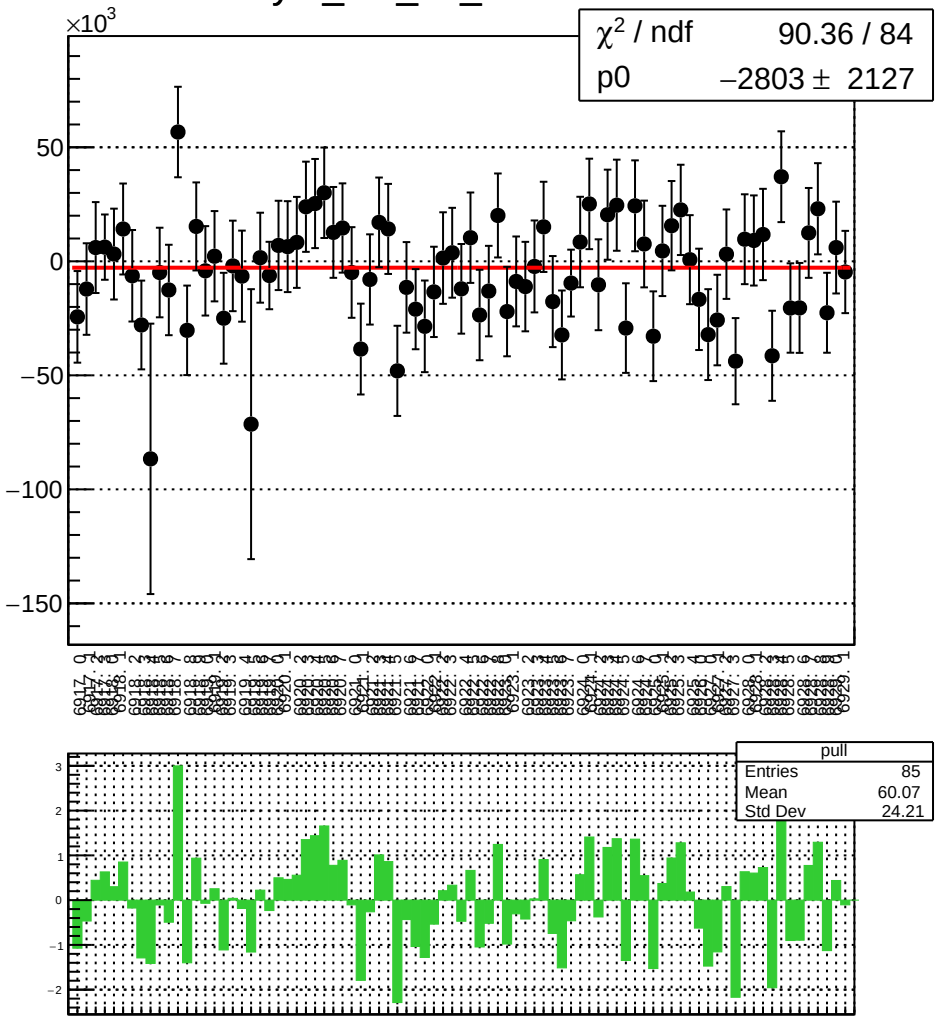

pull1D
Entries 85
Mean −0.02063
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

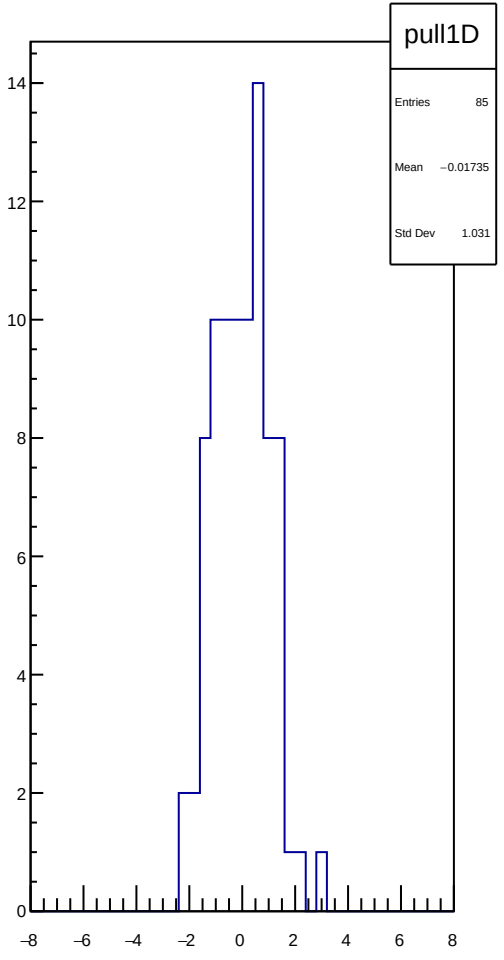

reg_asym_at1_dd_rms vs run
χ^2 / ndf 1.645e+04 / 84
p0 1827 ± 1.455
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

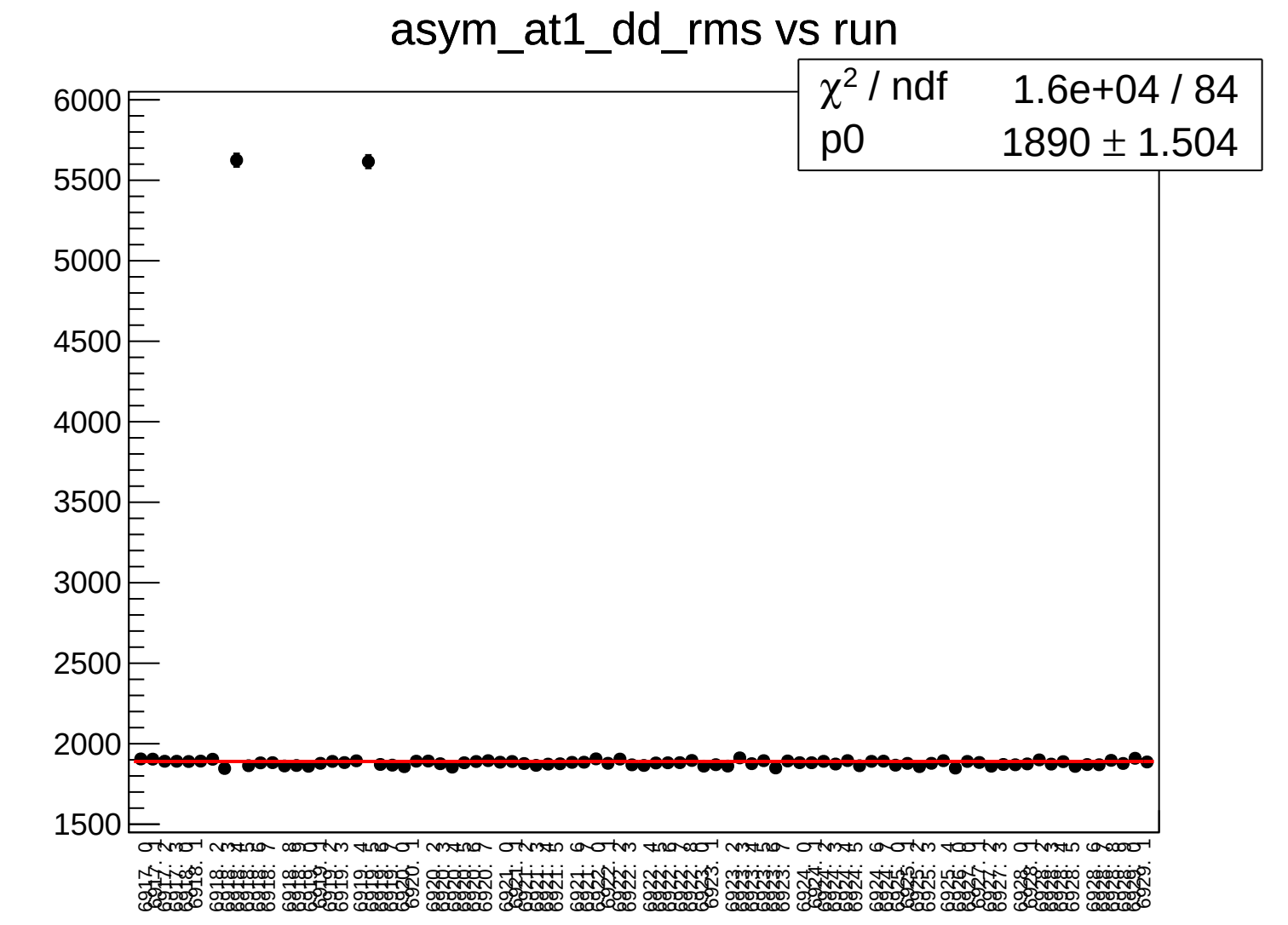

asym_at1_dd_correction_mean vs run
χ² / ndf 89.63 / 84
p0 1205 ± 534
pull
Entries 85
Mean 347.9
Std Dev 315.3

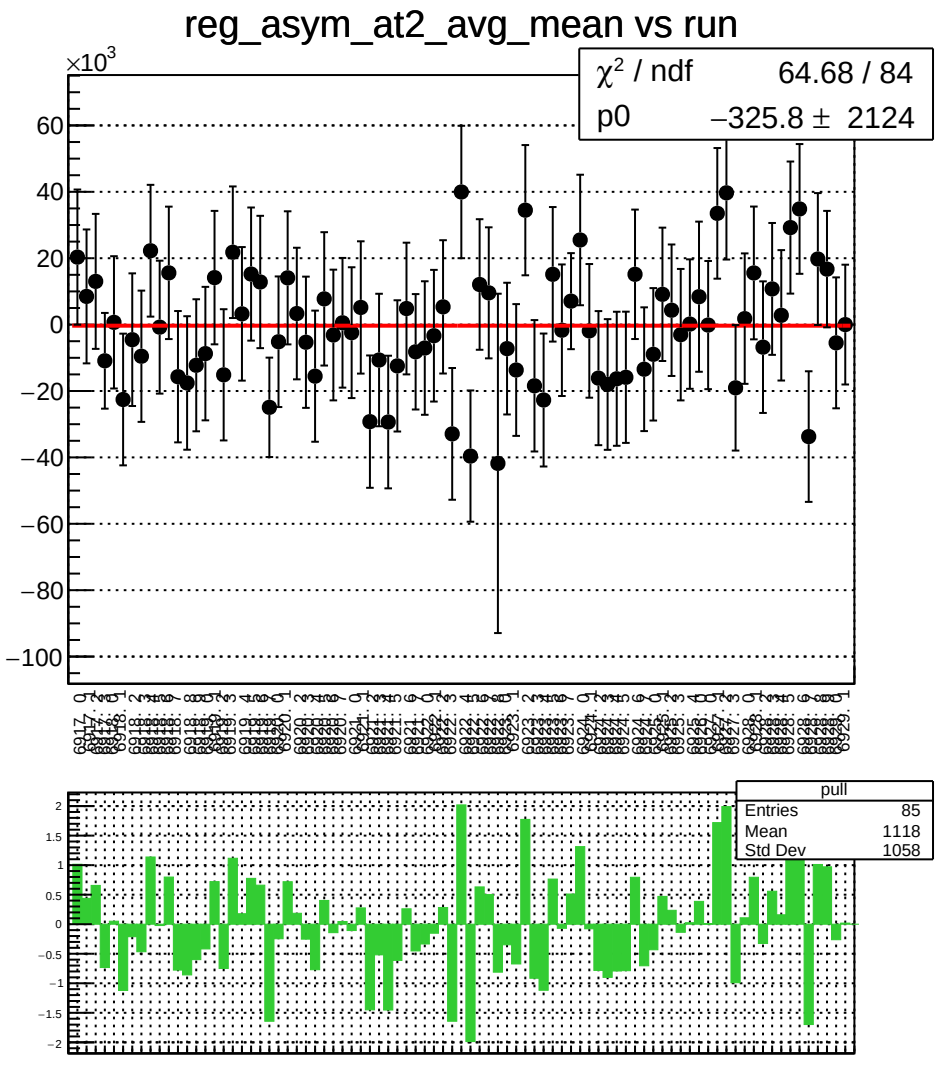

pull1D
Entries 85
Mean −0.007243
Std Dev 1.027

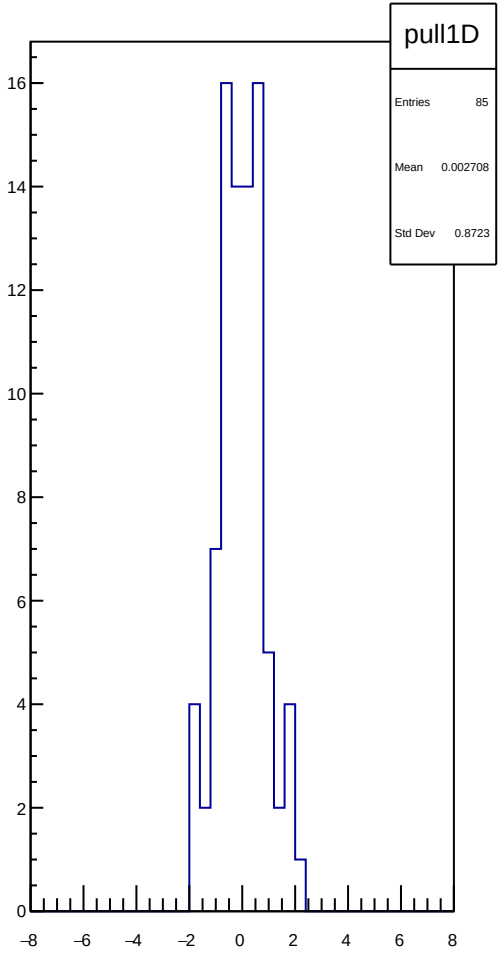

asym_at1_dd_correction_rms vs run
χ² / ndf 5517 / 84
p0 476 ± 0.3776
580
560
540
520
500
480
460
440
420

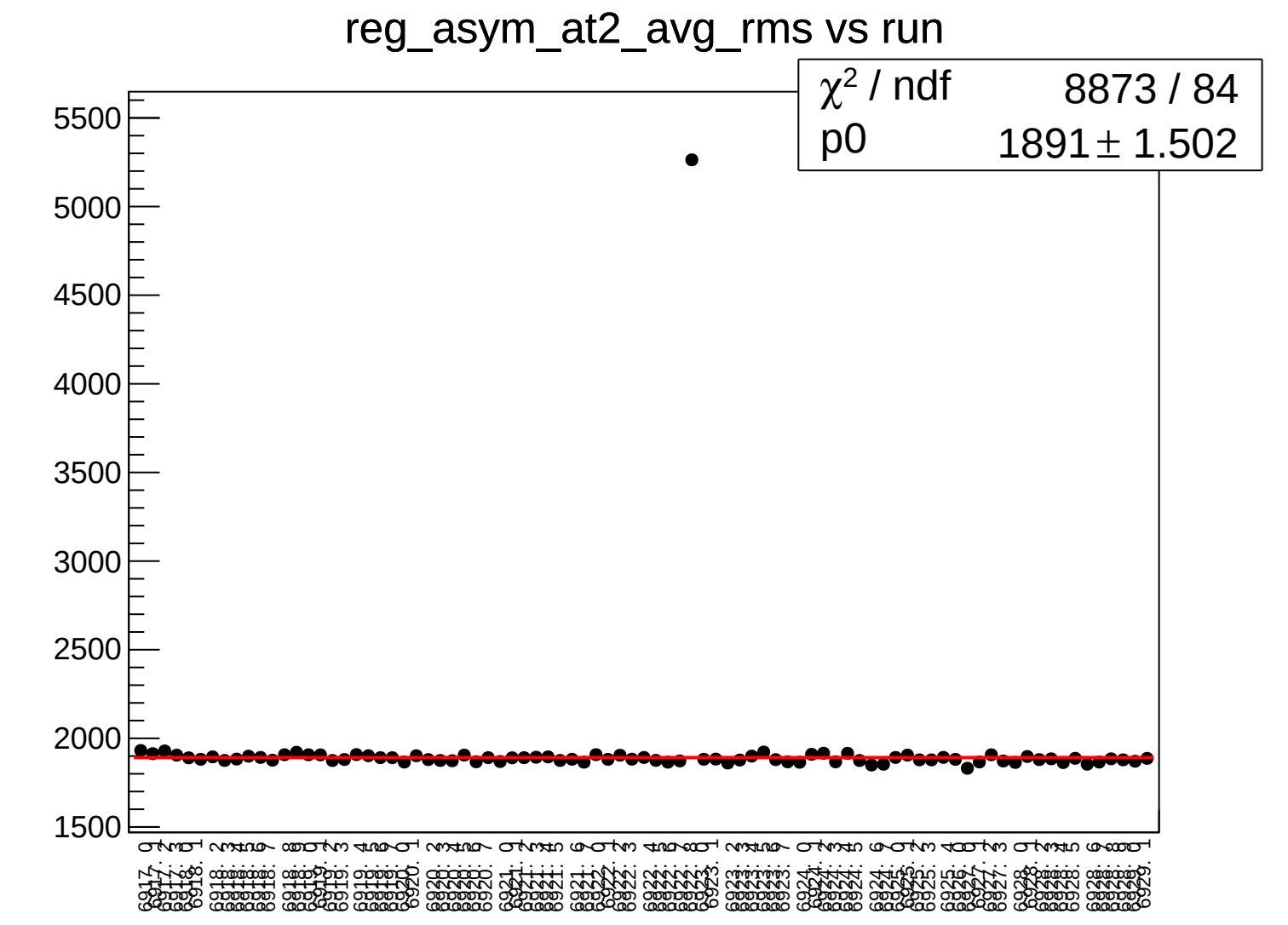

asym_at1_dd_mean vs run
×10^3
χ² / ndf 90.36 / 84
p0 −2803 ± 2127
50
0
−50
−100
−150
pull
Entries 85
Mean 60.07
Std Dev 24.21
3
2
1
0
−1
−2

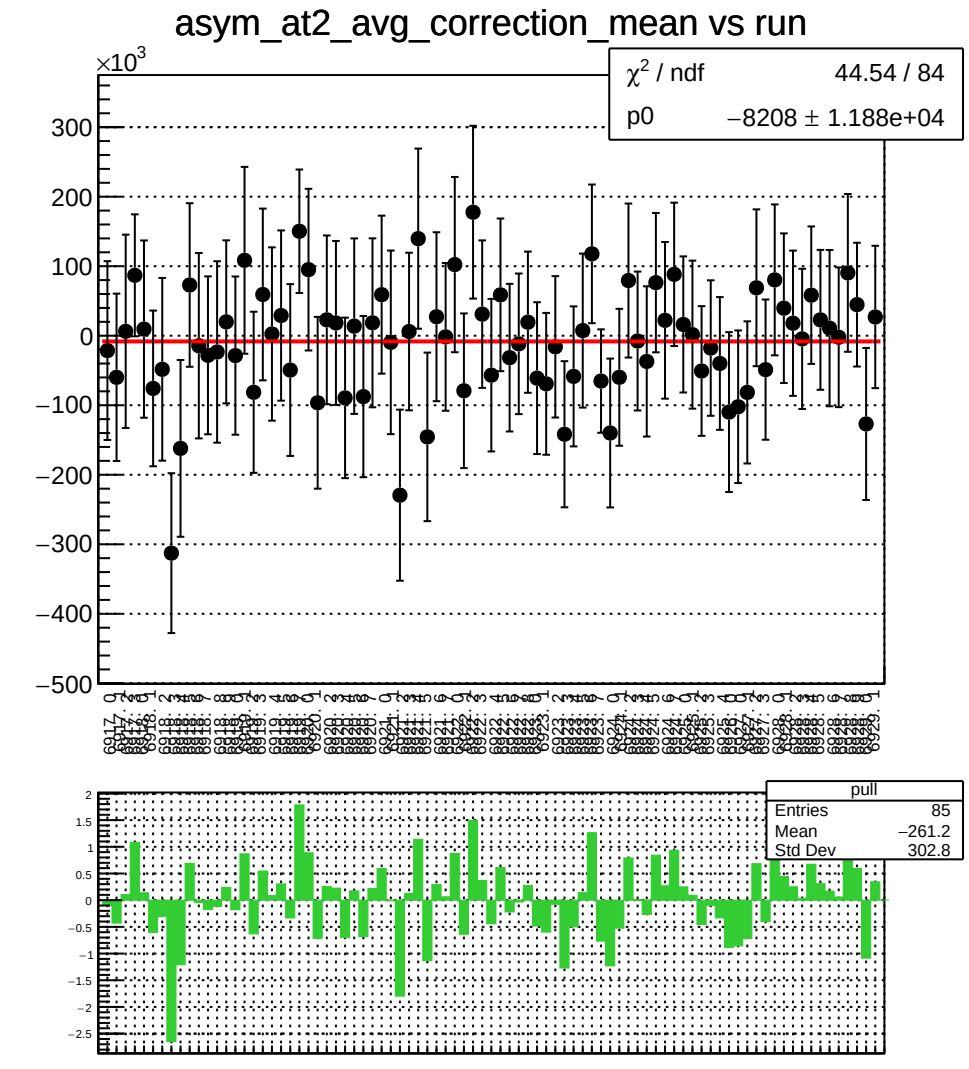

pull1D
Entries 85
Mean −0.01735
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

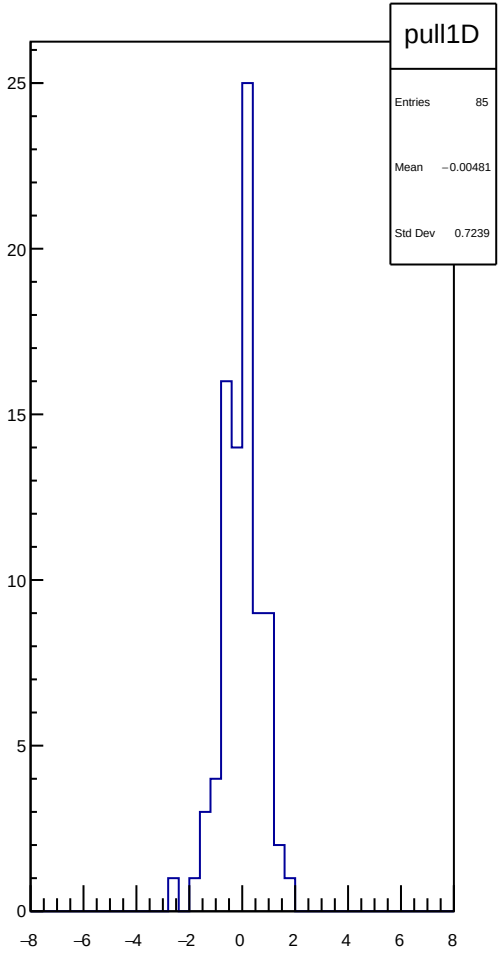

asym_at1_dd_rms vs run
χ² / ndf 1.6e+04 / 84
p0 1890 ± 1.504
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500


reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 64.68 / 84
p0 −325.8 ± 2124
pull
Entries 85
Mean 1118
Std Dev 1058

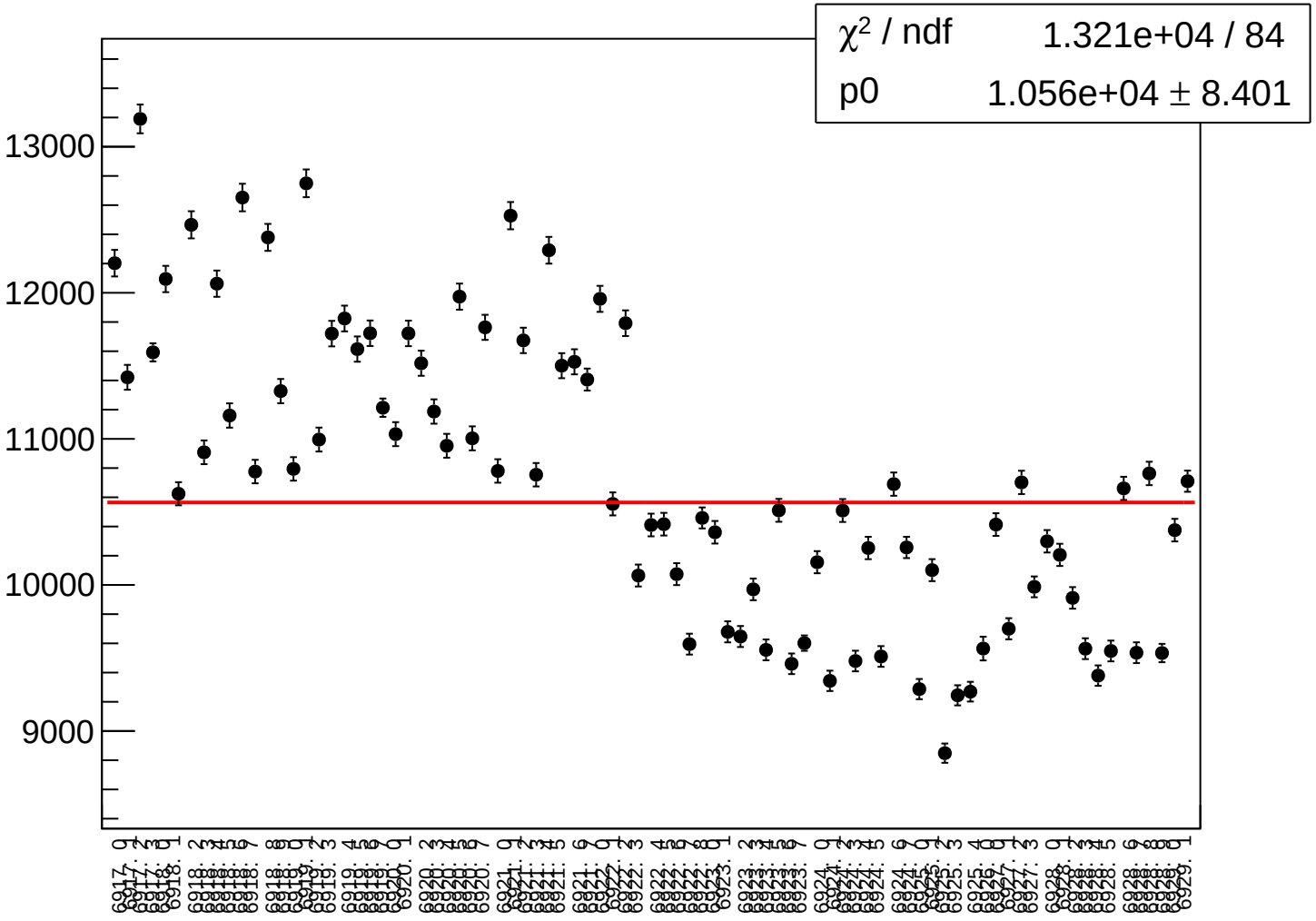

pull1D
Entries 85
Mean 0.002708
Std Dev 0.8723

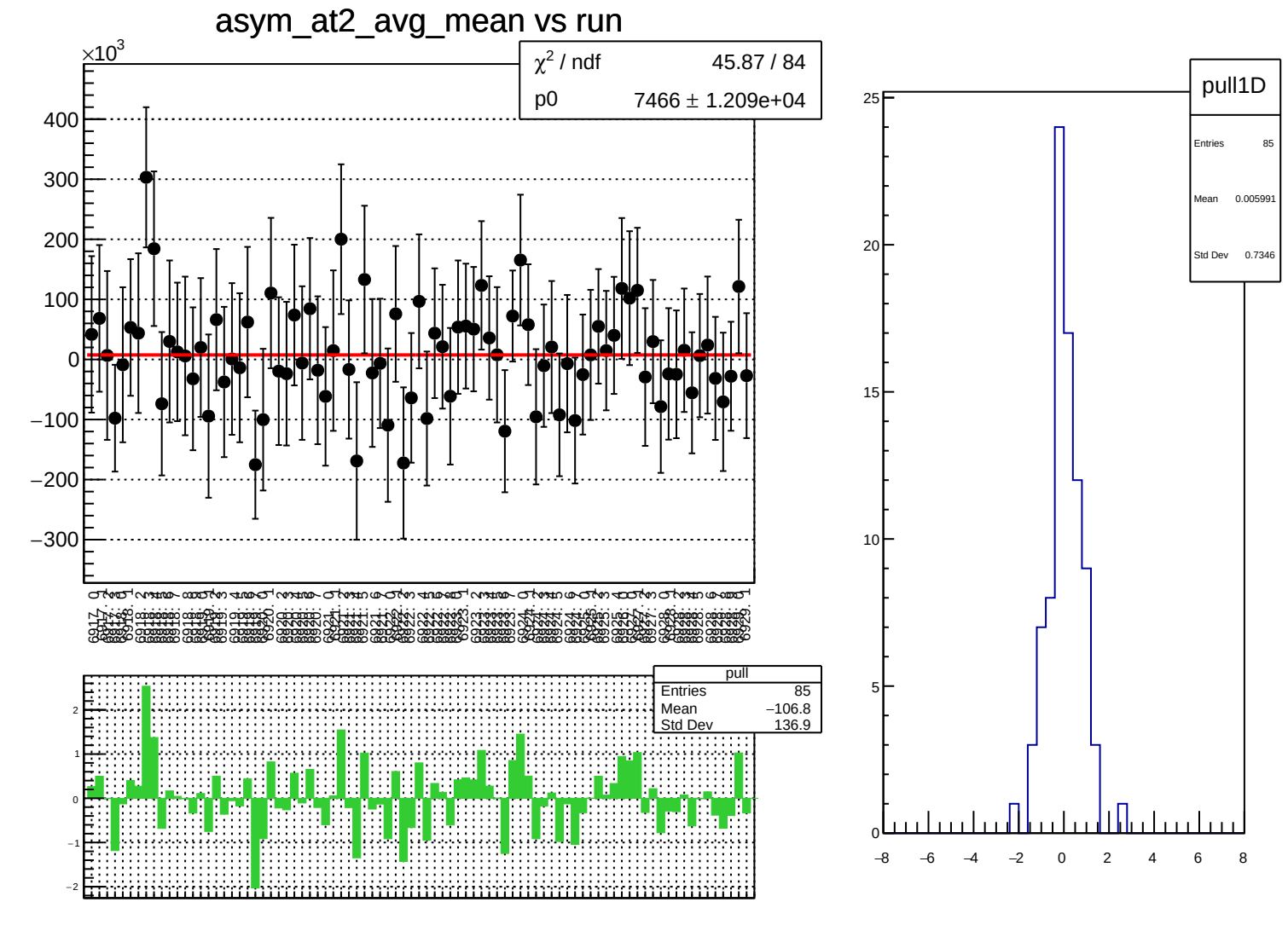

reg_asym_at2_avg_rms vs run
χ^2 / ndf 8873 / 84
p0 1891 ± 1.502
5500
5000
4500
4000
3500
3000
2500
2000
1500

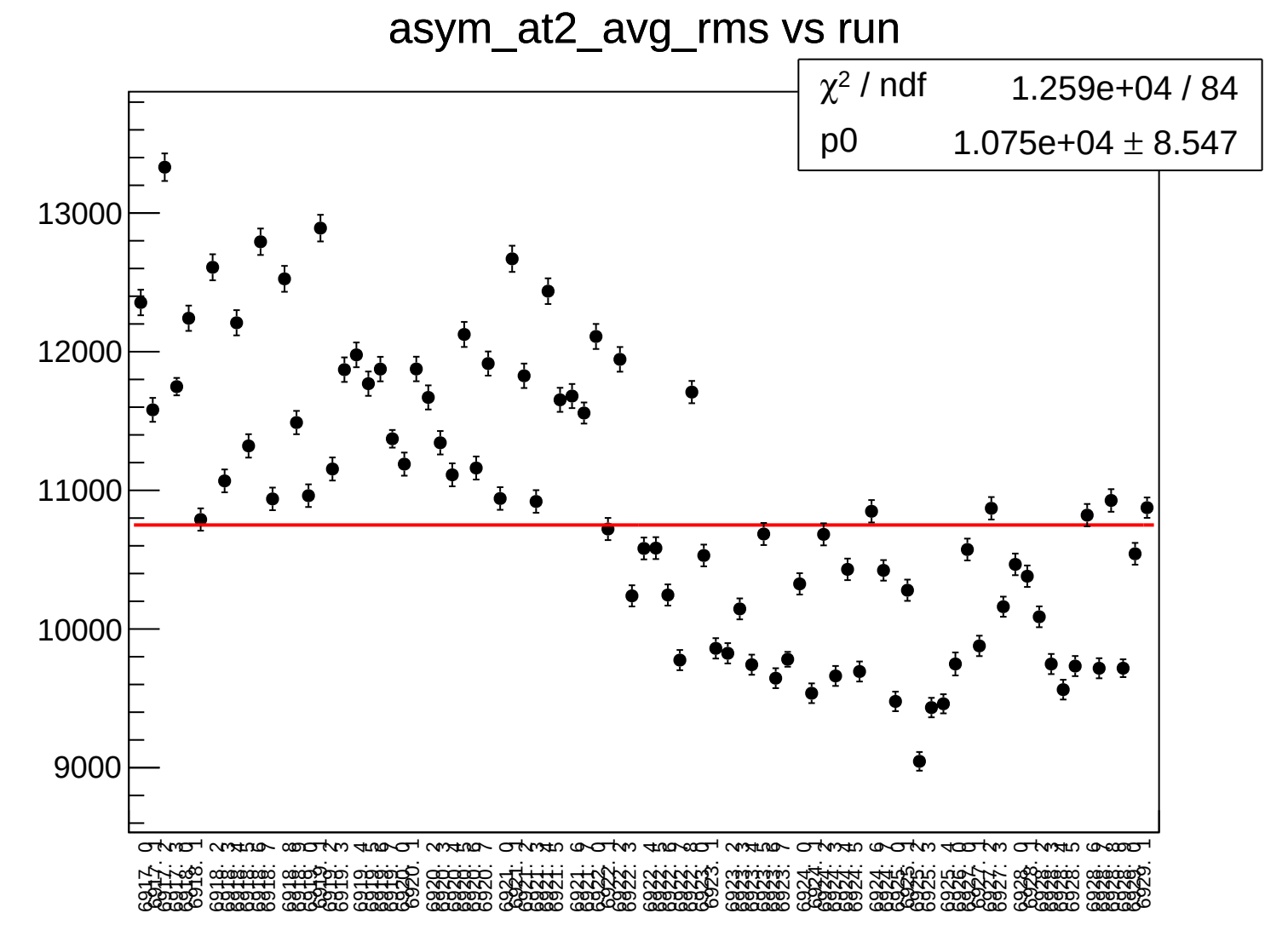

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 44.54 / 84
p0 −8208 ± 1.188e+04
pull
Entries 85
Mean −261.2
Std Dev 302.8

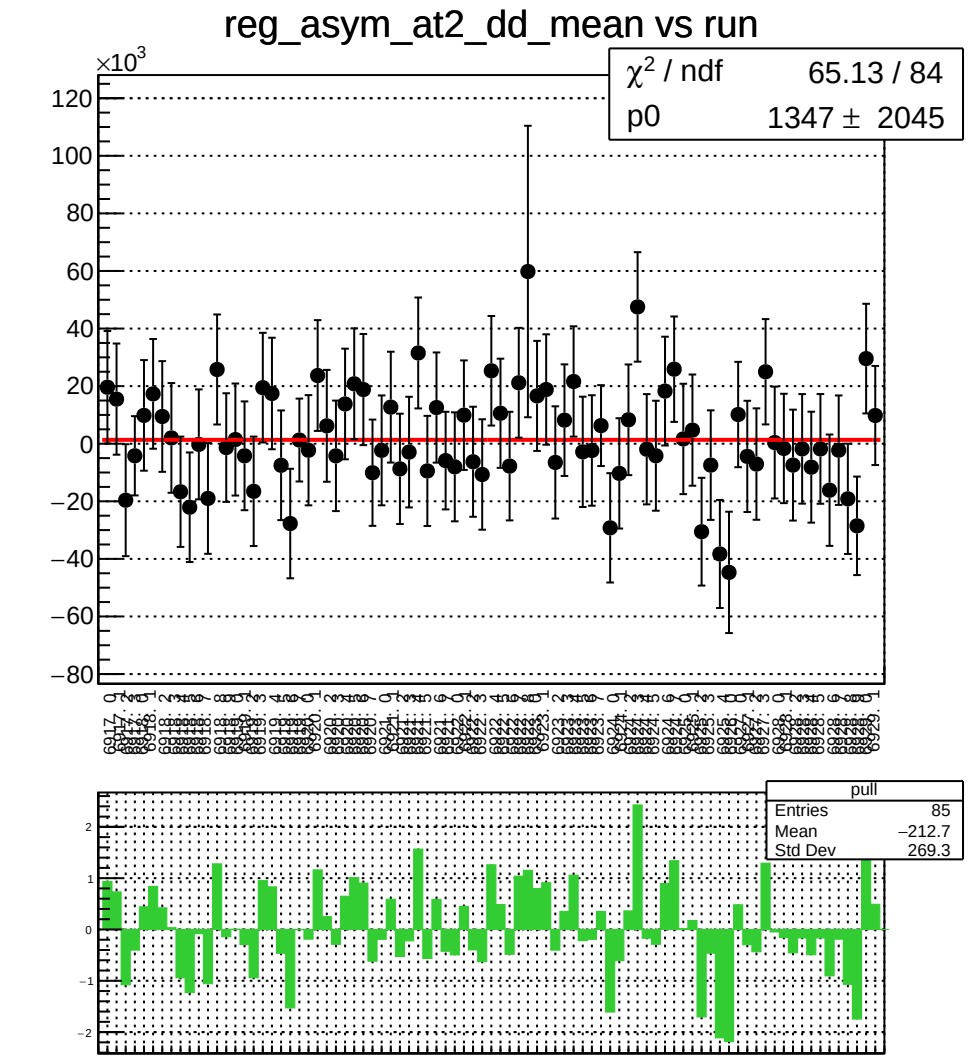

pull1D
Entries 85
Mean −0.00481
Std Dev 0.7239

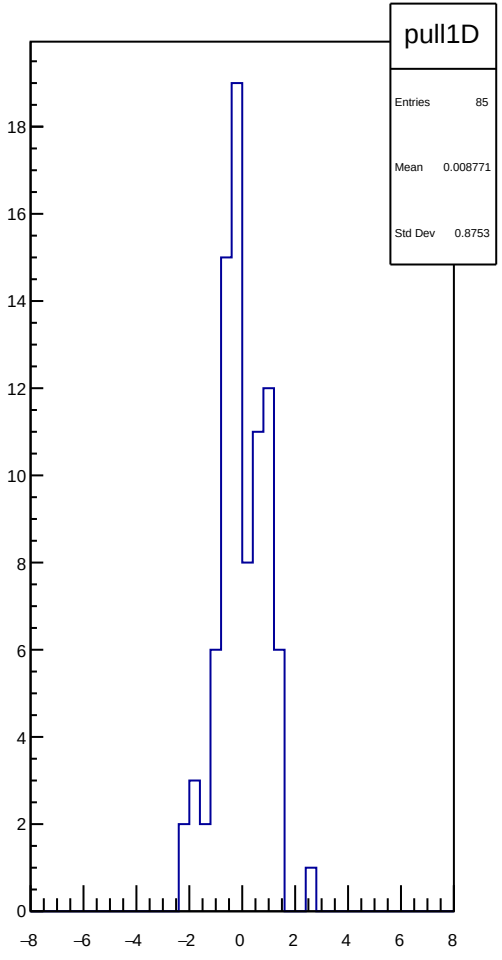
asym_at2_avg_correction_rms vs run

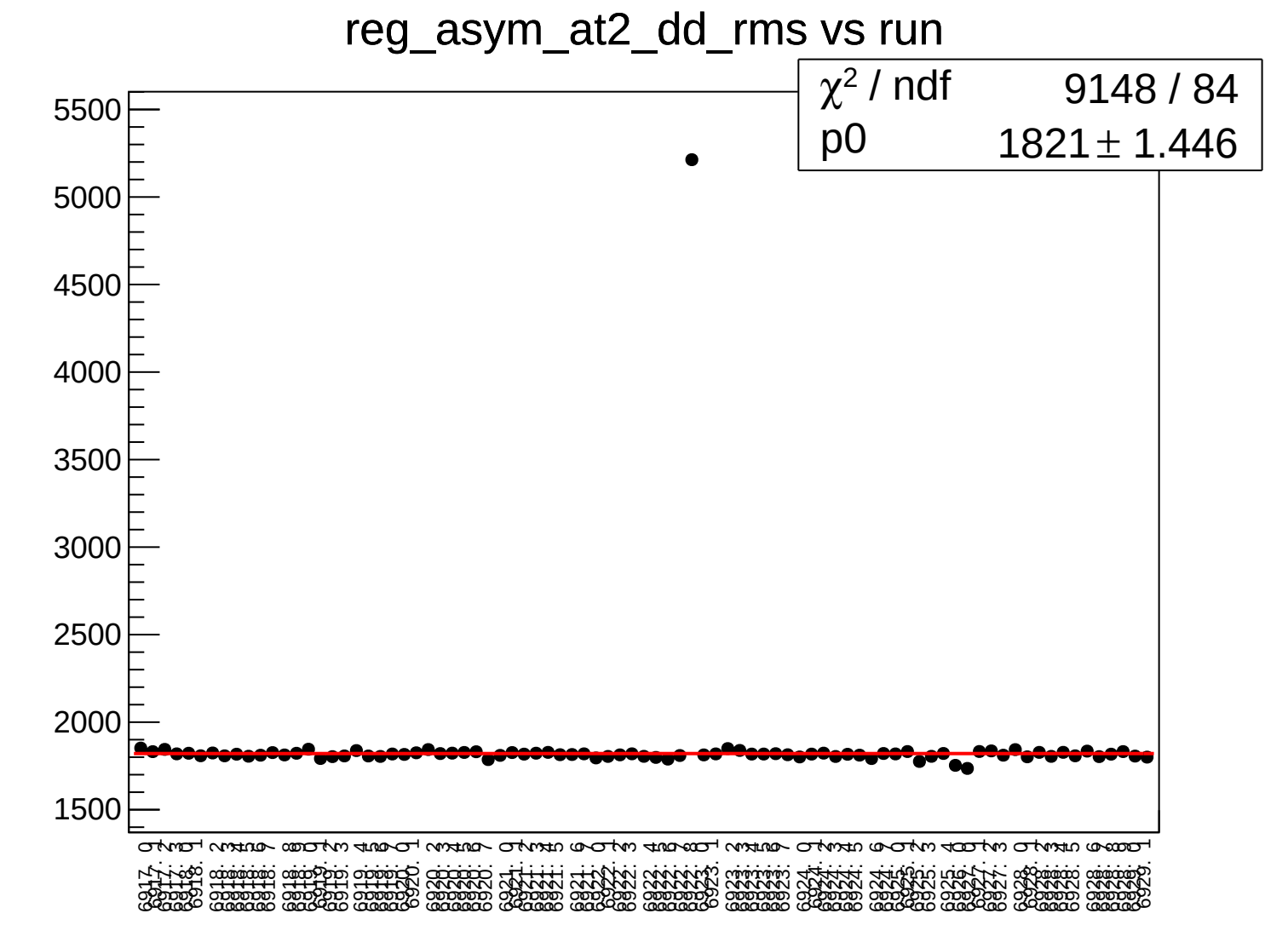


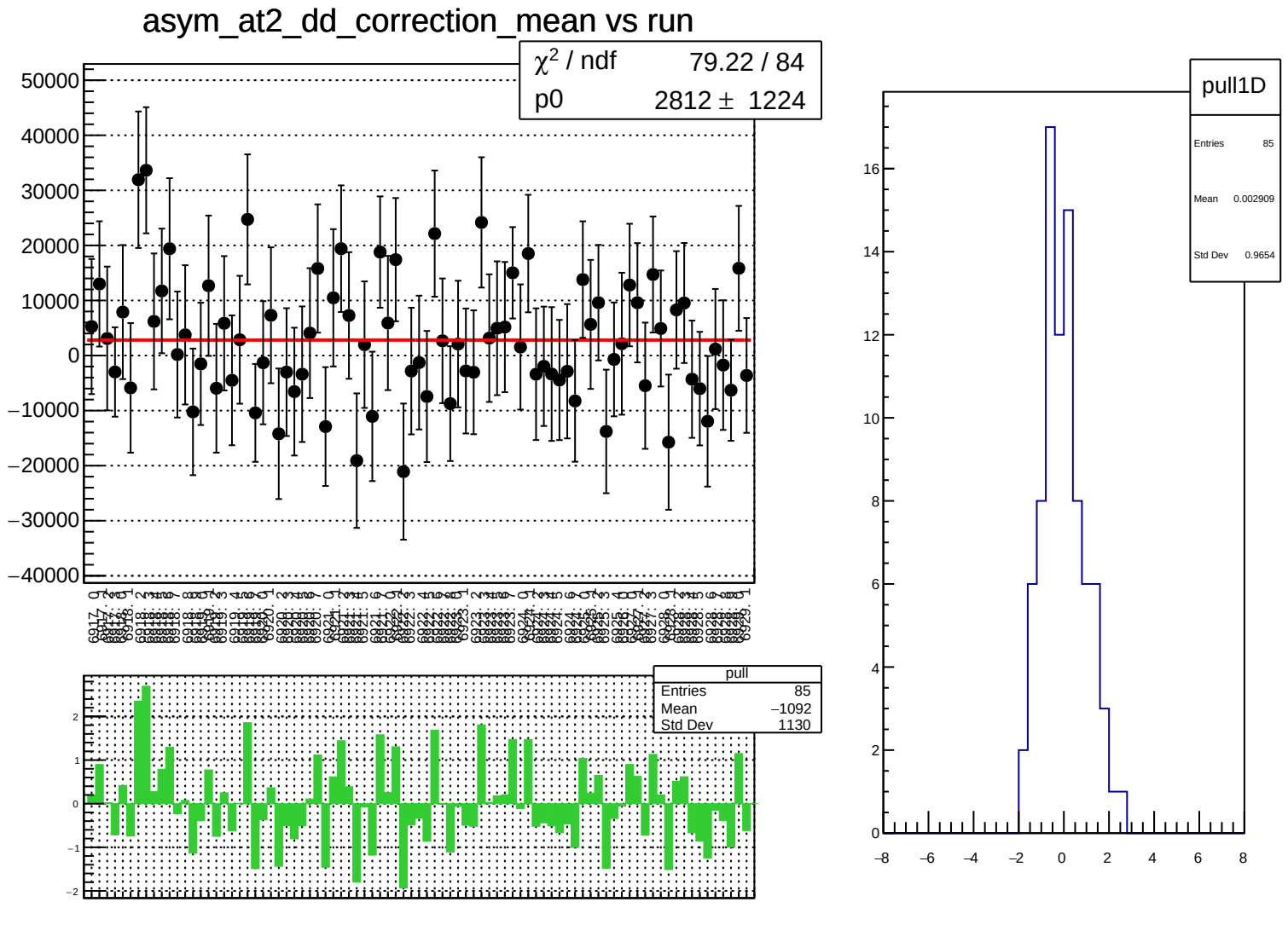

asym_at2_avg_mean vs run
×10^3
χ² / ndf 45.87 / 84
p0 7466 ± 1.209e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 85
Mean −106.8
Std Dev 136.9
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005991
Std Dev 0.7346
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

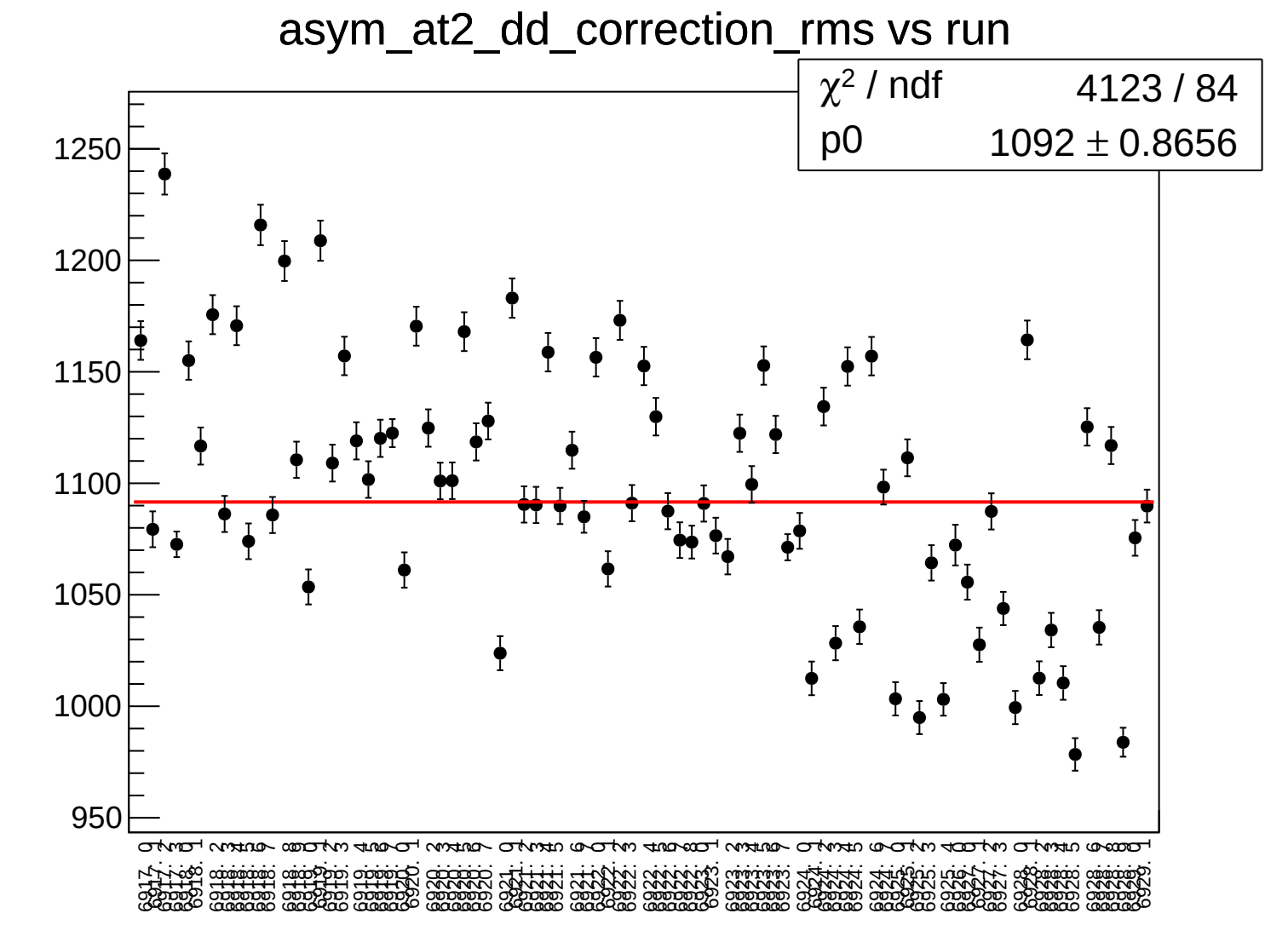

asym_at2_avg_rms vs run
χ² / ndf 1.259e+04 / 84
p0 1.075e+04 ± 8.547
13000
12000
11000
10000
9000

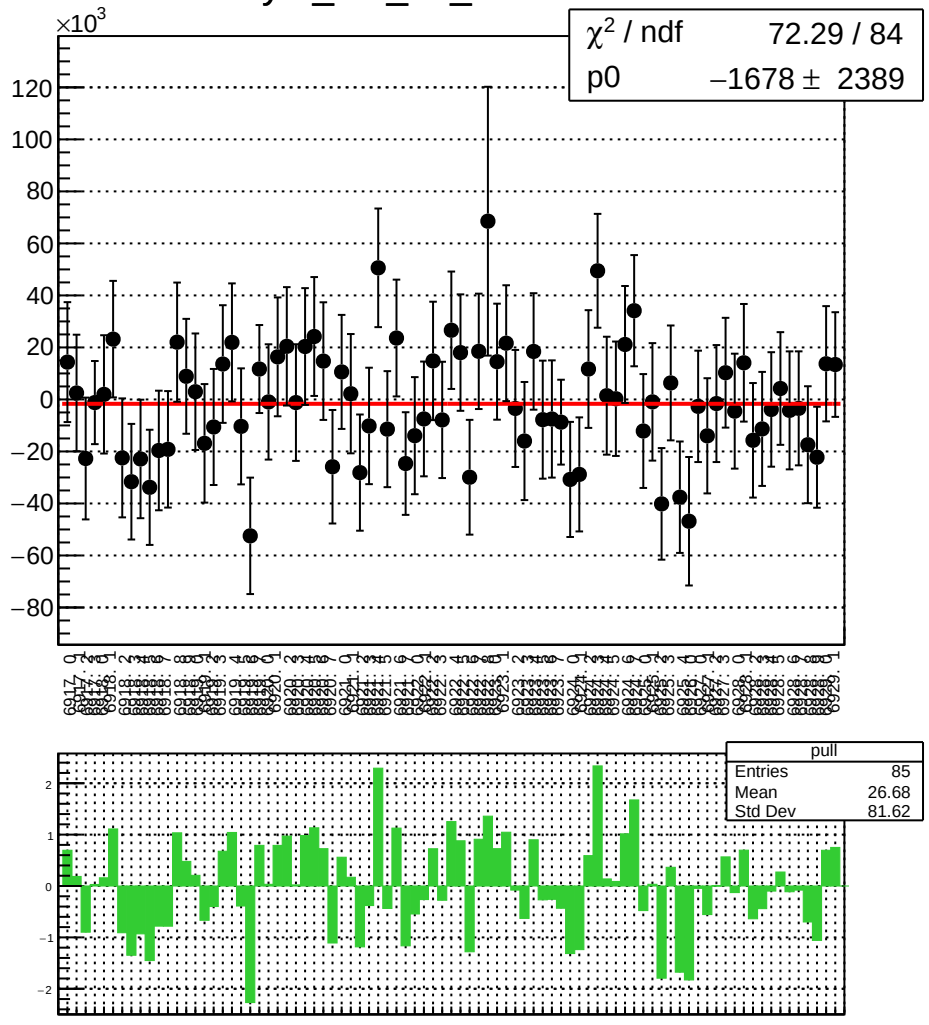

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 65.13 / 84
p0 1347 ± 2045
pull
Entries 85
Mean −212.7
Std Dev 269.3

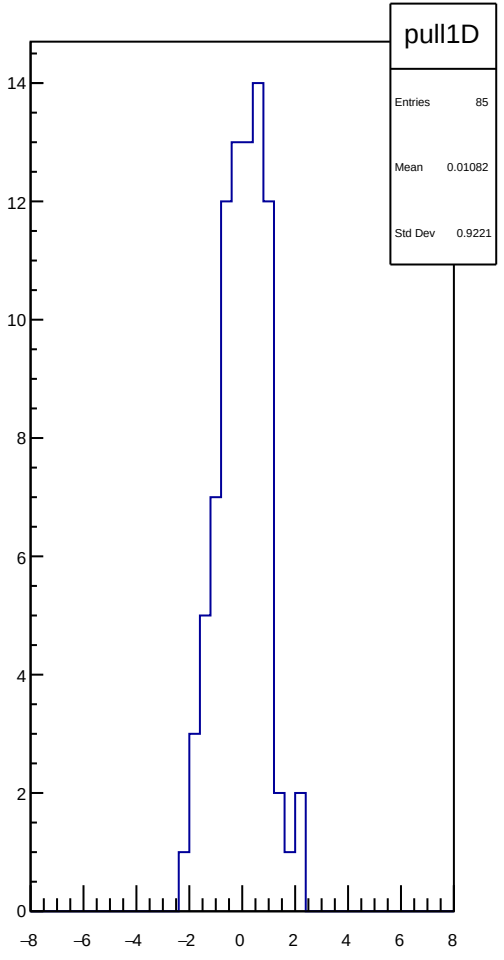

pull1D
Entries 85
Mean 0.008771
Std Dev 0.8753

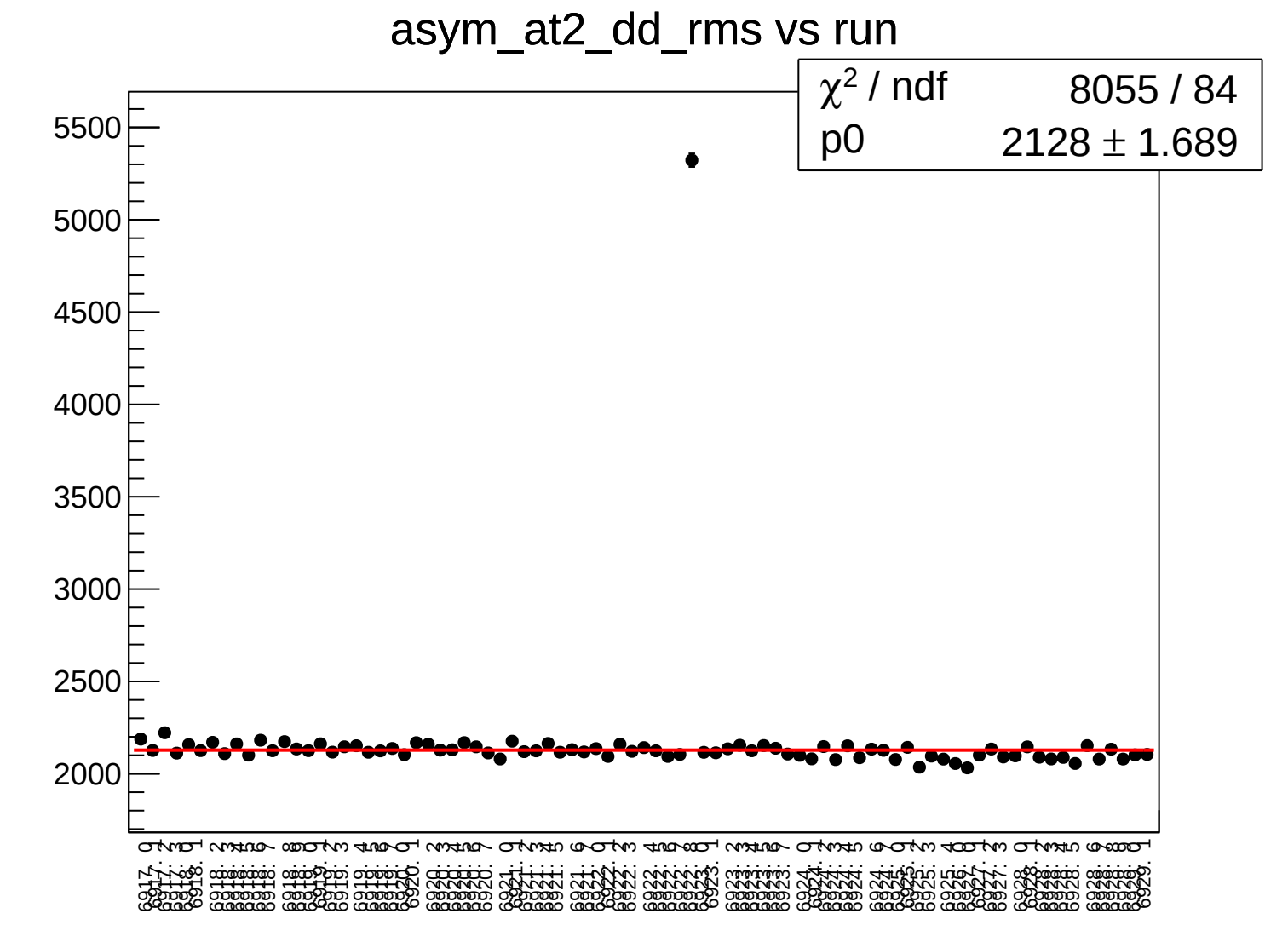

reg_asym_at2_dd_rms vs run
χ^2 / ndf 9148 / 84
p0 1821 ± 1.446
5500
5000
4500
4000
3500
3000
2500
2000
1500

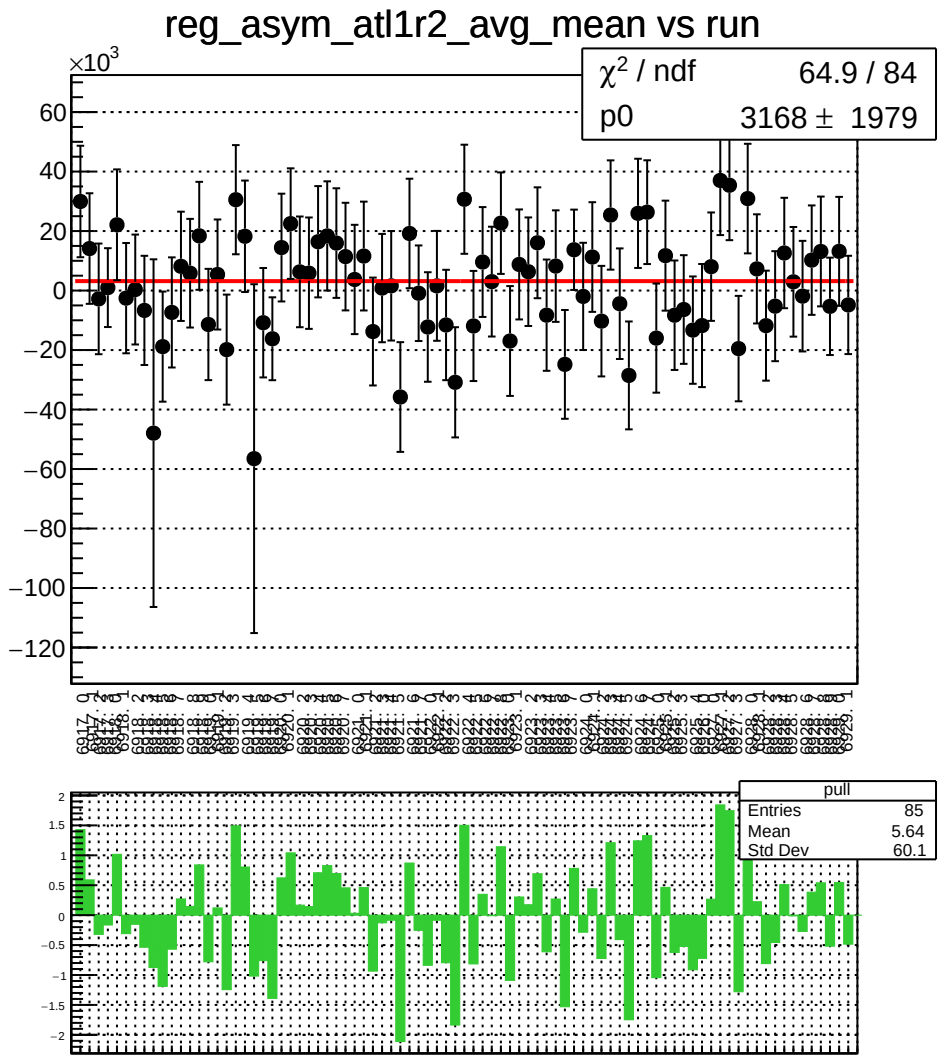

asym_at2_dd_correction_mean vs run
χ² / ndf 79.22 / 84
p0 2812 ± 1224
pull
Entries 85
Mean −1092
Std Dev 1130
pull1D
Entries 85
Mean 0.002909
Std Dev 0.9654

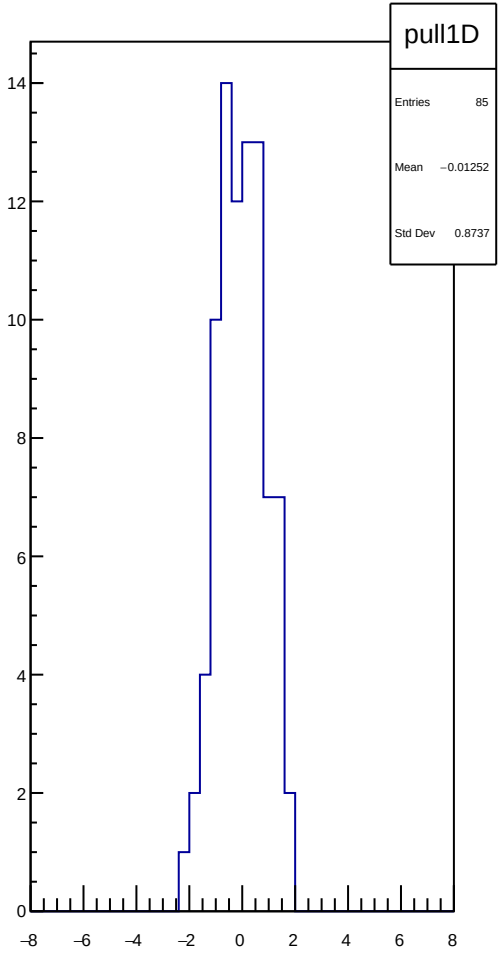

asym_at2_dd_correction_rms vs run
χ² / ndf 4123 / 84
p0 1092 ± 0.8656
1250
1200
1150
1100
1050
1000
950

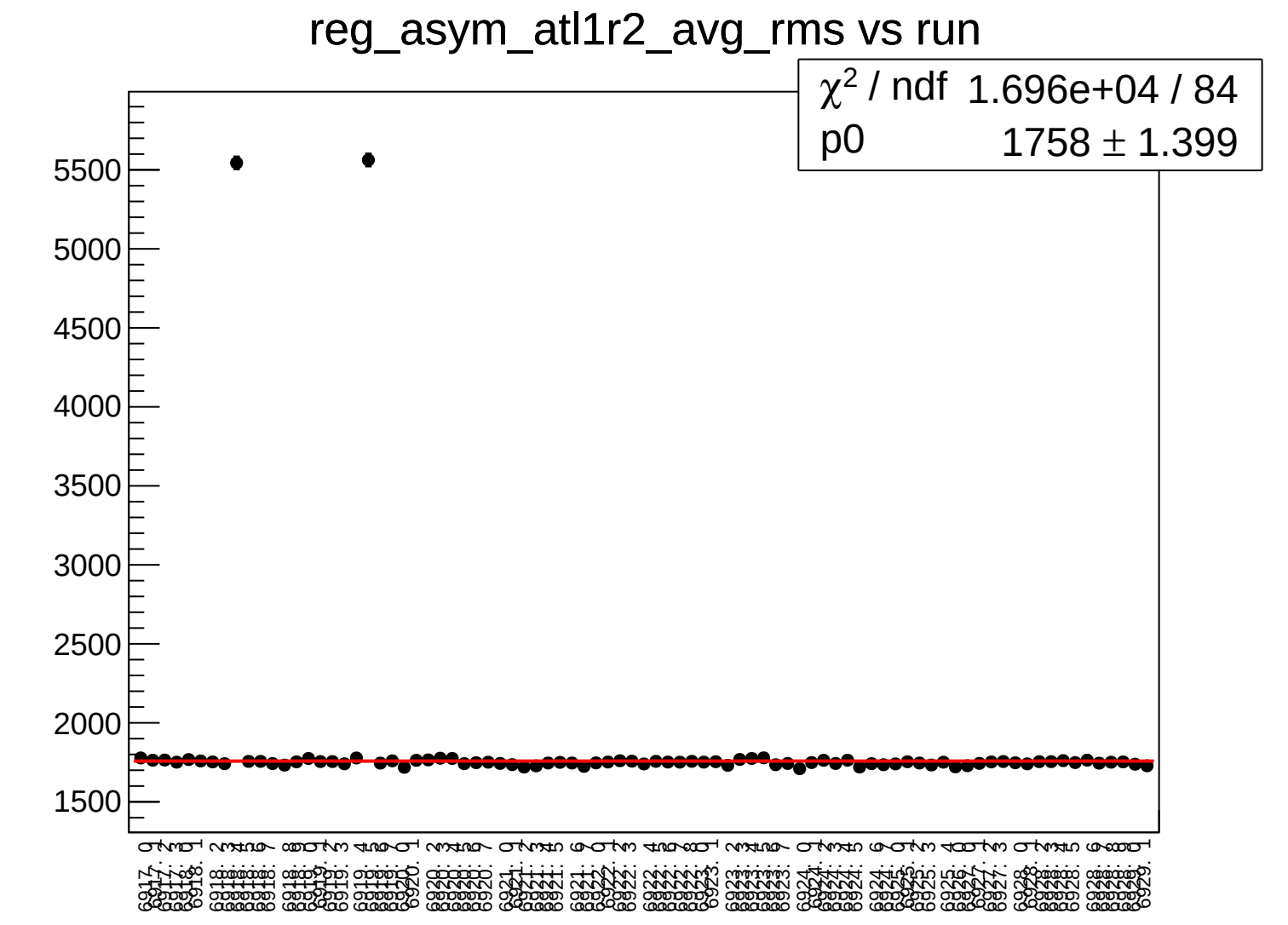

asym_at2_dd_mean vs run
×10^3
χ² / ndf 72.29 / 84
p0 −1678 ± 2389
pull
Entries 85
Mean 26.68
Std Dev 81.62

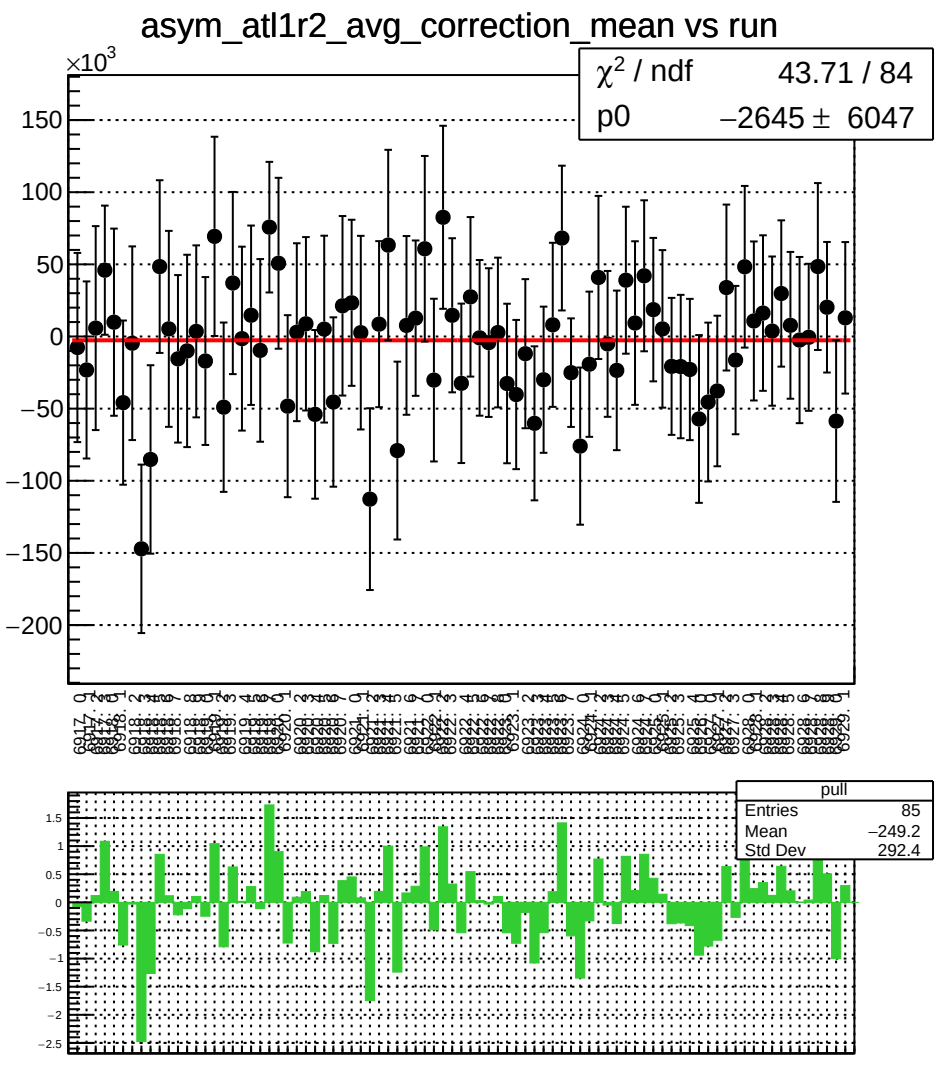

pull1D
Entries 85
Mean 0.01082
Std Dev 0.9221

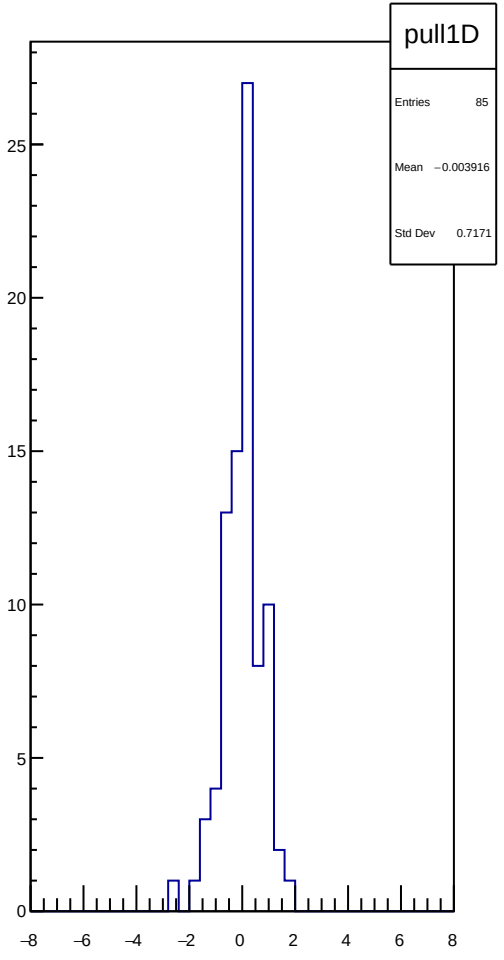

asym_at2_dd_rms vs run
χ^2 / ndf 8055 / 84
p0 2128 ± 1.689
5500
5000
4500
4000
3500
3000
2500
2000

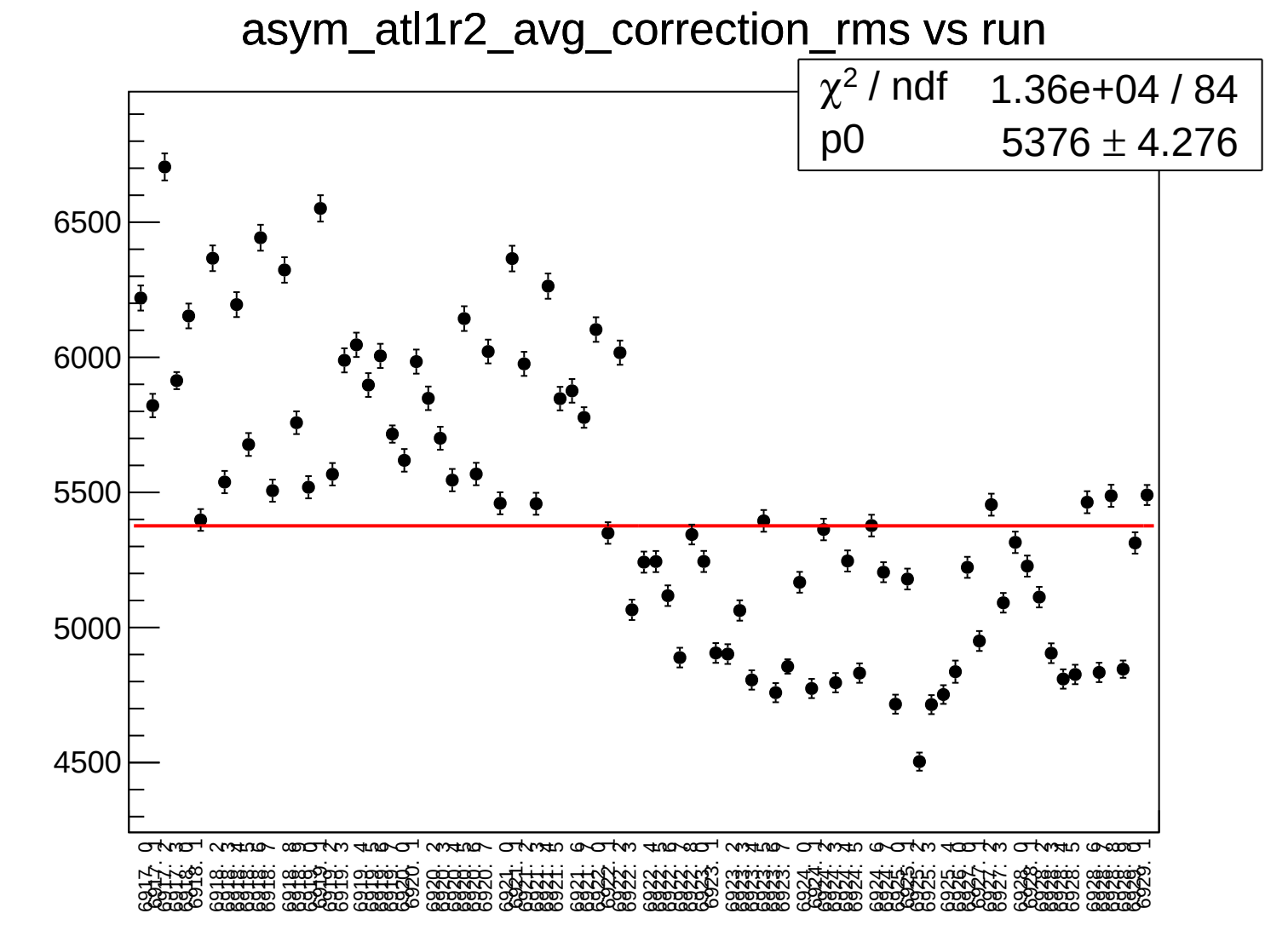

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 64.9 / 84
p0 3168 ± 1979
×10³
pull
Entries 85
Mean 5.64
Std Dev 60.1

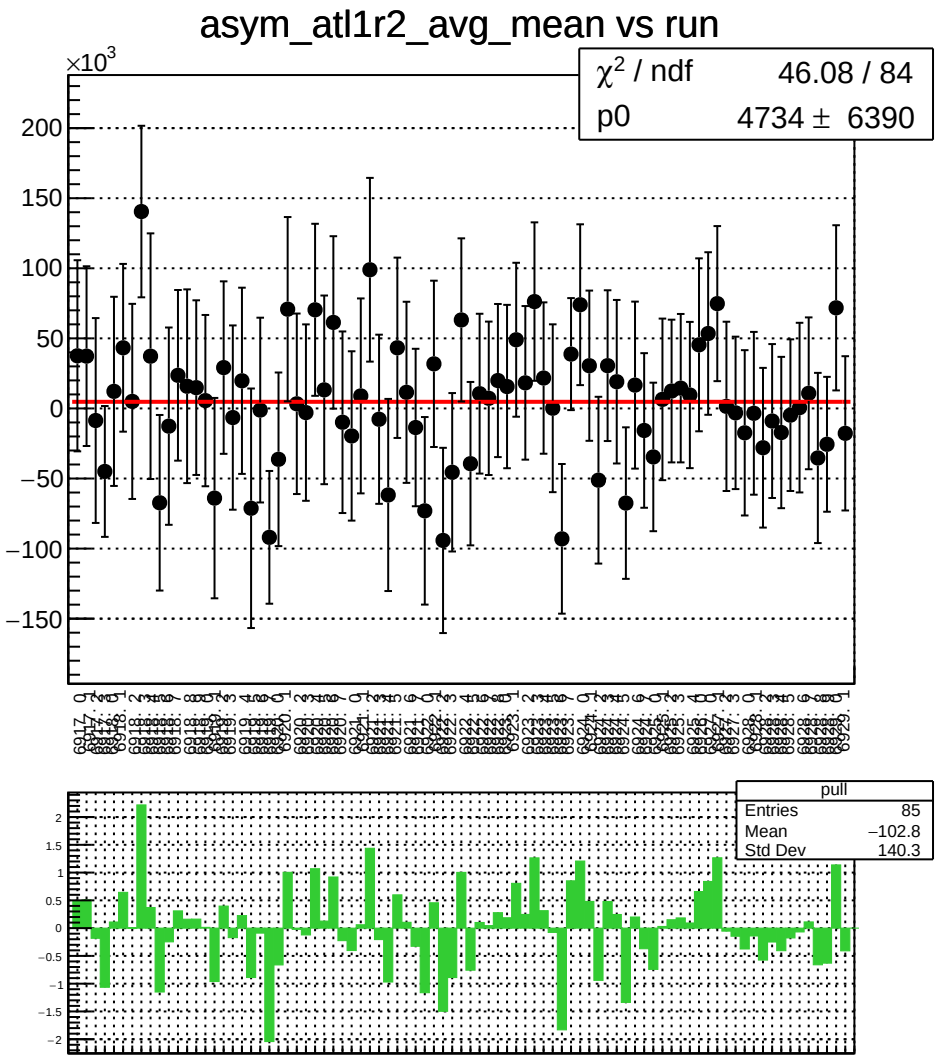

pull1D
Entries 85
Mean −0.01252
Std Dev 0.8737

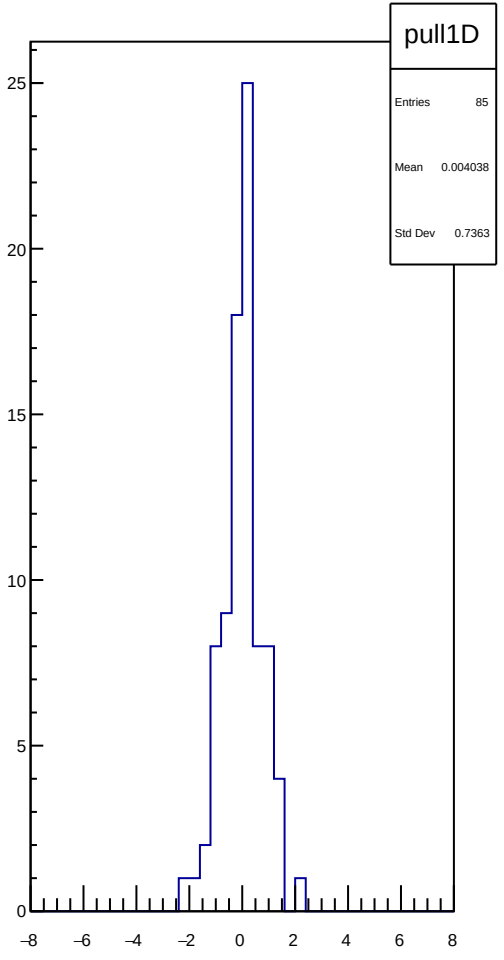

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 1.696e+04 / 84
p0 1758 ± 1.399
5500
5000
4500
4000
3500
3000
2500
2000
1500

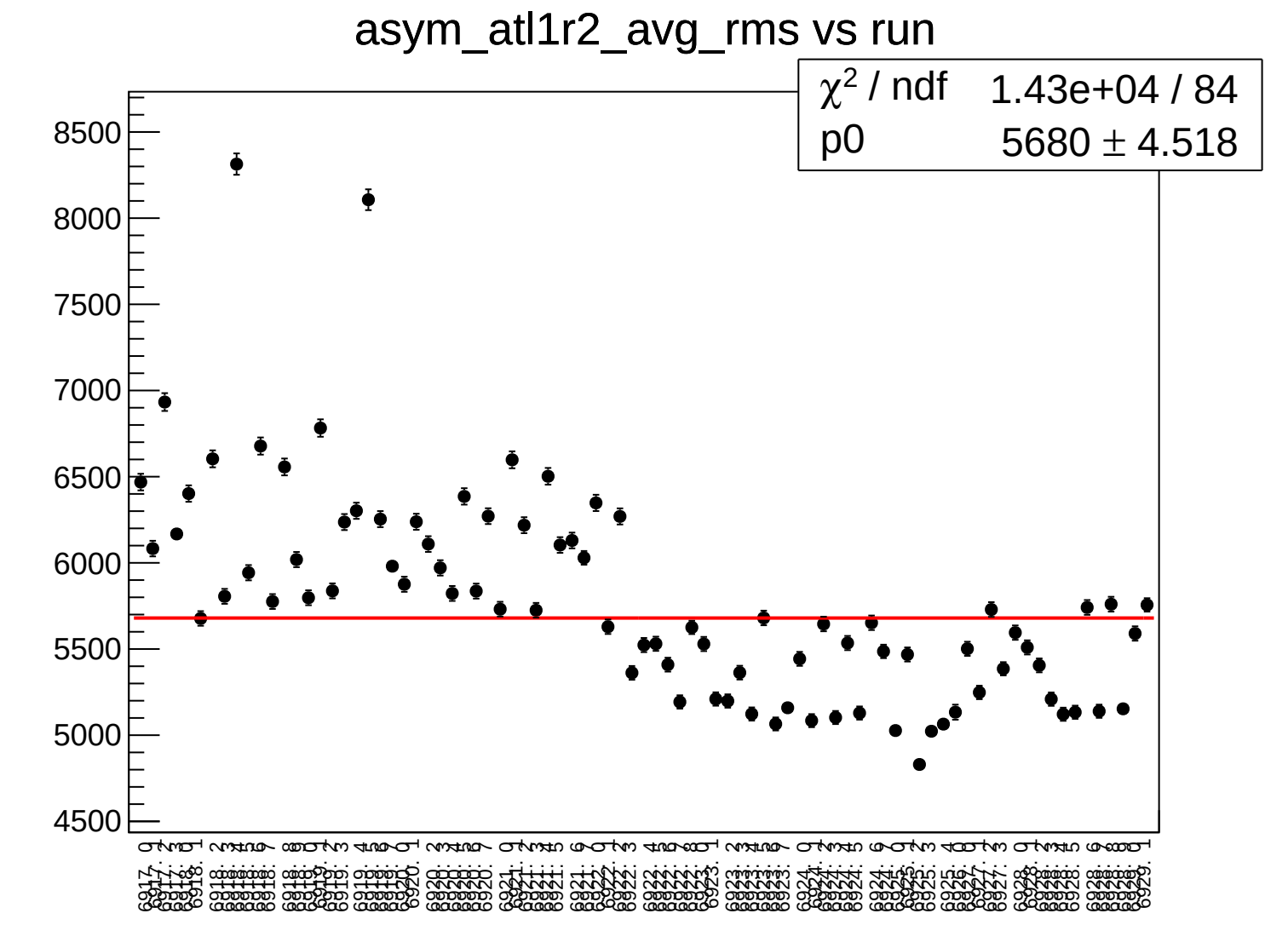

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 43.71 / 84
p0 −2645 ± 6047
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −249.2
Std Dev 292.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

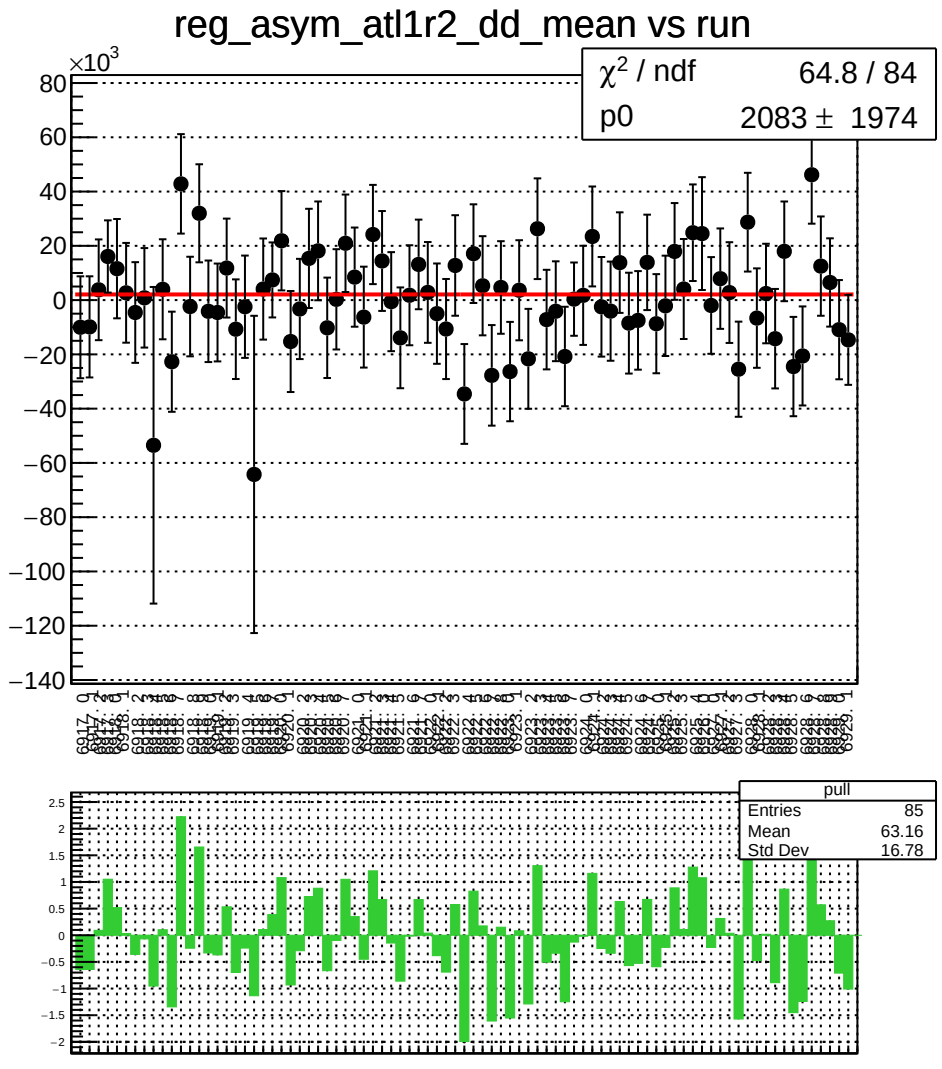

pull1D
Entries 85
Mean −0.003916
Std Dev 0.7171
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

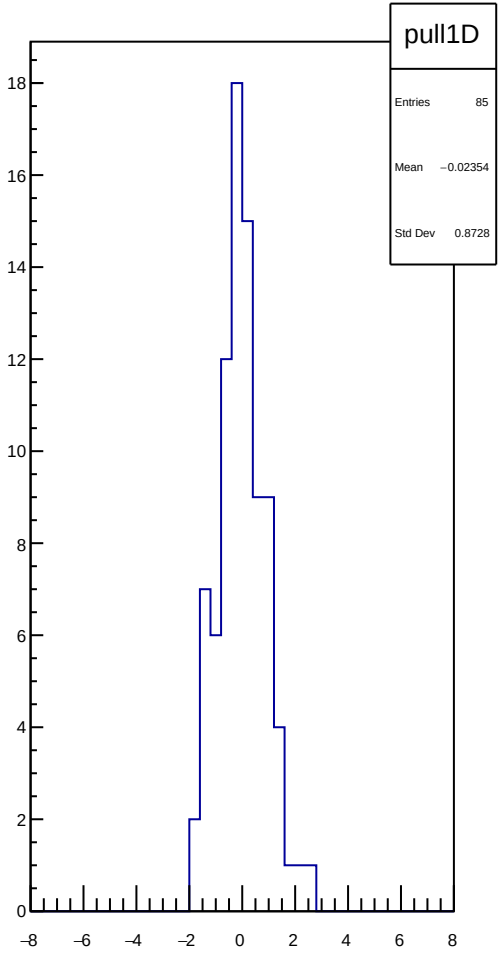

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.36e+04 / 84
p0 5376 ± 4.276
6500
6000
5500
5000
4500

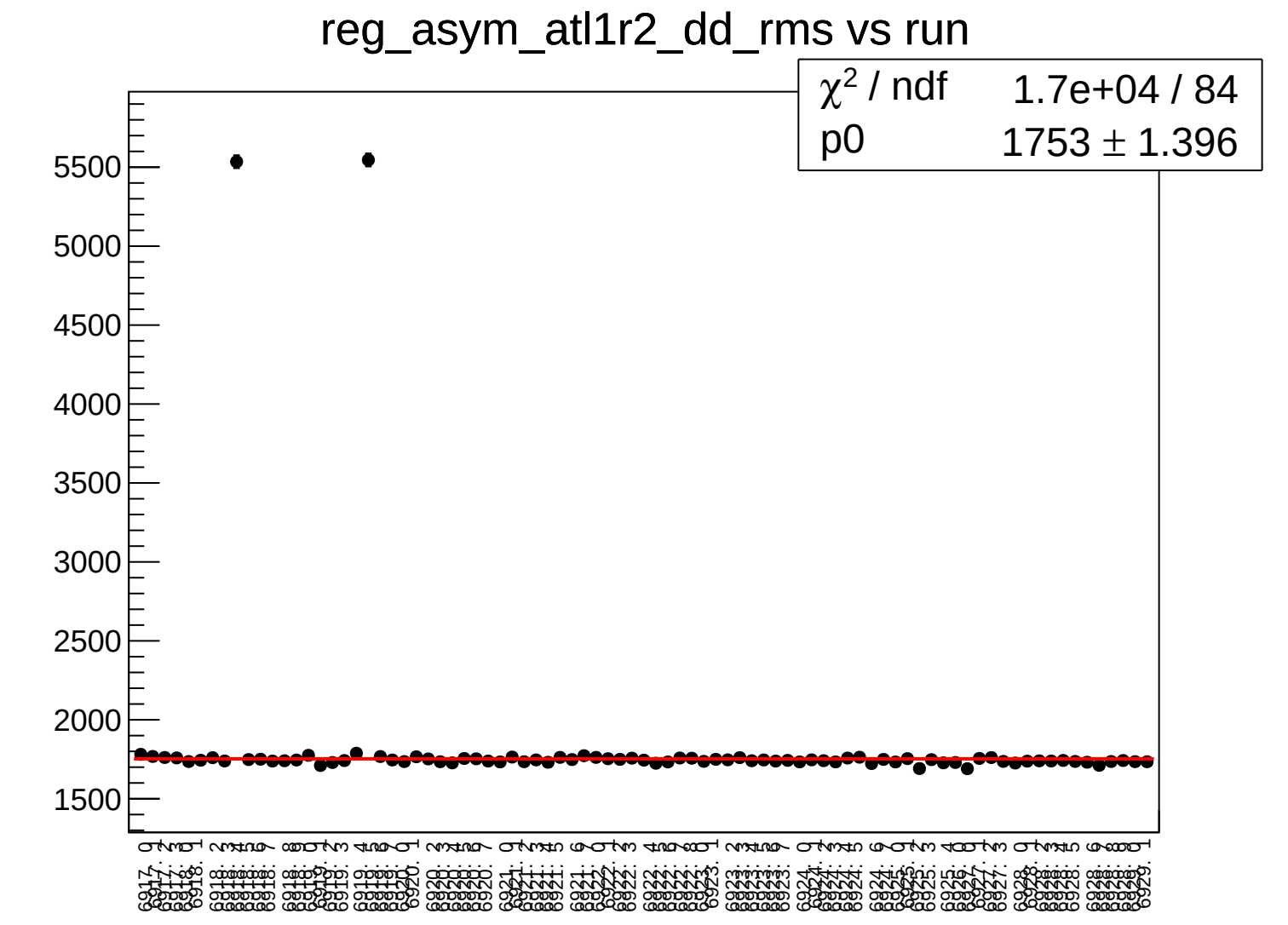

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 46.08 / 84
p0 4734 ± 6390
pull
Entries 85
Mean −102.8
Std Dev 140.3

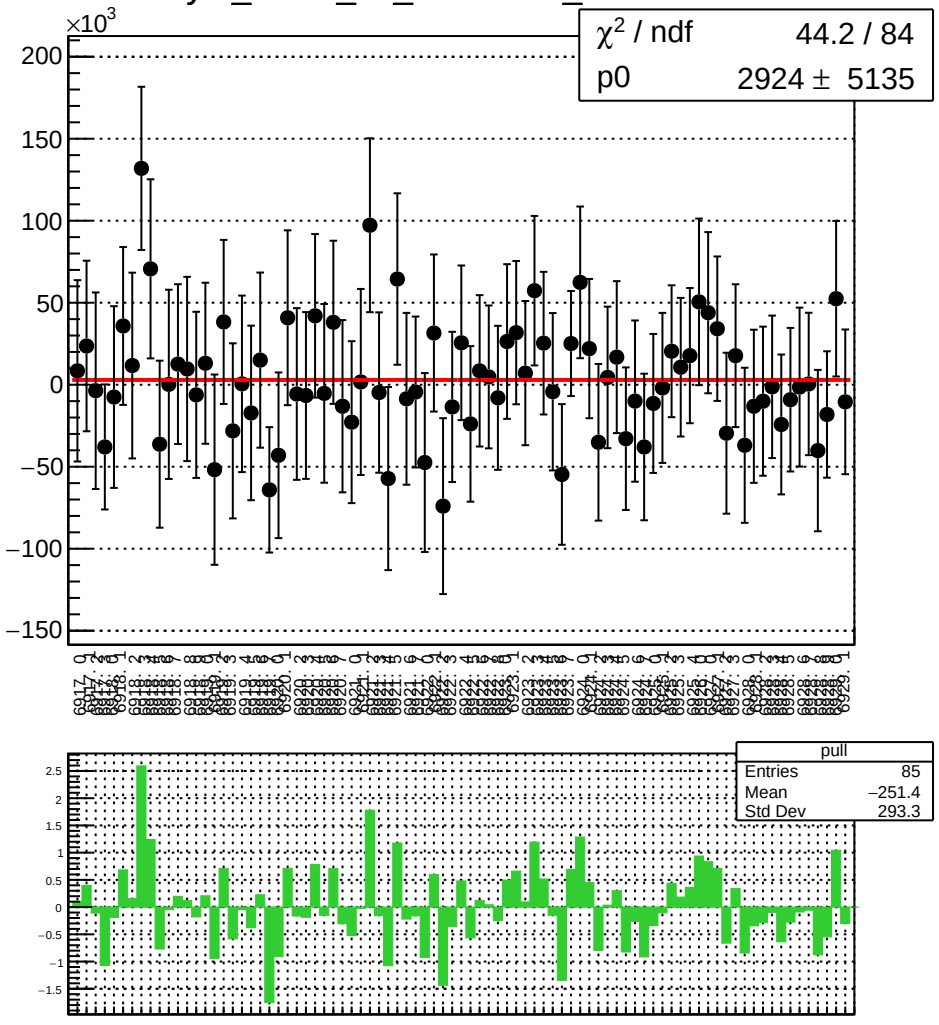

pull1D
Entries 85
Mean 0.004038
Std Dev 0.7363

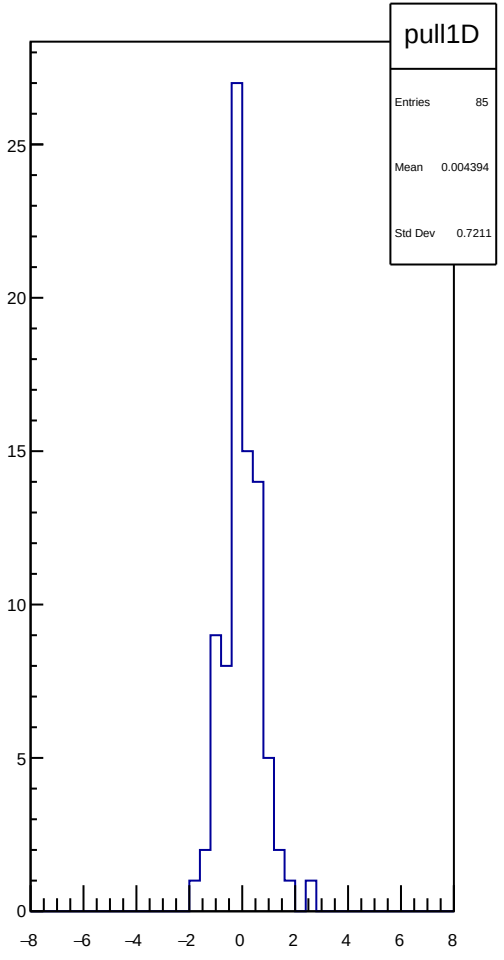

asym_atl1r2_avg_rms vs run
χ² / ndf 1.43e+04 / 84
p0 5680 ± 4.518
8500
8000
7500
7000
6500
6000
5500
5000
4500

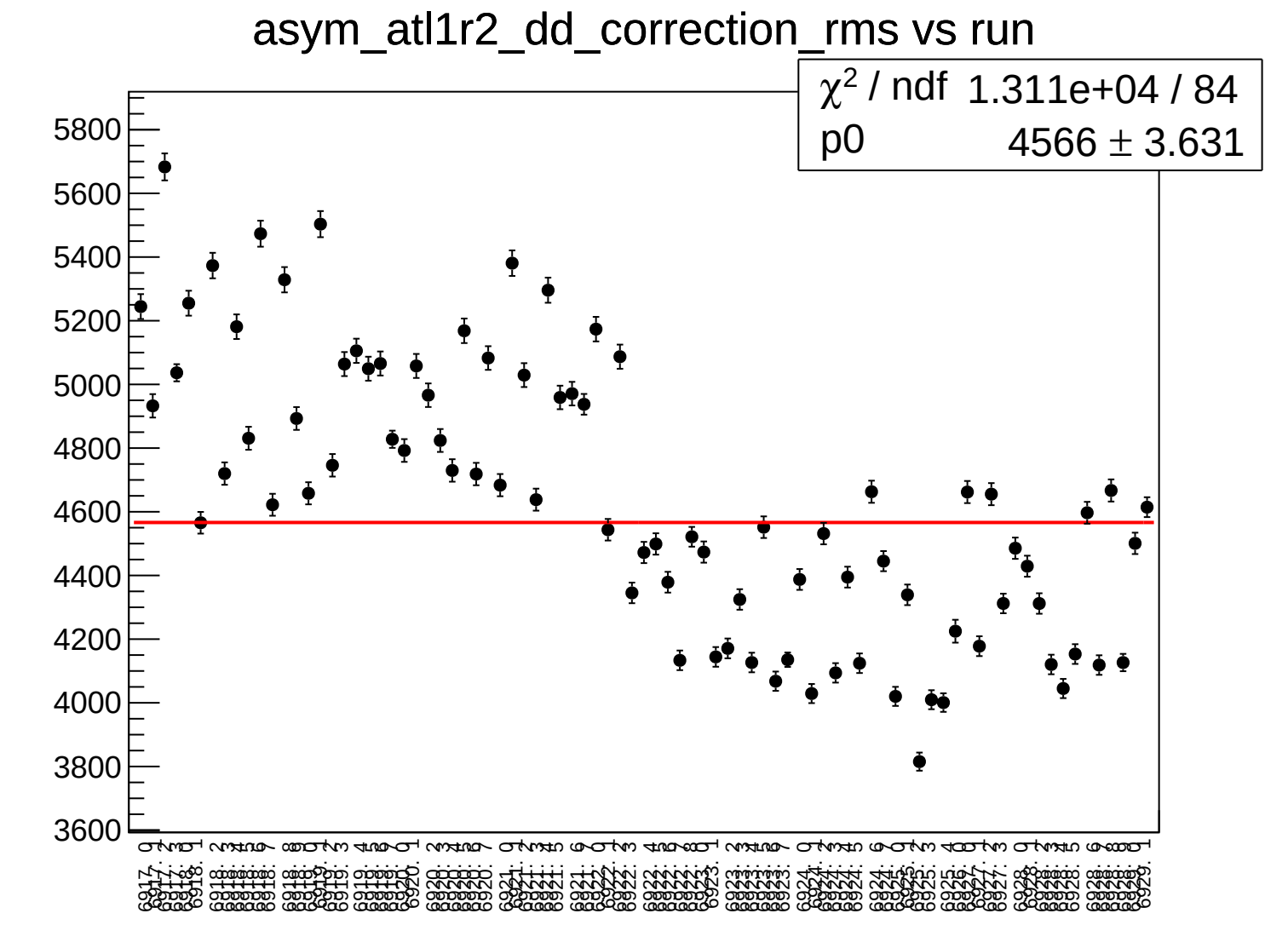

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 64.8 / 84
p0 2083 ± 1974
×10³
pull
Entries 85
Mean 63.16
Std Dev 16.78

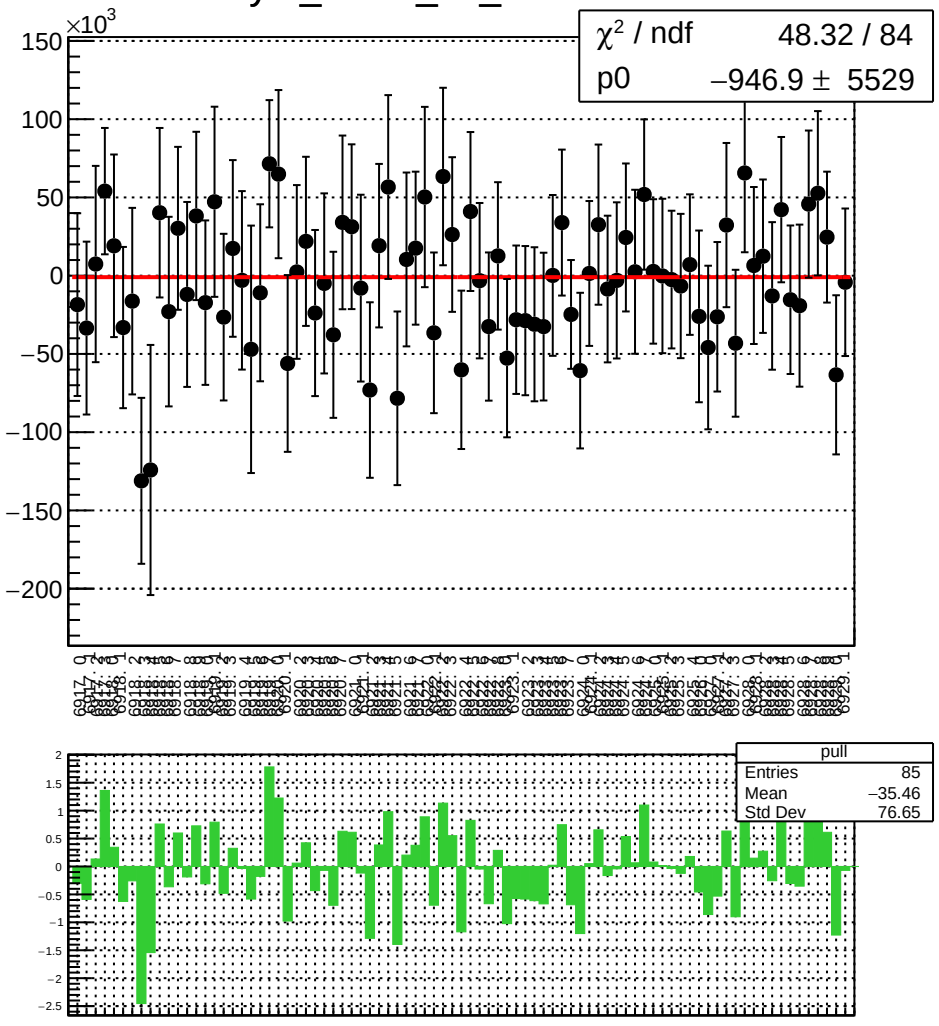

pull1D
Entries 85
Mean −0.02354
Std Dev 0.8728

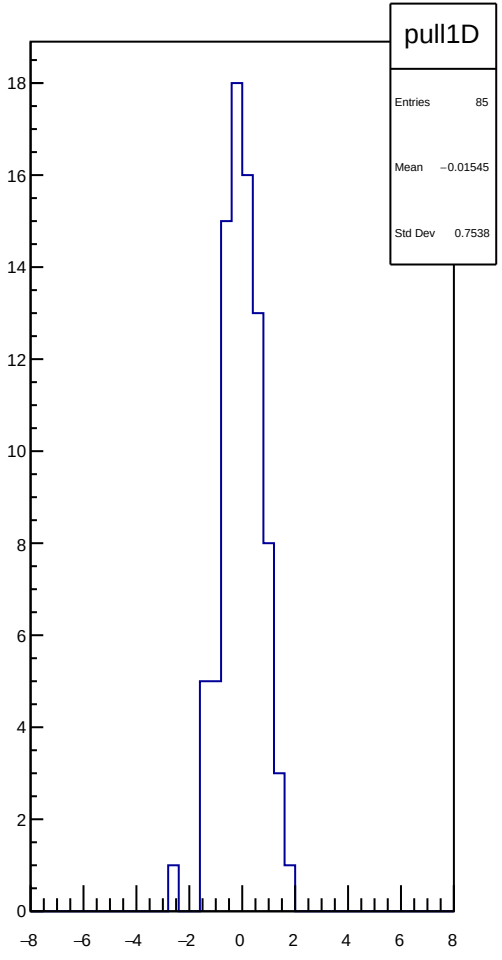

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.7e+04 / 84
p0 1753 ± 1.396
5500
5000
4500
4000
3500
3000
2500
2000
1500

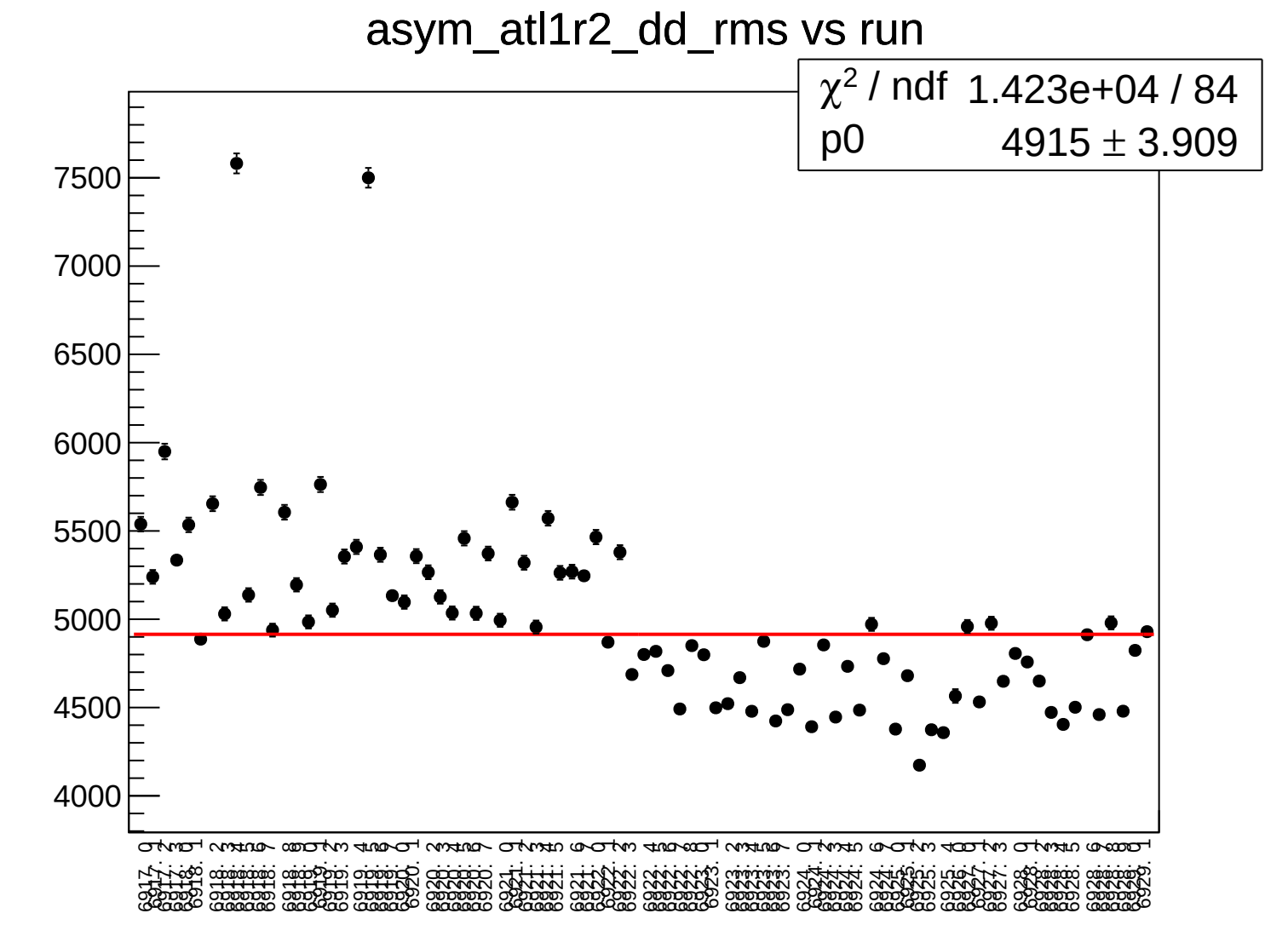

asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 44.2 / 84
p0 2924 ± 5135
pull
Entries 85
Mean −251.4
Std Dev 293.3

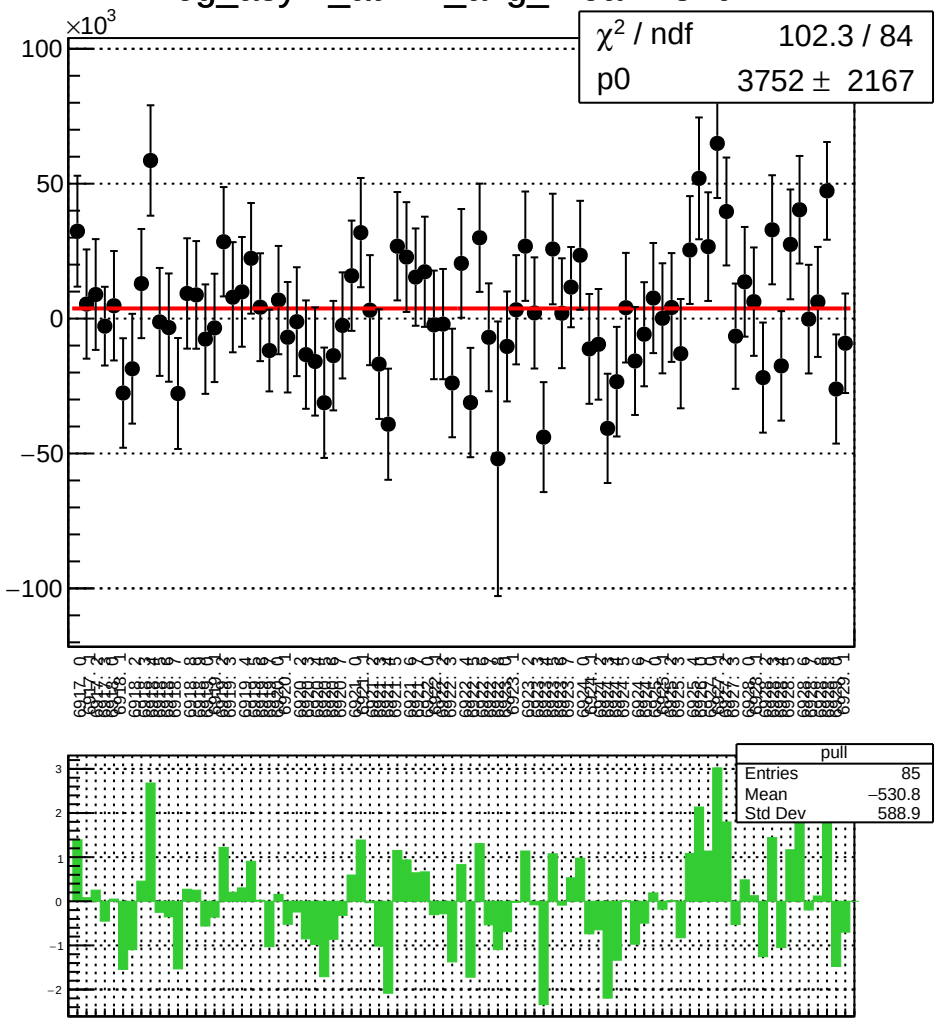

pull1D
Entries 85
Mean 0.004394
Std Dev 0.7211

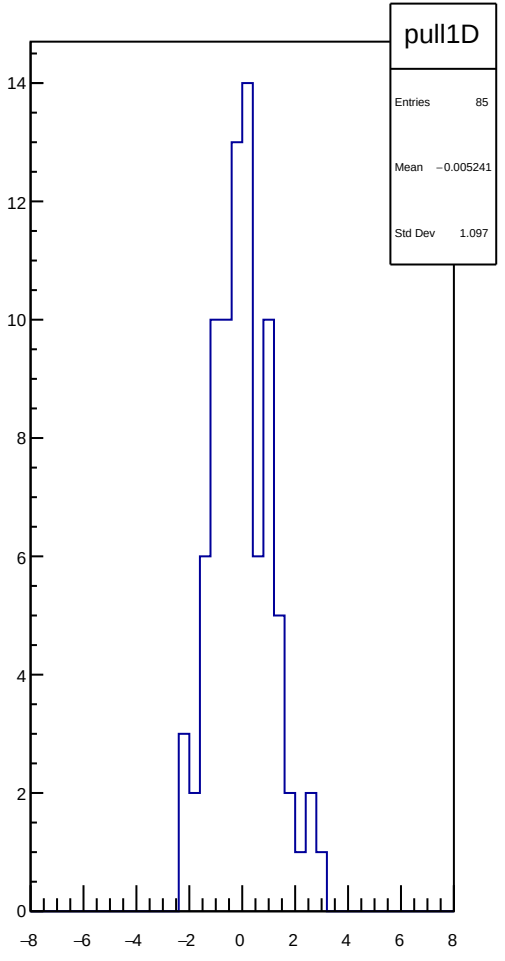

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.311e+04 / 84
p0 4566 ± 3.631
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

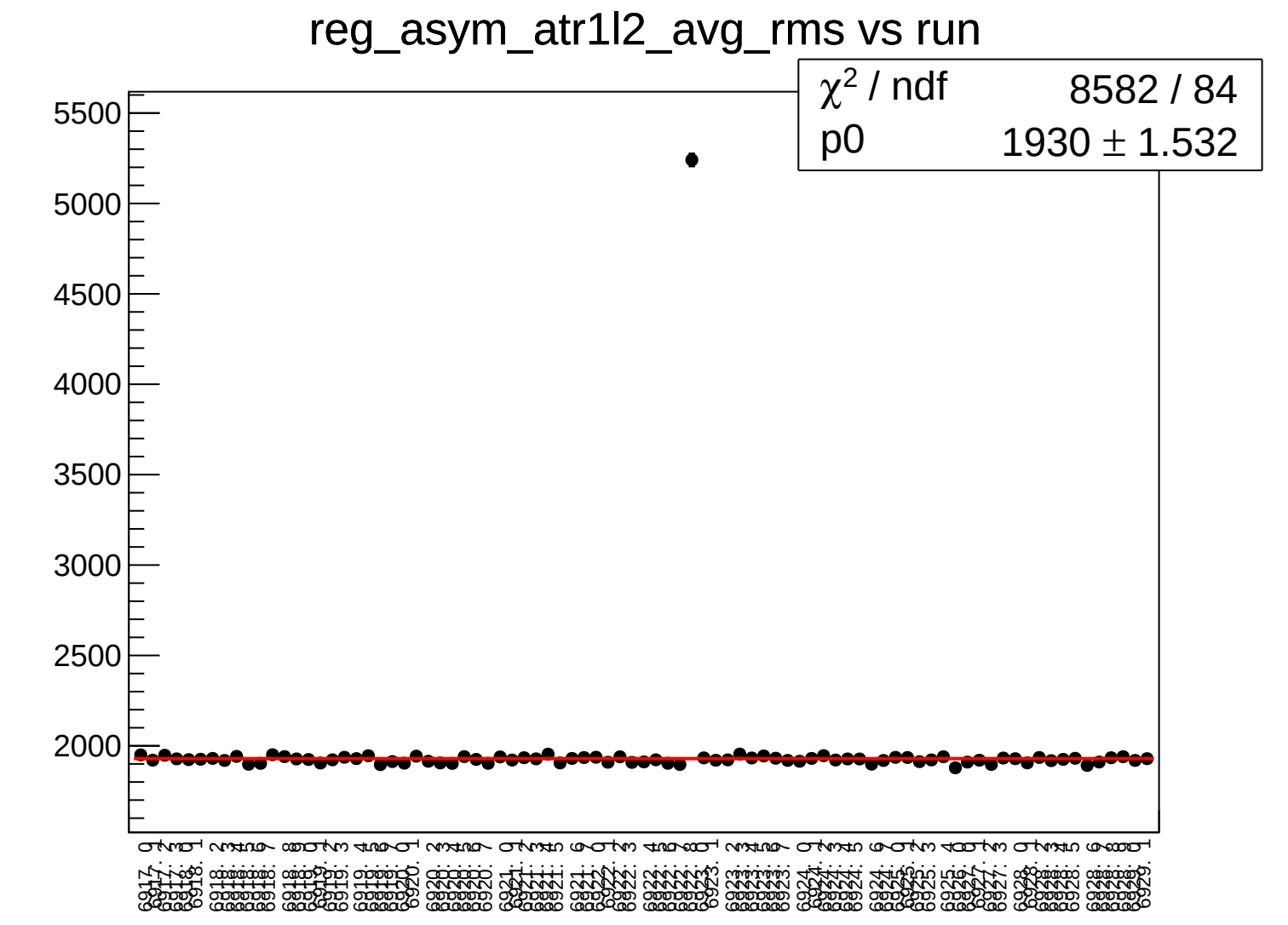

asym_atl1r2_dd_mean vs run
χ² / ndf 48.32 / 84
p0 −946.9 ± 5529
×10³
pull
Entries 85
Mean −35.46
Std Dev 76.65

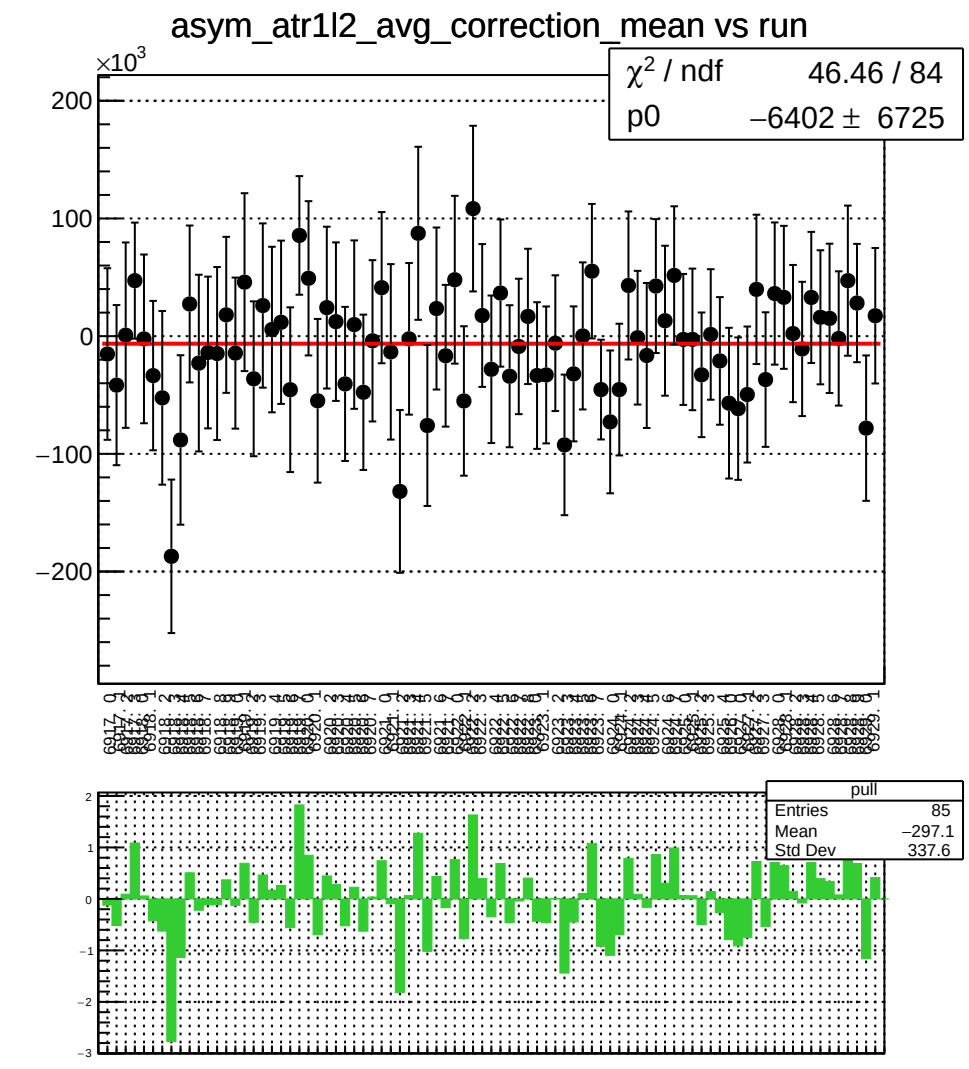

pull1D
Entries 85
Mean −0.01545
Std Dev 0.7538

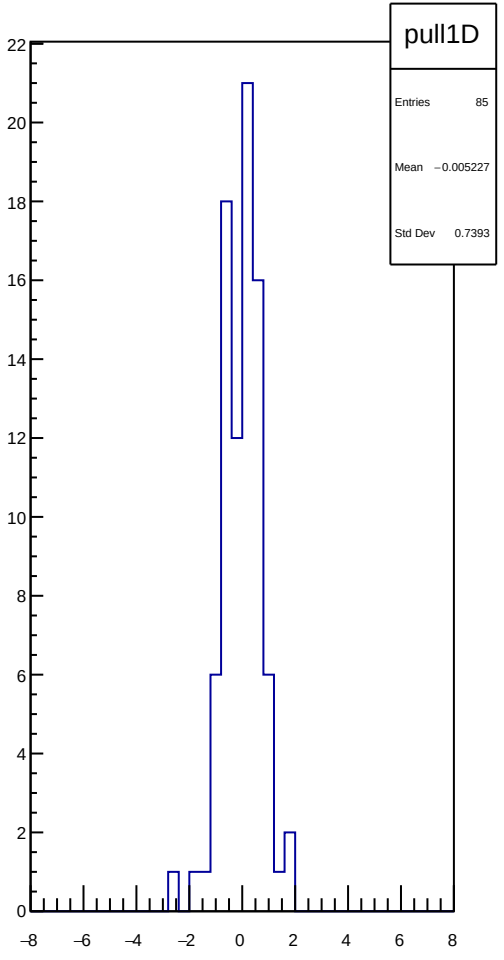

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.423e+04 / 84
p0 4915 ± 3.909
7500
7000
6500
6000
5500
5000
4500
4000

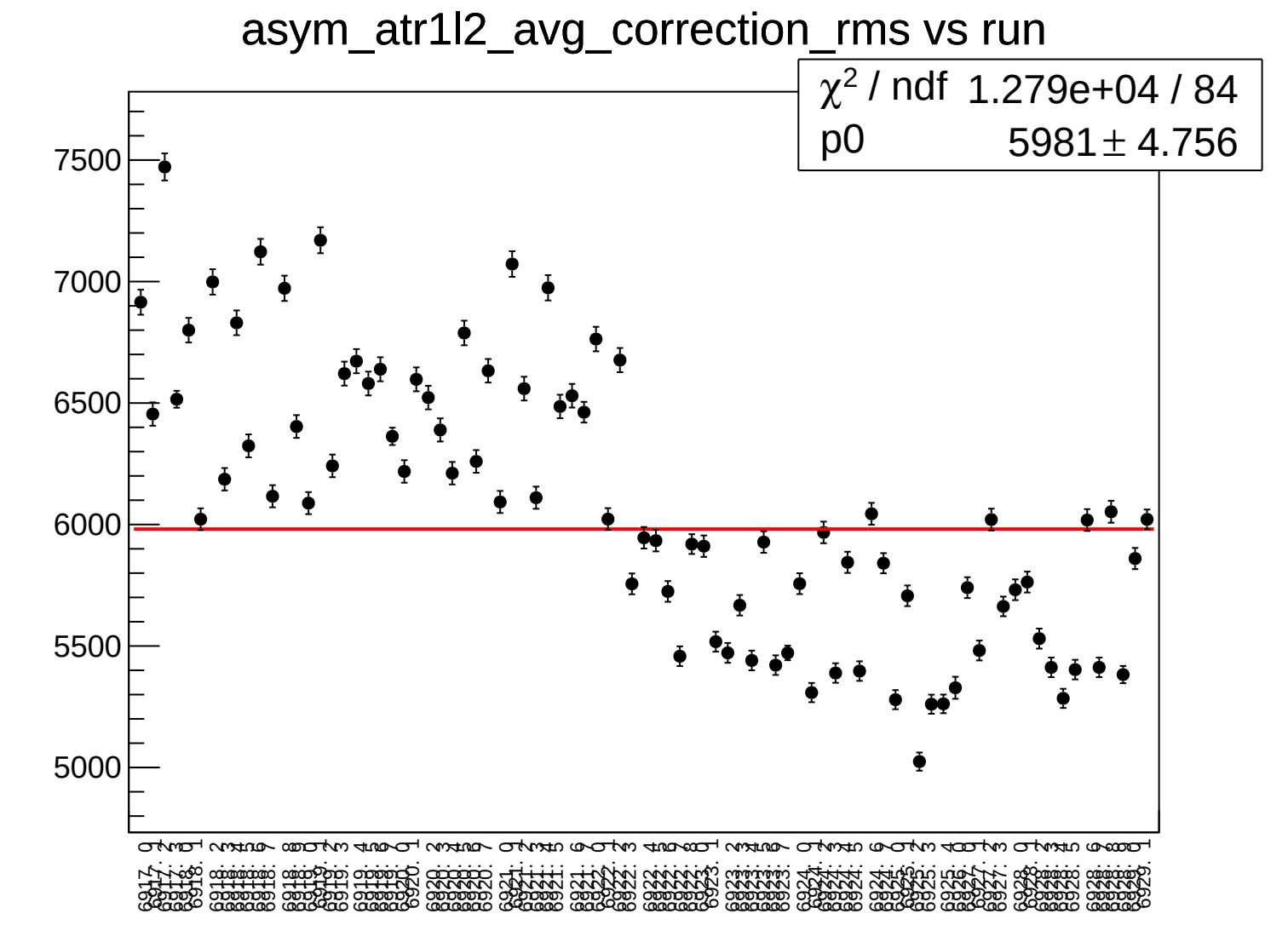

reg_asym_atr1l2_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 102.3 / 84
p0 3752 ± 2167
pull
Entries 85
Mean −530.8
Std Dev 588.9
3
2
1
0
−1
−2

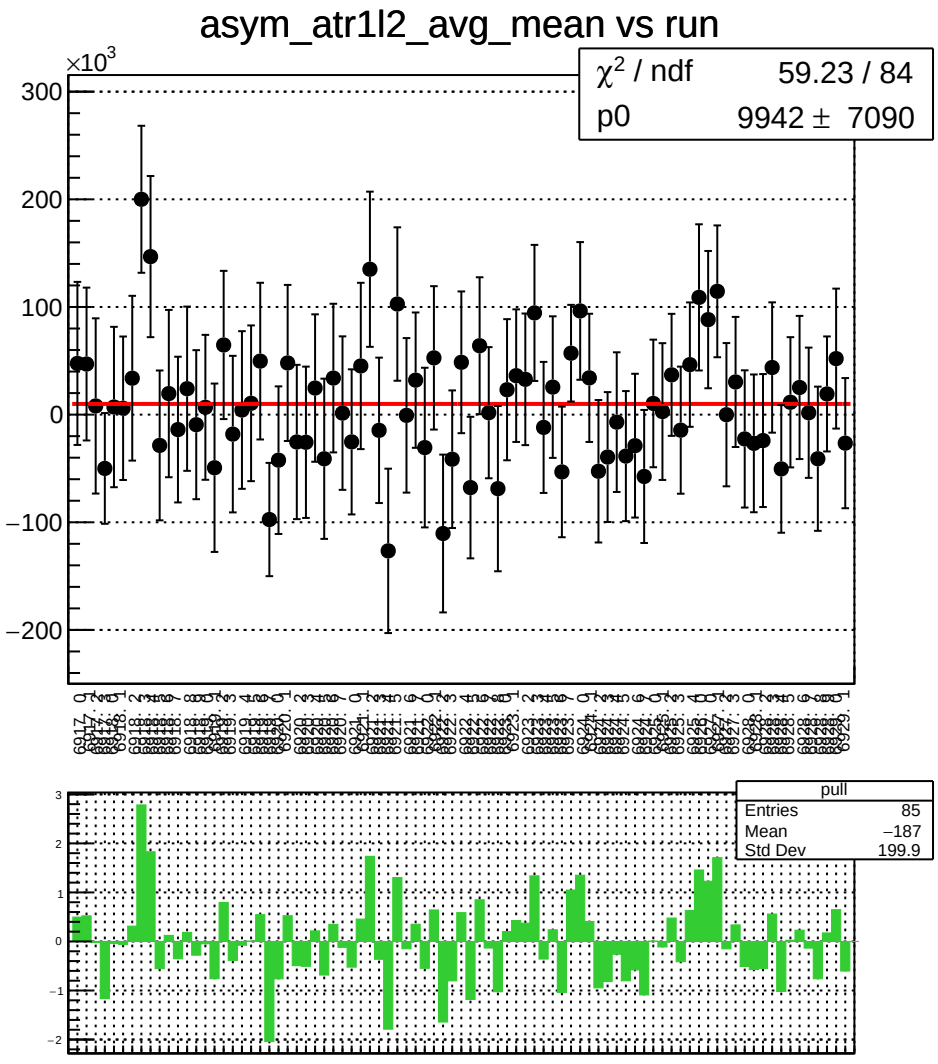

pull1D
Entries 85
Mean −0.005241
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

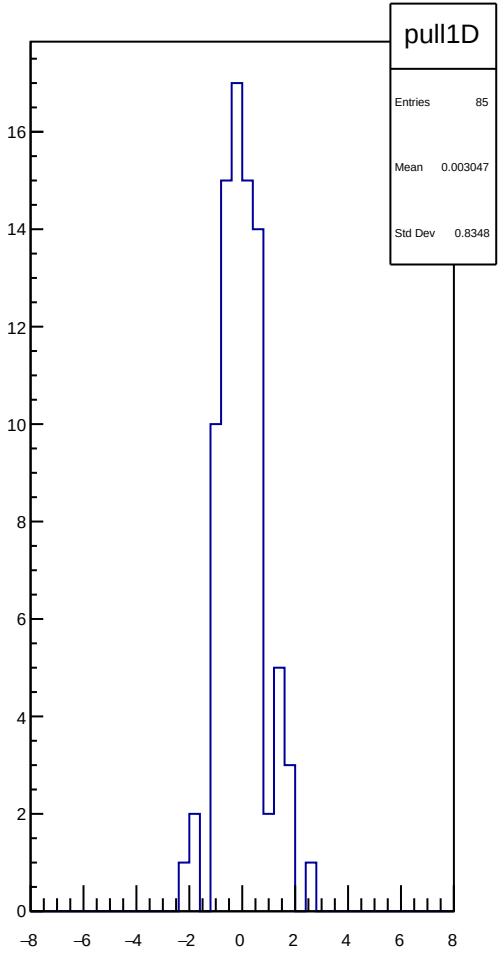

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 8582 / 84
p0 1930 ± 1.532
5500
5000
4500
4000
3500
3000
2500
2000

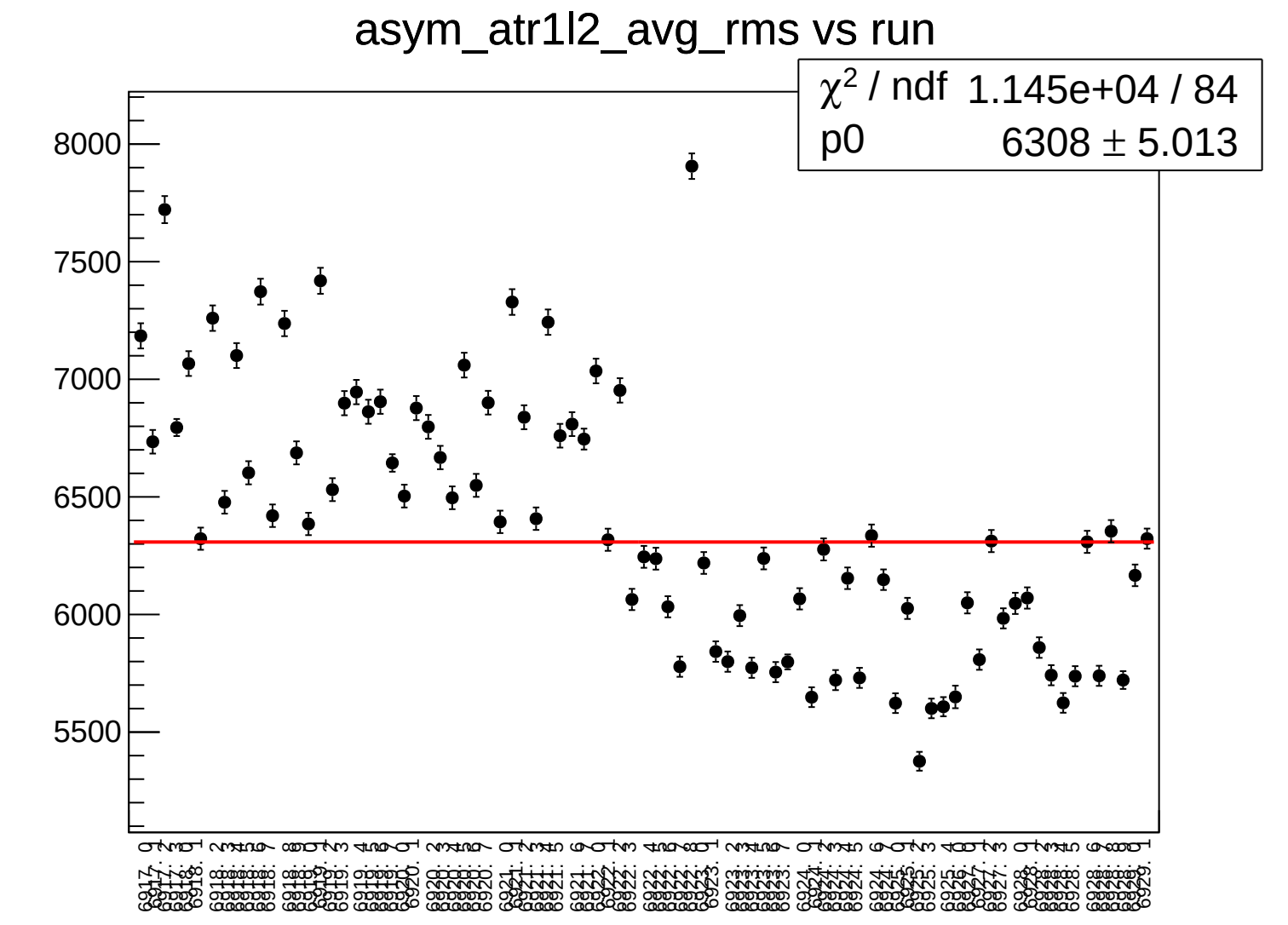

asym_atr1l2_avg_correction_mean vs run
×10^3
χ^2 / ndf 46.46 / 84
p0 −6402 ± 6725
200
100
0
−100
−200
pull
Entries 85
Mean −297.1
Std Dev 337.6
2
1
0
−1
−2
−3

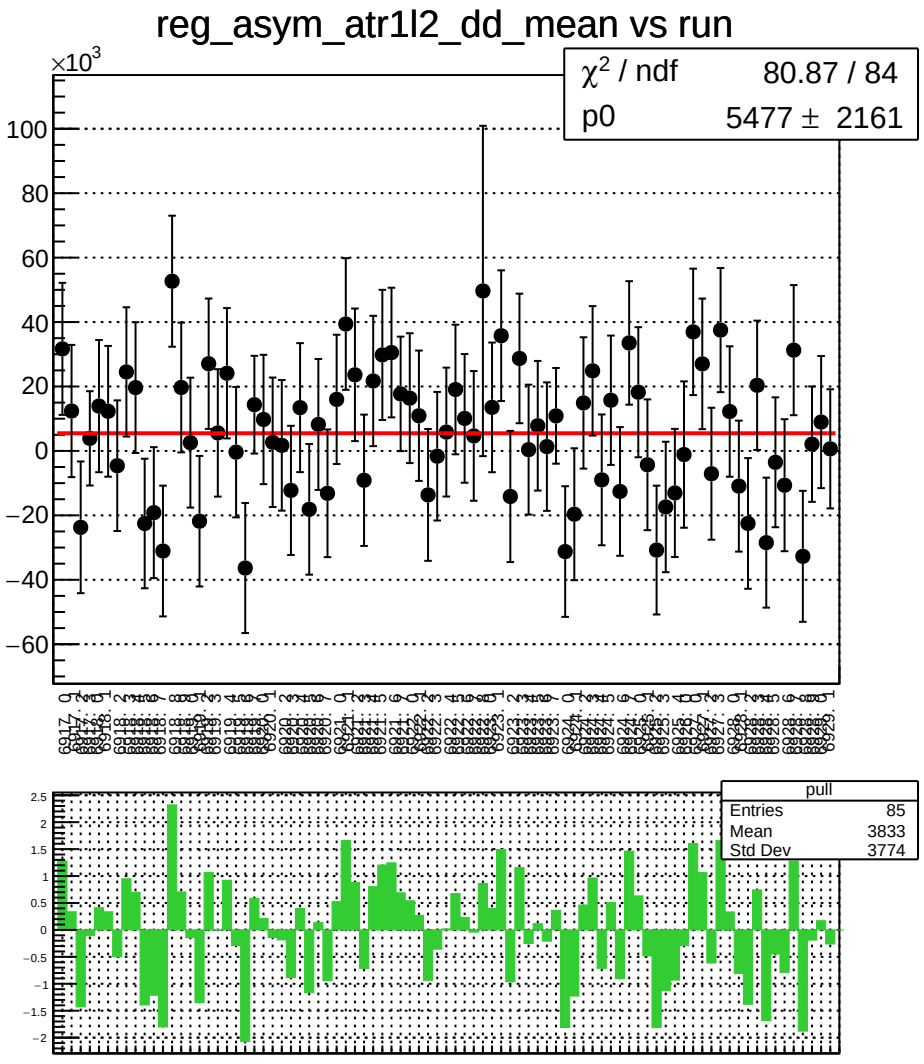

pull1D
Entries 85
Mean −0.005227
Std Dev 0.7393
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

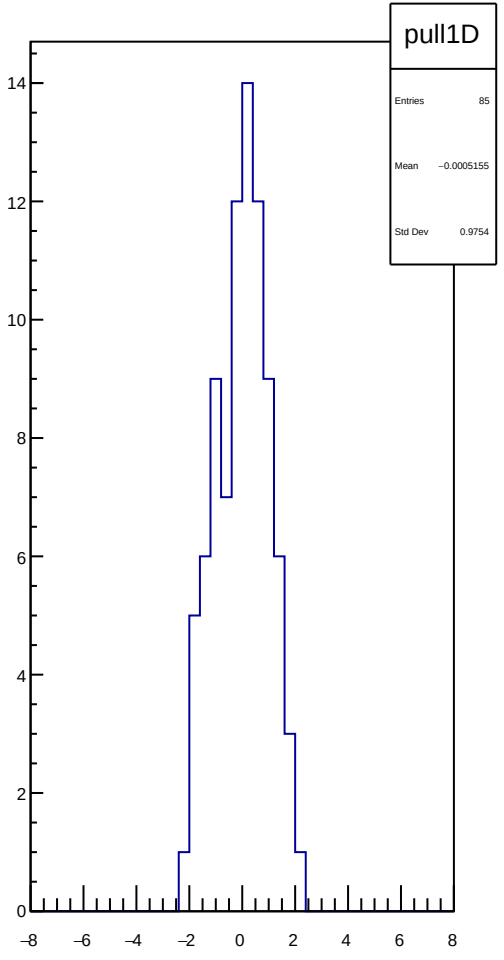

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.279e+04 / 84
p0 5981 ± 4.756
7500
7000
6500
6000
5500
5000

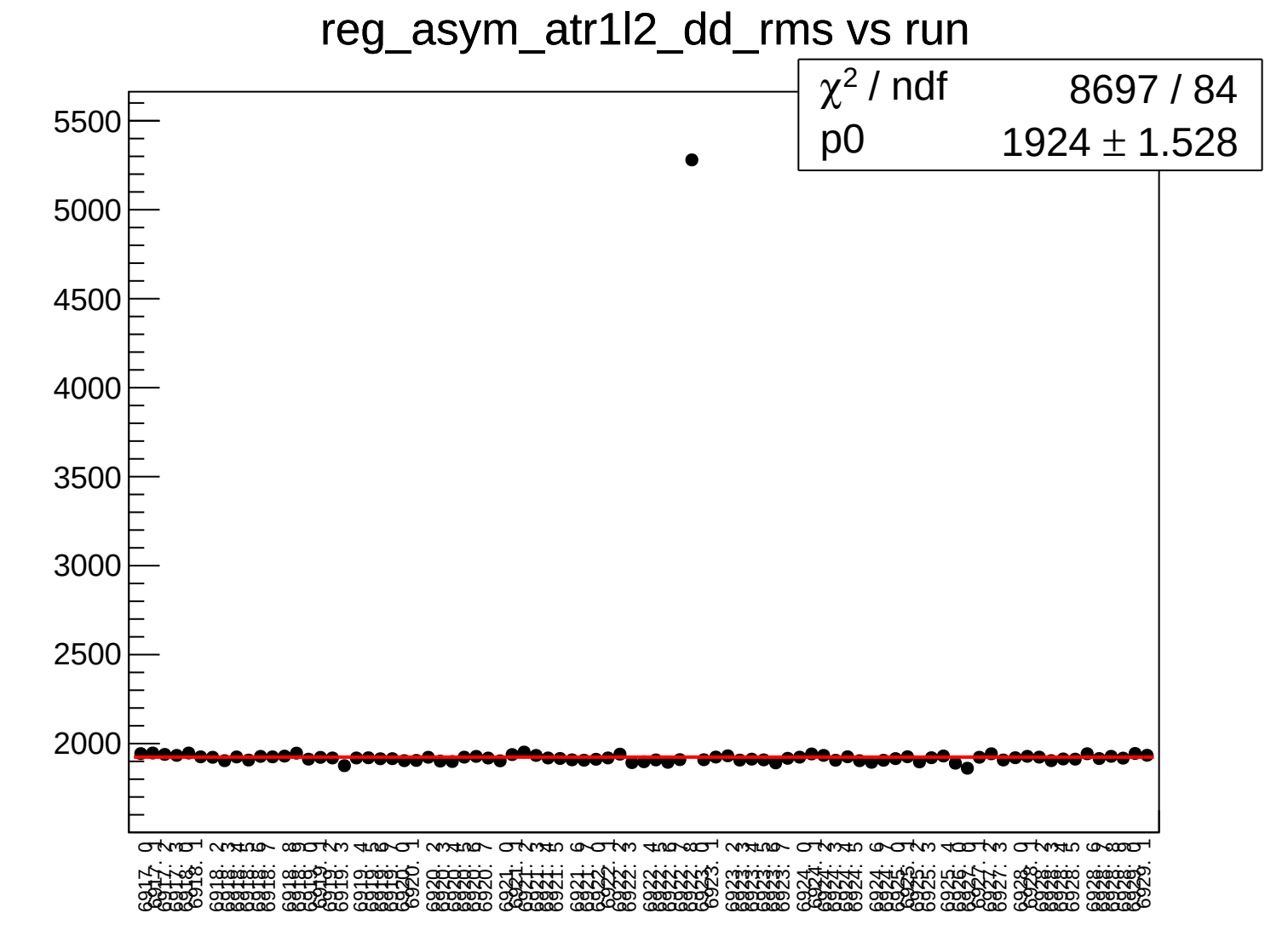

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 59.23 / 84
p0 9942 ± 7090
pull
Entries 85
Mean −187
Std Dev 199.9

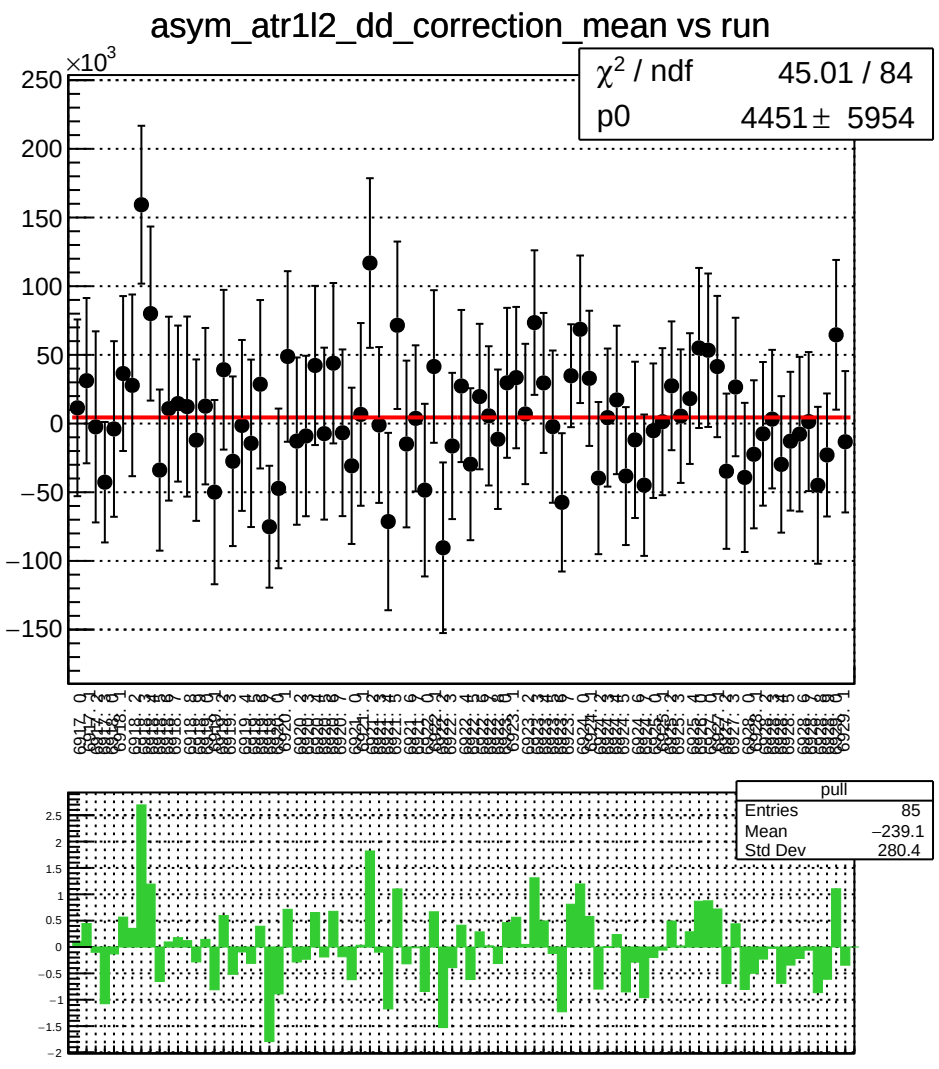

pull1D
Entries 85
Mean 0.003047
Std Dev 0.8348

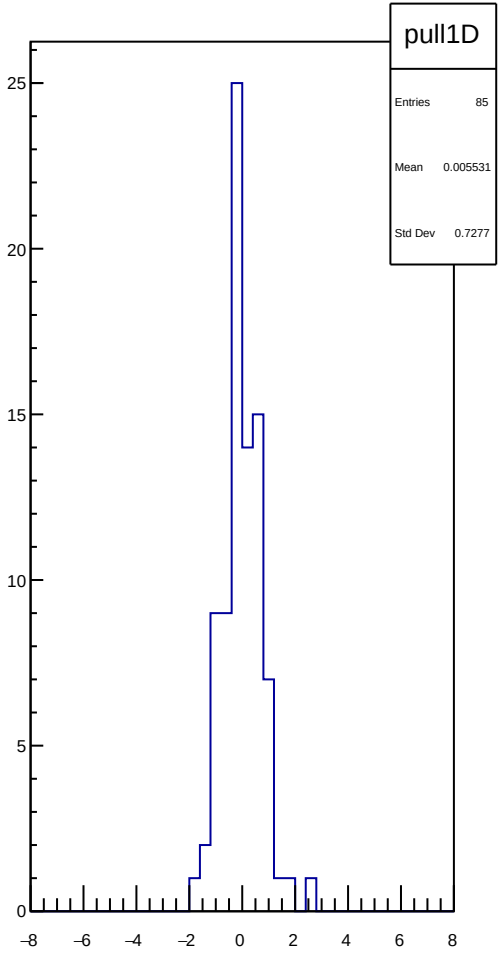

asym_atr1l2_avg_rms vs run
χ² / ndf 1.145e+04 / 84
p0 6308 ± 5.013
8000
7500
7000
6500
6000
5500

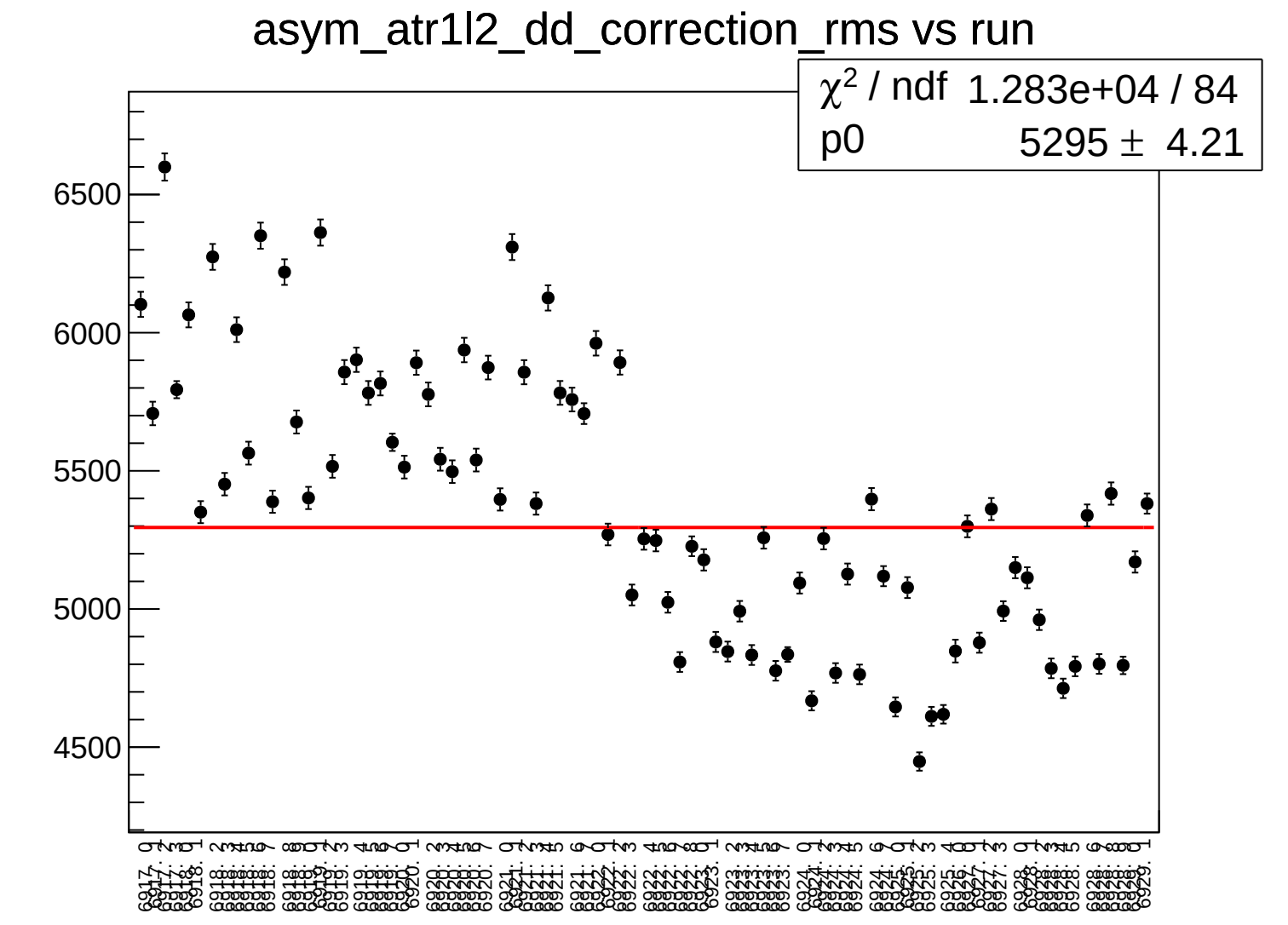

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 80.87 / 84
p0 5477 ± 2161
pull
Entries 85
Mean 3833
Std Dev 3774

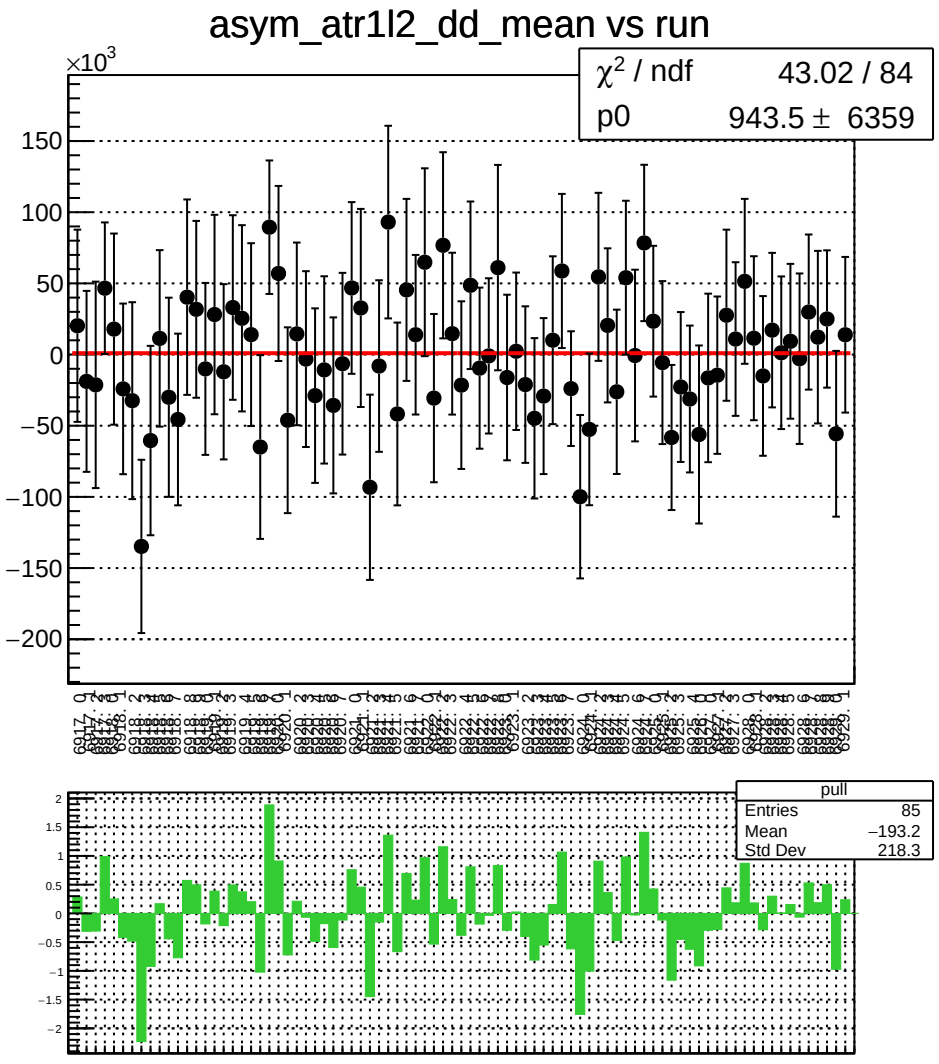

pull1D
Entries 85
Mean −0.0005155
Std Dev 0.9754

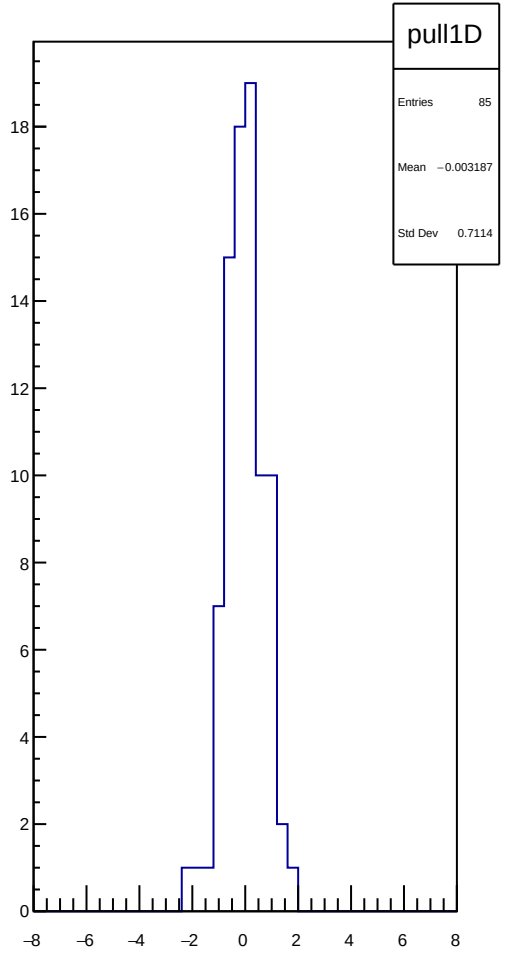

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 8697 / 84
p0 1924 ± 1.528
5500
5000
4500
4000
3500
3000
2500
2000

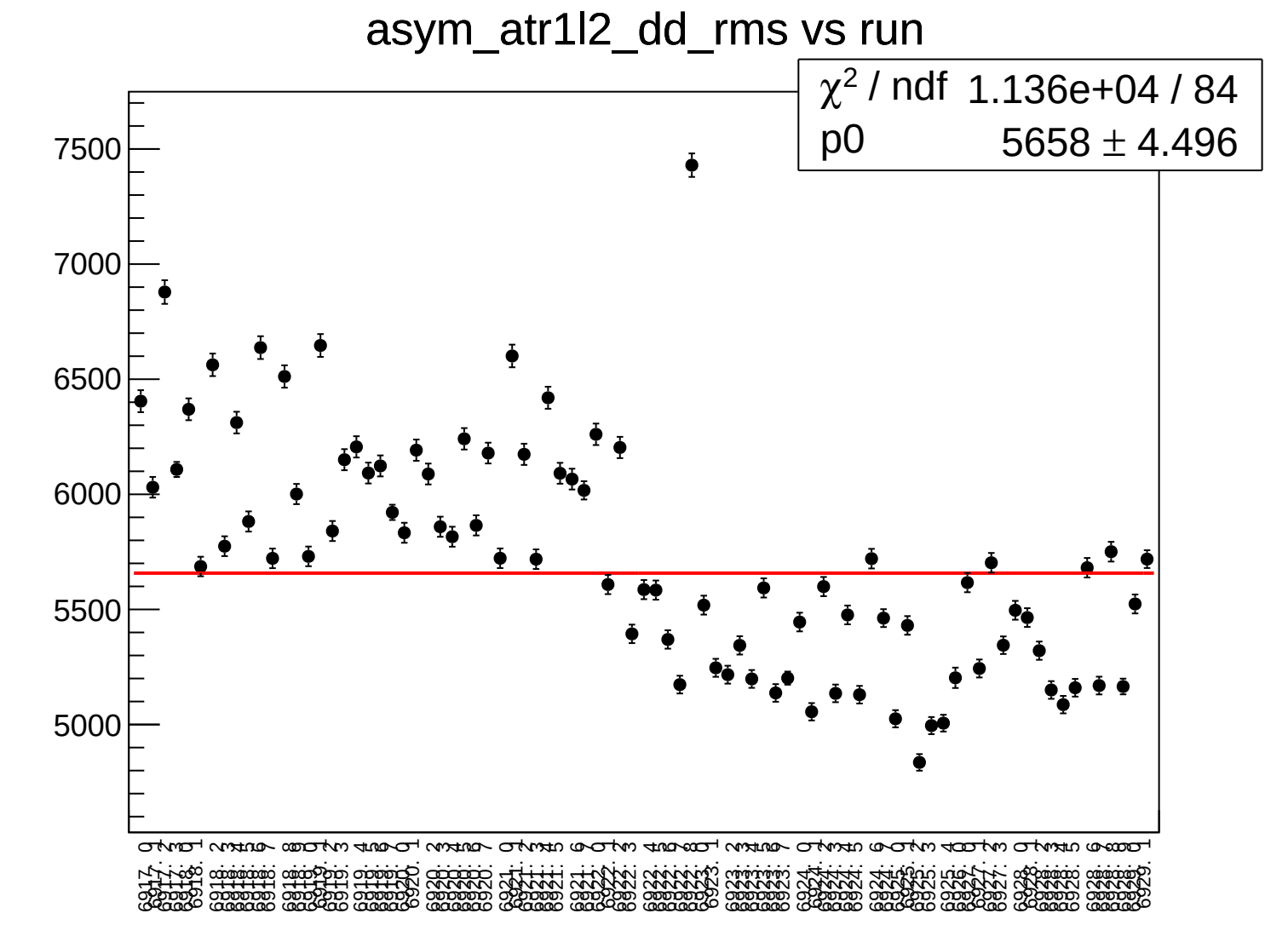

asym_atr1l2_dd_correction_mean vs run
χ^2 / ndf 45.01 / 84
p0 4451 ± 5954
×10^3
pull
Entries 85
Mean −239.1
Std Dev 280.4

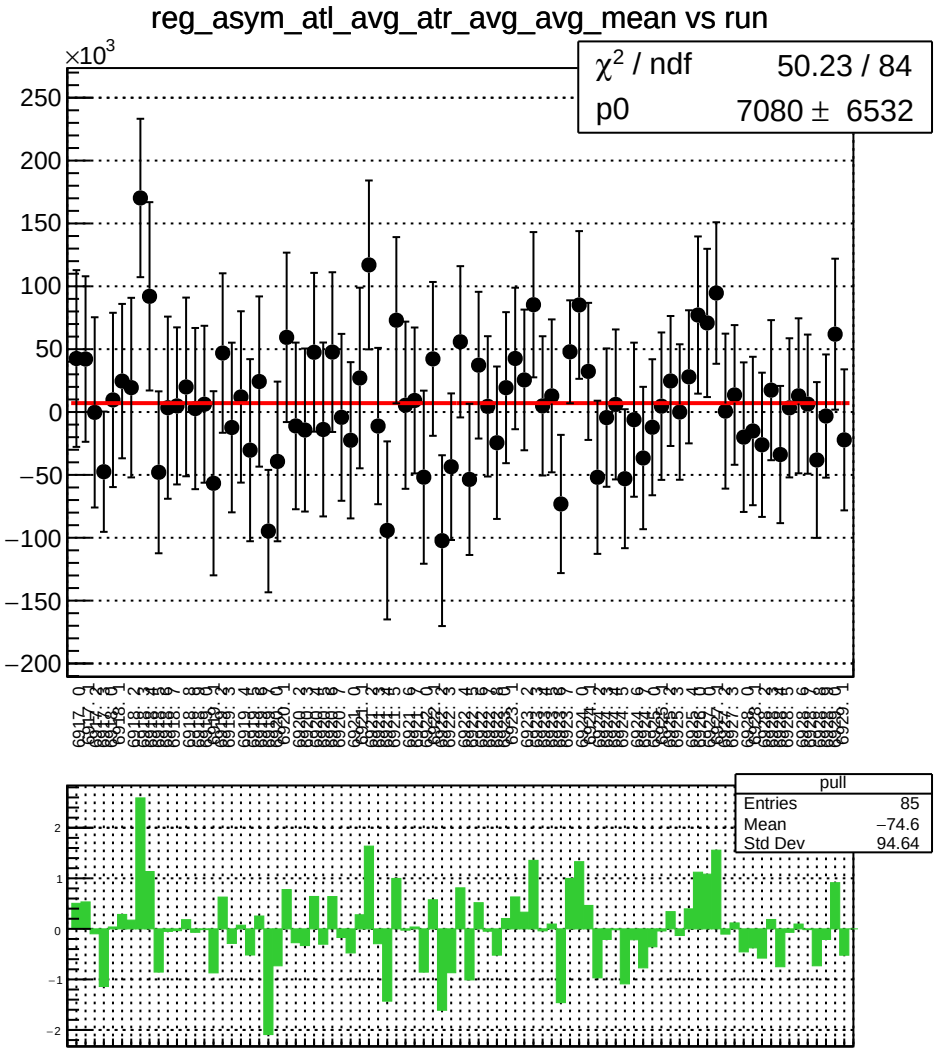

pull1D
Entries 85
Mean 0.005531
Std Dev 0.7277

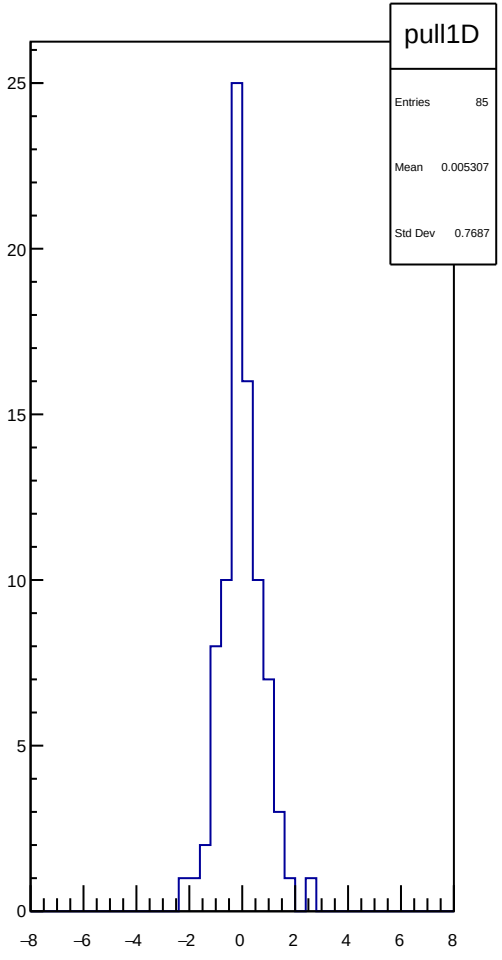

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.283e+04 / 84
p0 5295 ± 4.21
6500
6000
5500
5000
4500

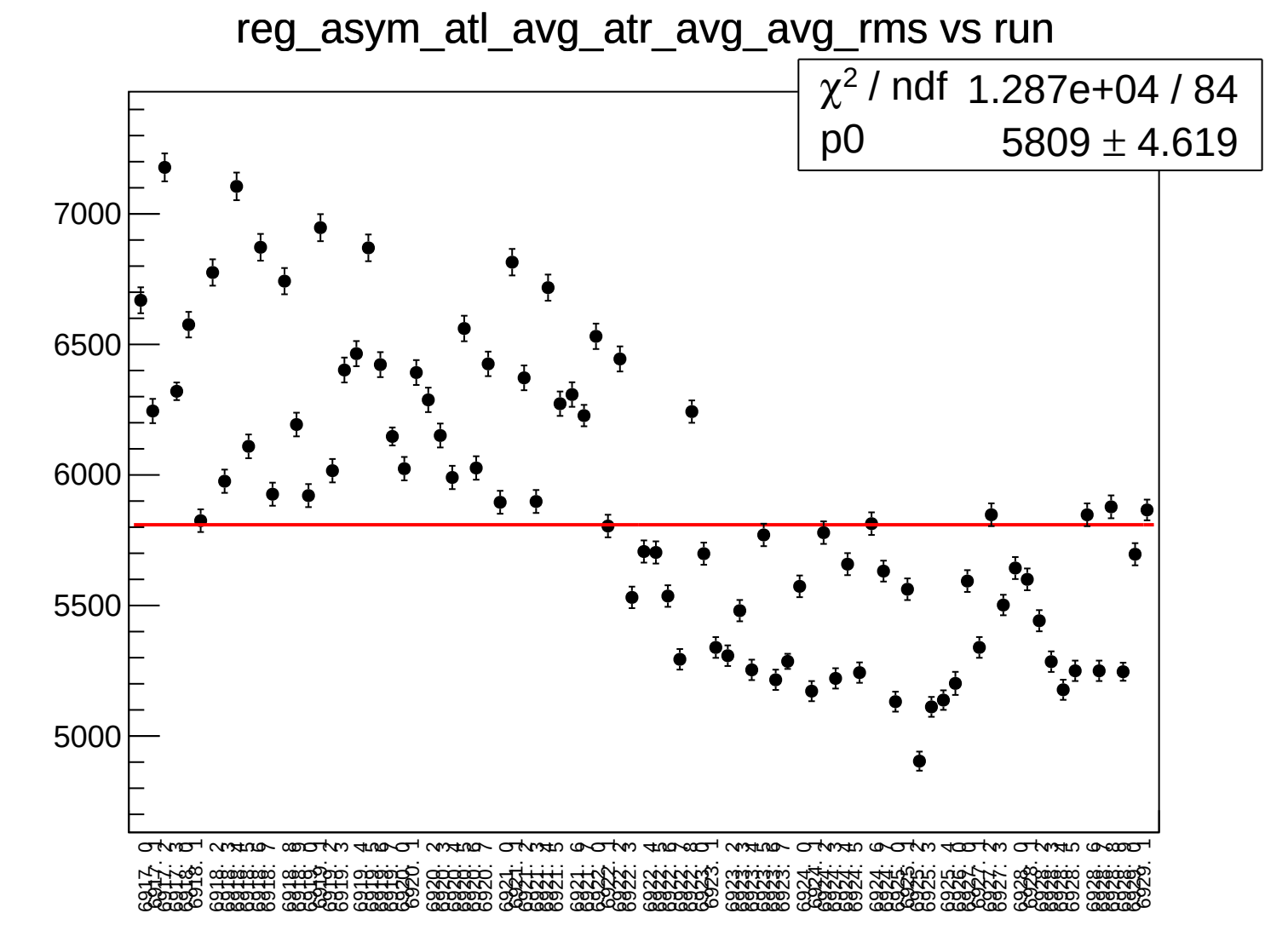

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 43.02 / 84
p0 943.5 ± 6359
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −193.2
Std Dev 218.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

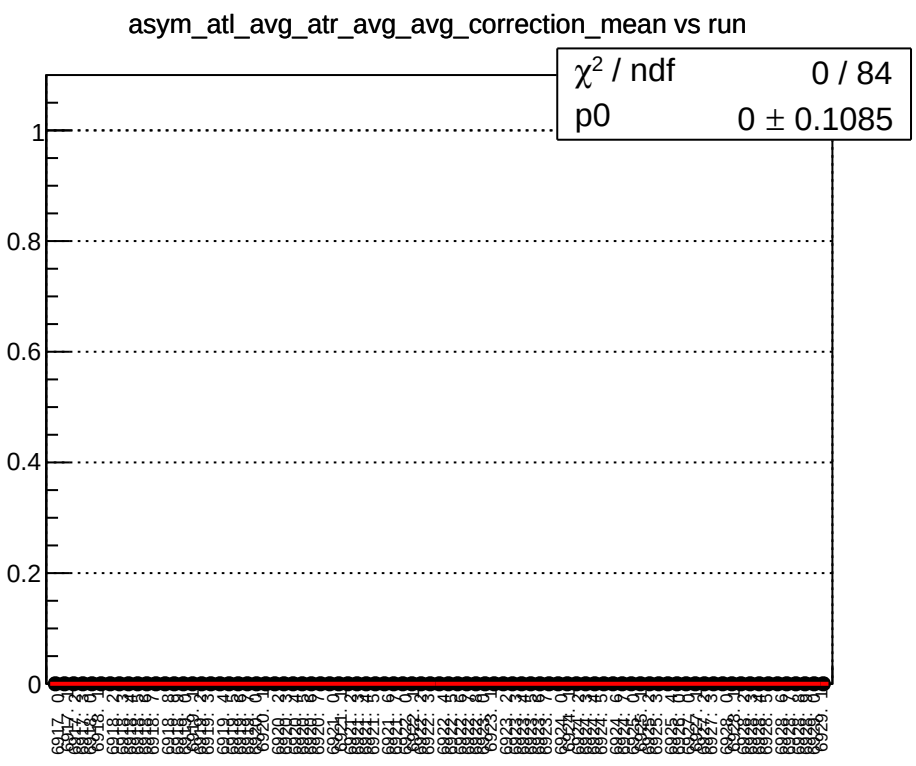

pull1D
Entries 85
Mean −0.003187
Std Dev 0.7114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

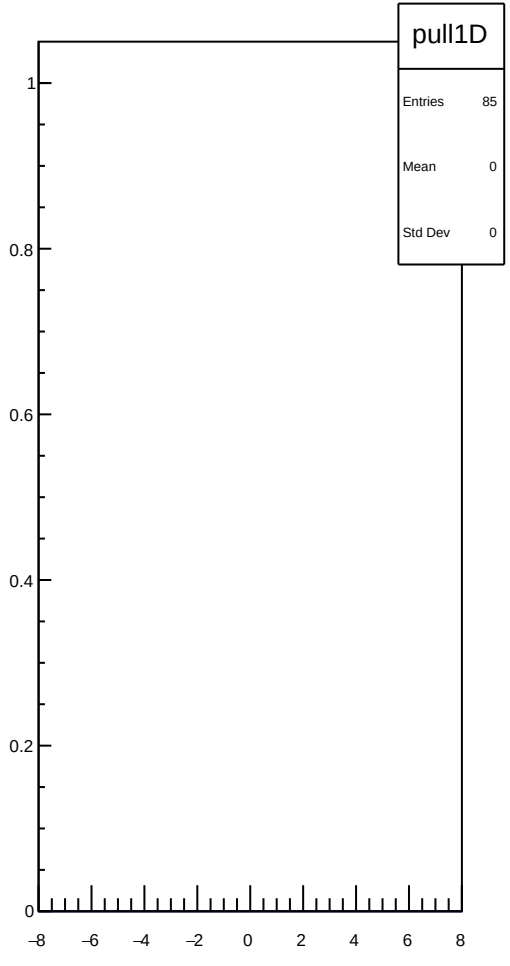

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1.136e+04 / 84
p0 5658 ± 4.496
7500
7000
6500
6000
5500
5000

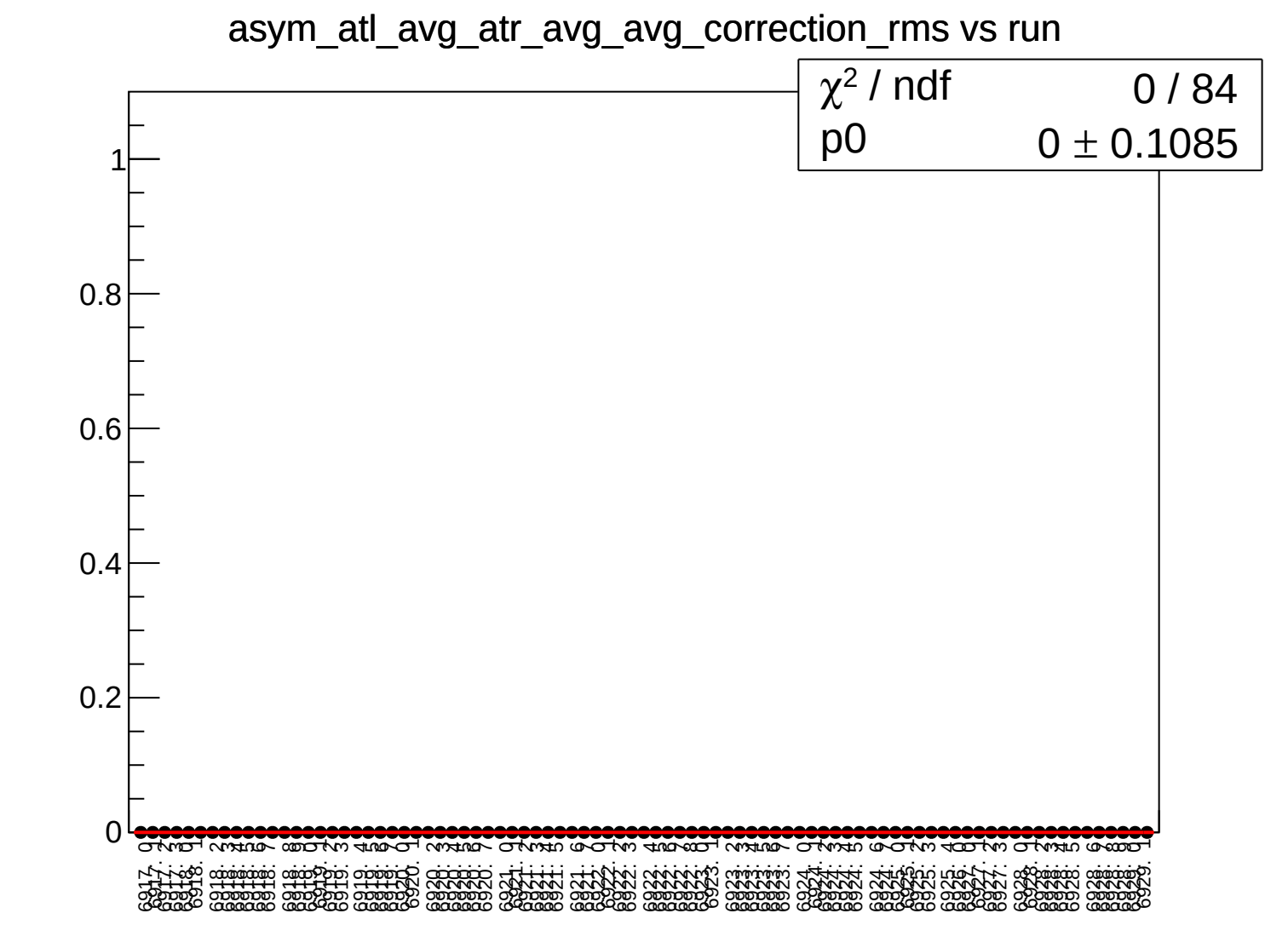

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 50.23 / 84
p0 7080 ± 6532
pull
Entries 85
Mean −74.6
Std Dev 94.64

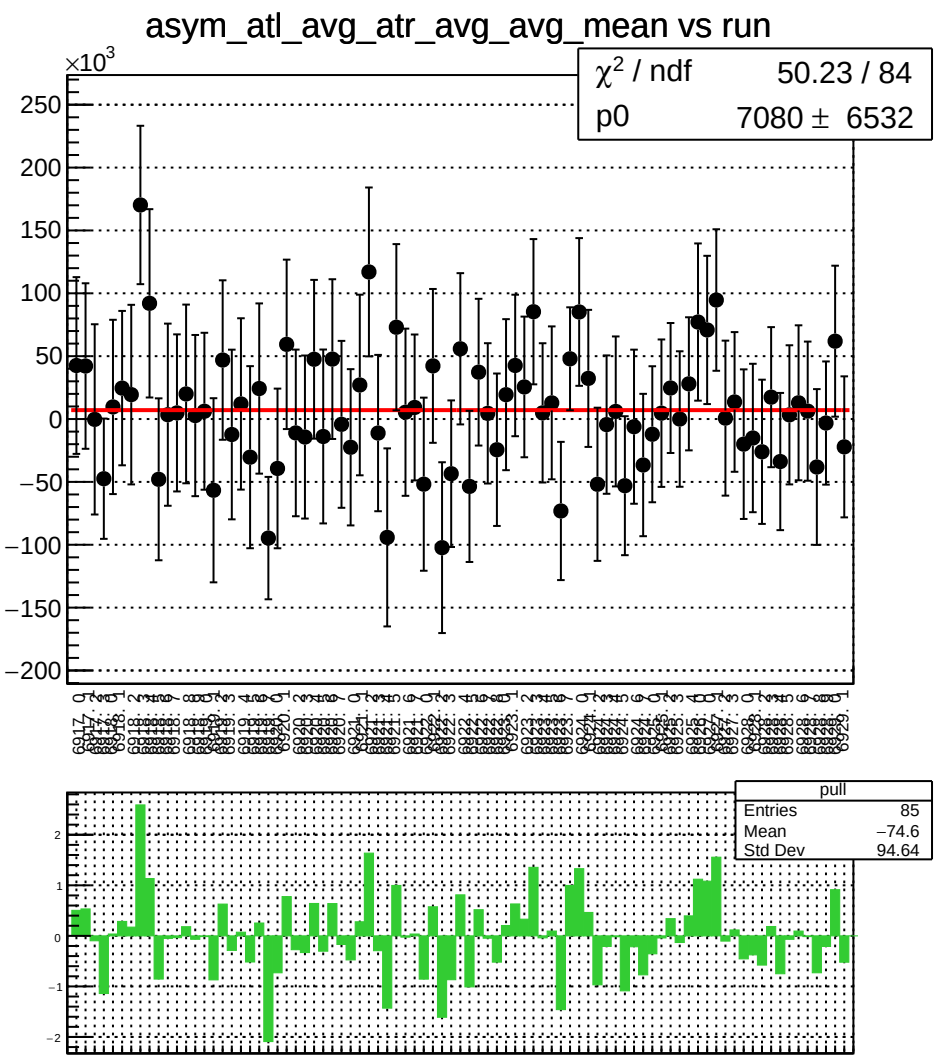

pull1D
Entries 85
Mean 0.005307
Std Dev 0.7687

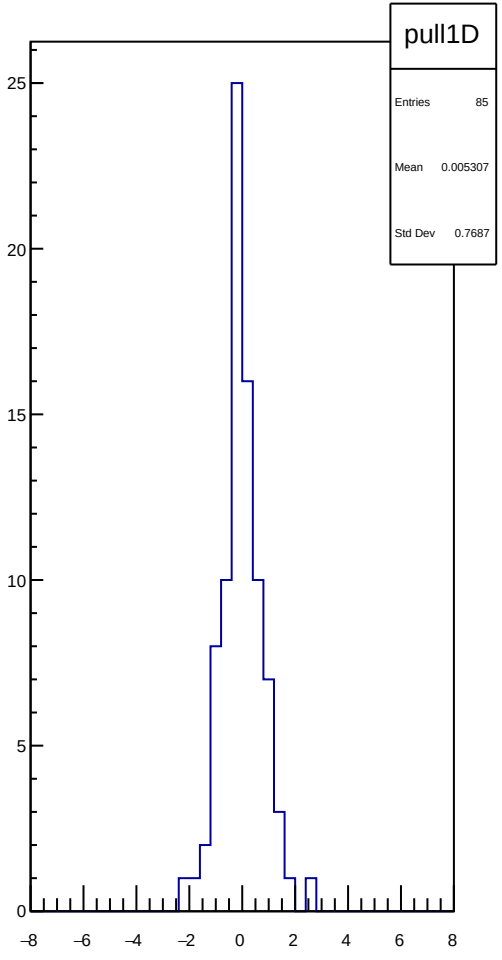

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.287e+04 / 84
p0 5809 ± 4.619
7000
6500
6000
5500
5000

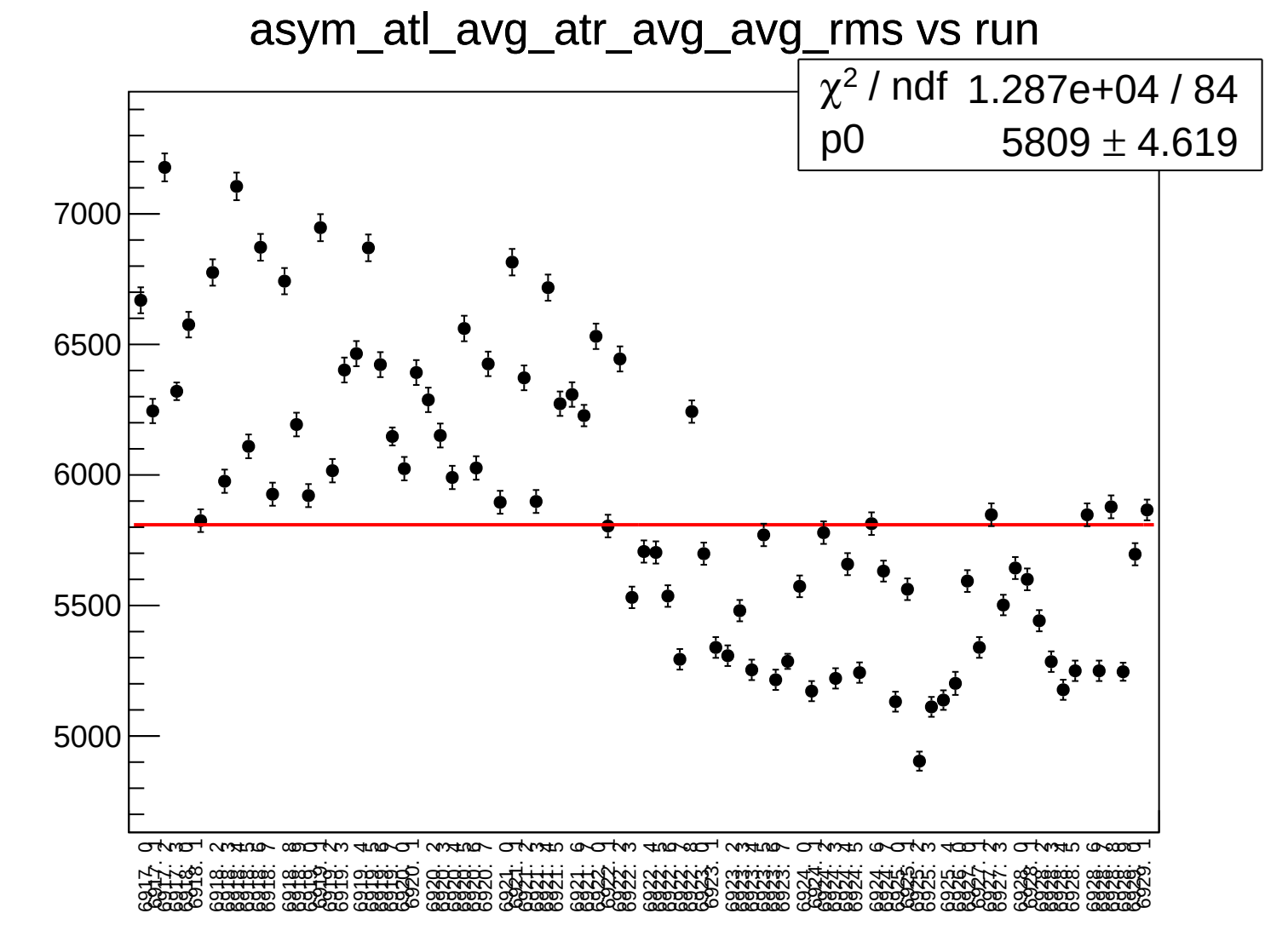

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

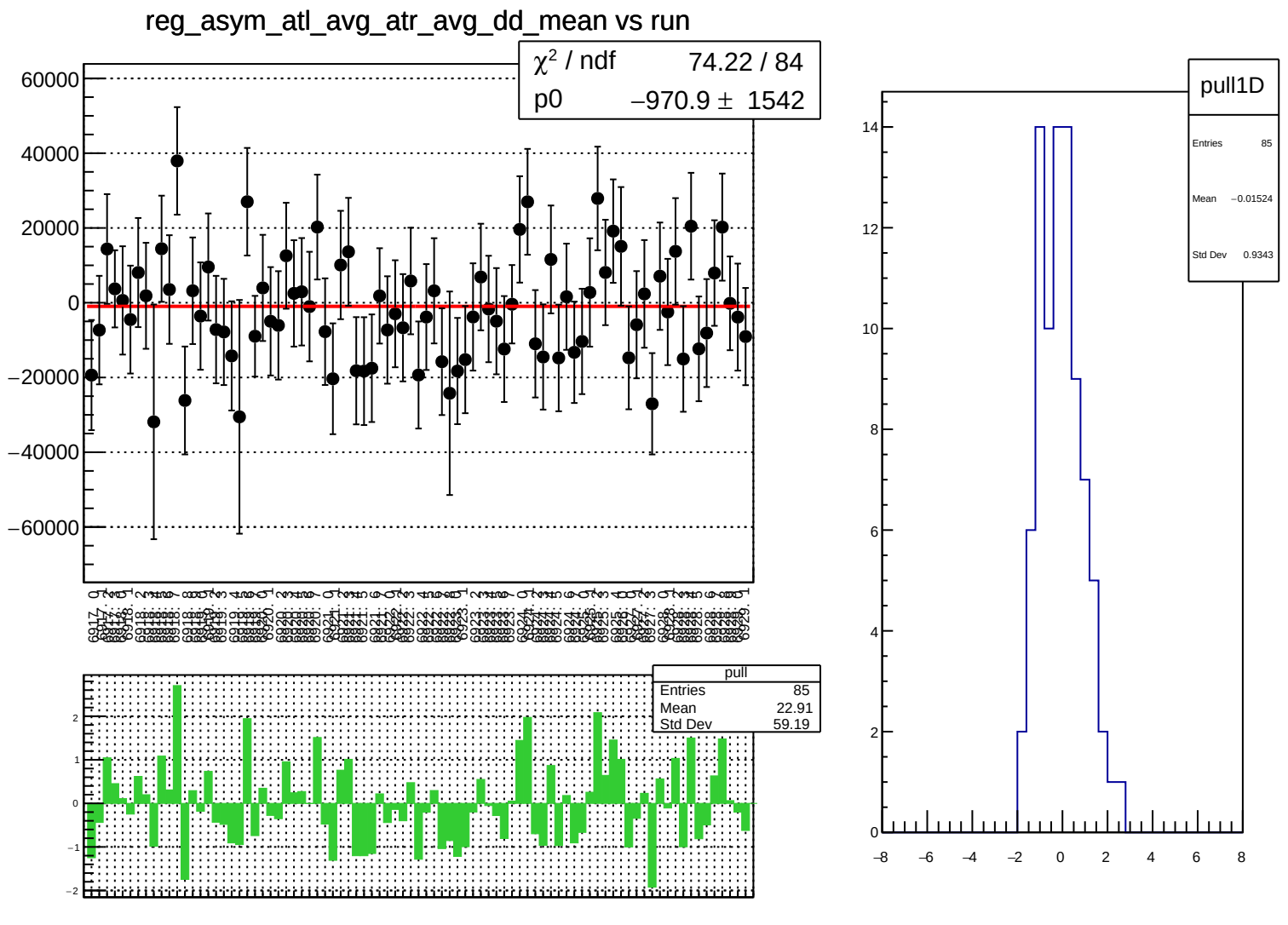

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

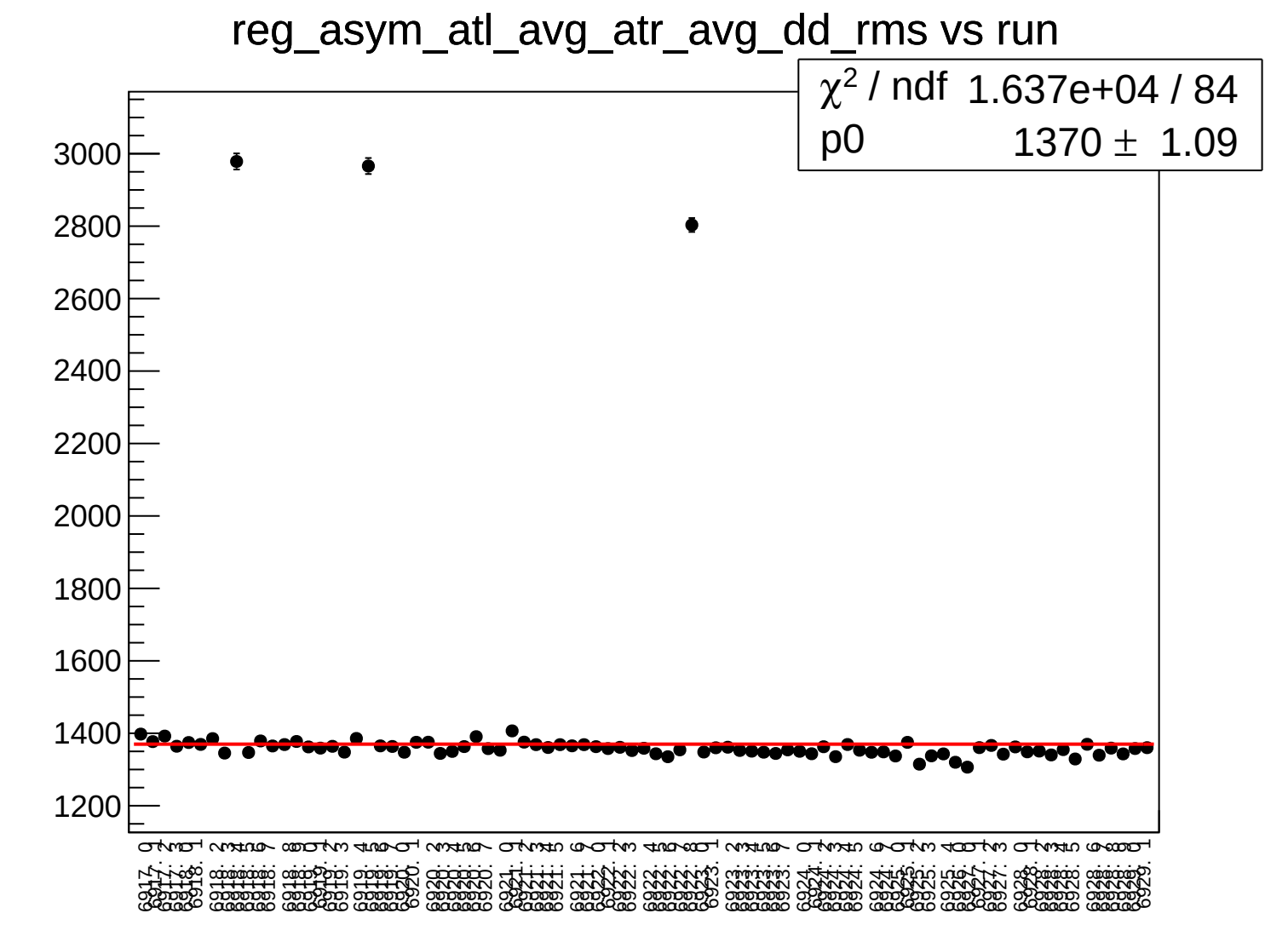

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

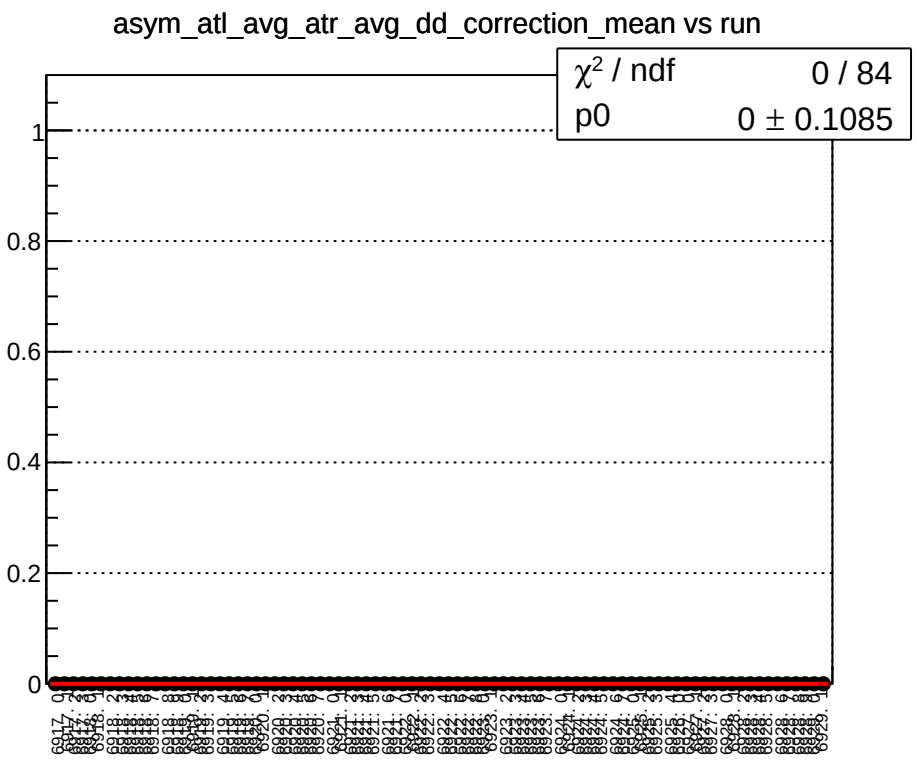

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 50.23 / 84
p0 7080 ± 6532
pull
Entries 85
Mean −74.6
Std Dev 94.64

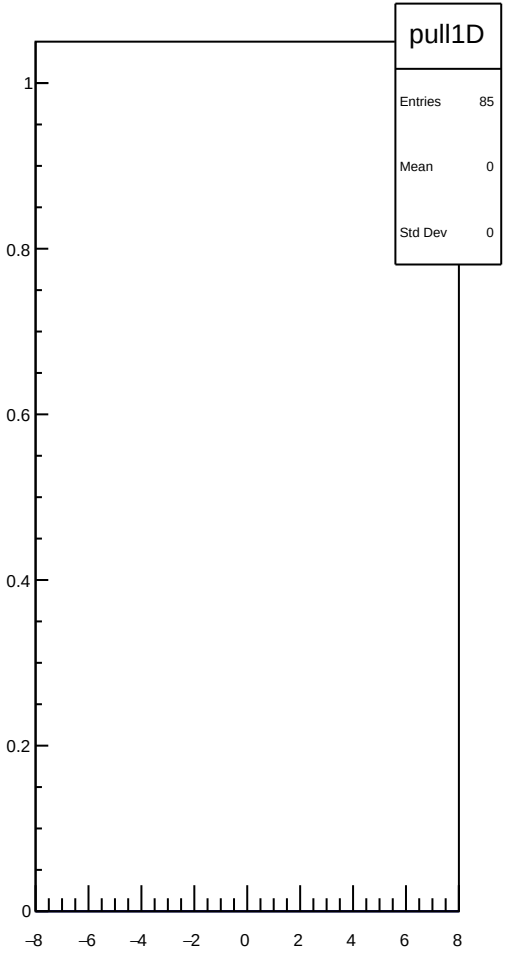

pull1D
Entries 85
Mean 0.005307
Std Dev 0.7687

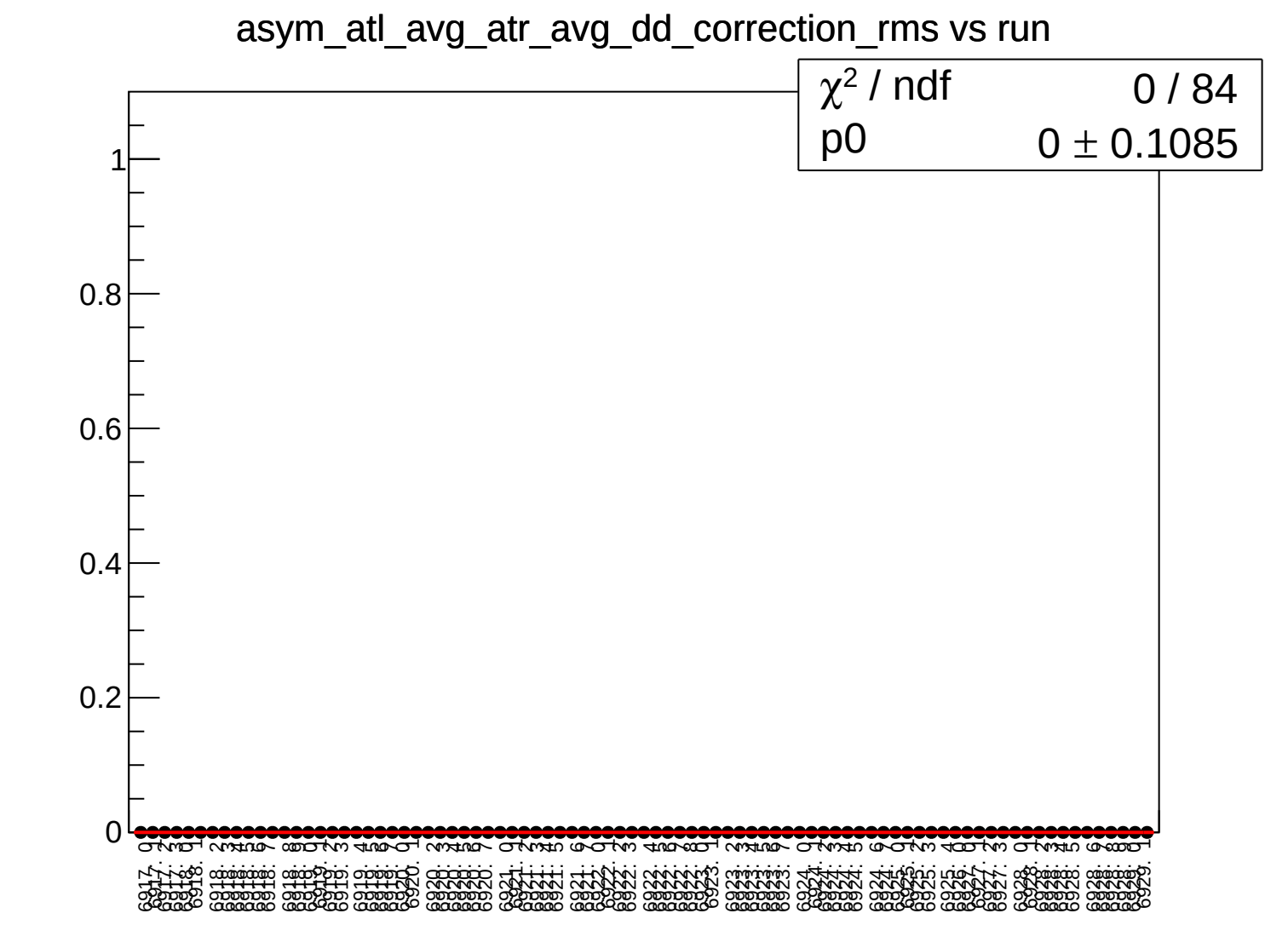

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.287e+04 / 84
p0 5809 ± 4.619
7000
6500
6000
5500
5000

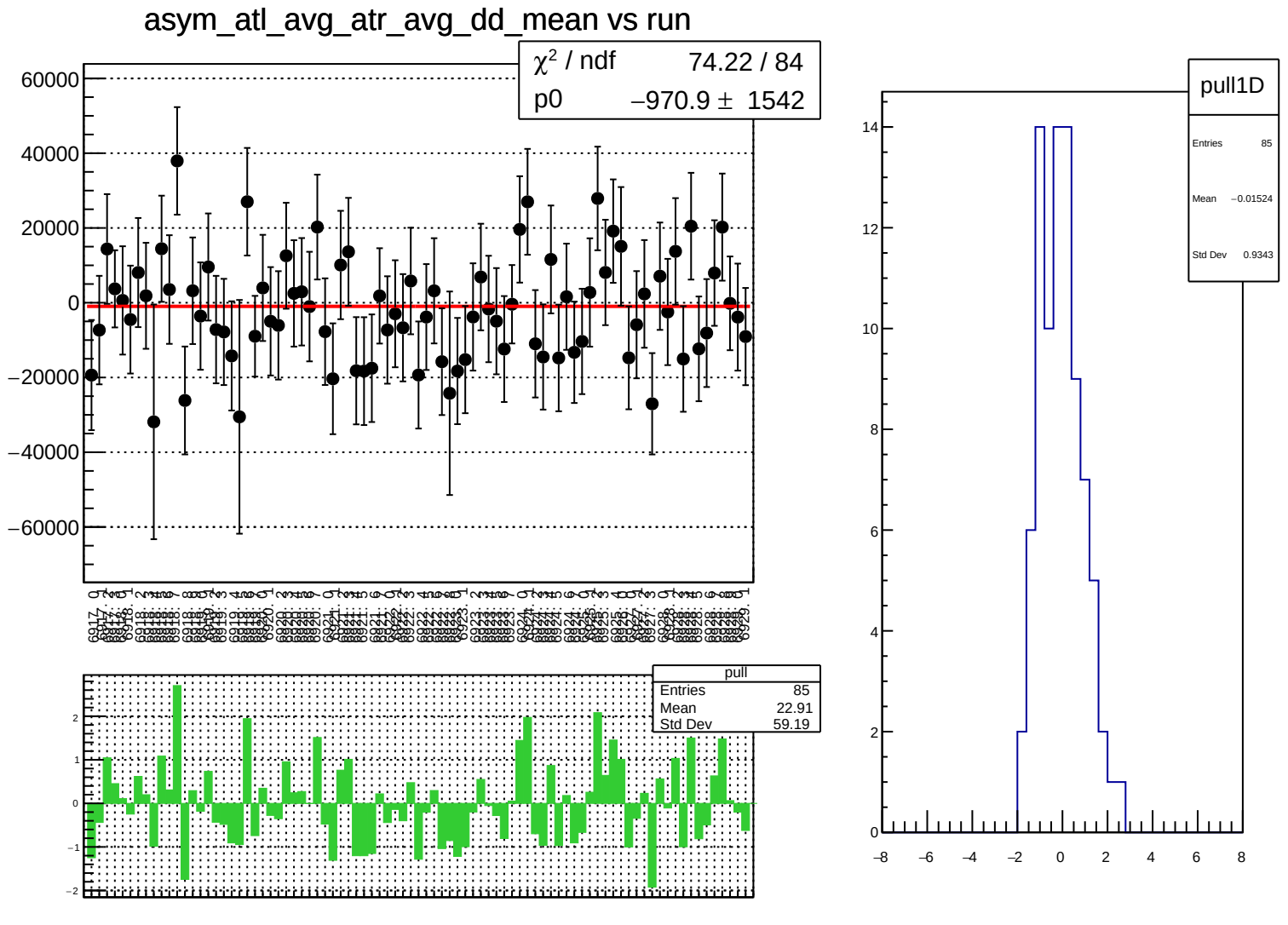

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 74.22 / 84
p0 −970.9 ± 1542
pull
Entries 85
Mean 22.91
Std Dev 59.19
pull1D
Entries 85
Mean −0.01524
Std Dev 0.9343

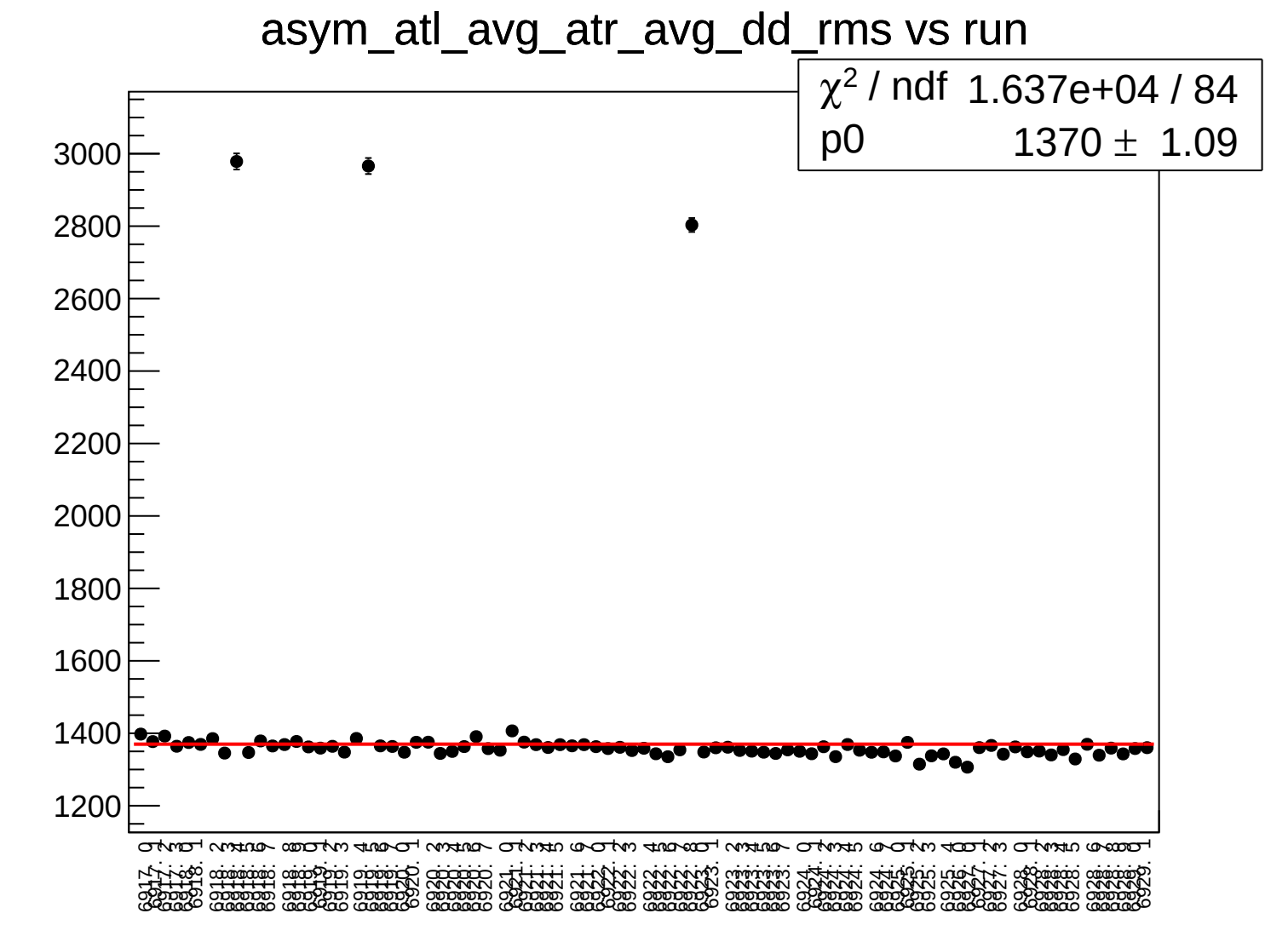

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.637e+04 / 84
p0 1370 ± 1.09
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

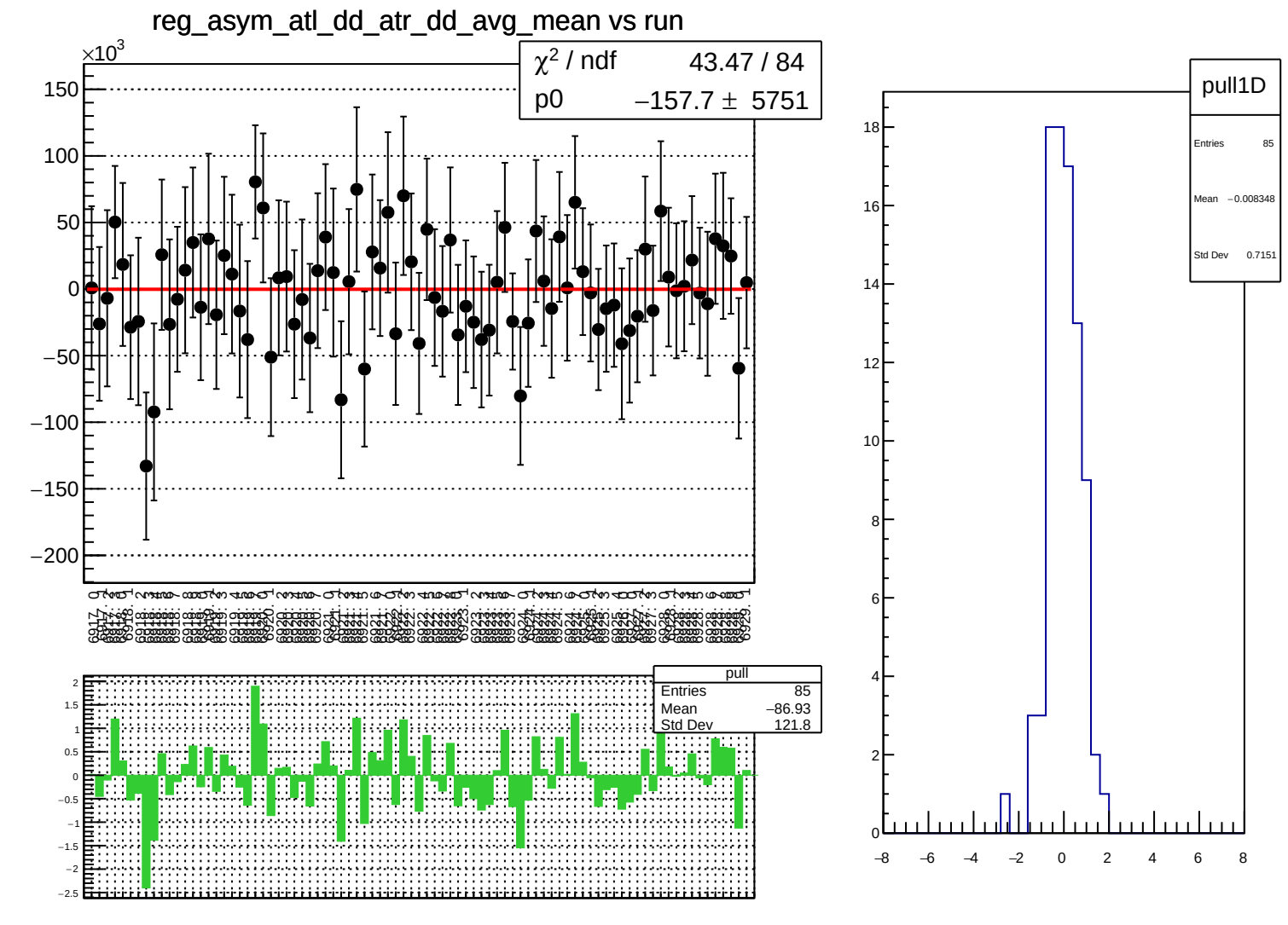

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

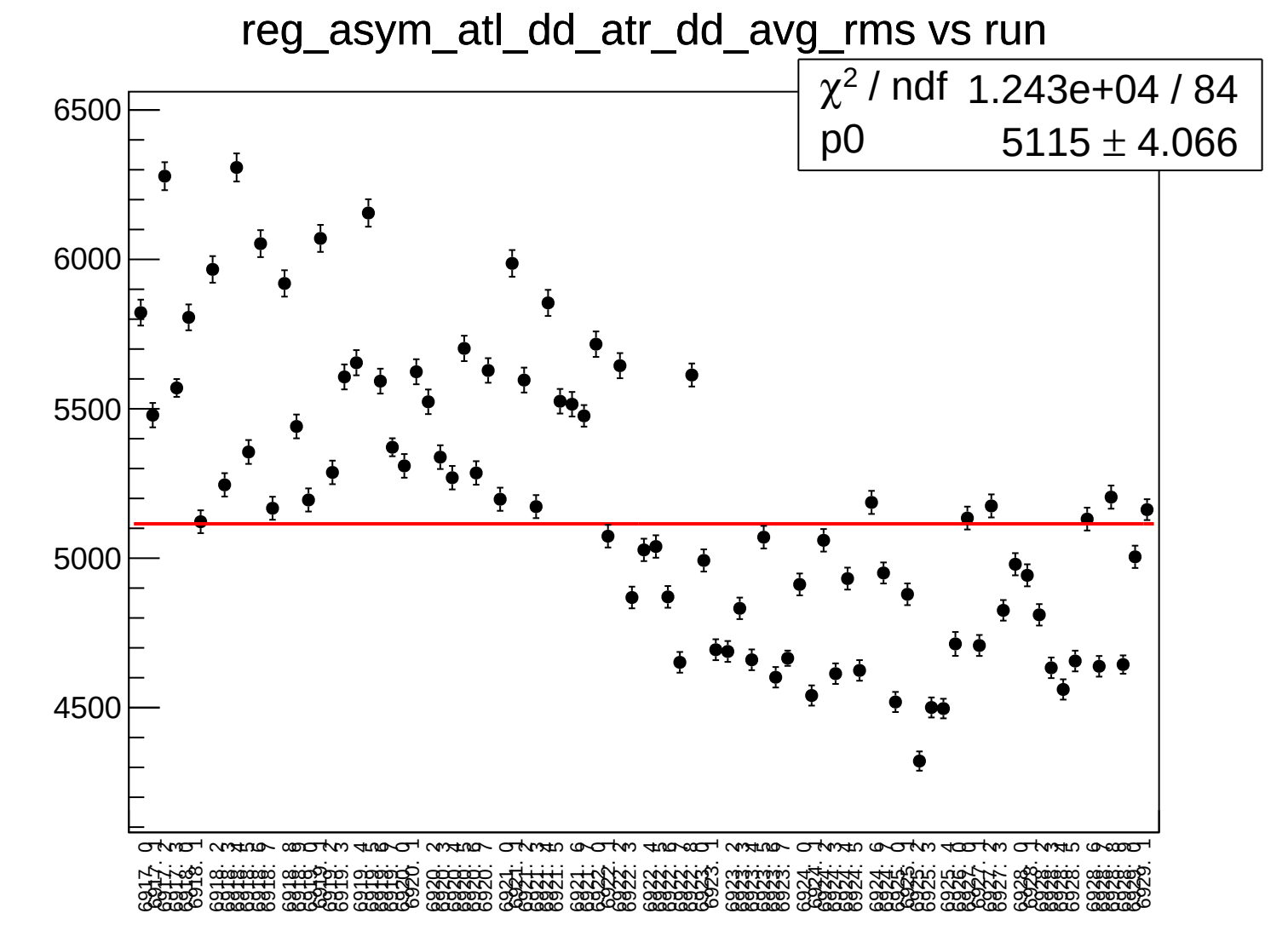

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

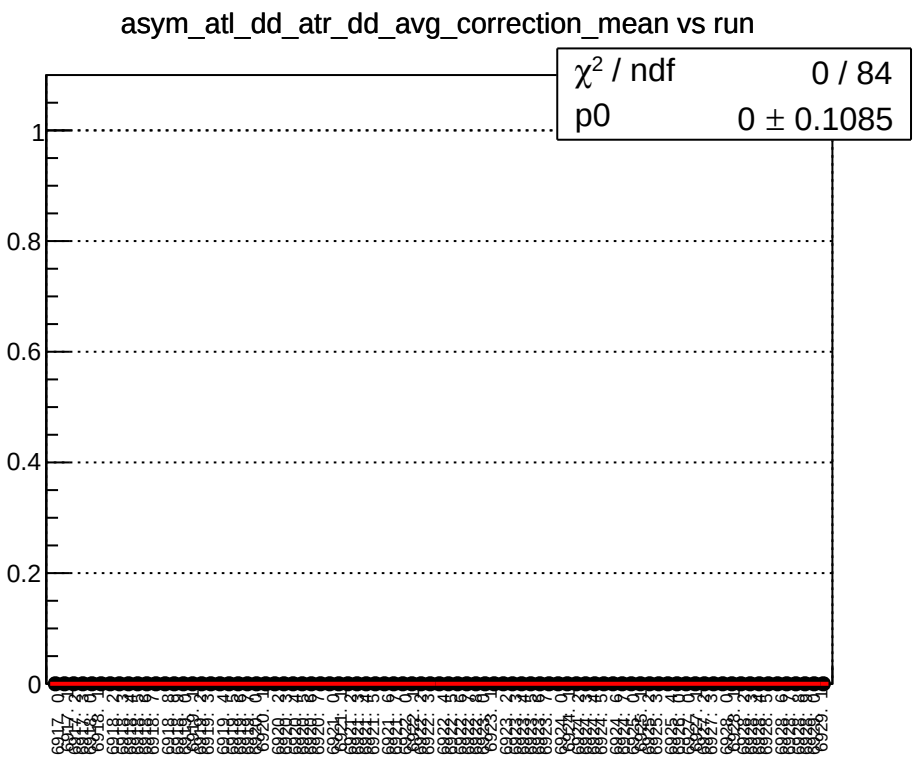

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

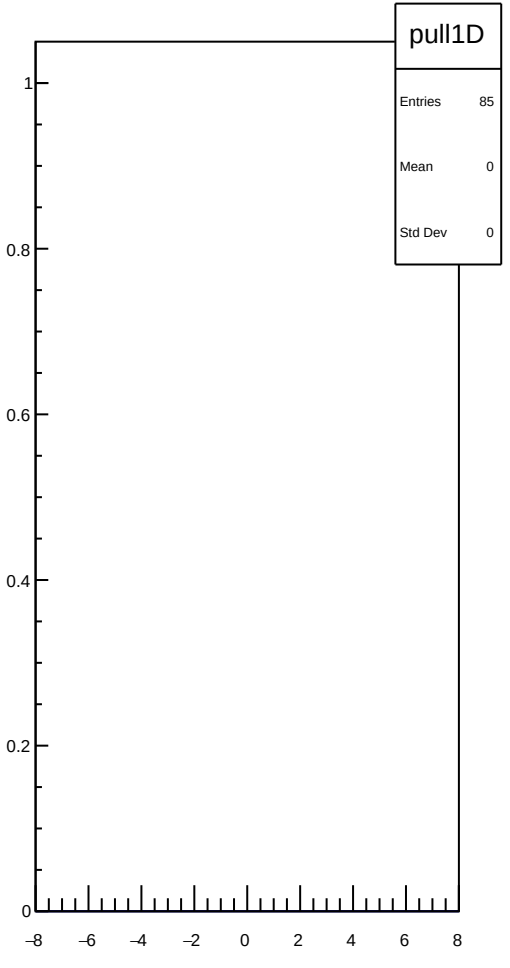

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 74.22 / 84
p0 −970.9 ± 1542
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 22.91
Std Dev 59.19
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01524
Std Dev 0.9343
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

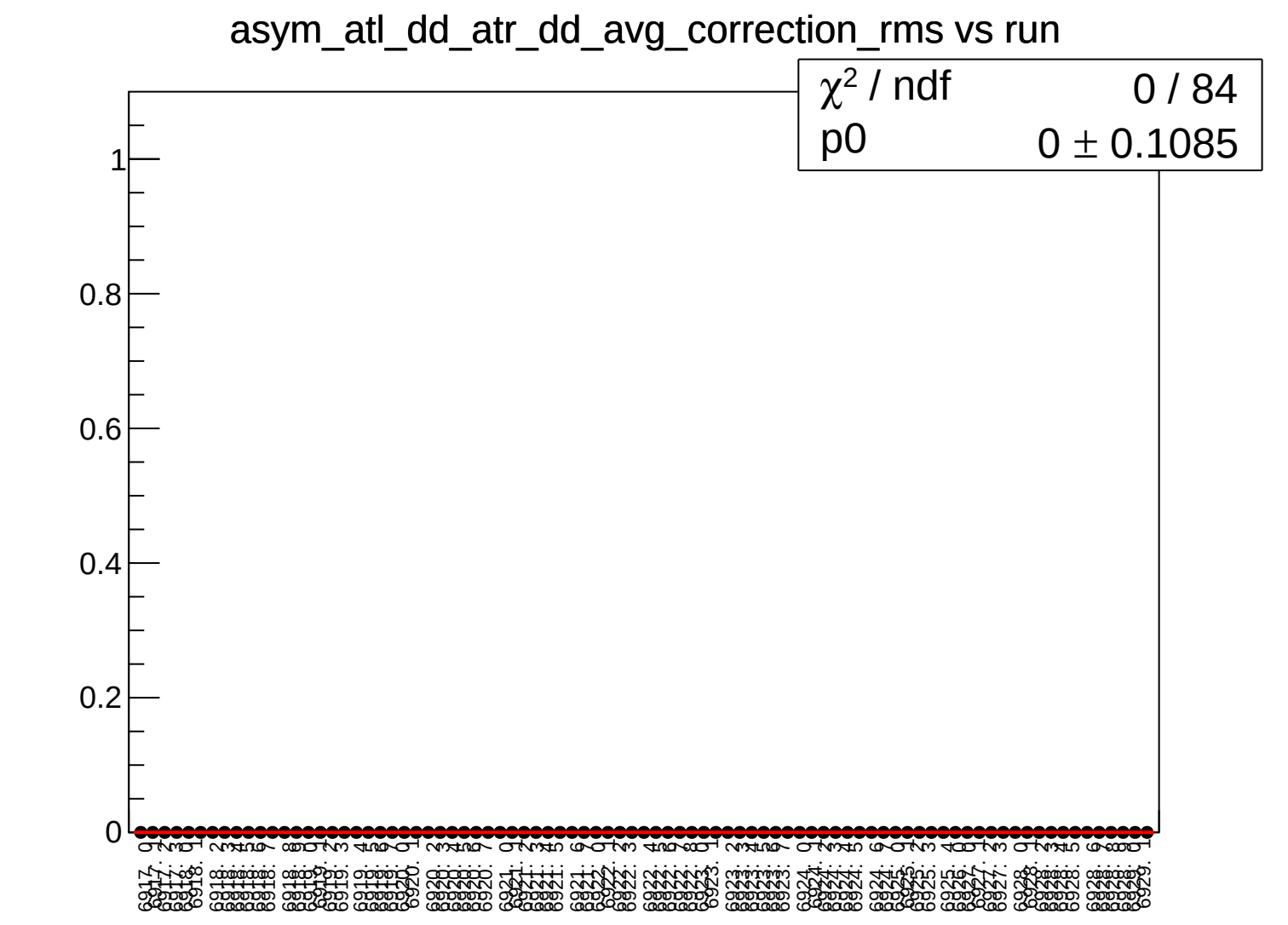

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.637e+04 / 84
p0 1370 ± 1.09
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

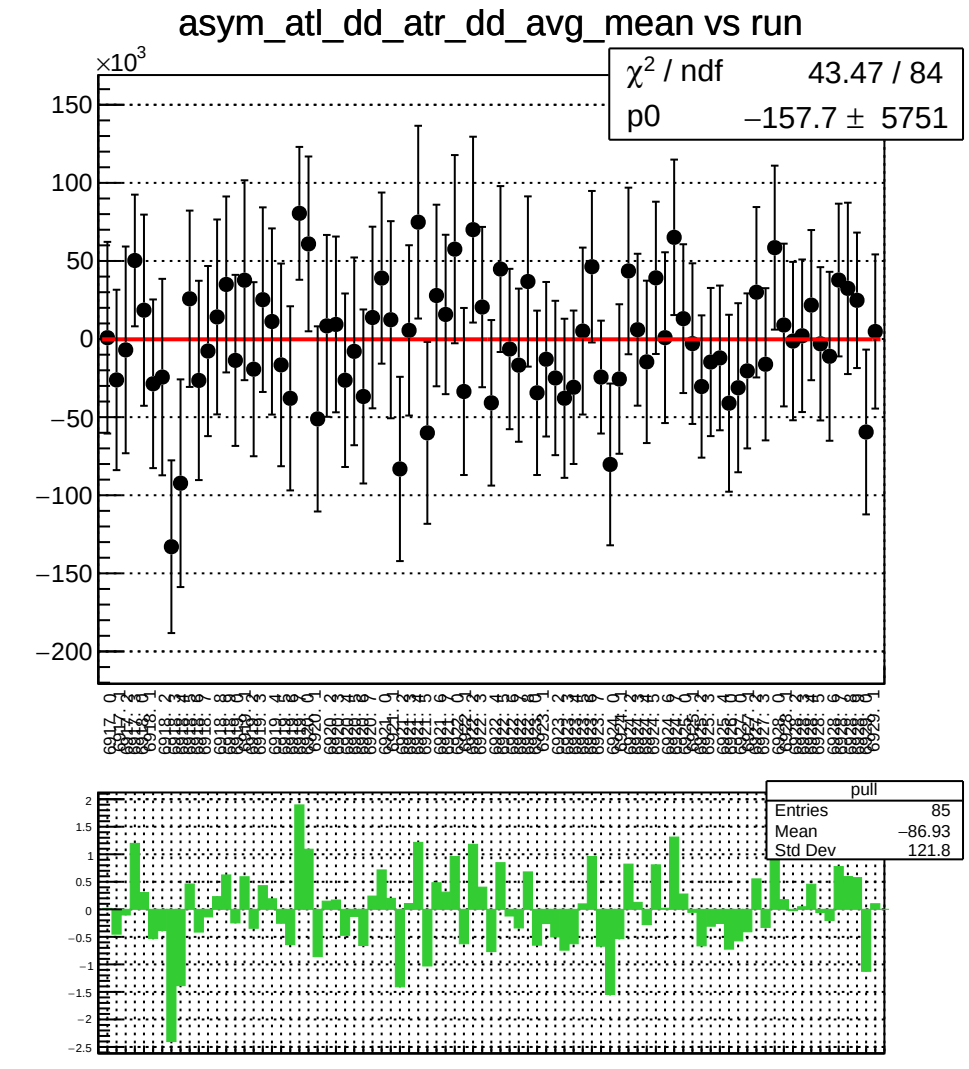

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 43.47 / 84
p0 −157.7 ± 5751
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −86.93
Std Dev 121.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean −0.008348
Std Dev 0.7151
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

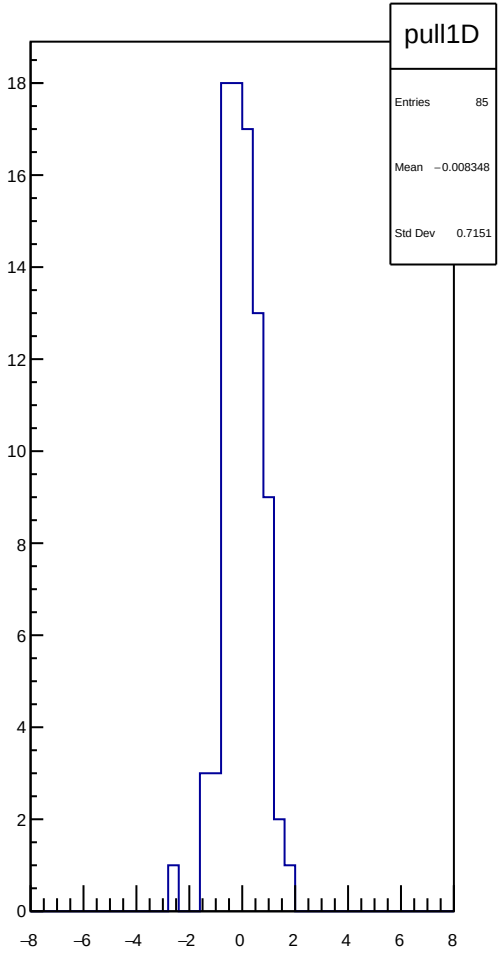

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.243e+04 / 84
p0 5115 ± 4.066
6500
6000
5500
5000
4500

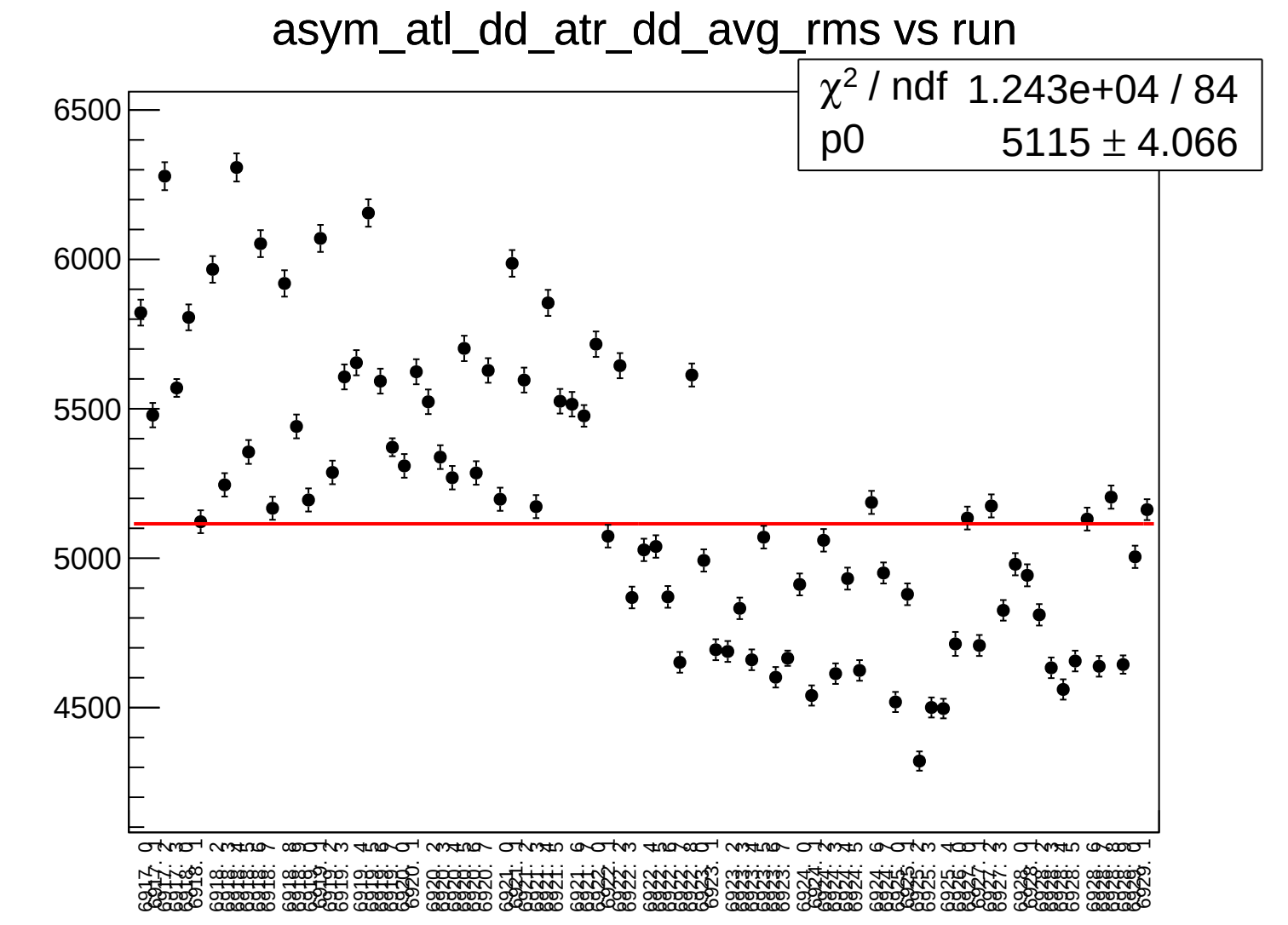

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

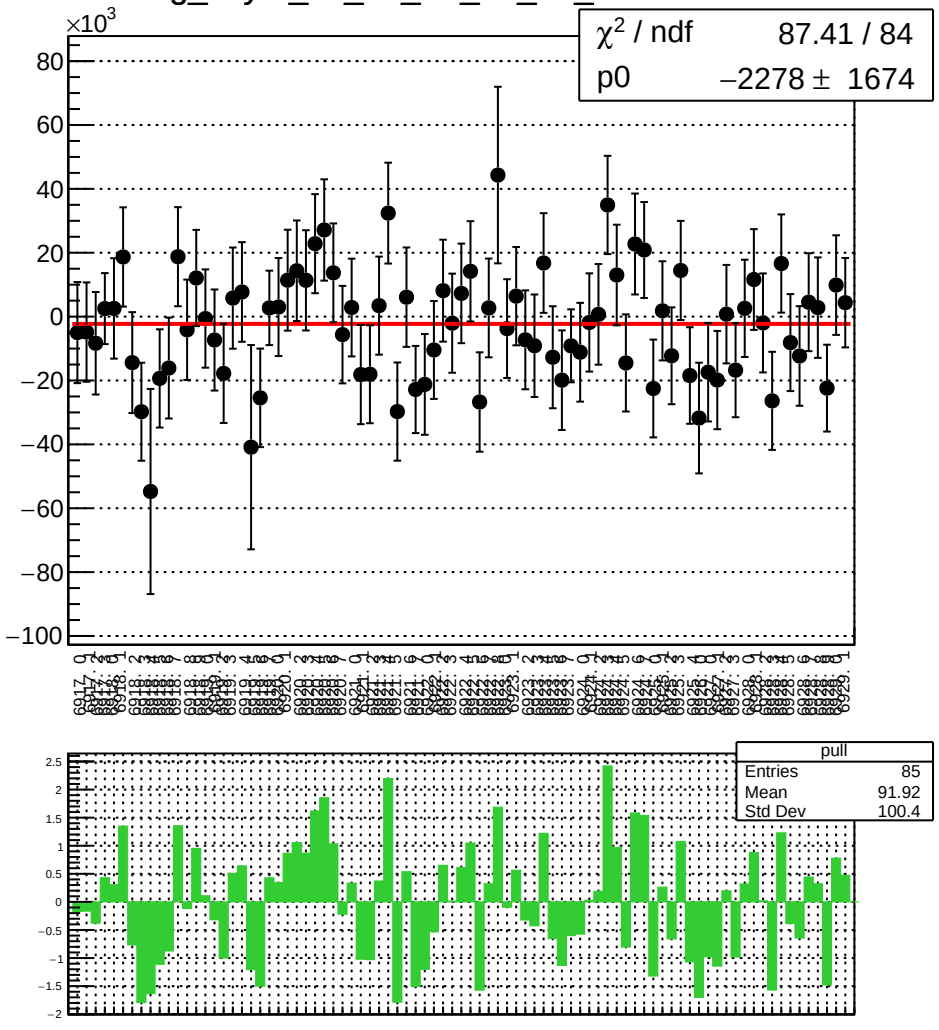

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

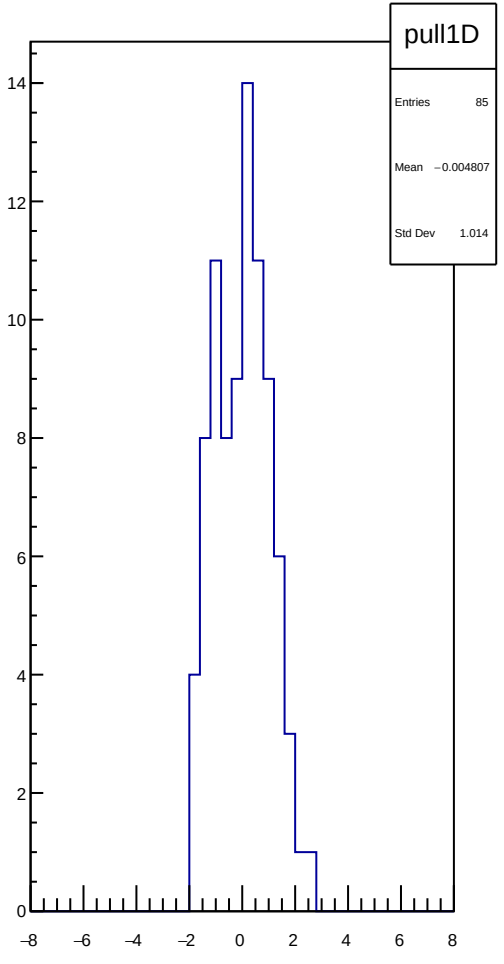

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

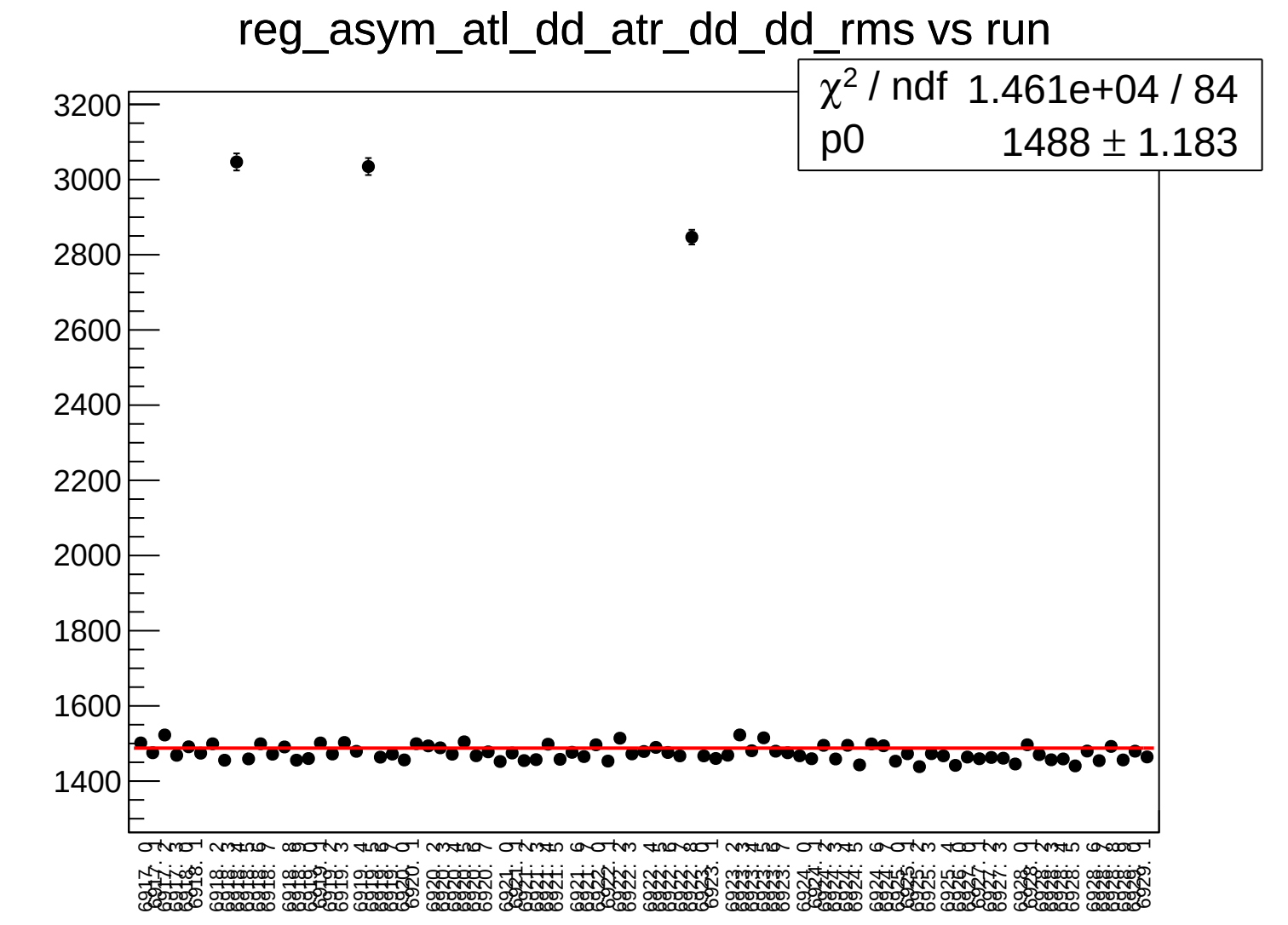

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 43.47 / 84
p0 −157.7 ± 5751
×10³
pull
Entries 85
Mean −86.93
Std Dev 121.8

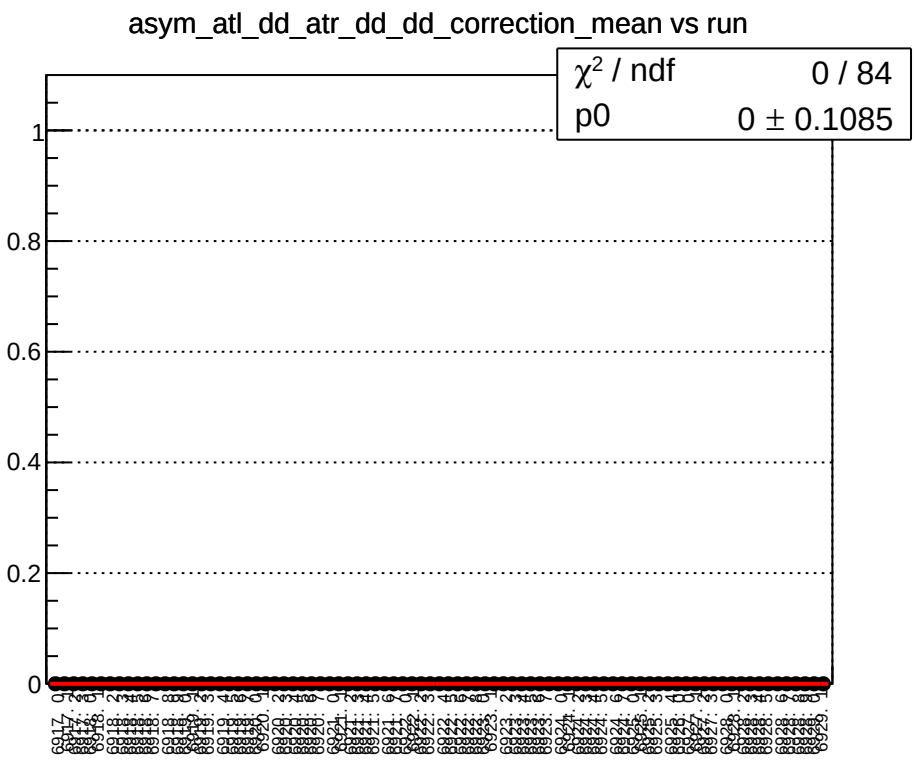

pull1D
Entries 85
Mean −0.008348
Std Dev 0.7151

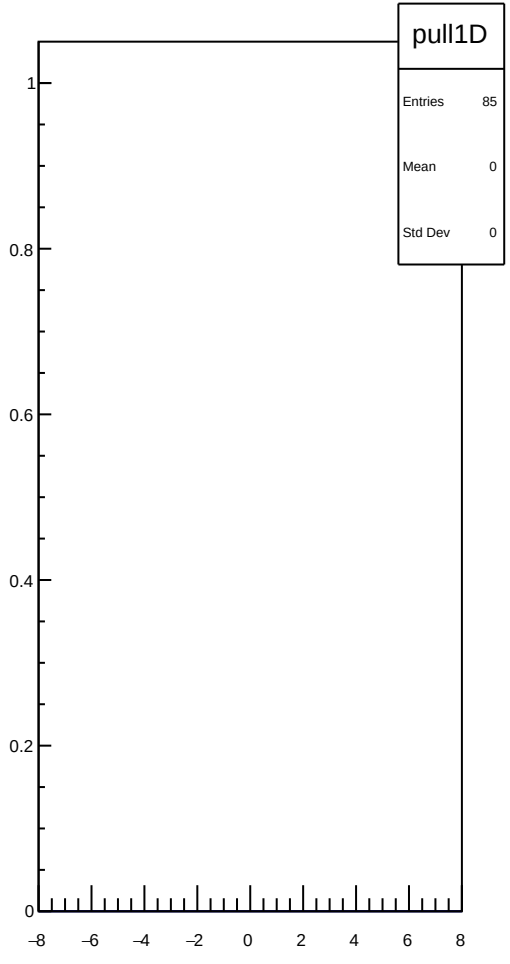

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.243e+04 / 84
p0 5115 ± 4.066
6500
6000
5500
5000
4500

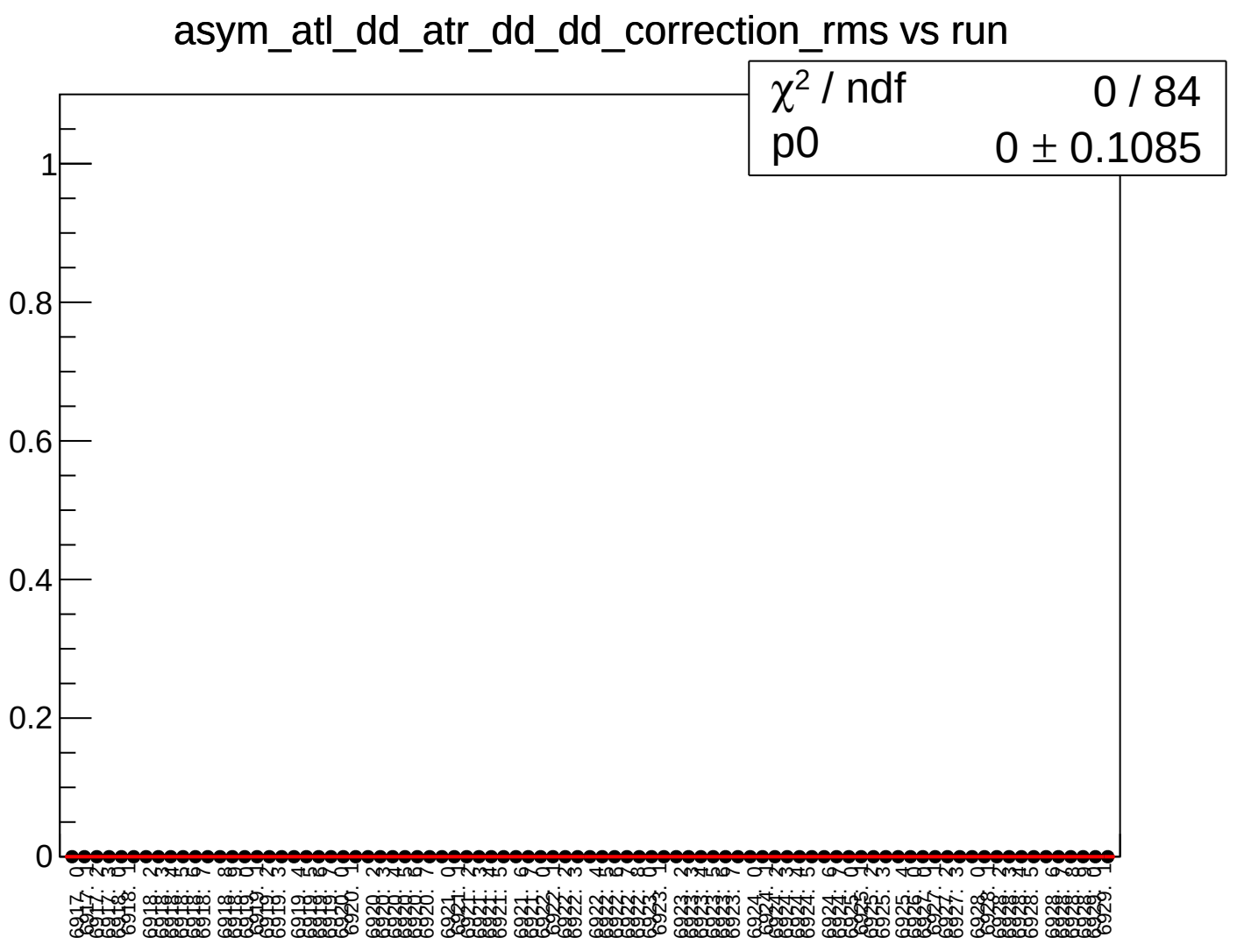

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 87.41 / 84
p0 −2278 ± 1674
pull
Entries 85
Mean 91.92
Std Dev 100.4

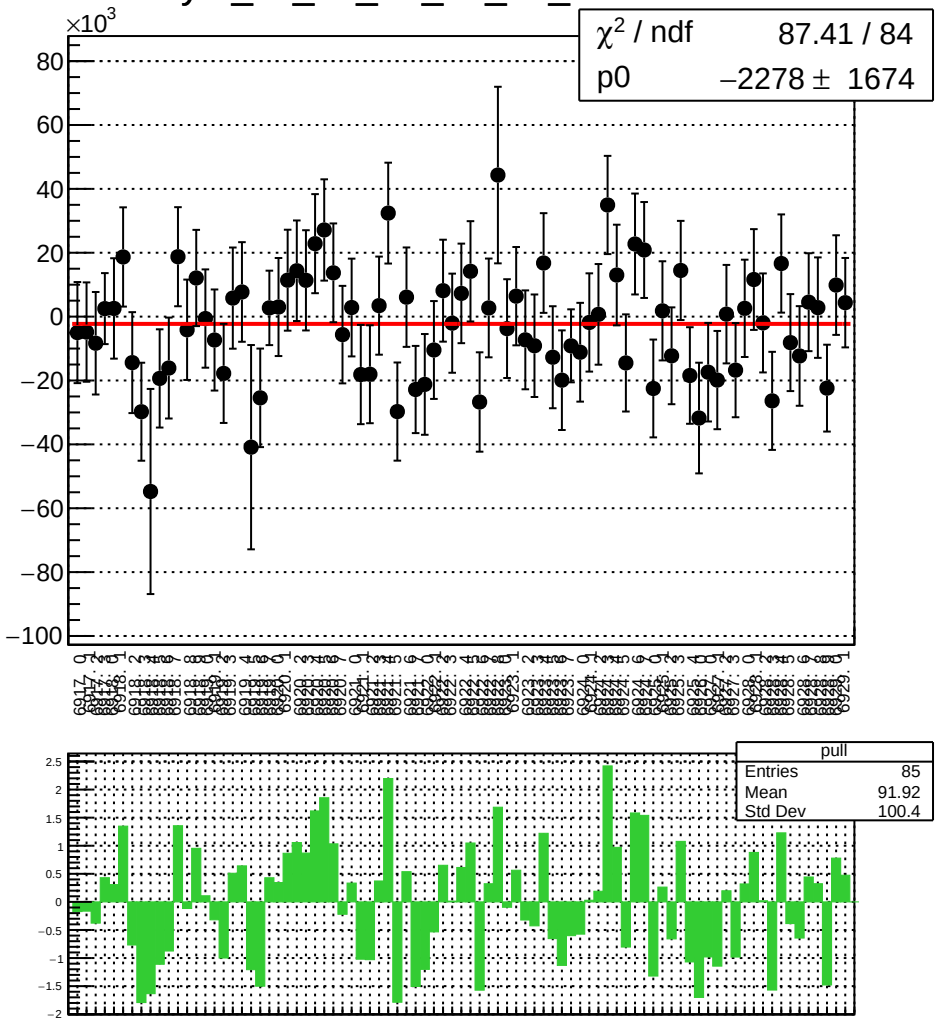

pull1D
Entries 85
Mean −0.004807
Std Dev 1.014

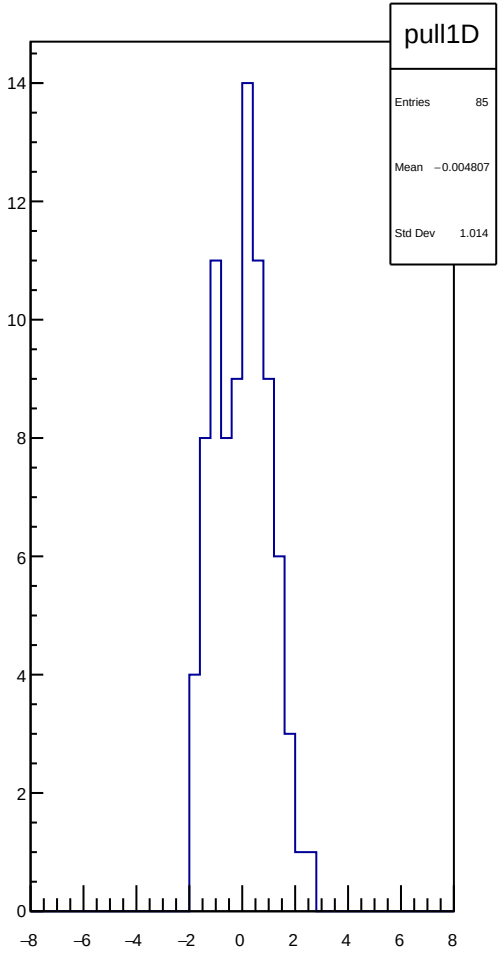

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.461e+04 / 84
p0 1488 ± 1.183
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

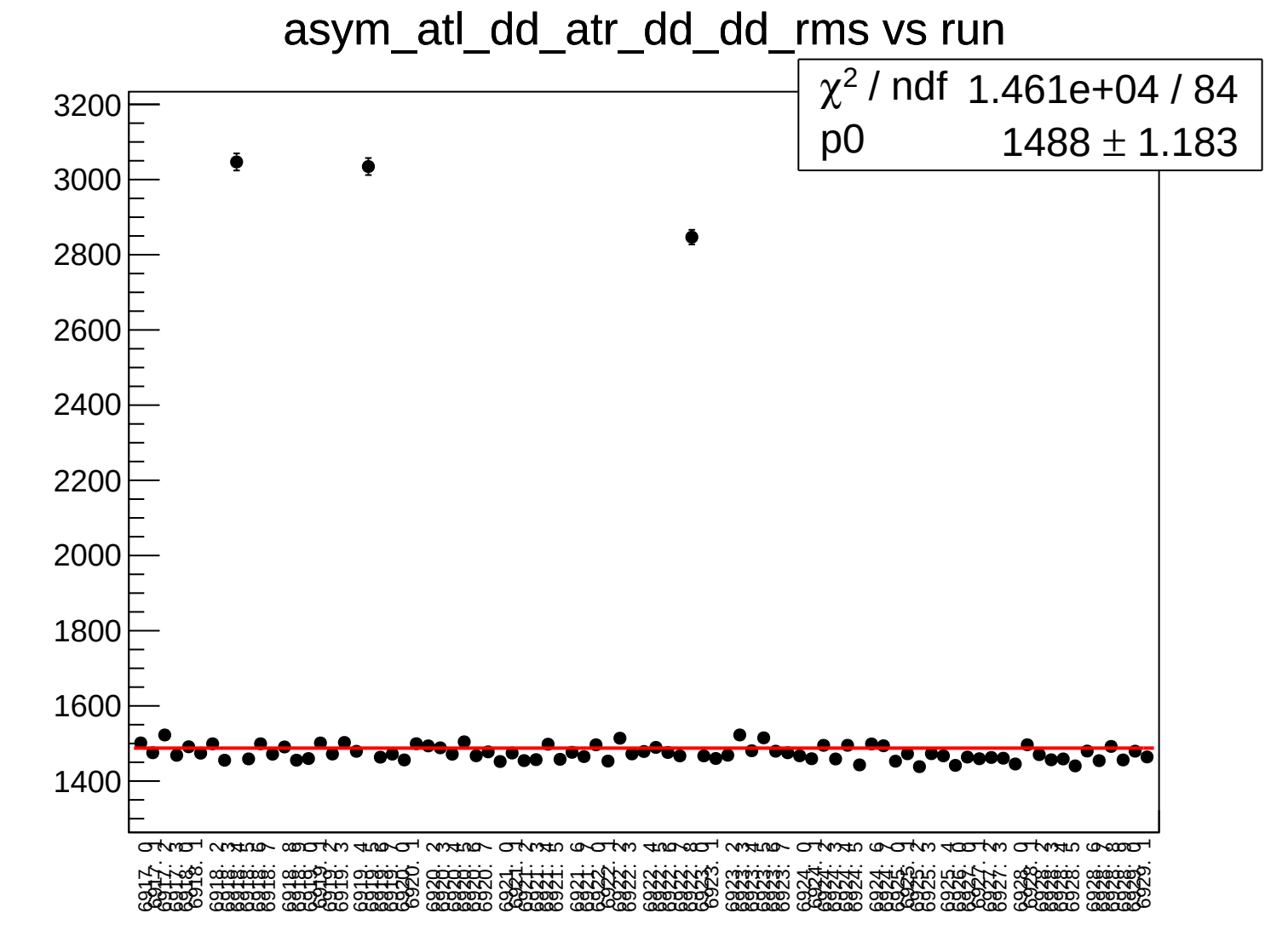

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

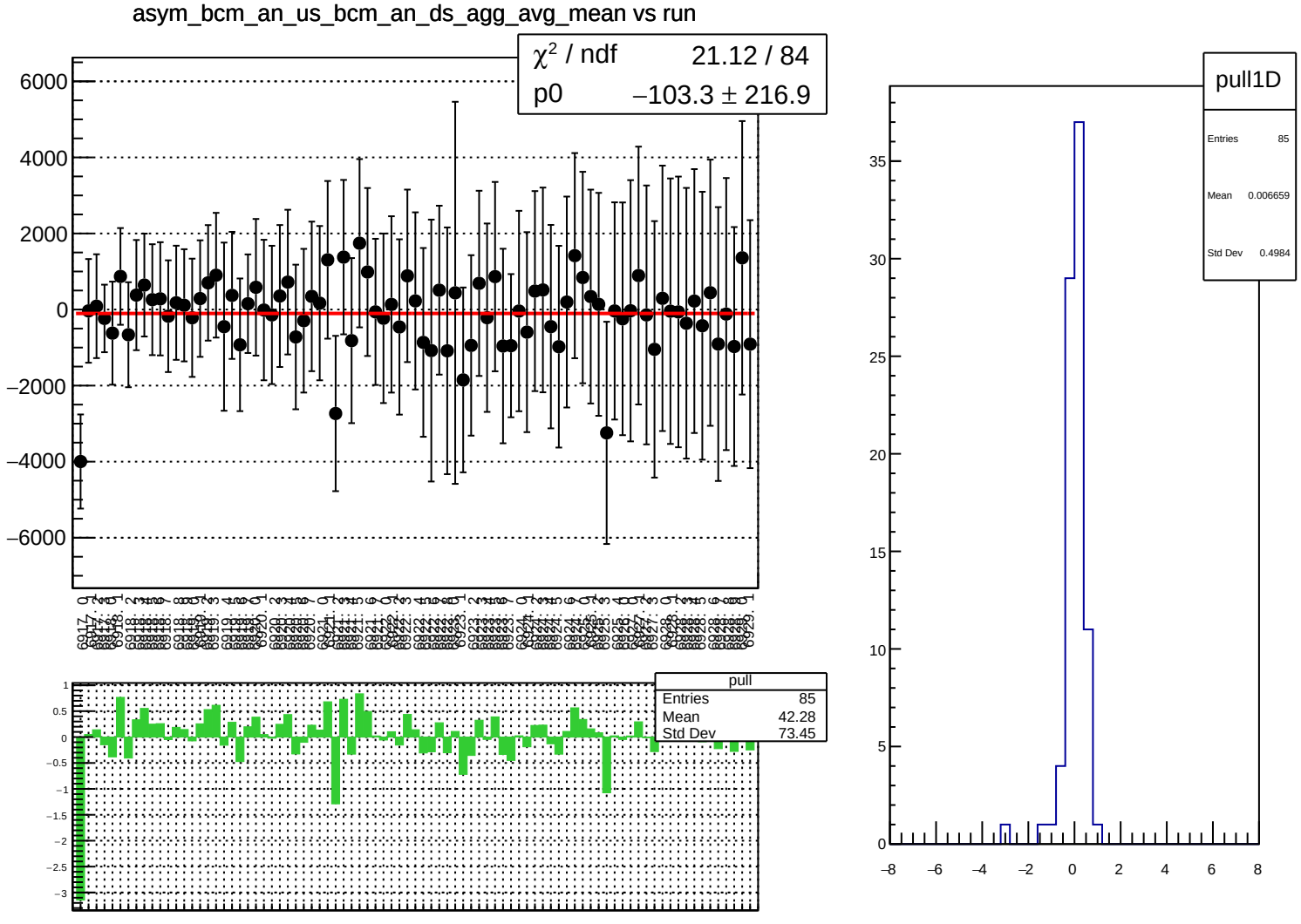

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

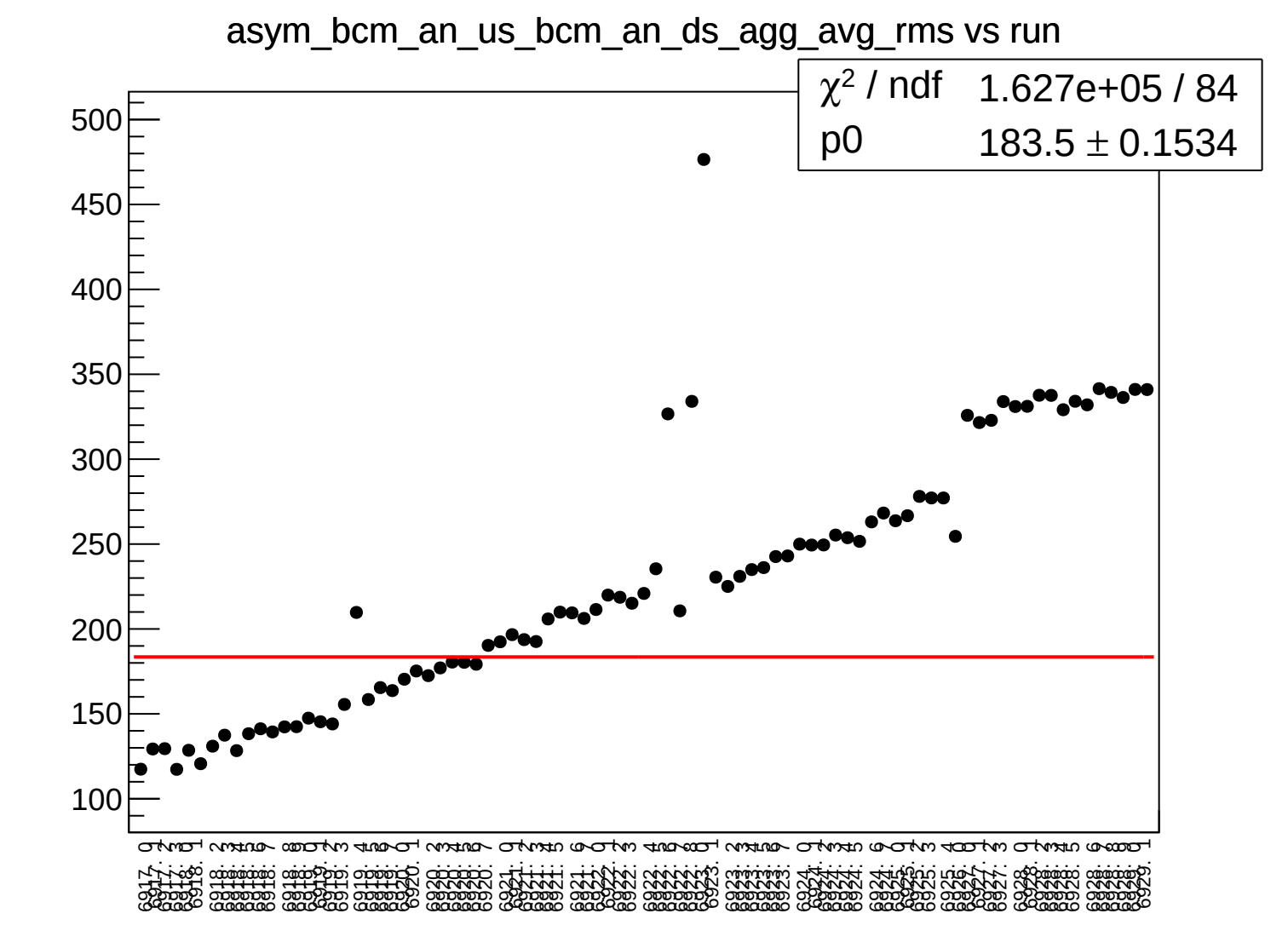

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 84
p0 0 ± 0.1085
1
0.8
0.6
0.4
0.2
0

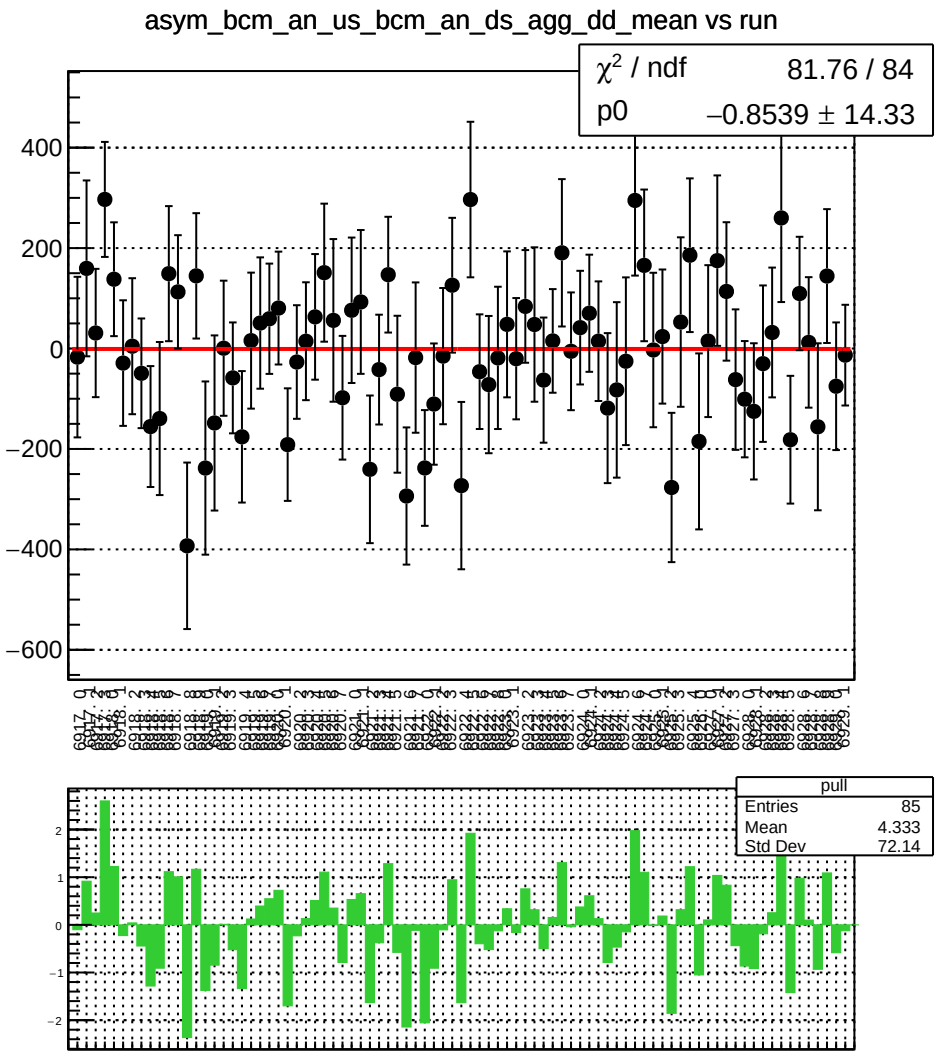

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 87.41 / 84
p0 −2278 ± 1674
pull
Entries 85
Mean 91.92
Std Dev 100.4

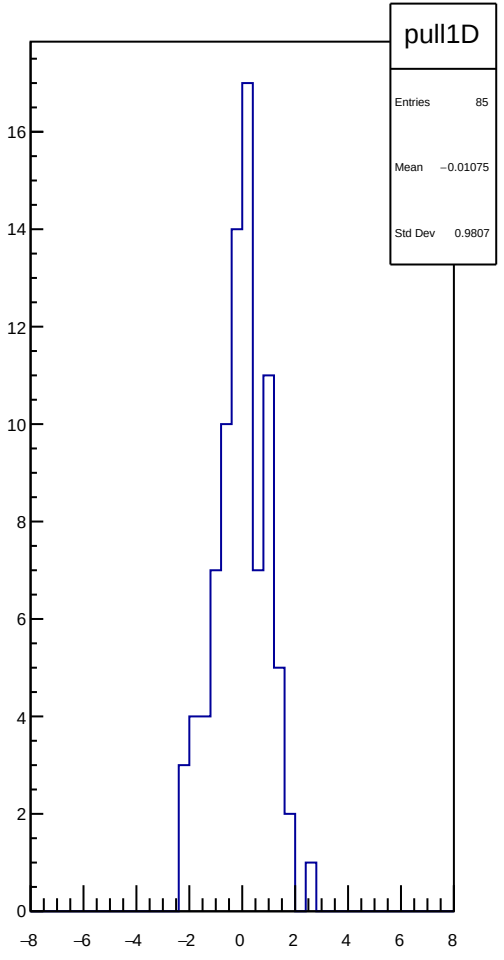

pull1D
Entries 85
Mean −0.004807
Std Dev 1.014

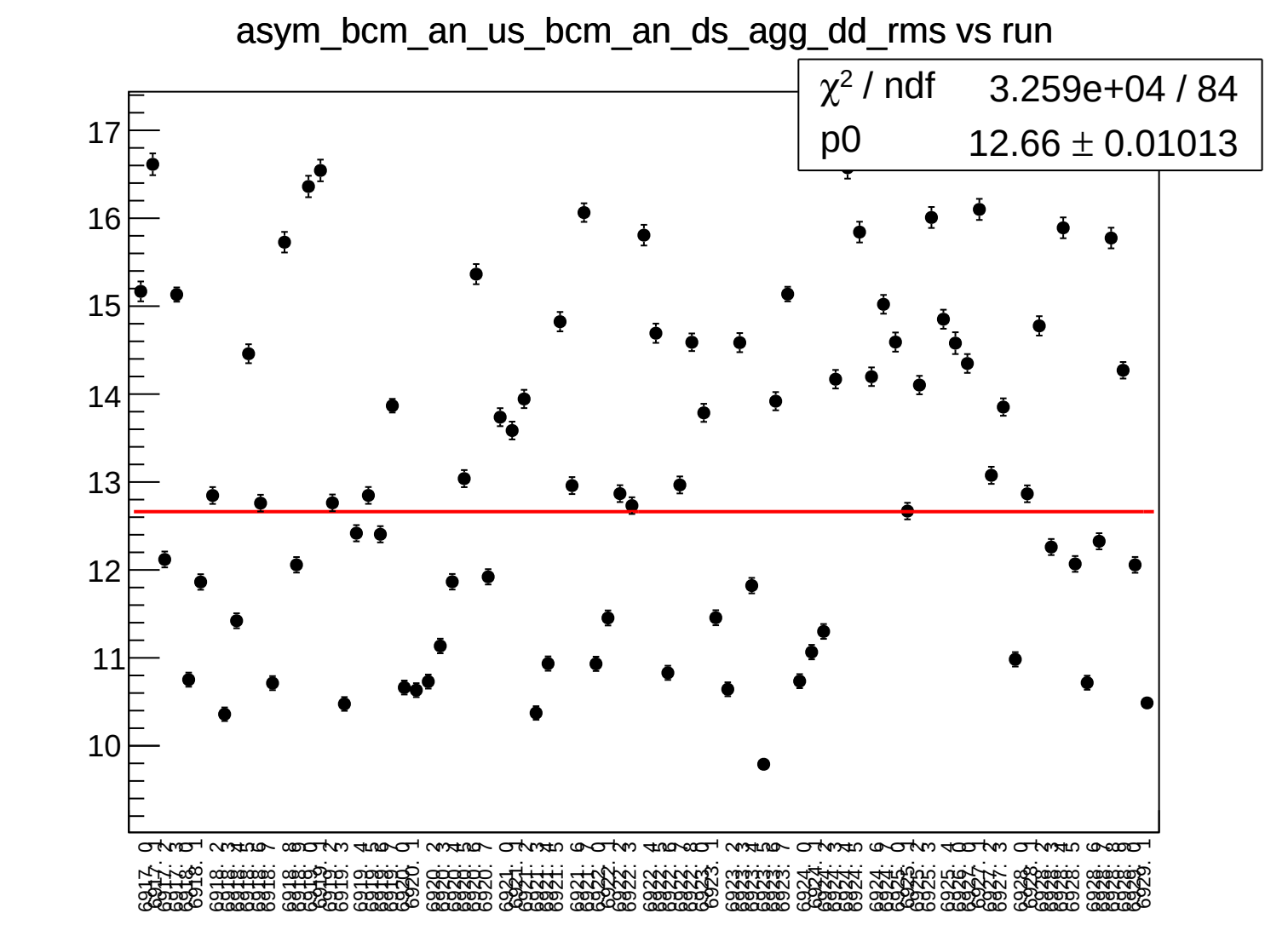

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.461e+04 / 84
p0 1488 ± 1.183
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

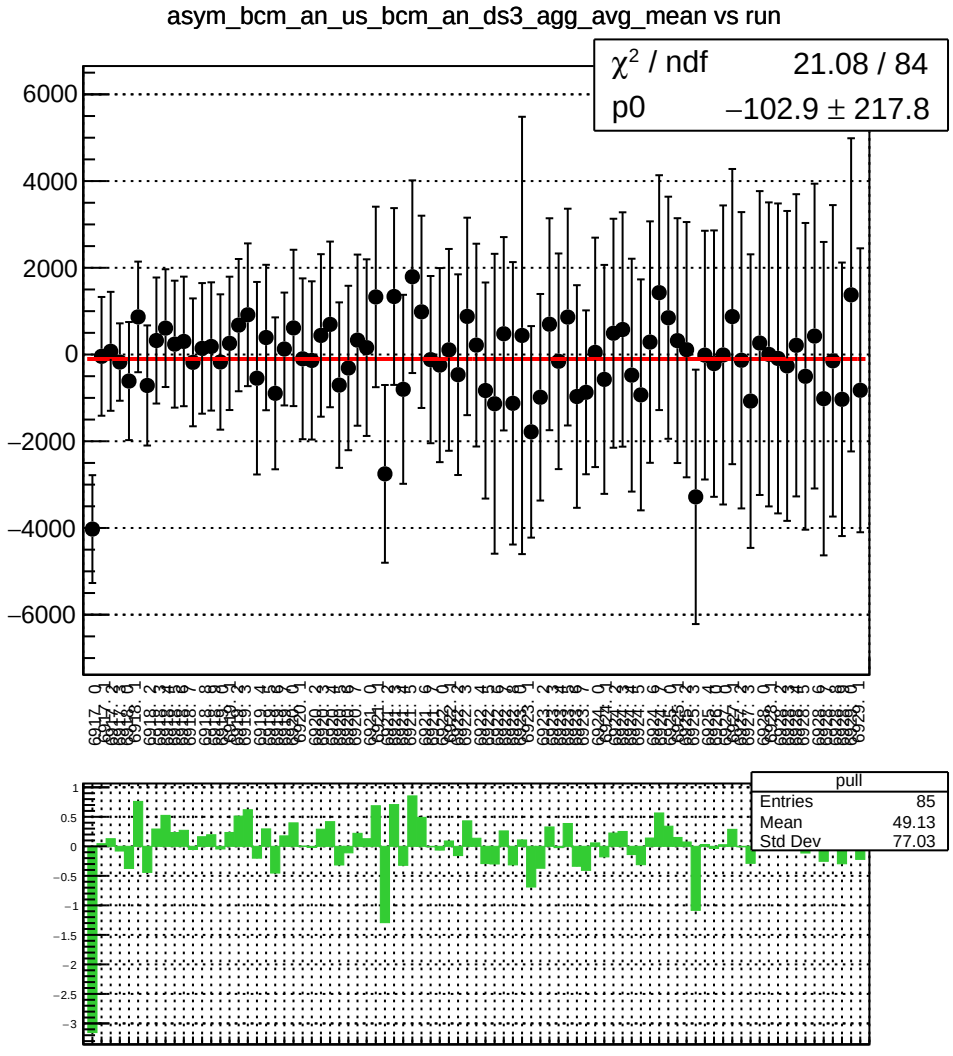

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.12 / 84
p0 −103.3 ± 216.9
pull
Entries 85
Mean 42.28
Std Dev 73.45
pull1D
Entries 85
Mean 0.006659
Std Dev 0.4984

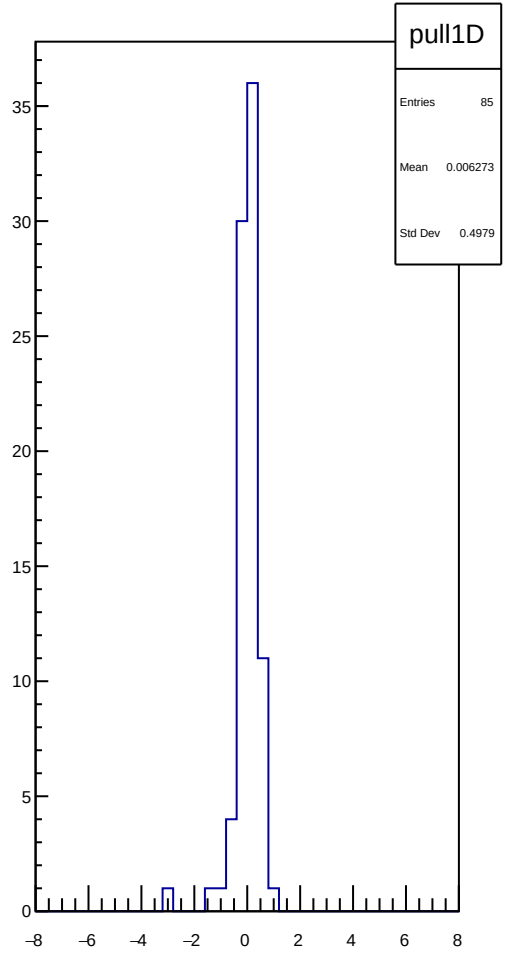

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.627e+05 / 84
p0 183.5 ± 0.1534
500
450
400
350
300
250
200
150
100

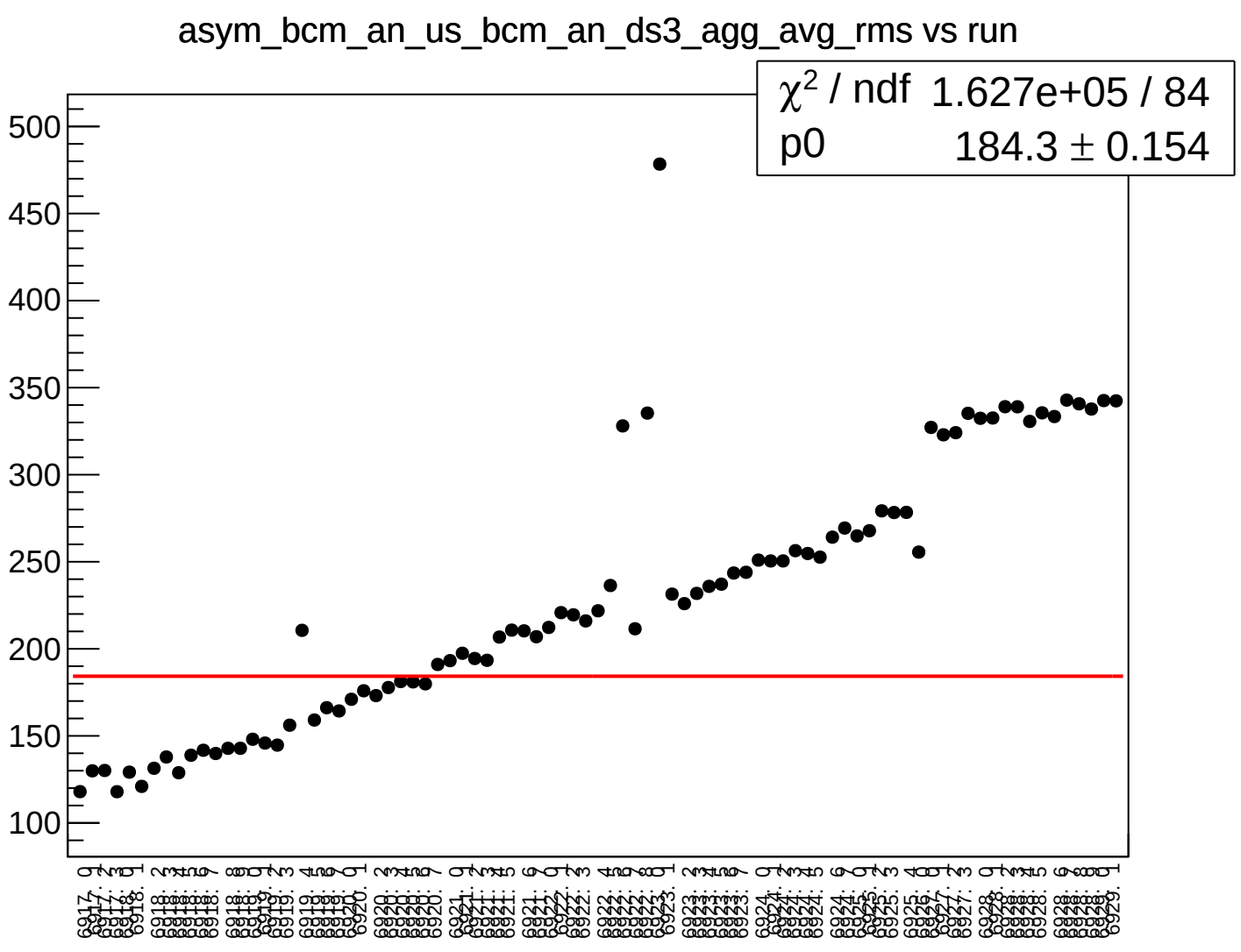

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 81.76 / 84
p0 −0.8539 ± 14.33
pull
Entries 85
Mean 4.333
Std Dev 72.14

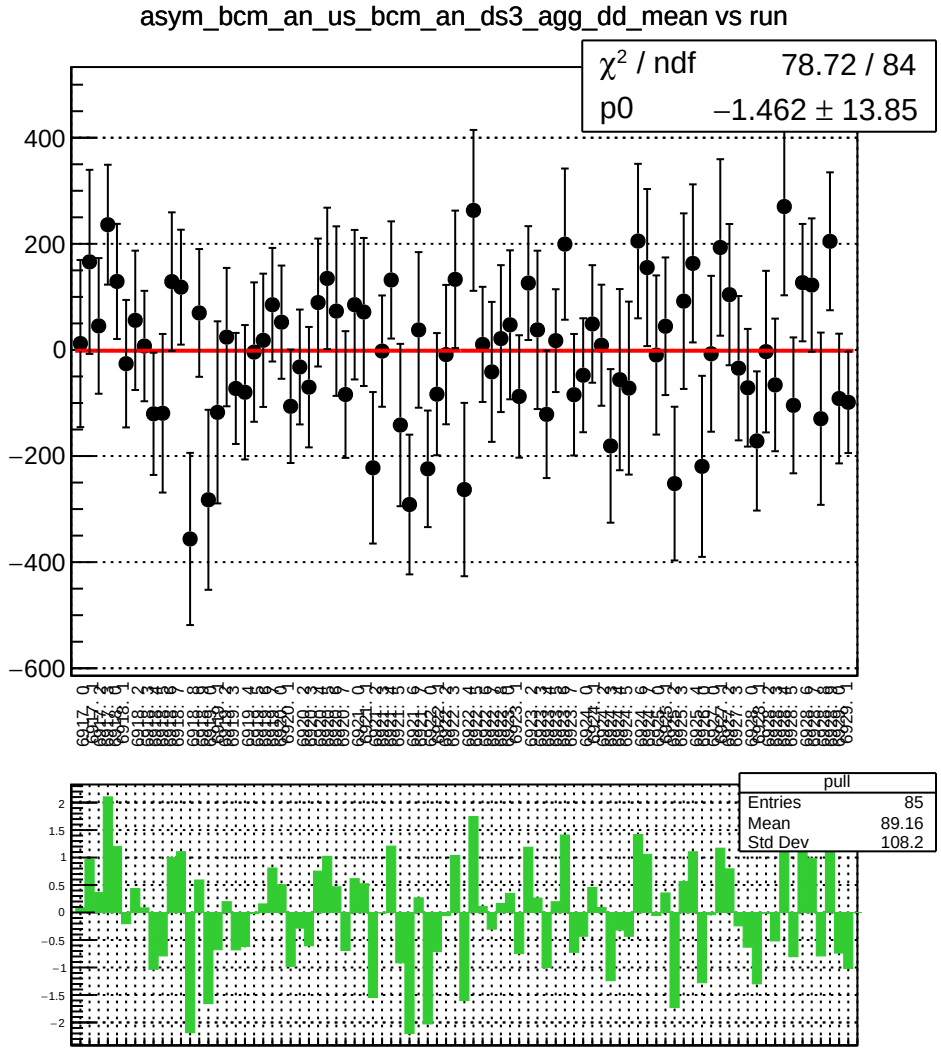

pull1D
Entries 85
Mean −0.01075
Std Dev 0.9807

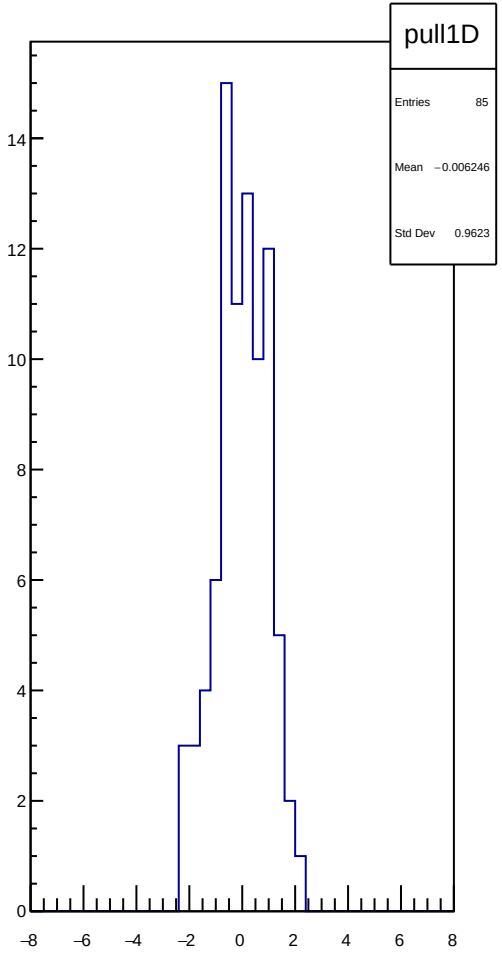

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.259e+04 / 84
p0 12.66 ± 0.01013
17
16
15
14
13
12
11
10

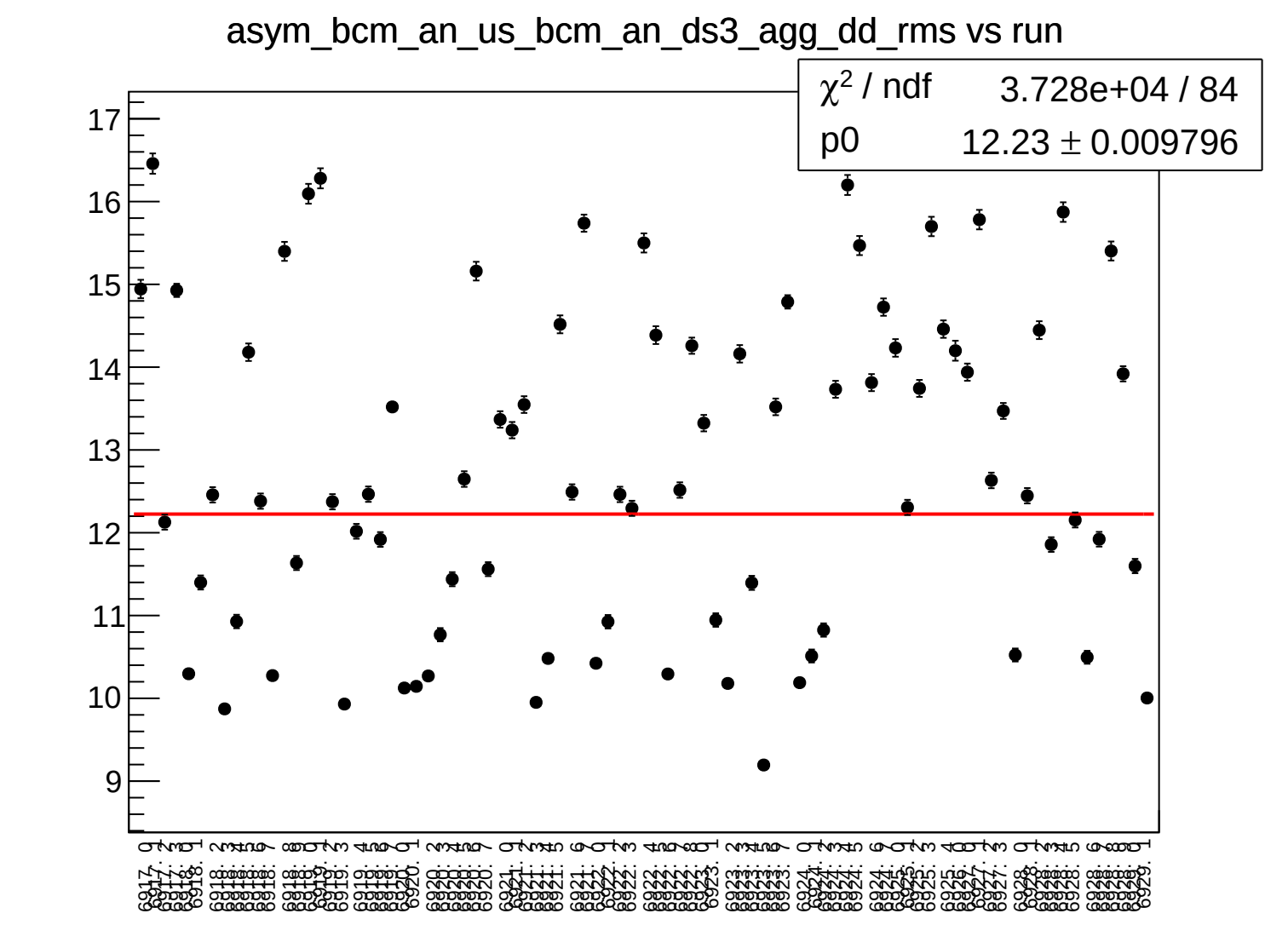

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 21.08 / 84
p0 −102.9 ± 217.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 49.13
Std Dev 77.03
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

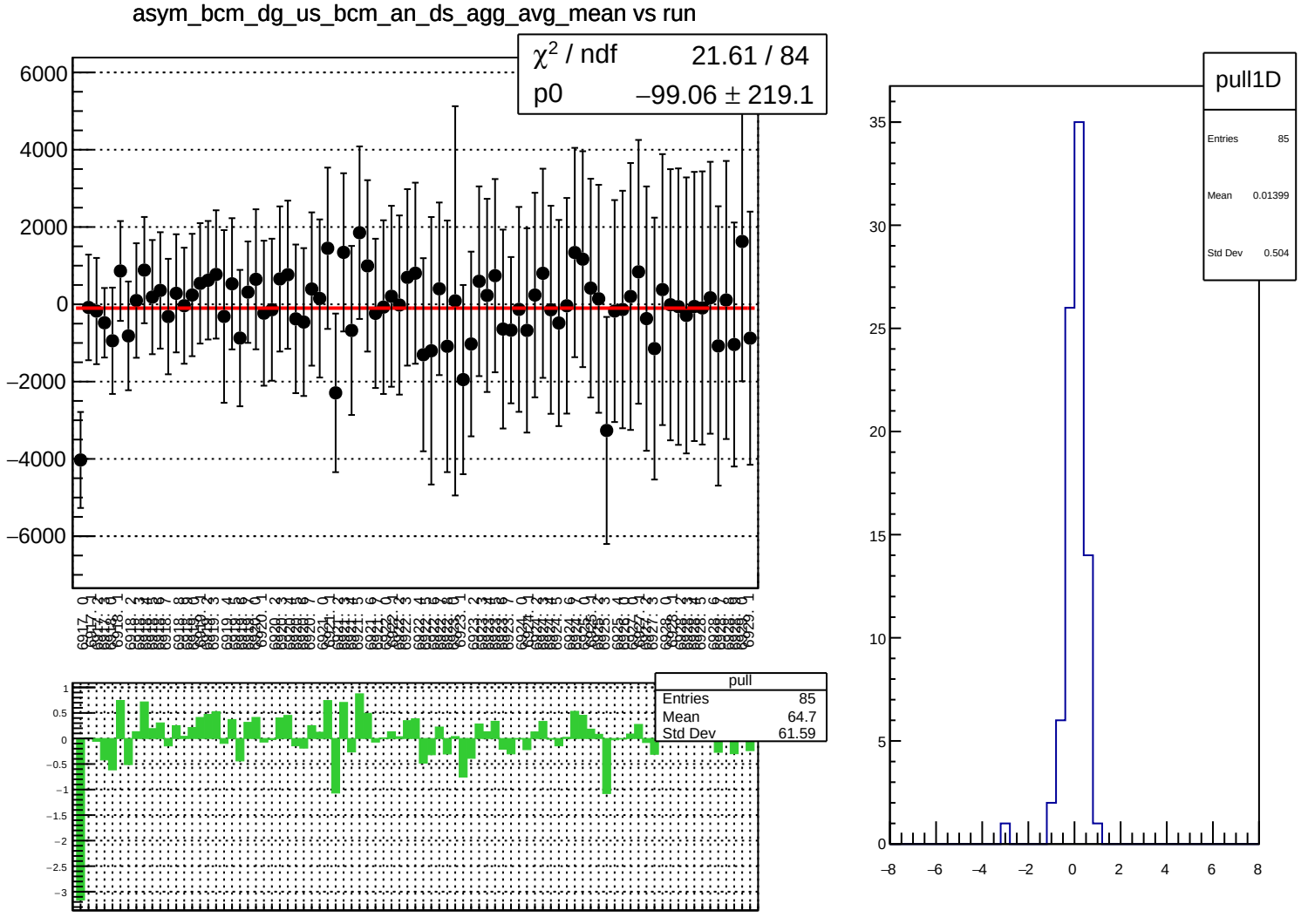

pull1D
Entries 85
Mean 0.006273
Std Dev 0.4979
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

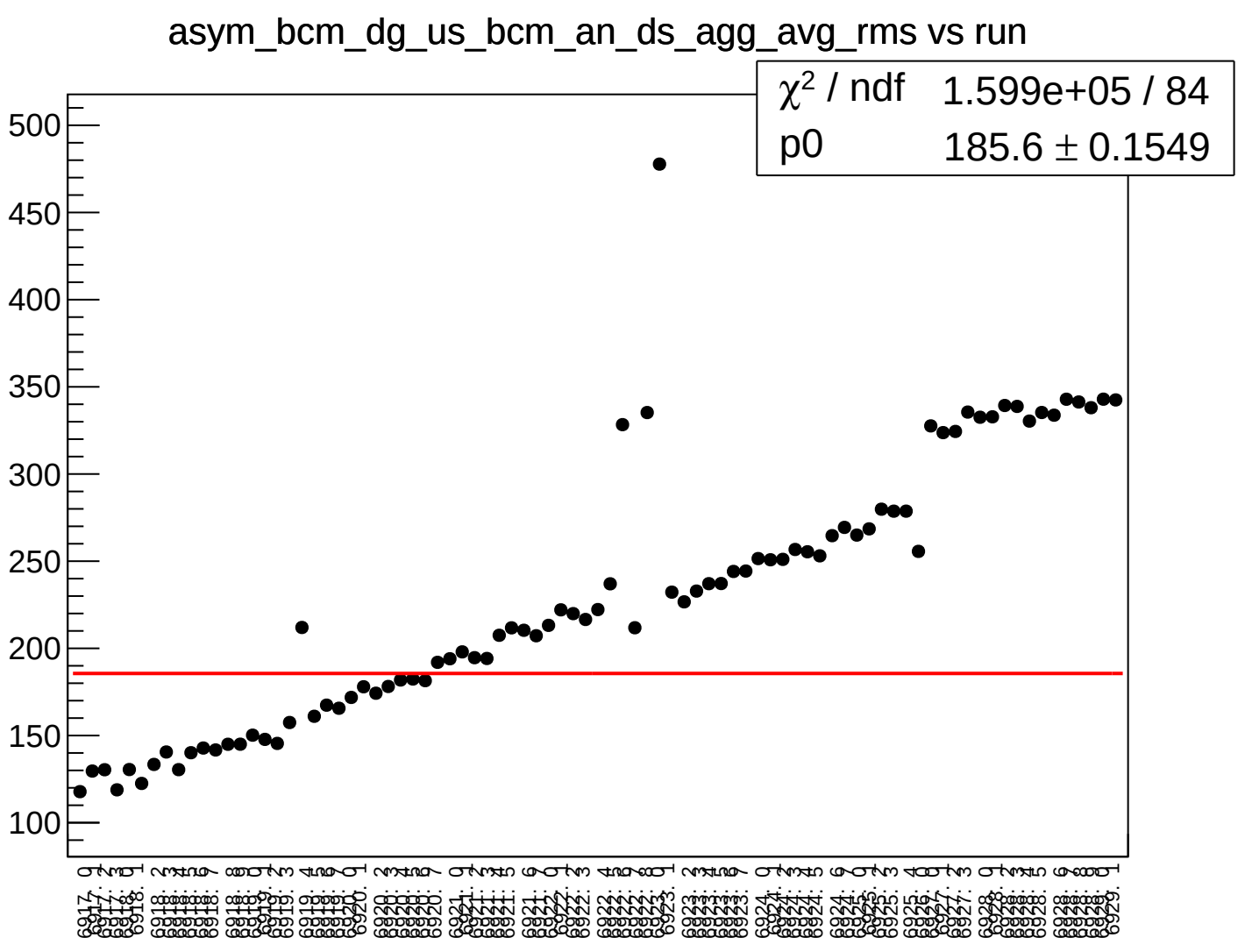

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.627e+05 / 84
p0 184.3 ± 0.154
500
450
400
350
300
250
200
150
100

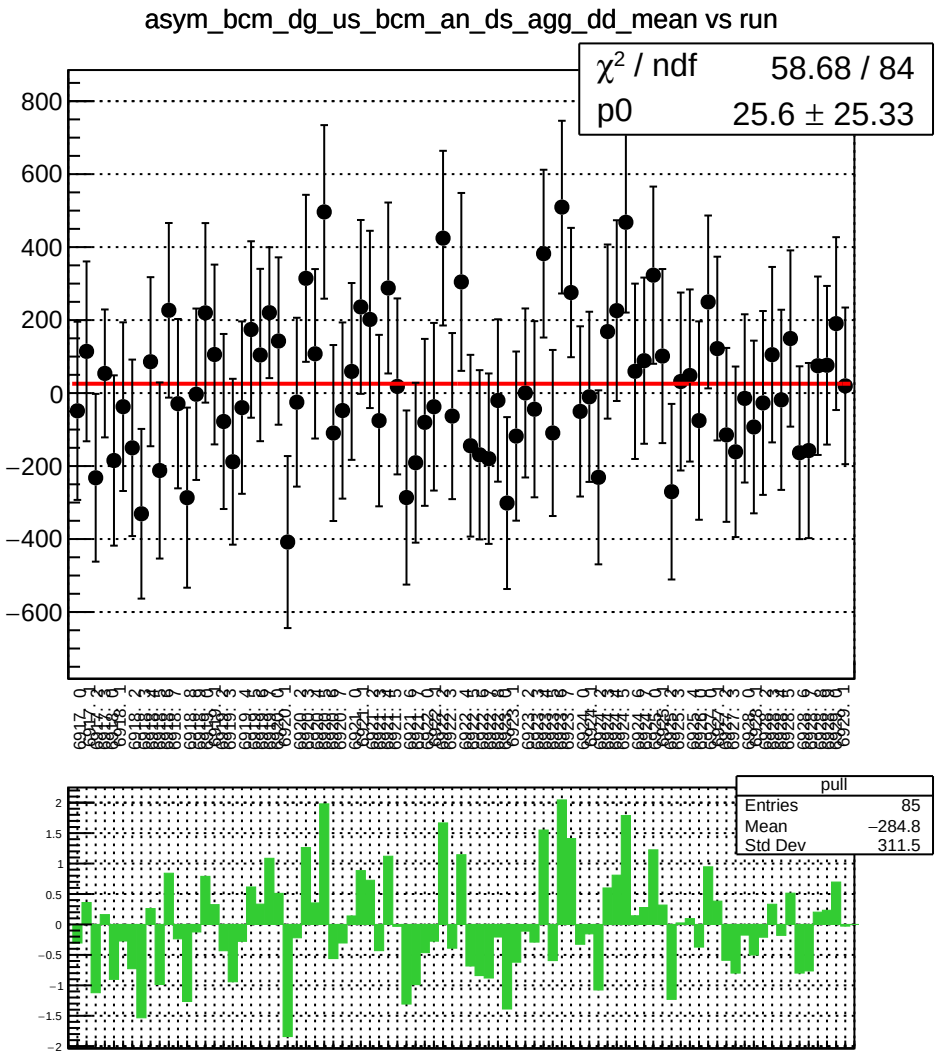

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 78.72 / 84
p0 −1.462 ± 13.85
pull
Entries 85
Mean 89.16
Std Dev 108.2

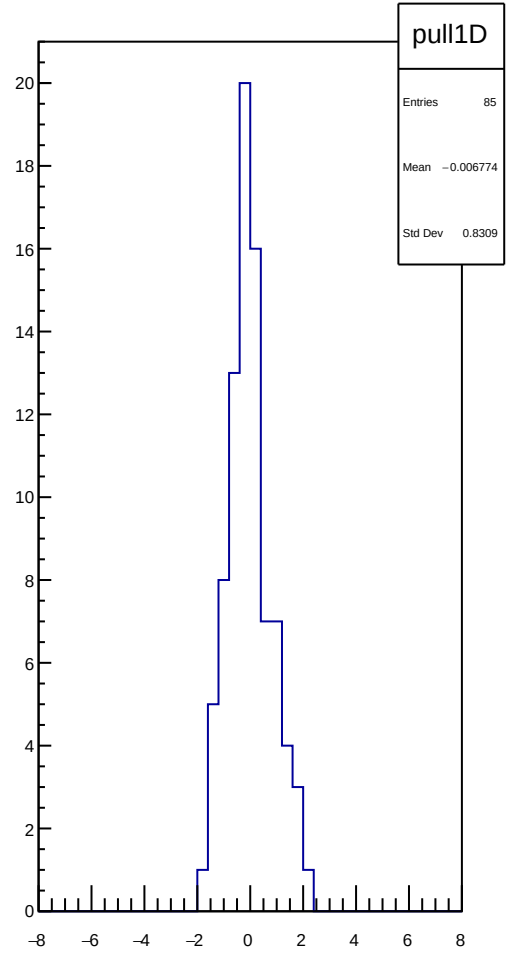

pull1D
Entries 85
Mean −0.006246
Std Dev 0.9623

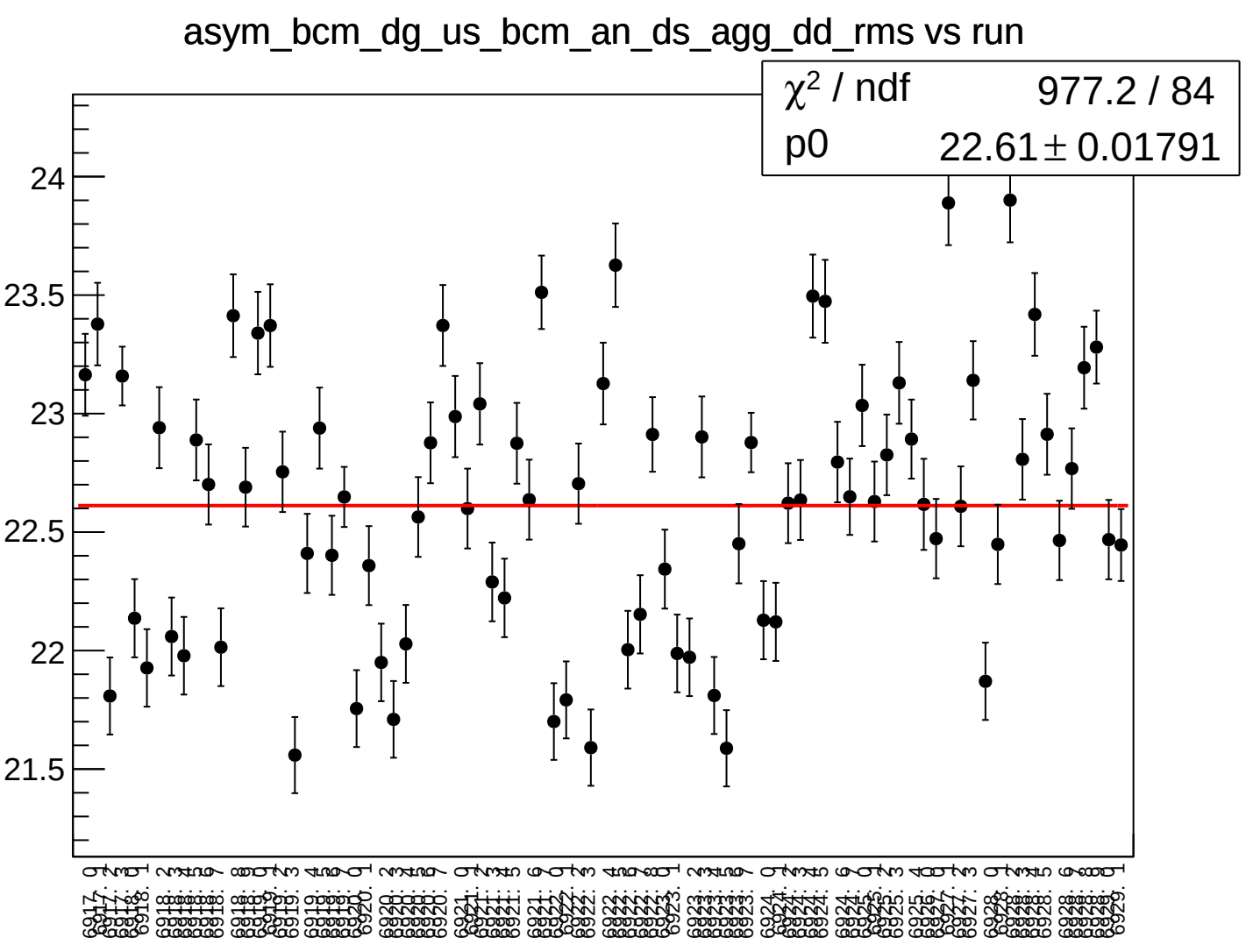

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.728e+04 / 84
p0 12.23 ± 0.009796
17
16
15
14
13
12
11
10
9

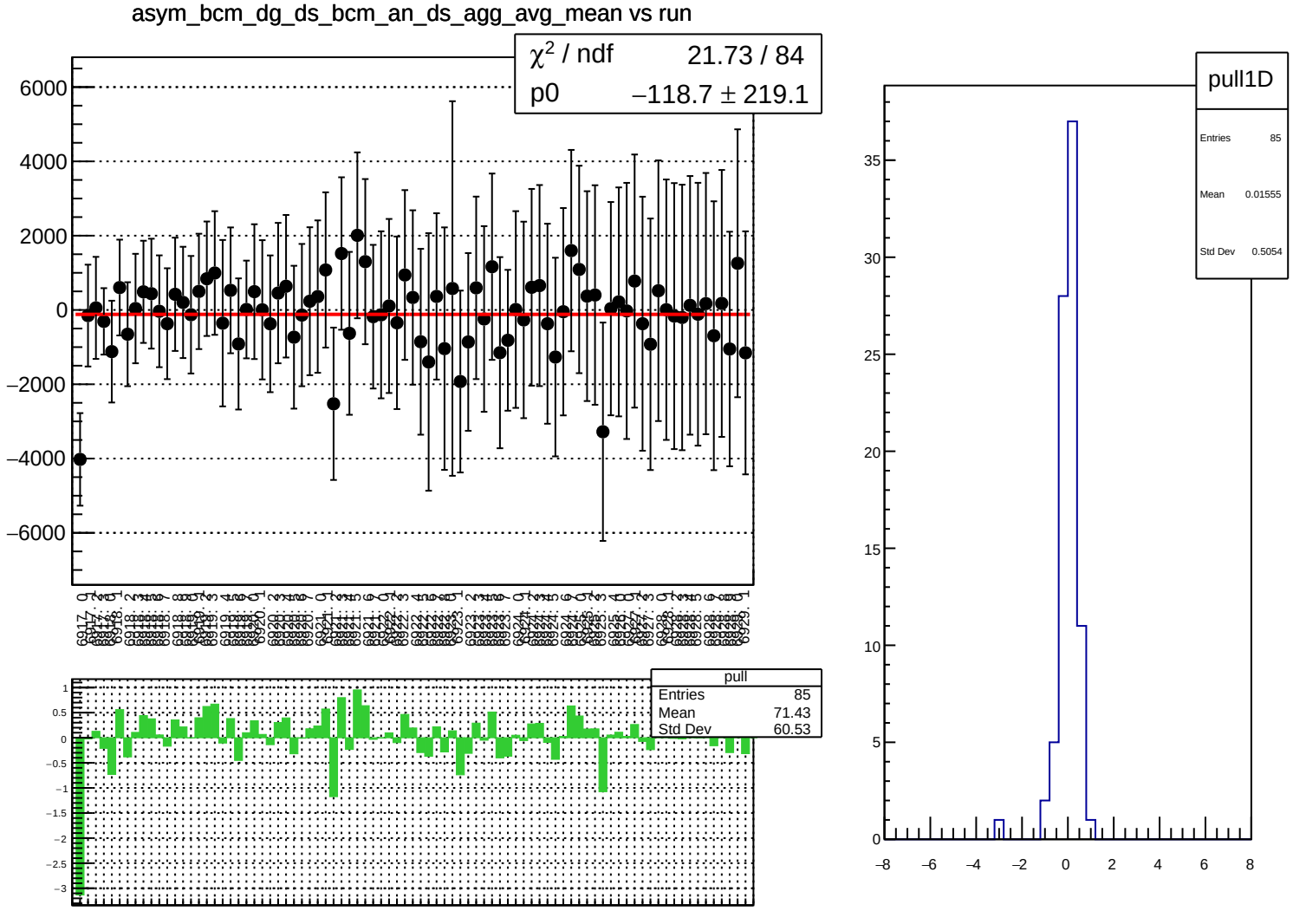

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.61 / 84
p0 −99.06 ± 219.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 64.7
Std Dev 61.59
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 85
Mean 0.01399
Std Dev 0.504
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

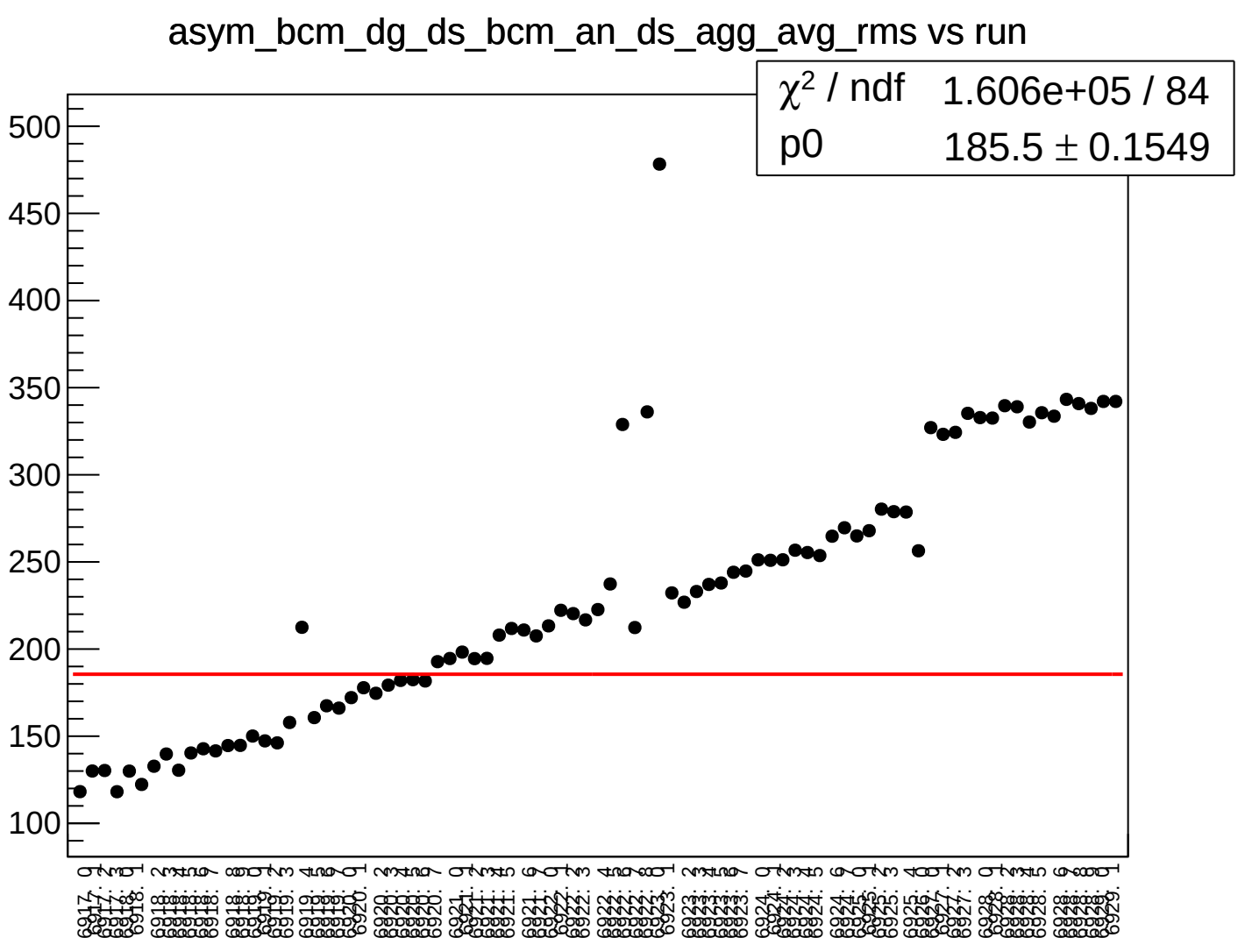

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.599e+05 / 84
p0 185.6 ± 0.1549
500
450
400
350
300
250
200
150
100

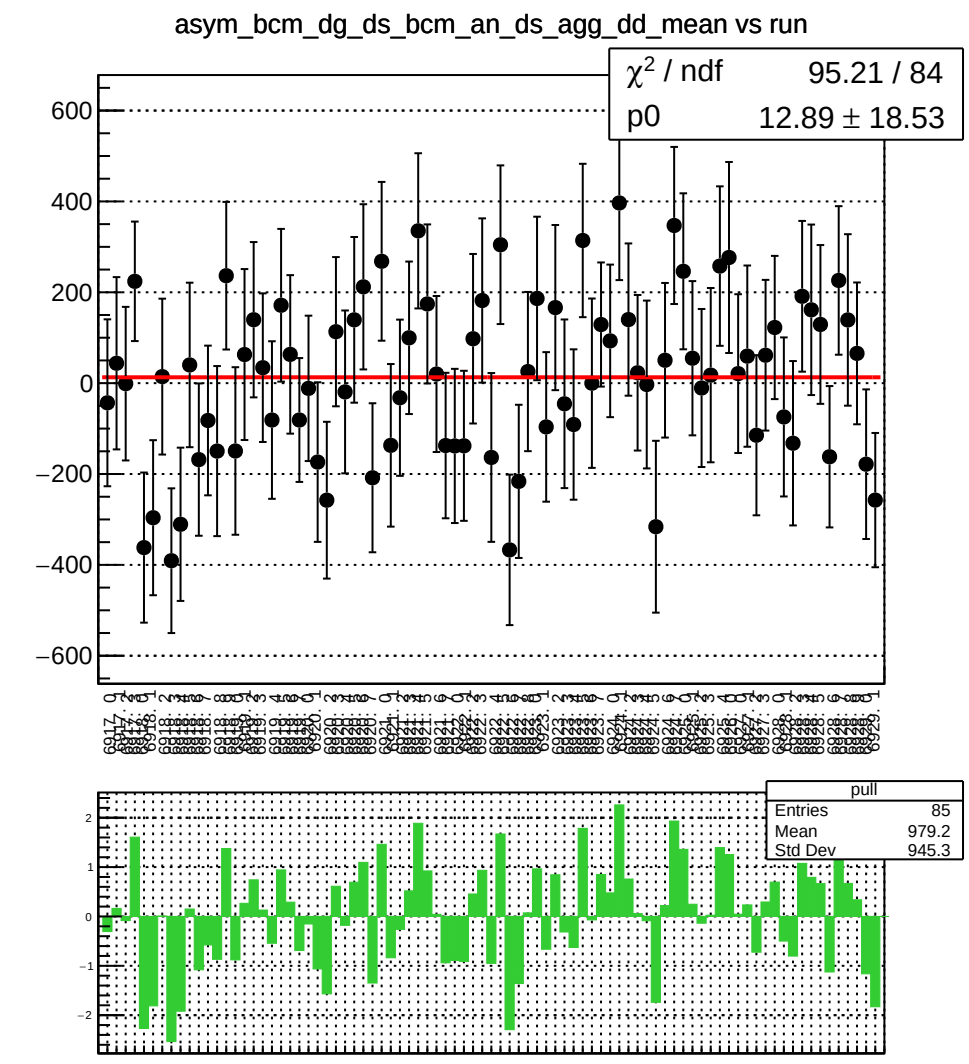

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 58.68 / 84
p0 25.6 ± 25.33
pull
Entries 85
Mean −284.8
Std Dev 311.5

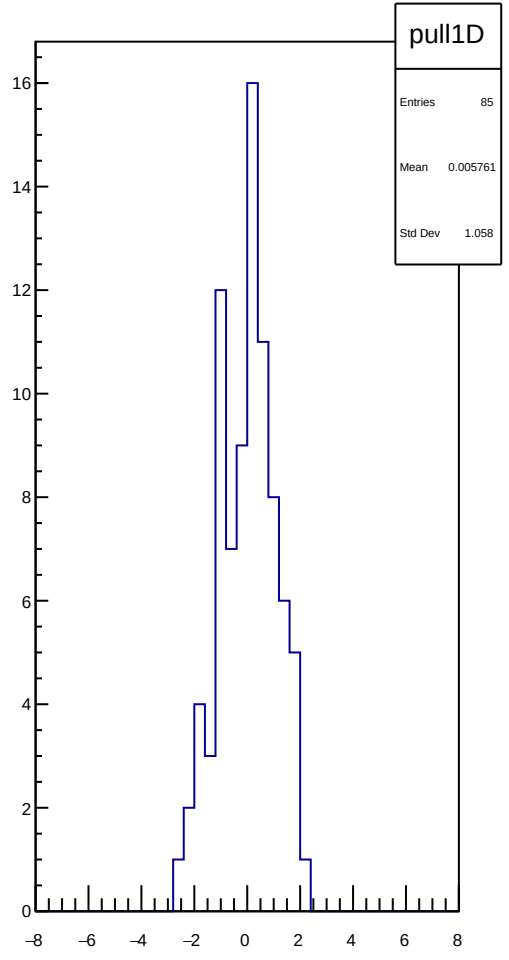

pull1D
Entries 85
Mean −0.006774
Std Dev 0.8309

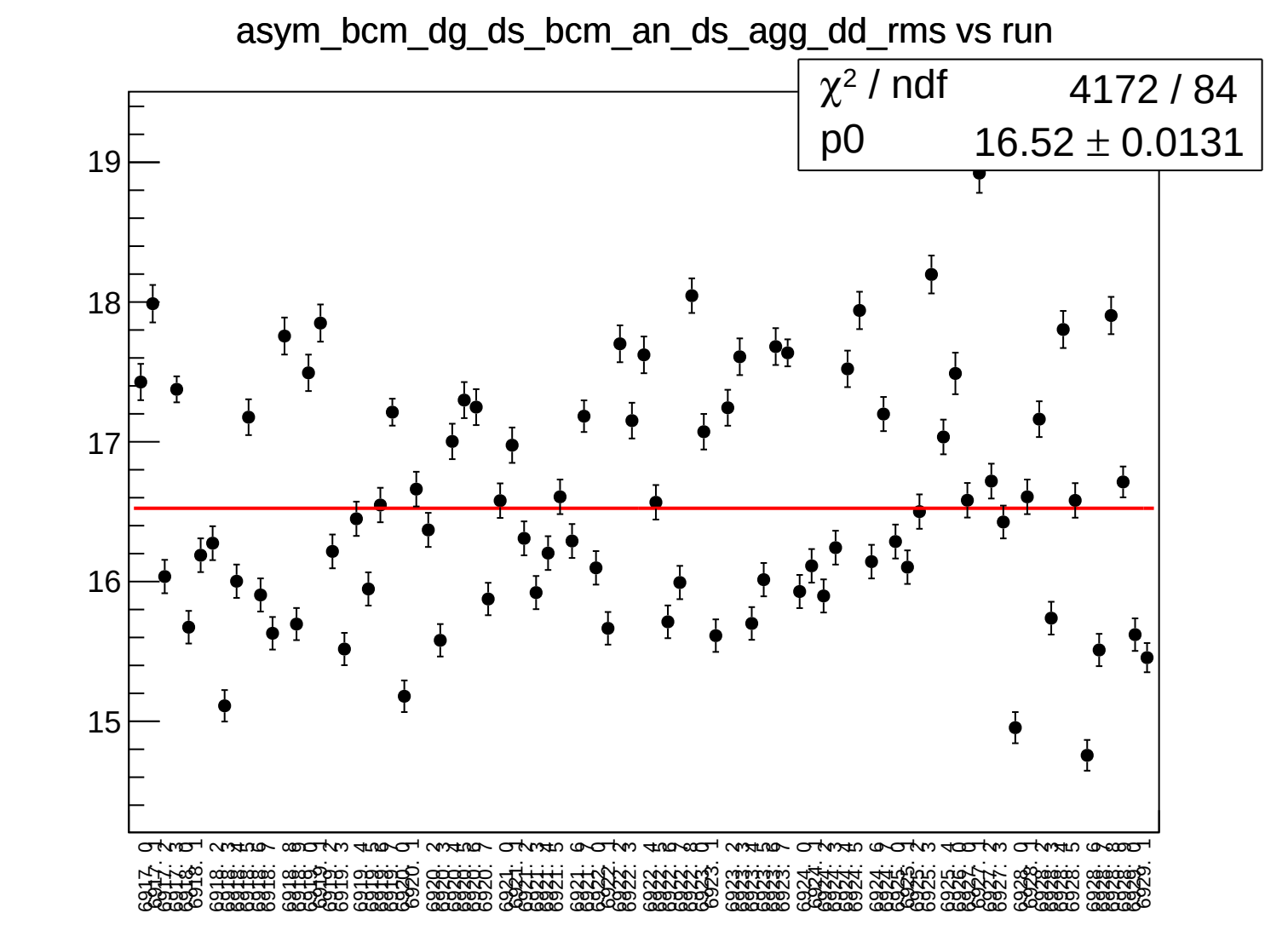

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 977.2 / 84
p0 22.61 ± 0.01791
24
23.5
23
22.5
22
21.5

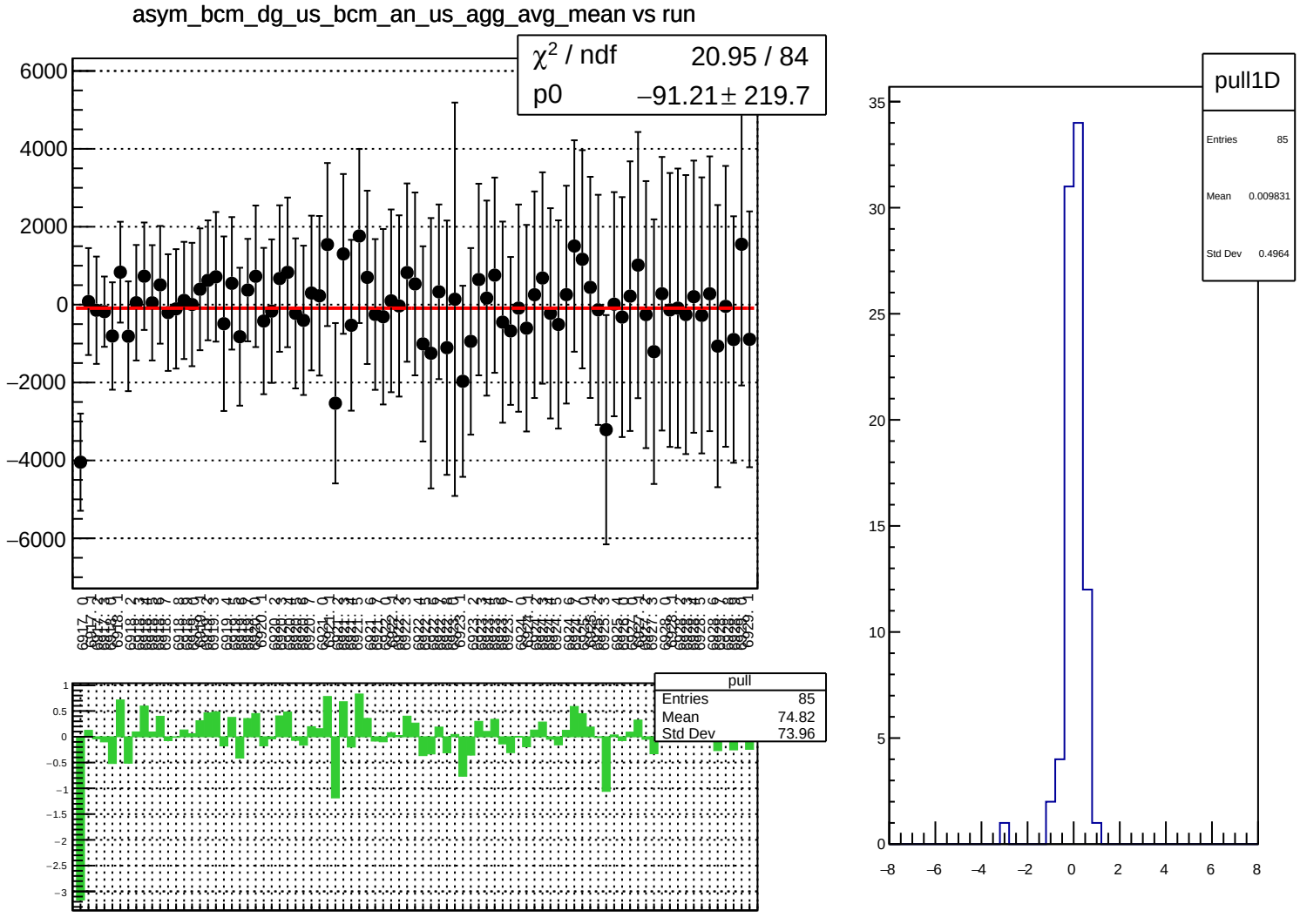

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.73 / 84
p0 −118.7 ± 219.1
pull
Entries 85
Mean 71.43
Std Dev 60.53
pull1D
Entries 85
Mean 0.01555
Std Dev 0.5054

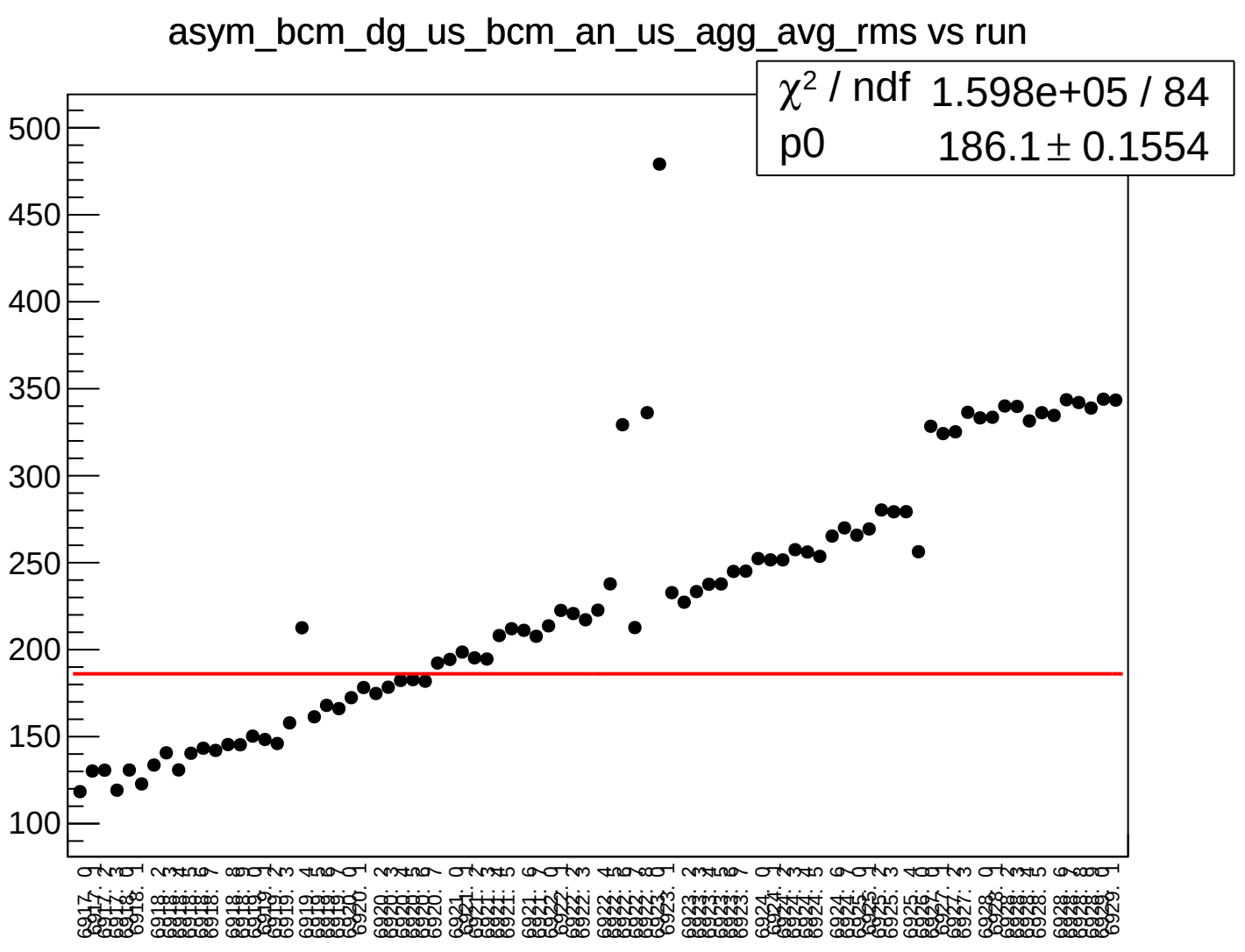

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.606e+05 / 84
p0 185.5 ± 0.1549
500
450
400
350
300
250
200
150
100

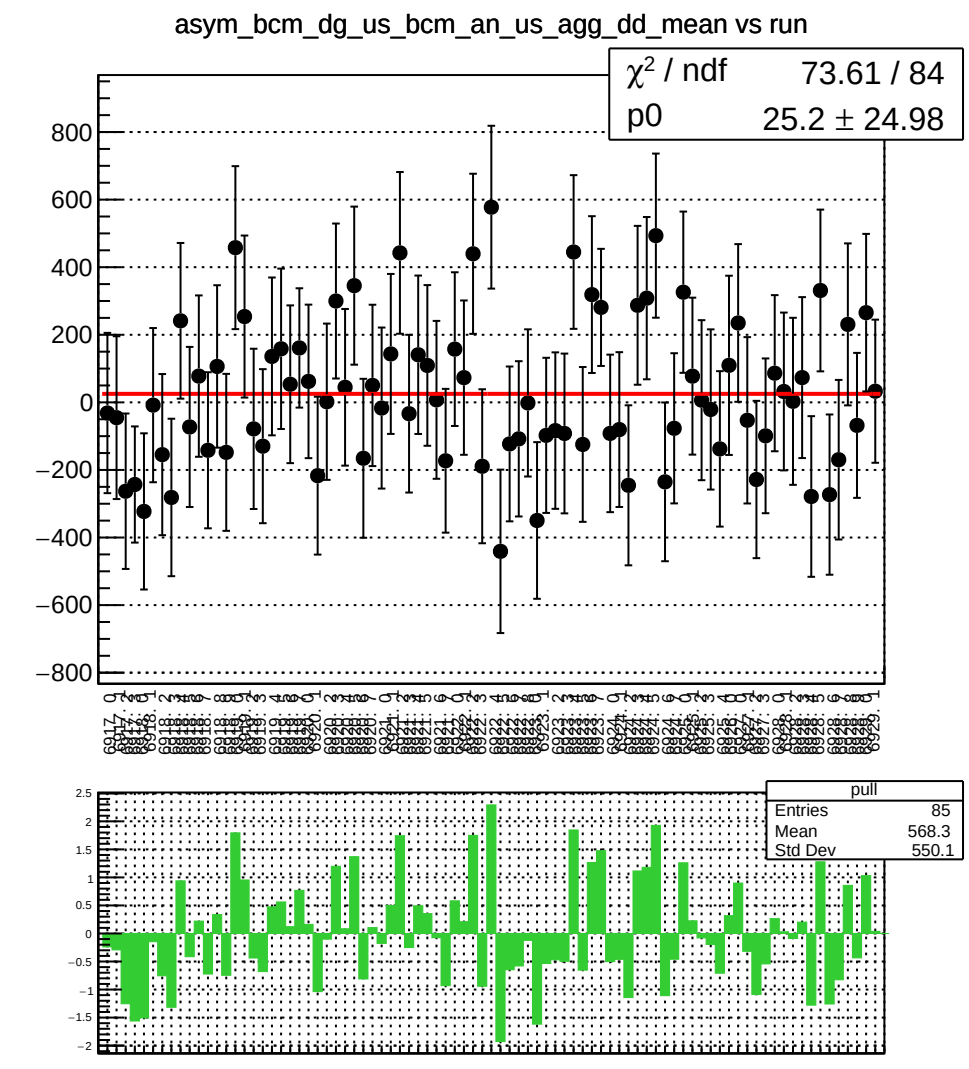

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.21 / 84
p0 12.89 ± 18.53
pull
Entries 85
Mean 979.2
Std Dev 945.3

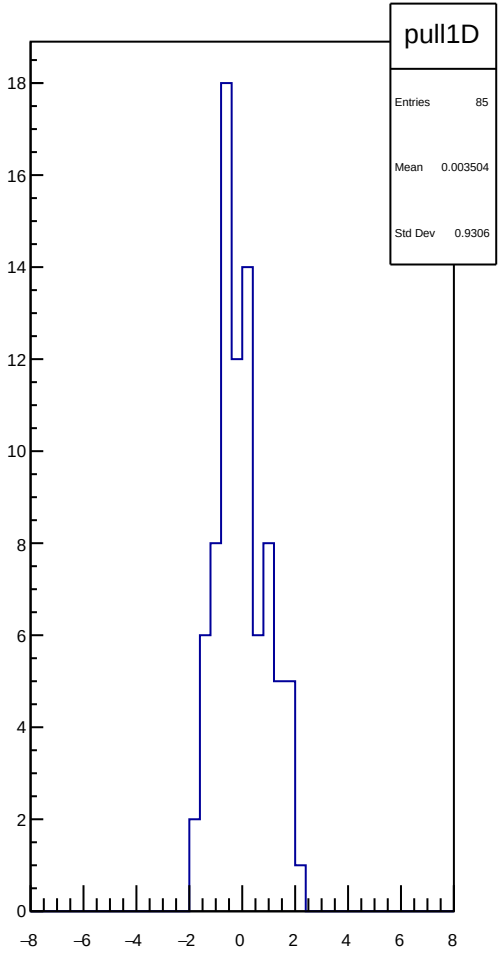

pull1D
Entries 85
Mean 0.005761
Std Dev 1.058

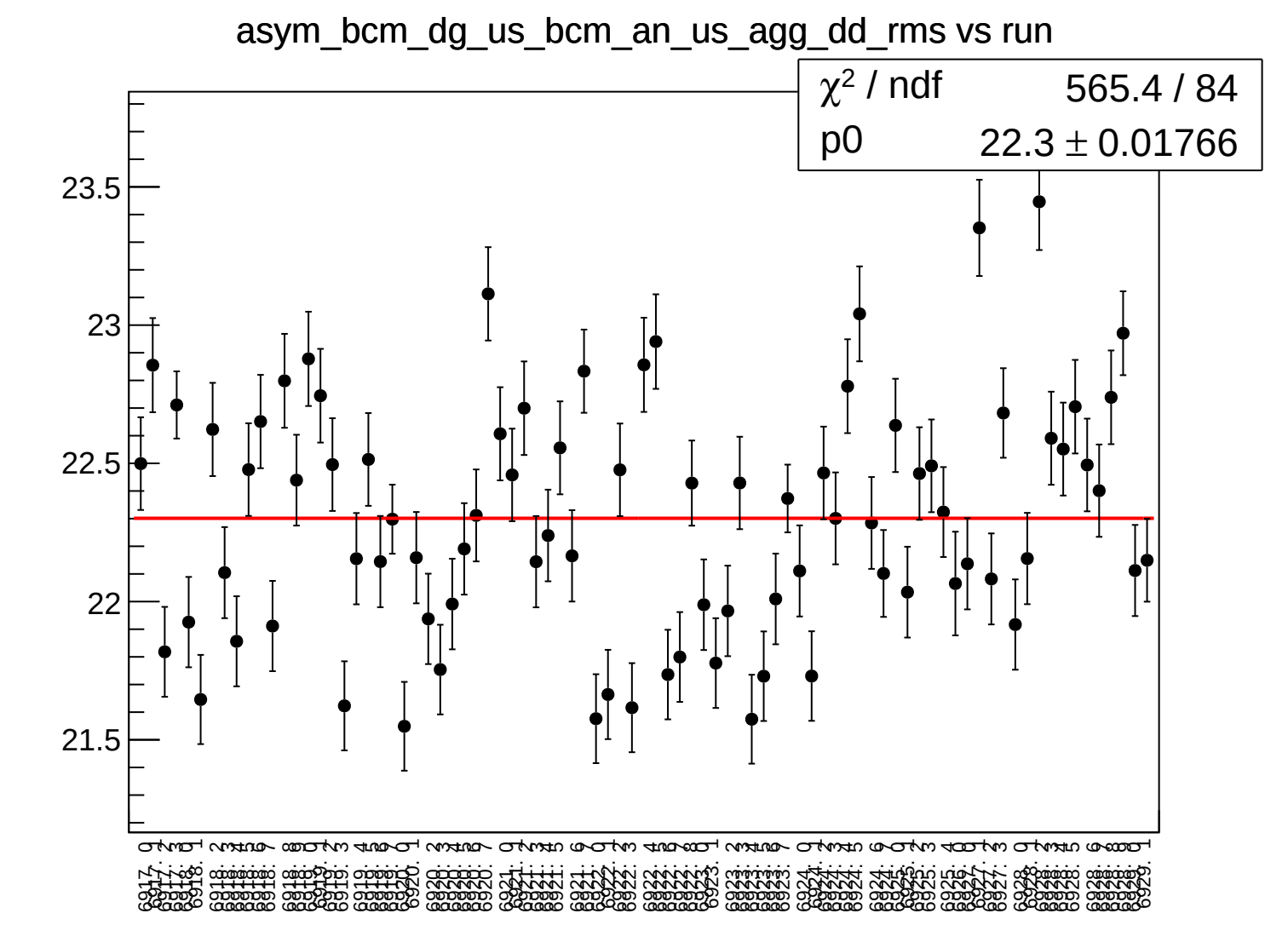

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4172 / 84
p0 16.52 ± 0.0131
19
18
17
16
15

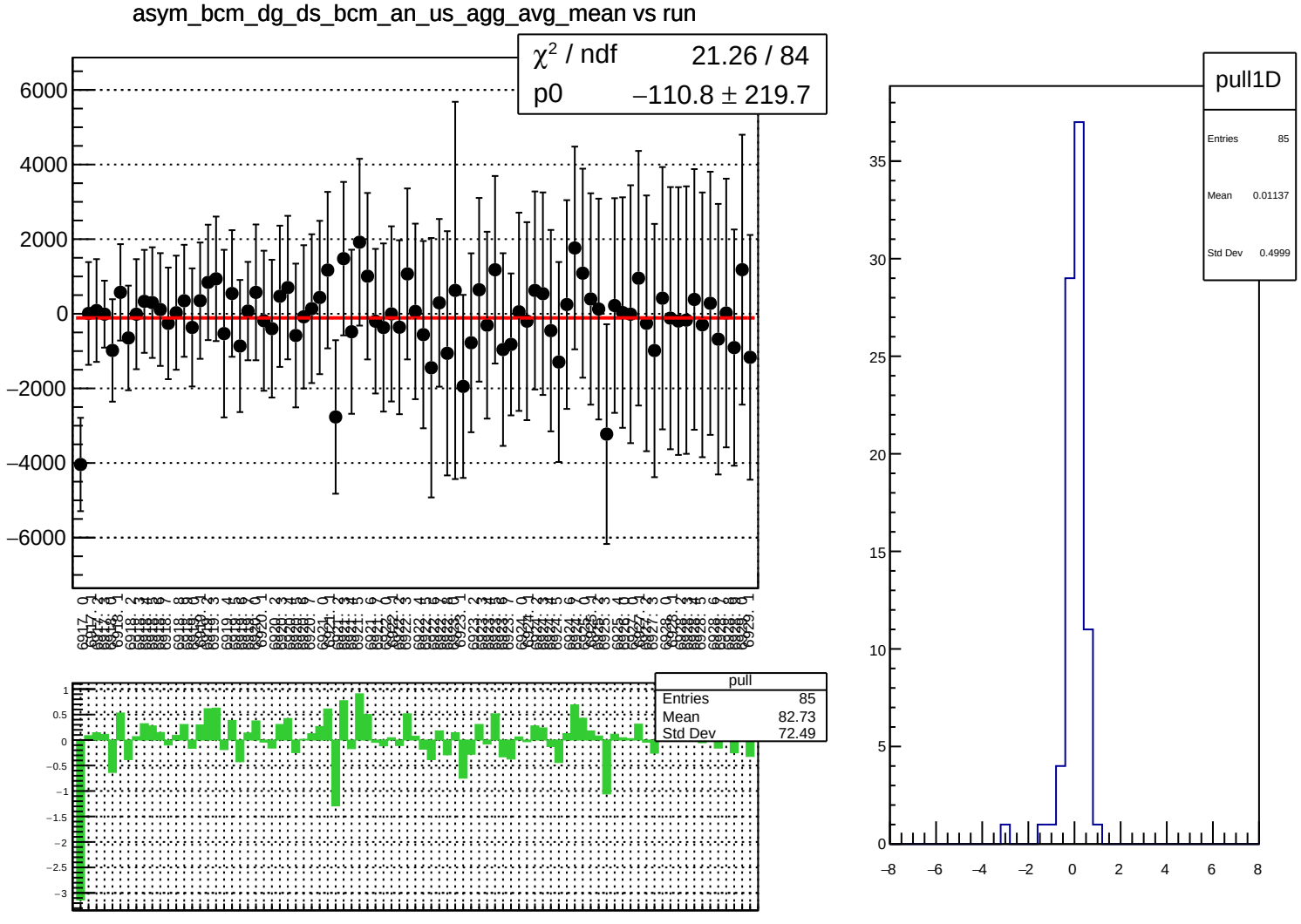

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.95 / 84
p0 −91.21 ± 219.7
pull
Entries 85
Mean 74.82
Std Dev 73.96
pull1D
Entries 85
Mean 0.009831
Std Dev 0.4964

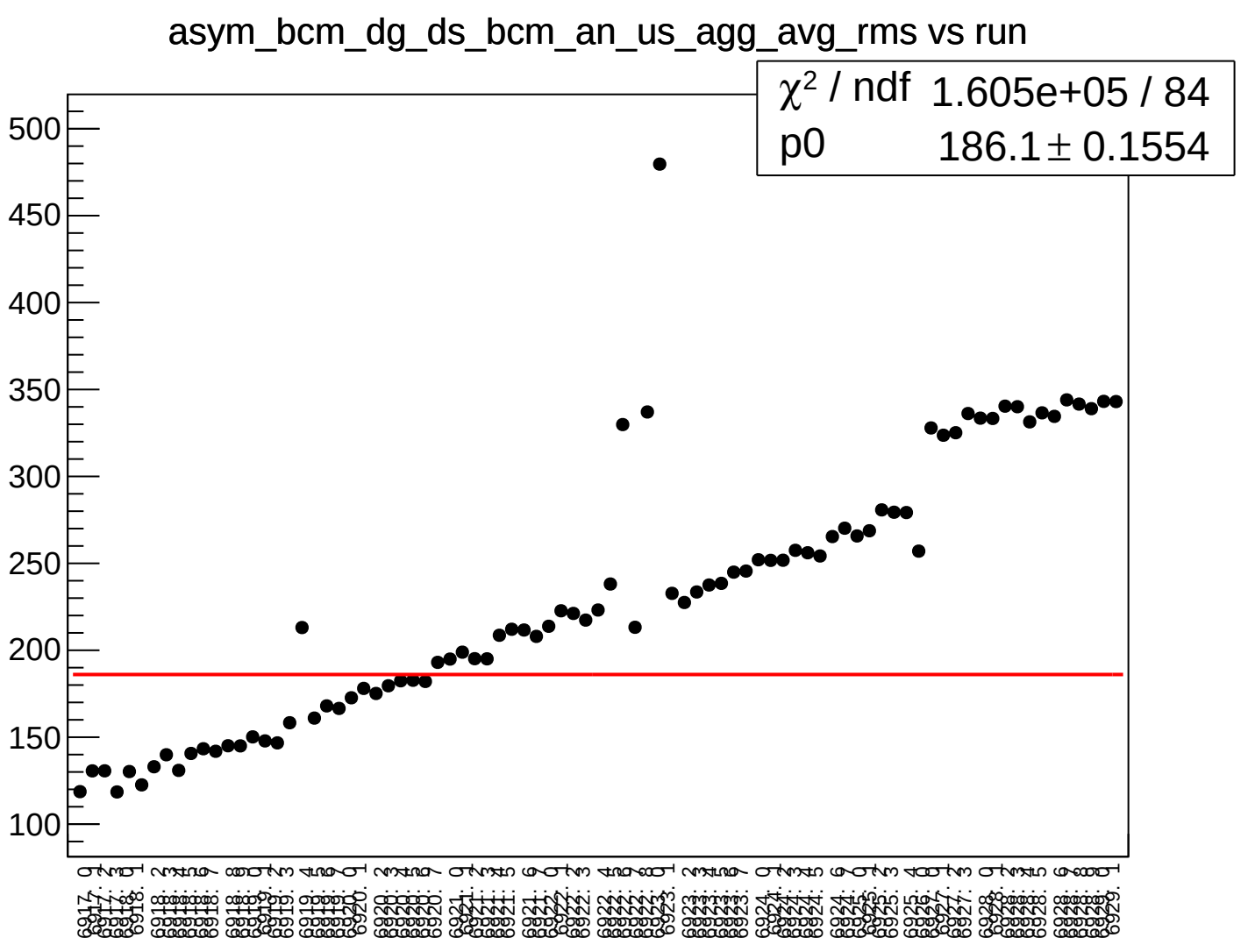

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.598e+05 / 84
p0 186.1 ± 0.1554
500
450
400
350
300
250
200
150
100

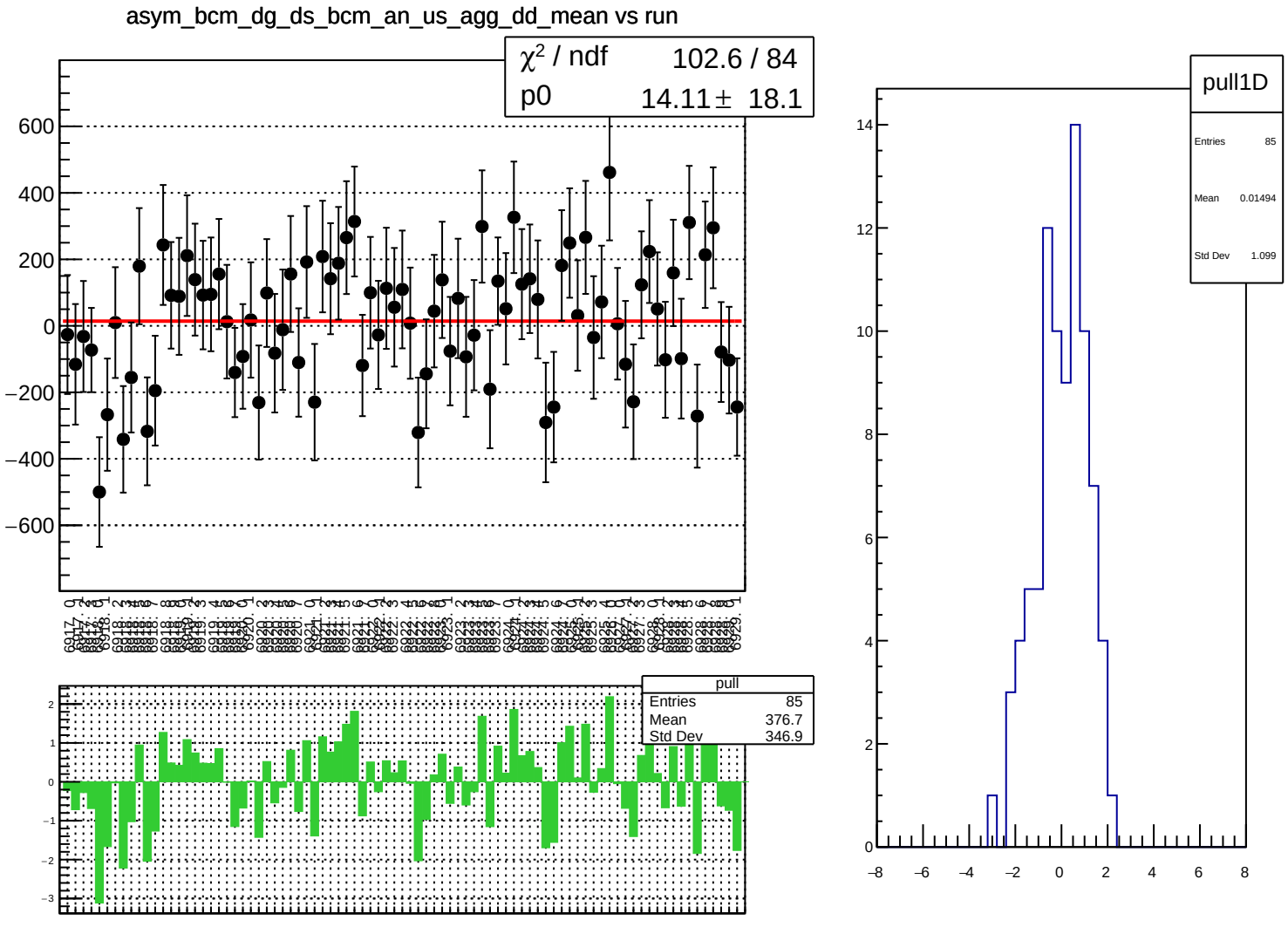

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 73.61 / 84
p0 25.2 ± 24.98
pull
Entries 85
Mean 568.3
Std Dev 550.1

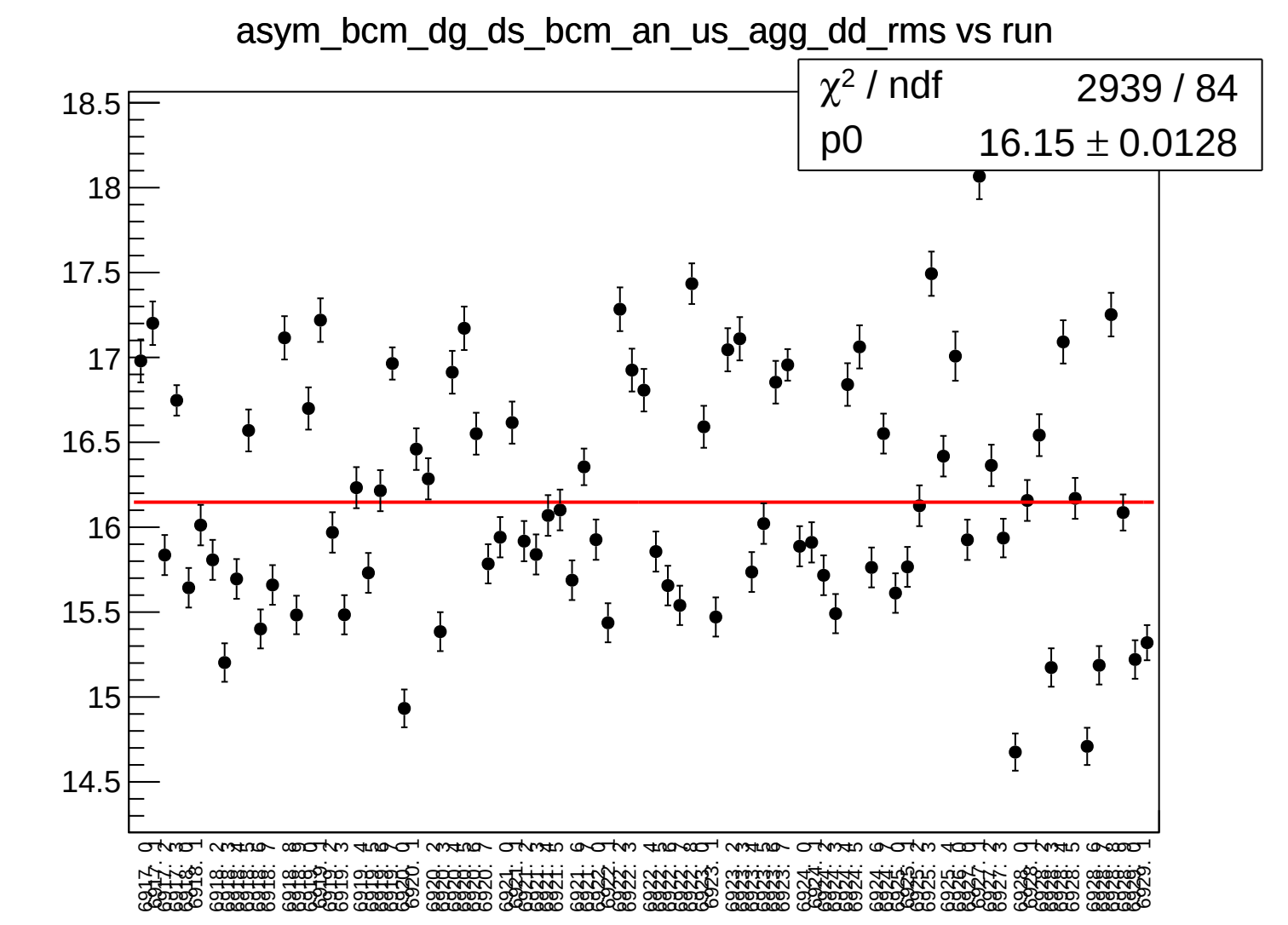

pull1D
Entries 85
Mean 0.003504
Std Dev 0.9306

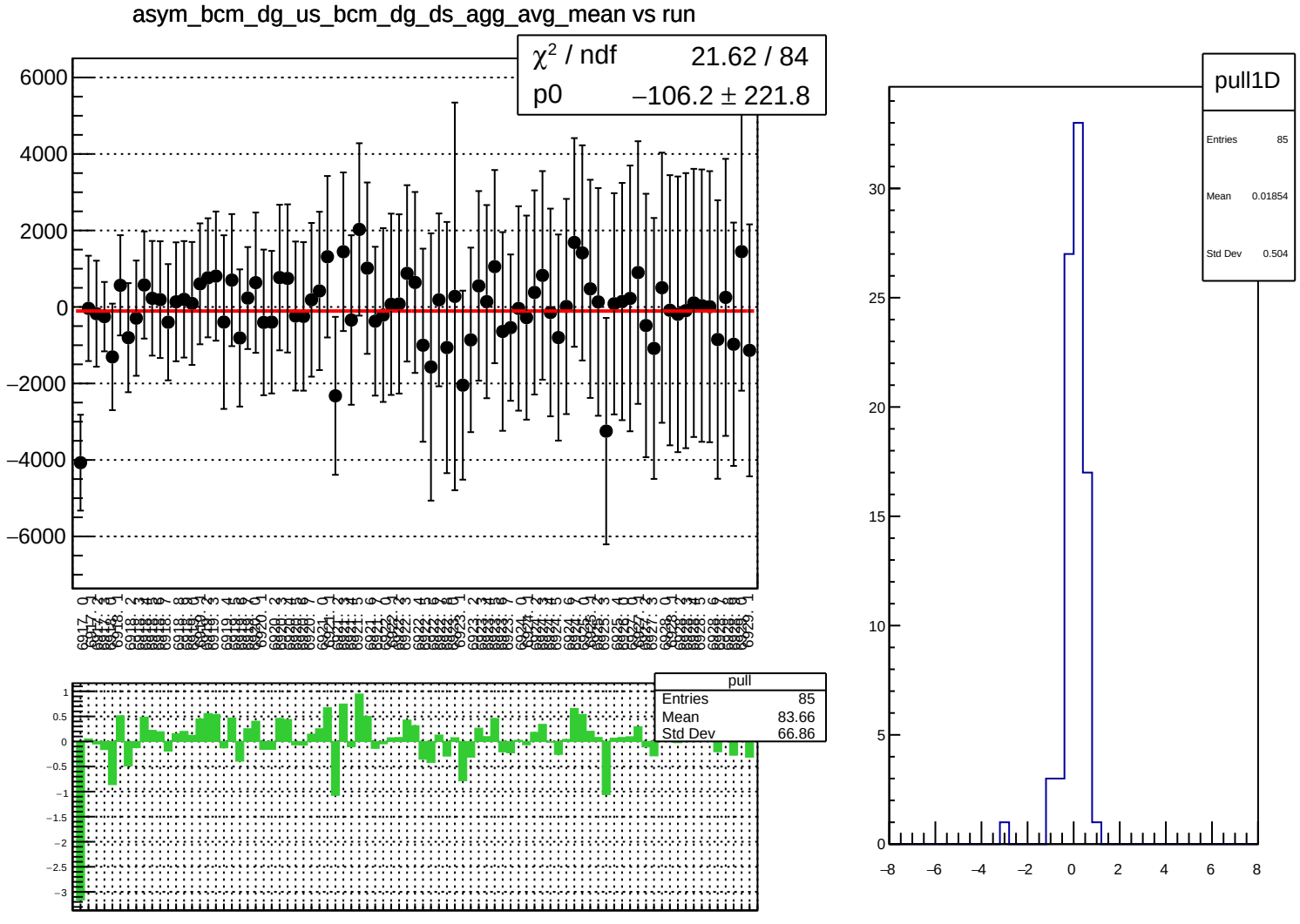

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 565.4 / 84
p0 22.3 ± 0.01766
23.5
23
22.5
22
21.5

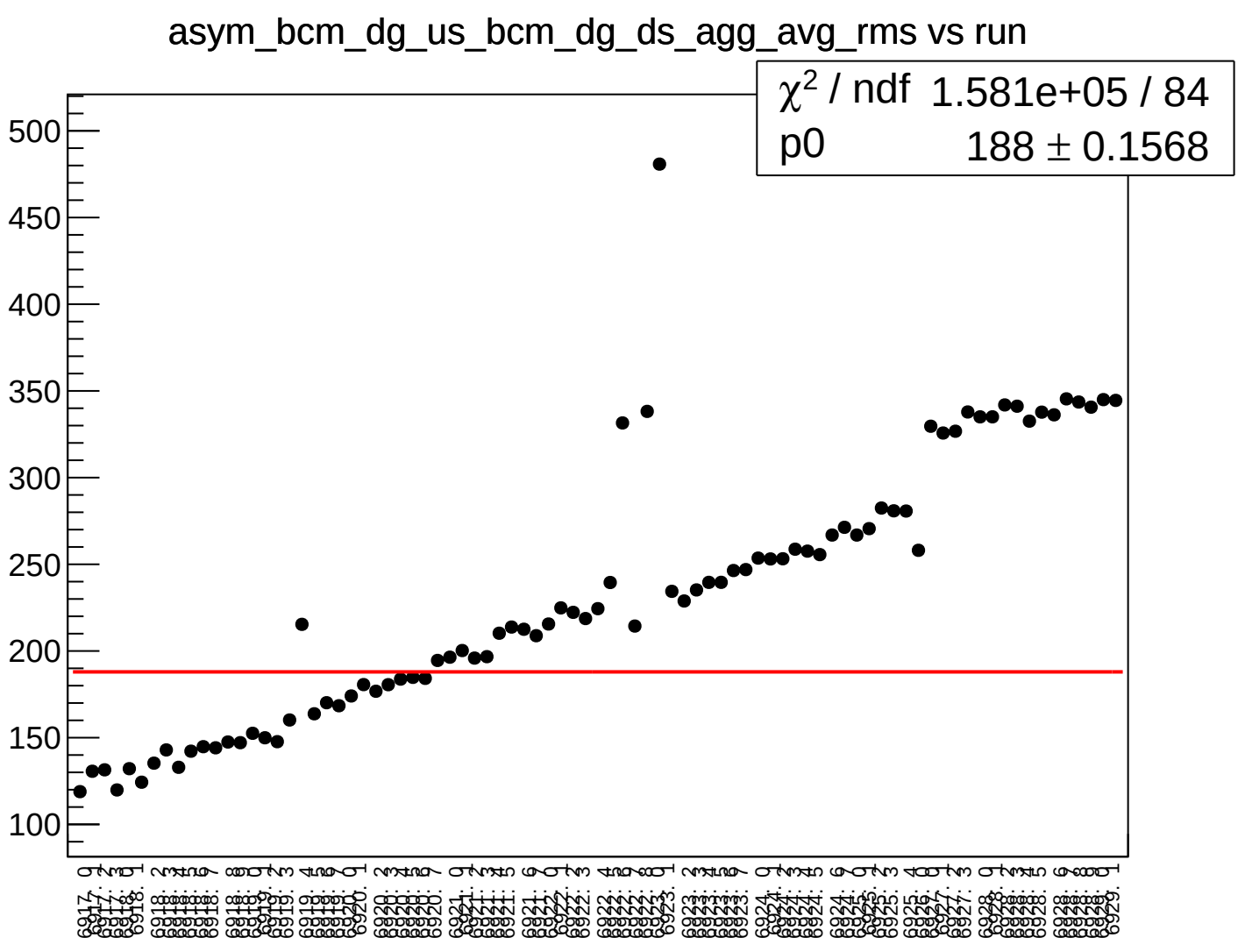

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.26 / 84
p0 −110.8 ± 219.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 82.73
Std Dev 72.49
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 85
Mean 0.01137
Std Dev 0.4999
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

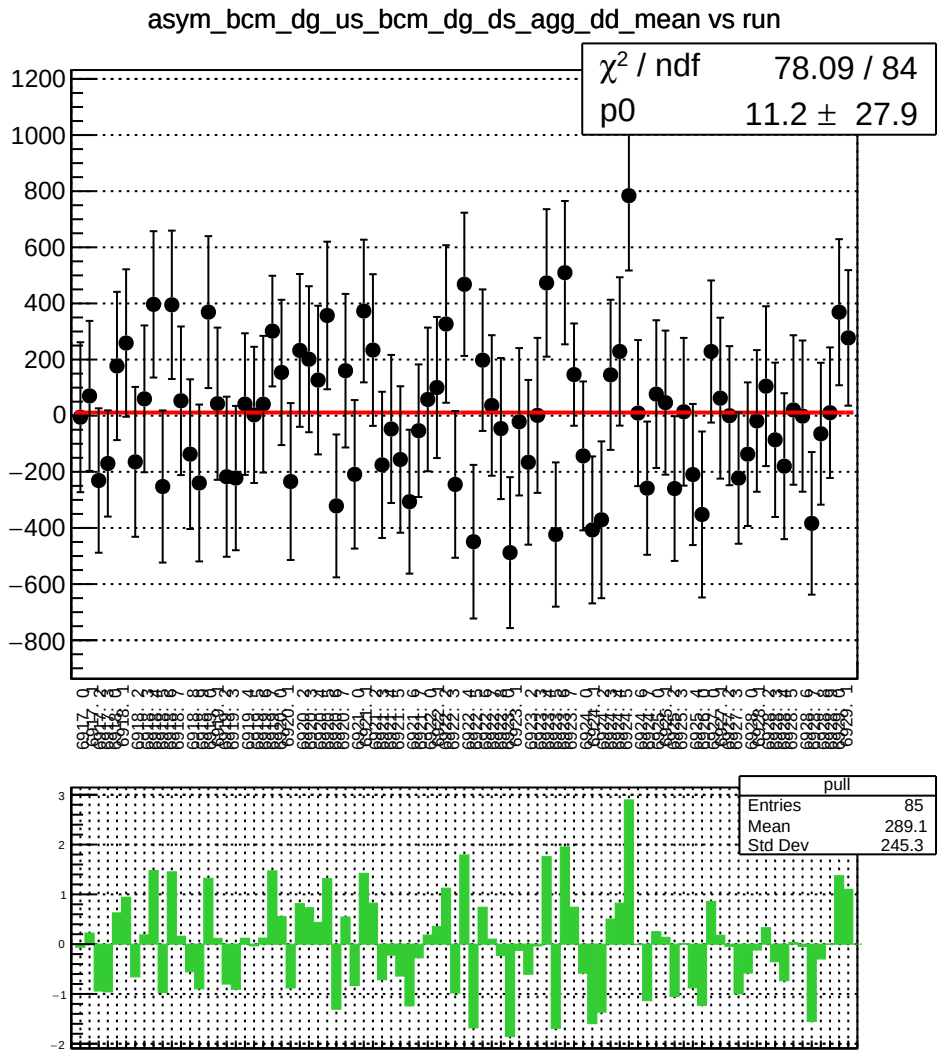

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.605e+05 / 84
p0 186.1 ± 0.1554
500
450
400
350
300
250
200
150
100

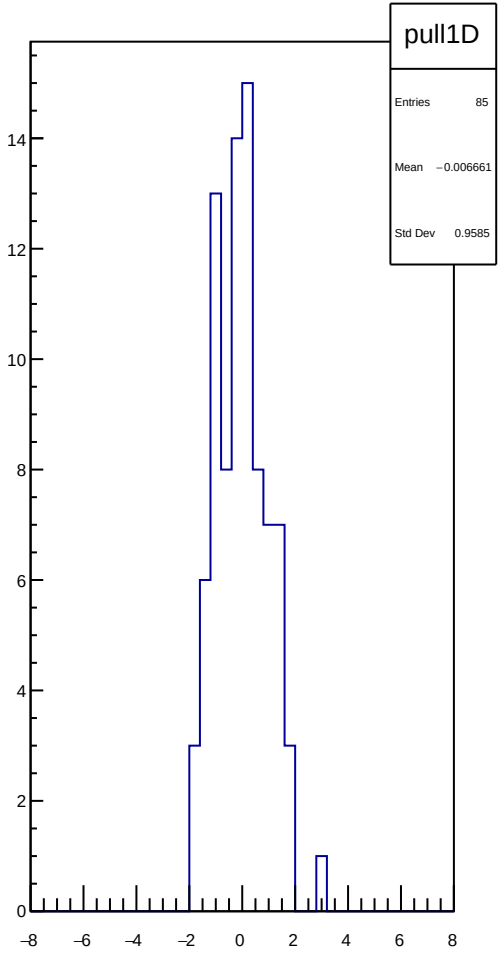

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 102.6 / 84
p0 14.11 ± 18.1
pull
Entries 85
Mean 376.7
Std Dev 346.9
pull1D
Entries 85
Mean 0.01494
Std Dev 1.099

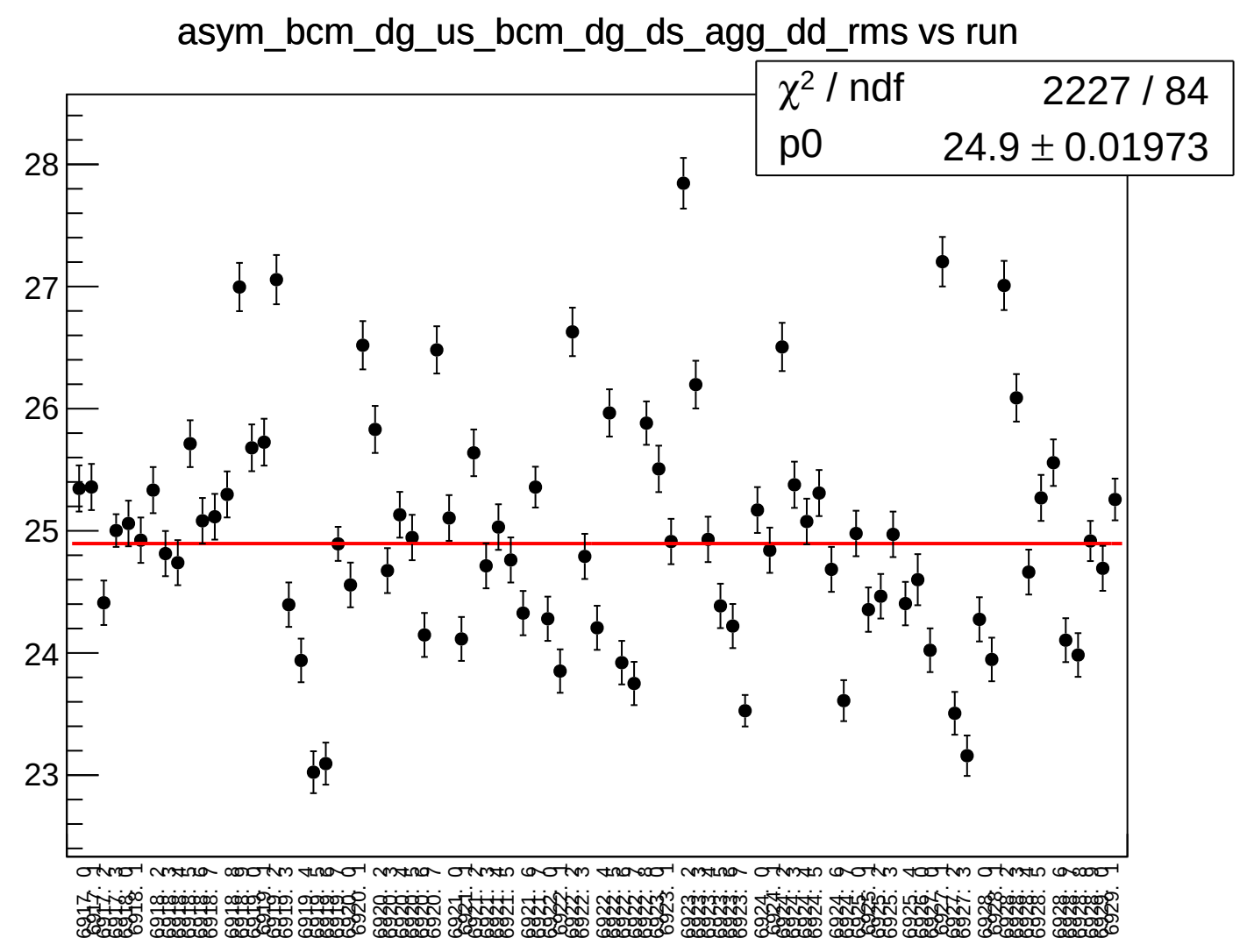

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2939 / 84
p0 16.15 ± 0.0128
18.5
18
17.5
17
16.5
16
15.5
15
14.5

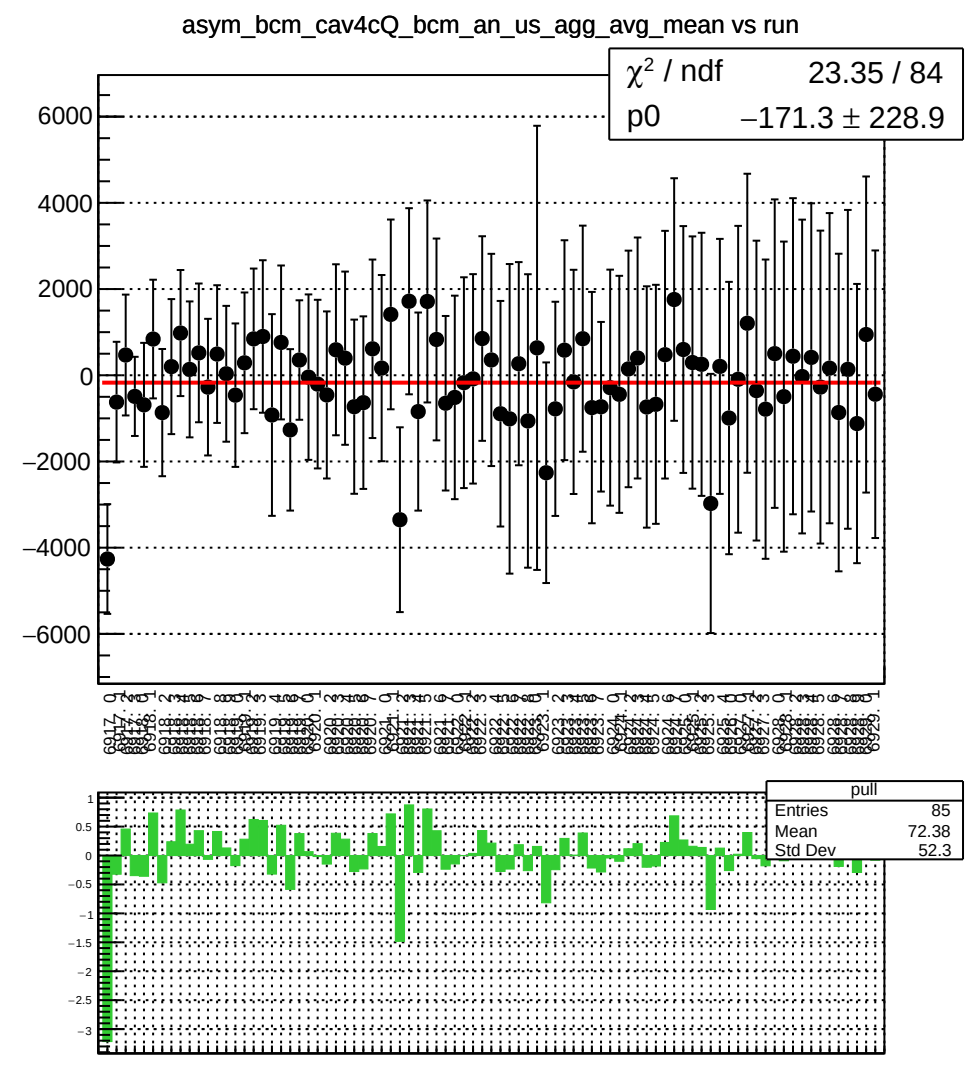

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.62 / 84
p0 −106.2 ± 221.8
pull
Entries 85
Mean 83.66
Std Dev 66.86
pull1D
Entries 85
Mean 0.01854
Std Dev 0.504

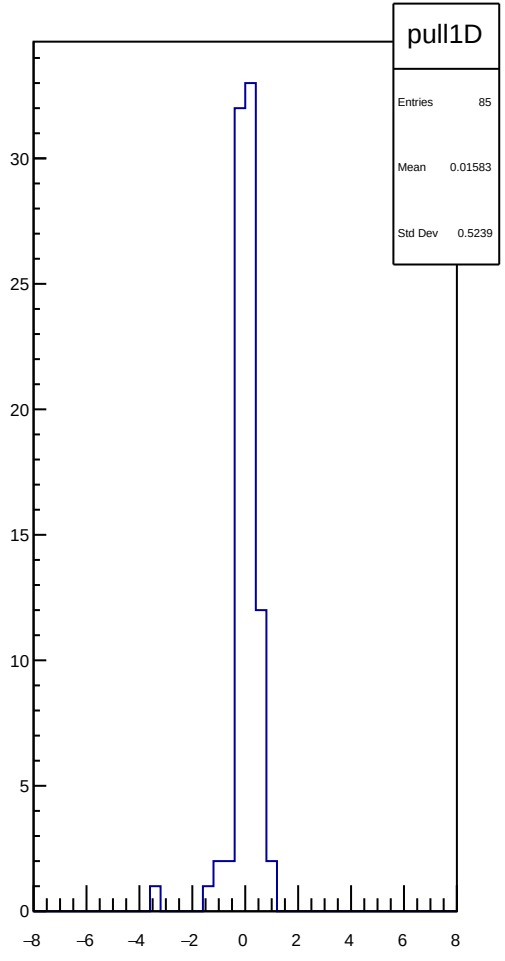

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.581e+05 / 84
p0 188 ± 0.1568
500
450
400
350
300
250
200
150
100

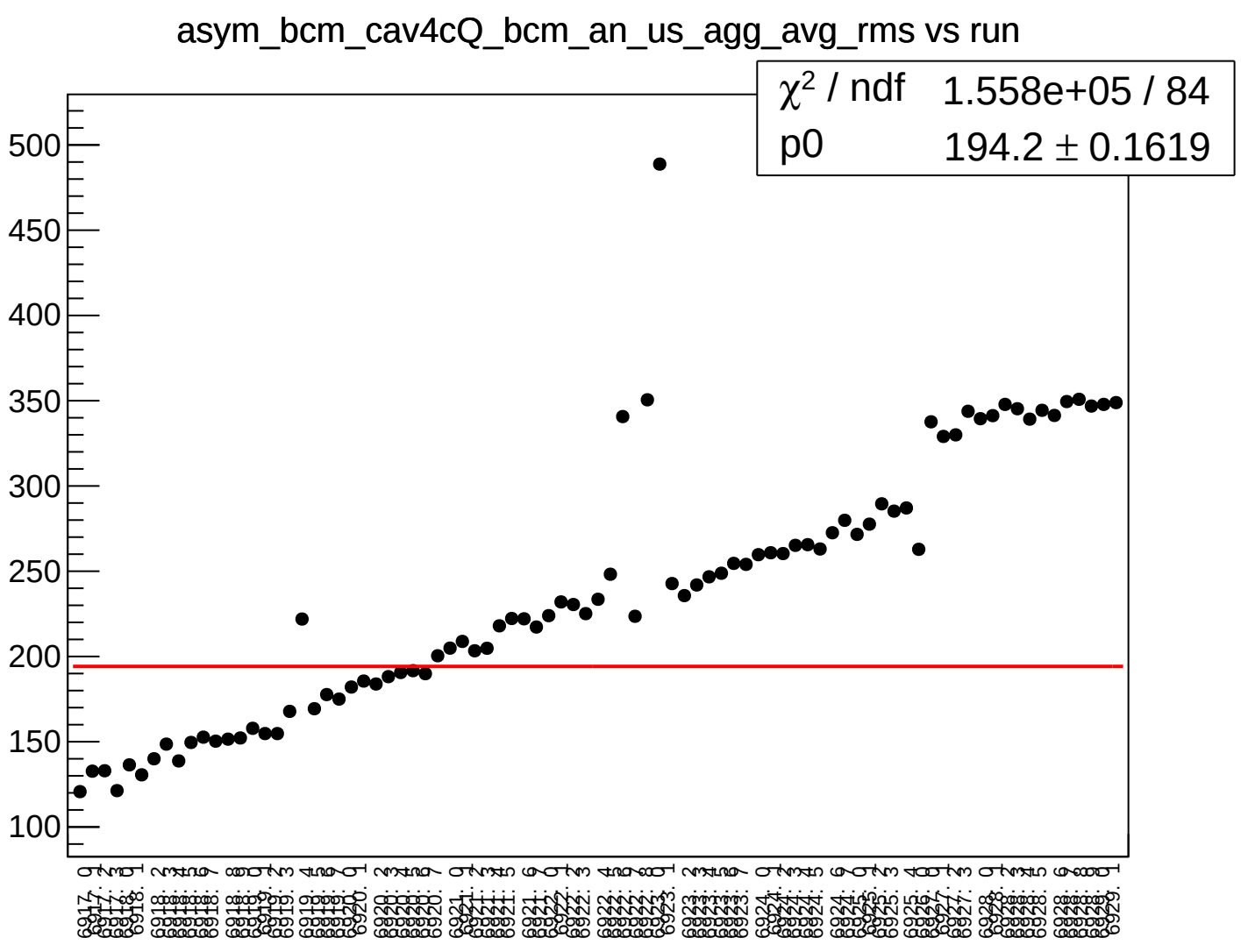

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.09 / 84
p0 11.2 ± 27.9
pull
Entries 85
Mean 289.1
Std Dev 245.3

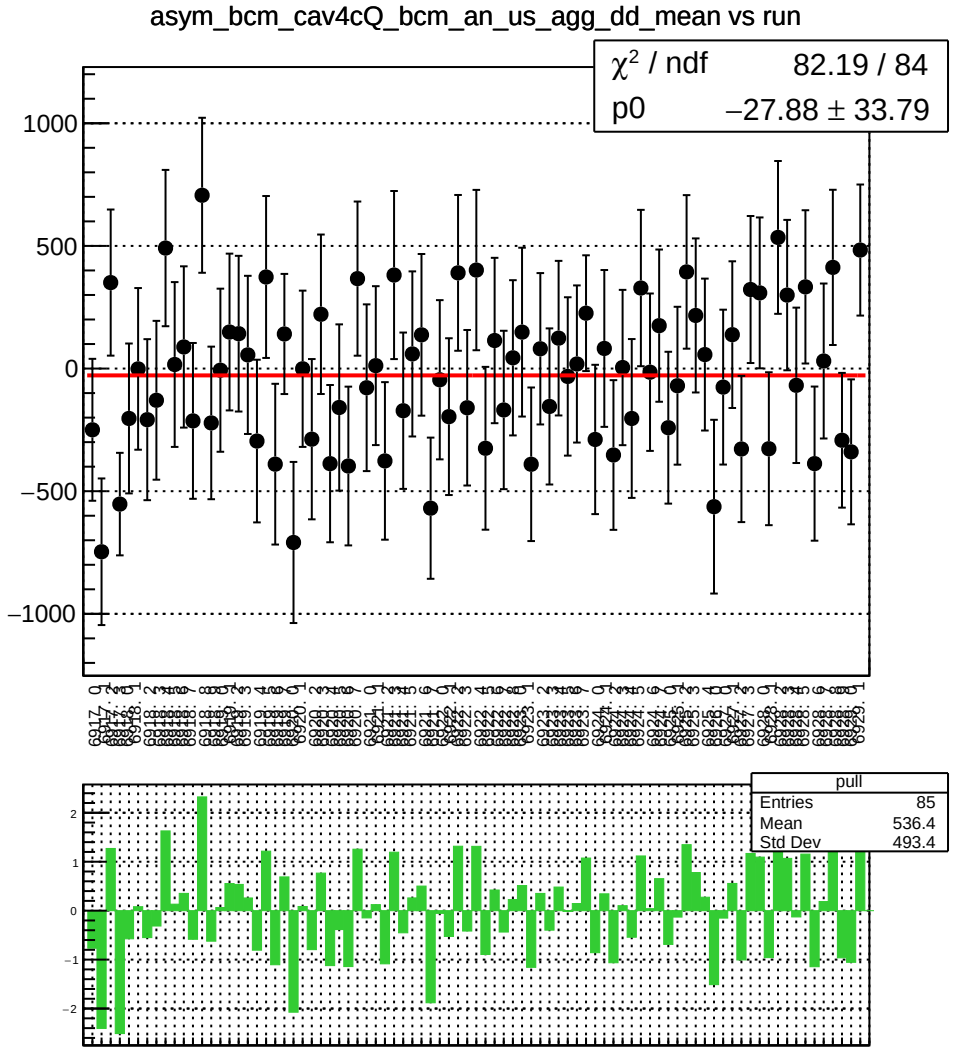

pull1D
Entries 85
Mean −0.006661
Std Dev 0.9585

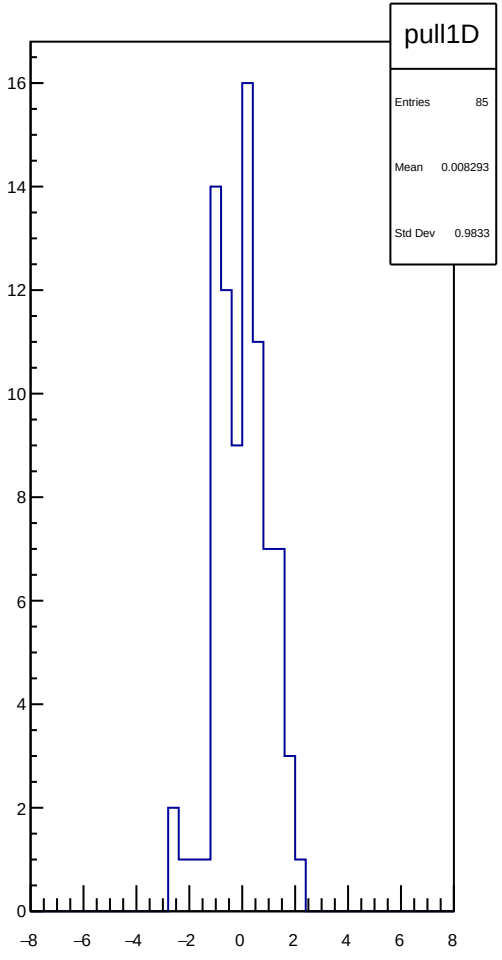

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2227 / 84
p0 24.9 ± 0.01973
28
27
26
25
24
23

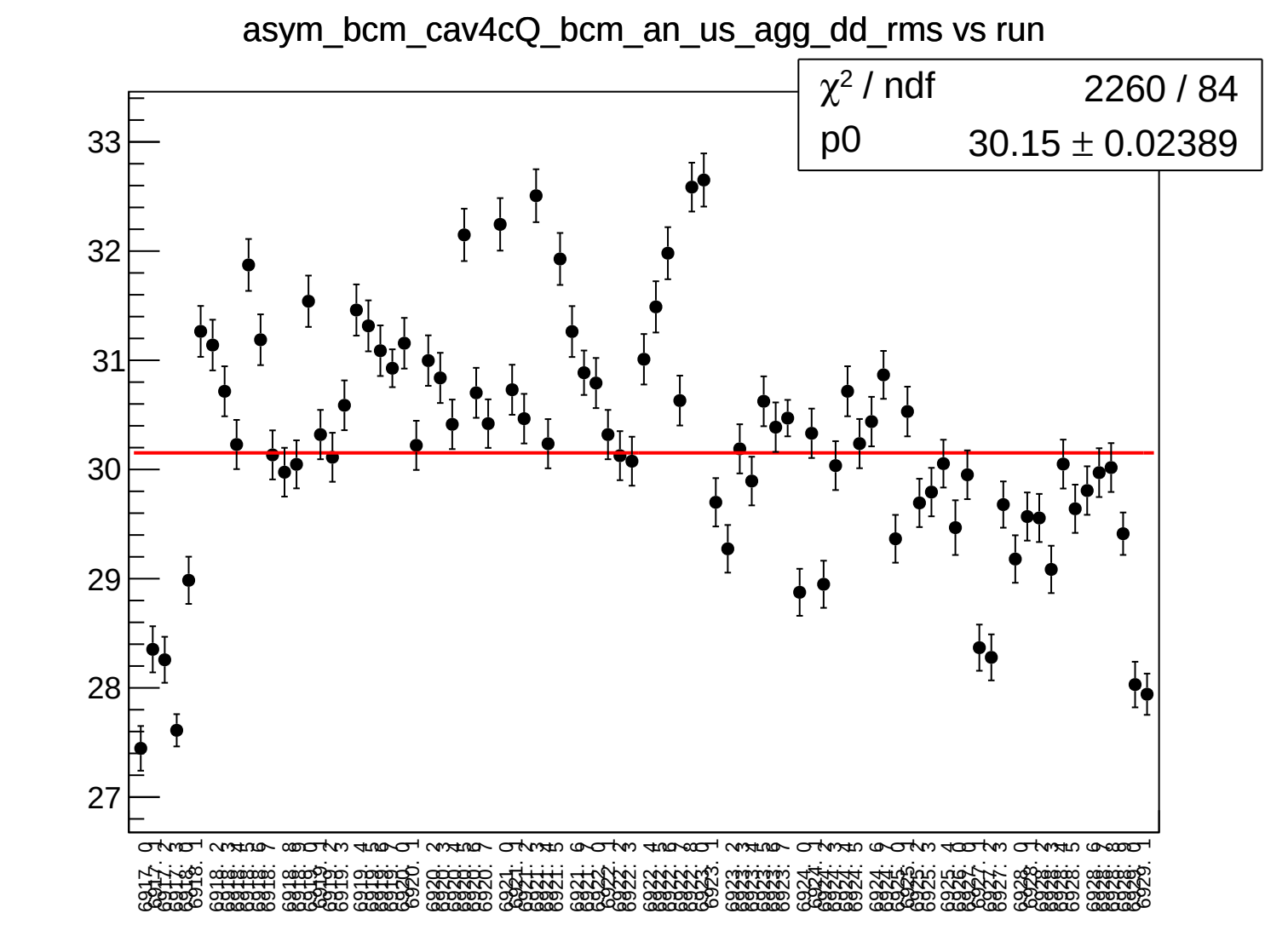

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.35 / 84
p0 −171.3 ± 228.9
pull
Entries 85
Mean 72.38
Std Dev 52.3

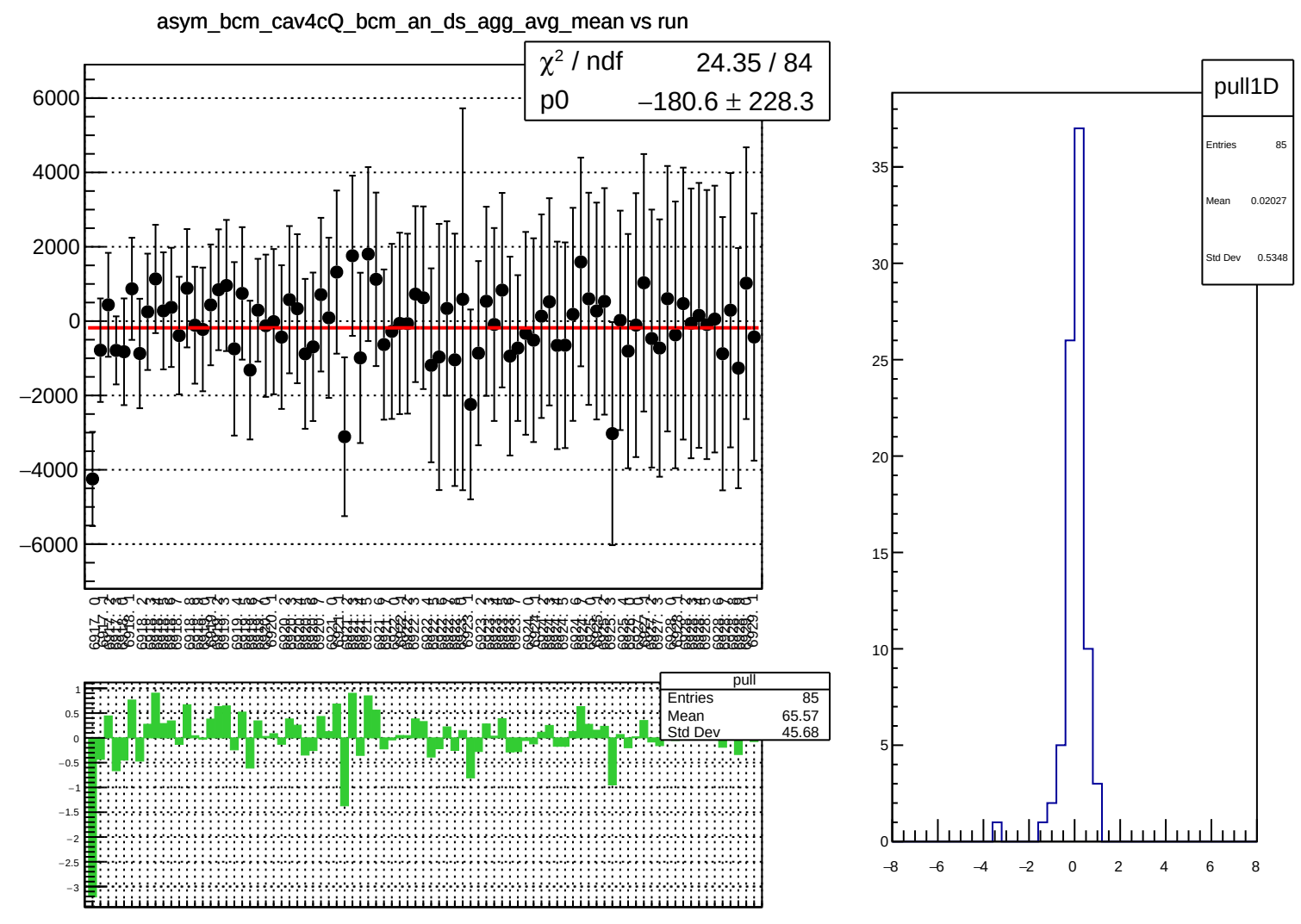

pull1D
Entries 85
Mean 0.01583
Std Dev 0.5239

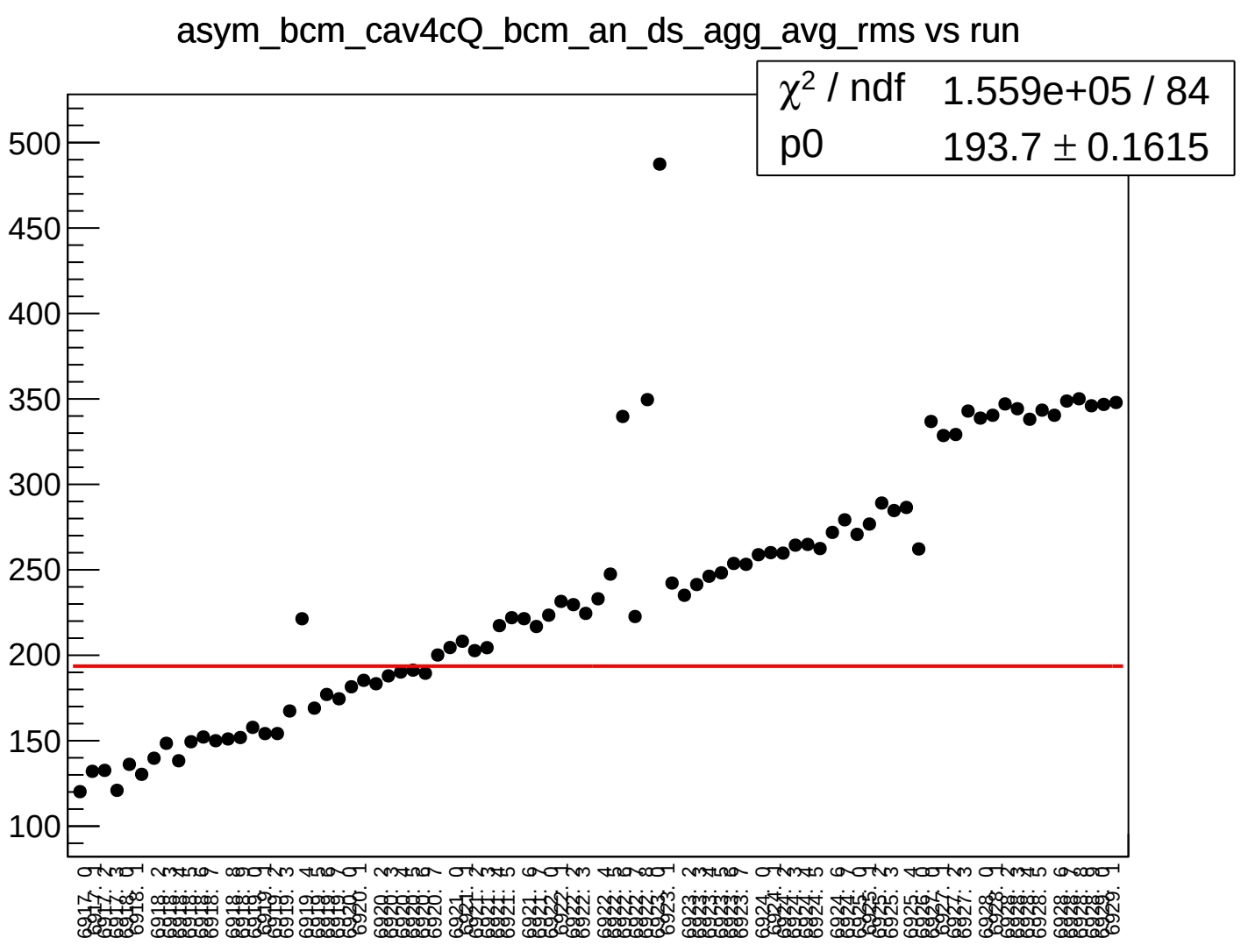

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.558e+05 / 84
p0 194.2 ± 0.1619
500
450
400
350
300
250
200
150
100

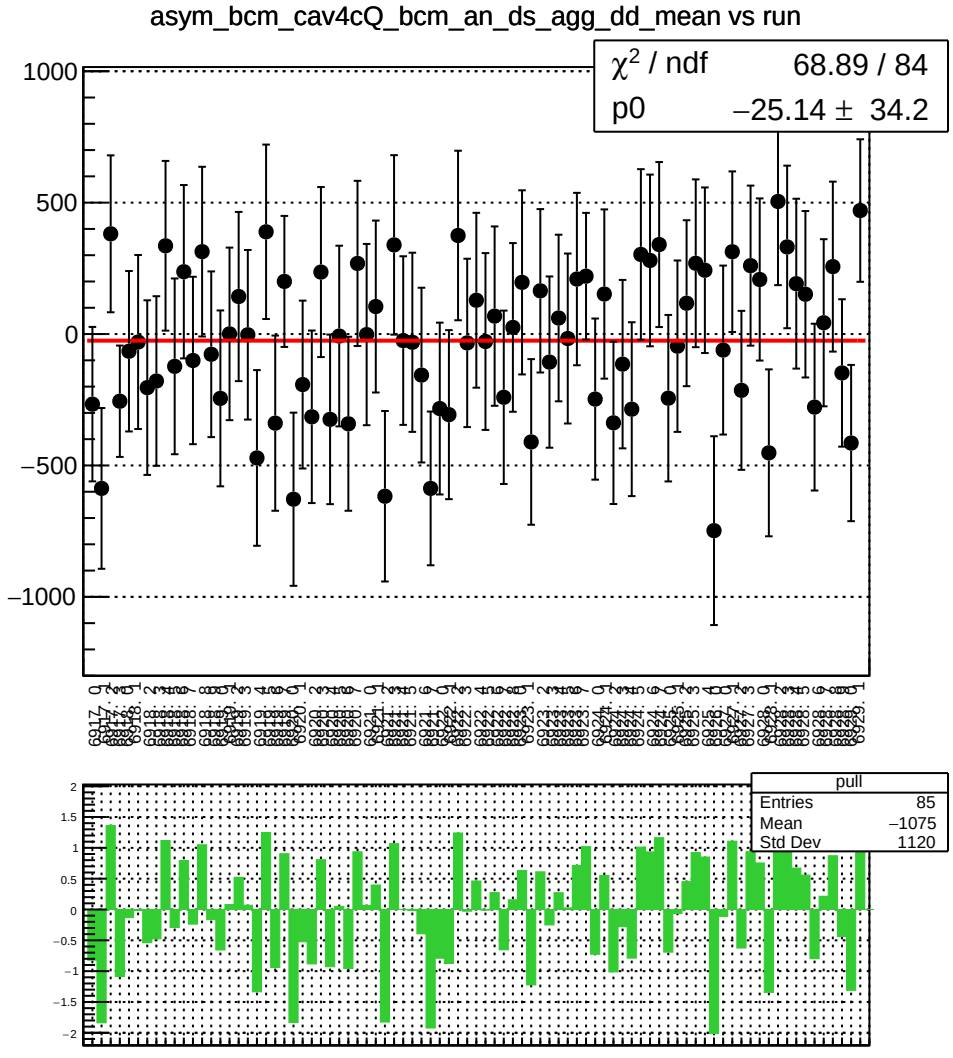

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.19 / 84
p0 −27.88 ± 33.79
1000
500
0
−500
−1000
pull
Entries 85
Mean 536.4
Std Dev 493.4
2
1
0
−1
−2

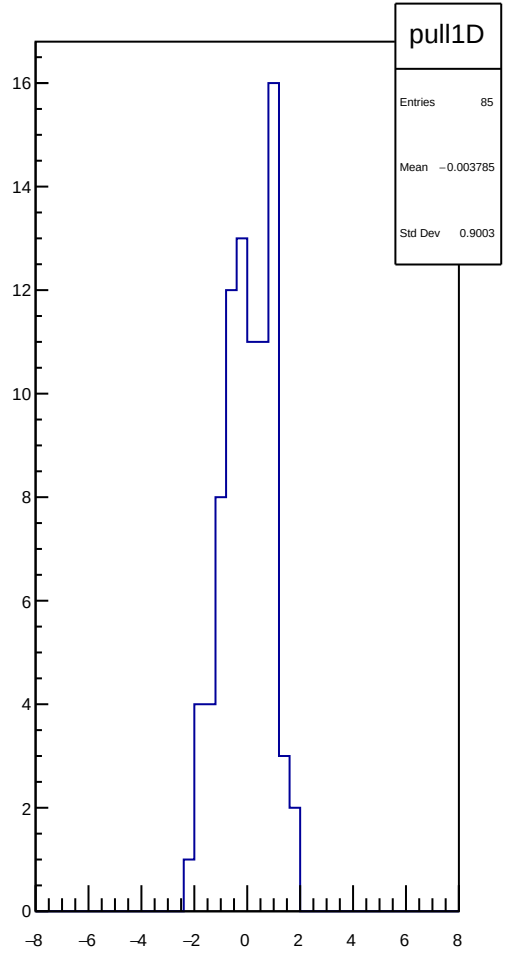

pull1D
Entries 85
Mean 0.008293
Std Dev 0.9833
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

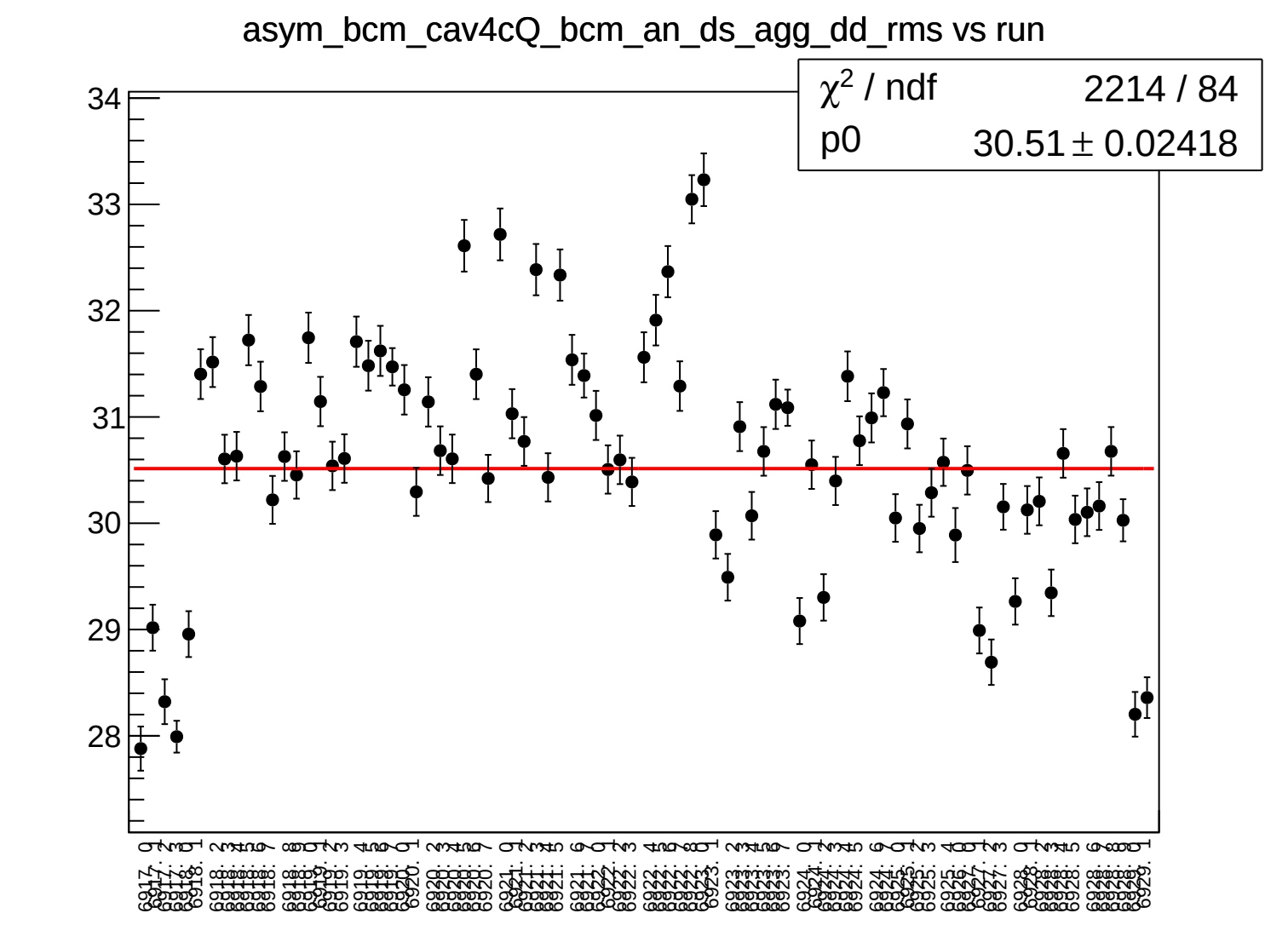

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2260 / 84
p0 30.15 ± 0.02389
33
32
31
30
29
28
27

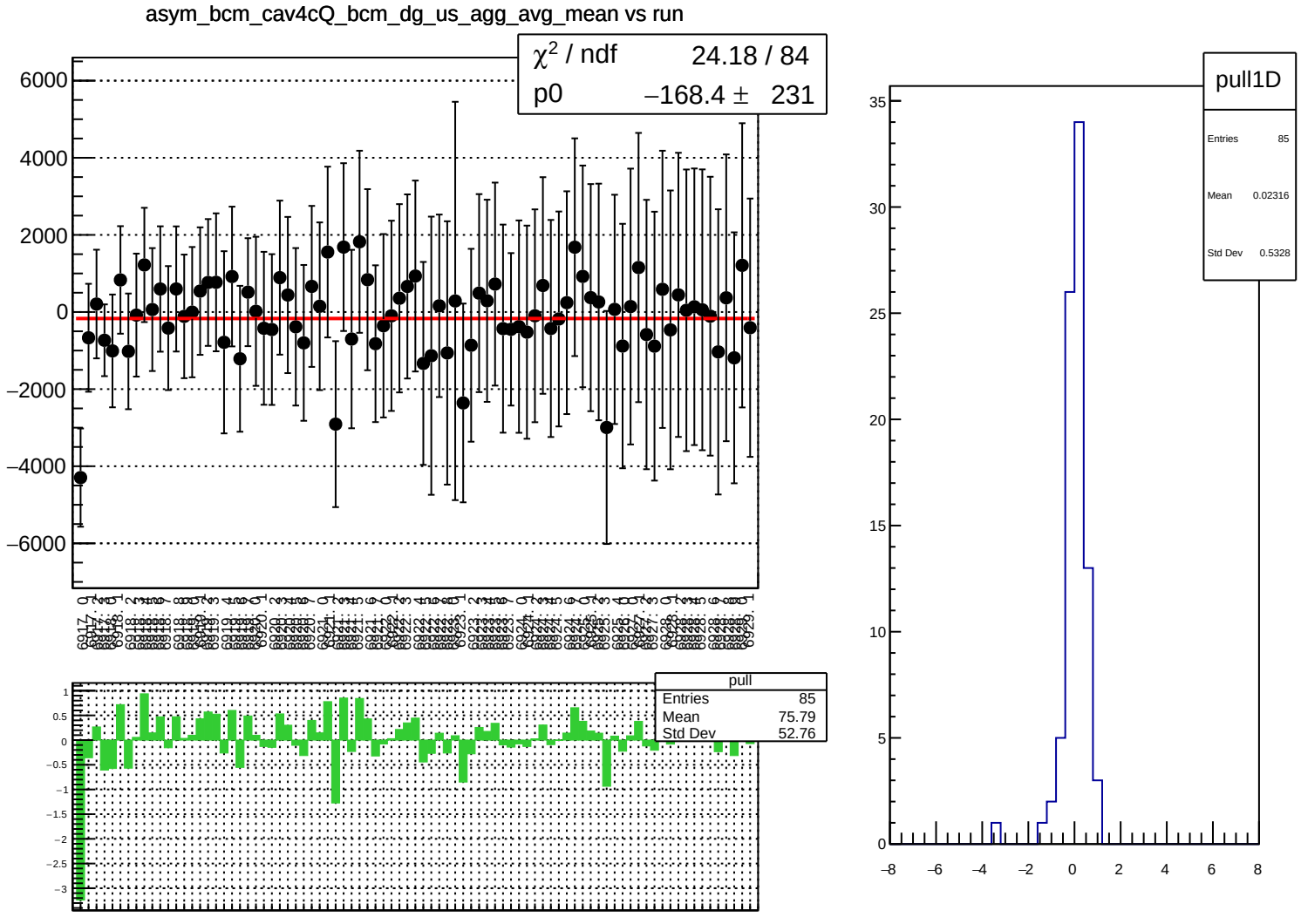

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.35 / 84
p0 −180.6 ± 228.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 65.57
Std Dev 45.68
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 85
Mean 0.02027
Std Dev 0.5348
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

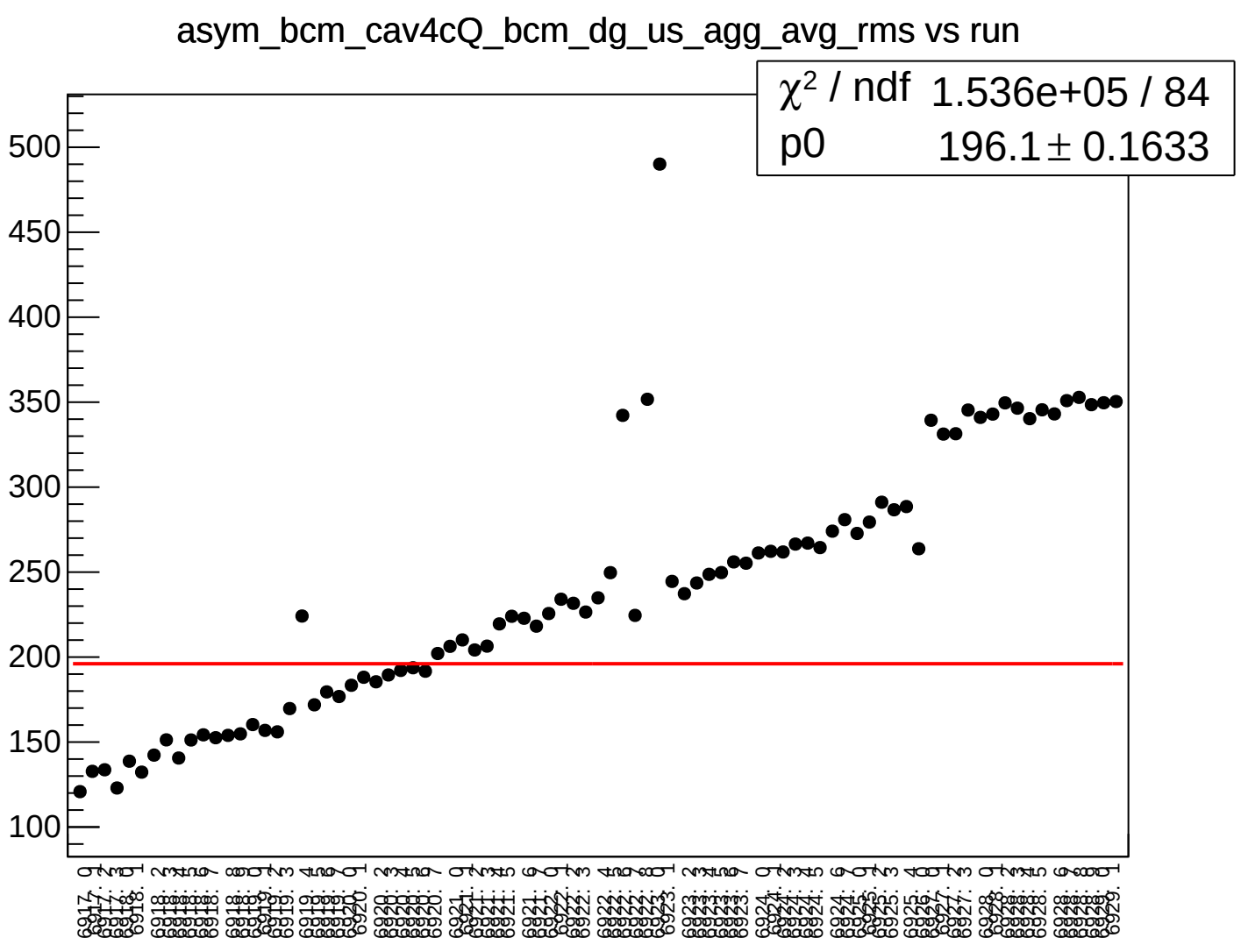

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.559e+05 / 84
p0 193.7 ± 0.1615
500
450
400
350
300
250
200
150
100

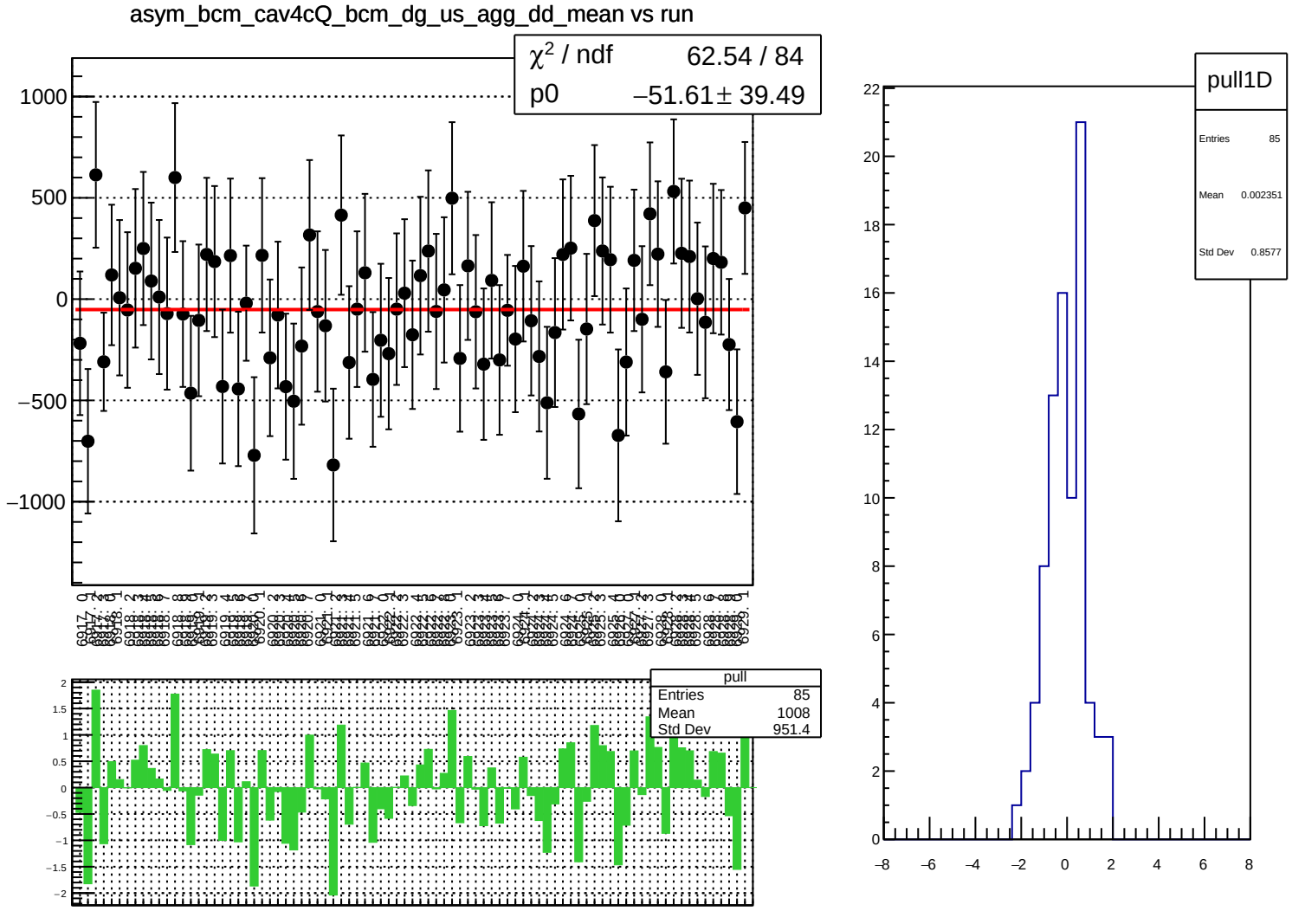

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.89 / 84
p0 −25.14 ± 34.2
1000
500
0
−500
−1000
pull
Entries 85
Mean −1075
Std Dev 1120
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

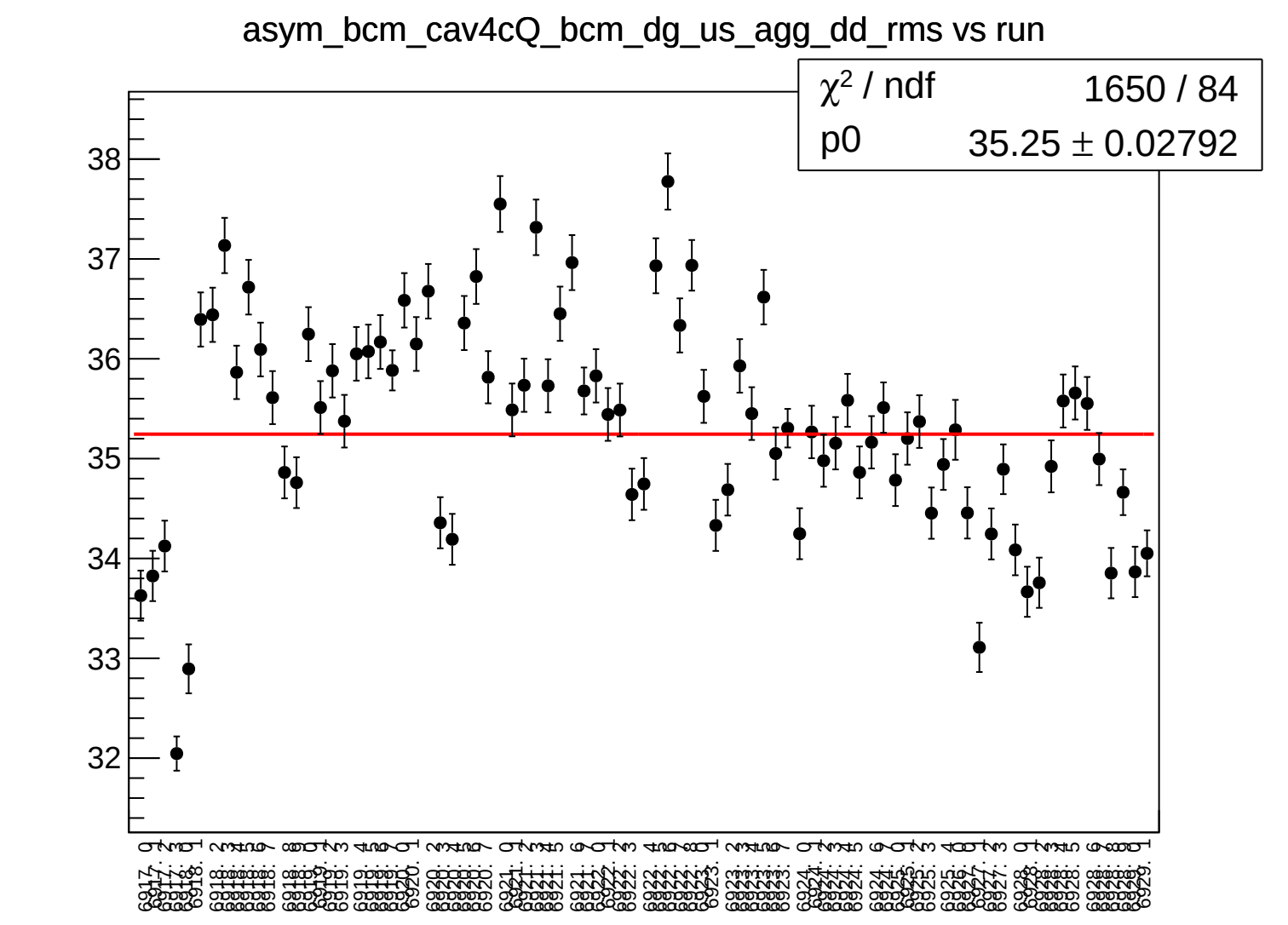

pull1D
Entries 85
Mean −0.003785
Std Dev 0.9003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

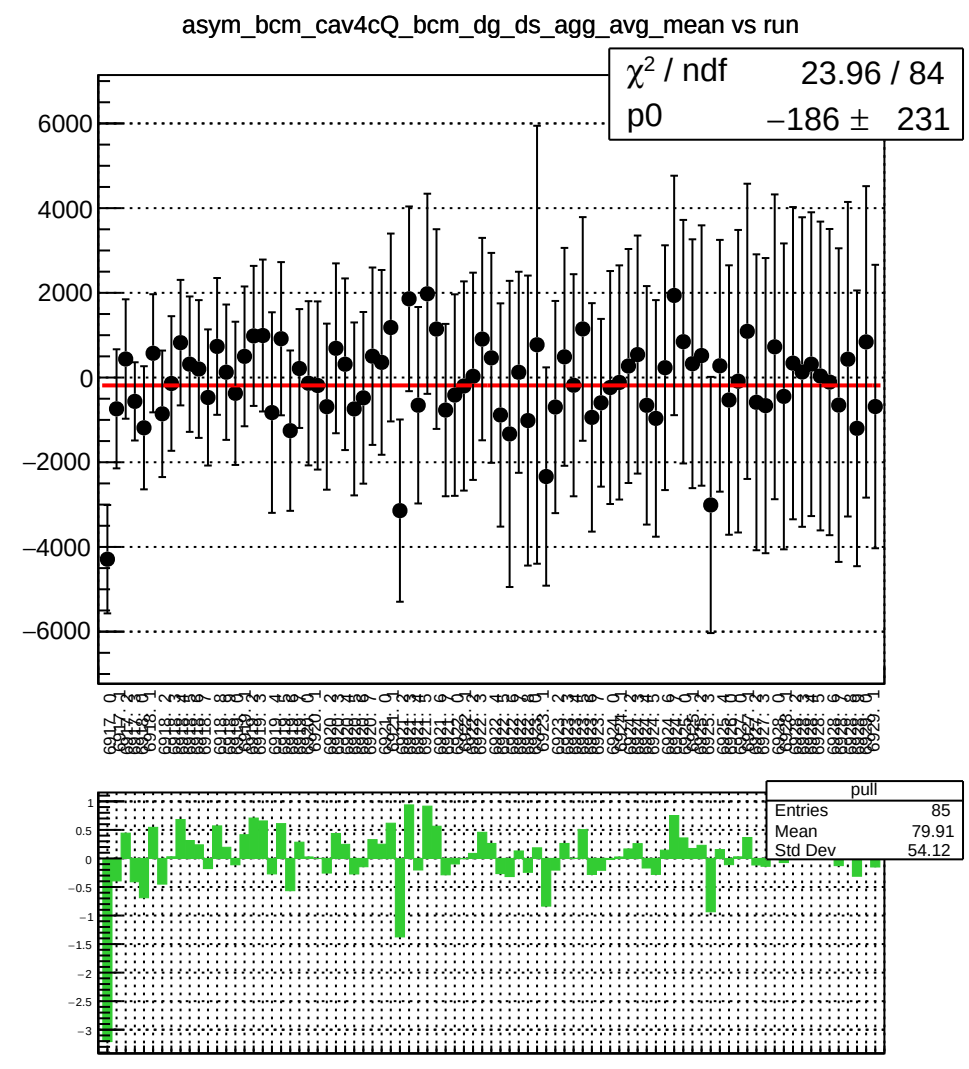

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2214 / 84
p0 30.51 ± 0.02418
34
33
32
31
30
29
28

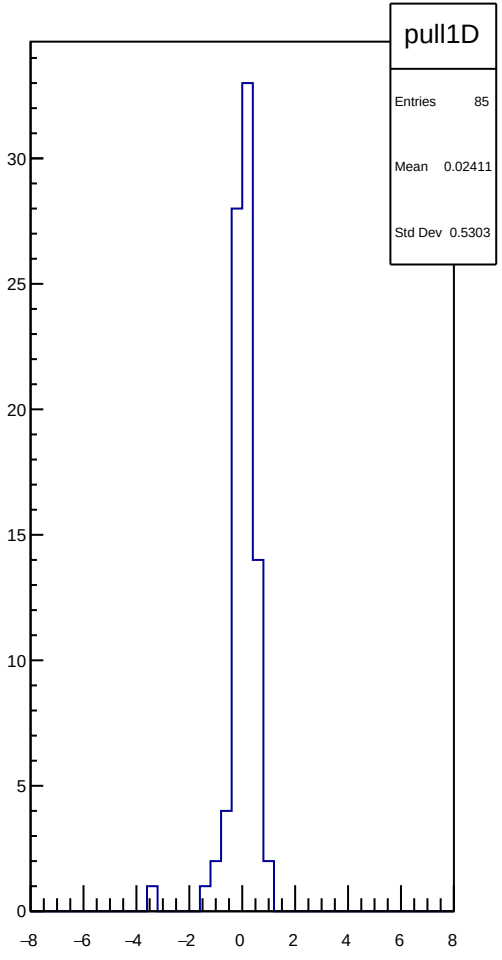

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 24.18 / 84
p0 −168.4 ± 231
pull
Entries 85
Mean 75.79
Std Dev 52.76
pull1D
Entries 85
Mean 0.02316
Std Dev 0.5328

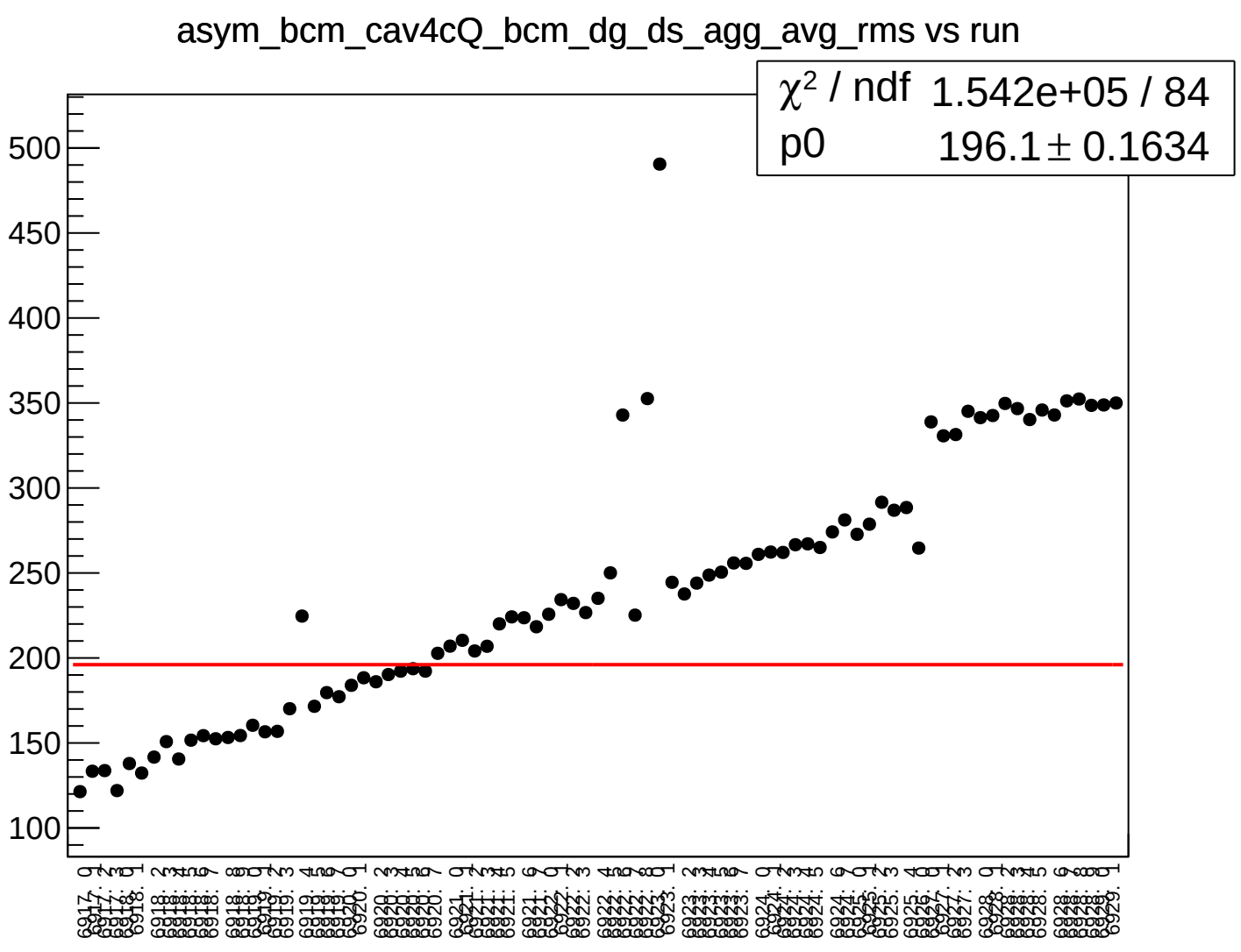

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.536e+05 / 84
p0 196.1 ± 0.1633
500
450
400
350
300
250
200
150
100

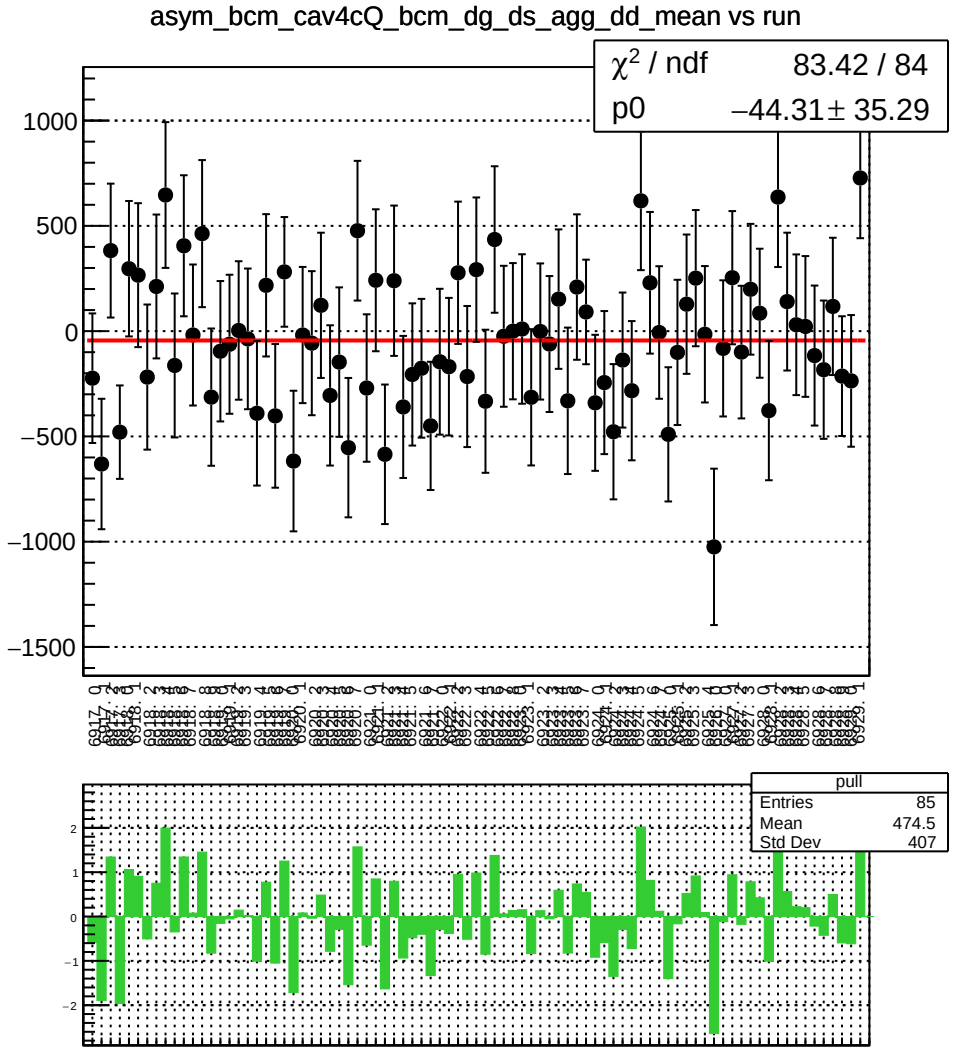

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 62.54 / 84
p0 −51.61 ± 39.49
1000
500
0
−500
−1000
pull
Entries 85
Mean 1008
Std Dev 951.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.002351
Std Dev 0.8577
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

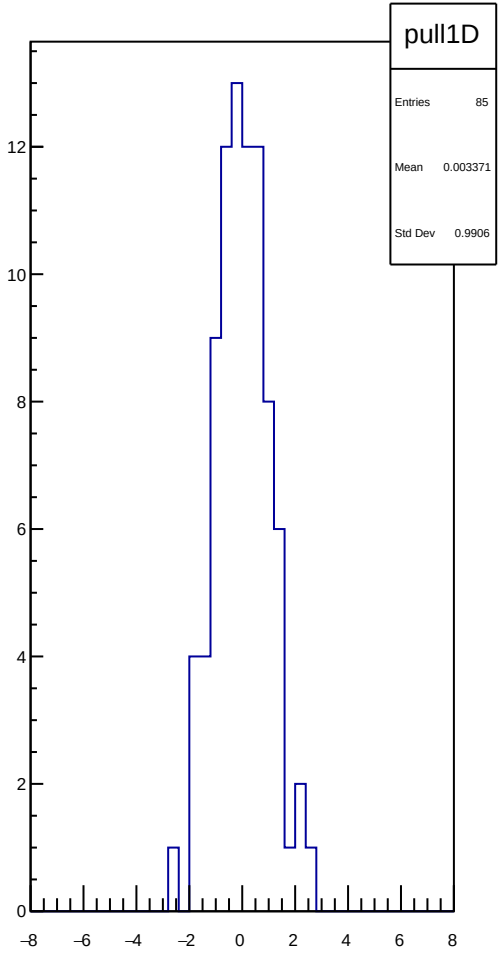

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1650 / 84
p0 35.25 ± 0.02792
38
37
36
35
34
33
32

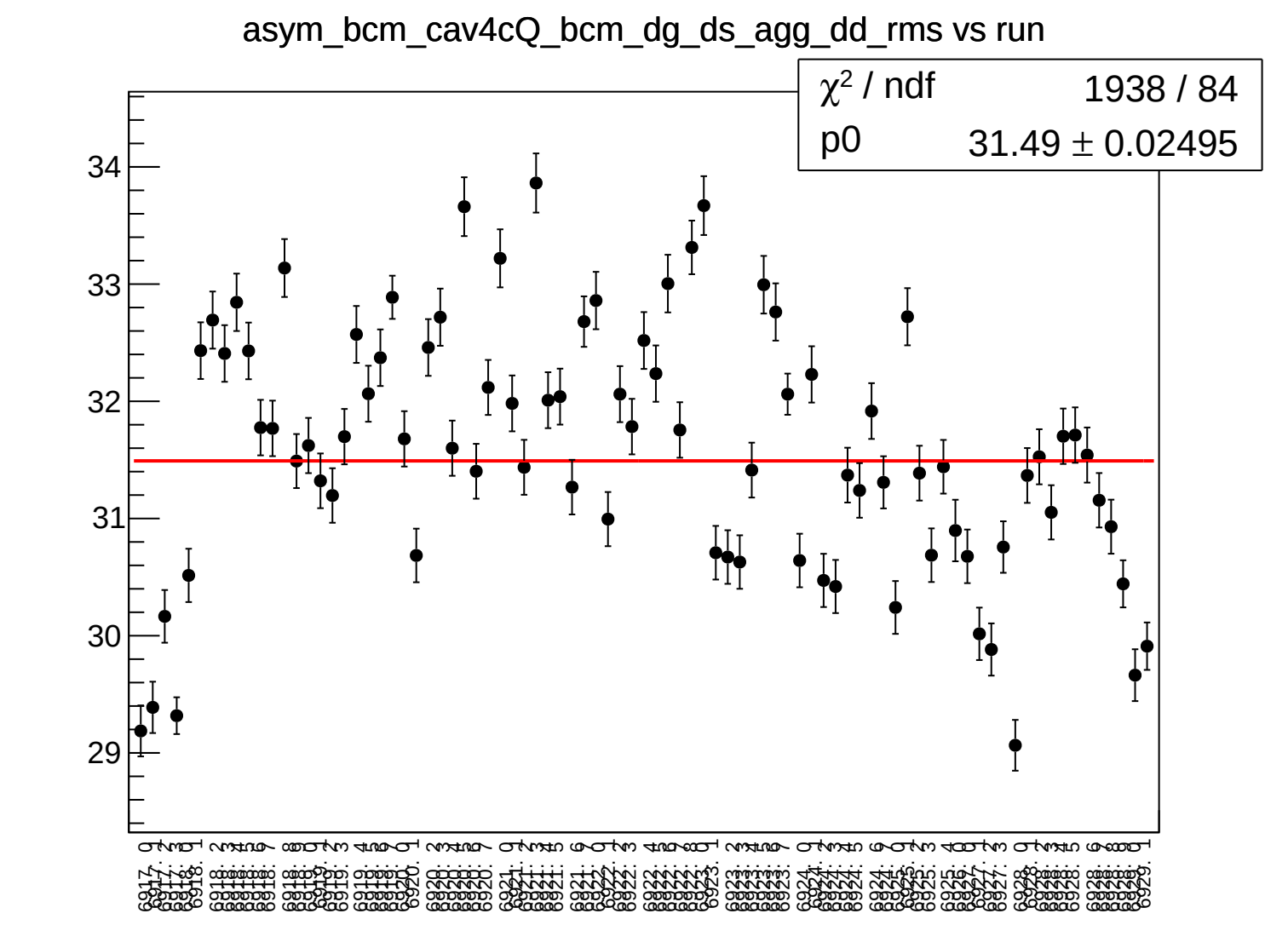

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.96 / 84
p0 −186 ± 231
pull
Entries 85
Mean 79.91
Std Dev 54.12

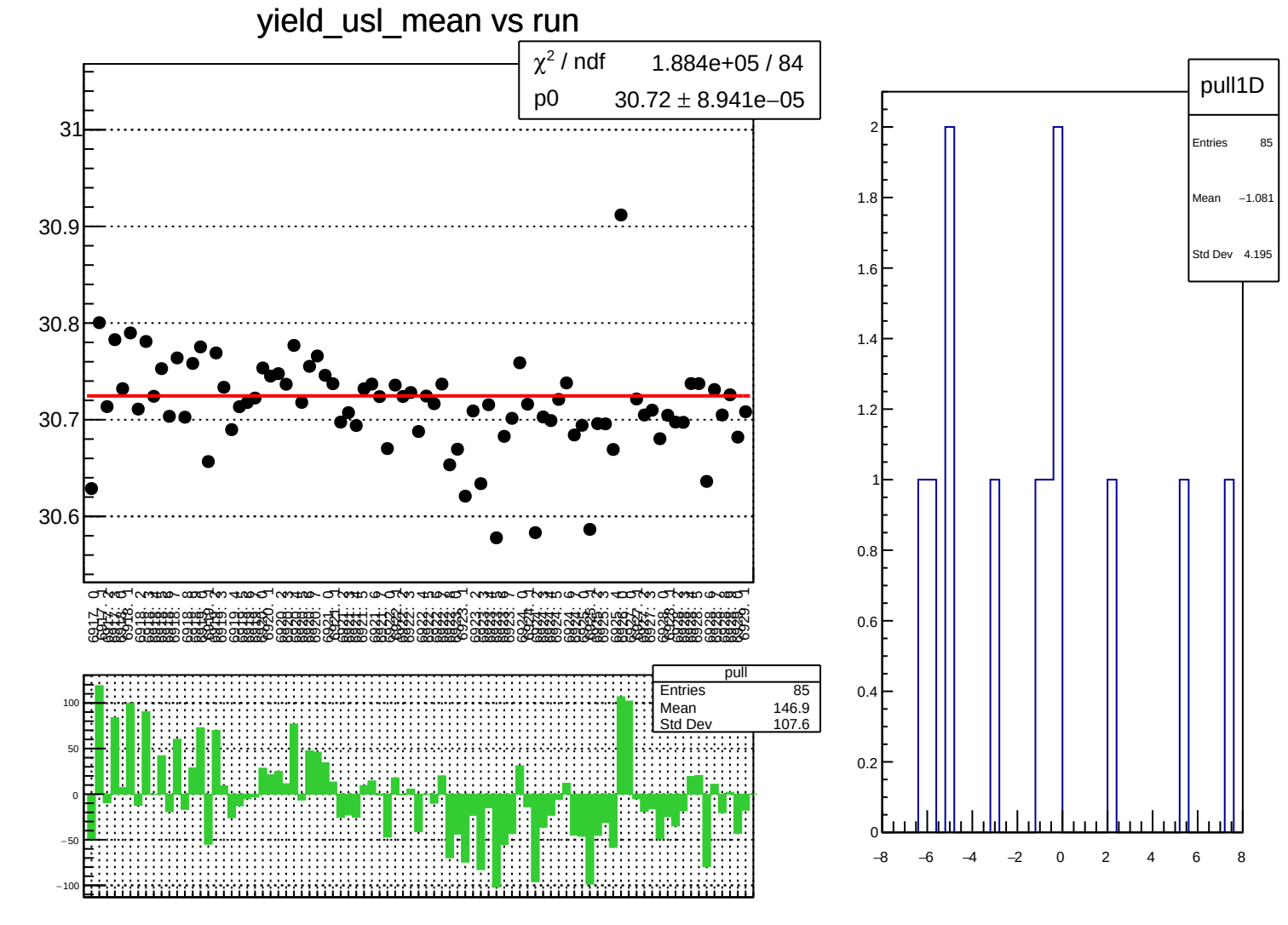

pull1D
Entries 85
Mean 0.02411
Std Dev 0.5303

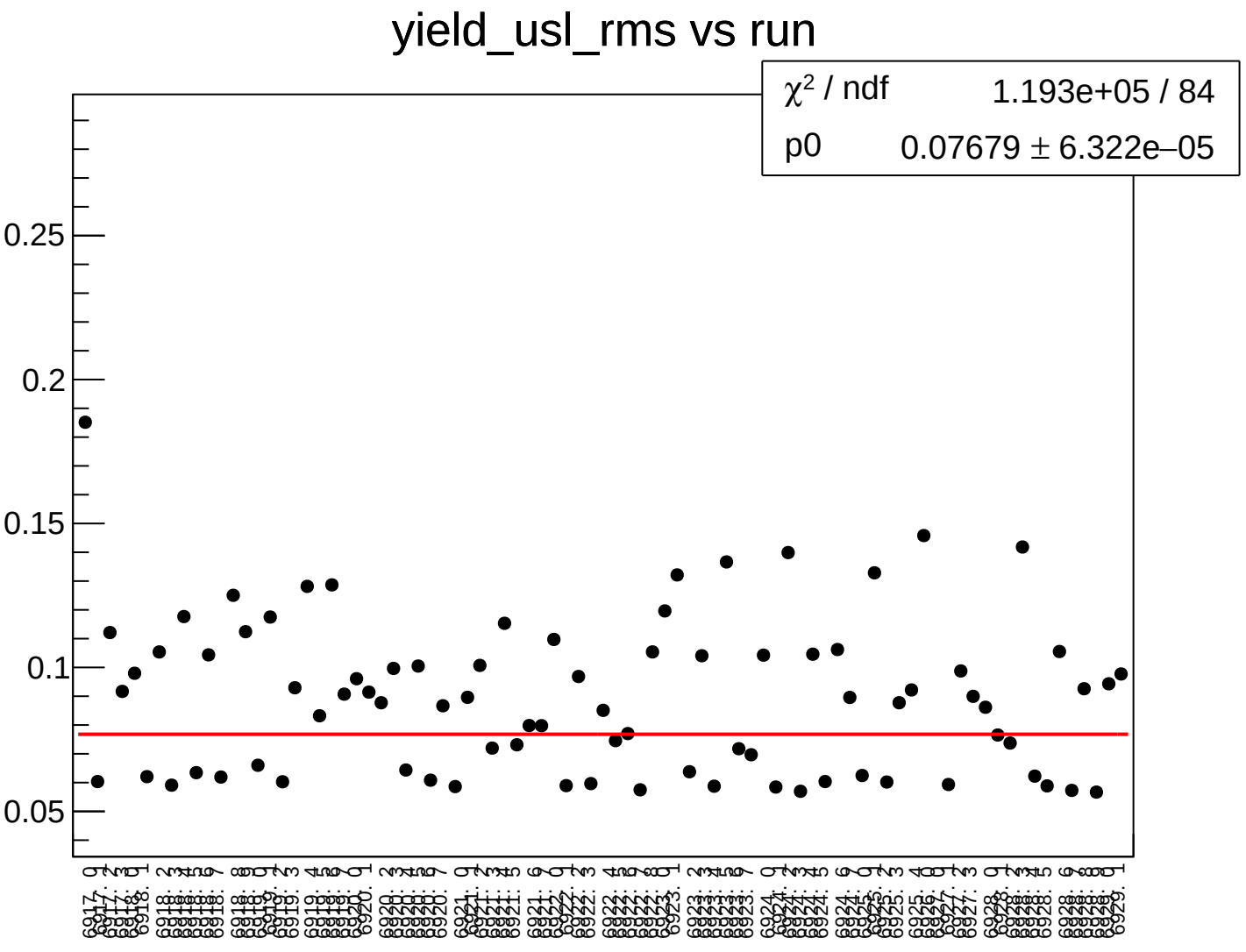

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.542e+05 / 84
p0 196.1 ± 0.1634
500
450
400
350
300
250
200
150
100

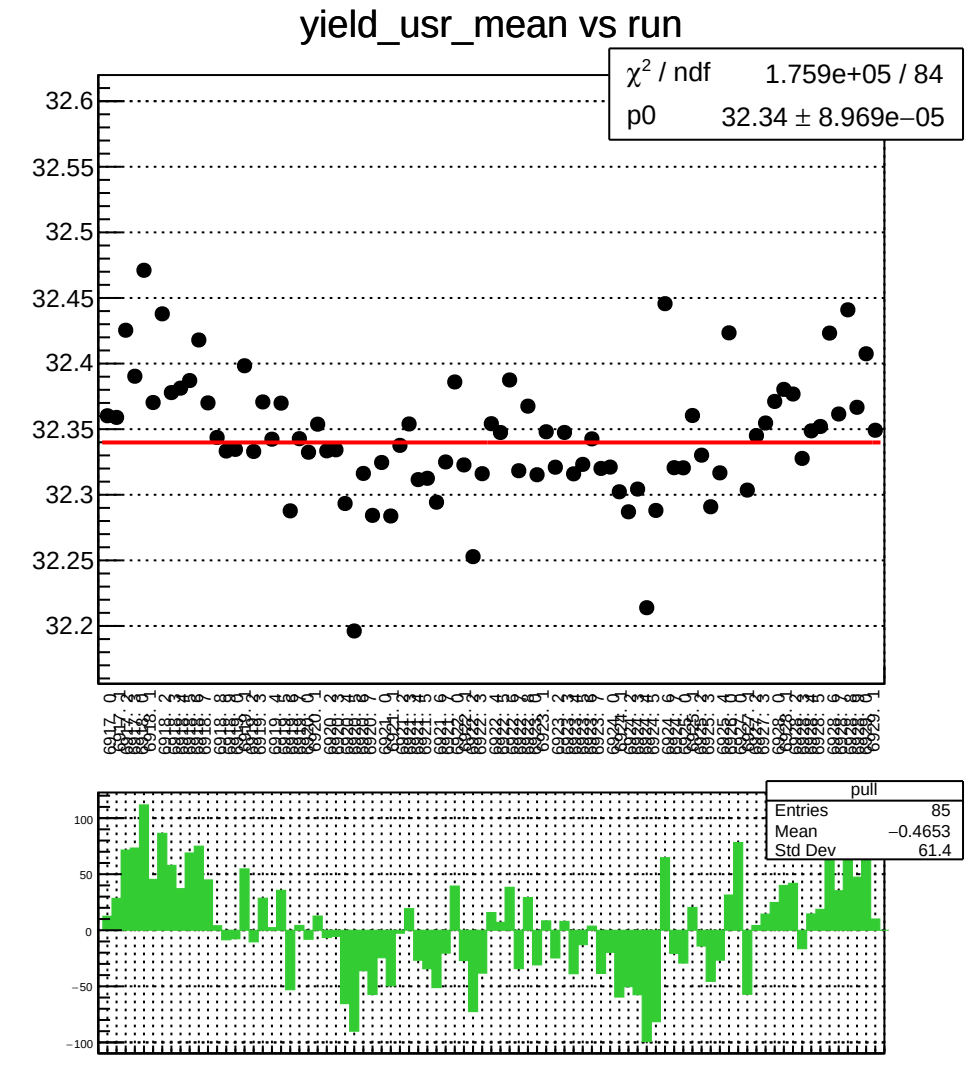

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.42 / 84
p0 −44.31 ± 35.29
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 474.5
Std Dev 407
2
1
0
−1
−2

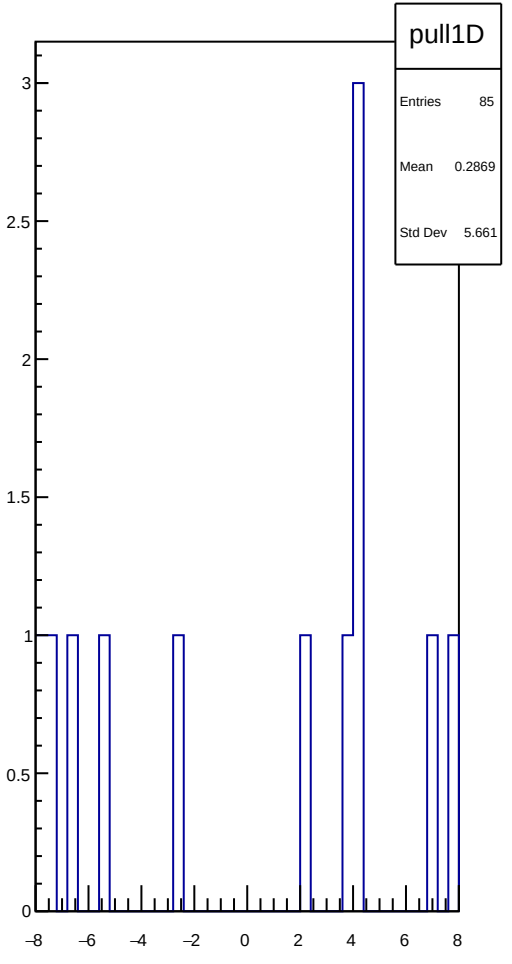

pull1D
Entries 85
Mean 0.003371
Std Dev 0.9906
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

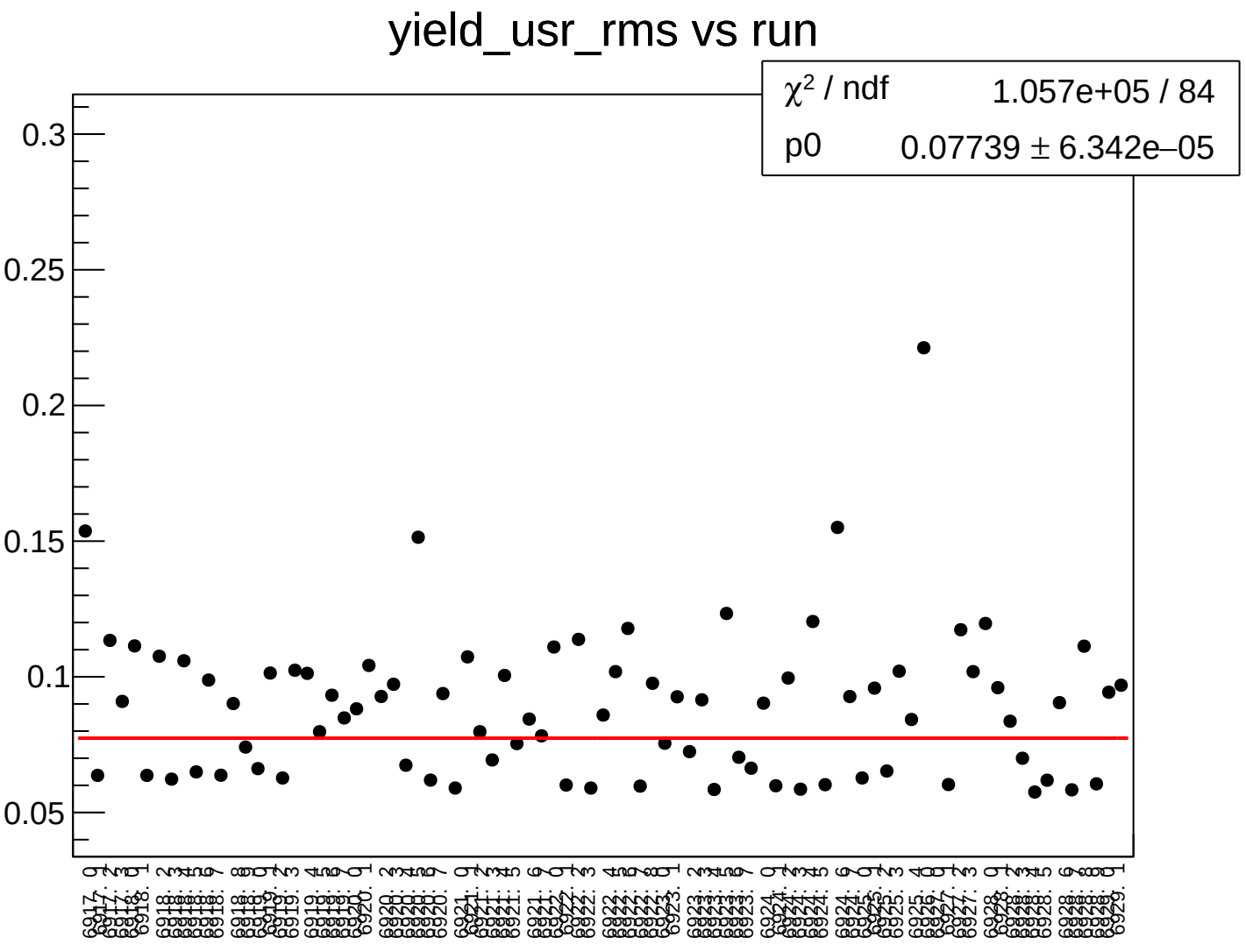

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1938 / 84
p0 31.49 ± 0.02495
34
33
32
31
30
29

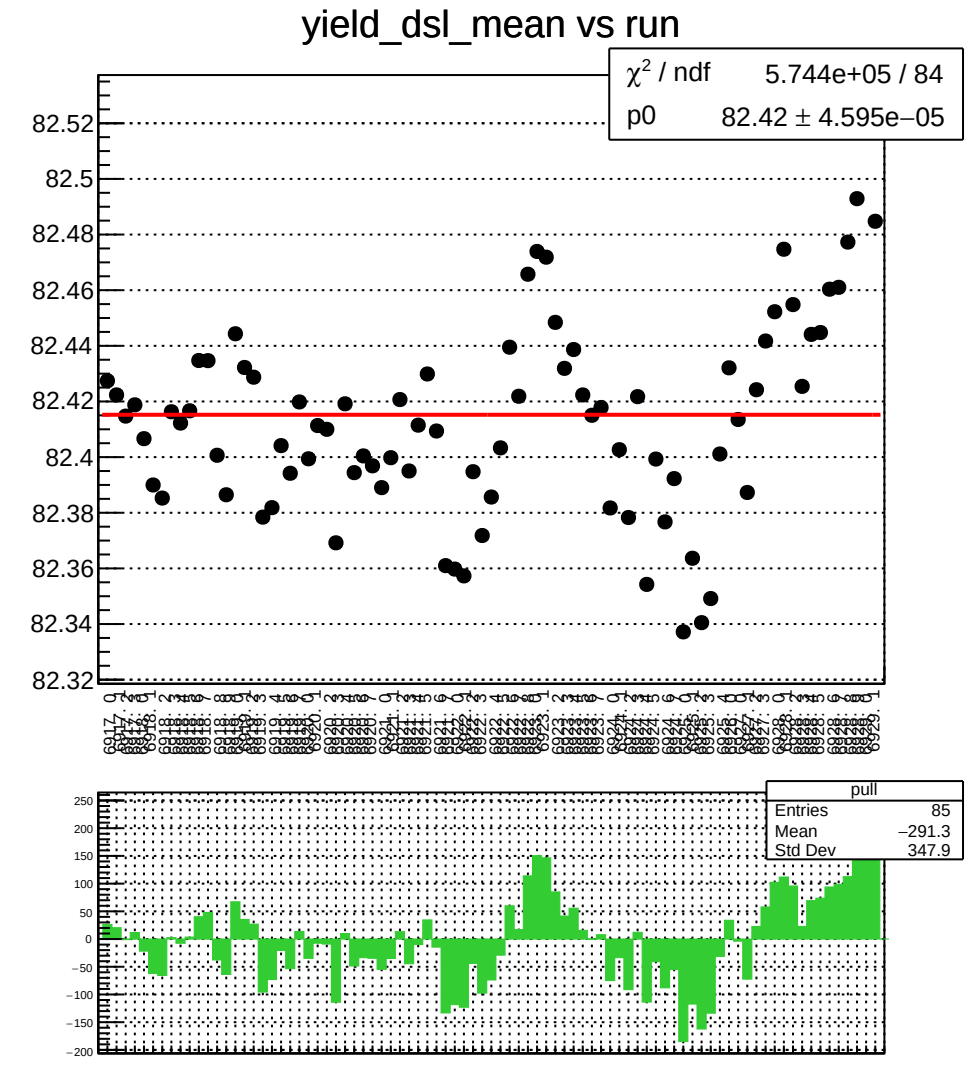

yield_usl_mean vs run
χ² / ndf 1.884e+05 / 84
p0 30.72 ± 8.941e−05
31
30.9
30.8
30.7
30.6
pull
Entries 85
Mean 146.9
Std Dev 107.6
100
50
0
−50
−100
pull1D
Entries 85
Mean −1.081
Std Dev 4.195
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

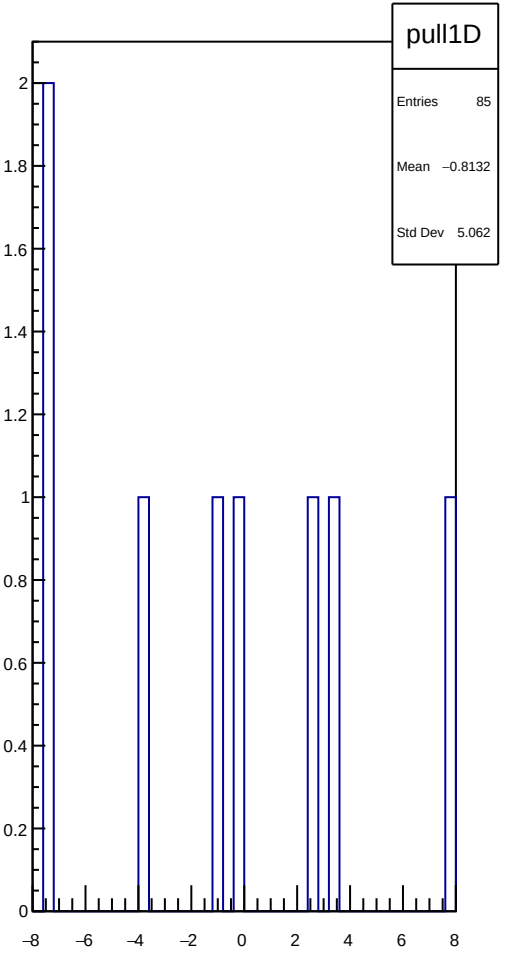

yield_usl_rms vs run
χ² / ndf 1.193e+05 / 84
p0 0.07679 ± 6.322e−05
0.25
0.2
0.15
0.1
0.05

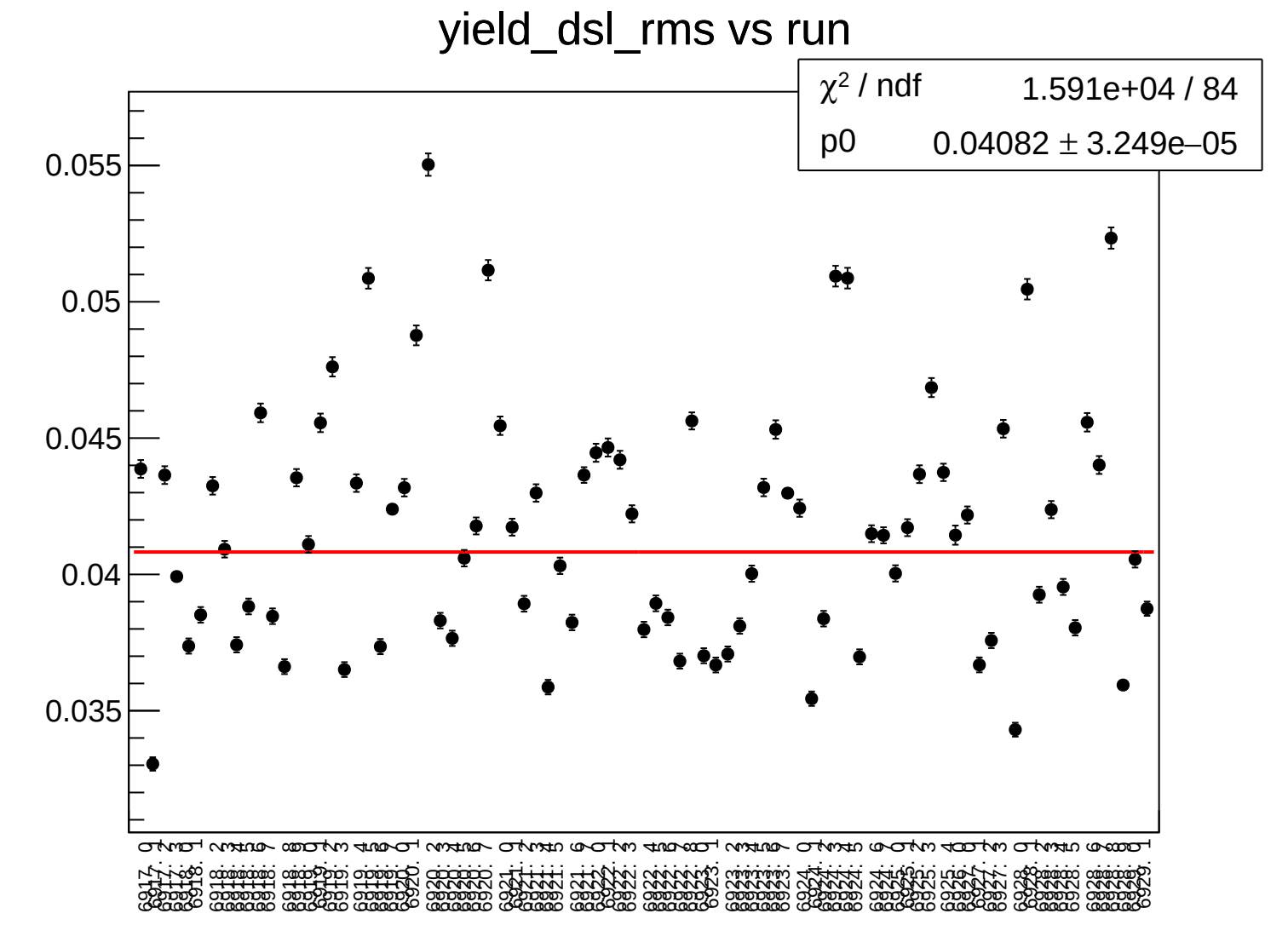

yield_usr_mean vs run
χ² / ndf 1.759e+05 / 84
p0 32.34 ± 8.969e−05
32.6
32.55
32.5
32.45
32.4
32.35
32.3
32.25
32.2
pull
Entries 85
Mean −0.4653
Std Dev 61.4
100
50
0
−50
−100

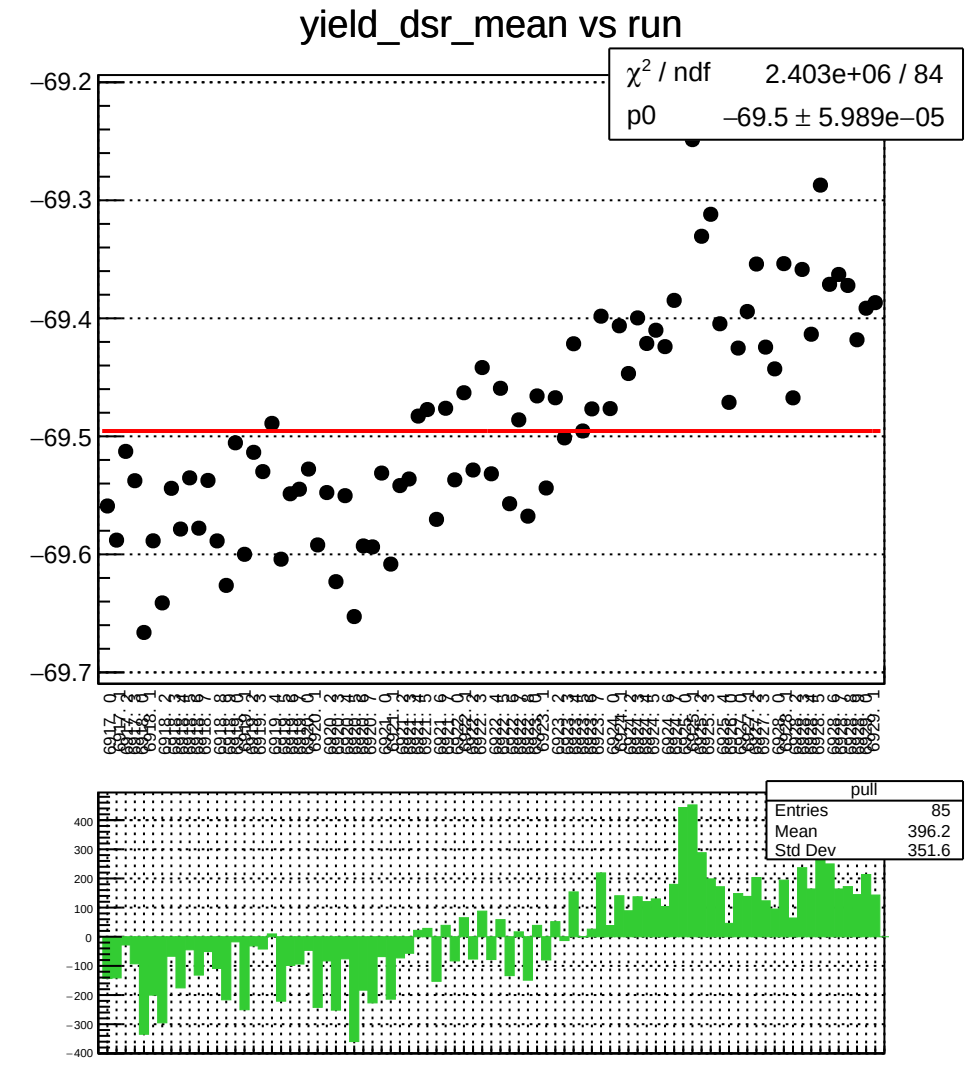

pull1D
Entries 85
Mean 0.2869
Std Dev 5.661
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

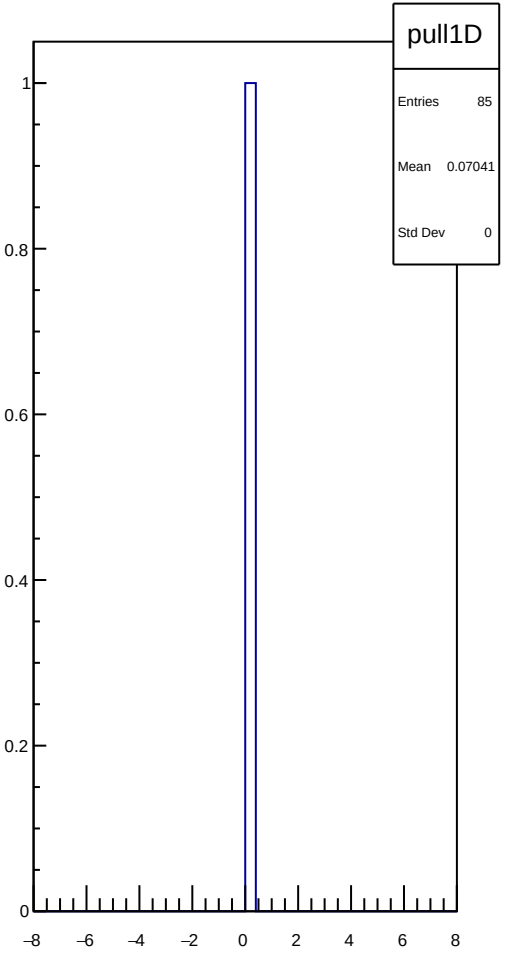

yield_usr_rms vs run
χ² / ndf 1.057e+05 / 84
p0 0.07739 ± 6.342e−05
0.3
0.25
0.2
0.15
0.1
0.05

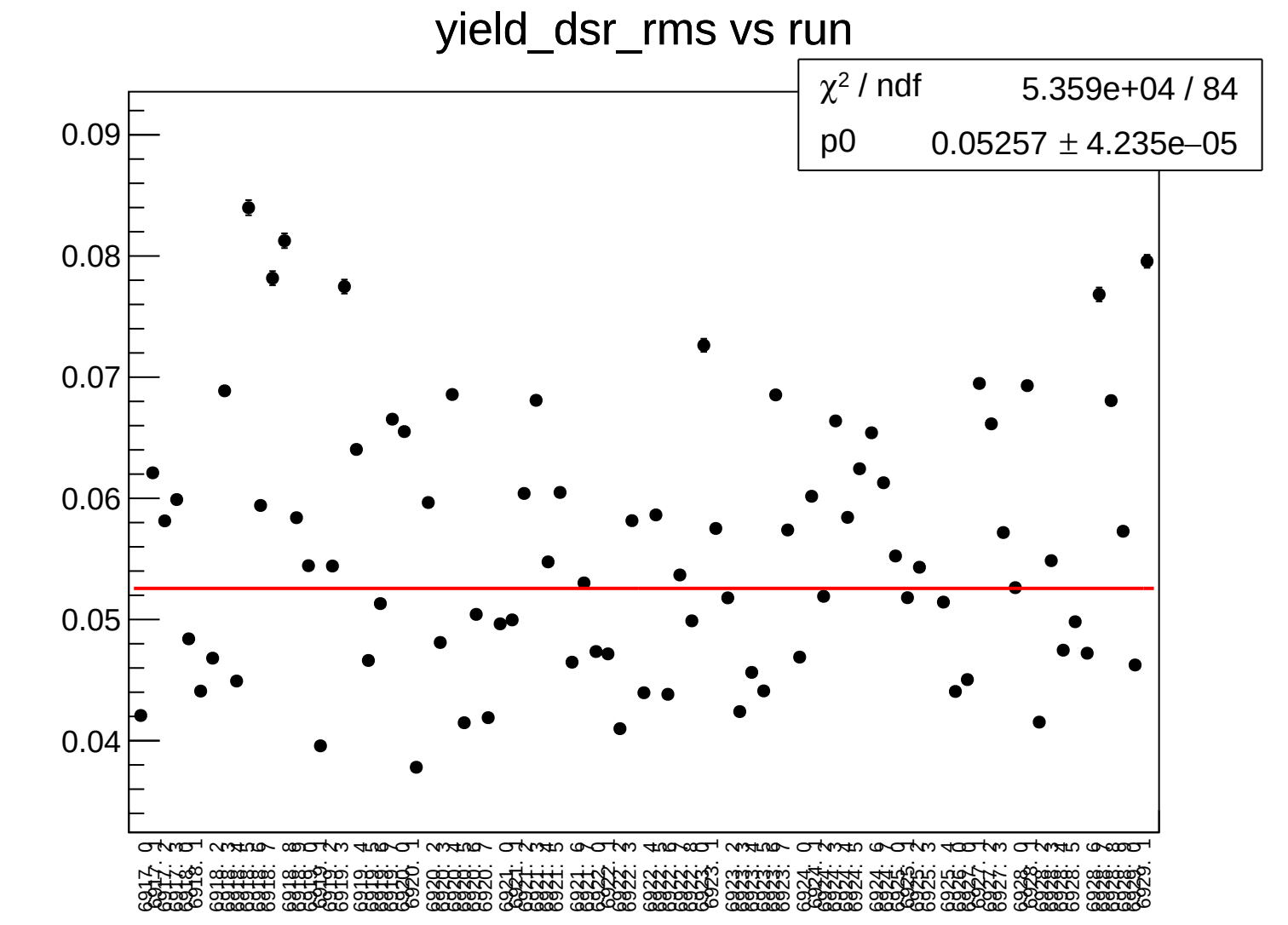

yield_dsl_mean vs run
χ² / ndf 5.744e+05 / 84
p0 82.42 ± 4.595e−05
82.52
82.5
82.48
82.46
82.44
82.42
82.4
82.38
82.36
82.34
82.32
pull
Entries 85
Mean −291.3
Std Dev 347.9
250
200
150
100
50
0
−50
−100
−150
−200

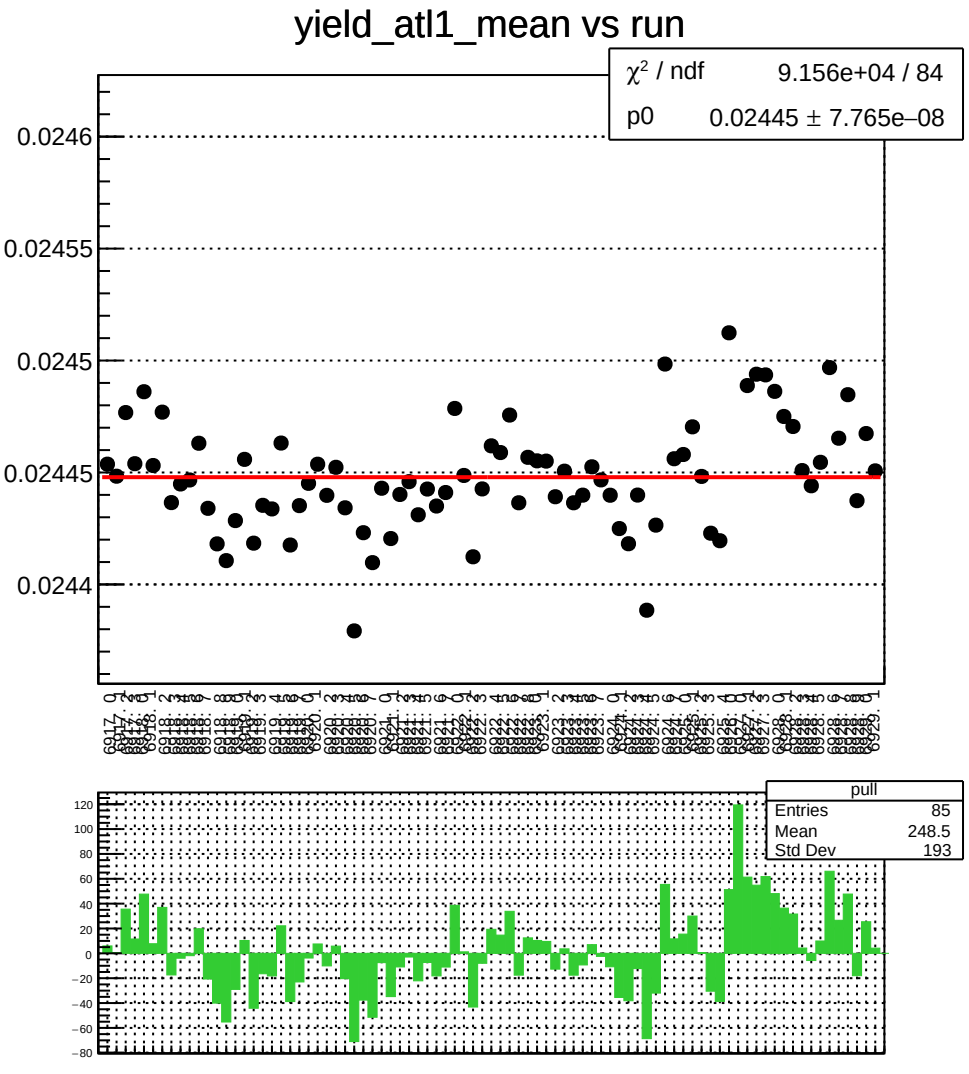

pull1D
Entries 85
Mean −0.8132
Std Dev 5.062
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

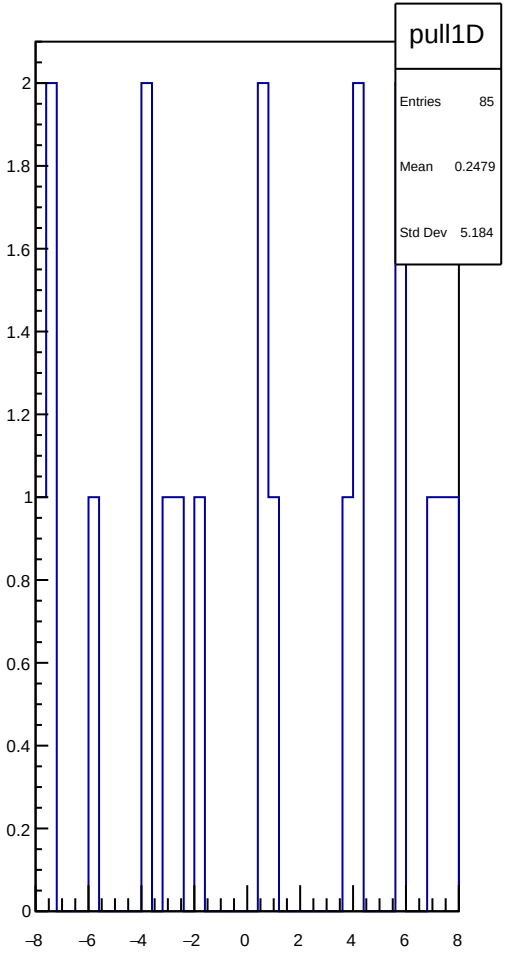

yield_dsl_rms vs run
χ² / ndf 1.591e+04 / 84
p0 0.04082 ± 3.249e–05
0.055
0.05
0.045
0.04
0.035

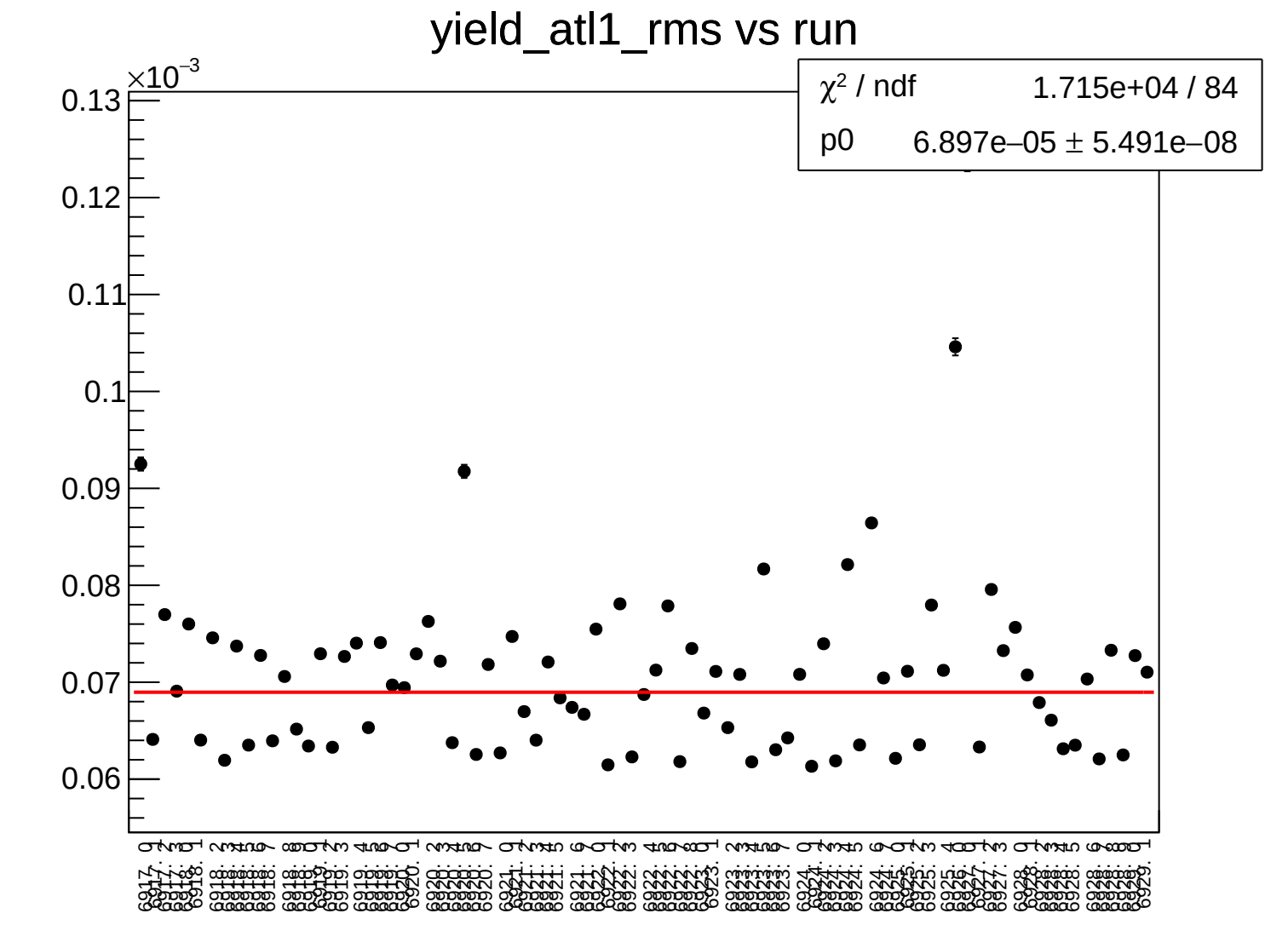

yield_dsr_mean vs run
χ² / ndf 2.403e+06 / 84
p0 −69.5 ± 5.989e−05
−69.2
−69.3
−69.4
−69.5
−69.6
−69.7
pull
Entries 85
Mean 396.2
Std Dev 351.6
400
300
200
100
0
−100
−200
−300
−400

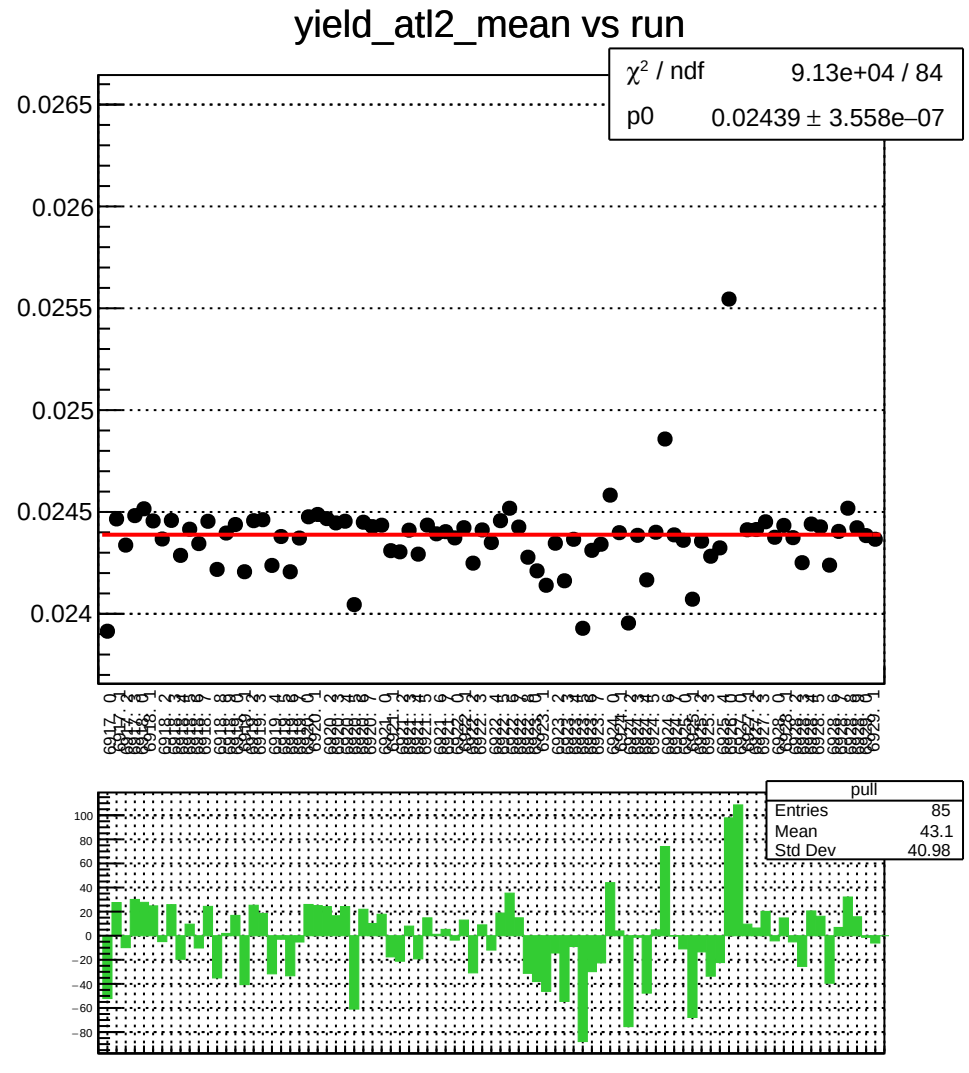

pull1D
Entries 85
Mean 0.07041
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

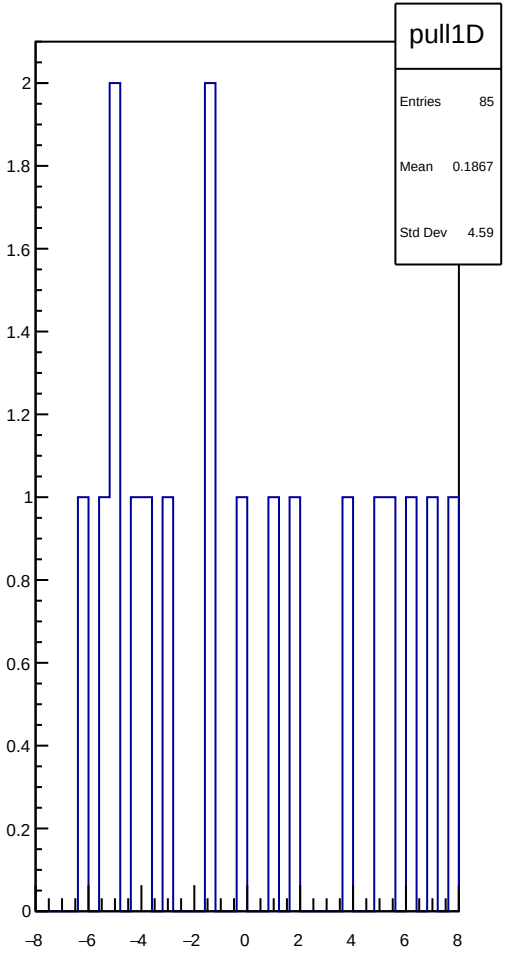

yield_dsr_rms vs run
χ² / ndf 5.359e+04 / 84
p0 0.05257 ± 4.235e−05
0.09
0.08
0.07
0.06
0.05
0.04

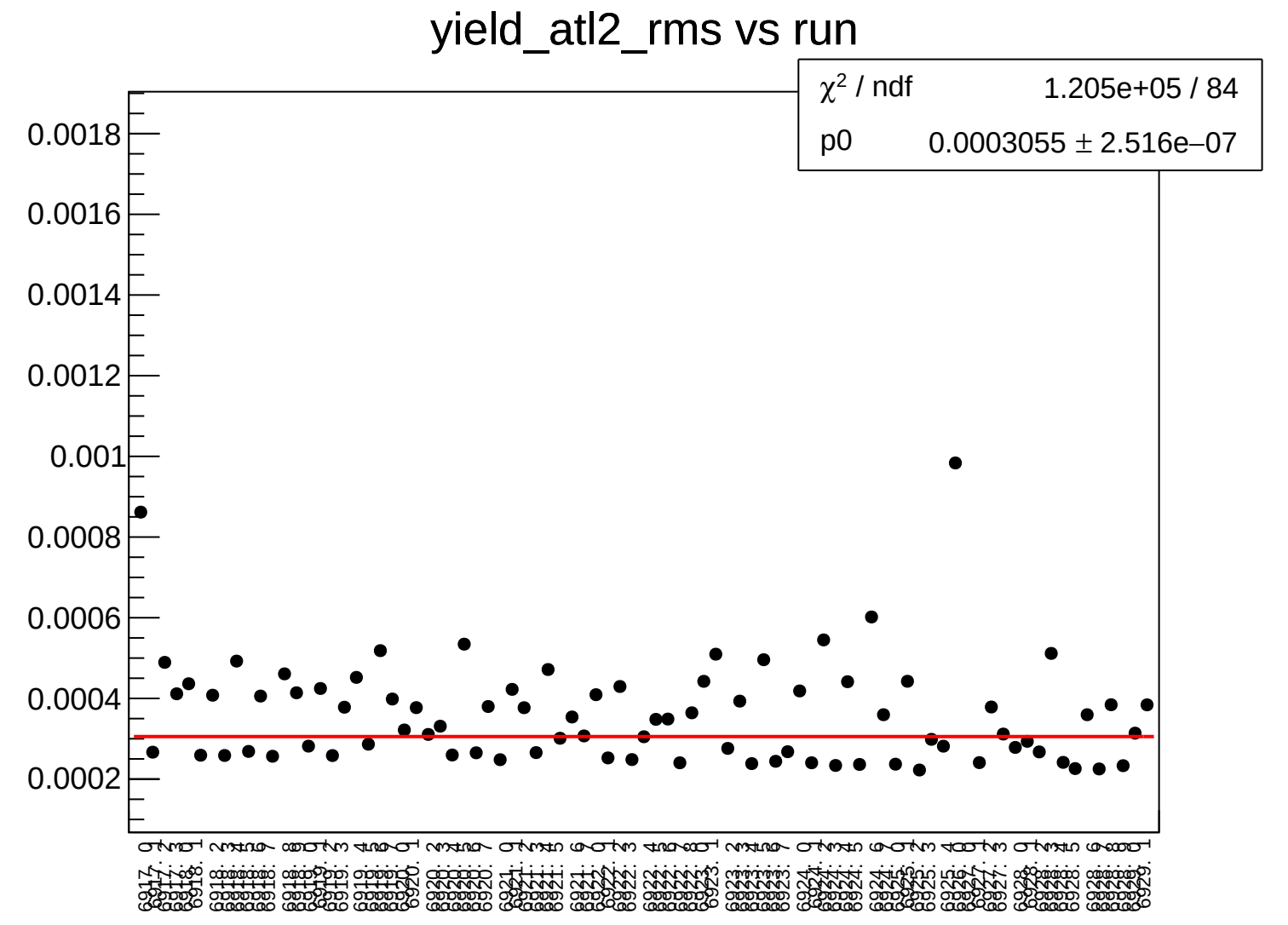

yield_atl1_mean vs run
χ² / ndf 9.156e+04 / 84
p0 0.02445 ± 7.765e−08
0.0246
0.02455
0.0245
0.02445
0.0244
pull
Entries 85
Mean 248.5
Std Dev 193
120
100
80
60
40
20
0
−20
−40
−60
−80

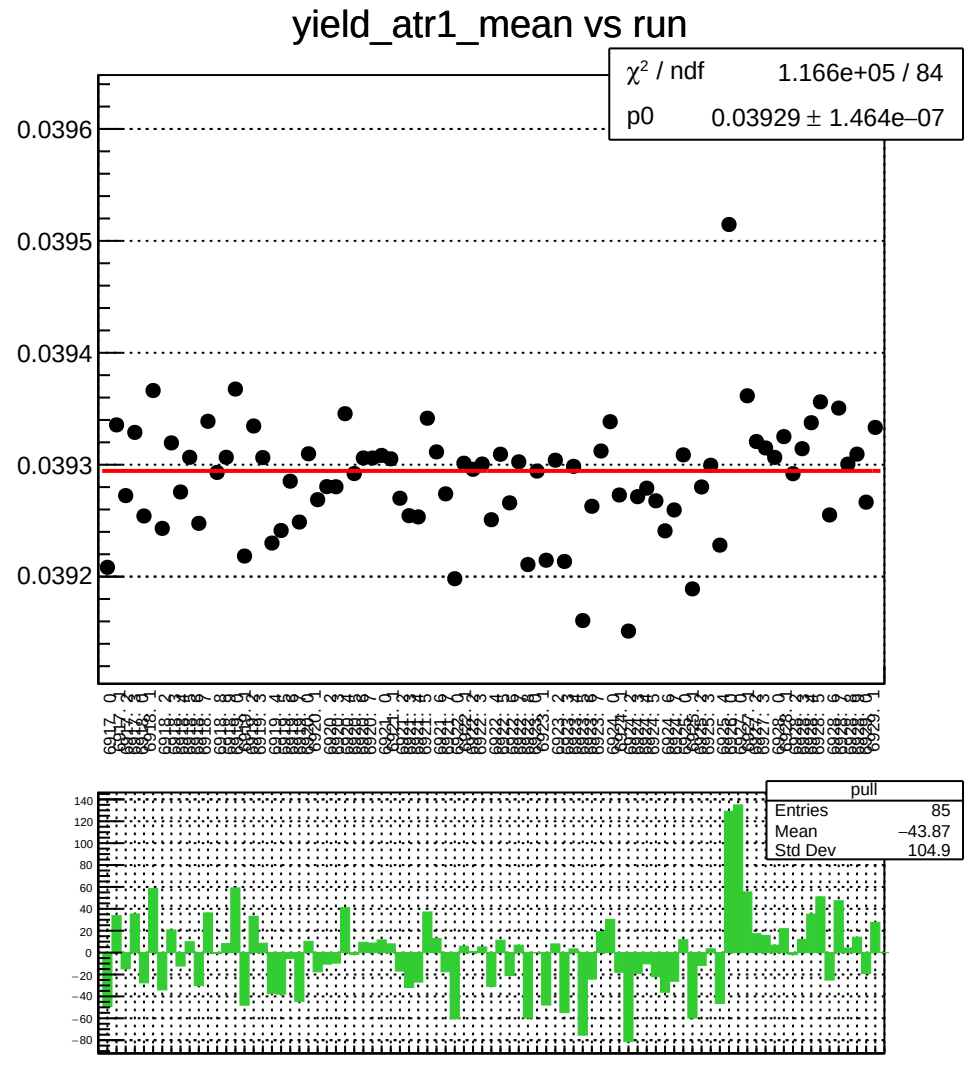

pull1D
Entries 85
Mean 0.2479
Std Dev 5.184
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

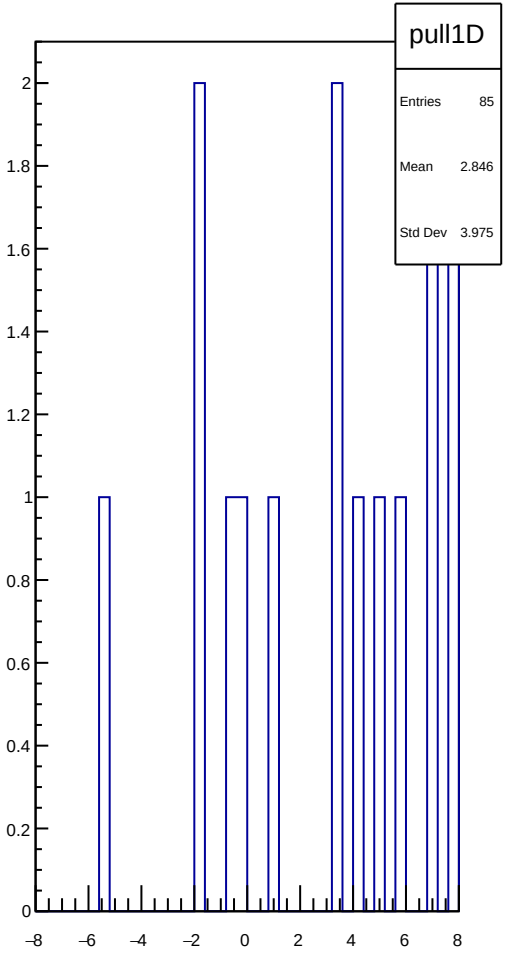

yield_atl1_rms vs run
×10⁻³
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
χ² / ndf 1.715e+04 / 84
p0 6.897e−05 ± 5.491e−08

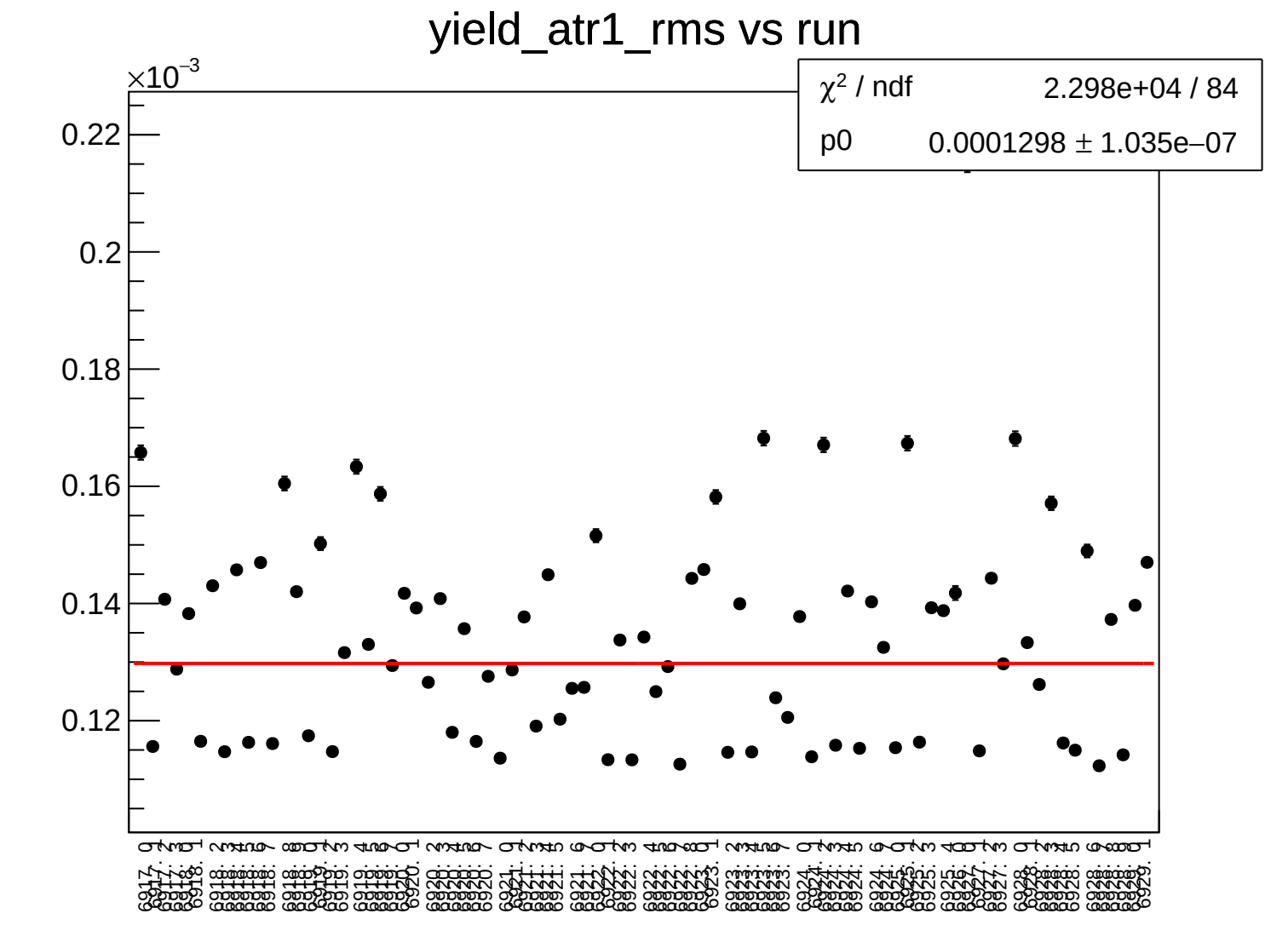

yield_atl2_mean vs run
χ² / ndf 9.13e+04 / 84
p0 0.02439 ± 3.558e−07
0.0265
0.026
0.0255
0.025
0.0245
0.024
pull
Entries 85
Mean 43.1
Std Dev 40.98
100
80
60
40
20
0
−20
−40
−60
−80

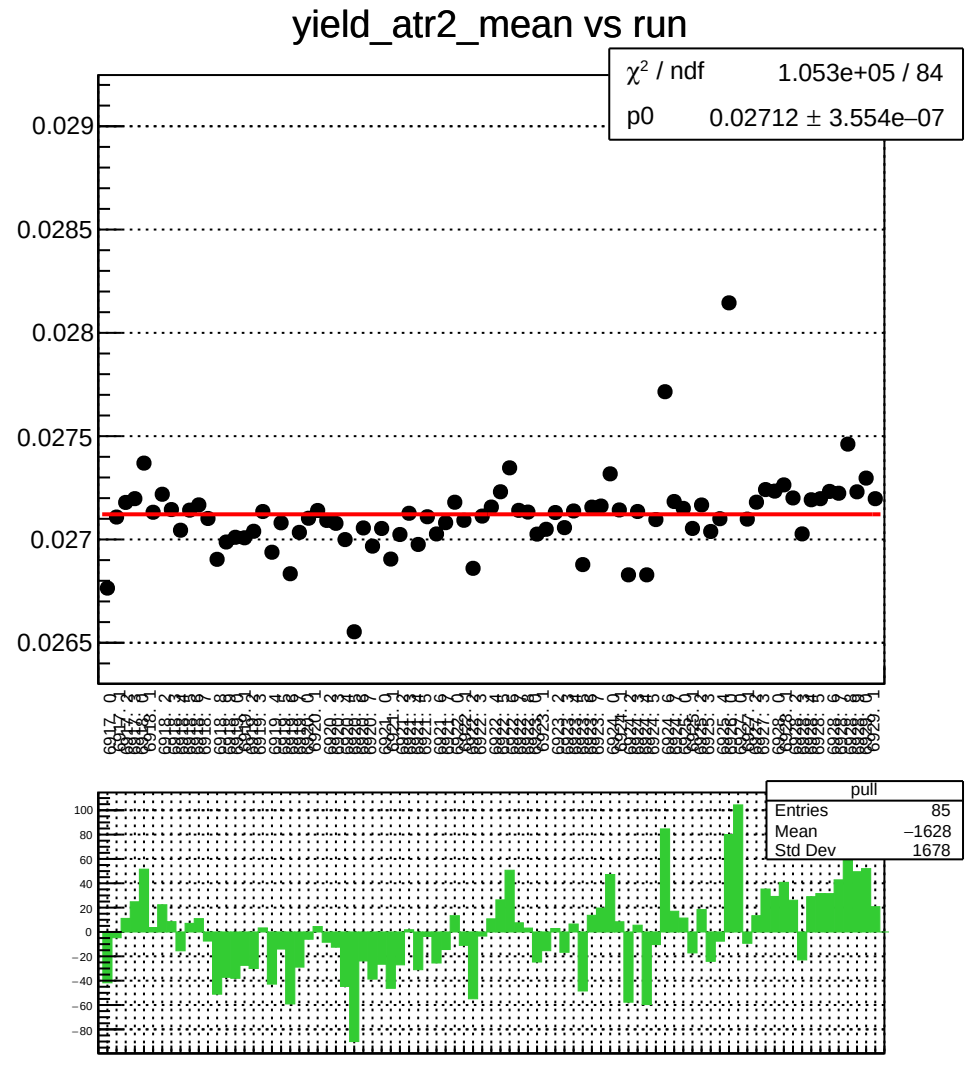

pull1D
Entries 85
Mean 0.1867
Std Dev 4.59
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

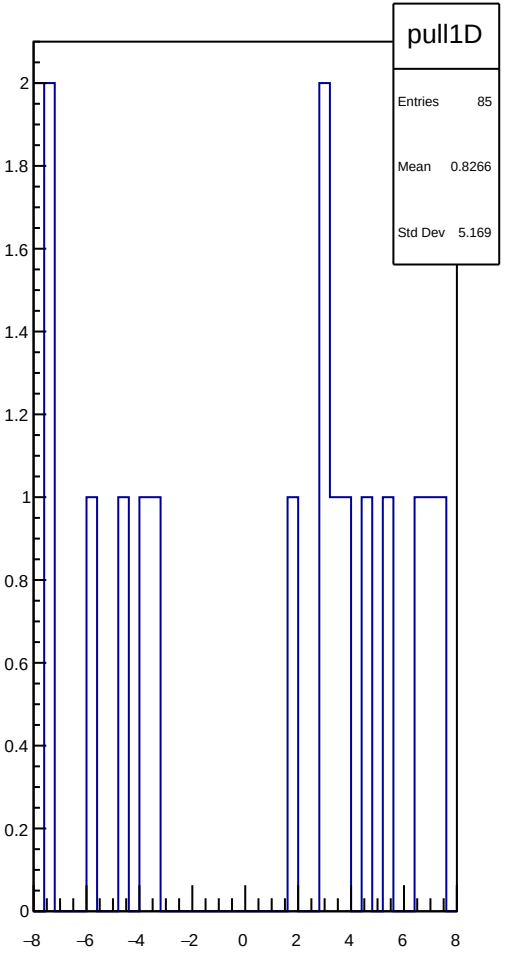

yield_atl2_rms vs run
χ^2 / ndf 1.205e+05 / 84
p0 0.0003055 ± 2.516e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

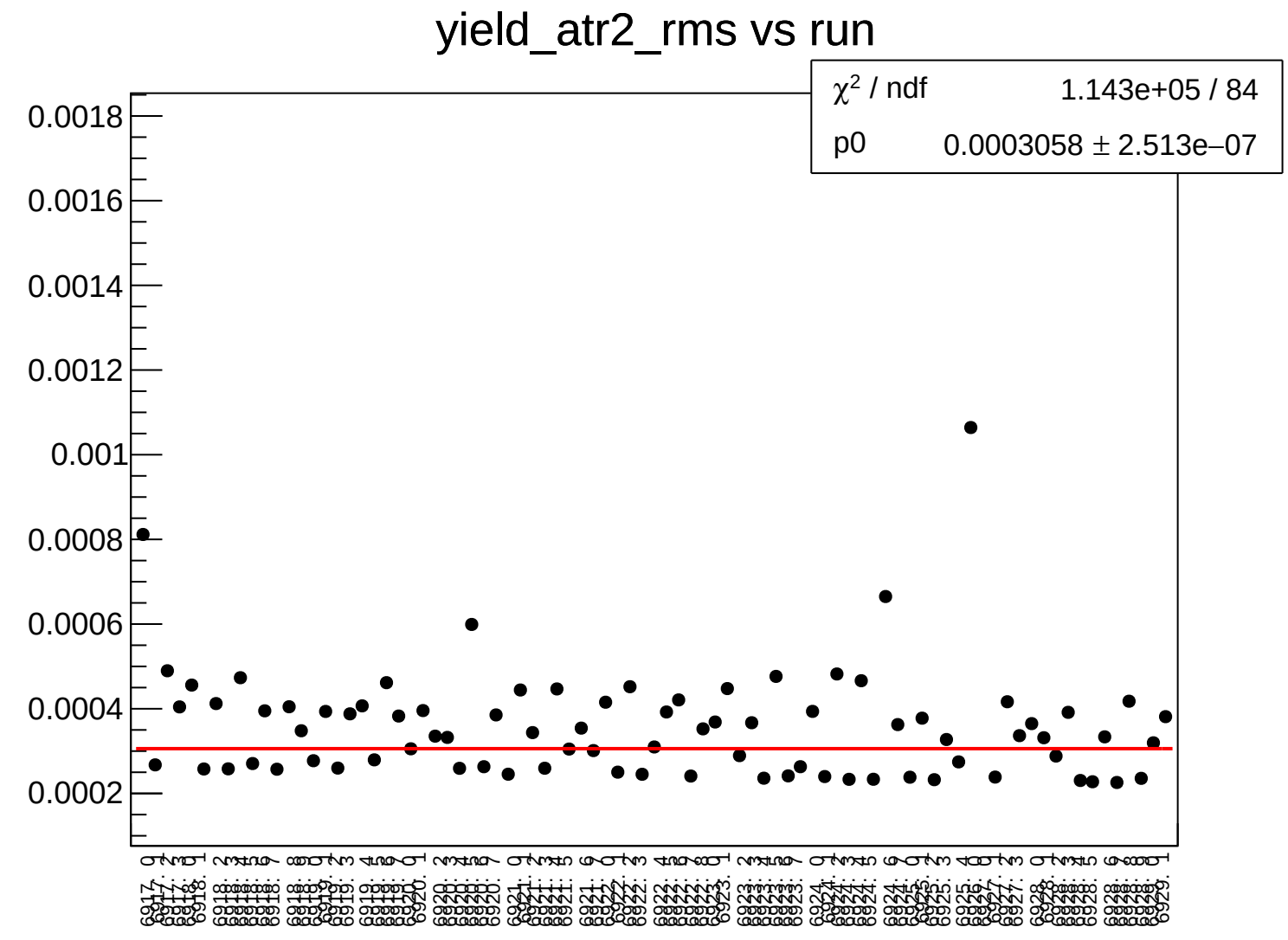

yield_atr1_mean vs run
χ² / ndf 1.166e+05 / 84
p0 0.03929 ± 1.464e−07
0.0396
0.0395
0.0394
0.0393
0.0392
pull
Entries 85
Mean −43.87
Std Dev 104.9
140
120
100
80
60
40
20
0
−20
−40
−60
−80

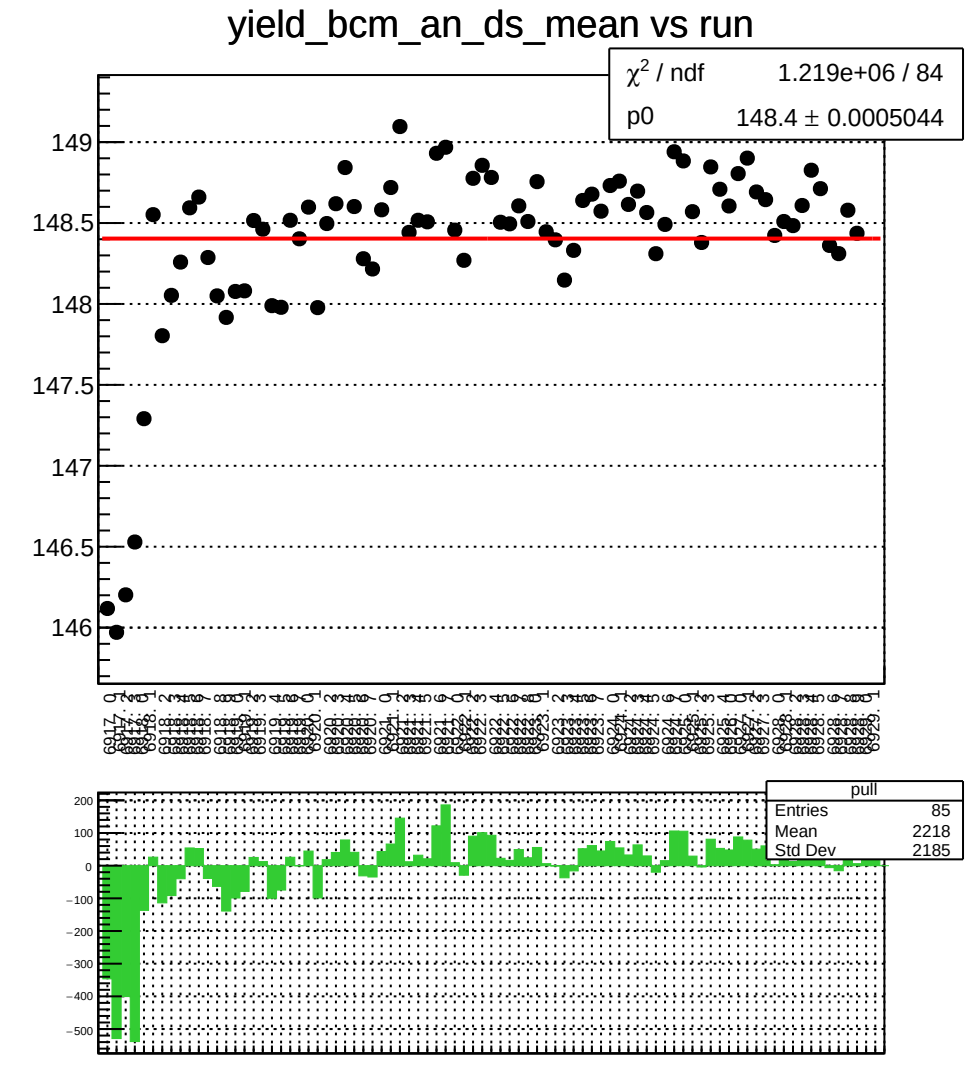

pull1D
Entries 85
Mean 2.846
Std Dev 3.975
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

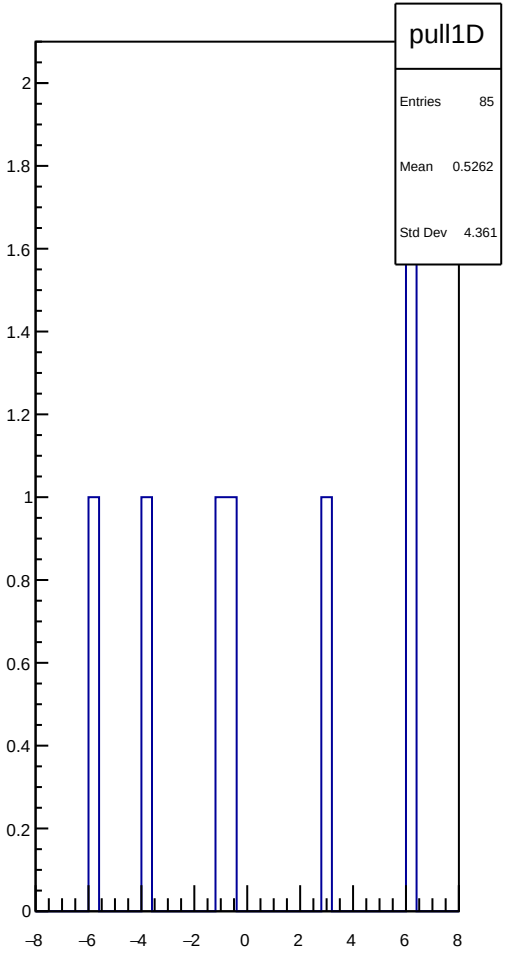

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.298e+04 / 84
p0 0.0001298 ± 1.035e−07
0.22
0.2
0.18
0.16
0.14
0.12

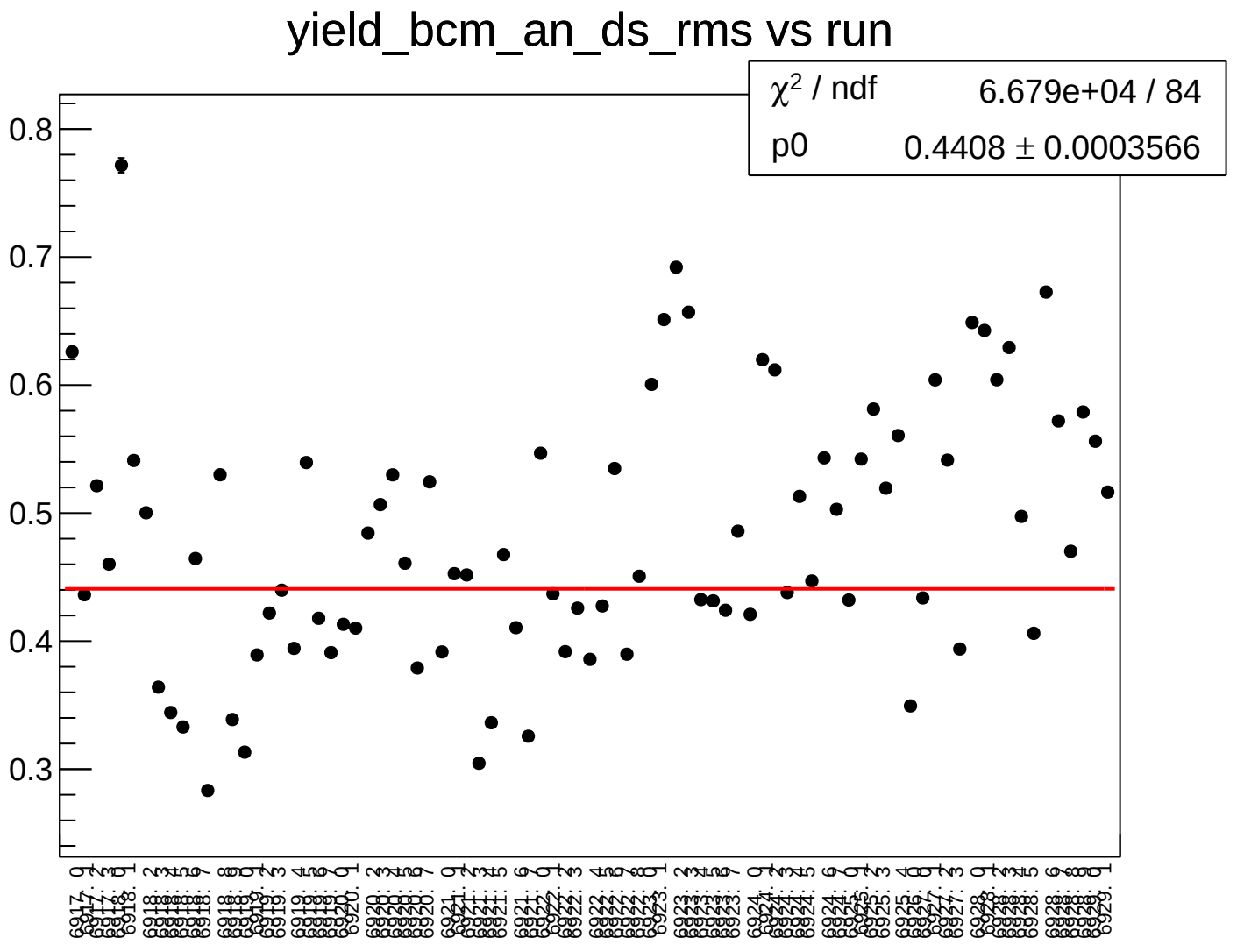

yield_atr2_mean vs run
χ² / ndf 1.053e+05 / 84
p0 0.02712 ± 3.554e−07
0.029
0.0285
0.028
0.0275
0.027
0.0265
pull
Entries 85
Mean −1628
Std Dev 1678
100
80
60
40
20
0
−20
−40
−60
−80

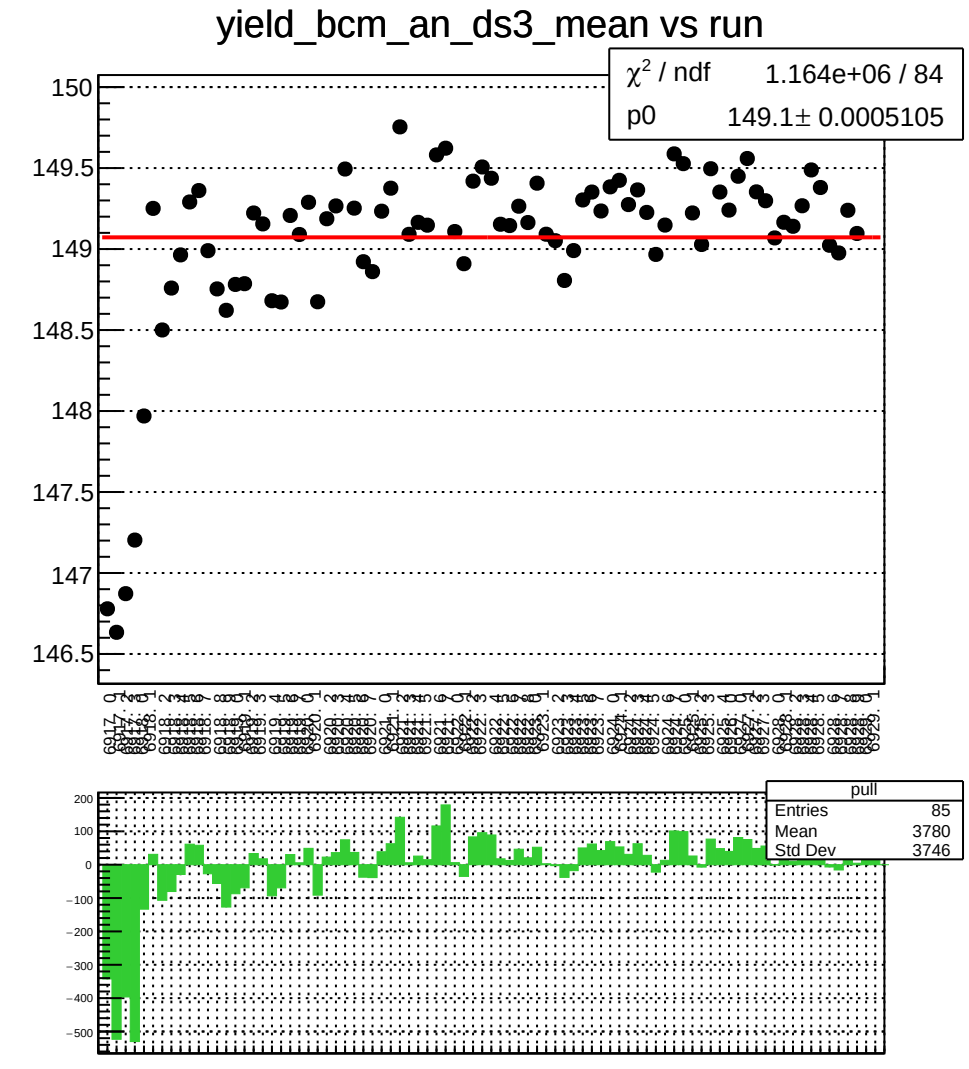

pull1D
Entries 85
Mean 0.8266
Std Dev 5.169
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

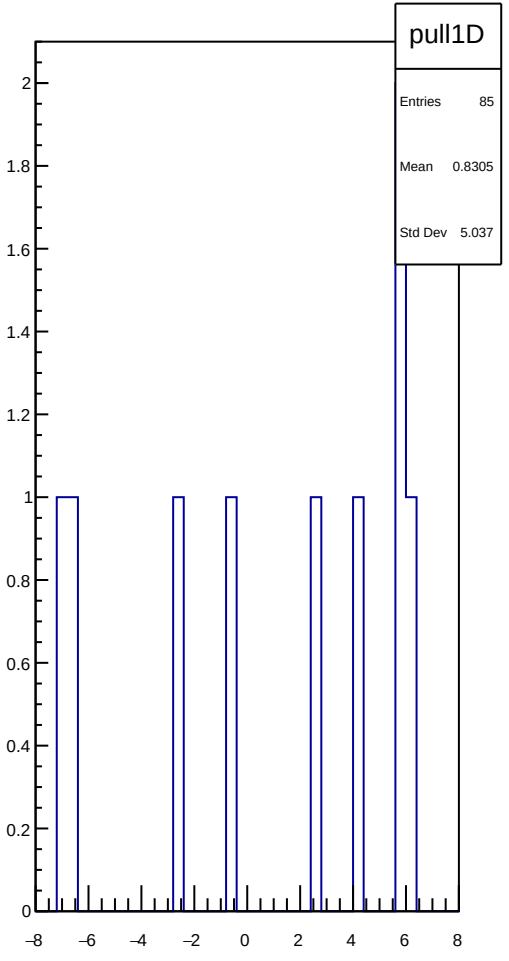

yield_atr2_rms vs run
χ² / ndf 1.143e+05 / 84
p0 0.0003058 ± 2.513e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

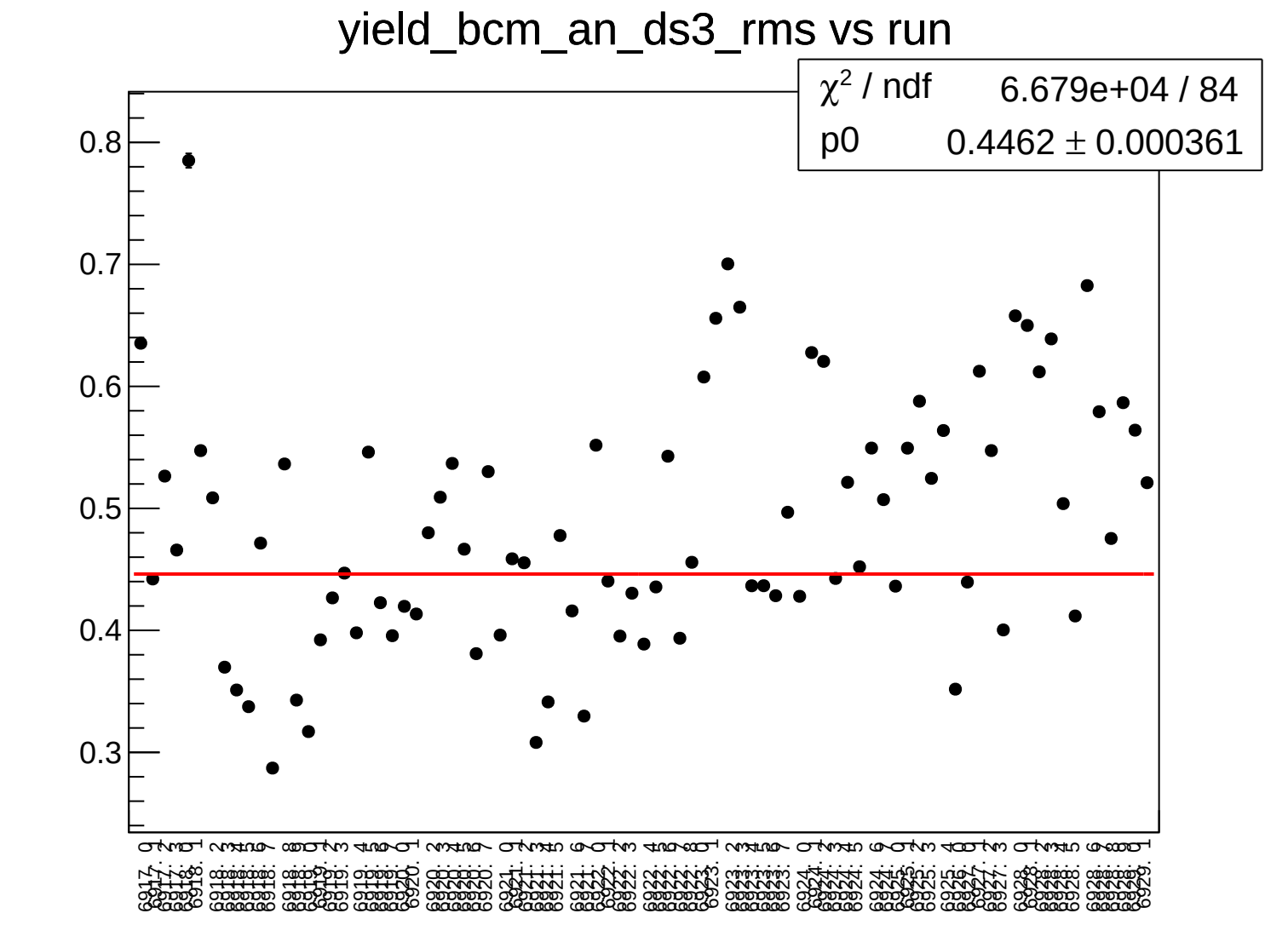

yield_bcm_an_ds_mean vs run
χ² / ndf 1.219e+06 / 84
p0 148.4 ± 0.0005044
149
148.5
148
147.5
147
146.5
146
pull
Entries 85
Mean 2218
Std Dev 2185
200
100
0
−100
−200
−300
−400
−500

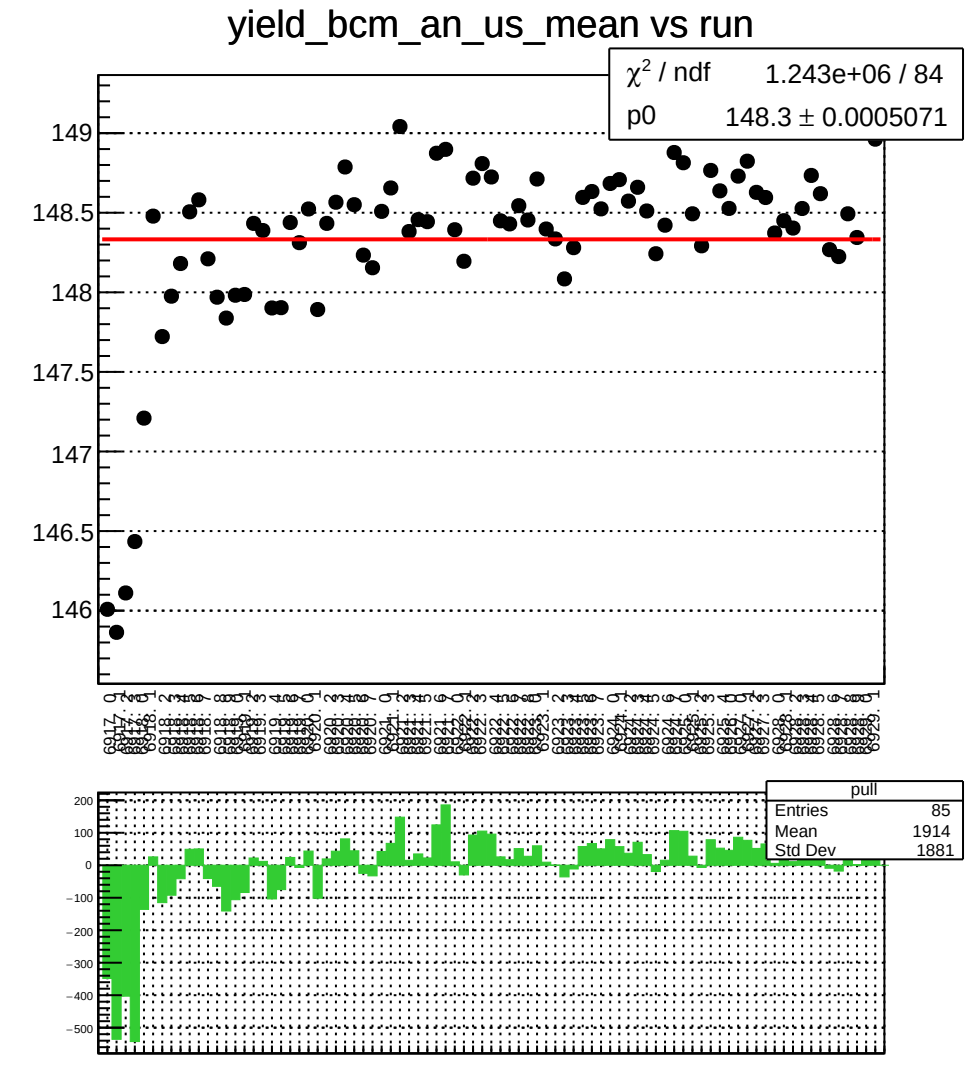

pull1D
Entries 85
Mean 0.5262
Std Dev 4.361
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

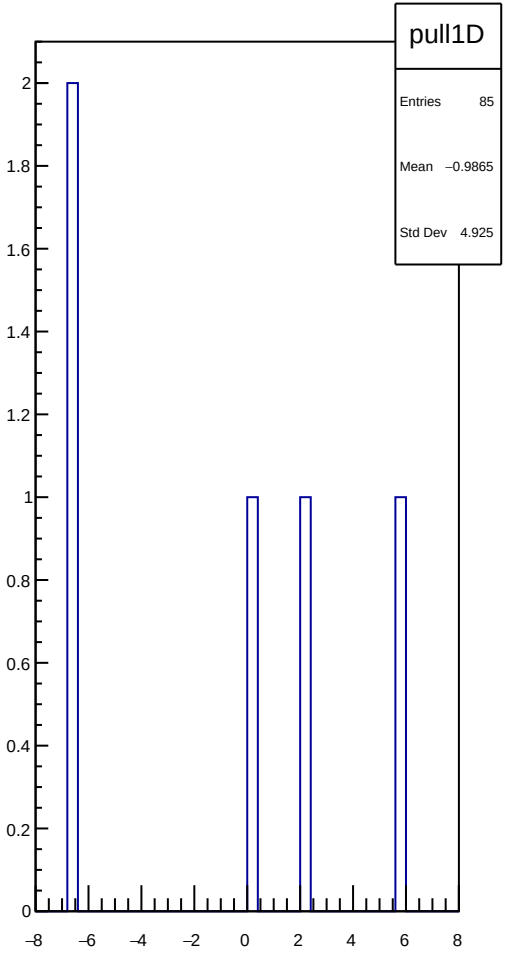

yield_bcm_an_ds_rms vs run
χ² / ndf 6.679e+04 / 84
p0 0.4408 ± 0.0003566
0.8
0.7
0.6
0.5
0.4
0.3

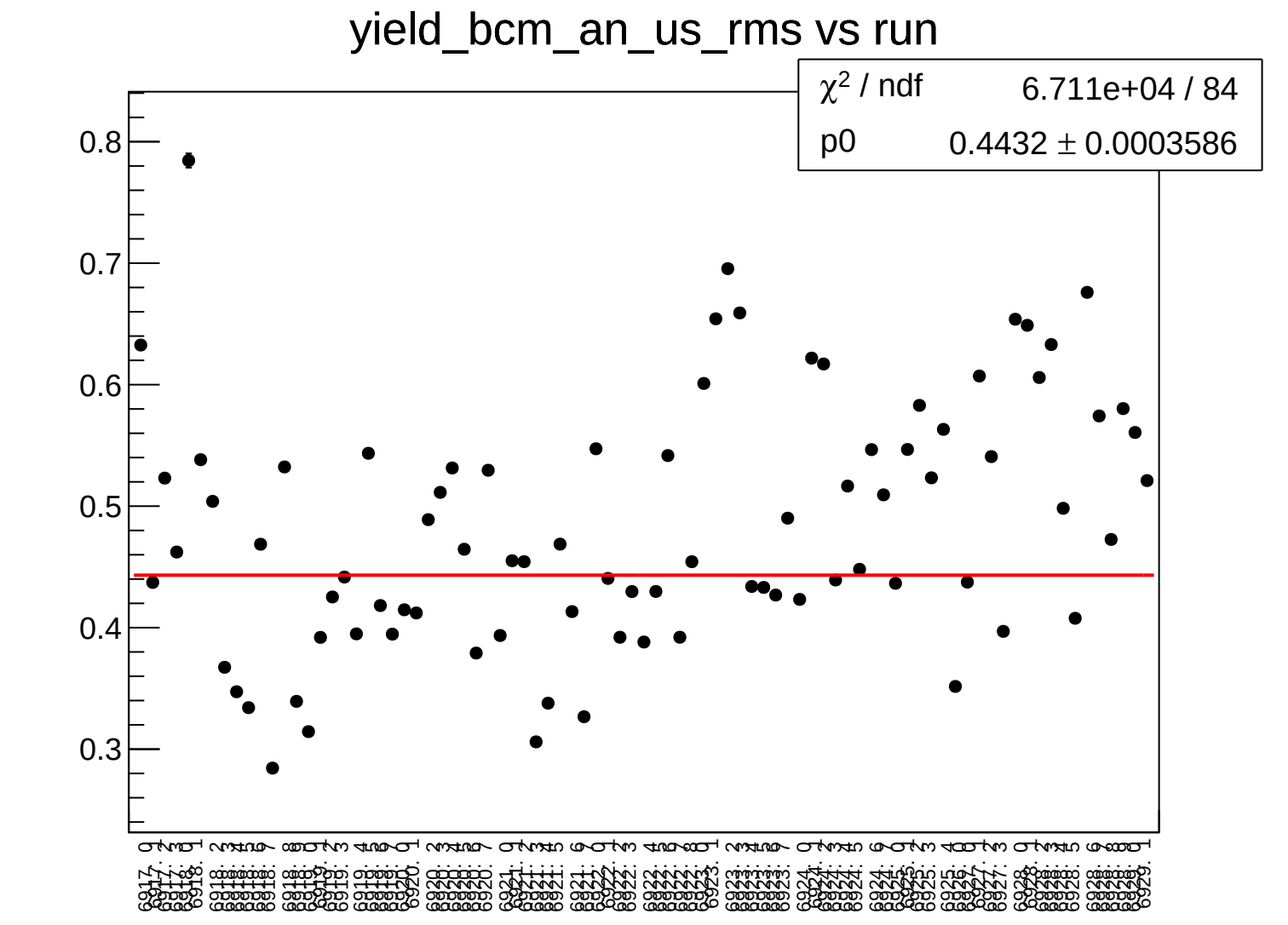

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.164e+06 / 84
p0 149.1± 0.0005105
150
149.5
149
148.5
148
147.5
147
146.5
pull
Entries 85
Mean 3780
Std Dev 3746
200
100
0
−100
−200
−300
−400
−500

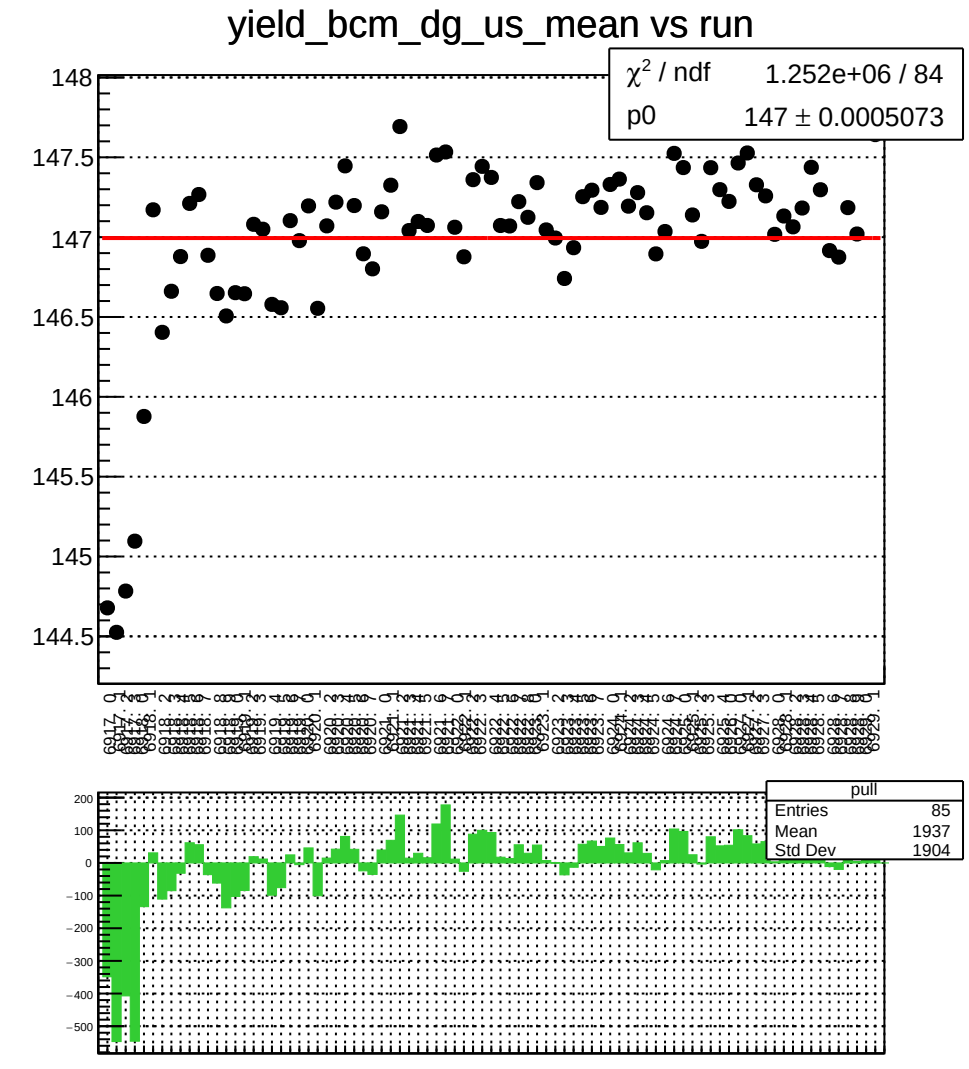

pull1D
Entries 85
Mean 0.8305
Std Dev 5.037
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

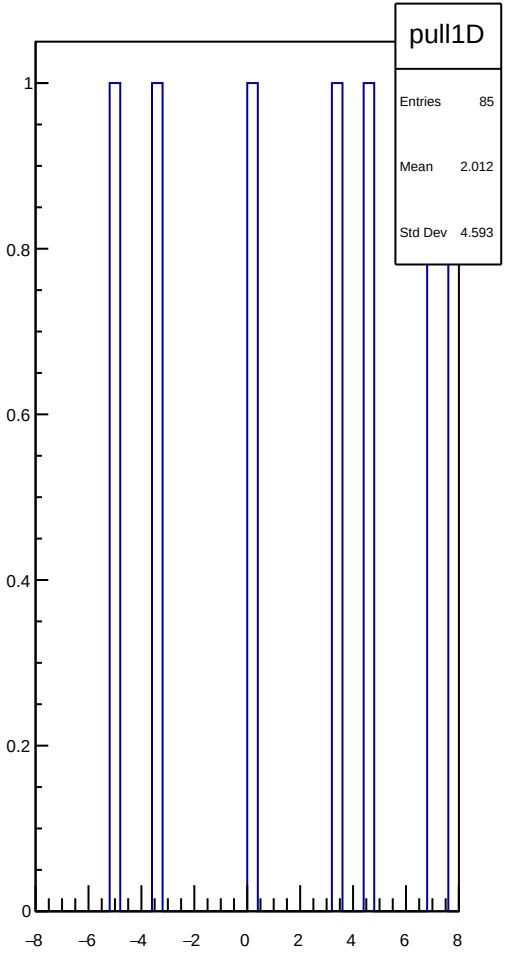

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 6.679e+04 / 84
p0 0.4462 ± 0.000361
0.8
0.7
0.6
0.5
0.4
0.3

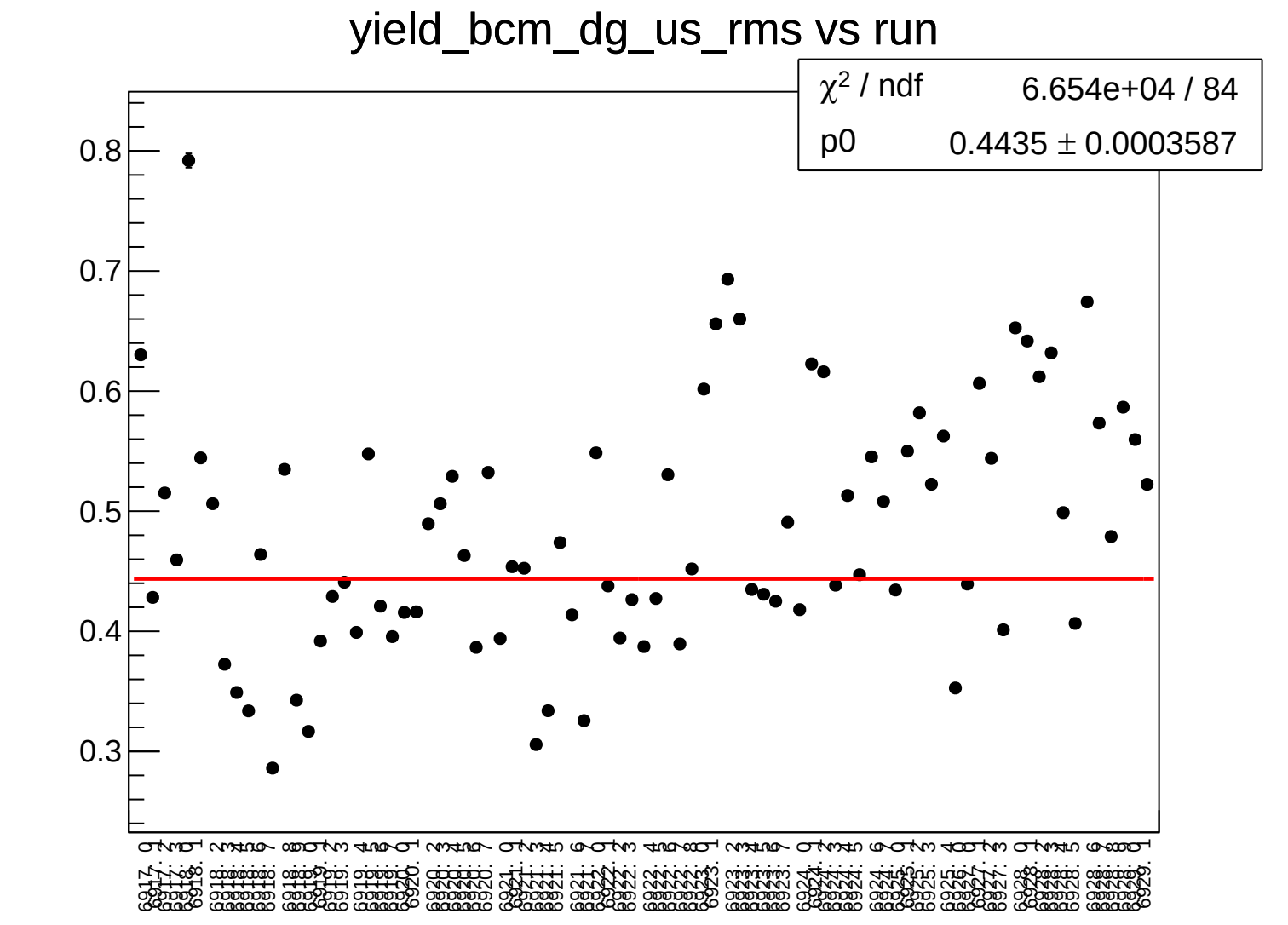

yield_bcm_an_us_mean vs run
χ² / ndf 1.243e+06 / 84
p0 148.3 ± 0.0005071
149
148.5
148
147.5
147
146.5
146
pull
Entries 85
Mean 1914
Std Dev 1881
200
100
0
−100
−200
−300
−400
−500

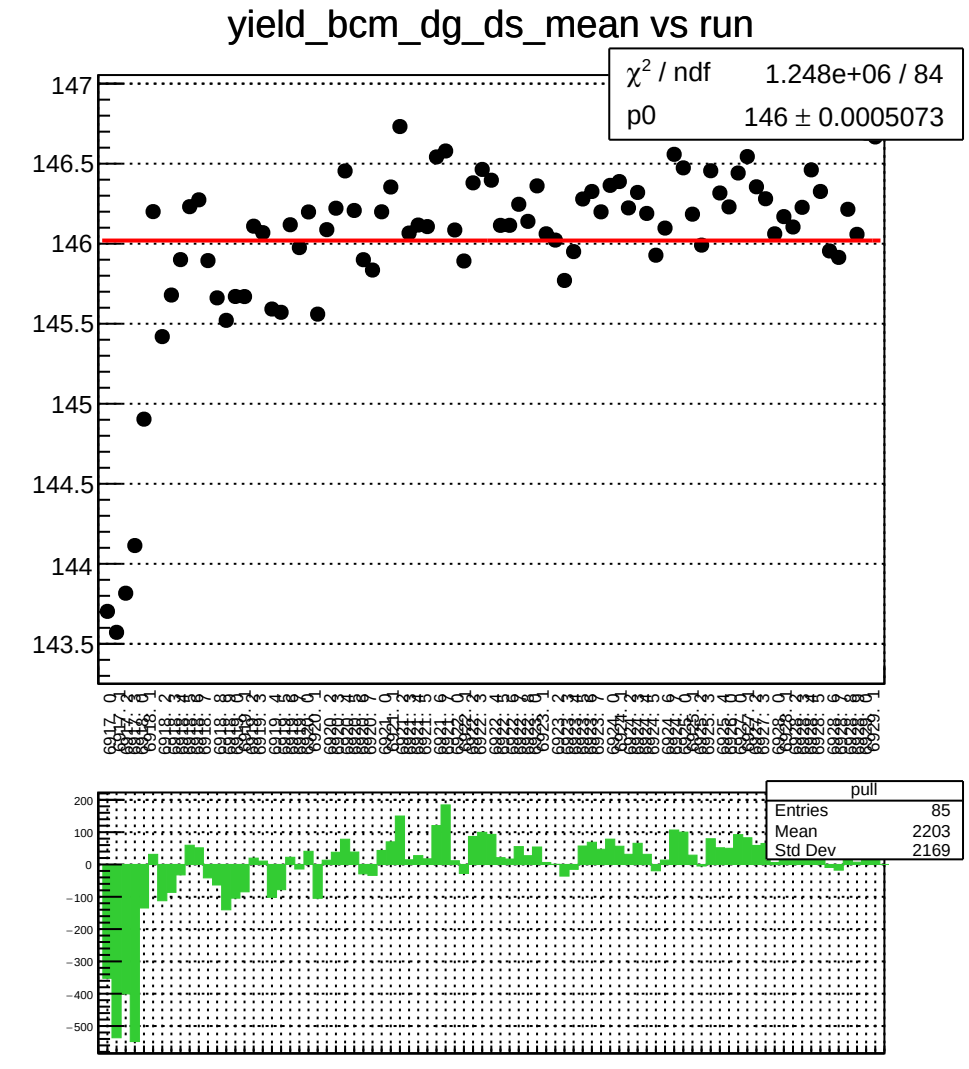

pull1D
Entries 85
Mean −0.9865
Std Dev 4.925
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

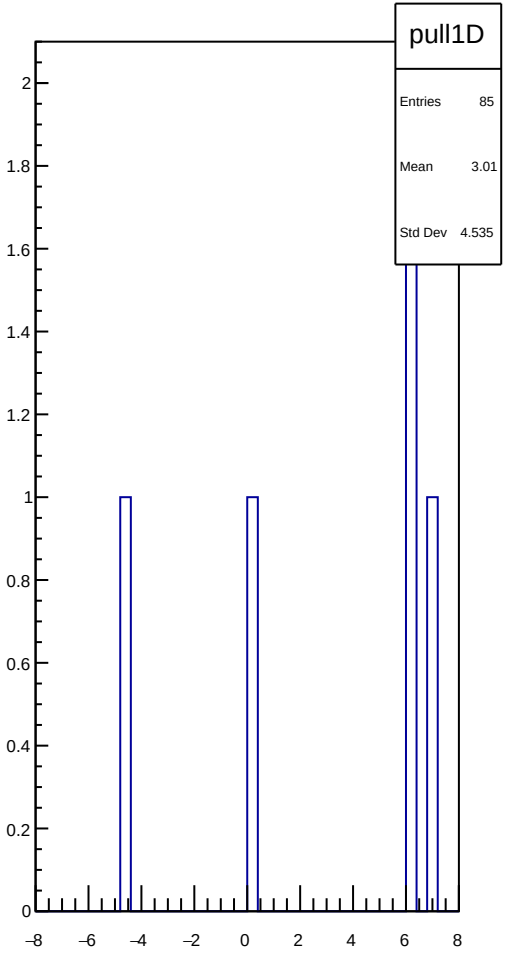

yield_bcm_an_us_rms vs run
χ² / ndf 6.711e+04 / 84
p0 0.4432 ± 0.0003586
0.8
0.7
0.6
0.5
0.4
0.3

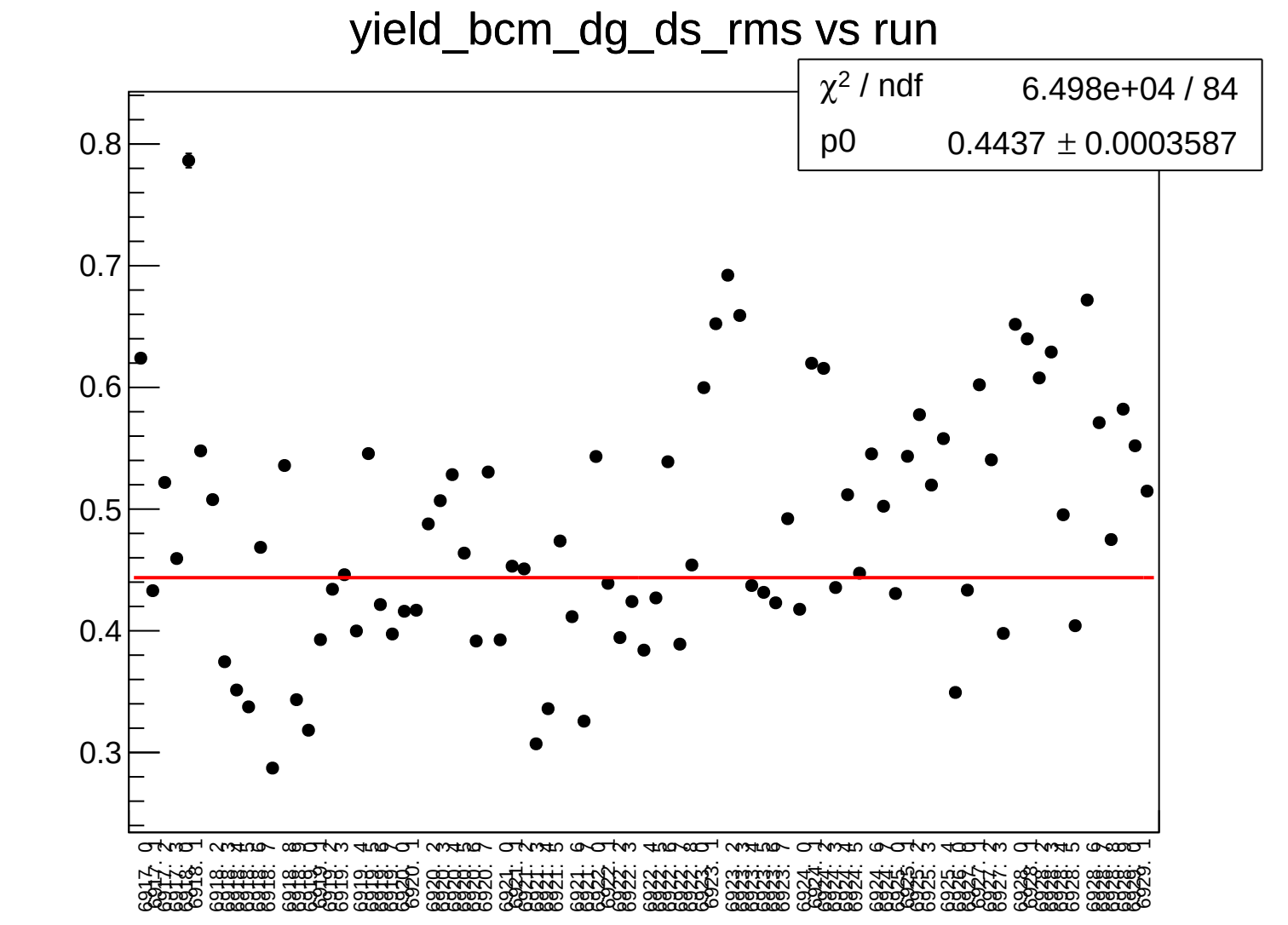

yield_bcm_dg_us_mean vs run
χ² / ndf 1.252e+06 / 84
p0 147 ± 0.0005073
148
147.5
147
146.5
146
145.5
145
144.5
pull
Entries 85
Mean 1937
Std Dev 1904
200
100
0
−100
−200
−300
−400
−500

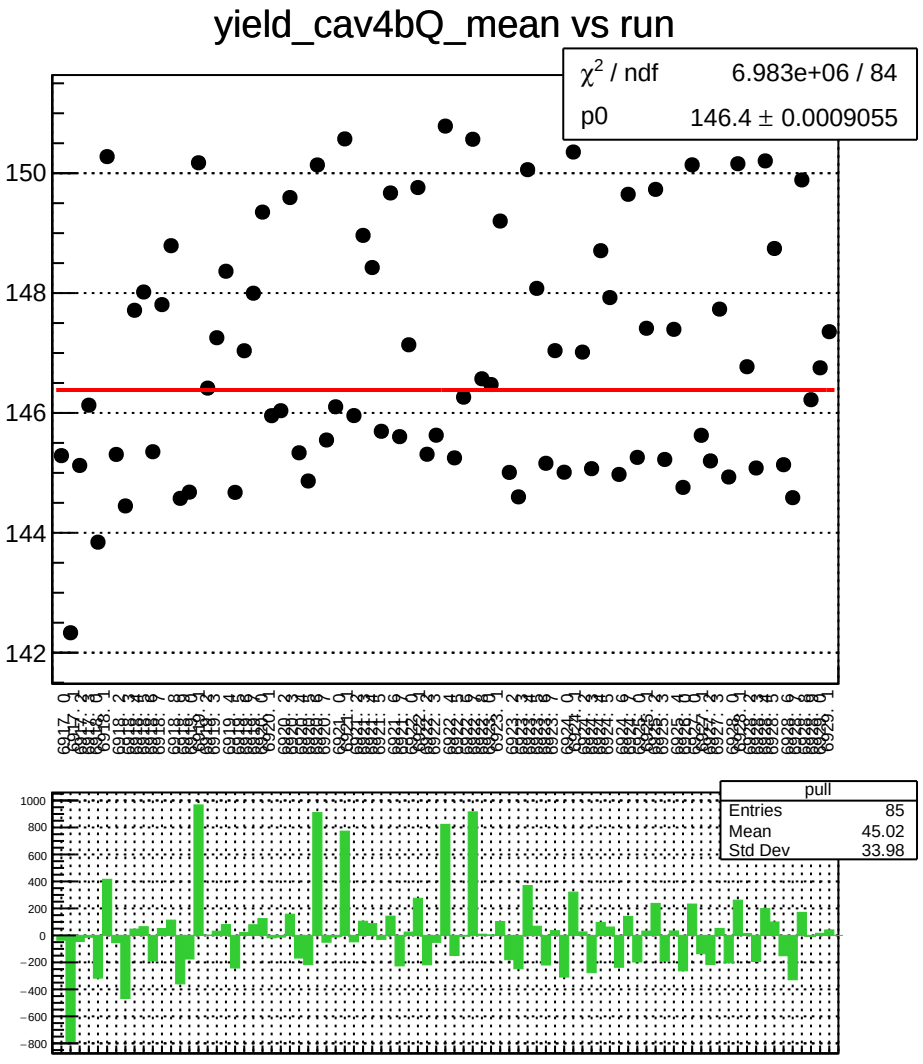

pull1D
Entries 85
Mean 2.012
Std Dev 4.593
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

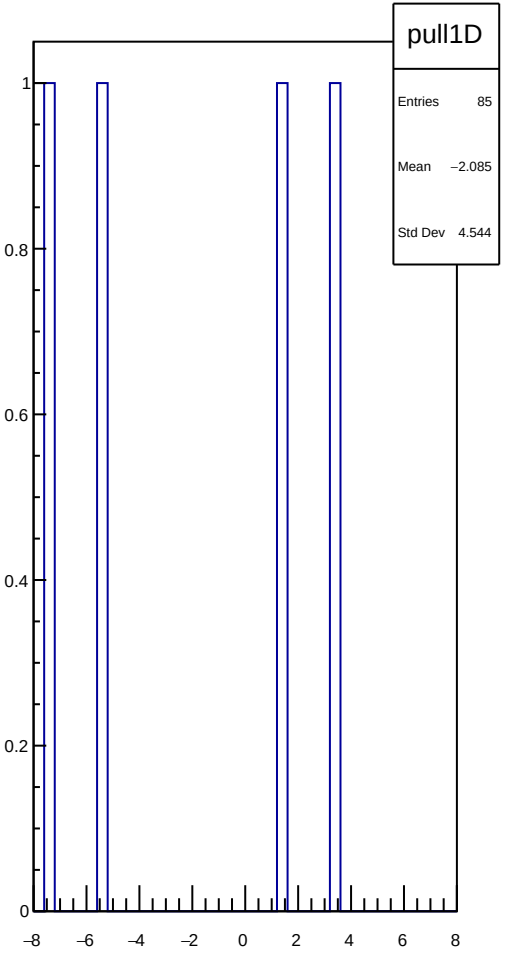

yield_bcm_dg_us_rms vs run
χ² / ndf 6.654e+04 / 84
p0 0.4435 ± 0.0003587
0.8
0.7
0.6
0.5
0.4
0.3

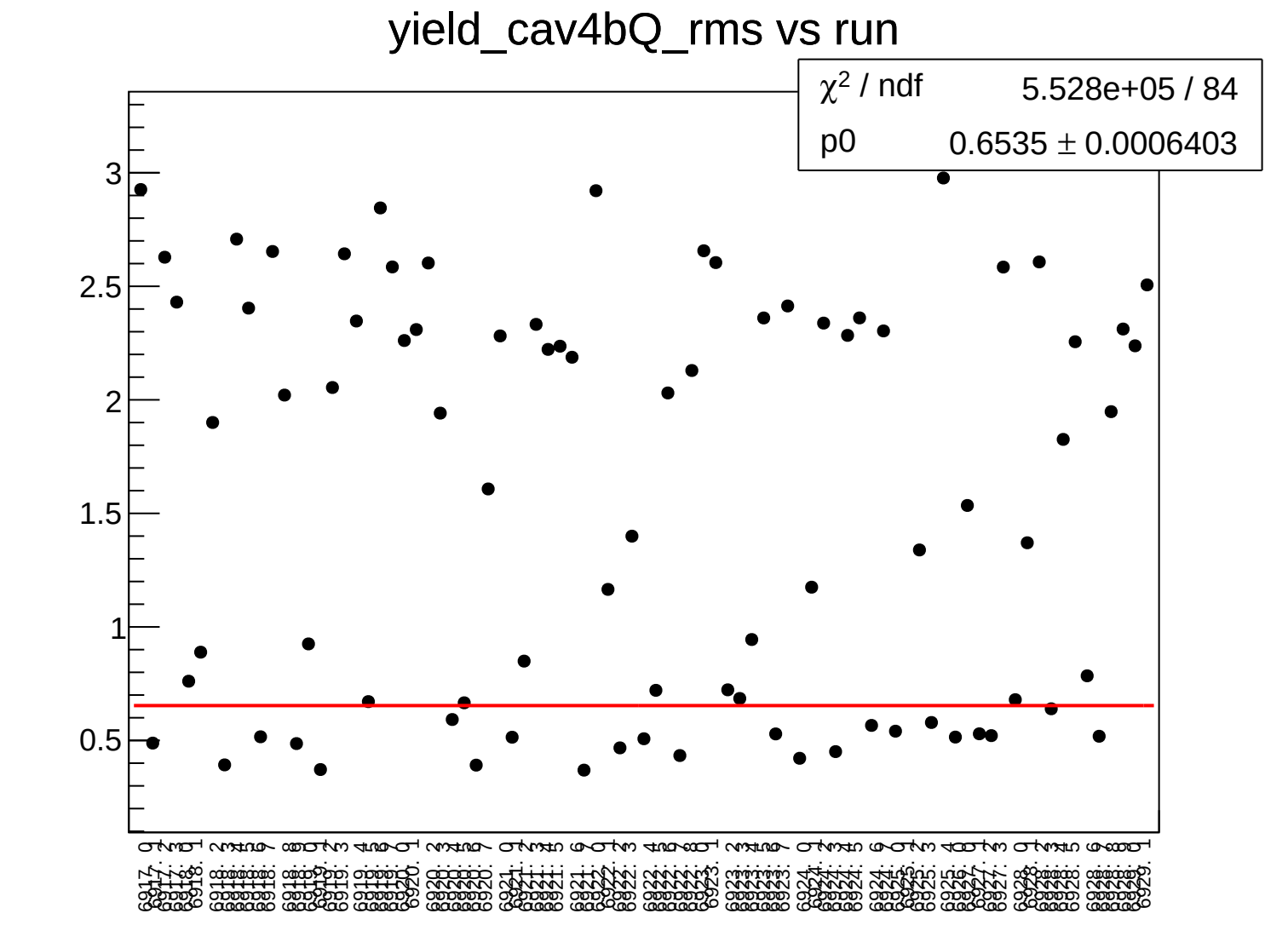

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.248e+06 / 84
p0 146 ± 0.0005073
147
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 85
Mean 2203
Std Dev 2169
200
100
0
−100
−200
−300
−400
−500

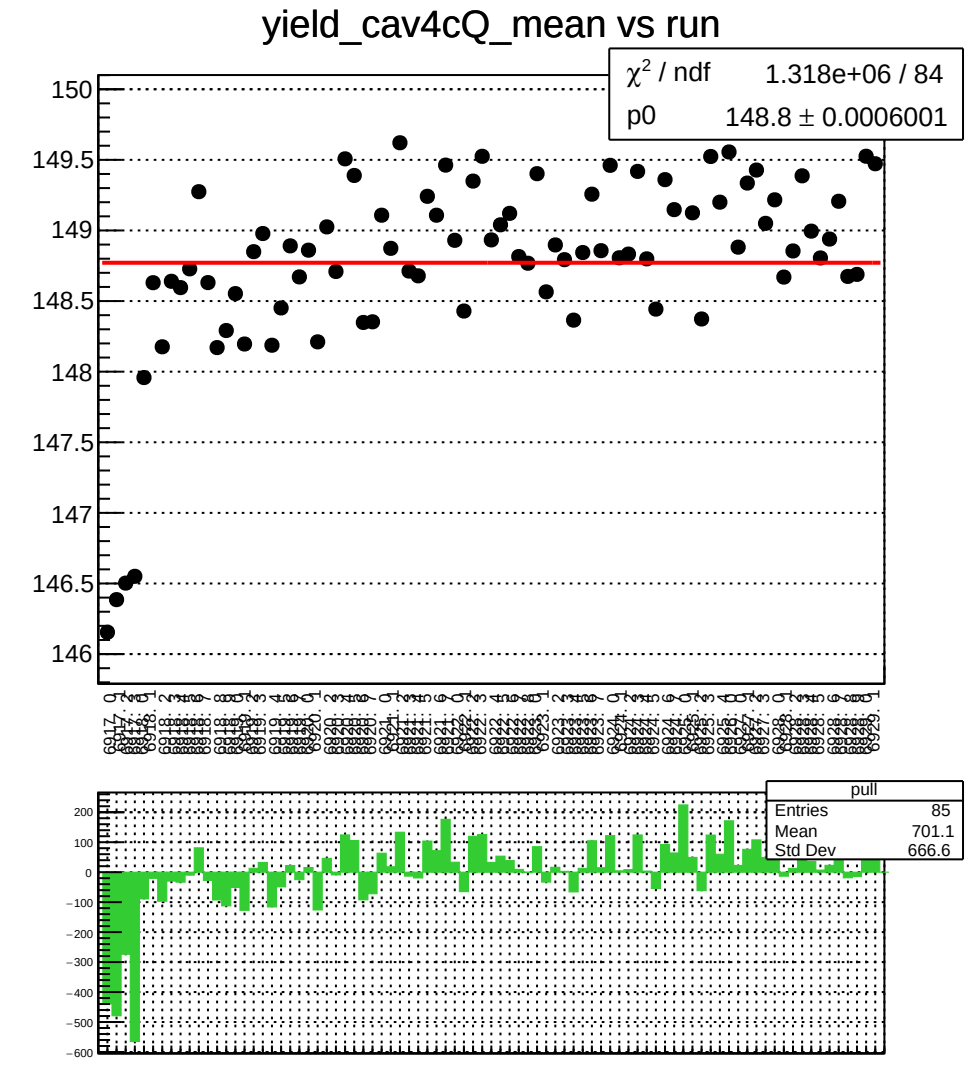

pull1D
Entries 85
Mean 3.01
Std Dev 4.535
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

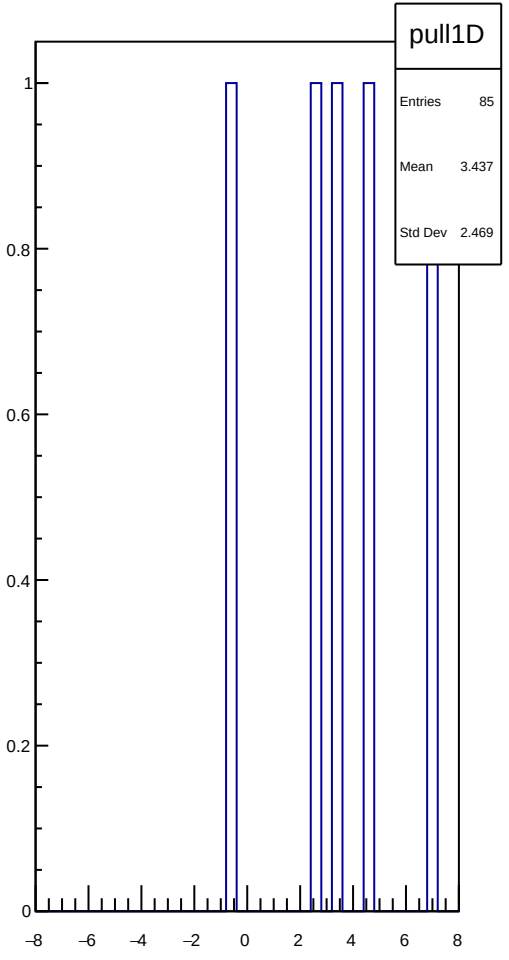

yield_bcm_dg_ds_rms vs run
χ² / ndf 6.498e+04 / 84
p0 0.4437 ± 0.0003587
0.8
0.7
0.6
0.5
0.4
0.3

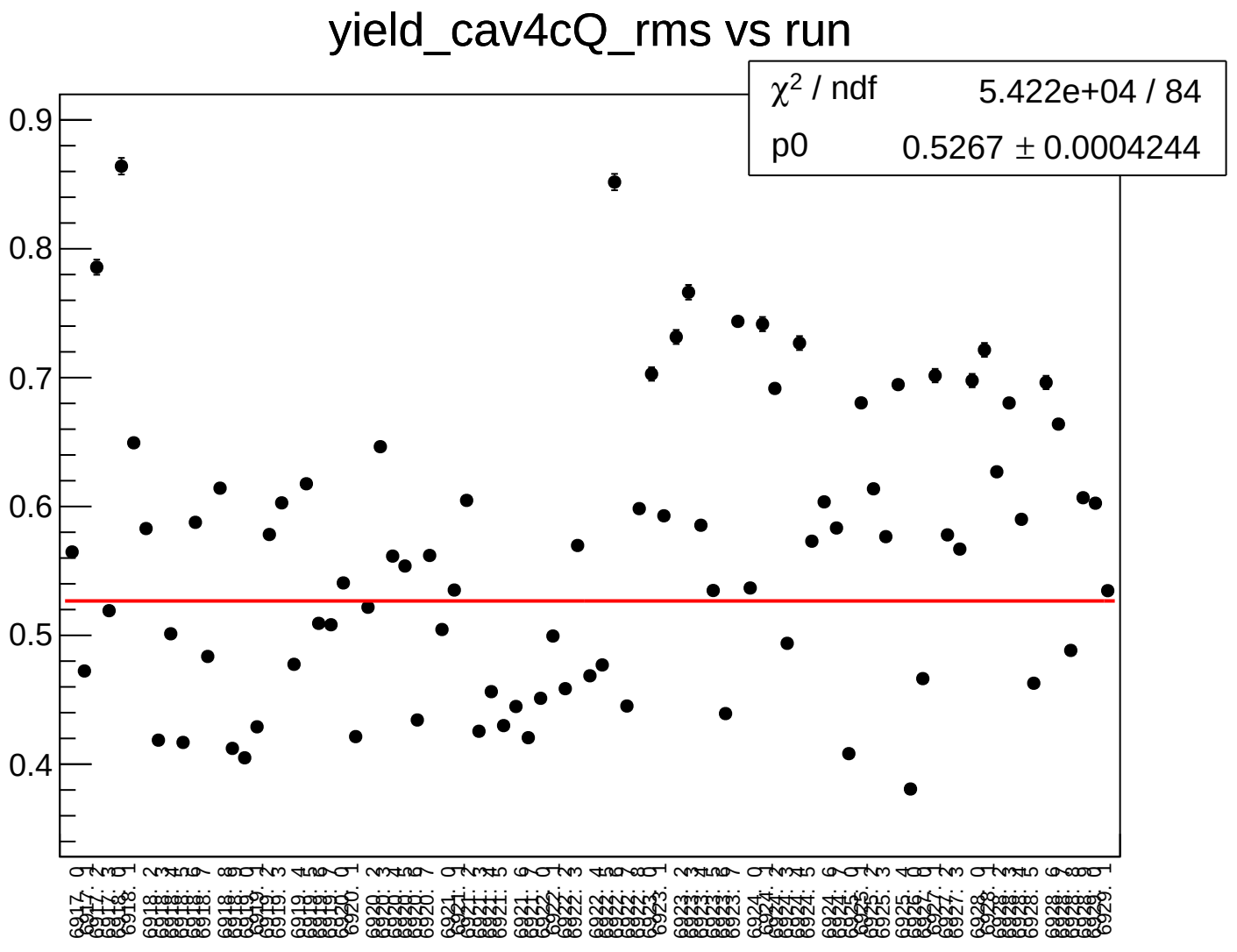

yield_cav4bQ_mean vs run
χ² / ndf 6.983e+06 / 84
p0 146.4 ± 0.0009055
150
148
146
144
142
pull
Entries 85
Mean 45.02
Std Dev 33.98
1000
800
600
400
200
0
−200
−400
−600
−800

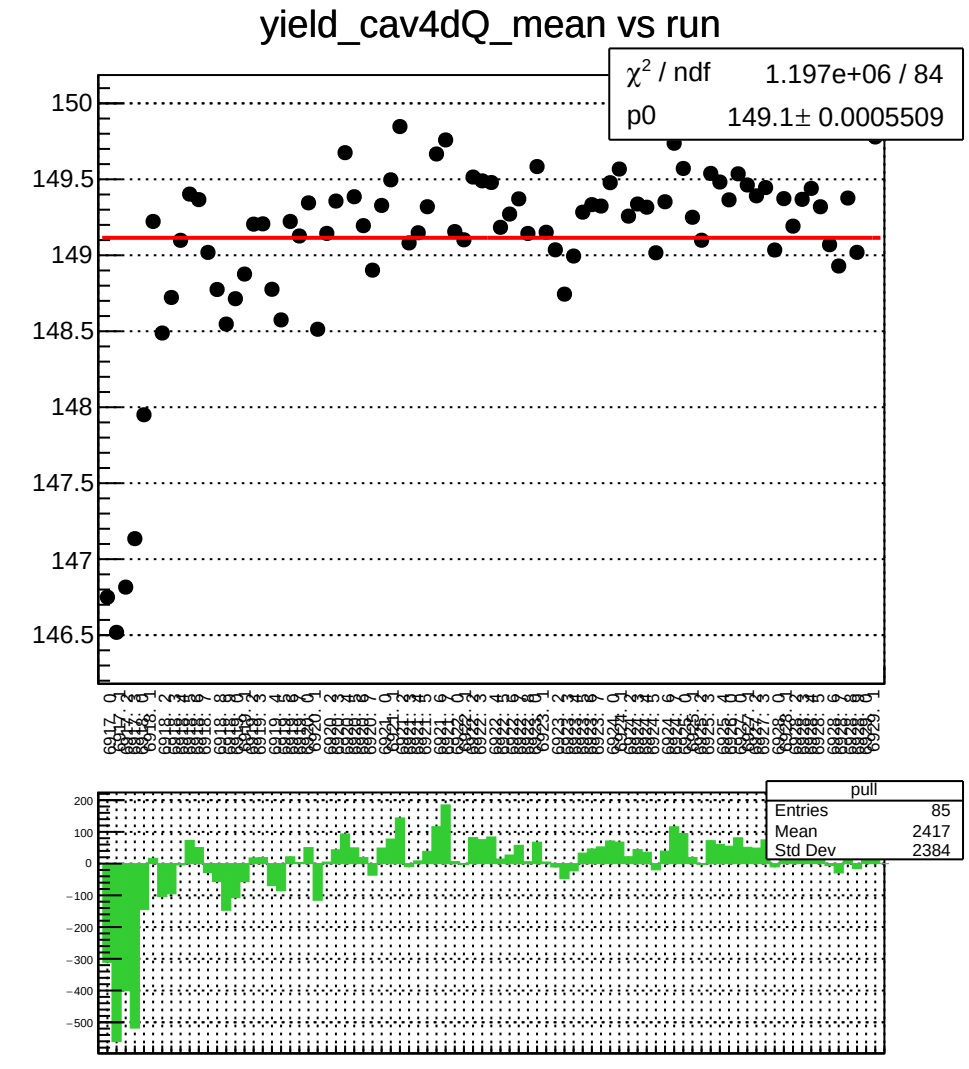

pull1D
Entries 85
Mean −2.085
Std Dev 4.544
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

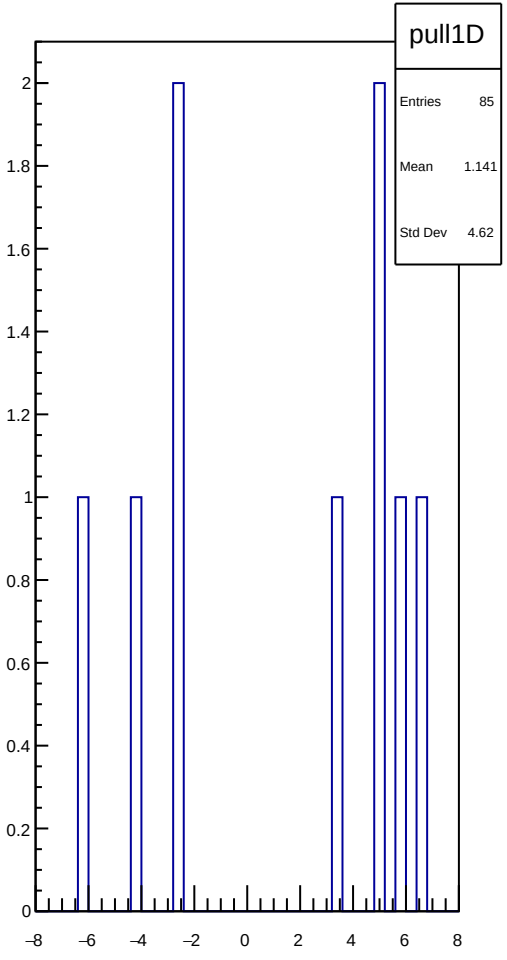

yield_cav4bQ_rms vs run
χ^2 / ndf 5.528e+05 / 84
p0 0.6535 ± 0.0006403
3
2.5
2
1.5
1
0.5

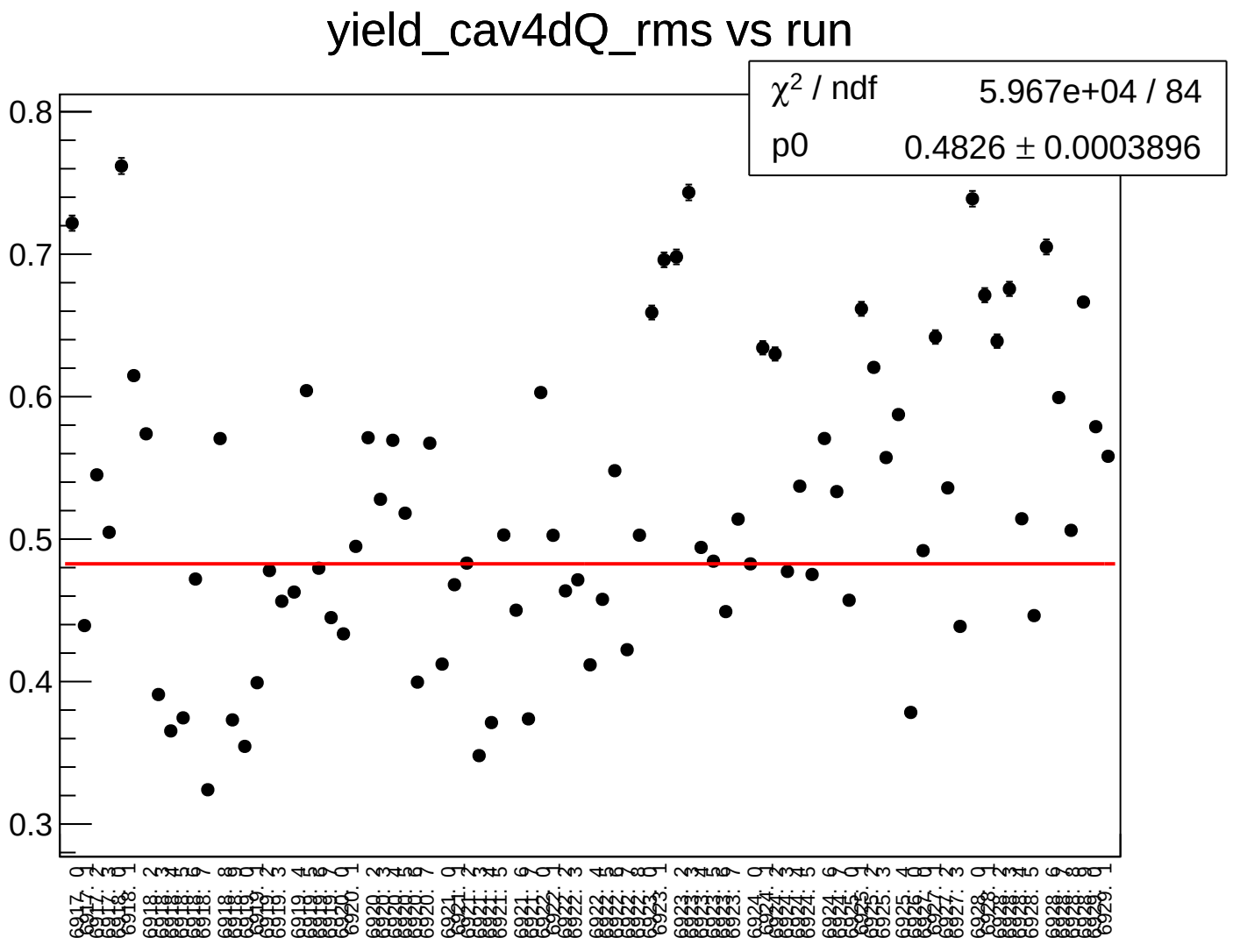

yield_cav4cQ_mean vs run
χ² / ndf 1.318e+06 / 84
p0 148.8 ± 0.0006001
150
149.5
149
148.5
148
147.5
147
146.5
146
pull
Entries 85
Mean 701.1
Std Dev 666.6
200
100
0
−100
−200
−300
−400
−500
−600

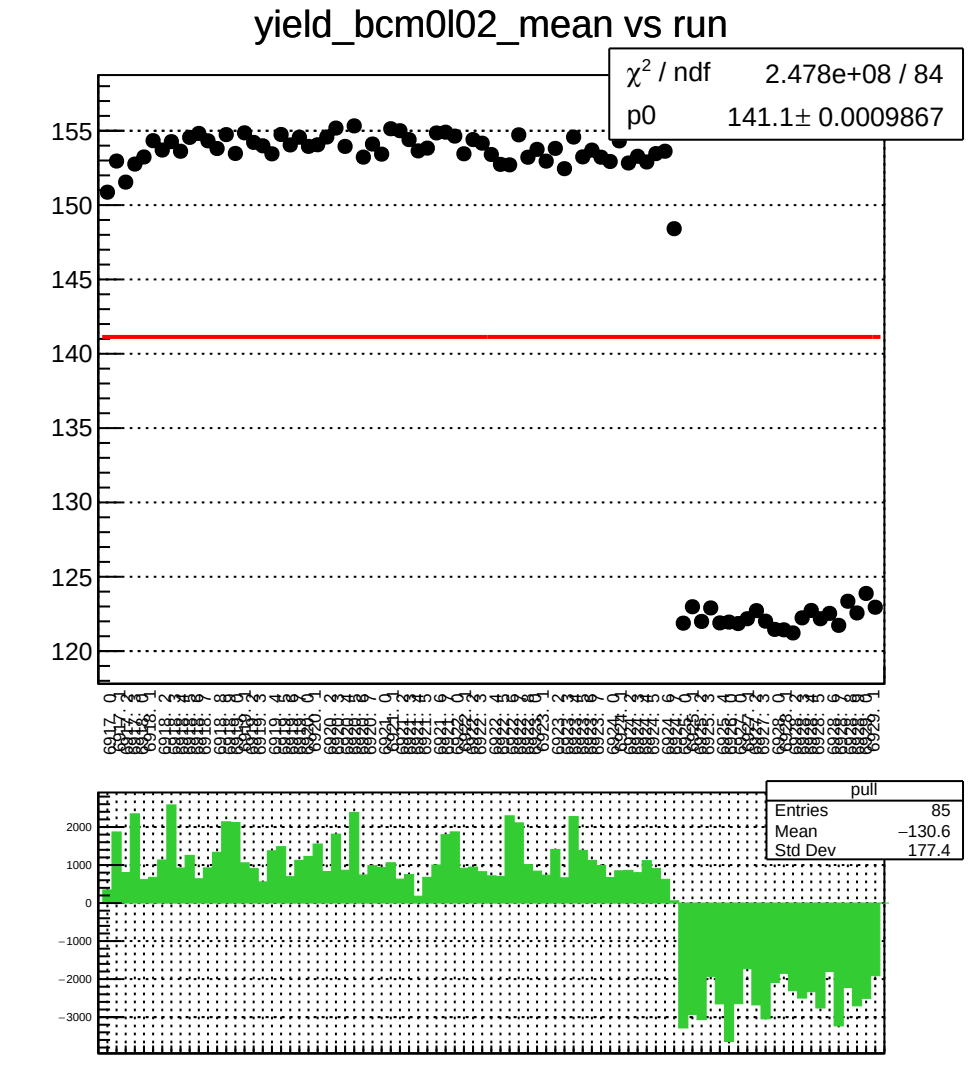

pull1D
Entries 85
Mean 3.437
Std Dev 2.469
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

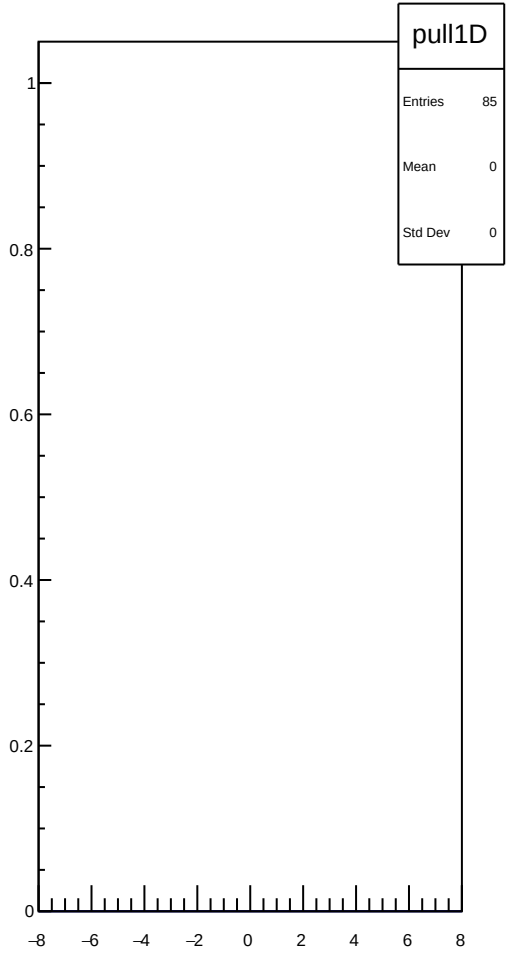

yield_cav4cQ_rms vs run
χ² / ndf 5.422e+04 / 84
p0 0.5267 ± 0.0004244
0.9
0.8
0.7
0.6
0.5
0.4

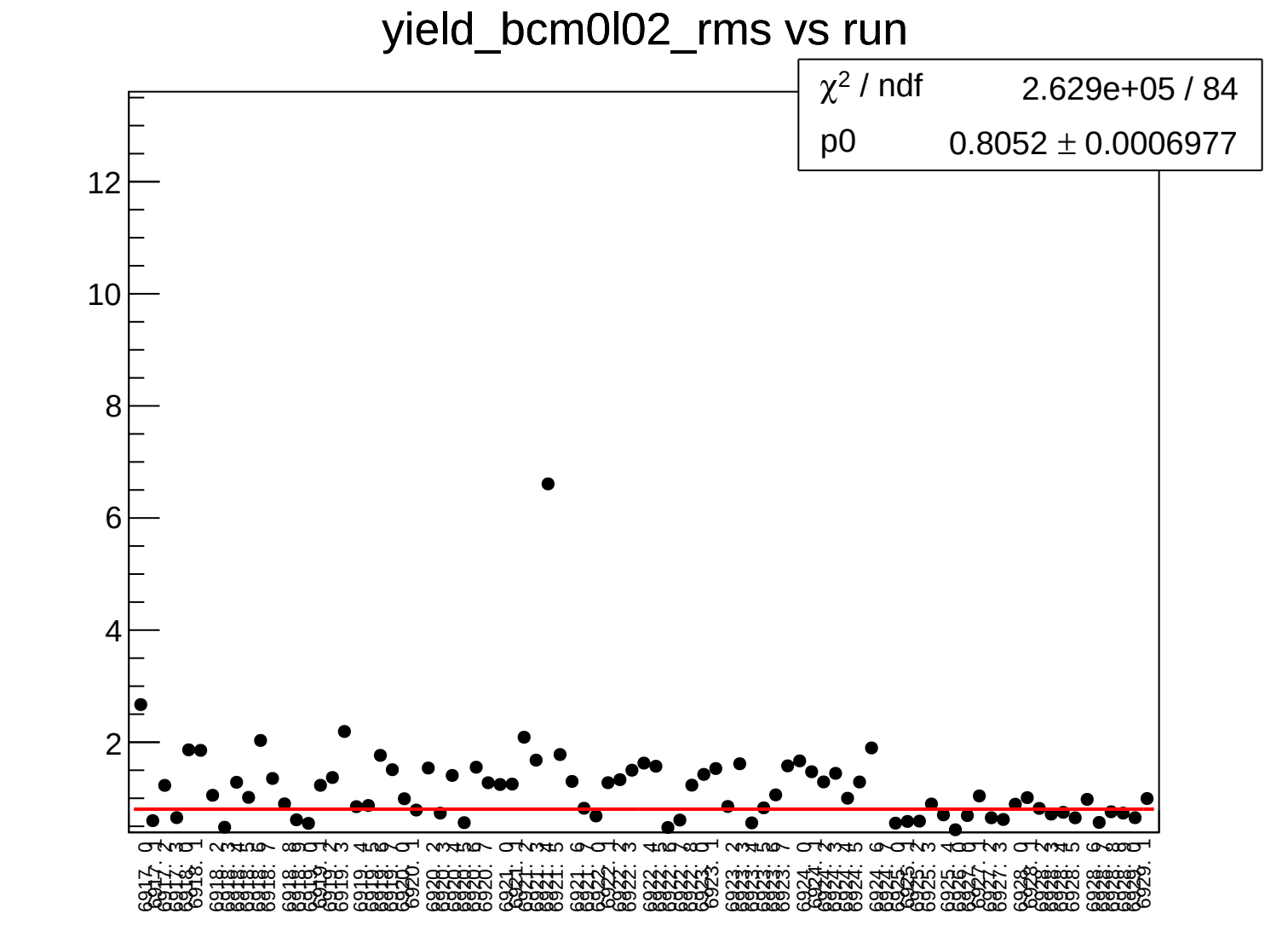

yield_cav4dQ_mean vs run
χ² / ndf 1.197e+06 / 84
p0 149.1± 0.0005509
150
149.5
149
148.5
148
147.5
147
146.5
pull
Entries 85
Mean 2417
Std Dev 2384
200
100
0
−100
−200
−300
−400
−500

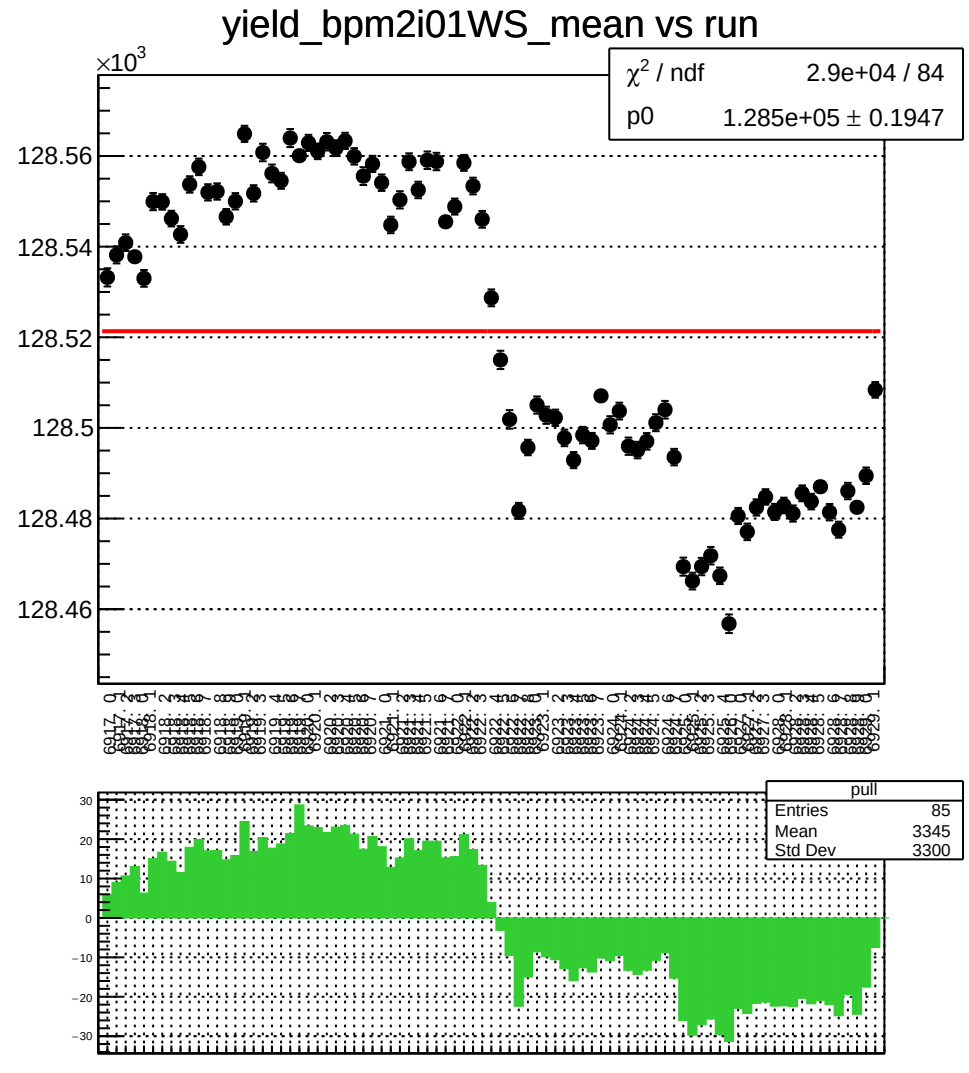

pull1D
Entries 85
Mean 1.141
Std Dev 4.62
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

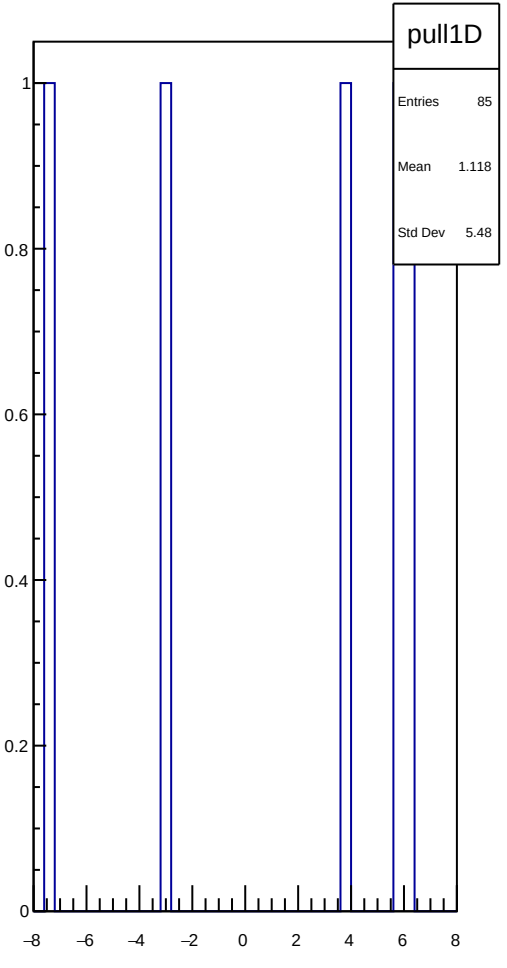

yield_cav4dQ_rms vs run
χ² / ndf 5.967e+04 / 84
p0 0.4826 ± 0.0003896
0.8
0.7
0.6
0.5
0.4
0.3

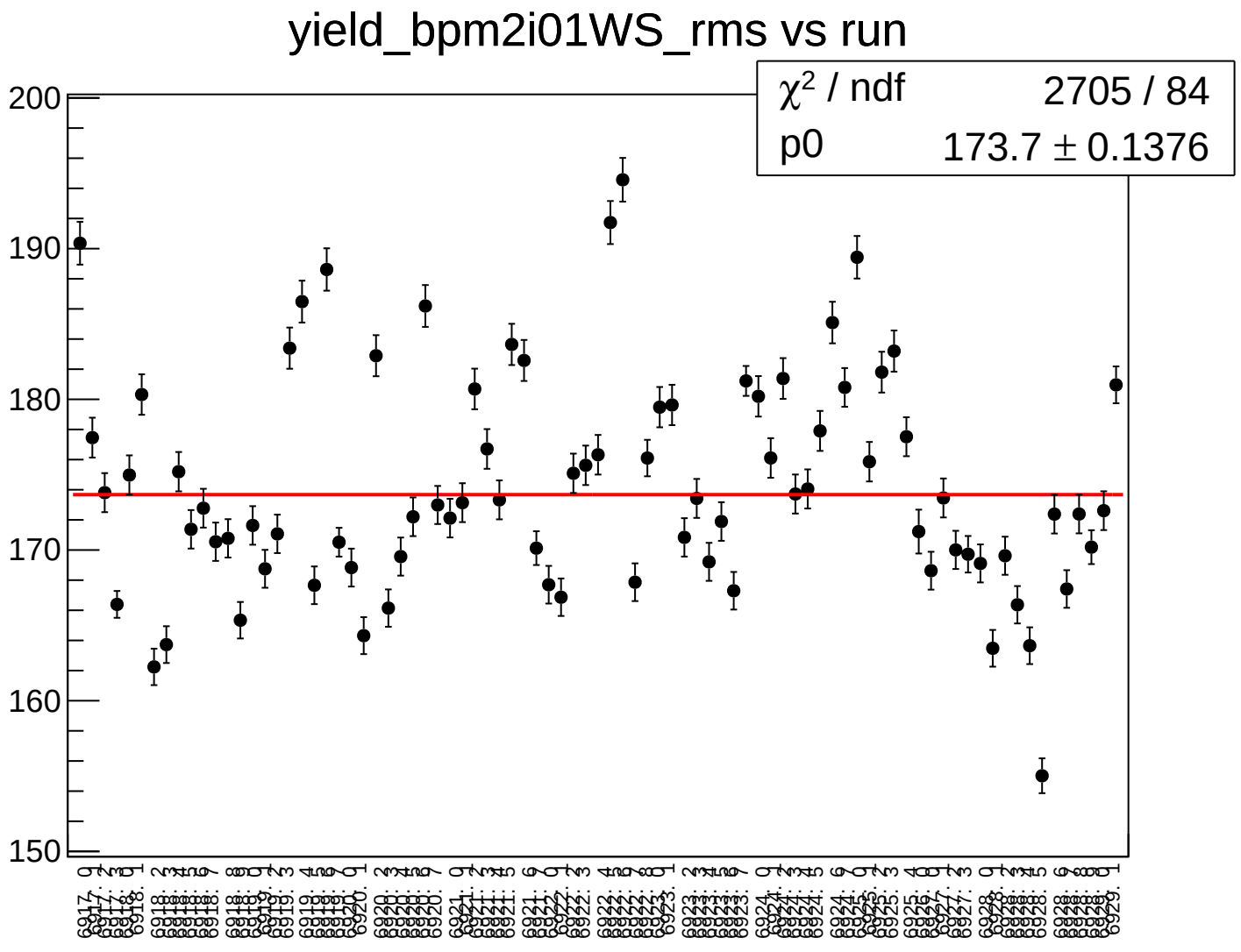

yield_bcm0l02_mean vs run
χ² / ndf 2.478e+08 / 84
p0 141.1± 0.0009867
155
150
145
140
135
130
125
120
pull
Entries 85
Mean −130.6
Std Dev 177.4
2000
1000
0
−1000
−2000
−3000

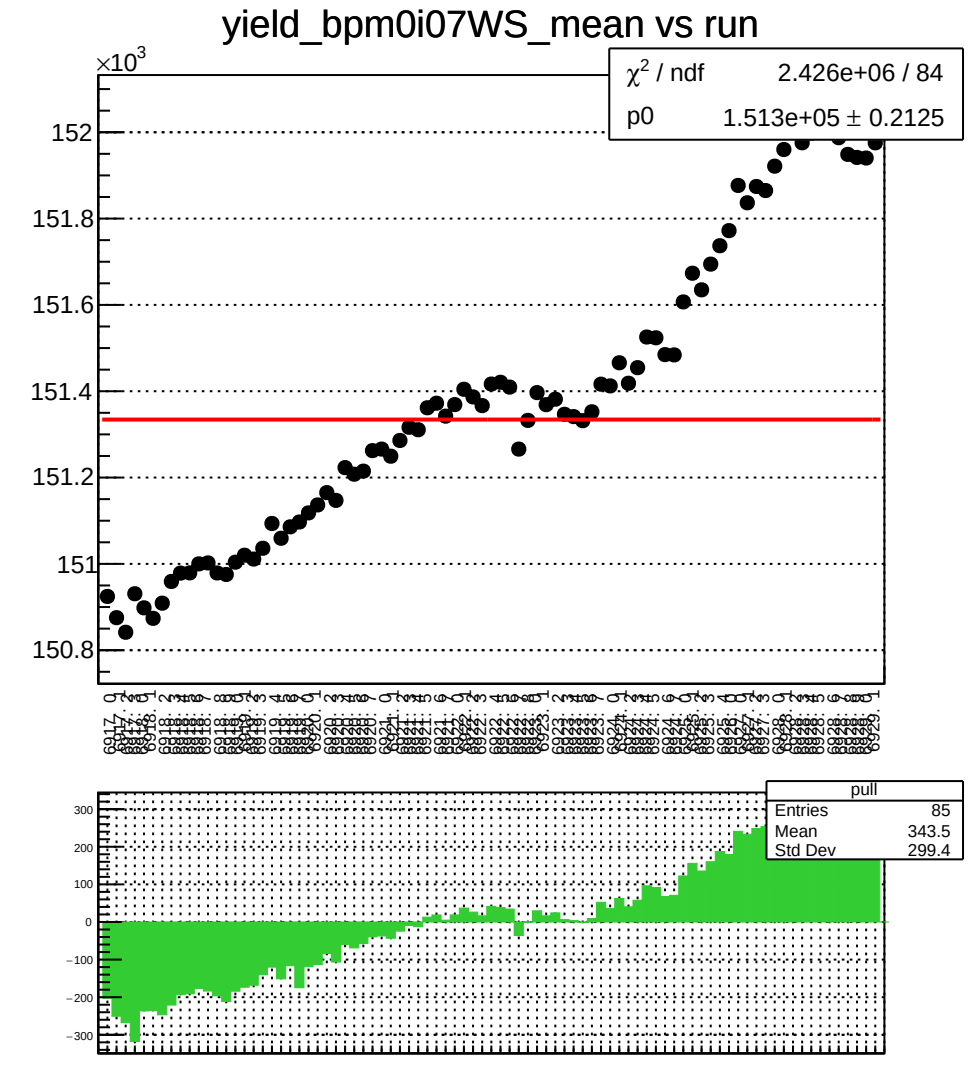

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

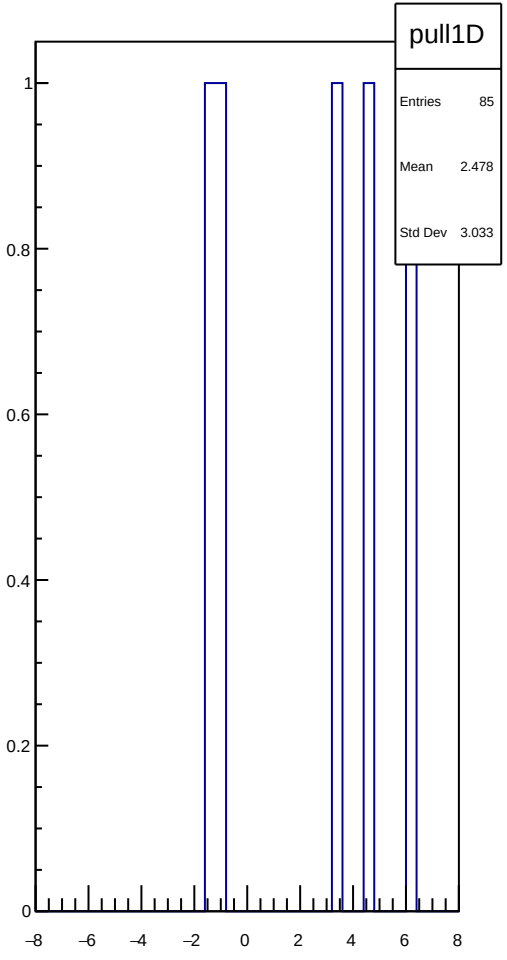

yield_bcm0l02_rms vs run
χ² / ndf 2.629e+05 / 84
p0 0.8052 ± 0.0006977
12
10
8
6
4
2

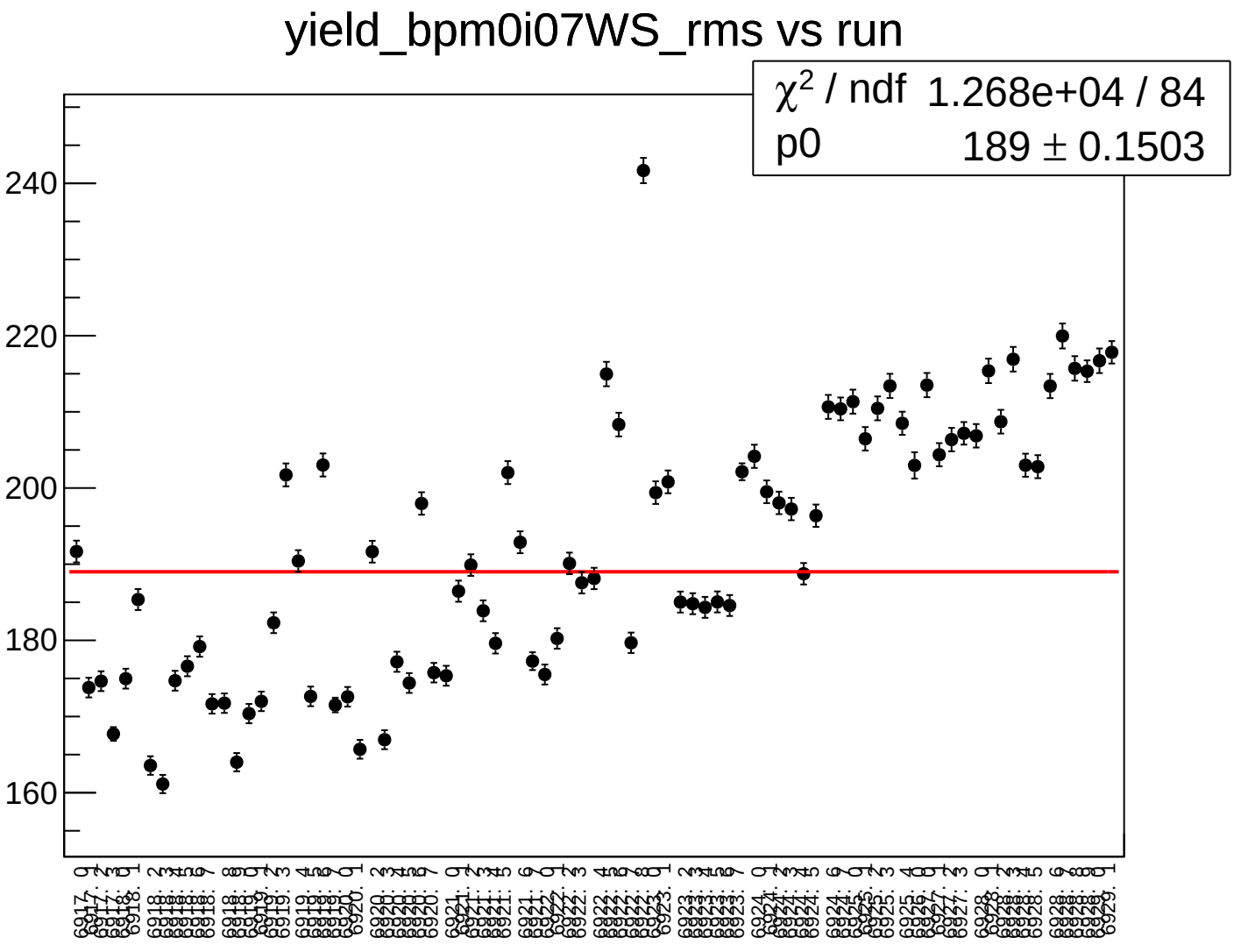

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.9e+04 / 84
p0 1.285e+05 ± 0.1947
128.56
128.54
128.52
128.5
128.48
128.46
pull
Entries 85
Mean 3345
Std Dev 3300
30
20
10
0
−10
−20
−30

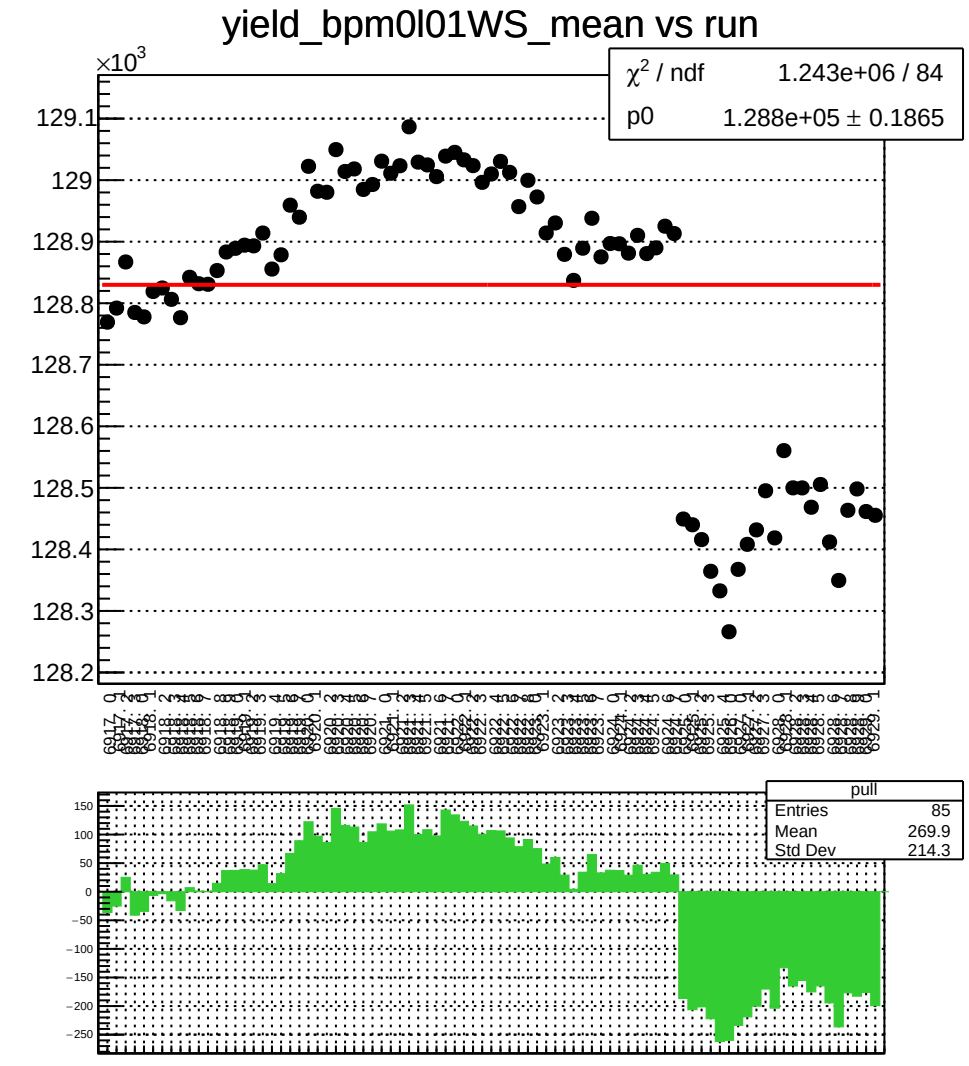

pull1D
Entries 85
Mean 1.118
Std Dev 5.48
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

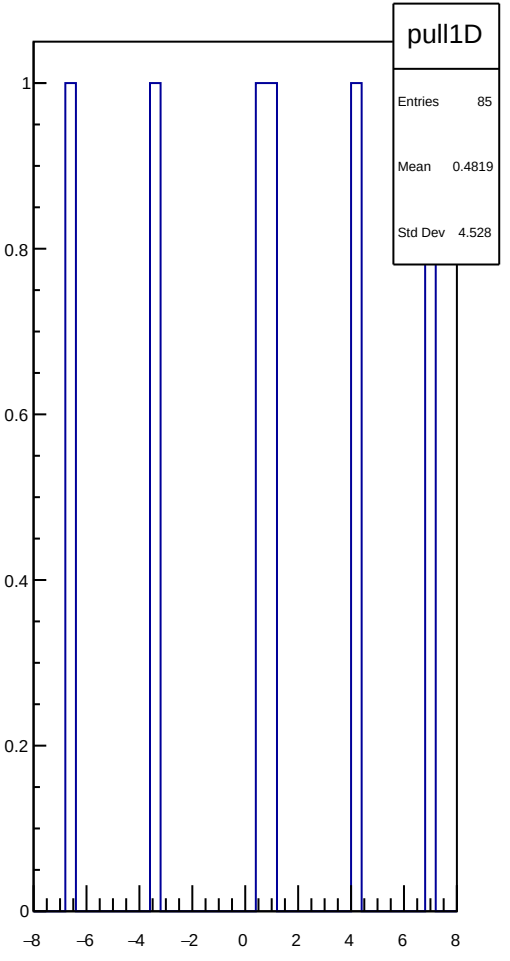

yield_bpm2i01WS_rms vs run
χ² / ndf 2705 / 84
p0 173.7 ± 0.1376
200
190
180
170
160
150

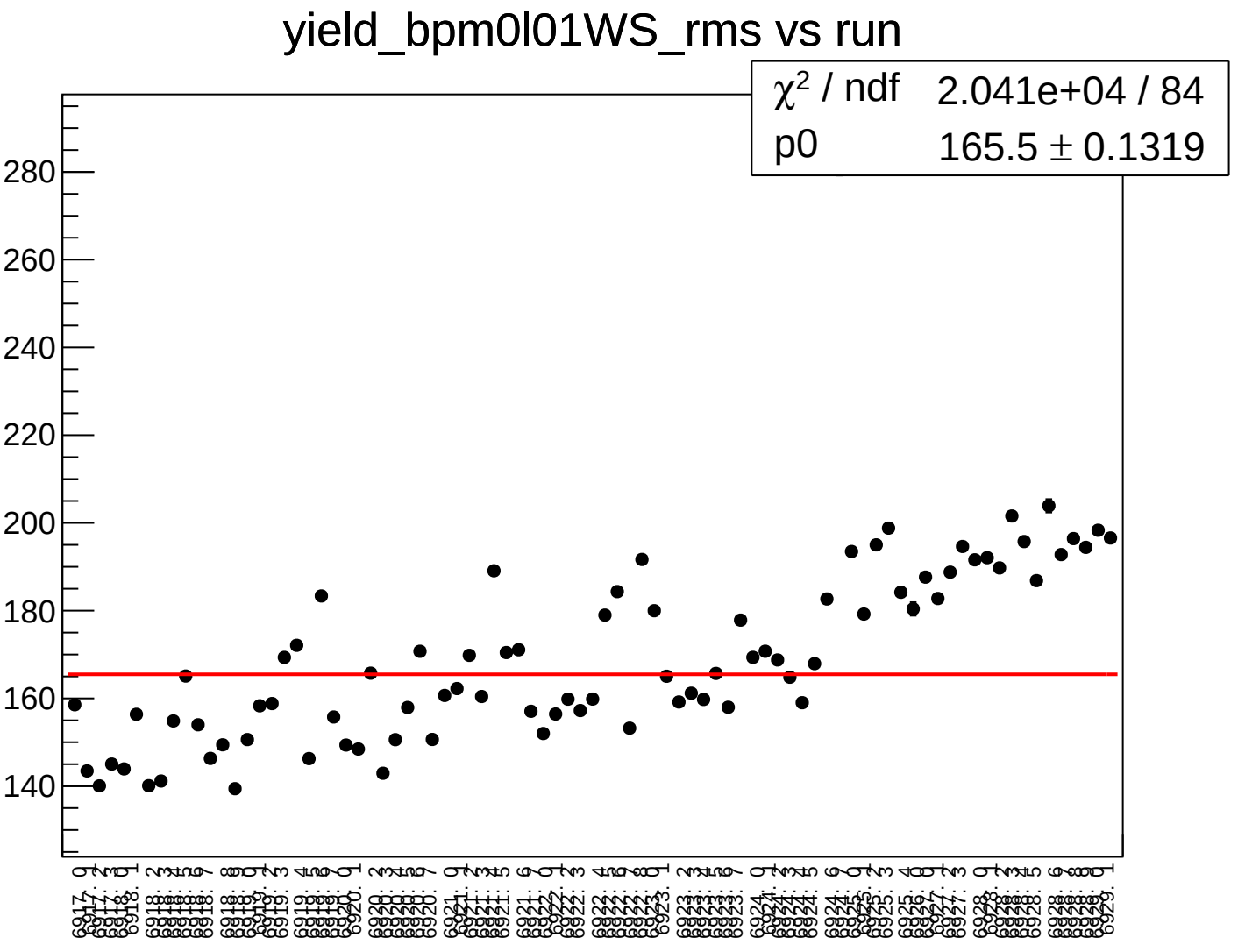

yield_bpm0i07WS_mean vs run
χ² / ndf 2.426e+06 / 84
p0 1.513e+05 ± 0.2125
×10³
152
151.8
151.6
151.4
151.2
151
150.8
pull
Entries 85
Mean 343.5
Std Dev 299.4
300
200
100
0
−100
−200
−300

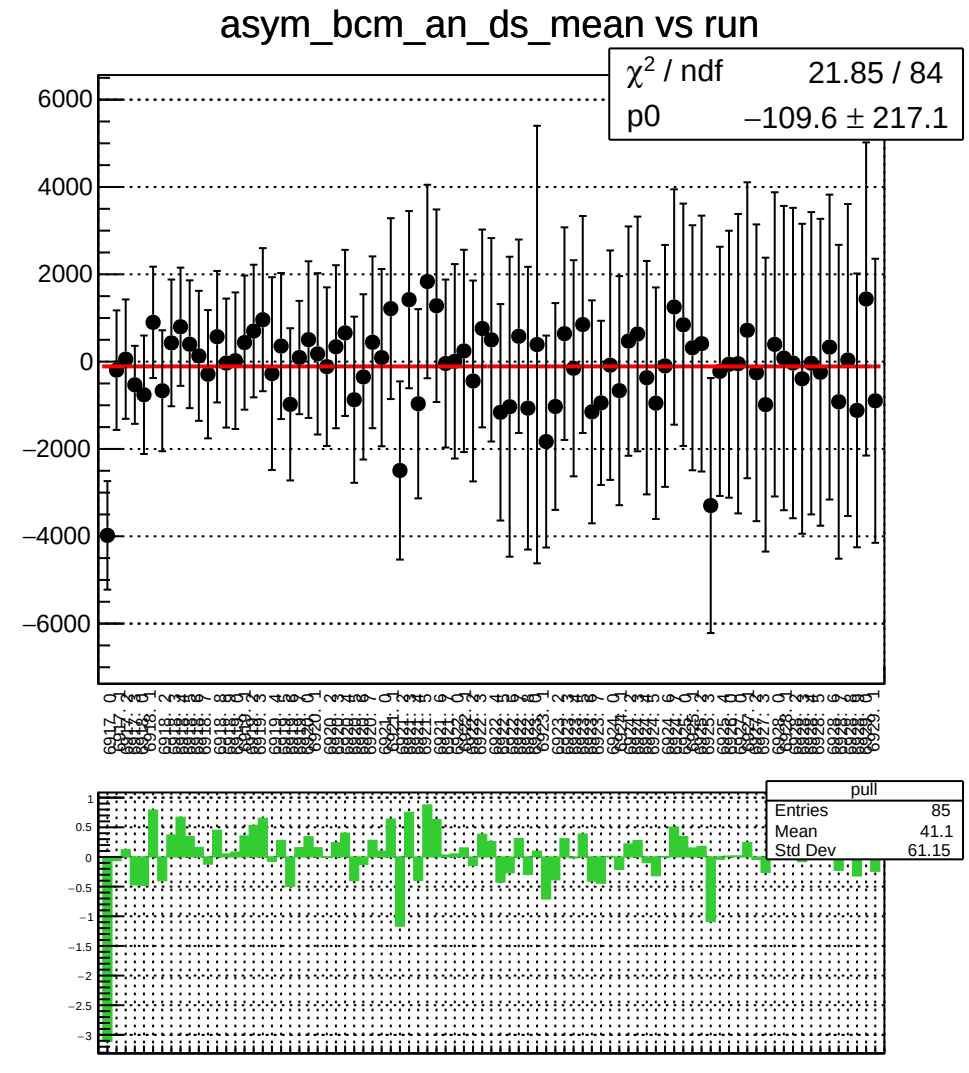

pull1D
Entries 85
Mean 2.478
Std Dev 3.033
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

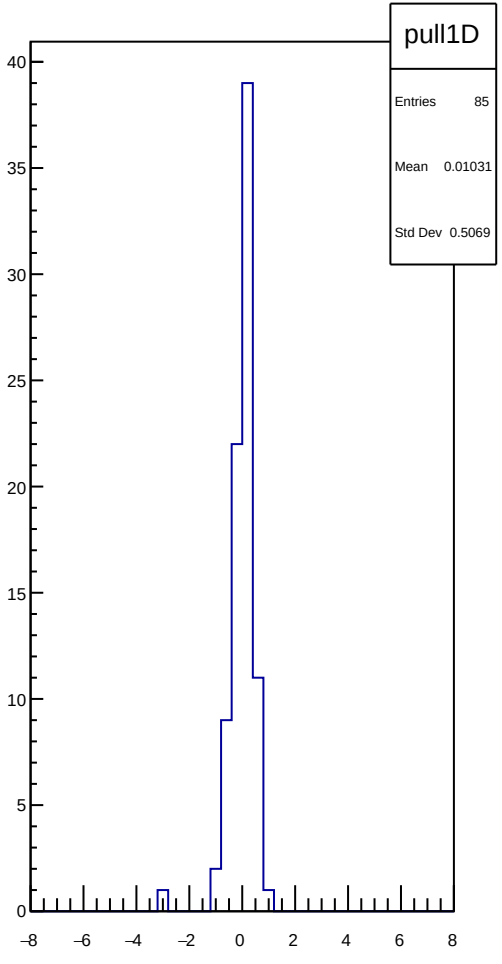

yield_bpm0i07WS_rms vs run
χ² / ndf 1.268e+04 / 84
p0 189 ± 0.1503
240
220
200
180
160

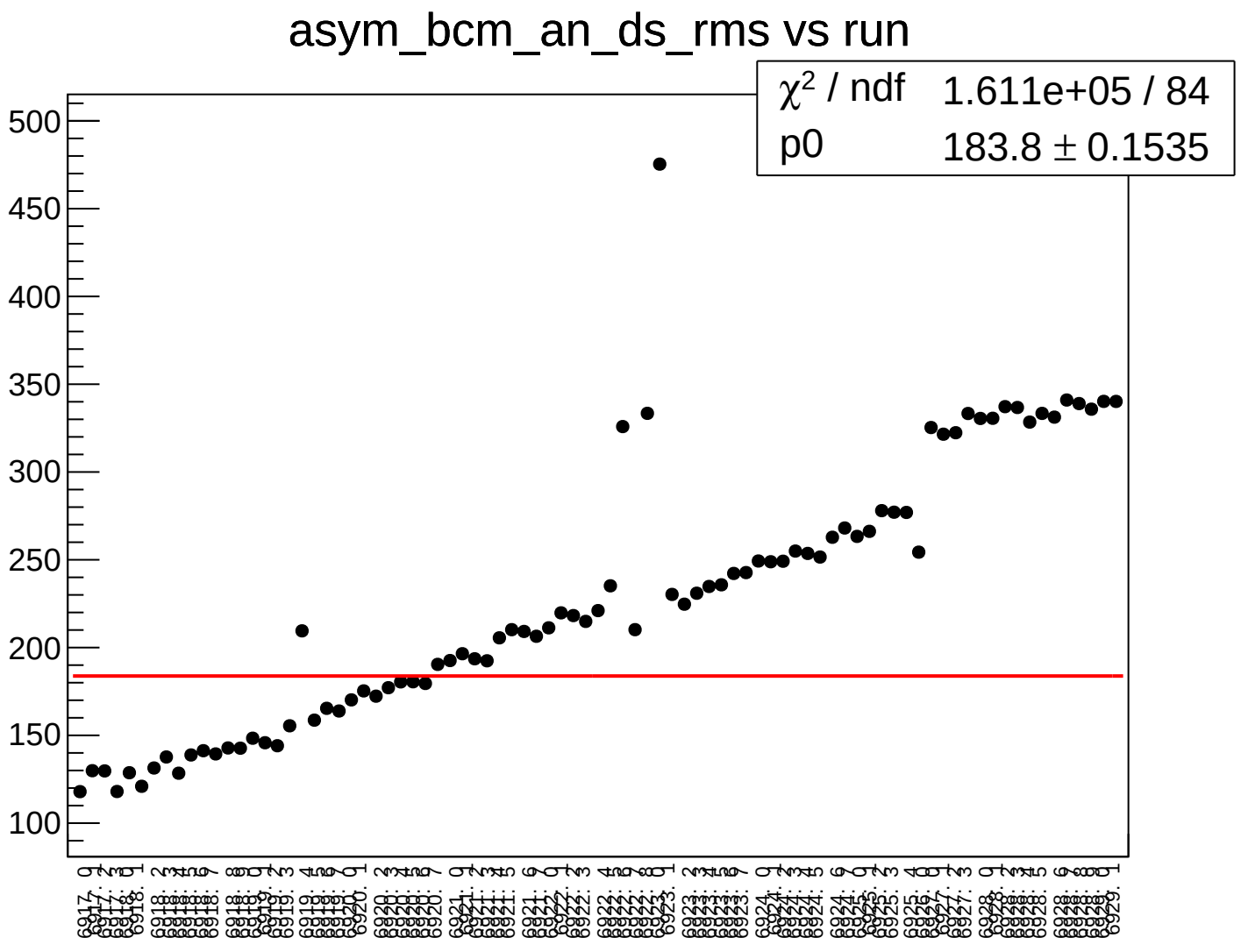

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.243e+06 / 84
p0 1.288e+05 ± 0.1865
129.1
129
128.9
128.8
128.7
128.6
128.5
128.4
128.3
128.2
pull
Entries 85
Mean 269.9
Std Dev 214.3
150
100
50
0
−50
−100
−150
−200
−250

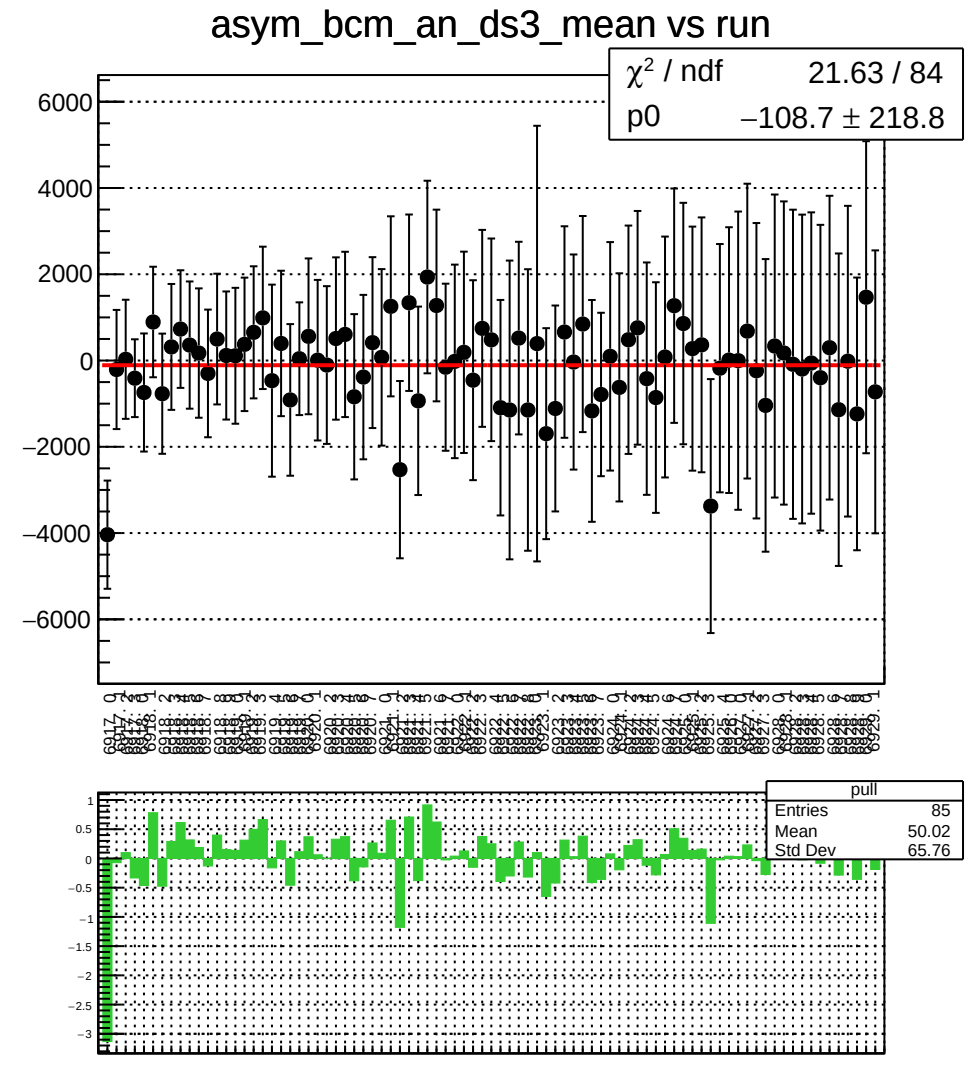

pull1D
Entries 85
Mean 0.4819
Std Dev 4.528
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

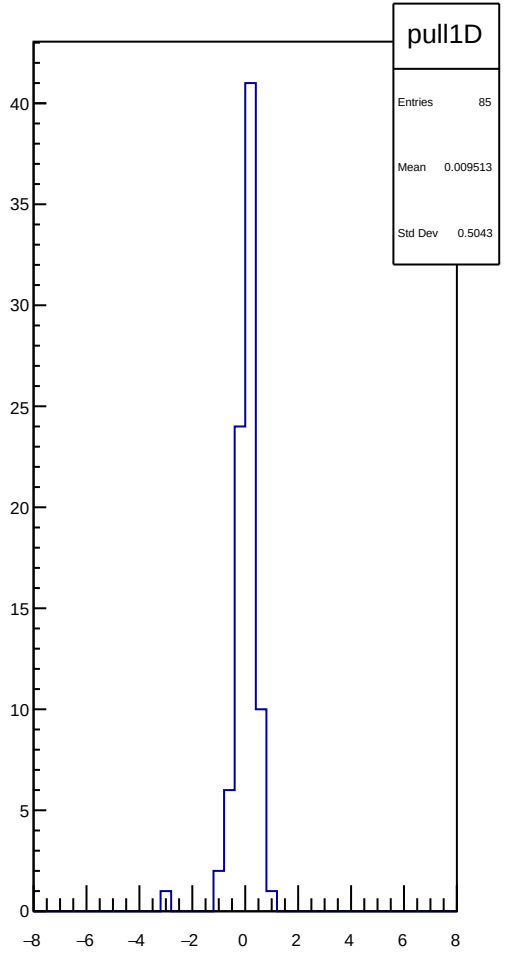

yield_bpm0l01WS_rms vs run
χ² / ndf 2.041e+04 / 84
p0 165.5 ± 0.1319
280
260
240
220
200
180
160
140

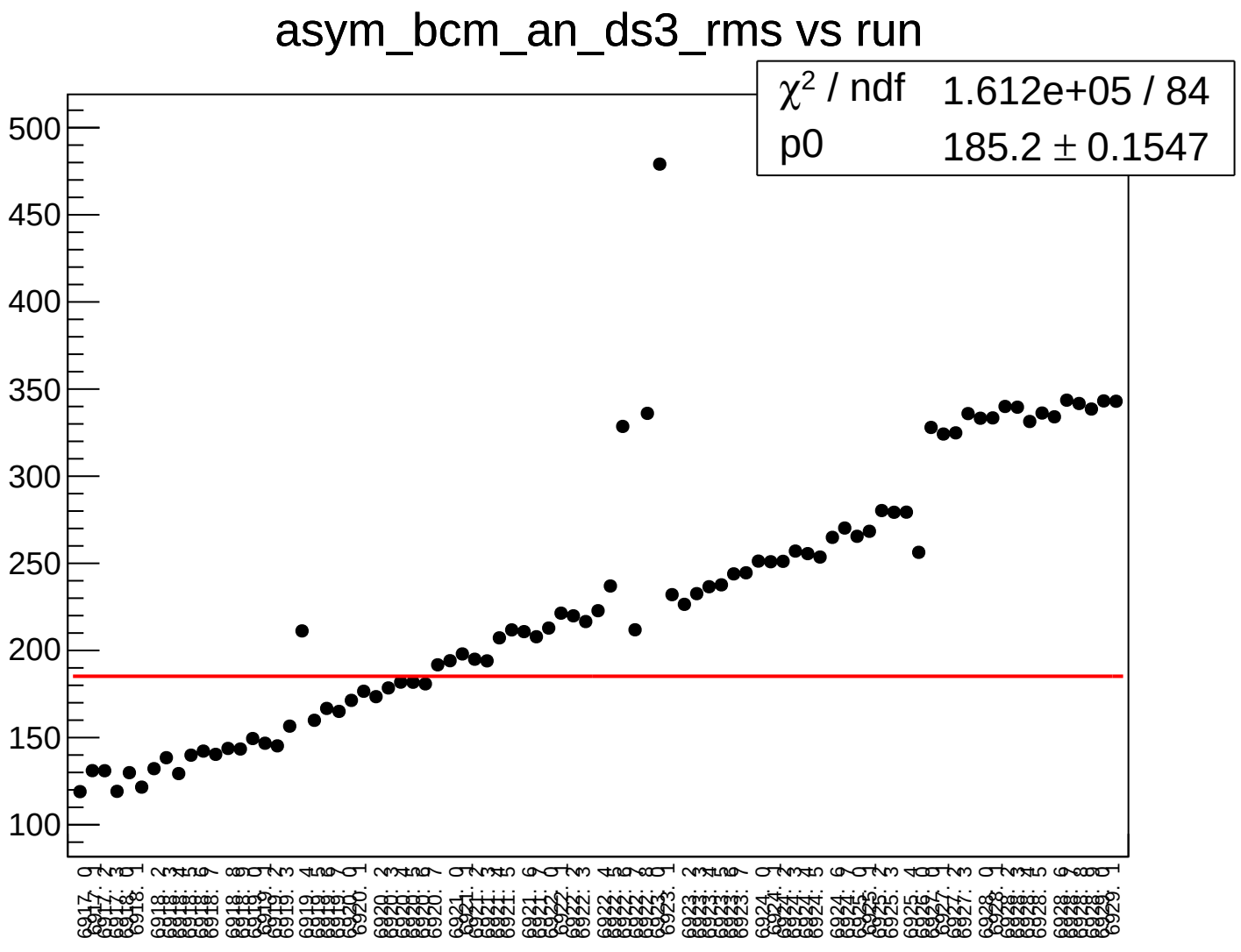

asym_bcm_an_ds_mean vs run
χ² / ndf 21.85 / 84
p0 −109.6 ± 217.1
pull
Entries 85
Mean 41.1
Std Dev 61.15

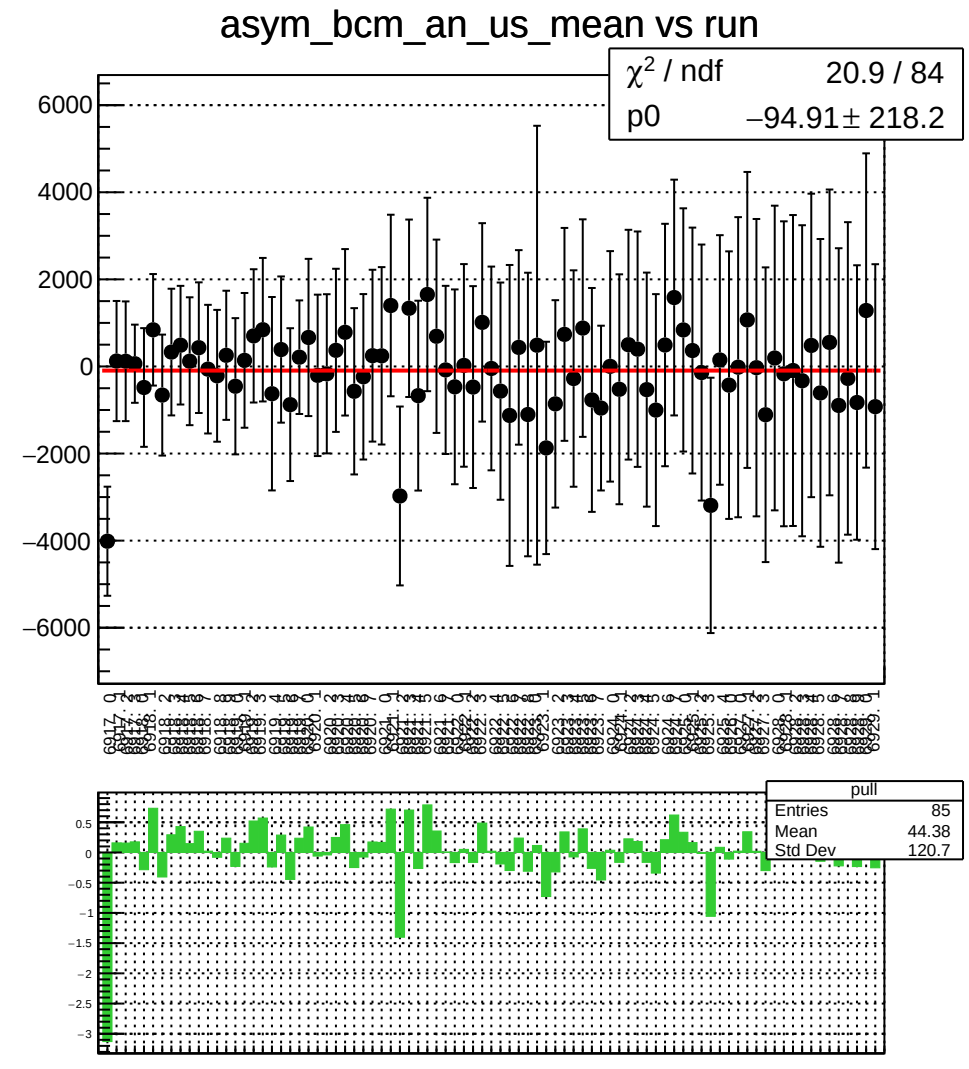

pull1D
Entries 85
Mean 0.01031
Std Dev 0.5069

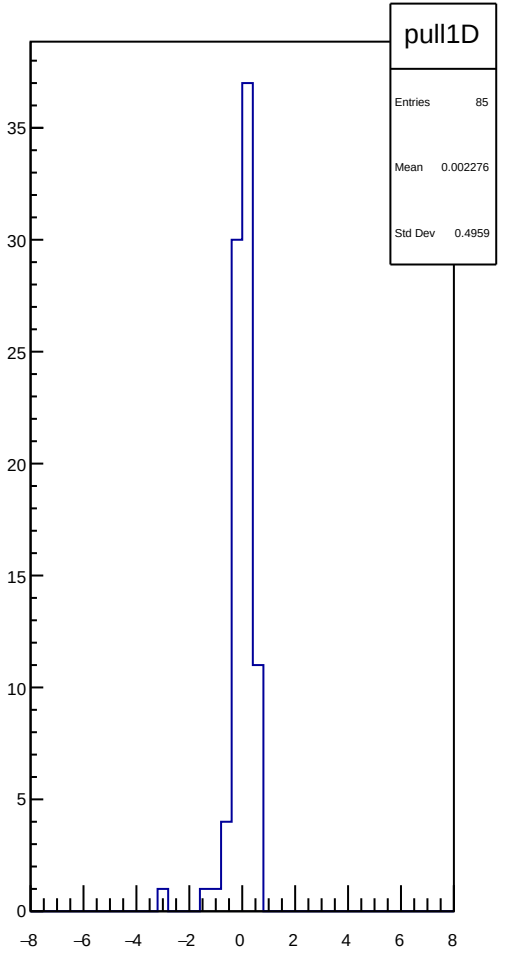

asym_bcm_an_ds_rms vs run
χ² / ndf 1.611e+05 / 84
p0 183.8 ± 0.1535
500
450
400
350
300
250
200
150
100

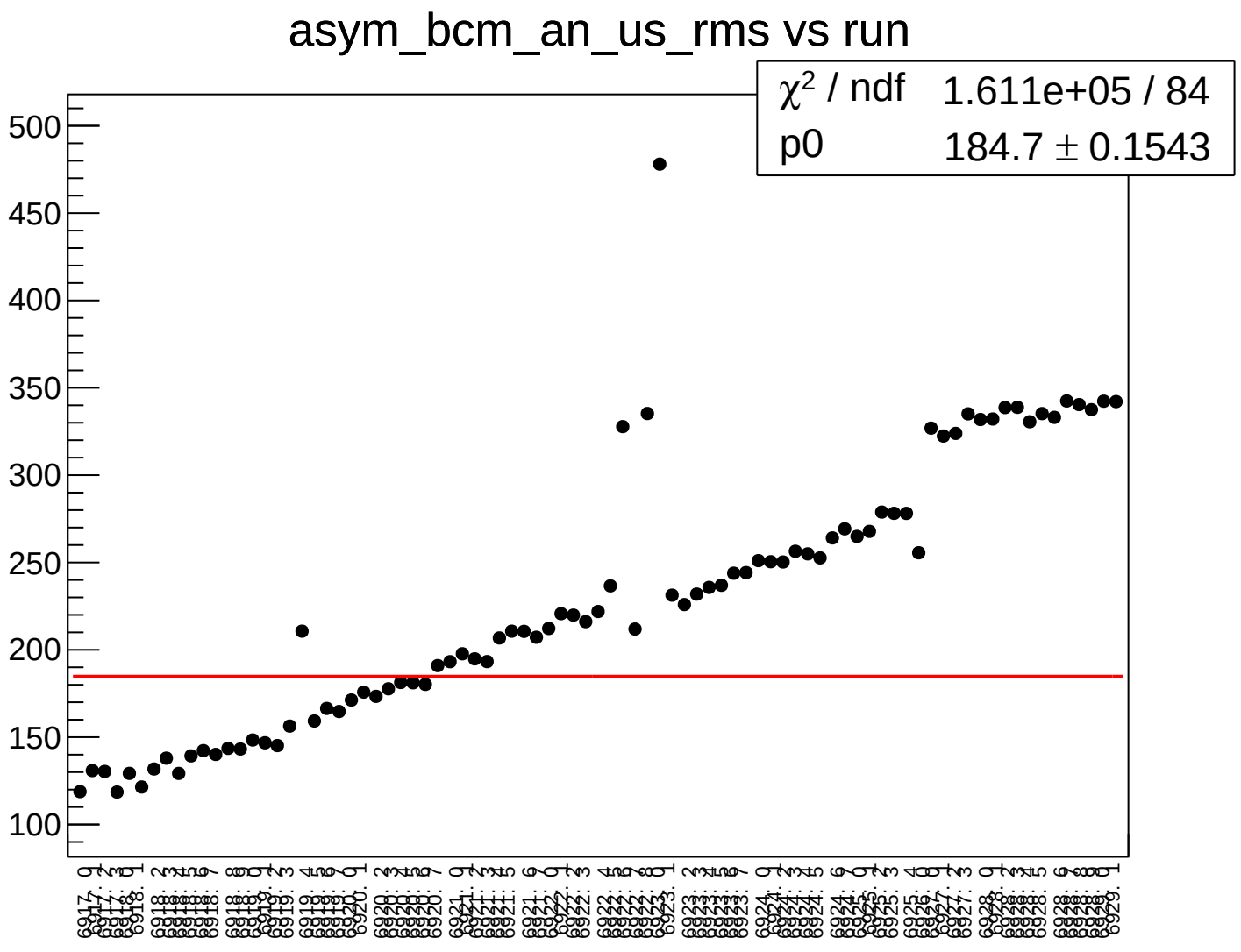

asym_bcm_an_ds3_mean vs run
χ² / ndf 21.63 / 84
p0 −108.7 ± 218.8
pull
Entries 85
Mean 50.02
Std Dev 65.76

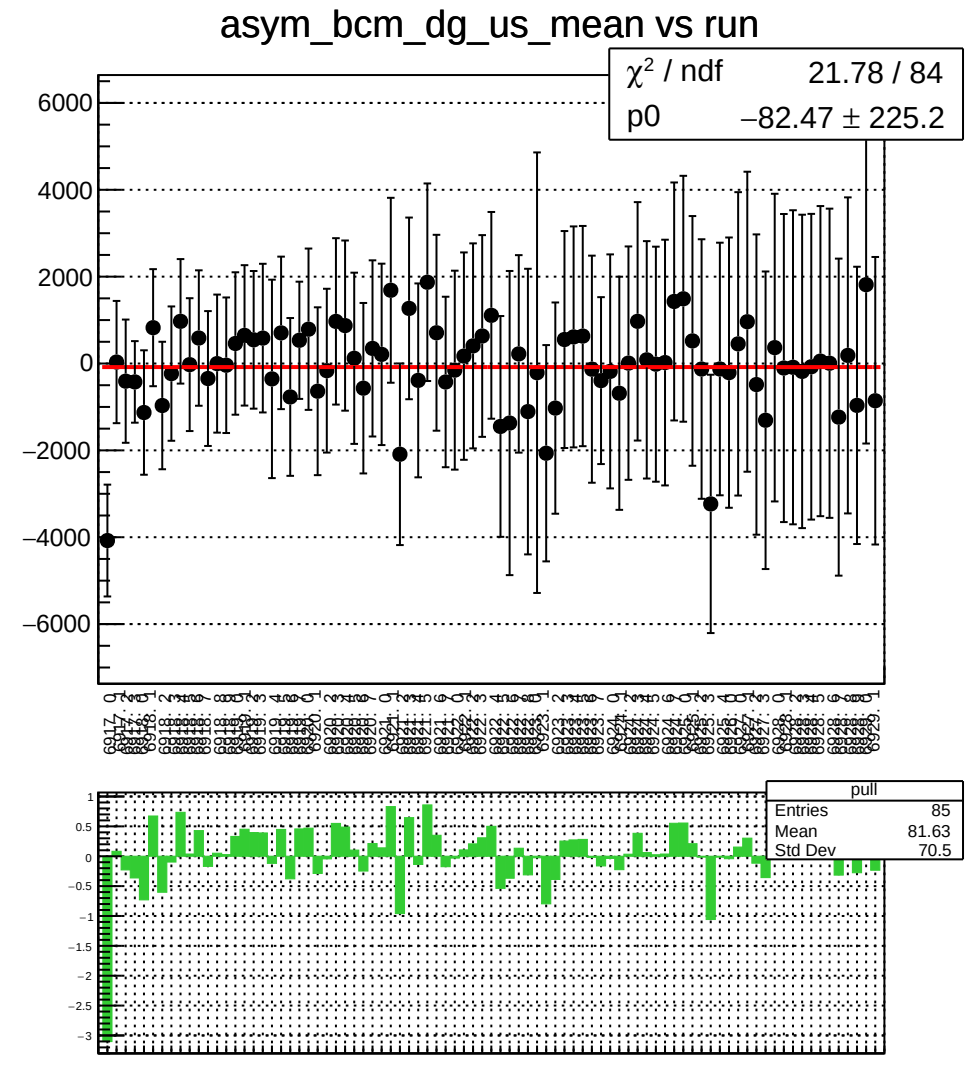

pull1D
Entries 85
Mean 0.009513
Std Dev 0.5043

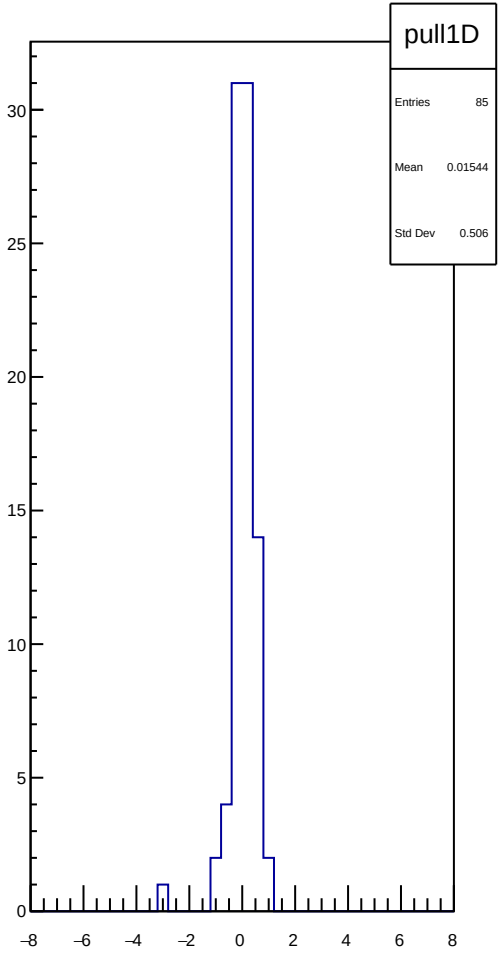

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.612e+05 / 84
p0 185.2 ± 0.1547
500
450
400
350
300
250
200
150
100

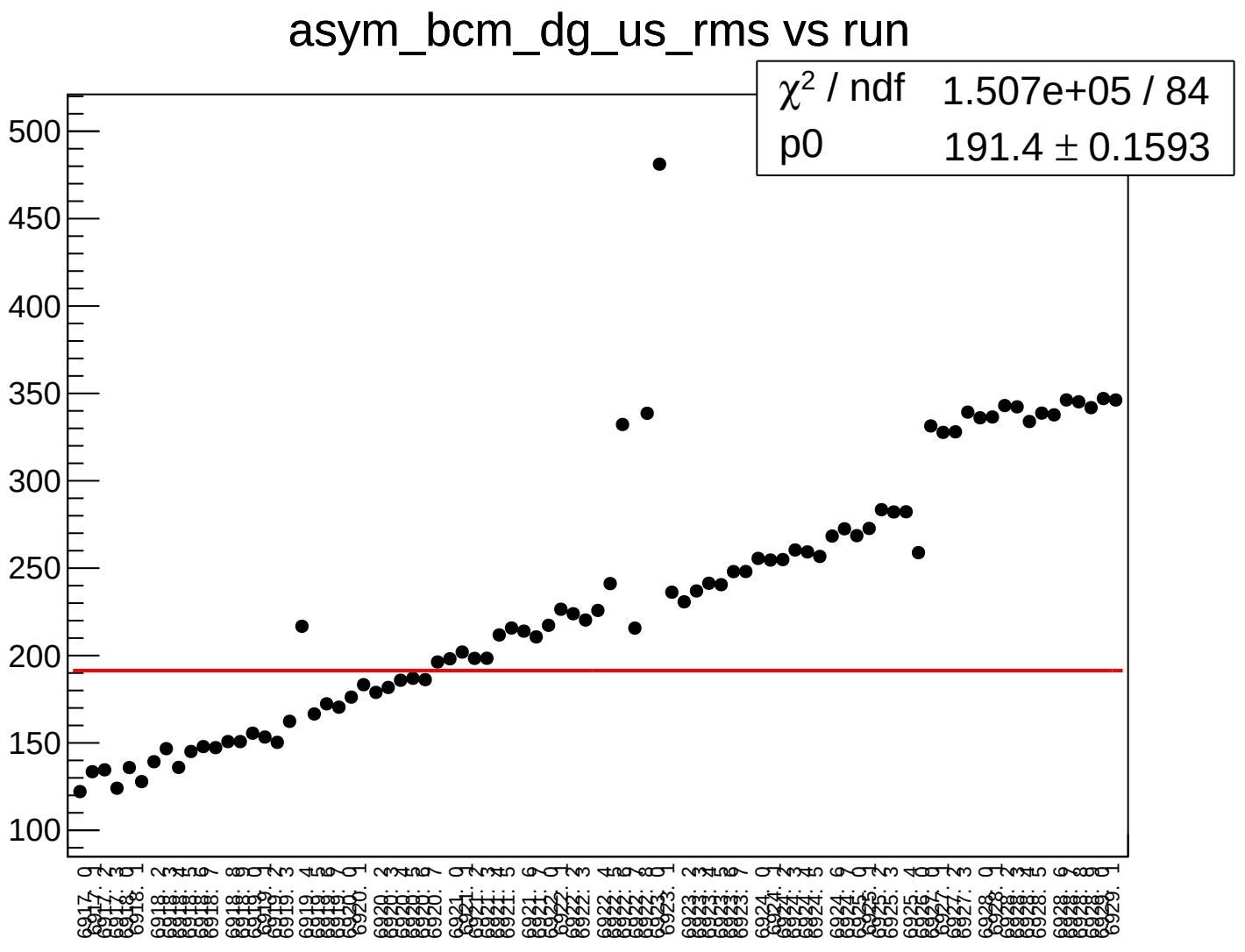

asym_bcm_an_us_mean vs run
χ² / ndf 20.9 / 84
p0 −94.91± 218.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 44.38
Std Dev 120.7
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

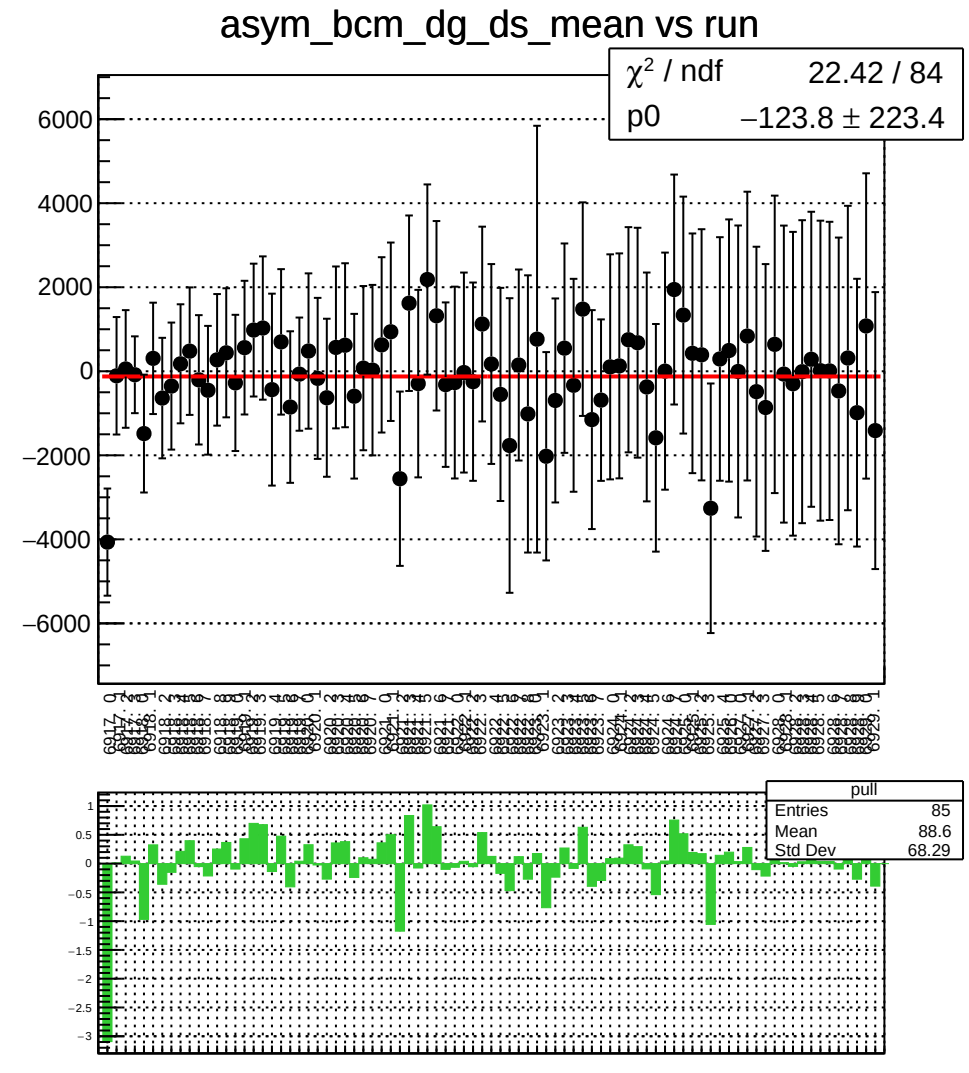

pull1D
Entries 85
Mean 0.002276
Std Dev 0.4959
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

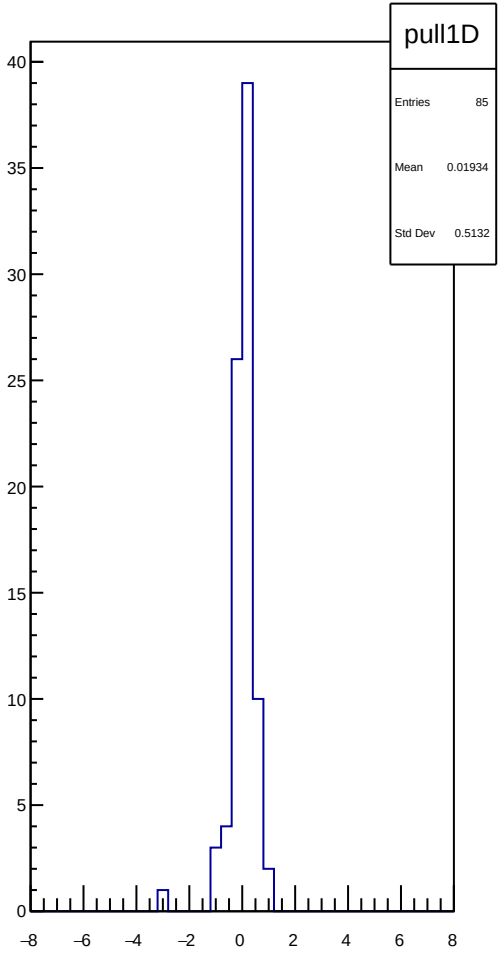

asym_bcm_an_us_rms vs run
χ^2 / ndf 1.611e+05 / 84
p0 184.7 ± 0.1543
500
450
400
350
300
250
200
150
100

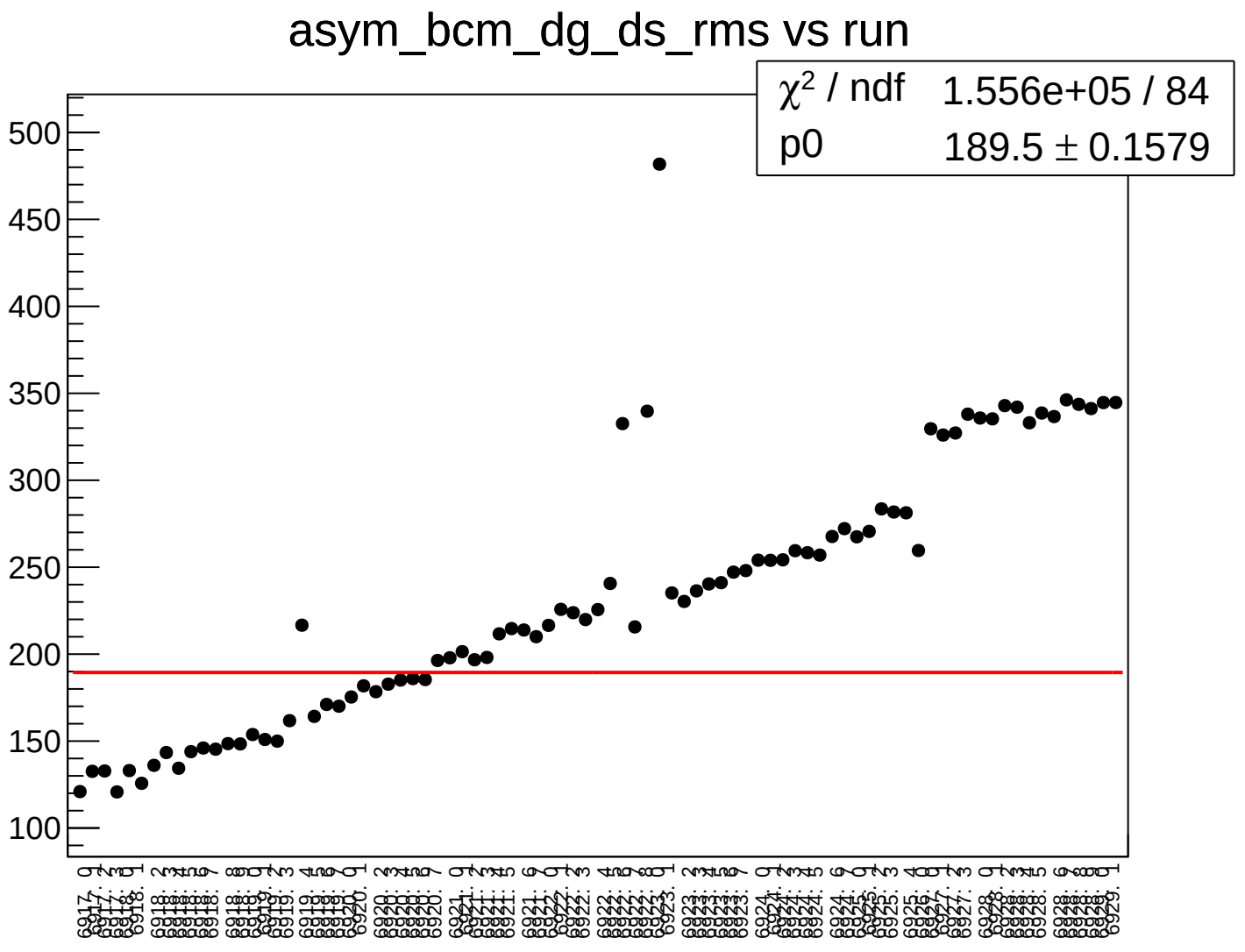

asym_bcm_dg_us_mean vs run
χ² / ndf 21.78 / 84
p0 −82.47 ± 225.2
pull
Entries 85
Mean 81.63
Std Dev 70.5

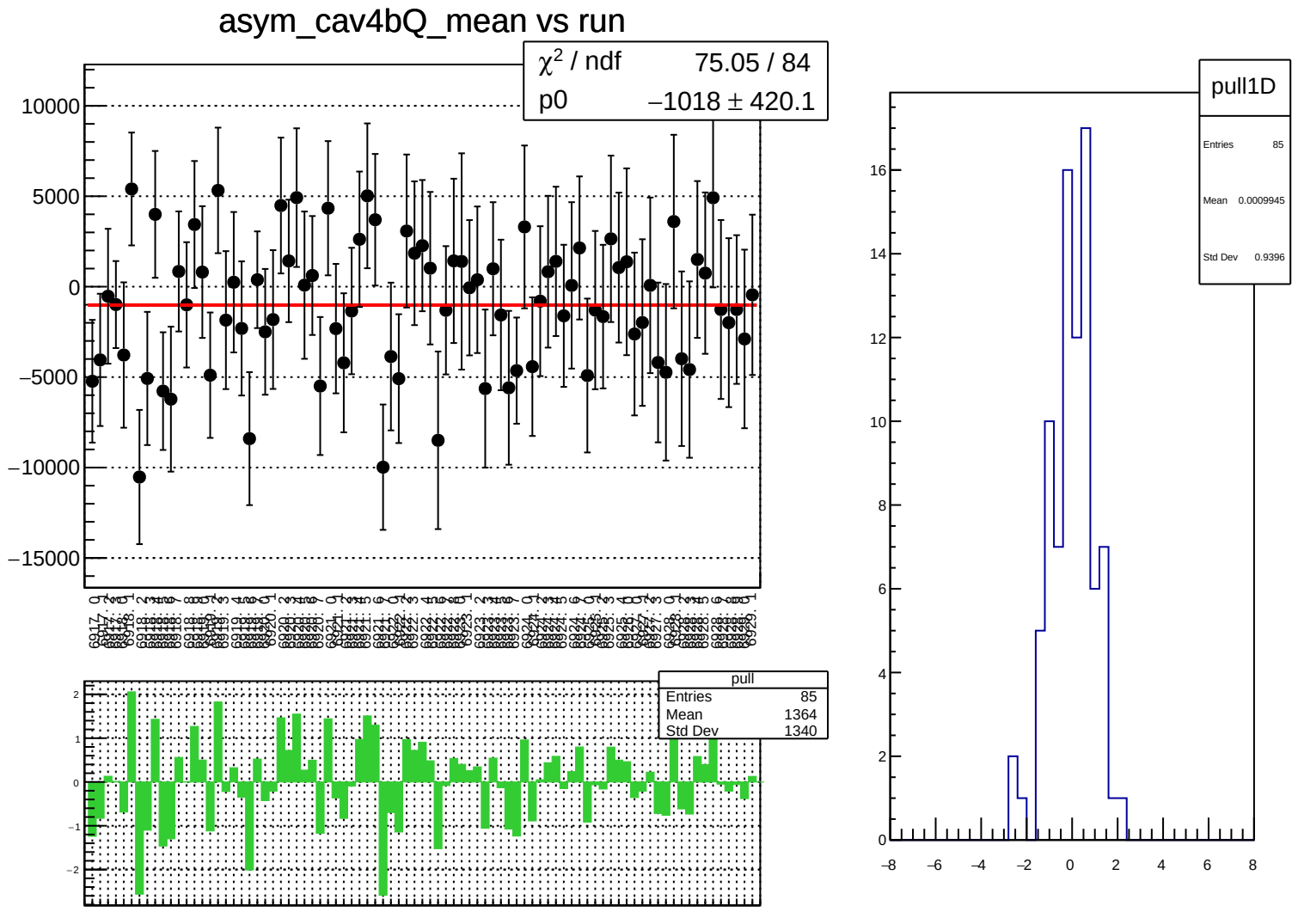

pull1D
Entries 85
Mean 0.01544
Std Dev 0.506

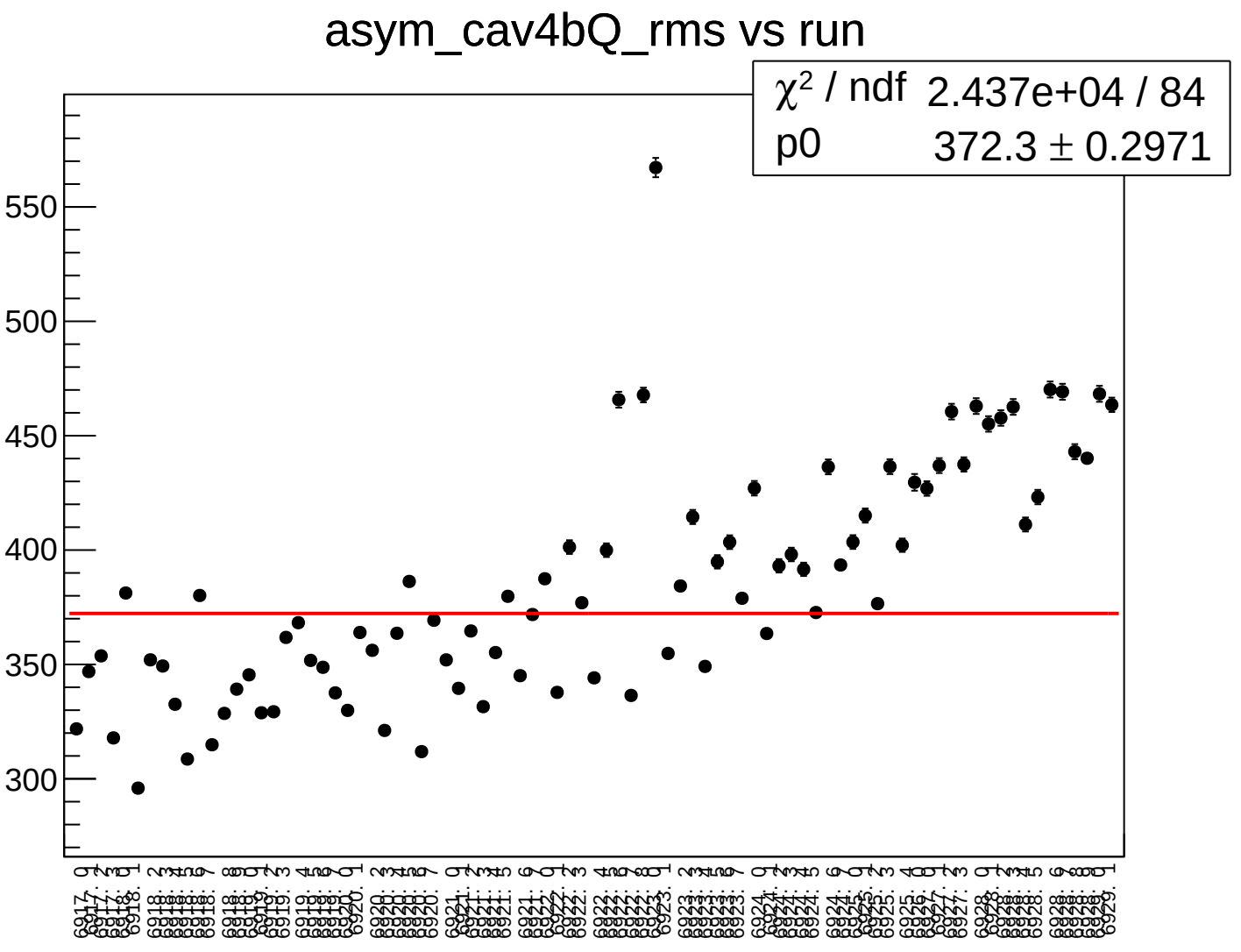

asym_bcm_dg_us_rms vs run
χ² / ndf 1.507e+05 / 84
p0 191.4 ± 0.1593
500
450
400
350
300
250
200
150
100

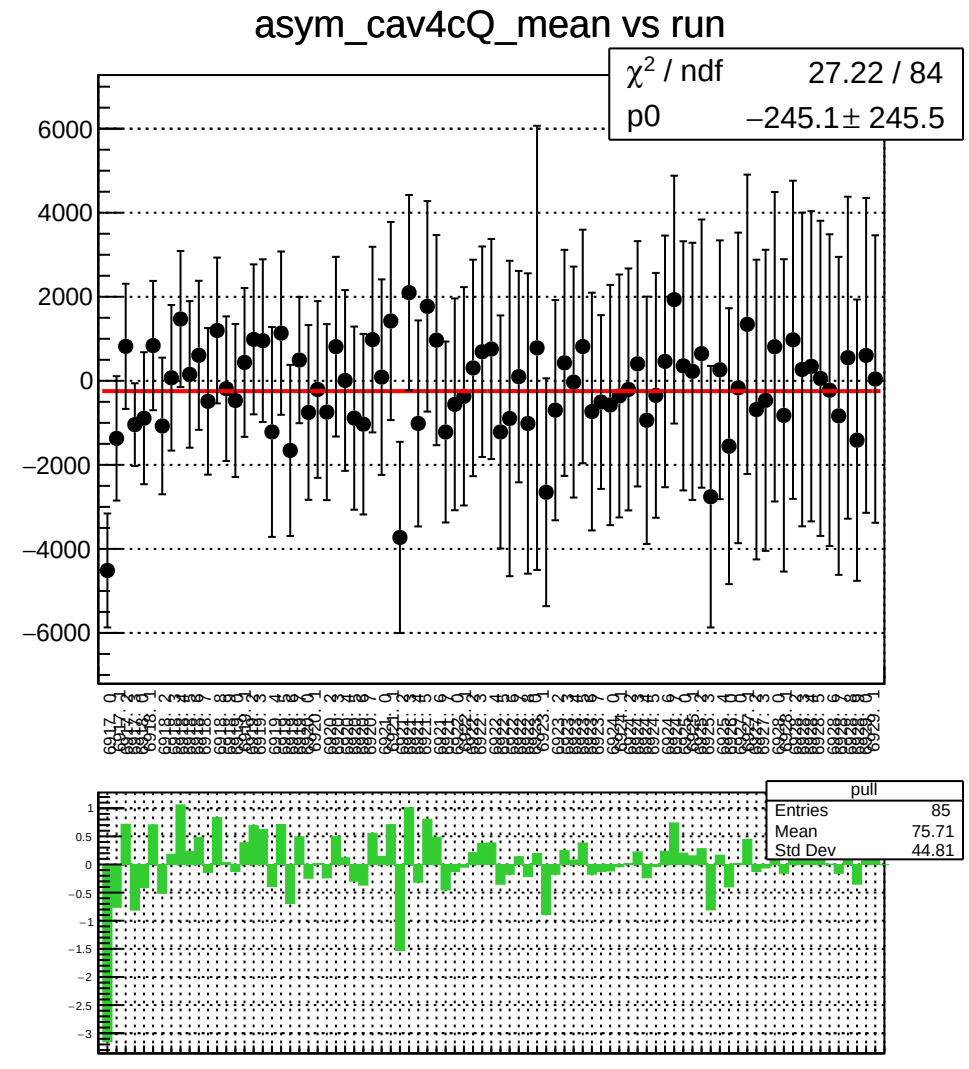

asym_bcm_dg_ds_mean vs run
χ² / ndf 22.42 / 84
p0 −123.8 ± 223.4
pull
Entries 85
Mean 88.6
Std Dev 68.29

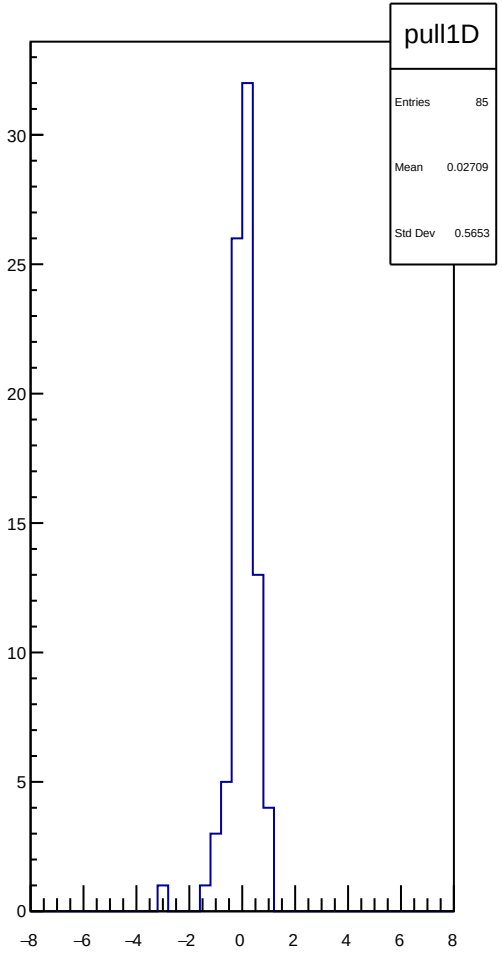

pull1D
Entries 85
Mean 0.01934
Std Dev 0.5132

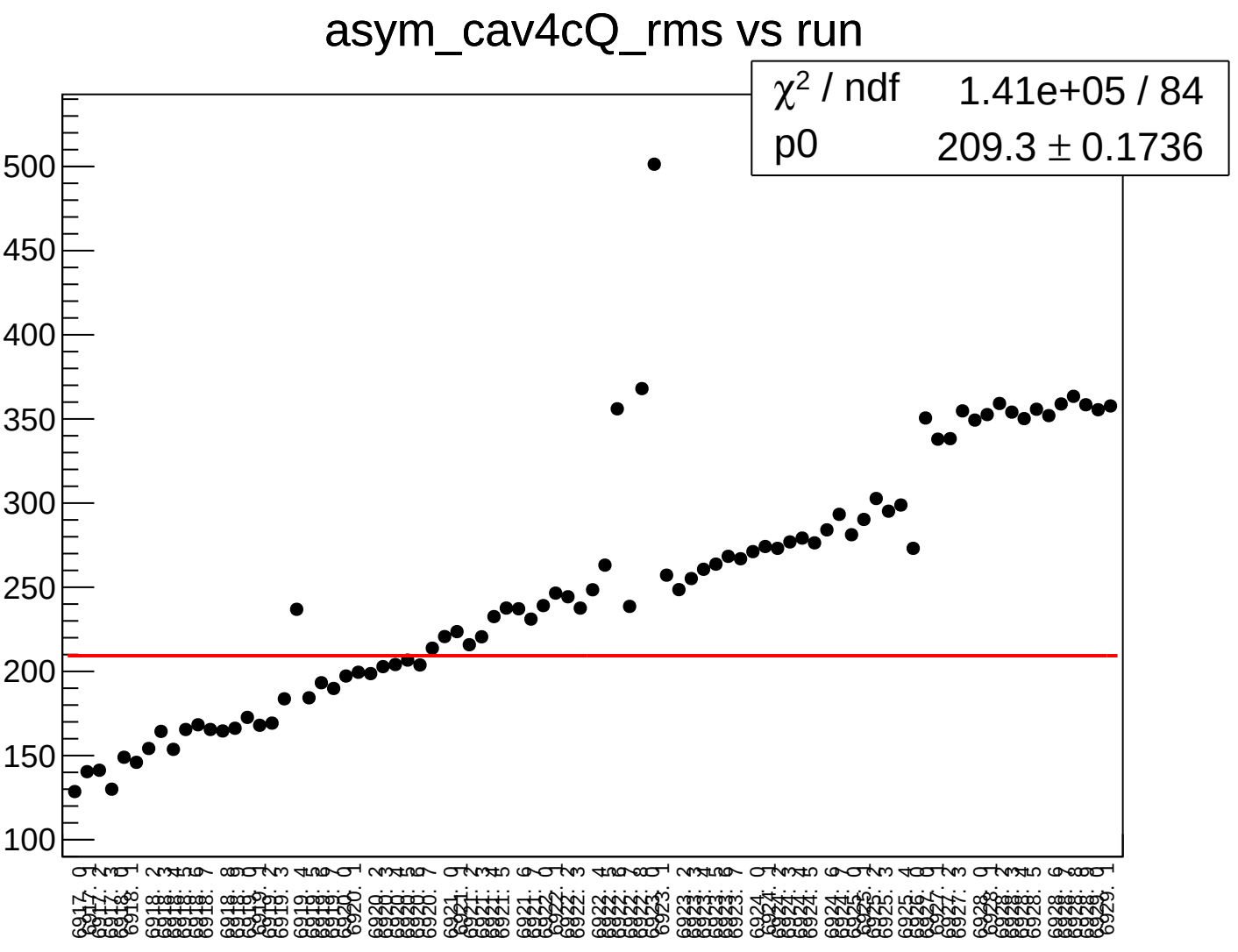

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.556e+05 / 84
p0 189.5 ± 0.1579
500
450
400
350
300
250
200
150
100

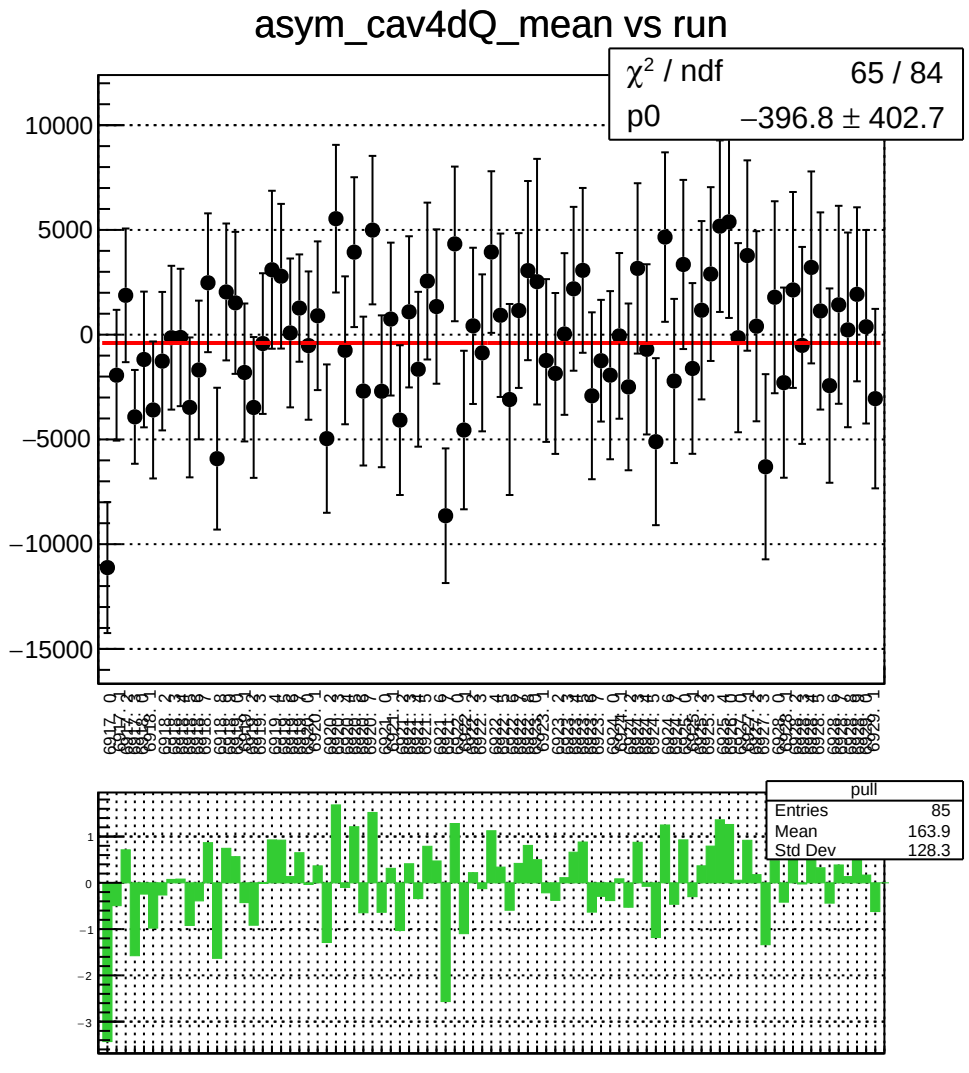

asym_cav4bQ_mean vs run
χ² / ndf 75.05 / 84
p0 −1018 ± 420.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 1364
Std Dev 1340
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.0009945
Std Dev 0.9396
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

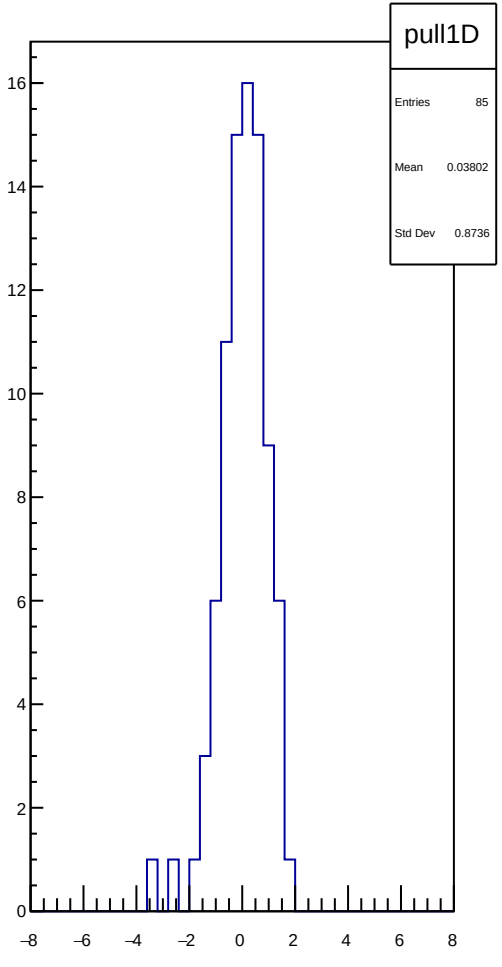

asym_cav4bQ_rms vs run
χ² / ndf 2.437e+04 / 84
p0 372.3 ± 0.2971
550
500
450
400
350
300

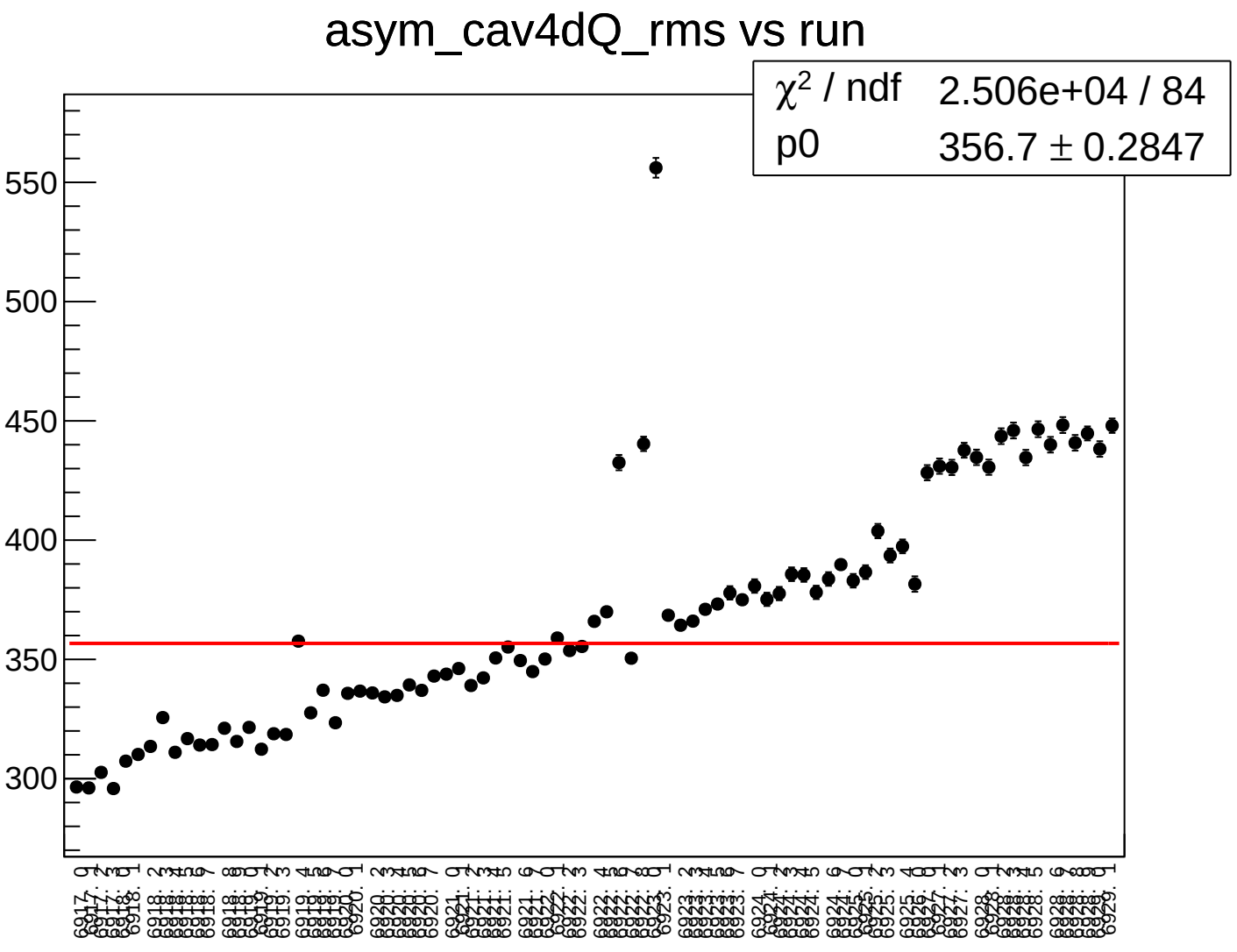

asym_cav4cQ_mean vs run
χ² / ndf 27.22 / 84
p0 −245.1 ± 245.5
pull
Entries 85
Mean 75.71
Std Dev 44.81

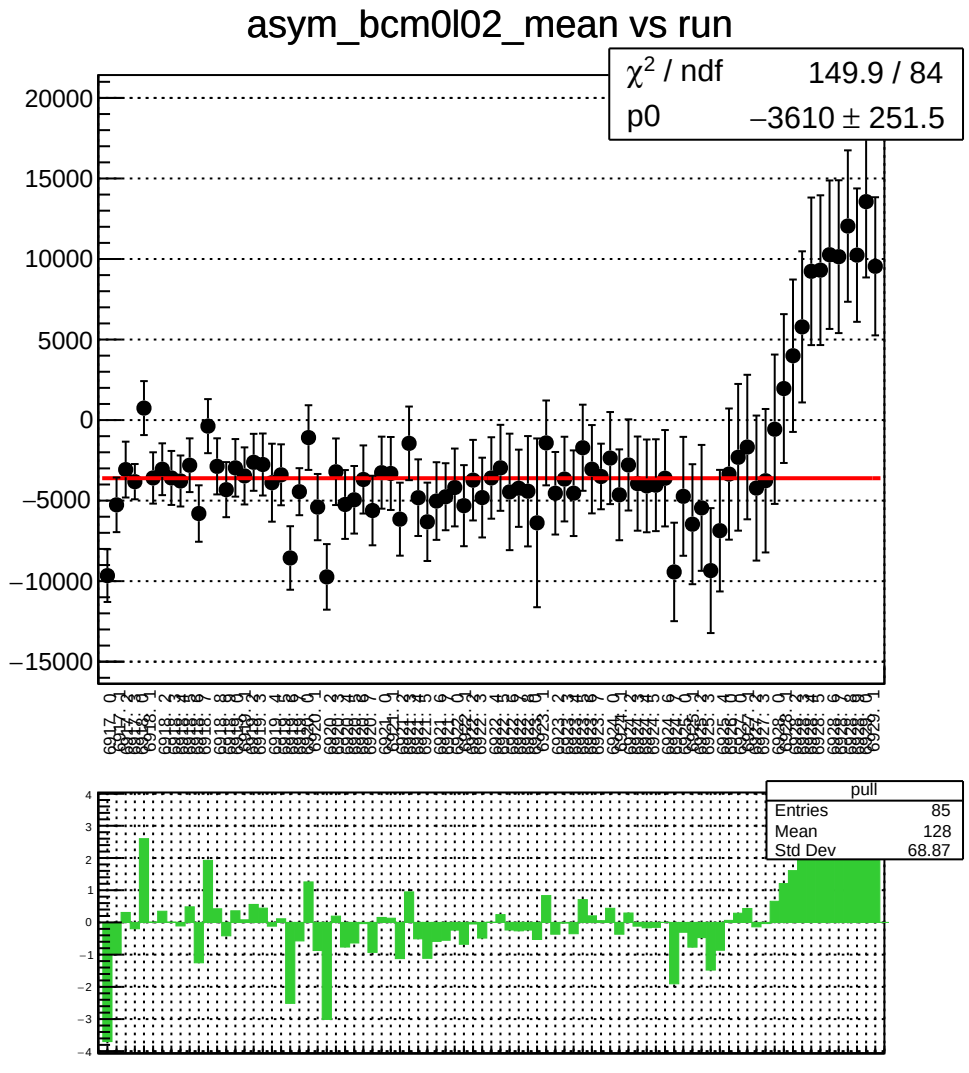

pull1D
Entries 85
Mean 0.02709
Std Dev 0.5653

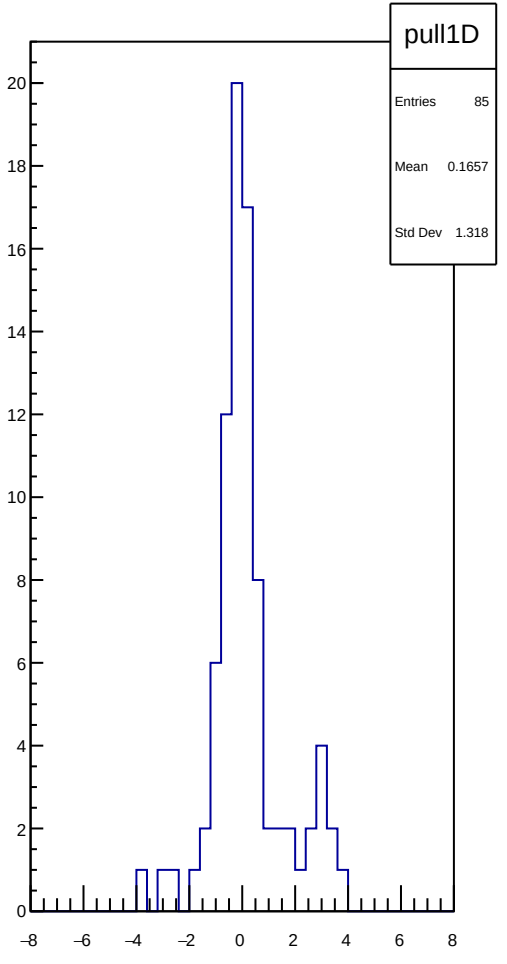

asym_cav4cQ_rms vs run
χ² / ndf 1.41e+05 / 84
p0 209.3 ± 0.1736
500
450
400
350
300
250
200
150
100

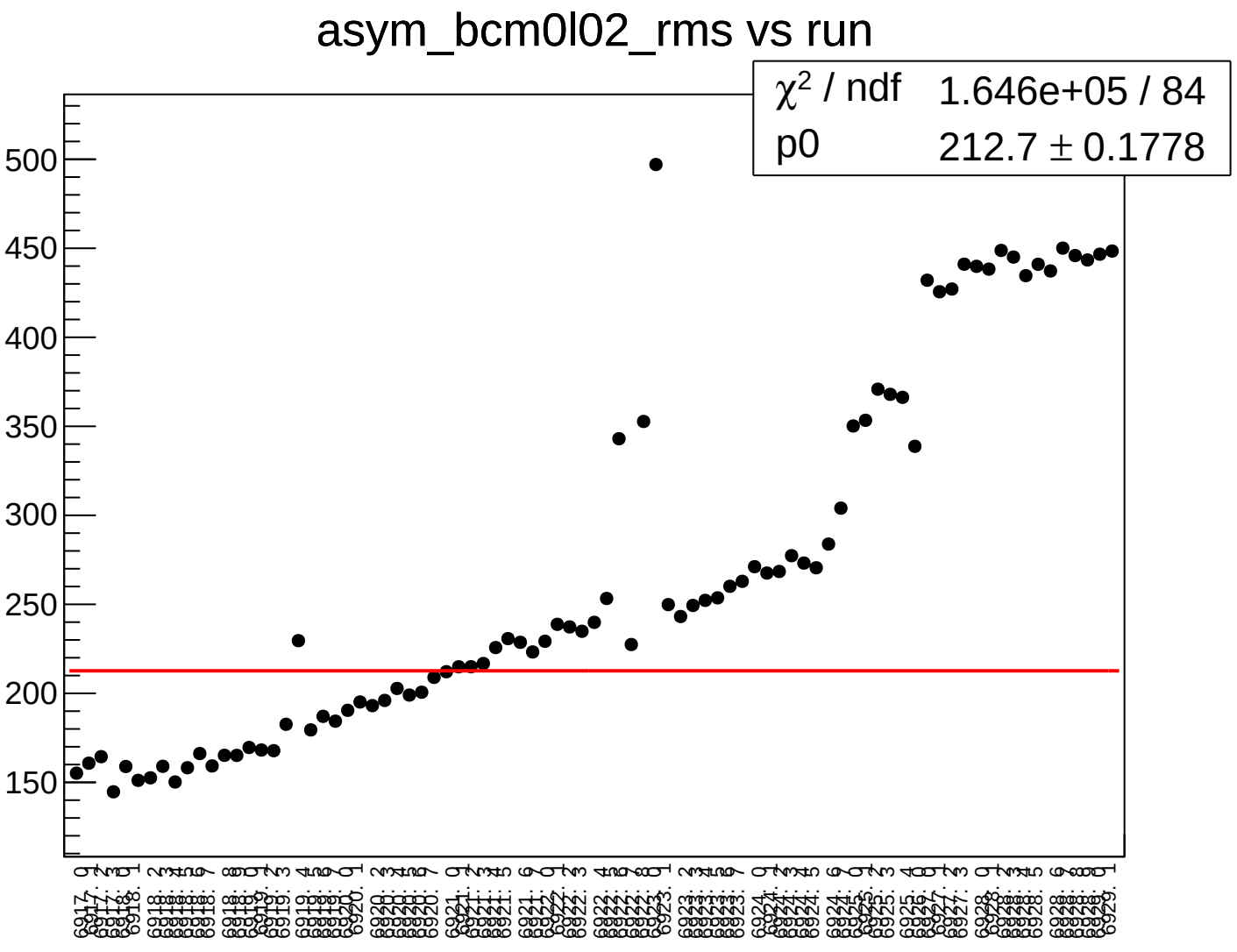

asym_cav4dQ_mean vs run
χ² / ndf 65 / 84
p0 −396.8 ± 402.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 163.9
Std Dev 128.3
1
0
−1
−2
−3

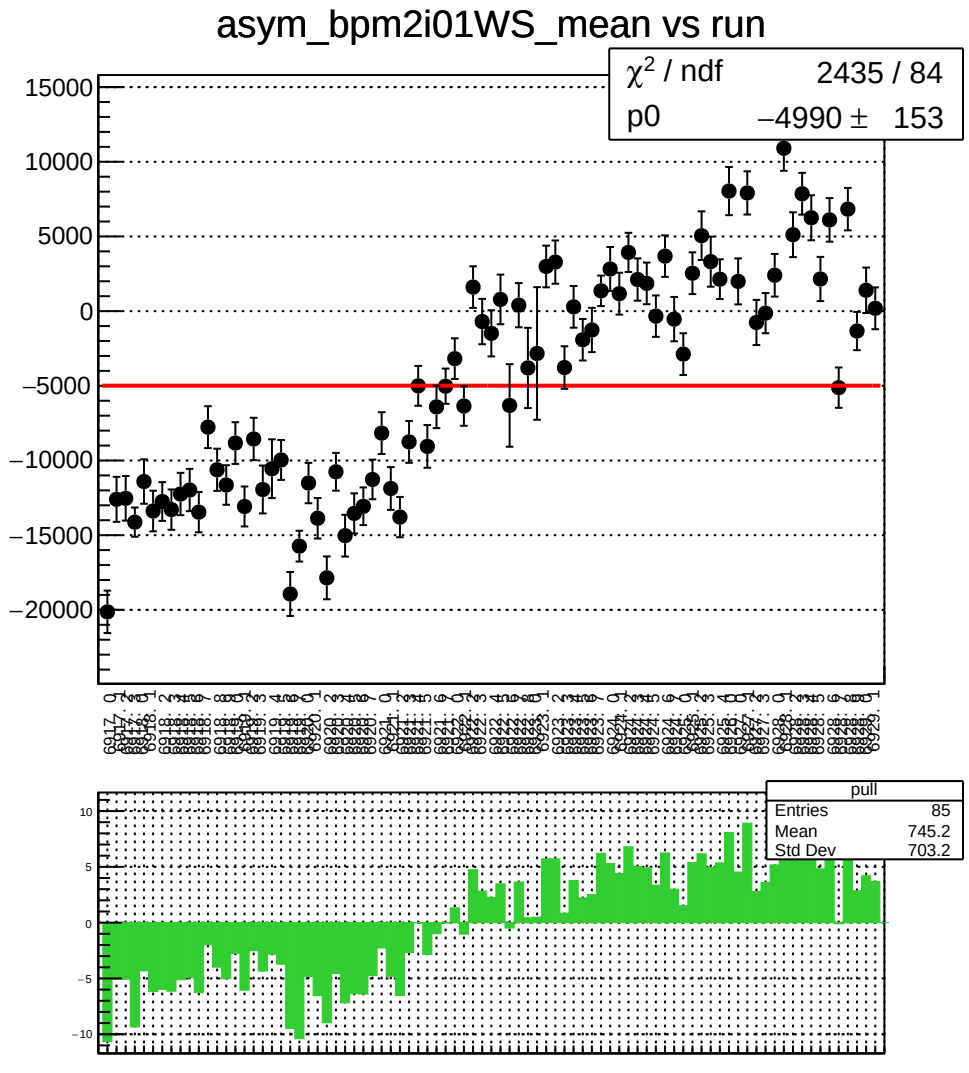

pull1D
Entries 85
Mean 0.03802
Std Dev 0.8736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

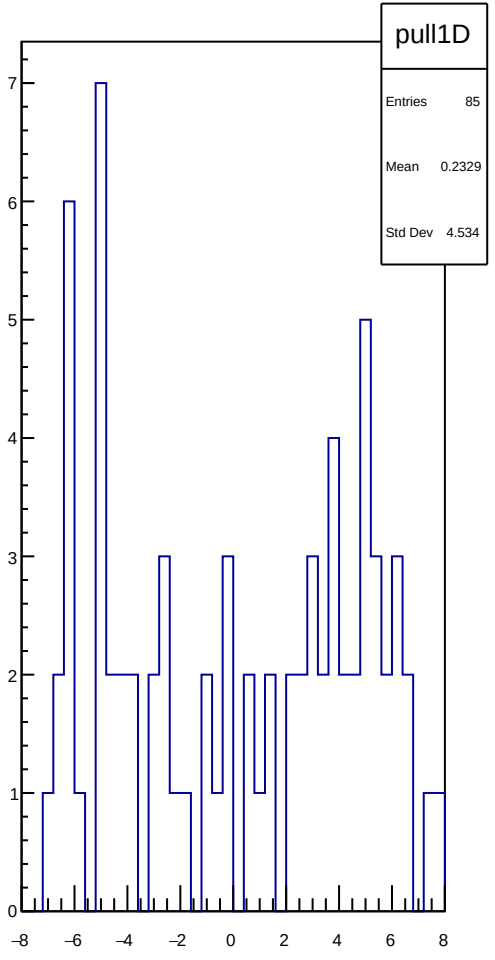

asym_cav4dQ_rms vs run
χ² / ndf 2.506e+04 / 84
p0 356.7 ± 0.2847
550
500
450
400
350
300

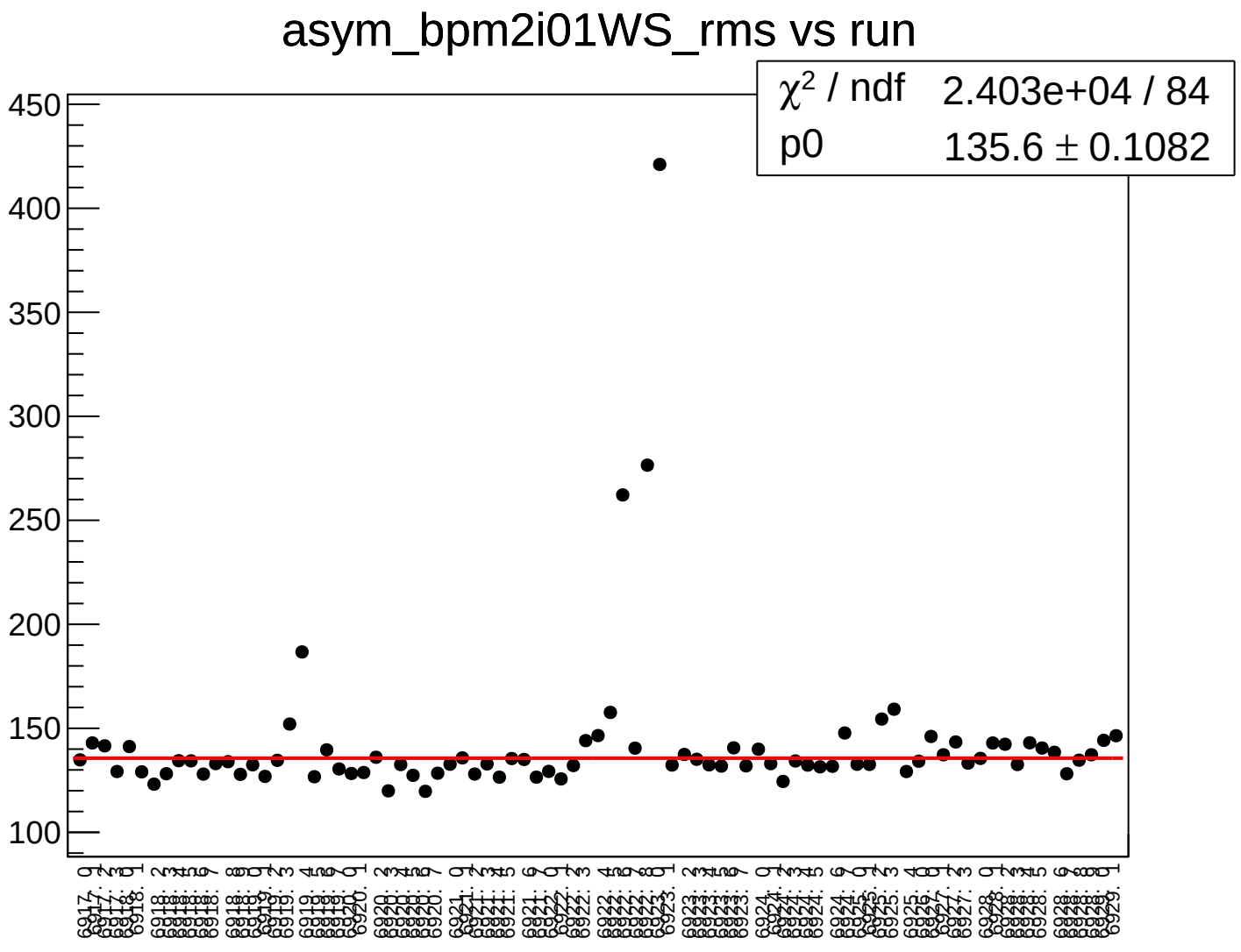

asym_bcm0l02_mean vs run
χ² / ndf 149.9 / 84
p0 −3610 ± 251.5
pull
Entries 85
Mean 128
Std Dev 68.87

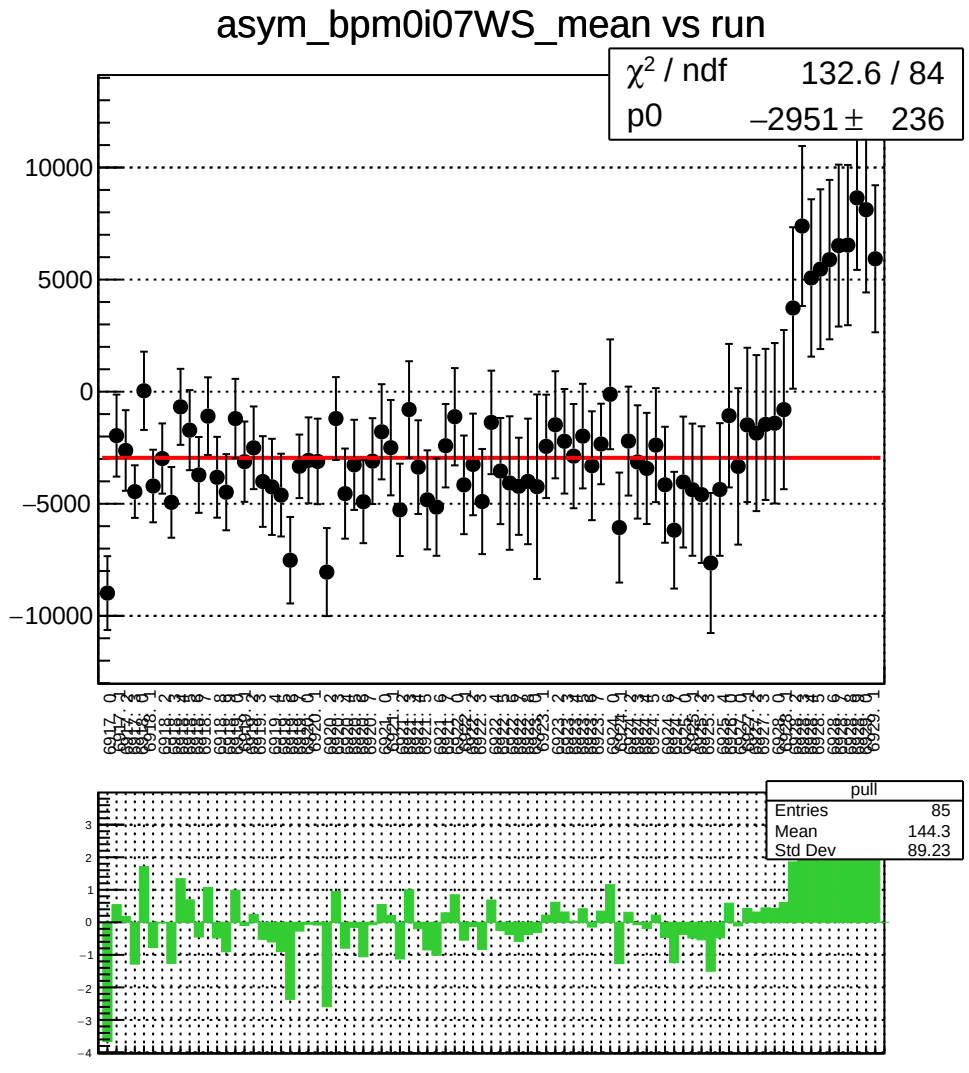

pull1D
Entries 85
Mean 0.1657
Std Dev 1.318

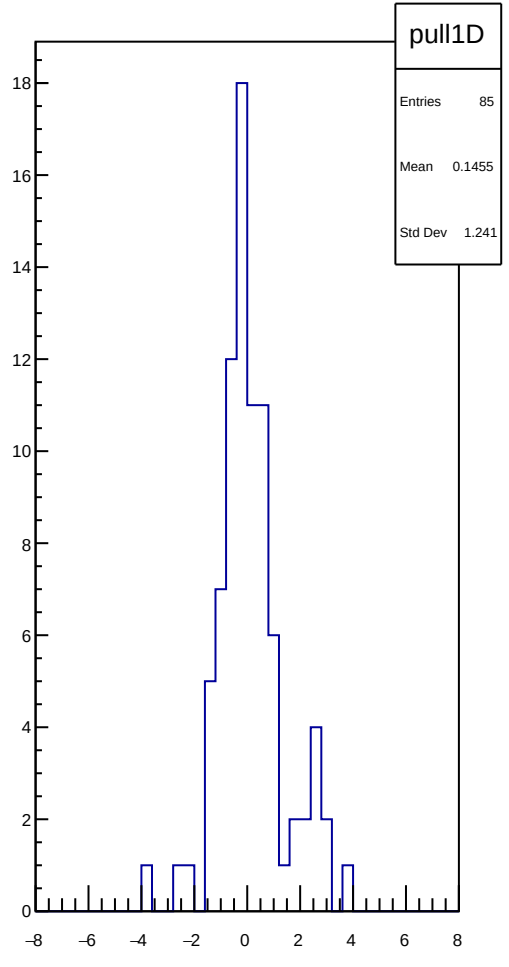

asym_bcm0l02_rms vs run
χ^2 / ndf 1.646e+05 / 84
p0 212.7 ± 0.1778
500
450
400
350
300
250
200
150

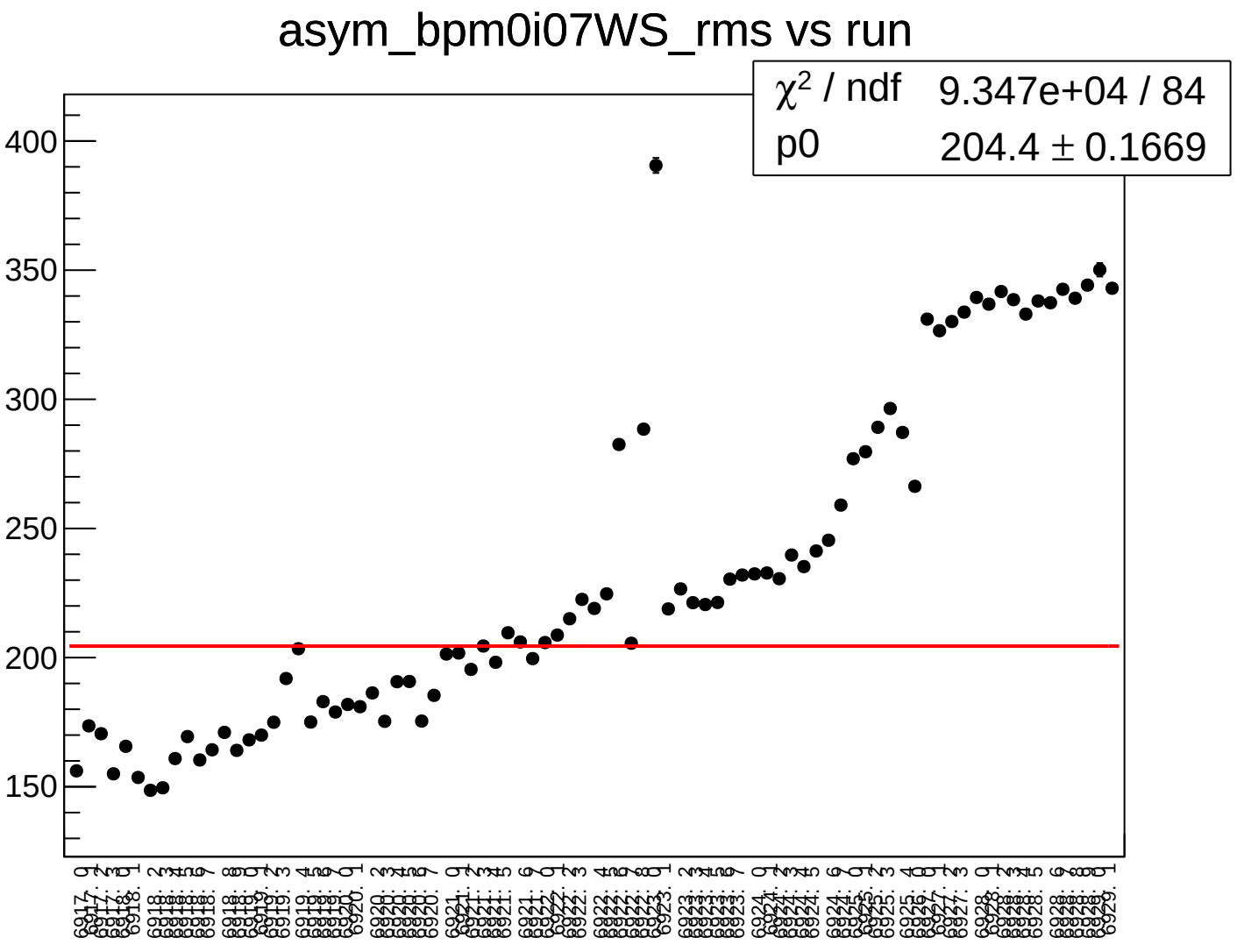

asym_bpm2i01WS_mean vs run
χ² / ndf 2435 / 84
p0 −4990 ± 153
pull
Entries 85
Mean 745.2
Std Dev 703.2

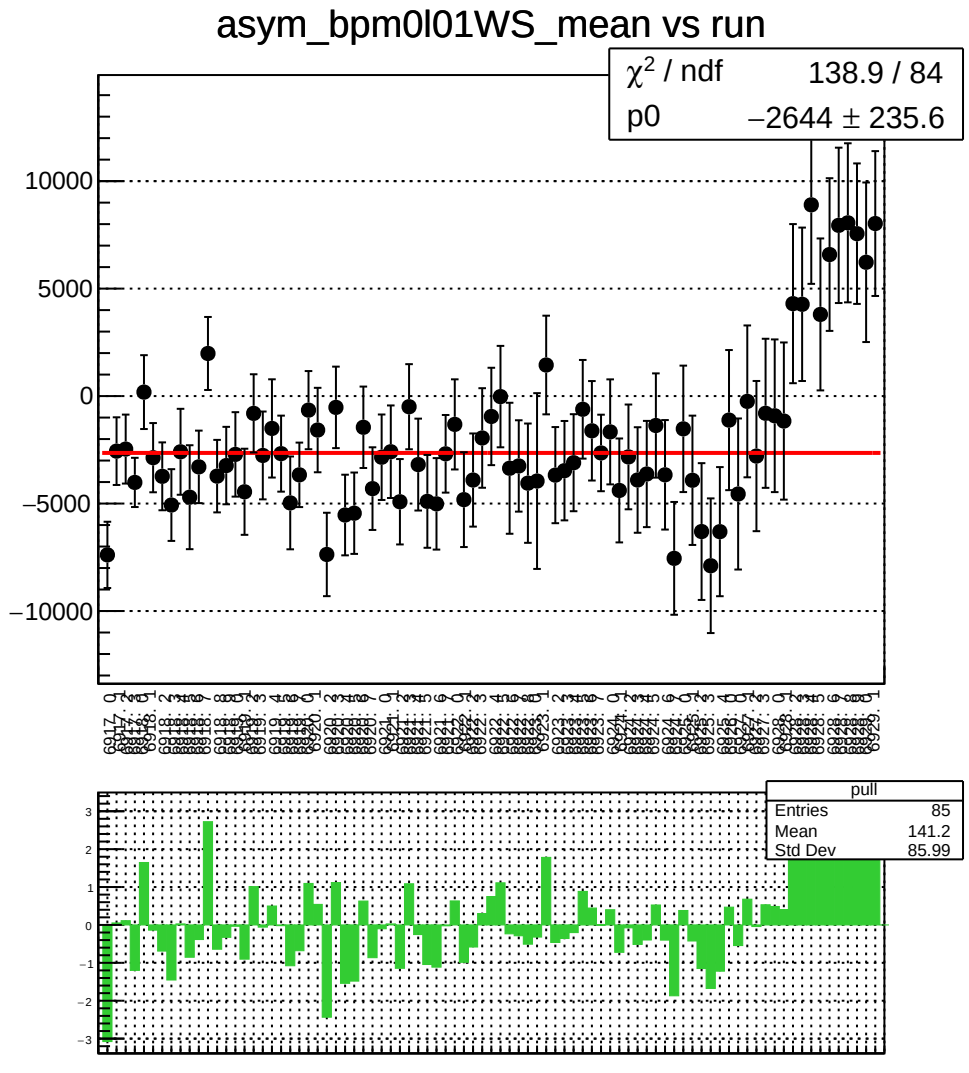

pull1D
Entries 85
Mean 0.2329
Std Dev 4.534

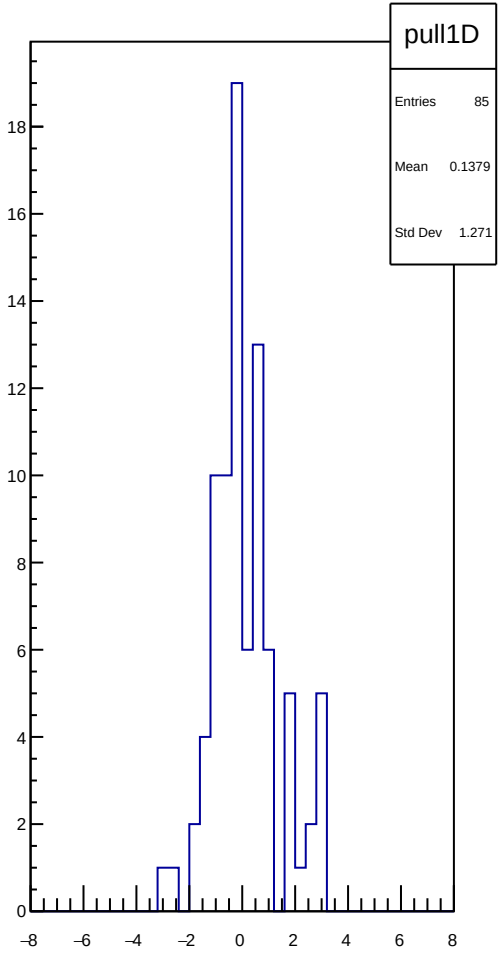

asym_bpm2i01WS_rms vs run
χ^2 / ndf 2.403e+04 / 84
p0 135.6 ± 0.1082
450
400
350
300
250
200
150
100

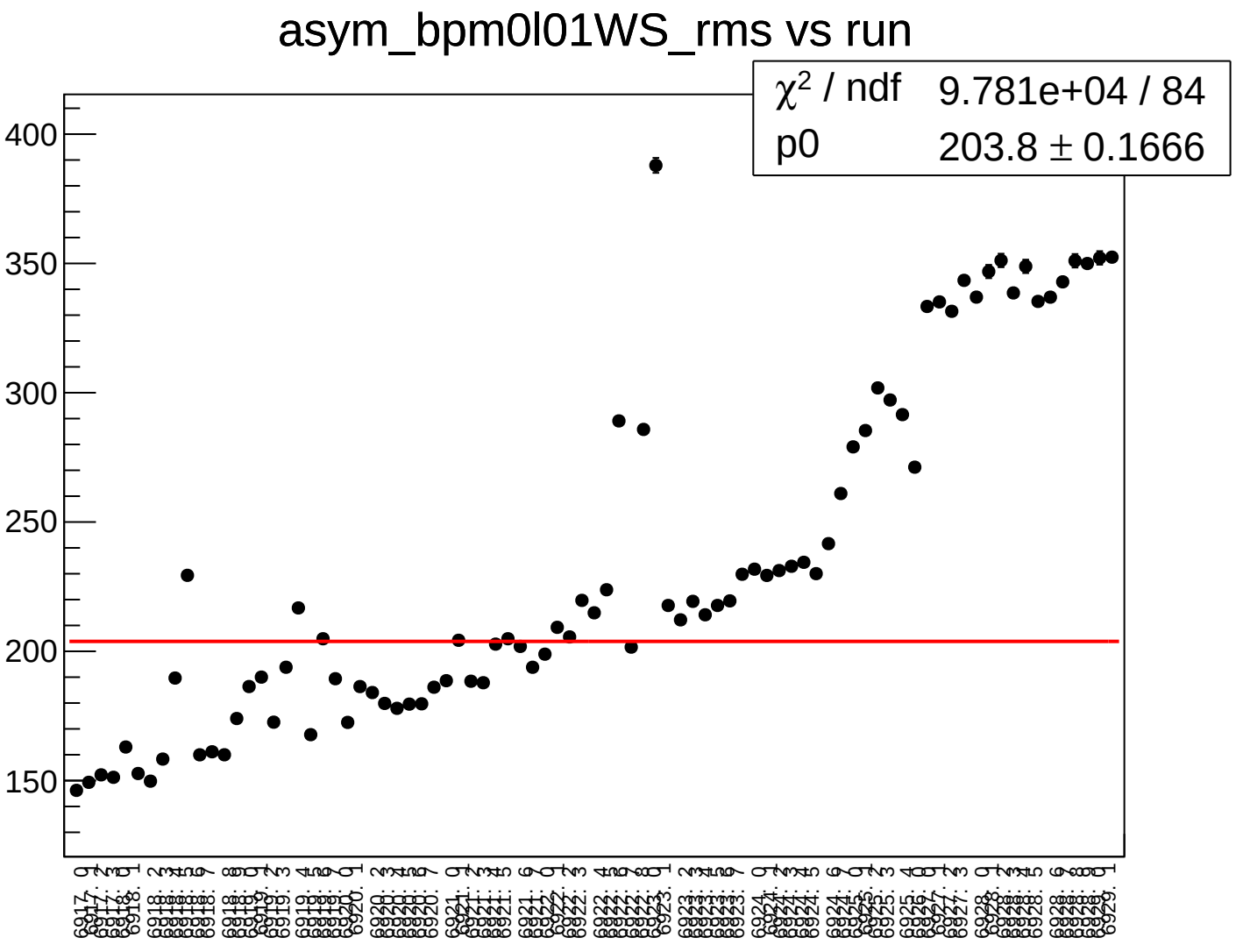

asym_bpm0i07WS_mean vs run
χ² / ndf 132.6 / 84
p0 −2951 ± 236
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 144.3
Std Dev 89.23
3
2
1
0
−1
−2
−3
−4

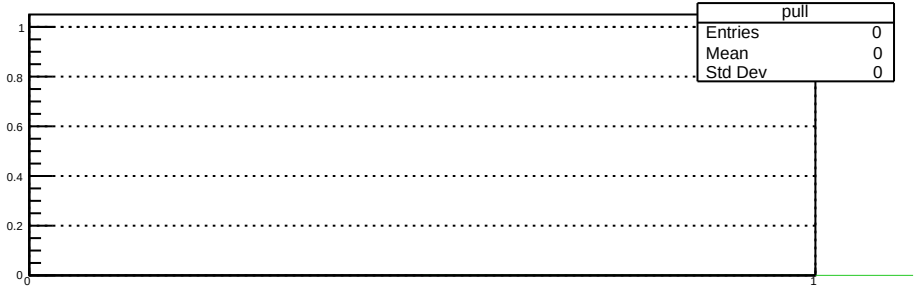

pull1D
Entries 85
Mean 0.1455
Std Dev 1.241
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

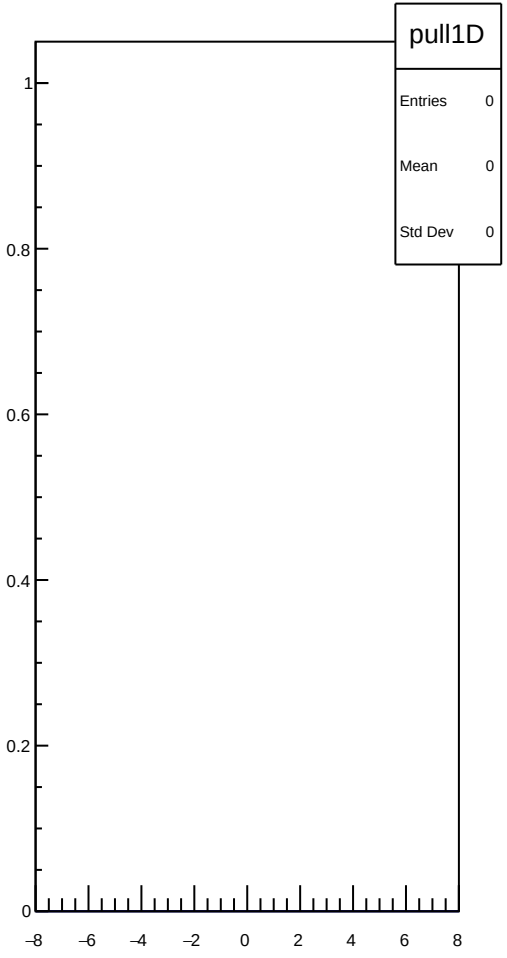

asym_bpm0i07WS_rms vs run
χ² / ndf 9.347e+04 / 84
p0 204.4 ± 0.1669
400
350
300
250
200
150

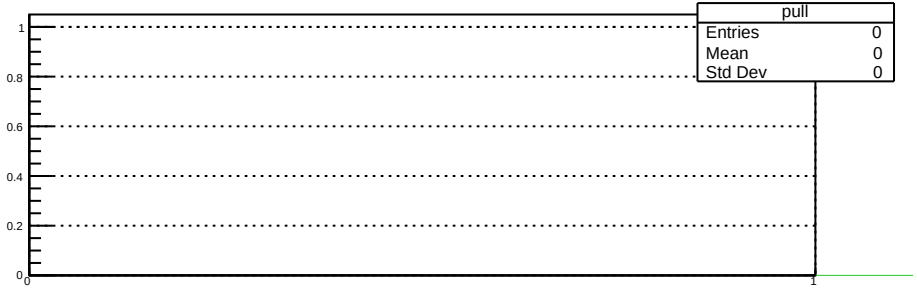

asym_bpm0l01WS_mean vs run
χ² / ndf 138.9 / 84
p0 −2644 ± 235.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 141.2
Std Dev 85.99
3
2
1
0
−1
−2
−3

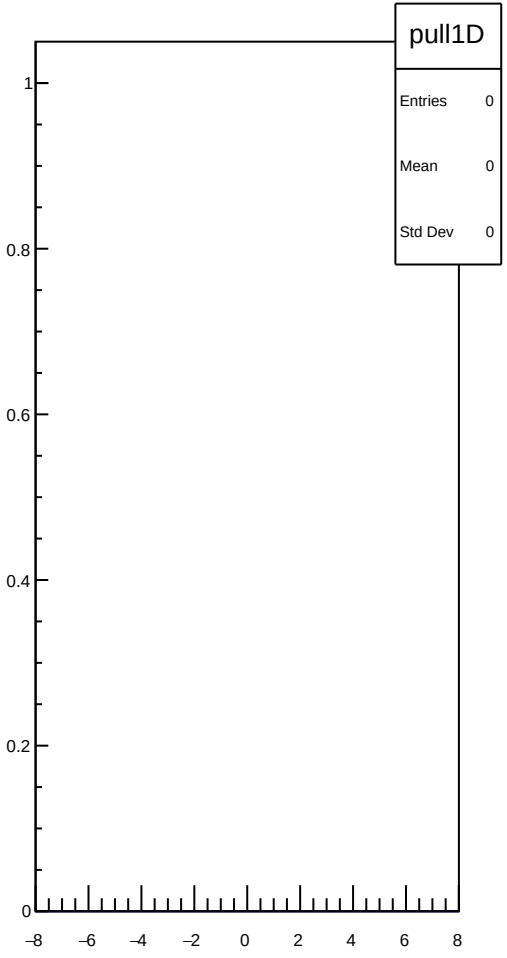

pull1D
Entries 85
Mean 0.1379
Std Dev 1.271
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

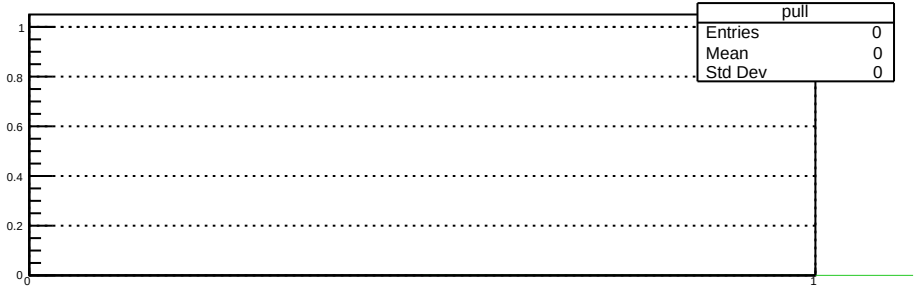

asym_bpm0l01WS_rms vs run
χ² / ndf 9.781e+04 / 84
p0 203.8 ± 0.1666
400
350
300
250
200
150

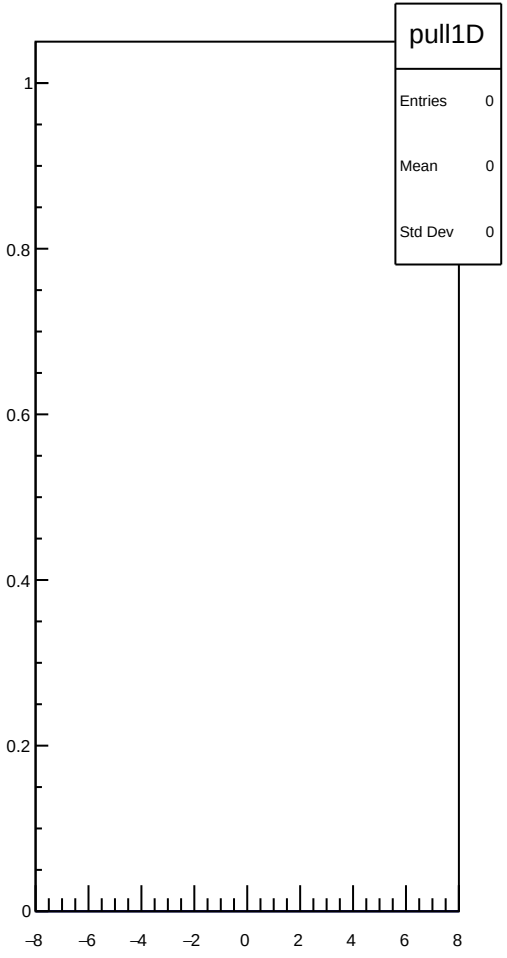

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

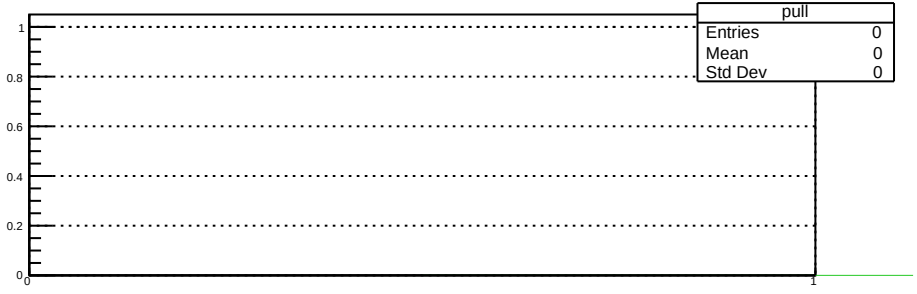

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

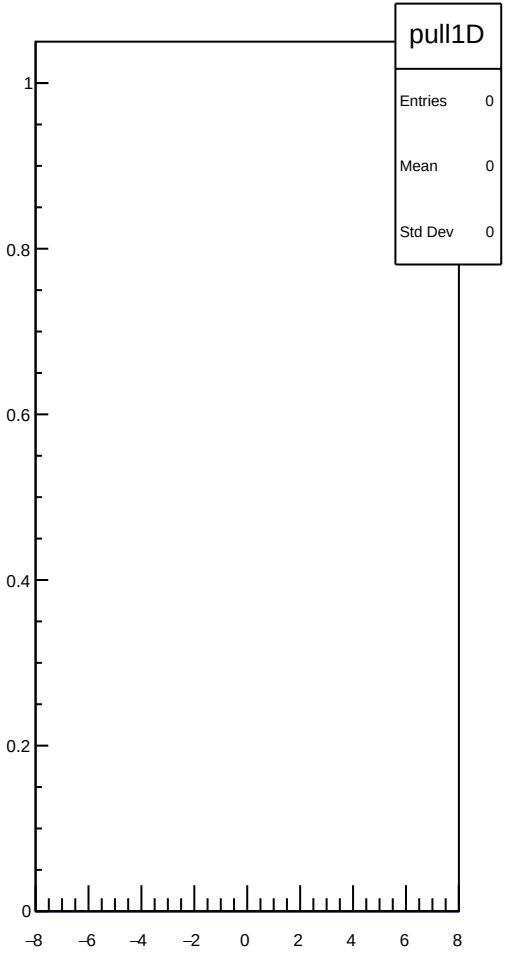

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

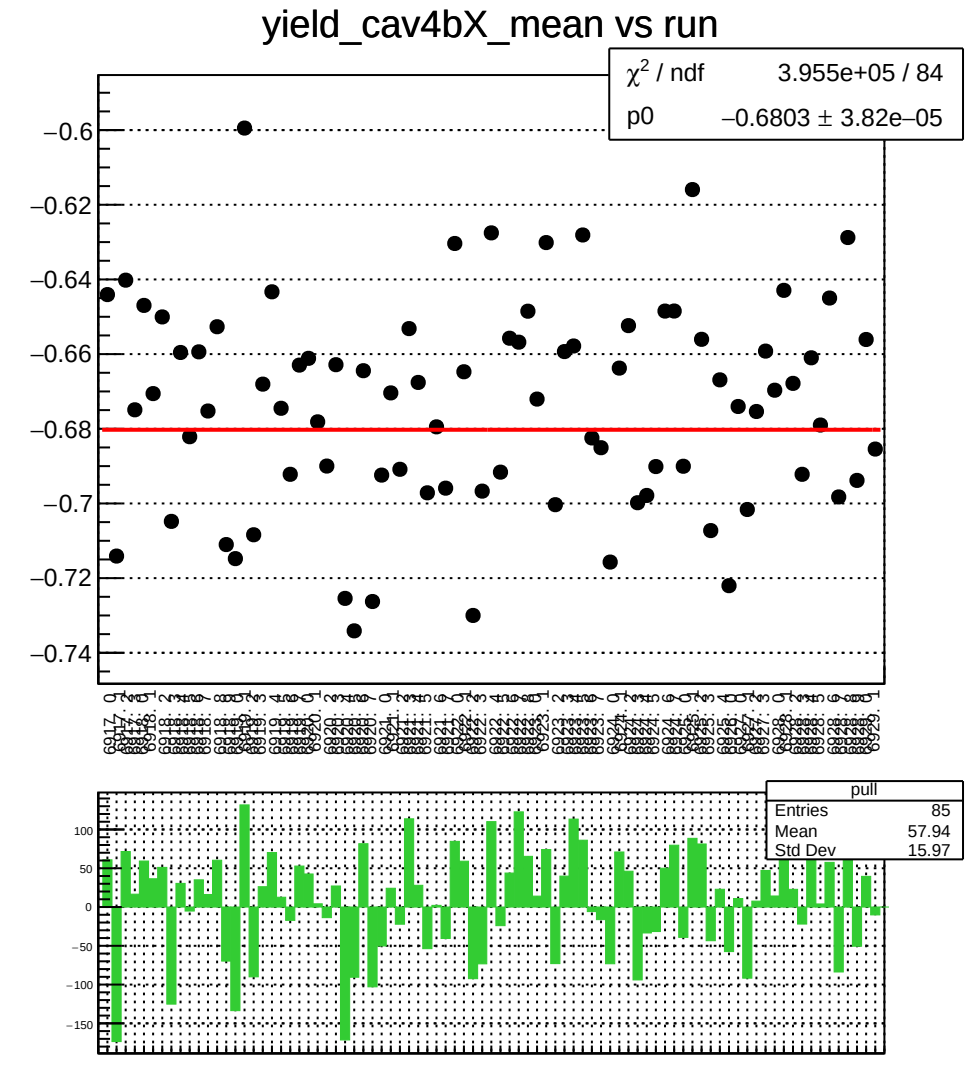

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

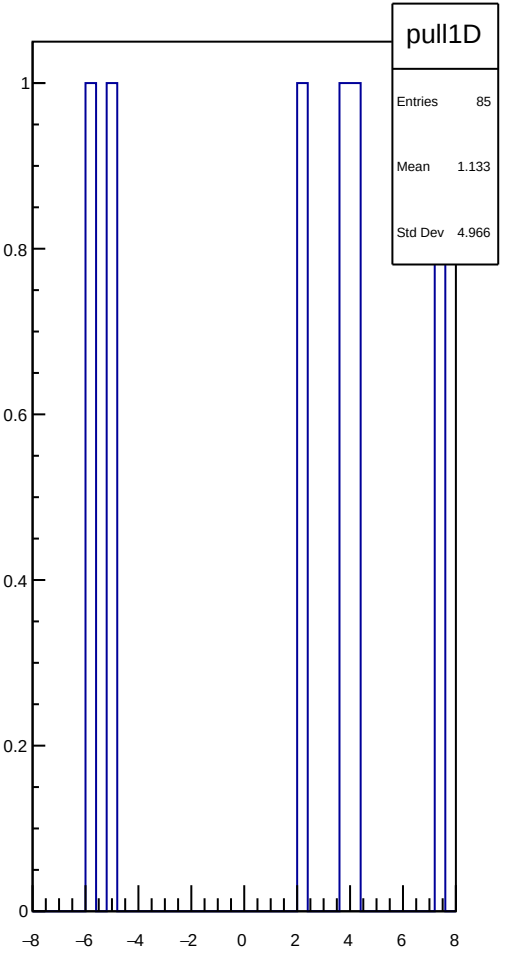

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

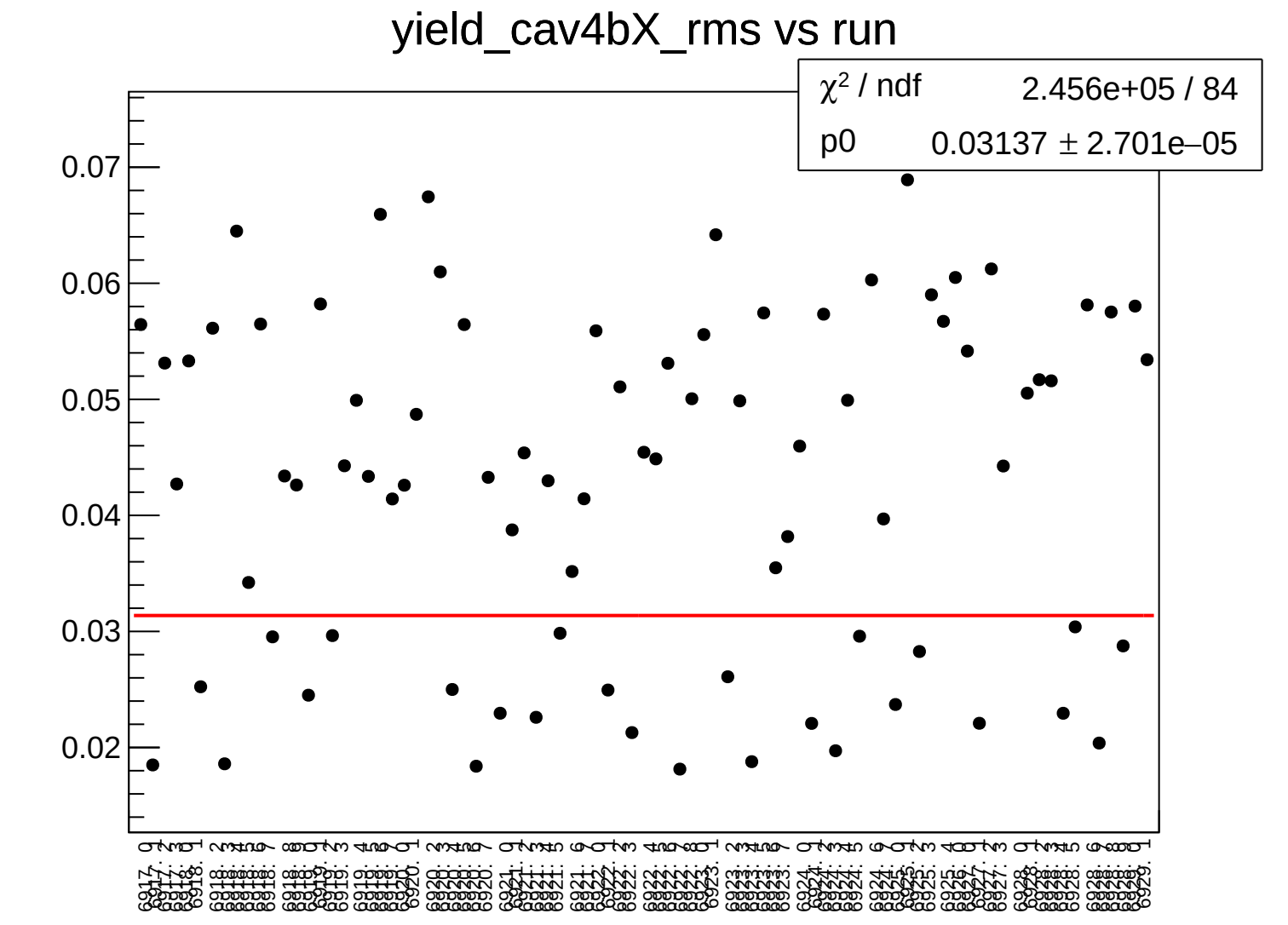

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

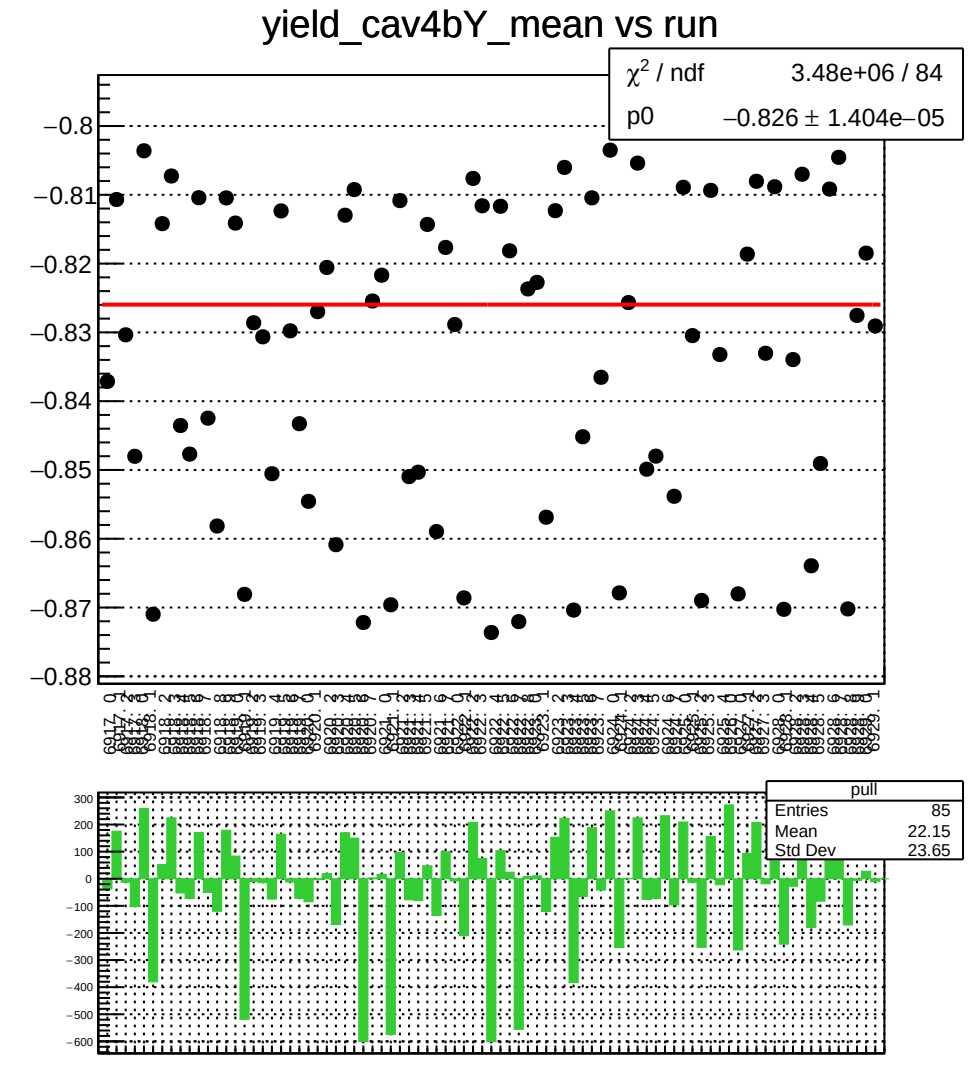

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

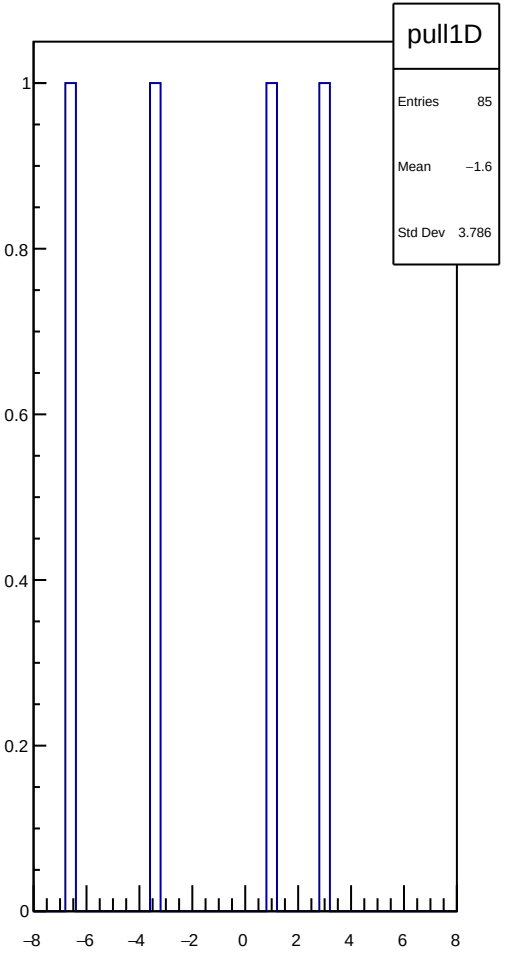

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

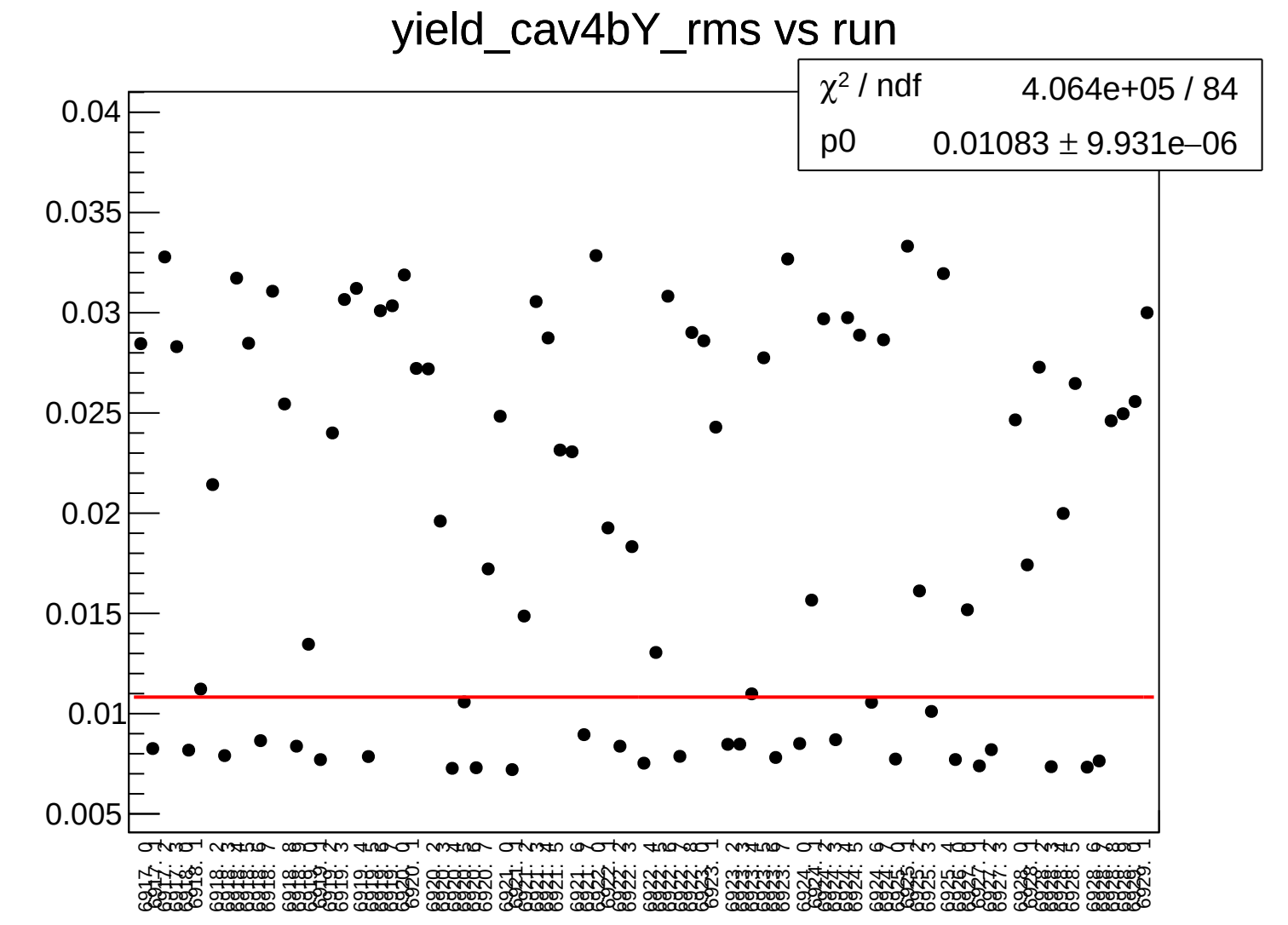

yield_cav4bX_mean vs run
χ² / ndf 3.955e+05 / 84
p0 −0.6803 ± 3.82e−05
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
pull
Entries 85
Mean 57.94
Std Dev 15.97
100
50
0
−50
−100
−150

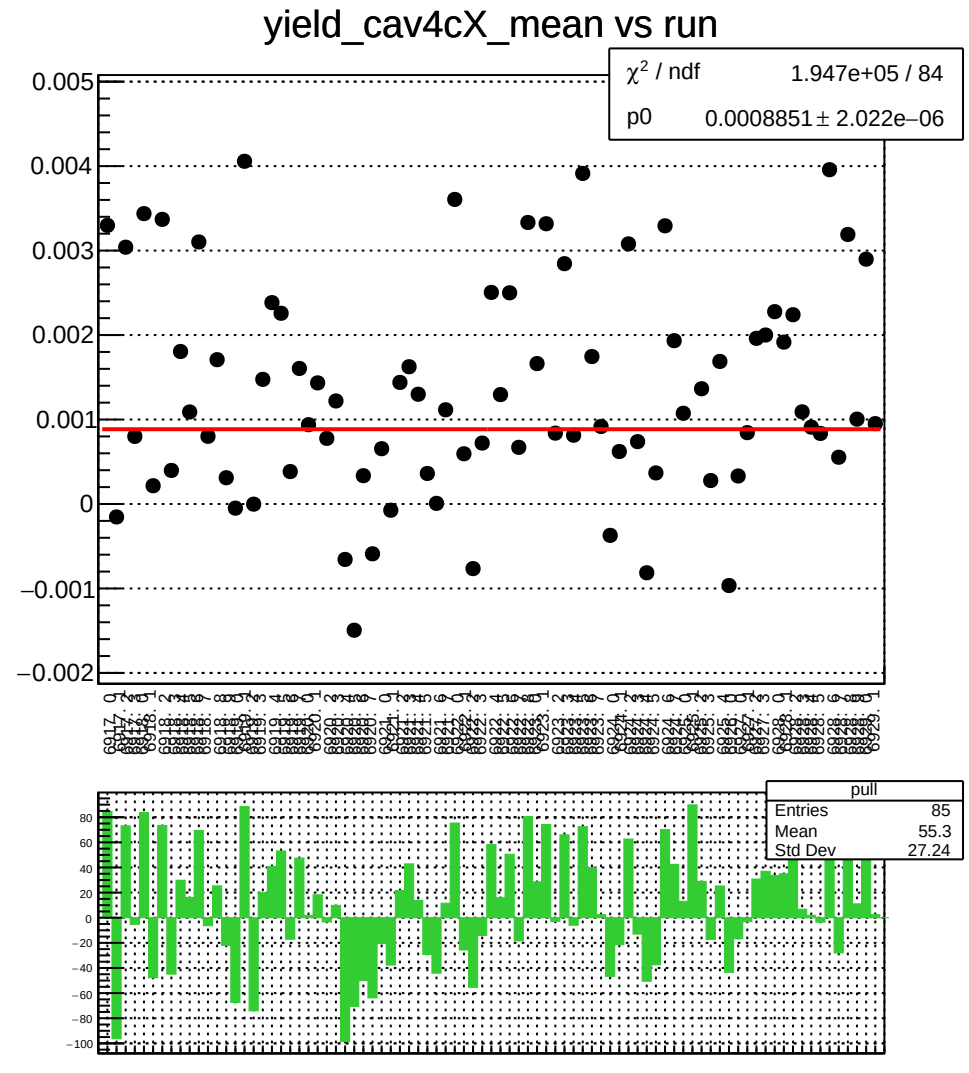

pull1D
Entries 85
Mean 1.133
Std Dev 4.966
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

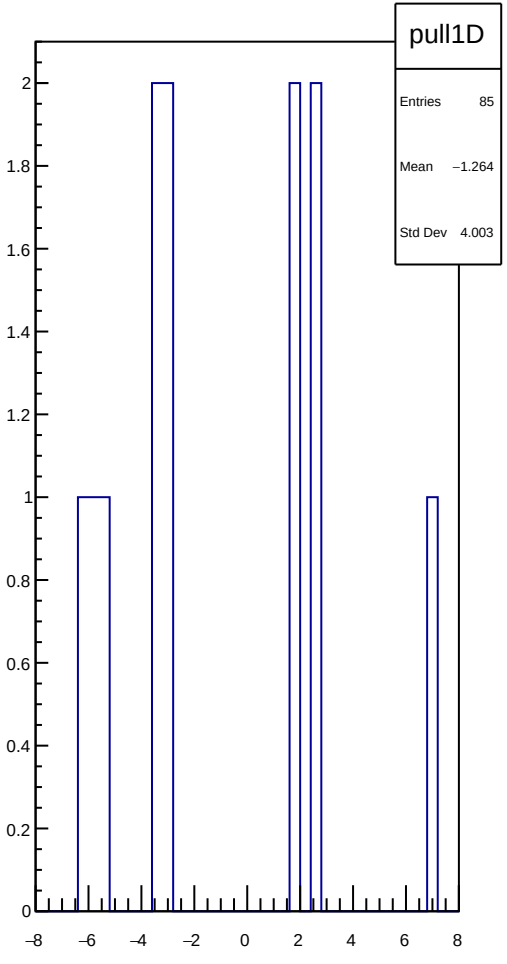

yield_cav4bX_rms vs run
χ² / ndf 2.456e+05 / 84
p0 0.03137 ± 2.701e−05
0.07
0.06
0.05
0.04
0.03
0.02

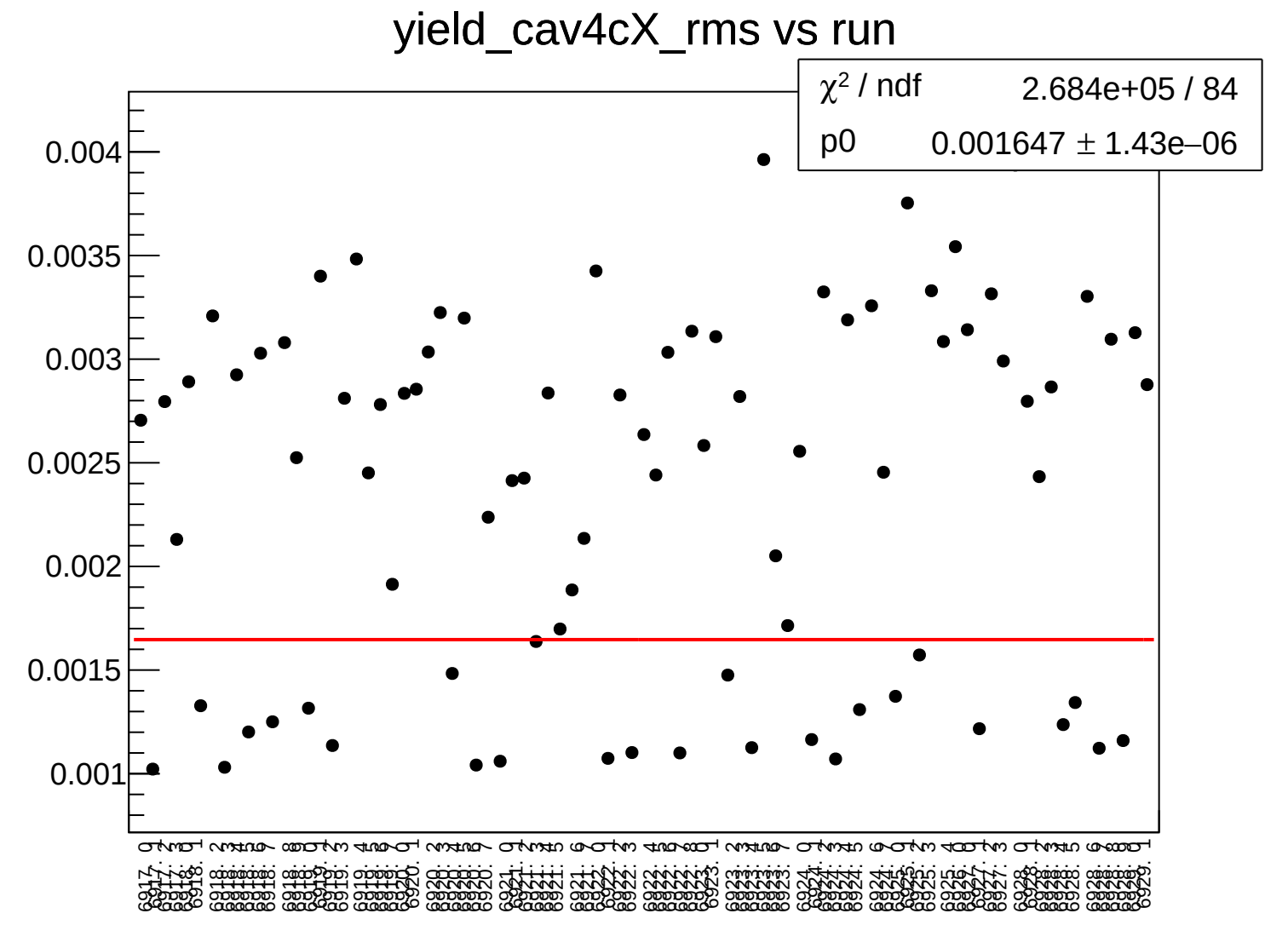

yield_cav4bY_mean vs run
χ² / ndf 3.48e+06 / 84
p0 −0.826 ± 1.404e−05
−0.8
−0.81
−0.82
−0.83
−0.84
−0.85
−0.86
−0.87
−0.88
pull
Entries 85
Mean 22.15
Std Dev 23.65
300
200
100
0
−100
−200
−300
−400
−500
−600

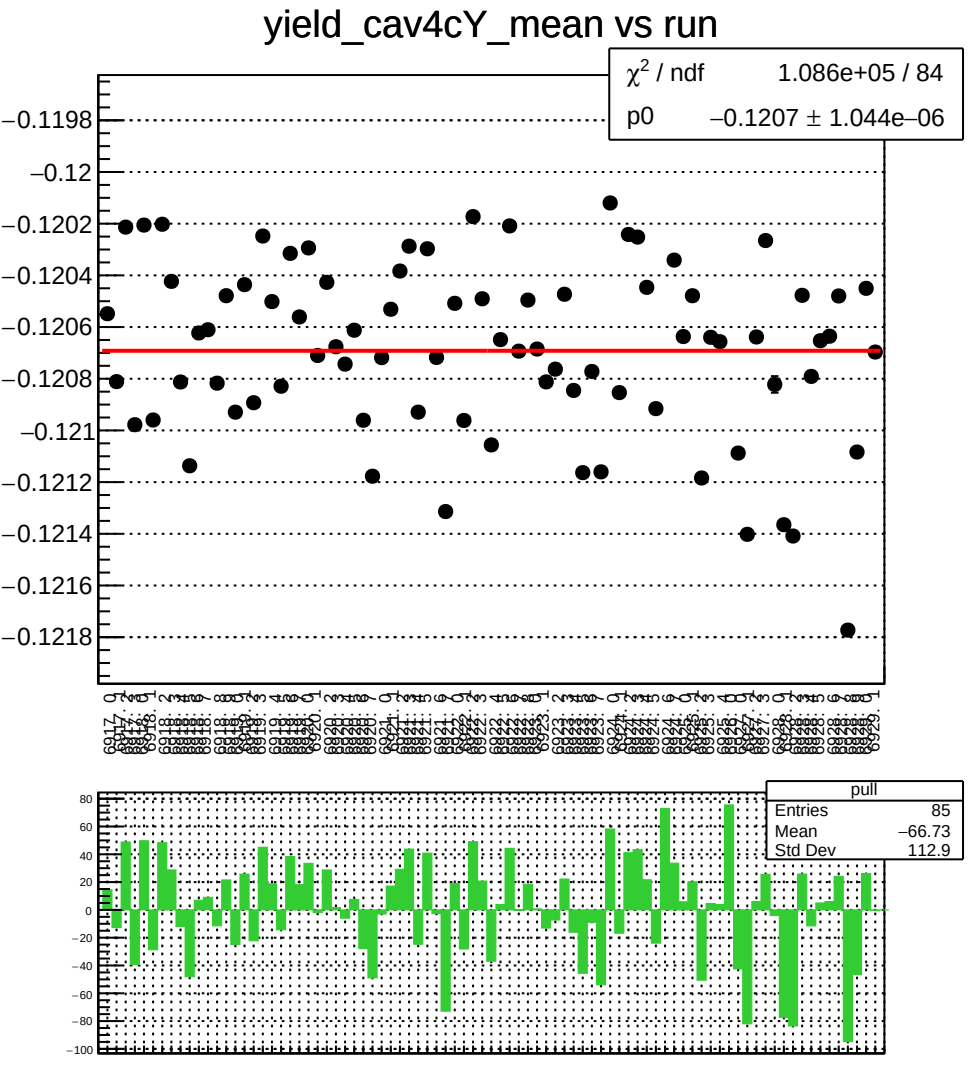

pull1D
Entries 85
Mean −1.6
Std Dev 3.786
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

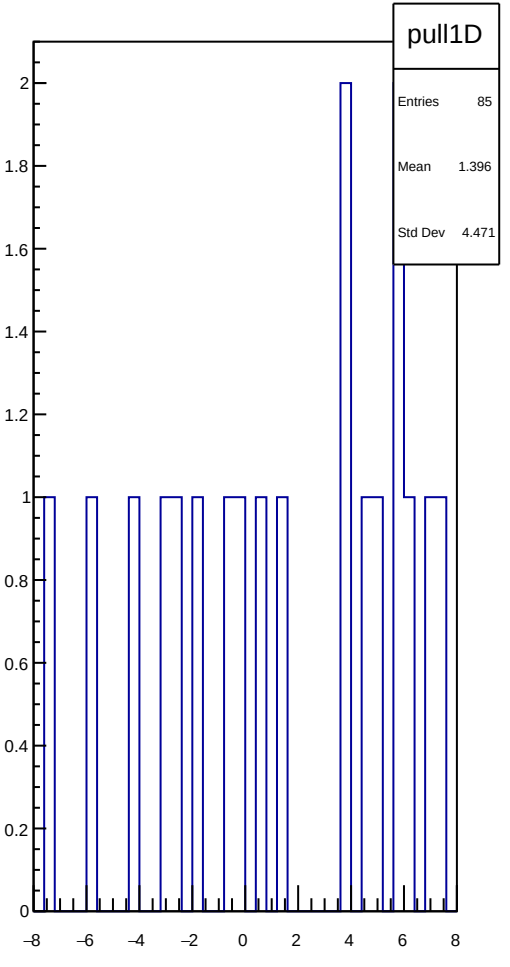

yield_cav4bY_rms vs run
χ² / ndf 4.064e+05 / 84
p0 0.01083 ± 9.931e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

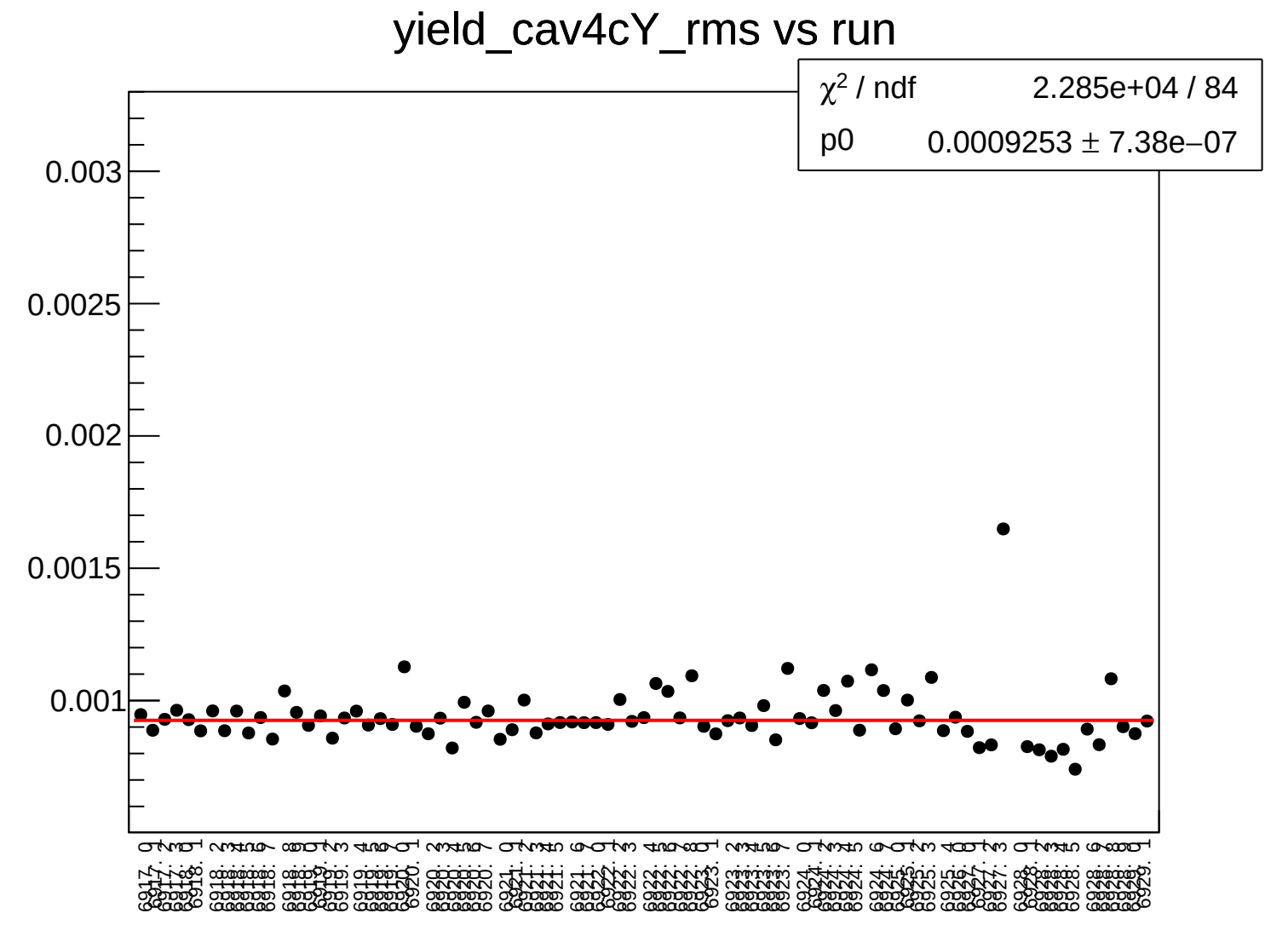

yield_cav4cX_mean vs run
χ² / ndf 1.947e+05 / 84
p0 0.0008851 ± 2.022e−06
pull
Entries 85
Mean 55.3
Std Dev 27.24

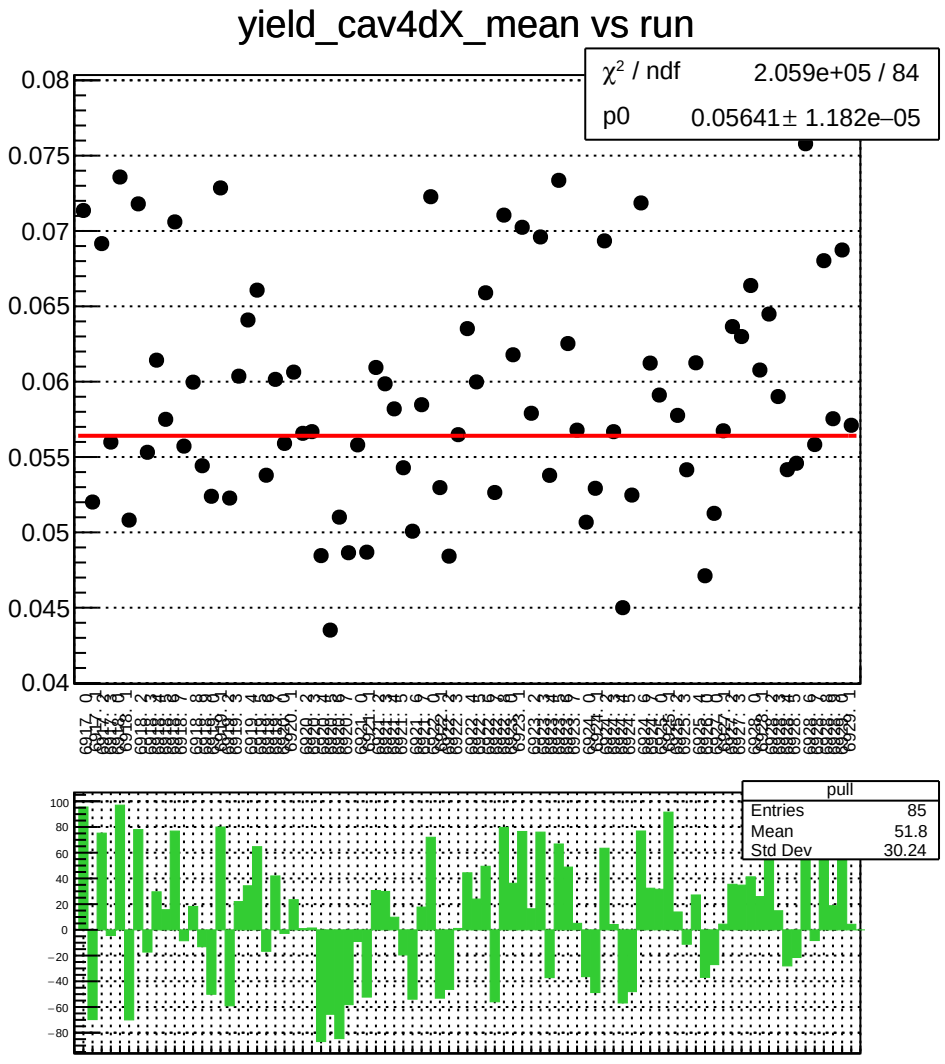

pull1D
Entries 85
Mean −1.264
Std Dev 4.003

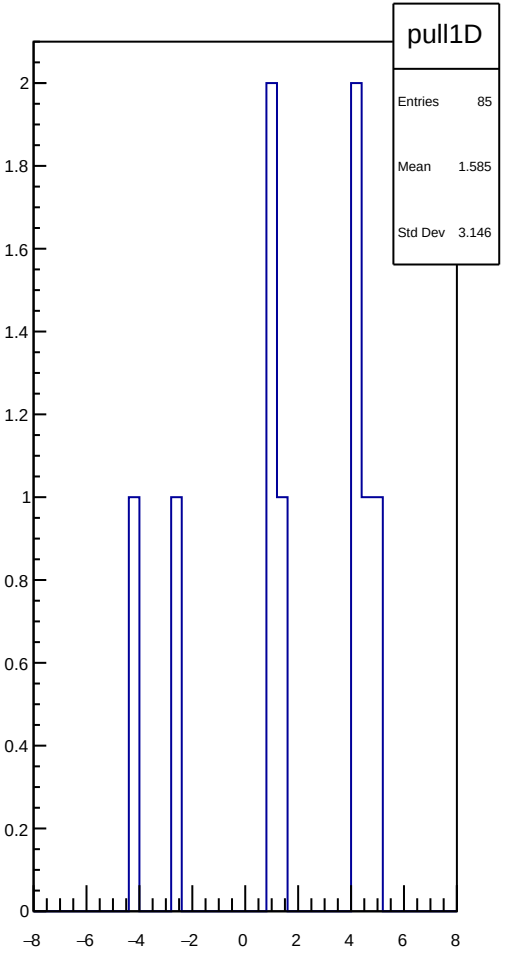

yield_cav4cX_rms vs run
χ² / ndf 2.684e+05 / 84
p0 0.001647 ± 1.43e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

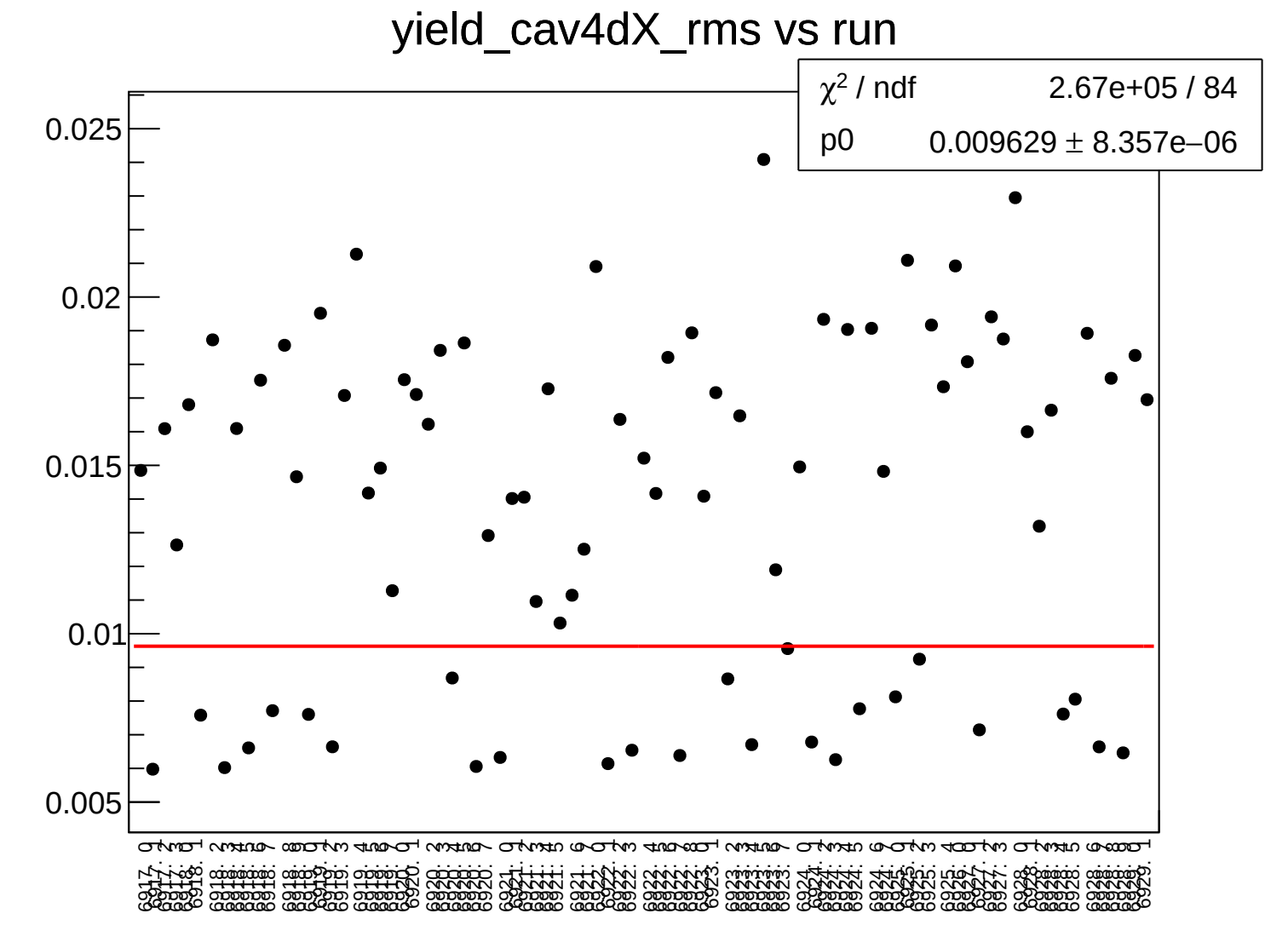

yield_cav4cY_mean vs run
χ² / ndf 1.086e+05 / 84
p0 −0.1207 ± 1.044e−06
−0.1198
−0.12
−0.1202
−0.1204
−0.1206
−0.1208
−0.121
−0.1212
−0.1214
−0.1216
−0.1218
pull
Entries 85
Mean −66.73
Std Dev 112.9
80
60
40
20
0
−20
−40
−60
−80
−100

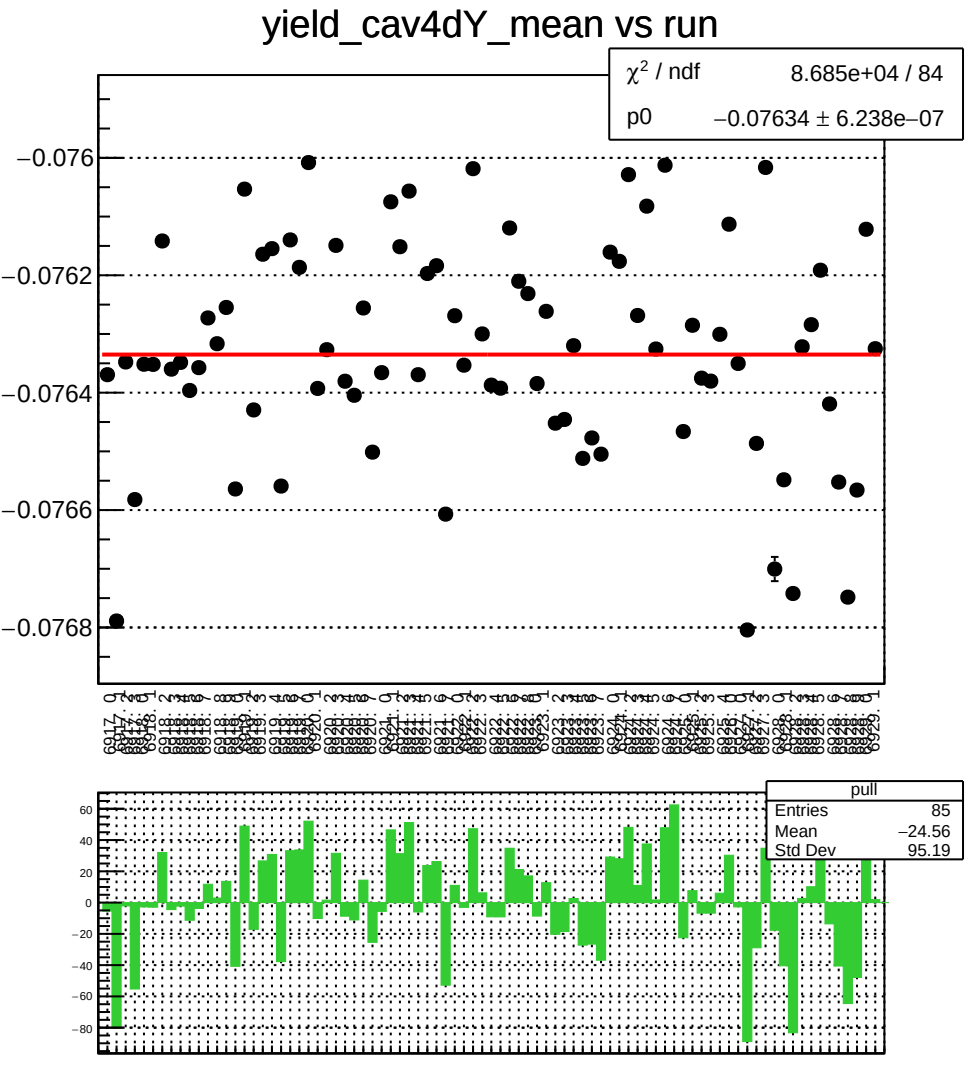

pull1D
Entries 85
Mean 1.396
Std Dev 4.471
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

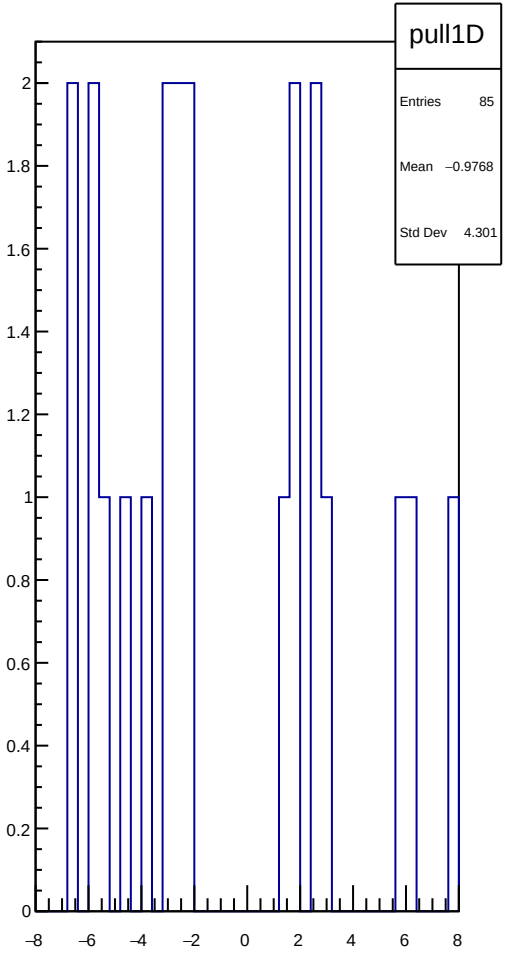

yield_cav4cY_rms vs run
χ² / ndf 2.285e+04 / 84
p0 0.0009253 ± 7.38e−07
0.003
0.0025
0.002
0.0015
0.001

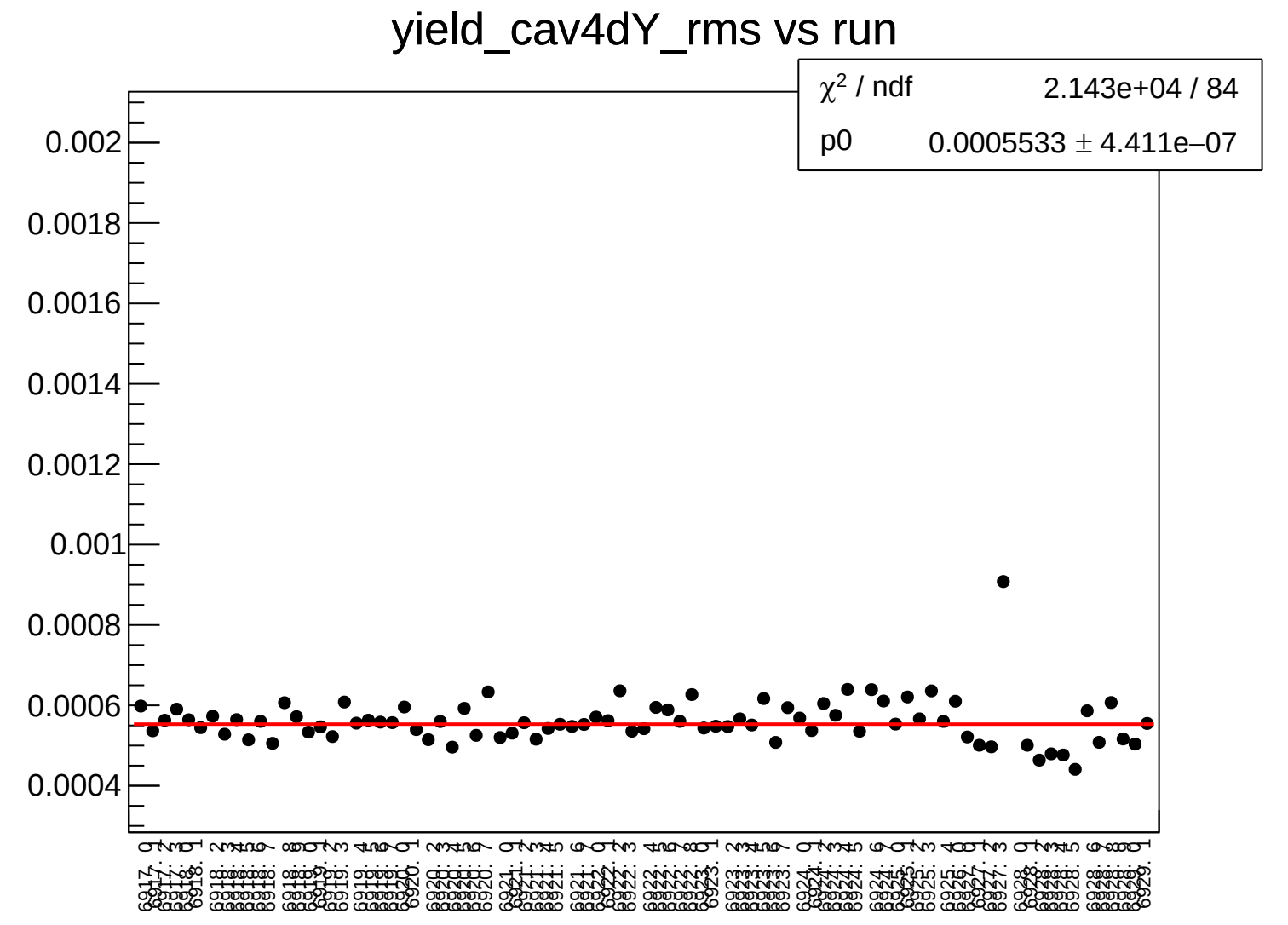

yield_cav4dX_mean vs run
χ² / ndf 2.059e+05 / 84
p0 0.05641± 1.182e−05
pull
Entries 85
Mean 51.8
Std Dev 30.24

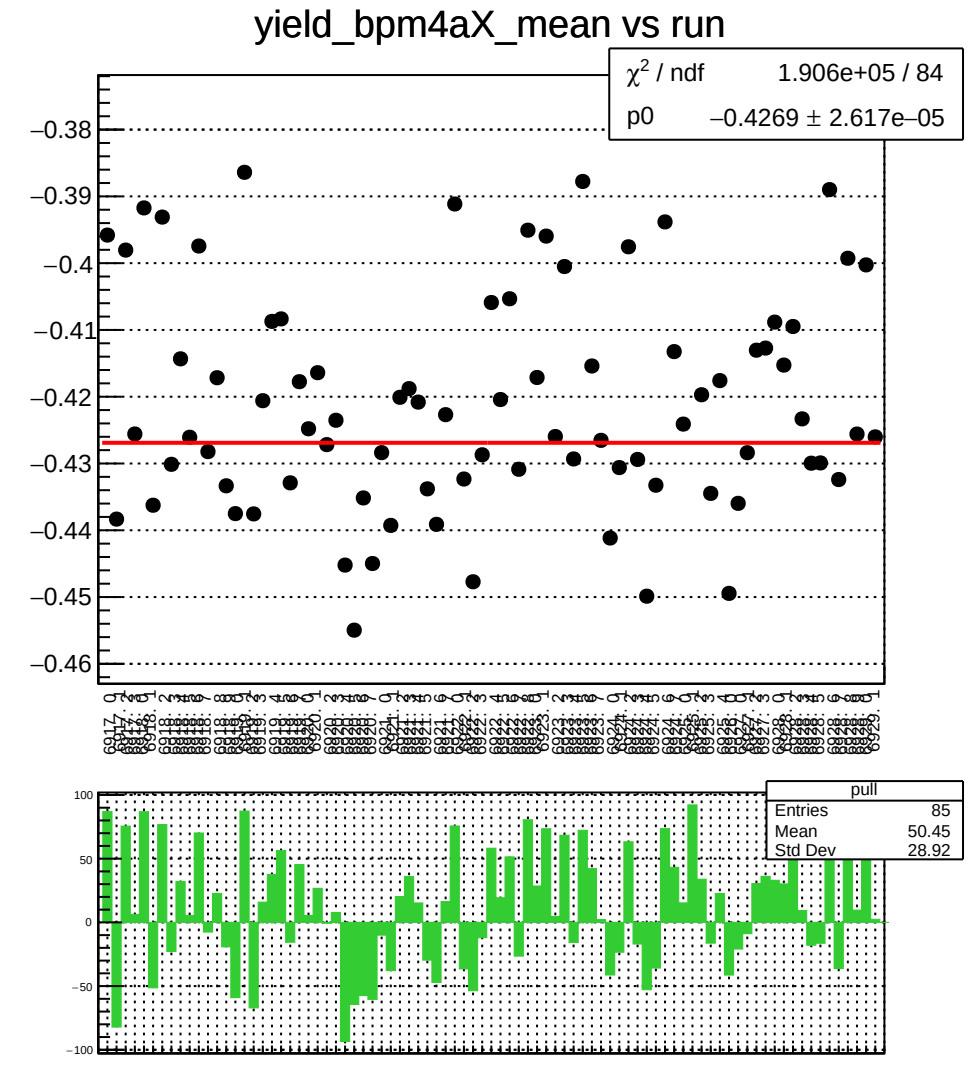

pull1D
Entries 85
Mean 1.585
Std Dev 3.146

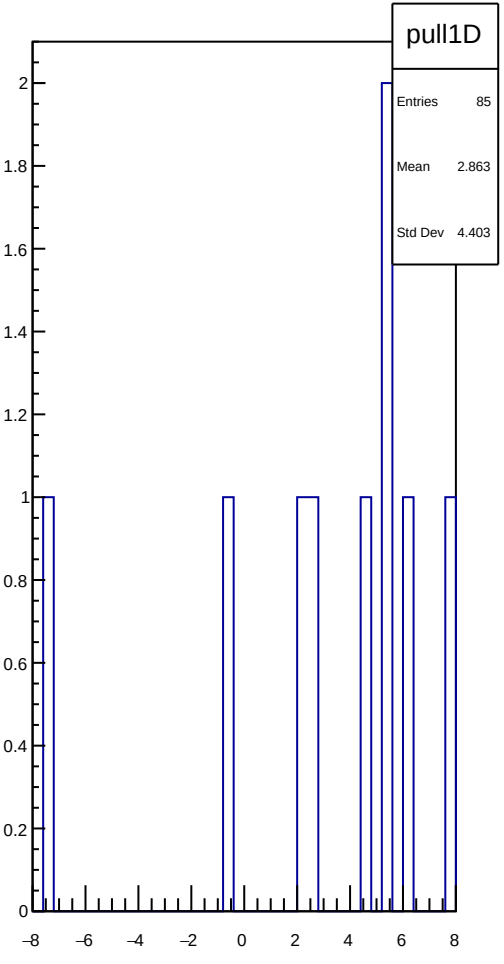

yield_cav4dX_rms vs run
χ² / ndf 2.67e+05 / 84
p0 0.009629 ± 8.357e−06
0.025
0.02
0.015
0.01
0.005

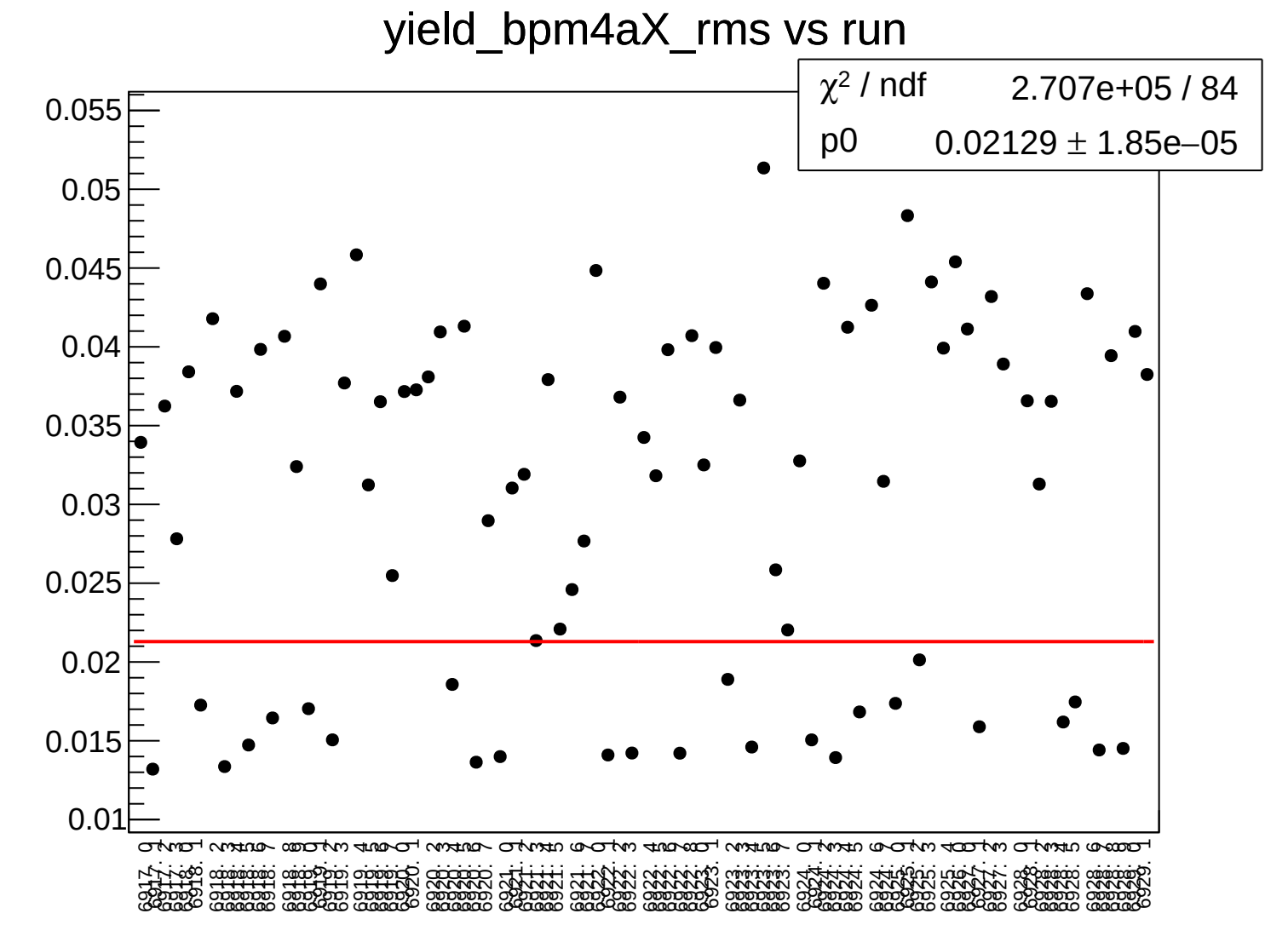

yield_cav4dY_mean vs run
χ² / ndf 8.685e+04 / 84
p0 −0.07634 ± 6.238e−07
−0.076
−0.0762
−0.0764
−0.0766
−0.0768
pull
Entries 85
Mean −24.56
Std Dev 95.19
60
40
20
0
−20
−40
−60
−80

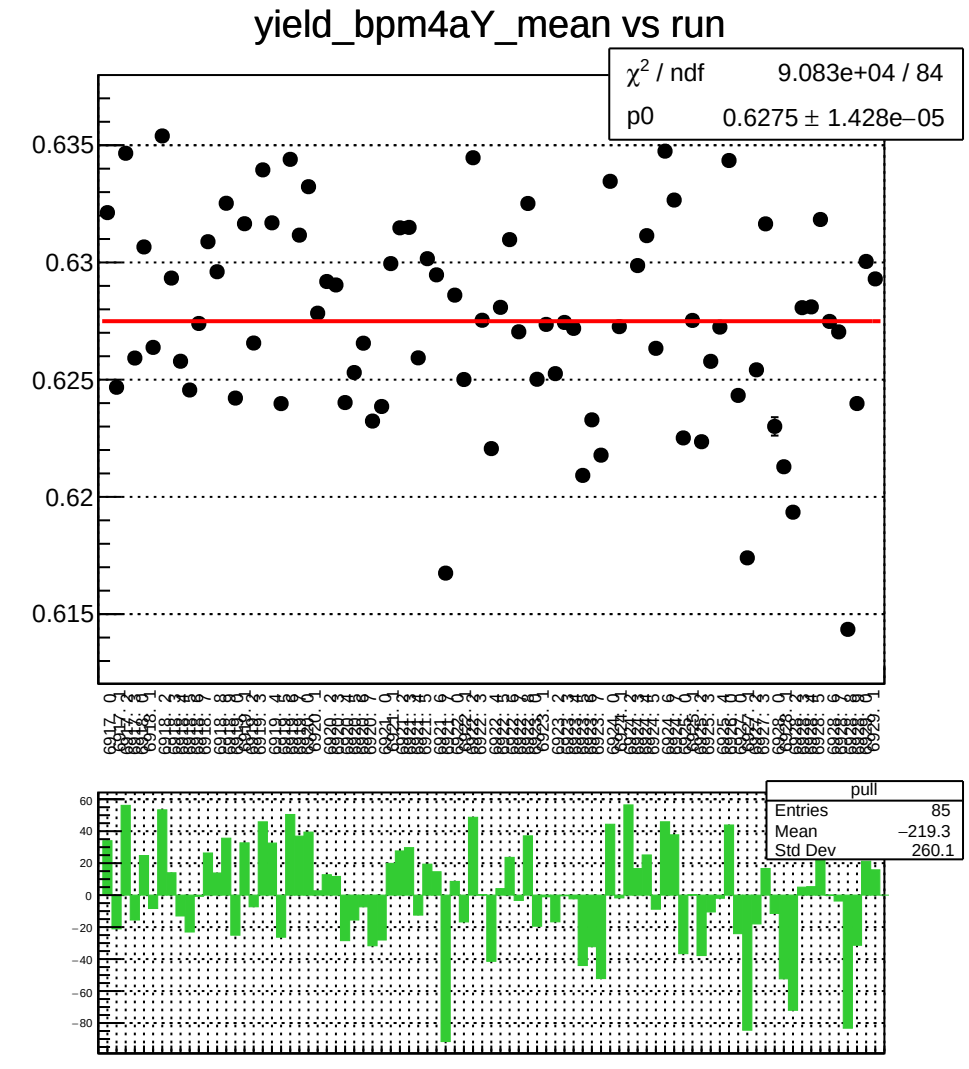

pull1D
Entries 85
Mean −0.9768
Std Dev 4.301
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

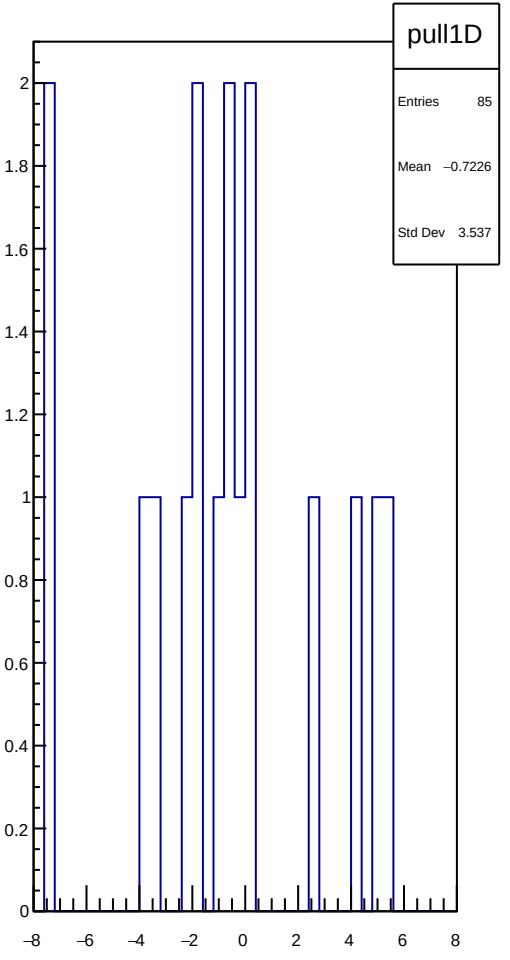

yield_cav4dY_rms vs run
χ² / ndf 2.143e+04 / 84
p0 0.0005533 ± 4.411e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

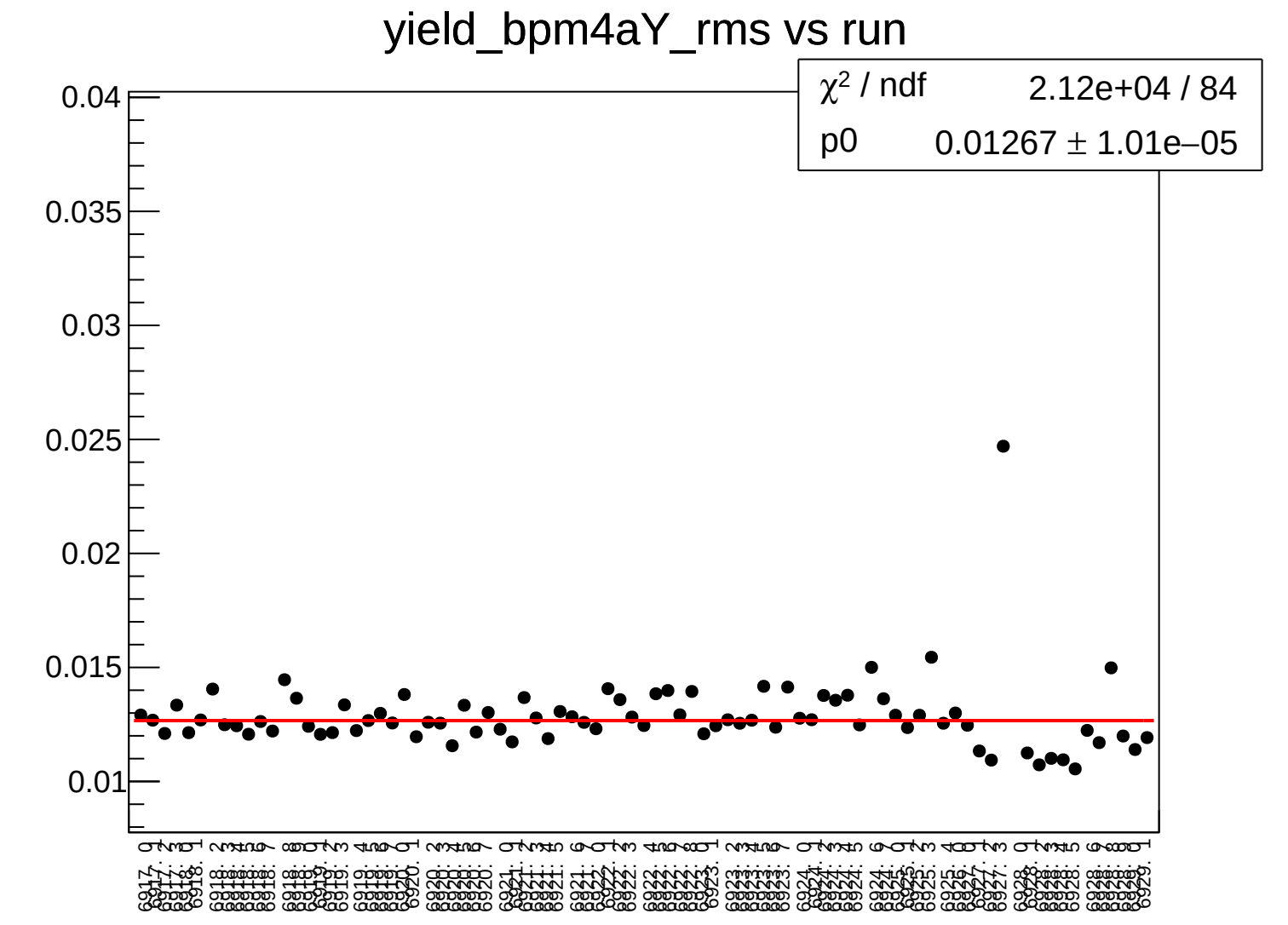

yield_bpm4aX_mean vs run
χ² / ndf 1.906e+05 / 84
p0 −0.4269 ± 2.617e−05
pull
Entries 85
Mean 50.45
Std Dev 28.92

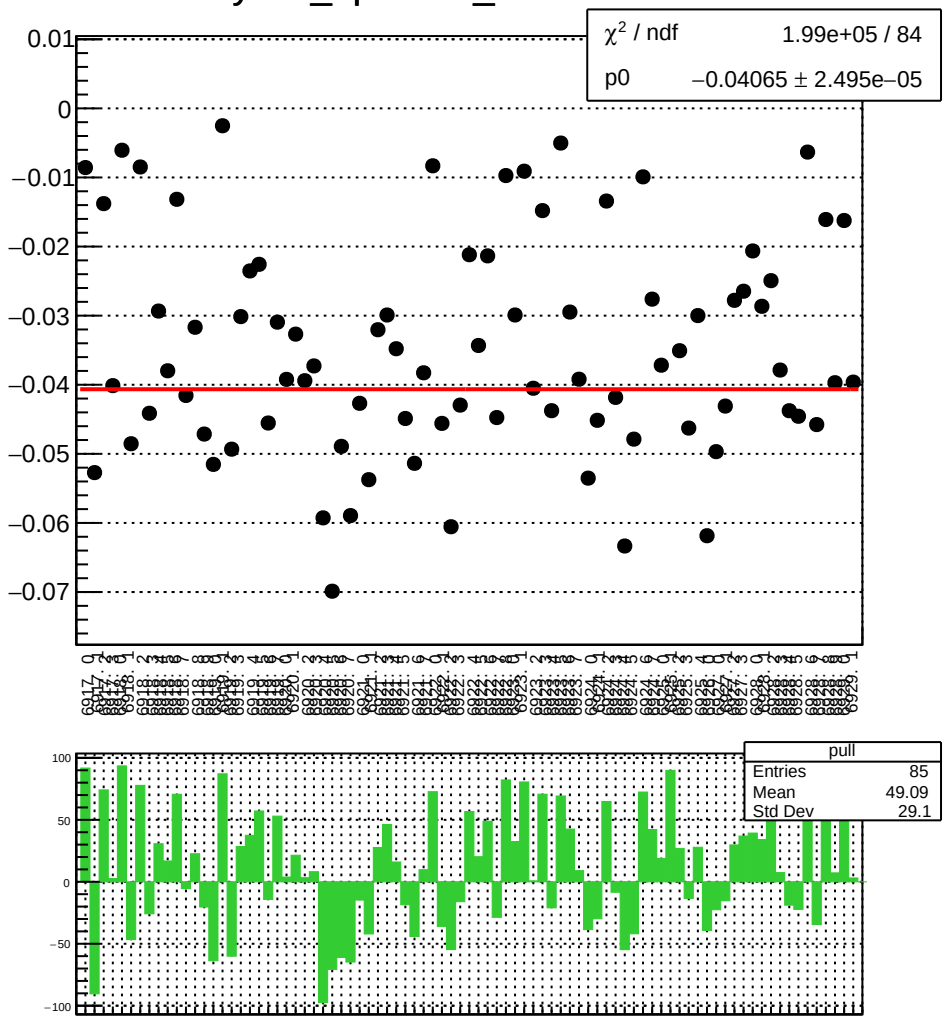

pull1D
Entries 85
Mean 2.863
Std Dev 4.403

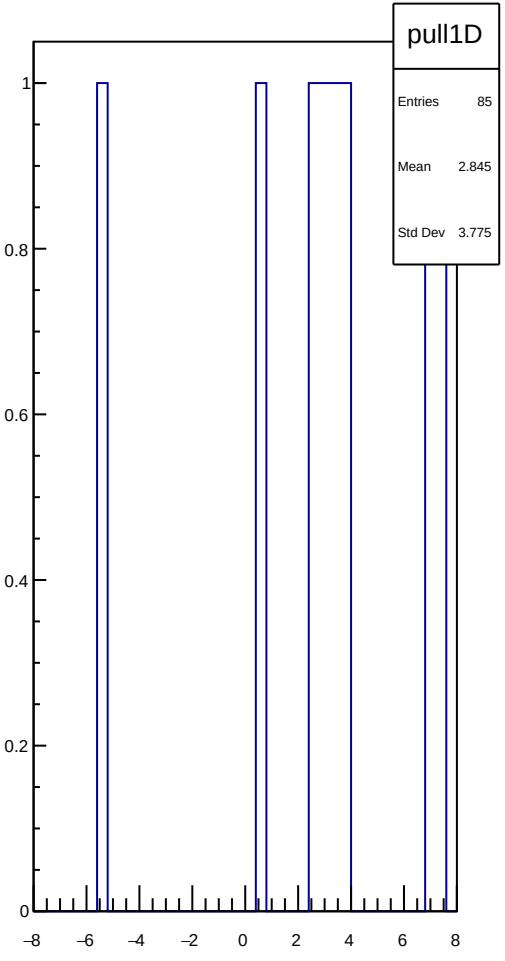

yield_bpm4aX_rms vs run
χ² / ndf 2.707e+05 / 84
p0 0.02129 ± 1.85e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

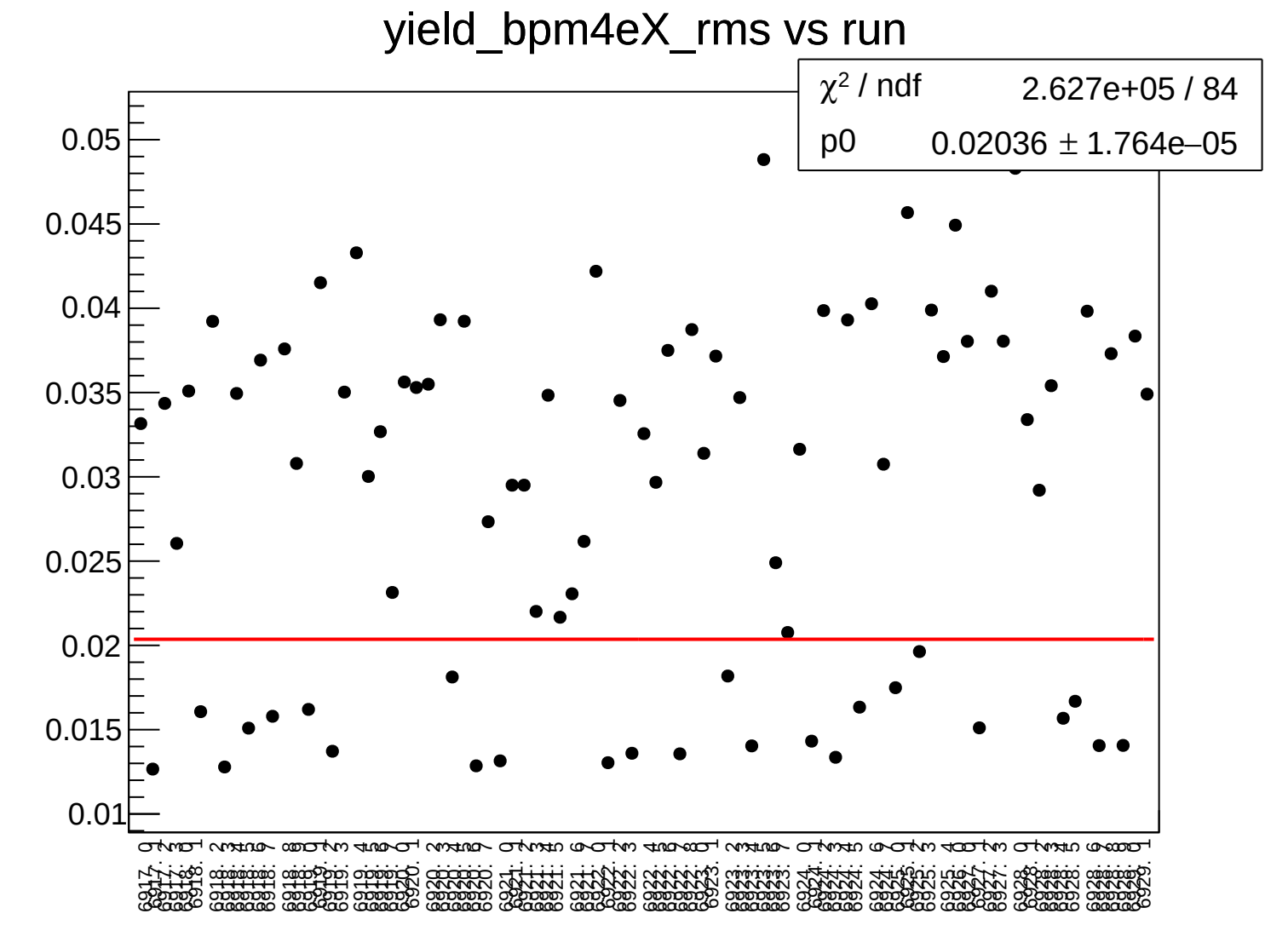

yield_bpm4aY_mean vs run
χ² / ndf 9.083e+04 / 84
p0 0.6275 ± 1.428e−05
0.635
0.63
0.625
0.62
0.615
pull
Entries 85
Mean −219.3
Std Dev 260.1
60
40
20
0
−20
−40
−60
−80

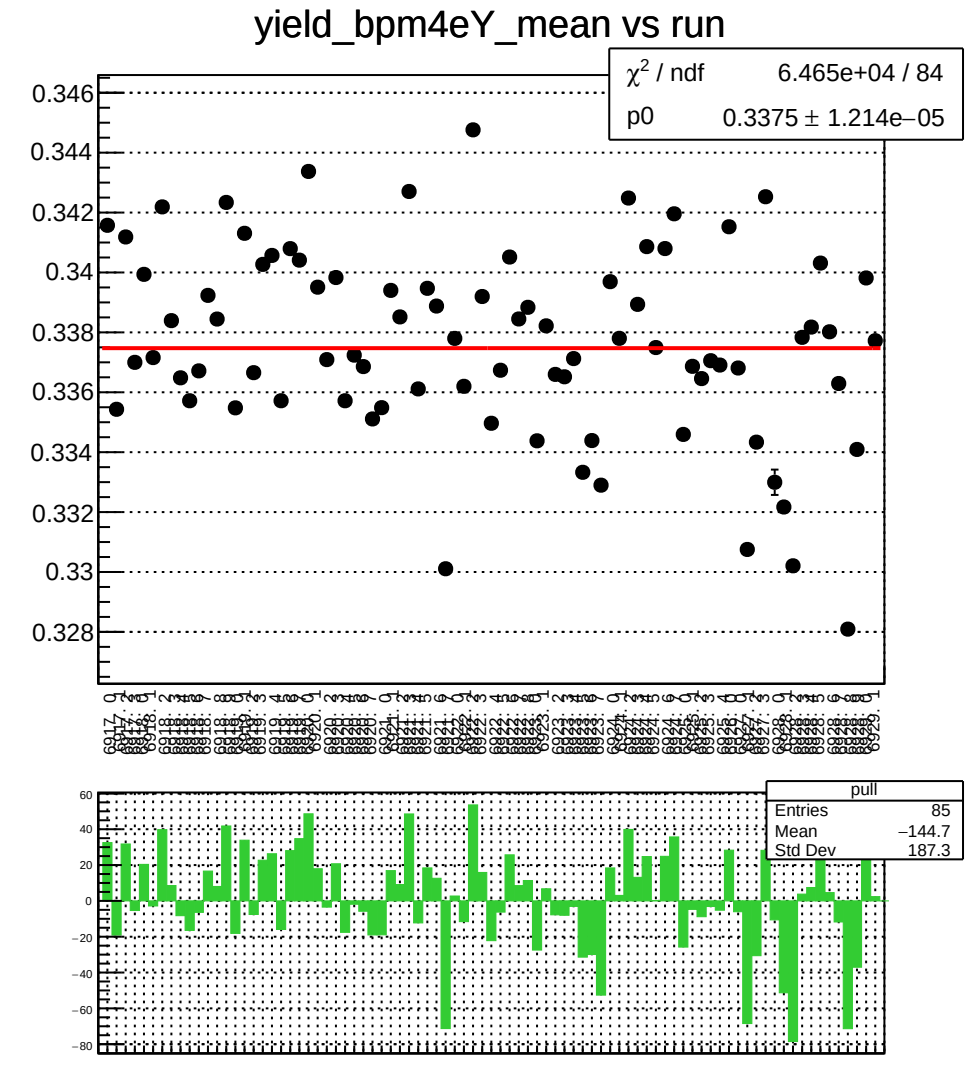

pull1D
Entries 85
Mean −0.7226
Std Dev 3.537
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

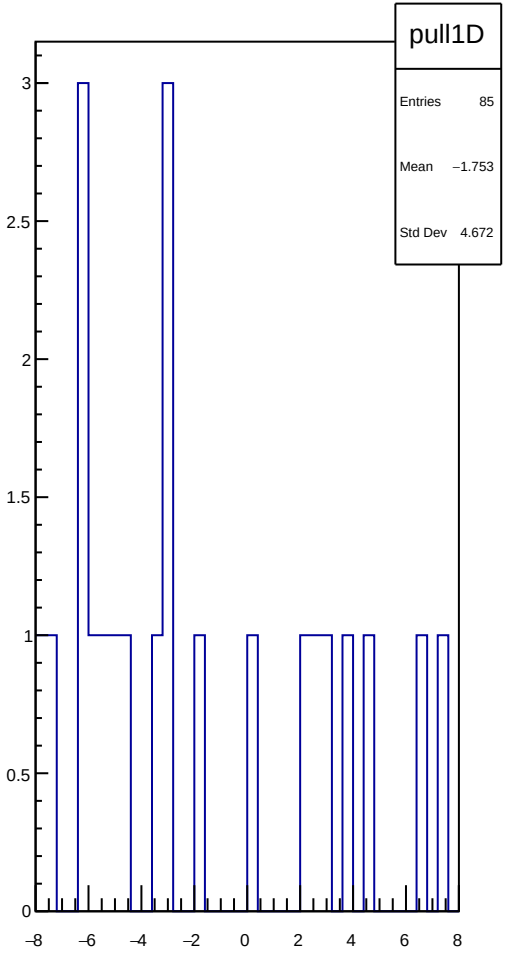

yield_bpm4aY_rms vs run
χ² / ndf 2.12e+04 / 84
p0 0.01267 ± 1.01e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

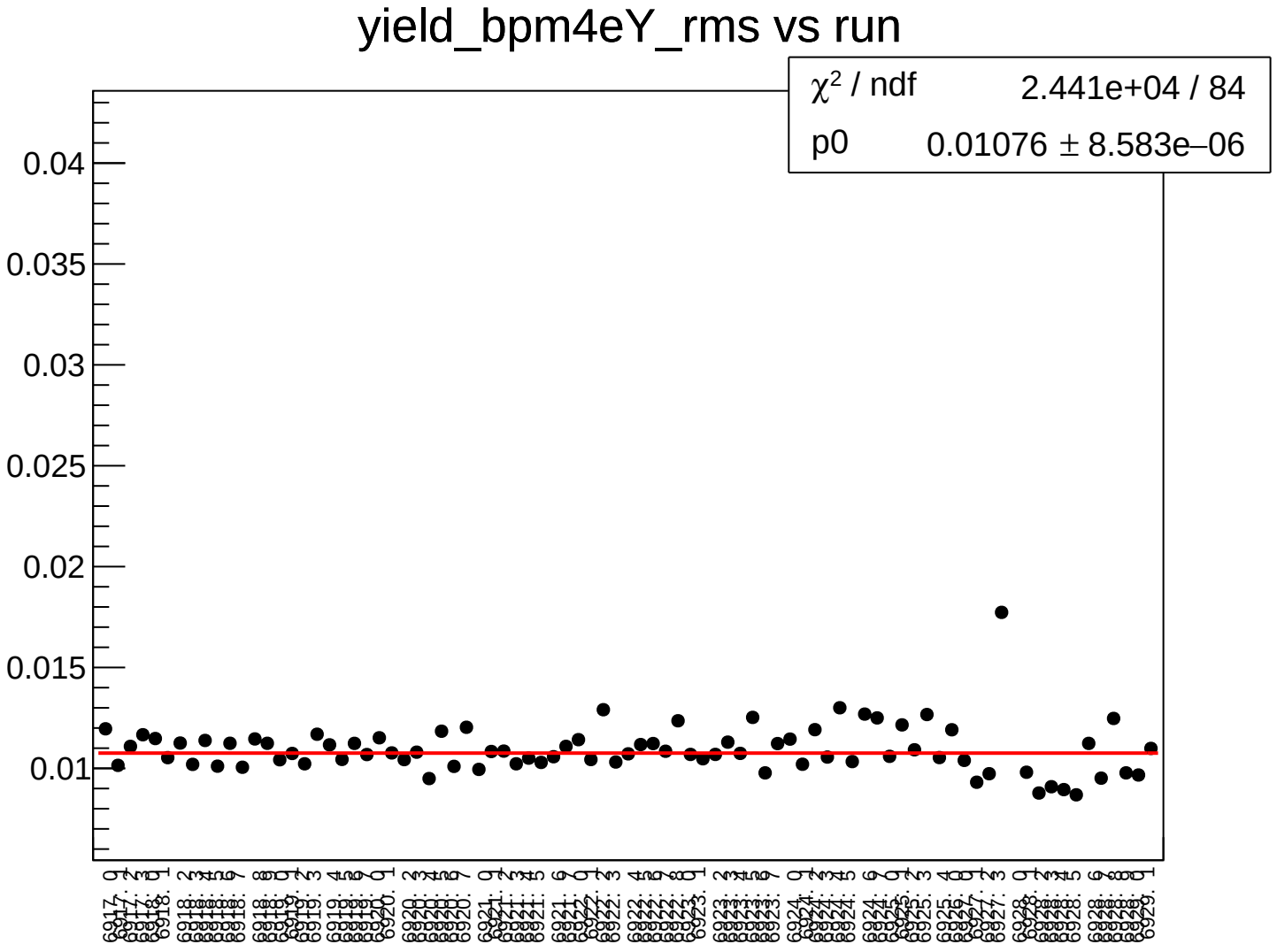

yield_bpm4eX_mean vs run
χ² / ndf 1.99e+05 / 84
p0 −0.04065 ± 2.495e−05
pull
Entries 85
Mean 49.09
Std Dev 29.1

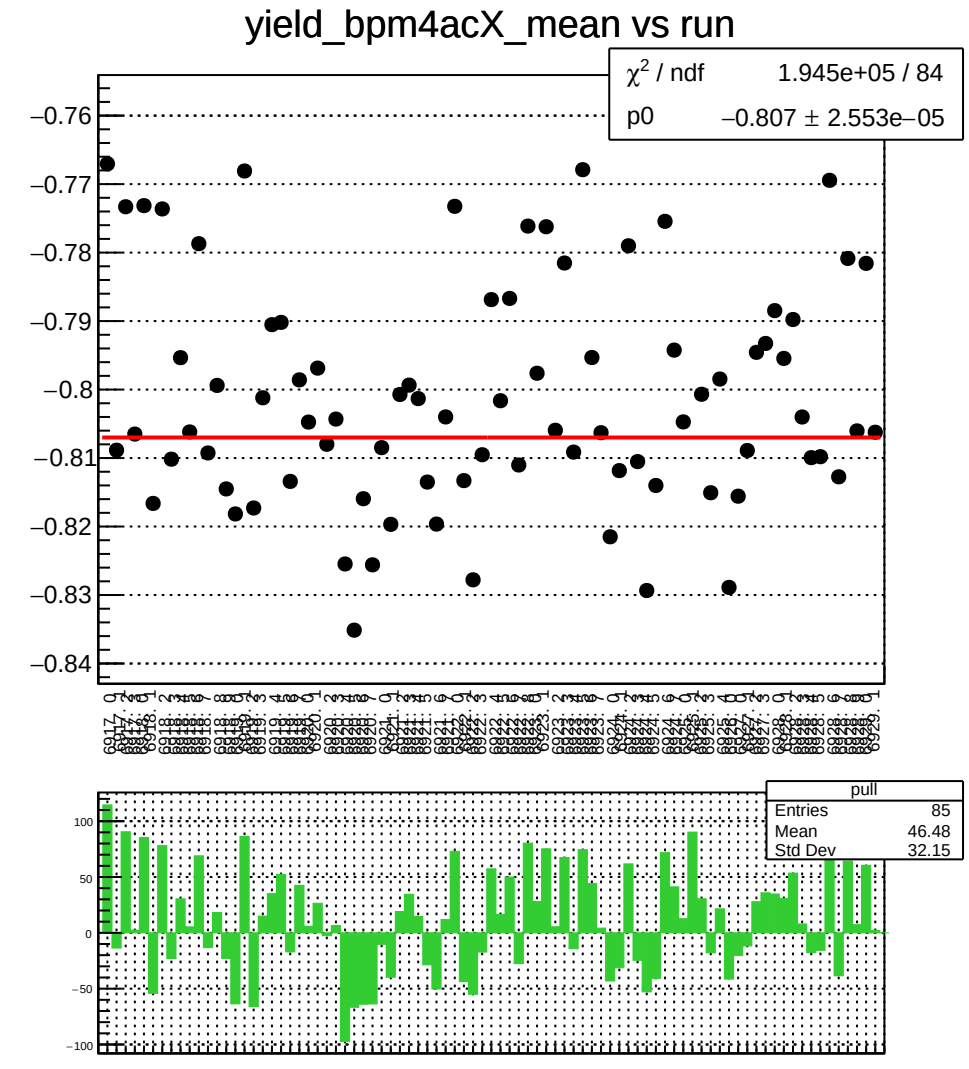

pull1D
Entries 85
Mean 2.845
Std Dev 3.775

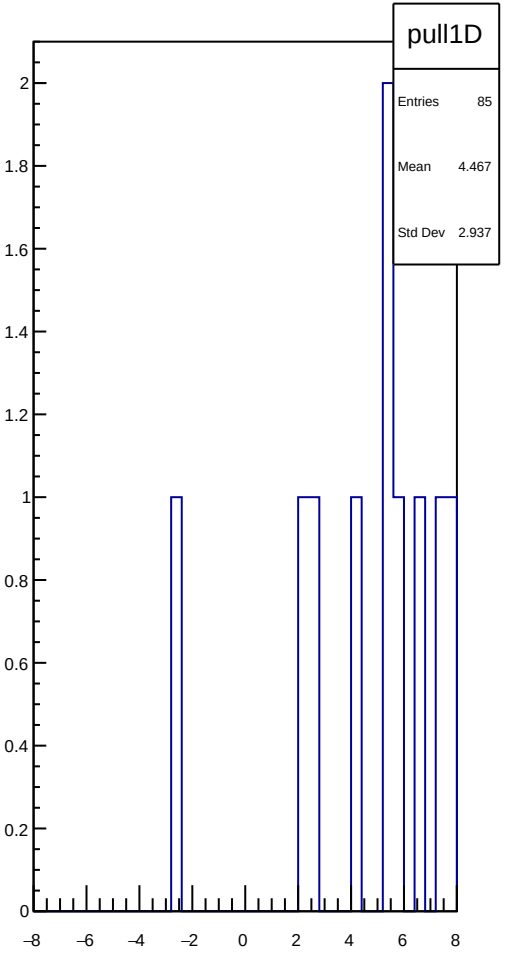

yield_bpm4eX_rms vs run
χ² / ndf 2.627e+05 / 84
p0 0.02036 ± 1.764e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

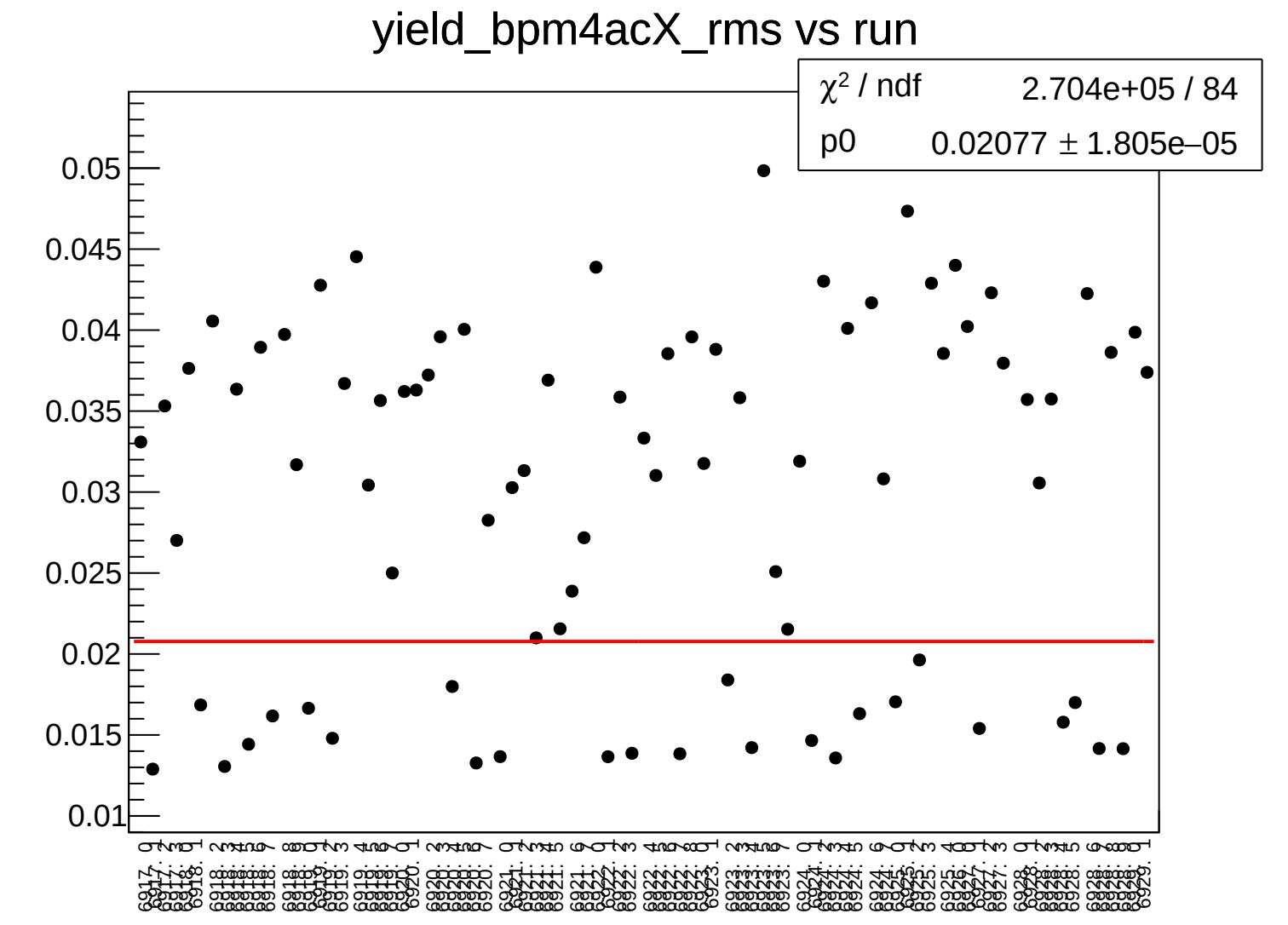

yield_bpm4eY_mean vs run
χ² / ndf 6.465e+04 / 84
p0 0.3375 ± 1.214e−05
0.346
0.344
0.342
0.34
0.338
0.336
0.334
0.332
0.33
0.328
pull
Entries 85
Mean −144.7
Std Dev 187.3
60
40
20
0
−20
−40
−60
−80

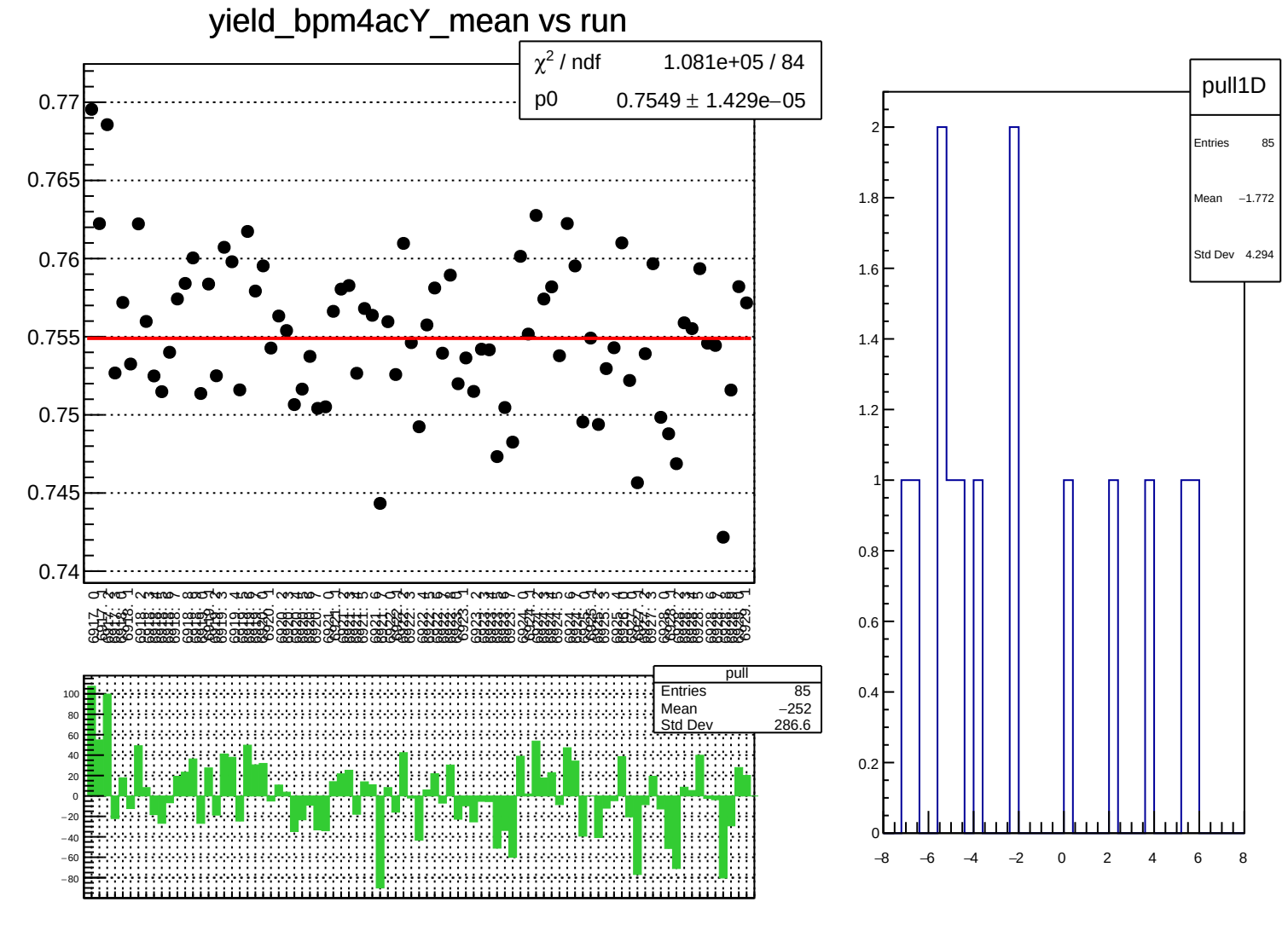

pull1D
Entries 85
Mean −1.753
Std Dev 4.672
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

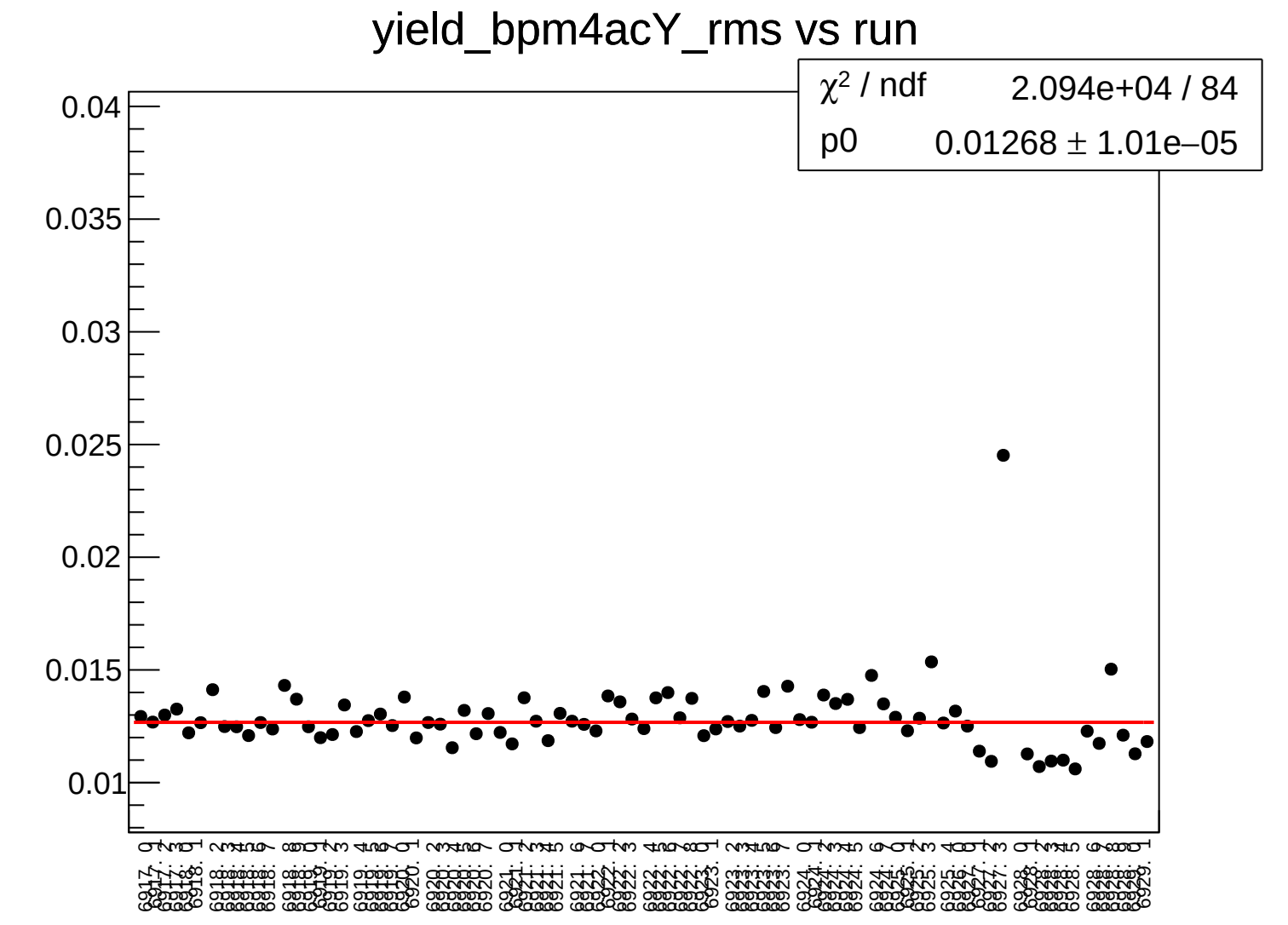

yield_bpm4eY_rms vs run
χ² / ndf 2.441e+04 / 84
p0 0.01076 ± 8.583e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

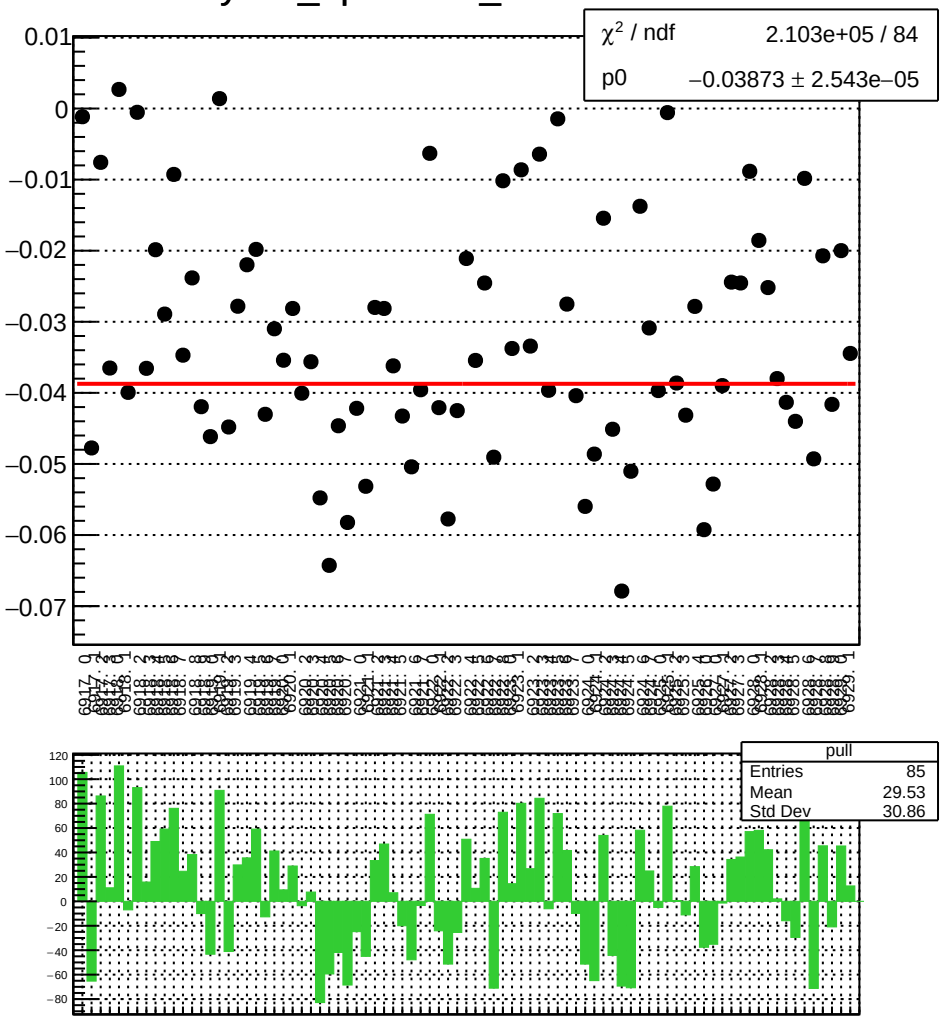

yield_bpm4acX_mean vs run
χ² / ndf 1.945e+05 / 84
p0 −0.807 ± 2.553e−05
−0.76
−0.77
−0.78
−0.79
−0.8
−0.81
−0.82
−0.83
−0.84
pull
Entries 85
Mean 46.48
Std Dev 32.15
100
50
0
−50
−100

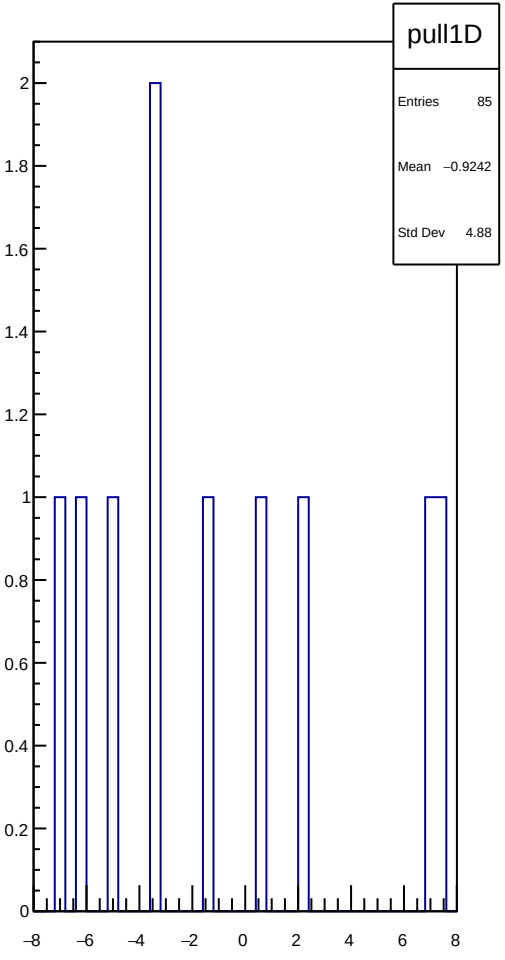

pull1D
Entries 85
Mean 4.467
Std Dev 2.937
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

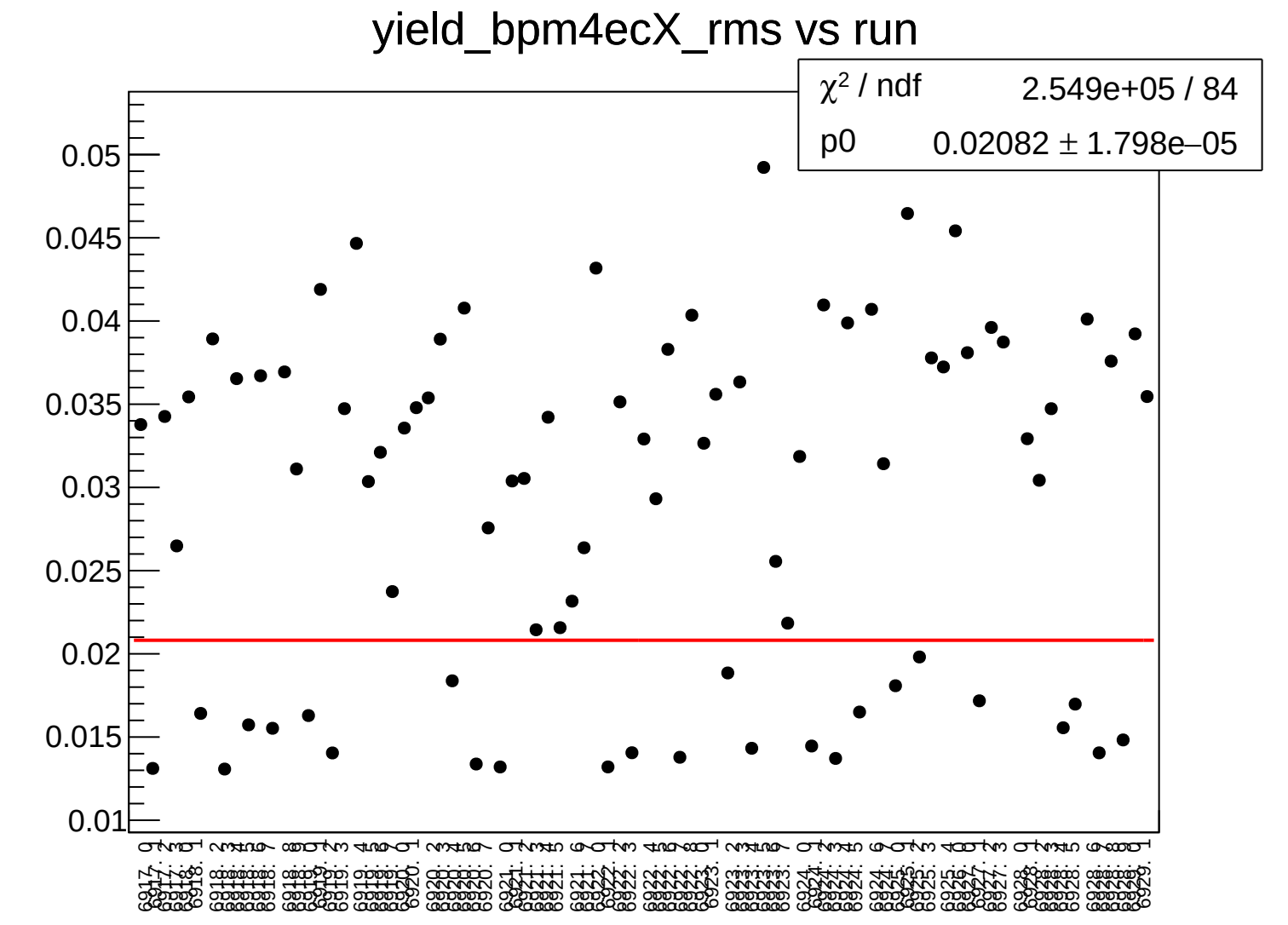

yield_bpm4acX_rms vs run
χ² / ndf 2.704e+05 / 84
p0 0.02077 ± 1.805e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

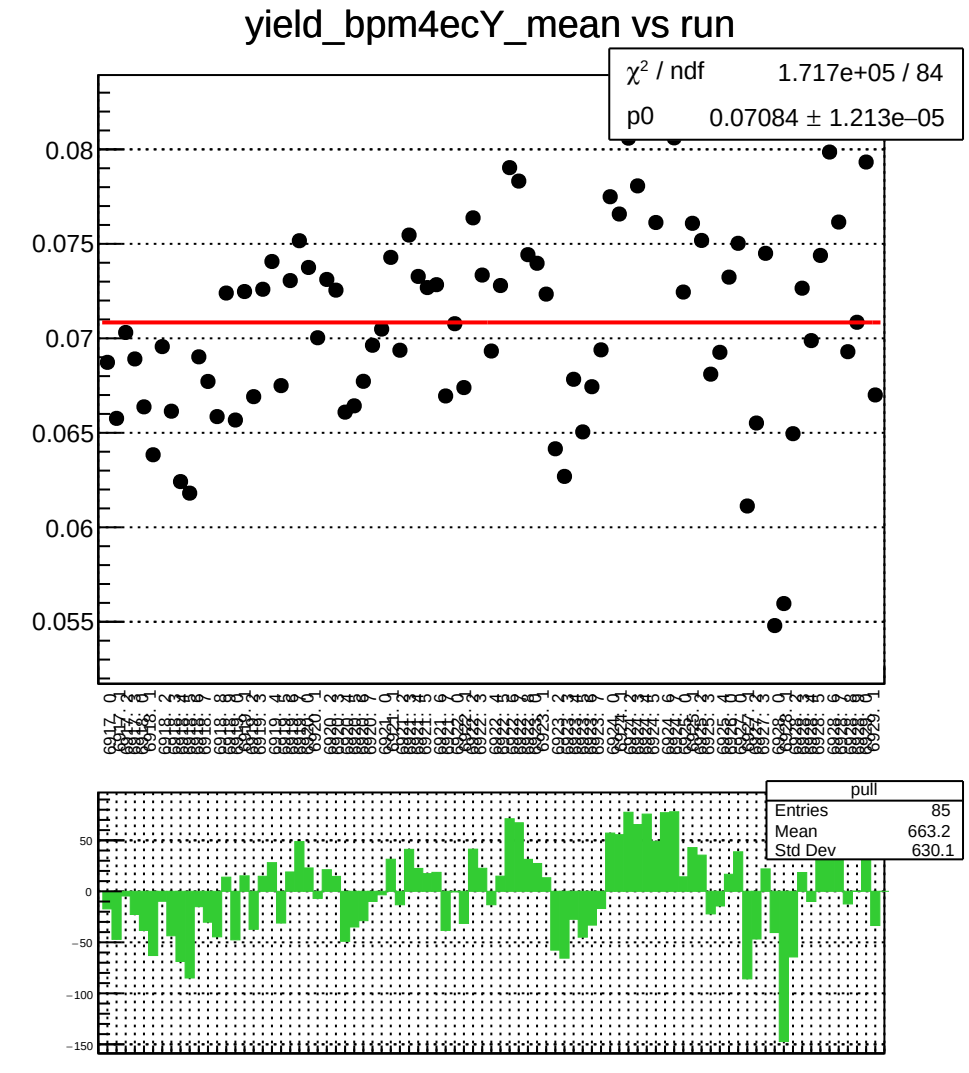

yield_bpm4acY_mean vs run
χ² / ndf 1.081e+05 / 84
p0 0.7549 ± 1.429e−05
0.77
0.765
0.76
0.755
0.75
0.745
0.74
pull
Entries 85
Mean −252
Std Dev 286.6
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 85
Mean −1.772
Std Dev 4.294
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

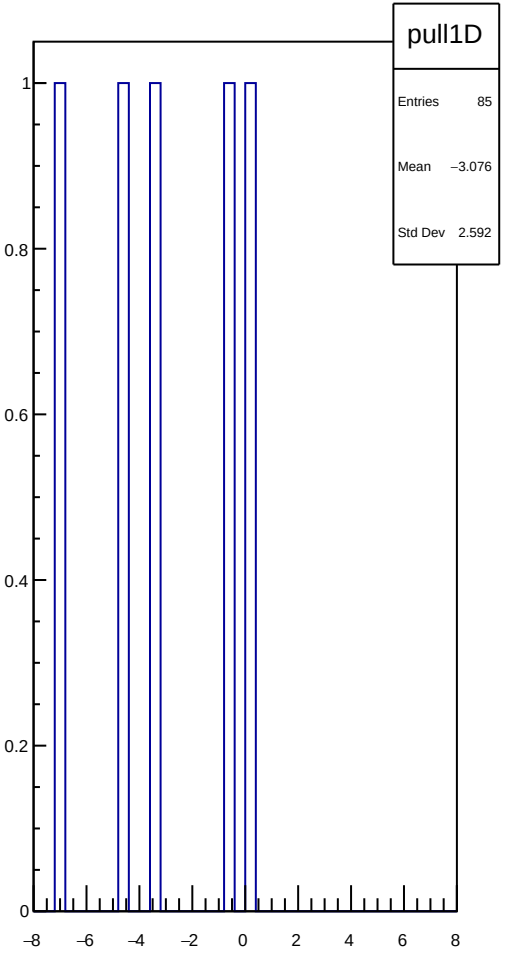

yield_bpm4acY_rms vs run
χ² / ndf 2.094e+04 / 84
p0 0.01268 ± 1.01e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

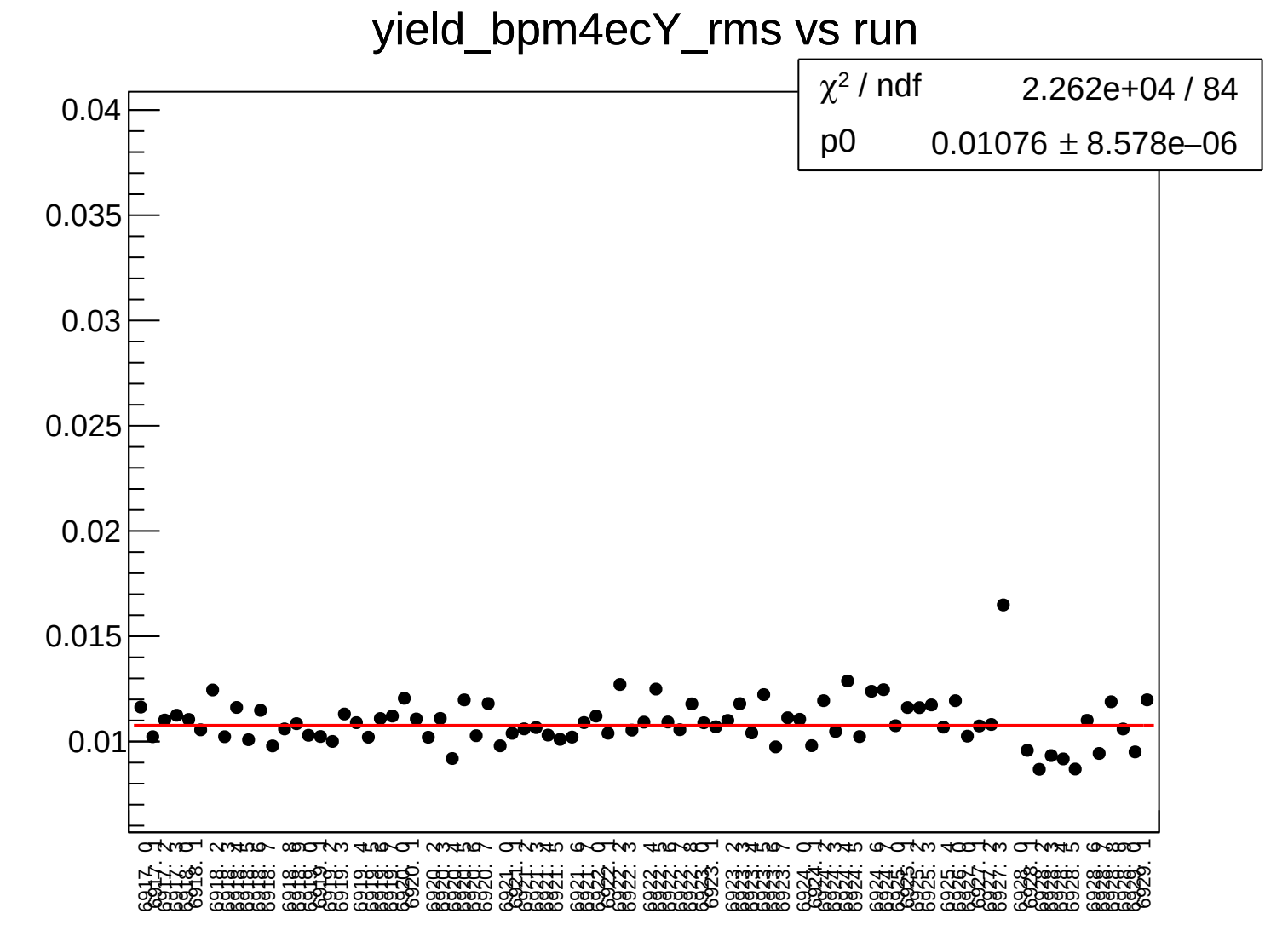

yield_bpm4ecX_mean vs run
χ² / ndf 2.103e+05 / 84
p0 −0.03873 ± 2.543e−05
pull
Entries 85
Mean 29.53
Std Dev 30.86

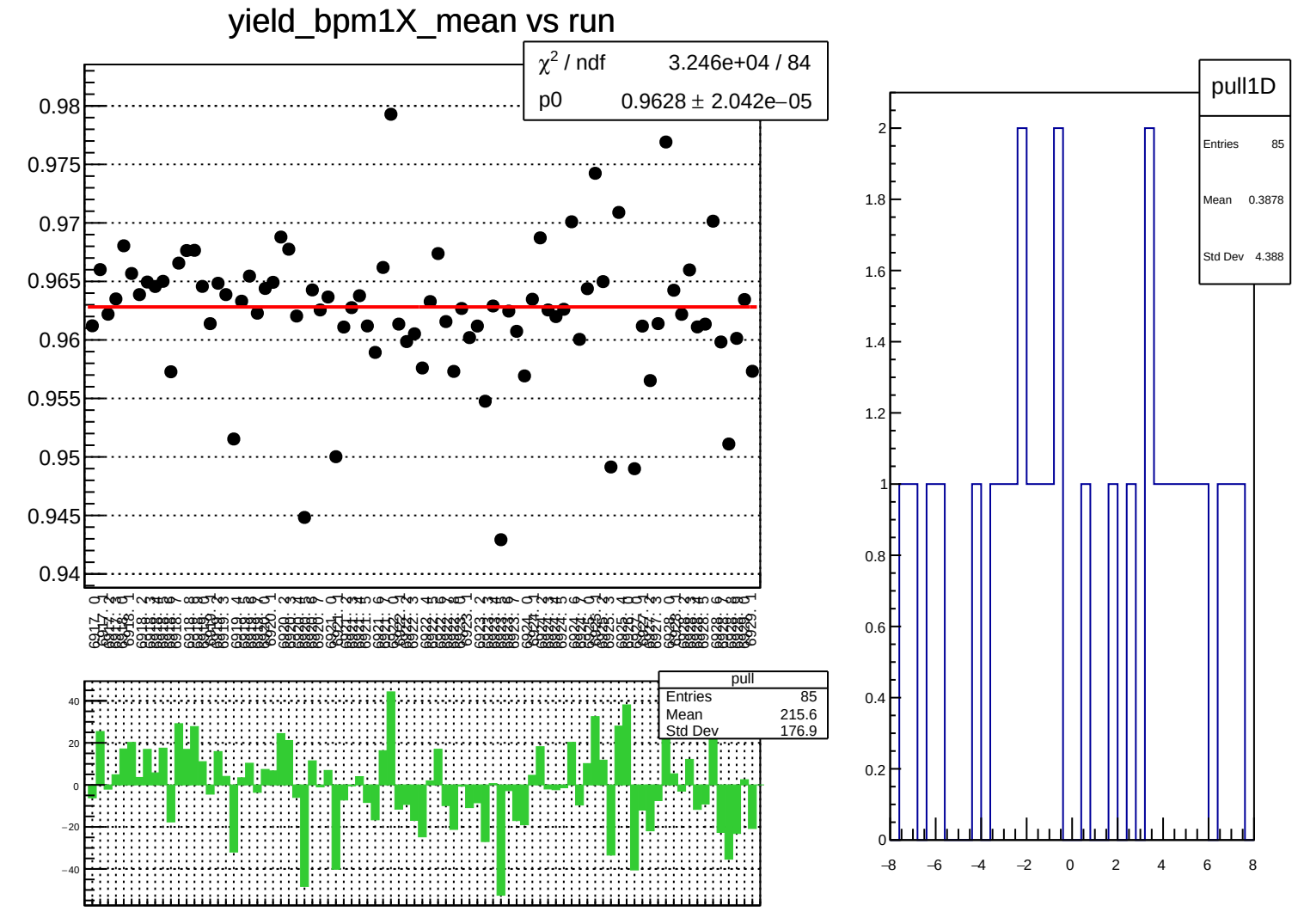

pull1D
Entries 85
Mean −0.9242
Std Dev 4.88

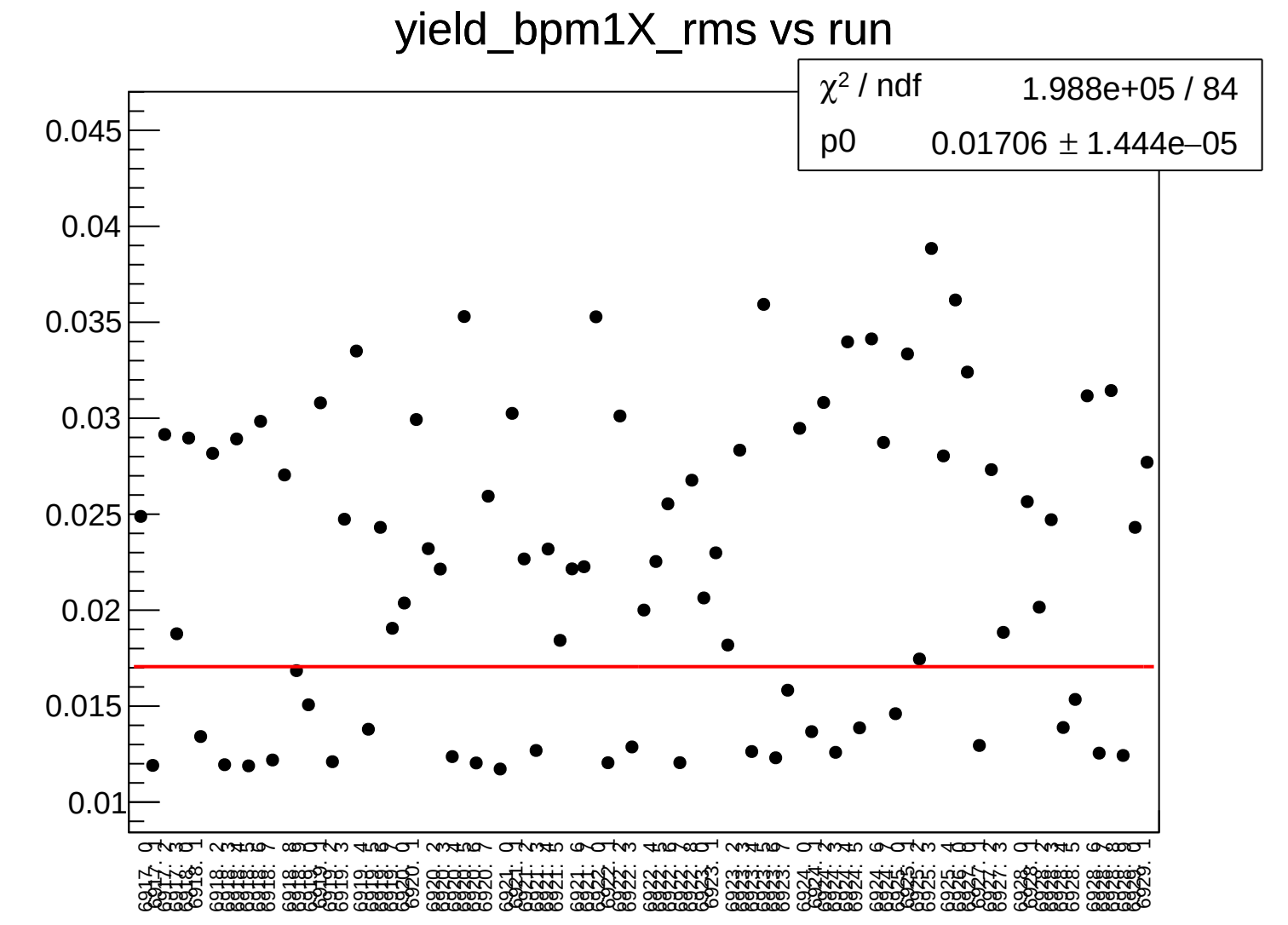

yield_bpm4ecX_rms vs run
χ² / ndf 2.549e+05 / 84
p0 0.02082 ± 1.798e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

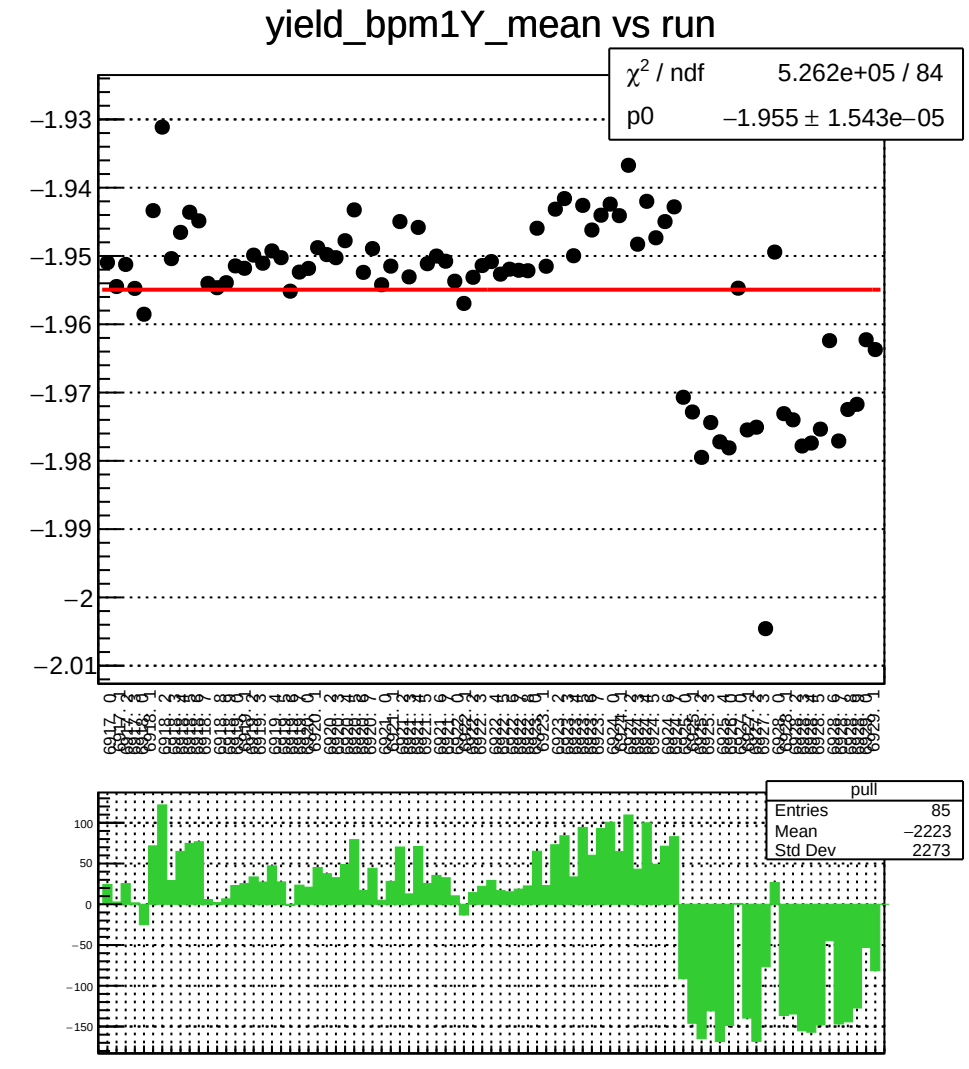

yield_bpm4ecY_mean vs run
χ² / ndf 1.717e+05 / 84
p0 0.07084 ± 1.213e−05
0.08
0.075
0.07
0.065
0.06
0.055
pull
Entries 85
Mean 663.2
Std Dev 630.1
50
0
−50
−100
−150

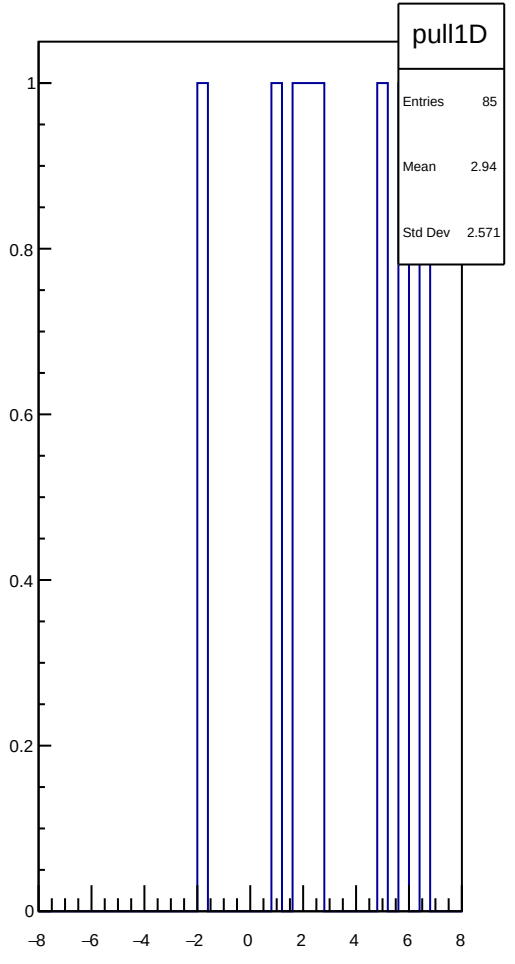

pull1D
Entries 85
Mean −3.076
Std Dev 2.592
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

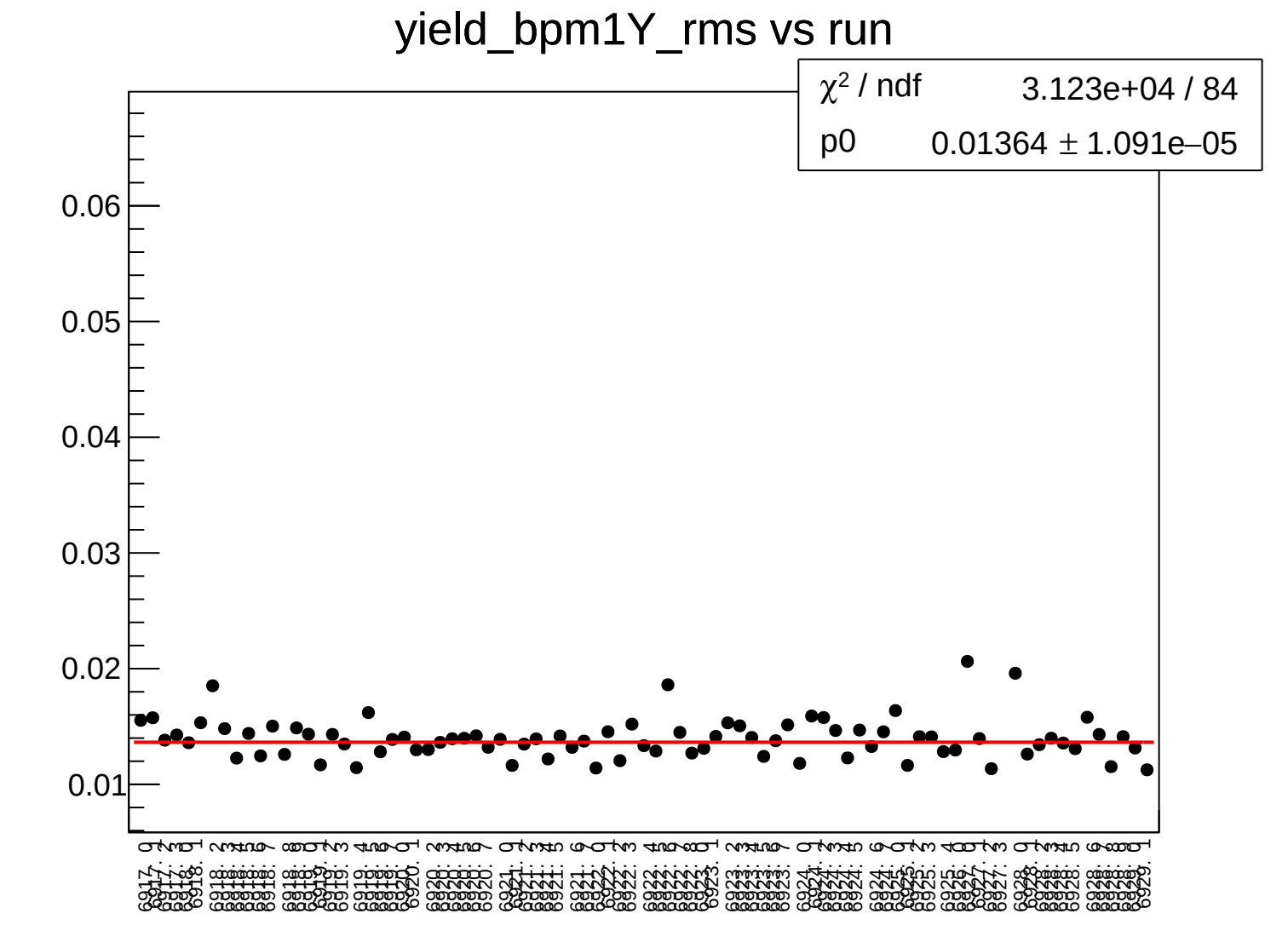

yield_bpm4ecY_rms vs run
χ² / ndf 2.262e+04 / 84
p0 0.01076 ± 8.578e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

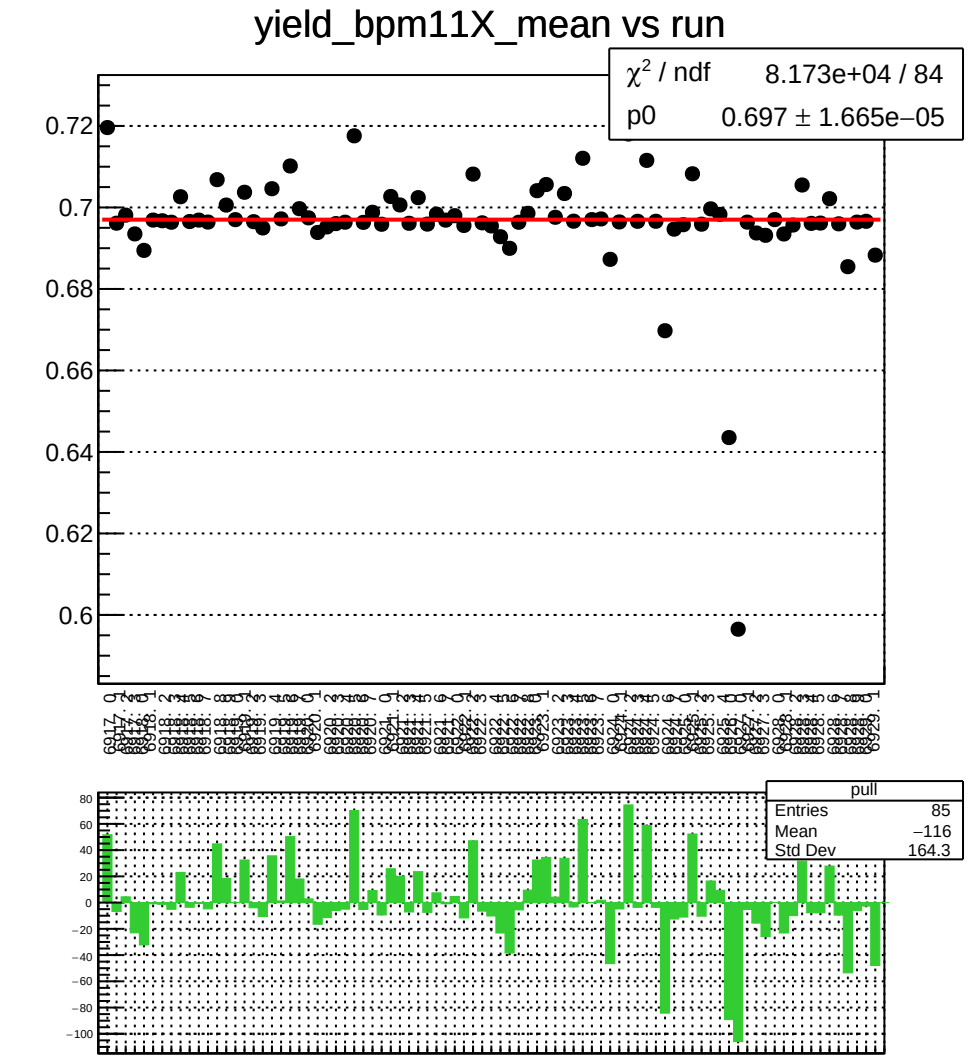

yield_bpm1X_mean vs run
χ² / ndf 3.246e+04 / 84
p0 0.9628 ± 2.042e−05
0.98
0.975
0.97
0.965
0.96
0.955
0.95
0.945
0.94
pull
Entries 85
Mean 215.6
Std Dev 176.9
40
20
0
−20
−40
pull1D
Entries 85
Mean 0.3878
Std Dev 4.388
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

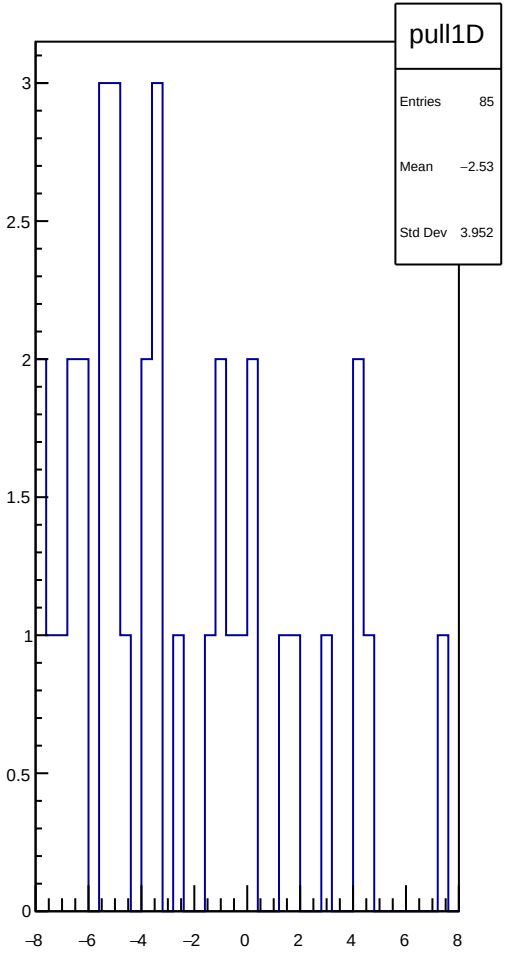

yield_bpm1X_rms vs run
χ² / ndf 1.988e+05 / 84
p0 0.01706 ± 1.444e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

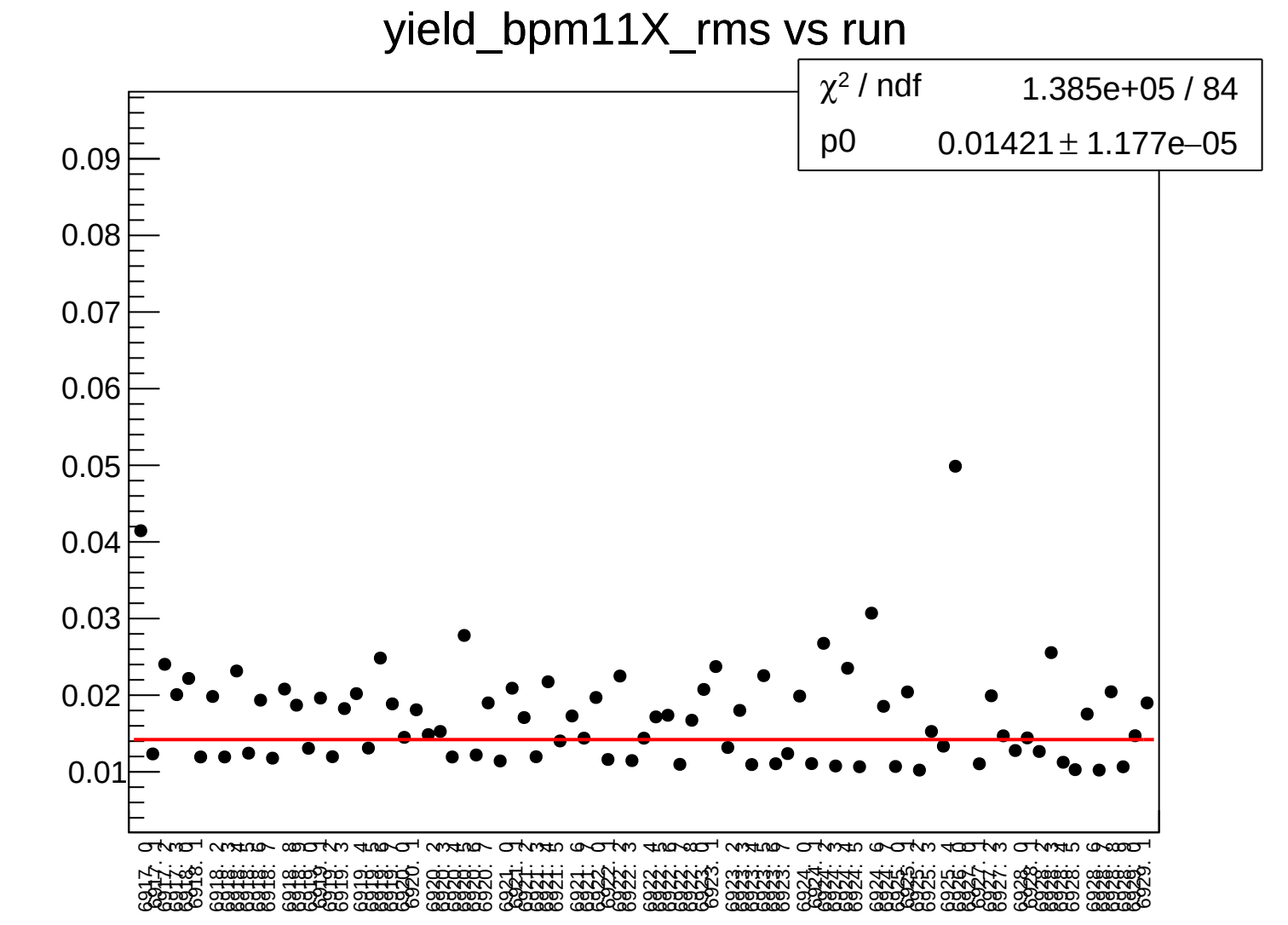

yield_bpm1Y_mean vs run
χ² / ndf 5.262e+05 / 84
p0 −1.955 ± 1.543e−05
−1.93
−1.94
−1.95
−1.96
−1.97
−1.98
−1.99
−2
−2.01
pull
Entries 85
Mean −2223
Std Dev 2273
100
50
0
−50
−100
−150

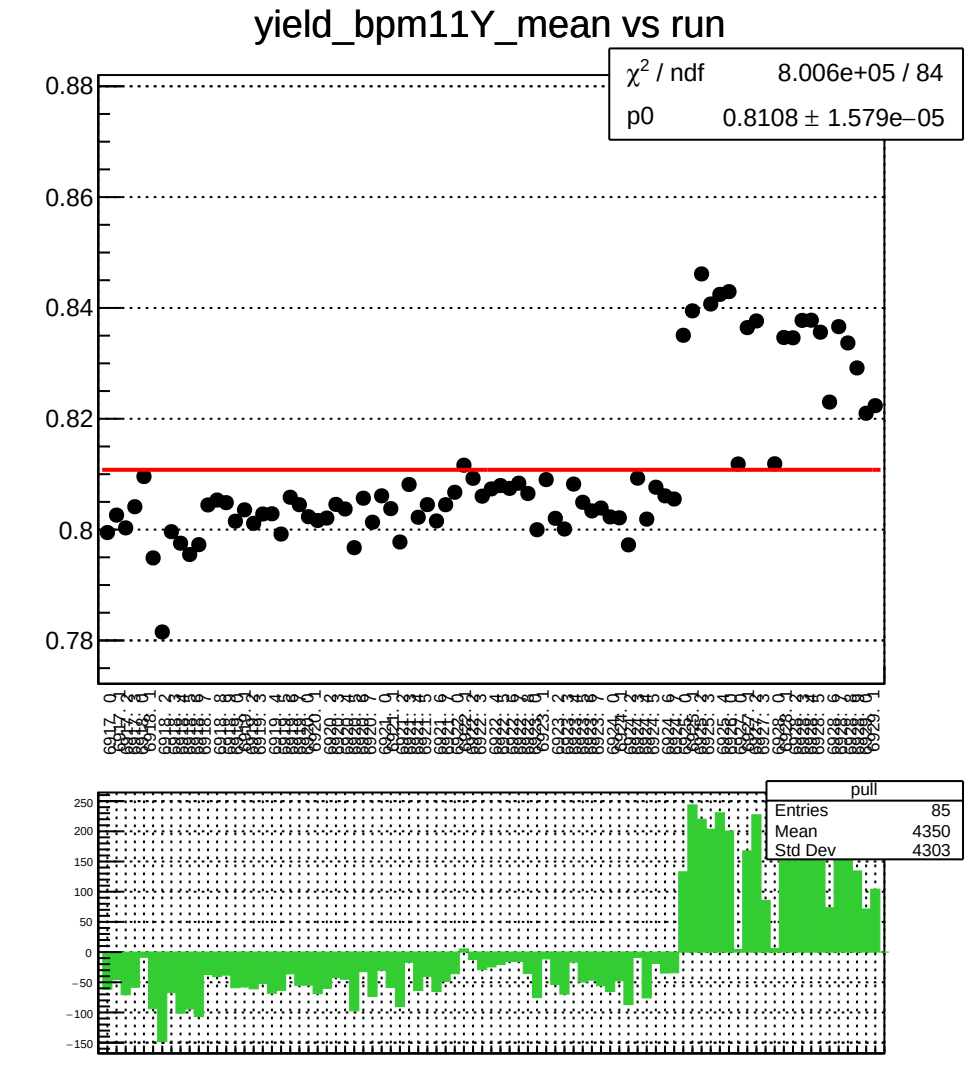

pull1D
Entries 85
Mean 2.94
Std Dev 2.571
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

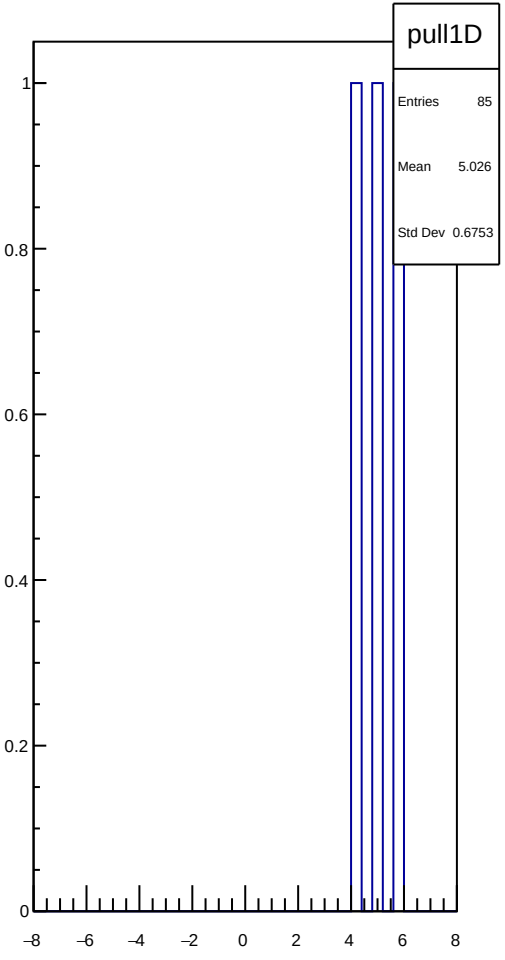

yield_bpm1Y_rms vs run
χ² / ndf 3.123e+04 / 84
p0 0.01364 ± 1.091e−05
0.06
0.05
0.04
0.03
0.02
0.01

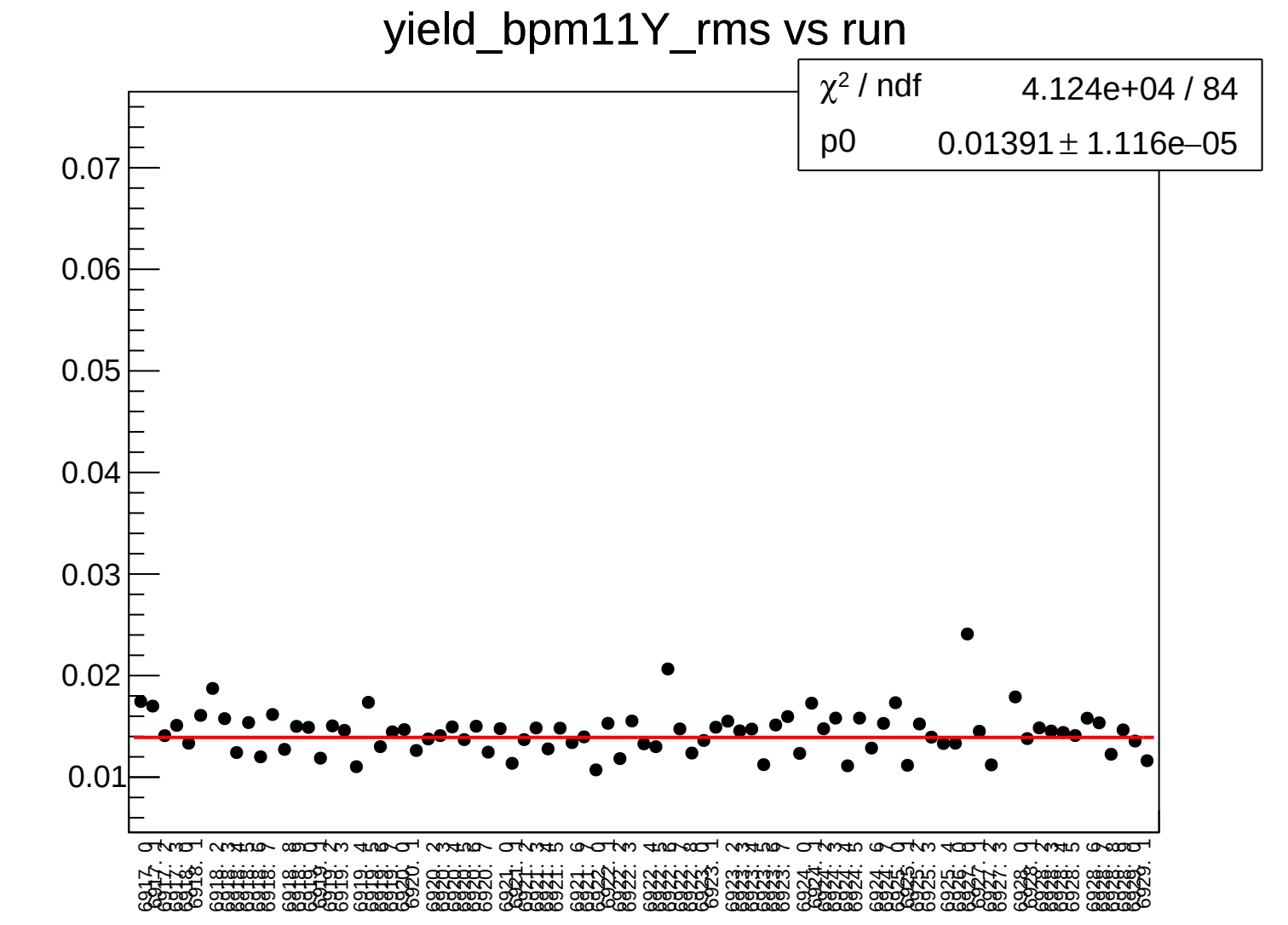

yield_bpm11X_mean vs run
χ² / ndf 8.173e+04 / 84
p0 0.697 ± 1.665e−05
0.72
0.7
0.68
0.66
0.64
0.62
0.6
pull
Entries 85
Mean −116
Std Dev 164.3
80
60
40
20
0
−20
−40
−60
−80
−100

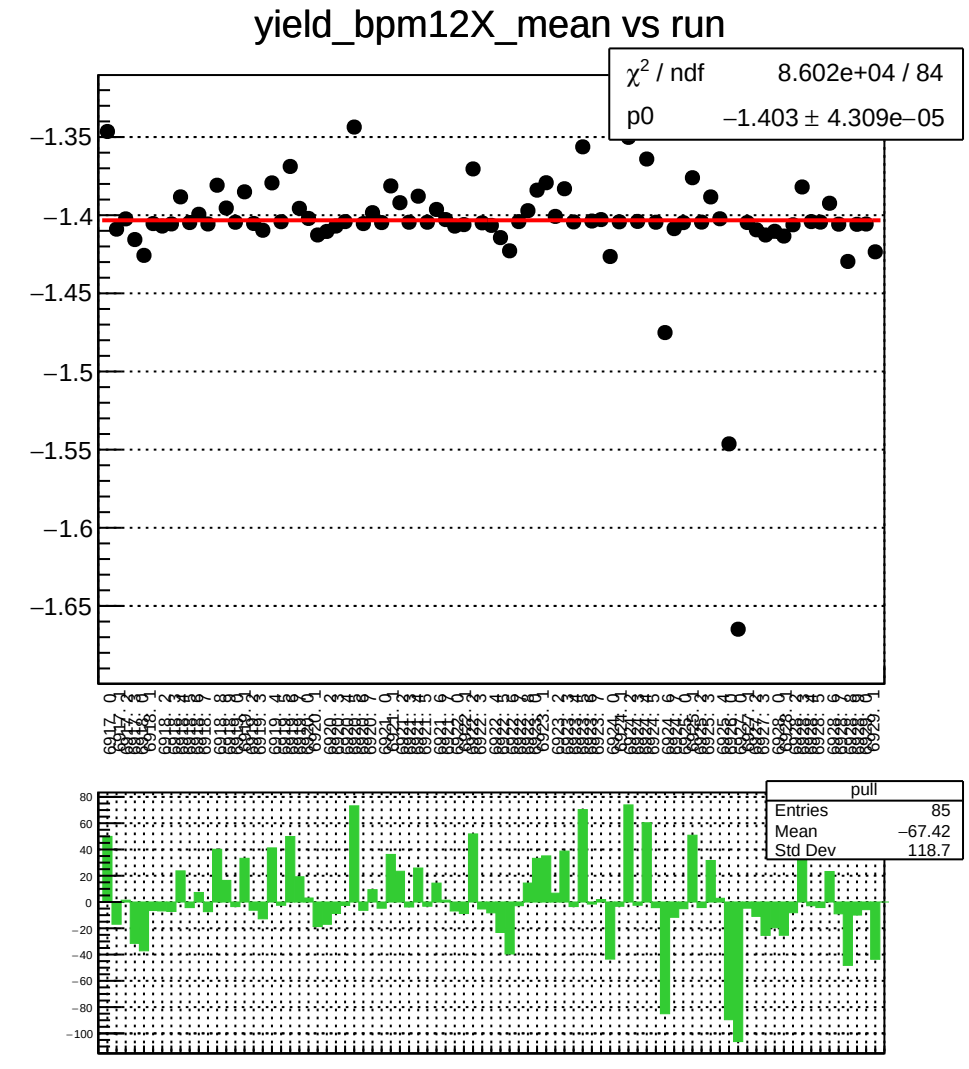

pull1D
Entries 85
Mean −2.53
Std Dev 3.952
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

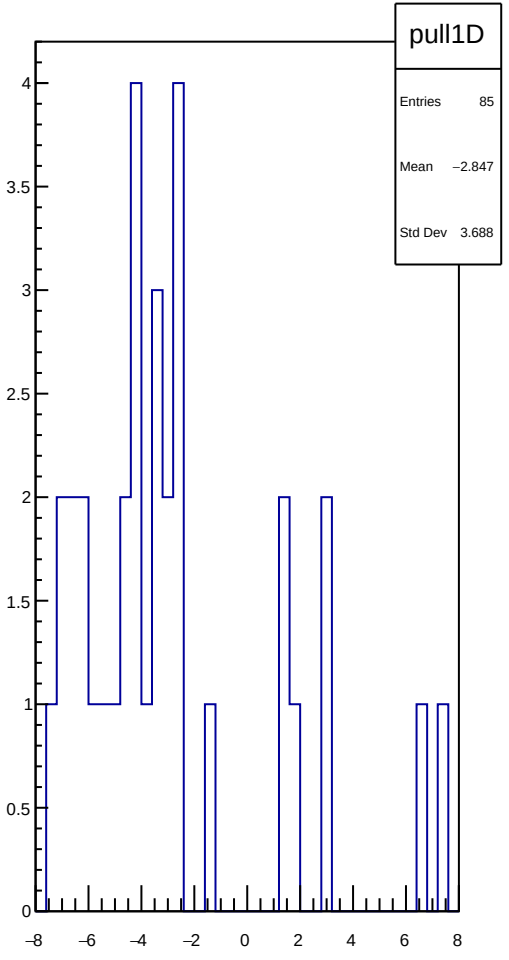

yield_bpm11X_rms vs run
χ^2 / ndf 1.385e+05 / 84
p0 0.01421 ± 1.177e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

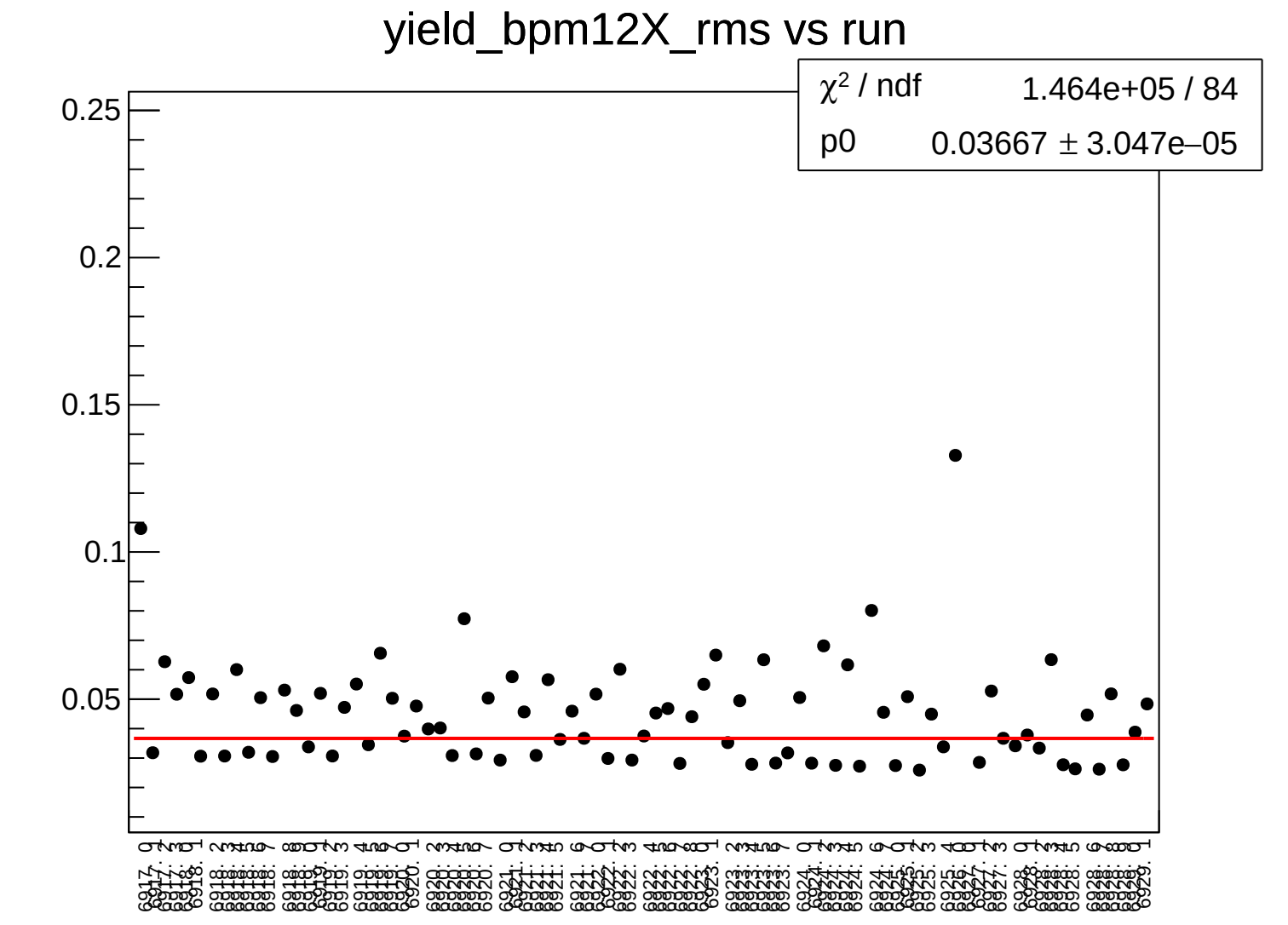

yield_bpm11Y_mean vs run
χ² / ndf 8.006e+05 / 84
p0 0.8108 ± 1.579e−05
0.88
0.86
0.84
0.82
0.8
0.78
pull
Entries 85
Mean 4350
Std Dev 4303
250
200
150
100
50
0
−50
−100
−150

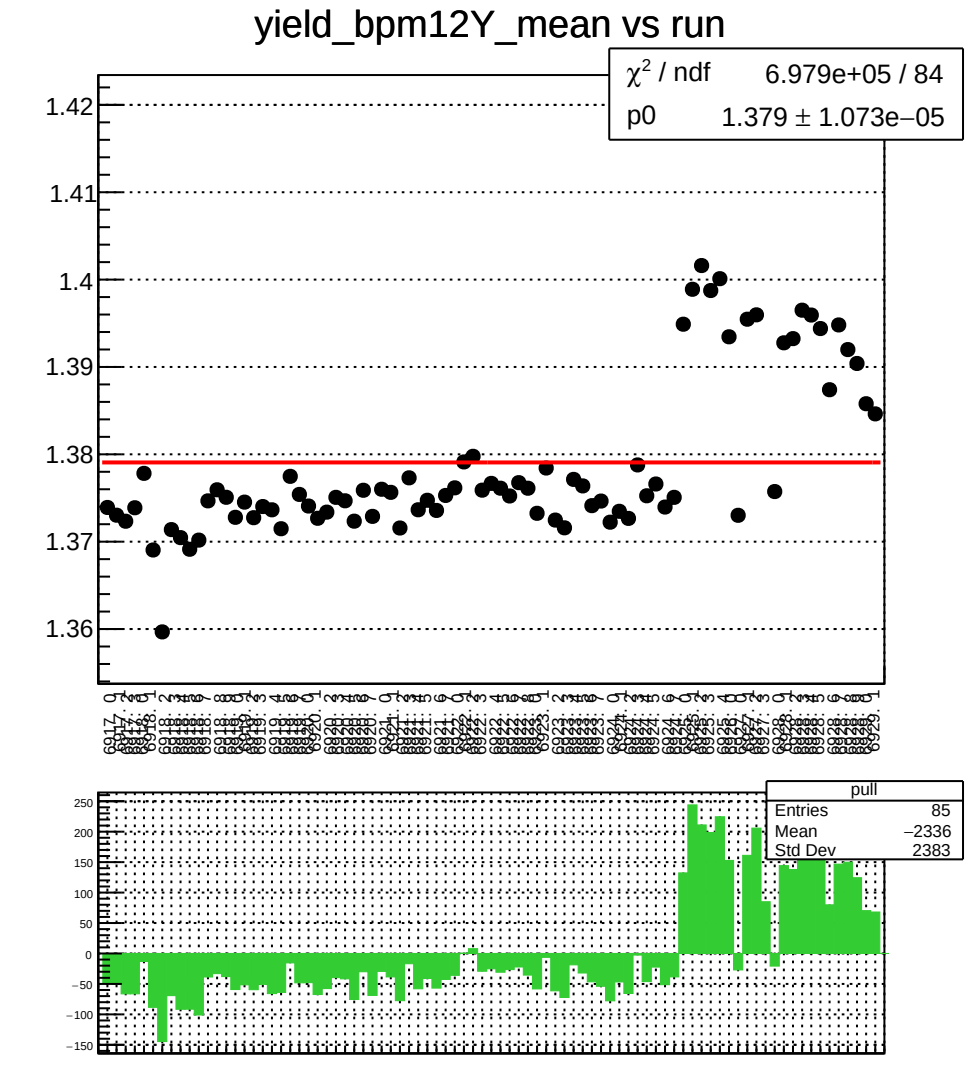

pull1D
Entries 85
Mean 5.026
Std Dev 0.6753
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

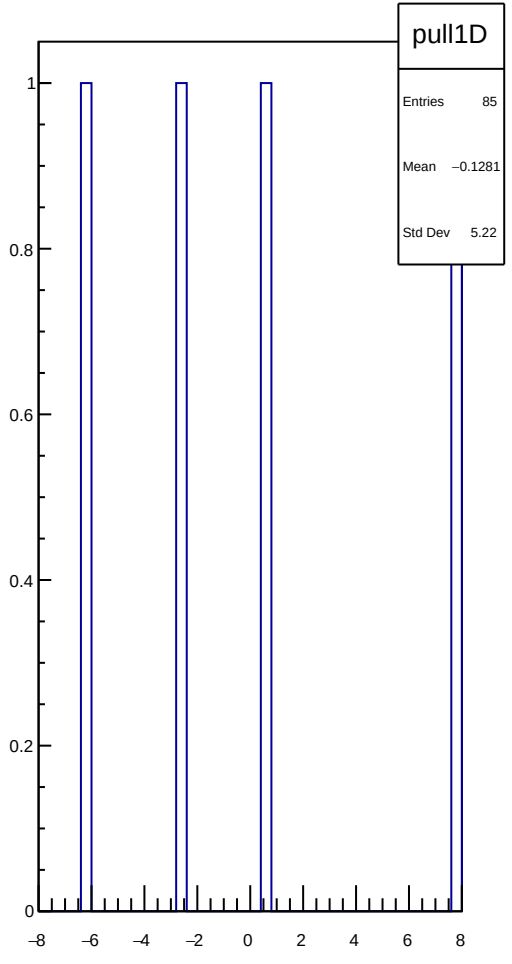

yield_bpm11Y_rms vs run
χ² / ndf 4.124e+04 / 84
p0 0.01391 ± 1.116e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

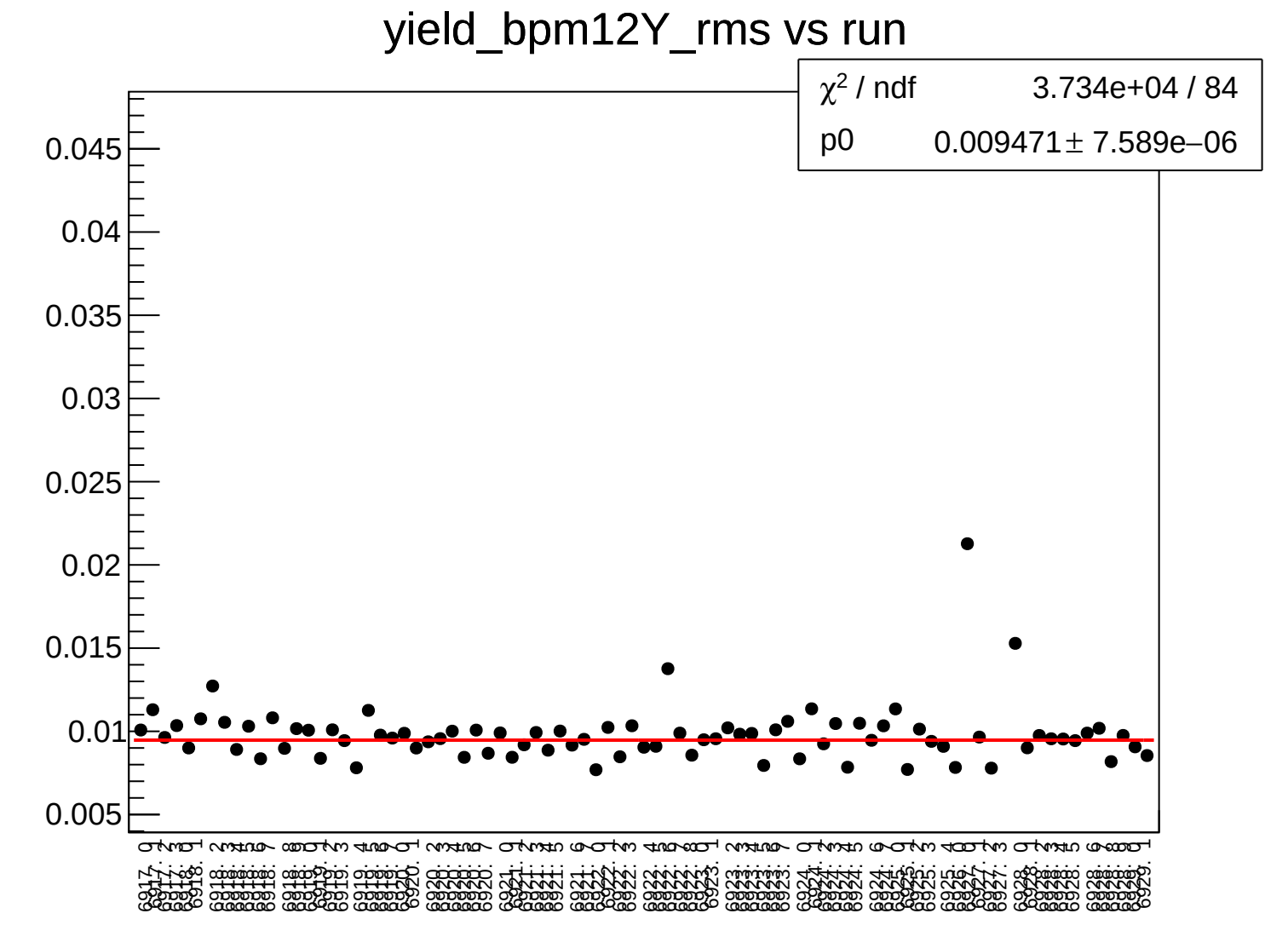

yield_bpm12X_mean vs run
χ² / ndf 8.602e+04 / 84
p0 −1.403 ± 4.309e−05
−1.35
−1.4
−1.45
−1.5
−1.55
−1.6
−1.65
pull
Entries 85
Mean −67.42
Std Dev 118.7
80
60
40
20
0
−20
−40
−60
−80
−100

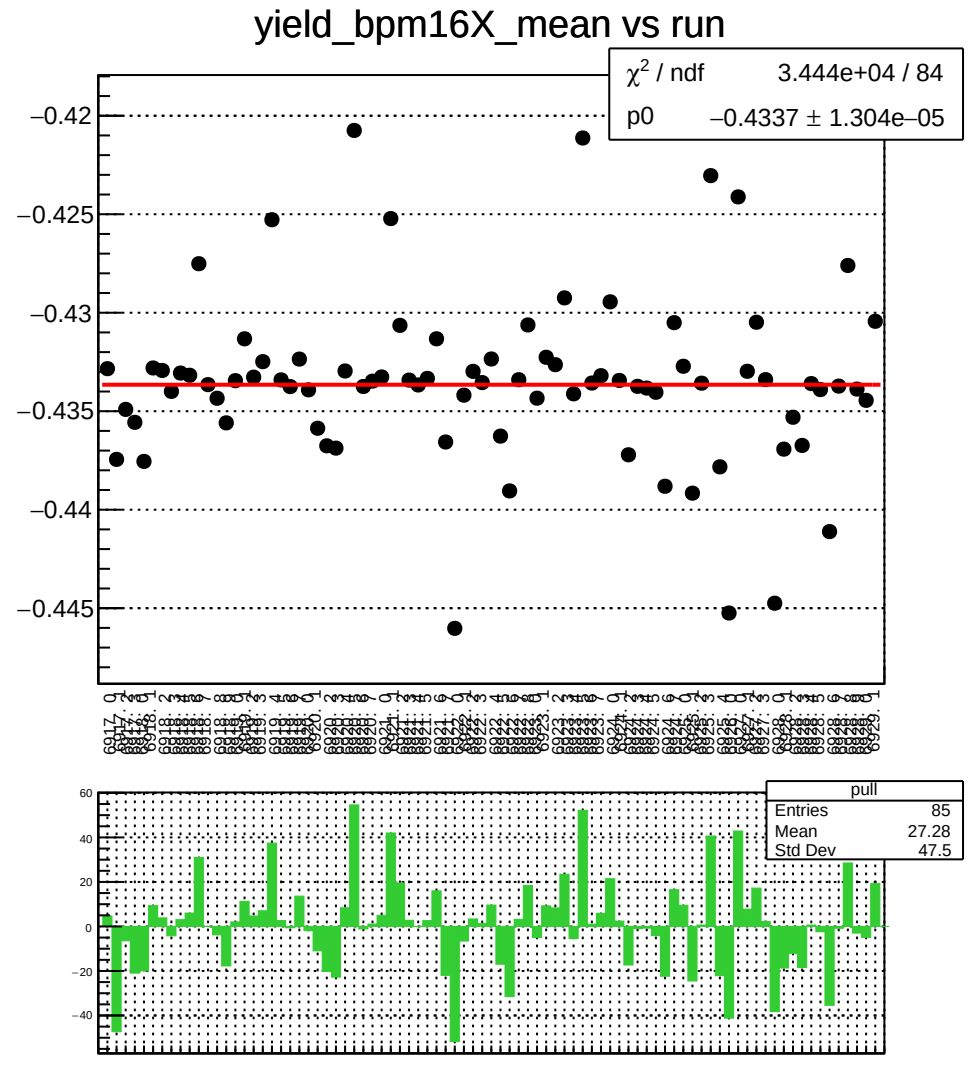

pull1D
Entries 85
Mean −2.847
Std Dev 3.688
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

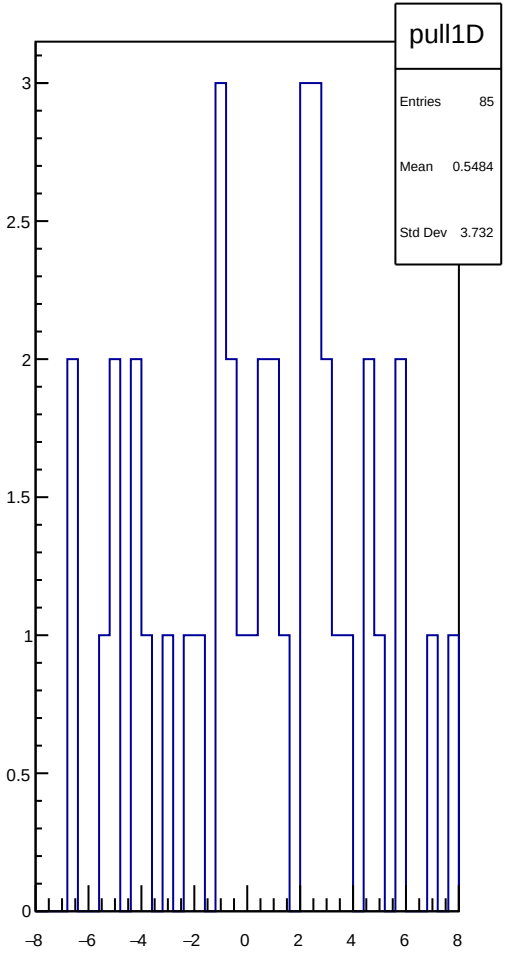

yield_bpm12X_rms vs run
χ² / ndf 1.464e+05 / 84
p0 0.03667 ± 3.047e–05
0.25
0.2
0.15
0.1
0.05

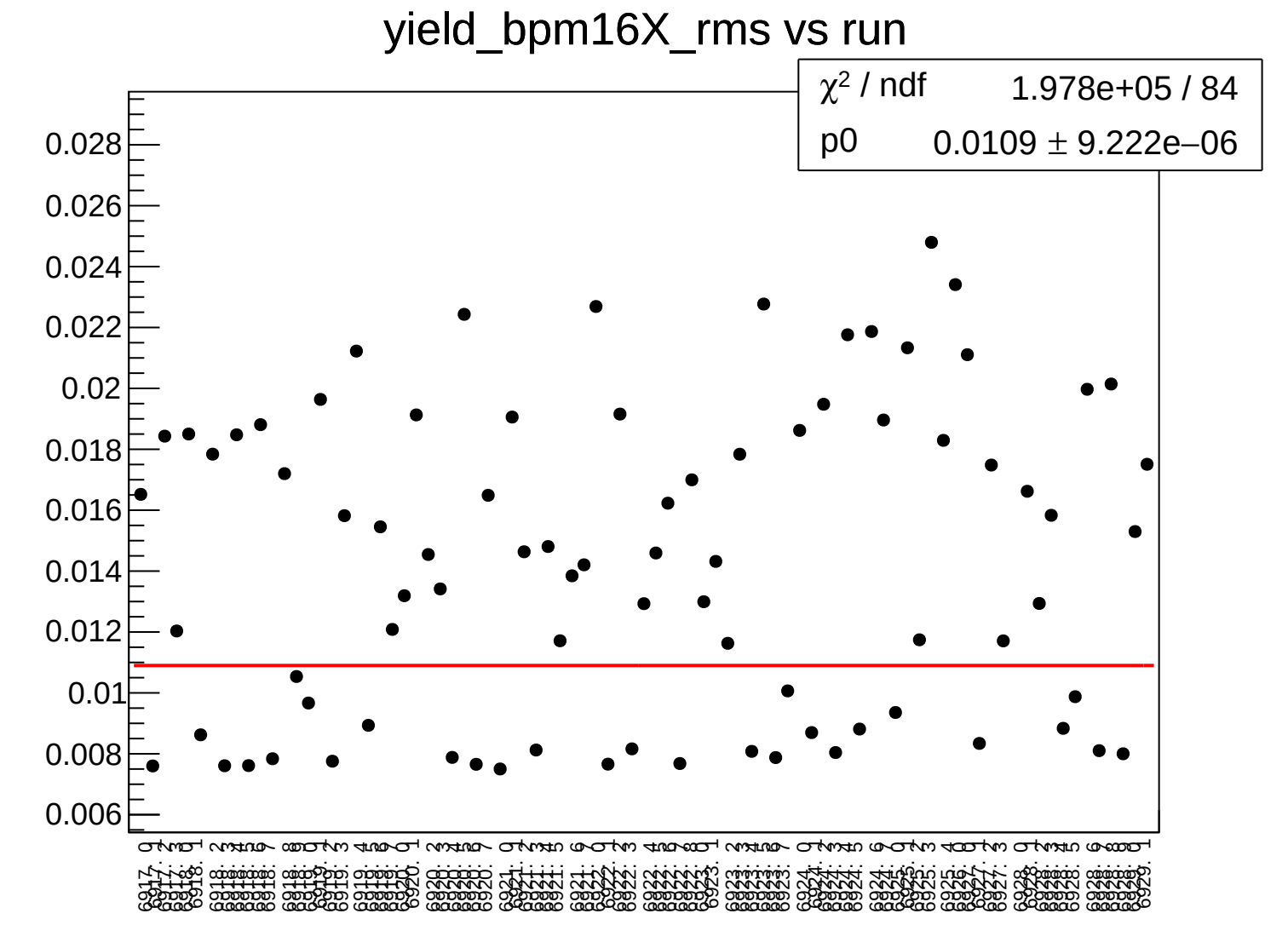

yield_bpm12Y_mean vs run
χ² / ndf 6.979e+05 / 84
p0 1.379 ± 1.073e−05
1.42
1.41
1.4
1.39
1.38
1.37
1.36
pull
Entries 85
Mean −2336
Std Dev 2383
250
200
150
100
50
0
−50
−100
−150

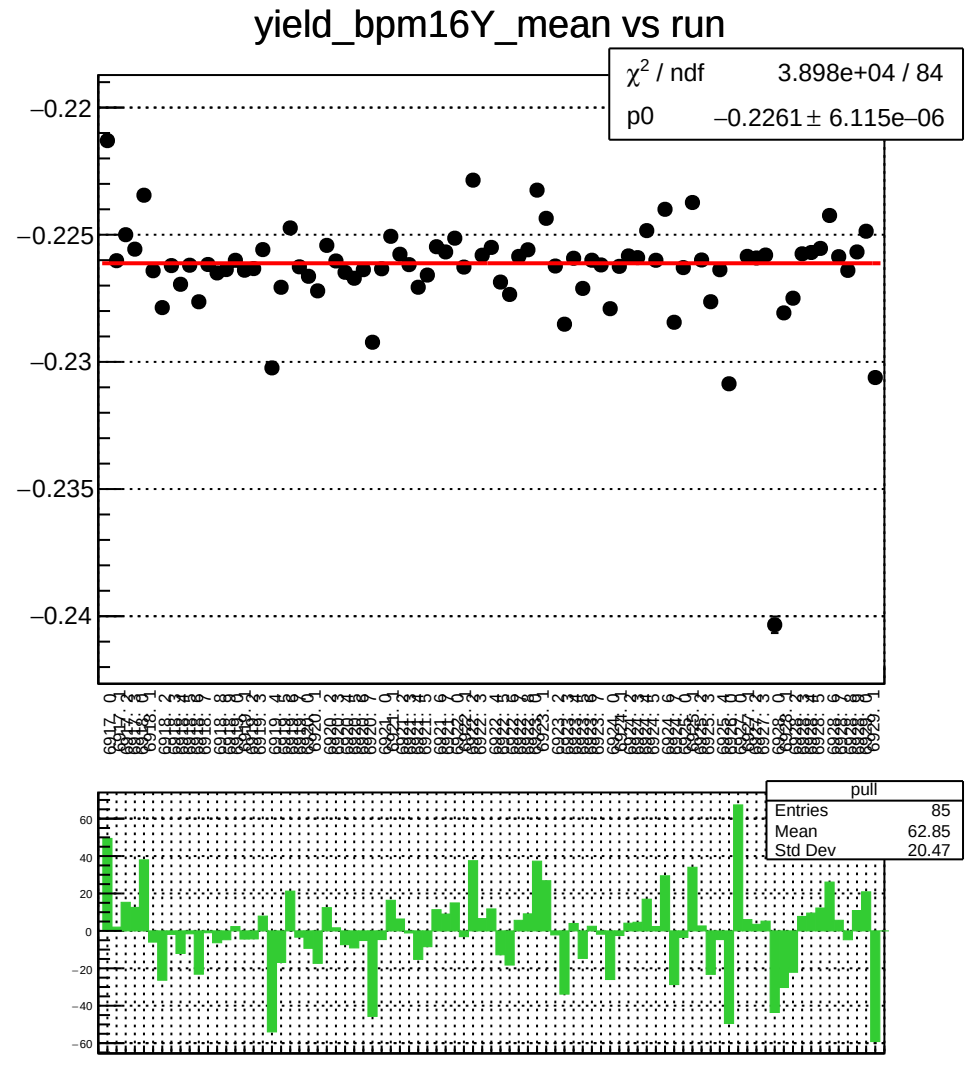

pull1D
Entries 85
Mean −0.1281
Std Dev 5.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

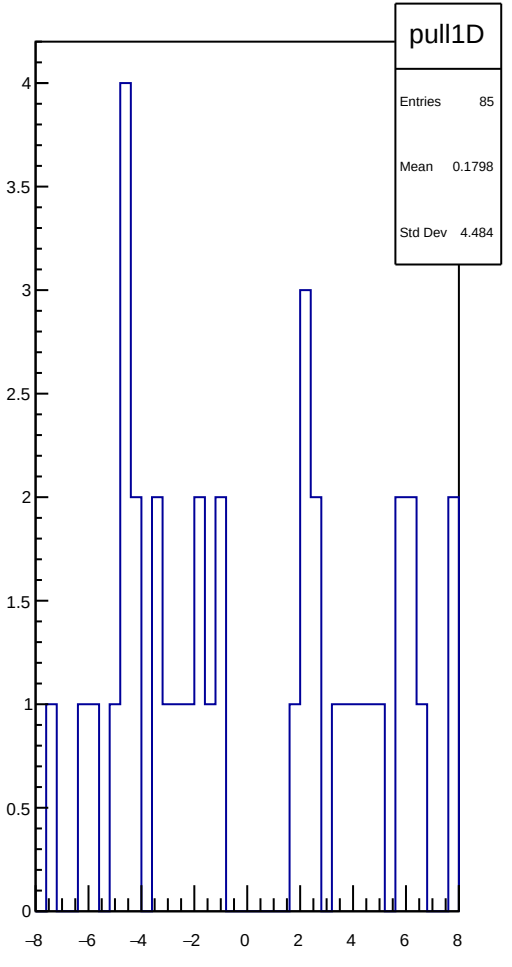

yield_bpm12Y_rms vs run
χ^2 / ndf 3.734e+04 / 84
p0 0.009471 ± 7.589e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

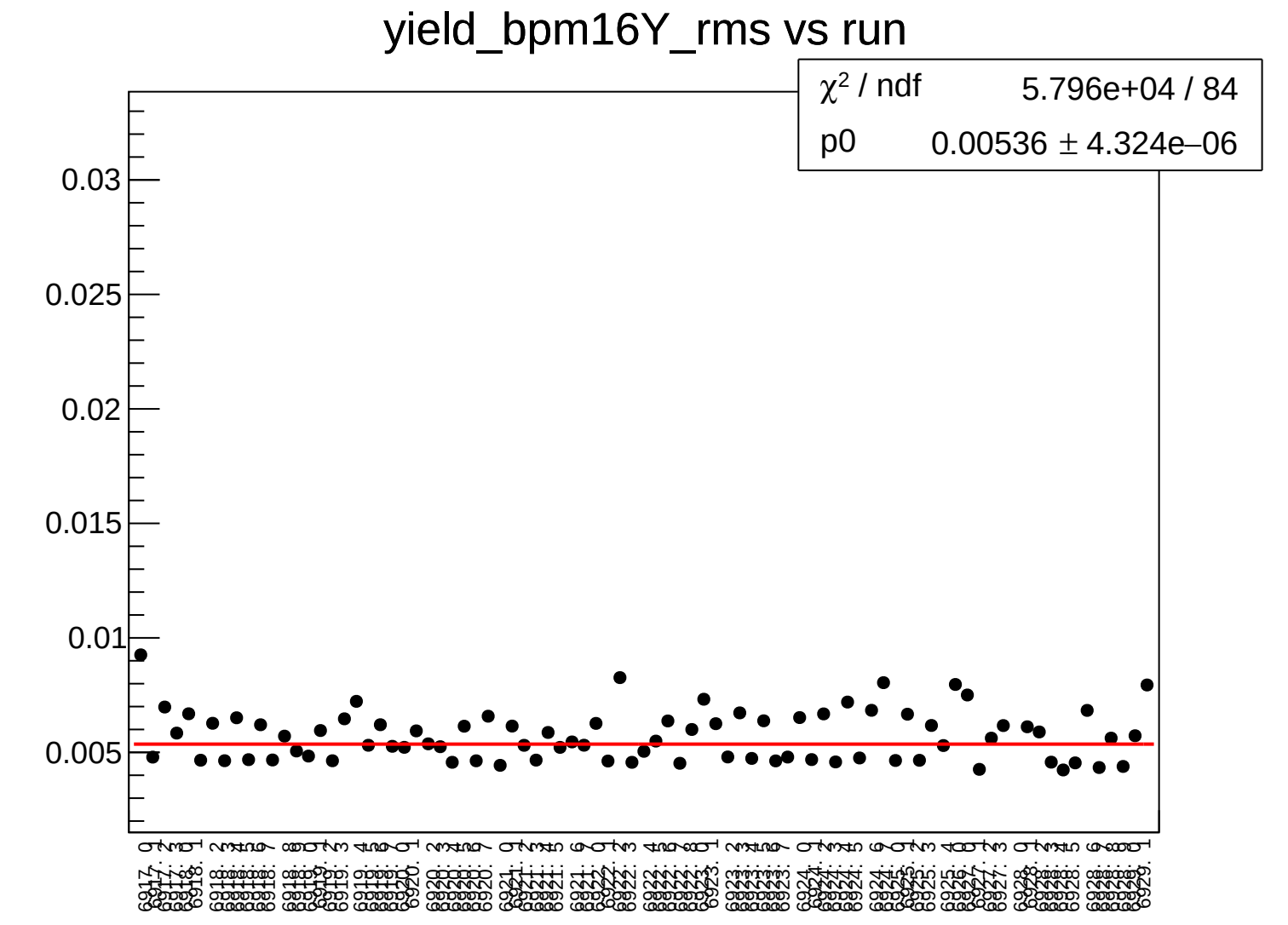

yield_bpm16X_mean vs run
χ² / ndf 3.444e+04 / 84
p0 −0.4337 ± 1.304e−05
−0.42
−0.425
−0.43
−0.435
−0.44
−0.445
pull
Entries 85
Mean 27.28
Std Dev 47.5
60
40
20
0
−20
−40

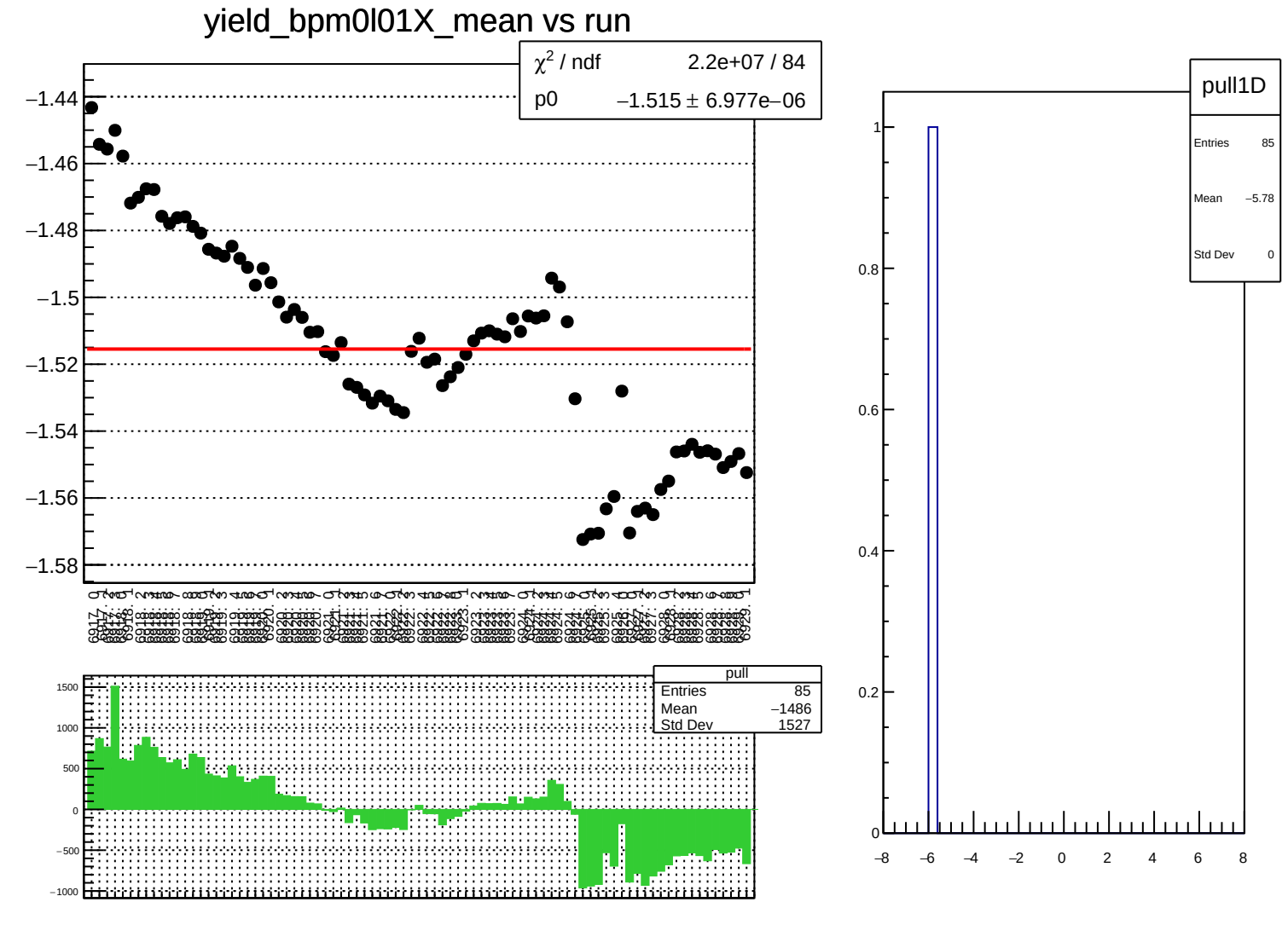

pull1D
Entries 85
Mean 0.5484
Std Dev 3.732
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

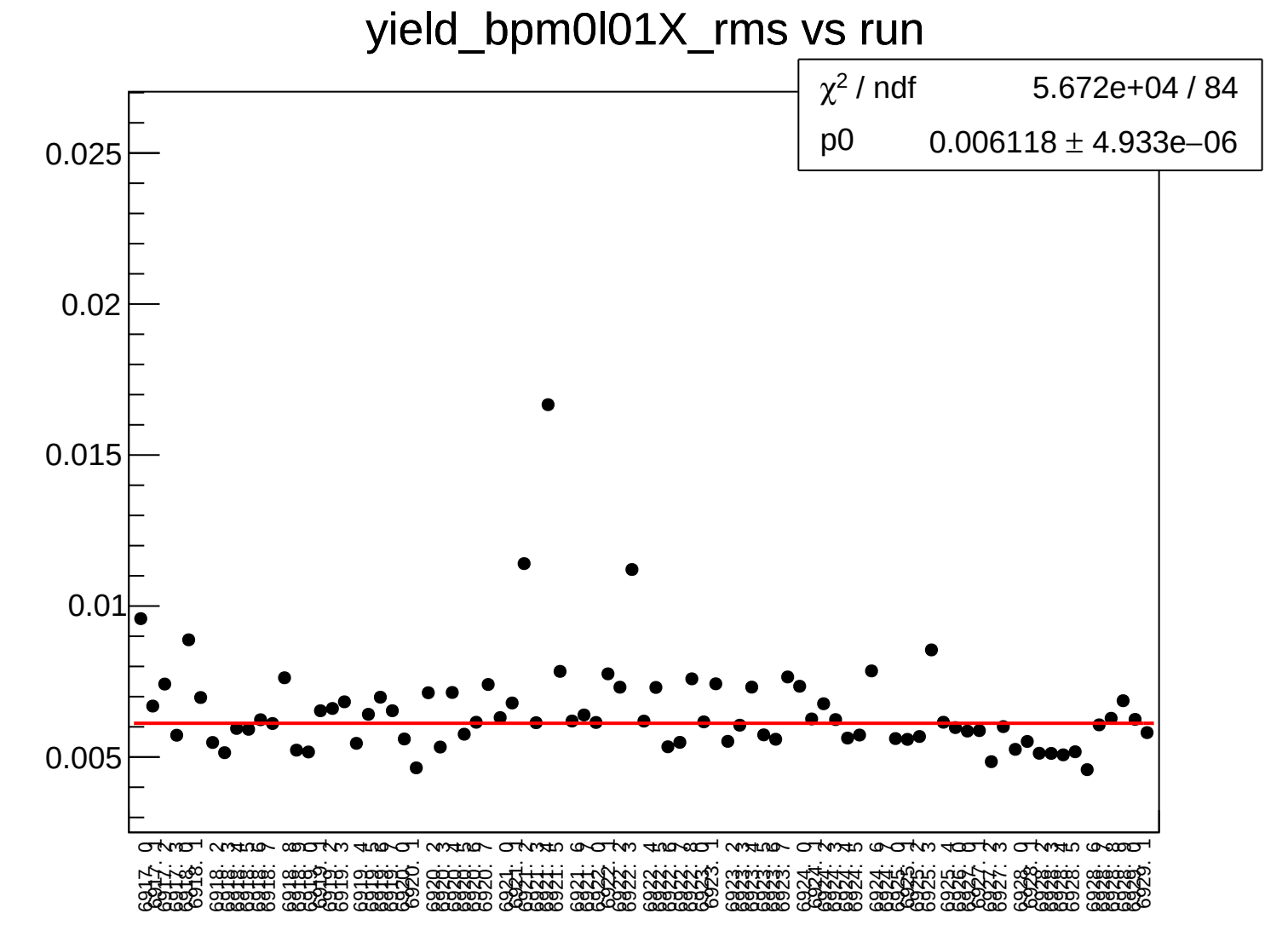

yield_bpm16X_rms vs run
χ² / ndf 1.978e+05 / 84
p0 0.0109 ± 9.222e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

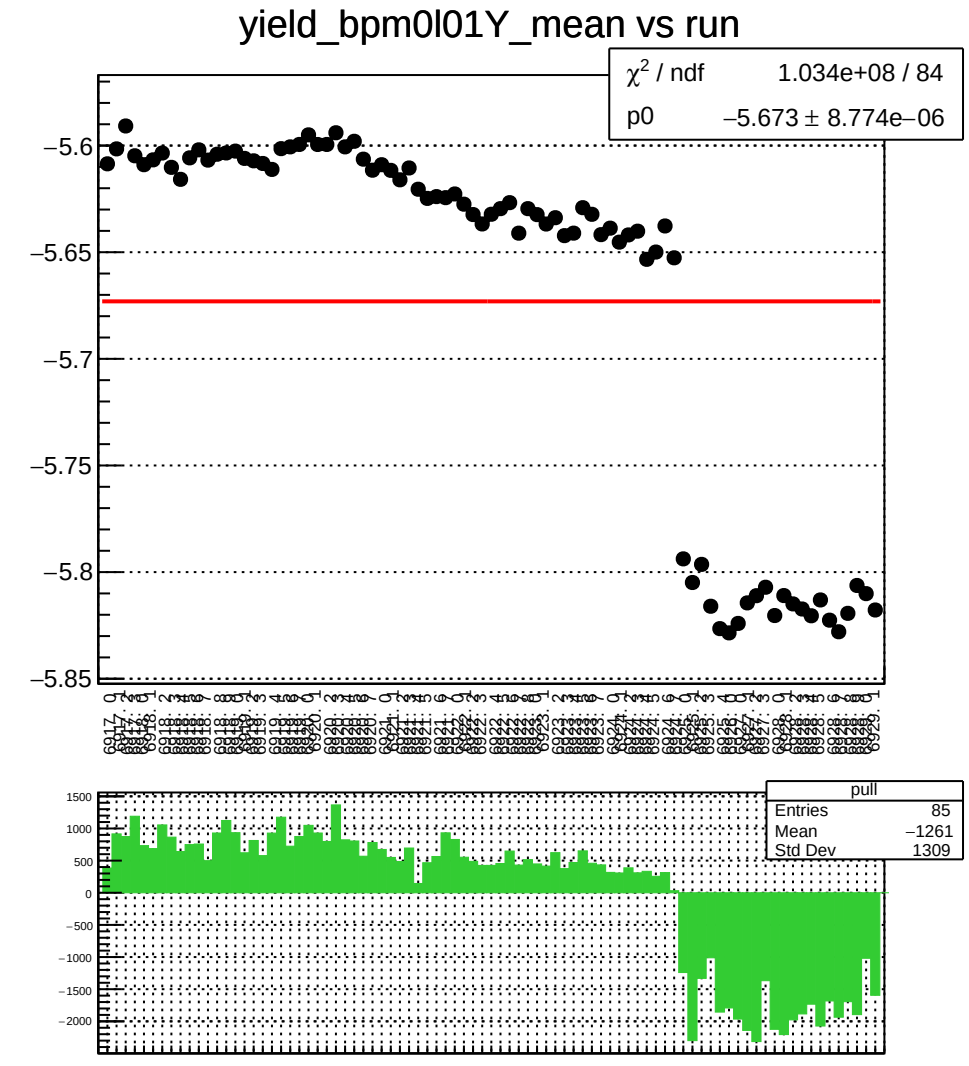

yield_bpm16Y_mean vs run
χ² / ndf 3.898e+04 / 84
p0 −0.2261 ± 6.115e−06
−0.22
−0.225
−0.23
−0.235
−0.24
pull
Entries 85
Mean 62.85
Std Dev 20.47
60
40
20
0
−20
−40
−60

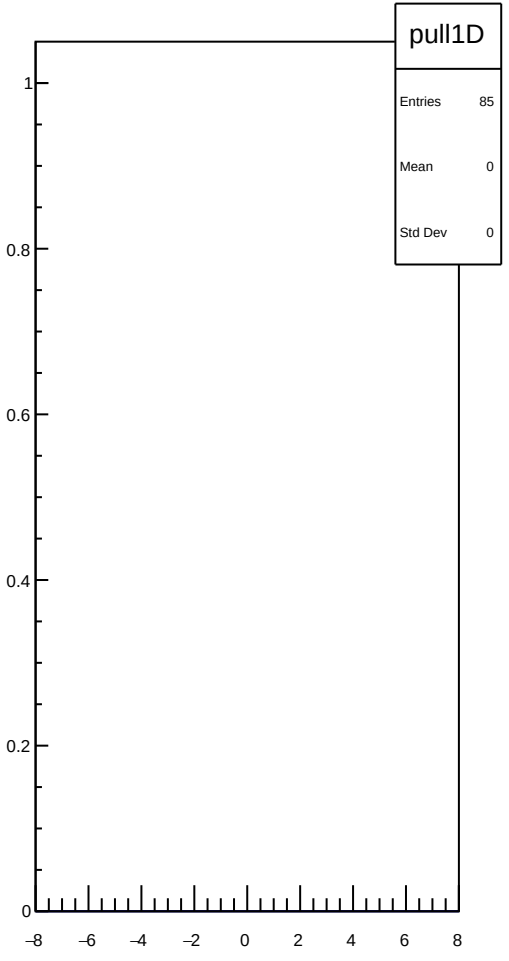

pull1D
Entries 85
Mean 0.1798
Std Dev 4.484
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

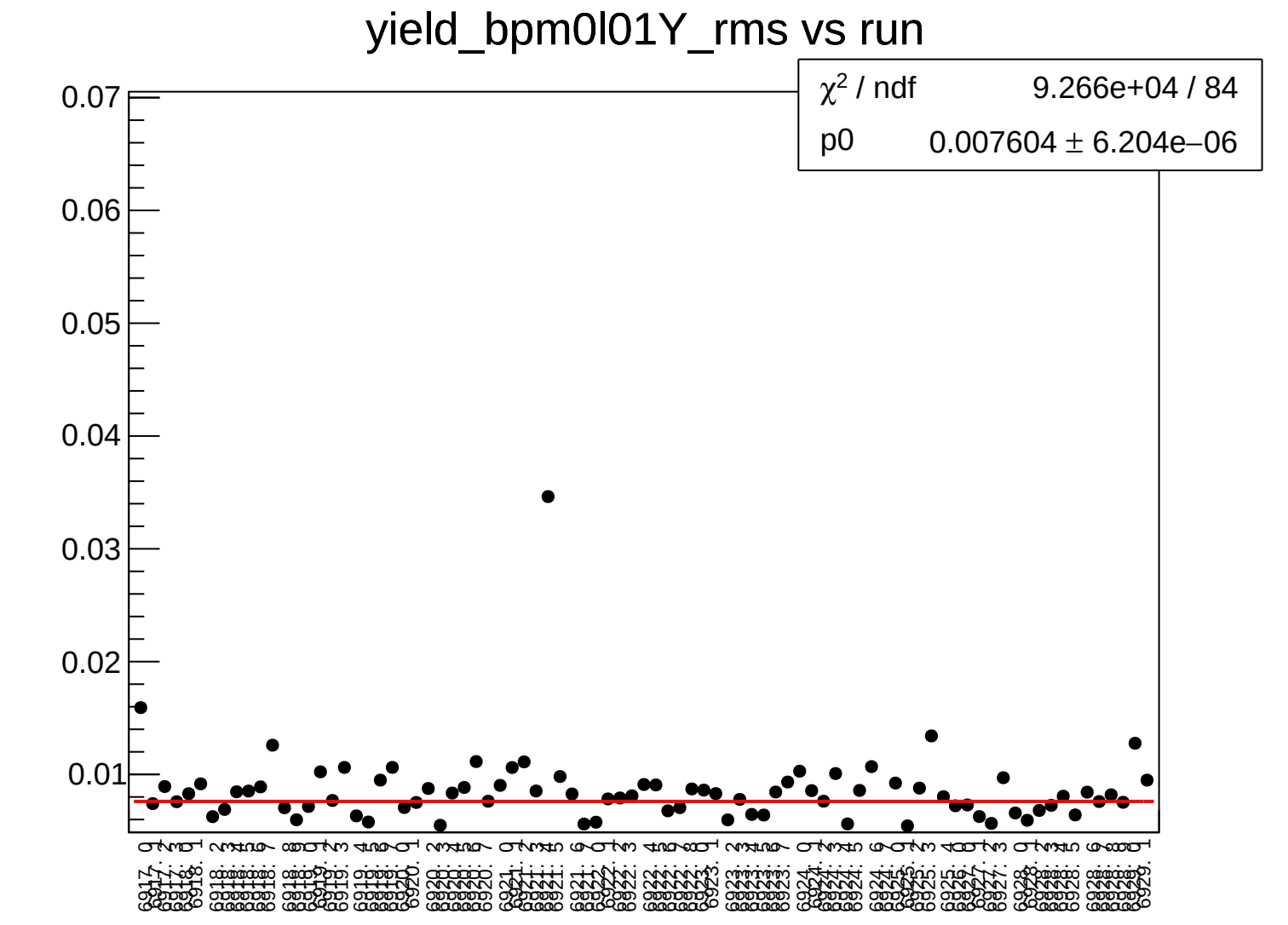

yield_bpm16Y_rms vs run
χ² / ndf 5.796e+04 / 84
p0 0.00536 ± 4.324e–06
0.03
0.025
0.02
0.015
0.01
0.005

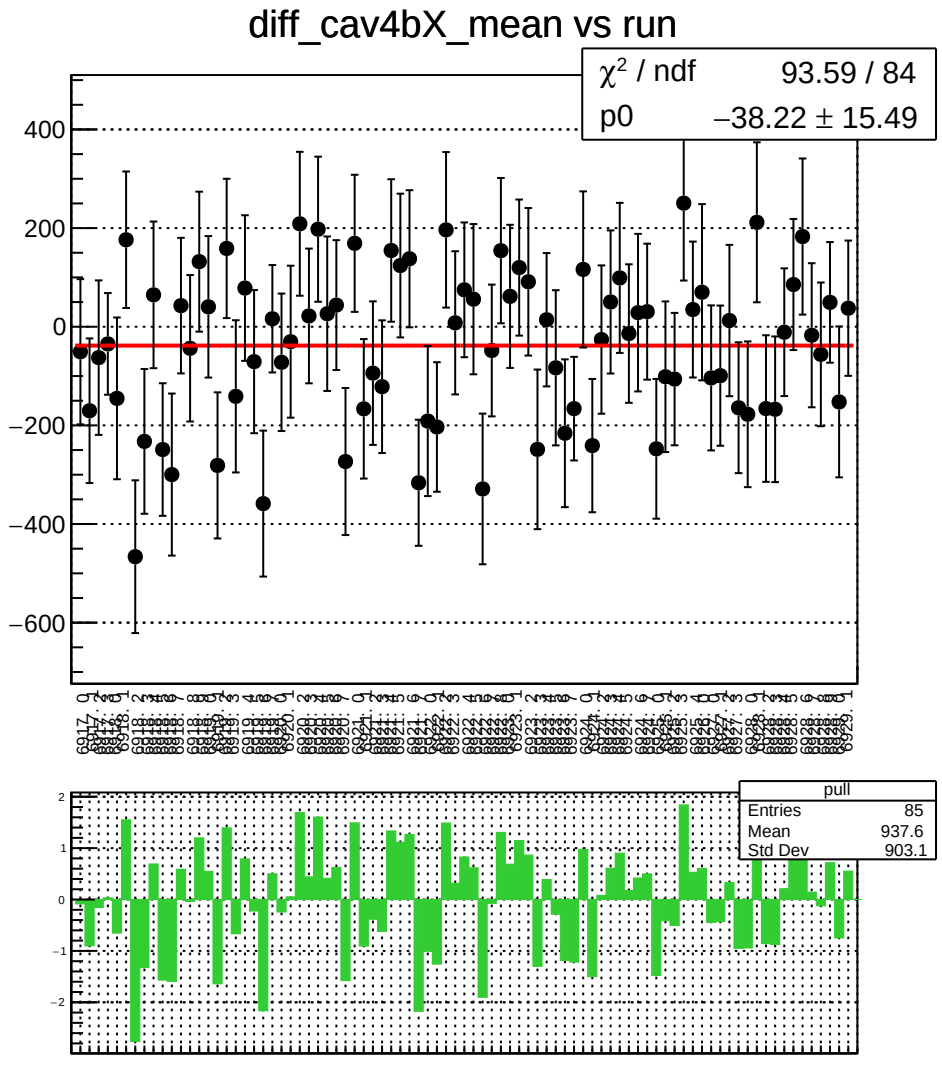

yield_bpm0l01X_mean vs run
χ² / ndf 2.2e+07 / 84
p0 −1.515 ± 6.977e−06
−1.44
−1.46
−1.48
−1.5
−1.52
−1.54
−1.56
−1.58
pull
Entries 85
Mean −1486
Std Dev 1527
1500
1000
500
0
−500
−1000
pull1D
Entries 85
Mean −5.78
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

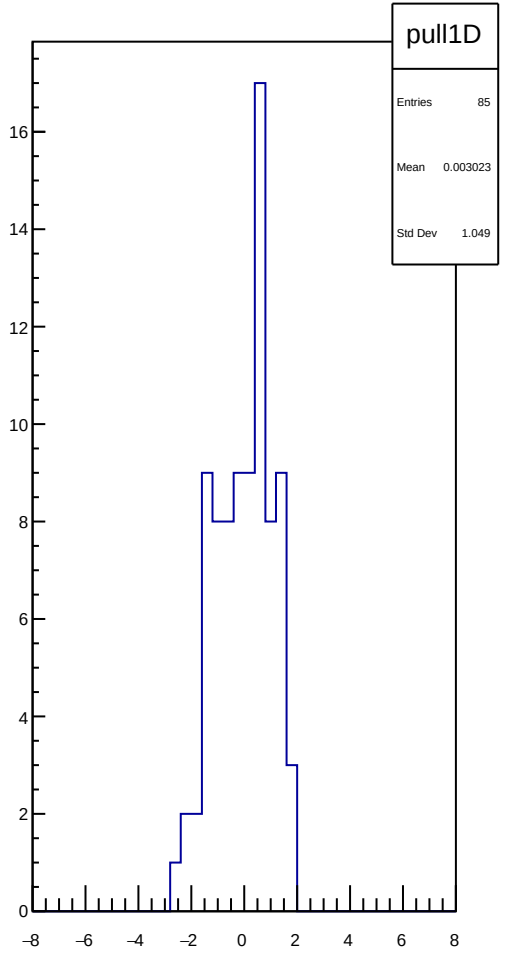

yield_bpm0l01X_rms vs run
χ² / ndf 5.672e+04 / 84
p0 0.006118 ± 4.933e−06
0.025
0.02
0.015
0.01
0.005

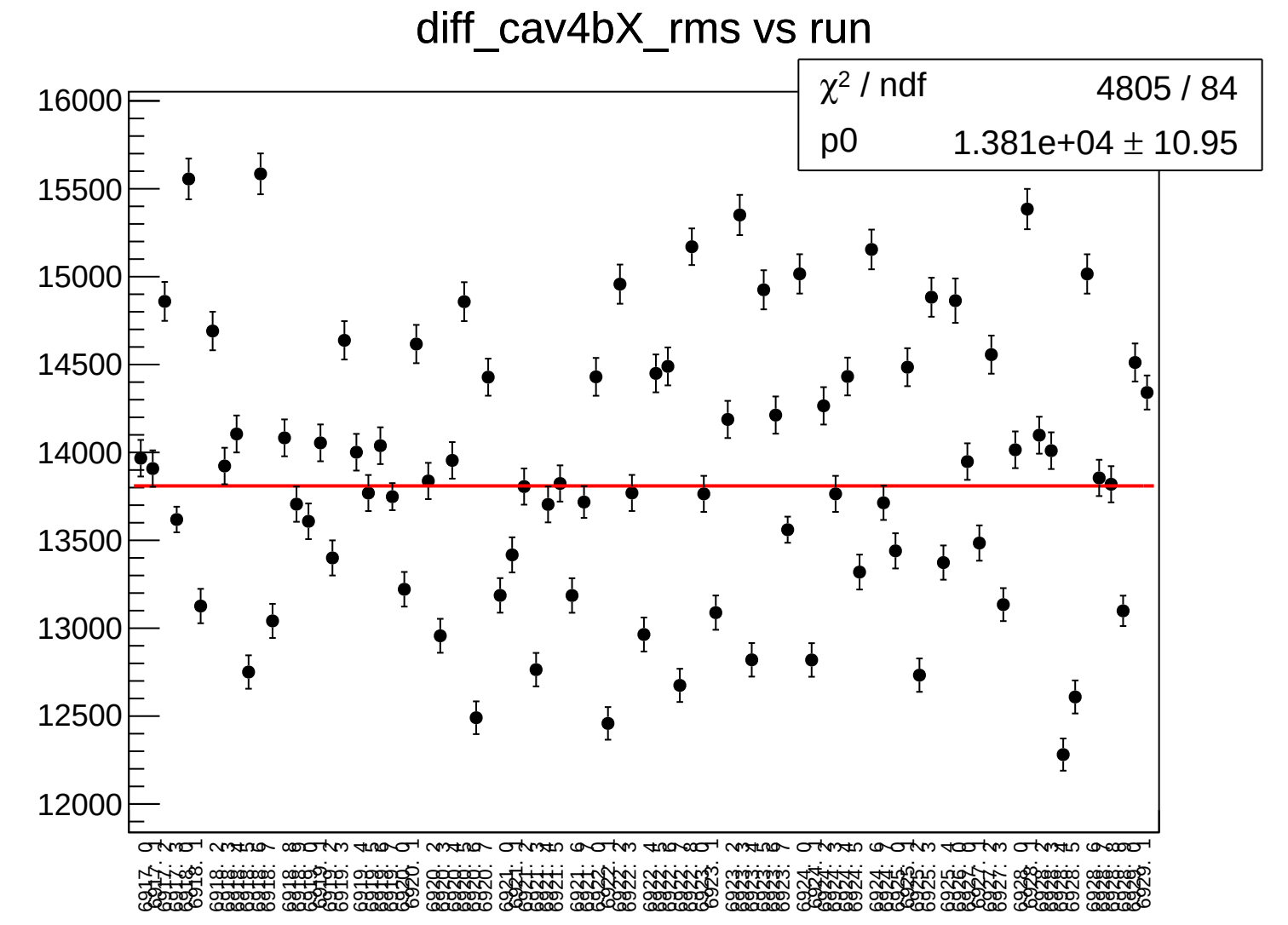

yield_bpm0l01Y_mean vs run
χ² / ndf 1.034e+08 / 84
p0 −5.673 ± 8.774e−06
−5.6
−5.65
−5.7
−5.75
−5.8
−5.85
pull
Entries 85
Mean −1261
Std Dev 1309
1500
1000
500
0
−500
−1000
−1500
−2000

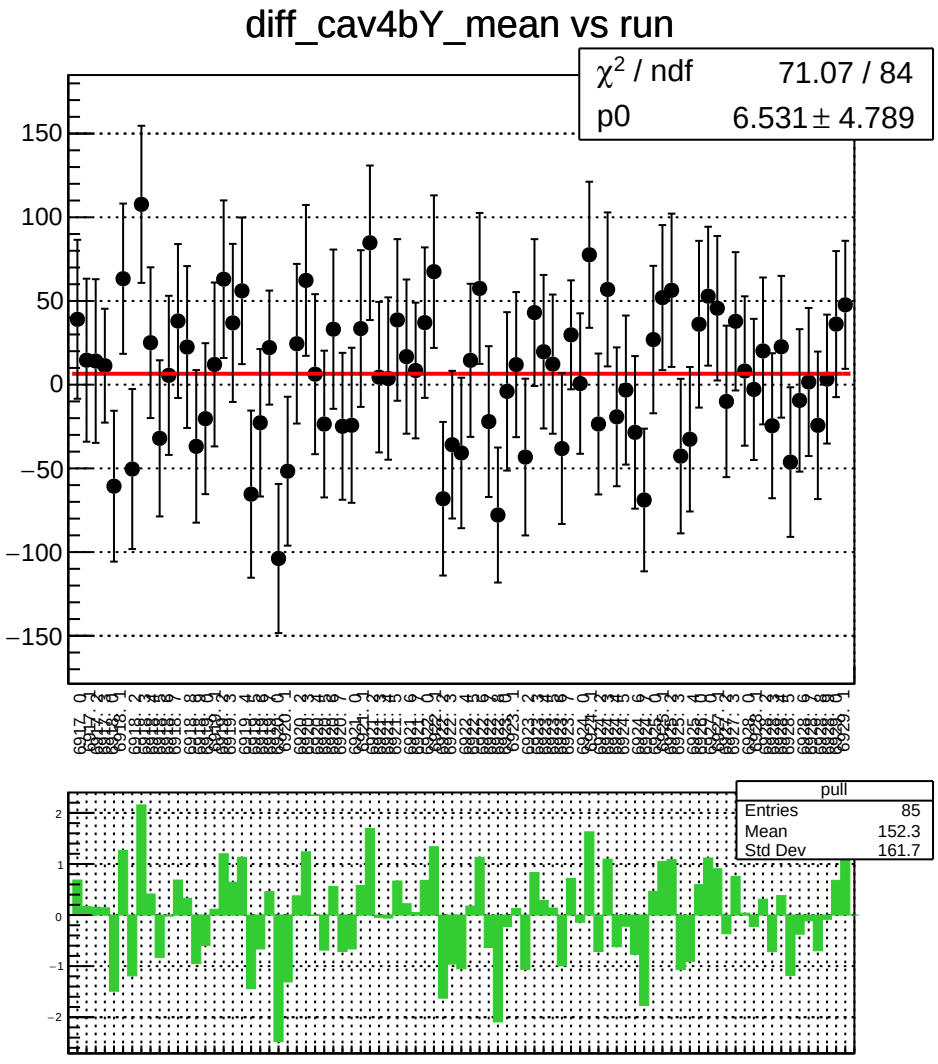

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

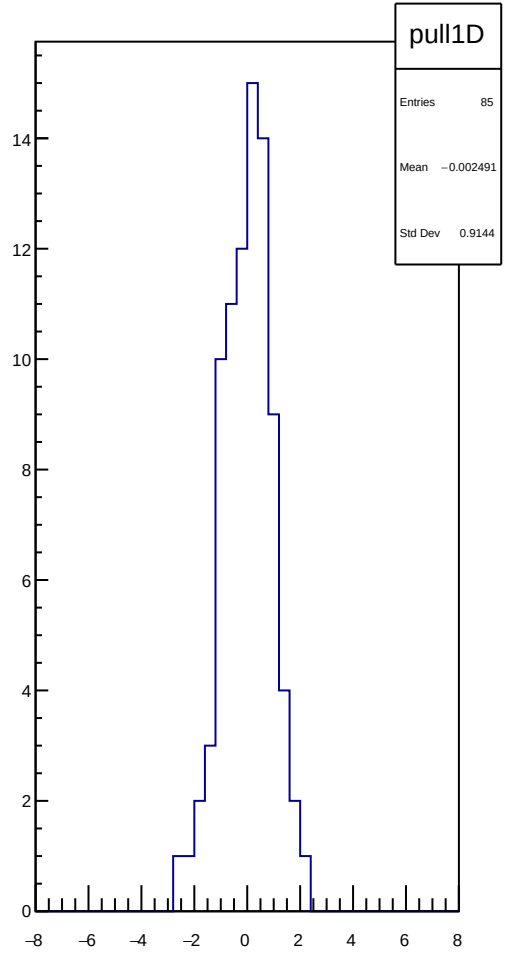

yield_bpm0l01Y_rms vs run
χ^2 / ndf 9.266e+04 / 84
p0 0.007604 ± 6.204e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

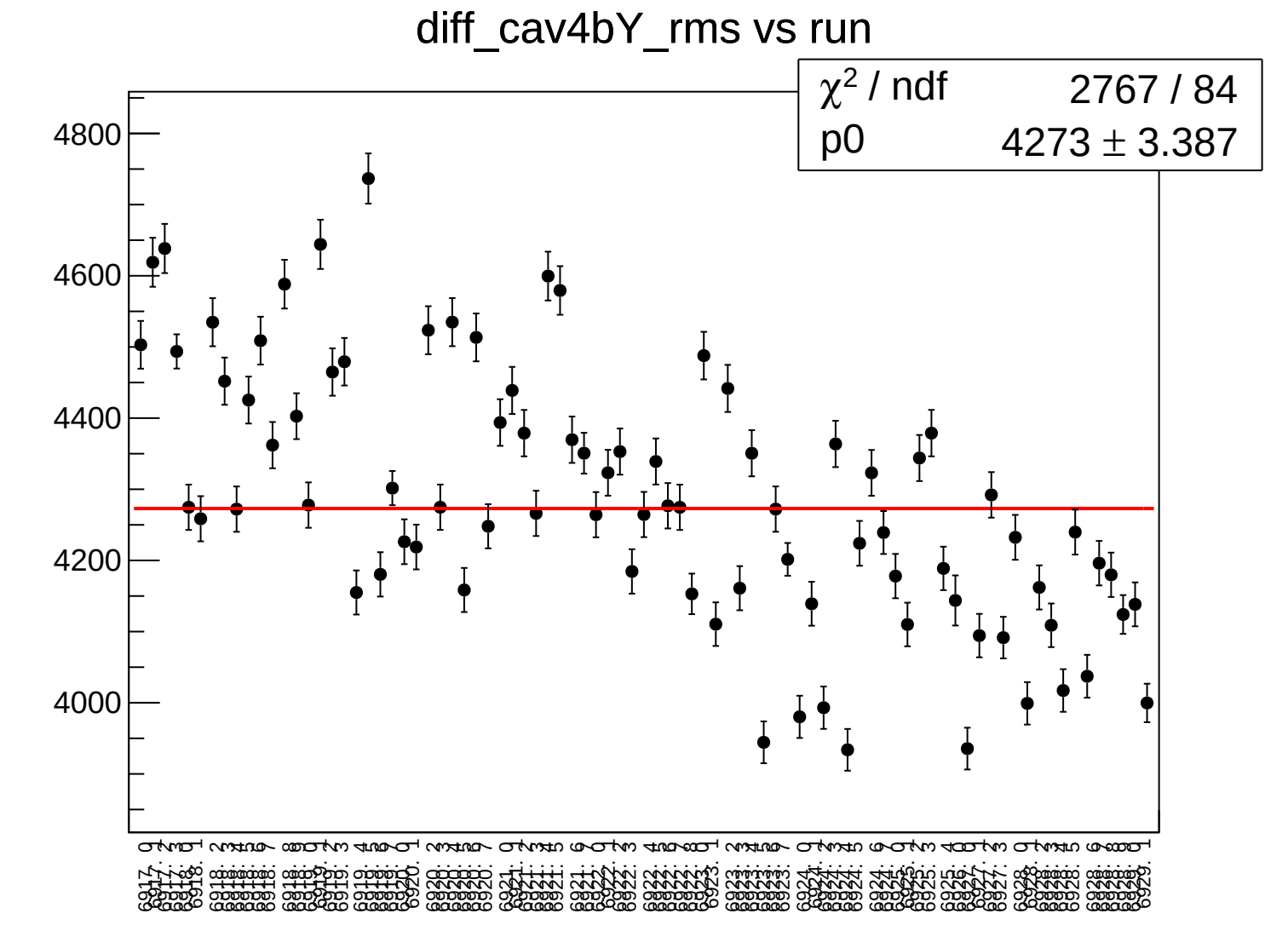

diff_cav4bX_mean vs run
χ² / ndf 93.59 / 84
p0 −38.22 ± 15.49
400
200
0
−200
−400
−600
pull
Entries 85
Mean 937.6
Std Dev 903.1
2
1
0
−1
−2

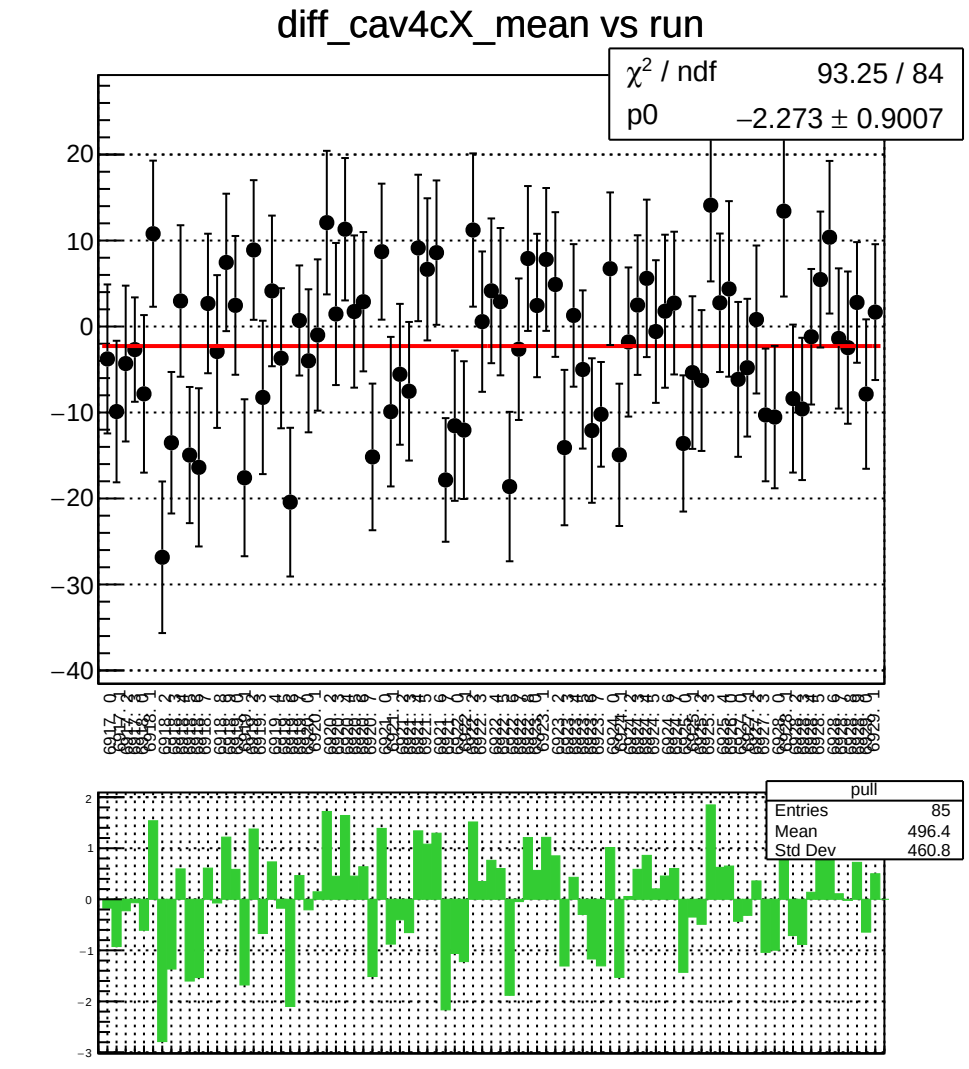

pull1D
Entries 85
Mean 0.003023
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

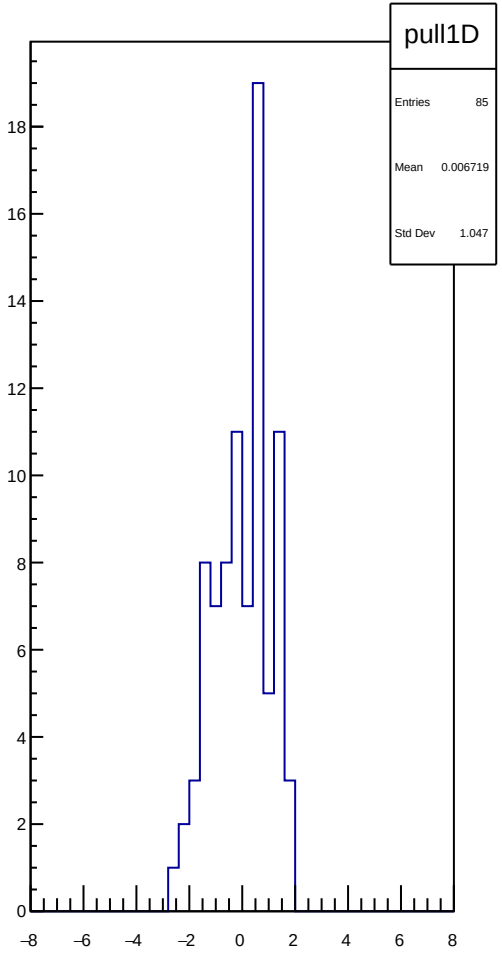

diff_cav4bX_rms vs run
χ² / ndf 4805 / 84
p0 1.381e+04 ± 10.95
16000
15500
15000
14500
14000
13500
13000
12500
12000

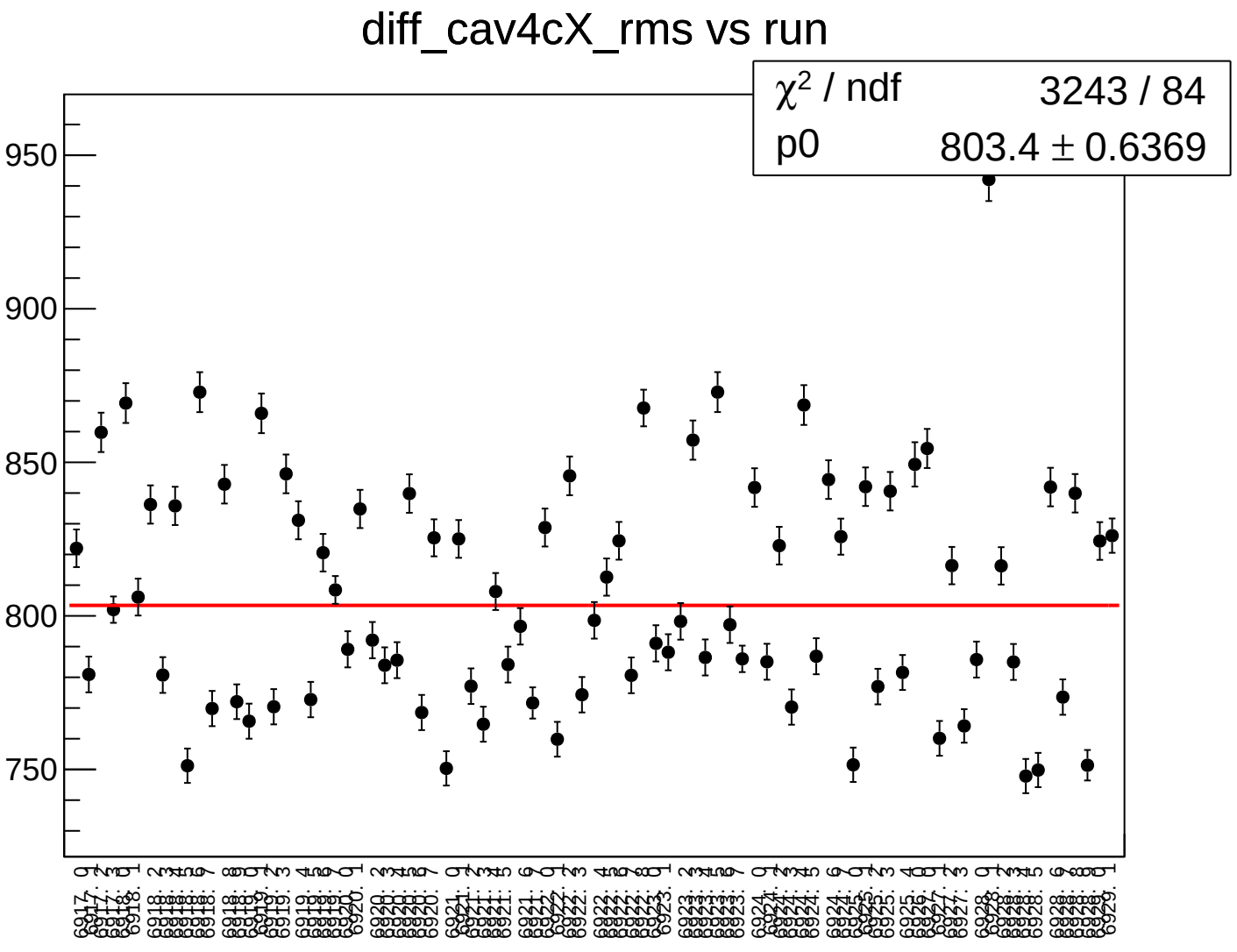

diff_cav4bY_mean vs run
χ² / ndf 71.07 / 84
p0 6.531 ± 4.789
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 152.3
Std Dev 161.7
2
1
0
−1
−2

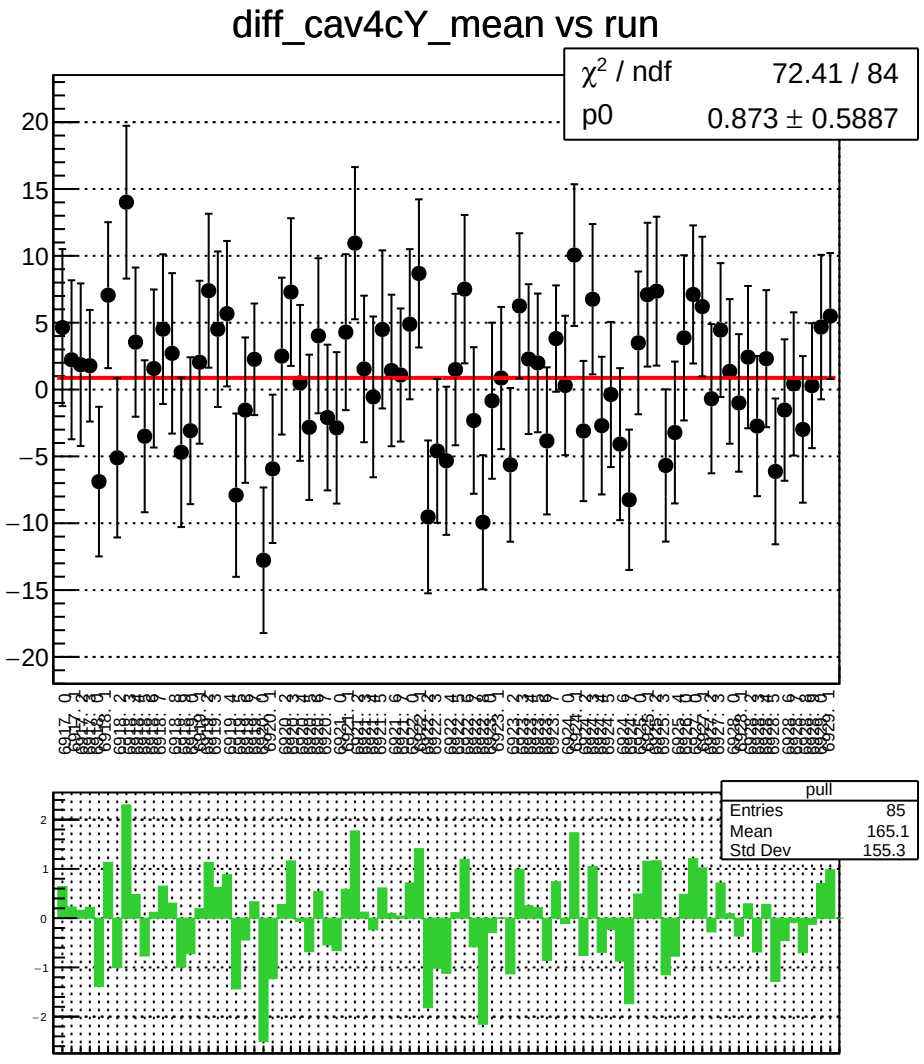

pull1D
Entries 85
Mean −0.002491
Std Dev 0.9144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

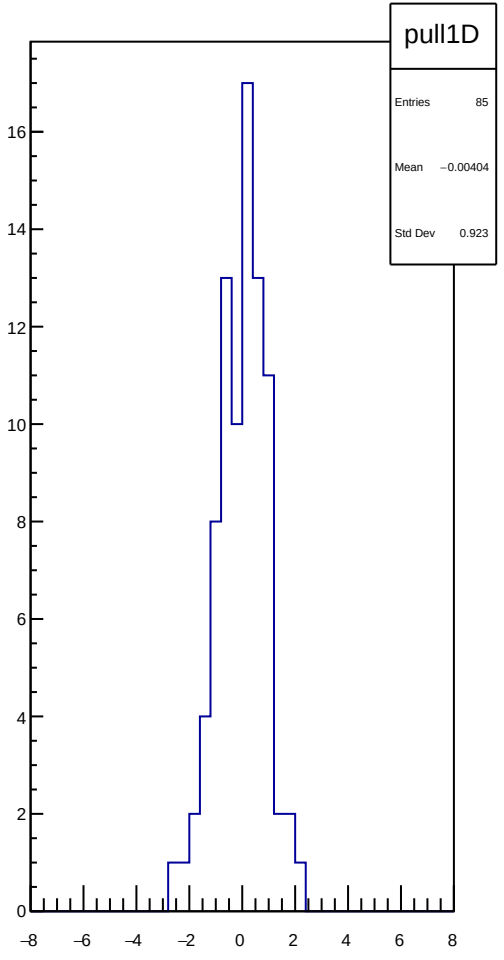

diff_cav4bY_rms vs run
χ² / ndf 2767 / 84
p0 4273 ± 3.387
4800
4600
4400
4200
4000

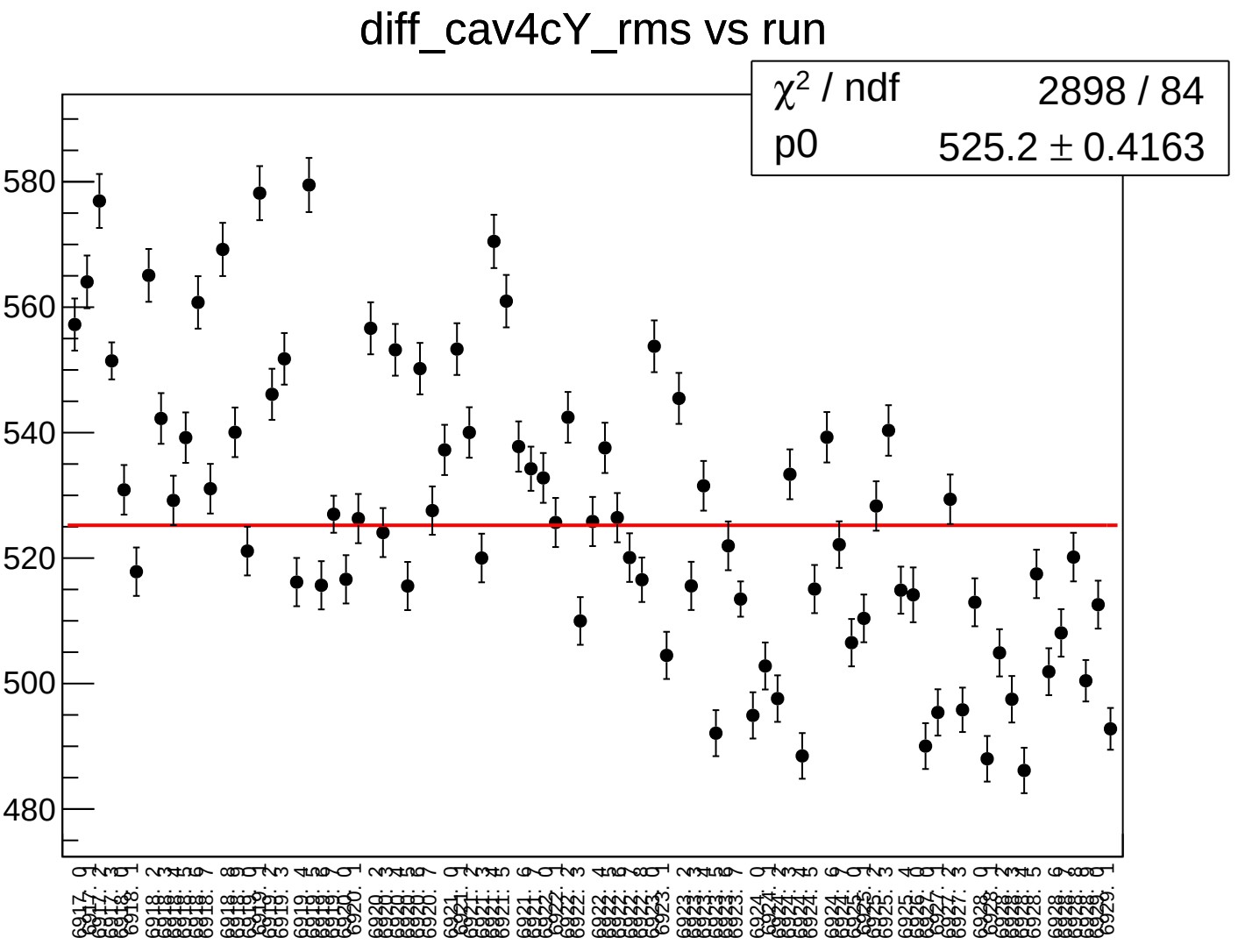

diff_cav4cX_mean vs run
χ² / ndf 93.25 / 84
p0 −2.273 ± 0.9007
pull
Entries 85
Mean 496.4
Std Dev 460.8

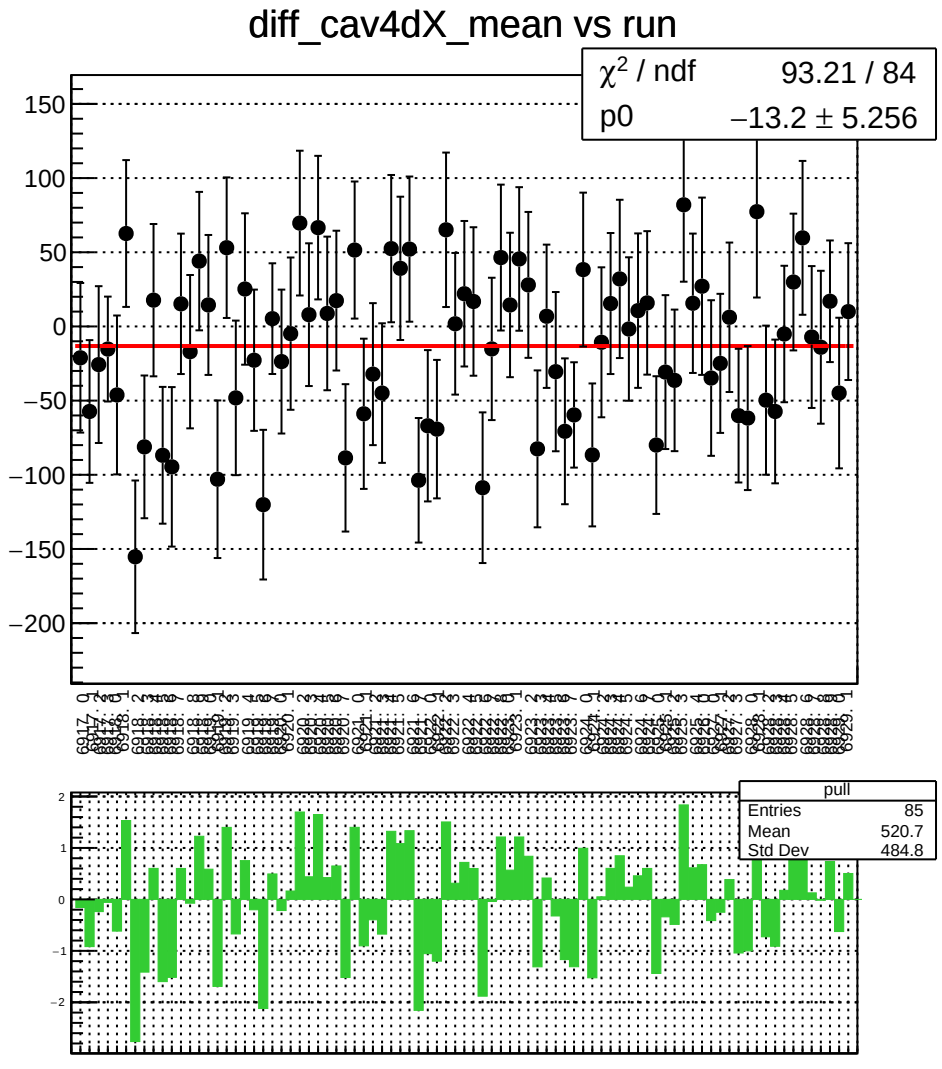

pull1D
Entries 85
Mean 0.006719
Std Dev 1.047

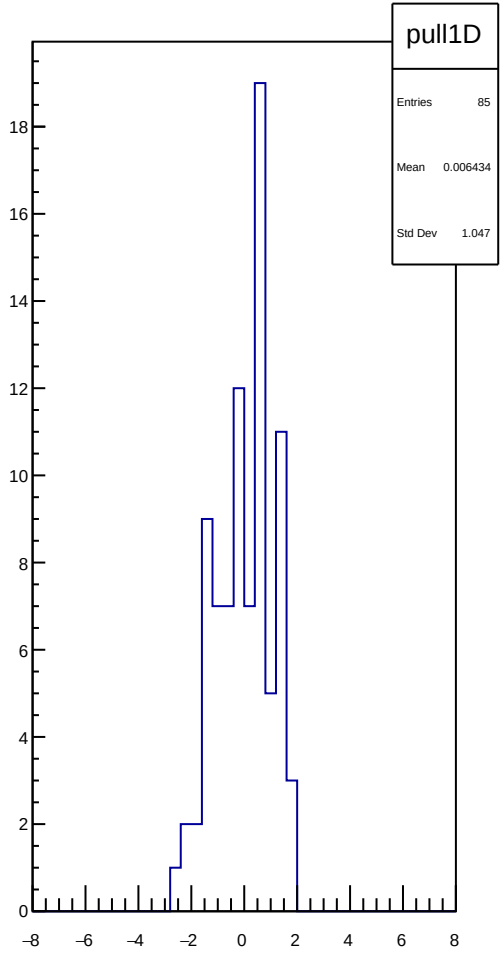

diff_cav4cX_rms vs run
χ² / ndf 3243 / 84
p0 803.4 ± 0.6369
950
900
850
800
750

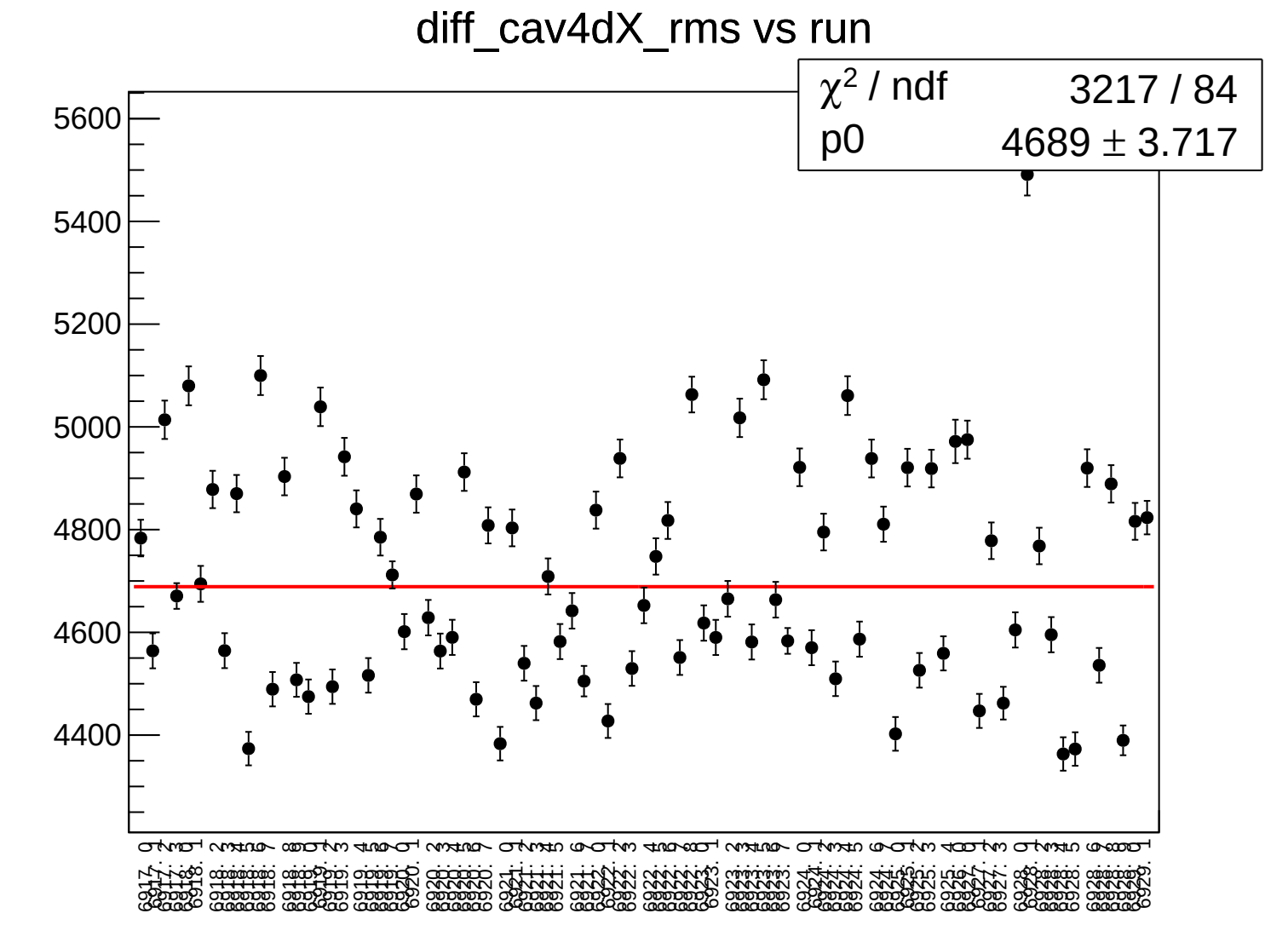

diff_cav4cY_mean vs run
χ² / ndf 72.41 / 84
p0 0.873 ± 0.5887
pull
Entries 85
Mean 165.1
Std Dev 155.3

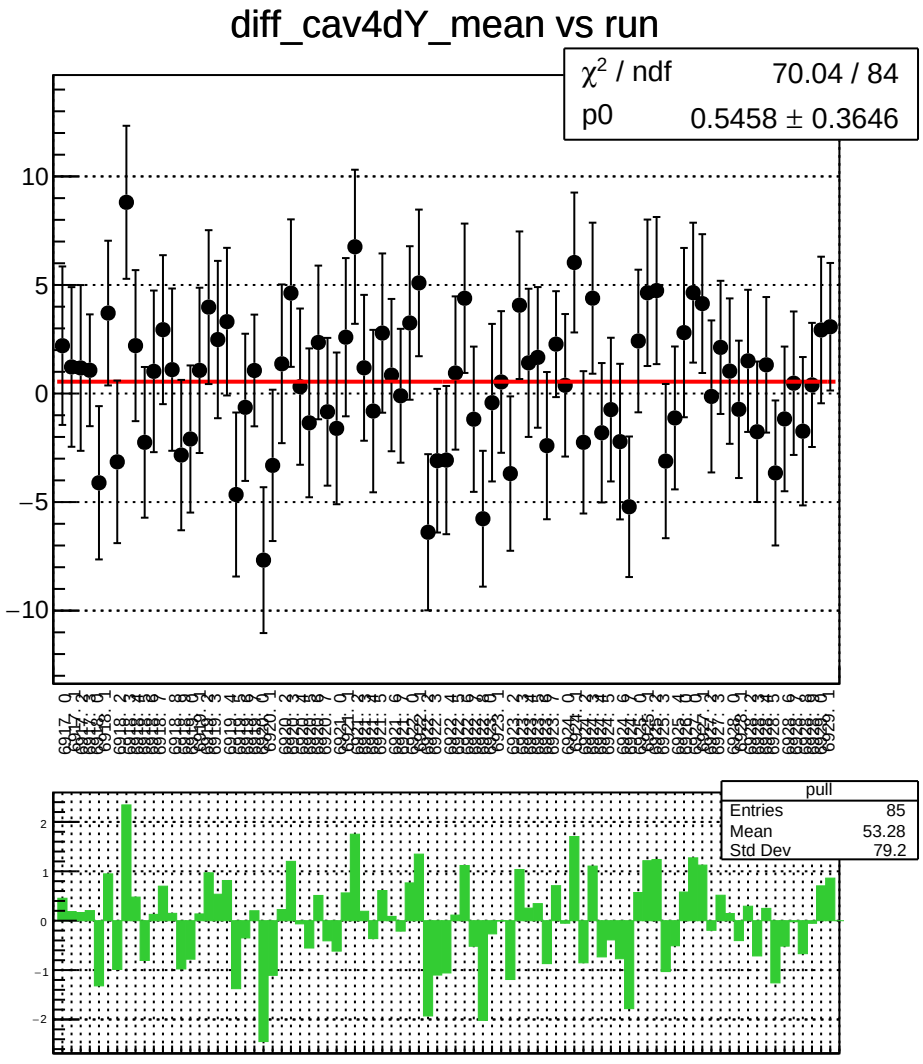

pull1D
Entries 85
Mean −0.00404
Std Dev 0.923

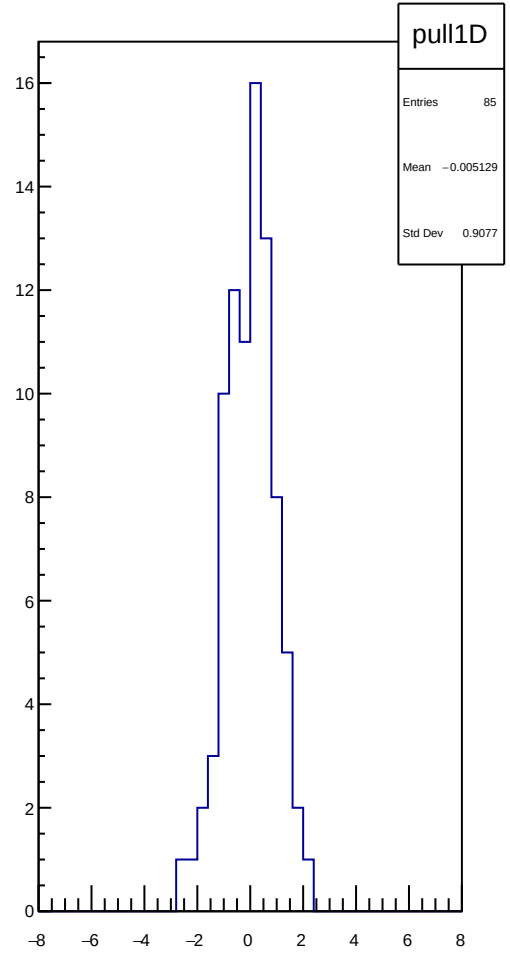

diff_cav4cY_rms vs run
χ² / ndf 2898 / 84
p0 525.2 ± 0.4163
580
560
540
520
500
480

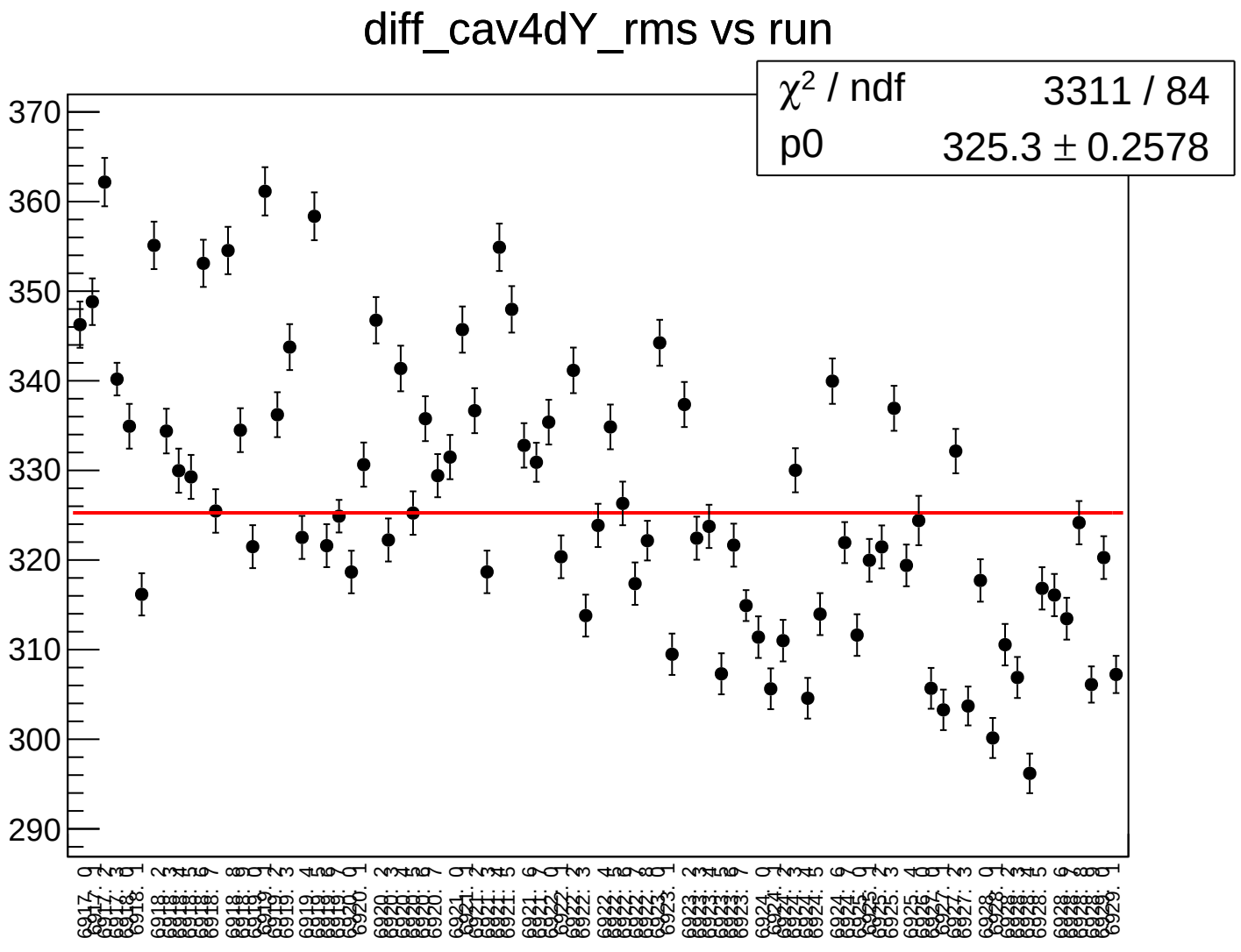

diff_cav4dX_mean vs run
χ² / ndf 93.21 / 84
p0 −13.2 ± 5.256
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 520.7
Std Dev 484.8
2
1
0
−1
−2

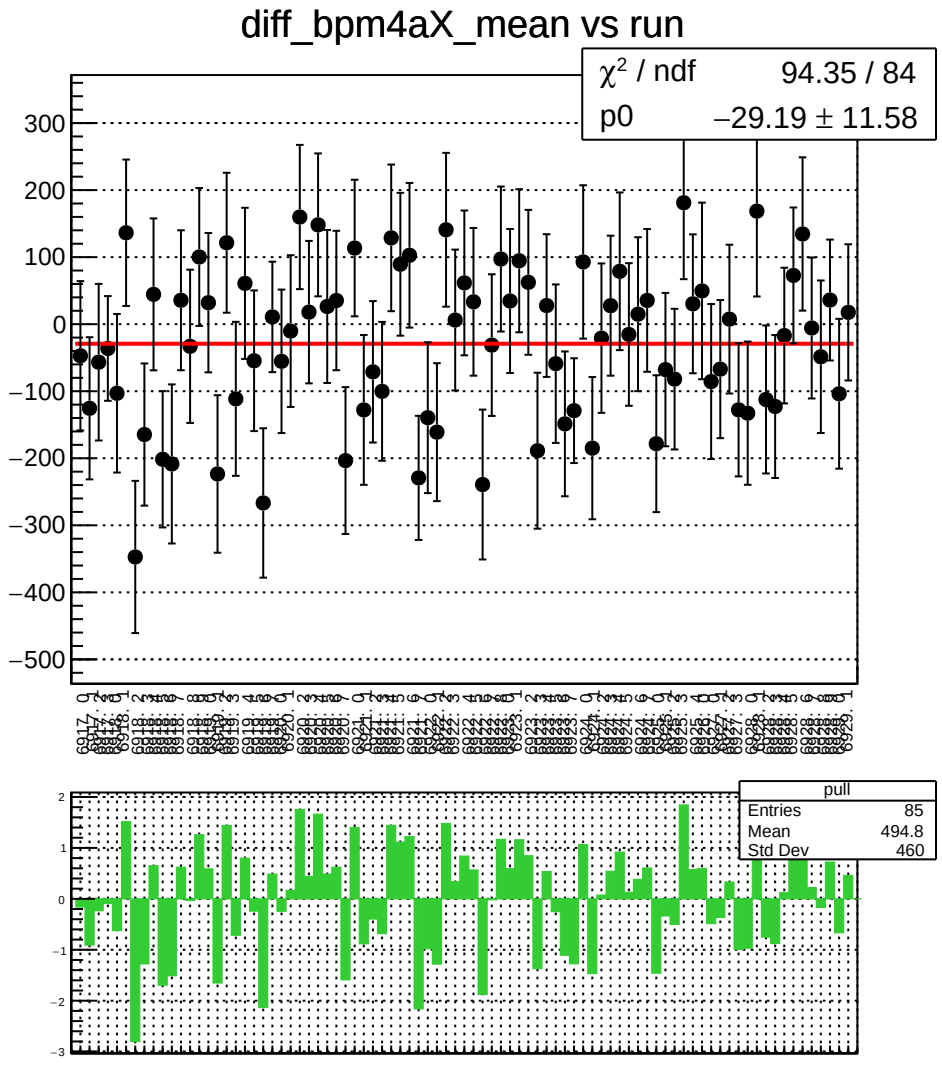

pull1D
Entries 85
Mean 0.006434
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

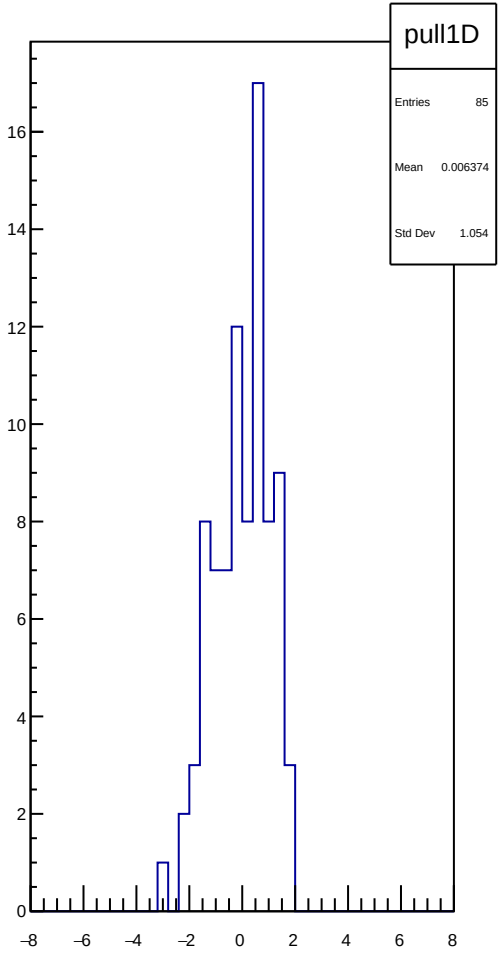

diff_cav4dX_rms vs run
χ^2 / ndf 3217 / 84
p0 4689 ± 3.717
5600
5400
5200
5000
4800
4600
4400

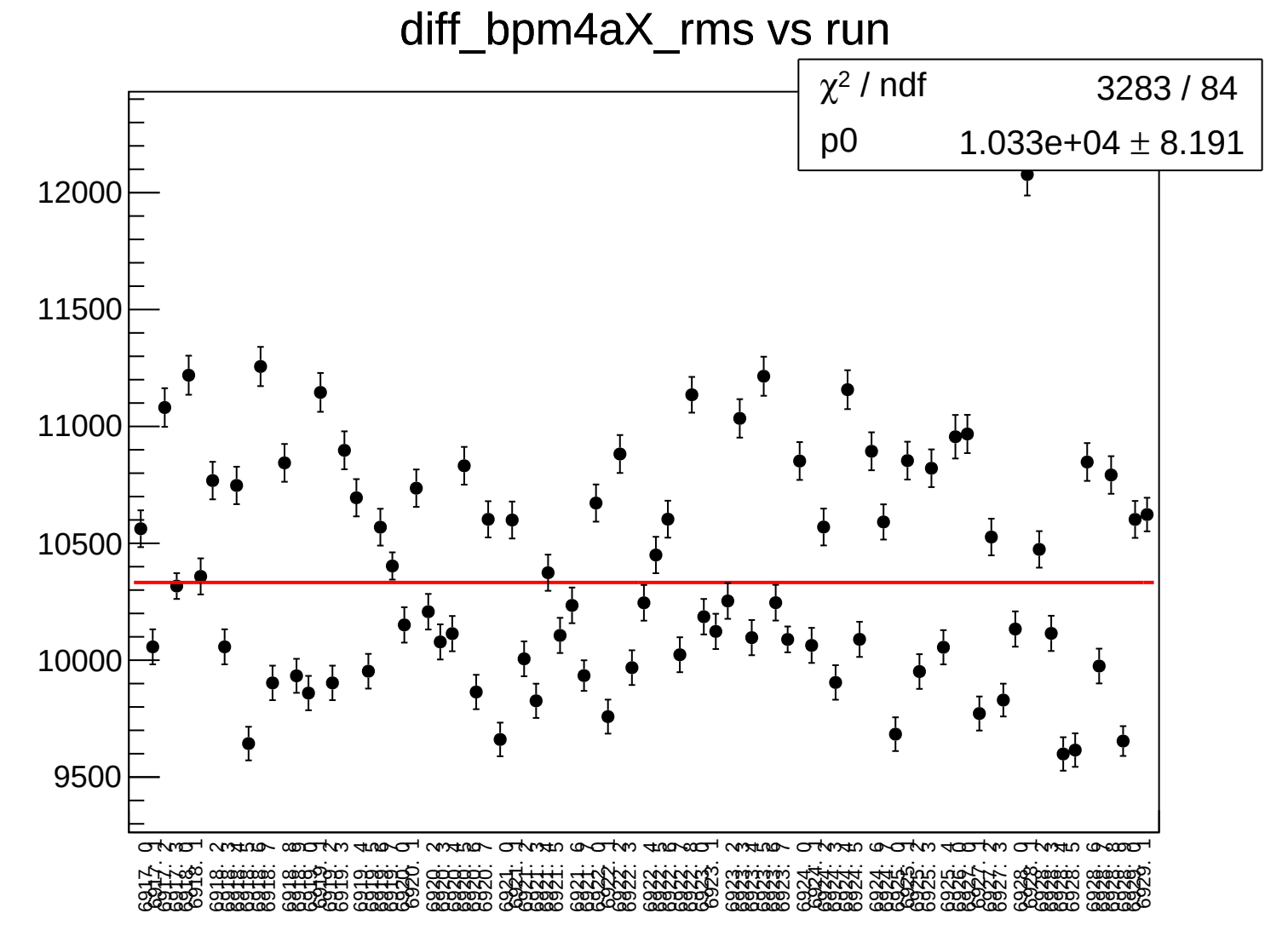

diff_cav4dY_mean vs run
χ^2 / ndf 70.04 / 84
p0 0.5458 ± 0.3646
pull
Entries 85
Mean 53.28
Std Dev 79.2

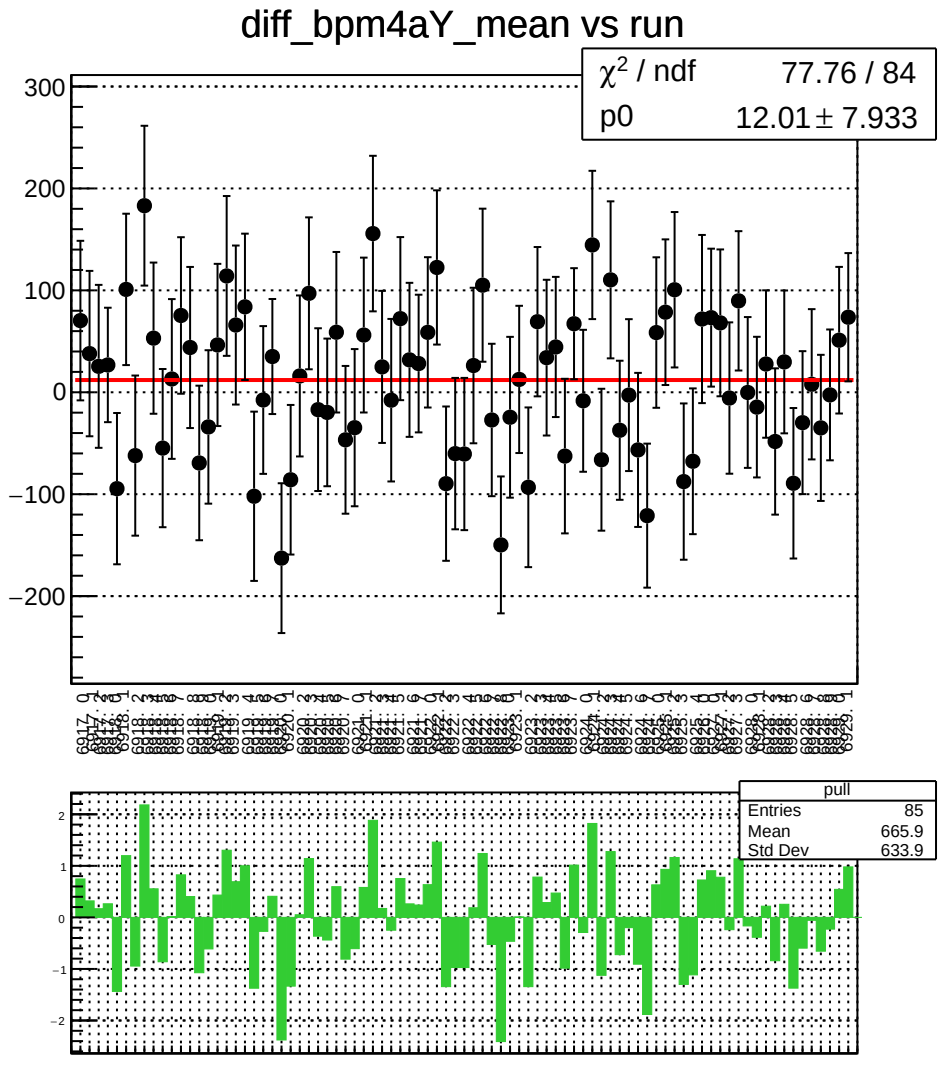

pull1D
Entries 85
Mean −0.005129
Std Dev 0.9077

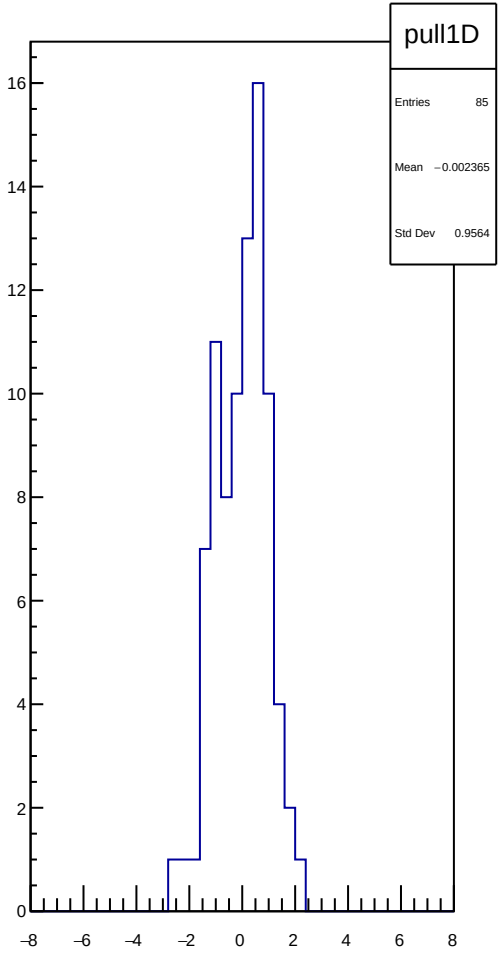

diff_cav4dY_rms vs run
χ² / ndf 3311 / 84
p0 325.3 ± 0.2578
370
360
350
340
330
320
310
300
290

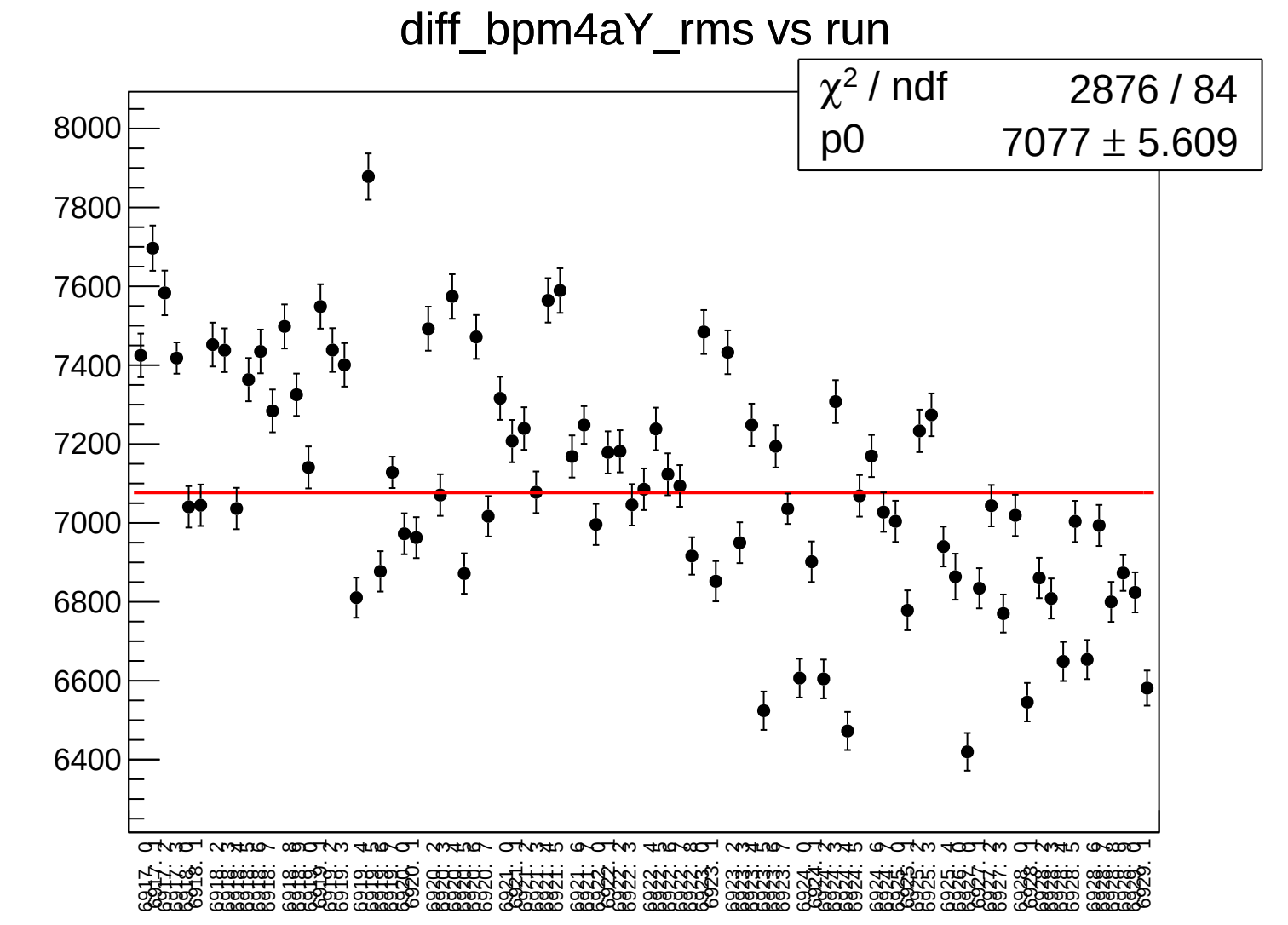

diff_bpm4aX_mean vs run
χ² / ndf 94.35 / 84
p0 −29.19 ± 11.58
pull
Entries 85
Mean 494.8
Std Dev 460

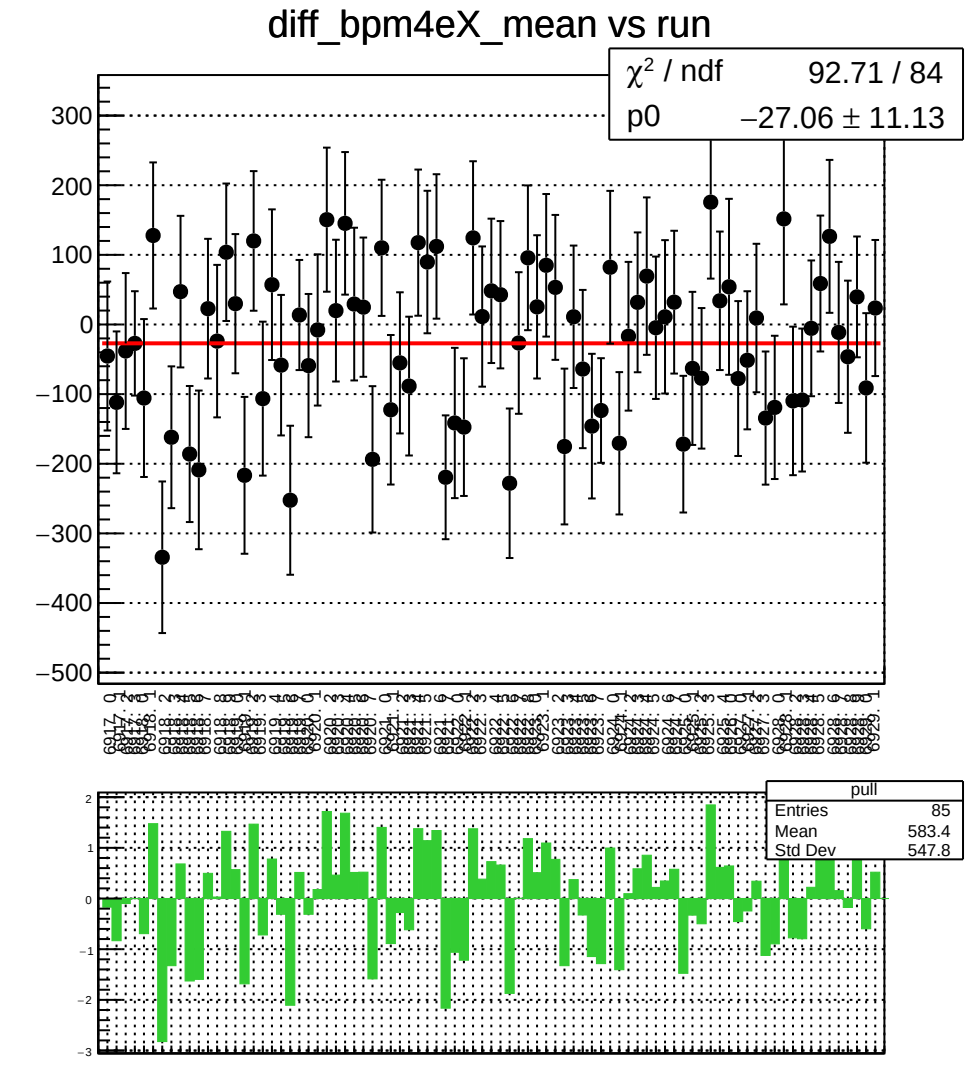

pull1D
Entries 85
Mean 0.006374
Std Dev 1.054

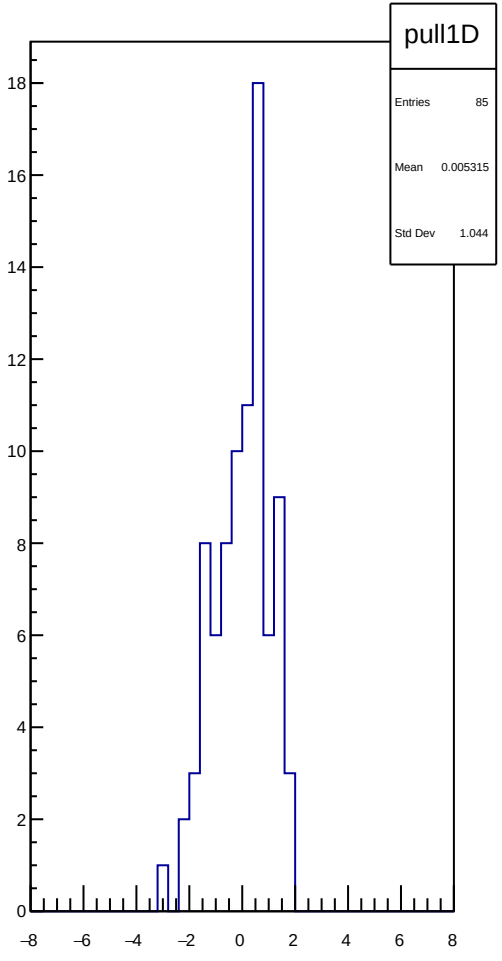

diff_bpm4aX_rms vs run
χ² / ndf 3283 / 84
p0 1.033e+04 ± 8.191
12000
11500
11000
10500
10000
9500

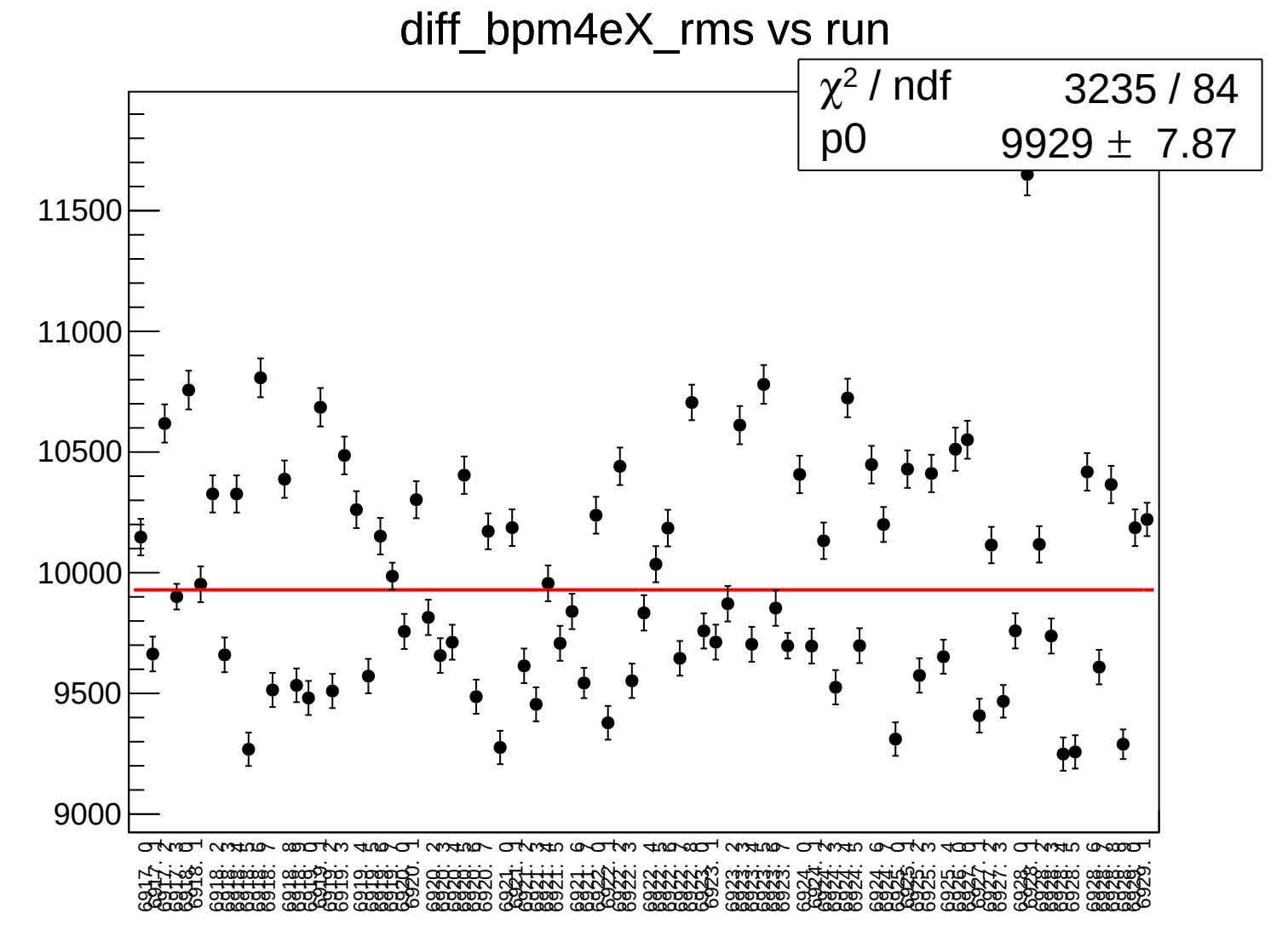

diff_bpm4aY_mean vs run
χ² / ndf 77.76 / 84
p0 12.01 ± 7.933
pull
Entries 85
Mean 665.9
Std Dev 633.9

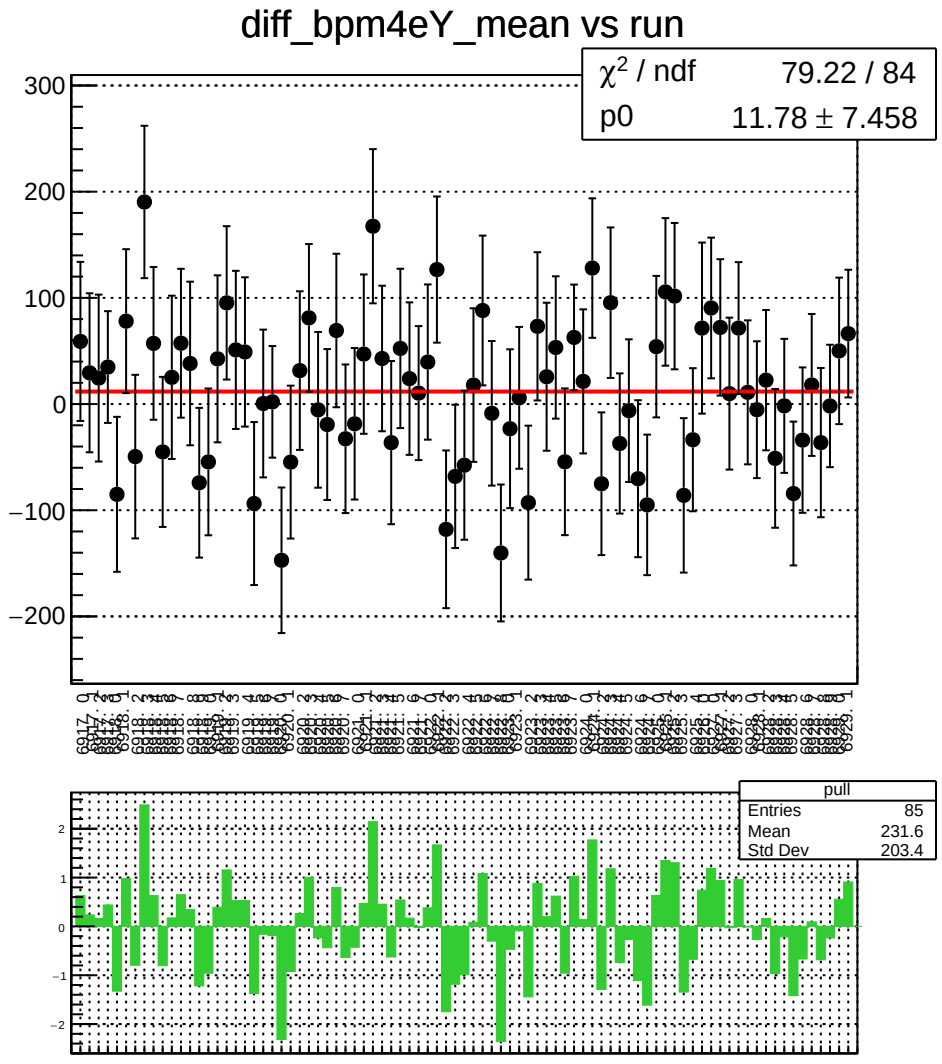

pull1D
Entries 85
Mean −0.002365
Std Dev 0.9564

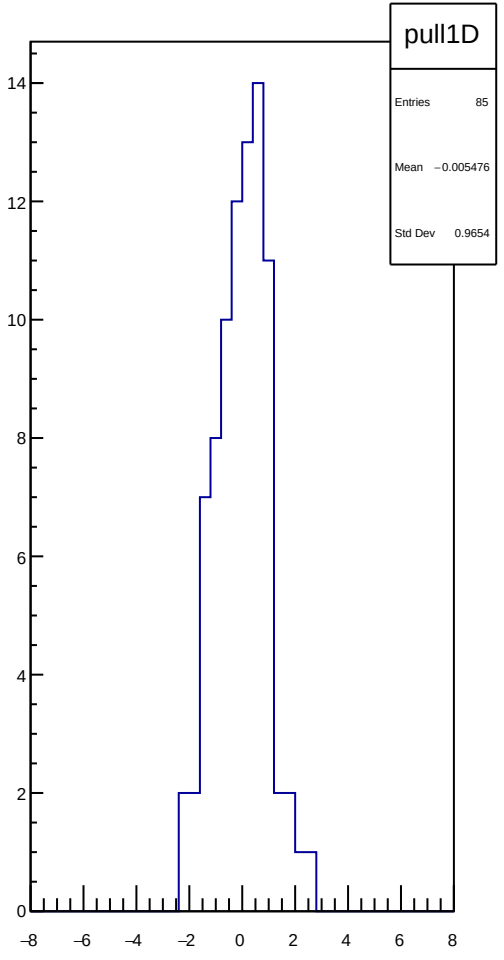

diff_bpm4aY_rms vs run
χ^2 / ndf 2876 / 84
p0 7077 ± 5.609
8000
7800
7600
7400
7200
7000
6800
6600
6400

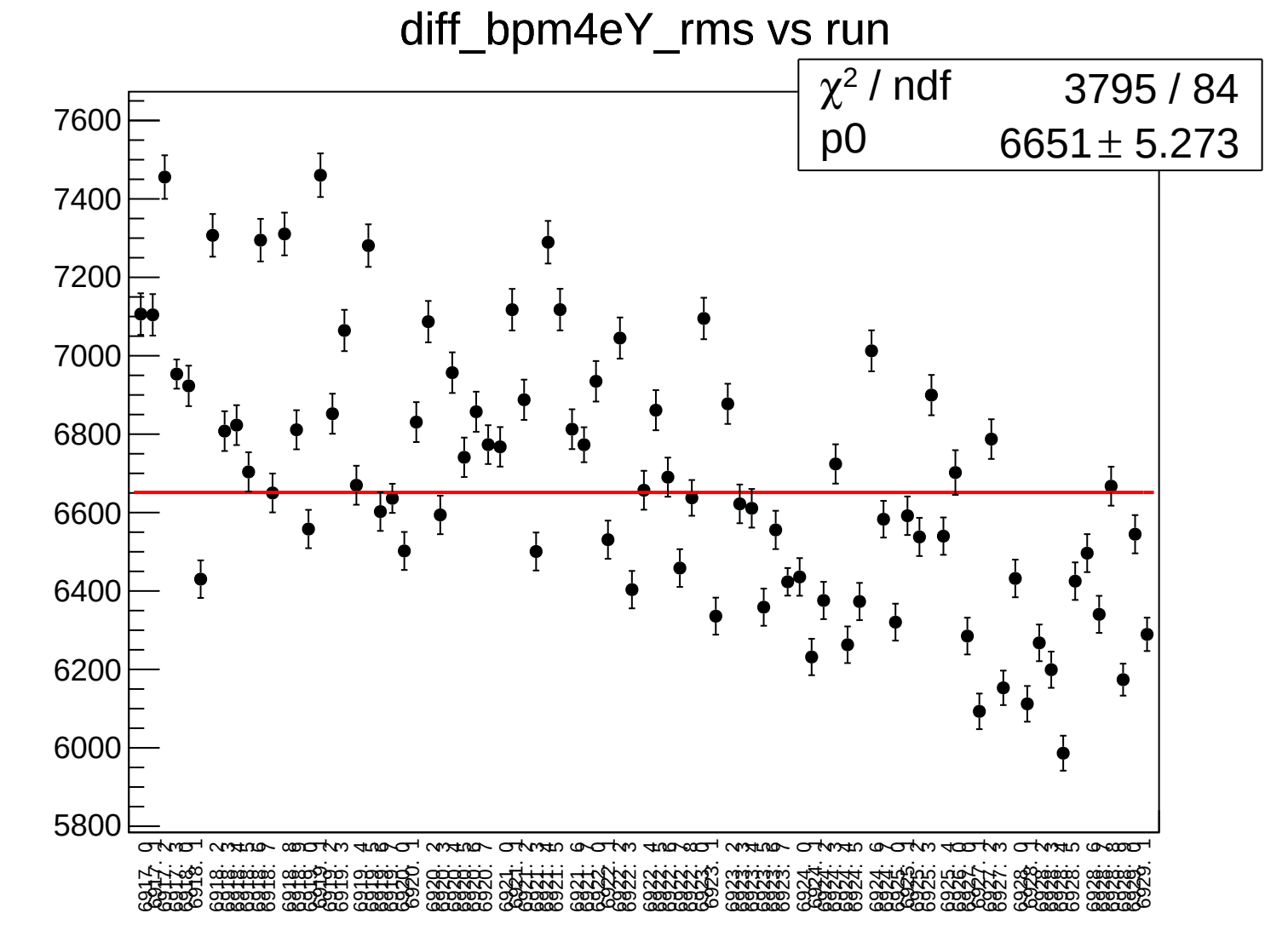

diff_bpm4eX_mean vs run
χ² / ndf 92.71 / 84
p0 −27.06 ± 11.13
pull
Entries 85
Mean 583.4
Std Dev 547.8

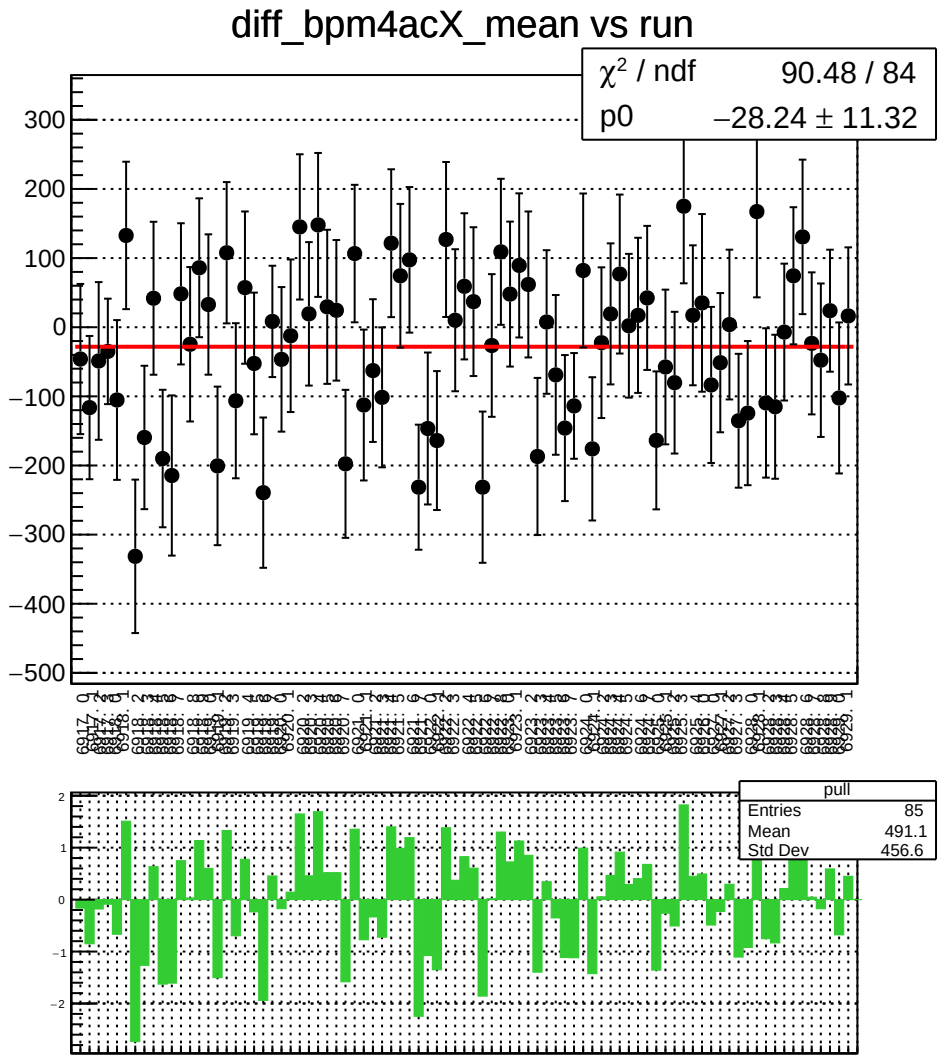

pull1D
Entries 85
Mean 0.005315
Std Dev 1.044

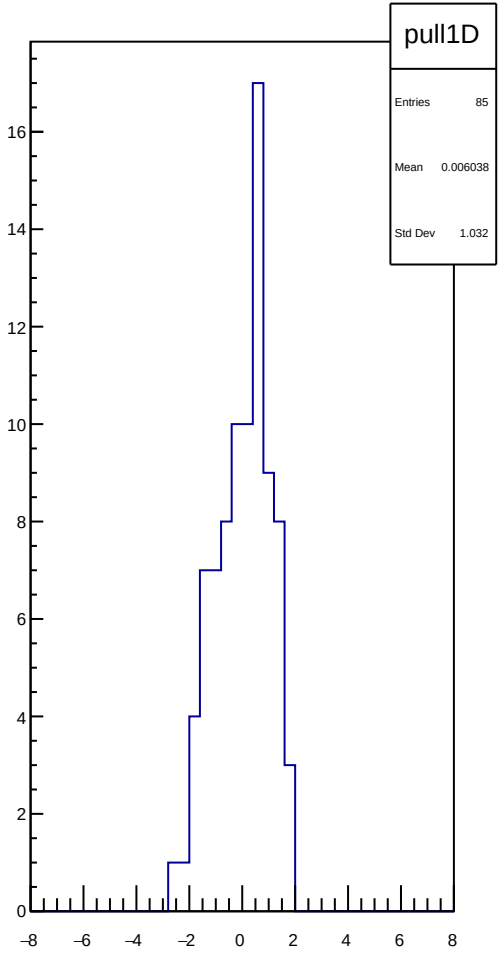

diff_bpm4eX_rms vs run
χ² / ndf 3235 / 84
p0 9929 ± 7.87
11500
11000
10500
10000
9500
9000

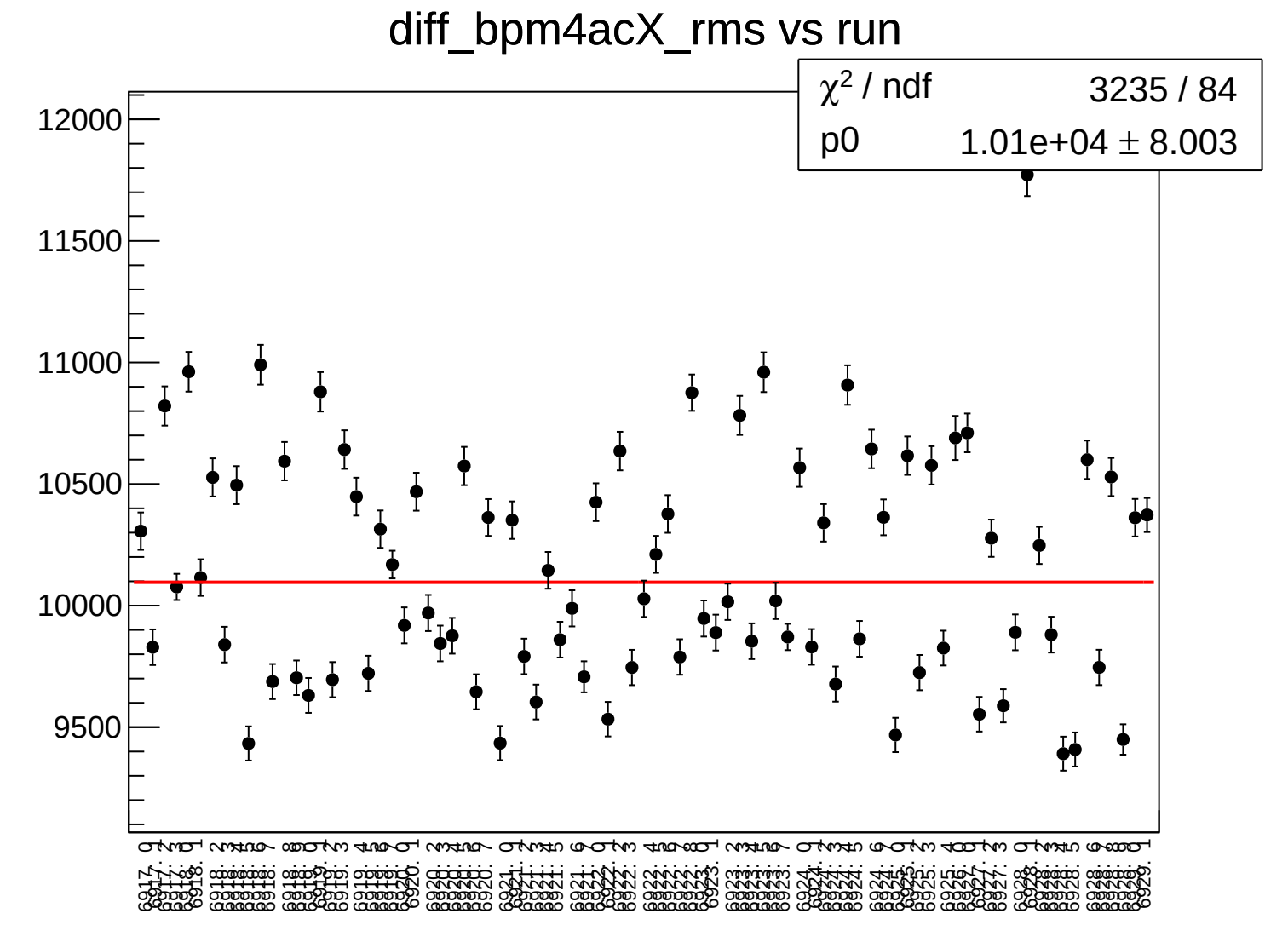

diff_bpm4eY_mean vs run
χ² / ndf 79.22 / 84
p0 11.78 ± 7.458
pull
Entries 85
Mean 231.6
Std Dev 203.4

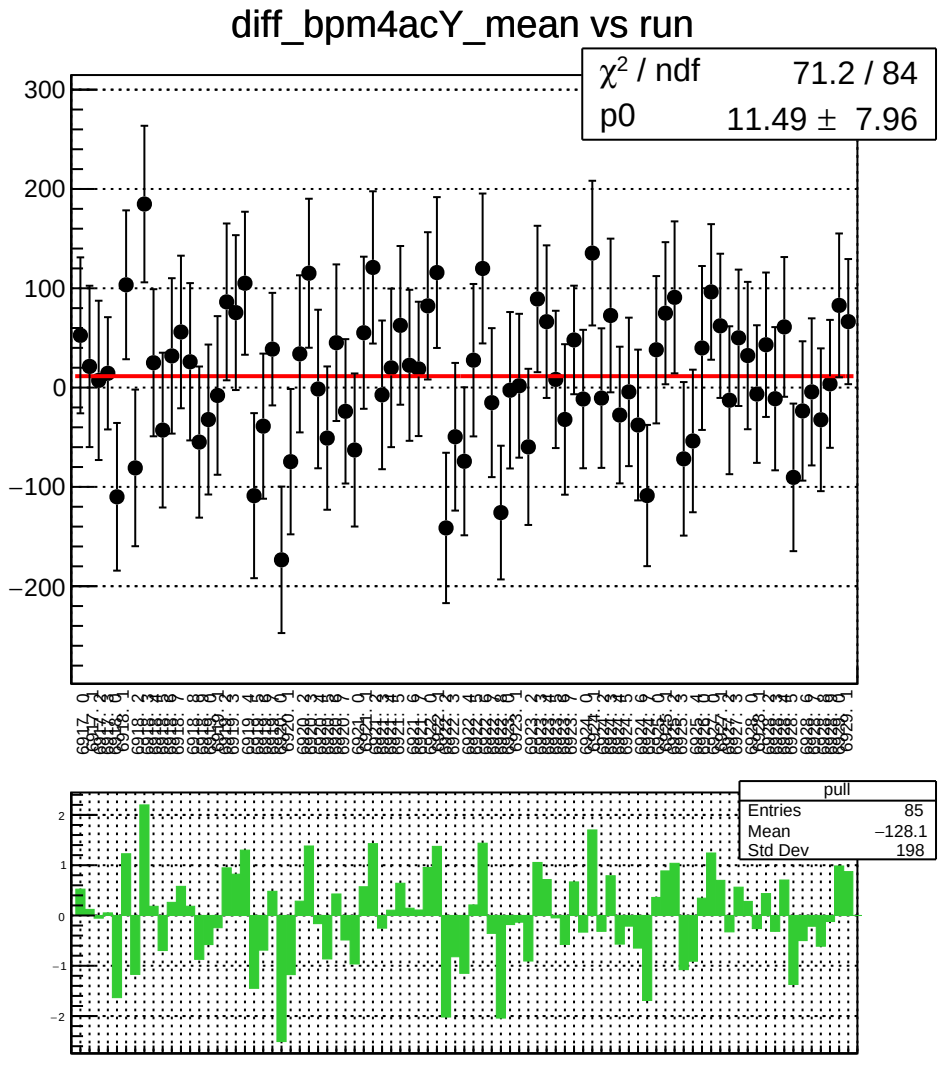

pull1D
Entries 85
Mean −0.005476
Std Dev 0.9654

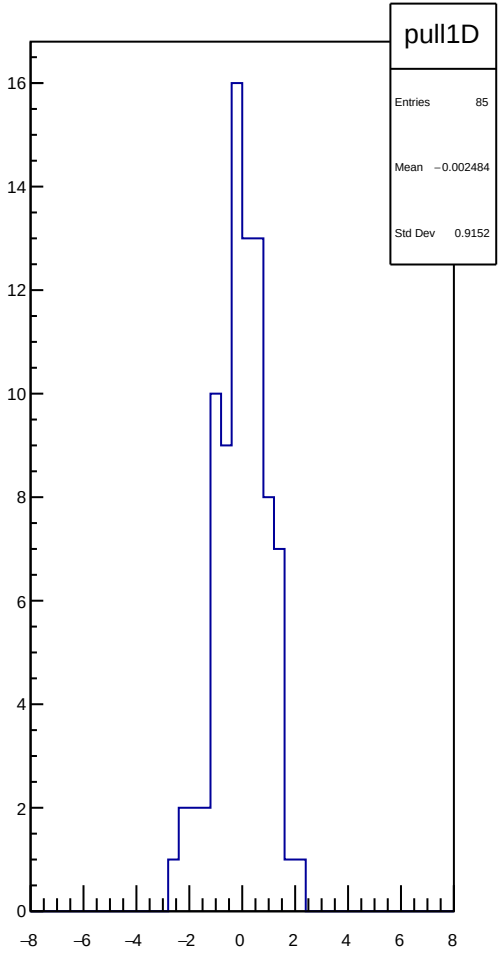

diff_bpm4eY_rms vs run
χ² / ndf 3795 / 84
p0 6651 ± 5.273
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

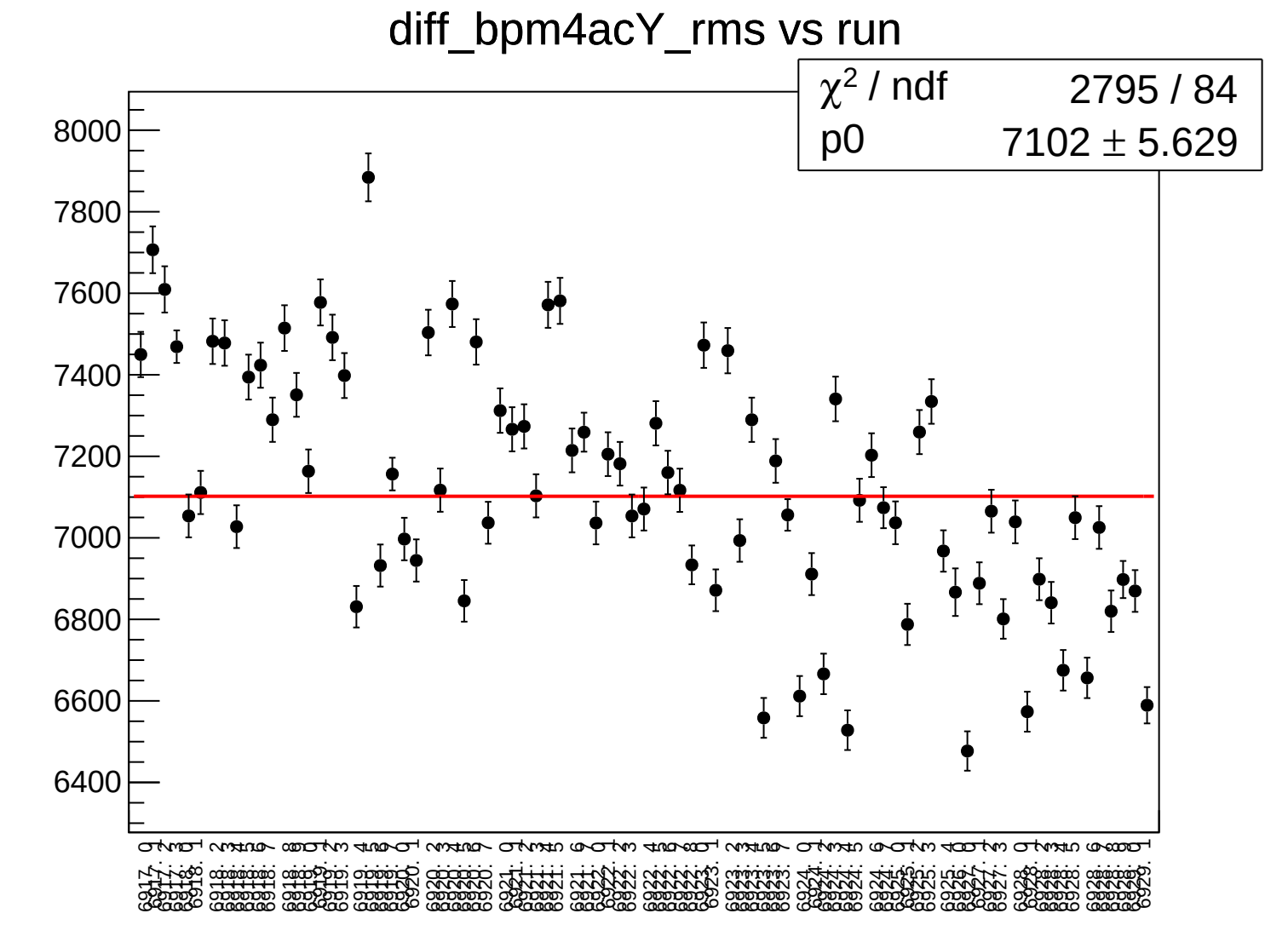

diff_bpm4acX_mean vs run
χ² / ndf 90.48 / 84
p0 −28.24 ± 11.32
pull
Entries 85
Mean 491.1
Std Dev 456.6

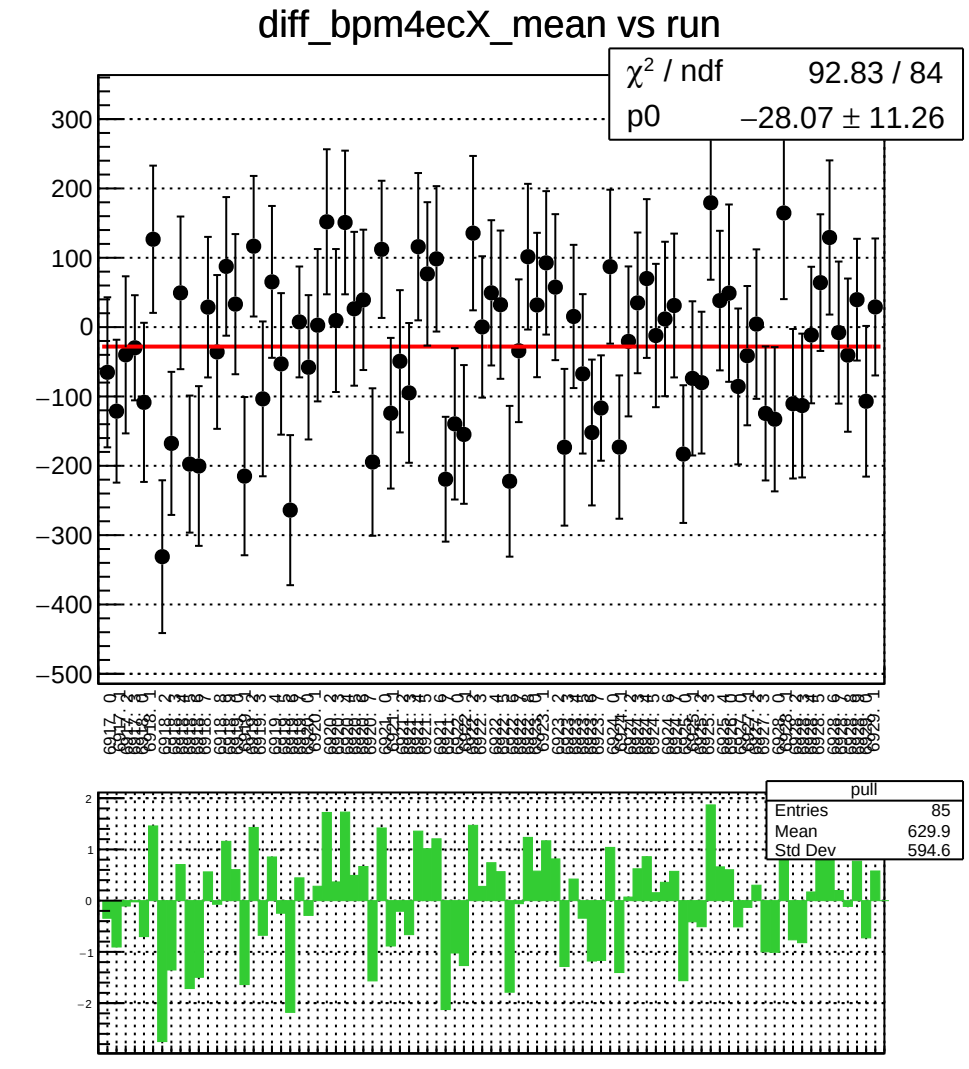

pull1D
Entries 85
Mean 0.006038
Std Dev 1.032

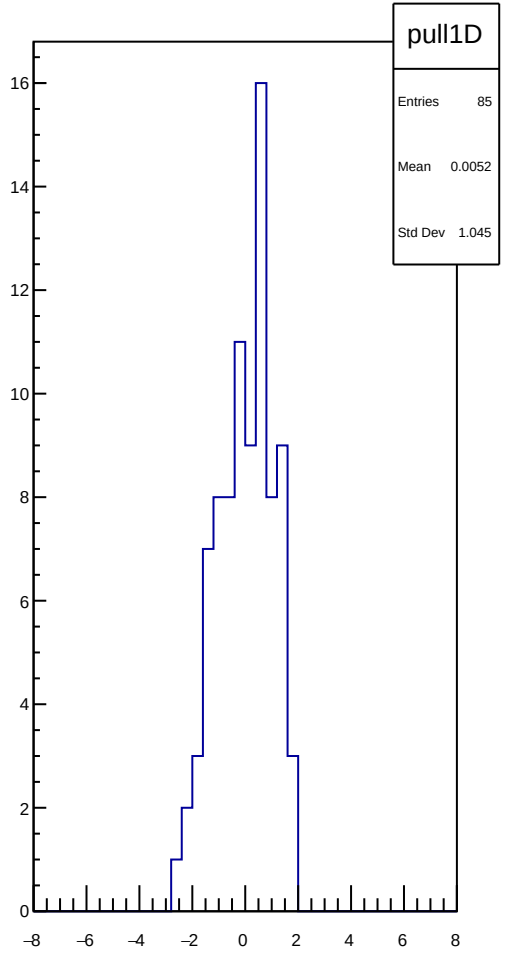

diff_bpm4acX_rms vs run
χ² / ndf 3235 / 84
p0 1.01e+04 ± 8.003
12000
11500
11000
10500
10000
9500

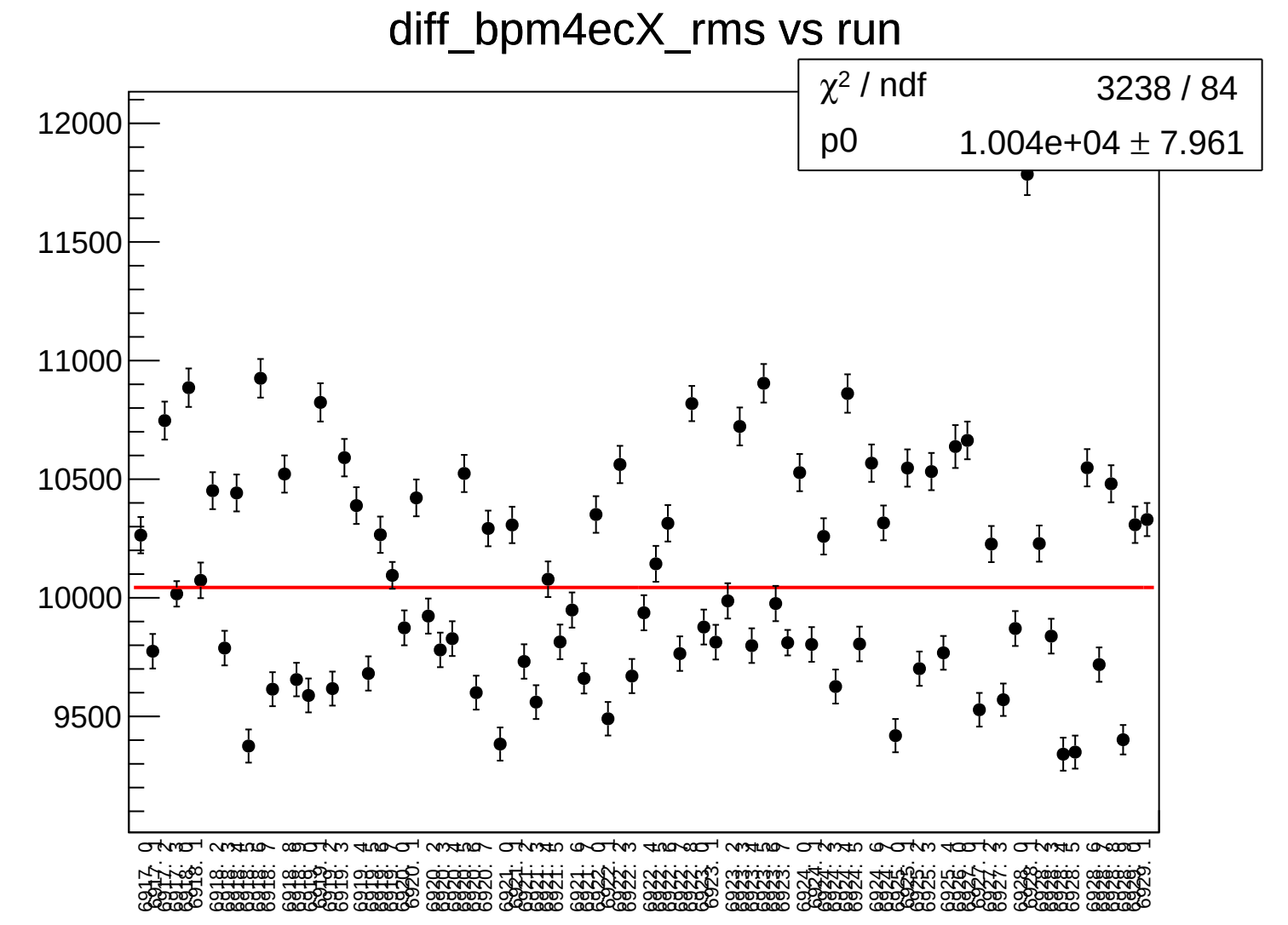

diff_bpm4acY_mean vs run
χ² / ndf 71.2 / 84
p0 11.49 ± 7.96
pull
Entries 85
Mean −128.1
Std Dev 198

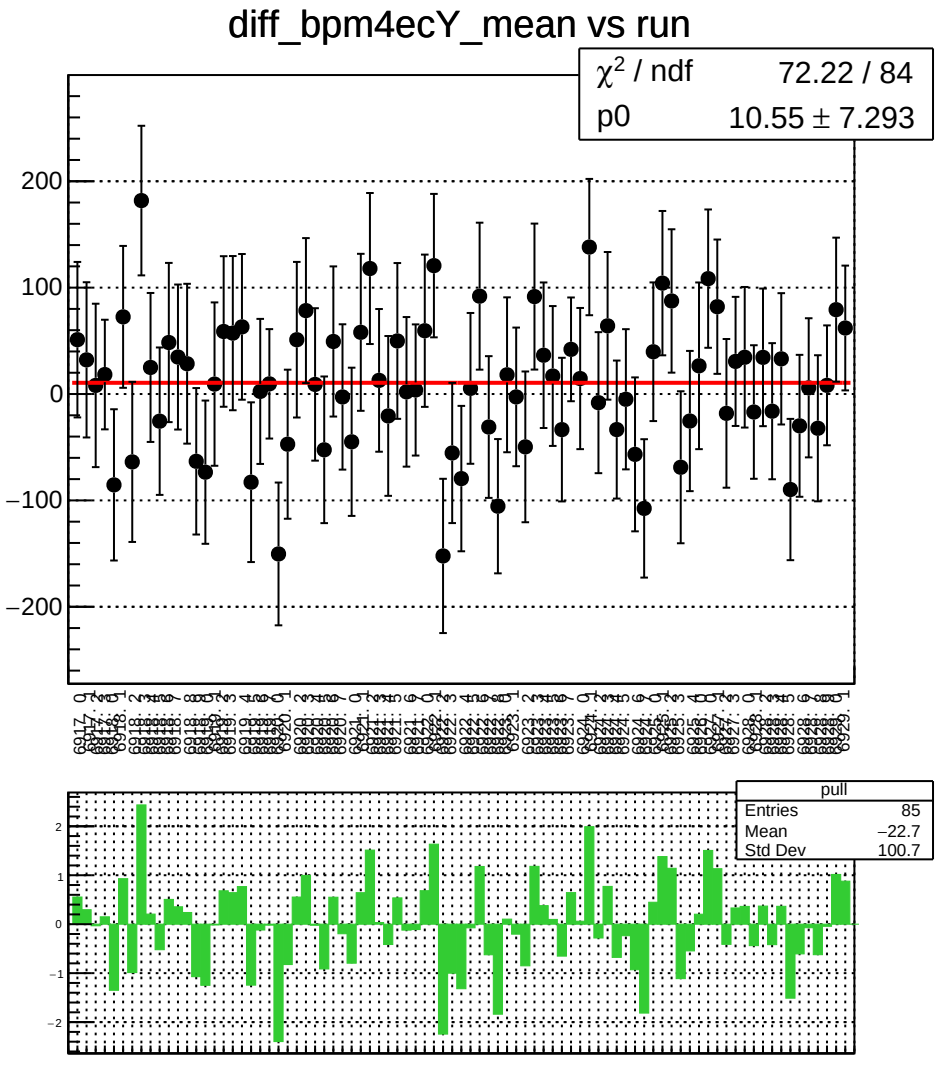

pull1D
Entries 85
Mean −0.002484
Std Dev 0.9152

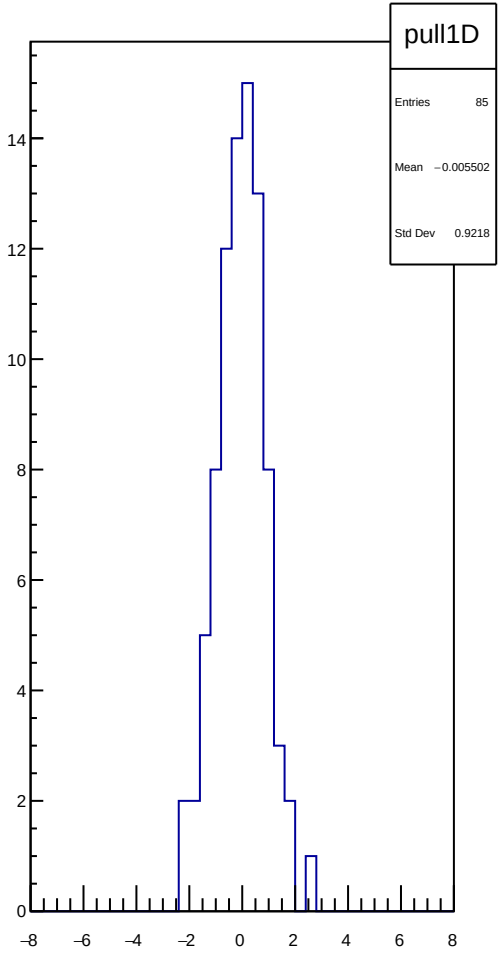

diff_bpm4acY_rms vs run
χ² / ndf 2795 / 84
p0 7102 ± 5.629
8000
7800
7600
7400
7200
7000
6800
6600
6400

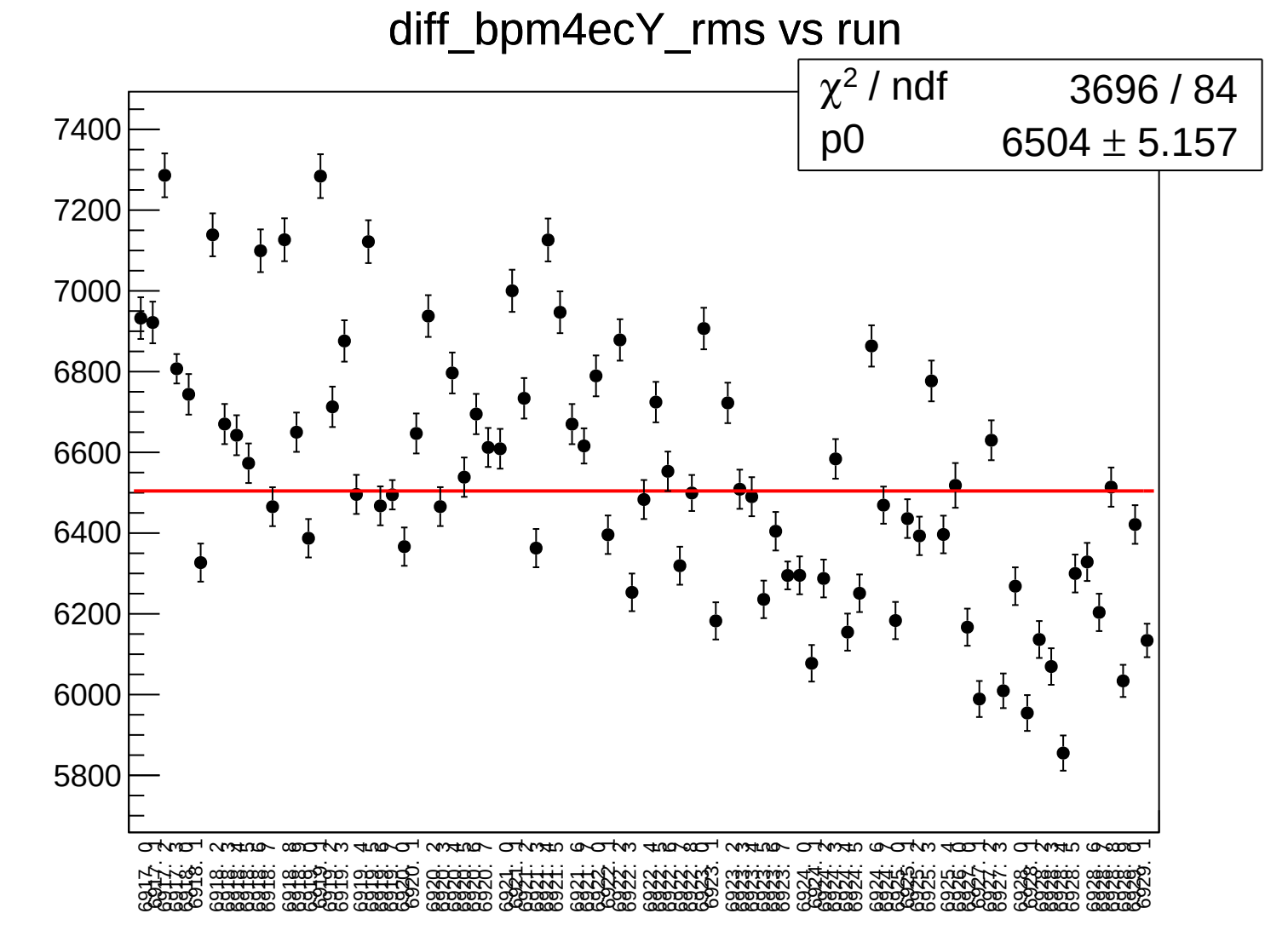

diff_bpm4ecX_mean vs run
χ² / ndf 92.83 / 84
p0 −28.07 ± 11.26
pull
Entries 85
Mean 629.9
Std Dev 594.6

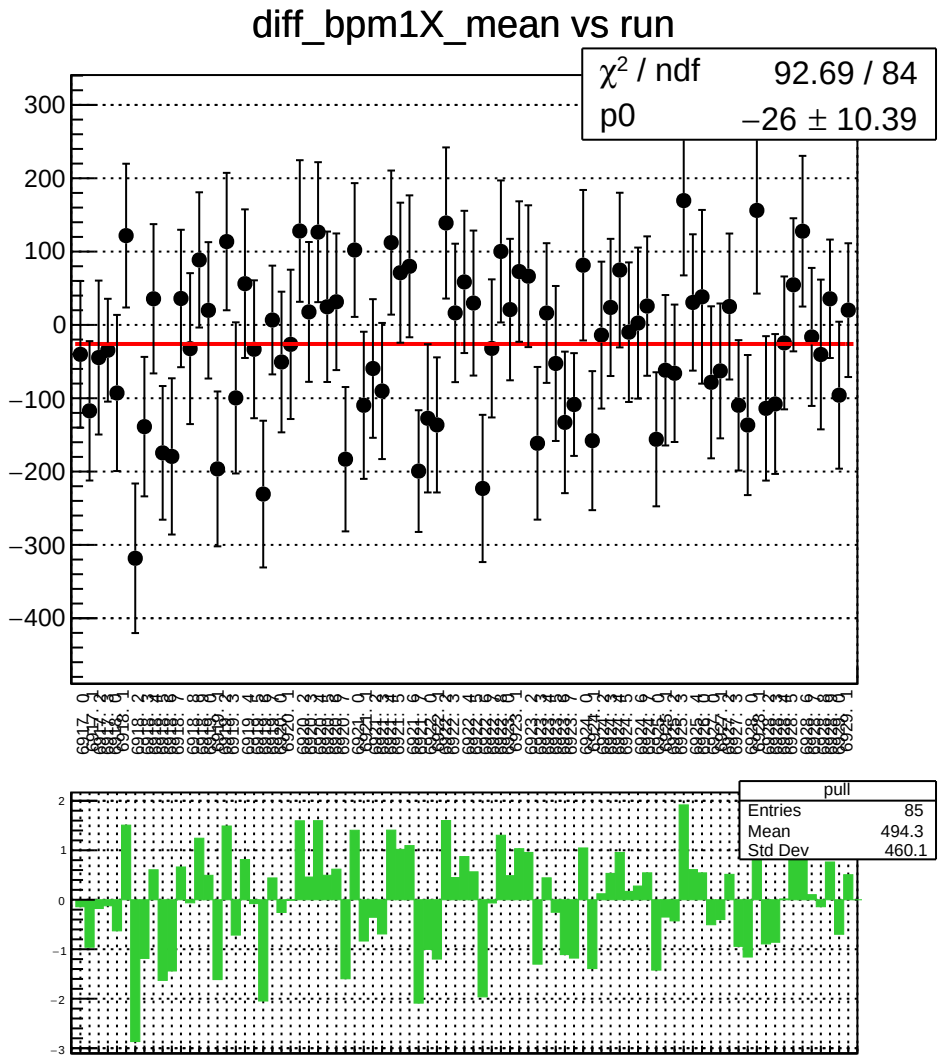

pull1D
Entries 85
Mean 0.0052
Std Dev 1.045

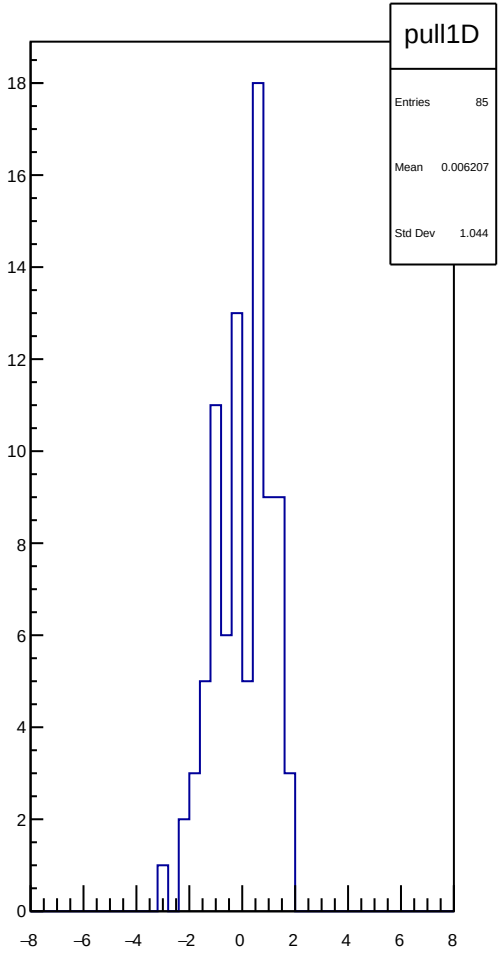

diff_bpm4ecX_rms vs run
χ² / ndf 3238 / 84
p0 1.004e+04 ± 7.961
12000
11500
11000
10500
10000
9500

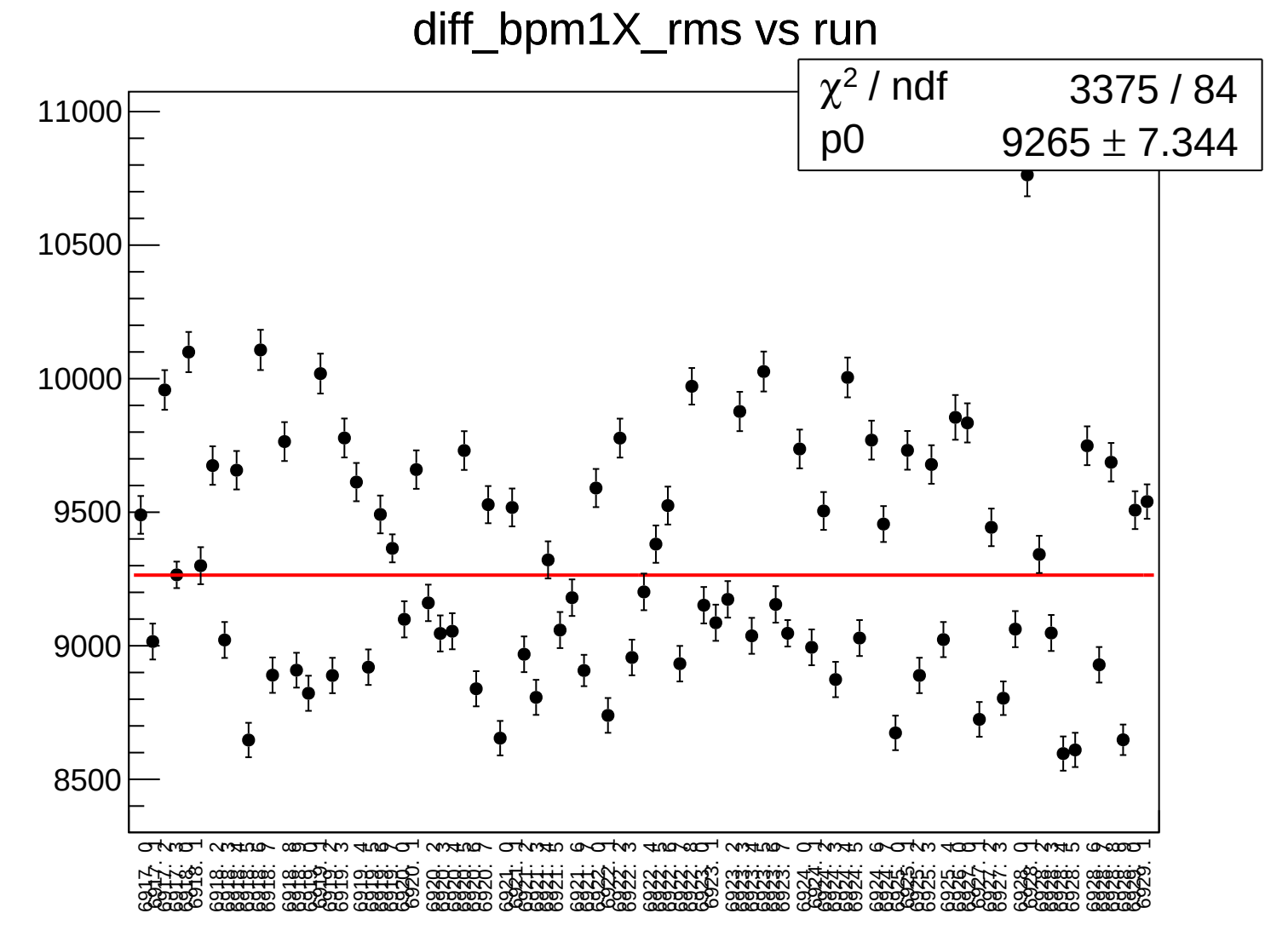

diff_bpm4ecY_mean vs run
χ² / ndf 72.22 / 84
p0 10.55 ± 7.293
200
100
0
−100
−200
pull
Entries 85
Mean −22.7
Std Dev 100.7
2
1
0
−1
−2

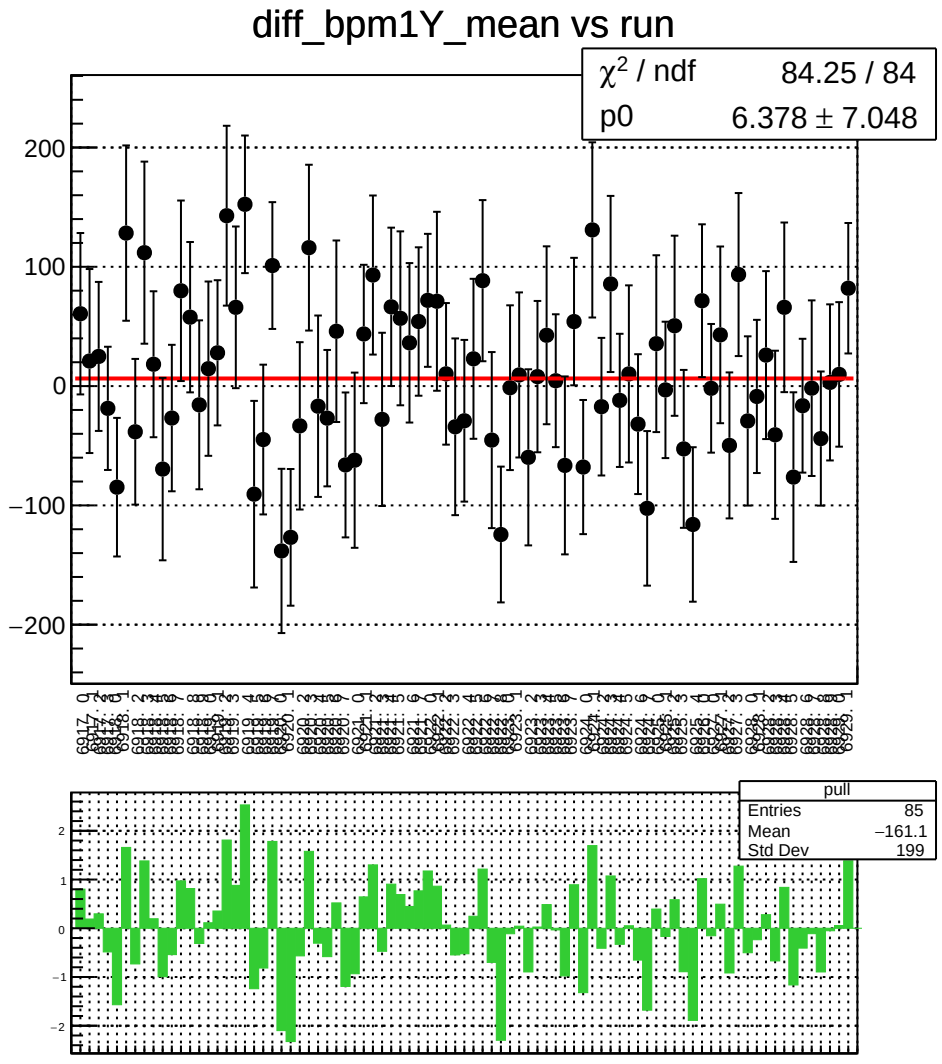

pull1D
Entries 85
Mean −0.005502
Std Dev 0.9218
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

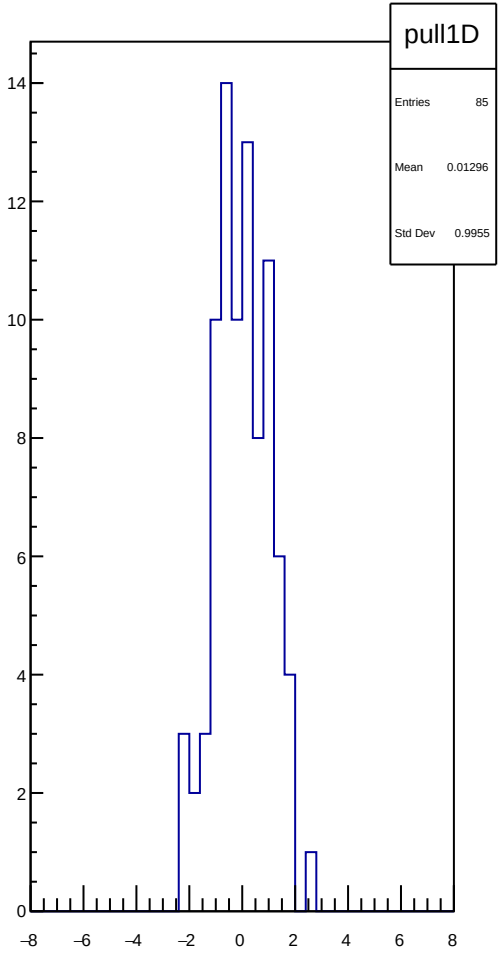

diff_bpm4ecY_rms vs run
χ^2 / ndf 3696 / 84
p0 6504 ± 5.157
7400
7200
7000
6800
6600
6400
6200
6000
5800

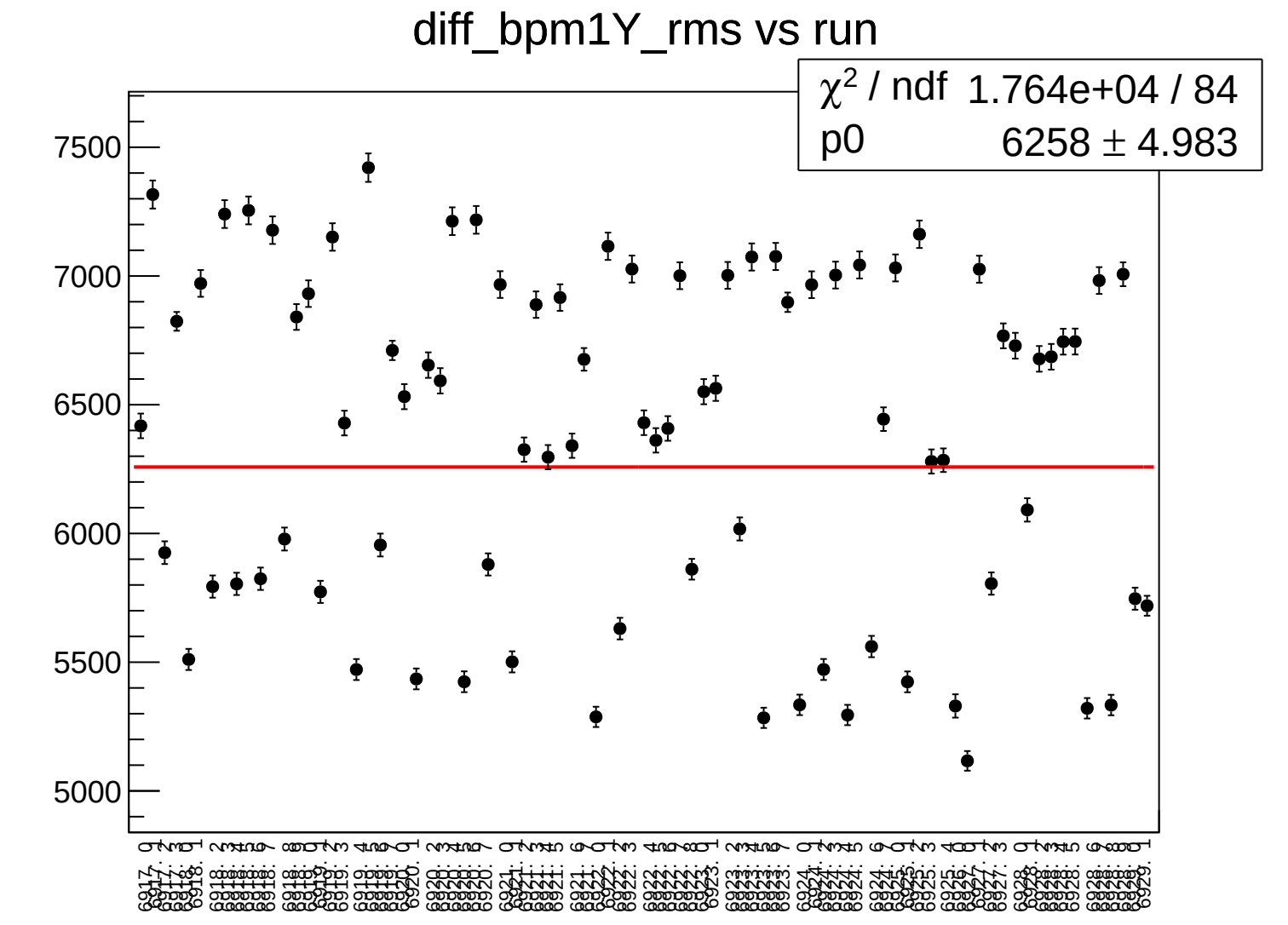

diff_bpm1X_mean vs run
χ² / ndf 92.69 / 84
p0 −26 ± 10.39
pull
Entries 85
Mean 494.3
Std Dev 460.1

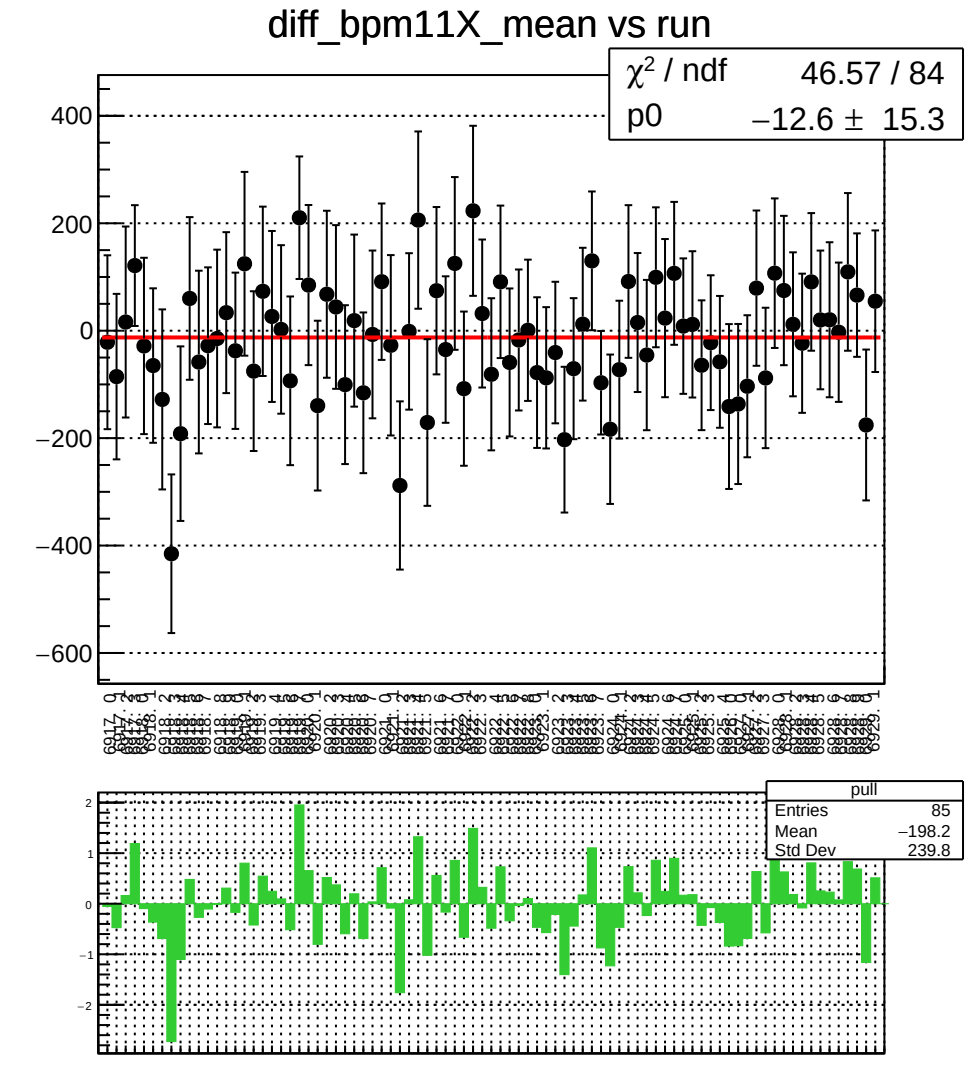

pull1D
Entries 85
Mean 0.006207
Std Dev 1.044

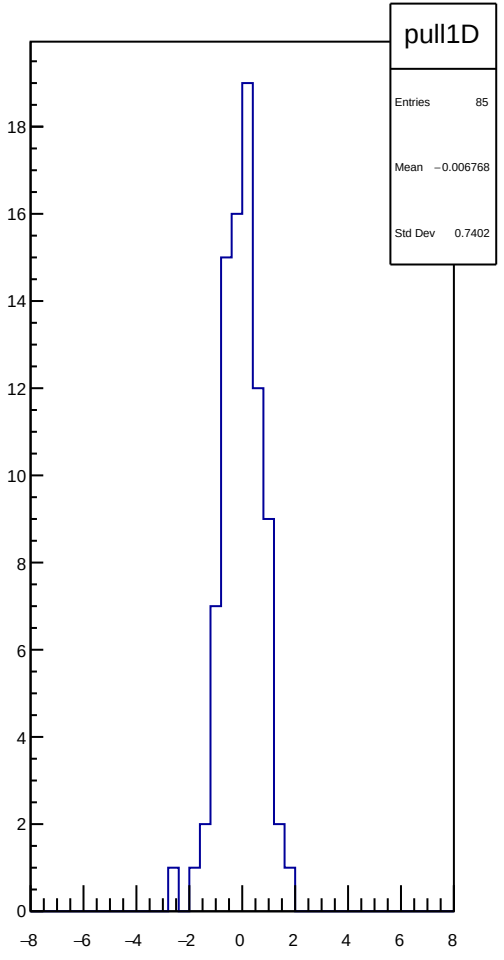

diff_bpm1X_rms vs run
χ² / ndf 3375 / 84
p0 9265 ± 7.344
11000
10500
10000
9500
9000
8500

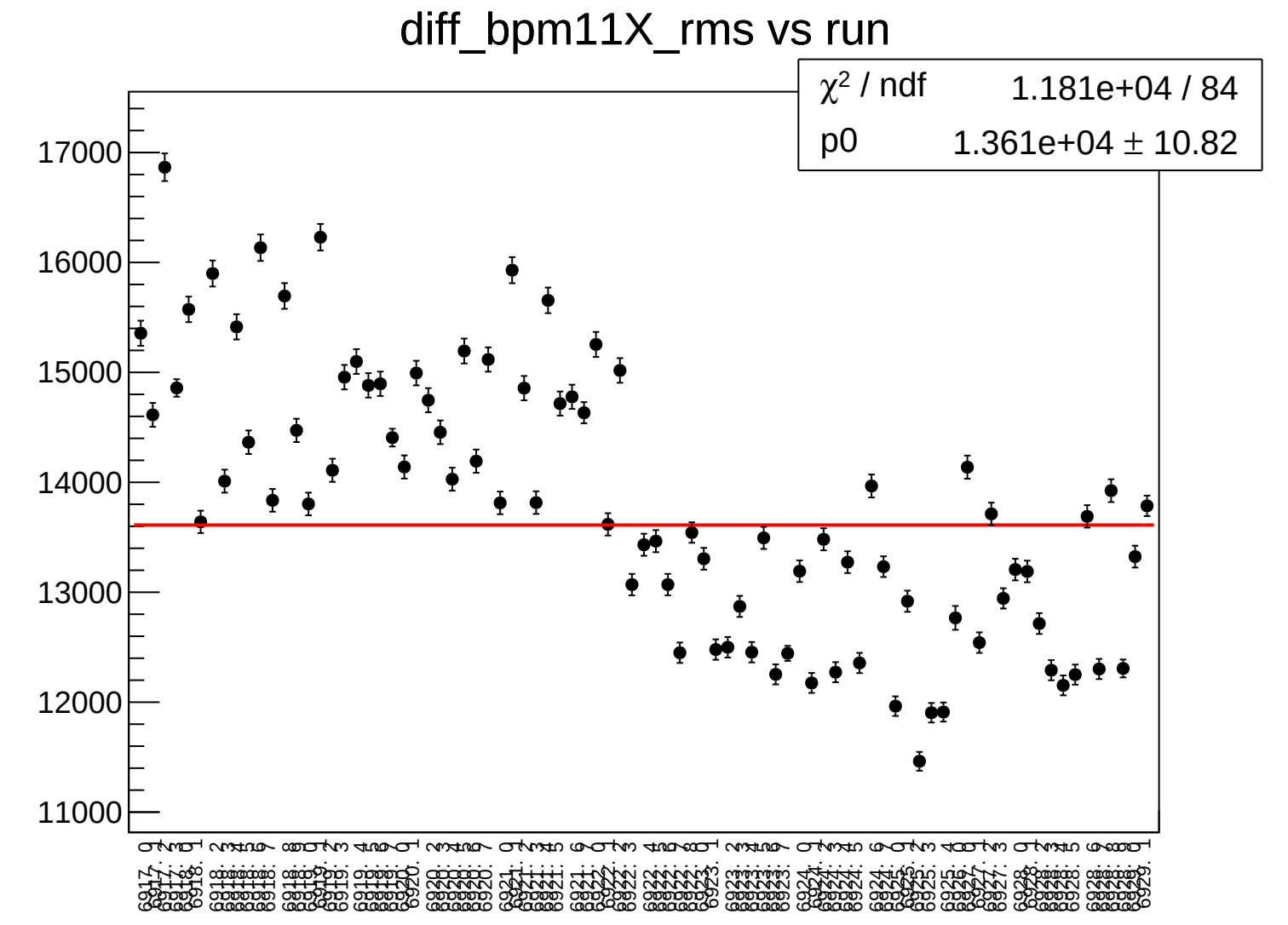

diff_bpm1Y_mean vs run
χ² / ndf 84.25 / 84
p0 6.378 ± 7.048
200
100
0
−100
−200
pull
Entries 85
Mean −161.1
Std Dev 199
2
1
0
−1
−2

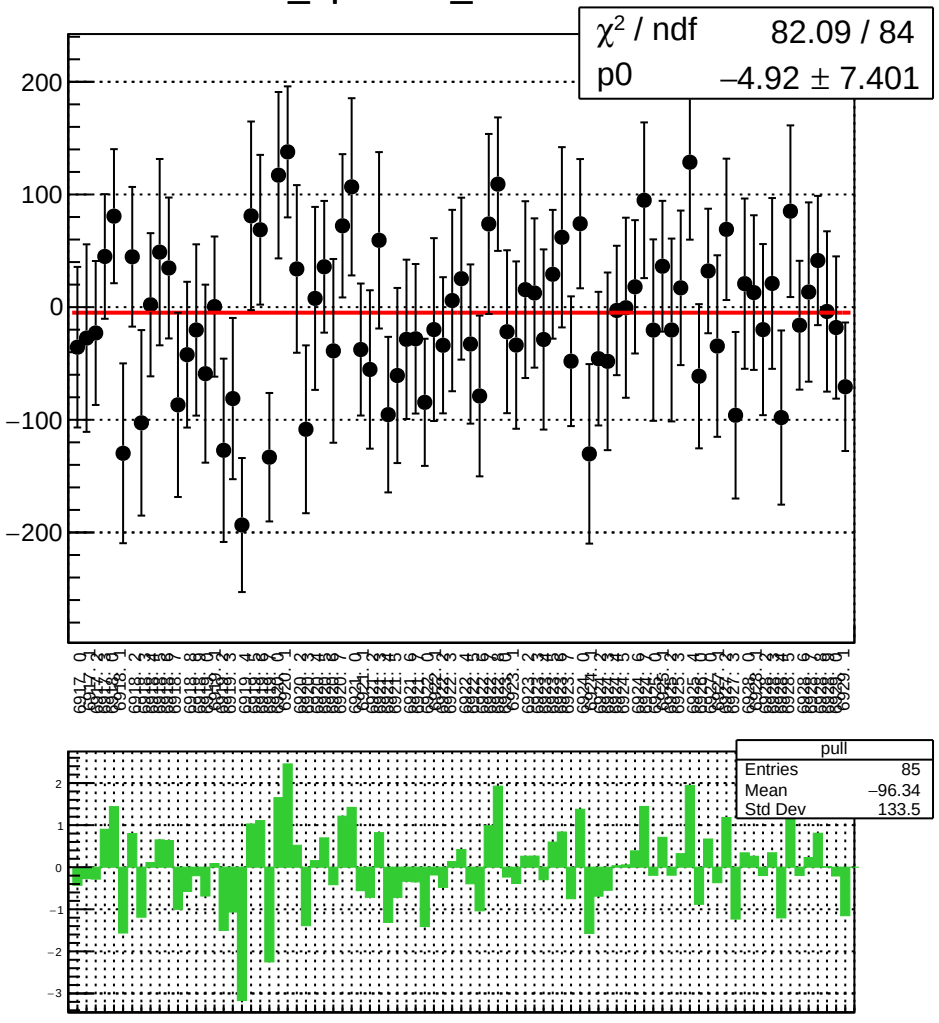

pull1D
Entries 85
Mean 0.01296
Std Dev 0.9955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

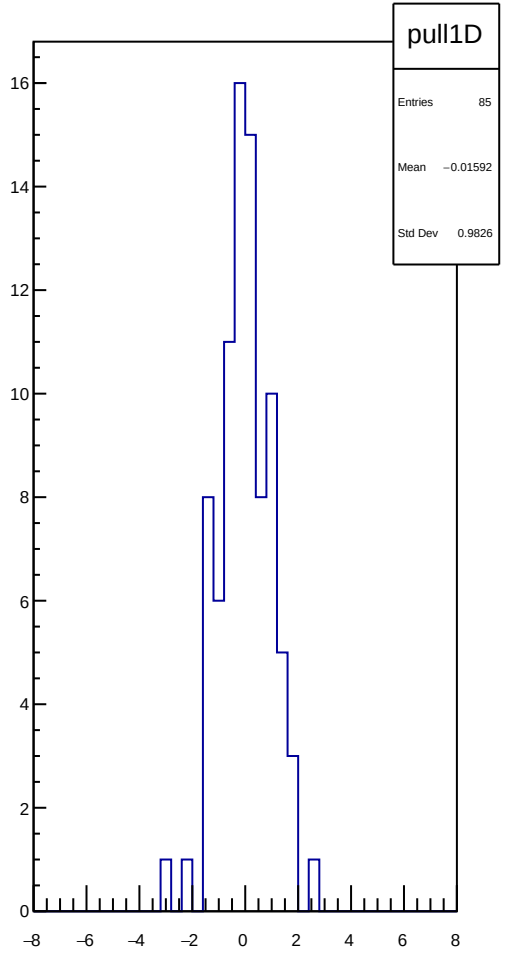

diff_bpm1Y_rms vs run
χ² / ndf 1.764e+04 / 84
p0 6258 ± 4.983
7500
7000
6500
6000
5500
5000

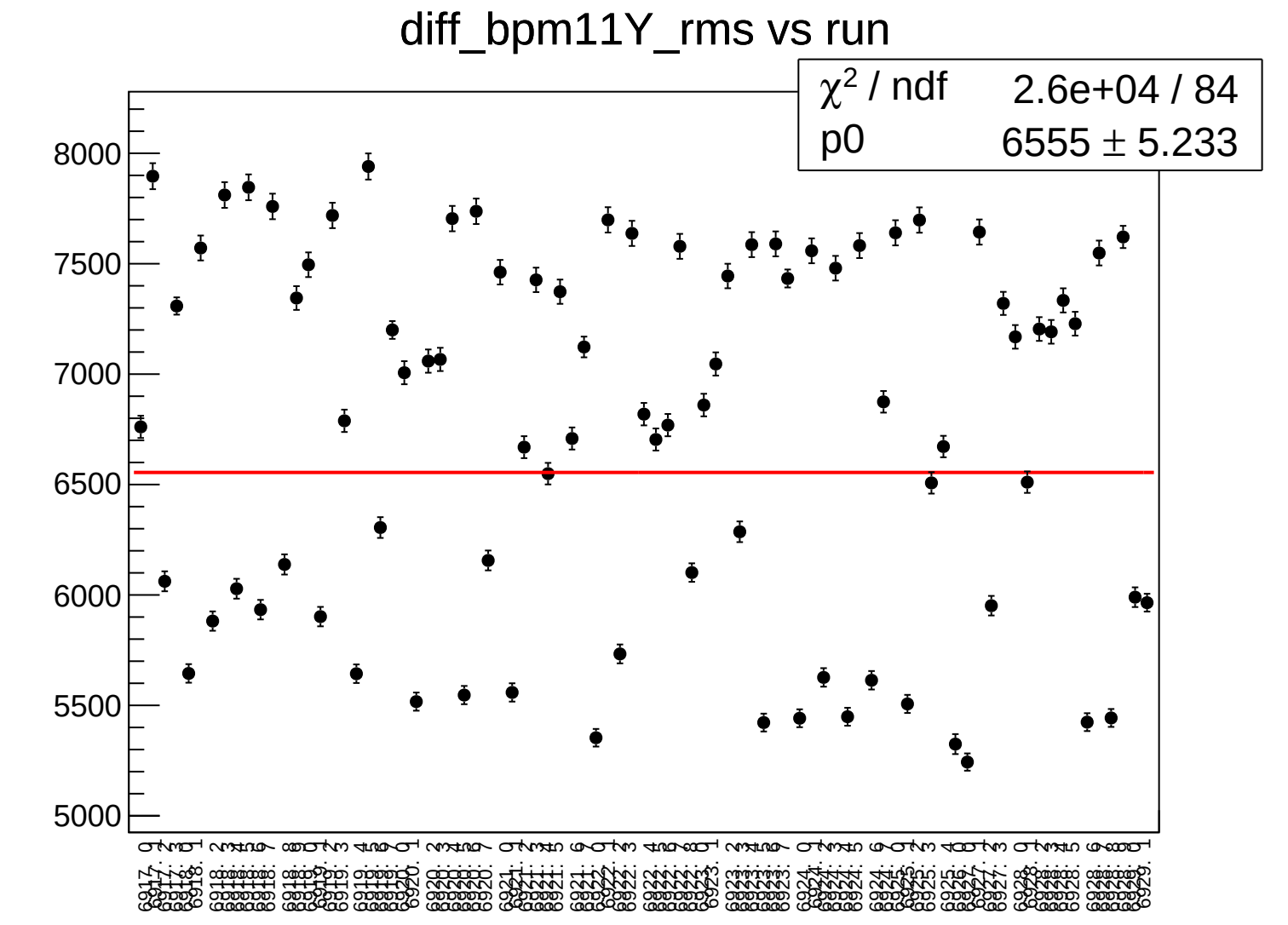

diff_bpm11X_mean vs run
χ^2 / ndf 46.57 / 84
p0 −12.6 ± 15.3
pull
Entries 85
Mean −198.2
Std Dev 239.8

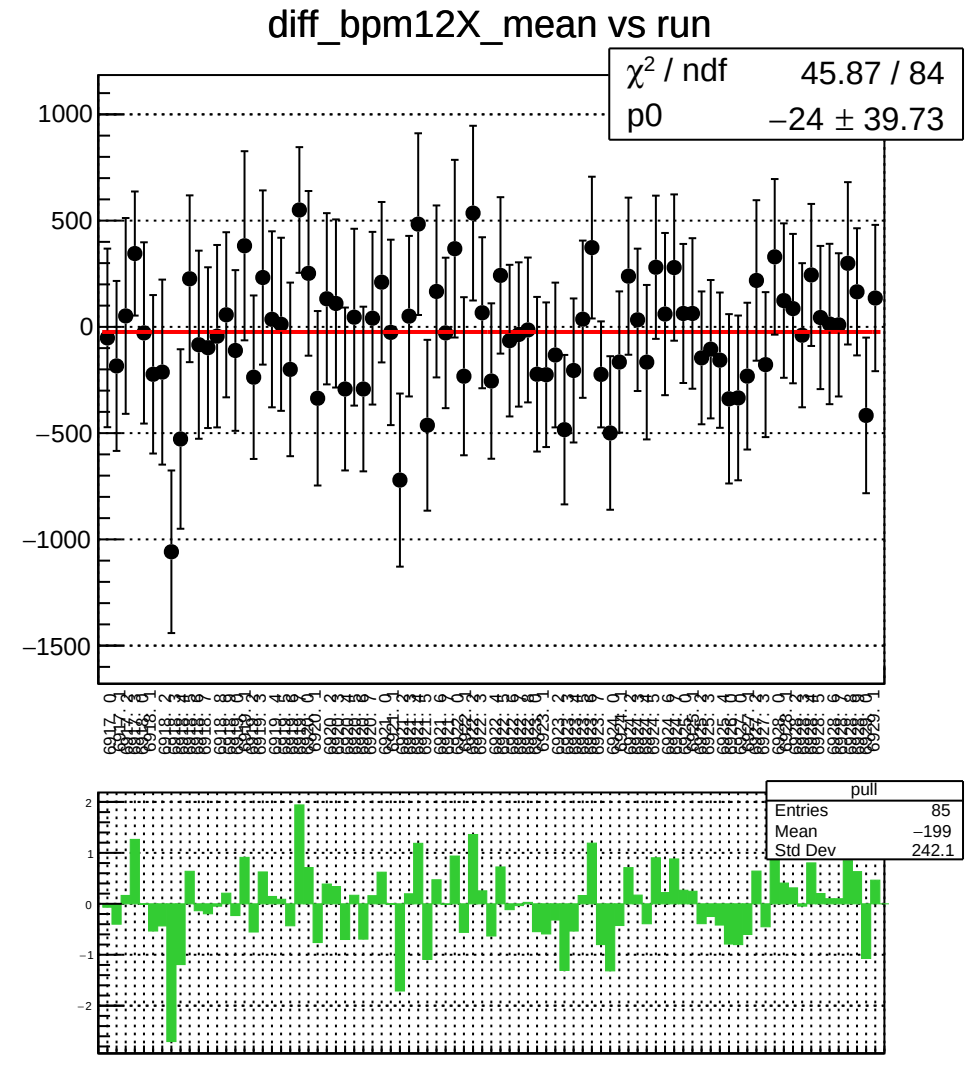

pull1D
Entries 85
Mean −0.006768
Std Dev 0.7402

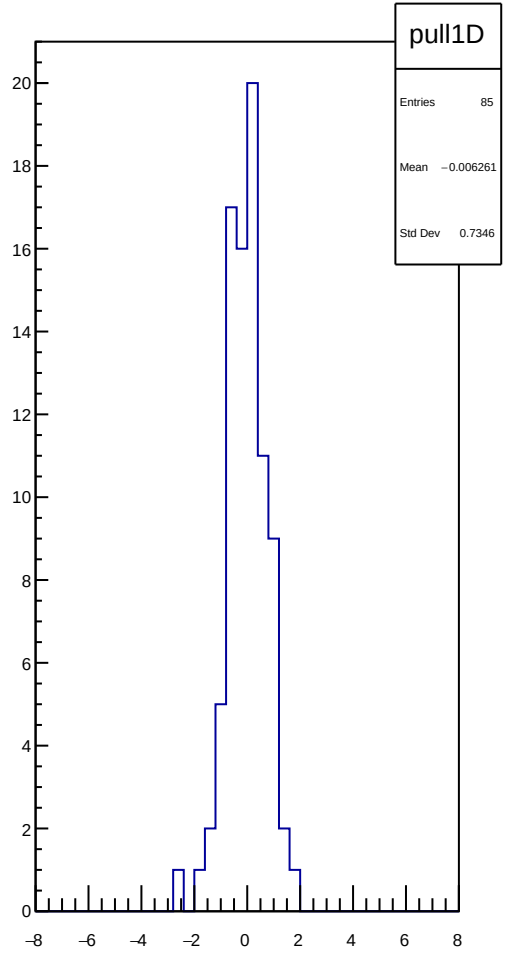

diff_bpm11X_rms vs run
χ² / ndf 1.181e+04 / 84
p0 1.361e+04 ± 10.82
17000
16000
15000
14000
13000
12000
11000

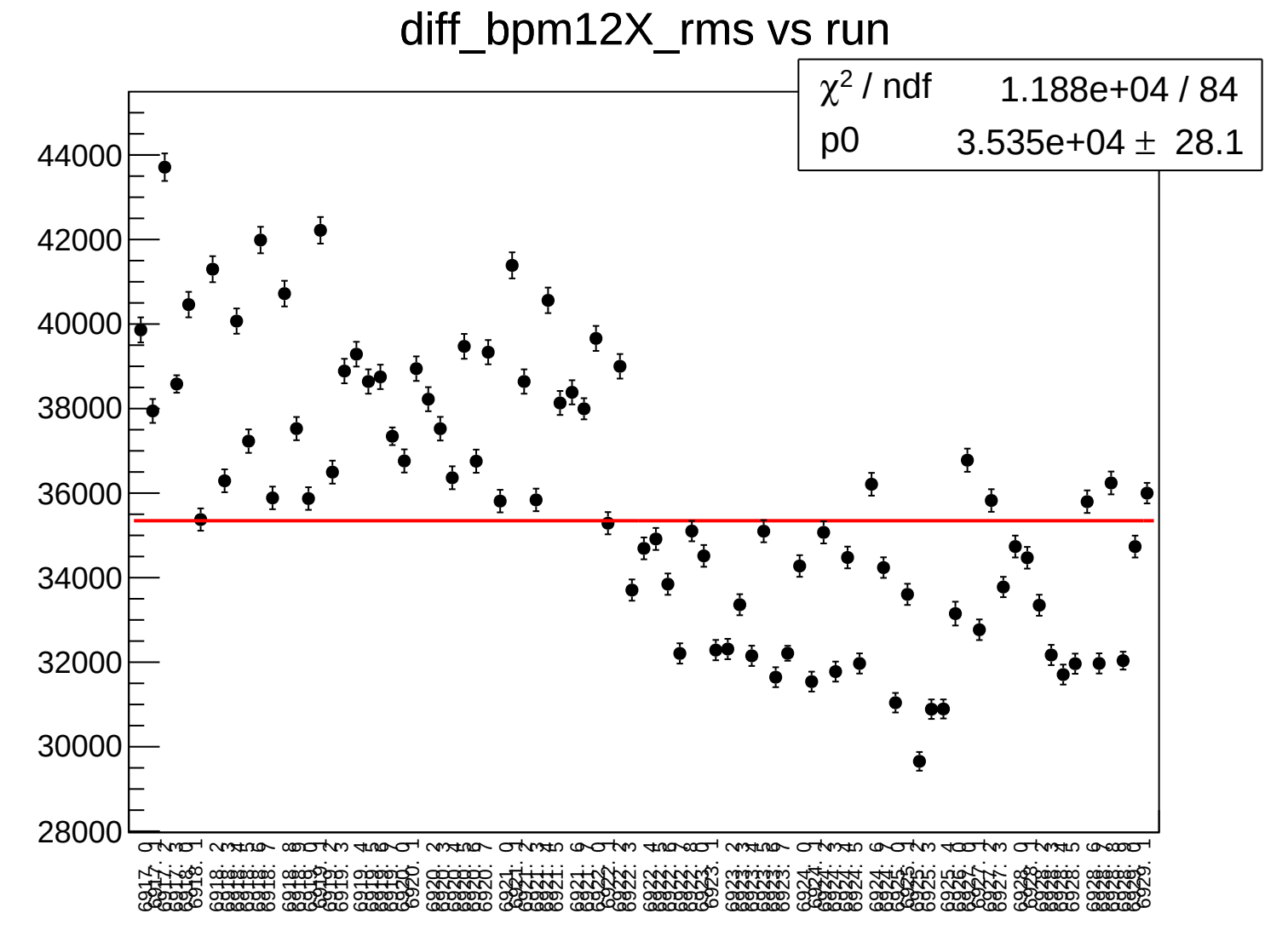

diff_bpm11Y_mean vs run
χ² / ndf 82.09 / 84
p0 –4.92 ± 7.401
200
100
0
–100
–200
pull
Entries 85
Mean –96.34
Std Dev 133.5
2
1
0
–1
–2
–3

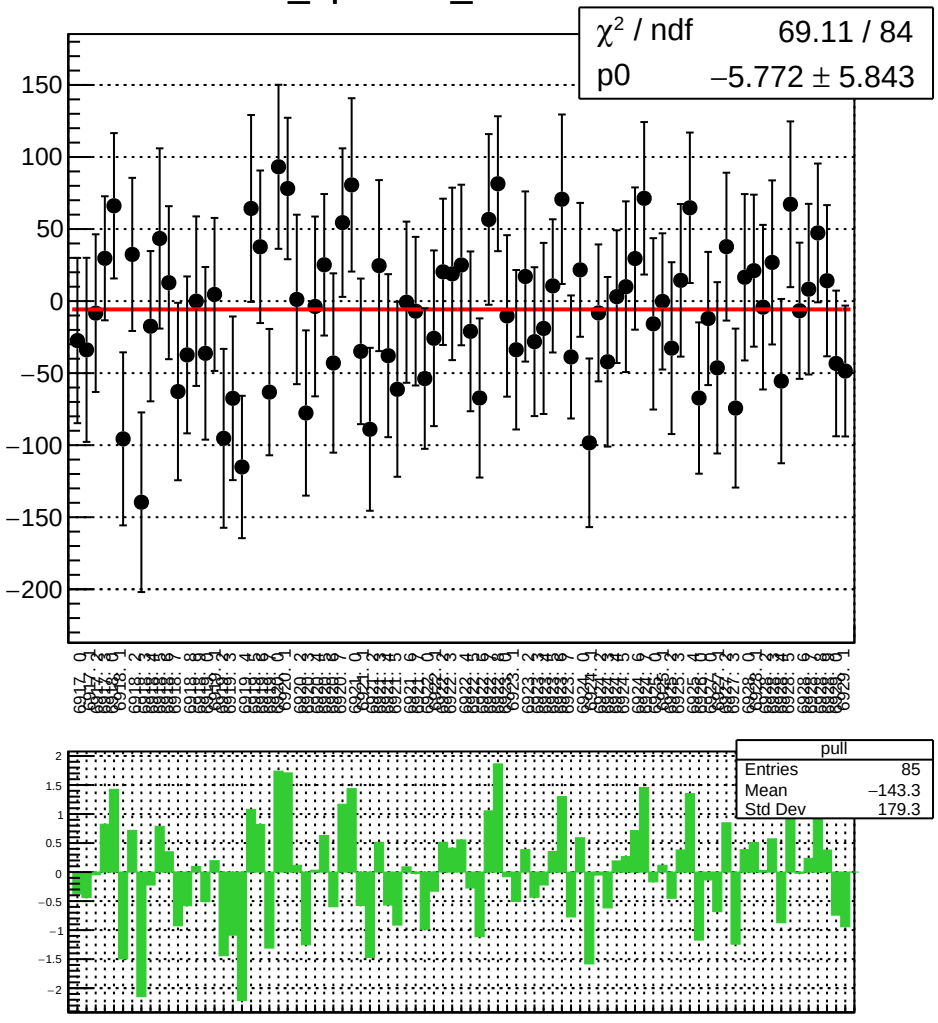

pull1D
Entries 85
Mean –0.01592
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

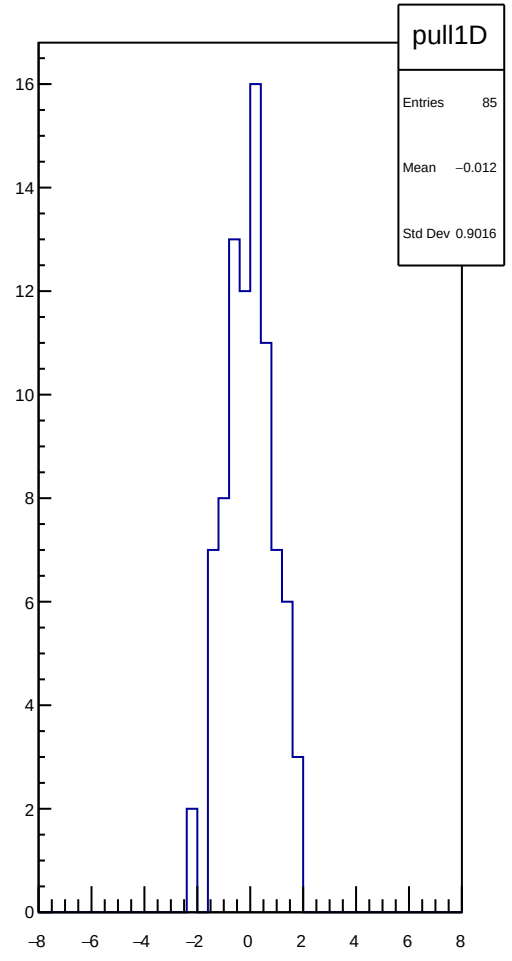

diff_bpm11Y_rms vs run
χ² / ndf 2.6e+04 / 84
p0 6555 ± 5.233
8000
7500
7000
6500
6000
5500
5000


diff_bpm12X_mean vs run
χ^2 / ndf 45.87 / 84
p0 −24 ± 39.73
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean −199
Std Dev 242.1
2
1
0
−1
−2

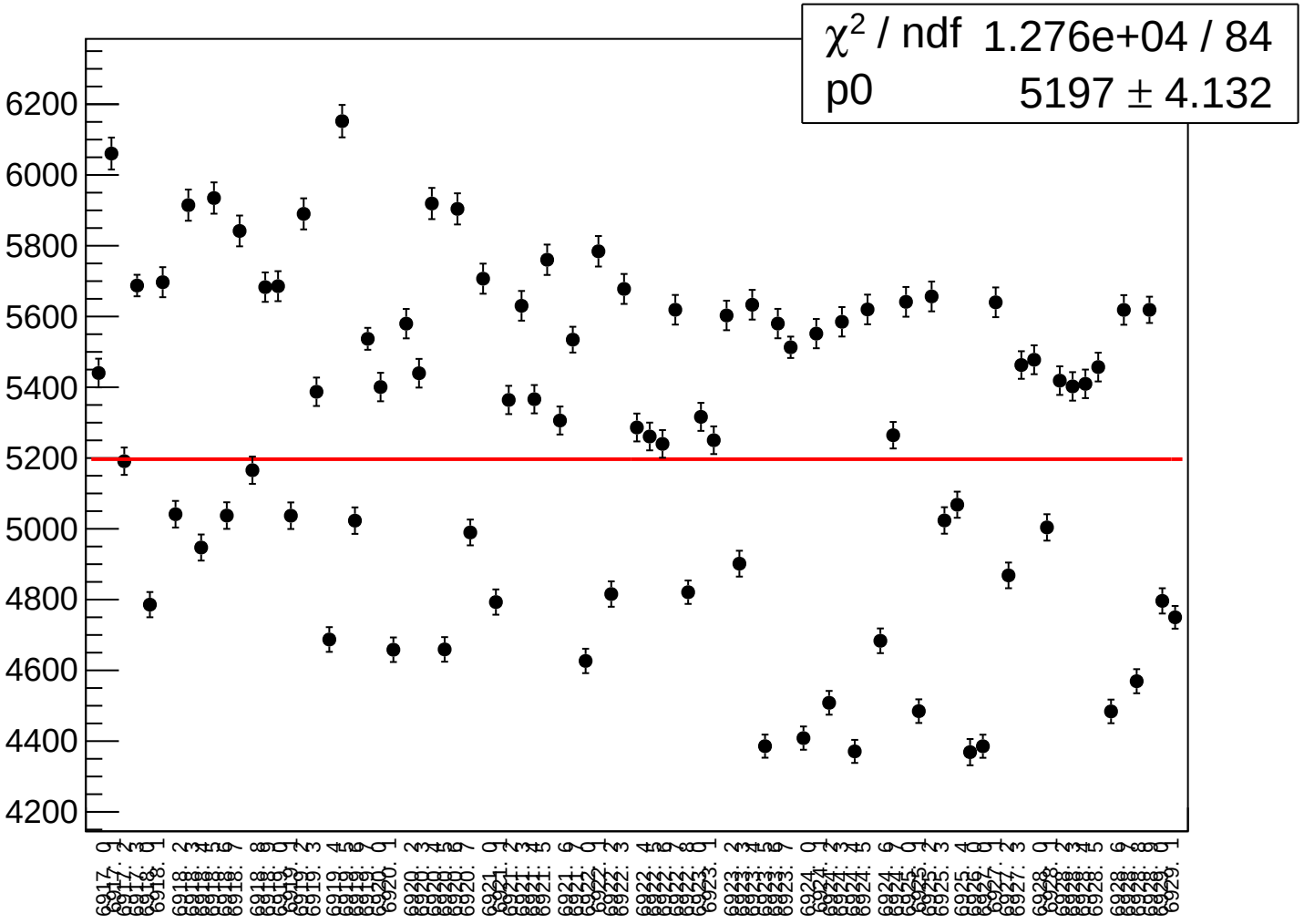

pull1D
Entries 85
Mean −0.006261
Std Dev 0.7346
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

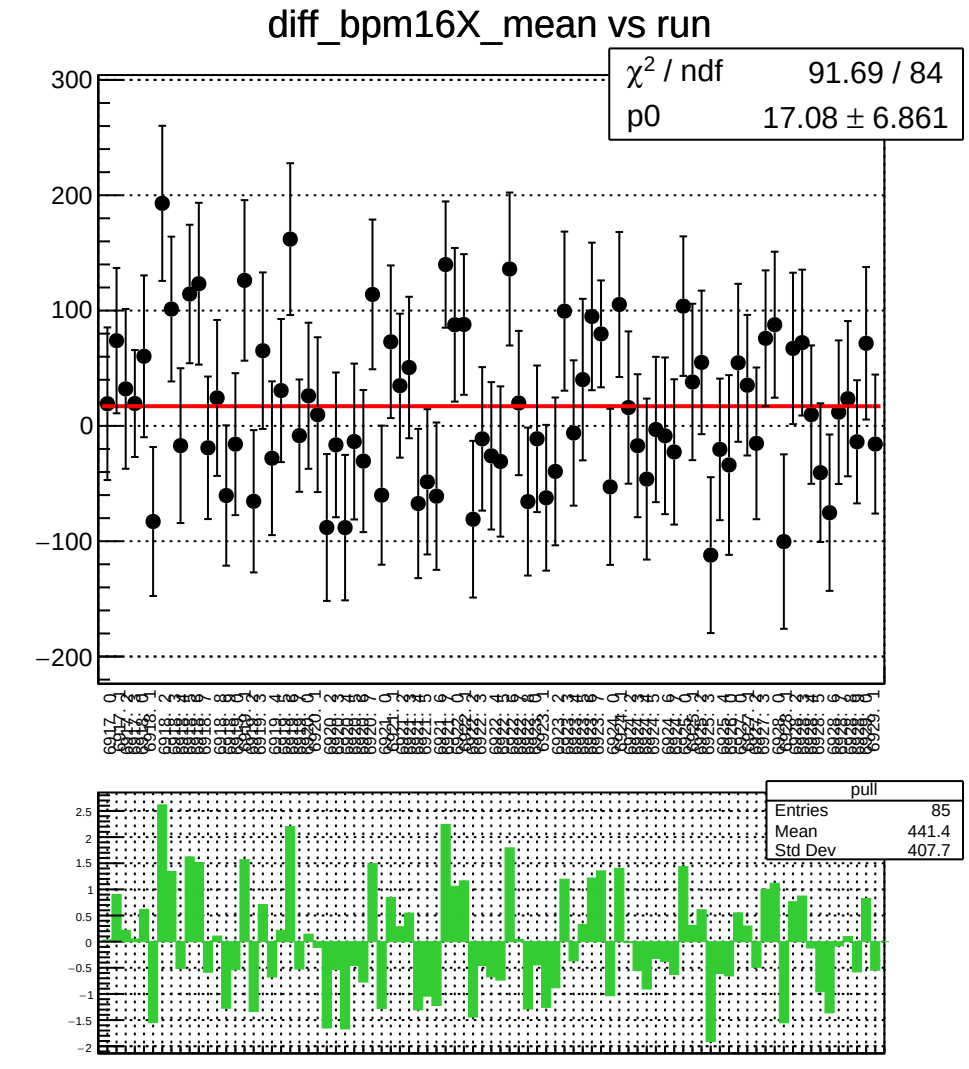

diff_bpm12X_rms vs run
χ² / ndf 1.188e+04 / 84
p0 3.535e+04 ± 28.1
44000
42000
40000
38000
36000
34000
32000
30000
28000

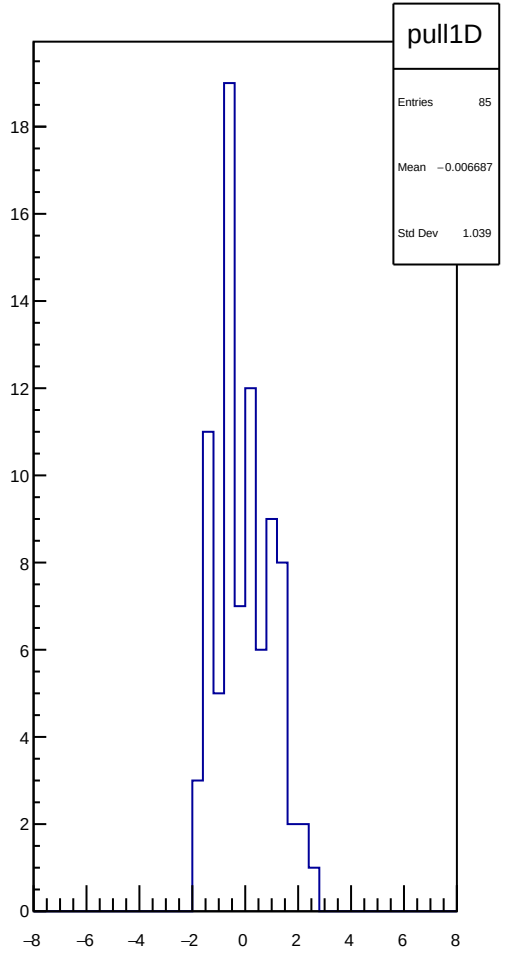

diff_bpm12Y_mean vs run
χ² / ndf 69.11 / 84
p0 −5.772 ± 5.843
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −143.3
Std Dev 179.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

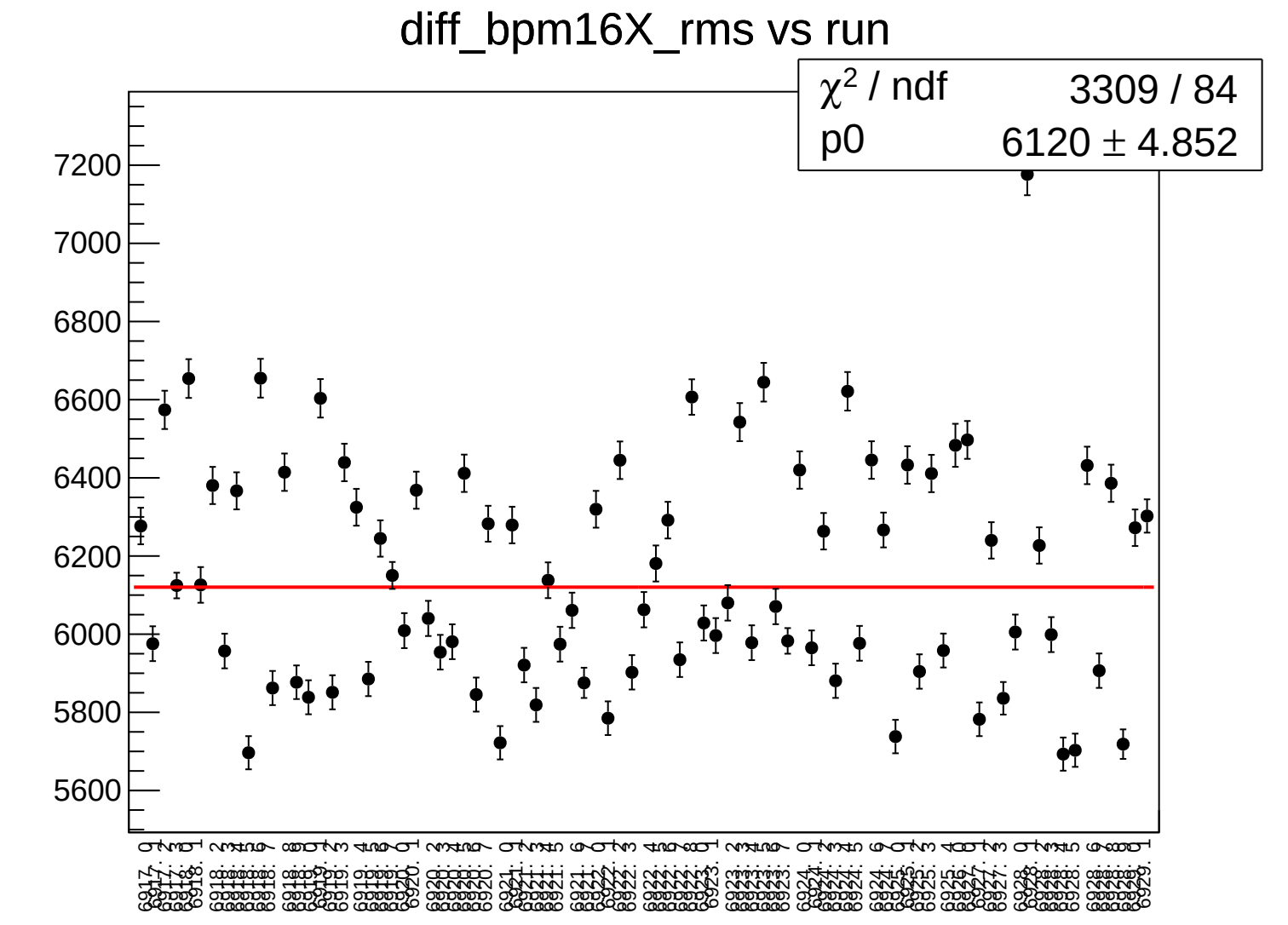

pull1D
Entries 85
Mean −0.012
Std Dev 0.9016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

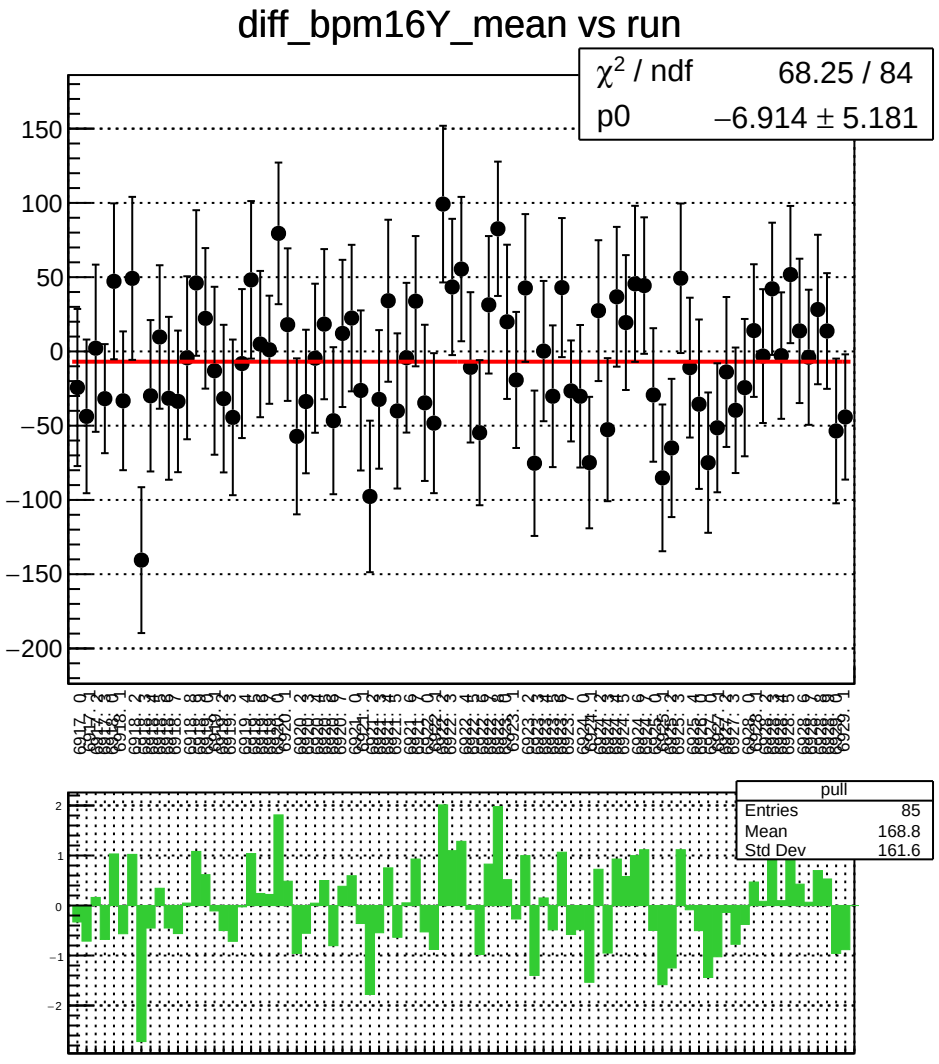
diff_bpm12Y_rms vs run

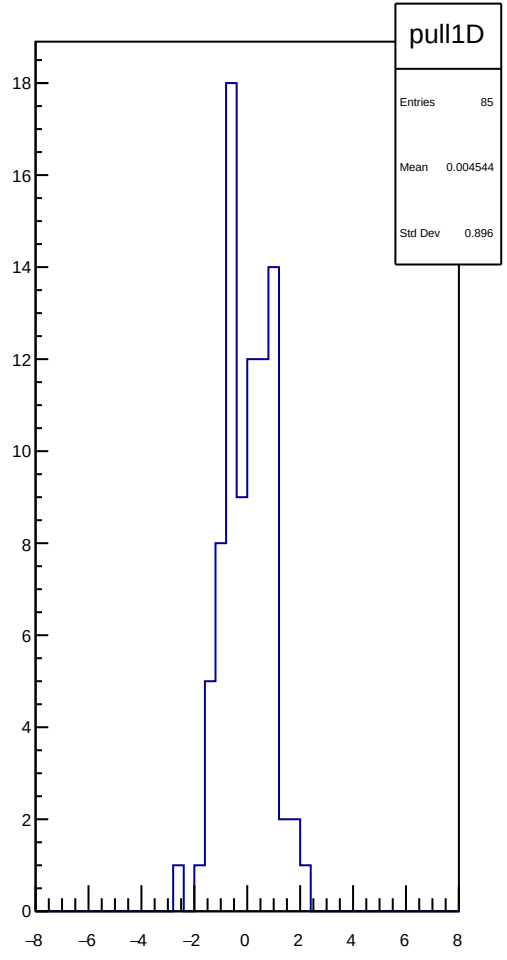


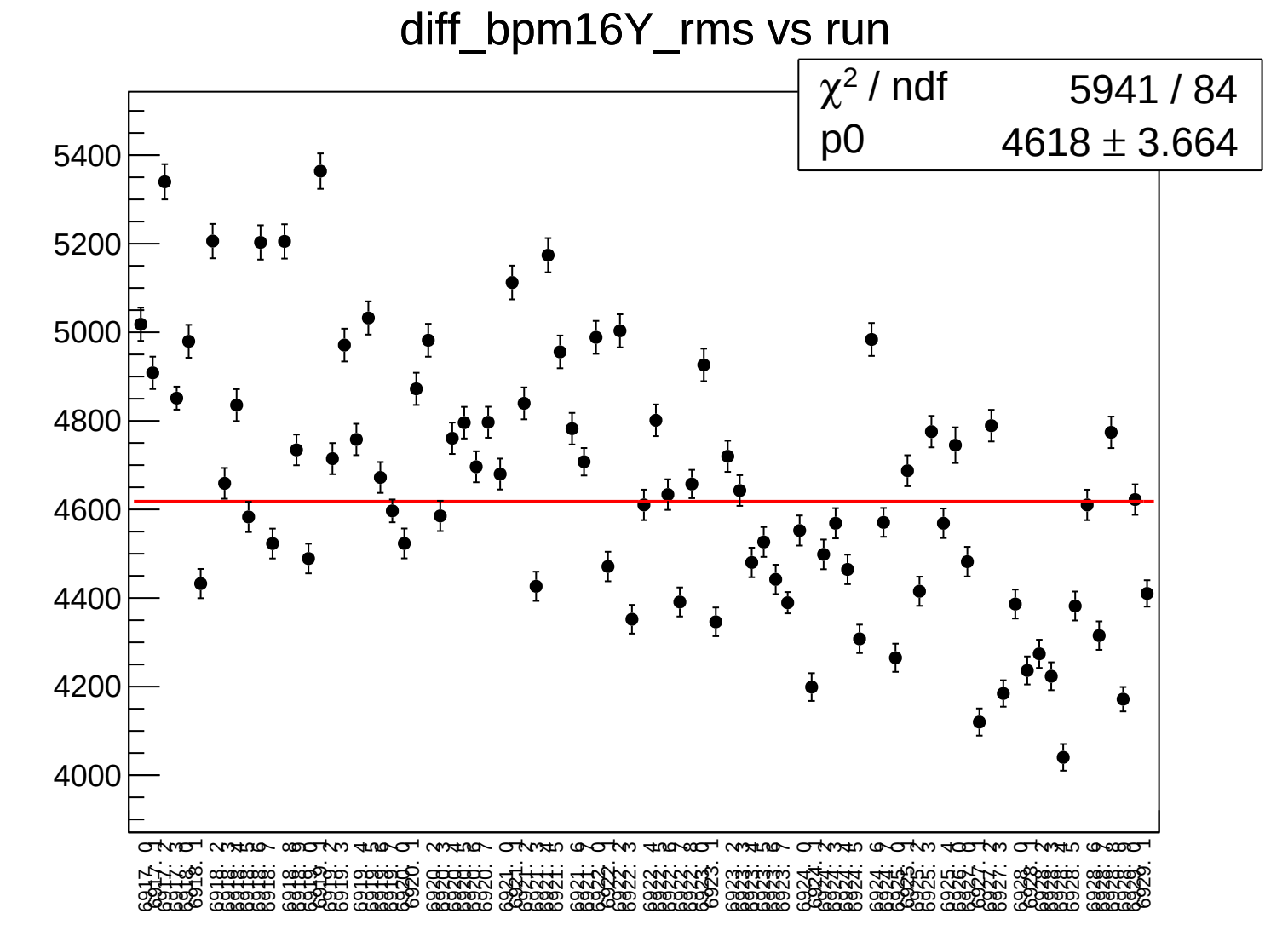

diff_bpm16X_mean vs run
χ^2 / ndf 91.69 / 84
p0 17.08 ± 6.861
pull
Entries 85
Mean 441.4
Std Dev 407.7

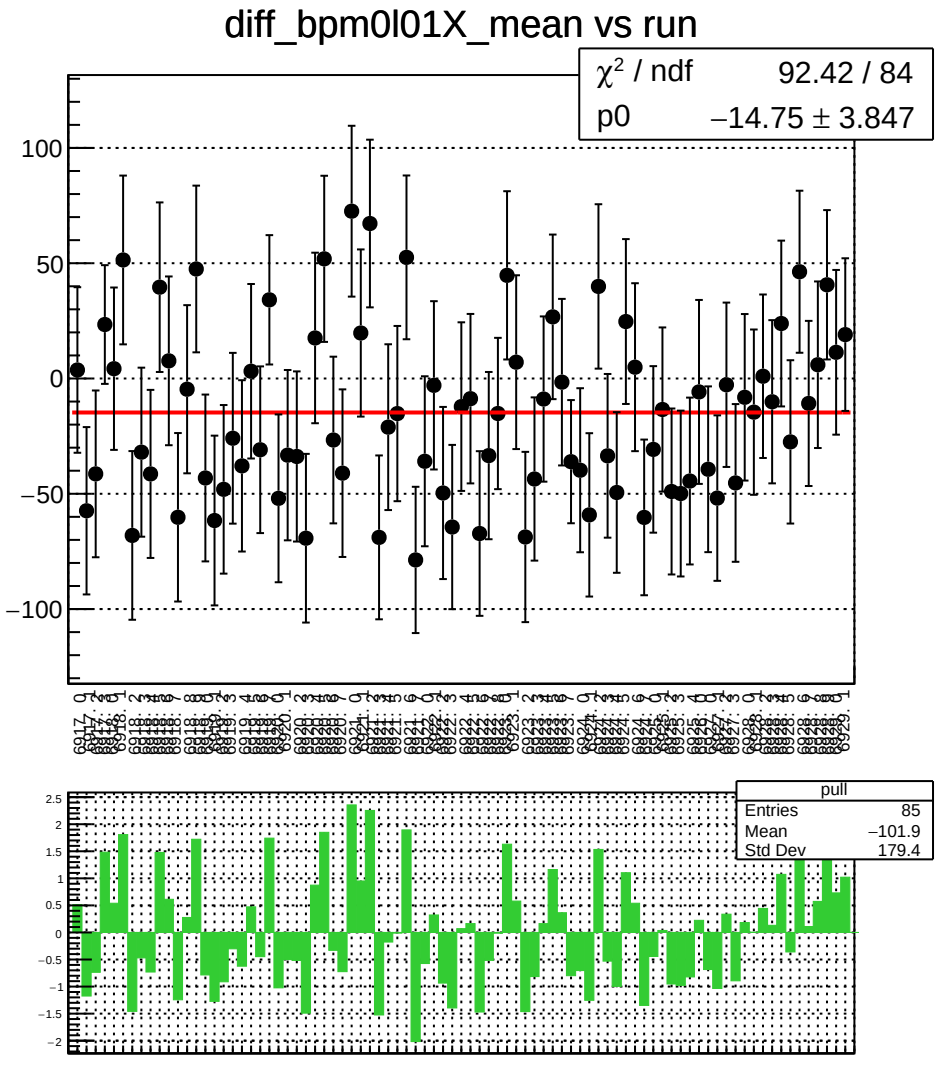

pull1D
Entries 85
Mean −0.006687
Std Dev 1.039

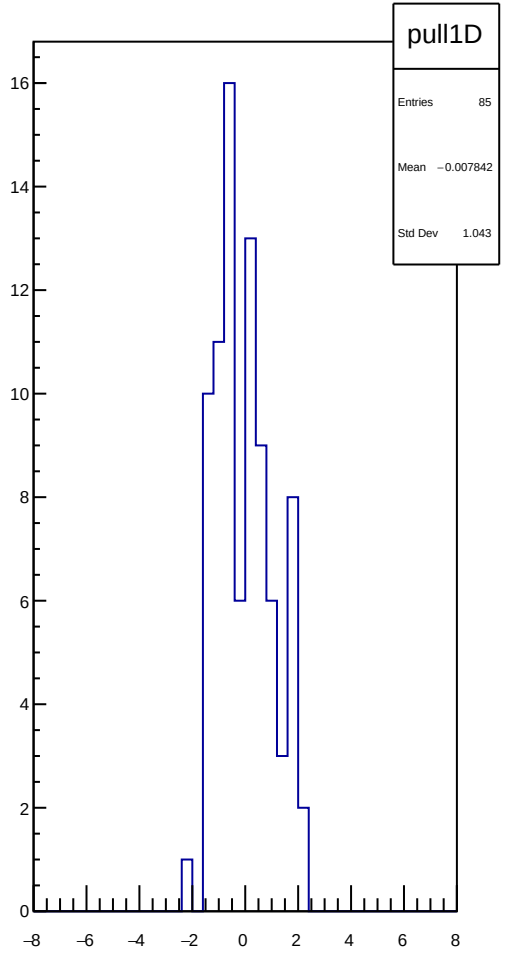

diff_bpm16X_rms vs run
χ² / ndf 3309 / 84
p0 6120 ± 4.852
7200
7000
6800
6600
6400
6200
6000
5800
5600

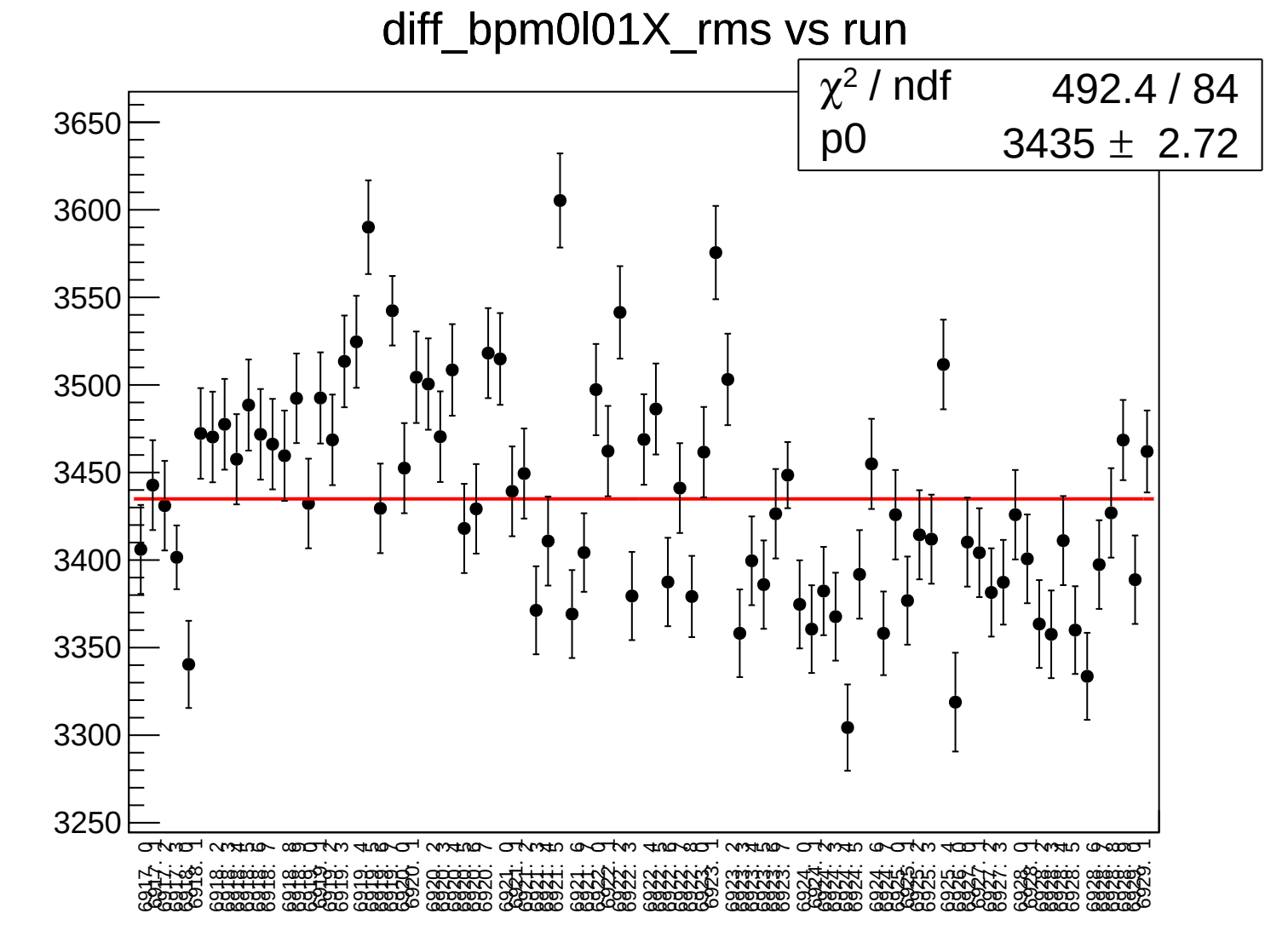

diff_bpm16Y_mean vs run
χ² / ndf 68.25 / 84
p0 −6.914 ± 5.181
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean 168.8
Std Dev 161.6
2
1
0
−1
−2

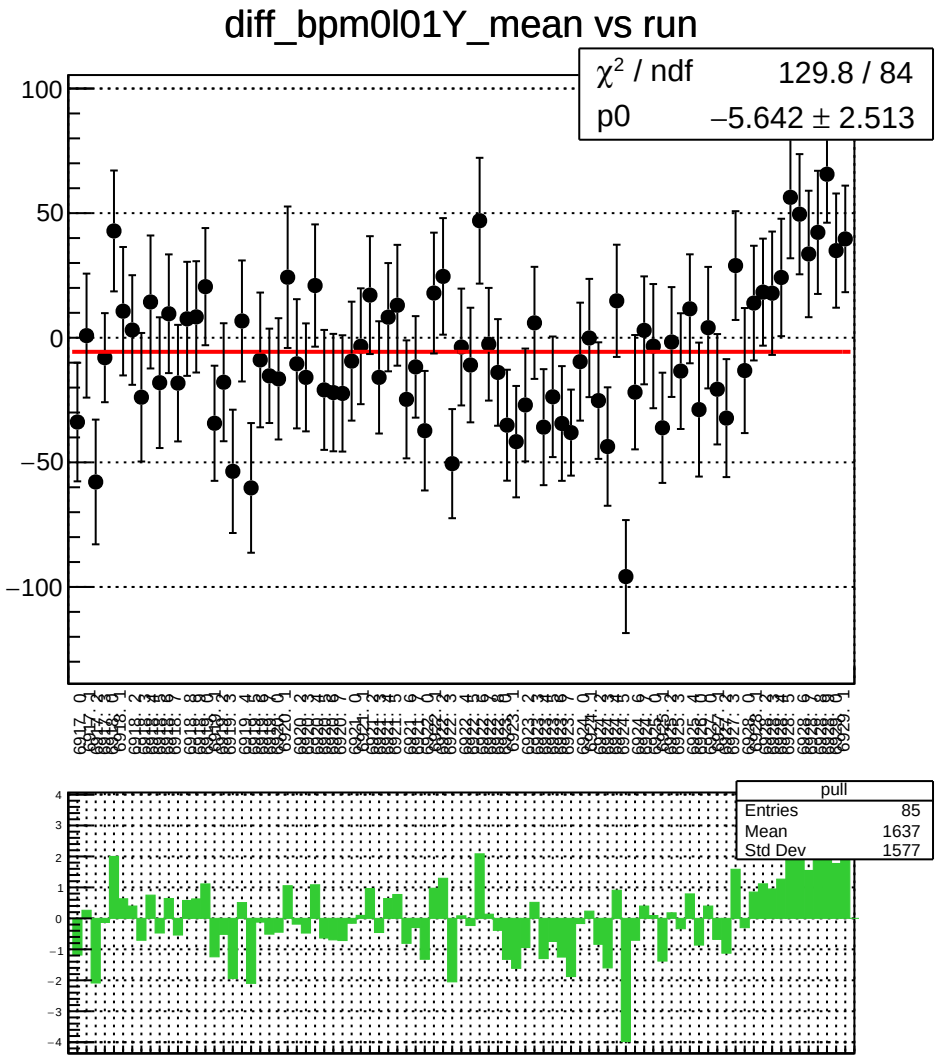

pull1D
Entries 85
Mean 0.004544
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

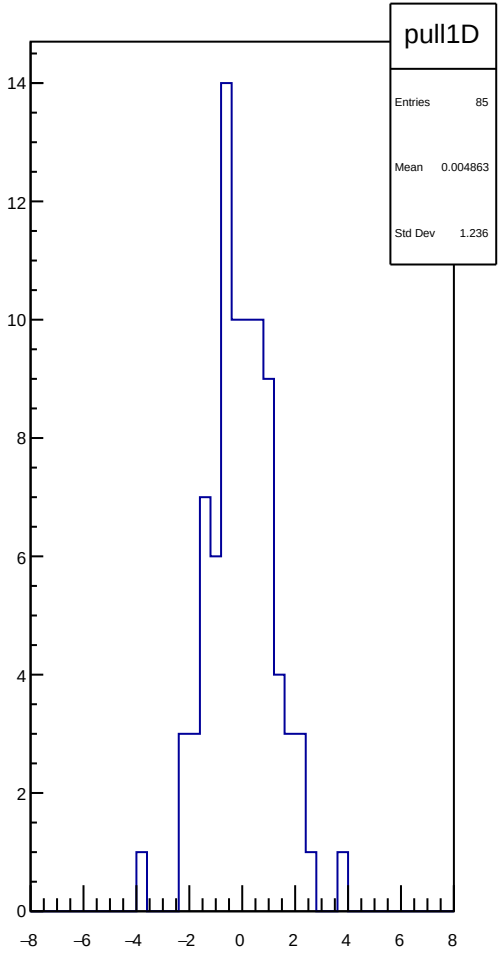

diff_bpm16Y_rms vs run
χ^2 / ndf 5941 / 84
p0 4618 ± 3.664
5400
5200
5000
4800
4600
4400
4200
4000

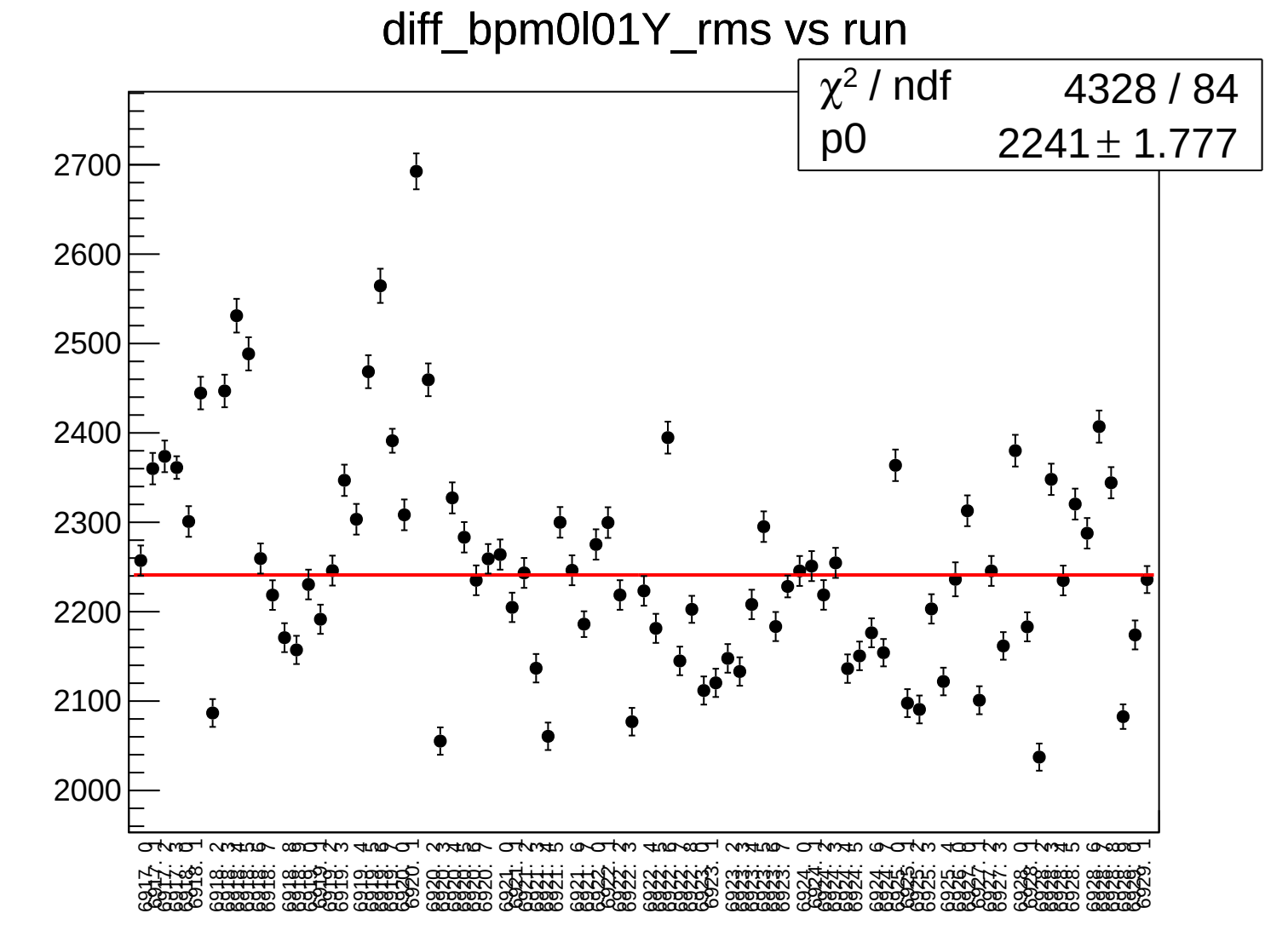

diff_bpm0l01X_mean vs run
χ^2 / ndf 92.42 / 84
p0 −14.75 ± 3.847
100
50
0
−50
−100
pull
Entries 85
Mean −101.9
Std Dev 179.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

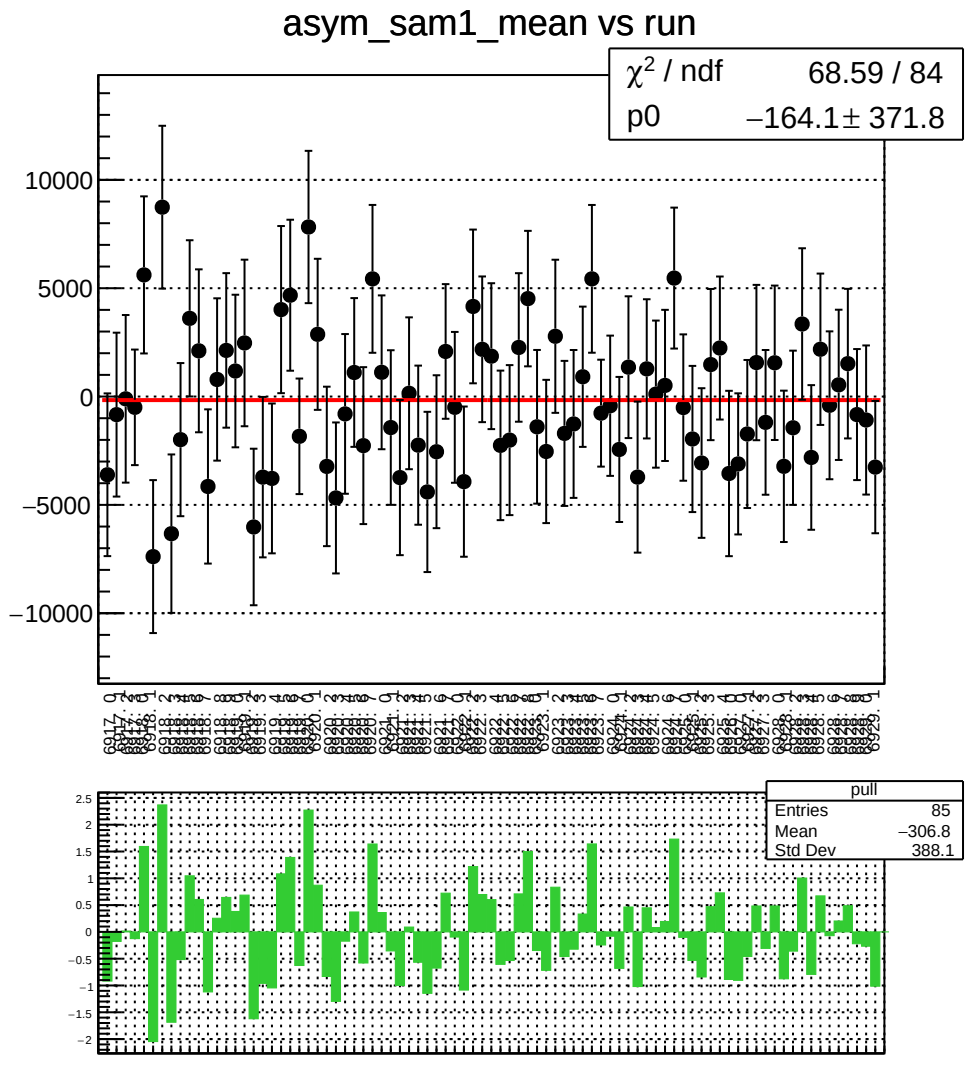

pull1D
Entries 85
Mean −0.007842
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

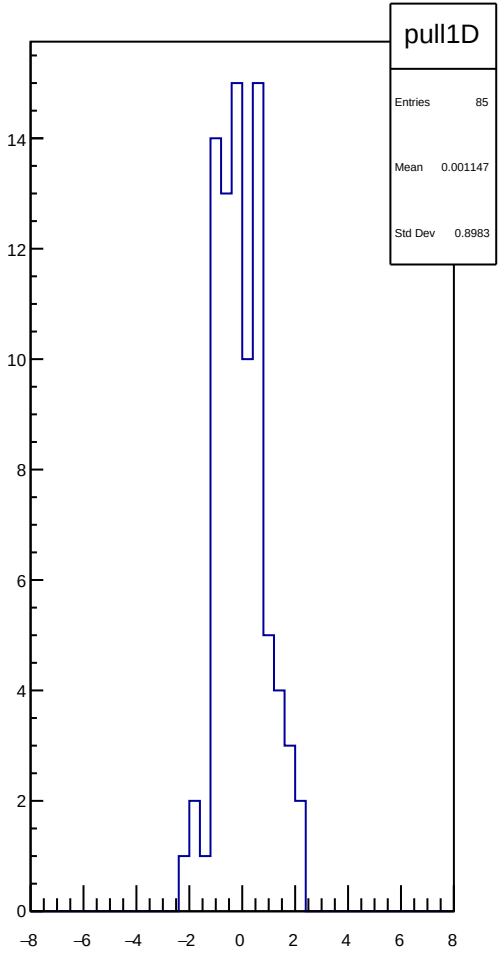

diff_bpm0l01X_rms vs run
χ² / ndf 492.4 / 84
p0 3435 ± 2.72
3650
3600
3550
3500
3450
3400
3350
3300
3250

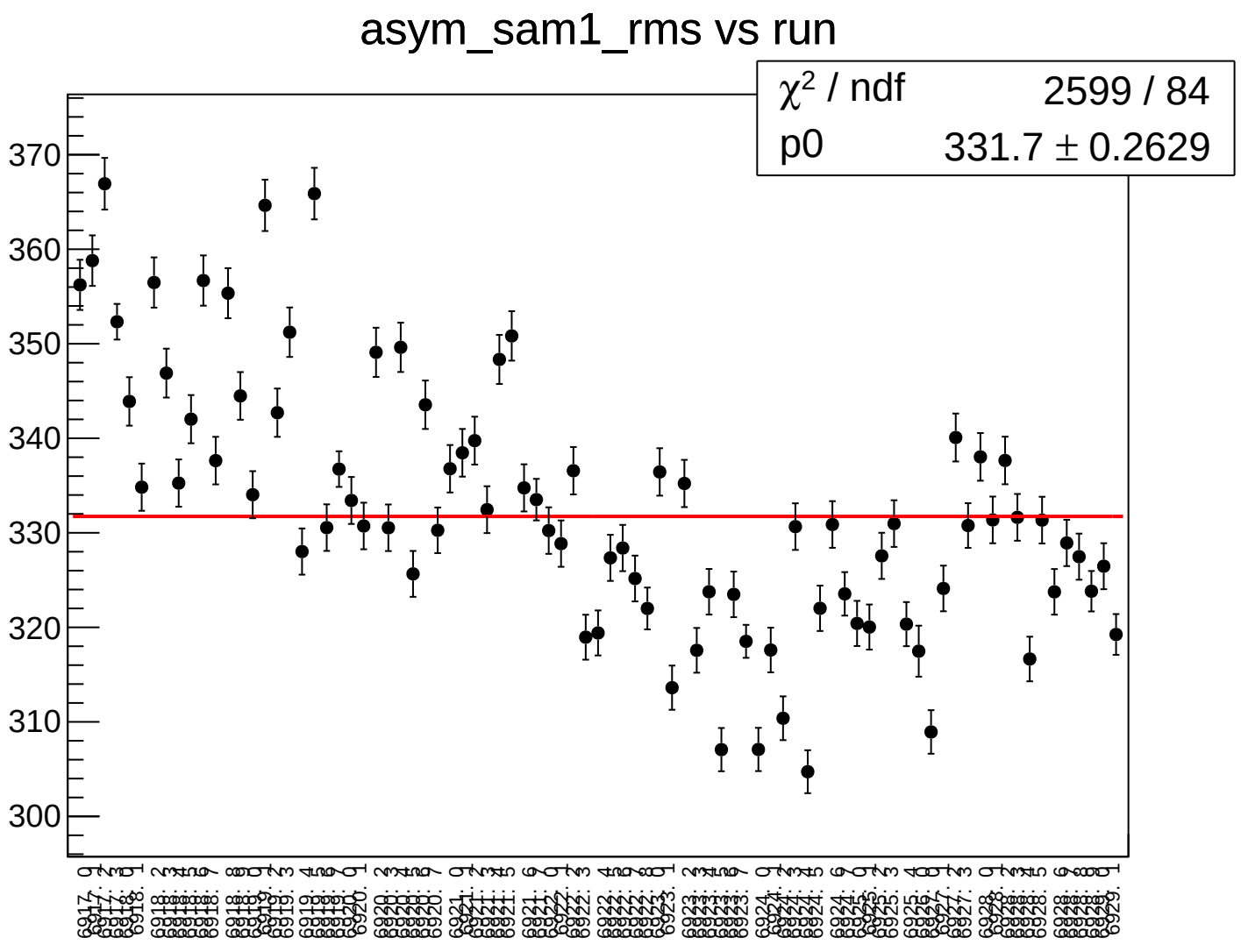

diff_bpm0l01Y_mean vs run
χ² / ndf 129.8 / 84
p0 −5.642 ± 2.513
100
50
0
−50
−100
pull
Entries 85
Mean 1637
Std Dev 1577
4
3
2
1
0
−1
−2
−3
−4

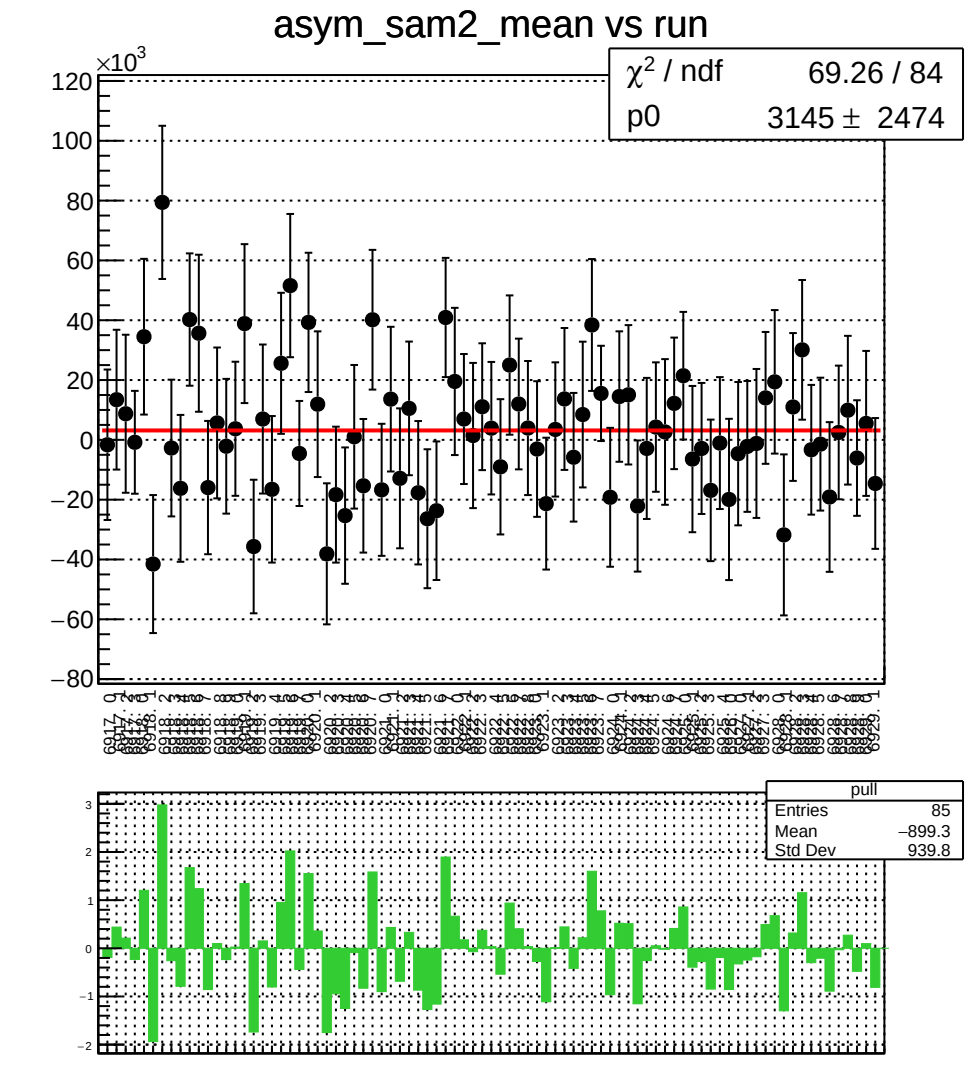

pull1D
Entries 85
Mean 0.004863
Std Dev 1.236
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

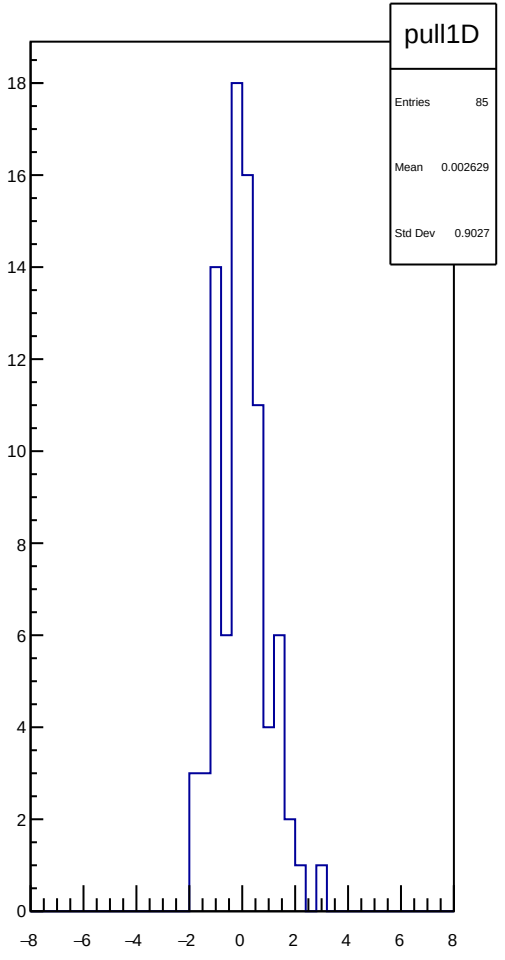

diff_bpm0l01Y_rms vs run
χ² / ndf 4328 / 84
p0 2241 ± 1.777
2700
2600
2500
2400
2300
2200
2100
2000

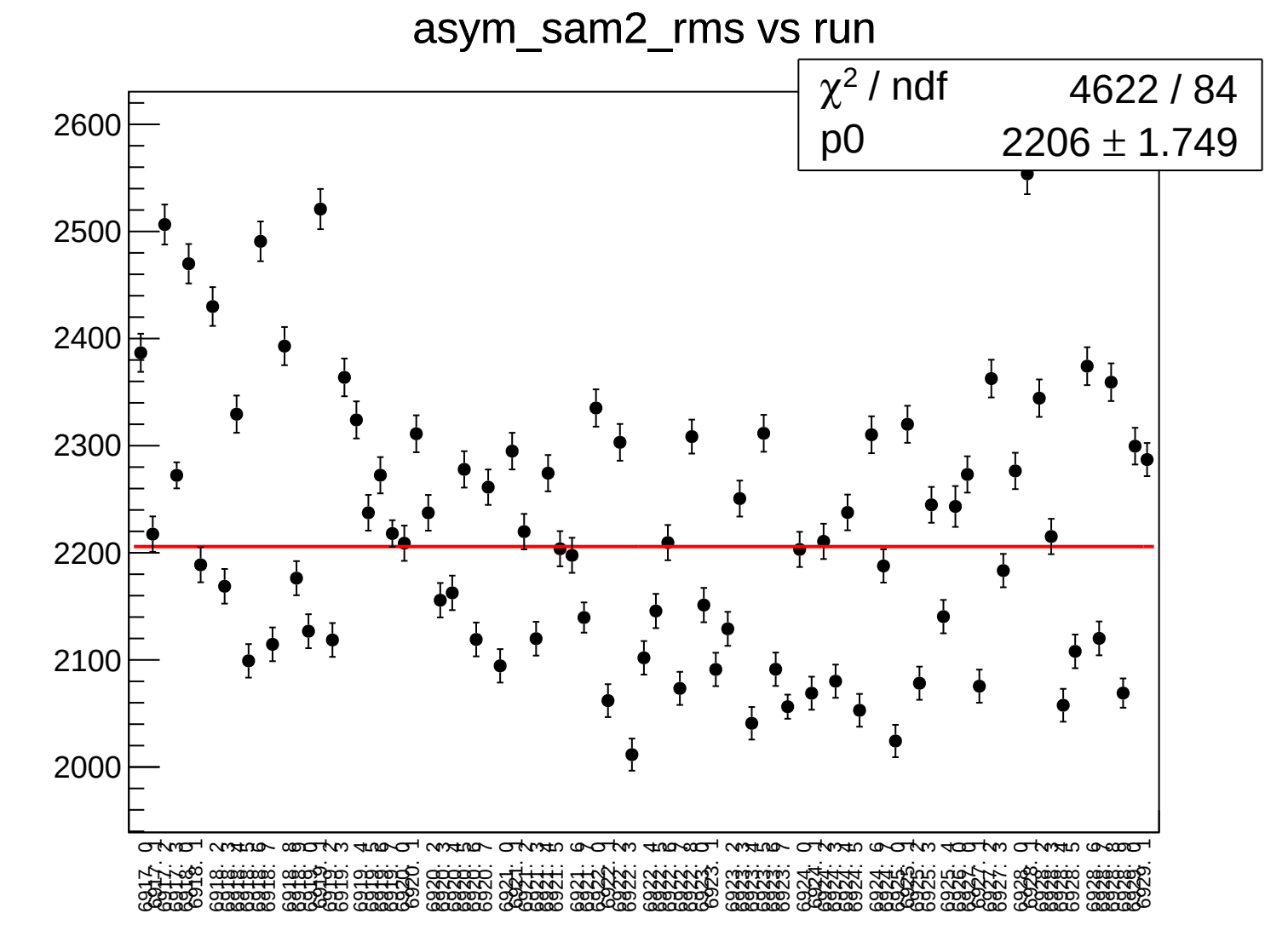

asym_sam1_mean vs run
χ² / ndf 68.59 / 84
p0 −164.1± 371.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −306.8
Std Dev 388.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

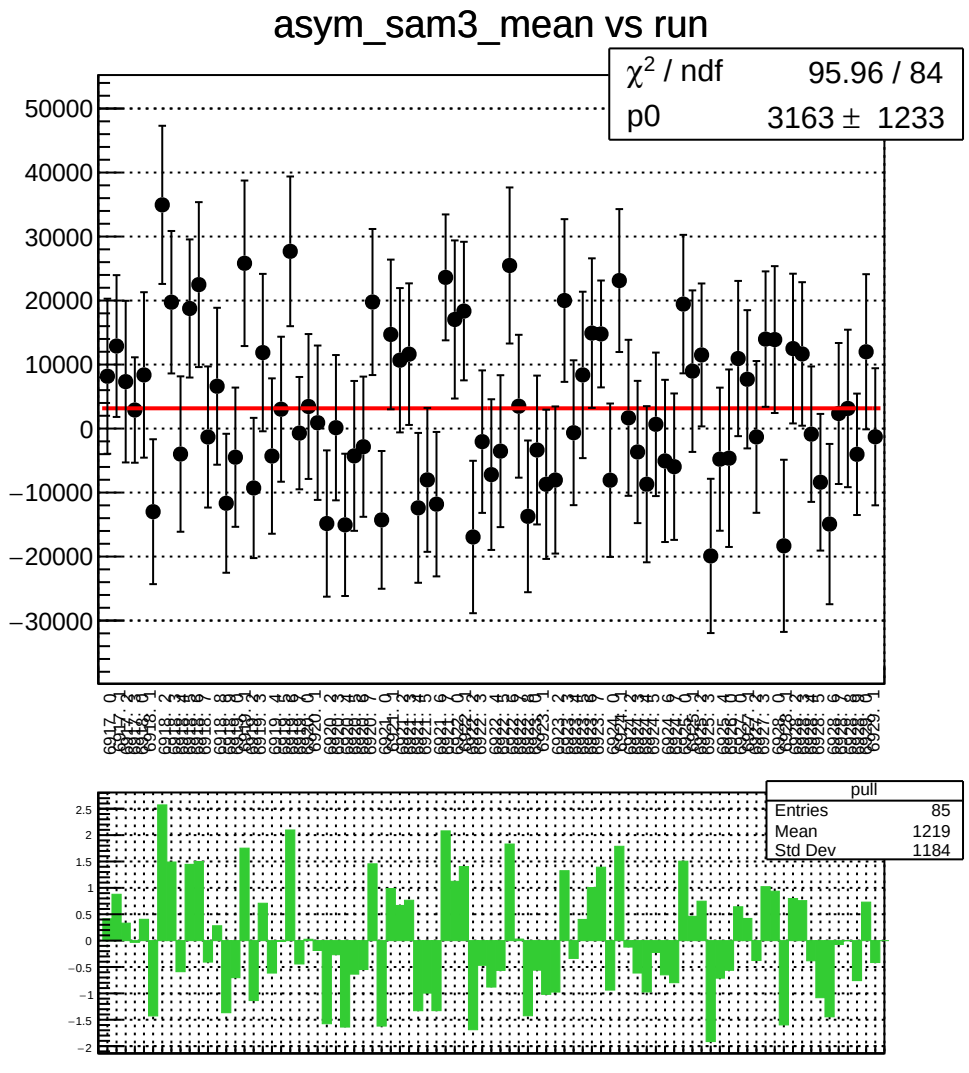

pull1D
Entries 85
Mean 0.001147
Std Dev 0.8983
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

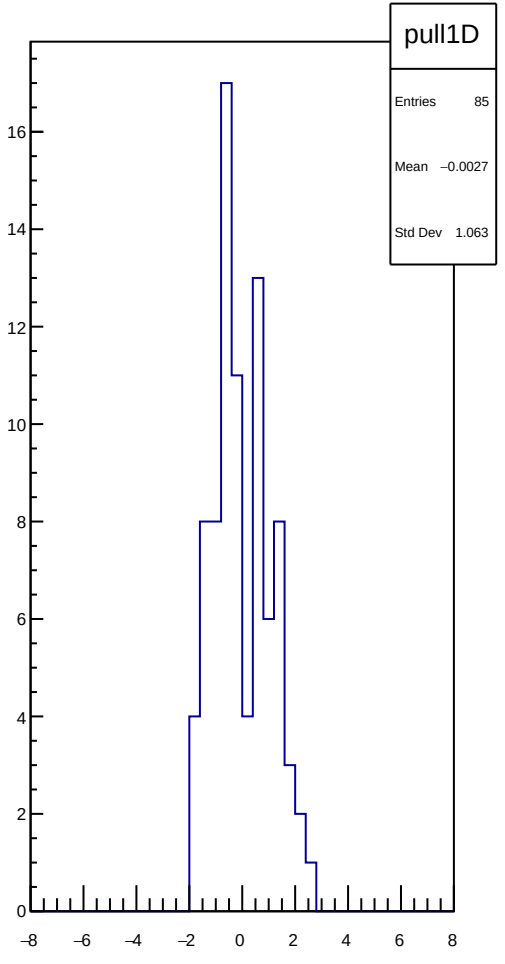

asym_sam1_rms vs run
χ² / ndf 2599 / 84
p0 331.7 ± 0.2629
370
360
350
340
330
320
310
300

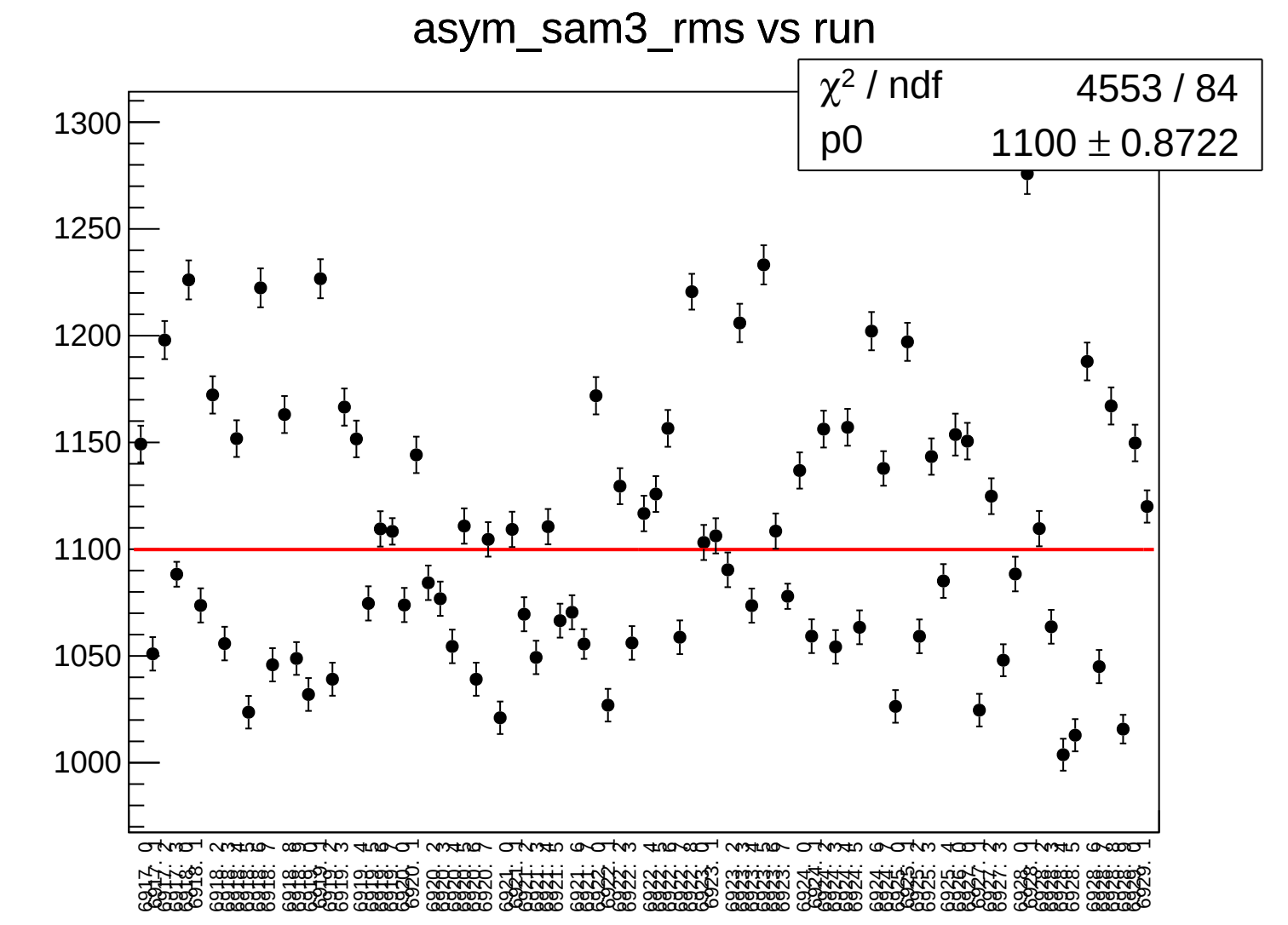

asym_sam2_mean vs run
χ² / ndf 69.26 / 84
p0 3145 ± 2474
×10³
pull
Entries 85
Mean −899.3
Std Dev 939.8

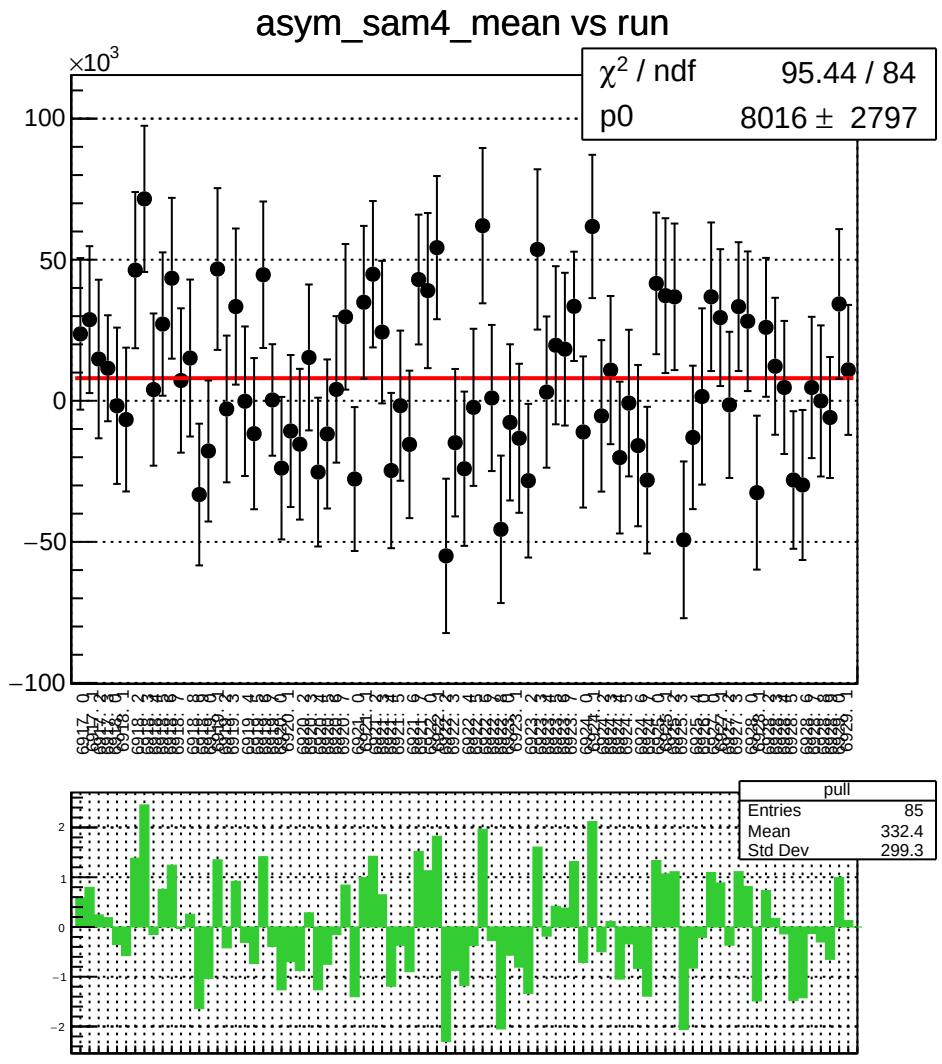

pull1D
Entries 85
Mean 0.002629
Std Dev 0.9027

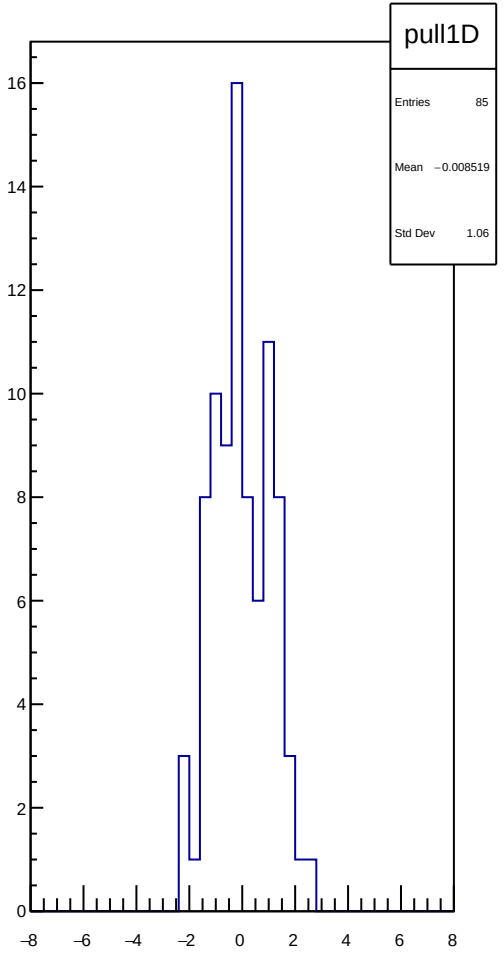

asym_sam2_rms vs run
χ² / ndf 4622 / 84
p0 2206 ± 1.749
2600
2500
2400
2300
2200
2100
2000

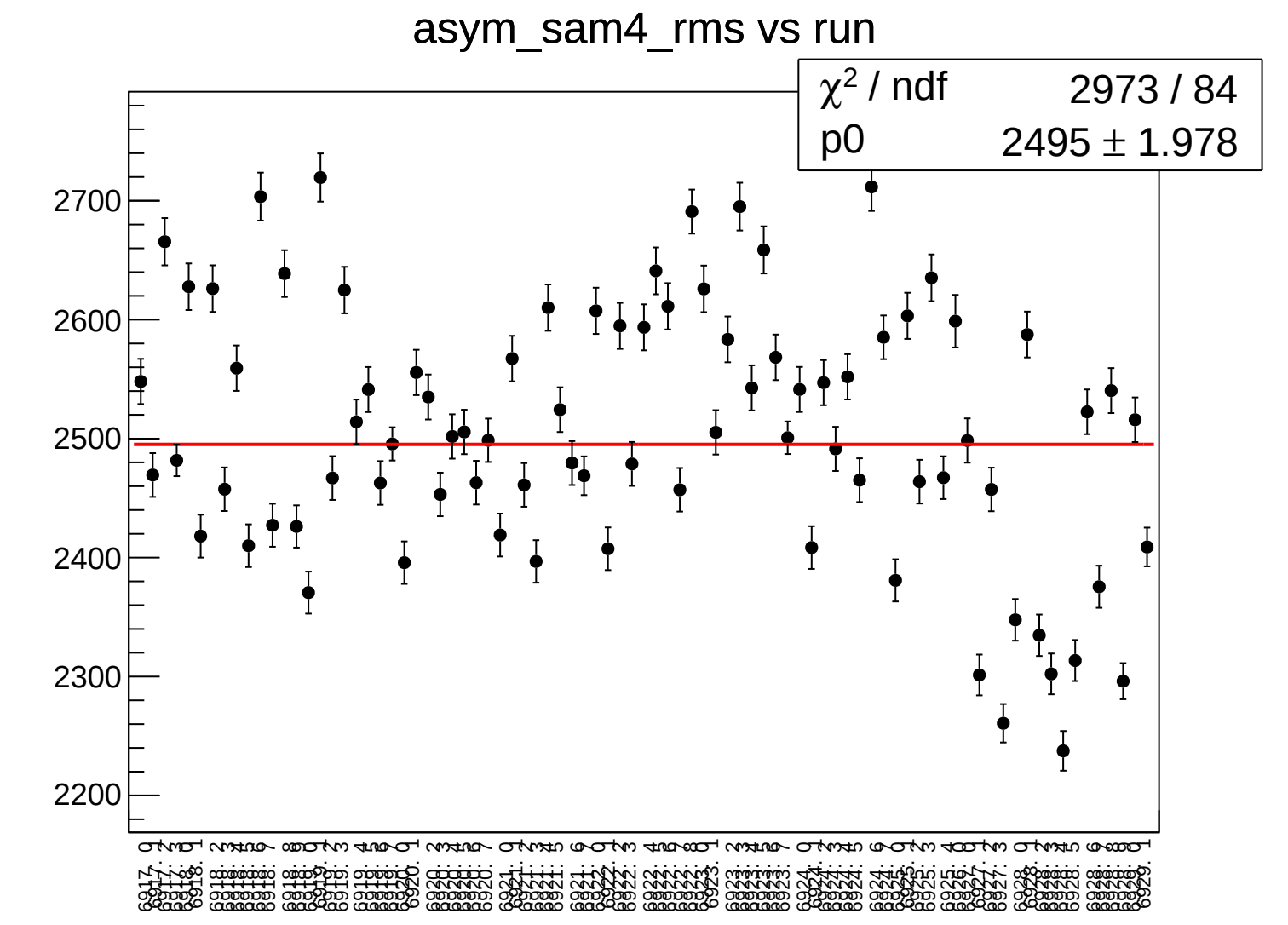

asym_sam3_mean vs run
χ² / ndf 95.96 / 84
p0 3163 ± 1233
pull
Entries 85
Mean 1219
Std Dev 1184

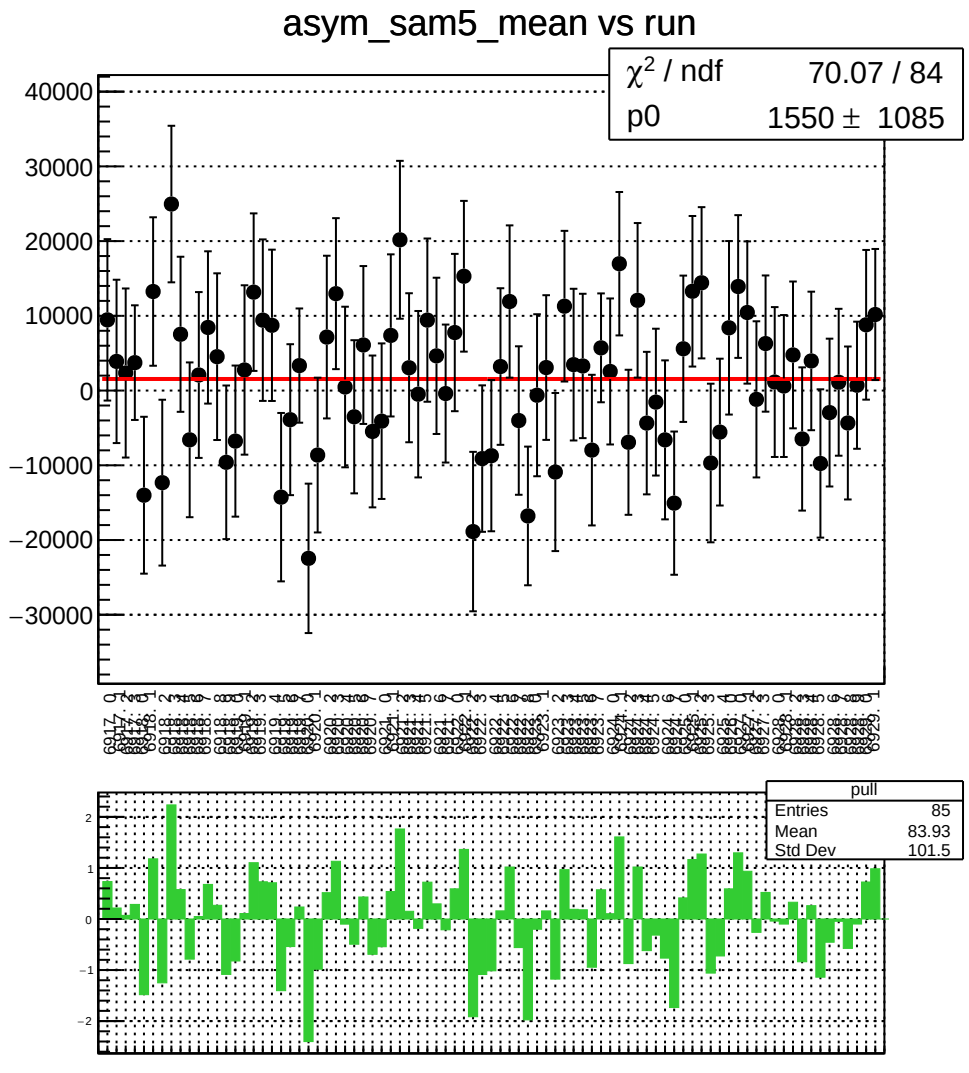

pull1D
Entries 85
Mean −0.0027
Std Dev 1.063

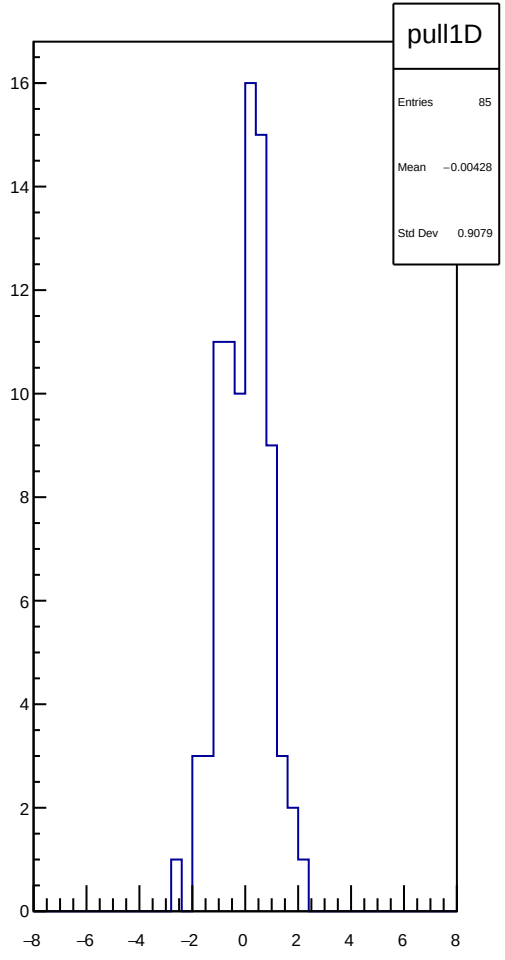

asym_sam3_rms vs run
χ² / ndf 4553 / 84
p0 1100 ± 0.8722
1300
1250
1200
1150
1100
1050
1000

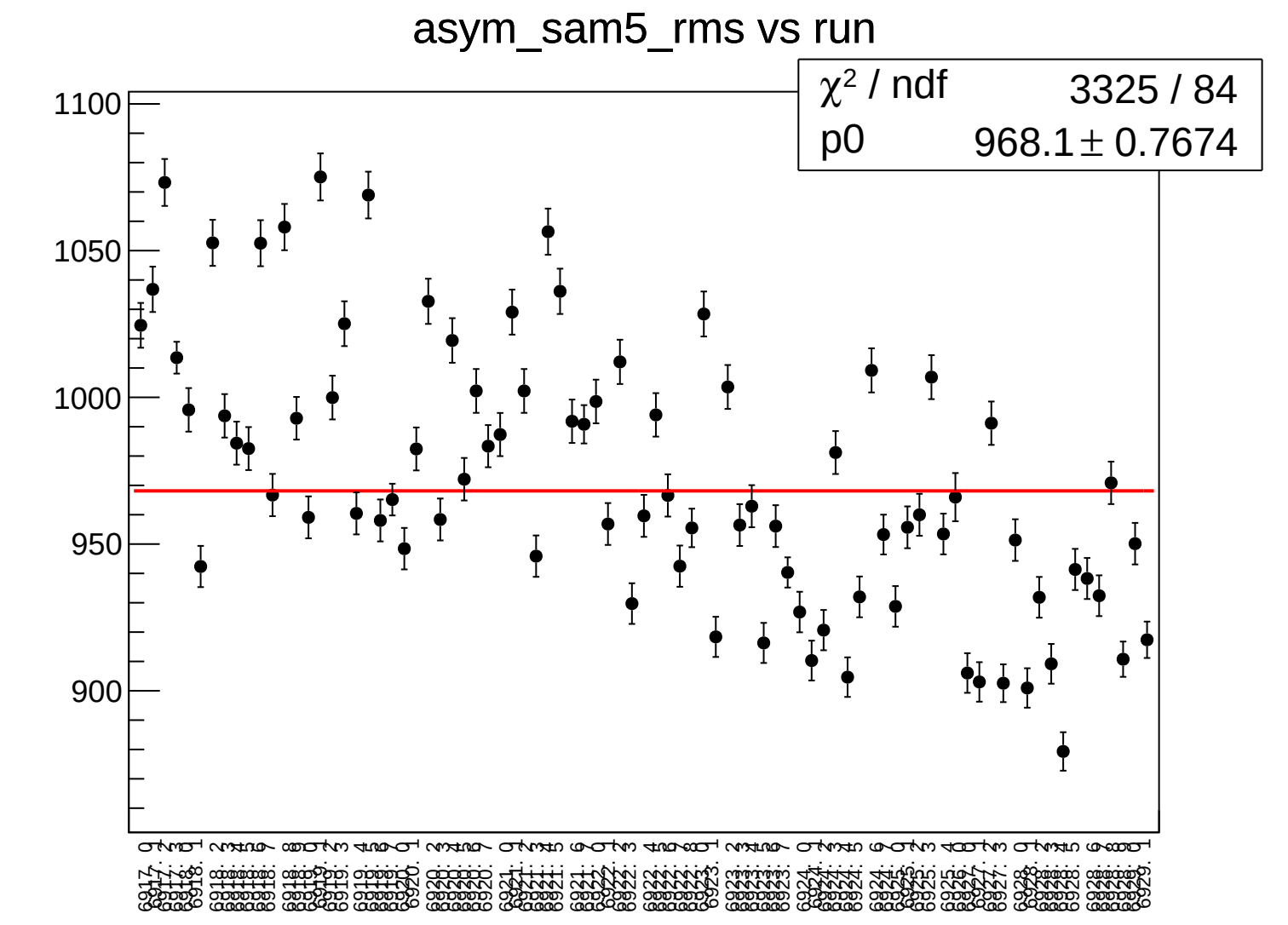

asym_sam4_mean vs run
χ² / ndf 95.44 / 84
p0 8016 ± 2797
×10³
pull
Entries 85
Mean 332.4
Std Dev 299.3

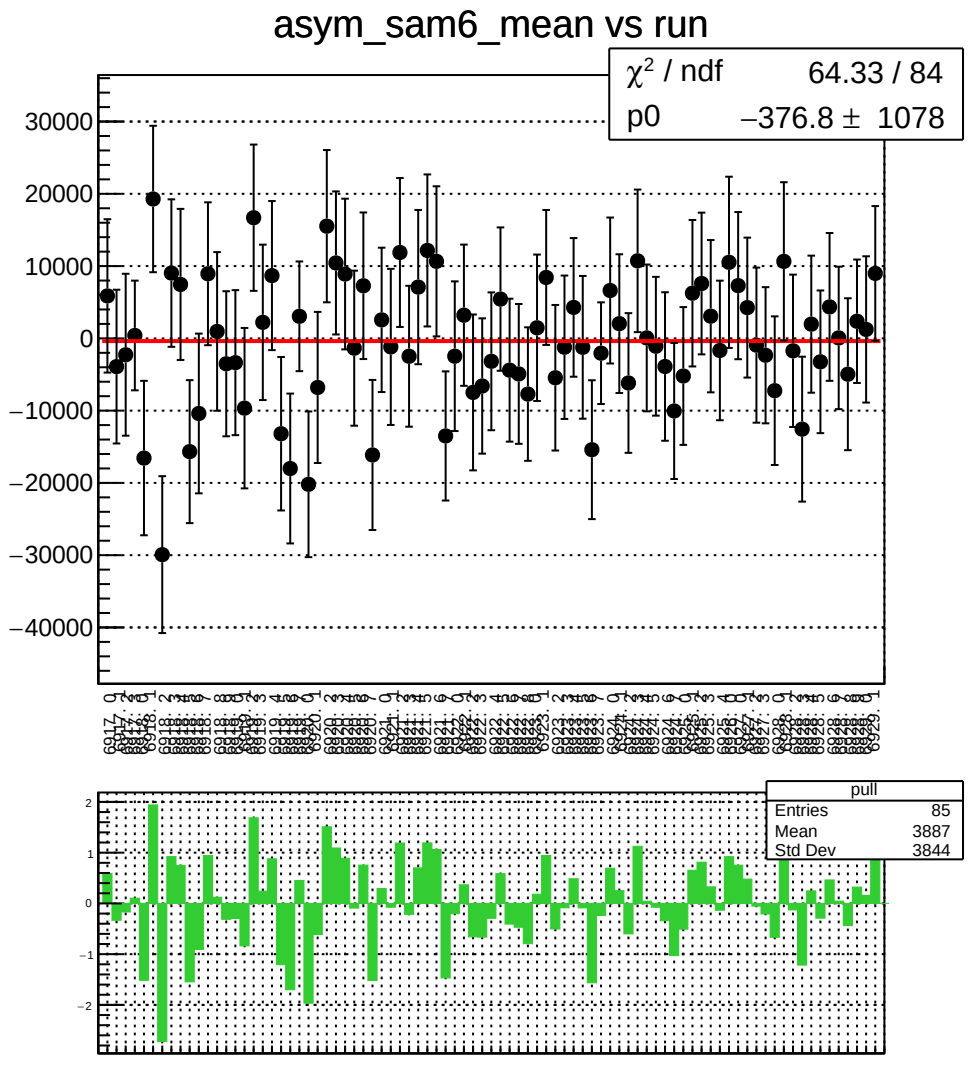

pull1D
Entries 85
Mean −0.008519
Std Dev 1.06

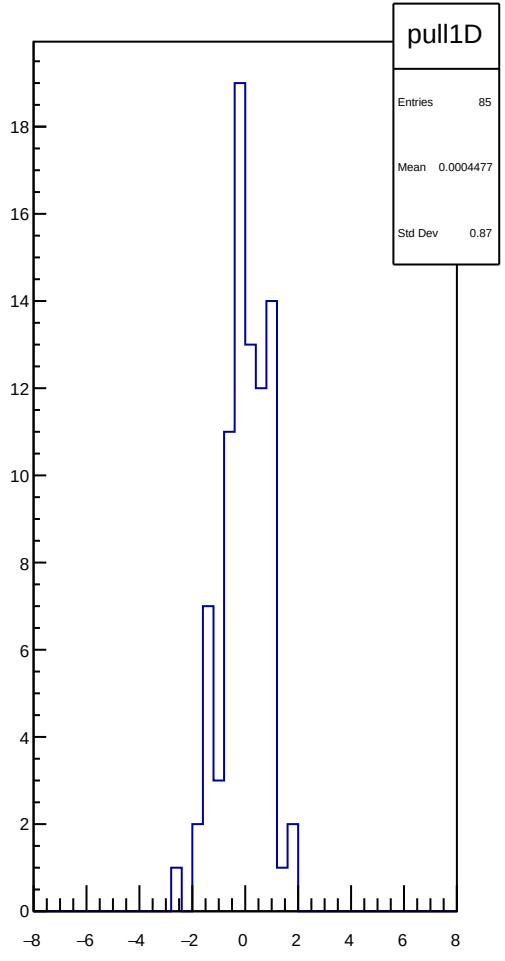

asym_sam4_rms vs run
χ^2 / ndf 2973 / 84
p0 2495 ± 1.978
2700
2600
2500
2400
2300
2200

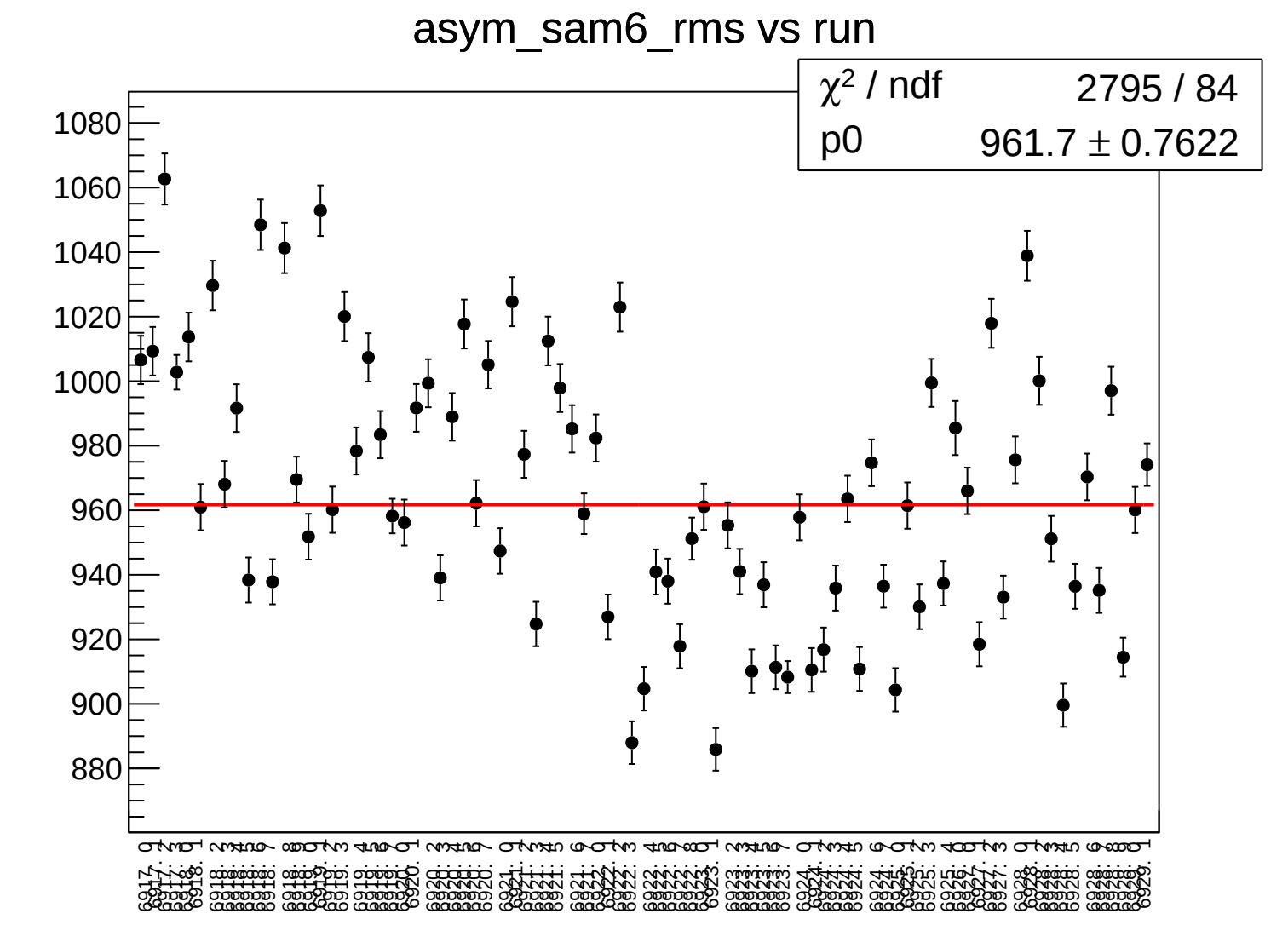

asym_sam5_mean vs run
χ² / ndf 70.07 / 84
p0 1550 ± 1085
pull
Entries 85
Mean 83.93
Std Dev 101.5

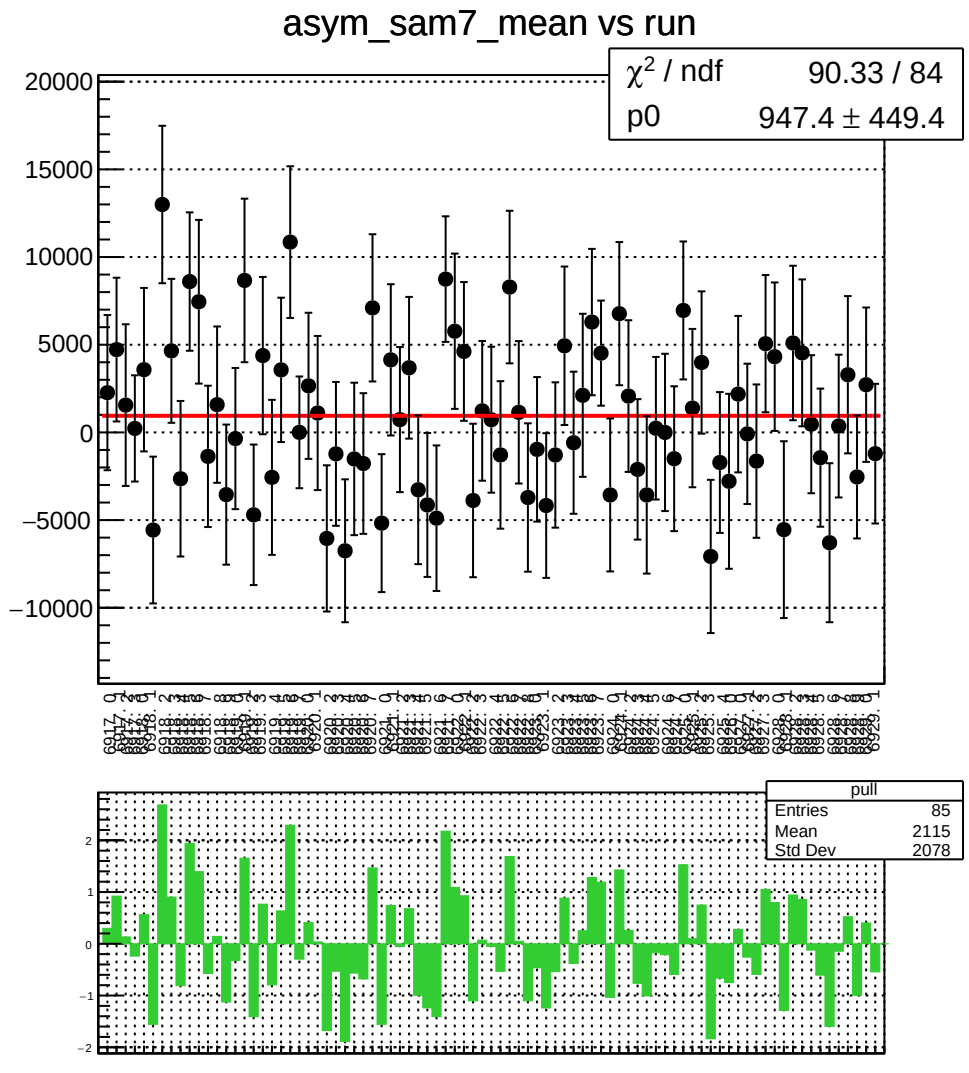

pull1D
Entries 85
Mean −0.00428
Std Dev 0.9079

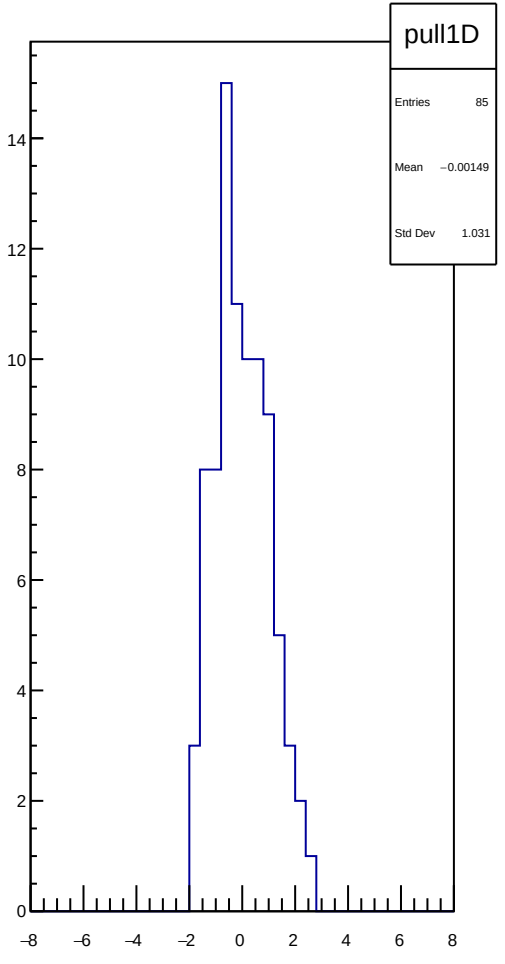

asym_sam5_rms vs run
χ² / ndf 3325 / 84
p0 968.1 ± 0.7674
1100
1050
1000
950
900

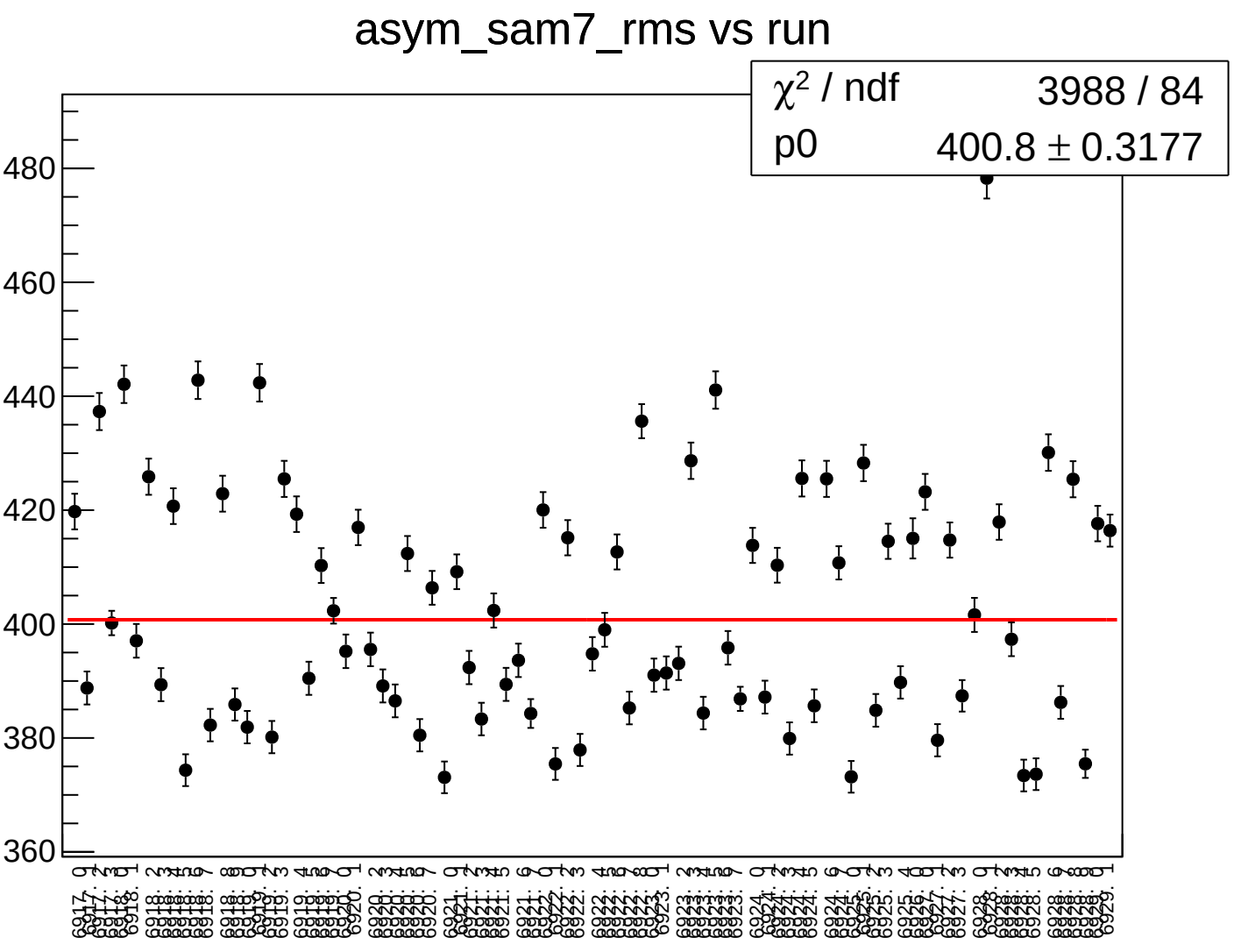

asym_sam6_mean vs run
χ² / ndf 64.33 / 84
p0 −376.8 ± 1078
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 3887
Std Dev 3844
2
1
0
−1
−2

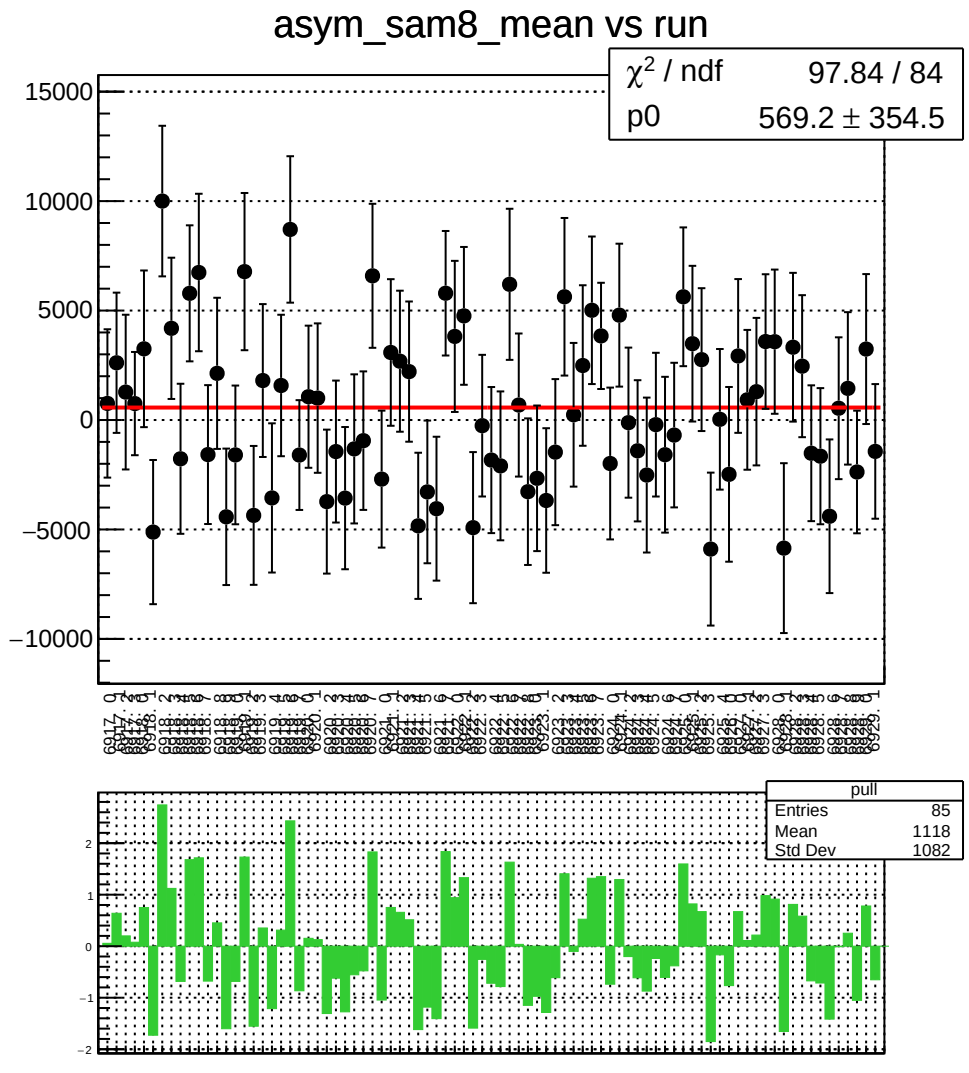

pull1D
Entries 85
Mean 0.0004477
Std Dev 0.87
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

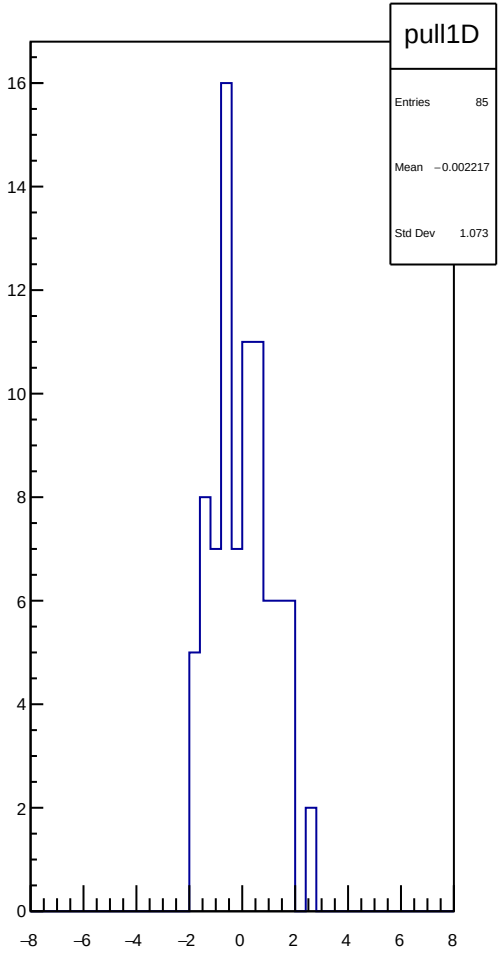

asym_sam6_rms vs run
χ² / ndf 2795 / 84
p0 961.7 ± 0.7622
1080
1060
1040
1020
1000
980
960
940
920
900
880

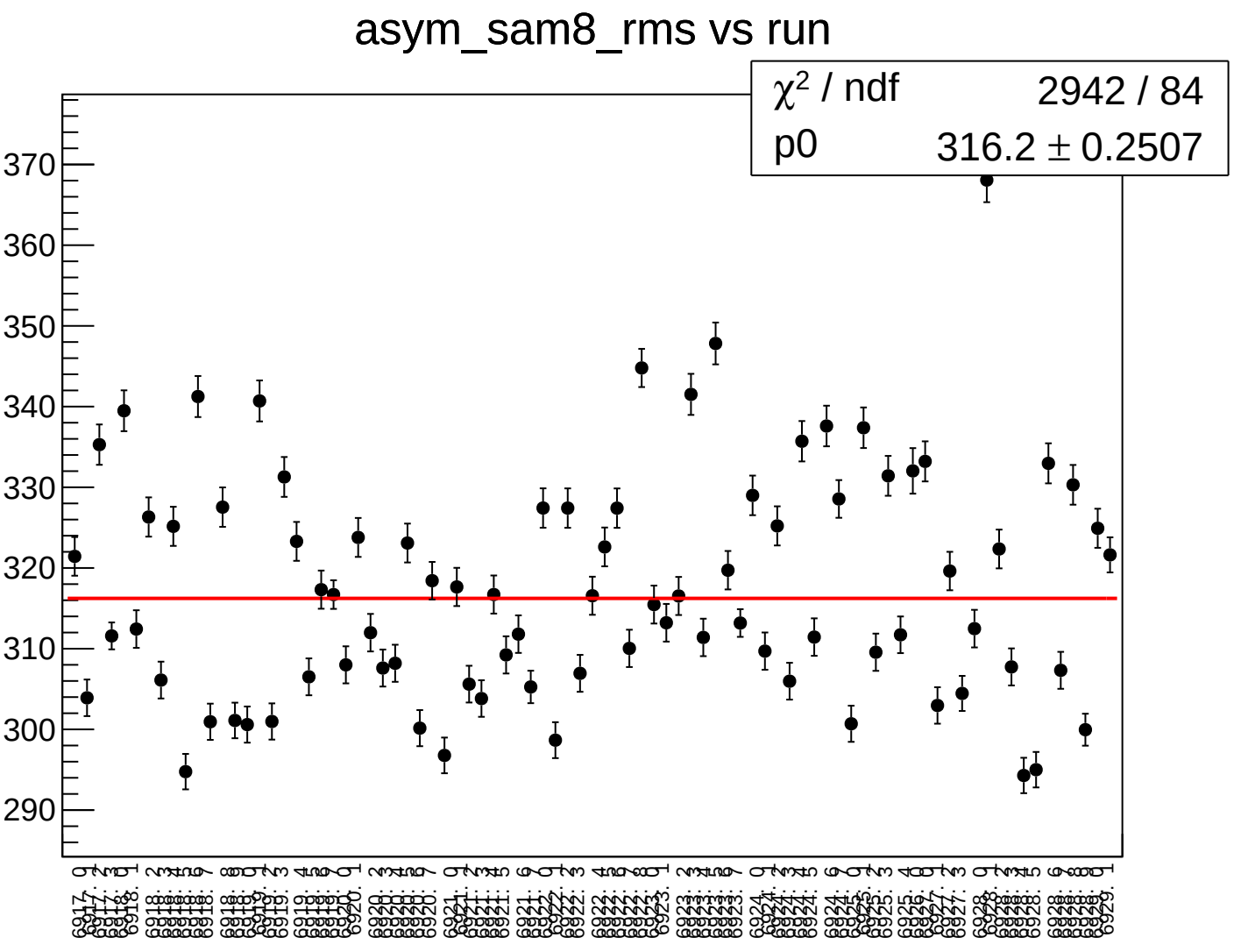

asym_sam7_mean vs run
χ² / ndf 90.33 / 84
p0 947.4 ± 449.4
pull
Entries 85
Mean 2115
Std Dev 2078

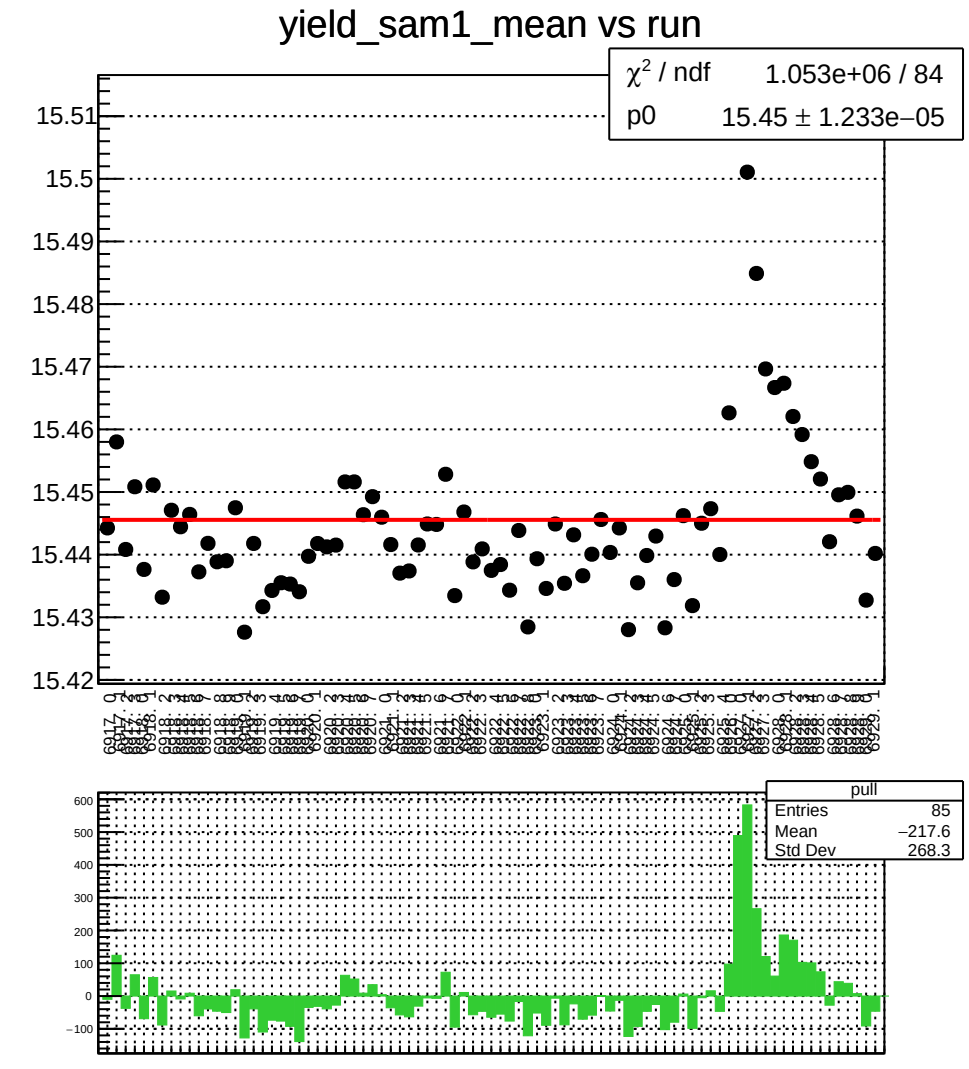

pull1D
Entries 85
Mean −0.00149
Std Dev 1.031

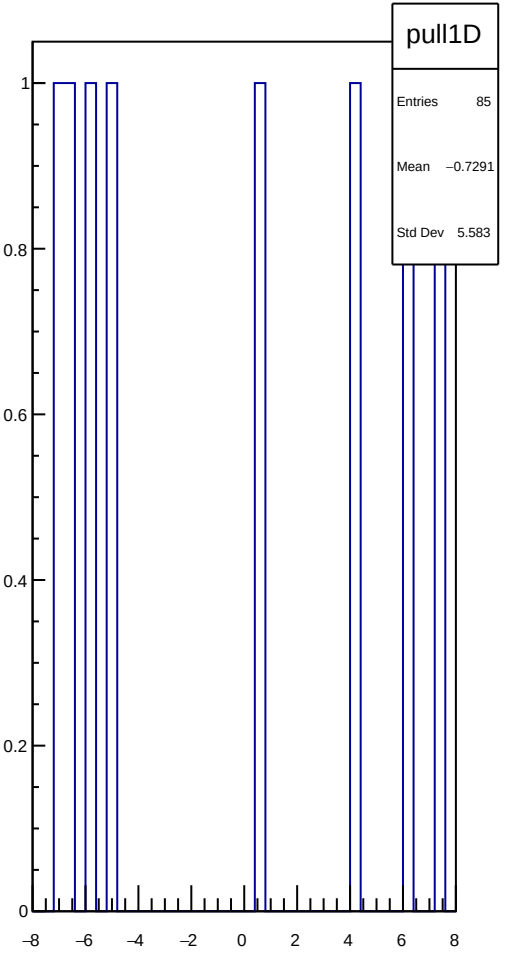

asym_sam7_rms vs run
χ² / ndf 3988 / 84
p0 400.8 ± 0.3177
480
460
440
420
400
380
360

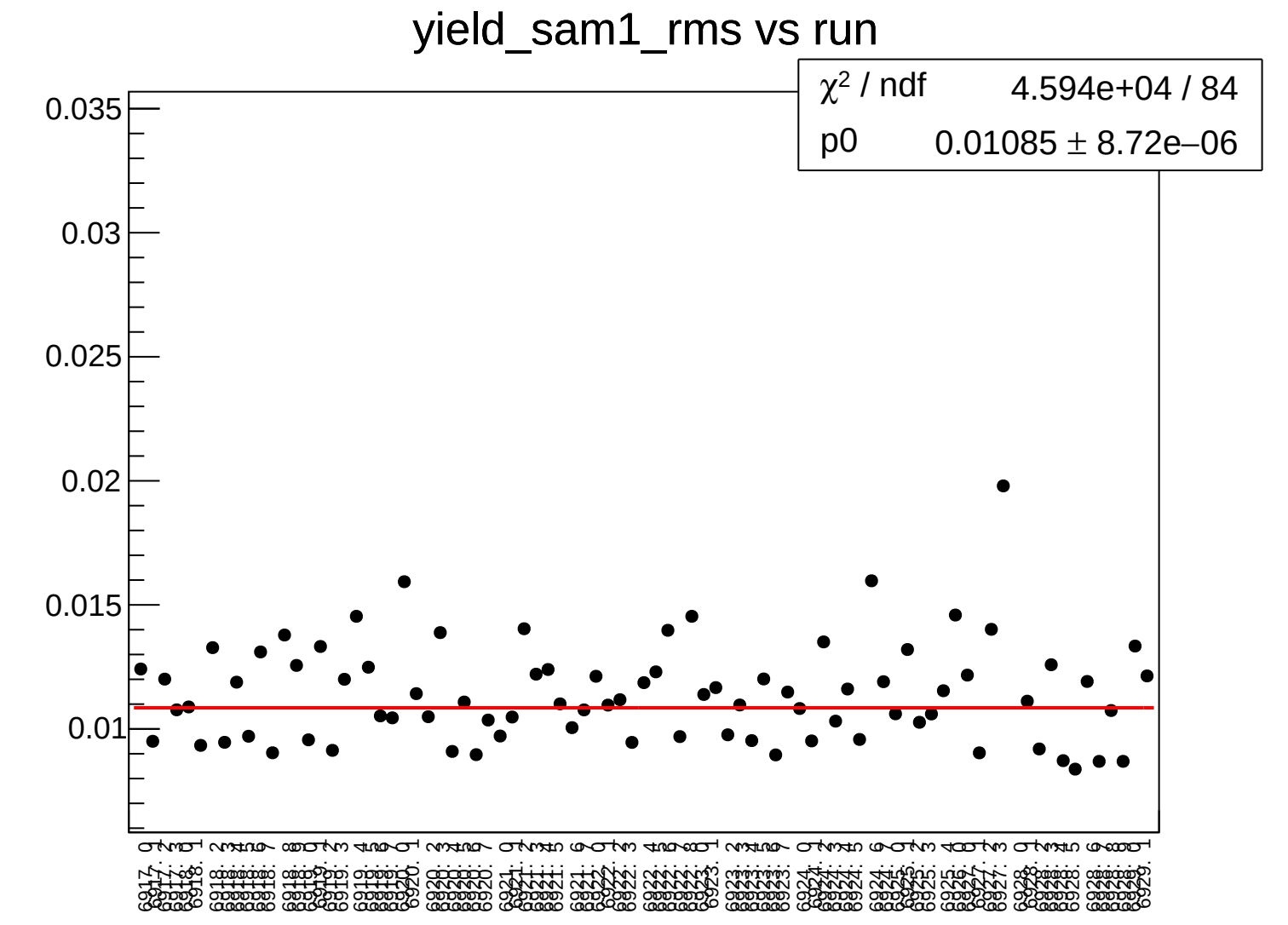

asym_sam8_mean vs run
χ² / ndf 97.84 / 84
p0 569.2 ± 354.5
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1118
Std Dev 1082
2
1
0
−1
−2

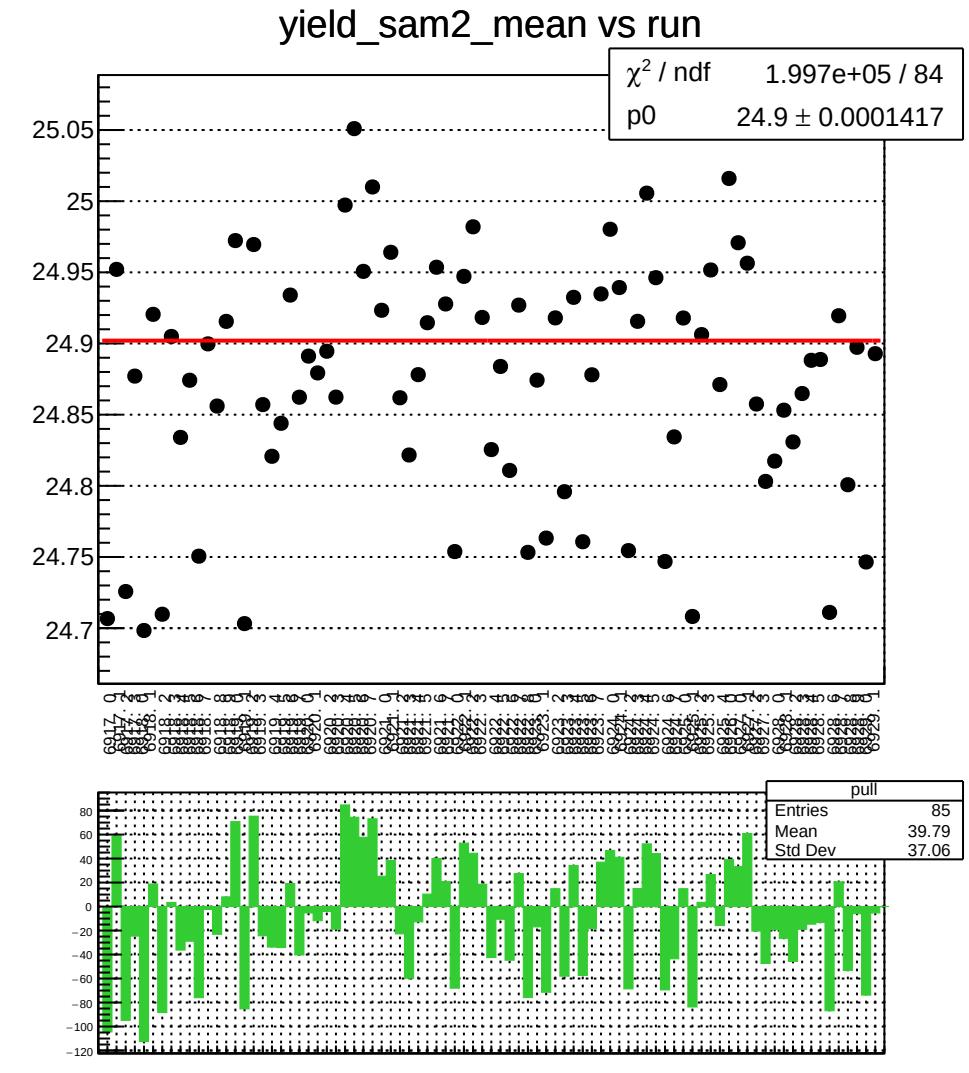

pull1D
Entries 85
Mean −0.002217
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

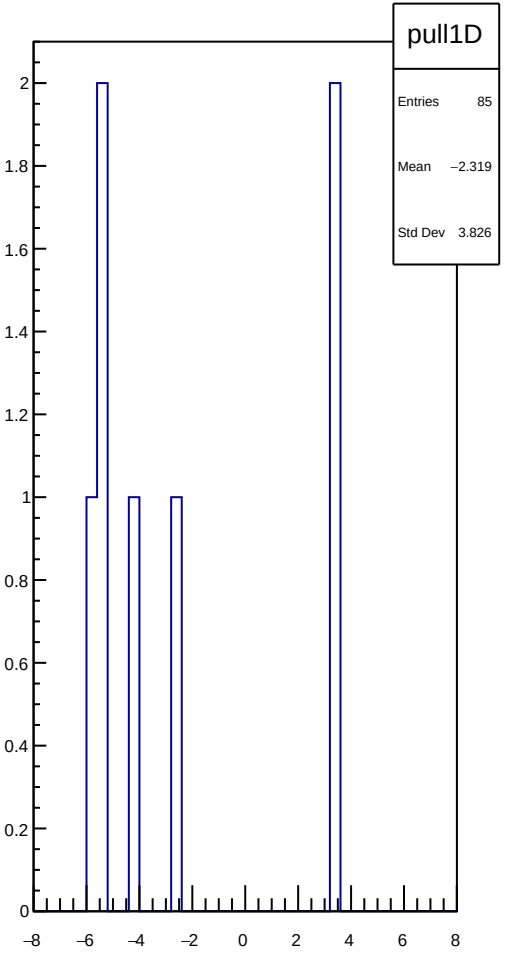

asym_sam8_rms vs run
χ² / ndf 2942 / 84
p0 316.2 ± 0.2507
370
360
350
340
330
320
310
300
290

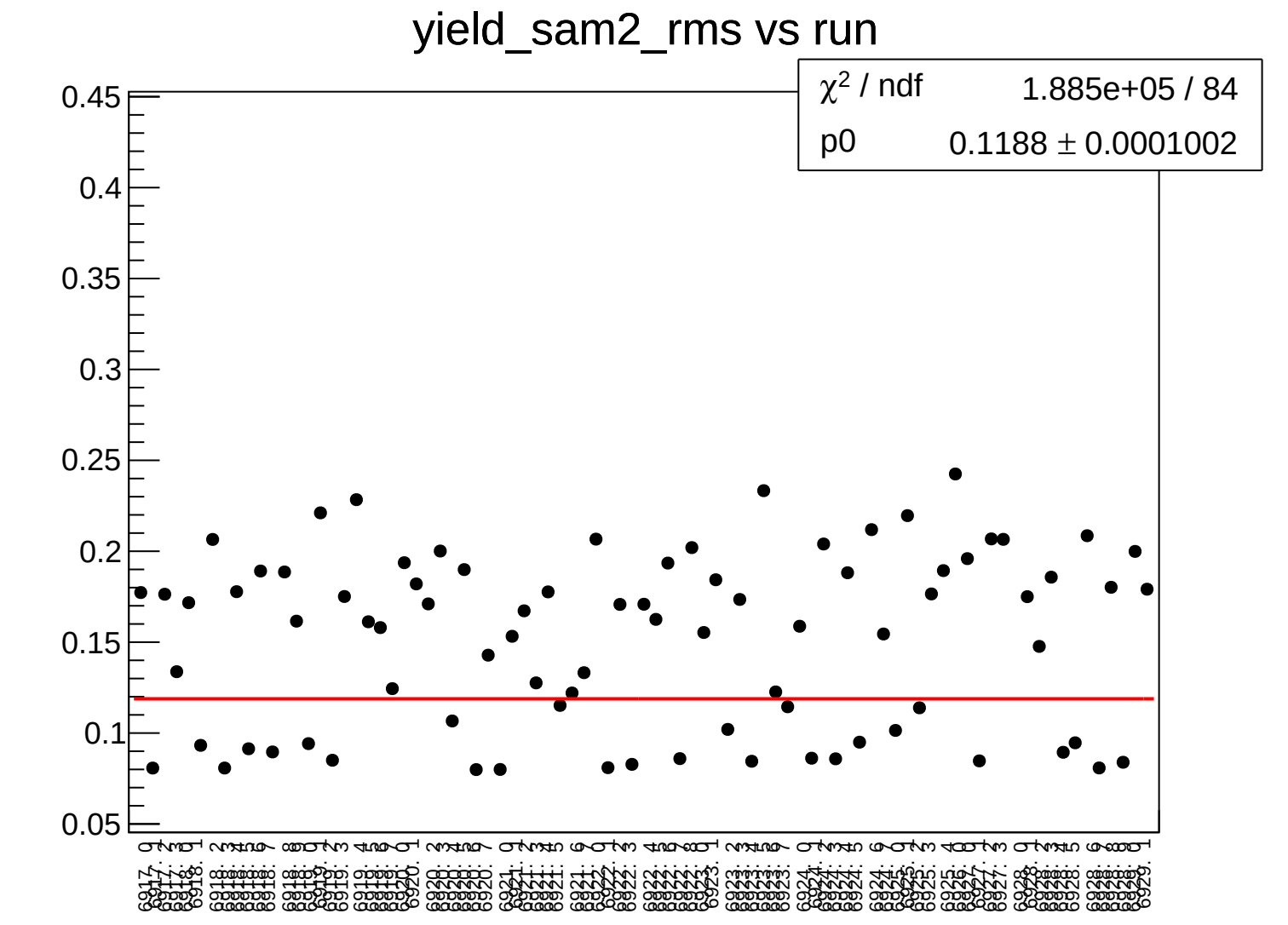

yield_sam1_mean vs run
χ² / ndf 1.053e+06 / 84
p0 15.45 ± 1.233e−05
15.51
15.5
15.49
15.48
15.47
15.46
15.45
15.44
15.43
15.42
pull
Entries 85
Mean −217.6
Std Dev 268.3
600
500
400
300
200
100
0
−100

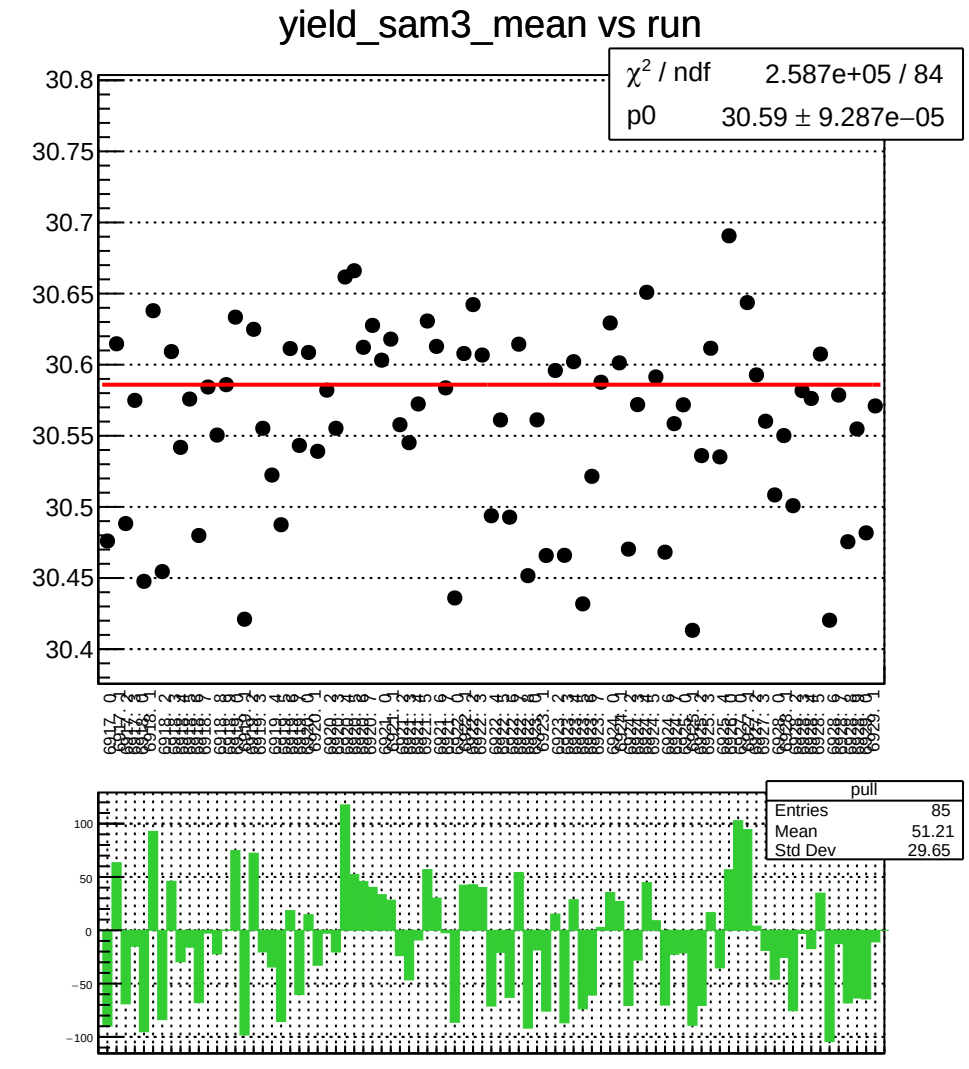

pull1D
Entries 85
Mean −0.7291
Std Dev 5.583
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

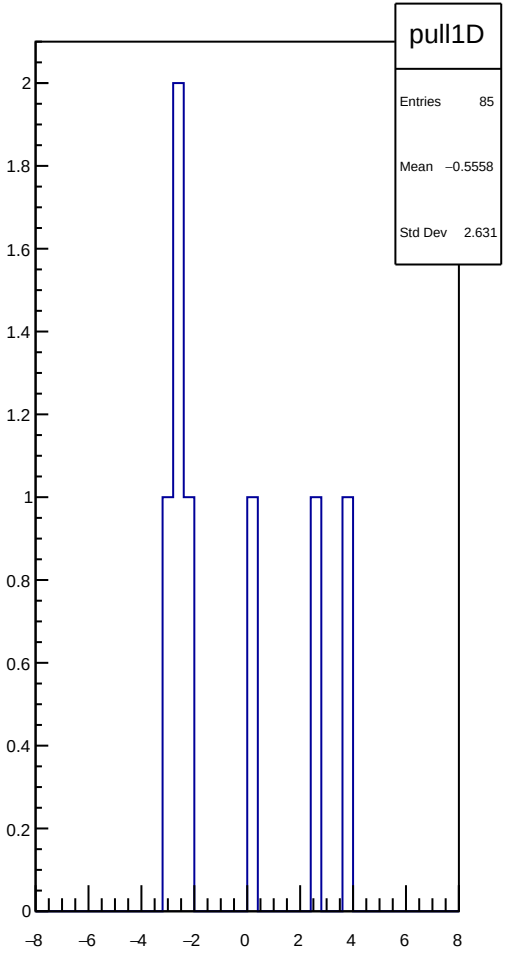

yield_sam1_rms vs run
χ² / ndf 4.594e+04 / 84
p0 0.01085 ± 8.72e−06
0.035
0.03
0.025
0.02
0.015
0.01

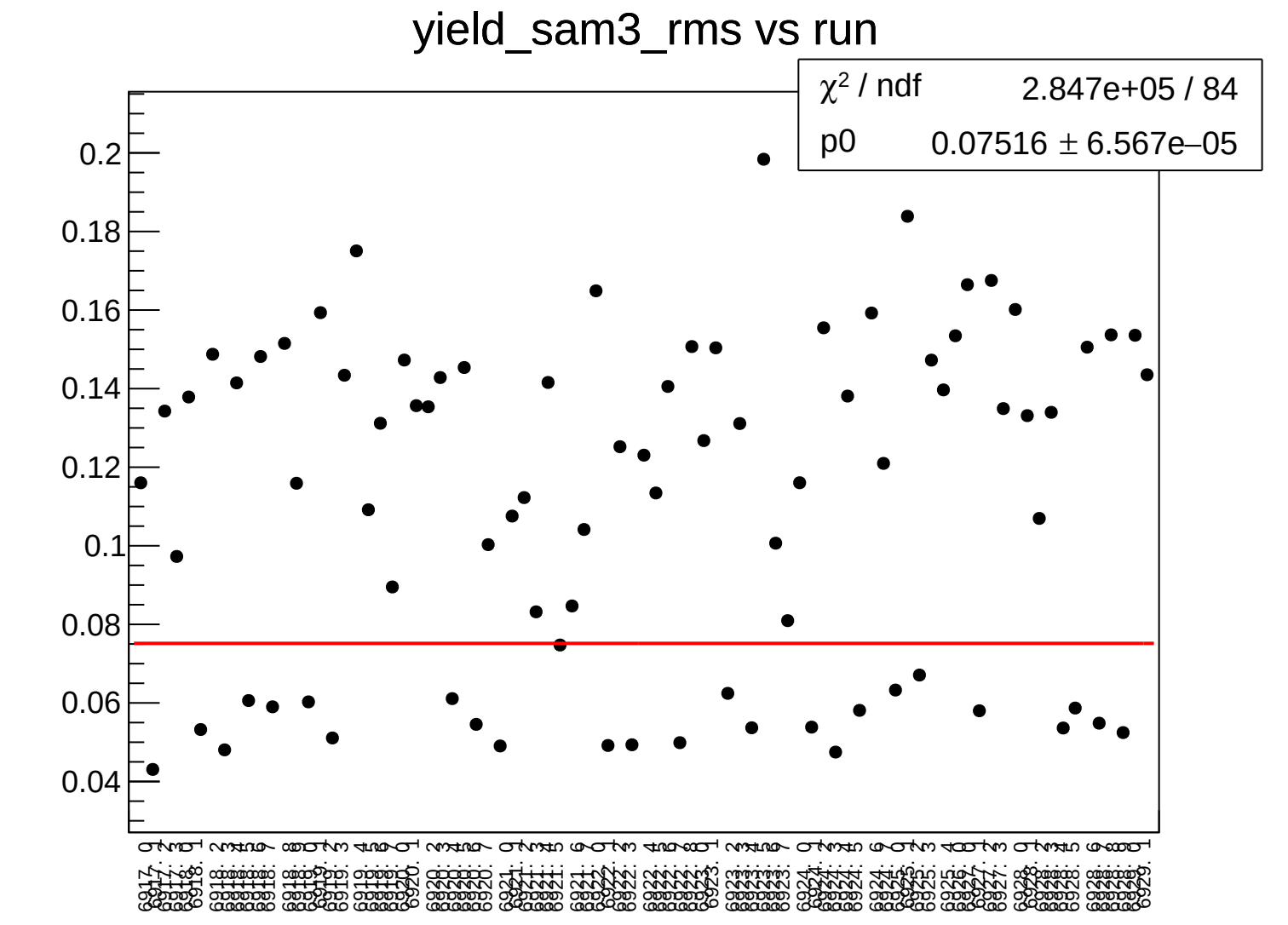

yield_sam2_mean vs run
χ² / ndf 1.997e+05 / 84
p0 24.9 ± 0.0001417
25.05
25
24.95
24.9
24.85
24.8
24.75
24.7
pull
Entries 85
Mean 39.79
Std Dev 37.06
80
60
40
20
0
−20
−40
−60
−80
−100
−120

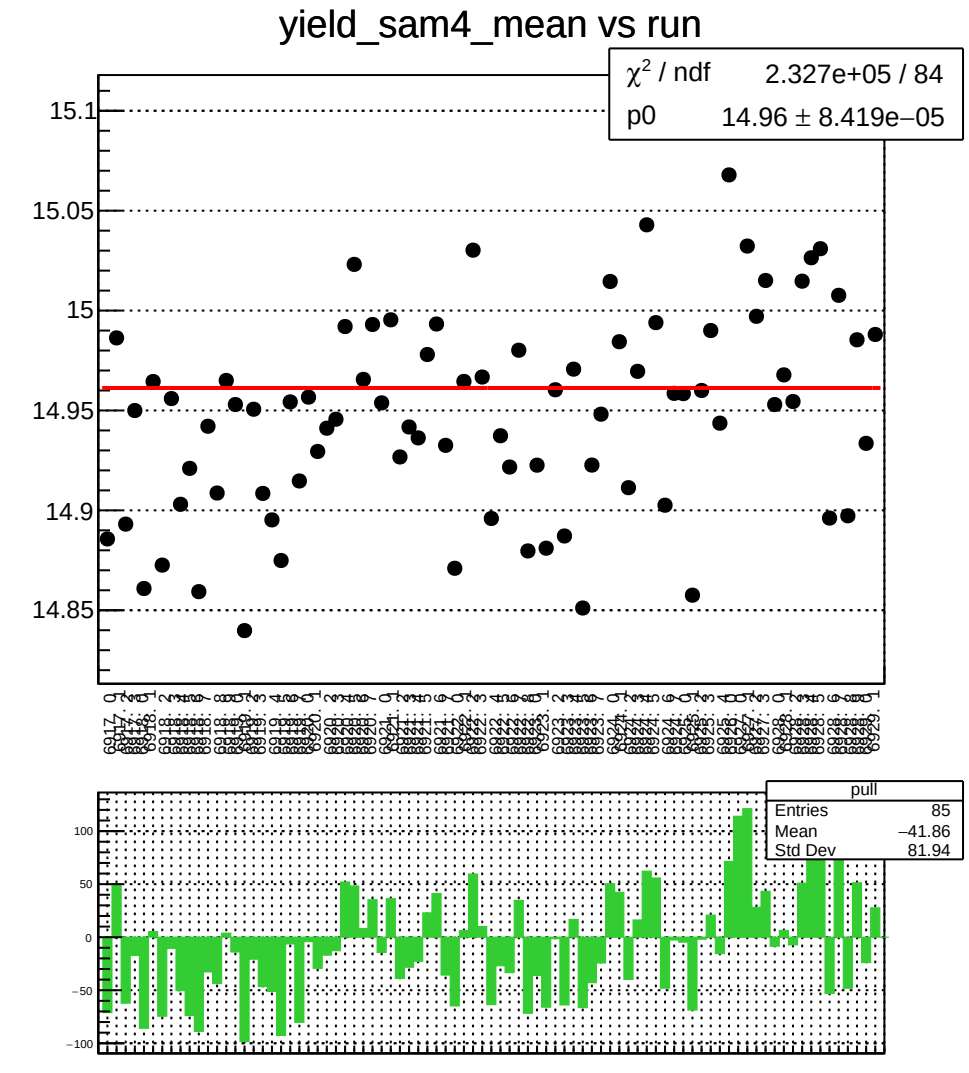

pull1D
Entries 85
Mean −2.319
Std Dev 3.826
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

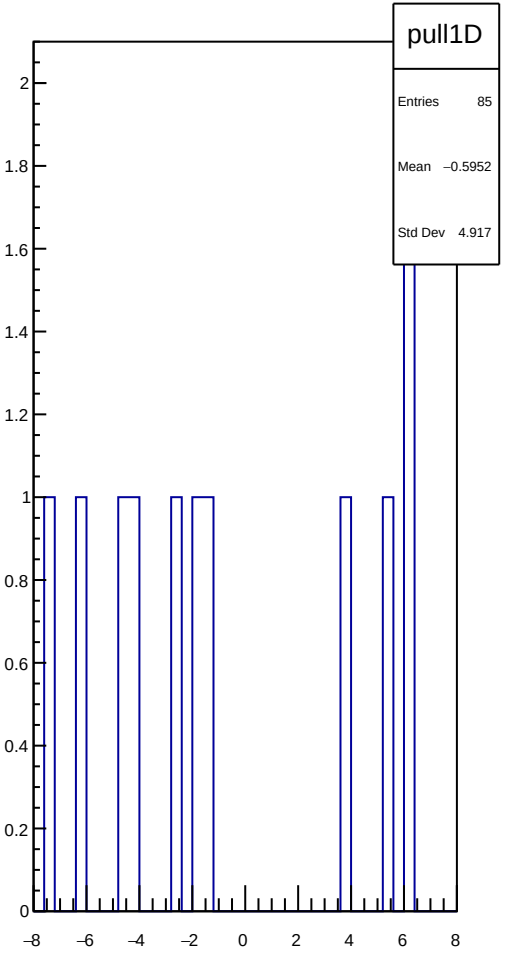

yield_sam2_rms vs run
χ² / ndf 1.885e+05 / 84
p0 0.1188 ± 0.0001002
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

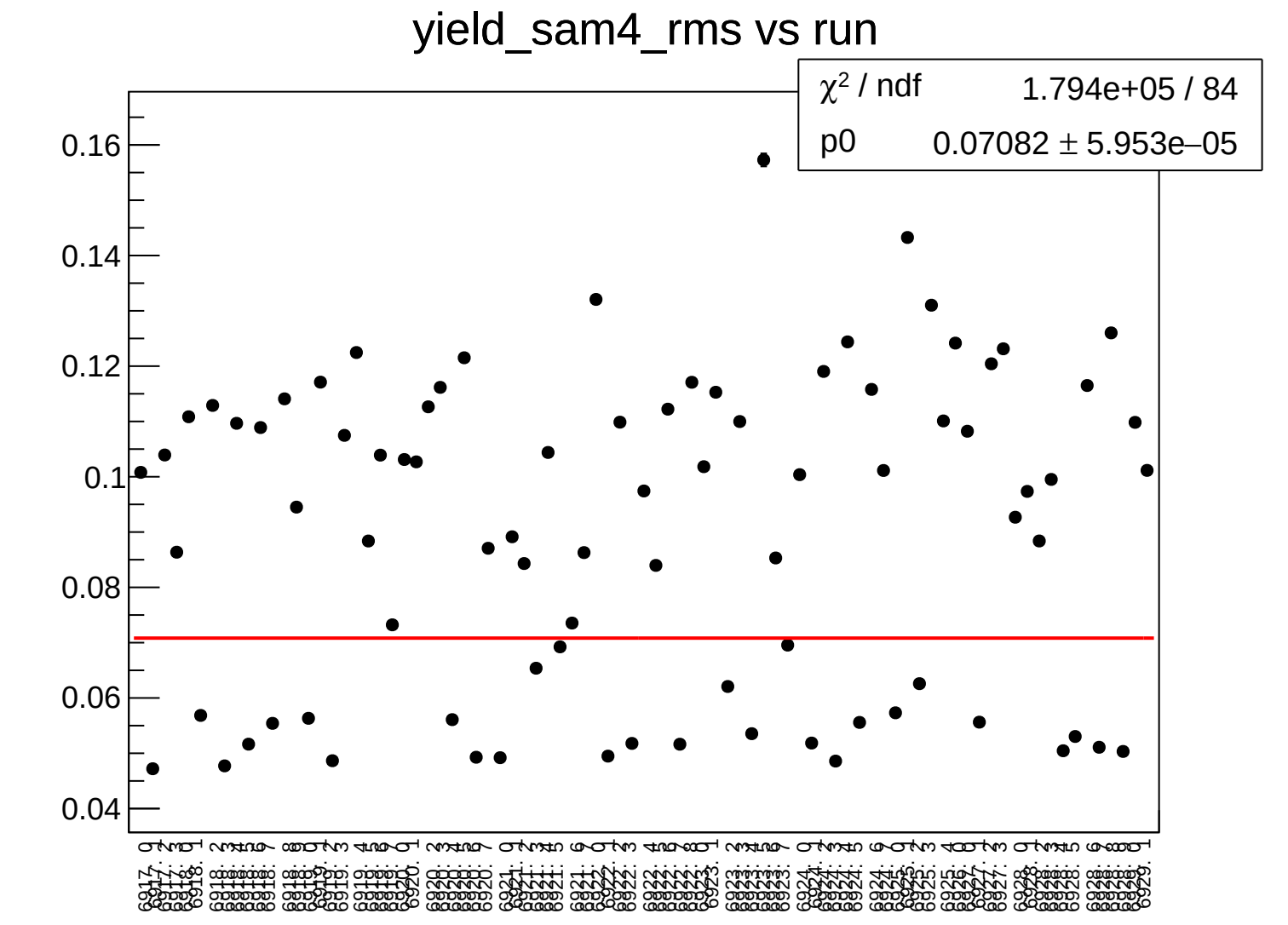

yield_sam3_mean vs run
χ² / ndf 2.587e+05 / 84
p0 30.59 ± 9.287e−05
30.8
30.75
30.7
30.65
30.6
30.55
30.5
30.45
30.4
pull
Entries 85
Mean 51.21
Std Dev 29.65
100
50
0
−50
−100

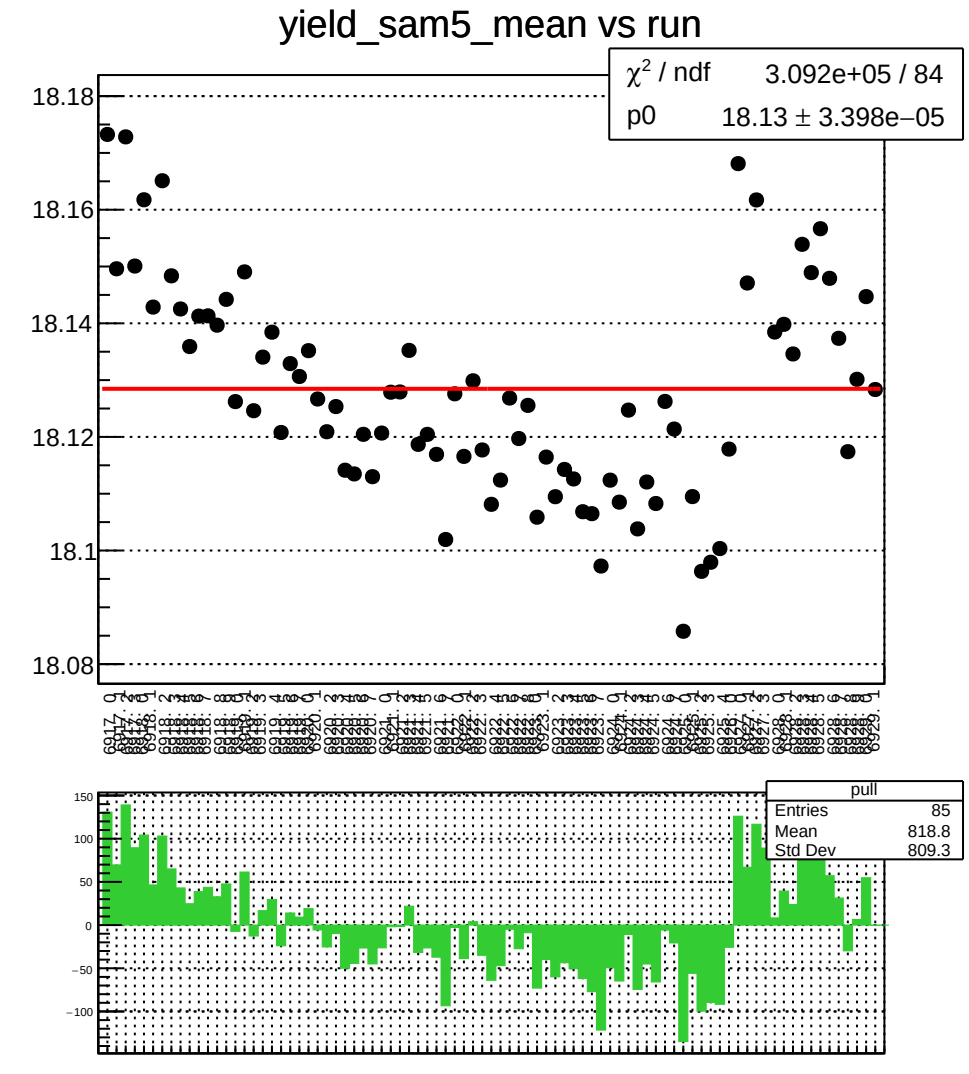

pull1D
Entries 85
Mean −0.5558
Std Dev 2.631
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

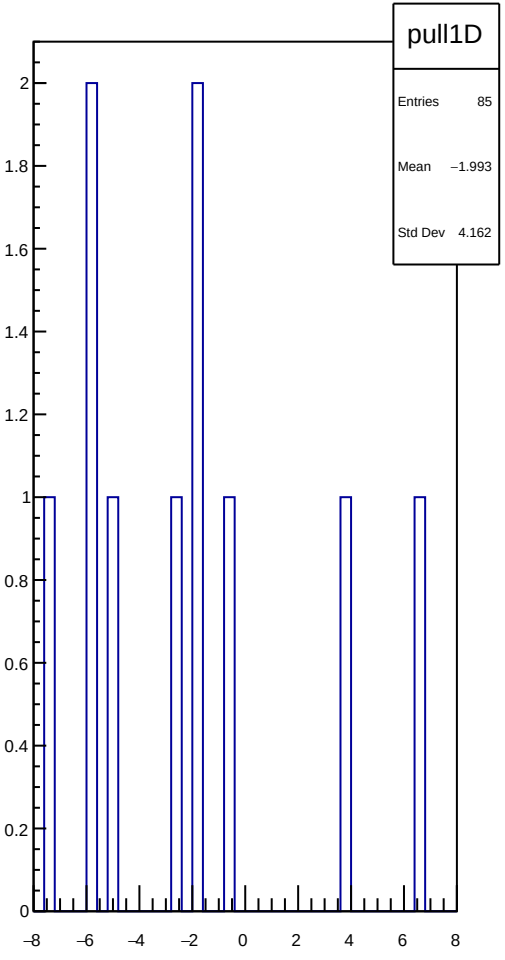

yield_sam3_rms vs run
χ² / ndf 2.847e+05 / 84
p0 0.07516 ± 6.567e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

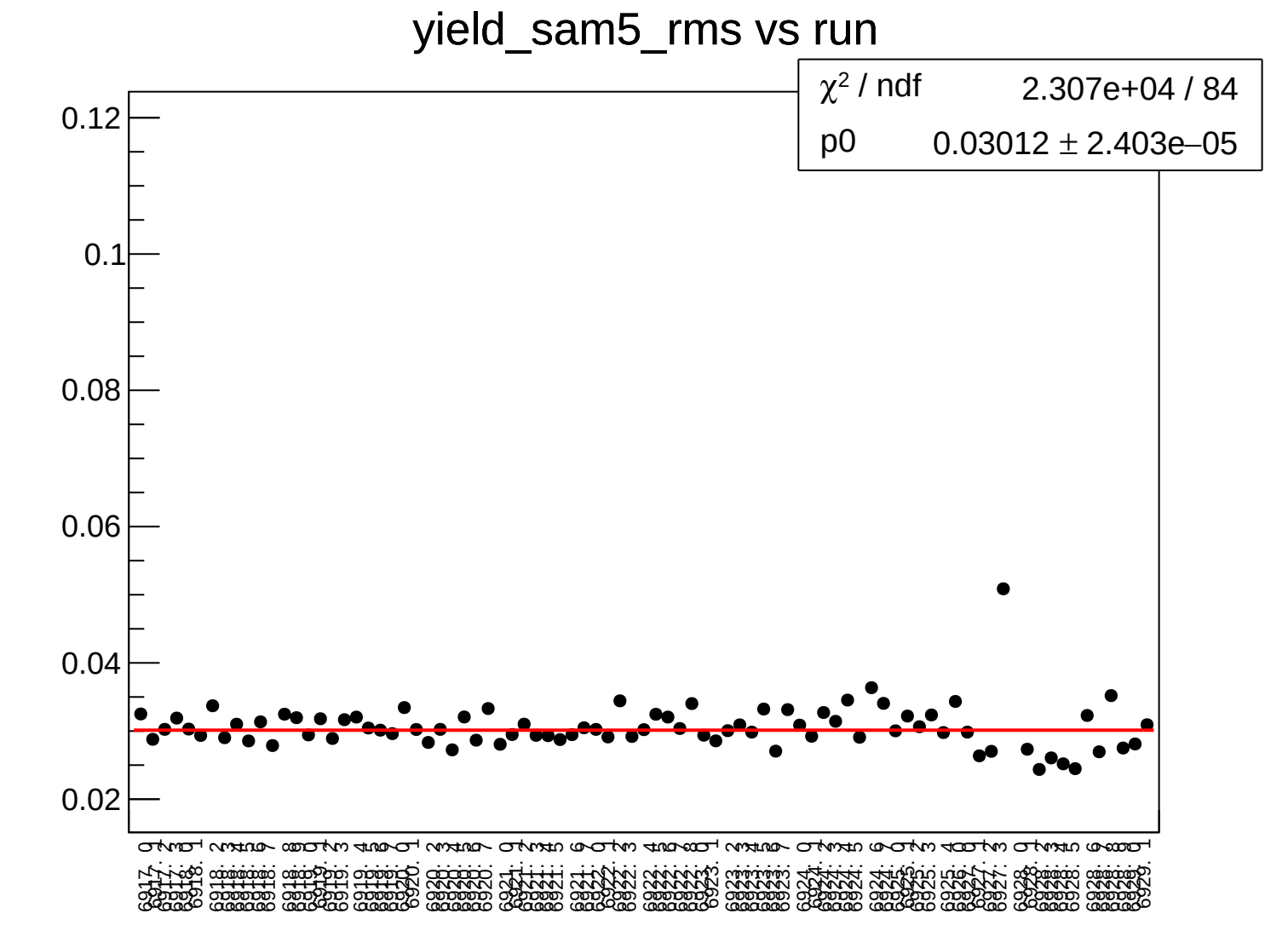

yield_sam4_mean vs run
χ² / ndf 2.327e+05 / 84
p0 14.96 ± 8.419e−05
15.1
15.05
15
14.95
14.9
14.85
pull
Entries 85
Mean −41.86
Std Dev 81.94
100
50
0
−50
−100

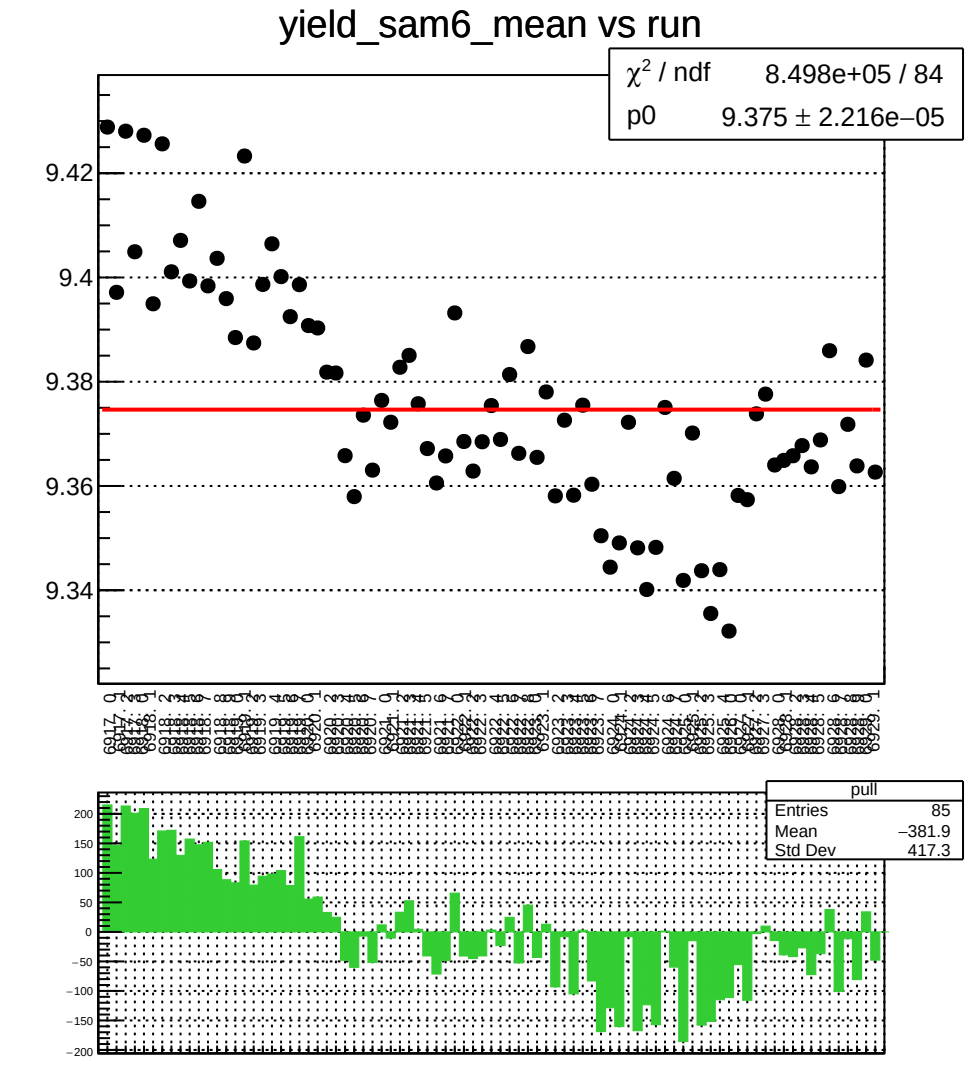

pull1D
Entries 85
Mean −0.5952
Std Dev 4.917
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

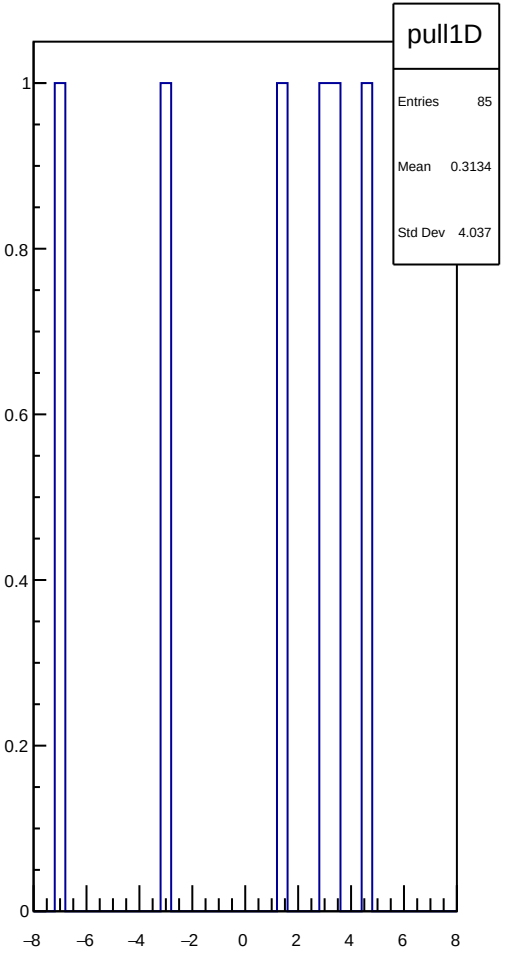

yield_sam4_rms vs run
χ² / ndf 1.794e+05 / 84
p0 0.07082 ± 5.953e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

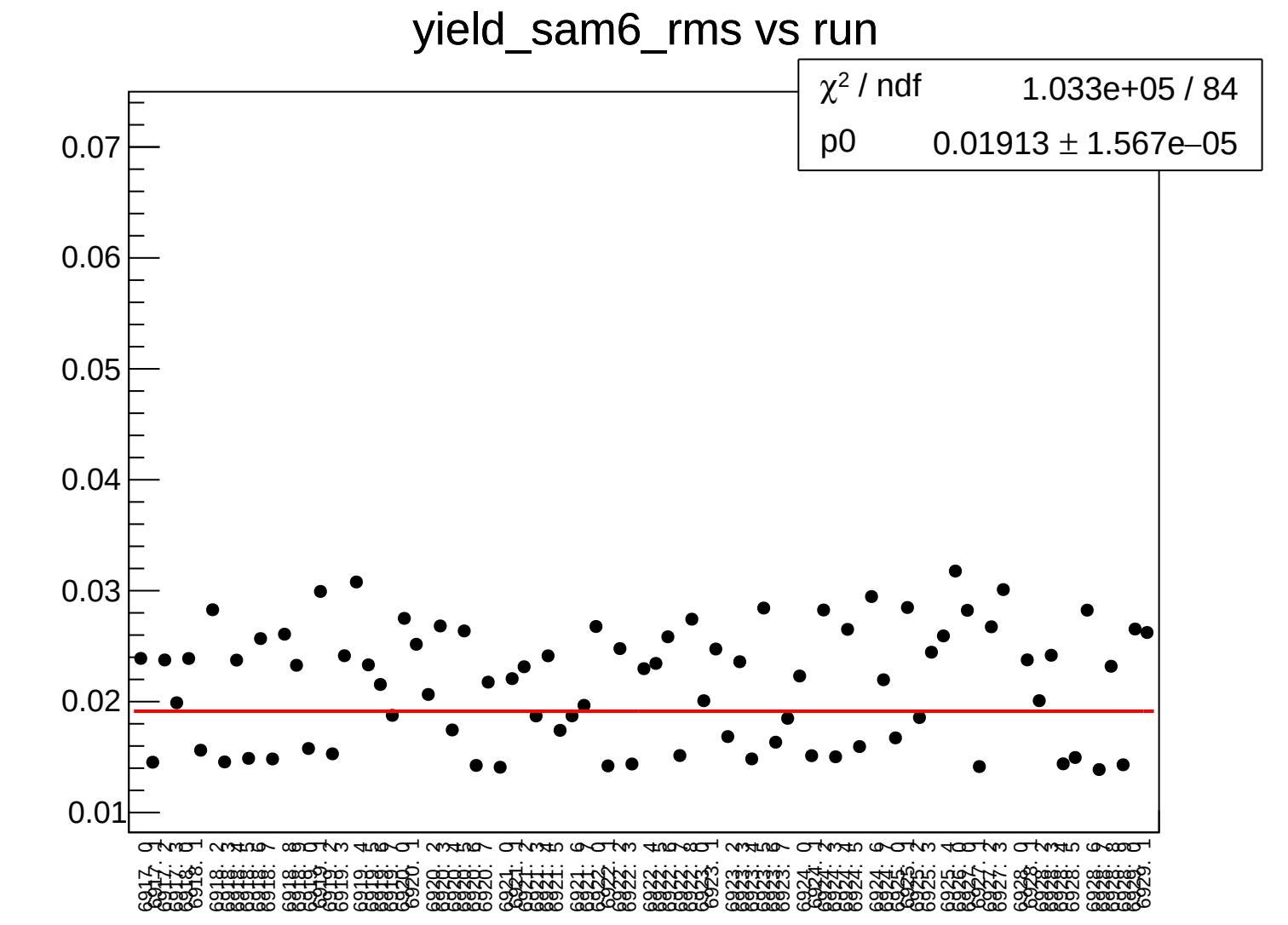

yield_sam5_mean vs run
χ² / ndf 3.092e+05 / 84
p0 18.13 ± 3.398e−05
18.18
18.16
18.14
18.12
18.1
18.08
pull
Entries 85
Mean 818.8
Std Dev 809.3
150
100
50
0
−50
−100

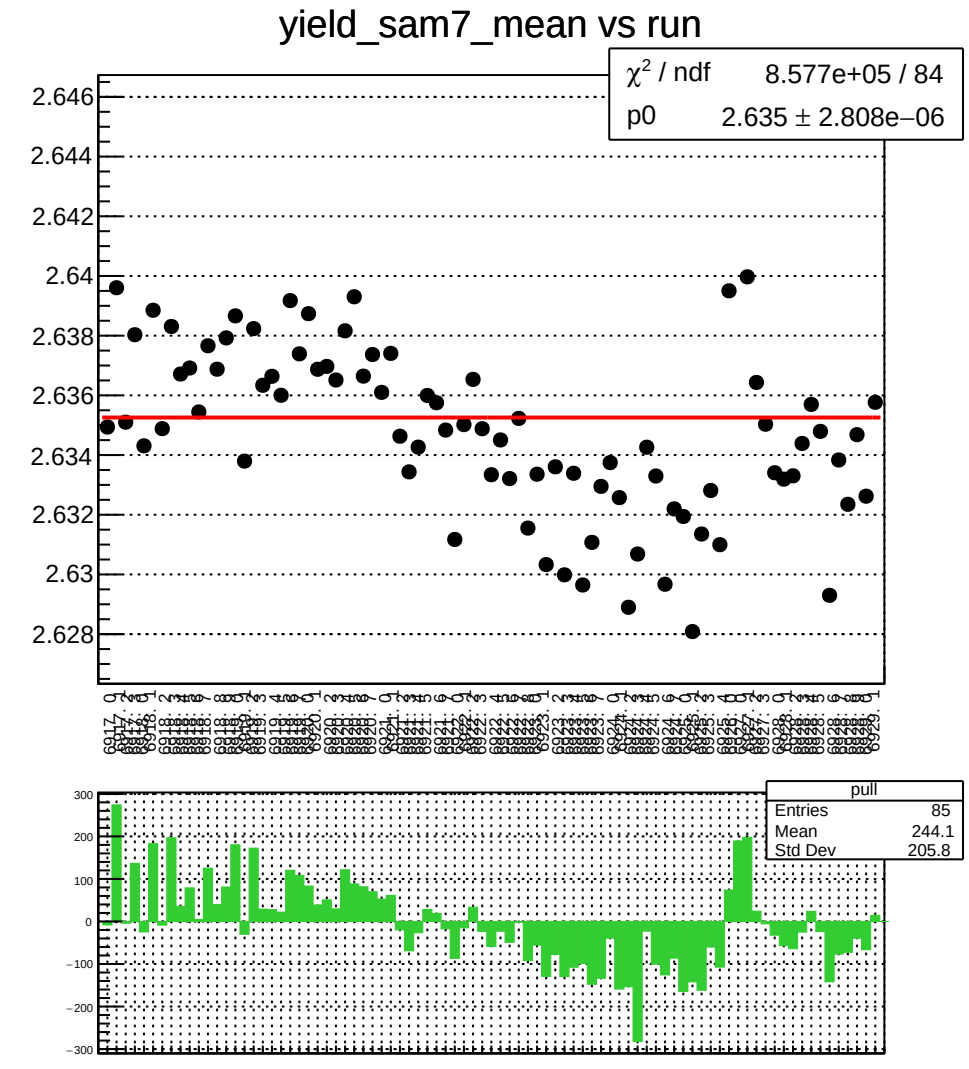

pull1D
Entries 85
Mean −1.993
Std Dev 4.162
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

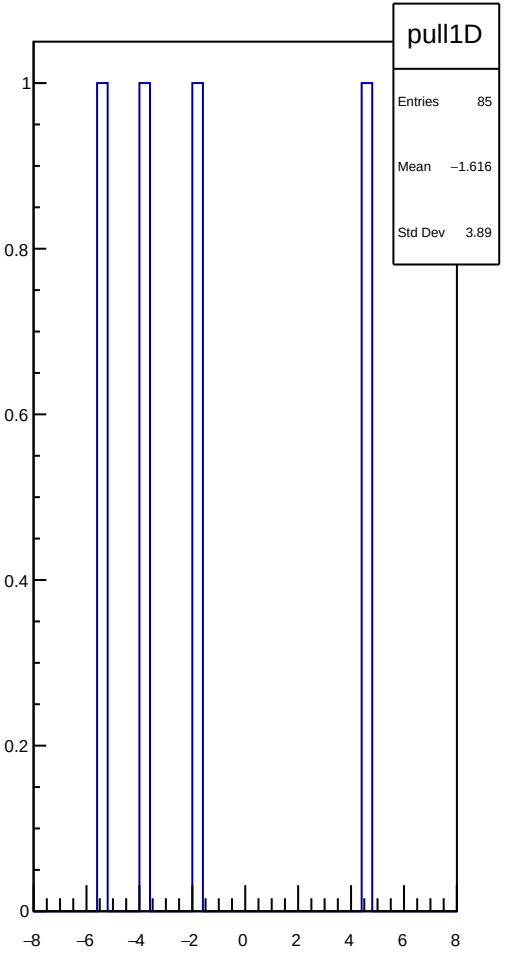

yield_sam5_rms vs run
χ² / ndf 2.307e+04 / 84
p0 0.03012 ± 2.403e–05
0.12
0.1
0.08
0.06
0.04
0.02

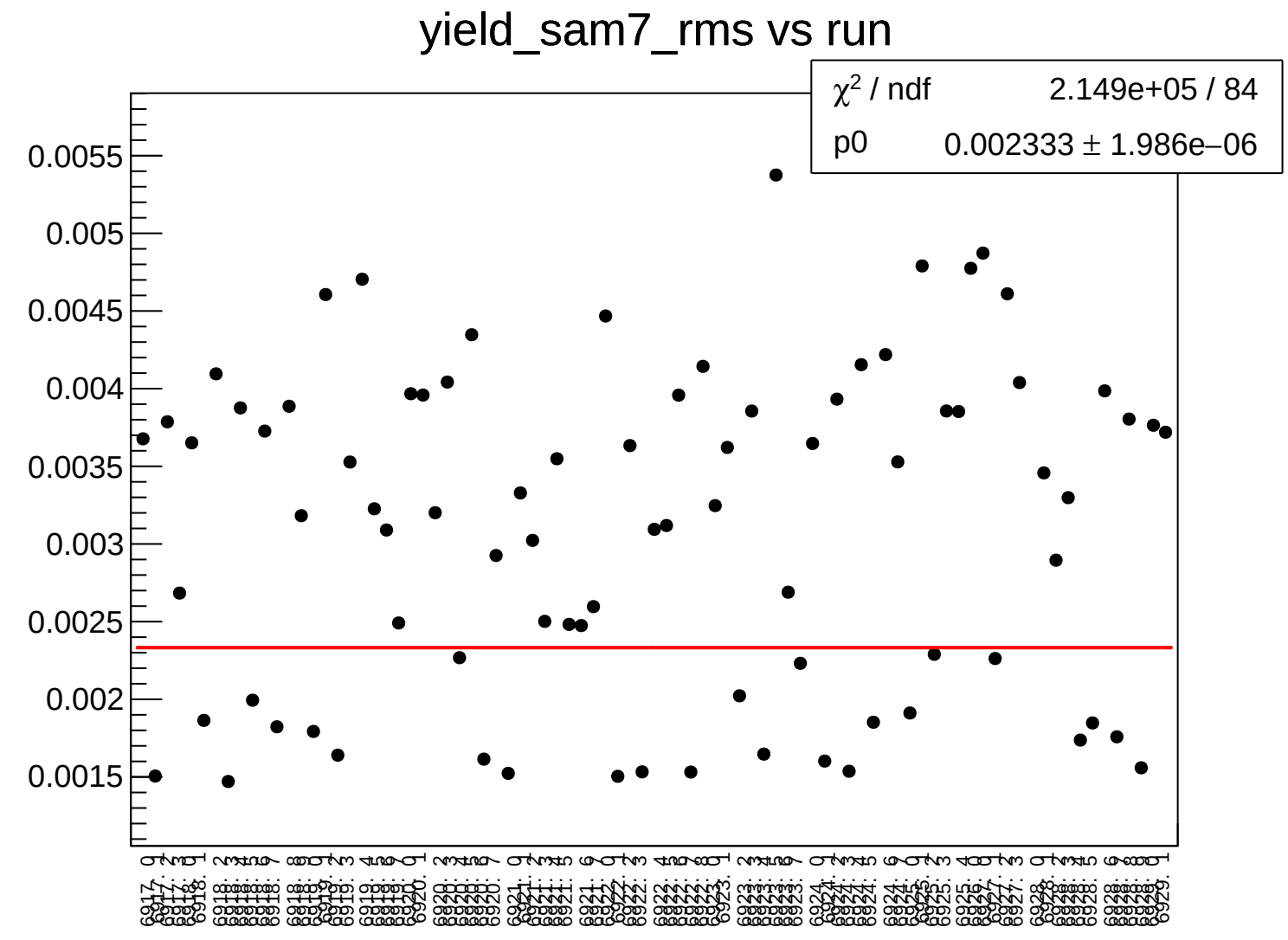

yield_sam6_mean vs run
χ² / ndf 8.498e+05 / 84
p0 9.375 ± 2.216e−05
9.42
9.4
9.38
9.36
9.34
pull
Entries 85
Mean −381.9
Std Dev 417.3
200
150
100
50
0
−50
−100
−150
−200

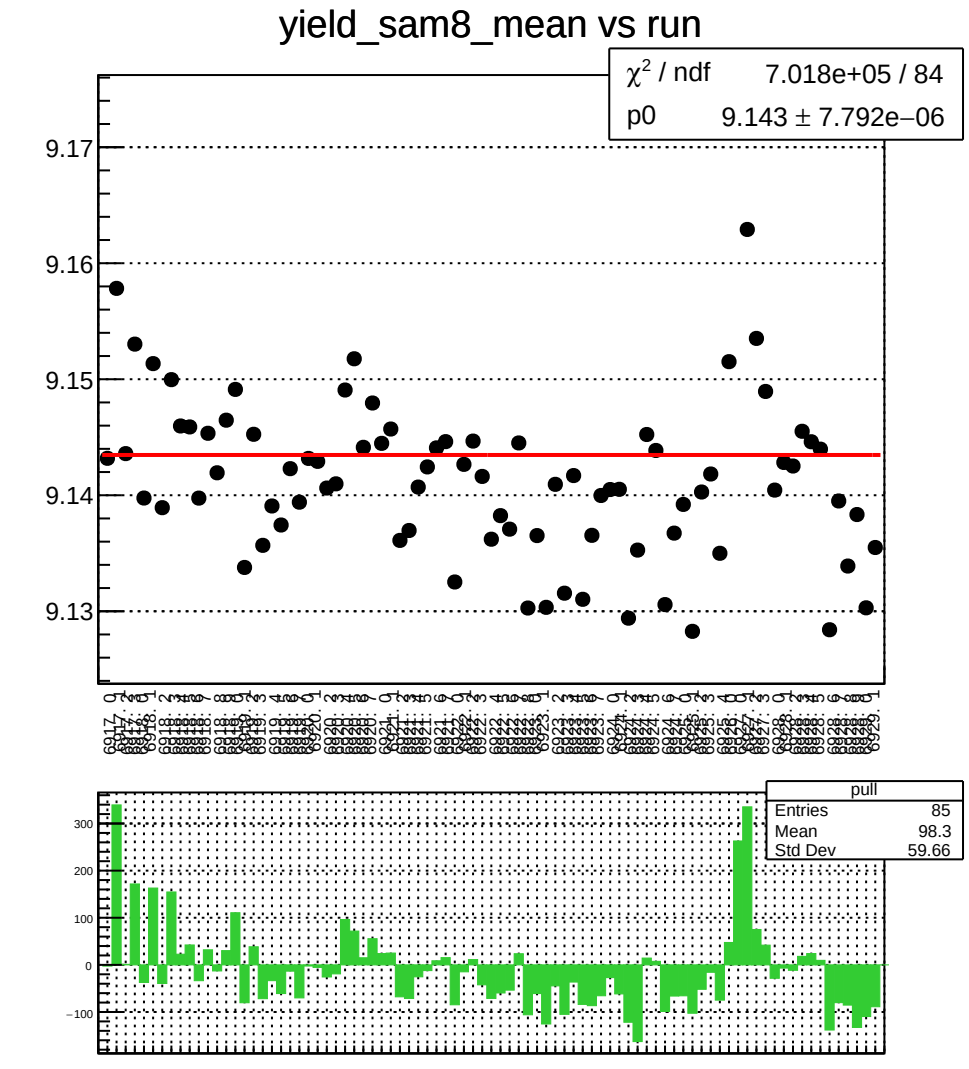

pull1D
Entries 85
Mean 0.3134
Std Dev 4.037
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

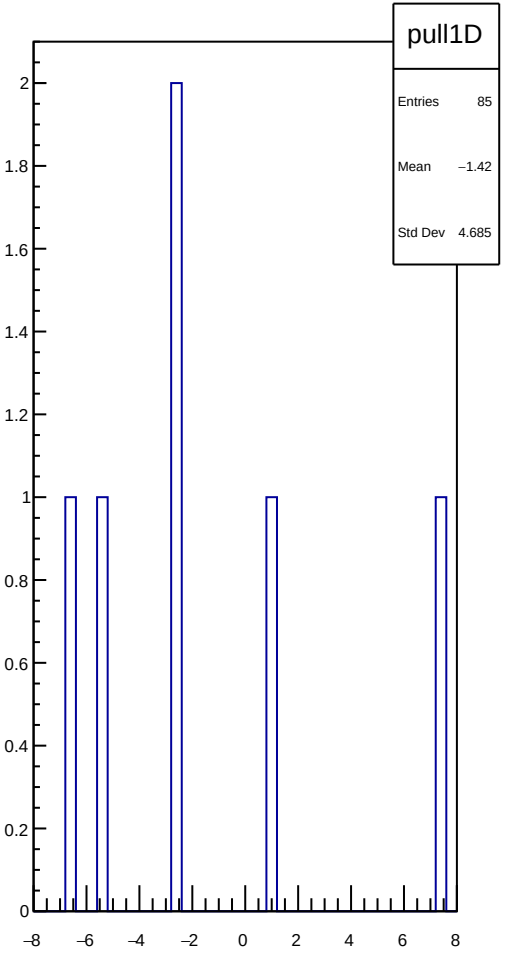

yield_sam6_rms vs run
χ² / ndf 1.033e+05 / 84
p0 0.01913 ± 1.567e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

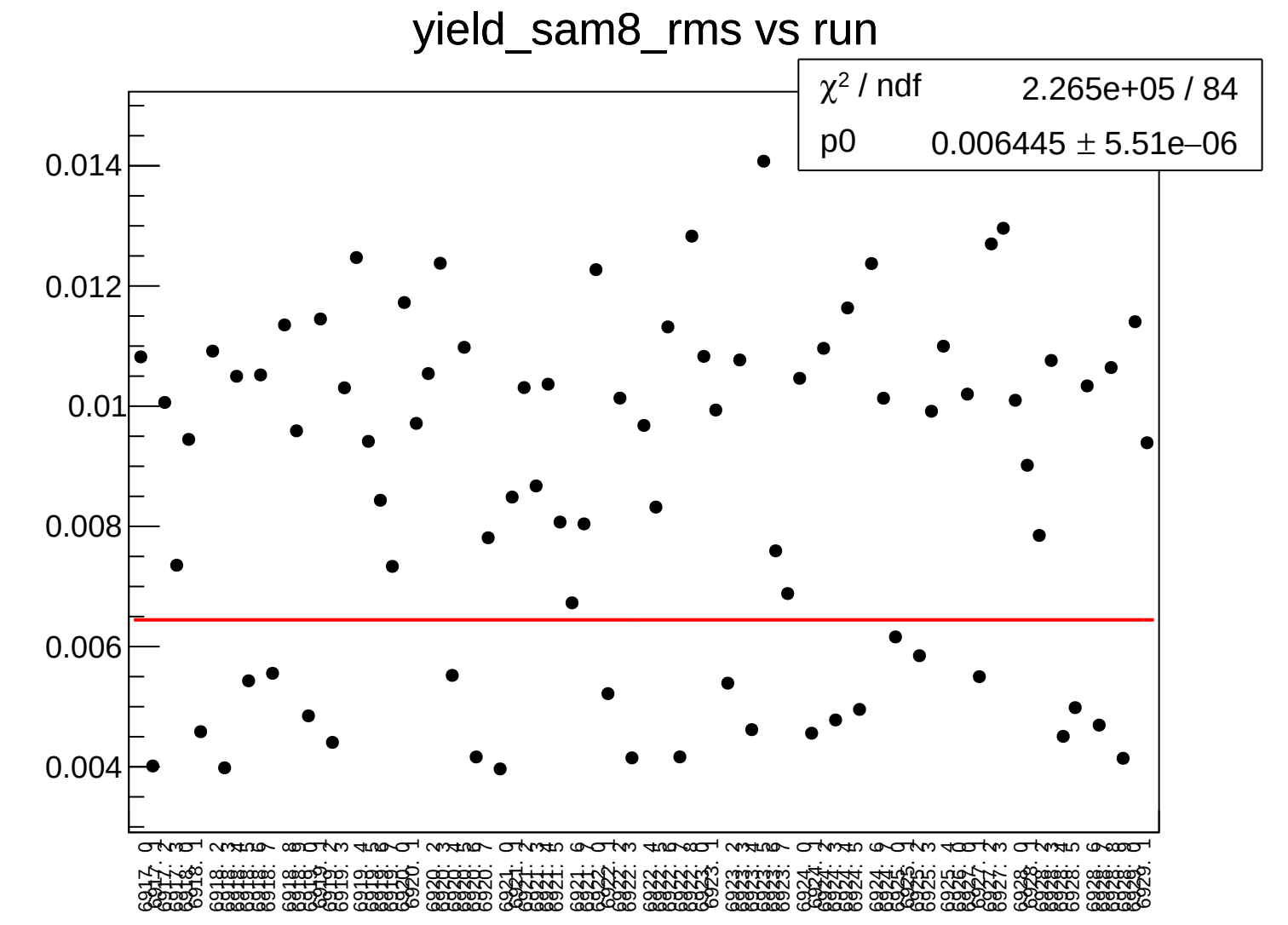

yield_sam7_mean vs run
χ² / ndf 8.577e+05 / 84
p0 2.635 ± 2.808e−06
2.646
2.644
2.642
2.64
2.638
2.636
2.634
2.632
2.63
2.628
pull
Entries 85
Mean 244.1
Std Dev 205.8
300
200
100
0
−100
−200
−300

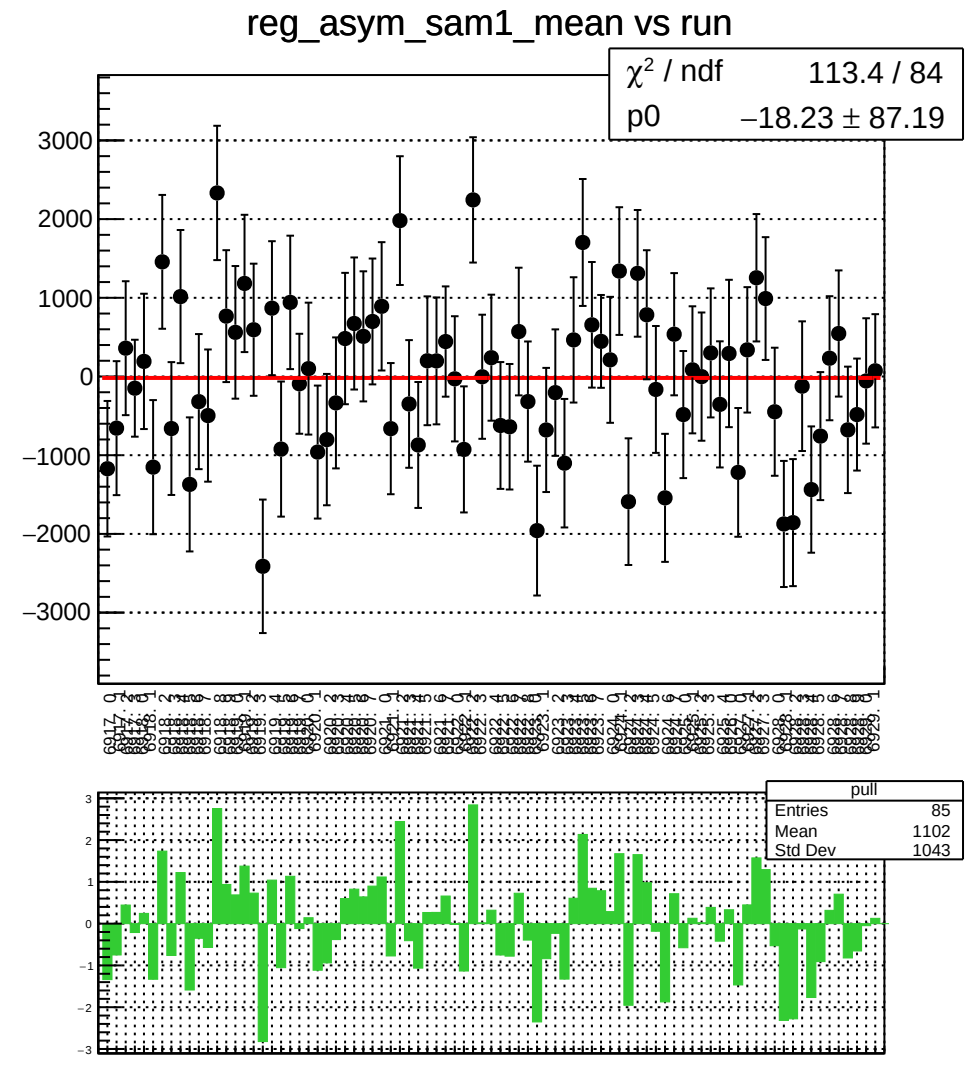

pull1D
Entries 85
Mean −1.616
Std Dev 3.89
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

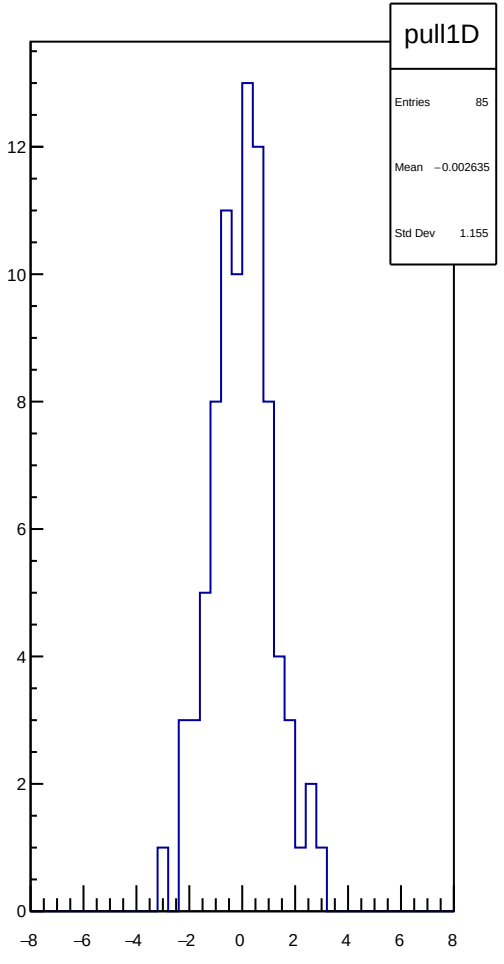

yield_sam7_rms vs run
χ² / ndf 2.149e+05 / 84
p0 0.002333 ± 1.986e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

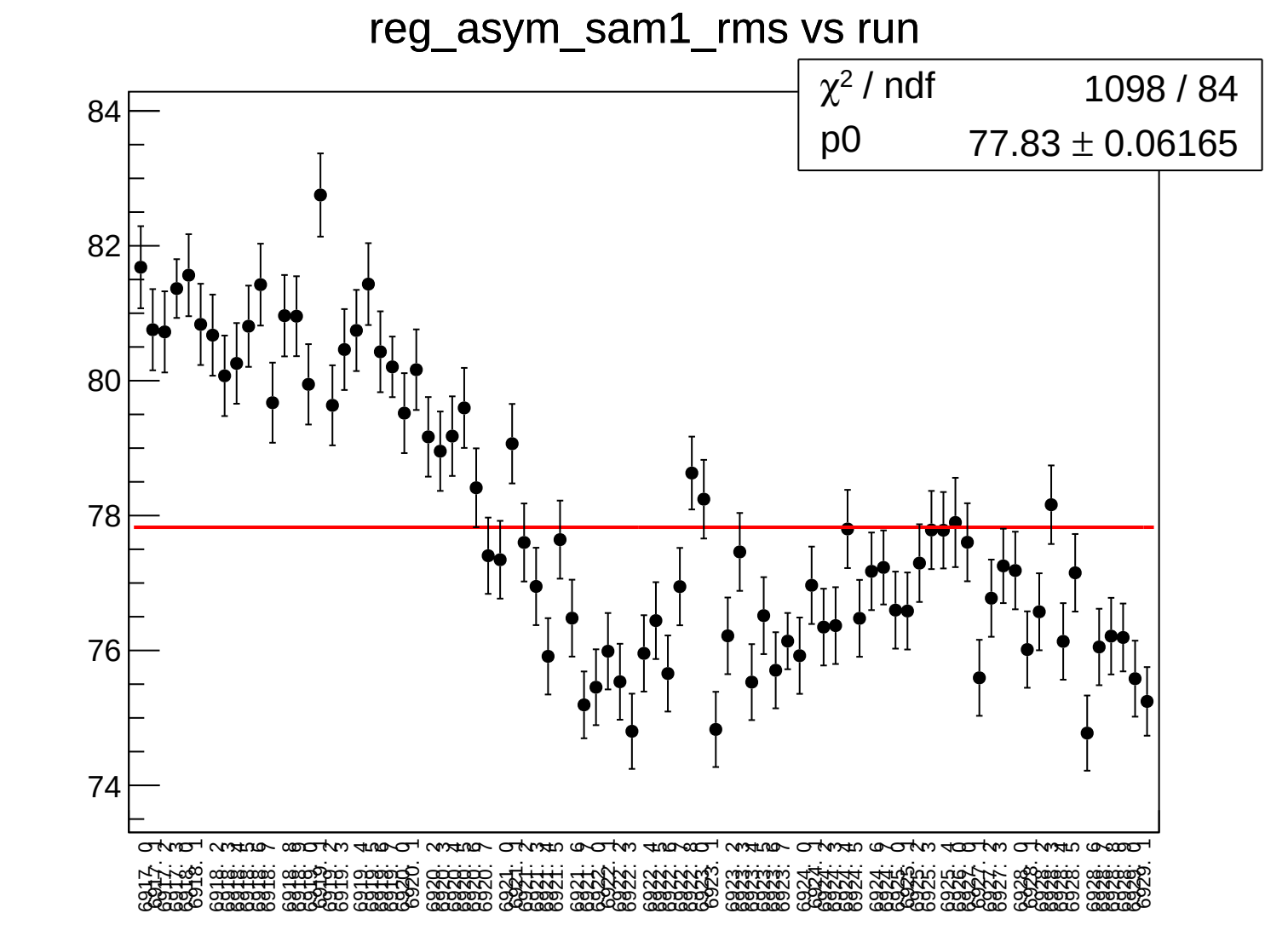

yield_sam8_mean vs run
χ² / ndf 7.018e+05 / 84
p0 9.143 ± 7.792e−06
9.17
9.16
9.15
9.14
9.13
pull
Entries 85
Mean 98.3
Std Dev 59.66
300
200
100
0
−100

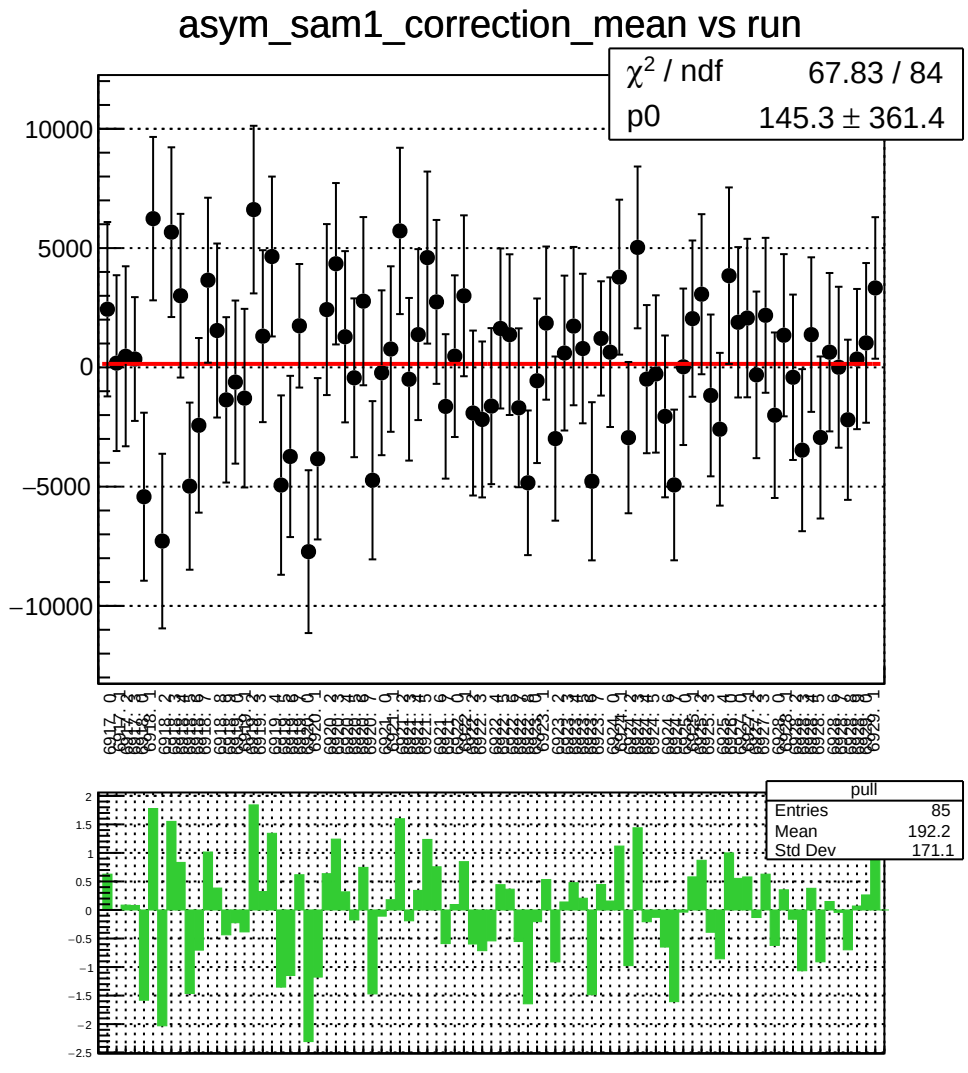

pull1D
Entries 85
Mean −1.42
Std Dev 4.685
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

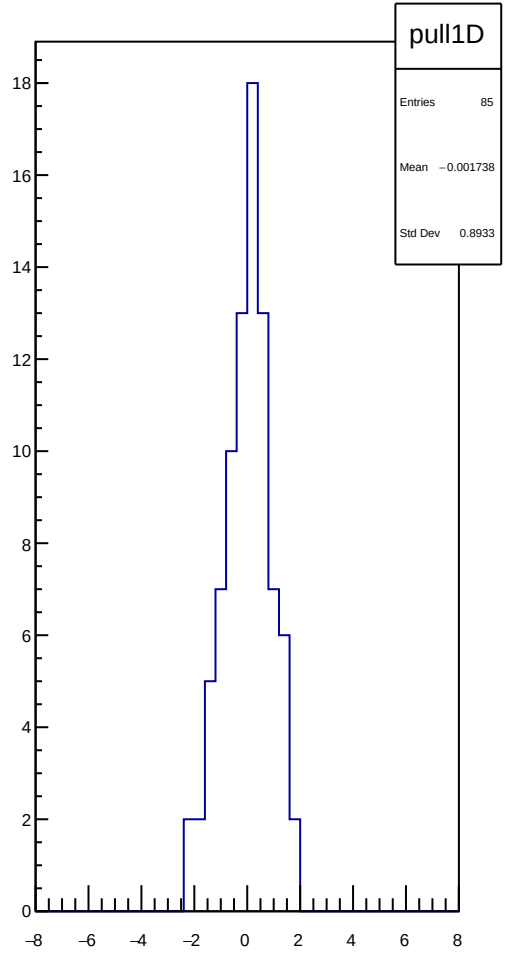

yield_sam8_rms vs run
χ² / ndf 2.265e+05 / 84
p0 0.006445 ± 5.51e−06
0.014
0.012
0.01
0.008
0.006
0.004

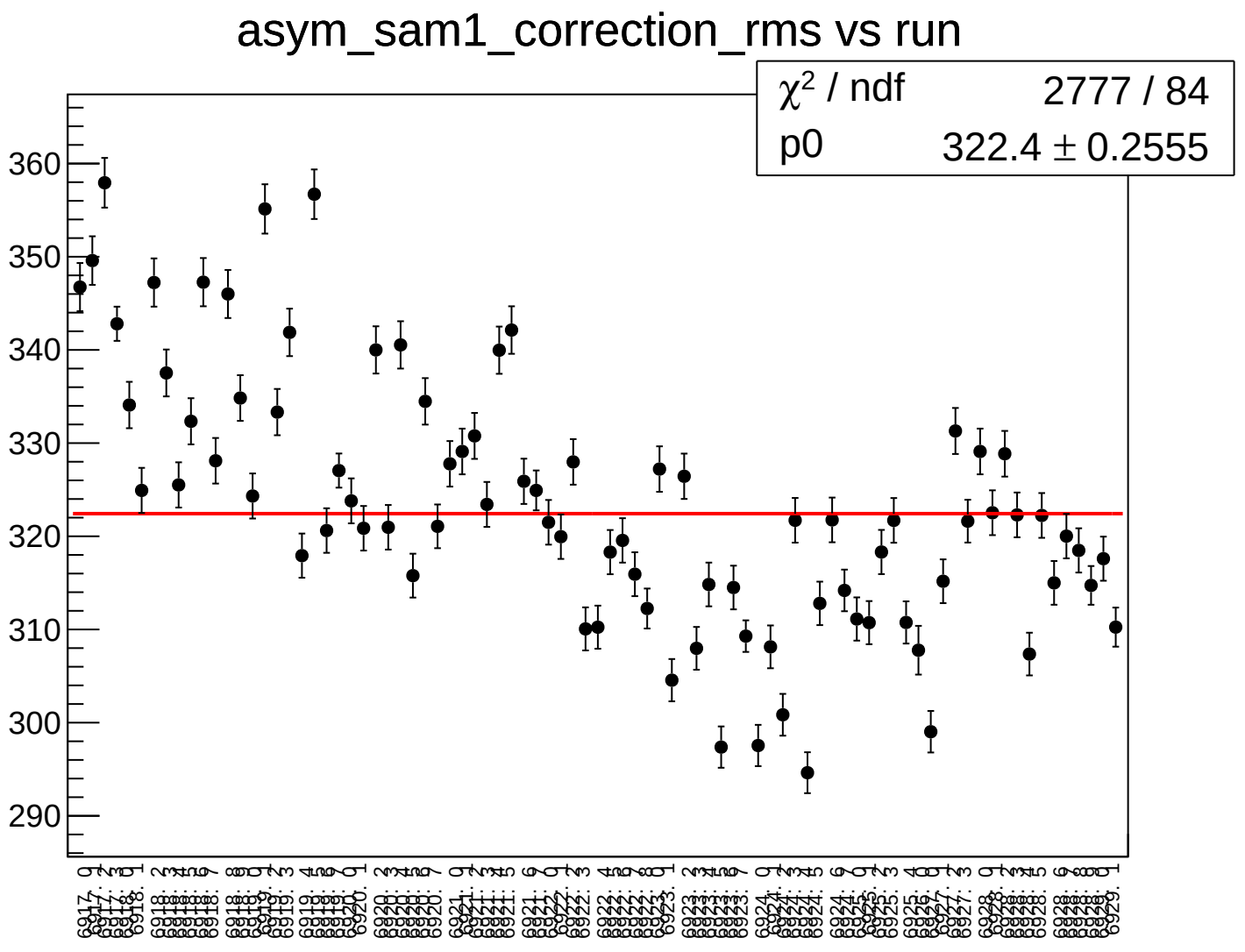

reg_asym_sam1_mean vs run
χ² / ndf 113.4 / 84
p0 −18.23 ± 87.19
pull
Entries 85
Mean 1102
Std Dev 1043

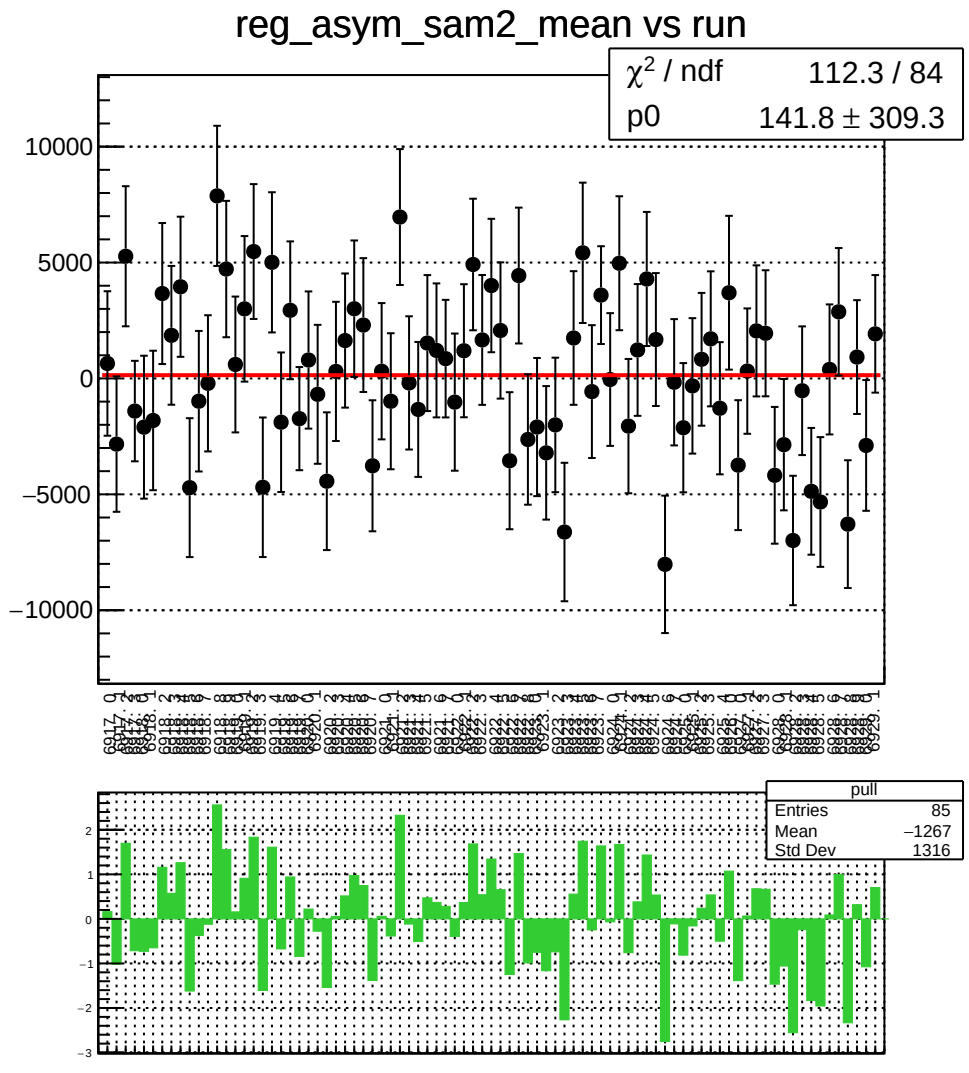

pull1D
Entries 85
Mean −0.002635
Std Dev 1.155

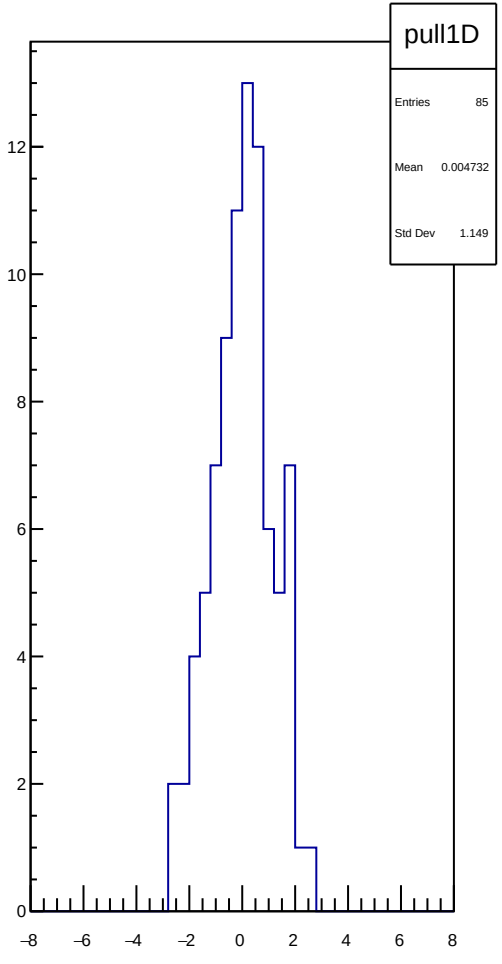

reg_asym_sam1_rms vs run
χ² / ndf 1098 / 84
p0 77.83 ± 0.06165
84
82
80
78
76
74

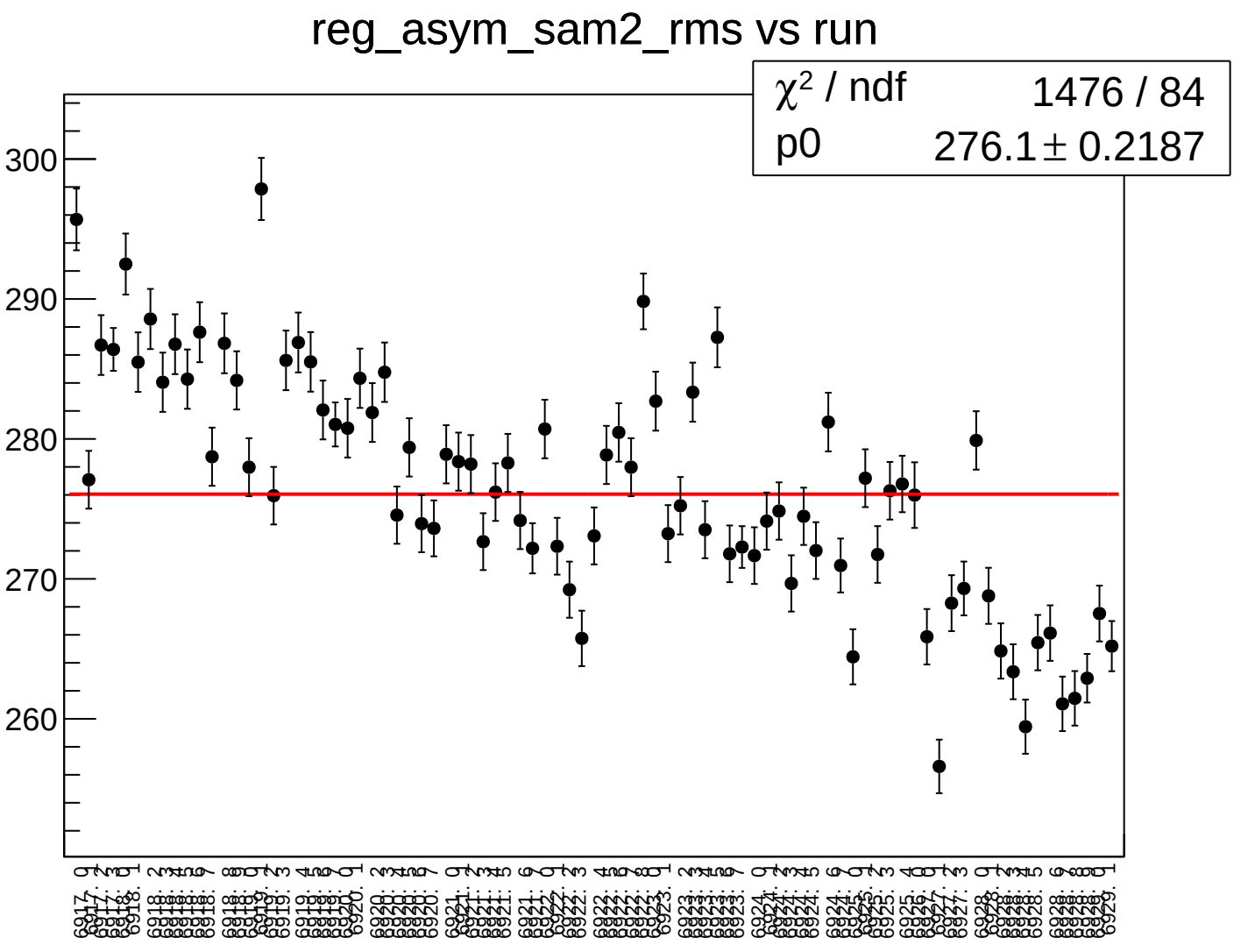

asym_sam1_correction_mean vs run
χ² / ndf 67.83 / 84
p0 145.3 ± 361.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 192.2
Std Dev 171.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

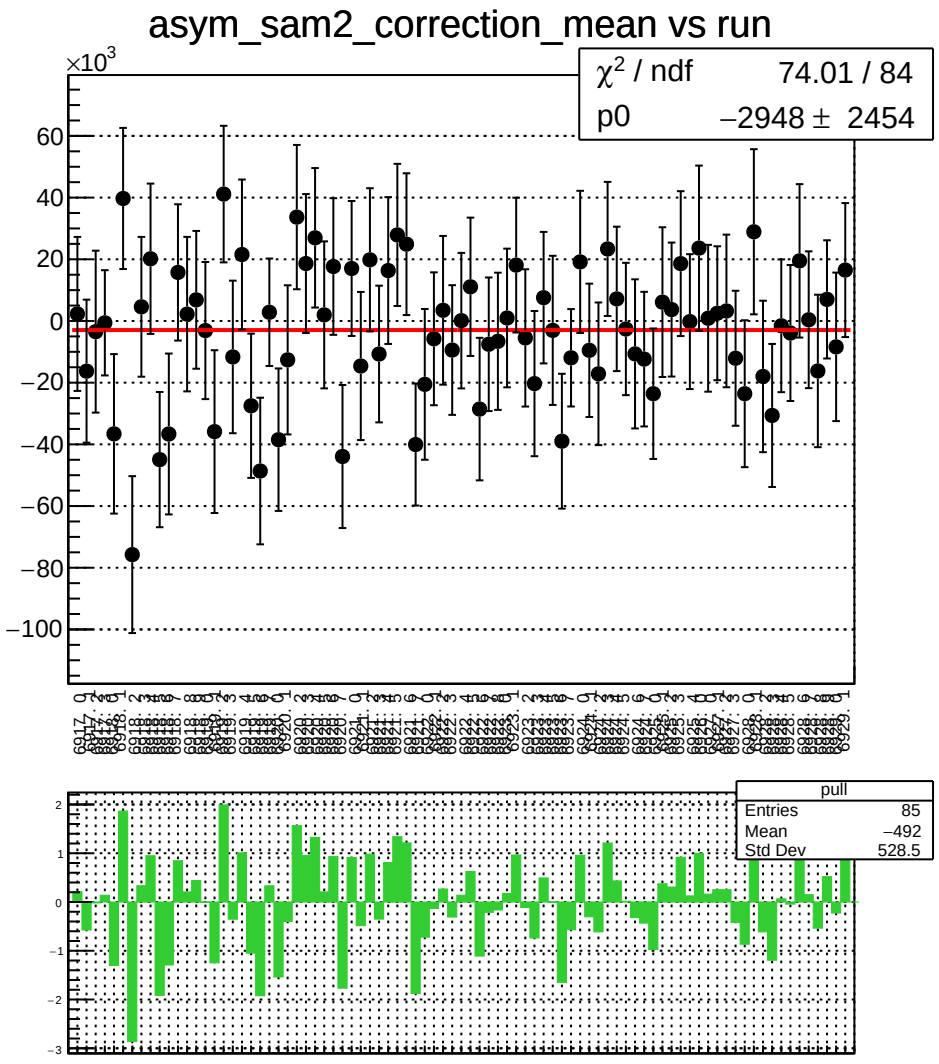

pull1D
Entries 85
Mean −0.001738
Std Dev 0.8933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

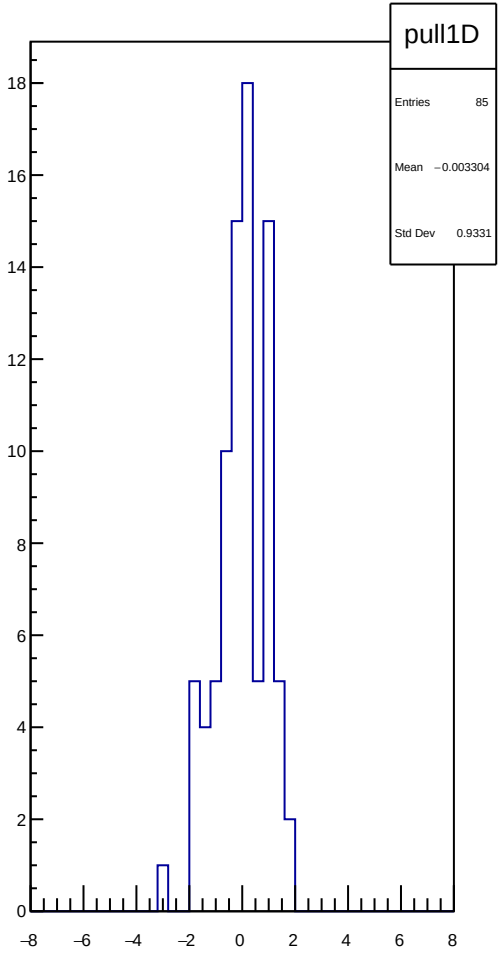

asym_sam1_correction_rms vs run
χ² / ndf 2777 / 84
p0 322.4 ± 0.2555
360
350
340
330
320
310
300
290

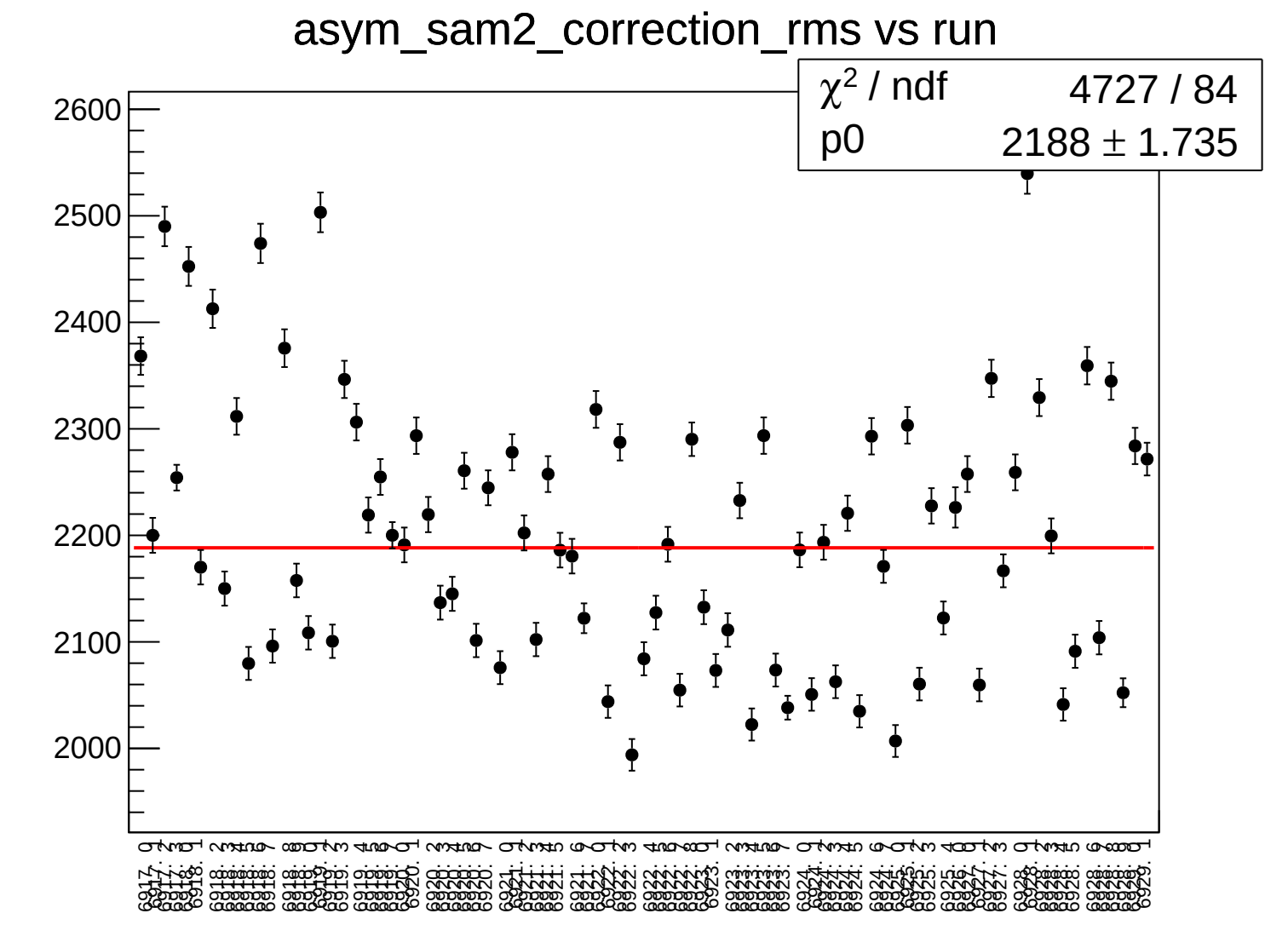

reg_asym_sam2_mean vs run
χ² / ndf 112.3 / 84
p0 141.8 ± 309.3
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −1267
Std Dev 1316
2
1
0
−1
−2
−3

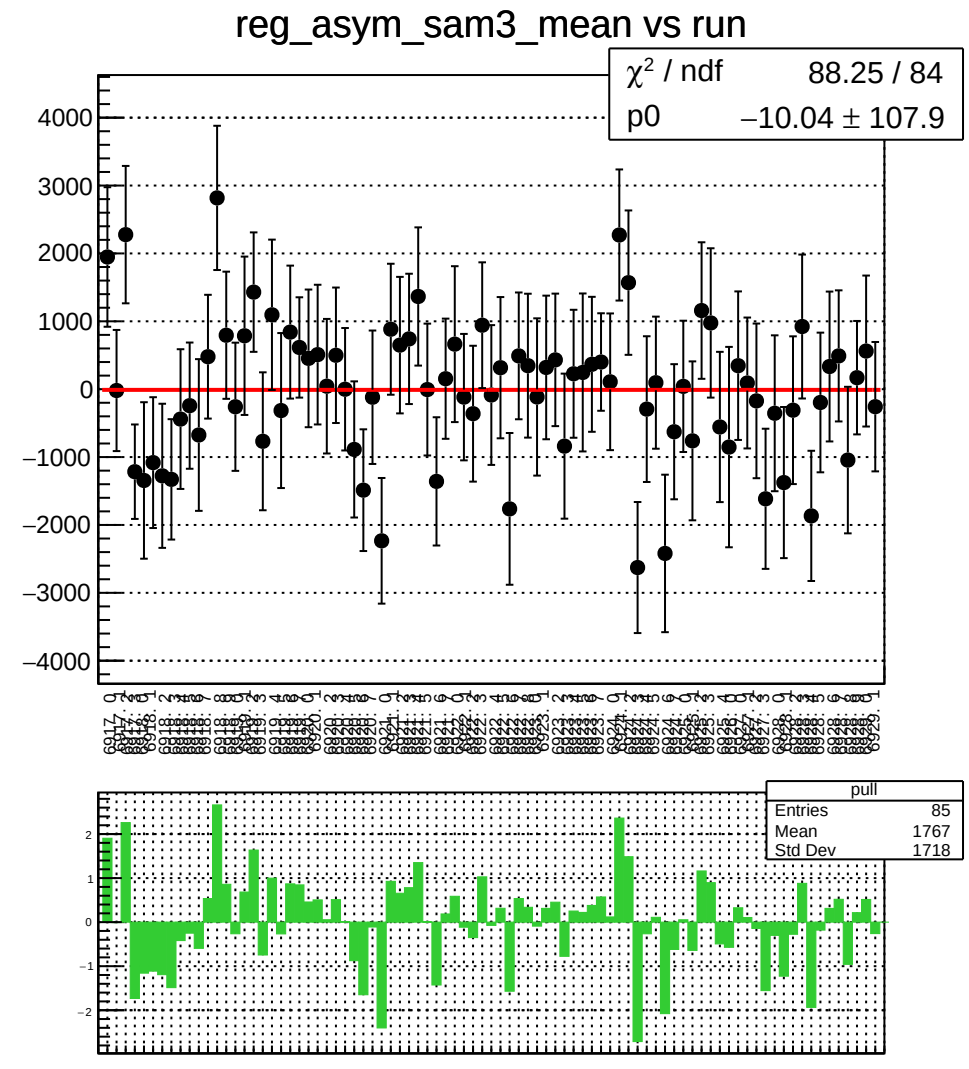

pull1D
Entries 85
Mean 0.004732
Std Dev 1.149
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

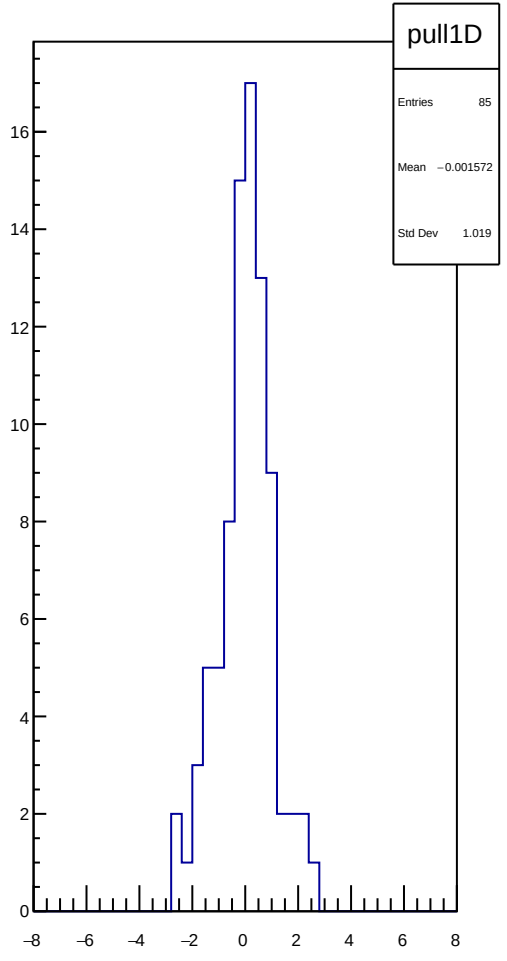

reg_asym_sam2_rms vs run
χ² / ndf 1476 / 84
p0 276.1 ± 0.2187
300
290
280
270
260

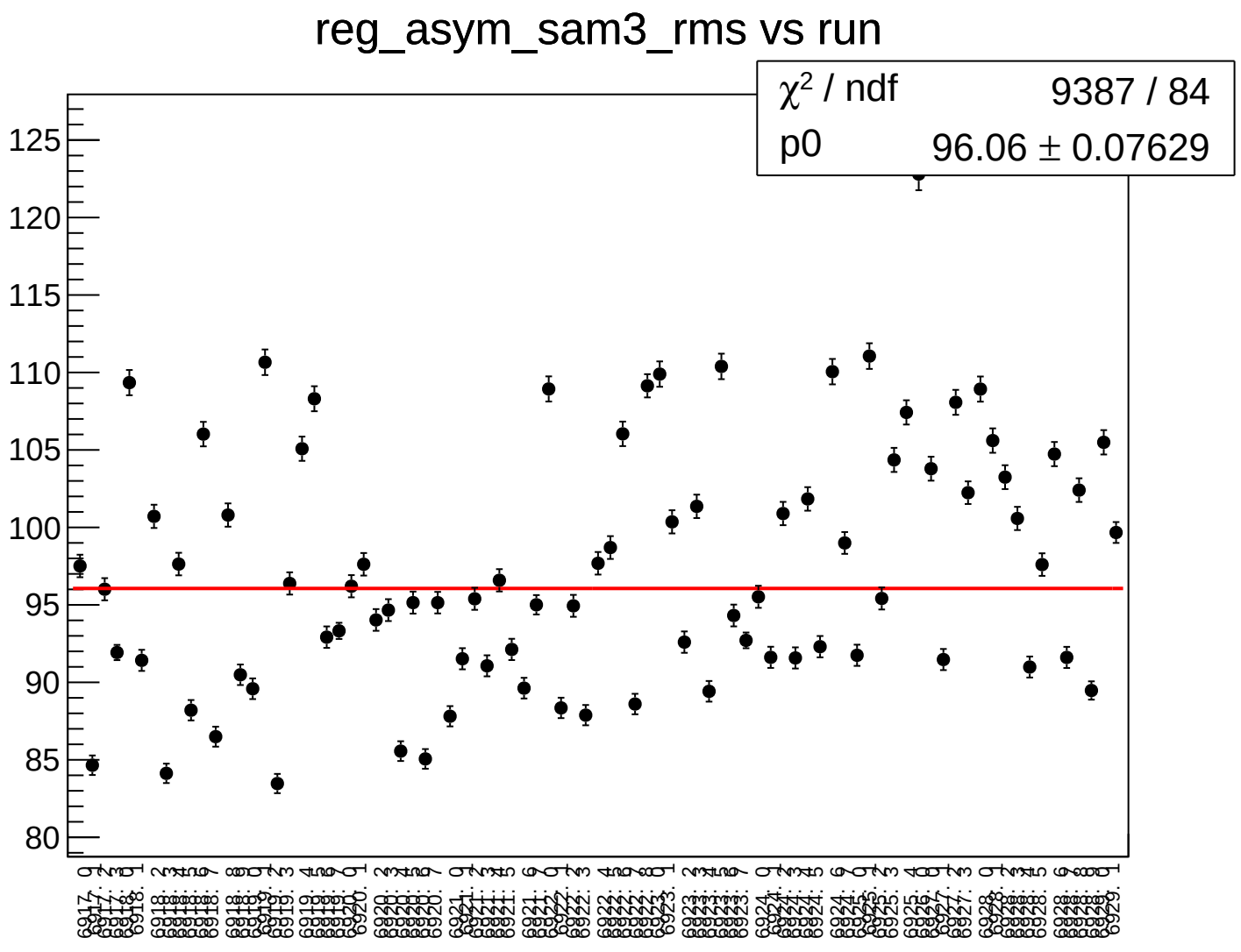

asym_sam2_correction_mean vs run
χ² / ndf 74.01 / 84
p0 −2948 ± 2454
×10³
pull
Entries 85
Mean −492
Std Dev 528.5

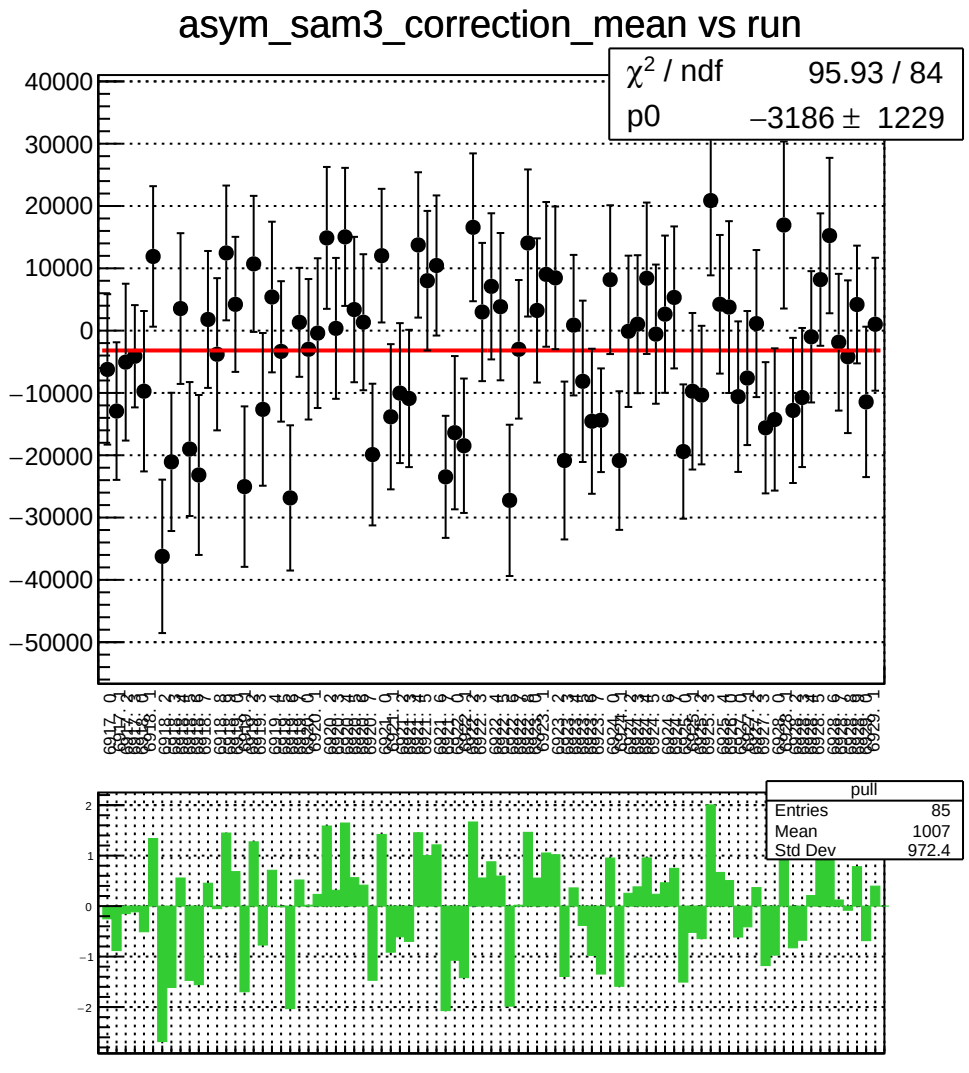

pull1D
Entries 85
Mean −0.003304
Std Dev 0.9331

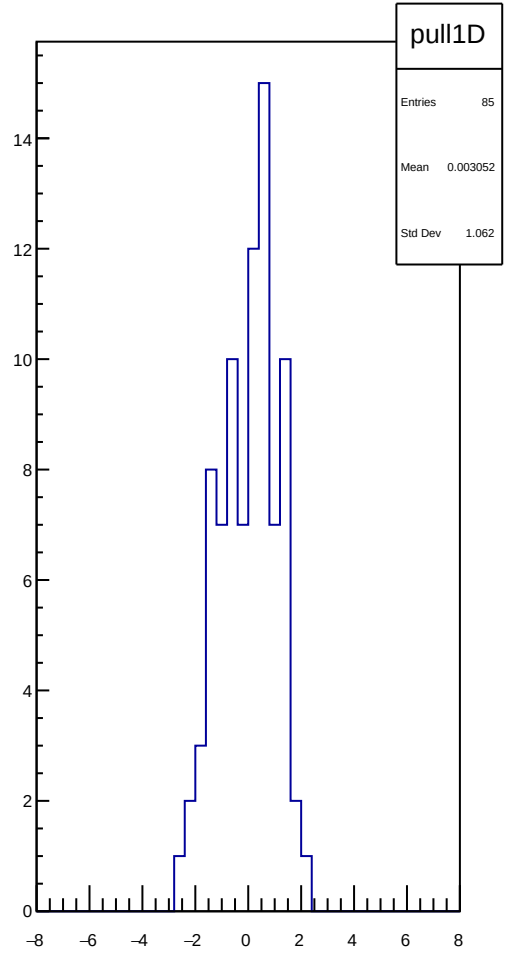

asym_sam2_correction_rms vs run
χ² / ndf 4727 / 84
p0 2188 ± 1.735
2600
2500
2400
2300
2200
2100
2000

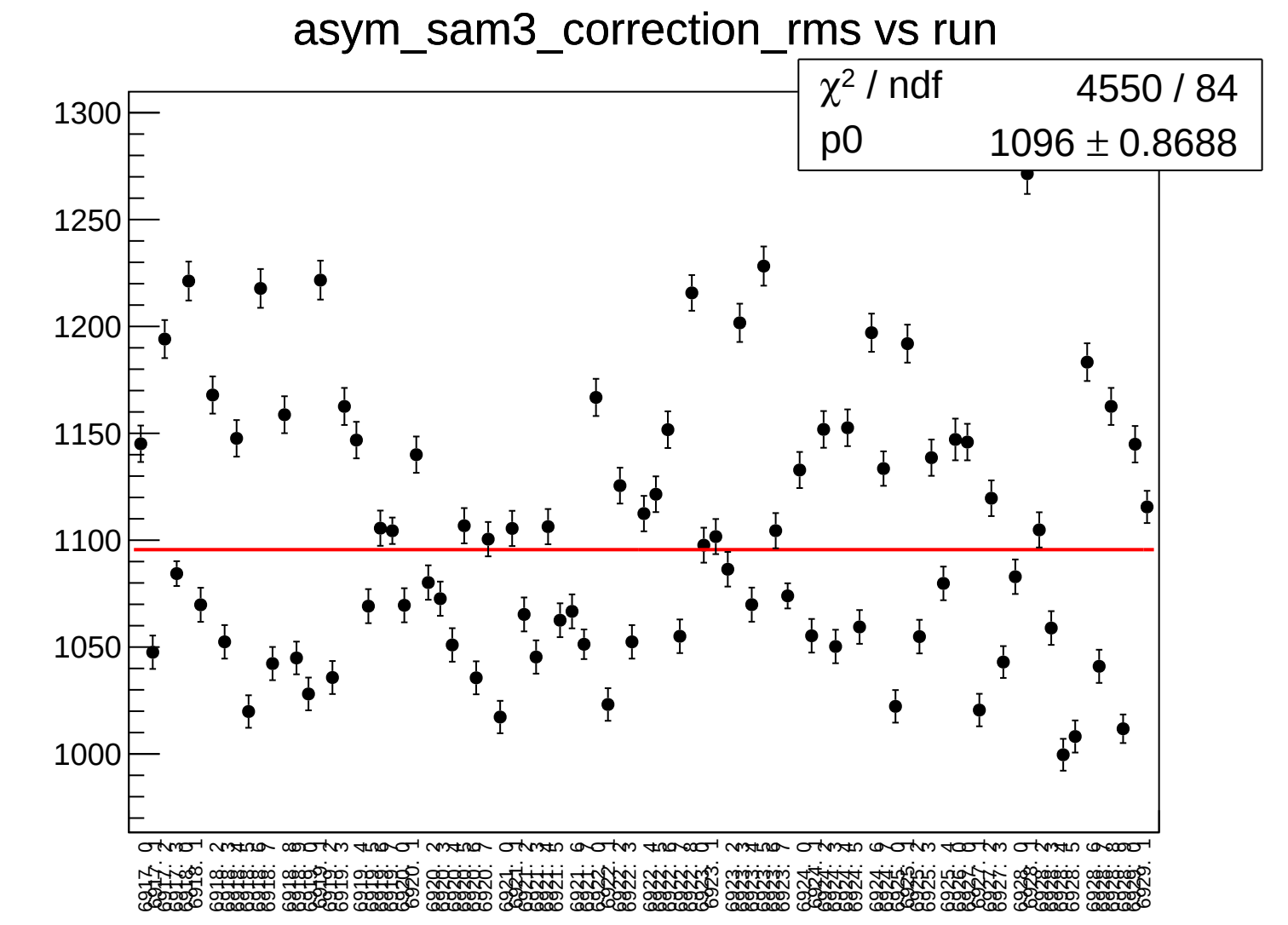

reg_asym_sam3_mean vs run
χ² / ndf 88.25 / 84
p0 −10.04 ± 107.9
pull
Entries 85
Mean 1767
Std Dev 1718

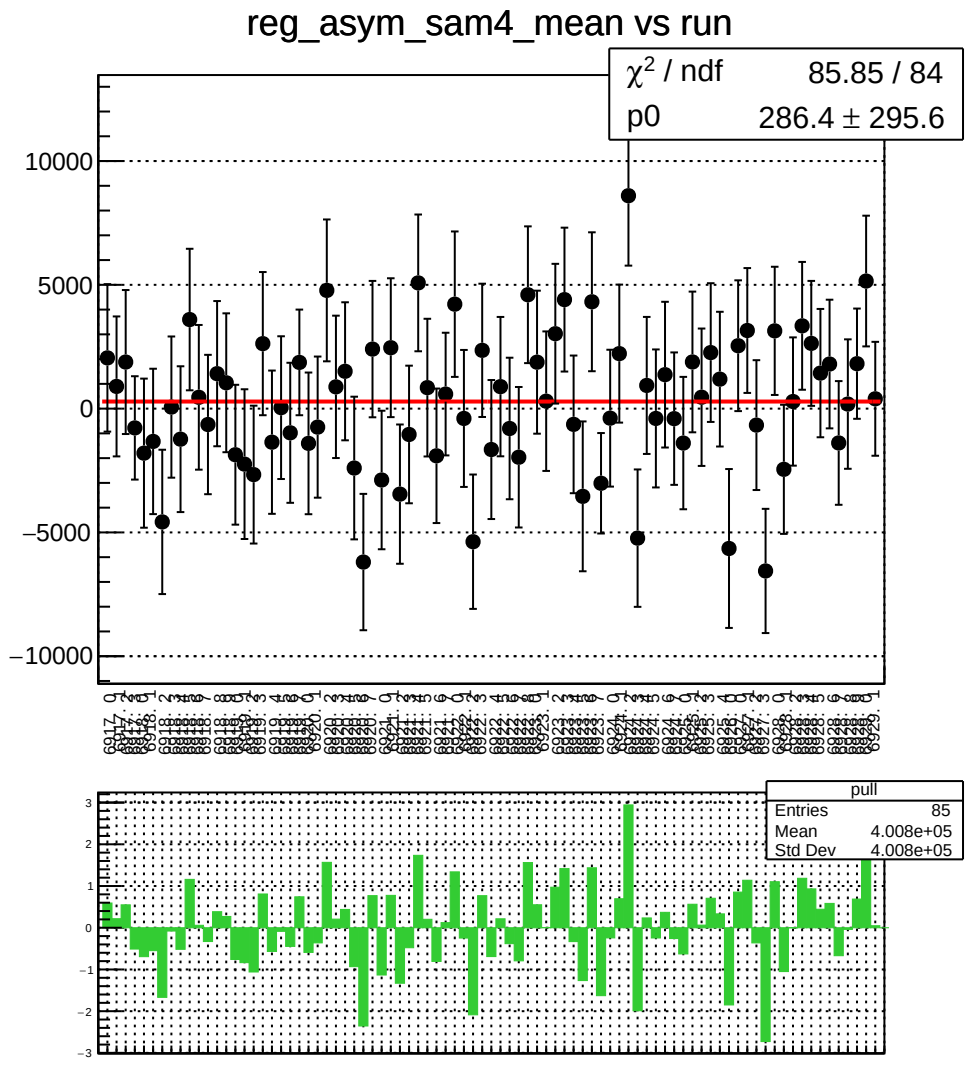

pull1D
Entries 85
Mean −0.001572
Std Dev 1.019

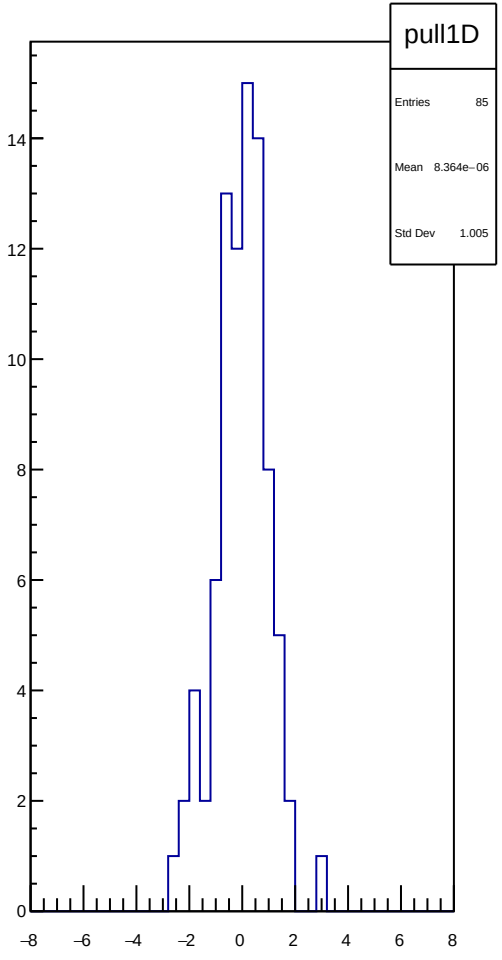

reg_asym_sam3_rms vs run
χ^2 / ndf 9387 / 84
p0 96.06 ± 0.07629
125
120
115
110
105
100
95
90
85
80

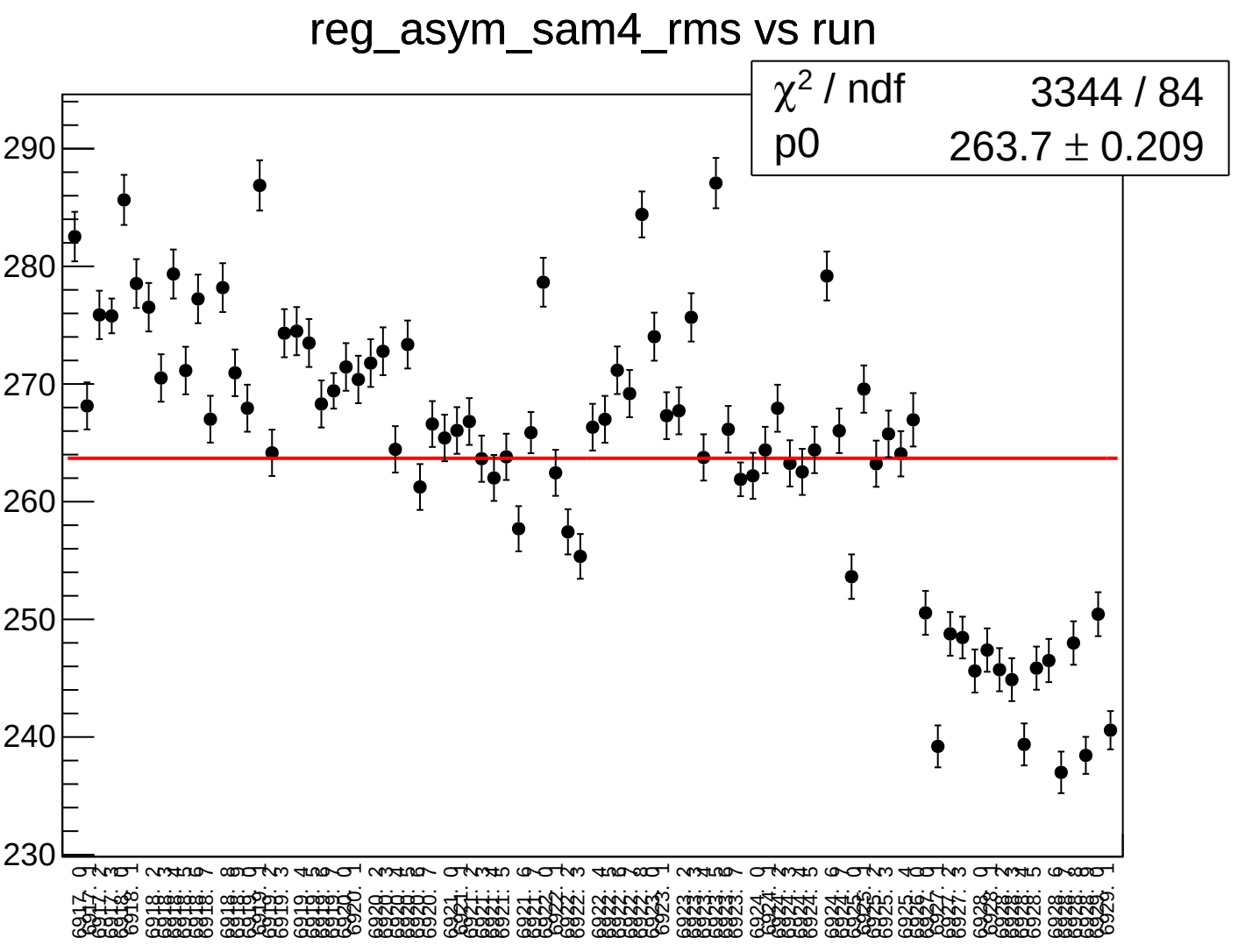

asym_sam3_correction_mean vs run
χ² / ndf 95.93 / 84
p0 −3186 ± 1229
pull
Entries 85
Mean 1007
Std Dev 972.4

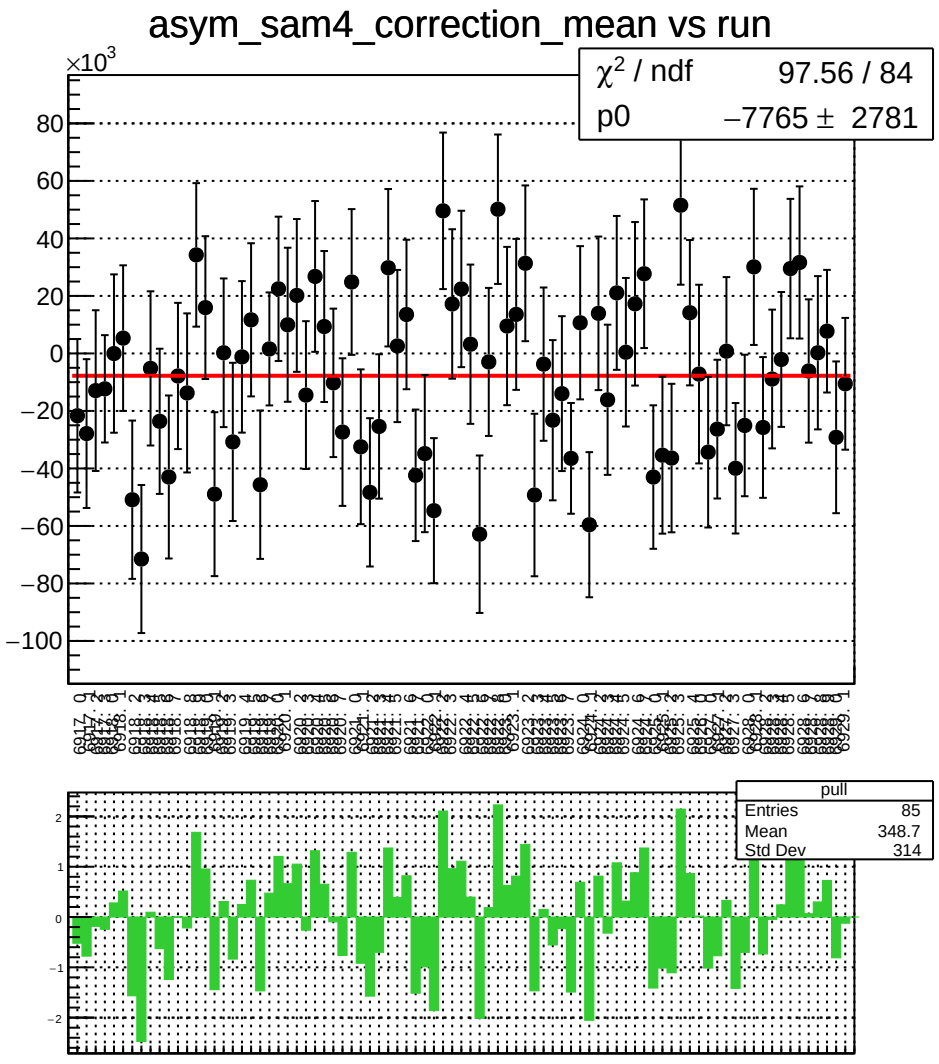

pull1D
Entries 85
Mean 0.003052
Std Dev 1.062

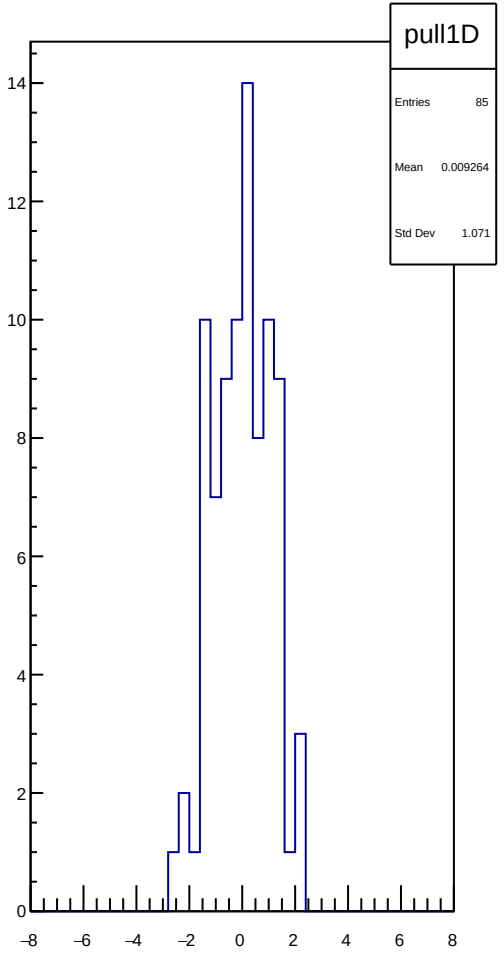

asym_sam3_correction_rms vs run
χ² / ndf 4550 / 84
p0 1096 ± 0.8688
1300
1250
1200
1150
1100
1050
1000

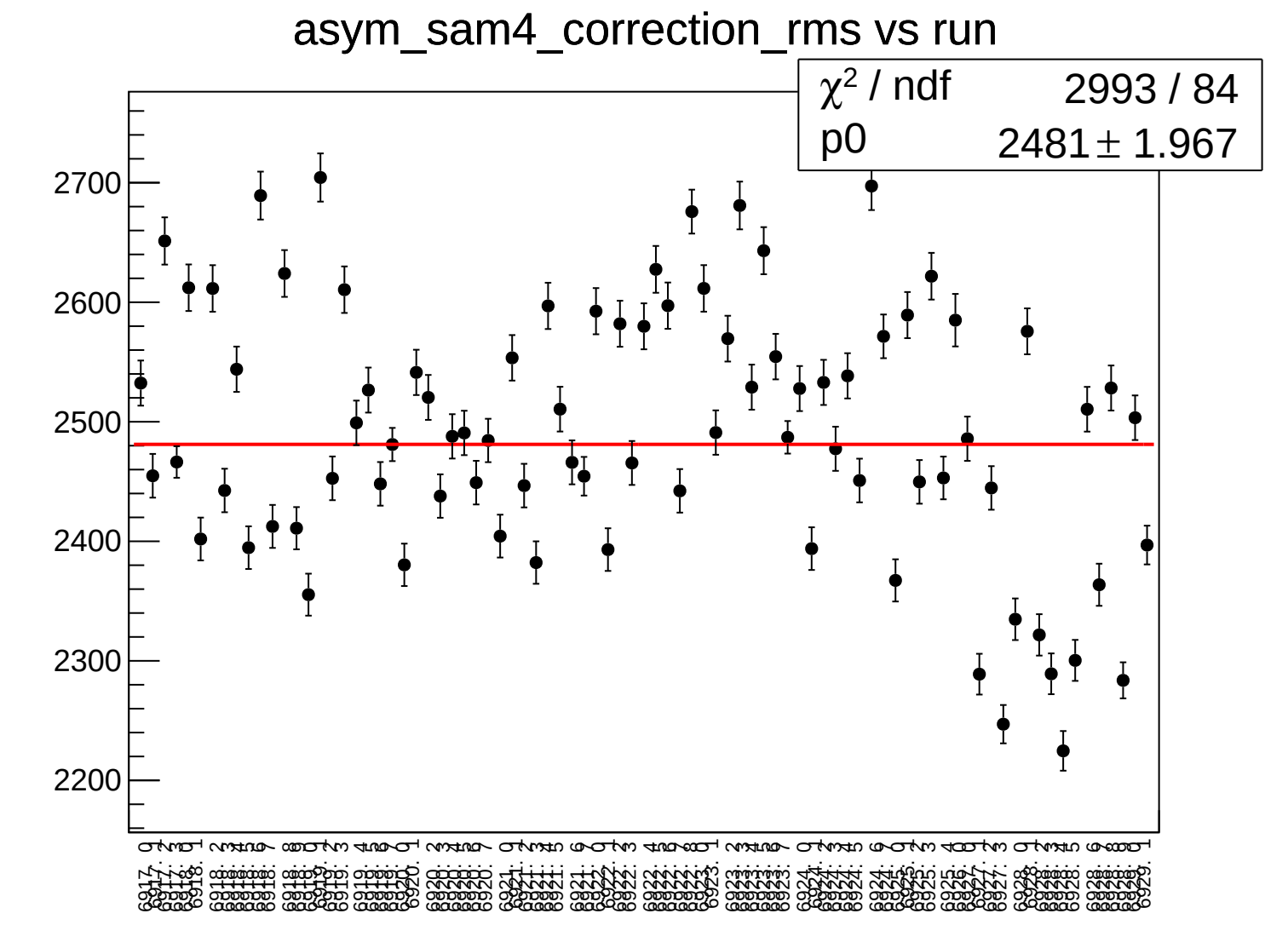

reg_asym_sam4_mean vs run
χ² / ndf 85.85 / 84
p0 286.4 ± 295.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 4.008e+05
Std Dev 4.008e+05
3
2
1
0
−1
−2
−3

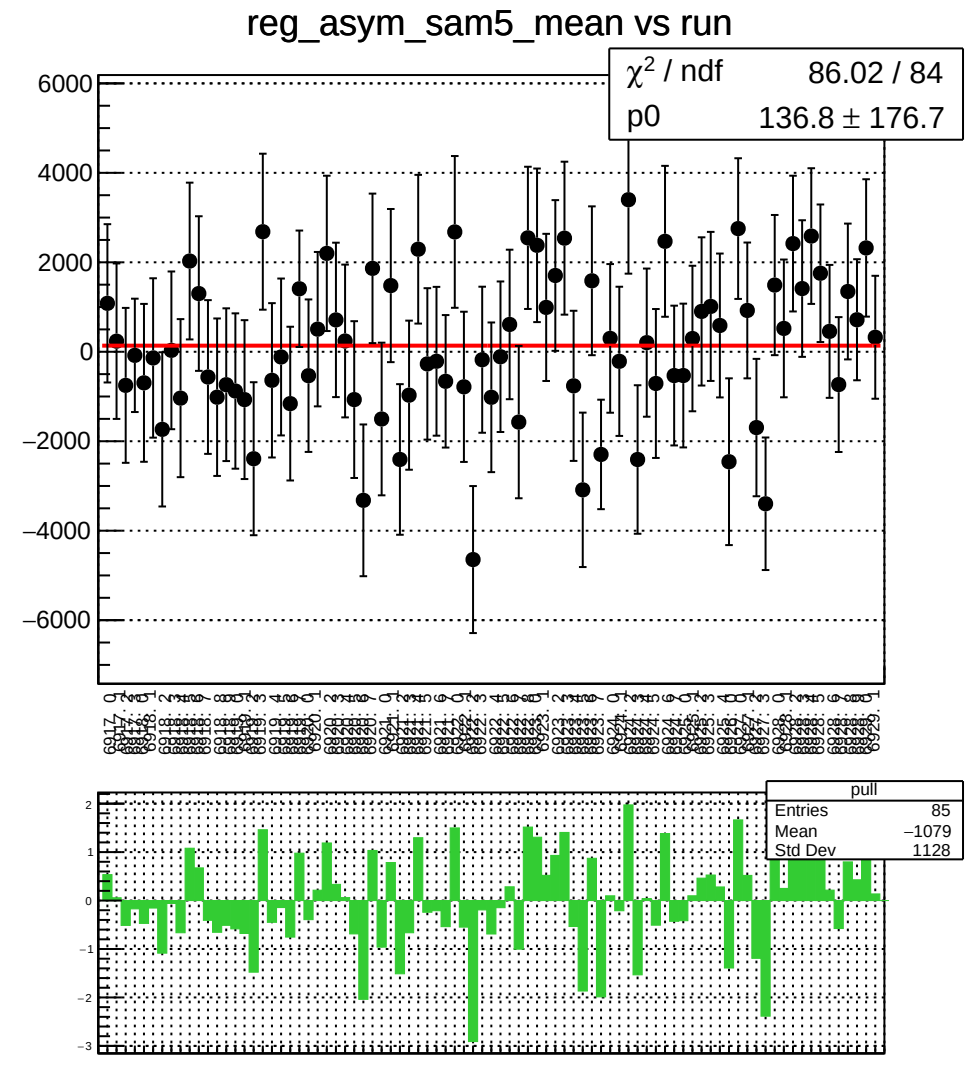

pull1D
Entries 85
Mean 8.364e−06
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

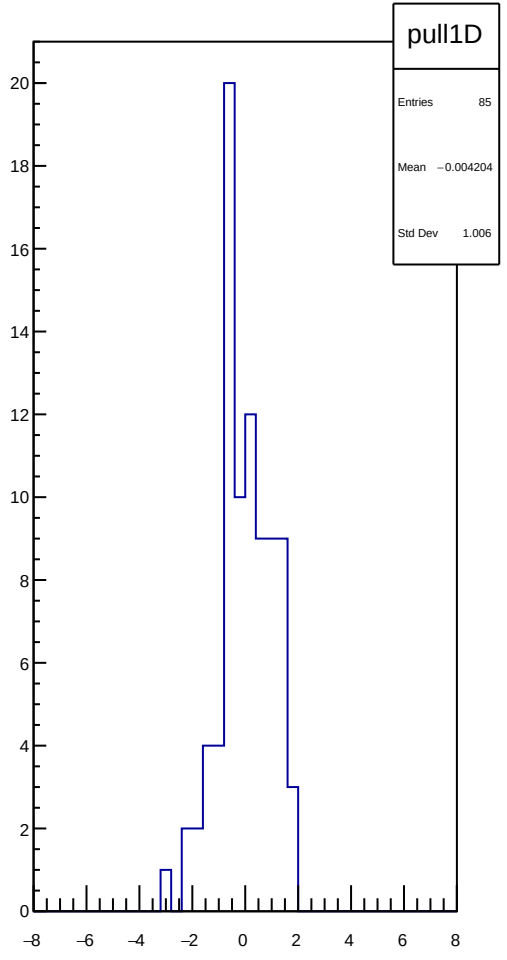

reg_asym_sam4_rms vs run
χ^2 / ndf 3344 / 84
p0 263.7 ± 0.209
290
280
270
260
250
240
230

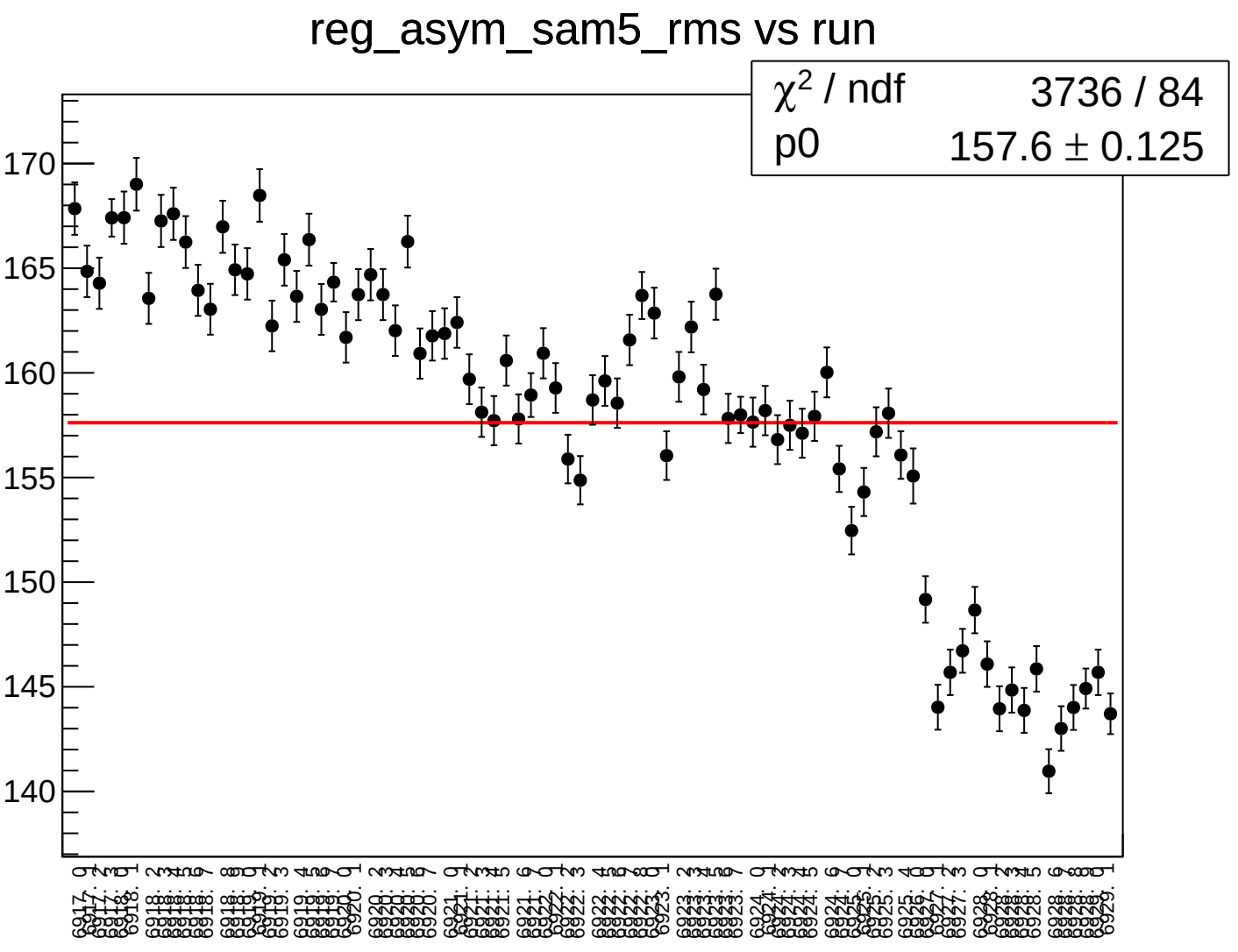

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 97.56 / 84
p0 −7765 ± 2781
pull
Entries 85
Mean 348.7
Std Dev 314

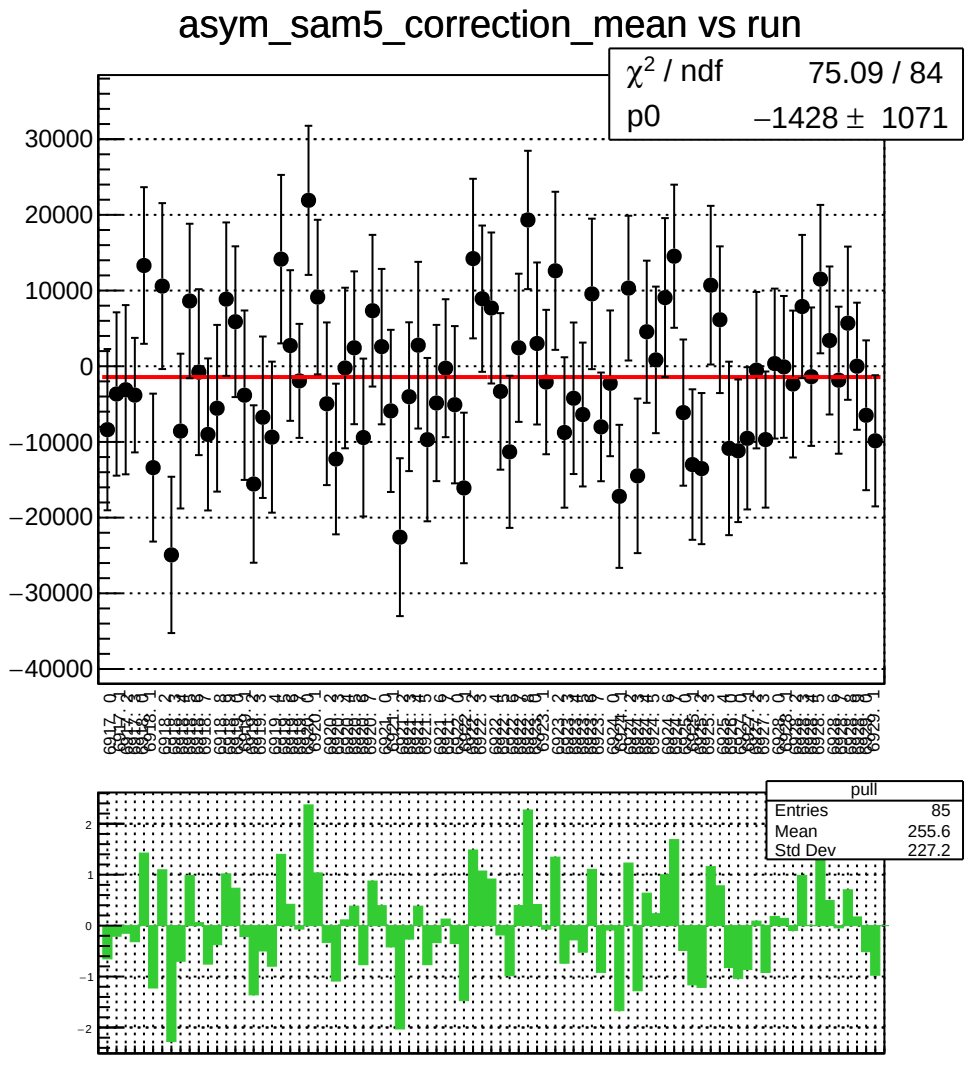

pull1D
Entries 85
Mean 0.009264
Std Dev 1.071

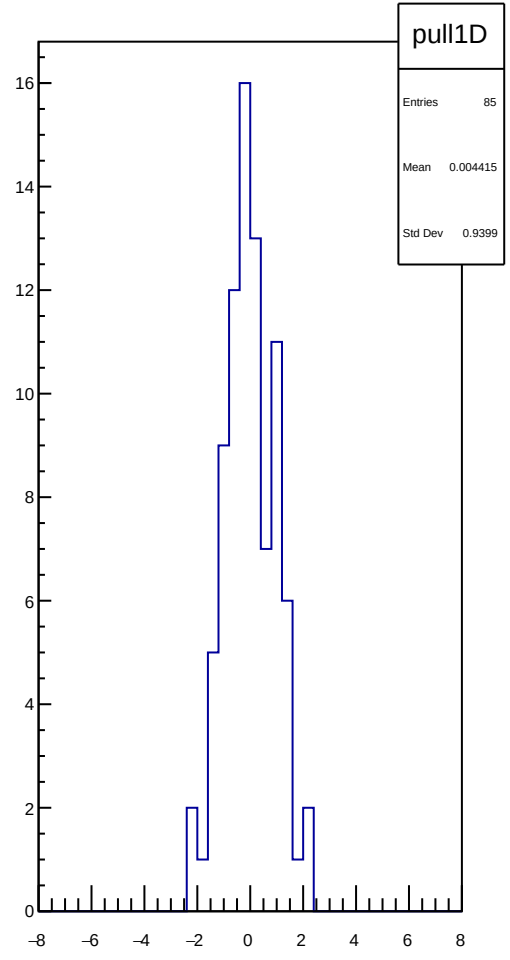

asym_sam4_correction_rms vs run
χ^2 / ndf 2993 / 84
p0 2481 ± 1.967
2700
2600
2500
2400
2300
2200

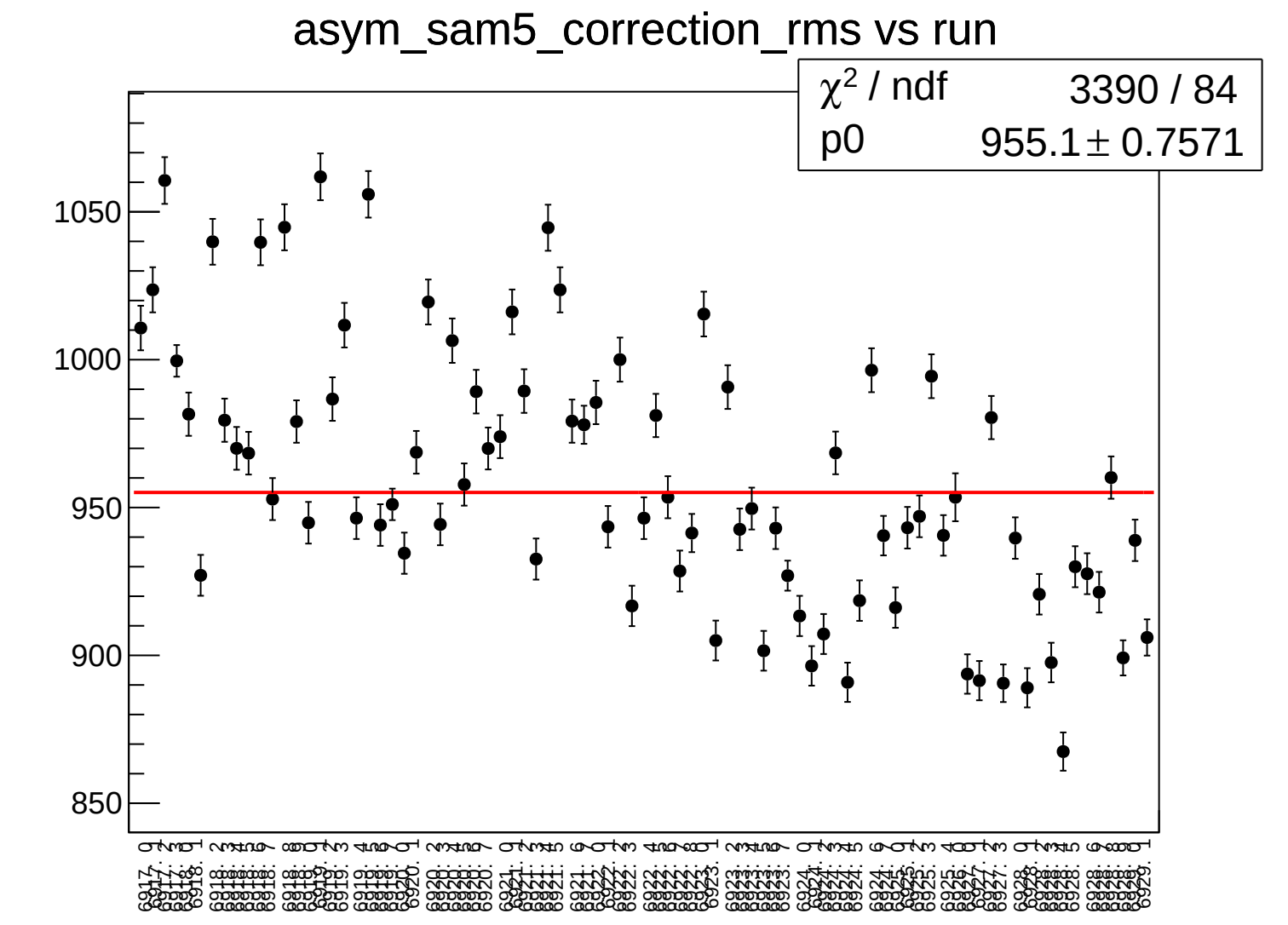

reg_asym_sam5_mean vs run
χ² / ndf 86.02 / 84
p0 136.8 ± 176.7
pull
Entries 85
Mean −1079
Std Dev 1128

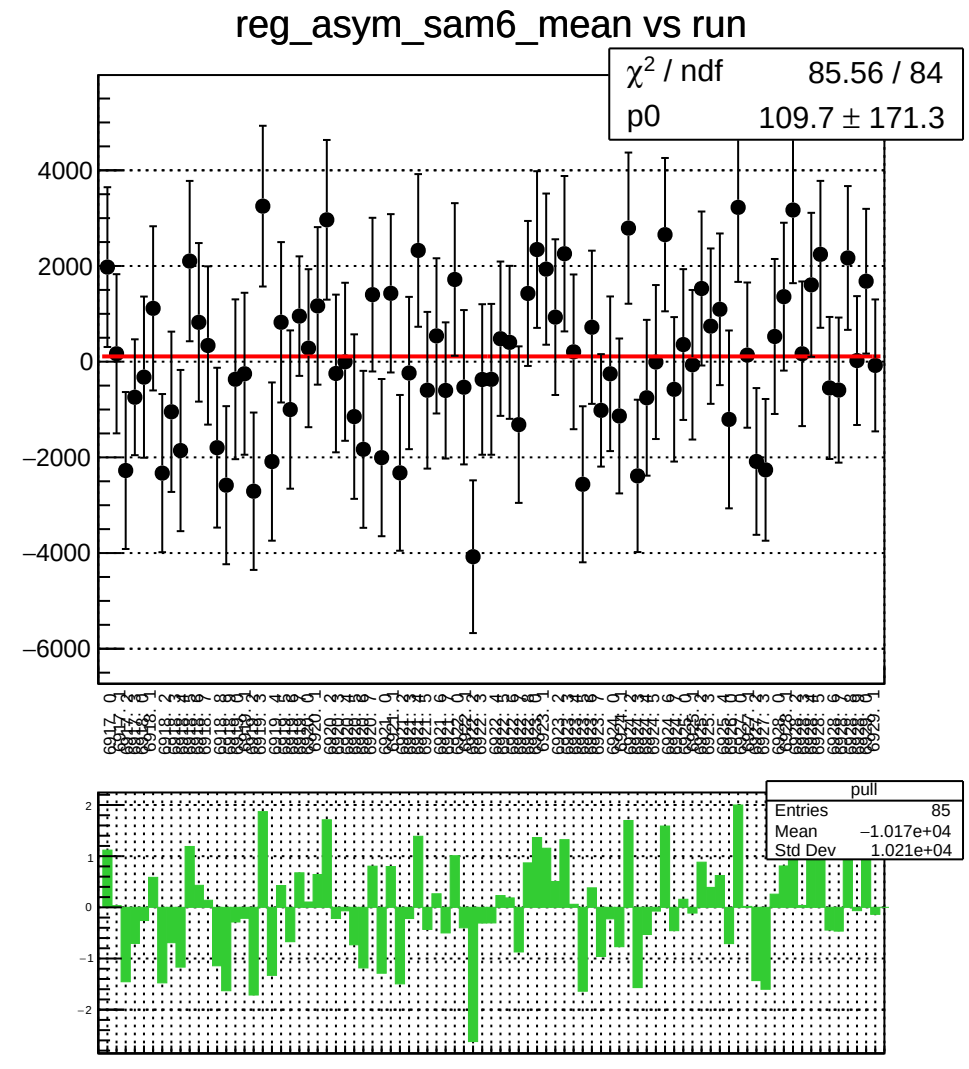

pull1D
Entries 85
Mean −0.004204
Std Dev 1.006

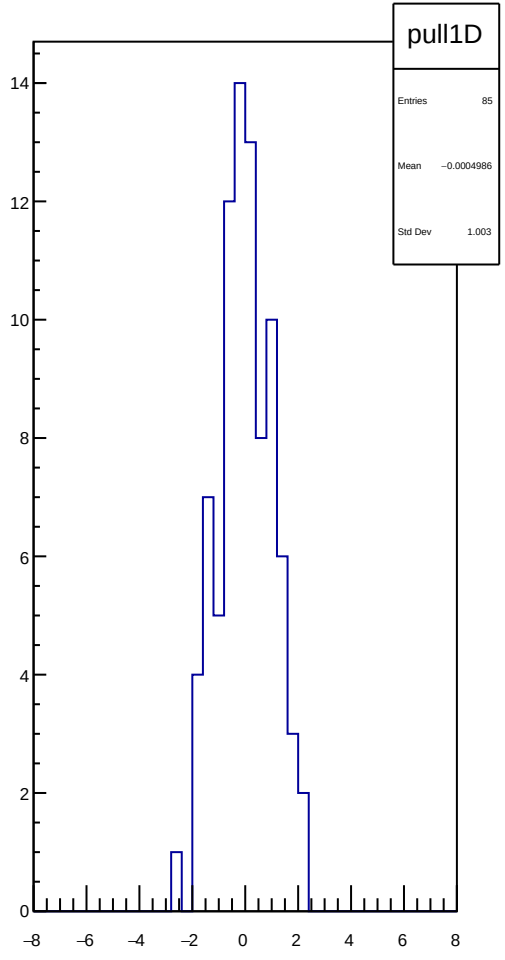

reg_asym_sam5_rms vs run
χ² / ndf 3736 / 84
p0 157.6 ± 0.125
170
165
160
155
150
145
140

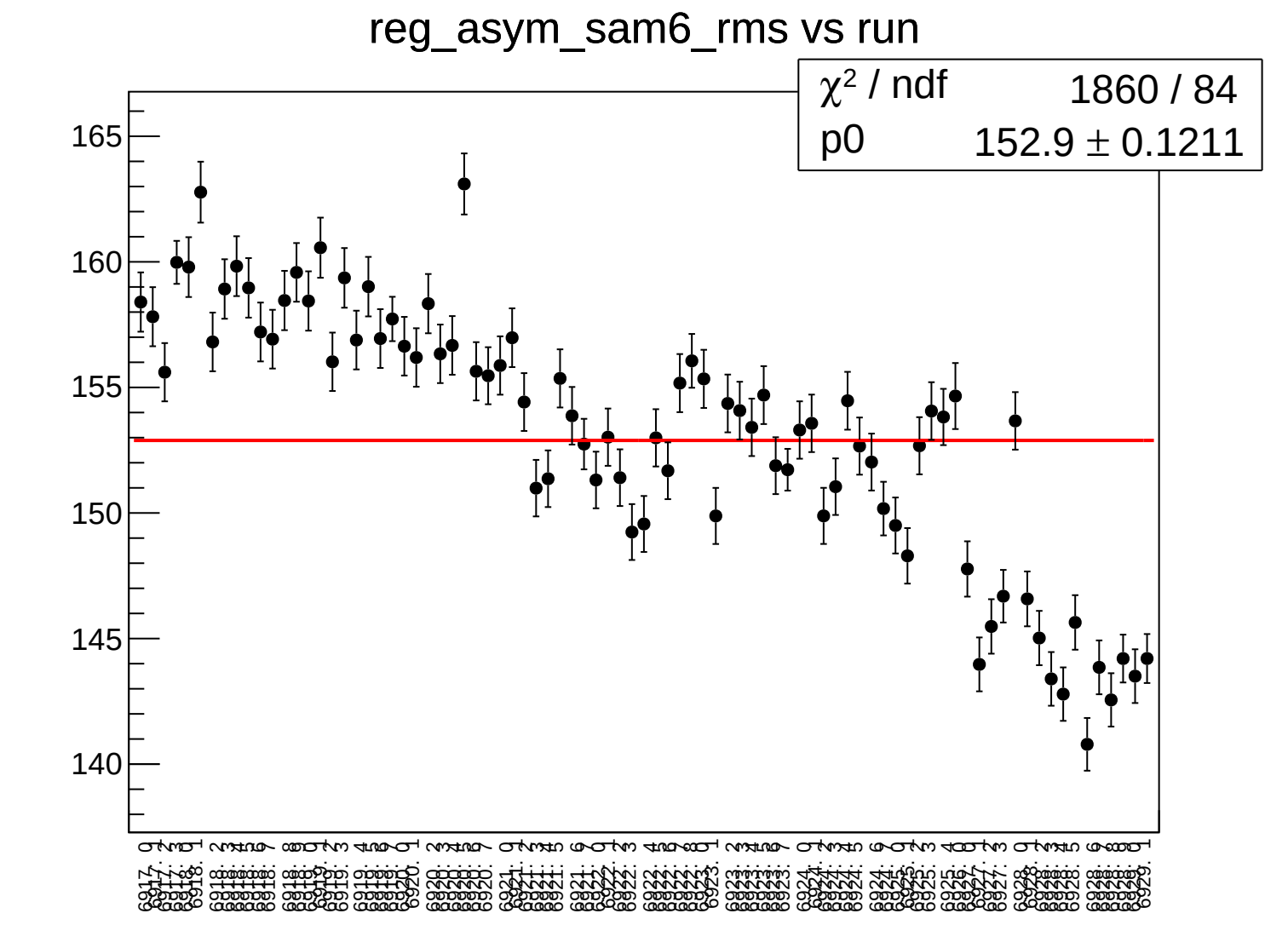

asym_sam5_correction_mean vs run
χ² / ndf 75.09 / 84
p0 −1428 ± 1071
pull
Entries 85
Mean 255.6
Std Dev 227.2

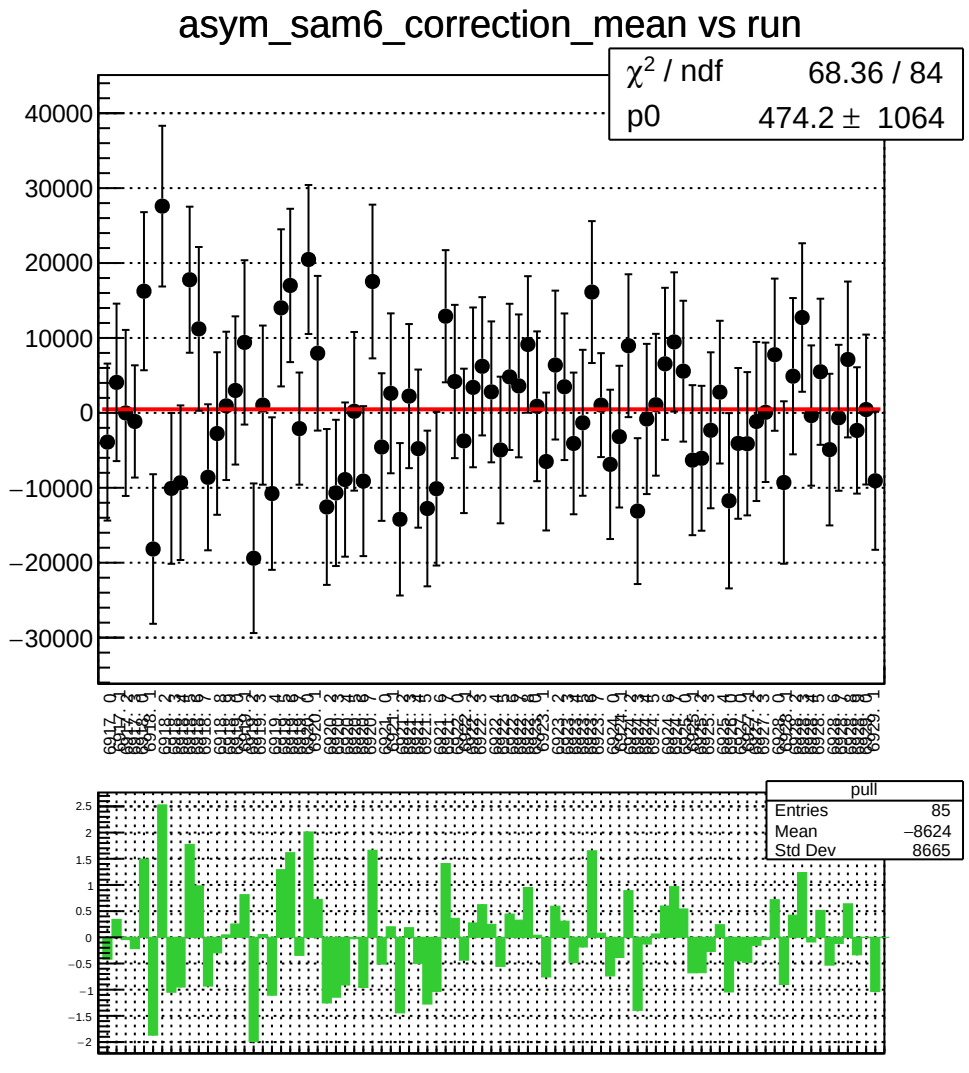

pull1D
Entries 85
Mean 0.004415
Std Dev 0.9399

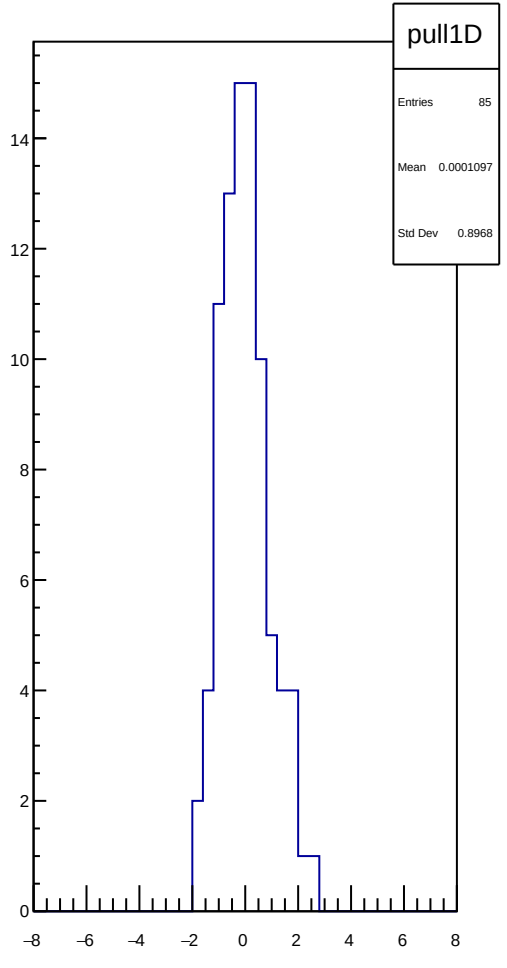

asym_sam5_correction_rms vs run
χ² / ndf 3390 / 84
p0 955.1 ± 0.7571
1050
1000
950
900
850

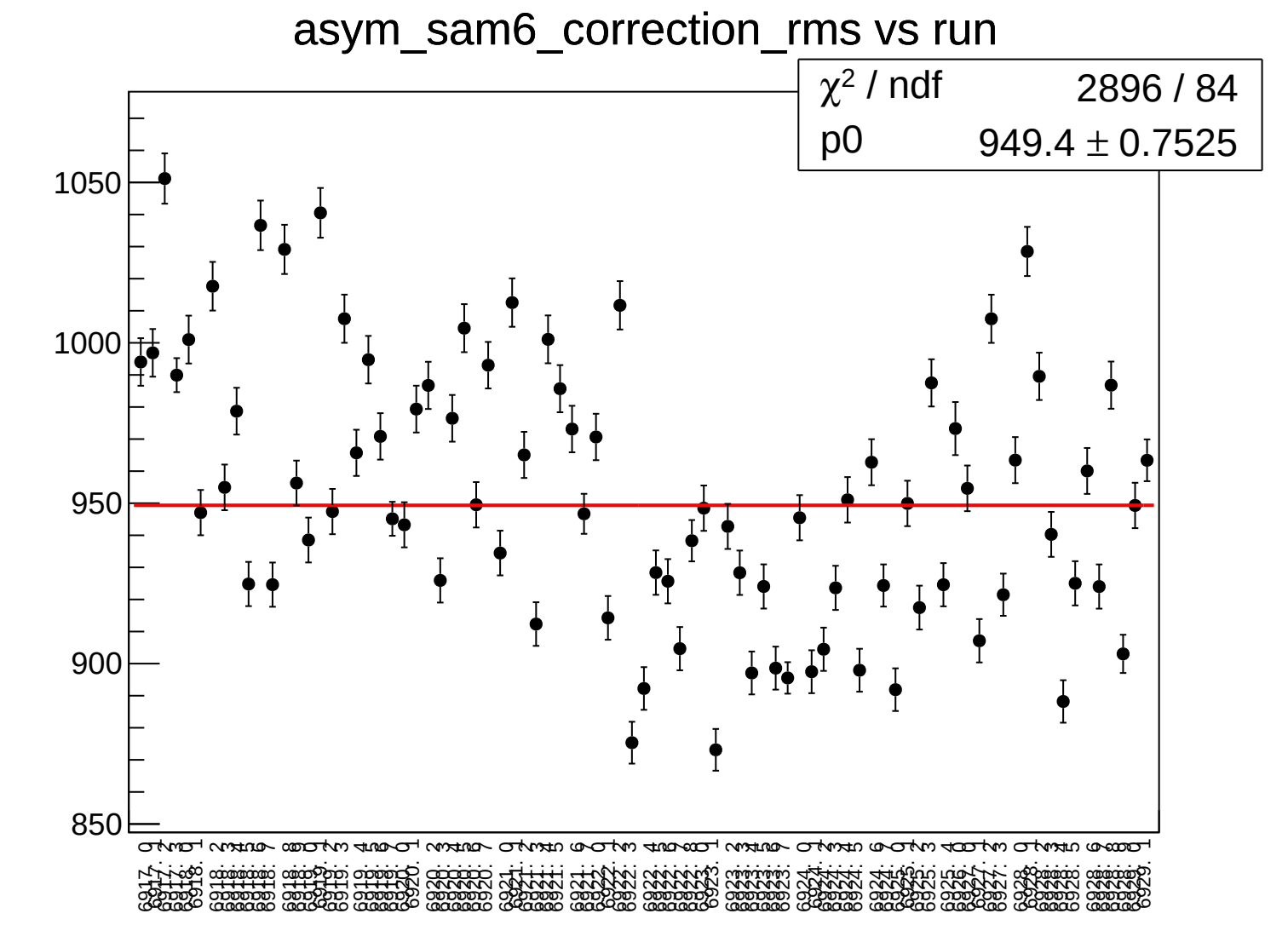

reg_asym_sam6_mean vs run
χ² / ndf 85.56 / 84
p0 109.7 ± 171.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −1.017e+04
Std Dev 1.021e+04
2
1
0
−1
−2

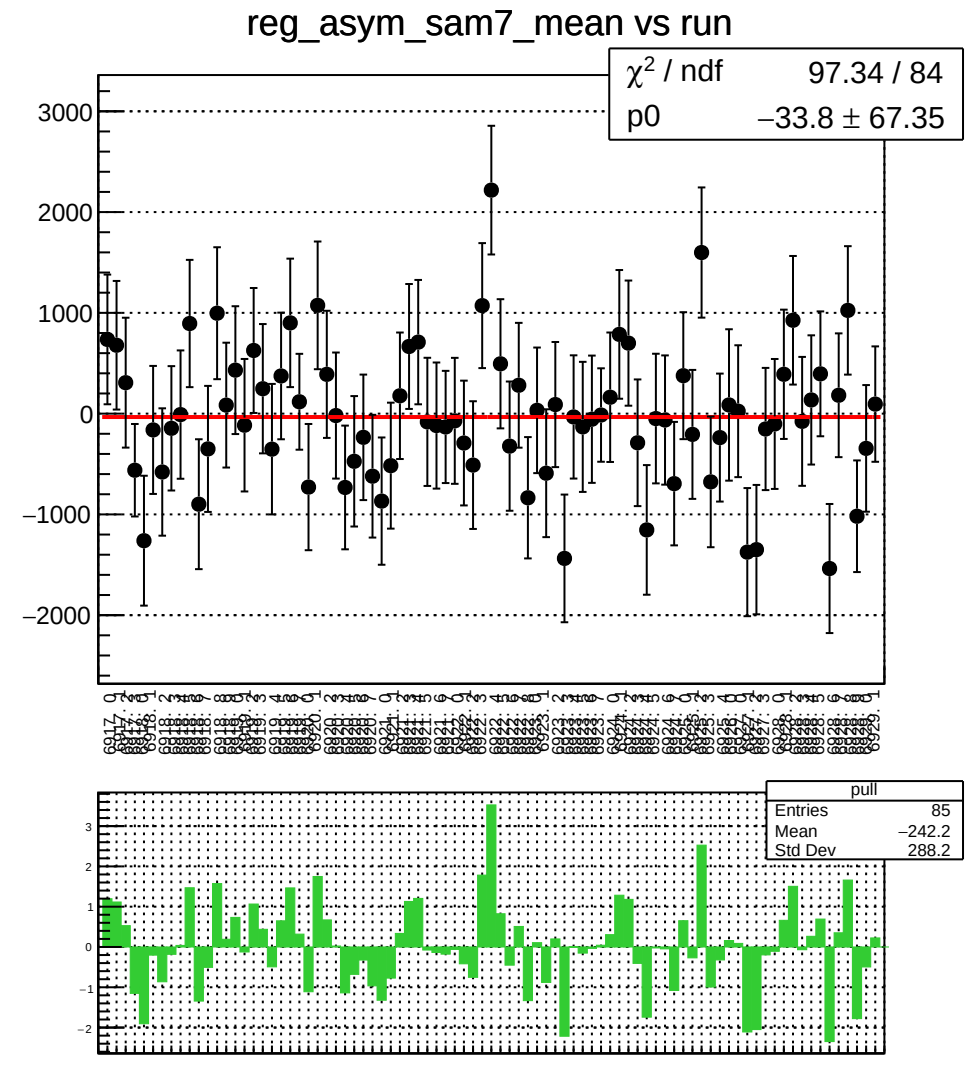

pull1D
Entries 85
Mean −0.0004986
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

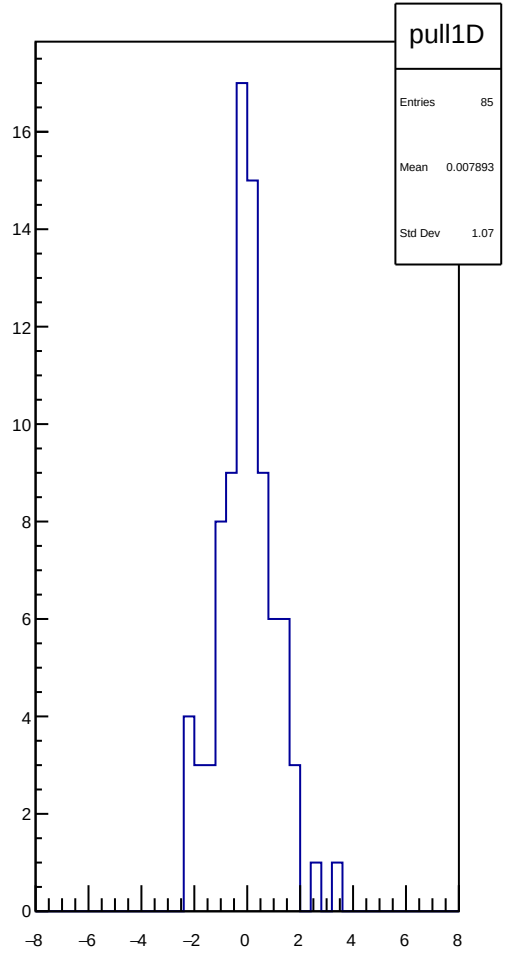

reg_asym_sam6_rms vs run
χ² / ndf 1860 / 84
p0 152.9 ± 0.1211
165
160
155
150
145
140

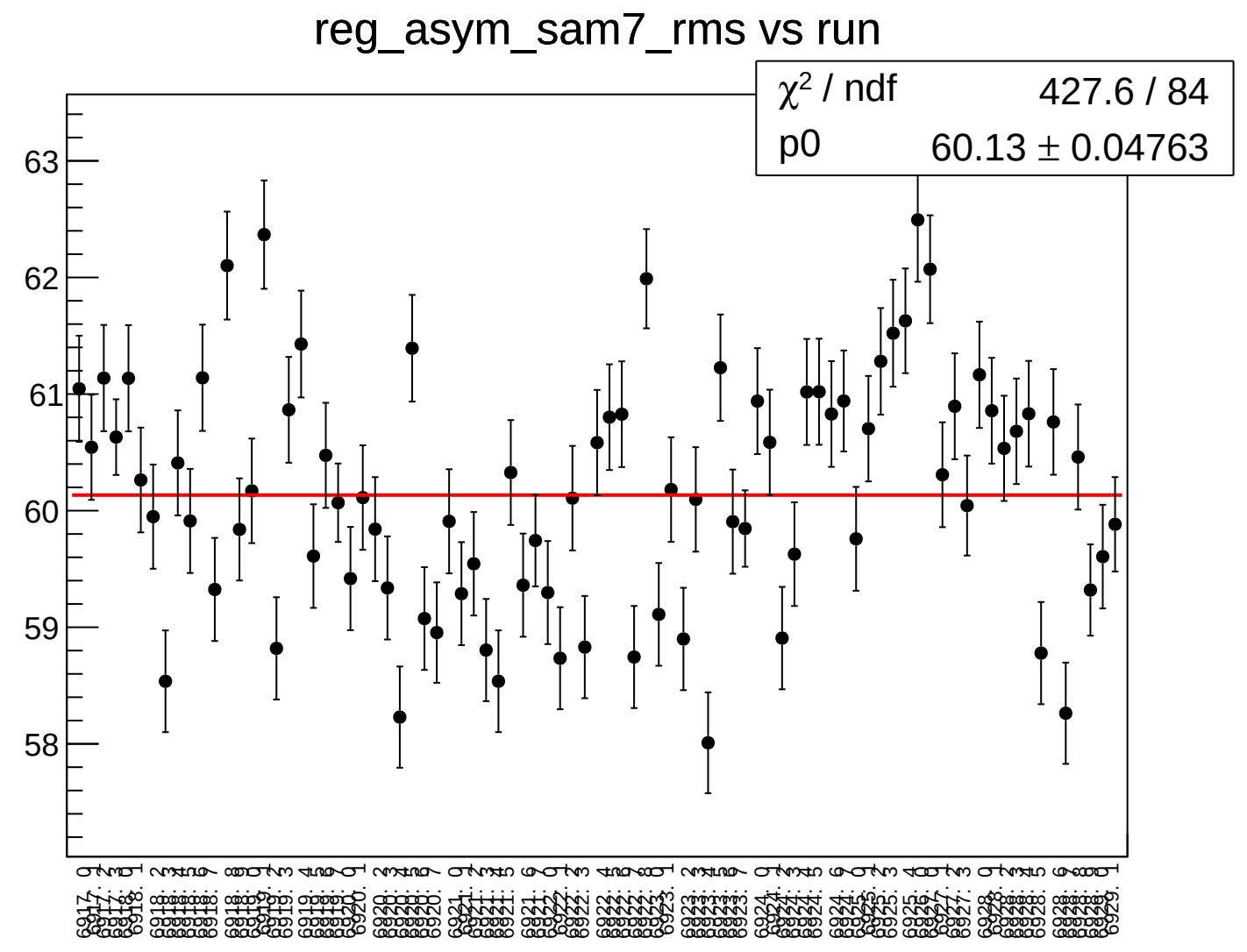

asym_sam6_correction_mean vs run
χ² / ndf 68.36 / 84
p0 474.2 ± 1064
pull
Entries 85
Mean −8624
Std Dev 8665

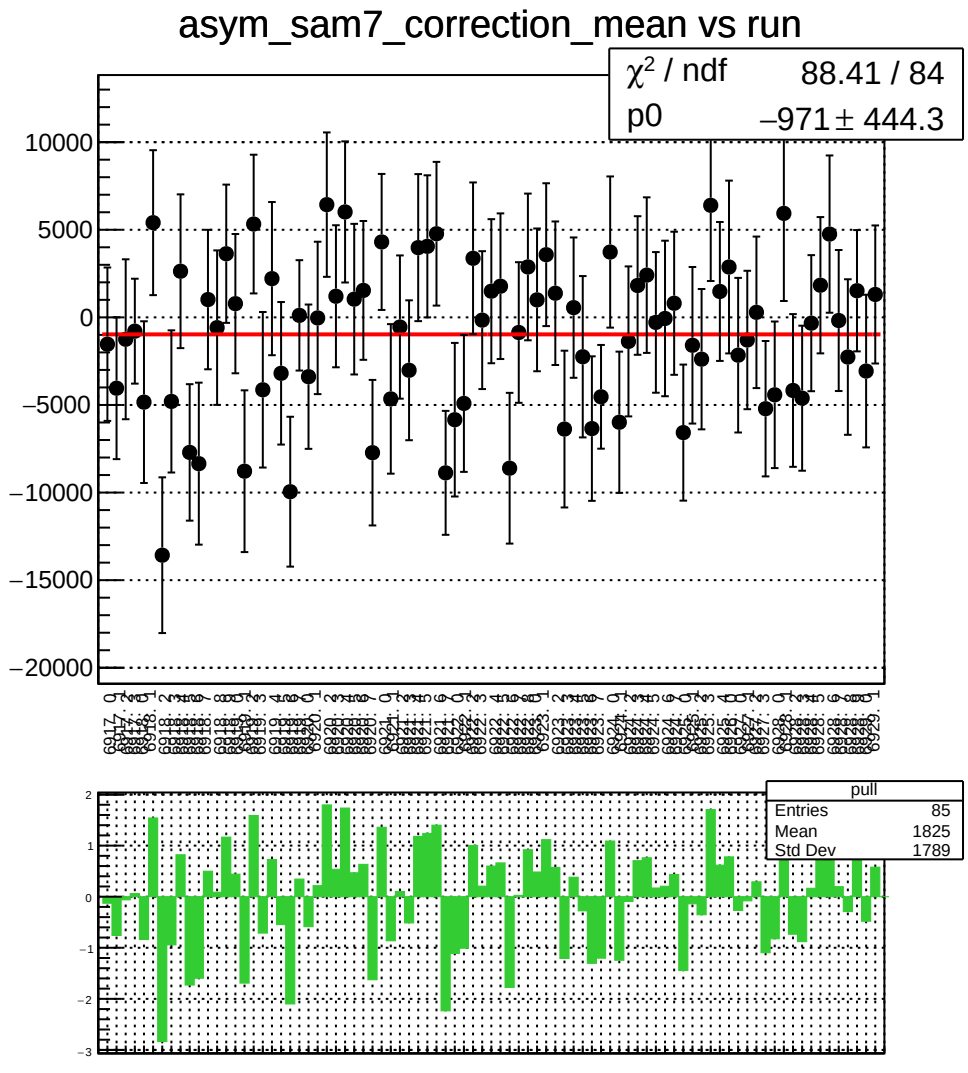

pull1D
Entries 85
Mean 0.0001097
Std Dev 0.8968

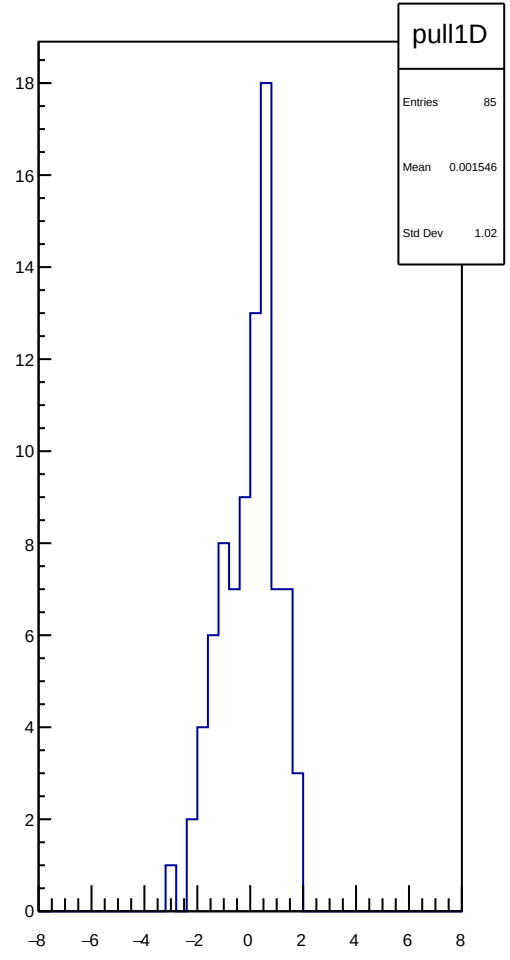

asym_sam6_correction_rms vs run
χ² / ndf 2896 / 84
p0 949.4 ± 0.7525
1050
1000
950
900
850

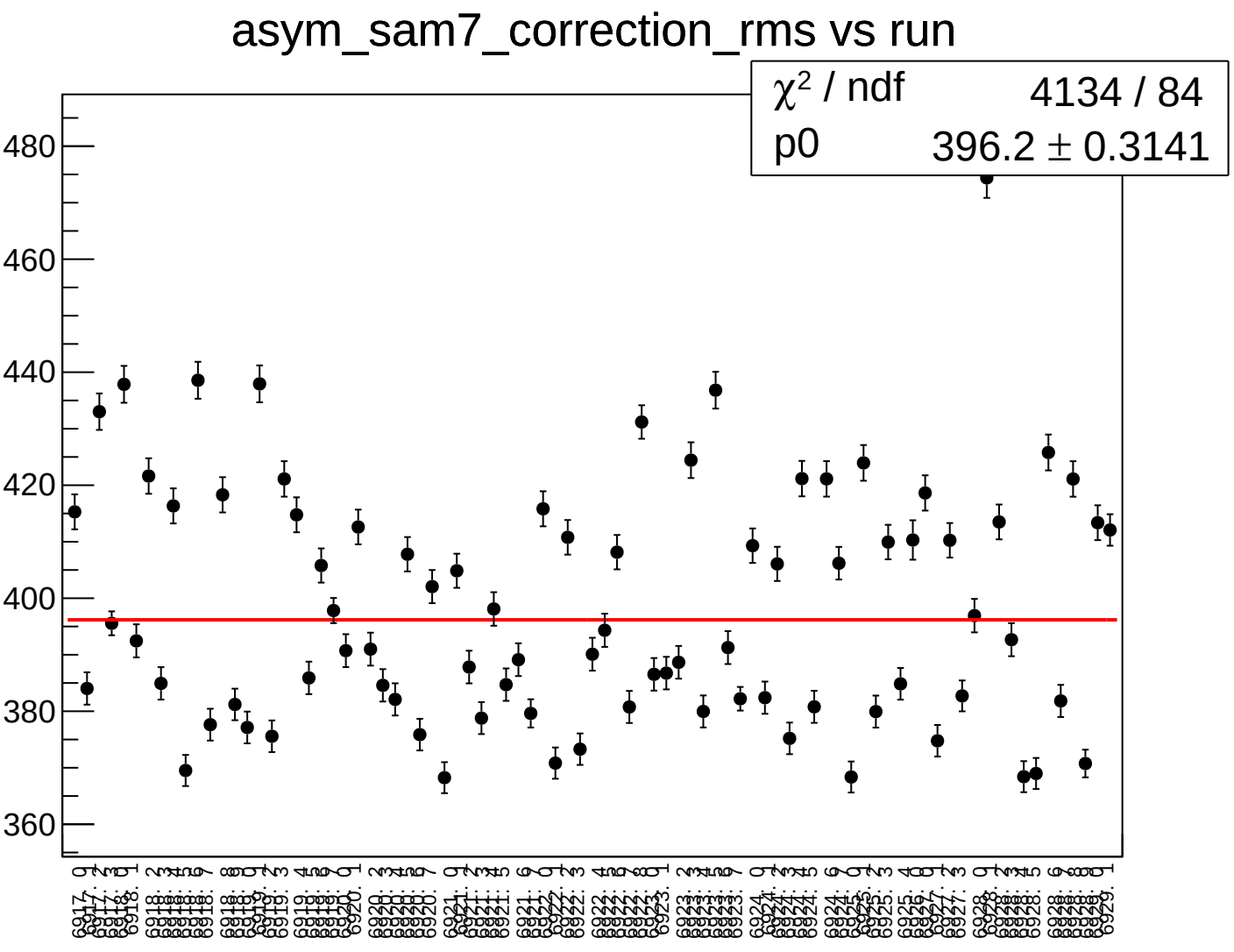

reg_asym_sam7_mean vs run
χ² / ndf 97.34 / 84
p0 −33.8 ± 67.35
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −242.2
Std Dev 288.2
3
2
1
0
−1
−2

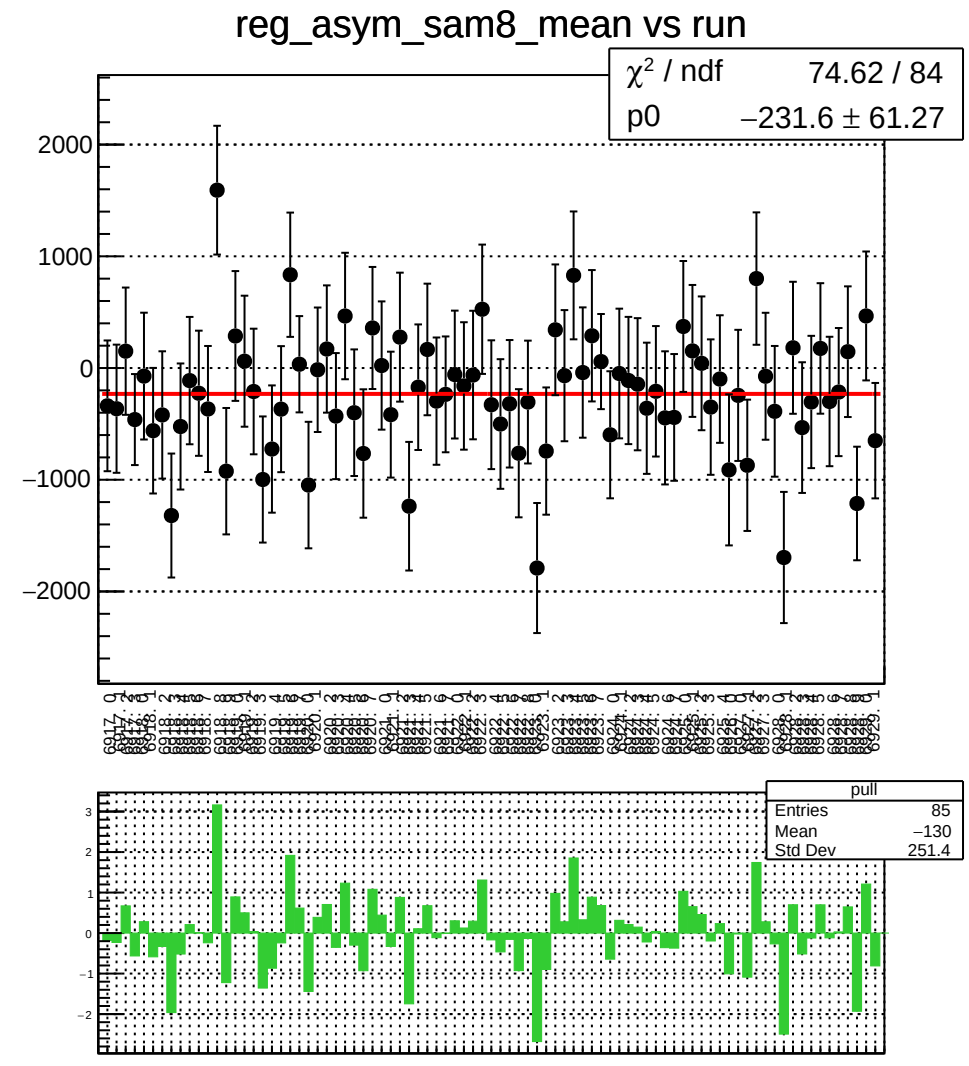

pull1D
Entries 85
Mean 0.007893
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

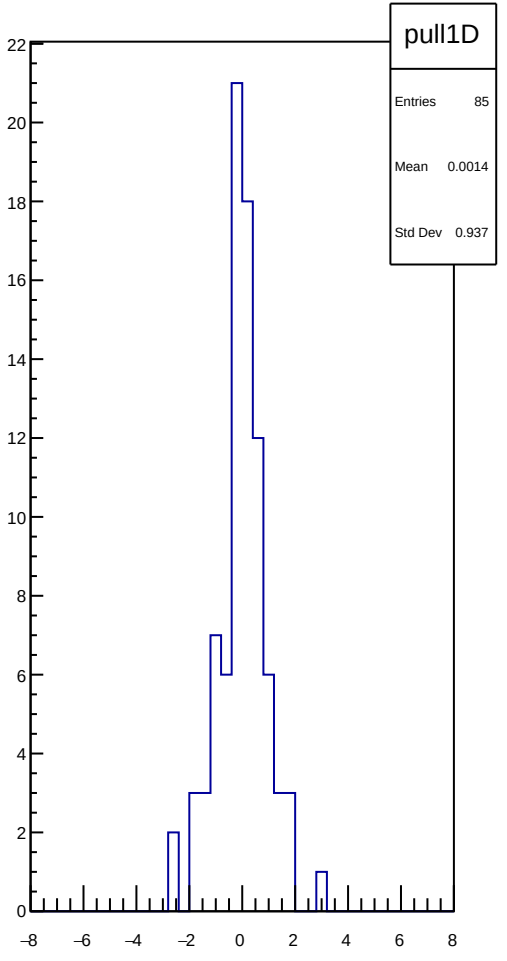

reg_asym_sam7_rms vs run
χ² / ndf 427.6 / 84
p0 60.13 ± 0.04763
63
62
61
60
59
58

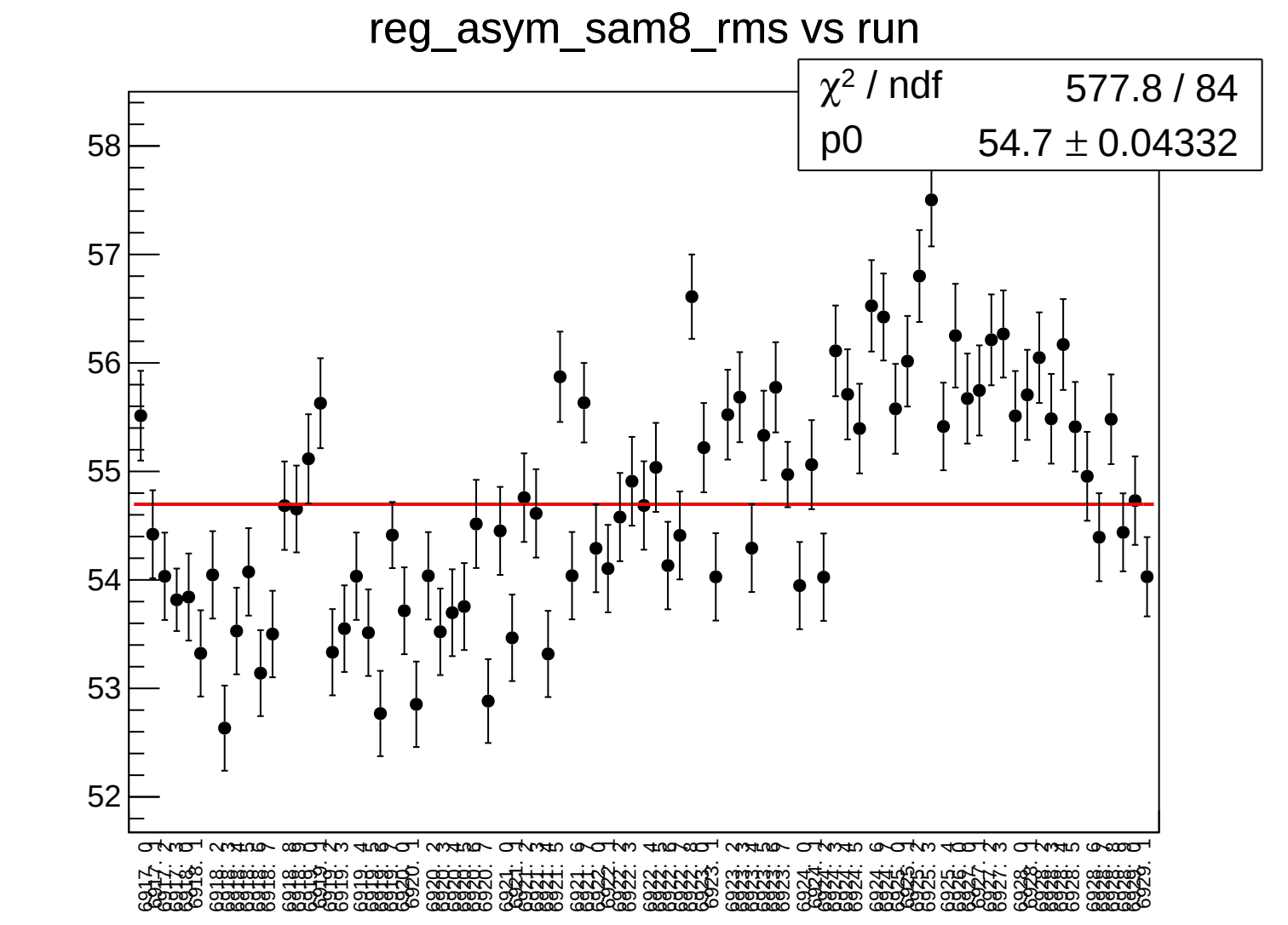

asym_sam7_correction_mean vs run
χ² / ndf 88.41 / 84
p0 −971 ± 444.3
pull
Entries 85
Mean 1825
Std Dev 1789

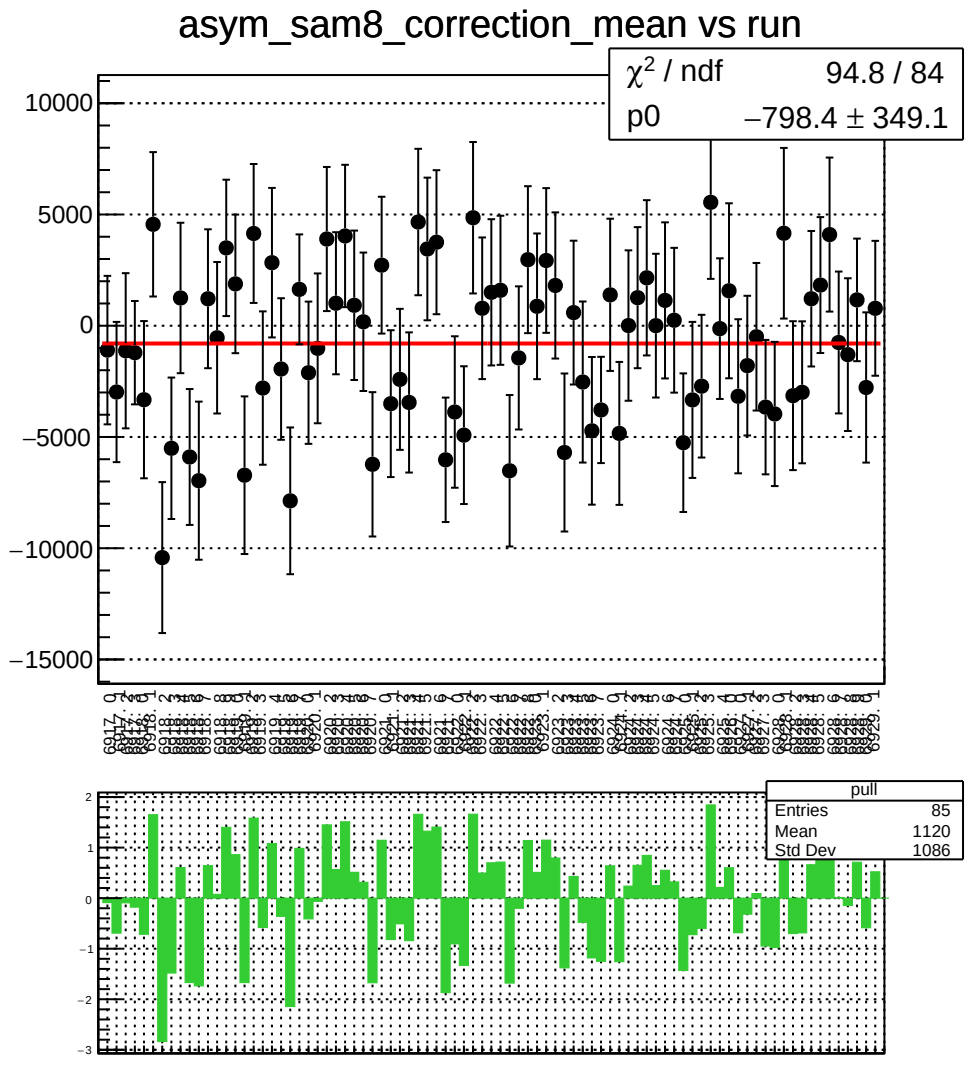

pull1D
Entries 85
Mean 0.001546
Std Dev 1.02

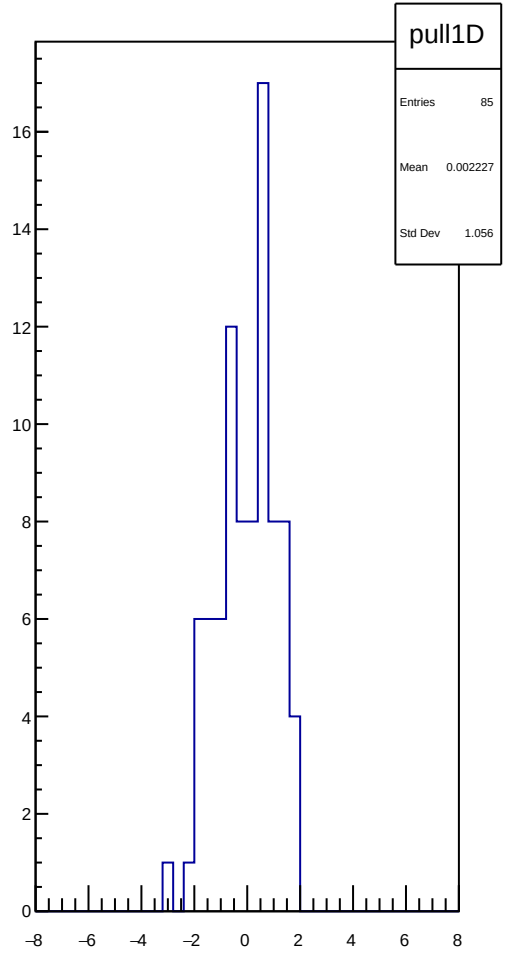

asym_sam7_correction_rms vs run
χ² / ndf 4134 / 84
p0 396.2 ± 0.3141
480
460
440
420
400
380
360

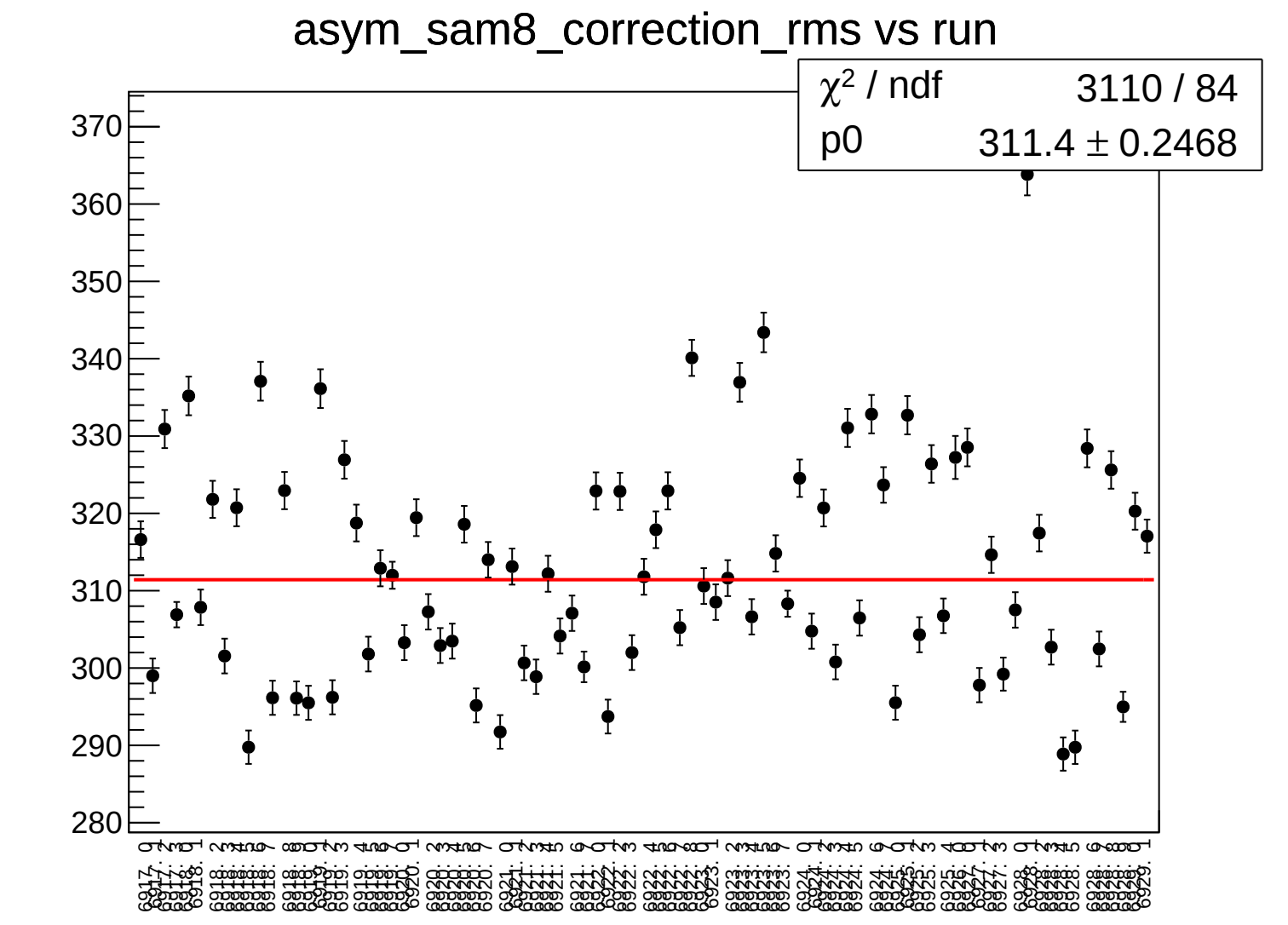

reg_asym_sam8_mean vs run
χ² / ndf 74.62 / 84
p0 −231.6 ± 61.27
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −130
Std Dev 251.4
3
2
1
0
−1
−2

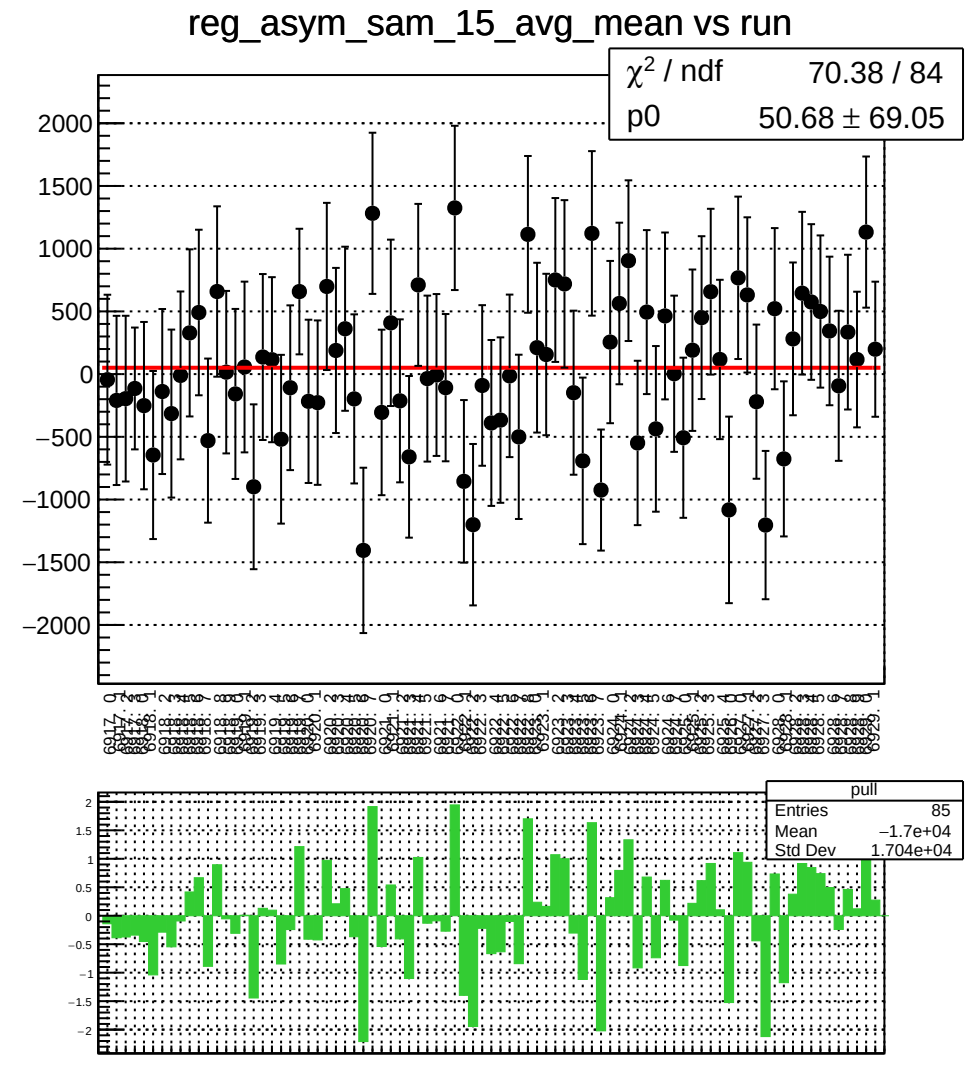

pull1D
Entries 85
Mean 0.0014
Std Dev 0.937
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

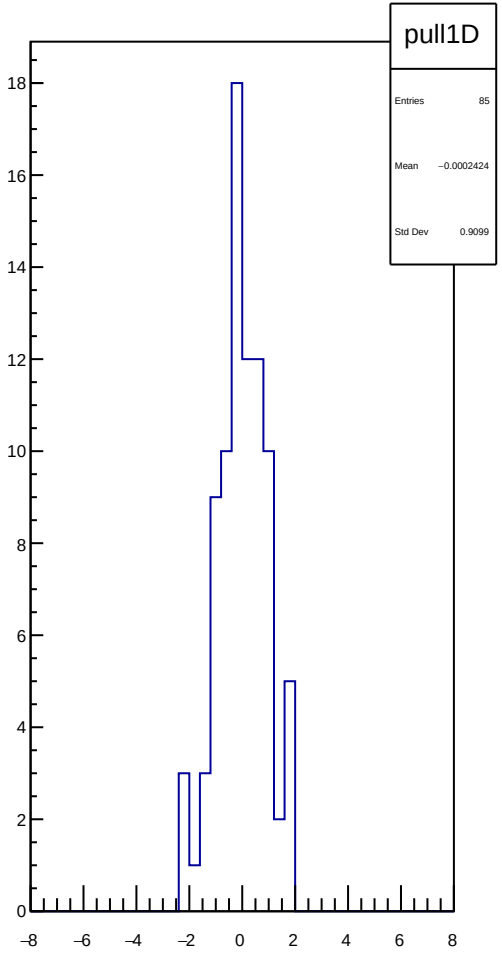

reg_asym_sam8_rms vs run
χ² / ndf 577.8 / 84
p0 54.7 ± 0.04332
58
57
56
55
54
53
52

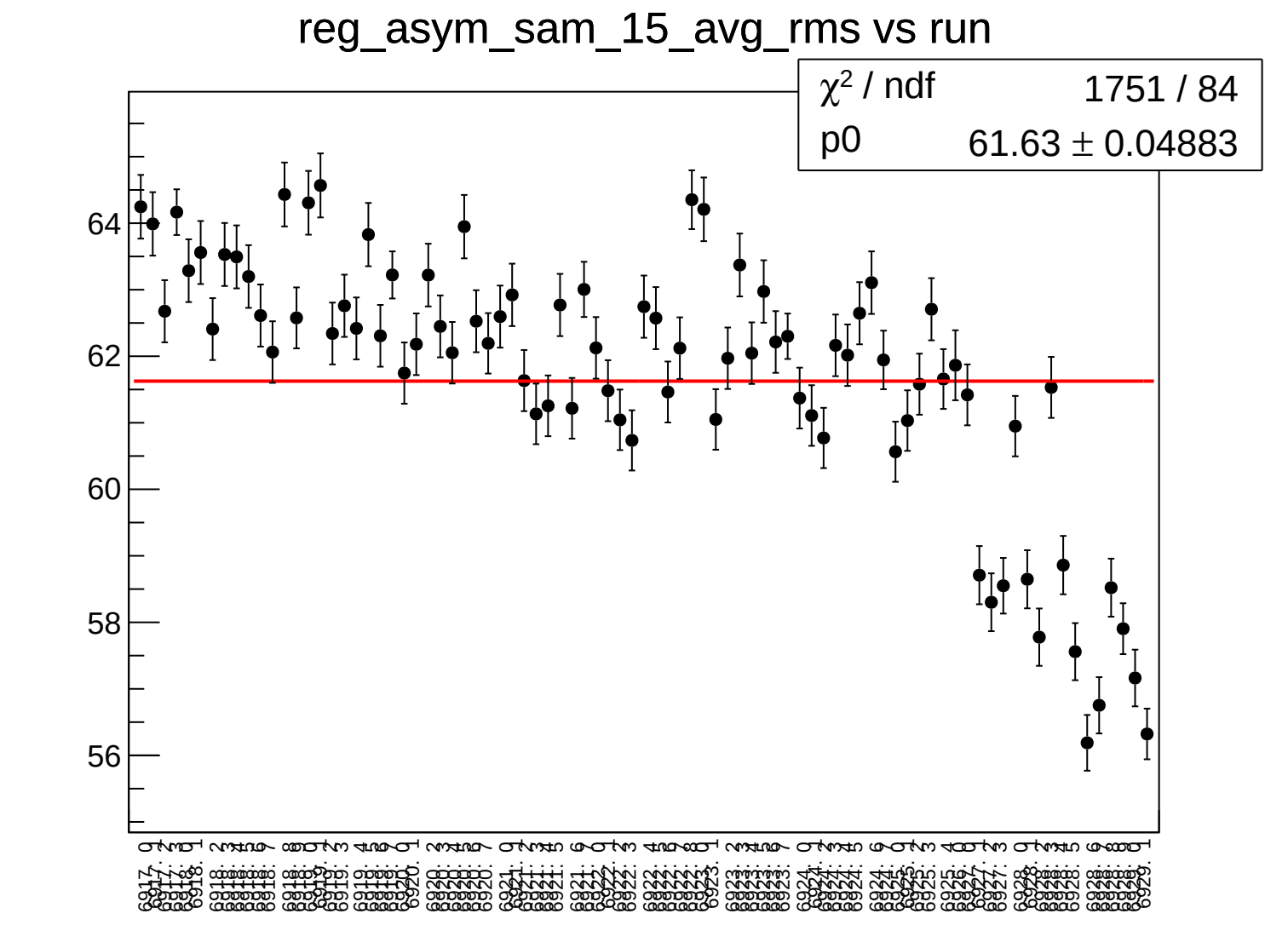

asym_sam8_correction_mean vs run
χ² / ndf 94.8 / 84
p0 −798.4 ± 349.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 1120
Std Dev 1086
2
1
0
−1
−2
−3

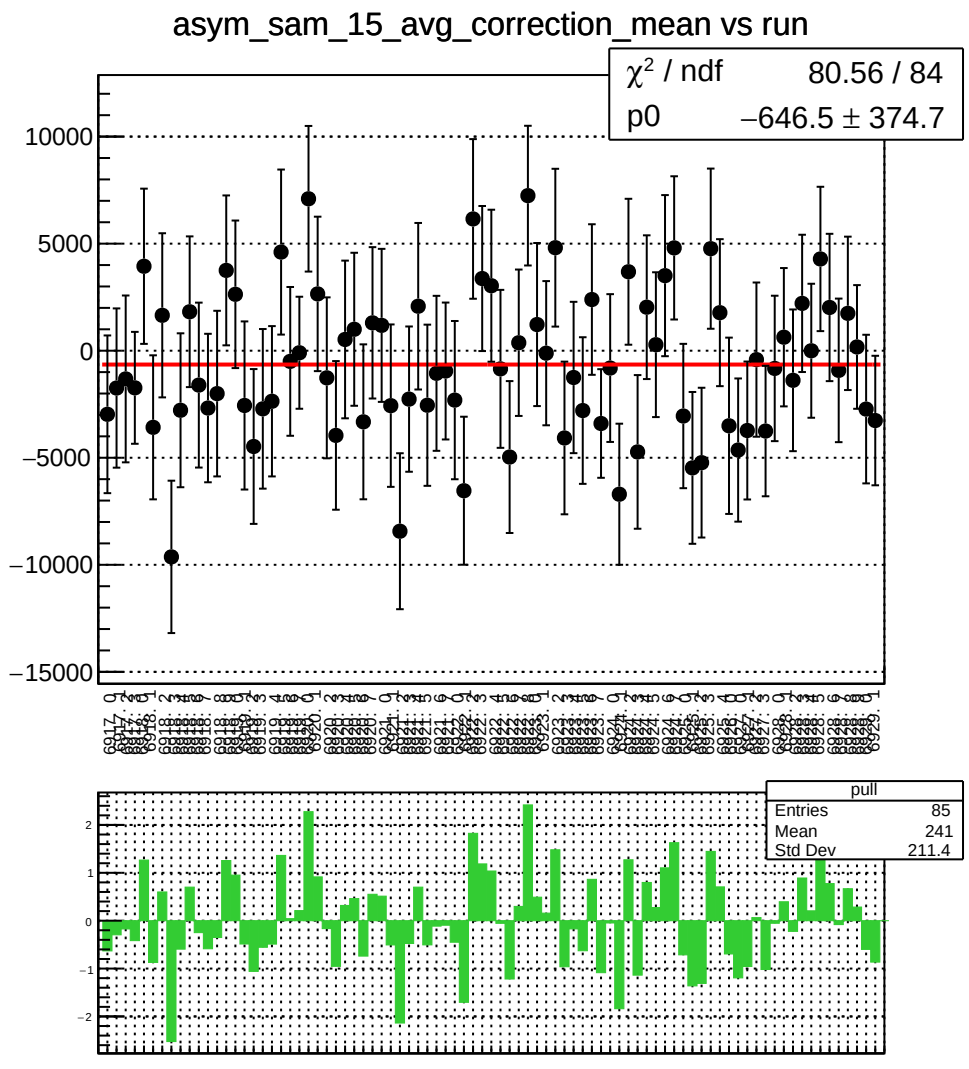

pull1D
Entries 85
Mean 0.002227
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

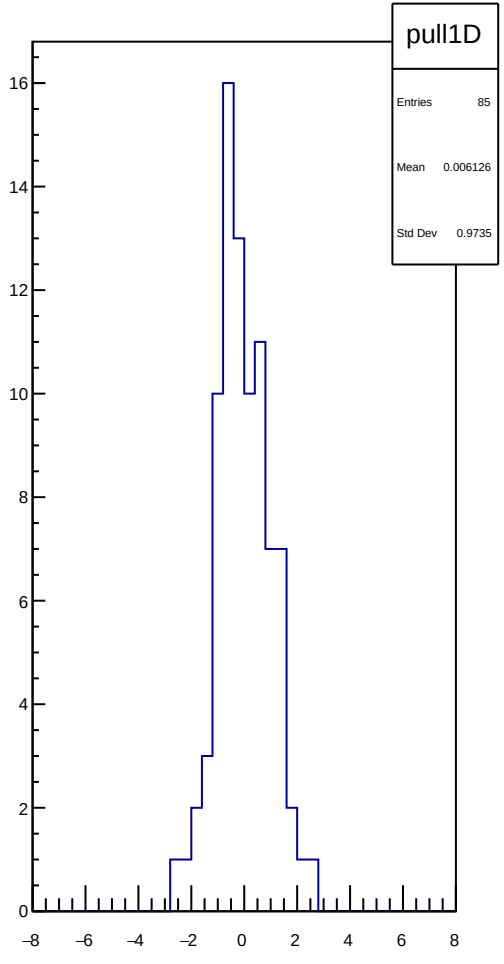

asym_sam8_correction_rms vs run
χ^2 / ndf 3110 / 84
p0 311.4 ± 0.2468
370
360
350
340
330
320
310
300
290
280

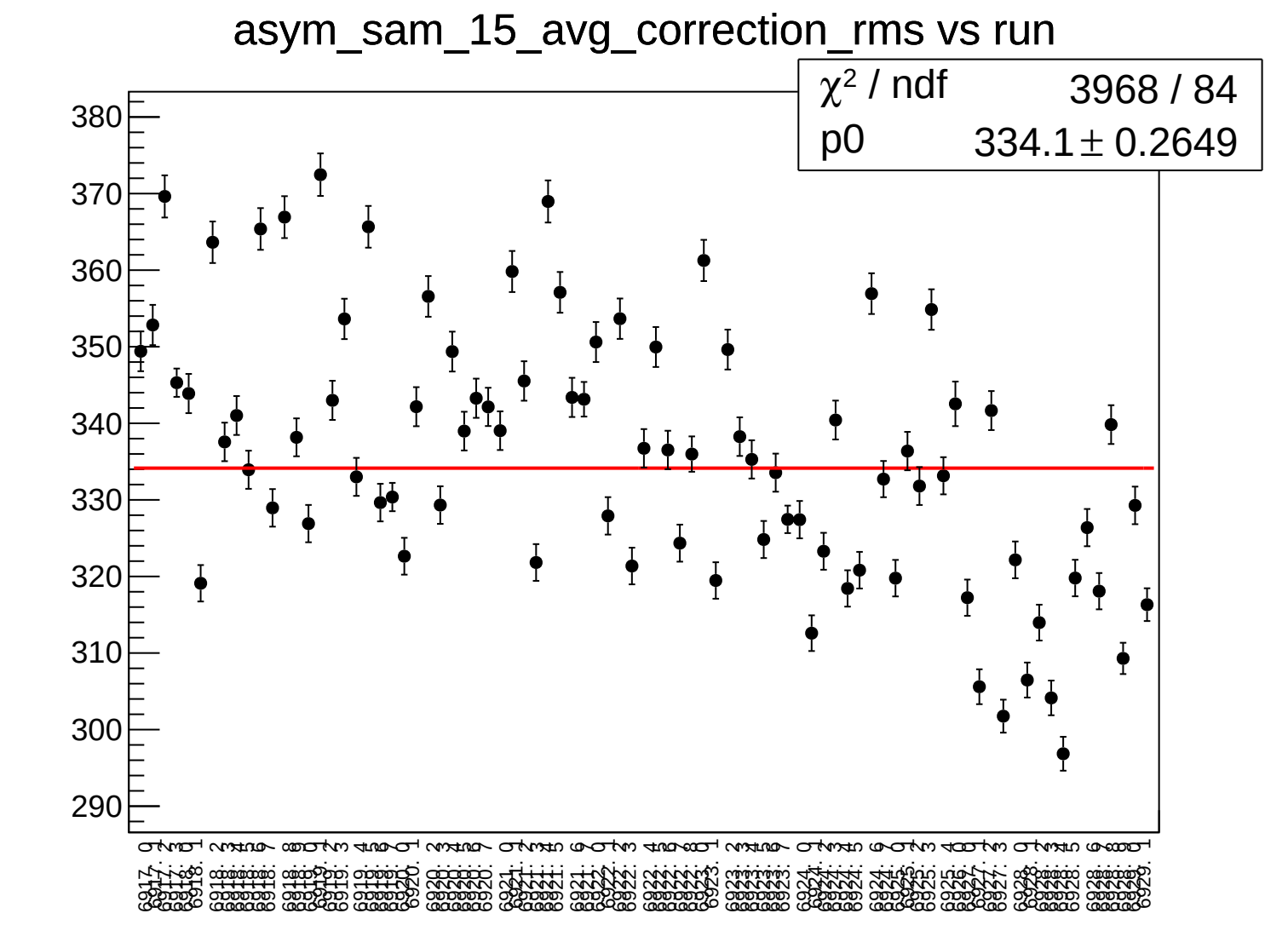

reg_asym_sam_15_avg_mean vs run
χ² / ndf 70.38 / 84
p0 50.68 ± 69.05
pull
Entries 85
Mean −1.7e+04
Std Dev 1.704e+04

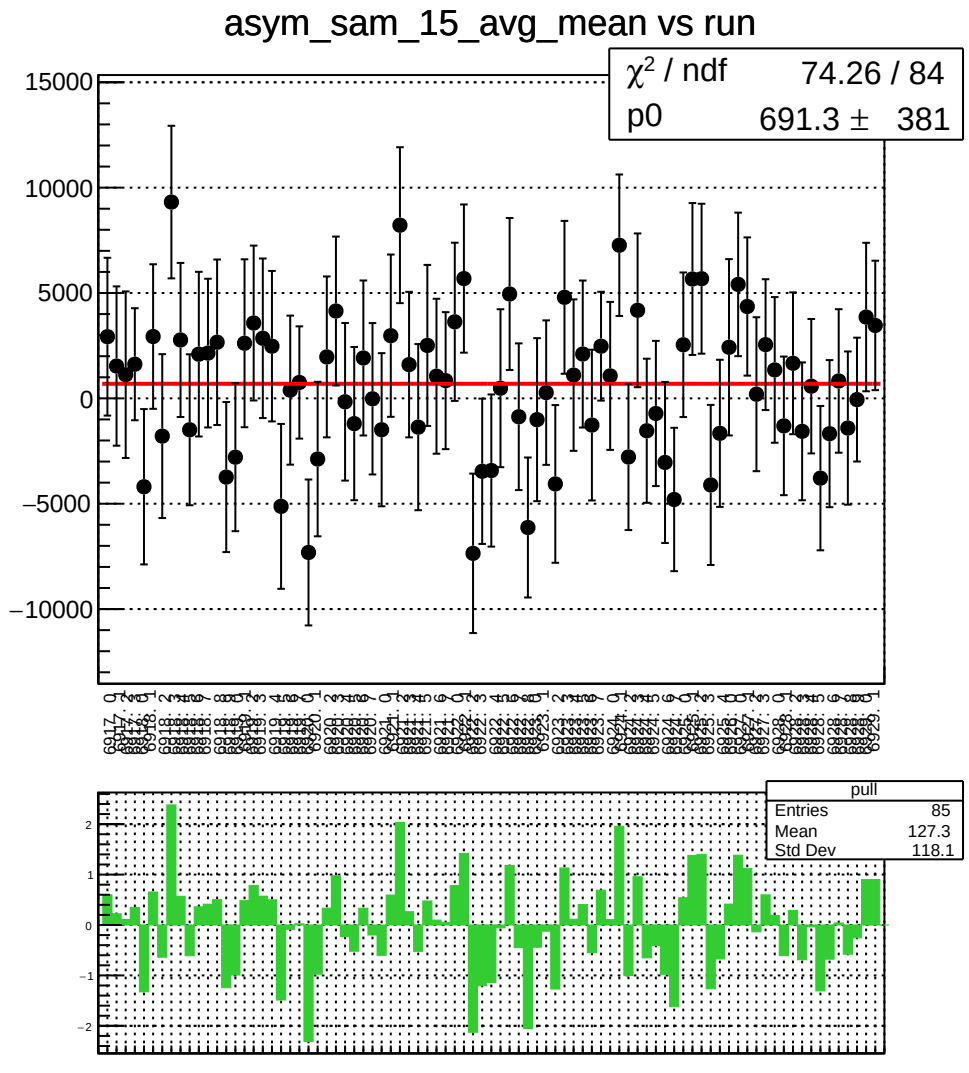

pull1D
Entries 85
Mean −0.0002424
Std Dev 0.9099

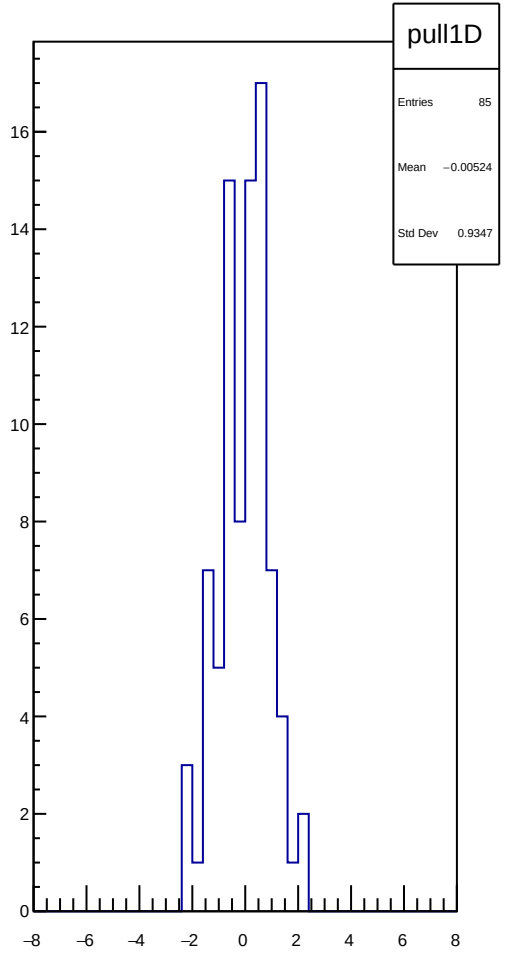

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1751 / 84
p0 61.63 ± 0.04883
64
62
60
58
56

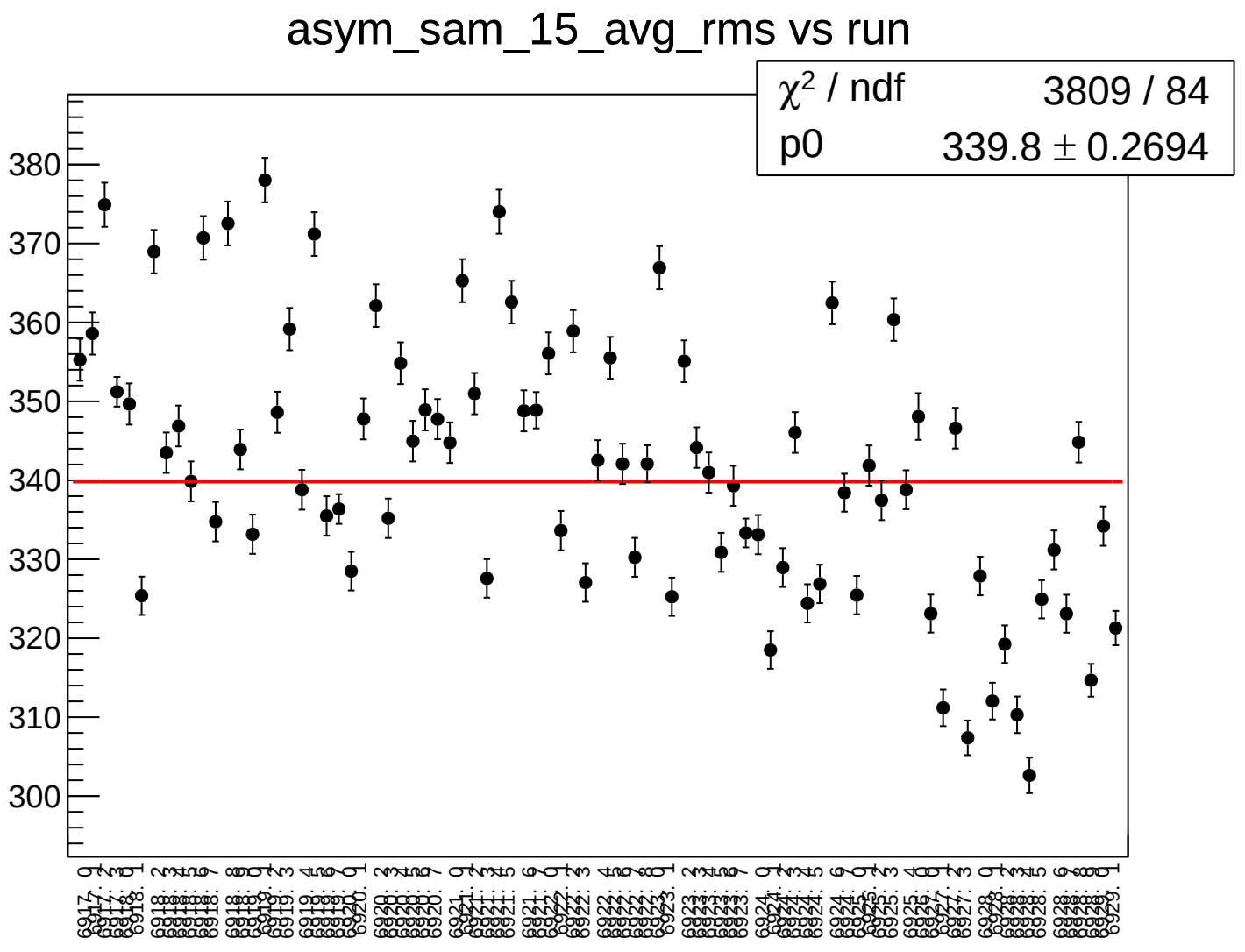

asym_sam_15_avg_correction_mean vs run
χ² / ndf 80.56 / 84
p0 −646.5 ± 374.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 241
Std Dev 211.4
2
1
0
−1
−2

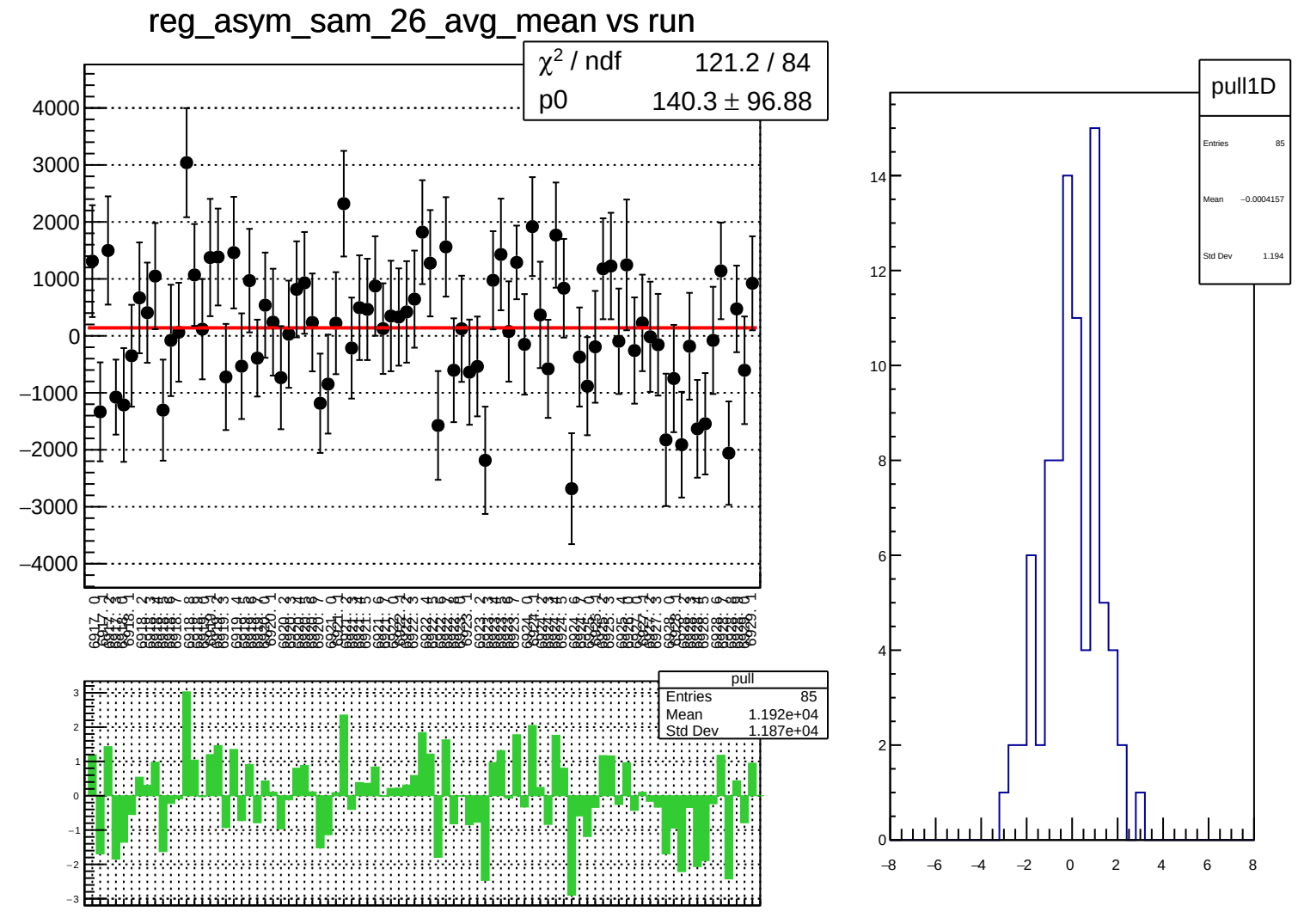

pull1D
Entries 85
Mean 0.006126
Std Dev 0.9735
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

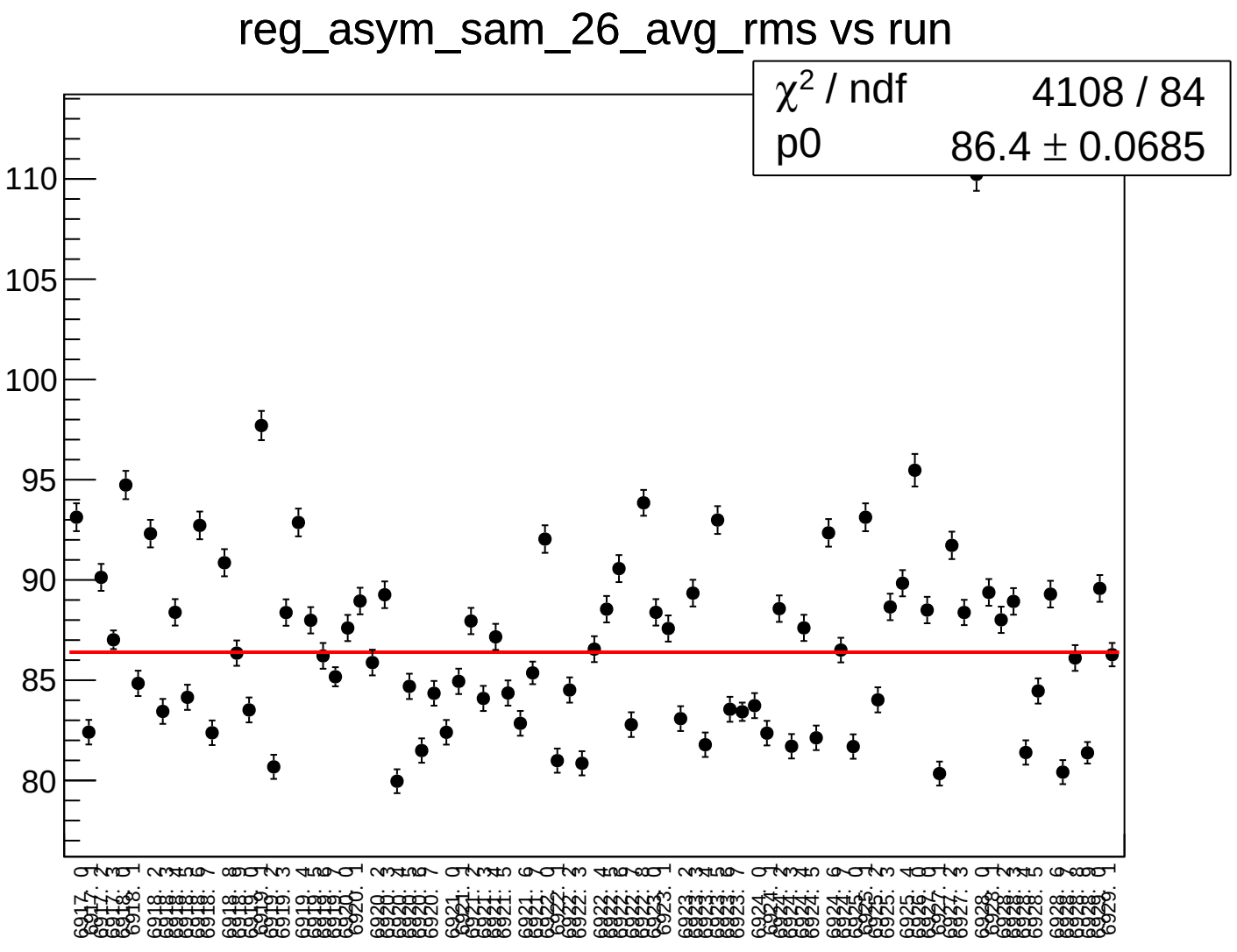

asym_sam_15_avg_correction_rms vs run
χ² / ndf 3968 / 84
p0 334.1 ± 0.2649
380
370
360
350
340
330
320
310
300
290

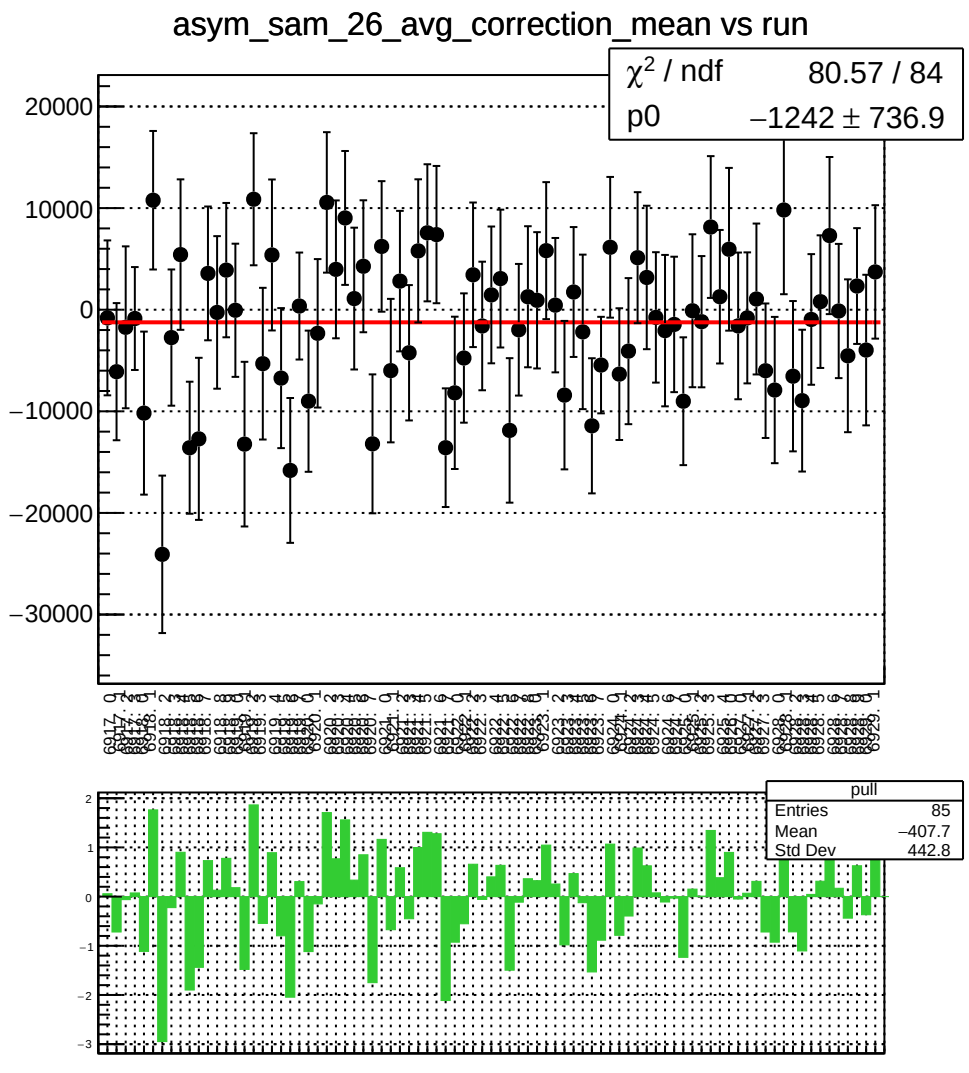

asym_sam_15_avg_mean vs run
χ² / ndf 74.26 / 84
p0 691.3 ± 381
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 127.3
Std Dev 118.1
2
1
0
−1
−2

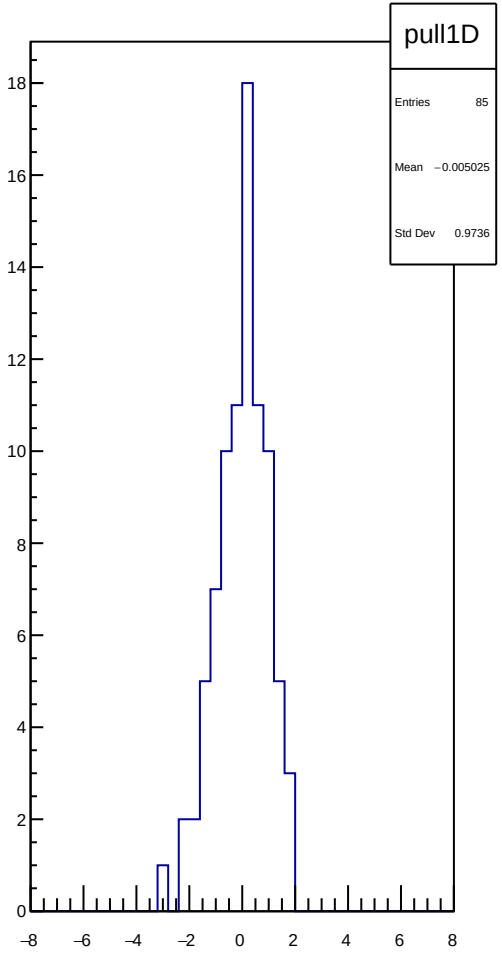

pull1D
Entries 85
Mean −0.00524
Std Dev 0.9347
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

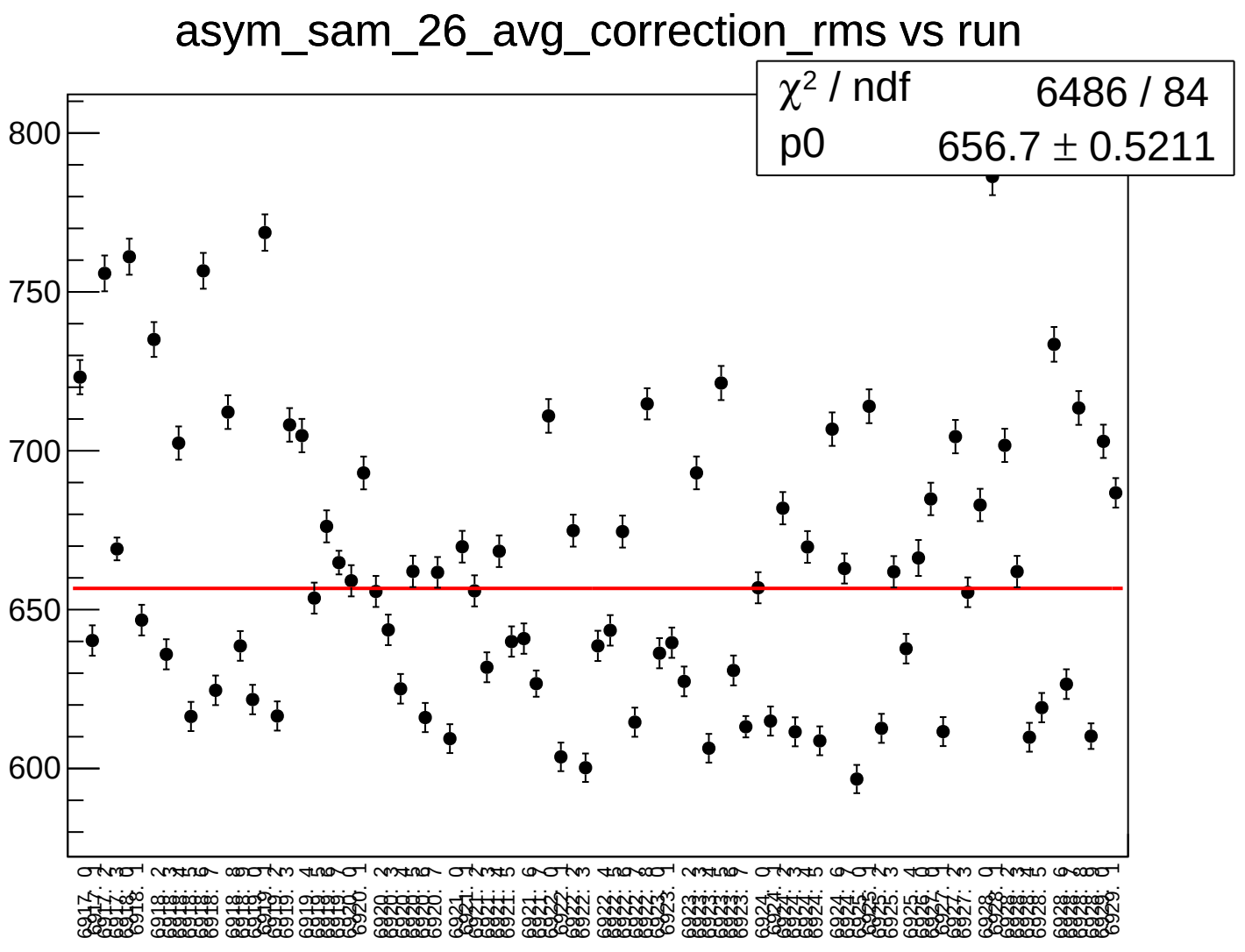

asym_sam_15_avg_rms vs run
χ² / ndf 3809 / 84
p0 339.8 ± 0.2694
380
370
360
350
340
330
320
310
300

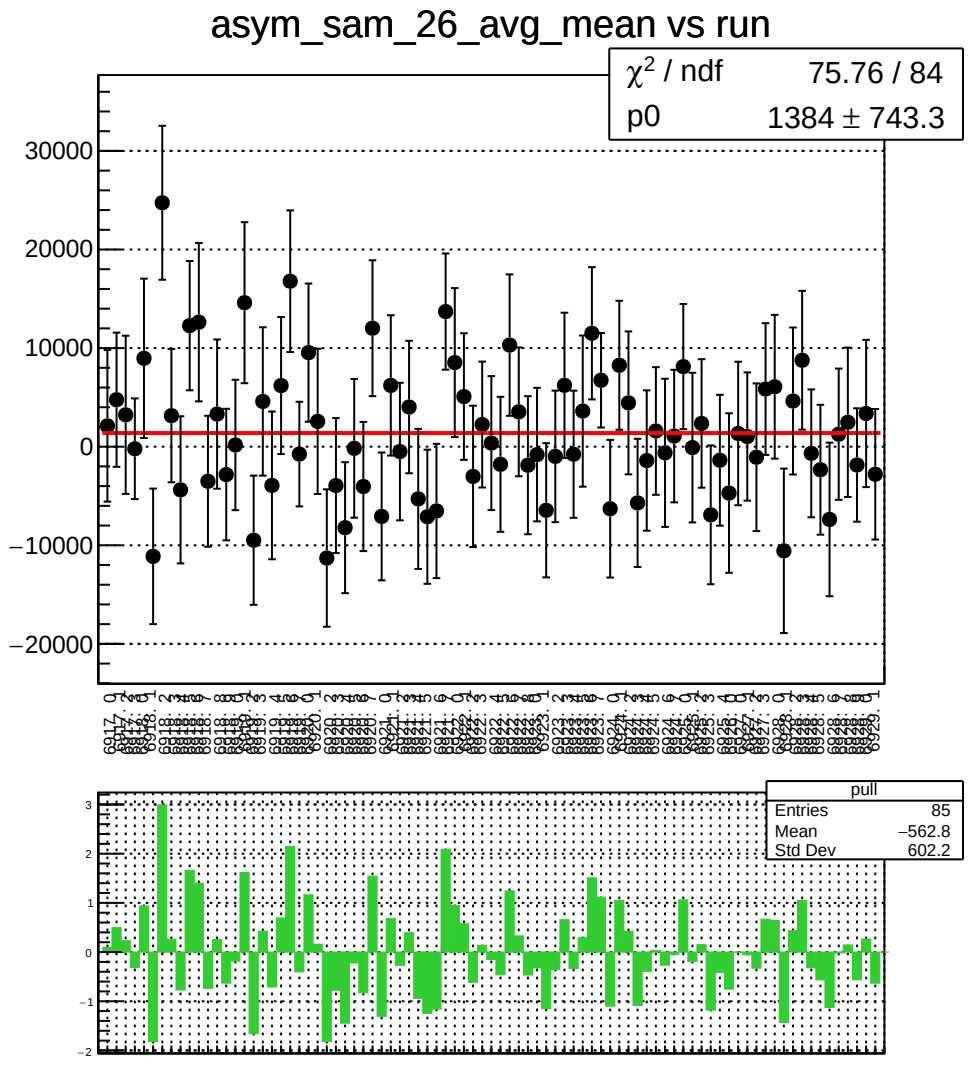

reg_asym_sam_26_avg_mean vs run
χ² / ndf 121.2 / 84
p0 140.3 ± 96.88
pull
Entries 85
Mean 1.192e+04
Std Dev 1.187e+04
pull1D
Entries 85
Mean −0.0004157
Std Dev 1.194

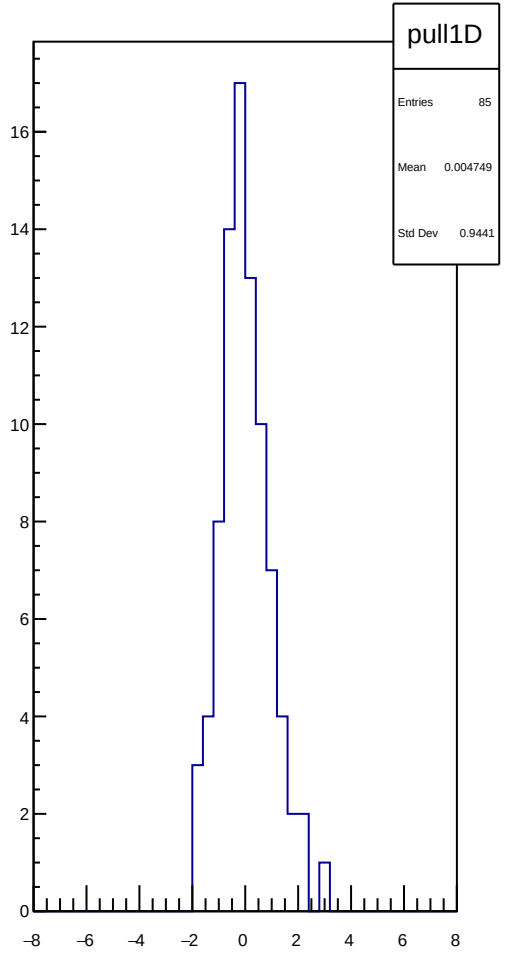

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 4108 / 84
p0 86.4 ± 0.0685
110
105
100
95
90
85
80

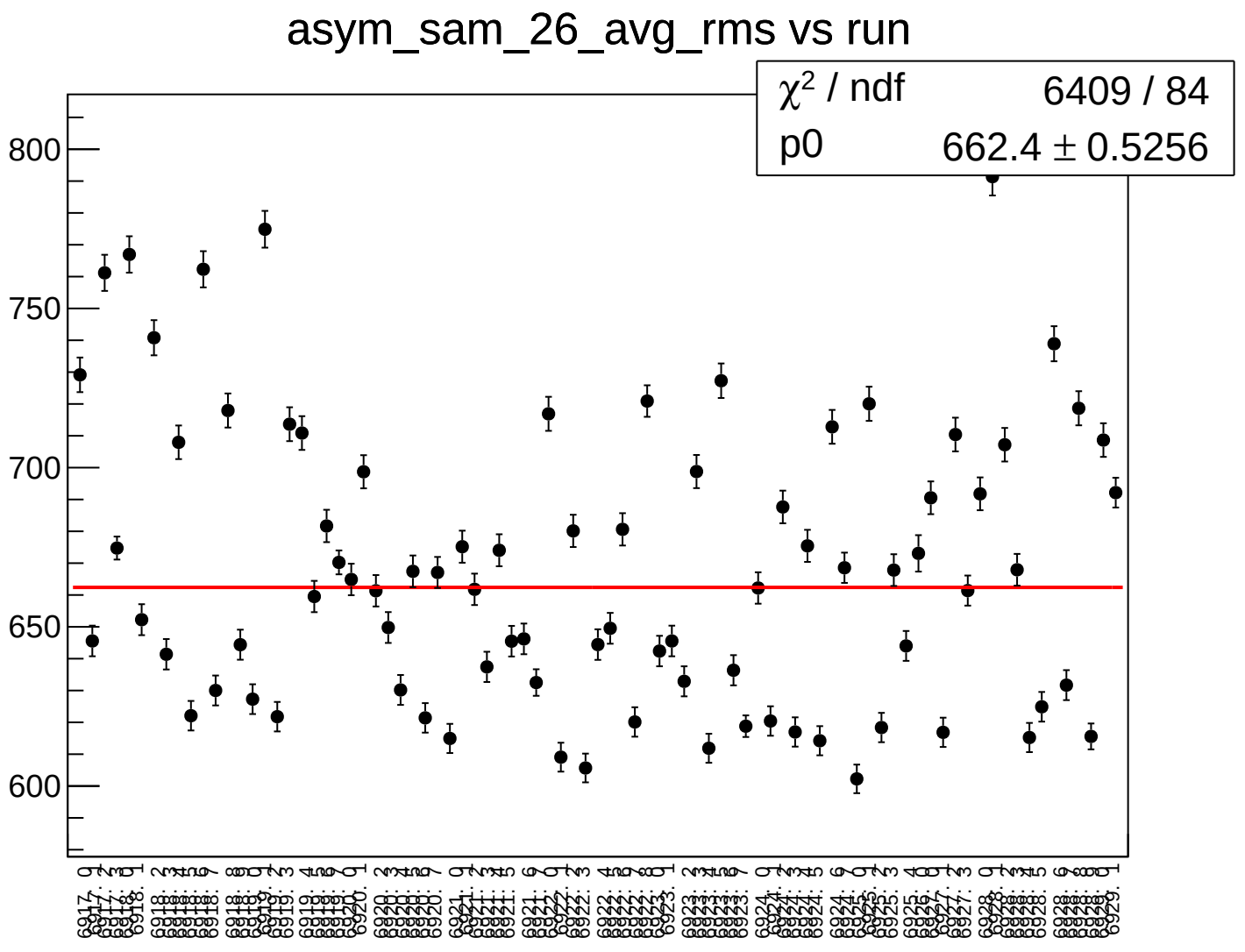

asym_sam_26_avg_correction_mean vs run
χ² / ndf 80.57 / 84
p0 −1242 ± 736.9
pull
Entries 85
Mean −407.7
Std Dev 442.8

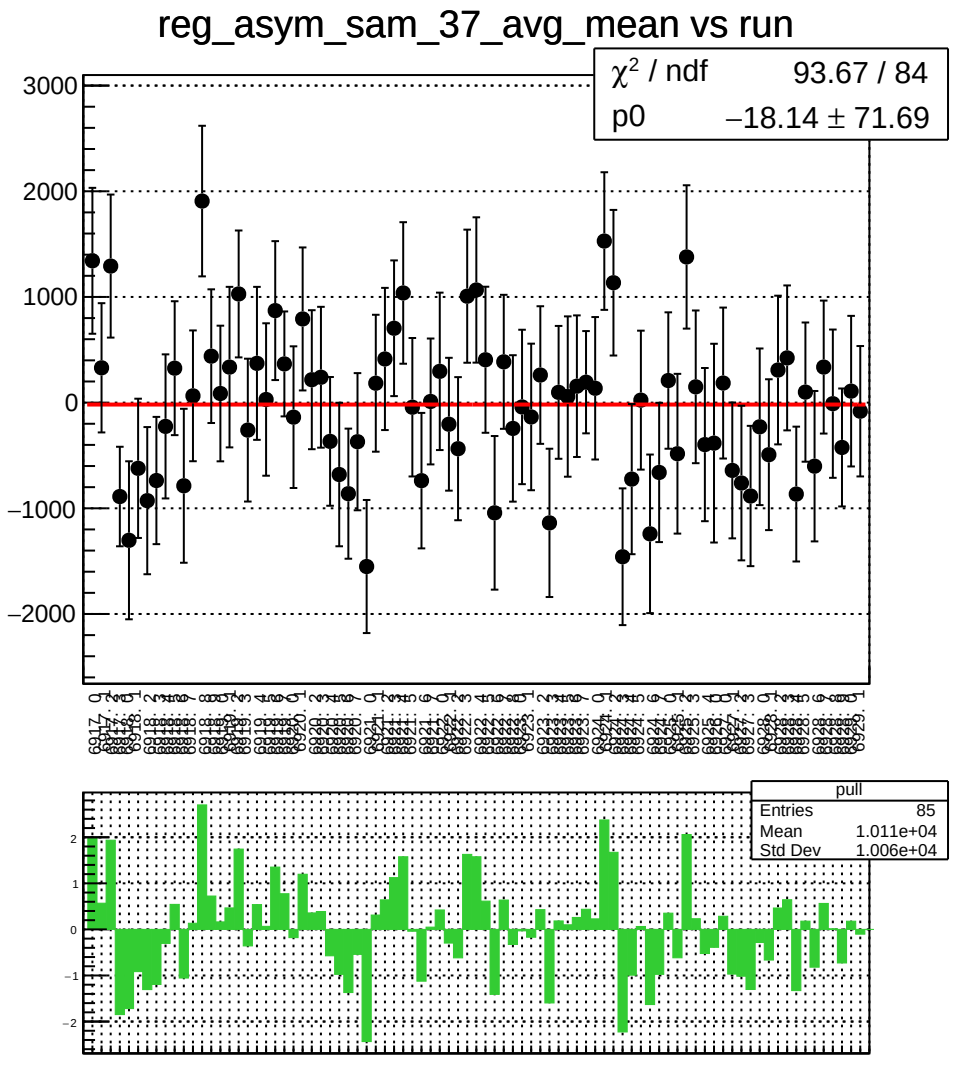

pull1D
Entries 85
Mean −0.005025
Std Dev 0.9736

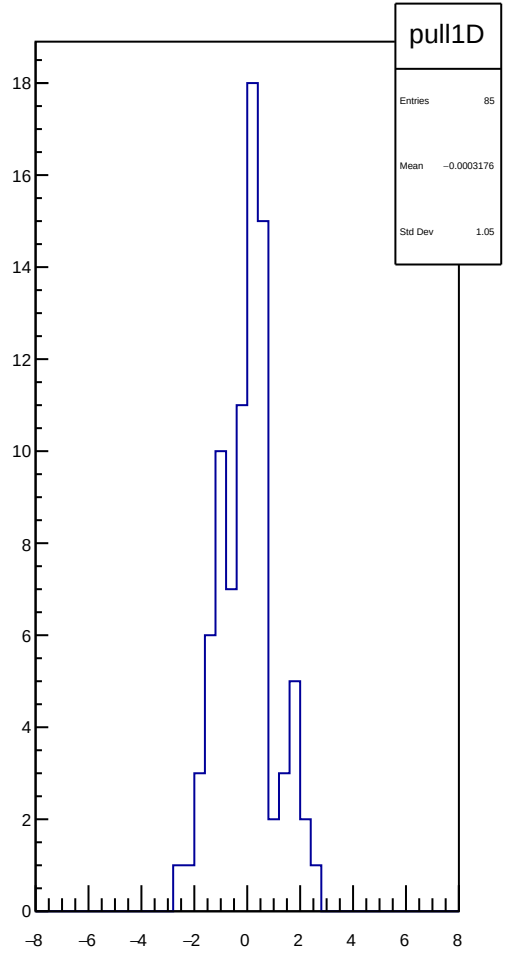

asym_sam_26_avg_correction_rms vs run
χ² / ndf 6486 / 84
p0 656.7 ± 0.5211
800
750
700
650
600

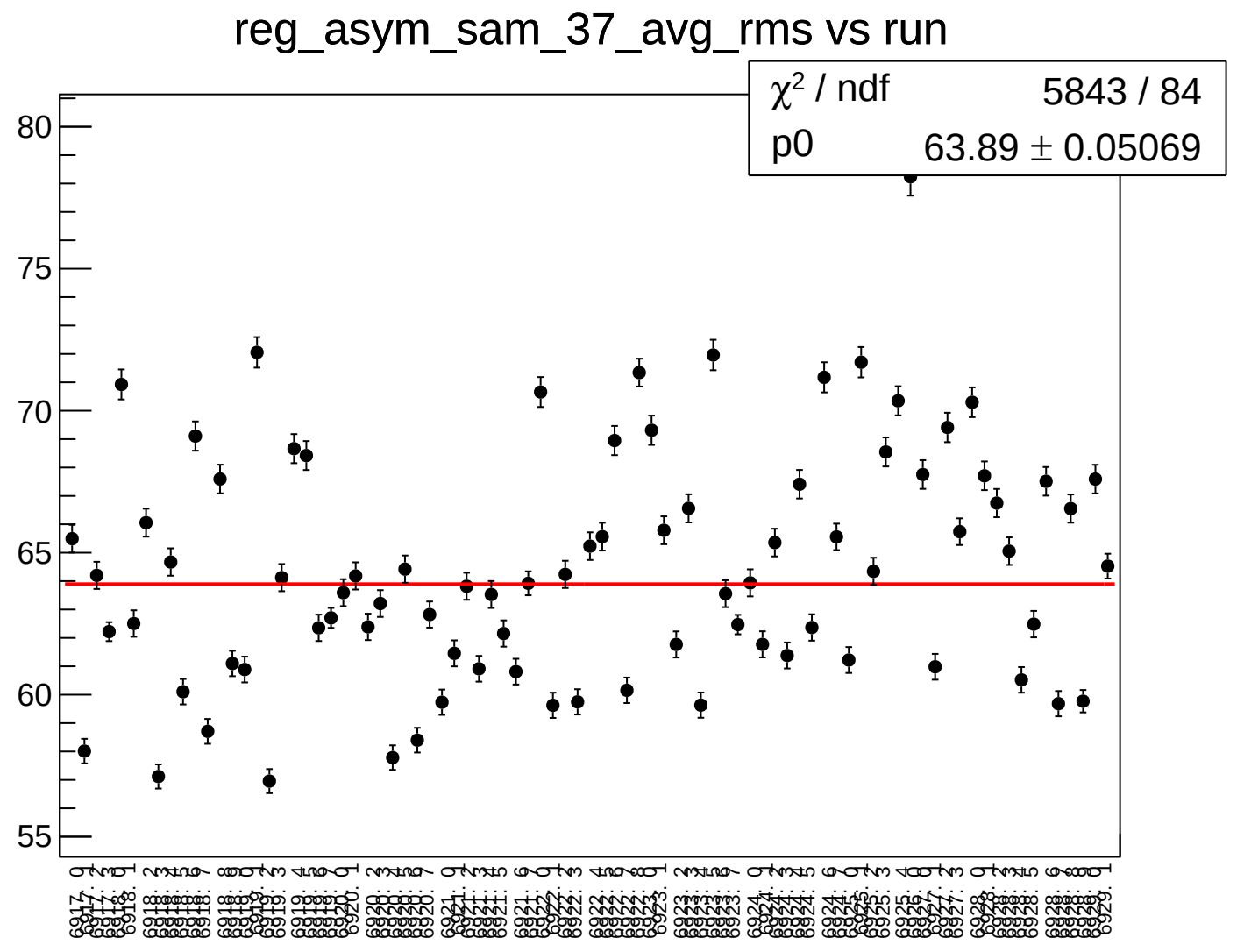

asym_sam_26_avg_mean vs run
χ² / ndf 75.76 / 84
p0 1384 ± 743.3
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −562.8
Std Dev 602.2
3
2
1
0
−1
−2

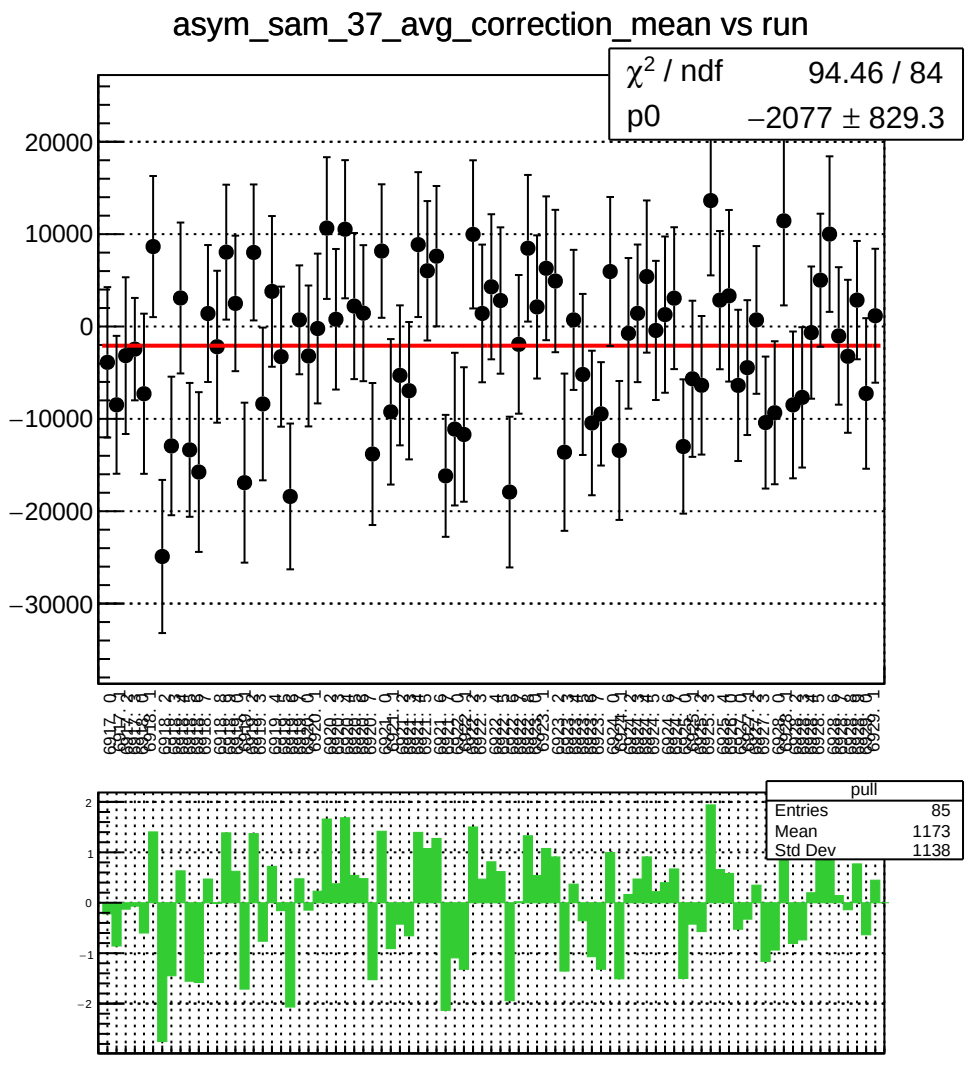

pull1D
Entries 85
Mean 0.004749
Std Dev 0.9441
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

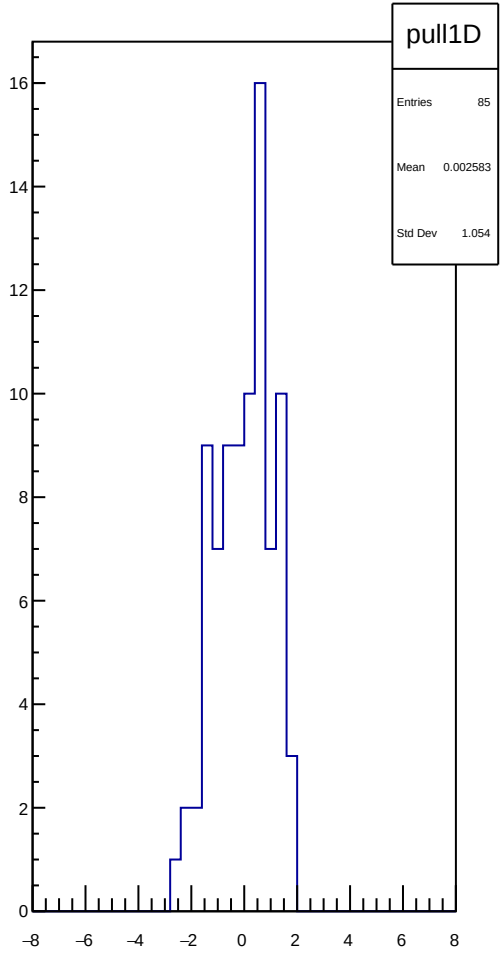

asym_sam_26_avg_rms vs run
χ² / ndf 6409 / 84
p0 662.4 ± 0.5256
800
750
700
650
600

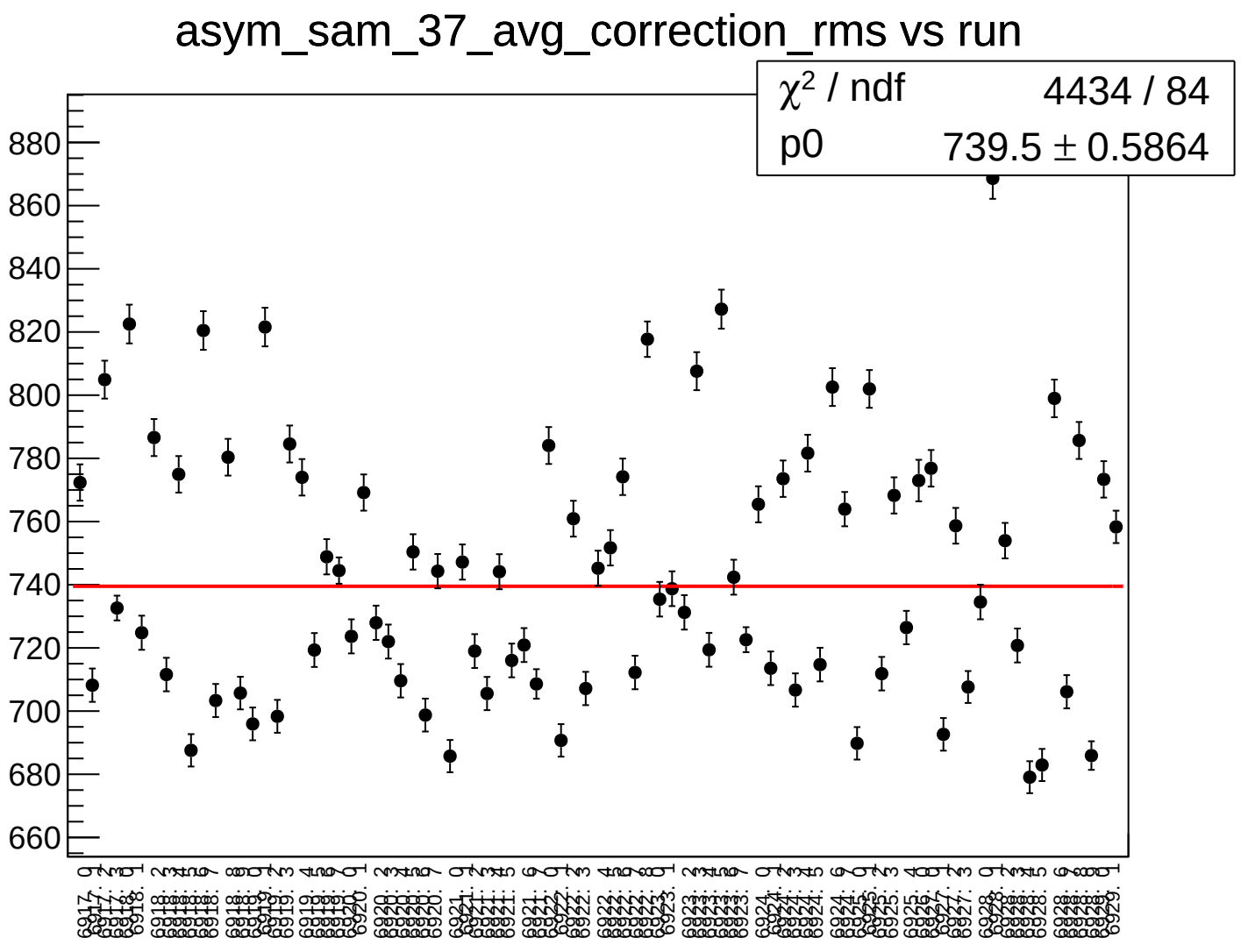

reg_asym_sam_37_avg_mean vs run
χ² / ndf 93.67 / 84
p0 −18.14 ± 71.69
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 1.011e+04
Std Dev 1.006e+04
2
1
0
−1
−2

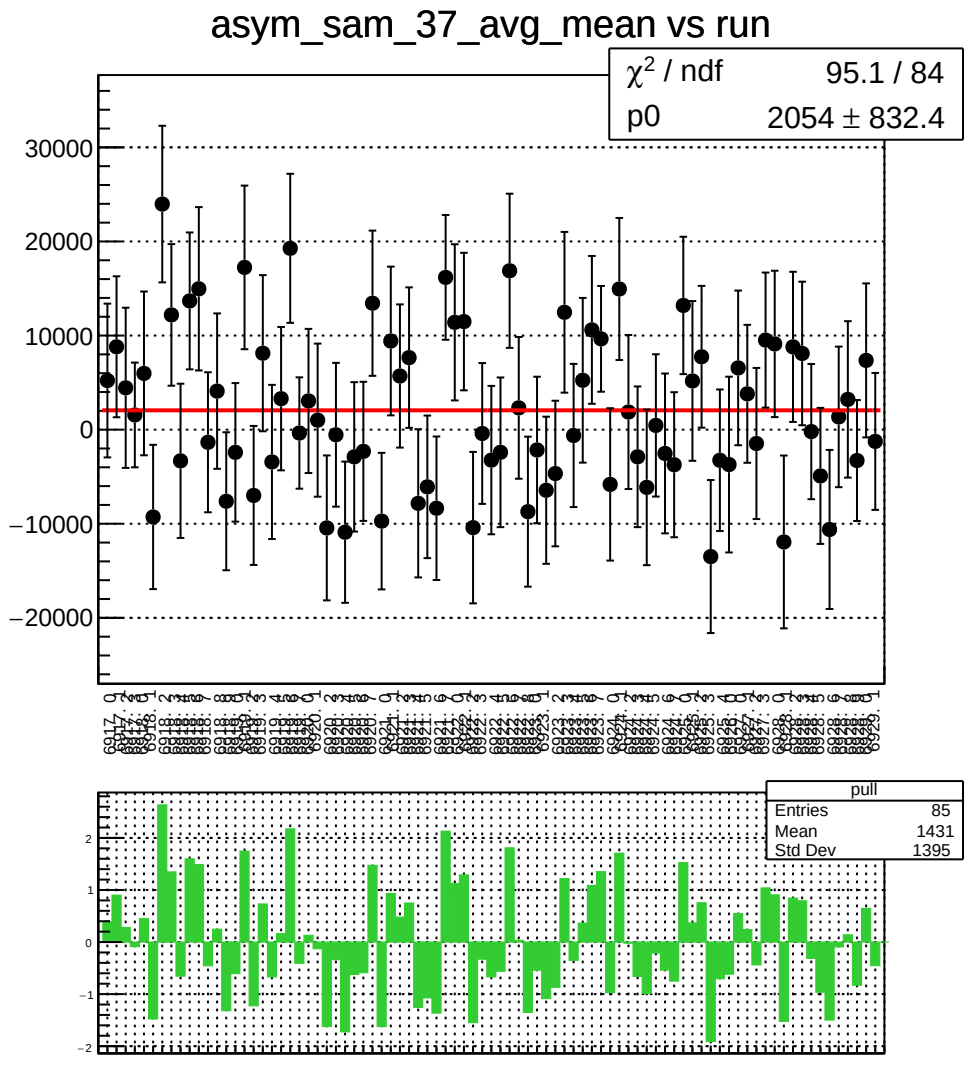

pull1D
Entries 85
Mean −0.0003176
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

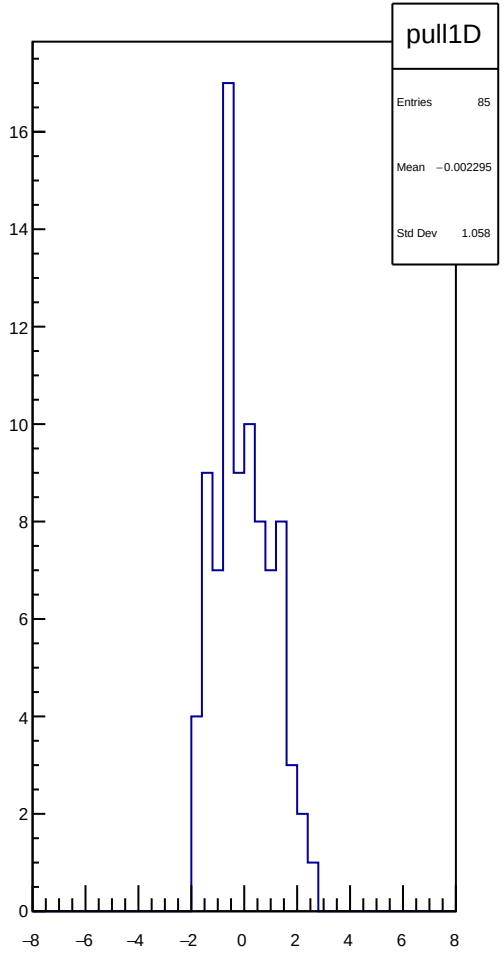

reg_asym_sam_37_avg_rms vs run
χ² / ndf 5843 / 84
p0 63.89 ± 0.05069
80
75
70
65
60
55

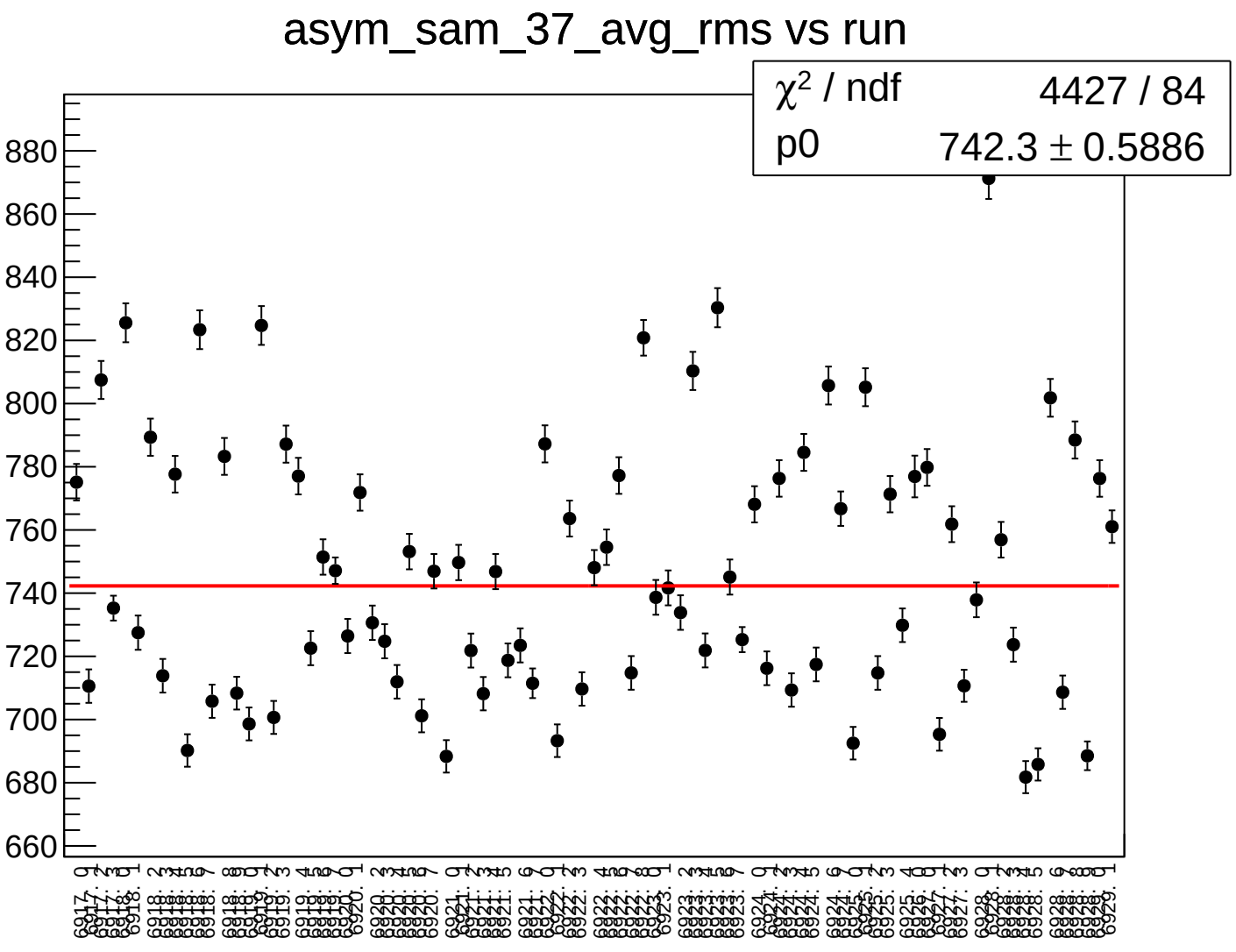

asym_sam_37_avg_correction_mean vs run
χ² / ndf 94.46 / 84
p0 −2077 ± 829.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1173
Std Dev 1138
2
1
0
−1
−2

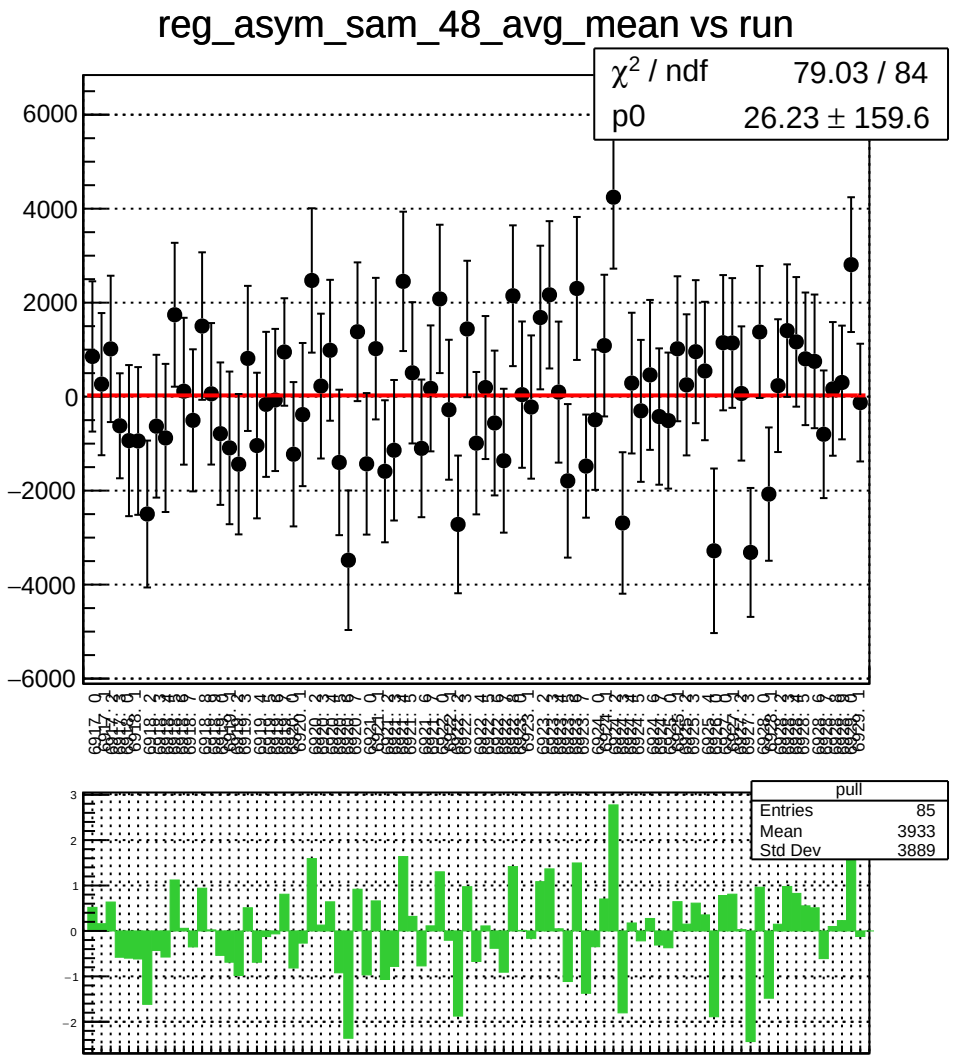

pull1D
Entries 85
Mean 0.002583
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

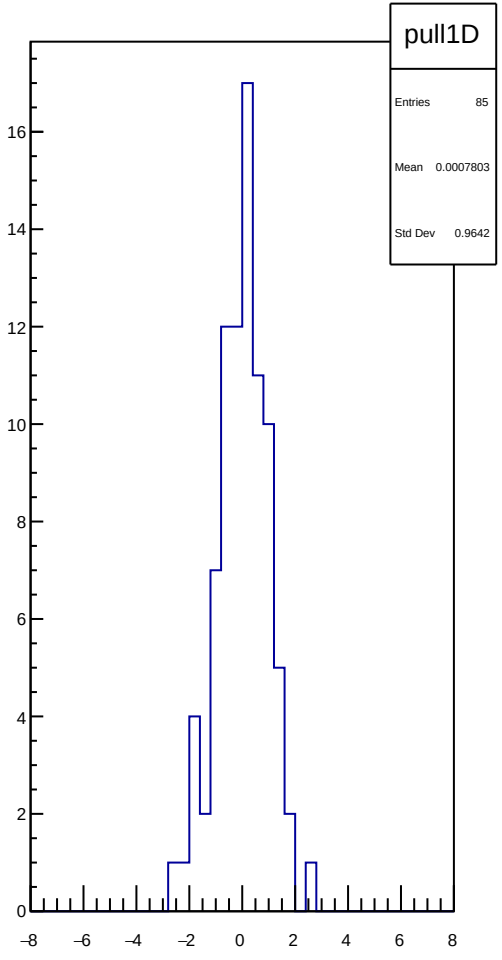

asym_sam_37_avg_correction_rms vs run
χ² / ndf 4434 / 84
p0 739.5 ± 0.5864
880
860
840
820
800
780
760
740
720
700
680
660

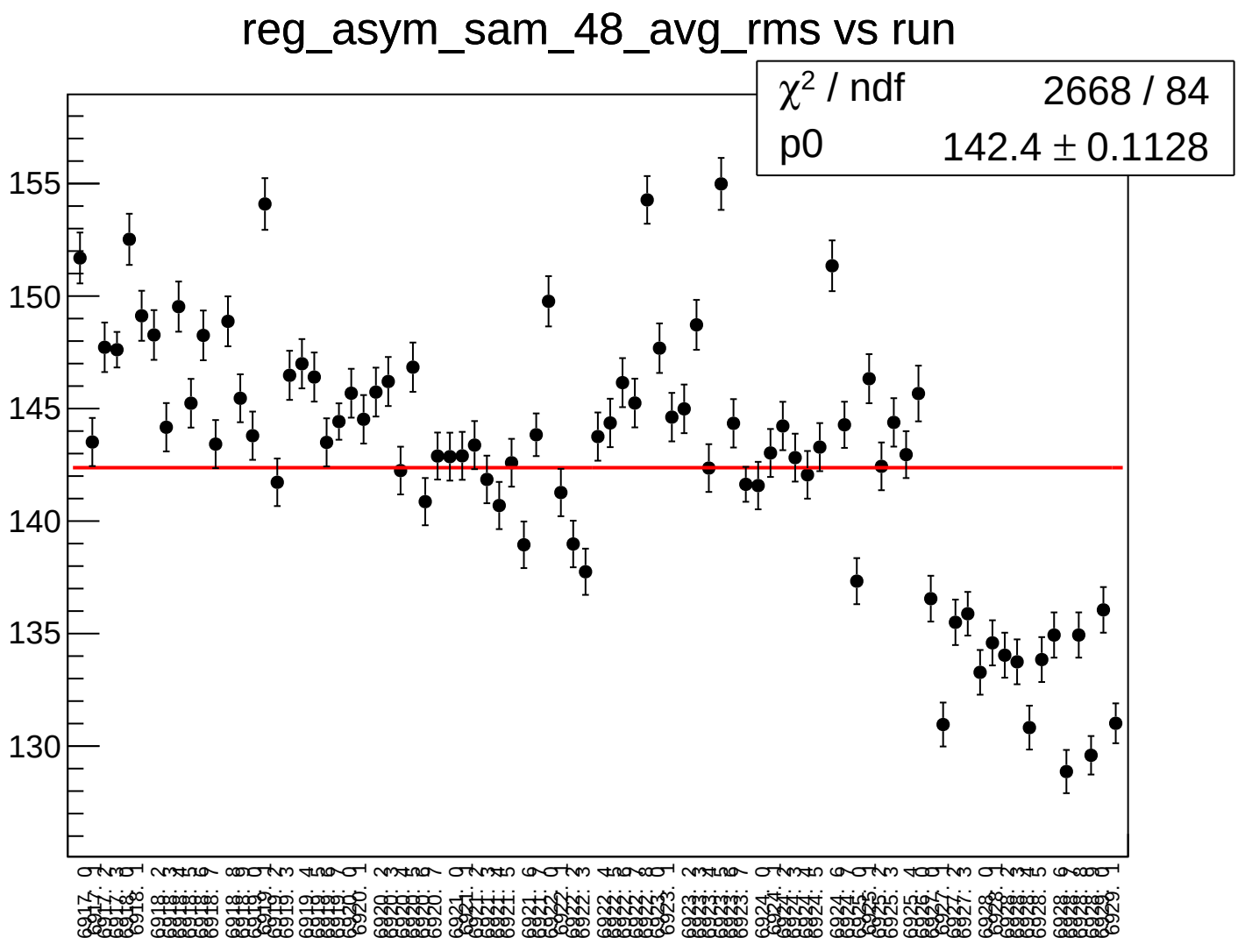

asym_sam_37_avg_mean vs run
χ² / ndf 95.1 / 84
p0 2054 ± 832.4
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 1431
Std Dev 1395
2
1
0
−1
−2

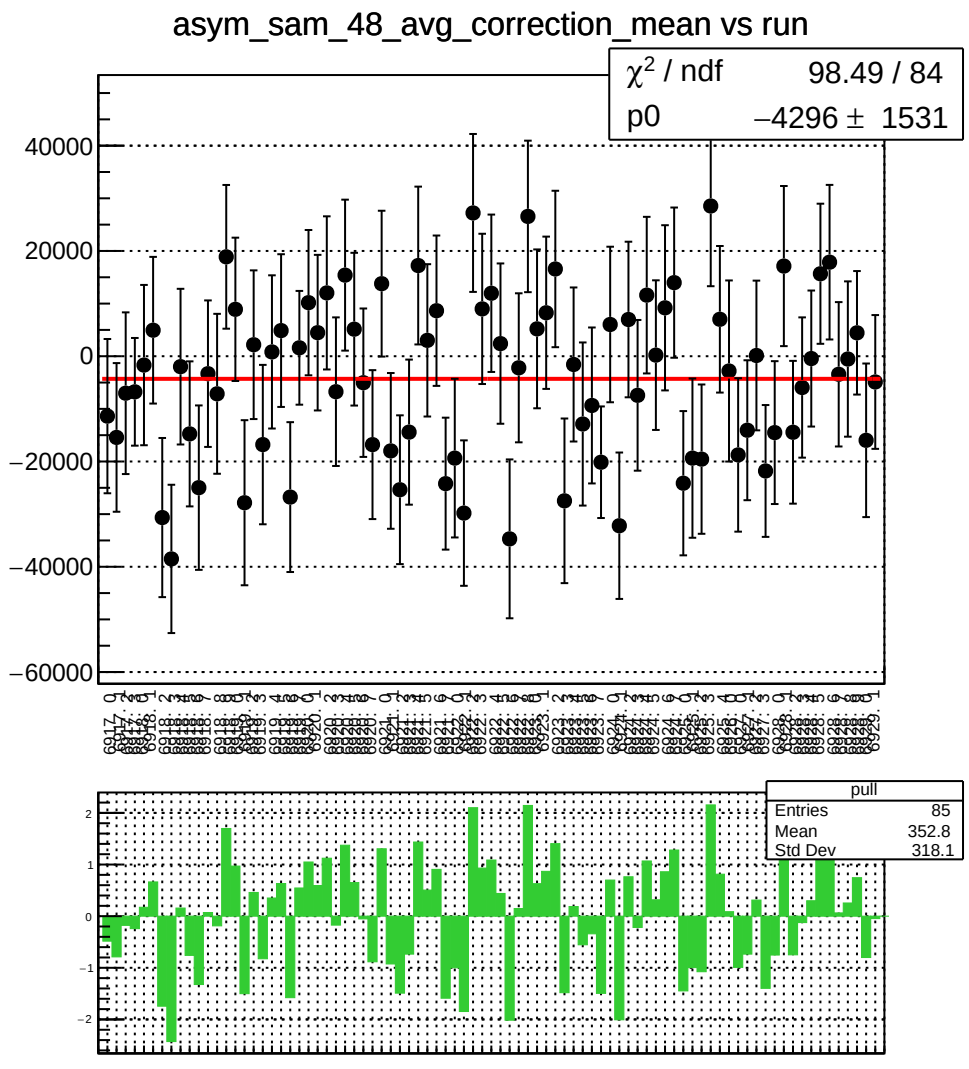

pull1D
Entries 85
Mean −0.002295
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

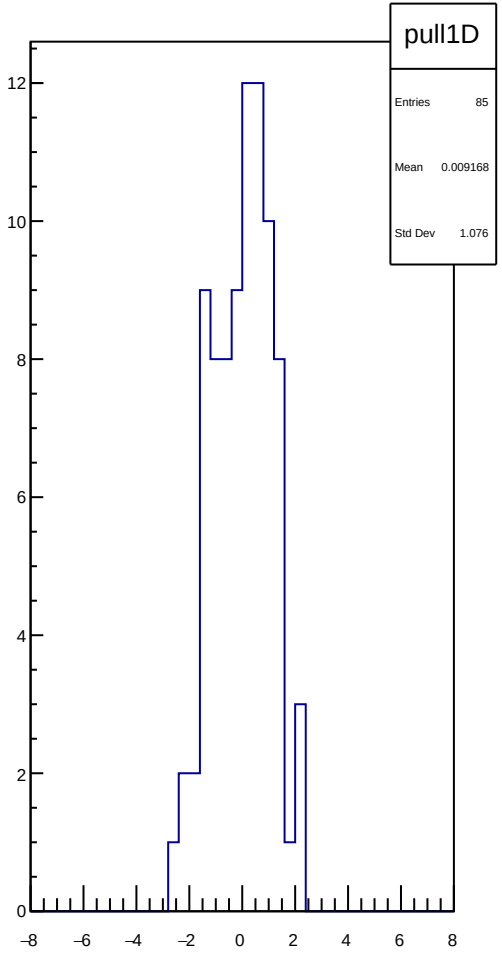

asym_sam_37_avg_rms vs run
χ² / ndf 4427 / 84
p0 742.3 ± 0.5886
880
860
840
820
800
780
760
740
720
700
680
660

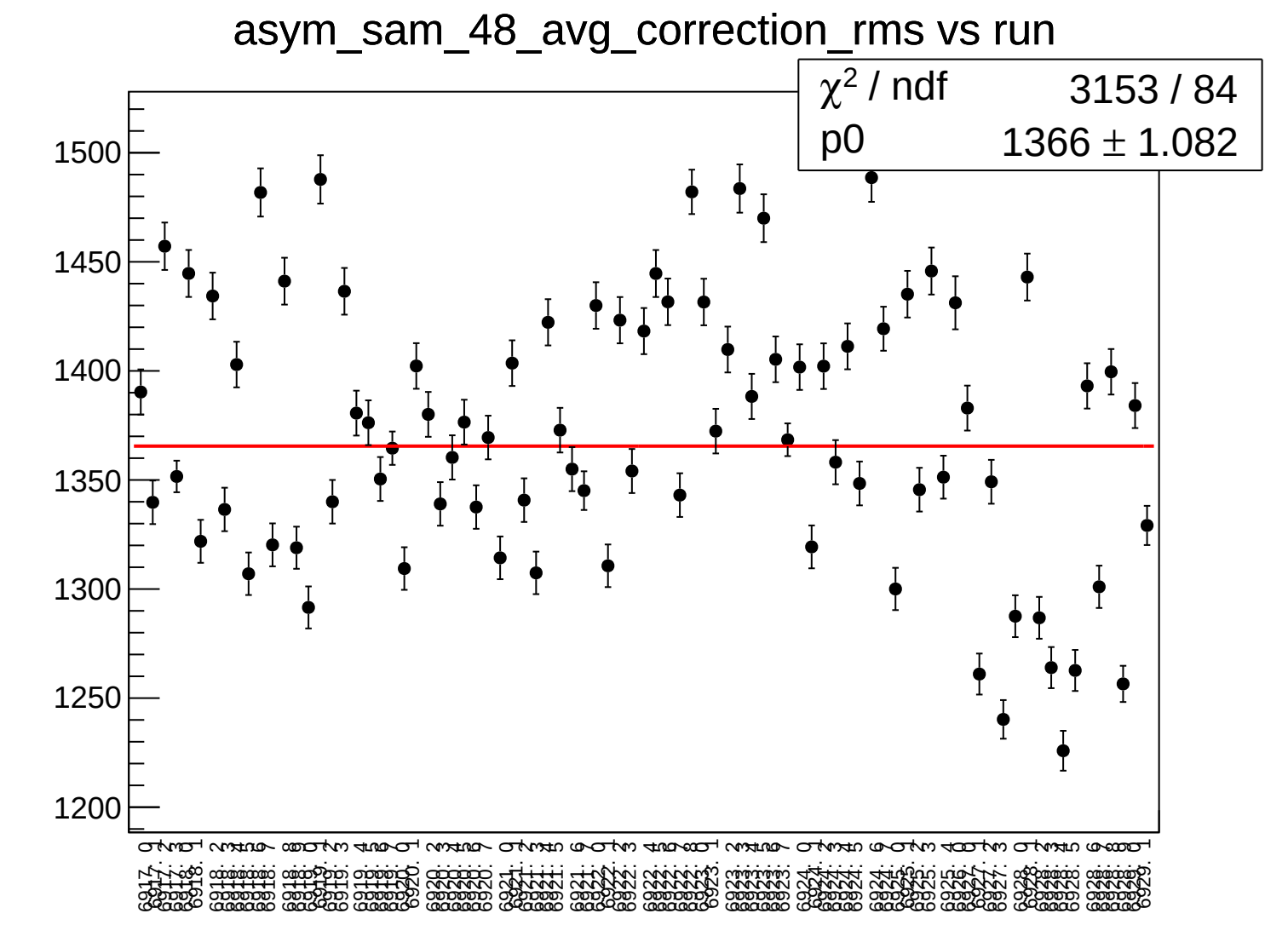

reg_asym_sam_48_avg_mean vs run
χ² / ndf 79.03 / 84
p0 26.23 ± 159.6
pull
Entries 85
Mean 3933
Std Dev 3889

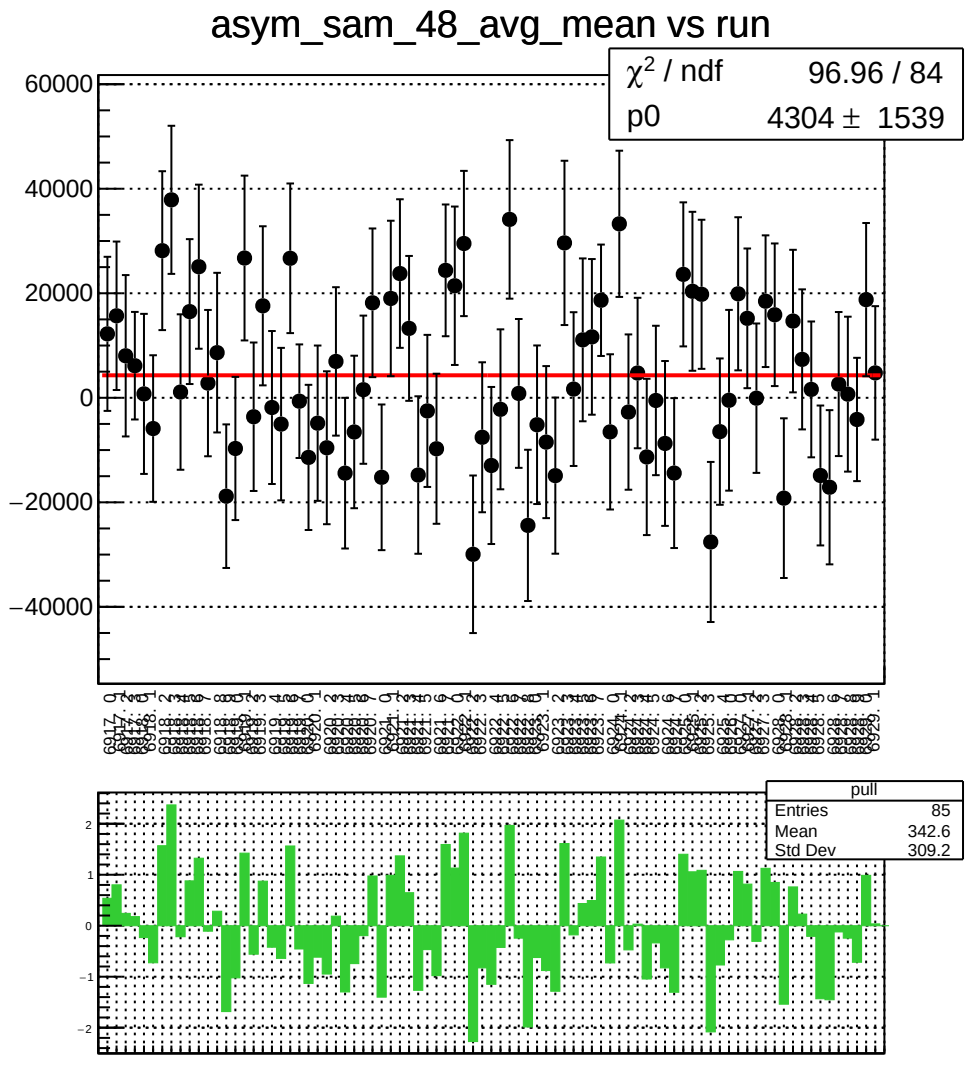

pull1D
Entries 85
Mean 0.0007803
Std Dev 0.9642

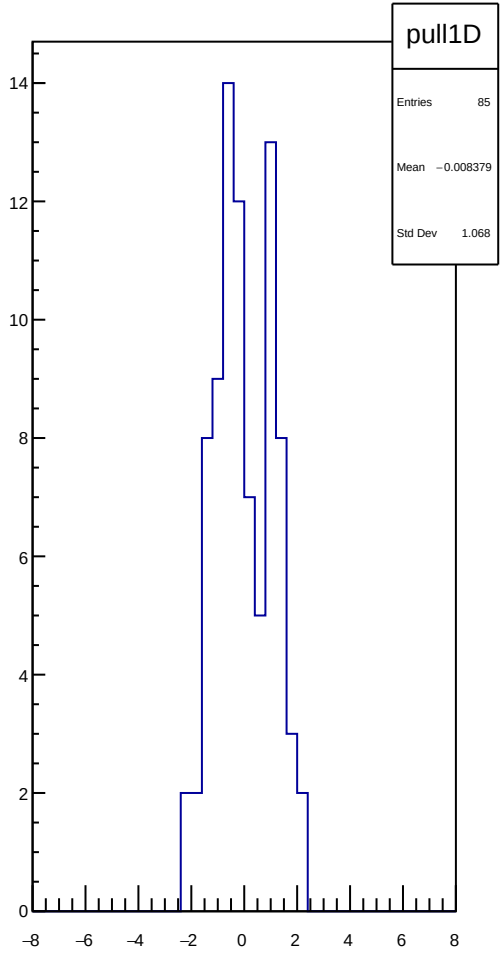

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 2668 / 84
p0 142.4 ± 0.1128
155
150
145
140
135
130

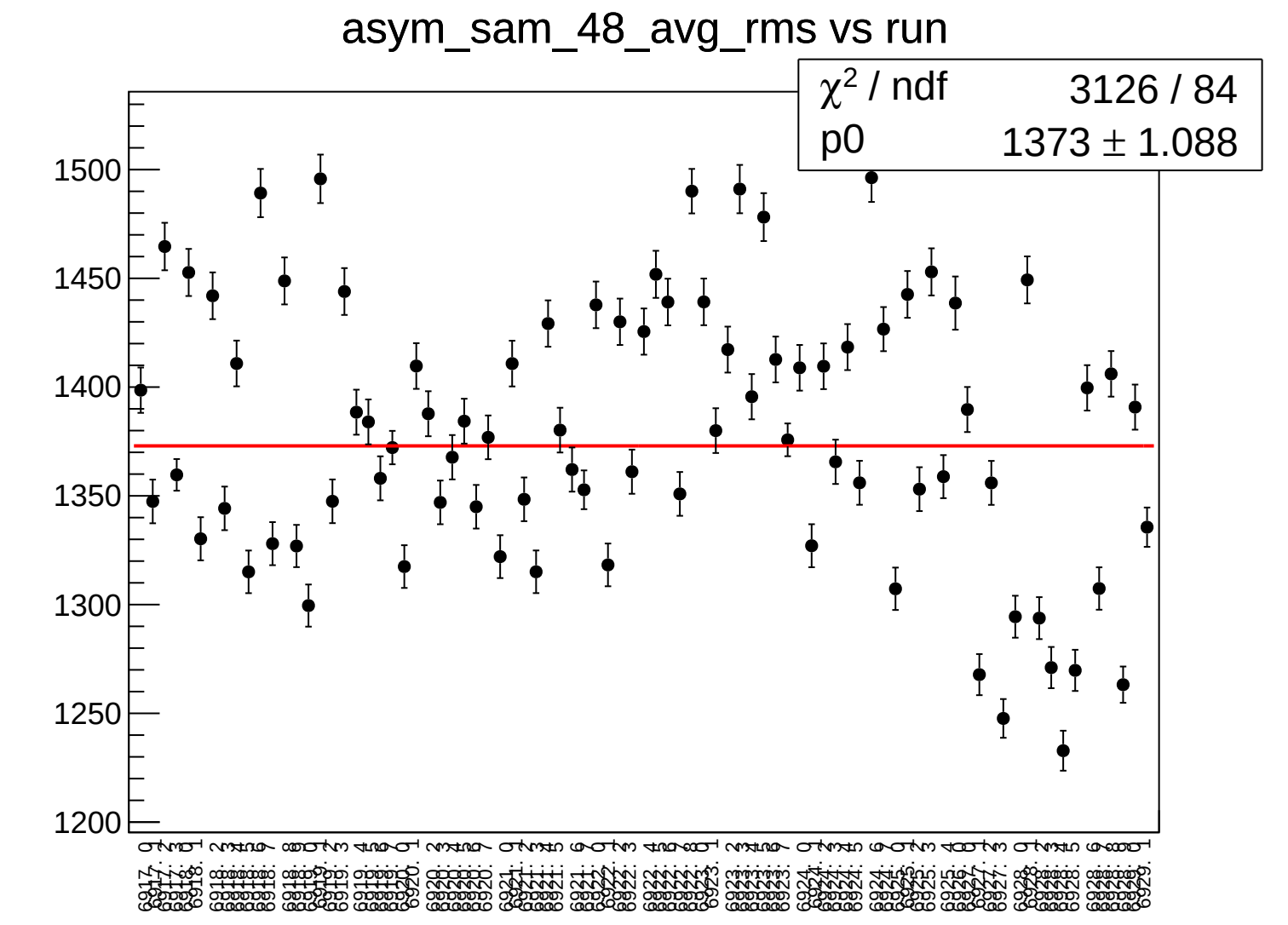

asym_sam_48_avg_correction_mean vs run
χ² / ndf 98.49 / 84
p0 −4296 ± 1531
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 352.8
Std Dev 318.1
2
1
0
−1
−2

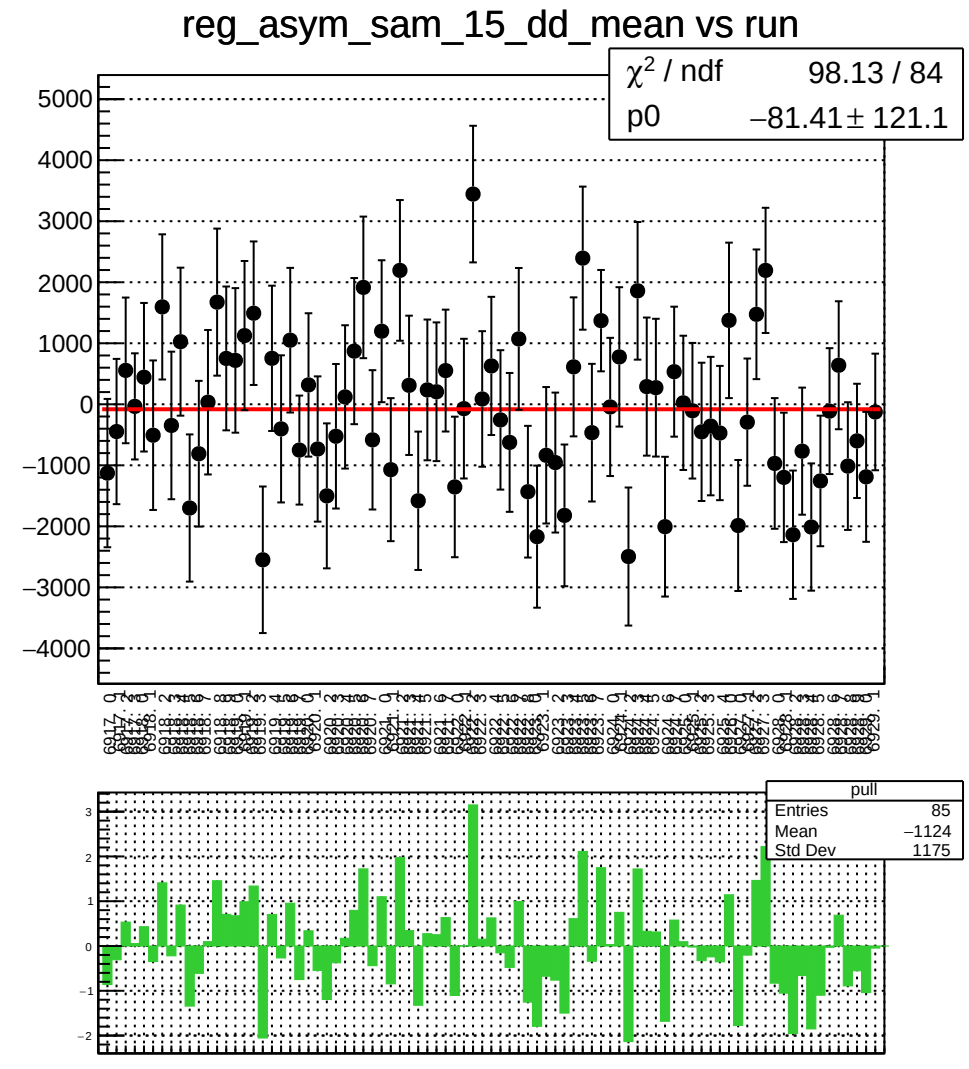

pull1D
Entries 85
Mean 0.009168
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

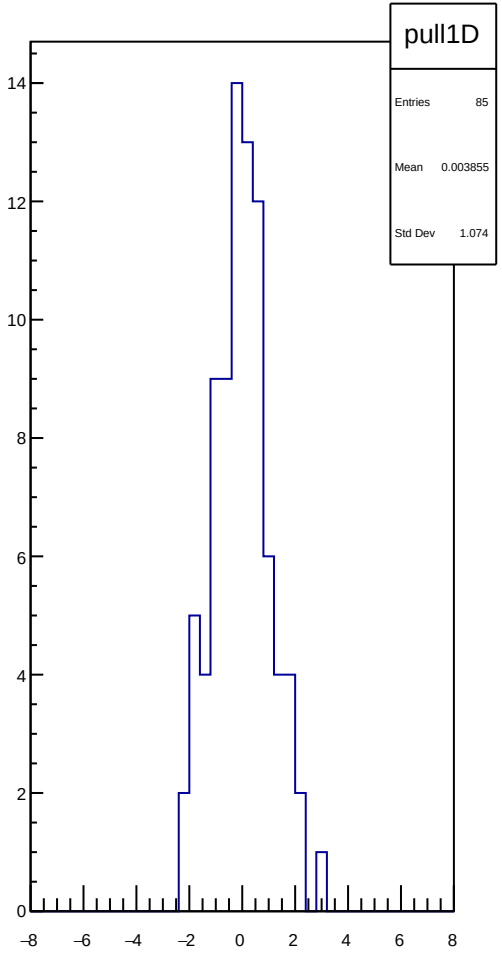

asym_sam_48_avg_correction_rms vs run
χ² / ndf 3153 / 84
p0 1366 ± 1.082
1500
1450
1400
1350
1300
1250
1200

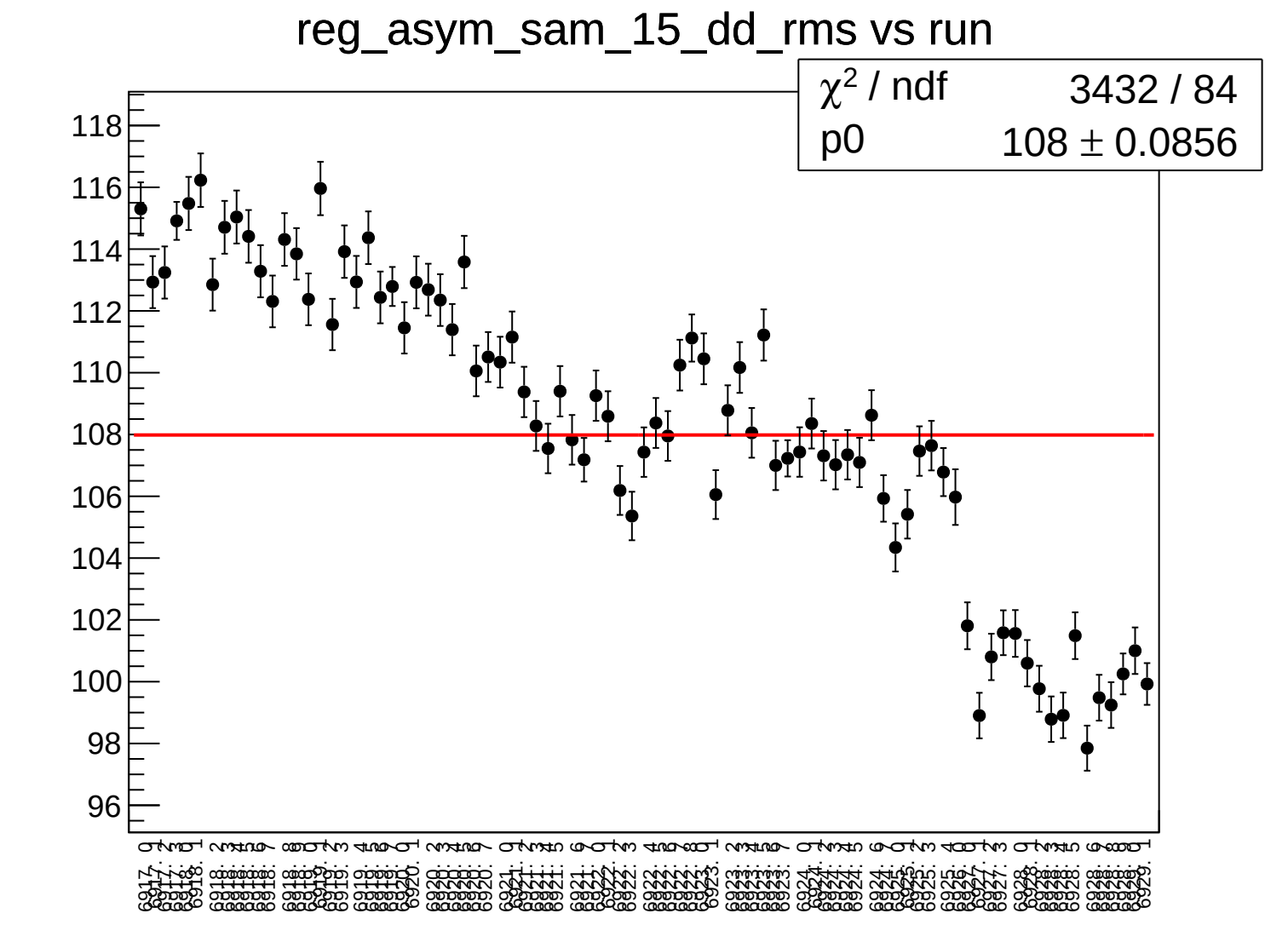

asym_sam_48_avg_mean vs run
χ² / ndf 96.96 / 84
p0 4304 ± 1539
pull
Entries 85
Mean 342.6
Std Dev 309.2

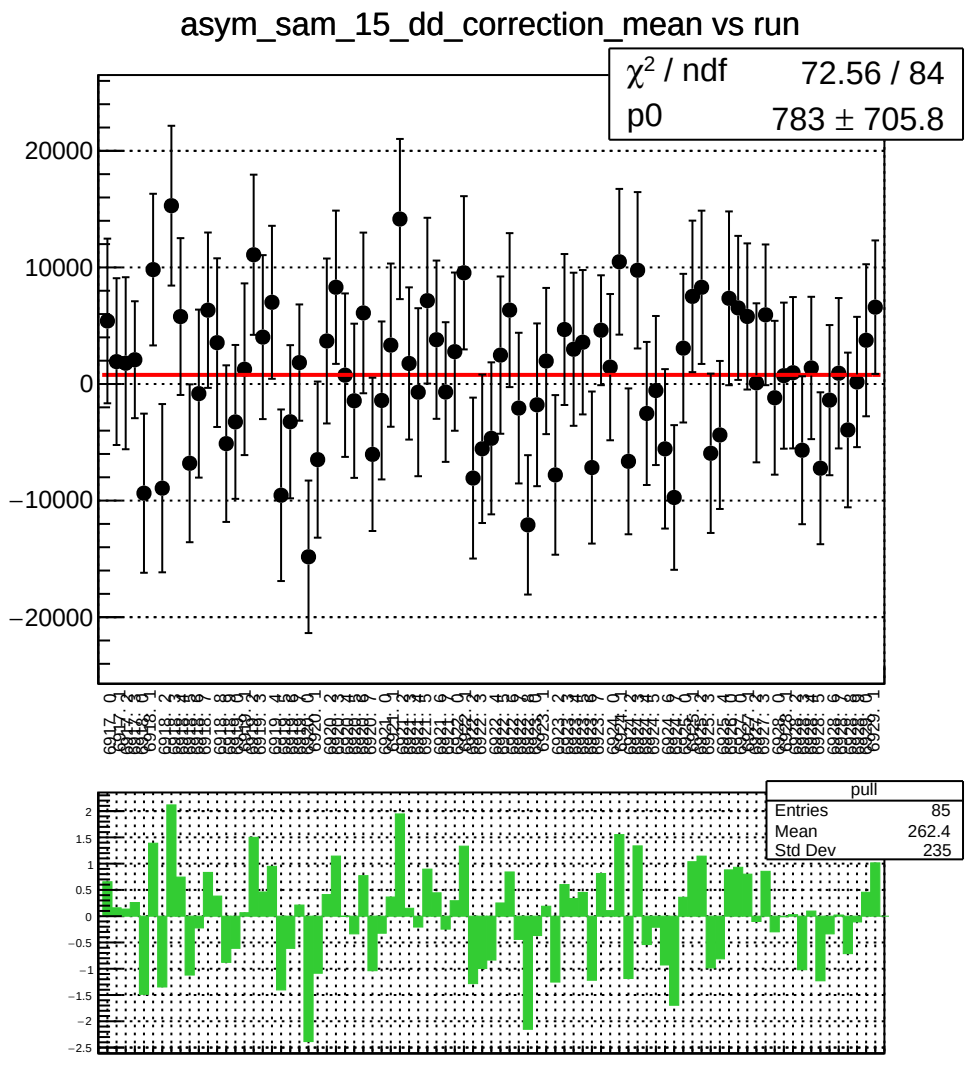

pull1D
Entries 85
Mean −0.008379
Std Dev 1.068

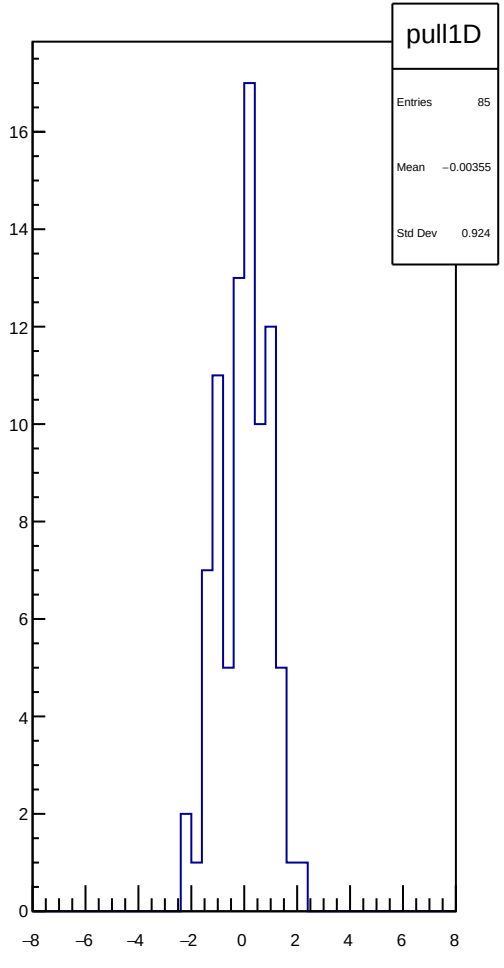

asym_sam_48_avg_rms vs run
χ^2 / ndf 3126 / 84
p0 1373 ± 1.088
1500
1450
1400
1350
1300
1250
1200

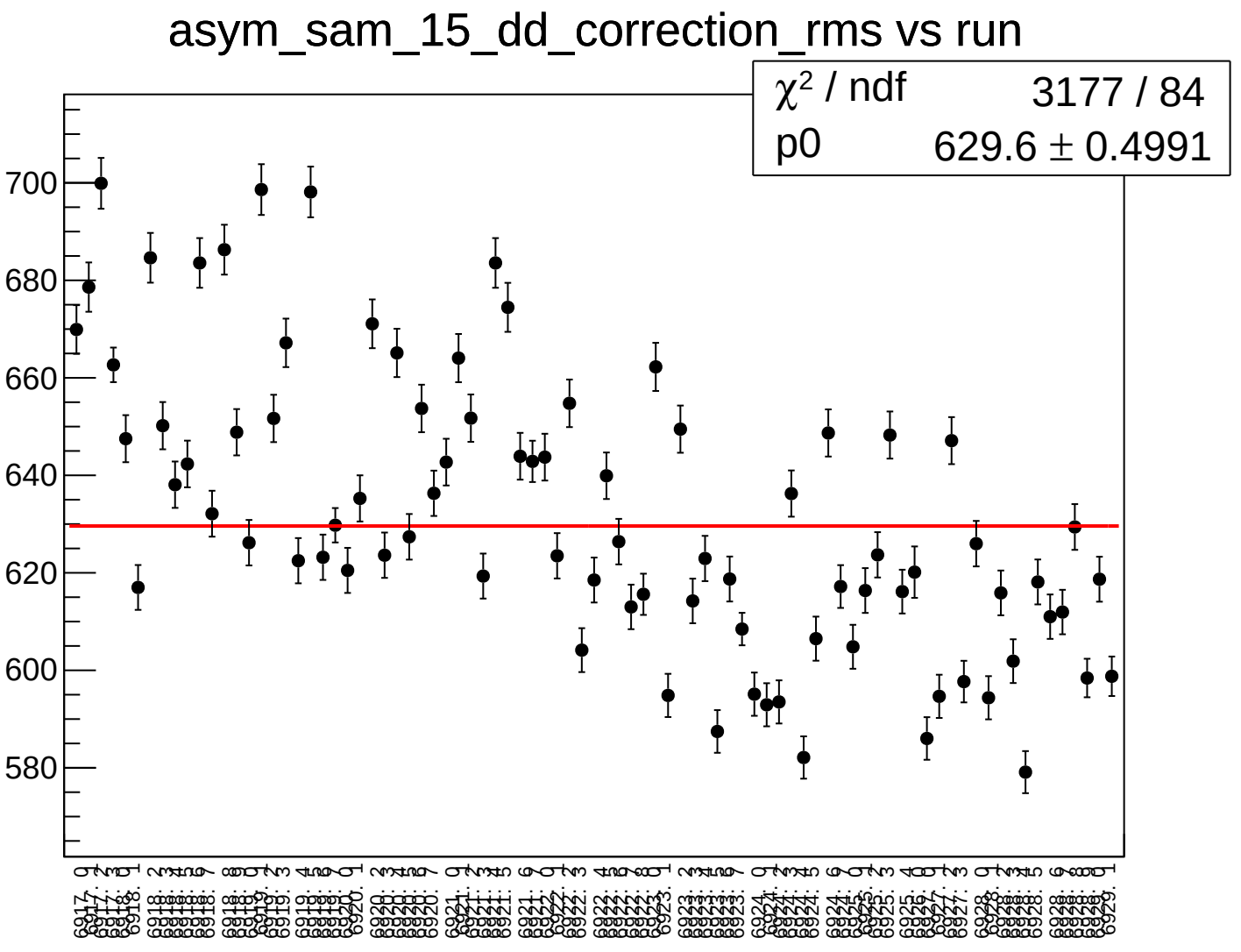

reg_asym_sam_15_dd_mean vs run
χ² / ndf 98.13 / 84
p0 −81.41 ± 121.1
pull
Entries 85
Mean −1124
Std Dev 1175

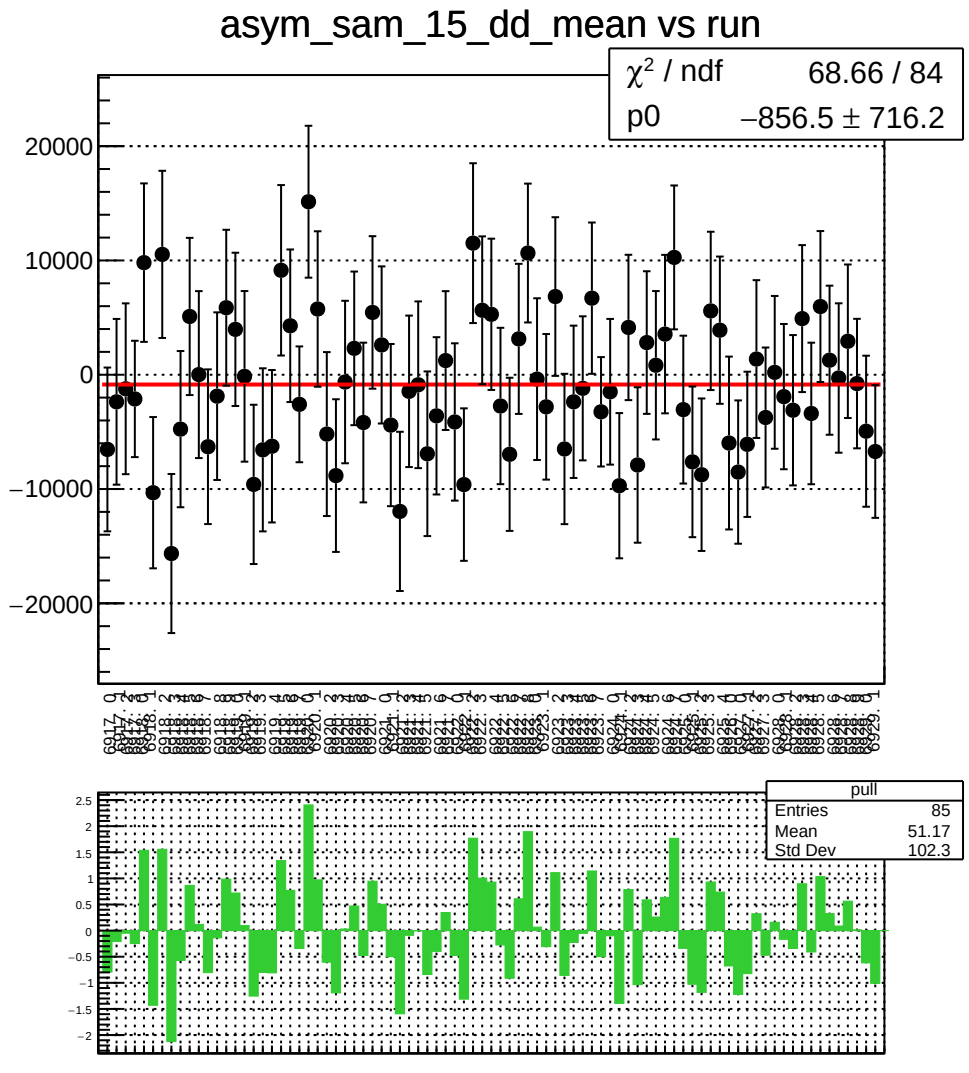

pull1D
Entries 85
Mean 0.003855
Std Dev 1.074

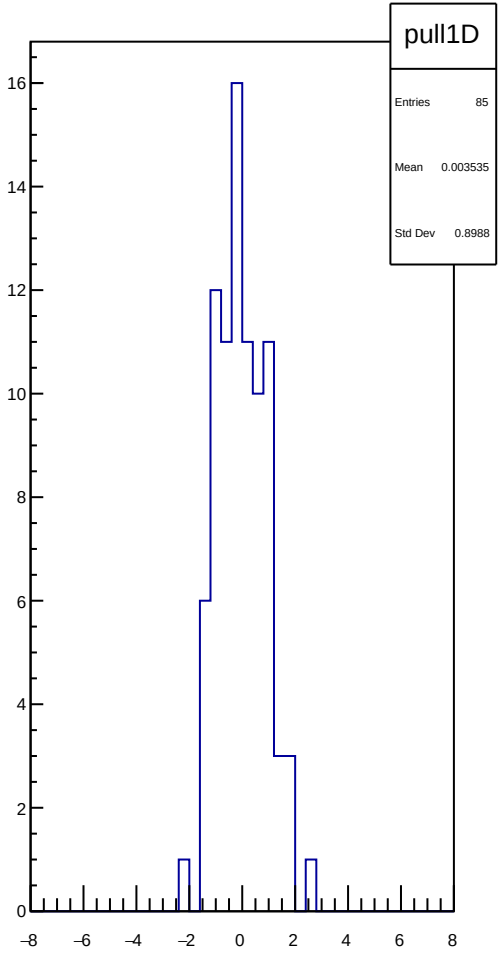

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 3432 / 84
p0 108 ± 0.0856
118
116
114
112
110
108
106
104
102
100
98
96

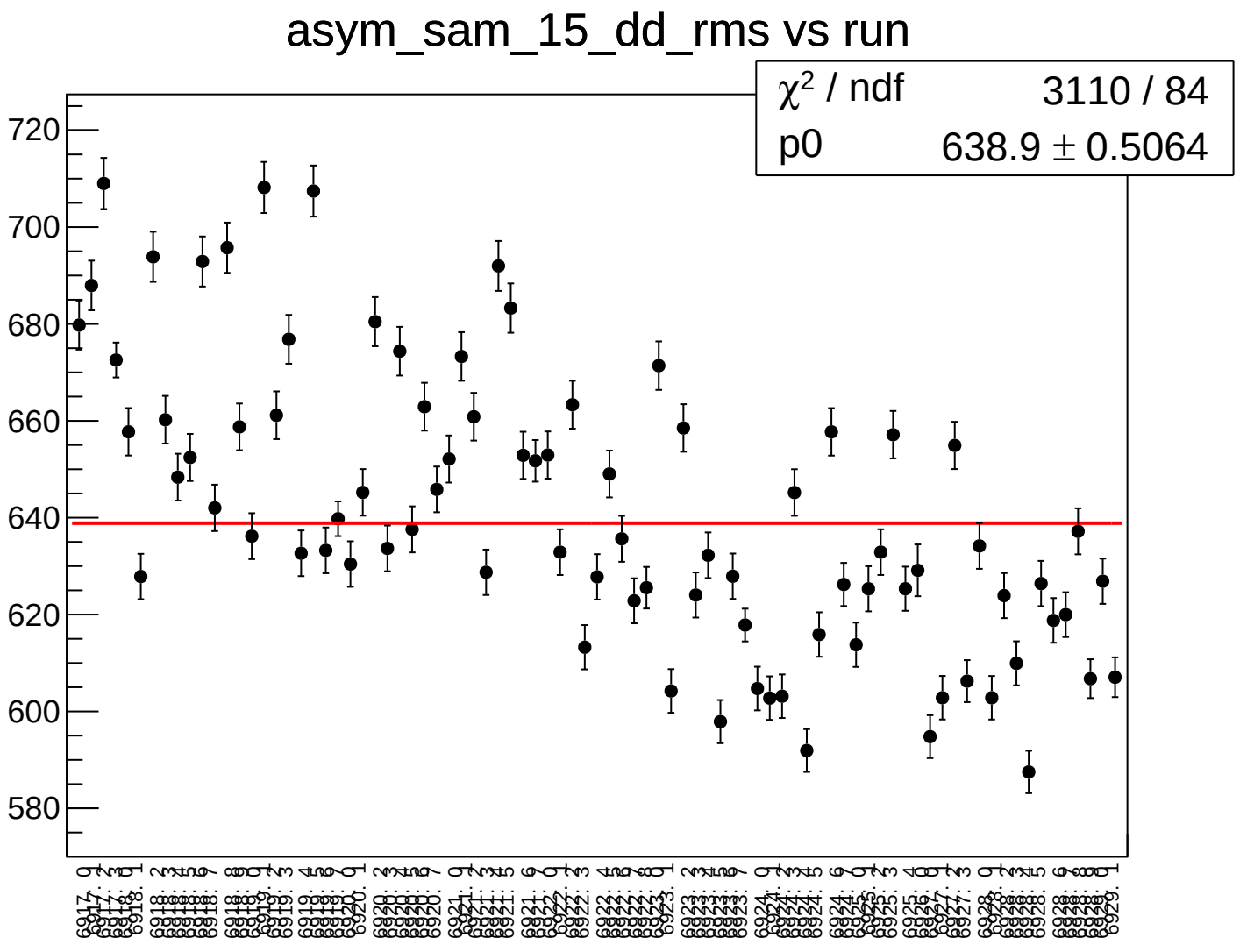

asym_sam_15_dd_correction_mean vs run
χ² / ndf 72.56 / 84
p0 783 ± 705.8
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 262.4
Std Dev 235
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

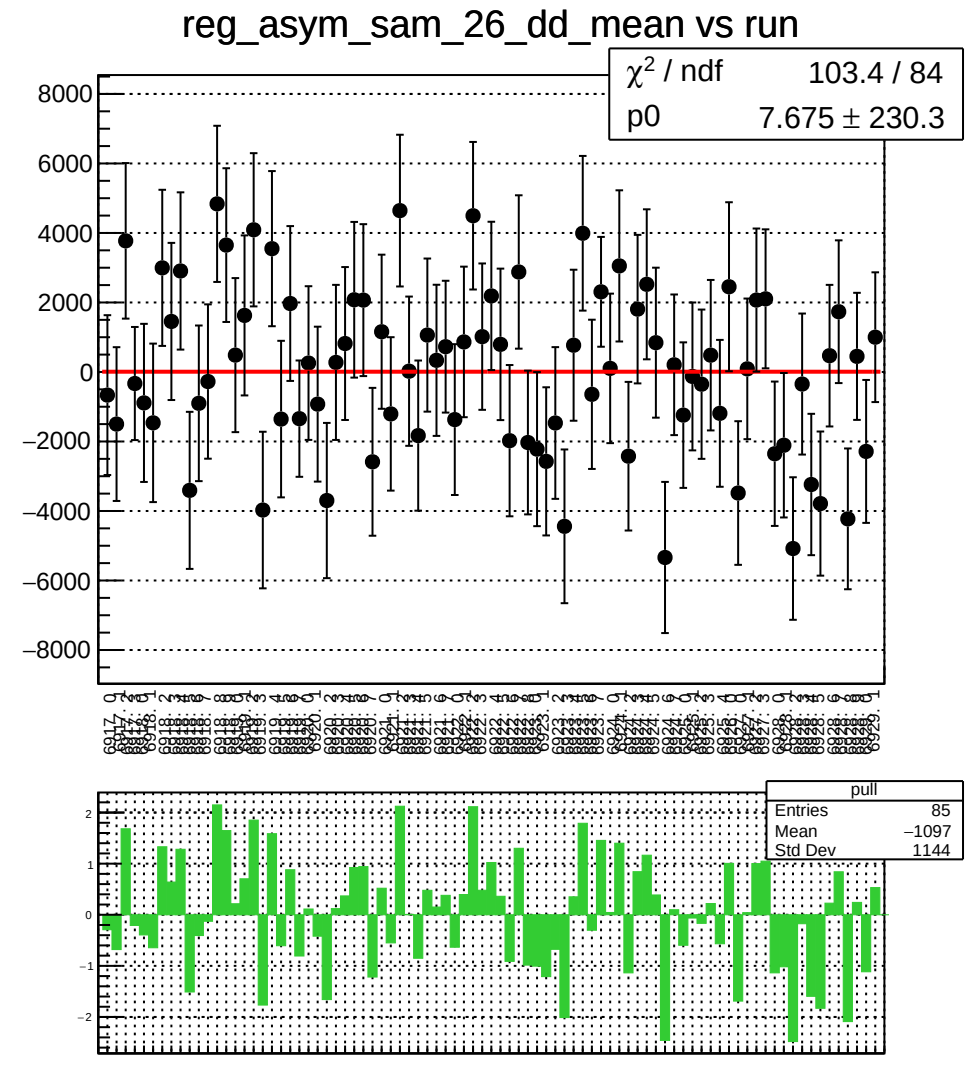

pull1D
Entries 85
Mean −0.00355
Std Dev 0.924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

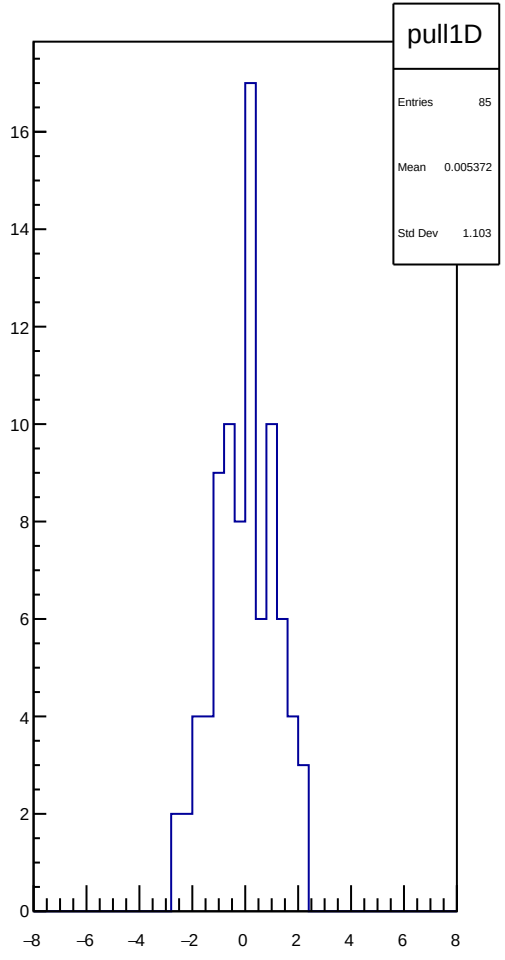

asym_sam_15_dd_correction_rms vs run
χ² / ndf 3177 / 84
p0 629.6 ± 0.4991
700
680
660
640
620
600
580

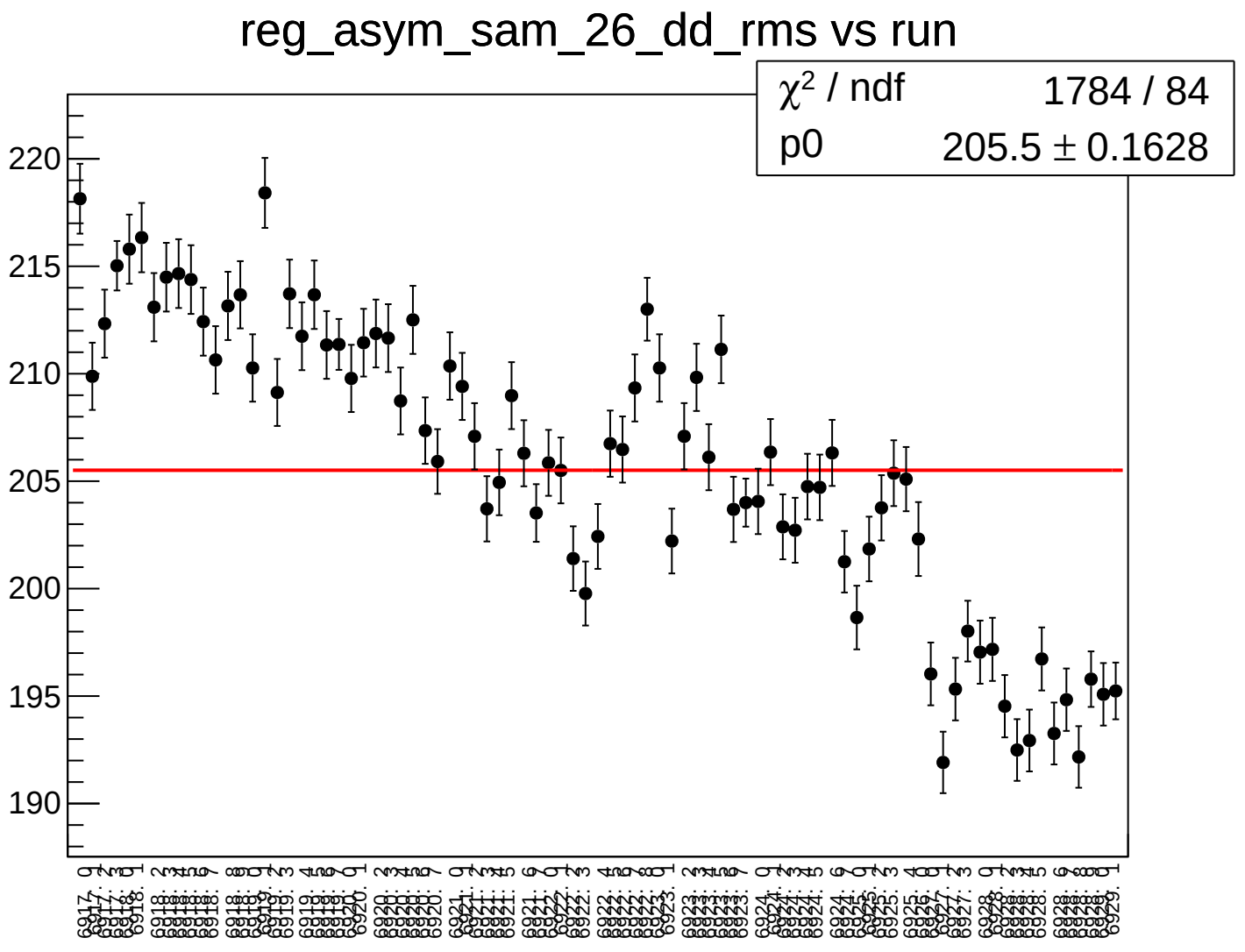

asym_sam_15_dd_mean vs run
χ² / ndf 68.66 / 84
p0 −856.5 ± 716.2
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 51.17
Std Dev 102.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

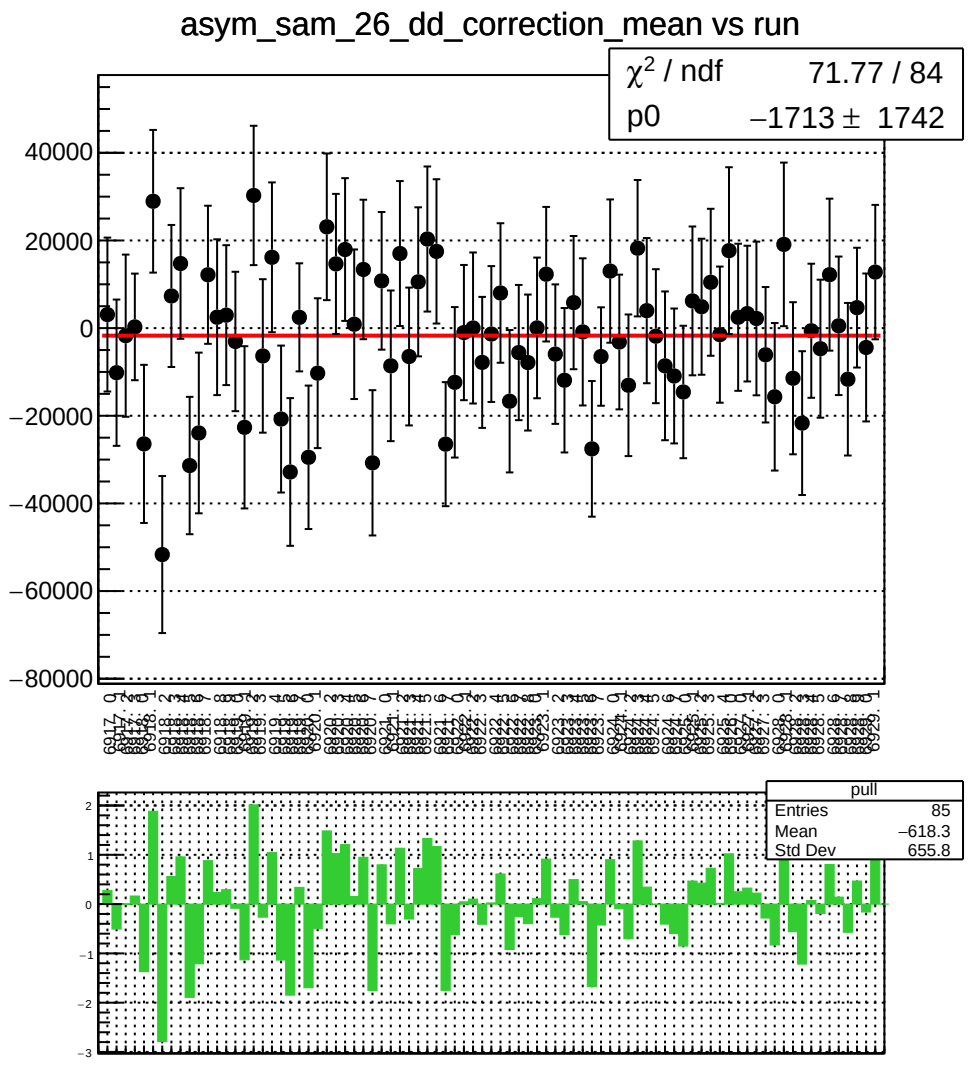

pull1D
Entries 85
Mean 0.003535
Std Dev 0.8988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

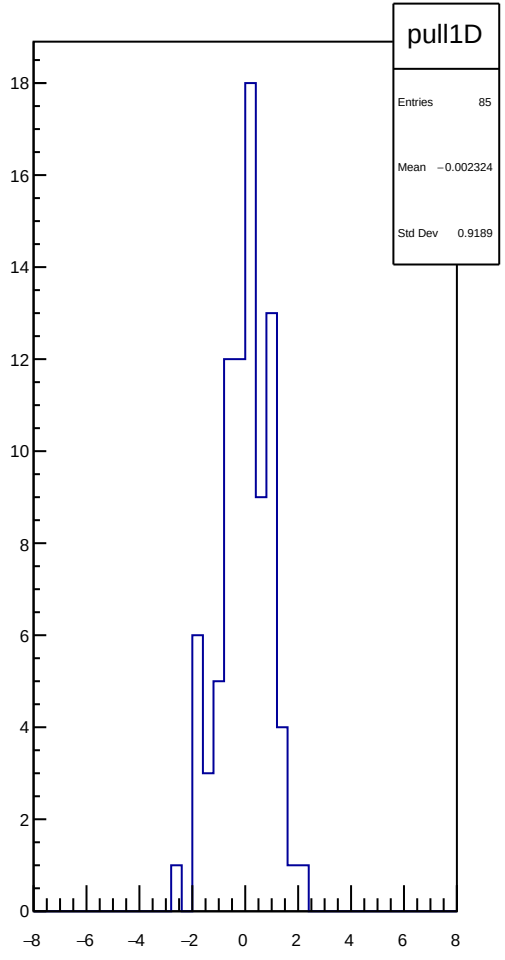

asym_sam_15_dd_rms vs run
χ^2 / ndf 3110 / 84
p0 638.9 ± 0.5064
720
700
680
660
640
620
600
580

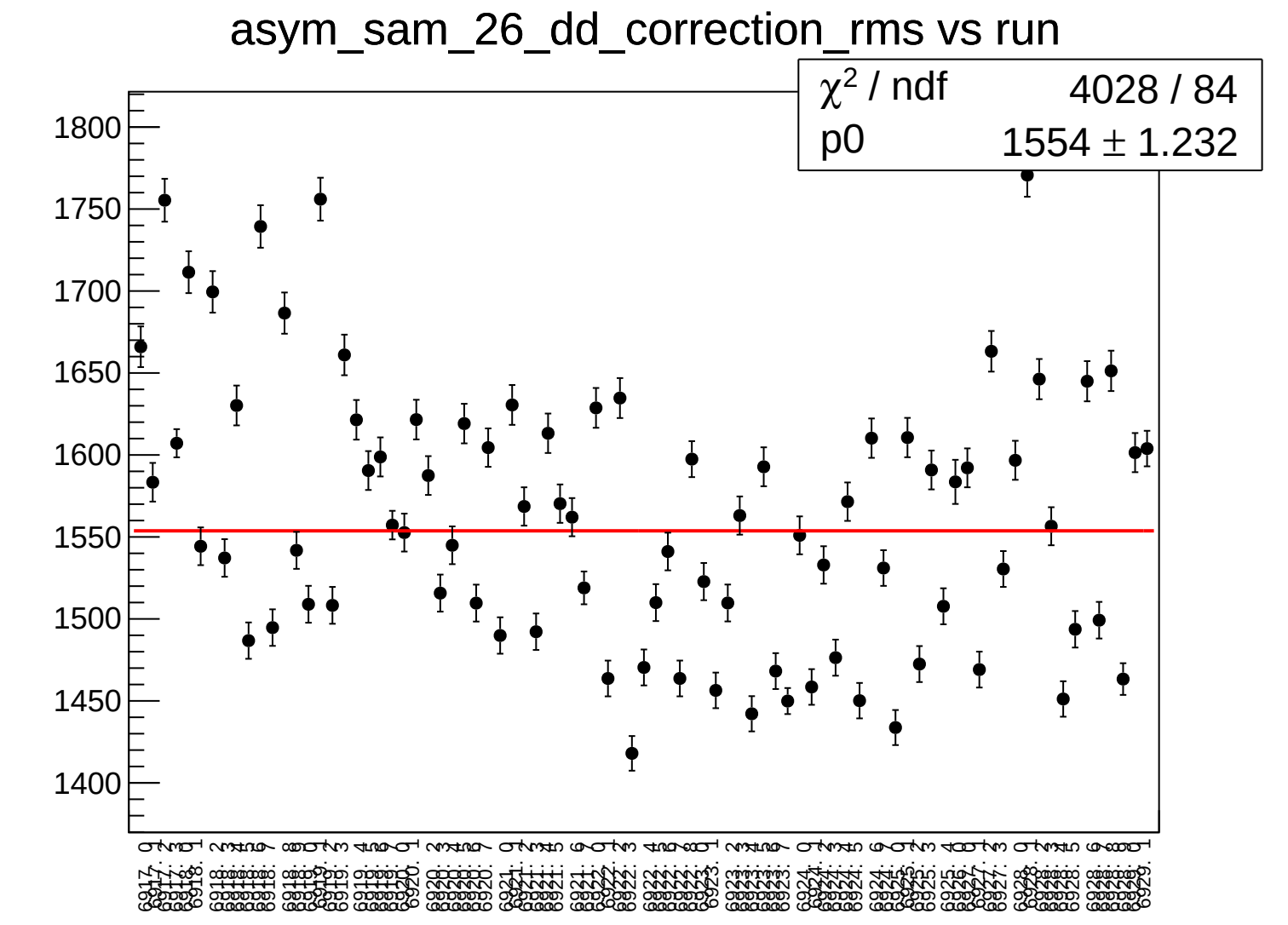

reg_asym_sam_26_dd_mean vs run
χ² / ndf 103.4 / 84
p0 7.675 ± 230.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 85
Mean −1097
Std Dev 1144
2
1
0
−1
−2

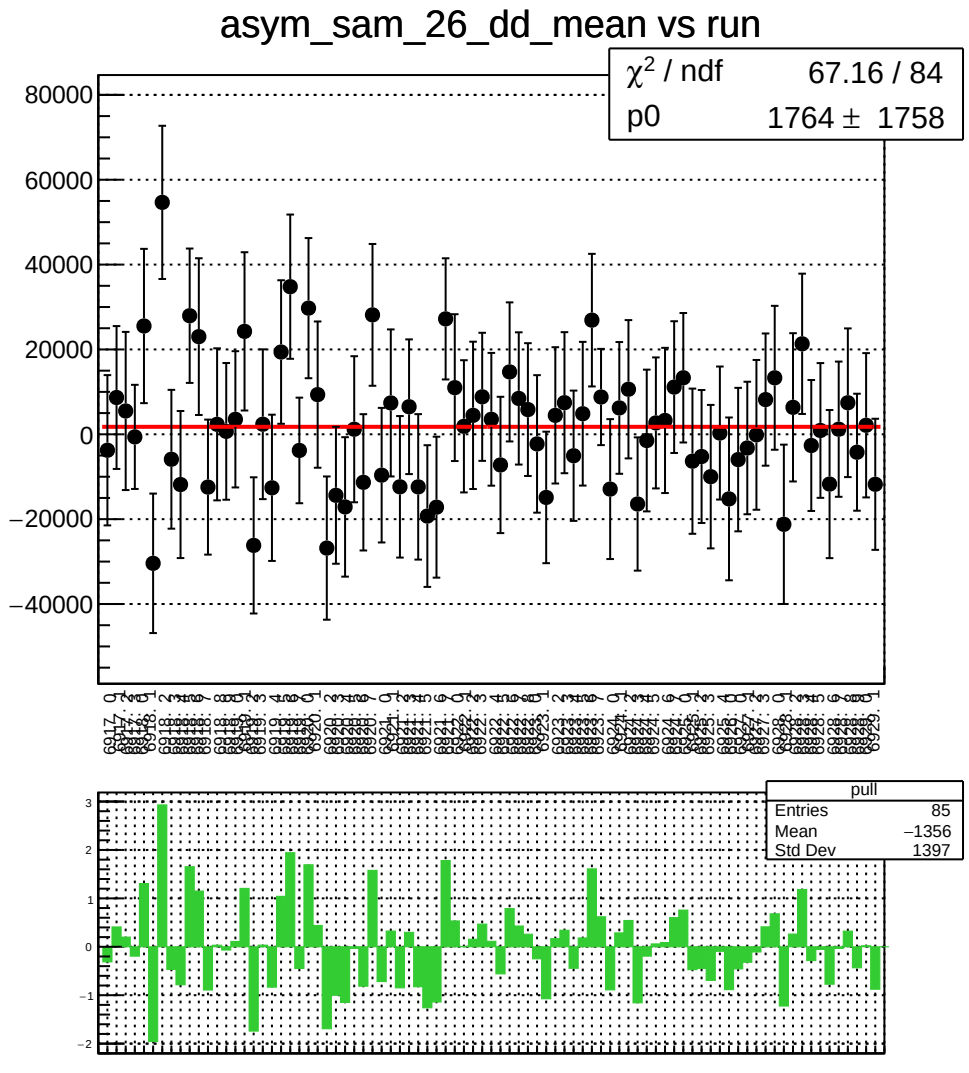

pull1D
Entries 85
Mean 0.005372
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

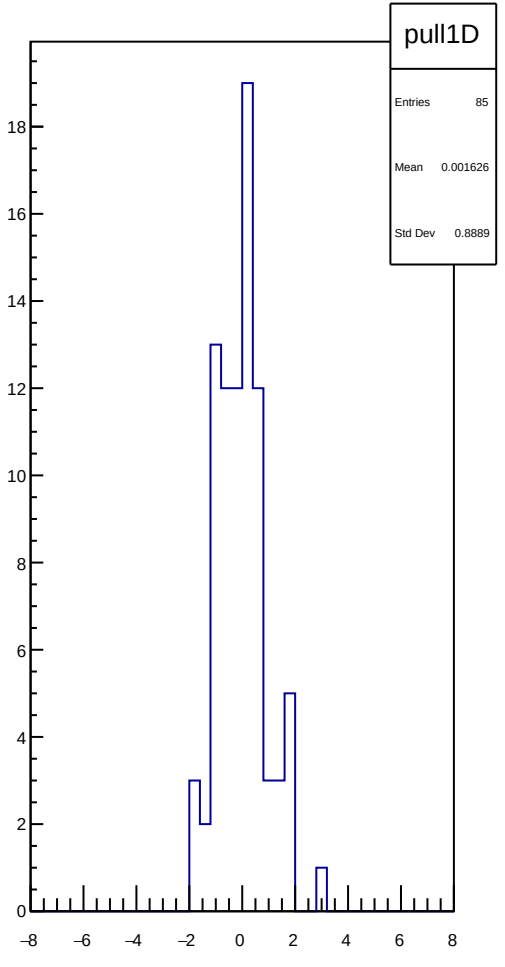

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1784 / 84
p0 205.5 ± 0.1628
220
215
210
205
200
195
190

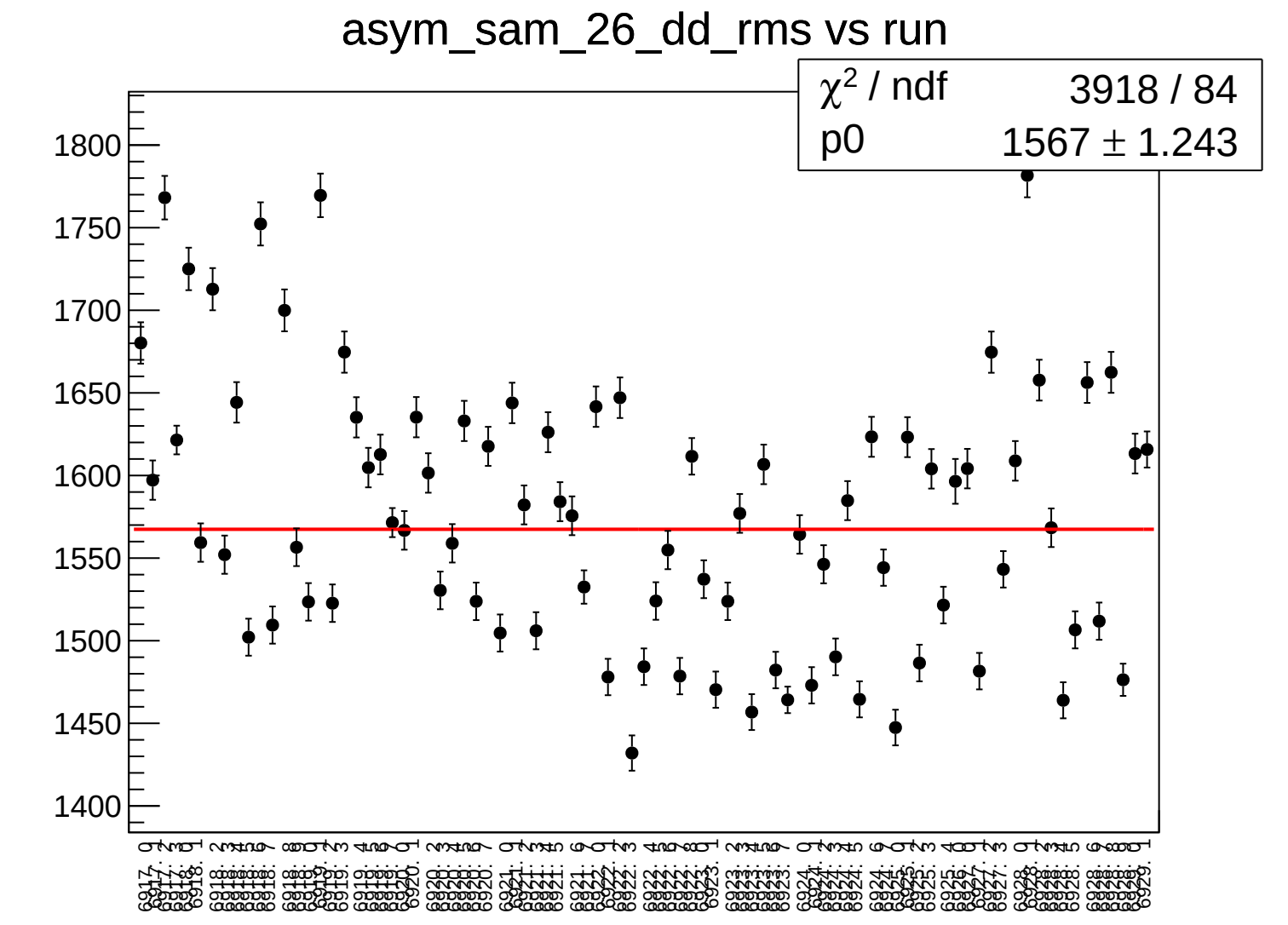

asym_sam_26_dd_correction_mean vs run
χ² / ndf 71.77 / 84
p0 −1713 ± 1742
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −618.3
Std Dev 655.8
2
1
0
−1
−2
−3

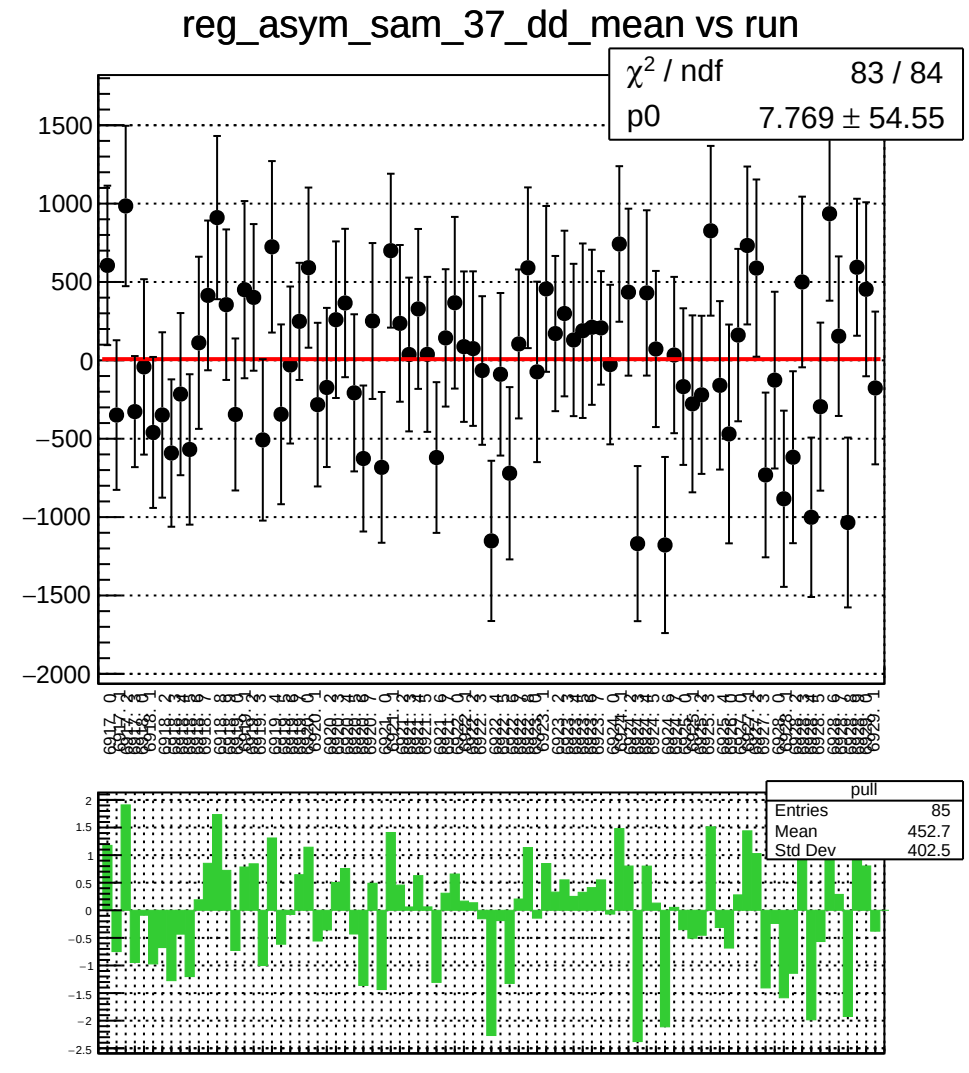

pull1D
Entries 85
Mean −0.002324
Std Dev 0.9189
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

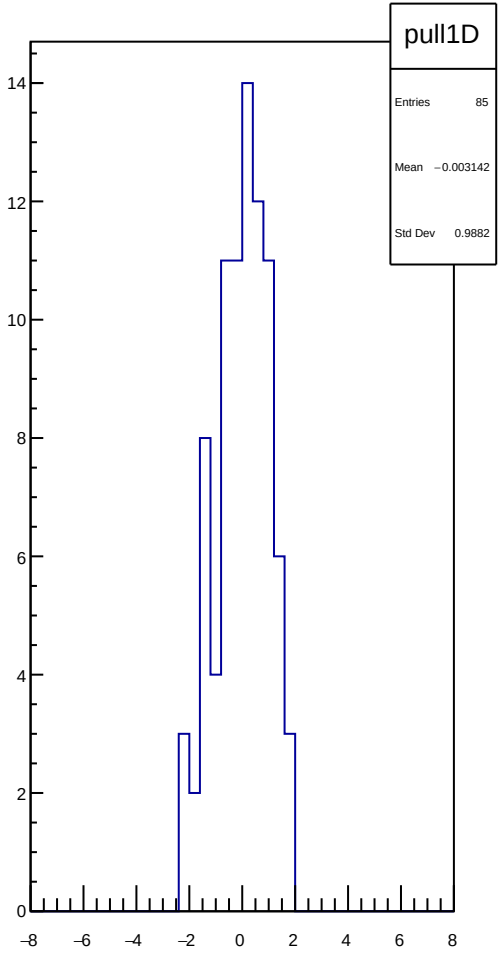

asym_sam_26_dd_correction_rms vs run
χ² / ndf 4028 / 84
p0 1554 ± 1.232
1800
1750
1700
1650
1600
1550
1500
1450
1400

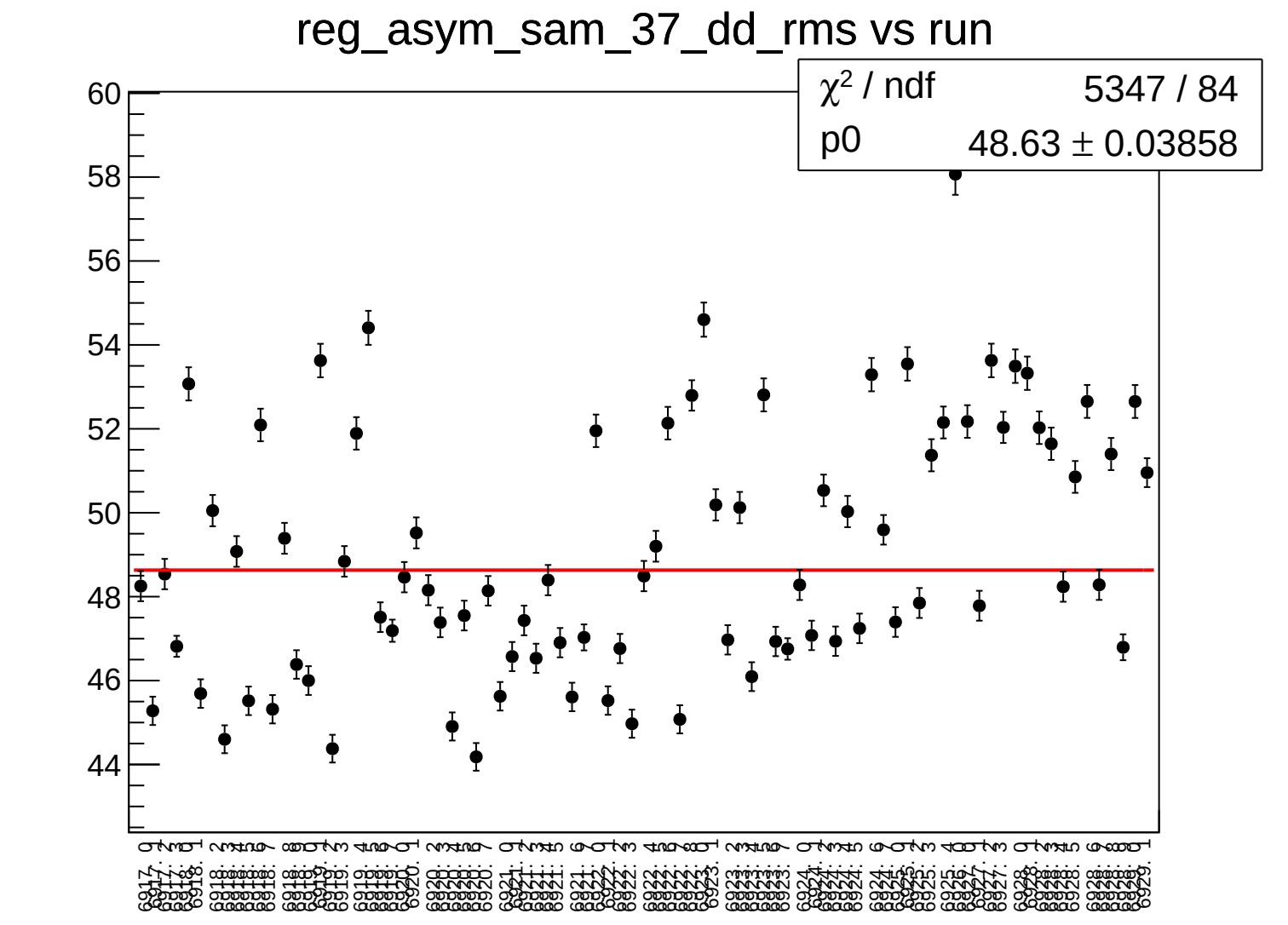

asym_sam_26_dd_mean vs run
χ² / ndf 67.16 / 84
p0 1764 ± 1758
pull
Entries 85
Mean −1356
Std Dev 1397

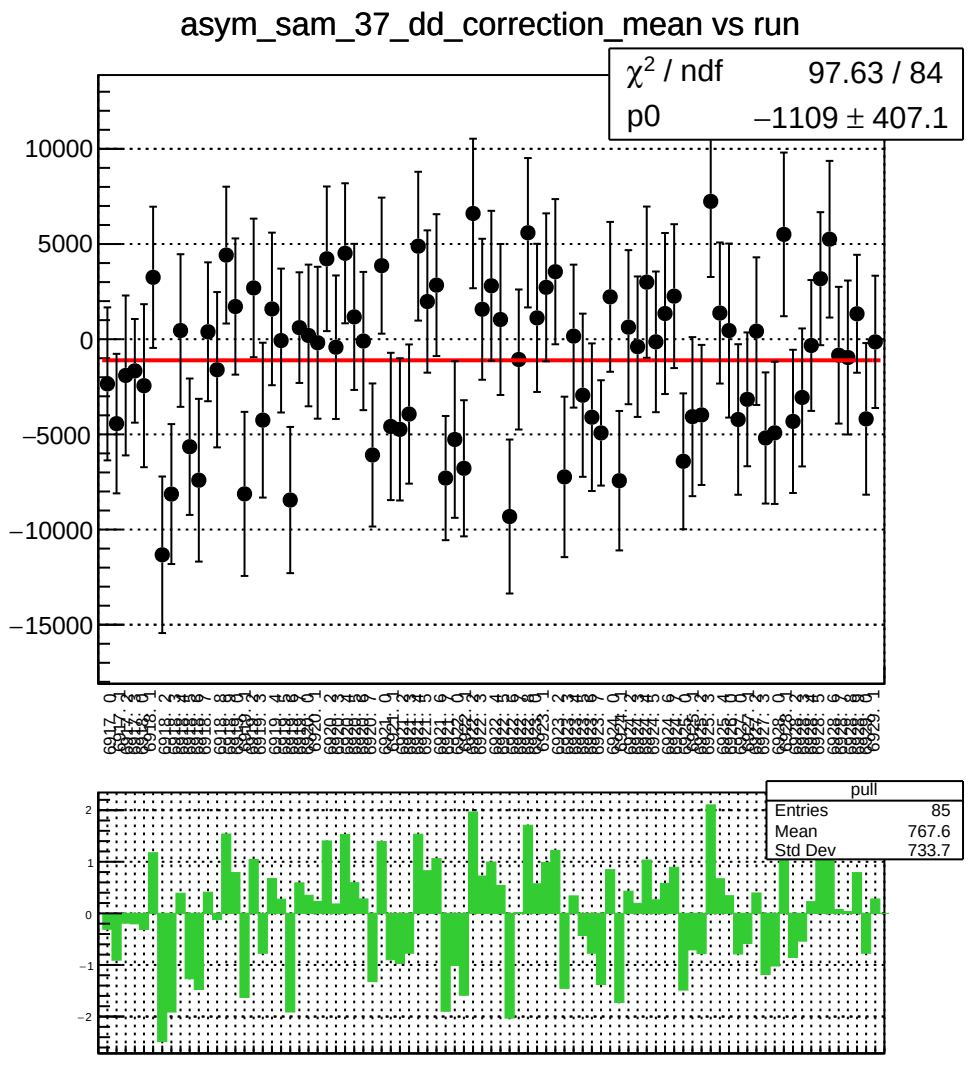

pull1D
Entries 85
Mean 0.001626
Std Dev 0.8889

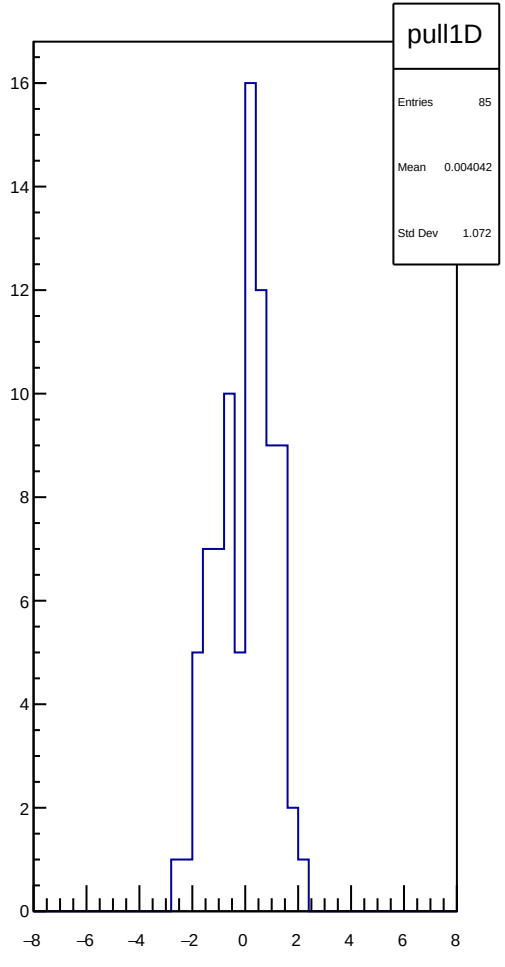

asym_sam_26_dd_rms vs run
χ^2 / ndf 3918 / 84
p0 1567 ± 1.243
1800
1750
1700
1650
1600
1550
1500
1450
1400

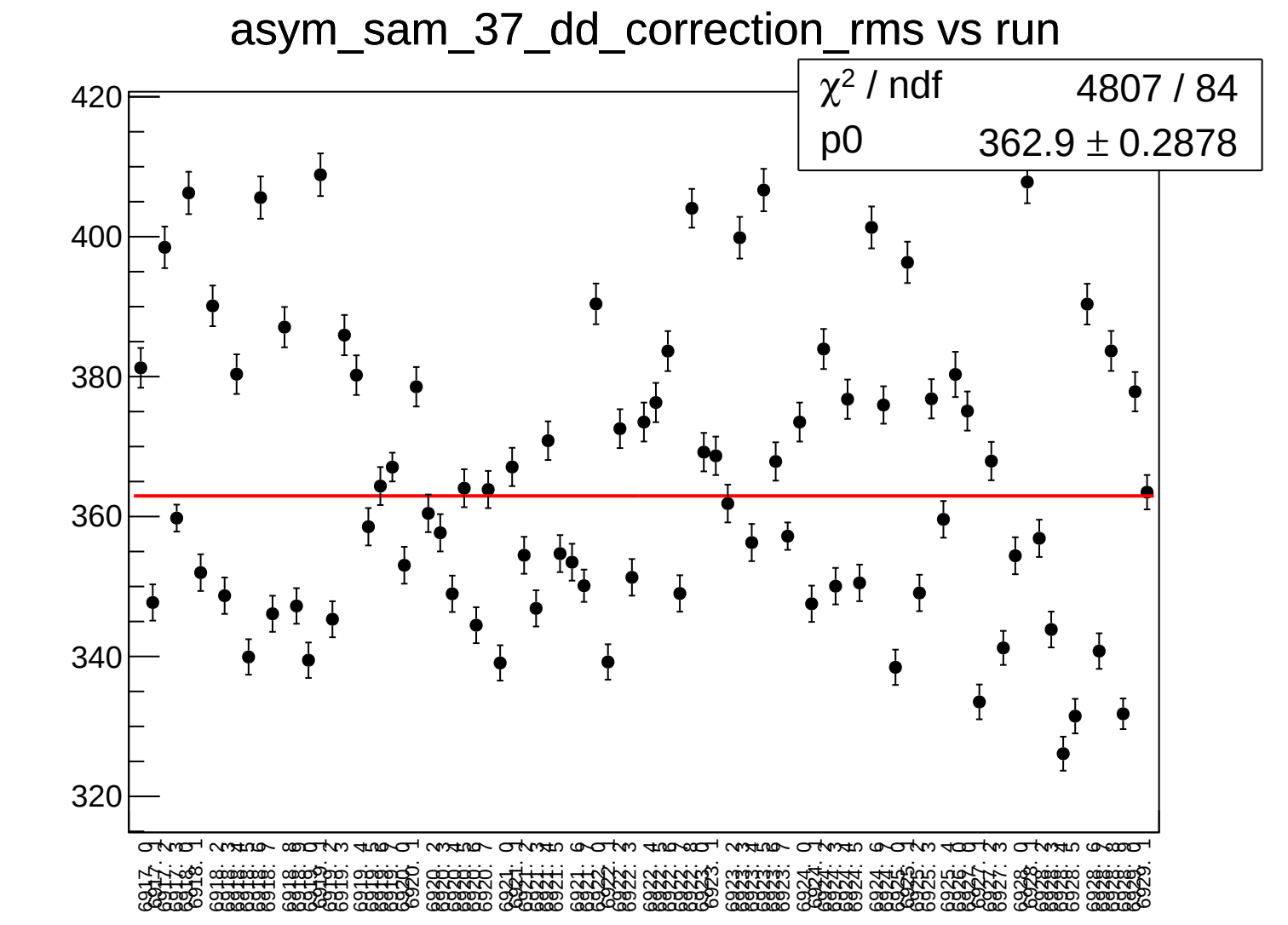

reg_asym_sam_37_dd_mean vs run
χ² / ndf 83 / 84
p0 7.769 ± 54.55
pull
Entries 85
Mean 452.7
Std Dev 402.5

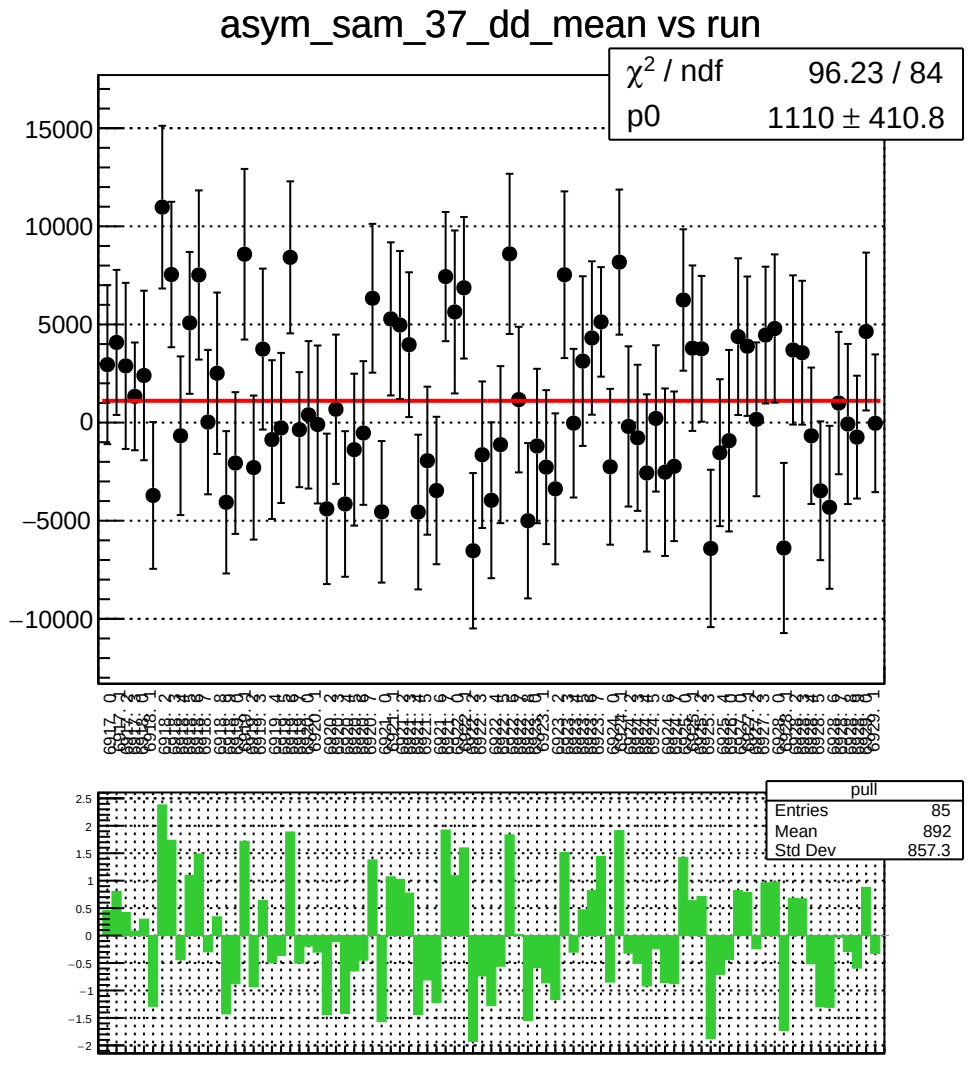

pull1D
Entries 85
Mean −0.003142
Std Dev 0.9882

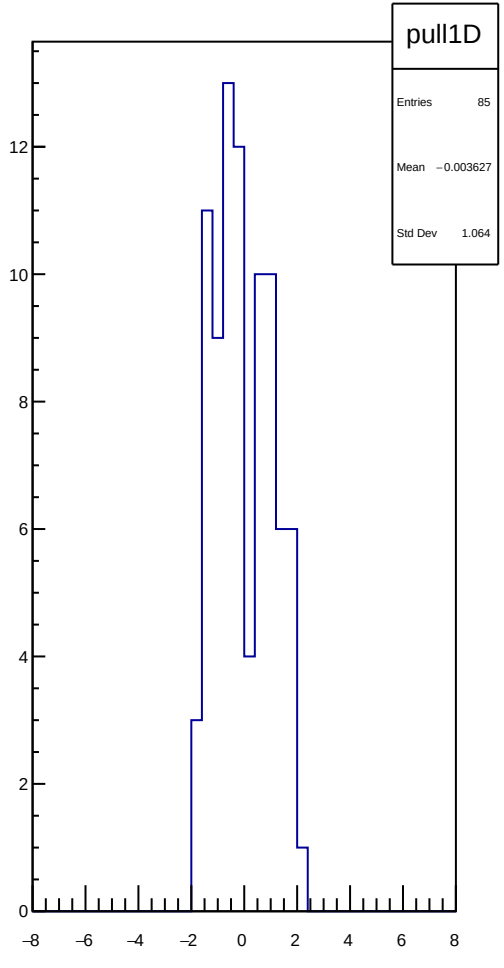

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 5347 / 84
p0 48.63 ± 0.03858
60
58
56
54
52
50
48
46
44

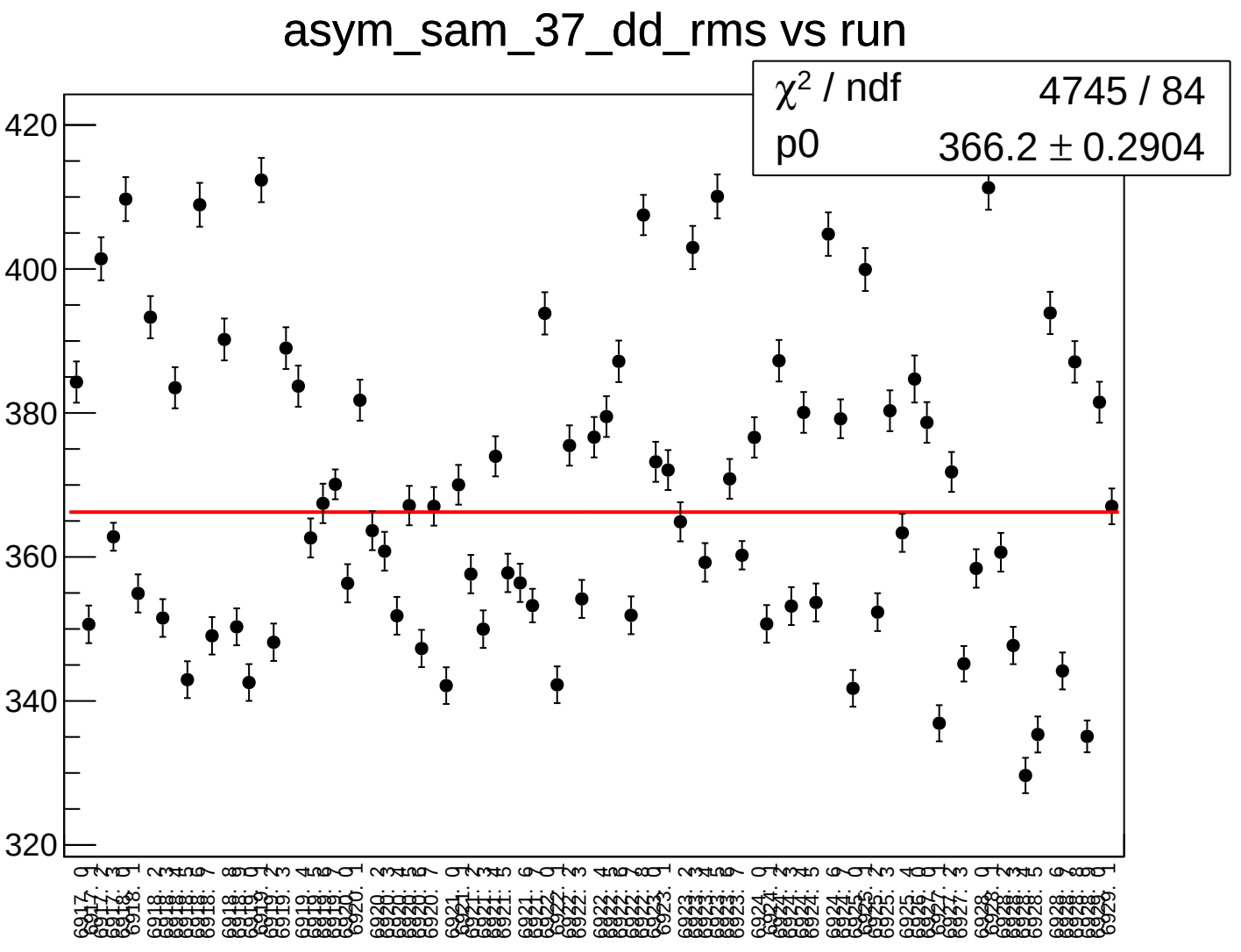

asym_sam_37_dd_correction_mean vs run
χ² / ndf 97.63 / 84
p0 −1109 ± 407.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 767.6
Std Dev 733.7
2
1
0
−1
−2

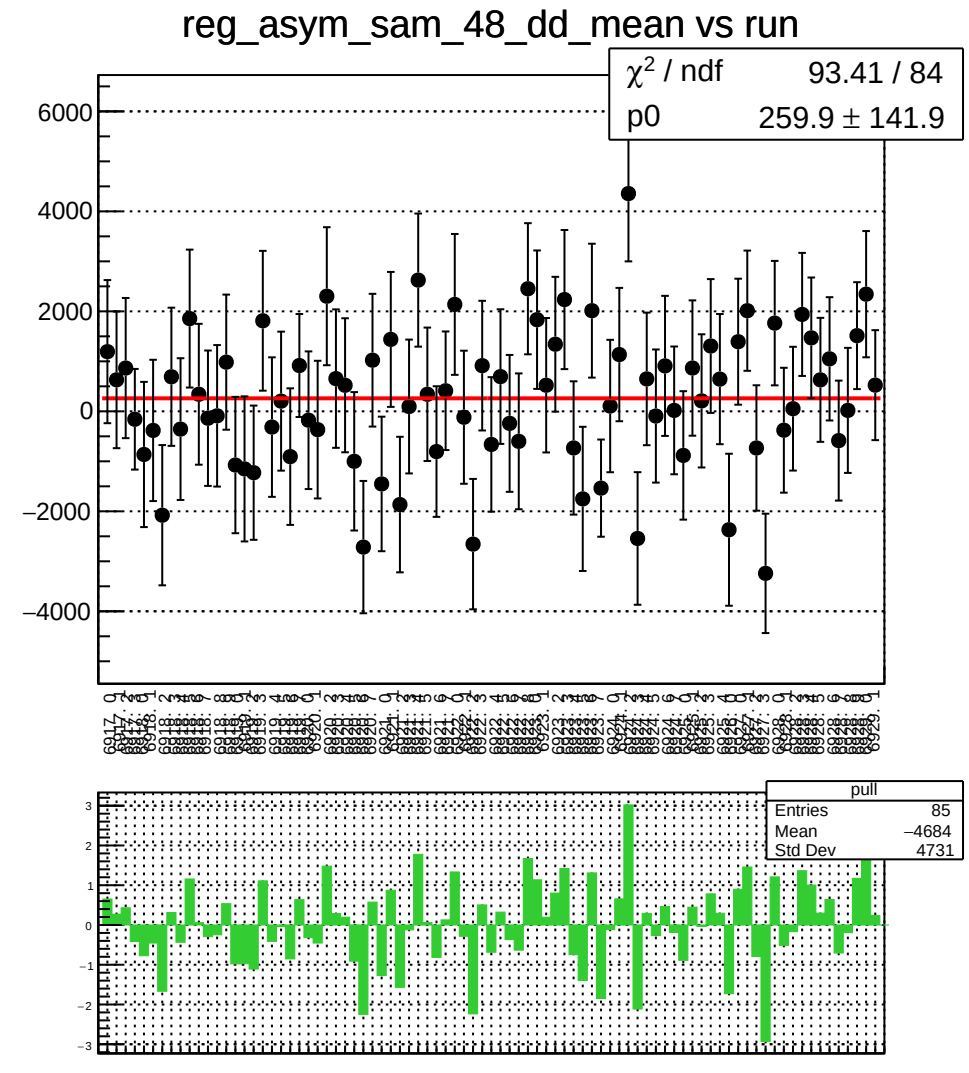

pull1D
Entries 85
Mean 0.004042
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

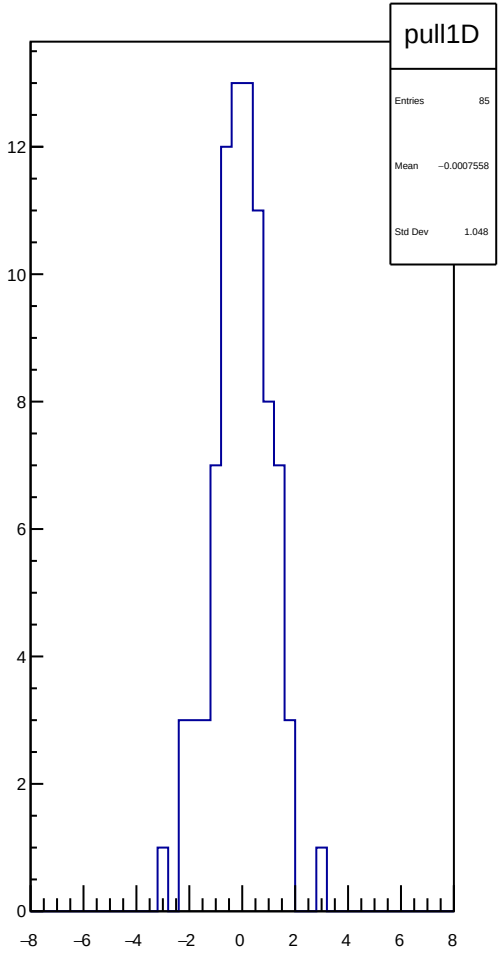

asym_sam_37_dd_correction_rms vs run
χ² / ndf 4807 / 84
p0 362.9 ± 0.2878
420
400
380
360
340
320

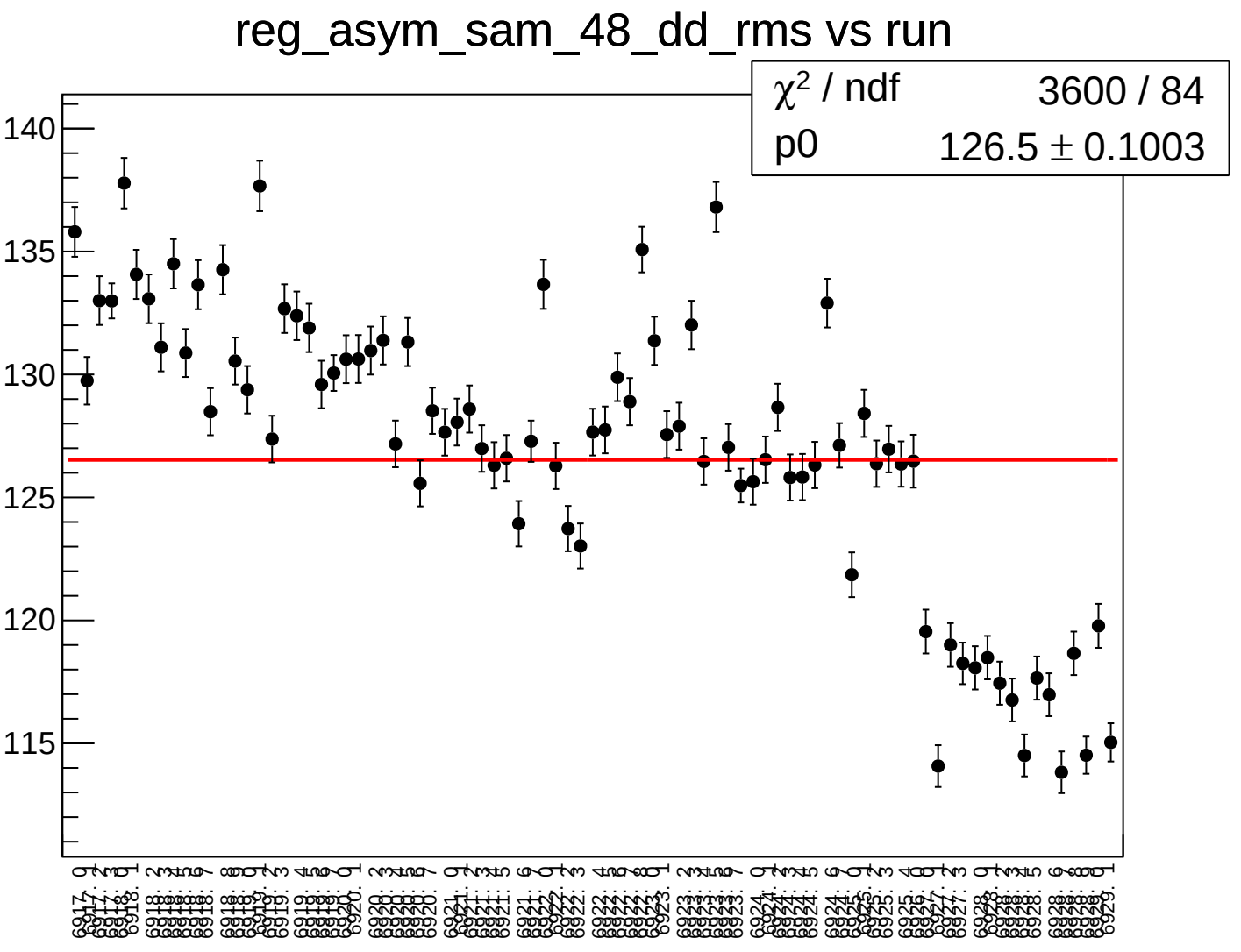

asym_sam_37_dd_mean vs run
χ^2 / ndf 96.23 / 84
p0 1110 ± 410.8
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 892
Std Dev 857.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

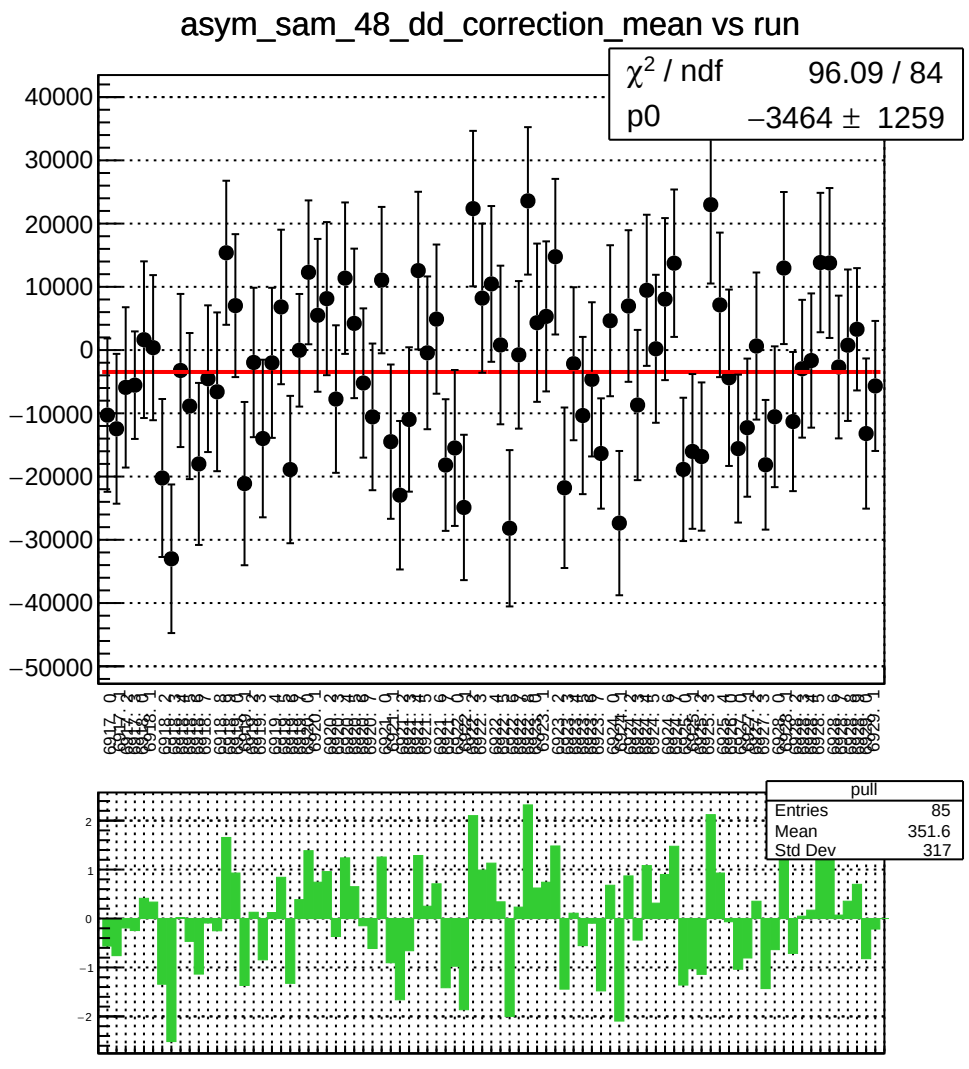

pull1D
Entries 85
Mean −0.003627
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

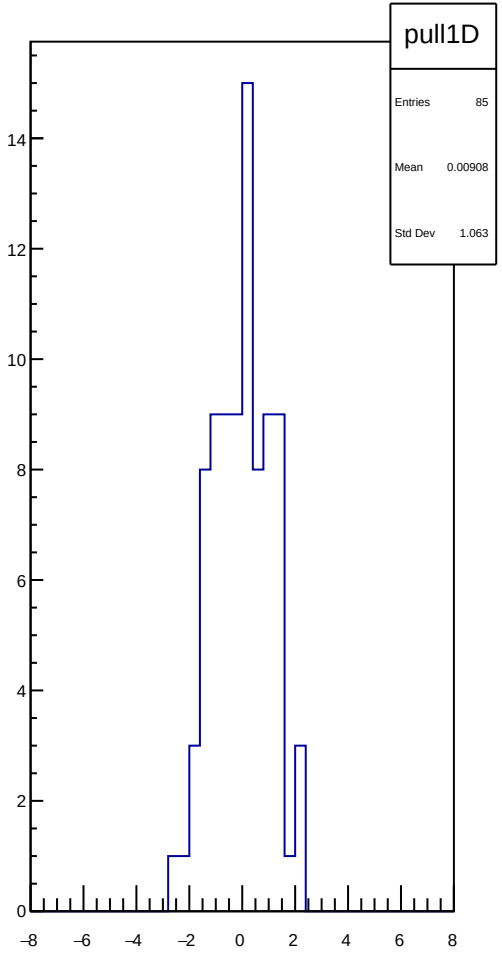

asym_sam_37_dd_rms vs run
χ² / ndf 4745 / 84
p0 366.2 ± 0.2904
420
400
380
360
340
320

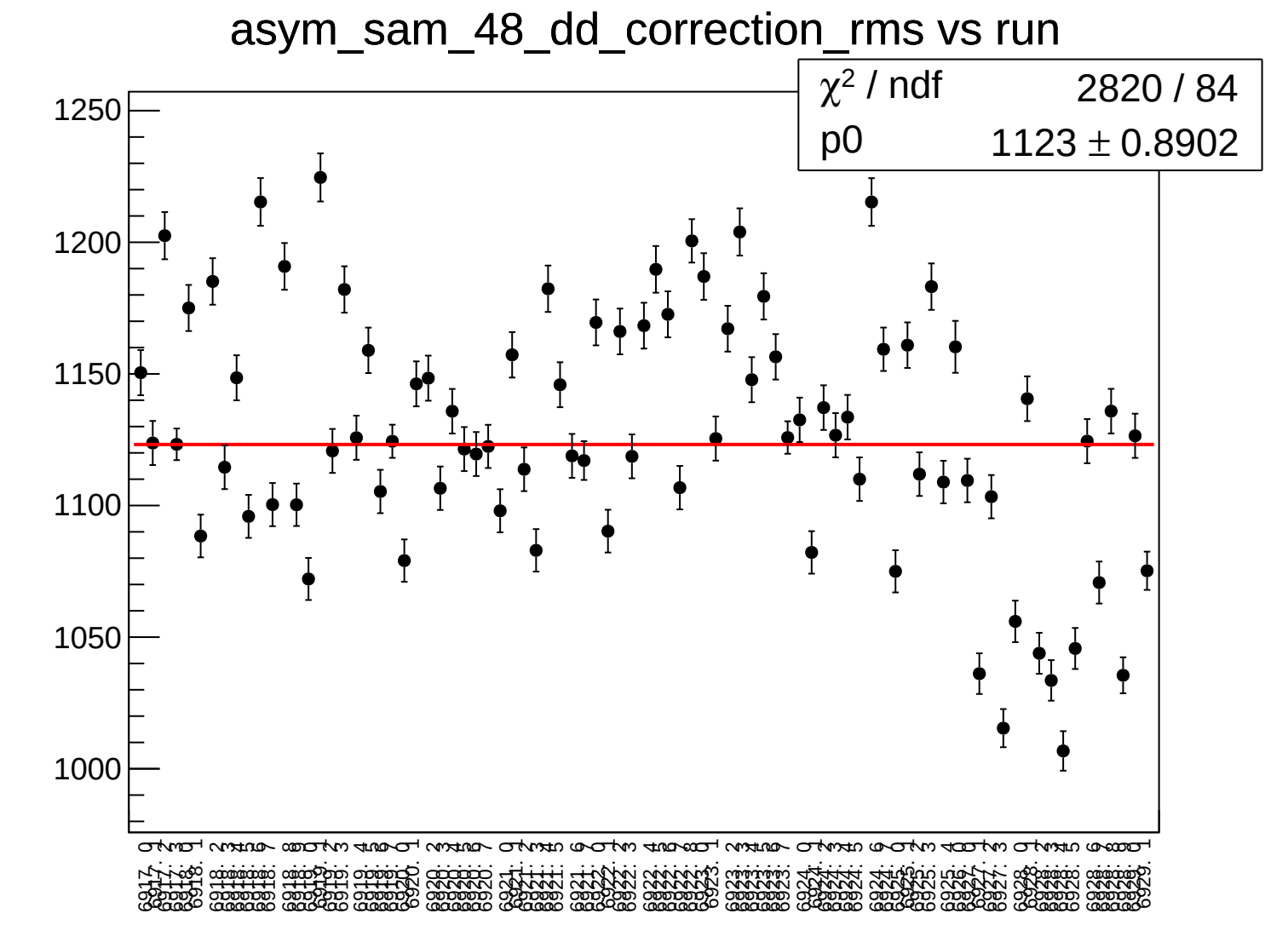

reg_asym_sam_48_dd_mean vs run
χ² / ndf 93.41 / 84
p0 259.9 ± 141.9
pull
Entries 85
Mean −4684
Std Dev 4731

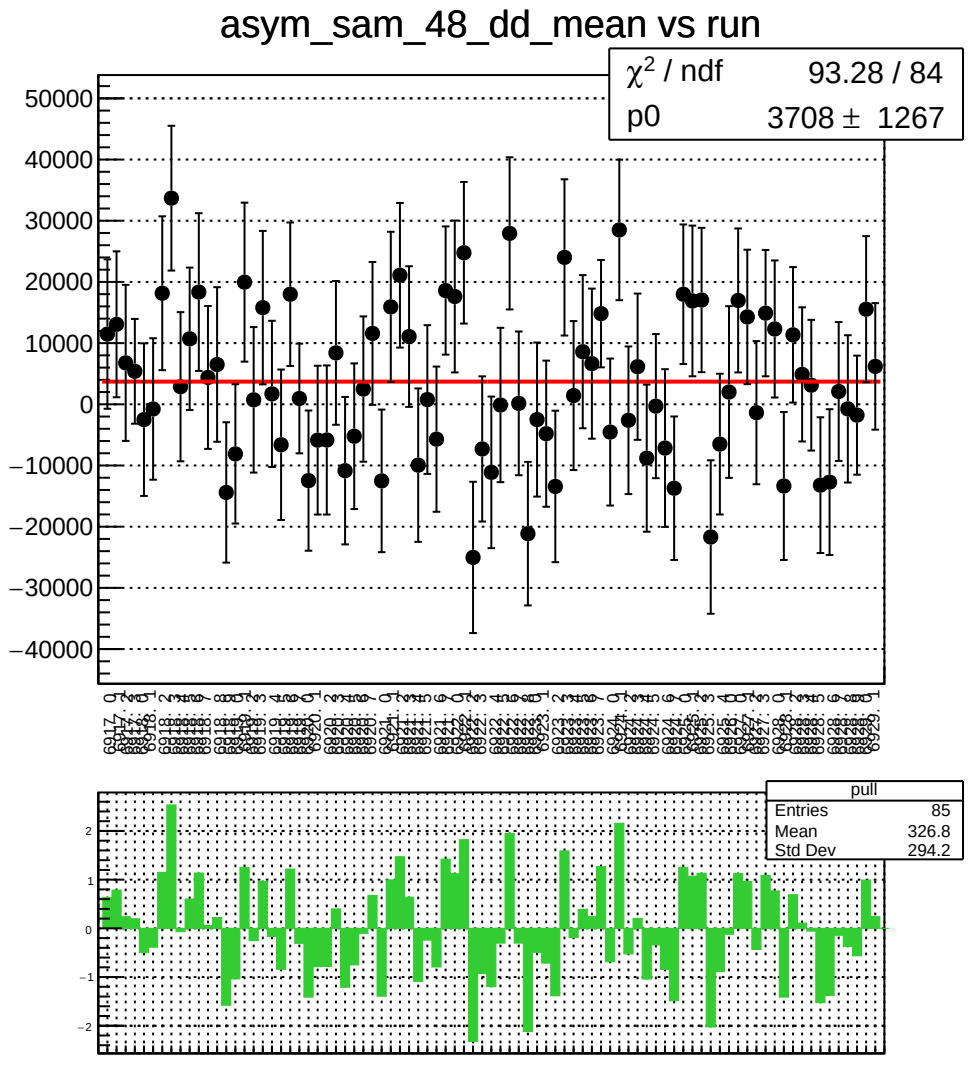

pull1D
Entries 85
Mean −0.0007558
Std Dev 1.048

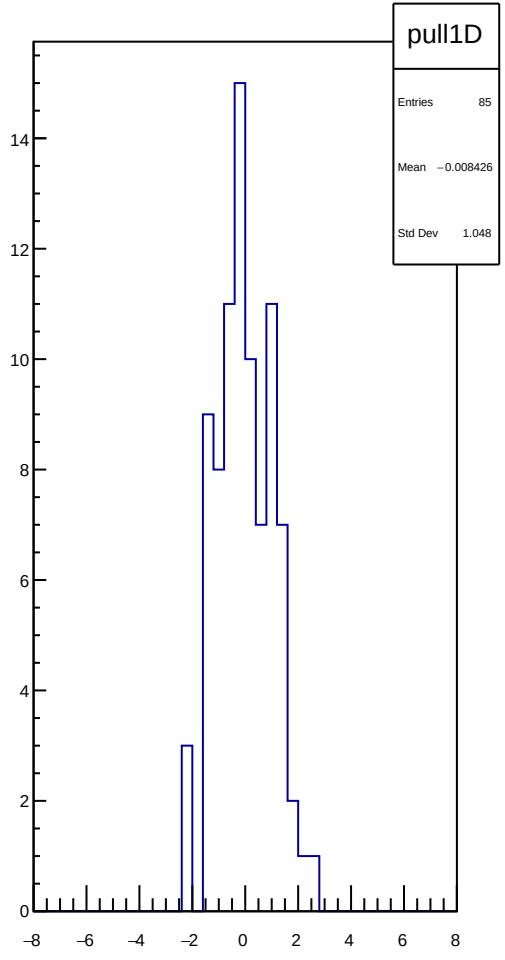

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3600 / 84
p0 126.5 ± 0.1003
140
135
130
125
120
115

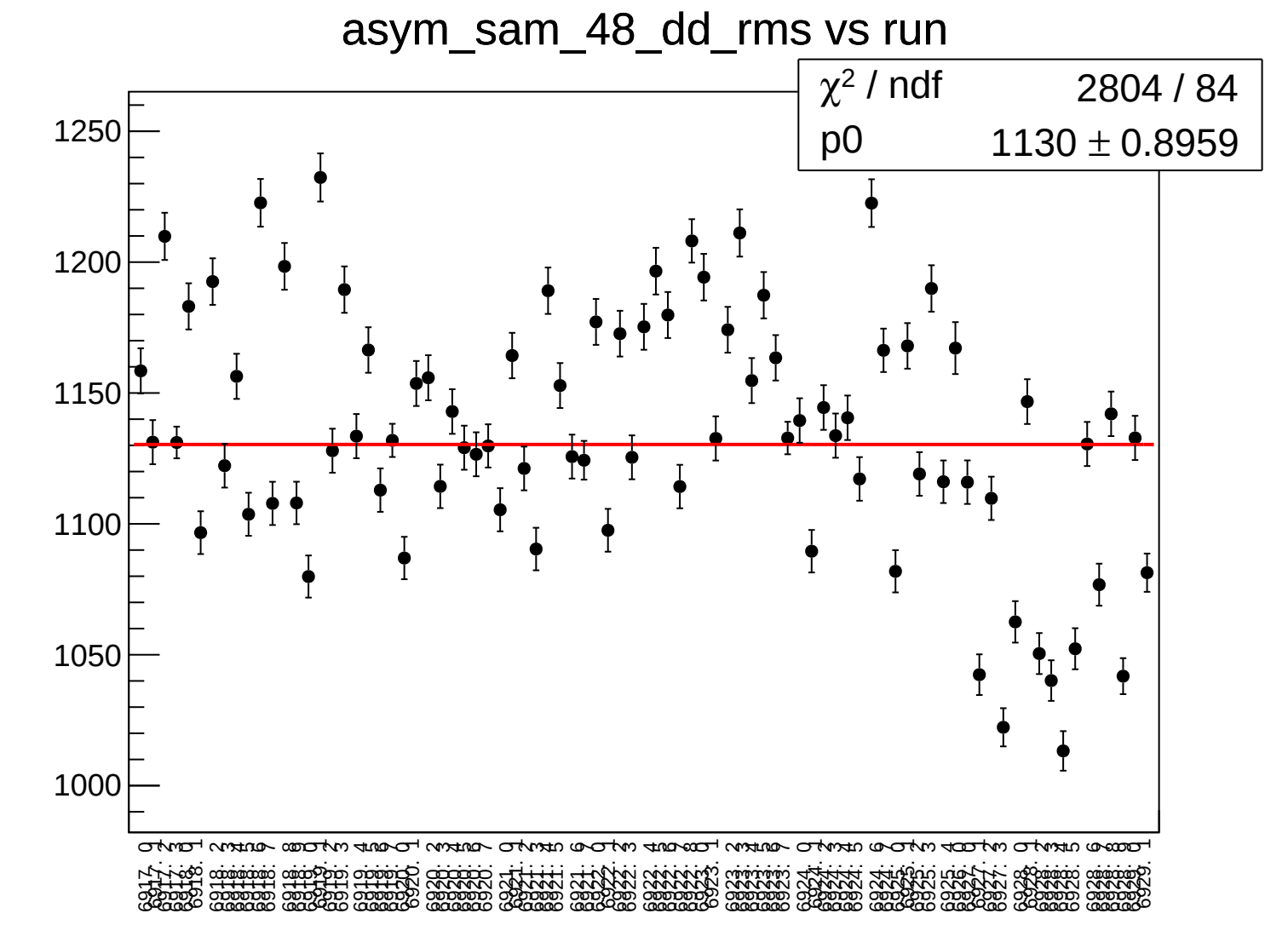

asym_sam_48_dd_correction_mean vs run
χ² / ndf 96.09 / 84
p0 −3464 ± 1259
pull
Entries 85
Mean 351.6
Std Dev 317

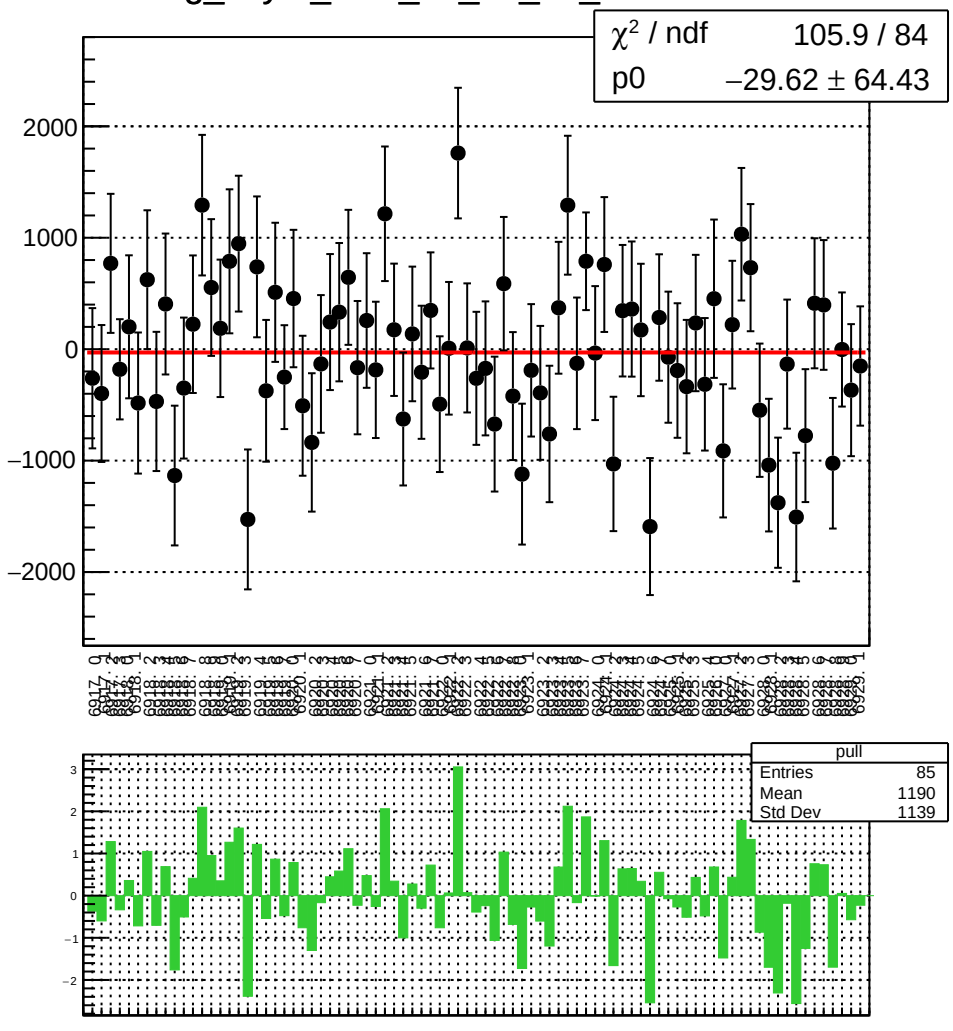

pull1D
Entries 85
Mean 0.00908
Std Dev 1.063

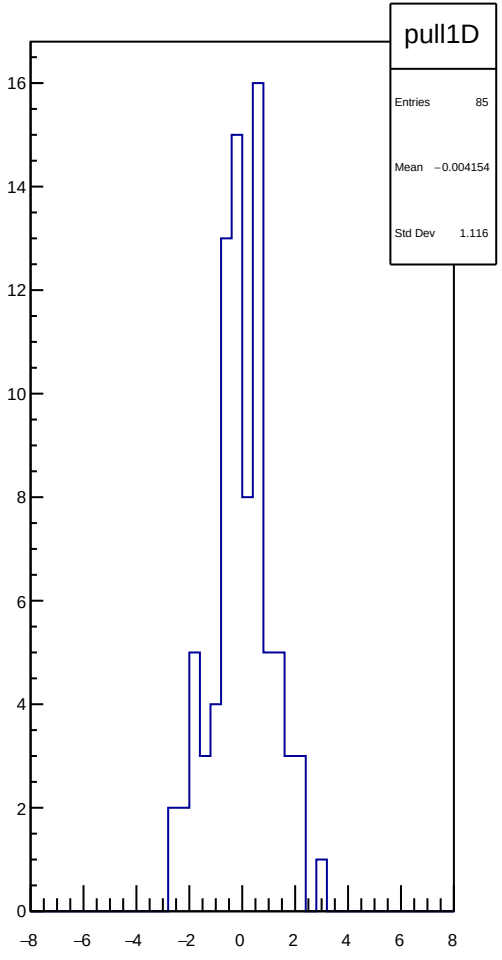

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2820 / 84
p0 1123 ± 0.8902
1250
1200
1150
1100
1050
1000

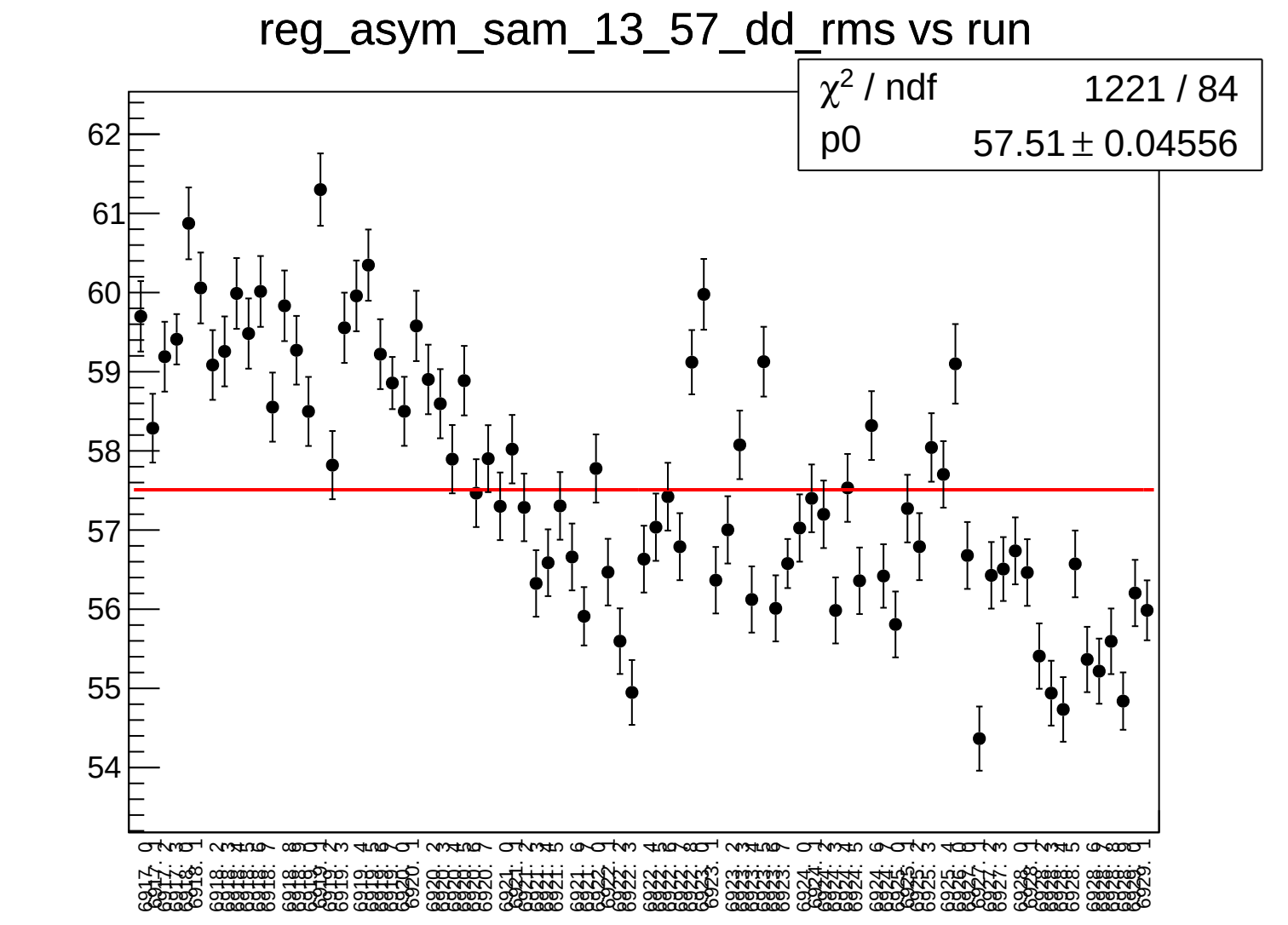

asym_sam_48_dd_mean vs run
χ² / ndf 93.28 / 84
p0 3708 ± 1267
pull
Entries 85
Mean 326.8
Std Dev 294.2

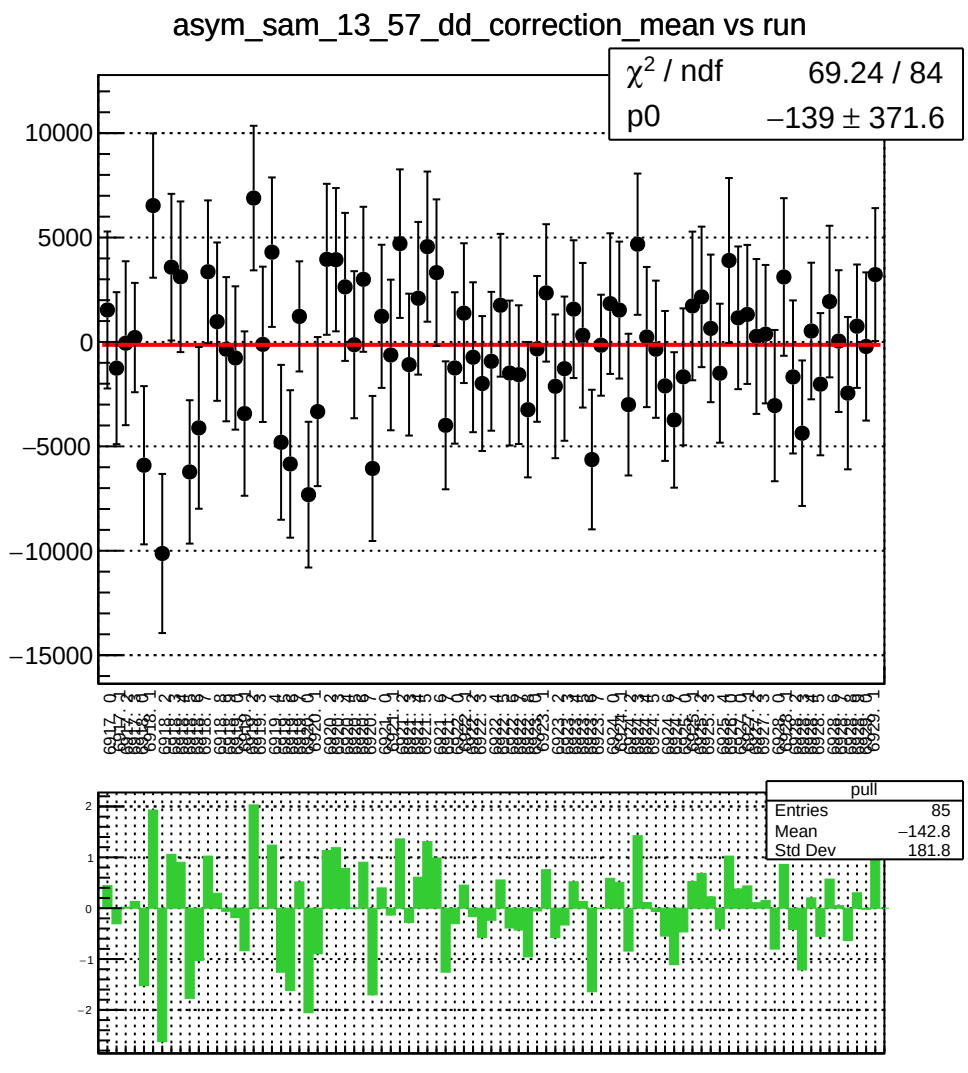

pull1D
Entries 85
Mean −0.008426
Std Dev 1.048

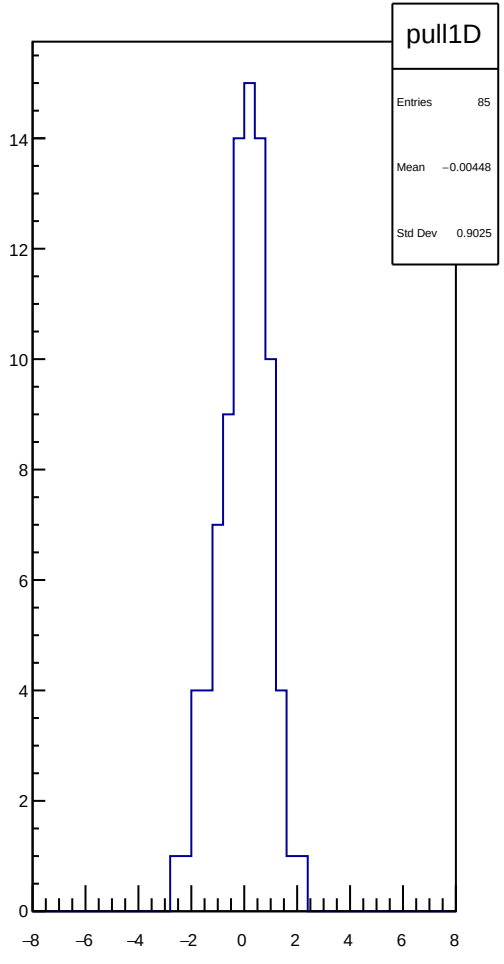

asym_sam_48_dd_rms vs run
χ² / ndf 2804 / 84
p0 1130 ± 0.8959
1250
1200
1150
1100
1050
1000

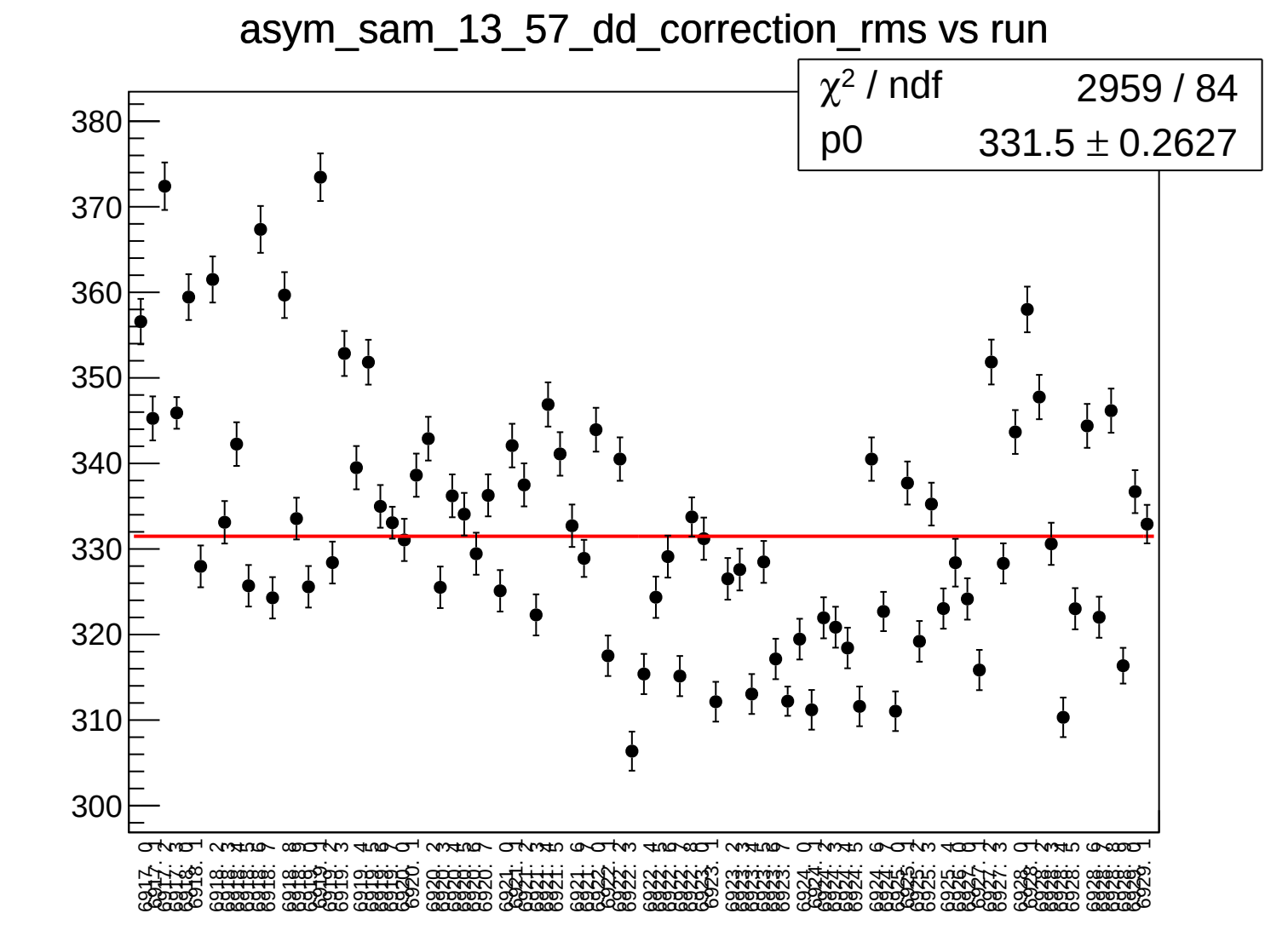

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 105.9 / 84
p0 −29.62 ± 64.43
pull
Entries 85
Mean 1190
Std Dev 1139

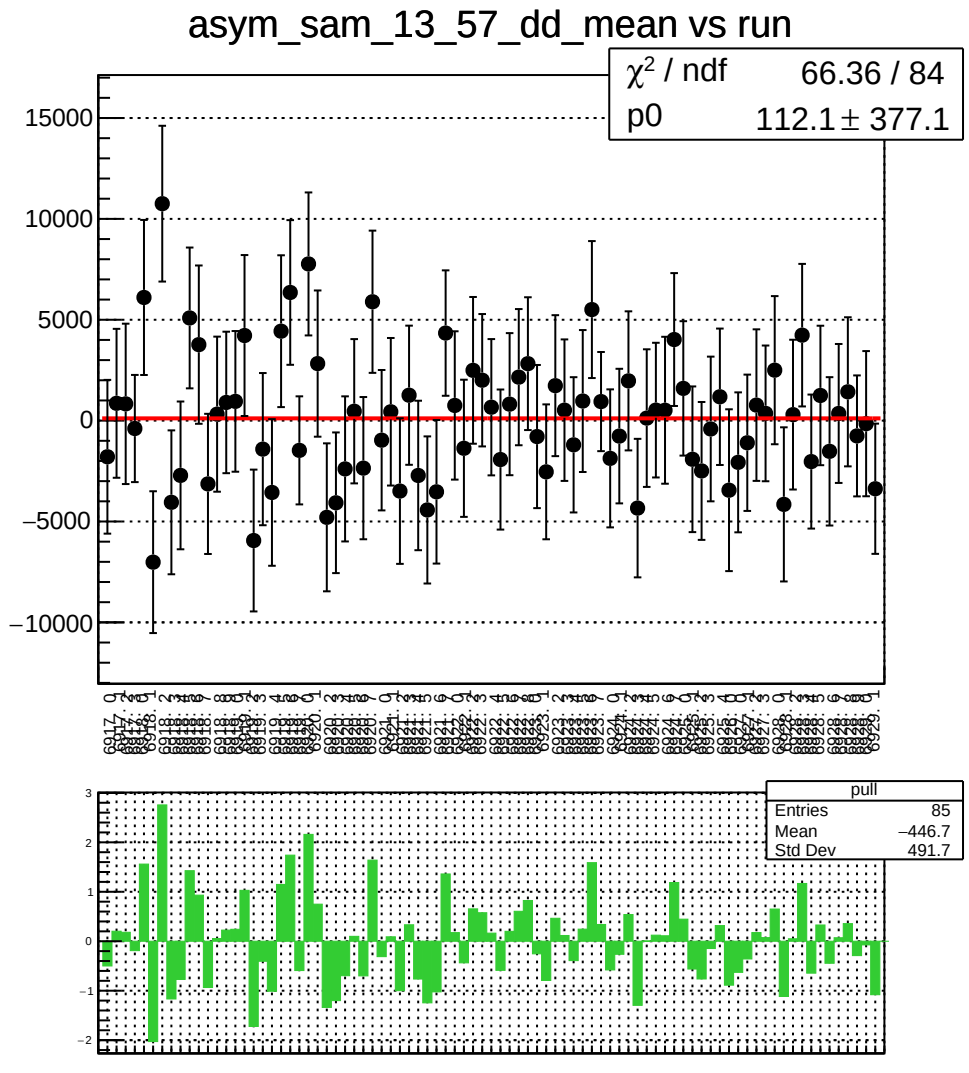

pull1D
Entries 85
Mean −0.004154
Std Dev 1.116

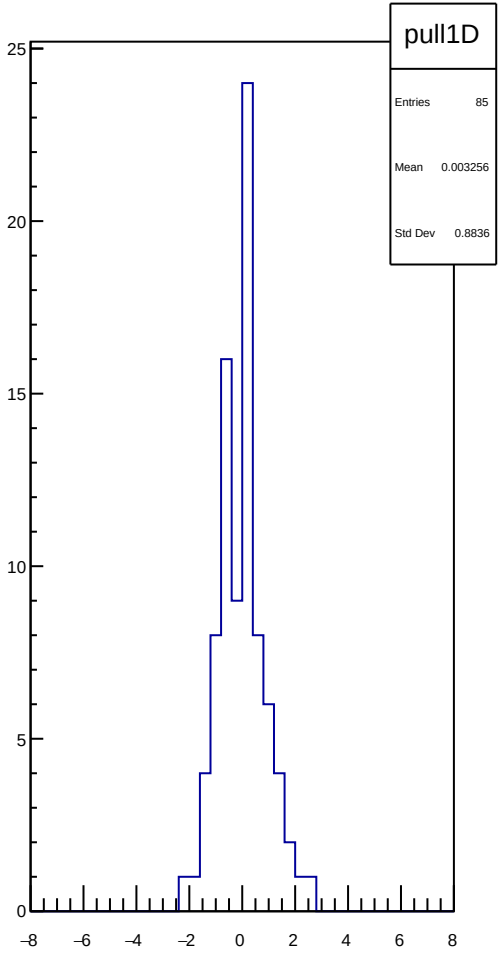

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1221 / 84
p0 57.51 ± 0.04556
62
61
60
59
58
57
56
55
54

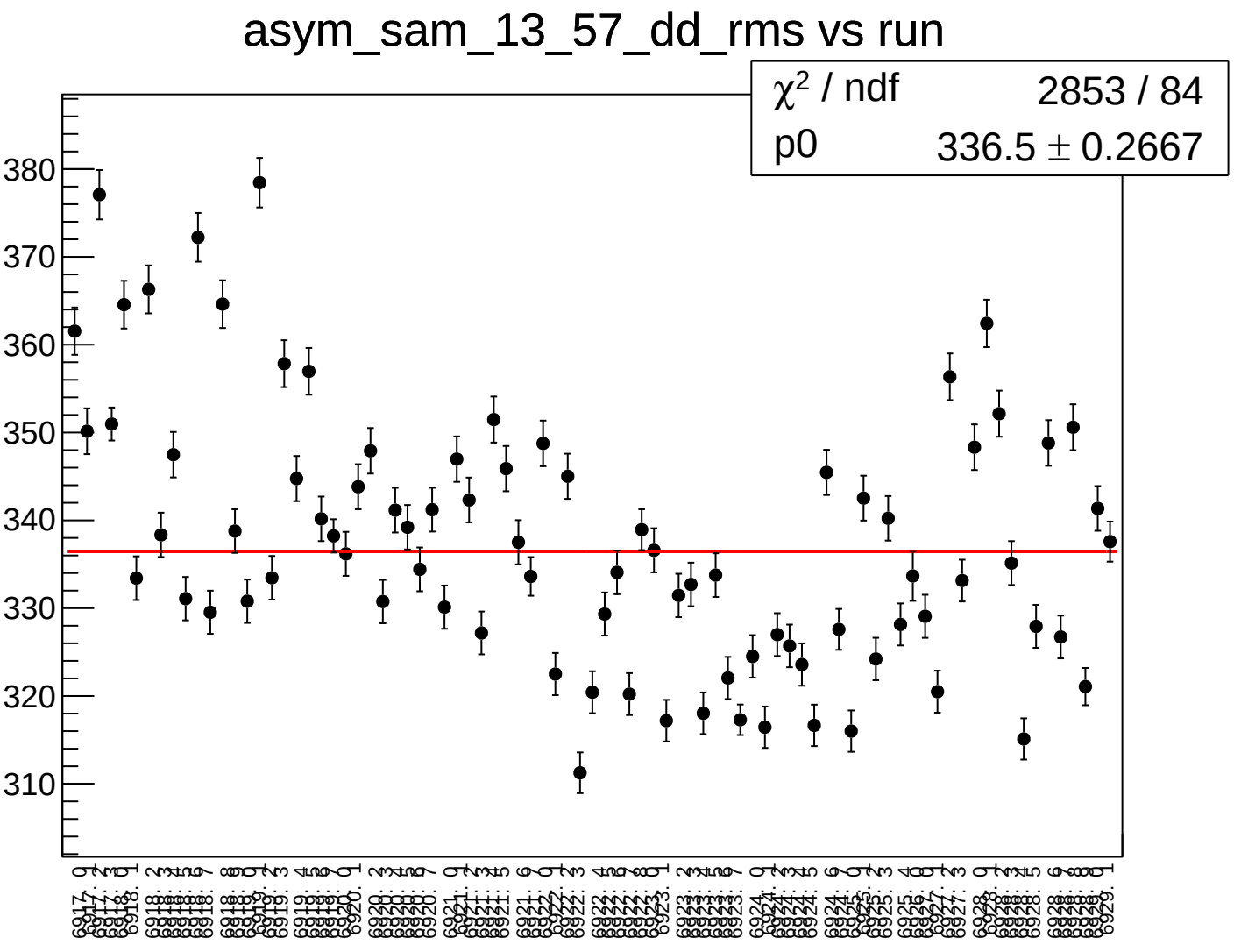

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 69.24 / 84
p0 −139 ± 371.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −142.8
Std Dev 181.8
2
1
0
−1
−2

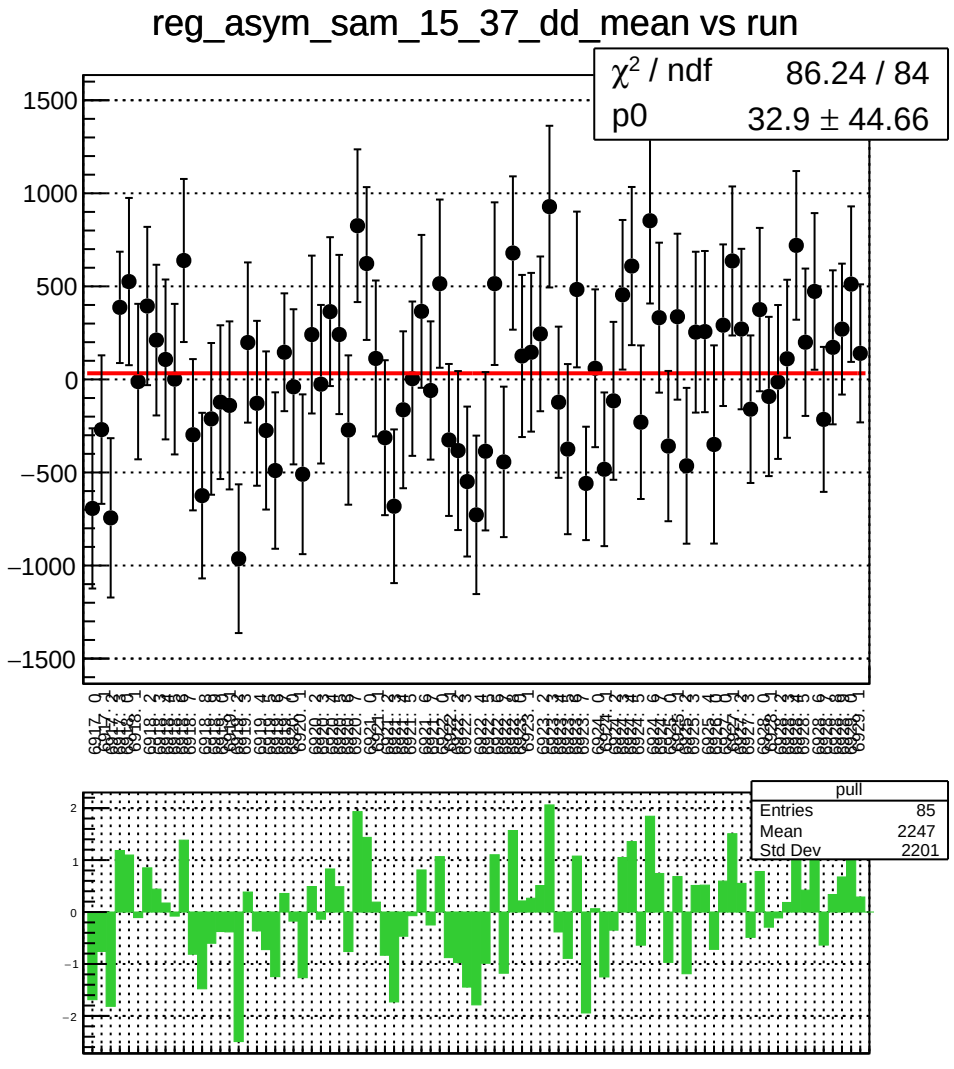

pull1D
Entries 85
Mean −0.00448
Std Dev 0.9025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

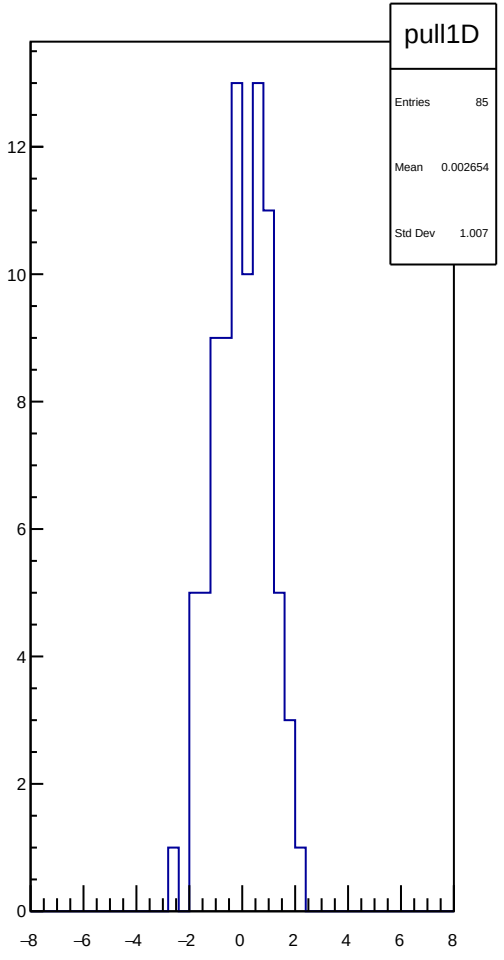

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2959 / 84
p0 331.5 ± 0.2627
380
370
360
350
340
330
320
310
300

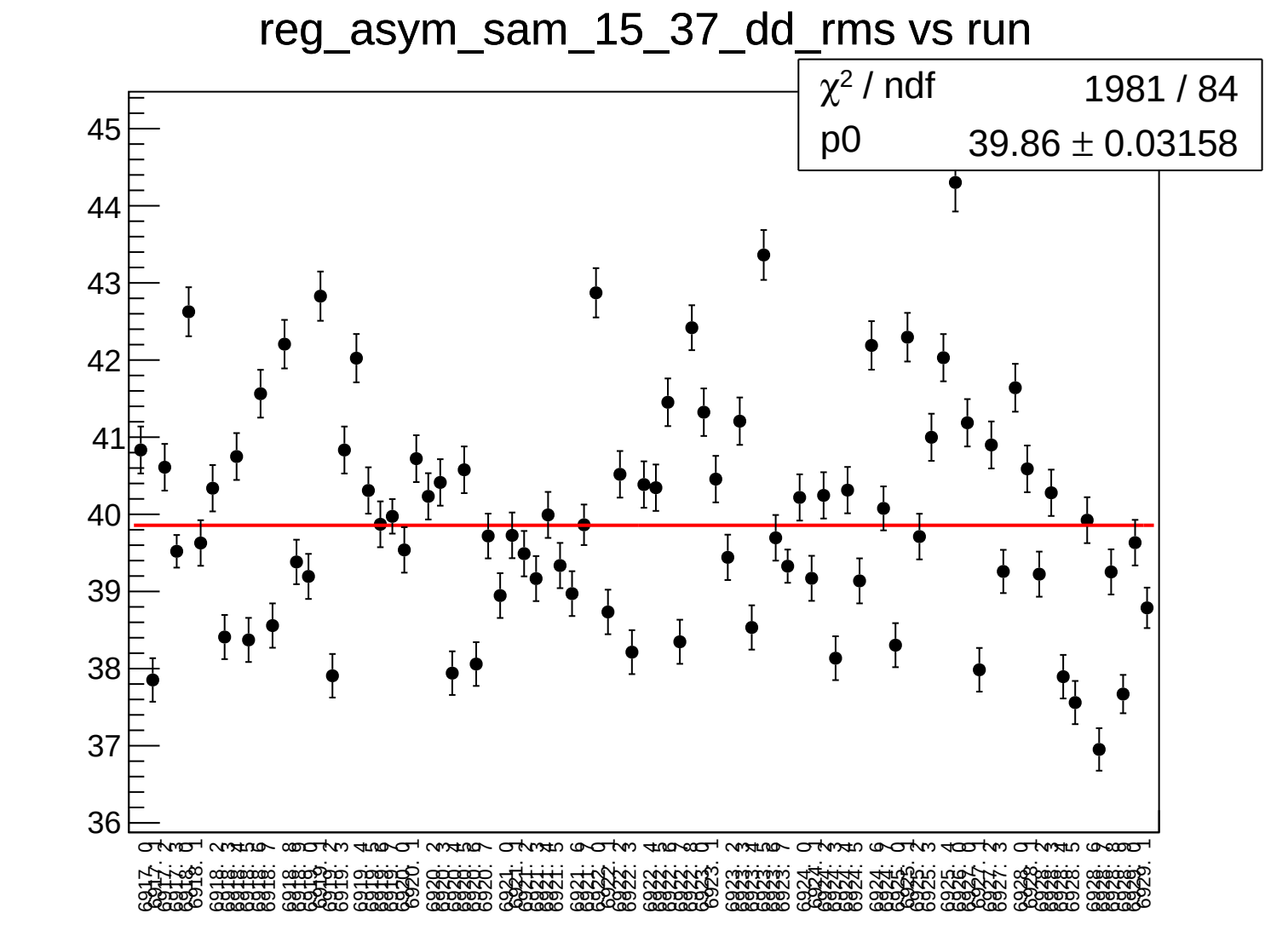

asym_sam_13_57_dd_mean vs run
χ² / ndf 66.36 / 84
p0 112.1 ± 377.1
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −446.7
Std Dev 491.7
3
2
1
0
−1
−2

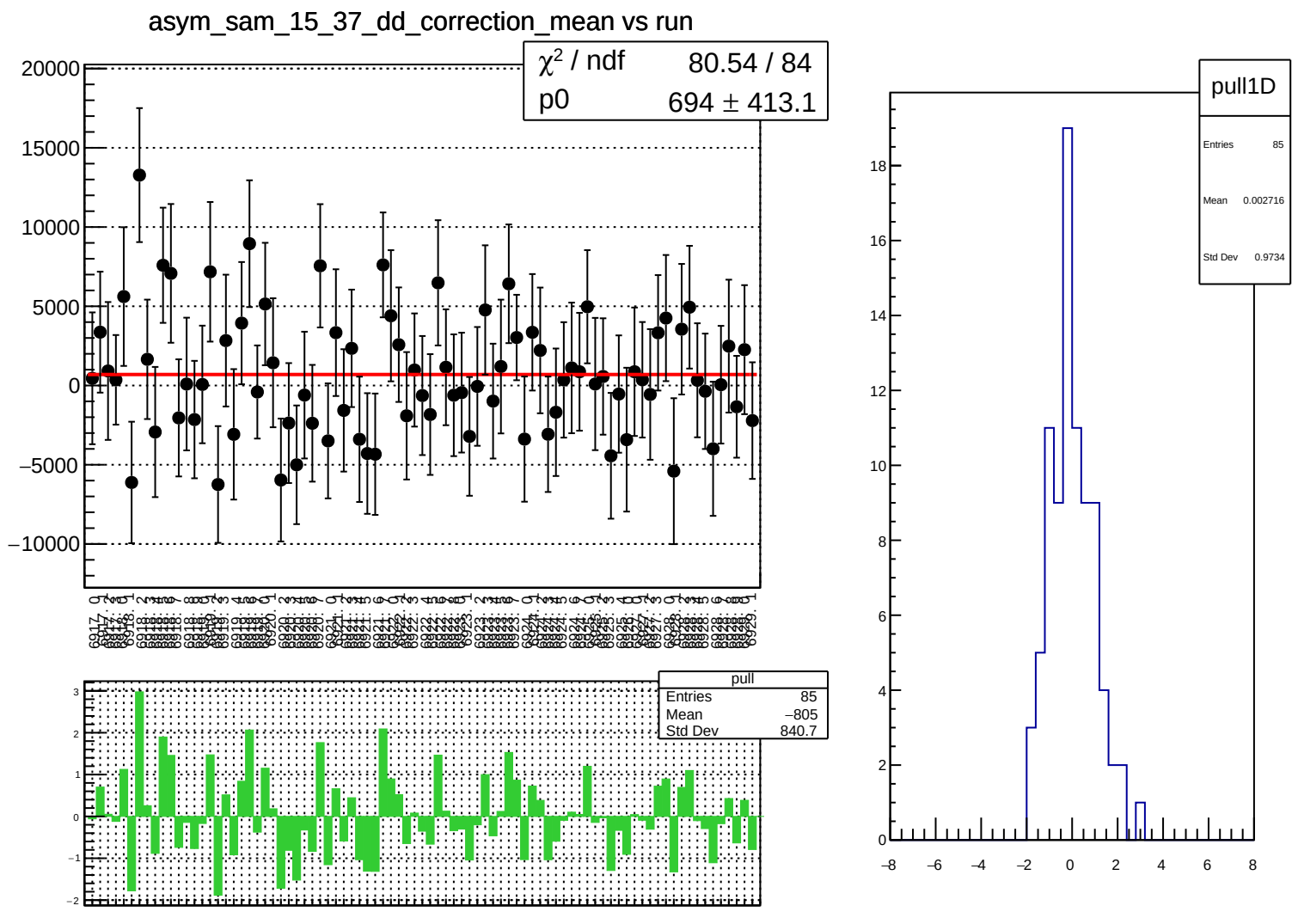

pull1D
Entries 85
Mean 0.003256
Std Dev 0.8836
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

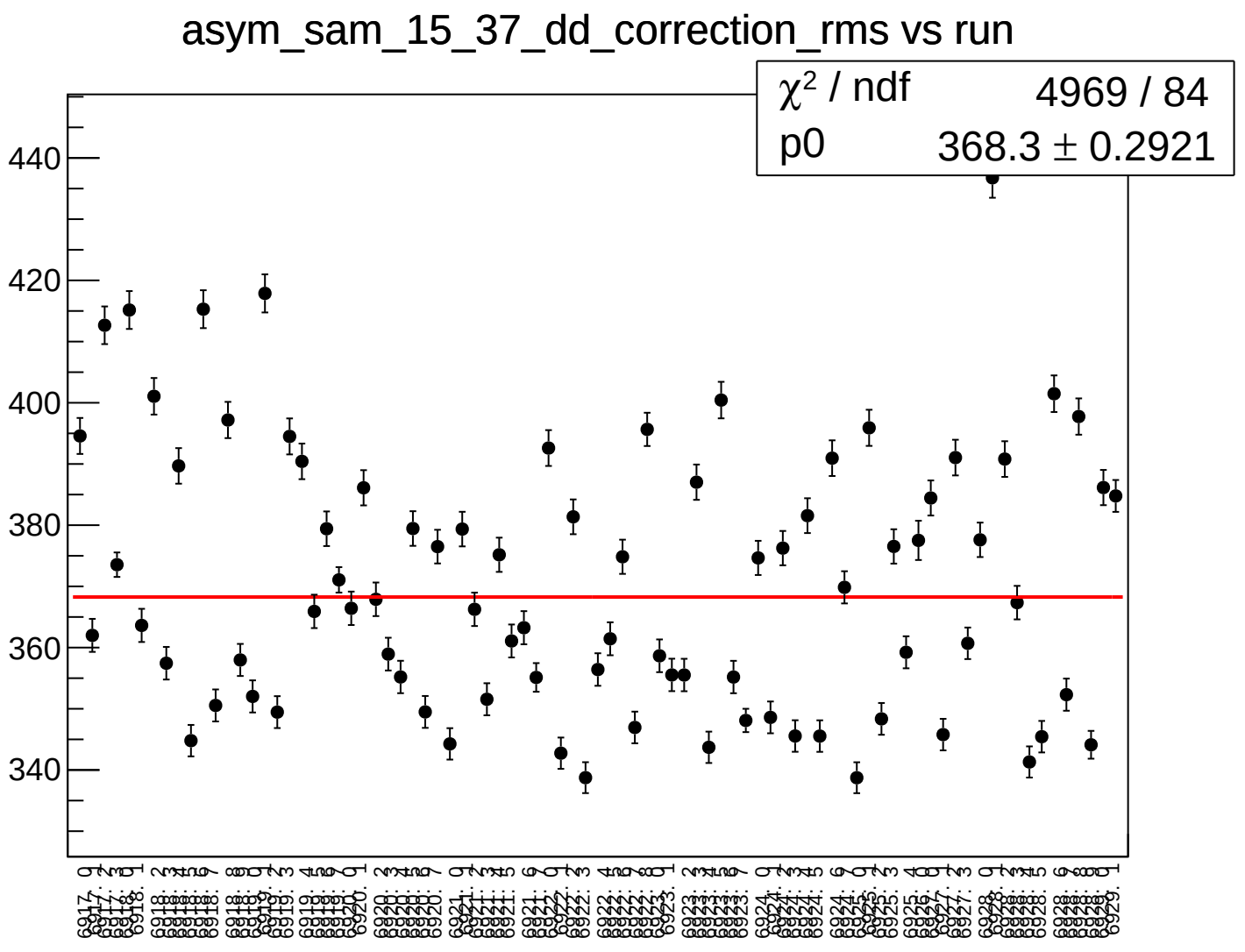

asym_sam_13_57_dd_rms vs run
χ² / ndf 2853 / 84
p0 336.5 ± 0.2667
380
370
360
350
340
330
320
310

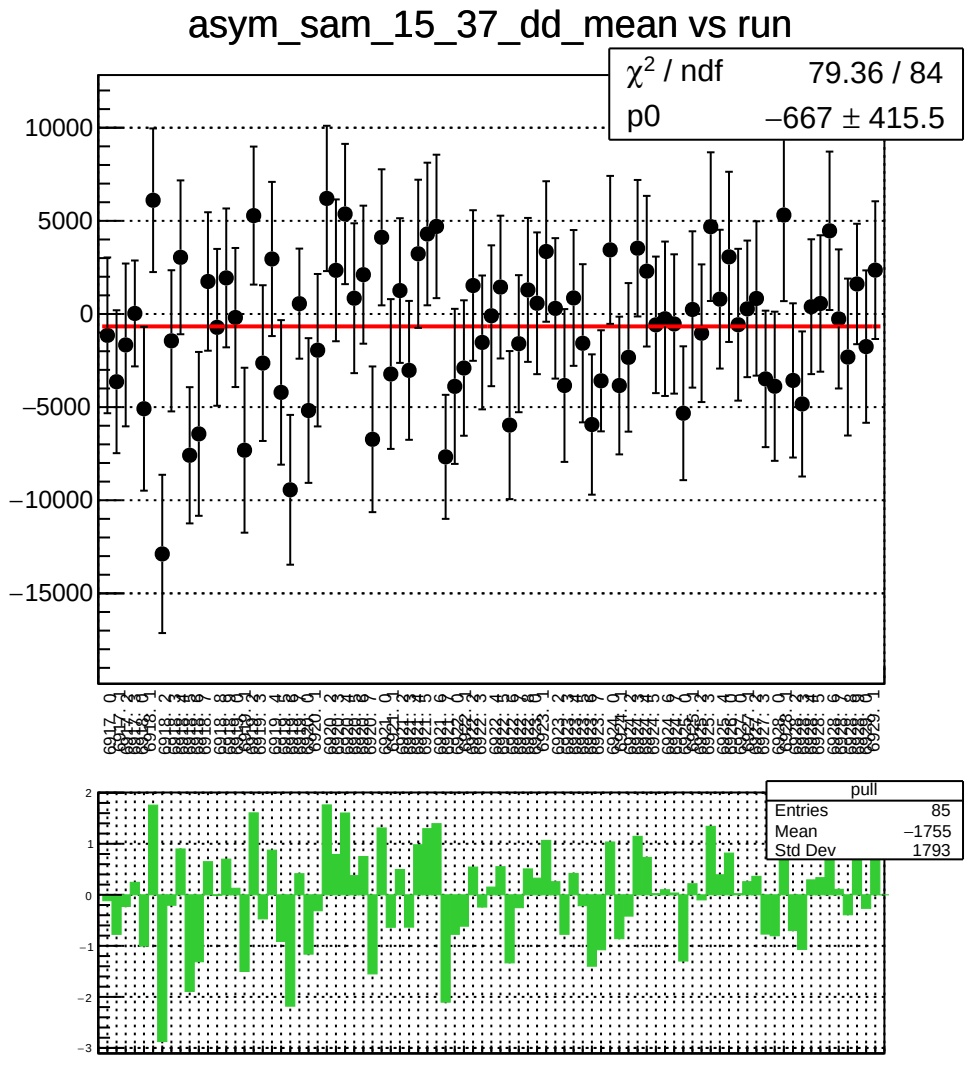

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 86.24 / 84
p0 32.9 ± 44.66
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 2247
Std Dev 2201
2
1
0
−1
−2

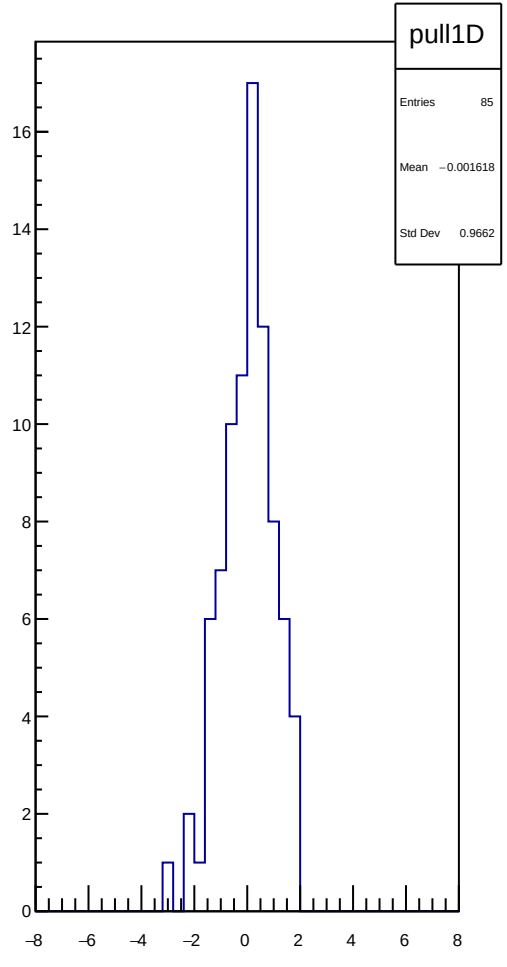

pull1D
Entries 85
Mean 0.002654
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

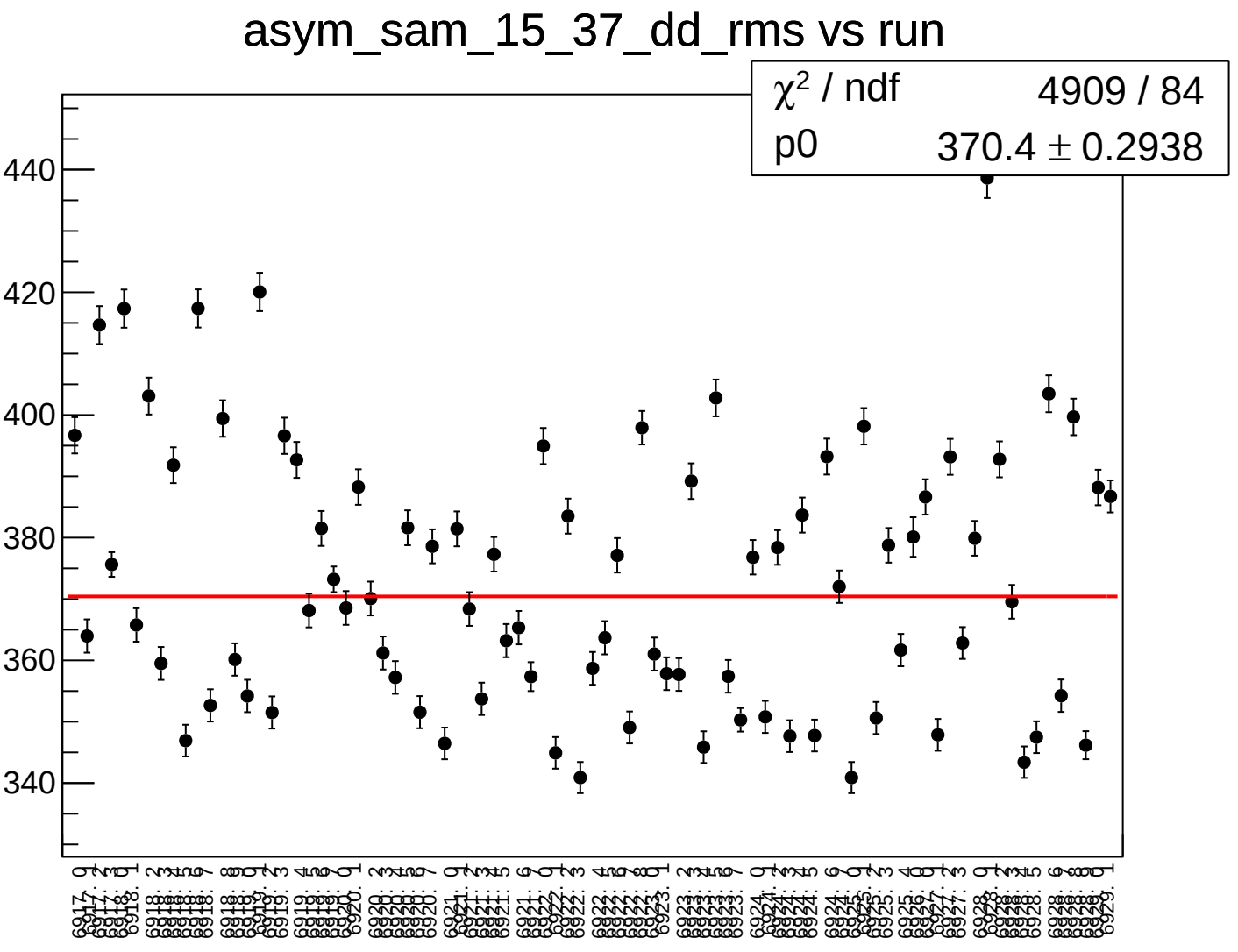

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1981 / 84
p0 39.86 ± 0.03158
45
44
43
42
41
40
39
38
37
36

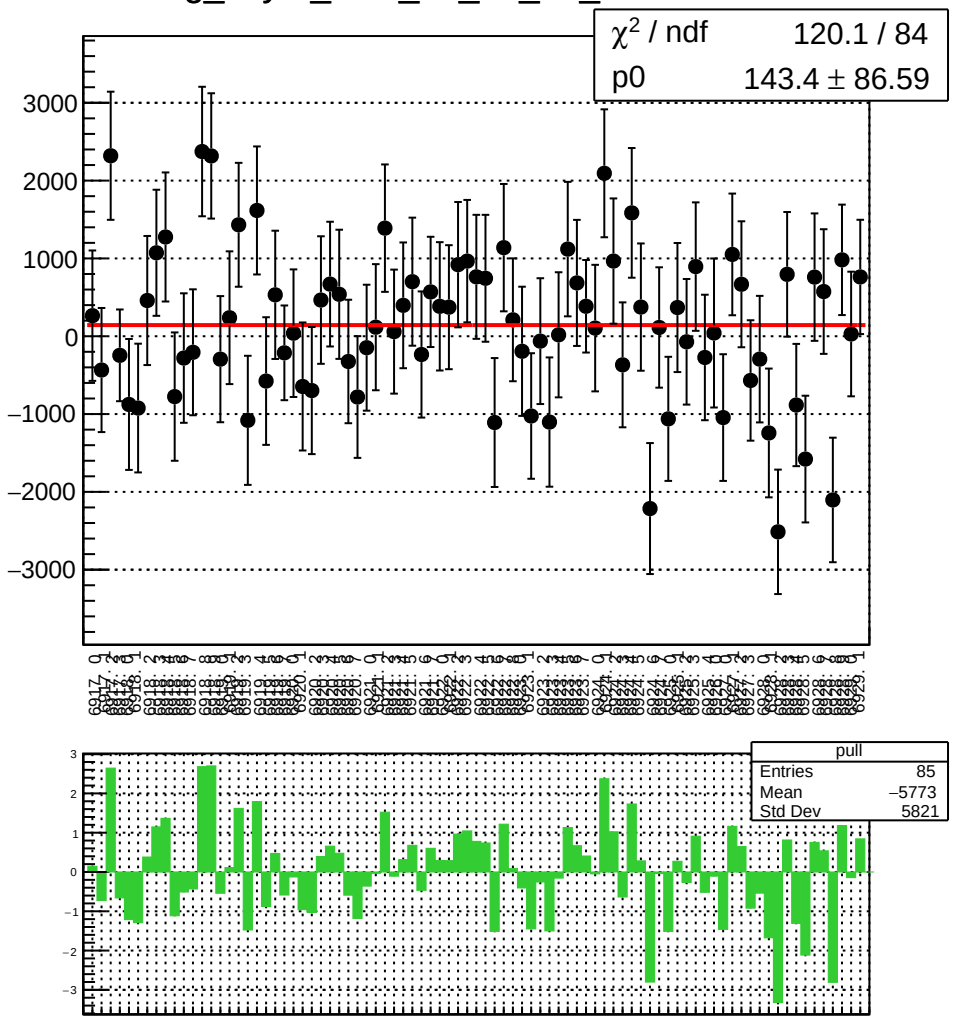

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 80.54 / 84
p0 694 ± 413.1
pull
Entries 85
Mean −805
Std Dev 840.7
pull1D
Entries 85
Mean 0.002716
Std Dev 0.9734

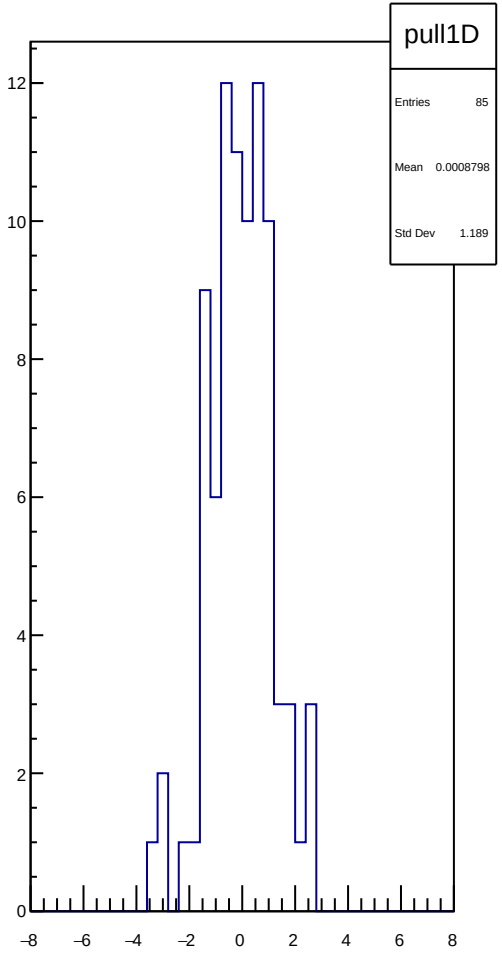

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 4969 / 84
p0 368.3 ± 0.2921
440
420
400
380
360
340

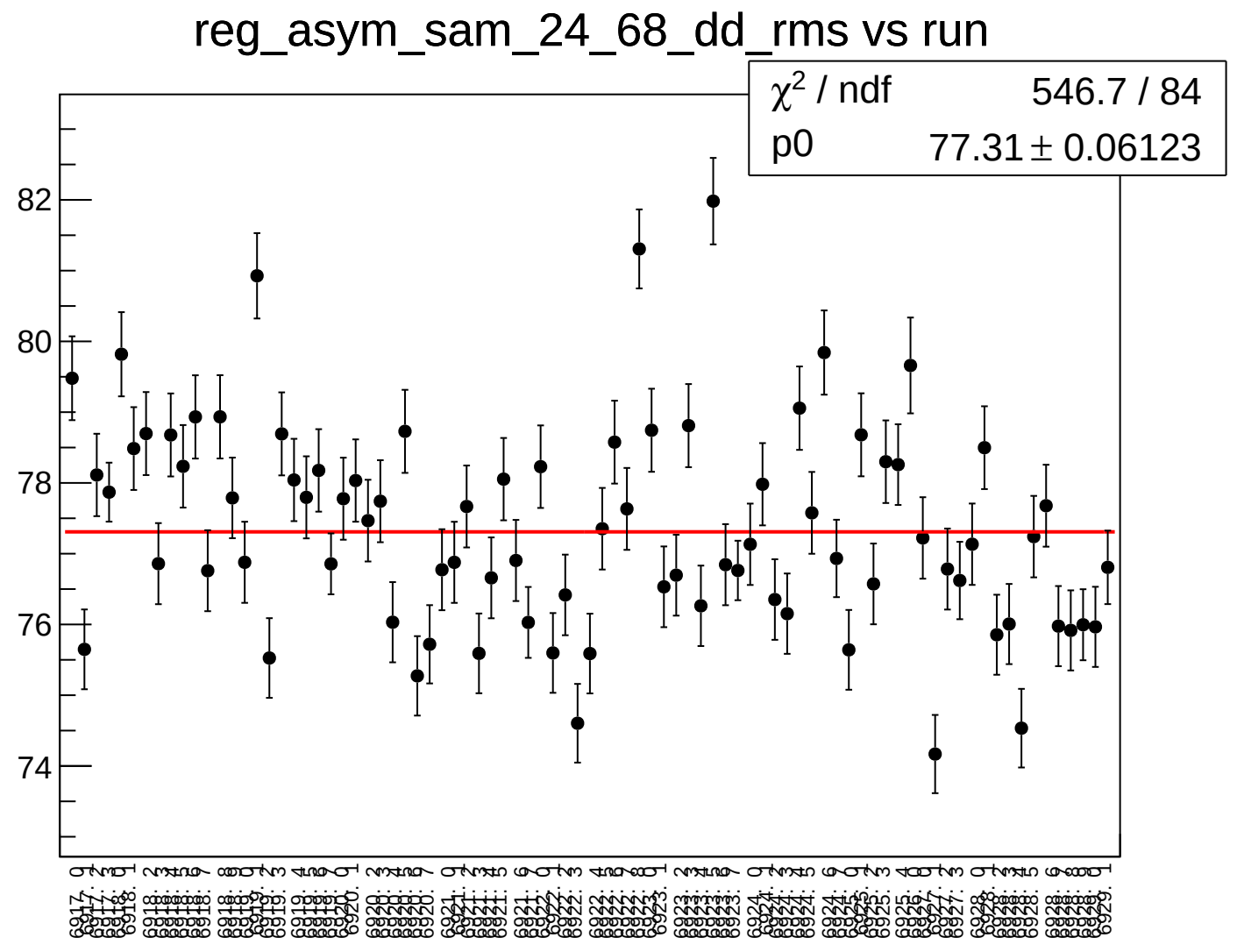

asym_sam_15_37_dd_mean vs run
χ² / ndf 79.36 / 84
p0 −667 ± 415.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −1755
Std Dev 1793
2
1
0
−1
−2
−3

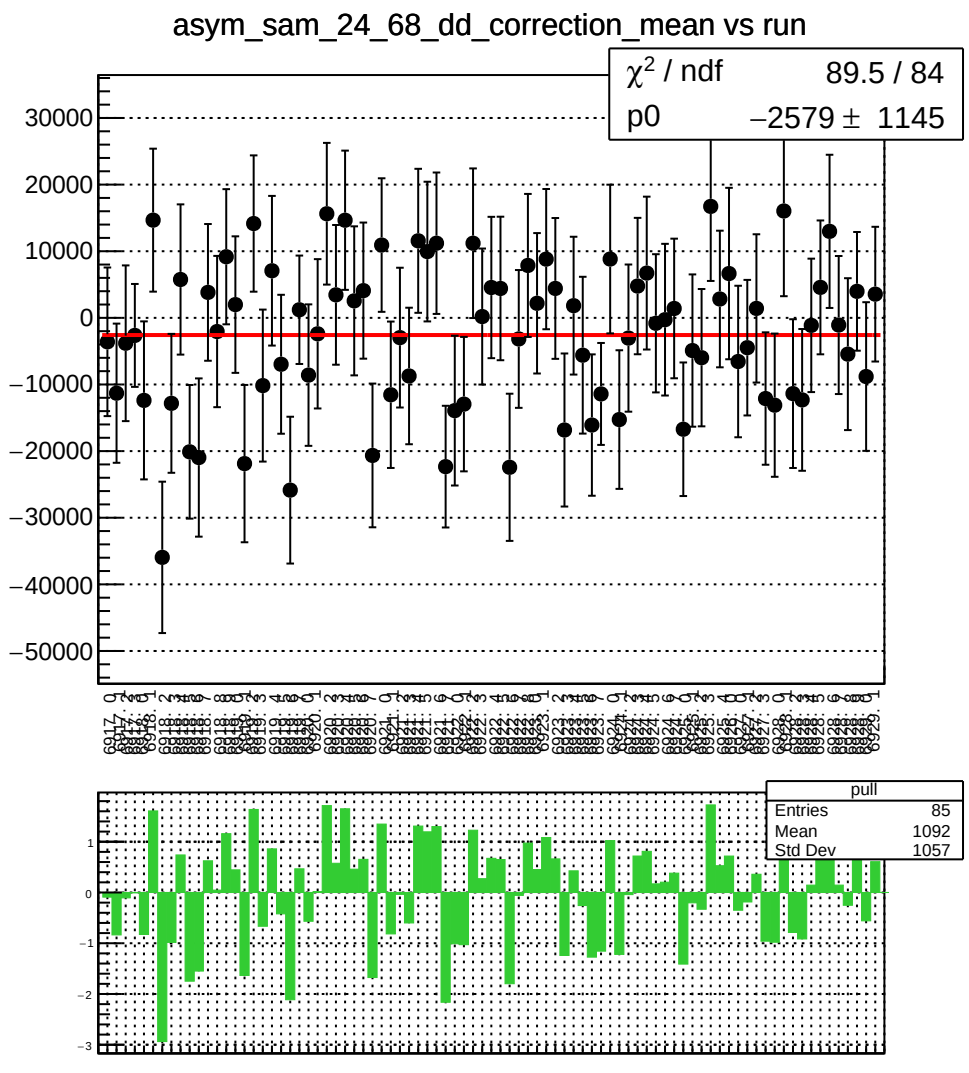

pull1D
Entries 85
Mean −0.001618
Std Dev 0.9662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

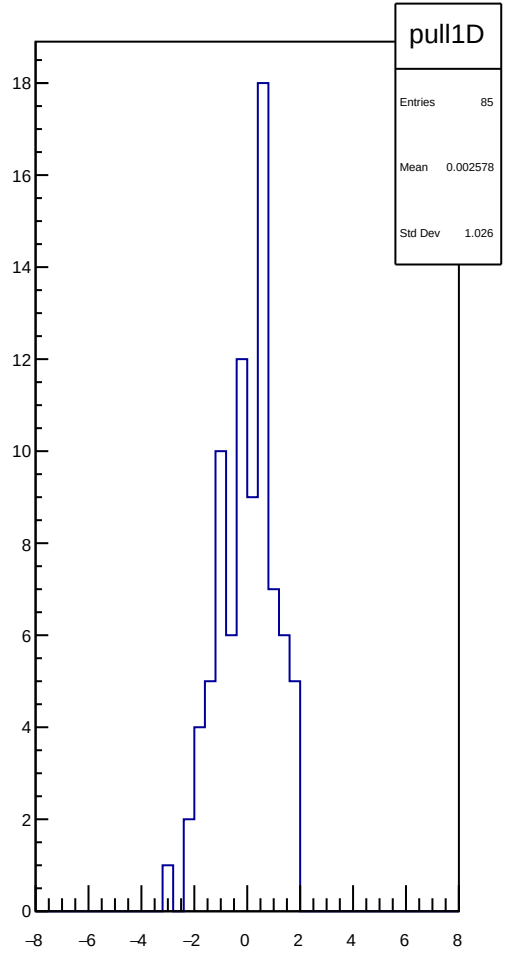

asym_sam_15_37_dd_rms vs run
χ² / ndf 4909 / 84
p0 370.4 ± 0.2938
440
420
400
380
360
340

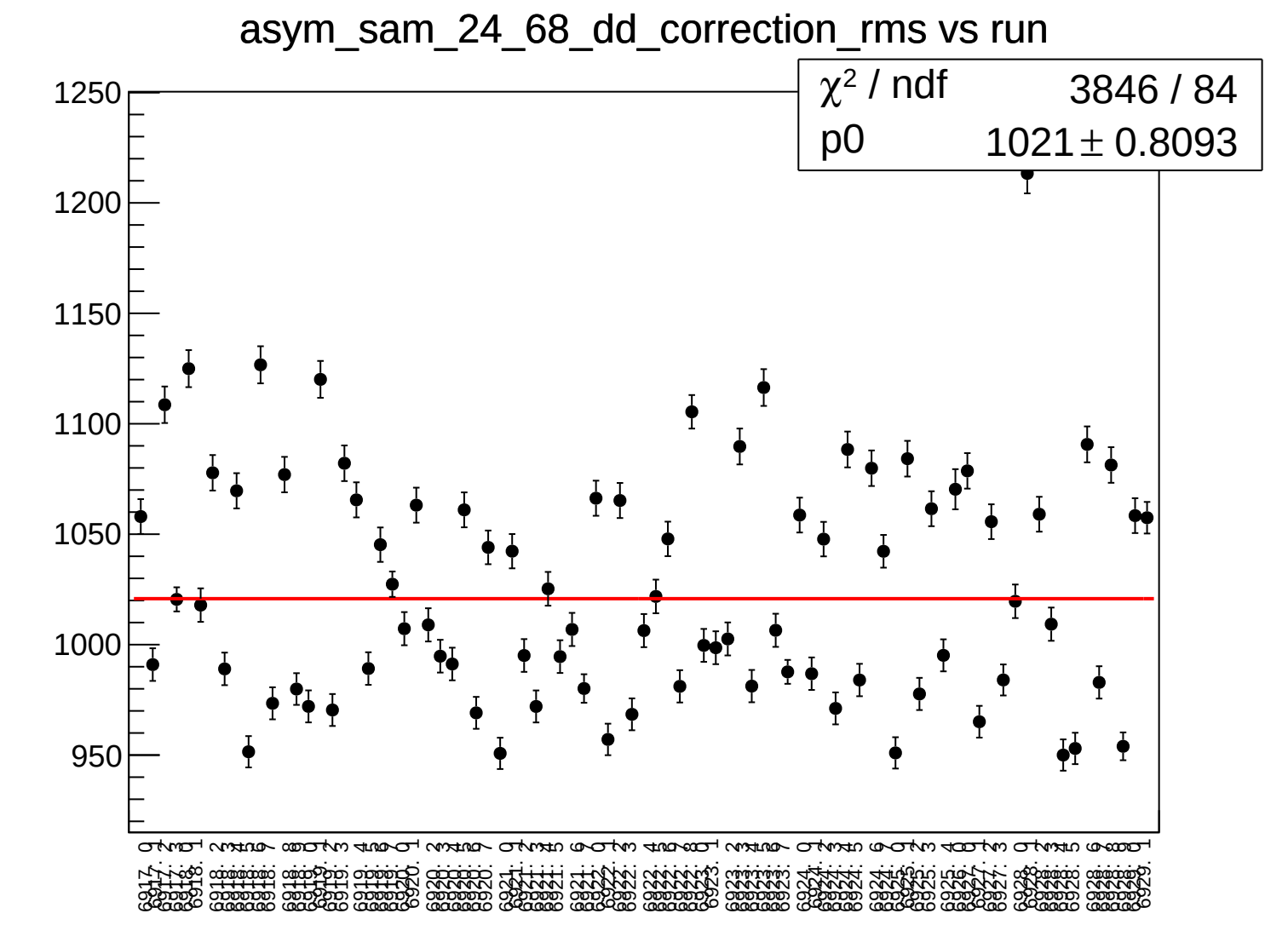

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 120.1 / 84
p0 143.4 ± 86.59
pull
Entries 85
Mean −5773
Std Dev 5821

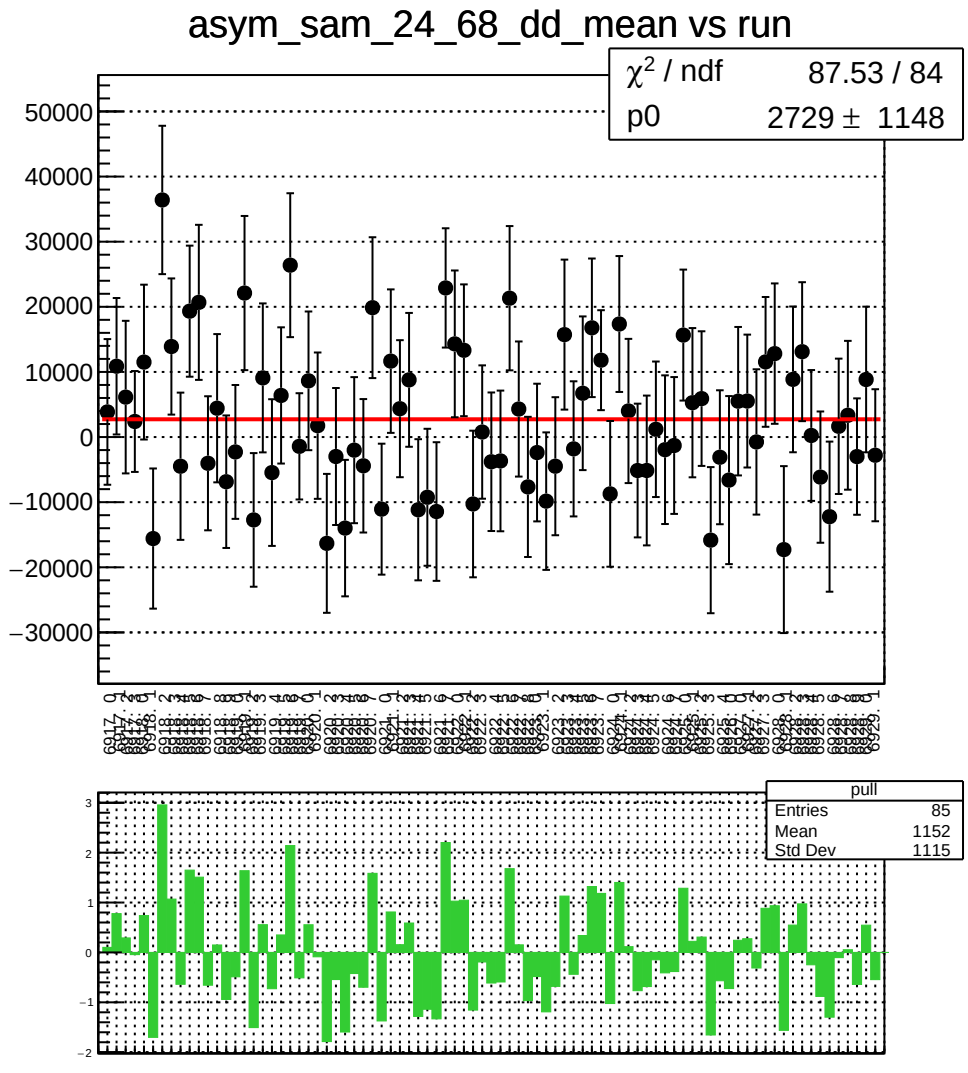

pull1D
Entries 85
Mean 0.0008798
Std Dev 1.189

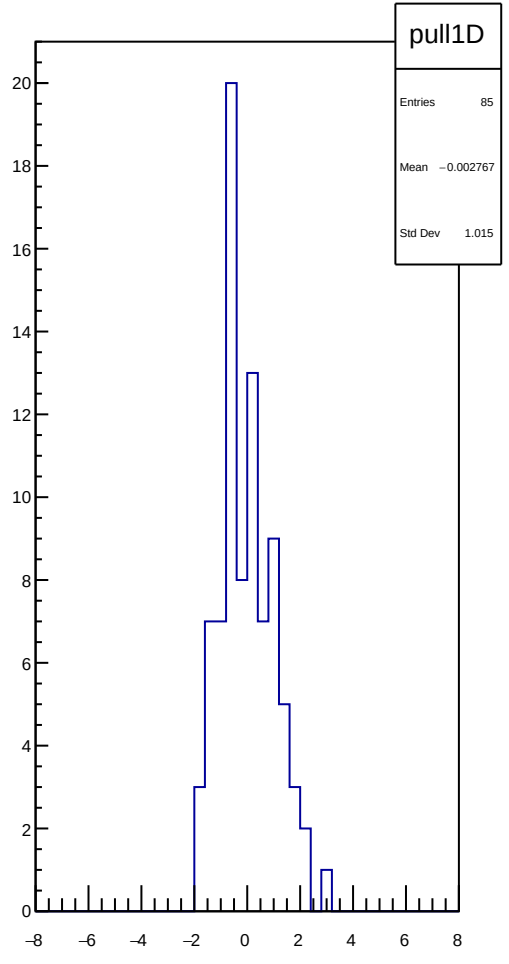

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 546.7 / 84
p0 77.31 ± 0.06123
82
80
78
76
74

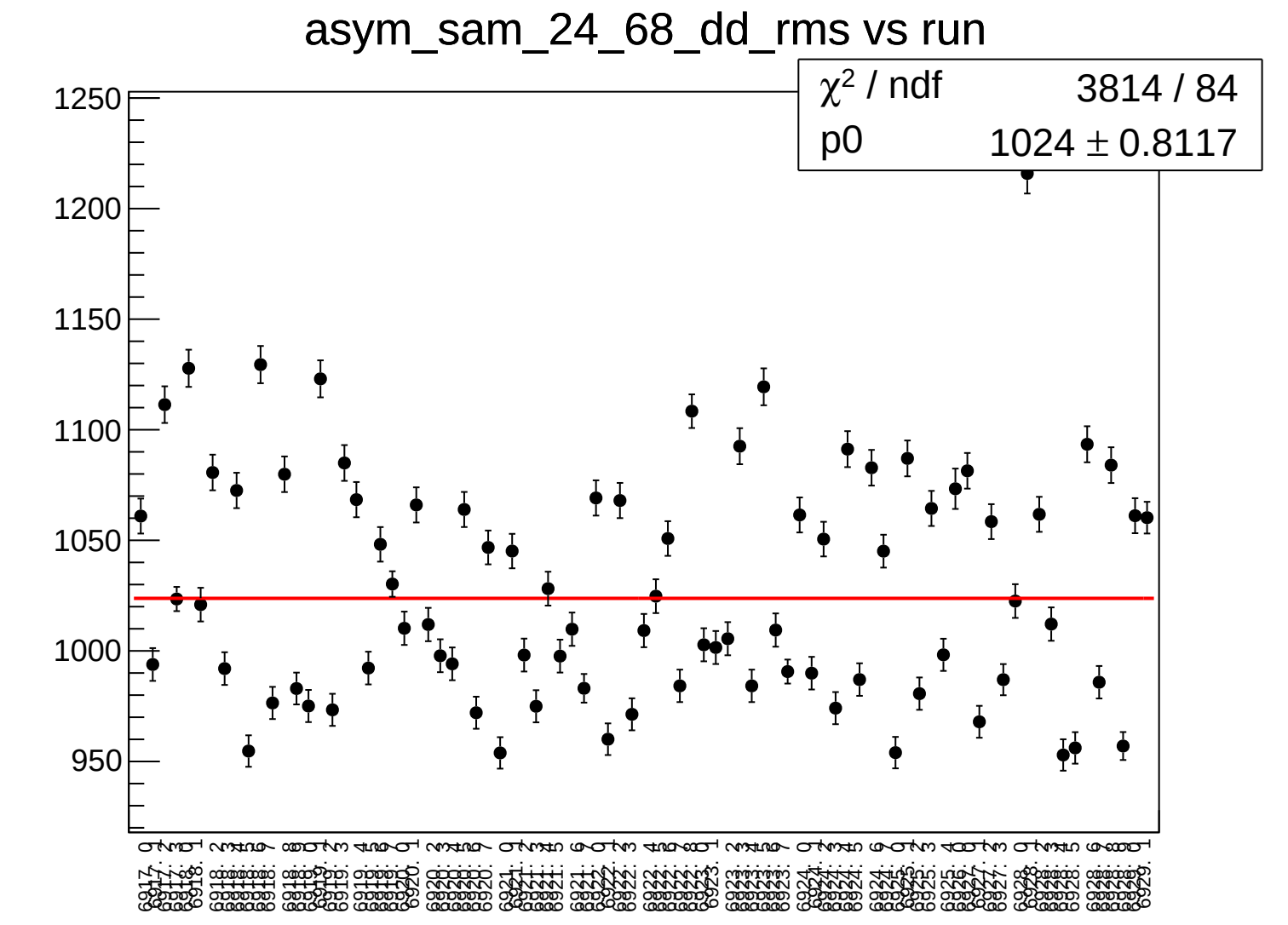

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 89.5 / 84
p0 −2579 ± 1145
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 85
Mean 1092
Std Dev 1057
1
0
−1
−2
−3

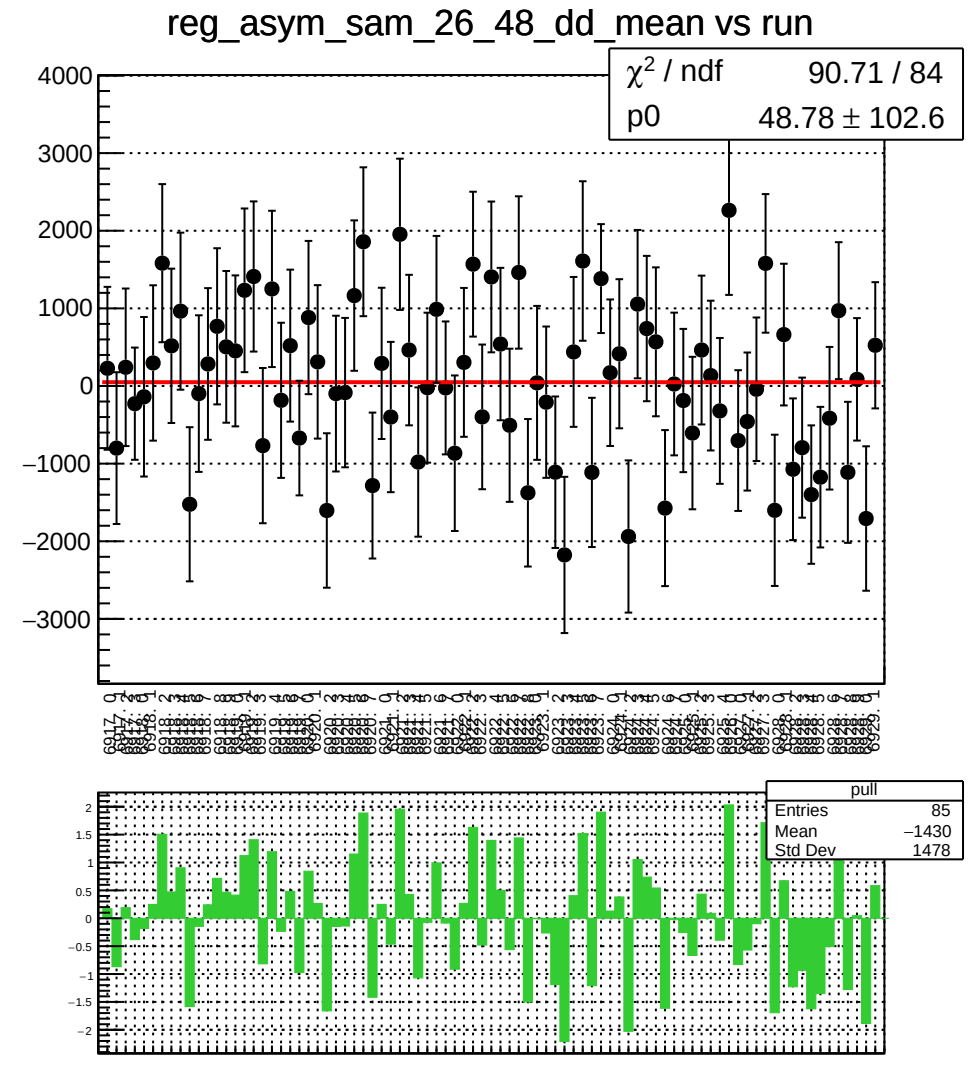

pull1D
Entries 85
Mean 0.002578
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

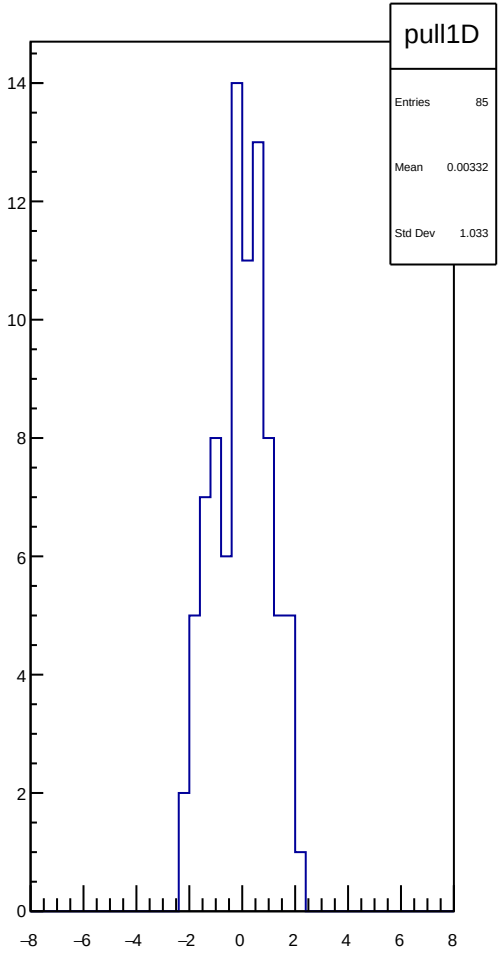

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3846 / 84
p0 1021 ± 0.8093
1250
1200
1150
1100
1050
1000
950

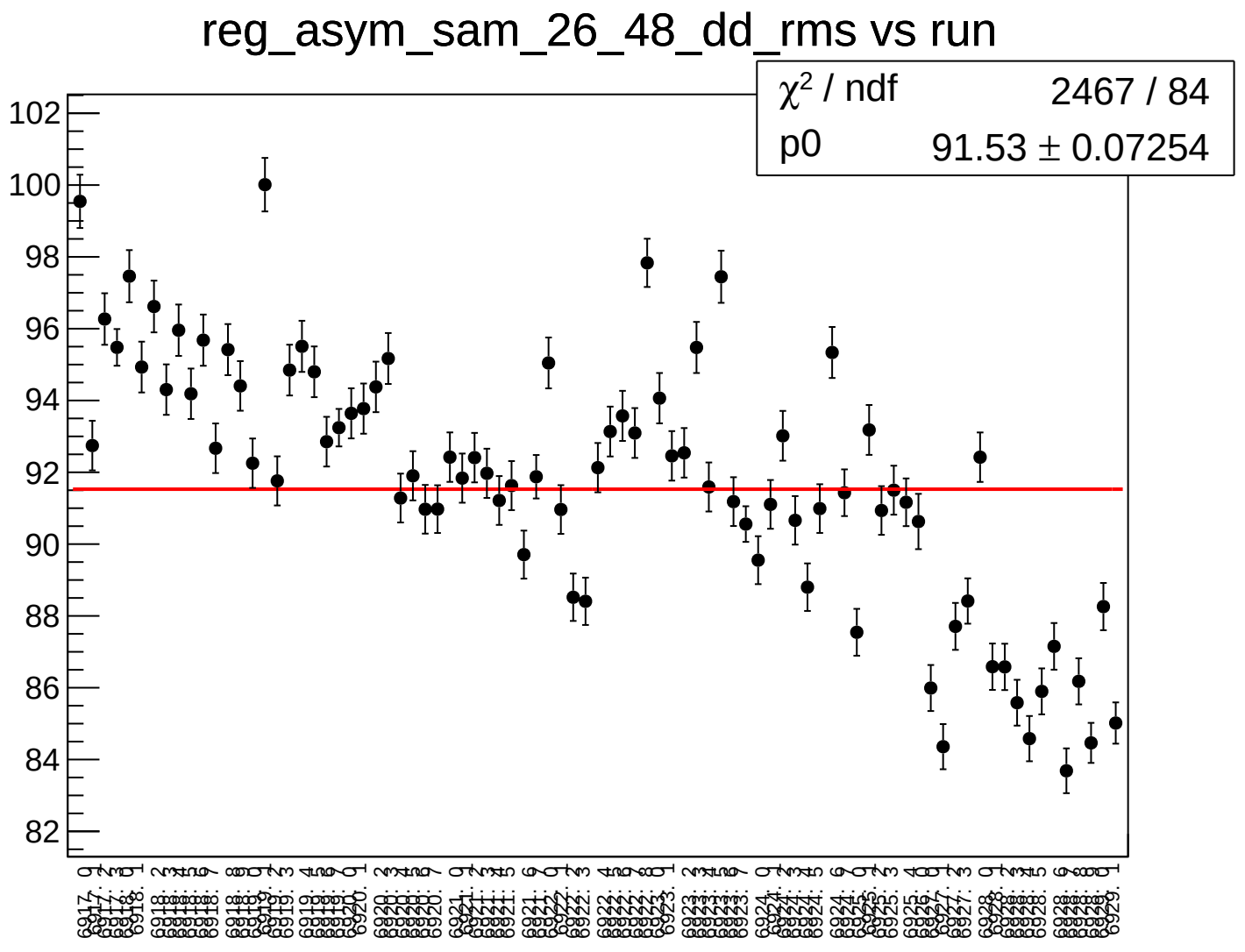

asym_sam_24_68_dd_mean vs run
χ² / ndf 87.53 / 84
p0 2729 ± 1148
pull
Entries 85
Mean 1152
Std Dev 1115

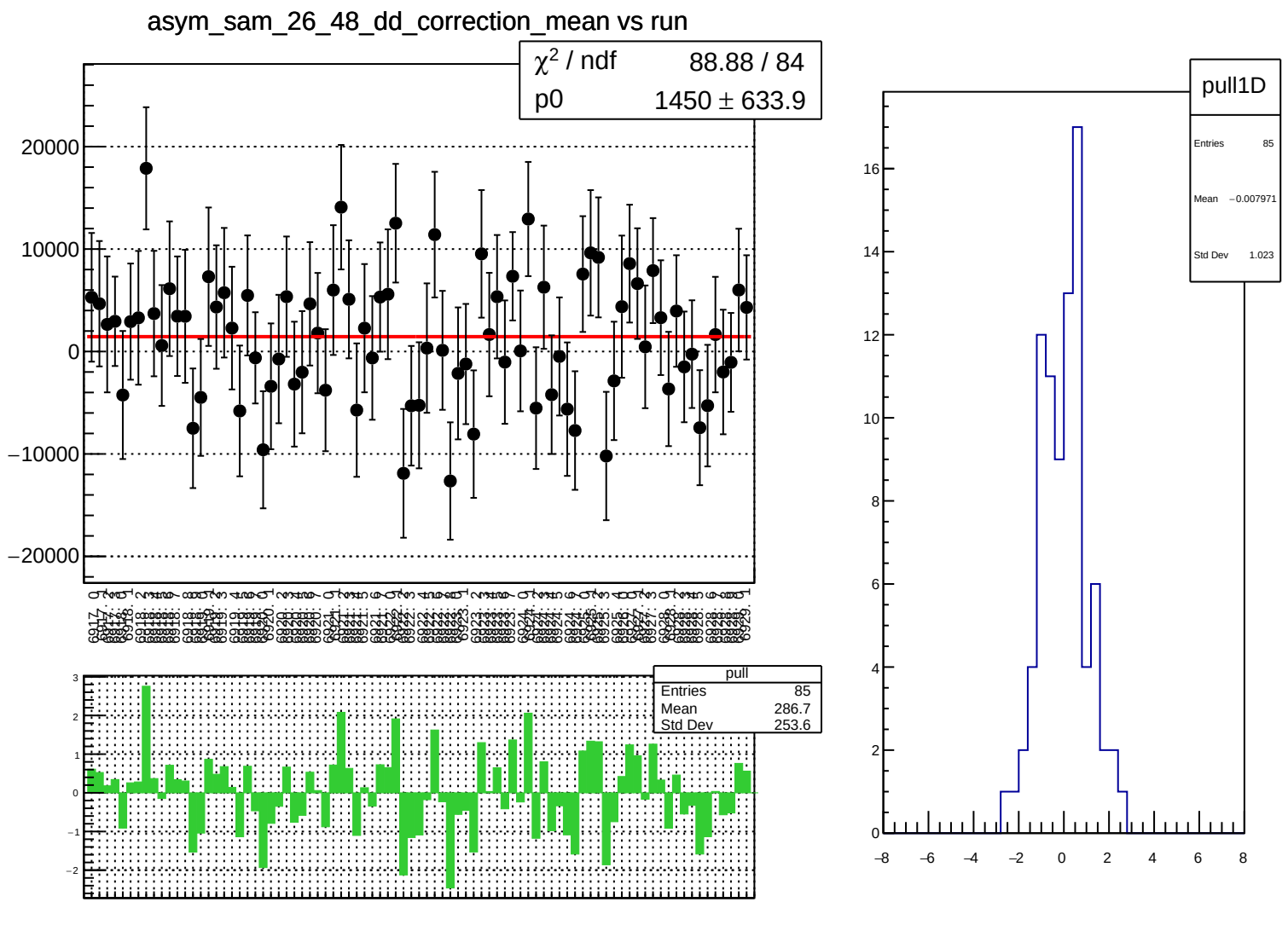

pull1D
Entries 85
Mean −0.002767
Std Dev 1.015

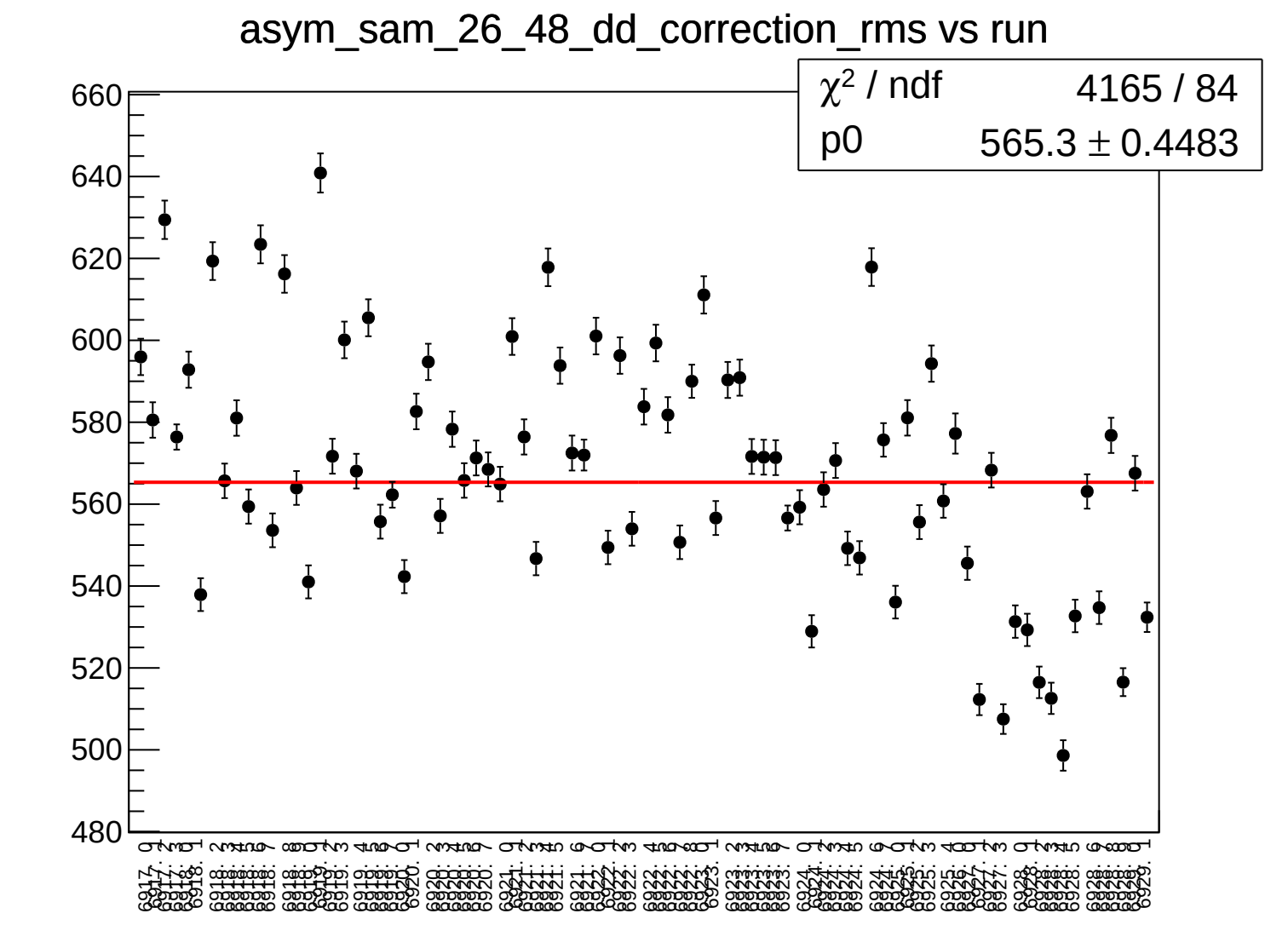

asym_sam_24_68_dd_rms vs run
χ² / ndf 3814 / 84
p0 1024 ± 0.8117
1250
1200
1150
1100
1050
1000
950

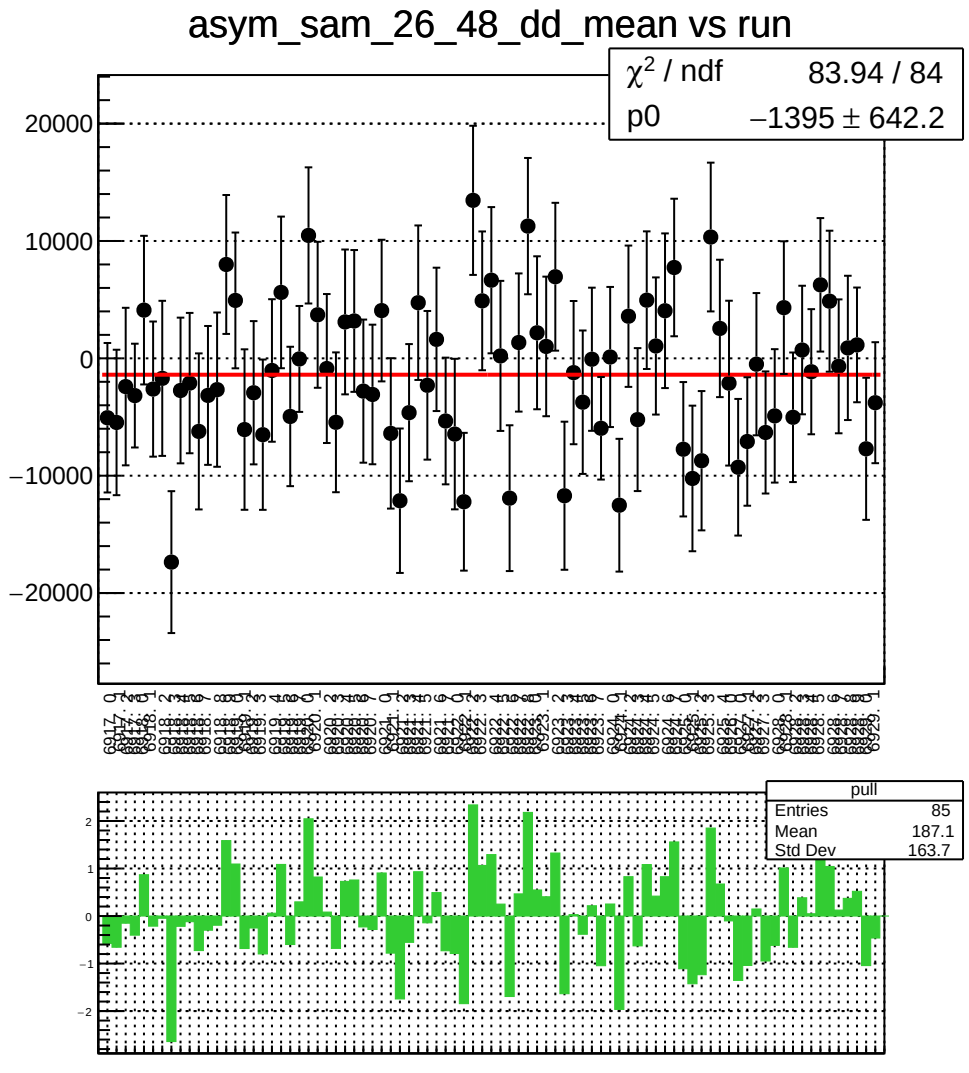

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.71 / 84
p0 48.78 ± 102.6
pull
Entries 85
Mean −1430
Std Dev 1478

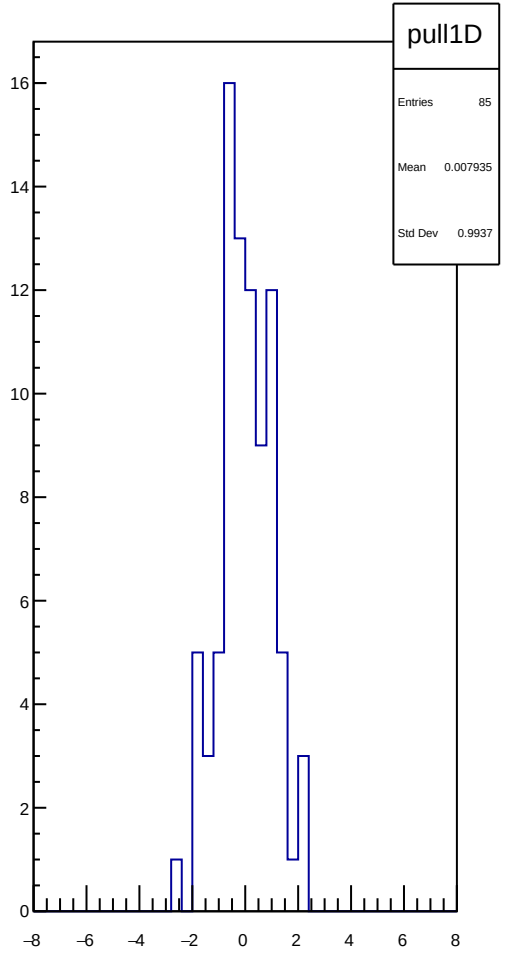

pull1D
Entries 85
Mean 0.00332
Std Dev 1.033

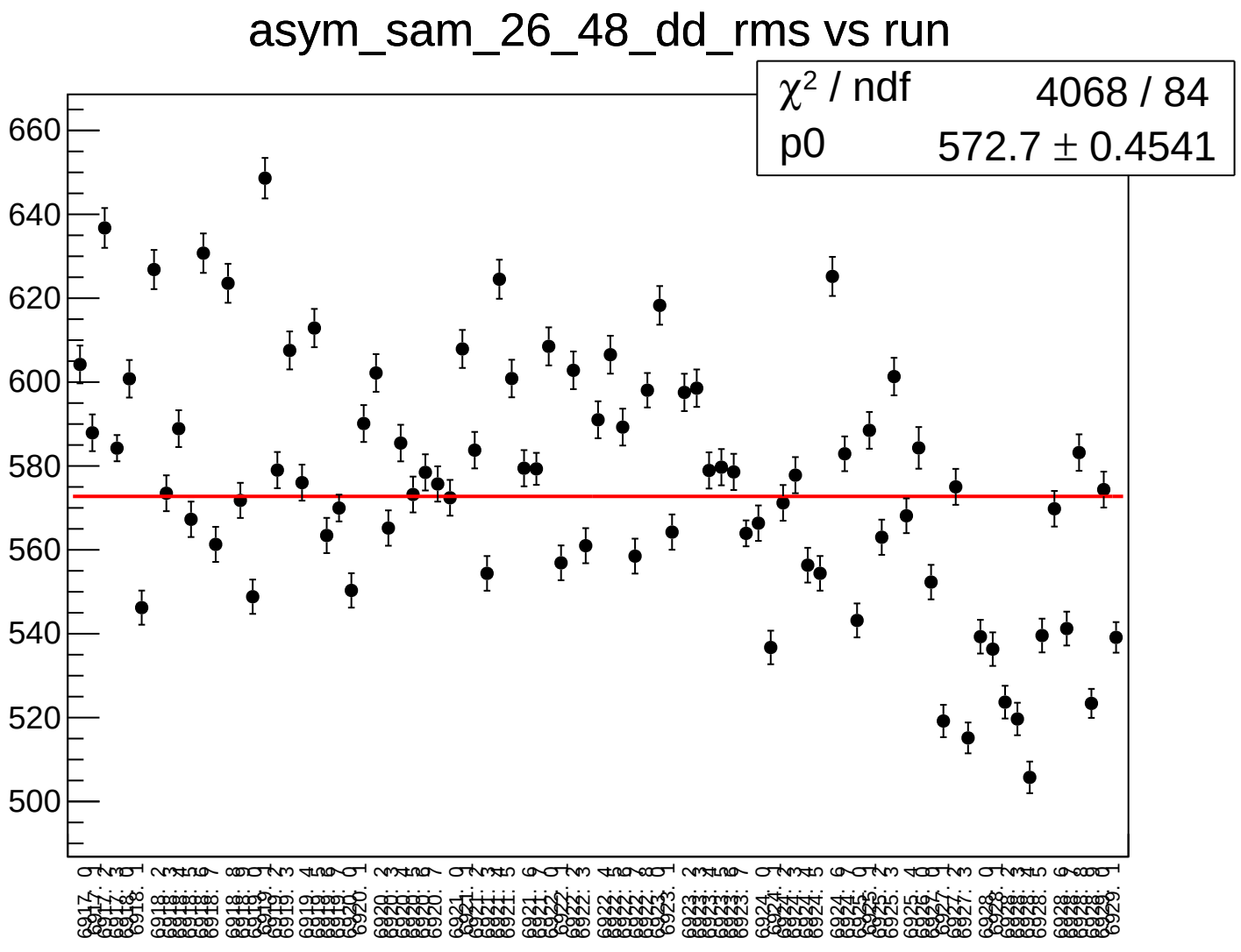

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2467 / 84
p0 91.53 ± 0.07254
102
100
98
96
94
92
90
88
86
84
82

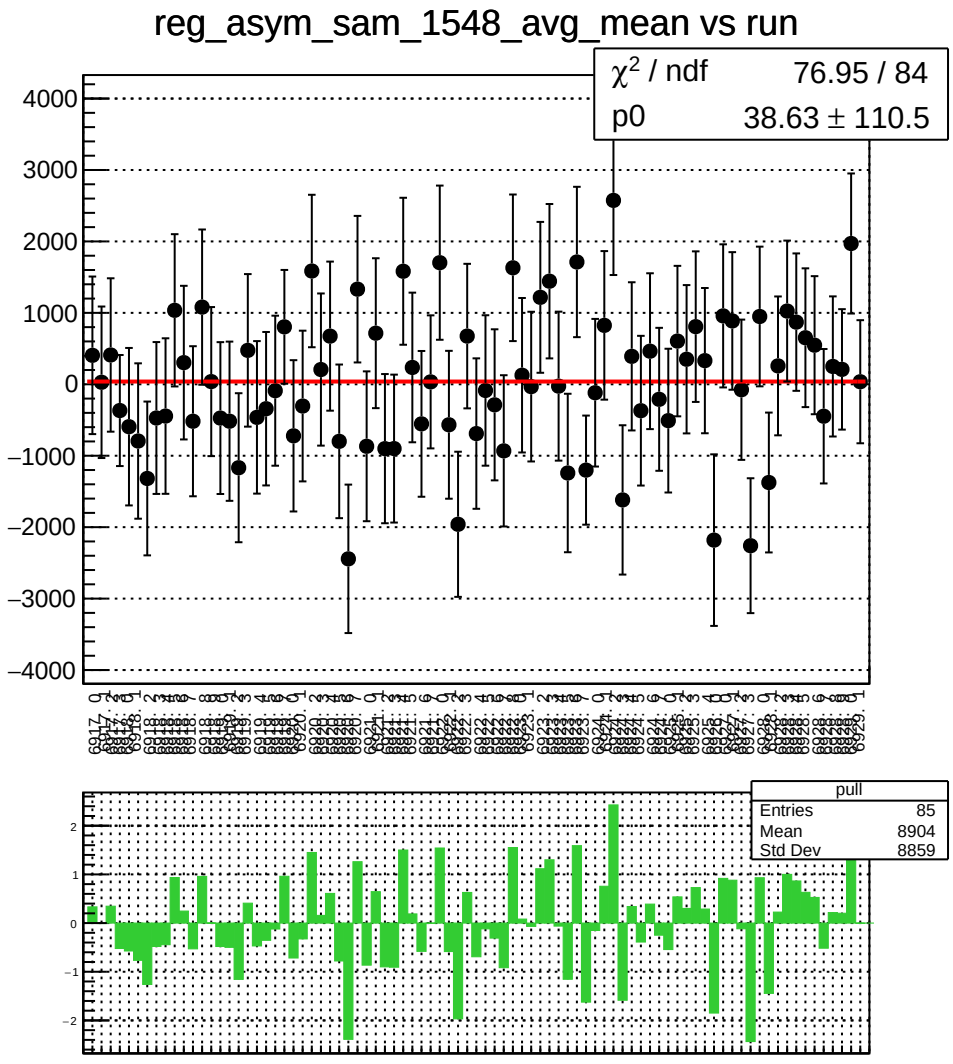

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 88.88 / 84
p0 1450 ± 633.9
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 286.7
Std Dev 253.6
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.007971
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

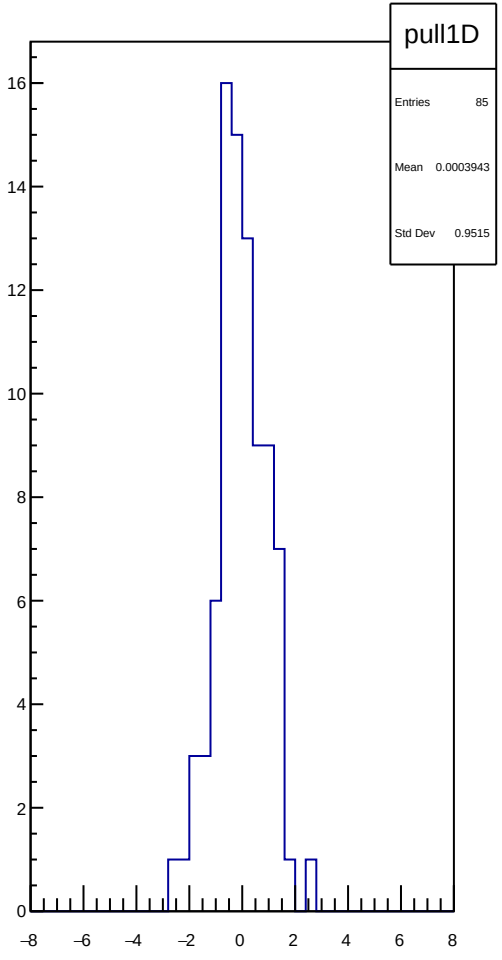

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 4165 / 84
p0 565.3 ± 0.4483
660
640
620
600
580
560
540
520
500
480

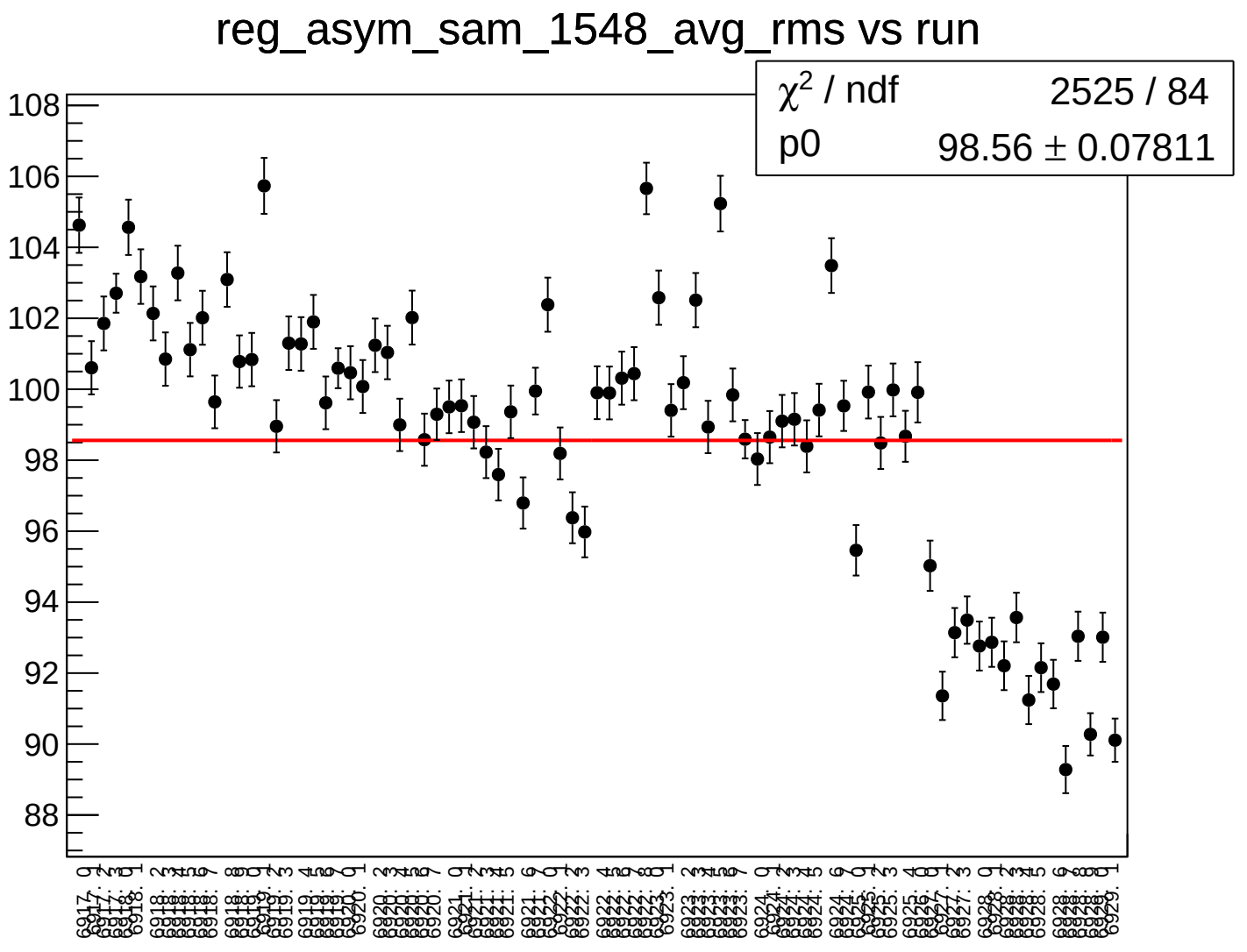

asym_sam_26_48_dd_mean vs run
χ² / ndf 83.94 / 84
p0 −1395 ± 642.2
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 187.1
Std Dev 163.7
2
1
0
−1
−2

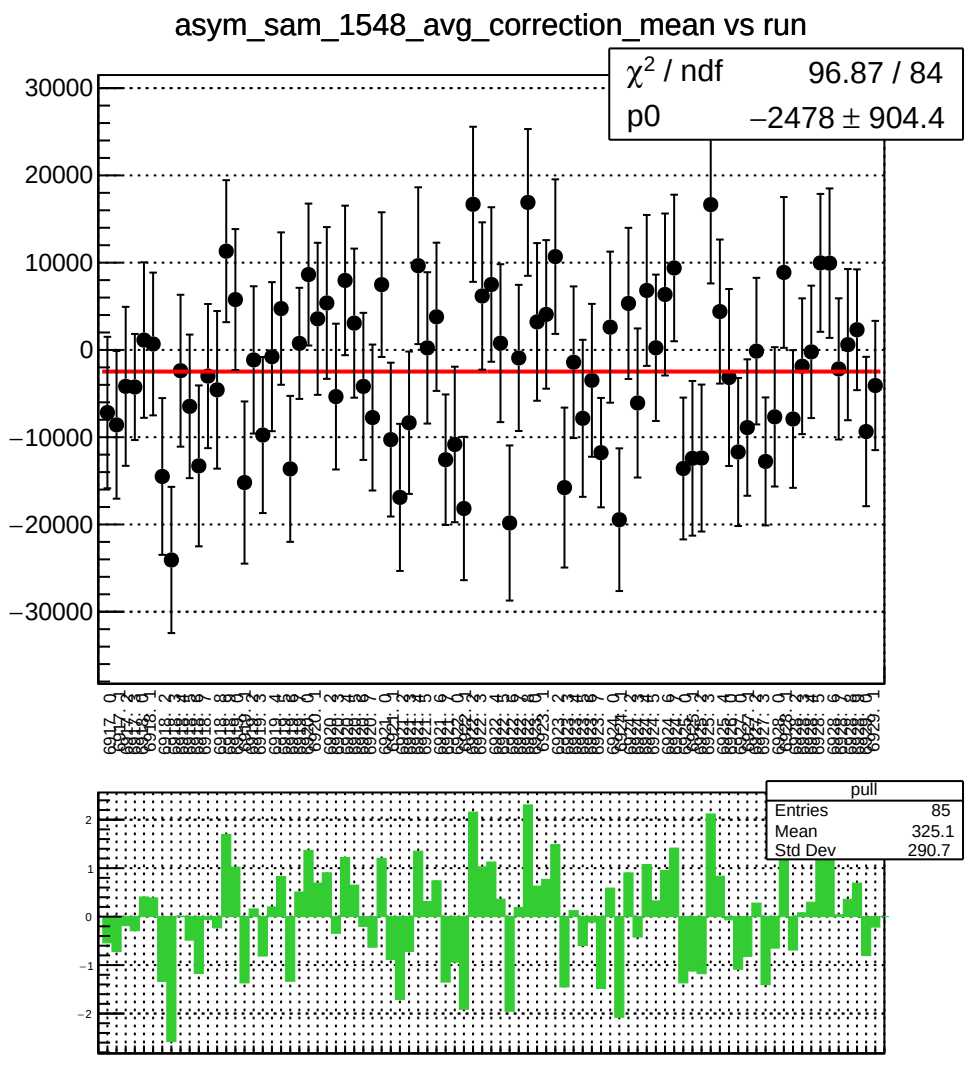

pull1D
Entries 85
Mean 0.007935
Std Dev 0.9937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

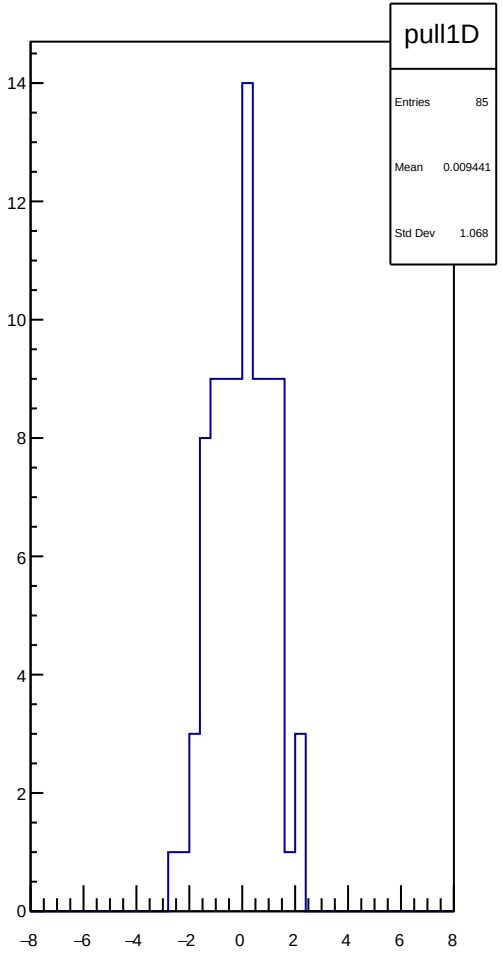

asym_sam_26_48_dd_rms vs run
χ² / ndf 4068 / 84
p0 572.7 ± 0.4541
660
640
620
600
580
560
540
520
500

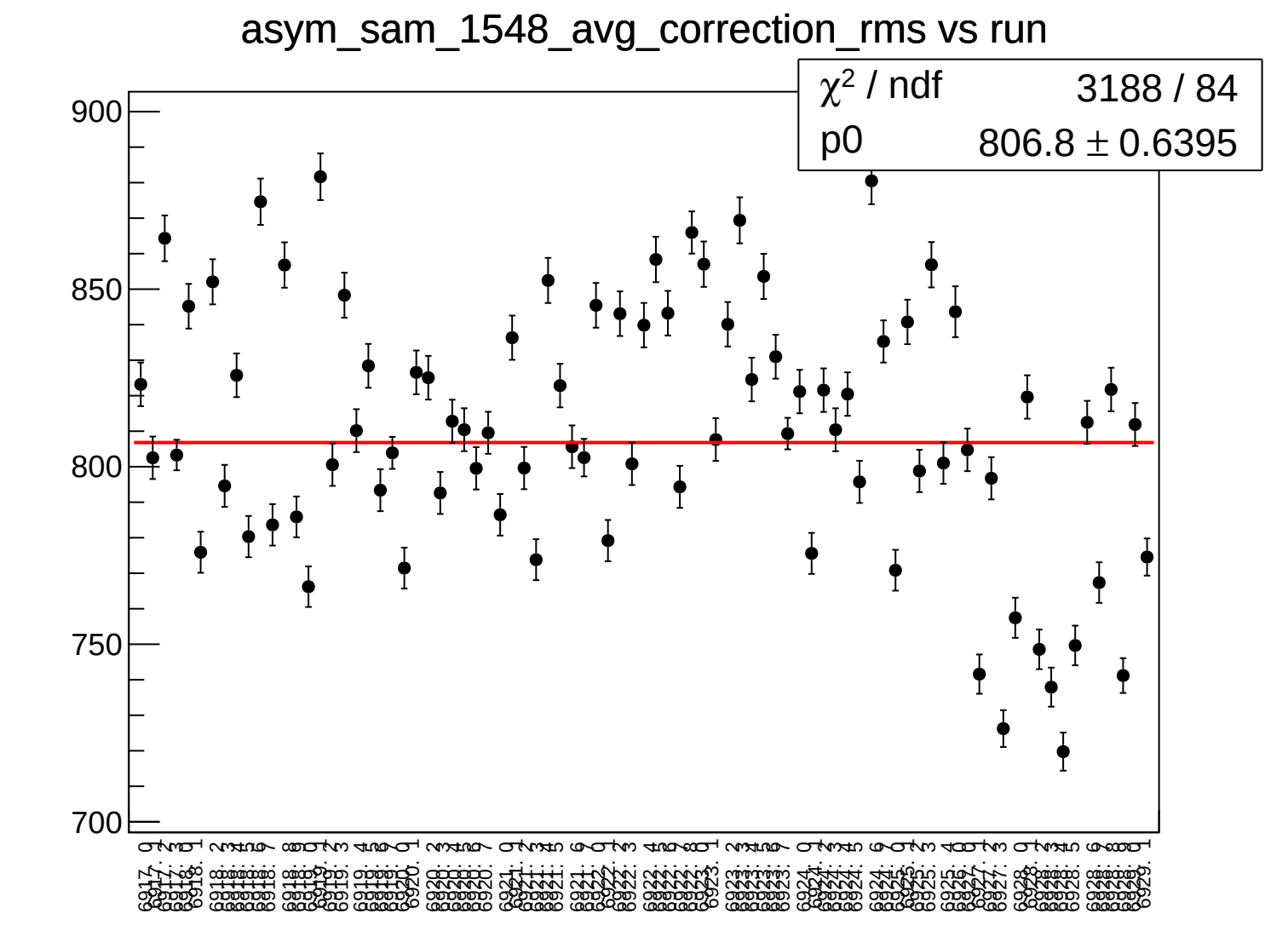

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 76.95 / 84
p0 38.63 ± 110.5
pull
Entries 85
Mean 8904
Std Dev 8859

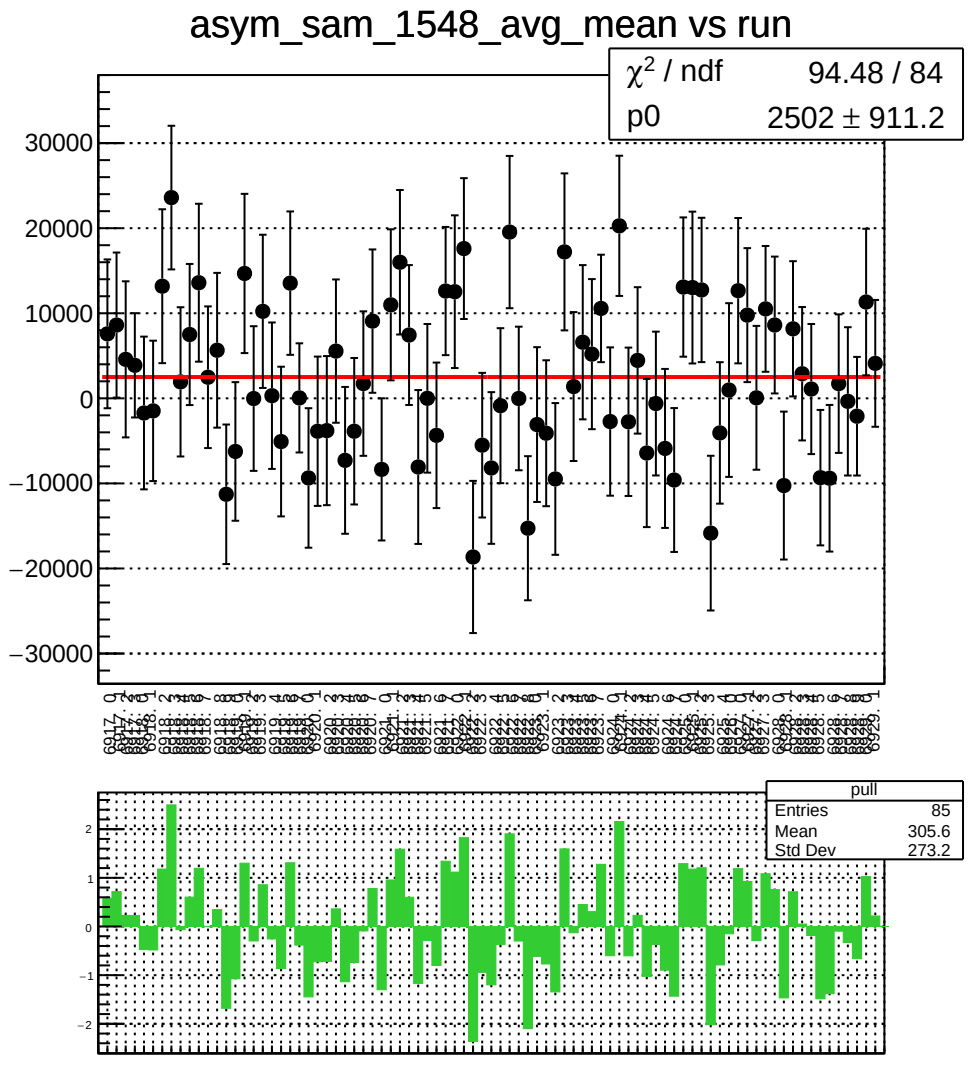

pull1D
Entries 85
Mean 0.0003943
Std Dev 0.9515

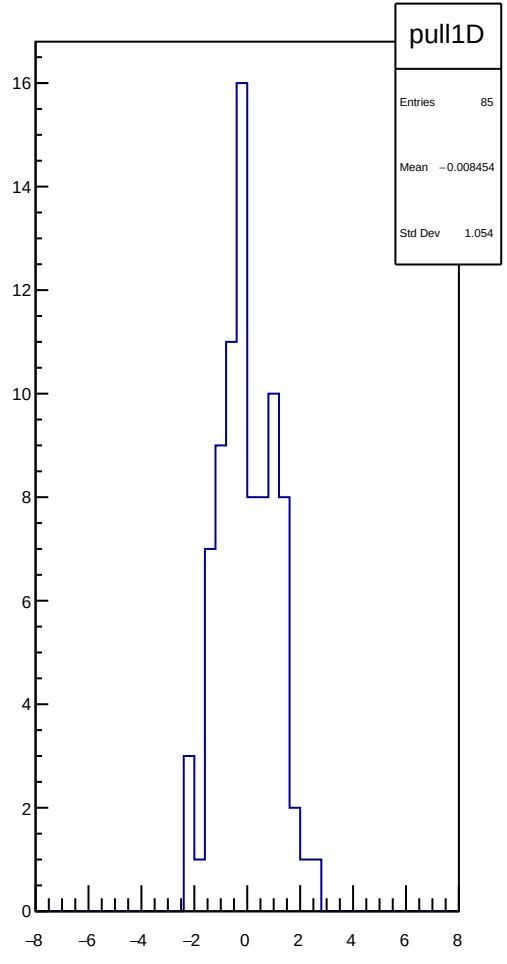

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2525 / 84
p0 98.56 ± 0.07811
108
106
104
102
100
98
96
94
92
90
88

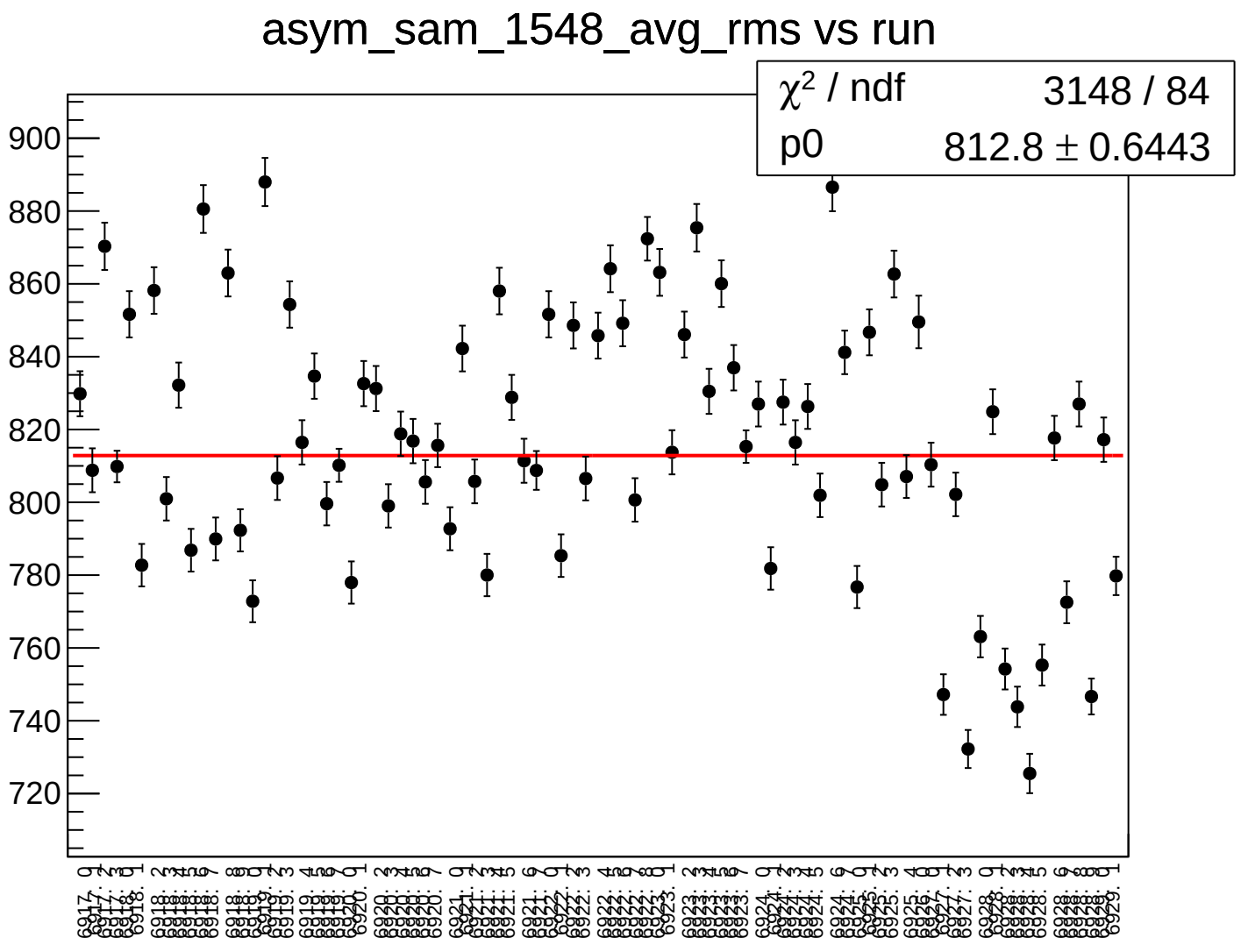

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 96.87 / 84
p0 −2478 ± 904.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 325.1
Std Dev 290.7
2
1
0
−1
−2

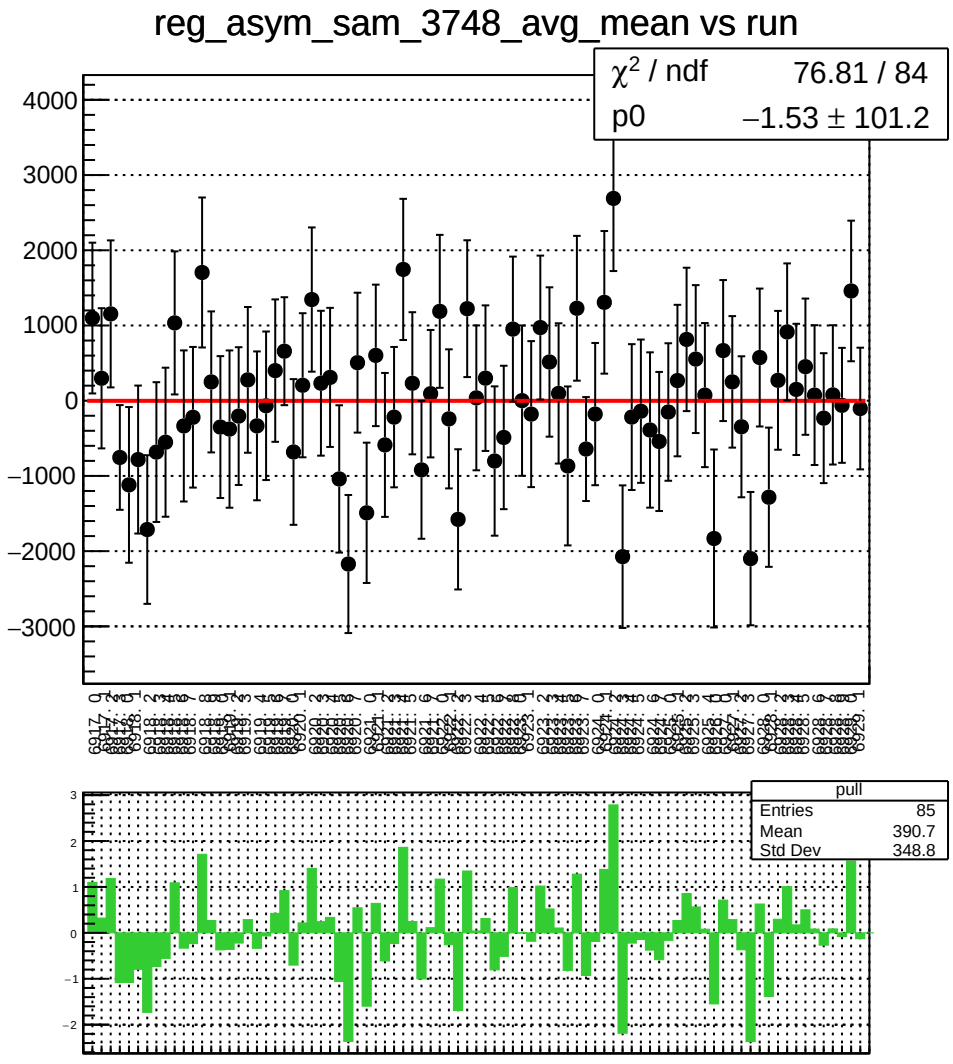

pull1D
Entries 85
Mean 0.009441
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

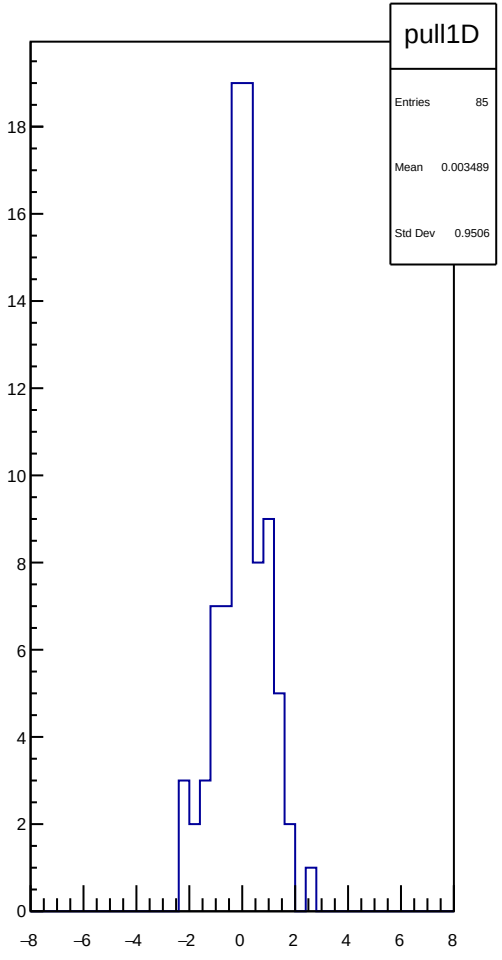

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 3188 / 84
p0 806.8 ± 0.6395
900
850
800
750
700

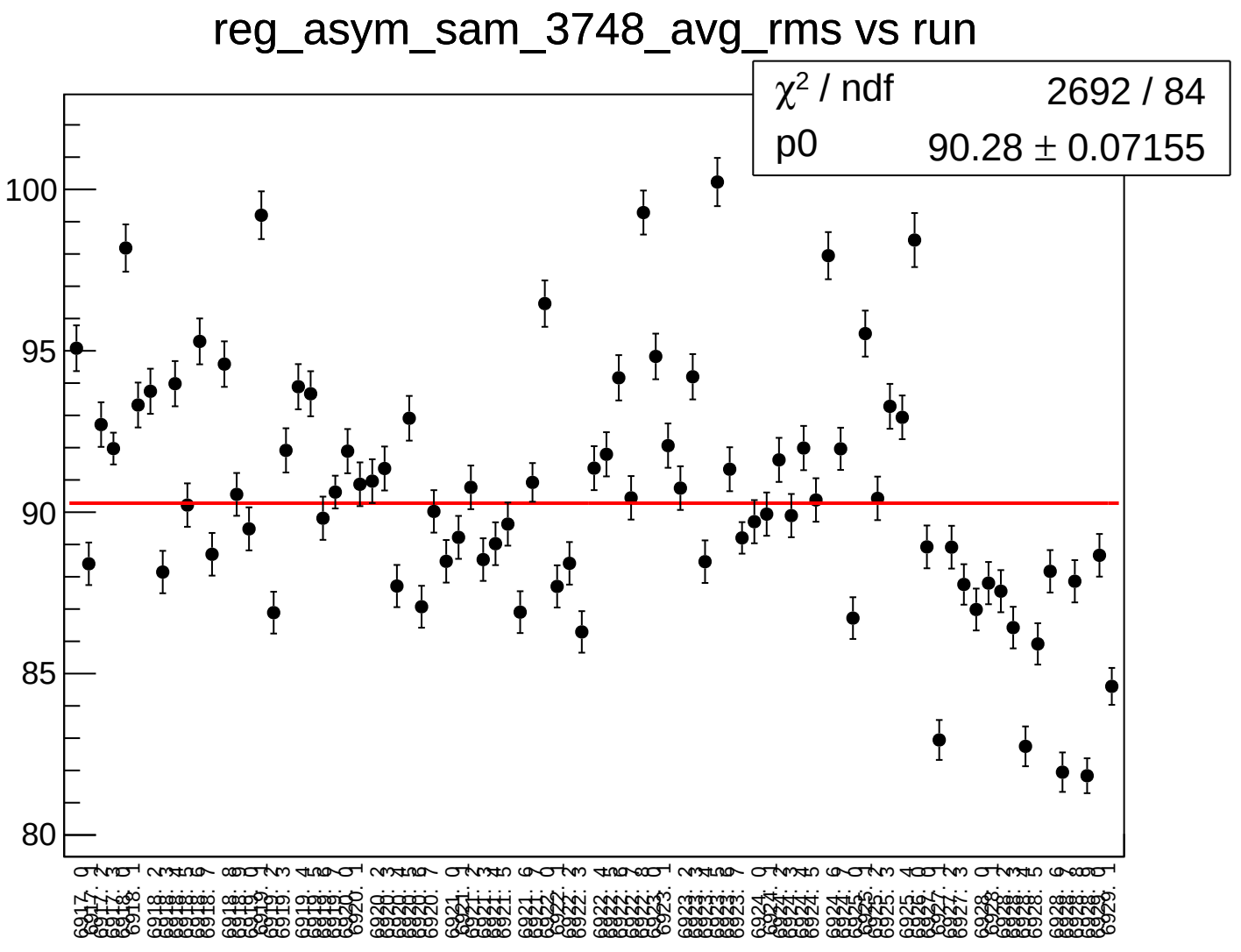

asym_sam_1548_avg_mean vs run
χ² / ndf 94.48 / 84
p0 2502 ± 911.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 305.6
Std Dev 273.2
2
1
0
−1
−2

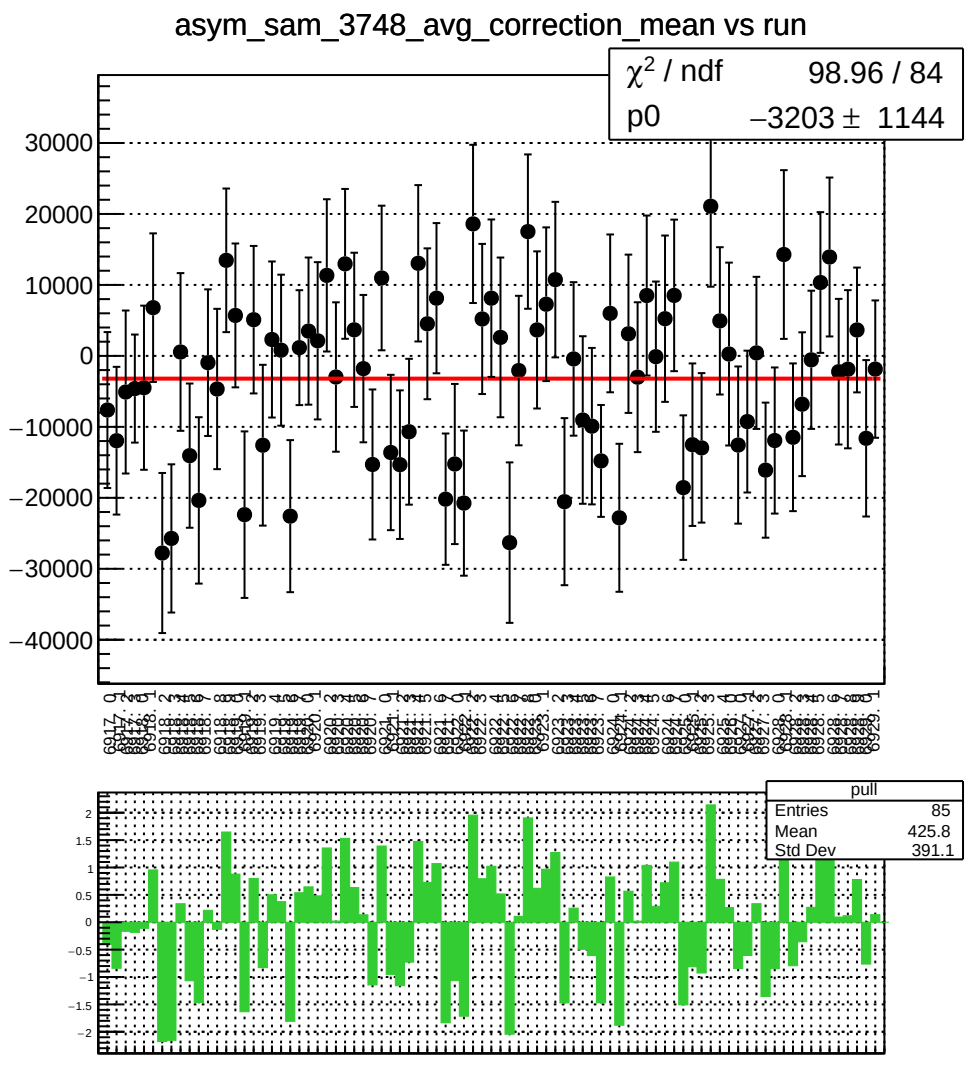

pull1D
Entries 85
Mean −0.008454
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

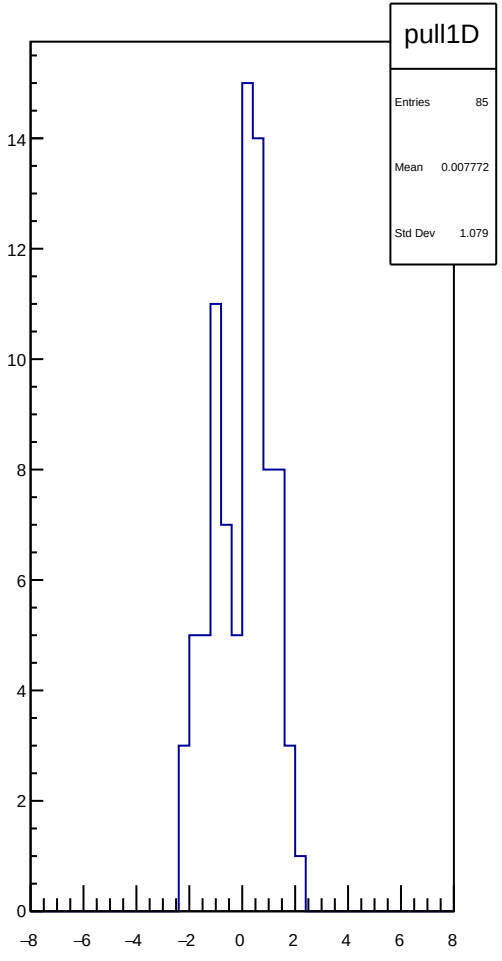

asym_sam_1548_avg_rms vs run
χ^2 / ndf 3148 / 84
p0 812.8 ± 0.6443
900
880
860
840
820
800
780
760
740
720

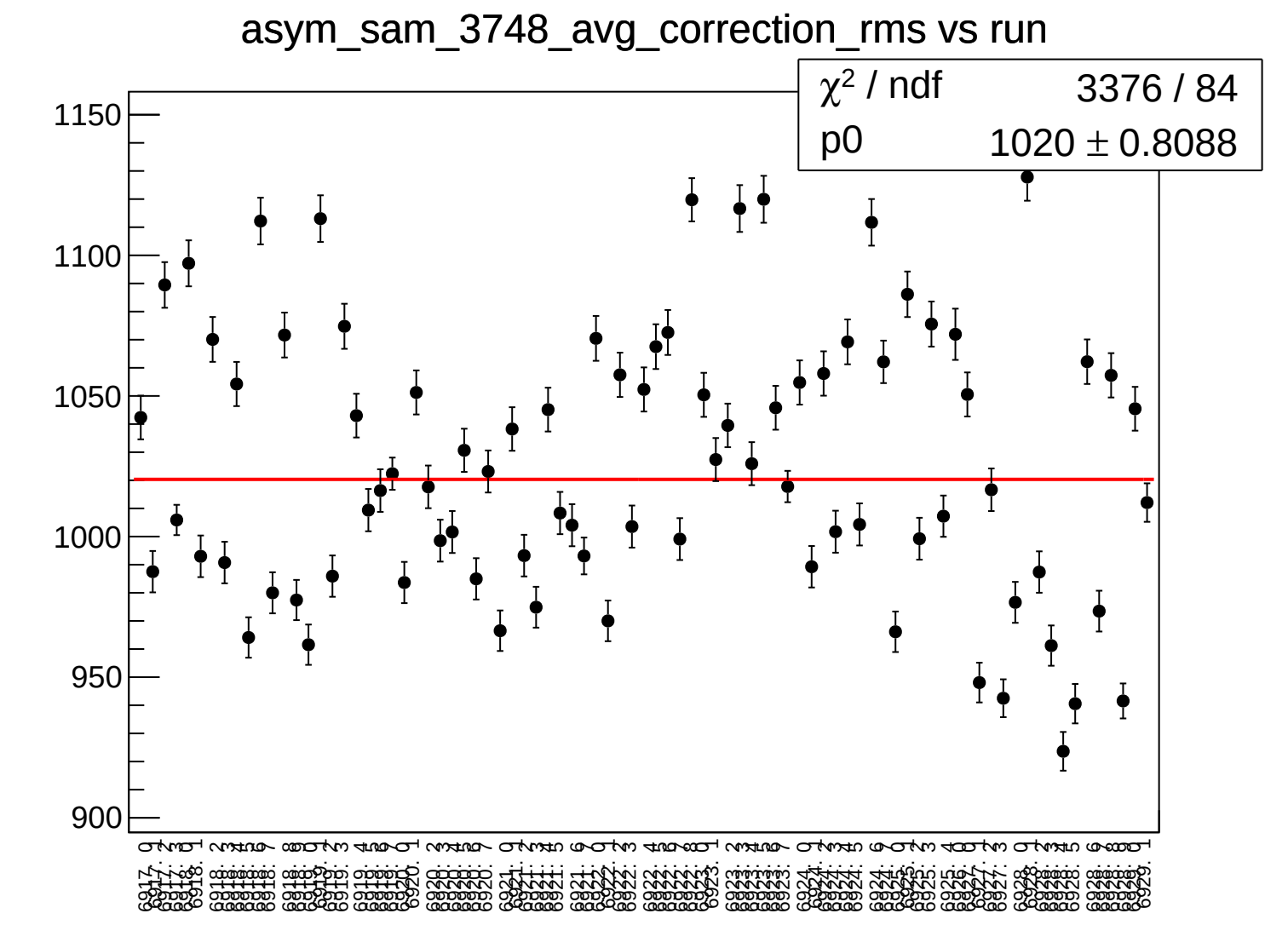

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 76.81 / 84
p0 −1.53 ± 101.2
pull
Entries 85
Mean 390.7
Std Dev 348.8

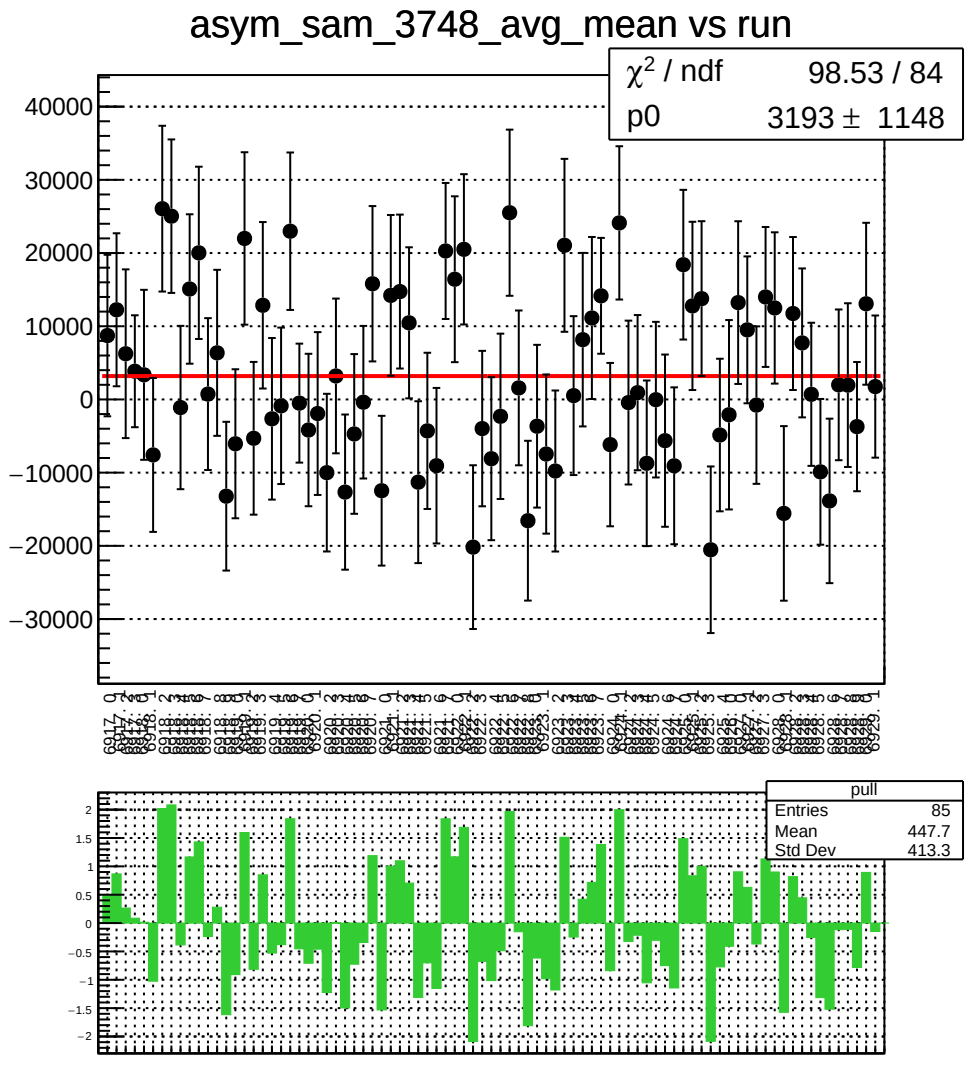

pull1D
Entries 85
Mean 0.003489
Std Dev 0.9506

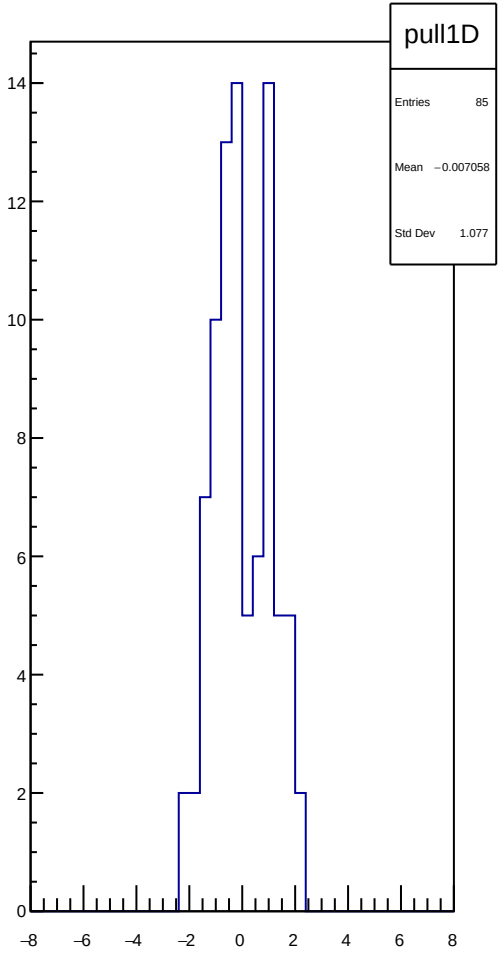

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2692 / 84
p0 90.28 ± 0.07155
100
95
90
85
80

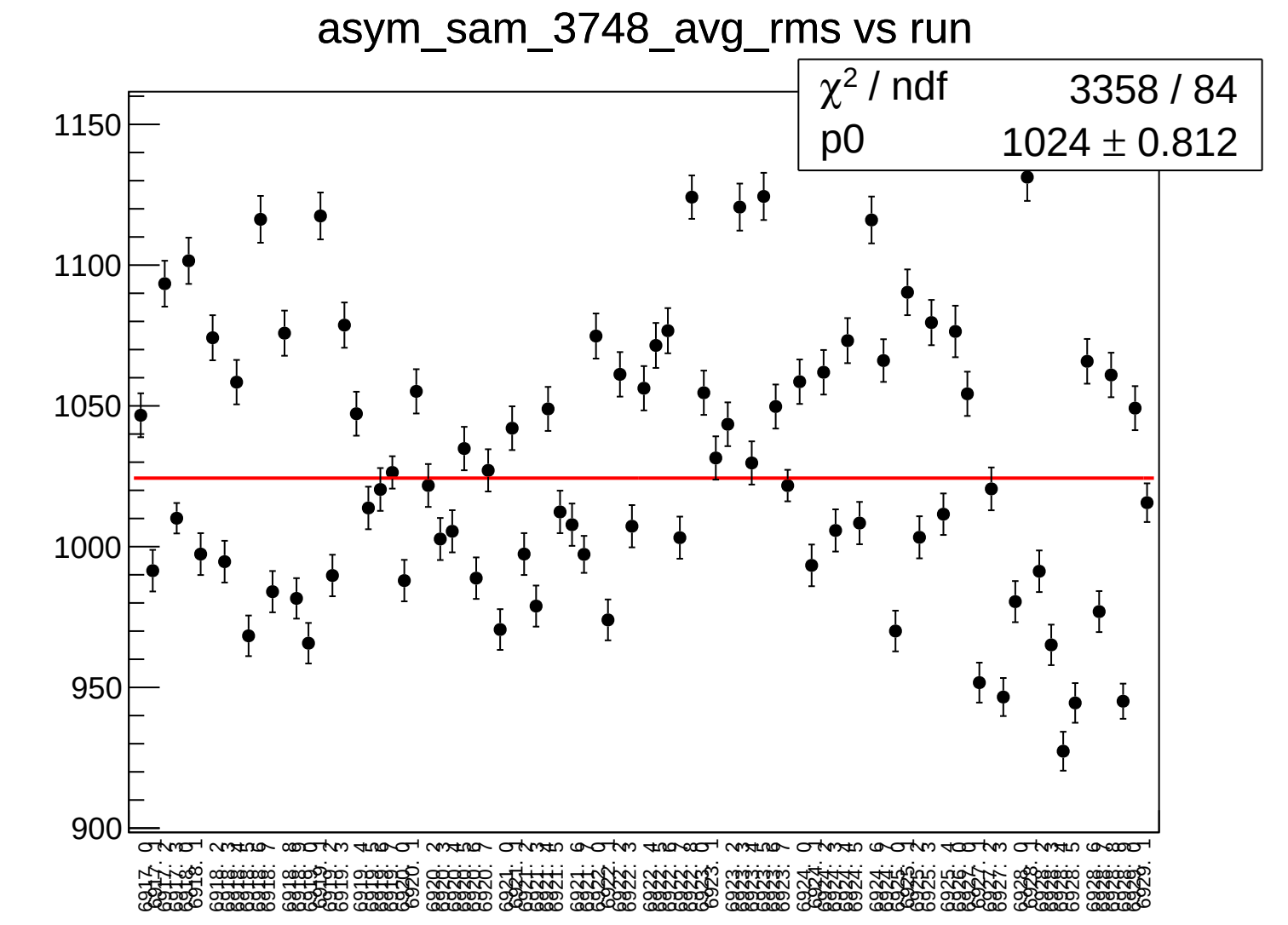

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 98.96 / 84
p0 −3203 ± 1144
pull
Entries 85
Mean 425.8
Std Dev 391.1

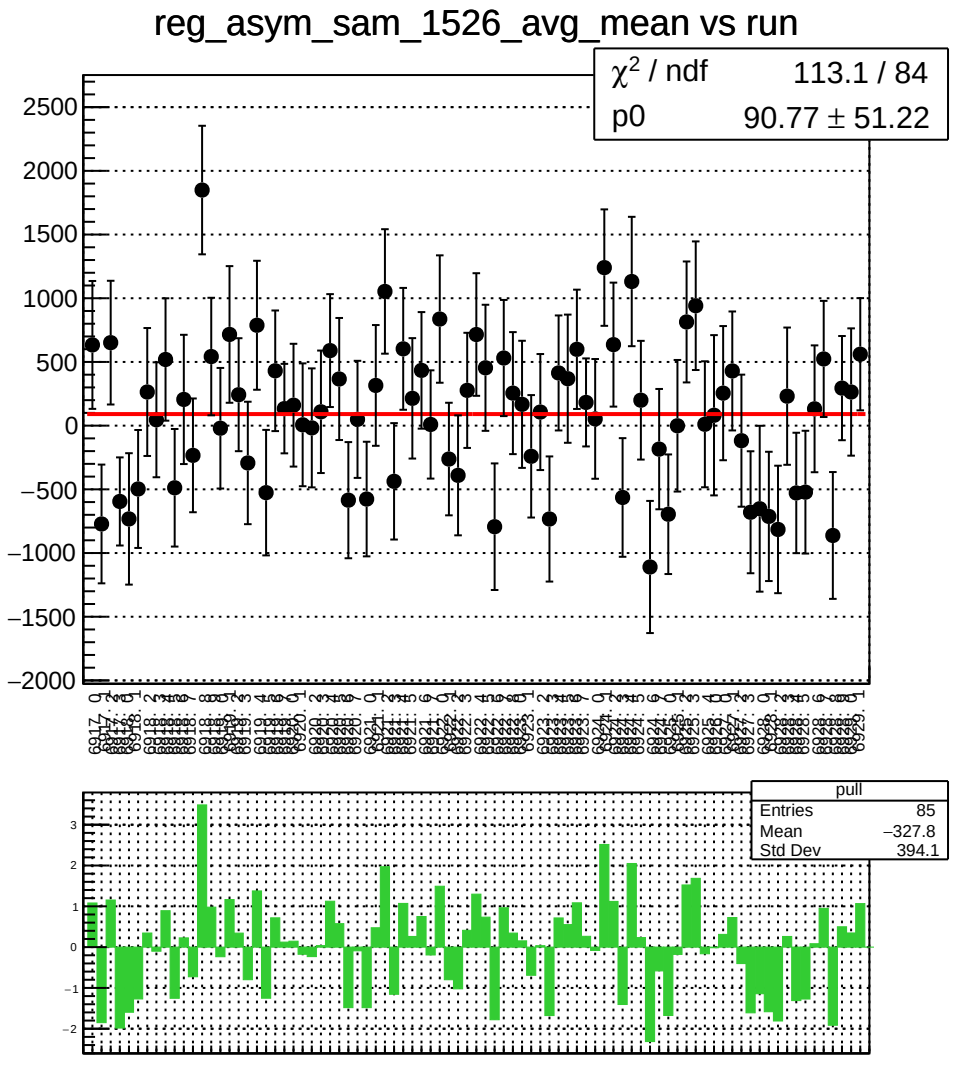

pull1D
Entries 85
Mean 0.007772
Std Dev 1.079

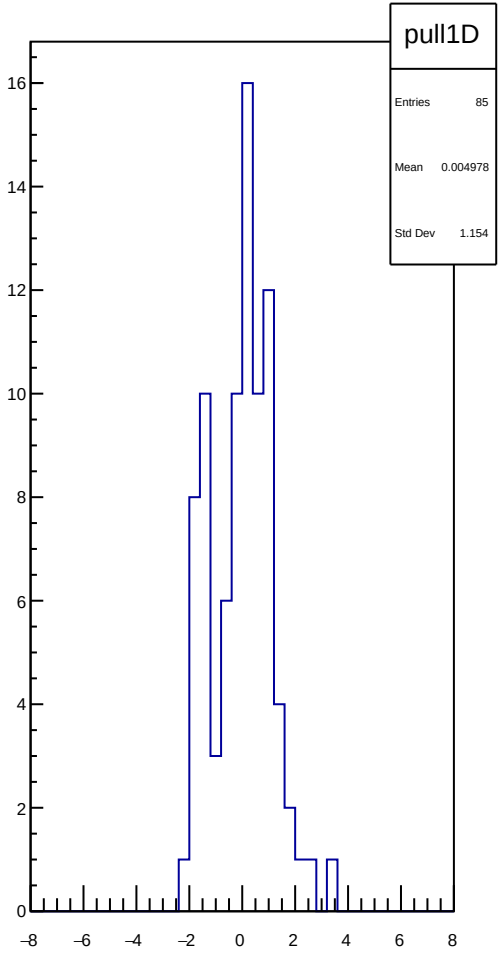

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 3376 / 84
p0 1020 ± 0.8088
1150
1100
1050
1000
950
900

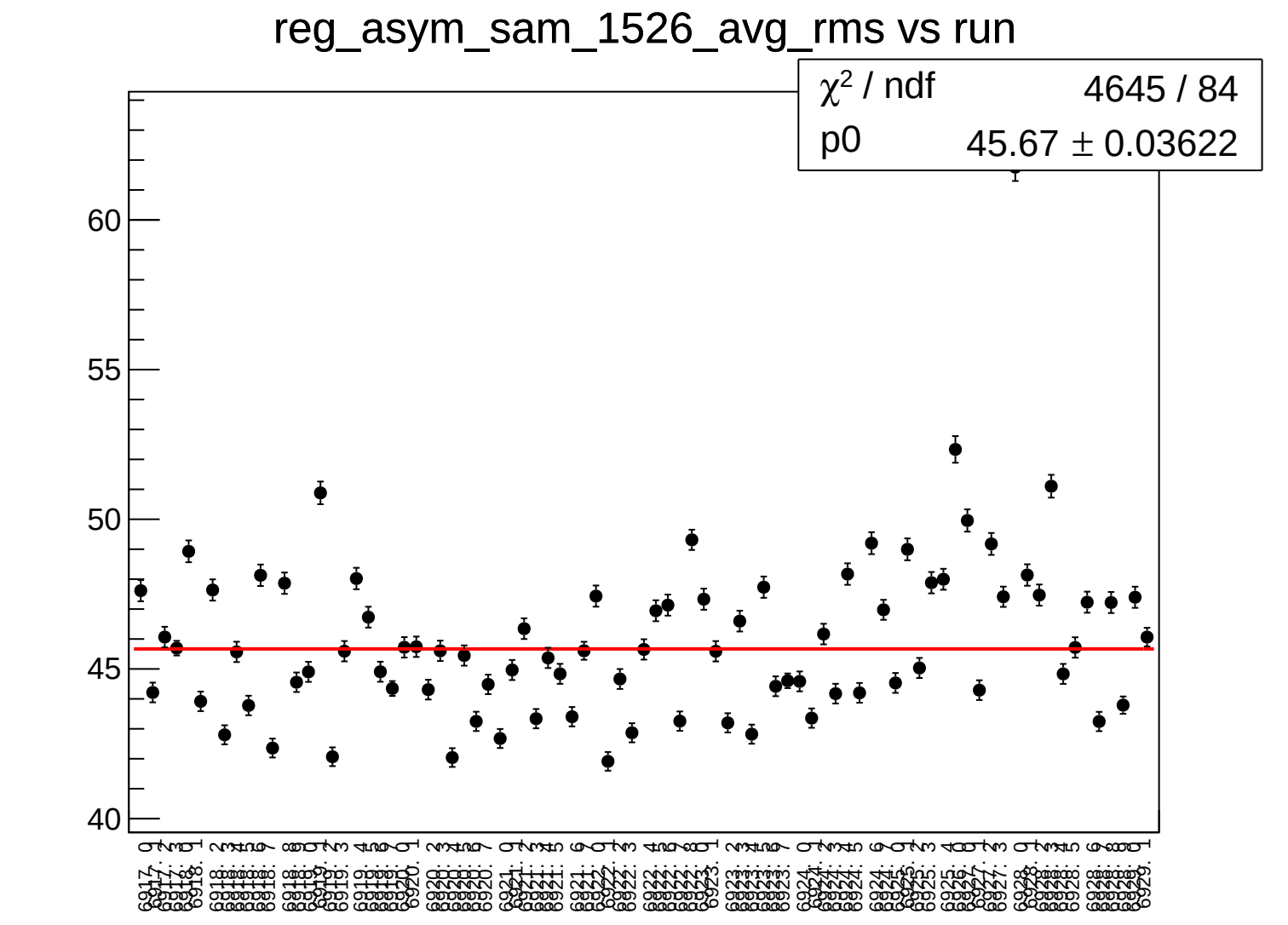

asym_sam_3748_avg_mean vs run
χ² / ndf 98.53 / 84
p0 3193 ± 1148
pull
Entries 85
Mean 447.7
Std Dev 413.3

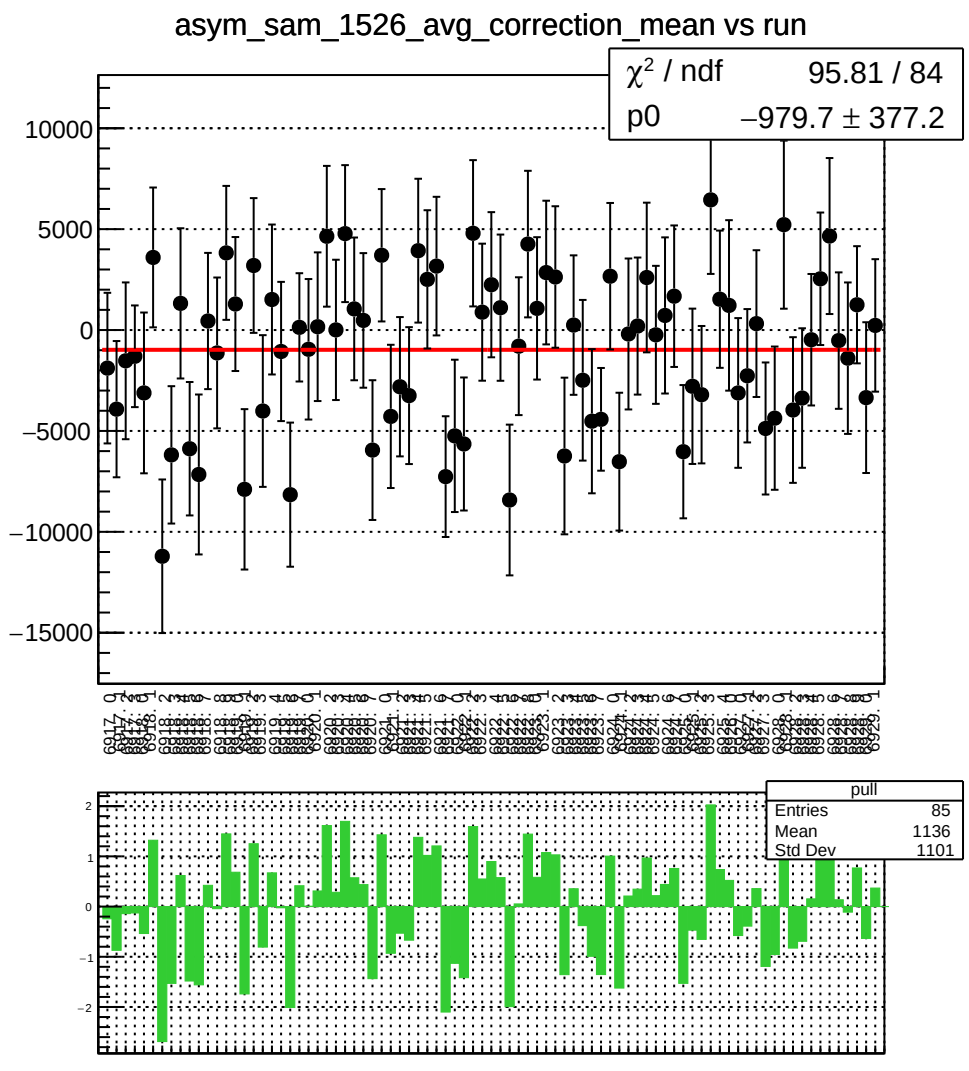

pull1D
Entries 85
Mean −0.007058
Std Dev 1.077

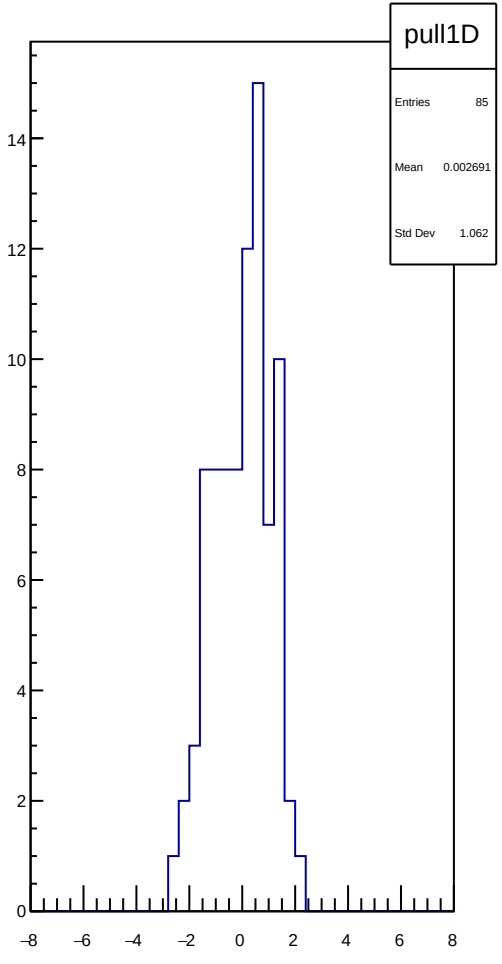

asym_sam_3748_avg_rms vs run
χ^2 / ndf 3358 / 84
p0 1024 ± 0.812
1150
1100
1050
1000
950
900

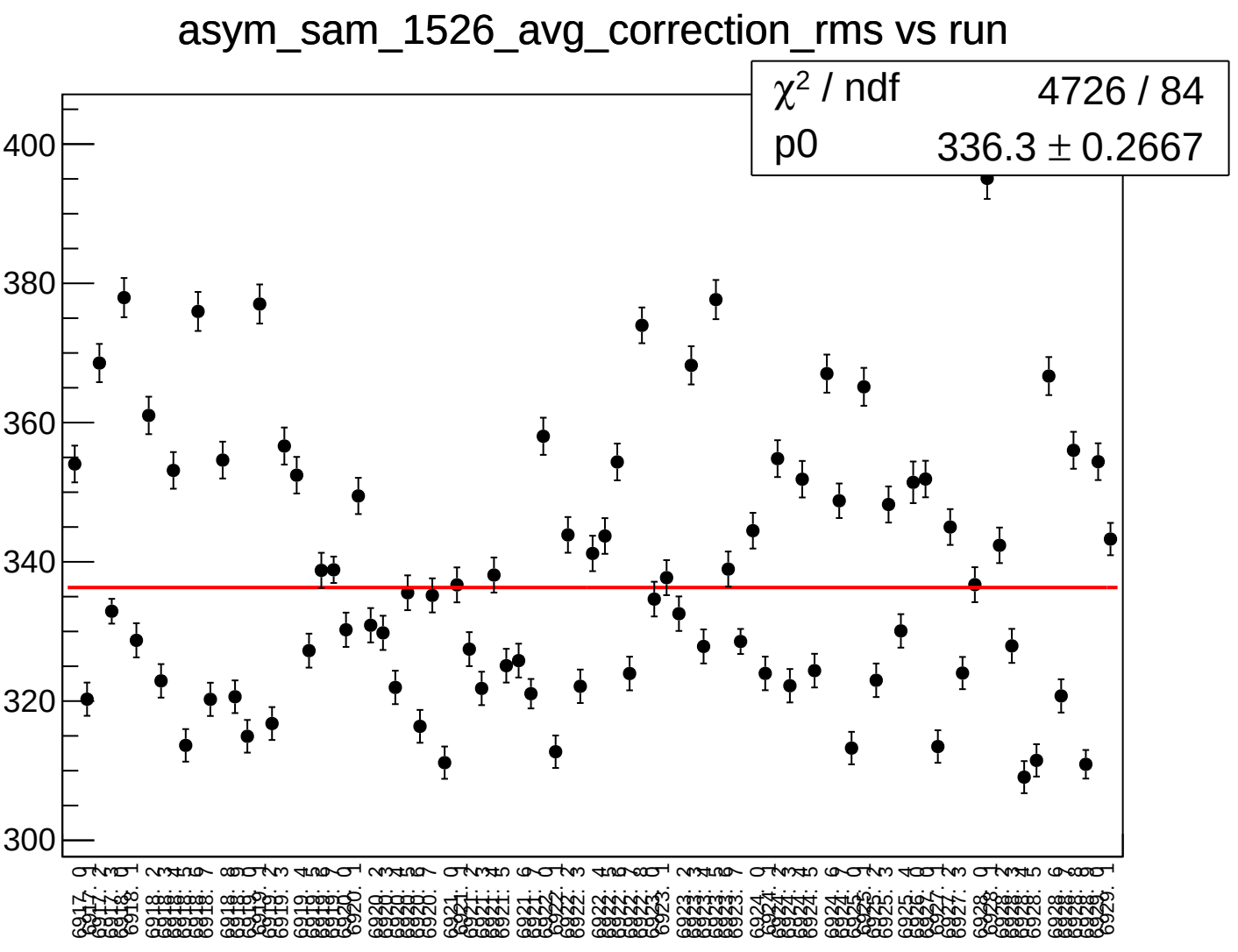

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 113.1 / 84
p0 90.77 ± 51.22
pull
Entries 85
Mean −327.8
Std Dev 394.1

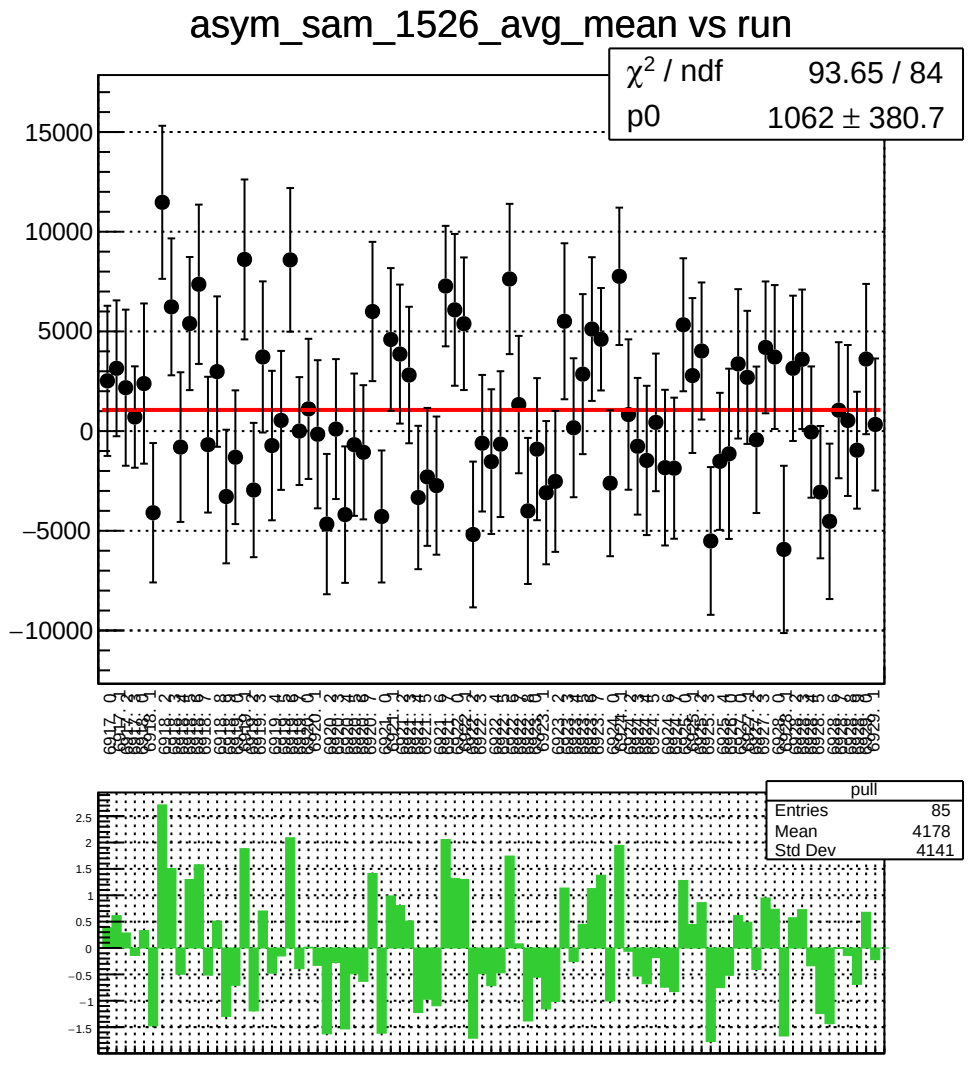

pull1D
Entries 85
Mean 0.004978
Std Dev 1.154

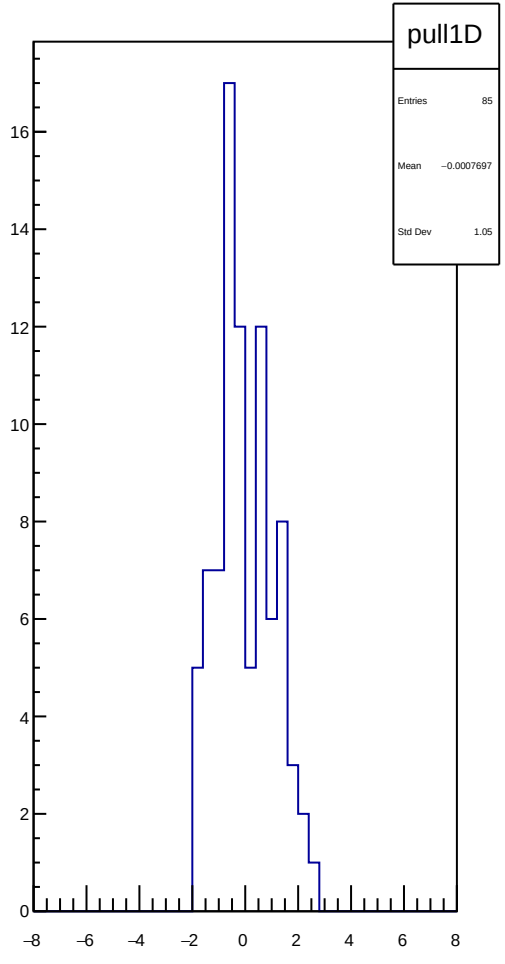

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 4645 / 84
p0 45.67 ± 0.03622
60
55
50
45
40

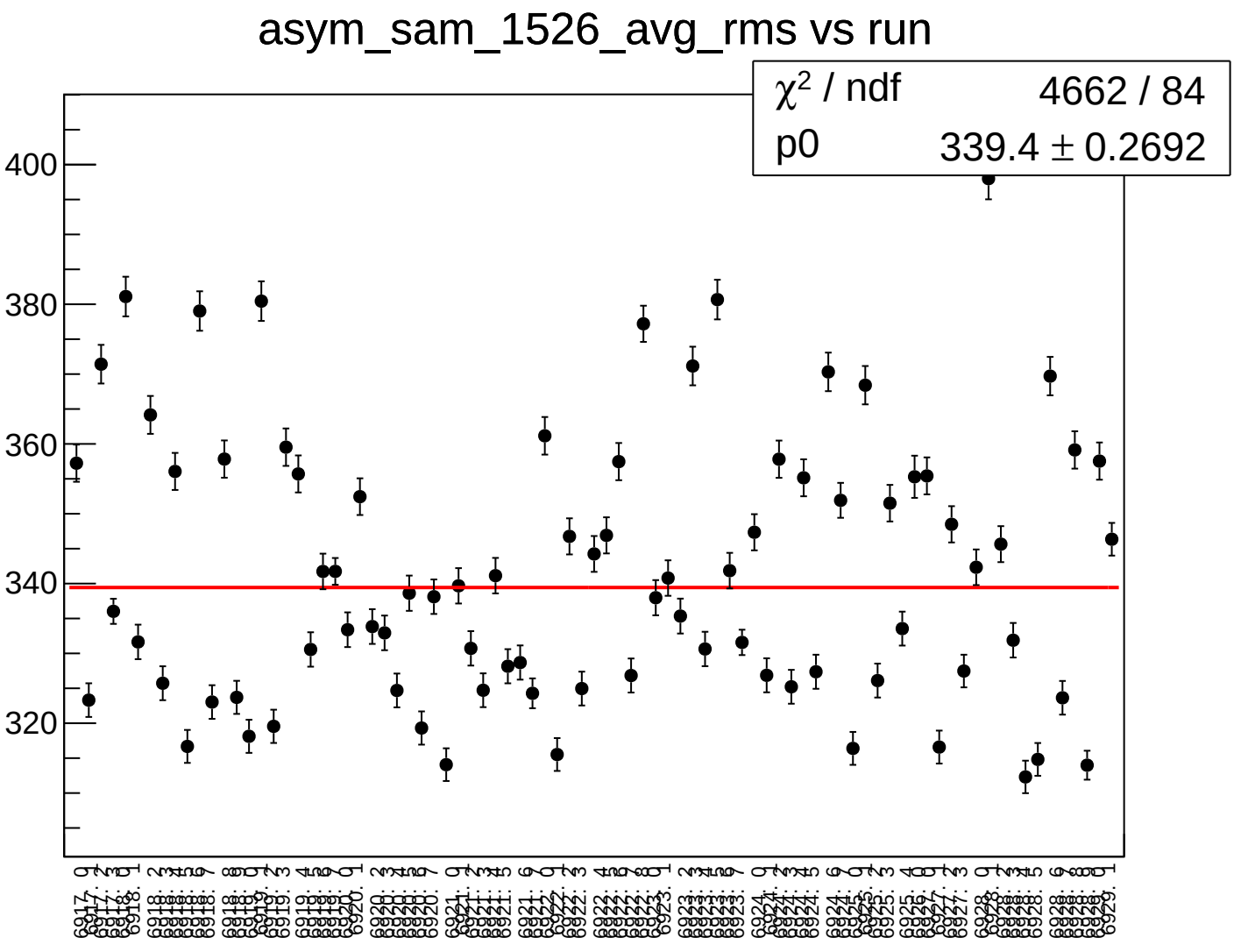

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 95.81 / 84
p0 −979.7 ± 377.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 1136
Std Dev 1101
2
1
0
−1
−2

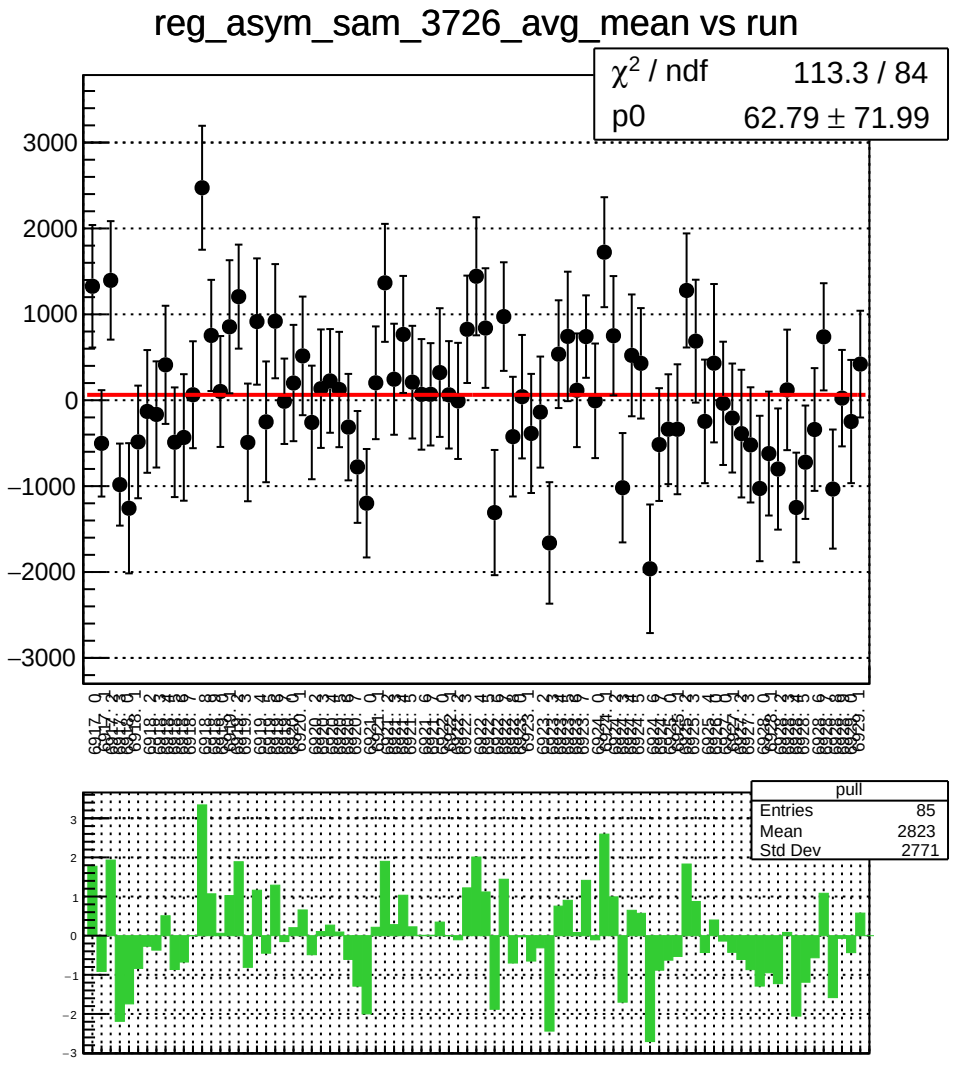

pull1D
Entries 85
Mean 0.002691
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

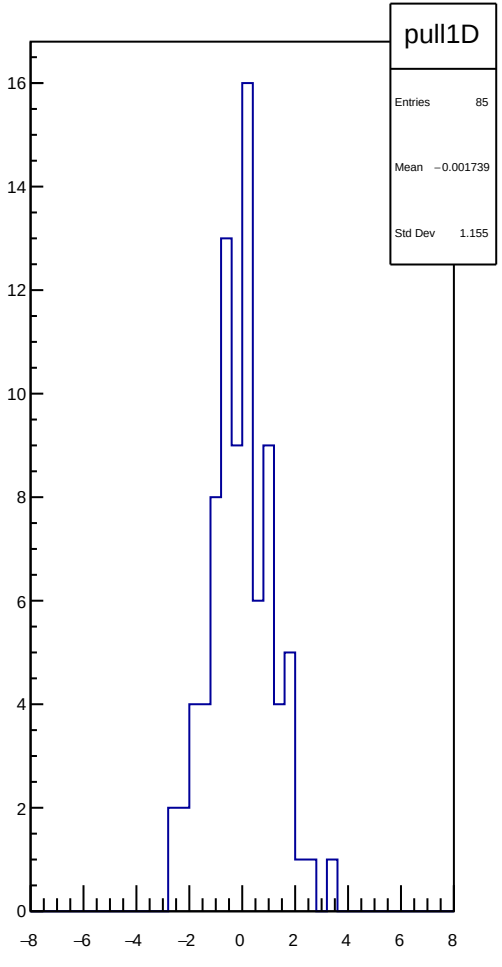

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 4726 / 84
p0 336.3 ± 0.2667
400
380
360
340
320
300

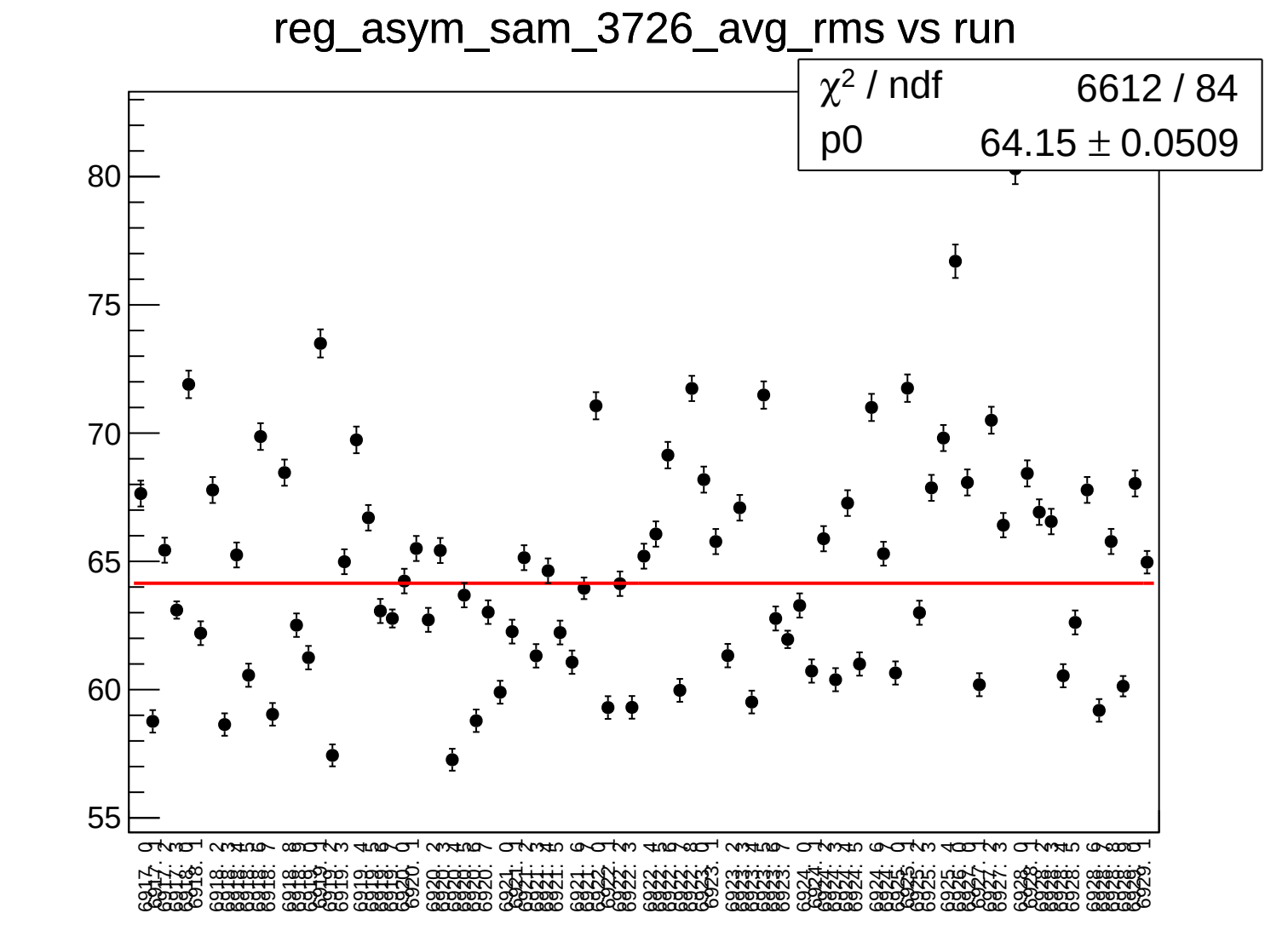

asym_sam_1526_avg_mean vs run
χ² / ndf 93.65 / 84
p0 1062 ± 380.7
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 4178
Std Dev 4141
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

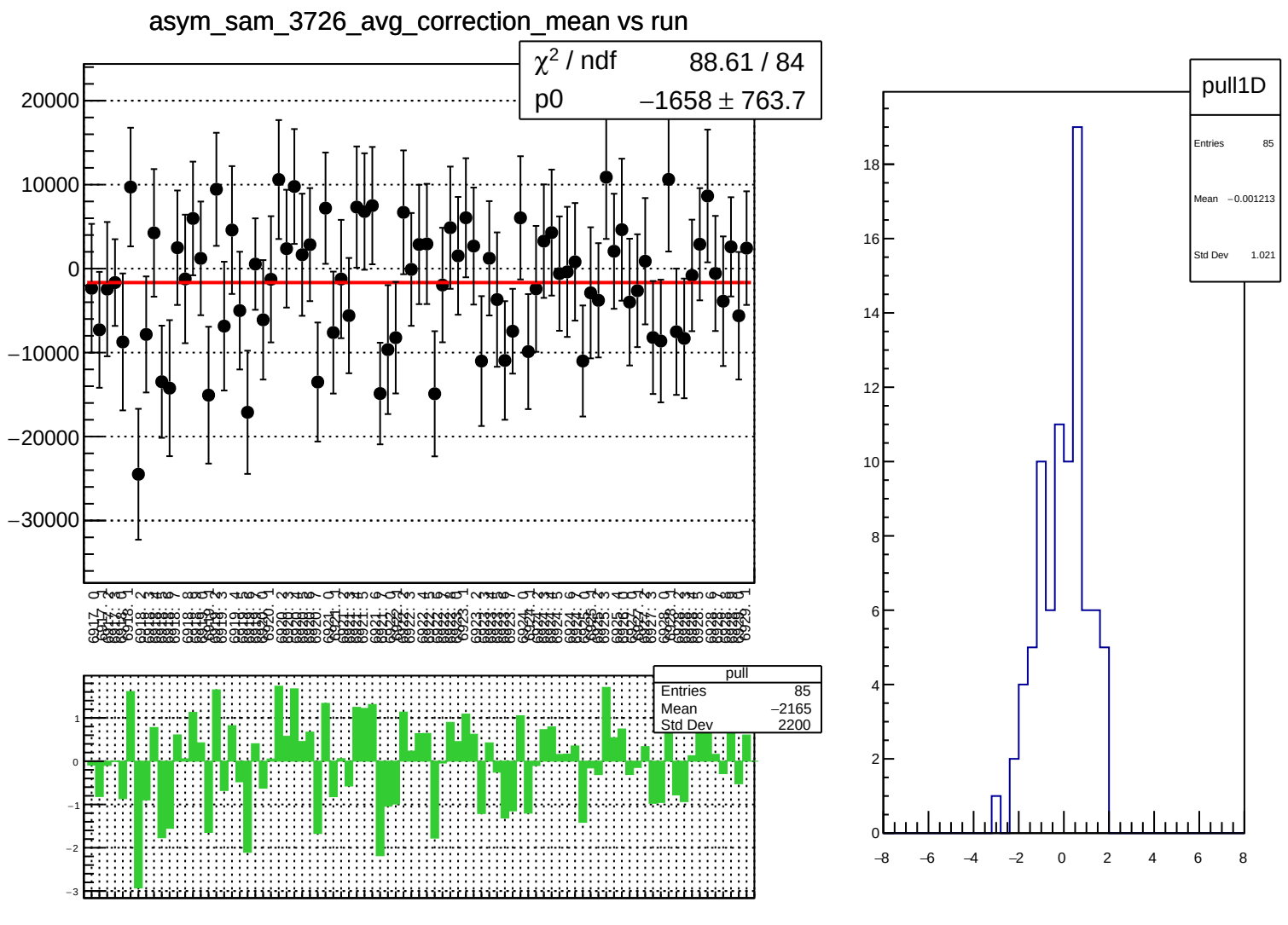

pull1D
Entries 85
Mean −0.0007697
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

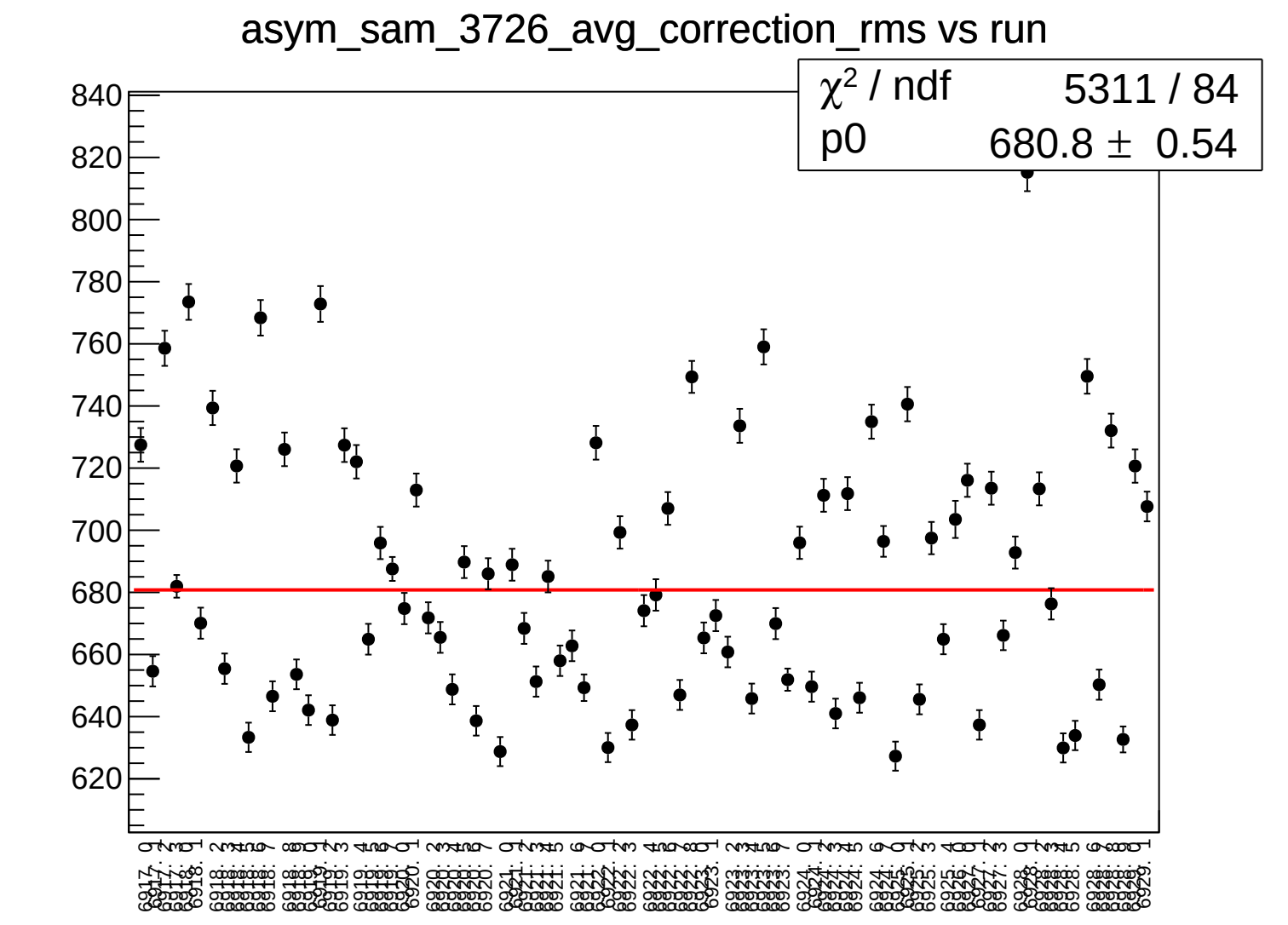

asym_sam_1526_avg_rms vs run
χ² / ndf 4662 / 84
p0 339.4 ± 0.2692
400
380
360
340
320

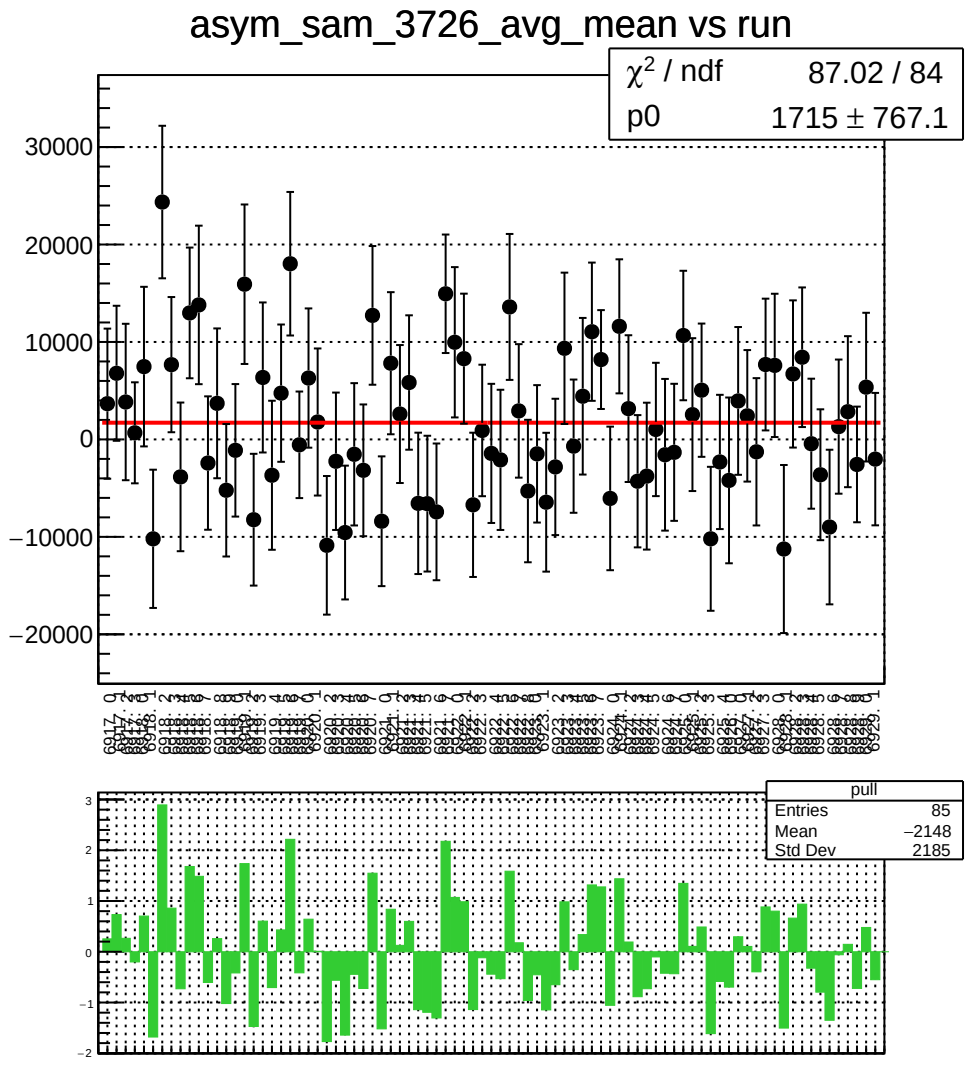

reg_asym_sam_3726_avg_mean vs run
χ^2 / ndf 113.3 / 84
p0 62.79 ± 71.99
pull
Entries 85
Mean 2823
Std Dev 2771

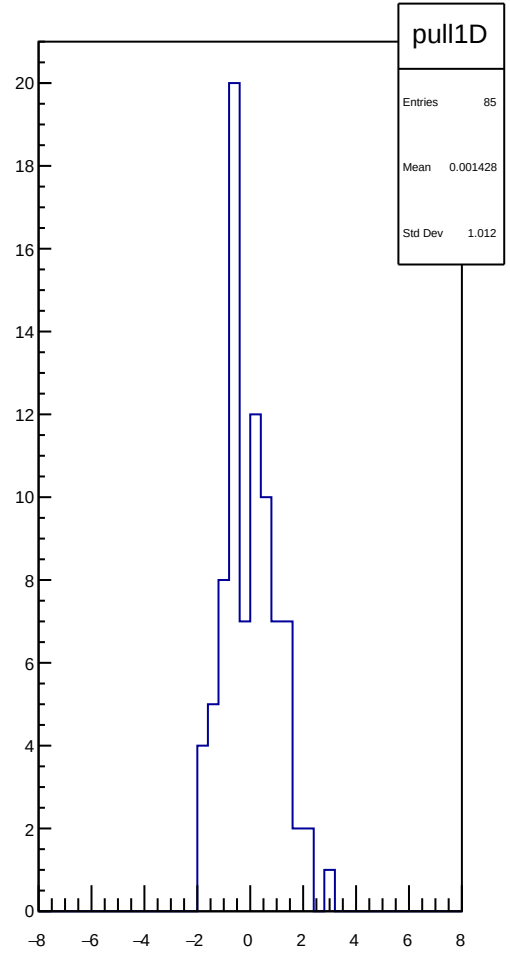

pull1D
Entries 85
Mean −0.001739
Std Dev 1.155

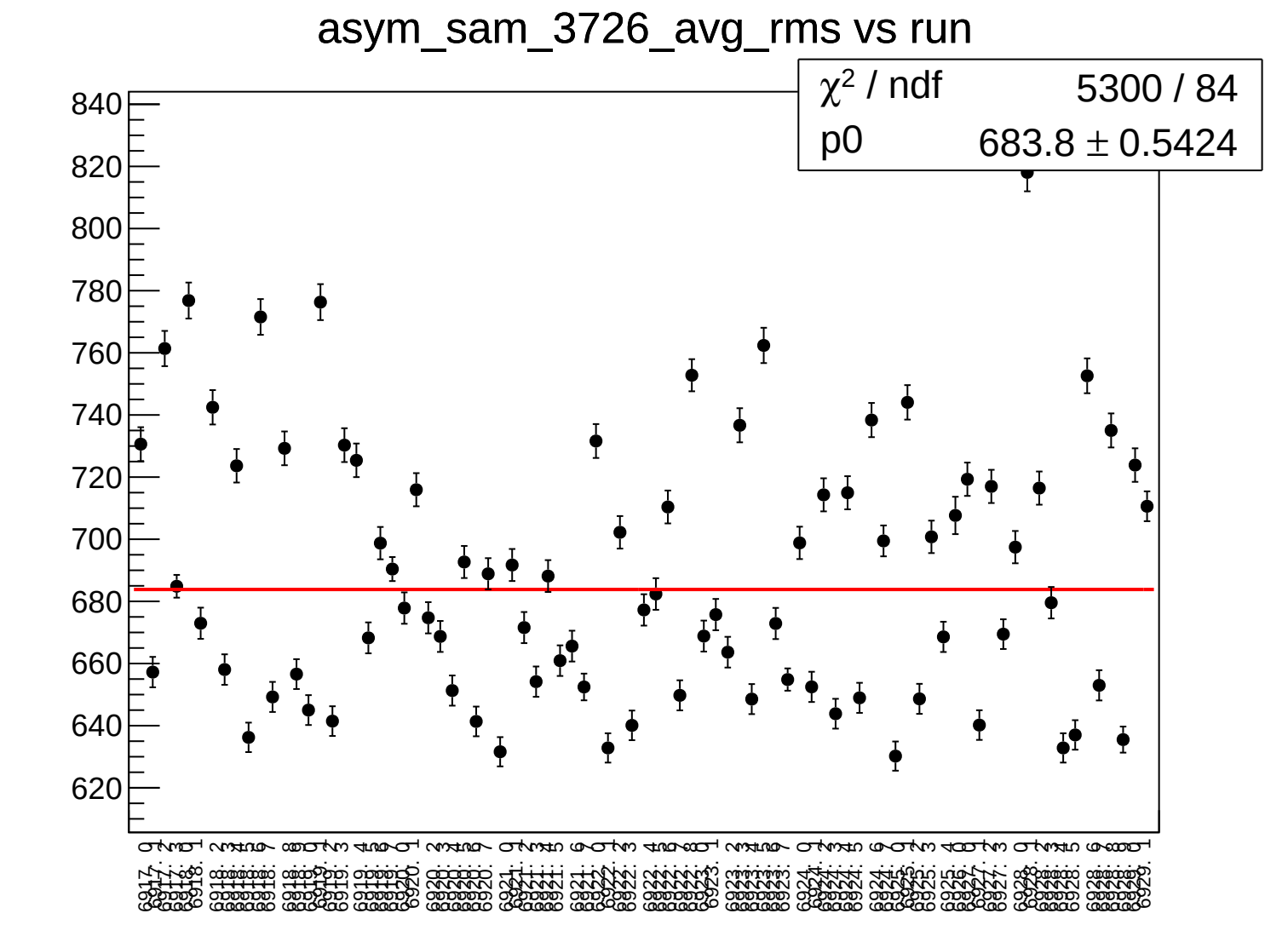

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 6612 / 84
p0 64.15 ± 0.0509
80
75
70
65
60
55

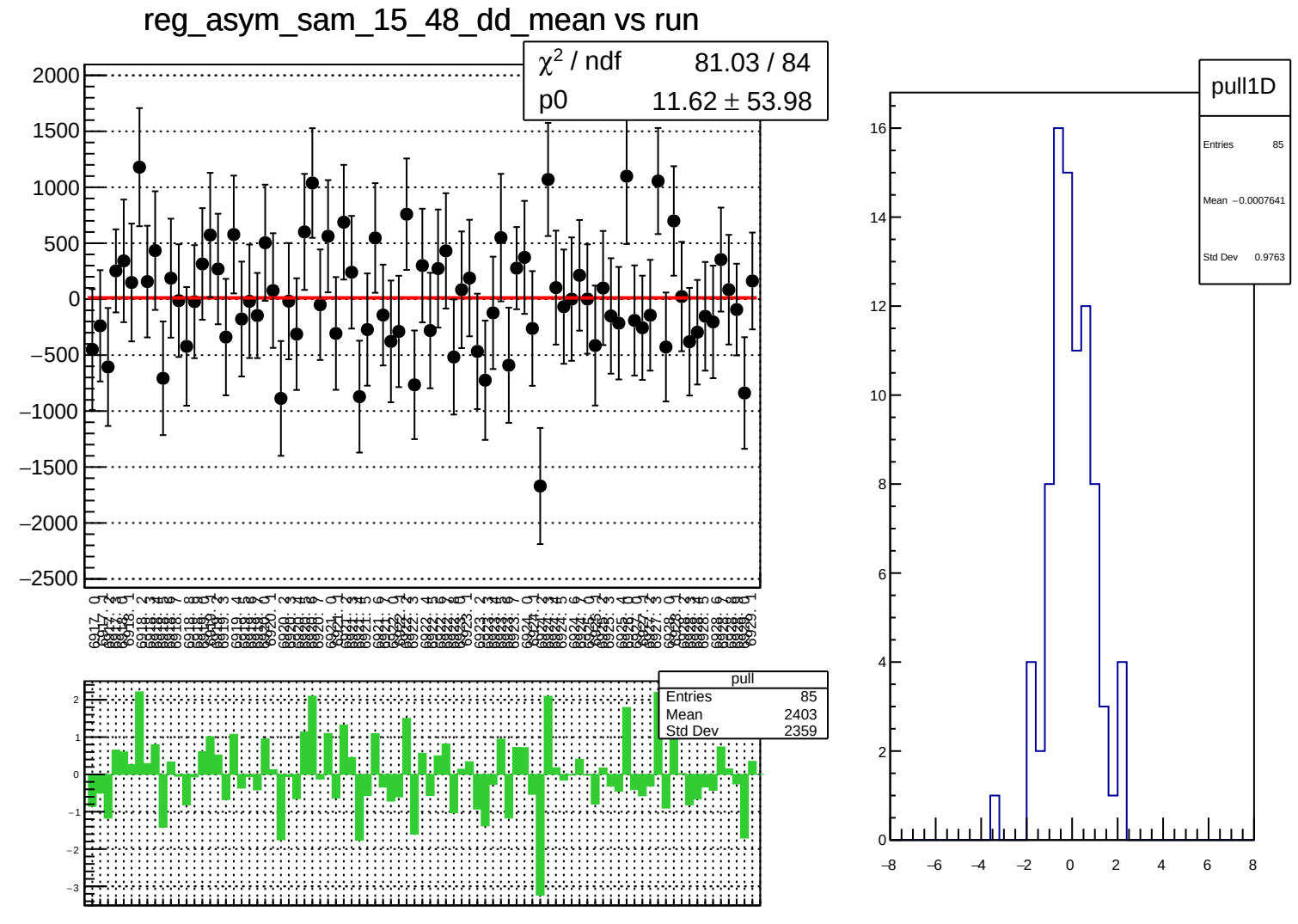

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 88.61 / 84
p0 −1658 ± 763.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −2165
Std Dev 2200
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.001213
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

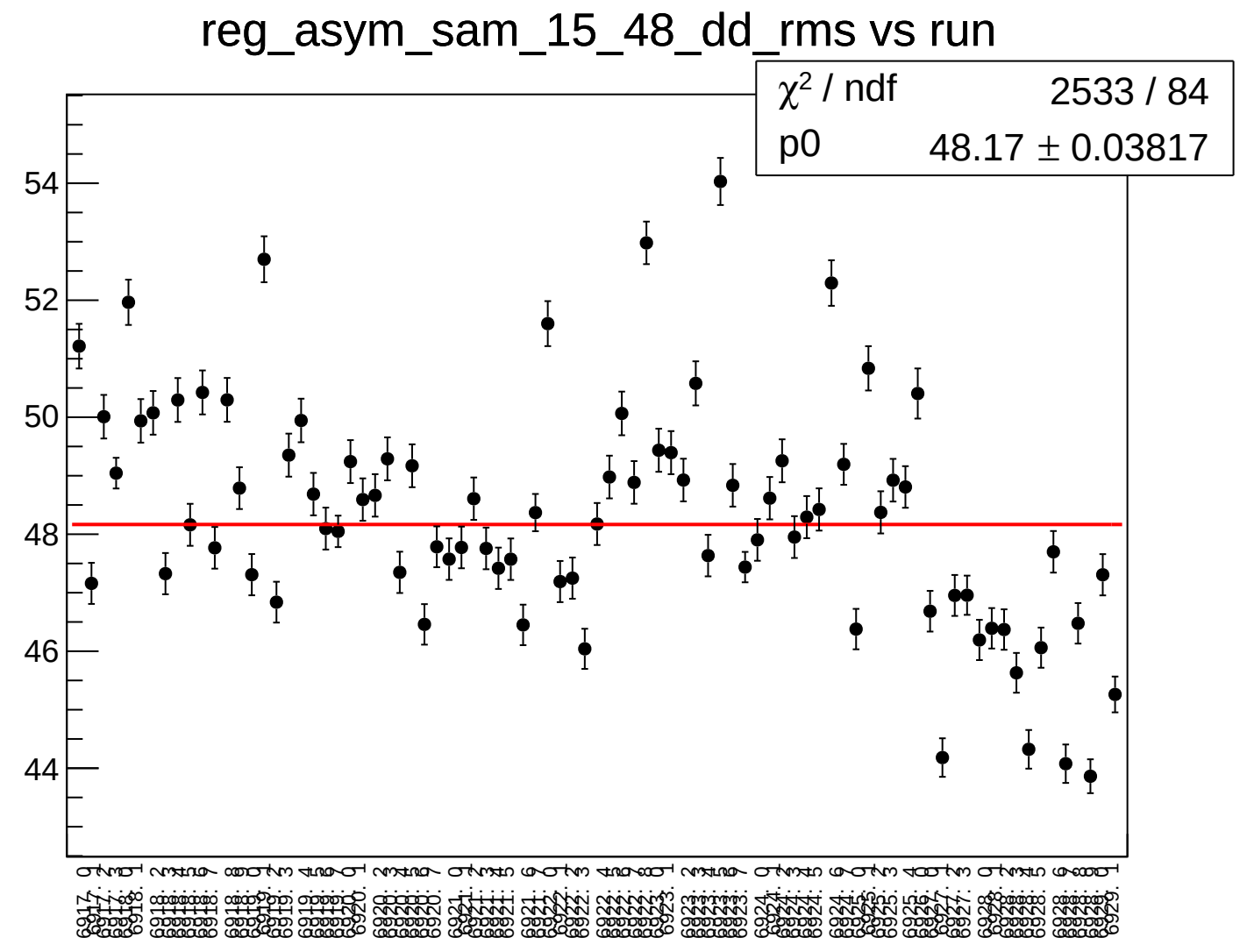

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 5311 / 84
p0 680.8 ± 0.54
840
820
800
780
760
740
720
700
680
660
640
620

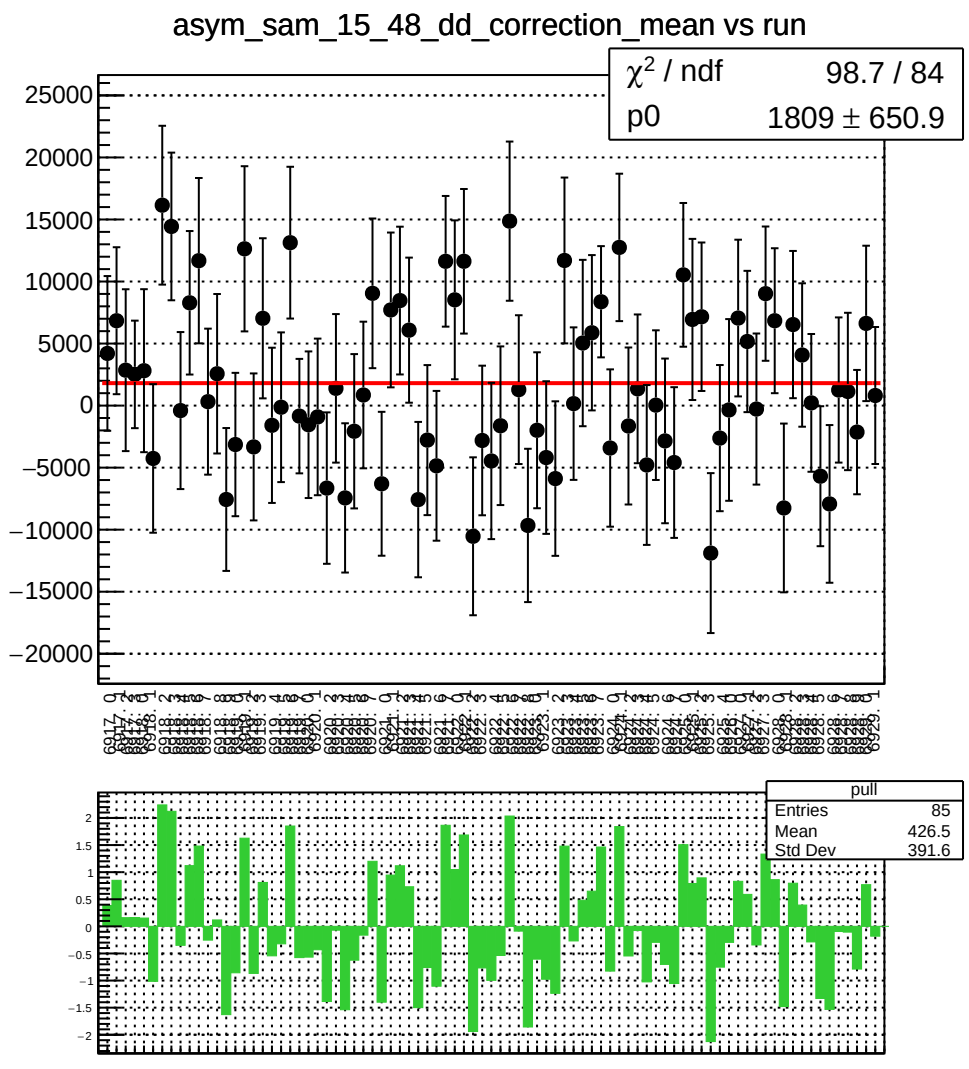

asym_sam_3726_avg_mean vs run
χ² / ndf 87.02 / 84
p0 1715 ± 767.1
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −2148
Std Dev 2185
3
2
1
0
−1
−2

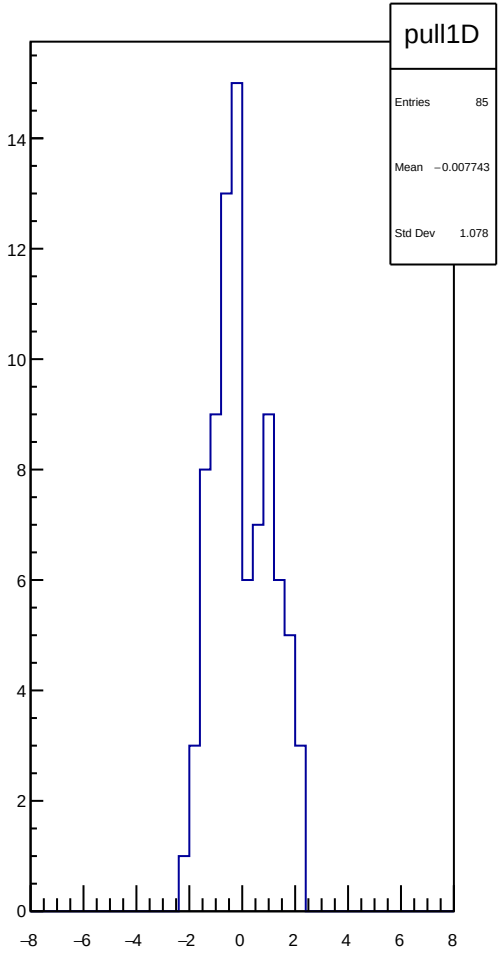

pull1D
Entries 85
Mean 0.001428
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

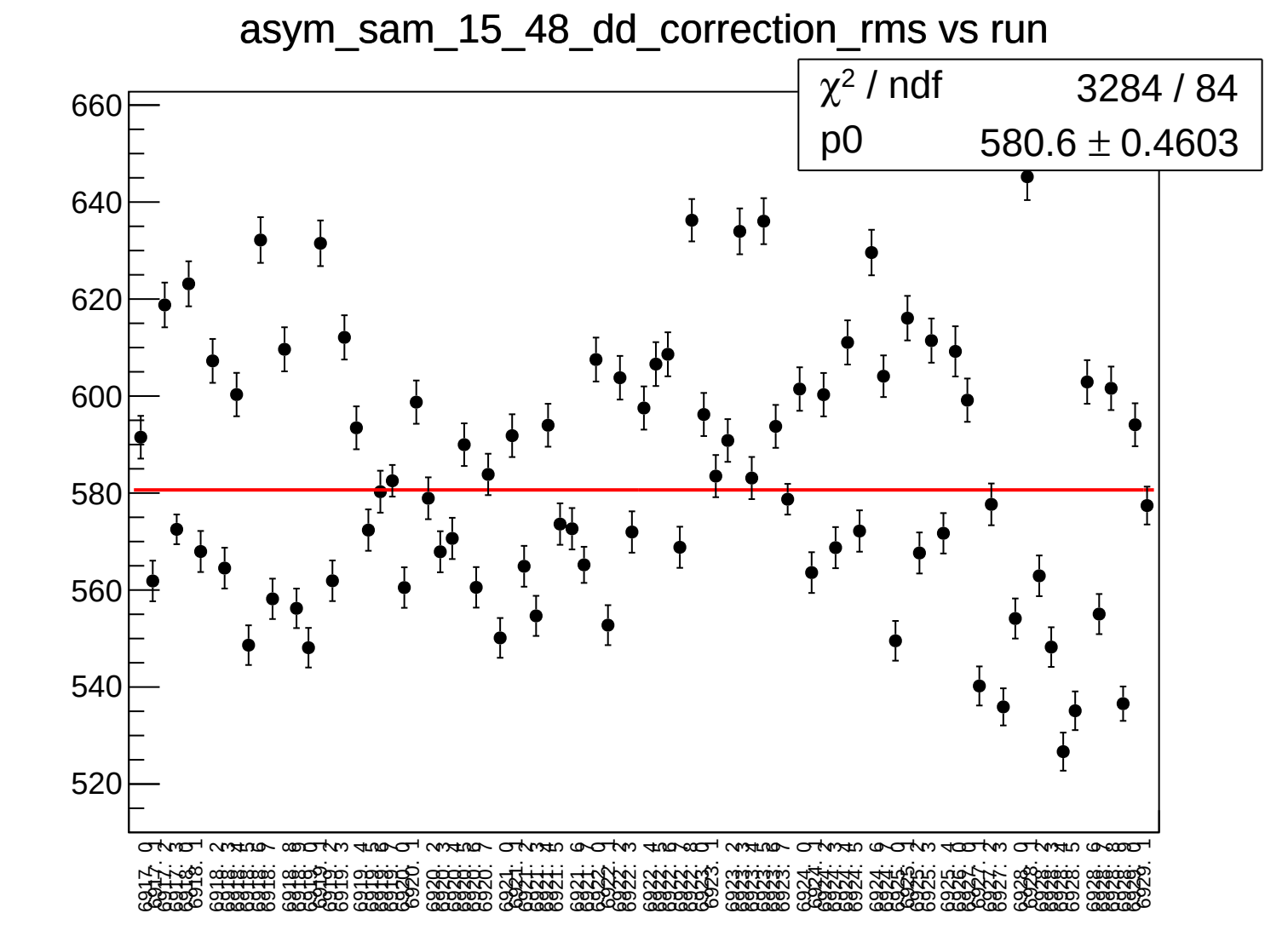

asym_sam_3726_avg_rms vs run
χ² / ndf 5300 / 84
p0 683.8 ± 0.5424
840
820
800
780
760
740
720
700
680
660
640
620

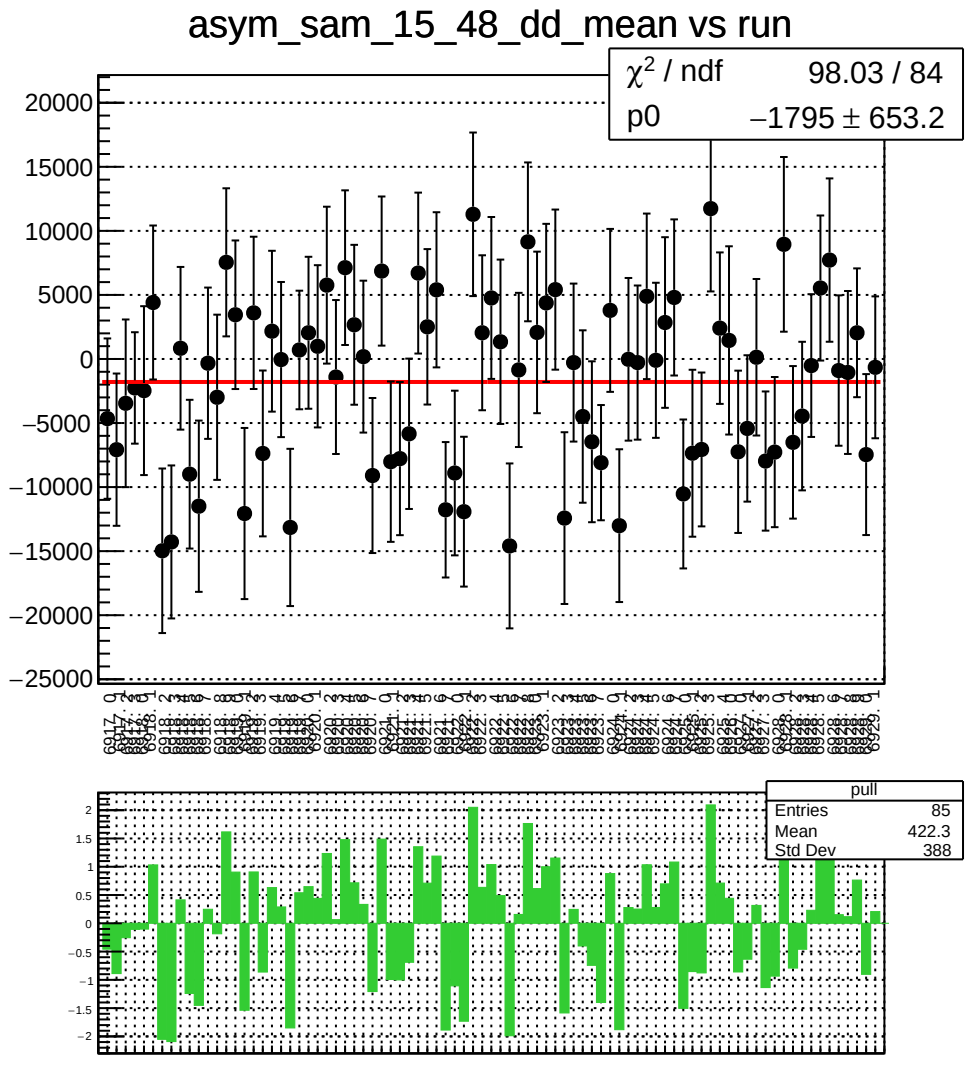

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.03 / 84
p0 11.62 ± 53.98
pull
Entries 85
Mean 2403
Std Dev 2359
pull1D
Entries 85
Mean −0.0007641
Std Dev 0.9763

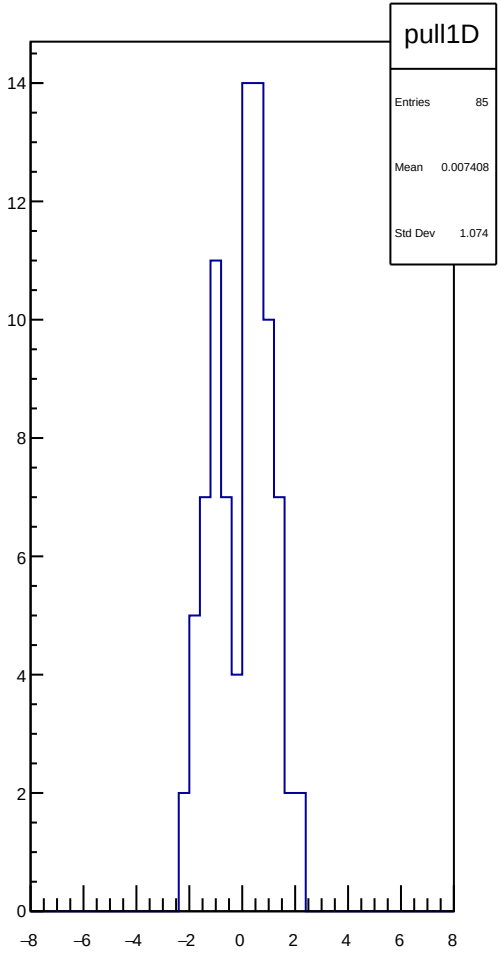

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2533 / 84
p0 48.17 ± 0.03817
54
52
50
48
46
44

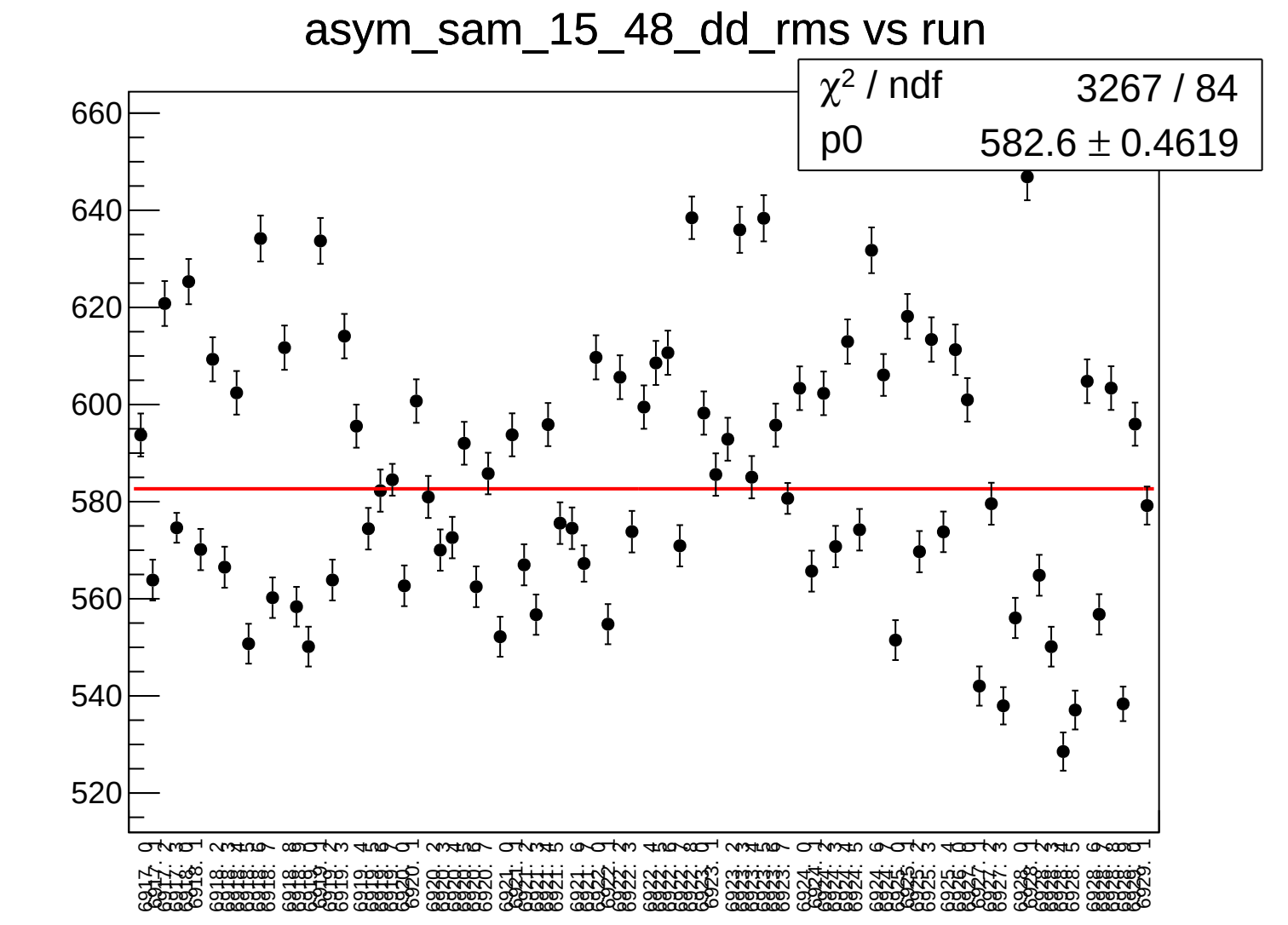

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 98.7 / 84
p0 1809 ± 650.9
pull
Entries 85
Mean 426.5
Std Dev 391.6

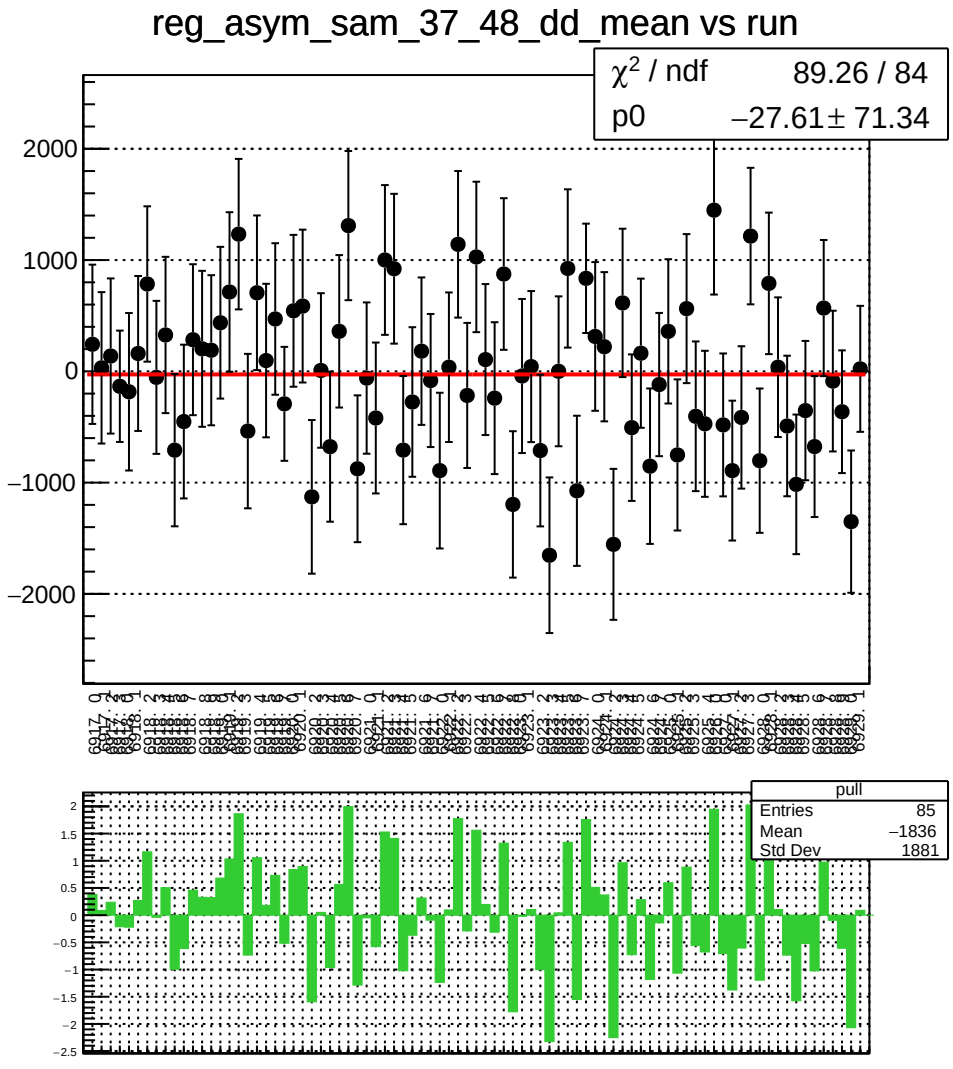

pull1D
Entries 85
Mean −0.007743
Std Dev 1.078

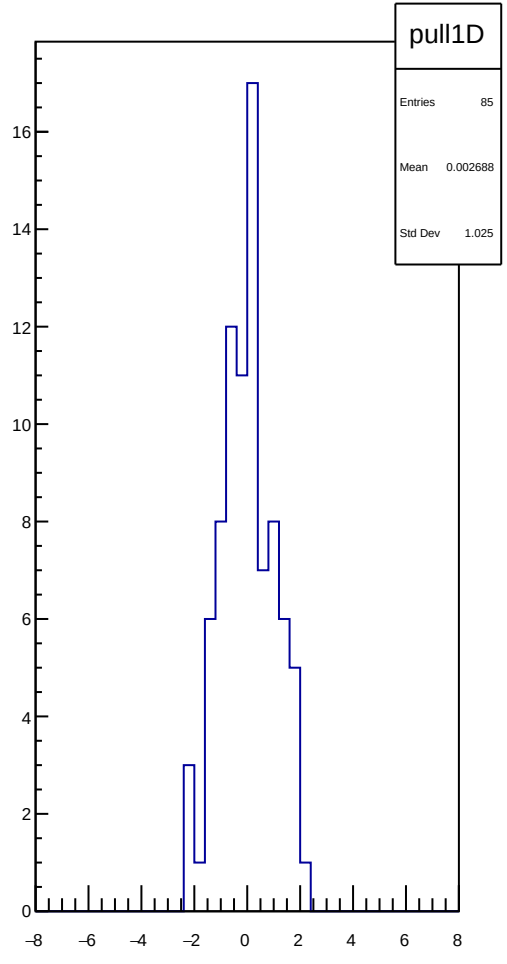

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 3284 / 84
p0 580.6 ± 0.4603
660
640
620
600
580
560
540
520

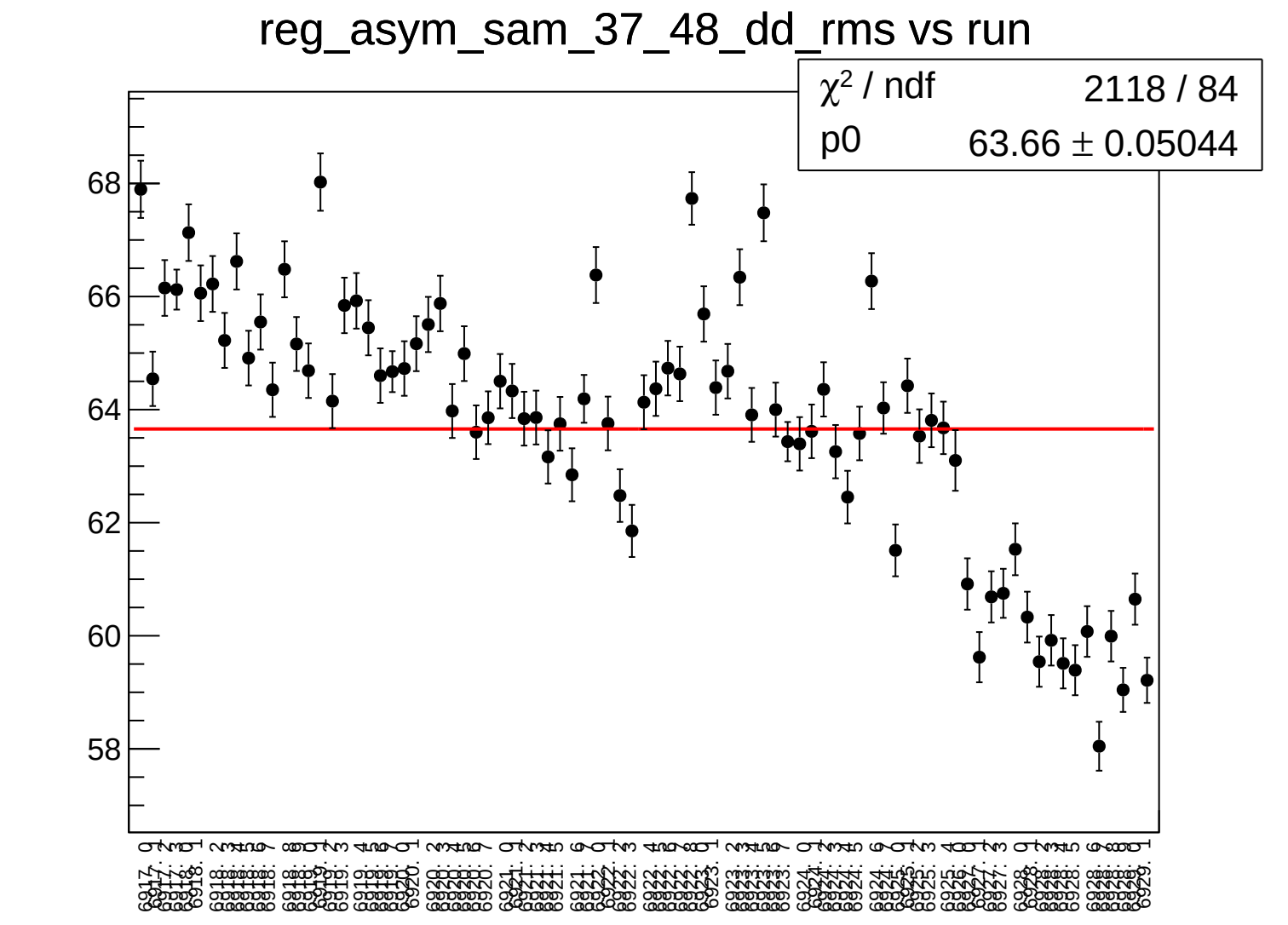

asym_sam_15_48_dd_mean vs run
χ^2 / ndf 98.03 / 84
p0 −1795 ± 653.2
pull
Entries 85
Mean 422.3
Std Dev 388

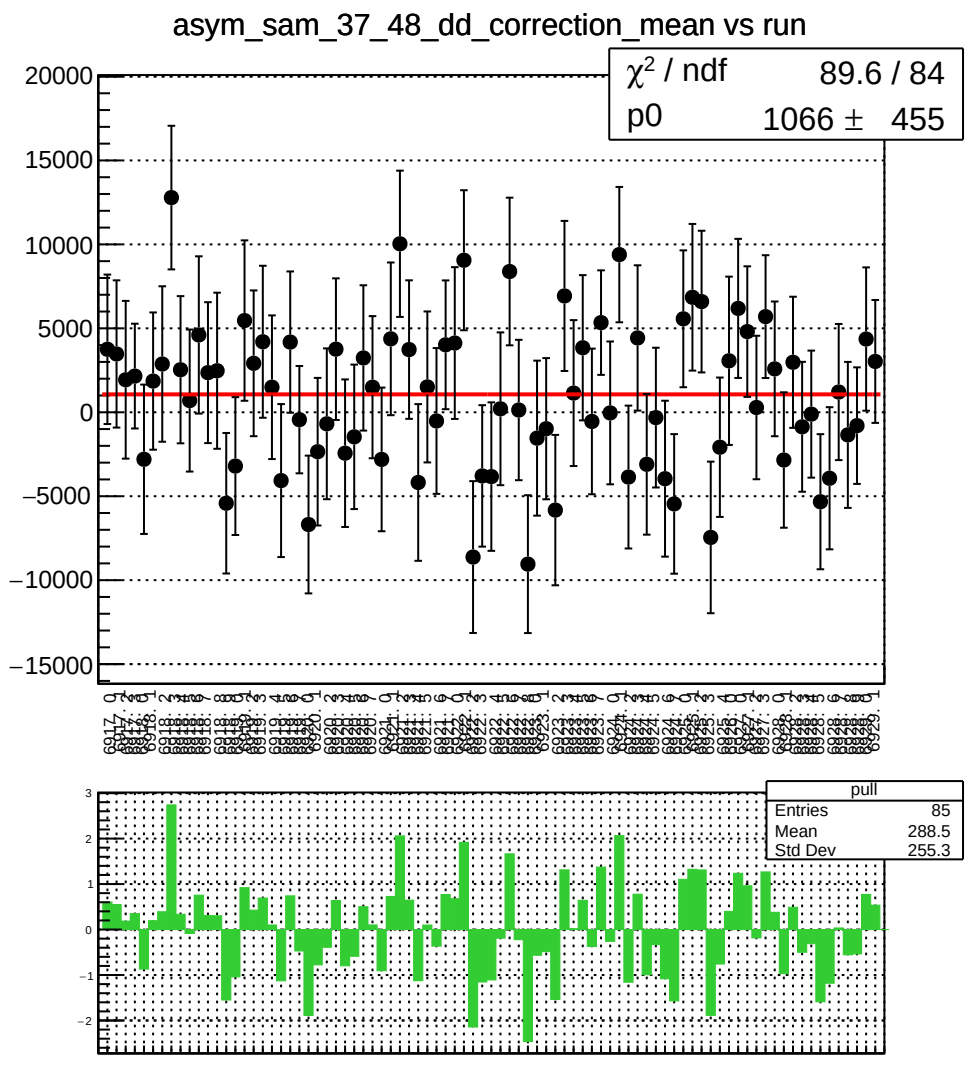

pull1D
Entries 85
Mean 0.007408
Std Dev 1.074

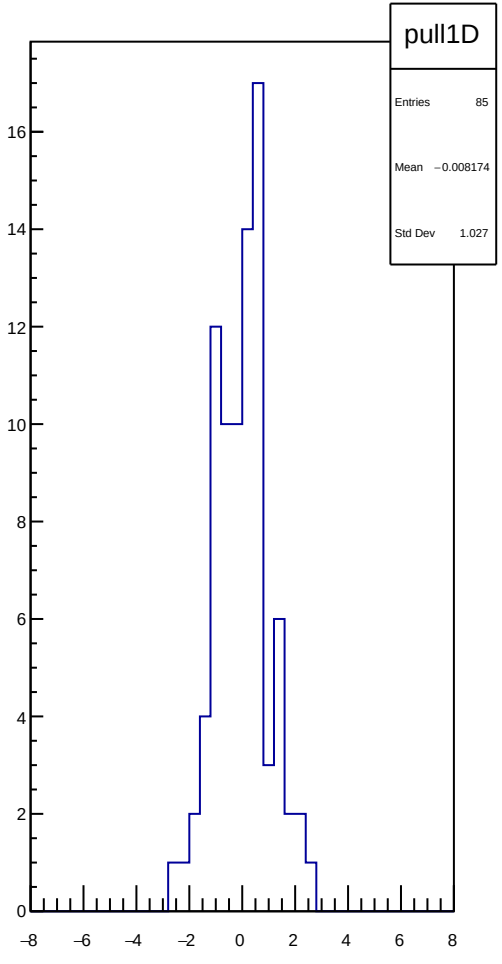

asym_sam_15_48_dd_rms vs run
χ² / ndf 3267 / 84
p0 582.6 ± 0.4619
660
640
620
600
580
560
540
520

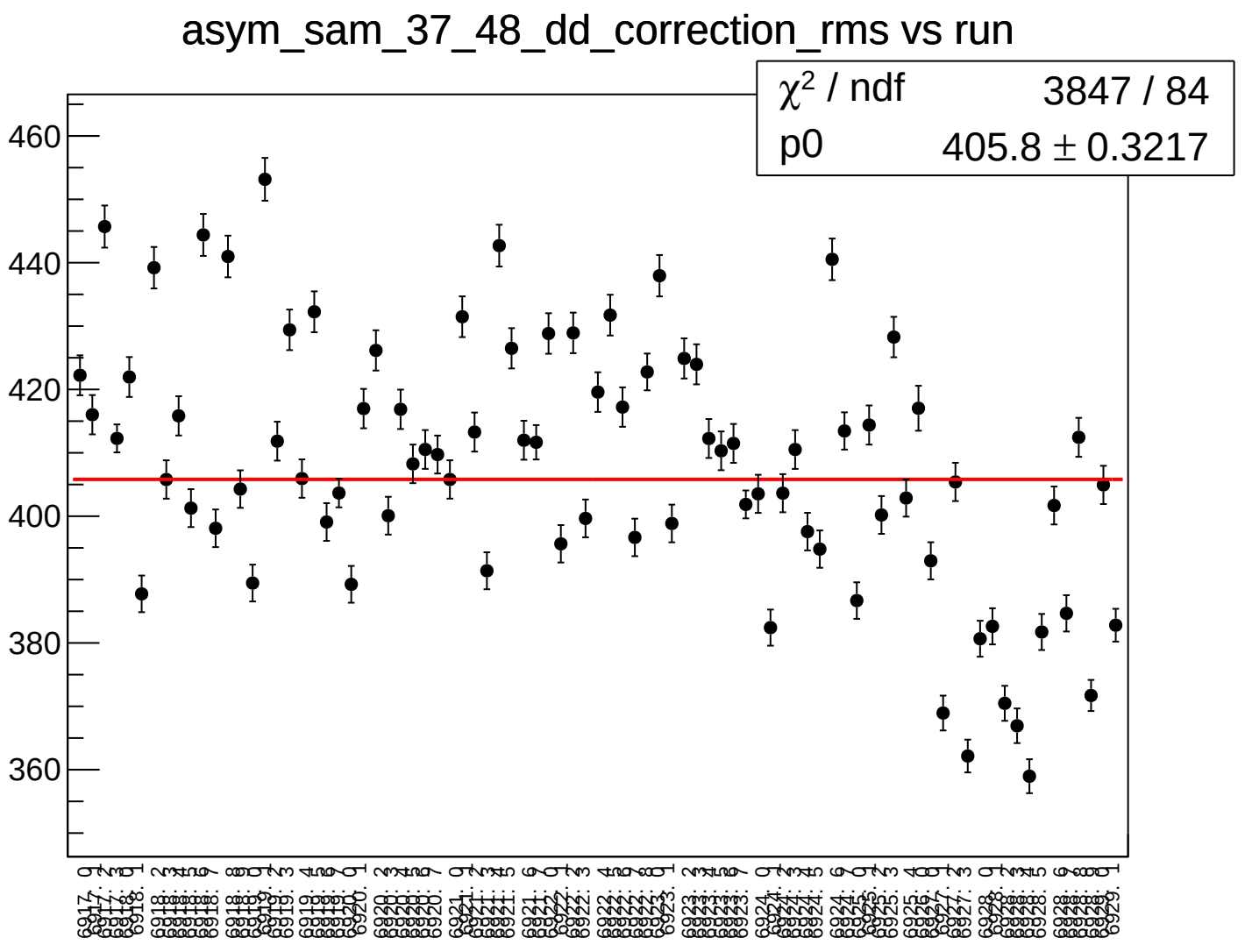

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.26 / 84
p0 −27.61± 71.34
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −1836
Std Dev 1881
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

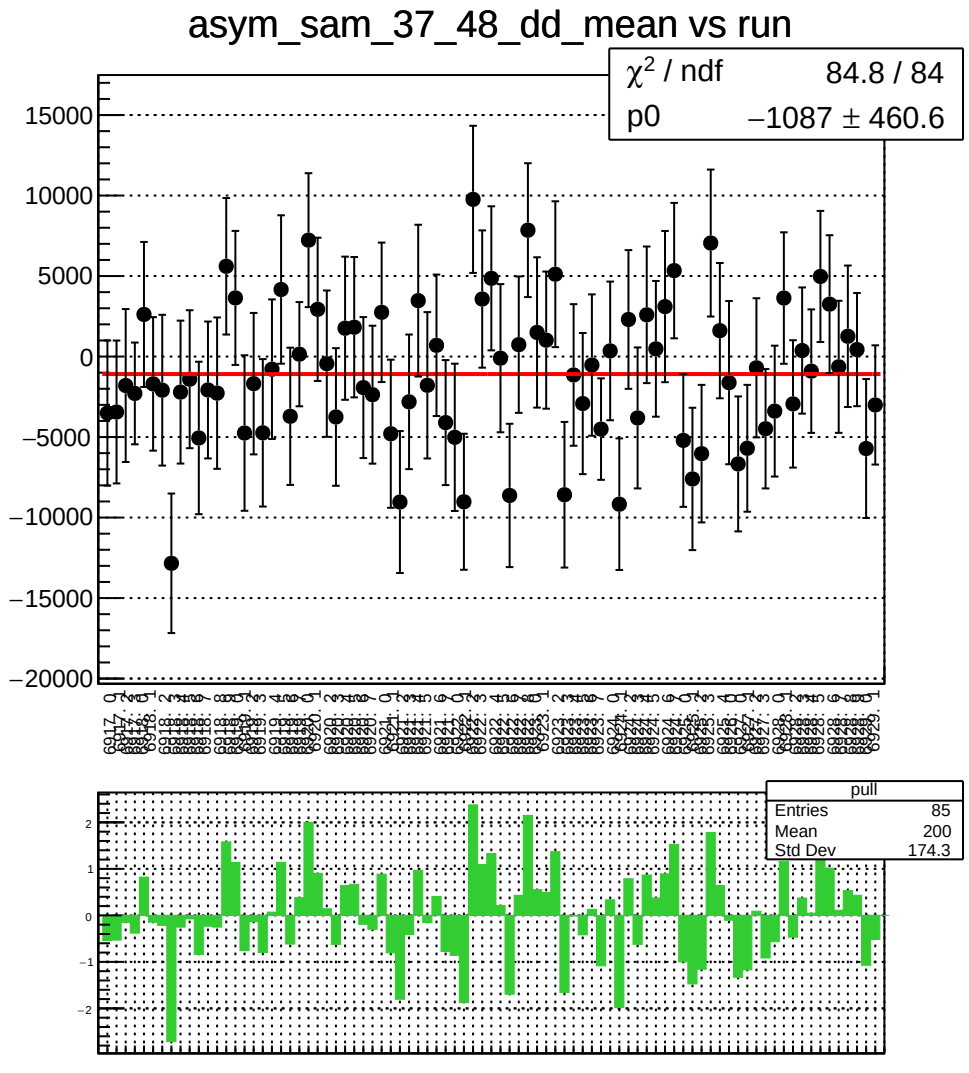

pull1D
Entries 85
Mean 0.002688
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

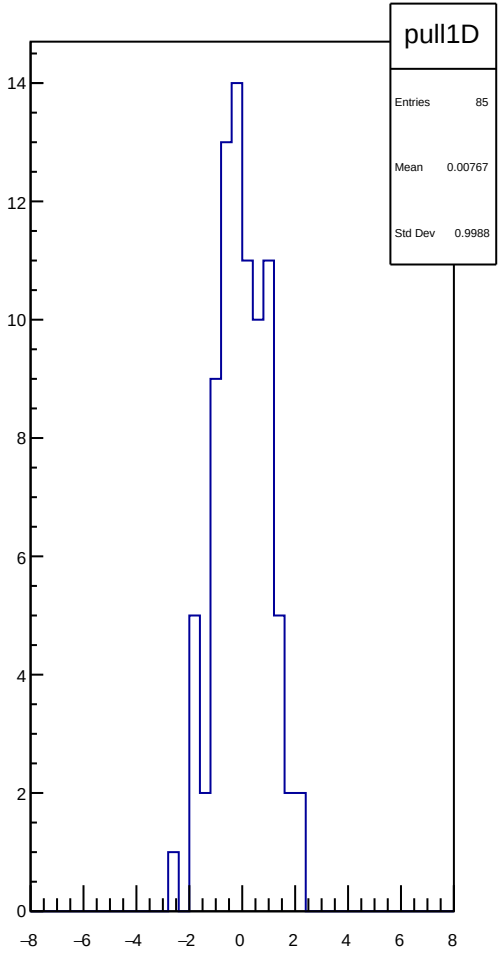

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2118 / 84
p0 63.66 ± 0.05044
68
66
64
62
60
58

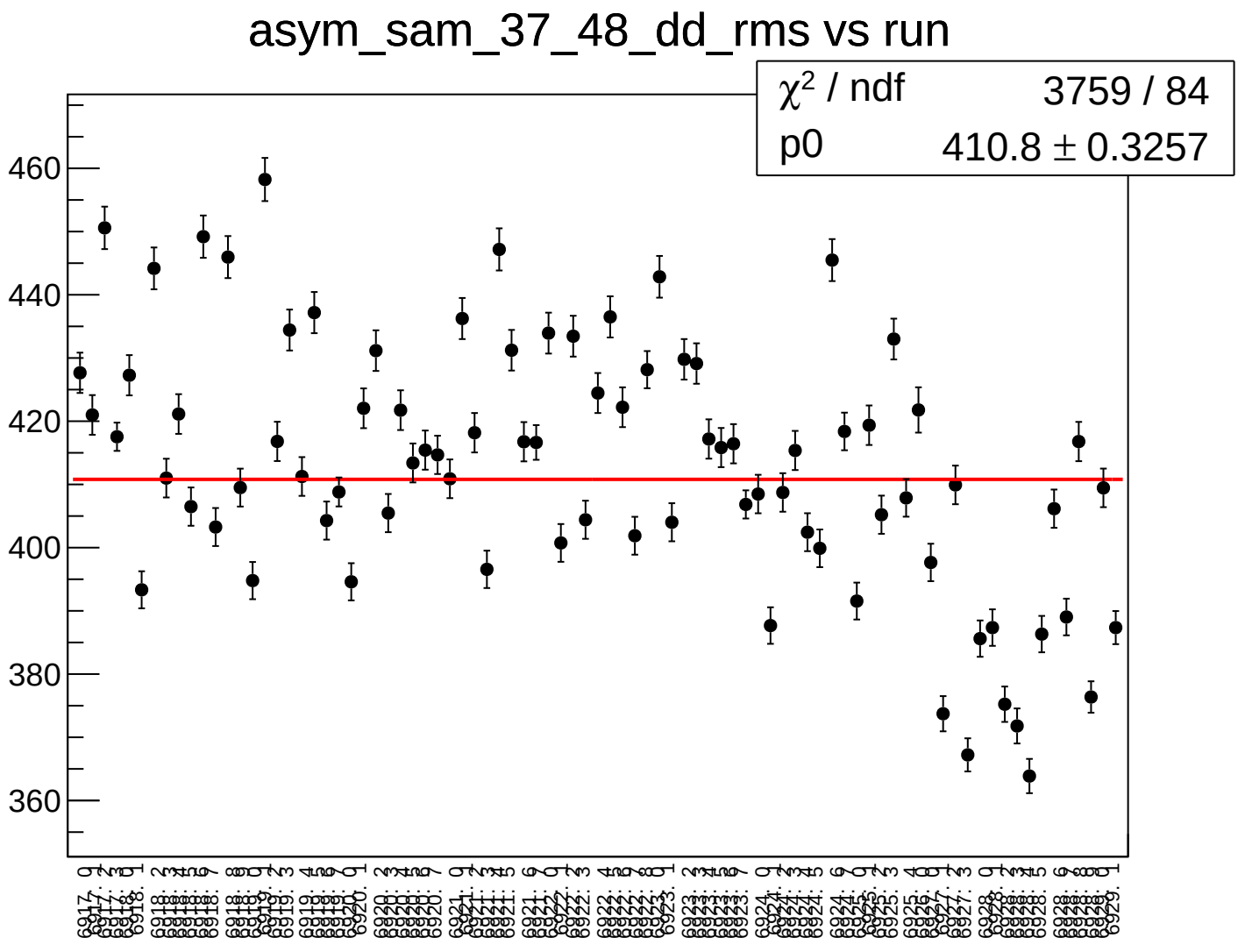

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 89.6 / 84
p0 1066 ± 455
pull
Entries 85
Mean 288.5
Std Dev 255.3

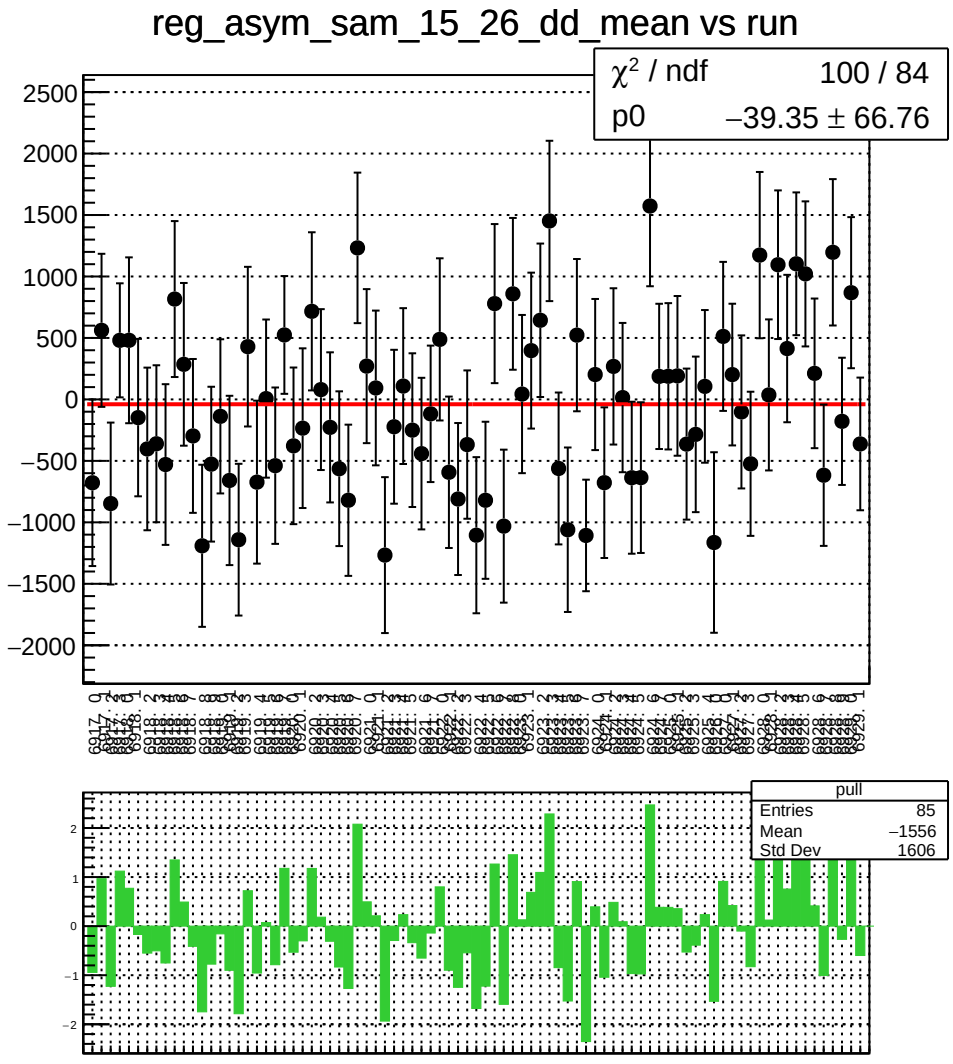

pull1D
Entries 85
Mean −0.008174
Std Dev 1.027

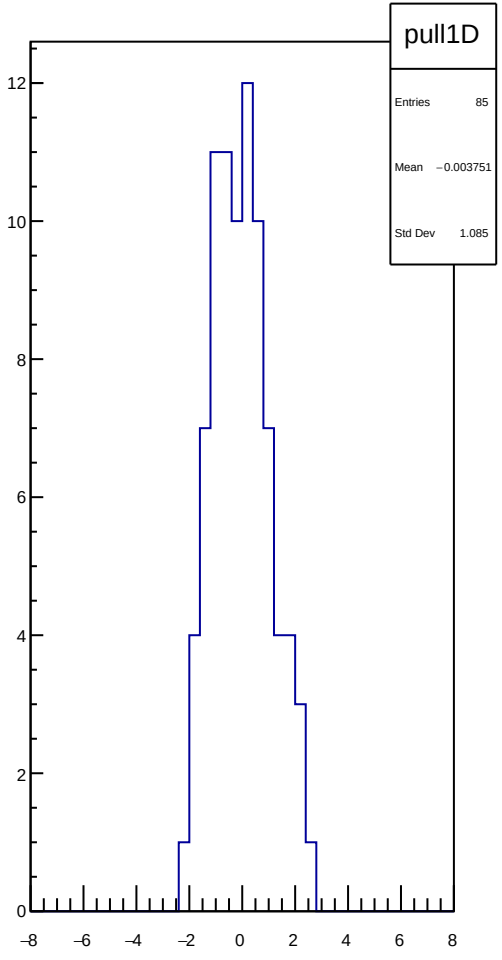

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 3847 / 84
p0 405.8 ± 0.3217
460
440
420
400
380
360

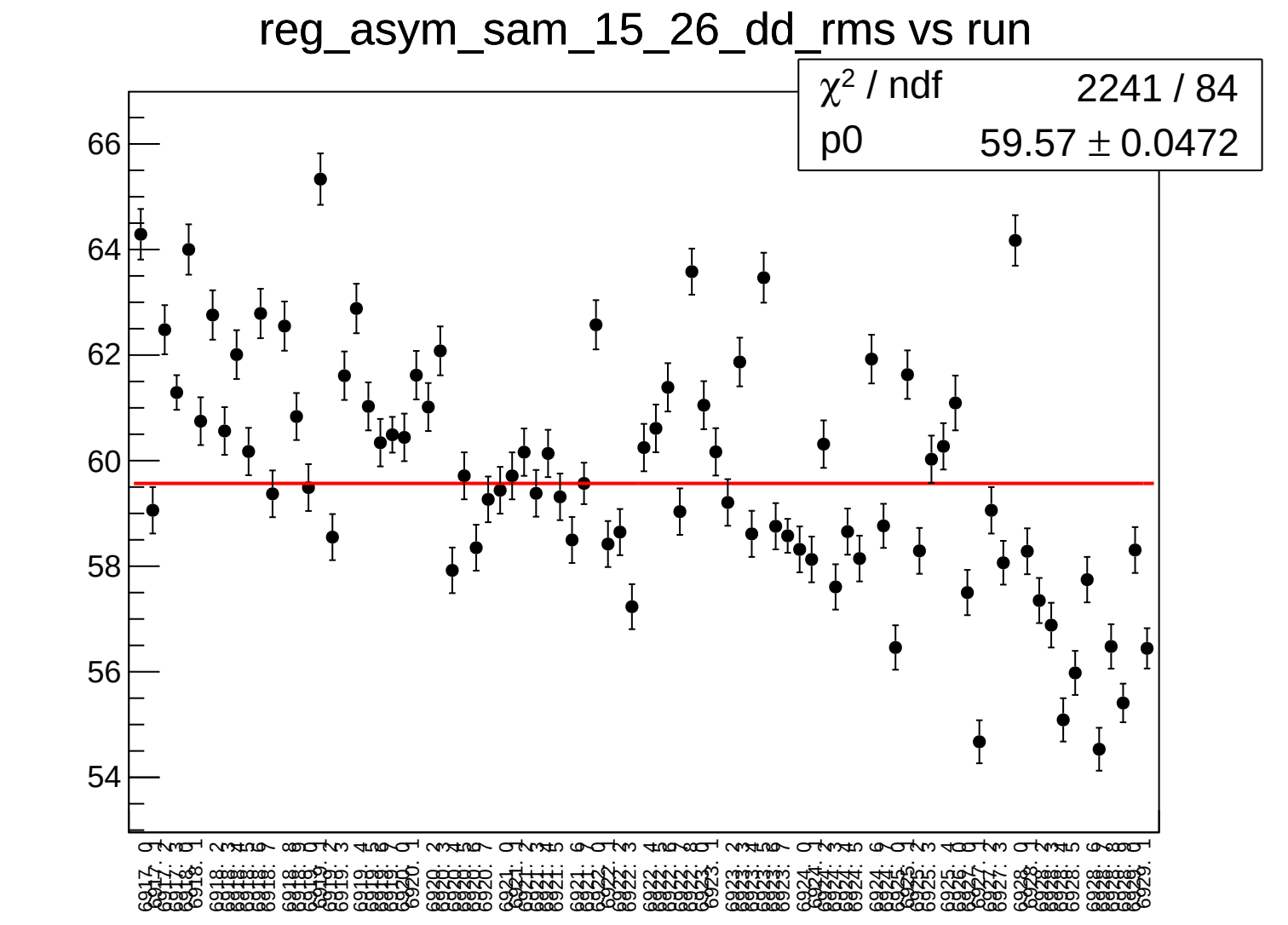

asym_sam_37_48_dd_mean vs run
χ² / ndf 84.8 / 84
p0 −1087 ± 460.6
pull
Entries 85
Mean 200
Std Dev 174.3

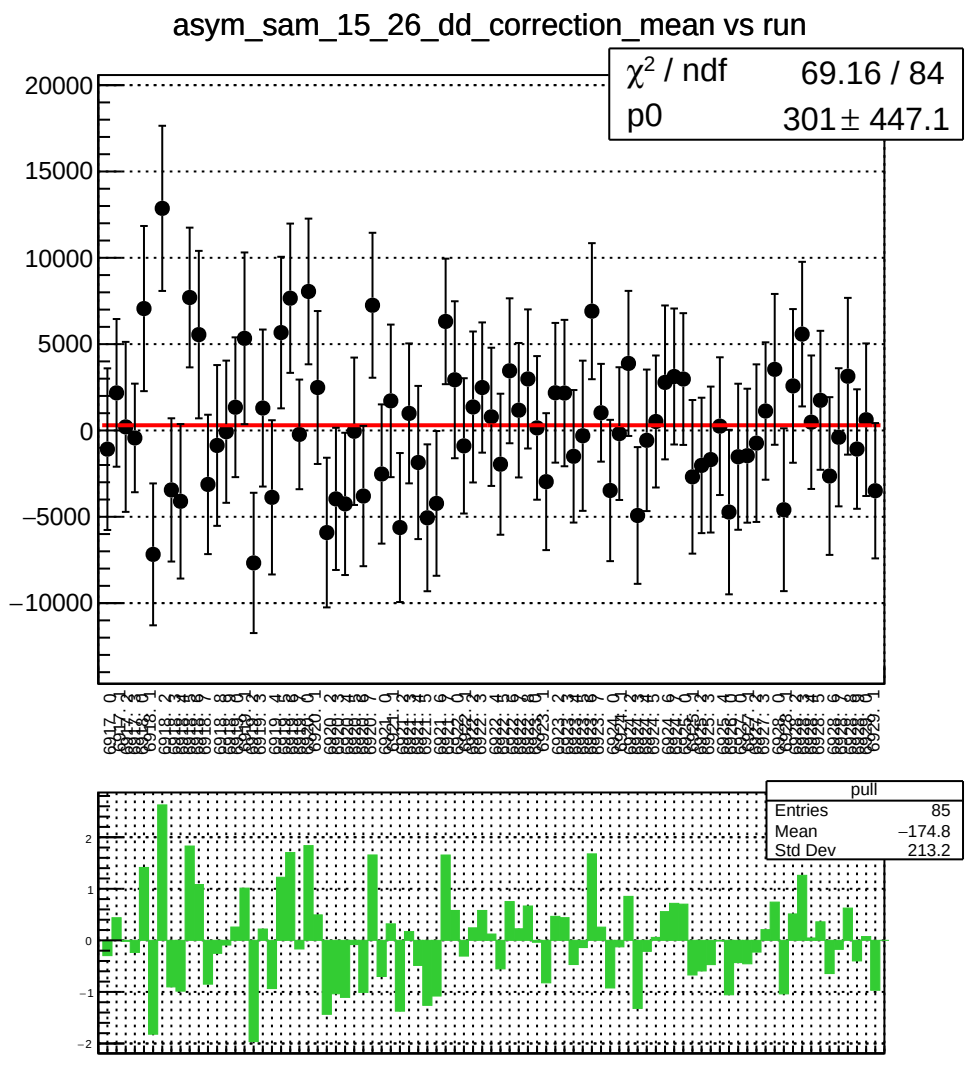

pull1D
Entries 85
Mean 0.00767
Std Dev 0.9988

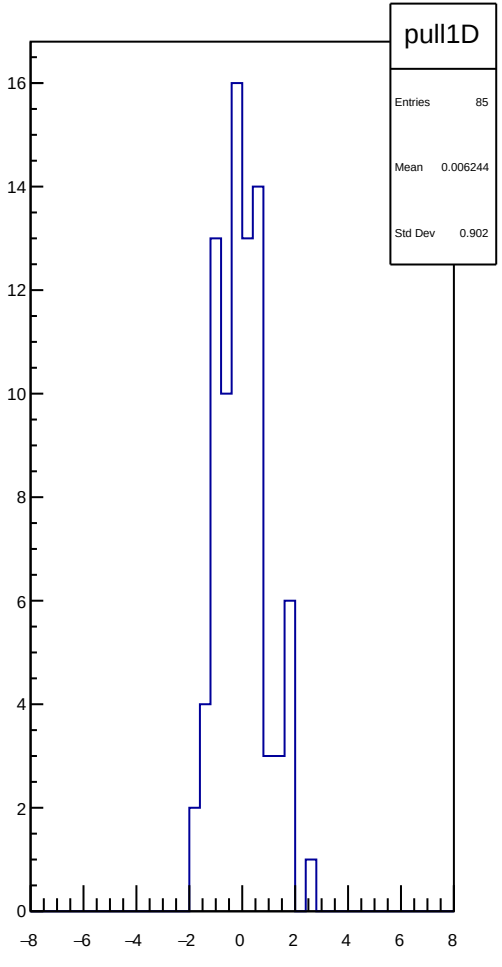

asym_sam_37_48_dd_rms vs run
χ² / ndf 3759 / 84
p0 410.8 ± 0.3257
460
440
420
400
380
360

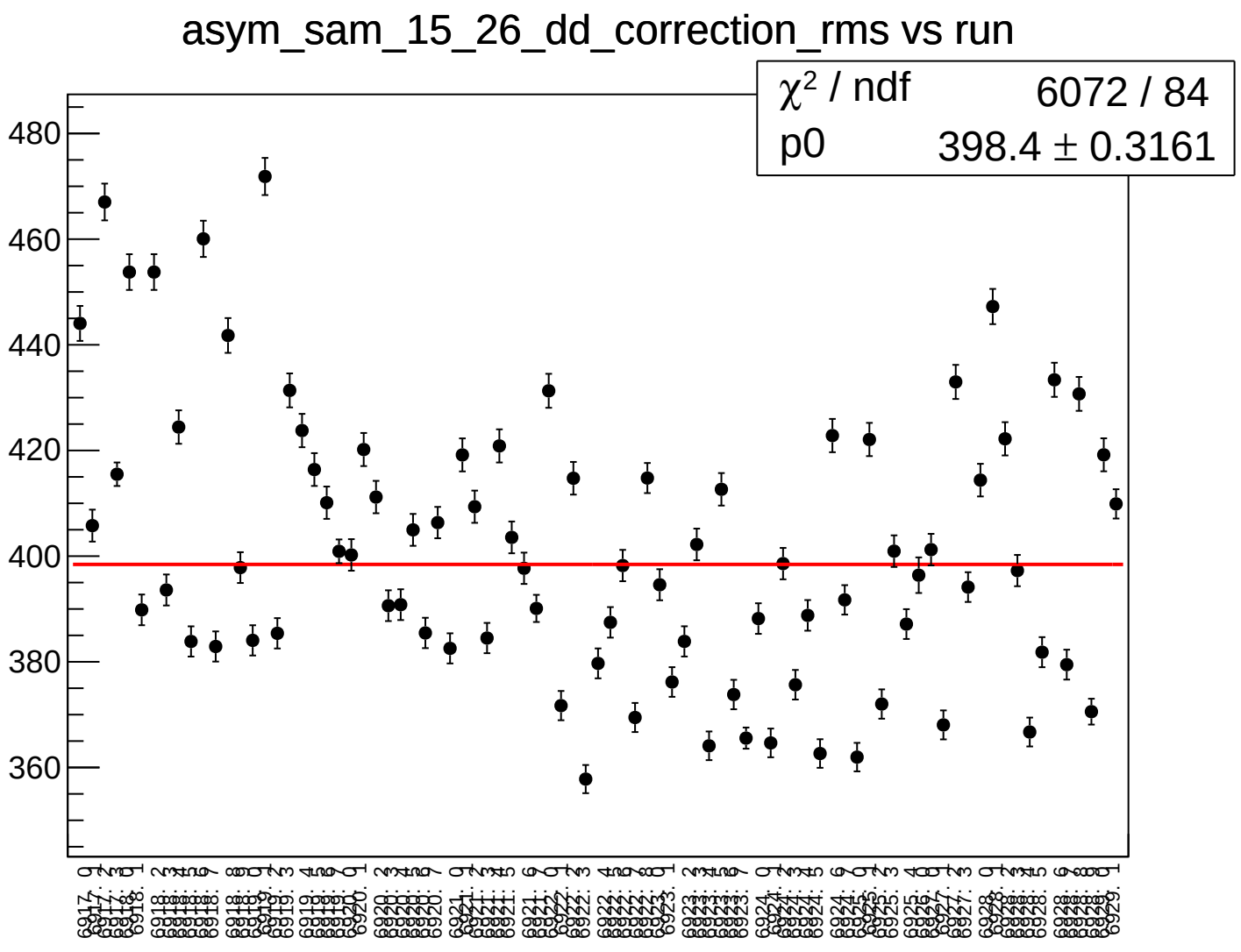

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 100 / 84
p0 −39.35 ± 66.76
pull
Entries 85
Mean −1556
Std Dev 1606

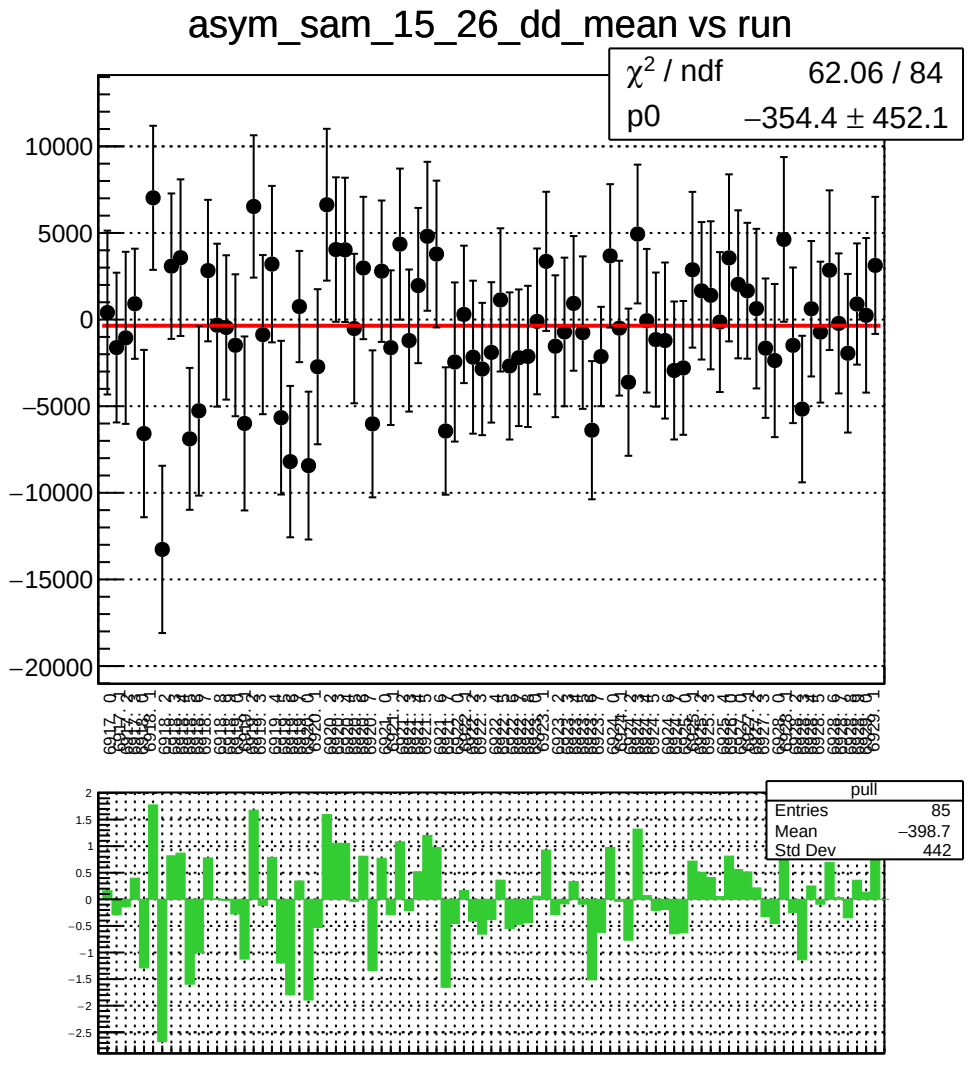

pull1D
Entries 85
Mean −0.003751
Std Dev 1.085

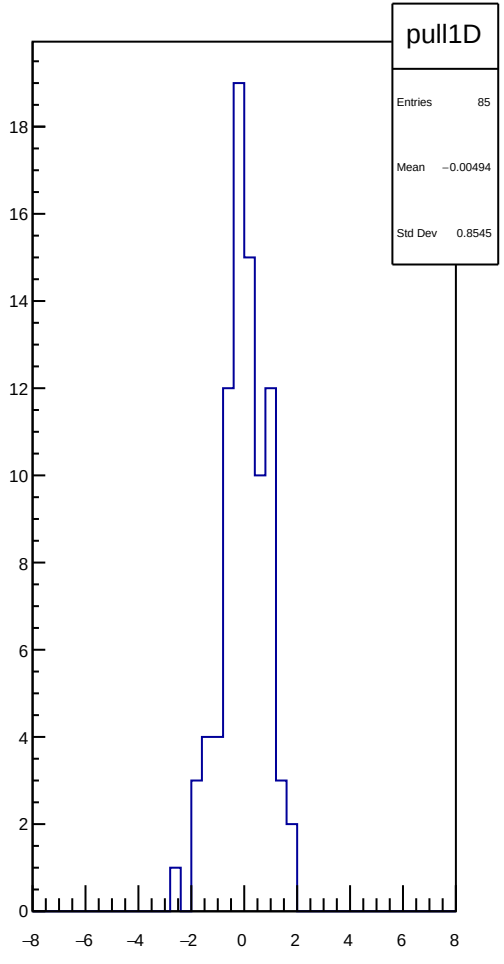

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2241 / 84
p0 59.57 ± 0.0472
66
64
62
60
58
56
54

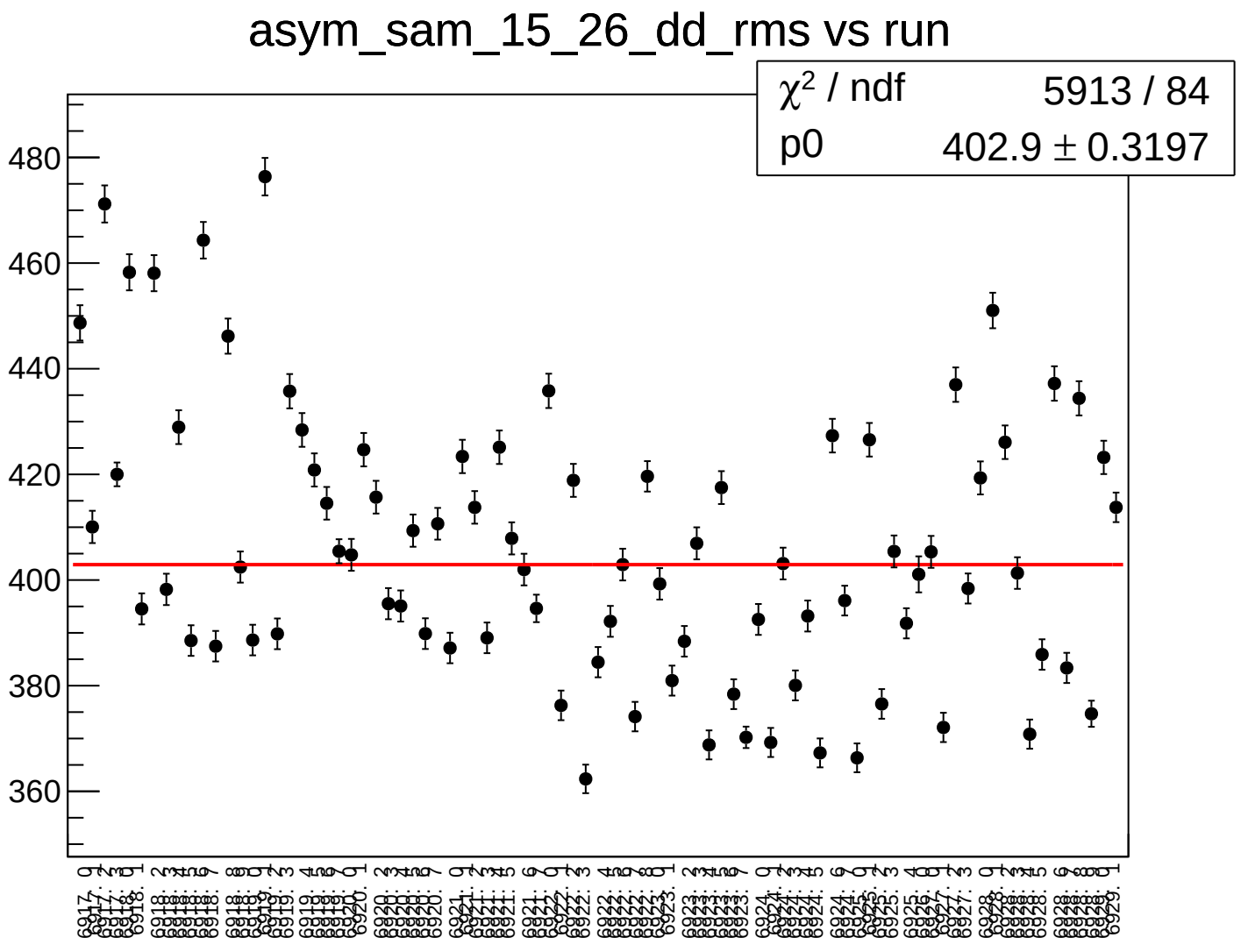

asym_sam_15_26_dd_correction_mean vs run
χ^2 / ndf 69.16 / 84
p0 301 ± 447.1
pull
Entries 85
Mean −174.8
Std Dev 213.2

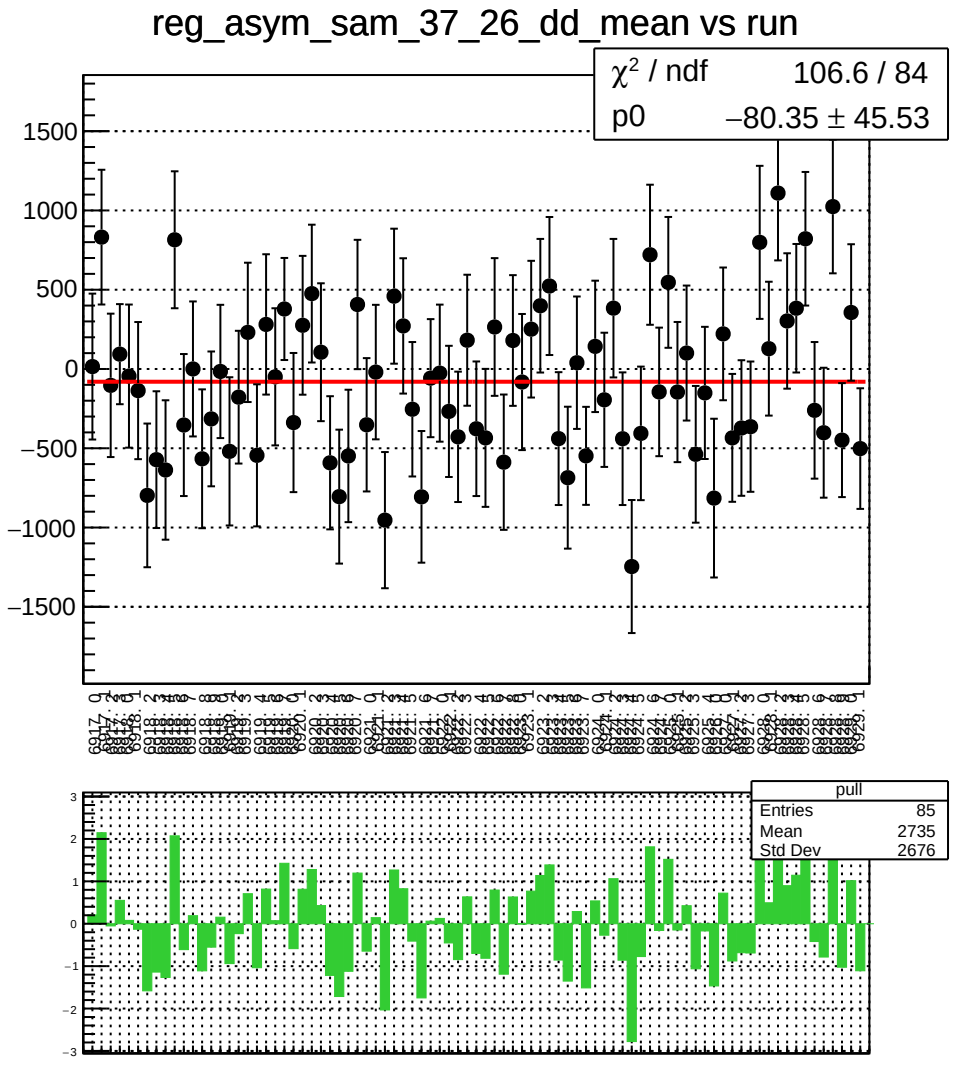

pull1D
Entries 85
Mean 0.006244
Std Dev 0.902

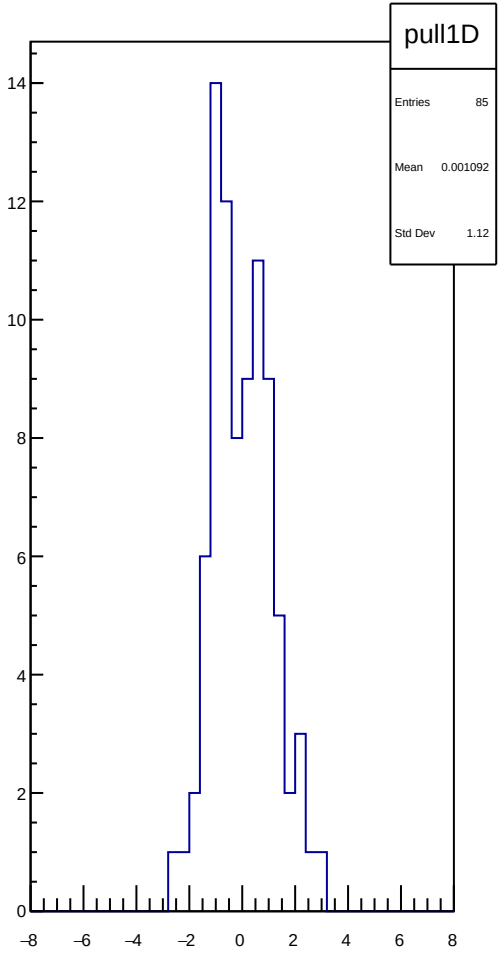

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 6072 / 84
p0 398.4 ± 0.3161
480
460
440
420
400
380
360

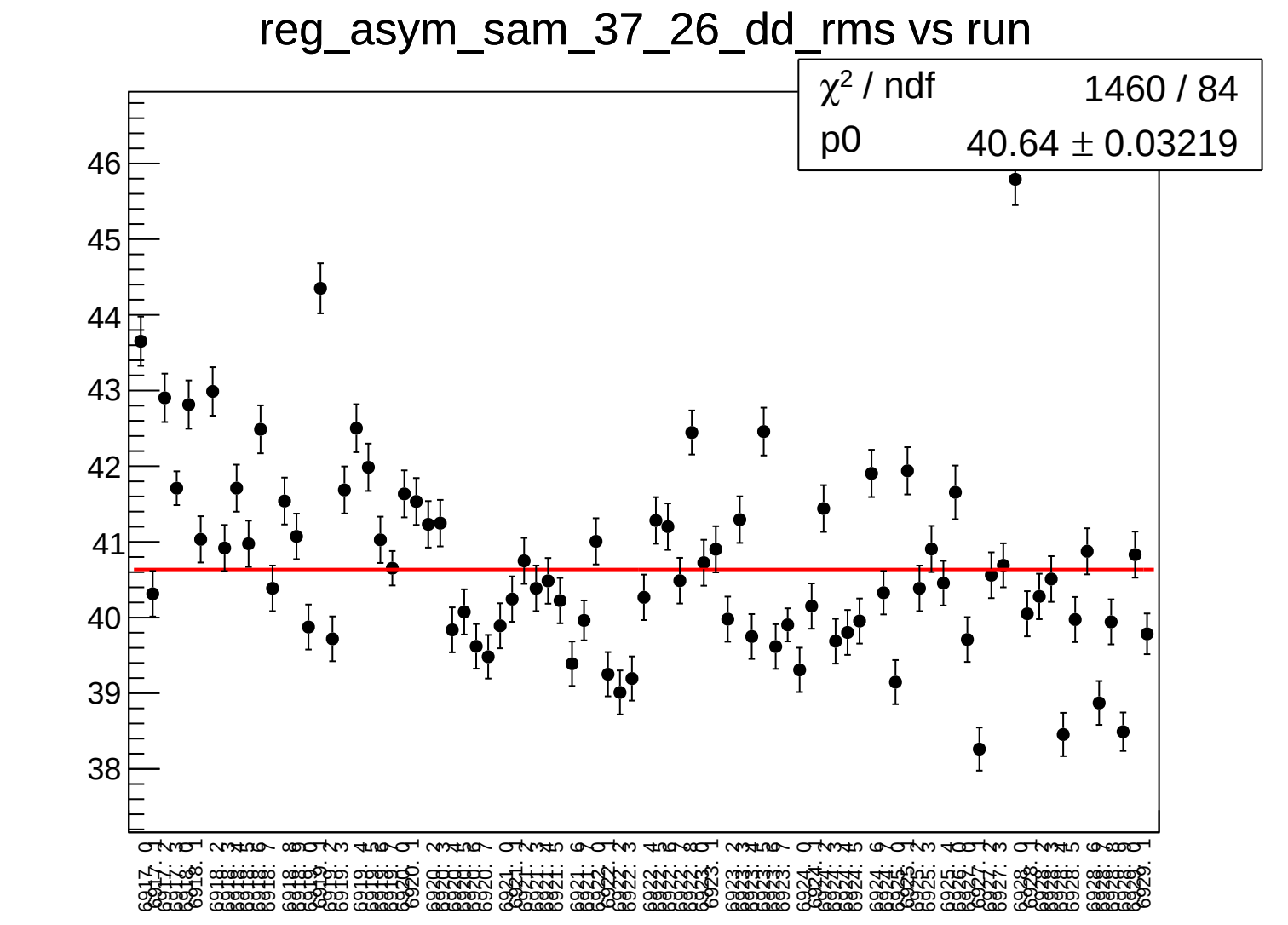

asym_sam_15_26_dd_mean vs run
χ² / ndf 62.06 / 84
p0 −354.4 ± 452.1
pull
Entries 85
Mean −398.7
Std Dev 442

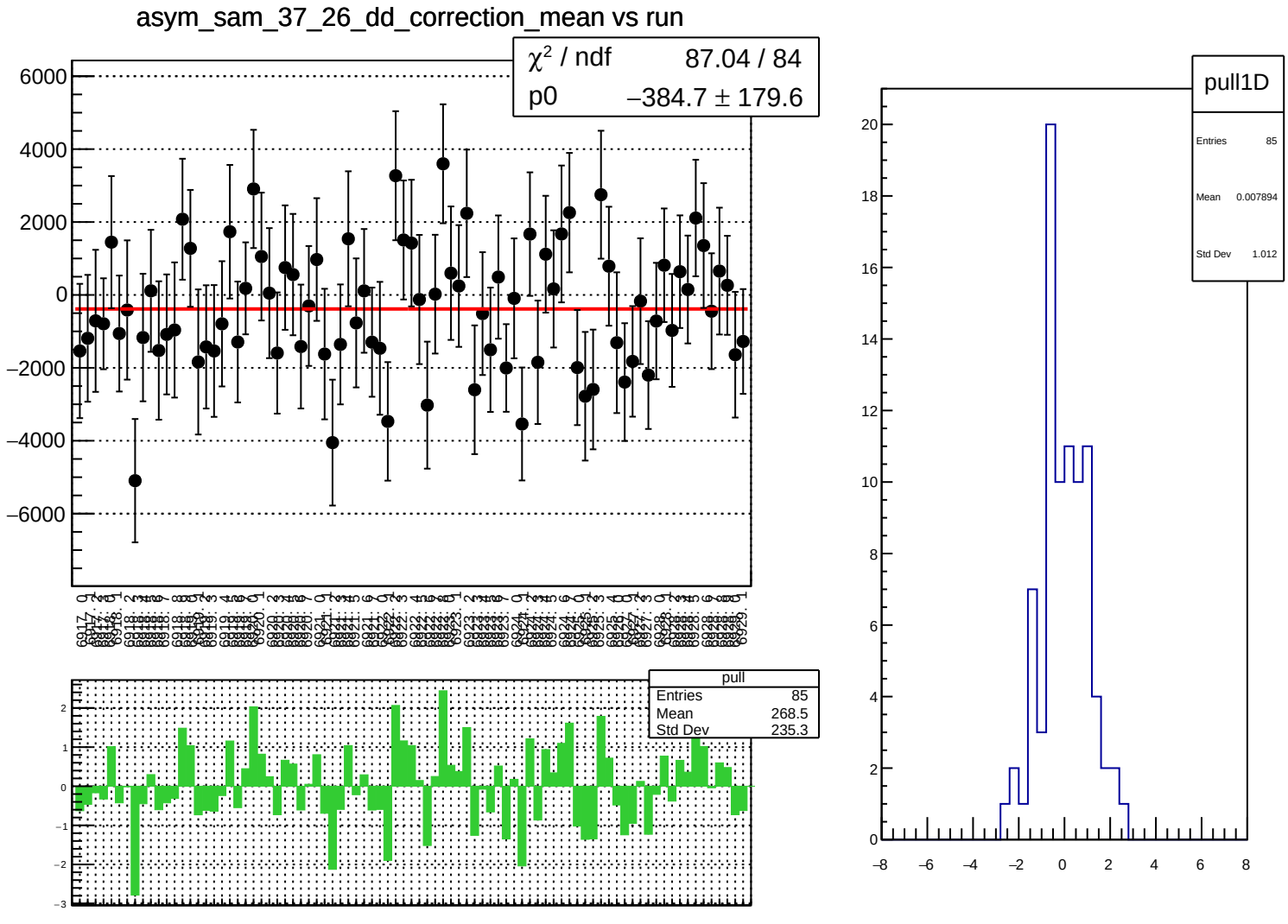

pull1D
Entries 85
Mean −0.00494
Std Dev 0.8545

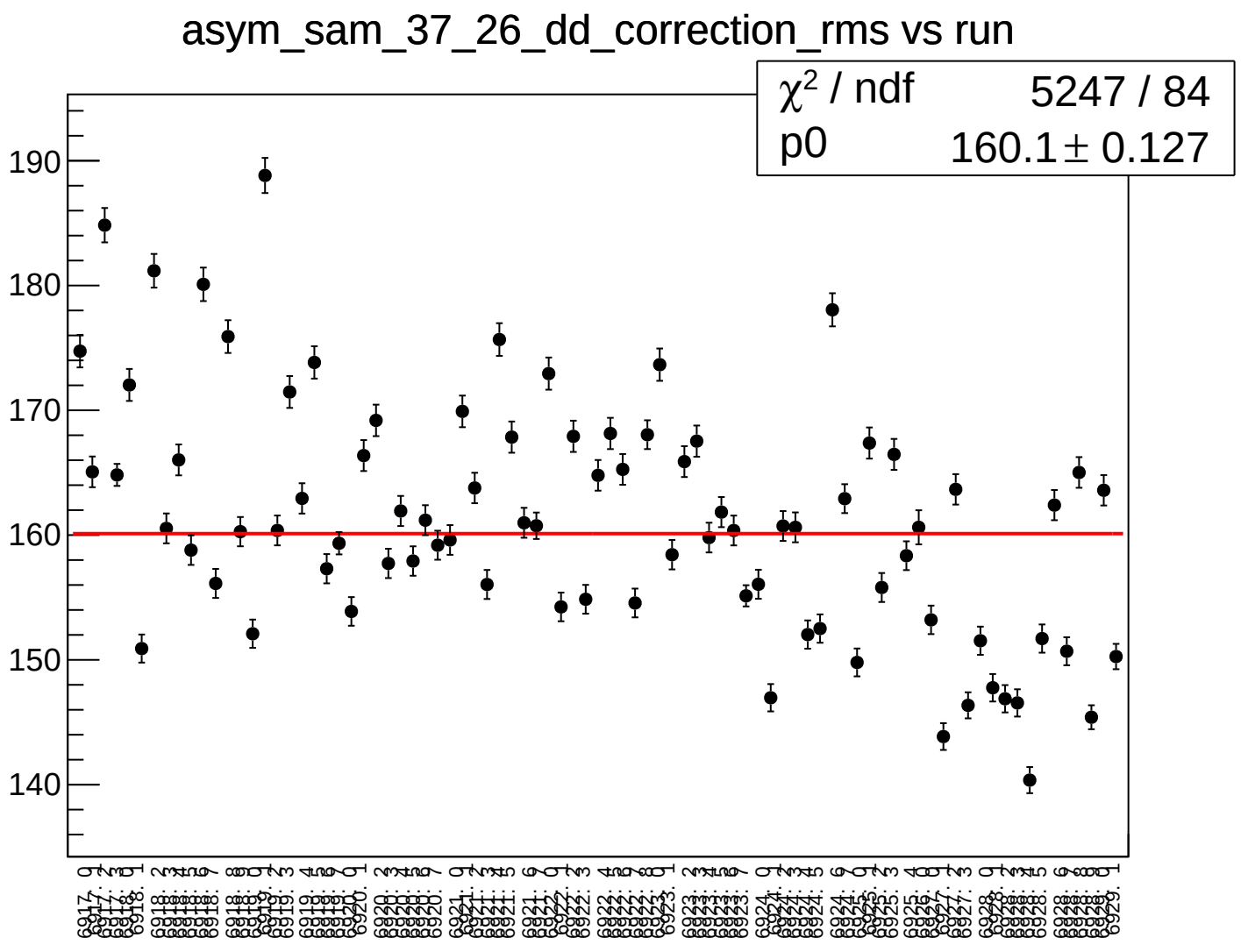

asym_sam_15_26_dd_rms vs run
χ² / ndf 5913 / 84
p0 402.9 ± 0.3197
480
460
440
420
400
380
360

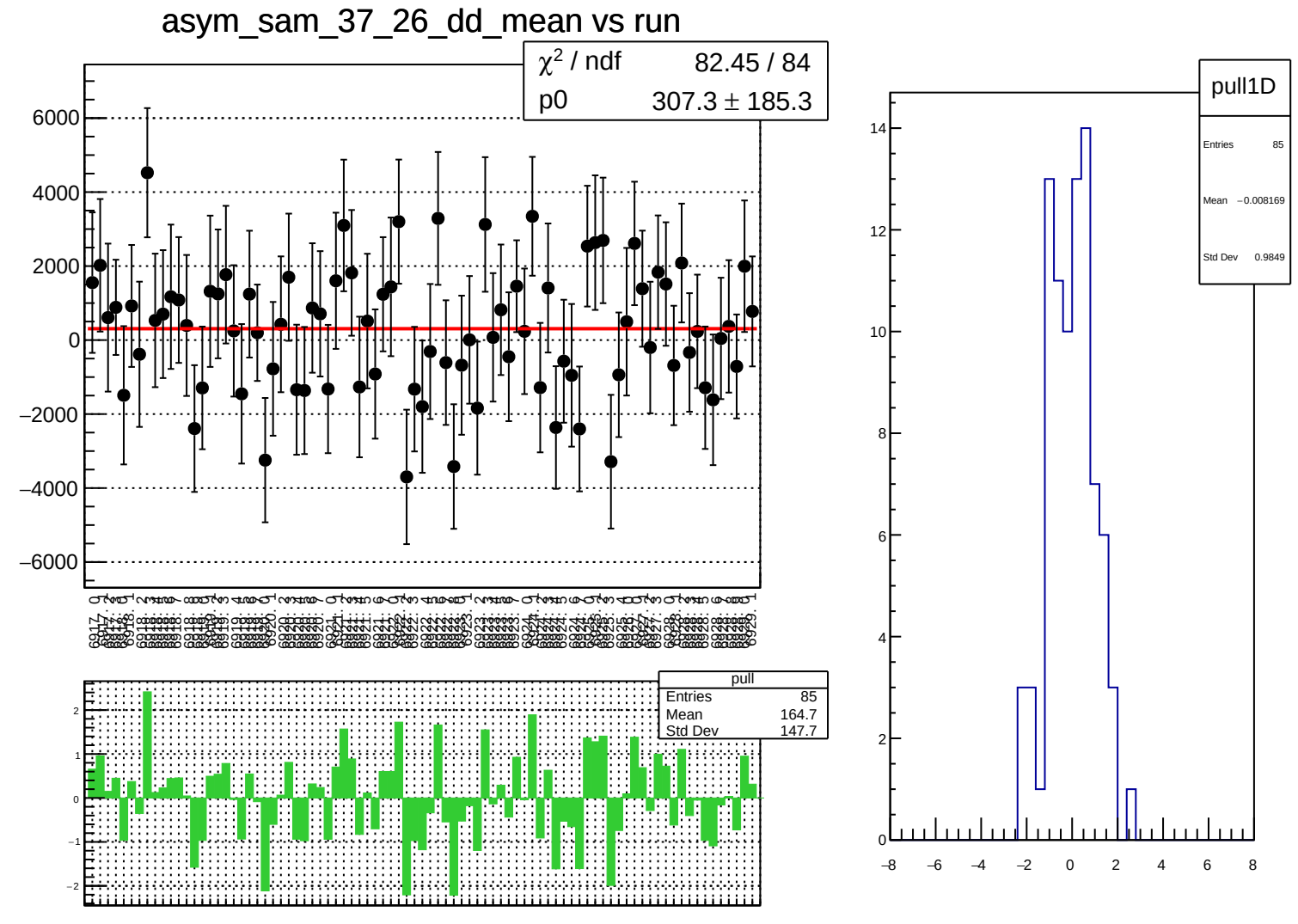

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 106.6 / 84
p0 −80.35 ± 45.53
pull
Entries 85
Mean 2735
Std Dev 2676

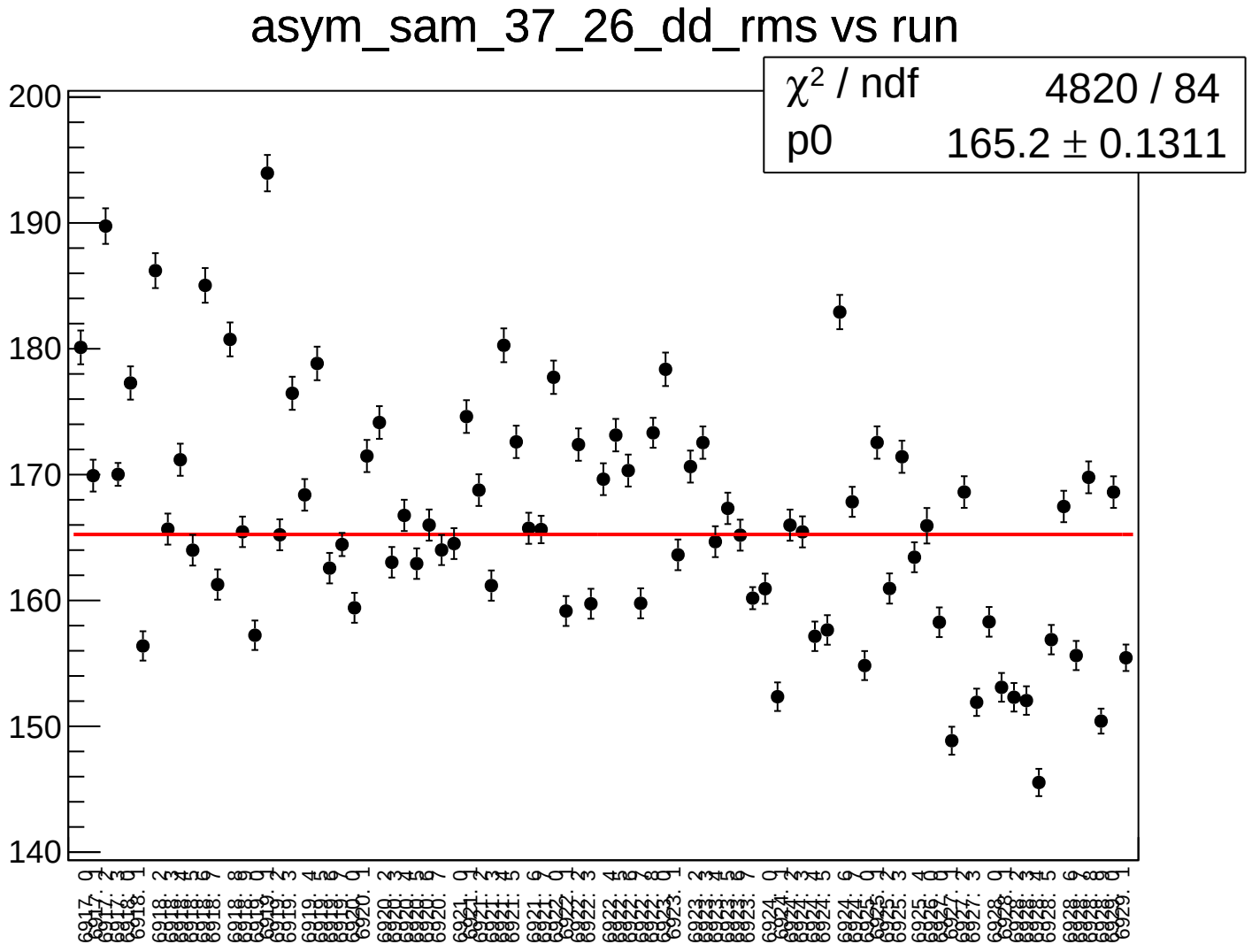

pull1D
Entries 85
Mean 0.001092
Std Dev 1.12

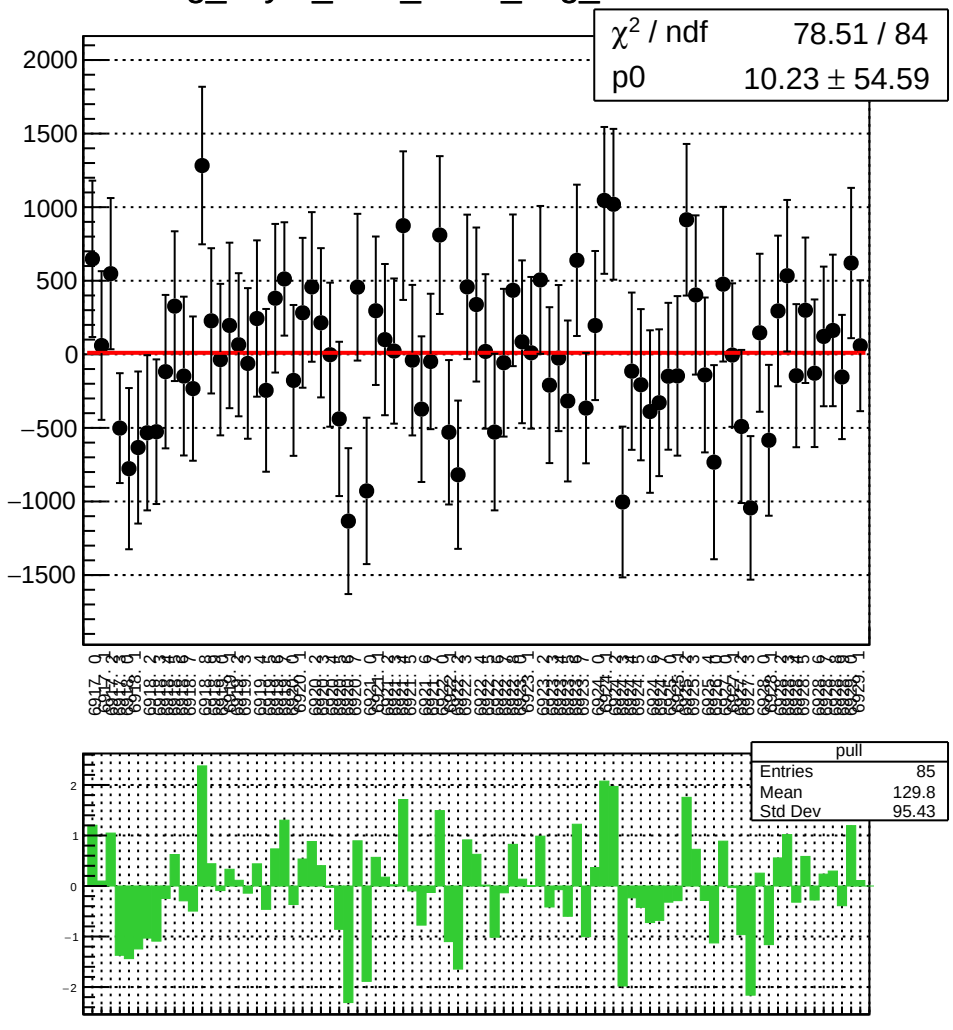

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1460 / 84
p0 40.64 ± 0.03219
46
45
44
43
42
41
40
39
38

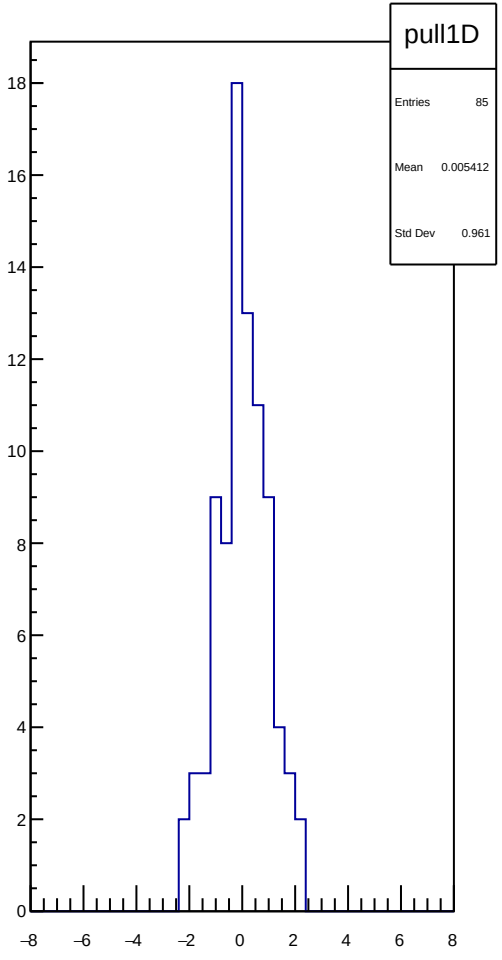

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 87.04 / 84
p0 −384.7 ± 179.6
pull
Entries 85
Mean 268.5
Std Dev 235.3
pull1D
Entries 85
Mean 0.007894
Std Dev 1.012

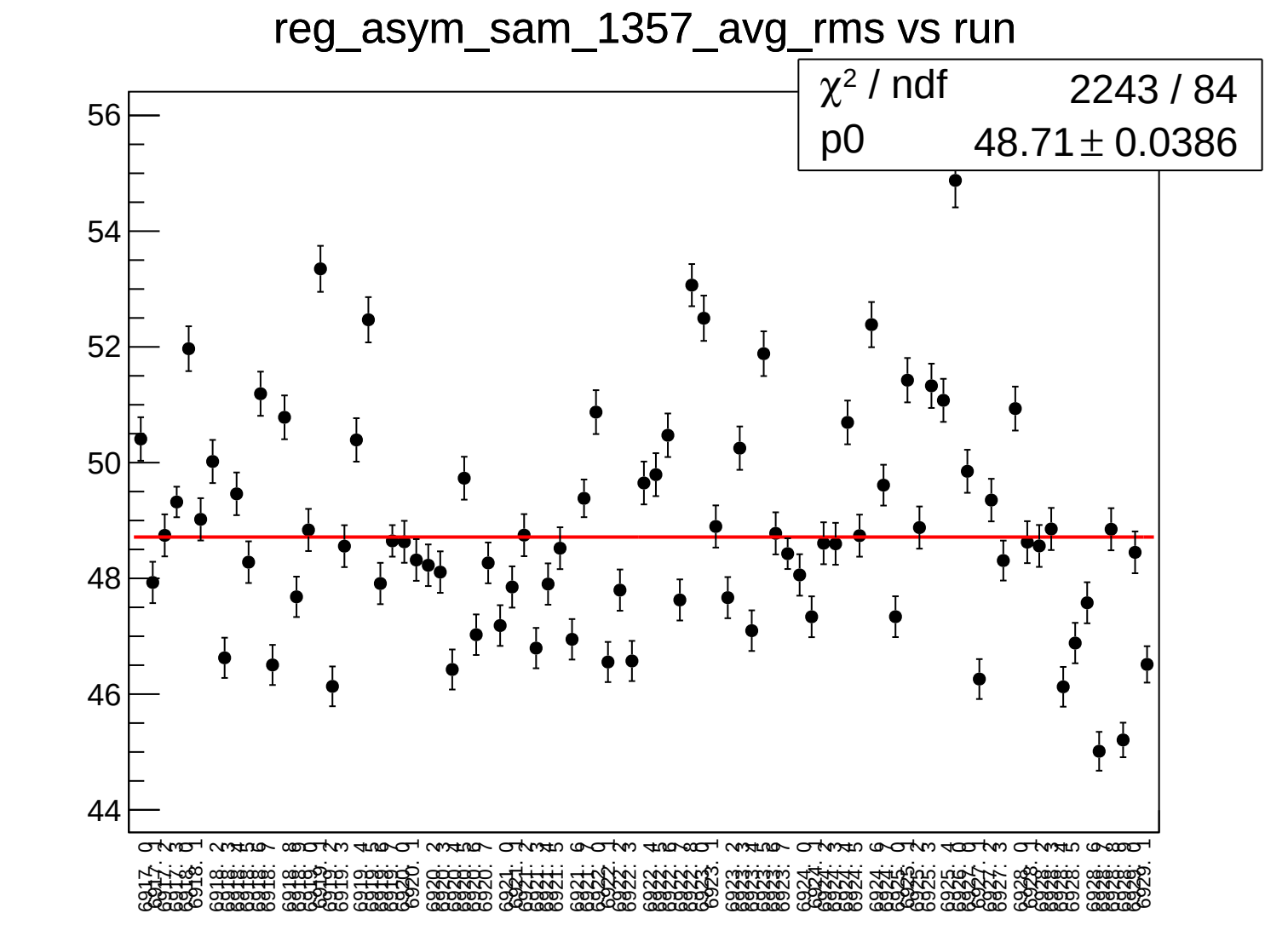

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 5247 / 84
p0 160.1 ± 0.127
190
180
170
160
150
140

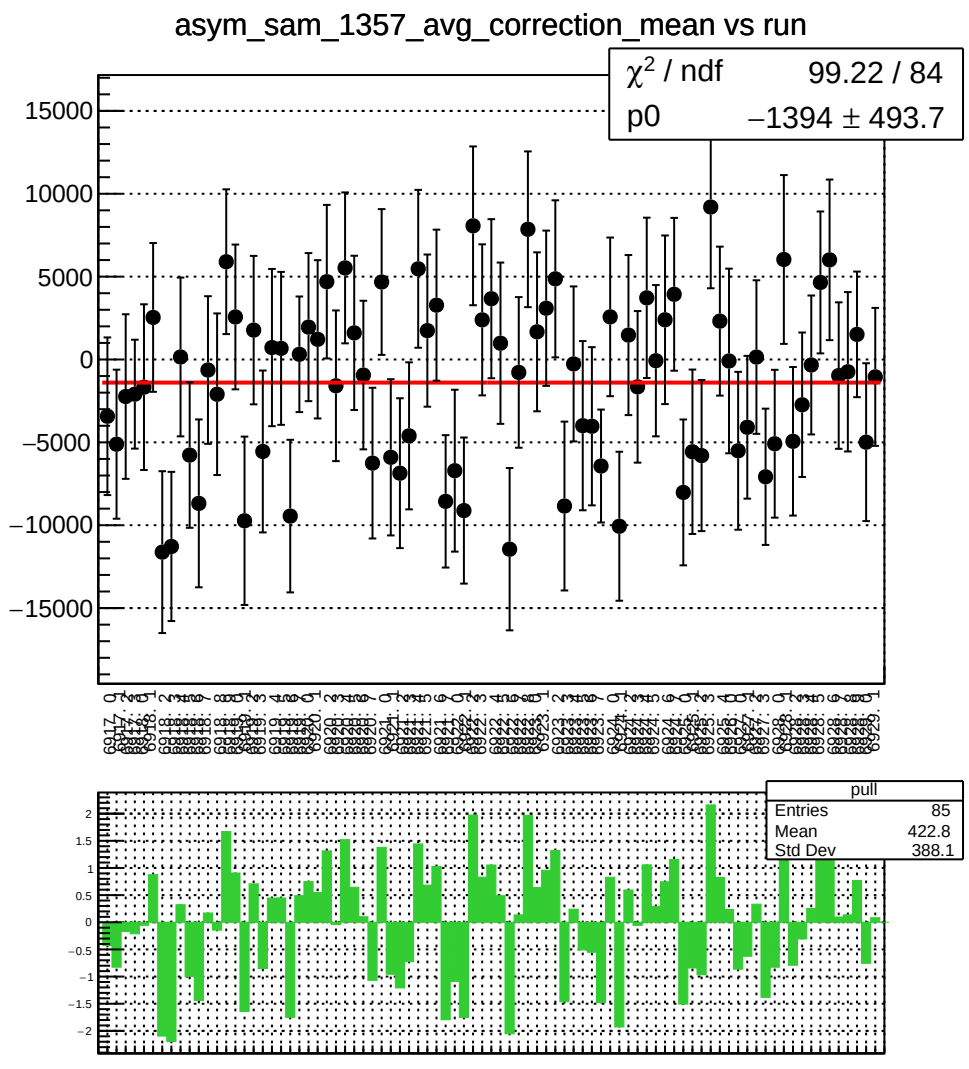

asym_sam_37_26_dd_mean vs run
χ² / ndf 82.45 / 84
p0 307.3 ± 185.3
pull
Entries 85
Mean 164.7
Std Dev 147.7
pull1D
Entries 85
Mean −0.008169
Std Dev 0.9849

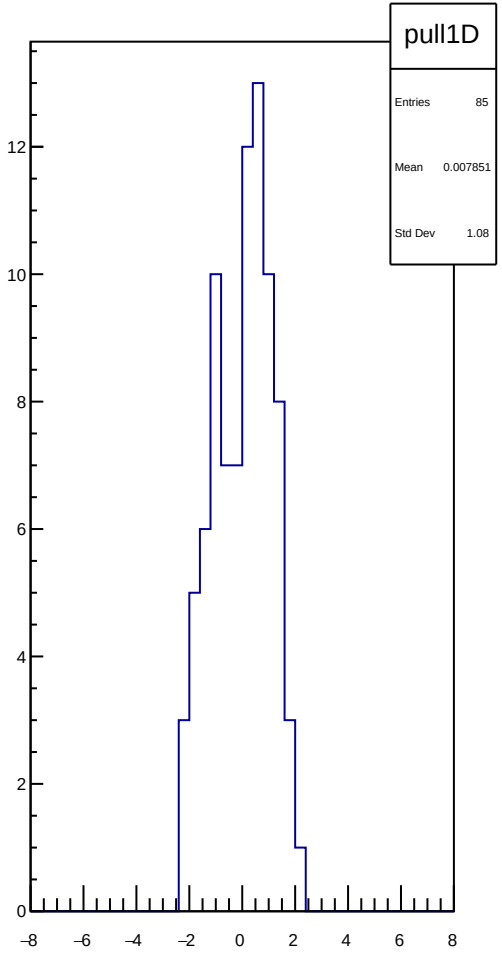

asym_sam_37_26_dd_rms vs run
χ² / ndf 4820 / 84
p0 165.2 ± 0.1311
200
190
180
170
160
150
140

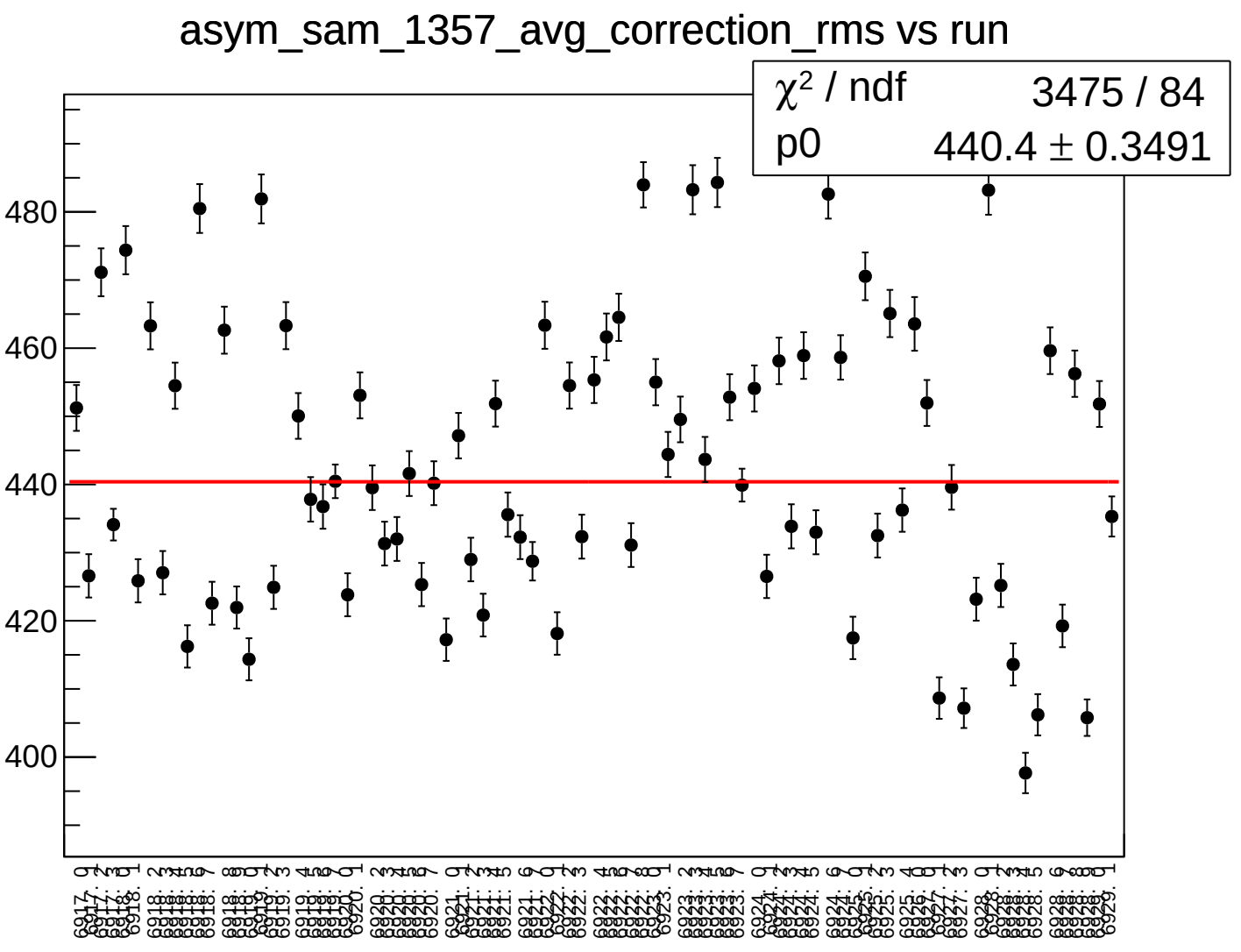

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 78.51 / 84
p0 10.23 ± 54.59
pull
Entries 85
Mean 129.8
Std Dev 95.43

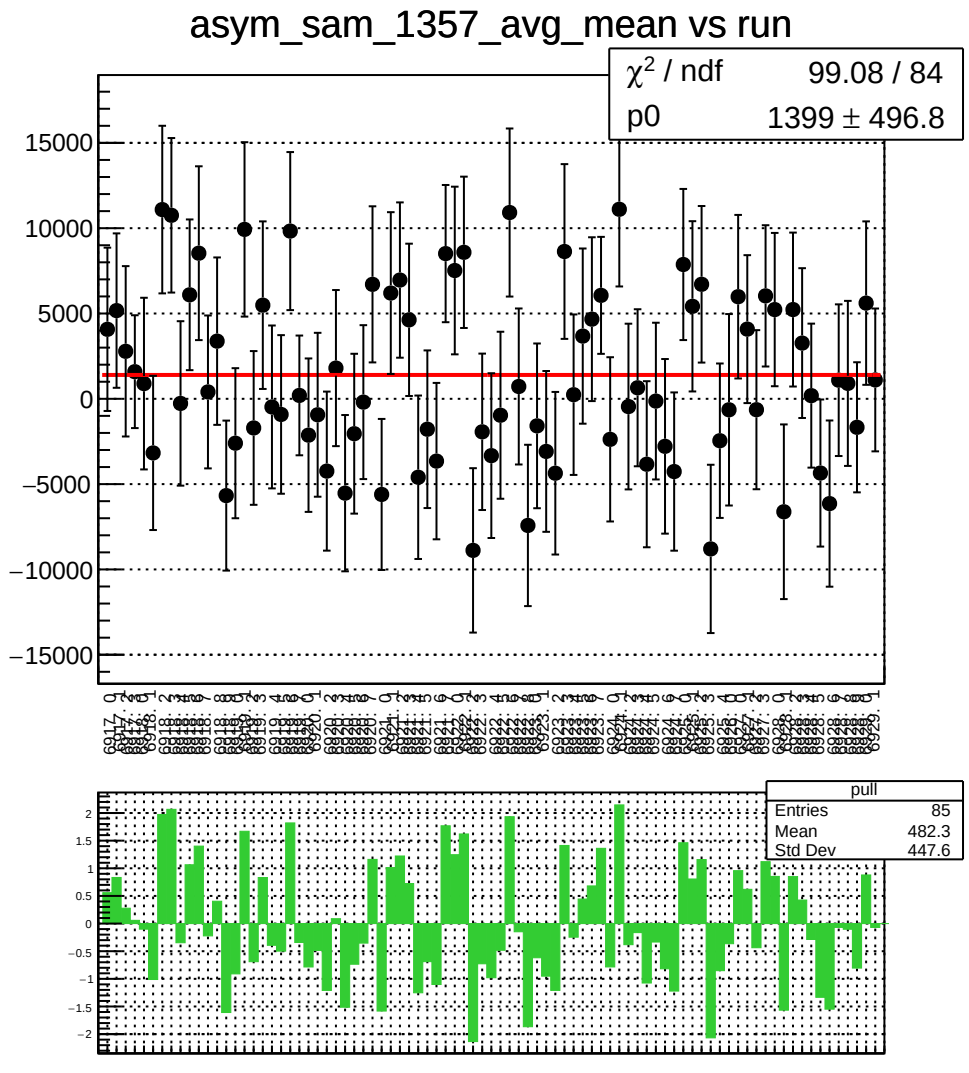

pull1D
Entries 85
Mean 0.005412
Std Dev 0.961

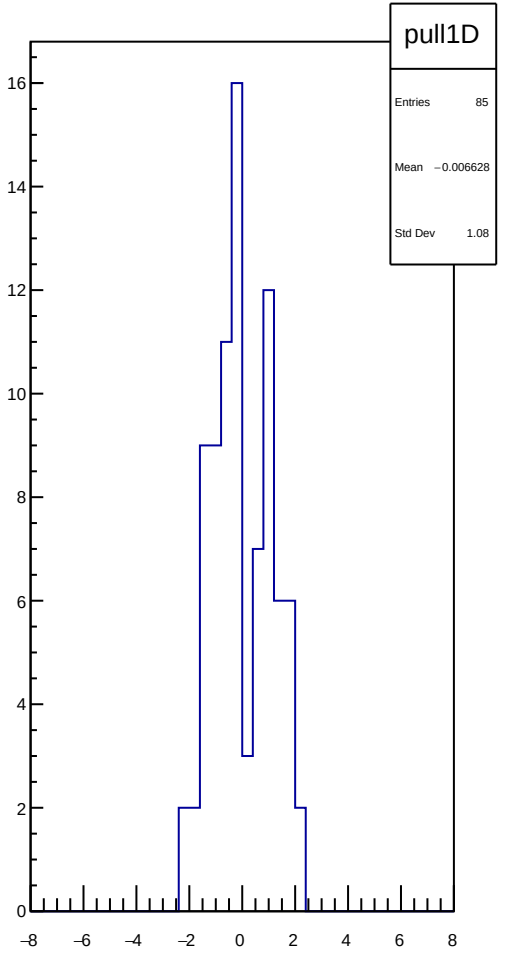

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2243 / 84
p0 48.71 ± 0.0386
56
54
52
50
48
46
44

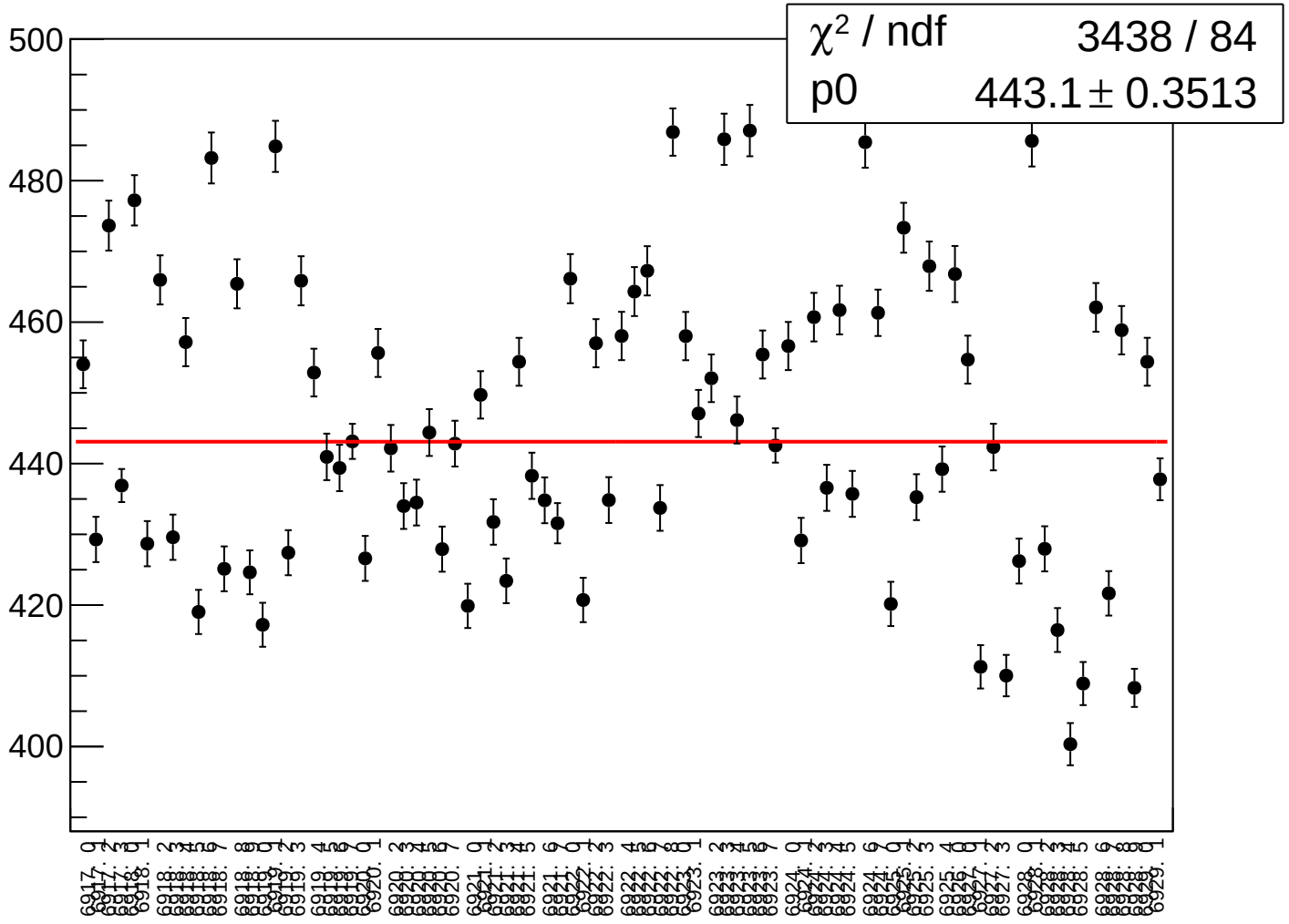

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 99.22 / 84
p0 −1394 ± 493.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 422.8
Std Dev 388.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

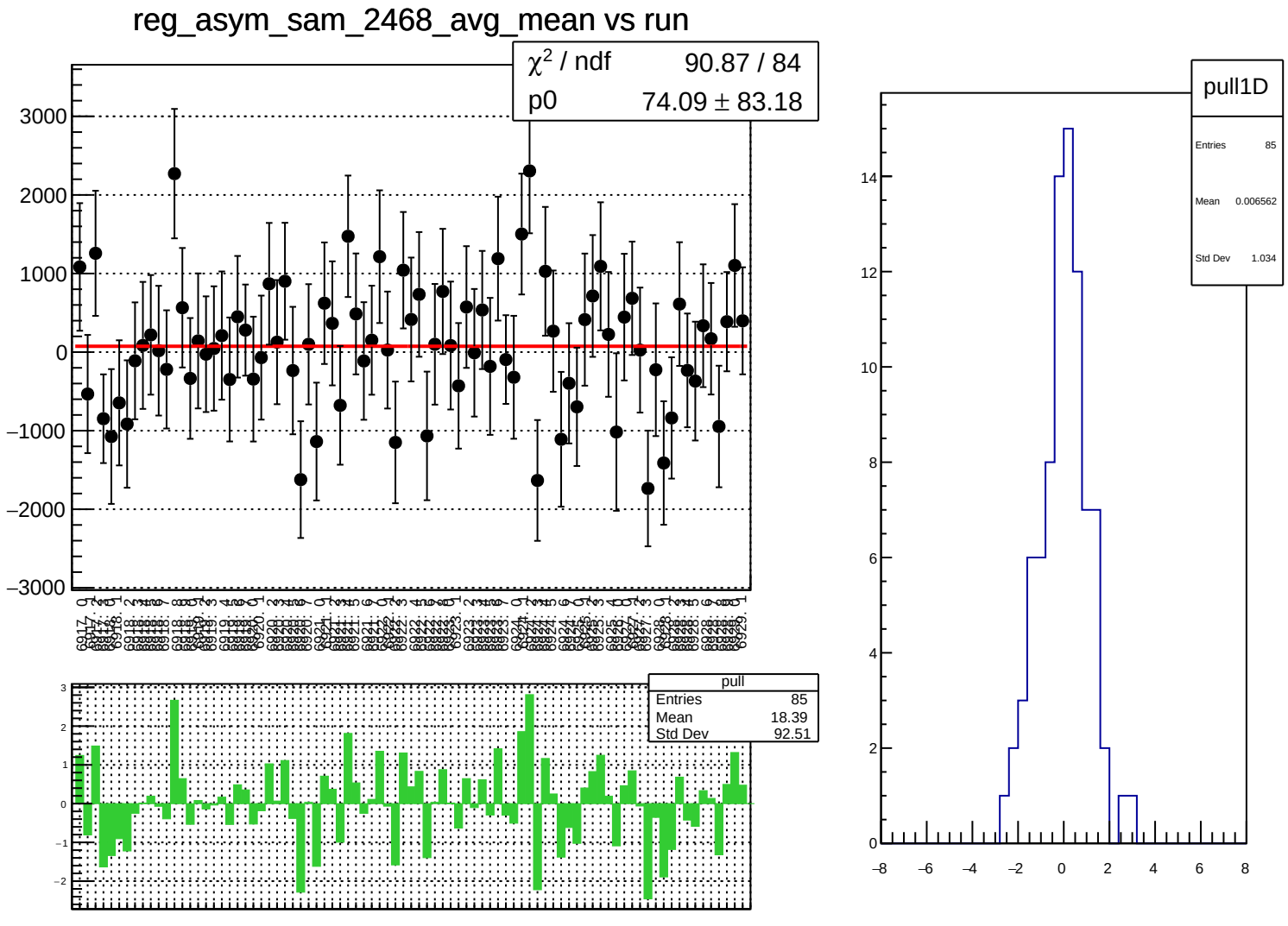

pull1D
Entries 85
Mean 0.007851
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

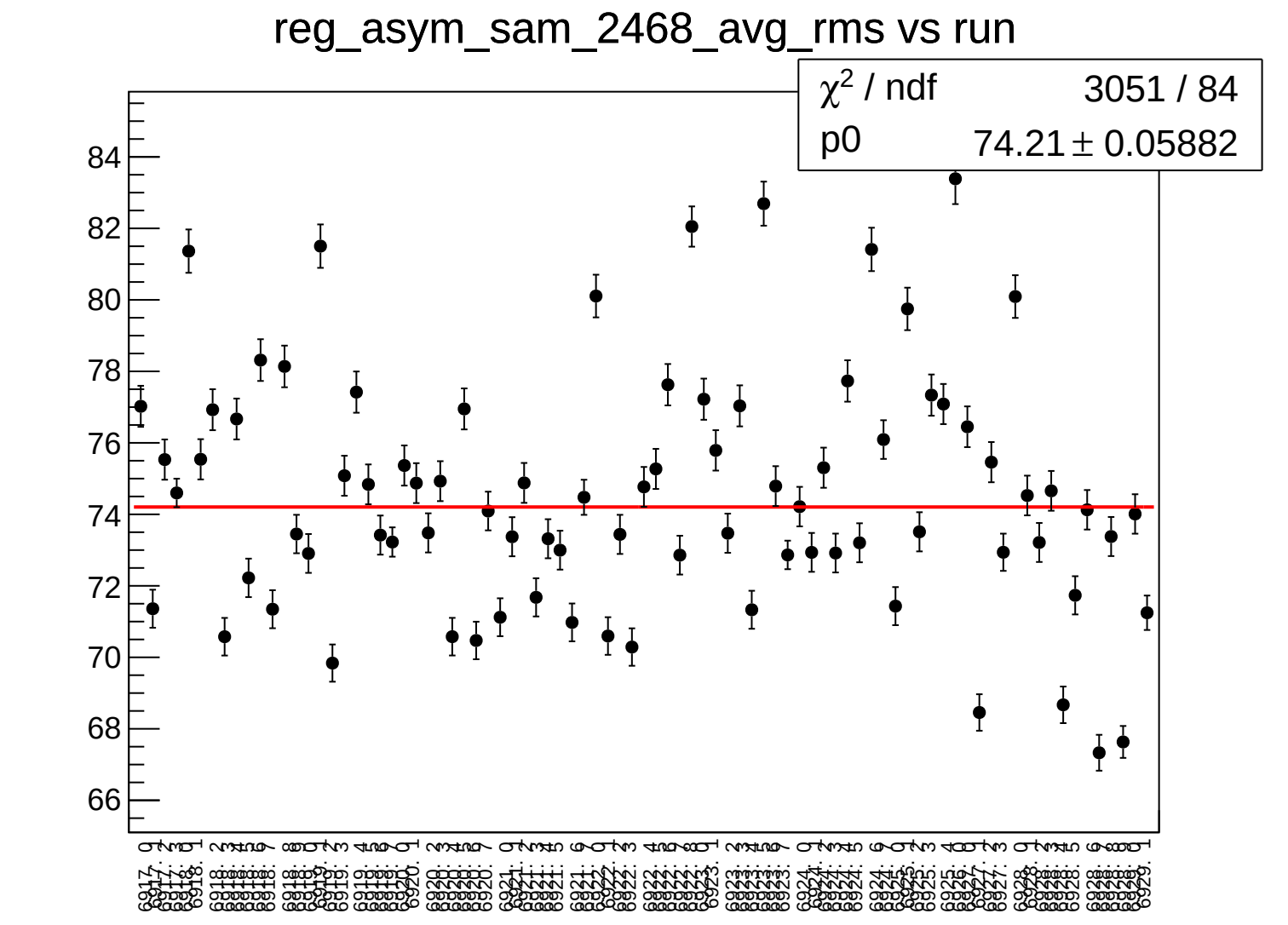

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 3475 / 84
p0 440.4 ± 0.3491
480
460
440
420
400

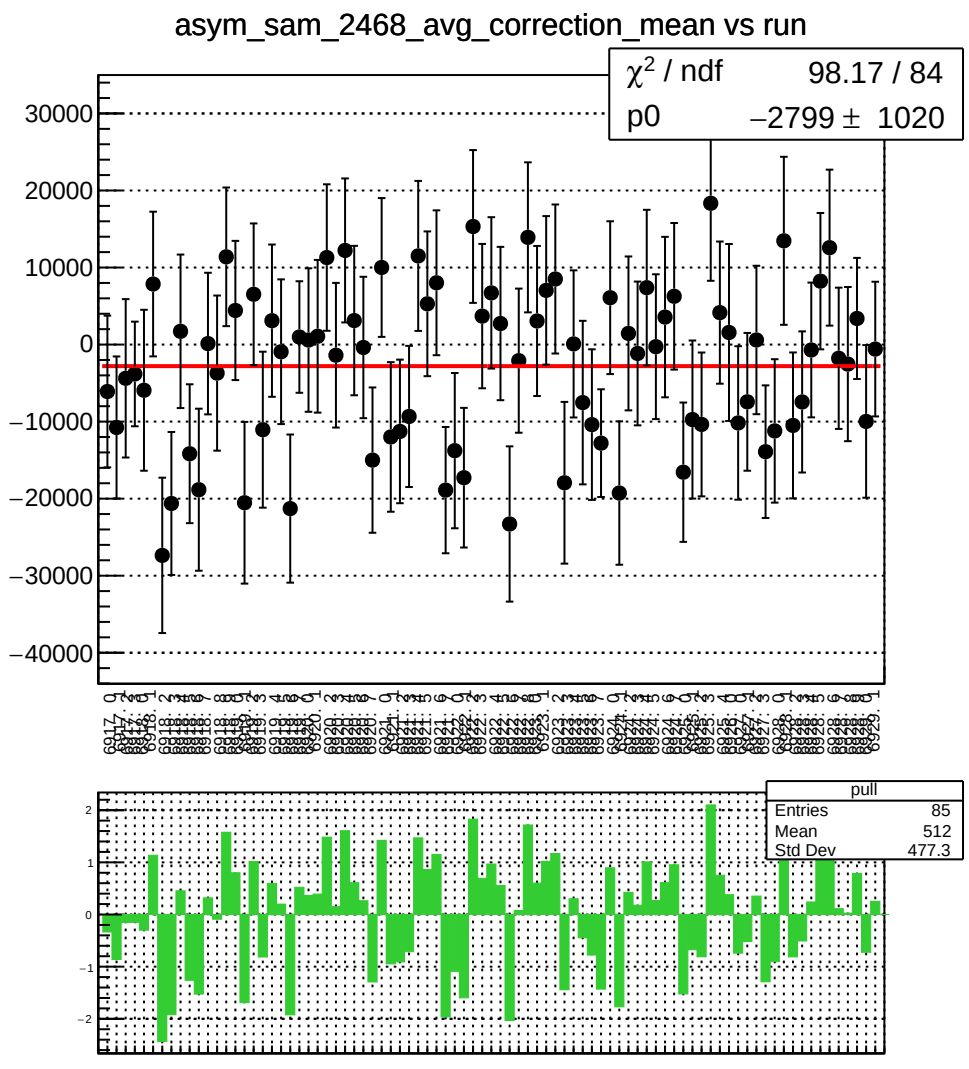

asym_sam_1357_avg_mean vs run
χ² / ndf 99.08 / 84
p0 1399 ± 496.8
pull
Entries 85
Mean 482.3
Std Dev 447.6

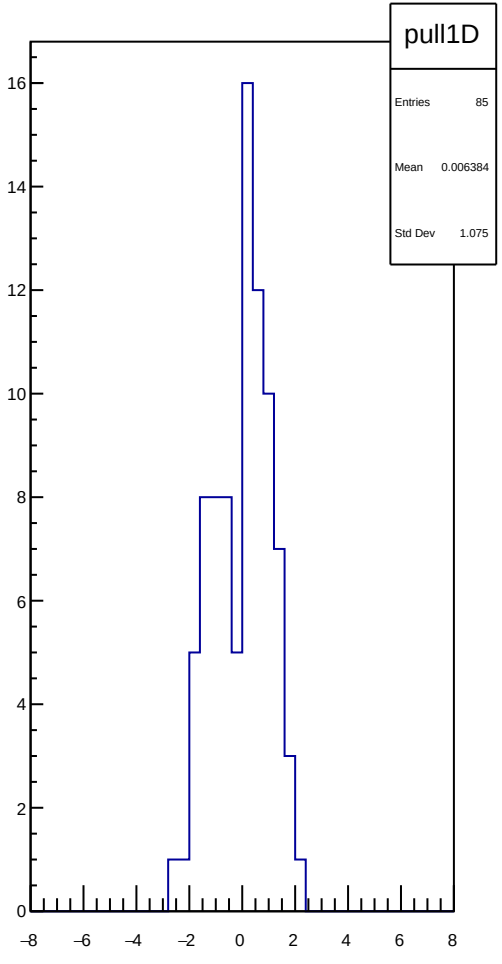

pull1D
Entries 85
Mean −0.006628
Std Dev 1.08

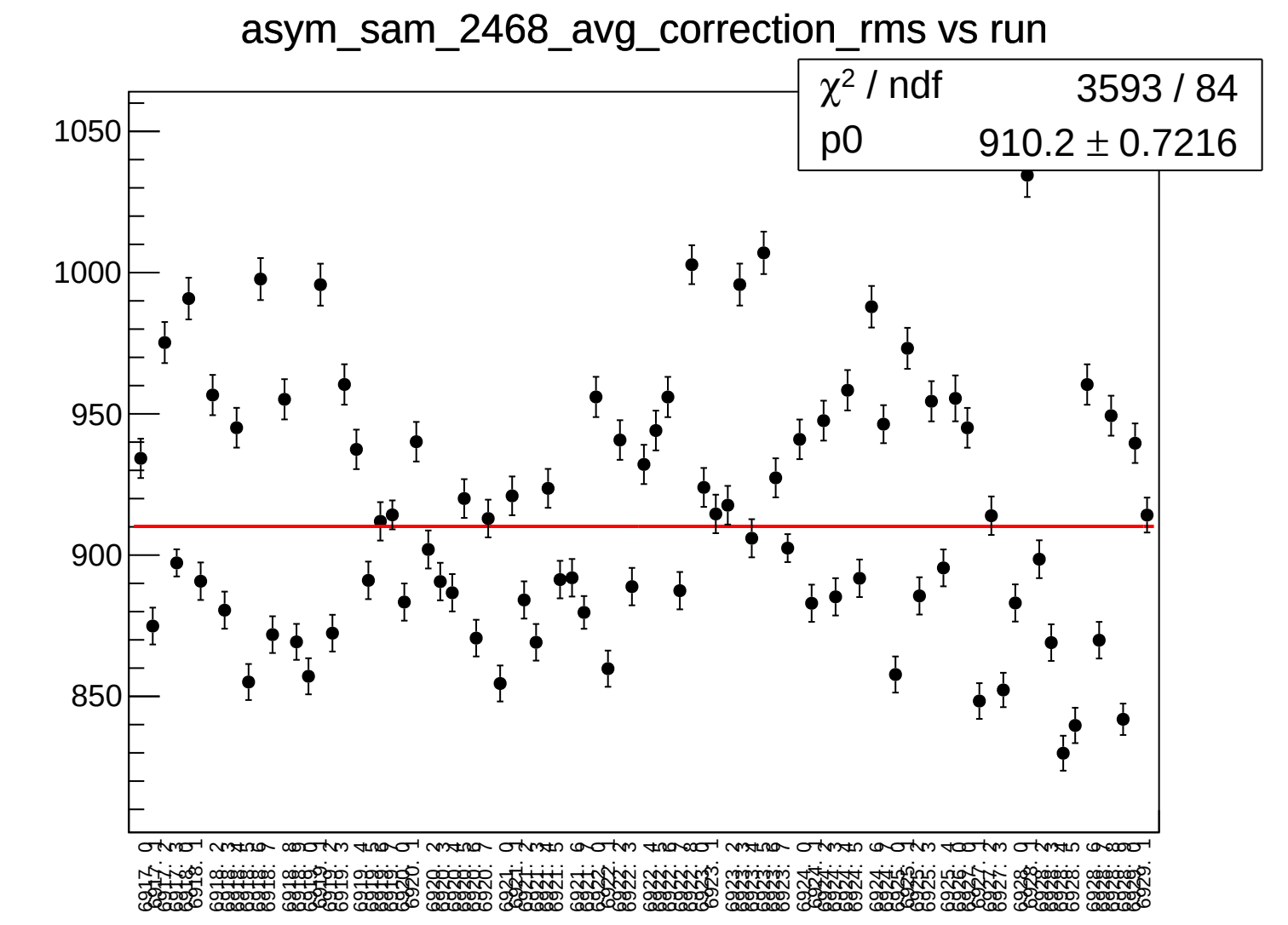

asym_sam_1357_avg_rms vs run
χ² / ndf 3438 / 84
p0 443.1 ± 0.3513
500
480
460
440
420
400

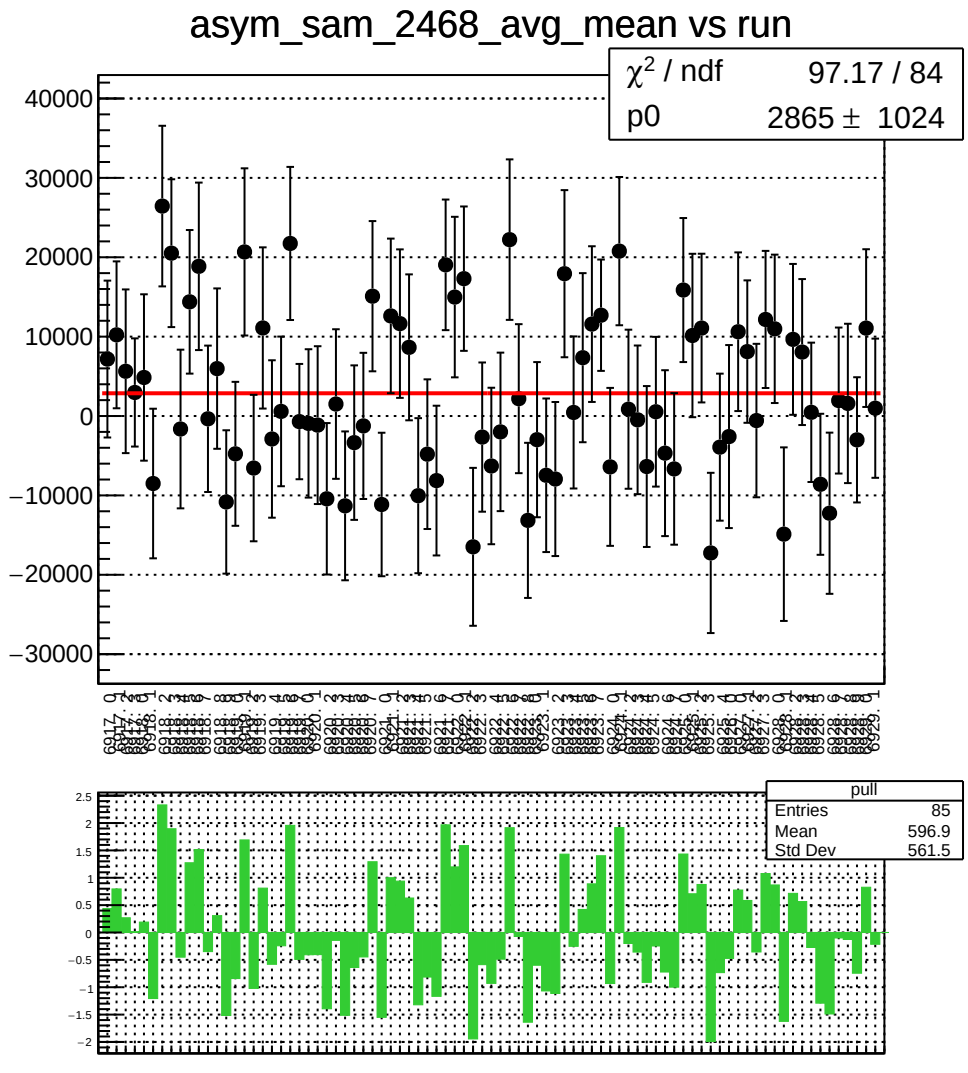

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 90.87 / 84
p0 74.09 ± 83.18
pull
Entries 85
Mean 18.39
Std Dev 92.51
pull1D
Entries 85
Mean 0.006562
Std Dev 1.034

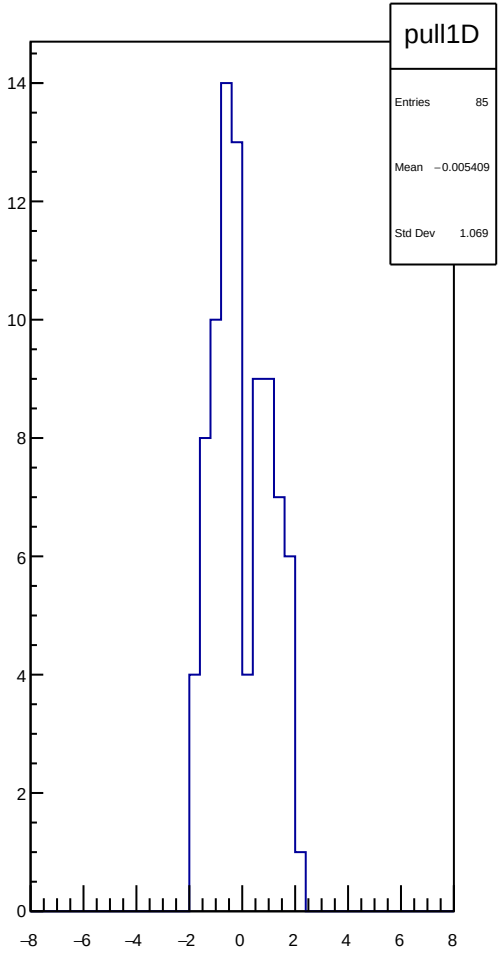

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3051 / 84
p0 74.21 ± 0.05882
84
82
80
78
76
74
72
70
68
66

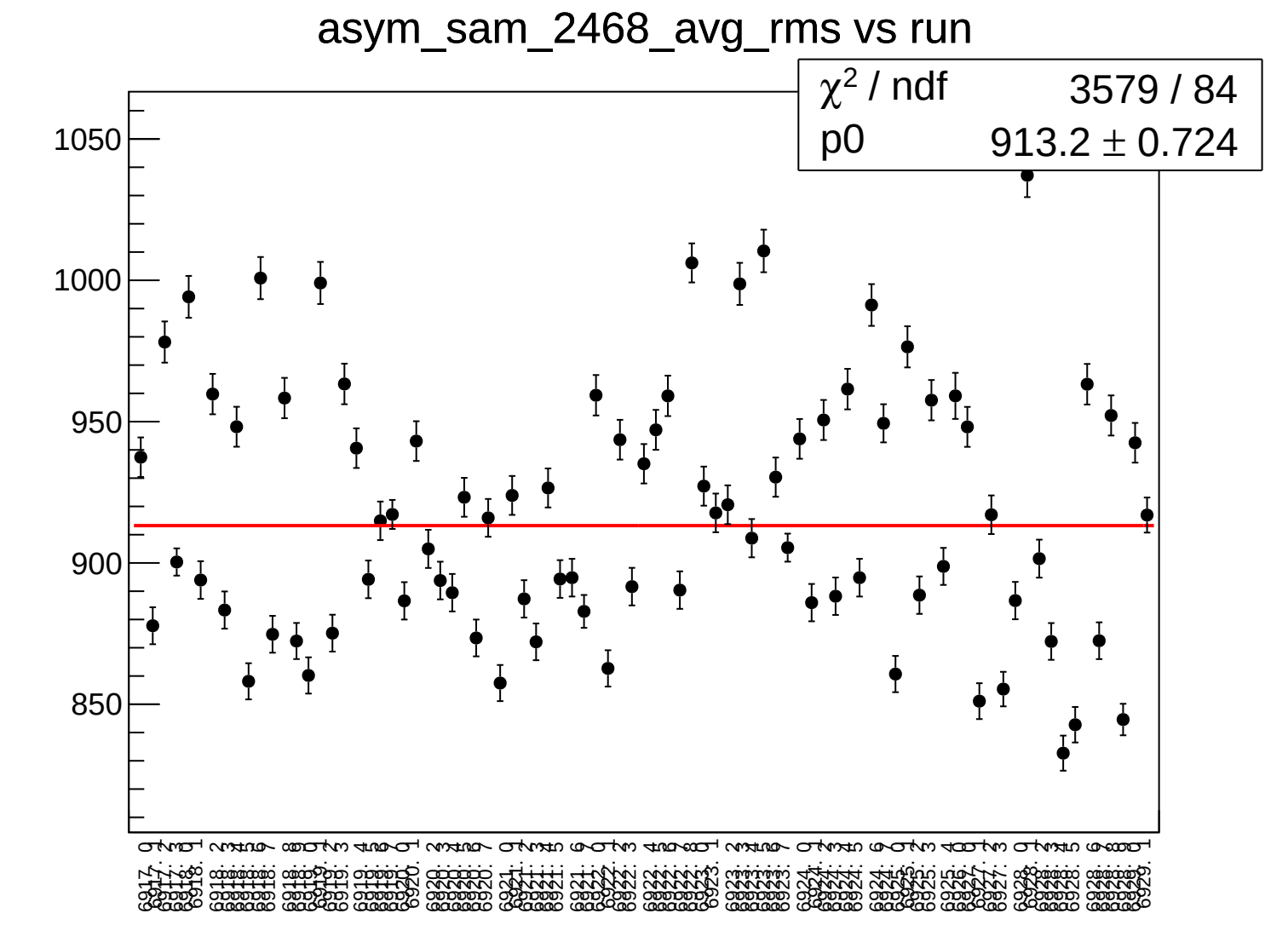

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 98.17 / 84
p0 −2799 ± 1020
pull
Entries 85
Mean 512
Std Dev 477.3

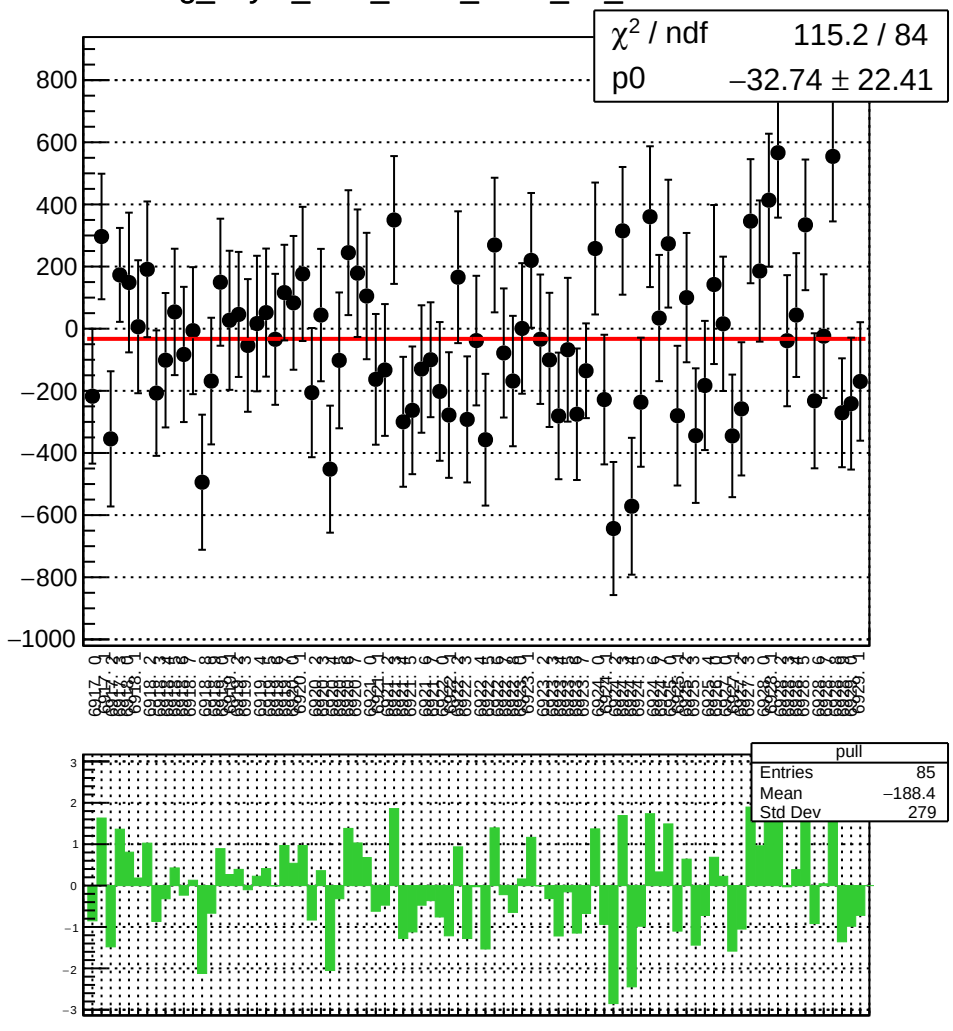

pull1D
Entries 85
Mean 0.006384
Std Dev 1.075

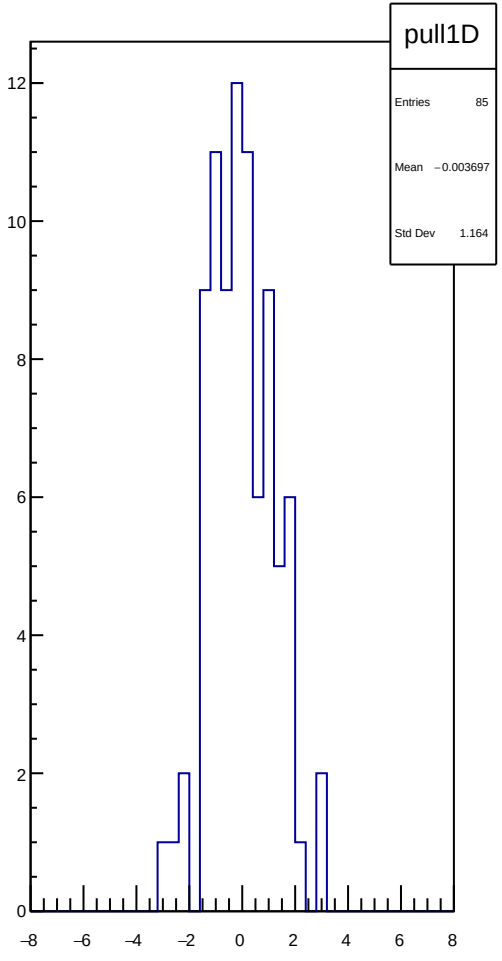

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 3593 / 84
p0 910.2 ± 0.7216
1050
1000
950
900
850

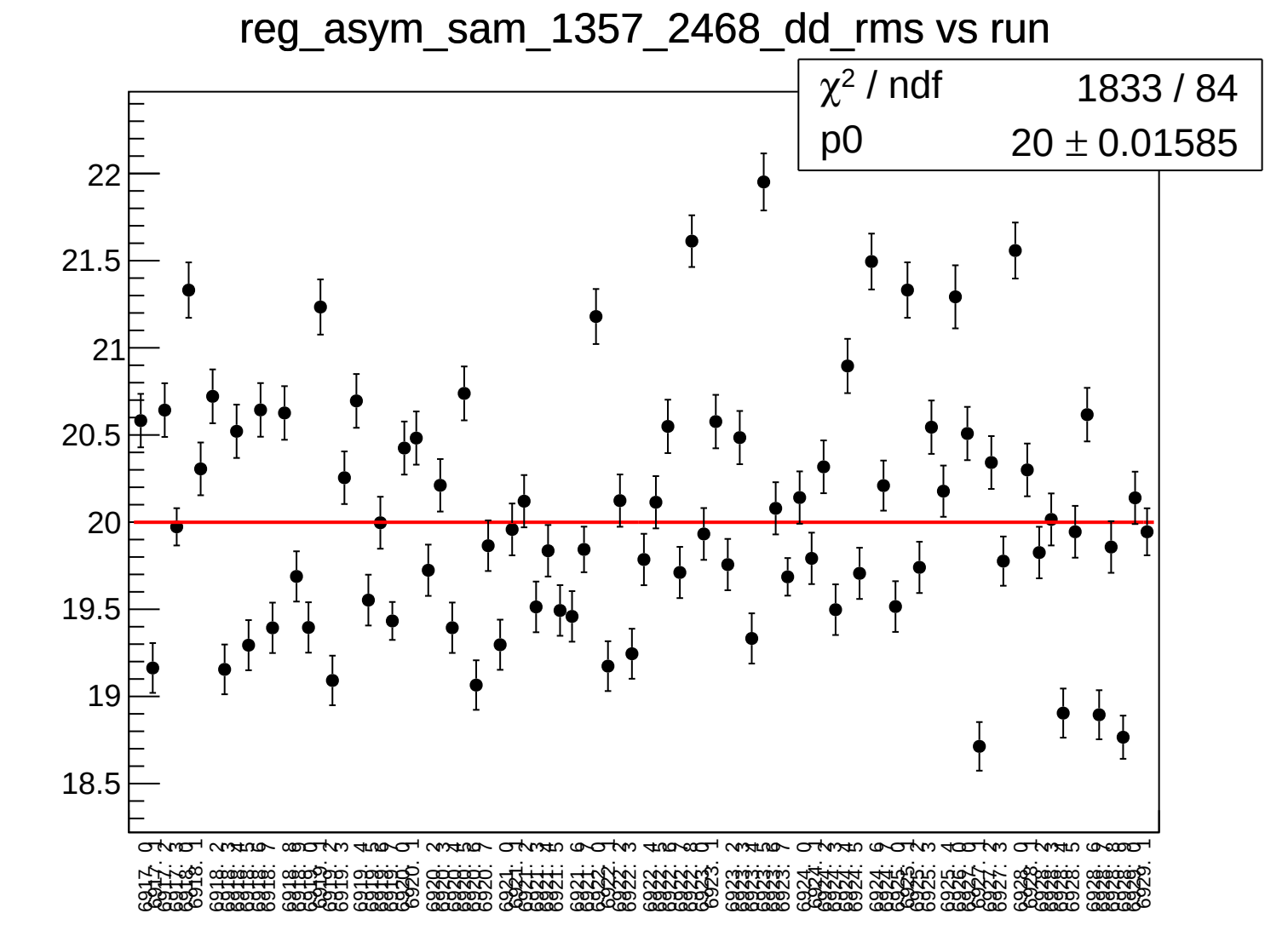

asym_sam_2468_avg_mean vs run
χ² / ndf 97.17 / 84
p0 2865 ± 1024
pull
Entries 85
Mean 596.9
Std Dev 561.5

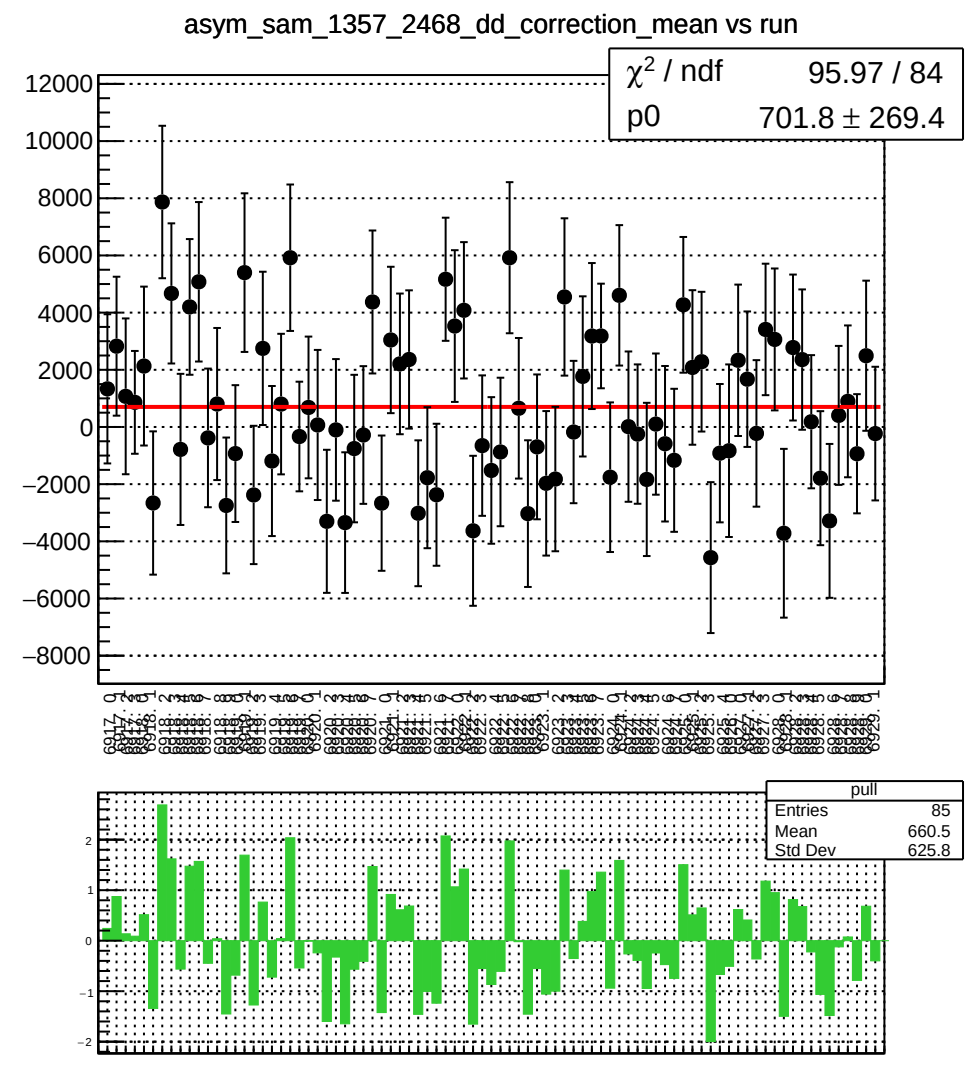

pull1D
Entries 85
Mean −0.005409
Std Dev 1.069

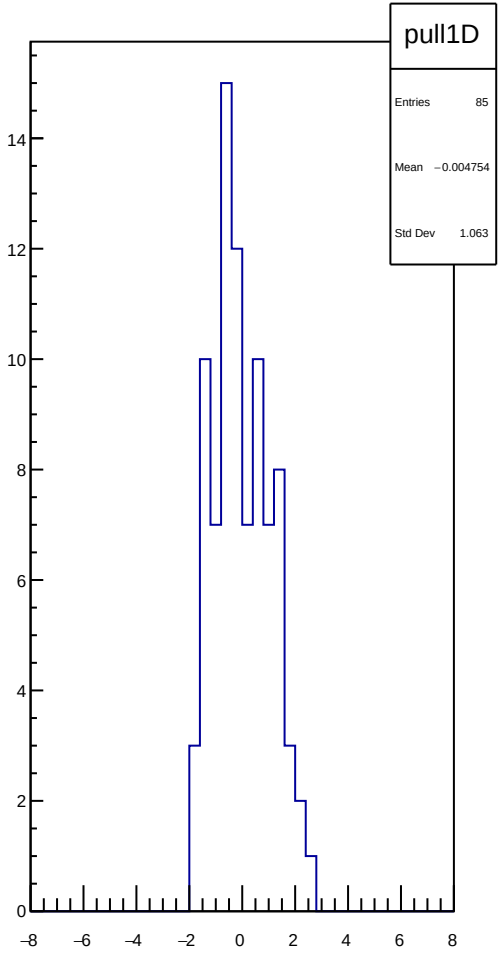

asym_sam_2468_avg_rms vs run
χ² / ndf 3579 / 84
p0 913.2 ± 0.724
1050
1000
950
900
850

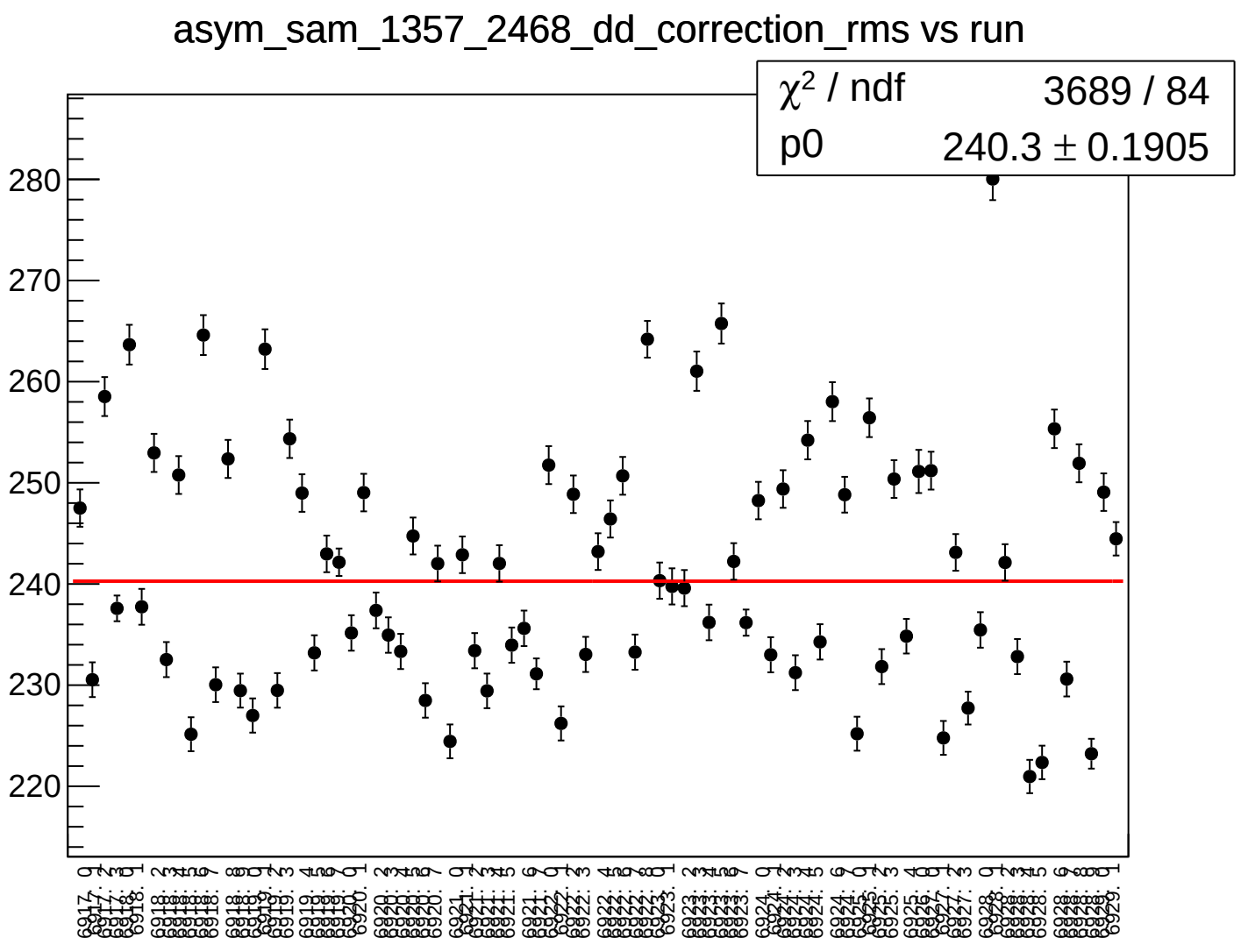

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 115.2 / 84
p0 −32.74 ± 22.41
pull
Entries 85
Mean −188.4
Std Dev 279

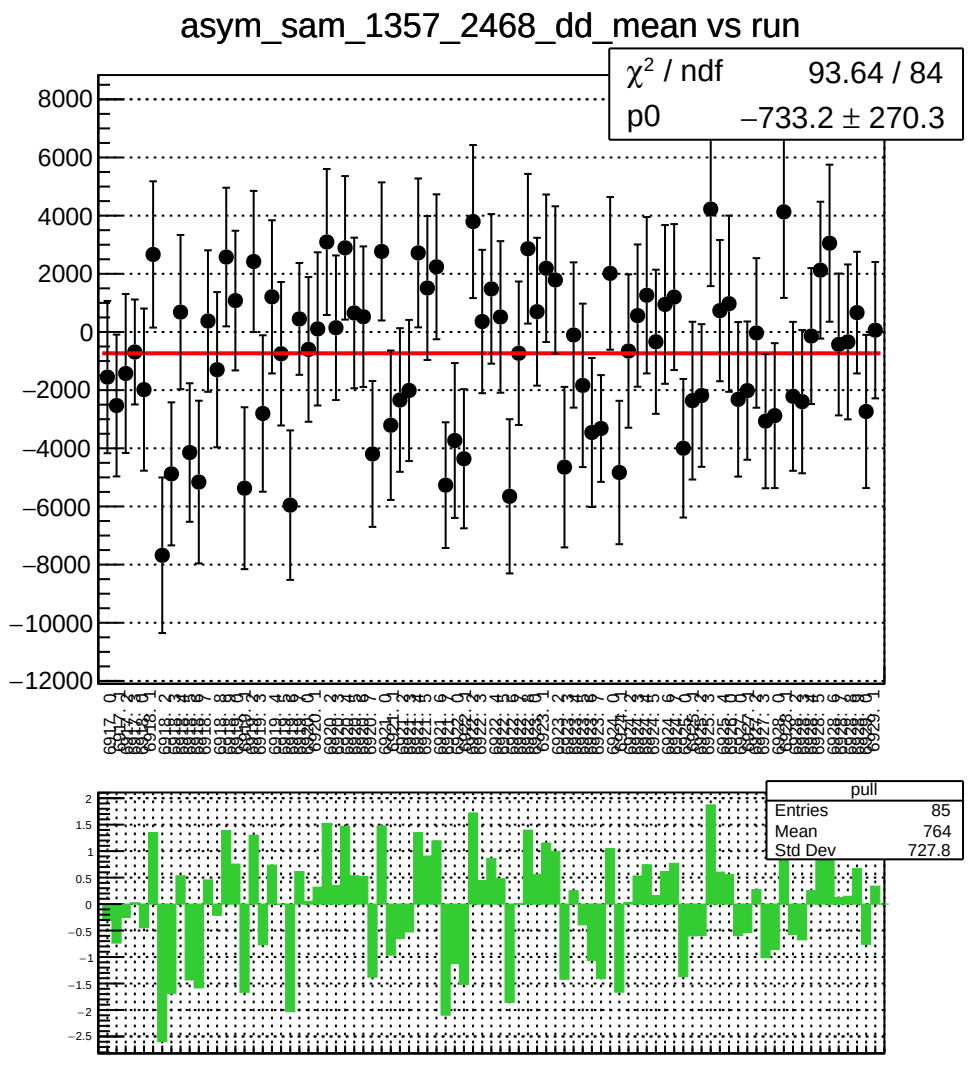

pull1D
Entries 85
Mean −0.003697
Std Dev 1.164

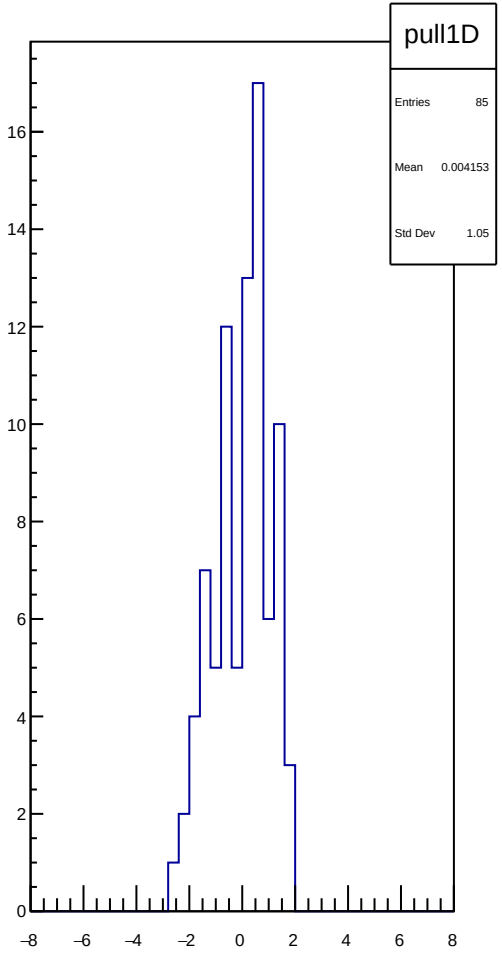

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1833 / 84
p0 20 ± 0.01585
22
21.5
21
20.5
20
19.5
19
18.5

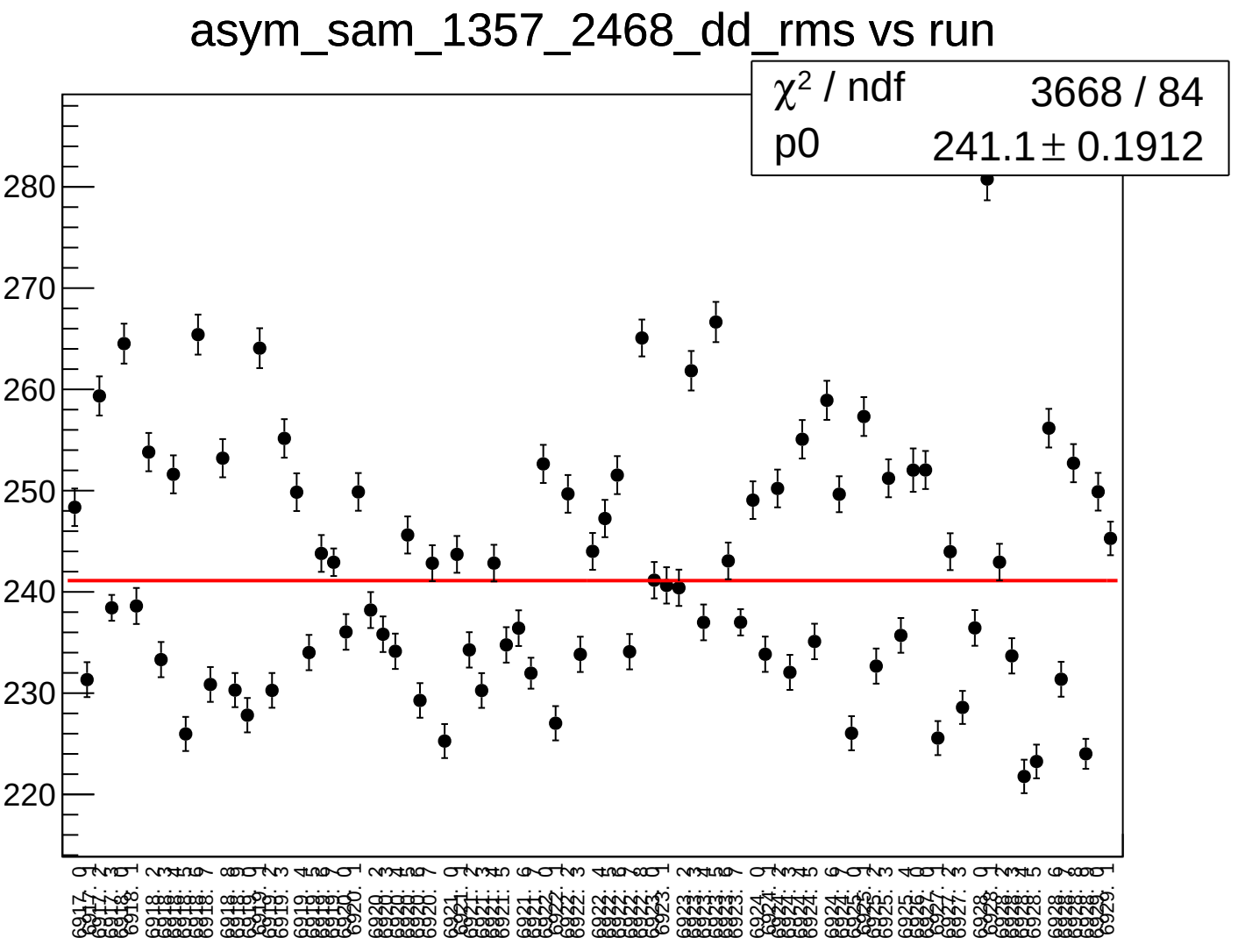

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 95.97 / 84
p0 701.8 ± 269.4
pull
Entries 85
Mean 660.5
Std Dev 625.8

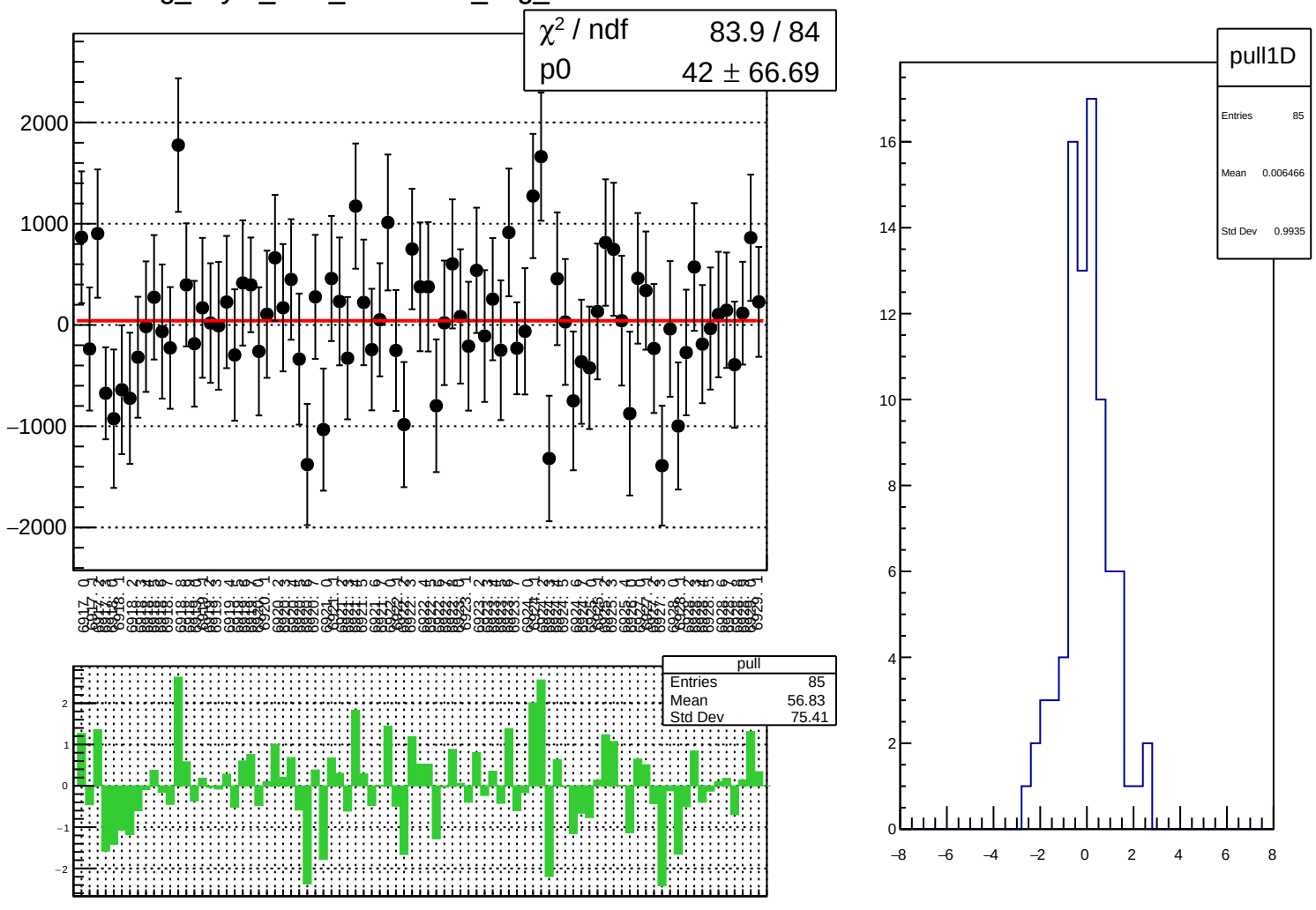

pull1D
Entries 85
Mean −0.004754
Std Dev 1.063

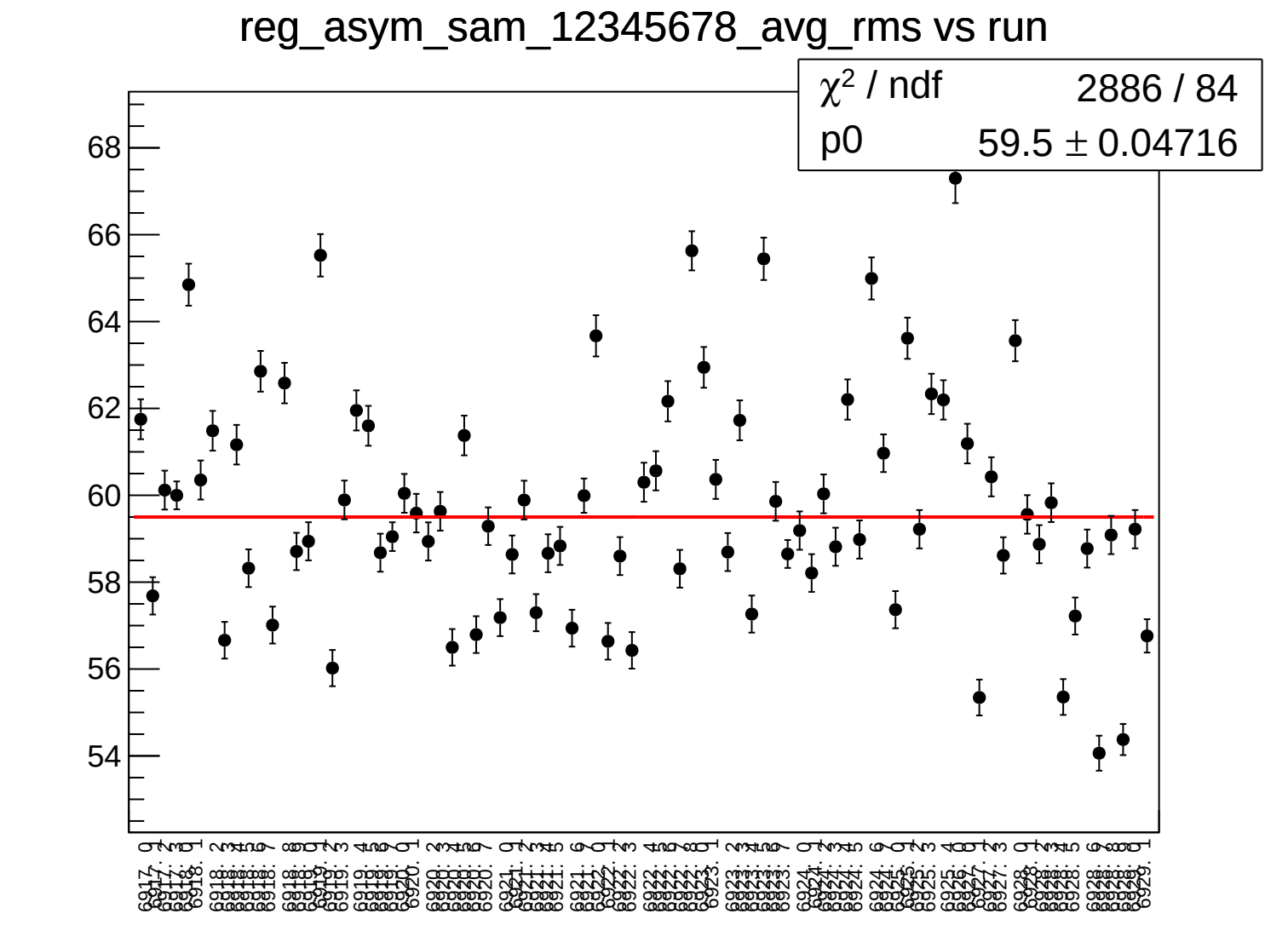

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 3689 / 84
p0 240.3 ± 0.1905
280
270
260
250
240
230
220

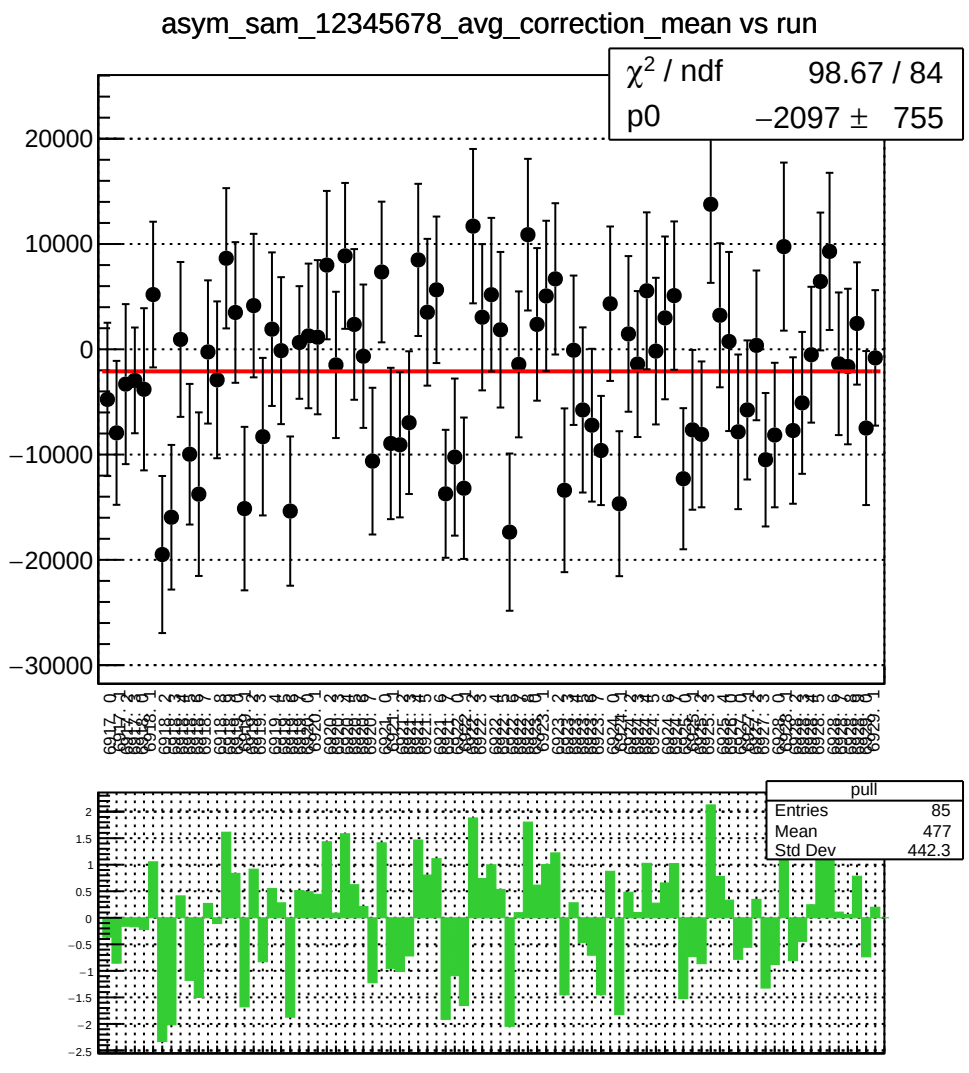

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 93.64 / 84
p0 −733.2 ± 270.3
pull
Entries 85
Mean 764
Std Dev 727.8

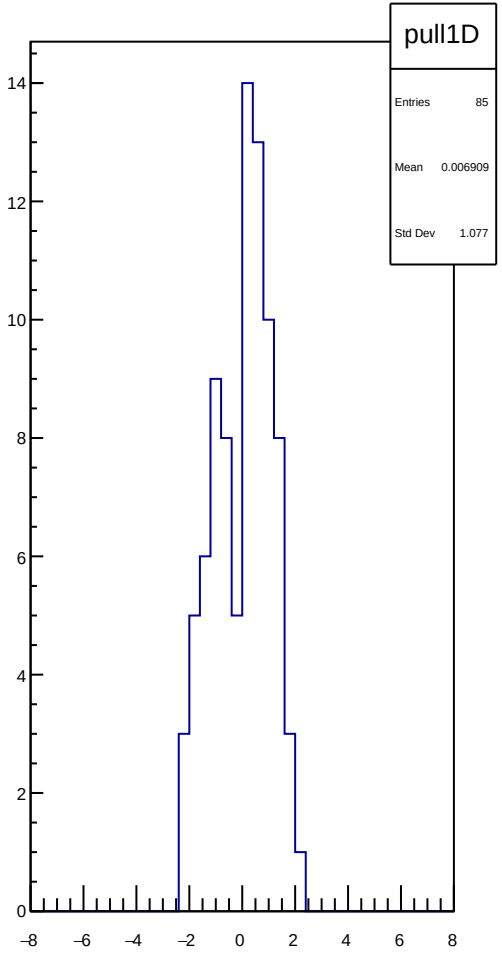

pull1D
Entries 85
Mean 0.004153
Std Dev 1.05

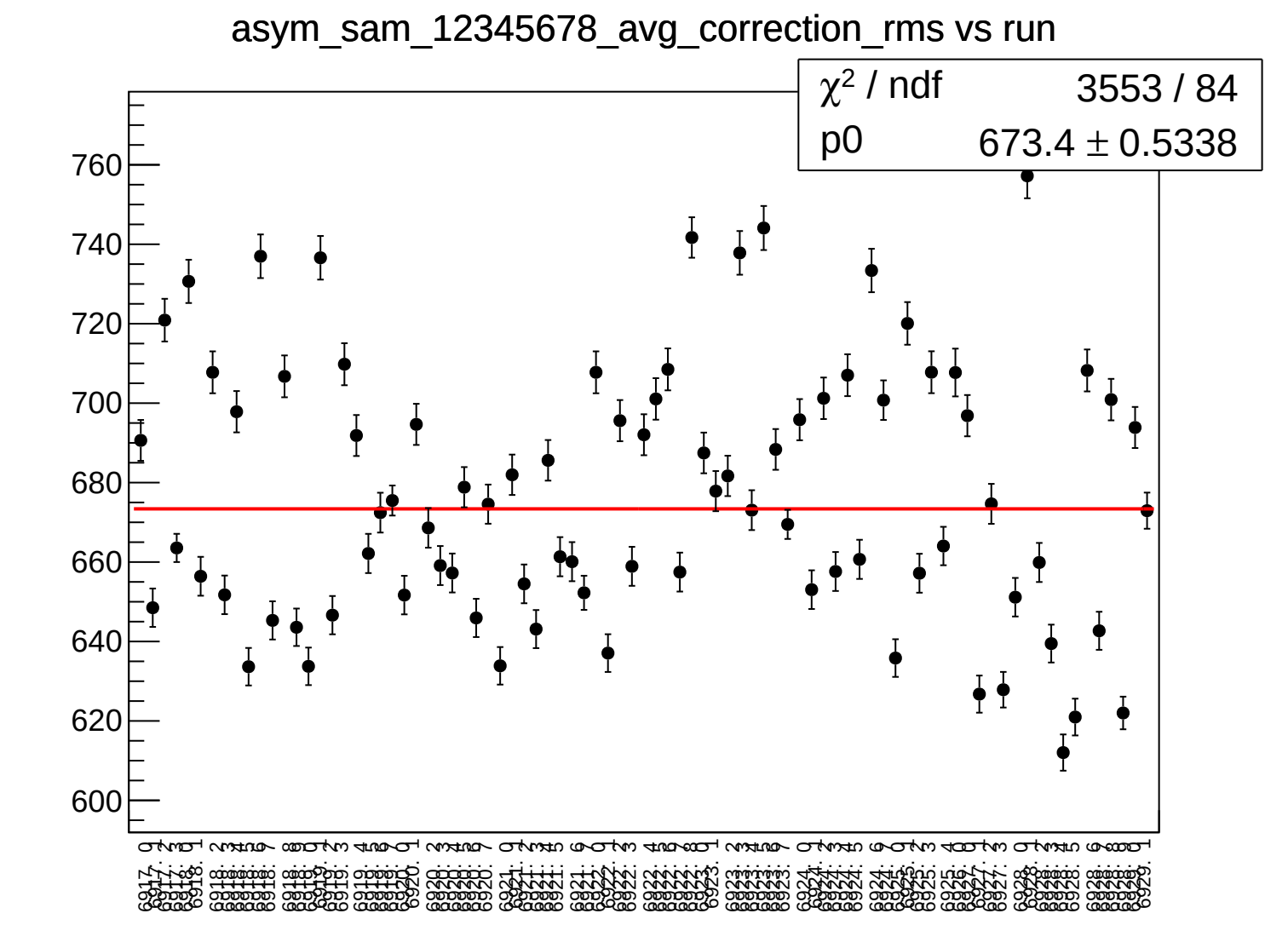

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3668 / 84
p0 241.1 ± 0.1912
280
270
260
250
240
230
220

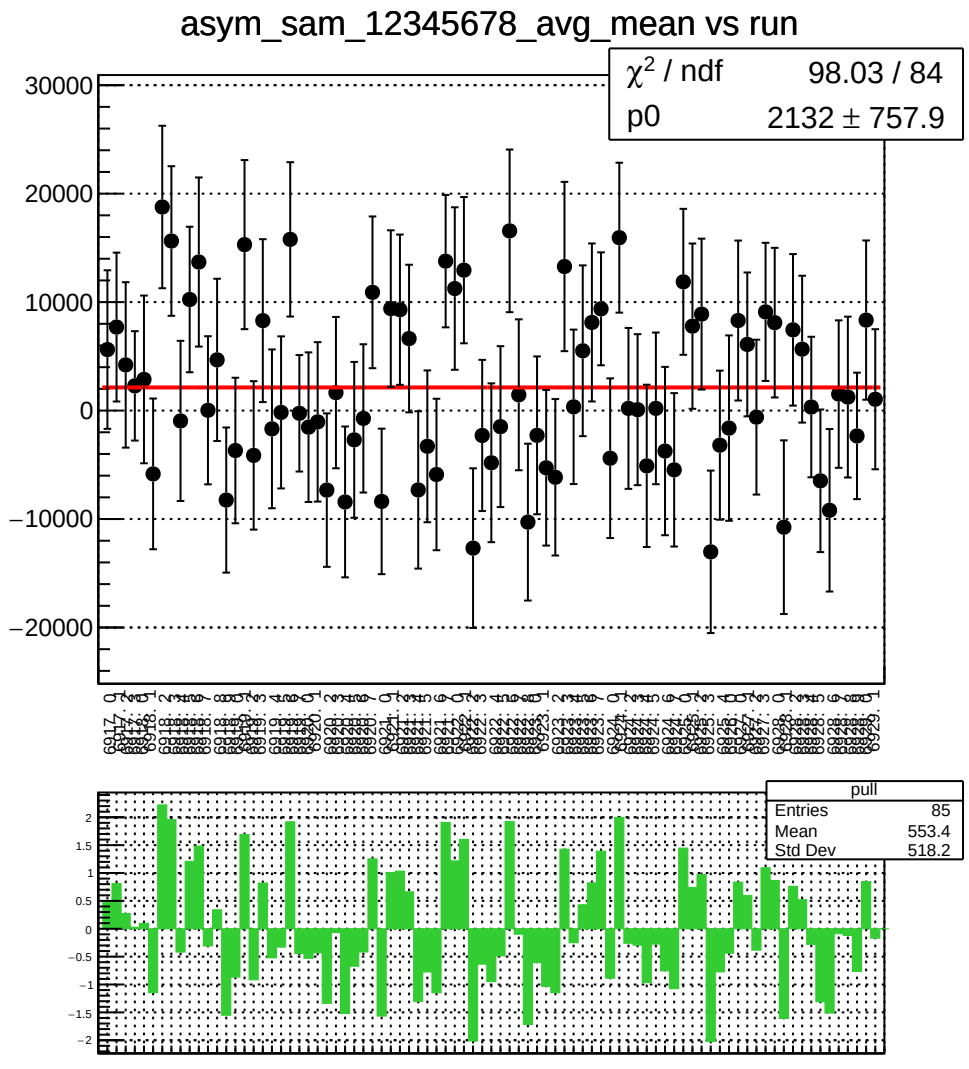

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 83.9 / 84
p0 42 ± 66.69
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 56.83
Std Dev 75.41
pull1D
Entries 85
Mean 0.006466
Std Dev 0.9935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

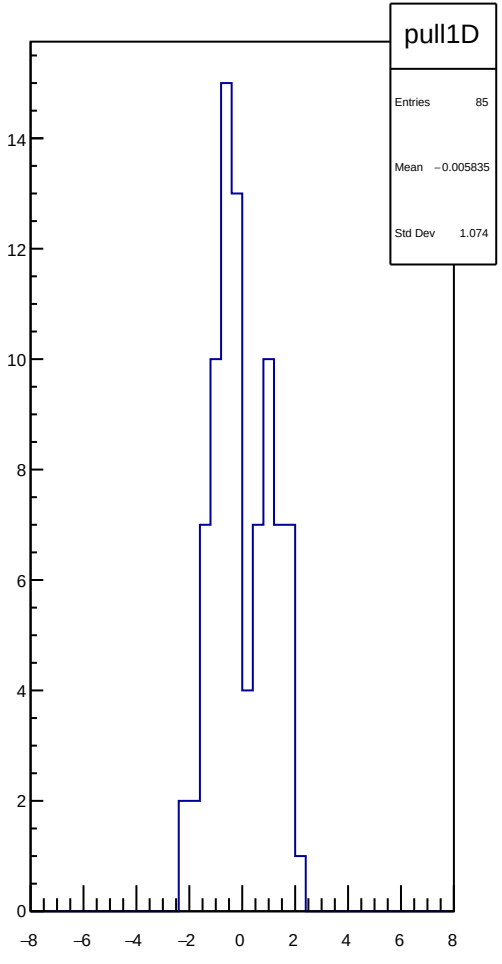

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2886 / 84
p0 59.5 ± 0.04716
68
66
64
62
60
58
56
54

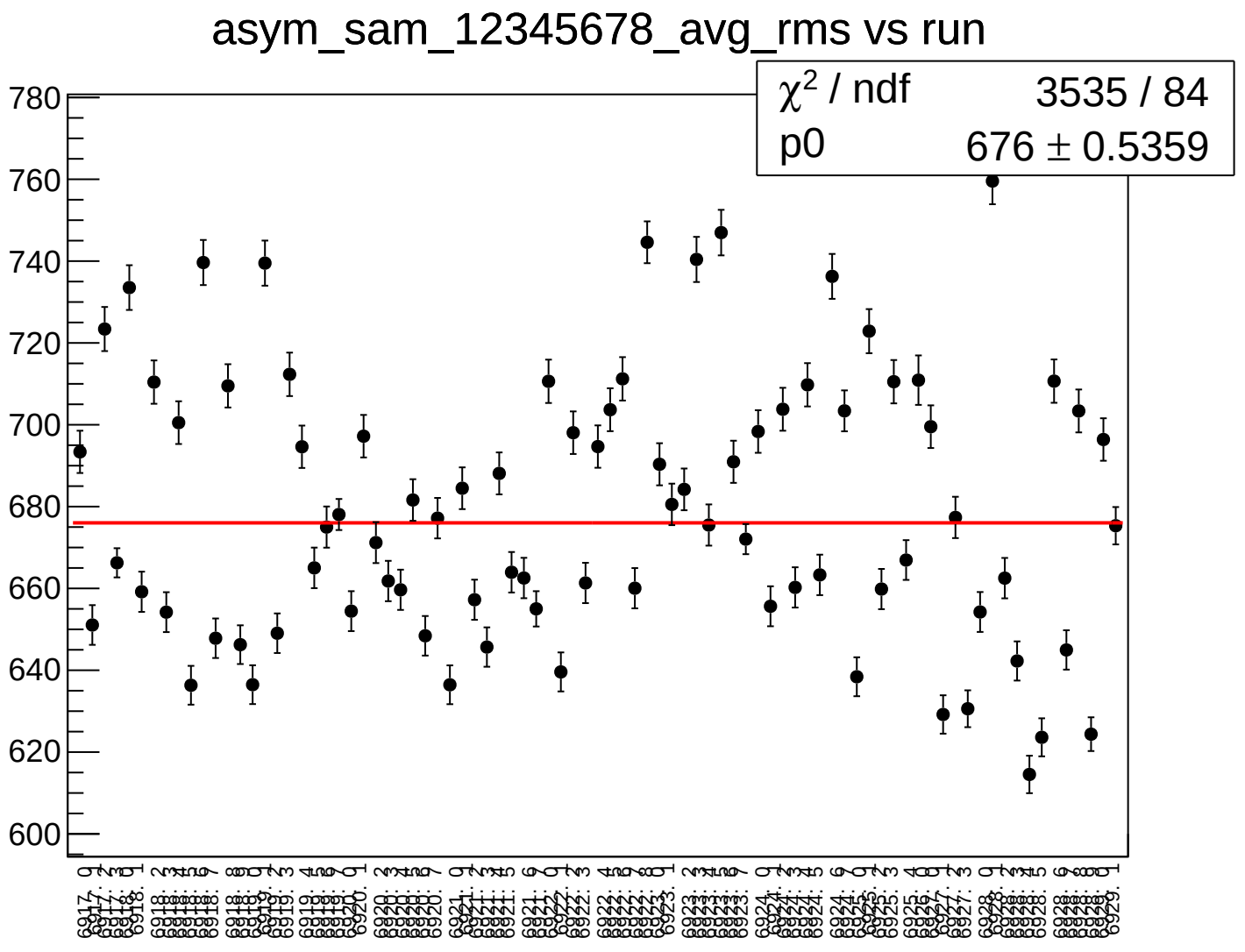

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 98.67 / 84
p0 −2097 ± 755
pull
Entries 85
Mean 477
Std Dev 442.3

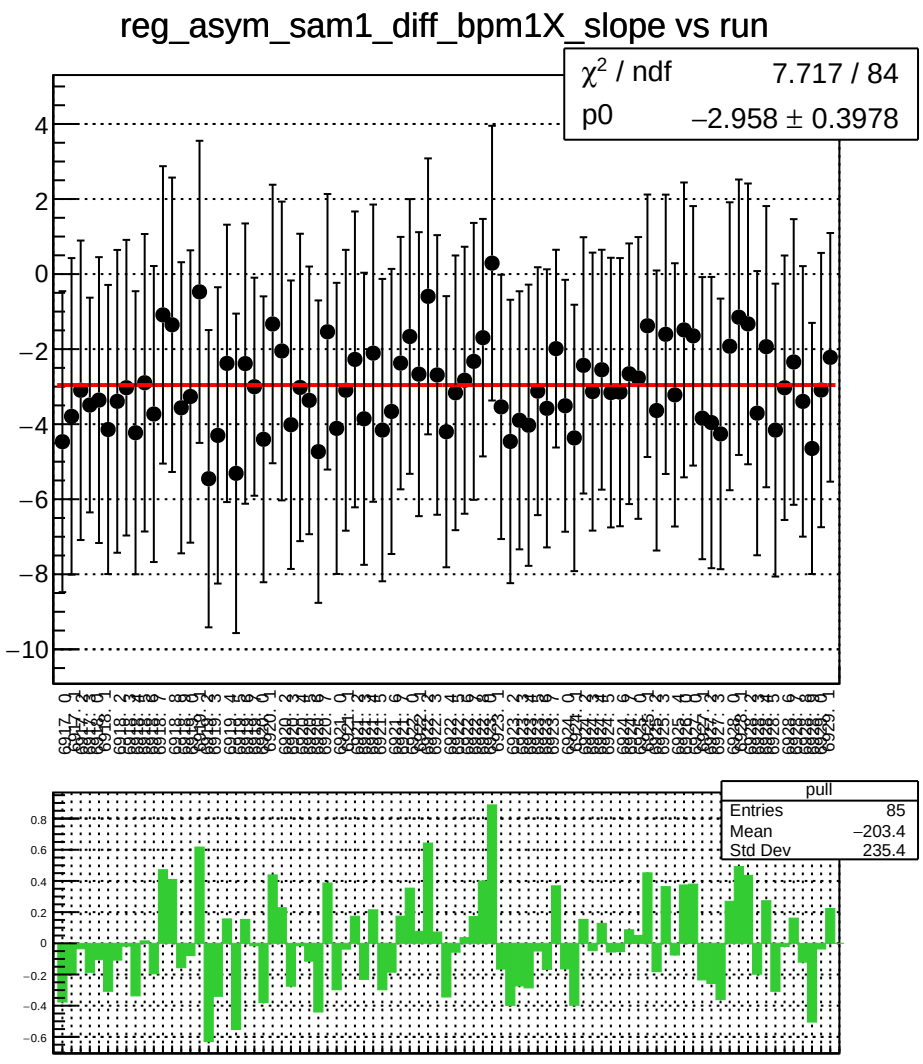

pull1D
Entries 85
Mean 0.006909
Std Dev 1.077

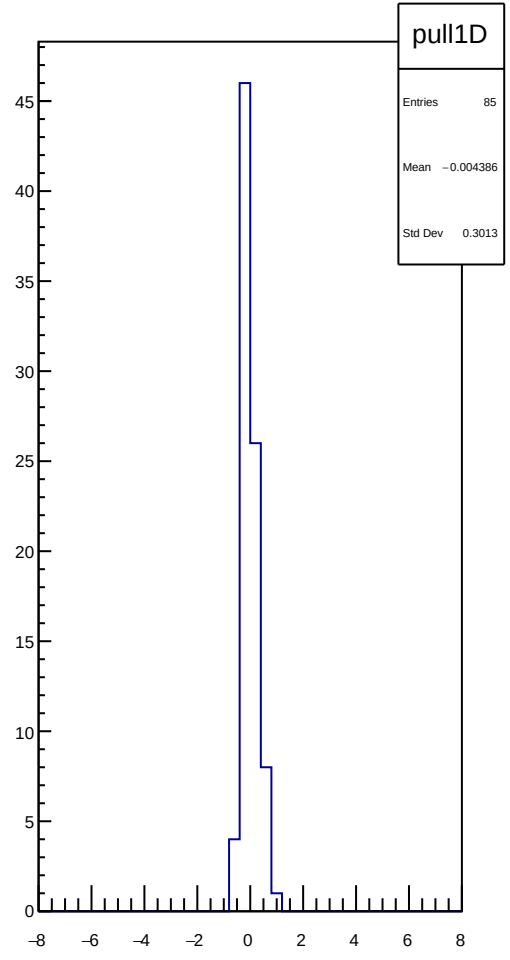

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 3553 / 84
p0 673.4 ± 0.5338
760
740
720
700
680
660
640
620
600

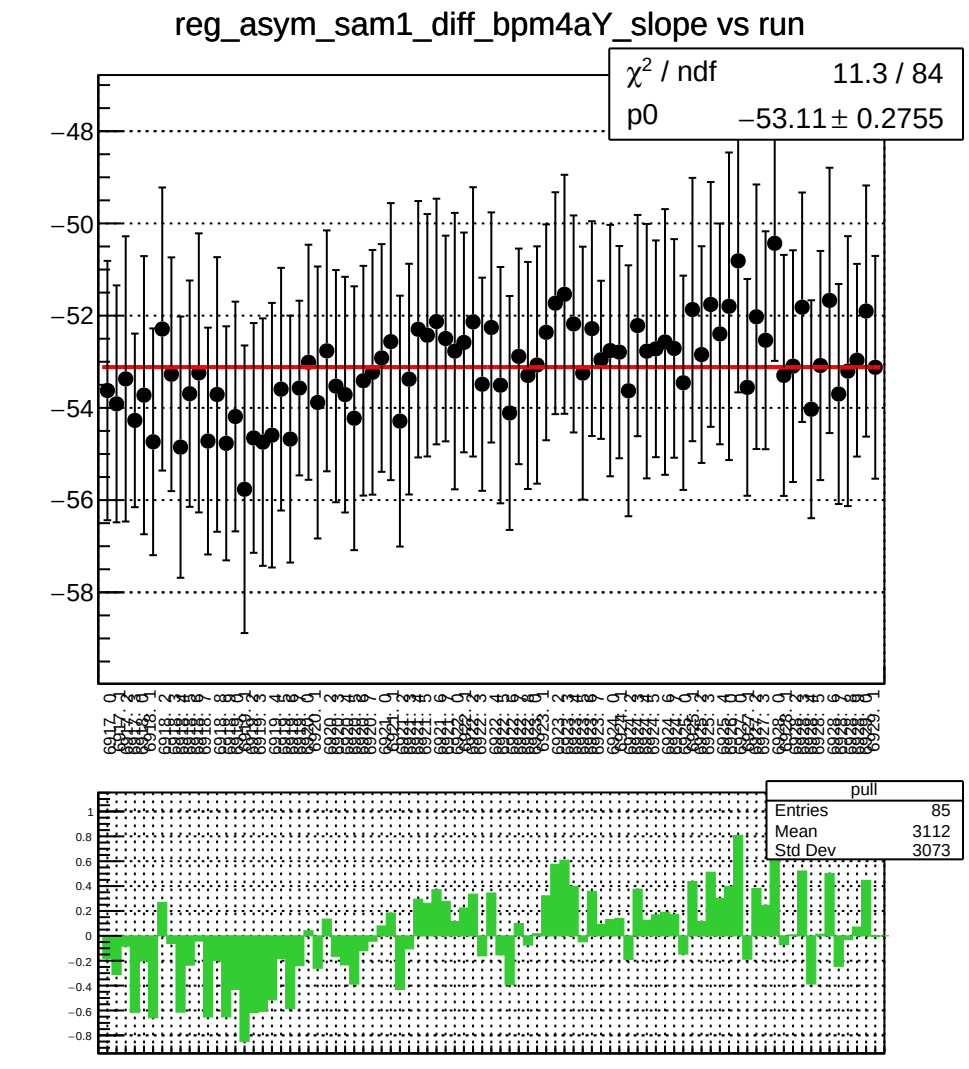

asym_sam_12345678_avg_mean vs run
χ² / ndf 98.03 / 84
p0 2132 ± 757.9
pull
Entries 85
Mean 553.4
Std Dev 518.2

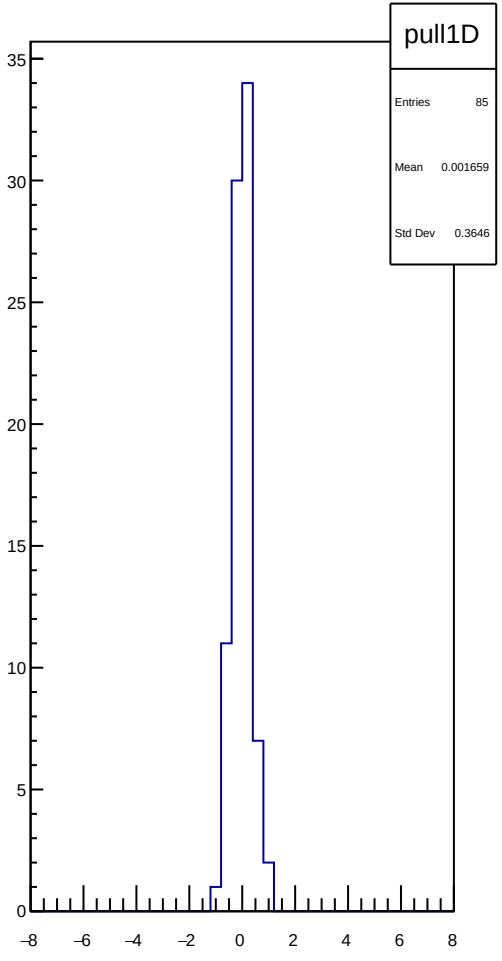

pull1D
Entries 85
Mean −0.005835
Std Dev 1.074

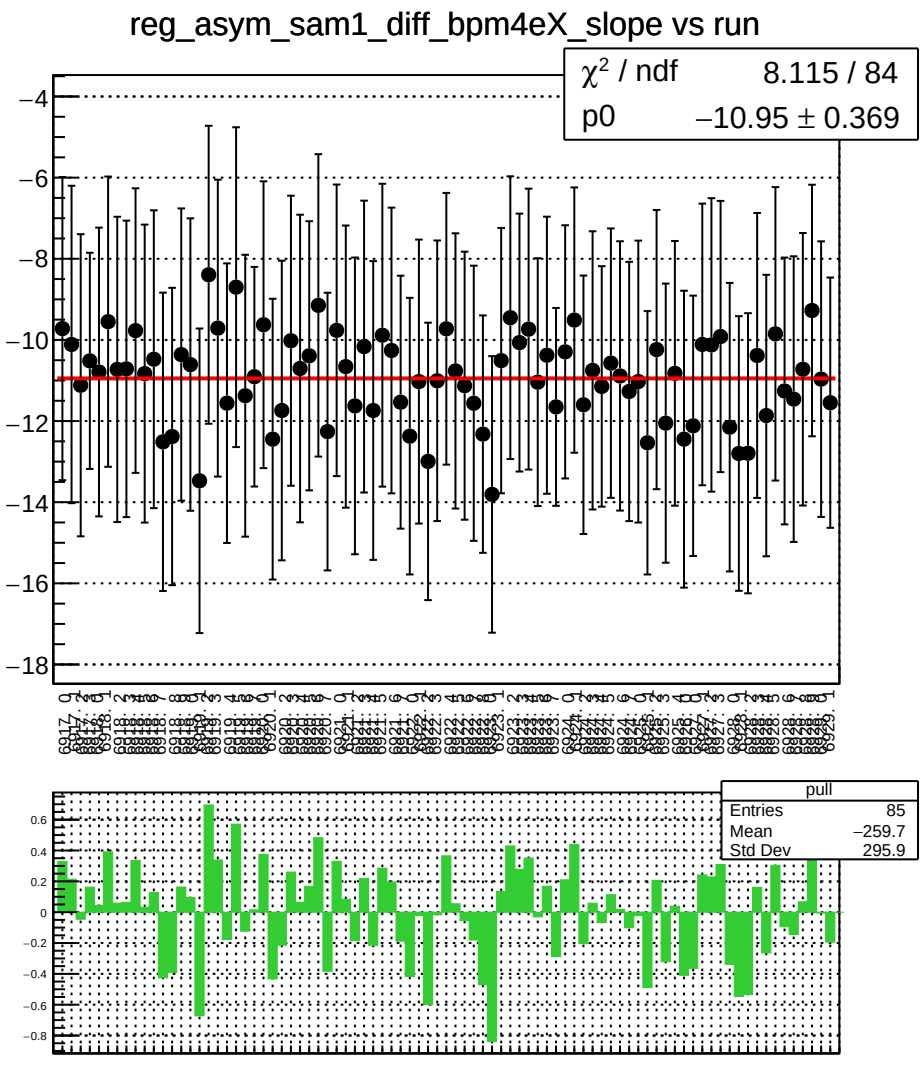

asym_sam_12345678_avg_rms vs run
χ² / ndf 3535 / 84
p0 676 ± 0.5359
780
760
740
720
700
680
660
640
620
600

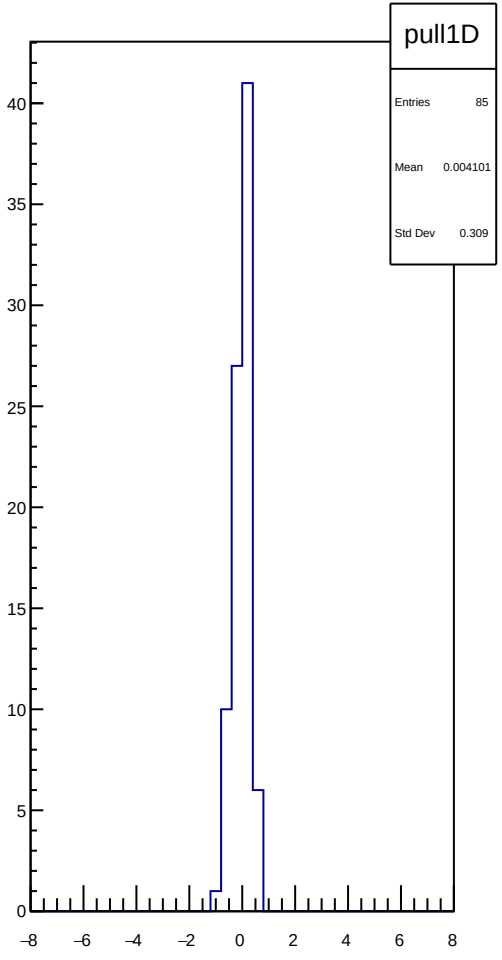

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 7.717 / 84
p0 −2.958 ± 0.3978
pull
Entries 85
Mean −203.4
Std Dev 235.4

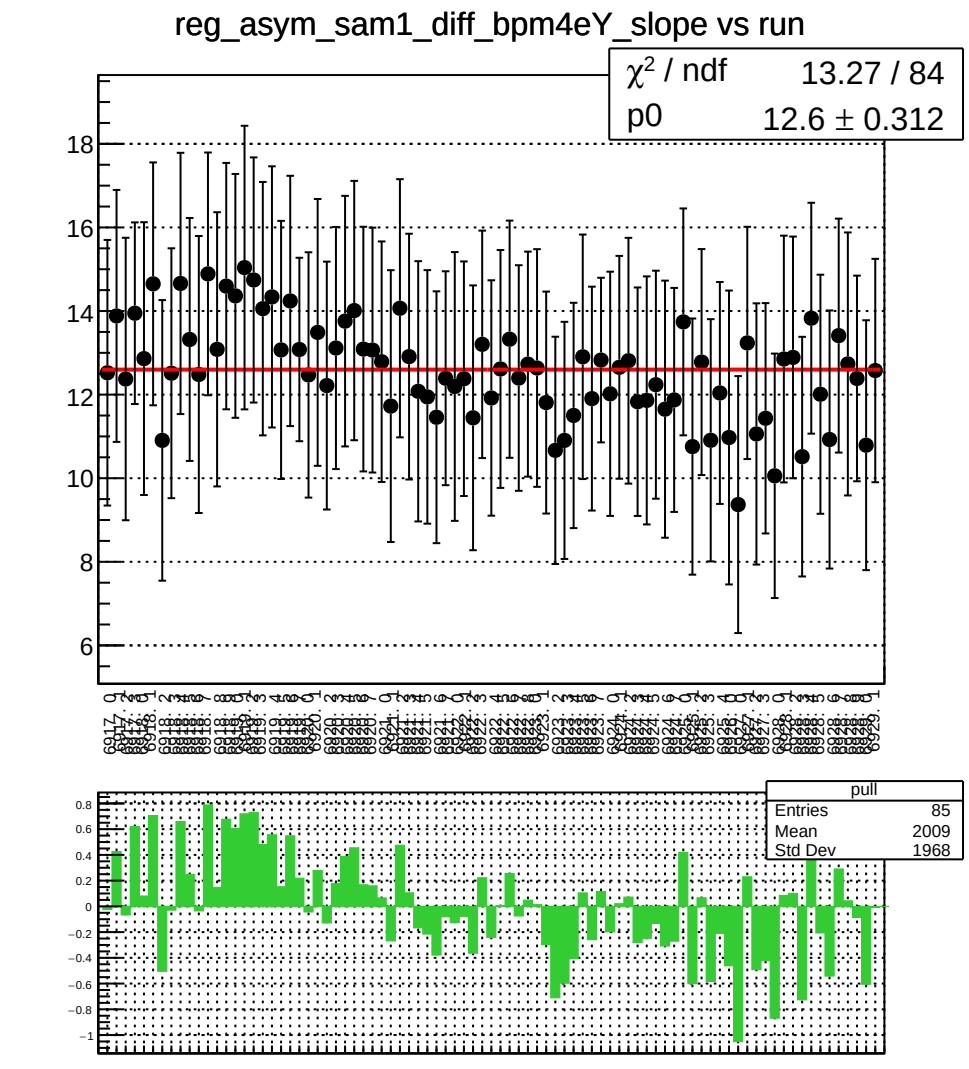

pull1D
Entries 85
Mean −0.004386
Std Dev 0.3013

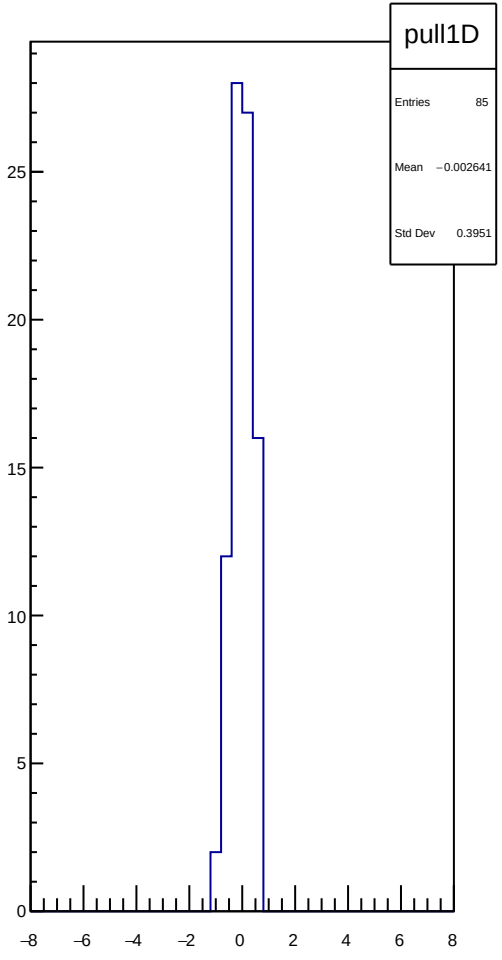

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 11.3 / 84
p0 −53.11 ± 0.2755
pull
Entries 85
Mean 3112
Std Dev 3073

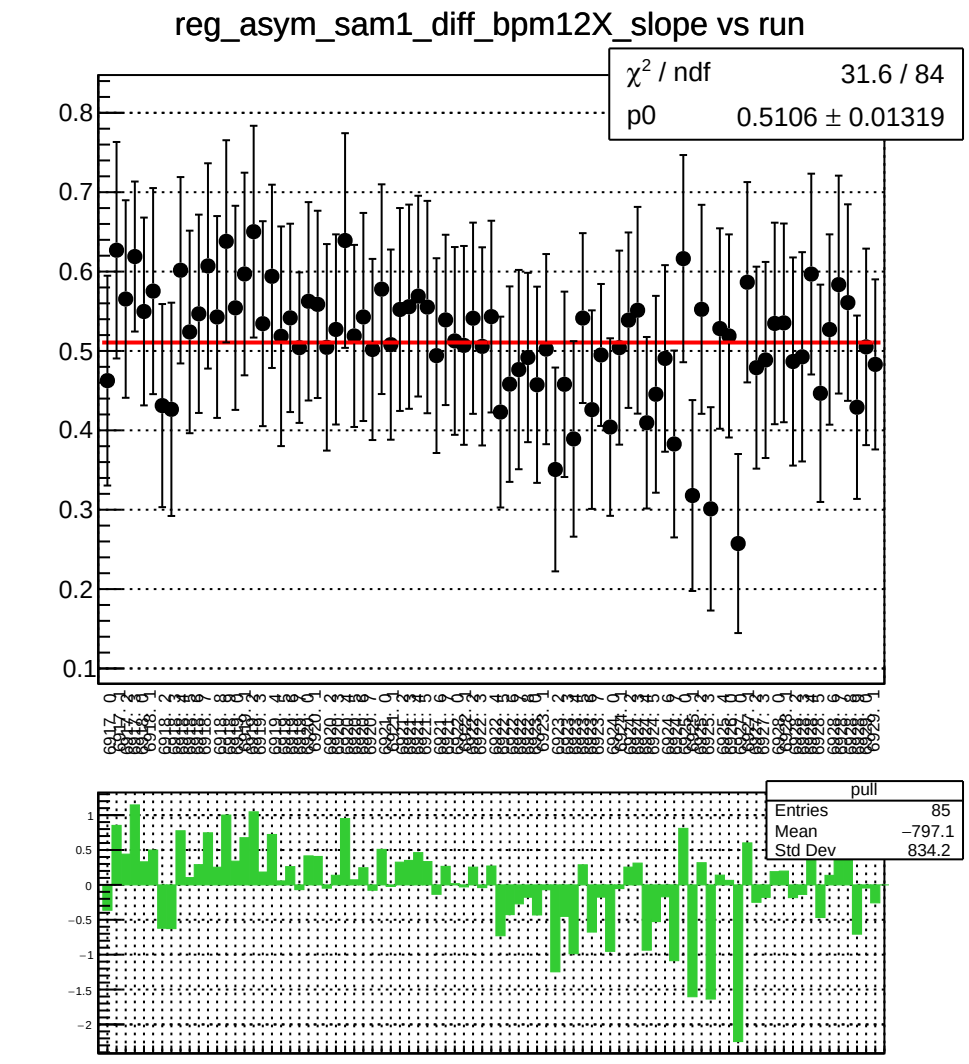

pull1D
Entries 85
Mean 0.001659
Std Dev 0.3646

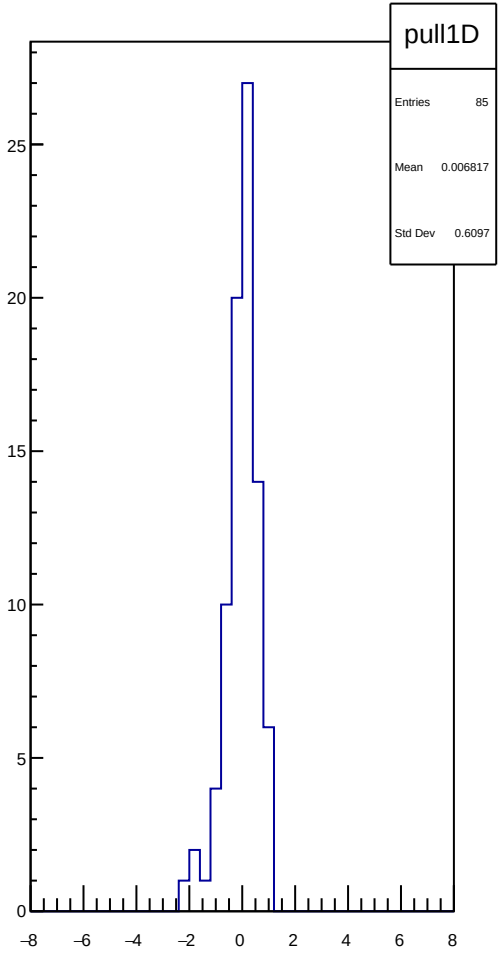

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 8.115 / 84
p0 −10.95 ± 0.369
pull
Entries 85
Mean −259.7
Std Dev 295.9

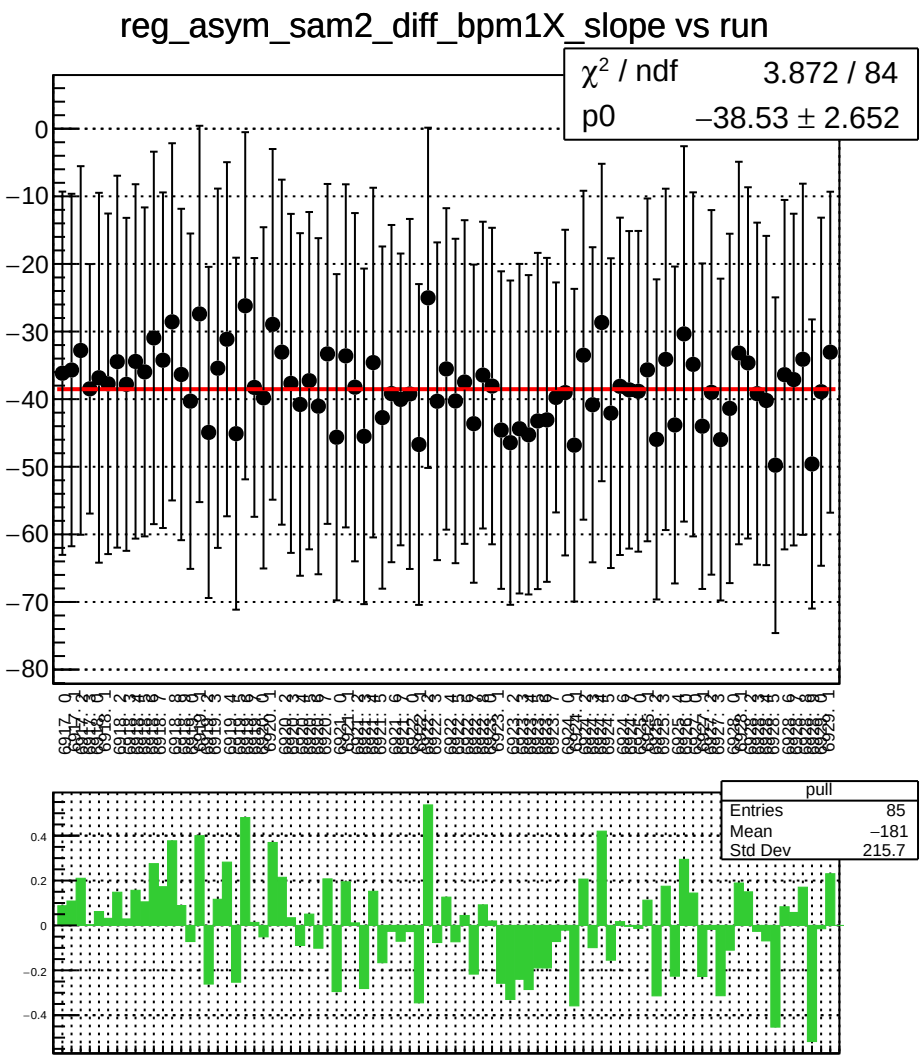

pull1D
Entries 85
Mean 0.004101
Std Dev 0.309

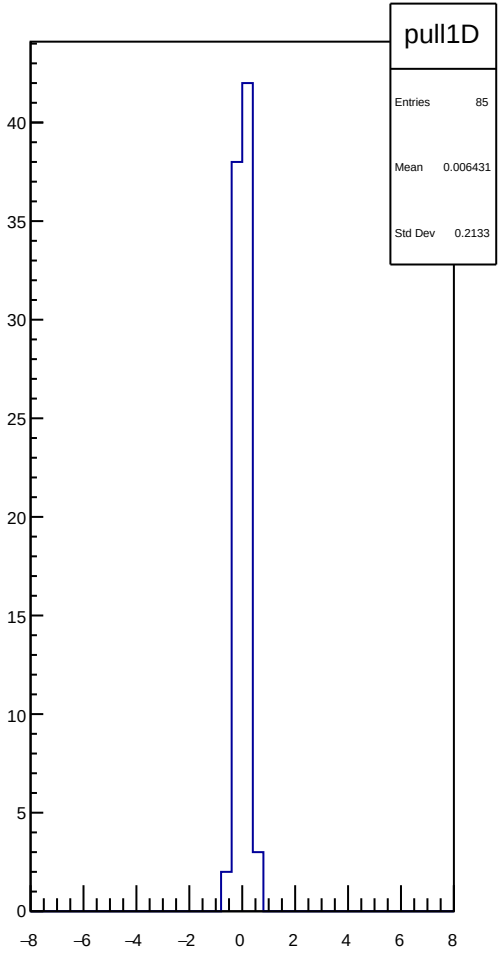

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 13.27 / 84
p0 12.6 ± 0.312
pull
Entries 85
Mean 2009
Std Dev 1968

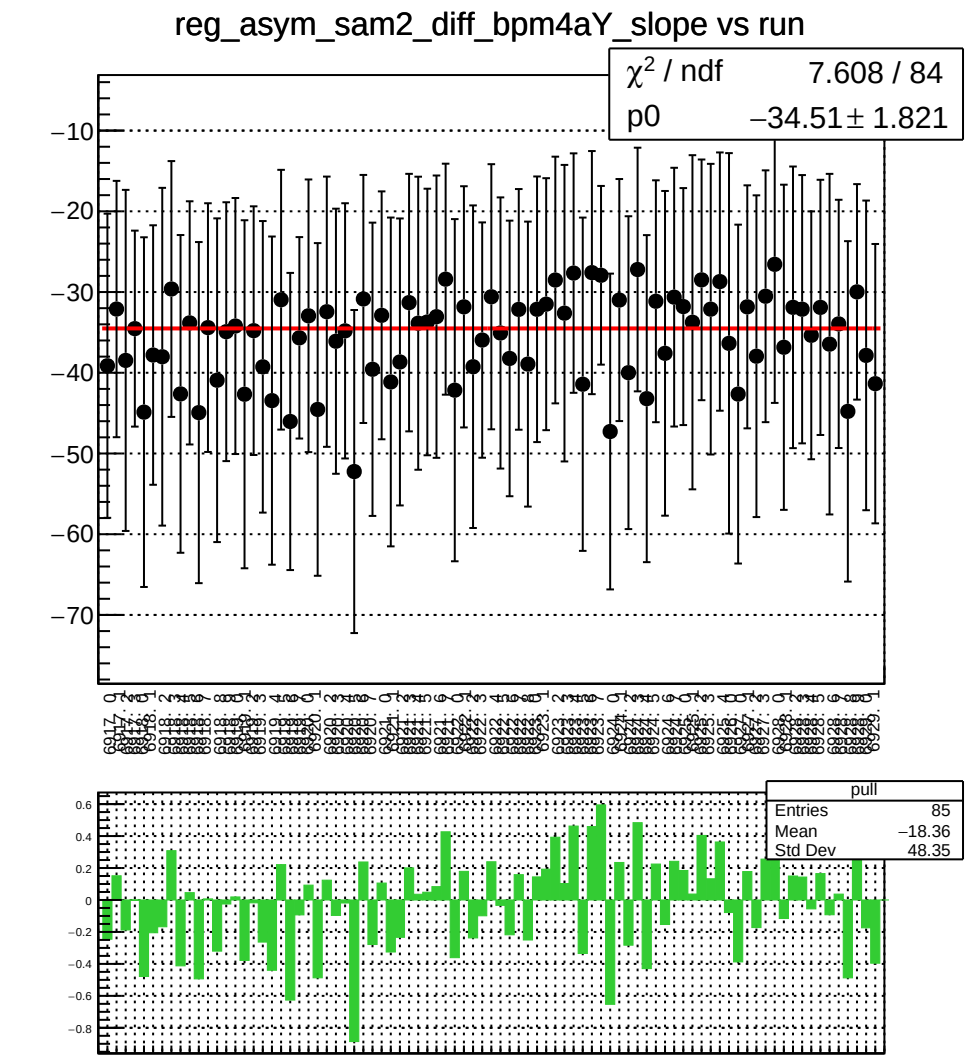

pull1D
Entries 85
Mean −0.002641
Std Dev 0.3951

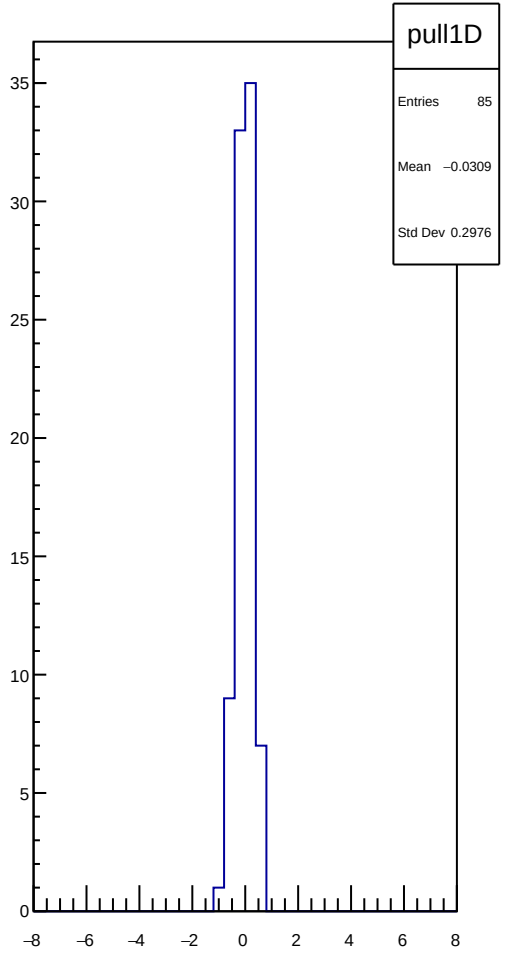

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 31.6 / 84
p0 0.5106 ± 0.01319
pull
Entries 85
Mean −797.1
Std Dev 834.2

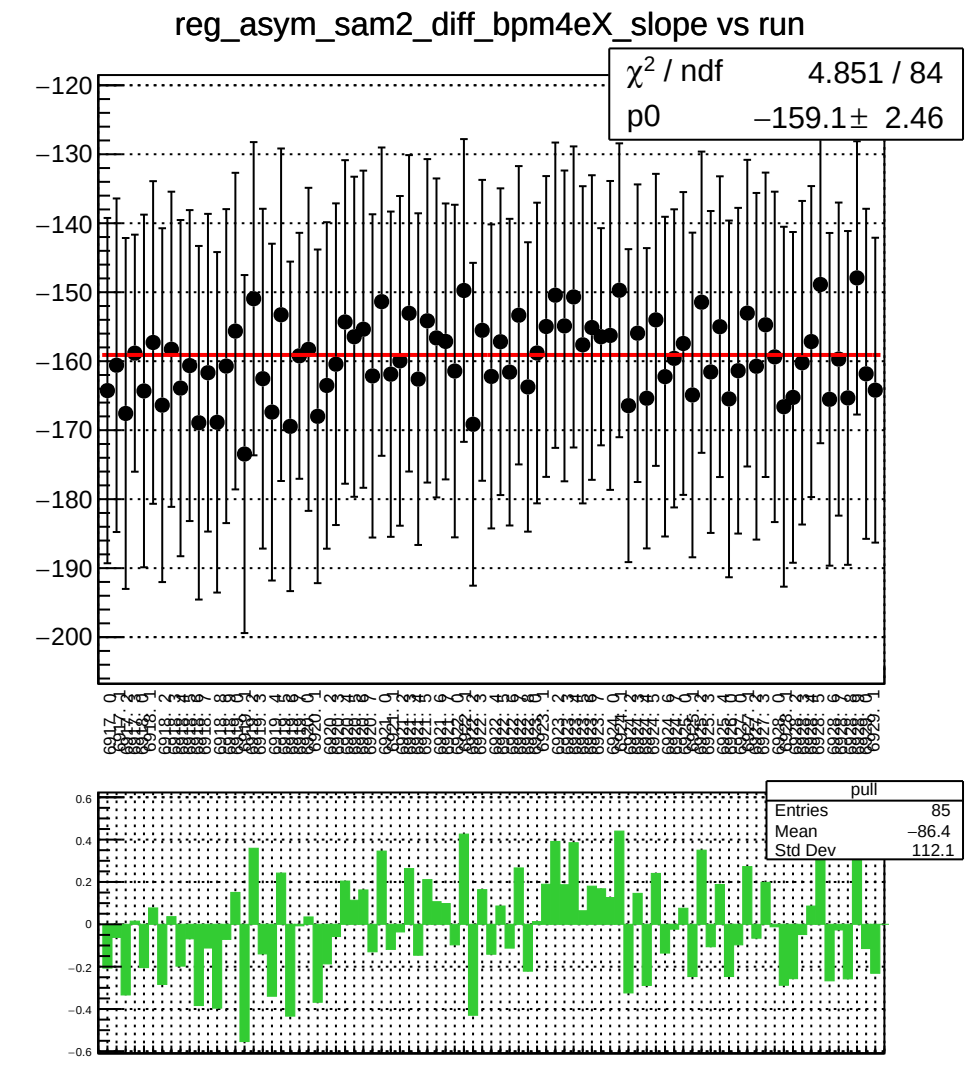

pull1D
Entries 85
Mean 0.006817
Std Dev 0.6097

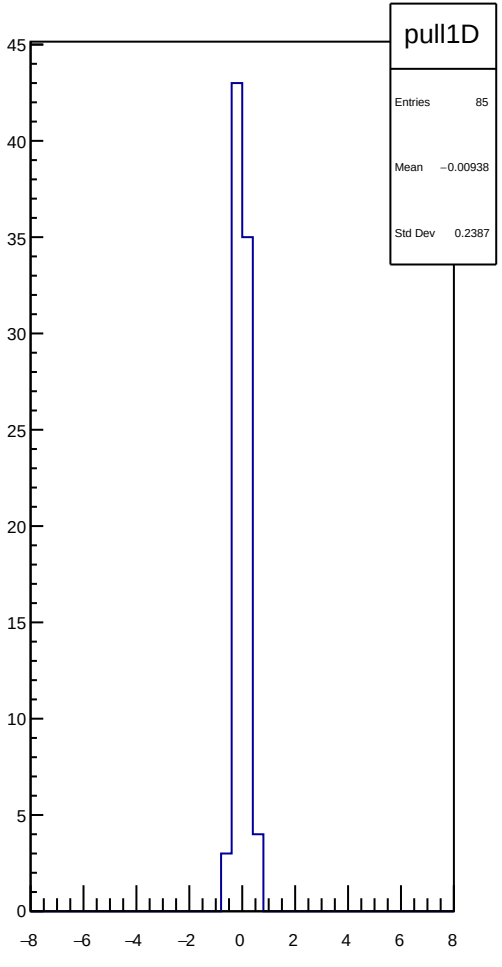

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 3.872 / 84
p0 −38.53 ± 2.652
pull
Entries 85
Mean −181
Std Dev 215.7

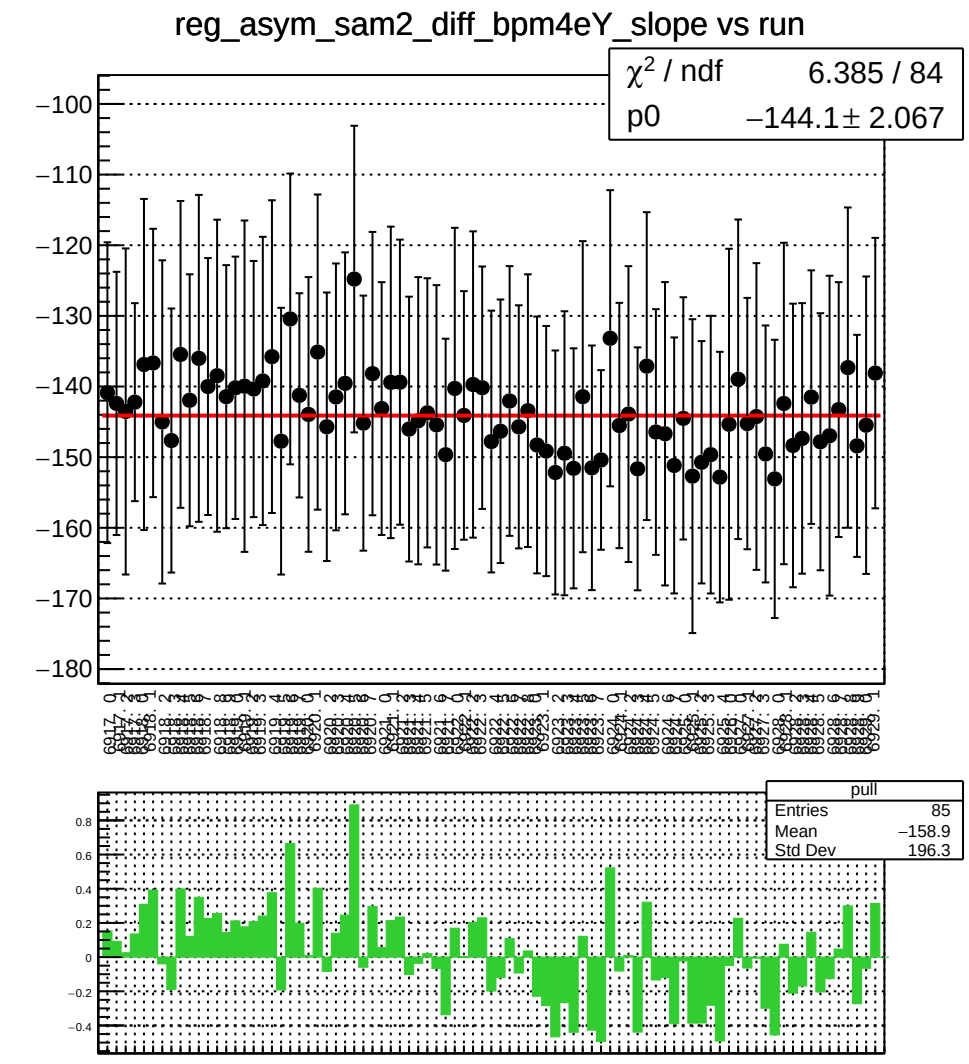

pull1D
Entries 85
Mean 0.006431
Std Dev 0.2133

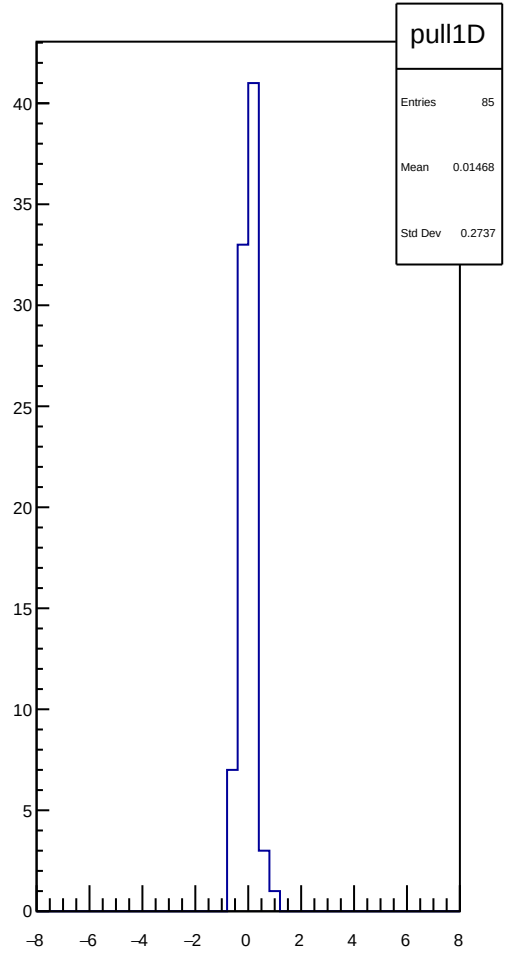

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 7.608 / 84
p0 −34.51 ± 1.821
pull
Entries 85
Mean −18.36
Std Dev 48.35

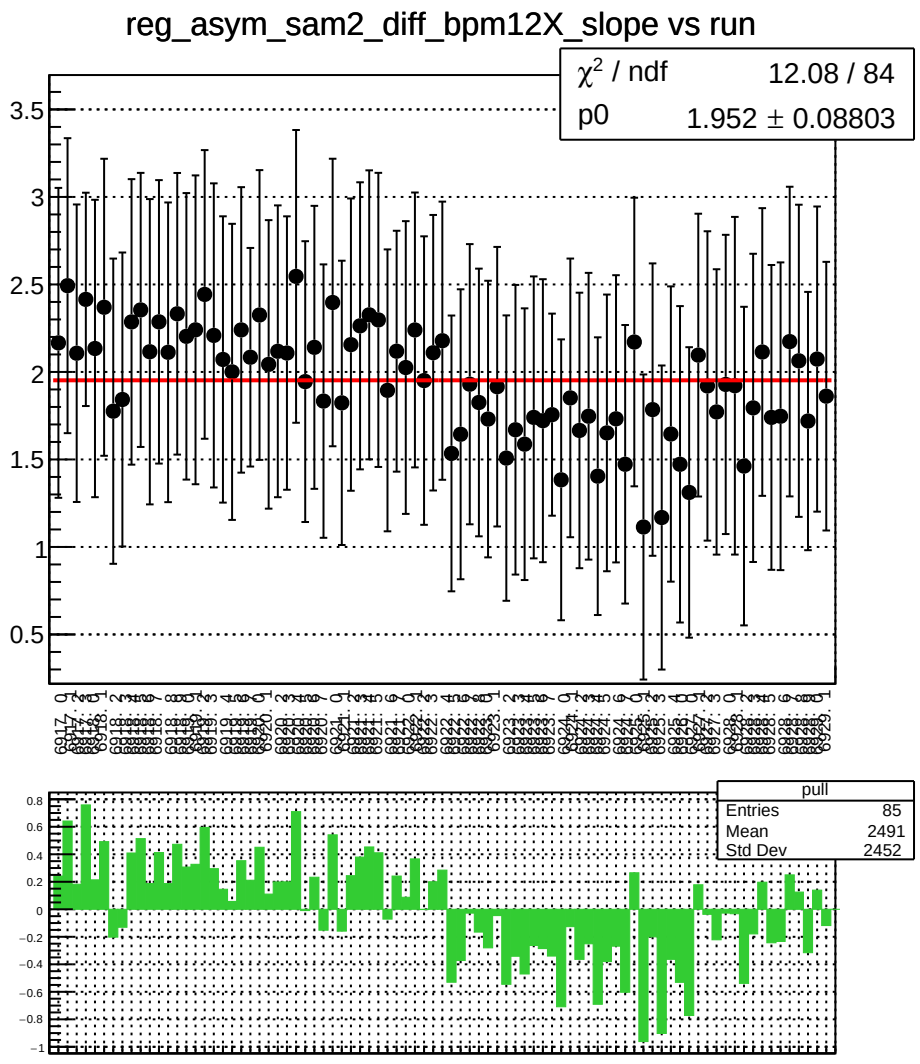

pull1D
Entries 85
Mean −0.0309
Std Dev 0.2976

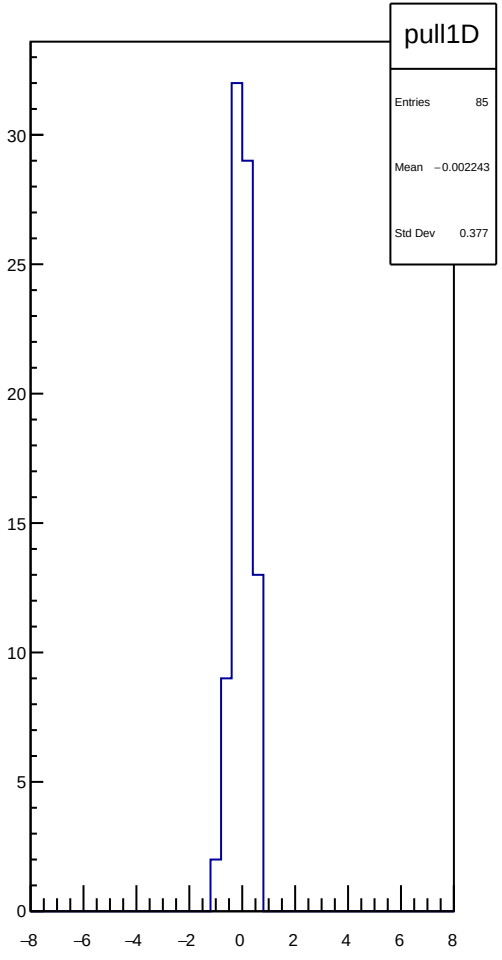

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.851 / 84
p0 −159.1± 2.46
pull
Entries 85
Mean −86.4
Std Dev 112.1

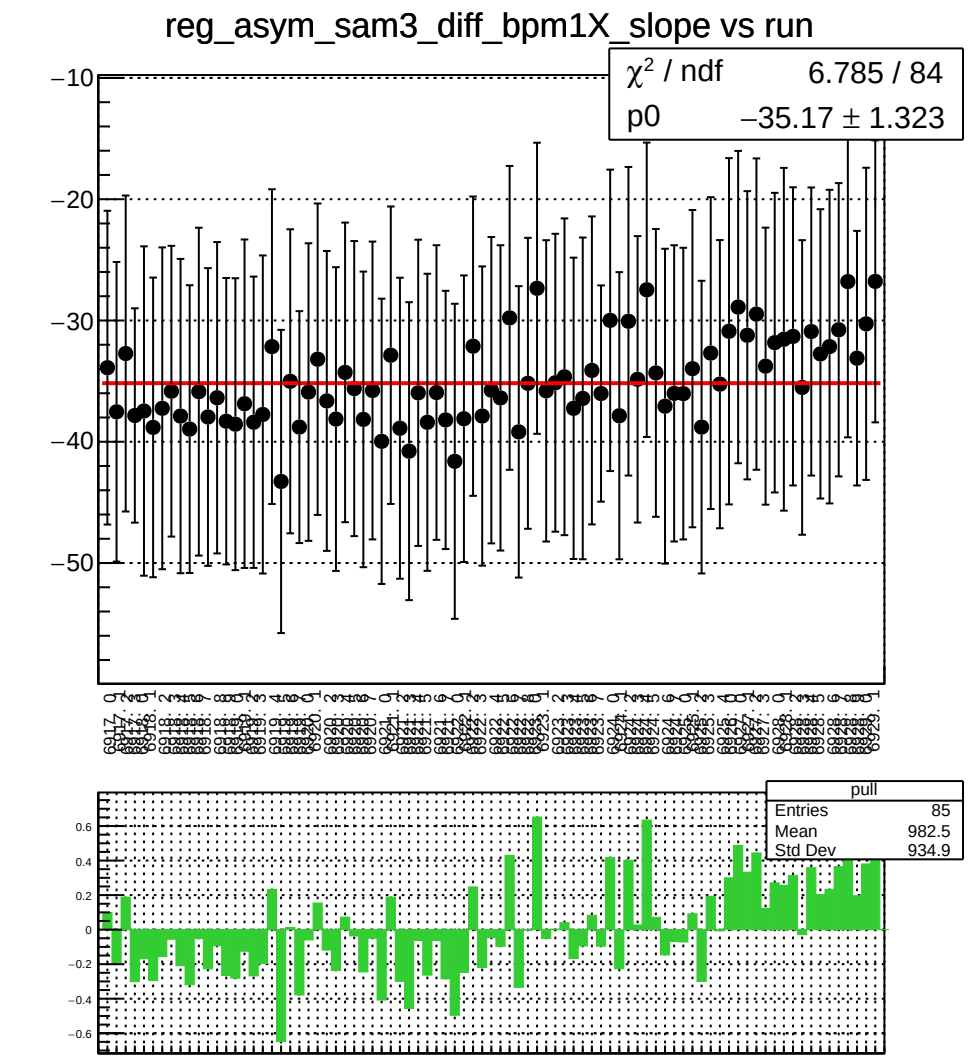

pull1D
Entries 85
Mean −0.00938
Std Dev 0.2387

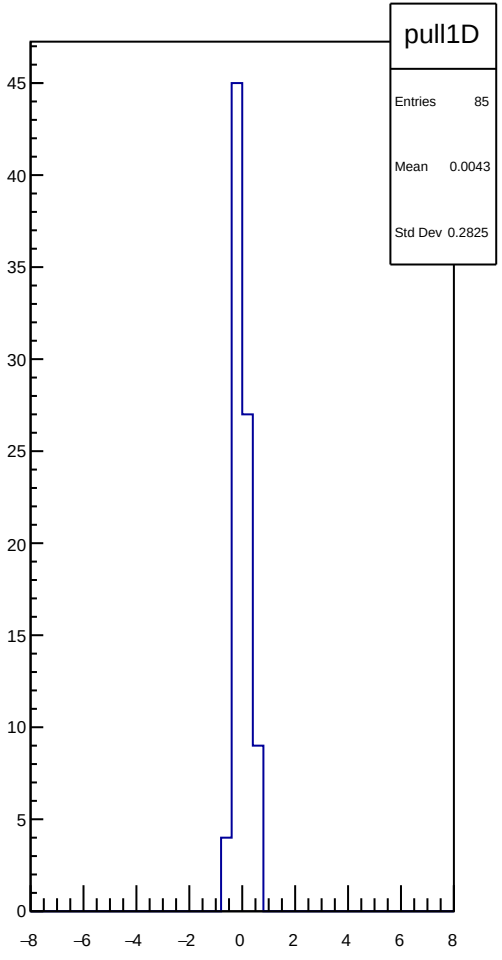

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 6.385 / 84
p0 −144.1± 2.067
pull
Entries 85
Mean −158.9
Std Dev 196.3

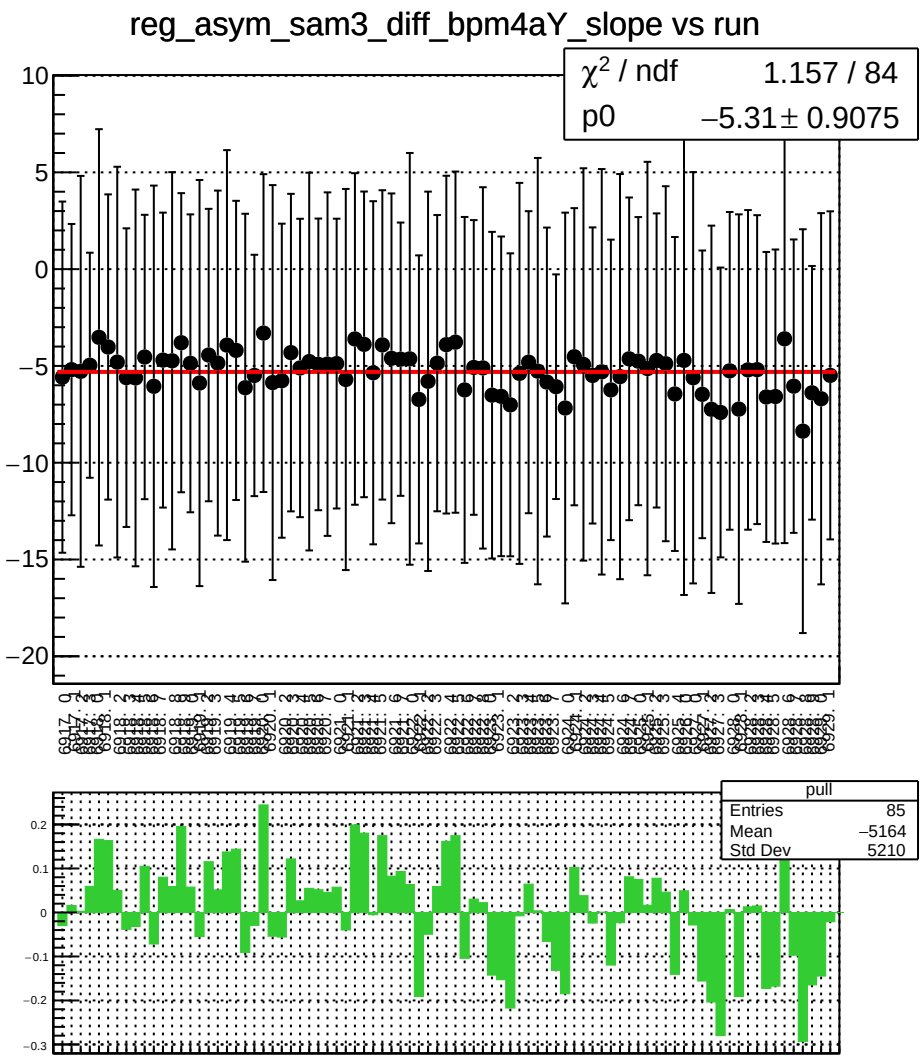

pull1D
Entries 85
Mean 0.01468
Std Dev 0.2737

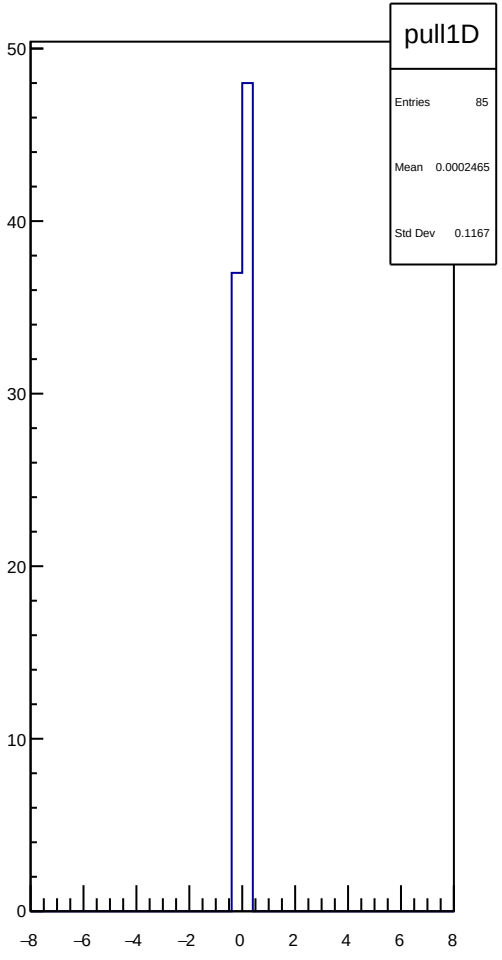

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 12.08 / 84
p0 1.952 ± 0.08803
pull
Entries 85
Mean 2491
Std Dev 2452

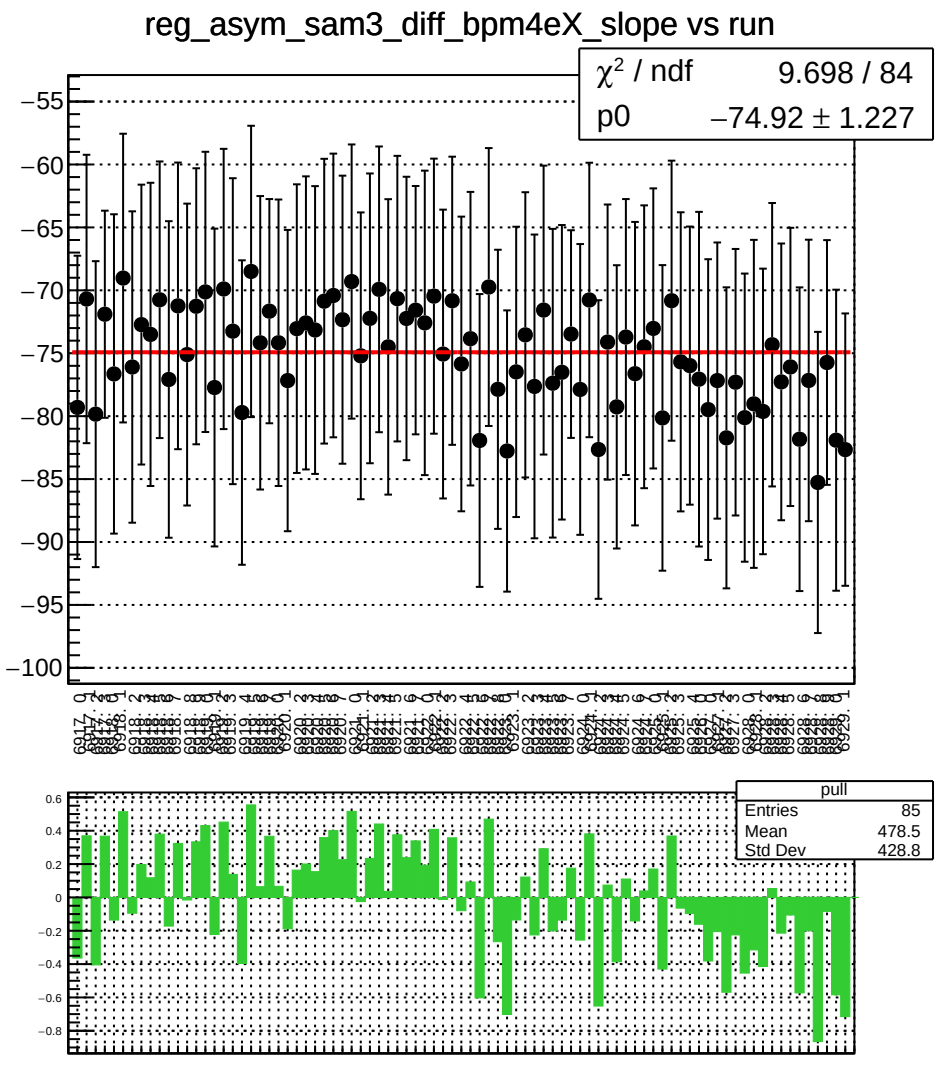

pull1D
Entries 85
Mean −0.002243
Std Dev 0.377

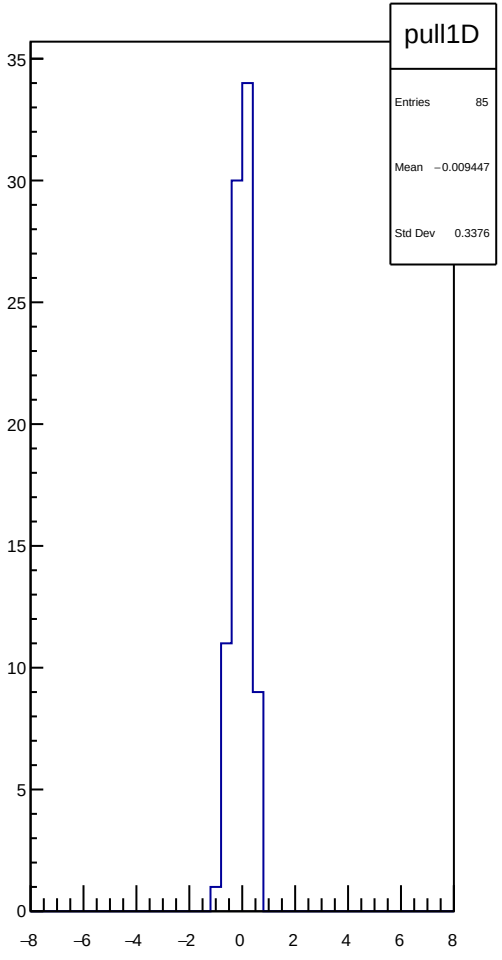

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 6.785 / 84
p0 −35.17 ± 1.323
pull
Entries 85
Mean 982.5
Std Dev 934.9

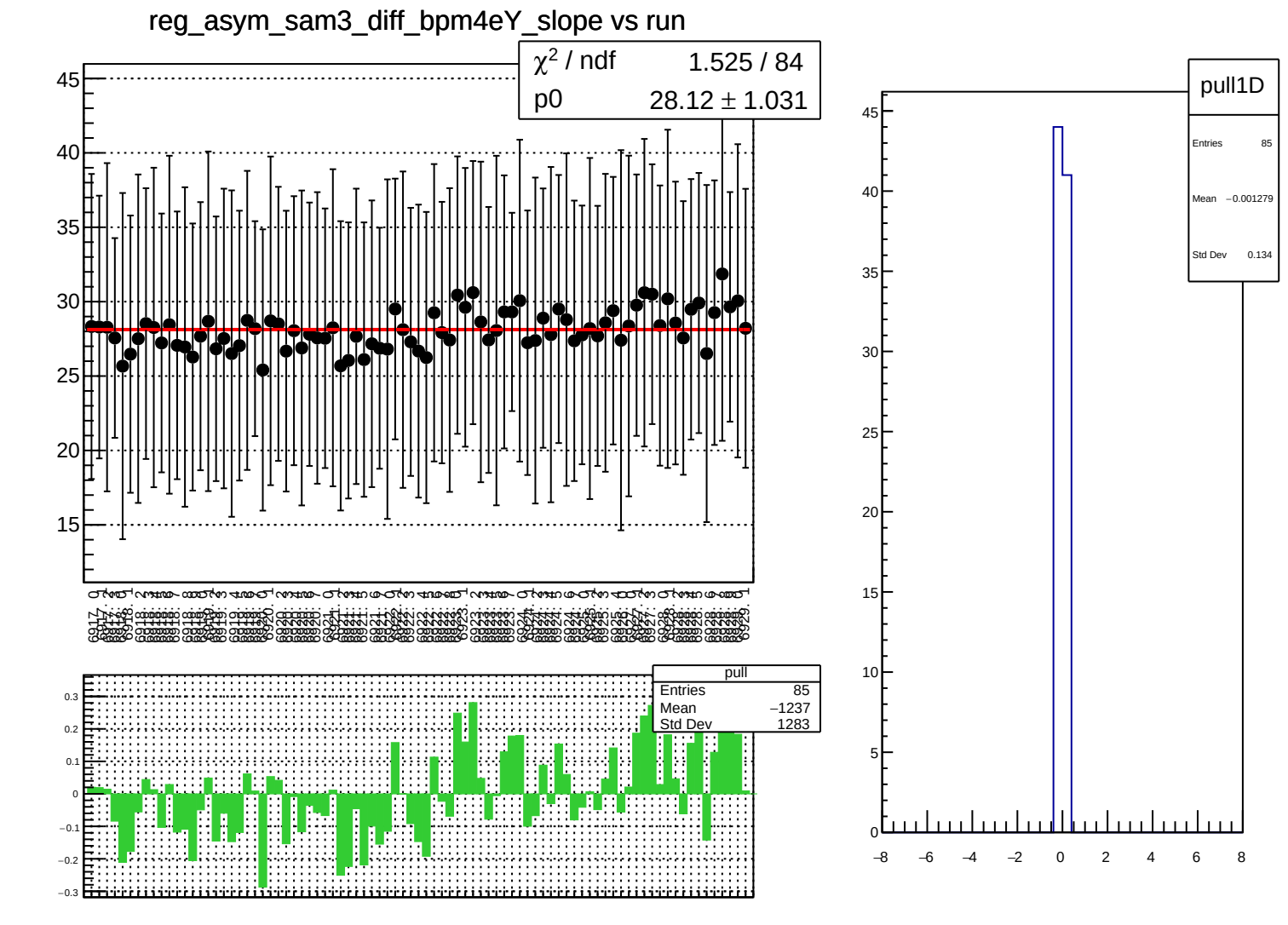

pull1D
Entries 85
Mean 0.0043
Std Dev 0.2825

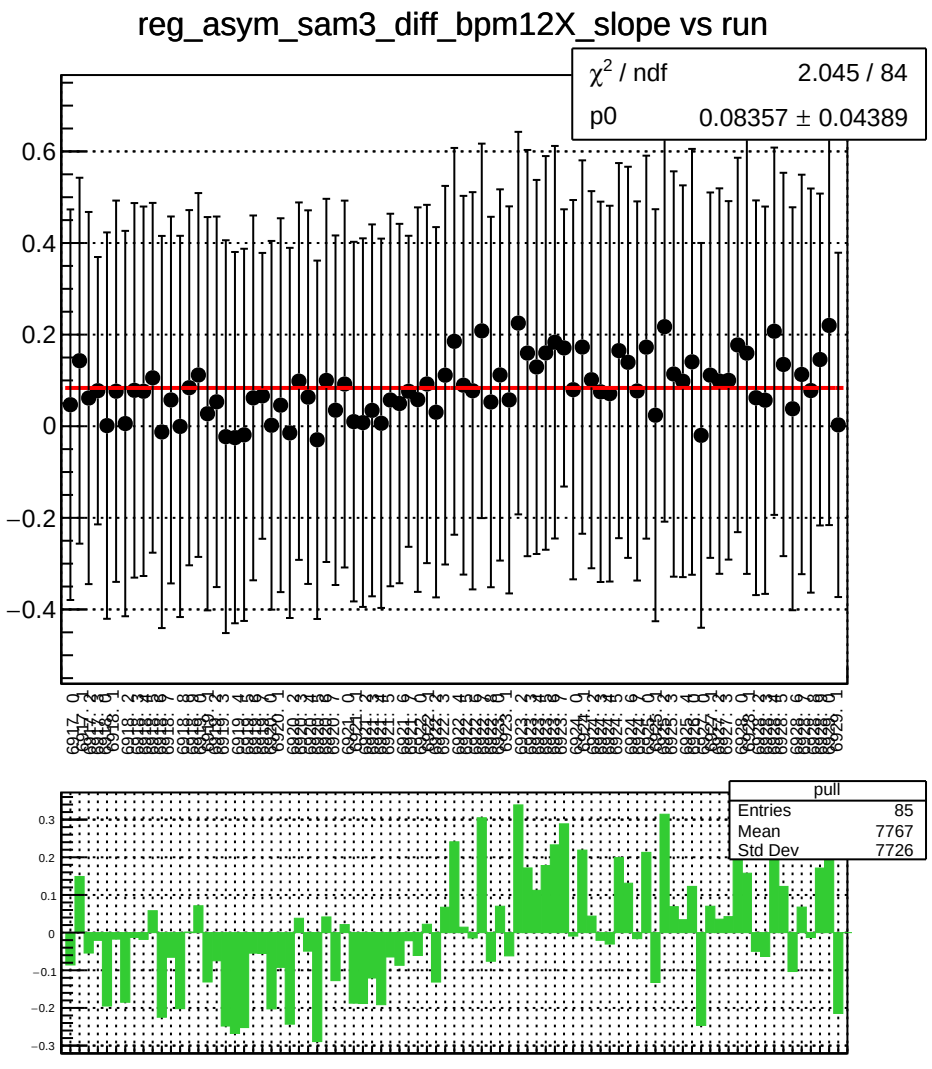

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.157 / 84
p0 −5.31 ± 0.9075
pull
Entries 85
Mean −5164
Std Dev 5210

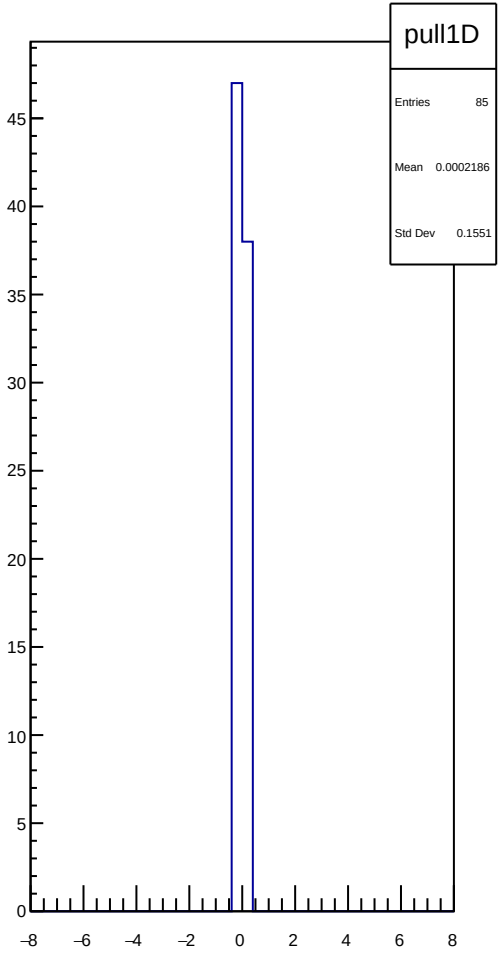

pull1D
Entries 85
Mean 0.0002465
Std Dev 0.1167

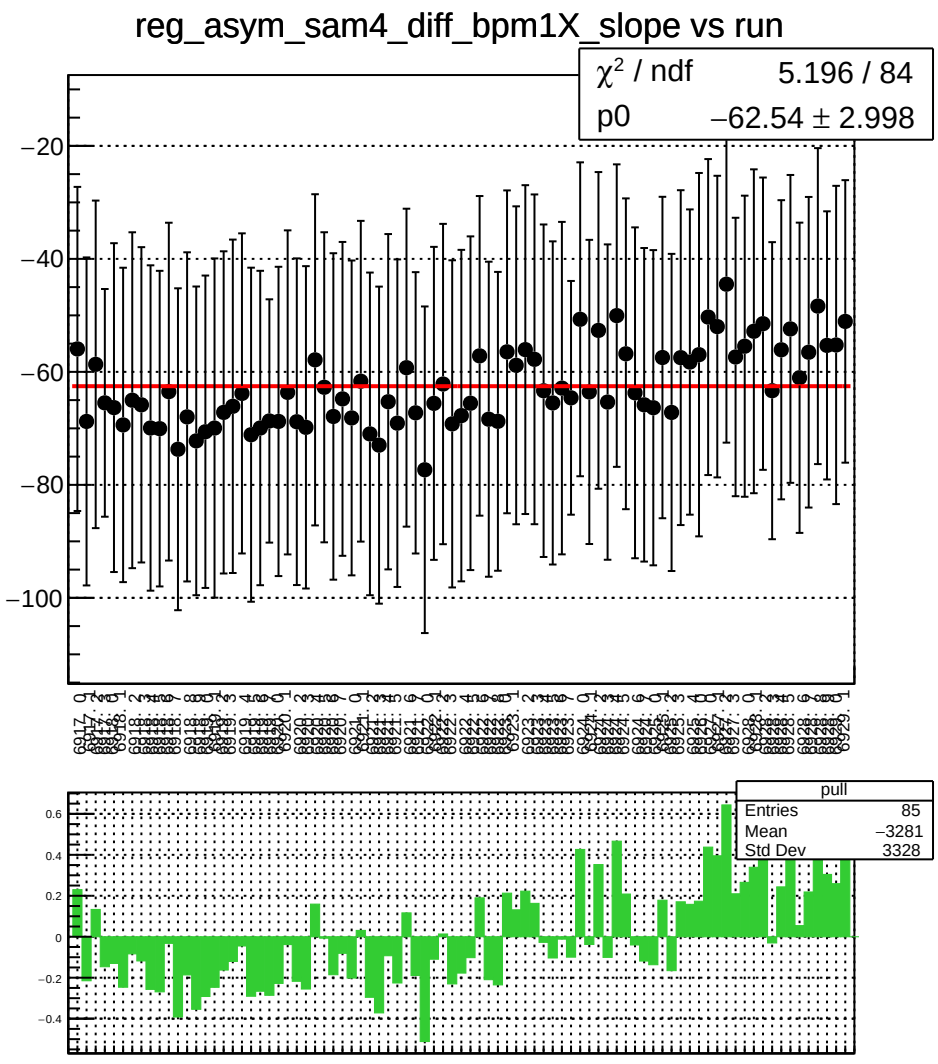

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 9.698 / 84
p0 −74.92 ± 1.227
pull
Entries 85
Mean 478.5
Std Dev 428.8

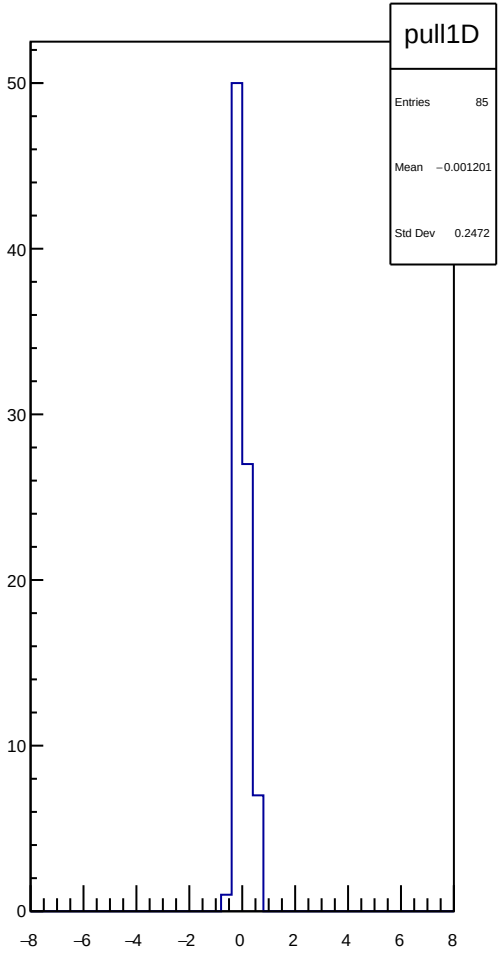

pull1D
Entries 85
Mean −0.009447
Std Dev 0.3376

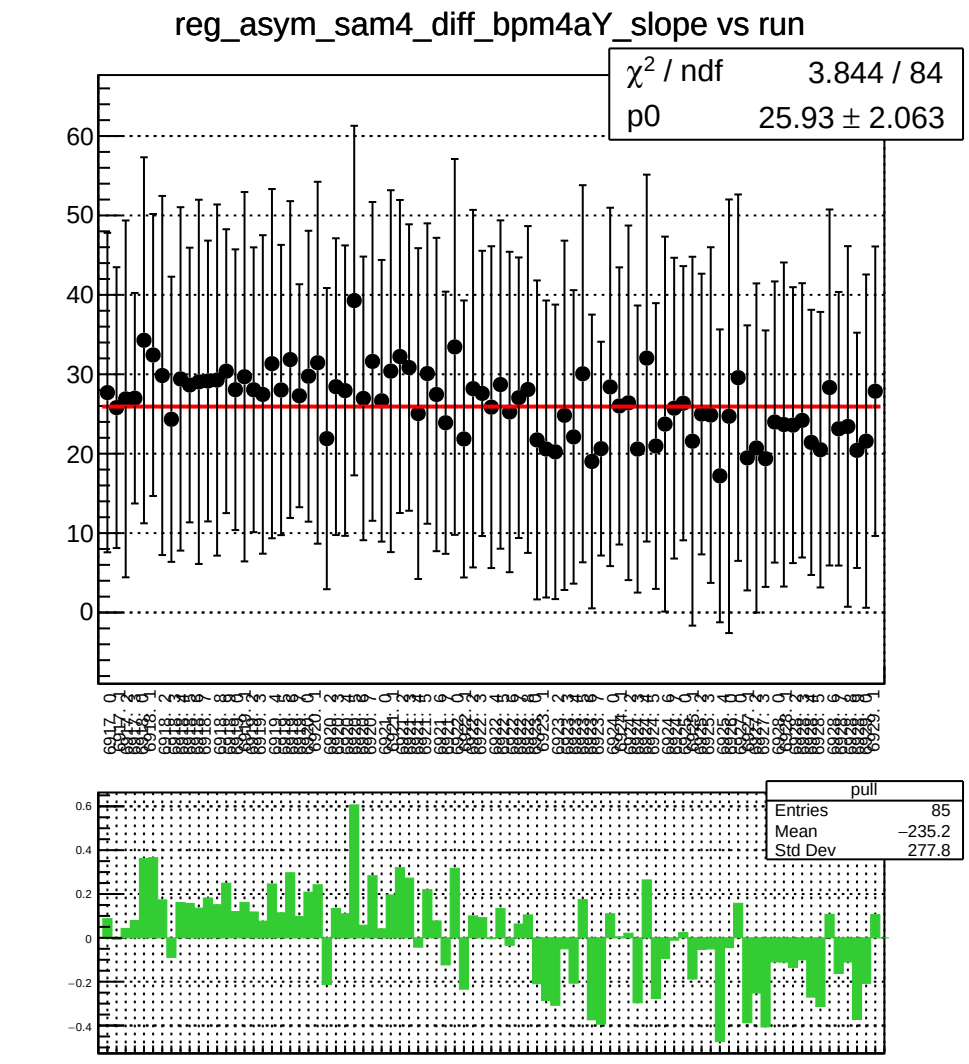

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.525 / 84
p0 28.12 ± 1.031
pull
Entries 85
Mean −1237
Std Dev 1283
pull1D
Entries 85
Mean −0.001279
Std Dev 0.134

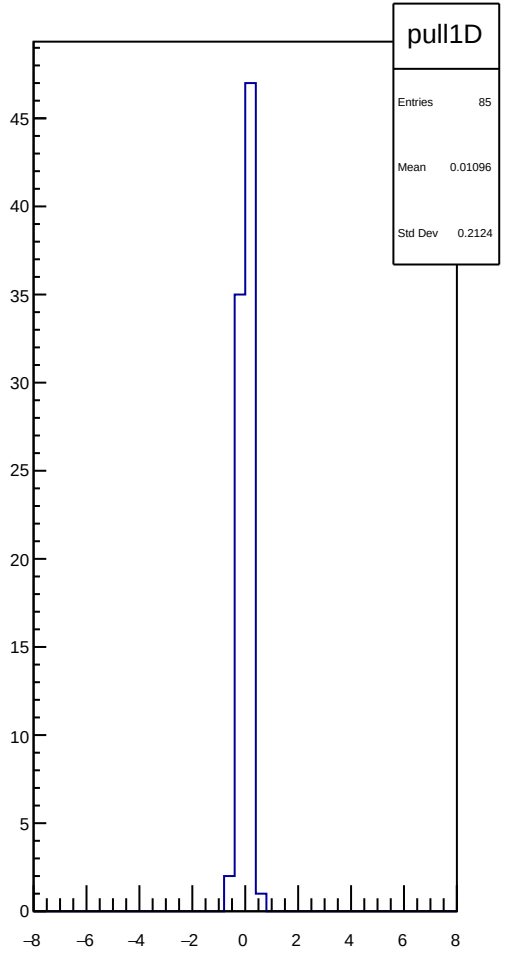

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.045 / 84
p0 0.08357 ± 0.04389
pull
Entries 85
Mean 7767
Std Dev 7726

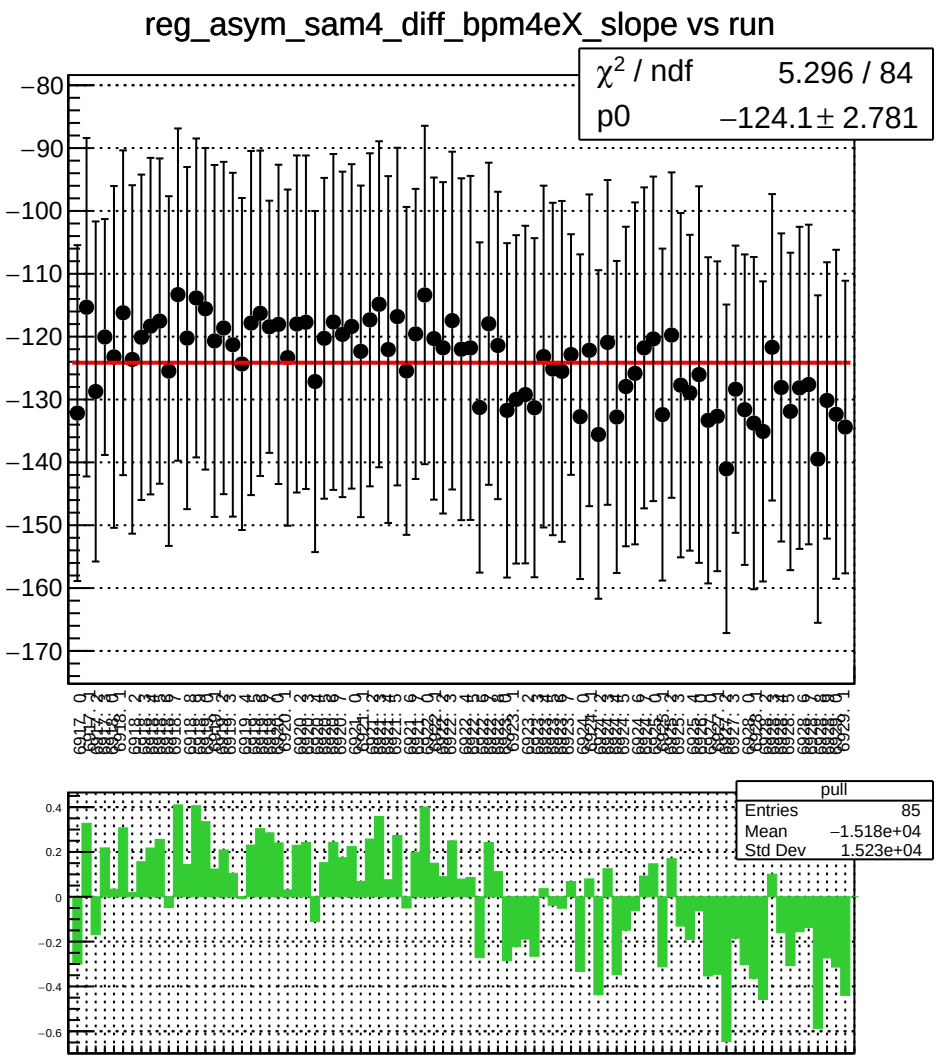

pull1D
Entries 85
Mean 0.0002186
Std Dev 0.1551

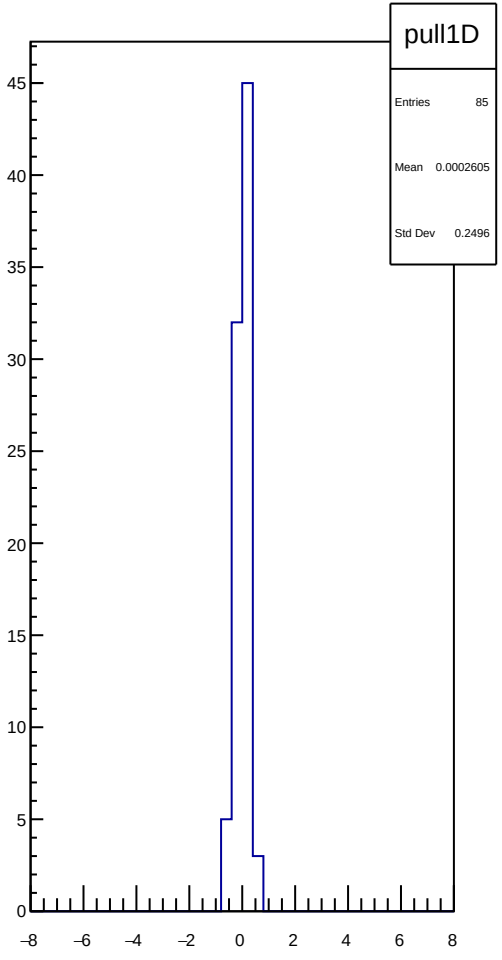

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 5.196 / 84
p0 −62.54 ± 2.998
pull
Entries 85
Mean −3281
Std Dev 3328

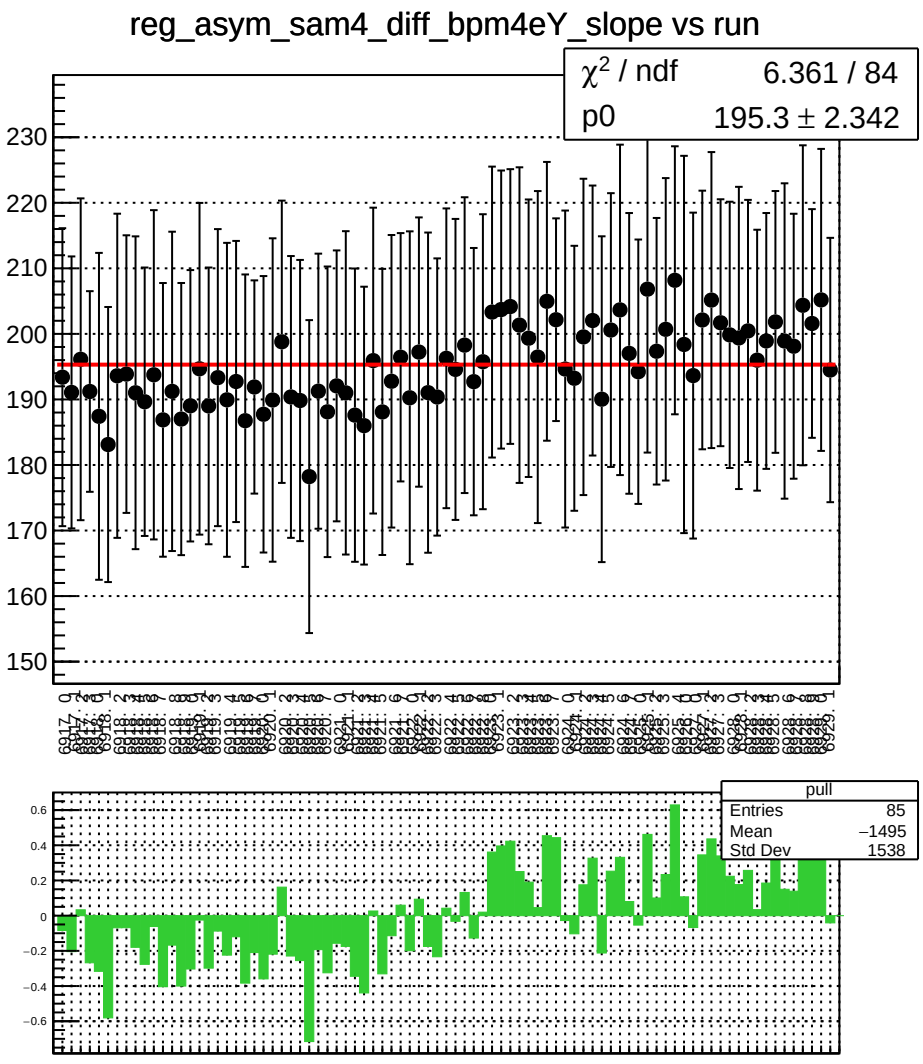

pull1D
Entries 85
Mean −0.001201
Std Dev 0.2472

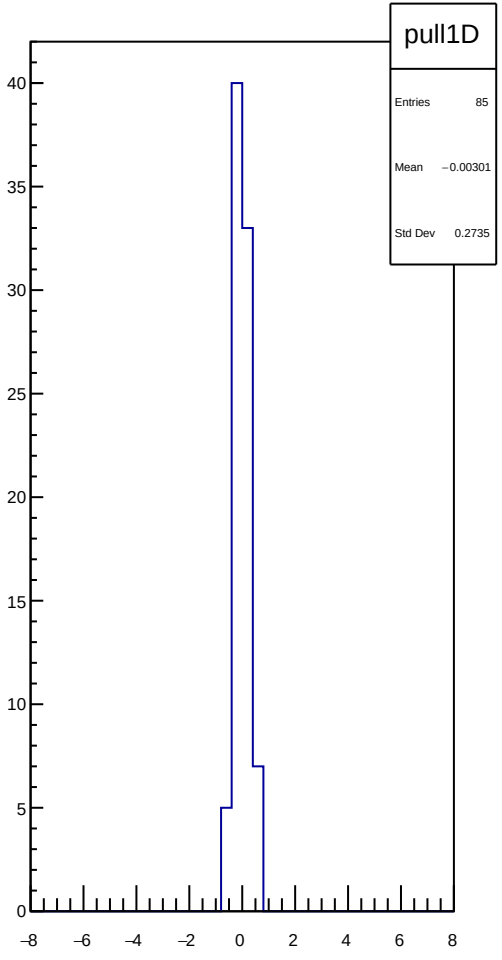

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 3.844 / 84
p0 25.93 ± 2.063
pull
Entries 85
Mean −235.2
Std Dev 277.8

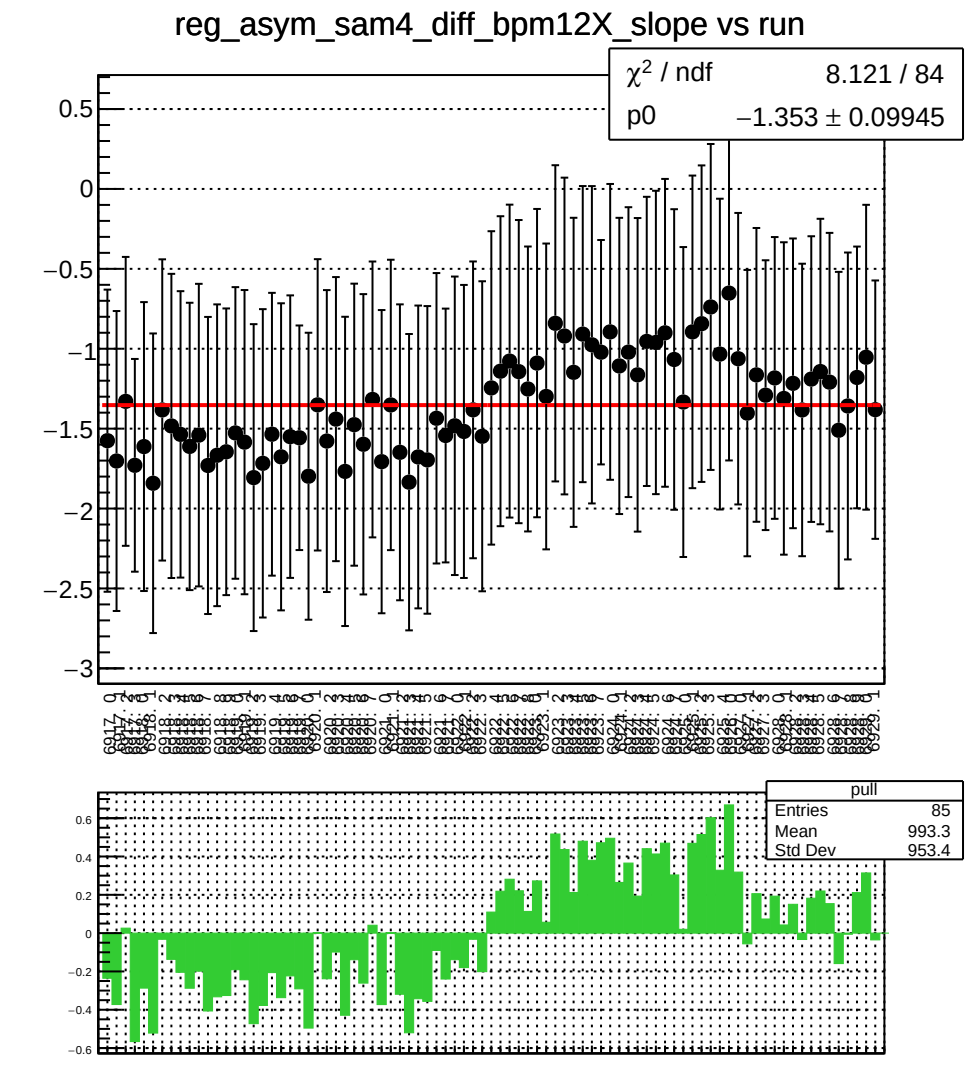

pull1D
Entries 85
Mean 0.01096
Std Dev 0.2124

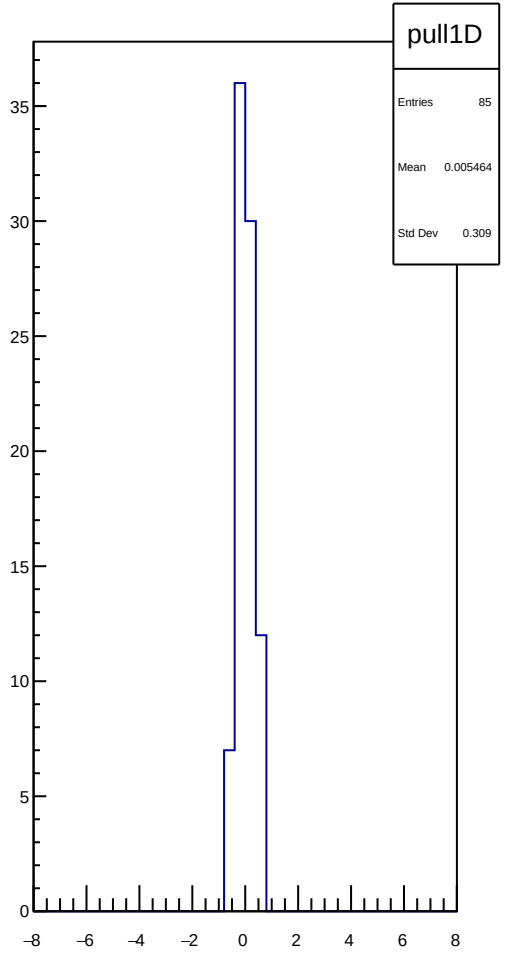

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 5.296 / 84
p0 −124.1 ± 2.781
pull
Entries 85
Mean −1.518e+04
Std Dev 1.523e+04

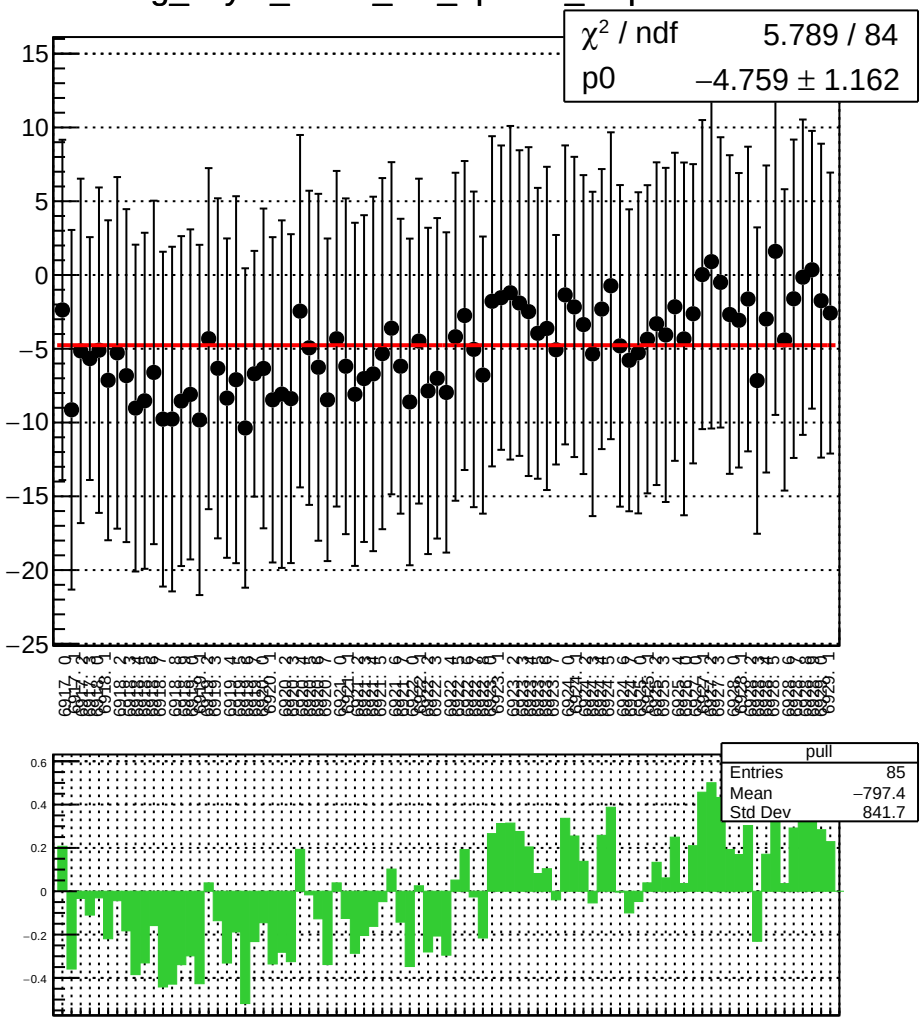

pull1D
Entries 85
Mean 0.0002605
Std Dev 0.2496

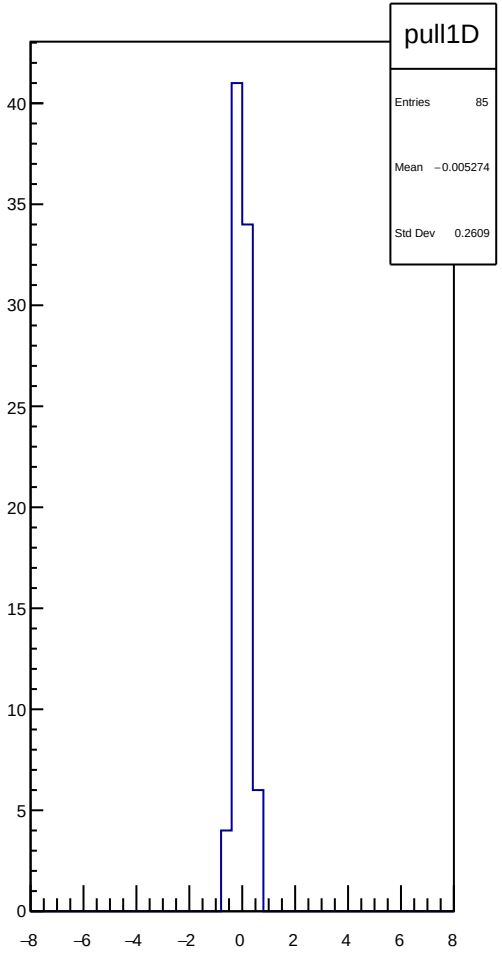

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 6.361 / 84
p0 195.3 ± 2.342
pull
Entries 85
Mean −1495
Std Dev 1538

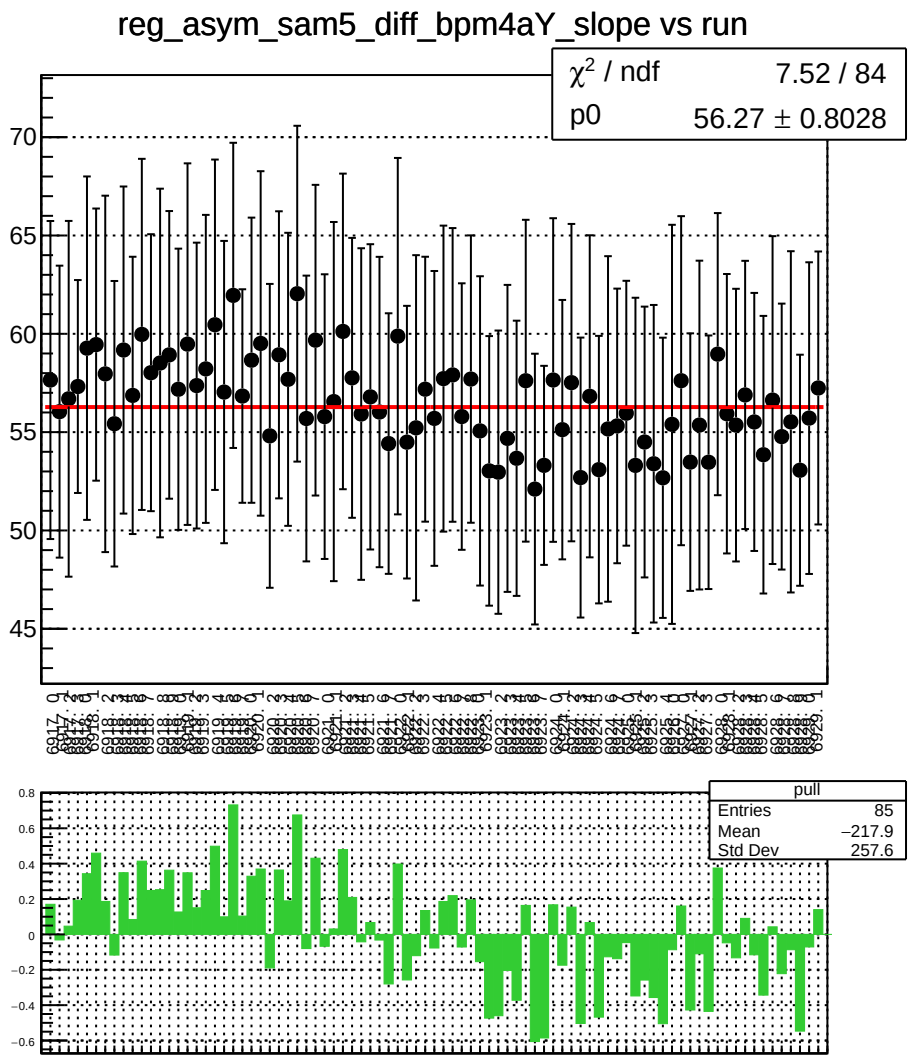

pull1D
Entries 85
Mean −0.00301
Std Dev 0.2735

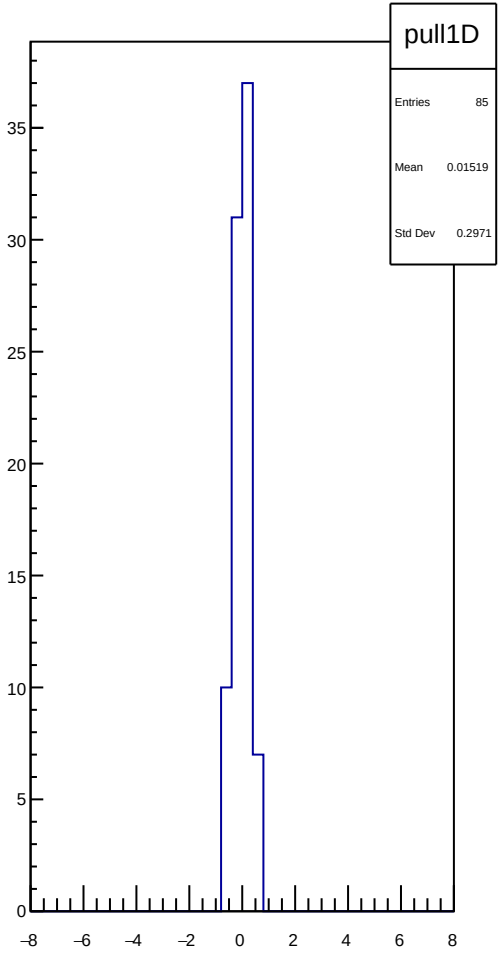

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 8.121 / 84
p0 −1.353 ± 0.09945
pull
Entries 85
Mean 993.3
Std Dev 953.4

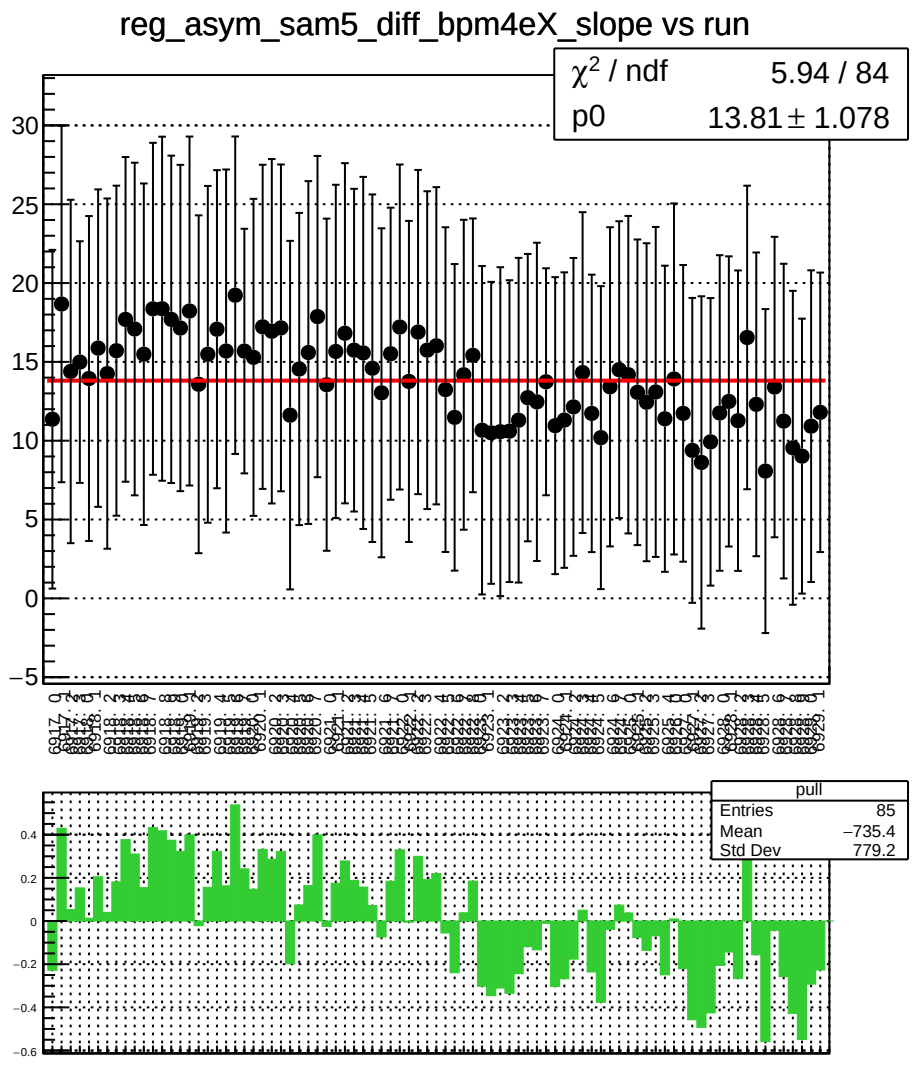

pull1D
Entries 85
Mean 0.005464
Std Dev 0.309

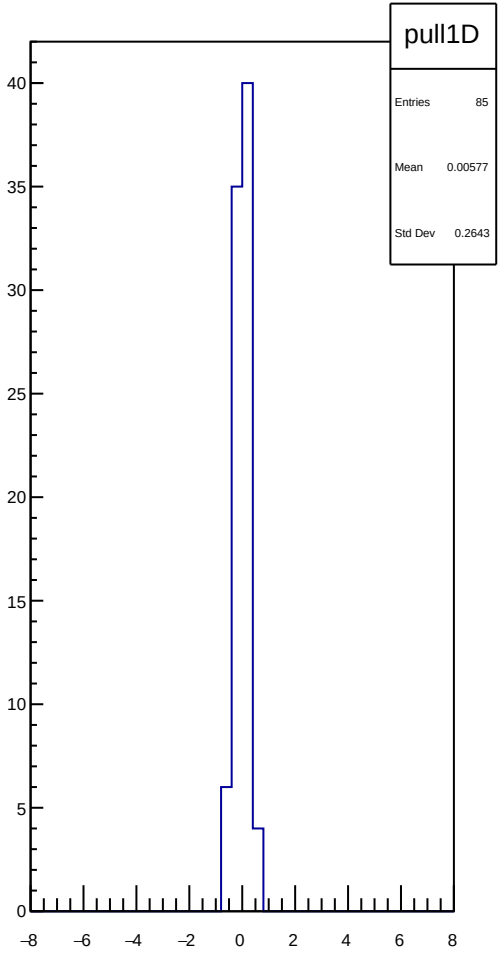

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 5.789 / 84
p0 −4.759 ± 1.162
pull
Entries 85
Mean −797.4
Std Dev 841.7

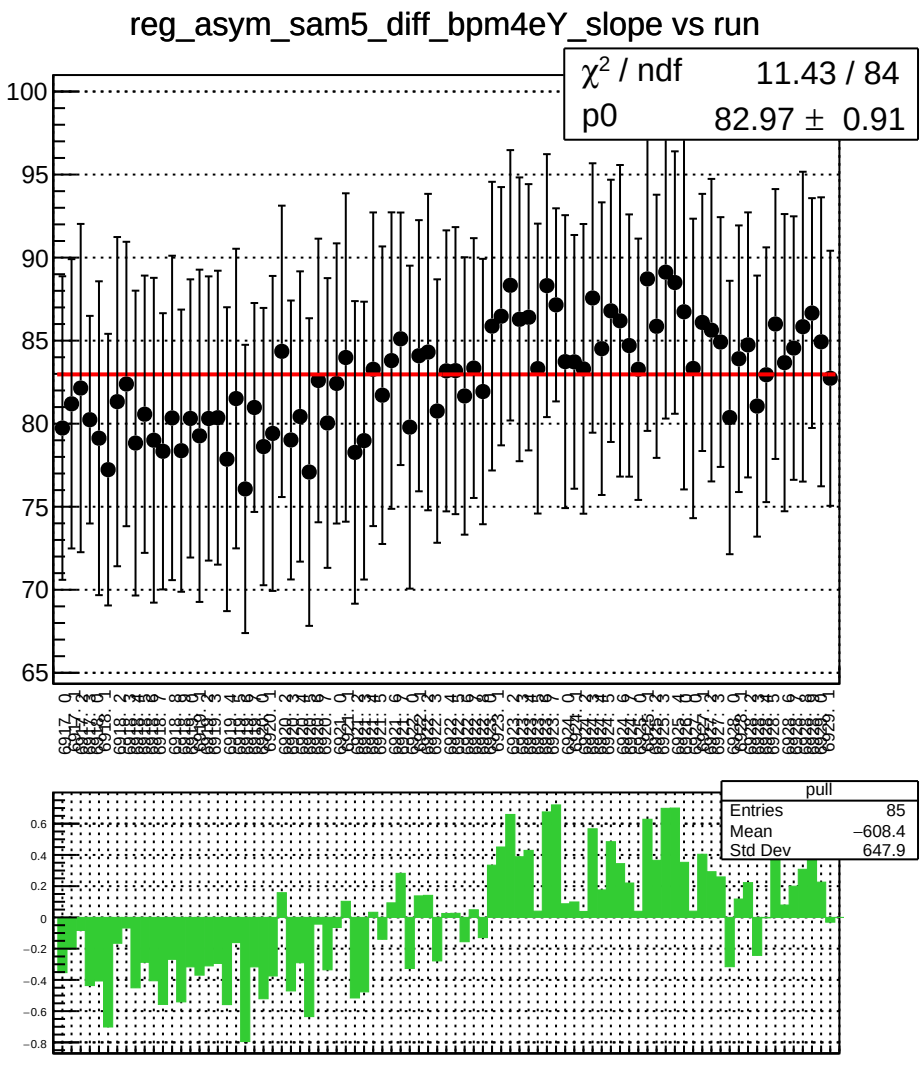

pull1D
Entries 85
Mean −0.005274
Std Dev 0.2609

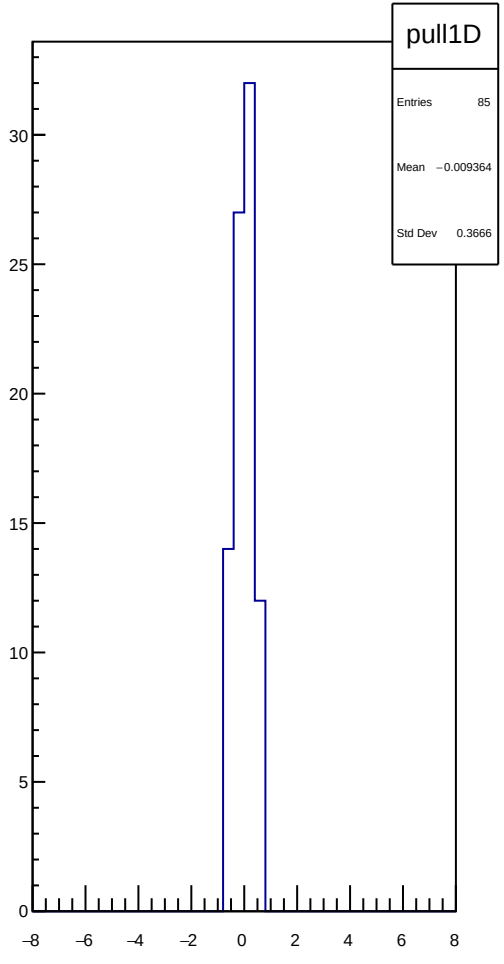

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 7.52 / 84
p0 56.27 ± 0.8028
pull
Entries 85
Mean −217.9
Std Dev 257.6

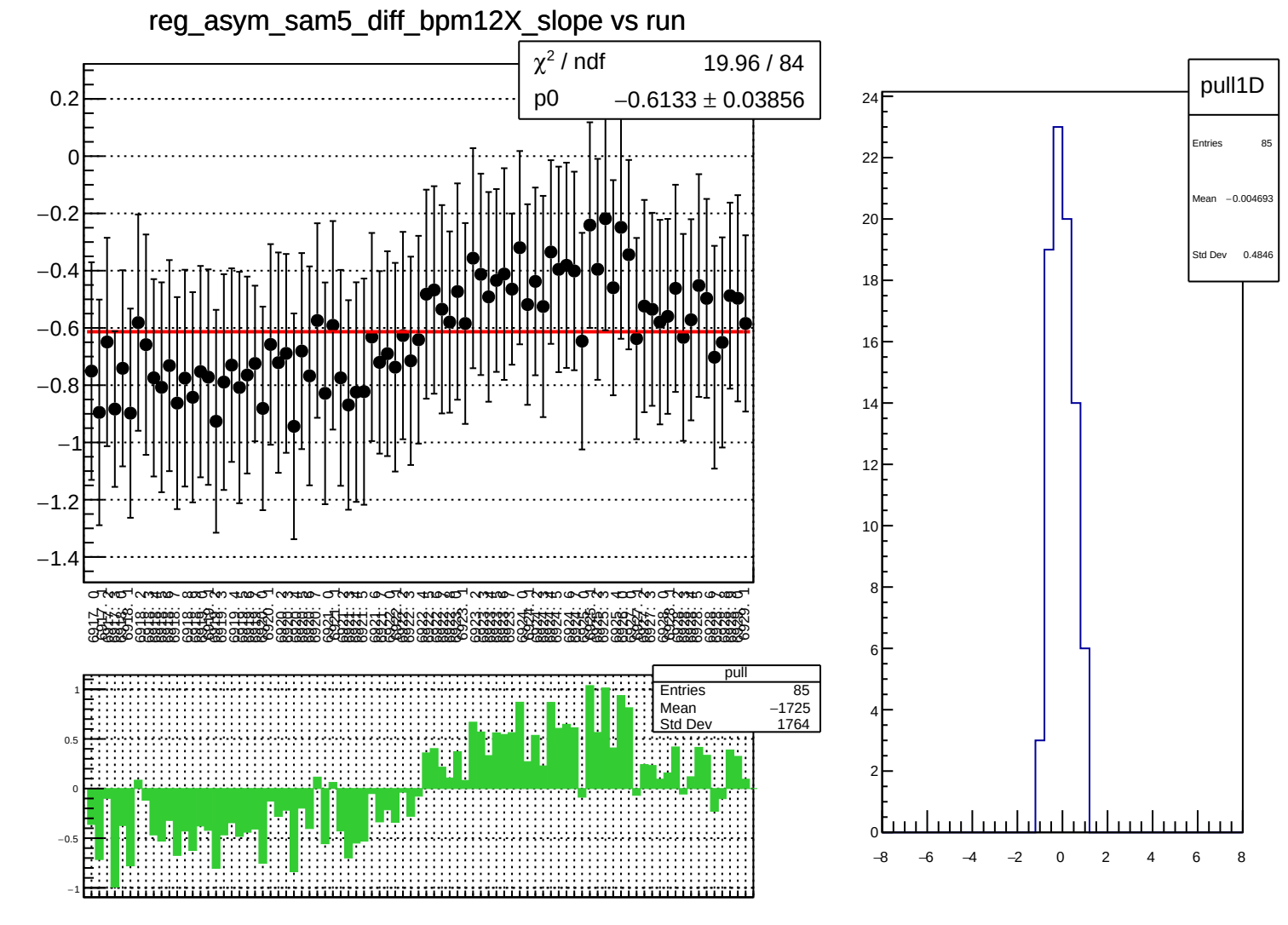

pull1D
Entries 85
Mean 0.01519
Std Dev 0.2971

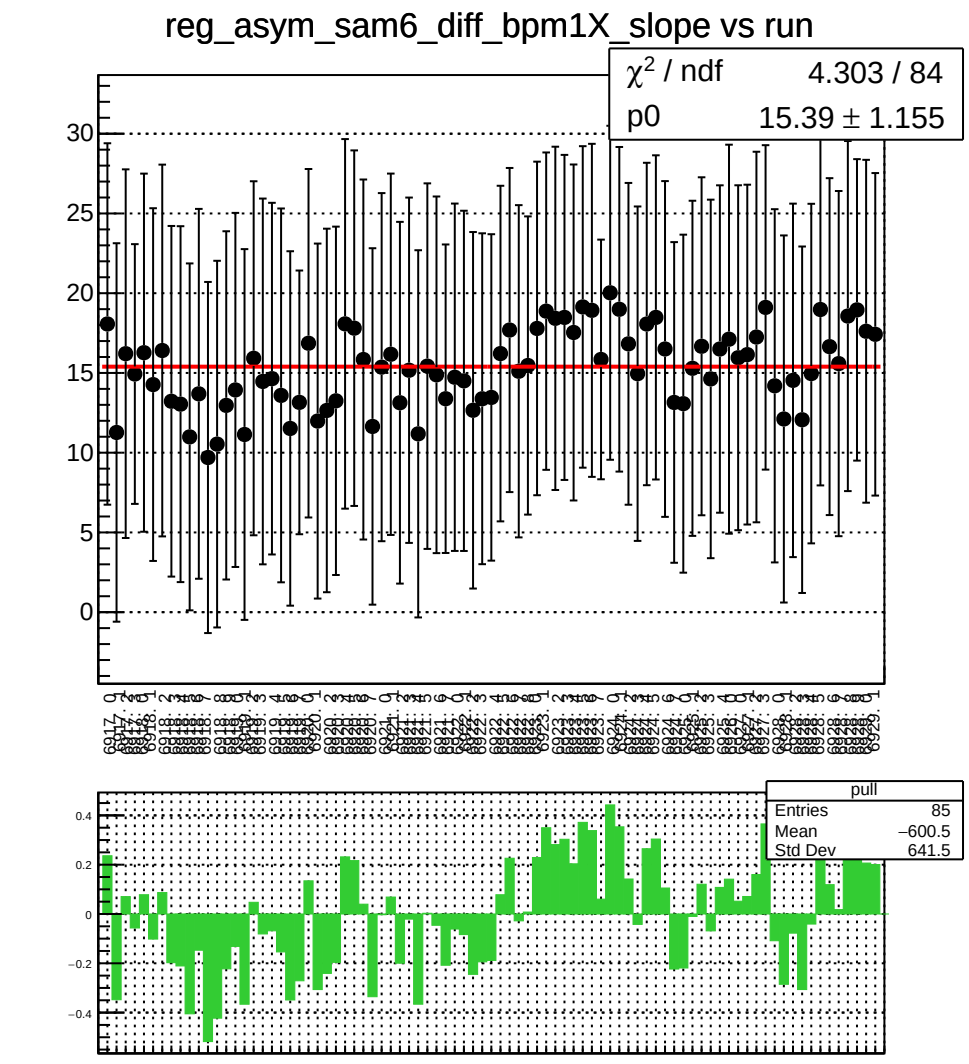

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 5.94 / 84
p0 13.81 ± 1.078
pull
Entries 85
Mean −735.4
Std Dev 779.2

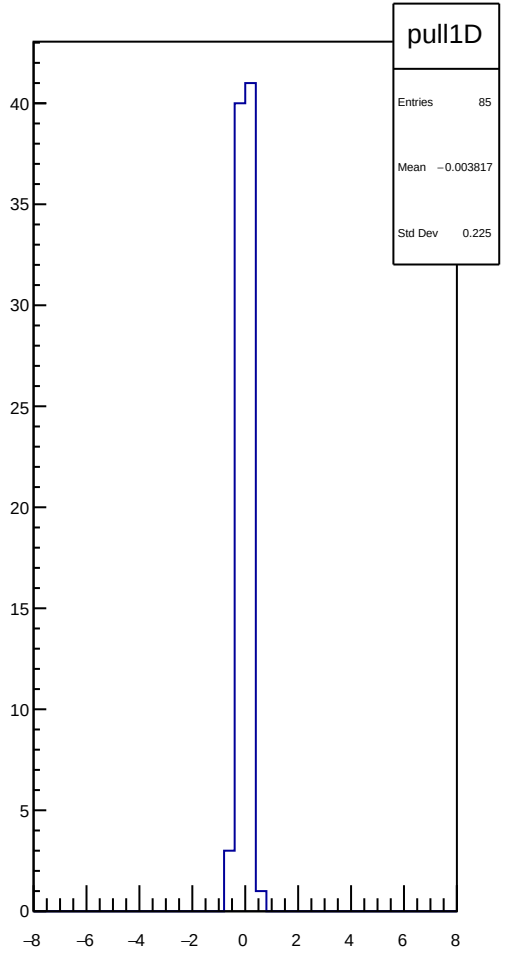

pull1D
Entries 85
Mean 0.00577
Std Dev 0.2643

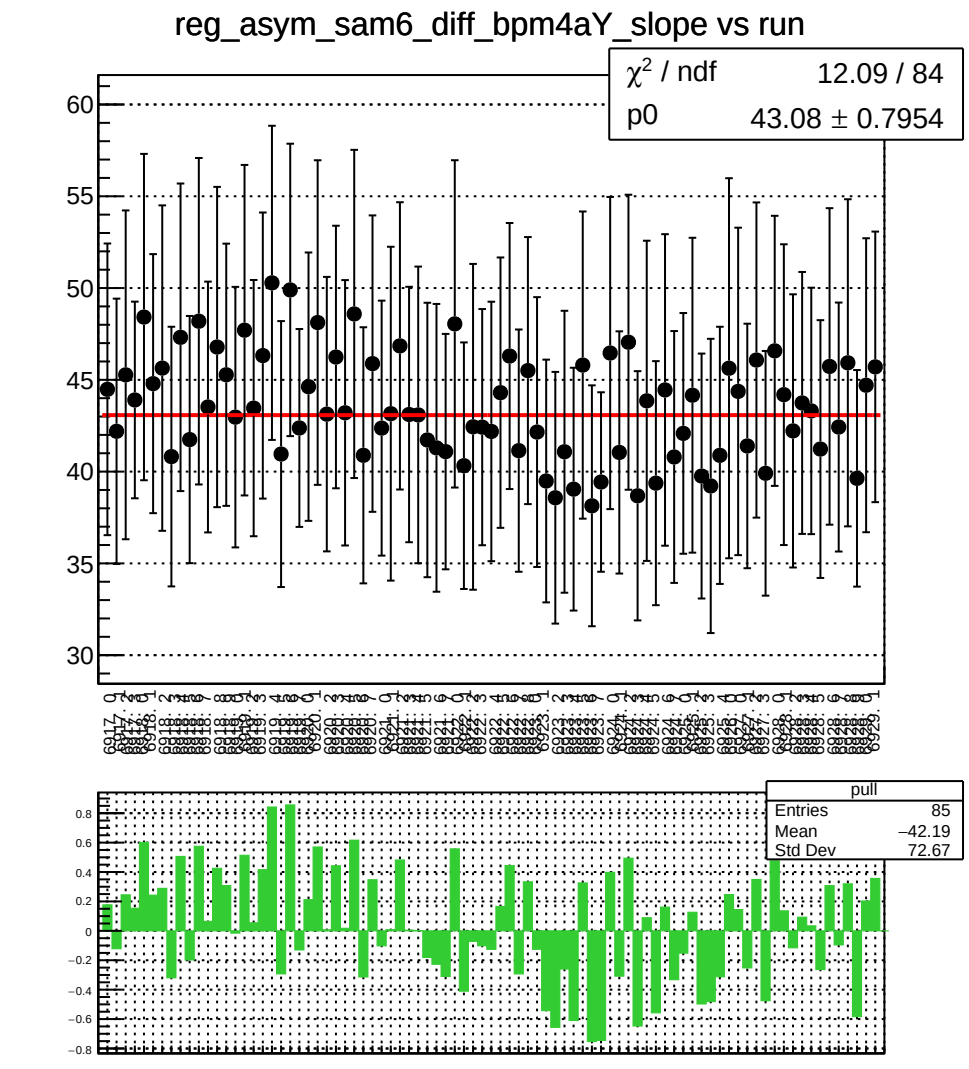

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 11.43 / 84
p0 82.97 ± 0.91
pull
Entries 85
Mean −608.4
Std Dev 647.9

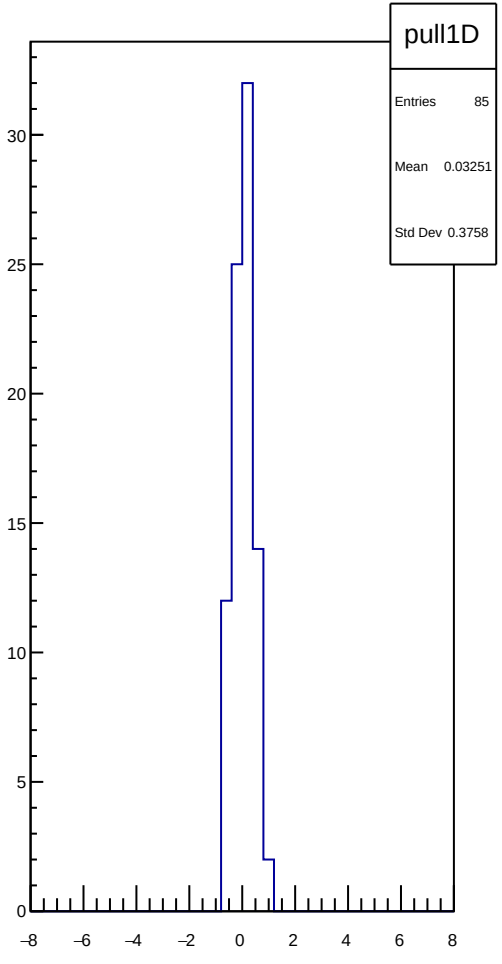

pull1D
Entries 85
Mean −0.009364
Std Dev 0.3666

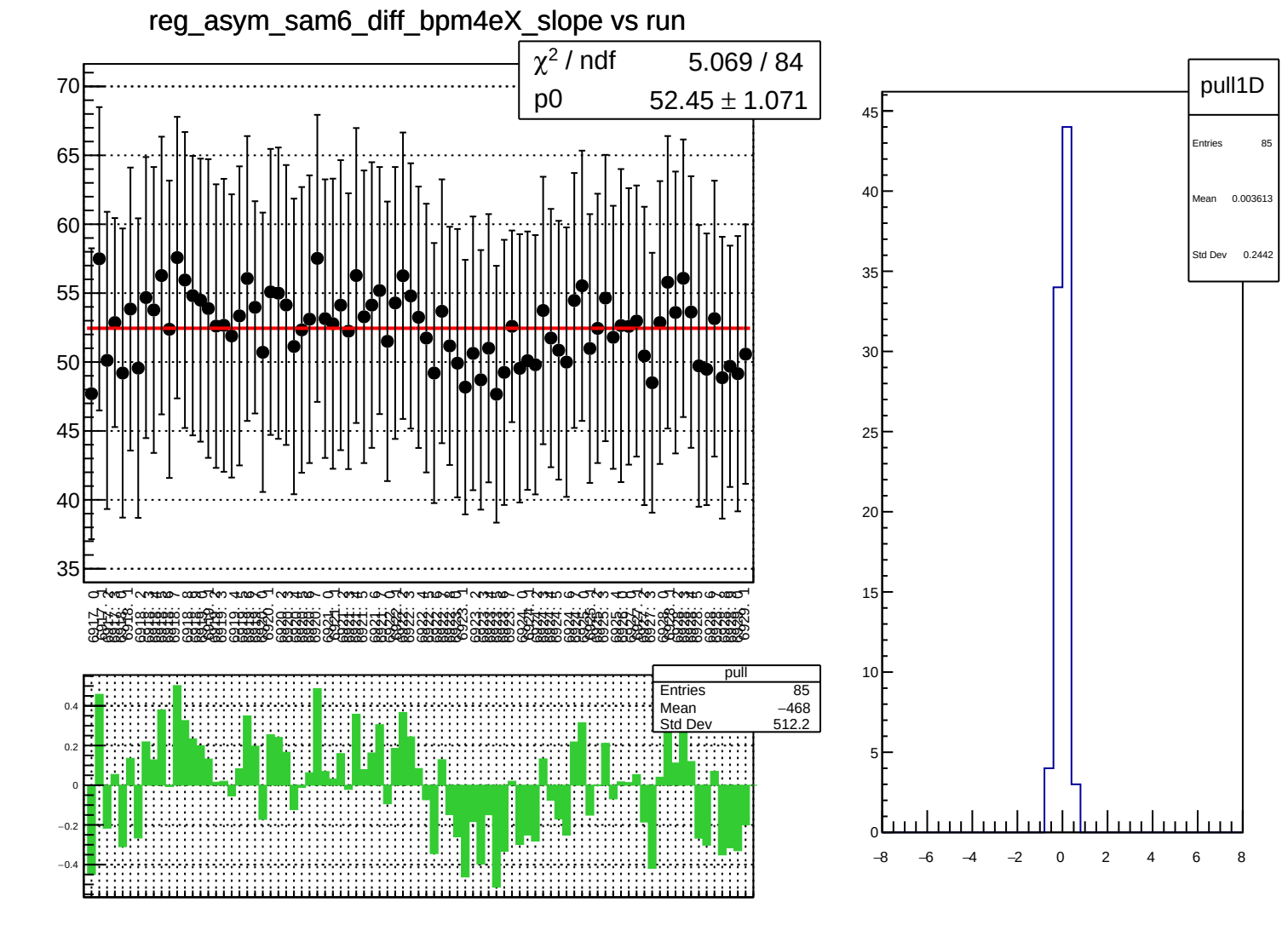

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 19.96 / 84
p0 −0.6133 ± 0.03856
pull
Entries 85
Mean −1725
Std Dev 1764
pull1D
Entries 85
Mean −0.004693
Std Dev 0.4846

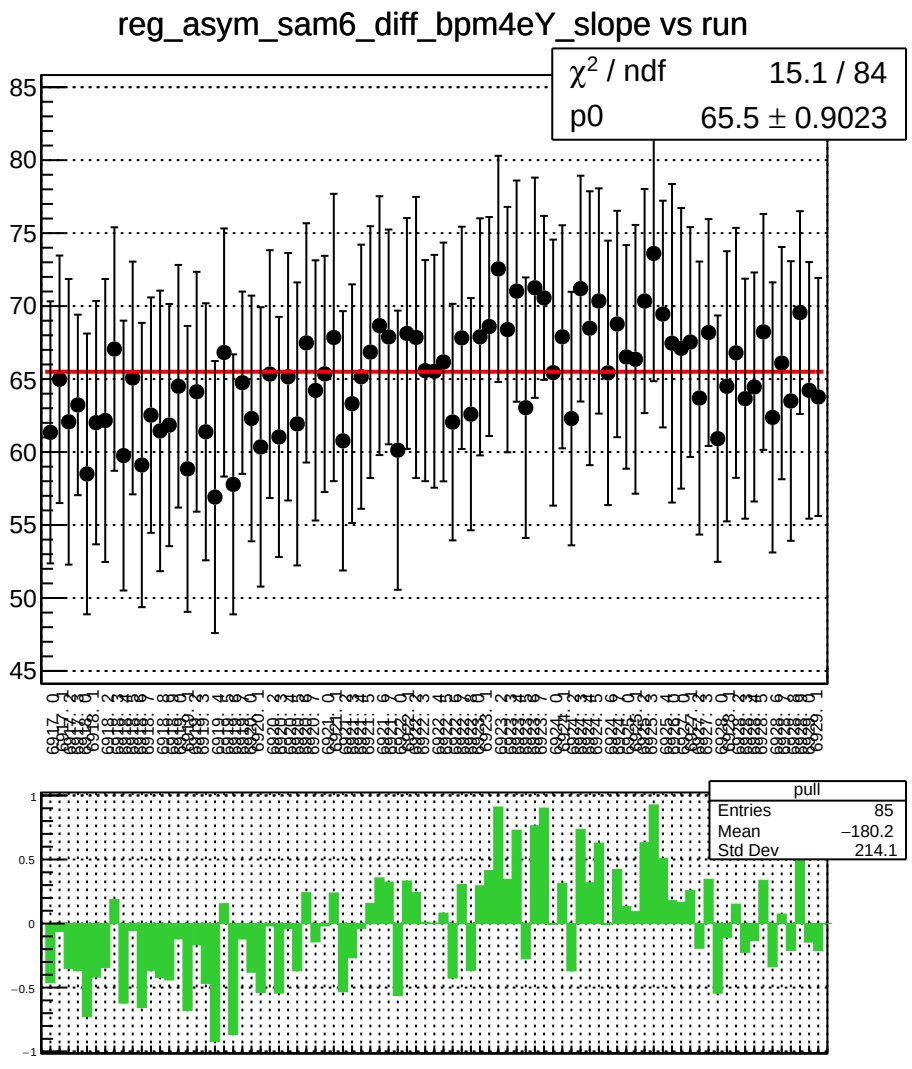

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 4.303 / 84
p0 15.39 ± 1.155
pull
Entries 85
Mean −600.5
Std Dev 641.5

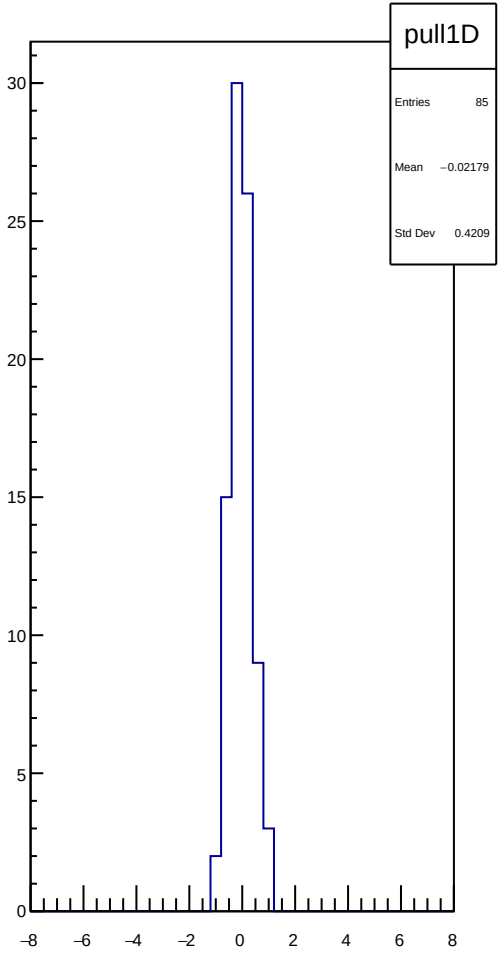

pull1D
Entries 85
Mean −0.003817
Std Dev 0.225

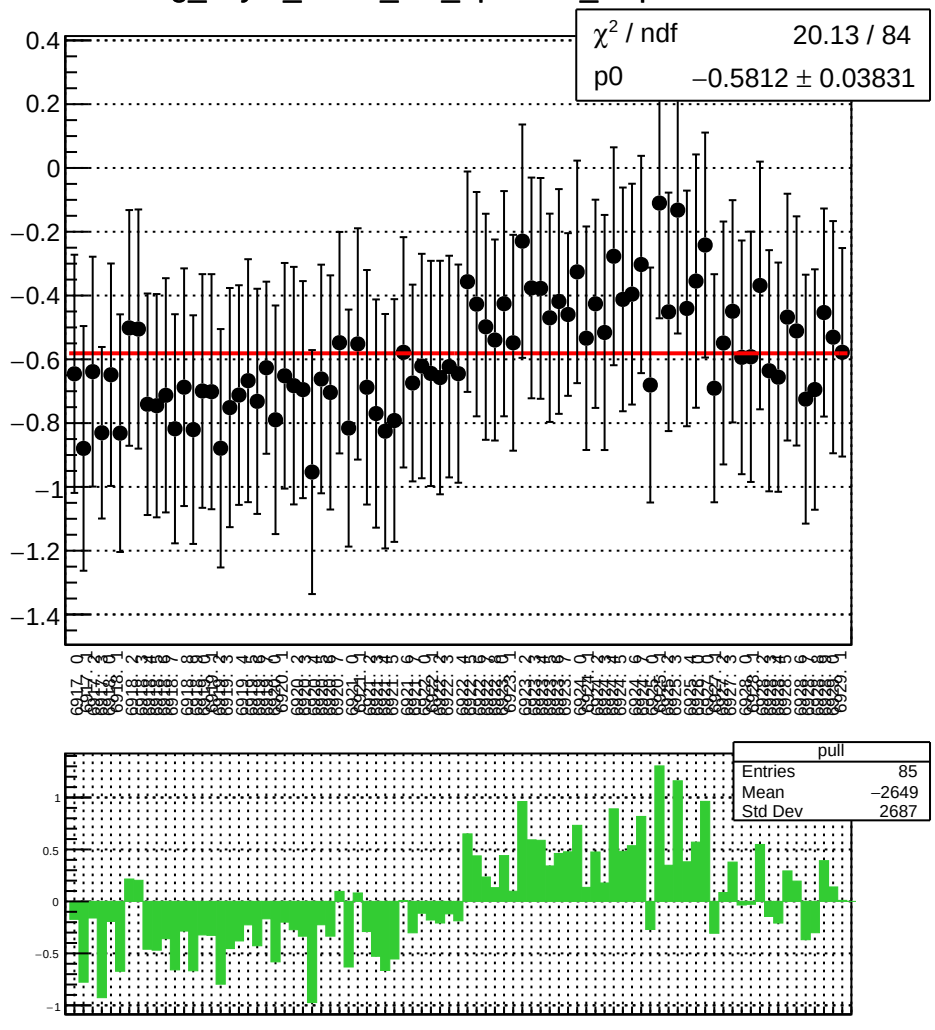

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 12.09 / 84
p0 43.08 ± 0.7954
pull
Entries 85
Mean −42.19
Std Dev 72.67

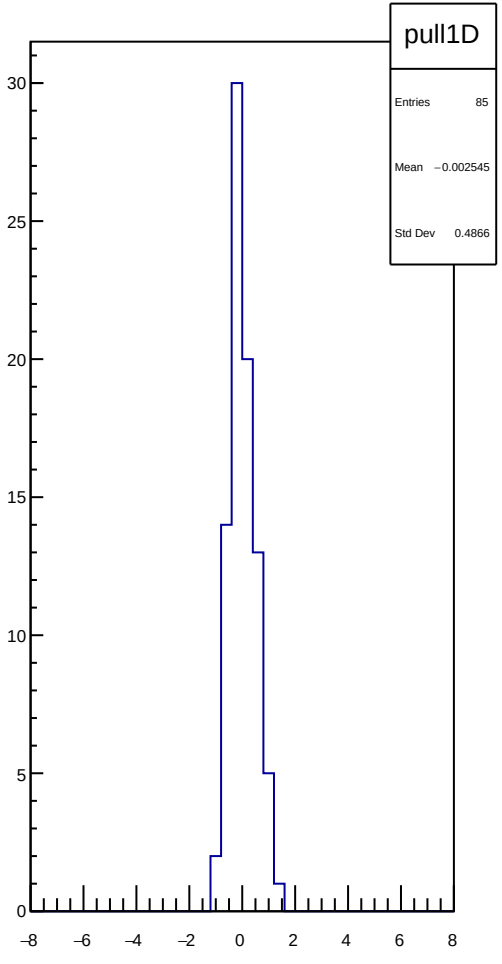

pull1D
Entries 85
Mean 0.03251
Std Dev 0.3758

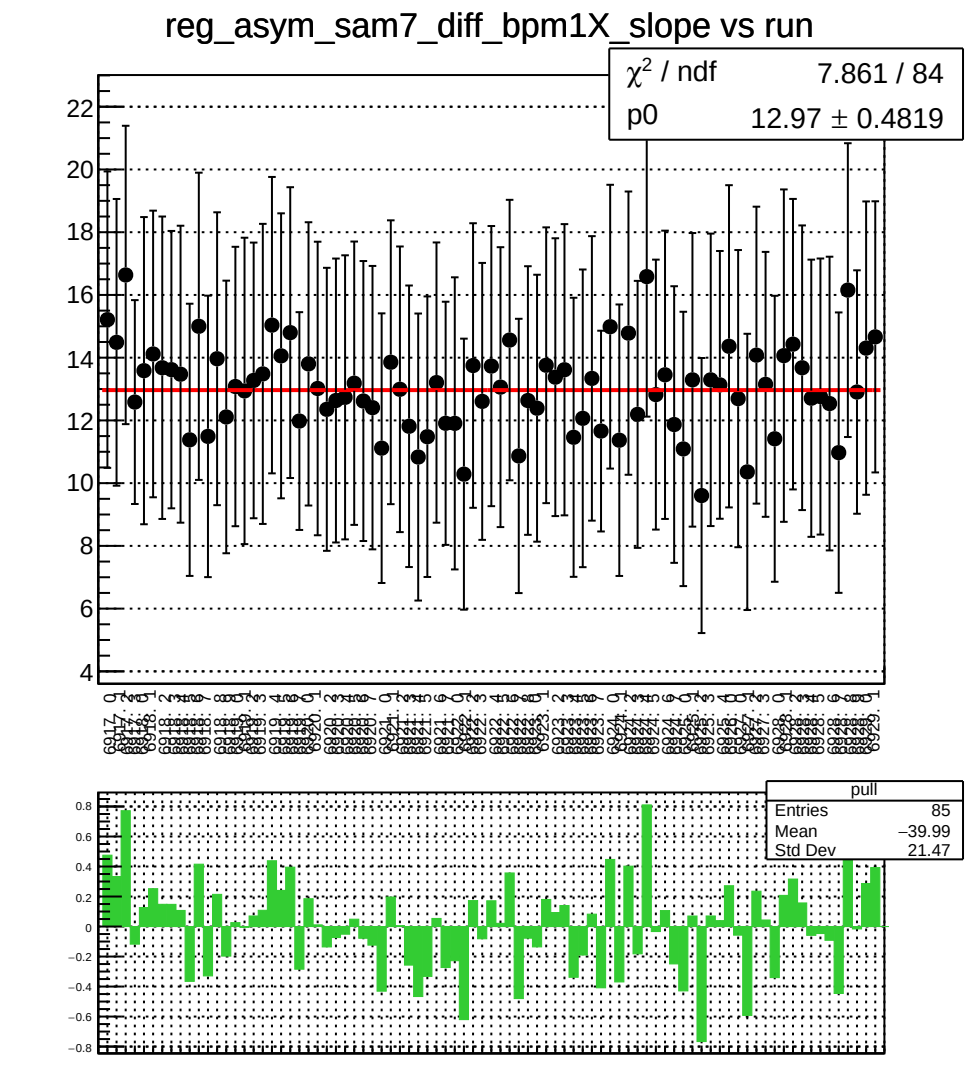

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 5.069 / 84
p0 52.45 ± 1.071
pull
Entries 85
Mean −468
Std Dev 512.2
pull1D
Entries 85
Mean 0.003613
Std Dev 0.2442

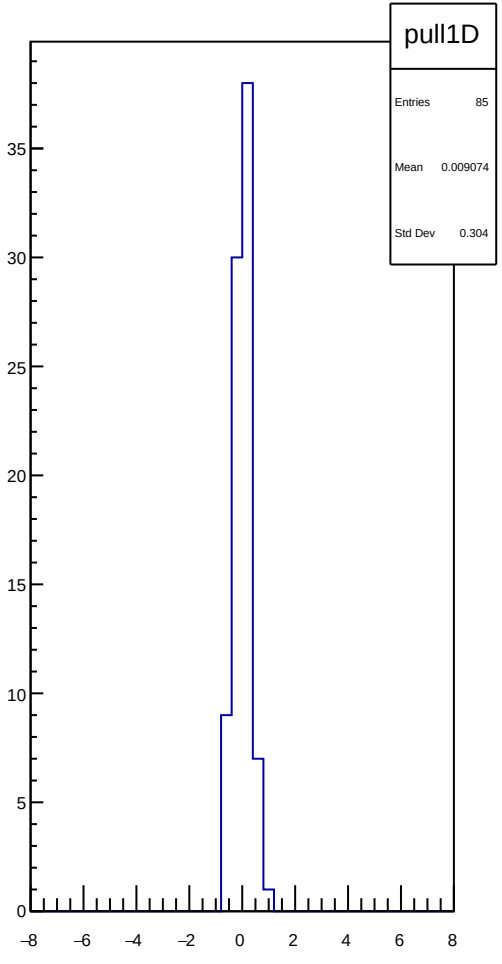

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 15.1 / 84
p0 65.5 ± 0.9023
pull
Entries 85
Mean −180.2
Std Dev 214.1

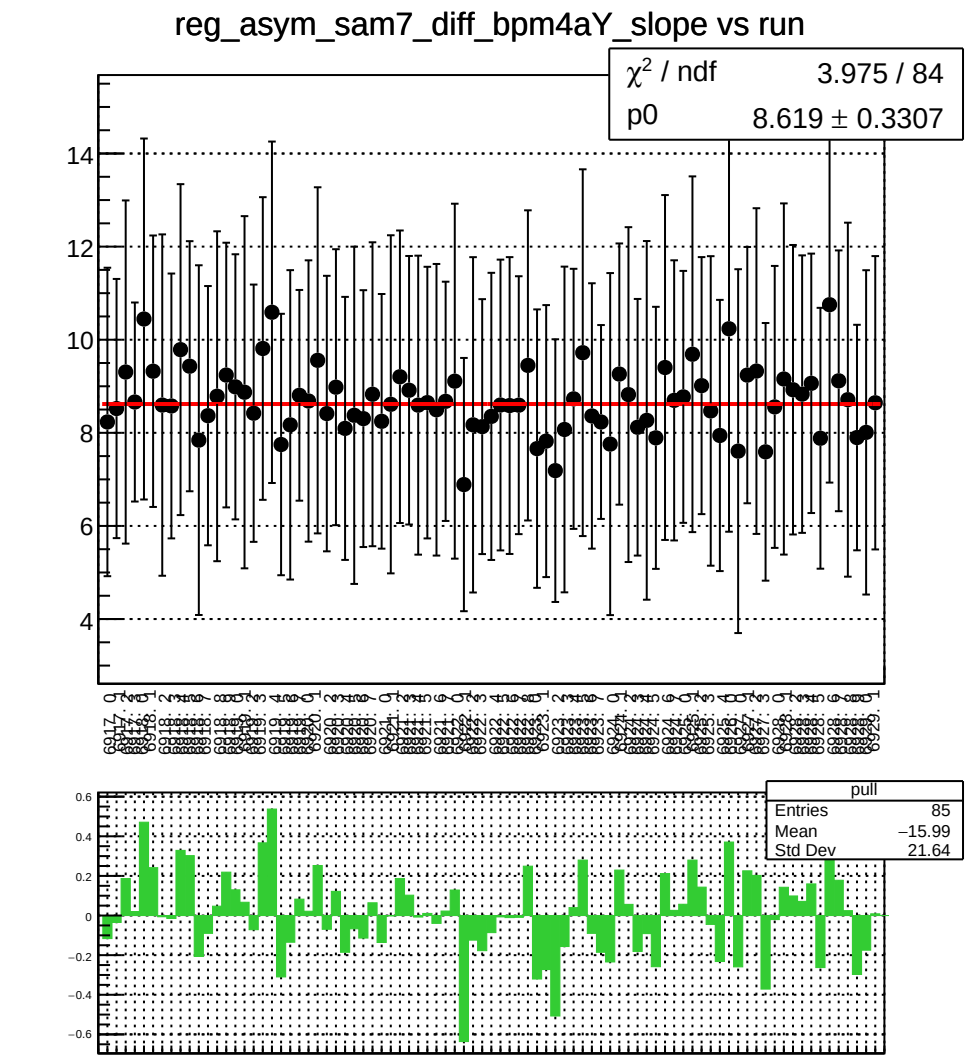

pull1D
Entries 85
Mean −0.02179
Std Dev 0.4209

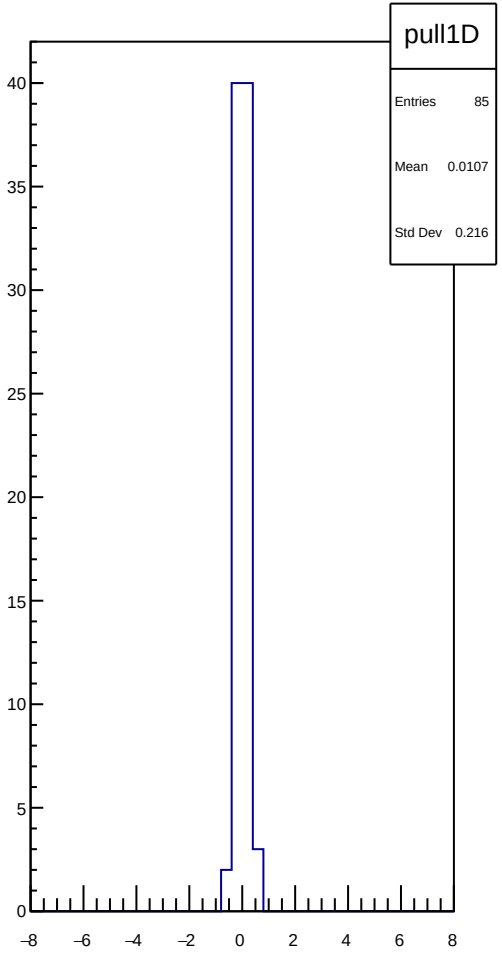

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 20.13 / 84
p0 −0.5812 ± 0.03831
pull
Entries 85
Mean −2649
Std Dev 2687

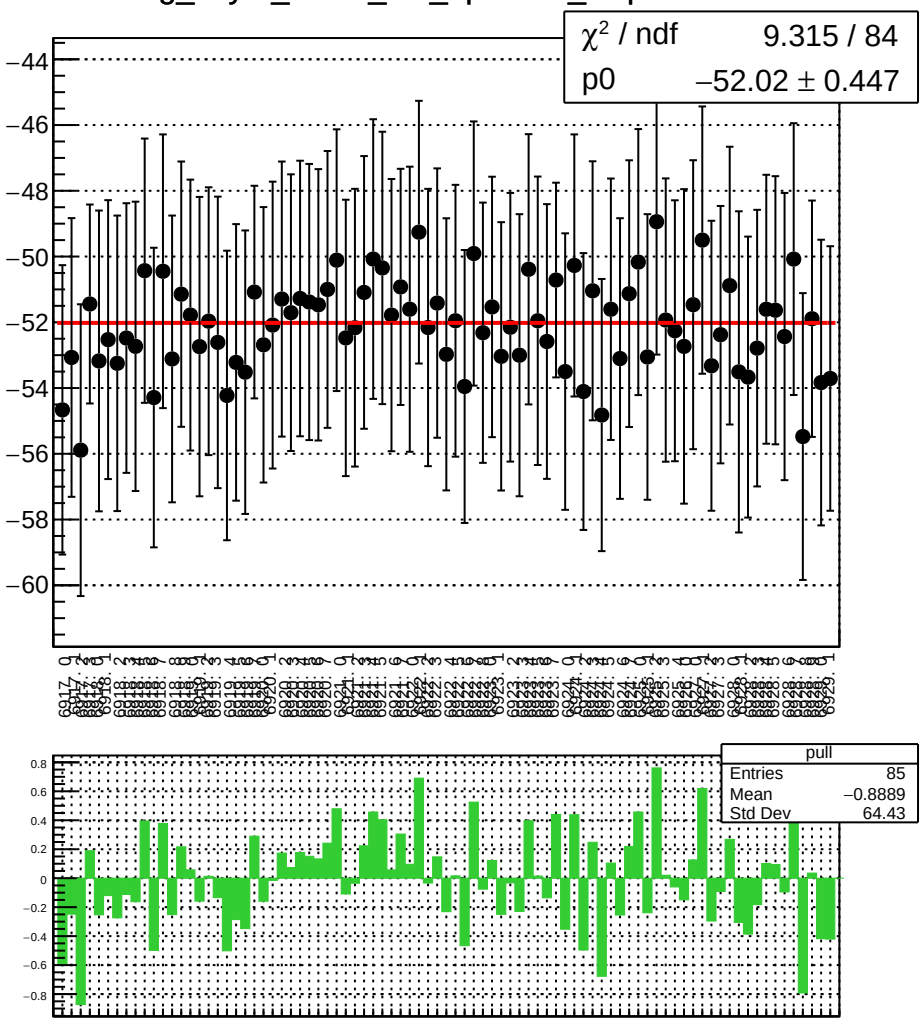

pull1D
Entries 85
Mean −0.002545
Std Dev 0.4866

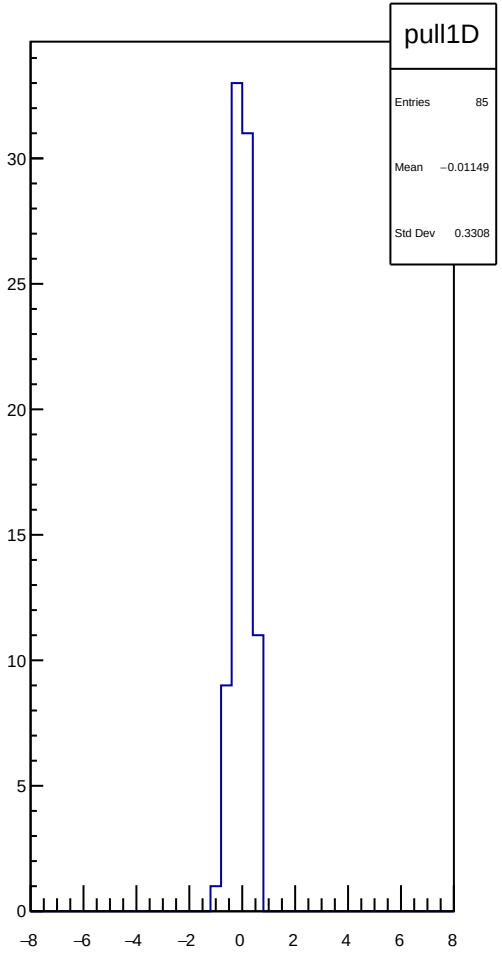

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 7.861 / 84
p0 12.97 ± 0.4819
pull
Entries 85
Mean −39.99
Std Dev 21.47

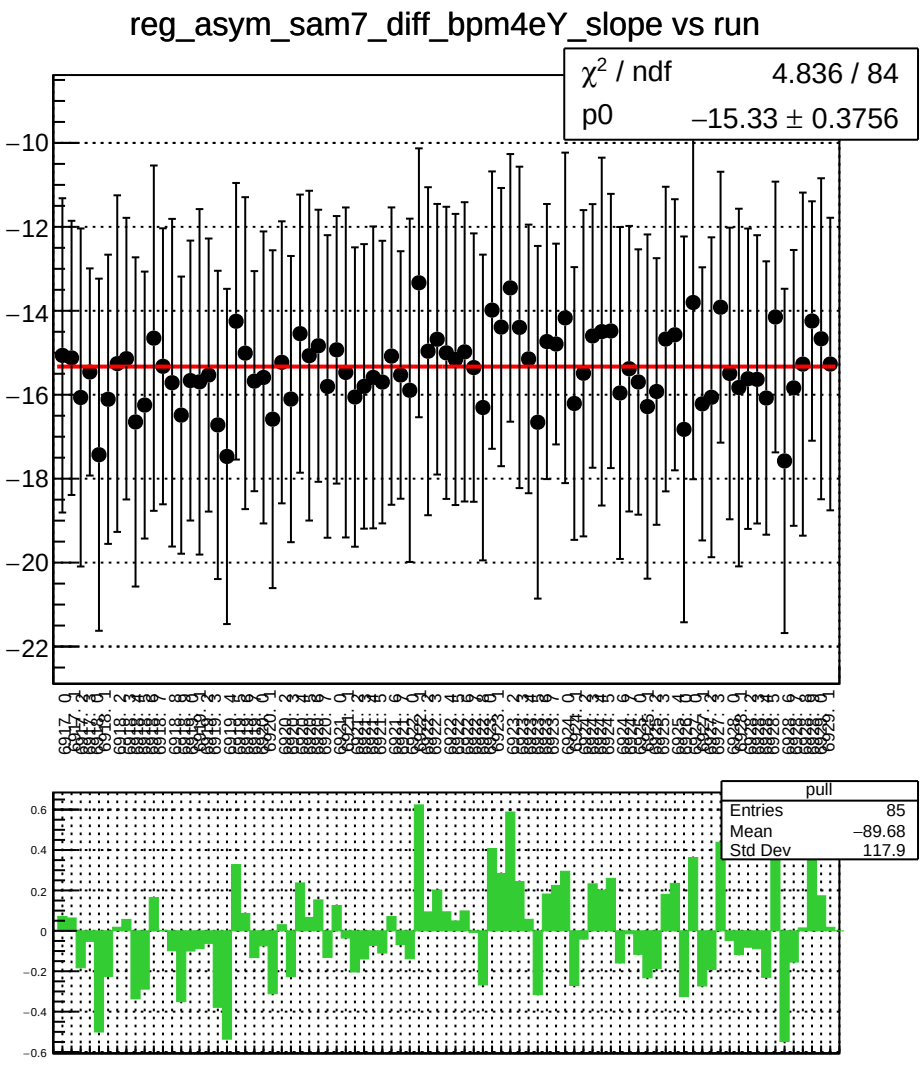

pull1D
Entries 85
Mean 0.009074
Std Dev 0.304

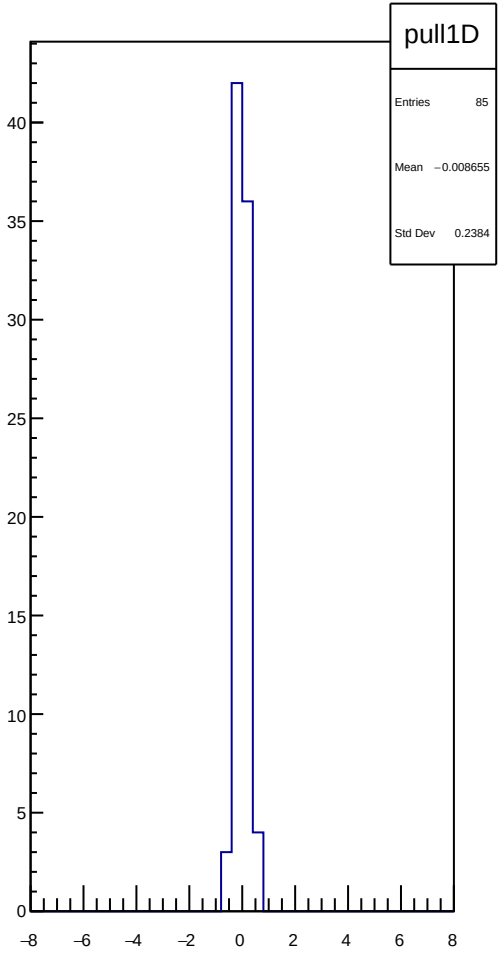

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 3.975 / 84
p0 8.619 ± 0.3307
pull
Entries 85
Mean −15.99
Std Dev 21.64

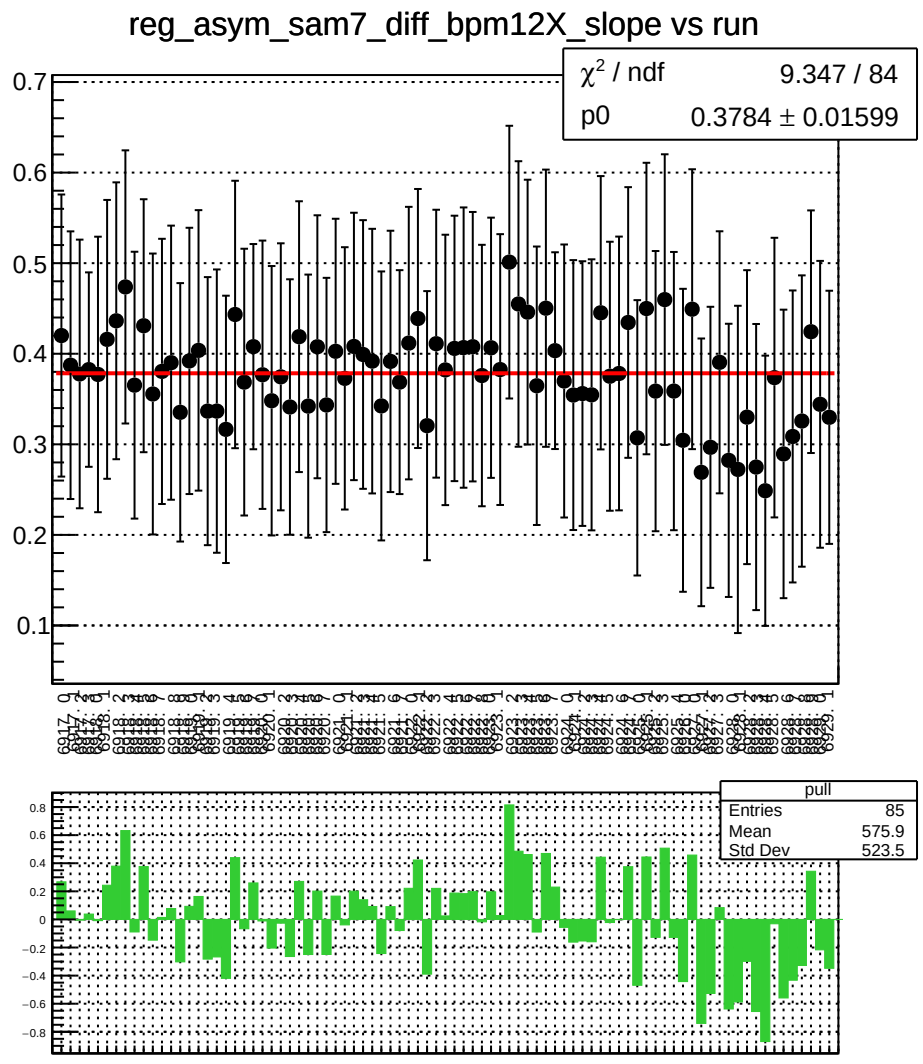

pull1D
Entries 85
Mean 0.0107
Std Dev 0.216

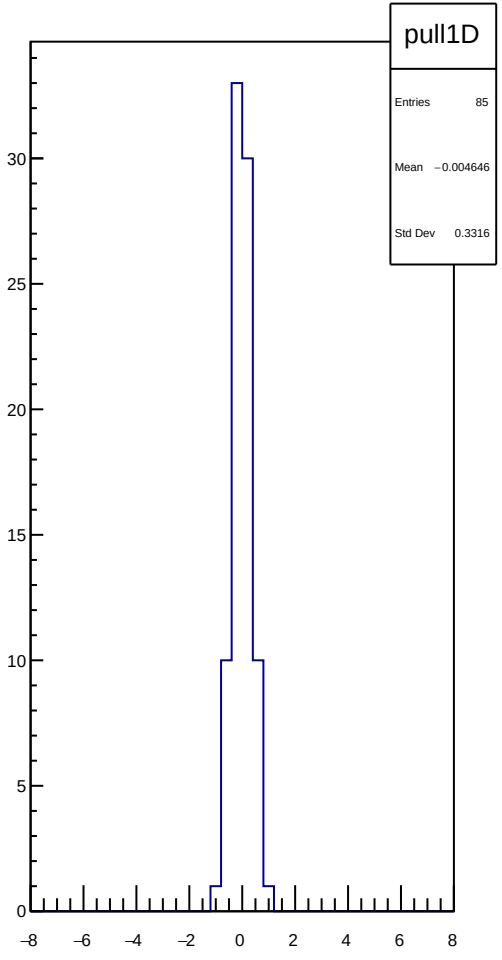

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 9.315 / 84
p0 −52.02 ± 0.447
pull
Entries 85
Mean −0.8889
Std Dev 64.43

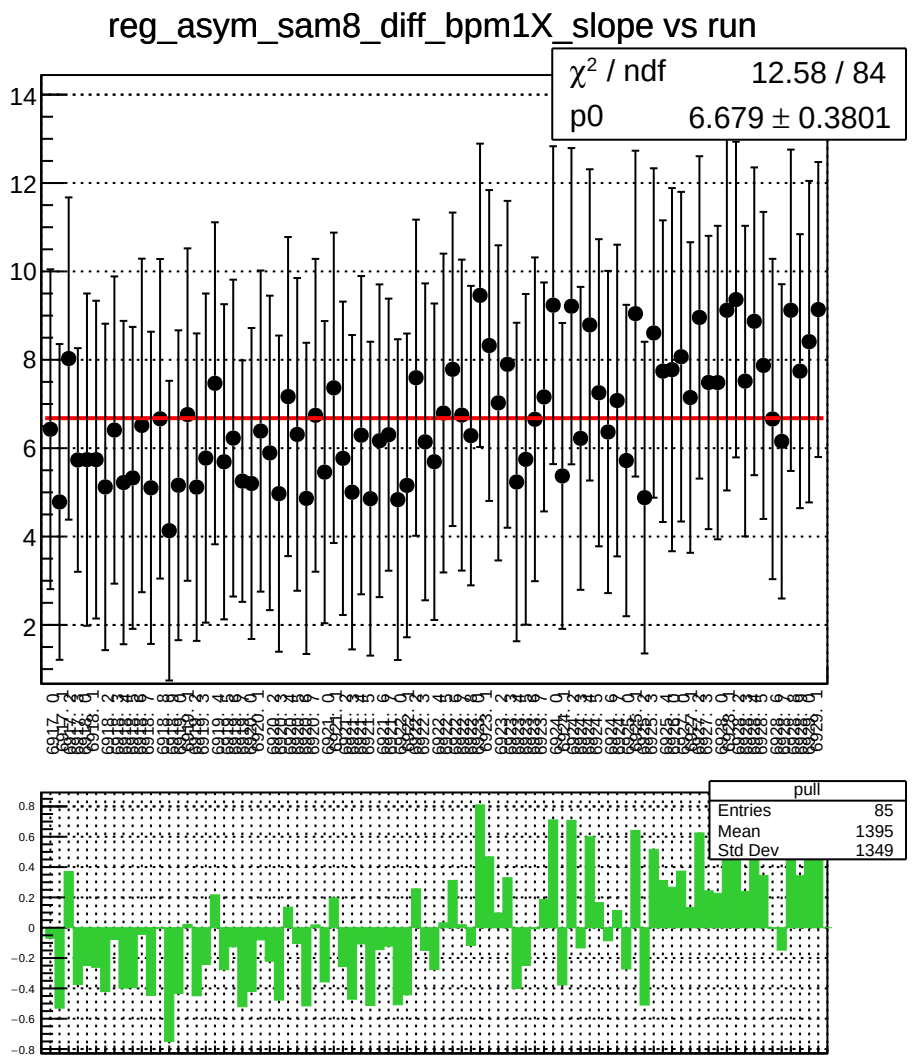

pull1D
Entries 85
Mean −0.01149
Std Dev 0.3308

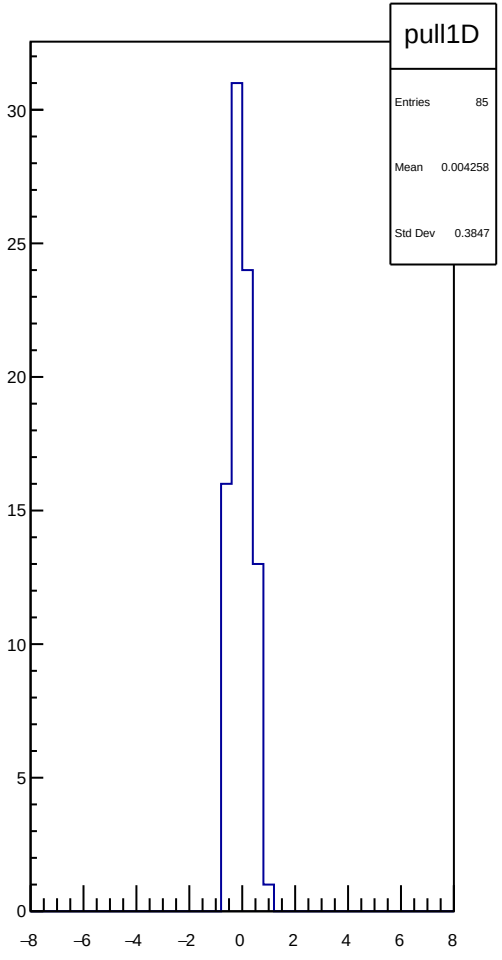

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.836 / 84
p0 −15.33 ± 0.3756
pull
Entries 85
Mean −89.68
Std Dev 117.9

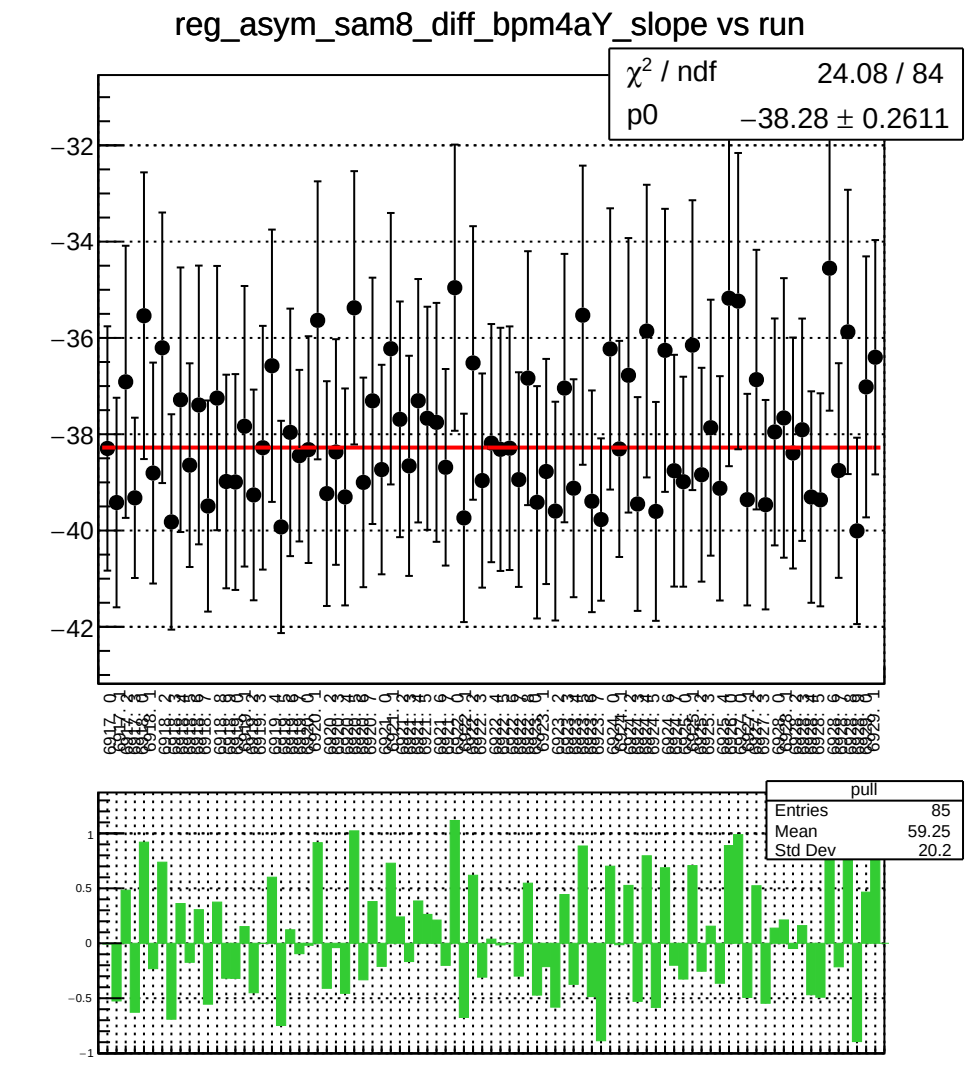

pull1D
Entries 85
Mean −0.008655
Std Dev 0.2384

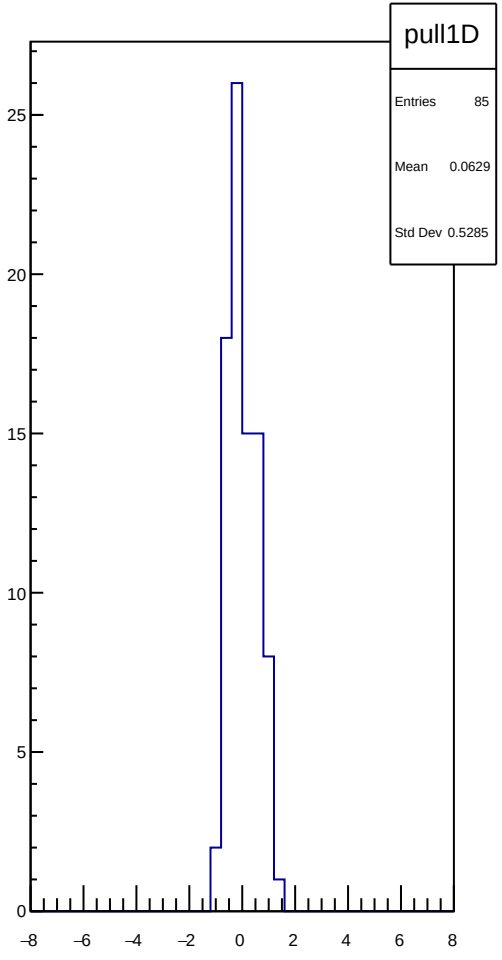

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 9.347 / 84
p0 0.3784 ± 0.01599
pull
Entries 85
Mean 575.9
Std Dev 523.5

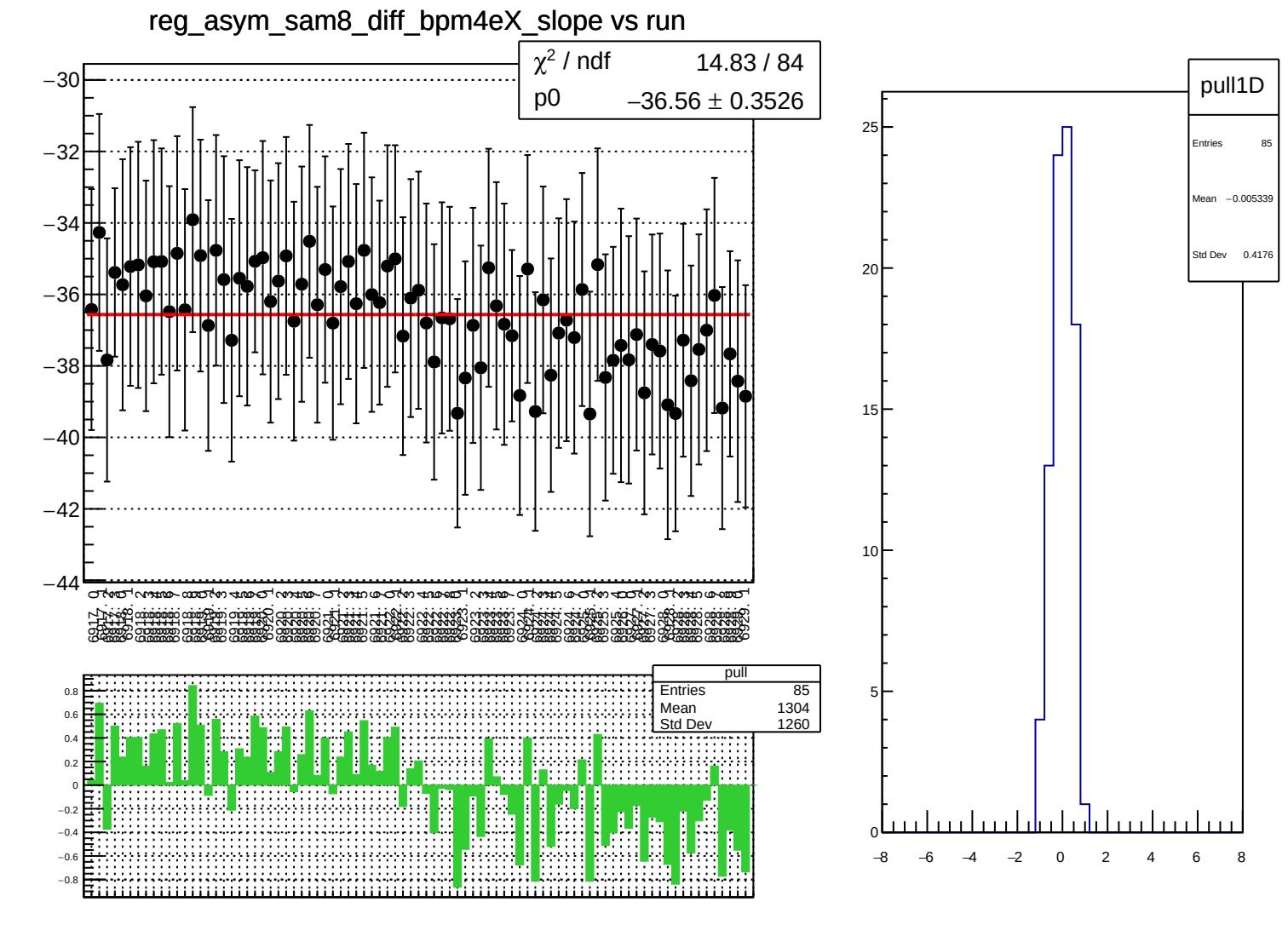

pull1D
Entries 85
Mean −0.004646
Std Dev 0.3316

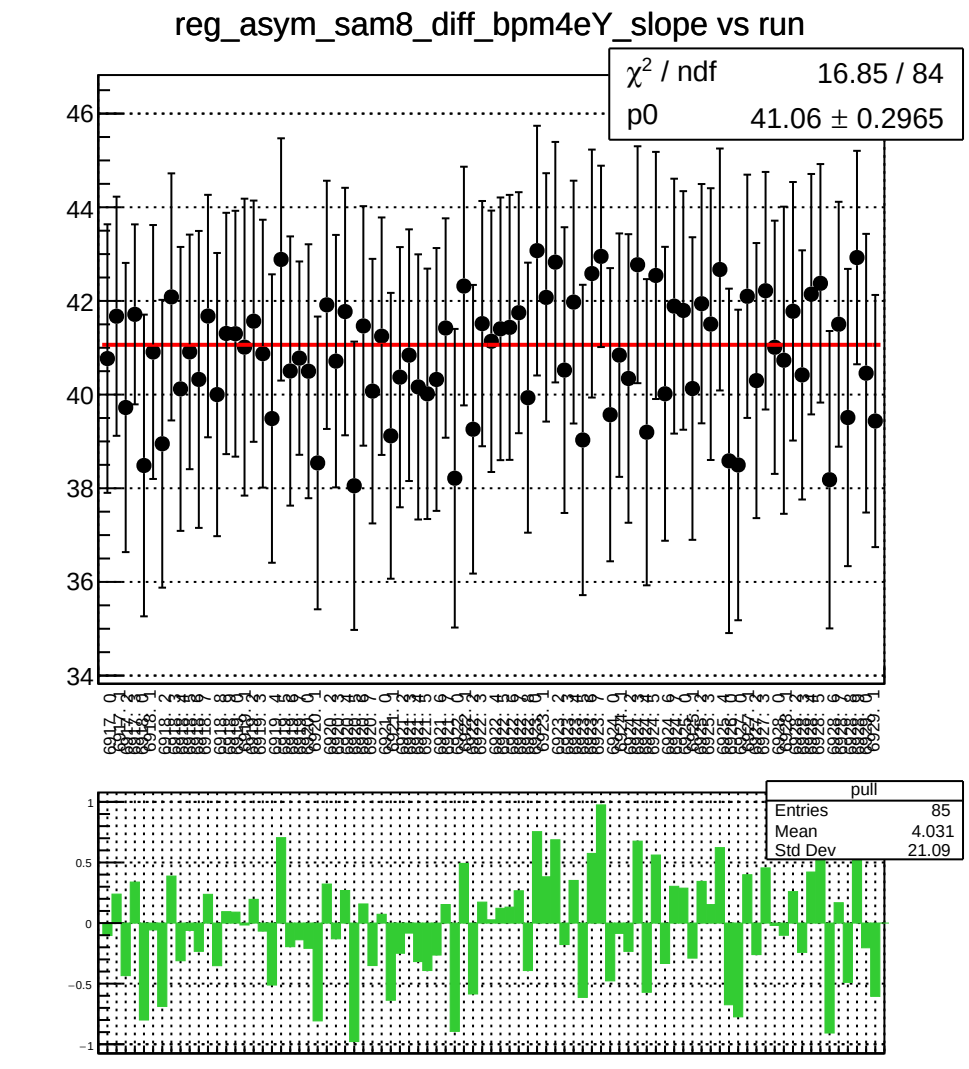

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 12.58 / 84
p0 6.679 ± 0.3801
pull
Entries 85
Mean 1395
Std Dev 1349

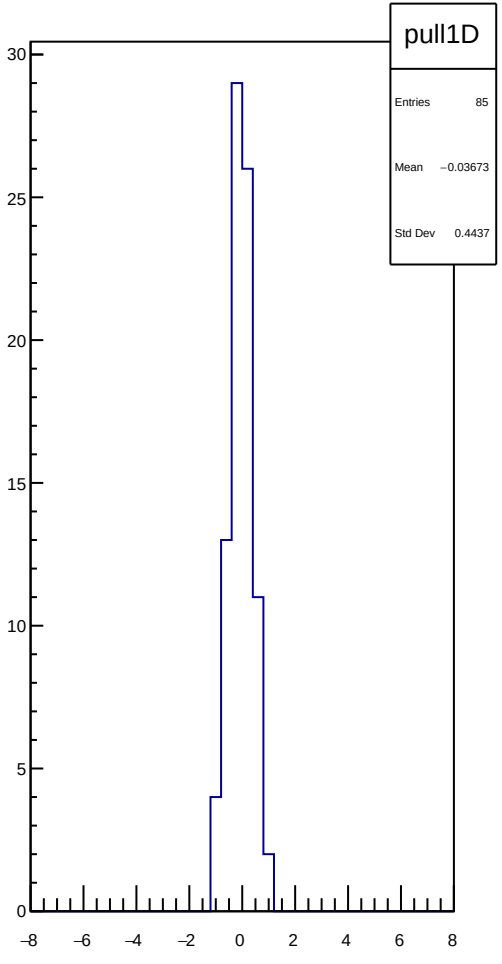

pull1D
Entries 85
Mean 0.004258
Std Dev 0.3847

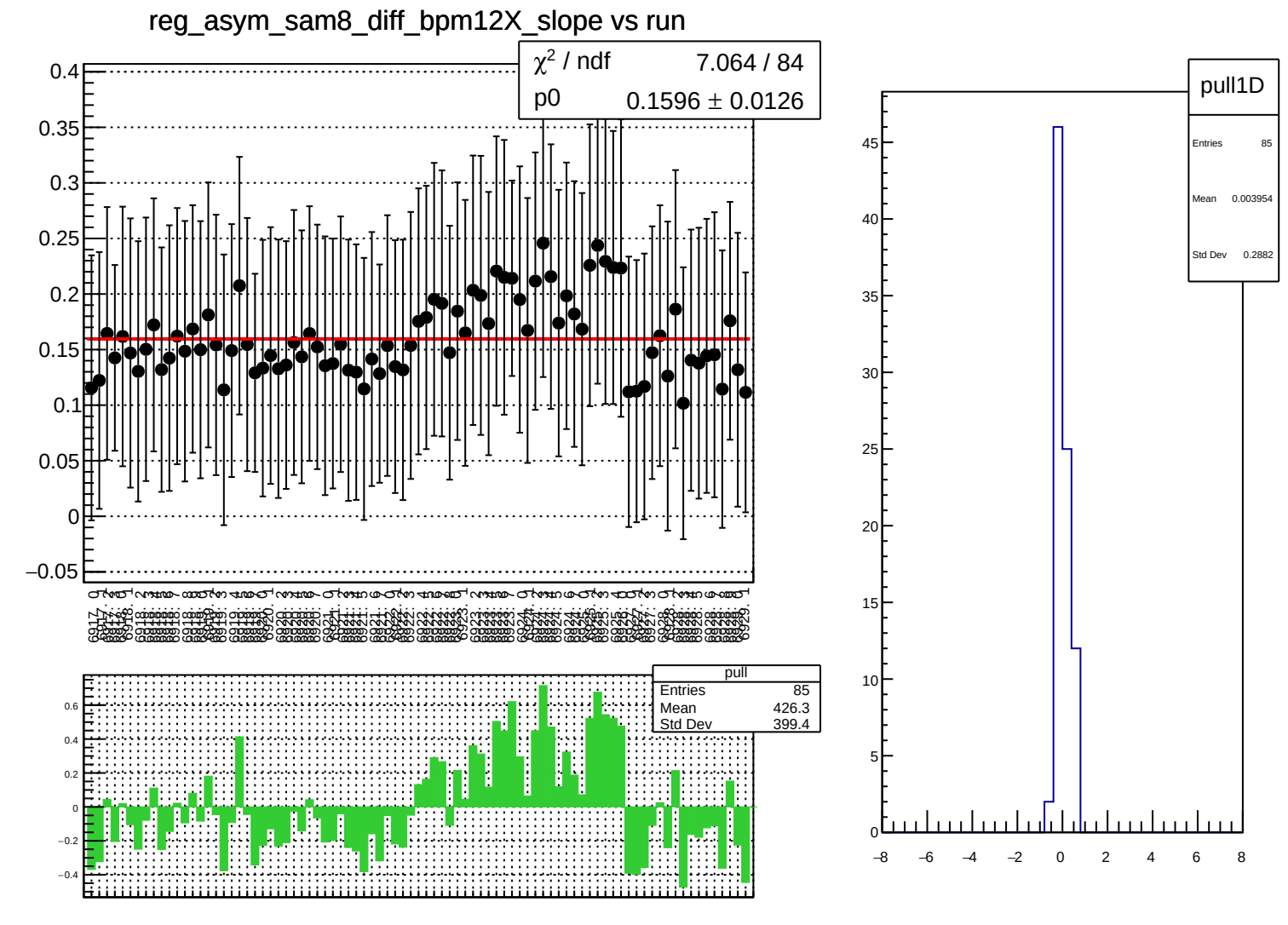

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 24.08 / 84
p0 −38.28 ± 0.2611
pull
Entries 85
Mean 59.25
Std Dev 20.2

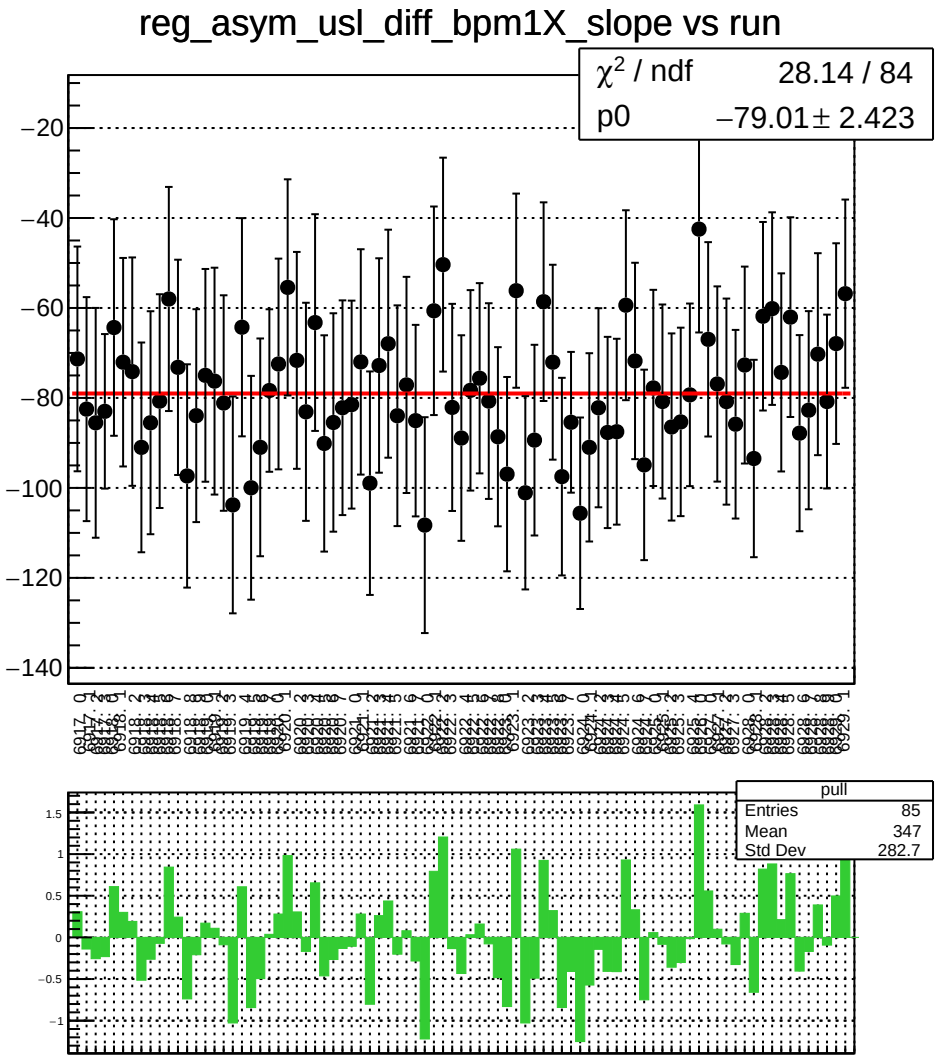

pull1D
Entries 85
Mean 0.0629
Std Dev 0.5285

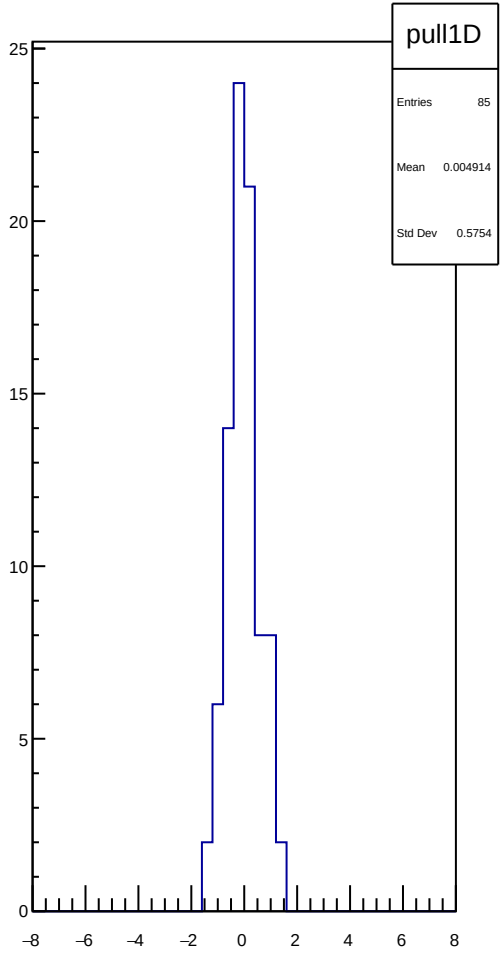

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 14.83 / 84
p0 −36.56 ± 0.3526
pull
Entries 85
Mean 1304
Std Dev 1260
pull1D
Entries 85
Mean −0.005339
Std Dev 0.4176

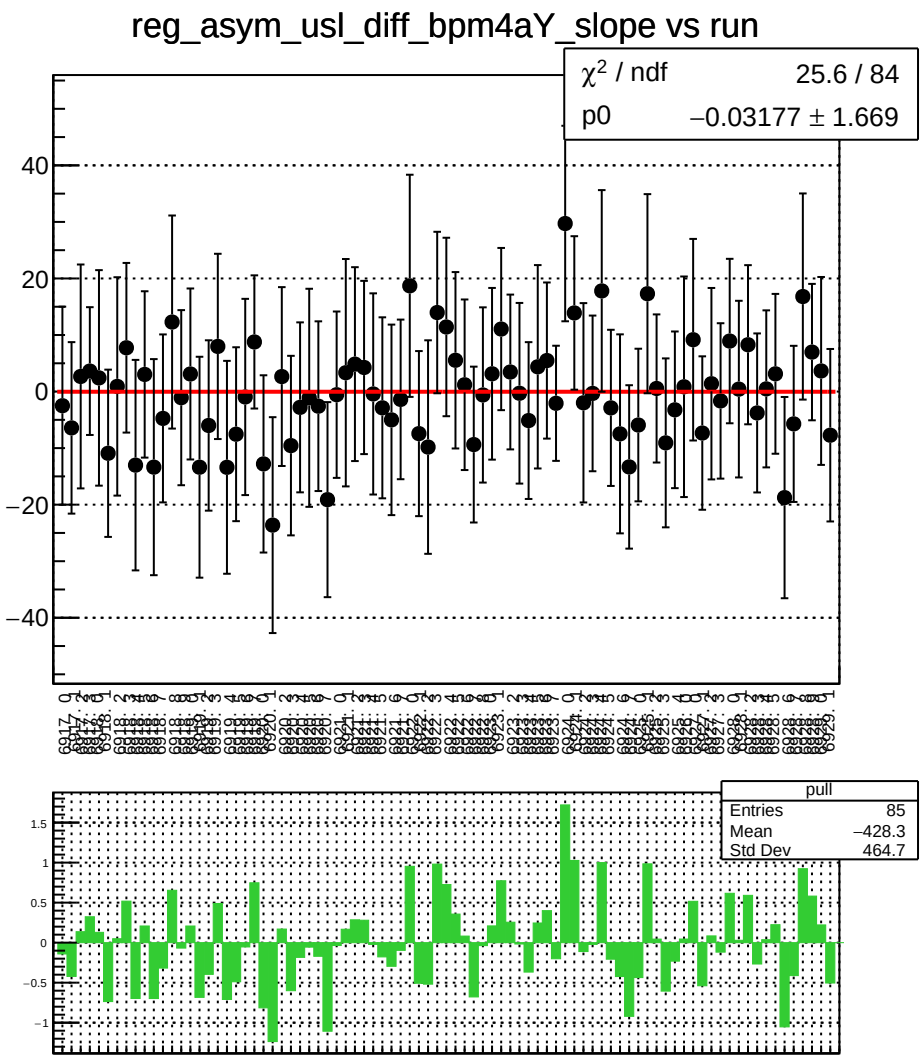

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 16.85 / 84
p0 41.06 ± 0.2965
pull
Entries 85
Mean 4.031
Std Dev 21.09

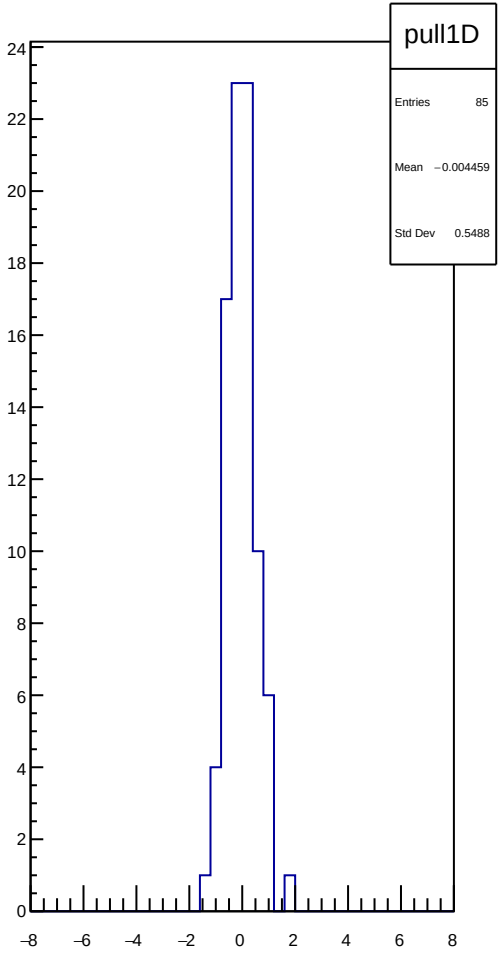

pull1D
Entries 85
Mean −0.03673
Std Dev 0.4437

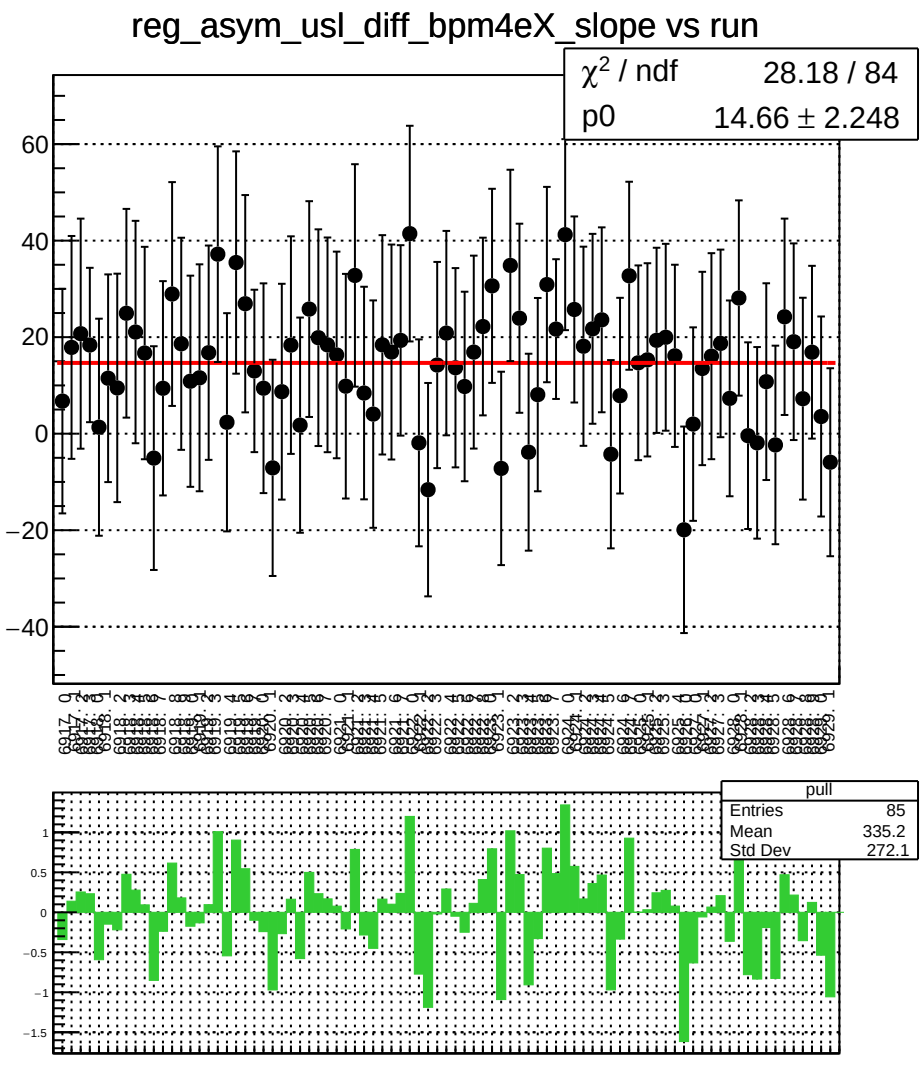

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 7.064 / 84
p0 0.1596 ± 0.0126
pull
Entries 85
Mean 426.3
Std Dev 399.4
pull1D
Entries 85
Mean 0.003954
Std Dev 0.2882

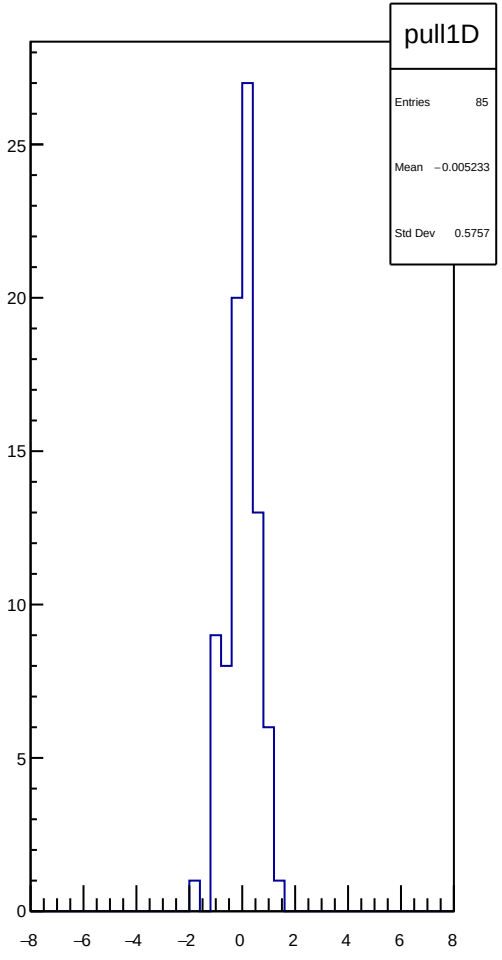

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 28.14 / 84
p0 −79.01± 2.423
pull
Entries 85
Mean 347
Std Dev 282.7

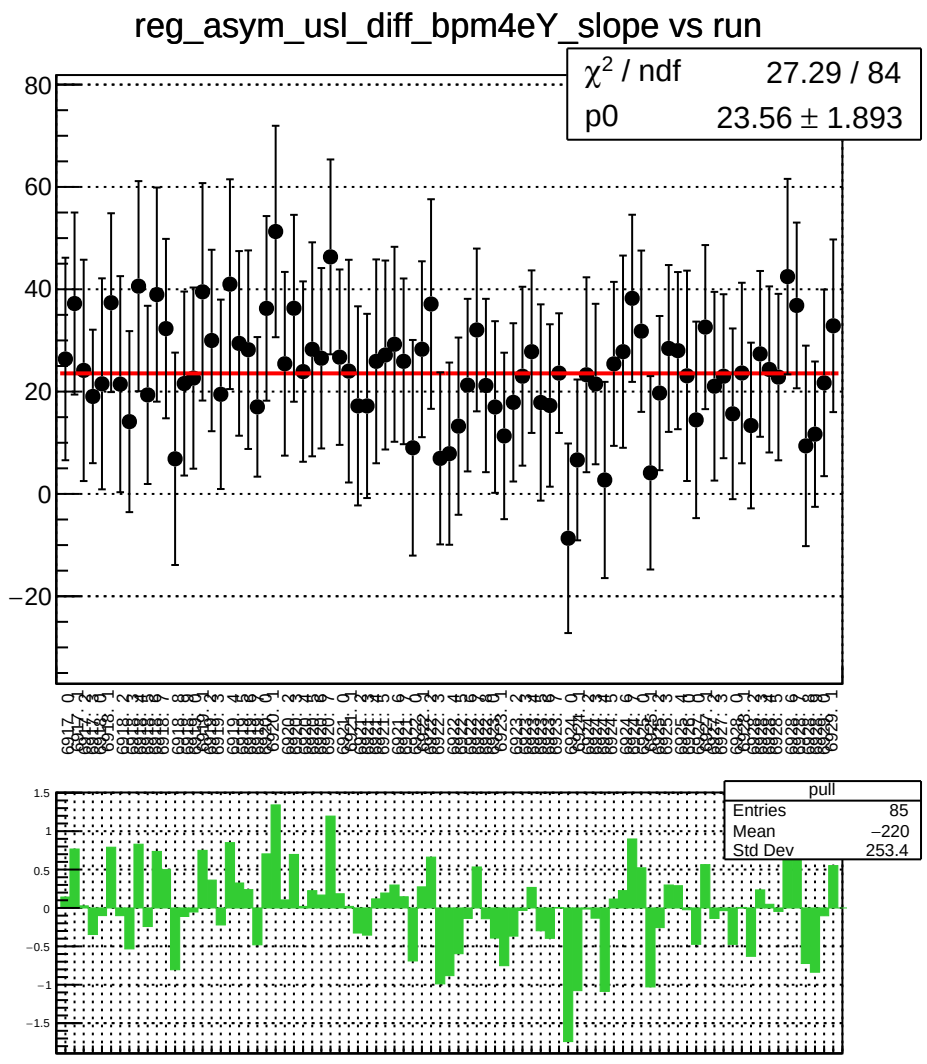

pull1D
Entries 85
Mean 0.004914
Std Dev 0.5754

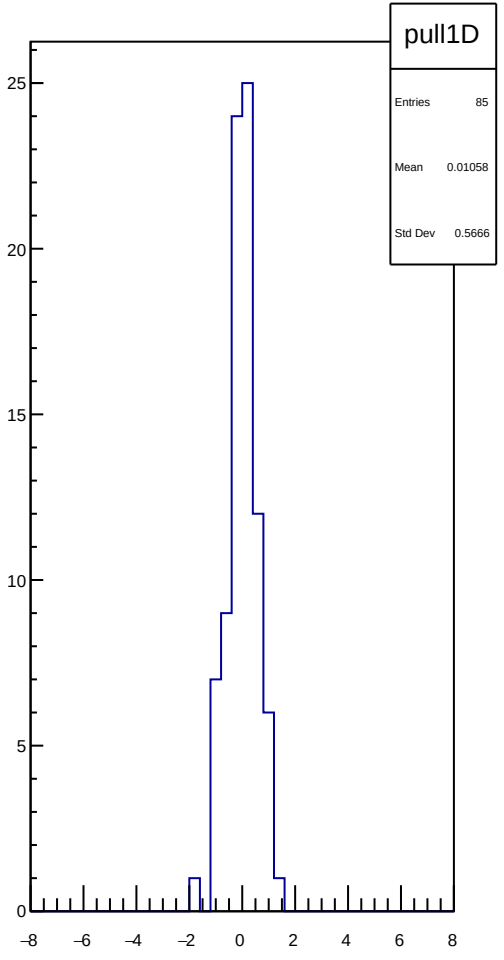

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 25.6 / 84
p0 −0.03177 ± 1.669
40
20
0
−20
−40
pull
Entries 85
Mean −428.3
Std Dev 464.7
1.5
1
0.5
0
−0.5
−1

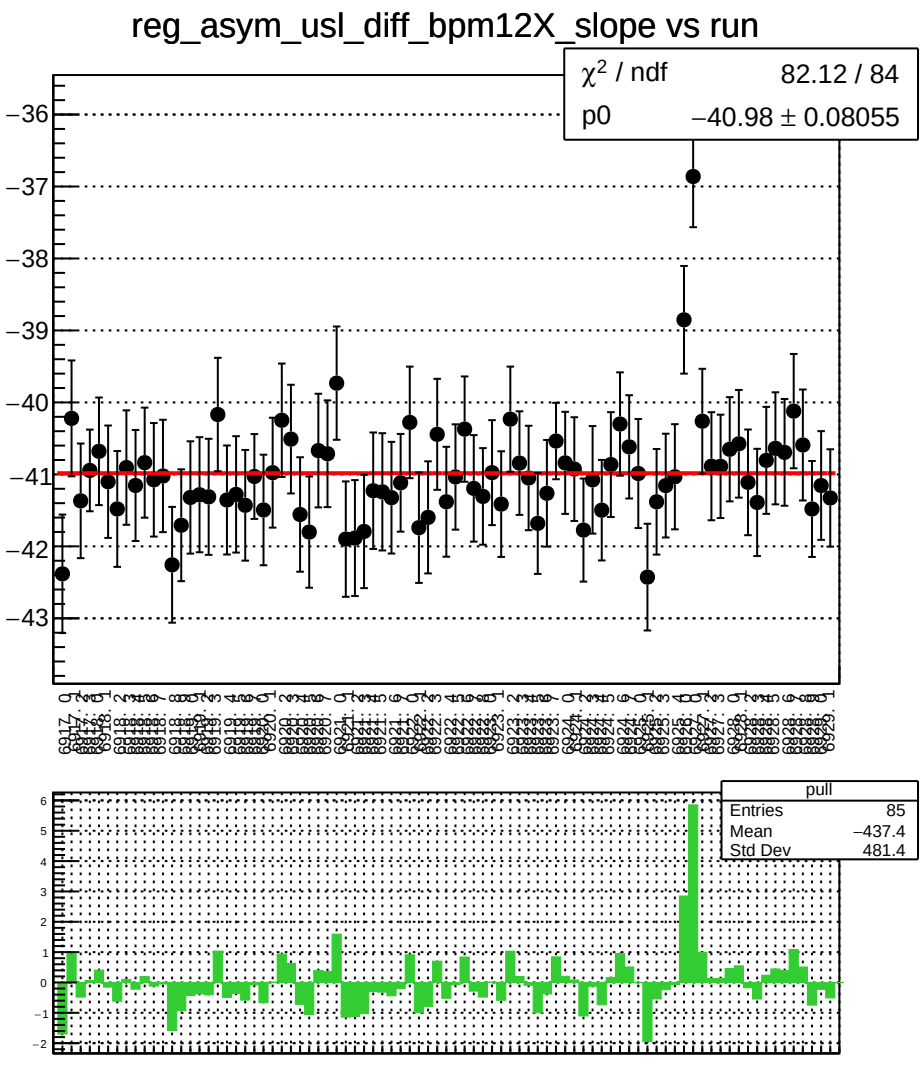

pull1D
Entries 85
Mean −0.004459
Std Dev 0.5488
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

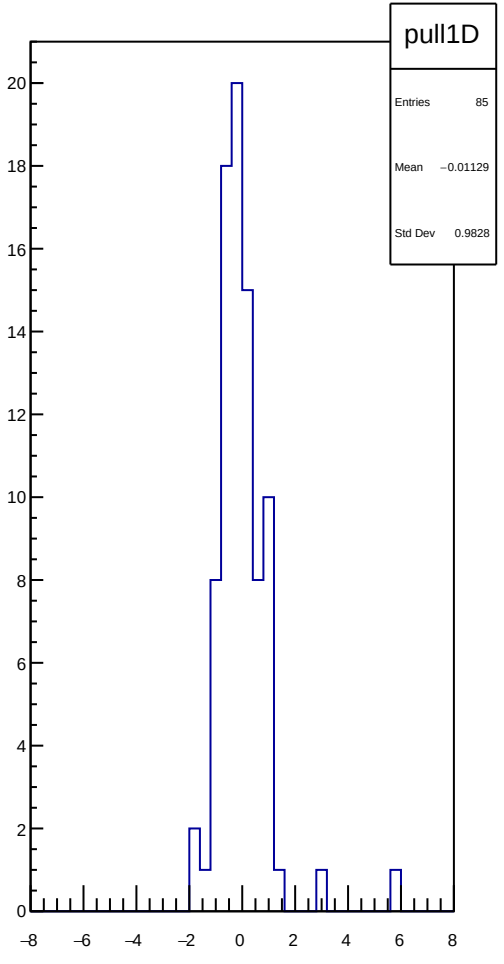

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 28.18 / 84
p0 14.66 ± 2.248
pull
Entries 85
Mean 335.2
Std Dev 272.1

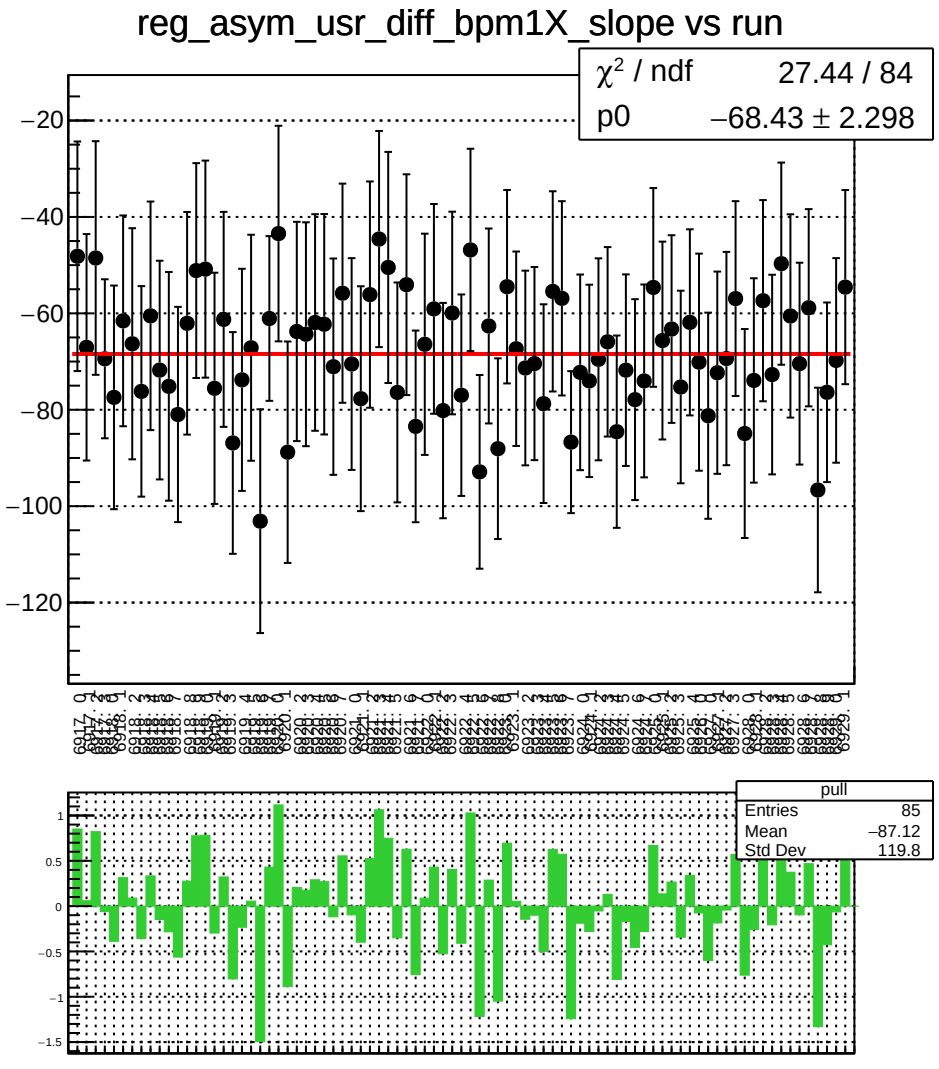

pull1D
Entries 85
Mean −0.005233
Std Dev 0.5757

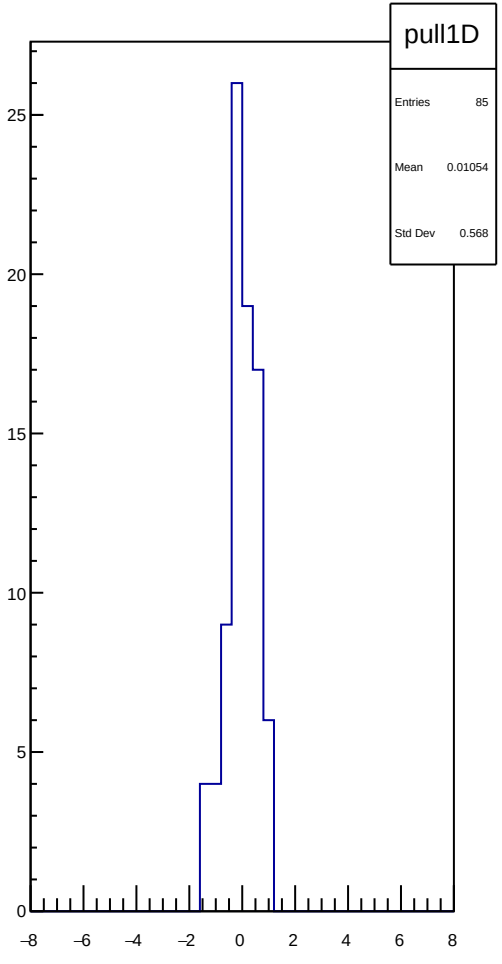

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 27.29 / 84
p0 23.56 ± 1.893
pull
Entries 85
Mean −220
Std Dev 253.4

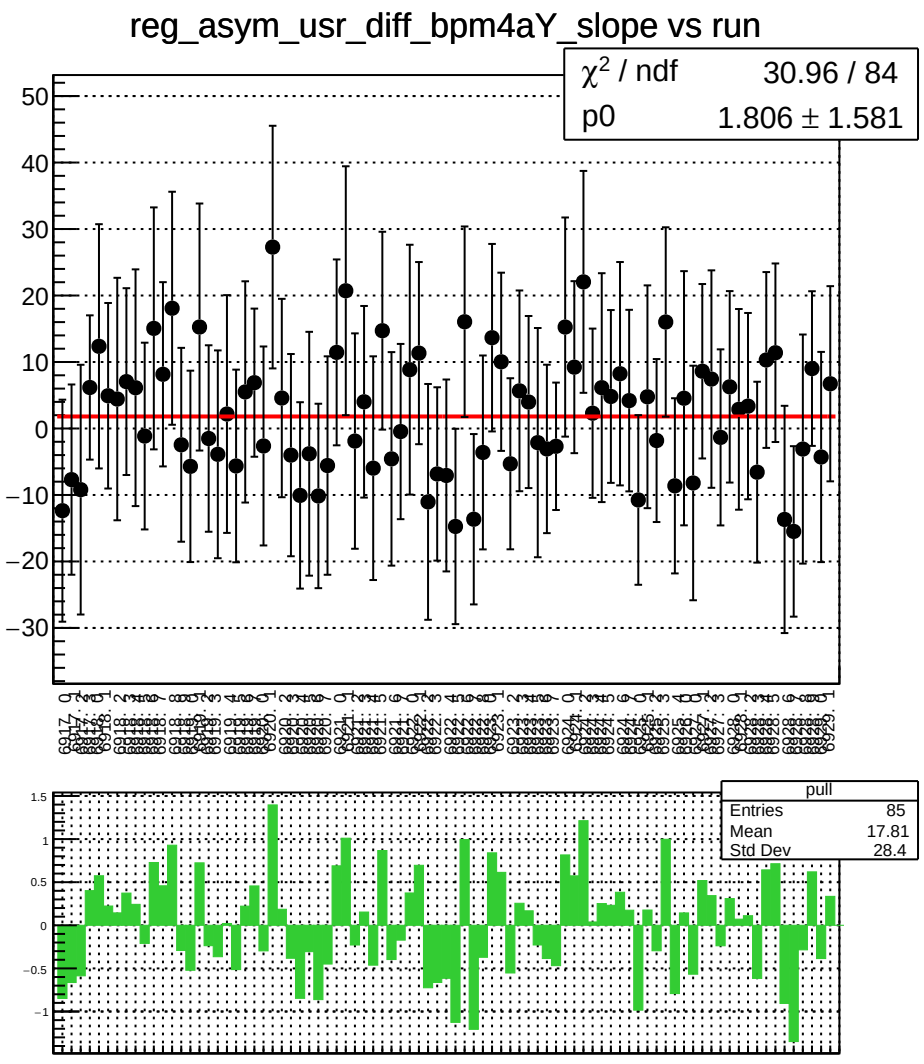

pull1D
Entries 85
Mean 0.01058
Std Dev 0.5666

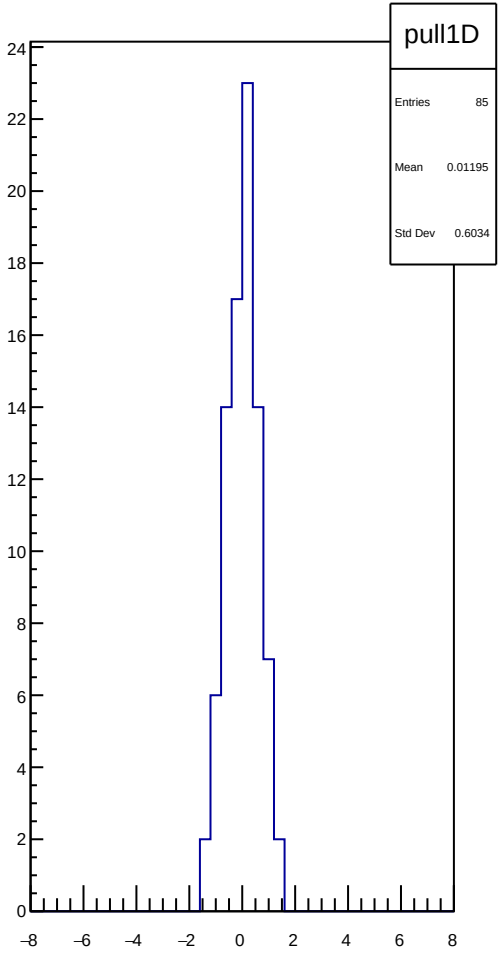

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 82.12 / 84
p0 −40.98 ± 0.08055
pull
Entries 85
Mean −437.4
Std Dev 481.4

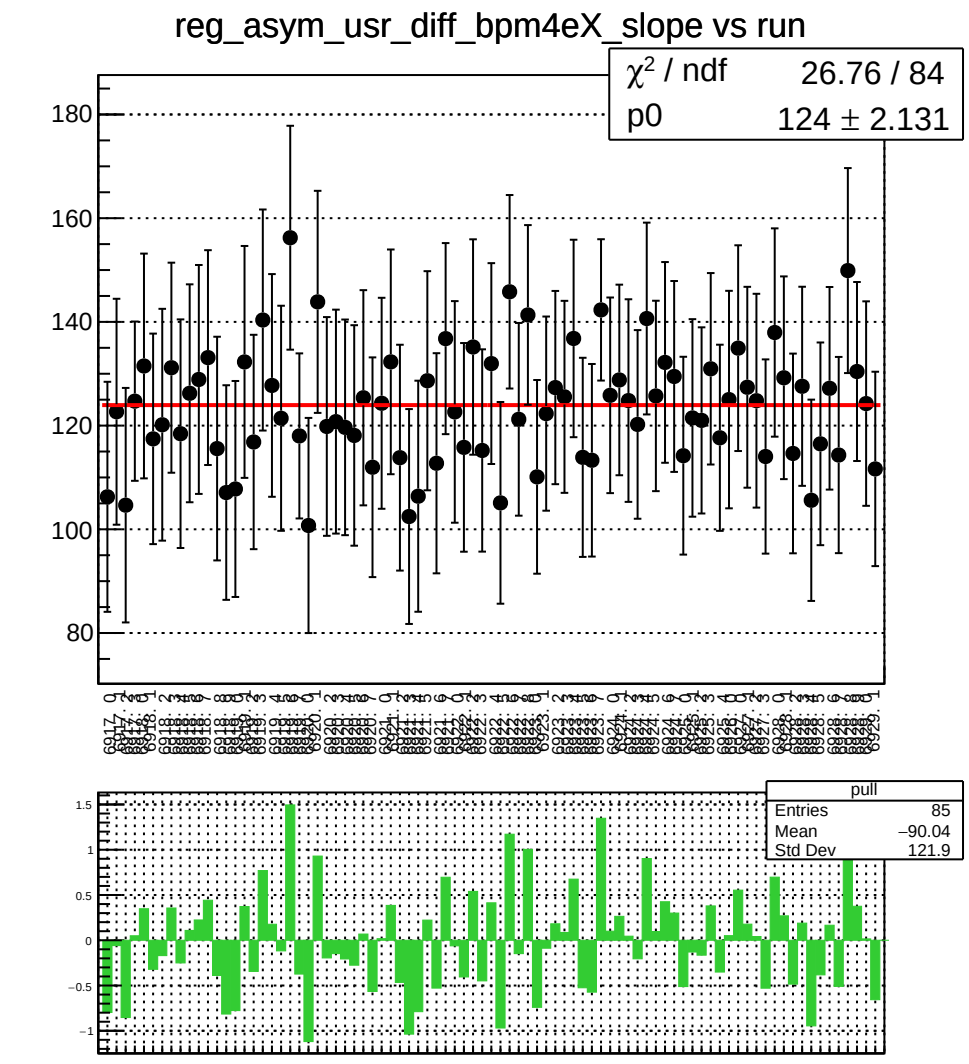

pull1D
Entries 85
Mean −0.01129
Std Dev 0.9828

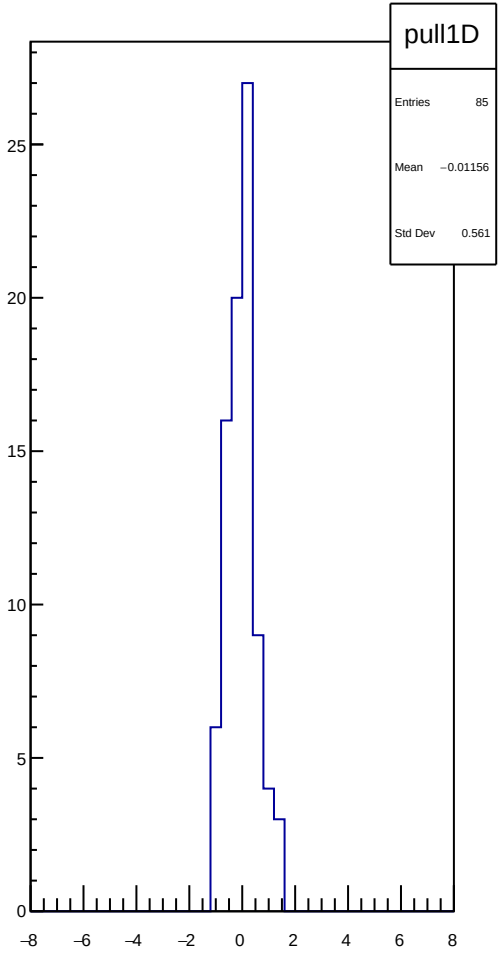

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 27.44 / 84
p0 −68.43 ± 2.298
pull
Entries 85
Mean −87.12
Std Dev 119.8

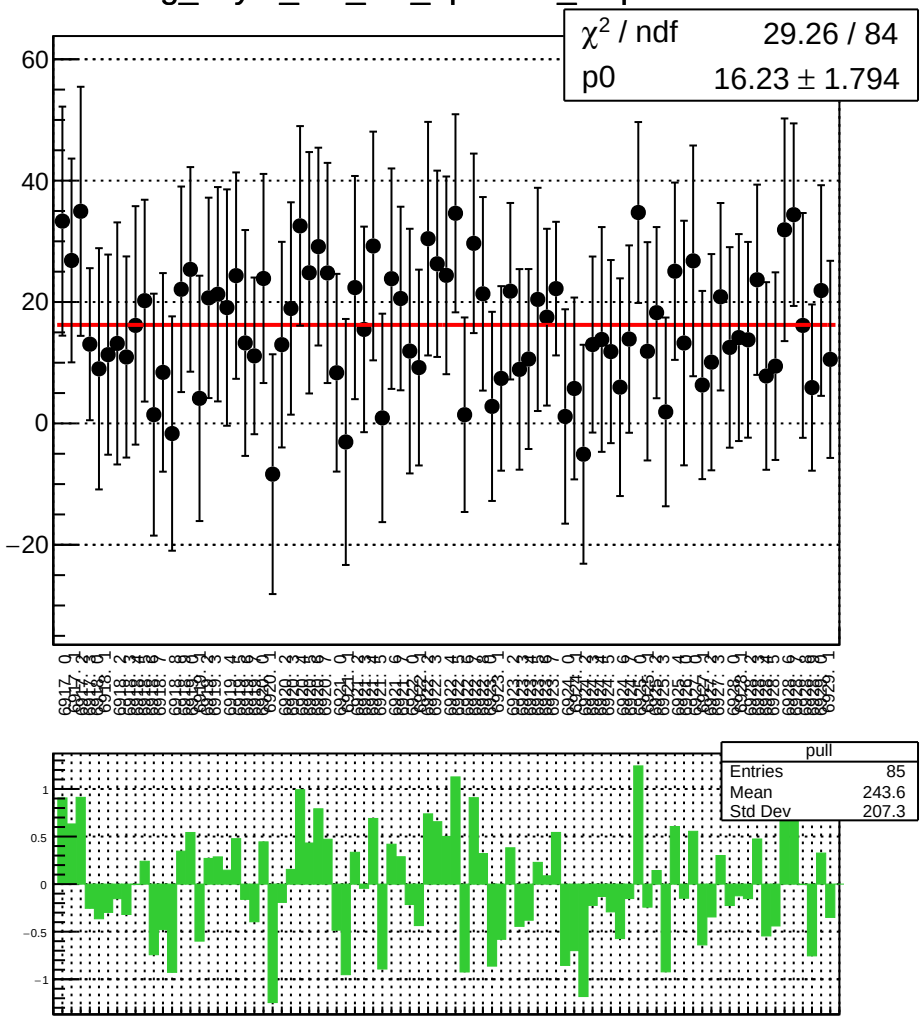

pull1D
Entries 85
Mean 0.01054
Std Dev 0.568

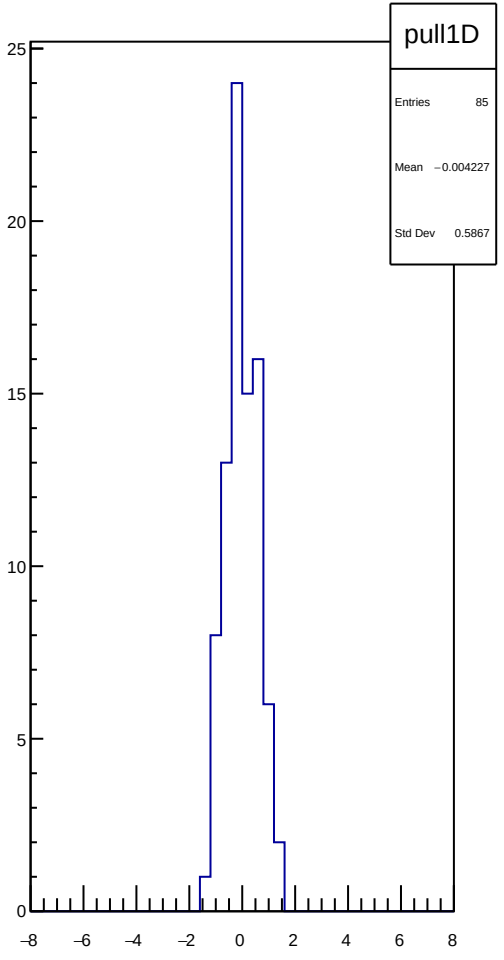

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 30.96 / 84
p0 1.806 ± 1.581
pull
Entries 85
Mean 17.81
Std Dev 28.4

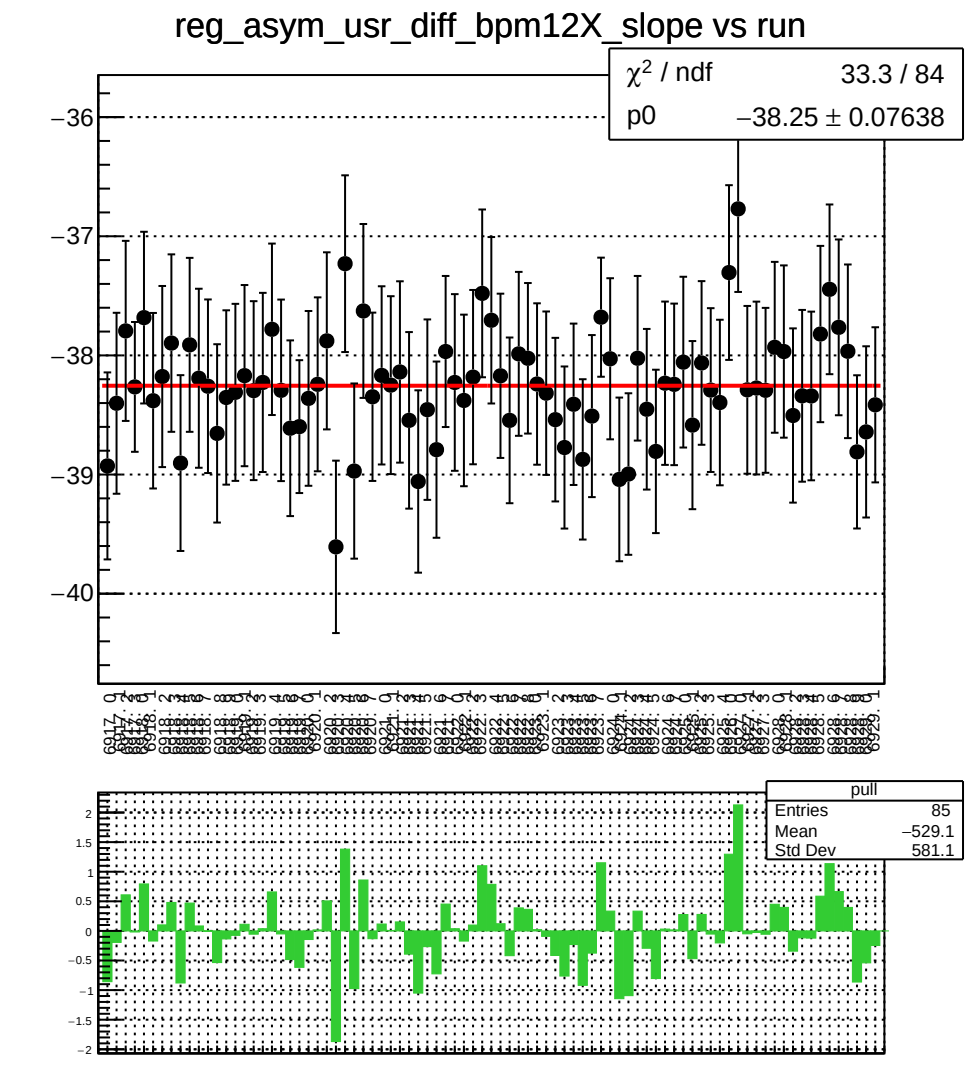

pull1D
Entries 85
Mean 0.01195
Std Dev 0.6034

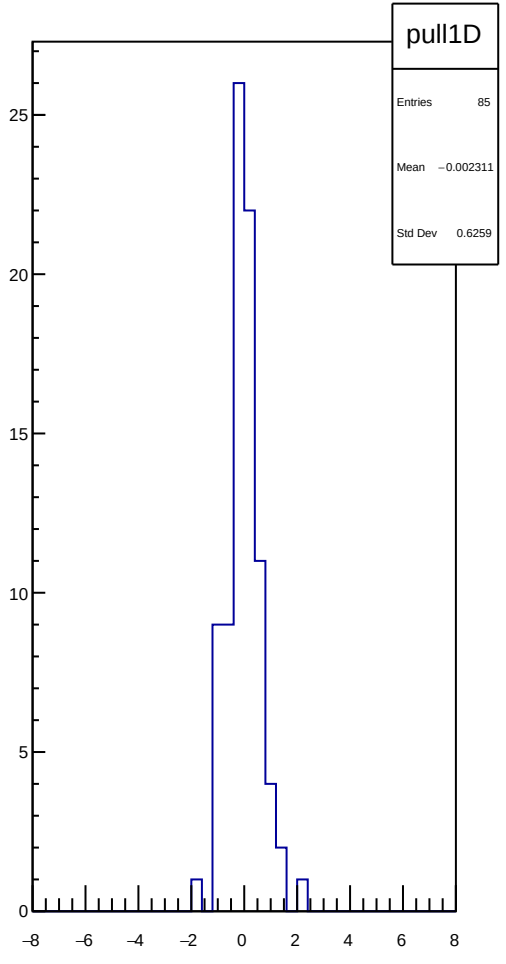

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 26.76 / 84
p0 124 ± 2.131
pull
Entries 85
Mean −90.04
Std Dev 121.9

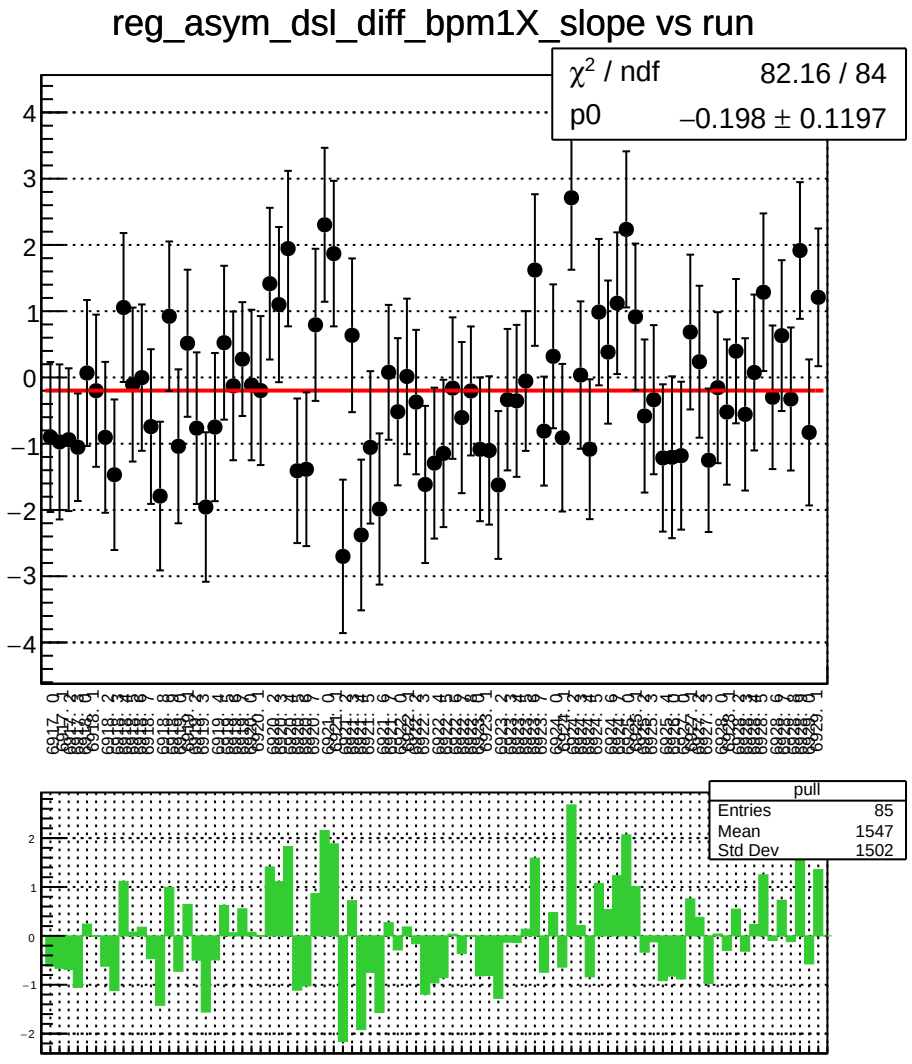

pull1D
Entries 85
Mean −0.01156
Std Dev 0.561

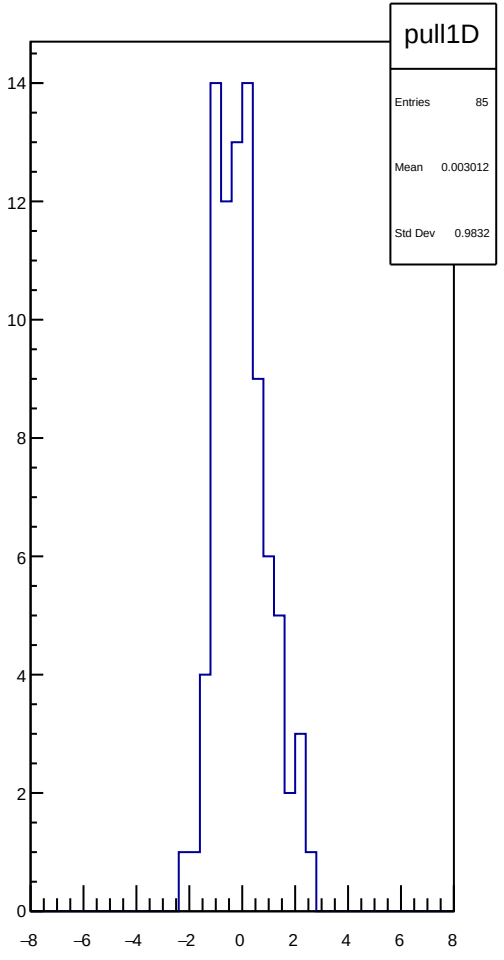

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 29.26 / 84
p0 16.23 ± 1.794
pull
Entries 85
Mean 243.6
Std Dev 207.3

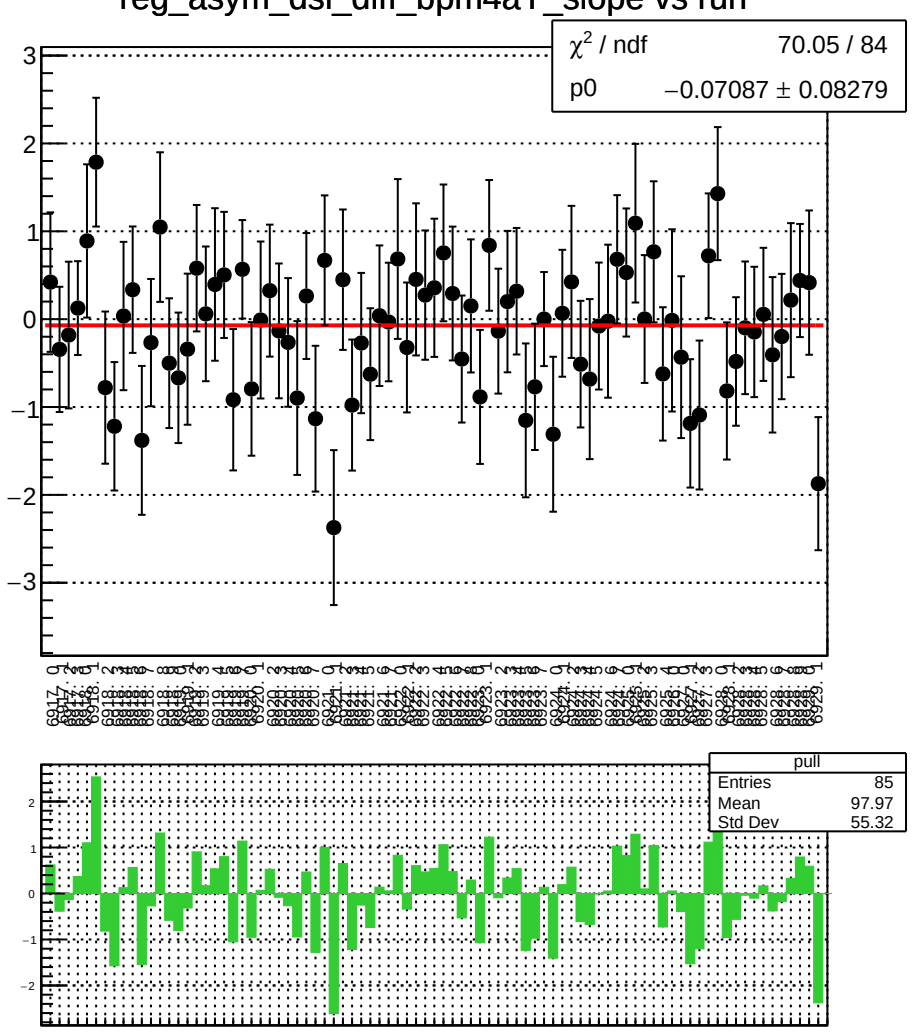

pull1D
Entries 85
Mean −0.004227
Std Dev 0.5867

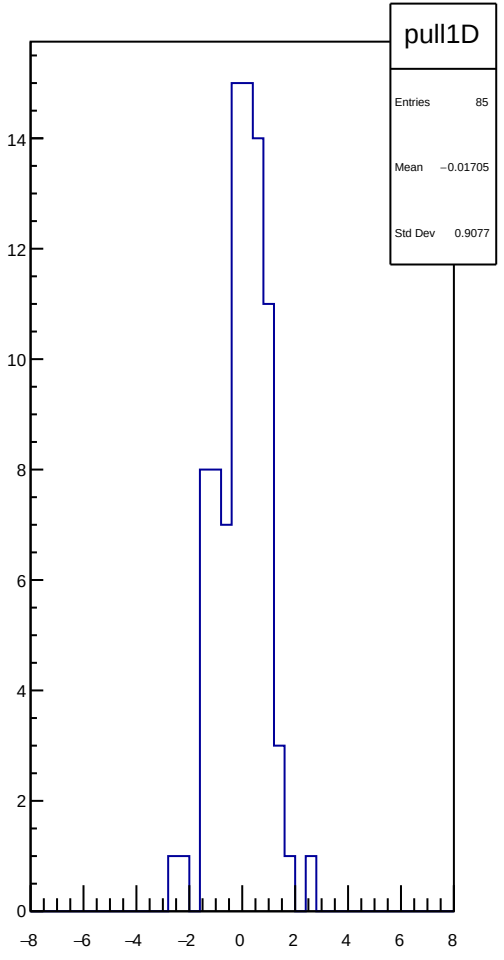

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 33.3 / 84
p0 −38.25 ± 0.07638
−36
−37
−38
−39
−40
pull
Entries 85
Mean −529.1
Std Dev 581.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

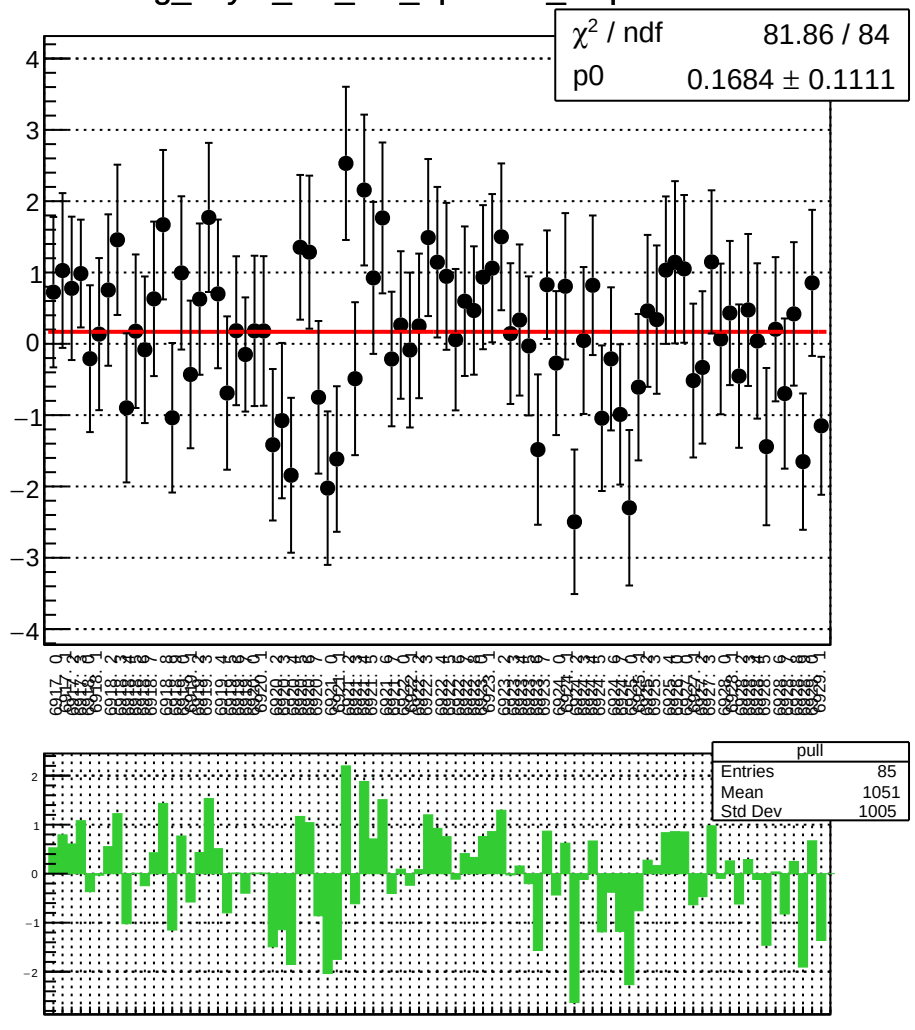

pull1D
Entries 85
Mean −0.002311
Std Dev 0.6259
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

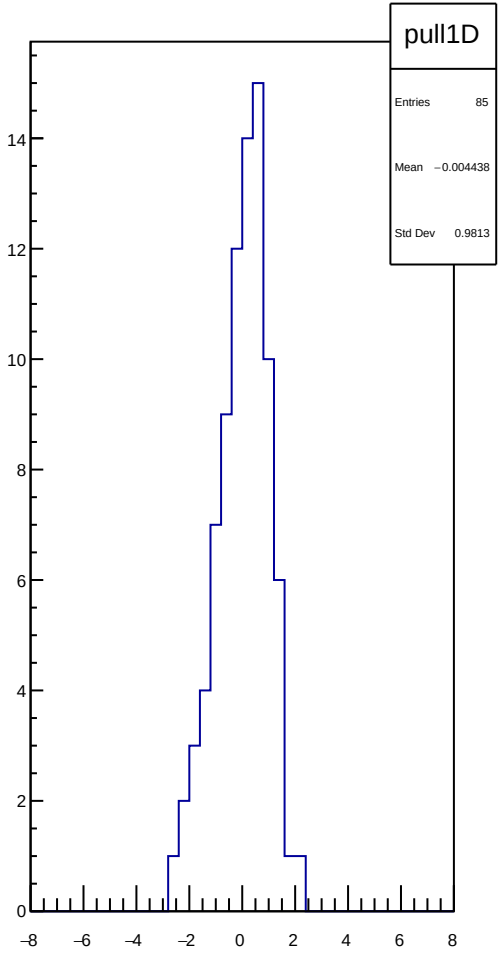

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 82.16 / 84
p0 −0.198 ± 0.1197
pull
Entries 85
Mean 1547
Std Dev 1502

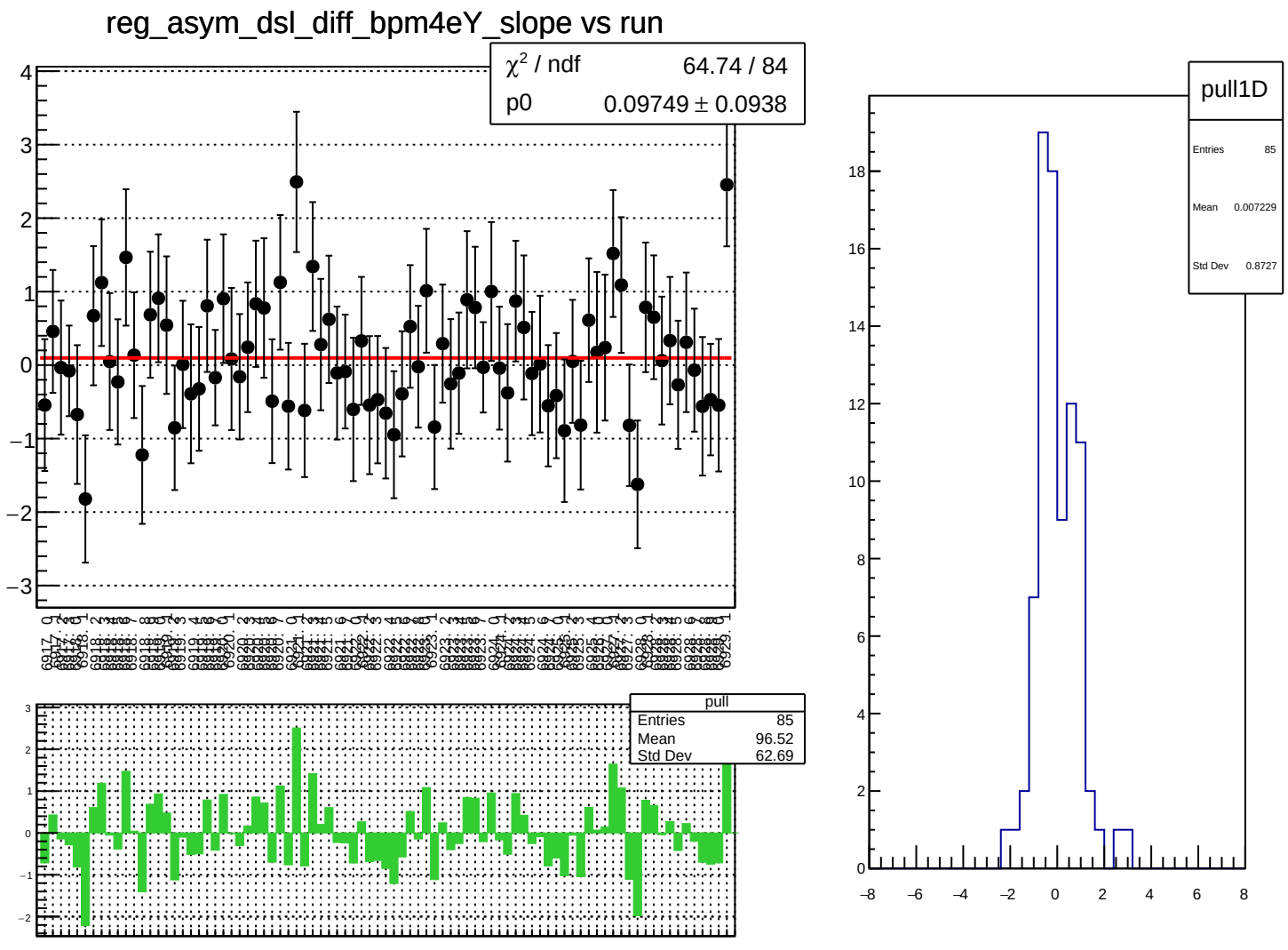

pull1D
Entries 85
Mean 0.003012
Std Dev 0.9832

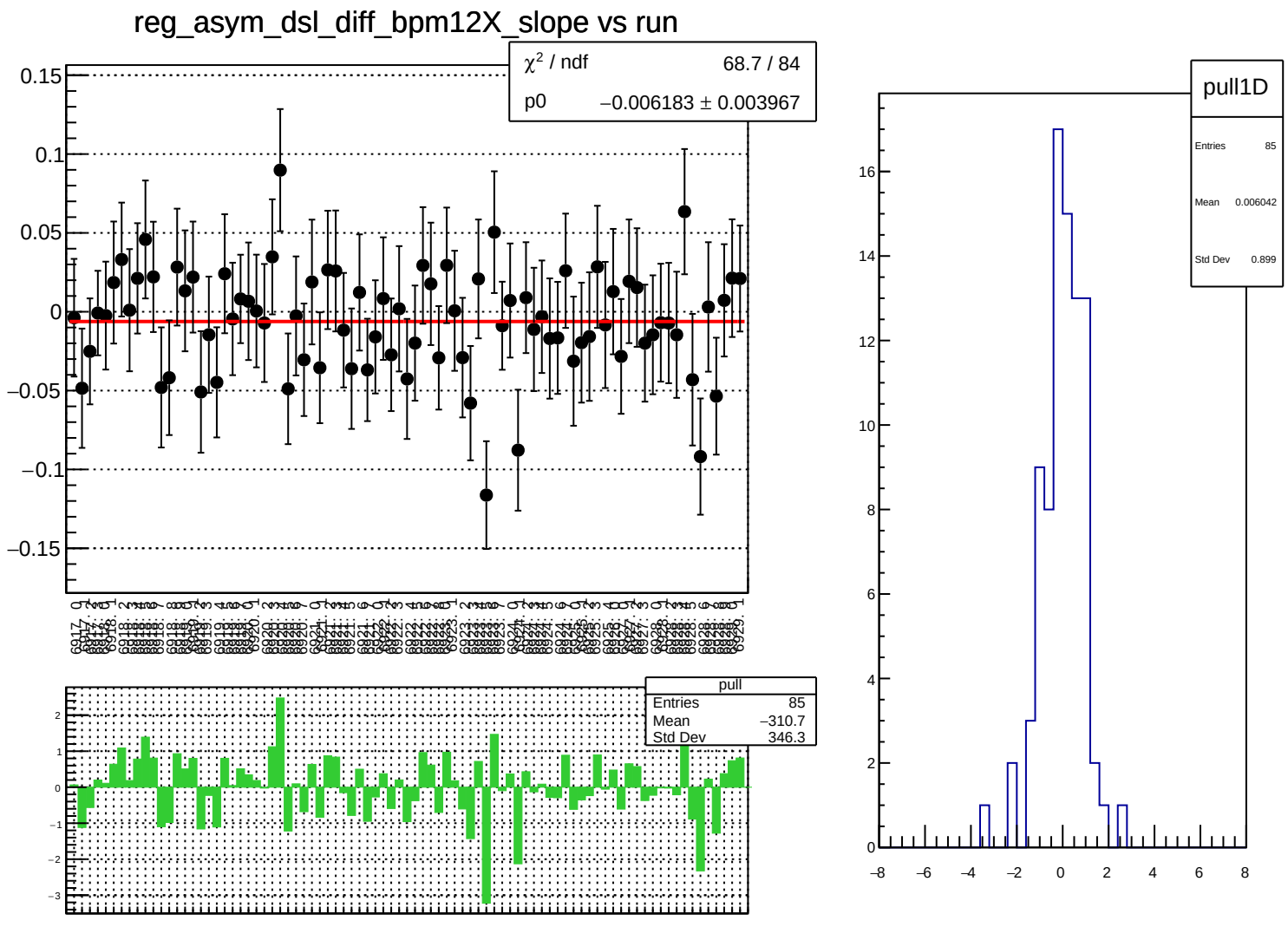

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 70.05 / 84
p0 −0.07087 ± 0.08279
pull
Entries 85
Mean 97.97
Std Dev 55.32

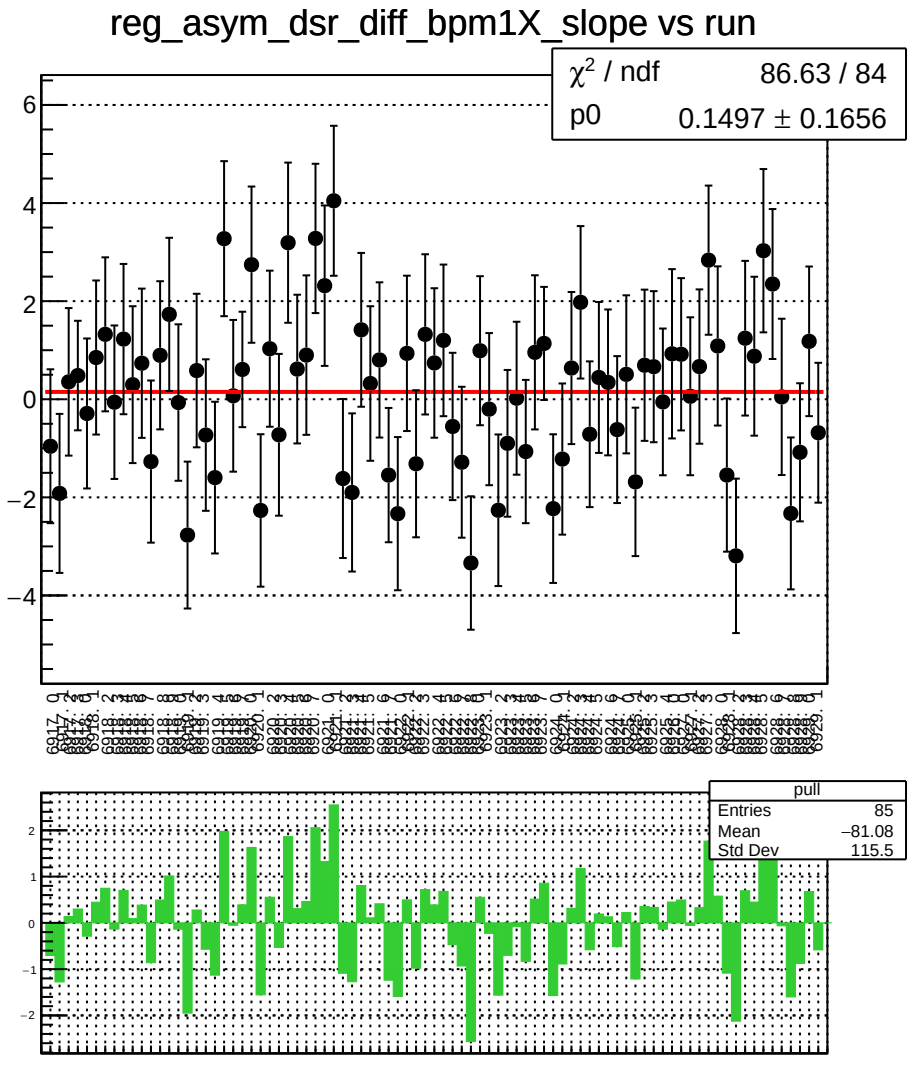

pull1D
Entries 85
Mean −0.01705
Std Dev 0.9077

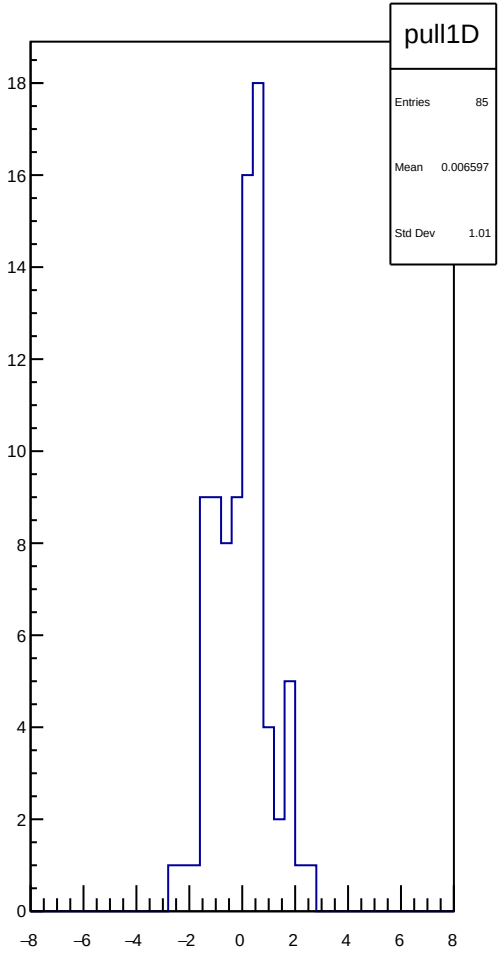

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 81.86 / 84
p0 0.1684 ± 0.1111
pull
Entries 85
Mean 1051
Std Dev 1005

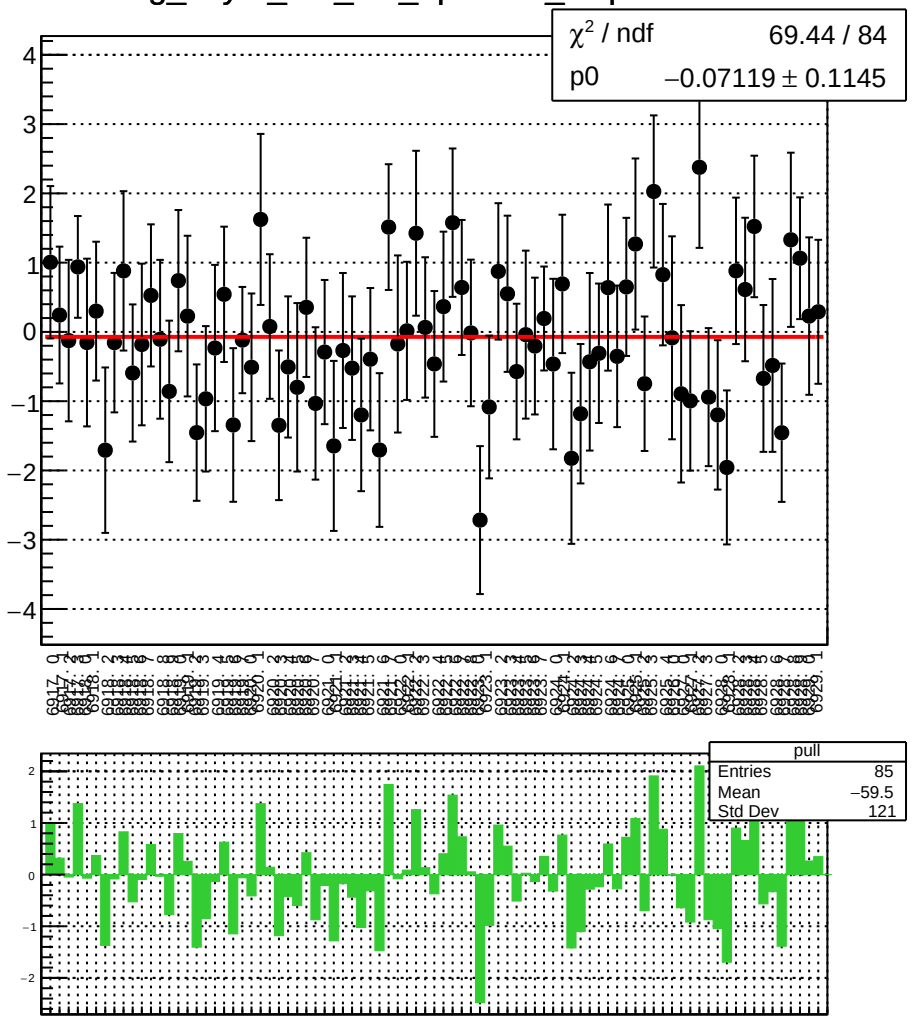

pull1D
Entries 85
Mean −0.004438
Std Dev 0.9813

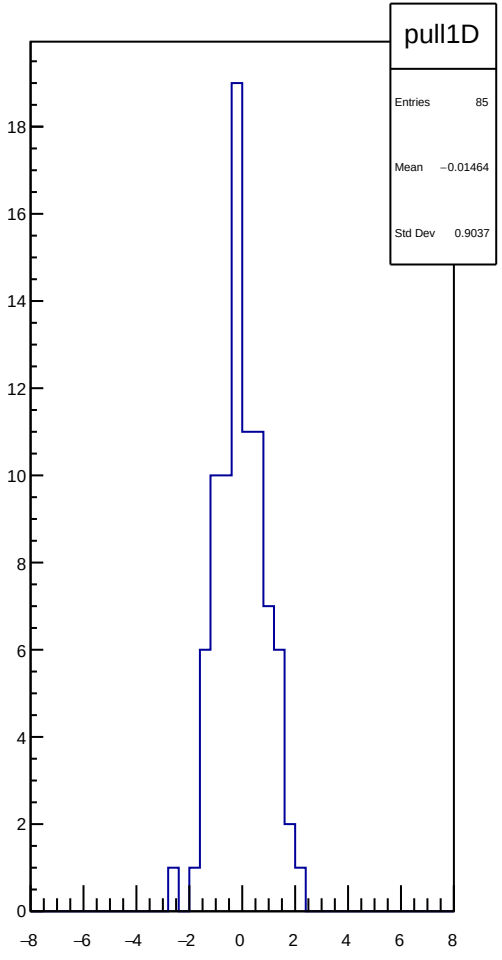

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 64.74 / 84
p0 0.09749 ± 0.0938
pull
Entries 85
Mean 96.52
Std Dev 62.69
pull1D
Entries 85
Mean 0.007229
Std Dev 0.8727

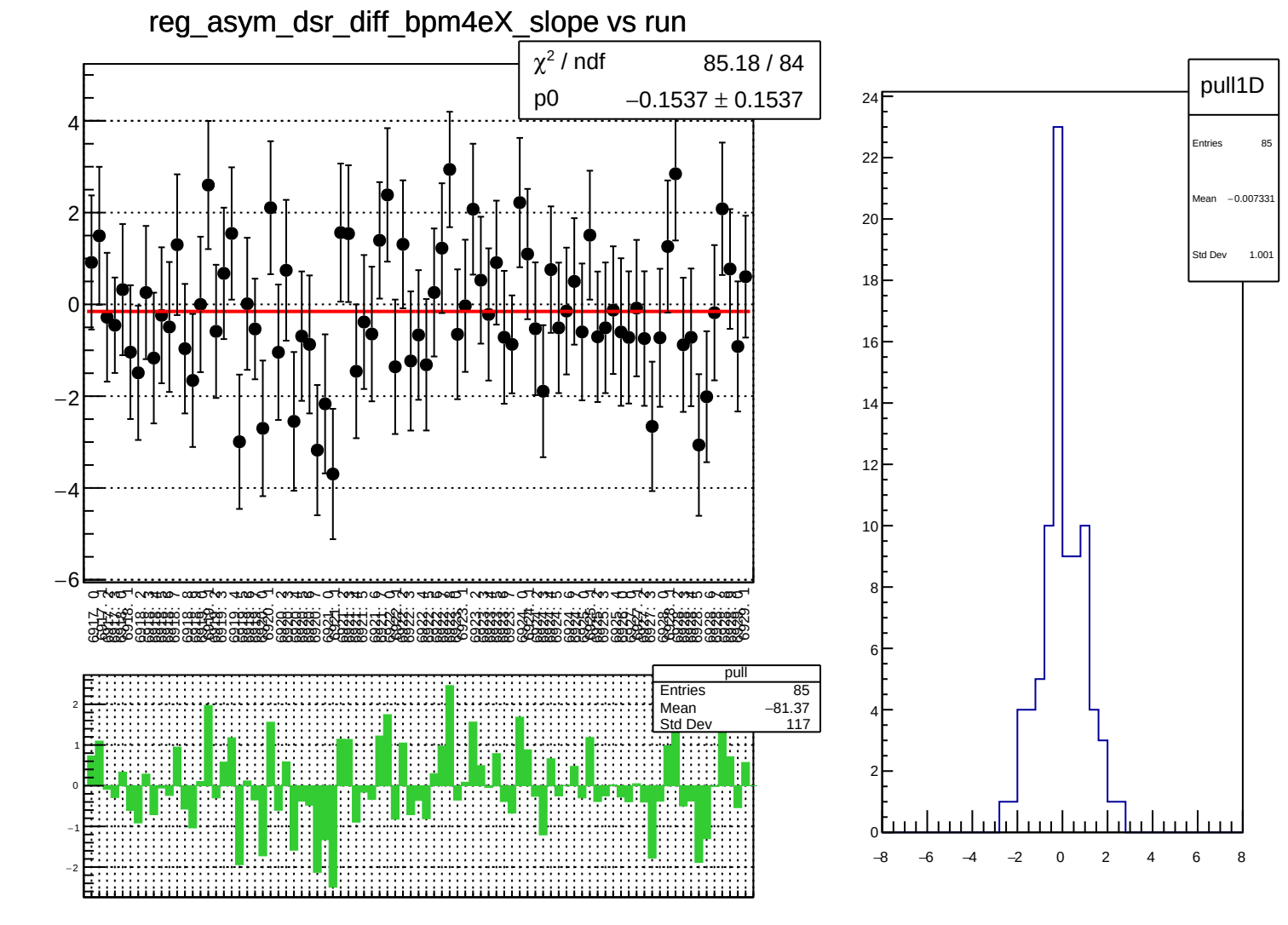

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 68.7 / 84
p0 −0.006183 ± 0.003967
pull
Entries 85
Mean −310.7
Std Dev 346.3
pull1D
Entries 85
Mean 0.006042
Std Dev 0.899

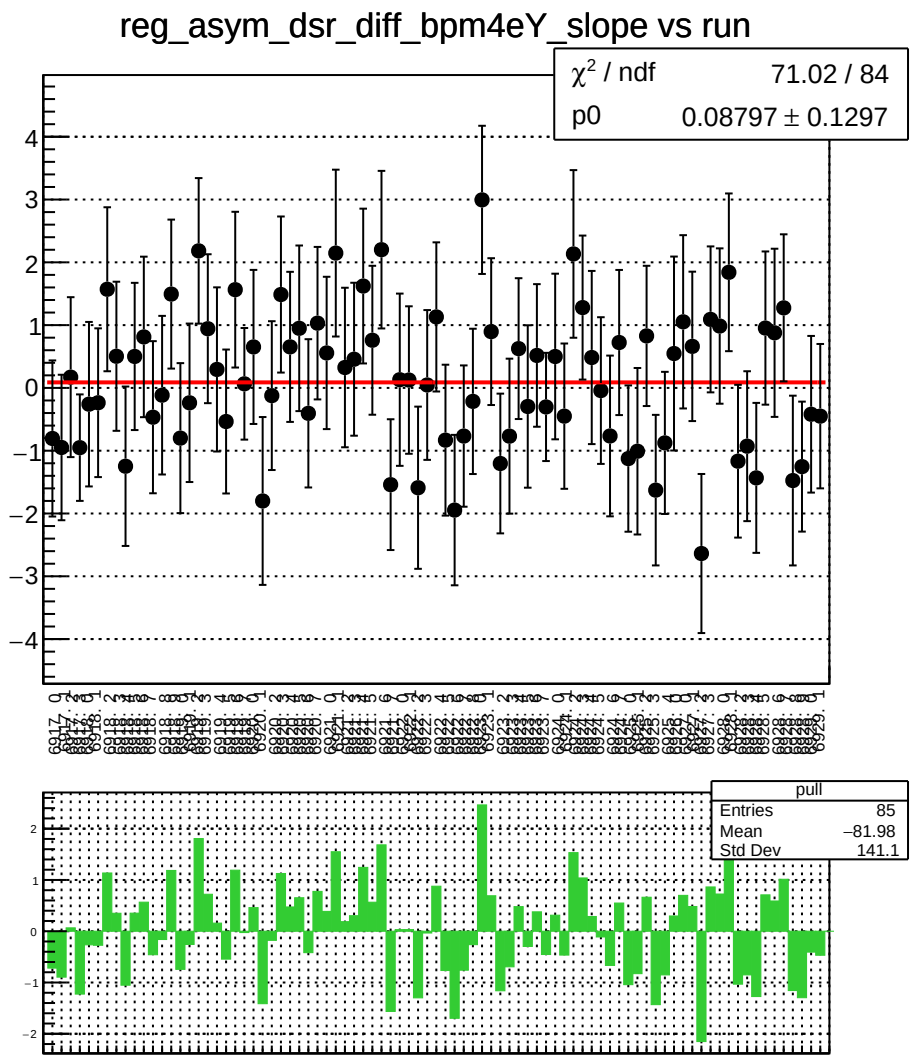

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 86.63 / 84
p0 0.1497 ± 0.1656
pull
Entries 85
Mean −81.08
Std Dev 115.5

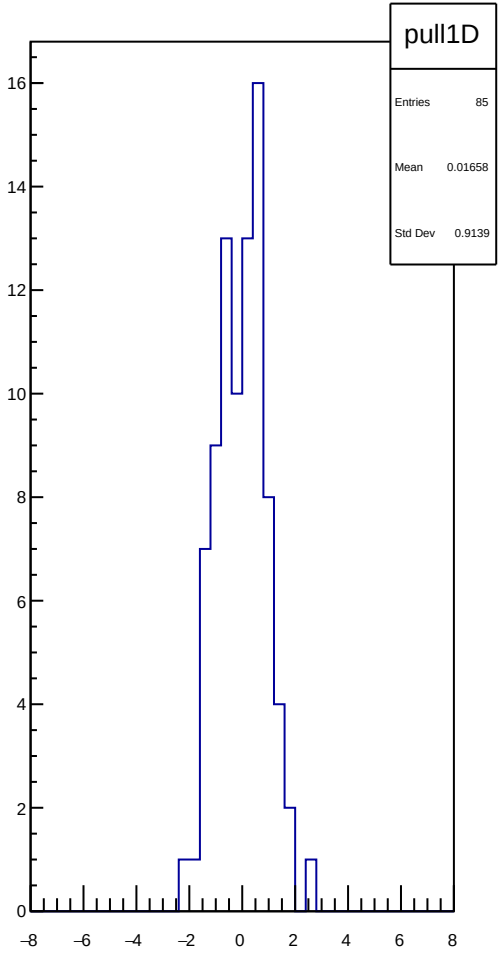

pull1D
Entries 85
Mean 0.006597
Std Dev 1.01

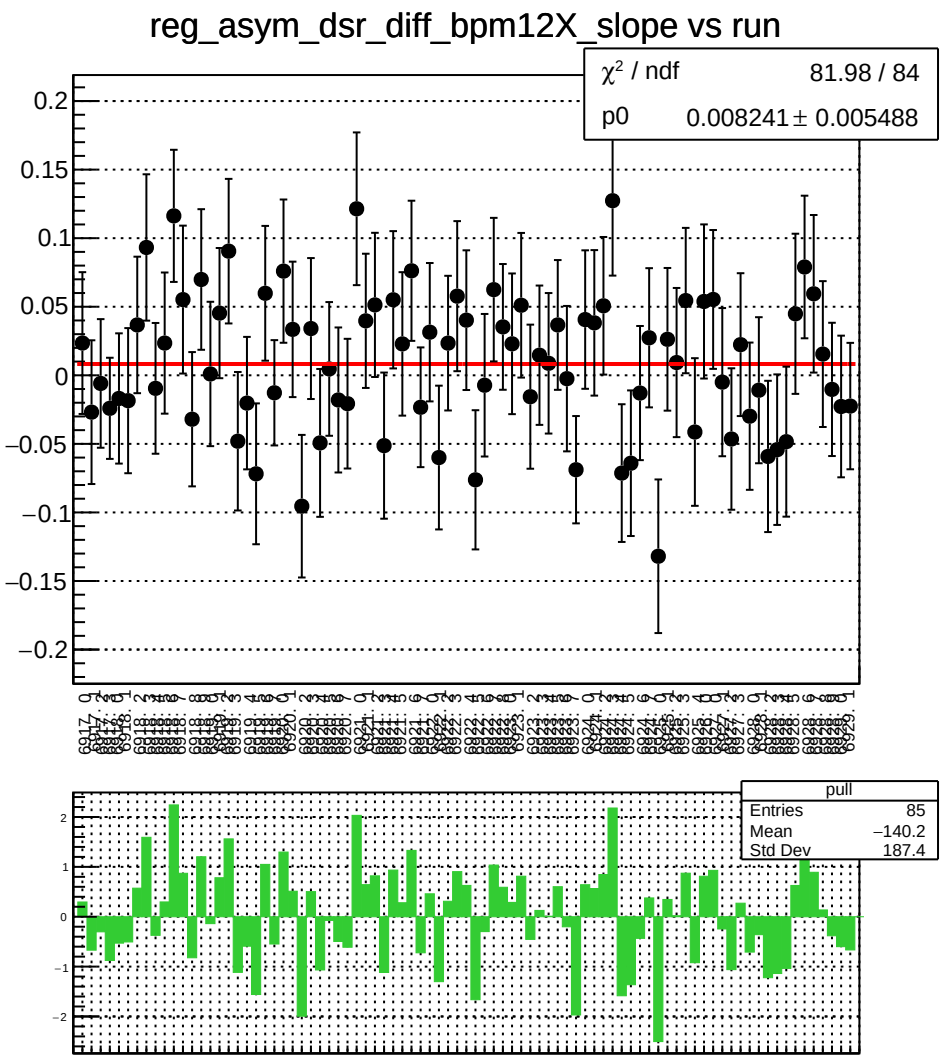

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 69.44 / 84
p0 −0.07119 ± 0.1145
pull
Entries 85
Mean −59.5
Std Dev 121

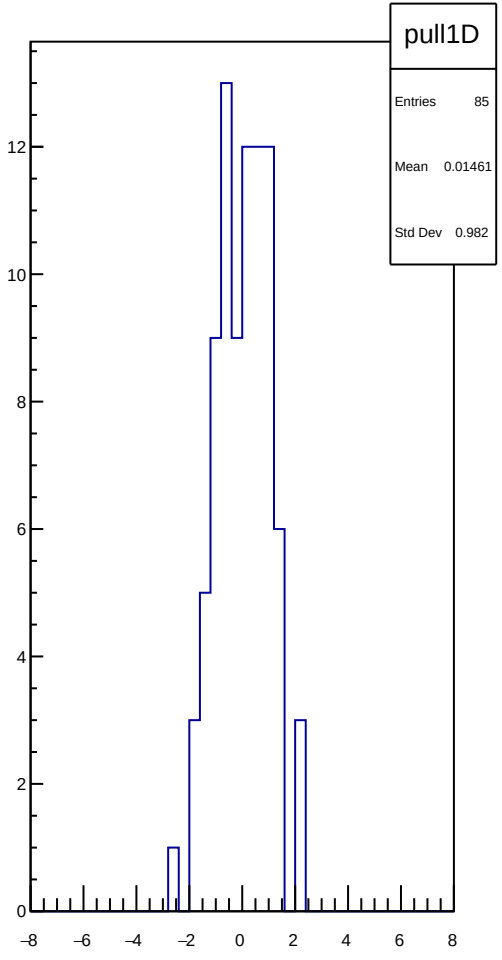

pull1D
Entries 85
Mean −0.01464
Std Dev 0.9037

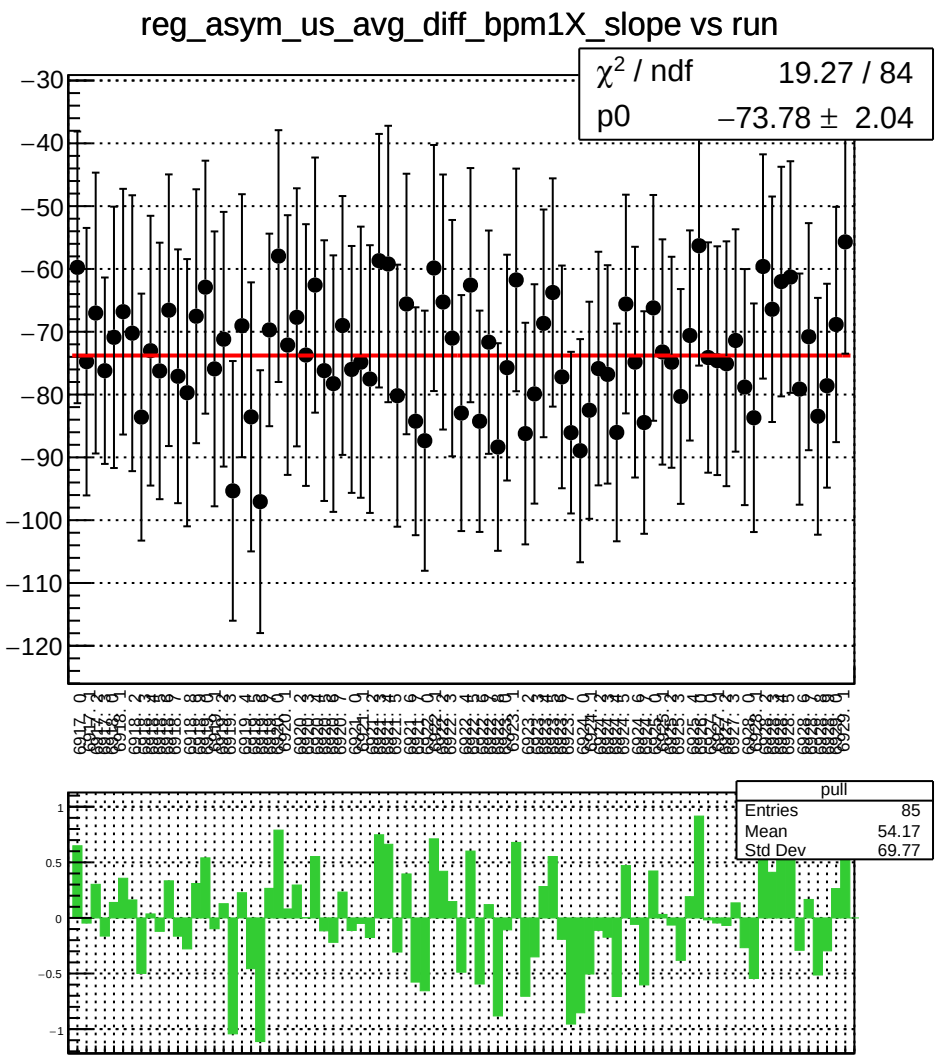

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 85.18 / 84
p0 −0.1537 ± 0.1537
pull
Entries 85
Mean −81.37
Std Dev 117
pull1D
Entries 85
Mean −0.007331
Std Dev 1.001

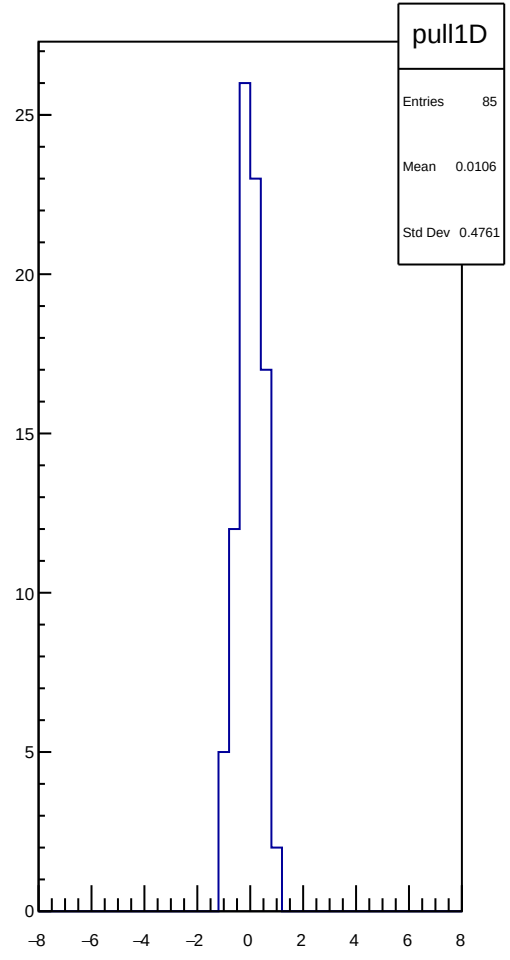

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 71.02 / 84
p0 0.08797 ± 0.1297
pull
Entries 85
Mean −81.98
Std Dev 141.1

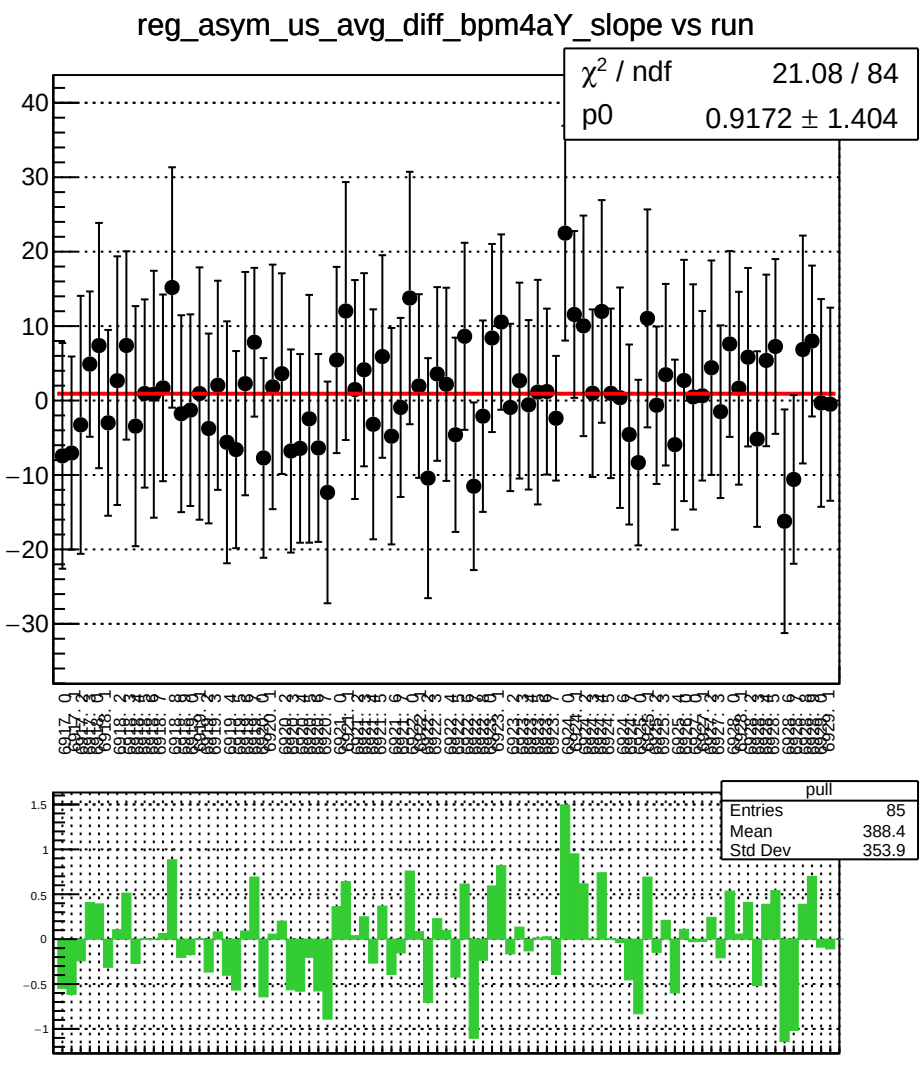

pull1D
Entries 85
Mean 0.01658
Std Dev 0.9139

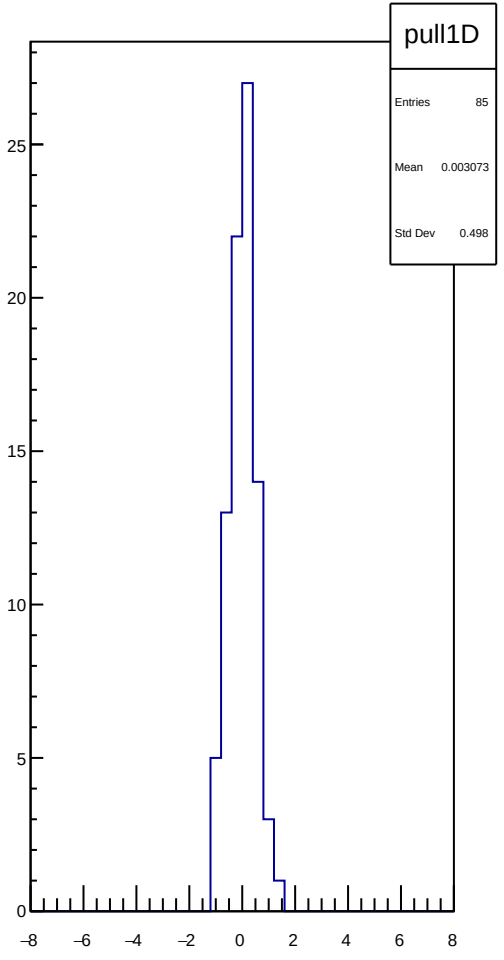

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 81.98 / 84
p0 0.008241 ± 0.005488
pull
Entries 85
Mean −140.2
Std Dev 187.4

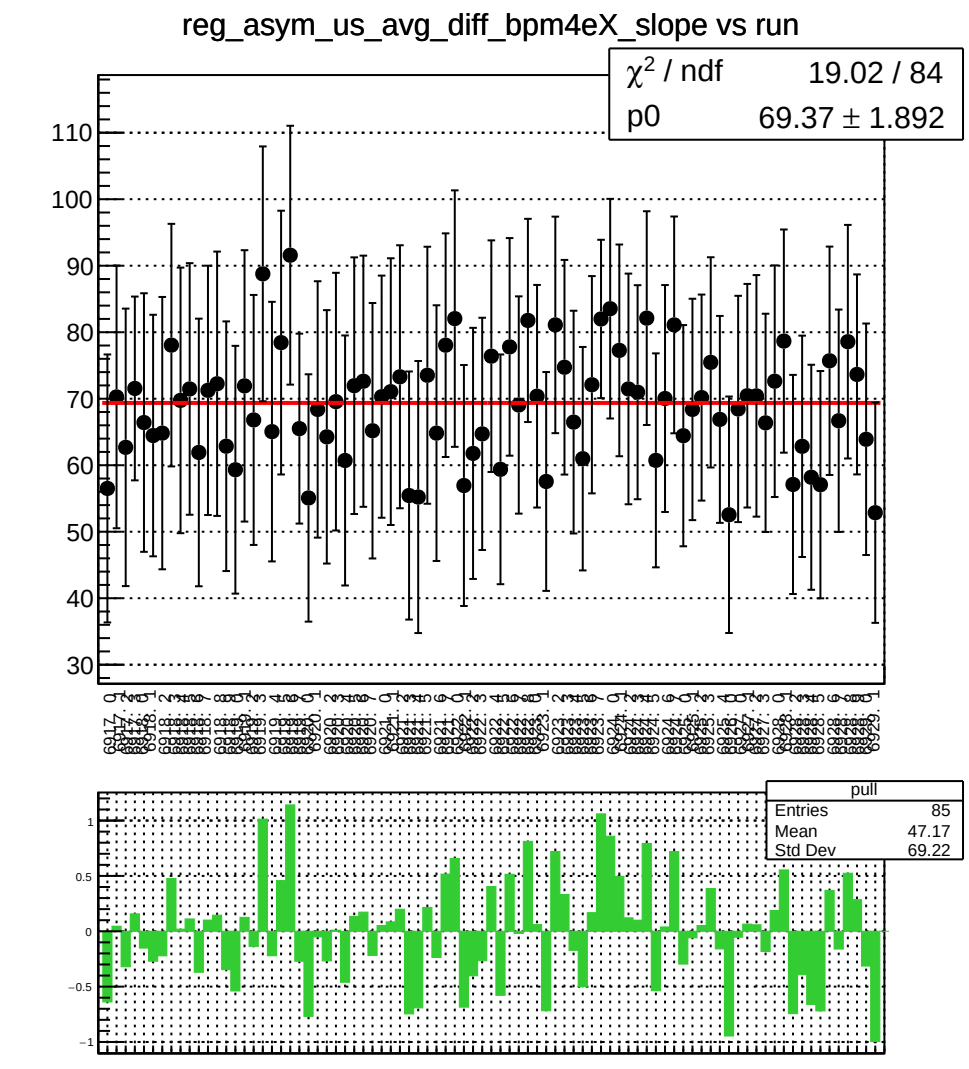

pull1D
Entries 85
Mean 0.01461
Std Dev 0.982

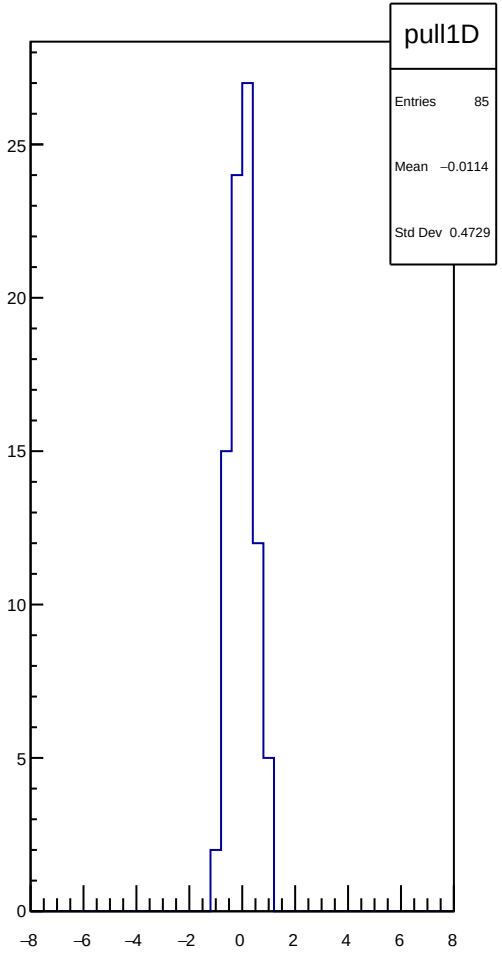

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 19.27 / 84
p0 −73.78 ± 2.04
pull
Entries 85
Mean 54.17
Std Dev 69.77

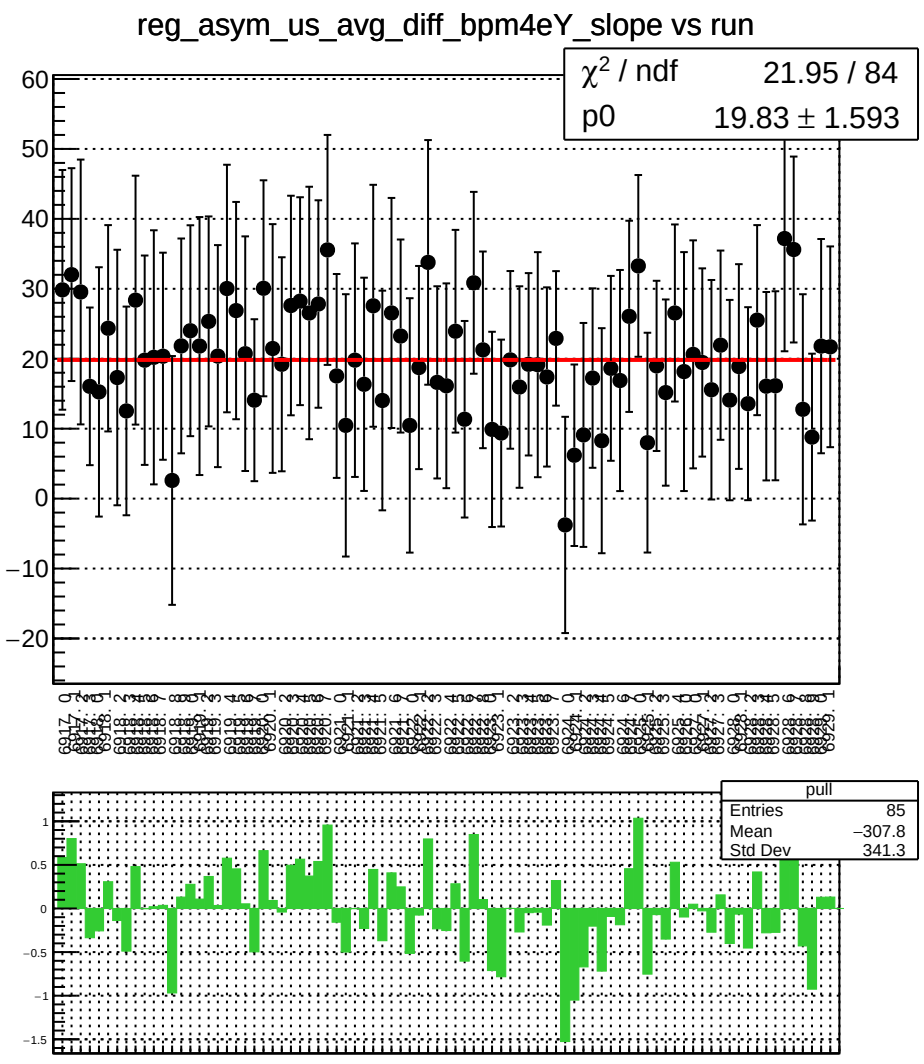

pull1D
Entries 85
Mean 0.0106
Std Dev 0.4761

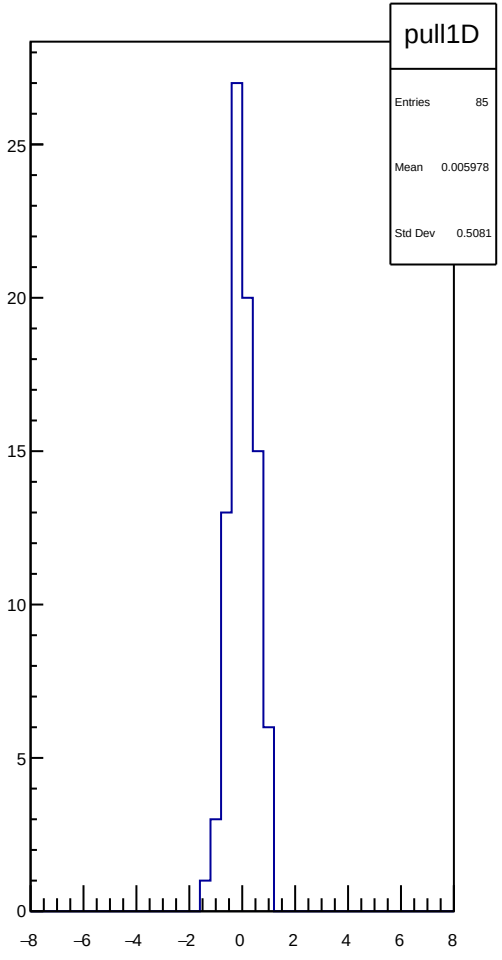

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.08 / 84
p0 0.9172 ± 1.404
pull
Entries 85
Mean 388.4
Std Dev 353.9

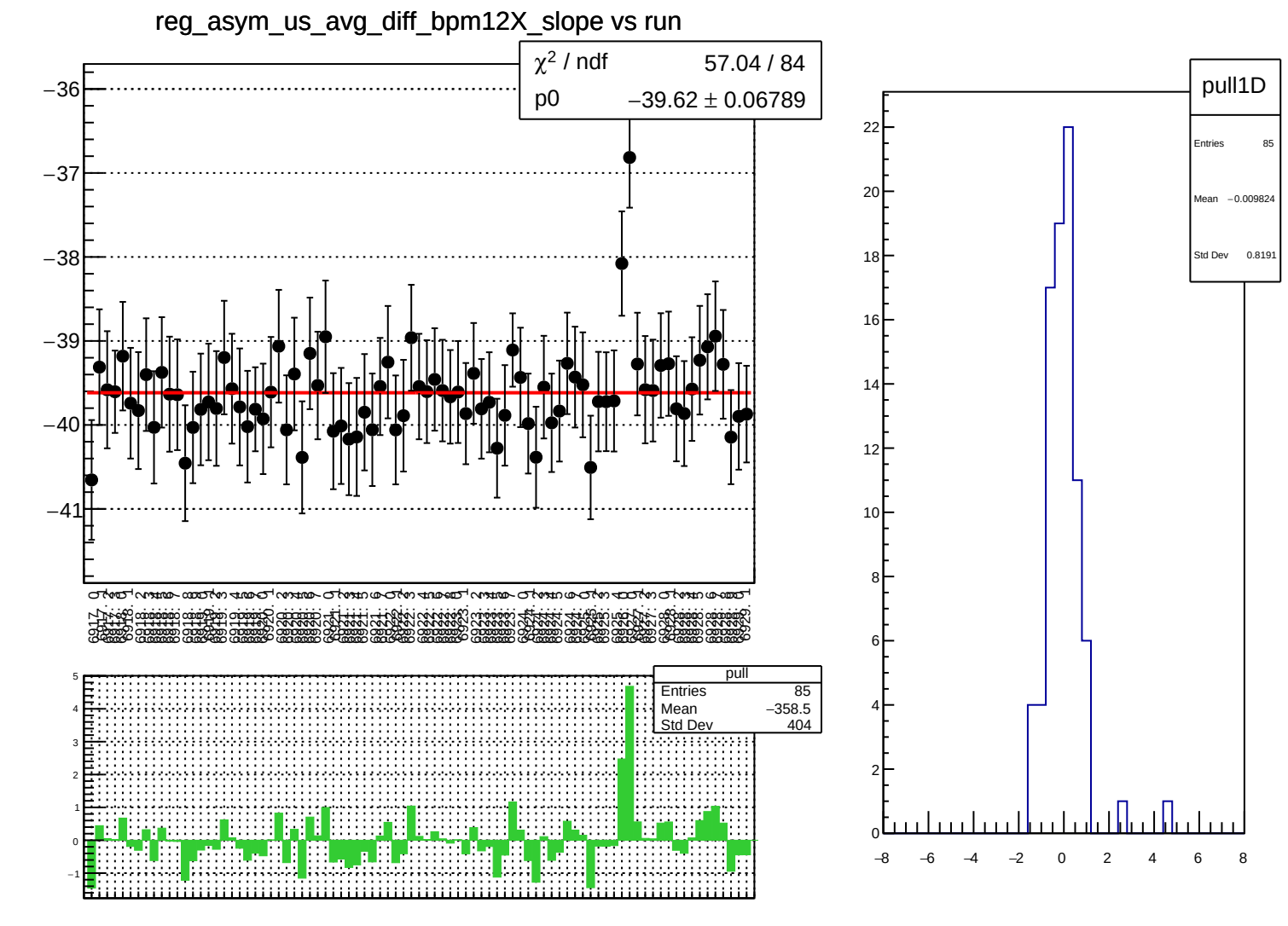

pull1D
Entries 85
Mean 0.003073
Std Dev 0.498

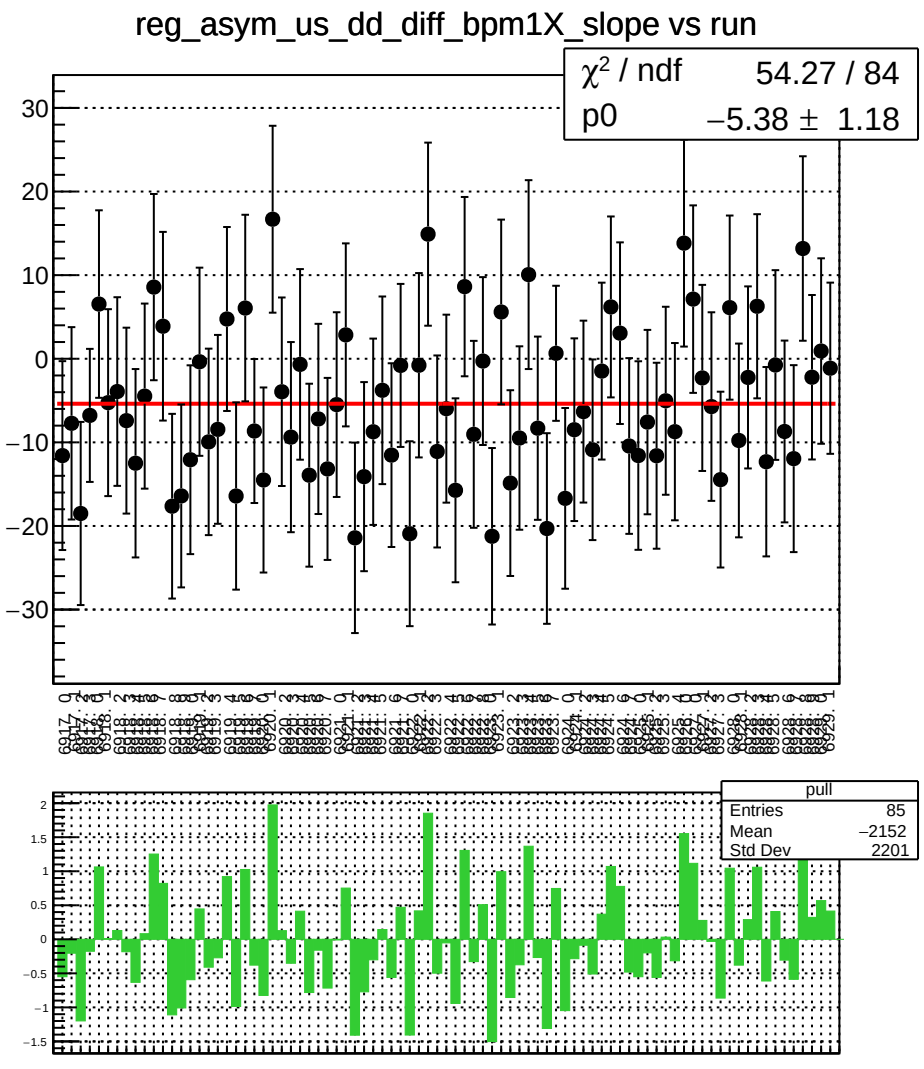

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.02 / 84
p0 69.37 ± 1.892
pull
Entries 85
Mean 47.17
Std Dev 69.22

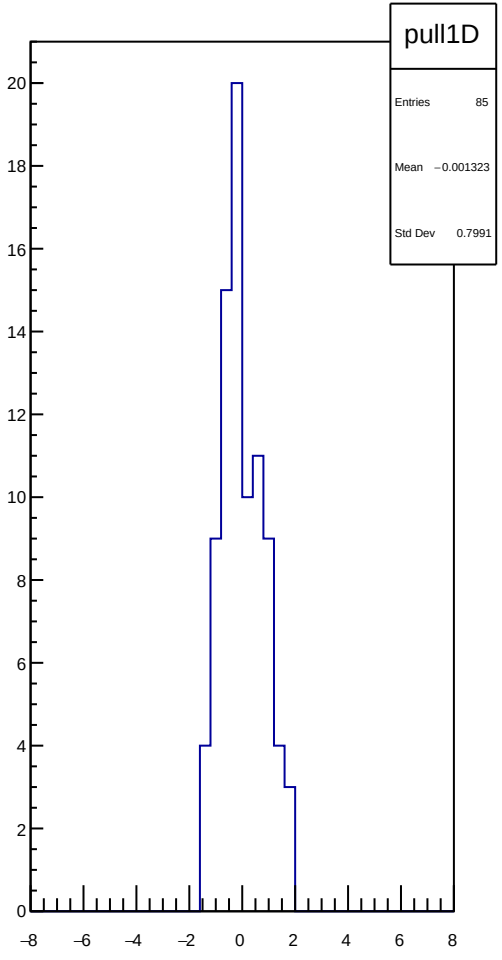

pull1D
Entries 85
Mean −0.0114
Std Dev 0.4729

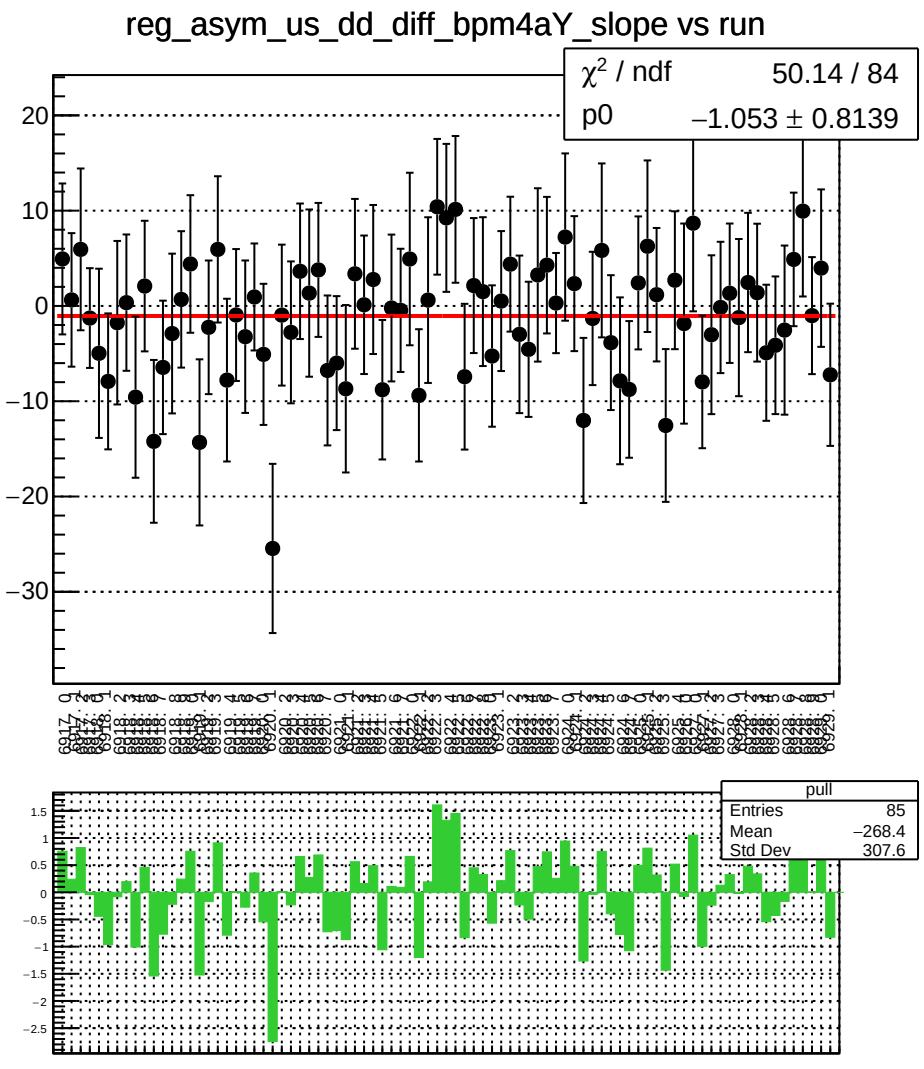

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.95 / 84
p0 19.83 ± 1.593
pull
Entries 85
Mean −307.8
Std Dev 341.3

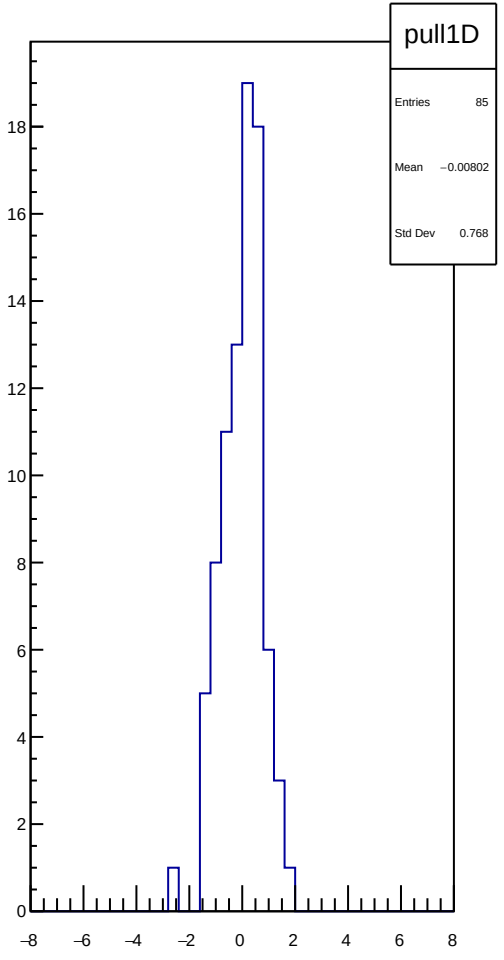

pull1D
Entries 85
Mean 0.005978
Std Dev 0.5081

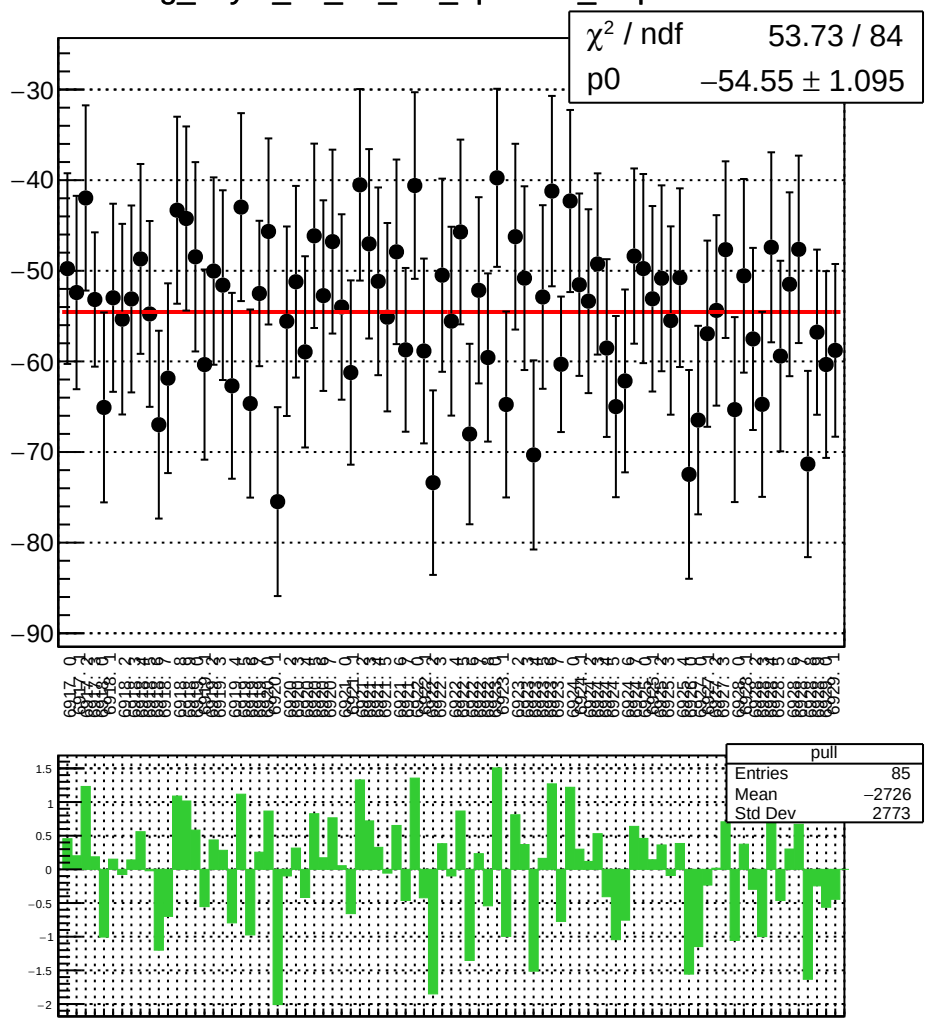

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 57.04 / 84
p0 −39.62 ± 0.06789
pull
Entries 85
Mean −358.5
Std Dev 404
pull1D
Entries 85
Mean −0.009824
Std Dev 0.8191

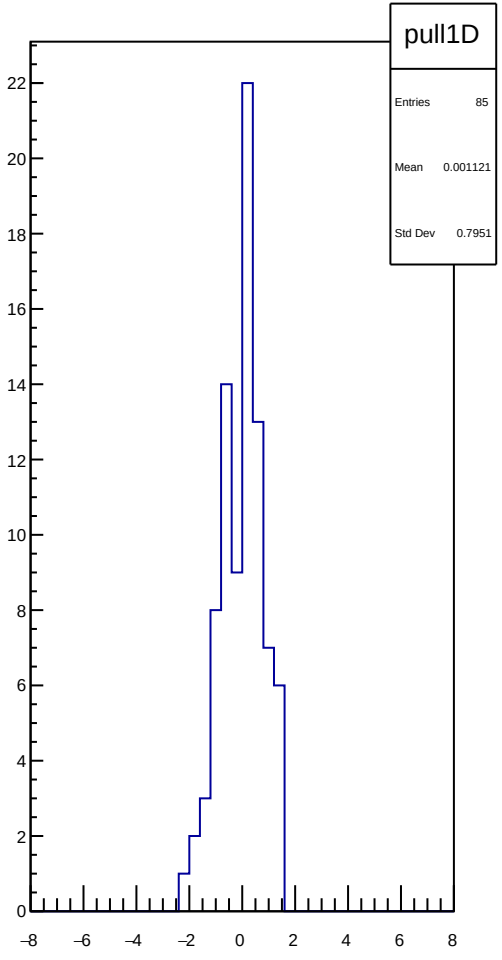

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 54.27 / 84
p0 −5.38 ± 1.18
pull
Entries 85
Mean −2152
Std Dev 2201

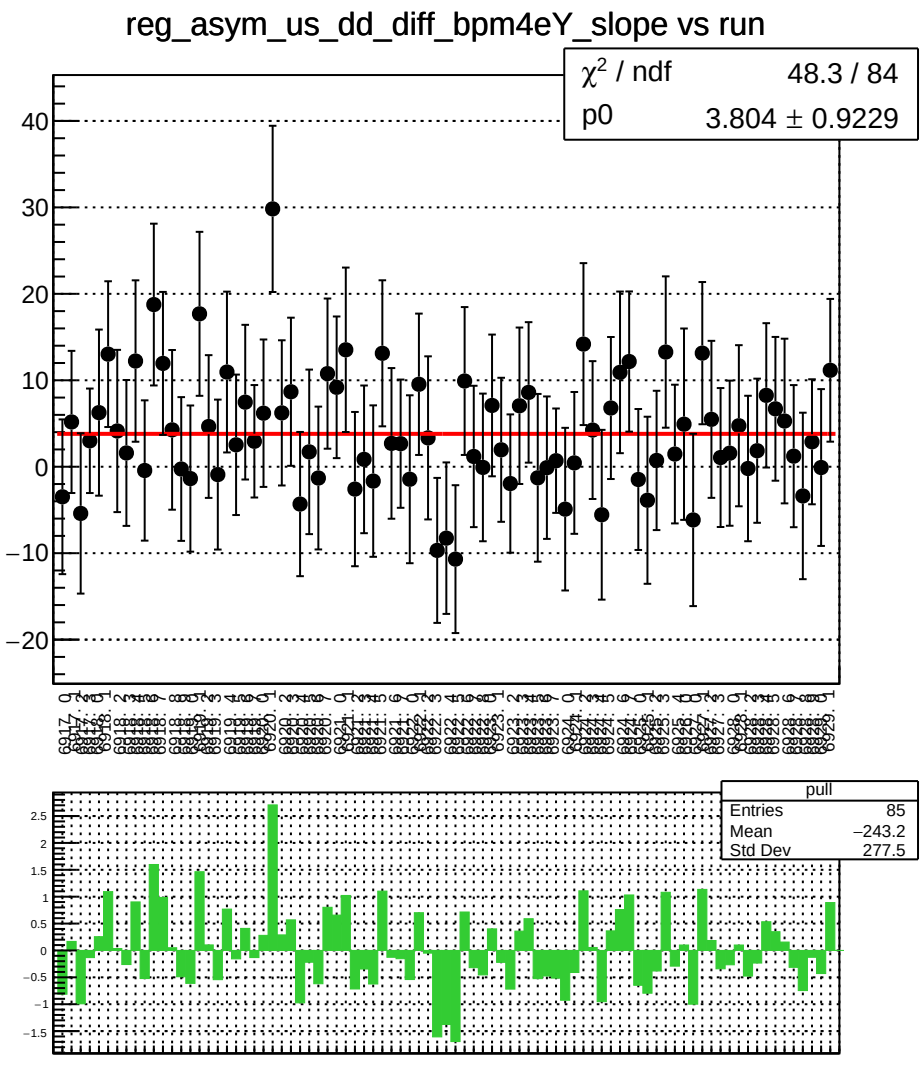

pull1D
Entries 85
Mean −0.001323
Std Dev 0.7991

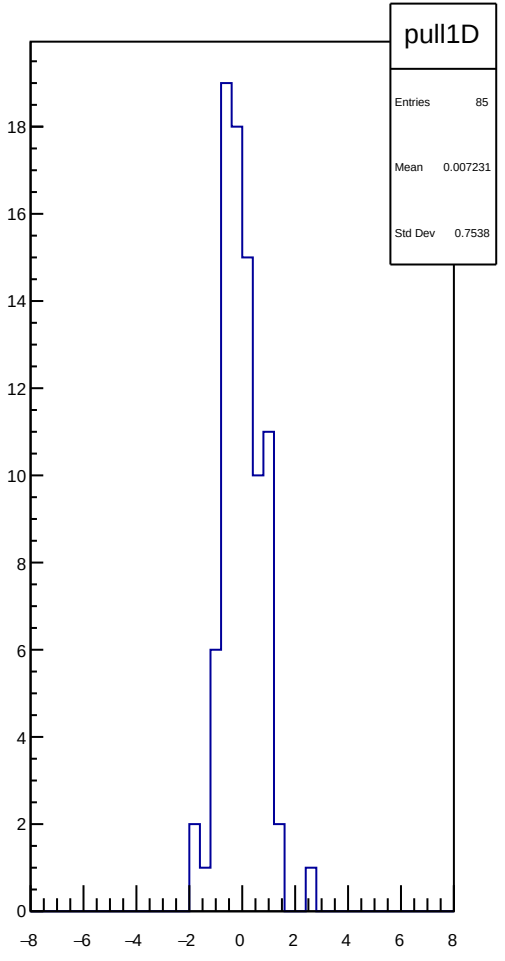

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.14 / 84
p0 −1.053 ± 0.8139
pull
Entries 85
Mean −268.4
Std Dev 307.6

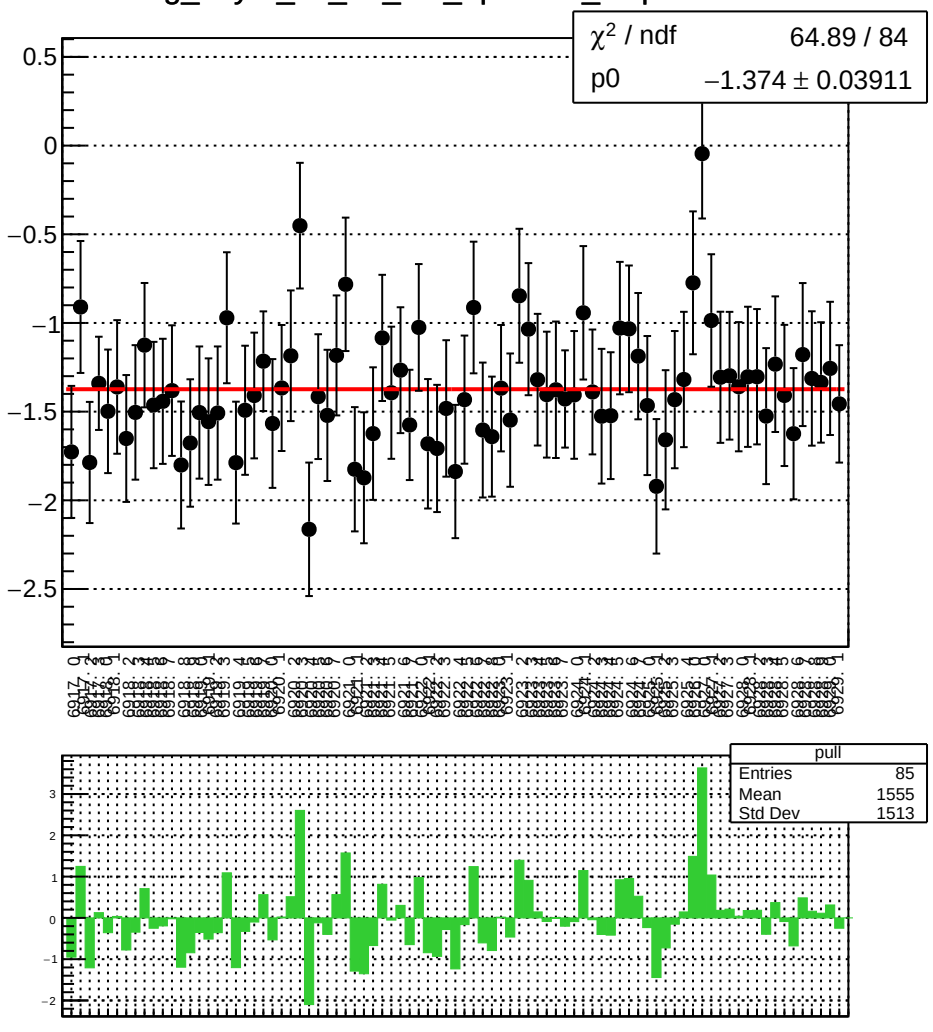

pull1D
Entries 85
Mean −0.00802
Std Dev 0.768

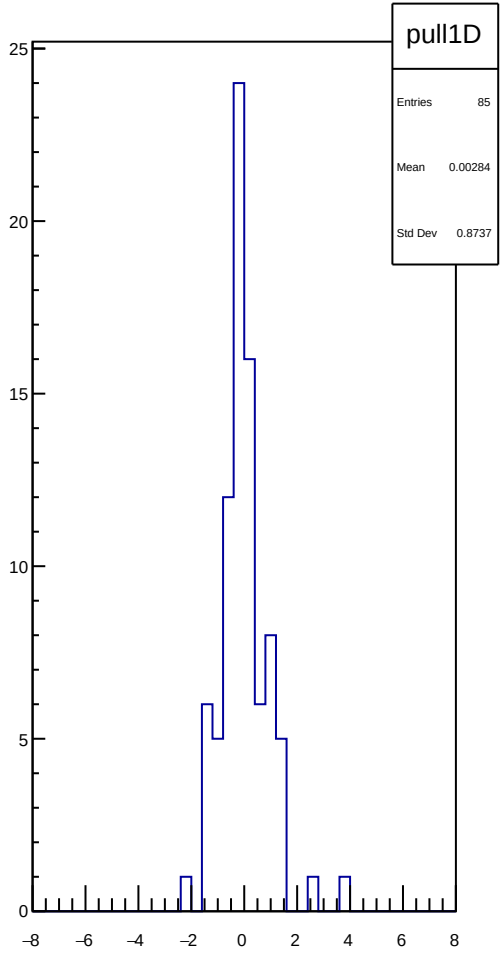

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.73 / 84
p0 −54.55 ± 1.095
pull
Entries 85
Mean −2726
Std Dev 2773

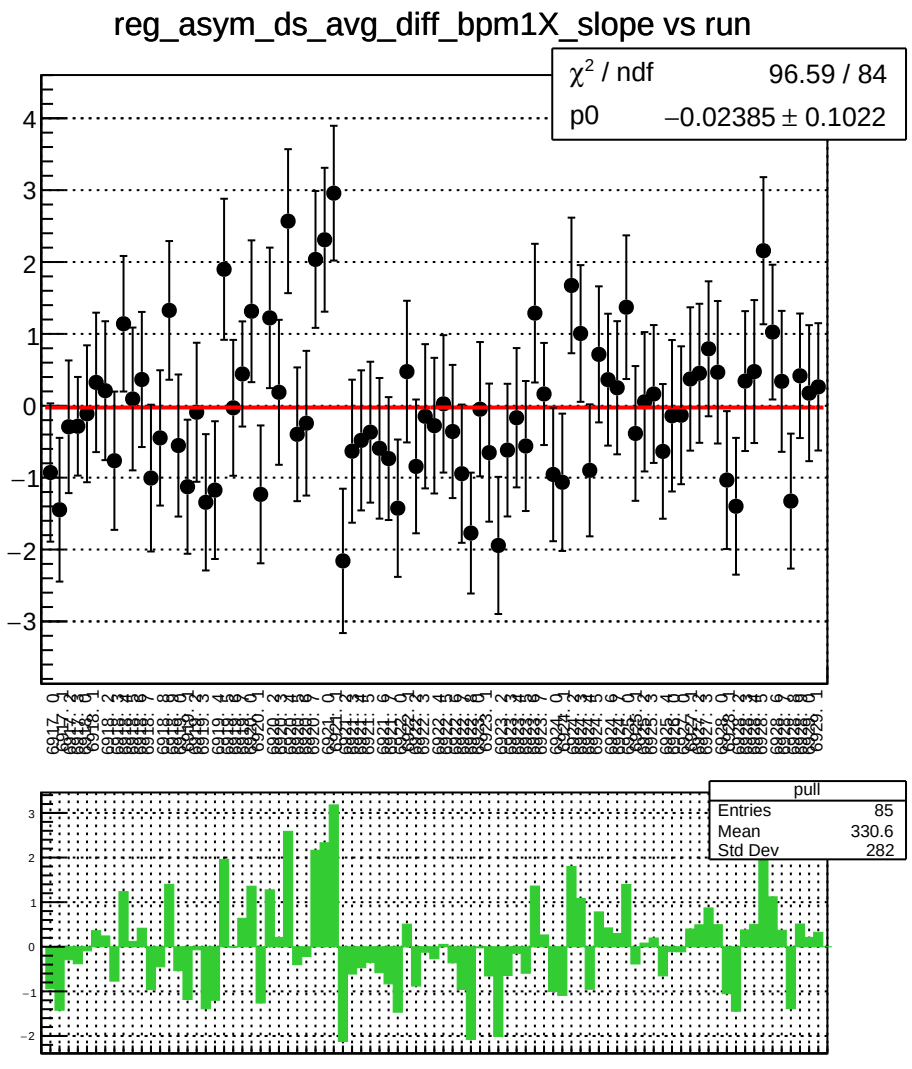

pull1D
Entries 85
Mean 0.001121
Std Dev 0.7951

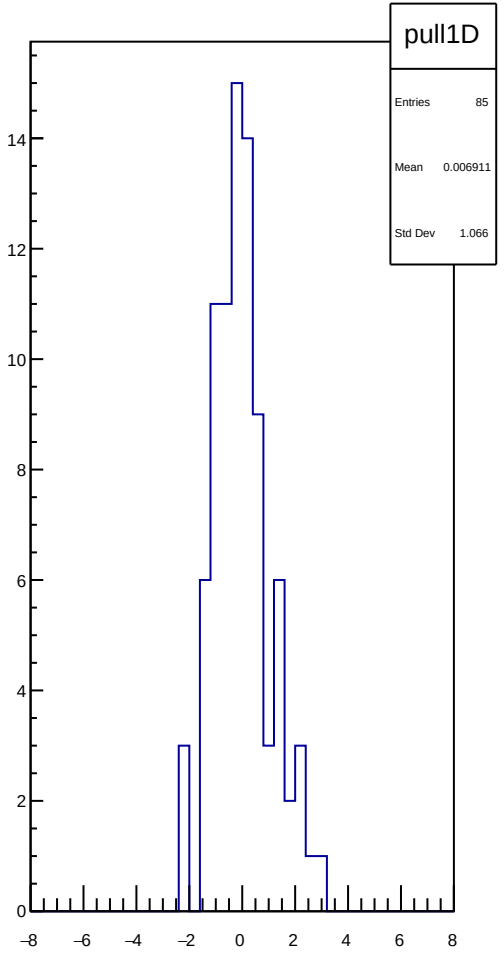

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.3 / 84
p0 3.804 ± 0.9229
pull
Entries 85
Mean −243.2
Std Dev 277.5

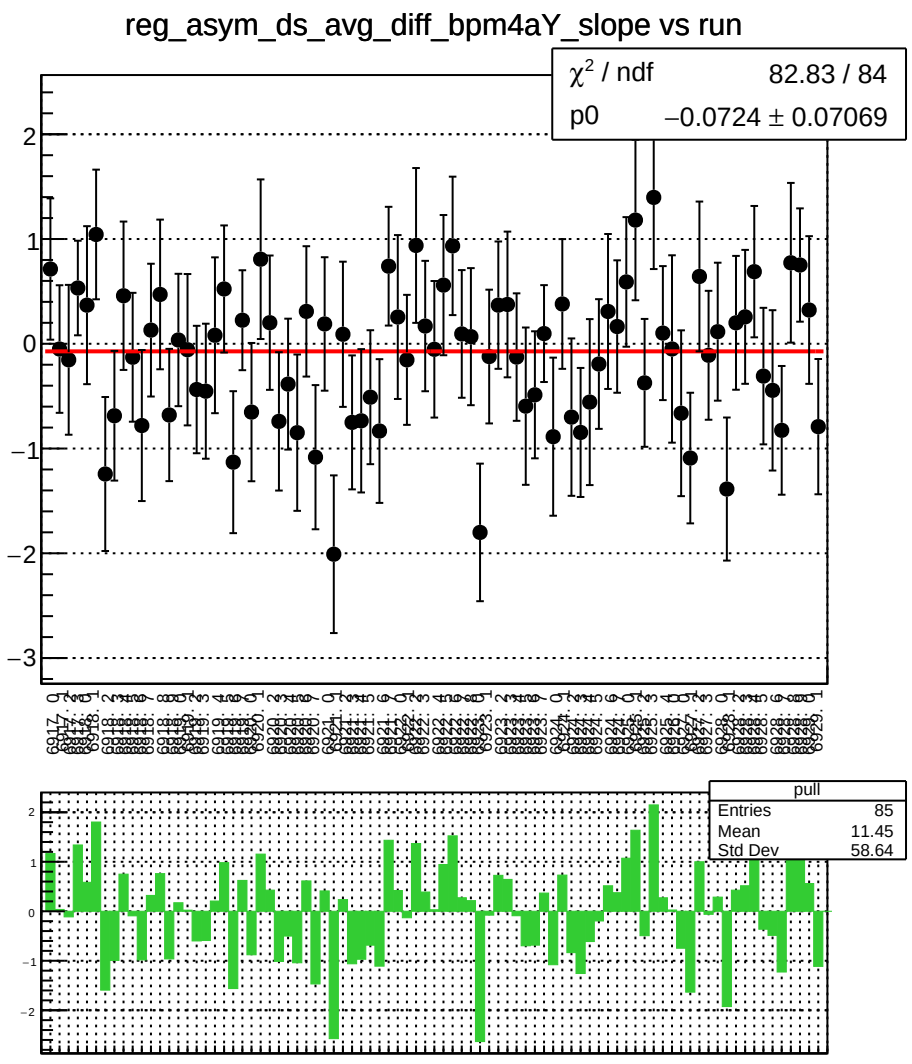

pull1D
Entries 85
Mean 0.007231
Std Dev 0.7538

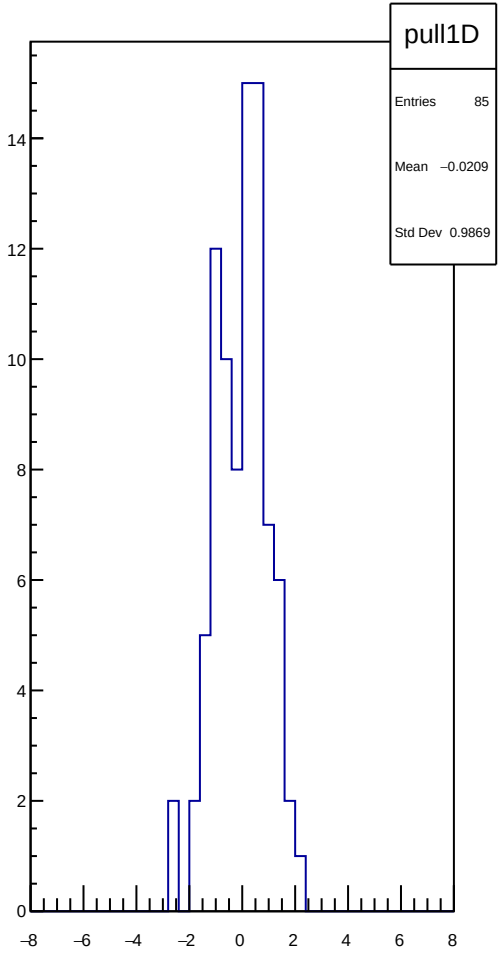

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 64.89 / 84
p0 −1.374 ± 0.03911
pull
Entries 85
Mean 1555
Std Dev 1513

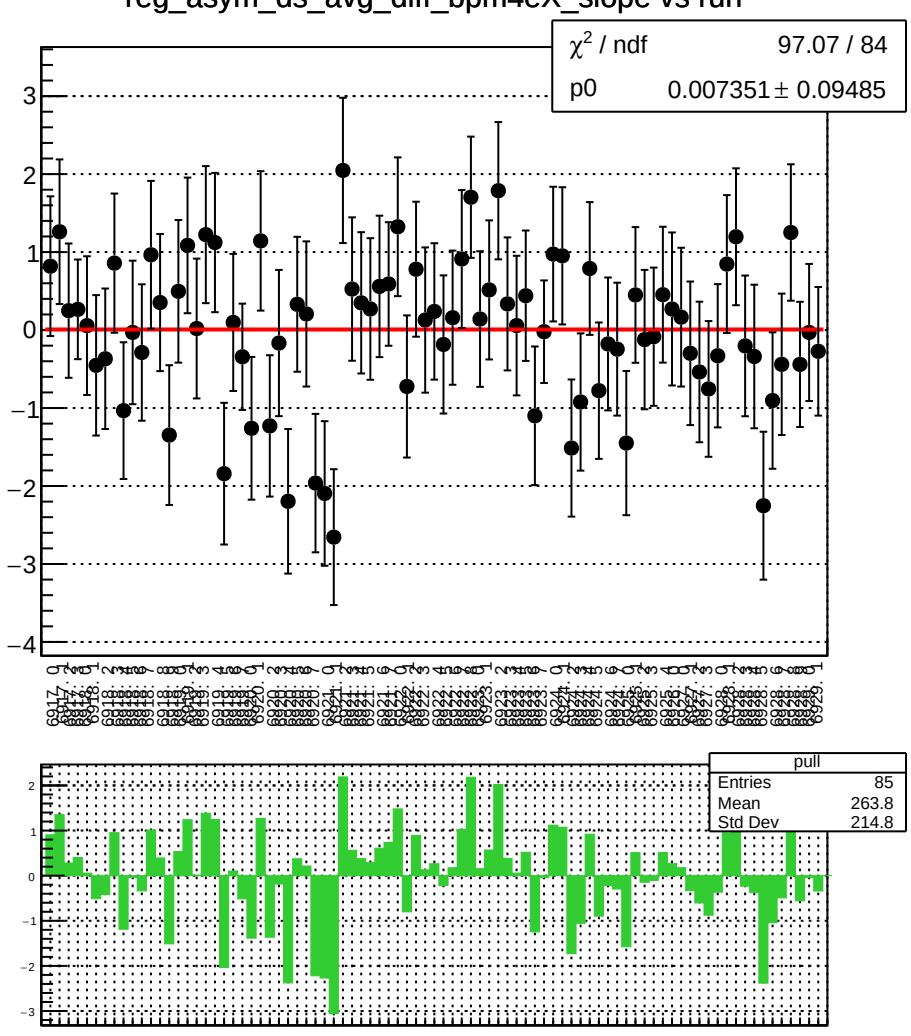

pull1D
Entries 85
Mean 0.00284
Std Dev 0.8737

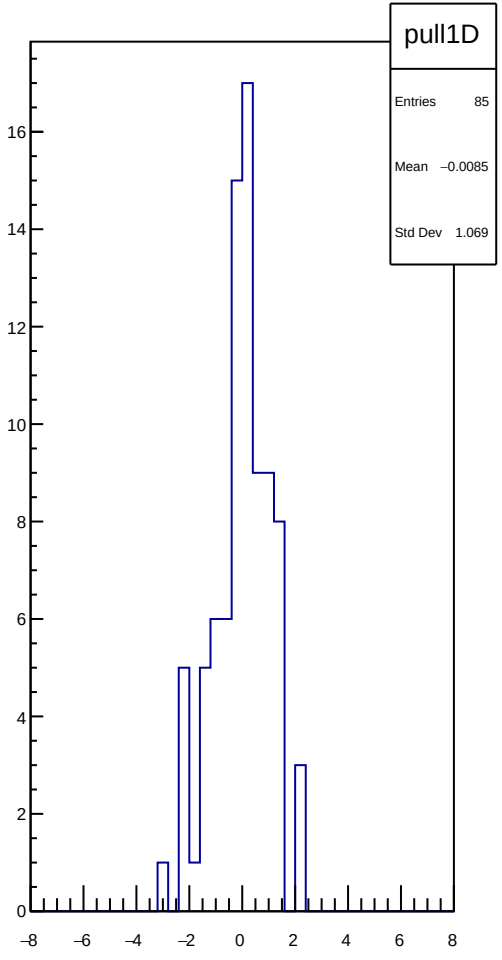

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ^2 / ndf 96.59 / 84
p0 −0.02385 ± 0.1022
pull
Entries 85
Mean 330.6
Std Dev 282

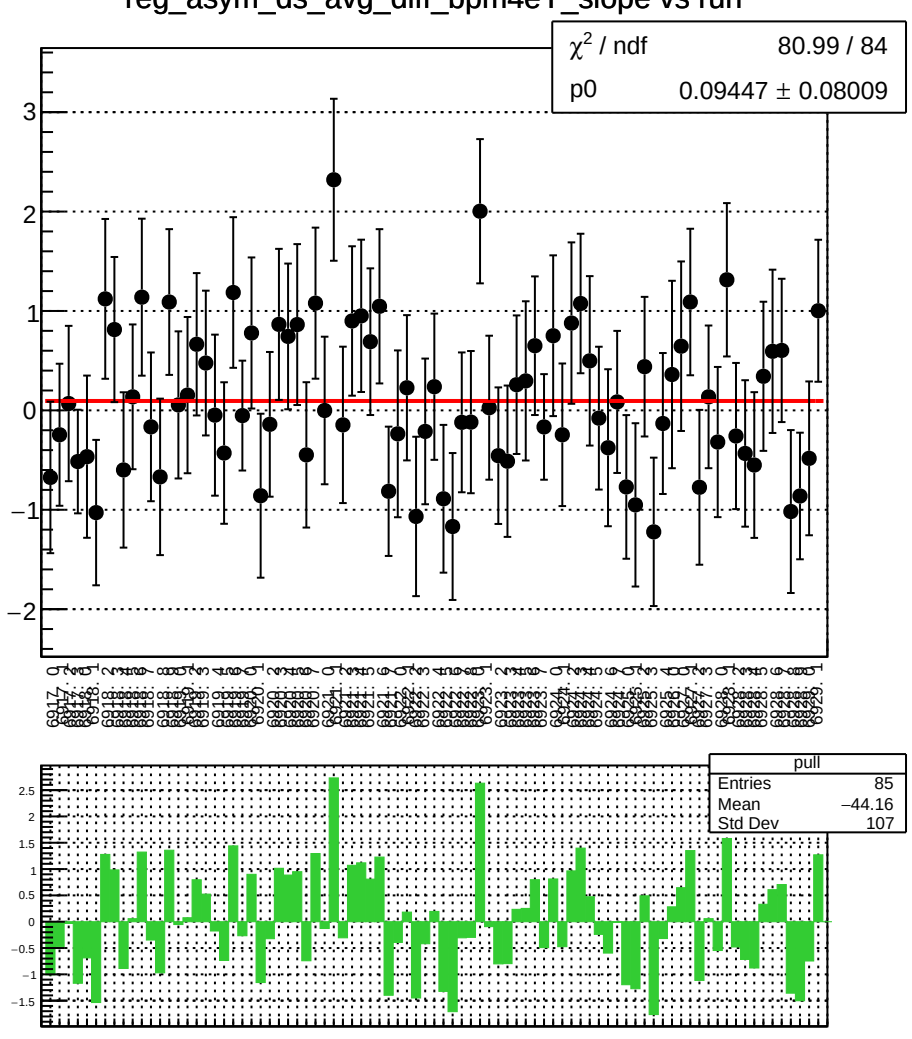

pull1D
Entries 85
Mean 0.006911
Std Dev 1.066

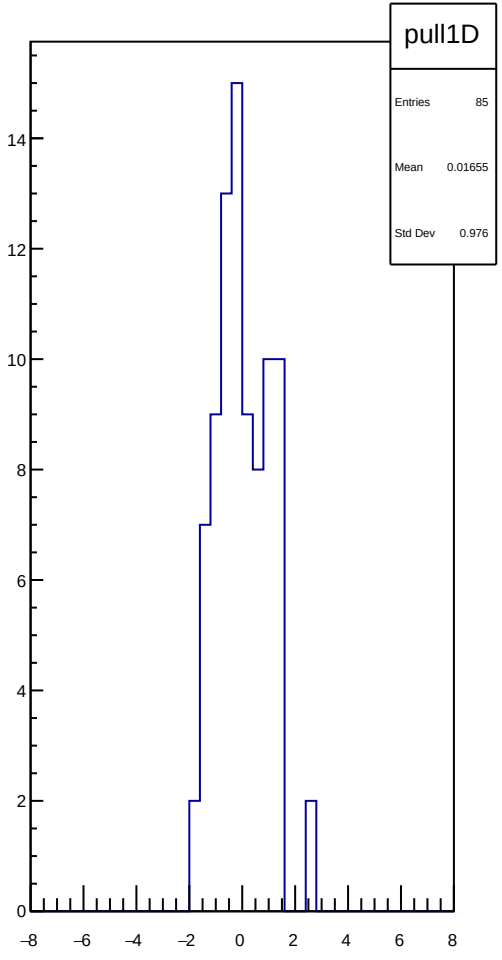

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.83 / 84
p0 −0.0724 ± 0.07069
pull
Entries 85
Mean 11.45
Std Dev 58.64

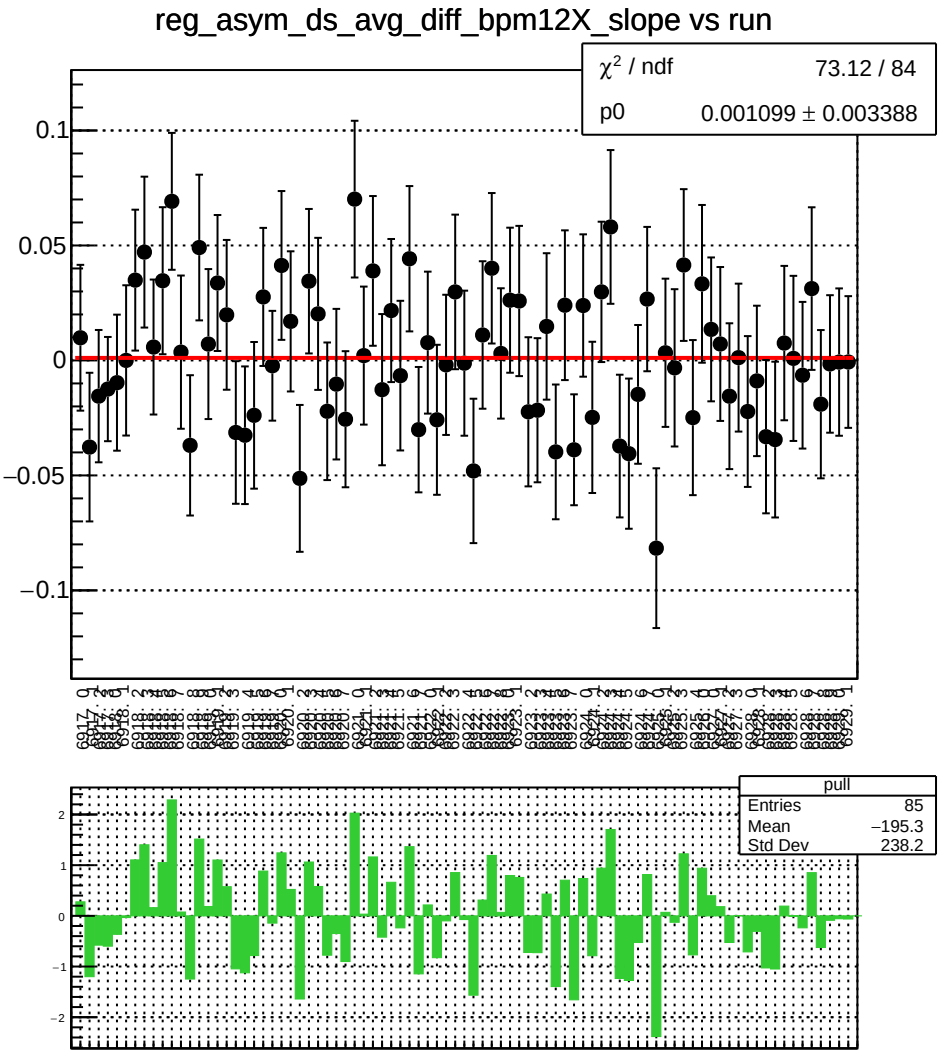

pull1D
Entries 85
Mean −0.0209
Std Dev 0.9869

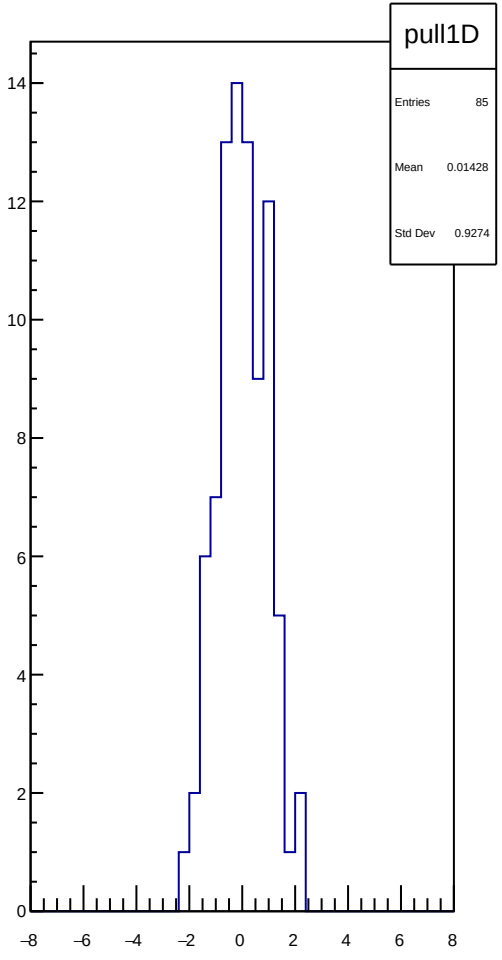

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.07 / 84
p0 0.007351 ± 0.09485
pull
Entries 85
Mean 263.8
Std Dev 214.8

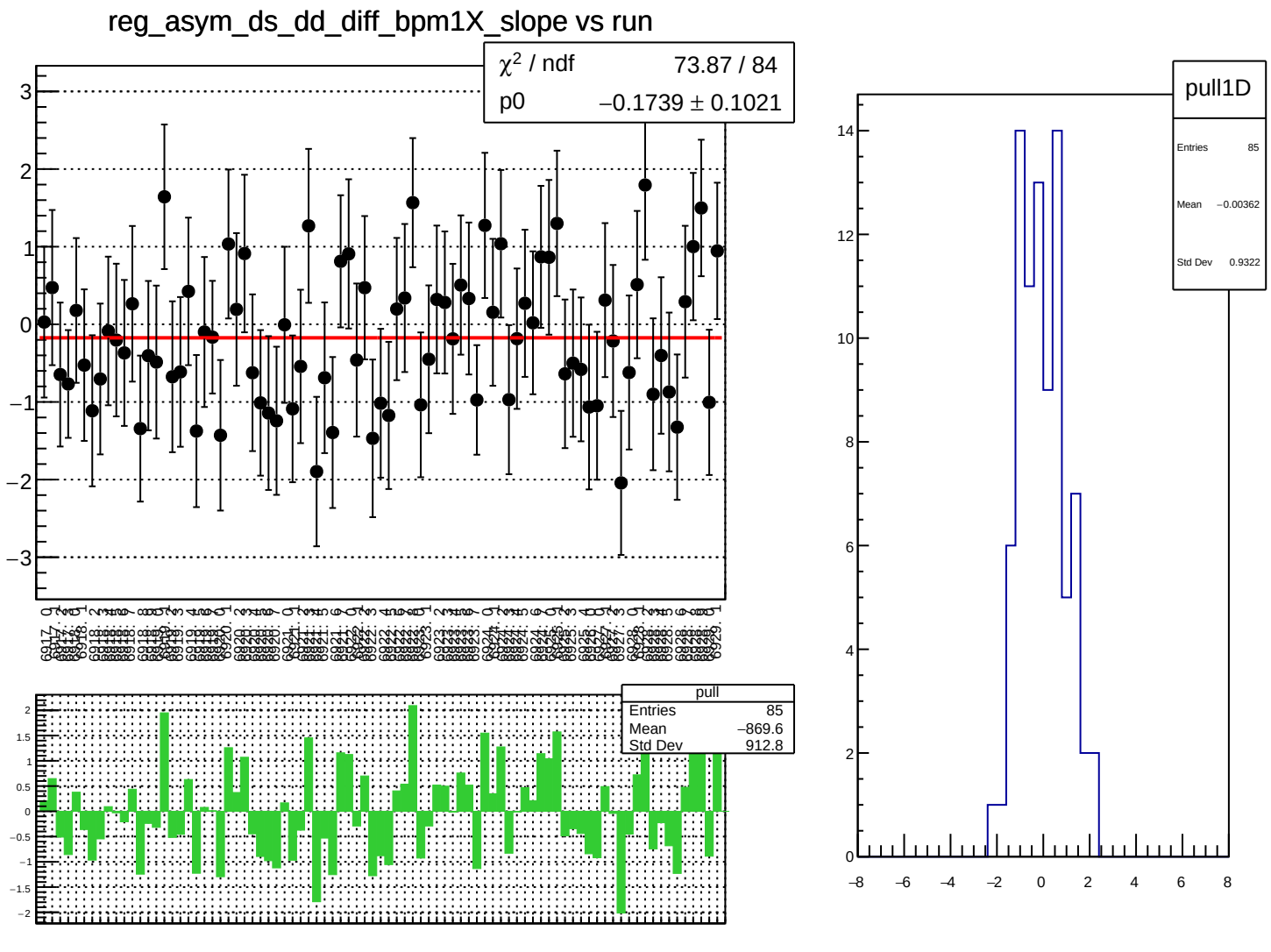

pull1D
Entries 85
Mean −0.0085
Std Dev 1.069

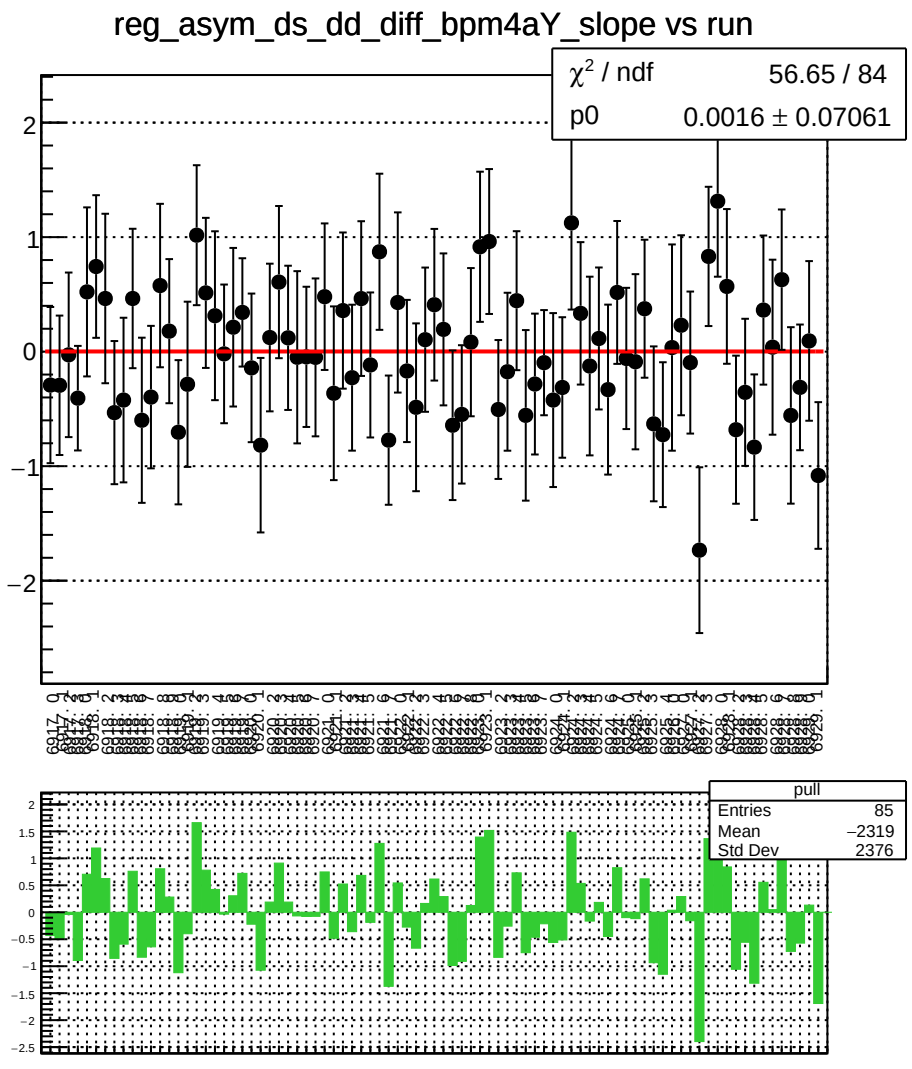

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.99 / 84
p0 0.09447 ± 0.08009
pull
Entries 85
Mean −44.16
Std Dev 107

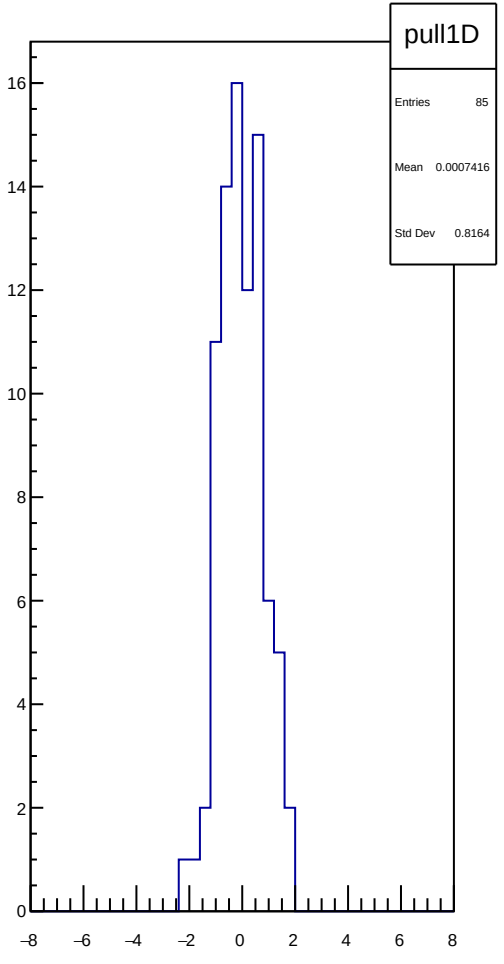

pull1D
Entries 85
Mean 0.01655
Std Dev 0.976

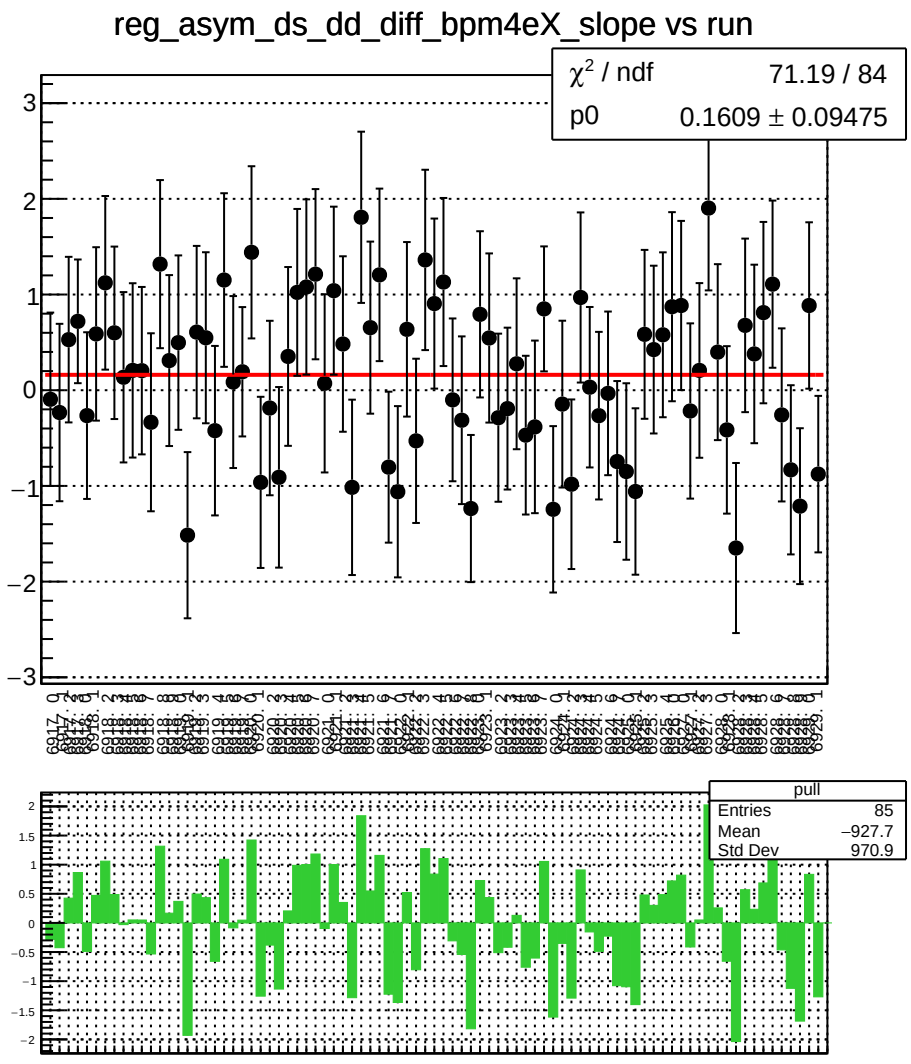

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 73.12 / 84
p0 0.001099 ± 0.003388
pull
Entries 85
Mean −195.3
Std Dev 238.2

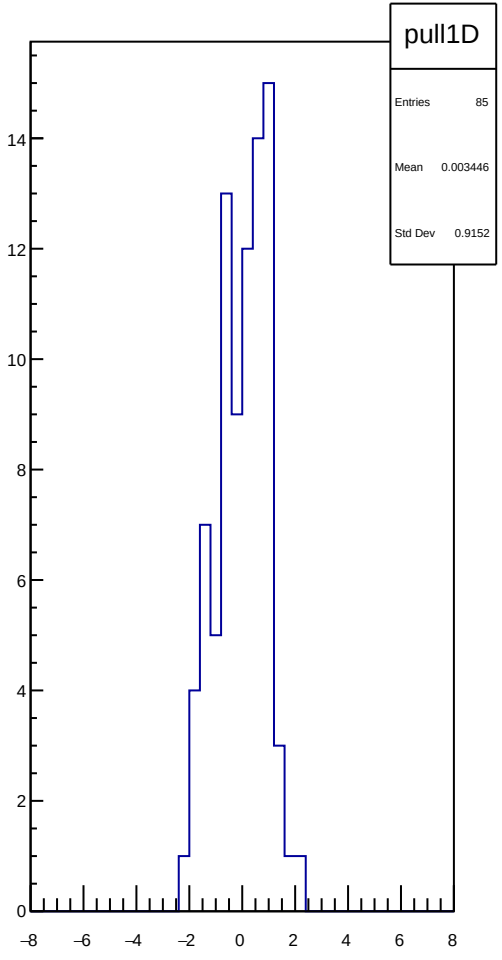

pull1D
Entries 85
Mean 0.01428
Std Dev 0.9274

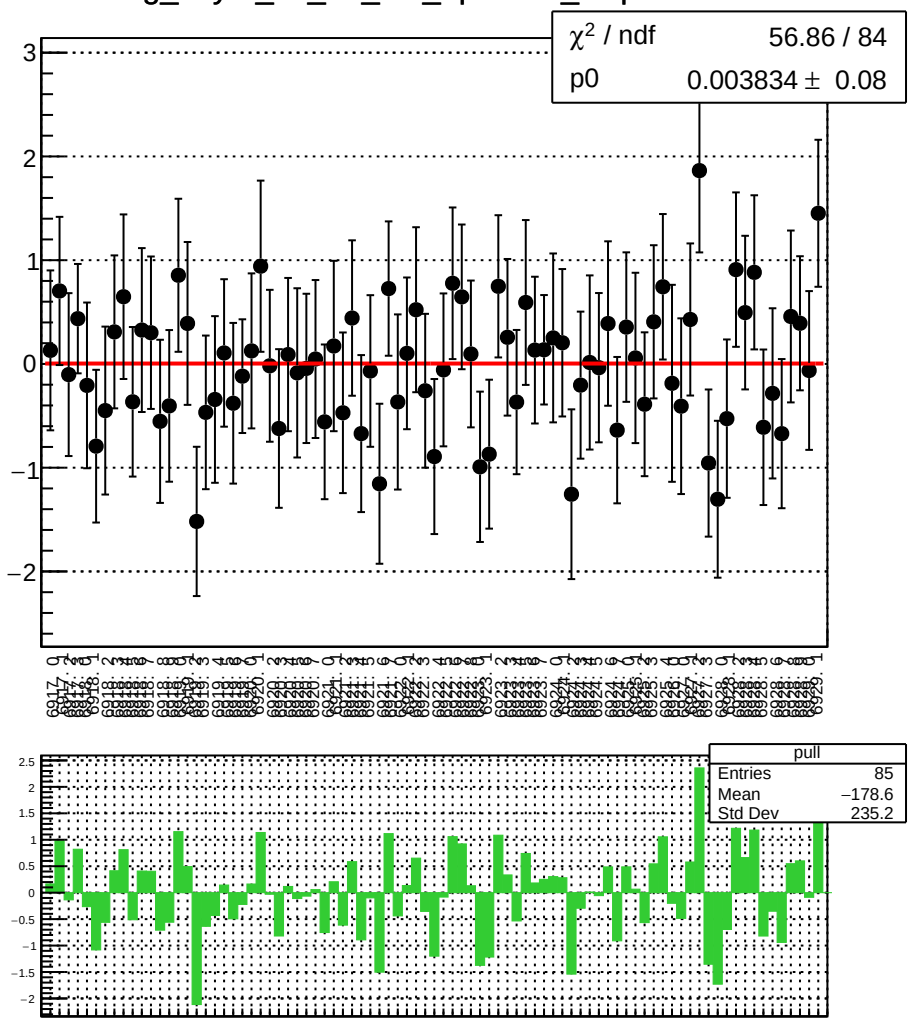

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 73.87 / 84
p0 −0.1739 ± 0.1021
pull
Entries 85
Mean −869.6
Std Dev 912.8
pull1D
Entries 85
Mean −0.00362
Std Dev 0.9322

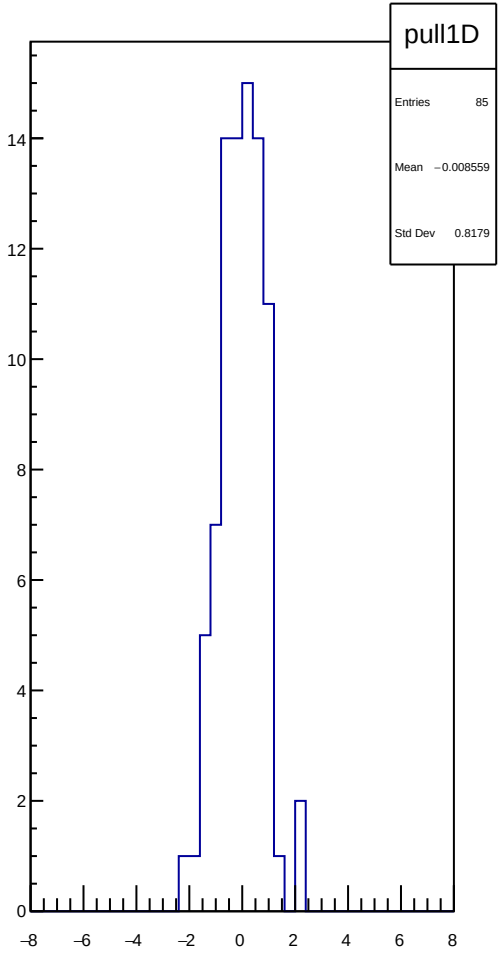

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.65 / 84
p0 0.0016 ± 0.07061
pull
Entries 85
Mean −2319
Std Dev 2376

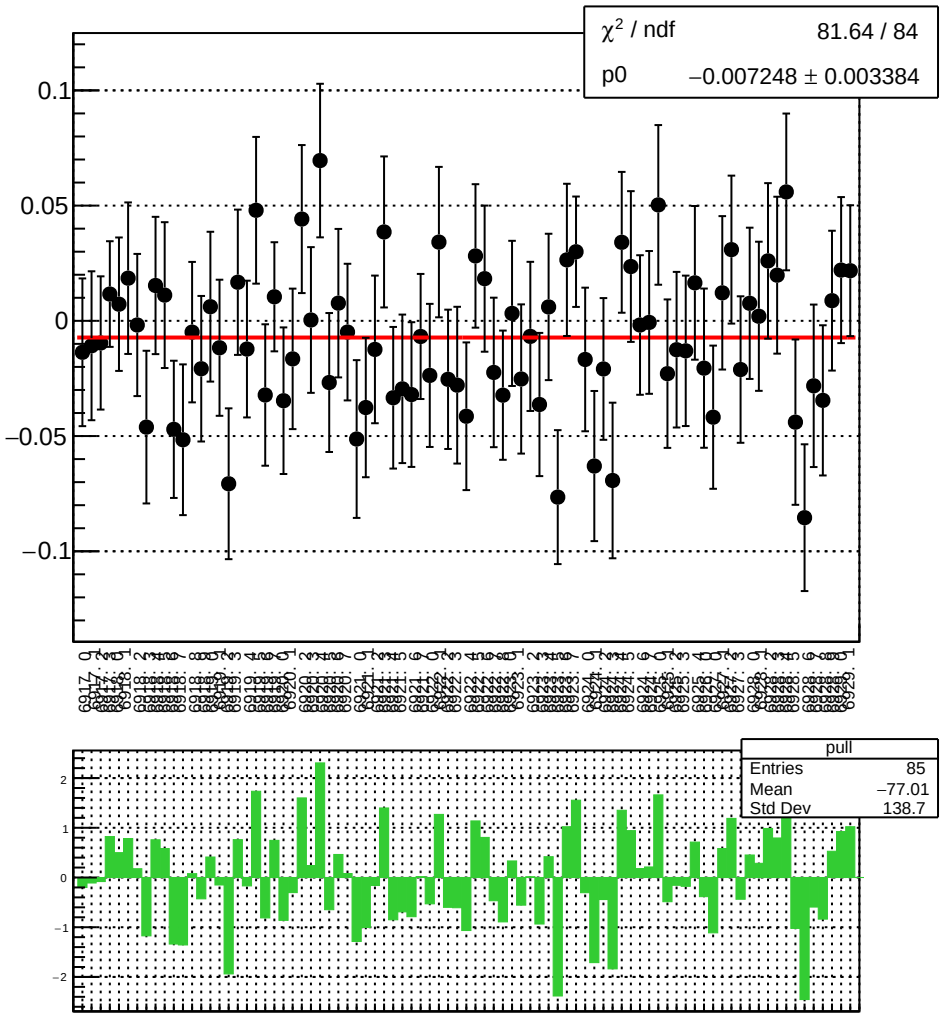

pull1D
Entries 85
Mean 0.0007416
Std Dev 0.8164

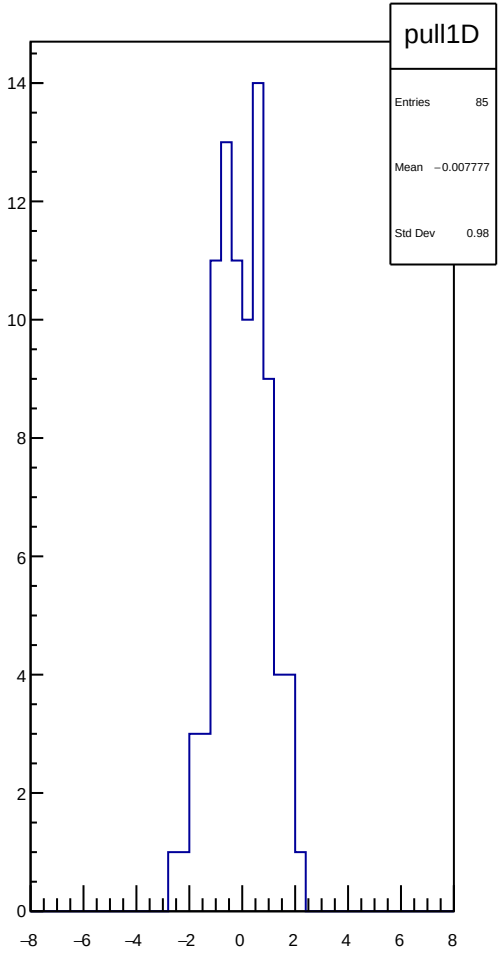

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.19 / 84
p0 0.1609 ± 0.09475
pull
Entries 85
Mean −927.7
Std Dev 970.9

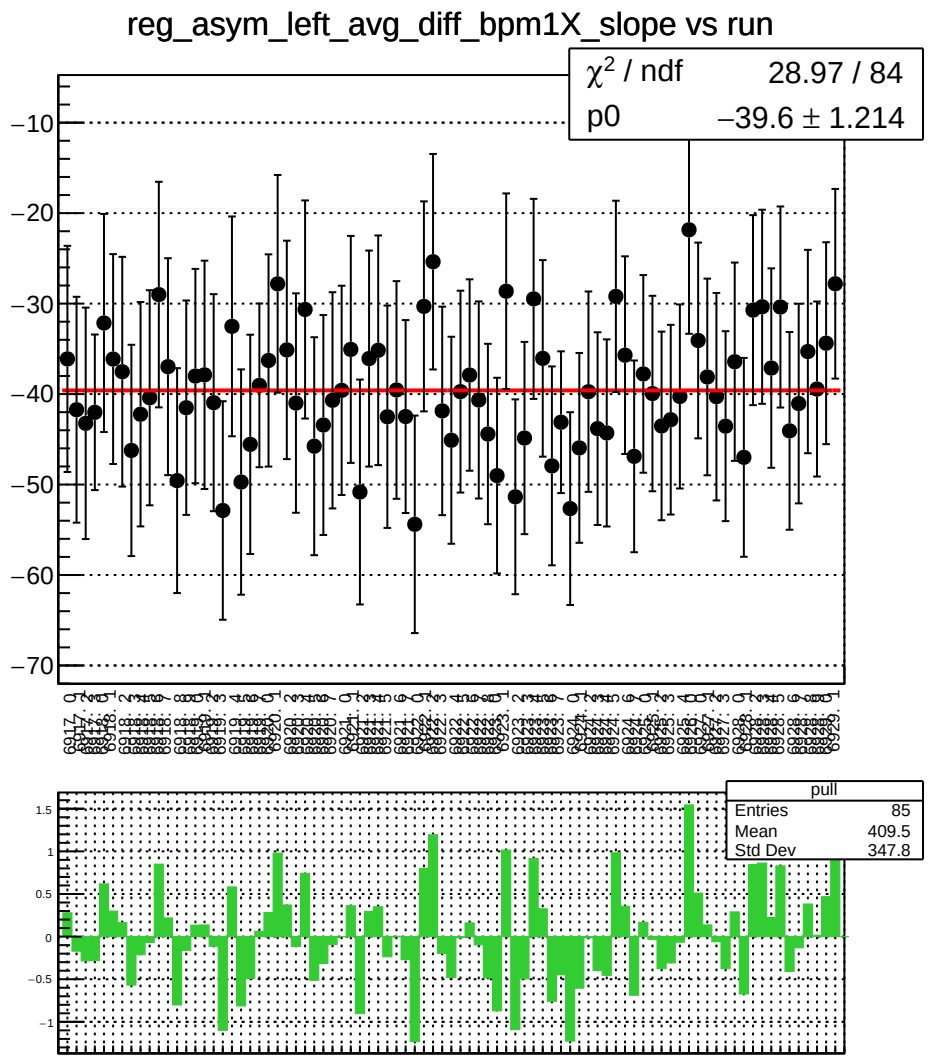

pull1D
Entries 85
Mean 0.003446
Std Dev 0.9152

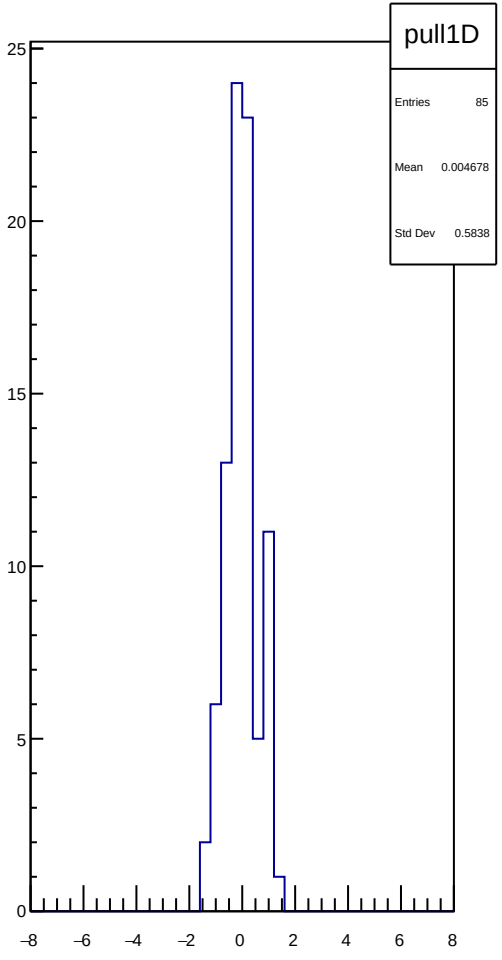

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.86 / 84
p0 0.003834 ± 0.08
pull
Entries 85
Mean −178.6
Std Dev 235.2

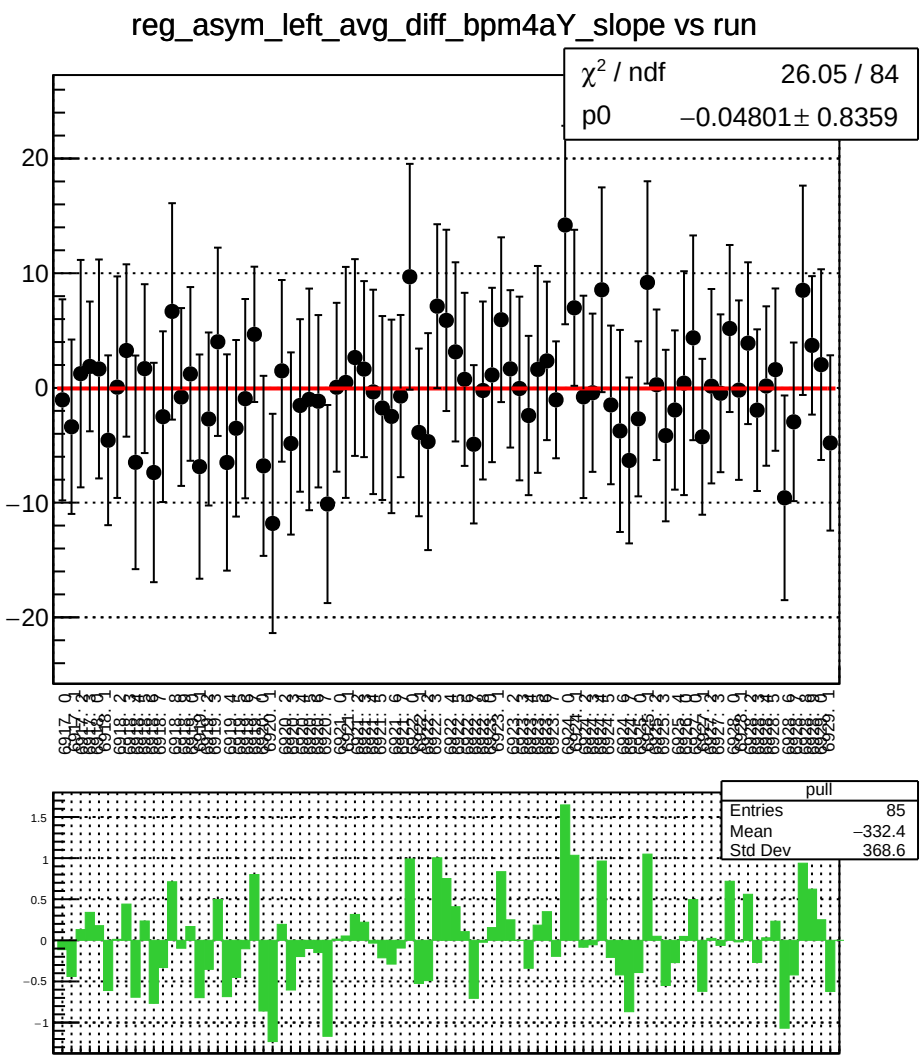

pull1D
Entries 85
Mean −0.008559
Std Dev 0.8179

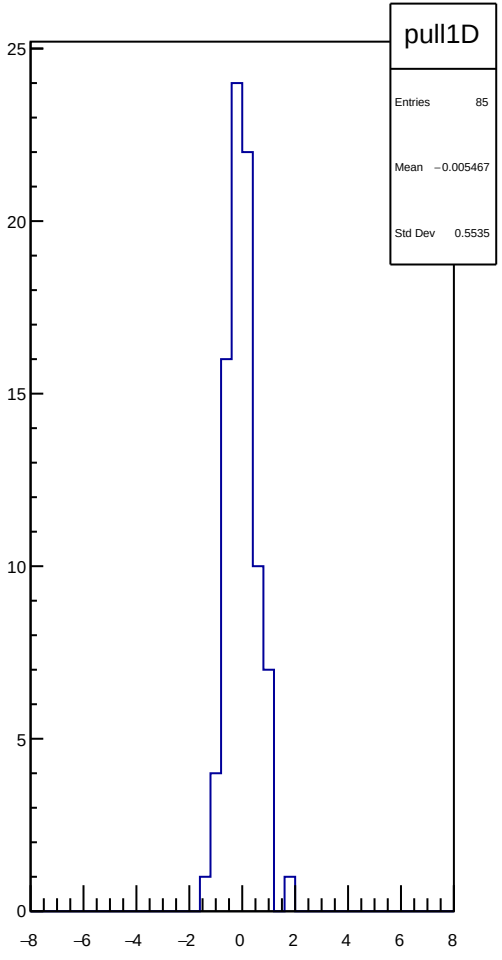

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 81.64 / 84
p0 −0.007248 ± 0.003384
pull
Entries 85
Mean −77.01
Std Dev 138.7

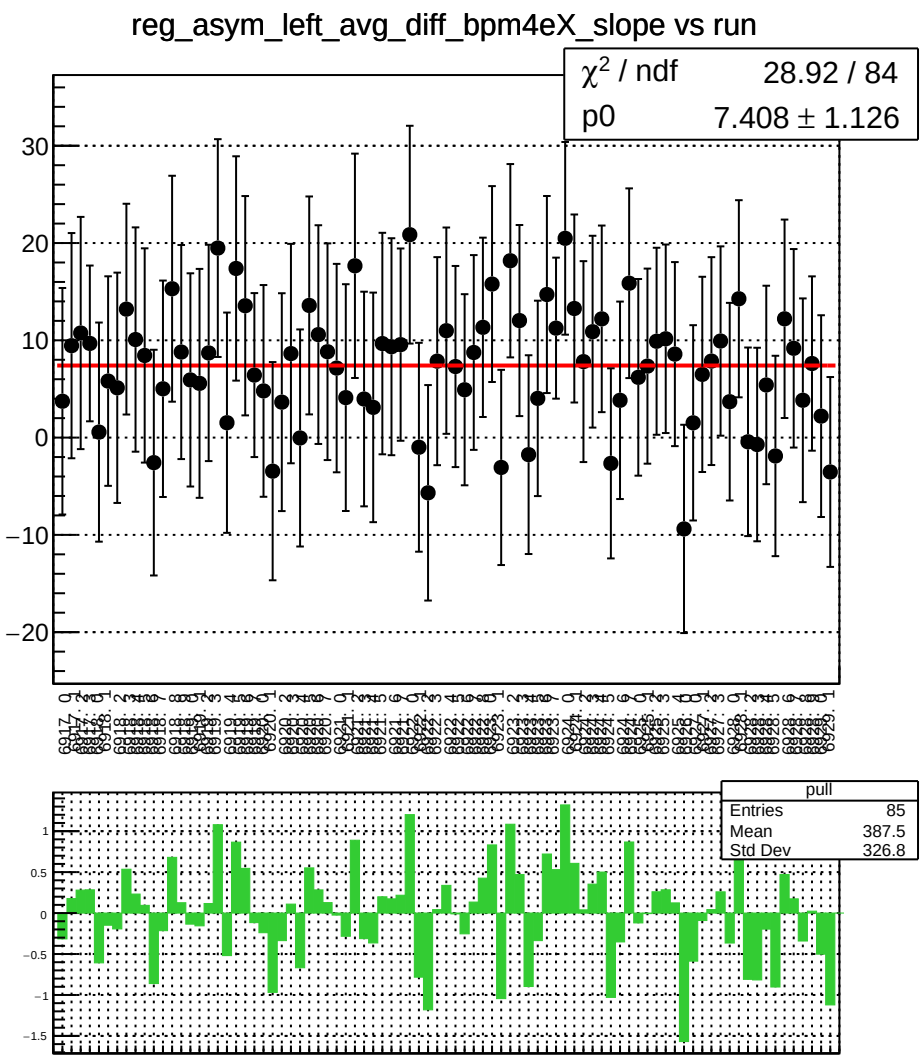

pull1D
Entries 85
Mean −0.007777
Std Dev 0.98

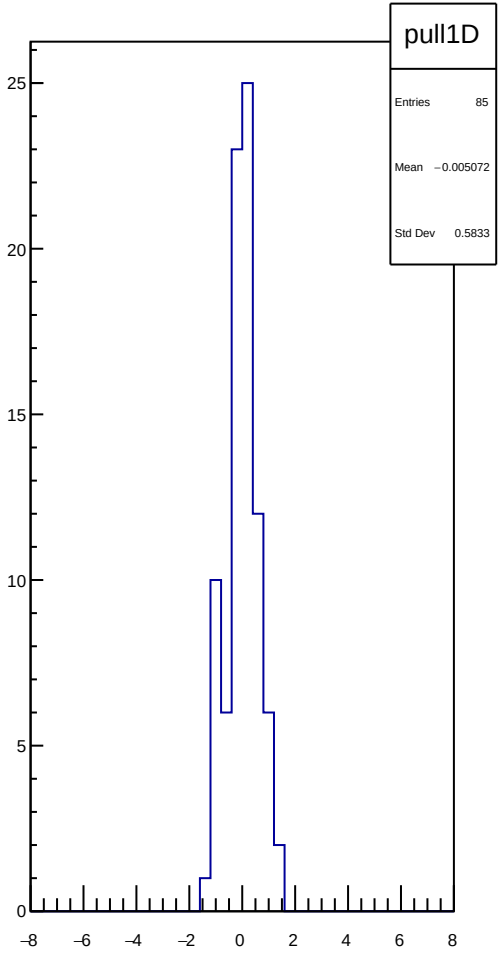

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 28.97 / 84
p0 −39.6 ± 1.214
pull
Entries 85
Mean 409.5
Std Dev 347.8

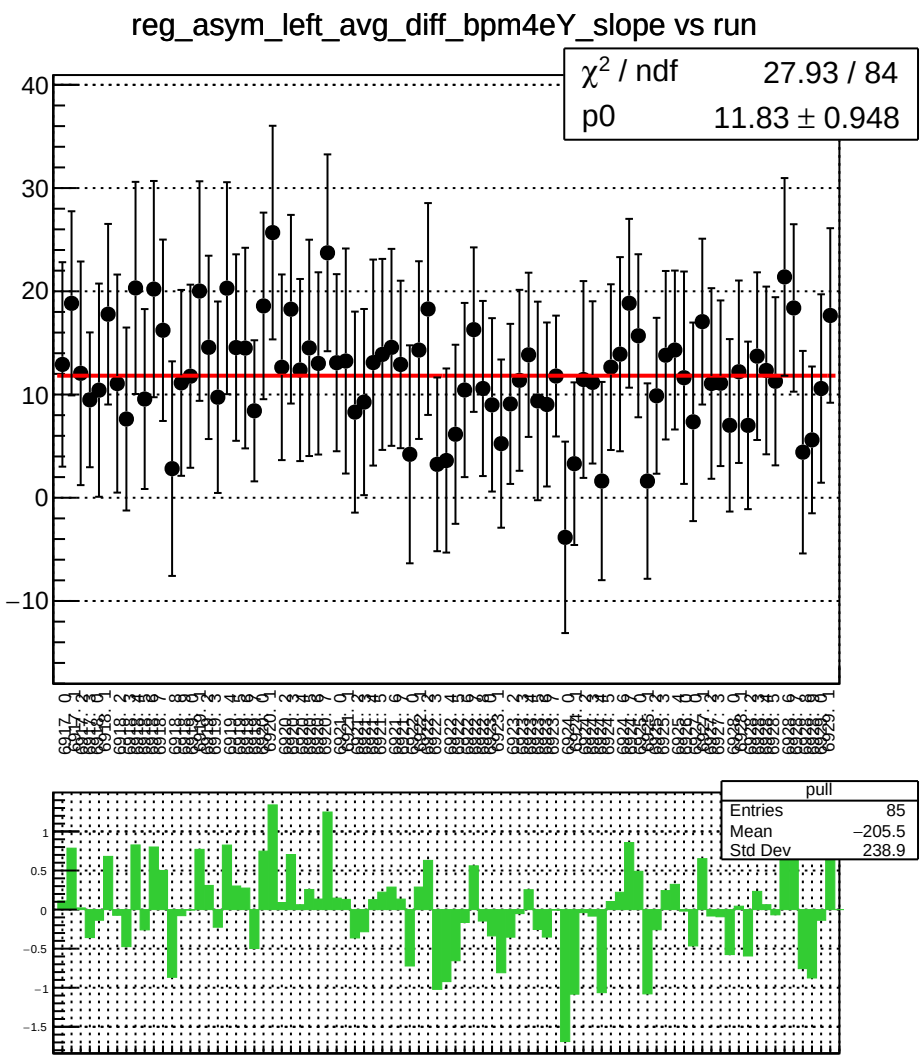

pull1D
Entries 85
Mean 0.004678
Std Dev 0.5838

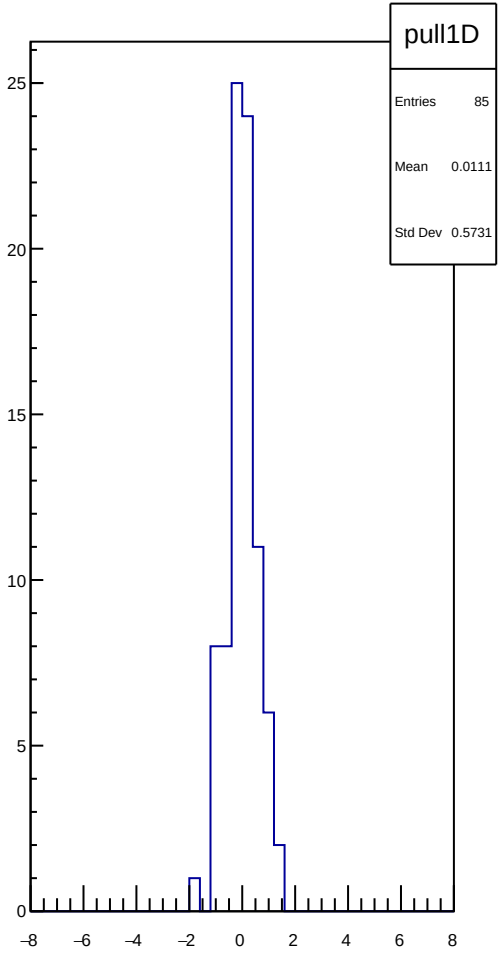

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.05 / 84
p0 −0.04801± 0.8359
pull
Entries 85
Mean −332.4
Std Dev 368.6

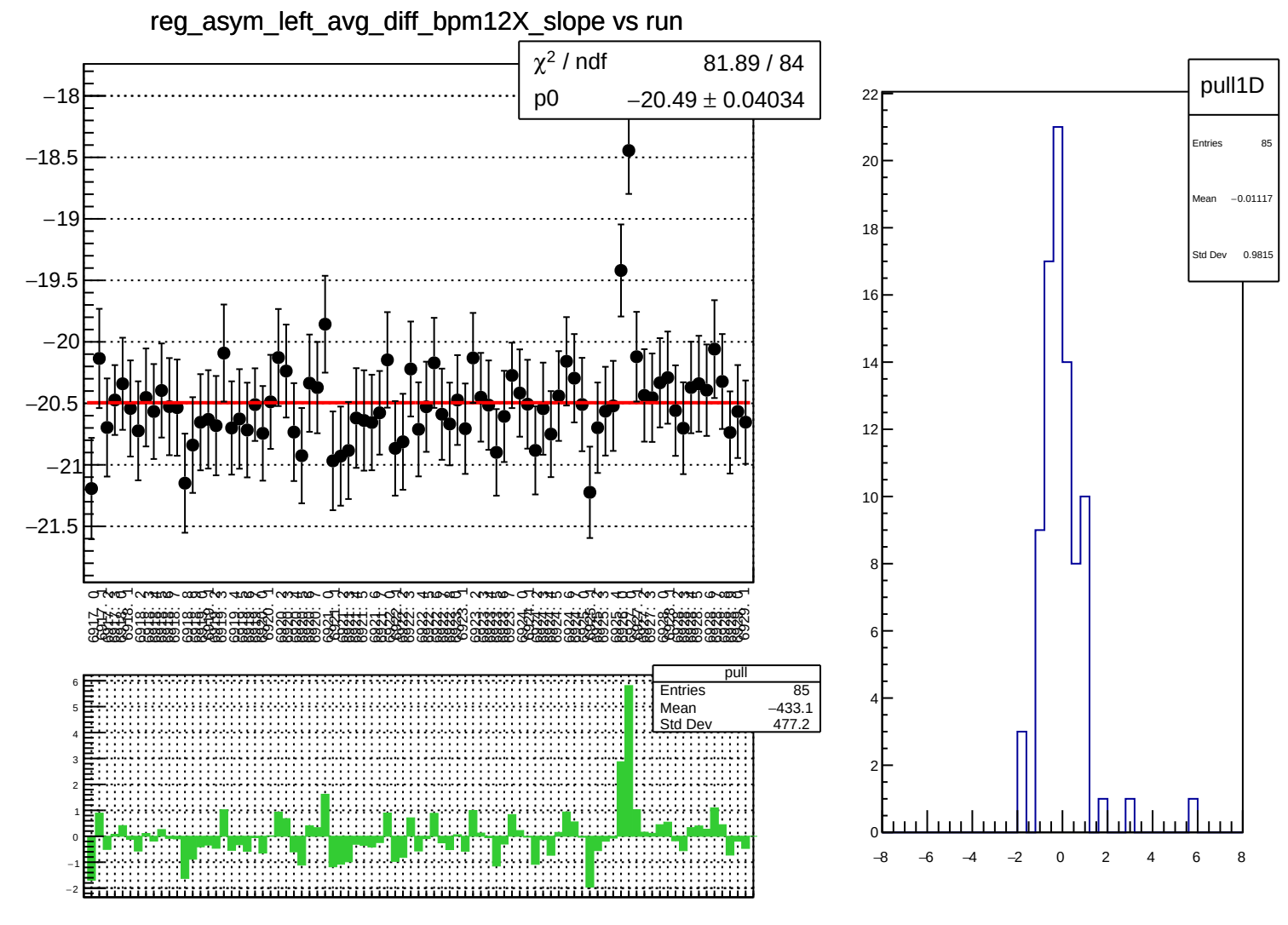

pull1D
Entries 85
Mean −0.005467
Std Dev 0.5535

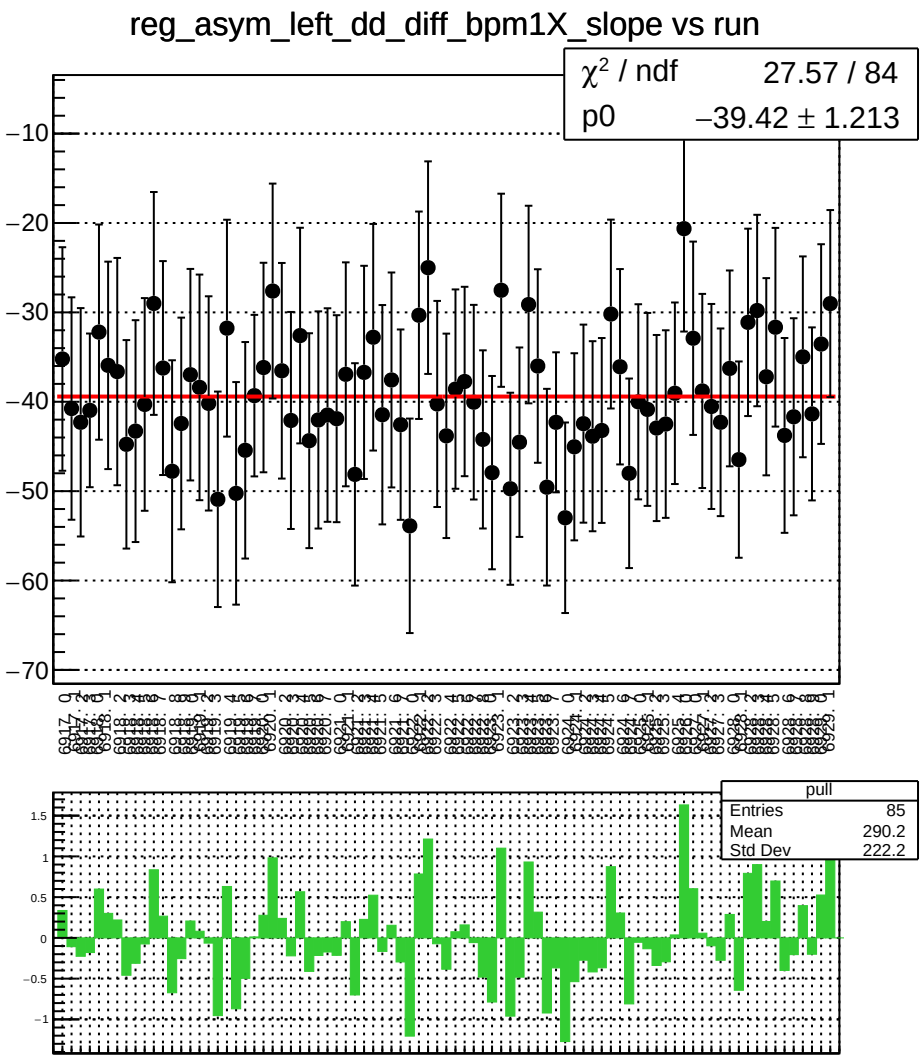

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.92 / 84
p0 7.408 ± 1.126
pull
Entries 85
Mean 387.5
Std Dev 326.8

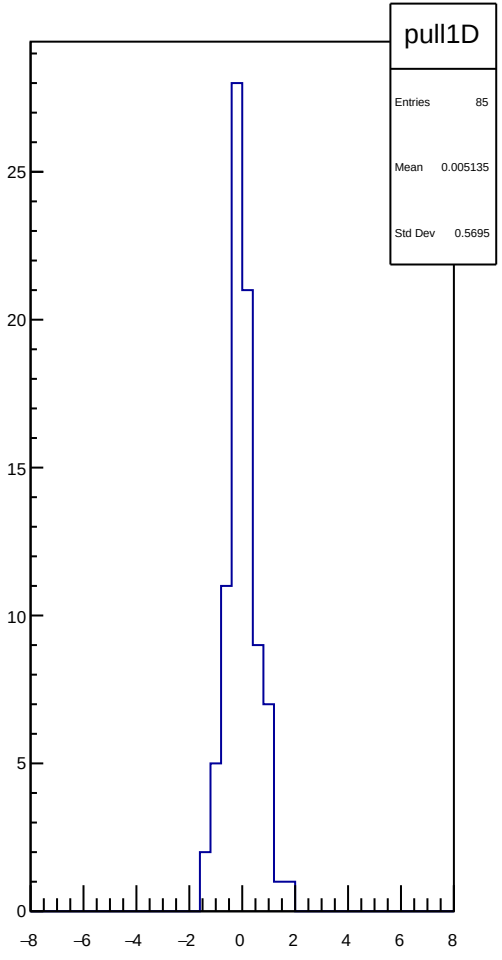

pull1D
Entries 85
Mean −0.005072
Std Dev 0.5833

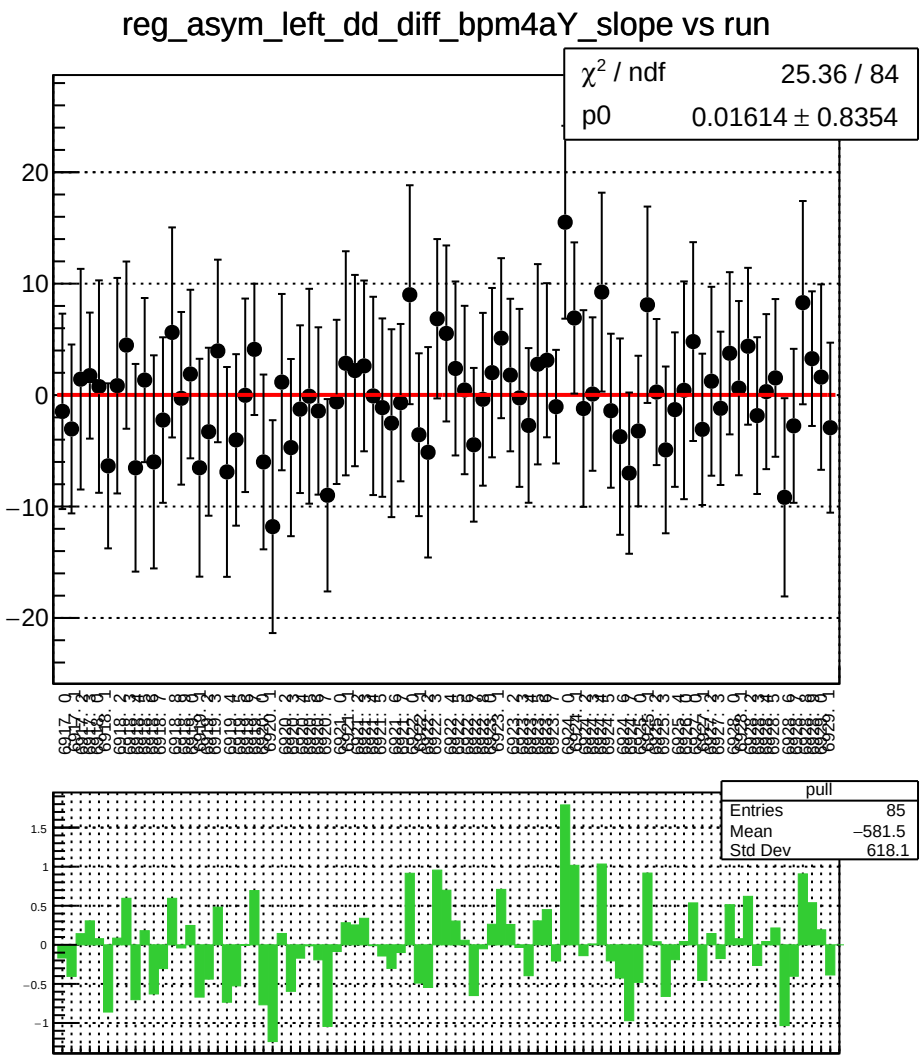

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.93 / 84
p0 11.83 ± 0.948
pull
Entries 85
Mean −205.5
Std Dev 238.9

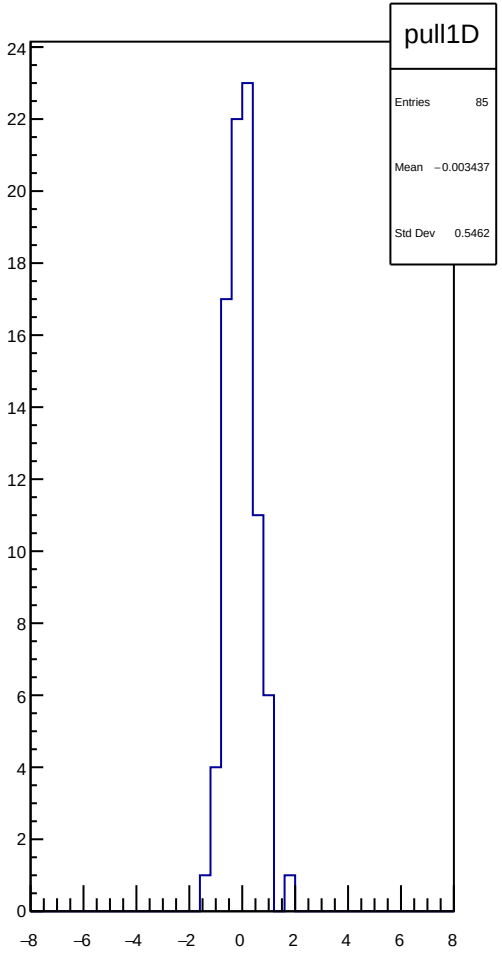

pull1D
Entries 85
Mean 0.0111
Std Dev 0.5731

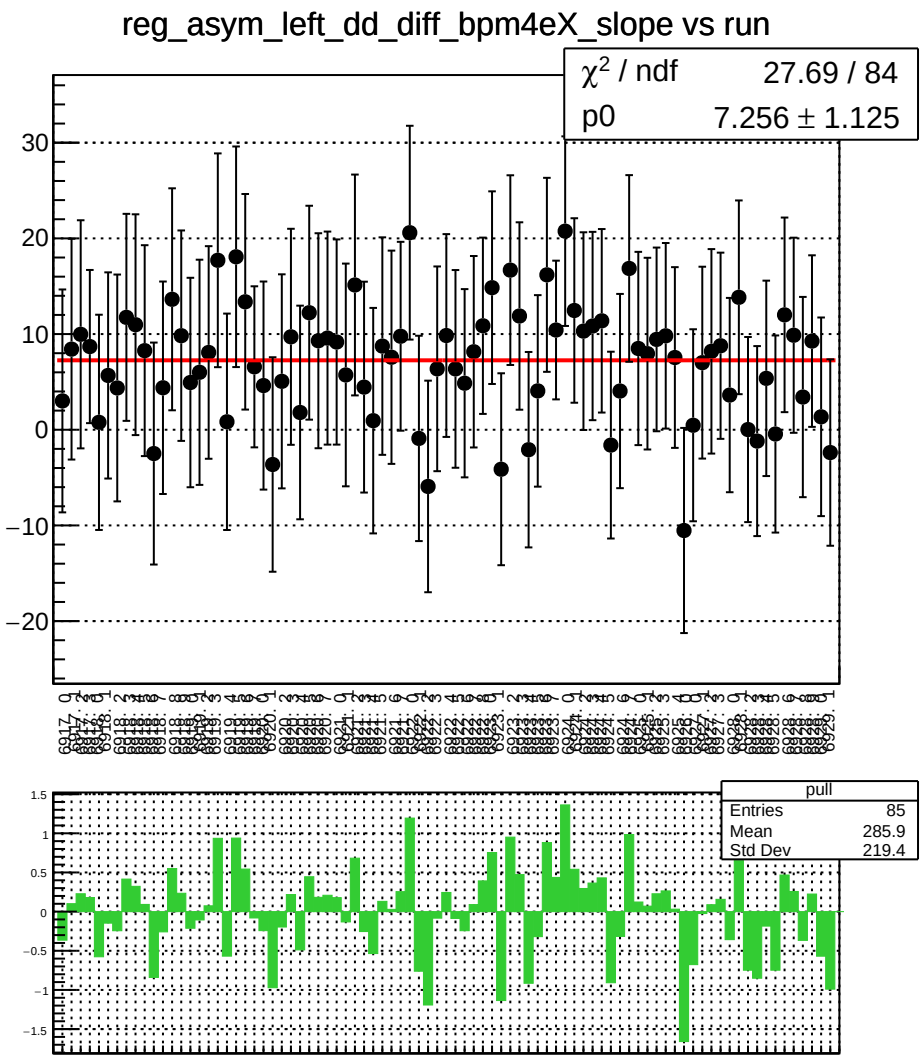

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 81.89 / 84
p0 −20.49 ± 0.04034
pull
Entries 85
Mean −433.1
Std Dev 477.2
pull1D
Entries 85
Mean −0.01117
Std Dev 0.9815

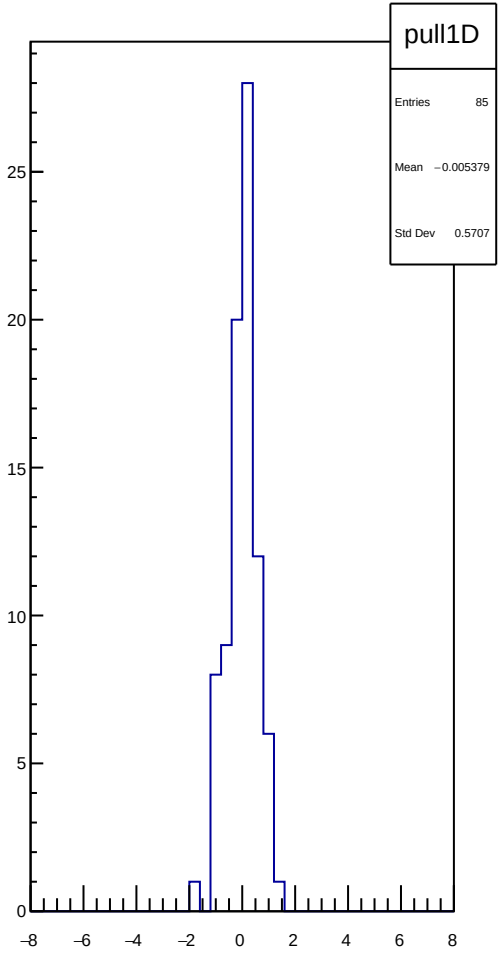

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 27.57 / 84
p0 −39.42 ± 1.213
pull
Entries 85
Mean 290.2
Std Dev 222.2

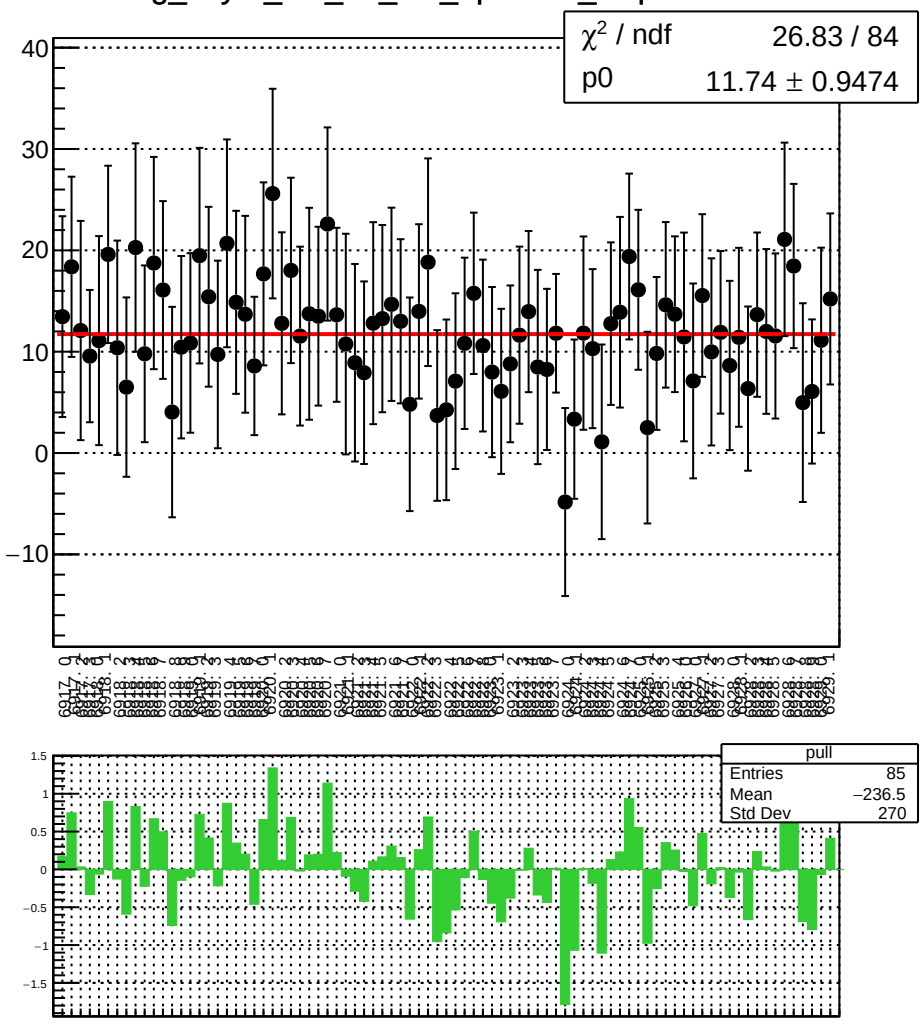

pull1D
Entries 85
Mean 0.005135
Std Dev 0.5695

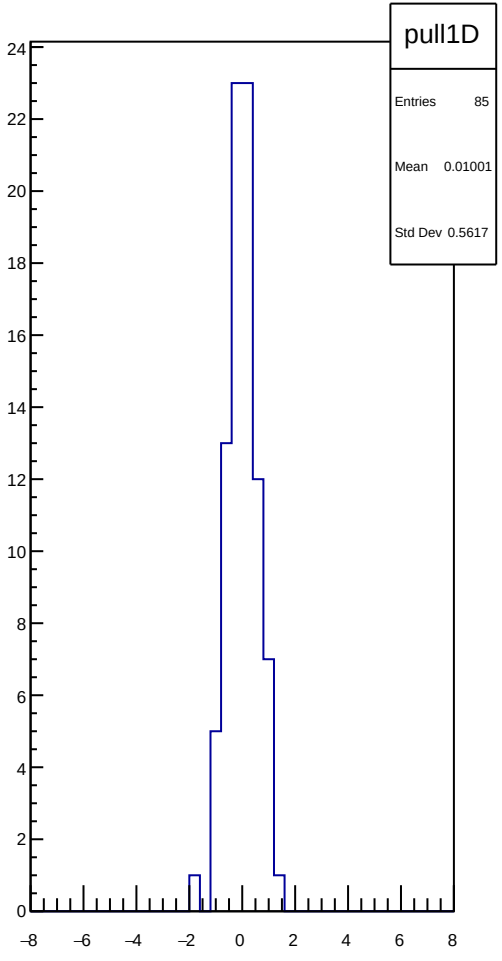

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.36 / 84
p0 0.01614 ± 0.8354
pull
Entries 85
Mean −581.5
Std Dev 618.1

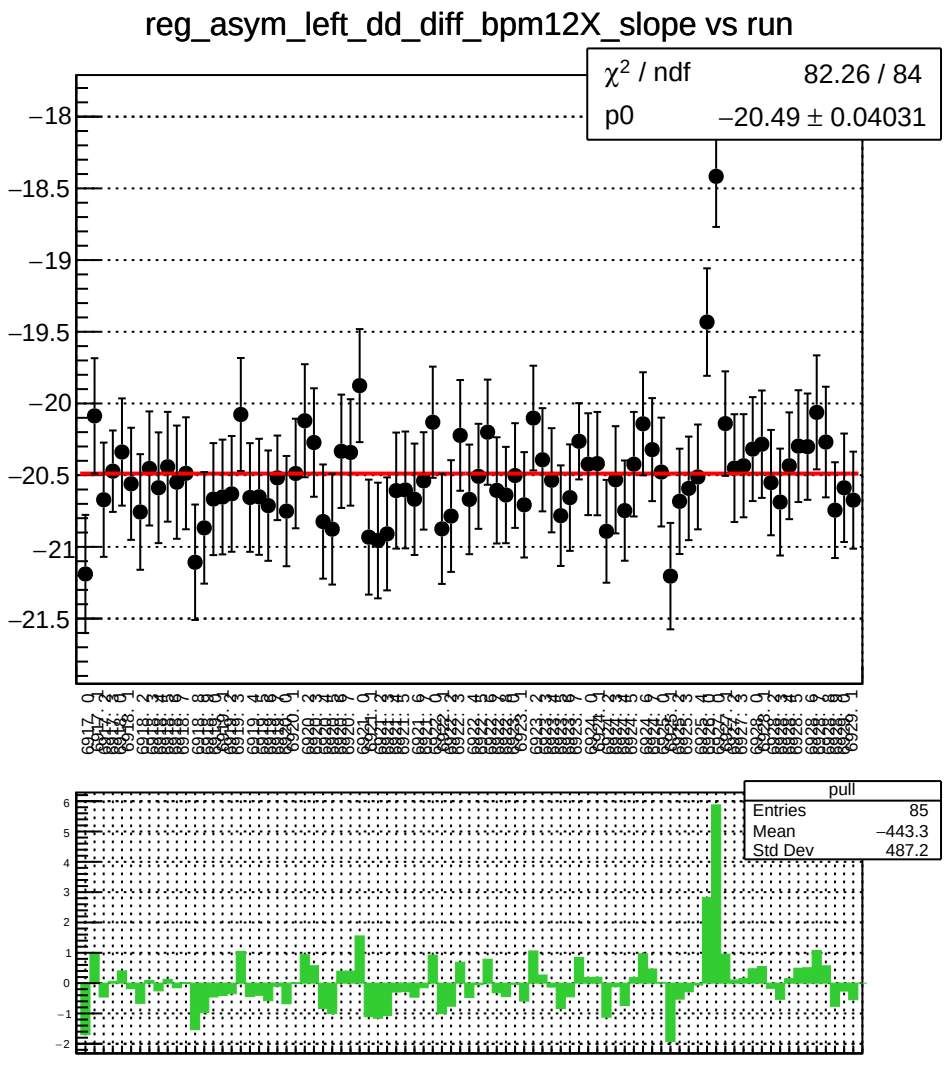

pull1D
Entries 85
Mean −0.003437
Std Dev 0.5462

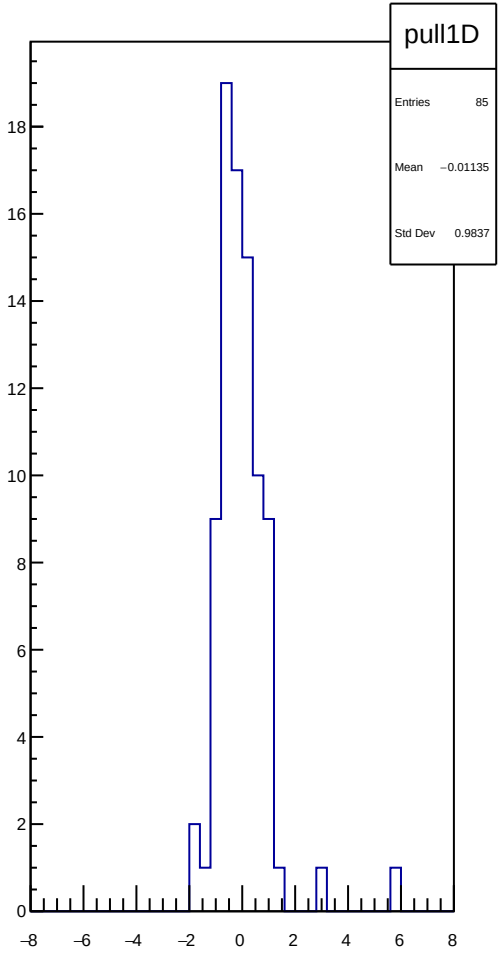

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.69 / 84
p0 7.256 ± 1.125
pull
Entries 85
Mean 285.9
Std Dev 219.4

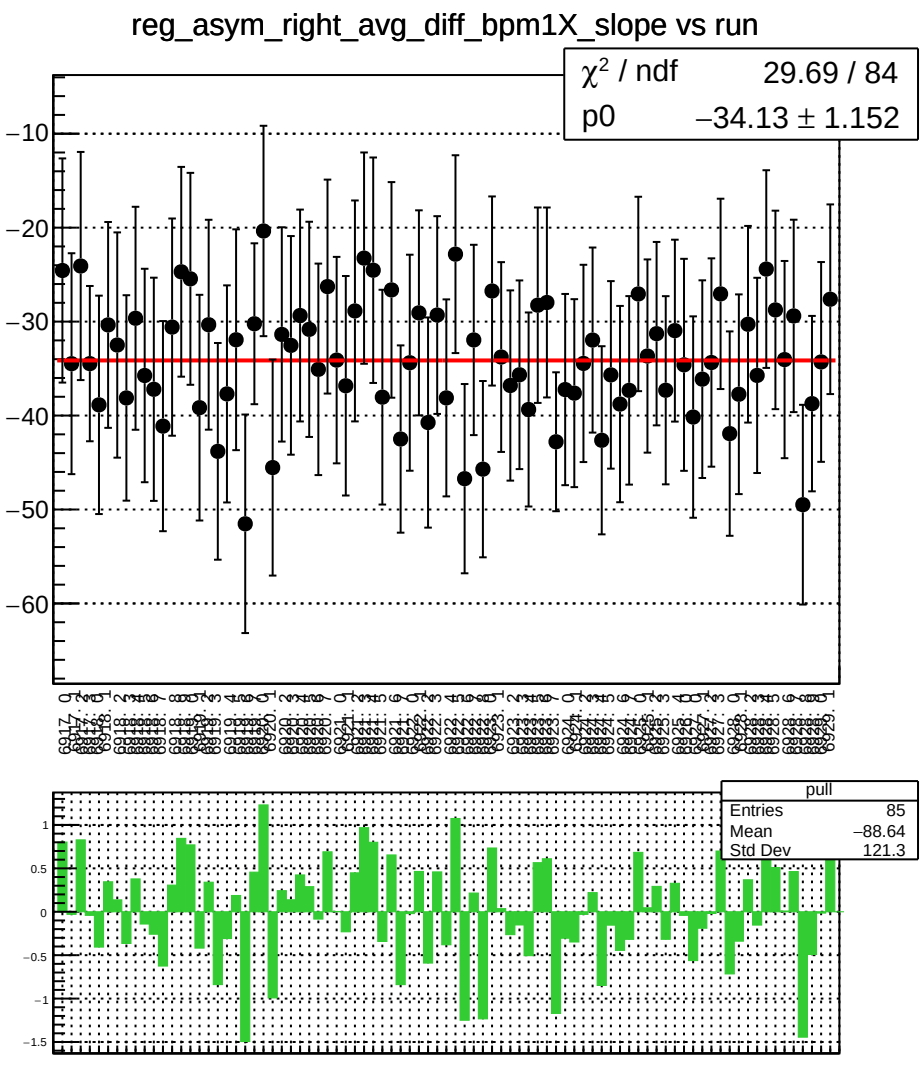

pull1D
Entries 85
Mean −0.005379
Std Dev 0.5707

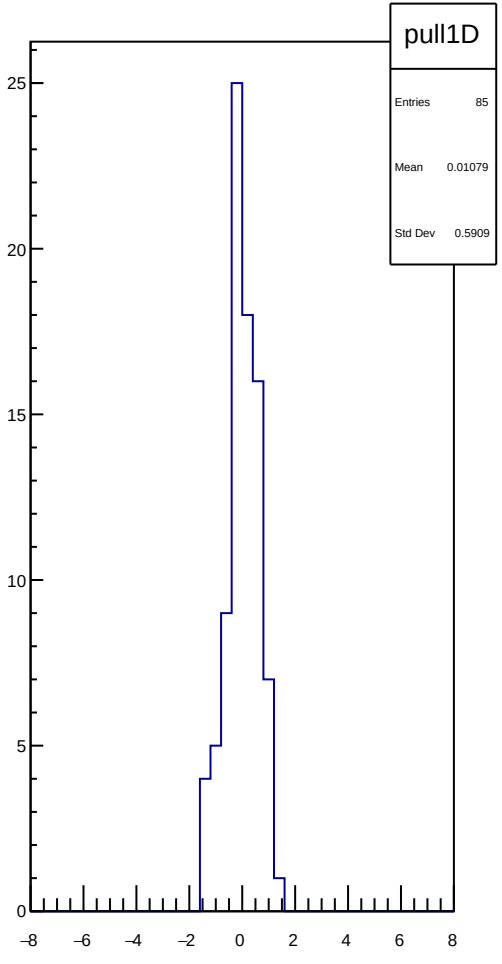

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.83 / 84
p0 11.74 ± 0.9474
pull
Entries 85
Mean −236.5
Std Dev 270

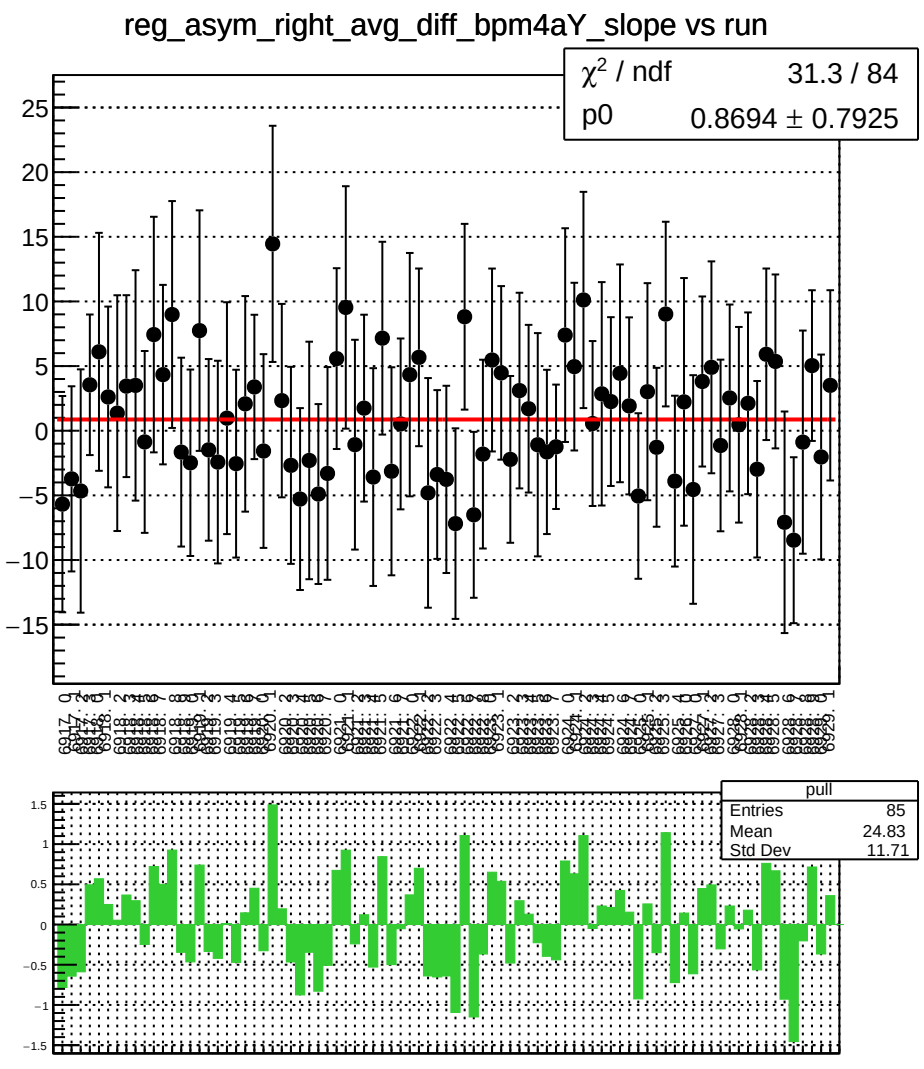

pull1D
Entries 85
Mean 0.01001
Std Dev 0.5617

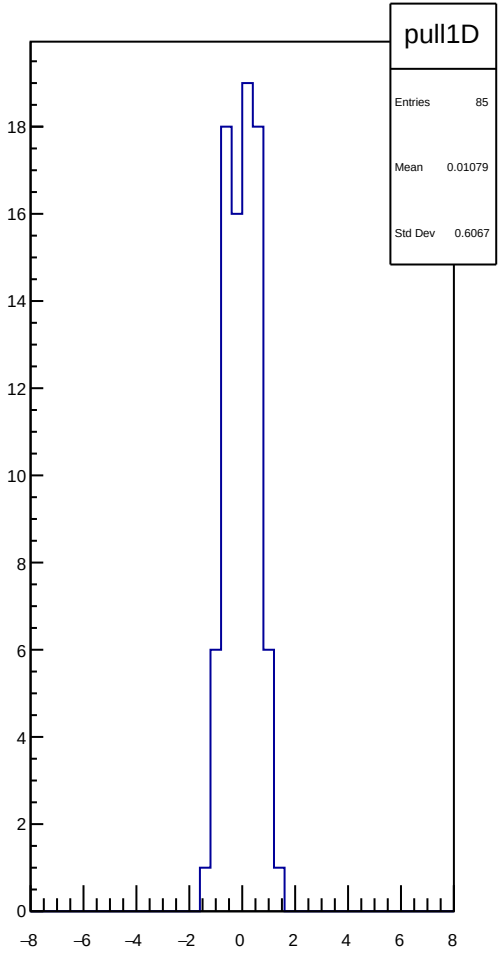

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 82.26 / 84
p0 −20.49 ± 0.04031
pull
Entries 85
Mean −443.3
Std Dev 487.2

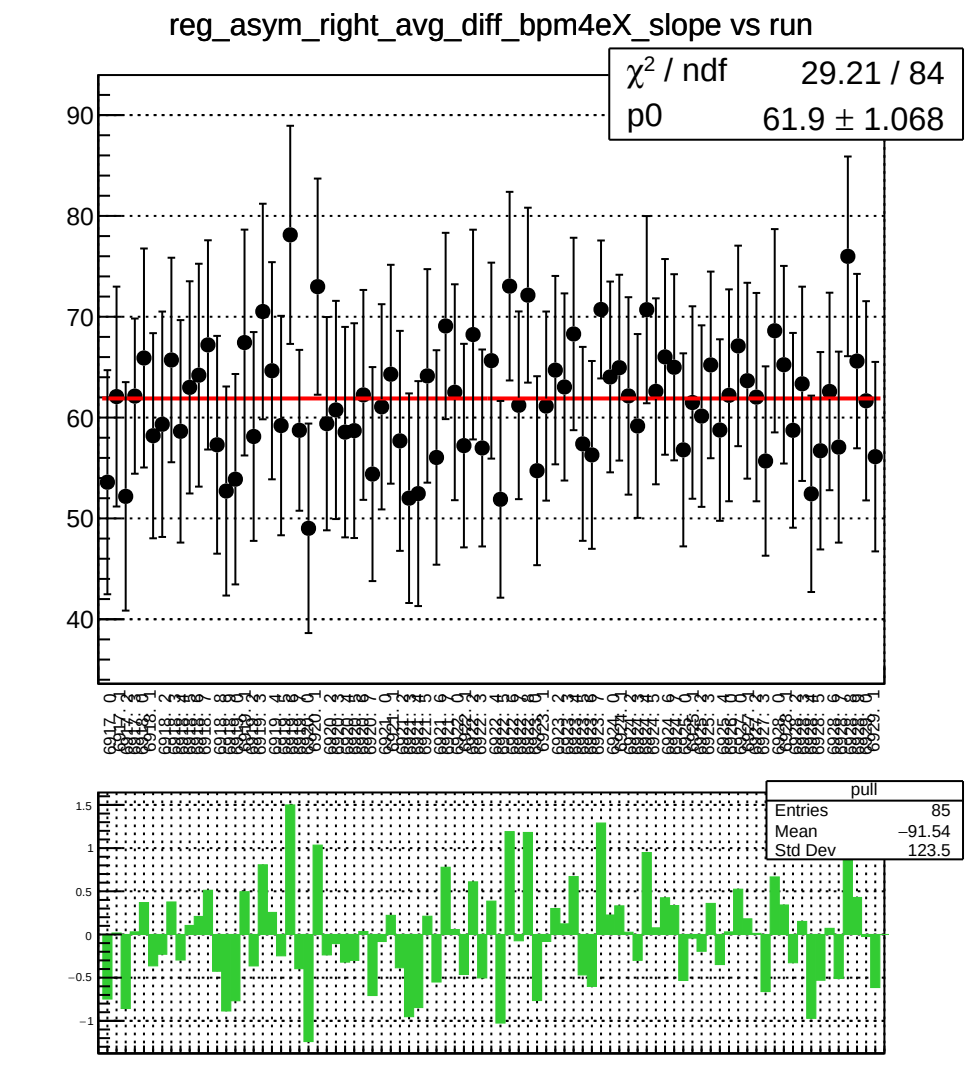

pull1D
Entries 85
Mean −0.01135
Std Dev 0.9837

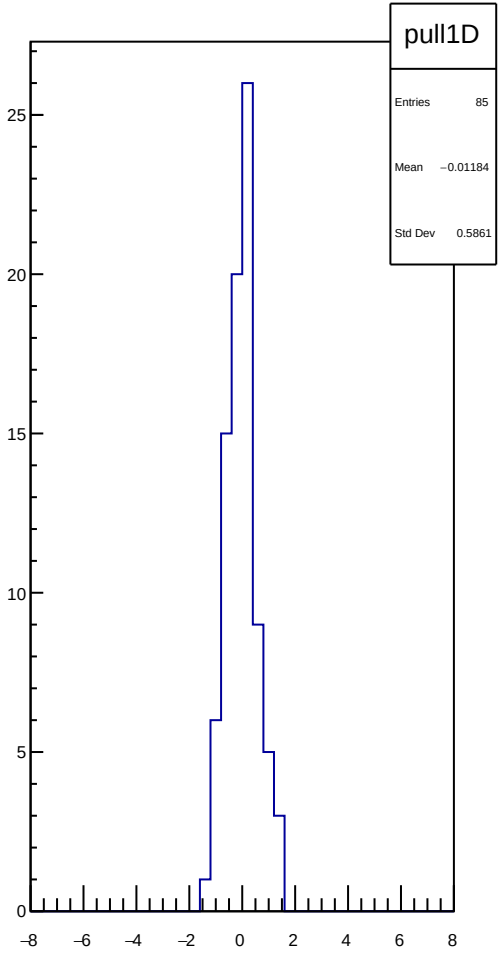

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 29.69 / 84
p0 −34.13 ± 1.152
pull
Entries 85
Mean −88.64
Std Dev 121.3

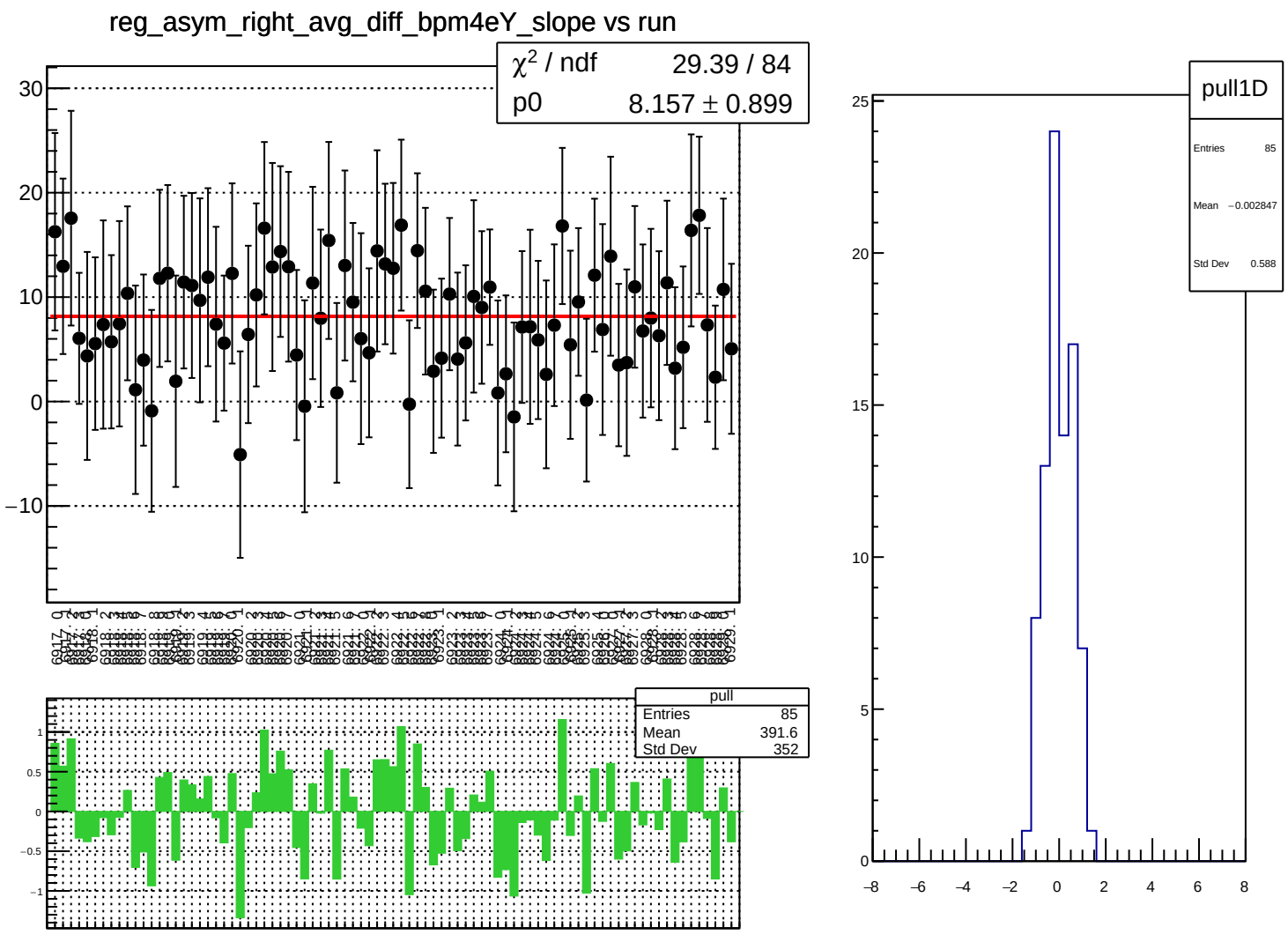

pull1D
Entries 85
Mean 0.01079
Std Dev 0.5909

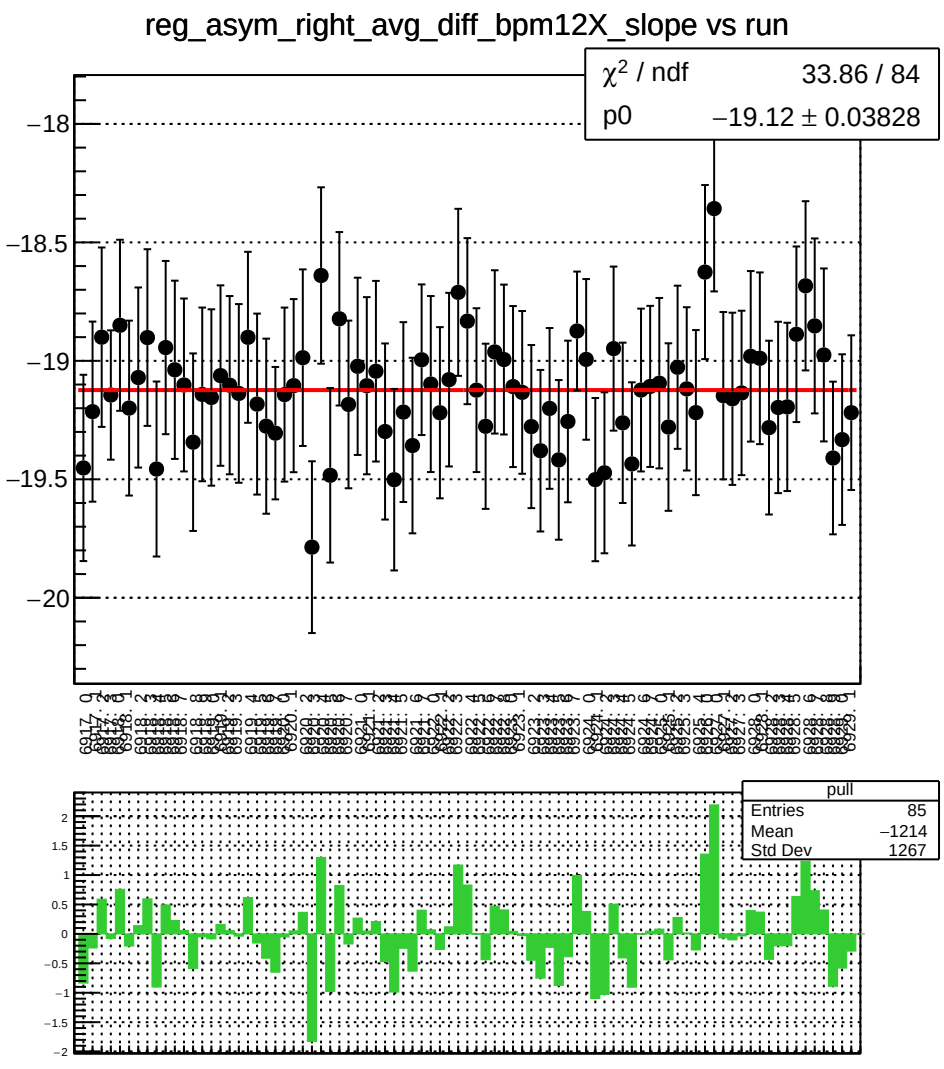

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.3 / 84
p0 0.8694 ± 0.7925
pull
Entries 85
Mean 24.83
Std Dev 11.71

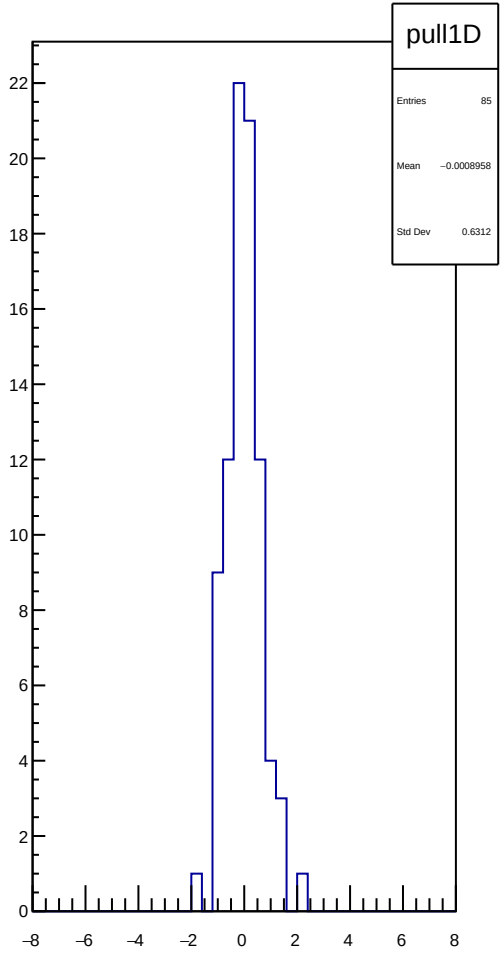

pull1D
Entries 85
Mean 0.01079
Std Dev 0.6067

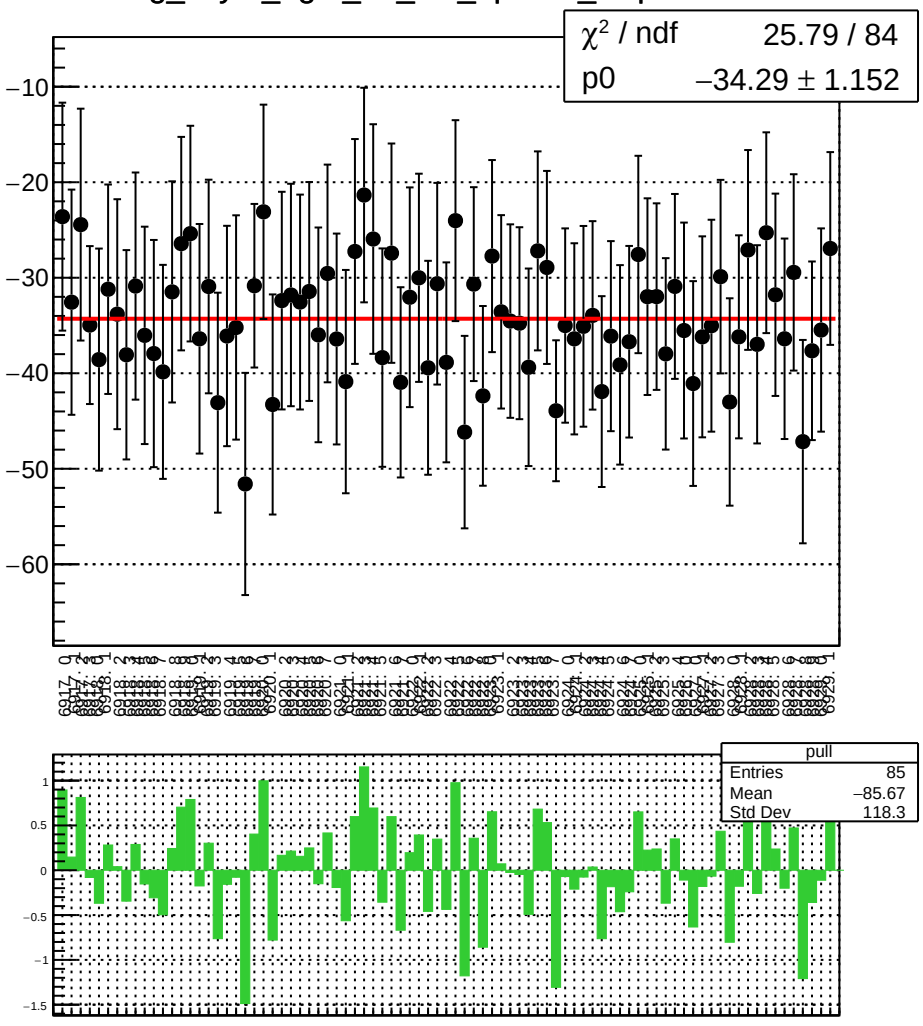

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.21 / 84
p0 61.9 ± 1.068
pull
Entries 85
Mean −91.54
Std Dev 123.5

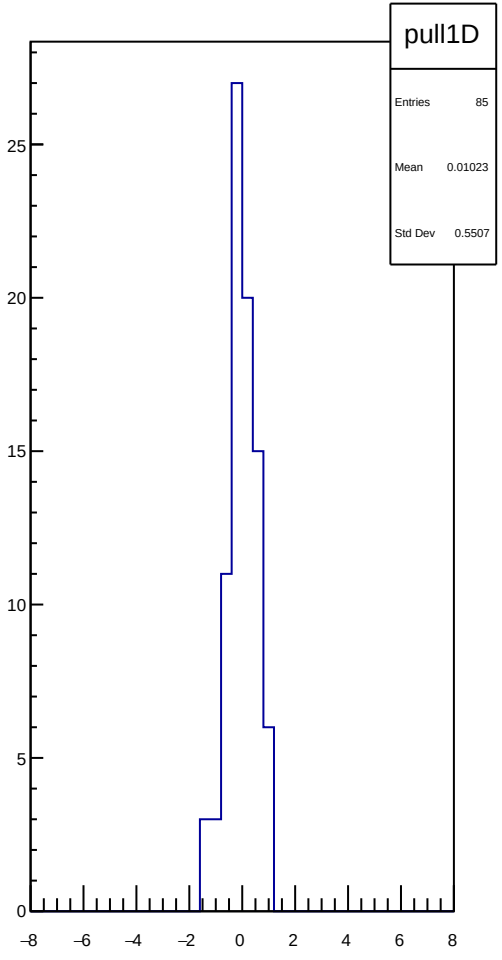

pull1D
Entries 85
Mean −0.01184
Std Dev 0.5861

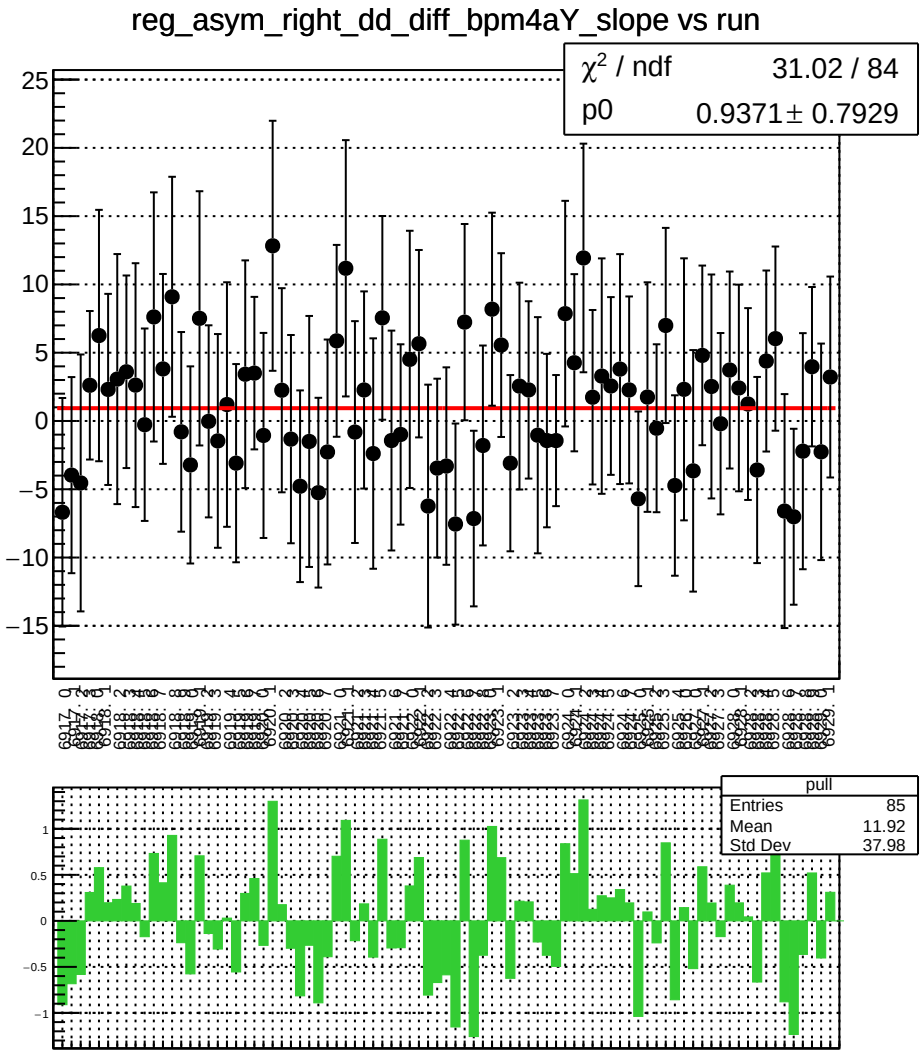

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.39 / 84
p0 8.157 ± 0.899
pull
Entries 85
Mean 391.6
Std Dev 352
pull1D
Entries 85
Mean −0.002847
Std Dev 0.588

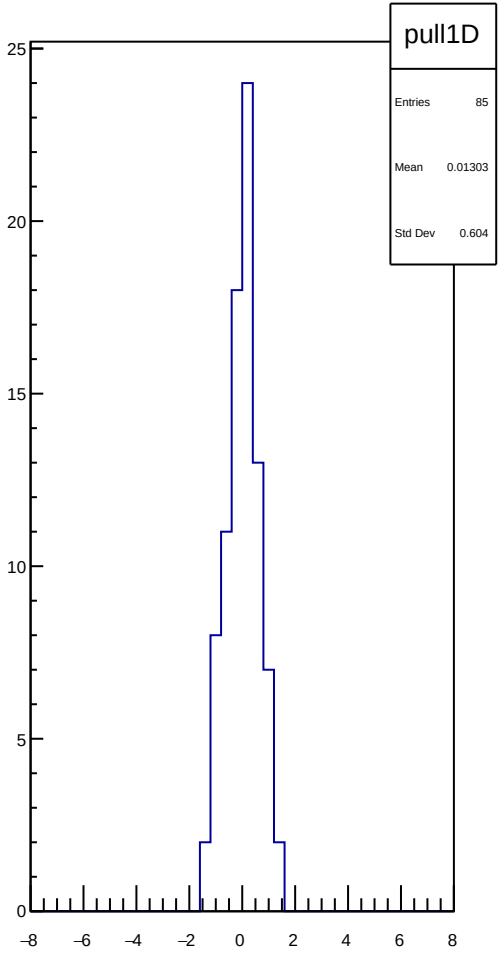

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 33.86 / 84
p0 −19.12 ± 0.03828
−18
−18.5
−19
−19.5
−20
pull
Entries 85
Mean −1214
Std Dev 1267
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

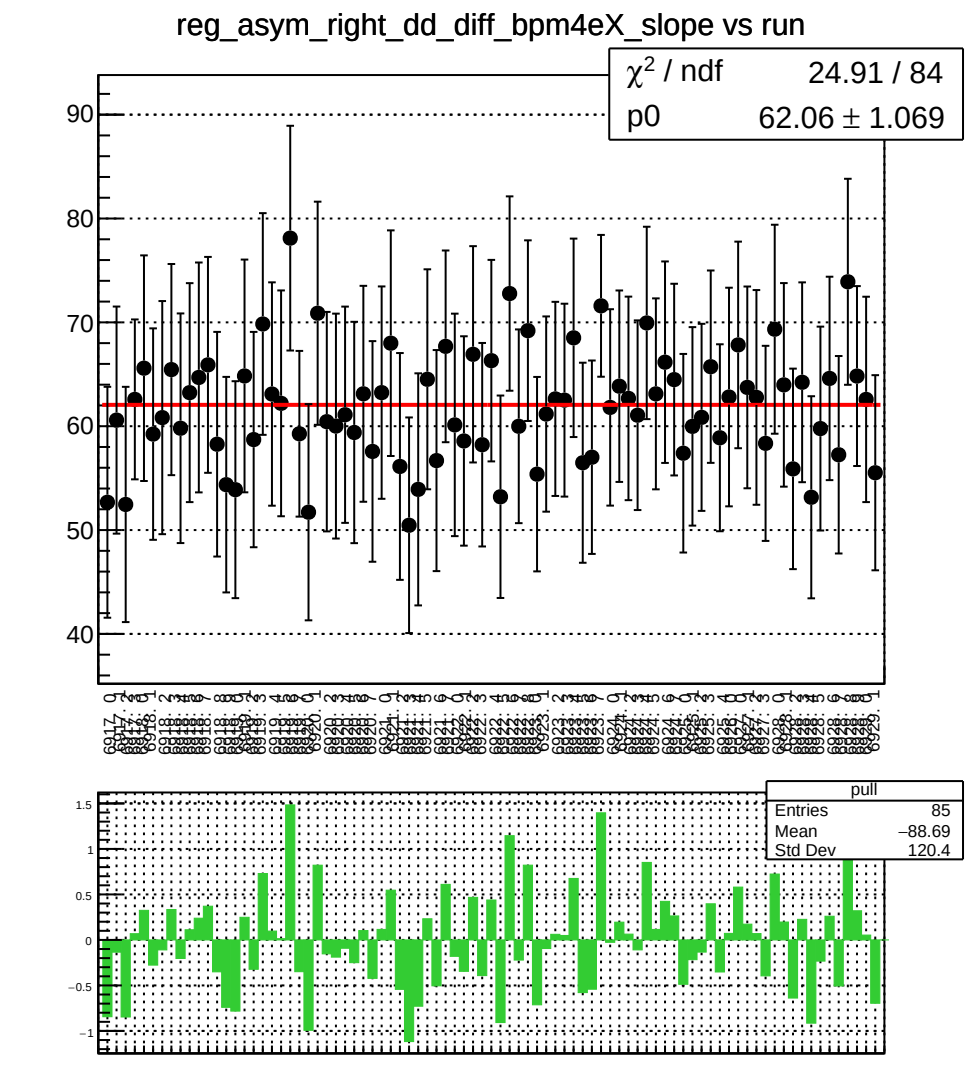

pull1D
Entries 85
Mean −0.0008958
Std Dev 0.6312
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

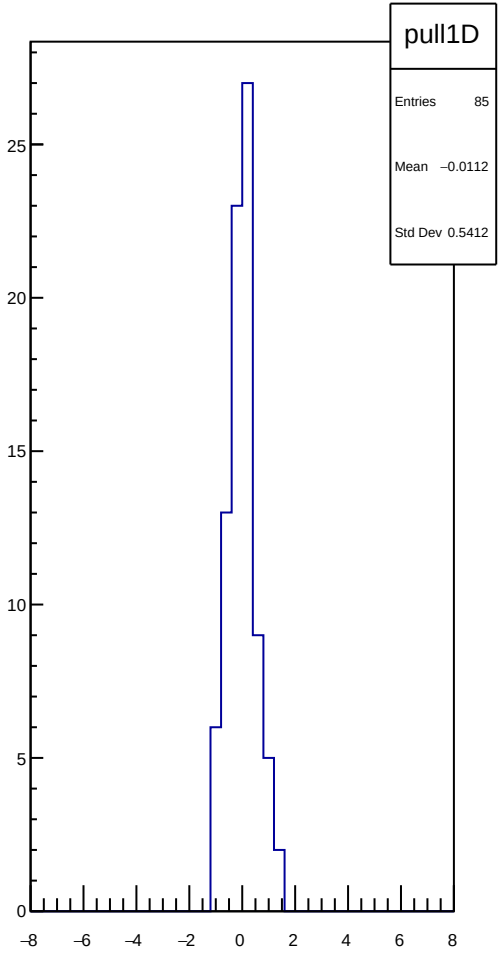

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 25.79 / 84
p0 −34.29 ± 1.152
pull
Entries 85
Mean −85.67
Std Dev 118.3

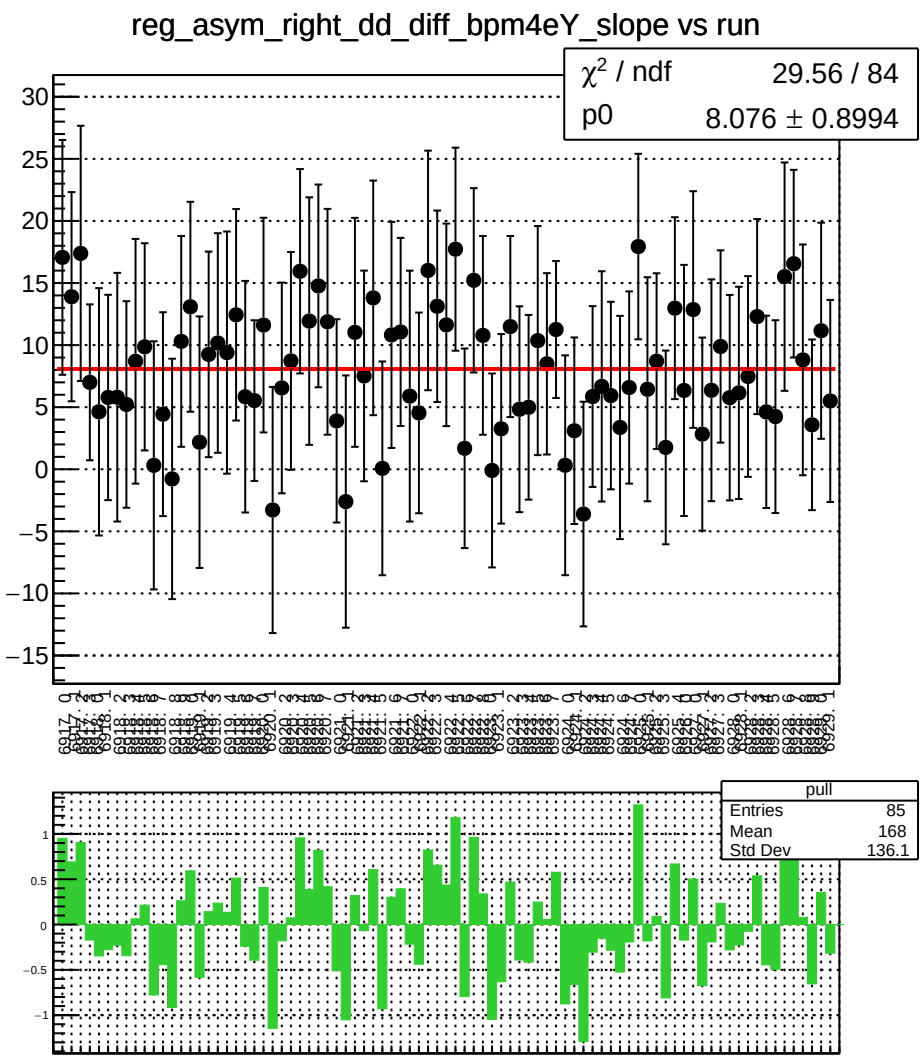

pull1D
Entries 85
Mean 0.01023
Std Dev 0.5507

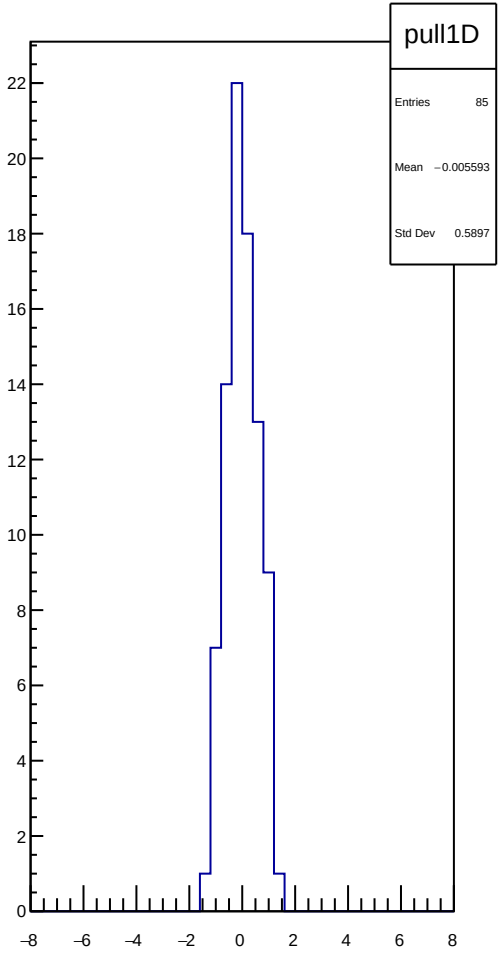

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.02 / 84
p0 0.9371± 0.7929
pull
Entries 85
Mean 11.92
Std Dev 37.98

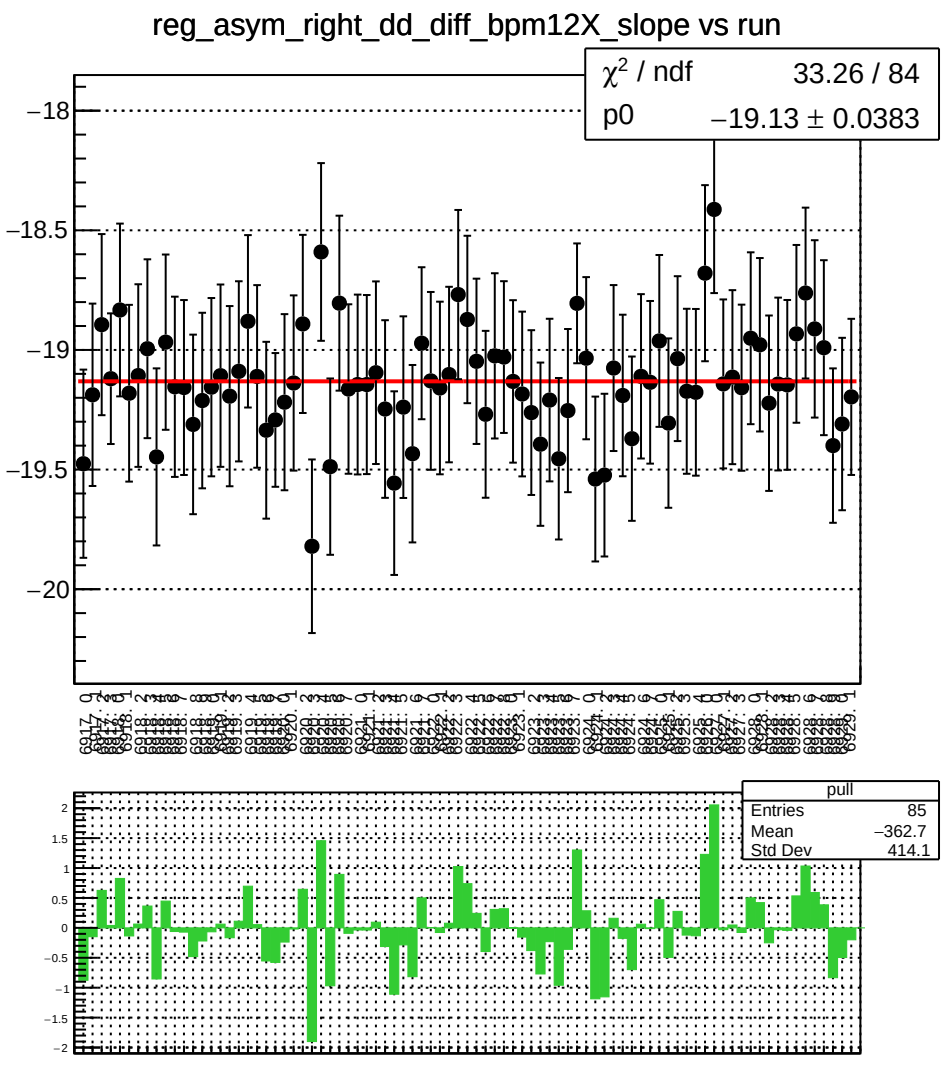

pull1D
Entries 85
Mean 0.01303
Std Dev 0.604

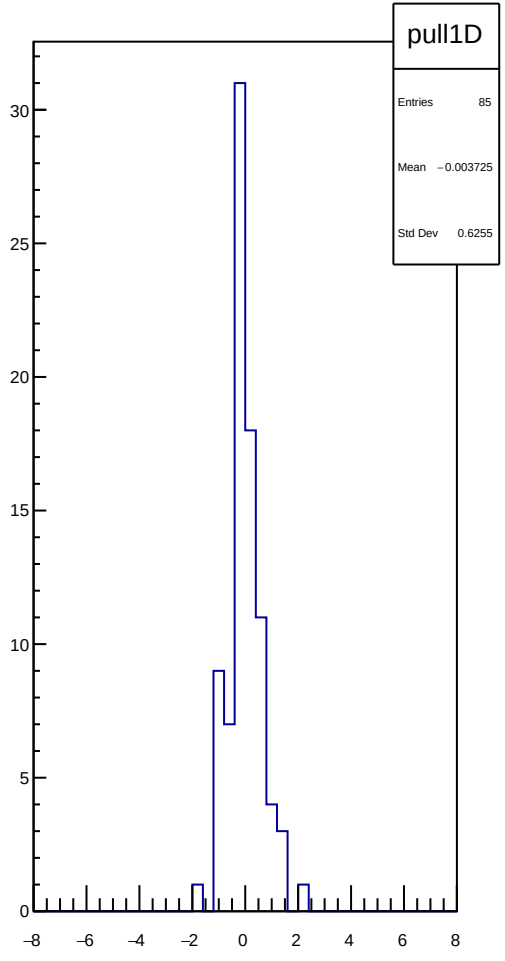

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.91 / 84
p0 62.06 ± 1.069
pull
Entries 85
Mean −88.69
Std Dev 120.4

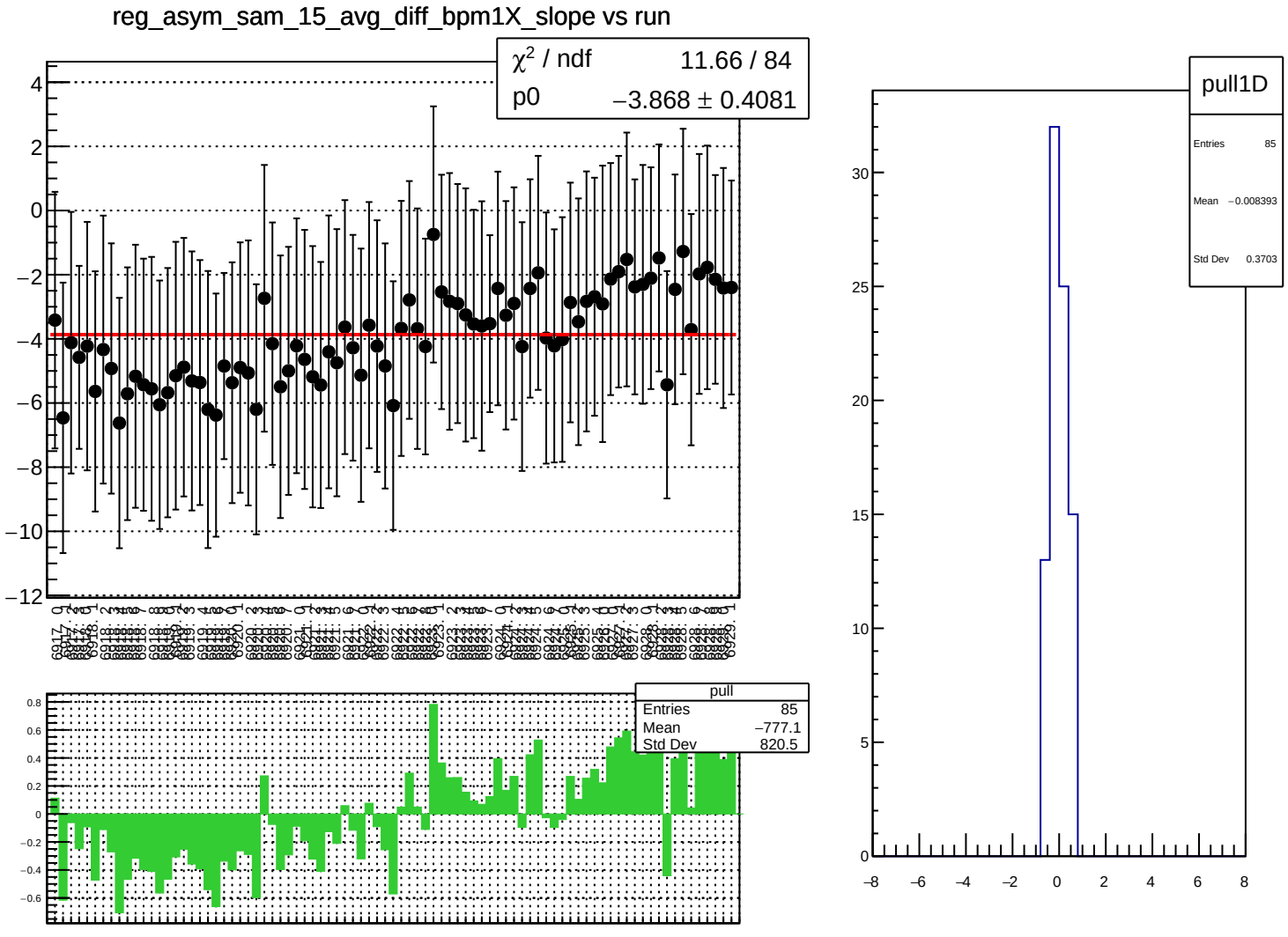

pull1D
Entries 85
Mean −0.0112
Std Dev 0.5412

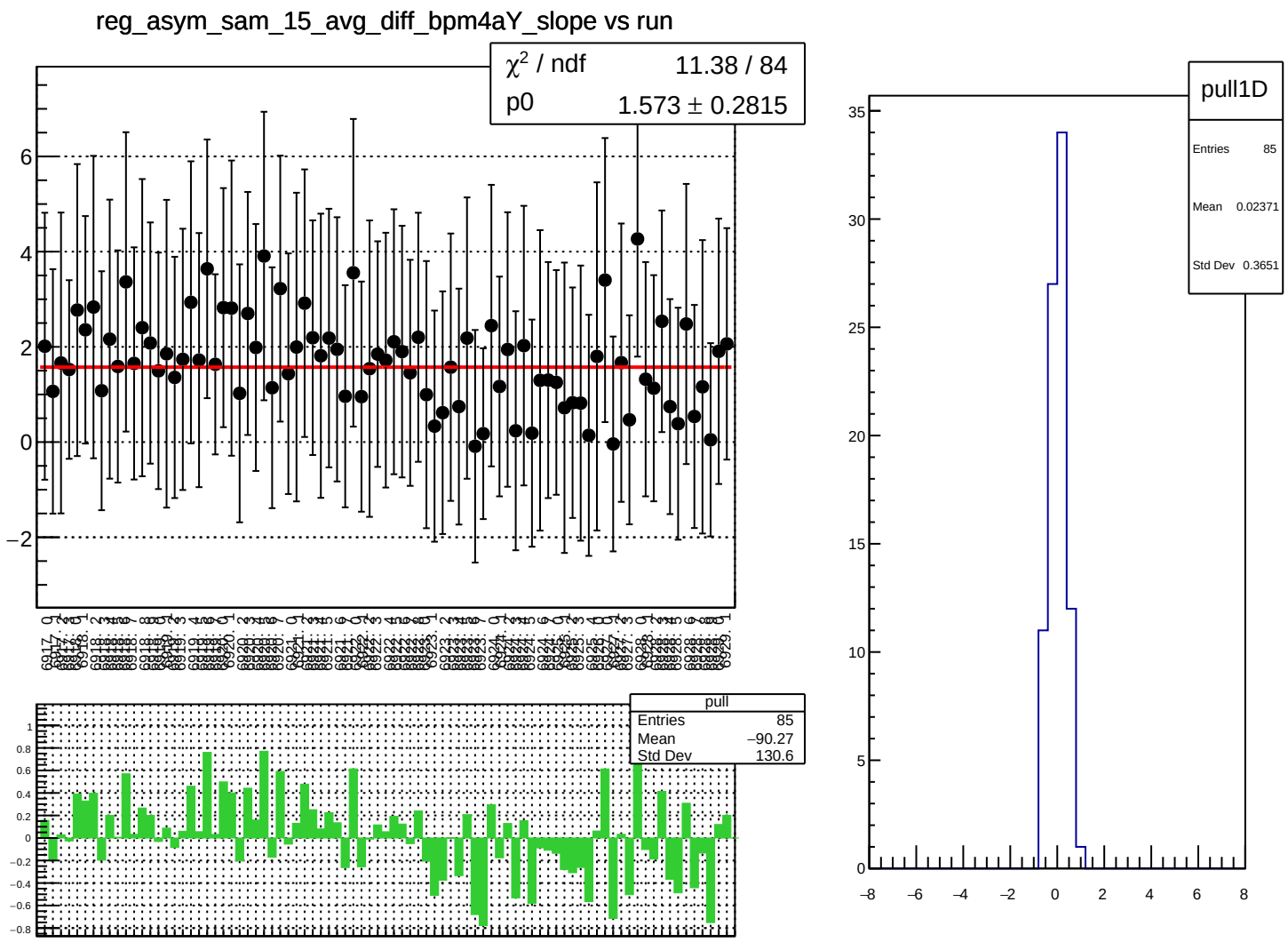

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.56 / 84
p0 8.076 ± 0.8994
pull
Entries 85
Mean 168
Std Dev 136.1

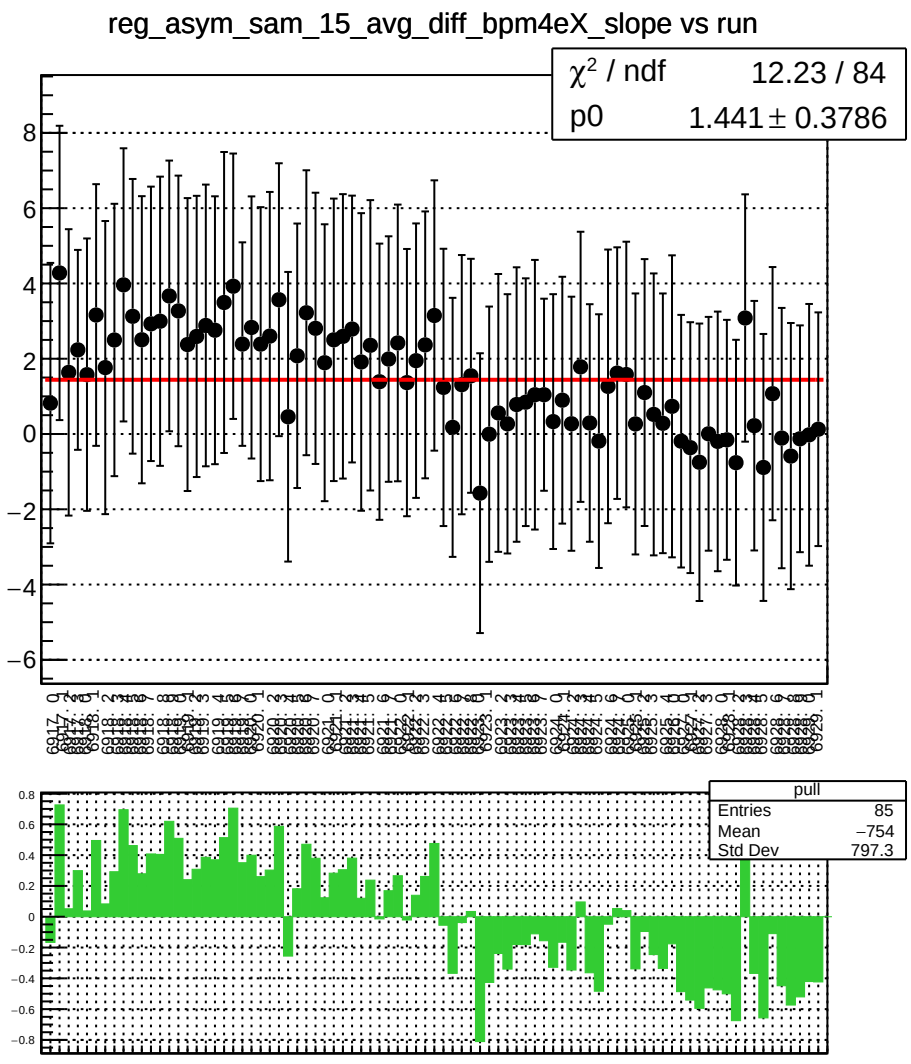

pull1D
Entries 85
Mean −0.005593
Std Dev 0.5897

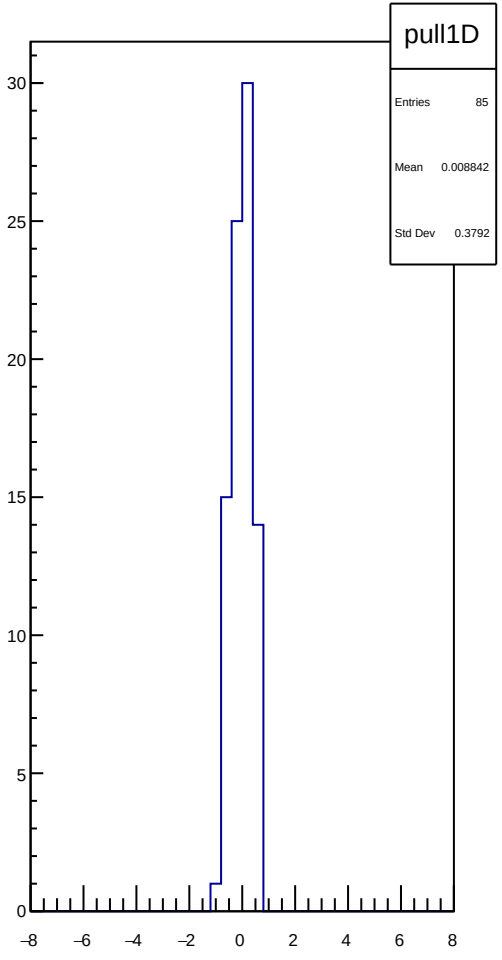

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 33.26 / 84
p0 −19.13 ± 0.0383
−18
−18.5
−19
−19.5
−20
pull
Entries 85
Mean −362.7
Std Dev 414.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

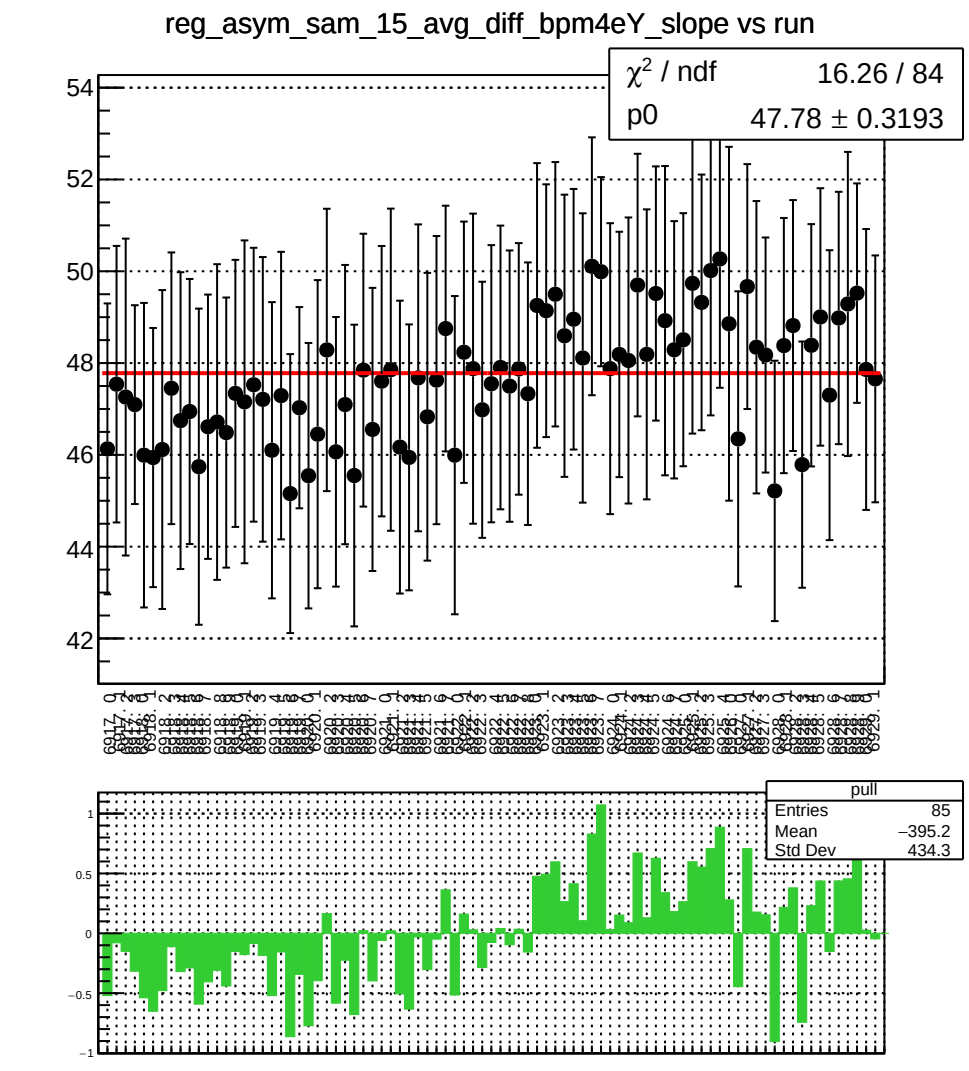

pull1D
Entries 85
Mean −0.003725
Std Dev 0.6255
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

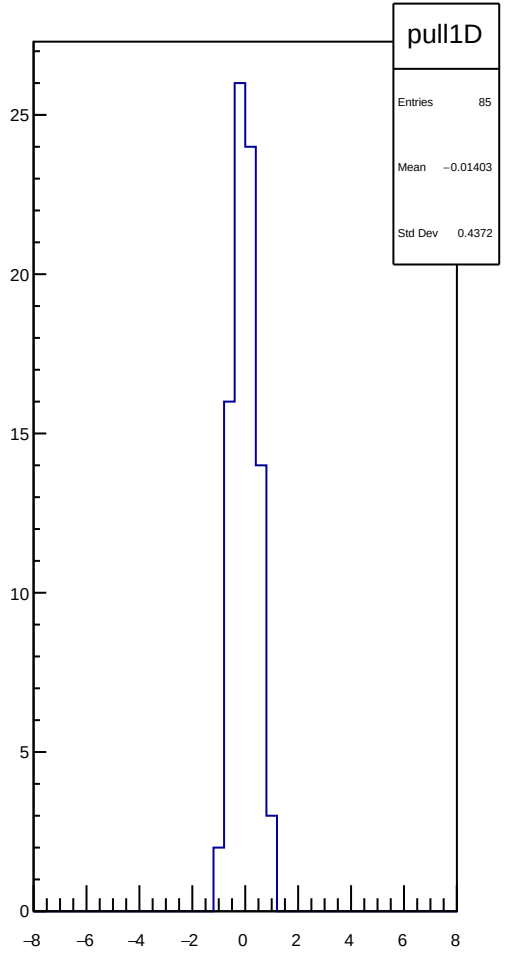

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 11.66 / 84
p0 −3.868 ± 0.4081
pull
Entries 85
Mean −777.1
Std Dev 820.5
pull1D
Entries 85
Mean −0.008393
Std Dev 0.3703

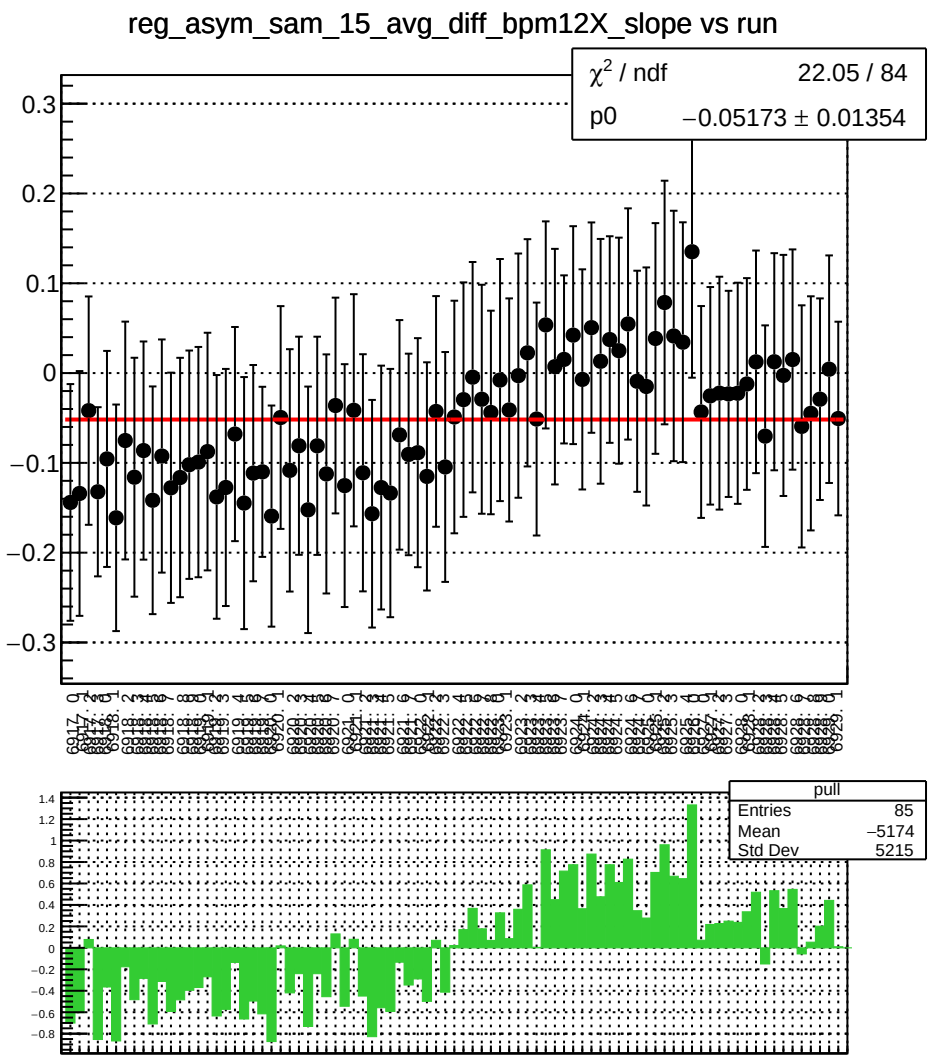

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.38 / 84
p0 1.573 ± 0.2815
pull
Entries 85
Mean −90.27
Std Dev 130.6
pull1D
Entries 85
Mean 0.02371
Std Dev 0.3651

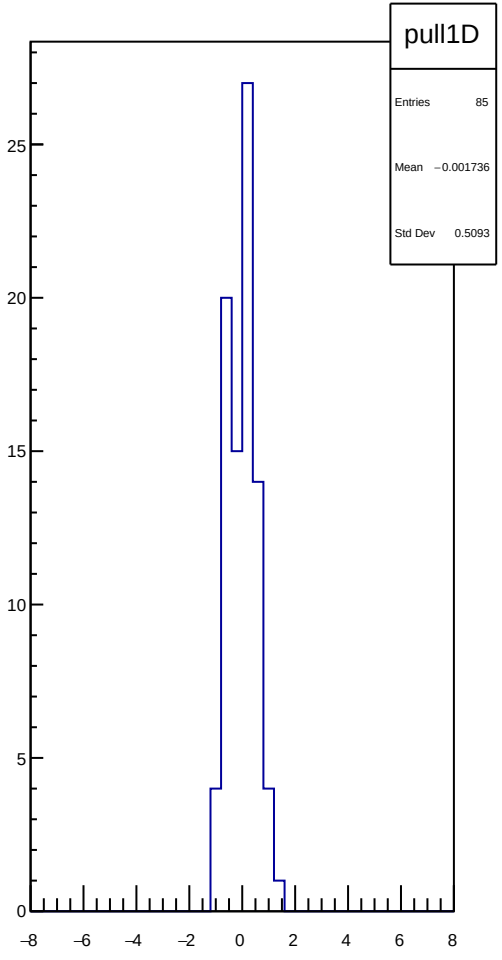

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.23 / 84
p0 1.441 ± 0.3786
pull
Entries 85
Mean −754
Std Dev 797.3

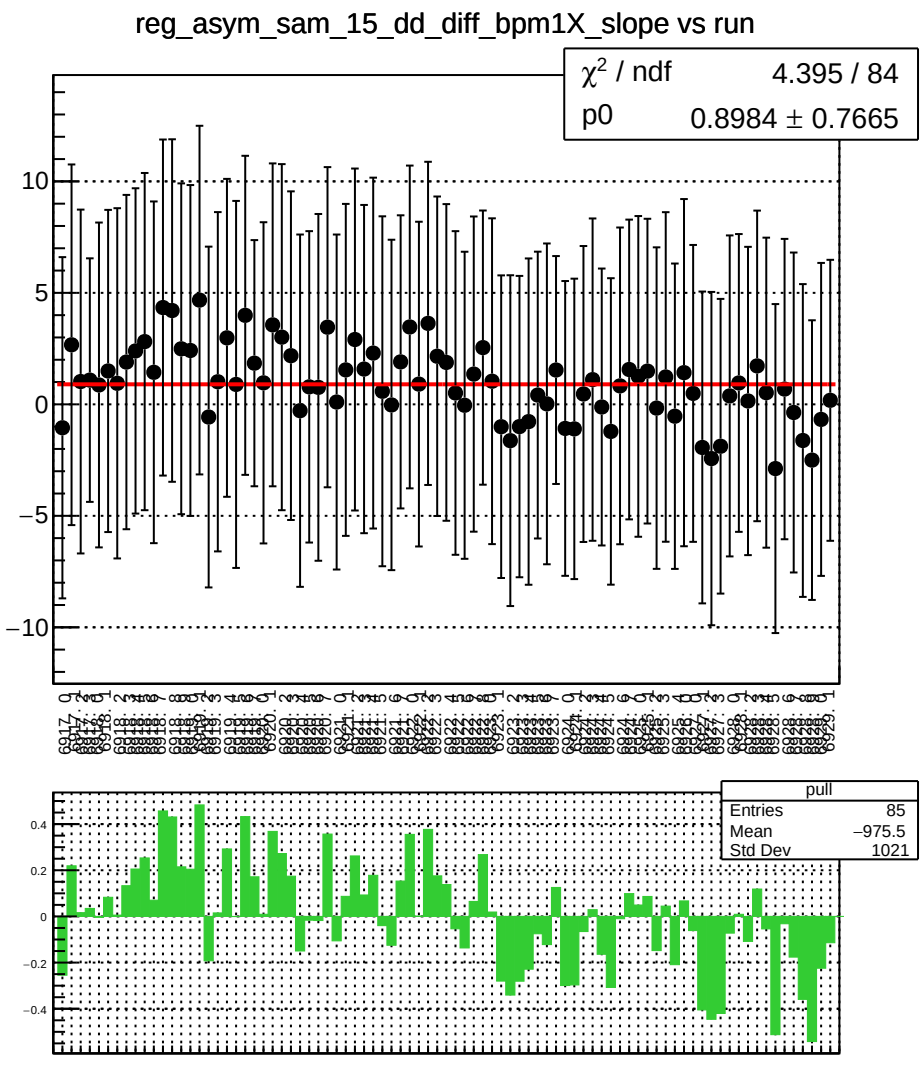

pull1D
Entries 85
Mean 0.008842
Std Dev 0.3792

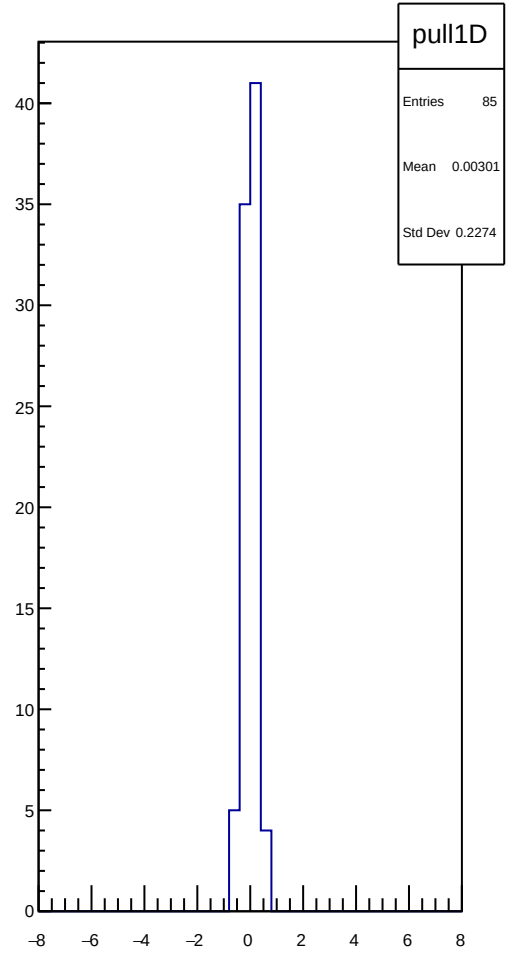

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.26 / 84
p0 47.78 ± 0.3193
54
52
50
48
46
44
42
pull
Entries 85
Mean −395.2
Std Dev 434.3
1
0.5
0
−0.5
−1

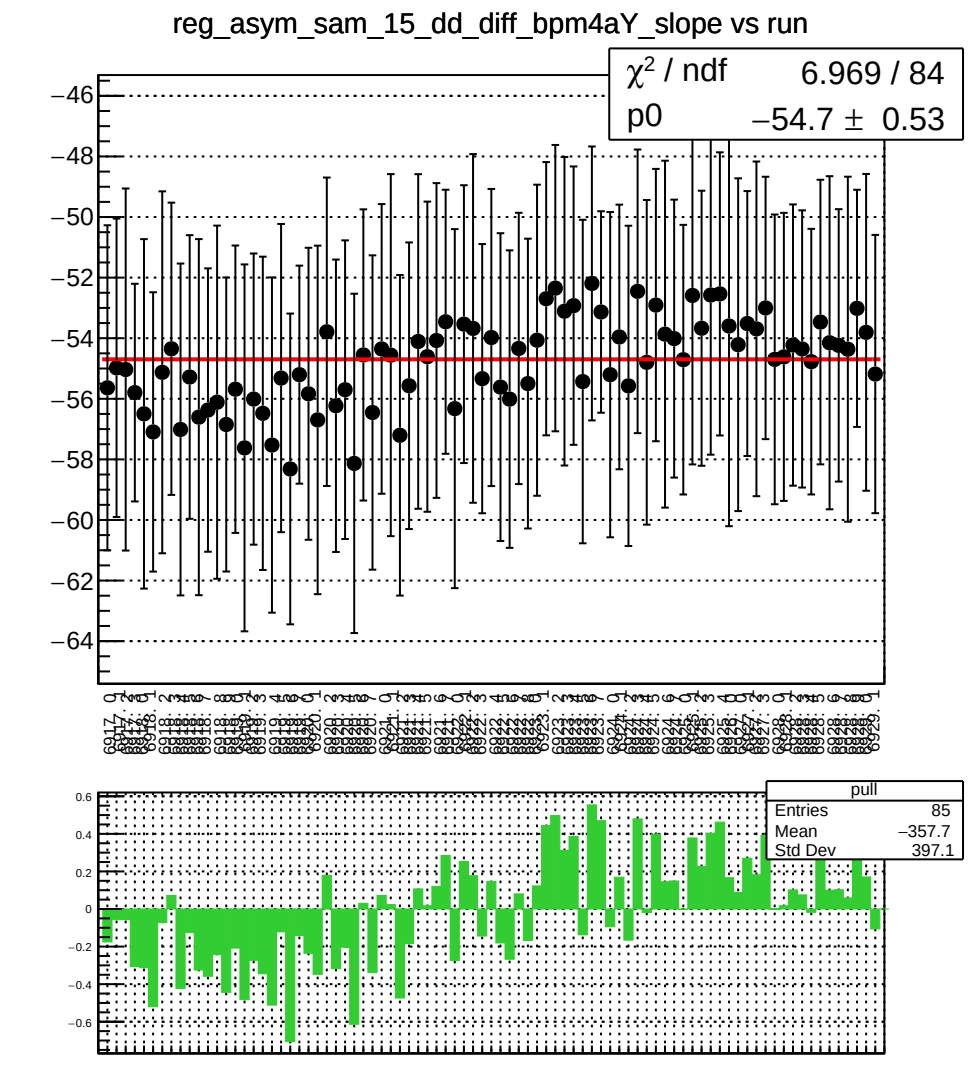

pull1D
Entries 85
Mean −0.01403
Std Dev 0.4372
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

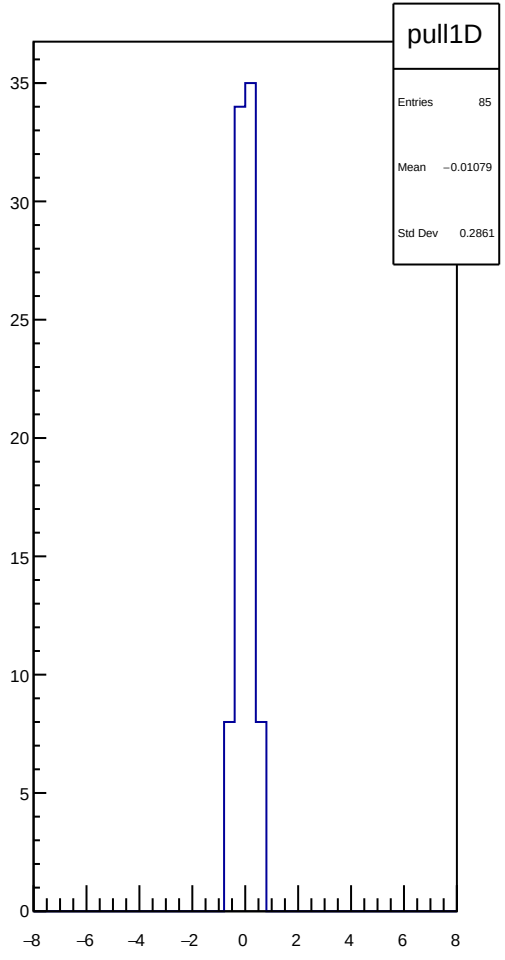

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 22.05 / 84
p0 −0.05173 ± 0.01354
pull
Entries 85
Mean −5174
Std Dev 5215

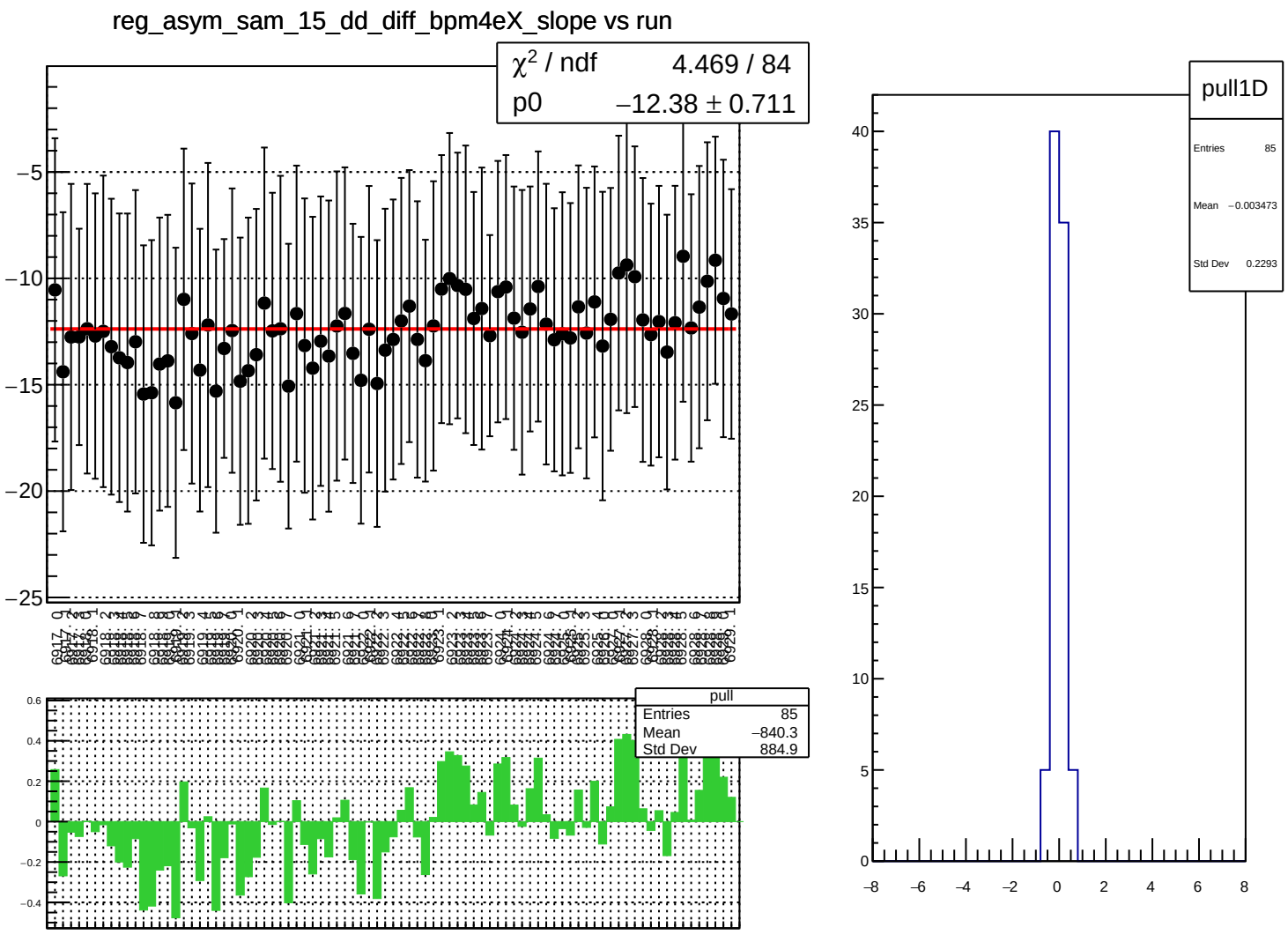

pull1D
Entries 85
Mean −0.001736
Std Dev 0.5093

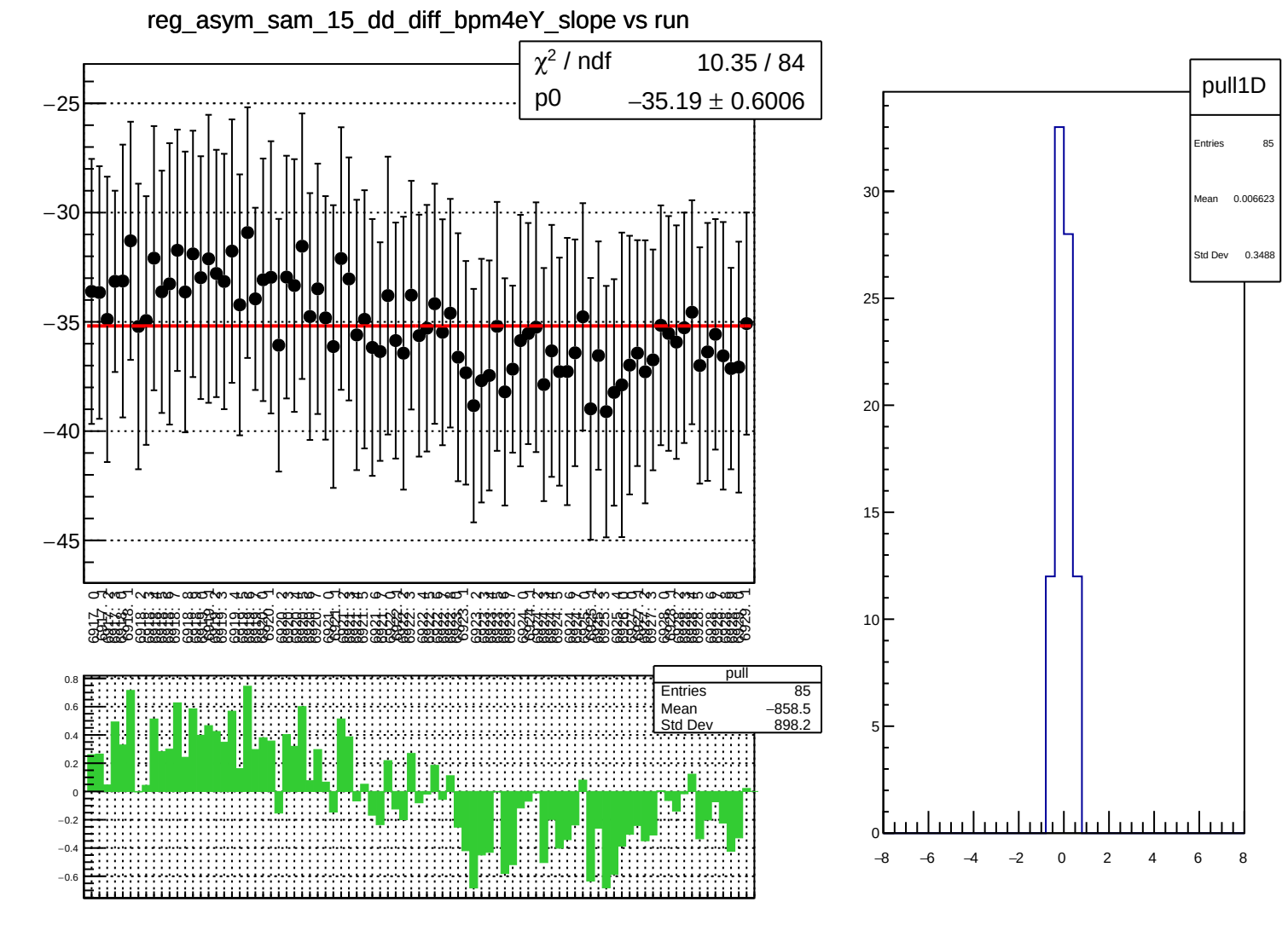

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 4.395 / 84
p0 0.8984 ± 0.7665
pull
Entries 85
Mean −975.5
Std Dev 1021

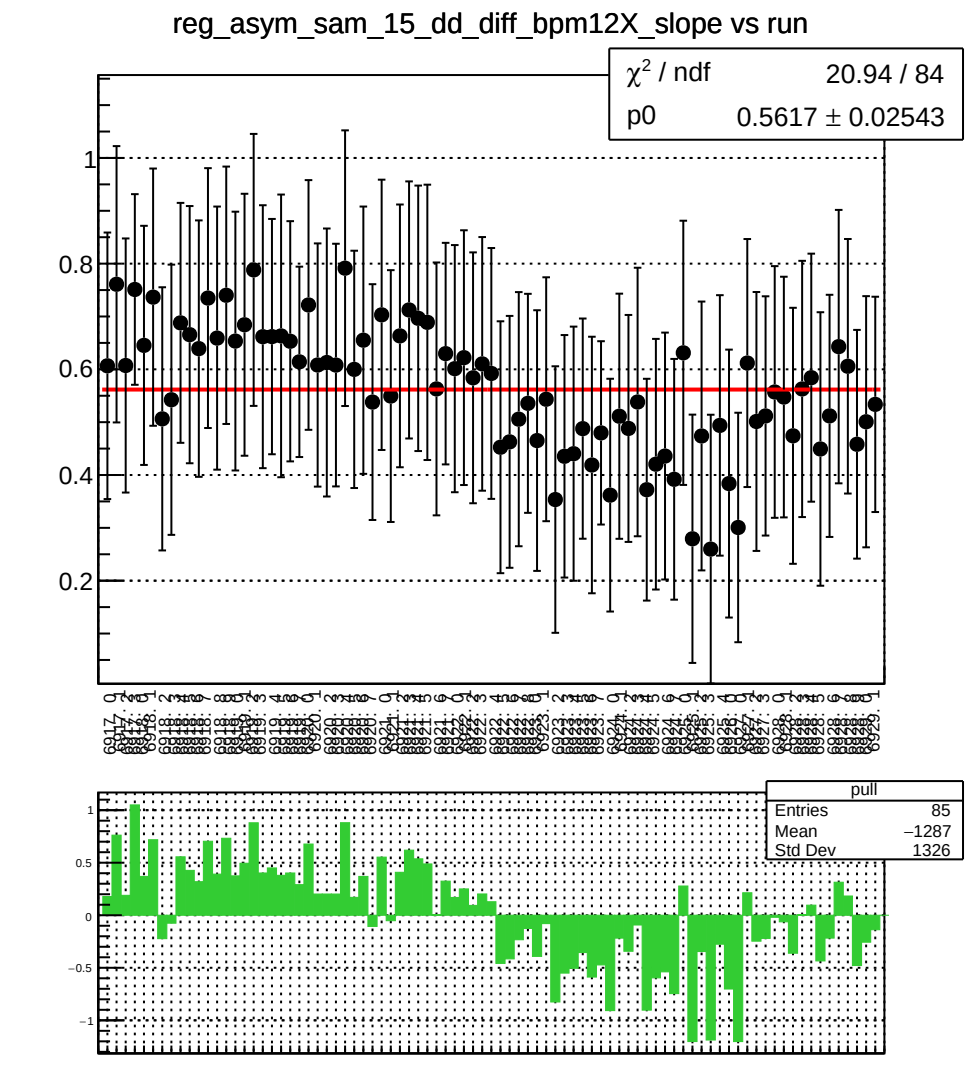

pull1D
Entries 85
Mean 0.00301
Std Dev 0.2274

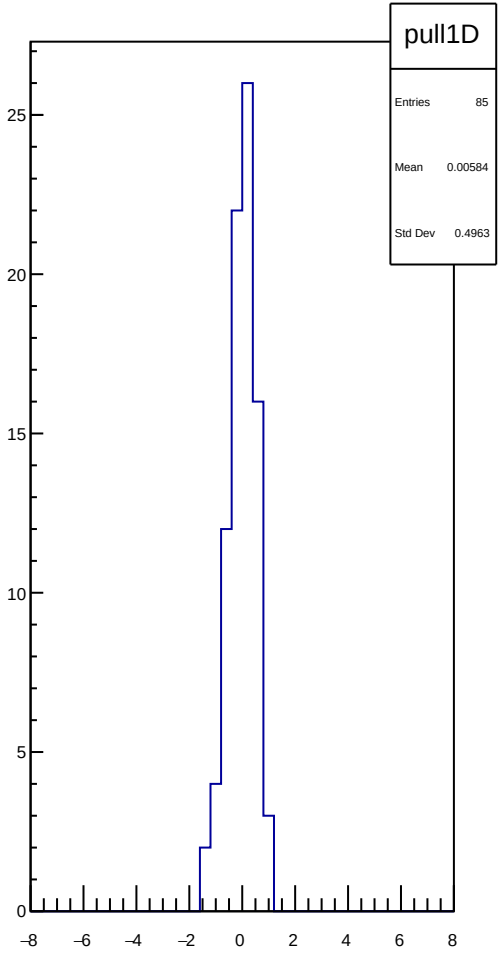

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.969 / 84
p0 −54.7 ± 0.53
pull
Entries 85
Mean −357.7
Std Dev 397.1

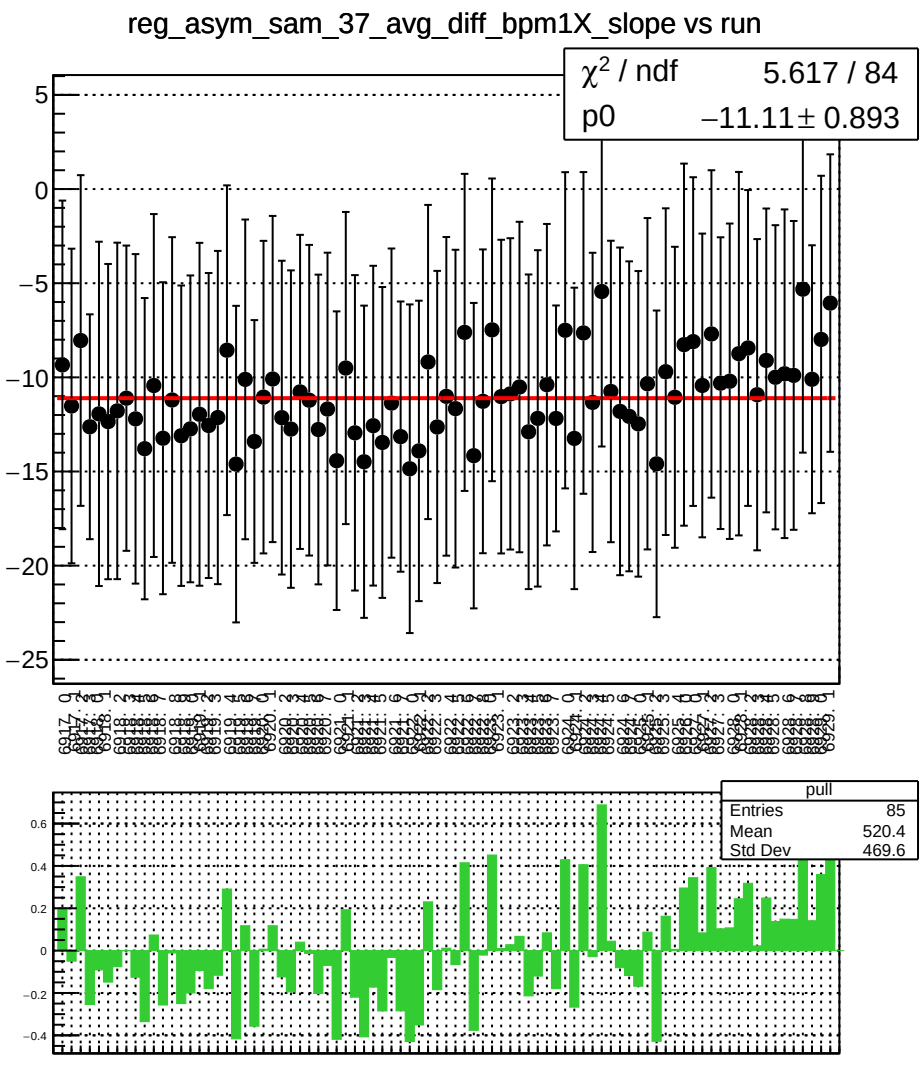

pull1D
Entries 85
Mean −0.01079
Std Dev 0.2861

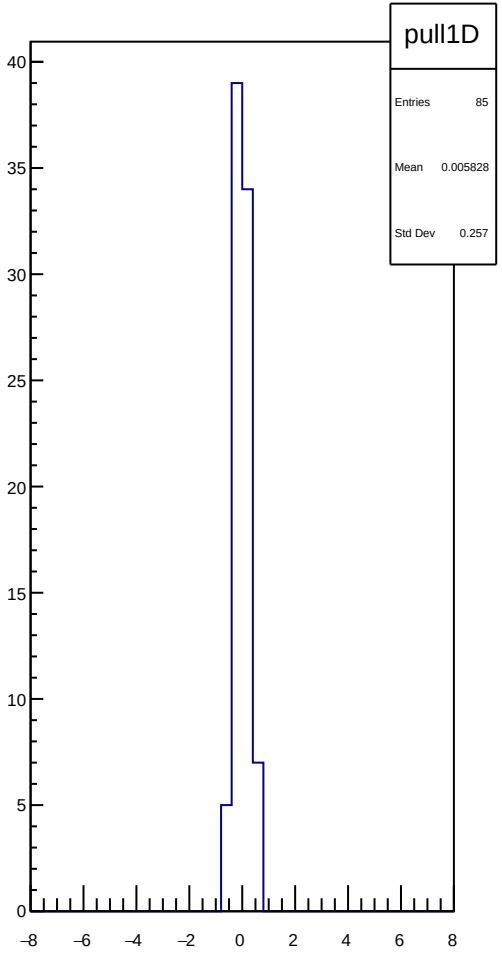

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.469 / 84
p0 −12.38 ± 0.711
pull
Entries 85
Mean −840.3
Std Dev 884.9
pull1D
Entries 85
Mean −0.003473
Std Dev 0.2293

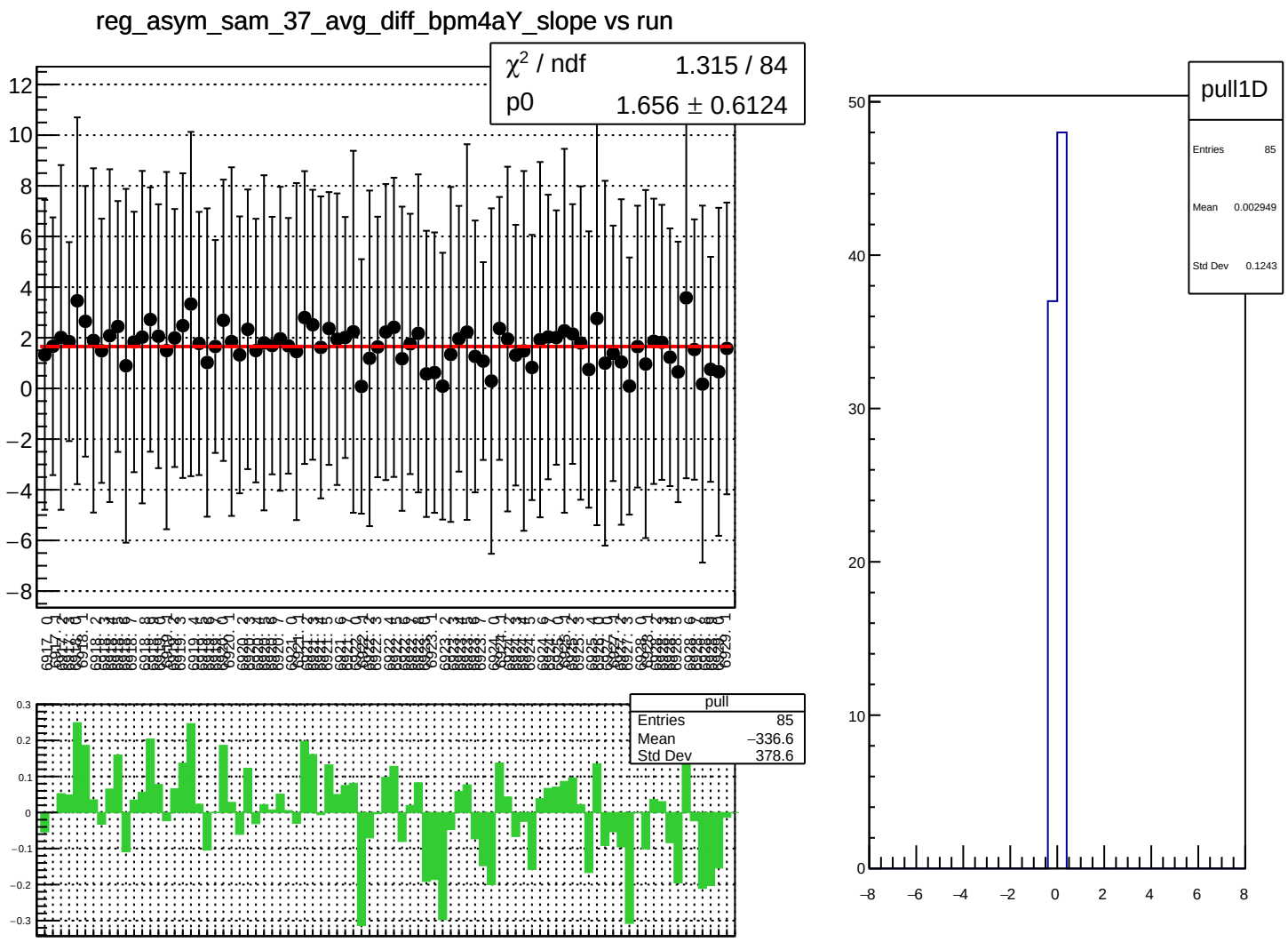

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.35 / 84
p0 −35.19 ± 0.6006
pull
Entries 85
Mean −858.5
Std Dev 898.2
pull1D
Entries 85
Mean 0.006623
Std Dev 0.3488

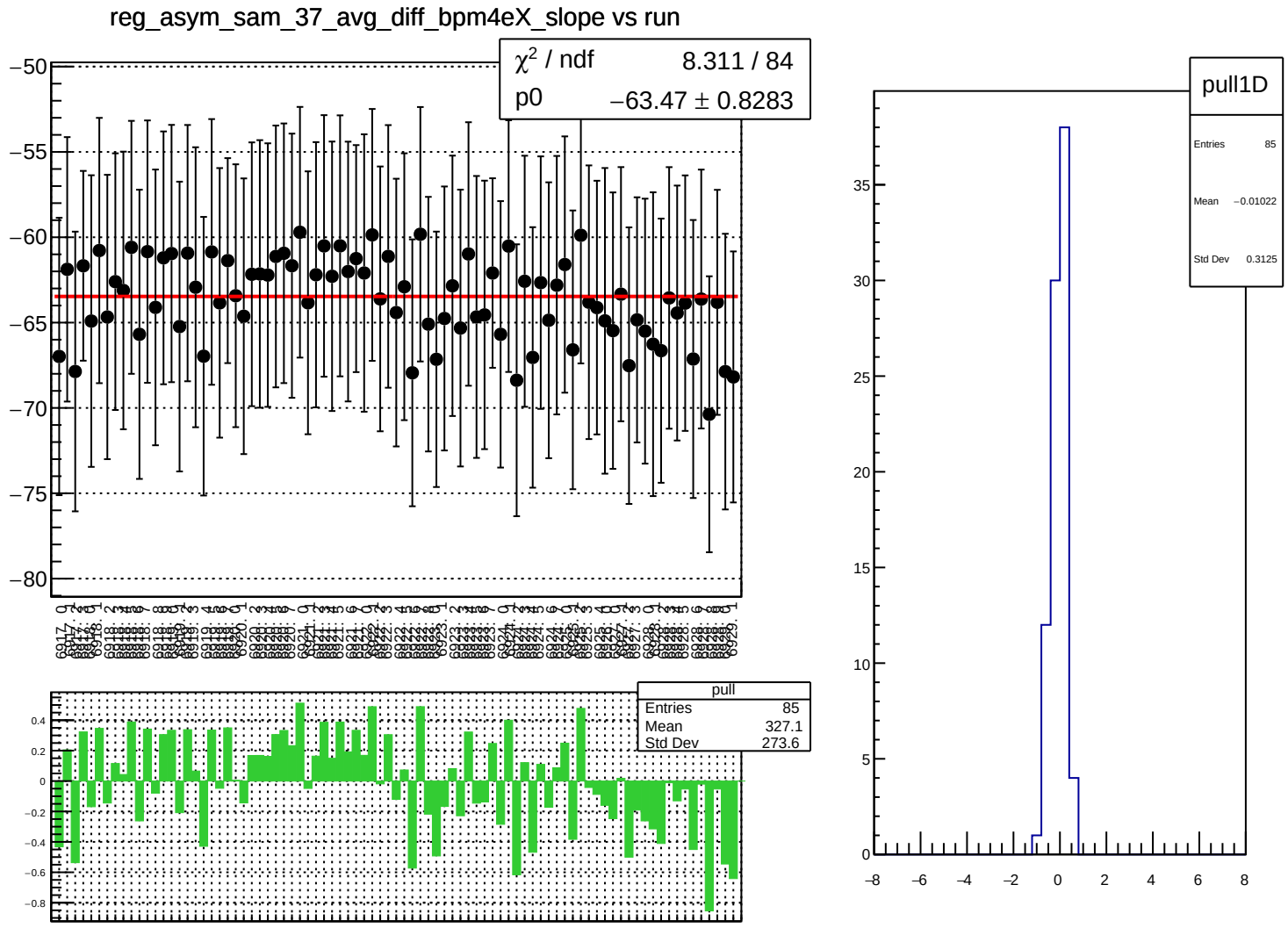

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 20.94 / 84
p0 0.5617 ± 0.02543
pull
Entries 85
Mean −1287
Std Dev 1326

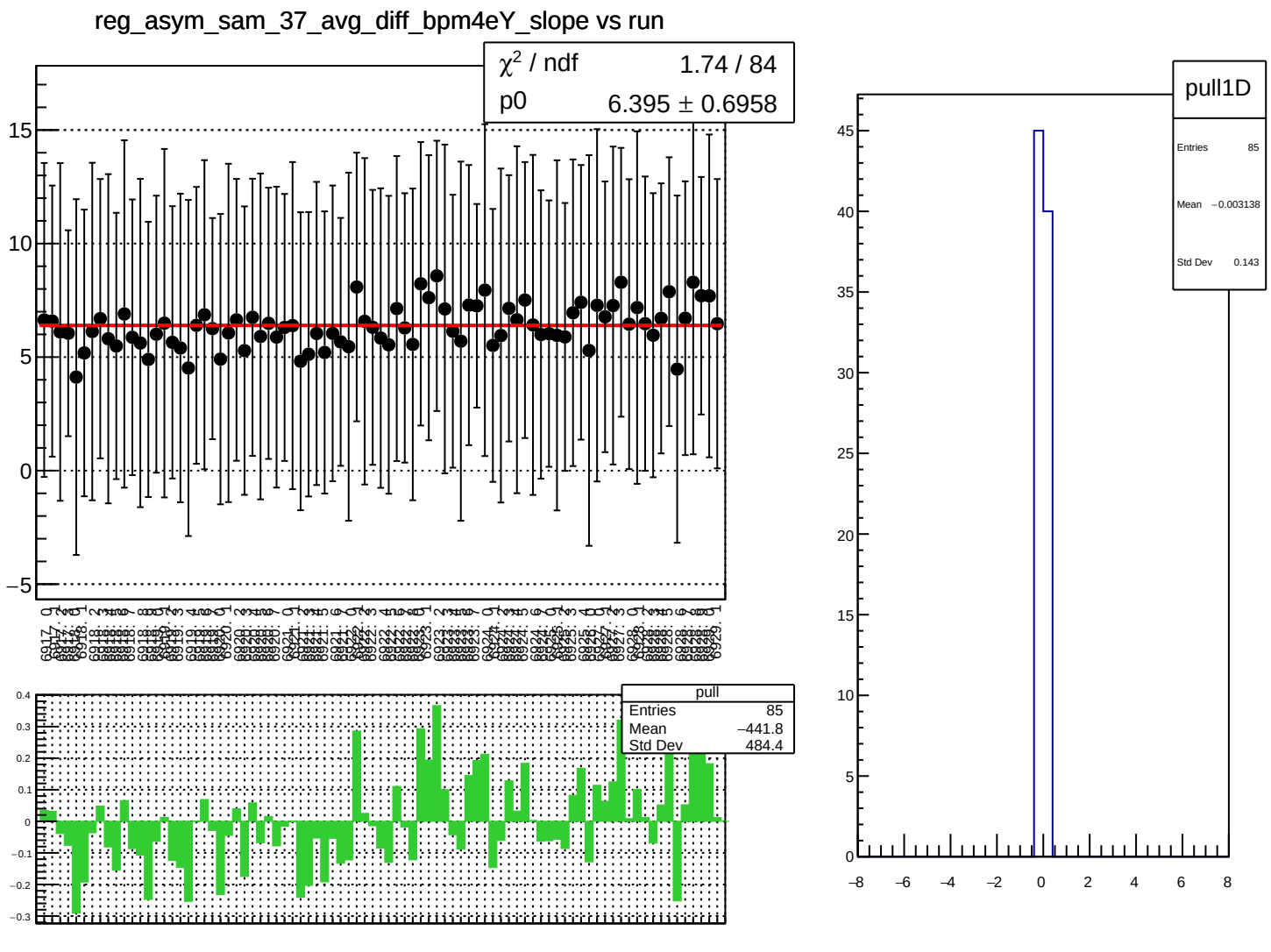

pull1D
Entries 85
Mean 0.00584
Std Dev 0.4963

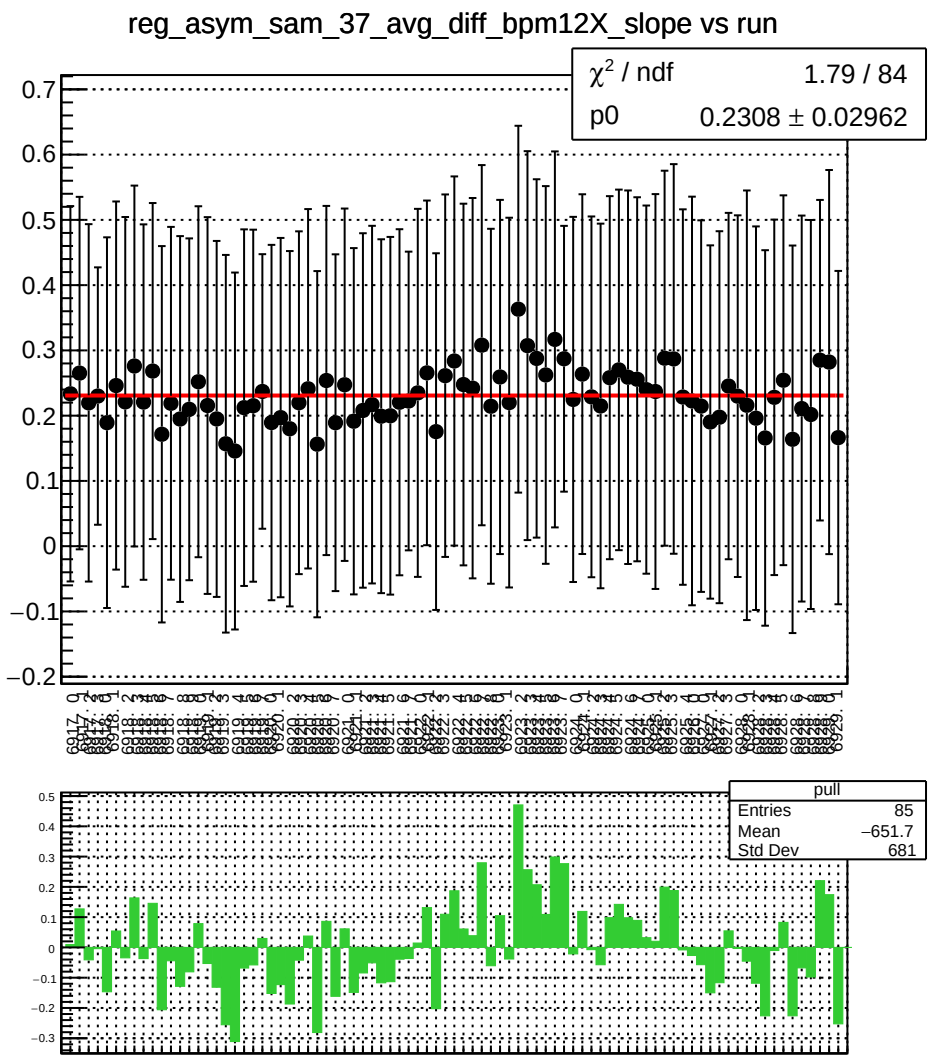

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 5.617 / 84
p0 −11.11 ± 0.893
pull
Entries 85
Mean 520.4
Std Dev 469.6

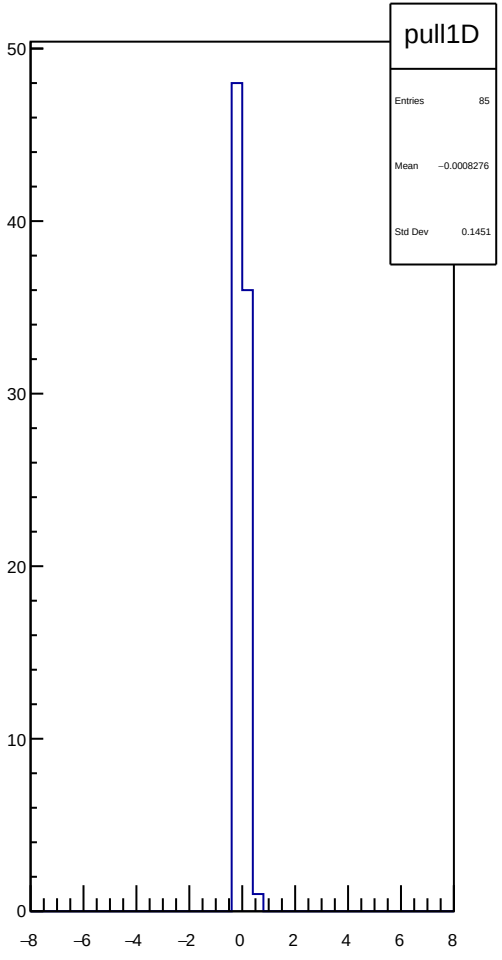

pull1D
Entries 85
Mean 0.005828
Std Dev 0.257

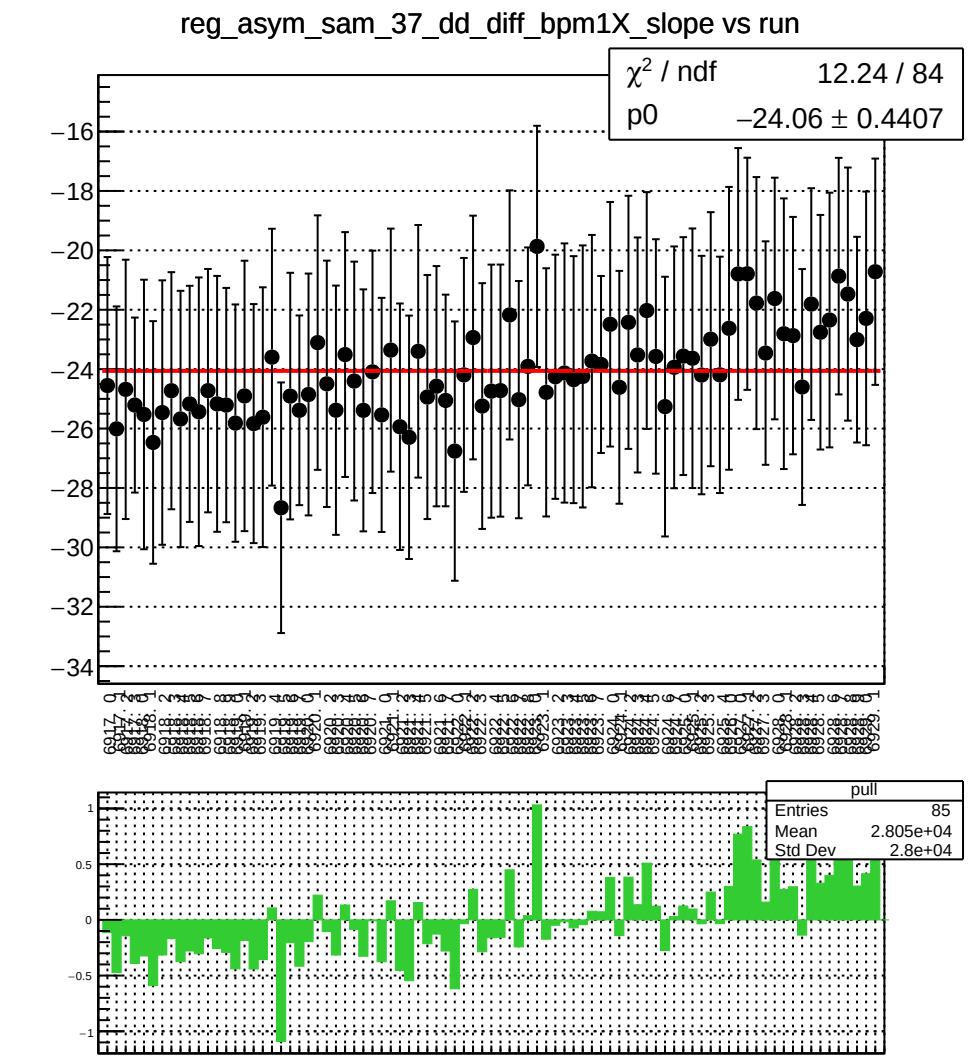

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.315 / 84
p0 1.656 ± 0.6124
pull
Entries 85
Mean −336.6
Std Dev 378.6
pull1D
Entries 85
Mean 0.002949
Std Dev 0.1243

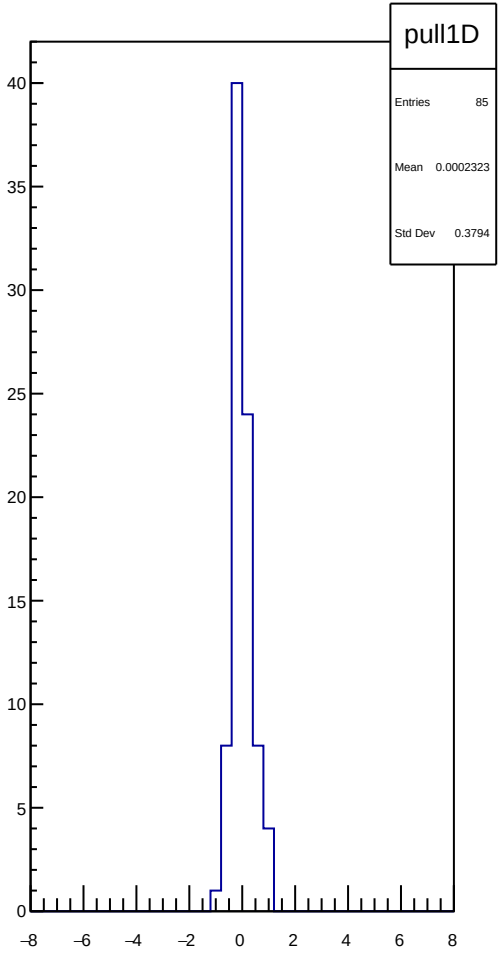

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.311 / 84
p0 −63.47 ± 0.8283
pull
Entries 85
Mean 327.1
Std Dev 273.6
pull1D
Entries 85
Mean −0.01022
Std Dev 0.3125

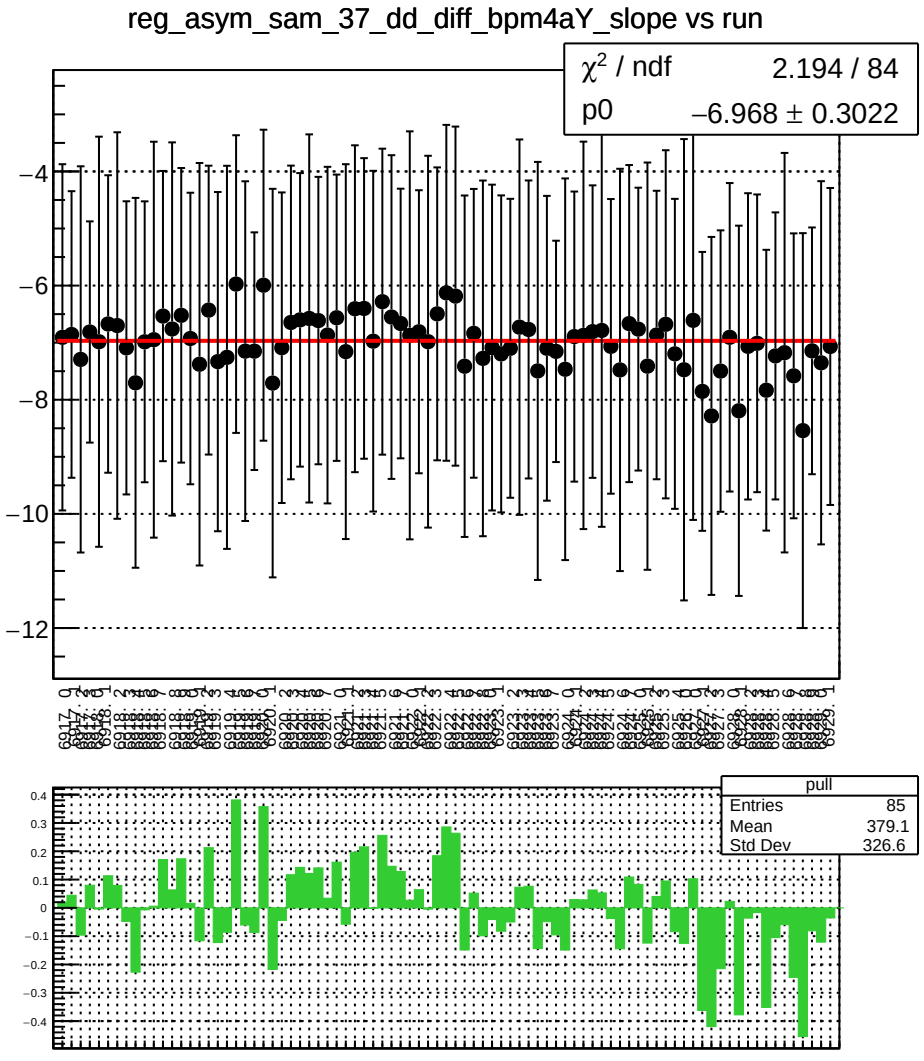

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.74 / 84
p0 6.395 ± 0.6958
pull
Entries 85
Mean −441.8
Std Dev 484.4
pull1D
Entries 85
Mean −0.003138
Std Dev 0.143

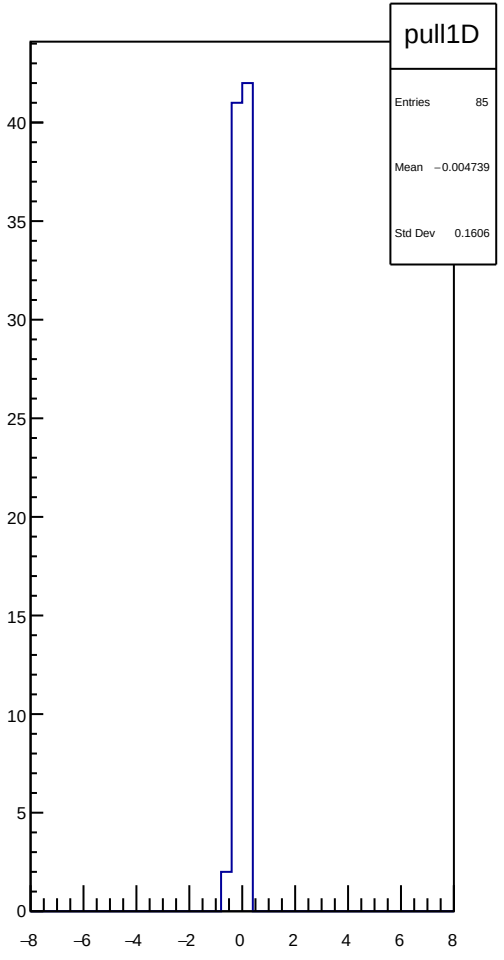

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.79 / 84
p0 0.2308 ± 0.02962
pull
Entries 85
Mean −651.7
Std Dev 681

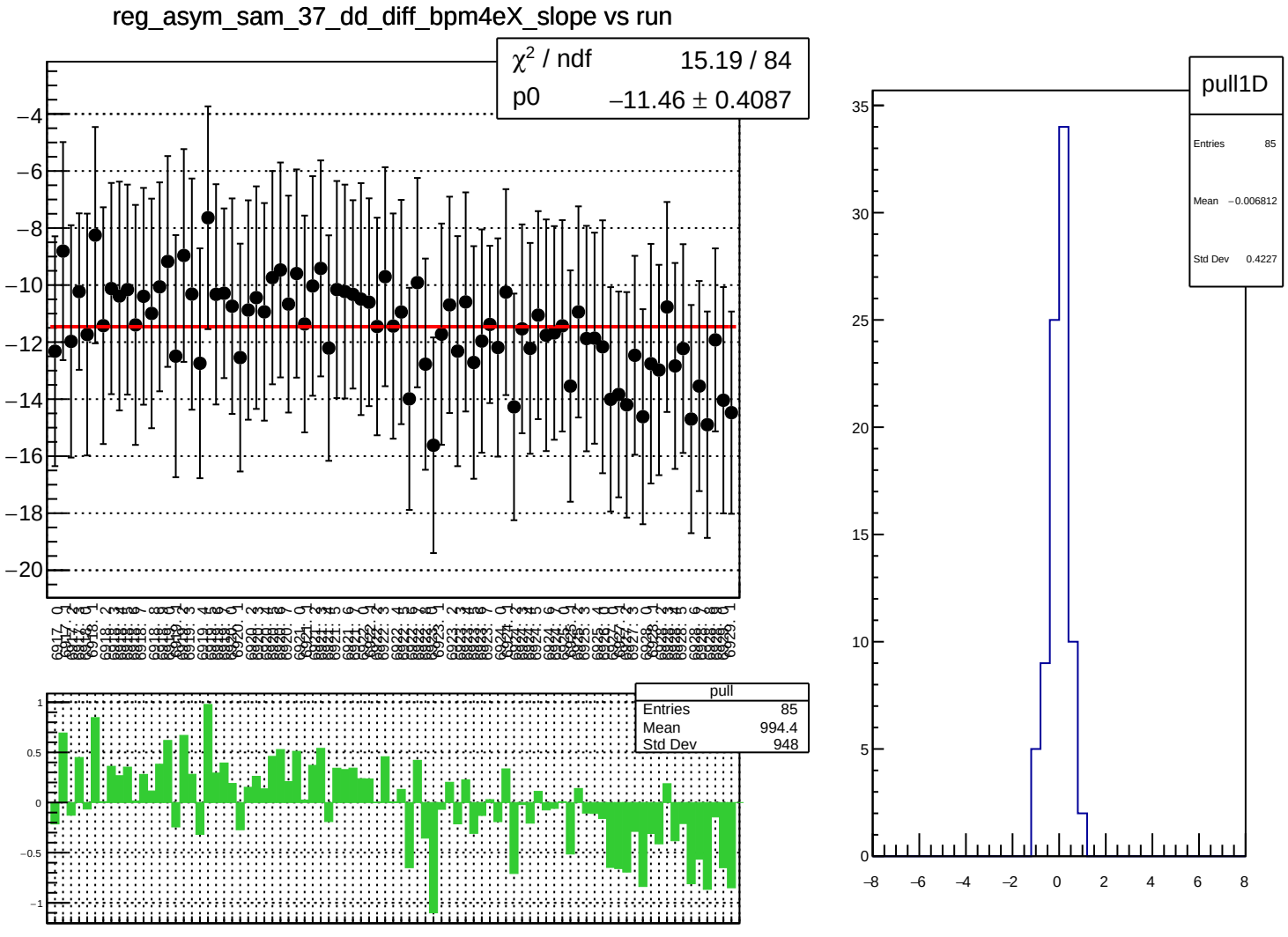

pull1D
Entries 85
Mean −0.0008276
Std Dev 0.1451

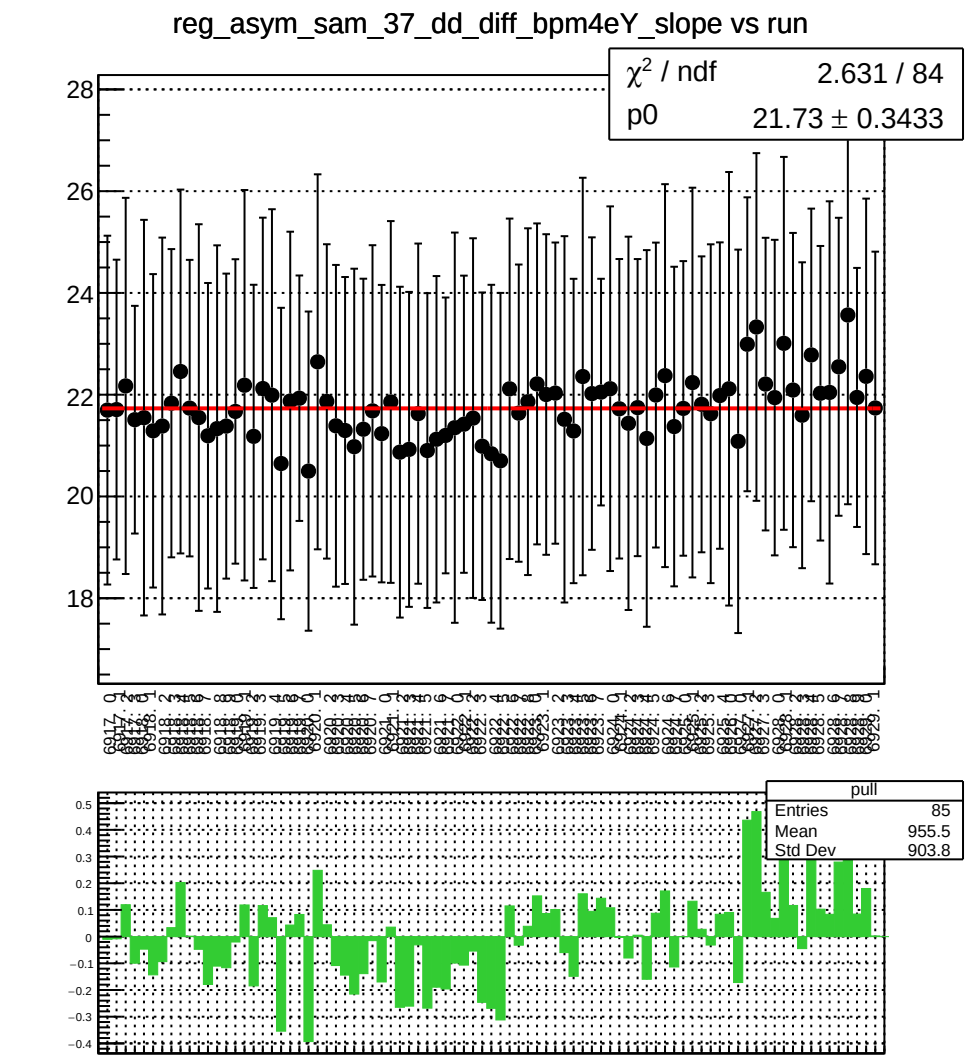

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 12.24 / 84
p0 −24.06 ± 0.4407
pull
Entries 85
Mean 2.805e+04
Std Dev 2.8e+04

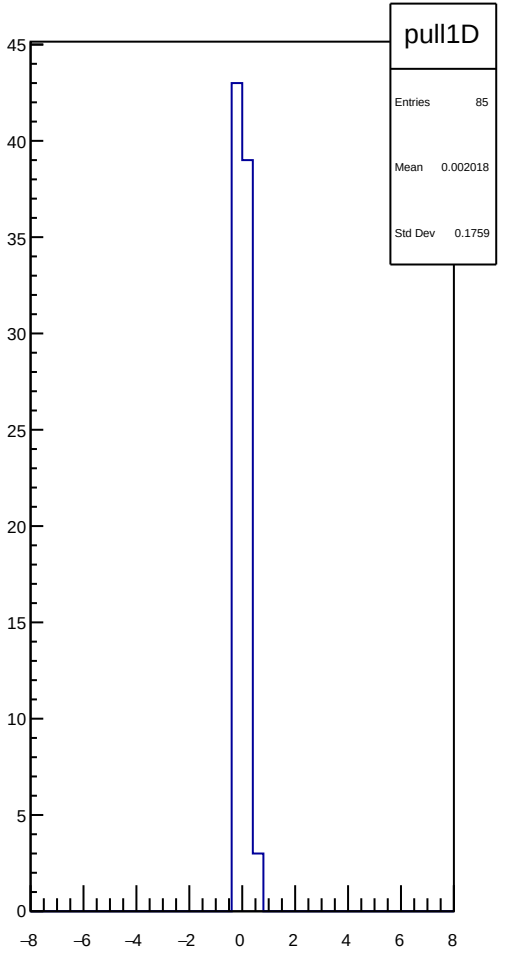

pull1D
Entries 85
Mean 0.0002323
Std Dev 0.3794

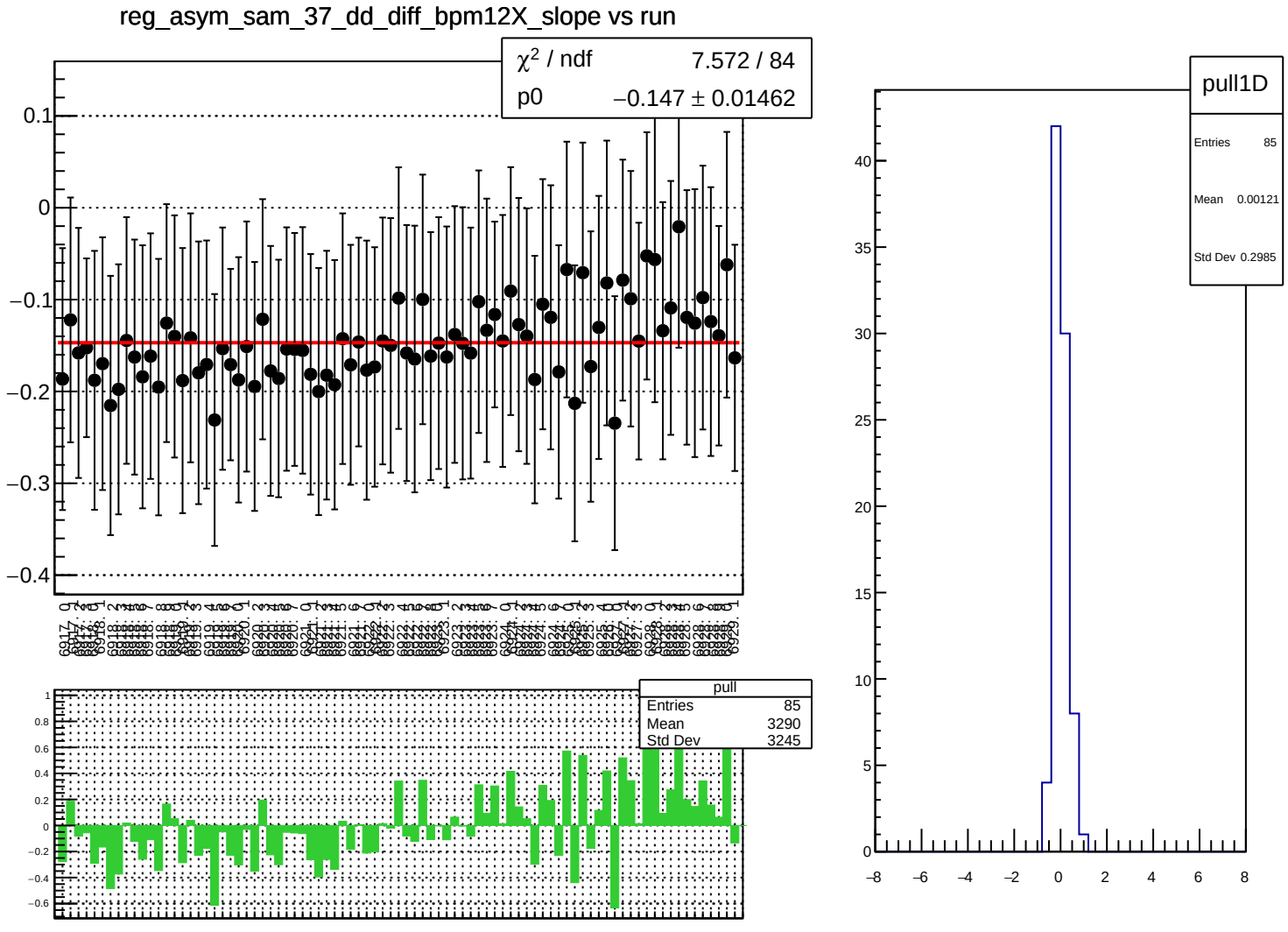

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.194 / 84
p0 −6.968 ± 0.3022
pull
Entries 85
Mean 379.1
Std Dev 326.6

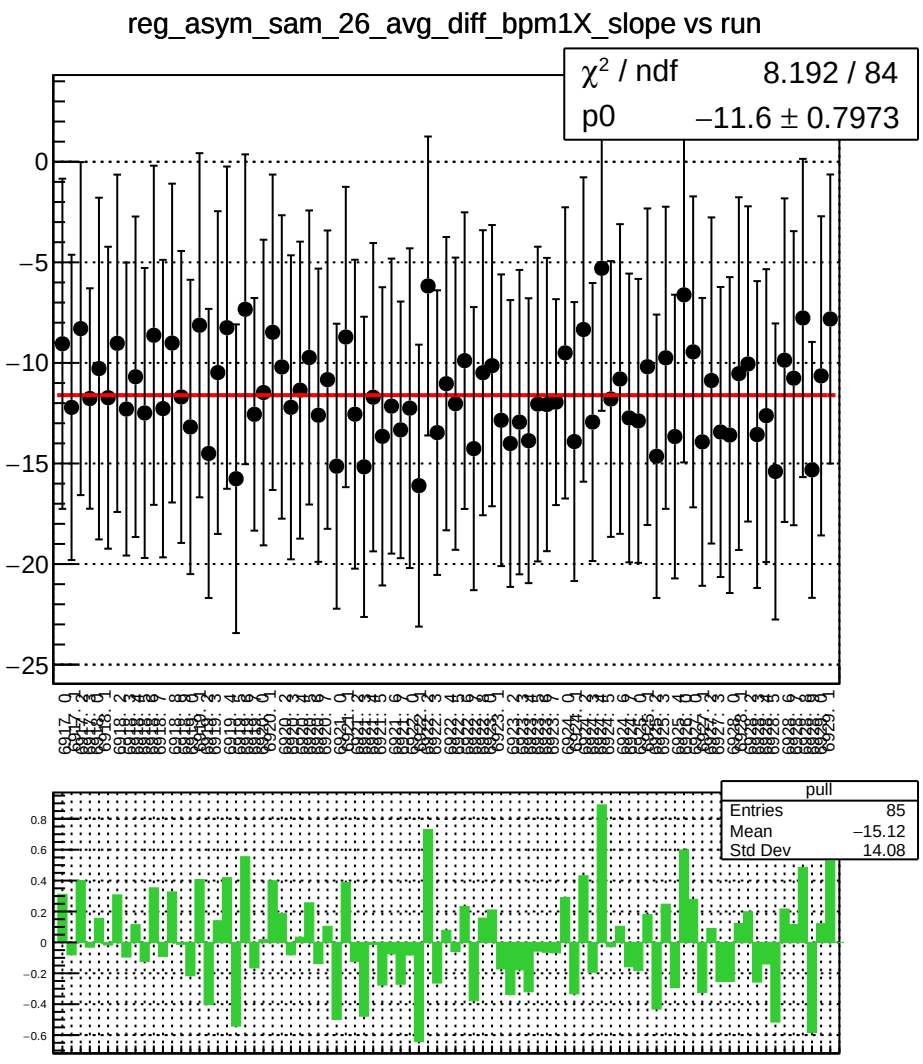

pull1D
Entries 85
Mean −0.004739
Std Dev 0.1606

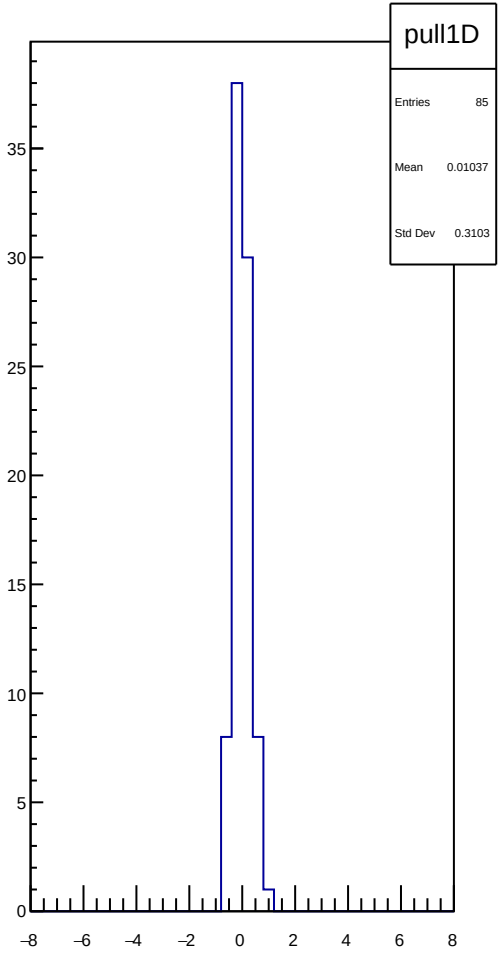

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.19 / 84
p0 −11.46 ± 0.4087
pull
Entries 85
Mean 994.4
Std Dev 948
pull1D
Entries 85
Mean −0.006812
Std Dev 0.4227

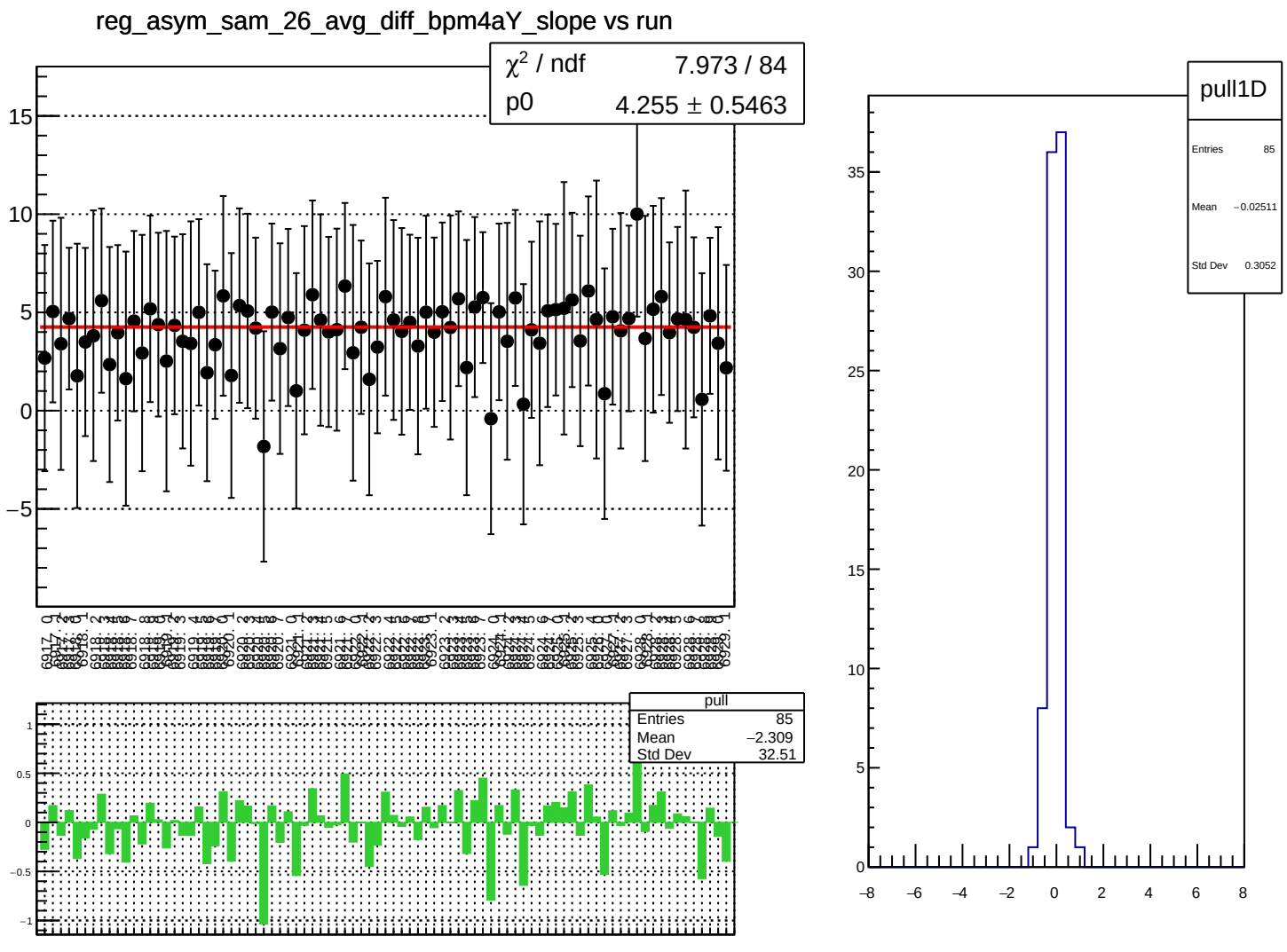

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.631 / 84
p0 21.73 ± 0.3433
pull
Entries 85
Mean 955.5
Std Dev 903.8

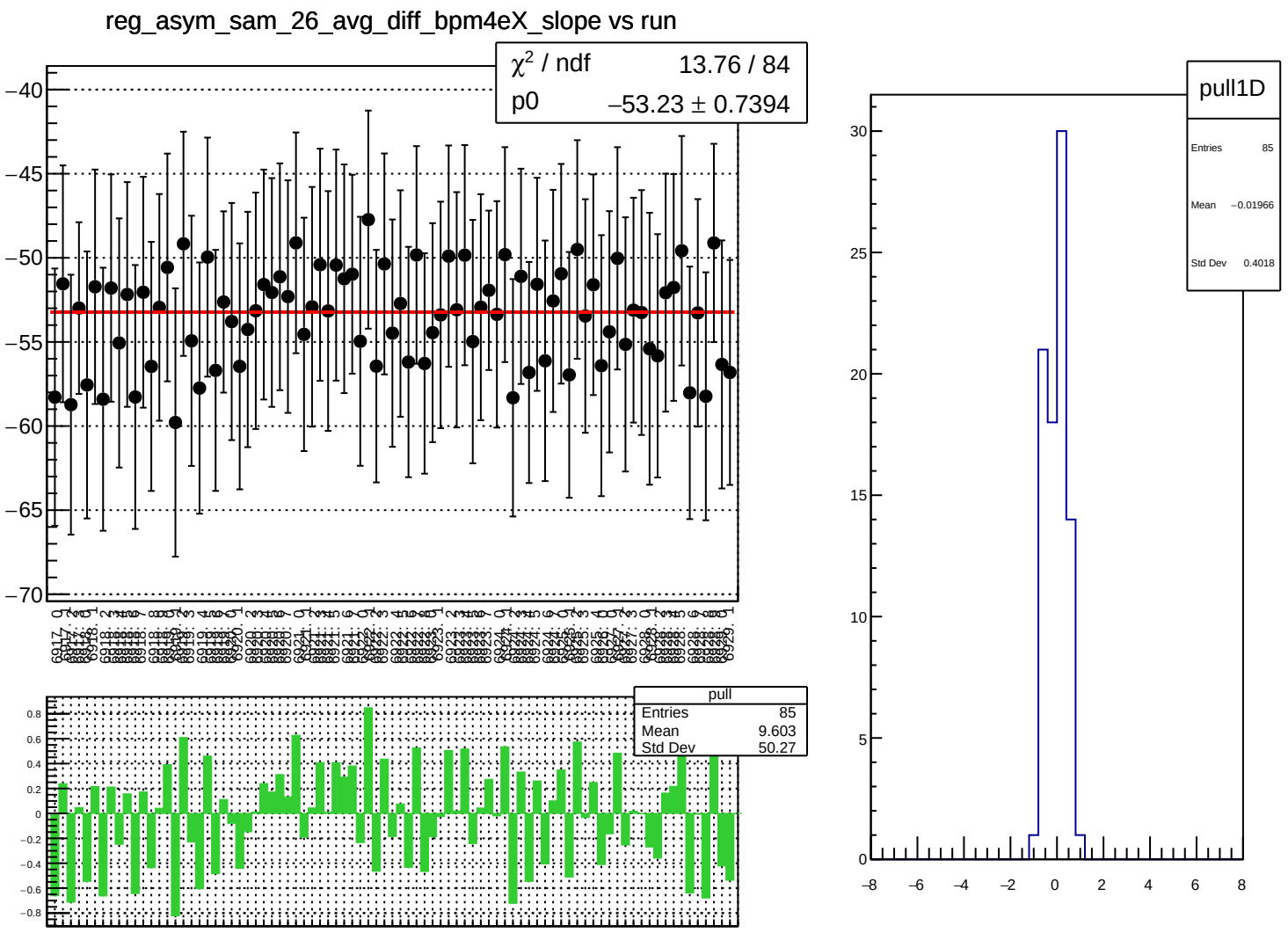

pull1D
Entries 85
Mean 0.002018
Std Dev 0.1759

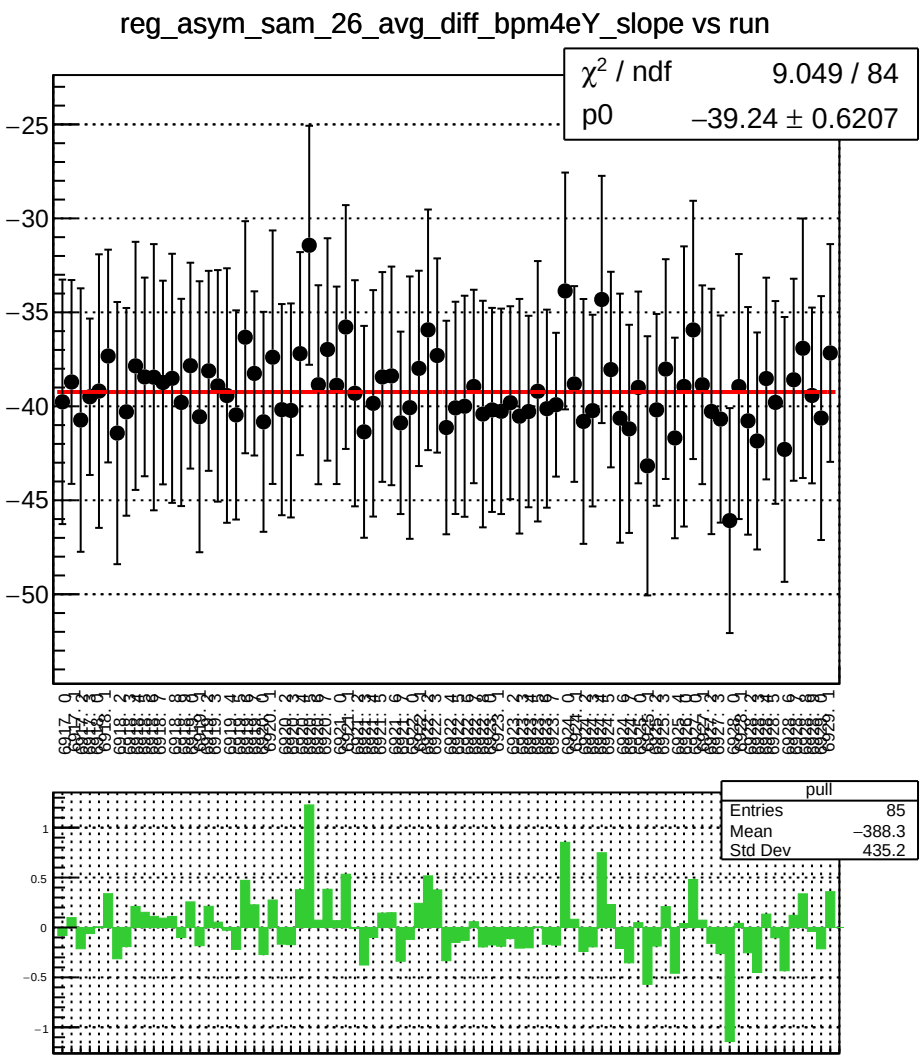

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.572 / 84
p0 −0.147 ± 0.01462
pull
Entries 85
Mean 3290
Std Dev 3245
pull1D
Entries 85
Mean 0.00121
Std Dev 0.2985

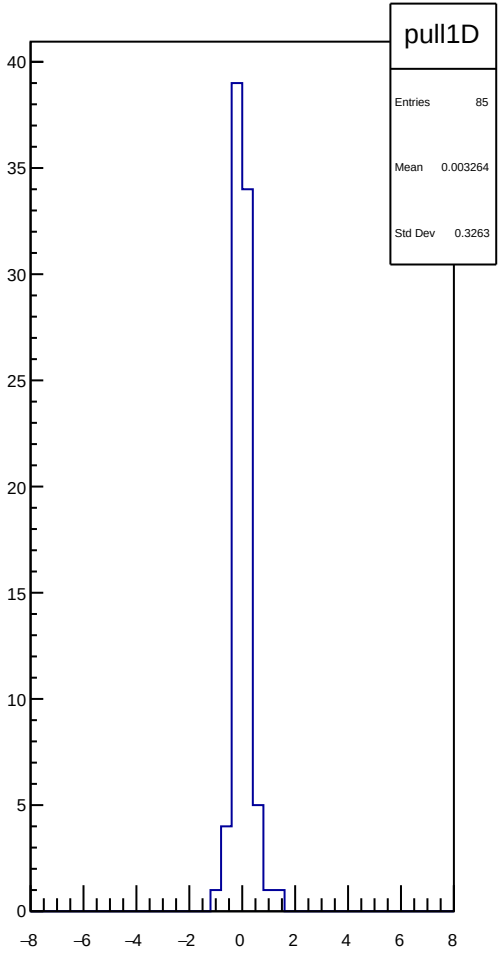

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 8.192 / 84
p0 −11.6 ± 0.7973
pull
Entries 85
Mean −15.12
Std Dev 14.08

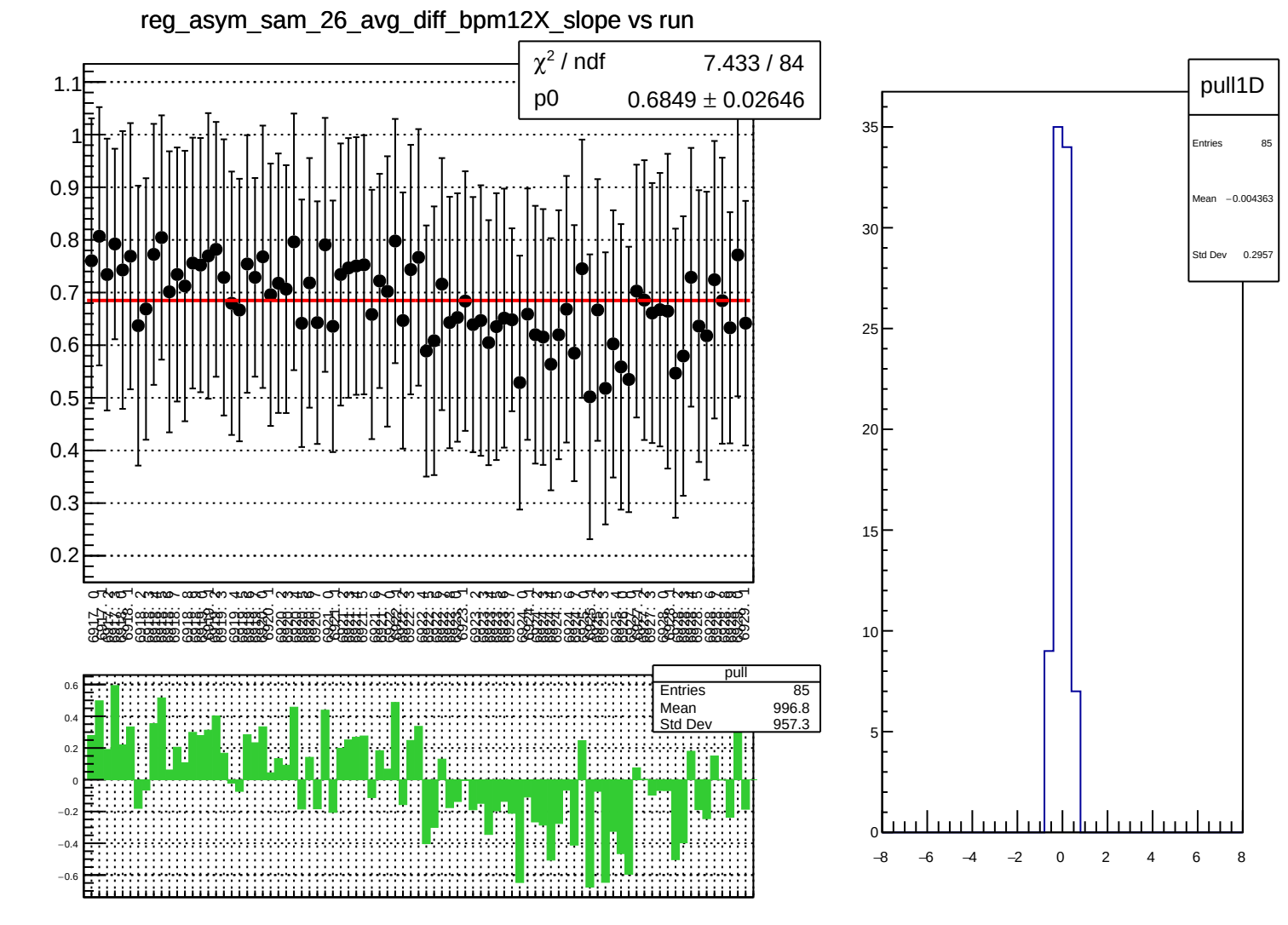

pull1D
Entries 85
Mean 0.01037
Std Dev 0.3103

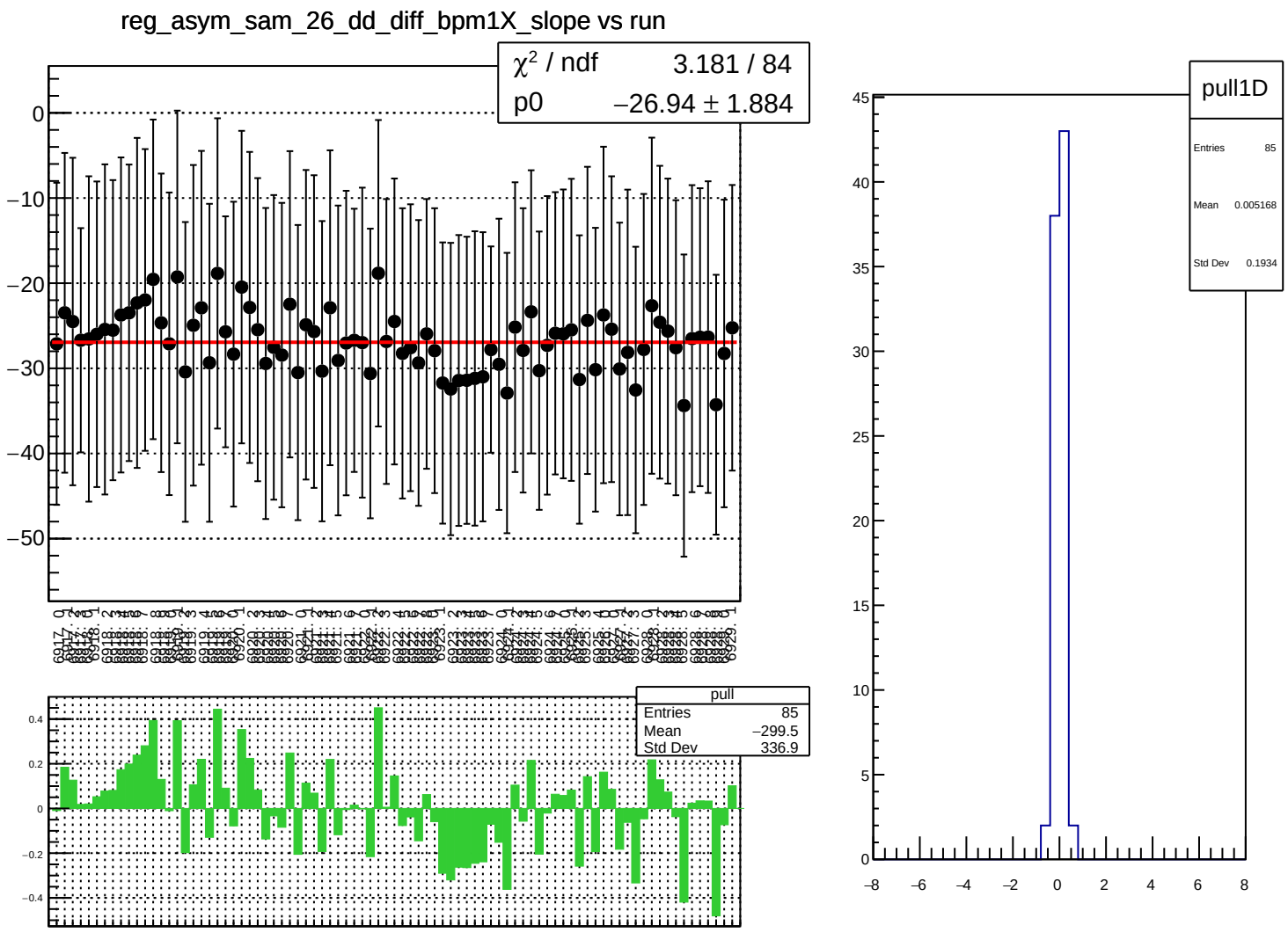

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.973 / 84
p0 4.255 ± 0.5463
pull
Entries 85
Mean −2.309
Std Dev 32.51
pull1D
Entries 85
Mean −0.02511
Std Dev 0.3052

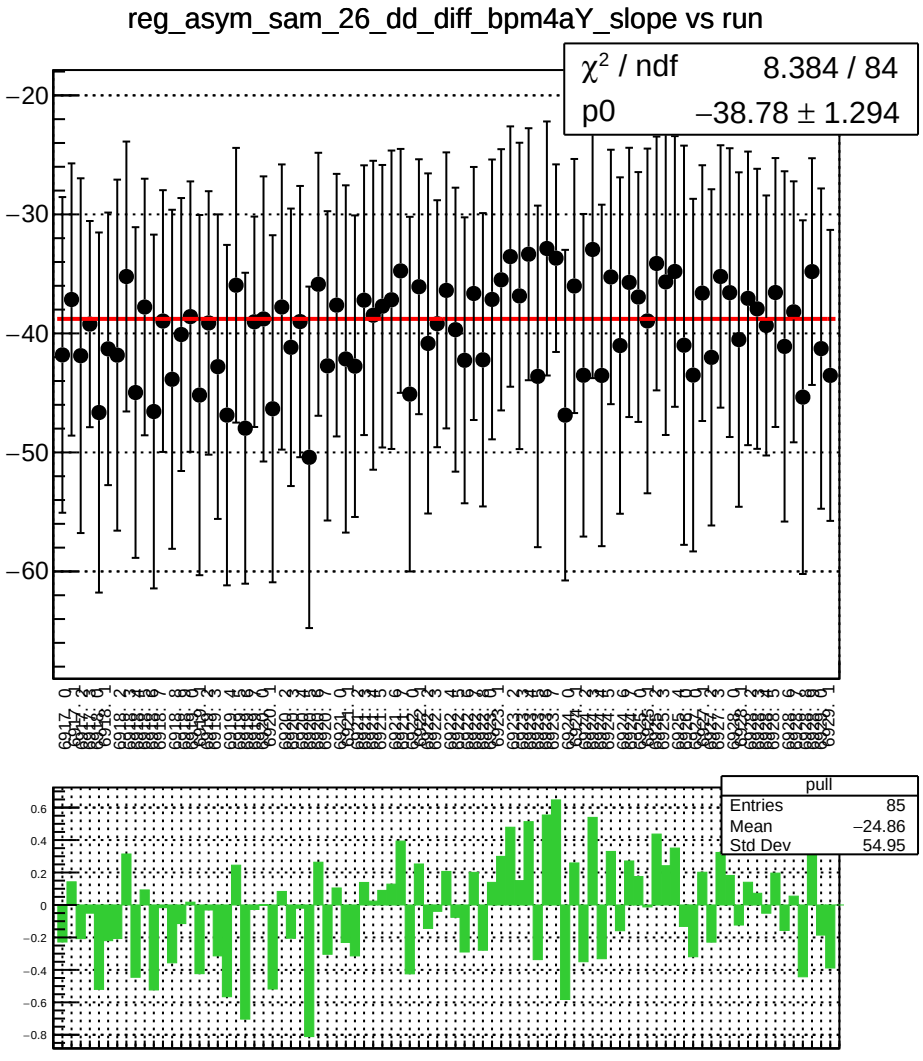

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.76 / 84
p0 −53.23 ± 0.7394
pull
Entries 85
Mean 9.603
Std Dev 50.27
pull1D
Entries 85
Mean −0.01966
Std Dev 0.4018

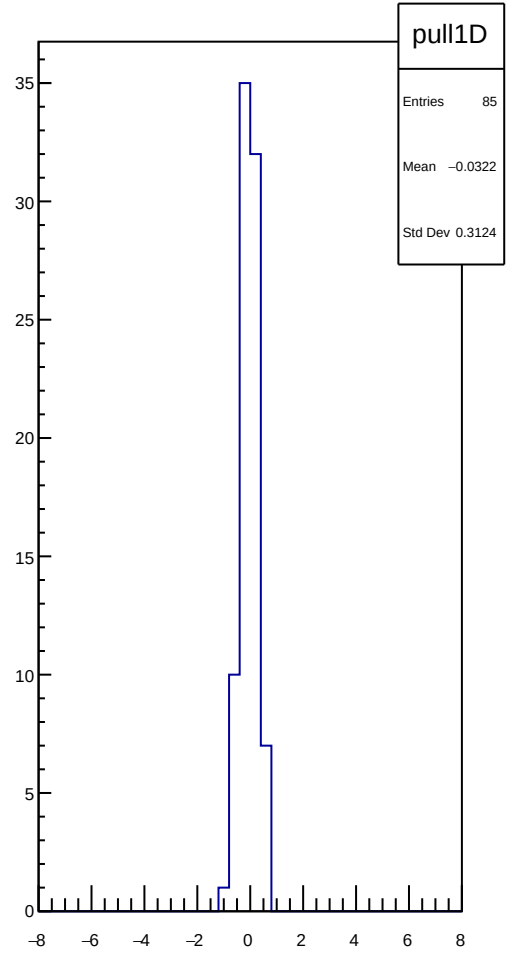

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.049 / 84
p0 −39.24 ± 0.6207
pull
Entries 85
Mean −388.3
Std Dev 435.2

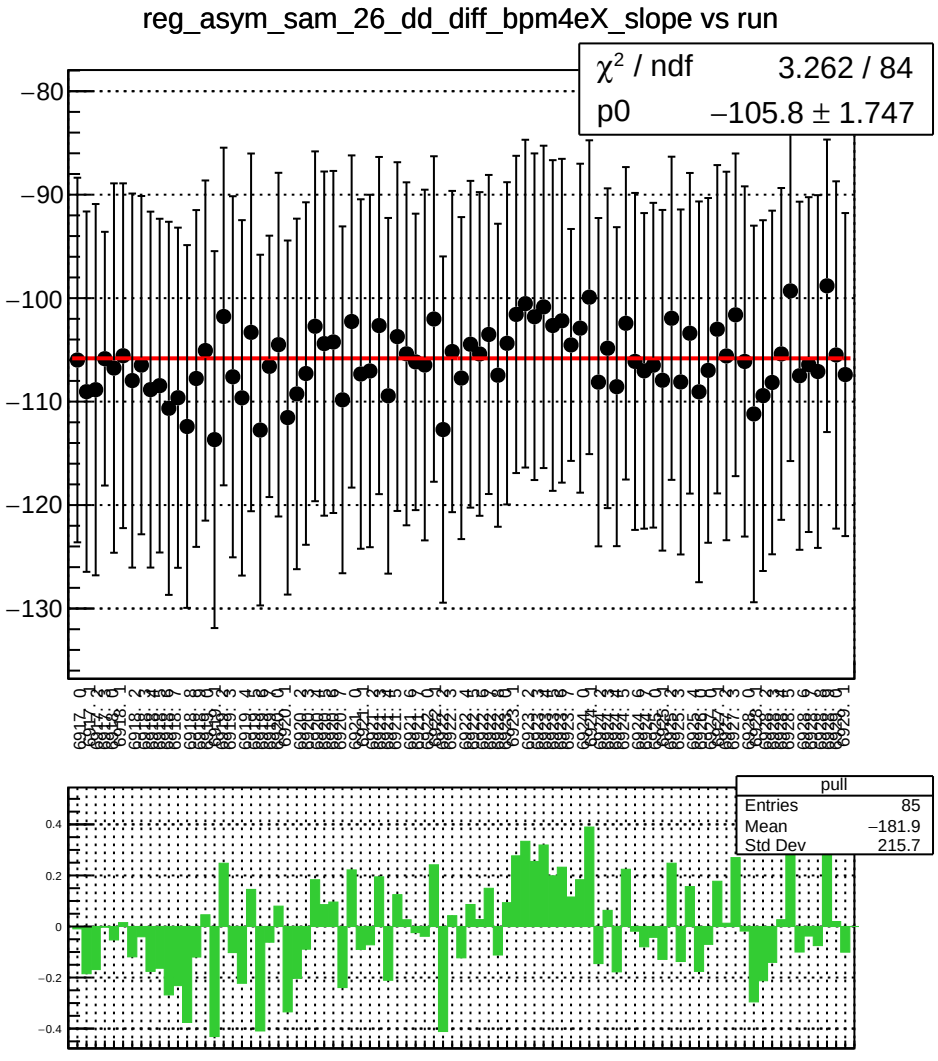

pull1D
Entries 85
Mean 0.003264
Std Dev 0.3263

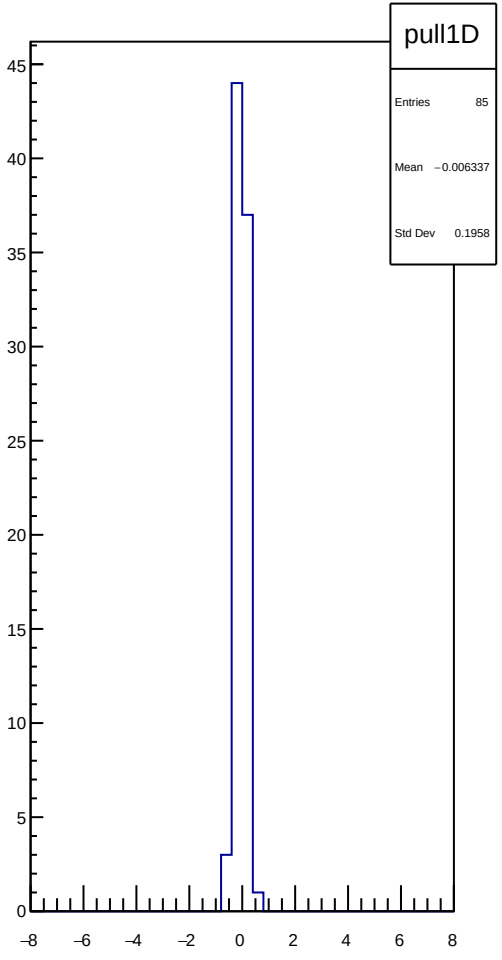

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.433 / 84
p0 0.6849 ± 0.02646
pull
Entries 85
Mean 996.8
Std Dev 957.3
pull1D
Entries 85
Mean −0.004363
Std Dev 0.2957

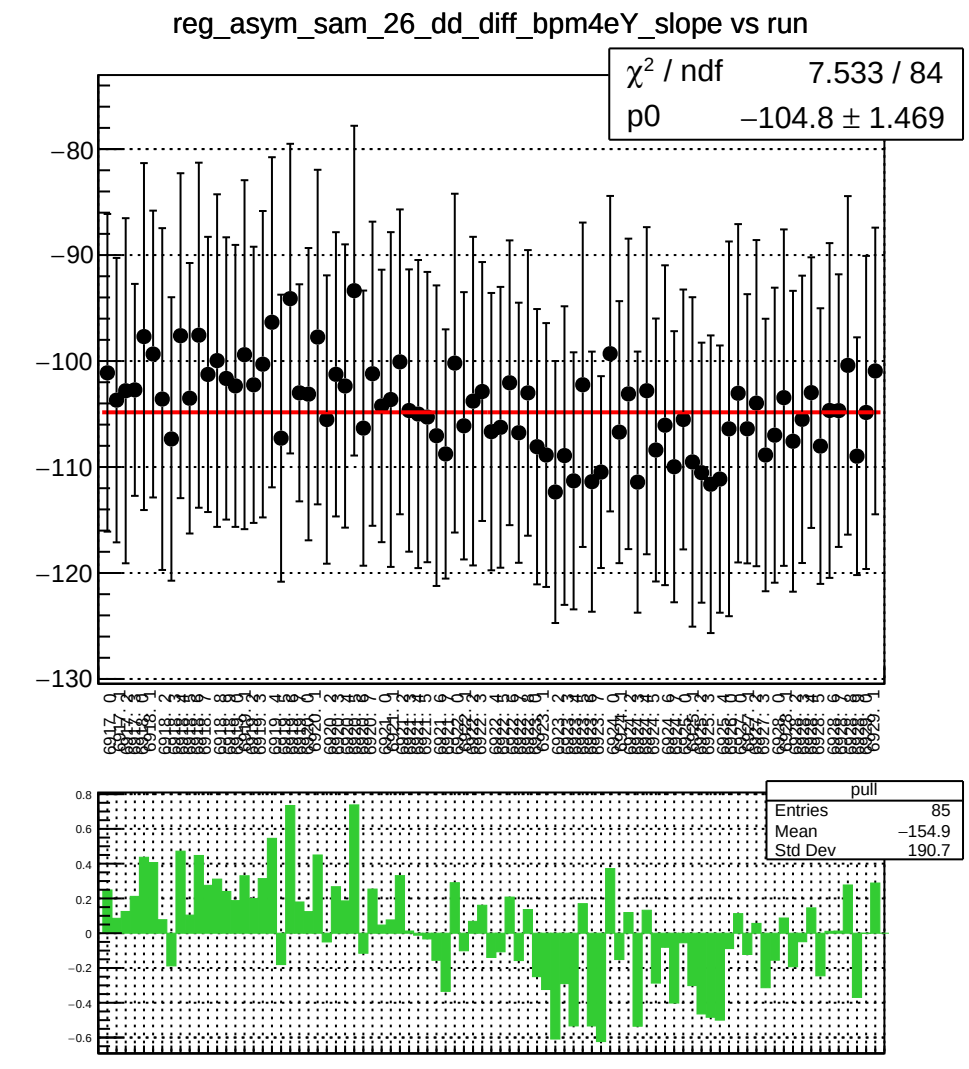

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.181 / 84
p0 −26.94 ± 1.884
pull
Entries 85
Mean −299.5
Std Dev 336.9
pull1D
Entries 85
Mean 0.005168
Std Dev 0.1934

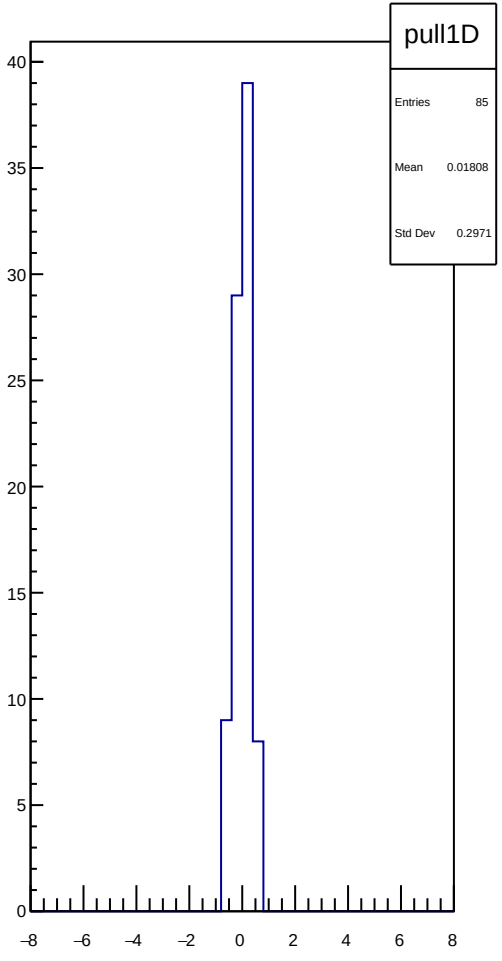

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.384 / 84
p0 −38.78 ± 1.294
pull
Entries 85
Mean −24.86
Std Dev 54.95

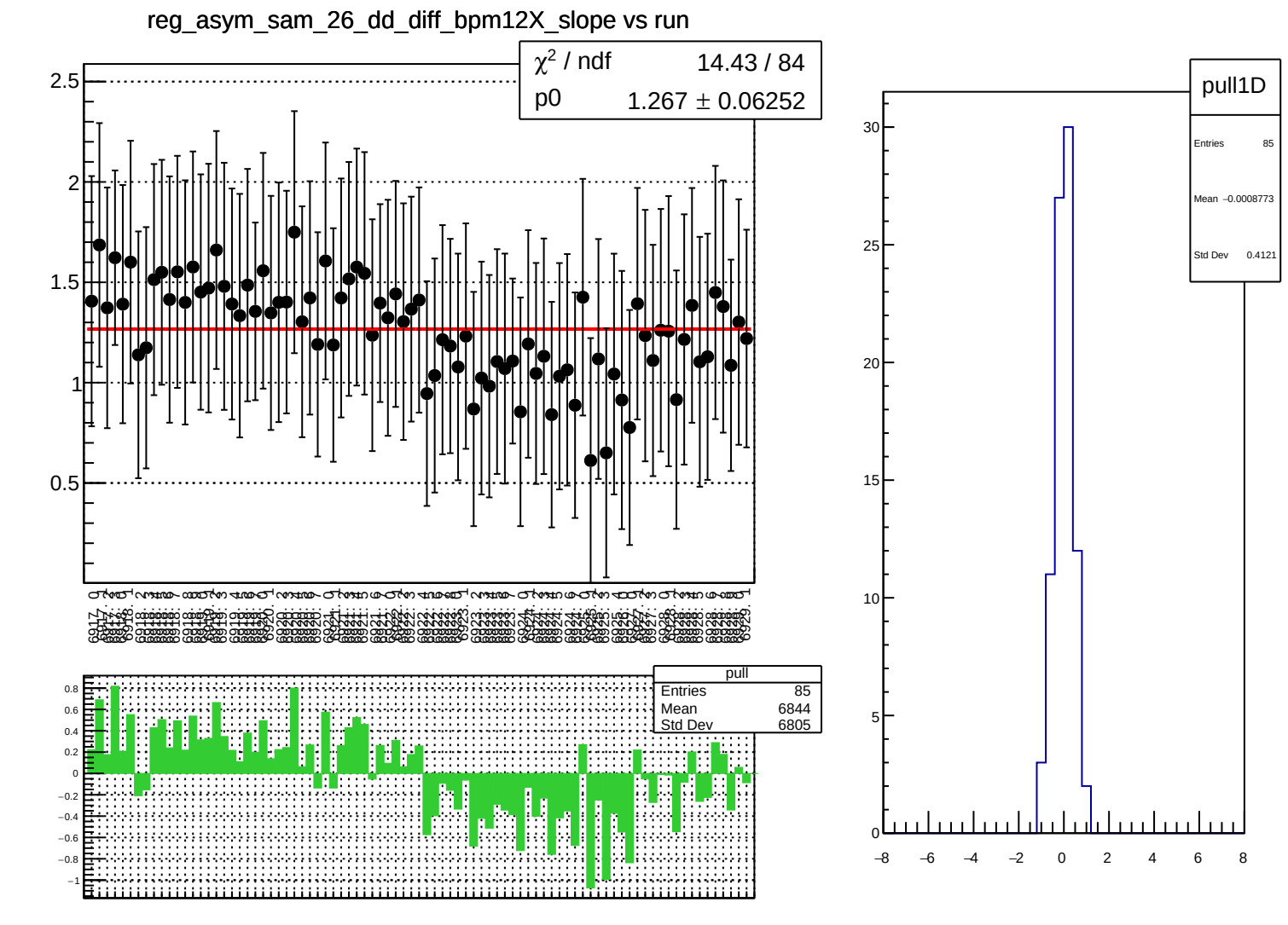

pull1D
Entries 85
Mean −0.0322
Std Dev 0.3124

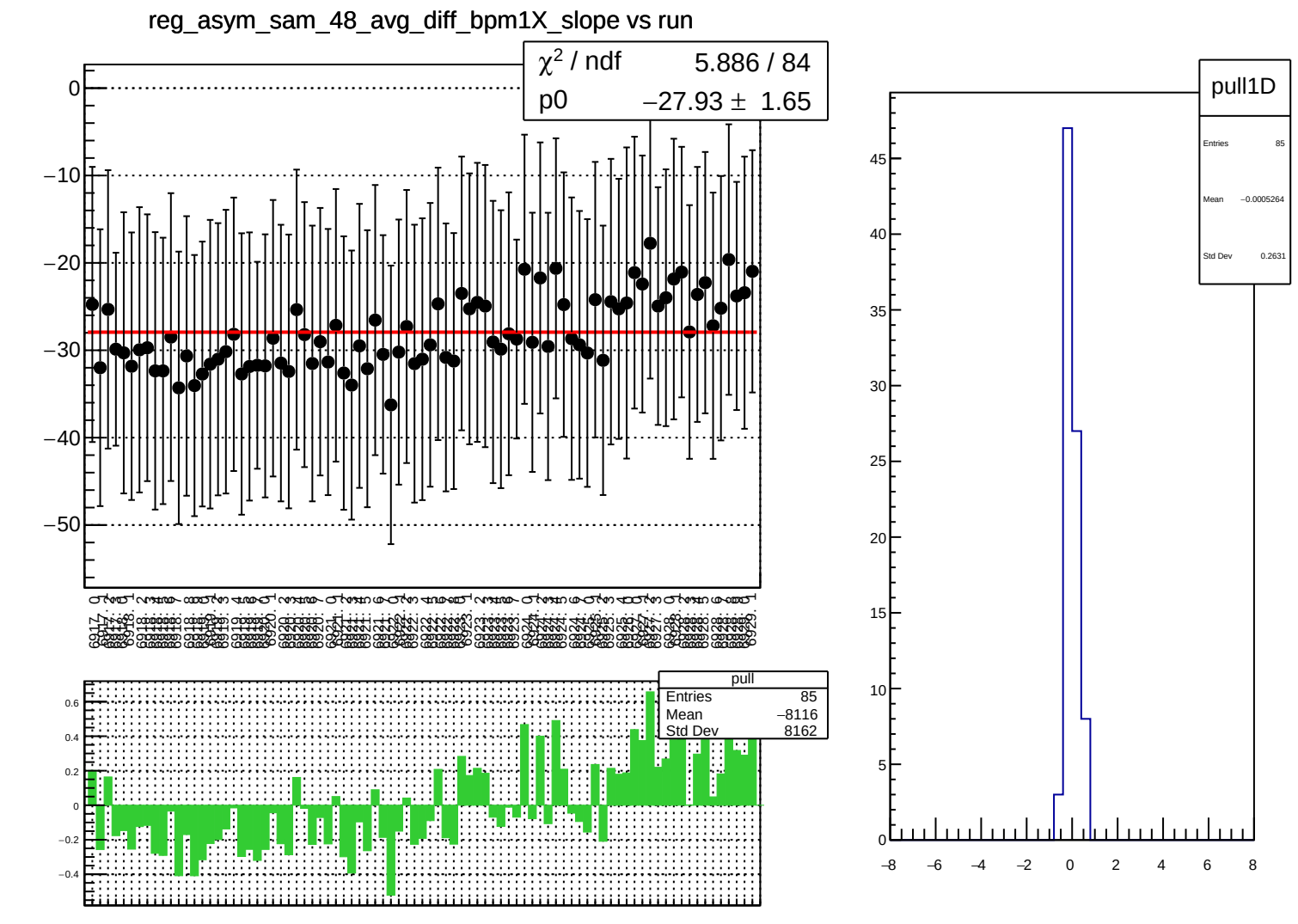

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.262 / 84
p0 −105.8 ± 1.747
pull
Entries 85
Mean −181.9
Std Dev 215.7

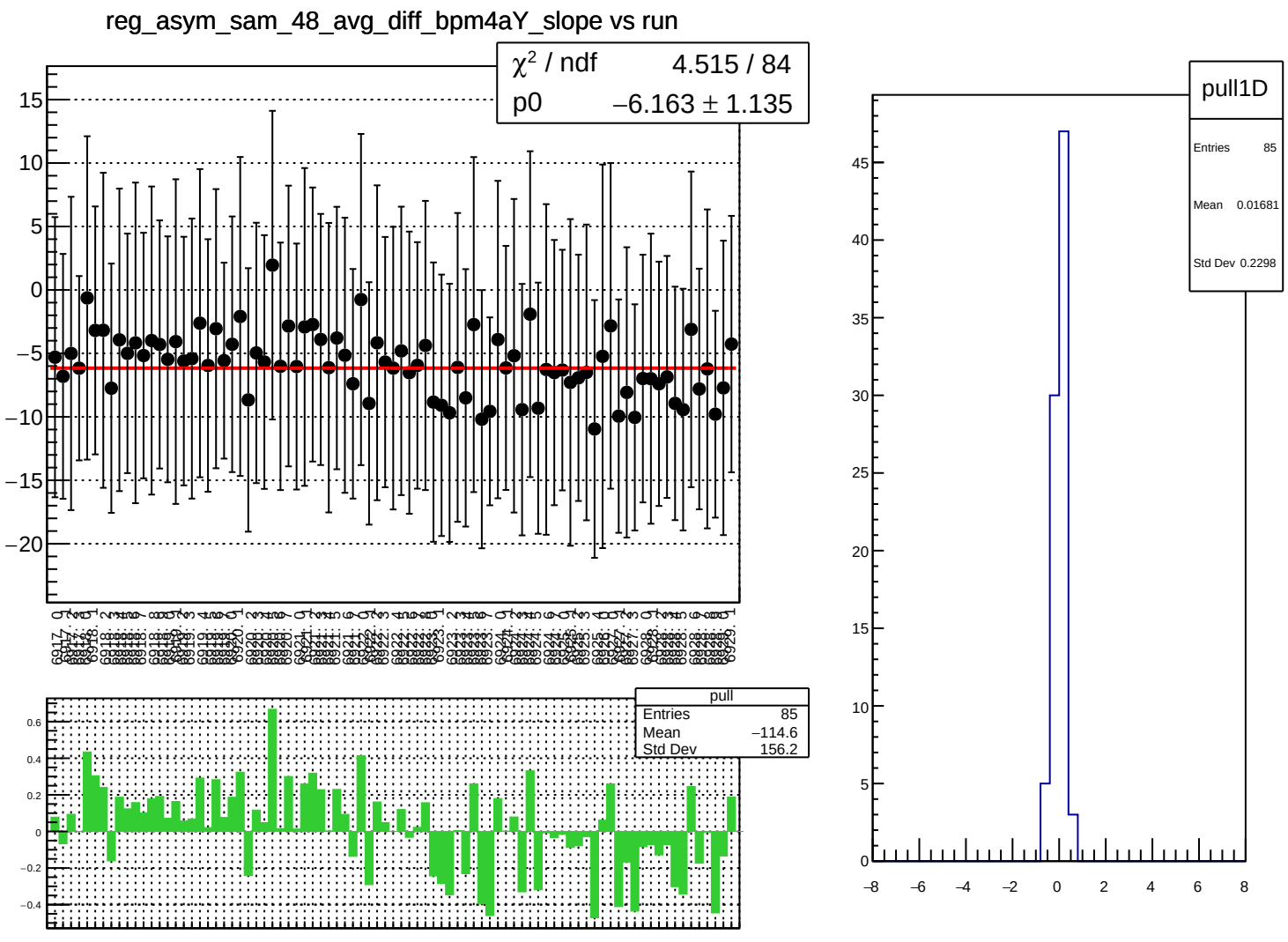

pull1D
Entries 85
Mean −0.006337
Std Dev 0.1958

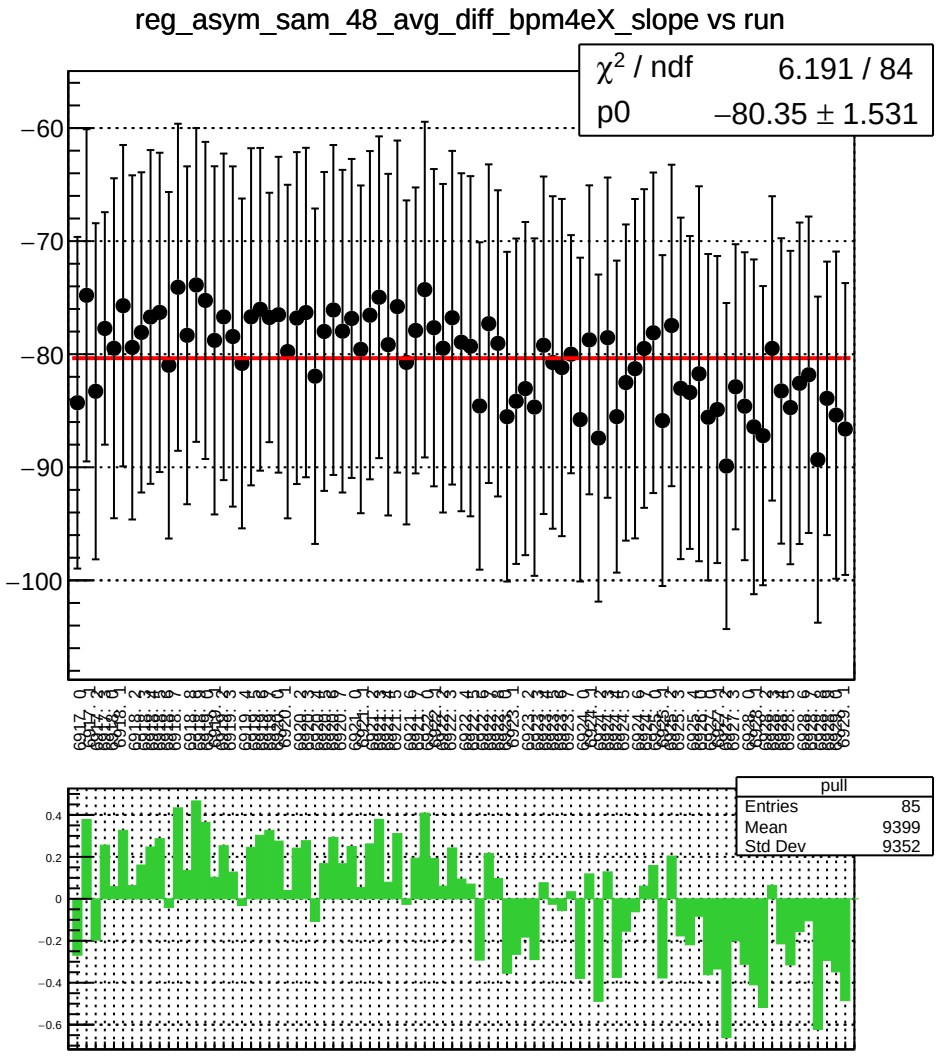

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.533 / 84
p0 −104.8 ± 1.469
pull
Entries 85
Mean −154.9
Std Dev 190.7

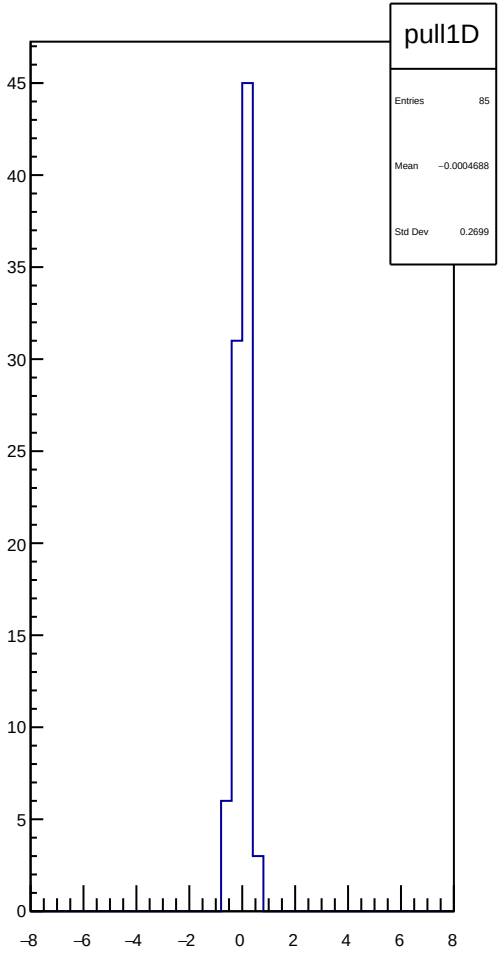

pull1D
Entries 85
Mean 0.01808
Std Dev 0.2971

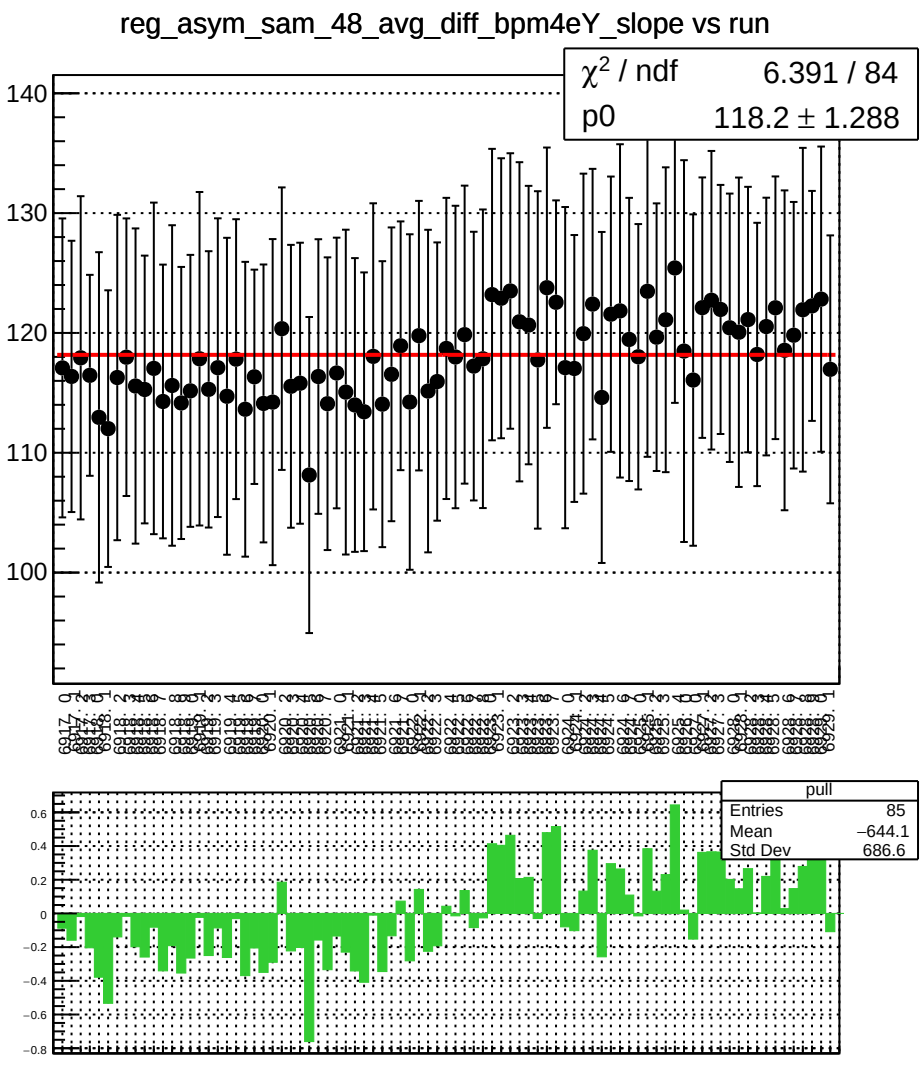

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.43 / 84
p0 1.267 ± 0.06252
pull
Entries 85
Mean 6844
Std Dev 6805
pull1D
Entries 85
Mean −0.0008773
Std Dev 0.4121

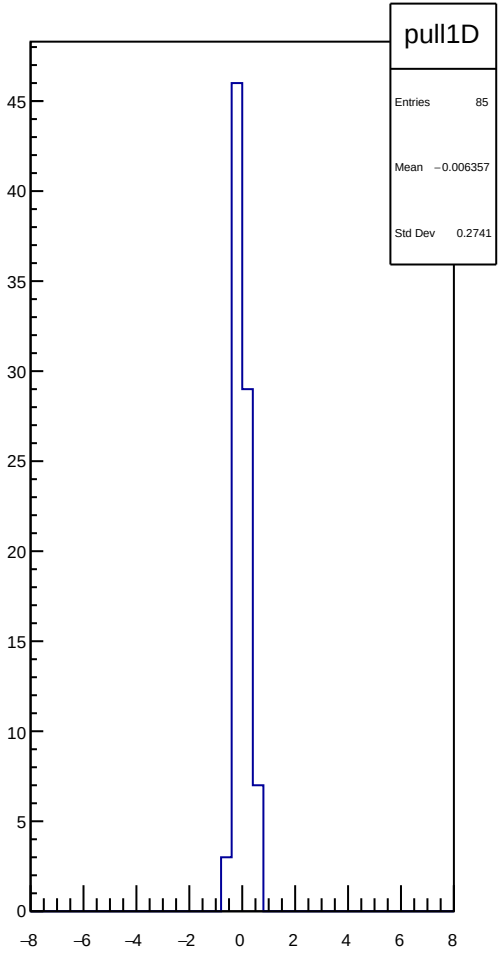

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 5.886 / 84
p0 −27.93 ± 1.65
pull
Entries 85
Mean −8116
Std Dev 8162
pull1D
Entries 85
Mean −0.0005264
Std Dev 0.2631

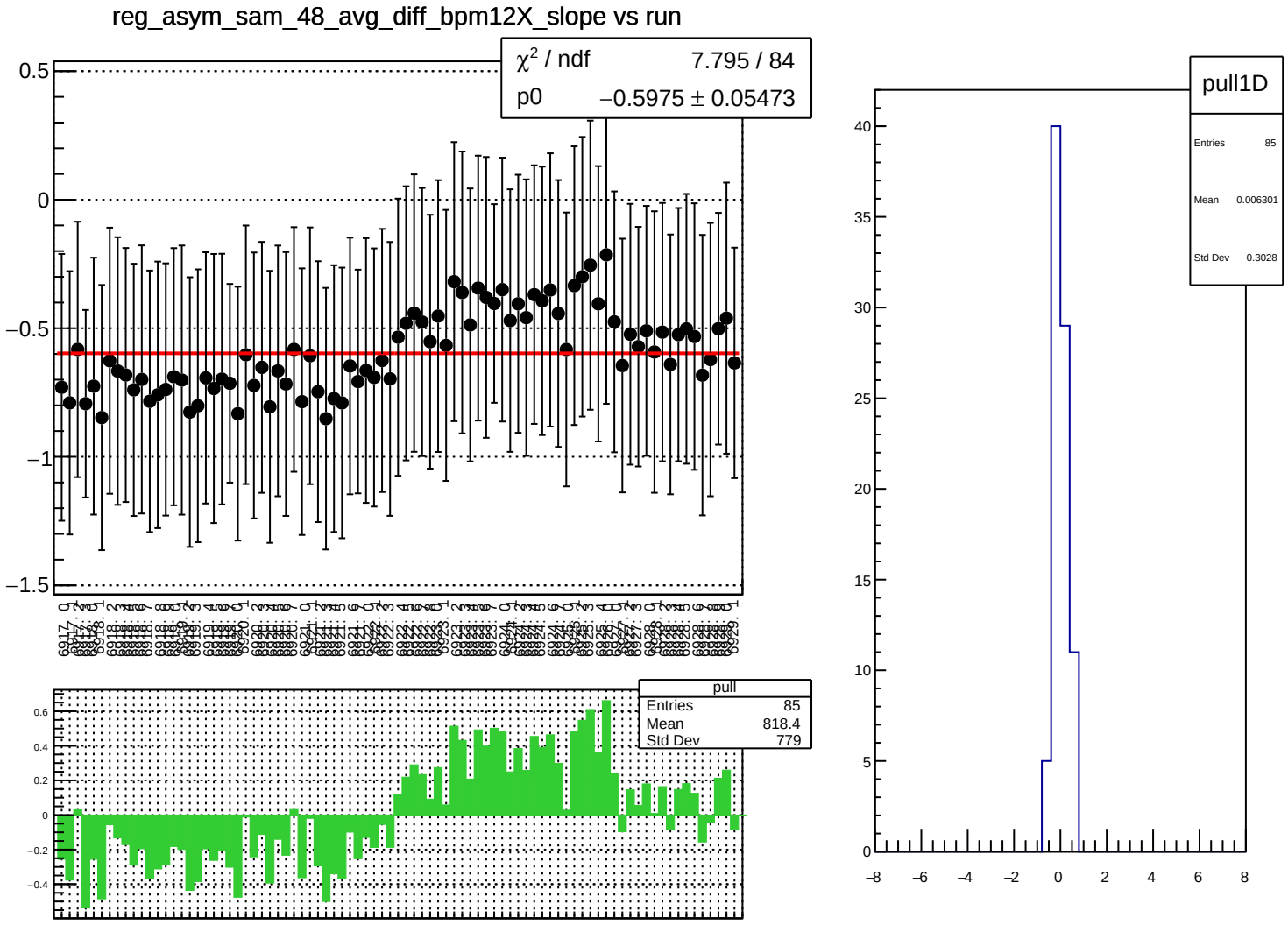

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.515 / 84
p0 −6.163 ± 1.135
pull
Entries 85
Mean −114.6
Std Dev 156.2
pull1D
Entries 85
Mean 0.01681
Std Dev 0.2298

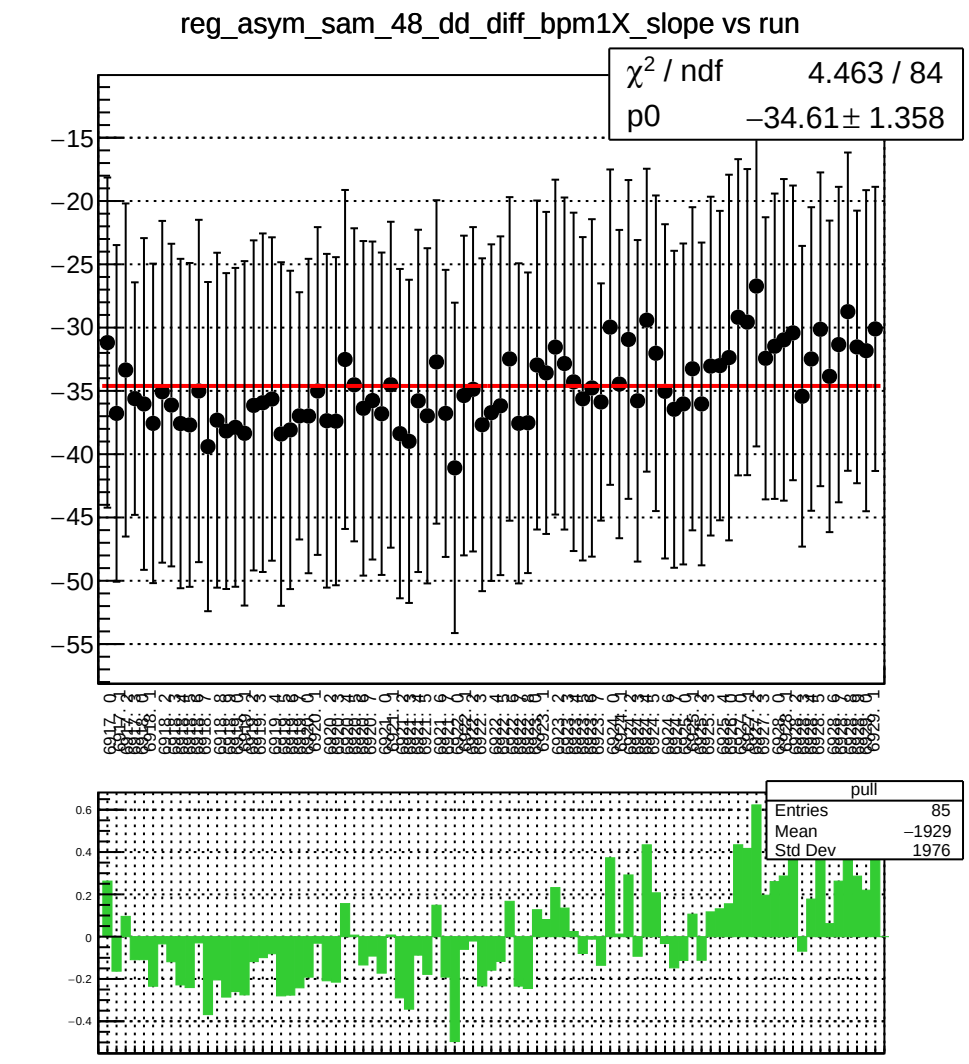

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.191 / 84
p0 −80.35 ± 1.531
pull
Entries 85
Mean 9399
Std Dev 9352

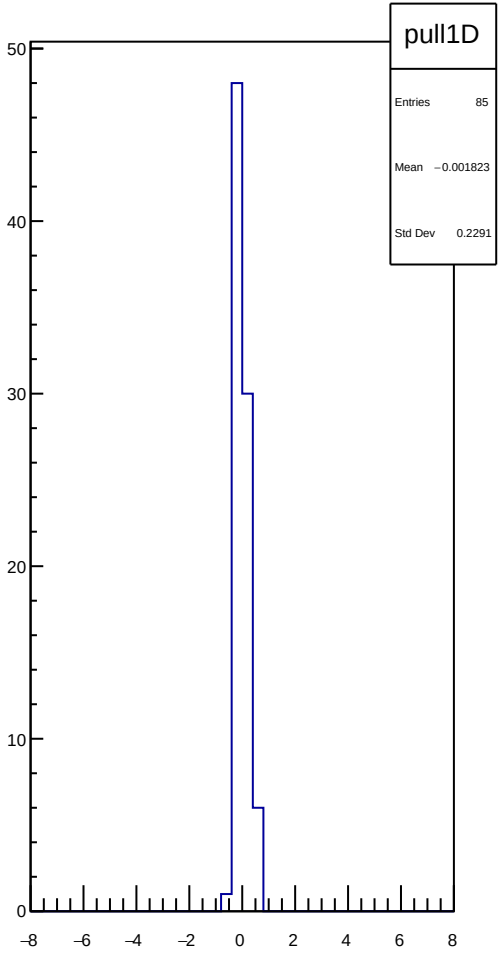

pull1D
Entries 85
Mean −0.0004688
Std Dev 0.2699

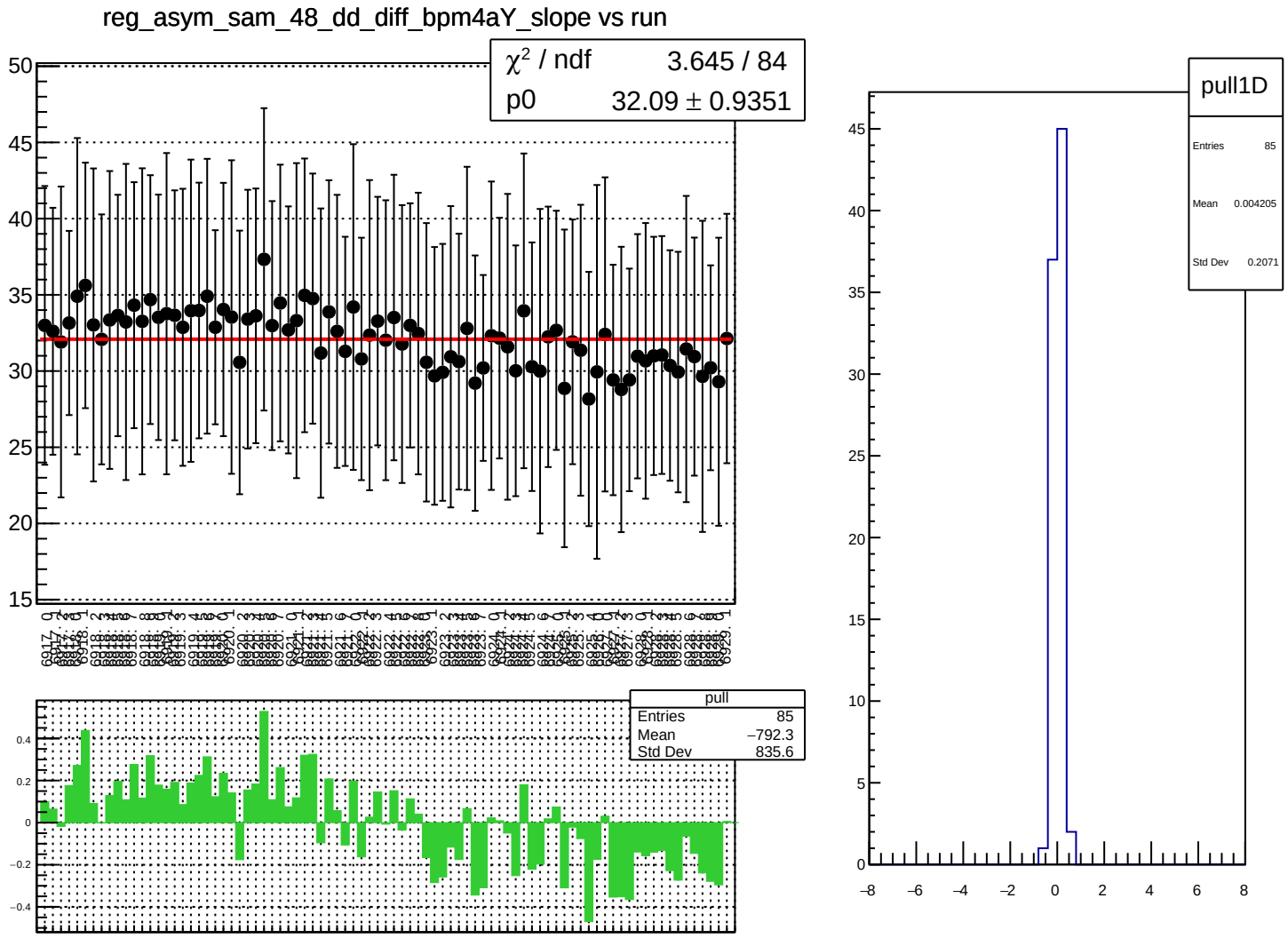

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.391 / 84
p0 118.2 ± 1.288
pull
Entries 85
Mean −644.1
Std Dev 686.6

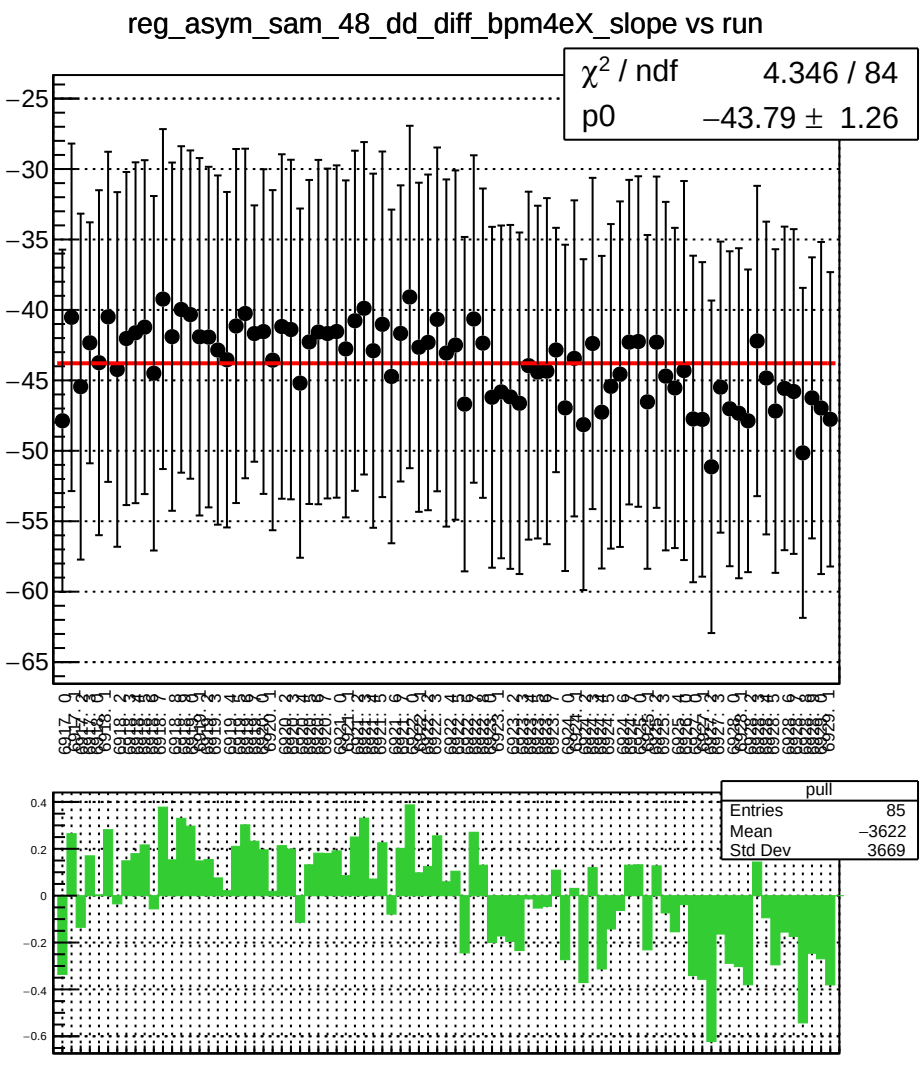

pull1D
Entries 85
Mean −0.006357
Std Dev 0.2741

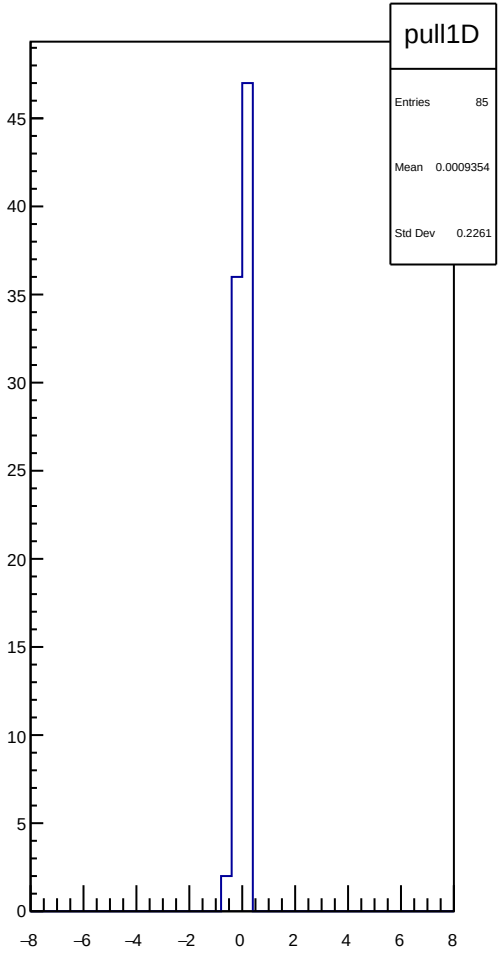

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 7.795 / 84
p0 −0.5975 ± 0.05473
pull
Entries 85
Mean 818.4
Std Dev 779
pull1D
Entries 85
Mean 0.006301
Std Dev 0.3028

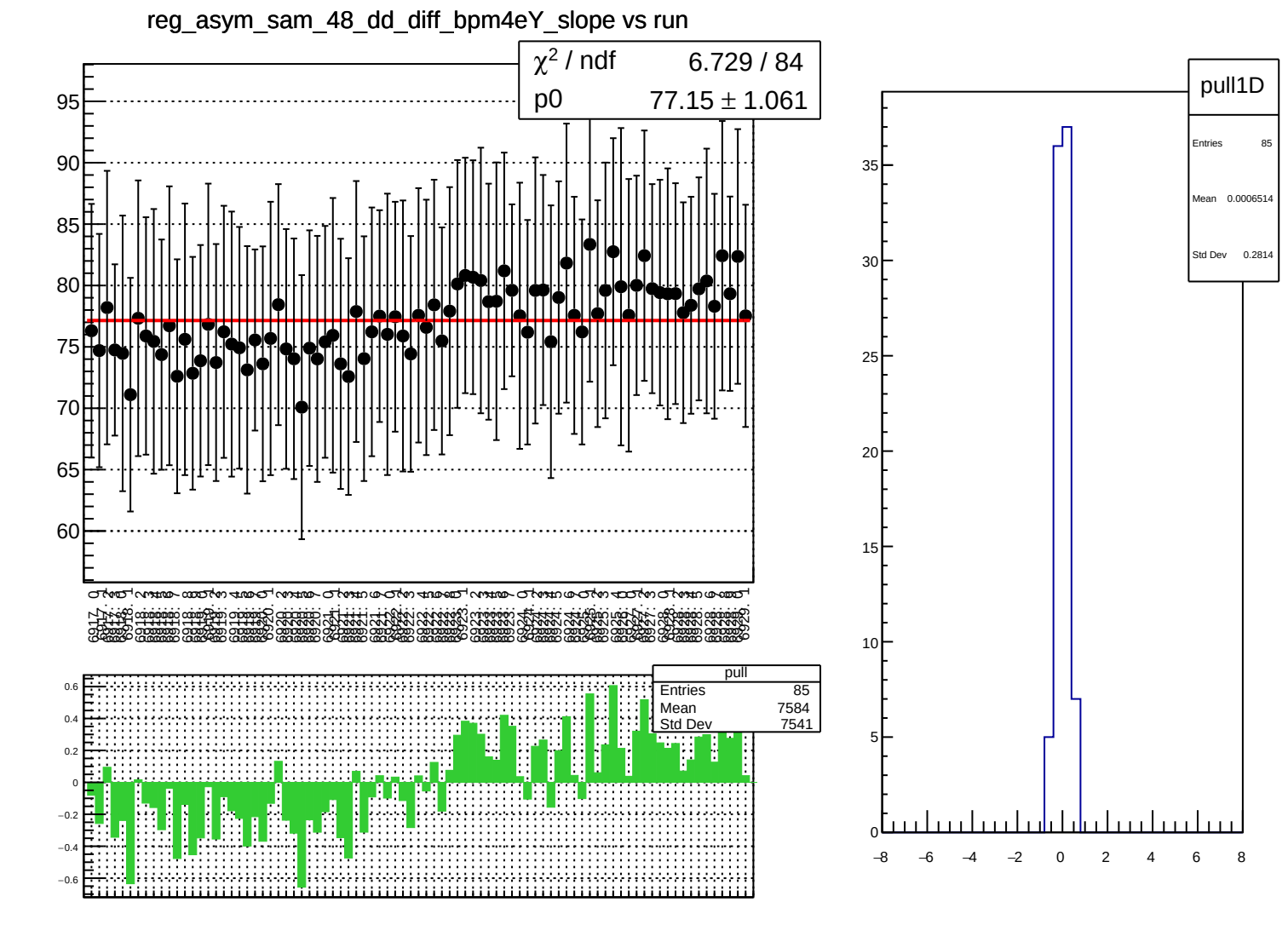

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.463 / 84
p0 −34.61 ± 1.358
pull
Entries 85
Mean −1929
Std Dev 1976

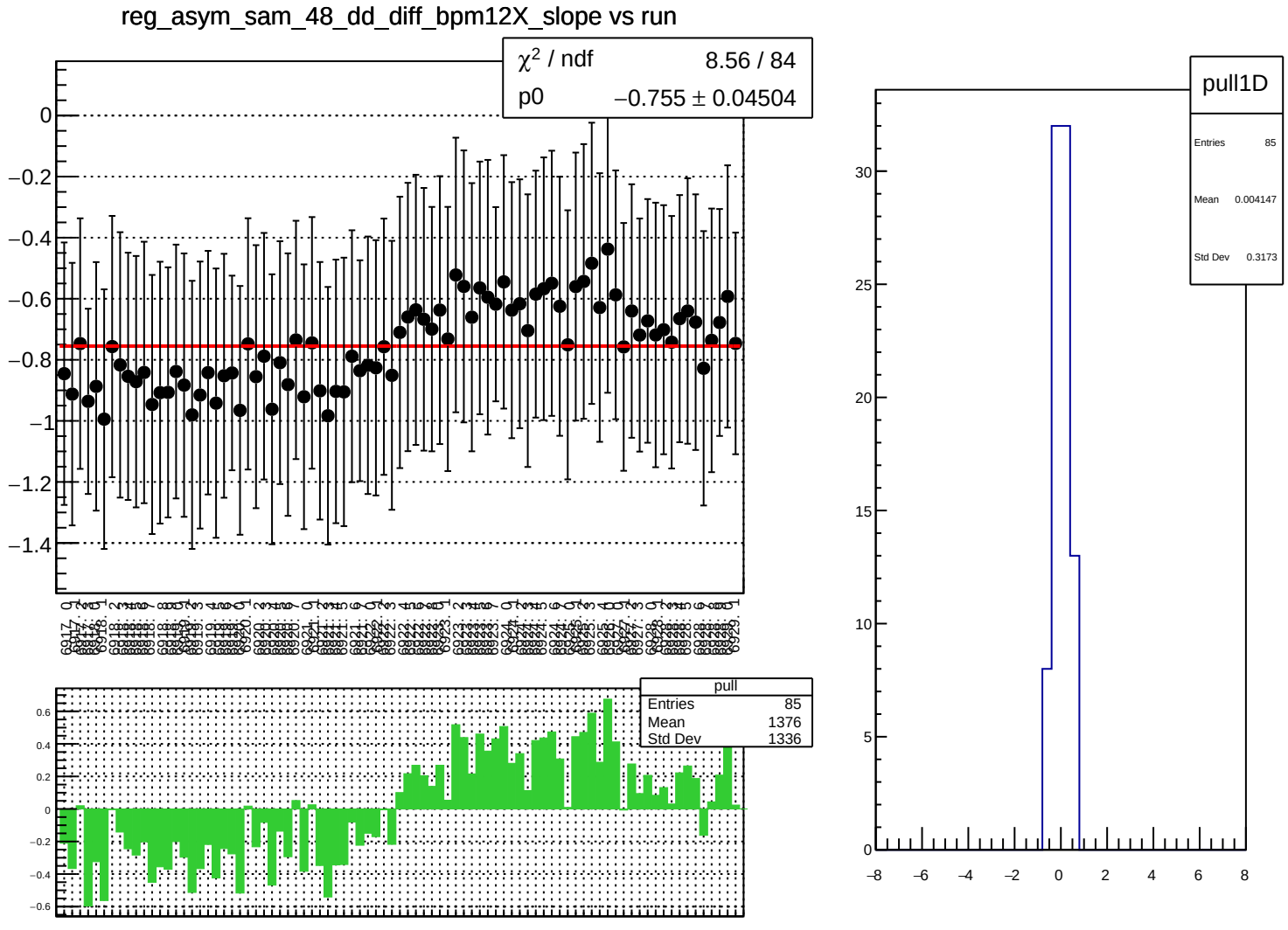

pull1D
Entries 85
Mean −0.001823
Std Dev 0.2291

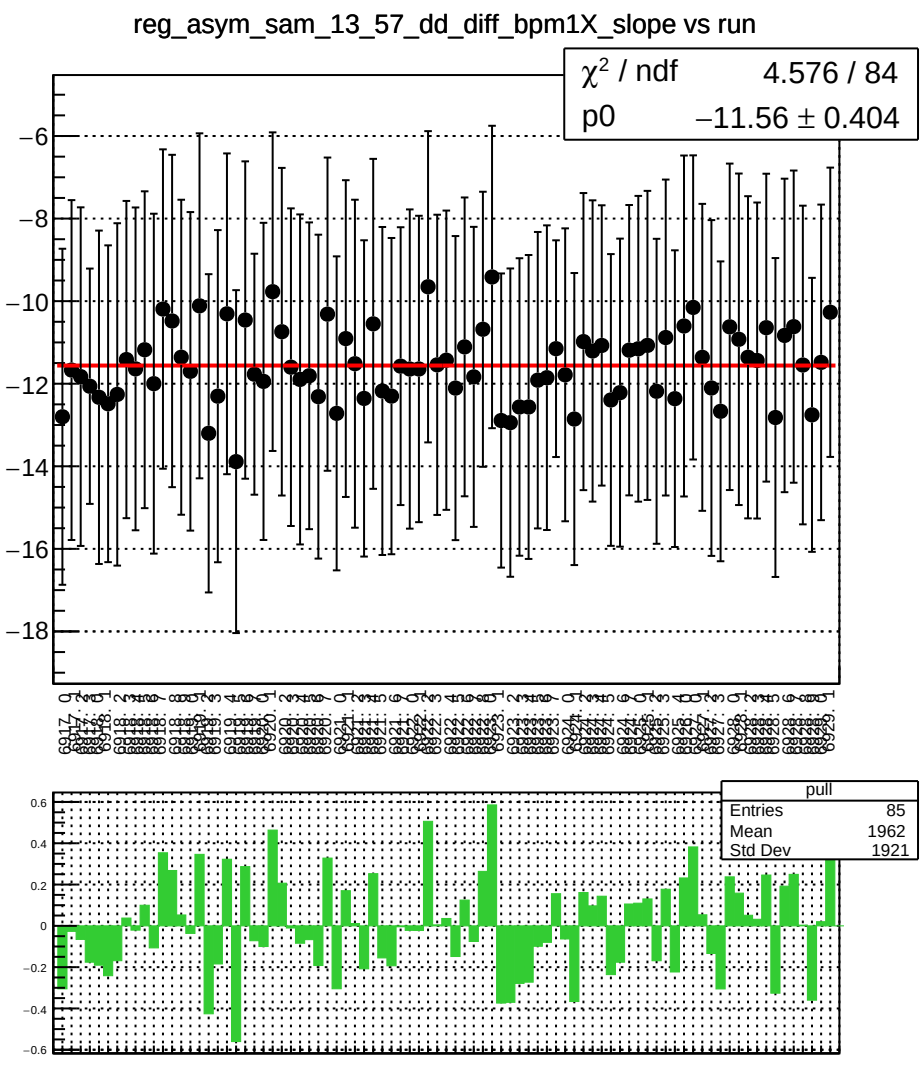

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.645 / 84
p0 32.09 ± 0.9351
pull
Entries 85
Mean −792.3
Std Dev 835.6
pull1D
Entries 85
Mean 0.004205
Std Dev 0.2071

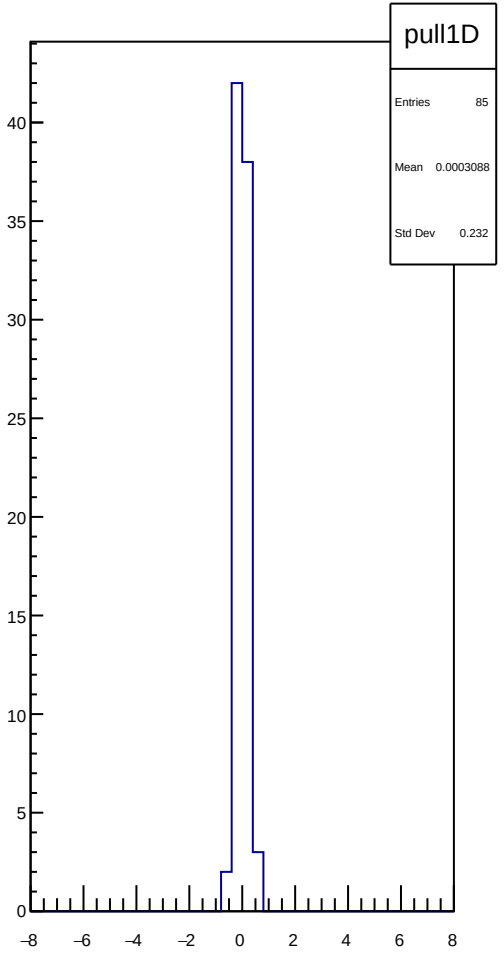

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.346 / 84
p0 −43.79 ± 1.26
pull
Entries 85
Mean −3622
Std Dev 3669

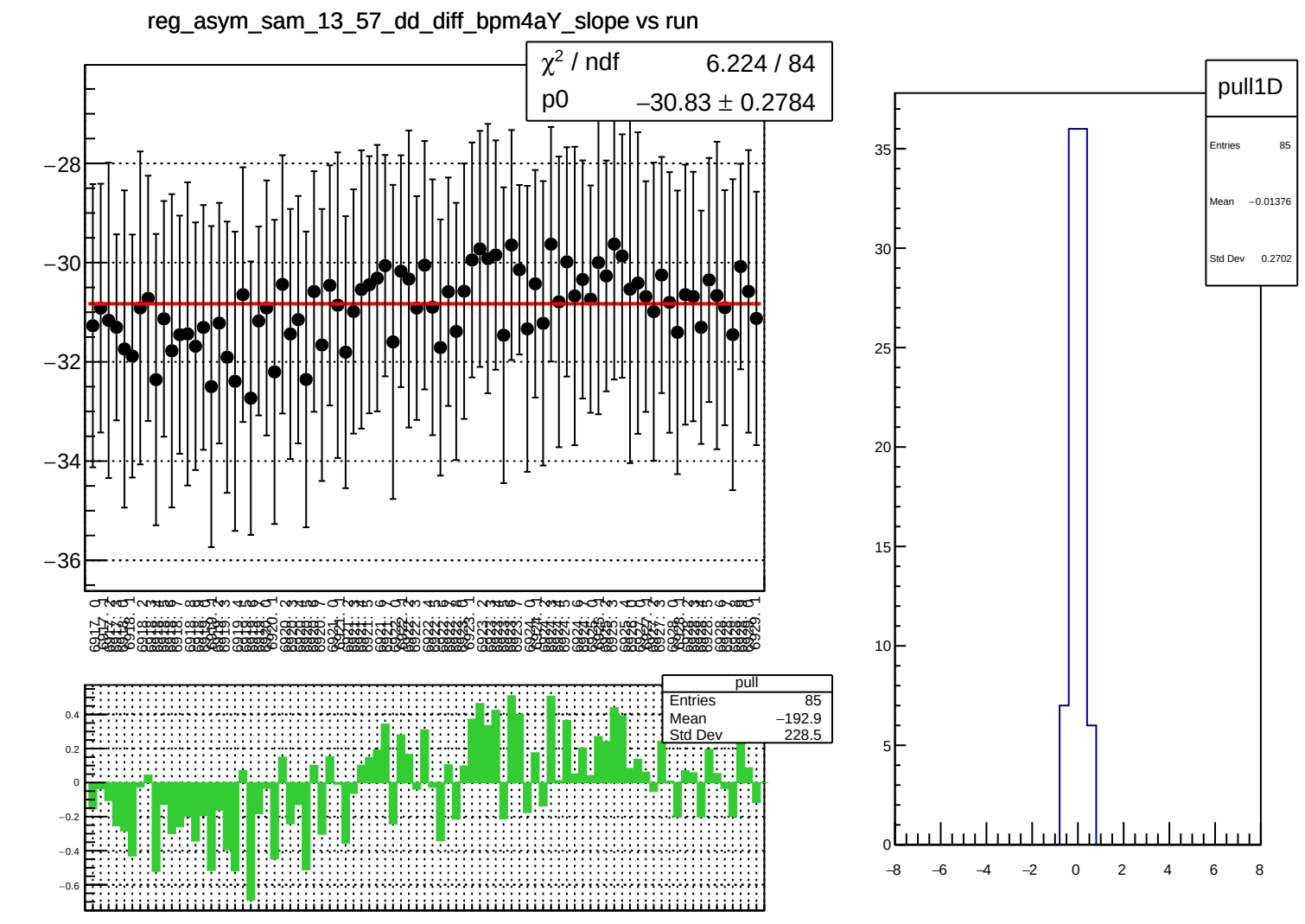

pull1D
Entries 85
Mean 0.0009354
Std Dev 0.2261

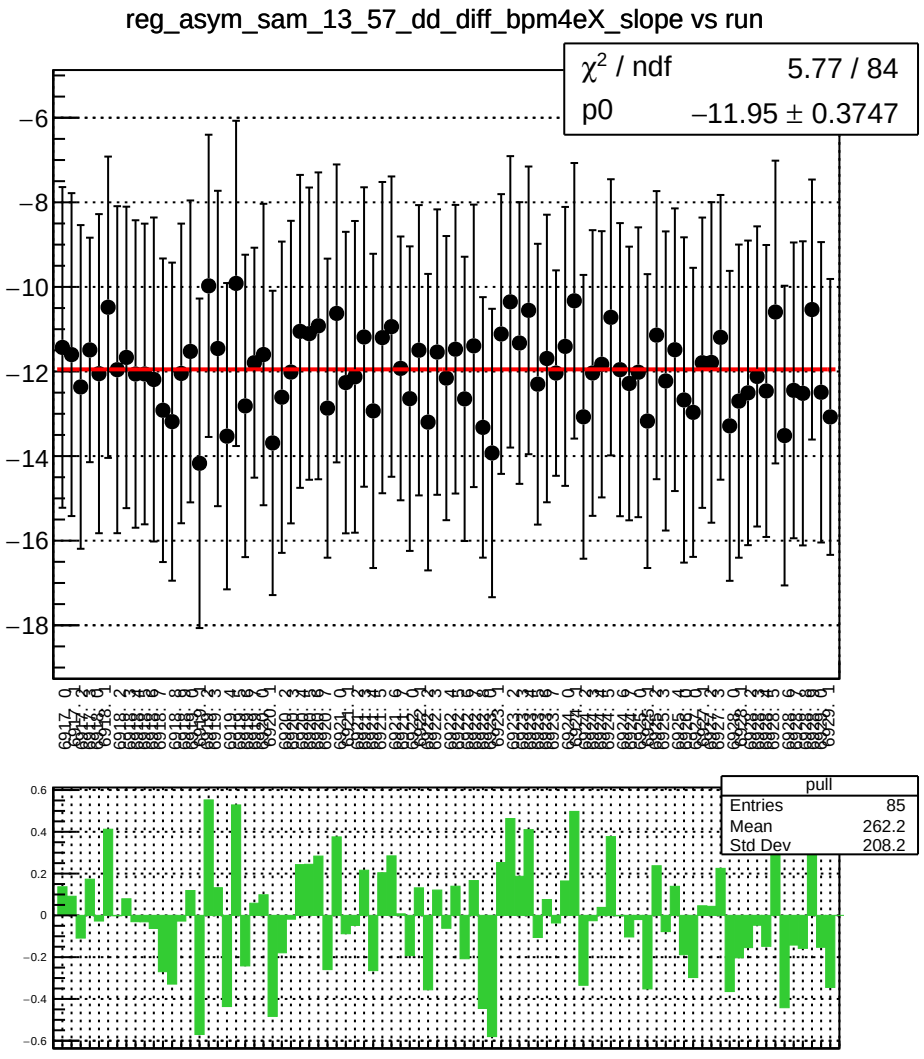

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.729 / 84
p0 77.15 ± 1.061
pull
Entries 85
Mean 7584
Std Dev 7541
pull1D
Entries 85
Mean 0.0006514
Std Dev 0.2814

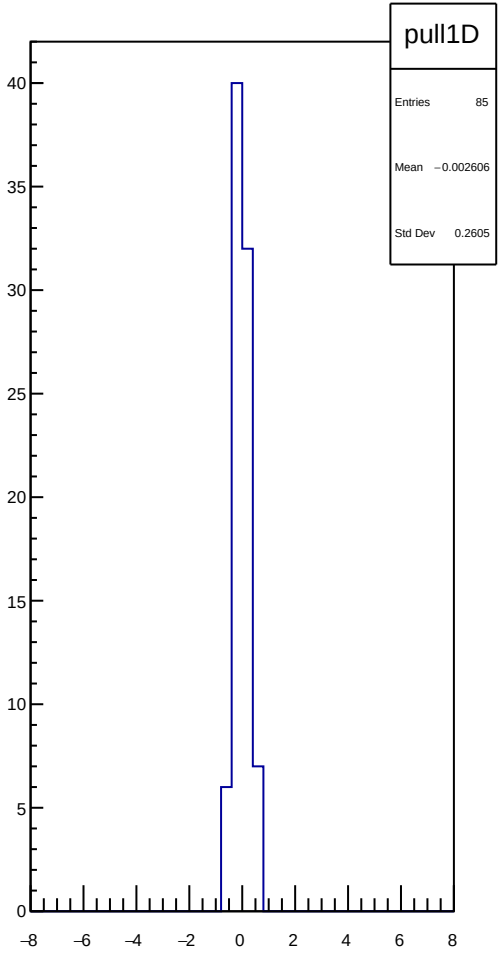

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.56 / 84
p0 −0.755 ± 0.04504
pull
Entries 85
Mean 1376
Std Dev 1336
pull1D
Entries 85
Mean 0.004147
Std Dev 0.3173

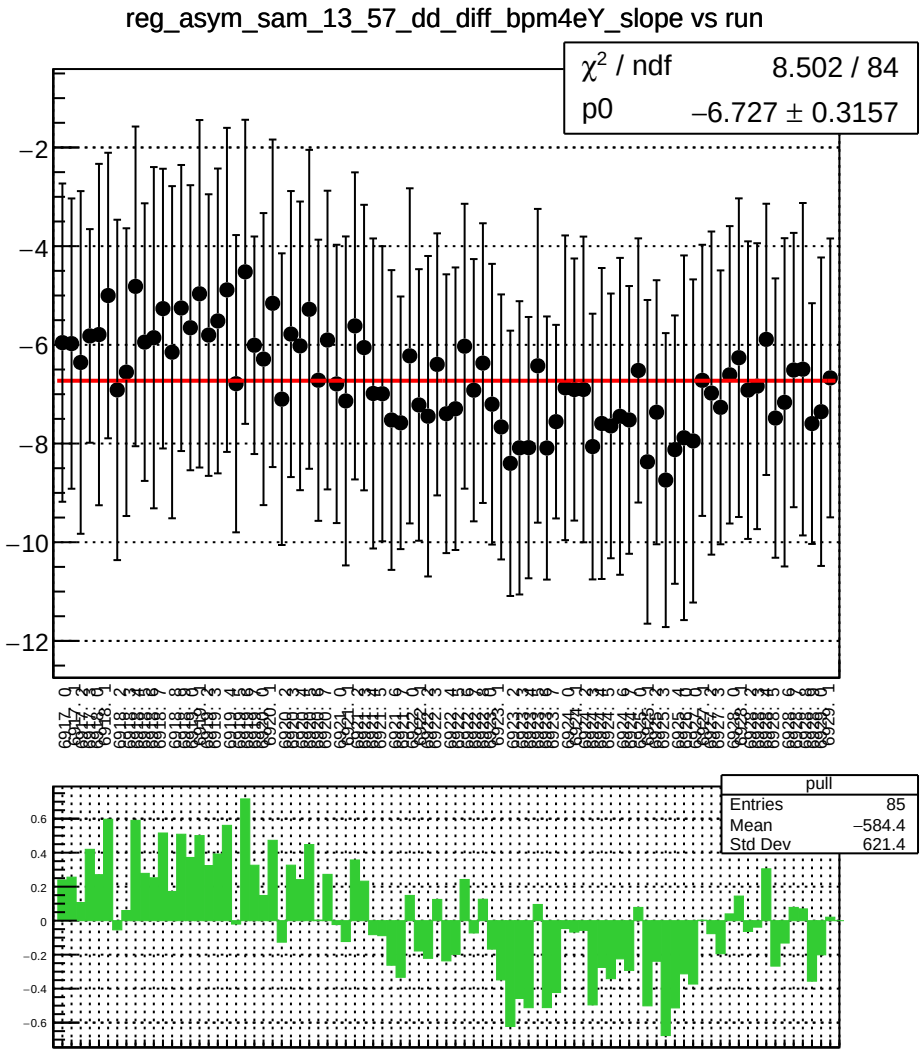

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 4.576 / 84
p0 −11.56 ± 0.404
pull
Entries 85
Mean 1962
Std Dev 1921

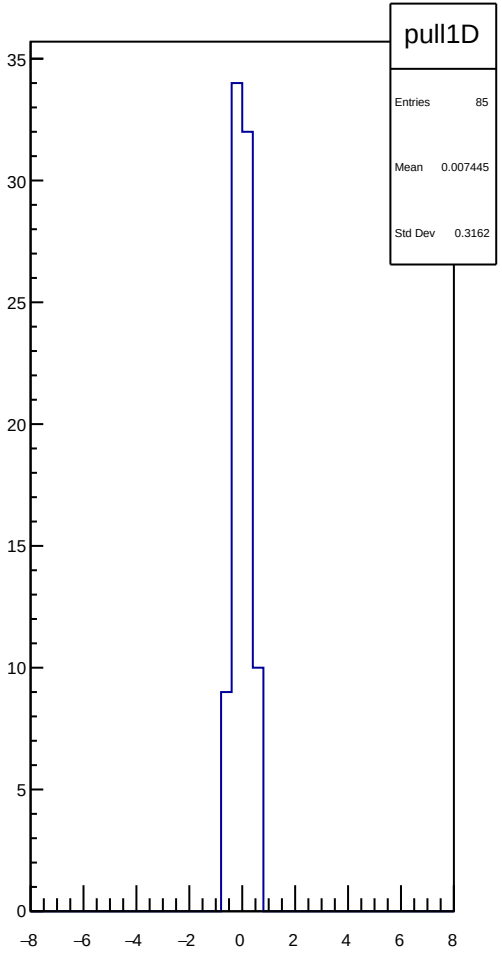

pull1D
Entries 85
Mean 0.0003088
Std Dev 0.232

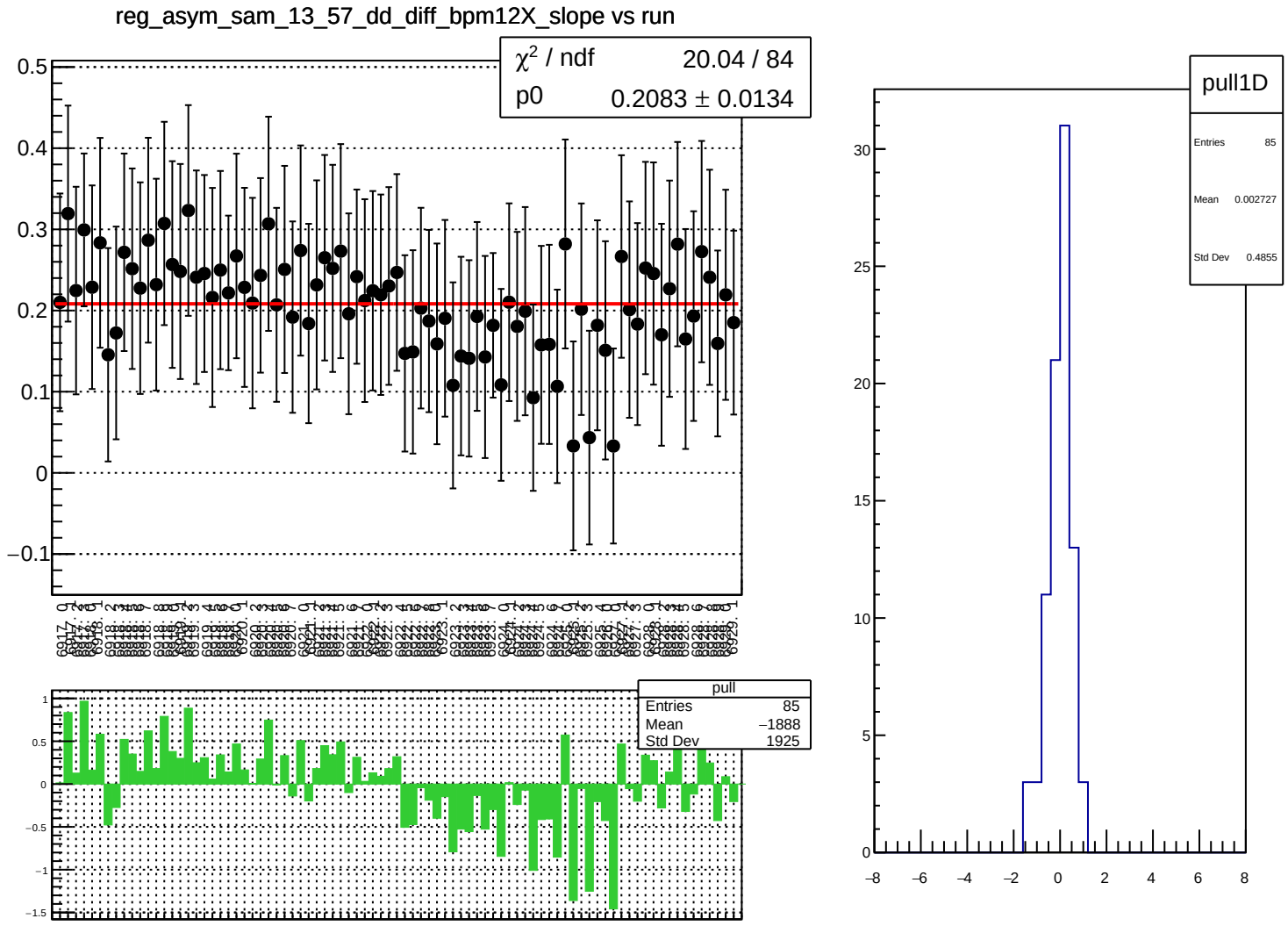

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.224 / 84
p0 −30.83 ± 0.2784
−28
−30
−32
−34
−36
pull
Entries 85
Mean −192.9
Std Dev 228.5
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.01376
Std Dev 0.2702
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

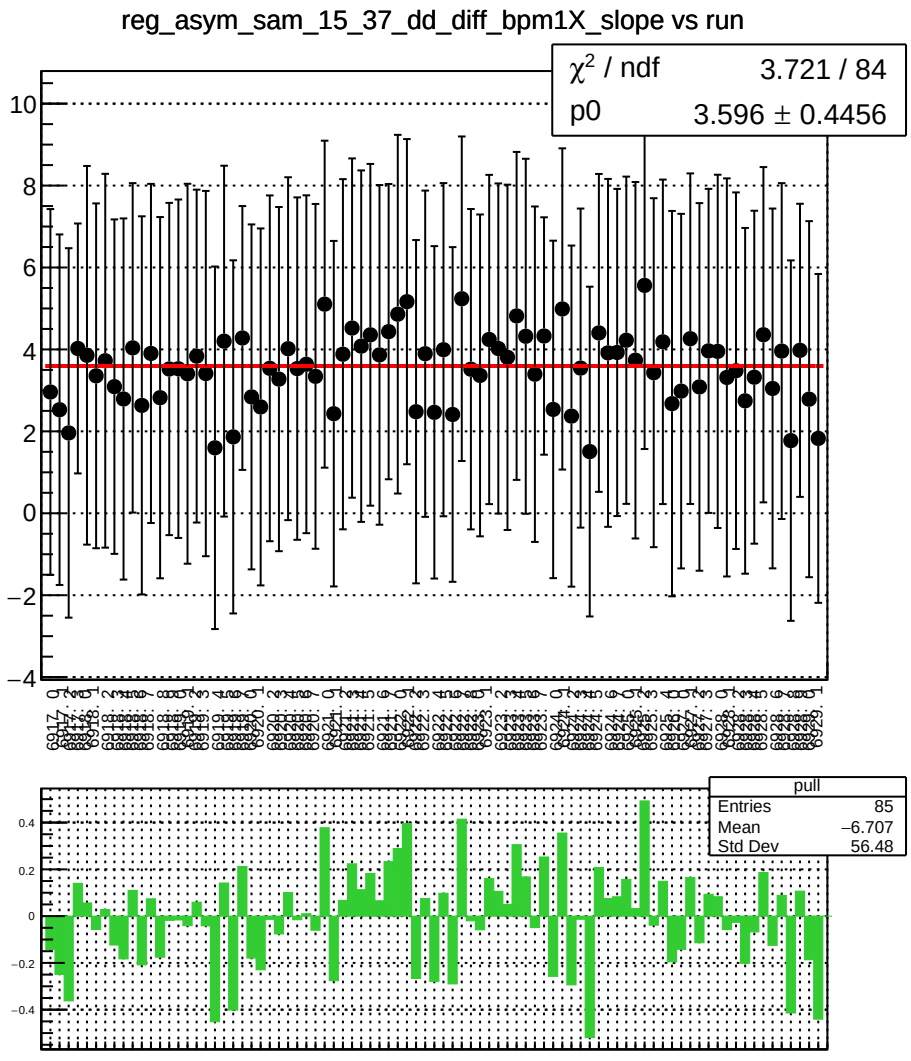

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.77 / 84
p0 −11.95 ± 0.3747
pull
Entries 85
Mean 262.2
Std Dev 208.2

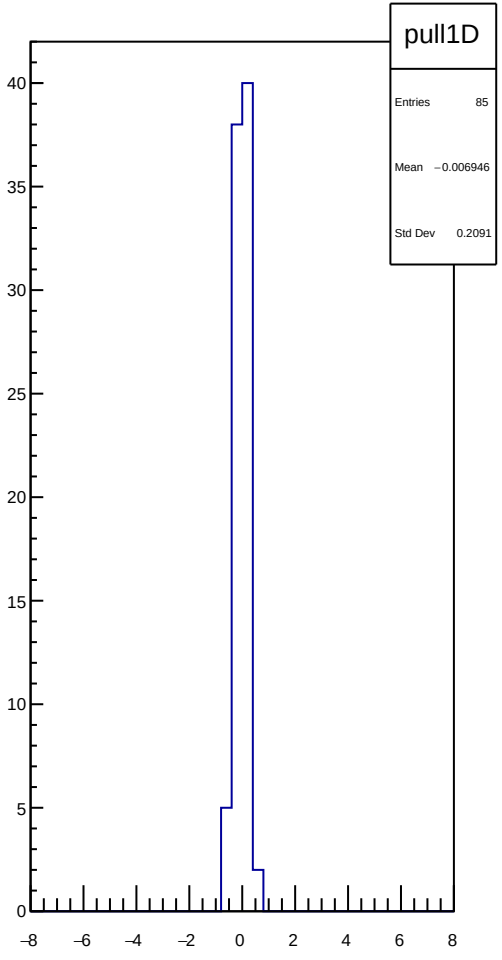

pull1D
Entries 85
Mean −0.002606
Std Dev 0.2605

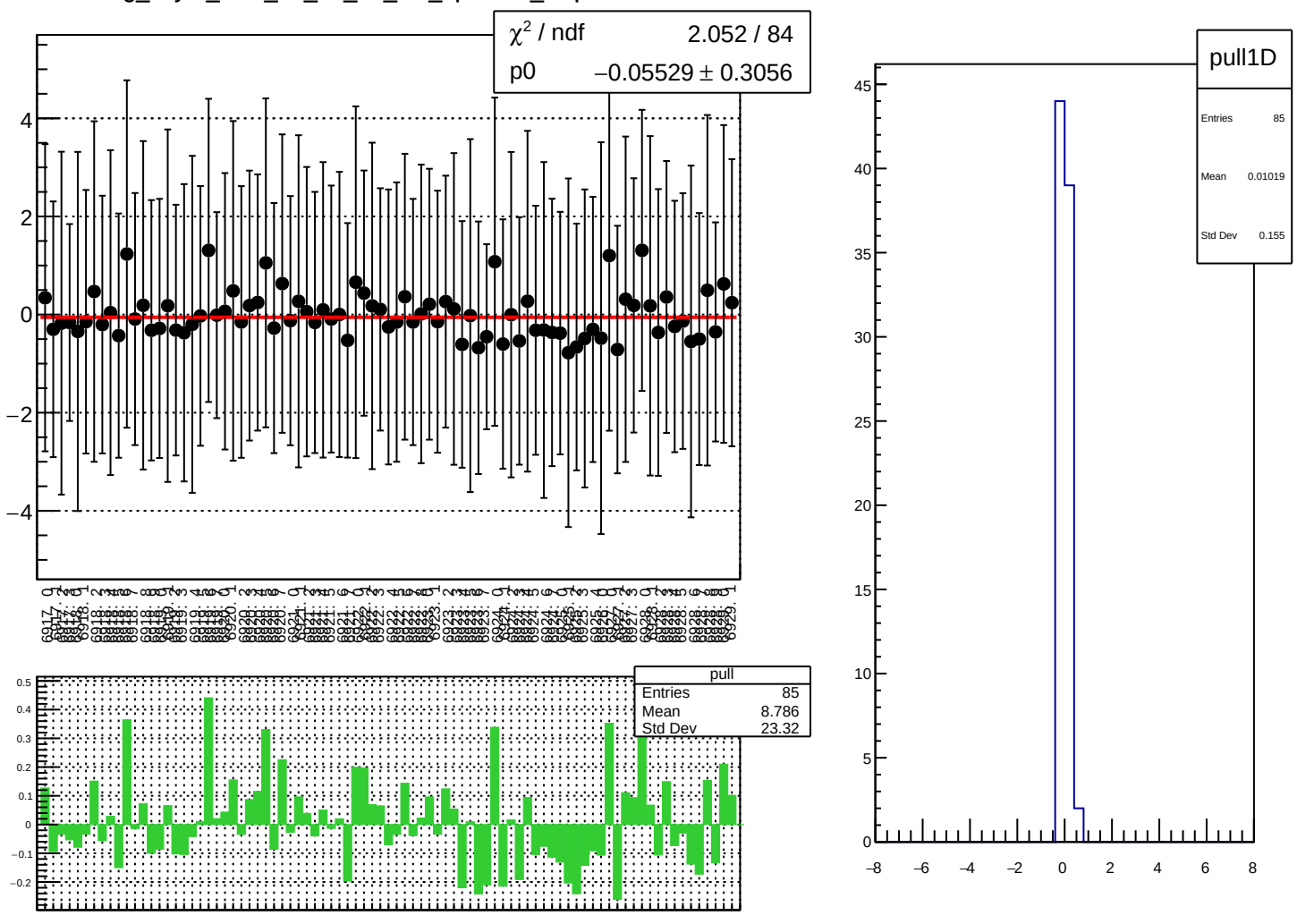

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.502 / 84
p0 −6.727 ± 0.3157
pull
Entries 85
Mean −584.4
Std Dev 621.4

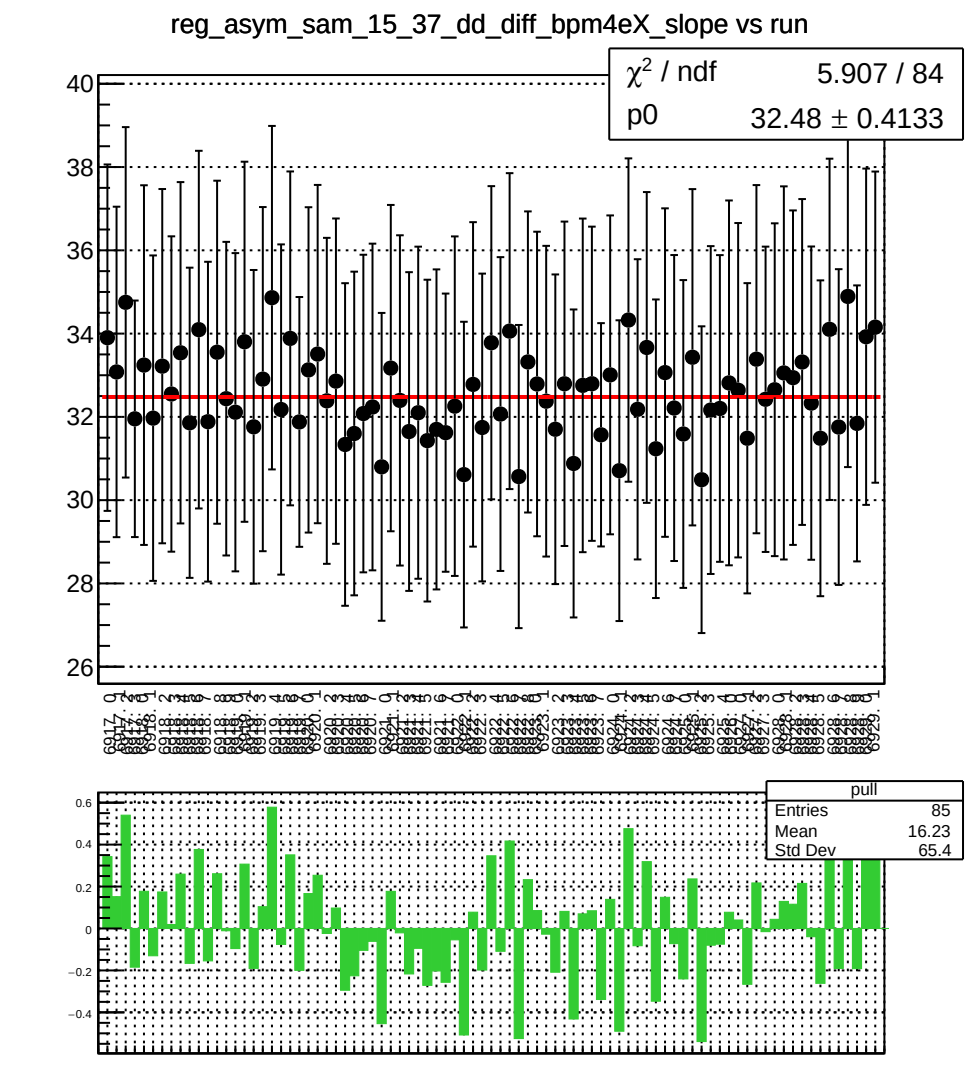

pull1D
Entries 85
Mean 0.007445
Std Dev 0.3162

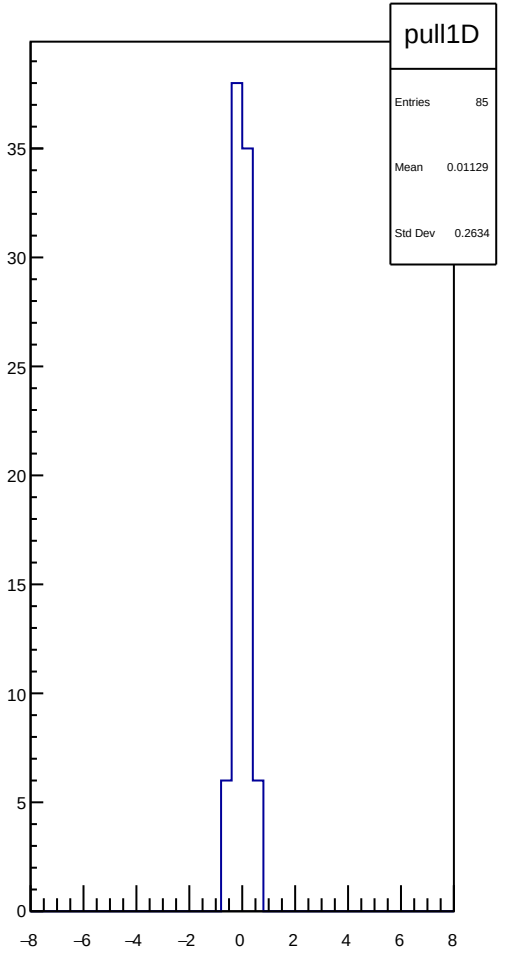

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 20.04 / 84
p0 0.2083 ± 0.0134
pull
Entries 85
Mean −1888
Std Dev 1925
pull1D
Entries 85
Mean 0.002727
Std Dev 0.4855

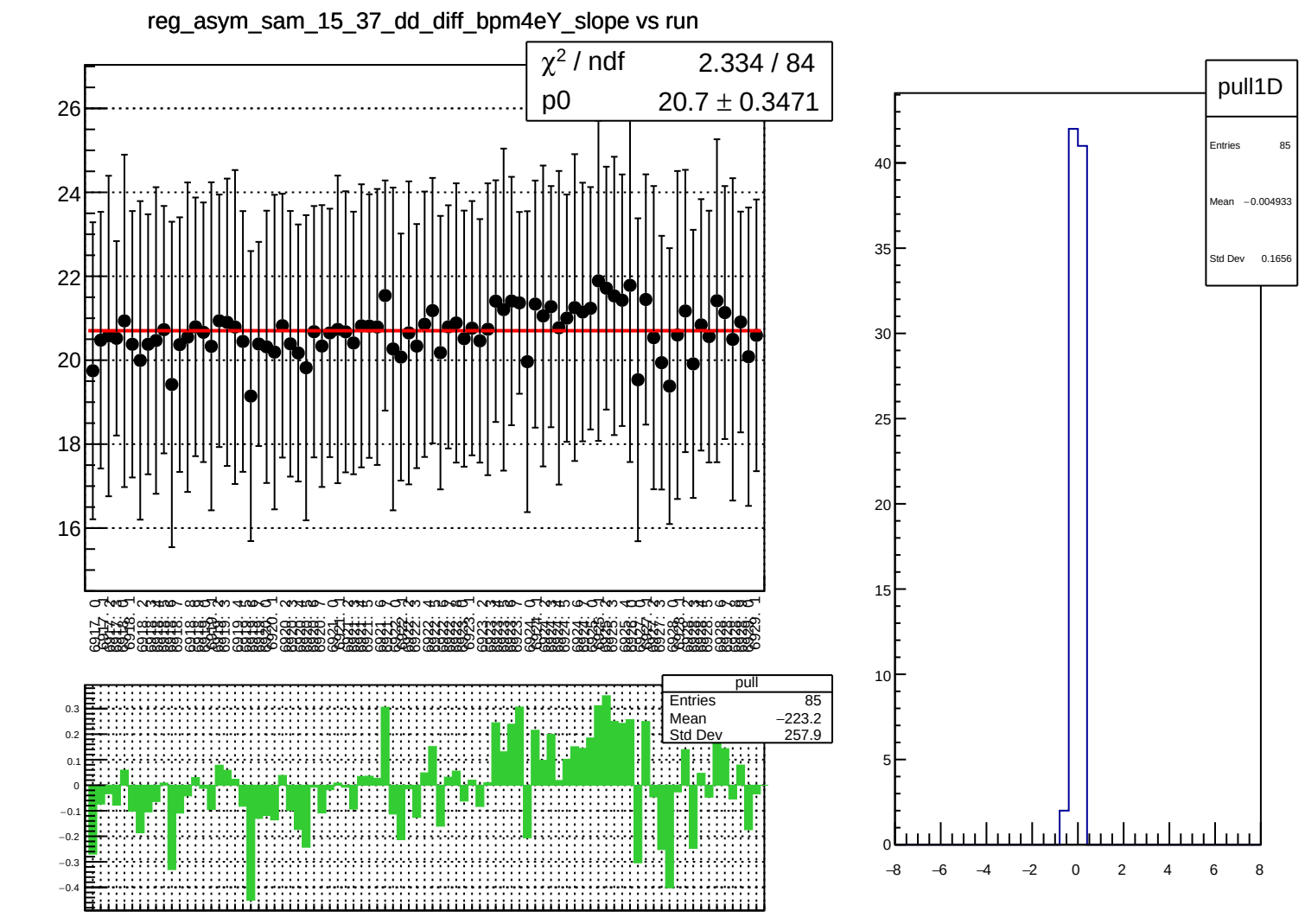

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.721 / 84
p0 3.596 ± 0.4456
pull
Entries 85
Mean −6.707
Std Dev 56.48

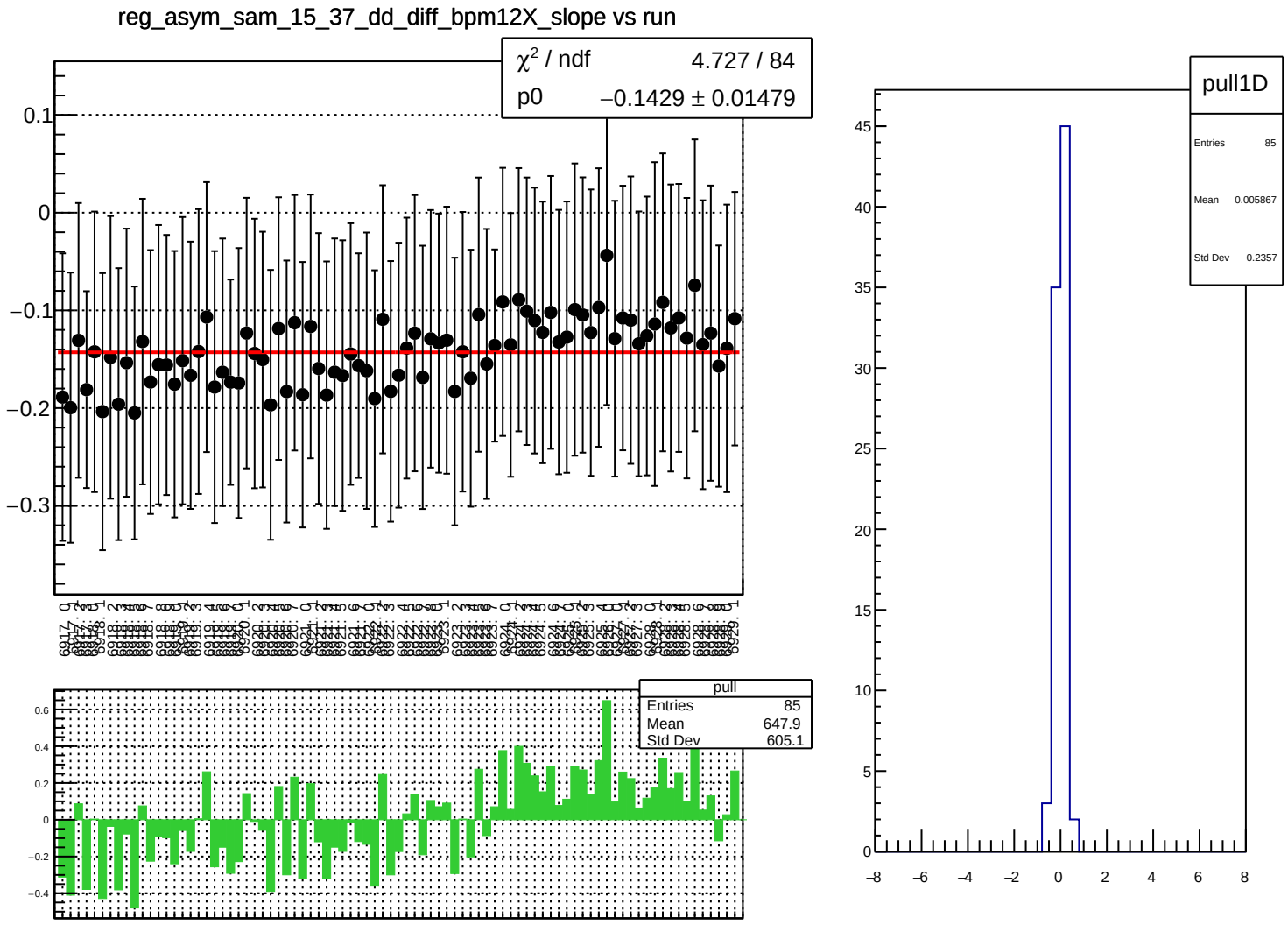

pull1D
Entries 85
Mean −0.006946
Std Dev 0.2091

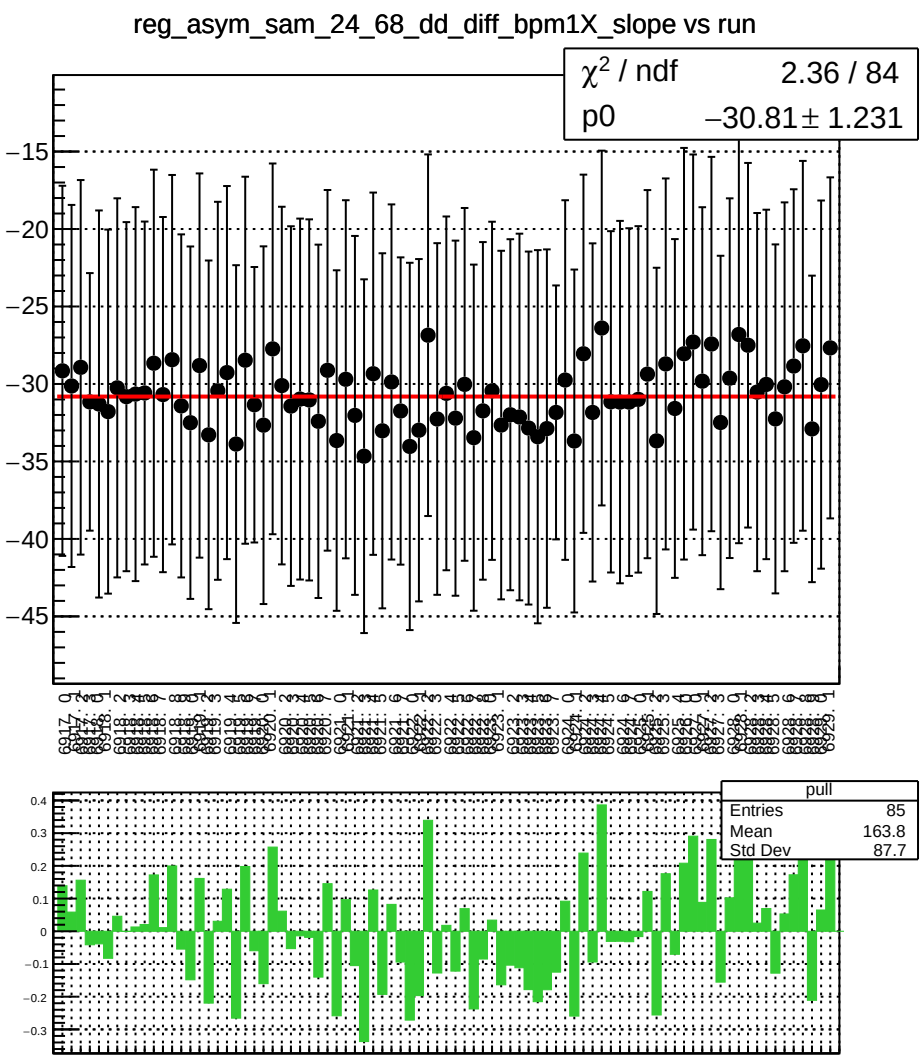

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.052 / 84
p0 −0.05529 ± 0.3056
pull
Entries 85
Mean 8.786
Std Dev 23.32
pull1D
Entries 85
Mean 0.01019
Std Dev 0.155

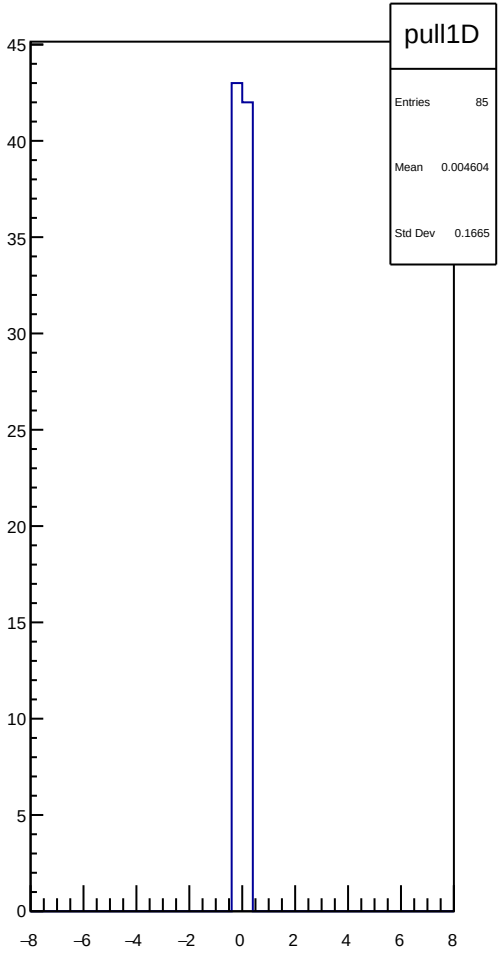

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.907 / 84
p0 32.48 ± 0.4133
pull
Entries 85
Mean 16.23
Std Dev 65.4

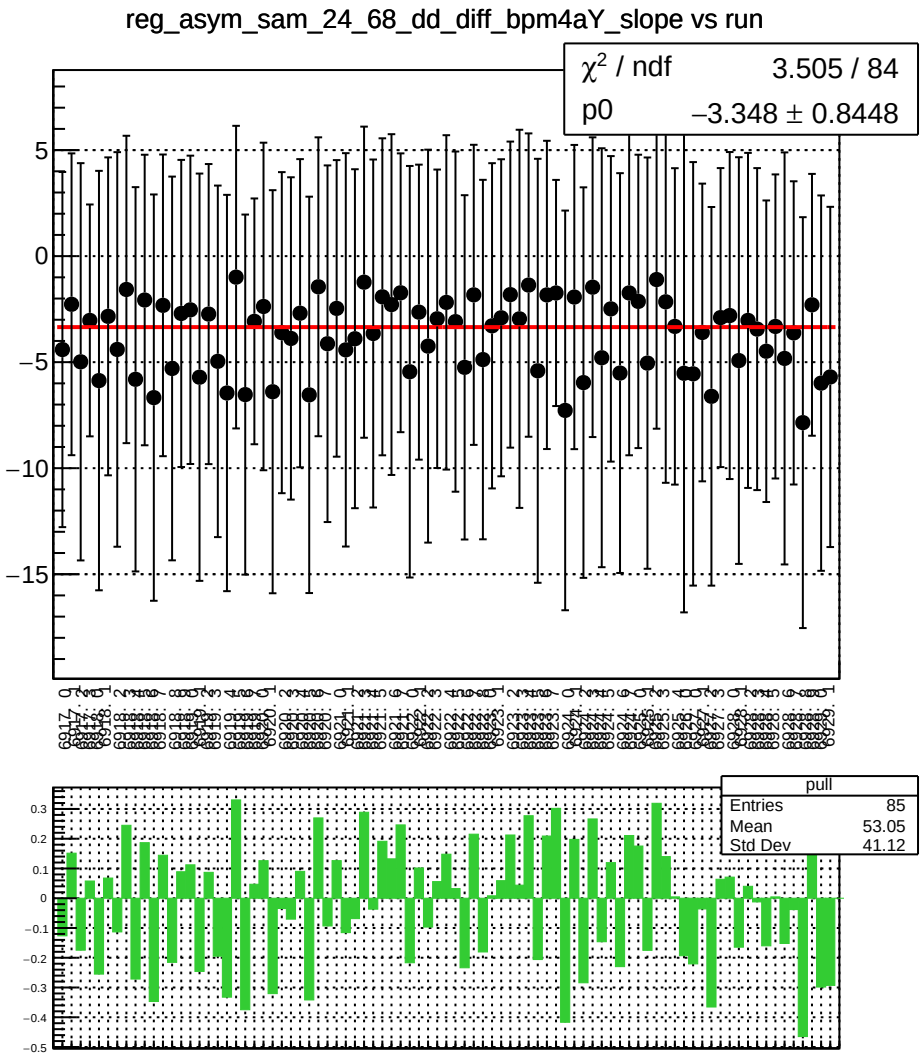

pull1D
Entries 85
Mean 0.01129
Std Dev 0.2634

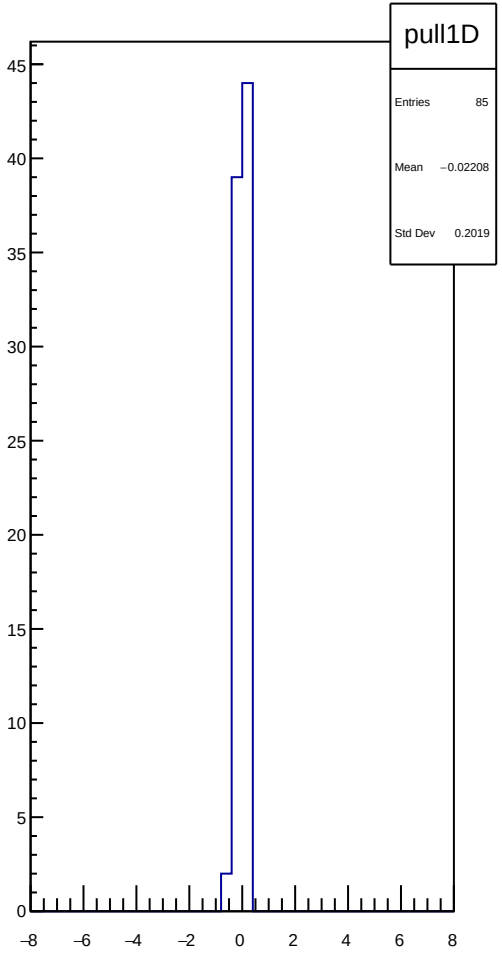

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.334 / 84
p0 20.7 ± 0.3471
pull
Entries 85
Mean −223.2
Std Dev 257.9
pull1D
Entries 85
Mean −0.004933
Std Dev 0.1656

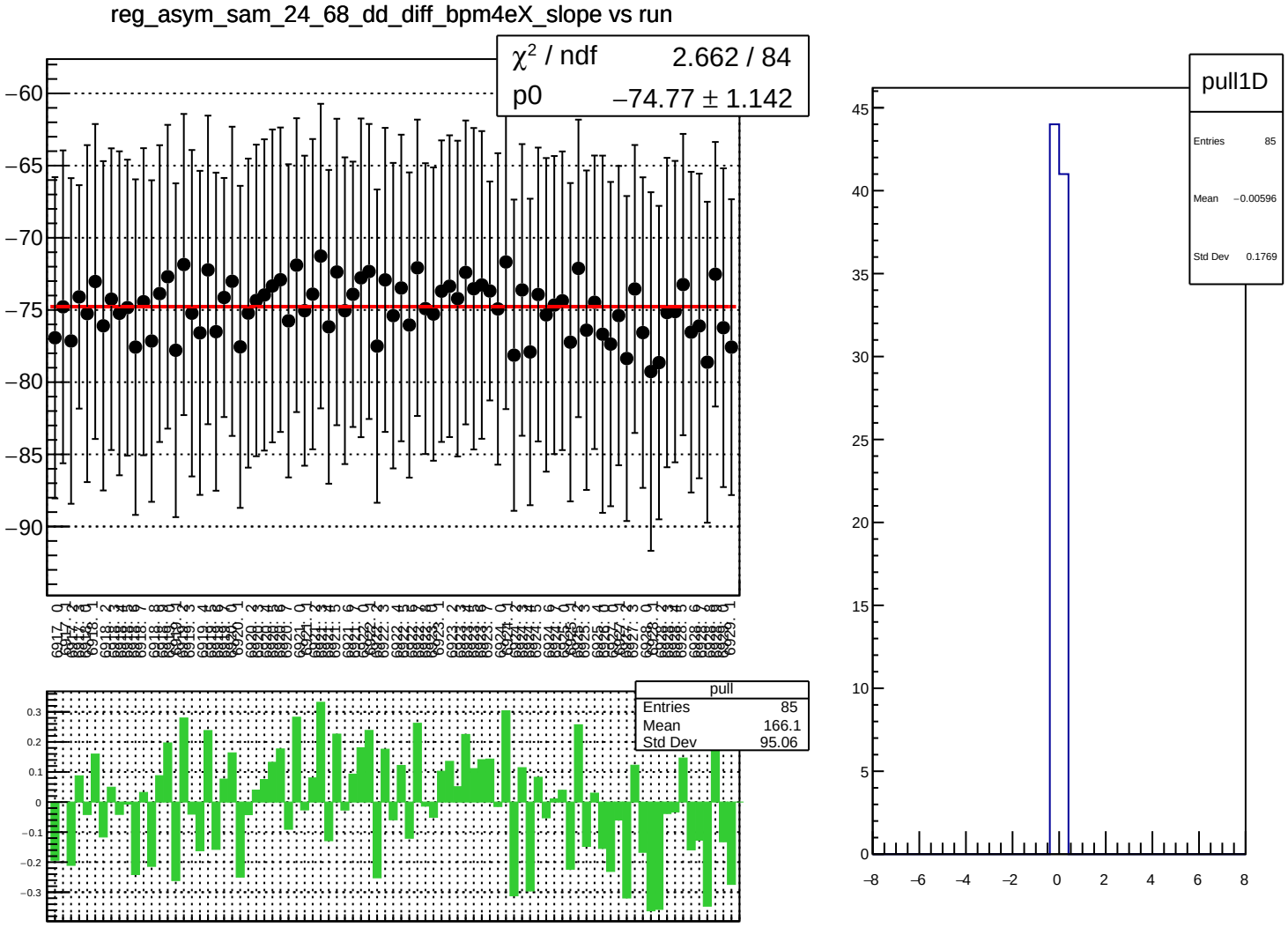

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.727 / 84
p0 −0.1429 ± 0.01479
pull
Entries 85
Mean 647.9
Std Dev 605.1
pull1D
Entries 85
Mean 0.005867
Std Dev 0.2357

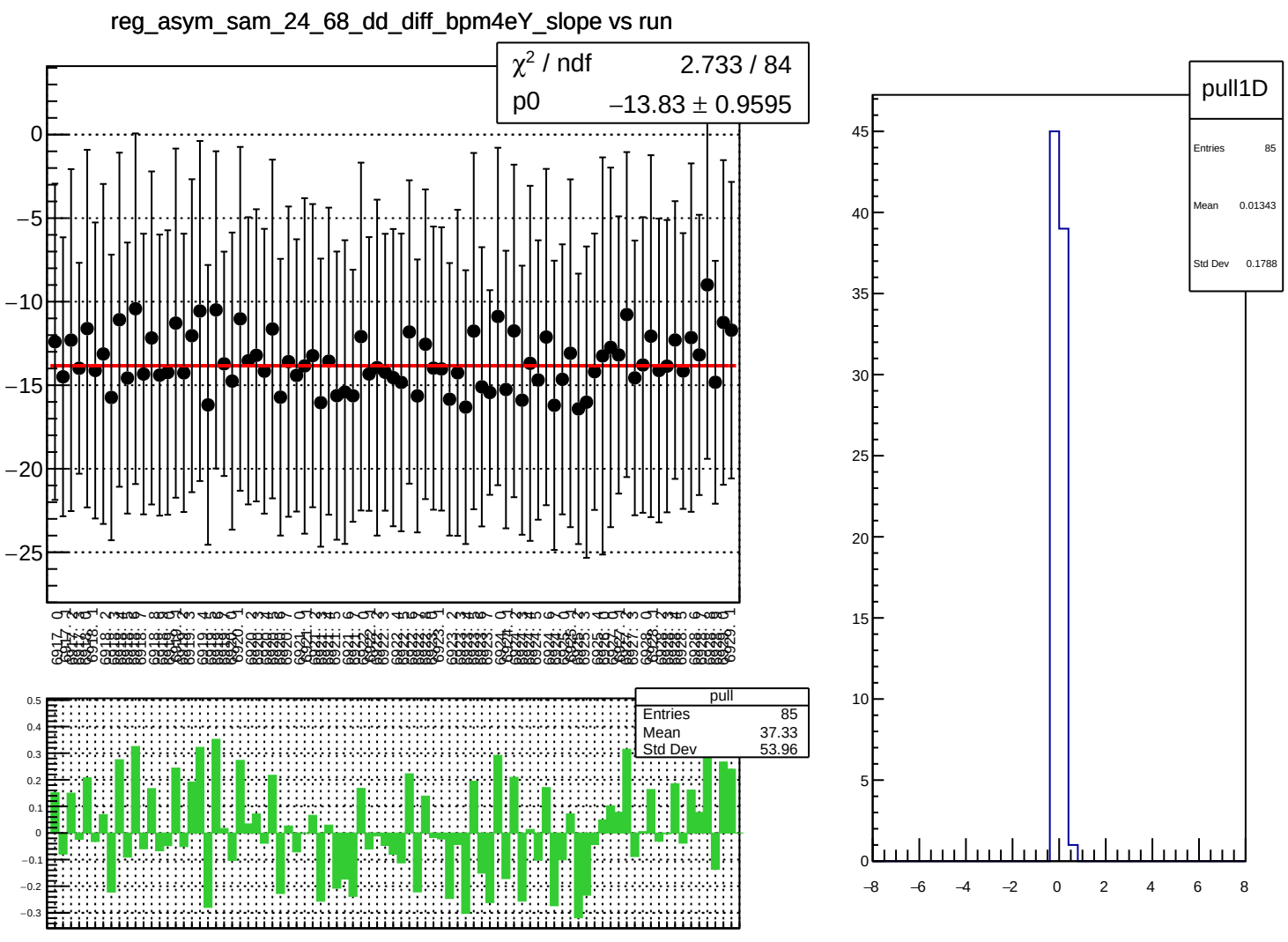

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.36 / 84
p0 −30.81 ± 1.231
pull
Entries 85
Mean 163.8
Std Dev 87.7

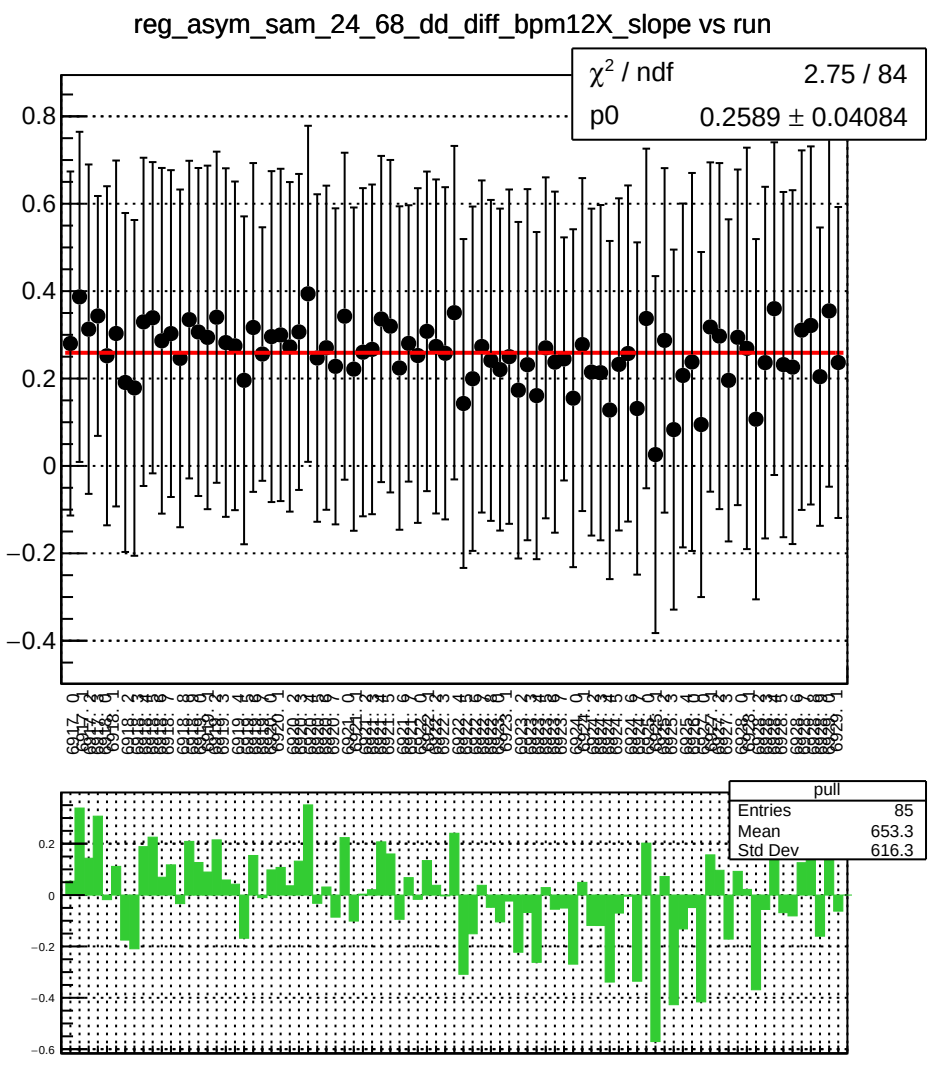

pull1D
Entries 85
Mean 0.004604
Std Dev 0.1665

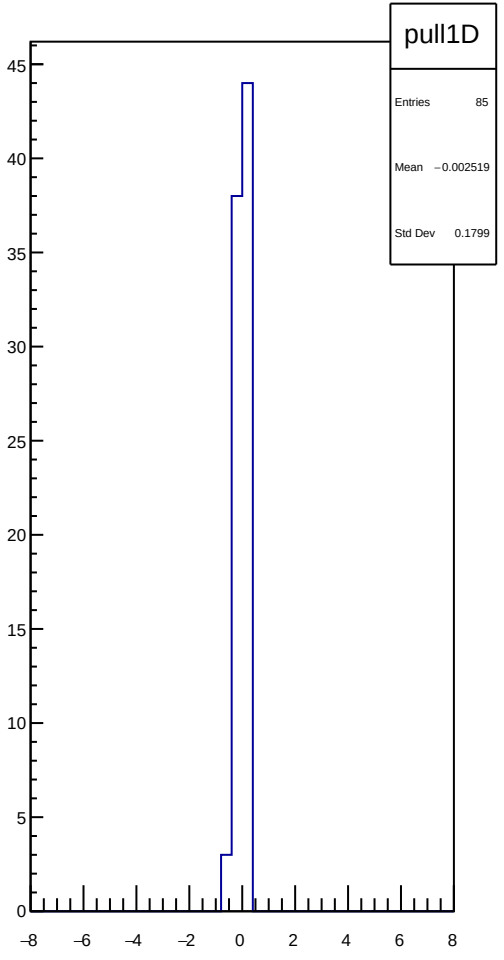

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.505 / 84
p0 −3.348 ± 0.8448
pull
Entries 85
Mean 53.05
Std Dev 41.12

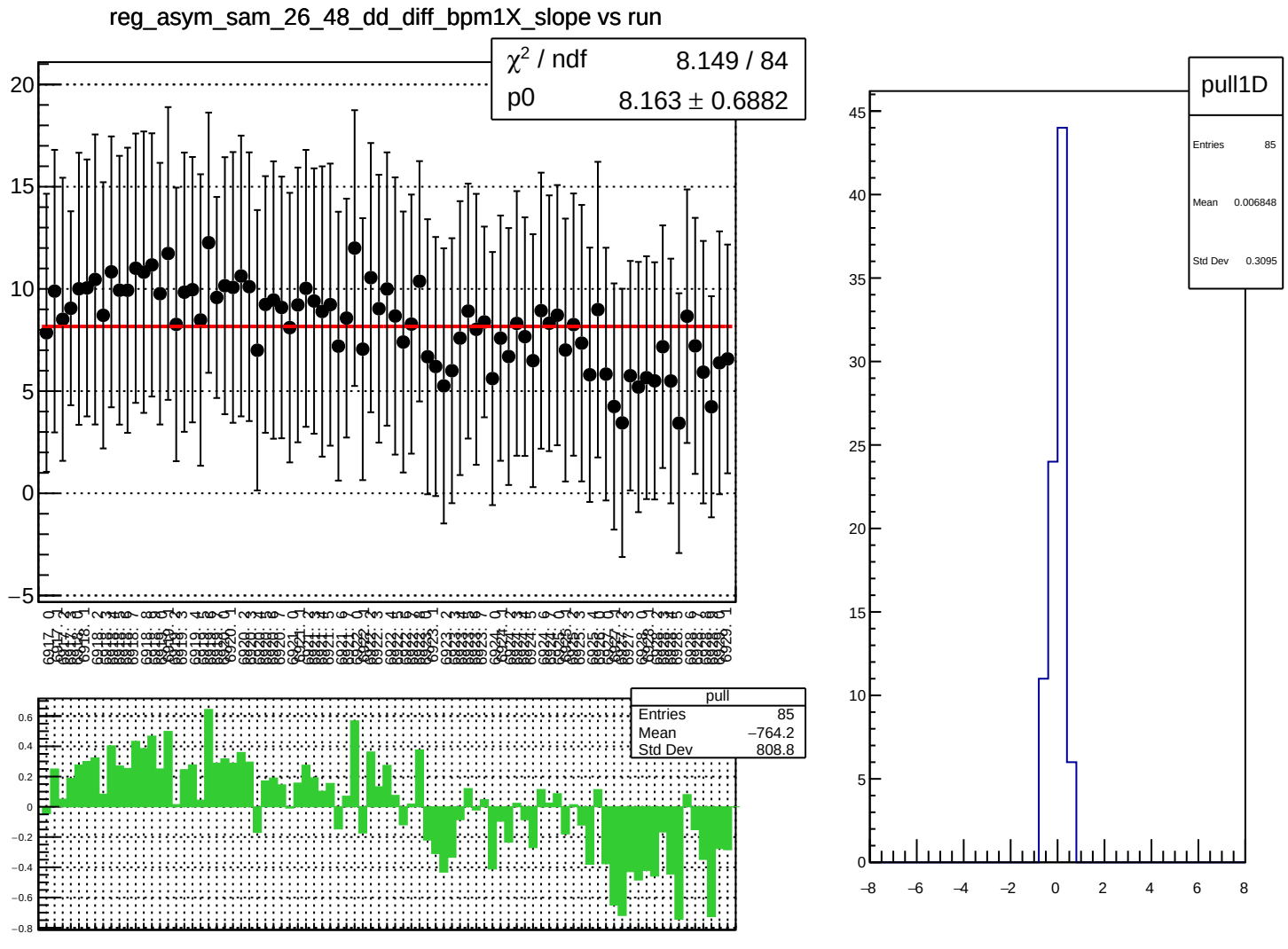

pull1D
Entries 85
Mean −0.02208
Std Dev 0.2019

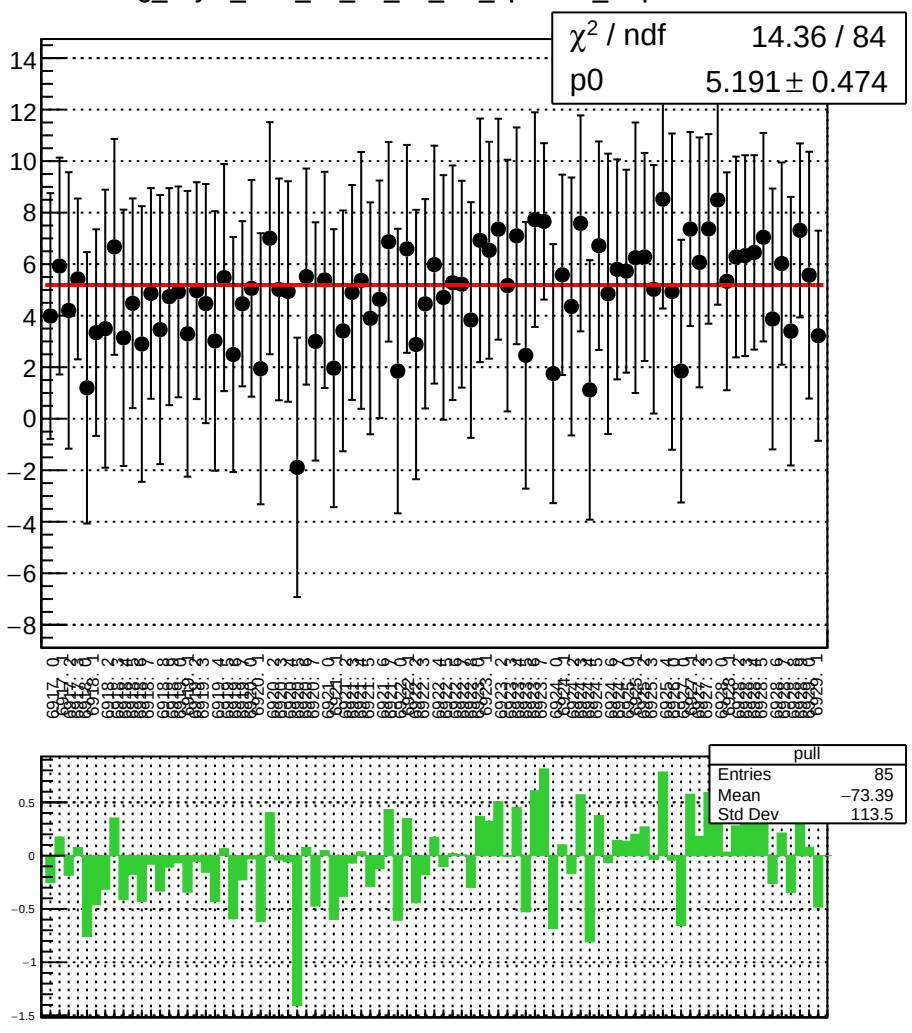

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.662 / 84
p0 −74.77 ± 1.142
−60
−65
−70
−75
−80
−85
−90
pull
Entries 85
Mean 166.1
Std Dev 95.06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 85
Mean −0.00596
Std Dev 0.1769
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

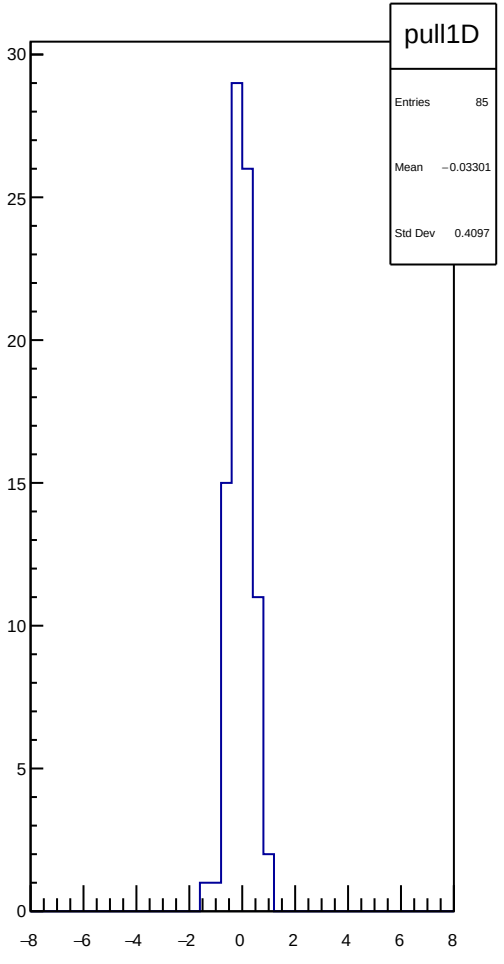

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.733 / 84
p0 −13.83 ± 0.9595
pull
Entries 85
Mean 37.33
Std Dev 53.96
pull1D
Entries 85
Mean 0.01343
Std Dev 0.1788

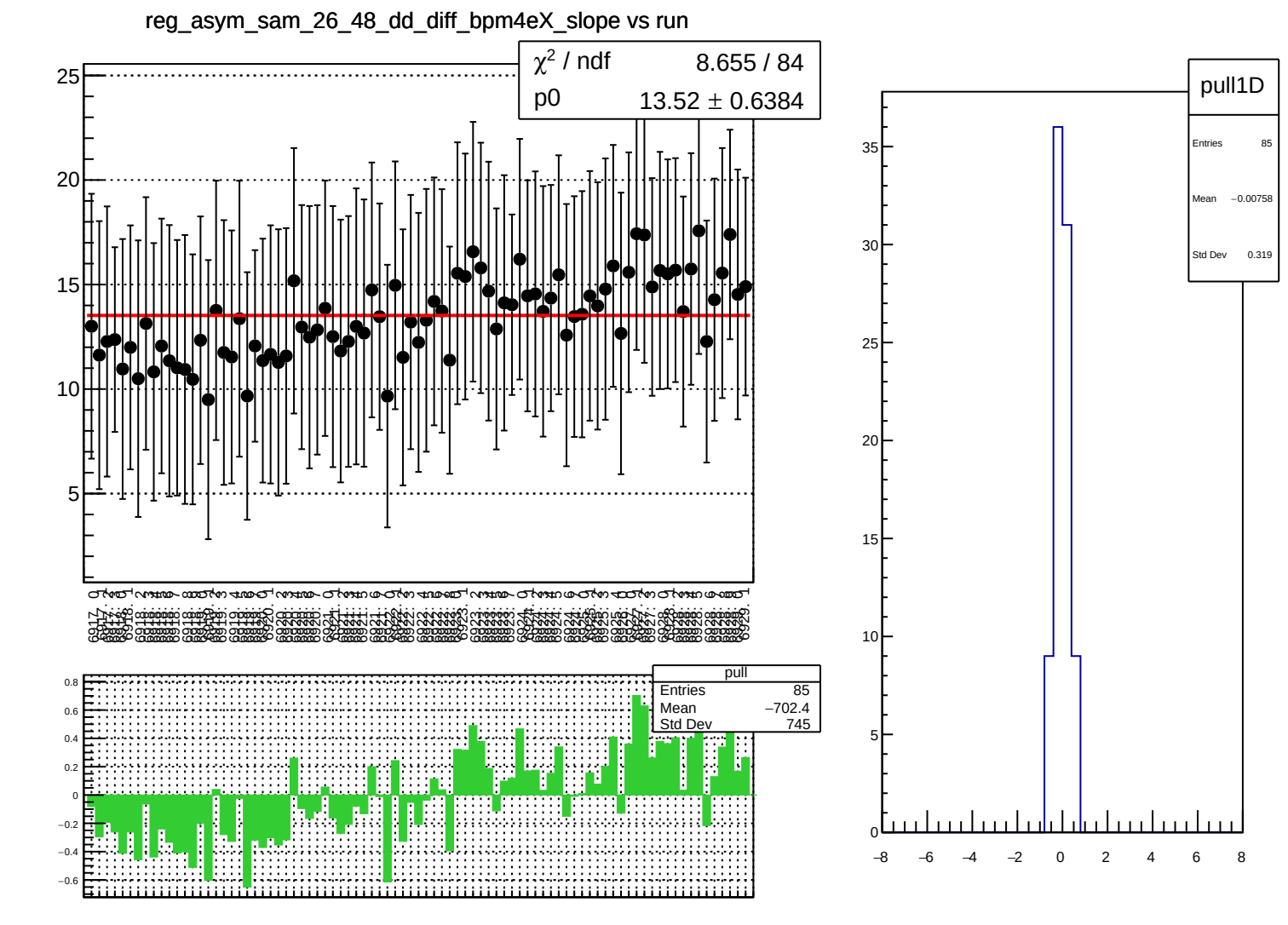

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.75 / 84
p0 0.2589 ± 0.04084
pull
Entries 85
Mean 653.3
Std Dev 616.3

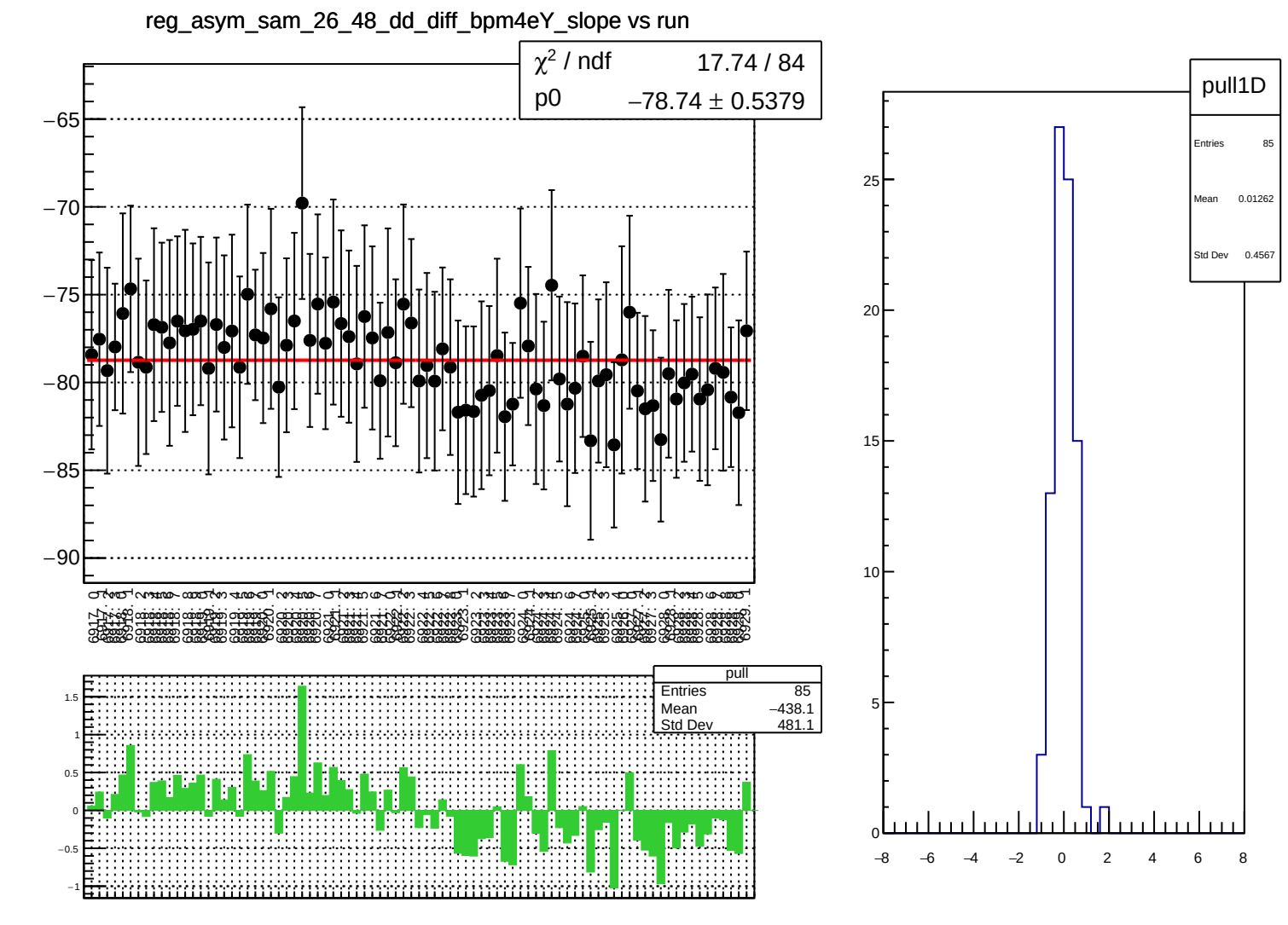

pull1D
Entries 85
Mean −0.002519
Std Dev 0.1799

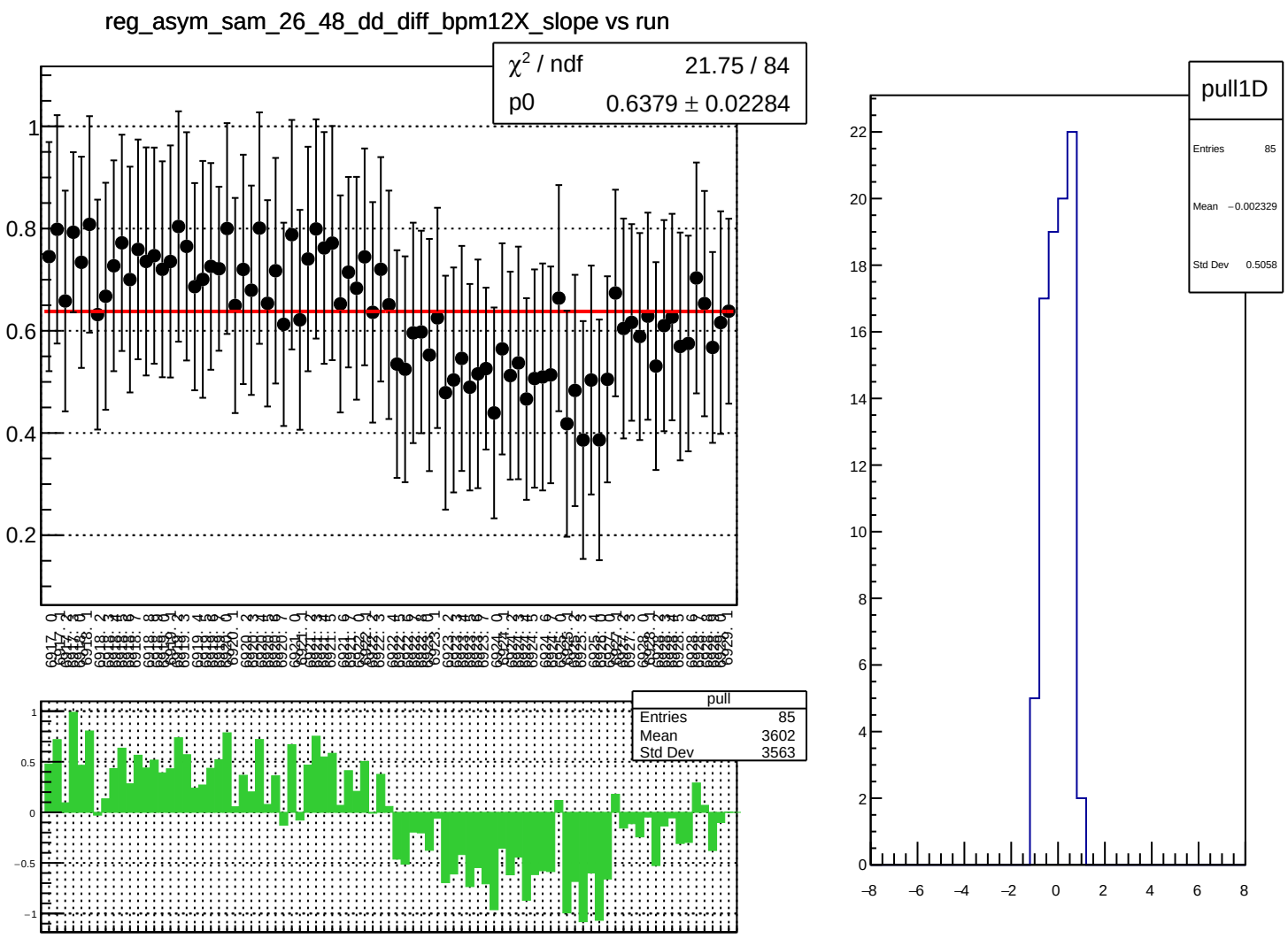

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 8.149 / 84
p0 8.163 ± 0.6882
pull
Entries 85
Mean −764.2
Std Dev 808.8
pull1D
Entries 85
Mean 0.006848
Std Dev 0.3095

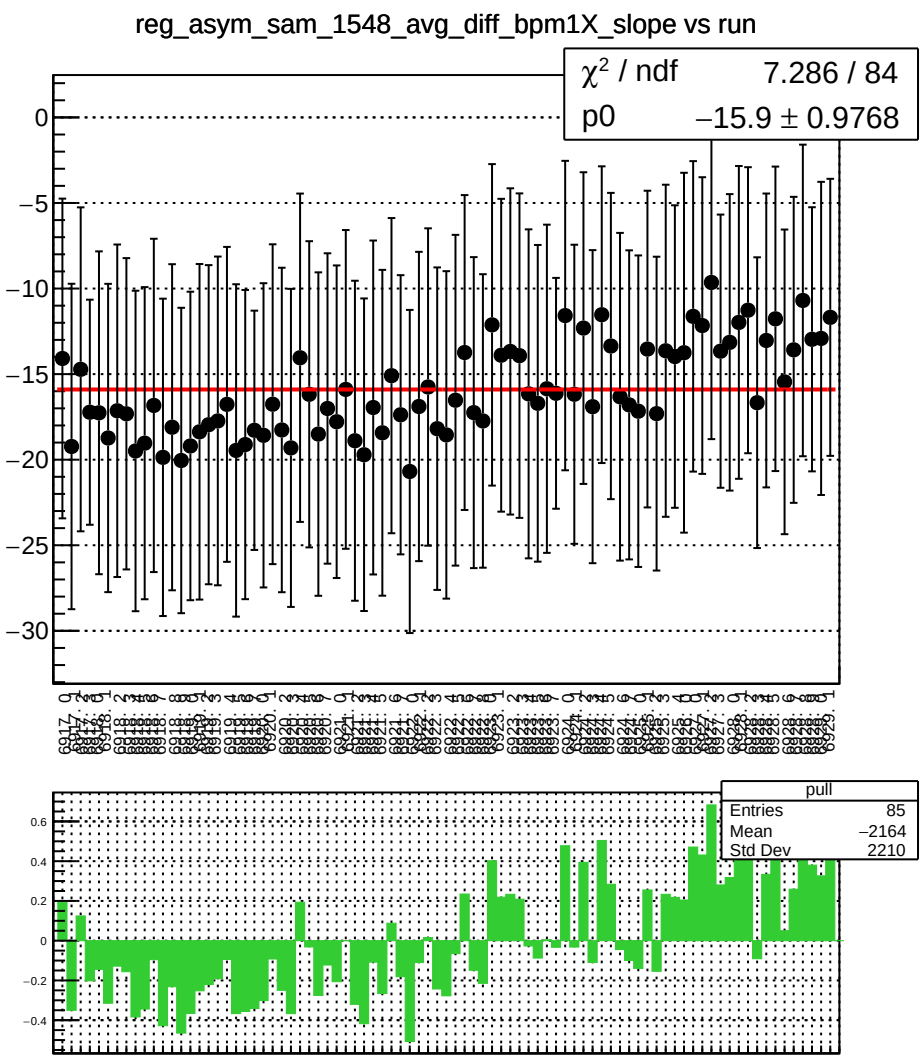

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.36 / 84
p0 5.191 ± 0.474
pull
Entries 85
Mean −73.39
Std Dev 113.5

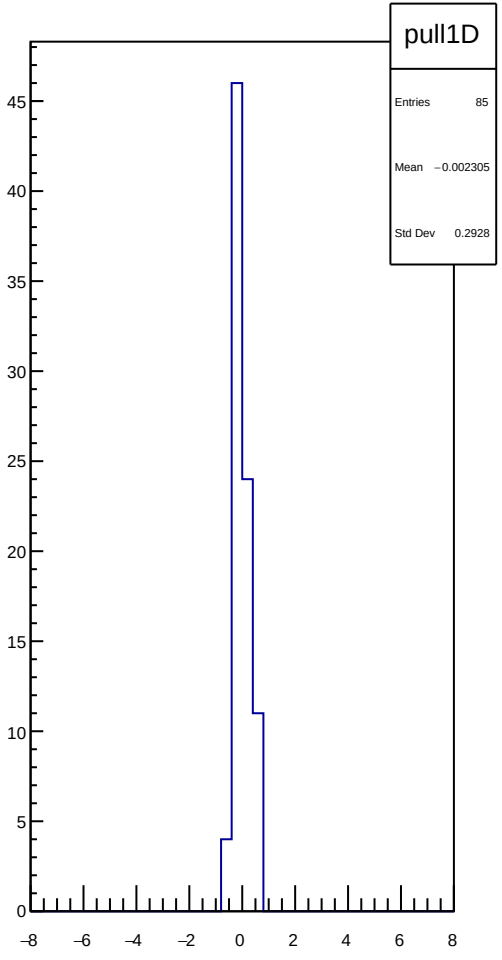

pull1D
Entries 85
Mean −0.03301
Std Dev 0.4097

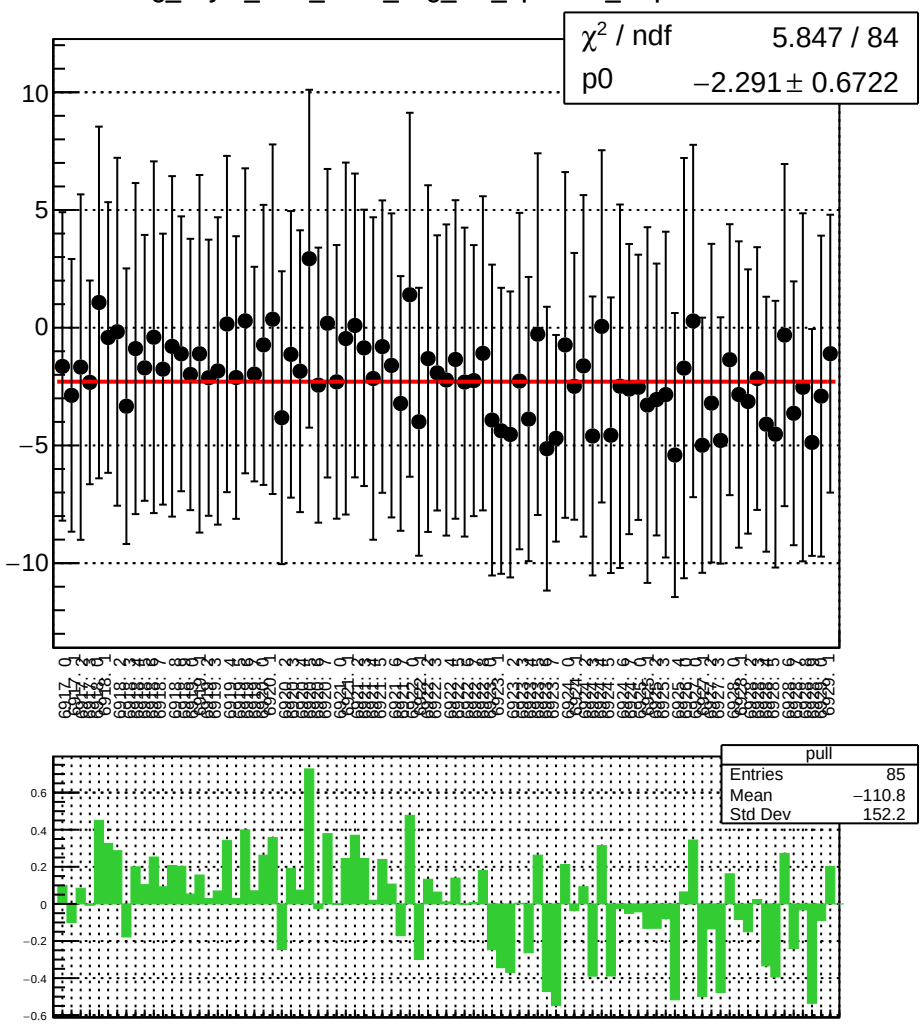

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.655 / 84
p0 13.52 ± 0.6384
pull
Entries 85
Mean −702.4
Std Dev 745
pull1D
Entries 85
Mean −0.00758
Std Dev 0.319

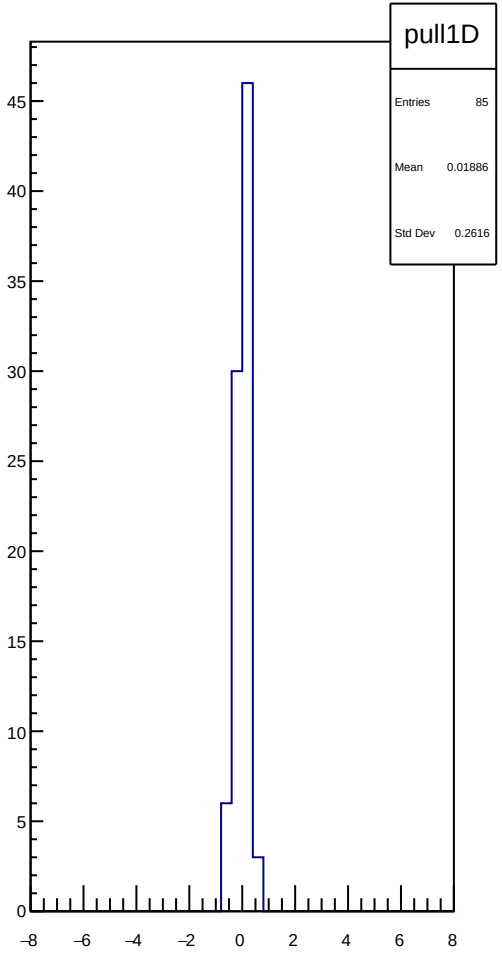

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.74 / 84
p0 −78.74 ± 0.5379
pull
Entries 85
Mean −438.1
Std Dev 481.1
pull1D
Entries 85
Mean 0.01262
Std Dev 0.4567

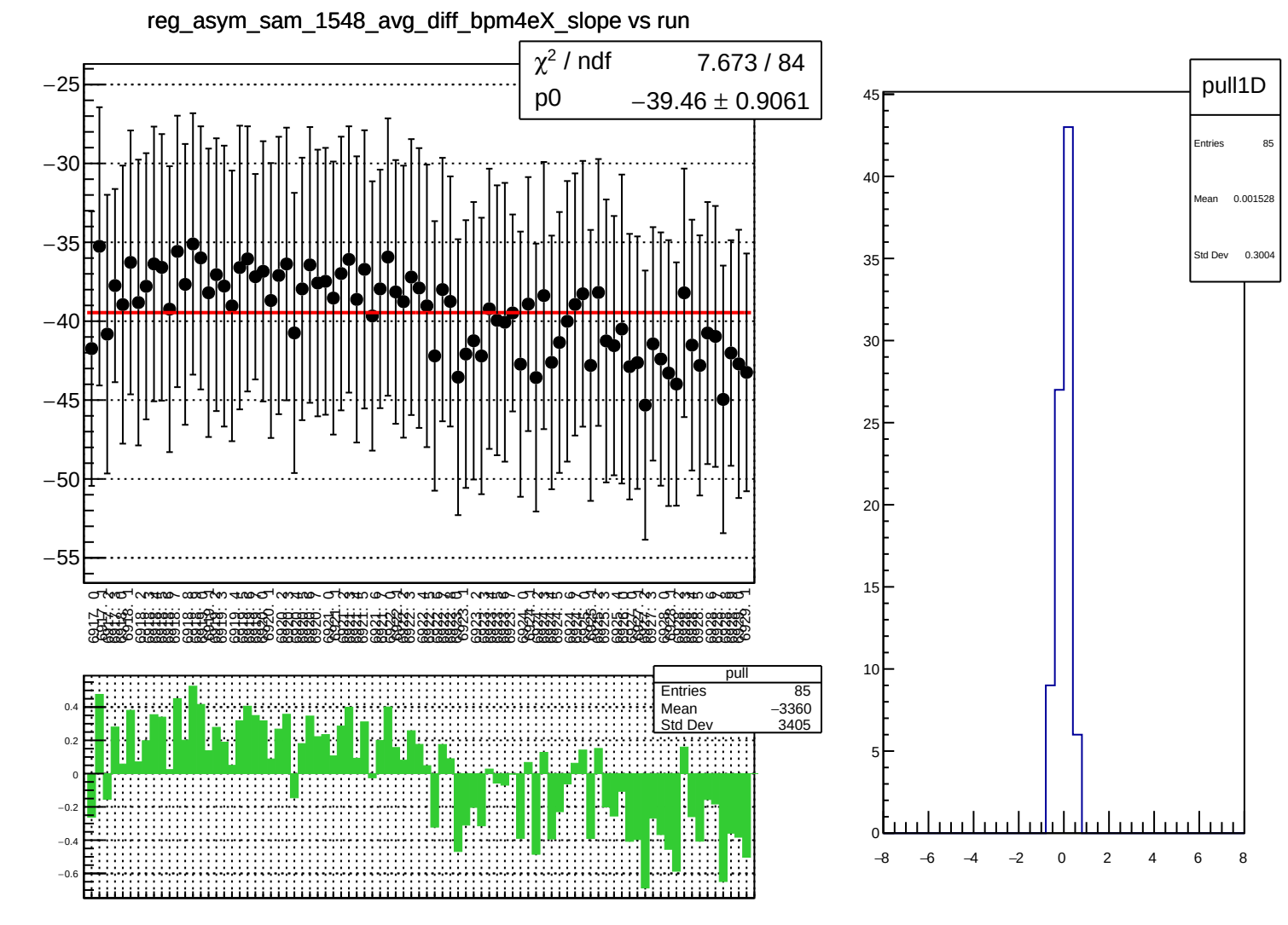

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 21.75 / 84
p0 0.6379 ± 0.02284
pull
Entries 85
Mean 3602
Std Dev 3563
pull1D
Entries 85
Mean −0.002329
Std Dev 0.5058

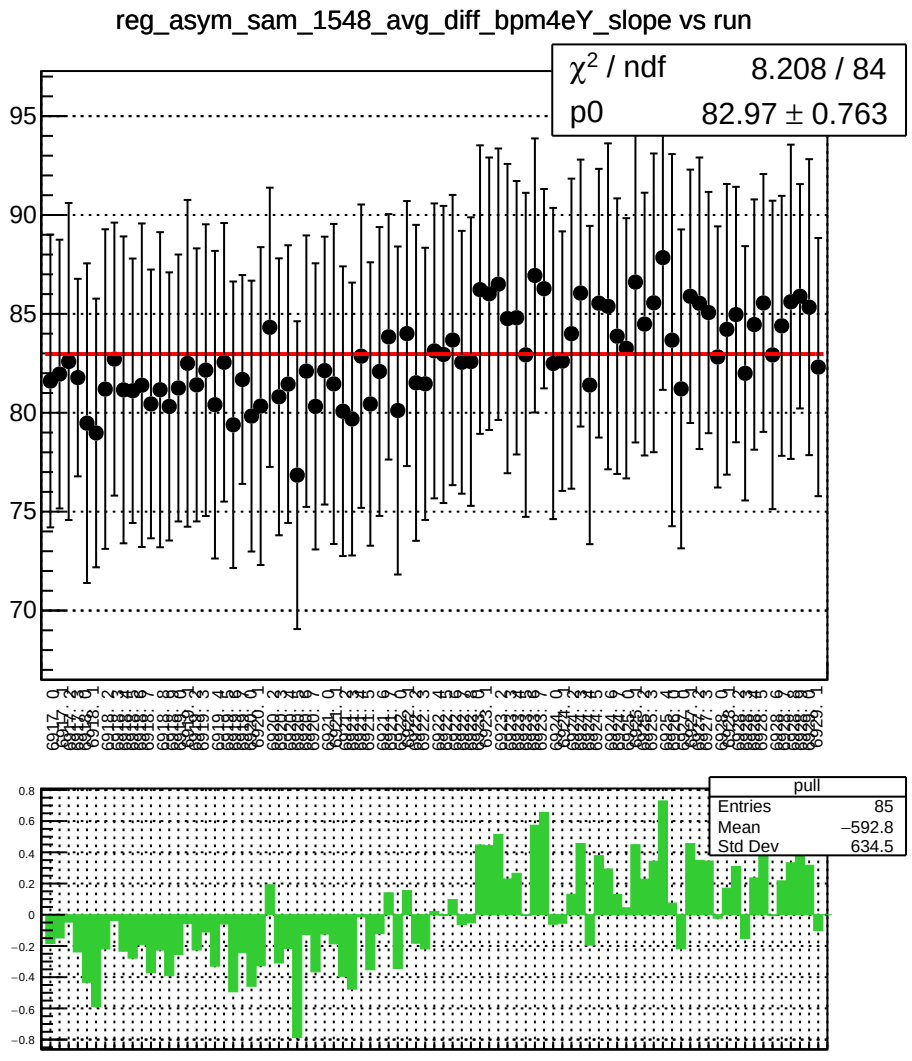

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 7.286 / 84
p0 −15.9 ± 0.9768
pull
Entries 85
Mean −2164
Std Dev 2210

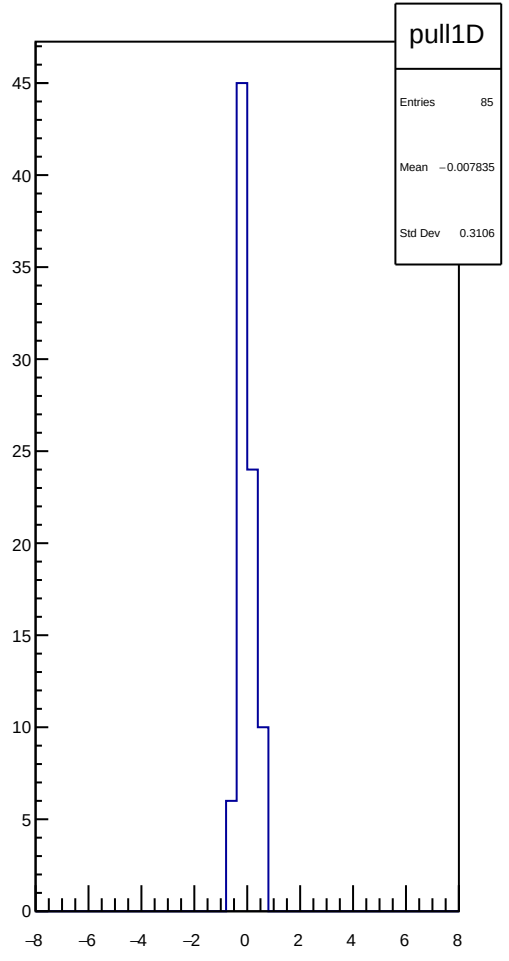

pull1D
Entries 85
Mean −0.002305
Std Dev 0.2928

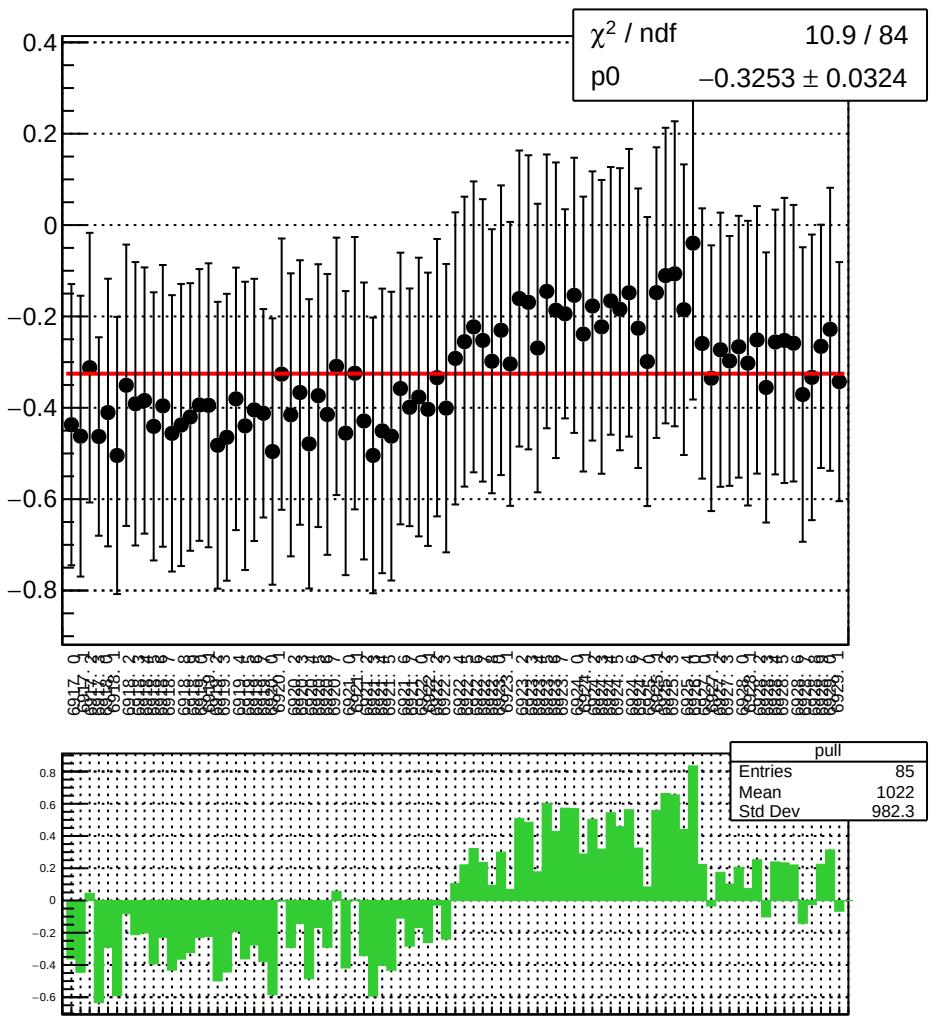

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.847 / 84
p0 −2.291 ± 0.6722
pull
Entries 85
Mean −110.8
Std Dev 152.2

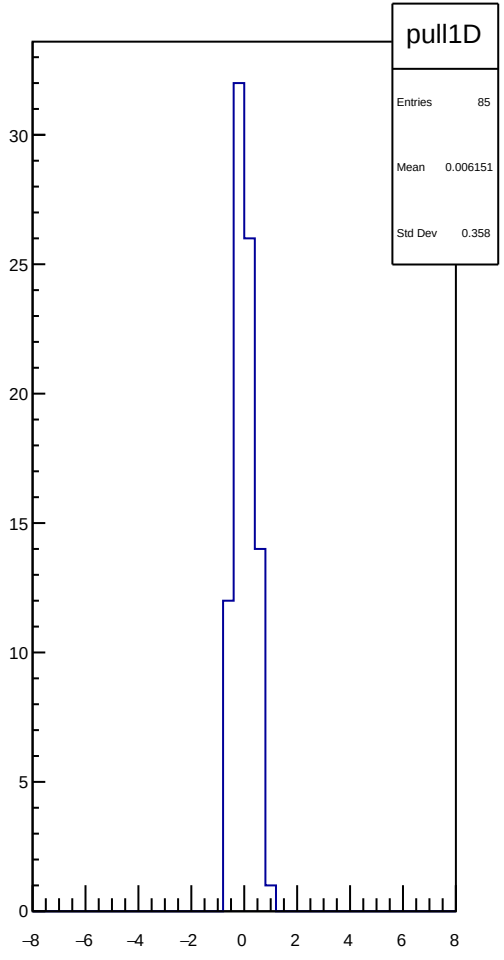

pull1D
Entries 85
Mean 0.01886
Std Dev 0.2616

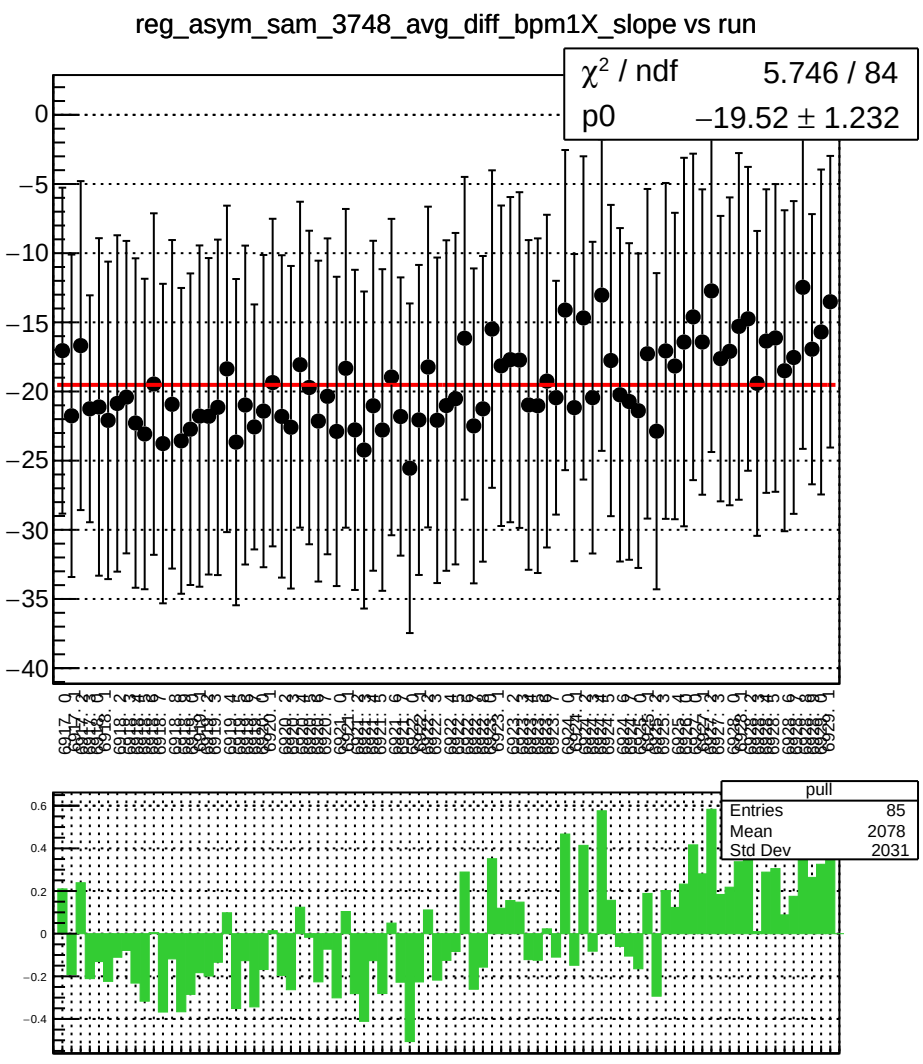

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.673 / 84
p0 −39.46 ± 0.9061
pull
Entries 85
Mean −3360
Std Dev 3405
pull1D
Entries 85
Mean 0.001528
Std Dev 0.3004

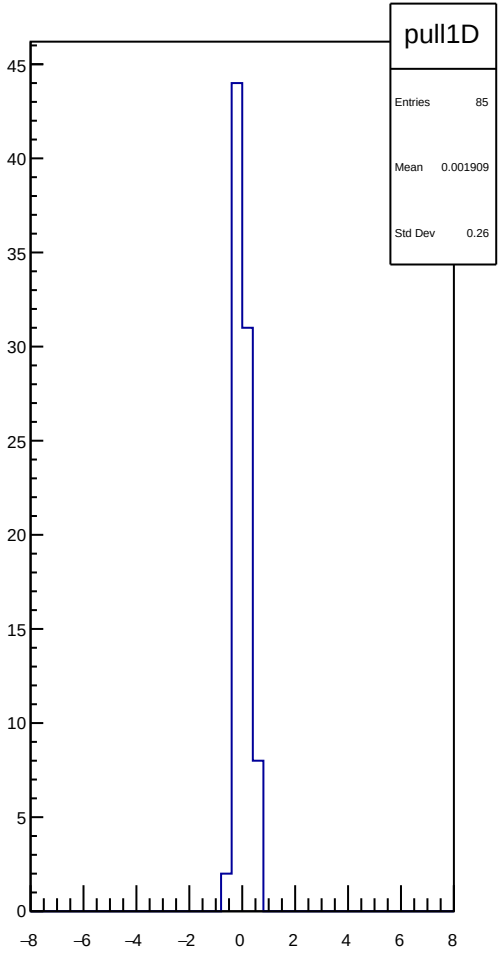

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.208 / 84
p0 82.97 ± 0.763
95
90
85
80
75
70
pull
Entries 85
Mean −592.8
Std Dev 634.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

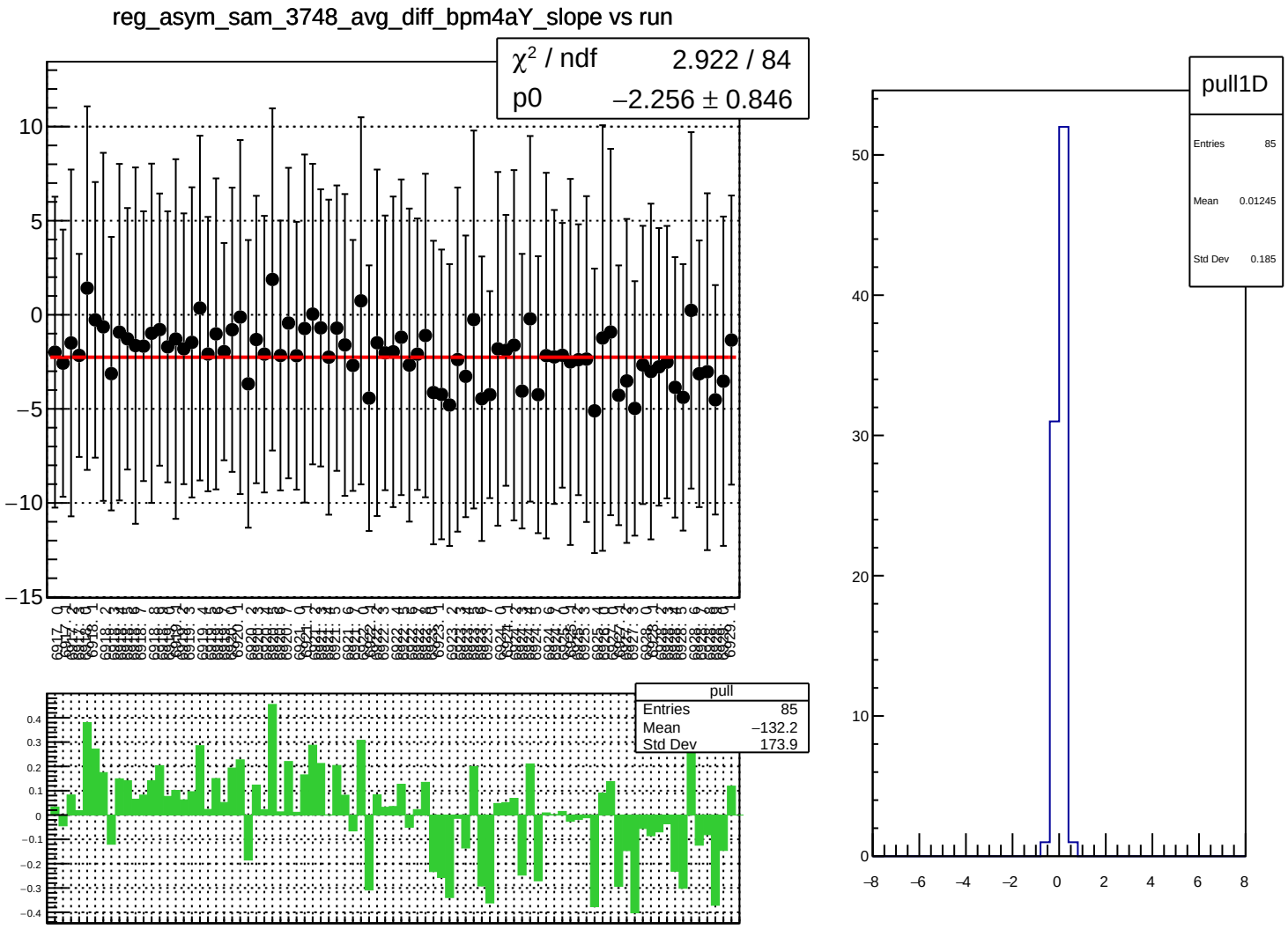

pull1D
Entries 85
Mean −0.007835
Std Dev 0.3106
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

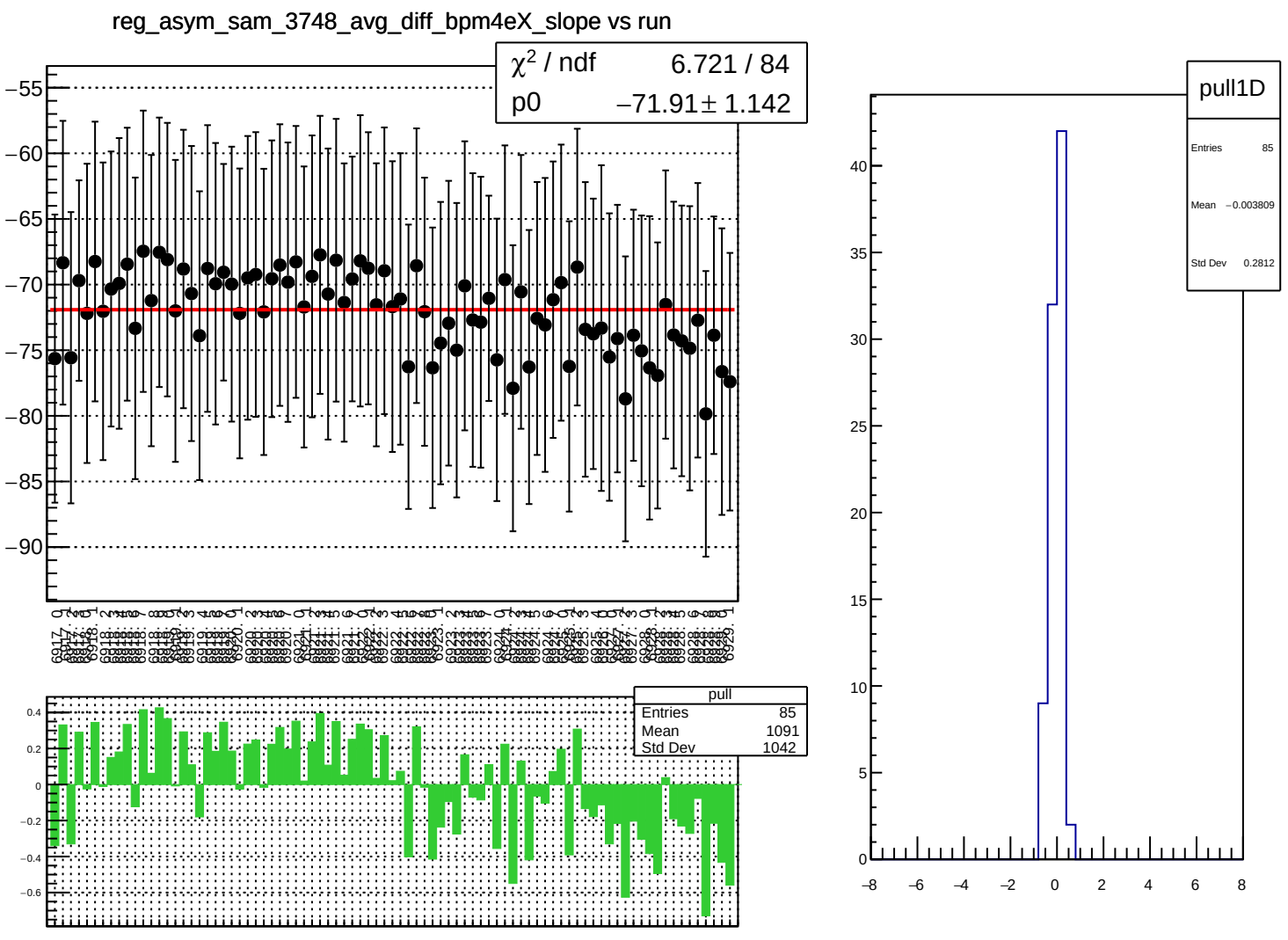

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 10.9 / 84
p0 −0.3253 ± 0.0324
pull
Entries 85
Mean 1022
Std Dev 982.3

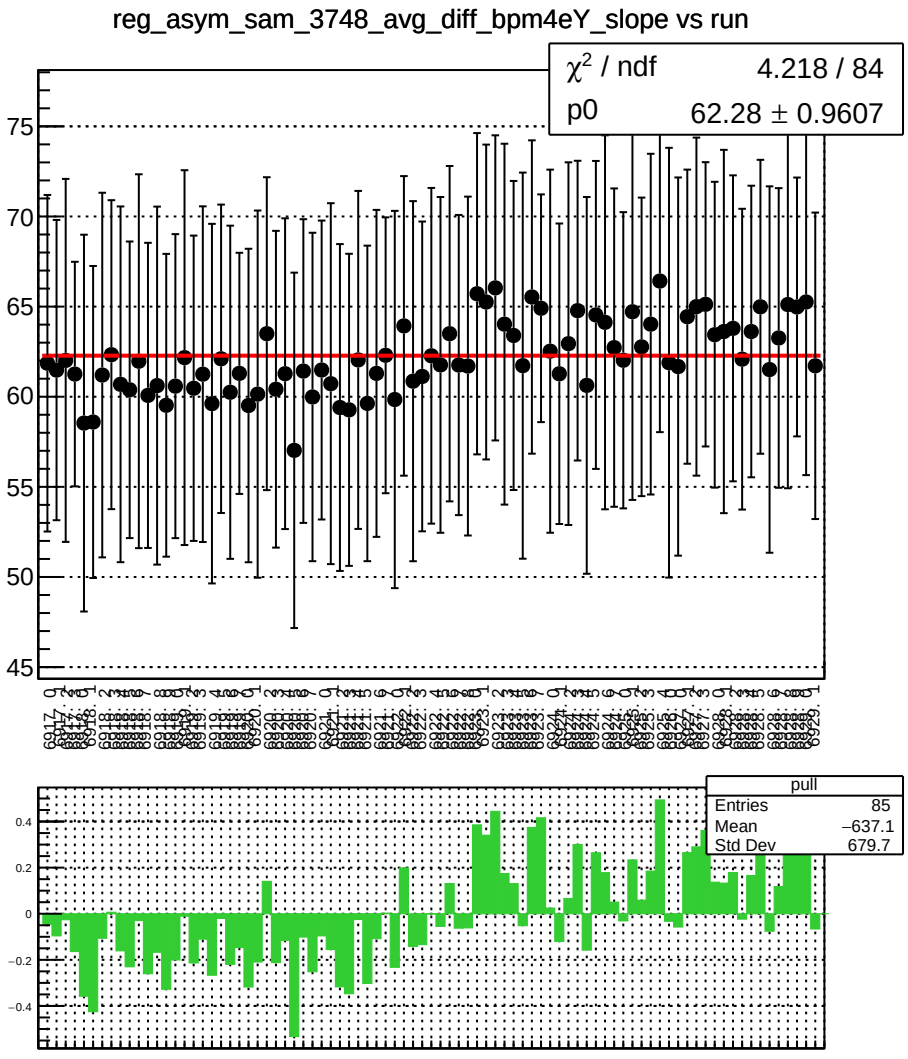

pull1D
Entries 85
Mean 0.006151
Std Dev 0.358

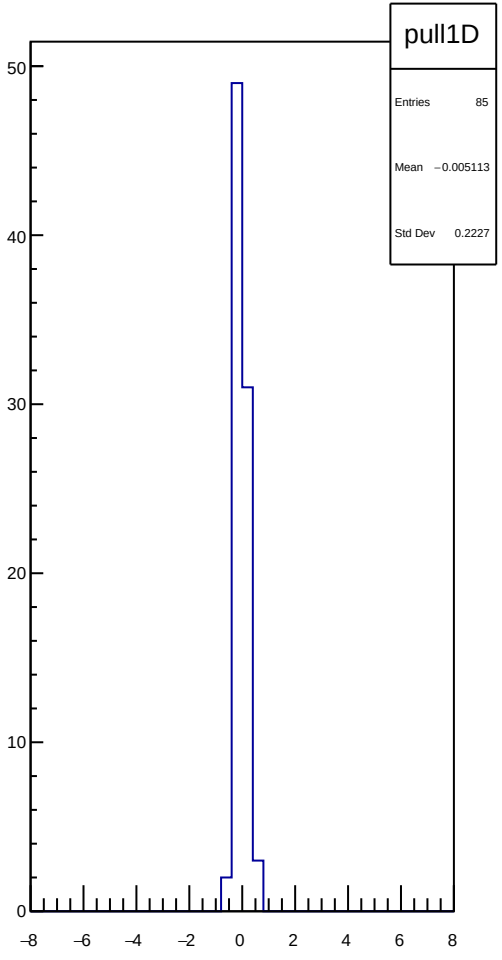

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 5.746 / 84
p0 −19.52 ± 1.232
pull
Entries 85
Mean 2078
Std Dev 2031

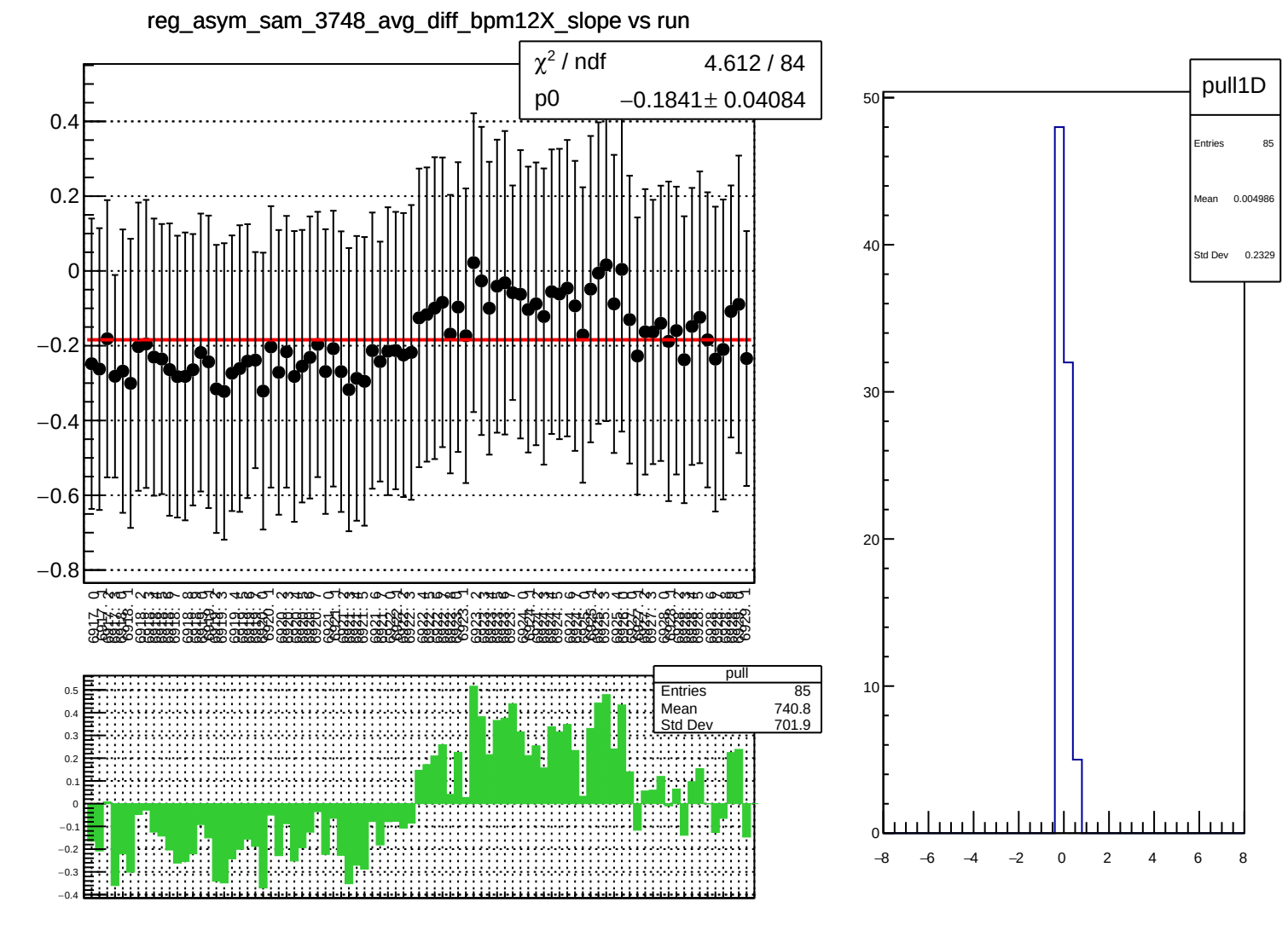

pull1D
Entries 85
Mean 0.001909
Std Dev 0.26

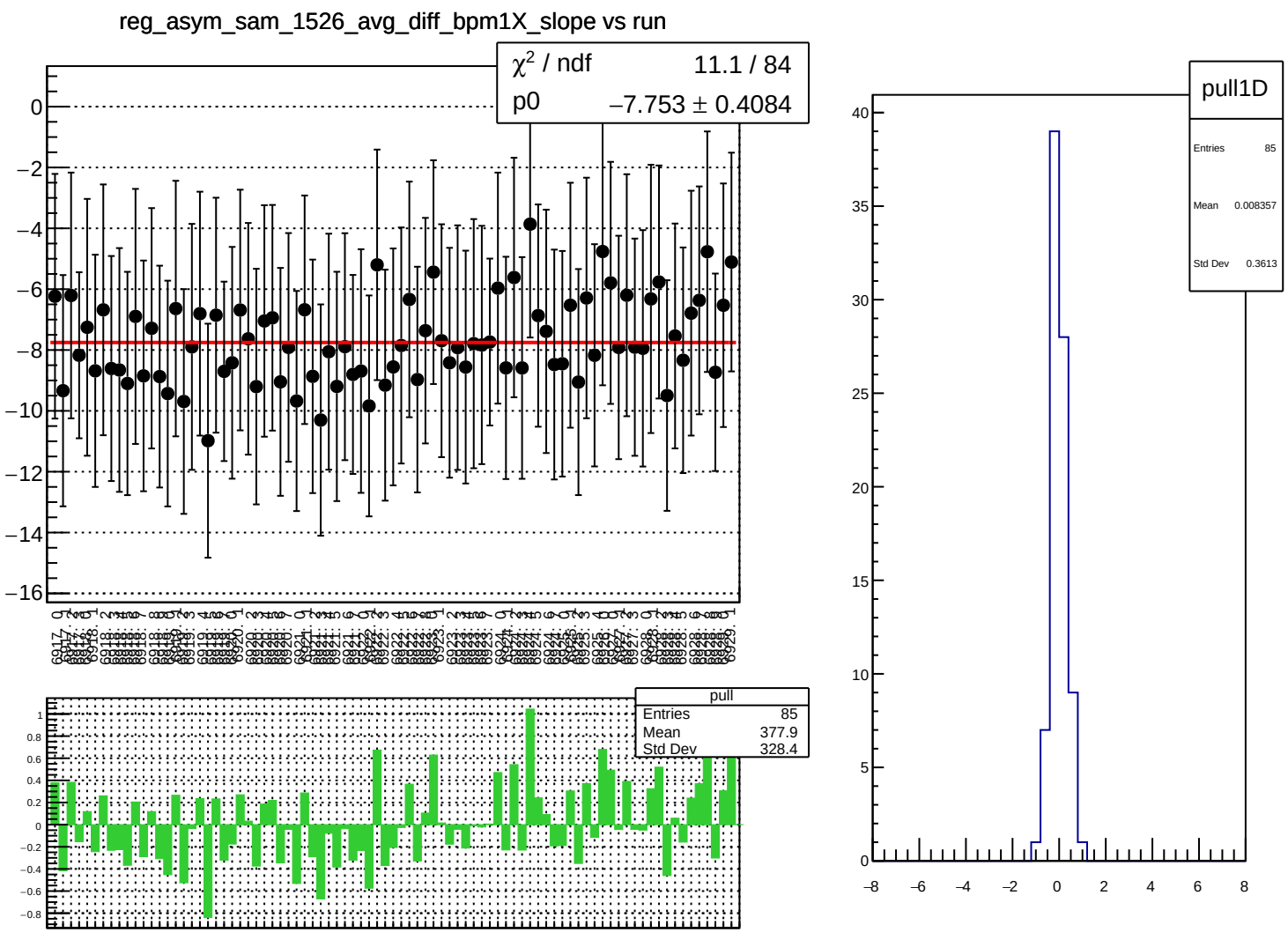

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.922 / 84
p0 −2.256 ± 0.846
pull
Entries 85
Mean −132.2
Std Dev 173.9
pull1D
Entries 85
Mean 0.01245
Std Dev 0.185

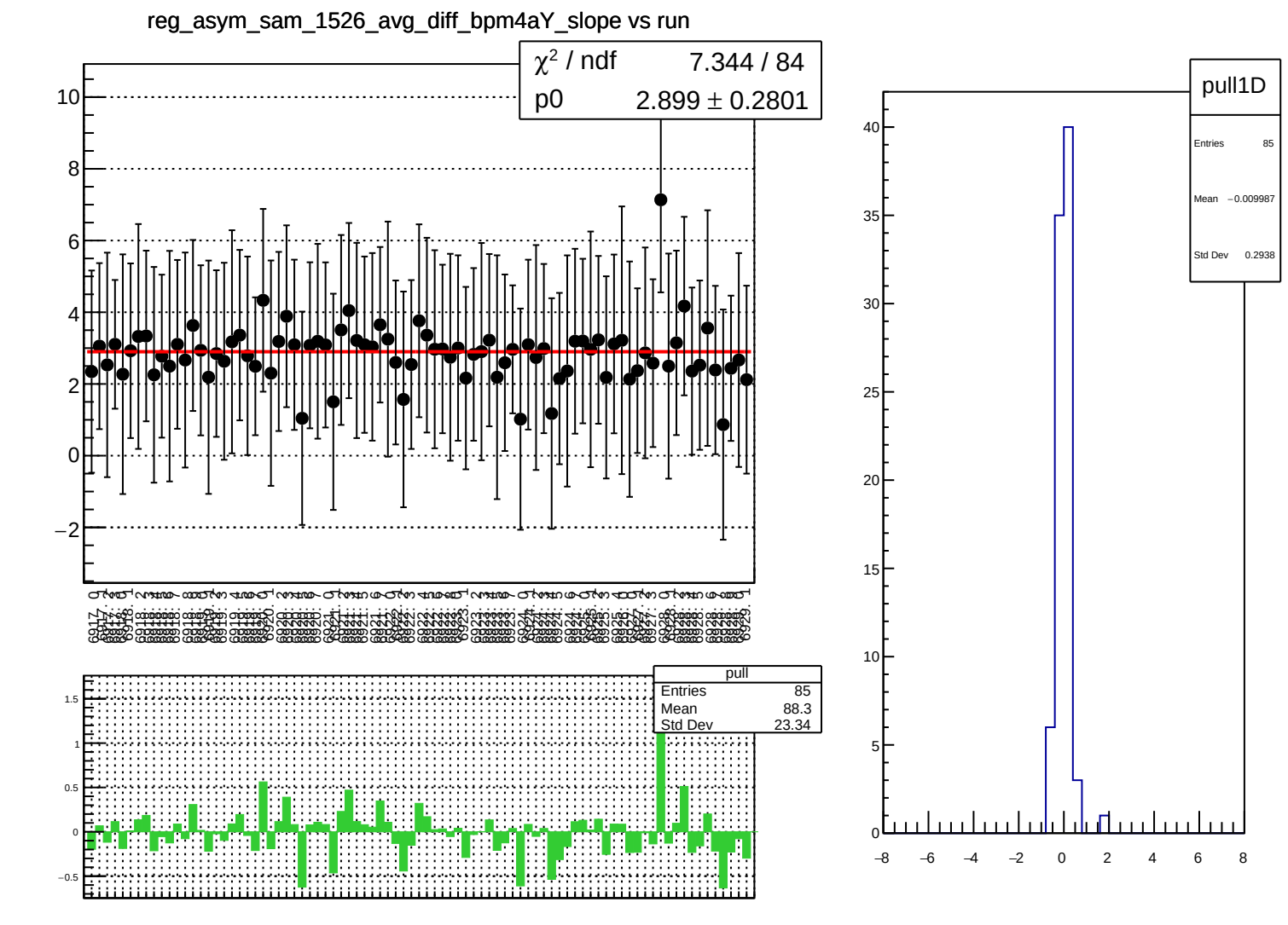

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.721 / 84
p0 −71.91 ± 1.142
−55
−60
−65
−70
−75
−80
−85
−90
pull
Entries 85
Mean 1091
Std Dev 1042
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.003809
Std Dev 0.2812
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

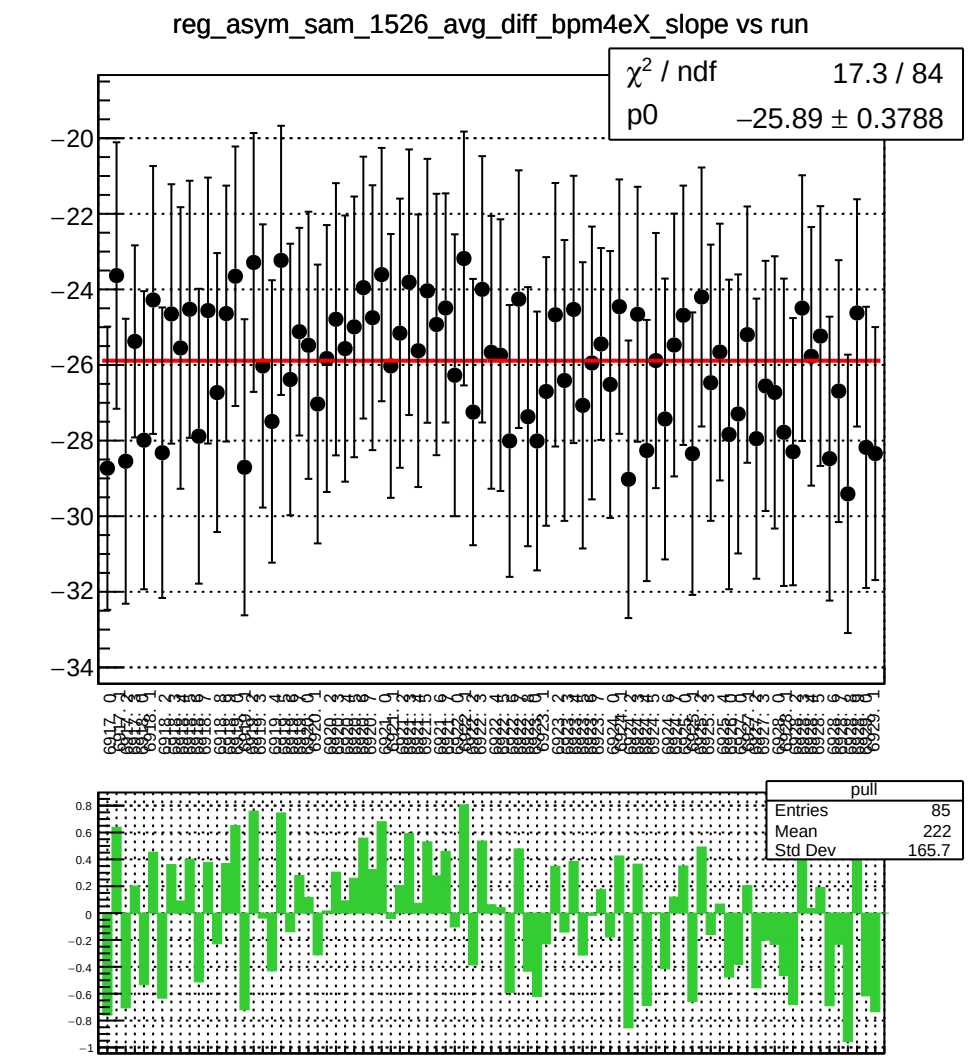

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.218 / 84
p0 62.28 ± 0.9607
pull
Entries 85
Mean −637.1
Std Dev 679.7

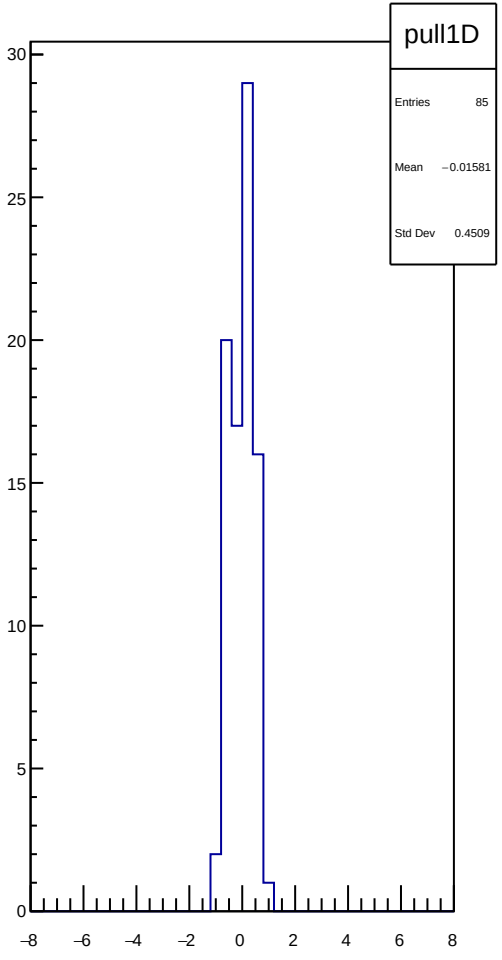

pull1D
Entries 85
Mean −0.005113
Std Dev 0.2227

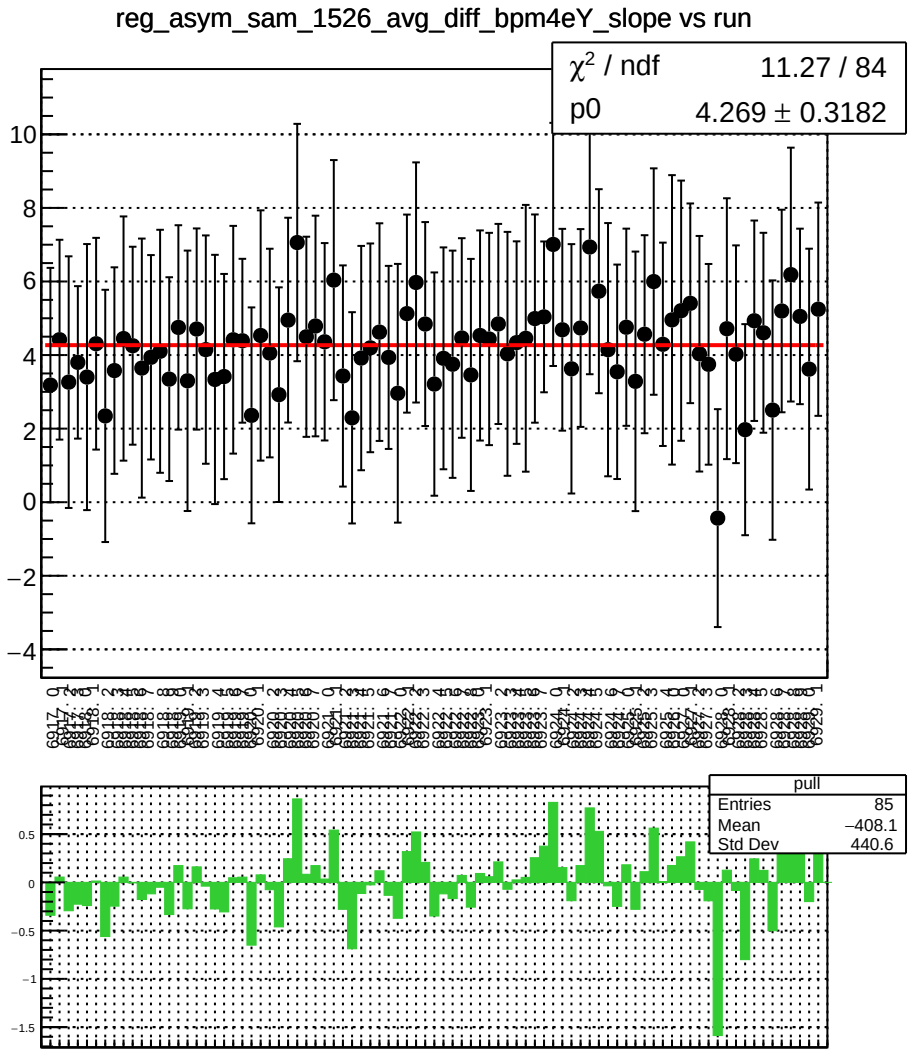

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 4.612 / 84
p0 −0.1841± 0.04084
pull
Entries 85
Mean 740.8
Std Dev 701.9
pull1D
Entries 85
Mean 0.004986
Std Dev 0.2329

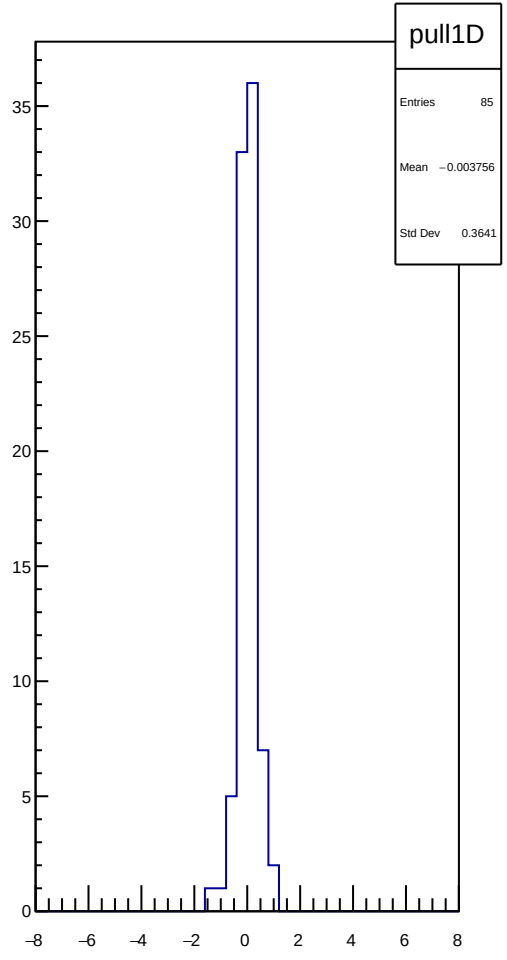

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 11.1 / 84
p0 −7.753 ± 0.4084
pull
Entries 85
Mean 377.9
Std Dev 328.4
pull1D
Entries 85
Mean 0.008357
Std Dev 0.3613

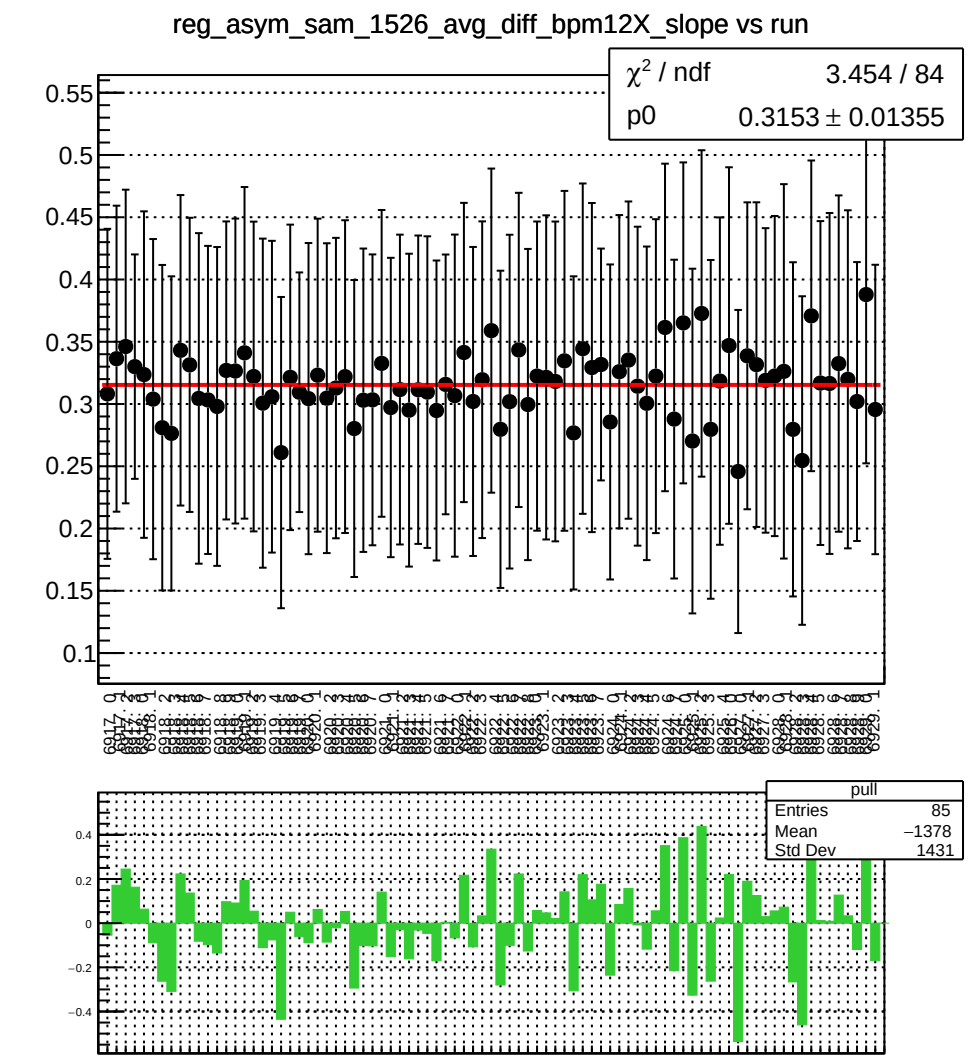

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.344 / 84
p0 2.899 ± 0.2801
pull
Entries 85
Mean 88.3
Std Dev 23.34
pull1D
Entries 85
Mean −0.009987
Std Dev 0.2938

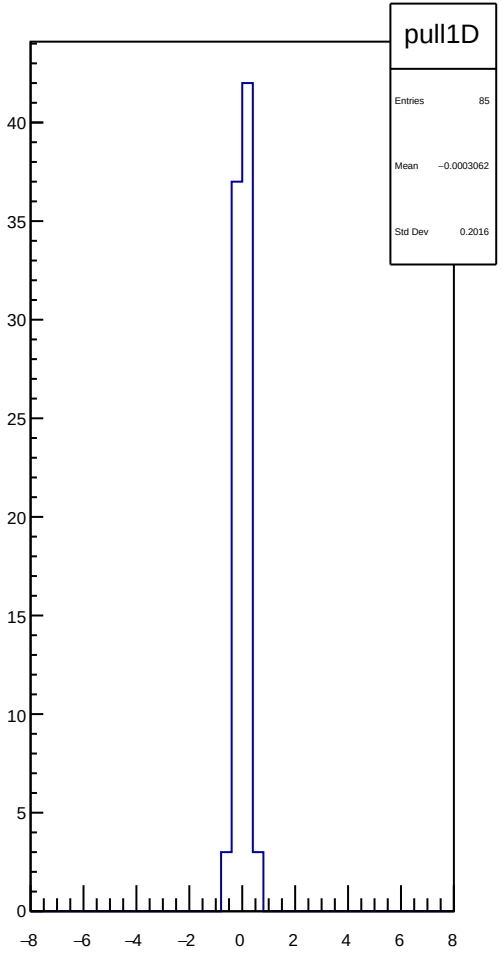

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.3 / 84
p0 −25.89 ± 0.3788
pull
Entries 85
Mean 222
Std Dev 165.7

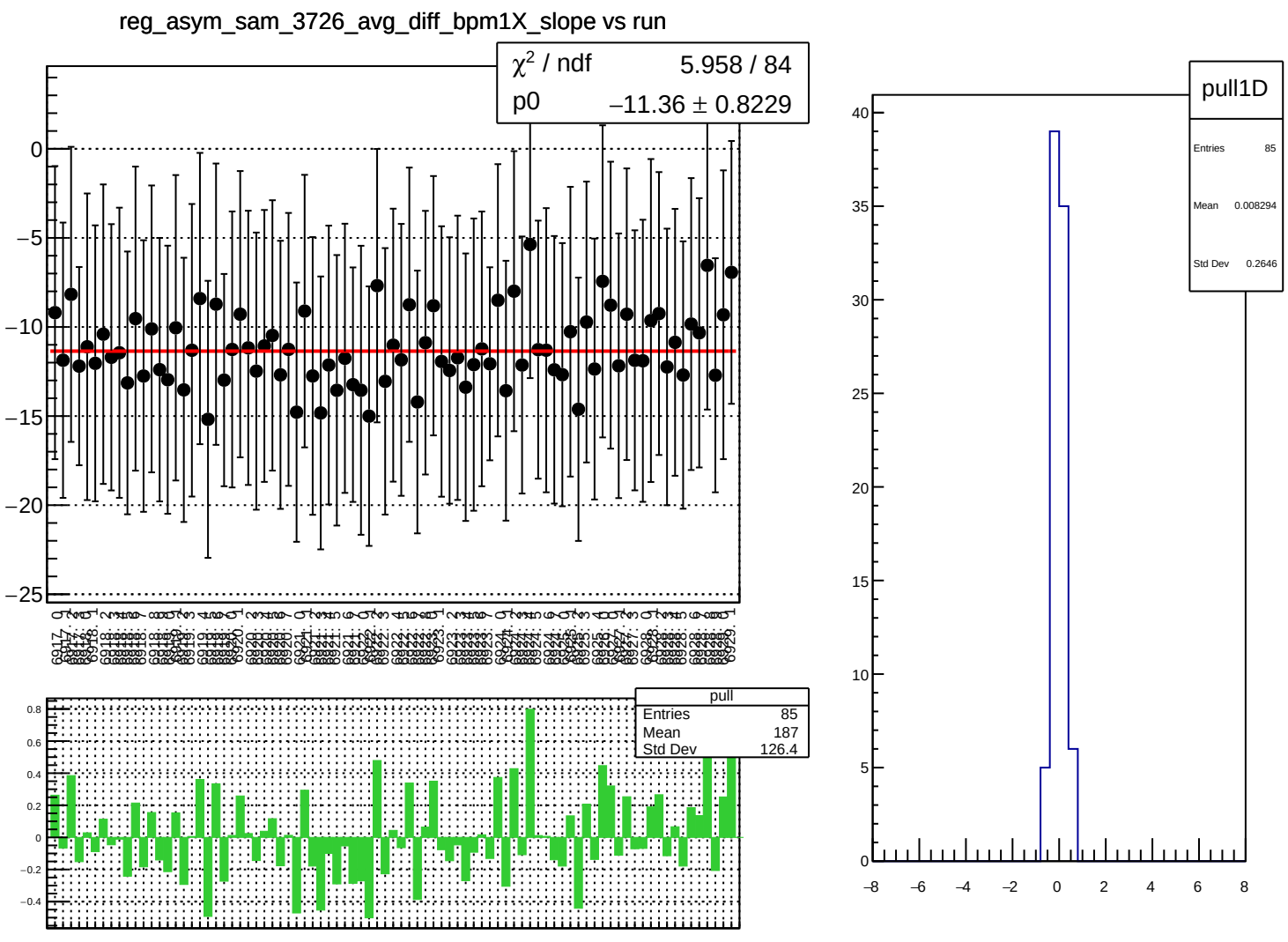

pull1D
Entries 85
Mean −0.01581
Std Dev 0.4509

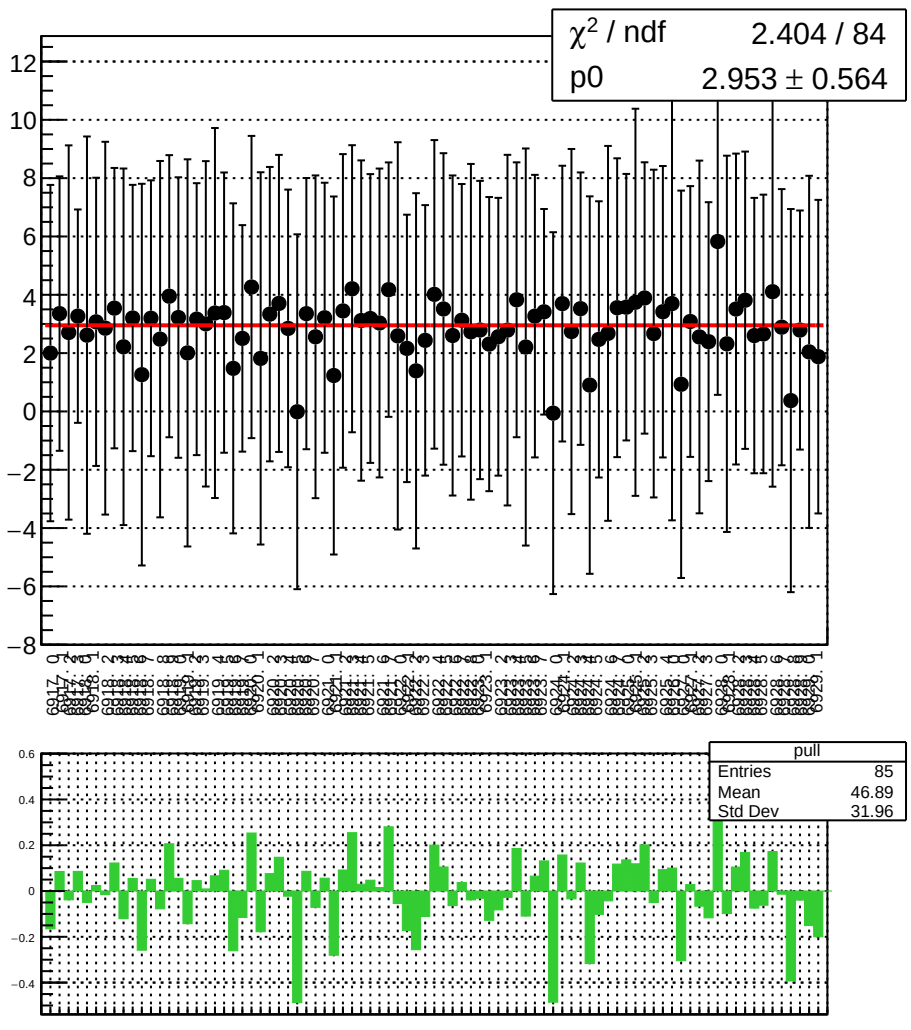

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.27 / 84
p0 4.269 ± 0.3182
pull
Entries 85
Mean −408.1
Std Dev 440.6

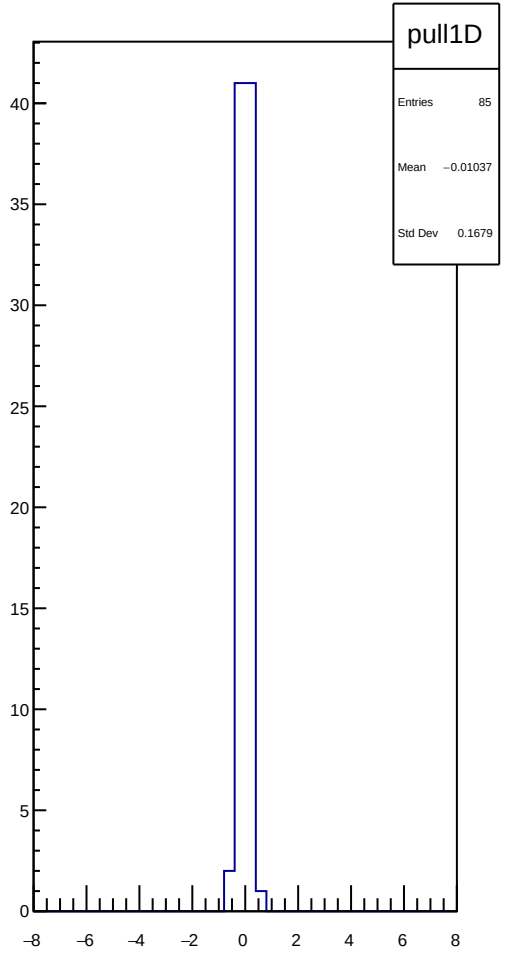

pull1D
Entries 85
Mean −0.003756
Std Dev 0.3641

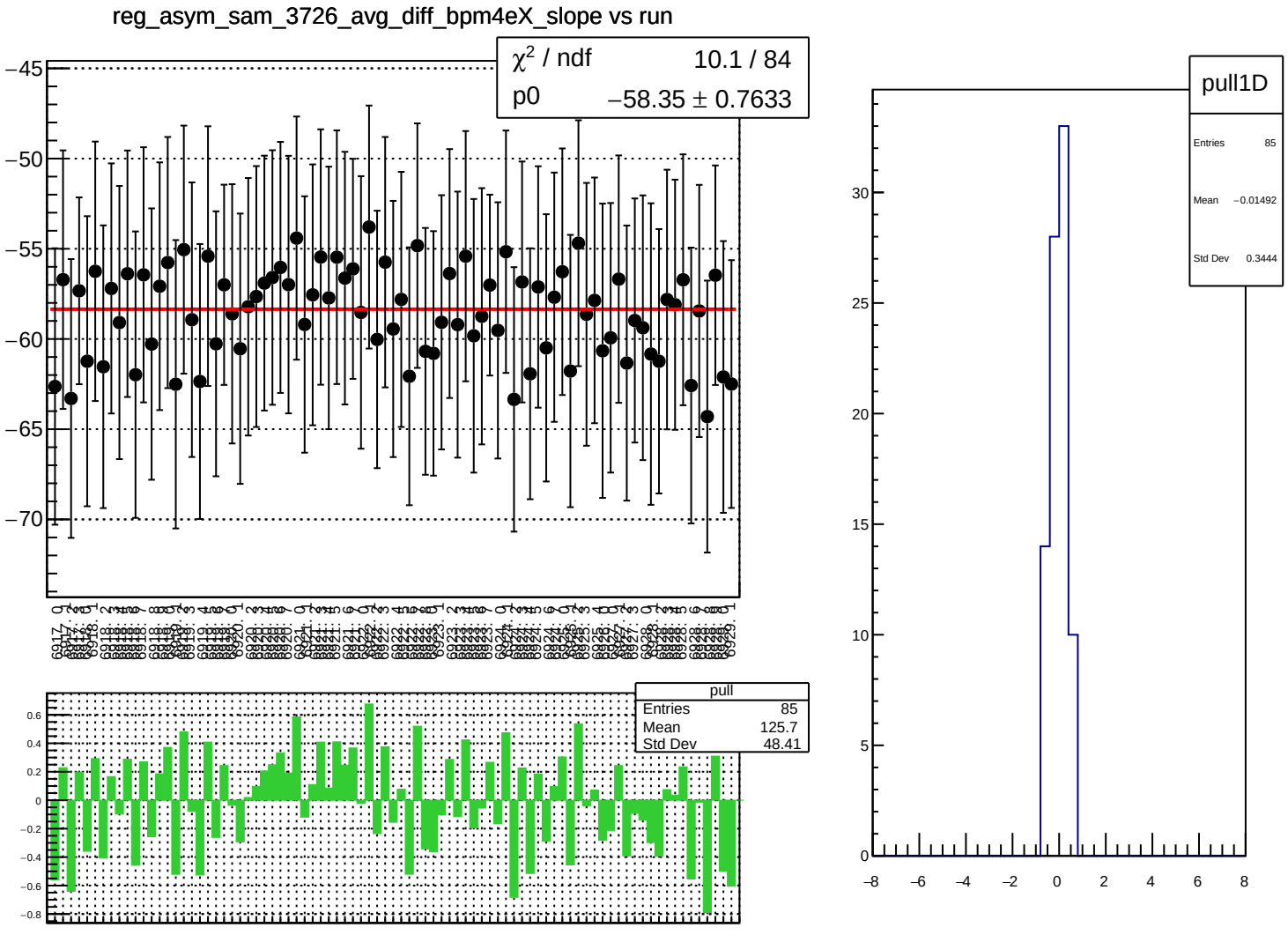

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 3.454 / 84
p0 0.3153 ± 0.01355
pull
Entries 85
Mean −1378
Std Dev 1431

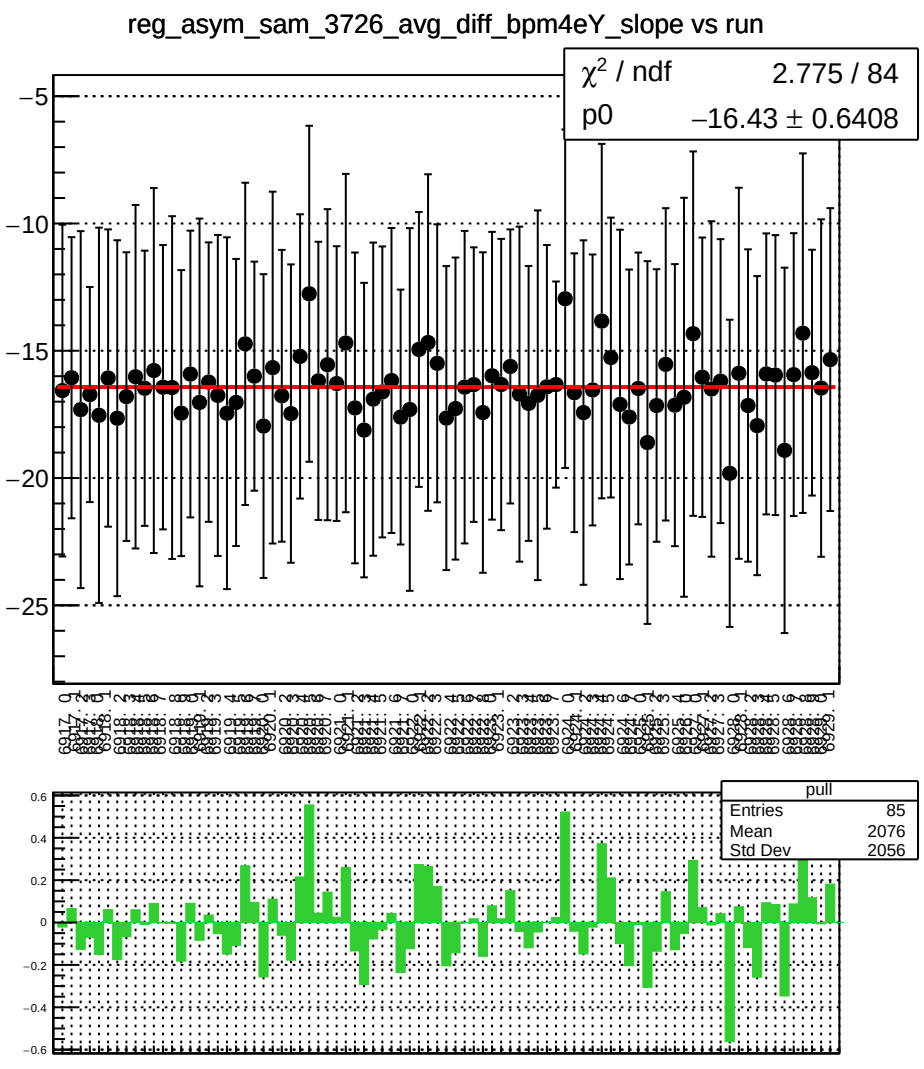

pull1D
Entries 85
Mean −0.0003062
Std Dev 0.2016

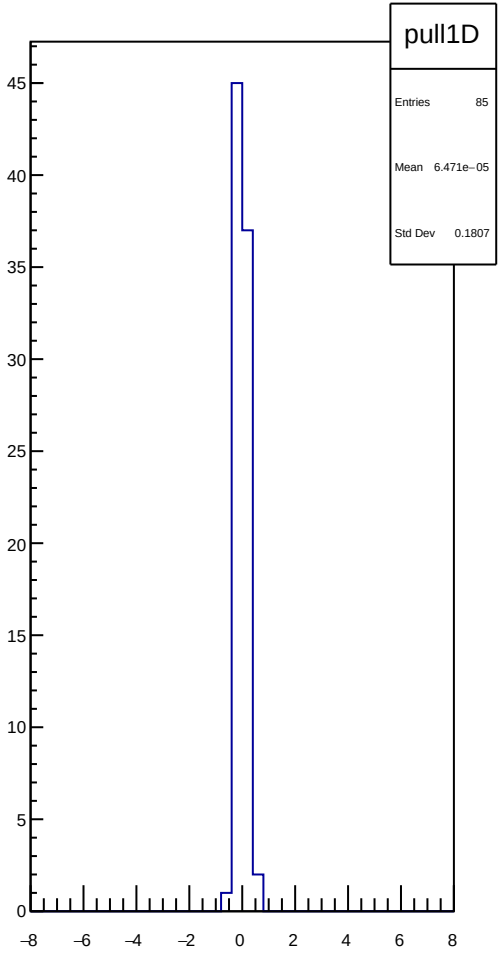

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 5.958 / 84
p0 −11.36 ± 0.8229
pull
Entries 85
Mean 187
Std Dev 126.4
pull1D
Entries 85
Mean 0.008294
Std Dev 0.2646

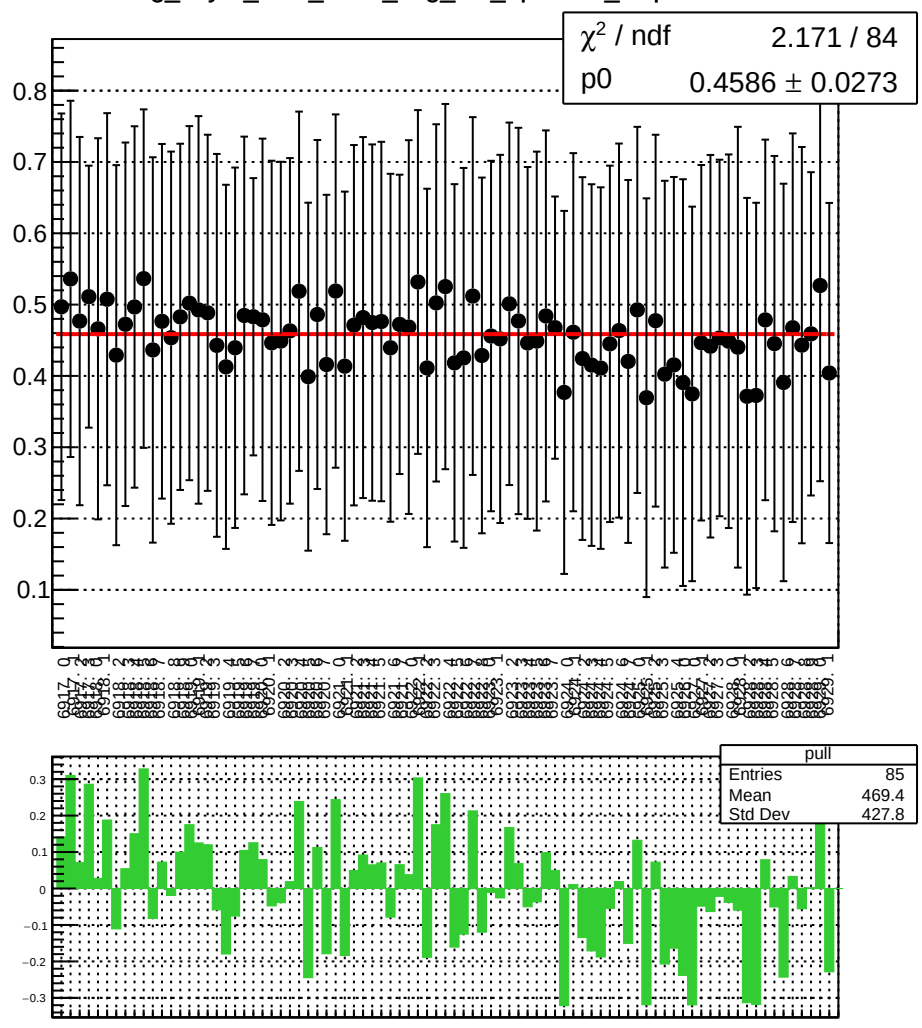

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.404 / 84
p0 2.953 ± 0.564
pull
Entries 85
Mean 46.89
Std Dev 31.96

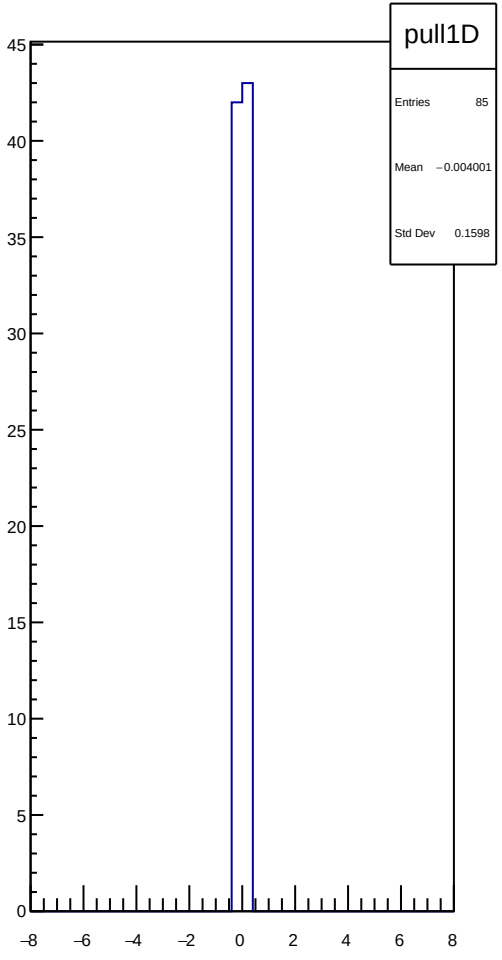

pull1D
Entries 85
Mean −0.01037
Std Dev 0.1679

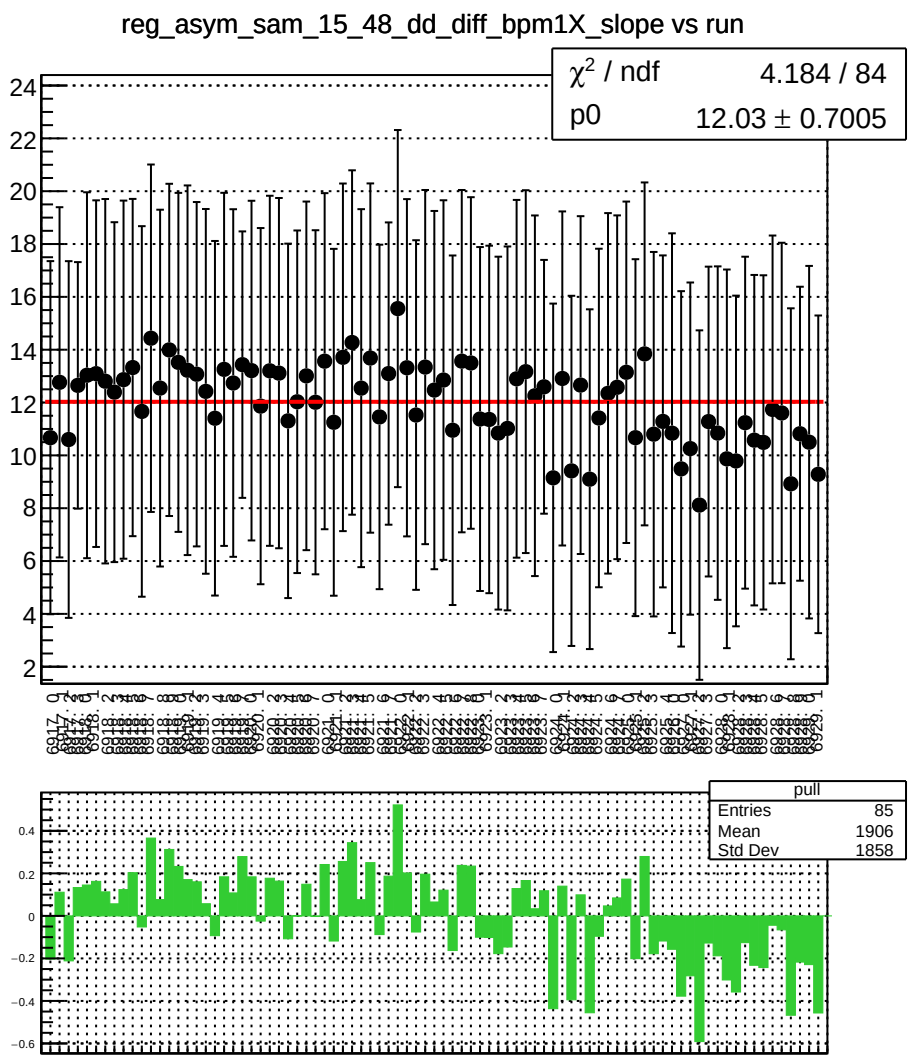

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.1 / 84
p0 −58.35 ± 0.7633
pull
Entries 85
Mean 125.7
Std Dev 48.41
pull1D
Entries 85
Mean −0.01492
Std Dev 0.3444

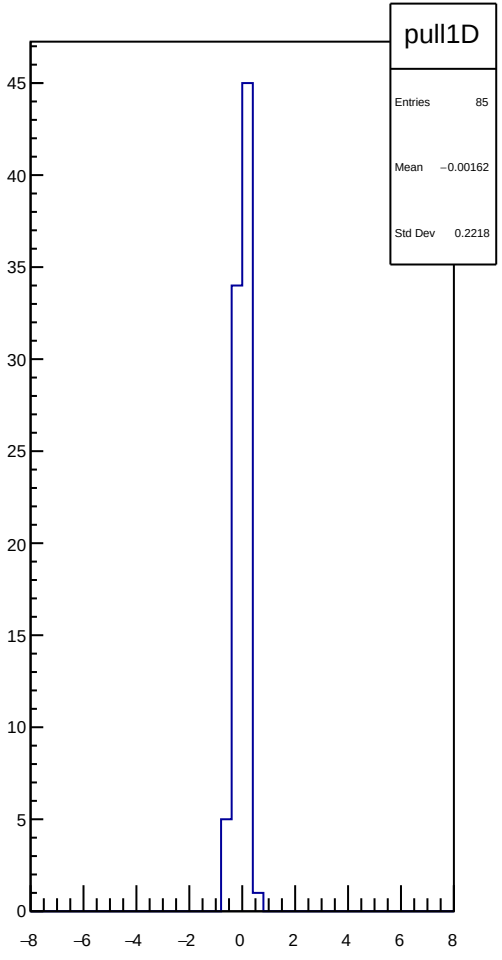

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.775 / 84
p0 −16.43 ± 0.6408
pull
Entries 85
Mean 2076
Std Dev 2056

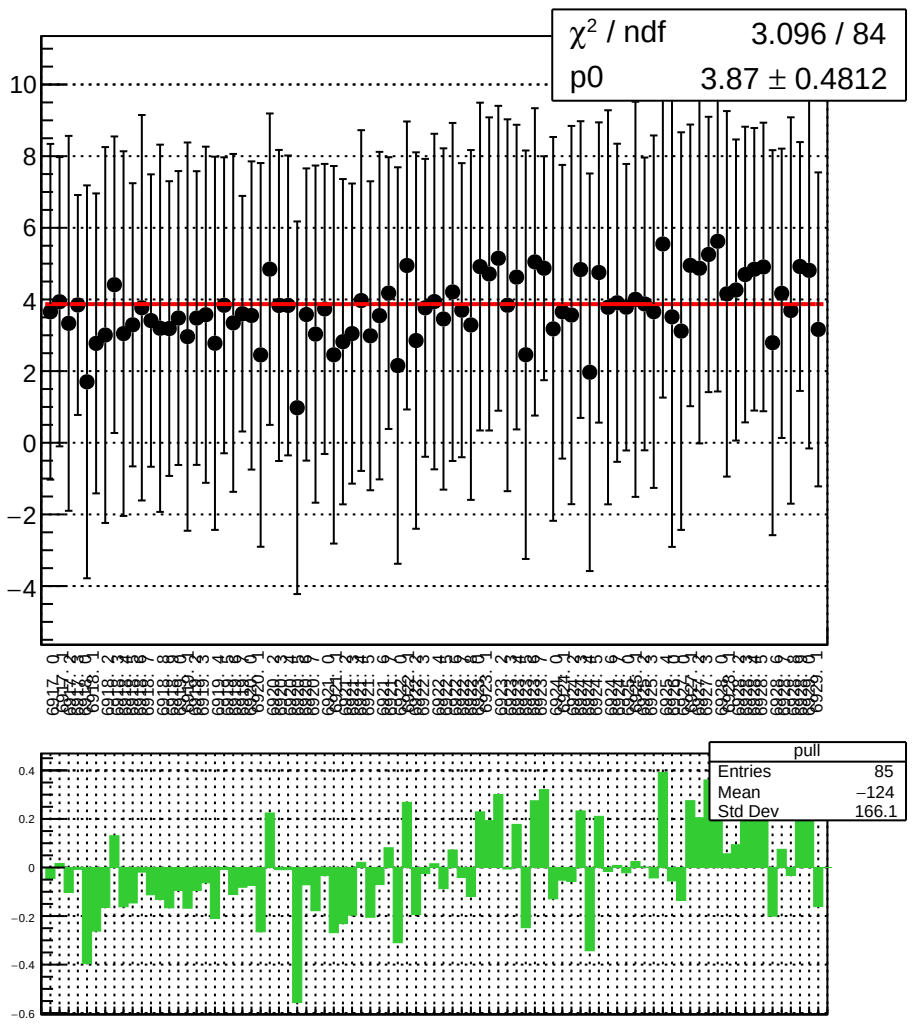

pull1D
Entries 85
Mean 6.471e−05
Std Dev 0.1807

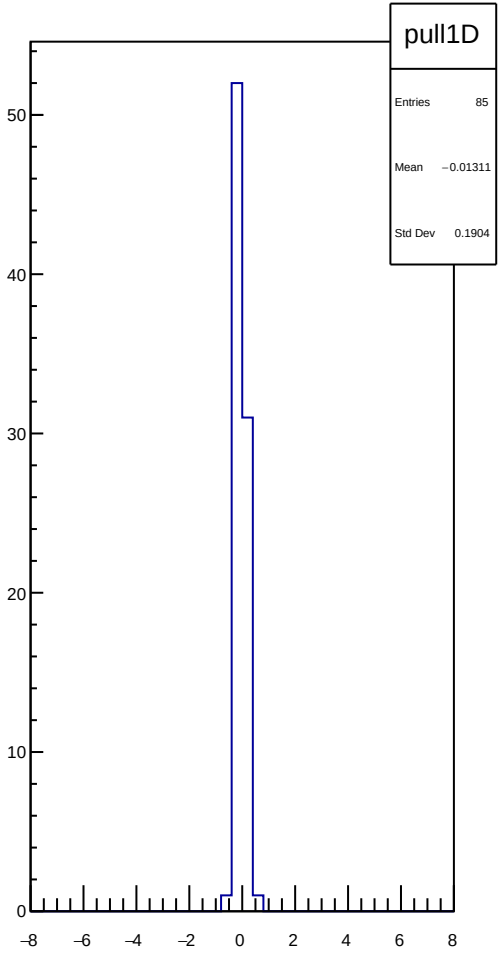

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.171 / 84
p0 0.4586 ± 0.0273
pull
Entries 85
Mean 469.4
Std Dev 427.8

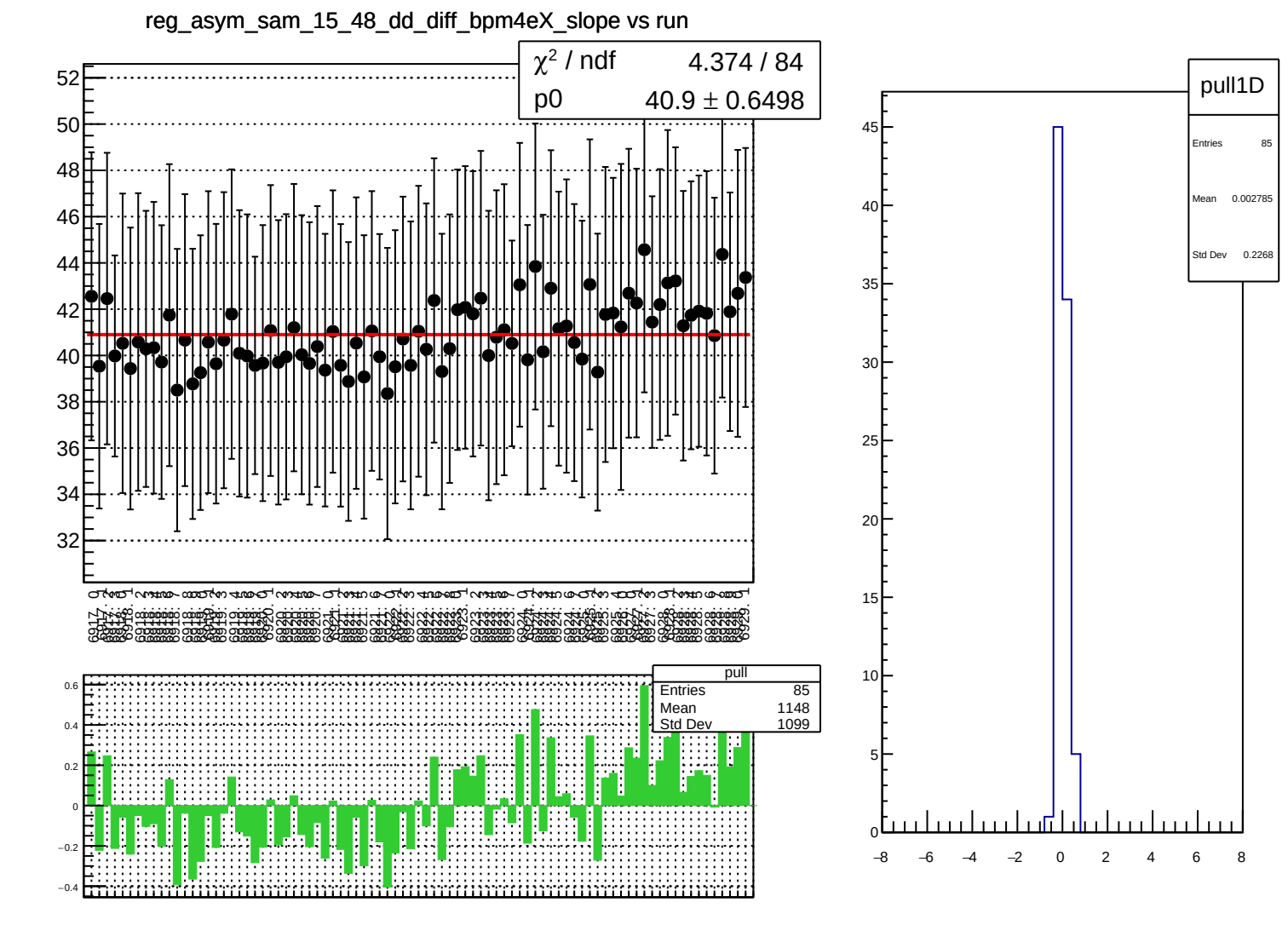

pull1D
Entries 85
Mean −0.004001
Std Dev 0.1598

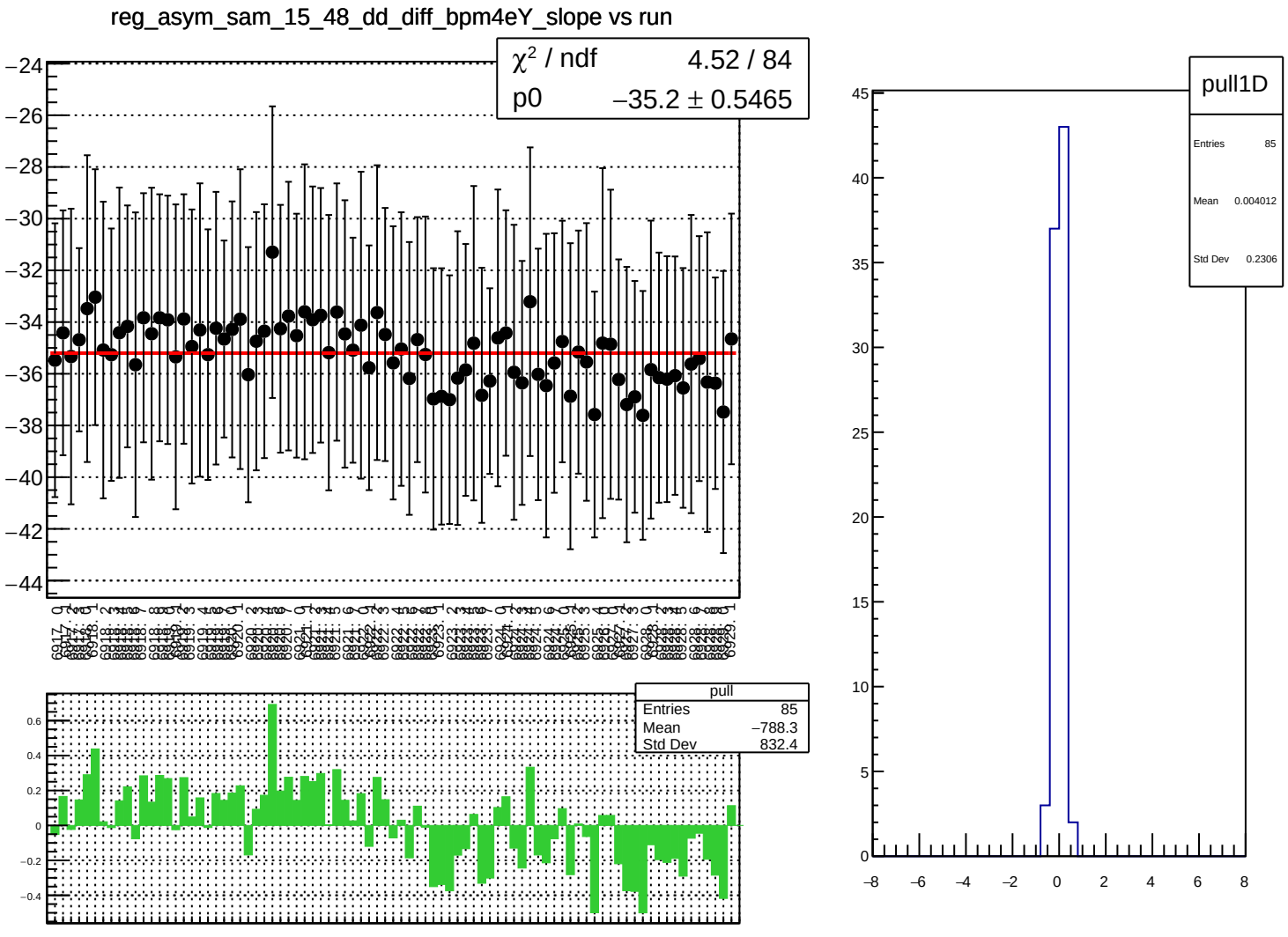

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.184 / 84
p0 12.03 ± 0.7005
pull
Entries 85
Mean 1906
Std Dev 1858

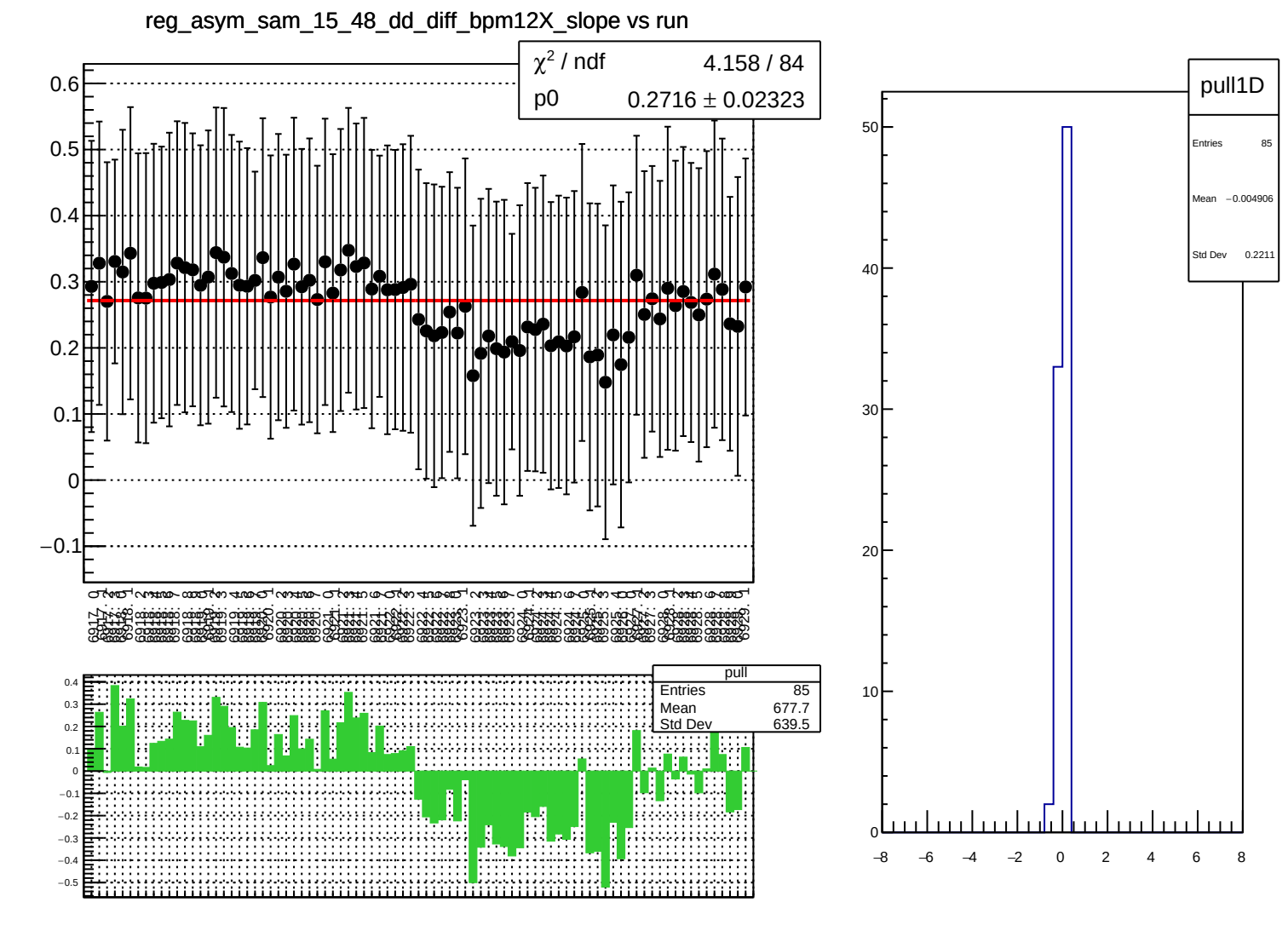

pull1D
Entries 85
Mean −0.00162
Std Dev 0.2218

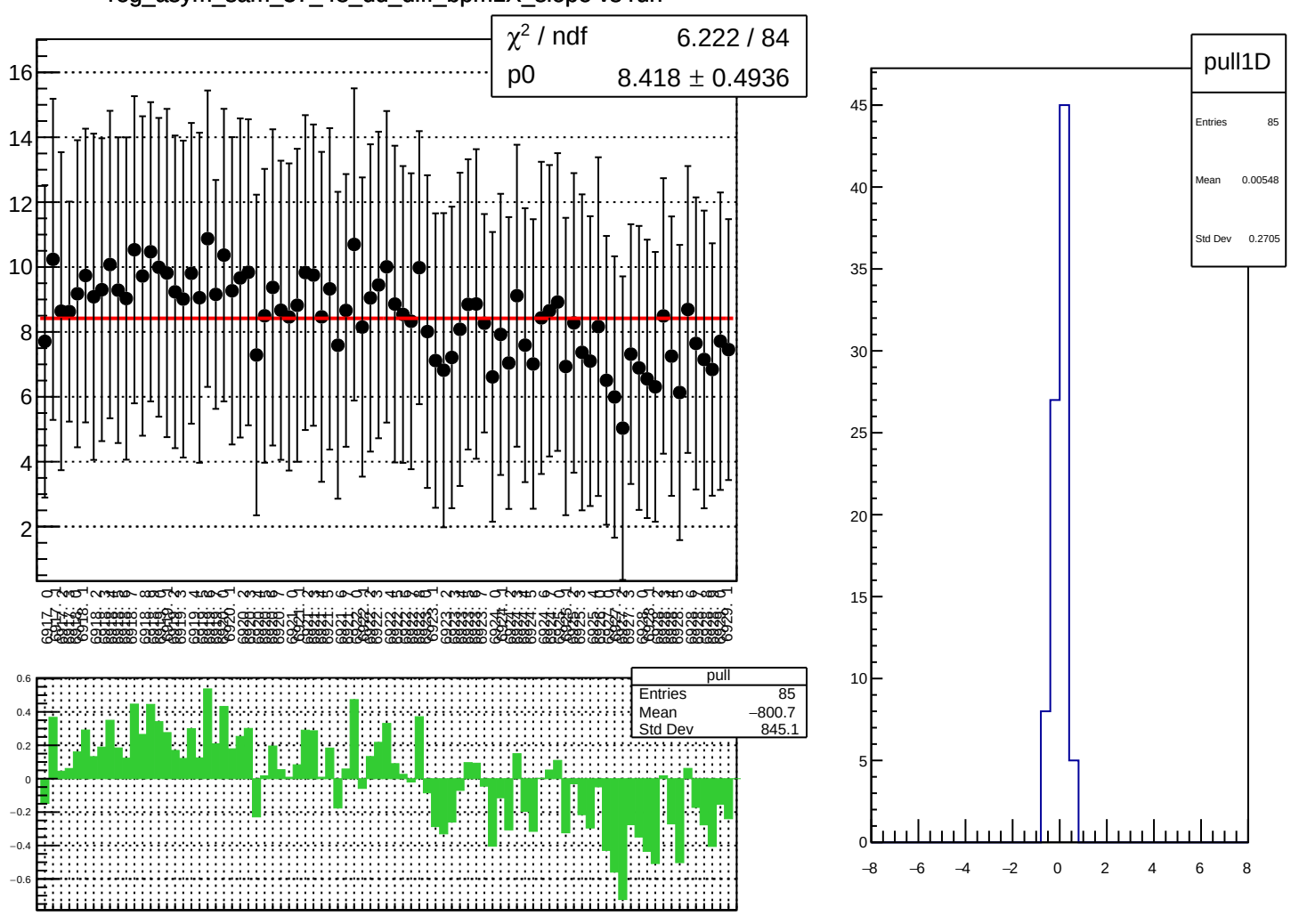

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.096 / 84
p0 3.87 ± 0.4812
pull
Entries 85
Mean −124
Std Dev 166.1

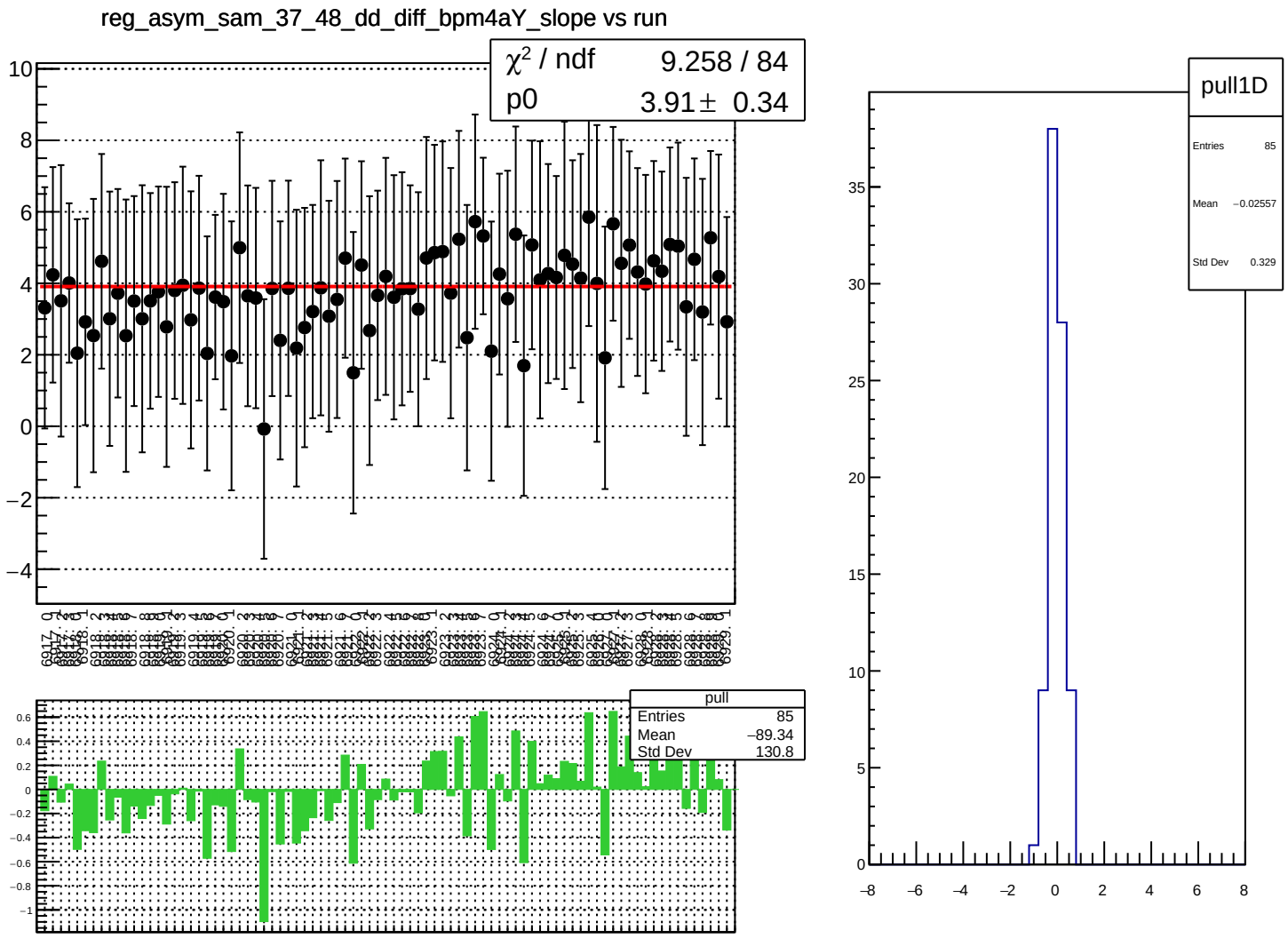

pull1D
Entries 85
Mean −0.01311
Std Dev 0.1904

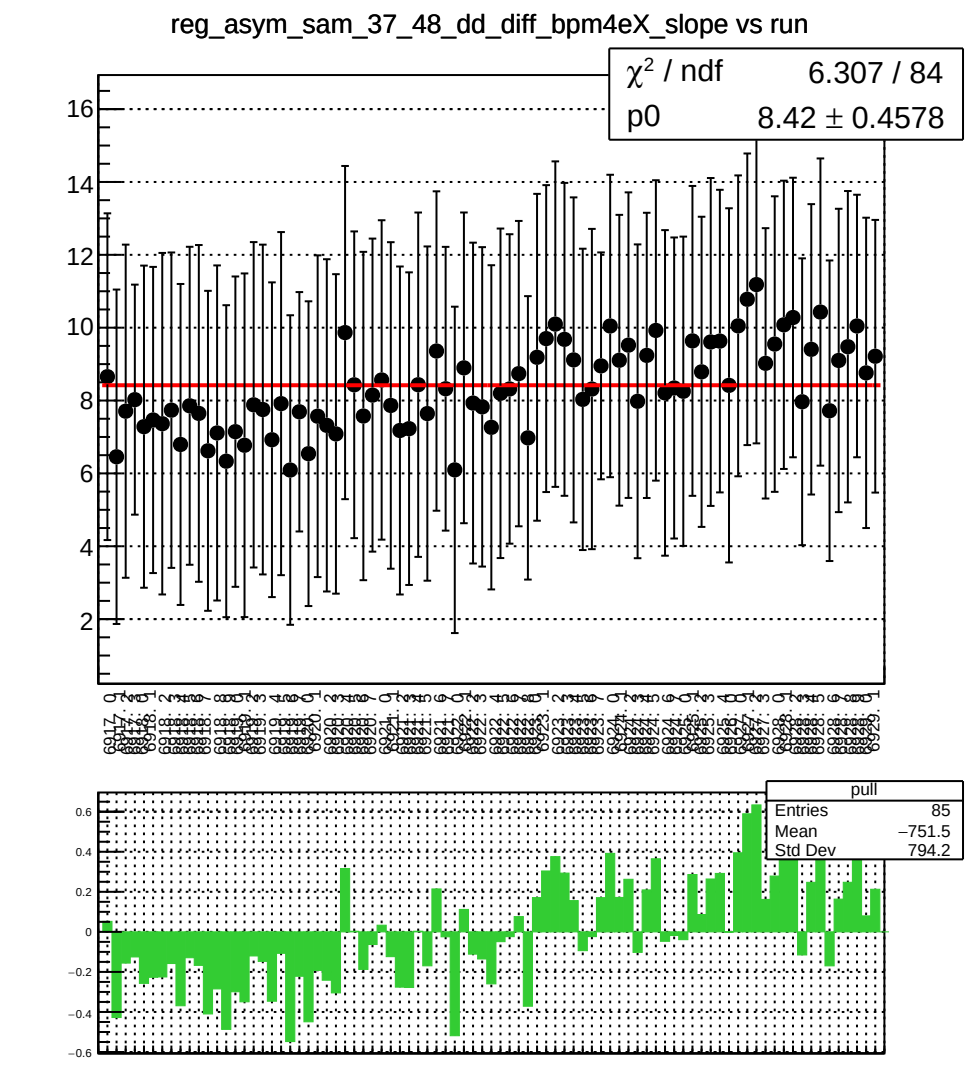

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.374 / 84
p0 40.9 ± 0.6498
pull
Entries 85
Mean 1148
Std Dev 1099
pull1D
Entries 85
Mean 0.002785
Std Dev 0.2268

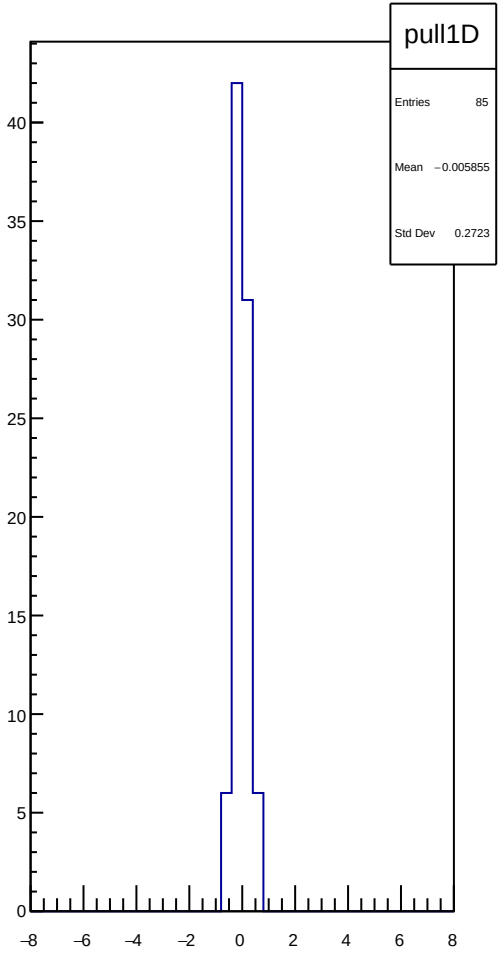

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.52 / 84
p0 −35.2 ± 0.5465
pull
Entries 85
Mean −788.3
Std Dev 832.4
pull1D
Entries 85
Mean 0.004012
Std Dev 0.2306

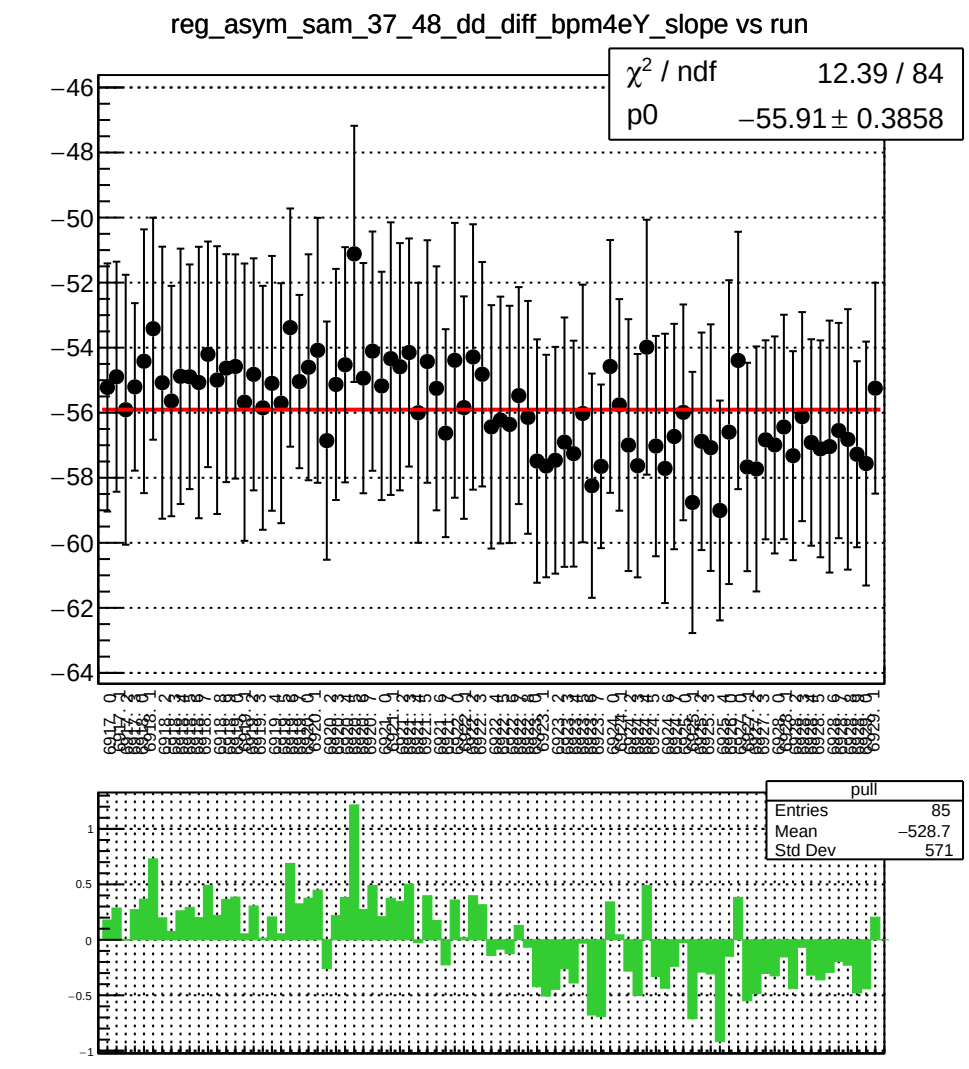

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.158 / 84
p0 0.2716 ± 0.02323
pull
Entries 85
Mean 677.7
Std Dev 639.5
pull1D
Entries 85
Mean −0.004906
Std Dev 0.2211

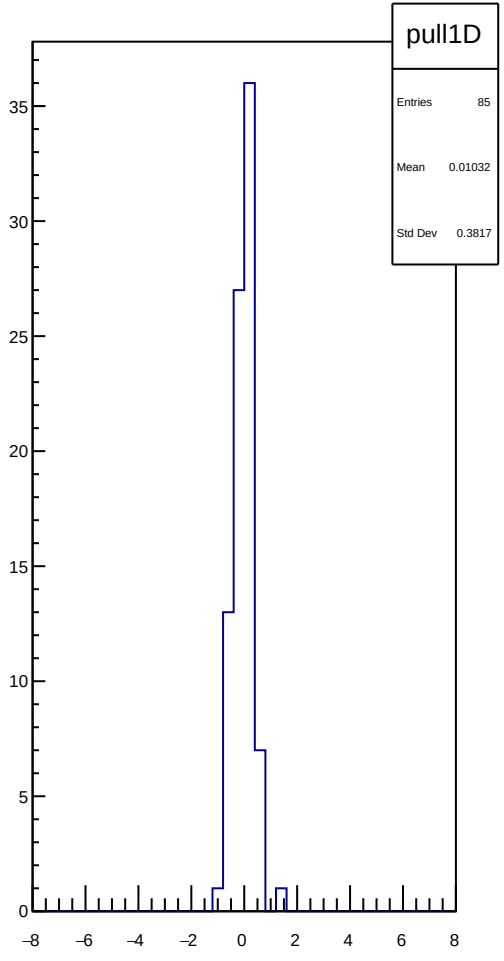

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.222 / 84
p0 8.418 ± 0.4936
pull
Entries 85
Mean −800.7
Std Dev 845.1
pull1D
Entries 85
Mean 0.00548
Std Dev 0.2705

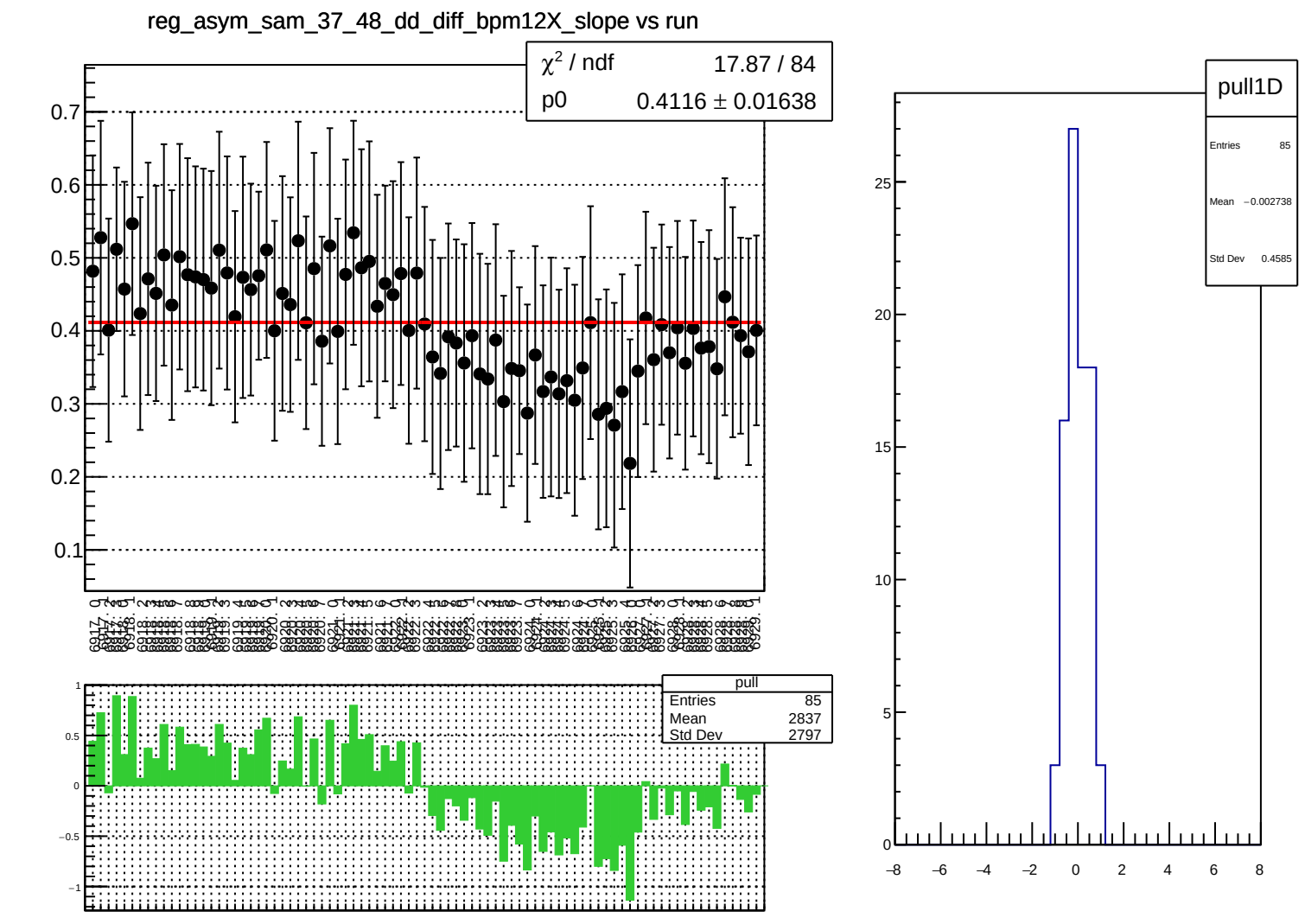

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.258 / 84
p0 3.91 ± 0.34
pull
Entries 85
Mean −89.34
Std Dev 130.8
pull1D
Entries 85
Mean −0.02557
Std Dev 0.329

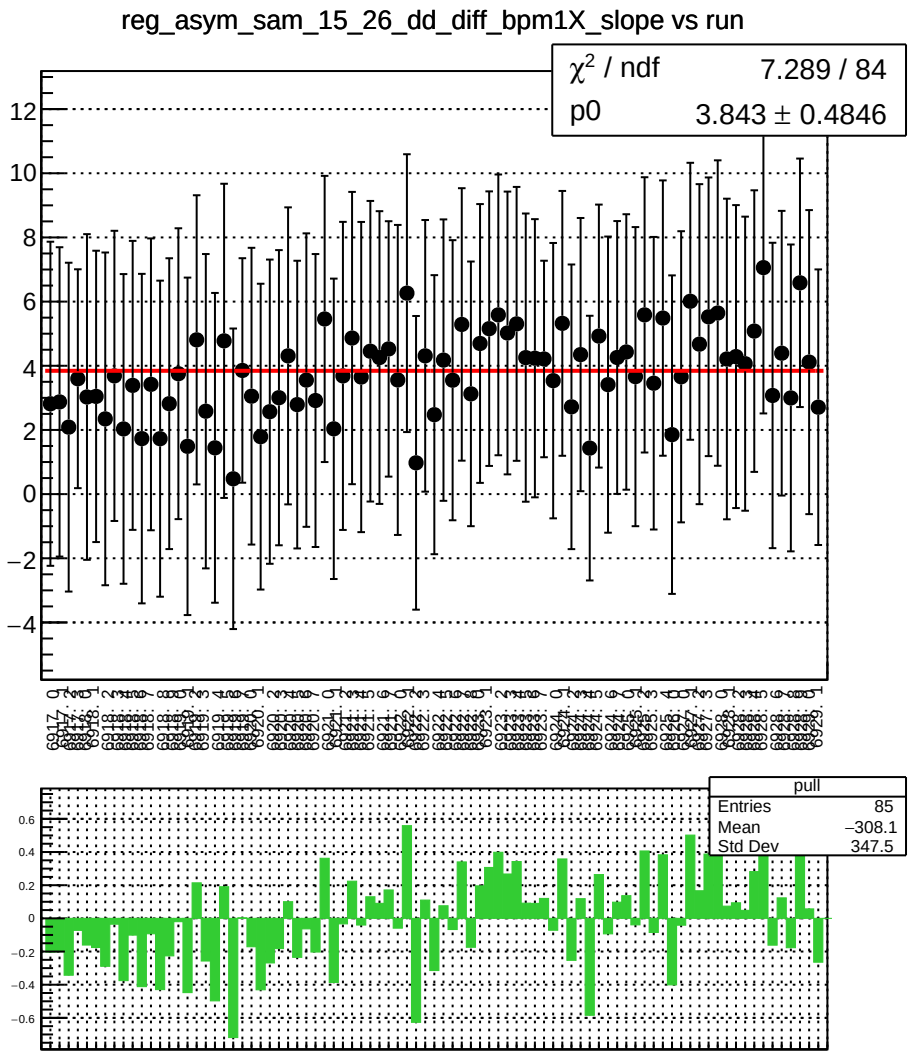

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.307 / 84
p0 8.42 ± 0.4578
pull
Entries 85
Mean −751.5
Std Dev 794.2

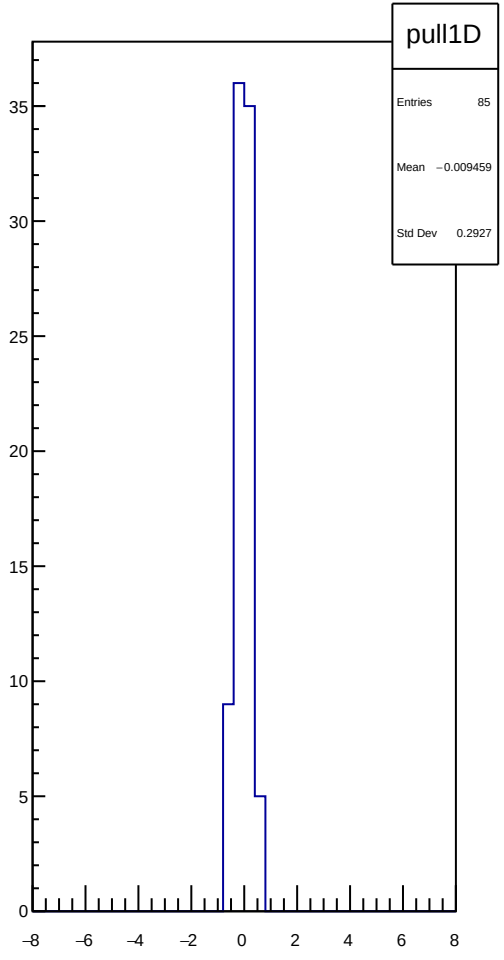

pull1D
Entries 85
Mean −0.005855
Std Dev 0.2723

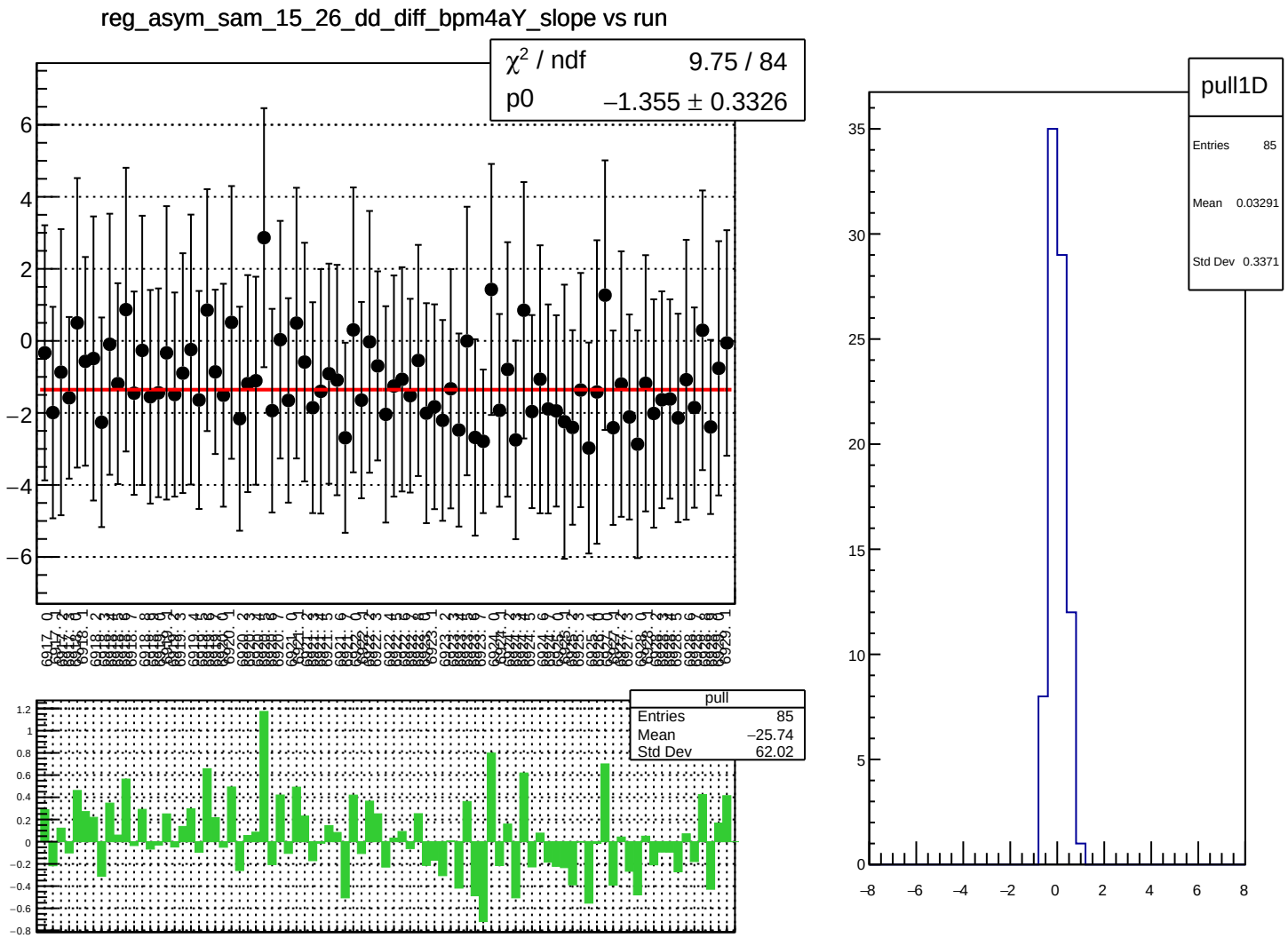

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.39 / 84
p0 −55.91 ± 0.3858
pull
Entries 85
Mean −528.7
Std Dev 571

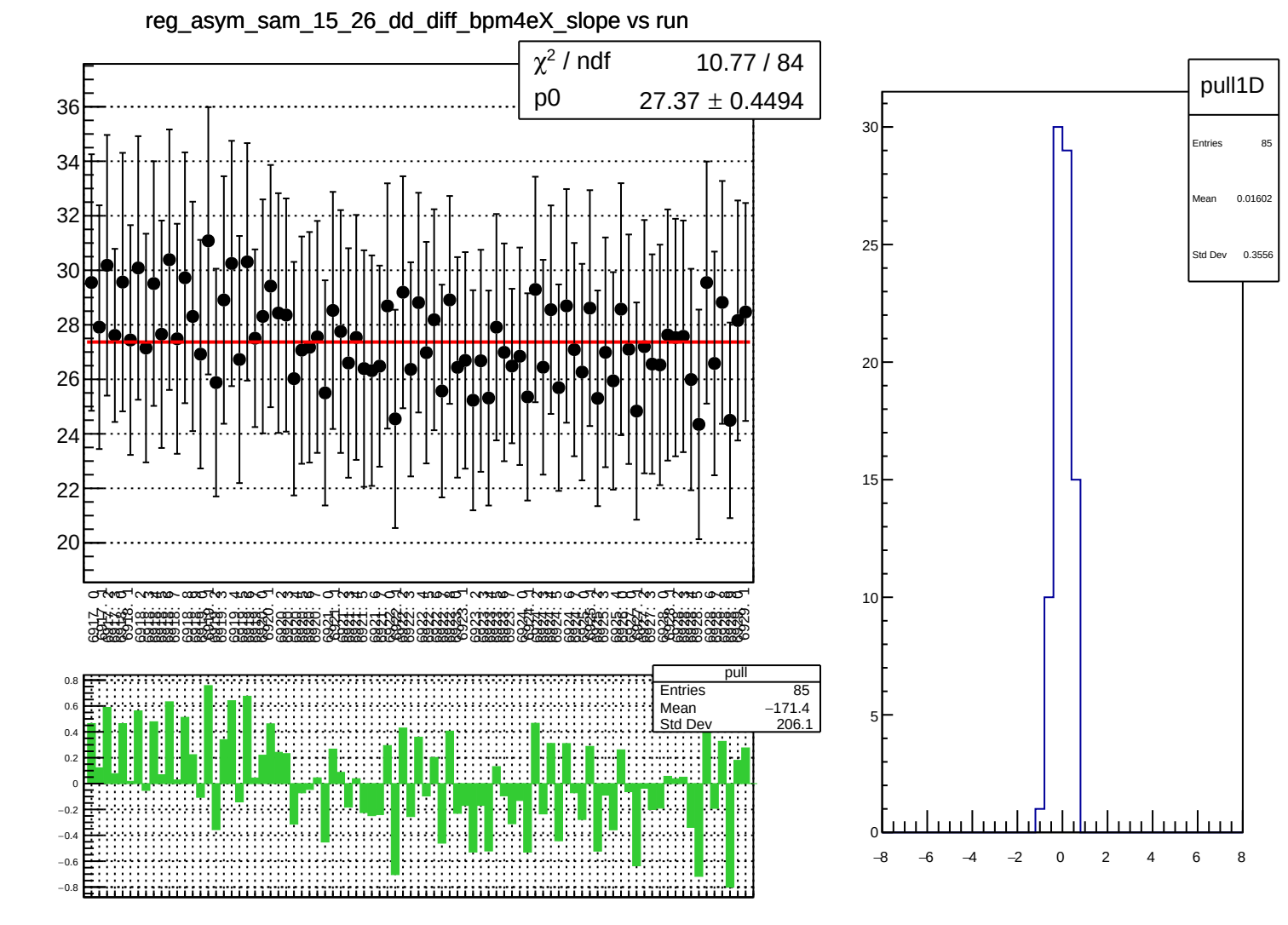

pull1D
Entries 85
Mean 0.01032
Std Dev 0.3817

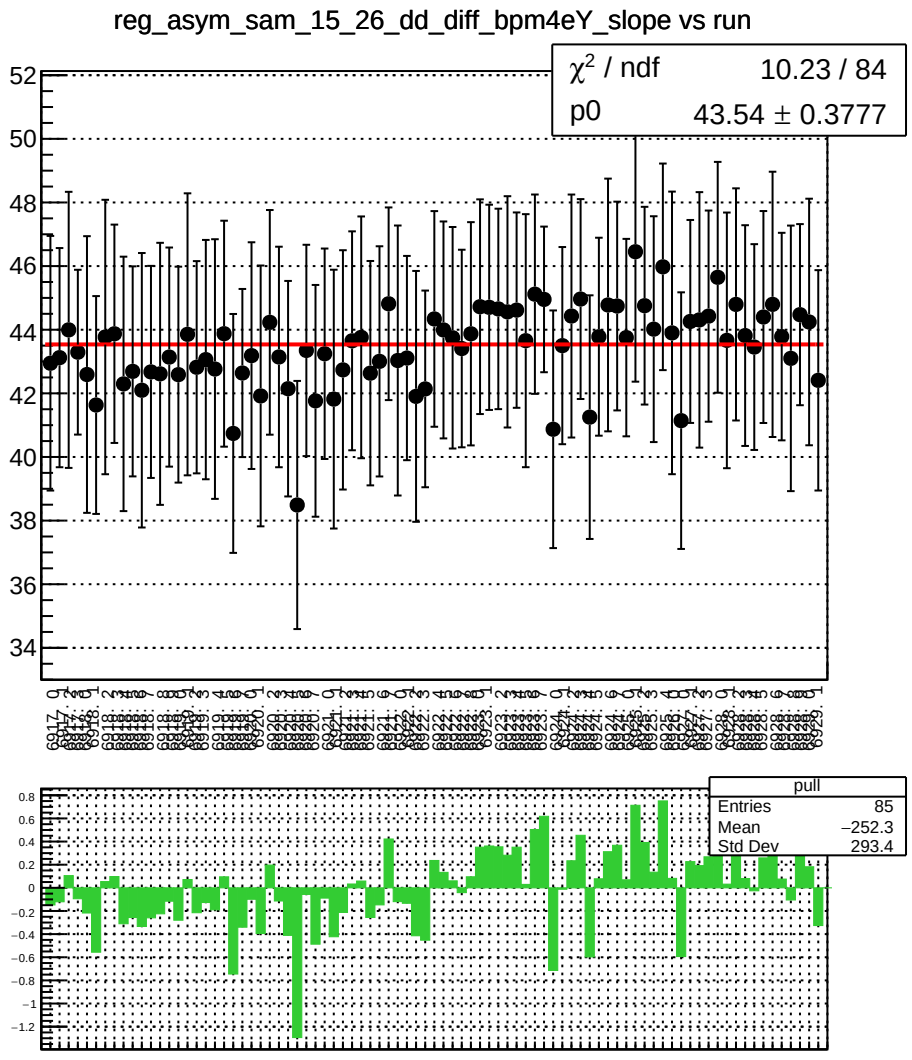

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 17.87 / 84
p0 0.4116 ± 0.01638
0.7
0.6
0.5
0.4
0.3
0.2
0.1
pull
Entries 85
Mean 2837
Std Dev 2797
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.002738
Std Dev 0.4585
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

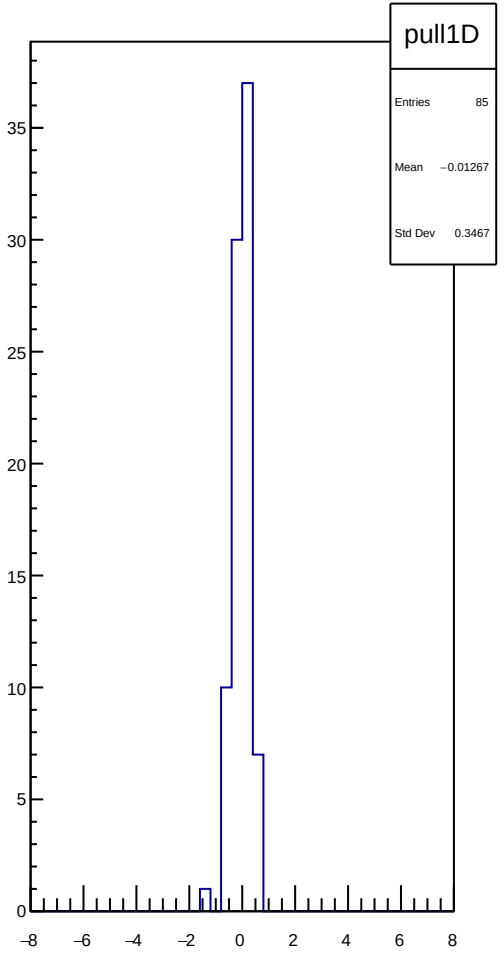

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 7.289 / 84
p0 3.843 ± 0.4846
pull
Entries 85
Mean −308.1
Std Dev 347.5

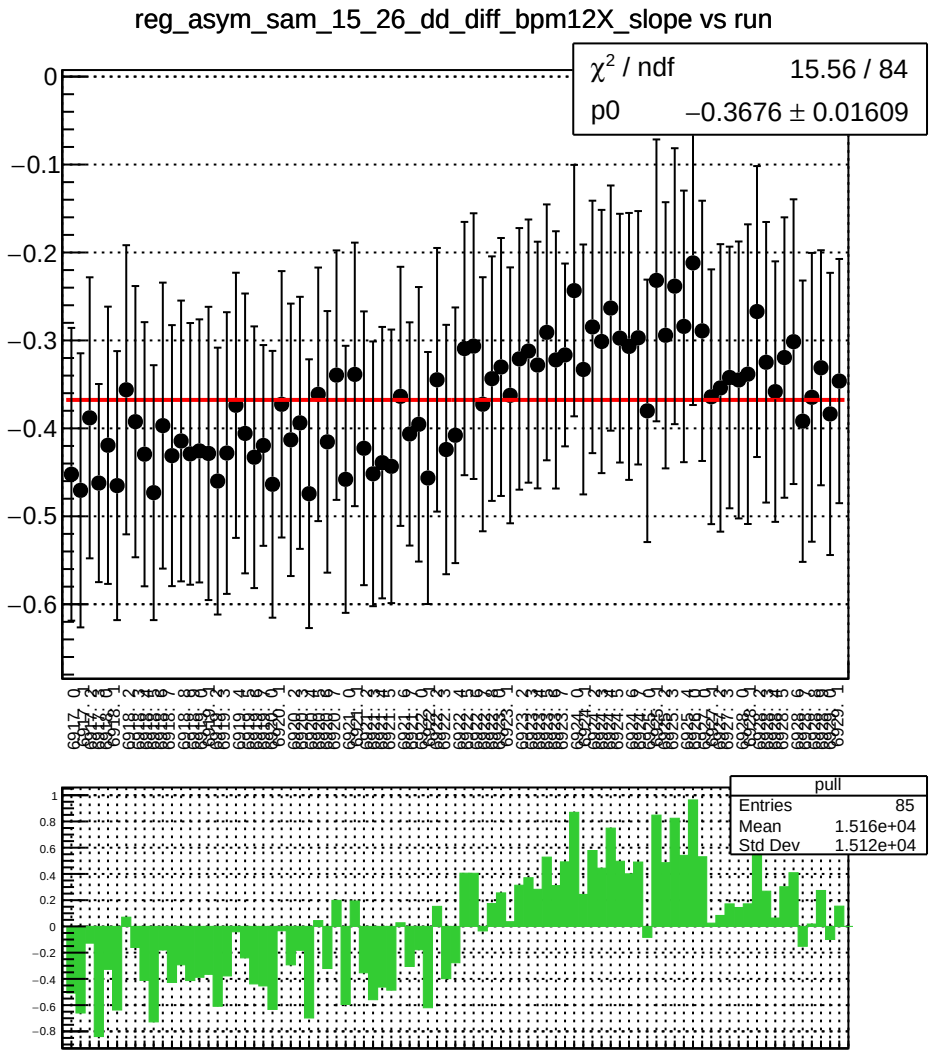

pull1D
Entries 85
Mean −0.009459
Std Dev 0.2927

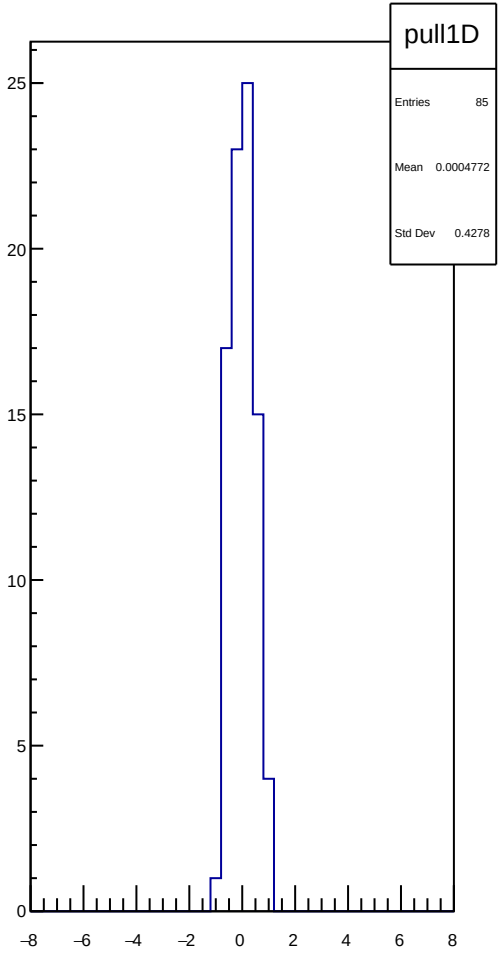

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.75 / 84
p0 −1.355 ± 0.3326
pull
Entries 85
Mean −25.74
Std Dev 62.02
pull1D
Entries 85
Mean 0.03291
Std Dev 0.3371

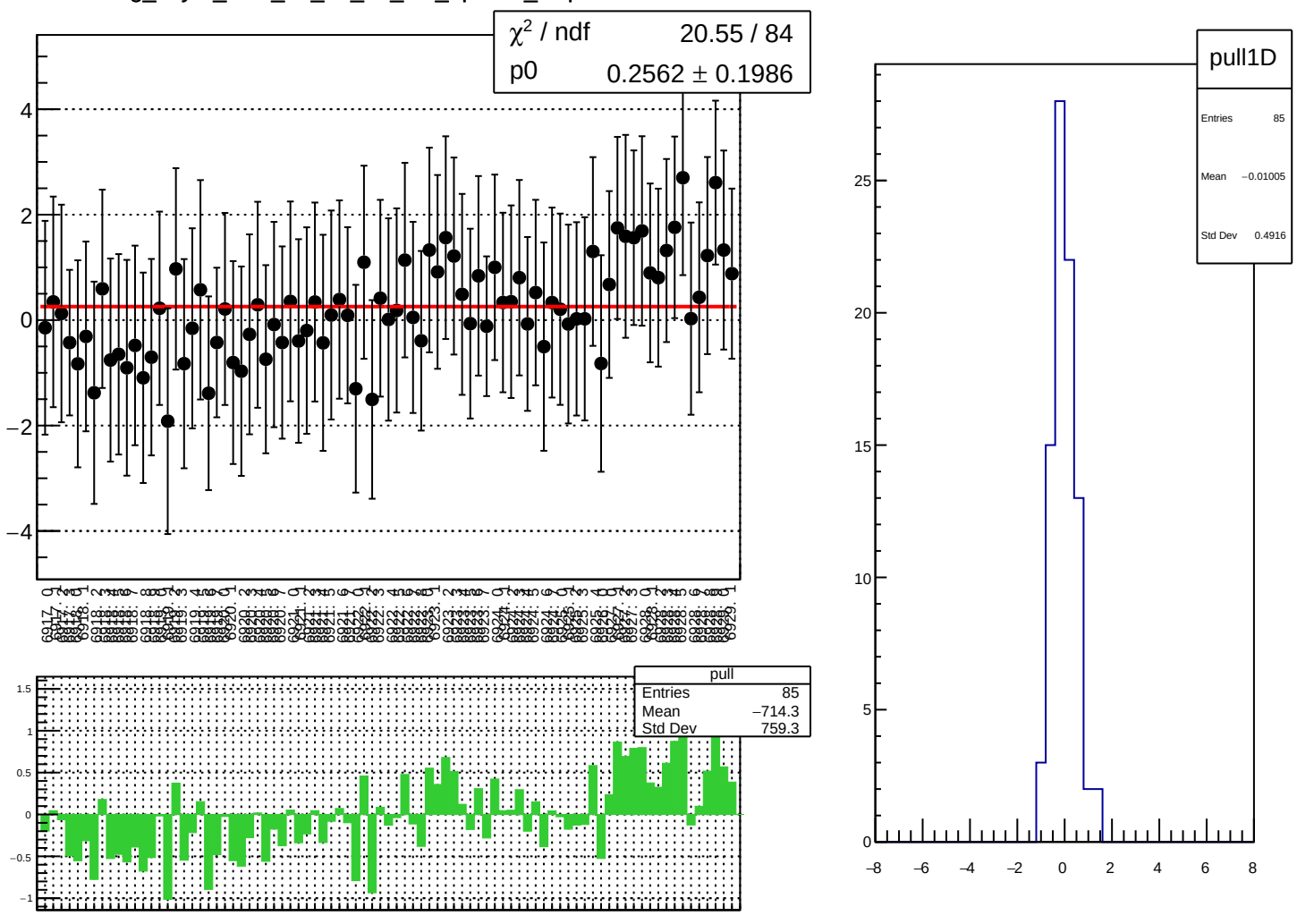

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.77 / 84
p0 27.37 ± 0.4494
pull
Entries 85
Mean −171.4
Std Dev 206.1
pull1D
Entries 85
Mean 0.01602
Std Dev 0.3556

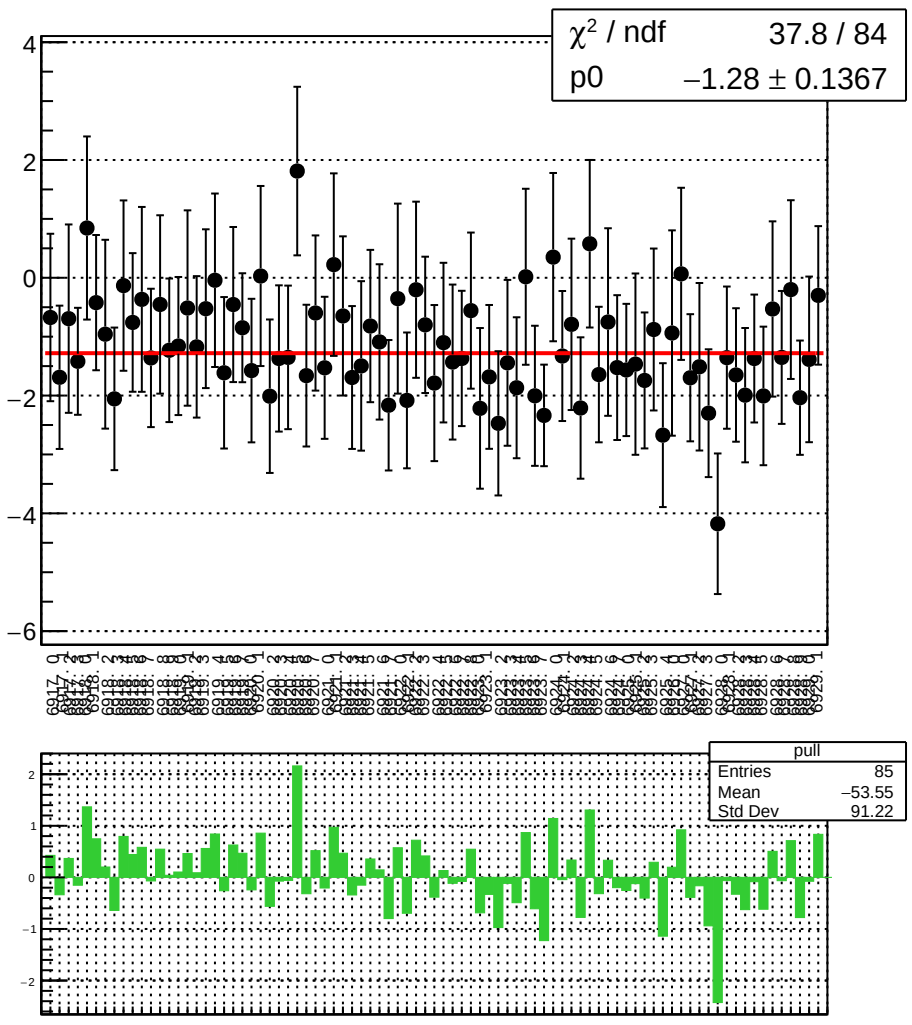

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.23 / 84
p0 43.54 ± 0.3777
pull
Entries 85
Mean −252.3
Std Dev 293.4

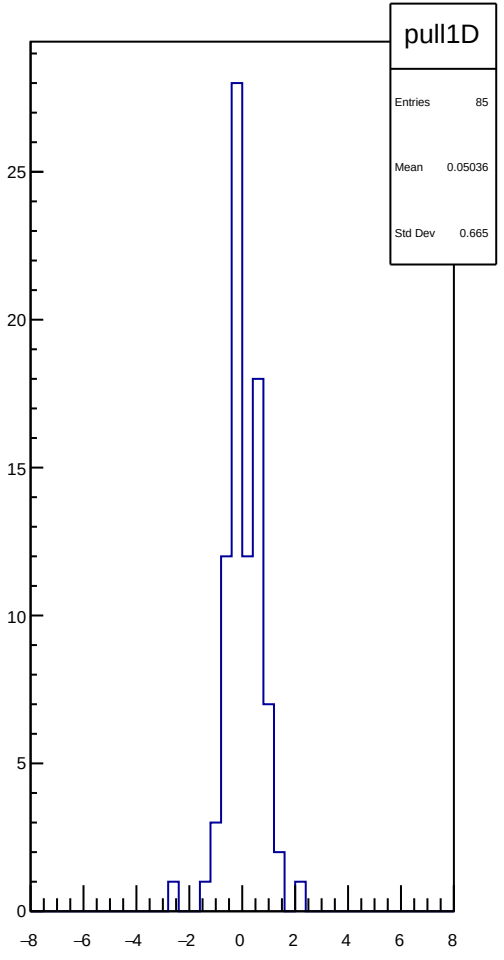

pull1D
Entries 85
Mean −0.01267
Std Dev 0.3467

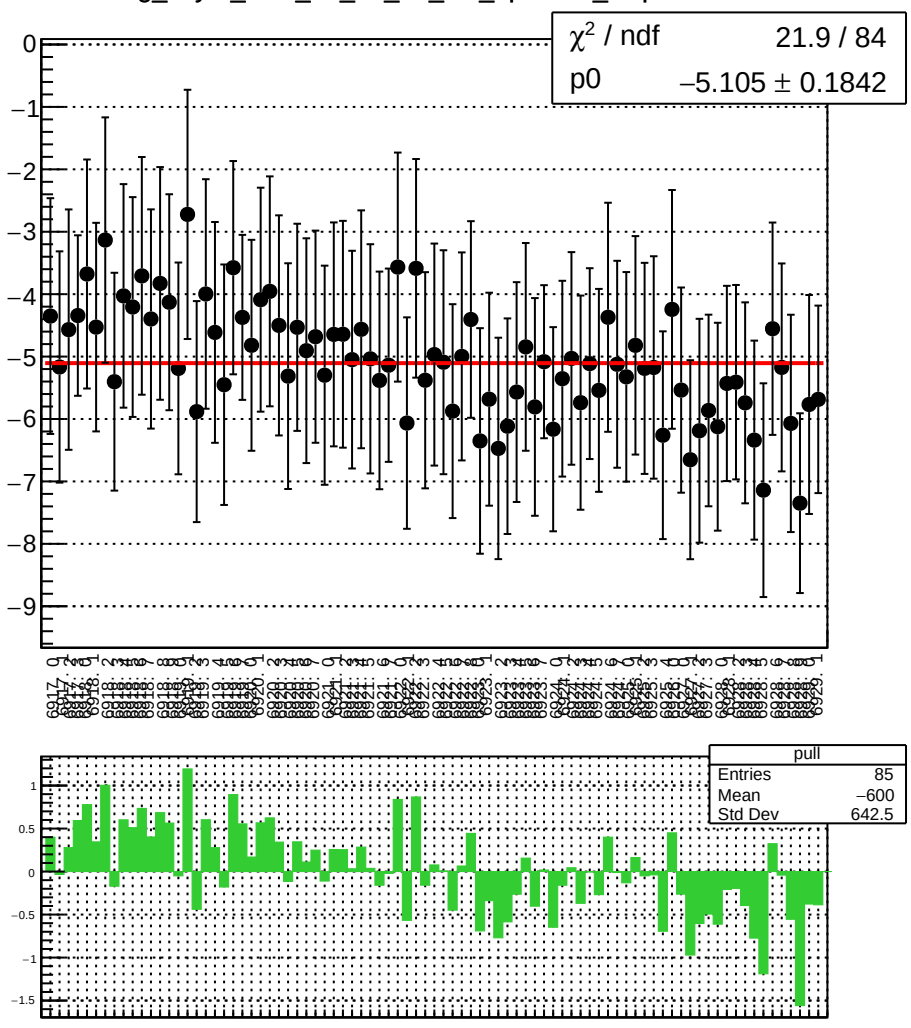

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 15.56 / 84
p0 −0.3676 ± 0.01609
pull
Entries 85
Mean 1.516e+04
Std Dev 1.512e+04

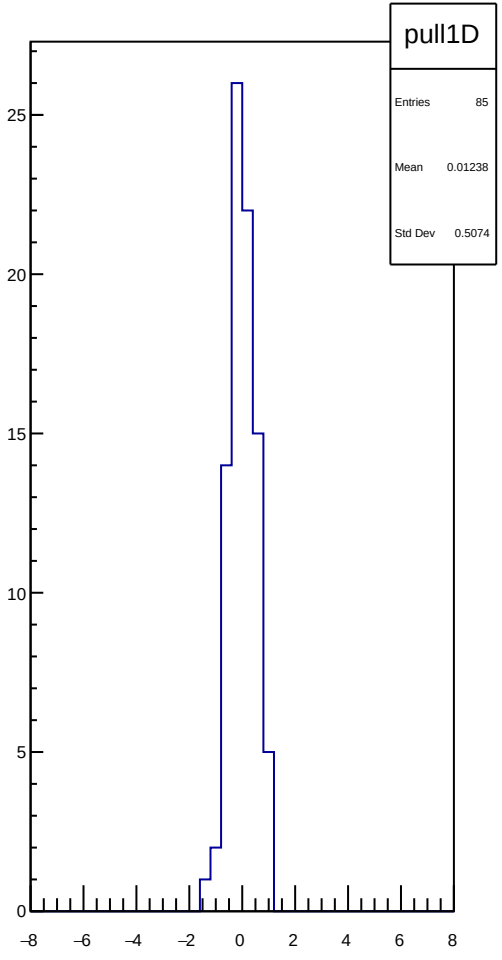

pull1D
Entries 85
Mean 0.0004772
Std Dev 0.4278

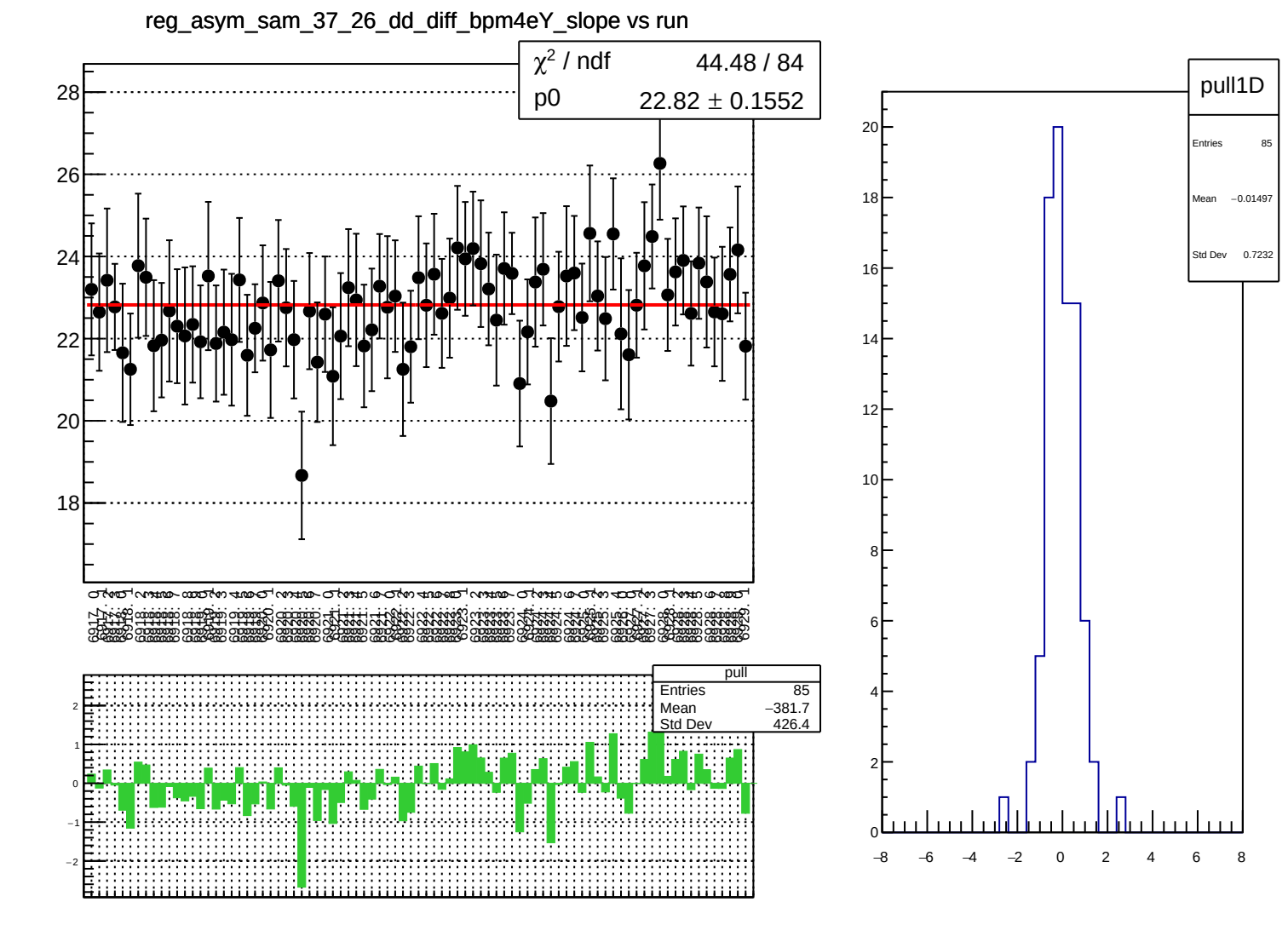

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 20.55 / 84
p0 0.2562 ± 0.1986
pull
Entries 85
Mean −714.3
Std Dev 759.3
pull1D
Entries 85
Mean −0.01005
Std Dev 0.4916

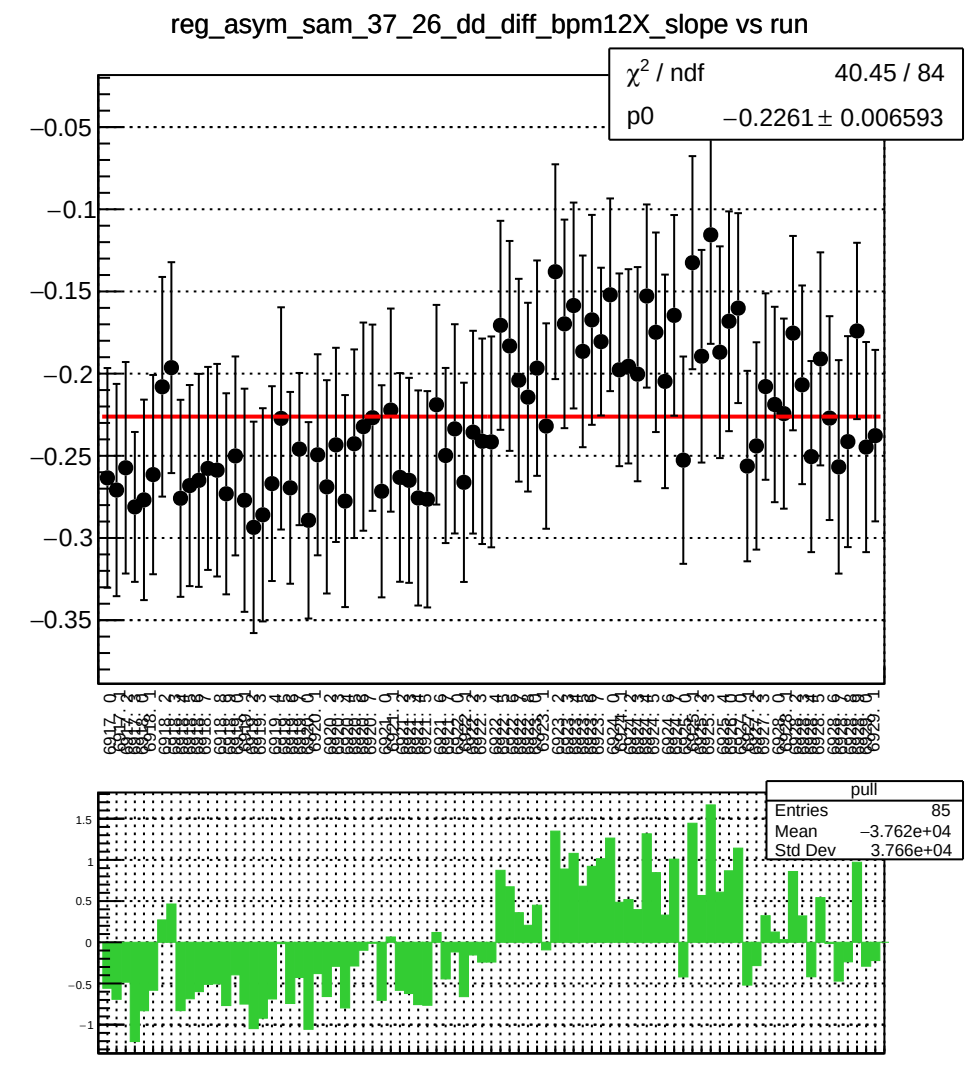

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.8 / 84
p0 −1.28 ± 0.1367
pull
Entries 85
Mean −53.55
Std Dev 91.22

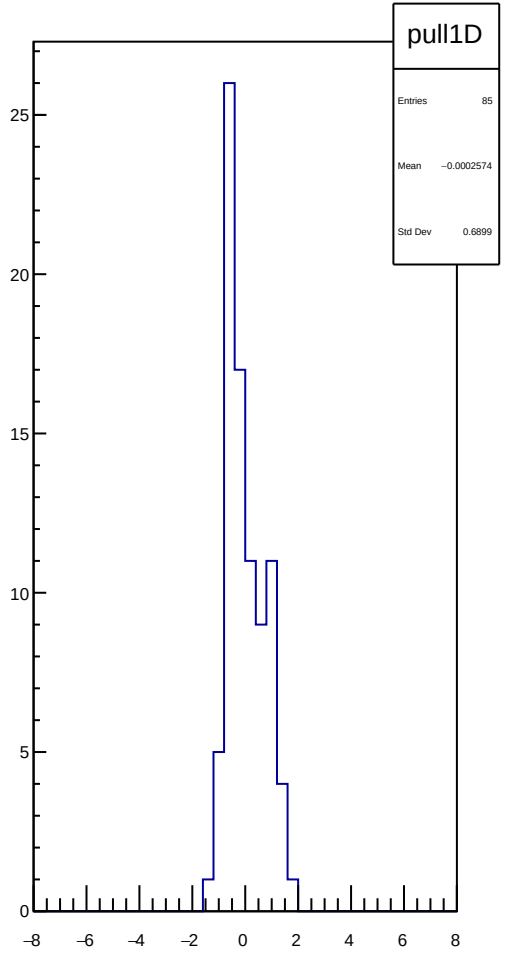

pull1D
Entries 85
Mean 0.05036
Std Dev 0.665

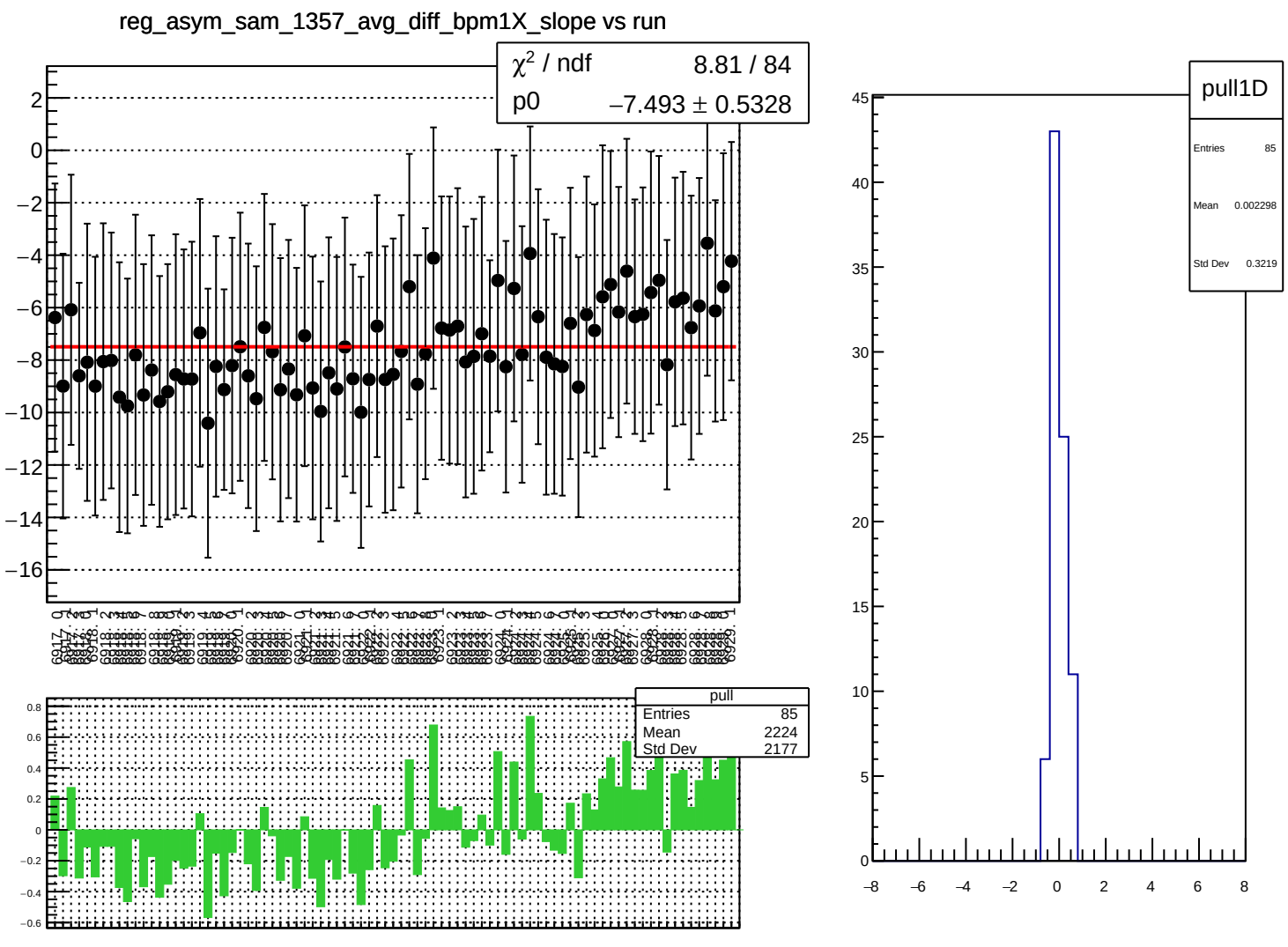

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.9 / 84
p0 −5.105 ± 0.1842
pull
Entries 85
Mean −600
Std Dev 642.5

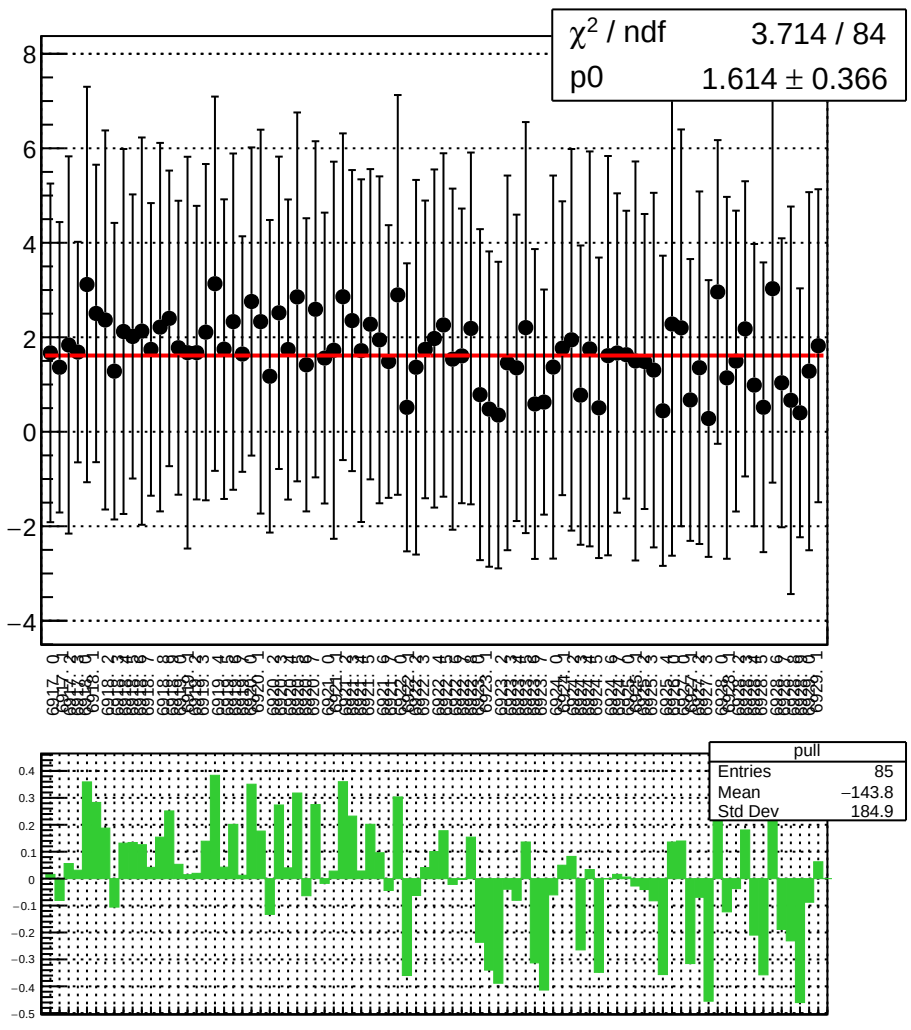

pull1D
Entries 85
Mean 0.01238
Std Dev 0.5074

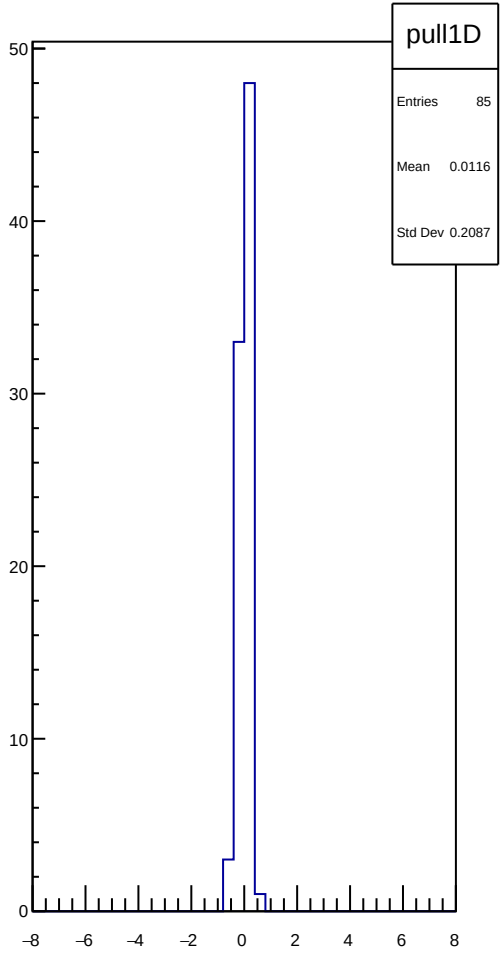

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.48 / 84
p0 22.82 ± 0.1552
pull
Entries 85
Mean −381.7
Std Dev 426.4
pull1D
Entries 85
Mean −0.01497
Std Dev 0.7232

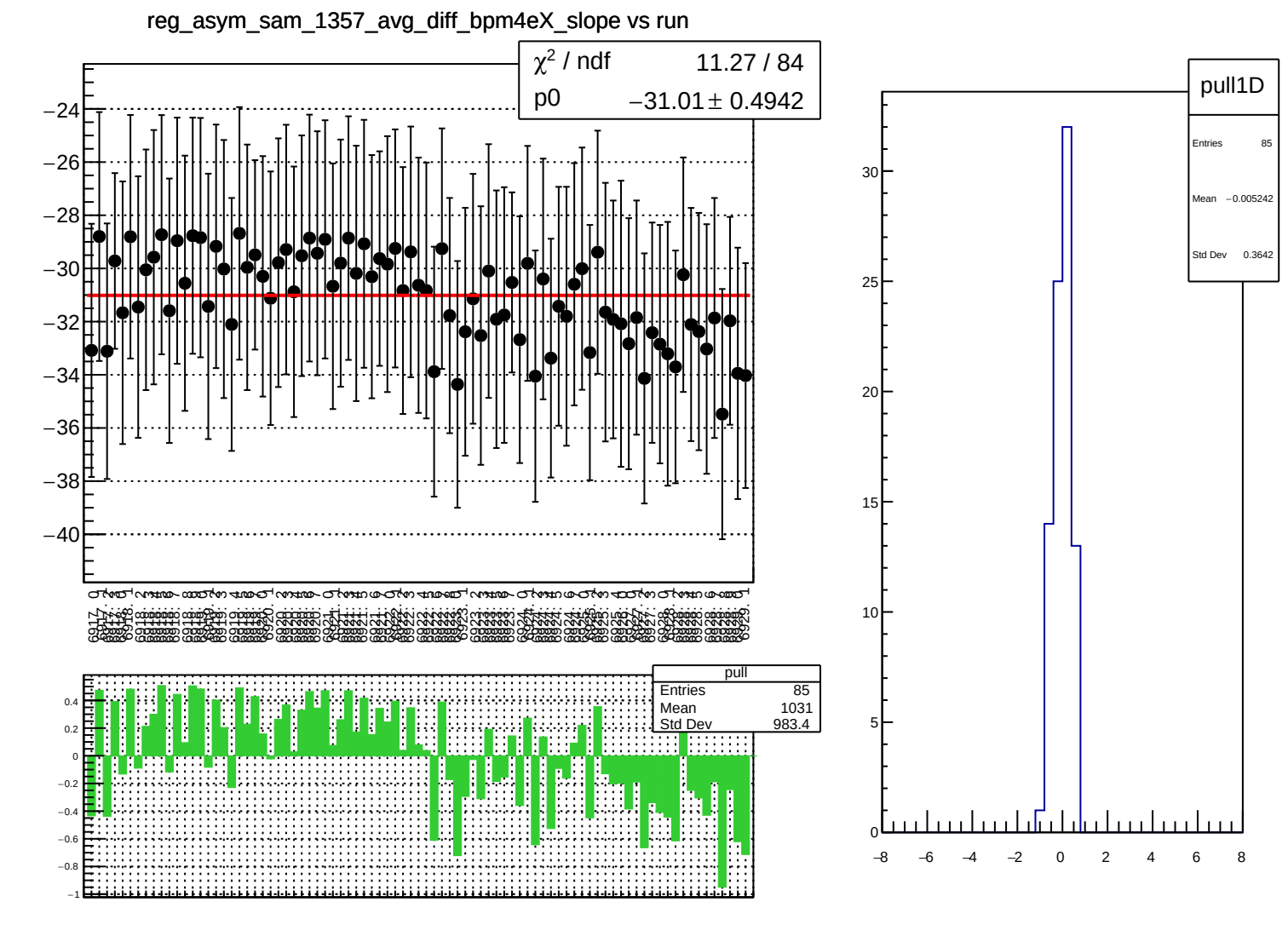

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 40.45 / 84
p0 −0.2261 ± 0.006593
pull
Entries 85
Mean −3.762e+04
Std Dev 3.766e+04

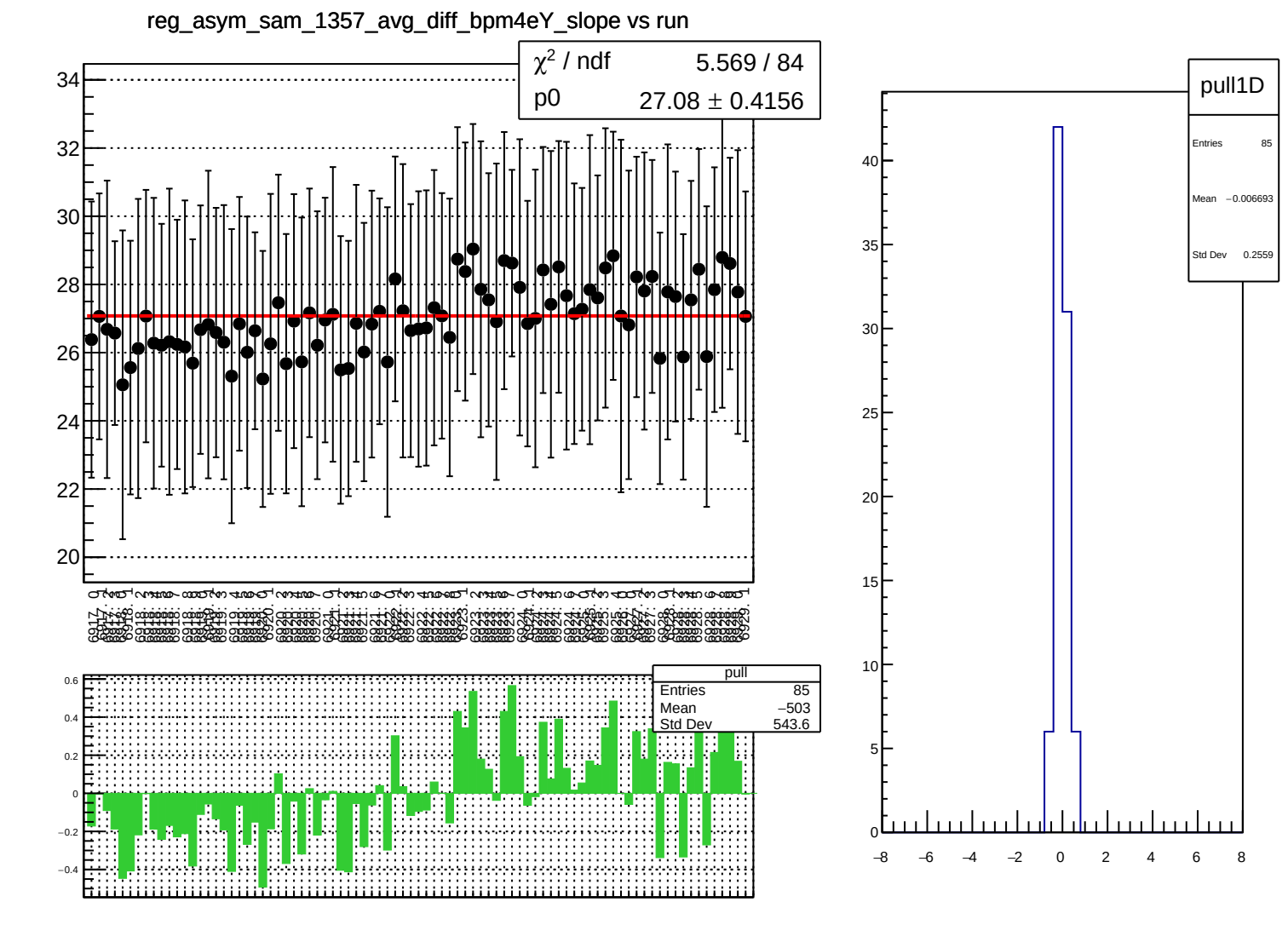

pull1D
Entries 85
Mean −0.0002574
Std Dev 0.6899

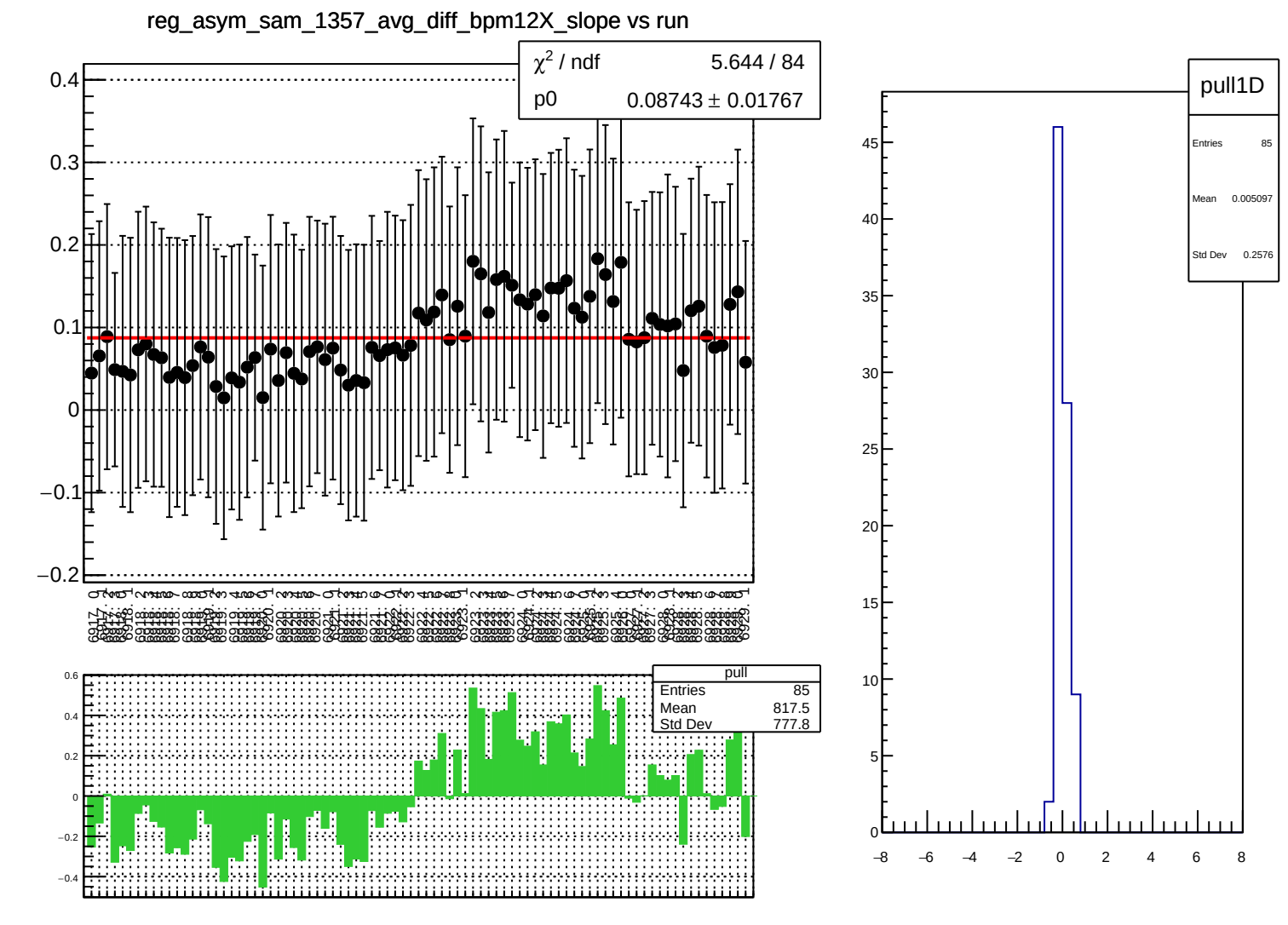

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 8.81 / 84
p0 −7.493 ± 0.5328
pull
Entries 85
Mean 2224
Std Dev 2177
pull1D
Entries 85
Mean 0.002298
Std Dev 0.3219

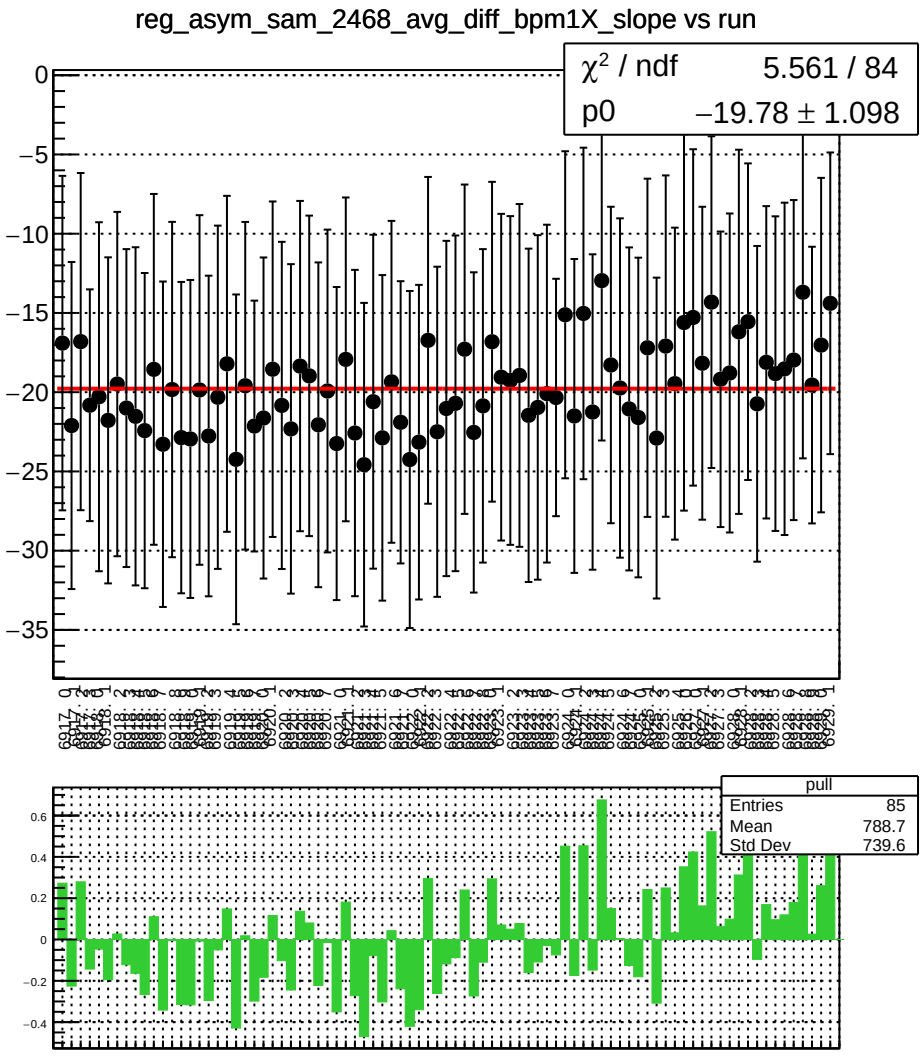

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.714 / 84
p0 1.614 ± 0.366
pull
Entries 85
Mean −143.8
Std Dev 184.9

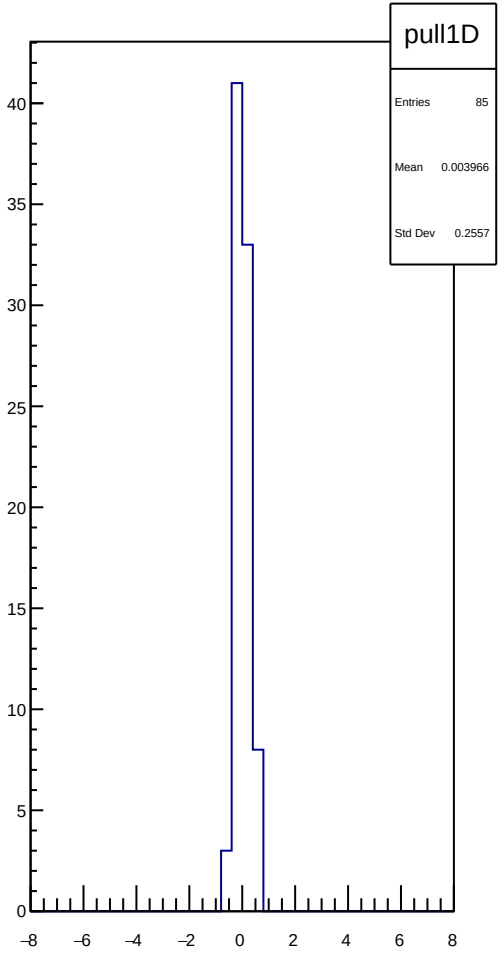

pull1D
Entries 85
Mean 0.0116
Std Dev 0.2087

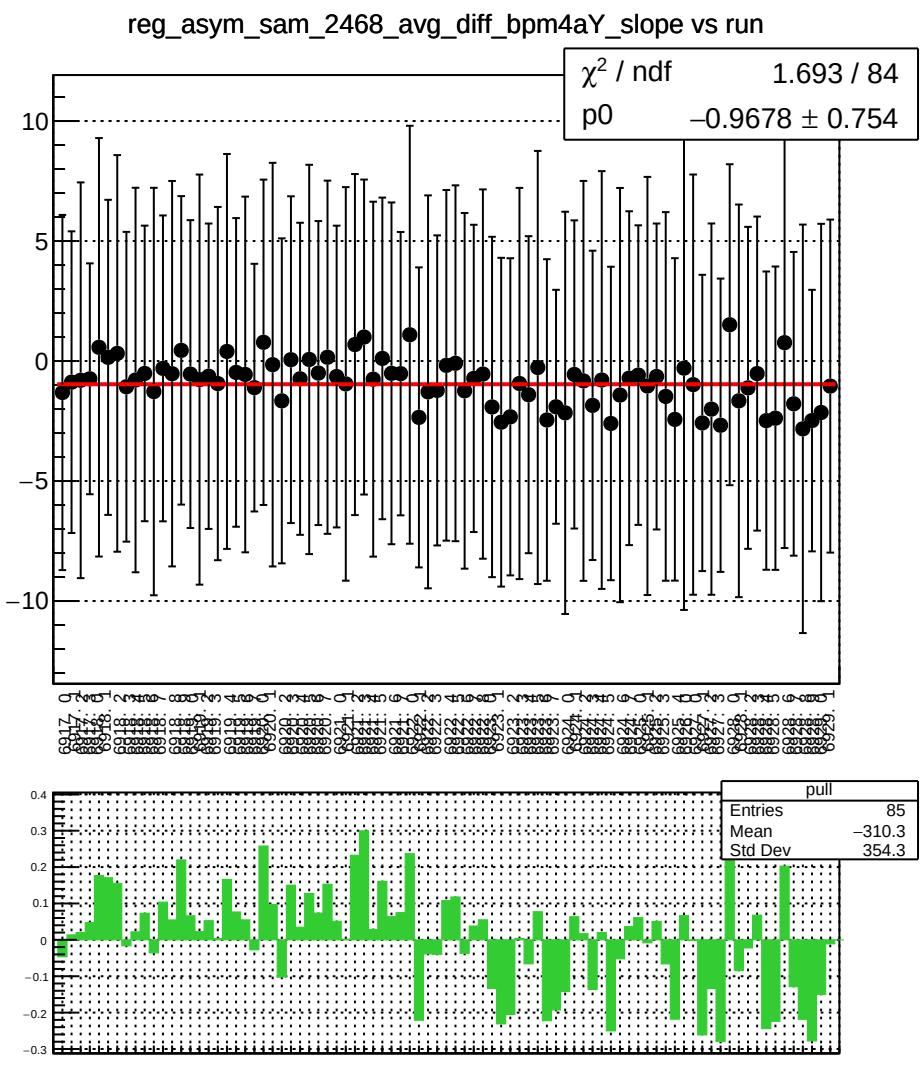

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.27 / 84
p0 −31.01 ± 0.4942
pull
Entries 85
Mean 1031
Std Dev 983.4
pull1D
Entries 85
Mean −0.005242
Std Dev 0.3642

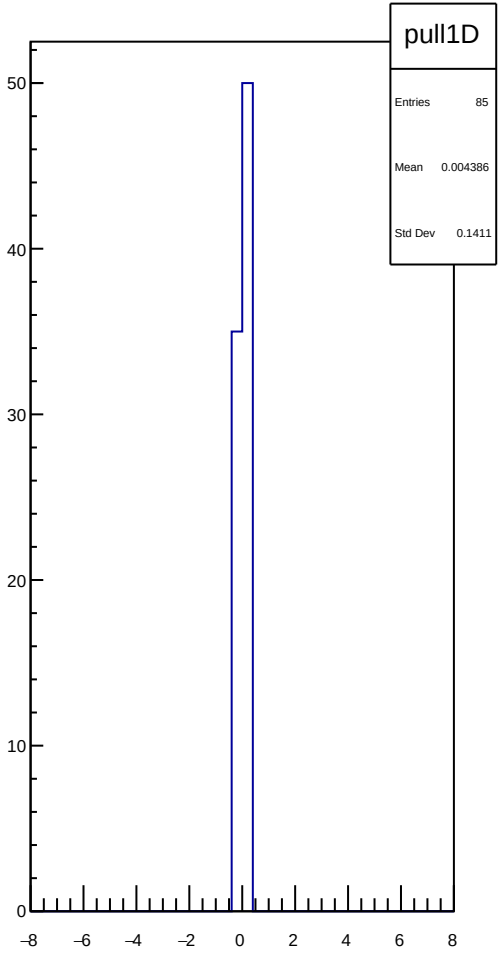

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.569 / 84
p0 27.08 ± 0.4156
pull
Entries 85
Mean −503
Std Dev 543.6
pull1D
Entries 85
Mean −0.006693
Std Dev 0.2559

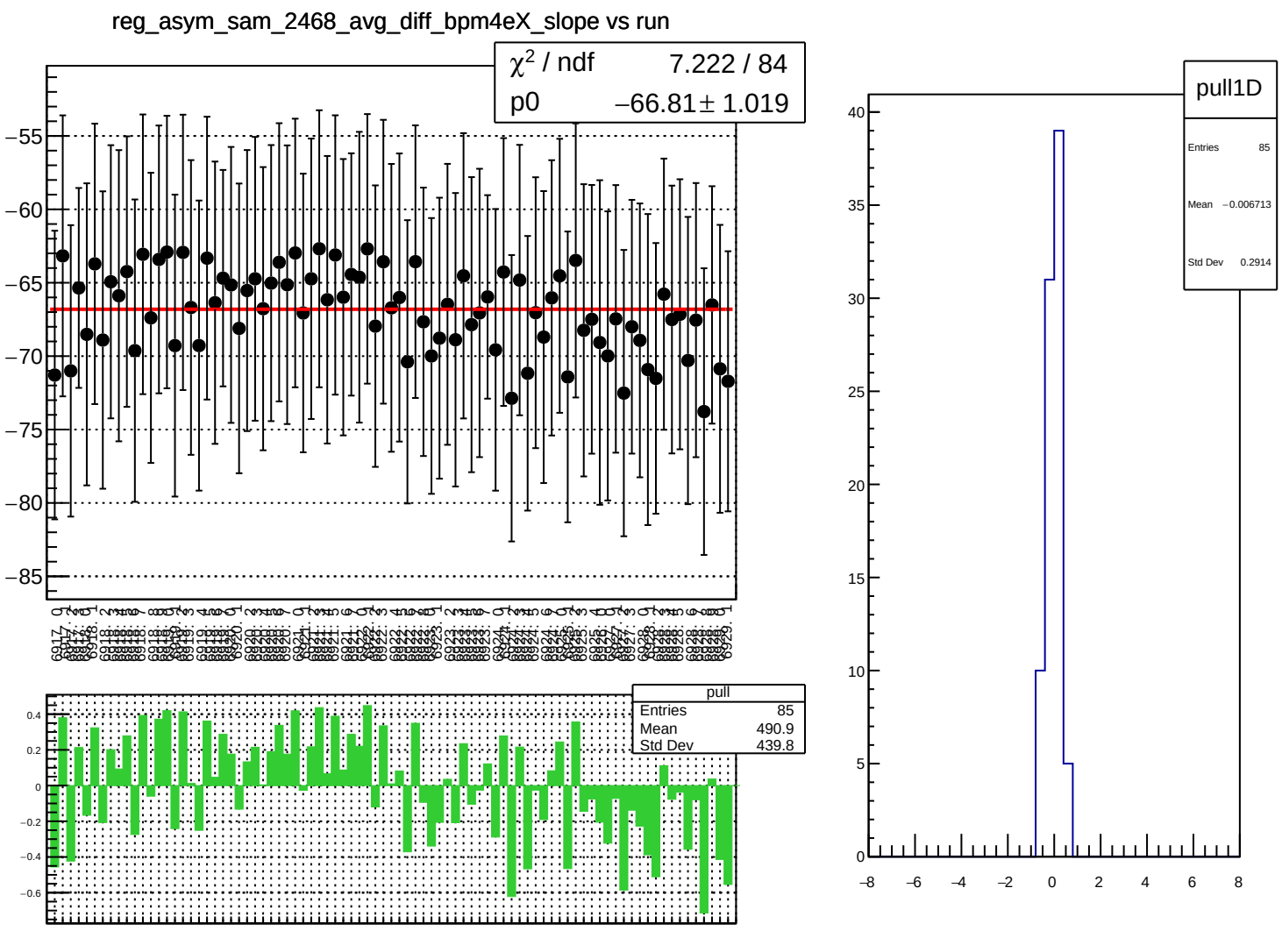

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 5.644 / 84
p0 0.08743 ± 0.01767
pull
Entries 85
Mean 817.5
Std Dev 777.8
pull1D
Entries 85
Mean 0.005097
Std Dev 0.2576

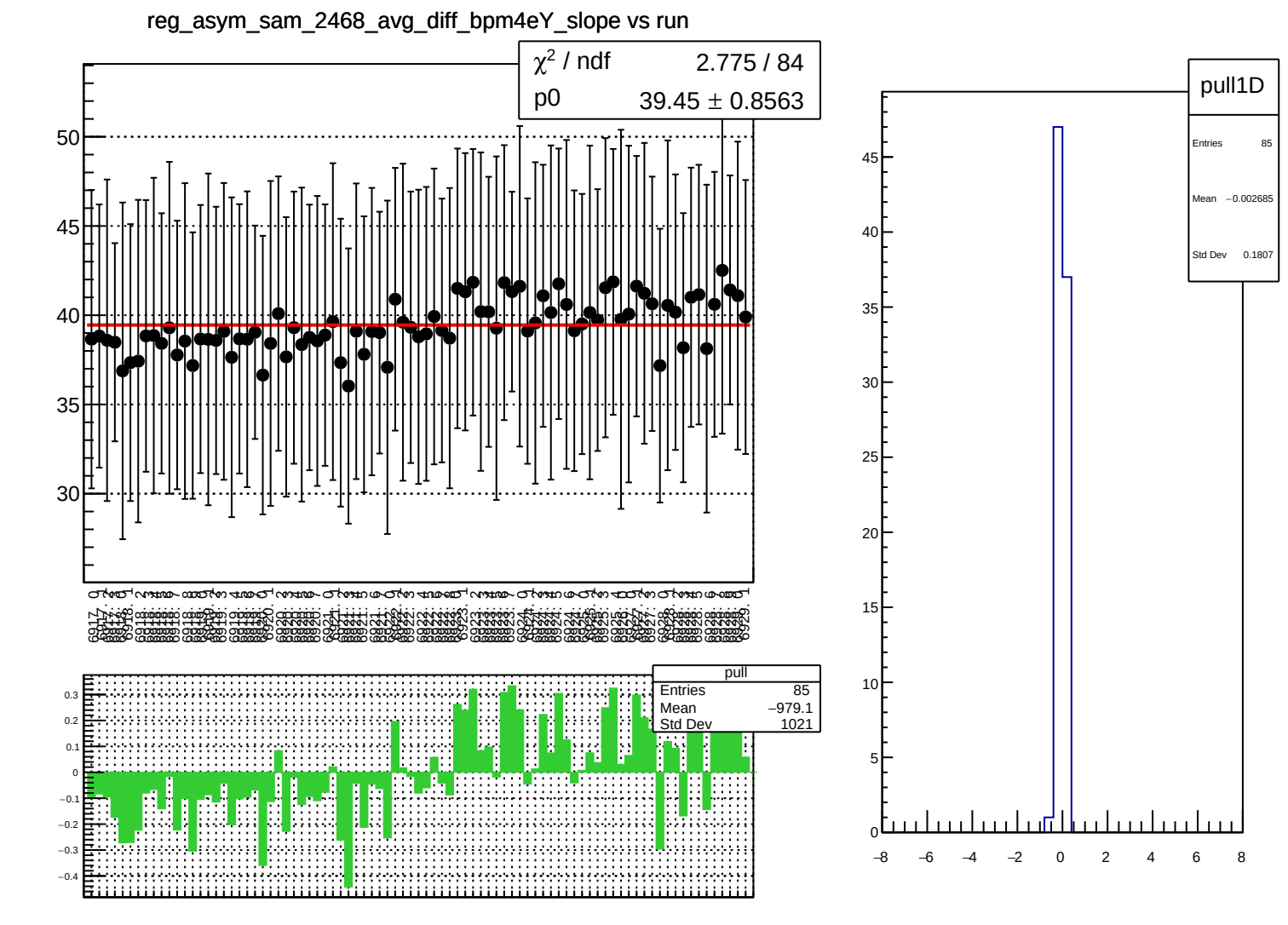

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 5.561 / 84
p0 −19.78 ± 1.098
pull
Entries 85
Mean 788.7
Std Dev 739.6

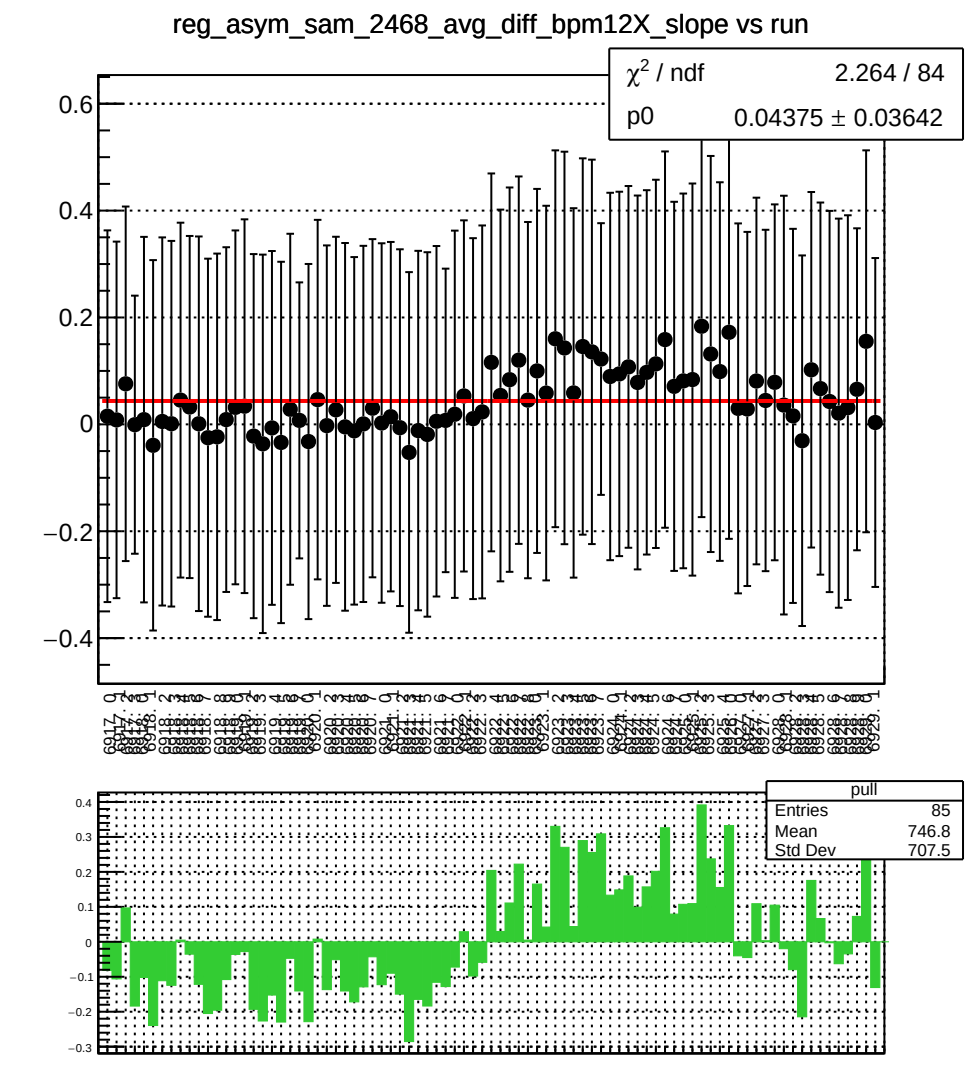

pull1D
Entries 85
Mean 0.003966
Std Dev 0.2557

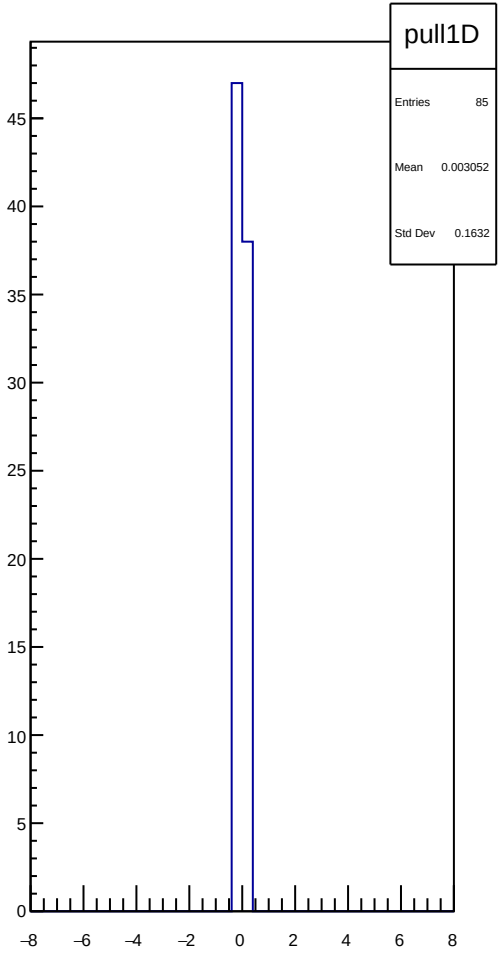

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.693 / 84
p0 −0.9678 ± 0.754
pull
Entries 85
Mean −310.3
Std Dev 354.3

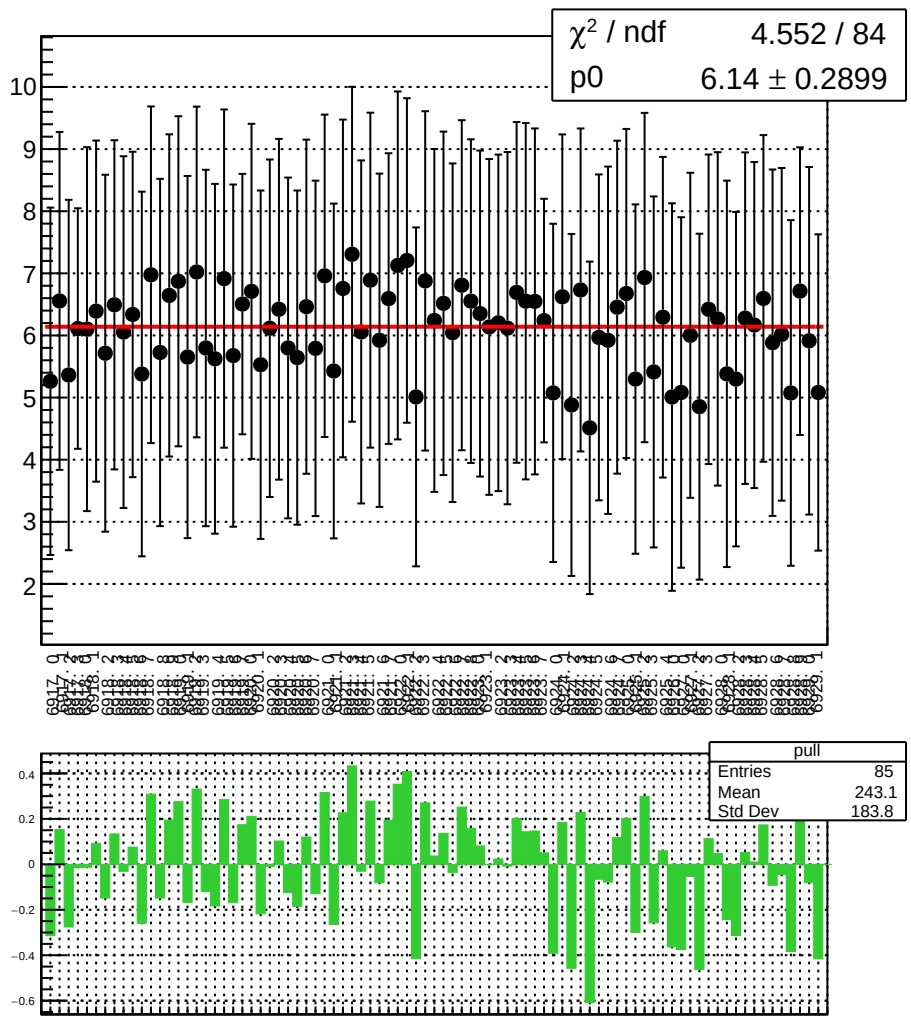

pull1D
Entries 85
Mean 0.004386
Std Dev 0.1411

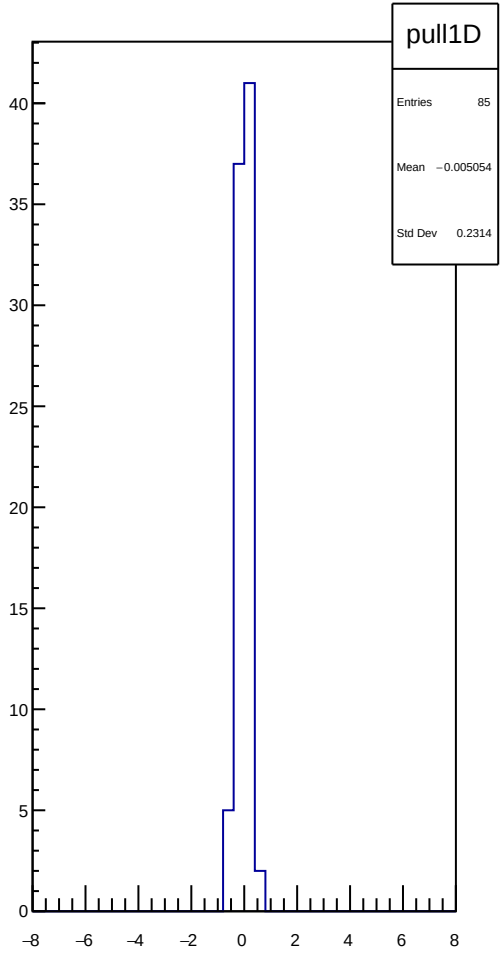

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.222 / 84
p0 −66.81 ± 1.019
pull
Entries 85
Mean 490.9
Std Dev 439.8
pull1D
Entries 85
Mean −0.006713
Std Dev 0.2914

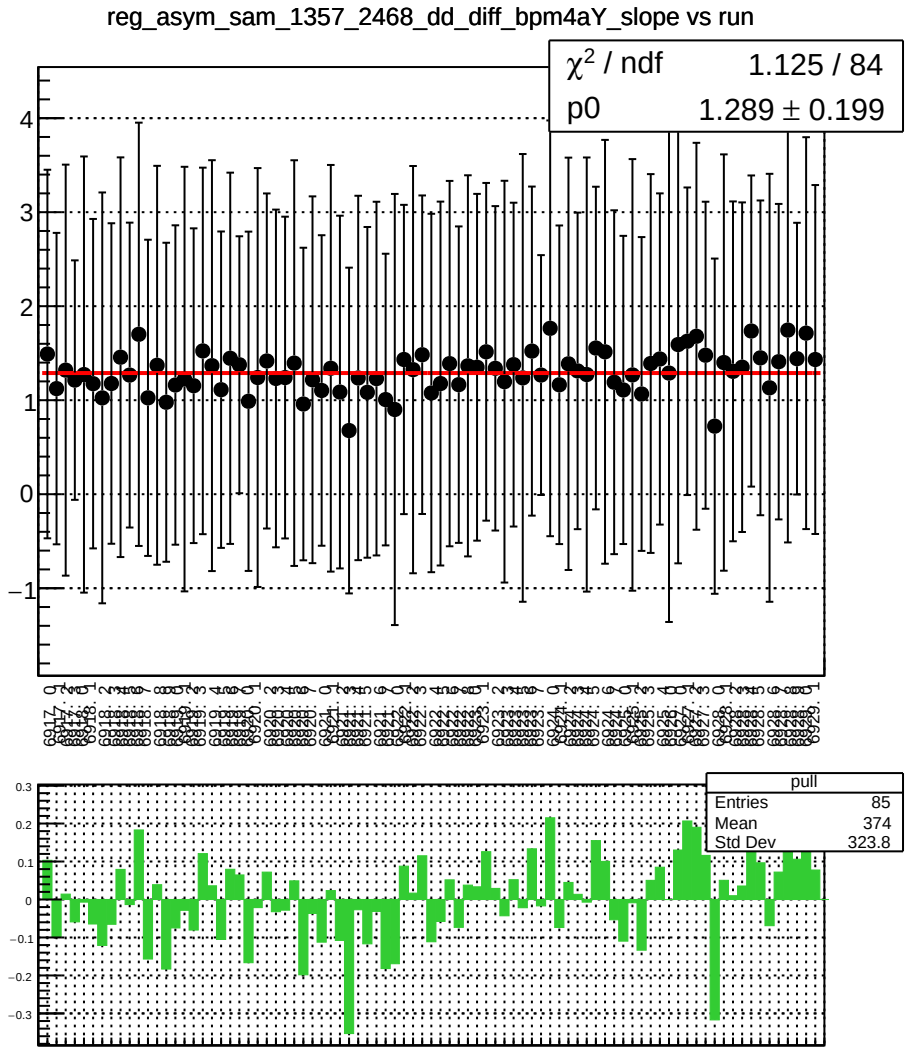

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.775 / 84
p0 39.45 ± 0.8563
pull
Entries 85
Mean −979.1
Std Dev 1021
pull1D
Entries 85
Mean −0.002685
Std Dev 0.1807

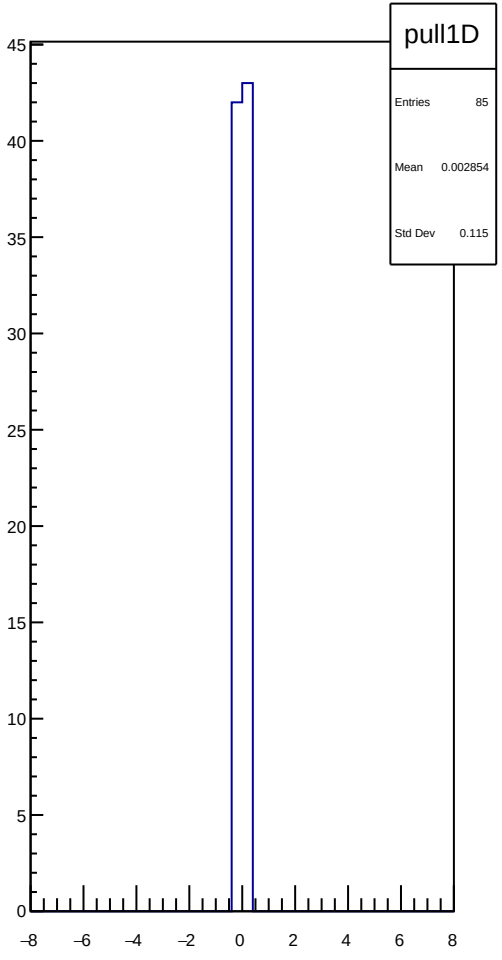

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.264 / 84
p0 0.04375 ± 0.03642
pull
Entries 85
Mean 746.8
Std Dev 707.5

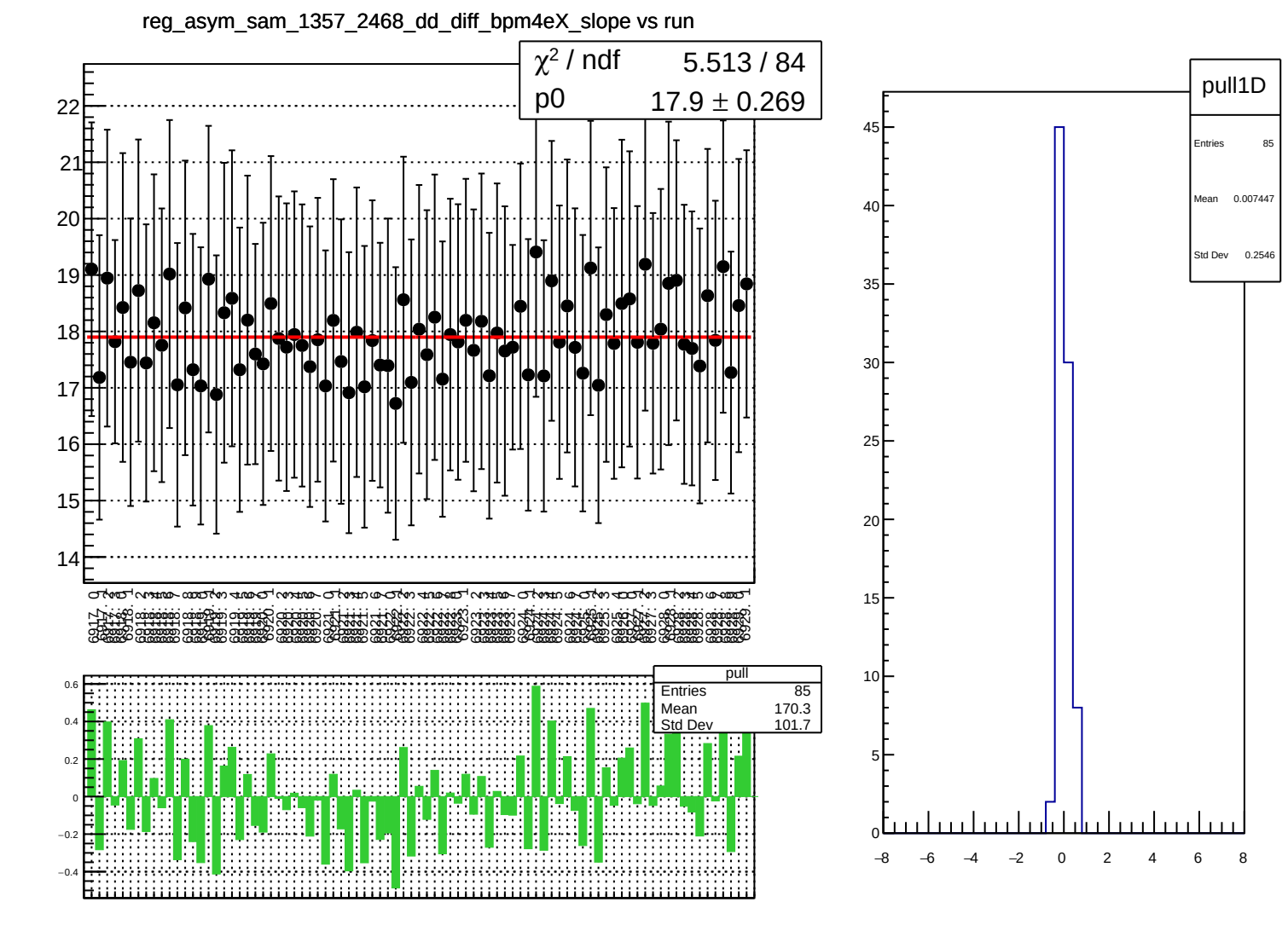

pull1D
Entries 85
Mean 0.003052
Std Dev 0.1632

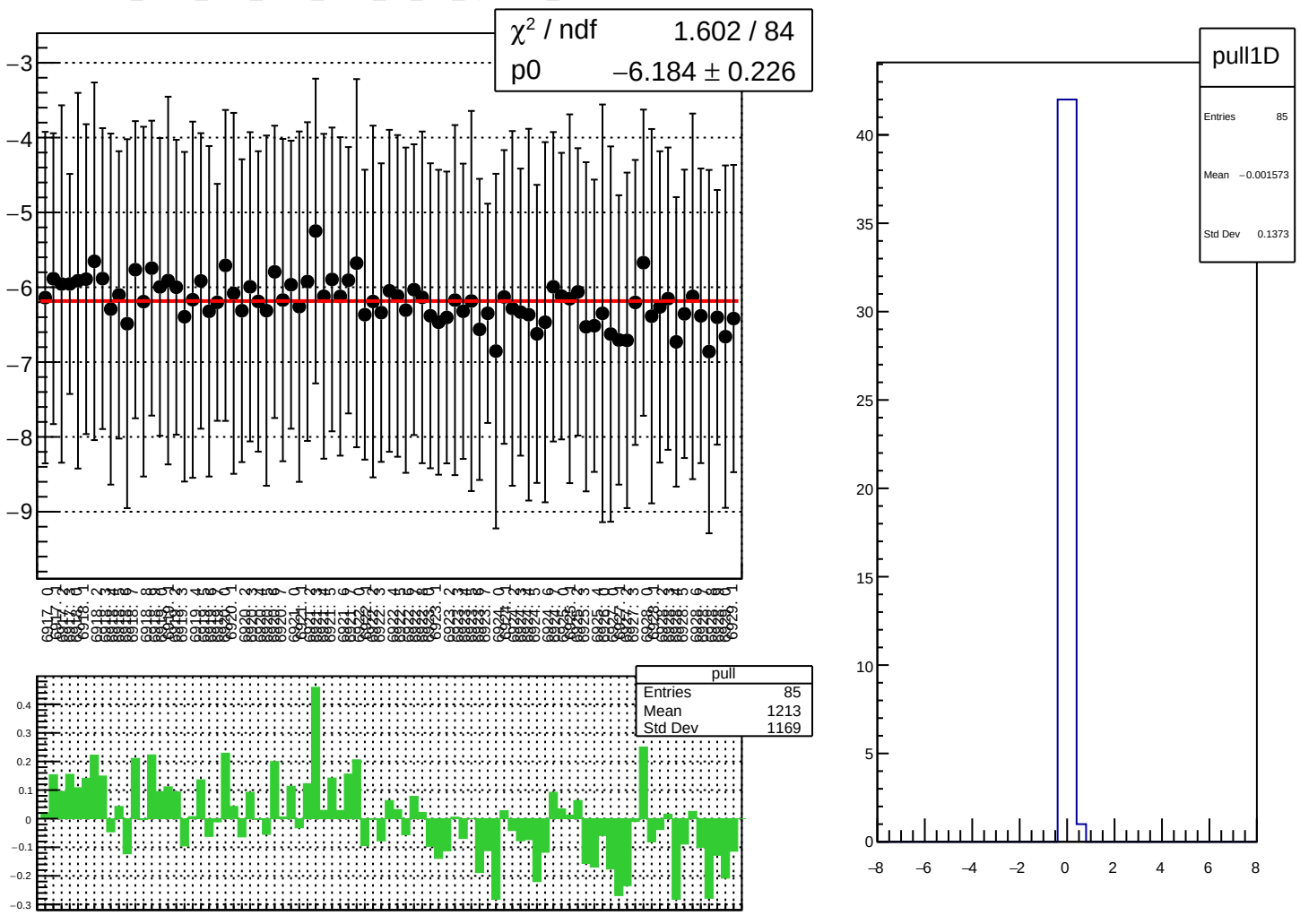

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 4.552 / 84
p0 6.14 ± 0.2899
pull
Entries 85
Mean 243.1
Std Dev 183.8

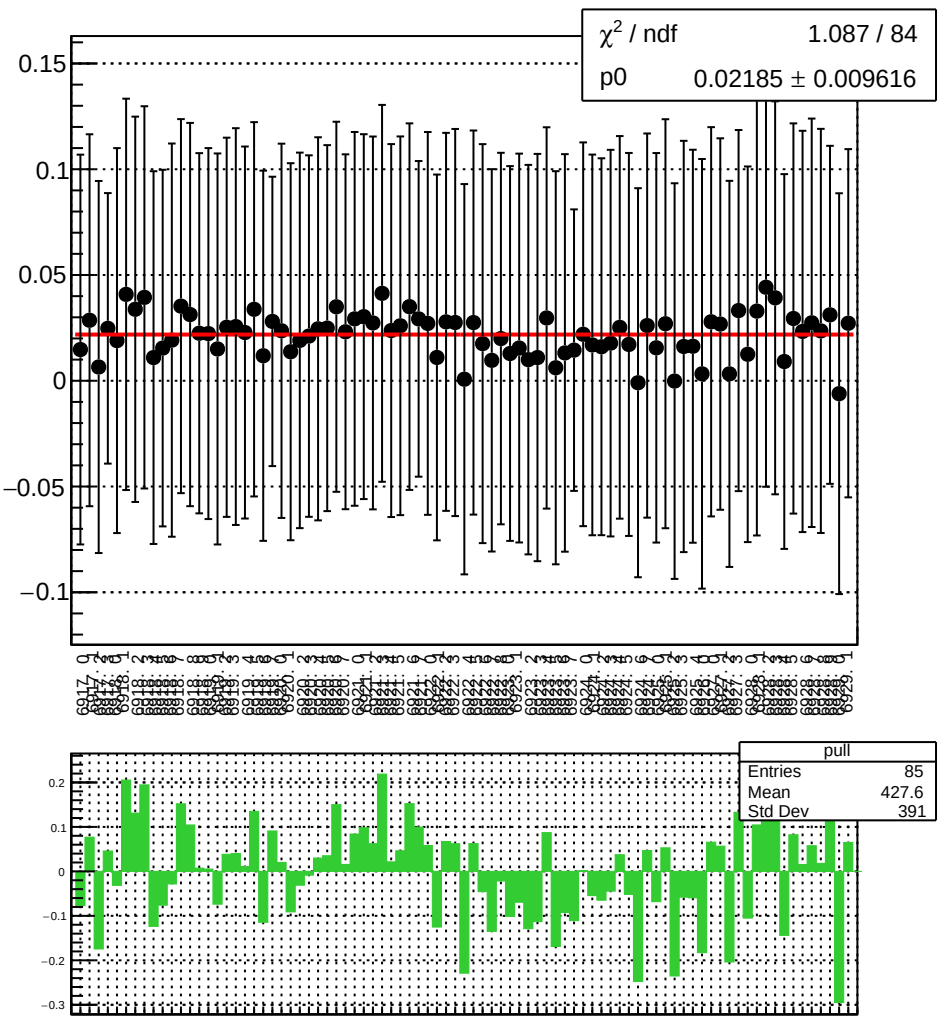

pull1D
Entries 85
Mean −0.005054
Std Dev 0.2314

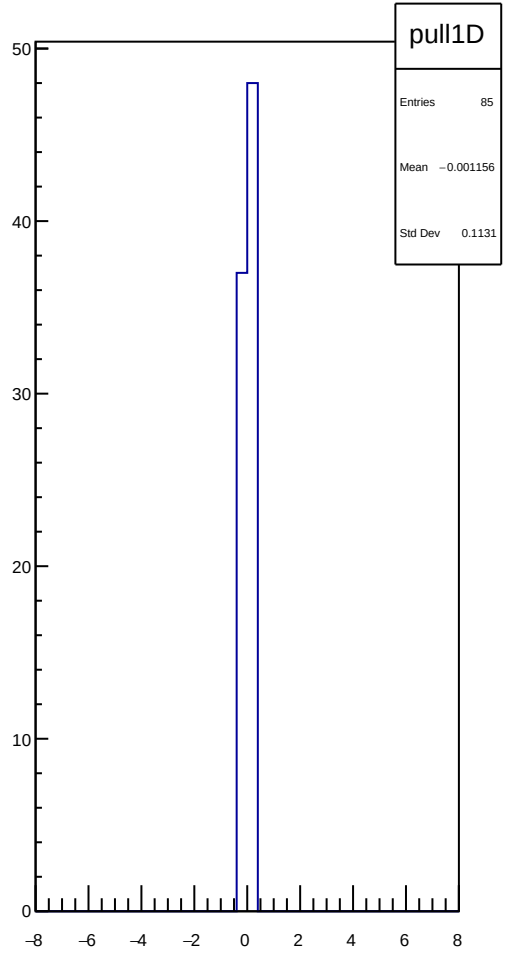

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.125 / 84
p0 1.289 ± 0.199
pull
Entries 85
Mean 374
Std Dev 323.8

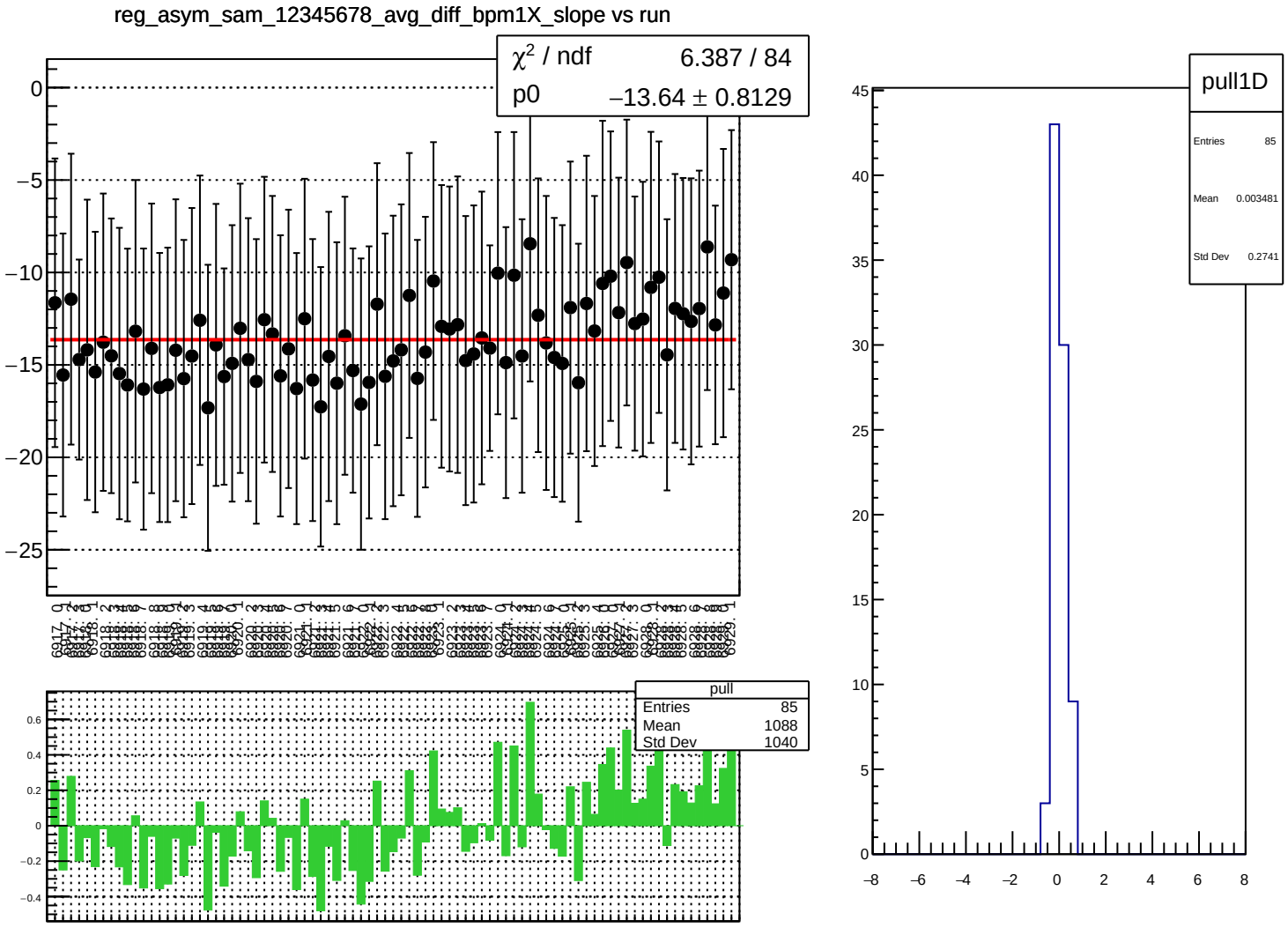

pull1D
Entries 85
Mean 0.002854
Std Dev 0.115

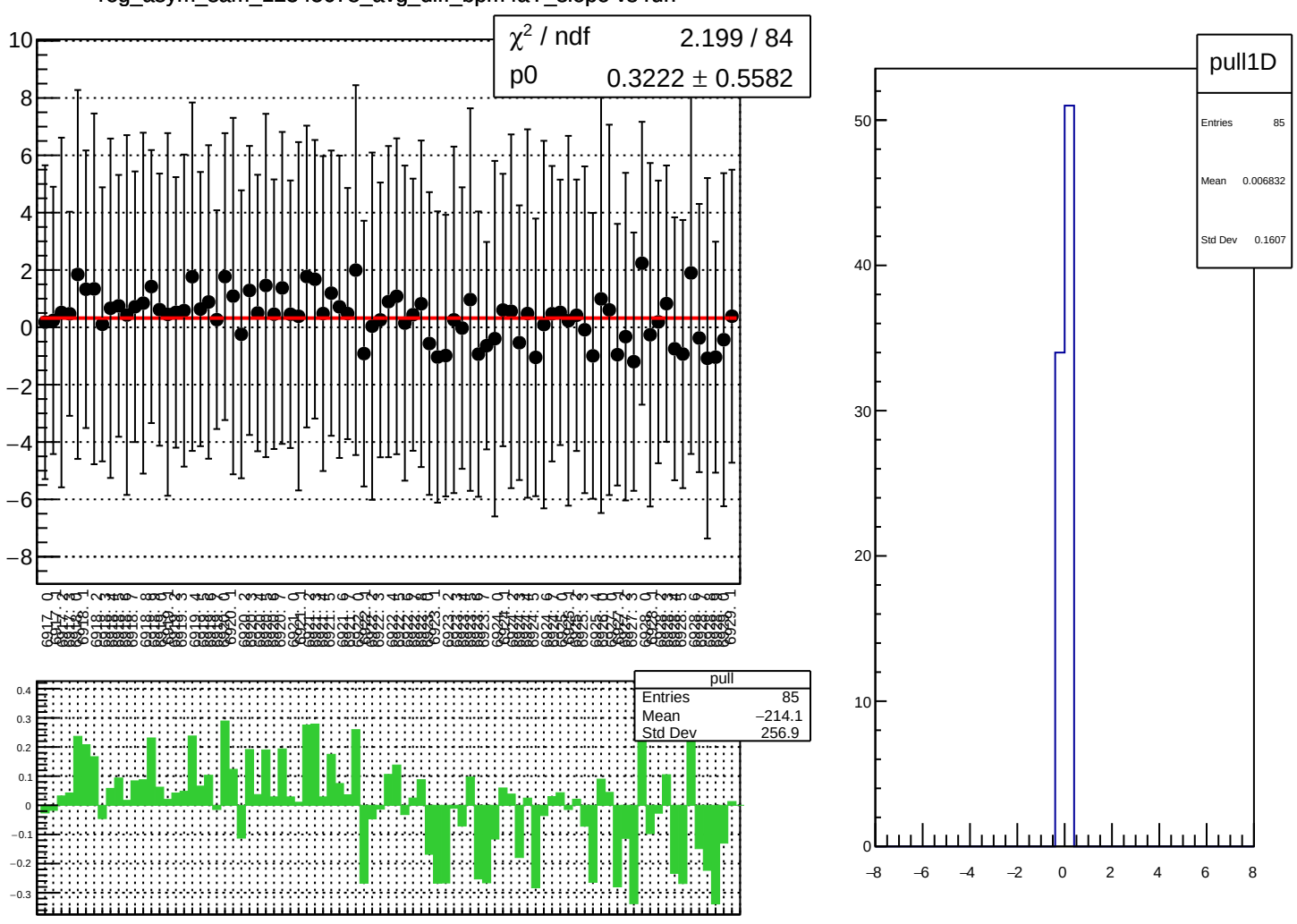

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.513 / 84
p0 17.9 ± 0.269
pull
Entries 85
Mean 170.3
Std Dev 101.7
pull1D
Entries 85
Mean 0.007447
Std Dev 0.2546

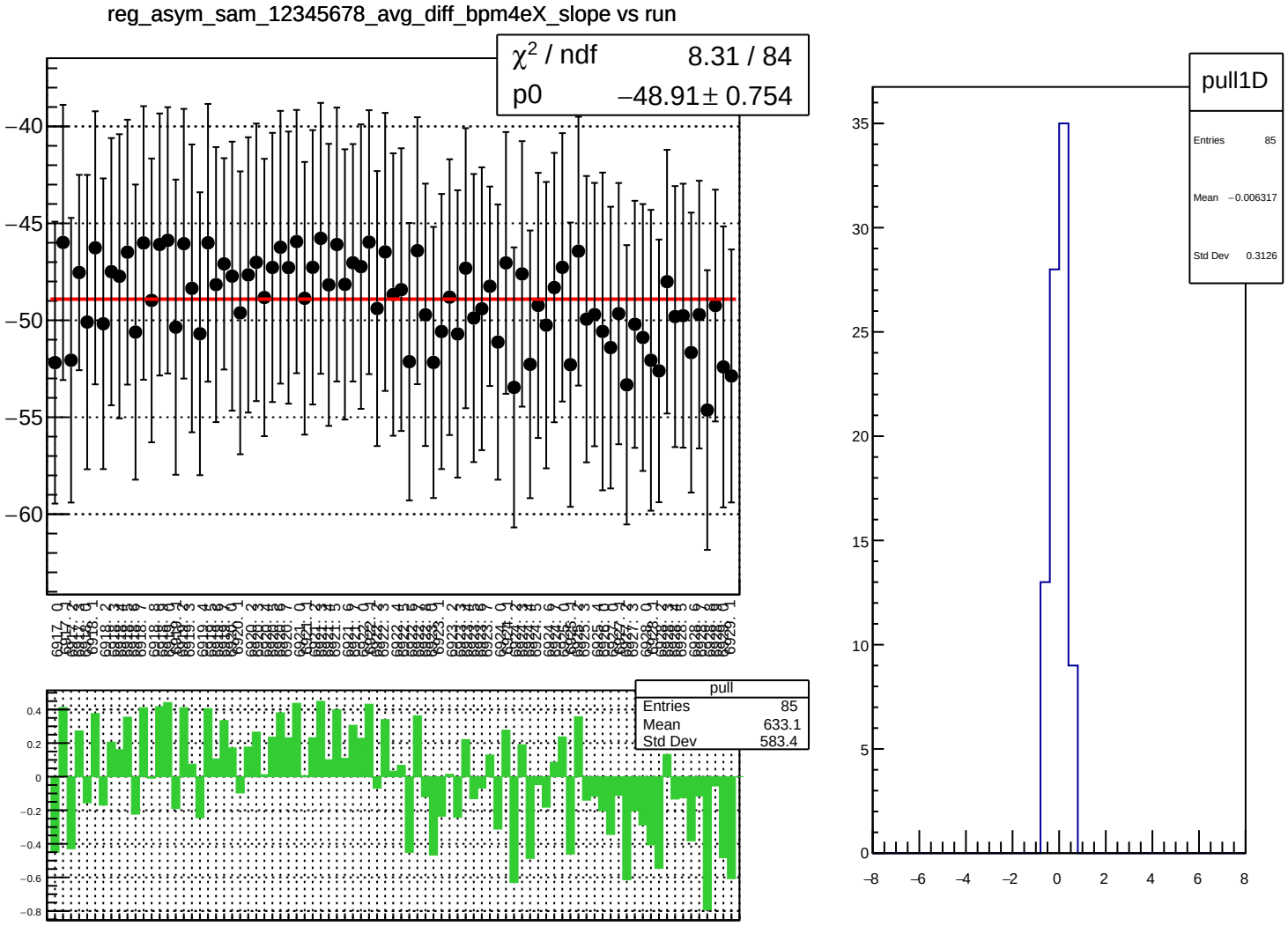

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.602 / 84
p0 −6.184 ± 0.226
pull
Entries 85
Mean 1213
Std Dev 1169
pull1D
Entries 85
Mean −0.001573
Std Dev 0.1373

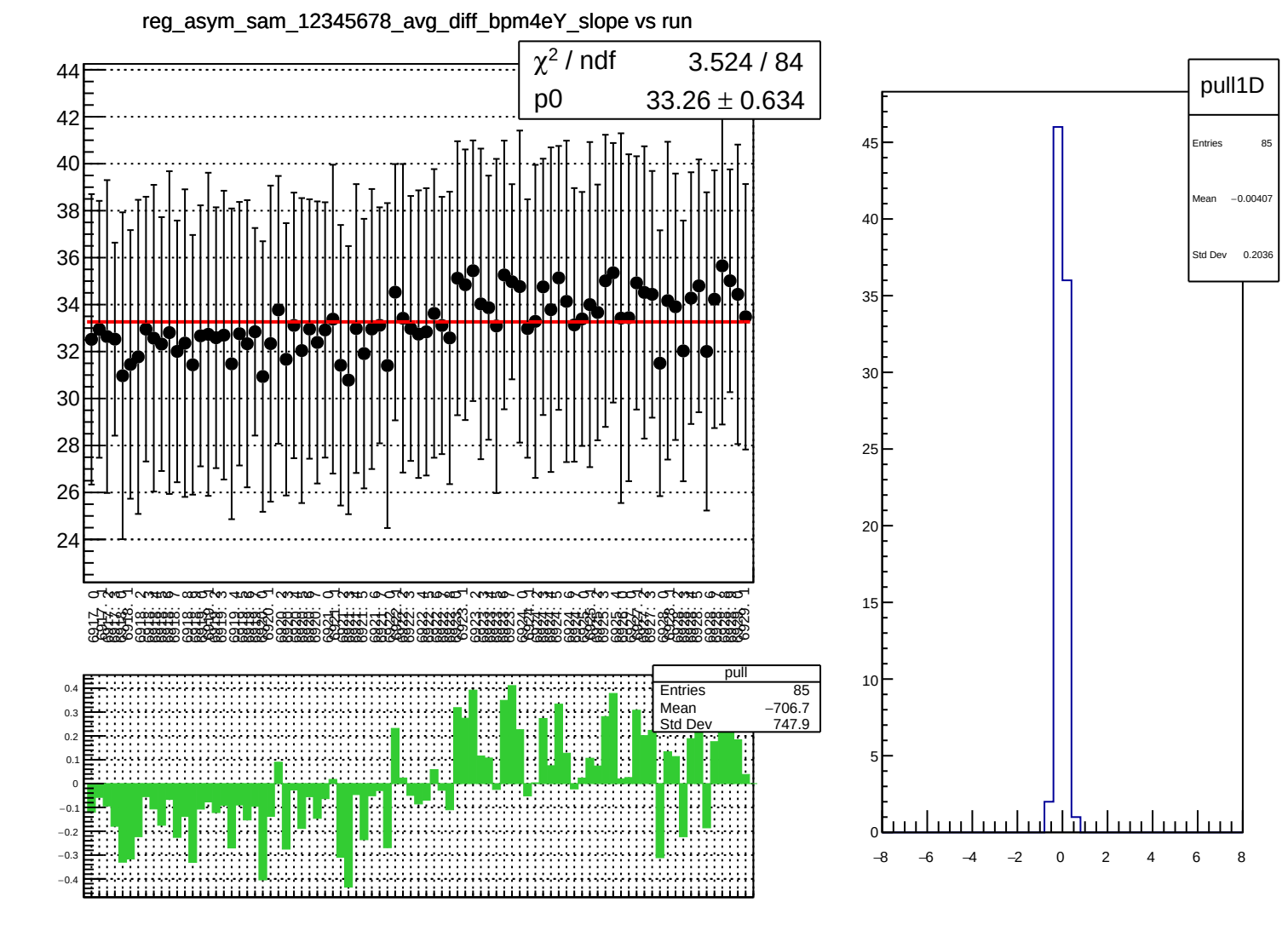

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.087 / 84
p0 0.02185 ± 0.009616
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 427.6
Std Dev 391
0.2
0.1
0
−0.1
−0.2
−0.3

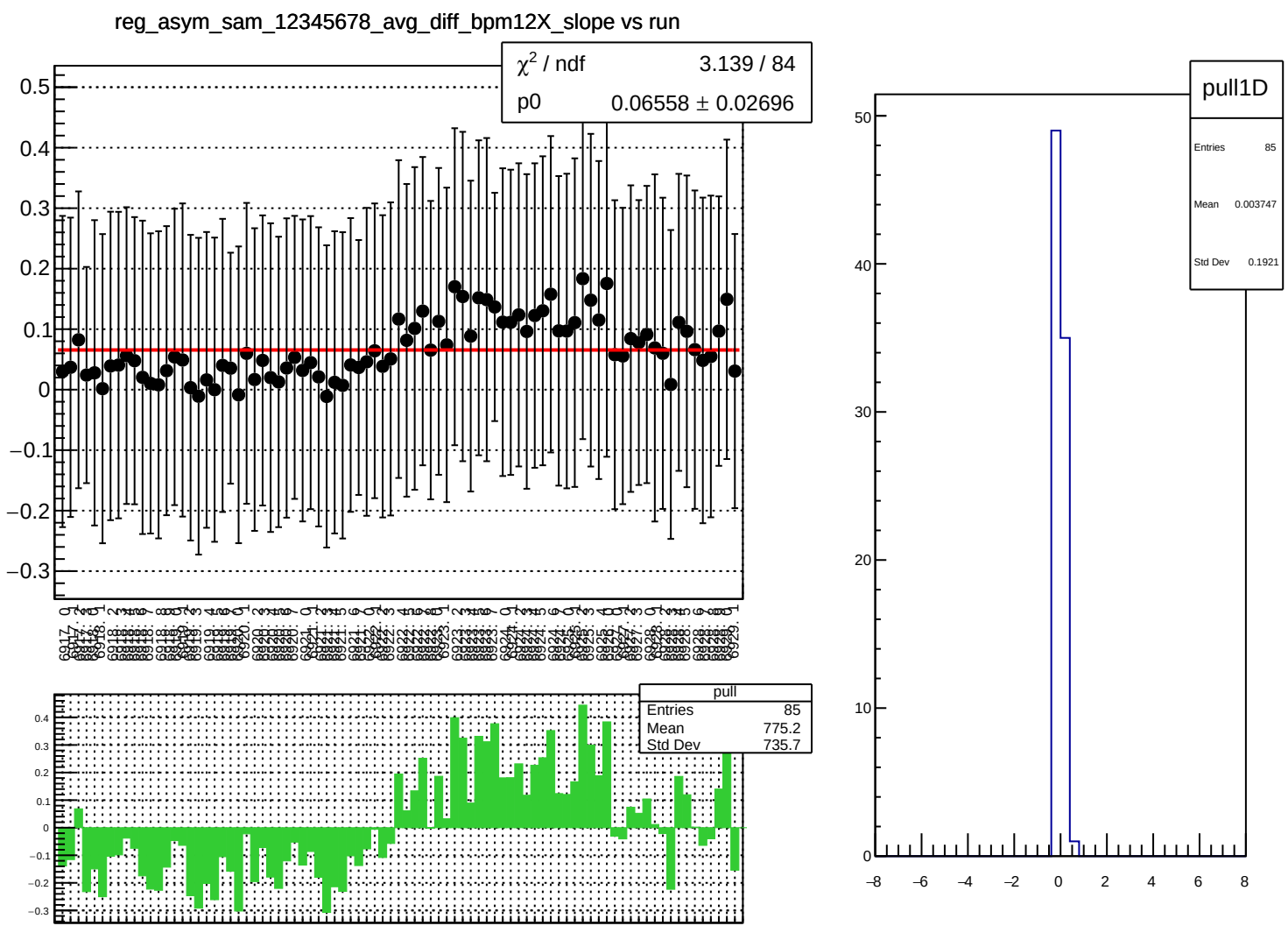

pull1D
Entries 85
Mean −0.001156
Std Dev 0.1131
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

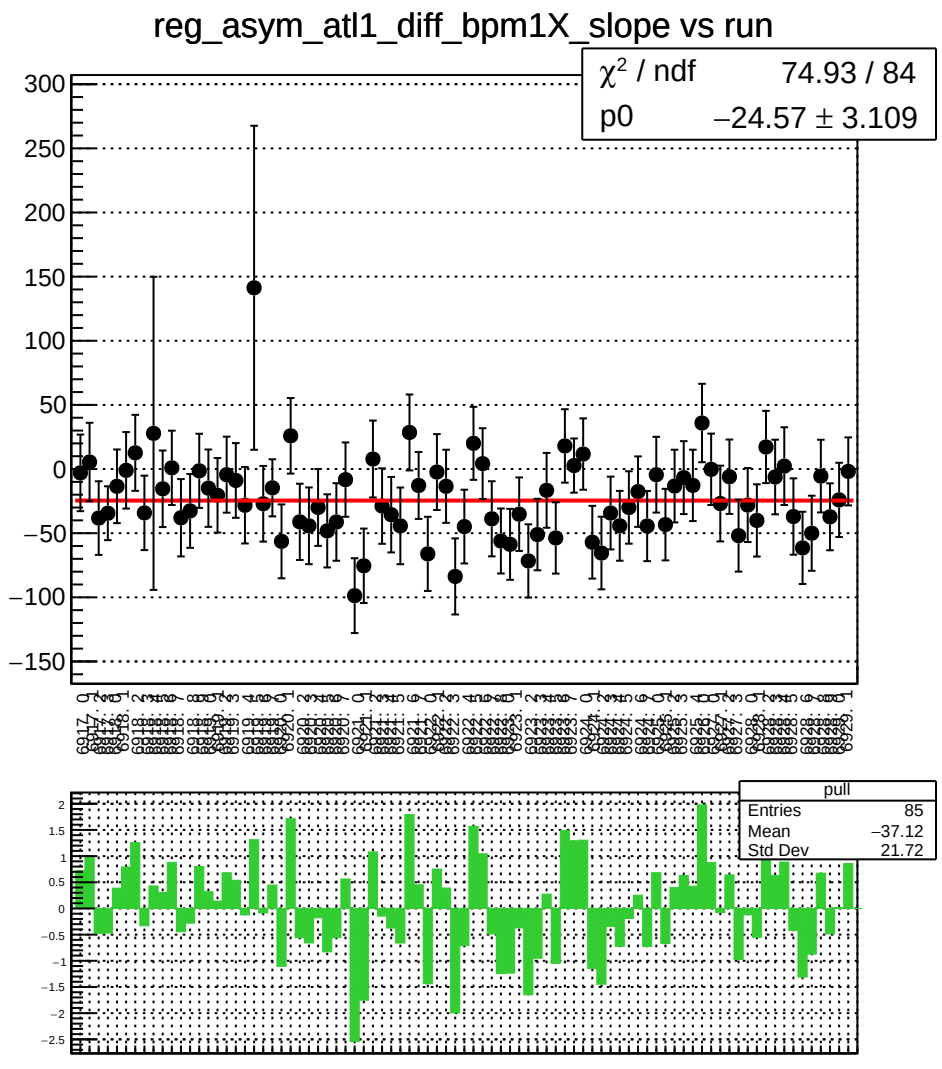

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 6.387 / 84
p0 −13.64 ± 0.8129
pull
Entries 85
Mean 1088
Std Dev 1040
pull1D
Entries 85
Mean 0.003481
Std Dev 0.2741

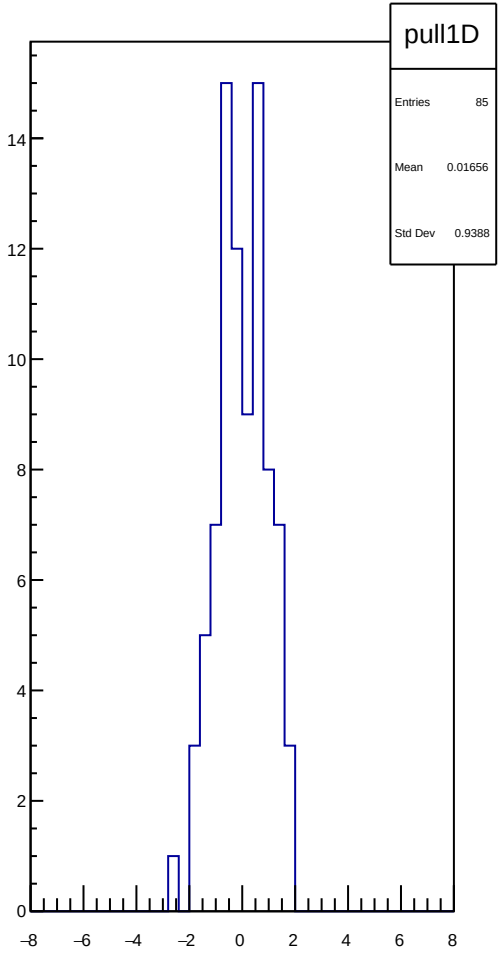

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.199 / 84
p0 0.3222 ± 0.5582
pull
Entries 85
Mean −214.1
Std Dev 256.9
pull1D
Entries 85
Mean 0.006832
Std Dev 0.1607

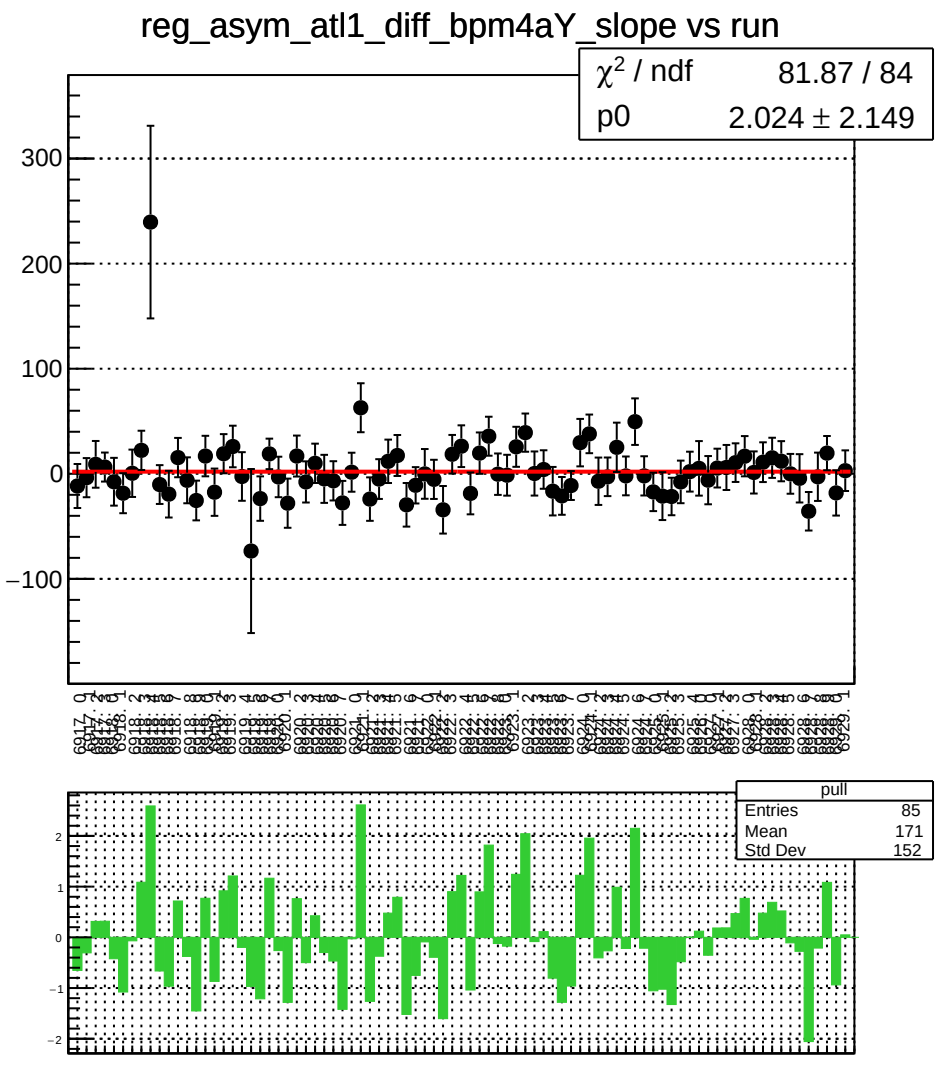

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.31 / 84
p0 −48.91 ± 0.754
−40
−45
−50
−55
−60
pull
Entries 85
Mean 633.1
Std Dev 583.4
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean −0.006317
Std Dev 0.3126
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

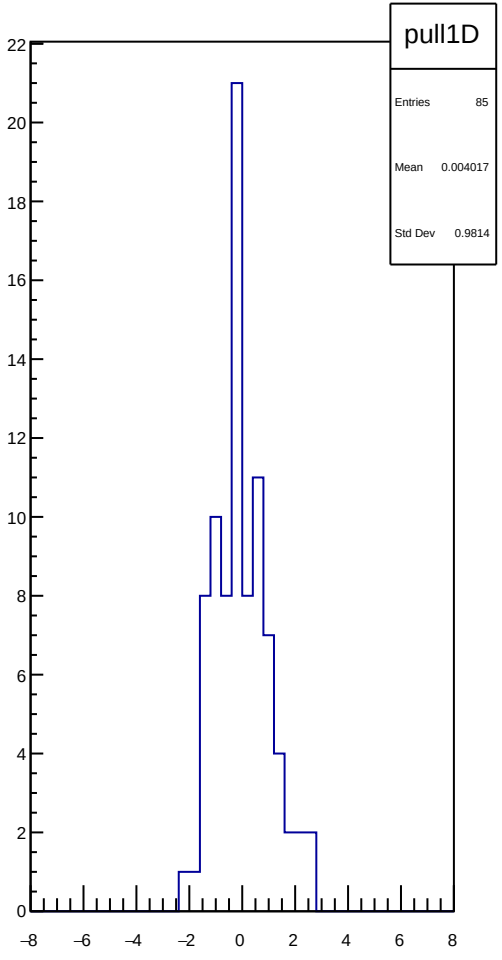

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.524 / 84
p0 33.26 ± 0.634
pull
Entries 85
Mean −706.7
Std Dev 747.9
pull1D
Entries 85
Mean −0.00407
Std Dev 0.2036

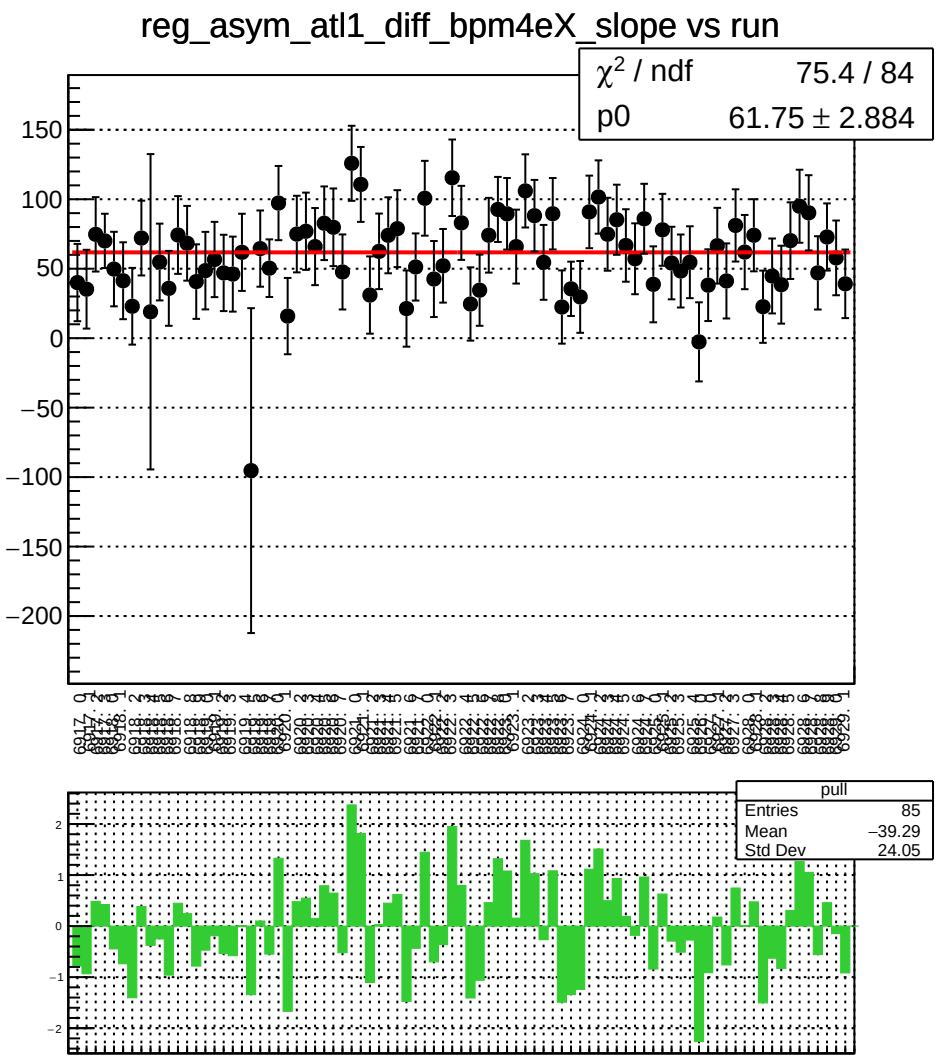

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.139 / 84
p0 0.06558 ± 0.02696
pull
Entries 85
Mean 775.2
Std Dev 735.7
pull1D
Entries 85
Mean 0.003747
Std Dev 0.1921

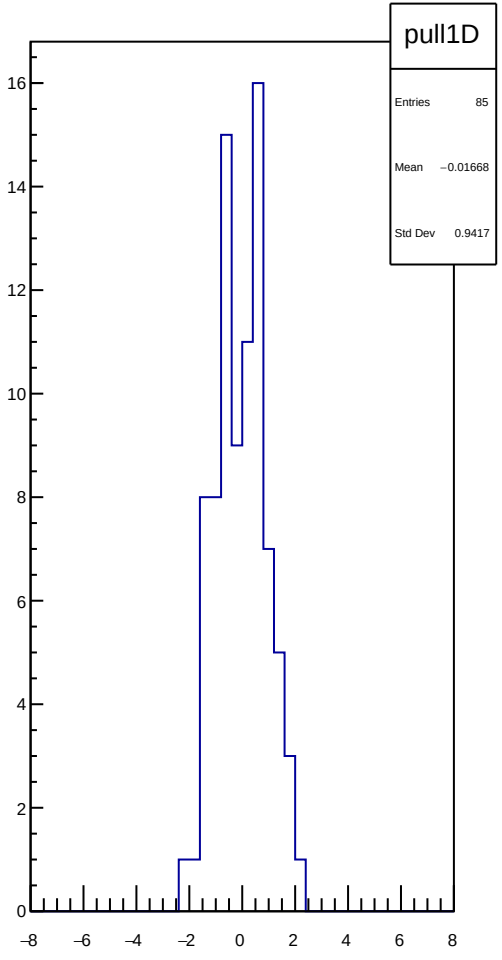

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 74.93 / 84
p0 −24.57 ± 3.109
pull
Entries 85
Mean −37.12
Std Dev 21.72

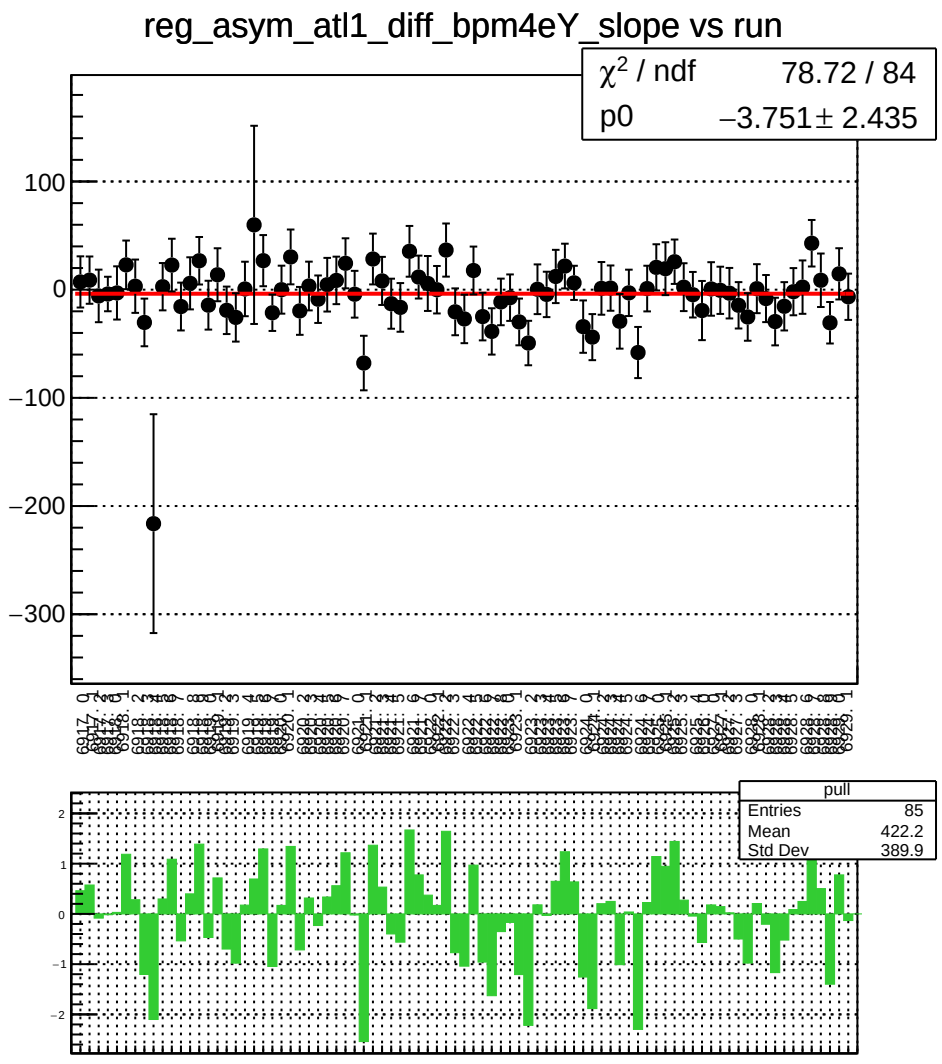

pull1D
Entries 85
Mean 0.01656
Std Dev 0.9388

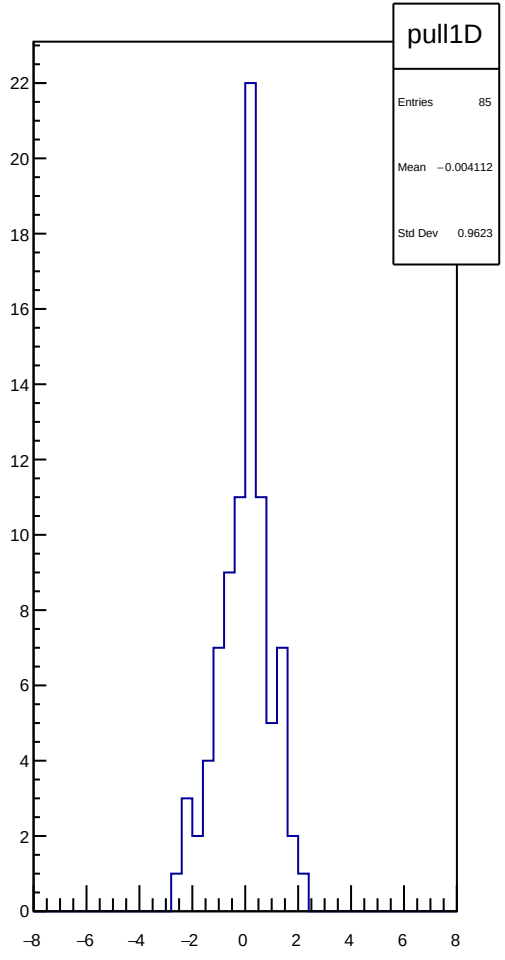

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 81.87 / 84
p0 2.024 ± 2.149
300
200
100
0
−100
pull
Entries 85
Mean 171
Std Dev 152
2
1
0
−1
−2

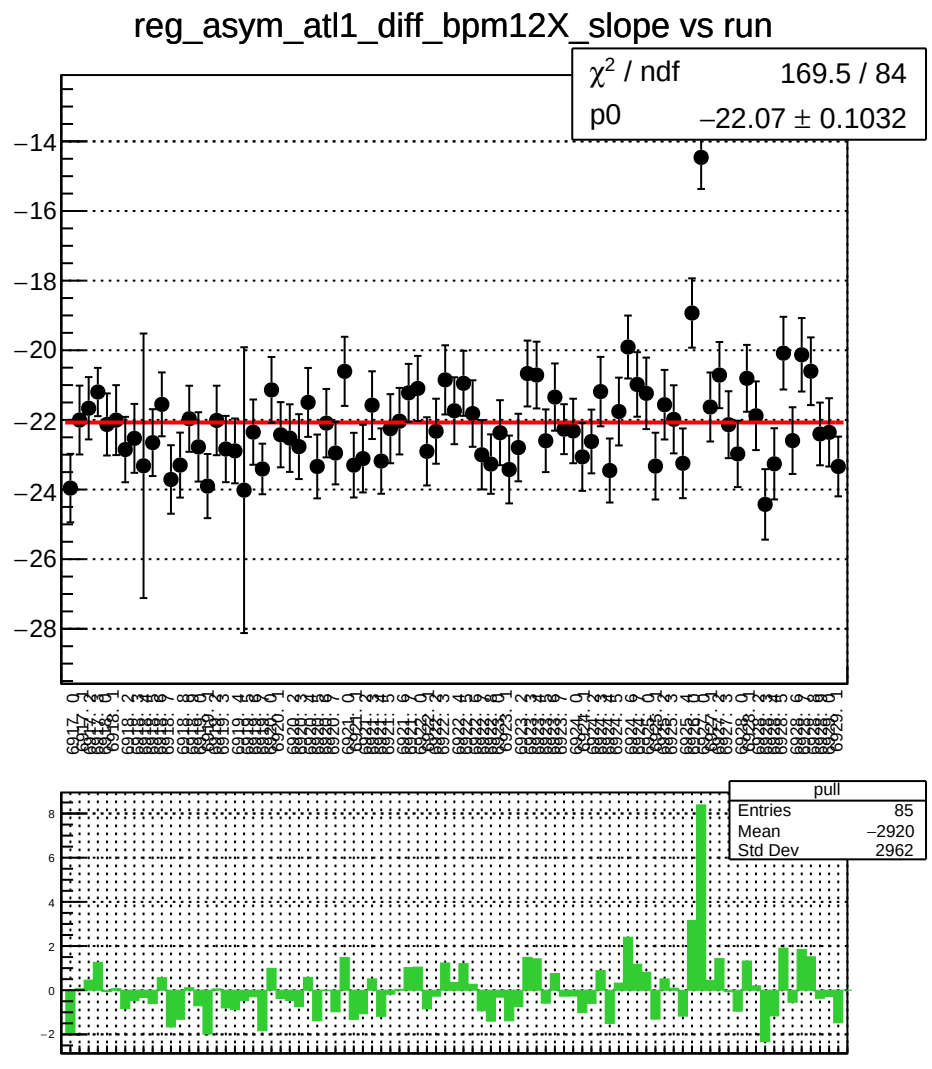

pull1D
Entries 85
Mean 0.004017
Std Dev 0.9814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

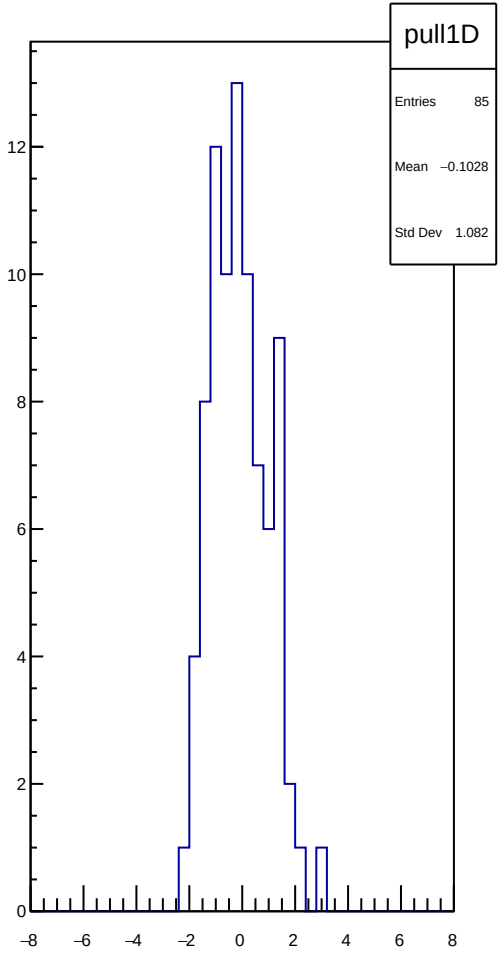

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 75.4 / 84
p0 61.75 ± 2.884
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −39.29
Std Dev 24.05
2
1
0
−1
−2

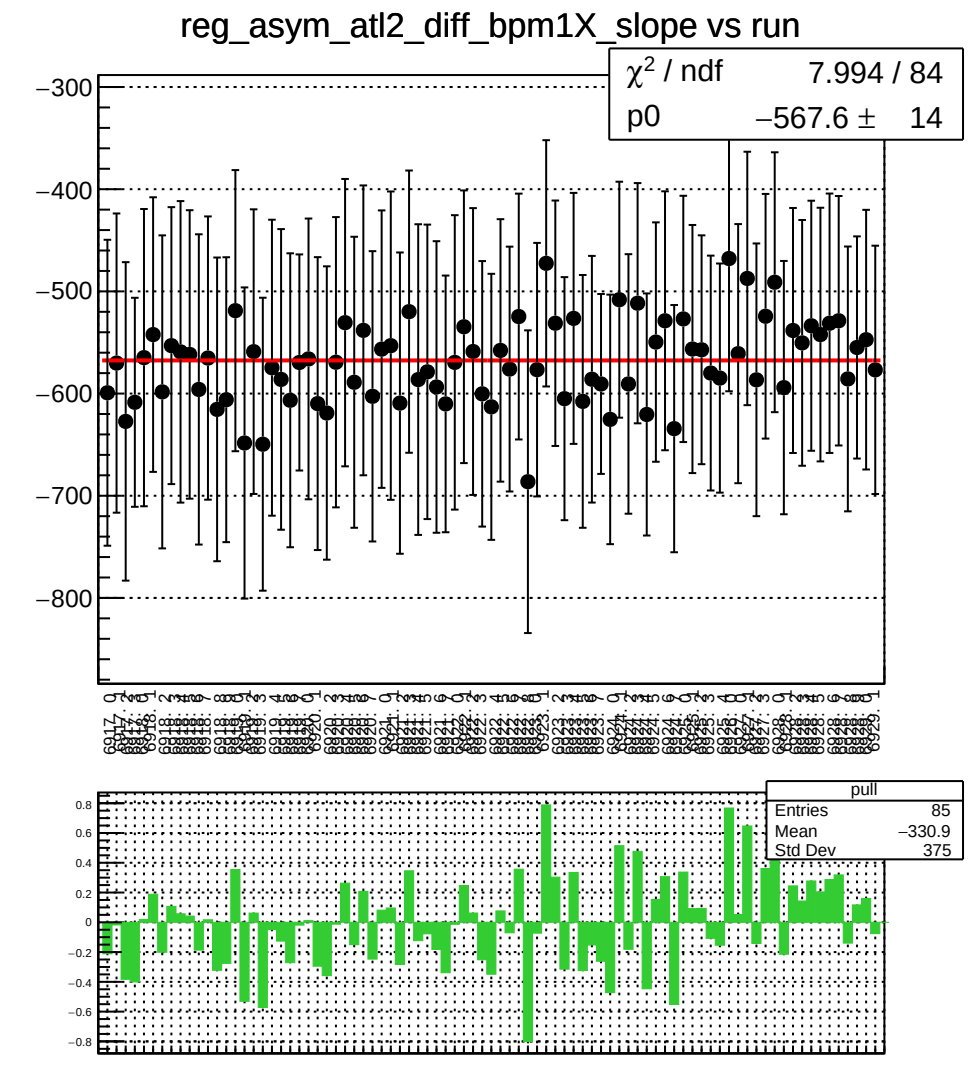

pull1D
Entries 85
Mean −0.01668
Std Dev 0.9417
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

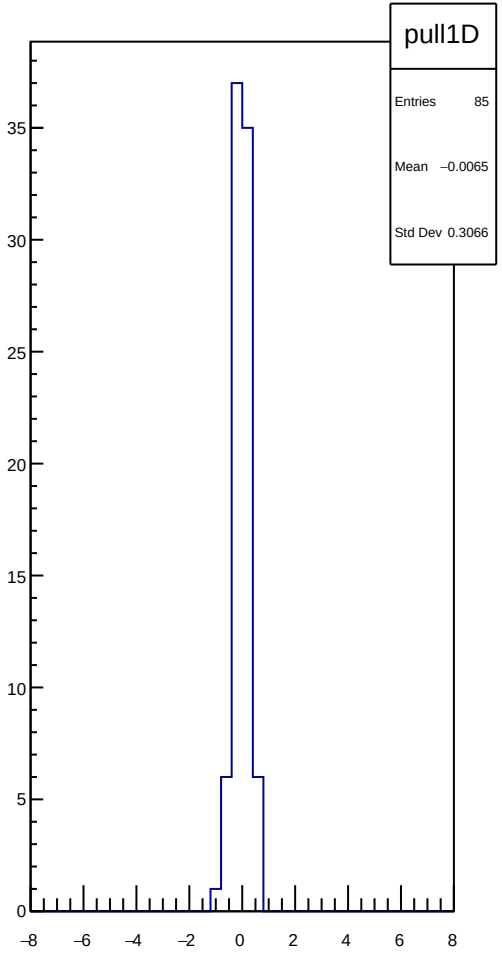

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 78.72 / 84
p0 −3.751 ± 2.435
100
0
−100
−200
−300
pull
Entries 85
Mean 422.2
Std Dev 389.9
2
1
0
−1
−2

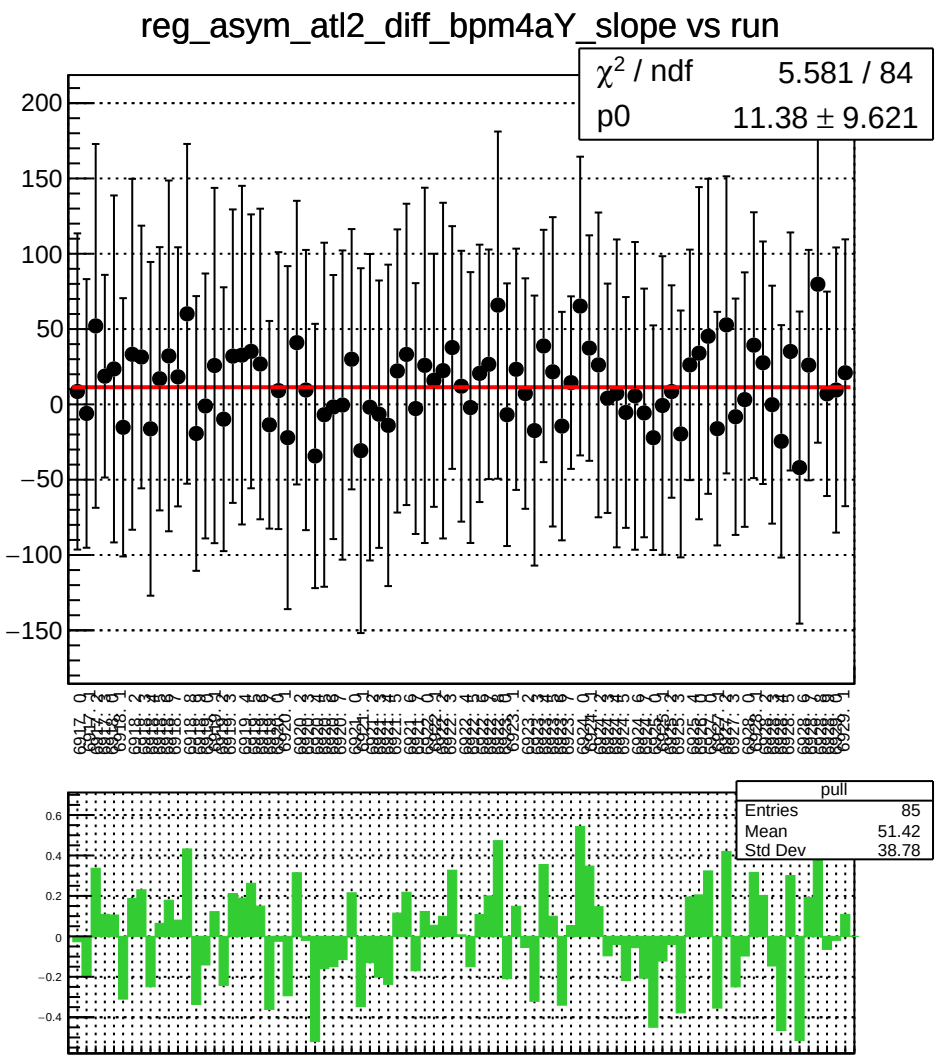

pull1D
Entries 85
Mean −0.004112
Std Dev 0.9623
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

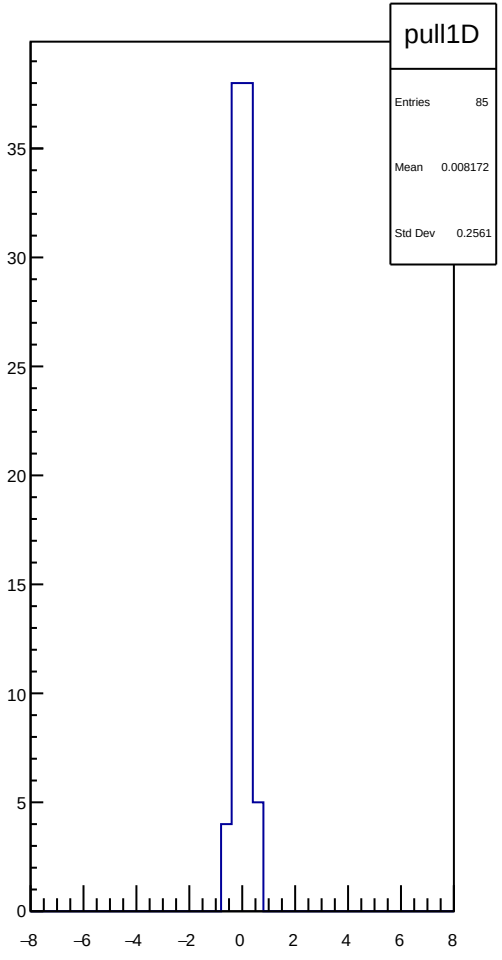

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 169.5 / 84
p0 −22.07 ± 0.1032
pull
Entries 85
Mean −2920
Std Dev 2962

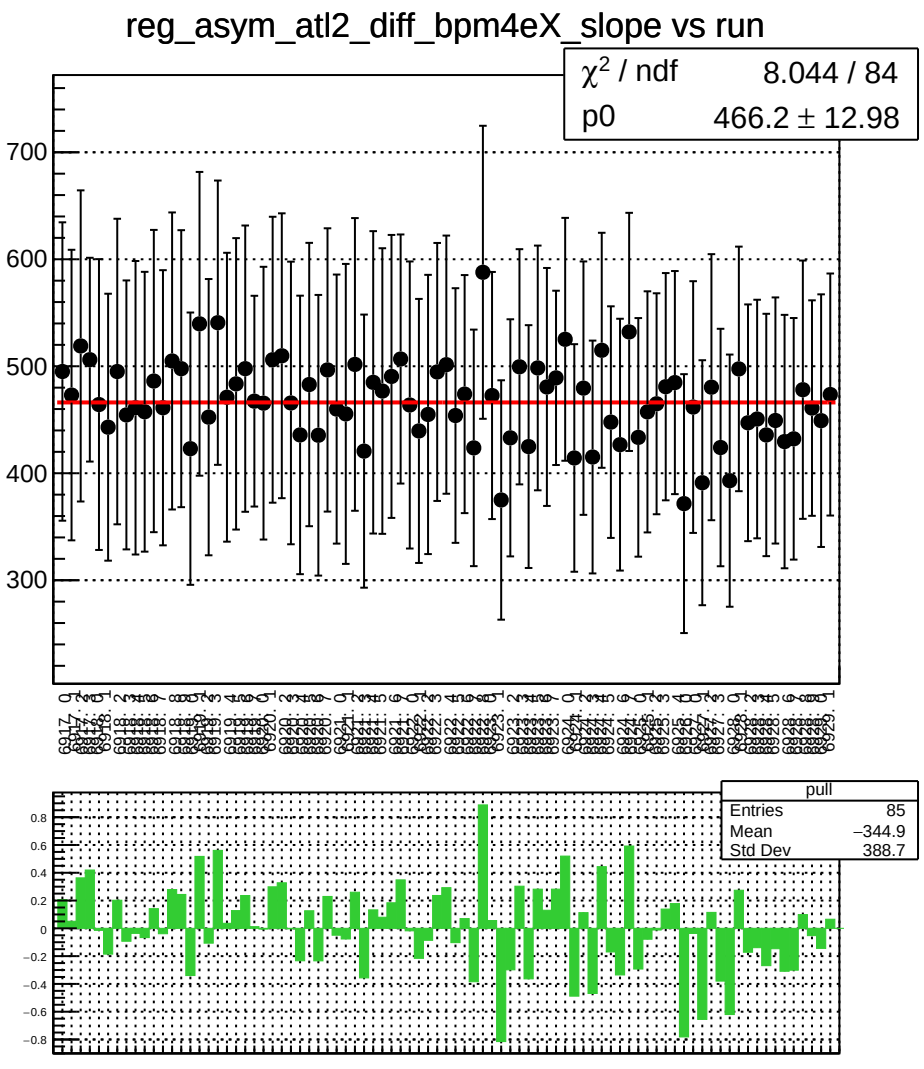

pull1D
Entries 85
Mean −0.1028
Std Dev 1.082

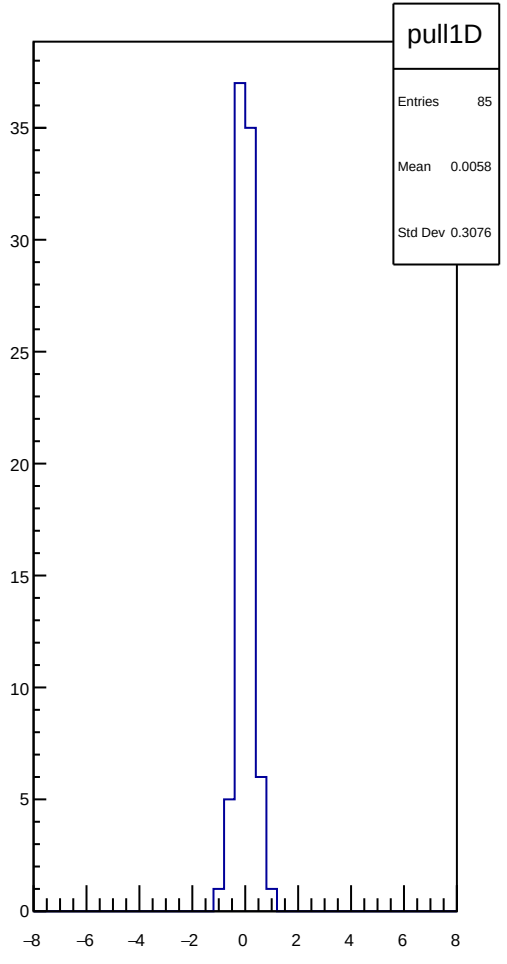

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 7.994 / 84
p0 −567.6 ± 14
pull
Entries 85
Mean −330.9
Std Dev 375

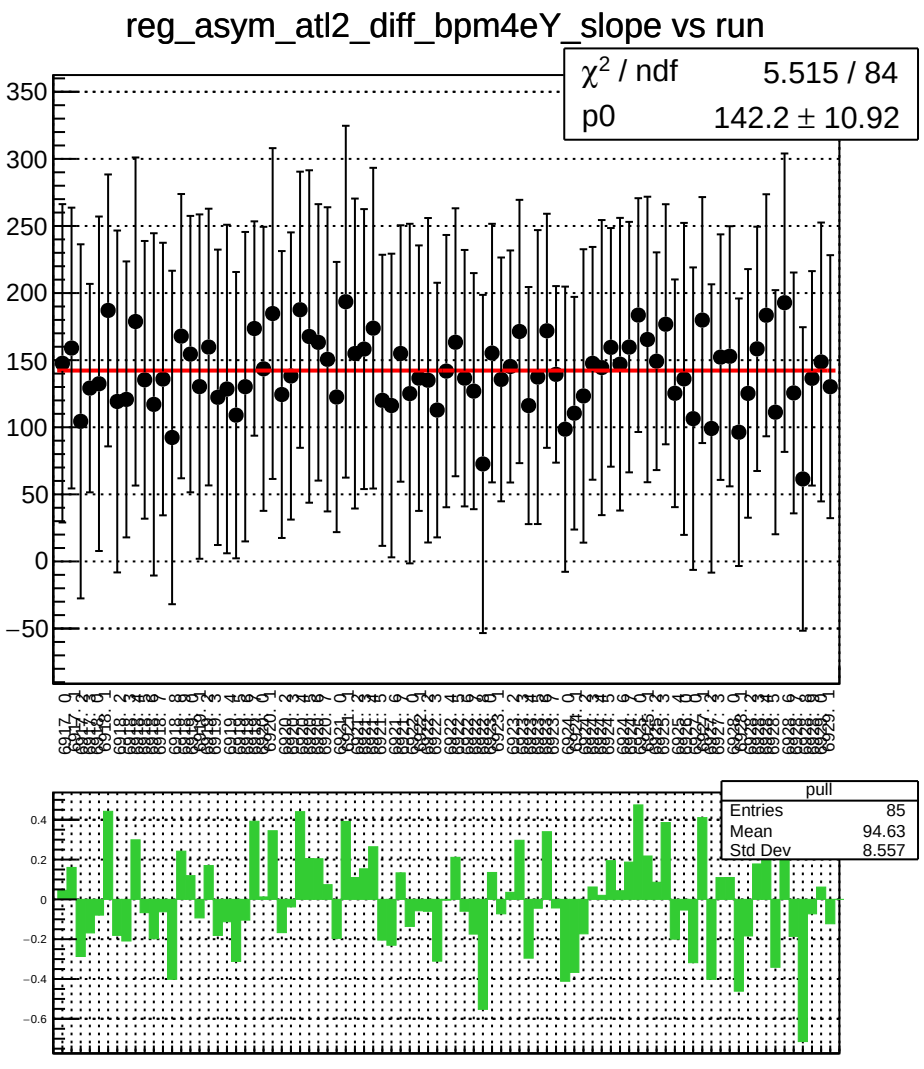

pull1D
Entries 85
Mean −0.0065
Std Dev 0.3066

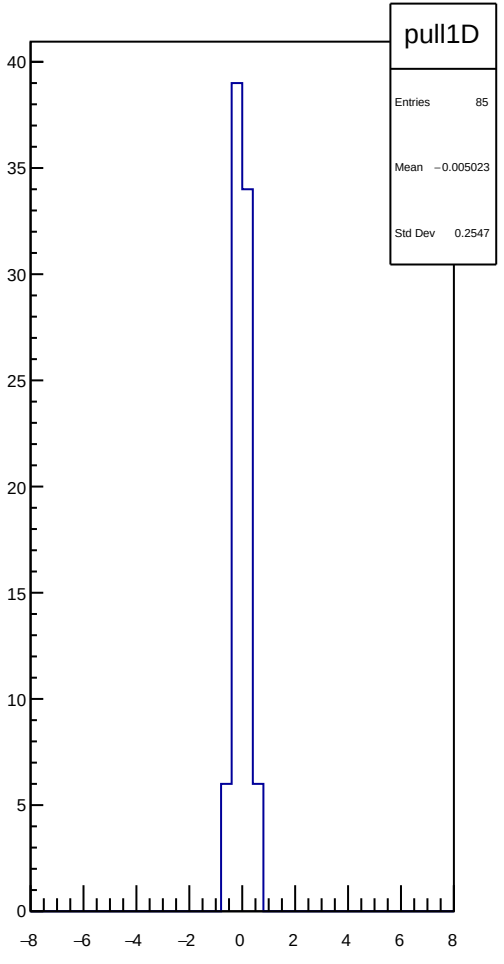

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.581 / 84
p0 11.38 ± 9.621
pull
Entries 85
Mean 51.42
Std Dev 38.78

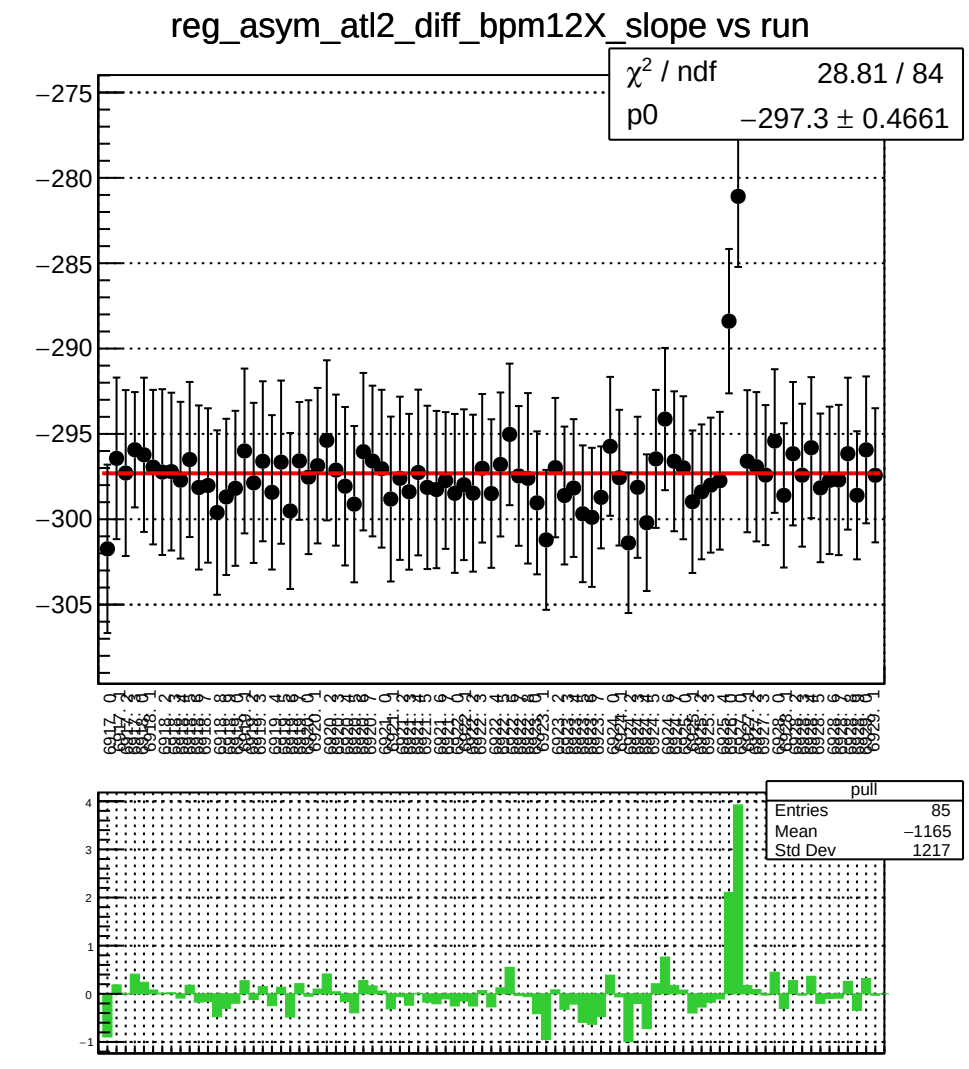

pull1D
Entries 85
Mean 0.008172
Std Dev 0.2561

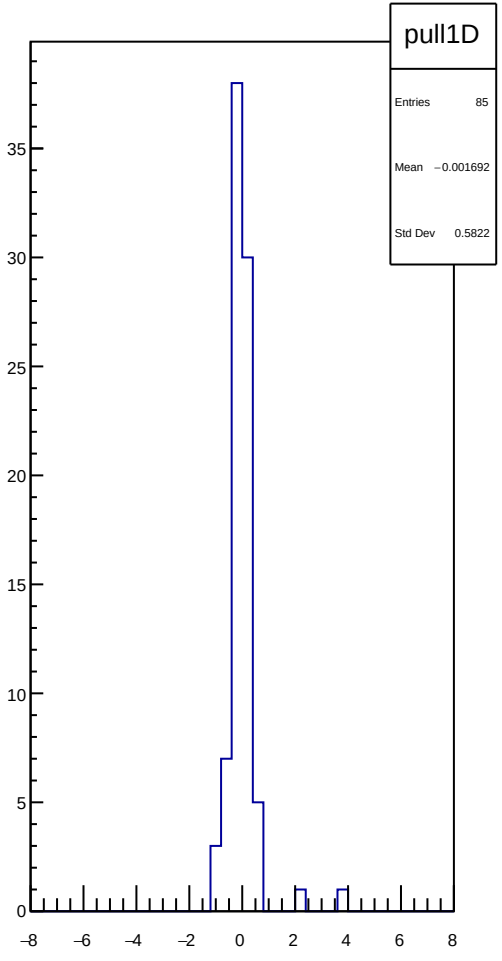

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 8.044 / 84
p0 466.2 ± 12.98
700
600
500
400
300
pull
Entries 85
Mean −344.9
Std Dev 388.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

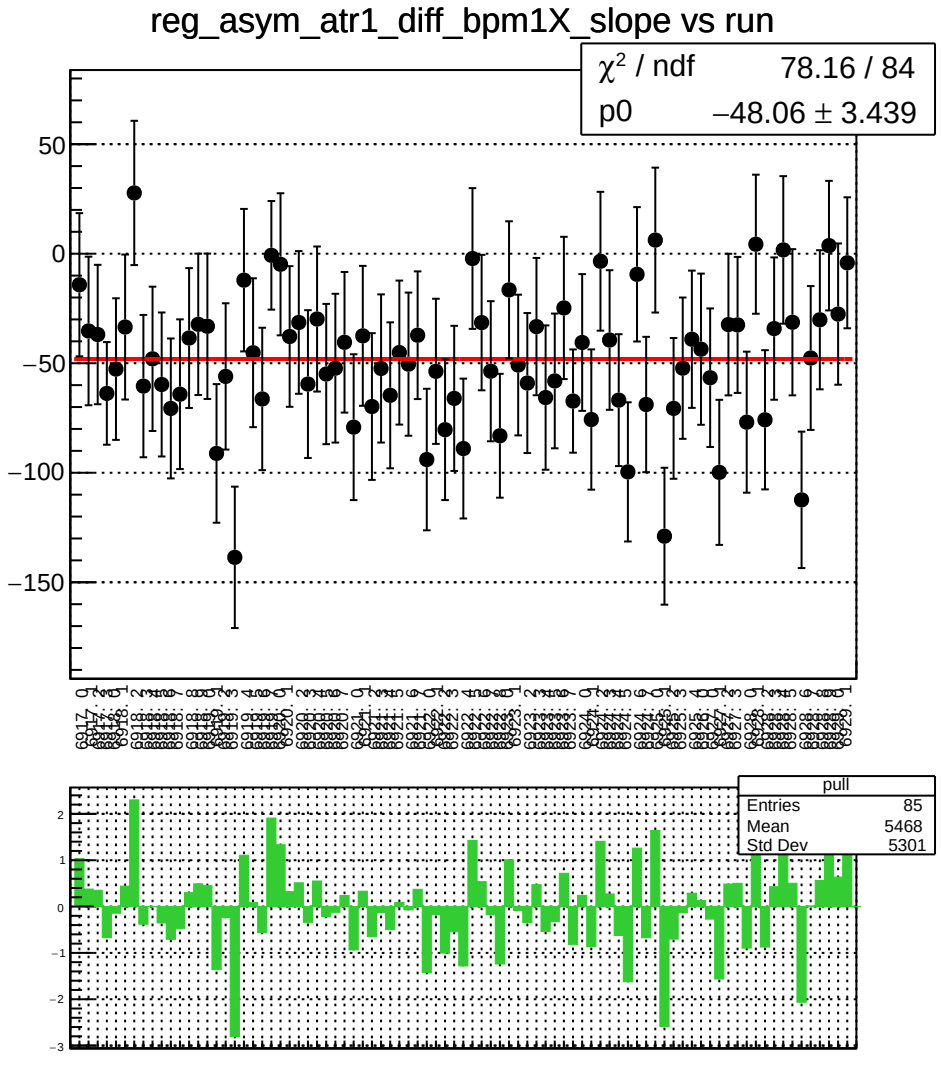

pull1D
Entries 85
Mean 0.0058
Std Dev 0.3076
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

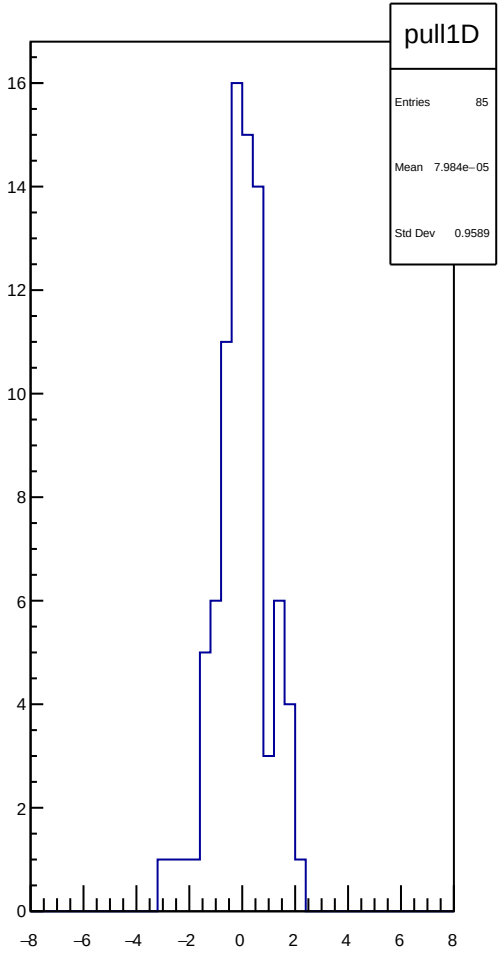

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.515 / 84
p0 142.2 ± 10.92
pull
Entries 85
Mean 94.63
Std Dev 8.557

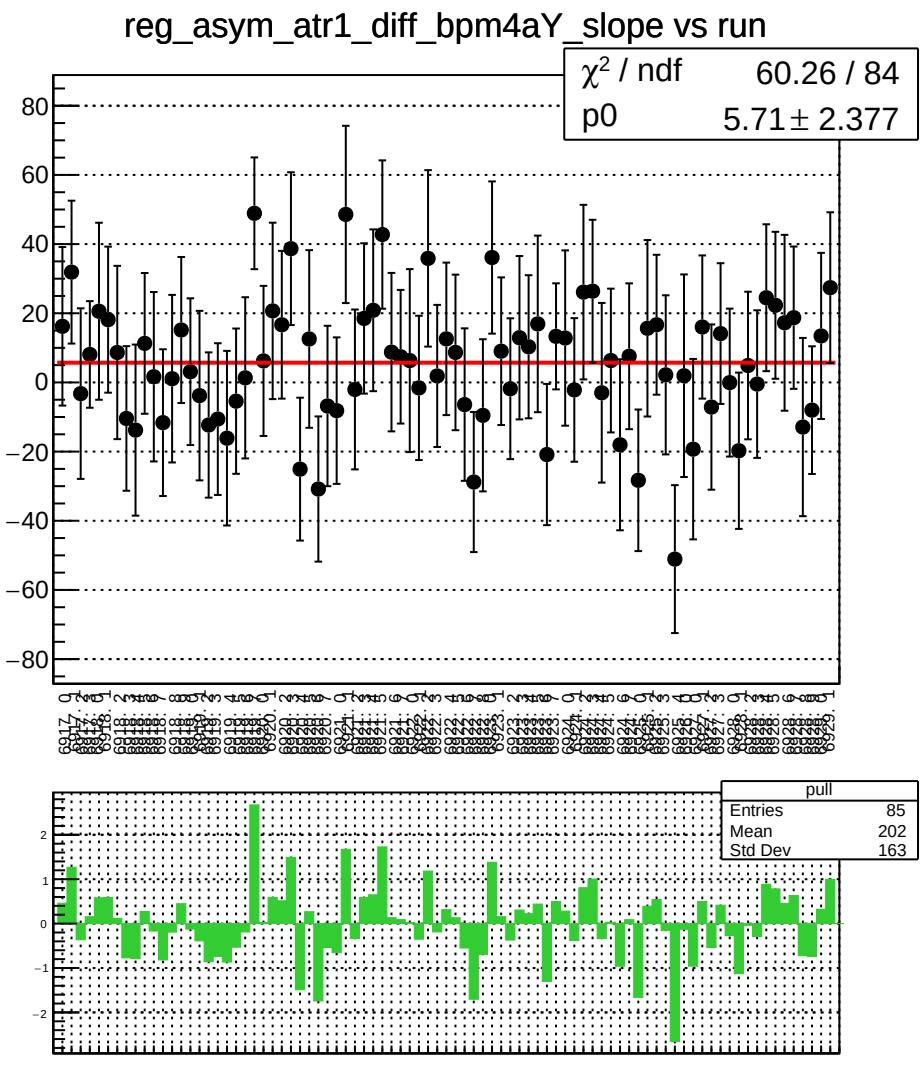

pull1D
Entries 85
Mean −0.005023
Std Dev 0.2547

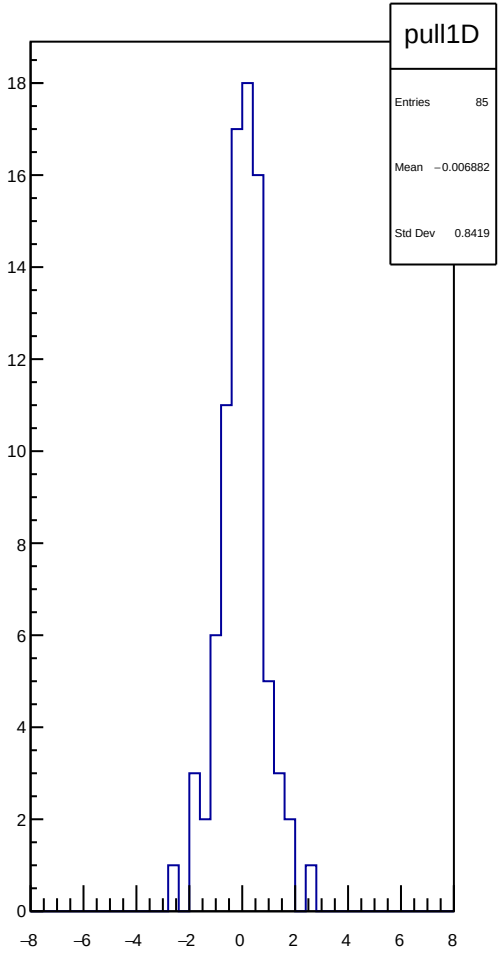

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 28.81 / 84
p0 −297.3 ± 0.4661
pull
Entries 85
Mean −1165
Std Dev 1217

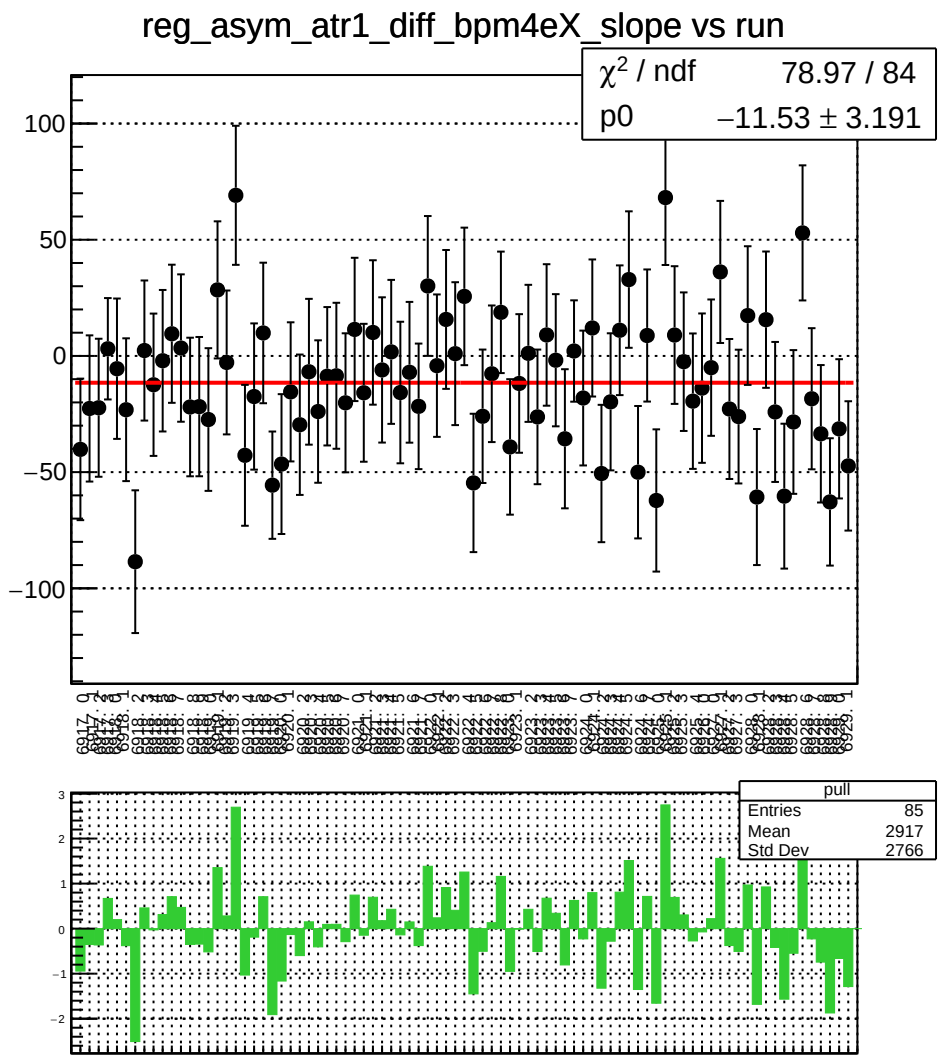

pull1D
Entries 85
Mean −0.001692
Std Dev 0.5822

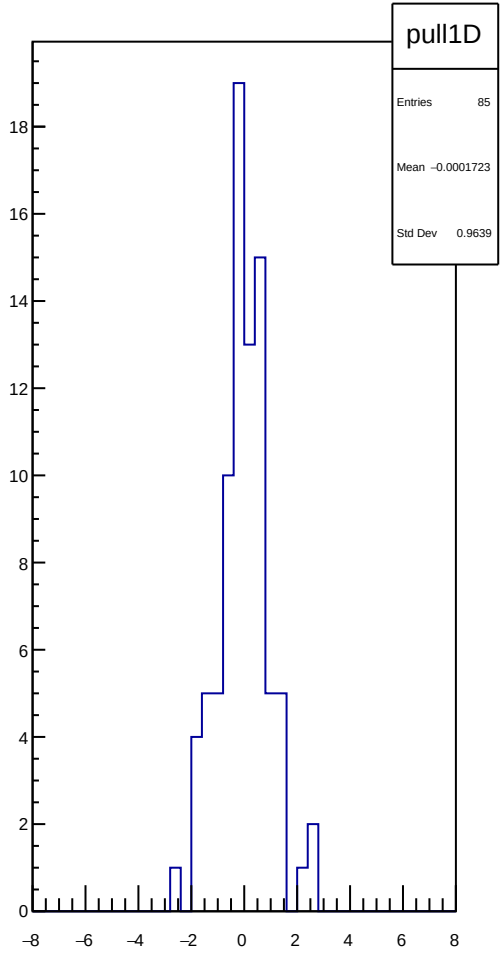

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 78.16 / 84
p0 −48.06 ± 3.439
pull
Entries 85
Mean 5468
Std Dev 5301

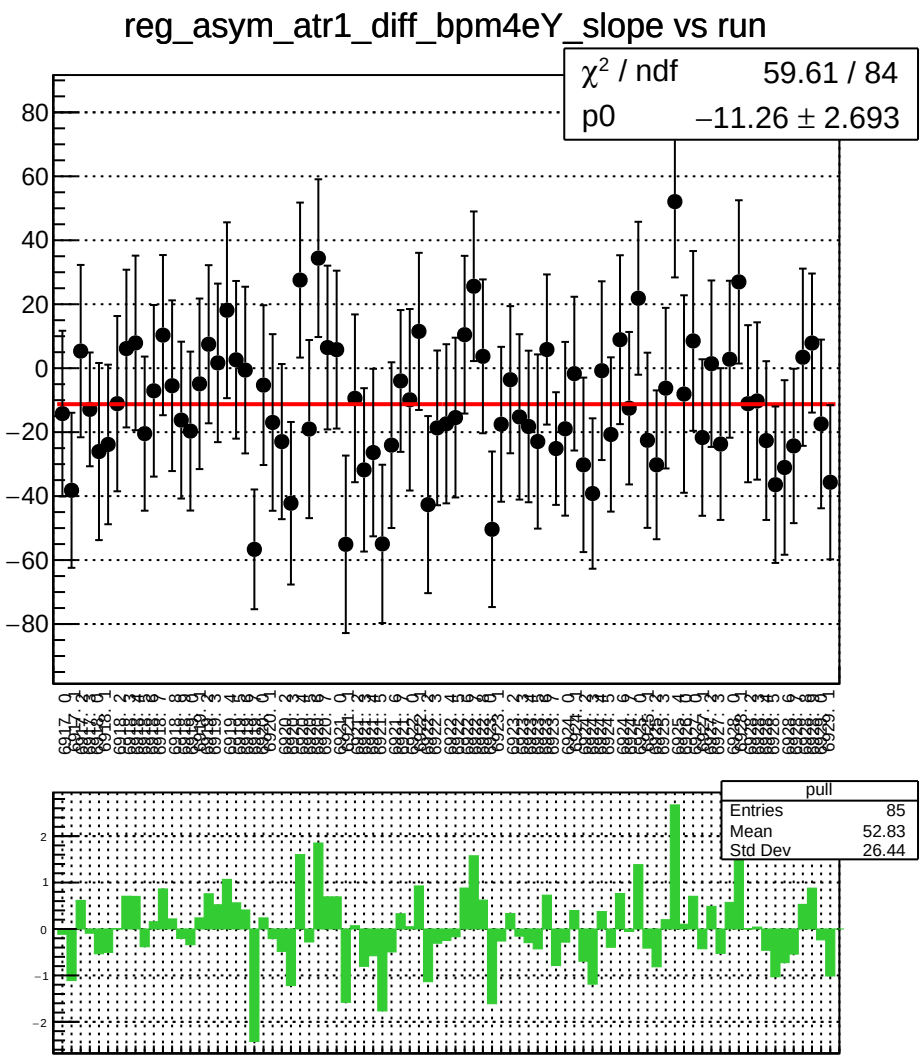

pull1D
Entries 85
Mean 7.984e−05
Std Dev 0.9589

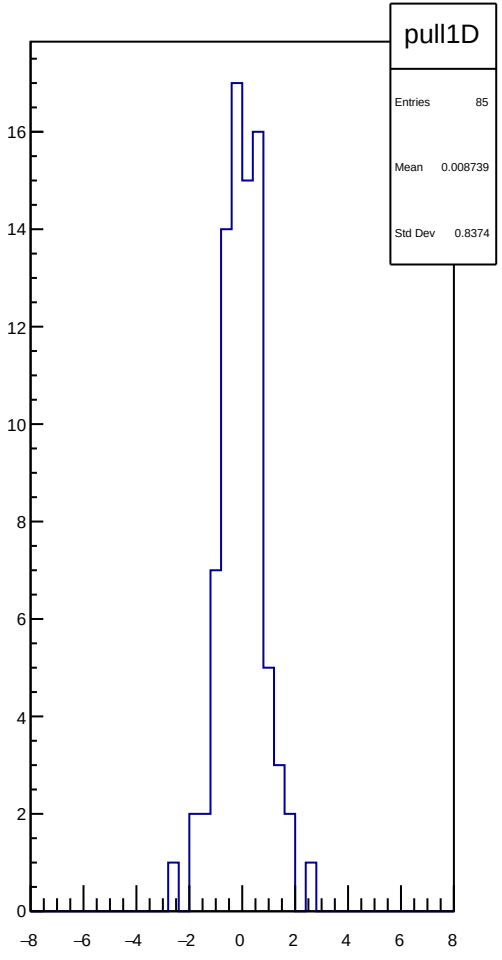

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 60.26 / 84
p0 5.71 ± 2.377
pull
Entries 85
Mean 202
Std Dev 163

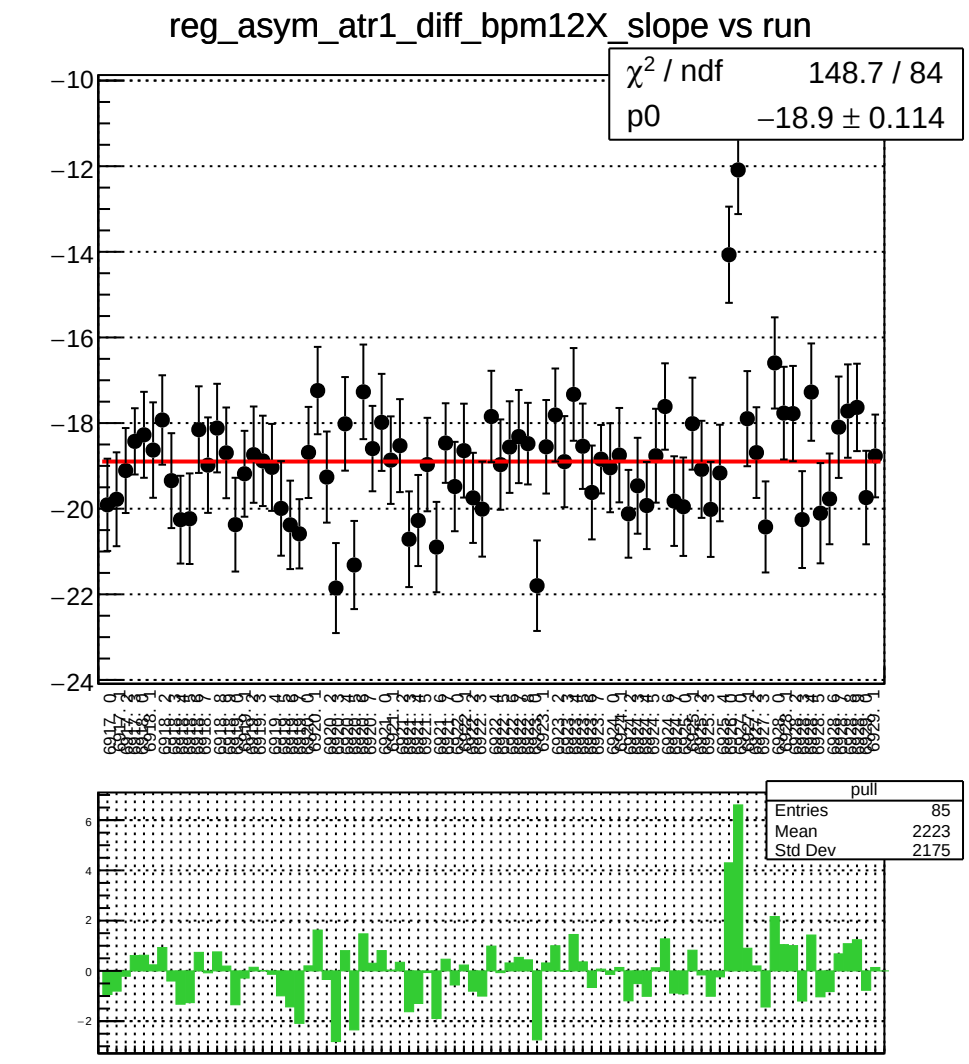

pull1D
Entries 85
Mean −0.006882
Std Dev 0.8419

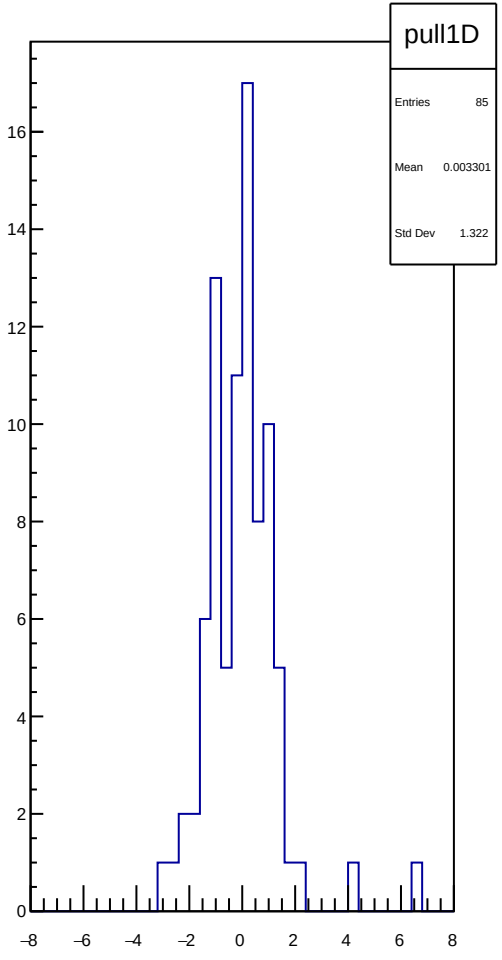

reg_asym_atr1_diff_bpm4eX_slope vs run
χ^2 / ndf 78.97 / 84
p0 −11.53 ± 3.191
100
50
0
−50
−100
pull
Entries 85
Mean 2917
Std Dev 2766
3
2
1
0
−1
−2

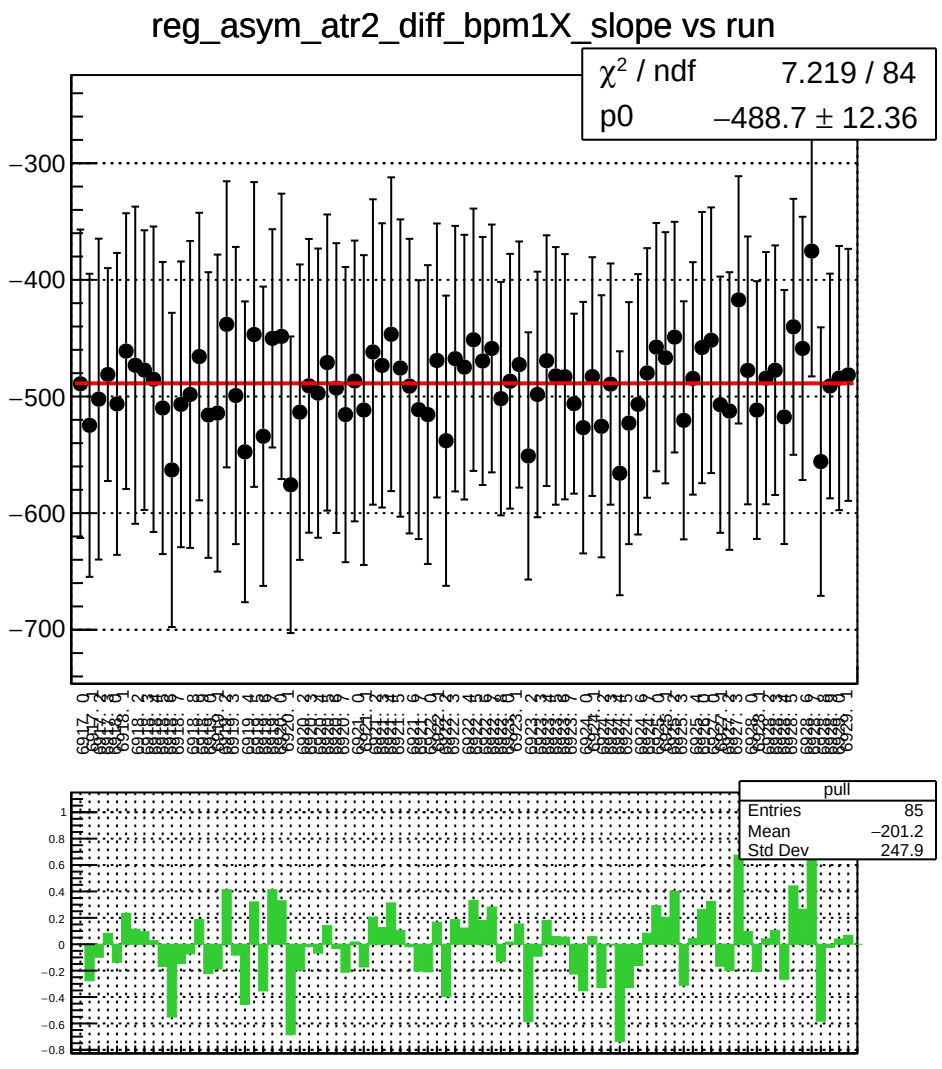

pull1D
Entries 85
Mean −0.0001723
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

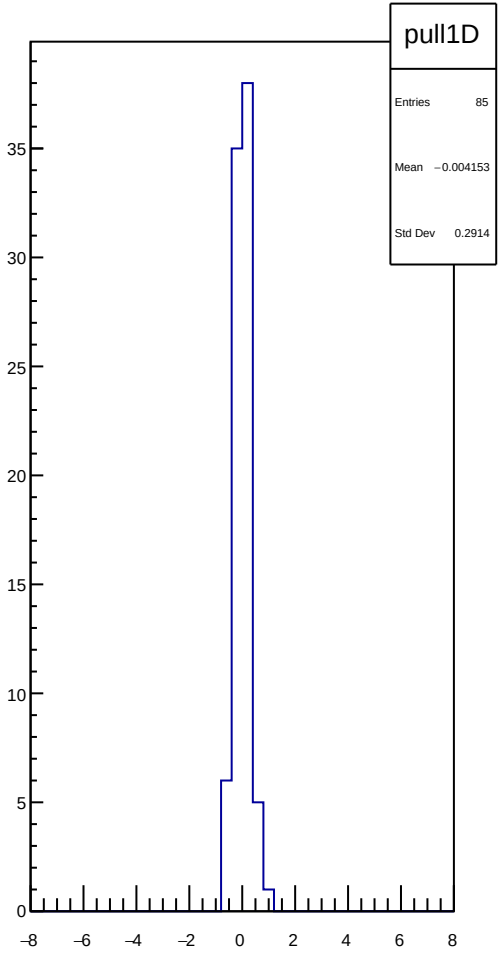

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 59.61 / 84
p0 −11.26 ± 2.693
pull
Entries 85
Mean 52.83
Std Dev 26.44

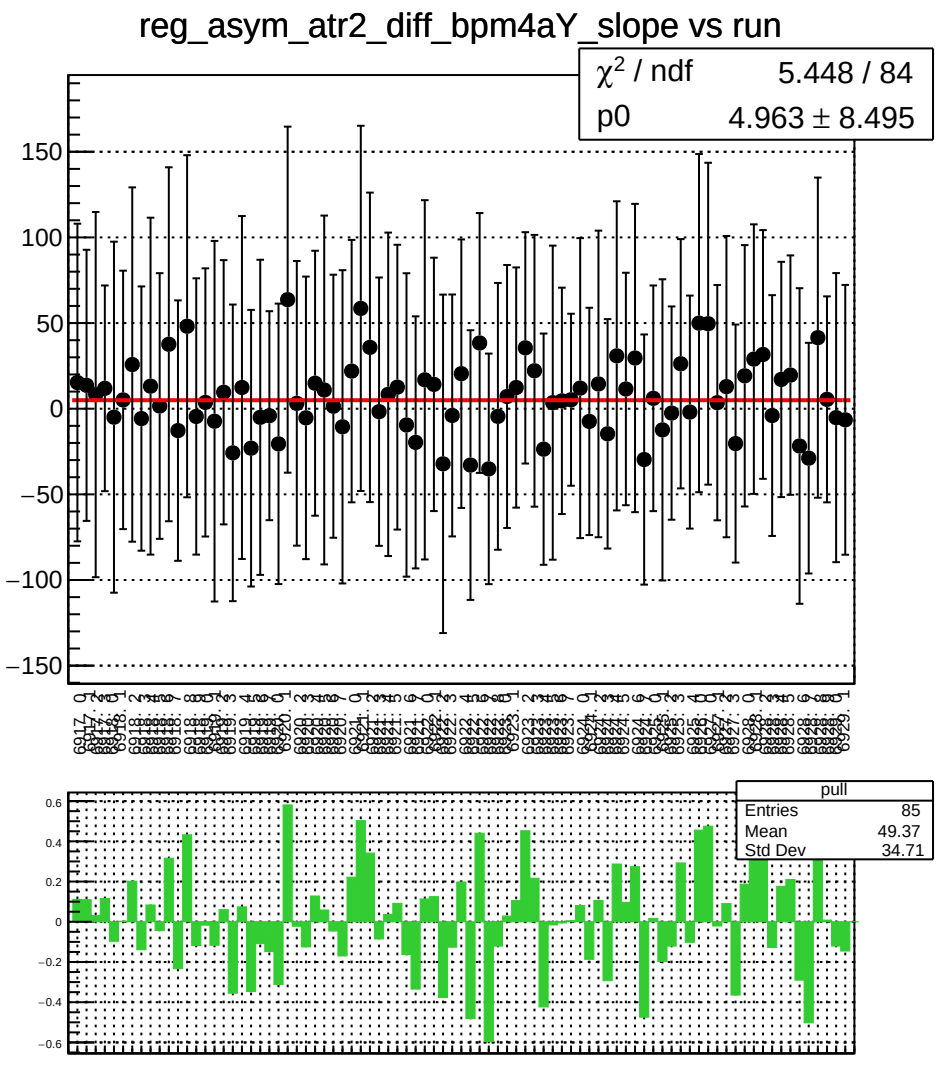

pull1D
Entries 85
Mean 0.008739
Std Dev 0.8374

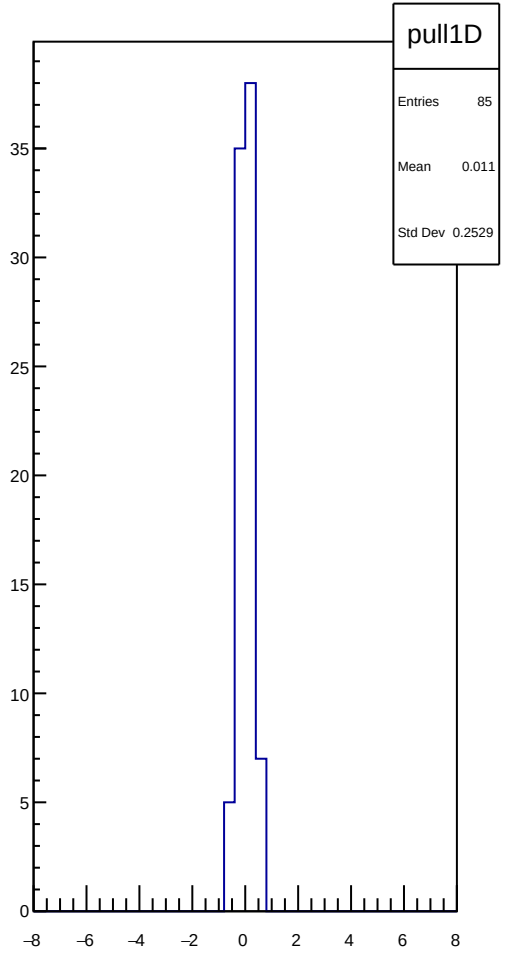

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 148.7 / 84
p0 −18.9 ± 0.114
pull
Entries 85
Mean 2223
Std Dev 2175

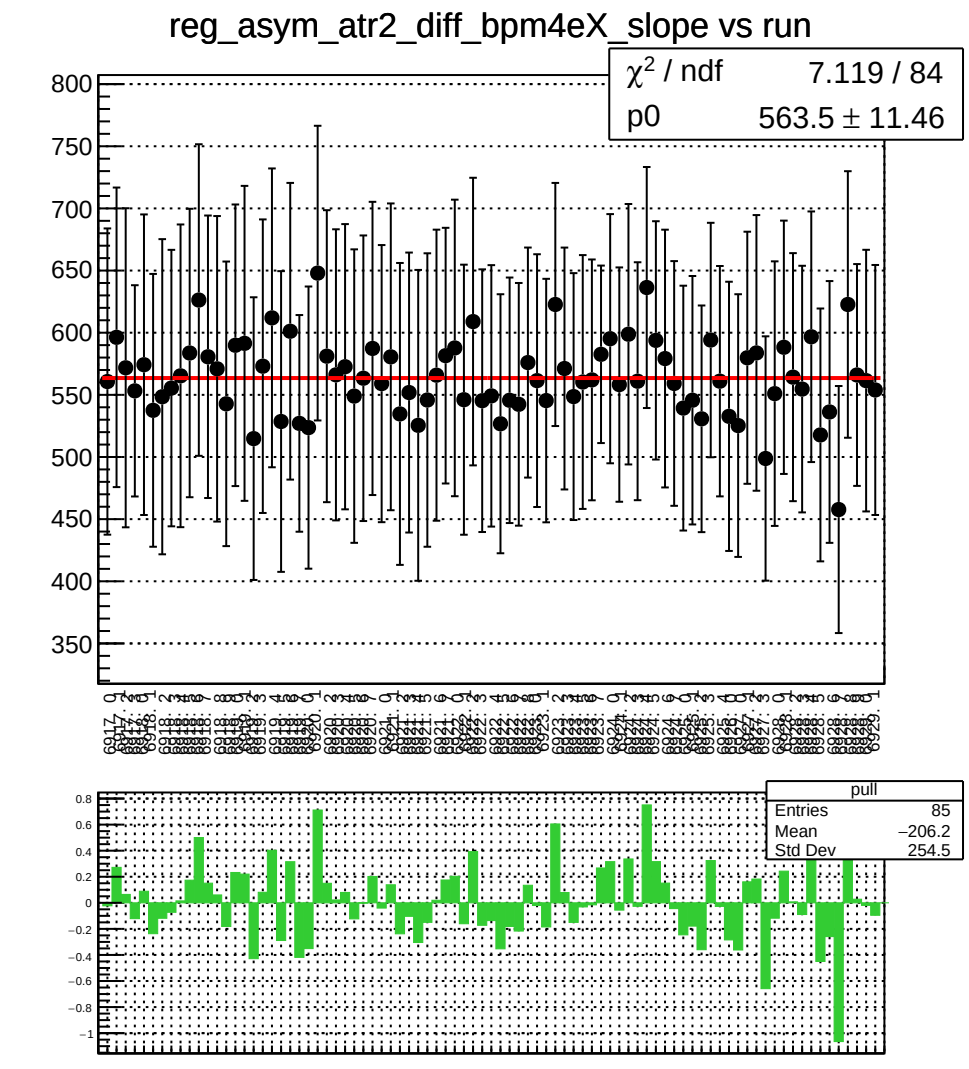

pull1D
Entries 85
Mean 0.003301
Std Dev 1.322

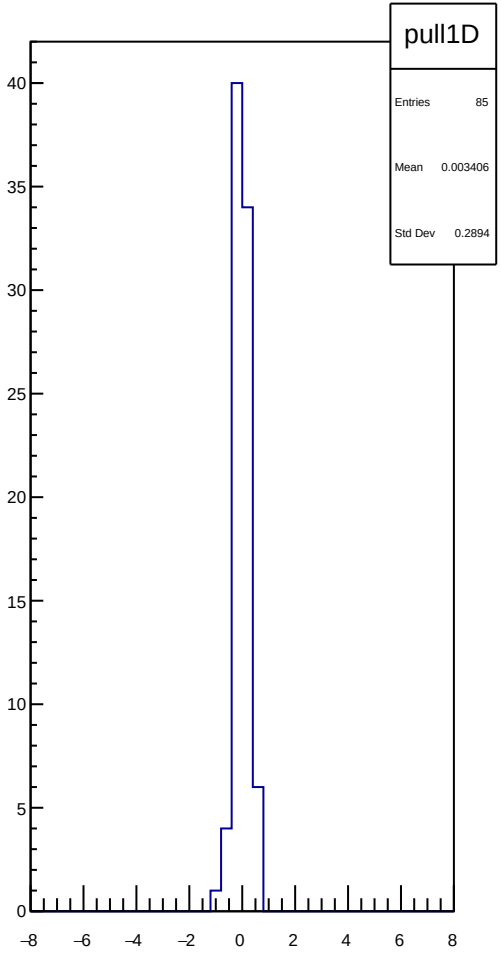

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 7.219 / 84
p0 −488.7 ± 12.36
−300
−400
−500
−600
−700
pull
Entries 85
Mean −201.2
Std Dev 247.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

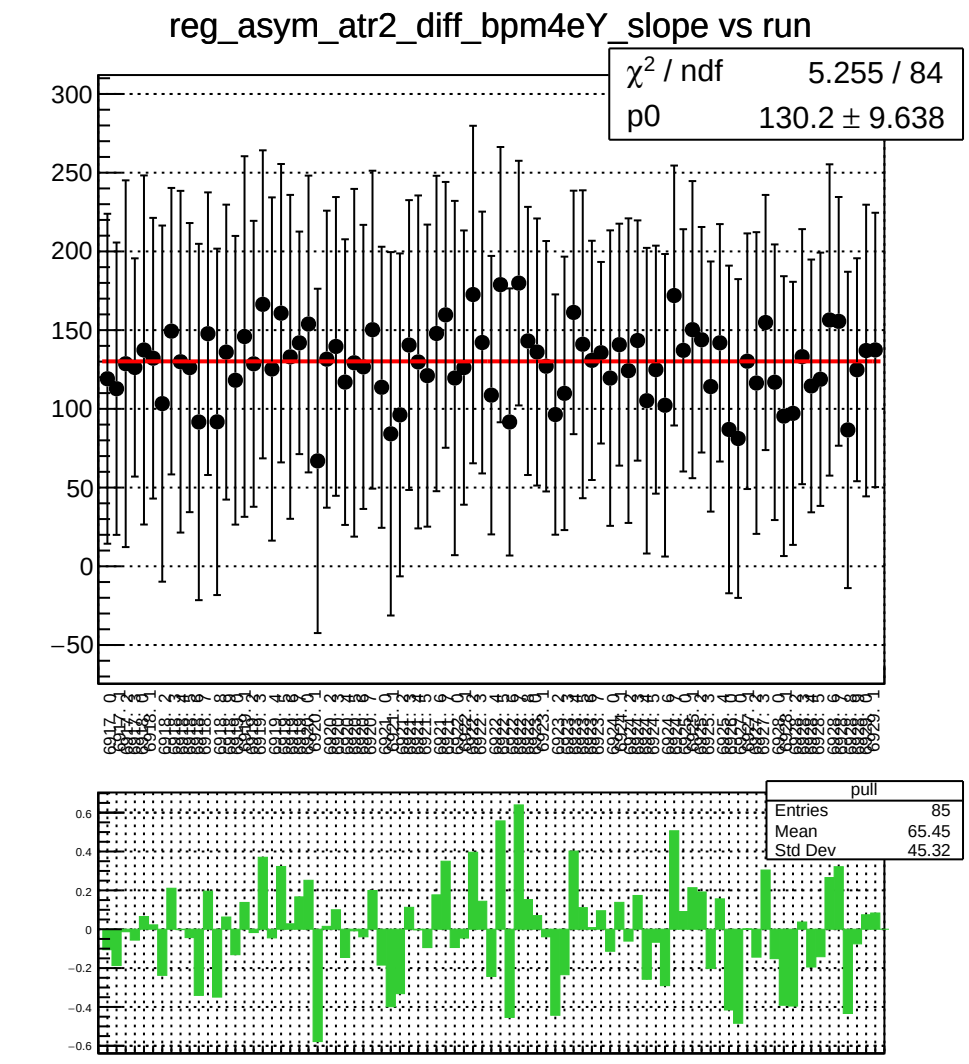

pull1D
Entries 85
Mean −0.004153
Std Dev 0.2914
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

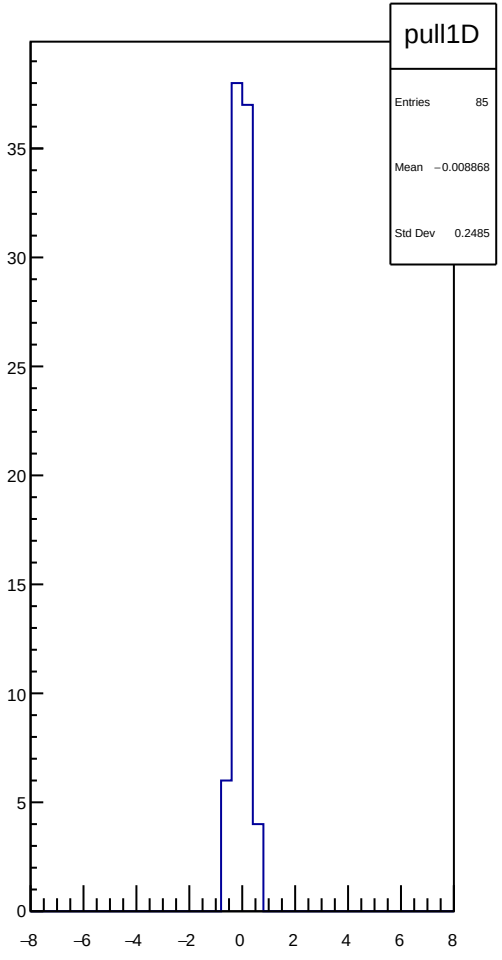

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.448 / 84
p0 4.963 ± 8.495
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 49.37
Std Dev 34.71
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

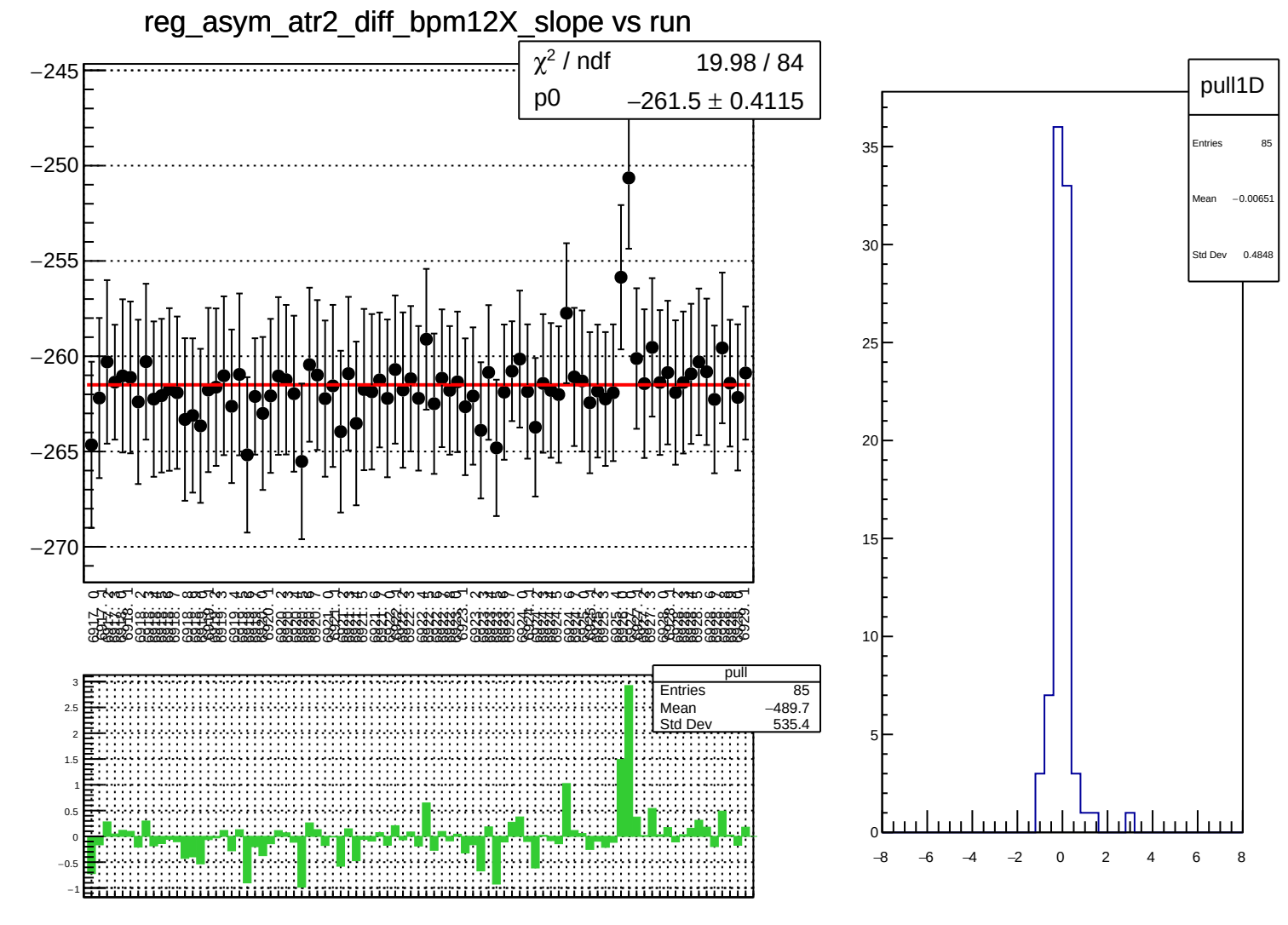

pull1D
Entries 85
Mean 0.011
Std Dev 0.2529
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

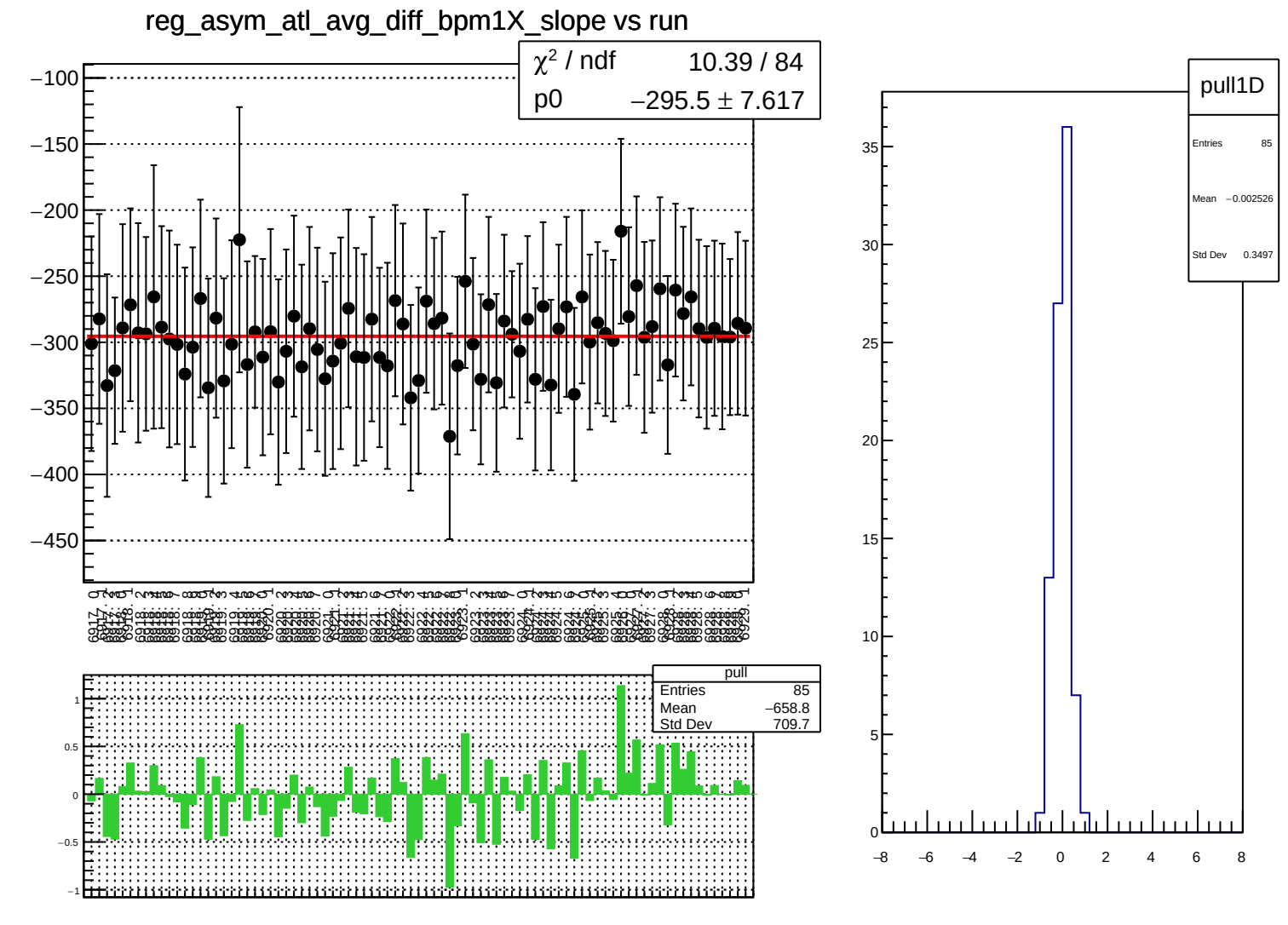

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 7.119 / 84
p0 563.5 ± 11.46
pull
Entries 85
Mean −206.2
Std Dev 254.5

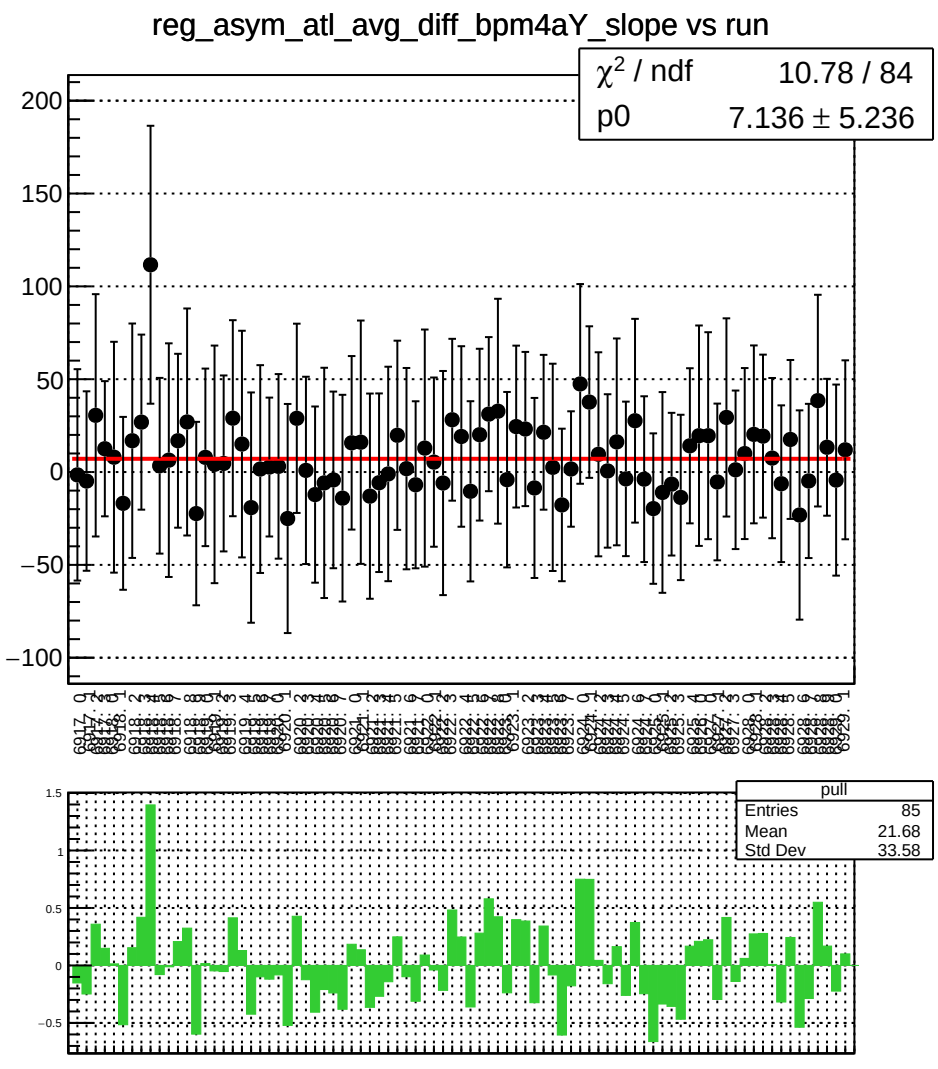

pull1D
Entries 85
Mean 0.003406
Std Dev 0.2894

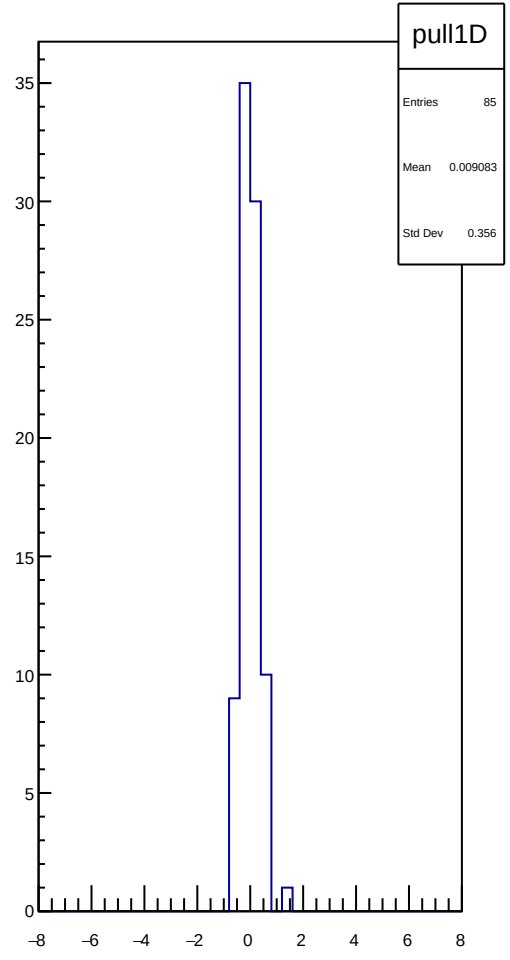

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 5.255 / 84
p0 130.2 ± 9.638
pull
Entries 85
Mean 65.45
Std Dev 45.32

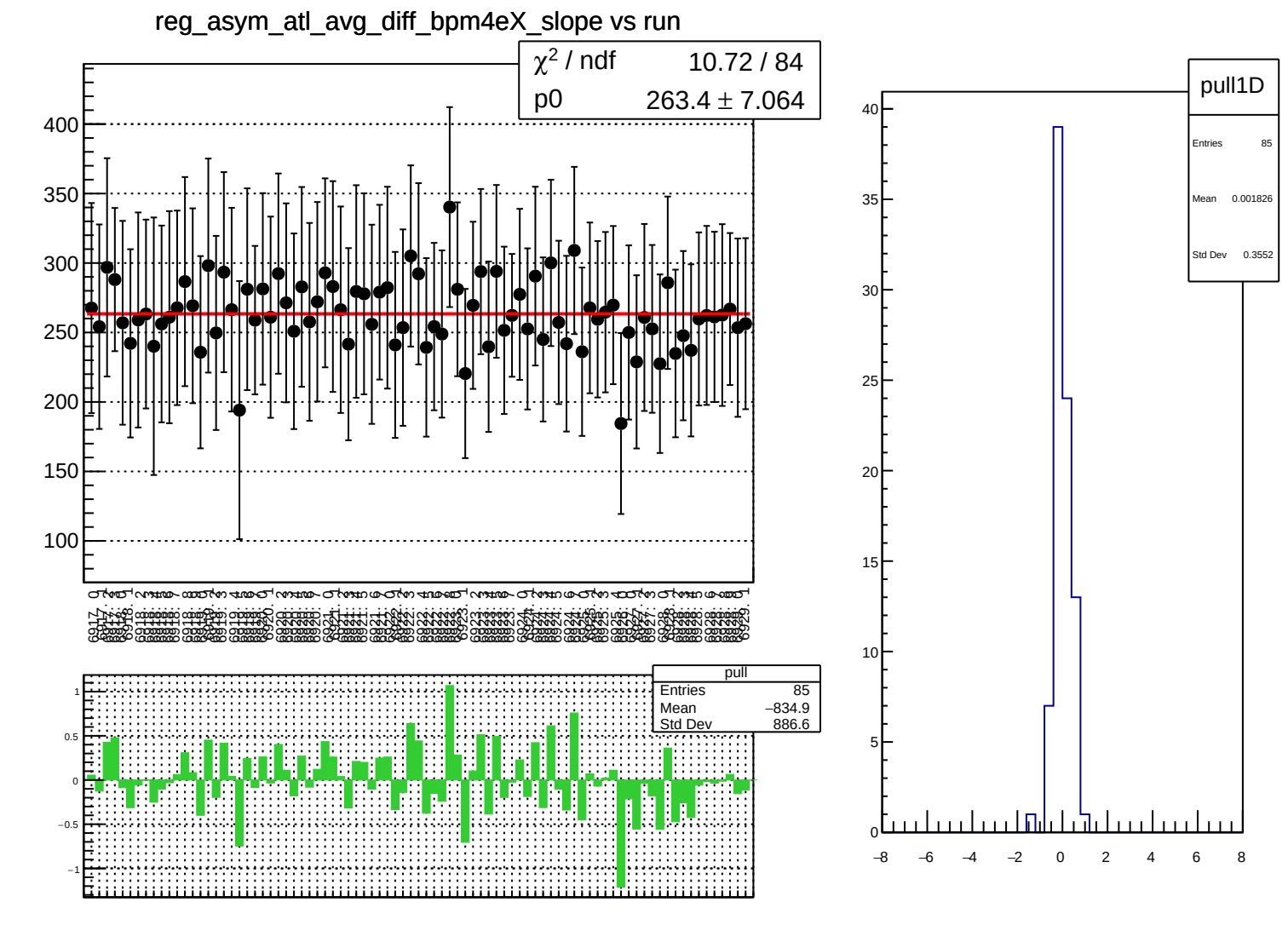

pull1D
Entries 85
Mean −0.008868
Std Dev 0.2485

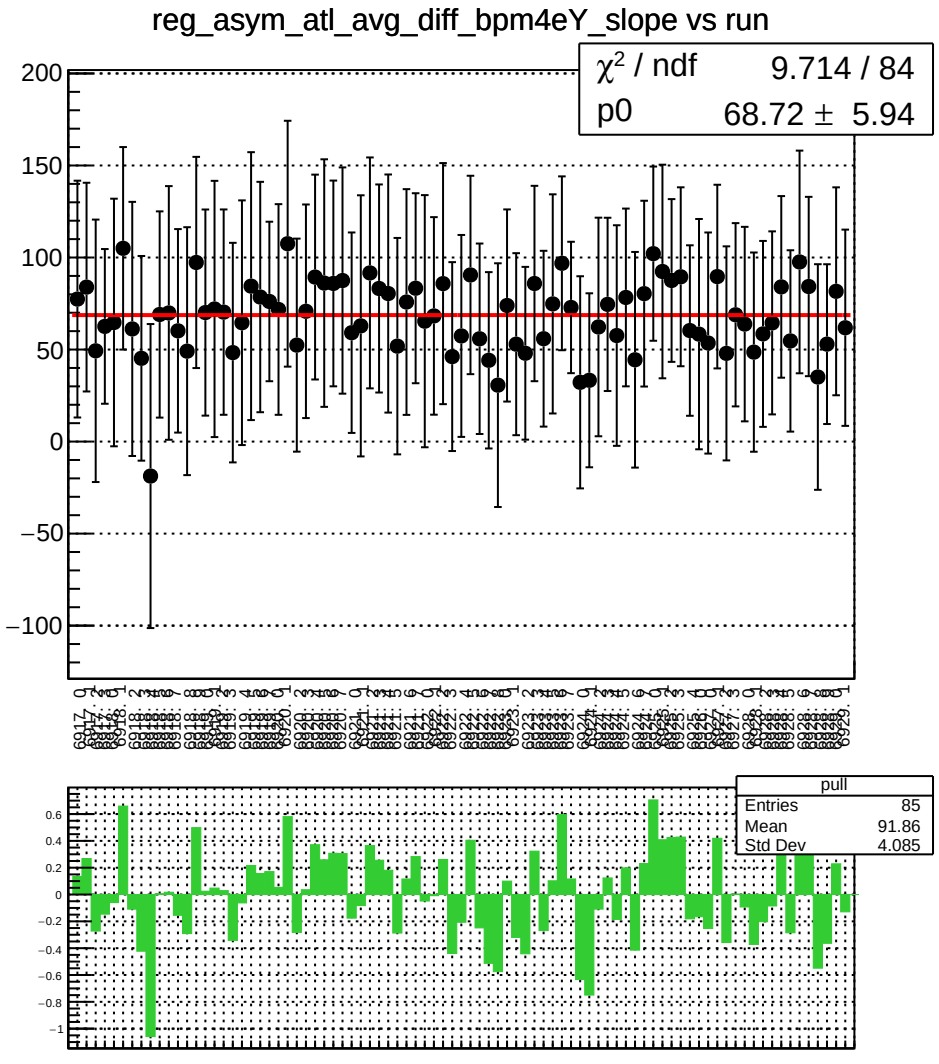

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 19.98 / 84
p0 −261.5 ± 0.4115
−245
−250
−255
−260
−265
−270
pull
Entries 85
Mean −489.7
Std Dev 535.4
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.00651
Std Dev 0.4848
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

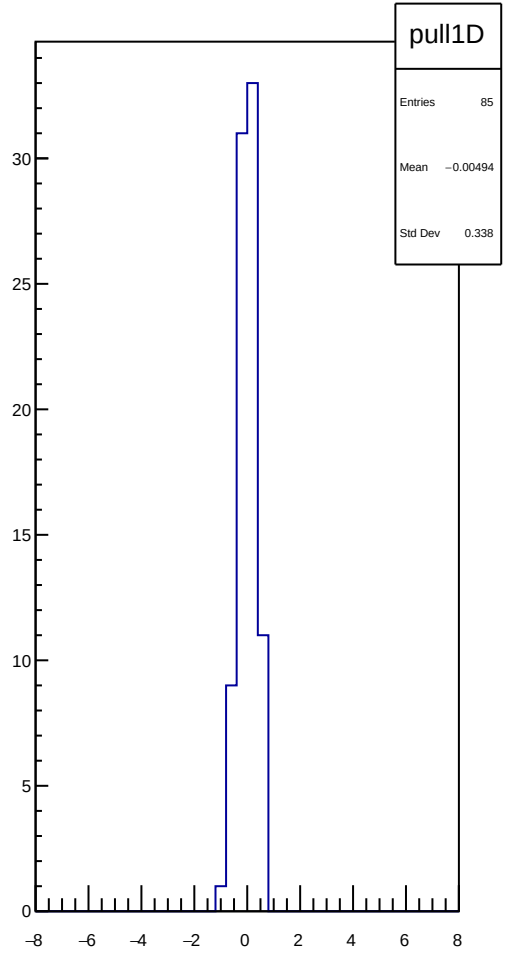

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 10.39 / 84
p0 −295.5 ± 7.617
pull
Entries 85
Mean −658.8
Std Dev 709.7
pull1D
Entries 85
Mean −0.002526
Std Dev 0.3497

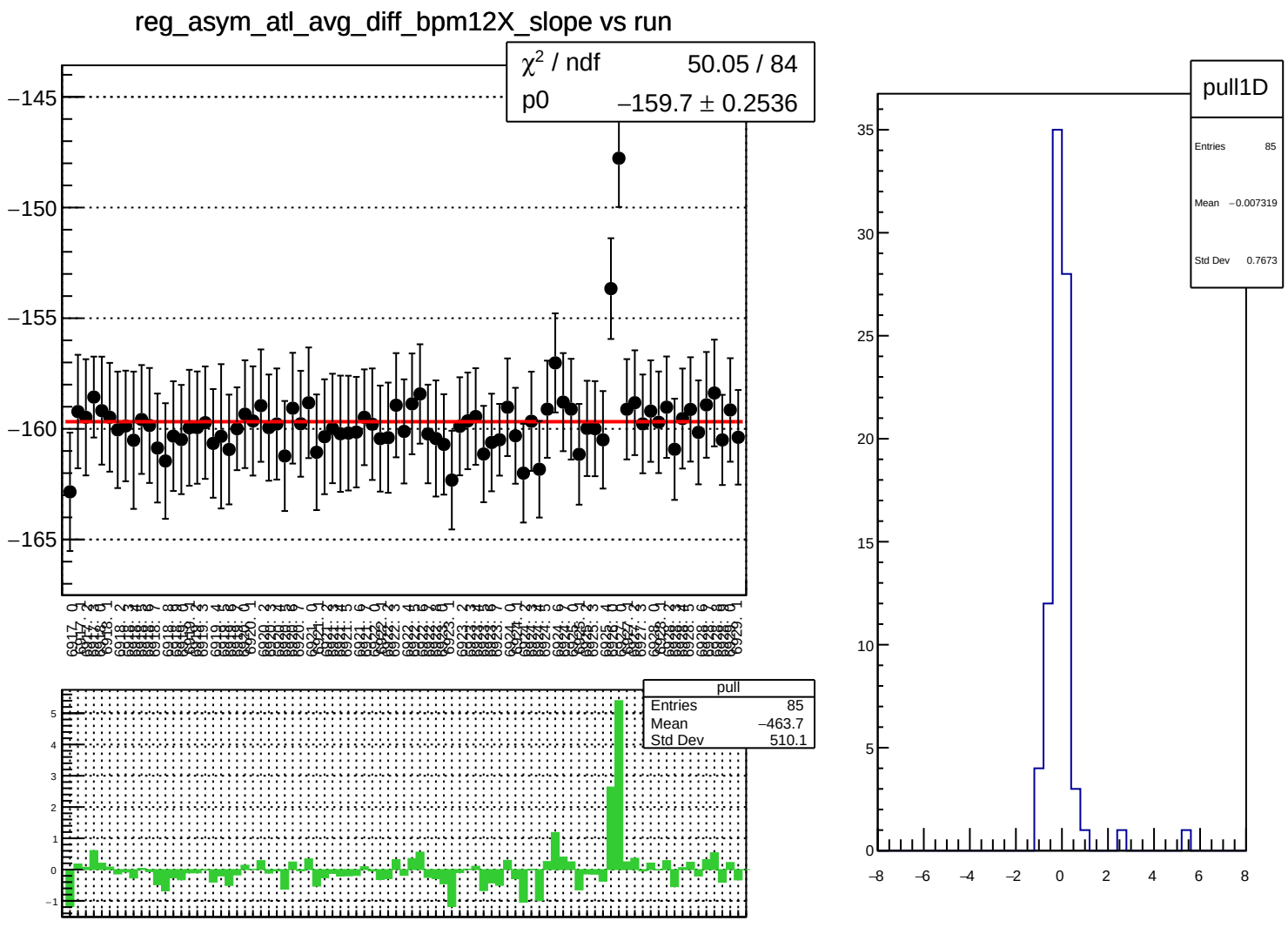

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.78 / 84
p0 7.136 ± 5.236
pull
Entries 85
Mean 21.68
Std Dev 33.58

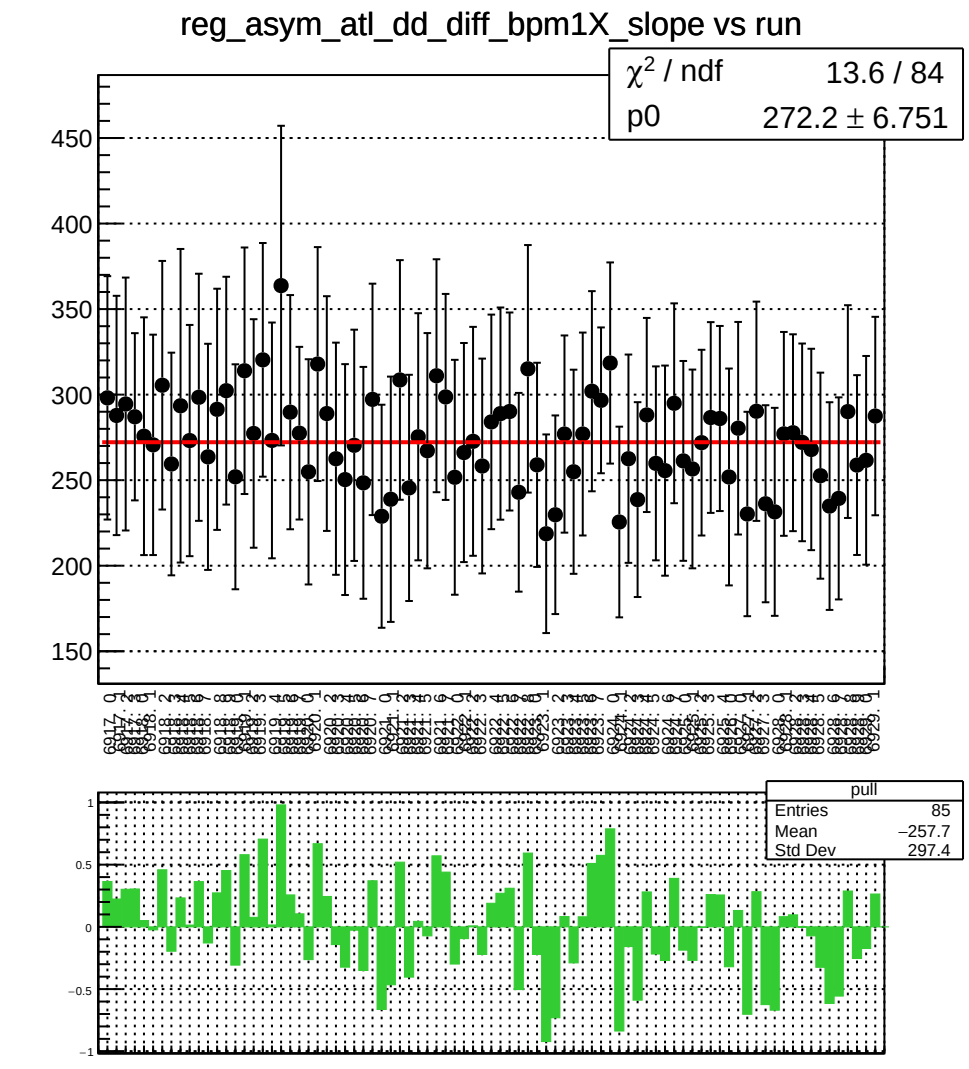

pull1D
Entries 85
Mean 0.009083
Std Dev 0.356

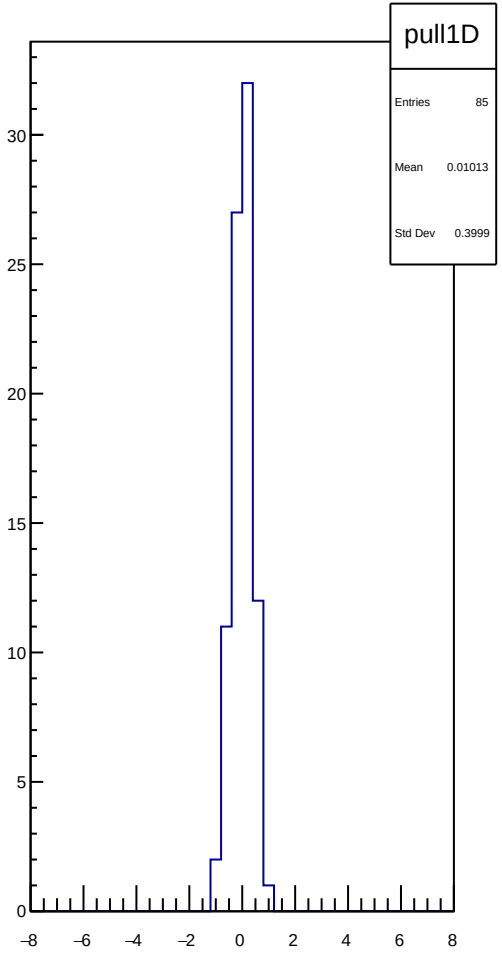

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.72 / 84
p0 263.4 ± 7.064
pull
Entries 85
Mean −834.9
Std Dev 886.6
pull1D
Entries 85
Mean 0.001826
Std Dev 0.3552

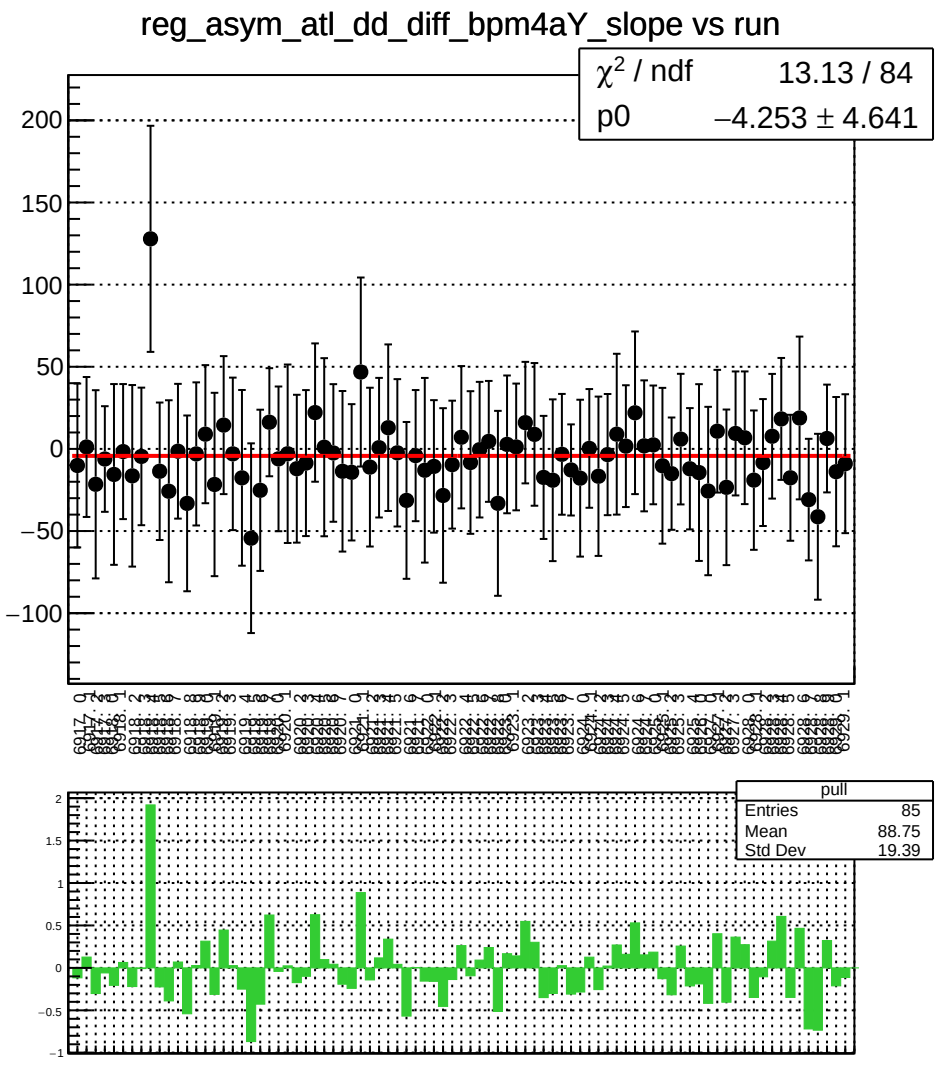

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.714 / 84
p0 68.72 ± 5.94
pull
Entries 85
Mean 91.86
Std Dev 4.085

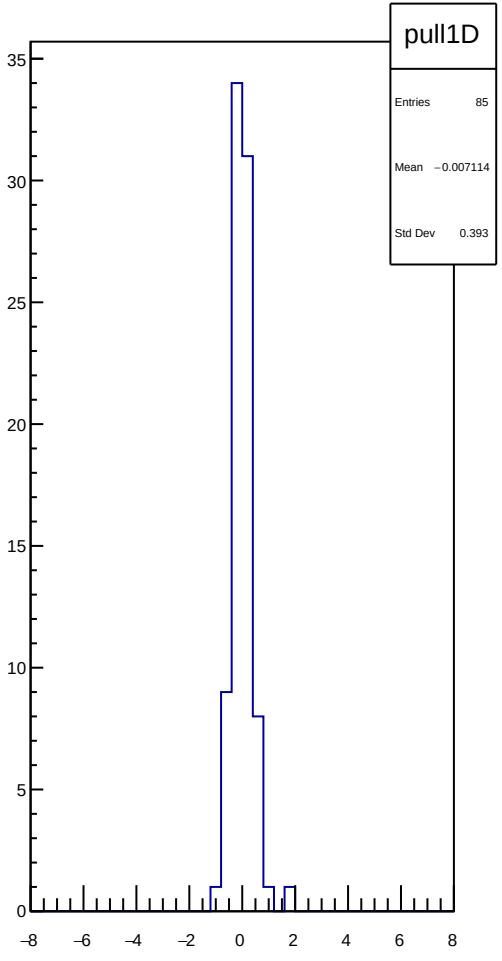

pull1D
Entries 85
Mean −0.00494
Std Dev 0.338

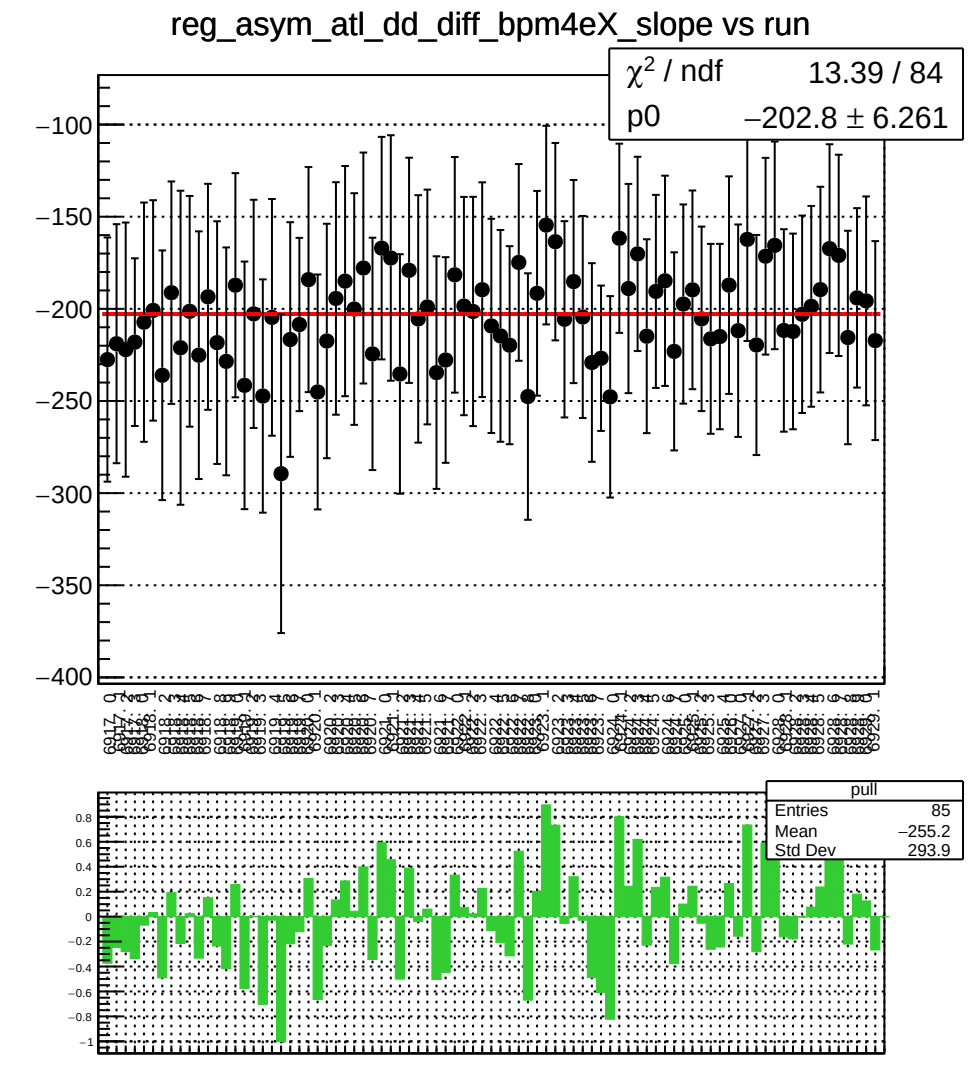

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 50.05 / 84
p0 −159.7 ± 0.2536
−145
−150
−155
−160
−165
pull
Entries 85
Mean −463.7
Std Dev 510.1
pull1D
Entries 85
Mean −0.007319
Std Dev 0.7673

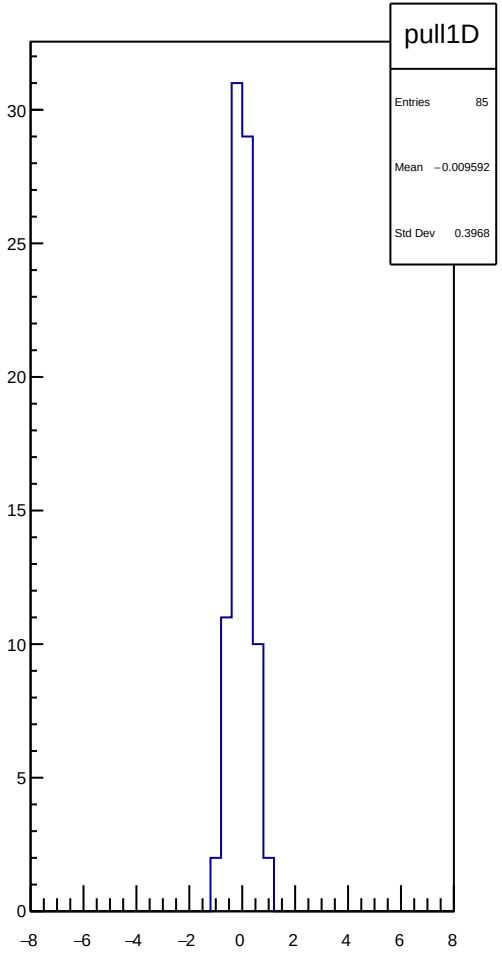

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 13.6 / 84
p0 272.2 ± 6.751
pull
Entries 85
Mean −257.7
Std Dev 297.4

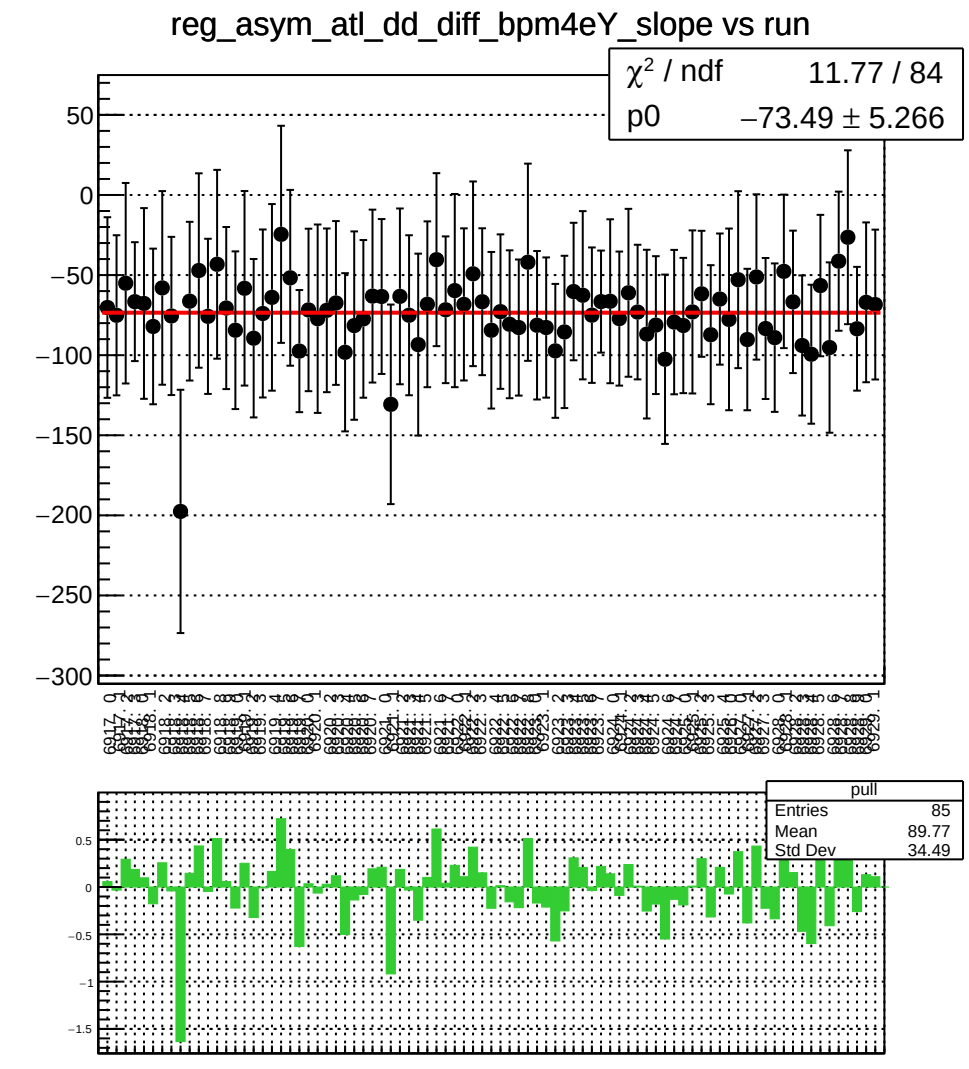

pull1D
Entries 85
Mean 0.01013
Std Dev 0.3999

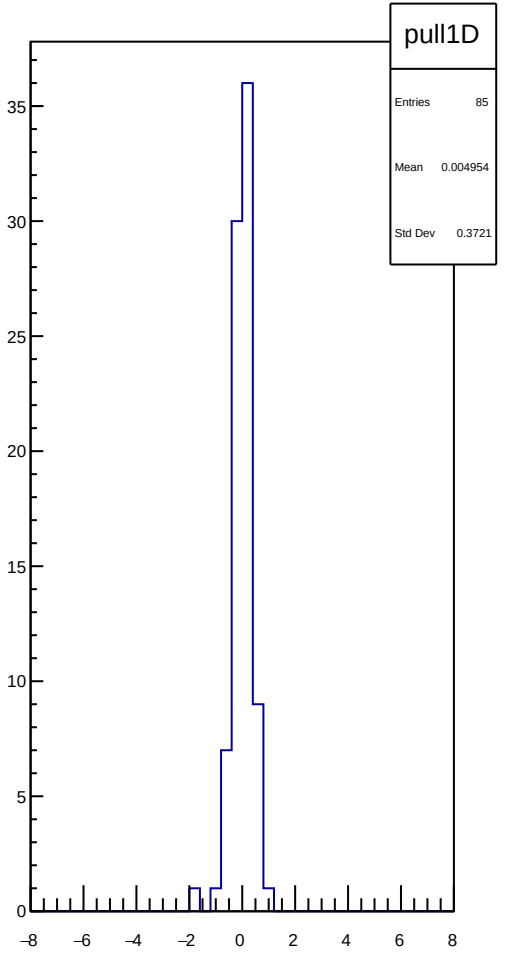

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.13 / 84
p0 −4.253 ± 4.641
pull
Entries 85
Mean 88.75
Std Dev 19.39

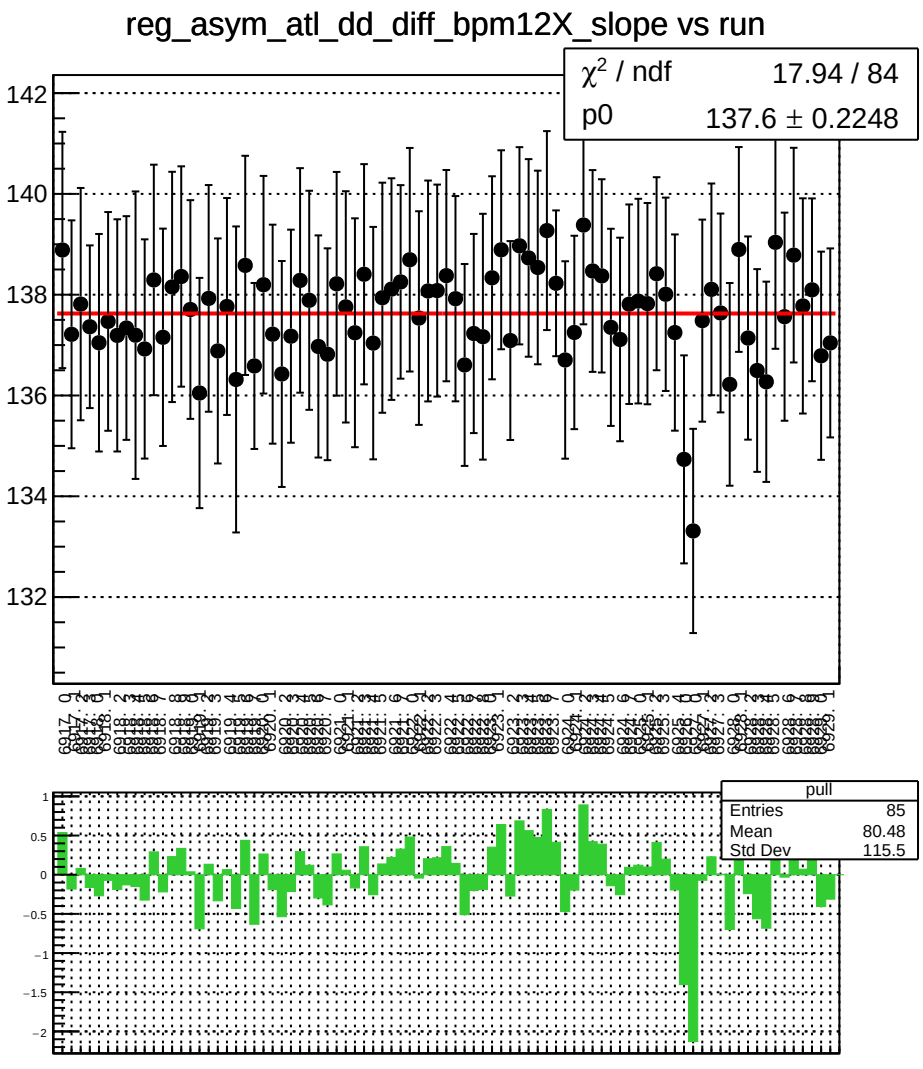

pull1D
Entries 85
Mean −0.007114
Std Dev 0.393

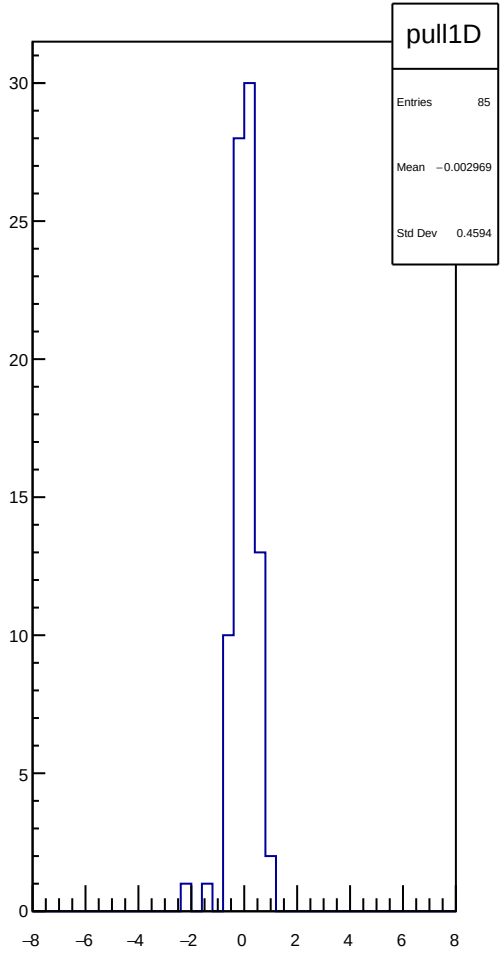

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.39 / 84
p0 −202.8 ± 6.261
pull
Entries 85
Mean −255.2
Std Dev 293.9

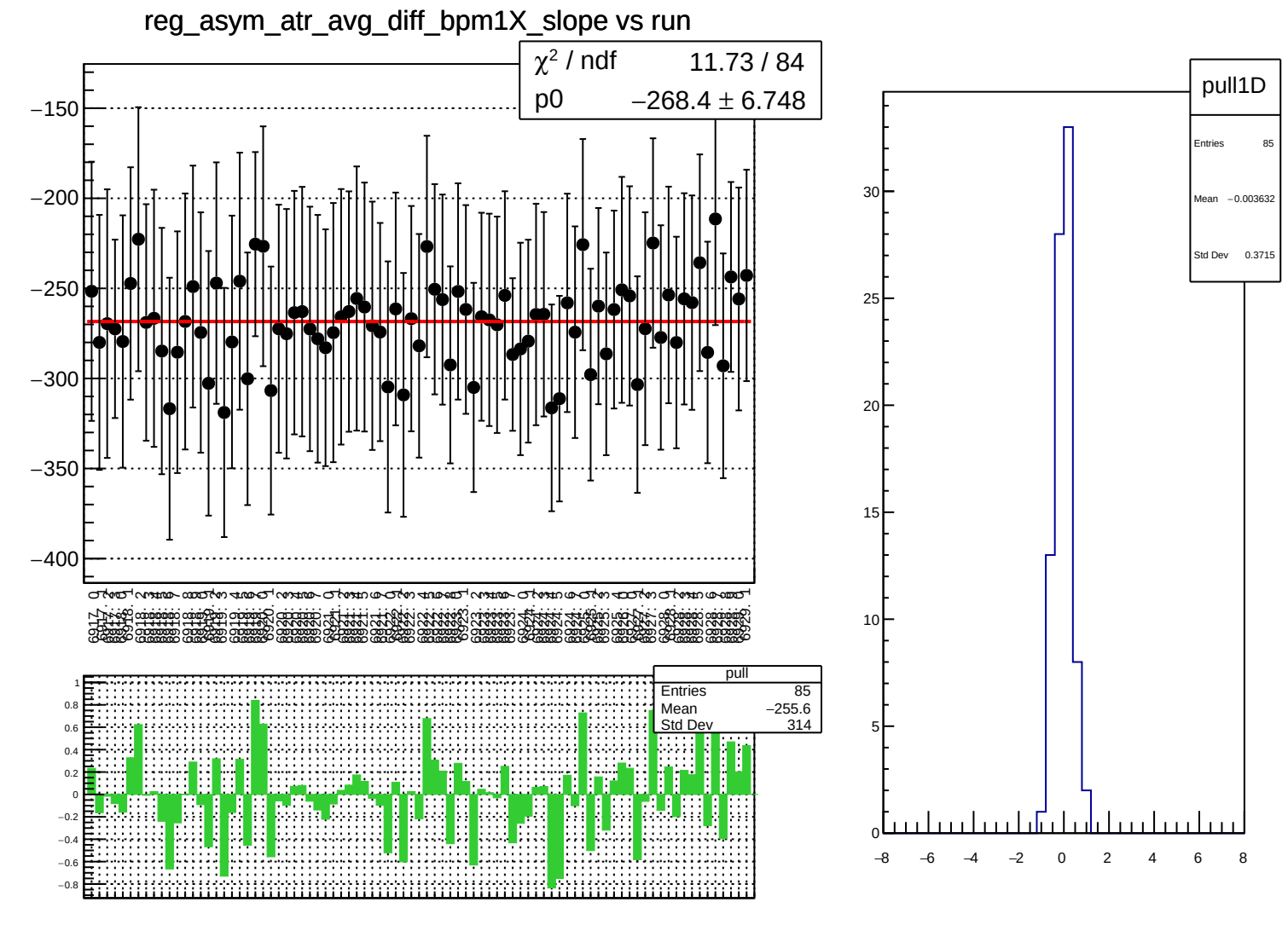

pull1D
Entries 85
Mean −0.009592
Std Dev 0.3968

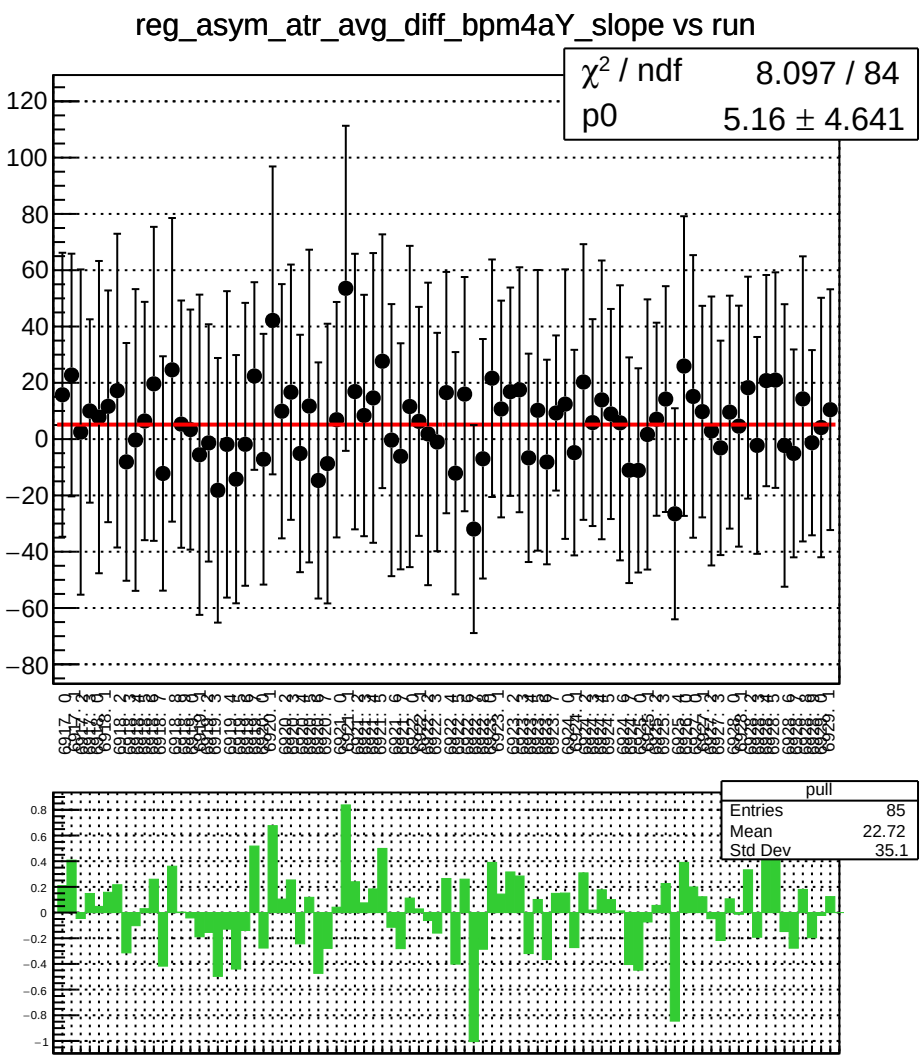

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.77 / 84
p0 −73.49 ± 5.266
pull
Entries 85
Mean 89.77
Std Dev 34.49

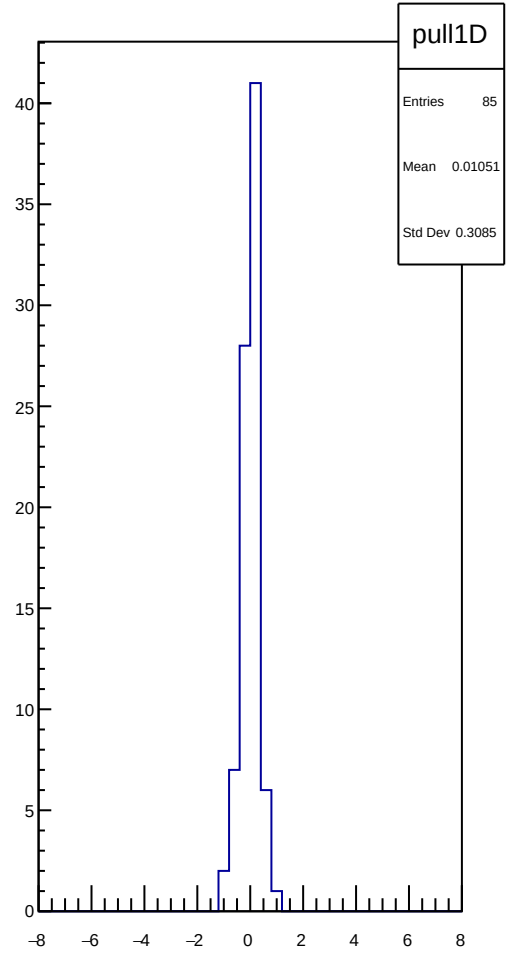

pull1D
Entries 85
Mean 0.004954
Std Dev 0.3721

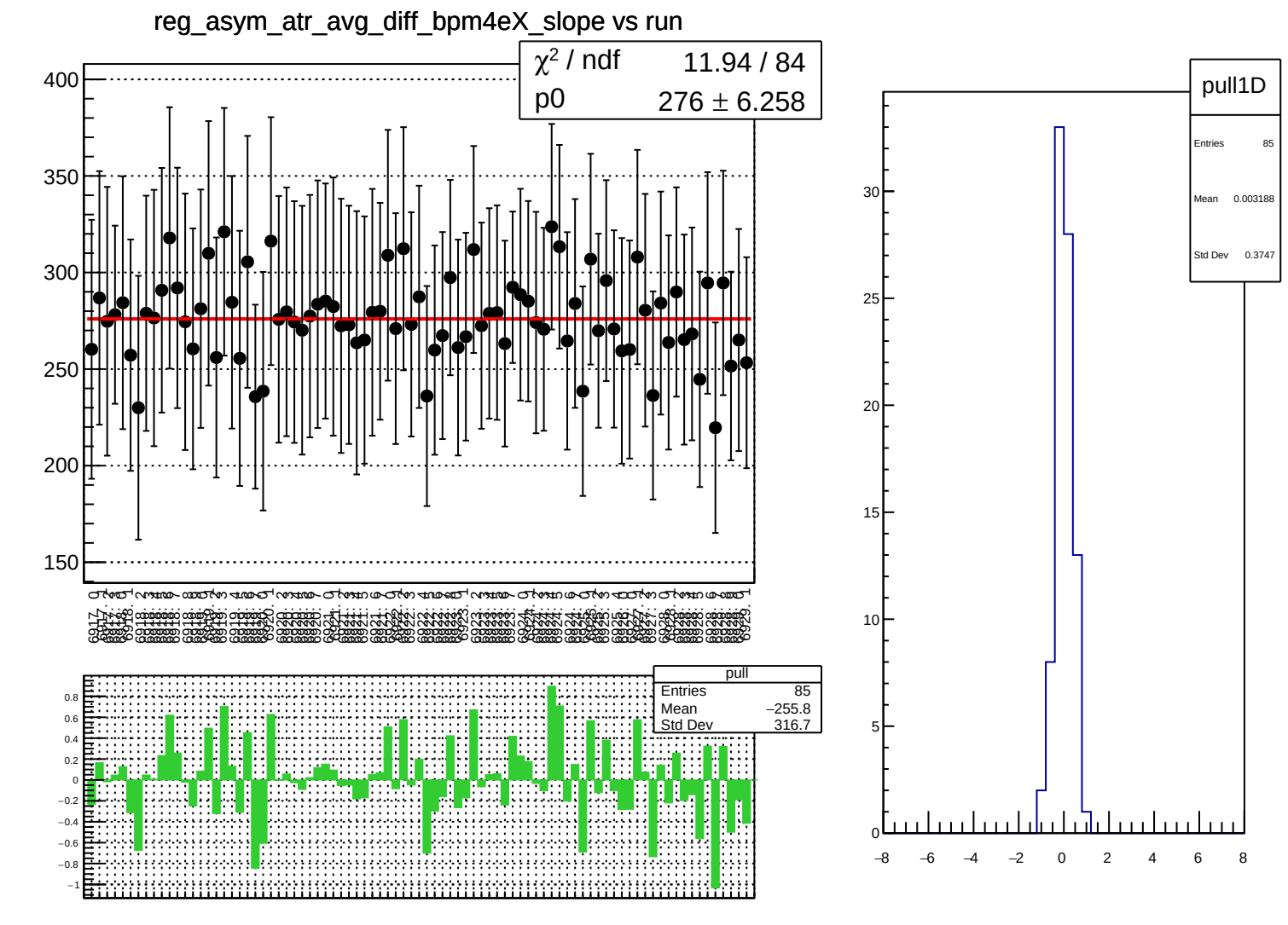

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 17.94 / 84
p0 137.6 ± 0.2248
142
140
138
136
134
132
pull
Entries 85
Mean 80.48
Std Dev 115.5
1
0.5
0
−0.5
−1
−1.5
−2

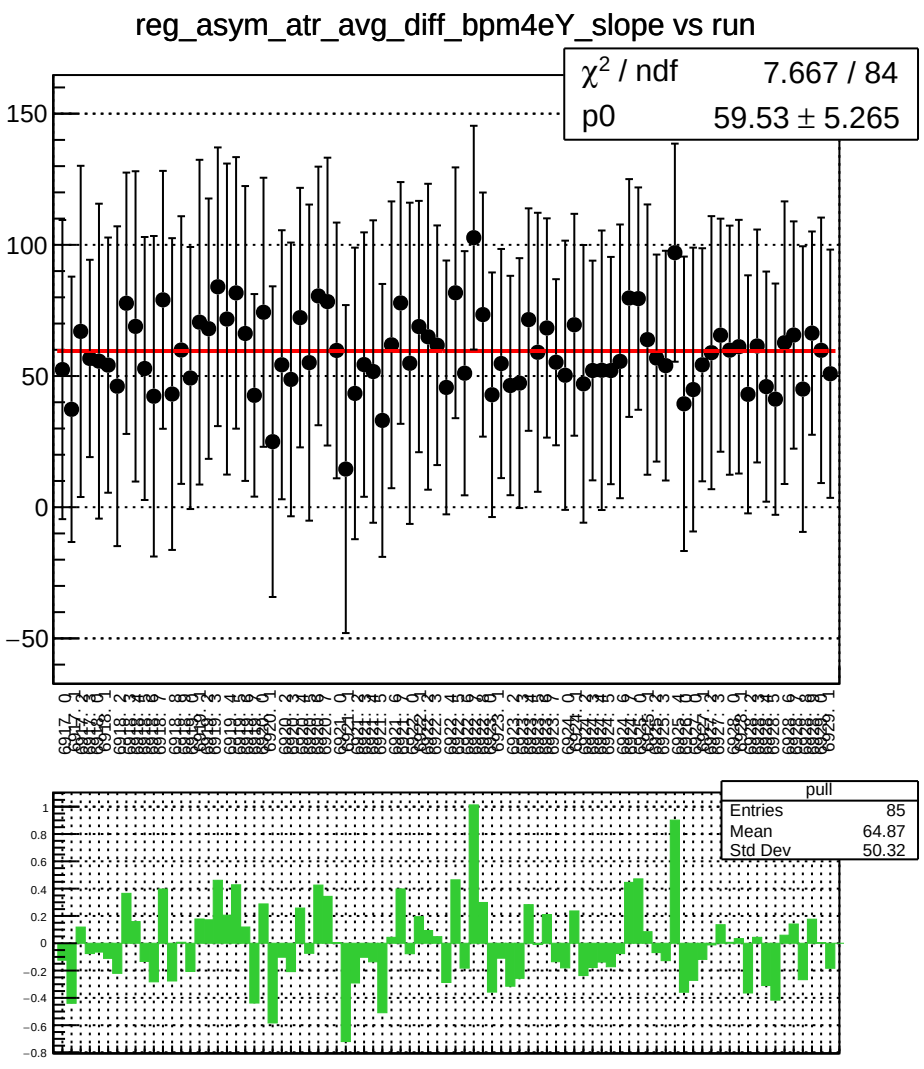

pull1D
Entries 85
Mean −0.002969
Std Dev 0.4594
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

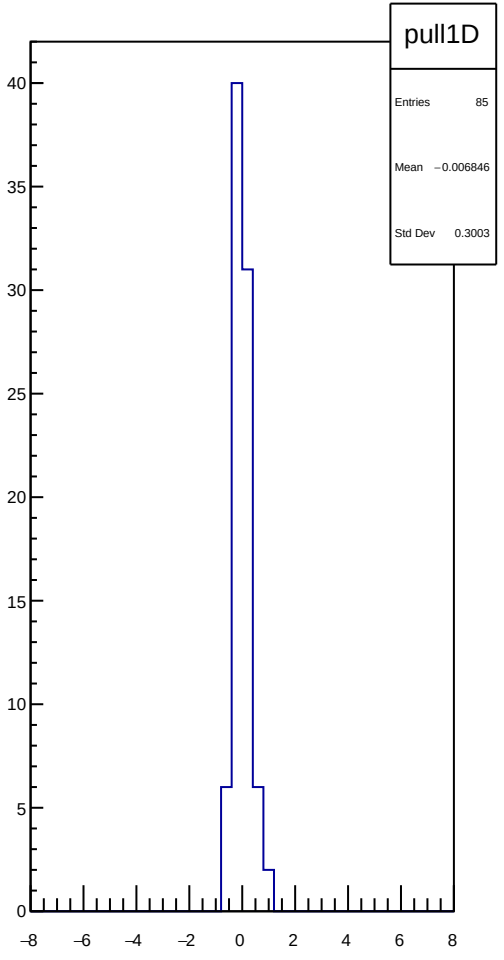

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 11.73 / 84
p0 −268.4 ± 6.748
−150
−200
−250
−300
−350
−400
pull
Entries 85
Mean −255.6
Std Dev 314
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean −0.003632
Std Dev 0.3715
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

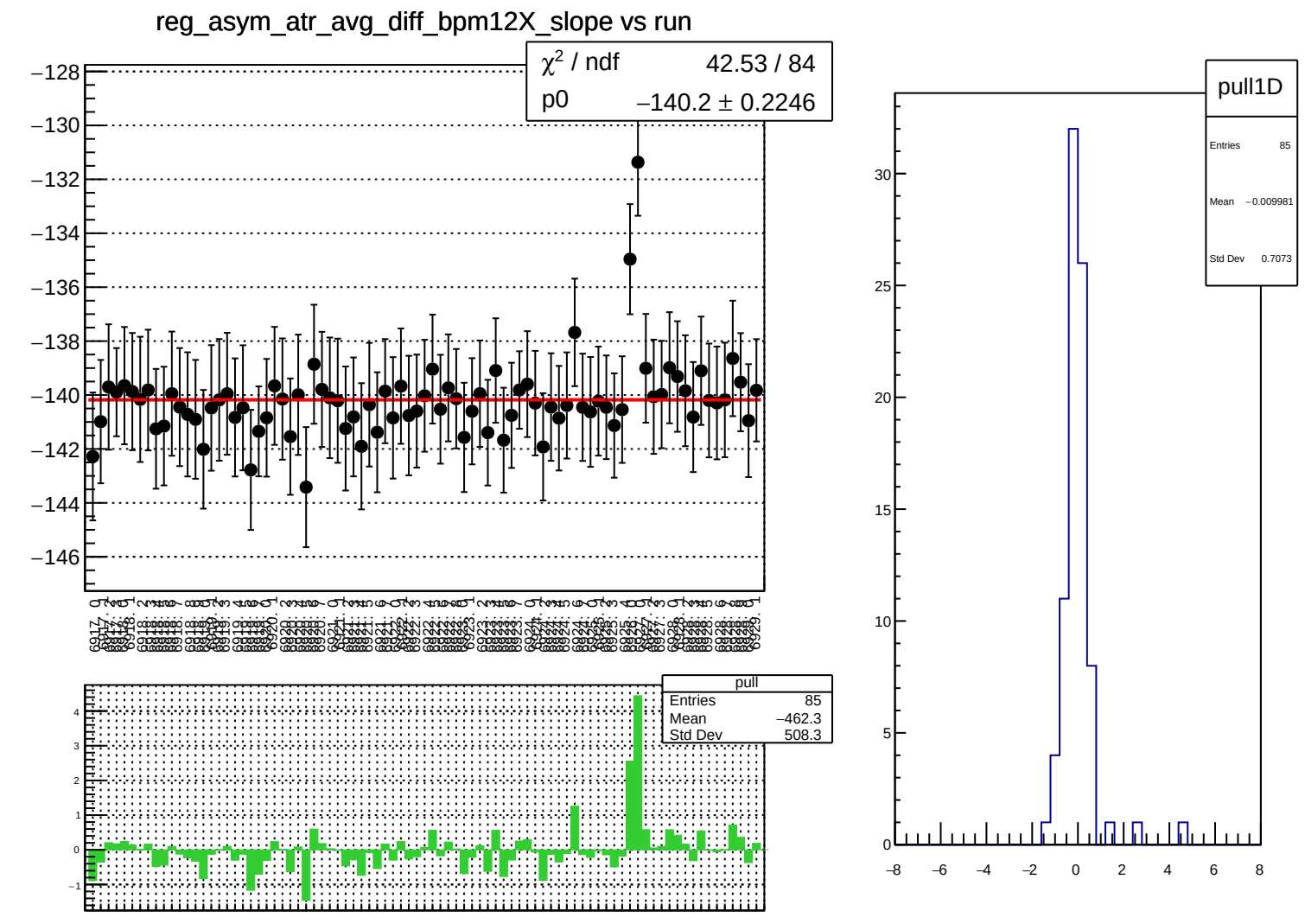

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.097 / 84
p0 5.16 ± 4.641
pull
Entries 85
Mean 22.72
Std Dev 35.1

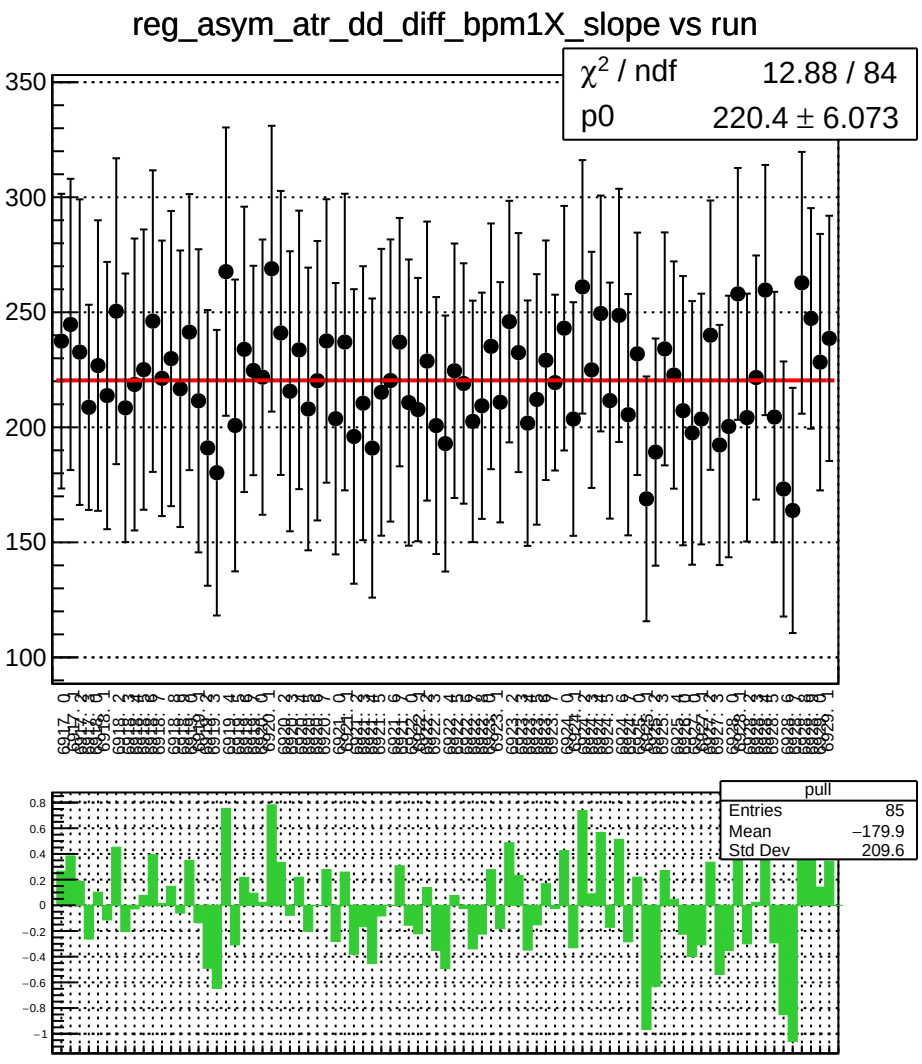

pull1D
Entries 85
Mean 0.01051
Std Dev 0.3085

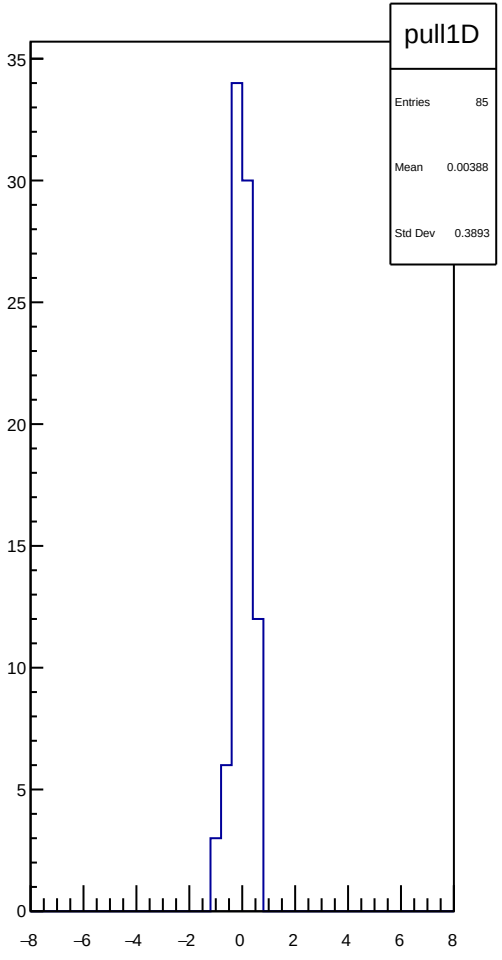

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.94 / 84
p0 276 ± 6.258
400
350
300
250
200
150
pull
Entries 85
Mean −255.8
Std Dev 316.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 85
Mean 0.003188
Std Dev 0.3747
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

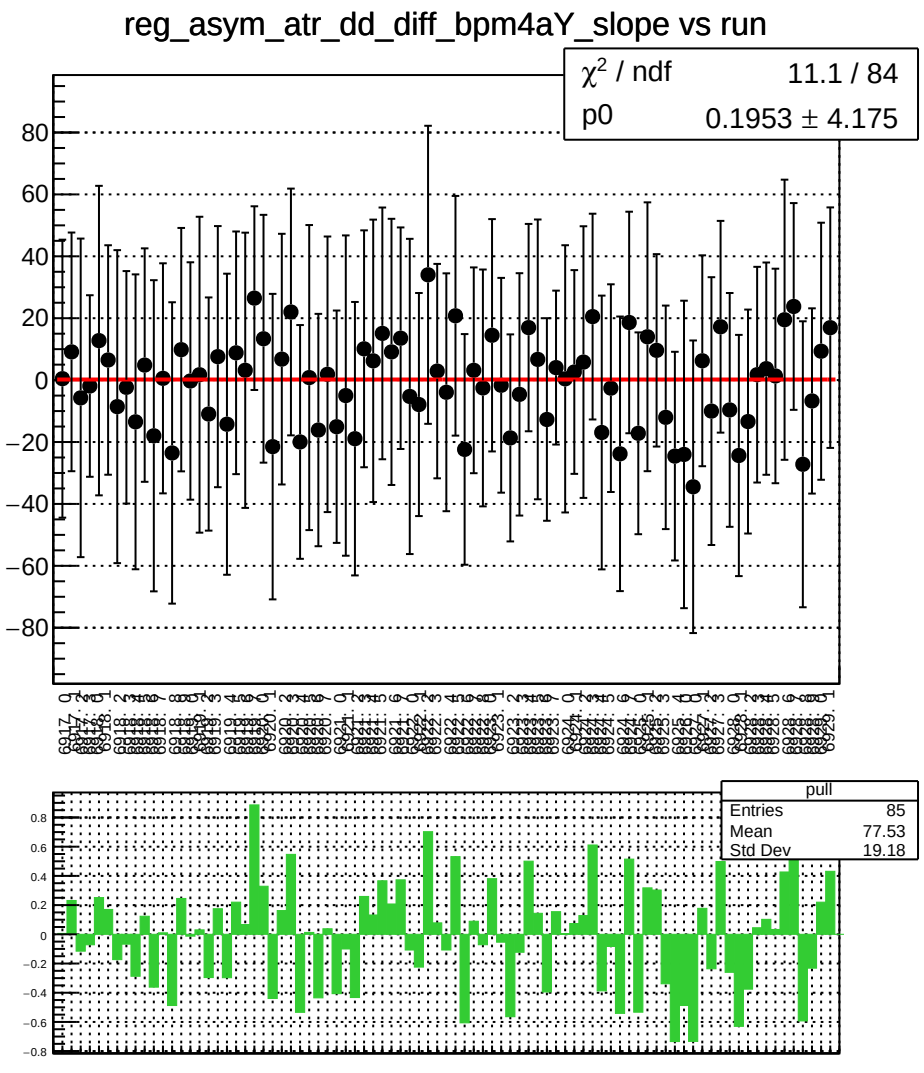

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.667 / 84
p0 59.53 ± 5.265
150
100
50
0
−50
pull
Entries 85
Mean 64.87
Std Dev 50.32
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

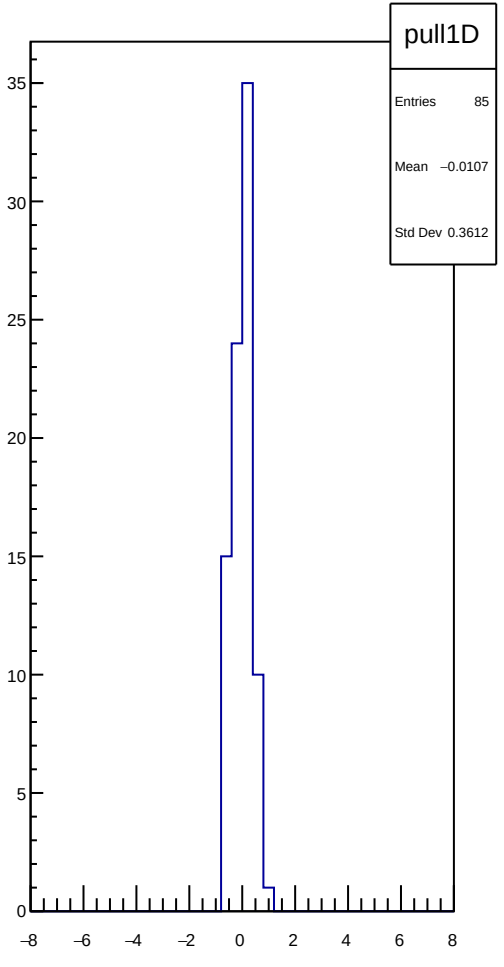

pull1D
Entries 85
Mean −0.006846
Std Dev 0.3003
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

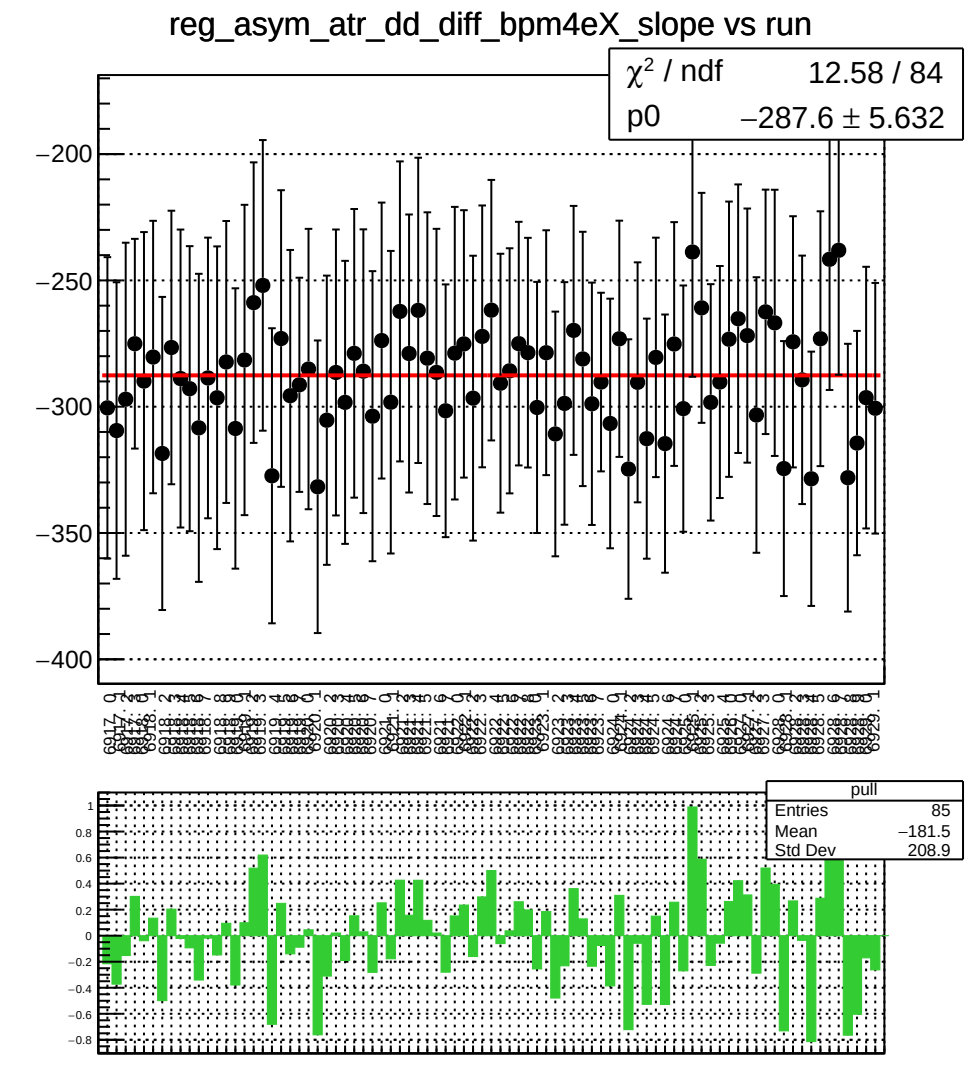

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 42.53 / 84
p0 −140.2 ± 0.2246
pull
Entries 85
Mean −462.3
Std Dev 508.3
pull1D
Entries 85
Mean −0.009981
Std Dev 0.7073

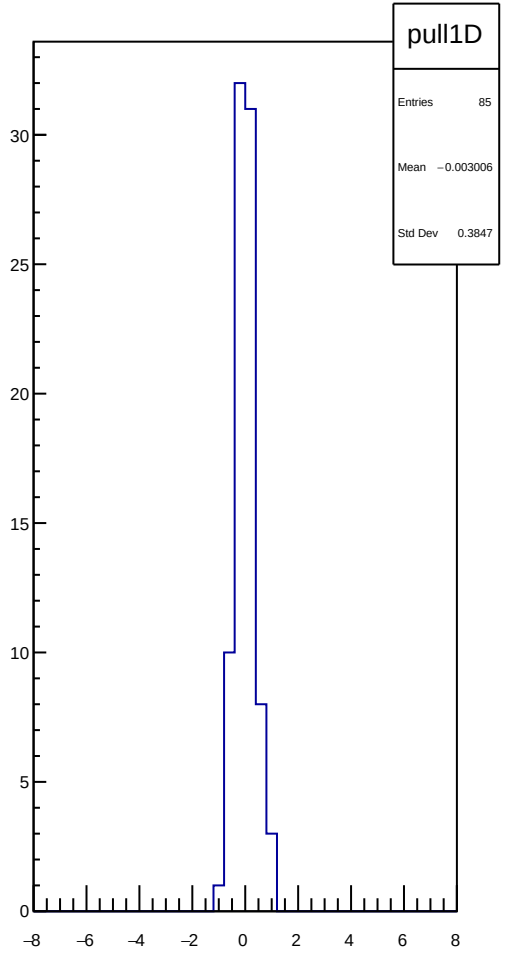

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 12.88 / 84
p0 220.4 ± 6.073
pull
Entries 85
Mean −179.9
Std Dev 209.6

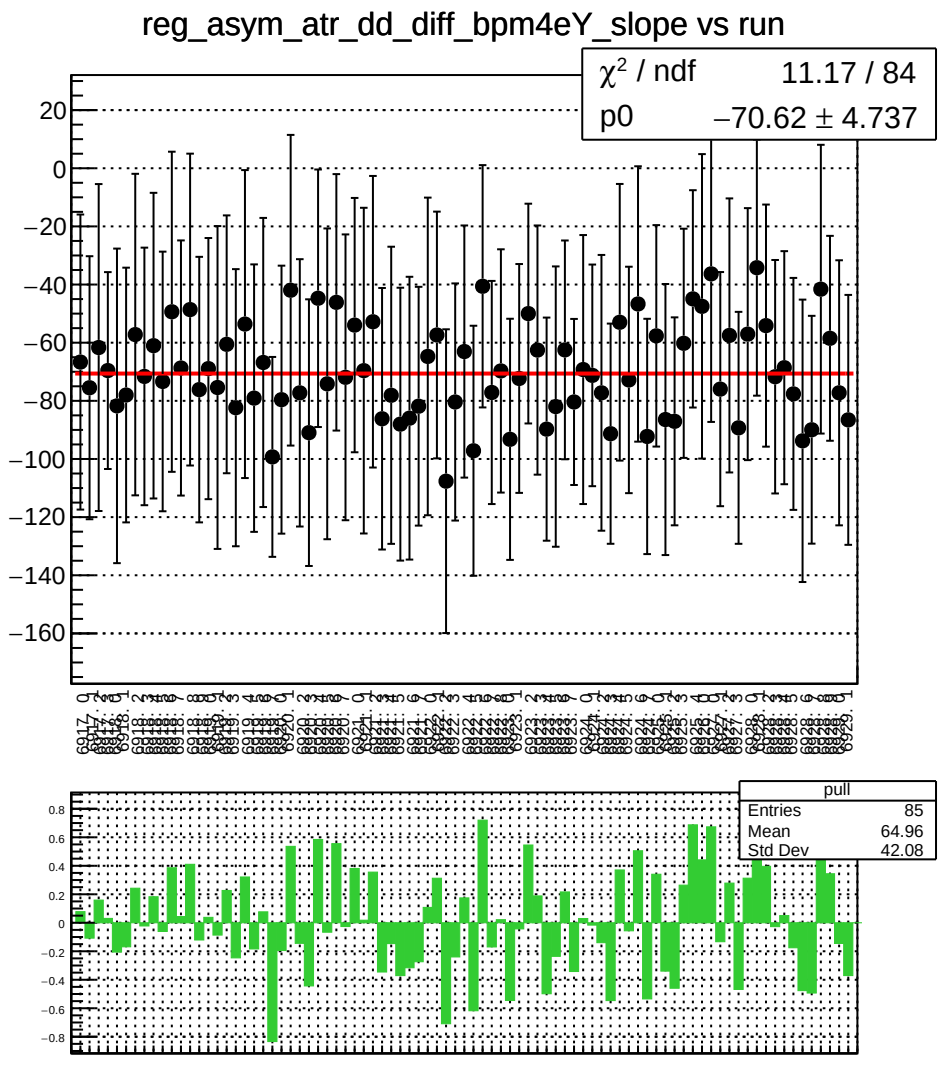

pull1D
Entries 85
Mean 0.00388
Std Dev 0.3893

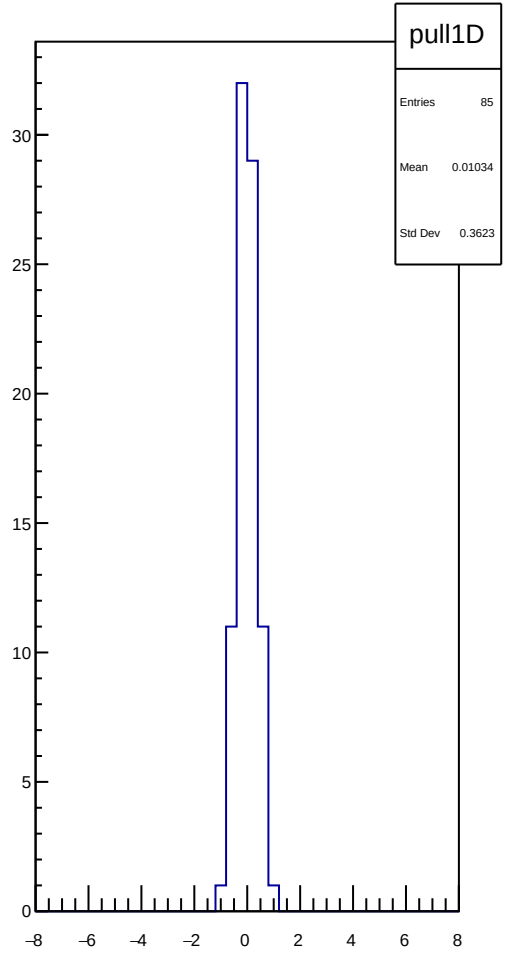

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.1 / 84
p0 0.1953 ± 4.175
pull
Entries 85
Mean 77.53
Std Dev 19.18

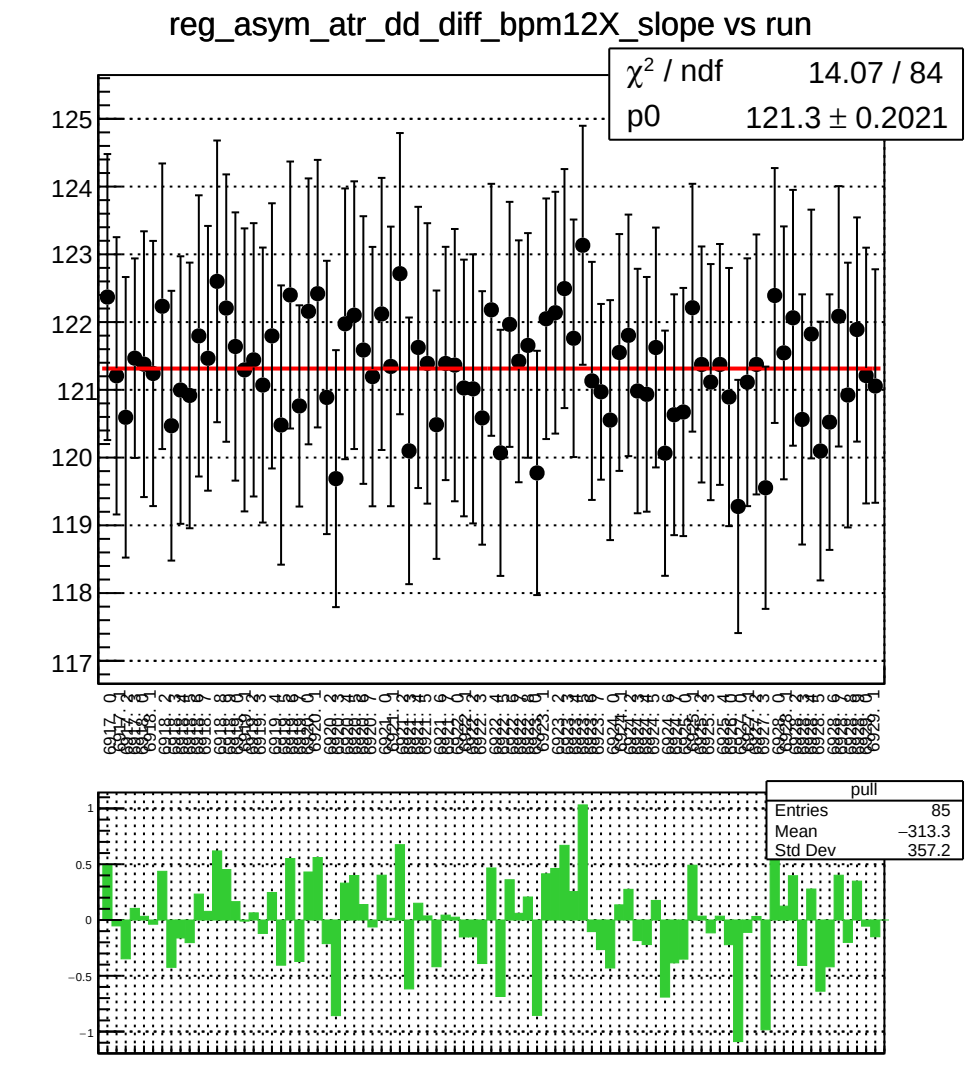

pull1D
Entries 85
Mean −0.0107
Std Dev 0.3612

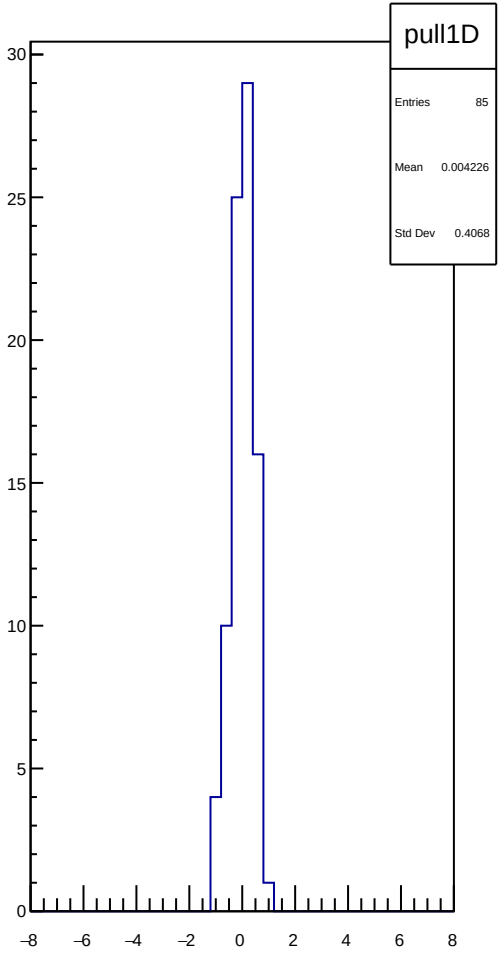

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.58 / 84
p0 −287.6 ± 5.632
−200
−250
−300
−350
−400
pull
Entries 85
Mean −181.5
Std Dev 208.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

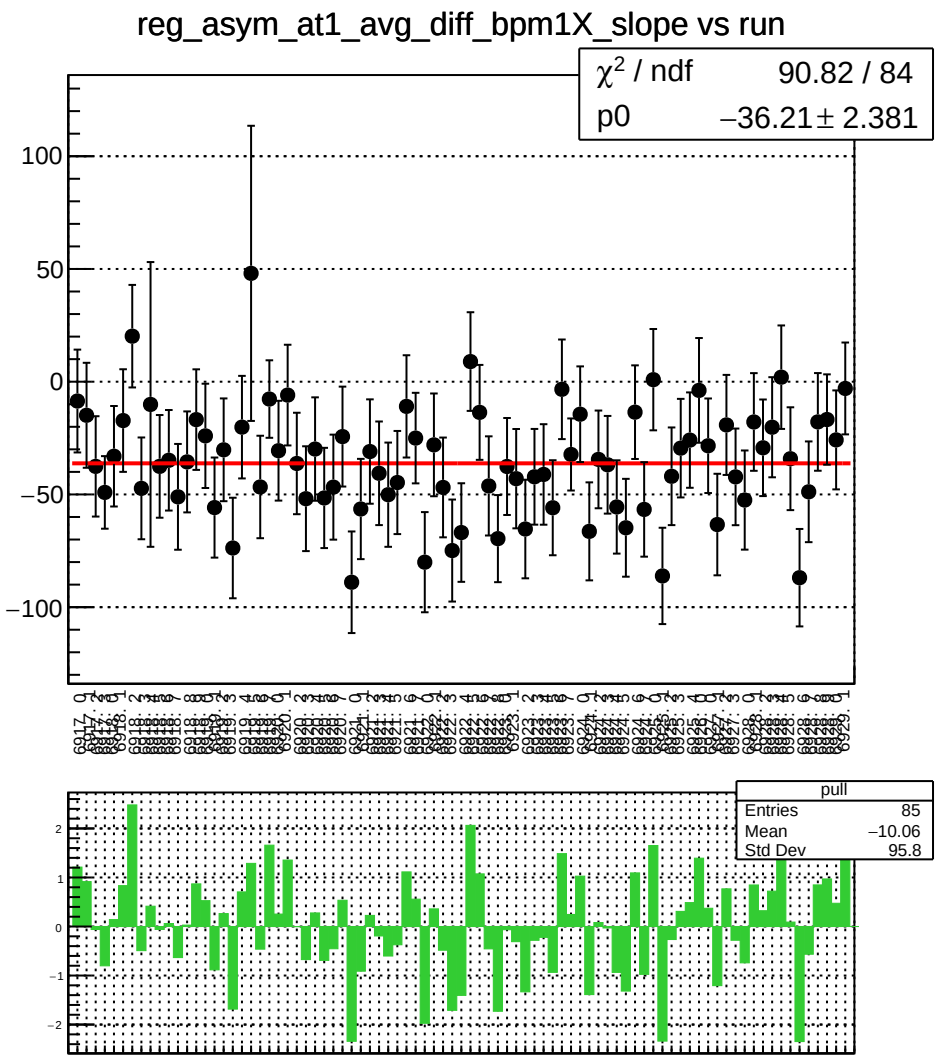

pull1D
Entries 85
Mean −0.003006
Std Dev 0.3847
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

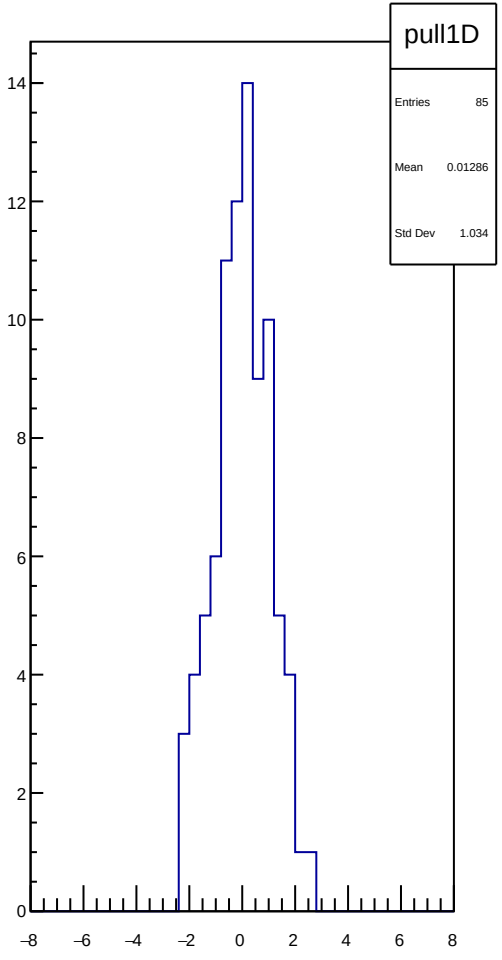

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.17 / 84
p0 −70.62 ± 4.737
pull
Entries 85
Mean 64.96
Std Dev 42.08

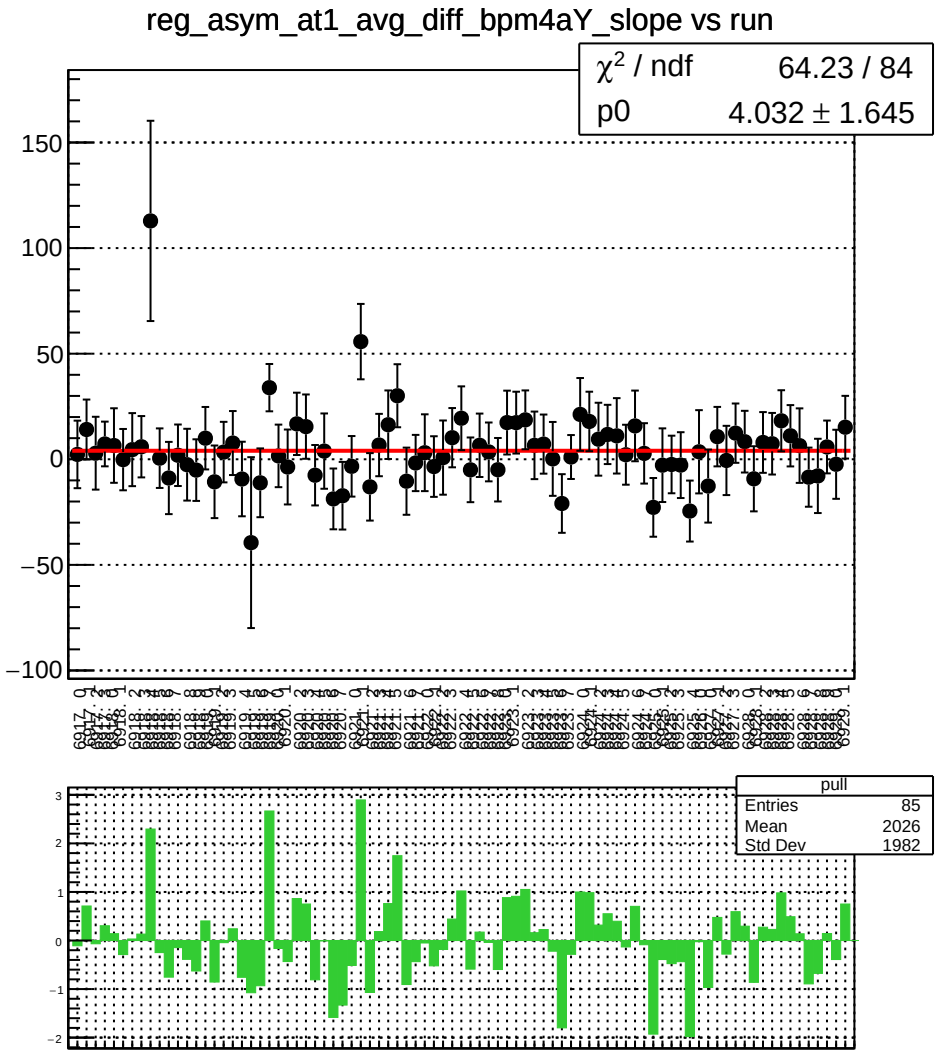

pull1D
Entries 85
Mean 0.01034
Std Dev 0.3623

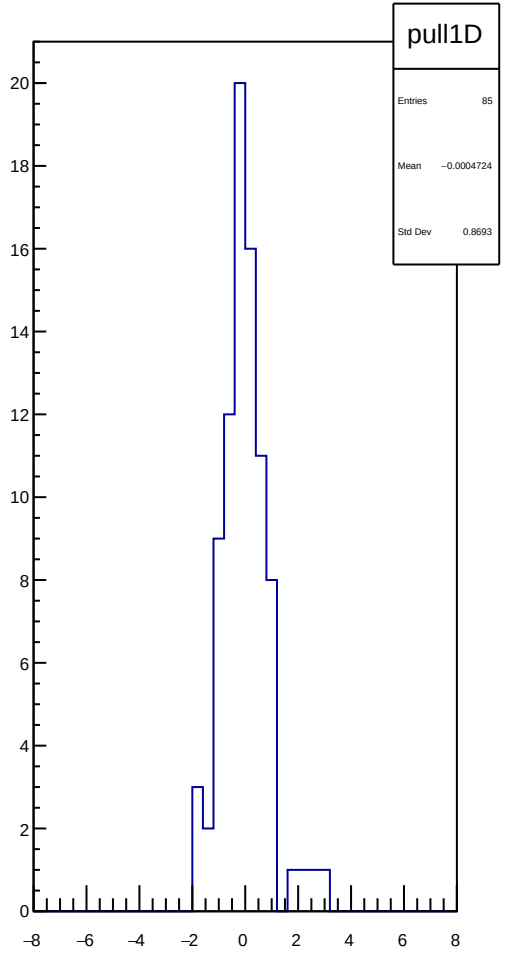

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 14.07 / 84
p0 121.3 ± 0.2021
pull
Entries 85
Mean −313.3
Std Dev 357.2

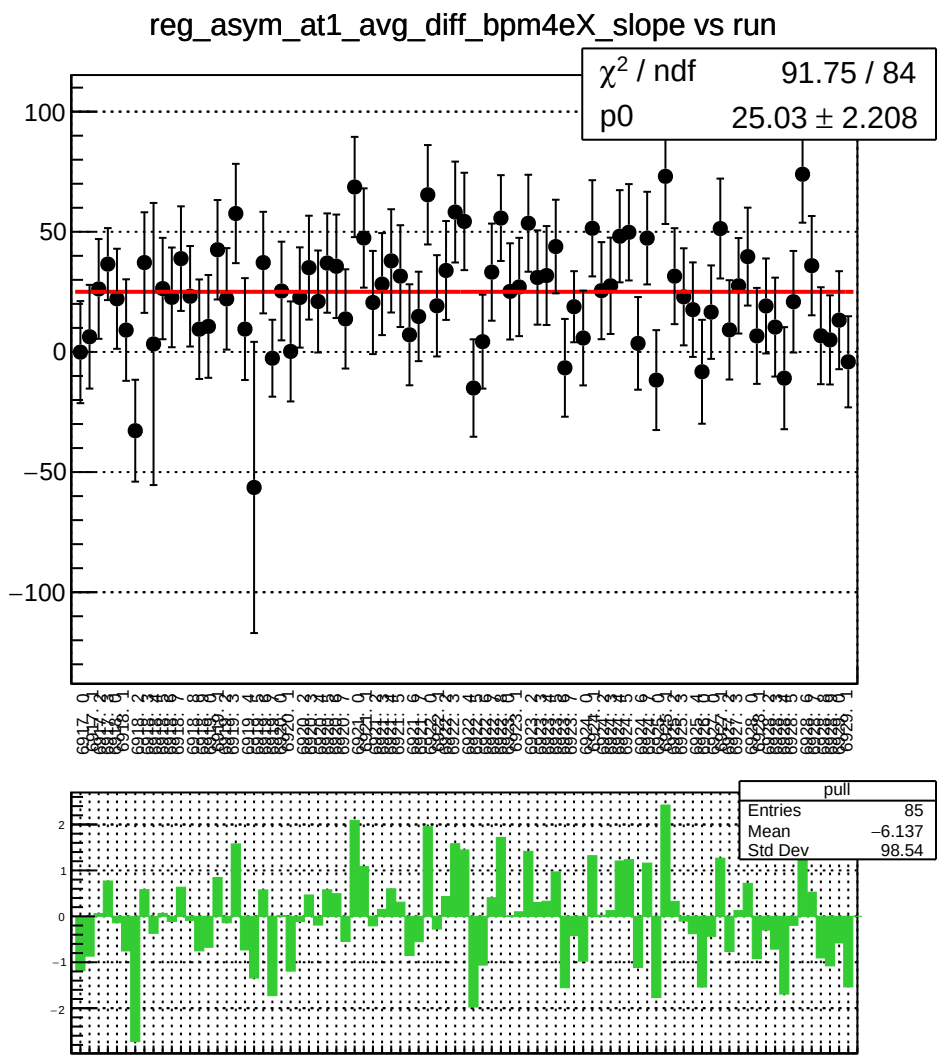

pull1D
Entries 85
Mean 0.004226
Std Dev 0.4068

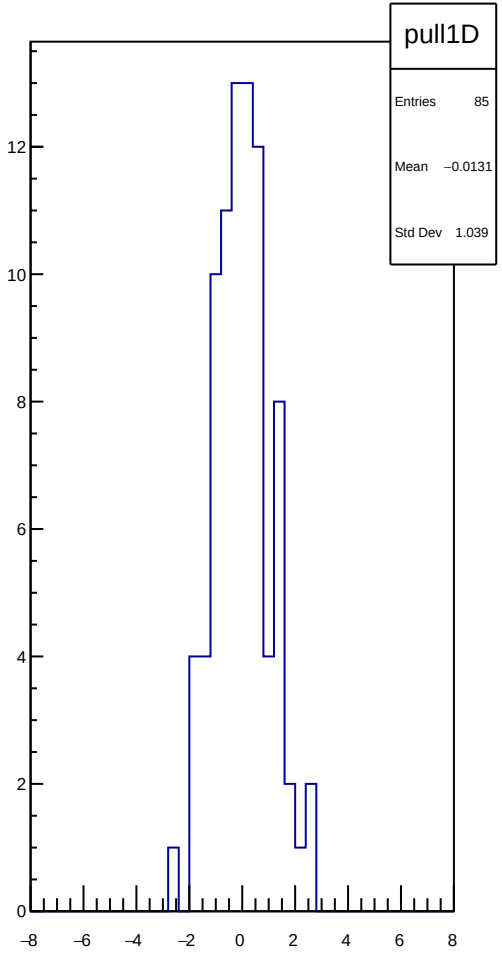

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 90.82 / 84
p0 −36.21 ± 2.381
100
50
0
−50
−100
pull
Entries 85
Mean −10.06
Std Dev 95.8
2
1
0
−1
−2

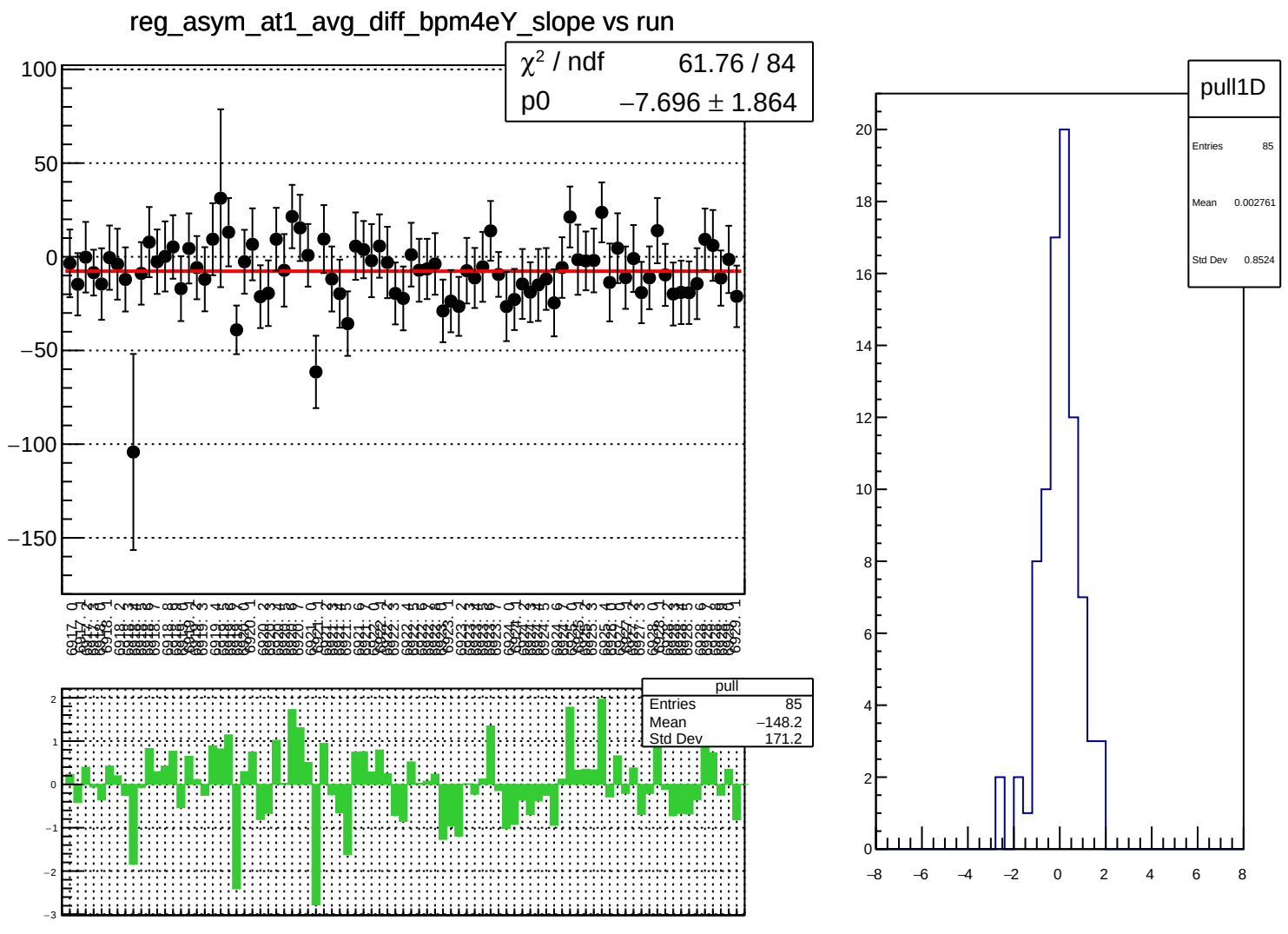

pull1D
Entries 85
Mean 0.01286
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

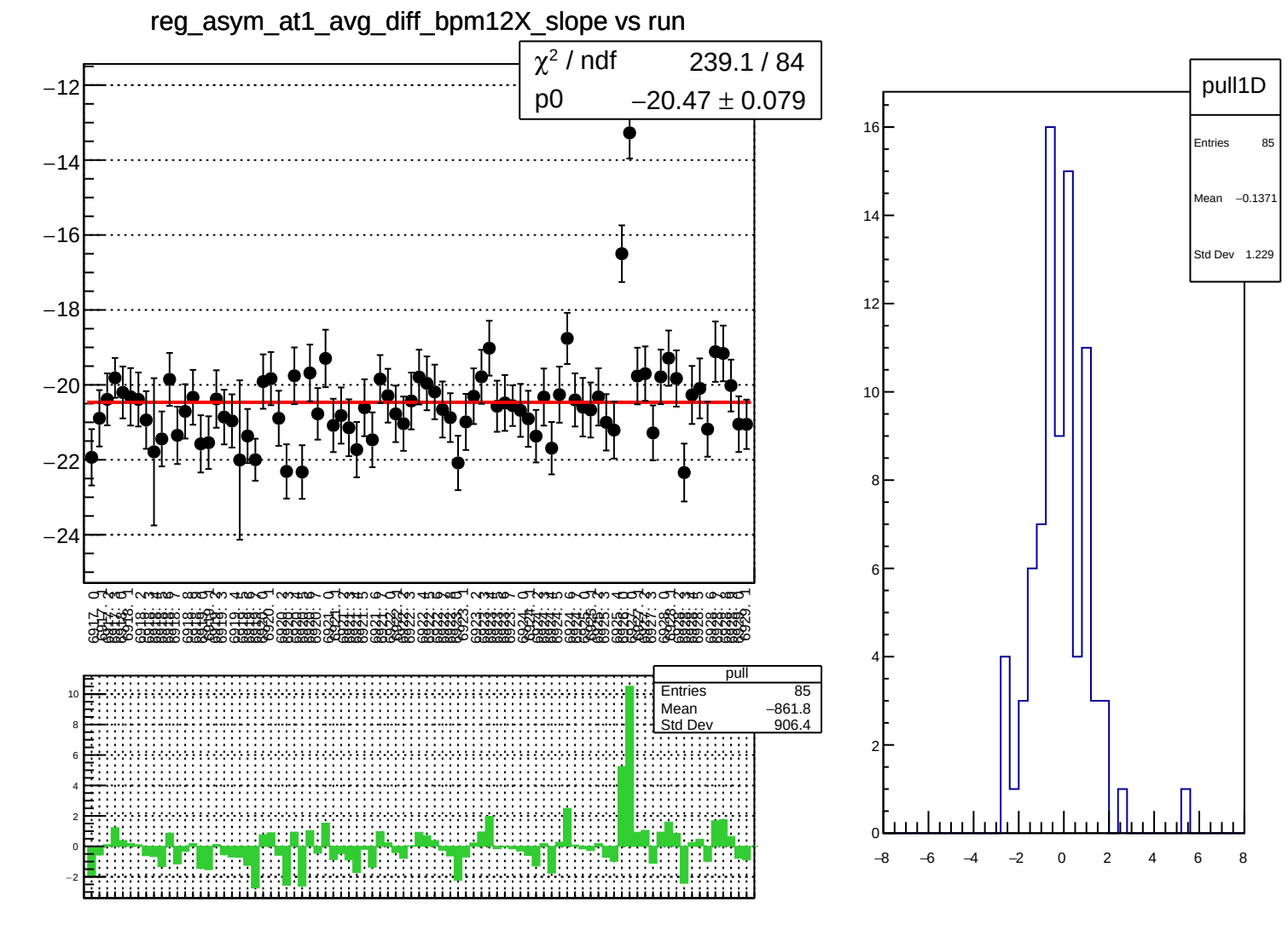

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.23 / 84
p0 4.032 ± 1.645
pull
Entries 85
Mean 2026
Std Dev 1982

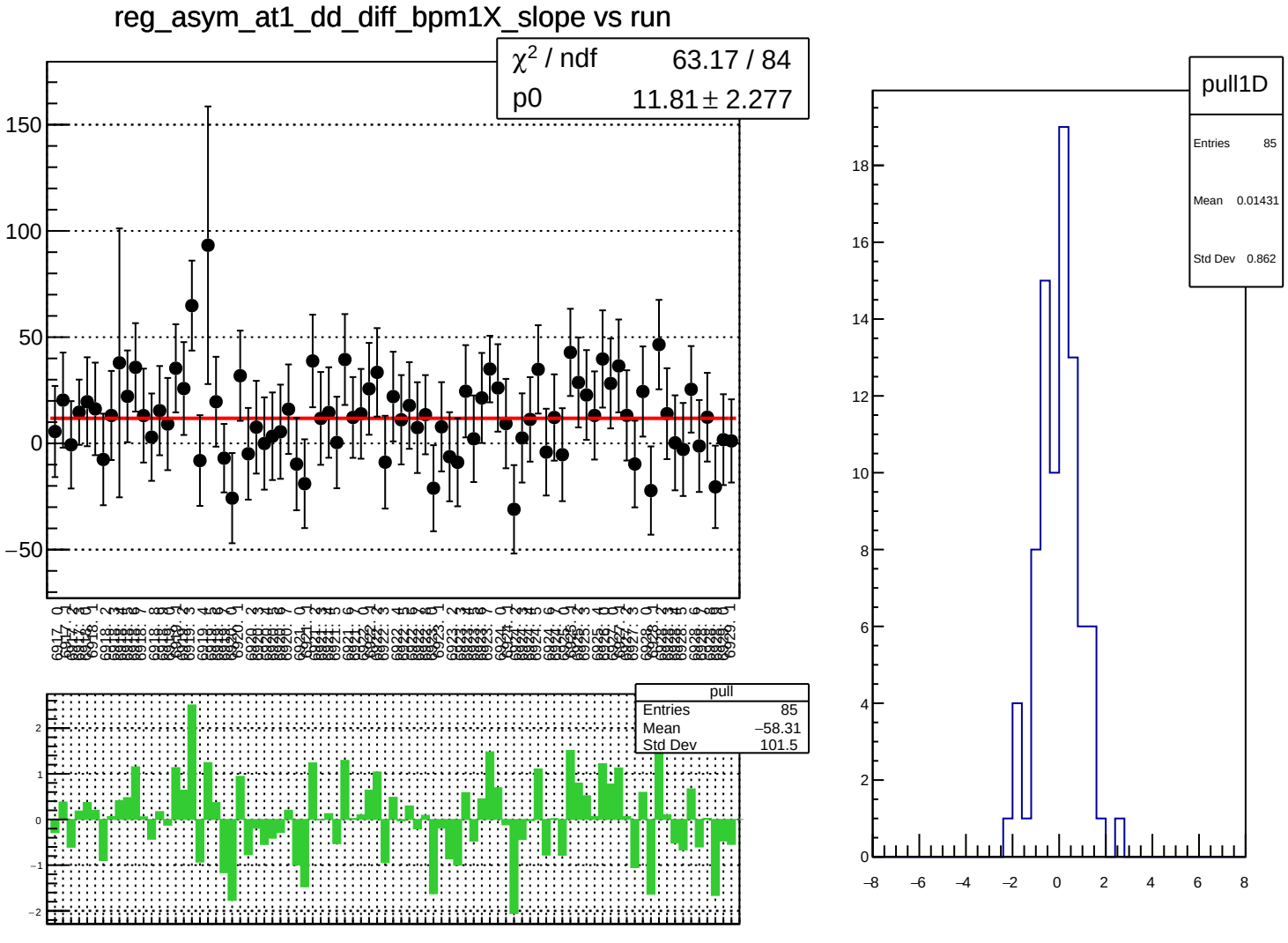

pull1D
Entries 85
Mean −0.0004724
Std Dev 0.8693

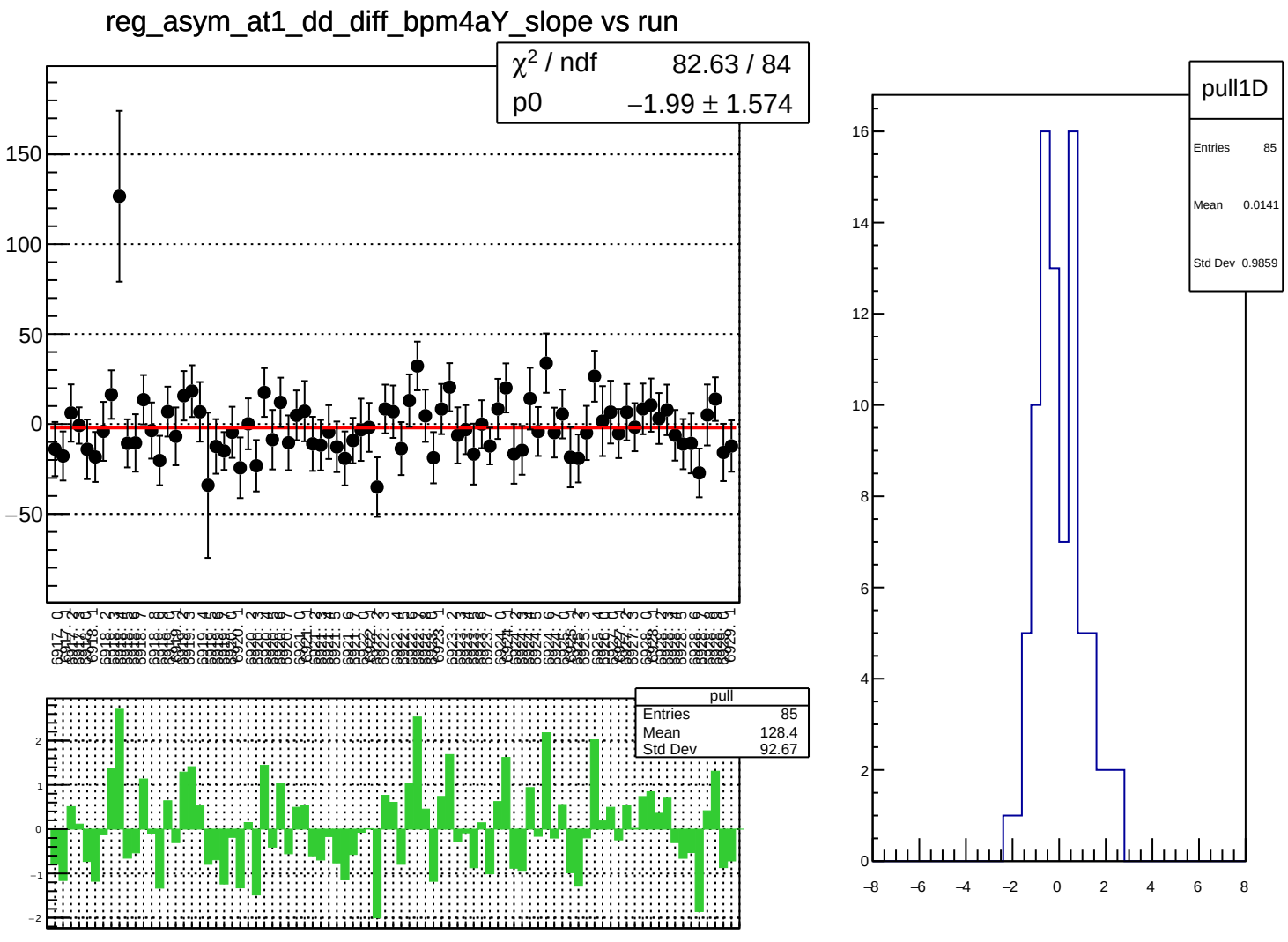

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.75 / 84
p0 25.03 ± 2.208
pull
Entries 85
Mean −6.137
Std Dev 98.54

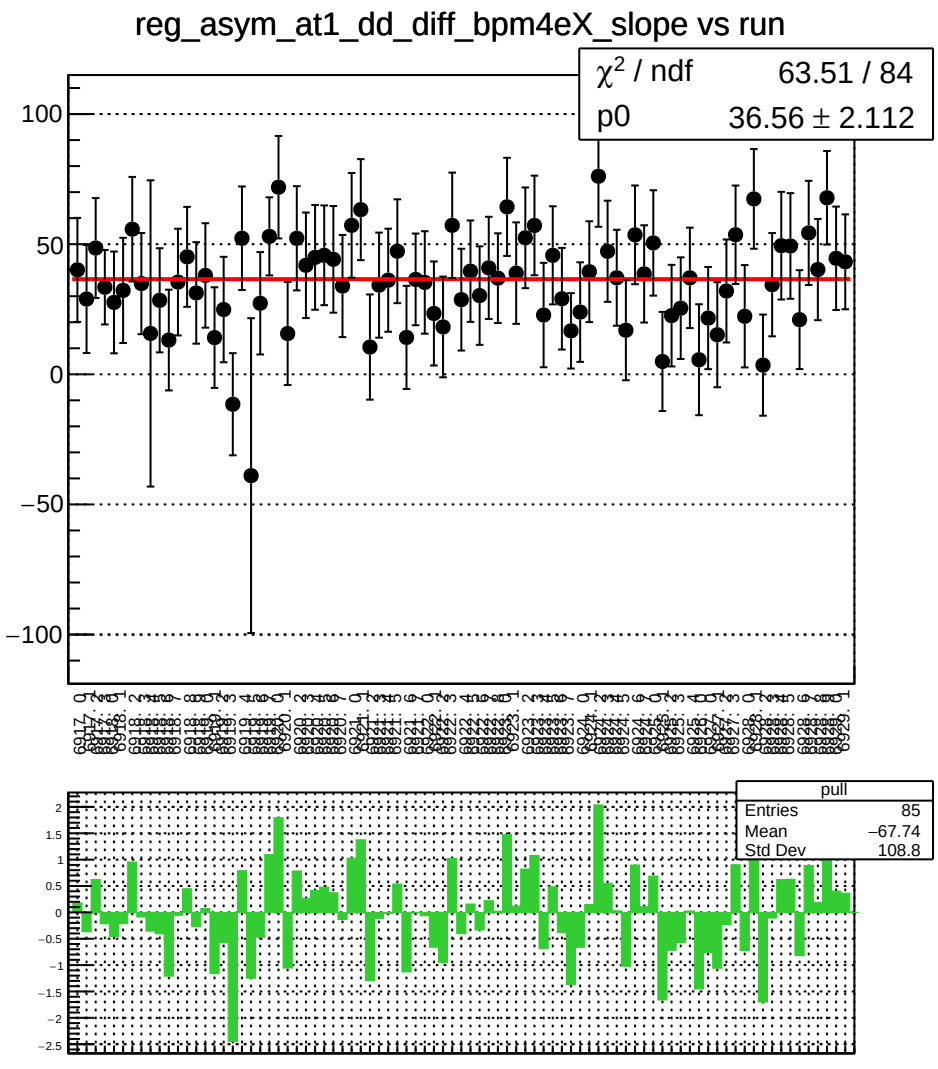

pull1D
Entries 85
Mean −0.0131
Std Dev 1.039

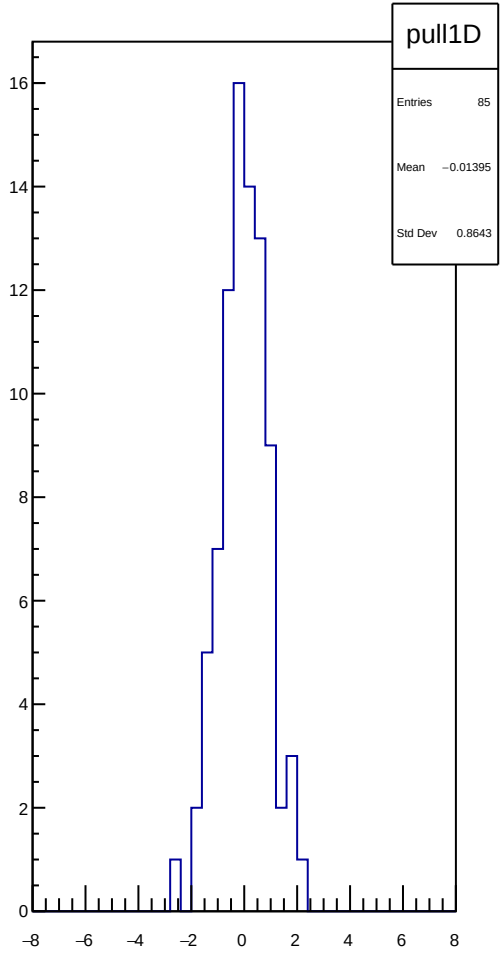

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.76 / 84
p0 −7.696 ± 1.864
pull
Entries 85
Mean −148.2
Std Dev 171.2
pull1D
Entries 85
Mean 0.002761
Std Dev 0.8524

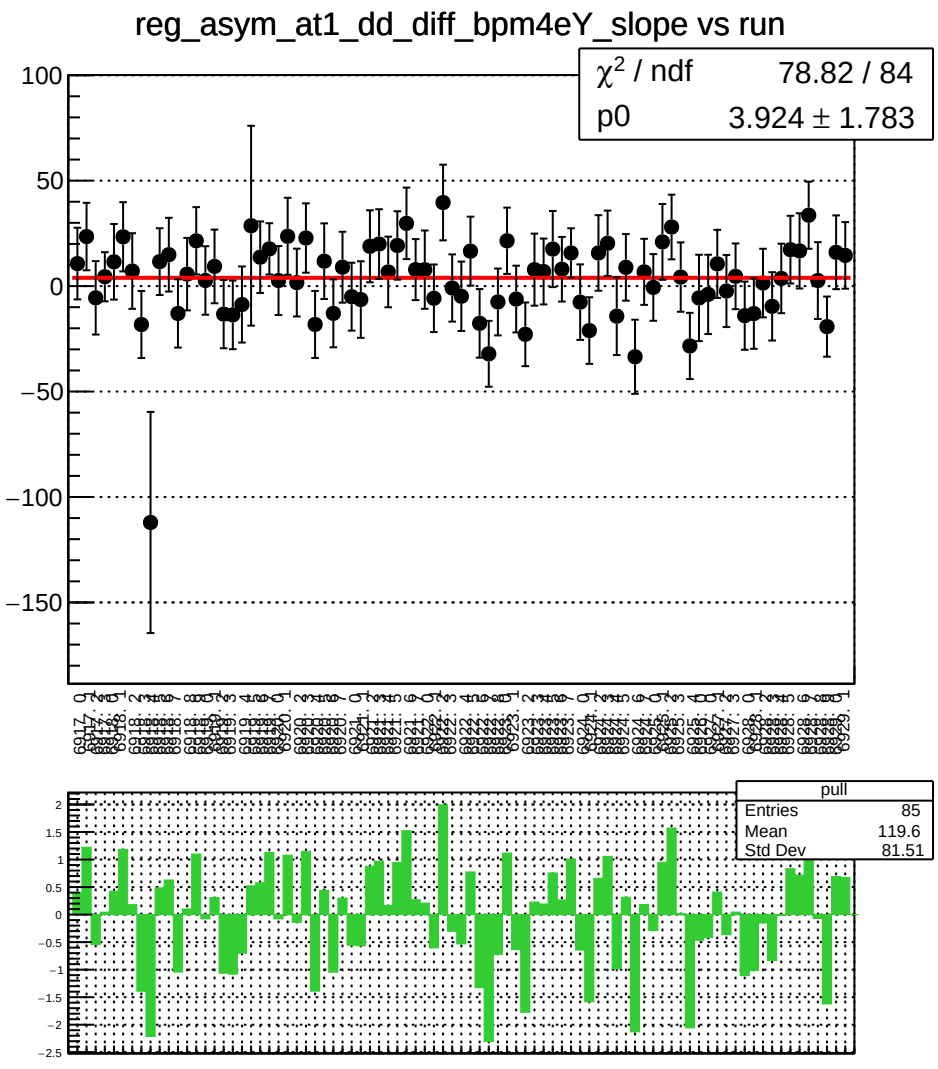

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 239.1 / 84
p0 −20.47 ± 0.079
pull
Entries 85
Mean −861.8
Std Dev 906.4
pull1D
Entries 85
Mean −0.1371
Std Dev 1.229

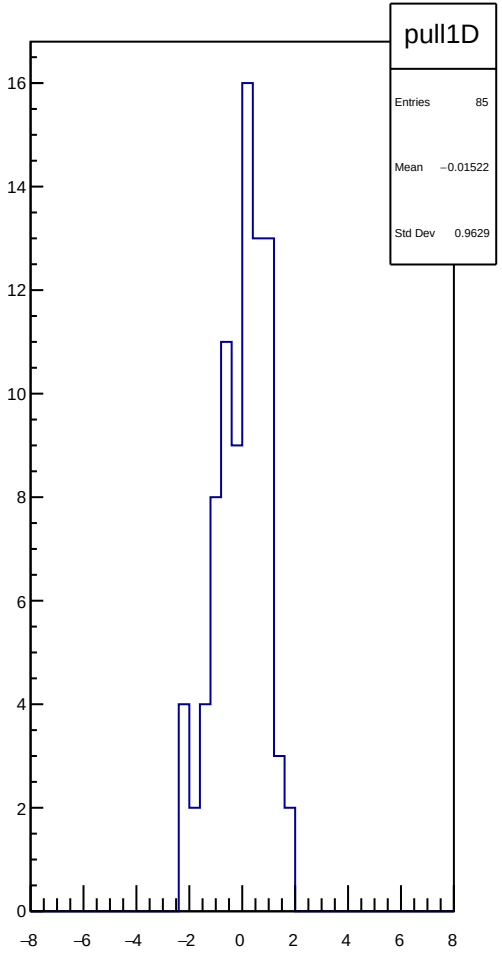

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 63.17 / 84
p0 11.81 ± 2.277
150
100
50
0
−50
pull
Entries 85
Mean −58.31
Std Dev 101.5
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01431
Std Dev 0.862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

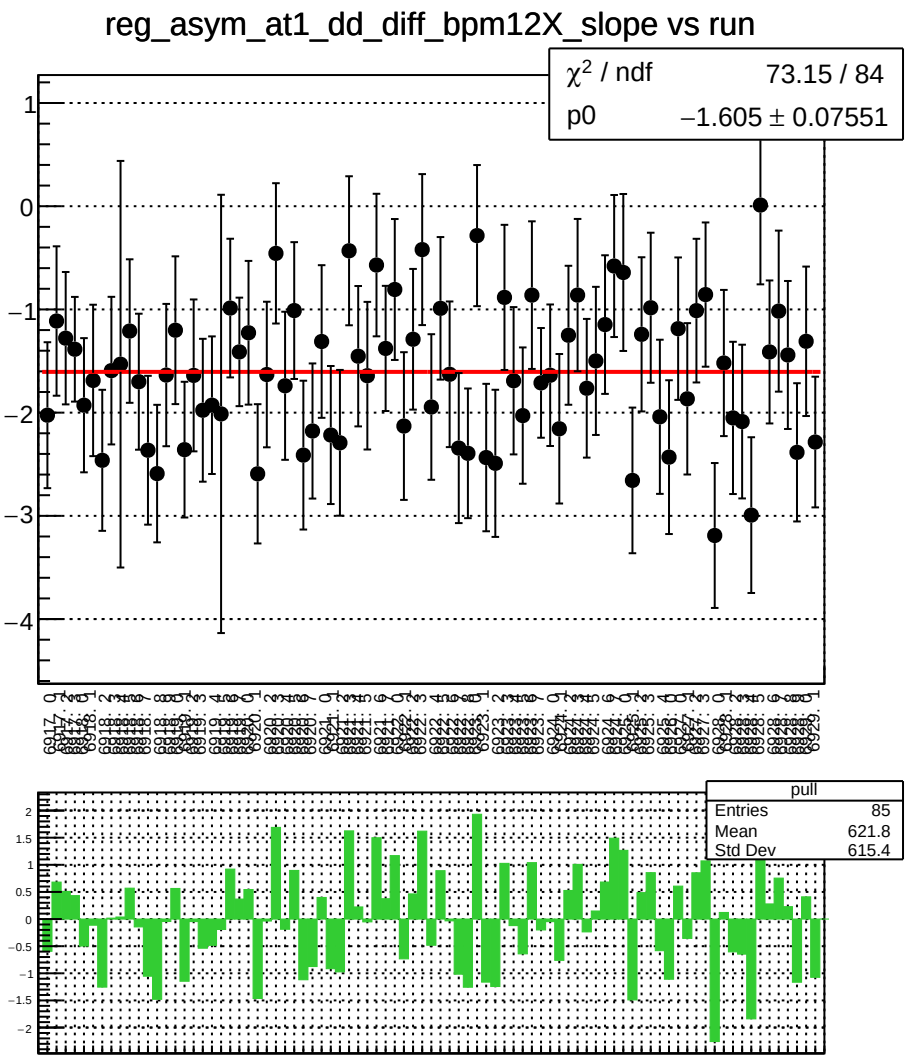

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.63 / 84
p0 −1.99 ± 1.574
150
100
50
0
−50
pull
Entries 85
Mean 128.4
Std Dev 92.67
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.0141
Std Dev 0.9859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

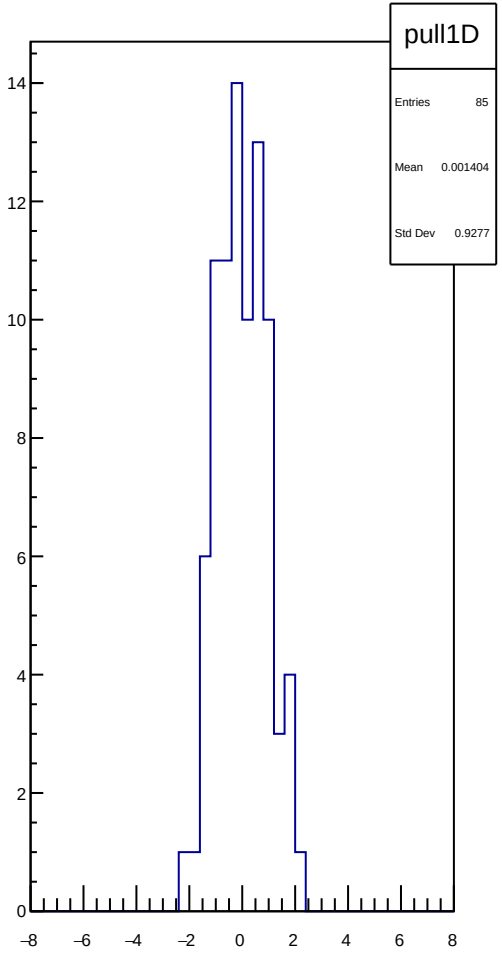

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.51 / 84
p0 36.56 ± 2.112
100
50
0
−50
−100
pull
Entries 85
Mean −67.74
Std Dev 108.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

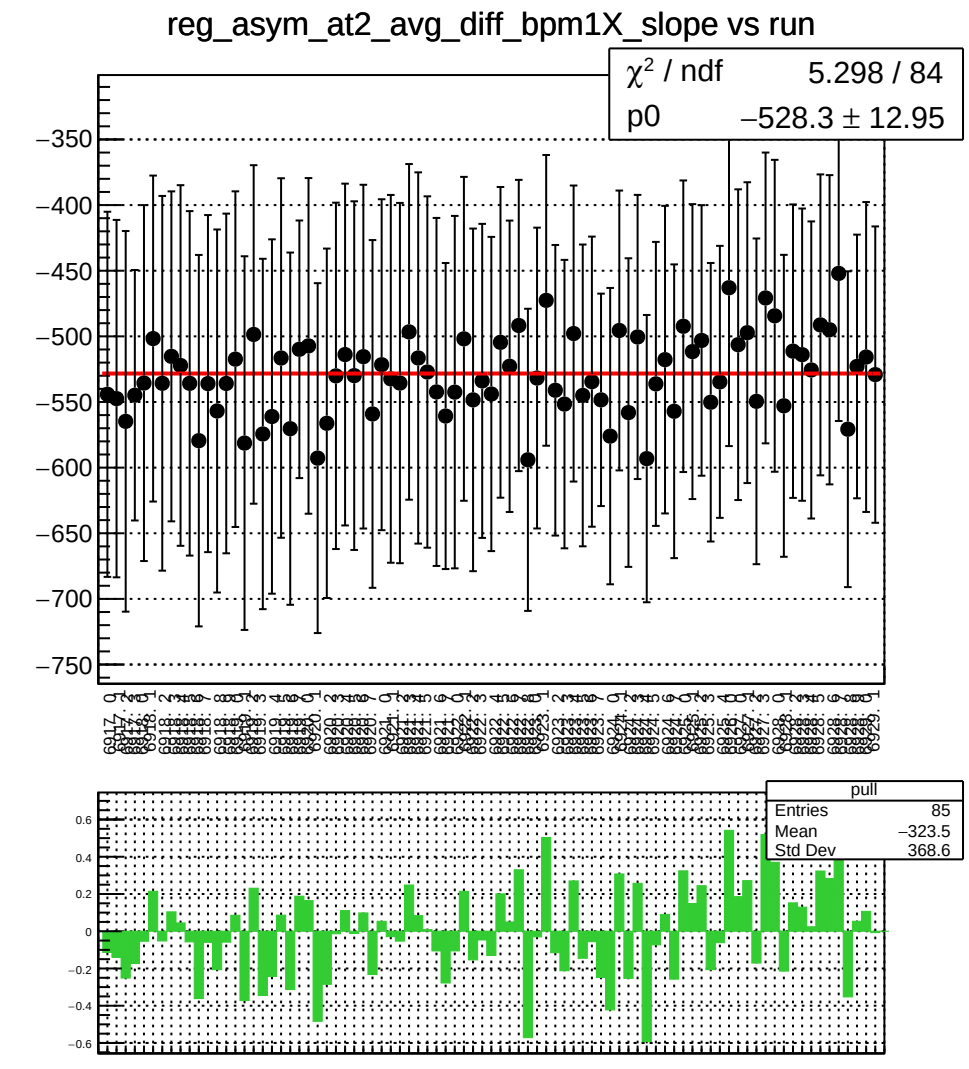

pull1D
Entries 85
Mean −0.01395
Std Dev 0.8643
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

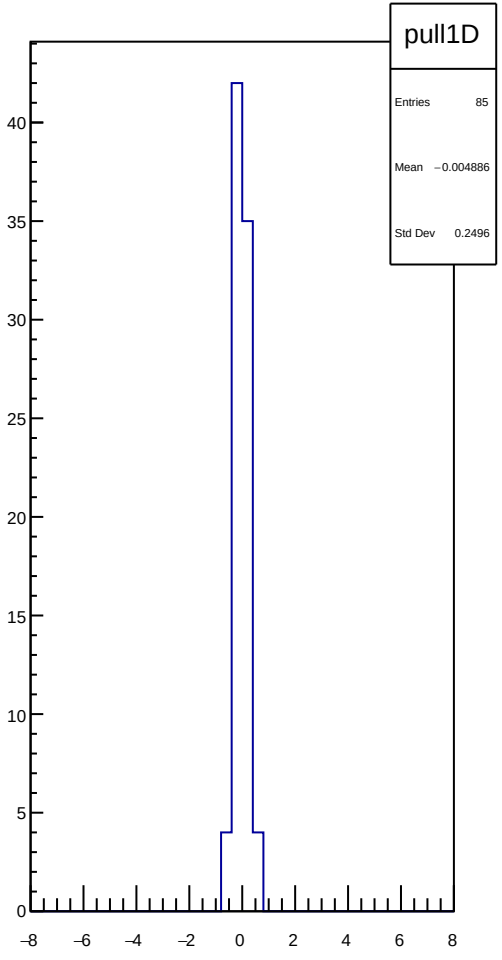

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.82 / 84
p0 3.924 ± 1.783
pull
Entries 85
Mean 119.6
Std Dev 81.51

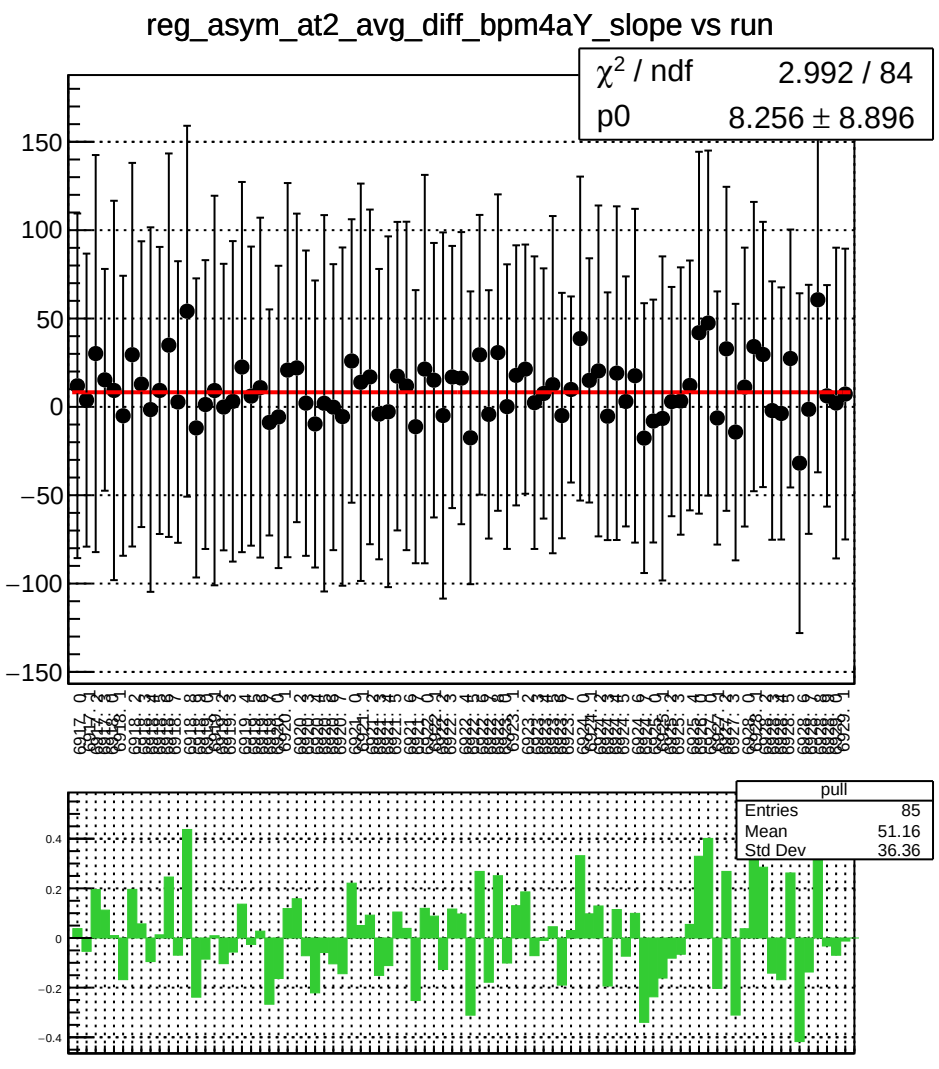

pull1D
Entries 85
Mean −0.01522
Std Dev 0.9629

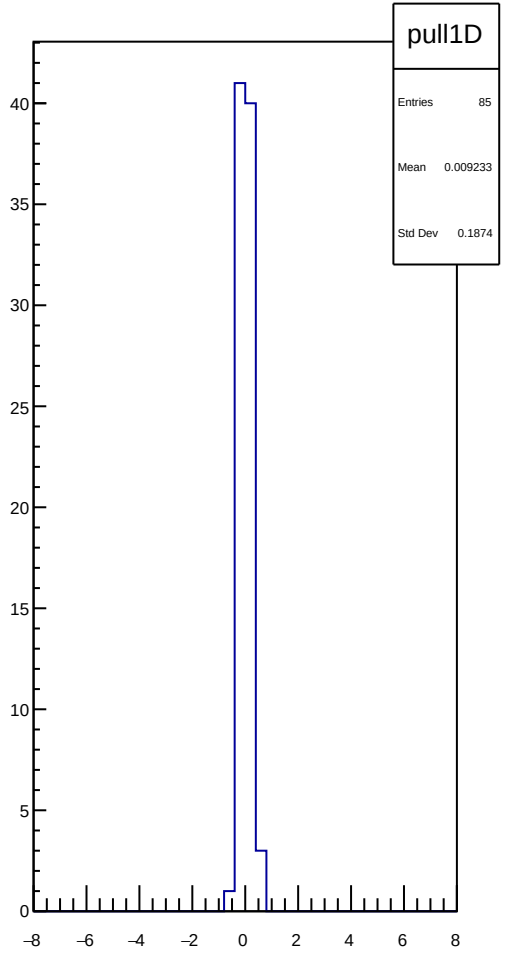

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 73.15 / 84
p0 −1.605 ± 0.07551
pull
Entries 85
Mean 621.8
Std Dev 615.4

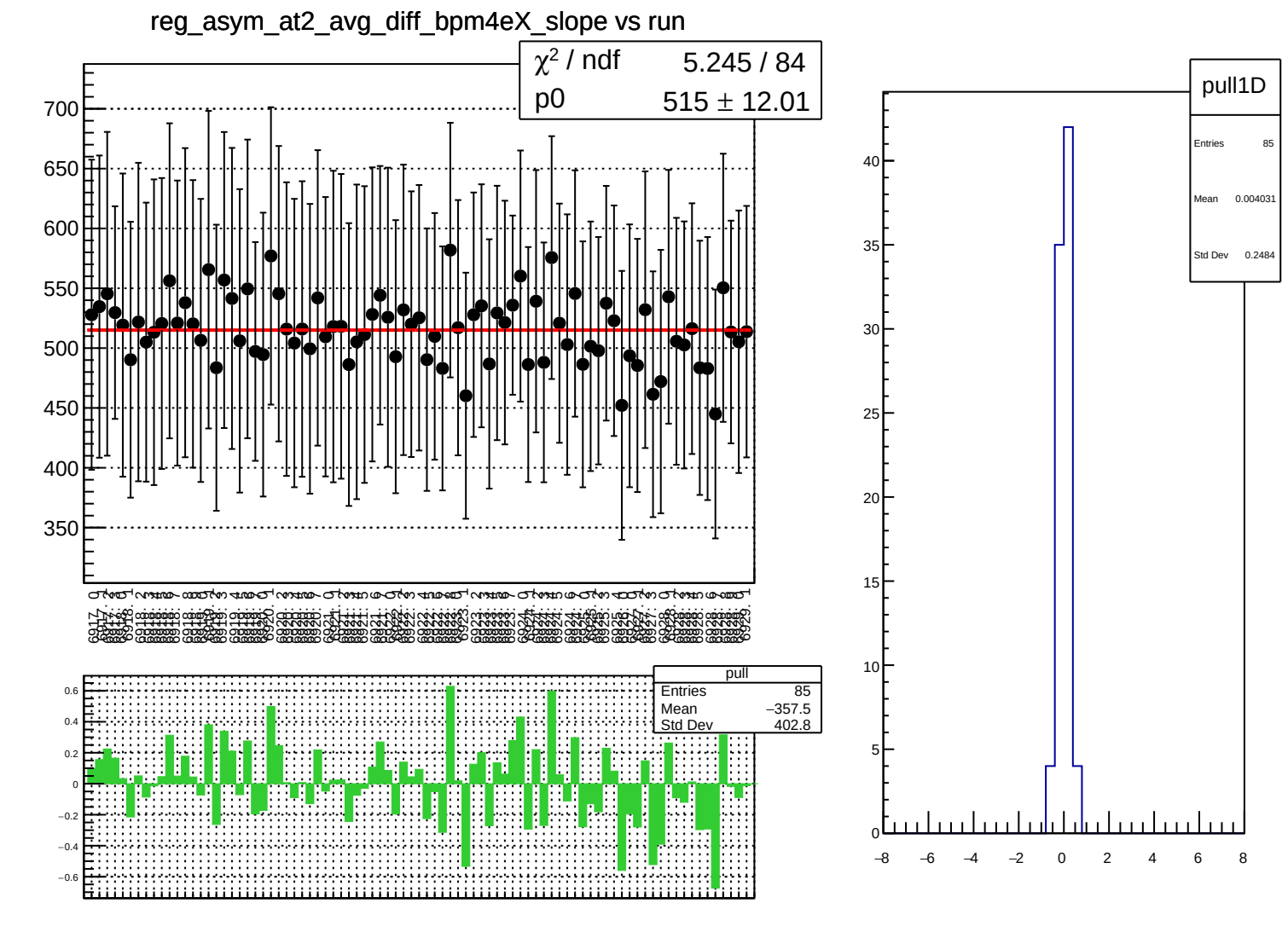

pull1D
Entries 85
Mean 0.001404
Std Dev 0.9277

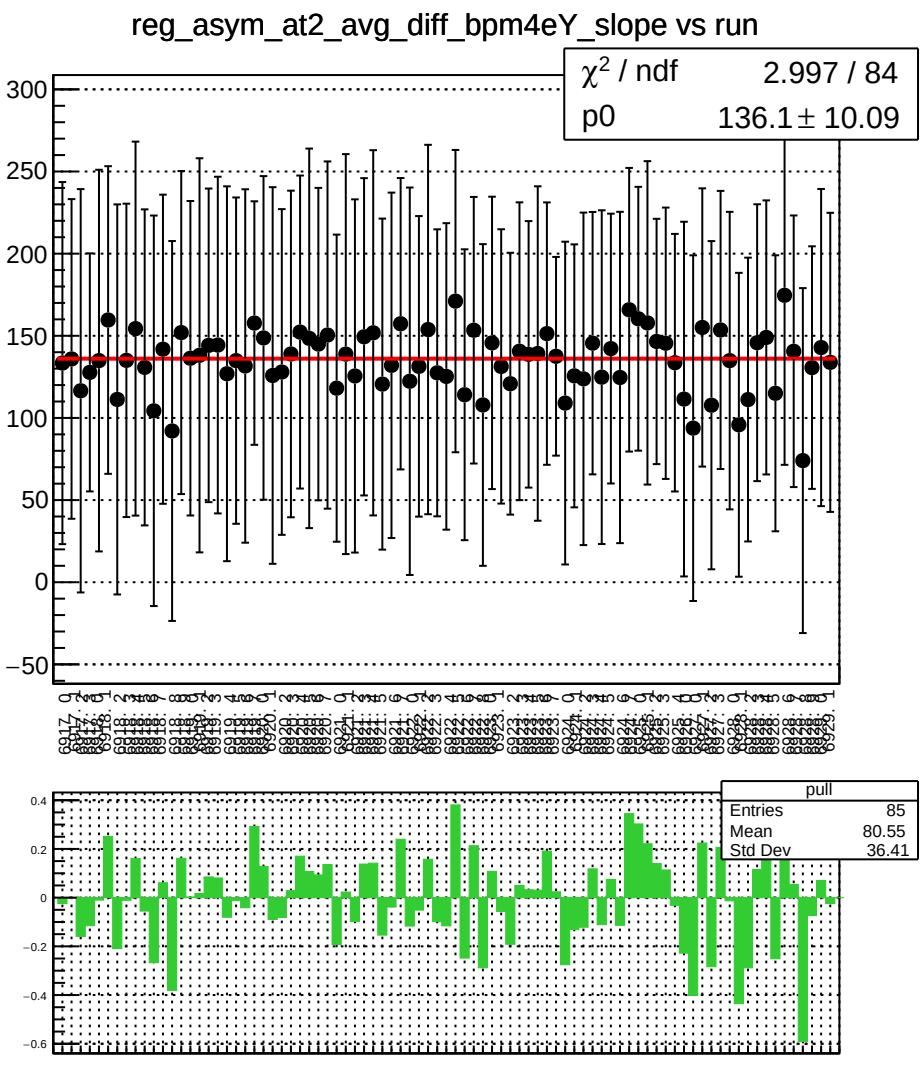

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.298 / 84
p0 −528.3 ± 12.95
pull
Entries 85
Mean −323.5
Std Dev 368.6

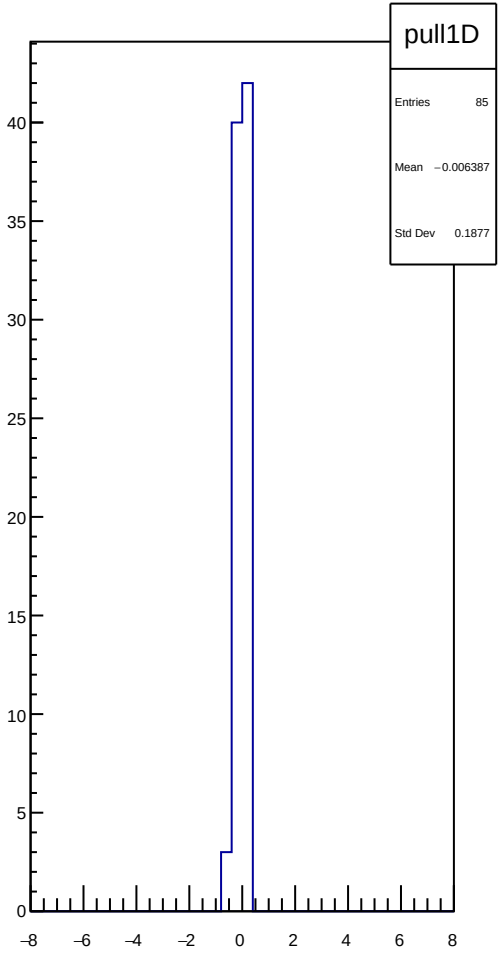

pull1D
Entries 85
Mean −0.004886
Std Dev 0.2496

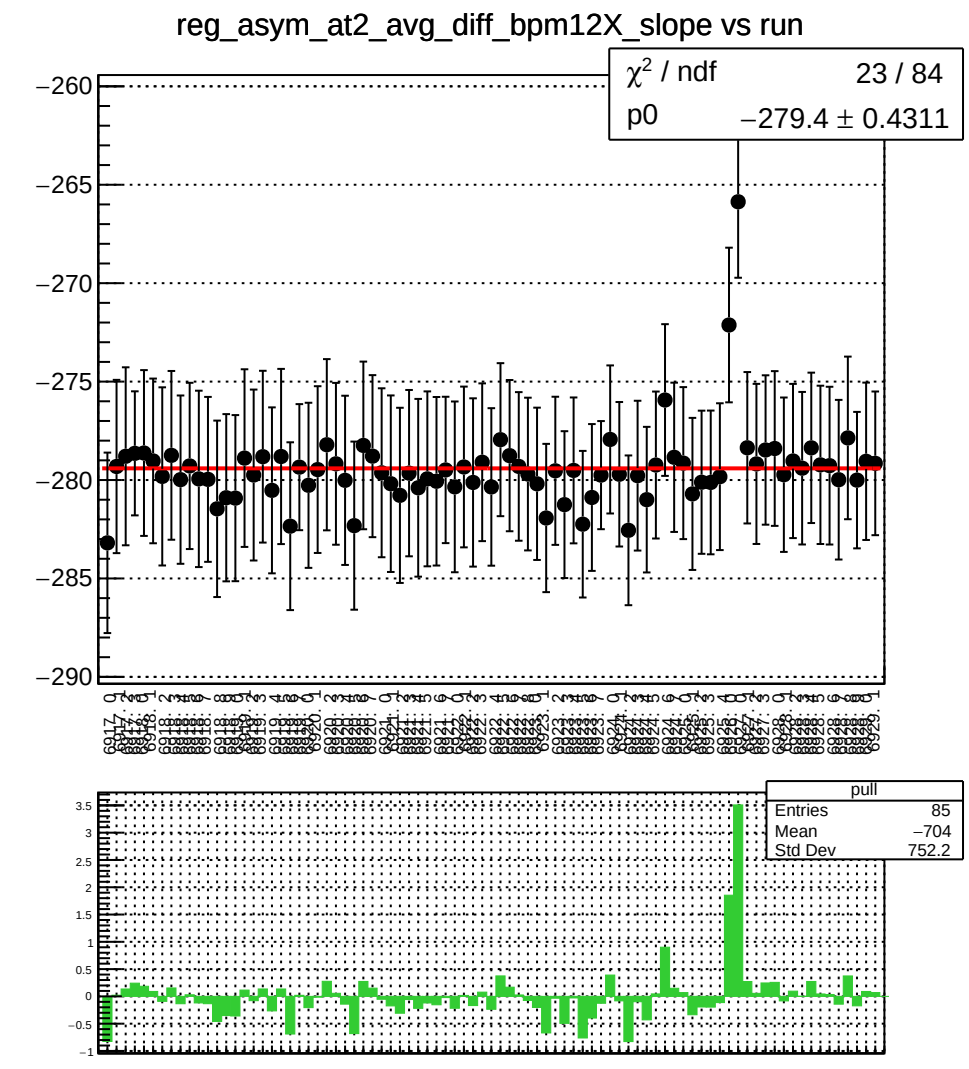

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.992 / 84
p0 8.256 ± 8.896
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 51.16
Std Dev 36.36
0.4
0.2
0
−0.2
−0.4

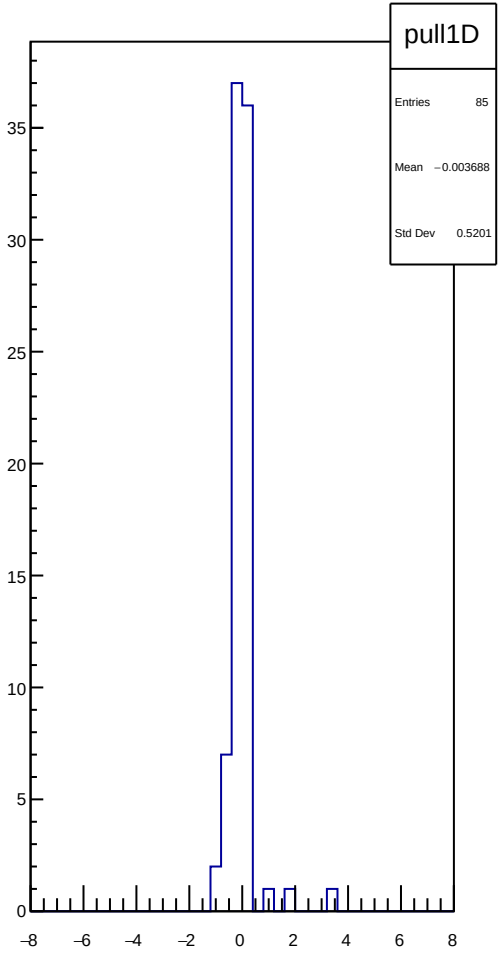

pull1D
Entries 85
Mean 0.009233
Std Dev 0.1874
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

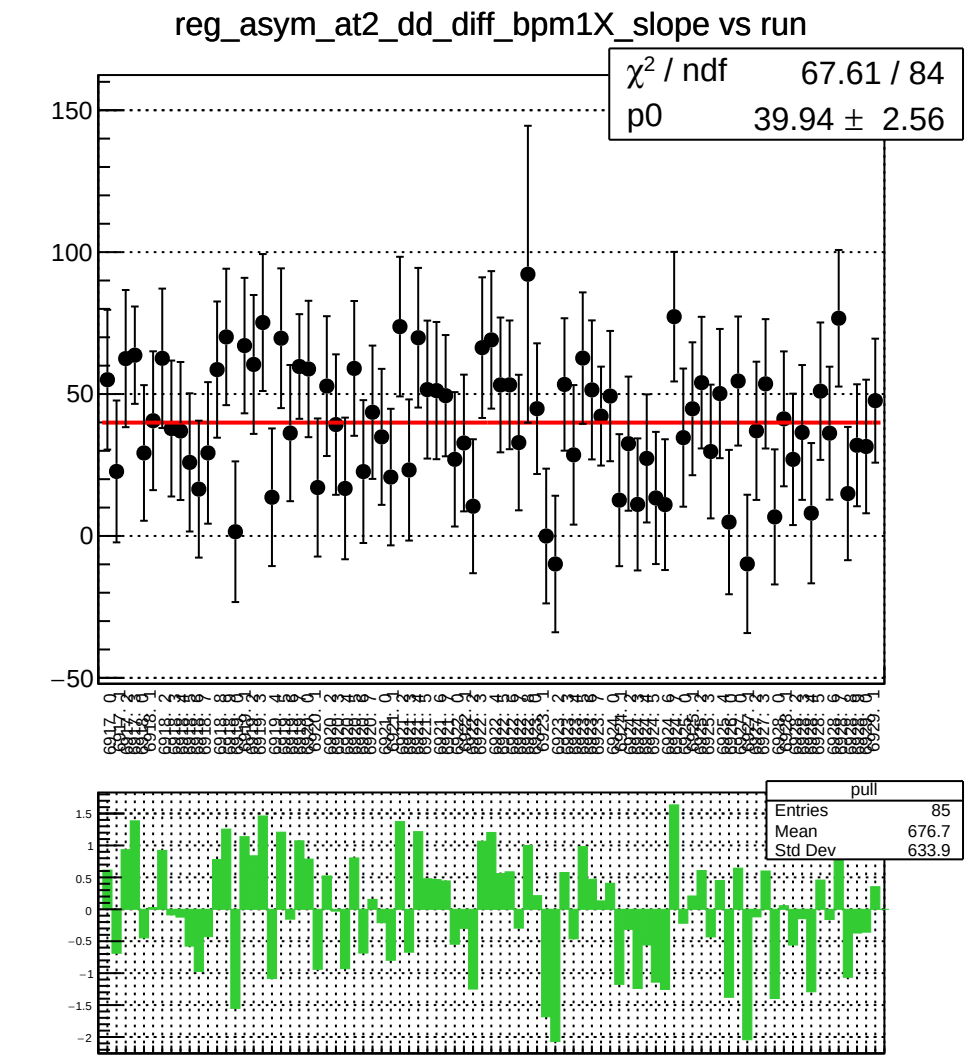

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.245 / 84
p0 515 ± 12.01
700
650
600
550
500
450
400
350
pull
Entries 85
Mean −357.5
Std Dev 402.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean 0.004031
Std Dev 0.2484
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

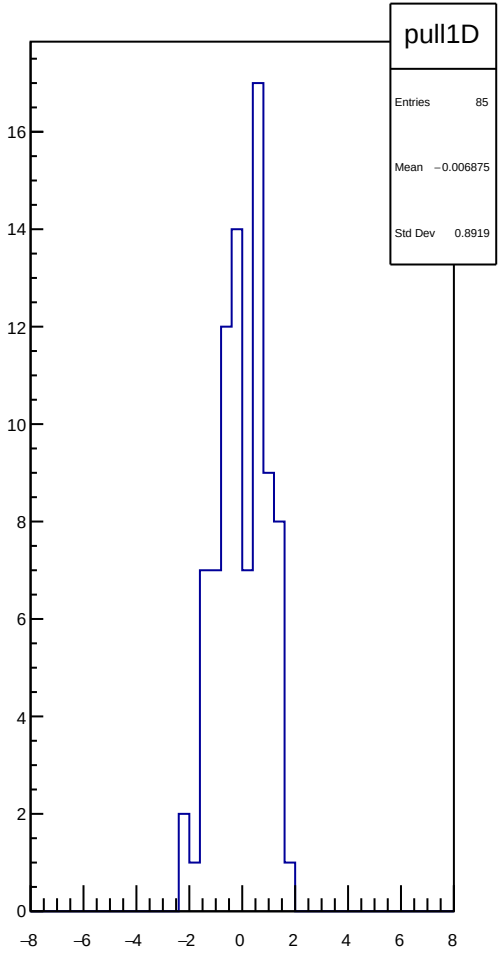

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.997 / 84
p0 136.1 ± 10.09
pull
Entries 85
Mean 80.55
Std Dev 36.41

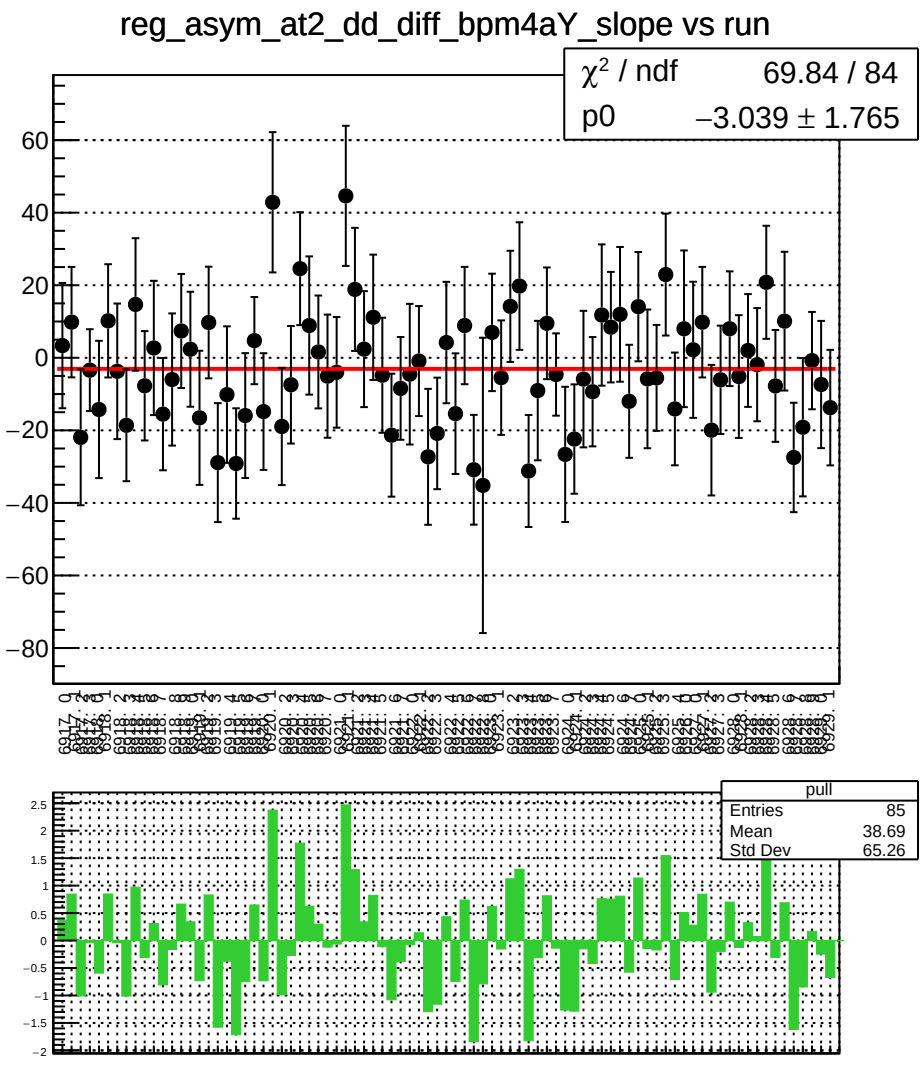

pull1D
Entries 85
Mean −0.006387
Std Dev 0.1877

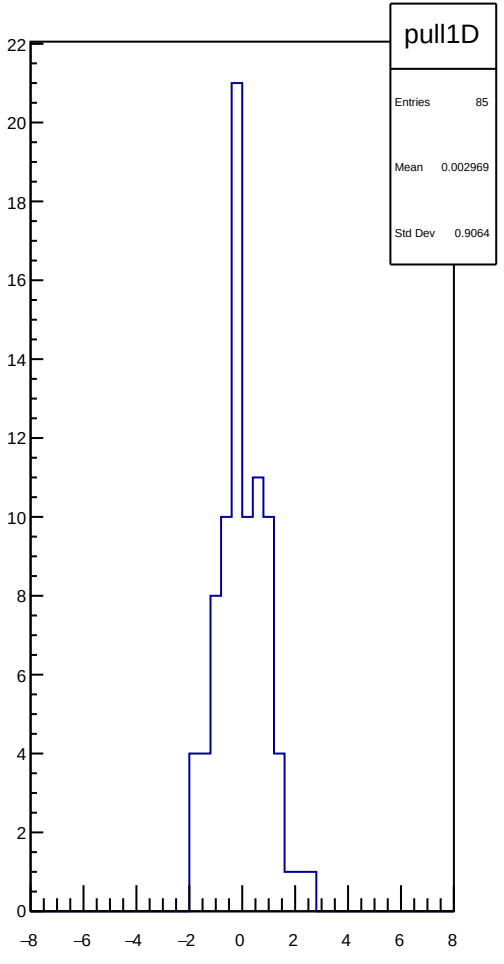

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 23 / 84
p0 −279.4 ± 0.4311
pull
Entries 85
Mean −704
Std Dev 752.2

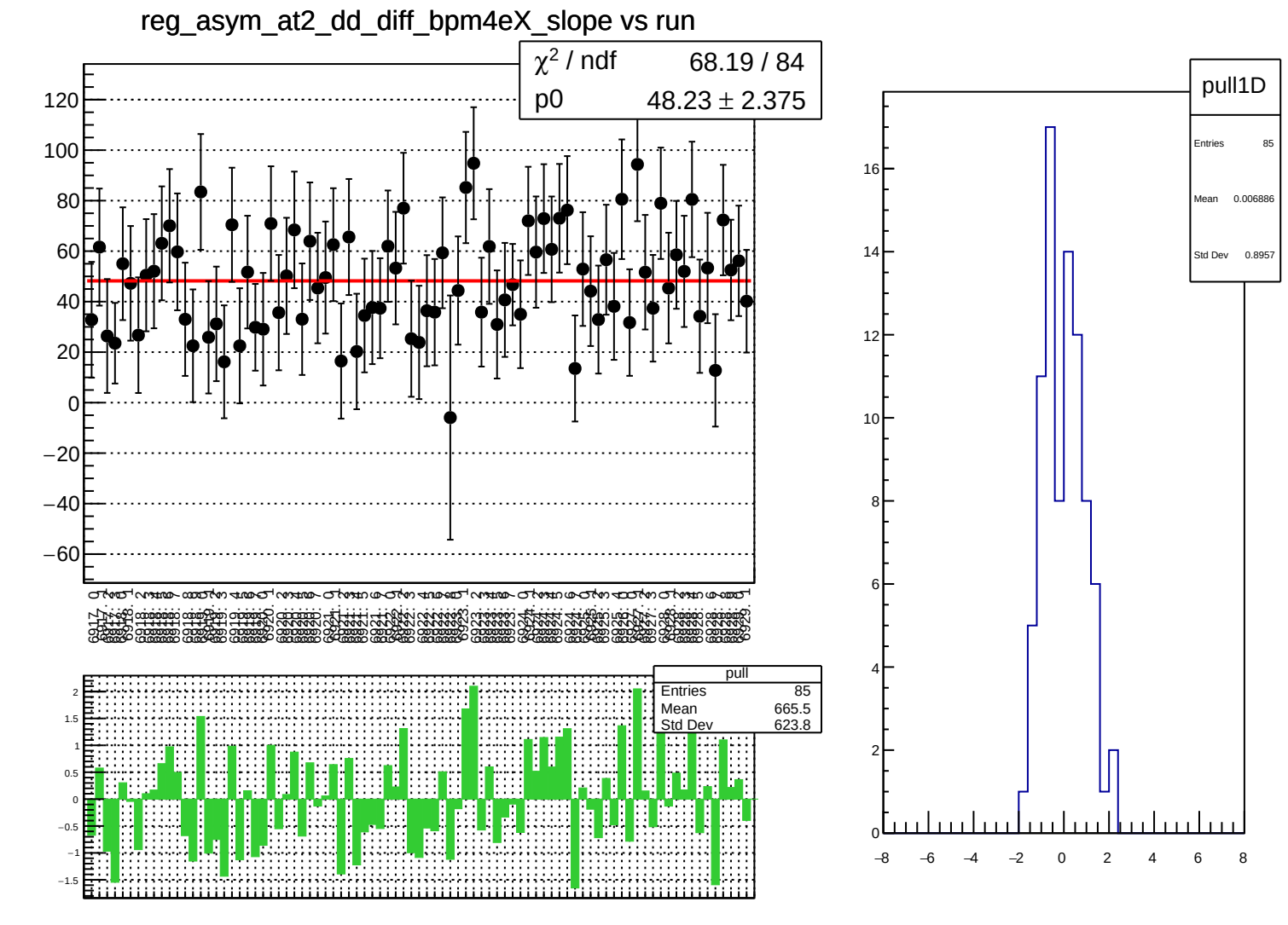

pull1D
Entries 85
Mean −0.003688
Std Dev 0.5201

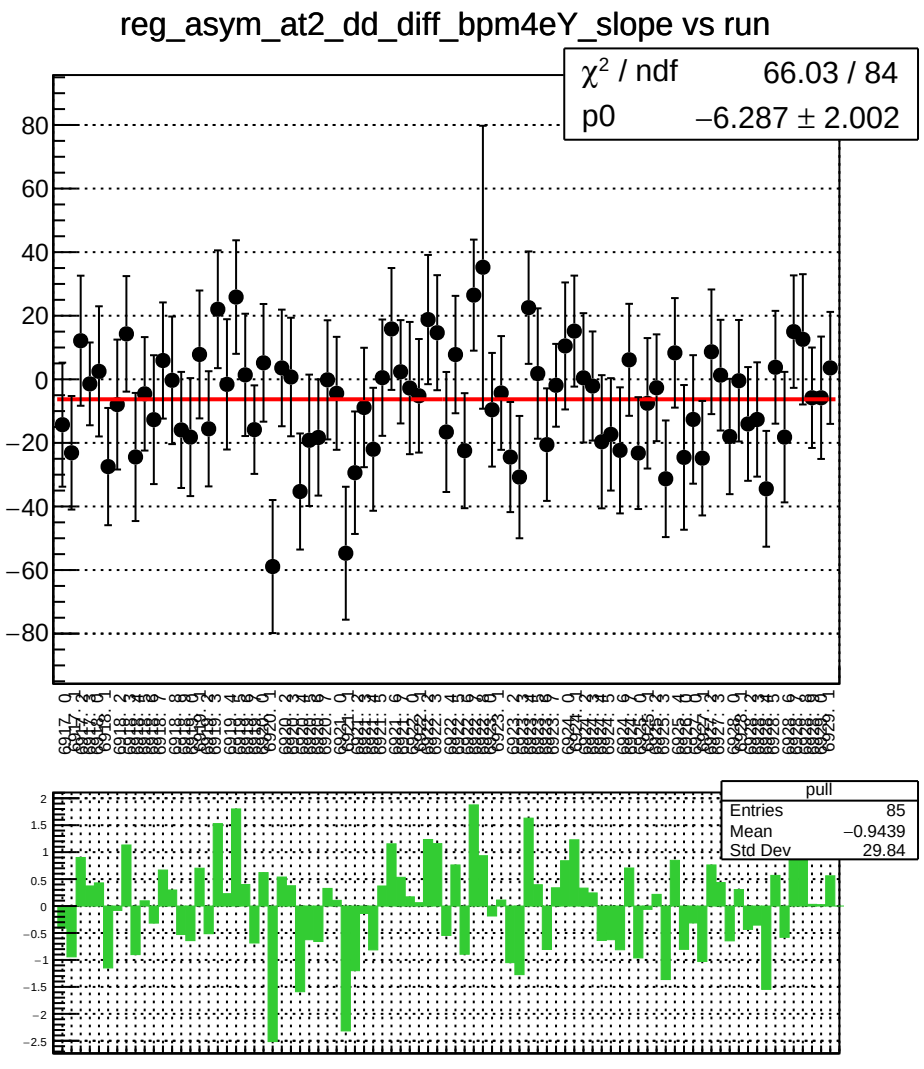

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 67.61 / 84
p0 39.94 ± 2.56
150
100
50
0
−50
pull
Entries 85
Mean 676.7
Std Dev 633.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

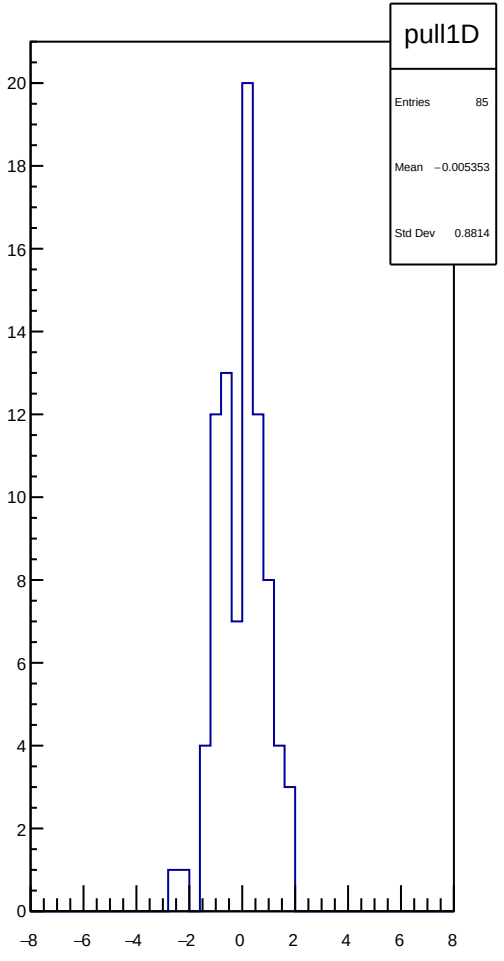

pull1D
Entries 85
Mean −0.006875
Std Dev 0.8919
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

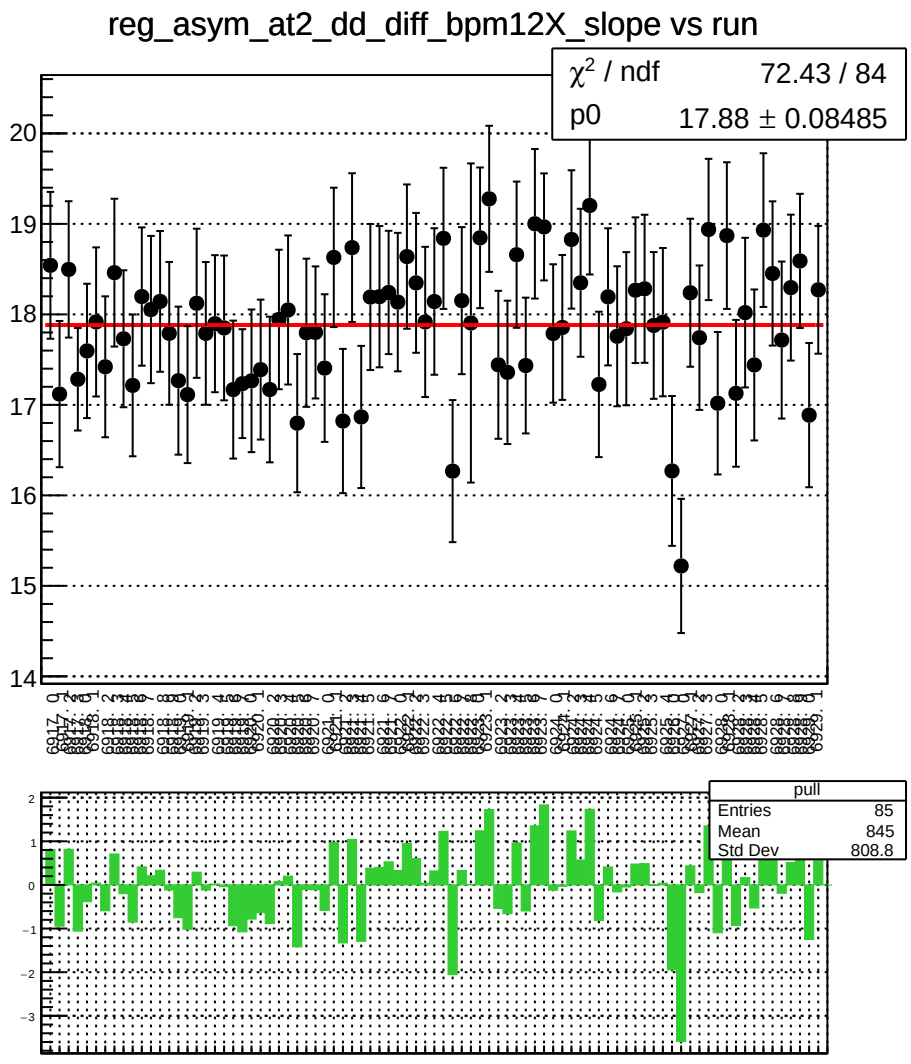

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.84 / 84
p0 −3.039 ± 1.765
pull
Entries 85
Mean 38.69
Std Dev 65.26

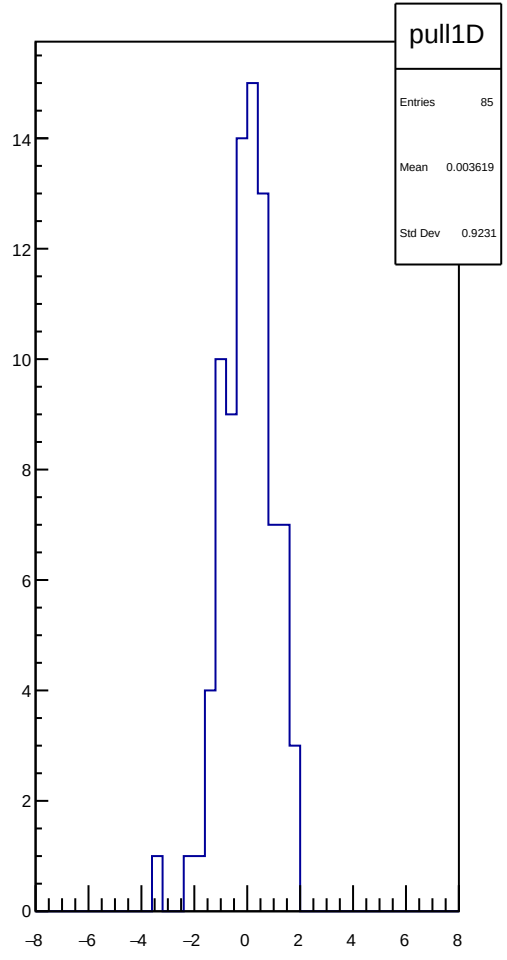

pull1D
Entries 85
Mean 0.002969
Std Dev 0.9064

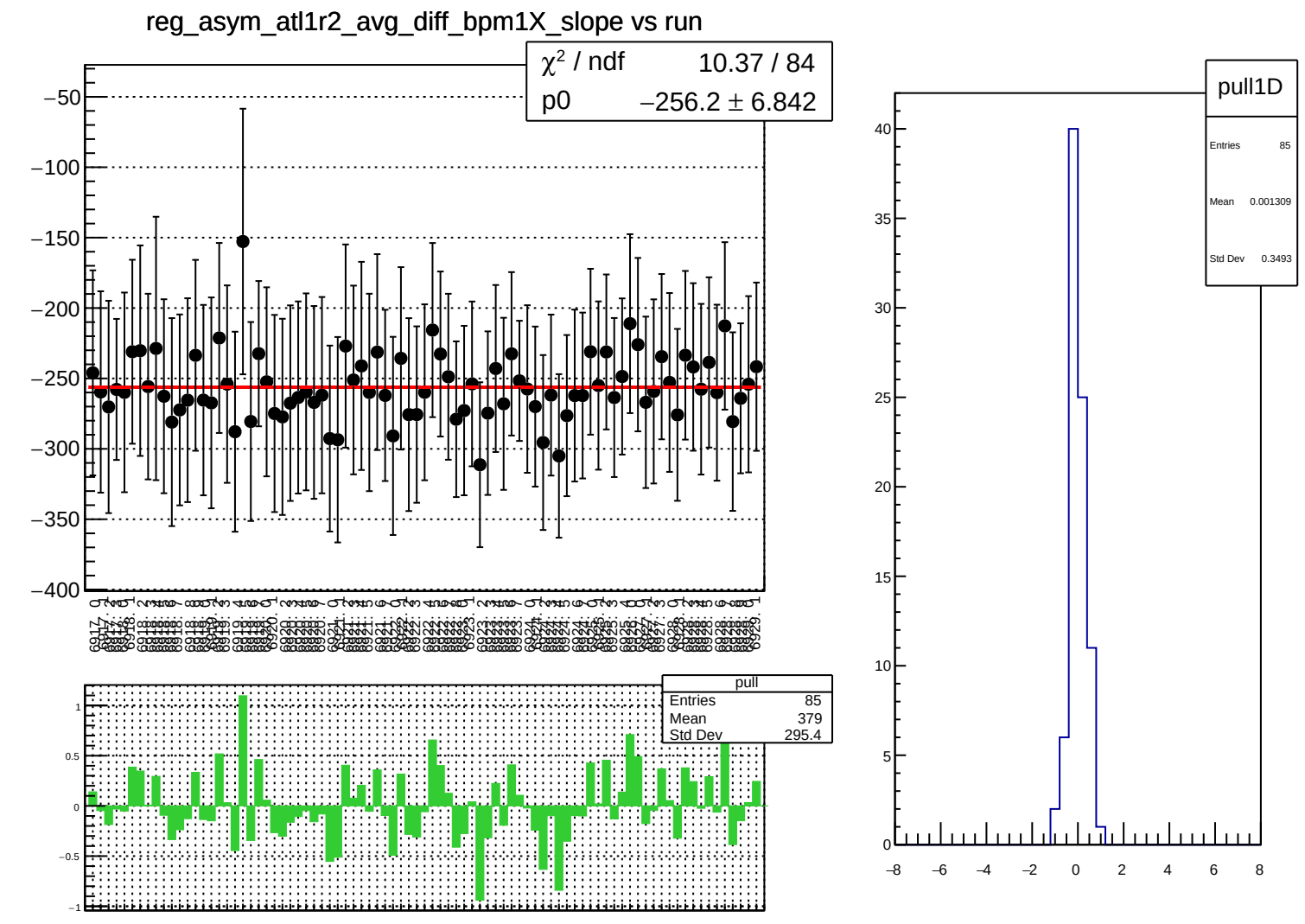

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.19 / 84
p0 48.23 ± 2.375
pull
Entries 85
Mean 665.5
Std Dev 623.8
pull1D
Entries 85
Mean 0.006886
Std Dev 0.8957

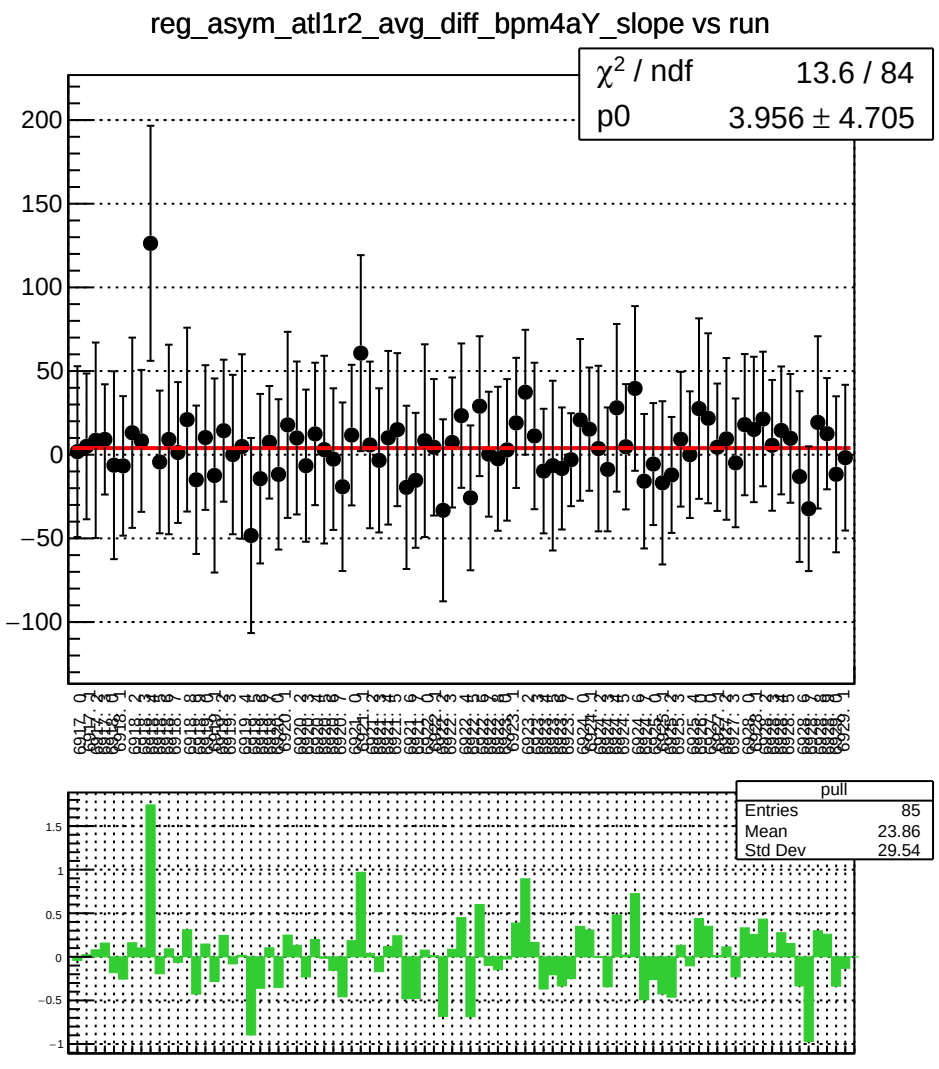

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.03 / 84
p0 −6.287 ± 2.002
pull
Entries 85
Mean −0.9439
Std Dev 29.84

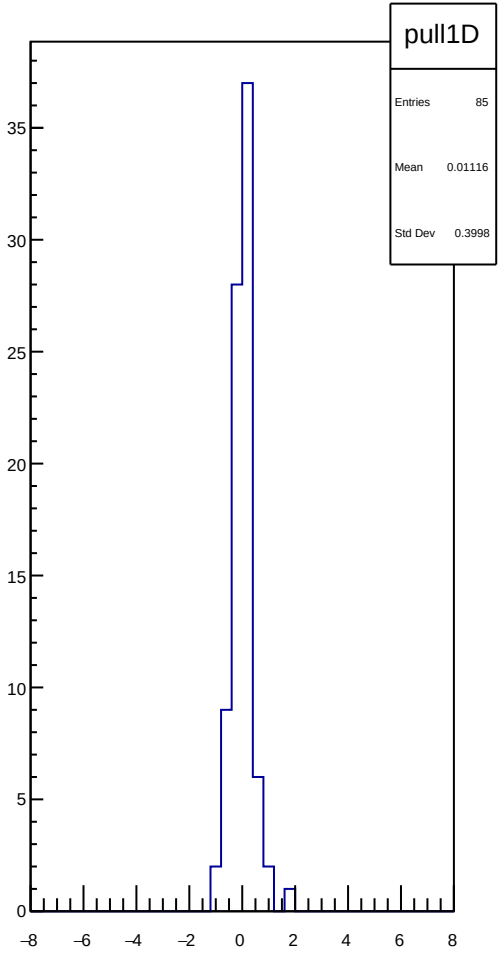

pull1D
Entries 85
Mean −0.005353
Std Dev 0.8814

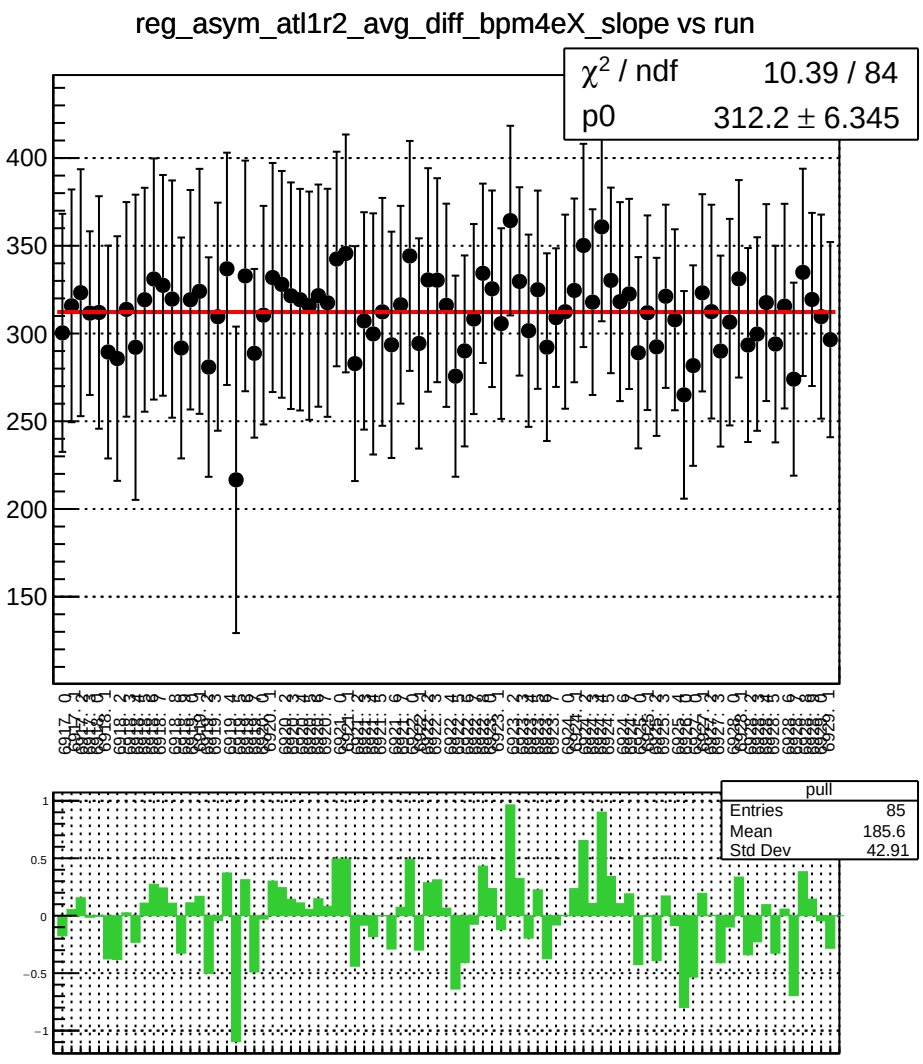

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 72.43 / 84
p0 17.88 ± 0.08485
pull
Entries 85
Mean 845
Std Dev 808.8

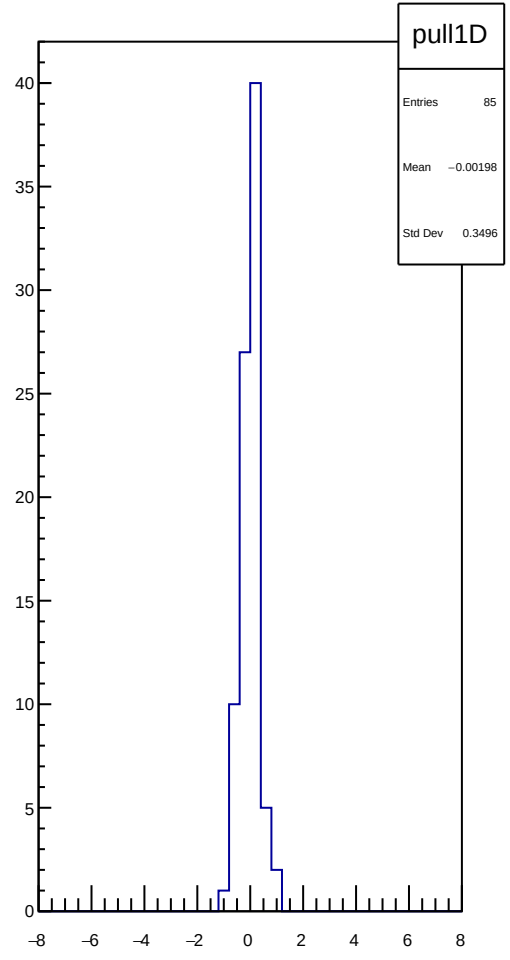

pull1D
Entries 85
Mean 0.003619
Std Dev 0.9231

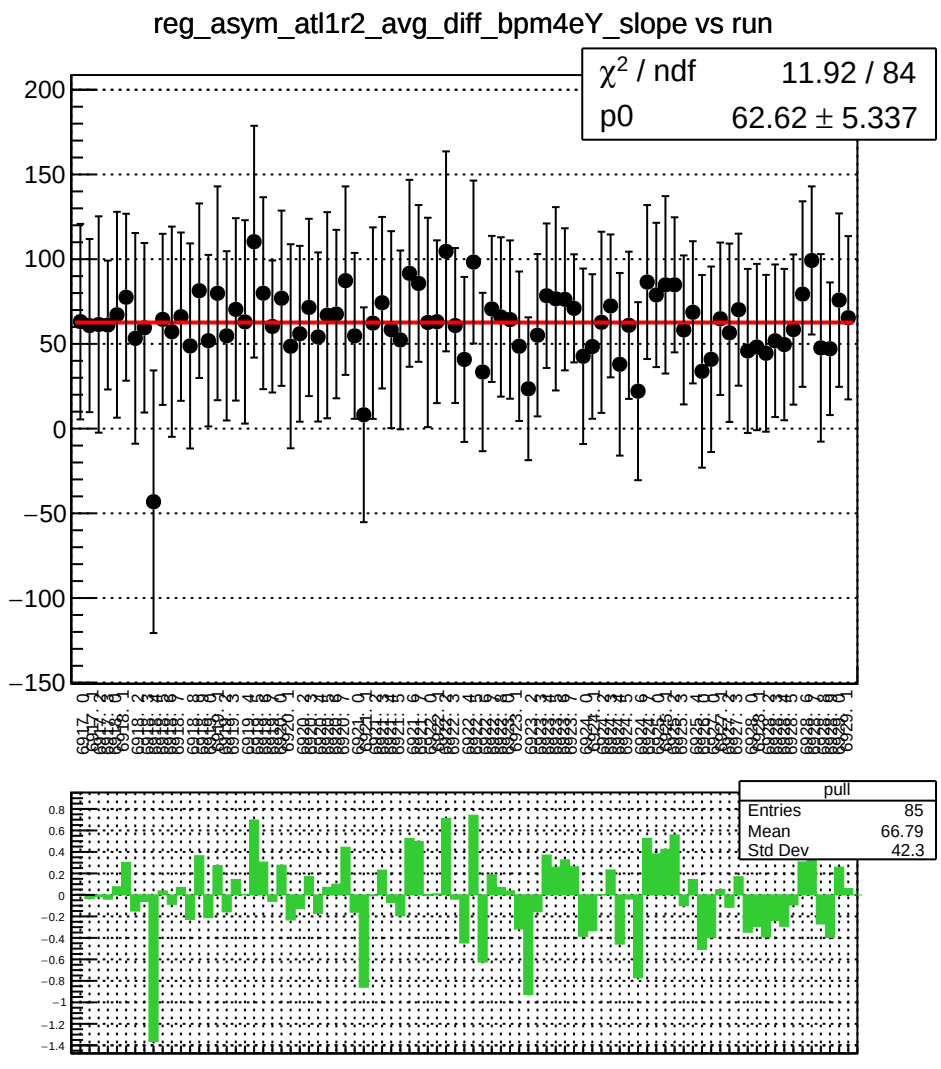

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.37 / 84
p0 −256.2 ± 6.842
pull
Entries 85
Mean 379
Std Dev 295.4
pull1D
Entries 85
Mean 0.001309
Std Dev 0.3493

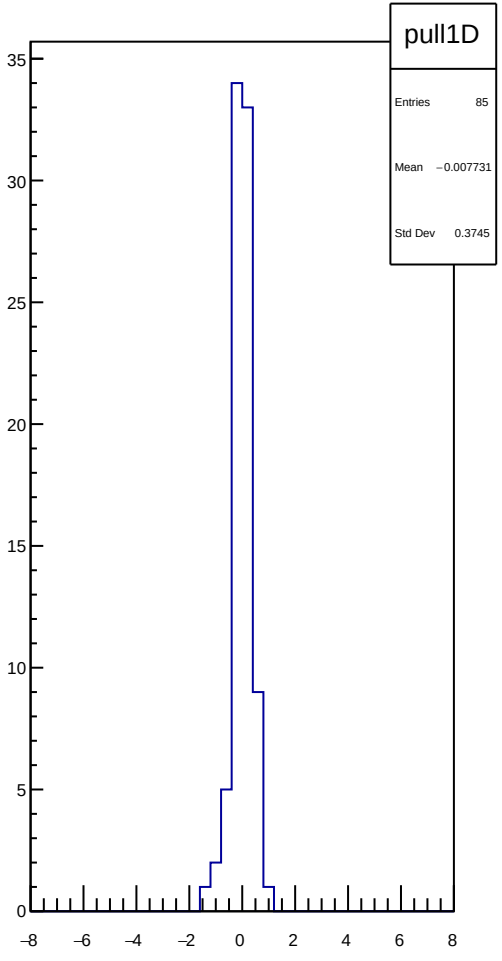

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.6 / 84
p0 3.956 ± 4.705
pull
Entries 85
Mean 23.86
Std Dev 29.54

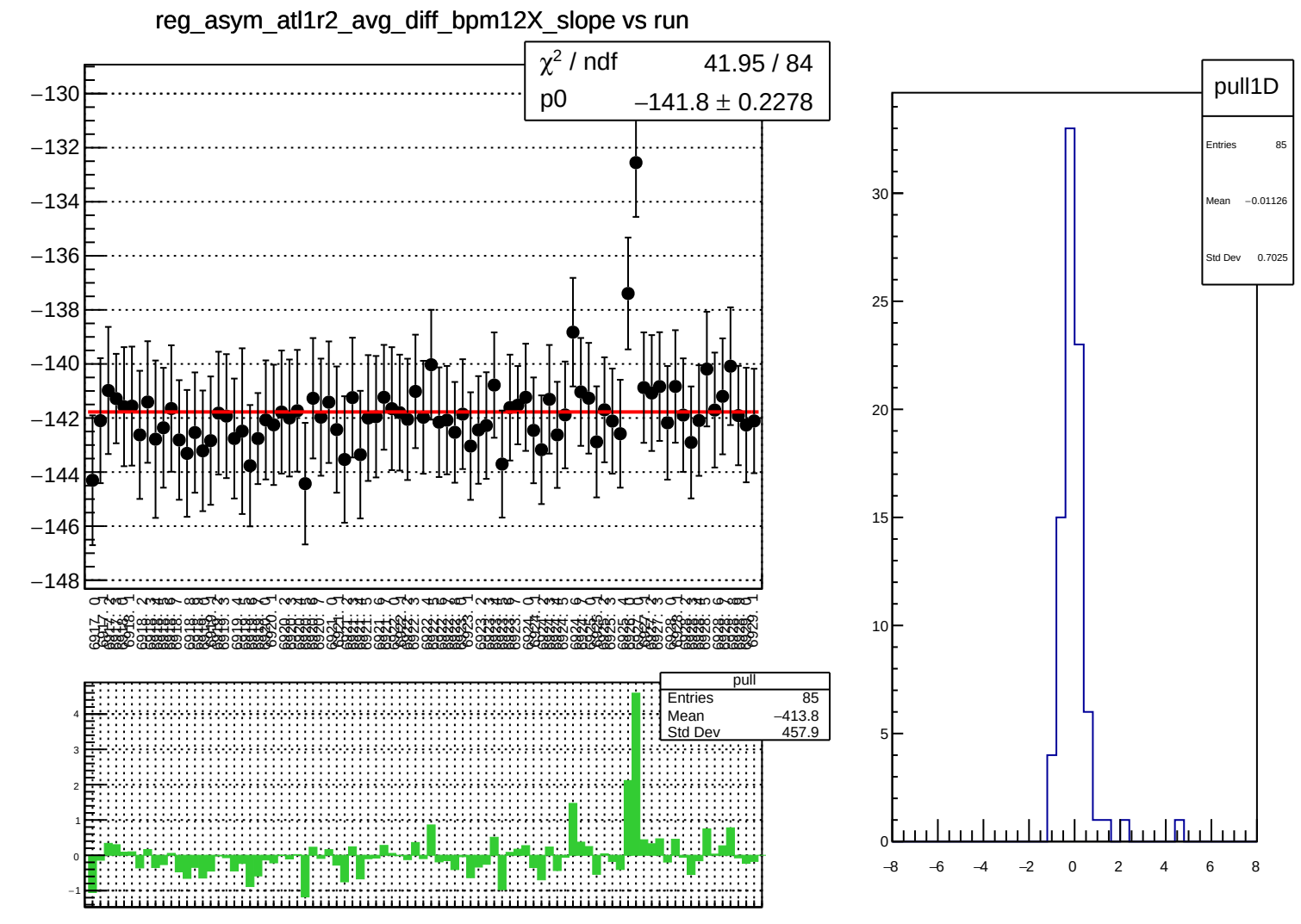

pull1D
Entries 85
Mean 0.01116
Std Dev 0.3998

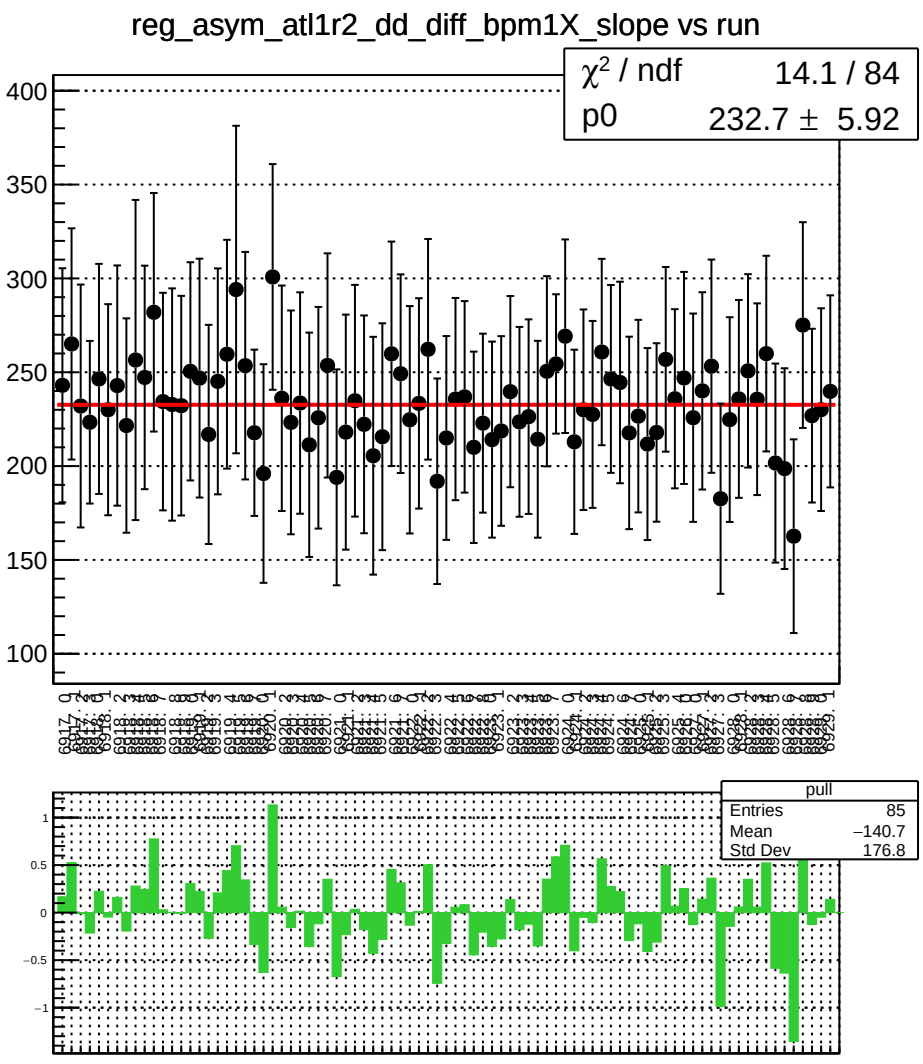

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.39 / 84
p0 312.2 ± 6.345
400
350
300
250
200
150
pull
Entries 85
Mean 185.6
Std Dev 42.91
1
0.5
0
−0.5
−1

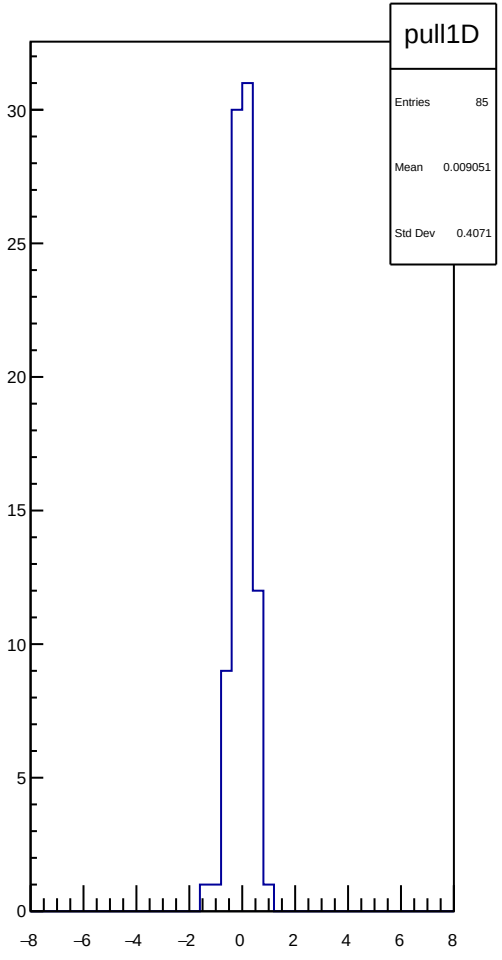

pull1D
Entries 85
Mean −0.00198
Std Dev 0.3496
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

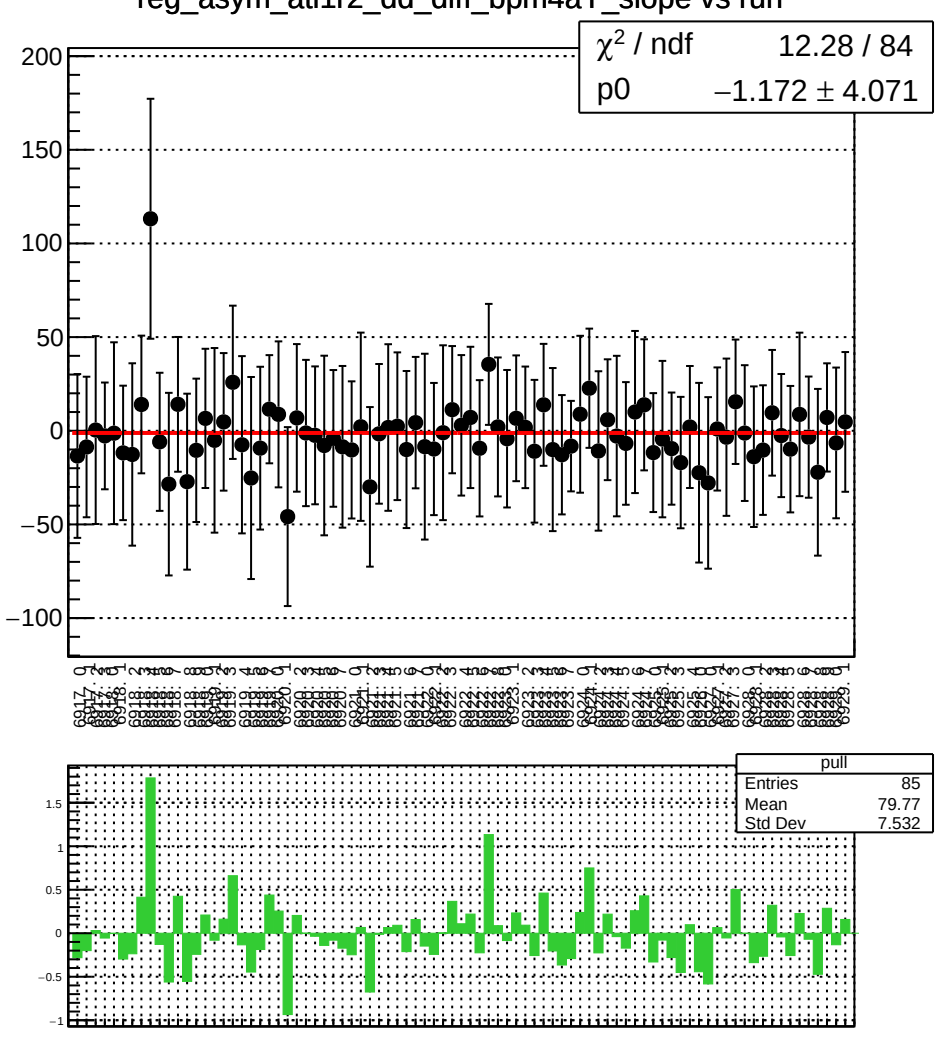

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.92 / 84
p0 62.62 ± 5.337
pull
Entries 85
Mean 66.79
Std Dev 42.3

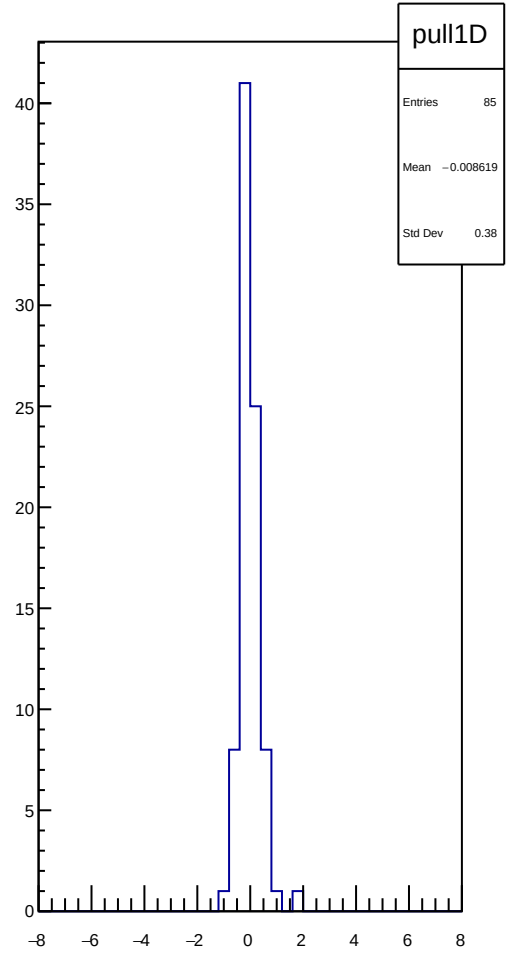

pull1D
Entries 85
Mean −0.007731
Std Dev 0.3745

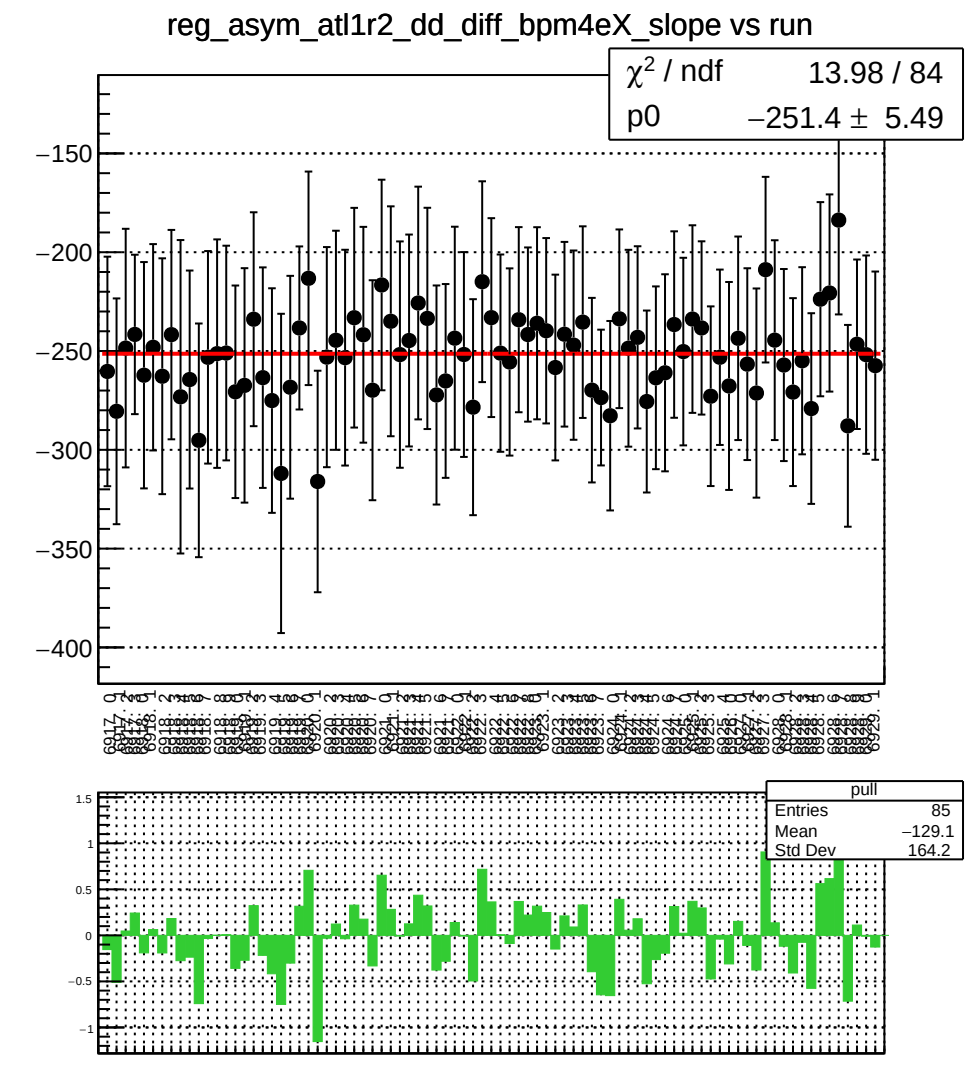

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 41.95 / 84
p0 −141.8 ± 0.2278
pull
Entries 85
Mean −413.8
Std Dev 457.9
pull1D
Entries 85
Mean −0.01126
Std Dev 0.7025

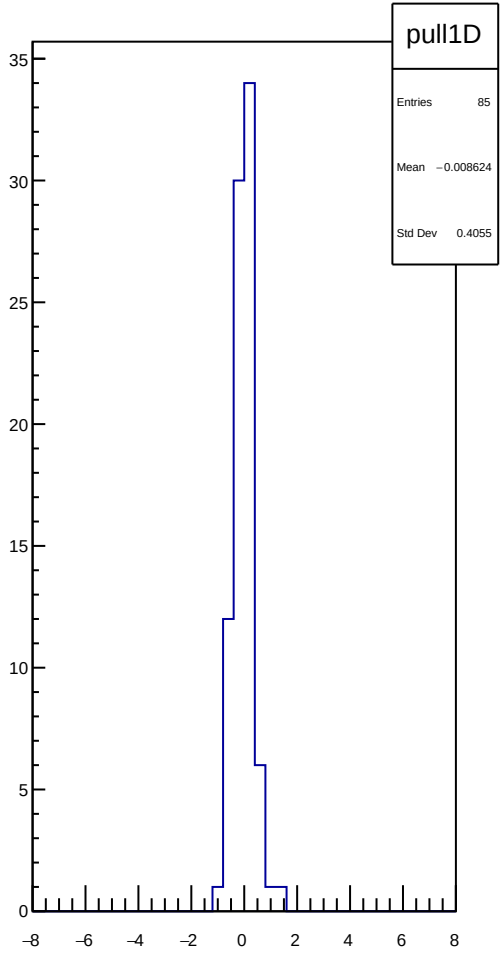

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 14.1 / 84
p0 232.7 ± 5.92
pull
Entries 85
Mean −140.7
Std Dev 176.8

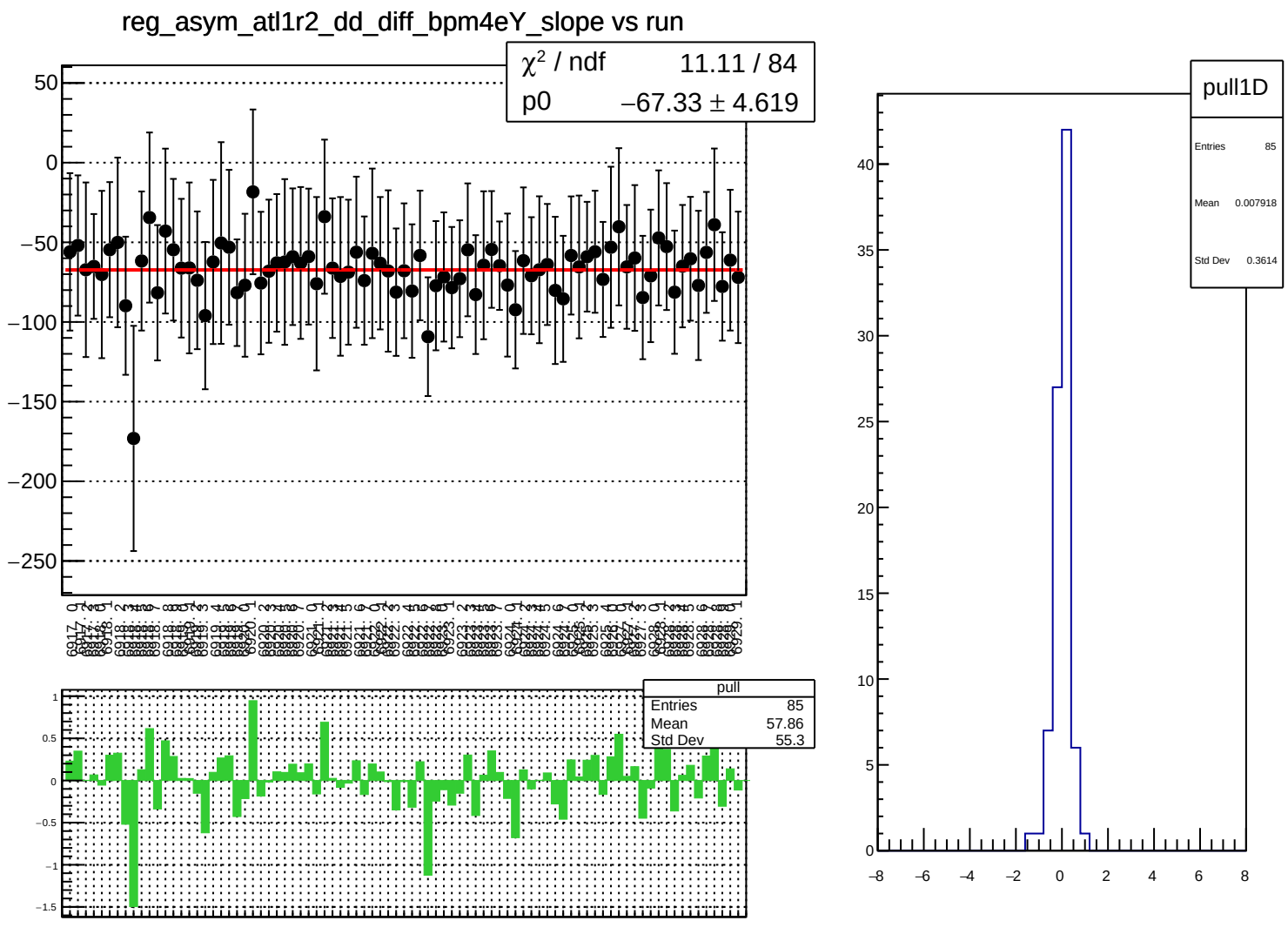

pull1D
Entries 85
Mean 0.009051
Std Dev 0.4071

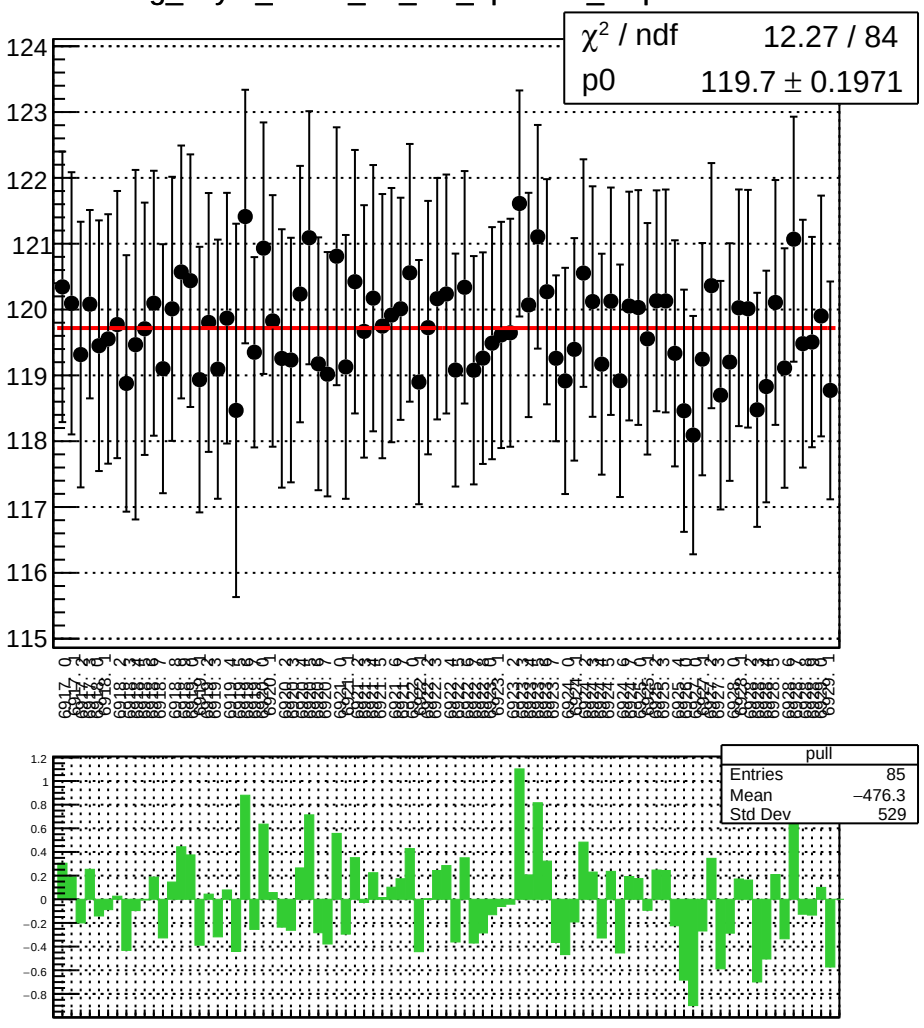

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.28 / 84
p0 −1.172 ± 4.071
pull
Entries 85
Mean 79.77
Std Dev 7.532

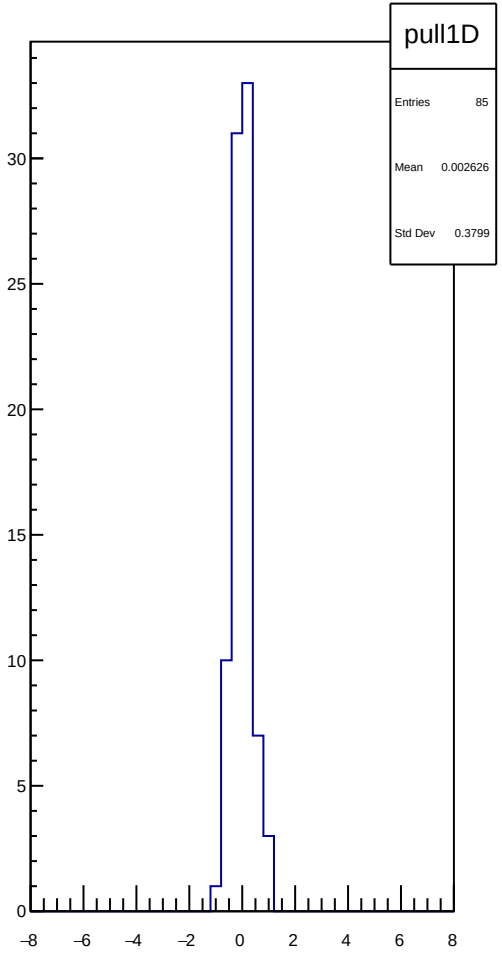

pull1D
Entries 85
Mean −0.008619
Std Dev 0.38

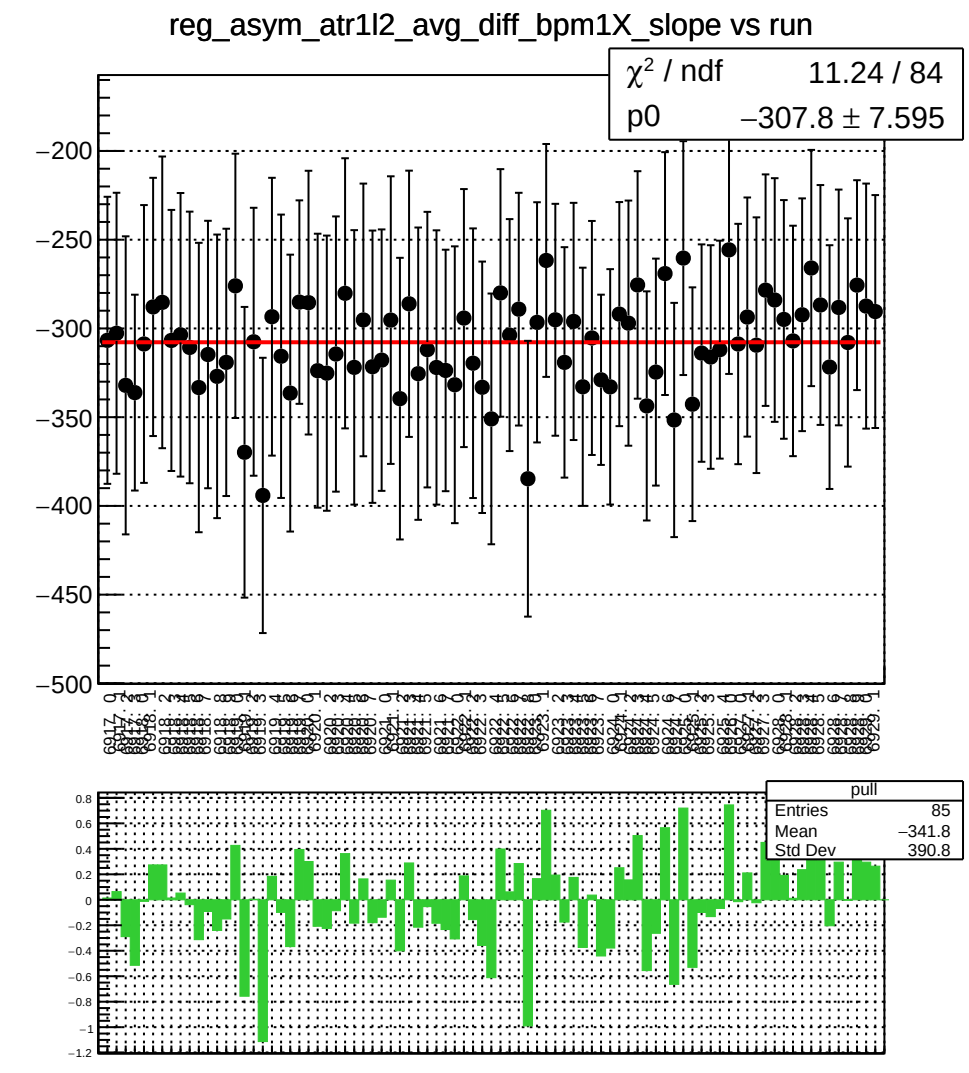

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.98 / 84
p0 −251.4 ± 5.49
−150
−200
−250
−300
−350
−400
pull
Entries 85
Mean −129.1
Std Dev 164.2
1.5
1
0.5
0
−0.5
−1

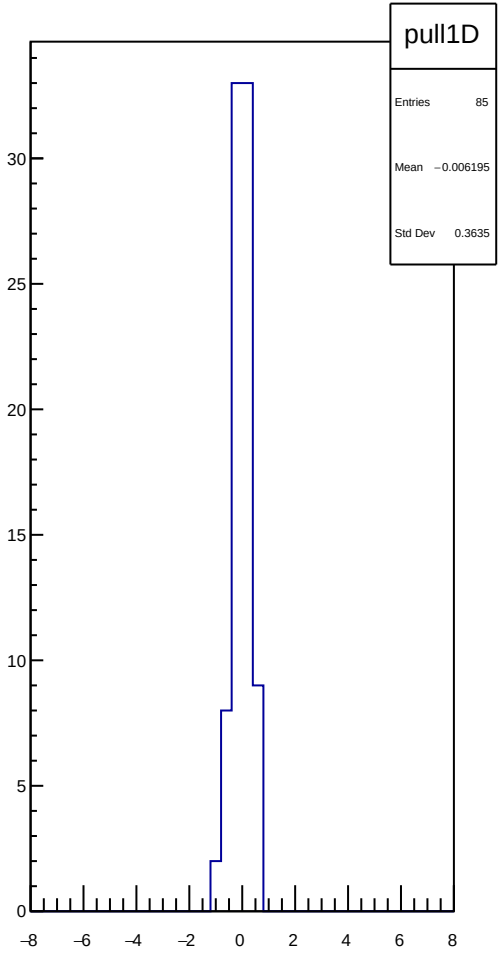

pull1D
Entries 85
Mean −0.008624
Std Dev 0.4055
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

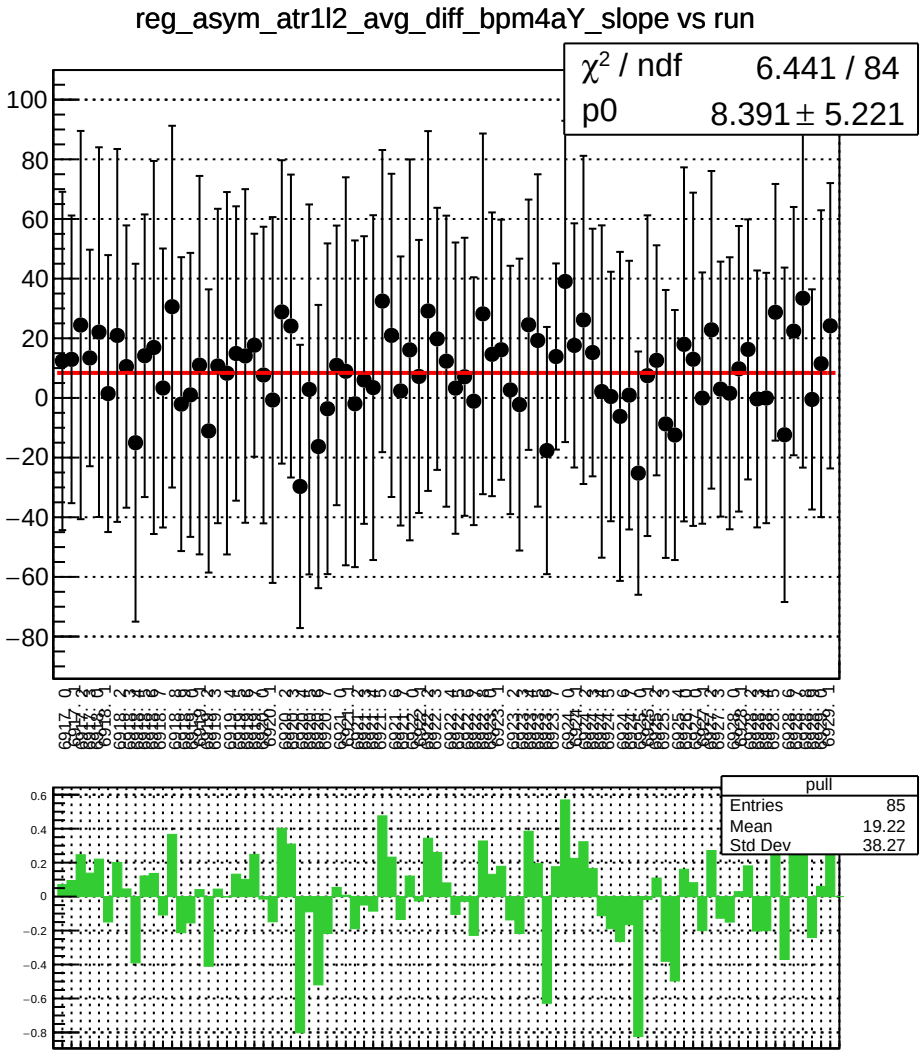

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.11 / 84
p0 −67.33 ± 4.619
pull
Entries 85
Mean 57.86
Std Dev 55.3
pull1D
Entries 85
Mean 0.007918
Std Dev 0.3614

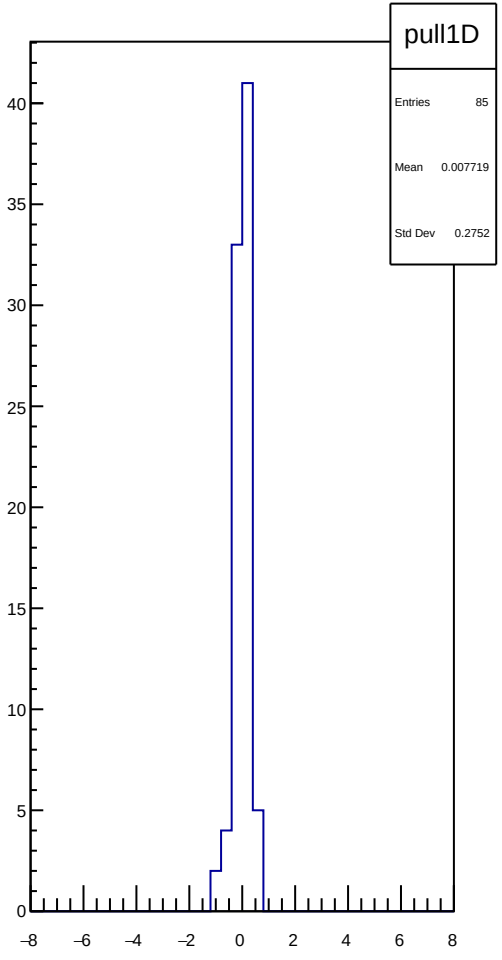

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 12.27 / 84
p0 119.7 ± 0.1971
pull
Entries 85
Mean −476.3
Std Dev 529

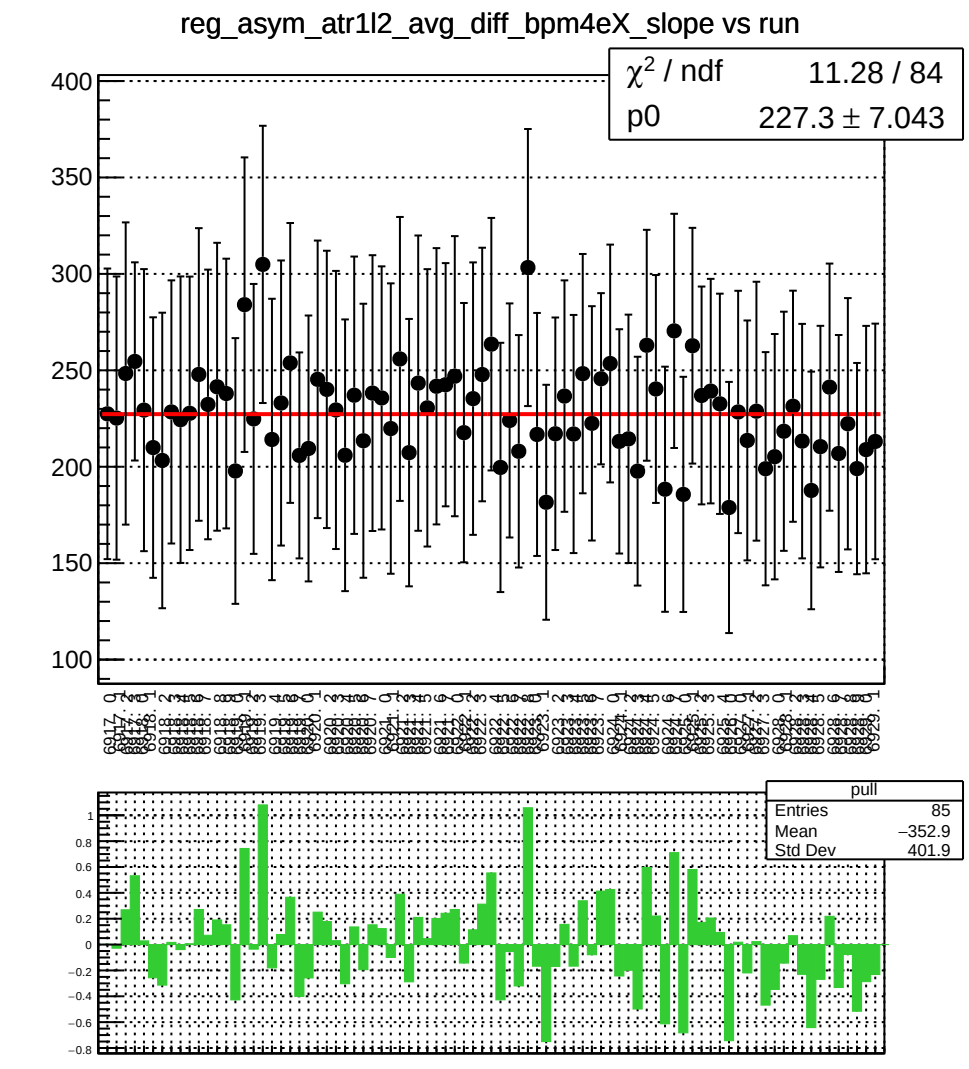

pull1D
Entries 85
Mean 0.002626
Std Dev 0.3799

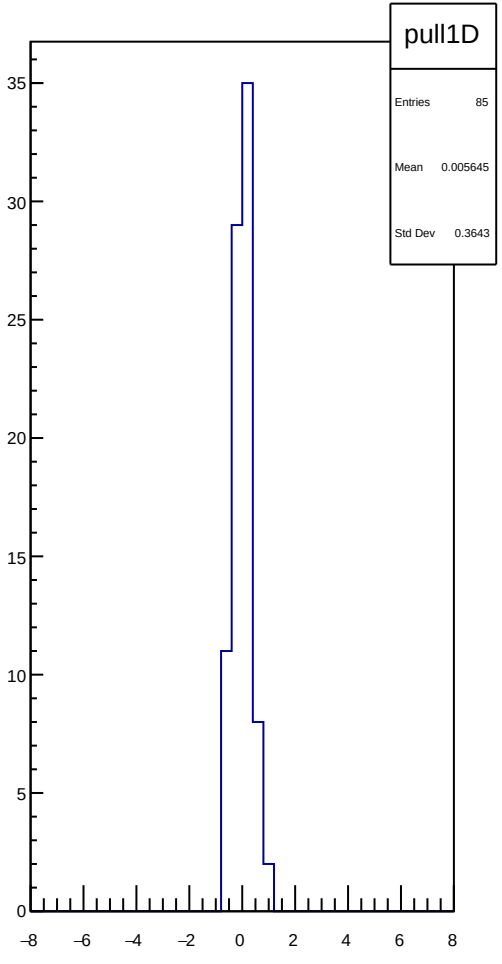

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.24 / 84
p0 −307.8 ± 7.595
pull
Entries 85
Mean −341.8
Std Dev 390.8

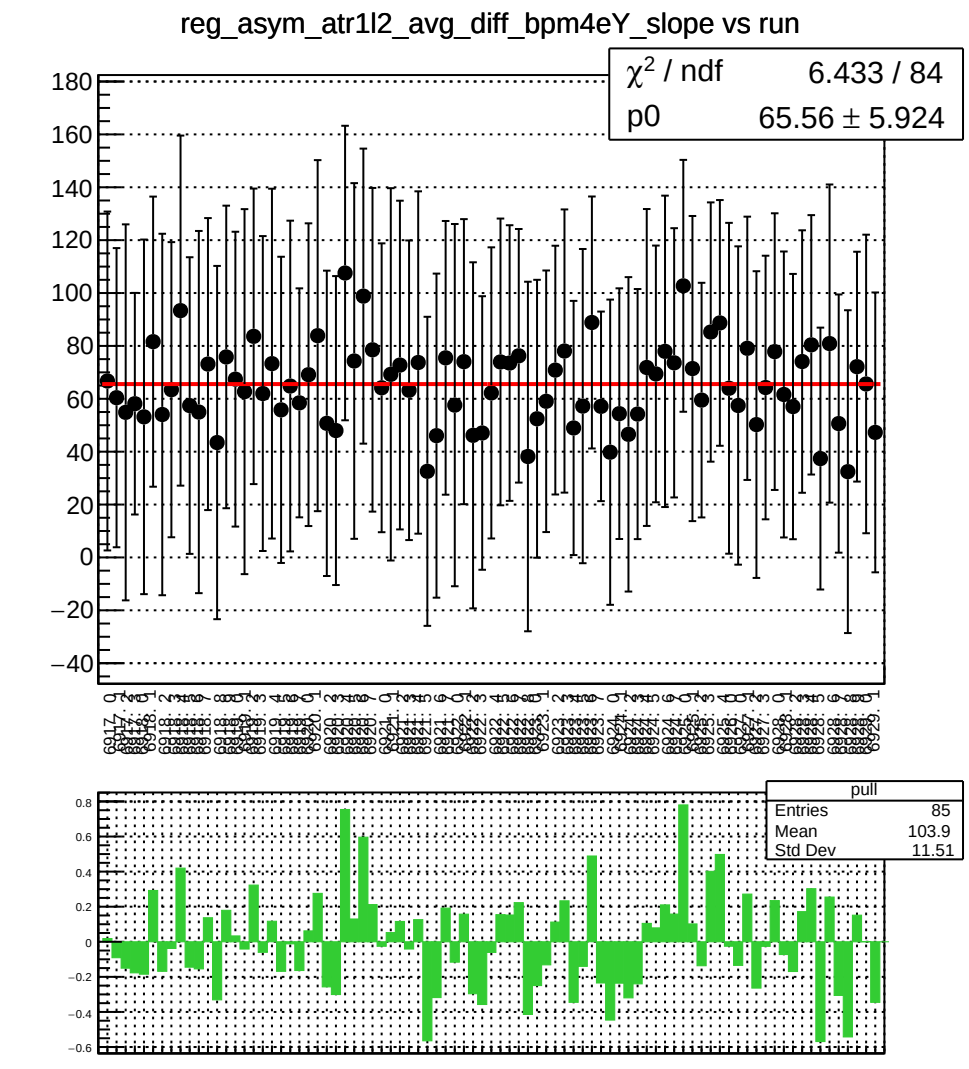

pull1D
Entries 85
Mean −0.006195
Std Dev 0.3635

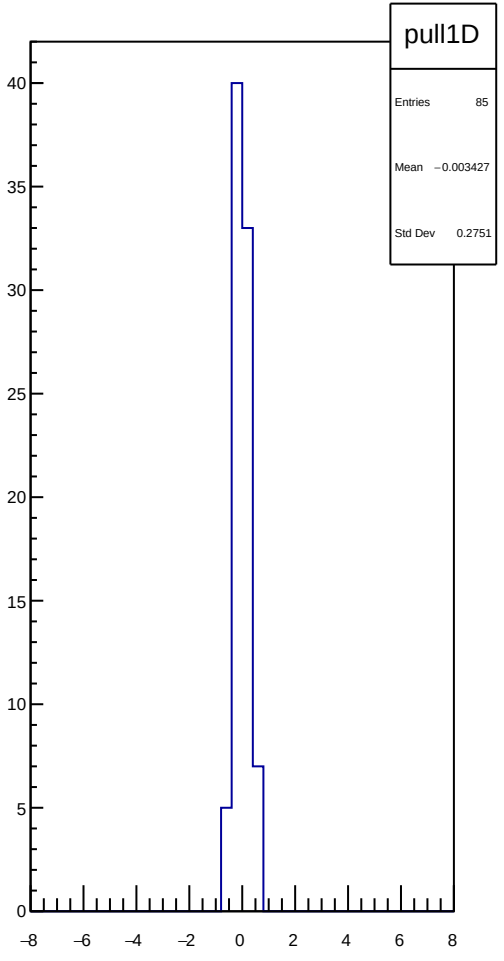

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.441 / 84
p0 8.391 ± 5.221
pull
Entries 85
Mean 19.22
Std Dev 38.27

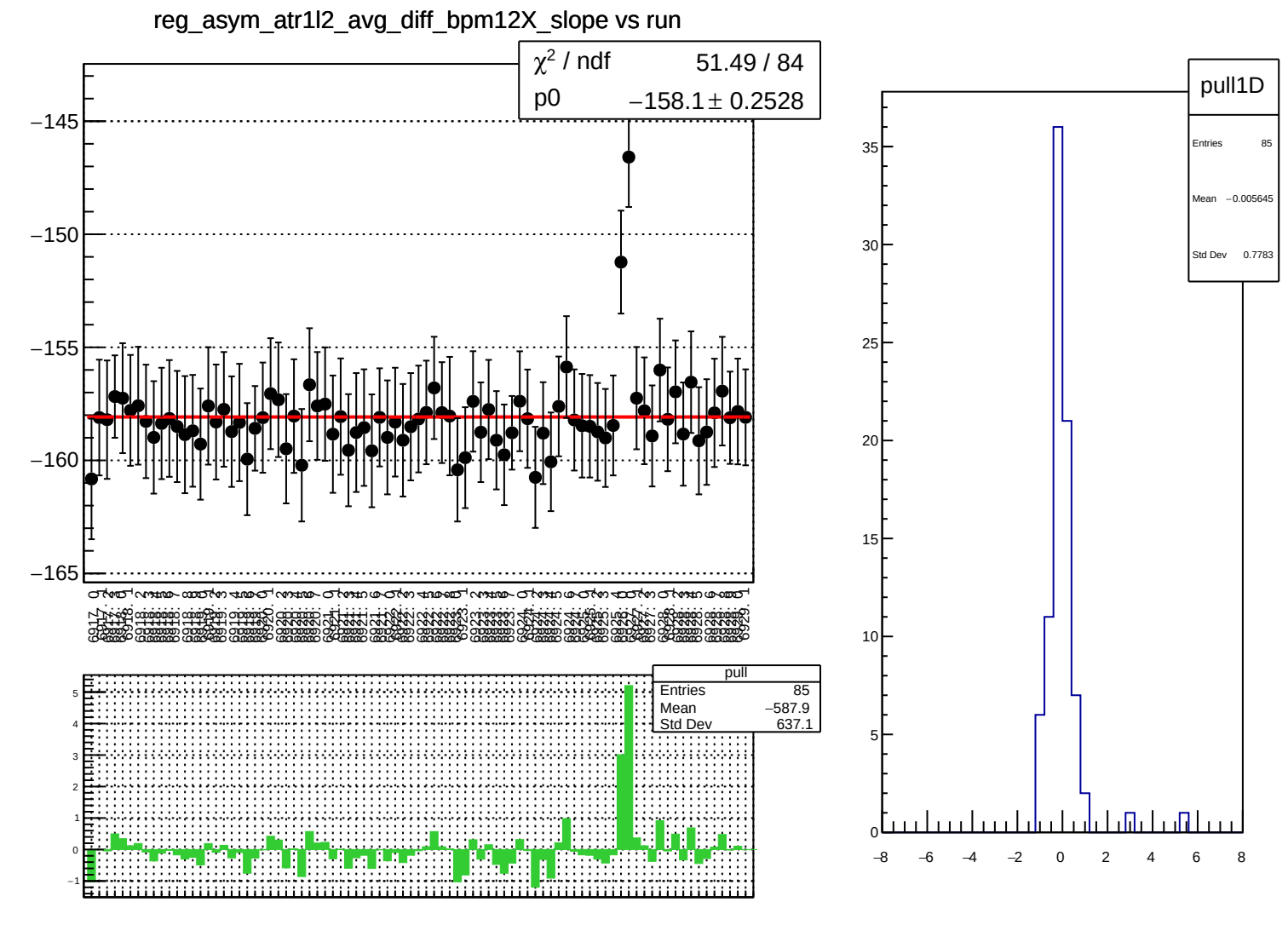

pull1D
Entries 85
Mean 0.007719
Std Dev 0.2752

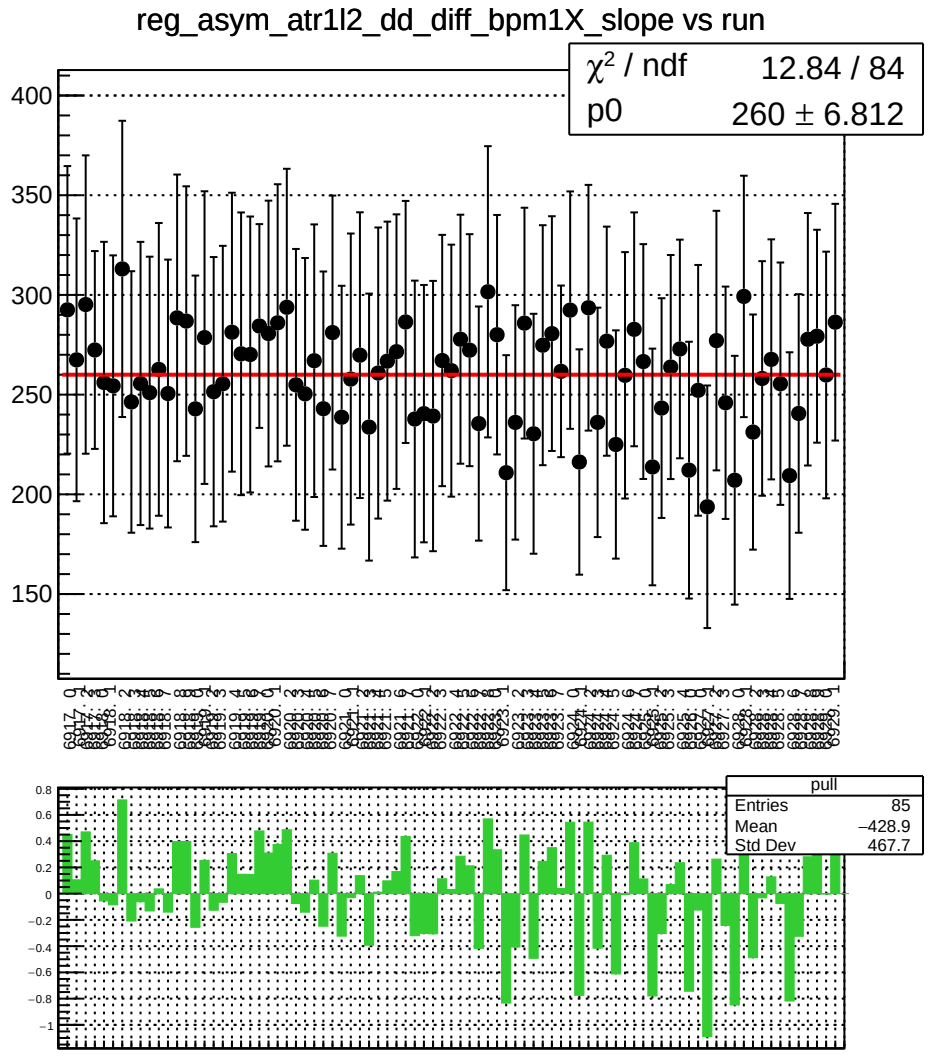

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.28 / 84
p0 227.3 ± 7.043
pull
Entries 85
Mean −352.9
Std Dev 401.9

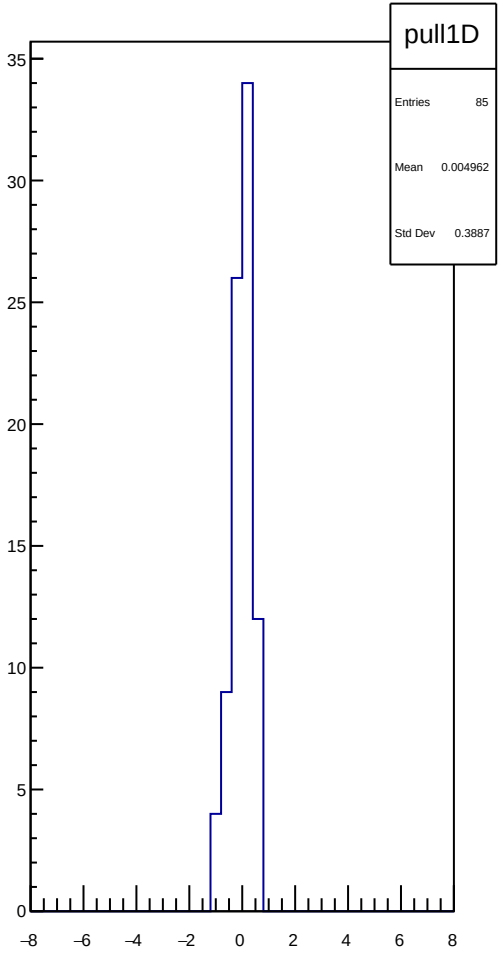

pull1D
Entries 85
Mean 0.005645
Std Dev 0.3643

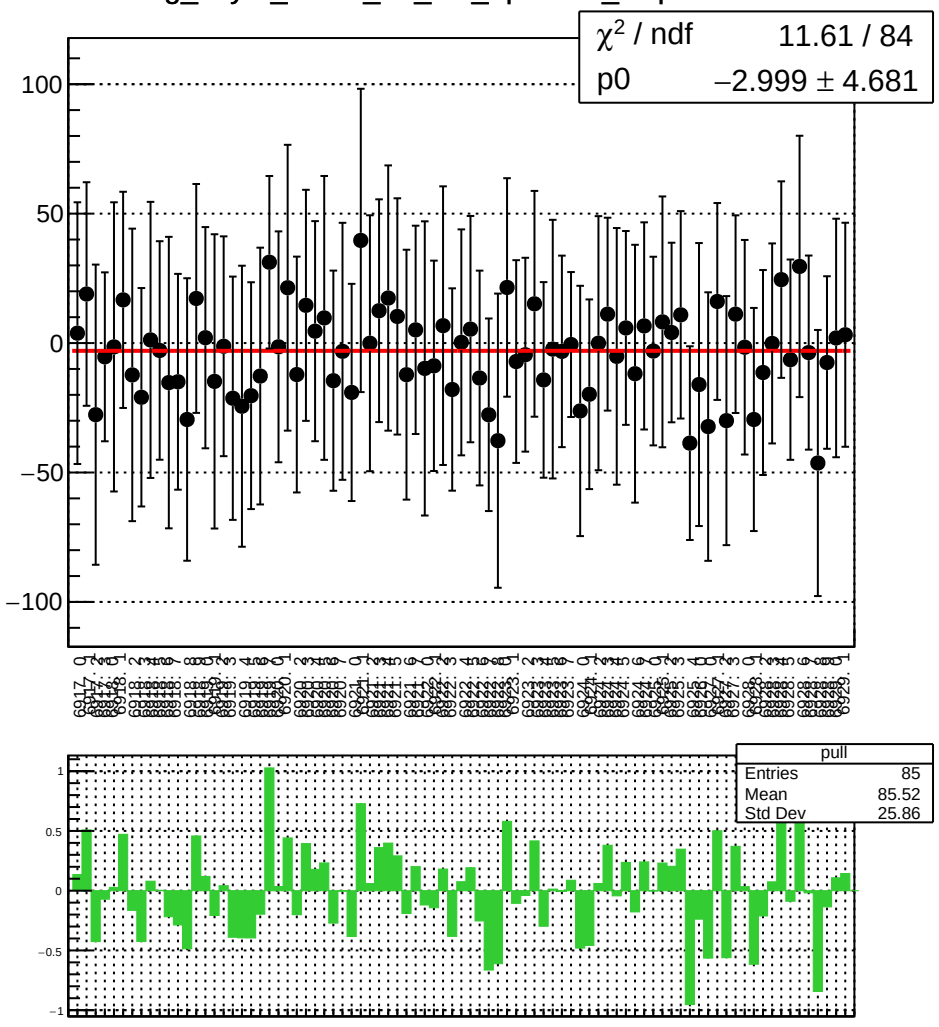

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.433 / 84
p0 65.56 ± 5.924
pull
Entries 85
Mean 103.9
Std Dev 11.51

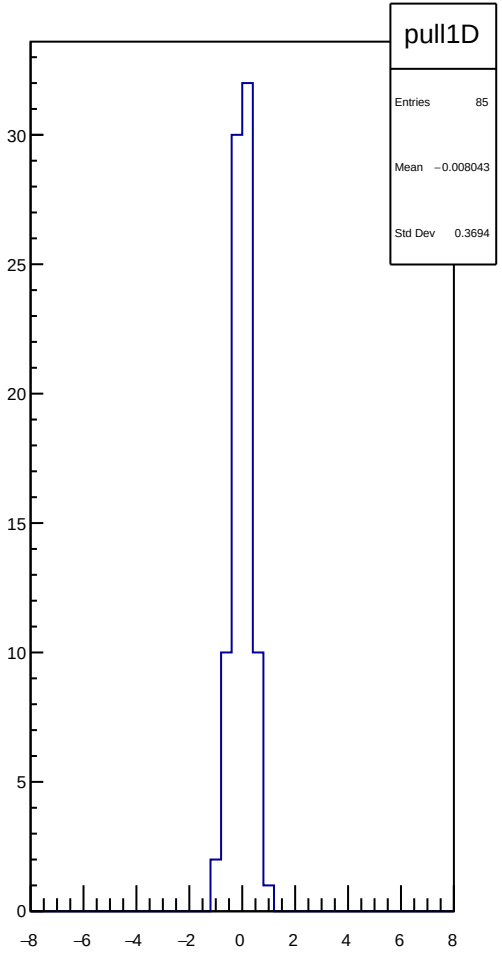

pull1D
Entries 85
Mean −0.003427
Std Dev 0.2751

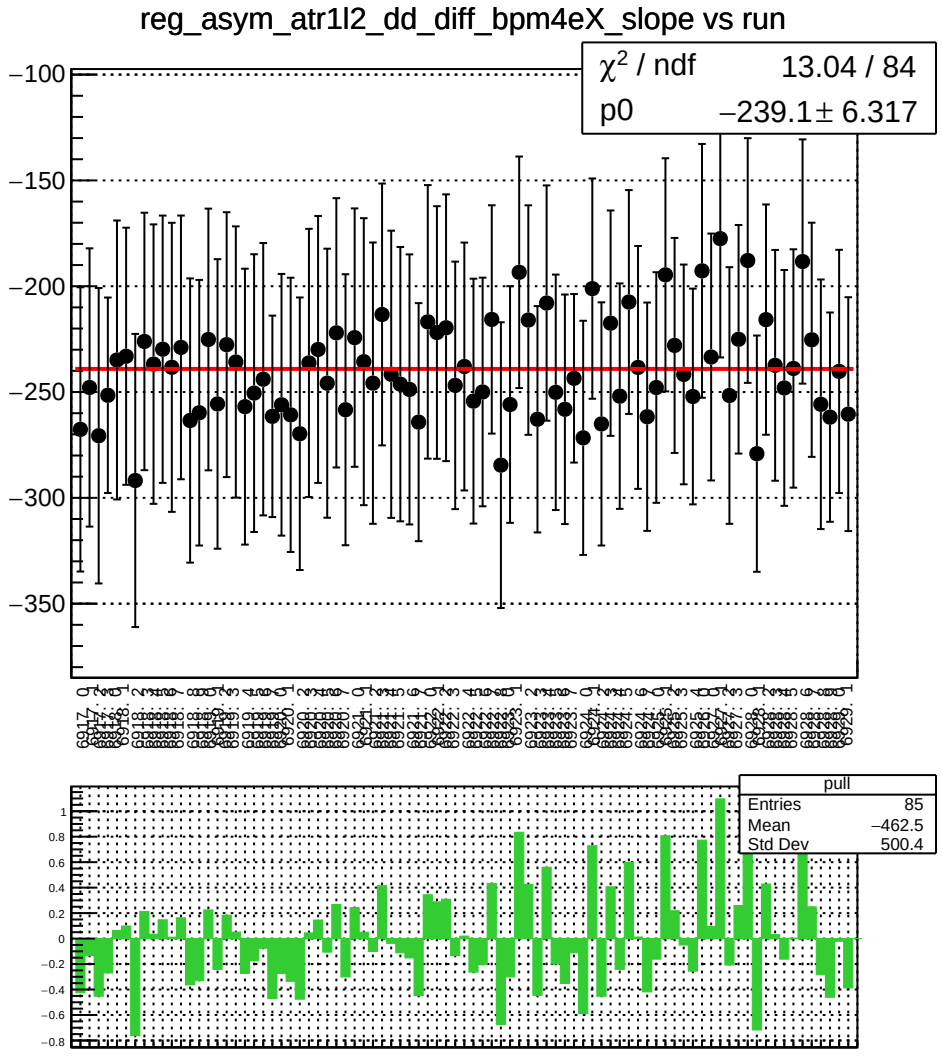

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 51.49 / 84
p0 −158.1 ± 0.2528
−145
−150
−155
−160
−165
pull
Entries 85
Mean −587.9
Std Dev 637.1
pull1D
Entries 85
Mean −0.005645
Std Dev 0.7783

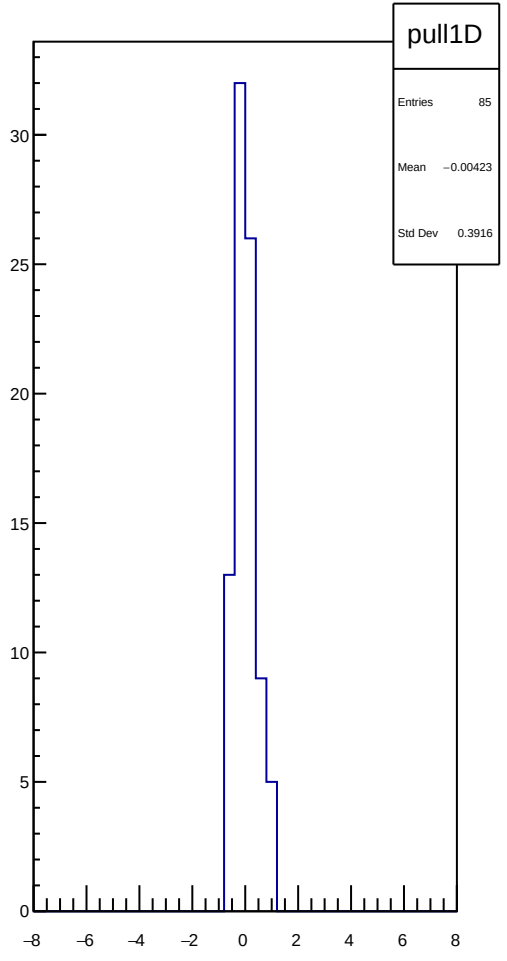

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 12.84 / 84
p0 260 ± 6.812
pull
Entries 85
Mean −428.9
Std Dev 467.7

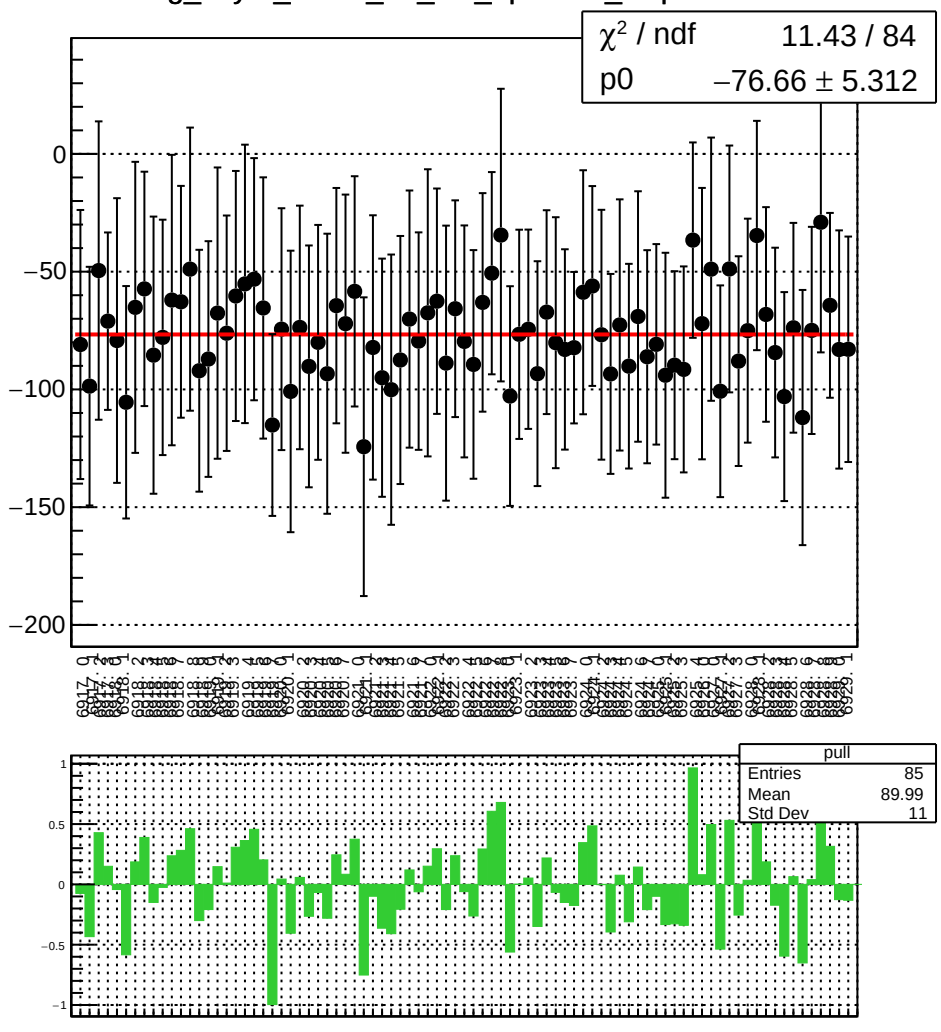

pull1D
Entries 85
Mean 0.004962
Std Dev 0.3887

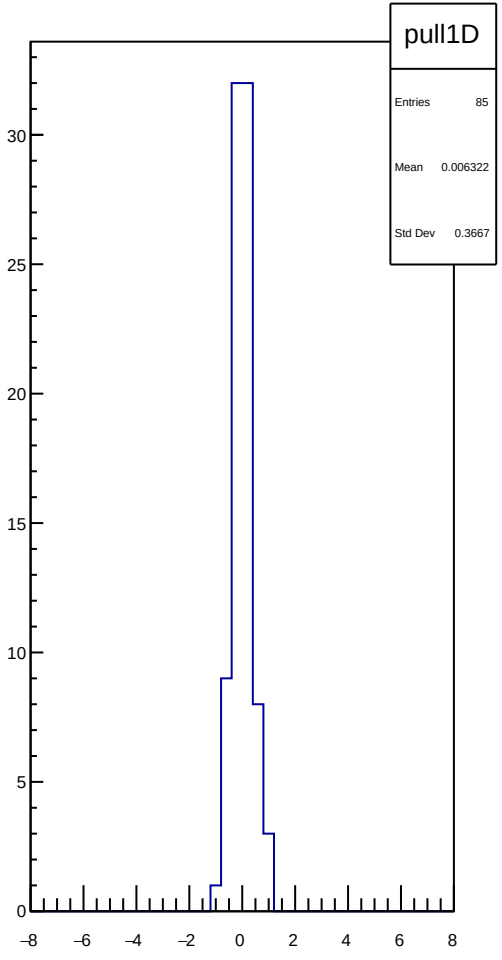

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.61 / 84
p0 −2.999 ± 4.681
pull
Entries 85
Mean 85.52
Std Dev 25.86

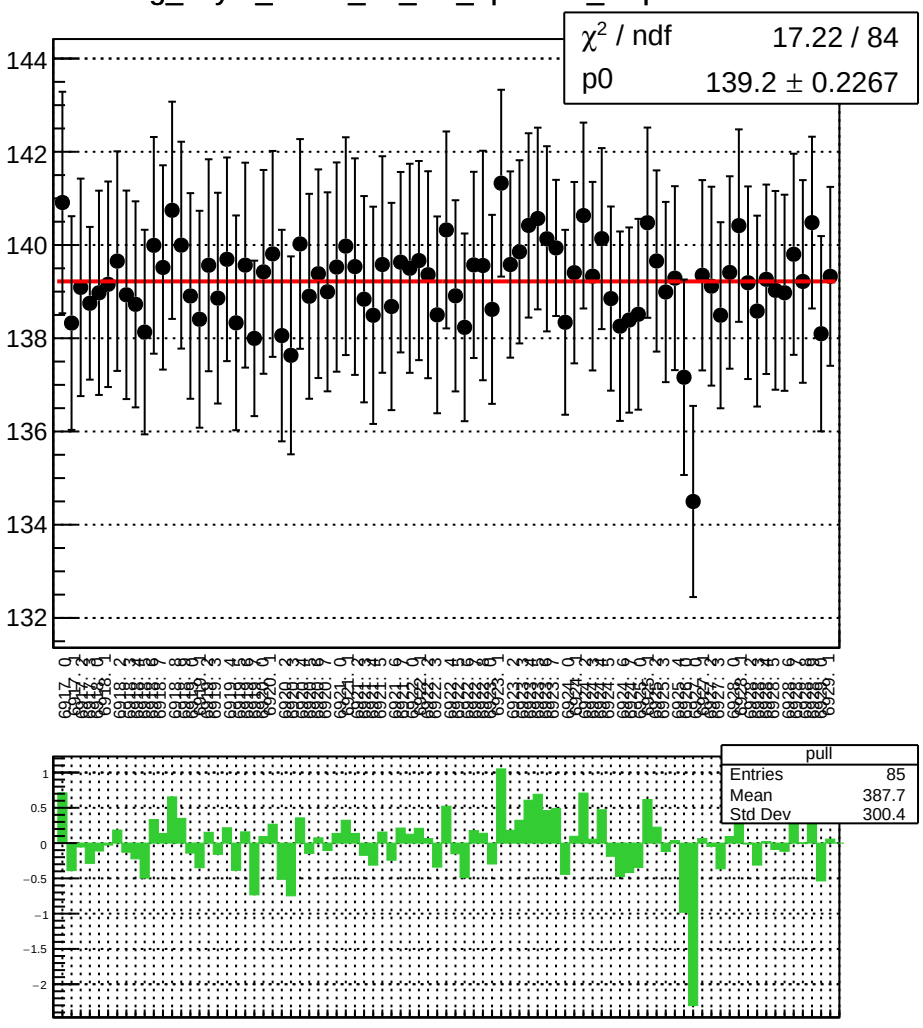

pull1D
Entries 85
Mean −0.008043
Std Dev 0.3694

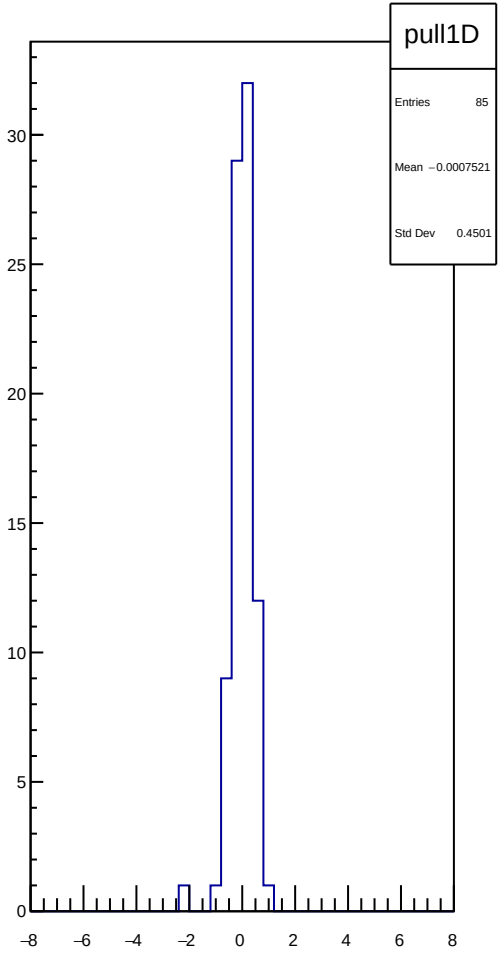

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.04 / 84
p0 −239.1 ± 6.317
−100
−150
−200
−250
−300
−350
pull
Entries 85
Mean −462.5
Std Dev 500.4
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

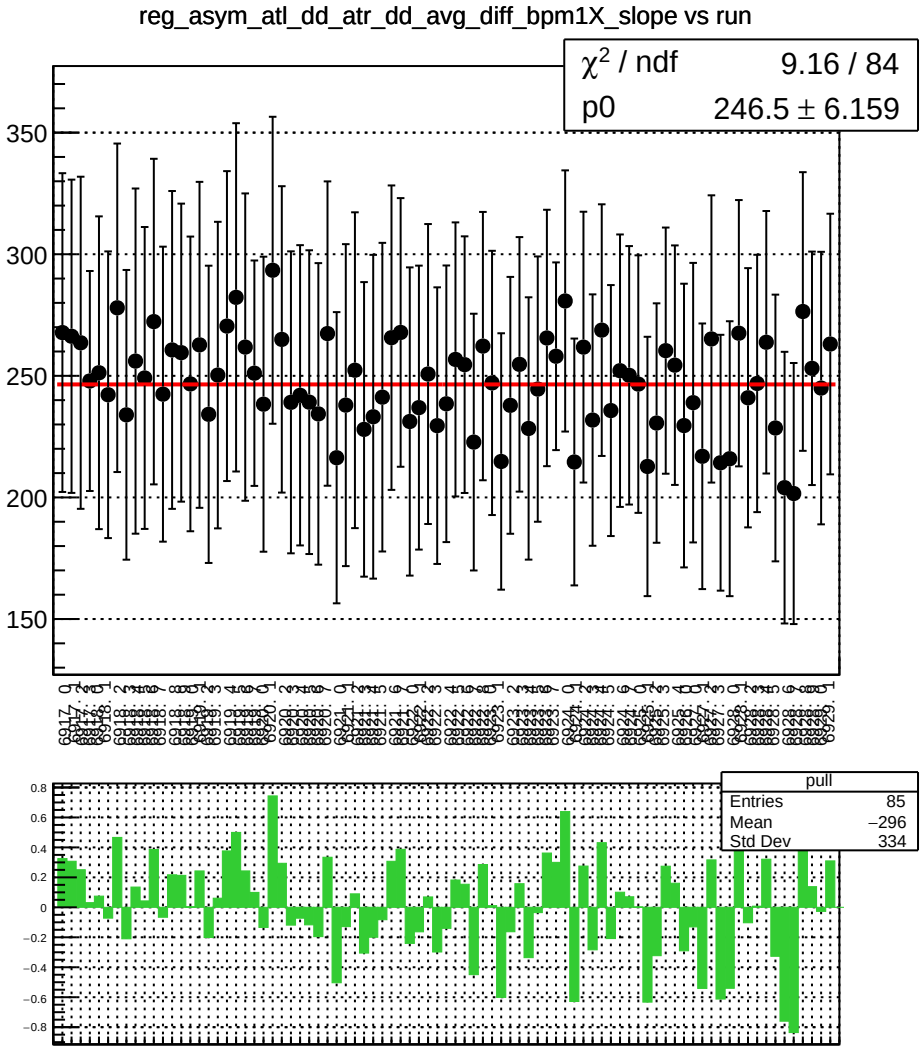

pull1D
Entries 85
Mean −0.00423
Std Dev 0.3916
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

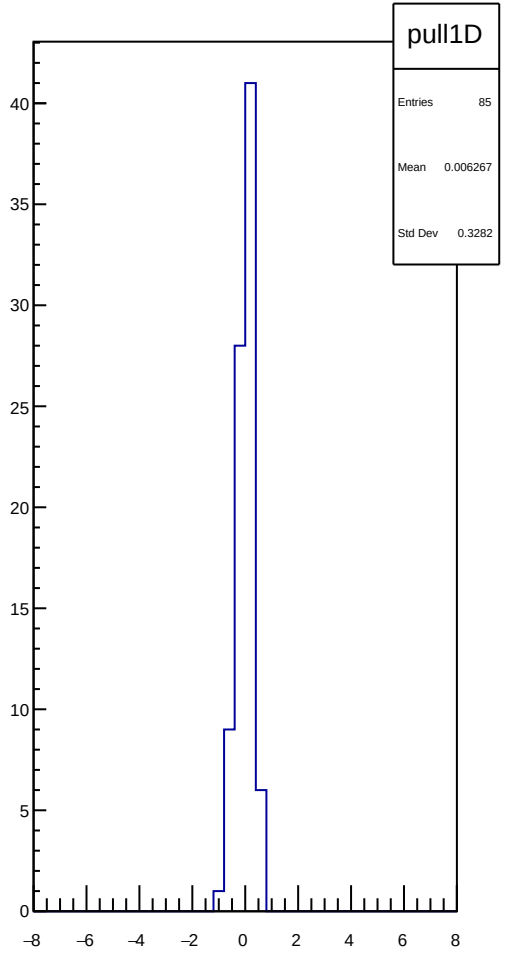

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.43 / 84
p0 −76.66 ± 5.312
pull
Entries 85
Mean 89.99
Std Dev 11

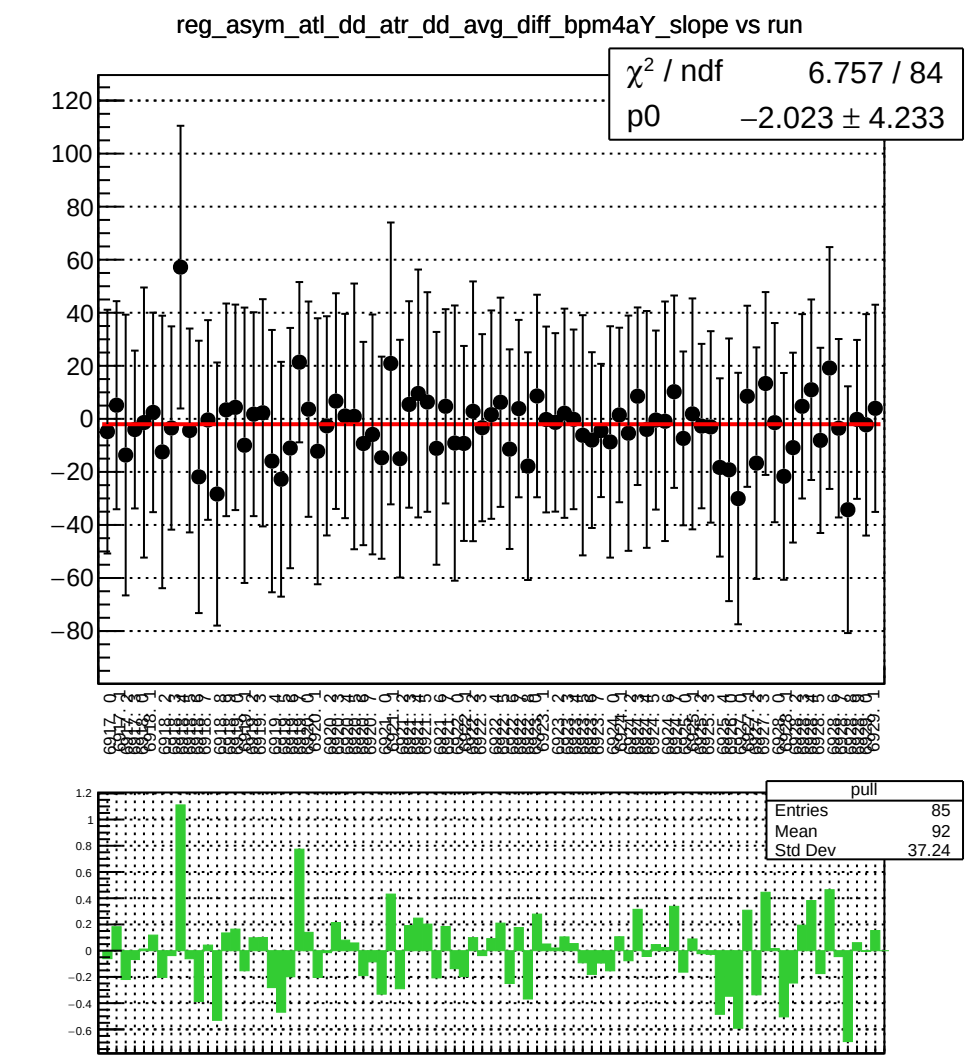

pull1D
Entries 85
Mean 0.006322
Std Dev 0.3667

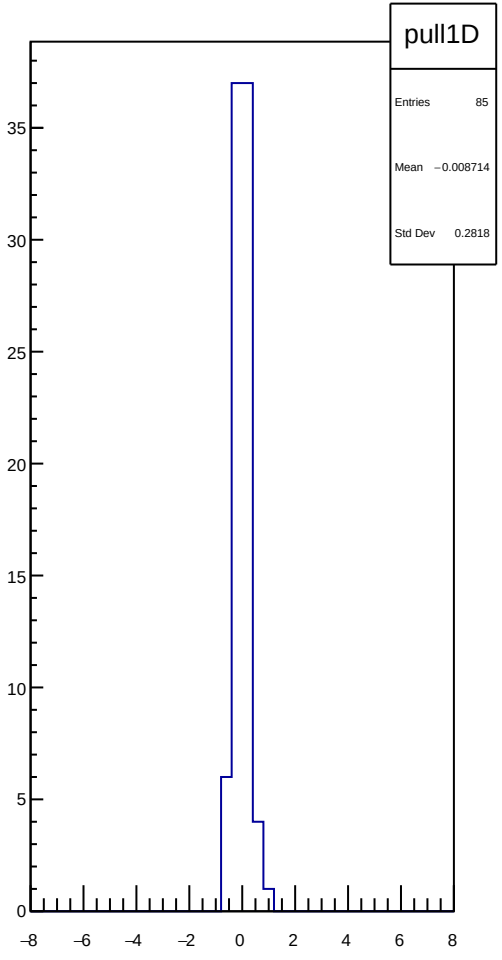

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.22 / 84
p0 139.2 ± 0.2267
144
142
140
138
136
134
132
pull
Entries 85
Mean 387.7
Std Dev 300.4
1
0.5
0
−0.5
−1
−1.5
−2

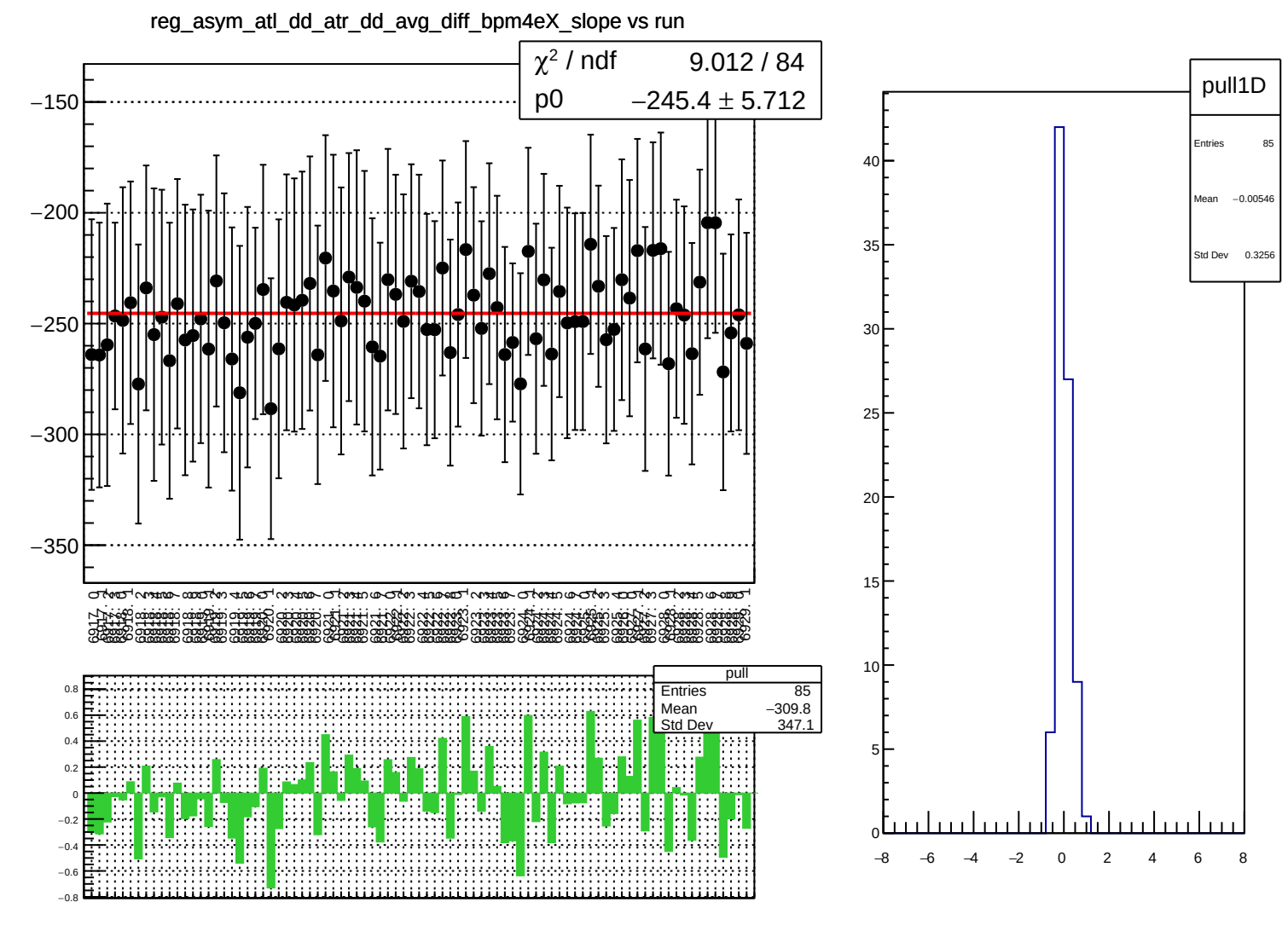

pull1D
Entries 85
Mean −0.0007521
Std Dev 0.4501
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

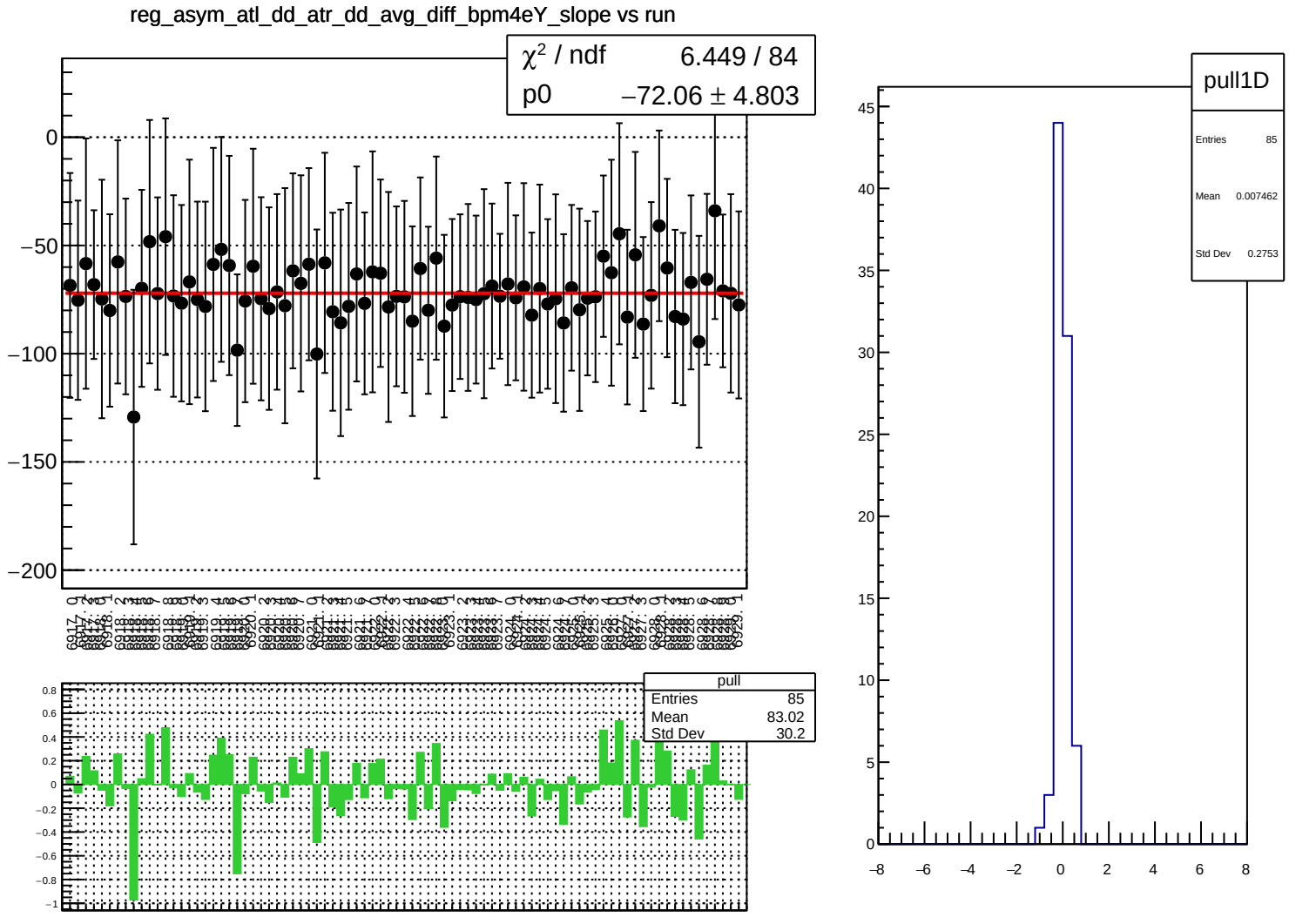

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 9.16 / 84
p0 246.5 ± 6.159
350
300
250
200
150
pull
Entries 85
Mean −296
Std Dev 334
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

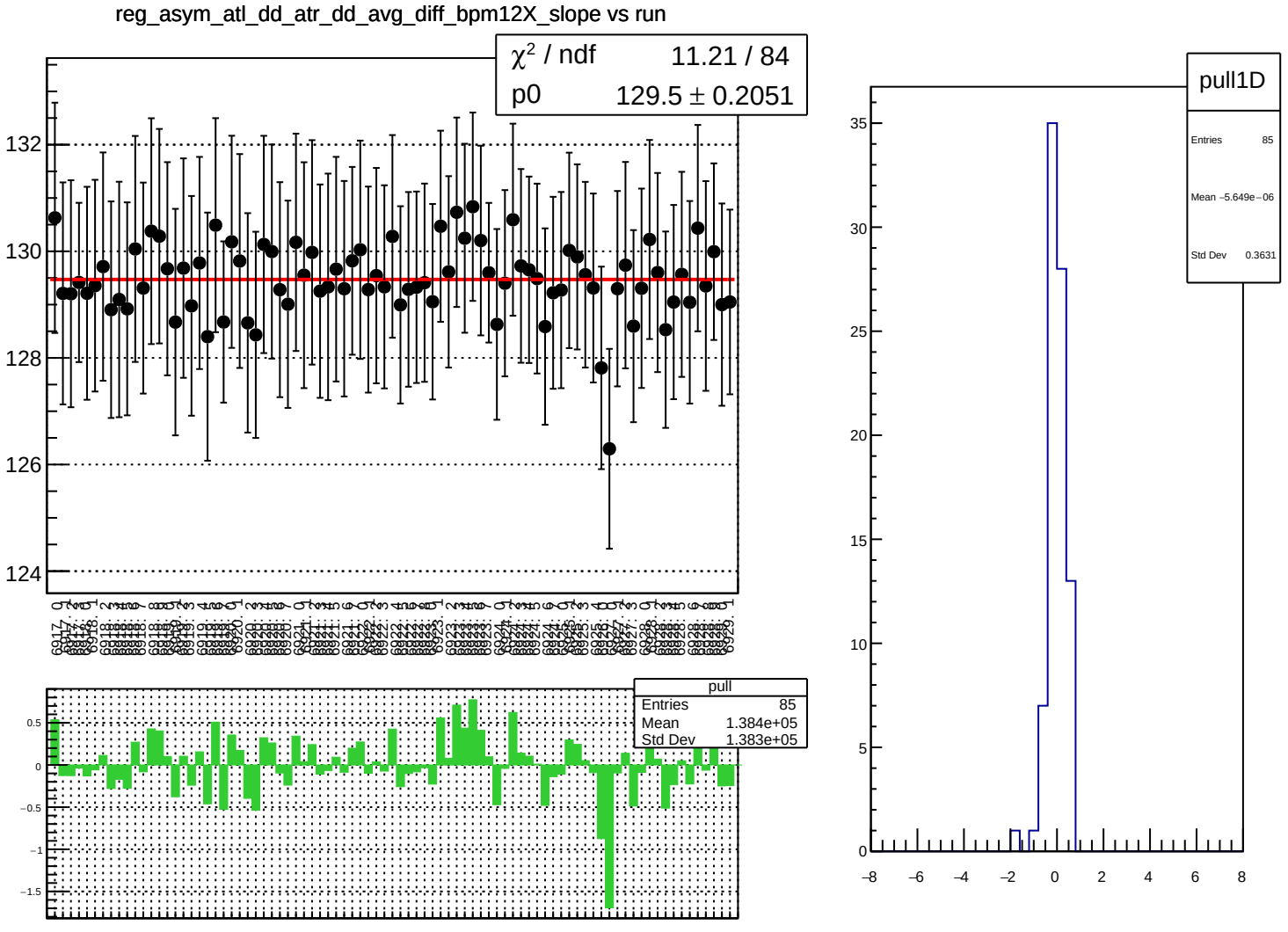

pull1D
Entries 85
Mean 0.006267
Std Dev 0.3282
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

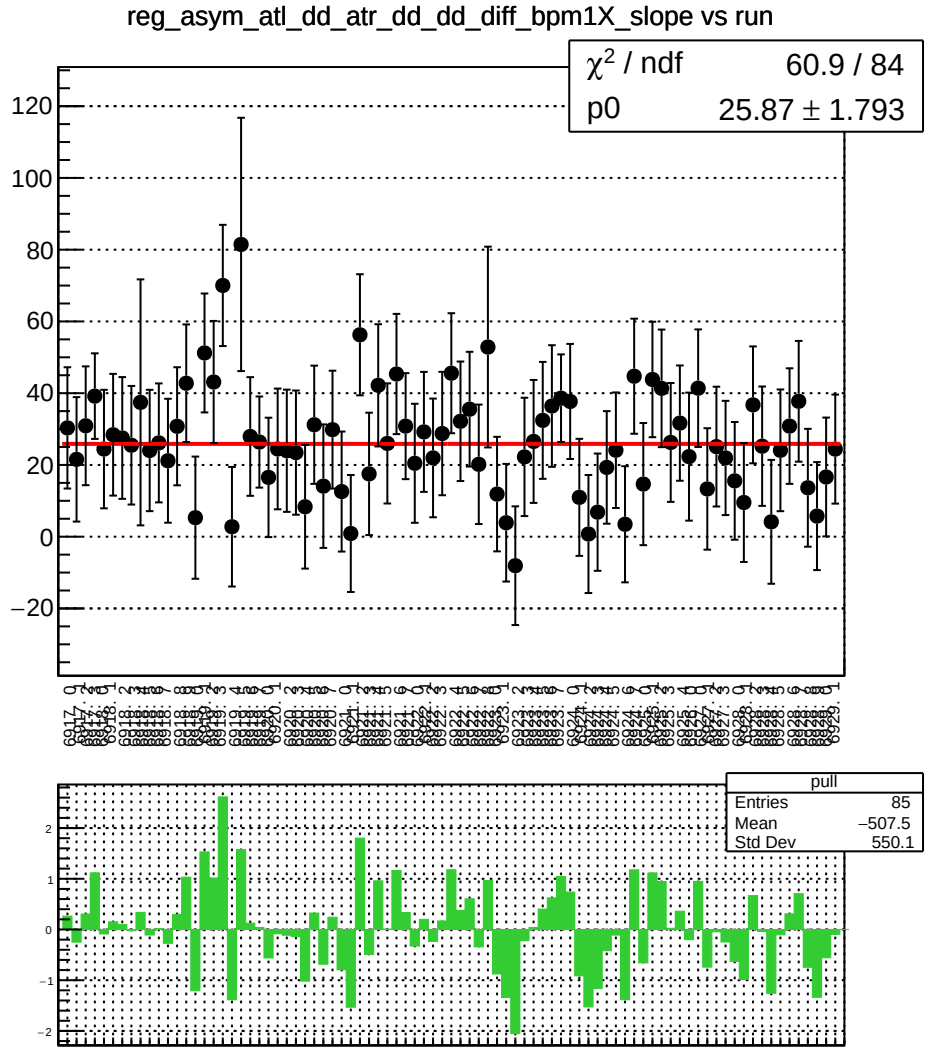

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.757 / 84
p0 −2.023 ± 4.233
pull
Entries 85
Mean 92
Std Dev 37.24

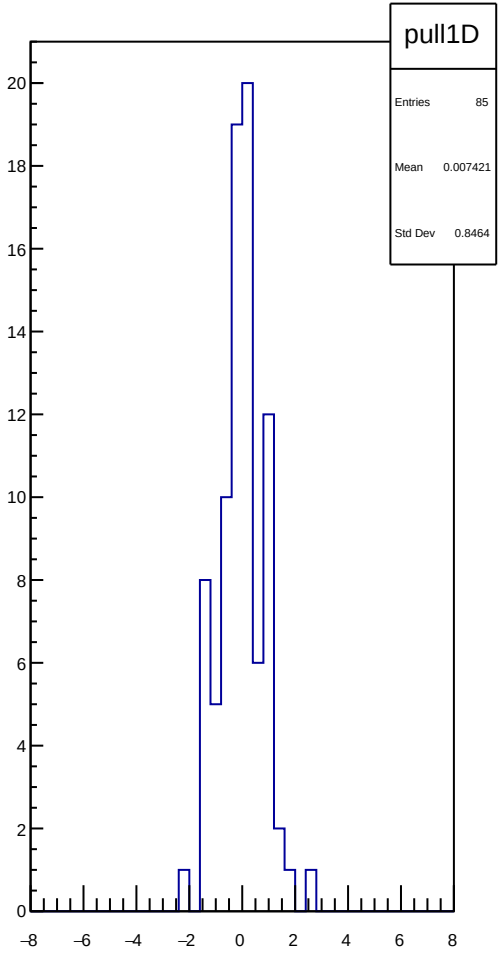

pull1D
Entries 85
Mean −0.008714
Std Dev 0.2818

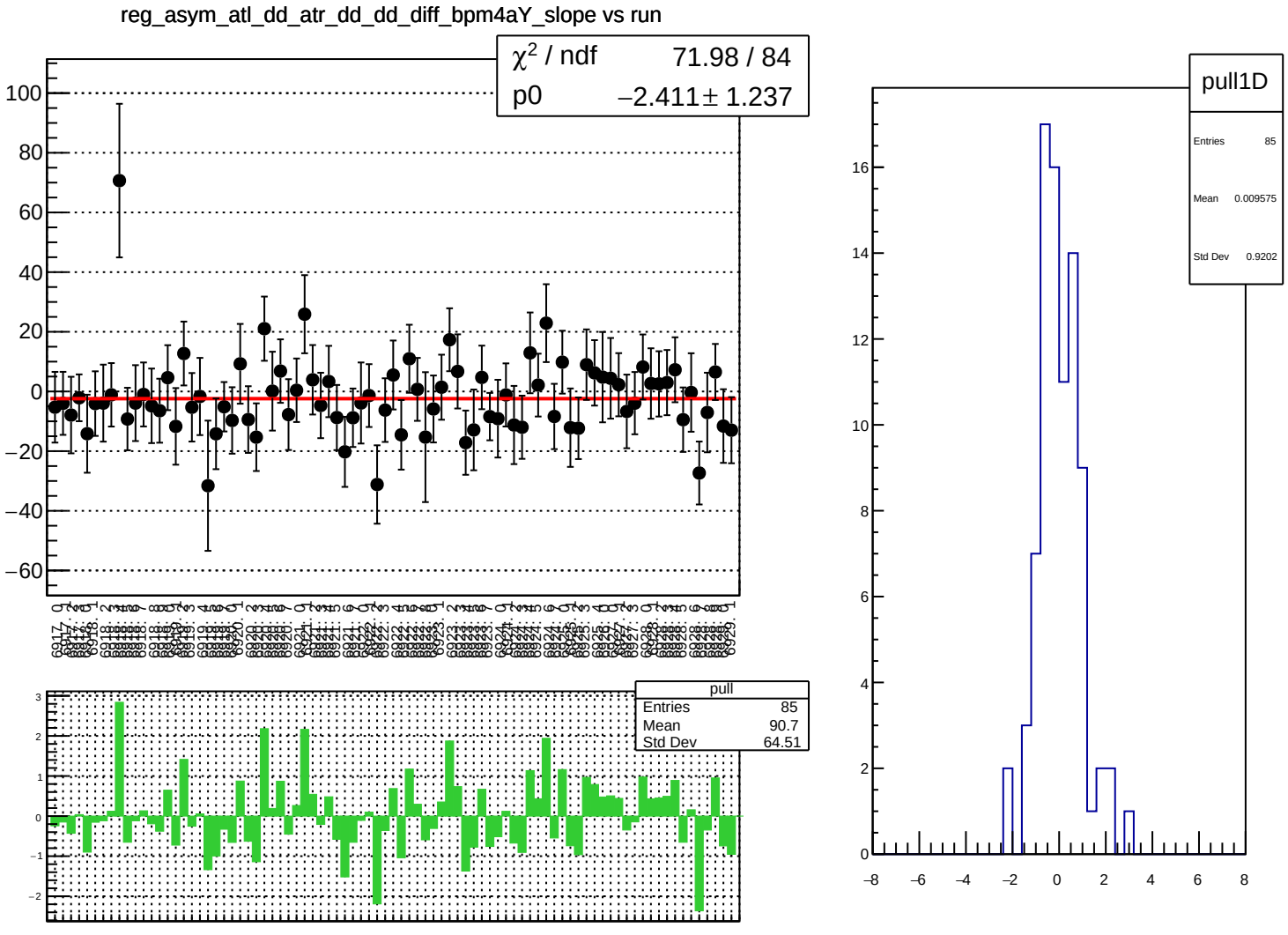

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.012 / 84
p0 −245.4 ± 5.712
−150
−200
−250
−300
−350
pull
Entries 85
Mean −309.8
Std Dev 347.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean −0.00546
Std Dev 0.3256
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

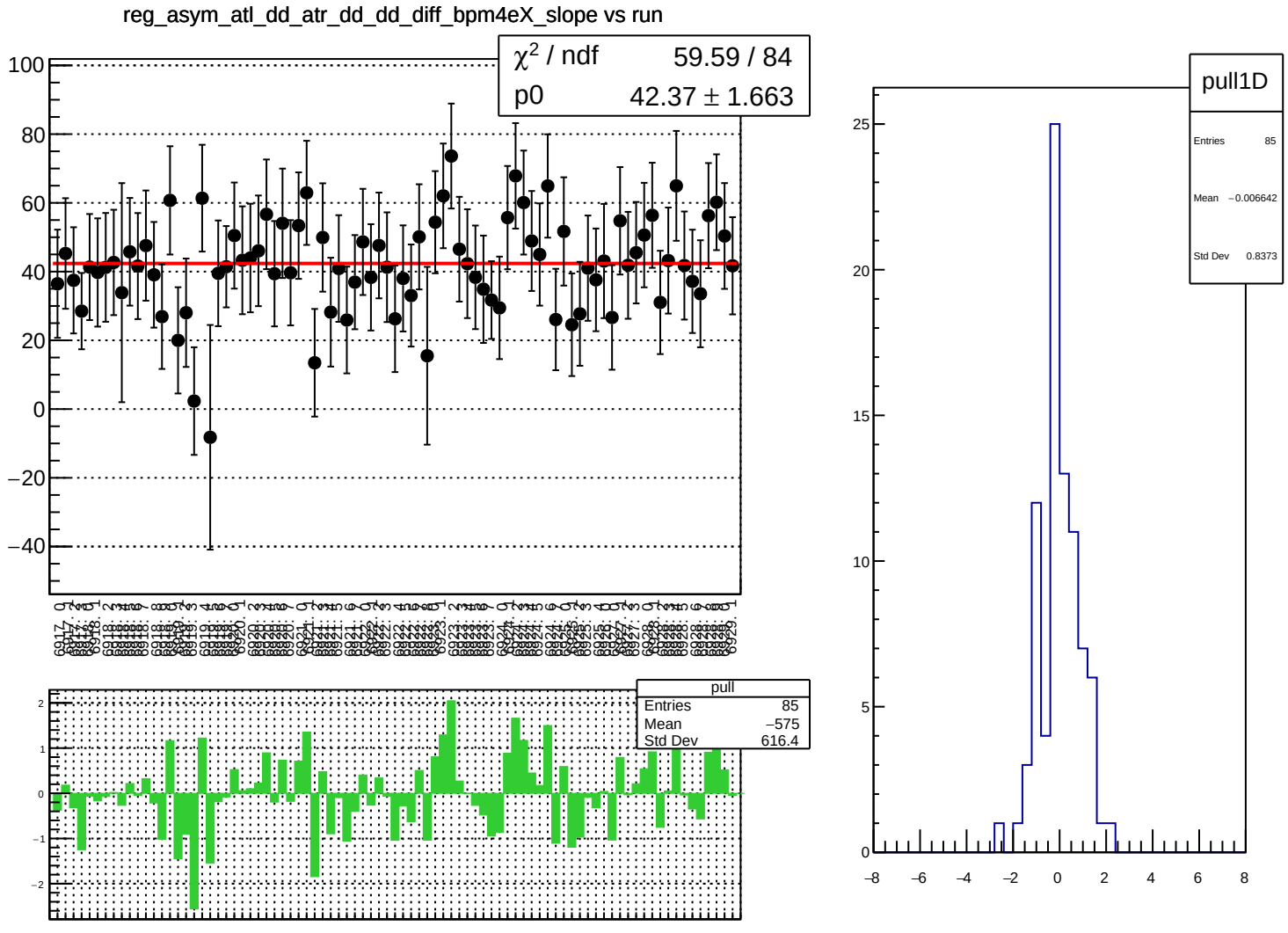

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.449 / 84
p0 −72.06 ± 4.803
pull
Entries 85
Mean 83.02
Std Dev 30.2
pull1D
Entries 85
Mean 0.007462
Std Dev 0.2753

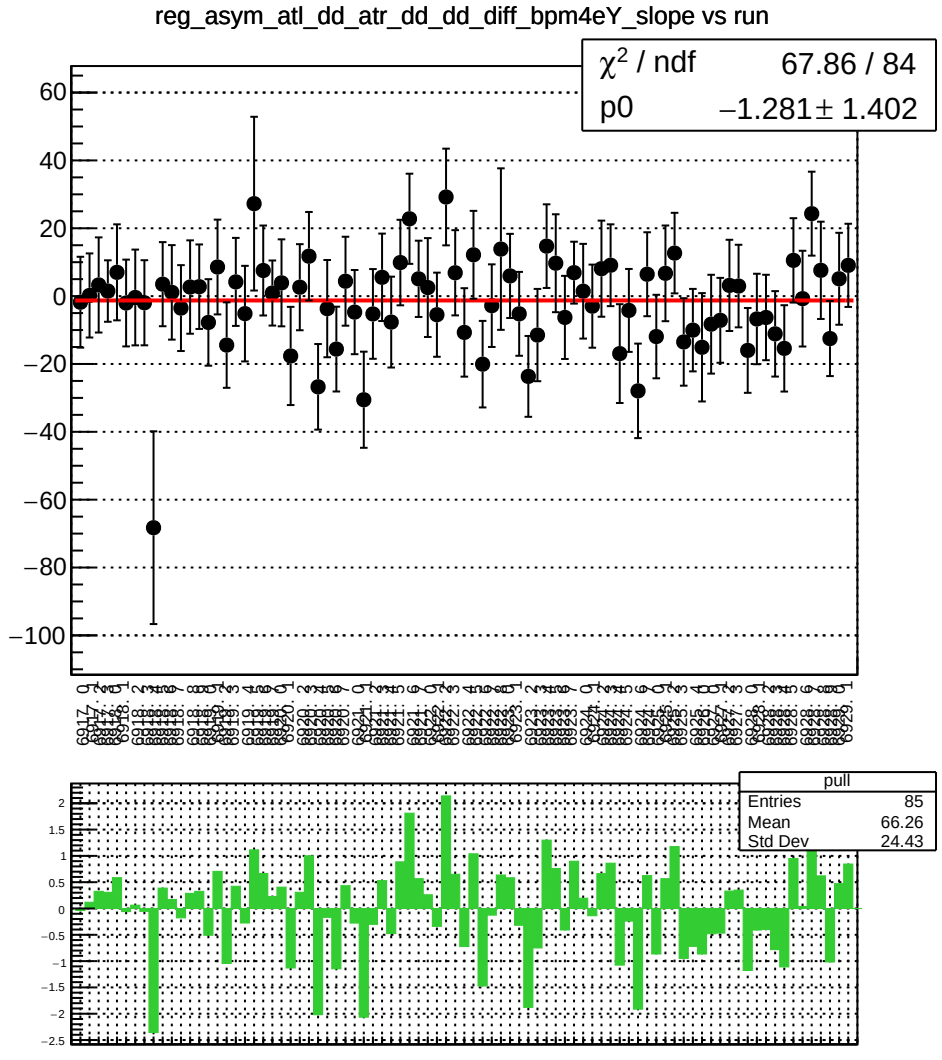

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 11.21 / 84
p0 129.5 ± 0.2051
132
130
128
126
124
pull
Entries 85
Mean 1.384e+05
Std Dev 1.383e+05
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −5.649e−06
Std Dev 0.3631
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

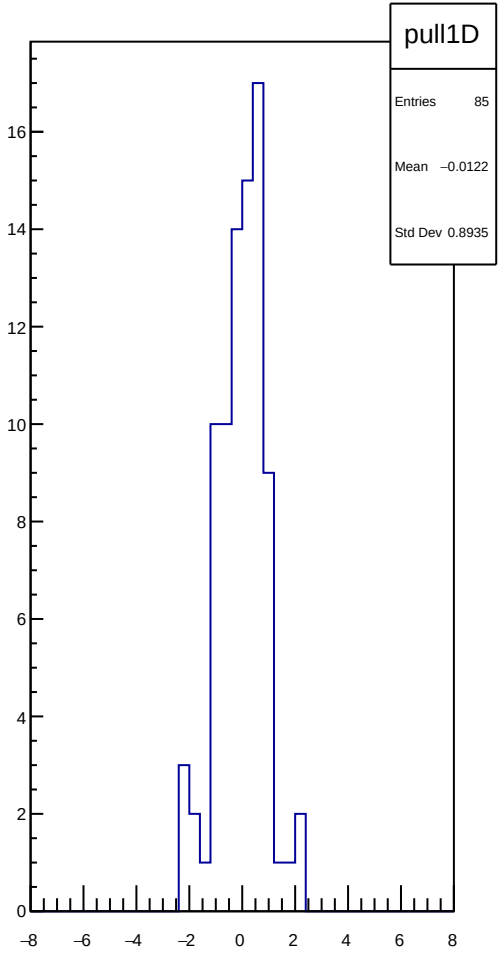

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 60.9 / 84
p0 25.87 ± 1.793
pull
Entries 85
Mean −507.5
Std Dev 550.1

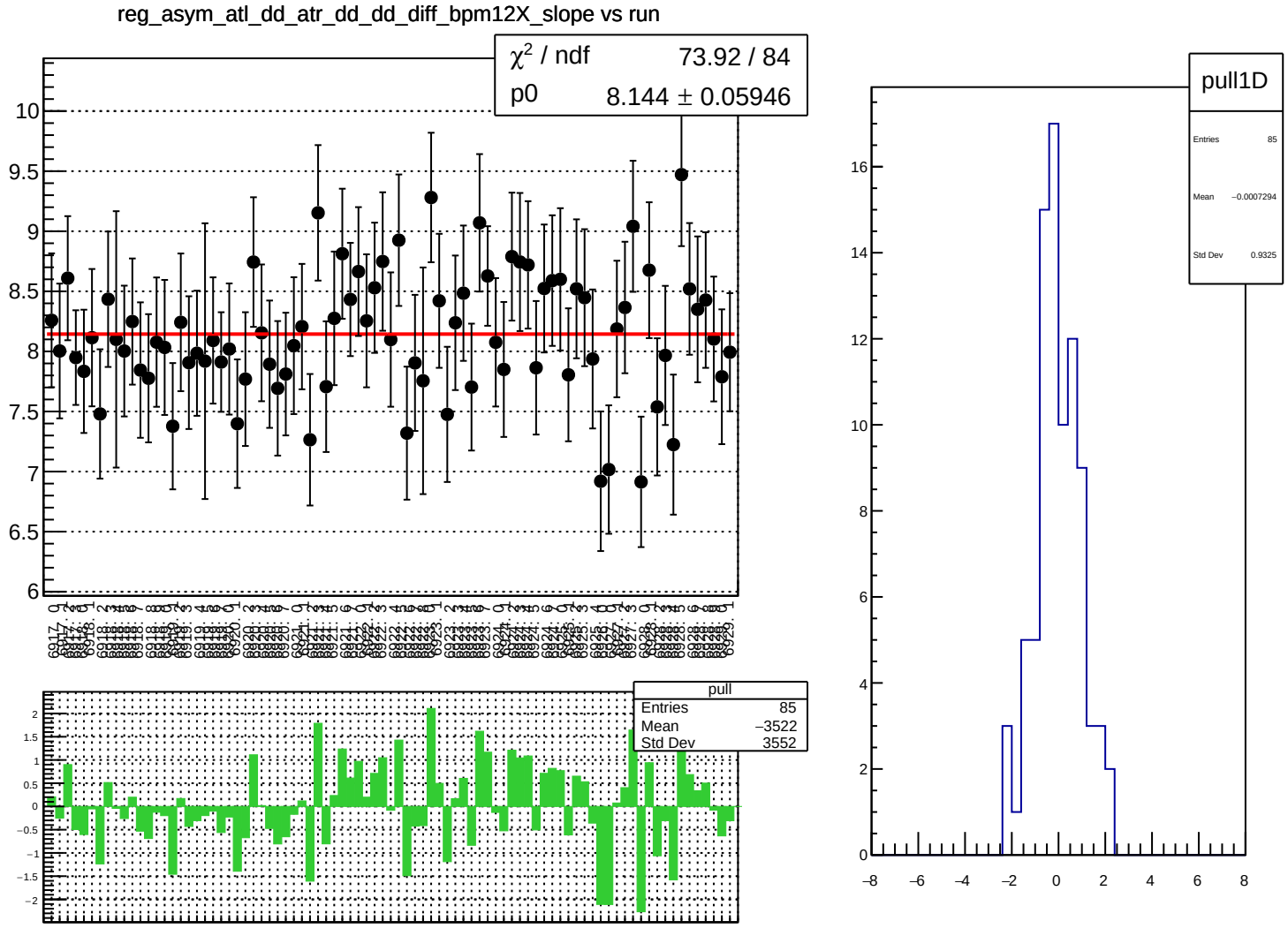

pull1D
Entries 85
Mean 0.007421
Std Dev 0.8464

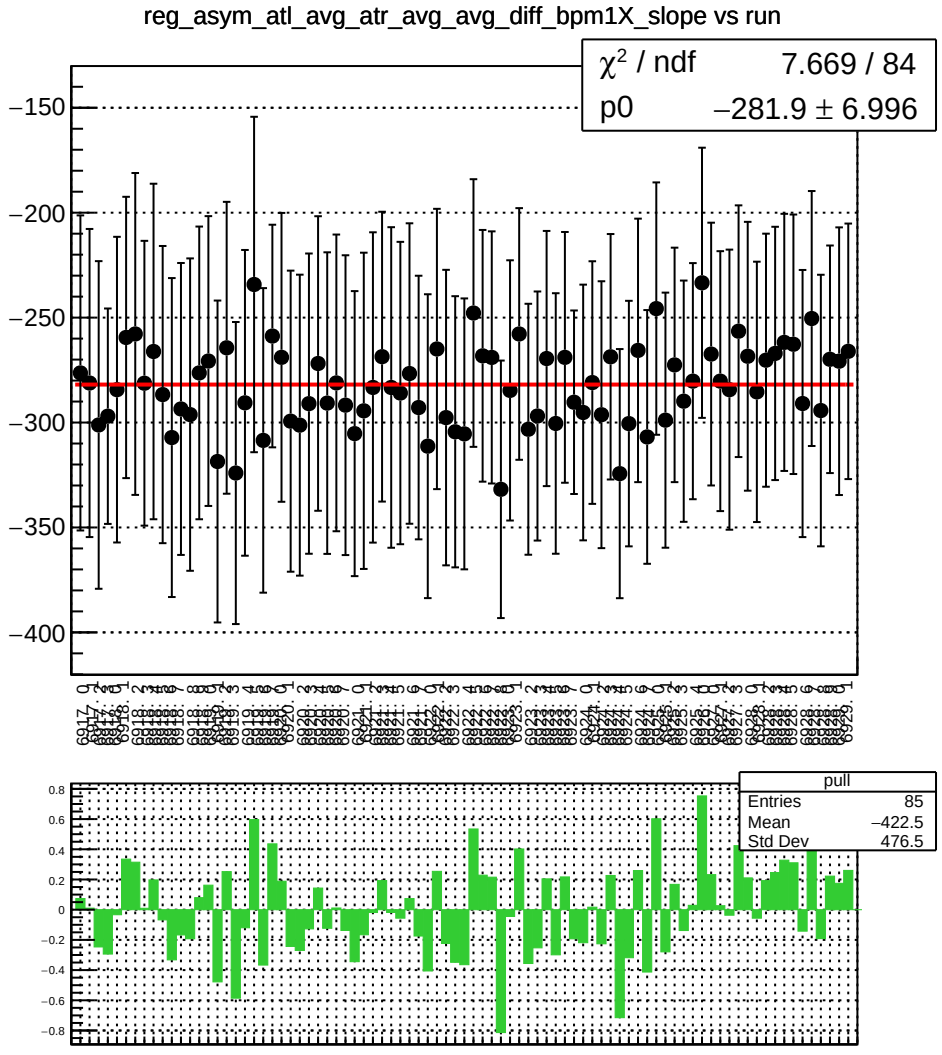

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.98 / 84
p0 −2.411± 1.237
pull
Entries 85
Mean 90.7
Std Dev 64.51
pull1D
Entries 85
Mean 0.009575
Std Dev 0.9202

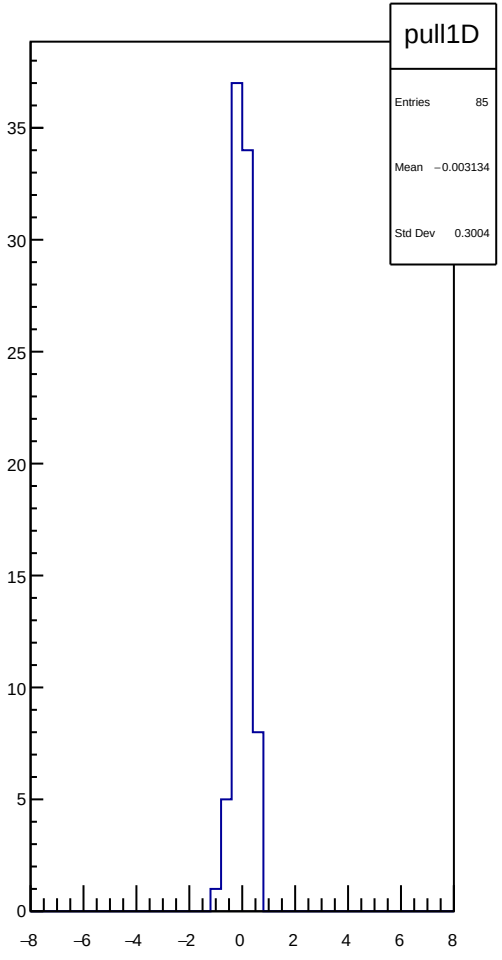

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.59 / 84
p0 42.37 ± 1.663
pull
Entries 85
Mean −575
Std Dev 616.4
pull1D
Entries 85
Mean −0.006642
Std Dev 0.8373

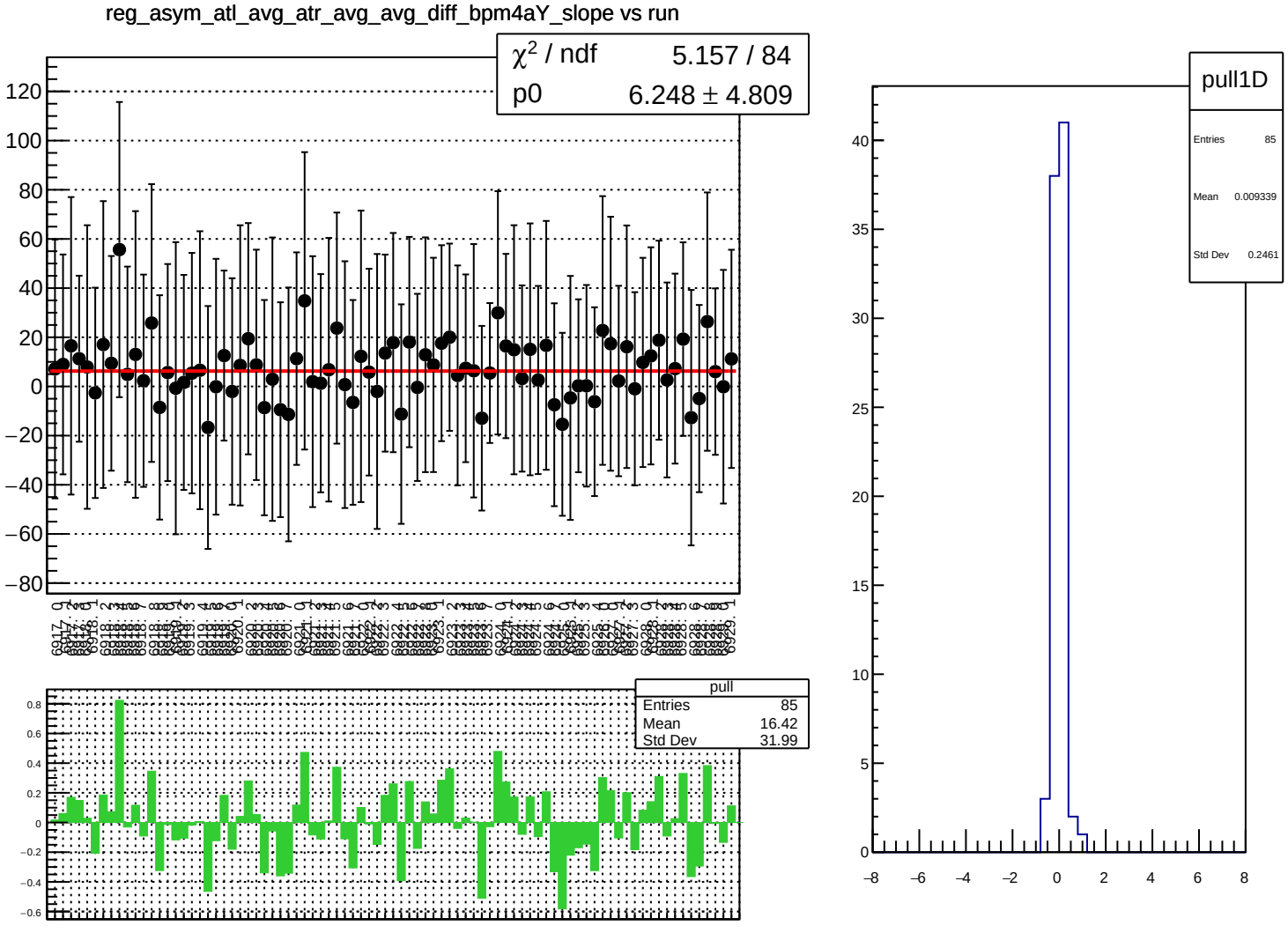

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.86 / 84
p0 −1.281 ± 1.402
pull
Entries 85
Mean 66.26
Std Dev 24.43

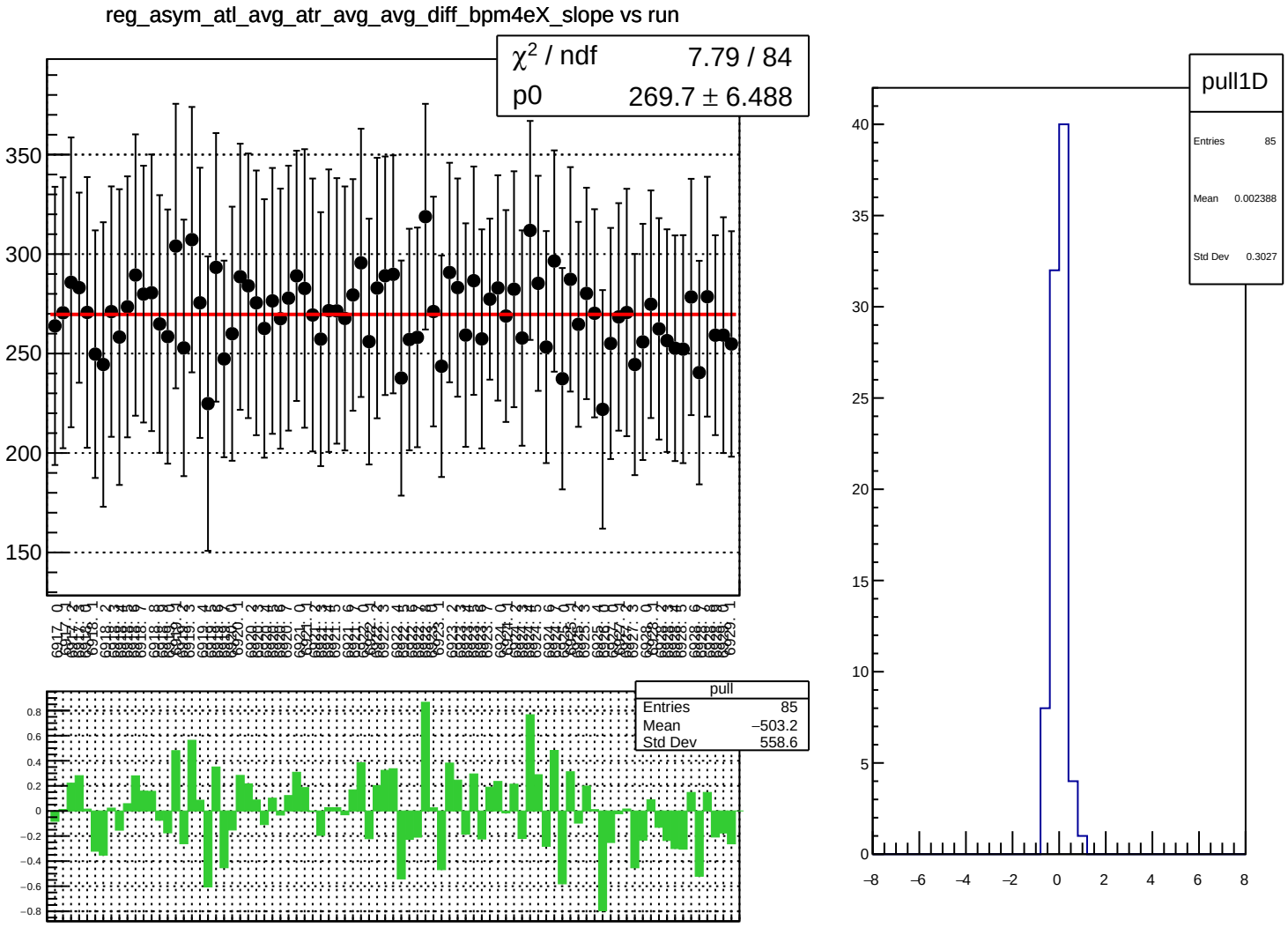

pull1D
Entries 85
Mean −0.0122
Std Dev 0.8935

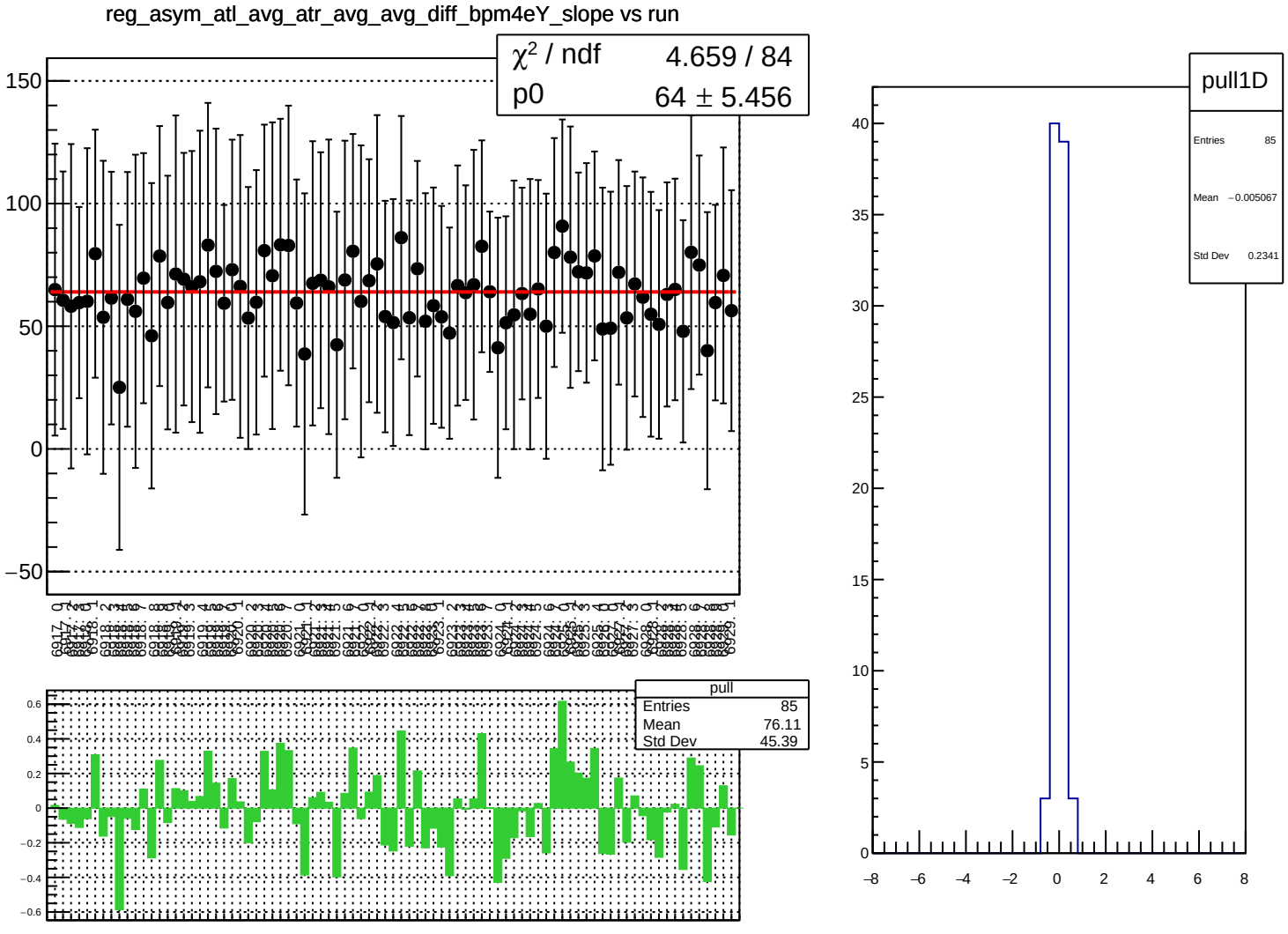

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 73.92 / 84
p0 8.144 ± 0.05946
pull
Entries 85
Mean −3522
Std Dev 3552
pull1D
Entries 85
Mean −0.0007294
Std Dev 0.9325

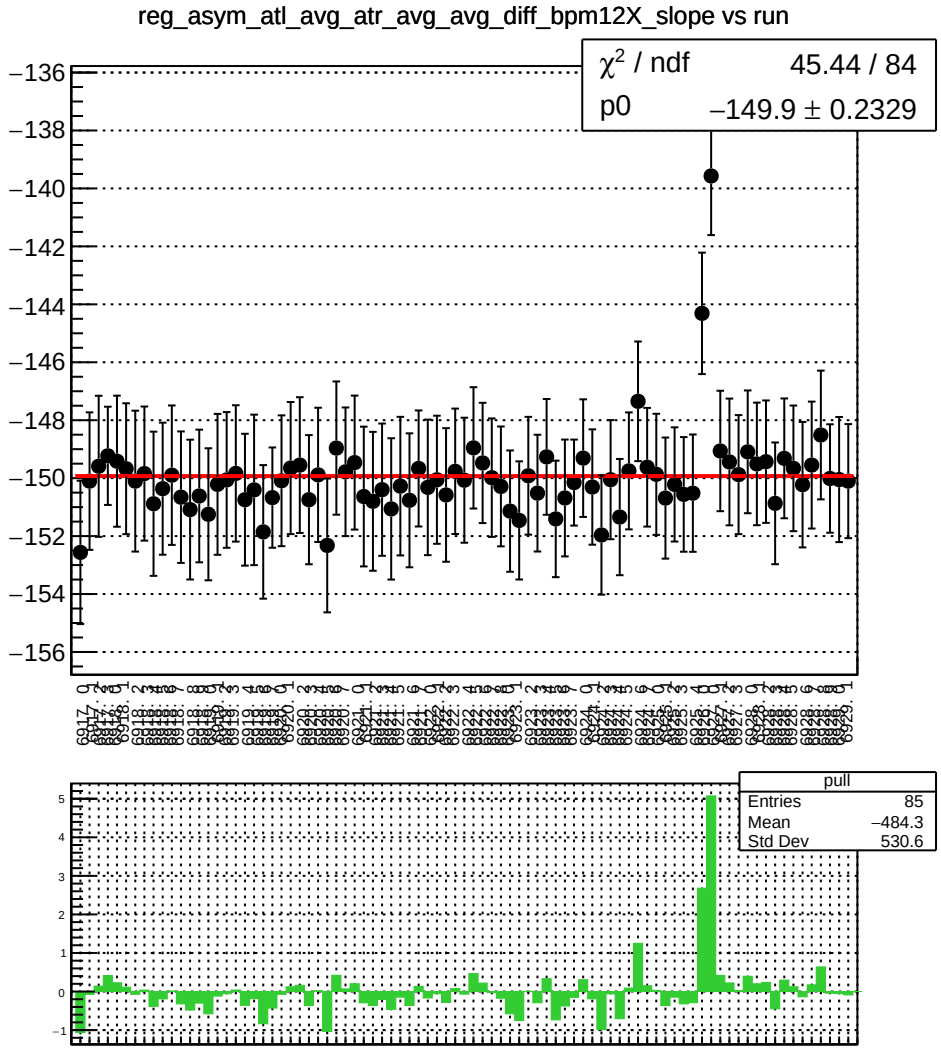

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.669 / 84
p0 −281.9 ± 6.996
pull
Entries 85
Mean −422.5
Std Dev 476.5

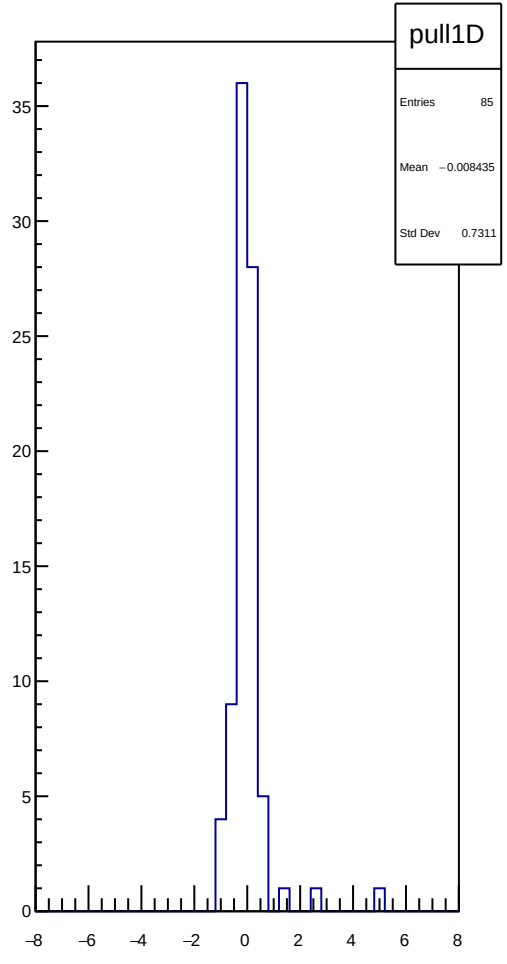

pull1D
Entries 85
Mean −0.003134
Std Dev 0.3004

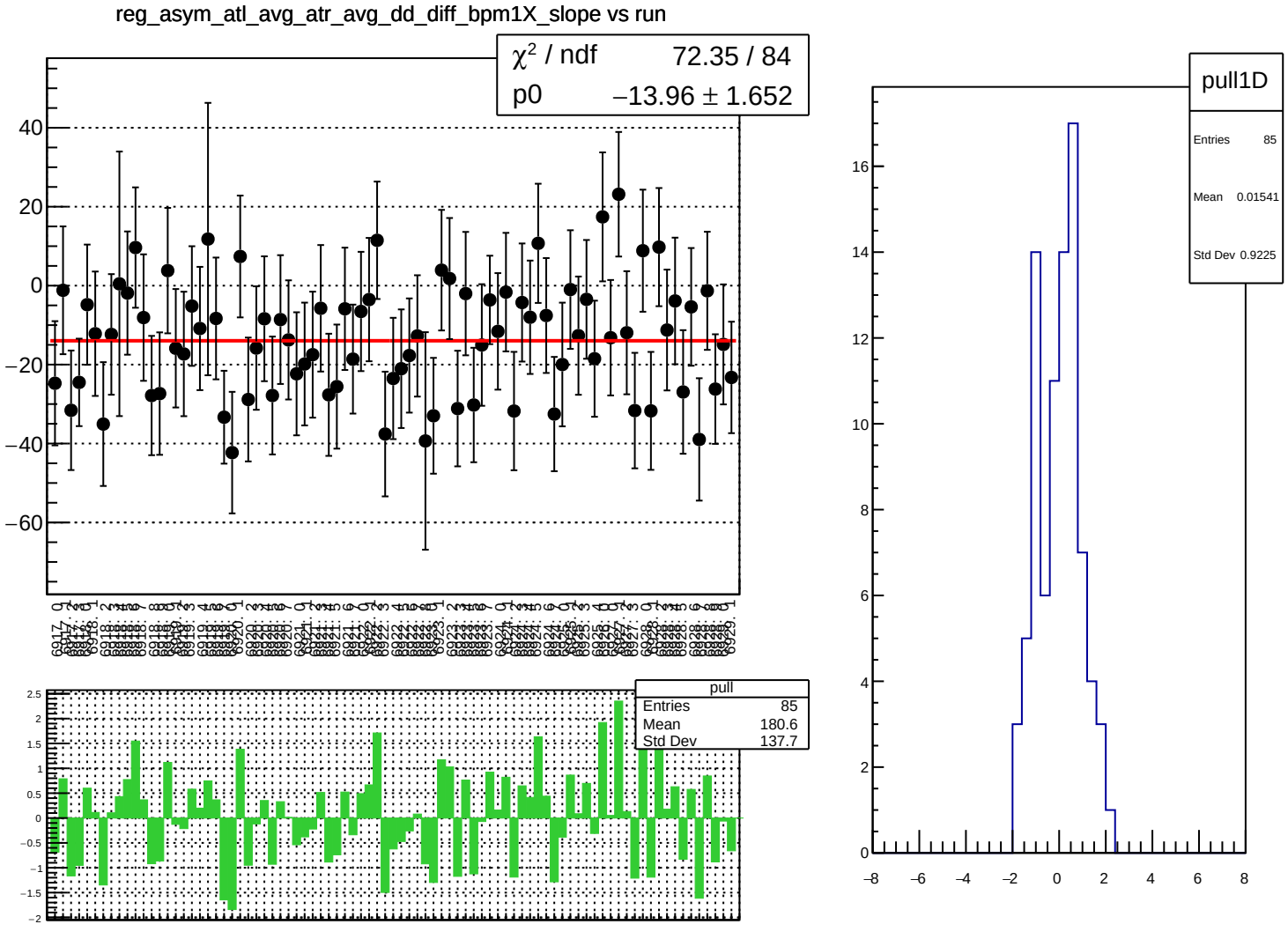

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.157 / 84
p0 6.248 ± 4.809
pull
Entries 85
Mean 16.42
Std Dev 31.99
pull1D
Entries 85
Mean 0.009339
Std Dev 0.2461

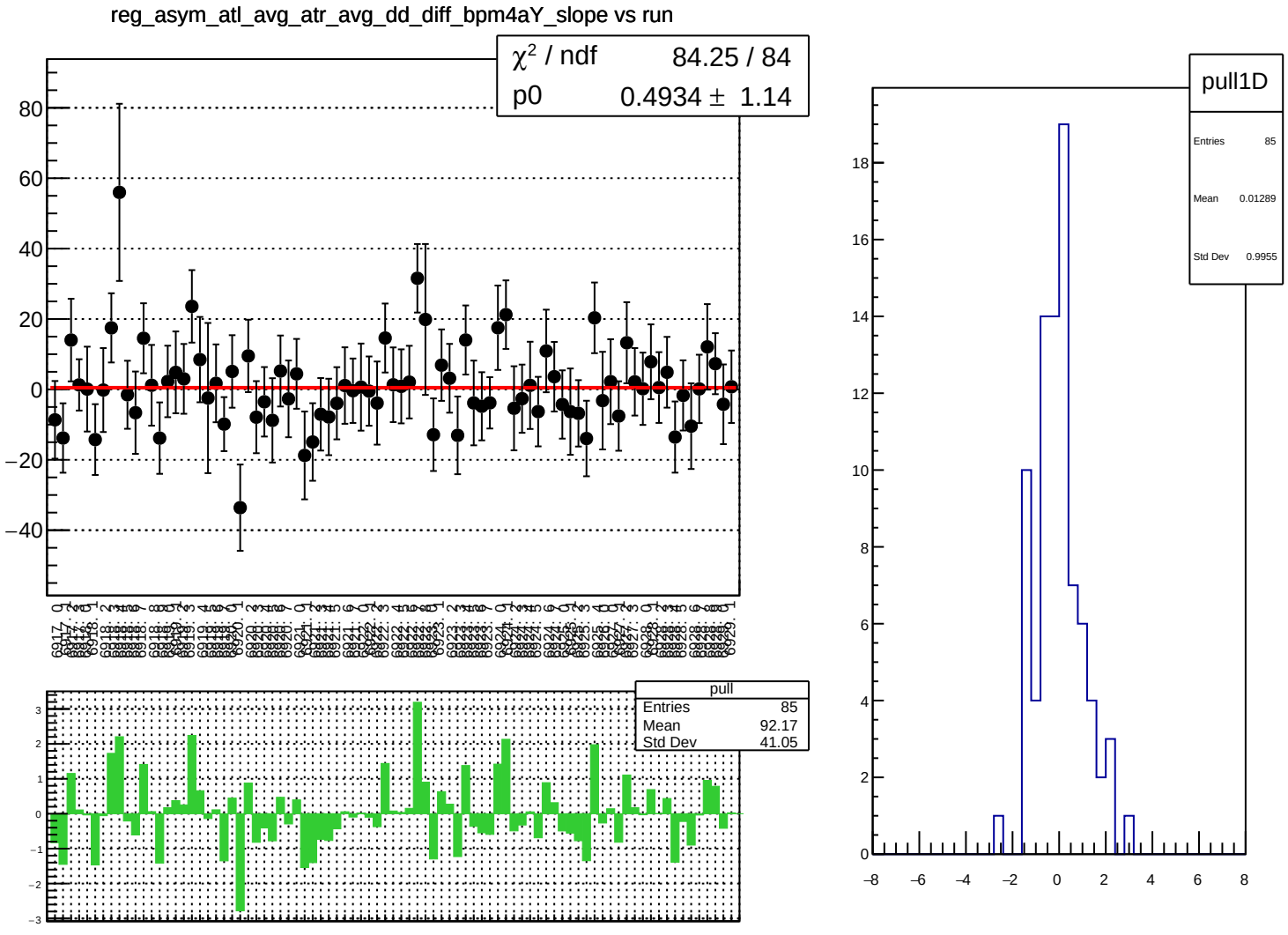

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.79 / 84
p0 269.7 ± 6.488
350
300
250
200
150
pull
Entries 85
Mean −503.2
Std Dev 558.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean 0.002388
Std Dev 0.3027
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

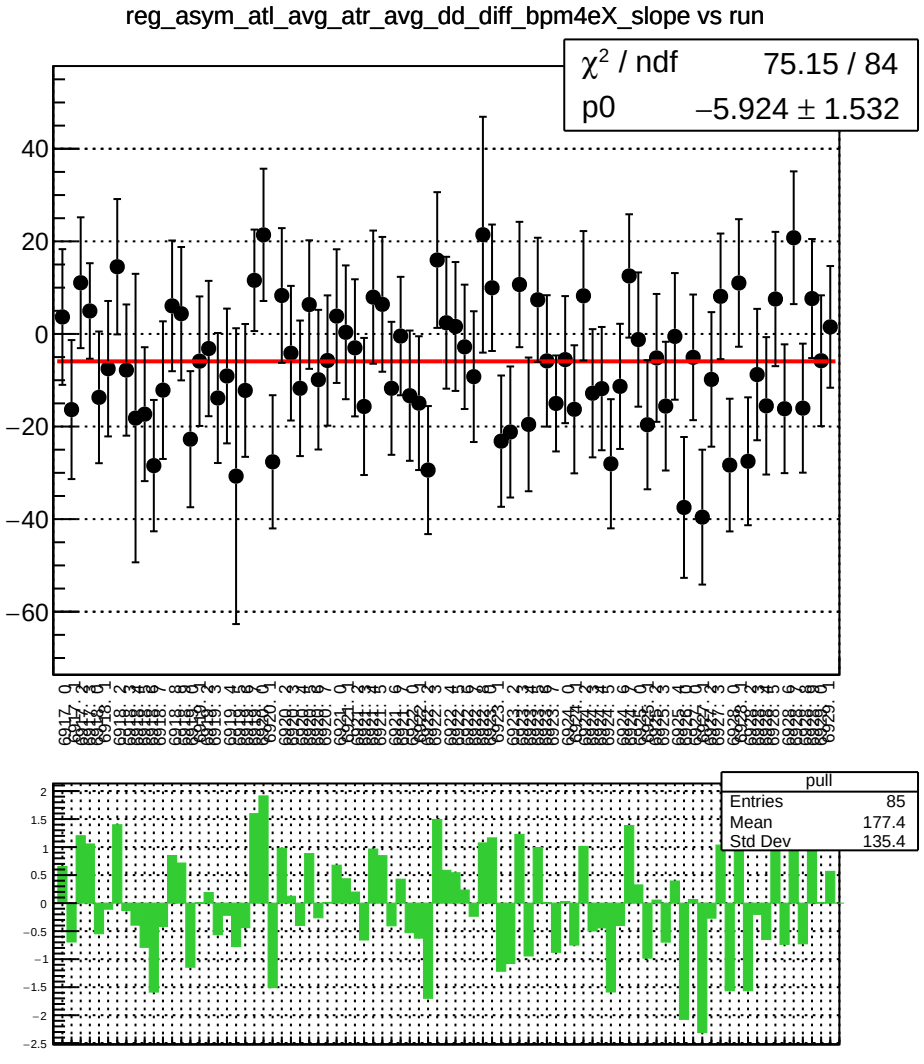

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.659 / 84
p0 64 ± 5.456
150
100
50
0
−50
pull
Entries 85
Mean 76.11
Std Dev 45.39
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.005067
Std Dev 0.2341
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

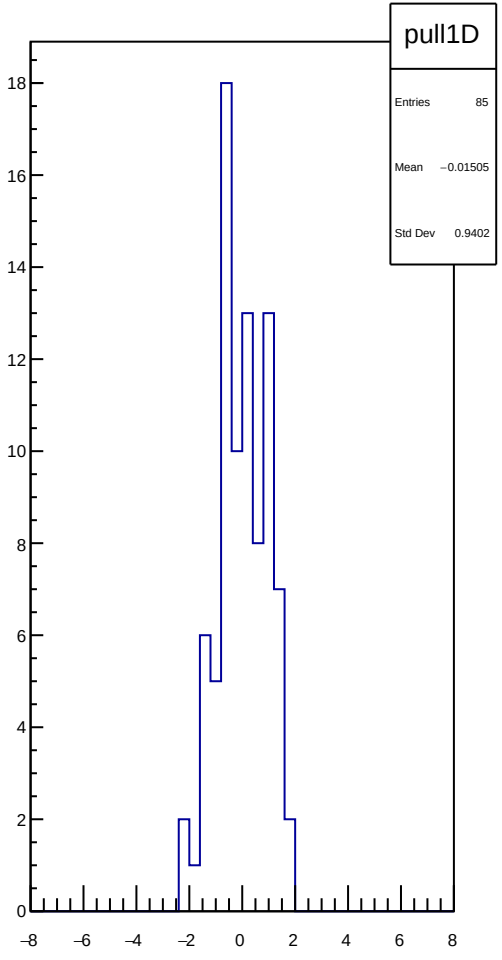

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 45.44 / 84
p0 −149.9 ± 0.2329
pull
Entries 85
Mean −484.3
Std Dev 530.6

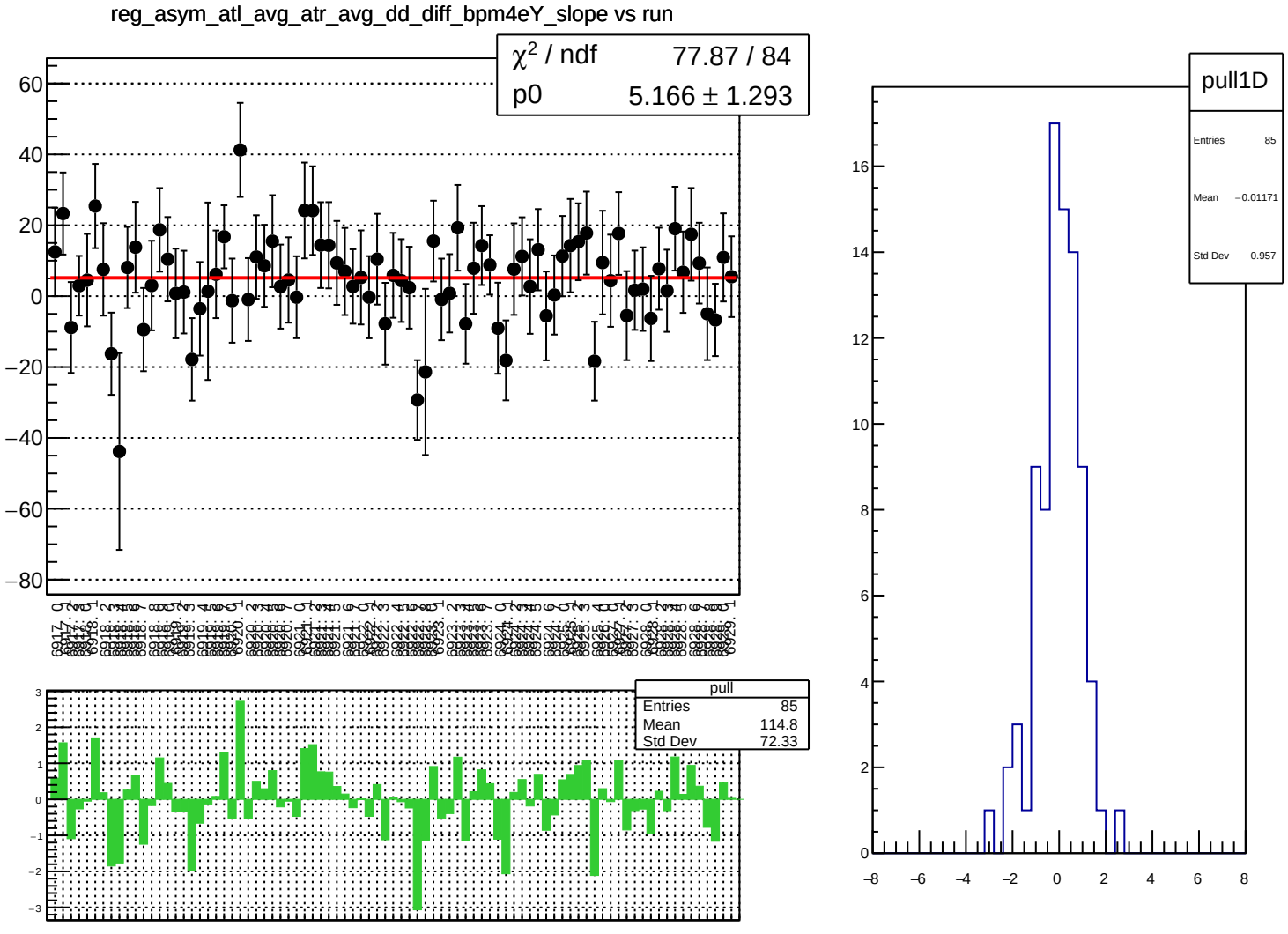

pull1D
Entries 85
Mean −0.008435
Std Dev 0.7311

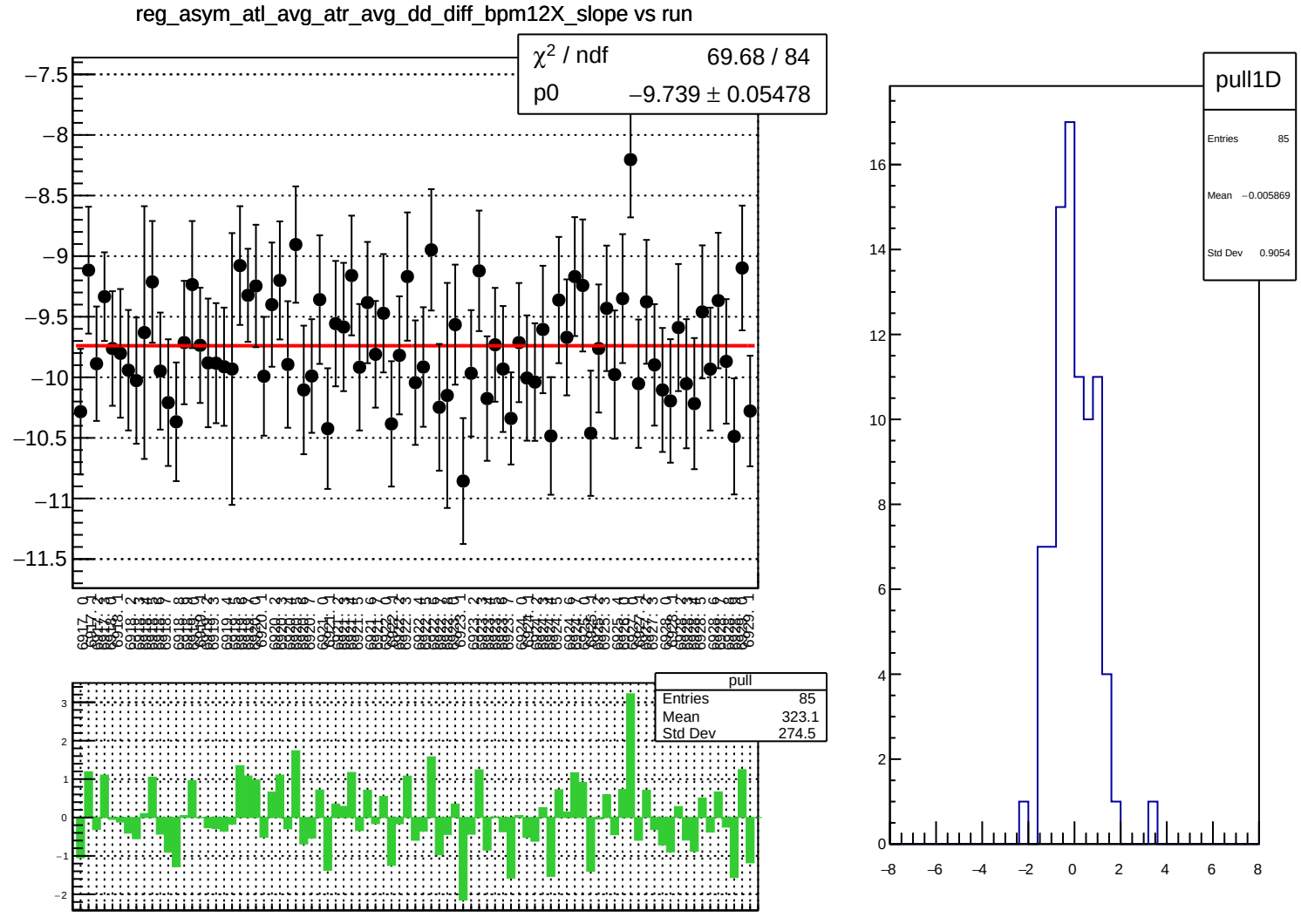

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 72.35 / 84
p0 −13.96 ± 1.652
pull
Entries 85
Mean 180.6
Std Dev 137.7
pull1D
Entries 85
Mean 0.01541
Std Dev 0.9225

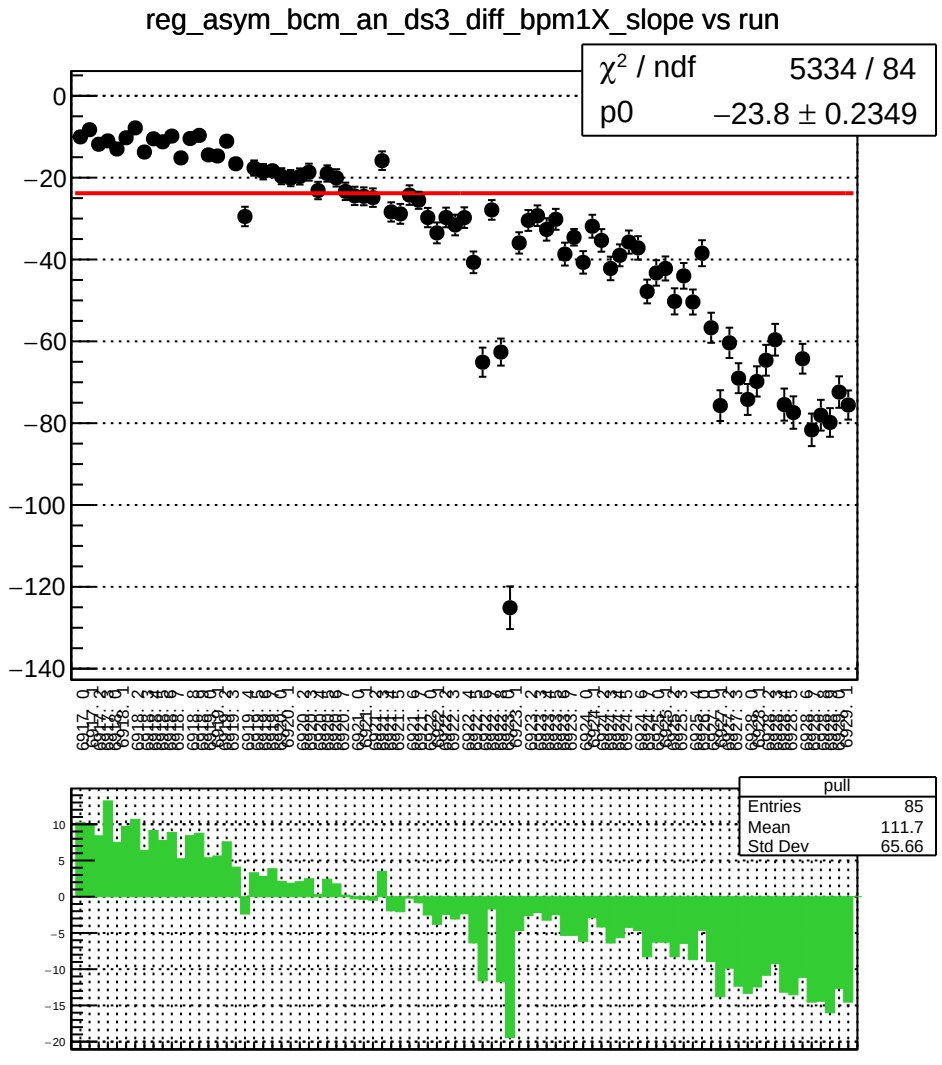

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.25 / 84
p0 0.4934 ± 1.14
pull
Entries 85
Mean 92.17
Std Dev 41.05
pull1D
Entries 85
Mean 0.01289
Std Dev 0.9955

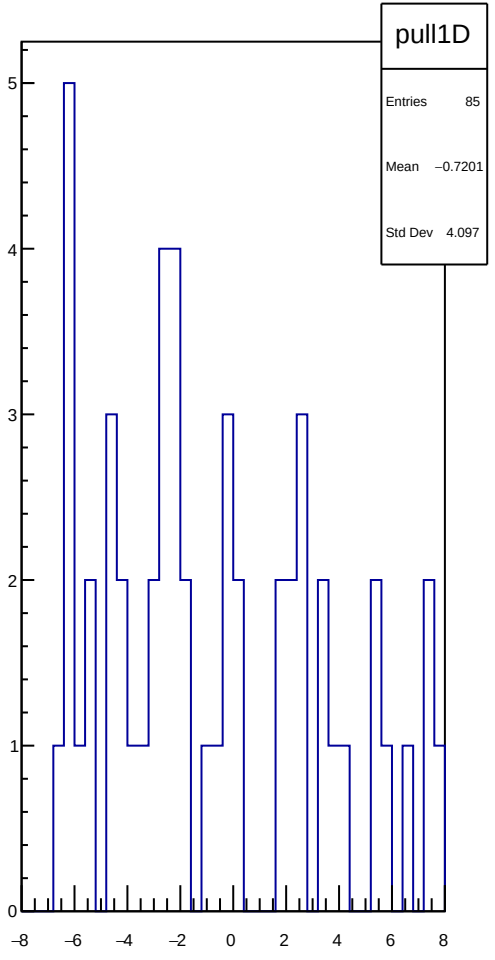

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.15 / 84
p0 −5.924 ± 1.532
pull
Entries 85
Mean 177.4
Std Dev 135.4

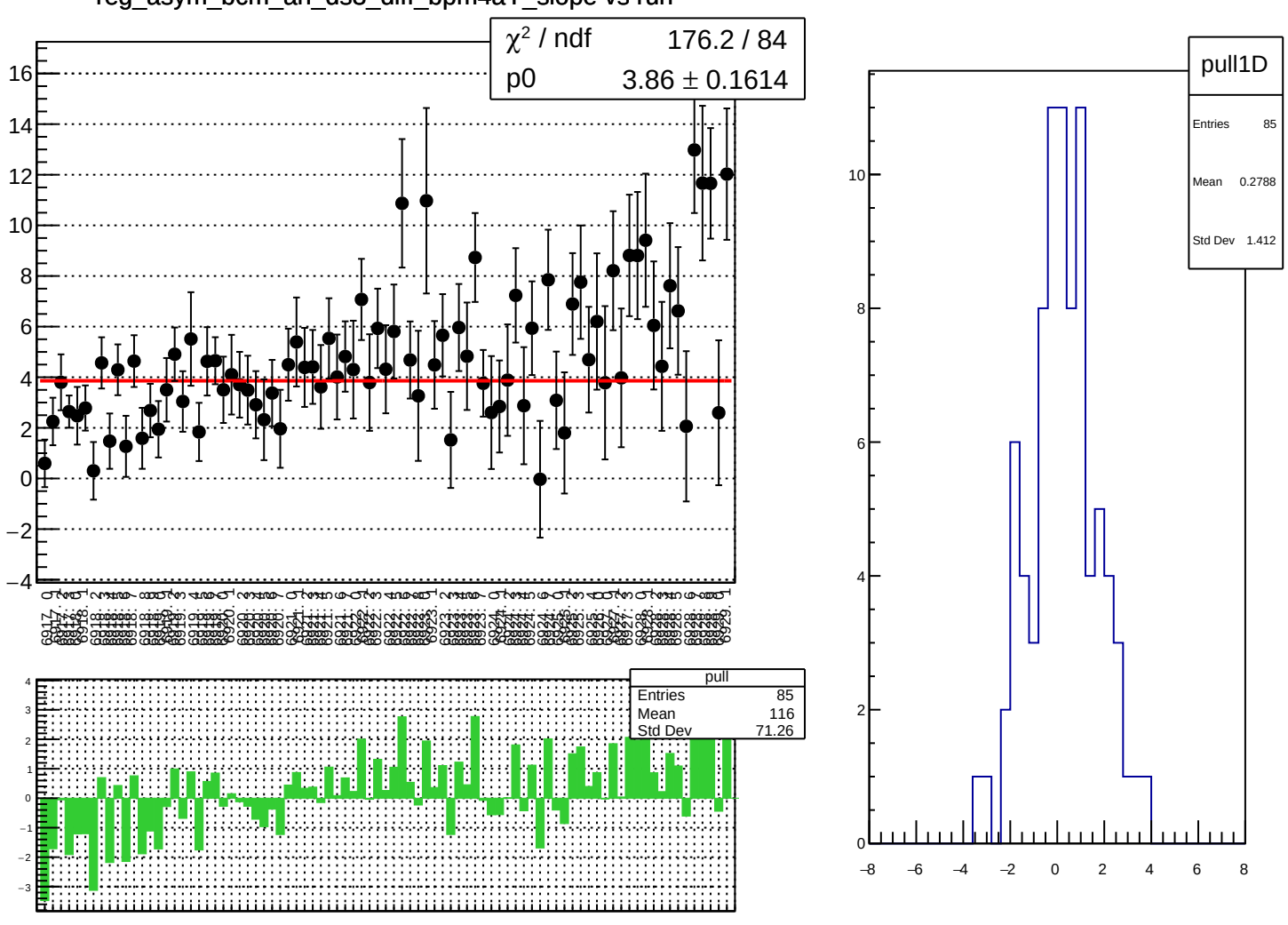

pull1D
Entries 85
Mean −0.01505
Std Dev 0.9402

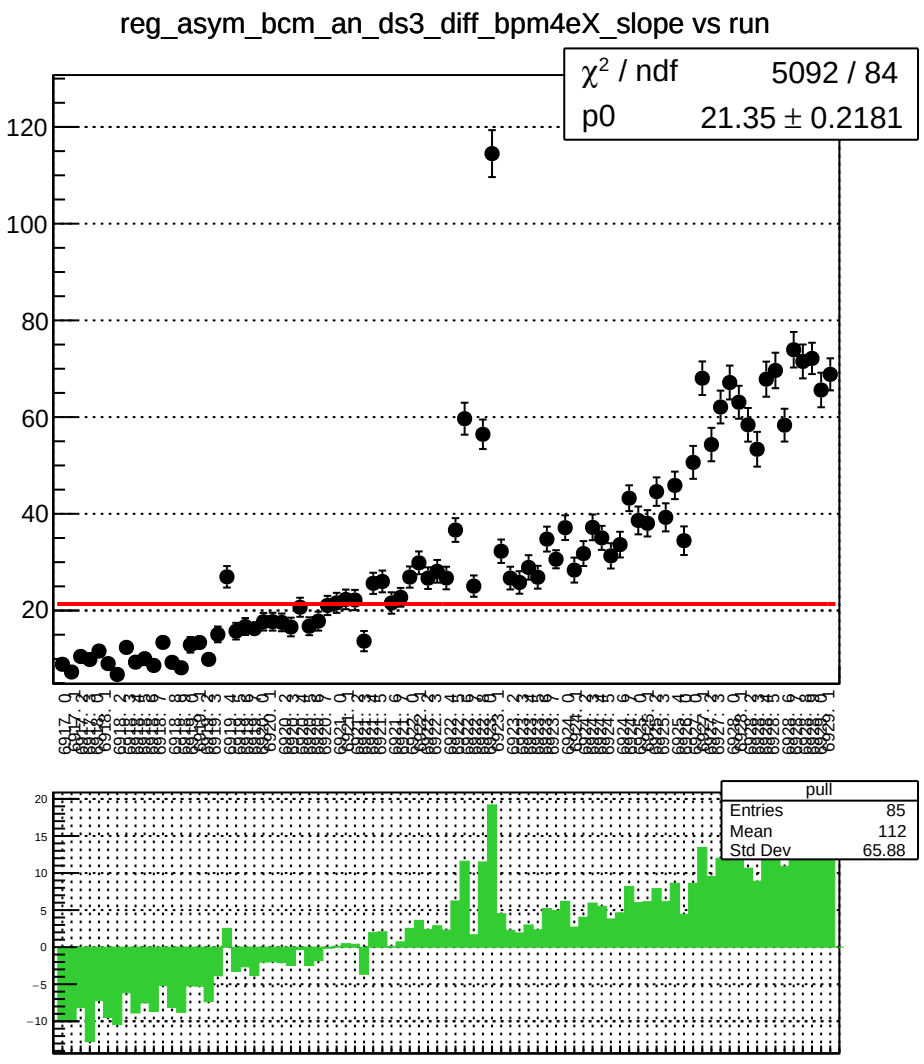

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.87 / 84
p0 5.166 ± 1.293
pull
Entries 85
Mean 114.8
Std Dev 72.33
pull1D
Entries 85
Mean −0.01171
Std Dev 0.957

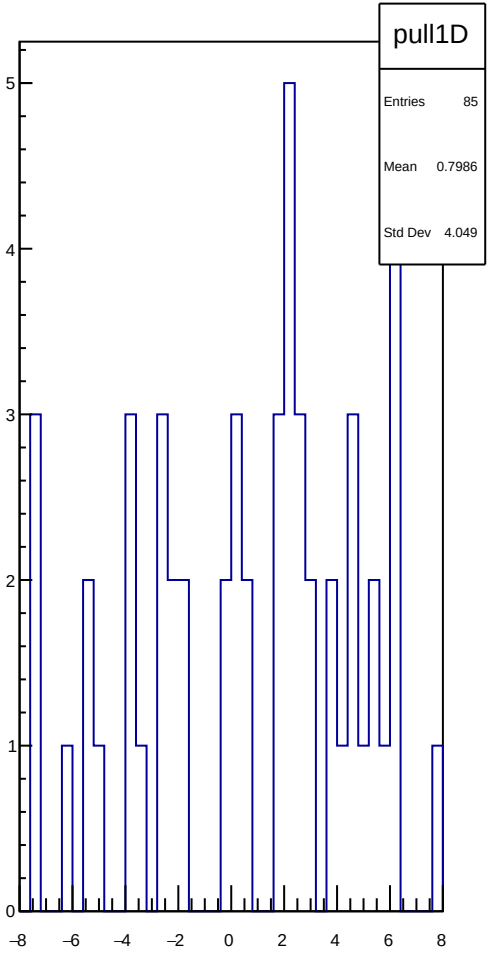

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 69.68 / 84
p0 −9.739 ± 0.05478
pull
Entries 85
Mean 323.1
Std Dev 274.5
pull1D
Entries 85
Mean −0.005869
Std Dev 0.9054

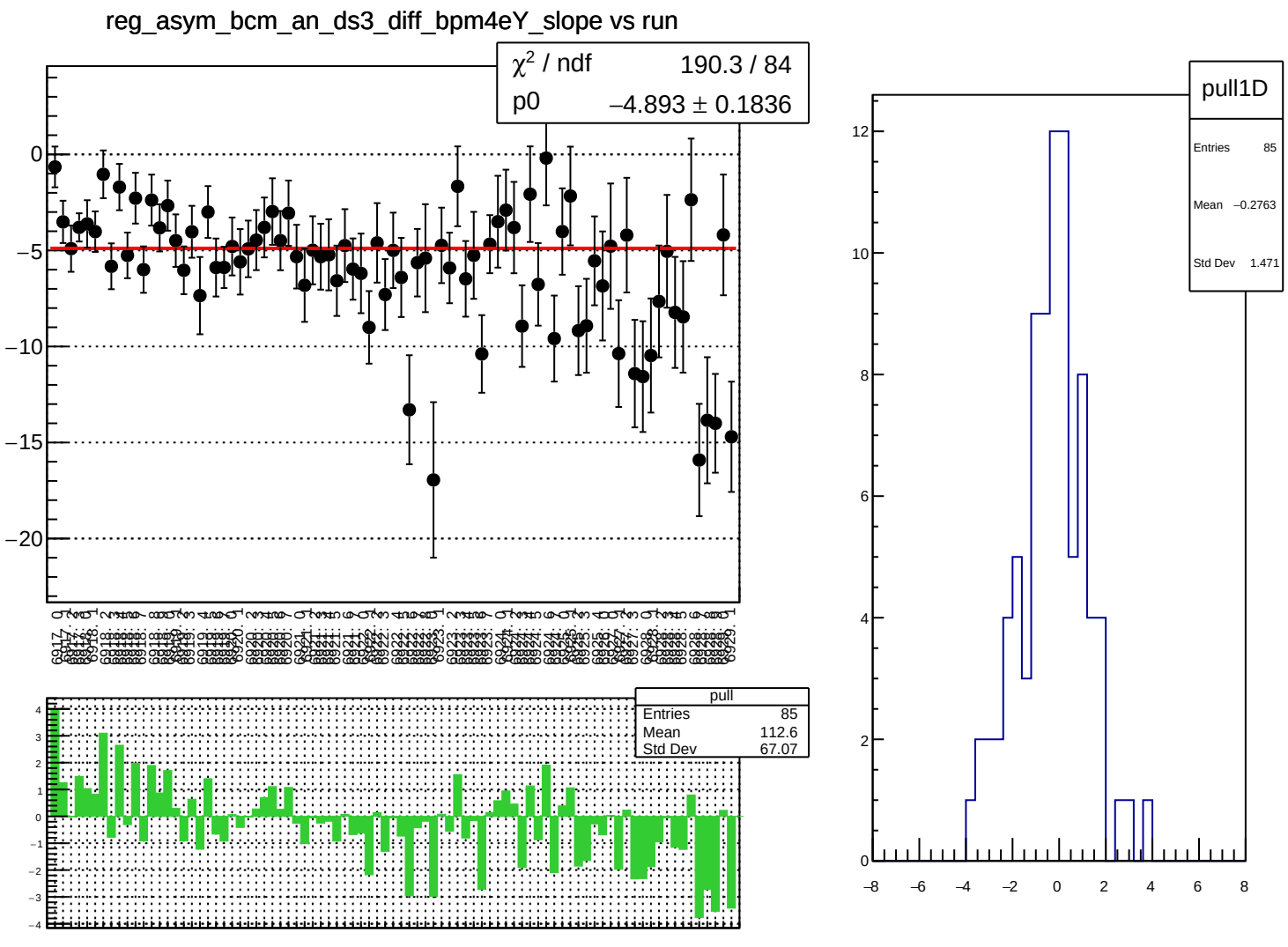

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 5334 / 84
p0 −23.8 ± 0.2349
pull
Entries 85
Mean 111.7
Std Dev 65.66

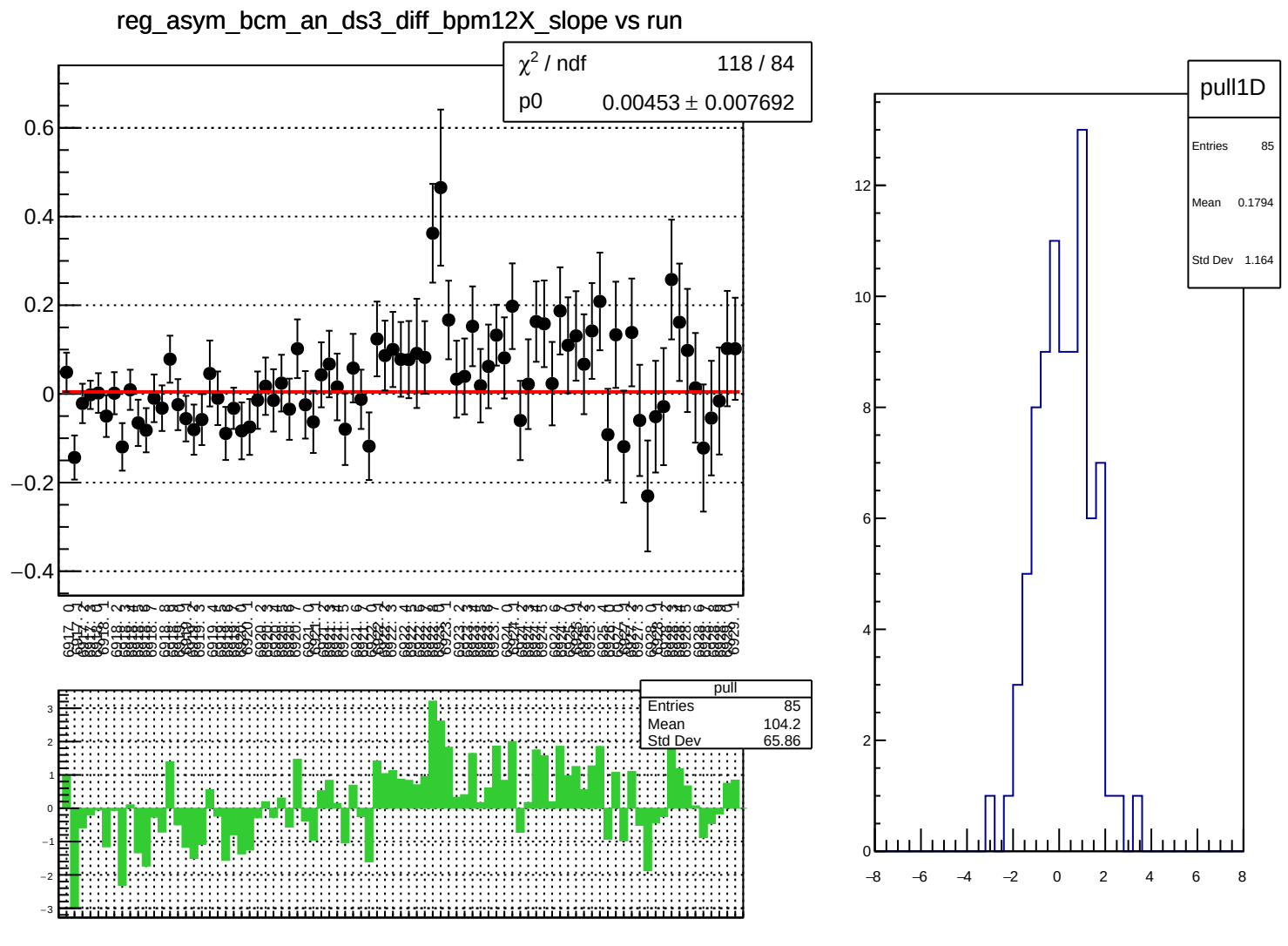

pull1D
Entries 85
Mean −0.7201
Std Dev 4.097

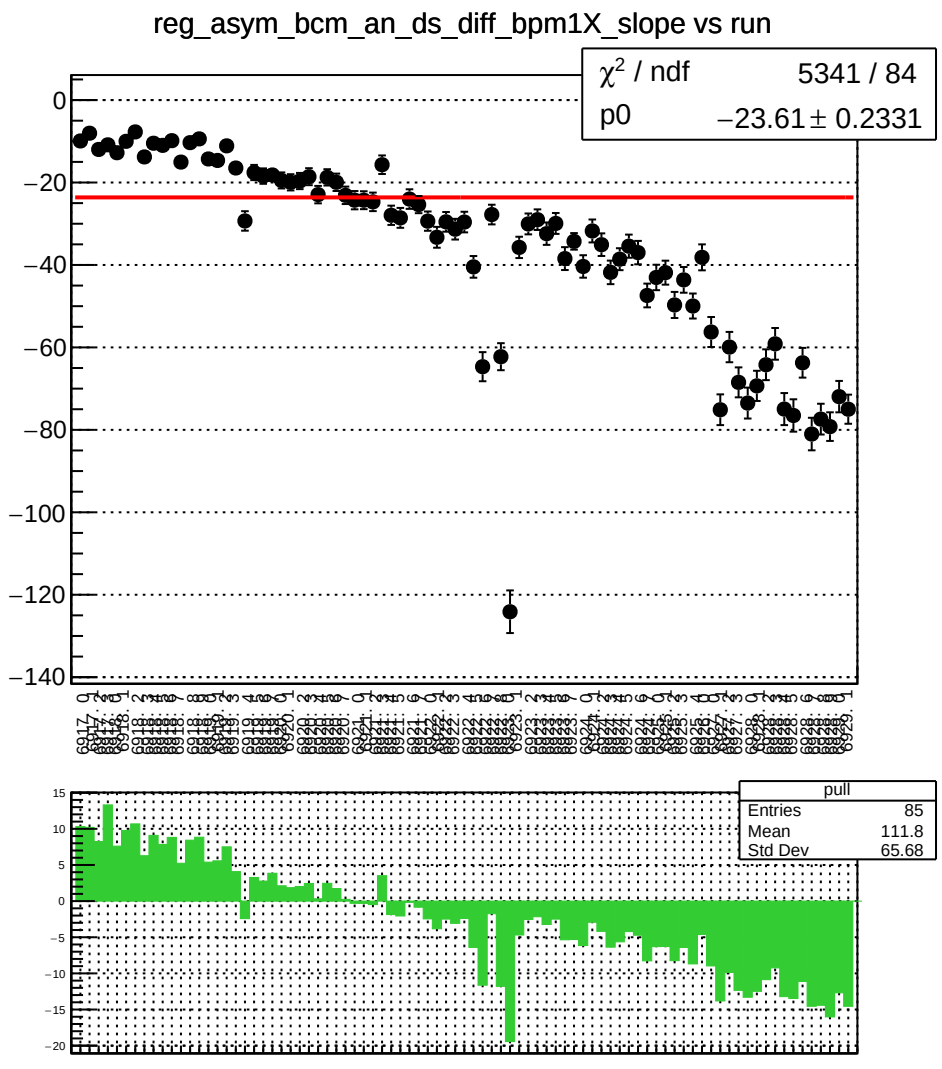

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 176.2 / 84
p0 3.86 ± 0.1614
pull
Entries 85
Mean 116
Std Dev 71.26
pull1D
Entries 85
Mean 0.2788
Std Dev 1.412

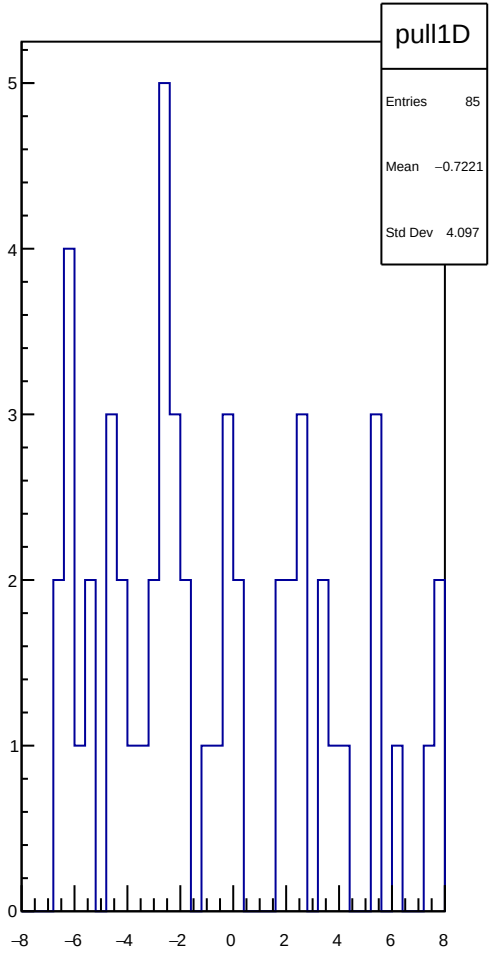

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 5092 / 84
p0 21.35 ± 0.2181
pull
Entries 85
Mean 112
Std Dev 65.88

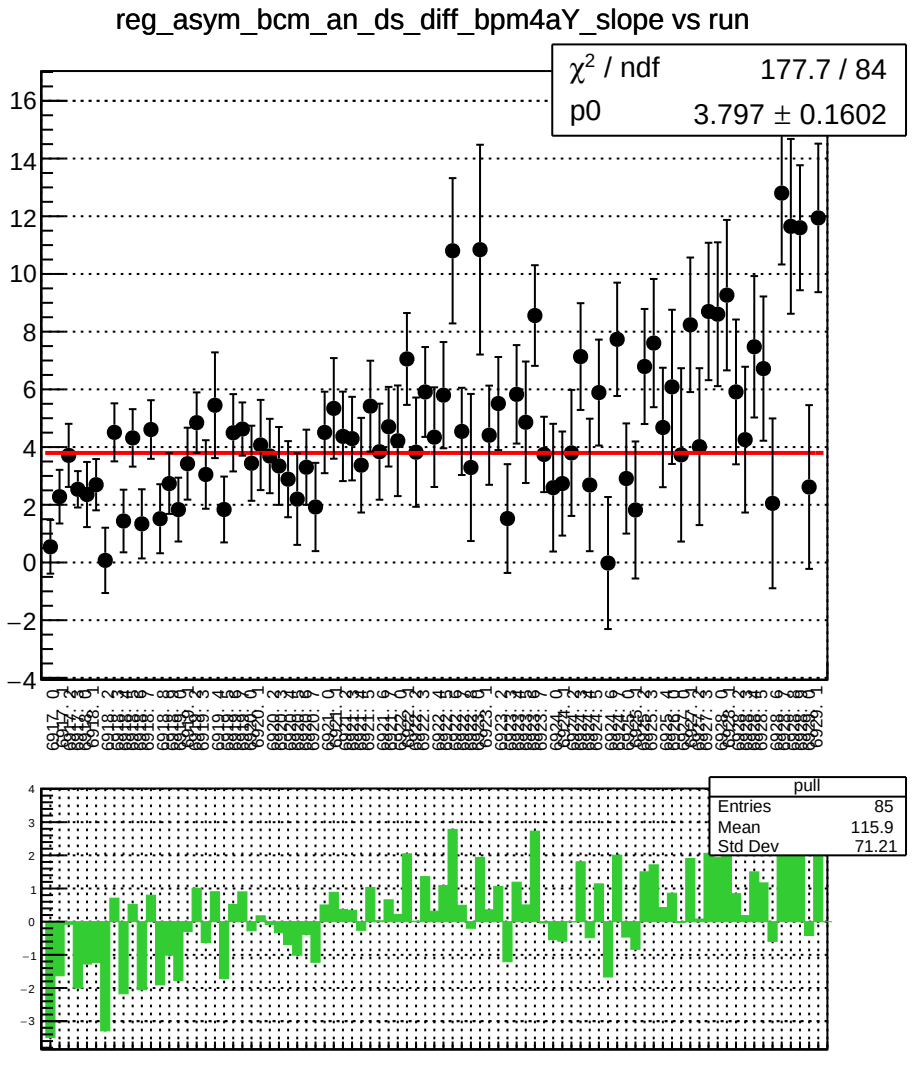

pull1D
Entries 85
Mean 0.7986
Std Dev 4.049

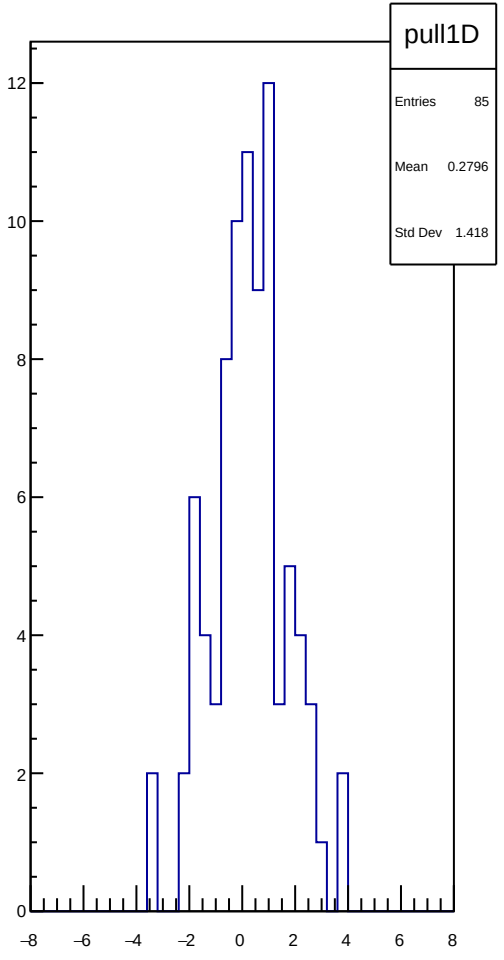

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 190.3 / 84
p0 −4.893 ± 0.1836
pull
Entries 85
Mean 112.6
Std Dev 67.07
pull1D
Entries 85
Mean −0.2763
Std Dev 1.471

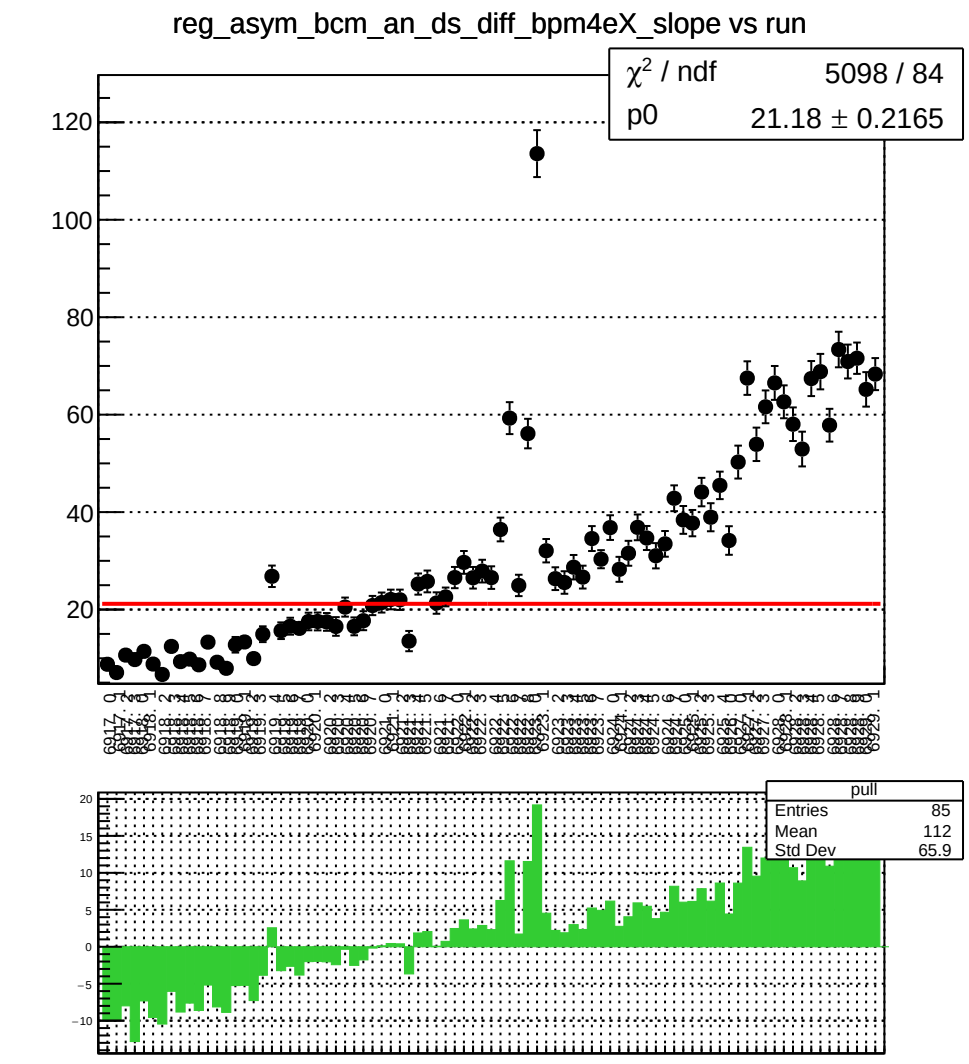

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 118 / 84
p0 0.00453 ± 0.007692
pull
Entries 85
Mean 104.2
Std Dev 65.86
pull1D
Entries 85
Mean 0.1794
Std Dev 1.164

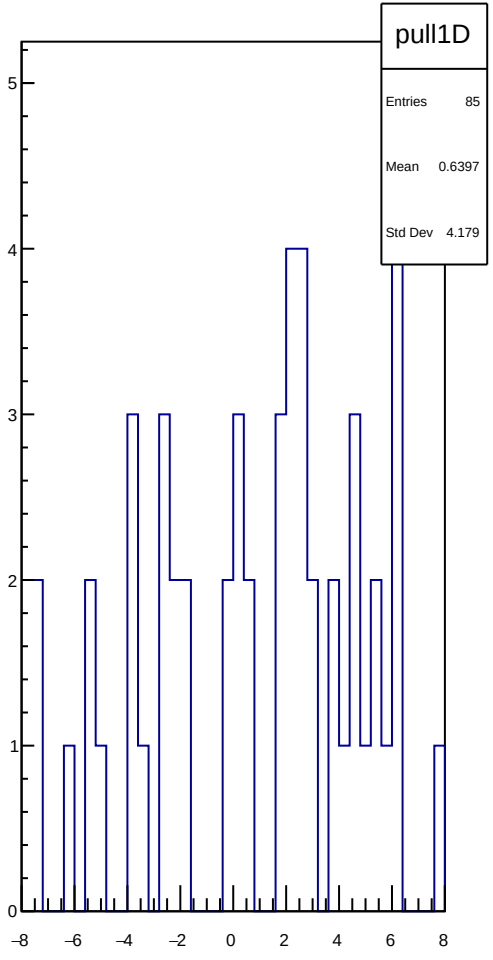

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 5341 / 84
p0 −23.61 ± 0.2331
pull
Entries 85
Mean 111.8
Std Dev 65.68

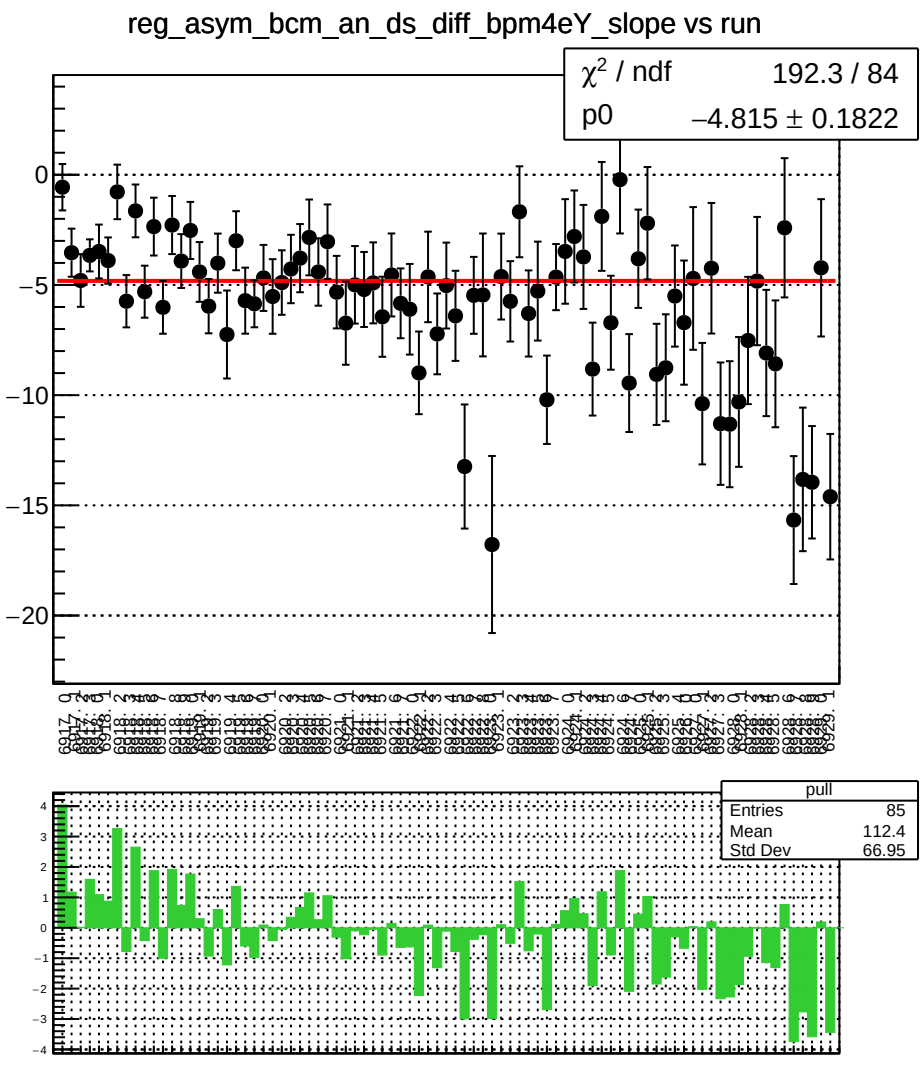

pull1D
Entries 85
Mean −0.7221
Std Dev 4.097

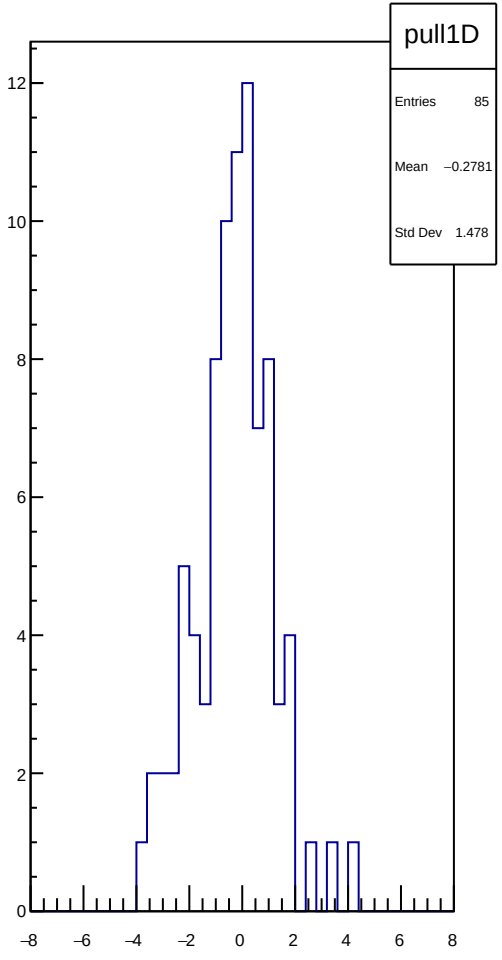

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 177.7 / 84
p0 3.797 ± 0.1602
pull
Entries 85
Mean 115.9
Std Dev 71.21

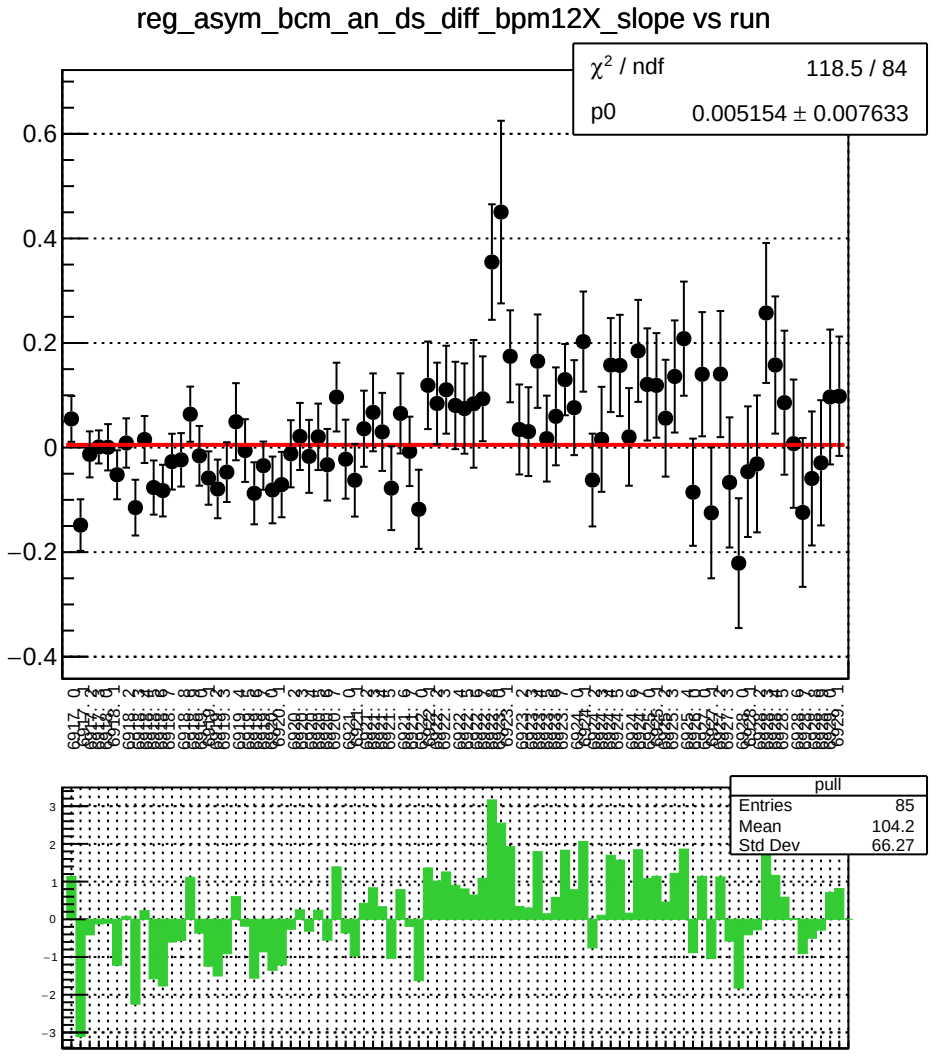

pull1D
Entries 85
Mean 0.2796
Std Dev 1.418

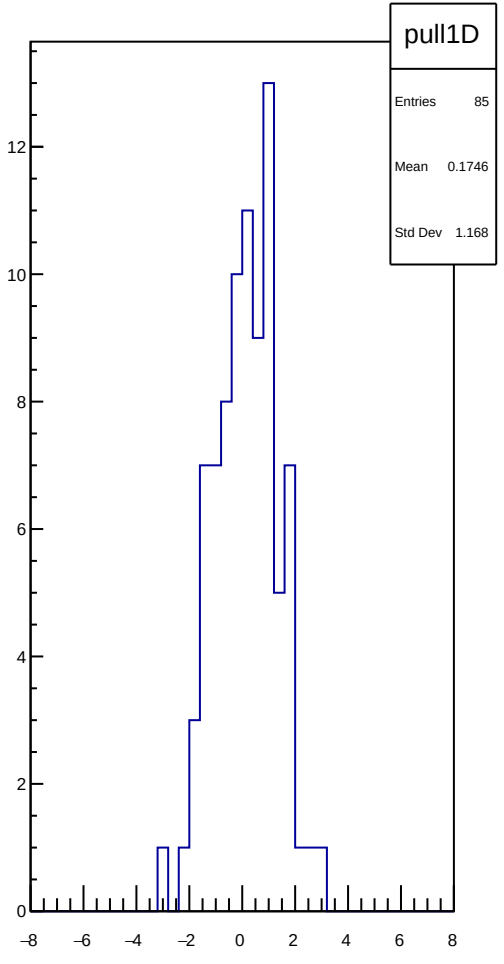

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 5098 / 84
p0 21.18 ± 0.2165
pull
Entries 85
Mean 112
Std Dev 65.9

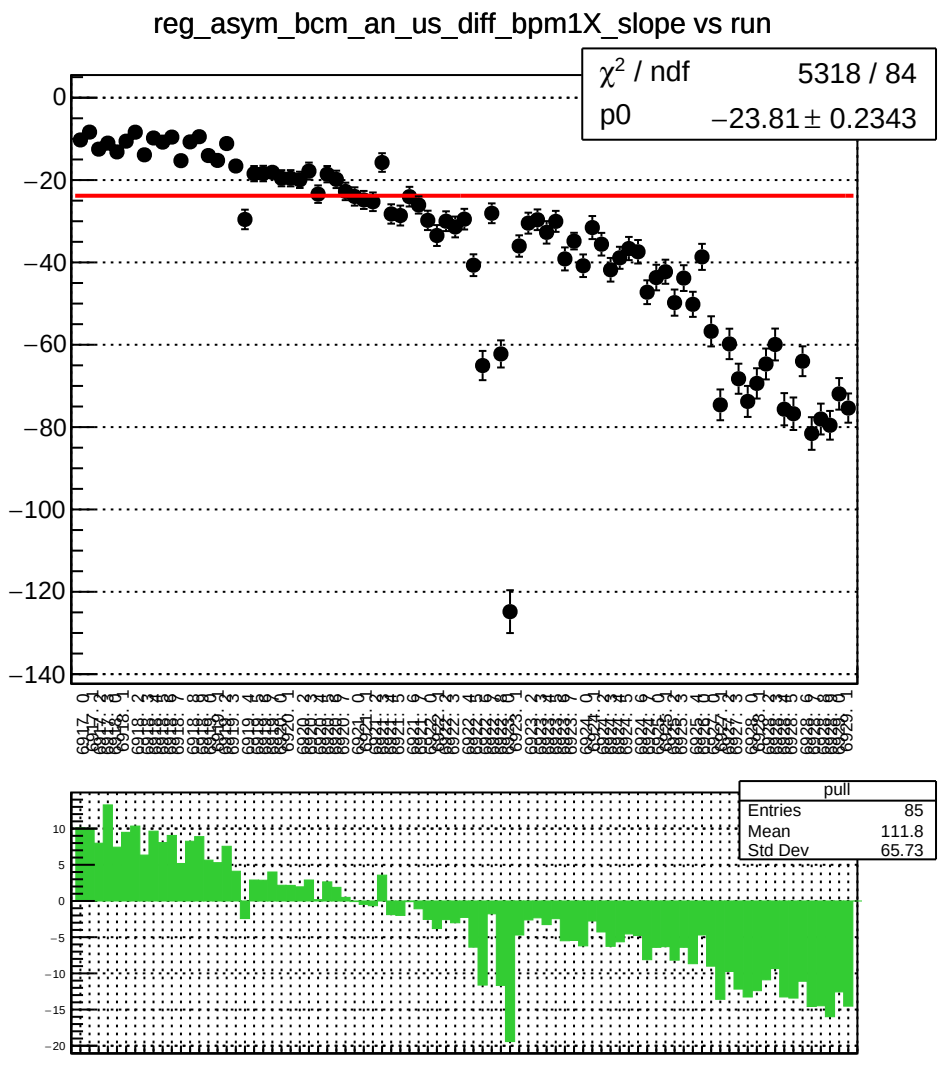

pull1D
Entries 85
Mean 0.6397
Std Dev 4.179

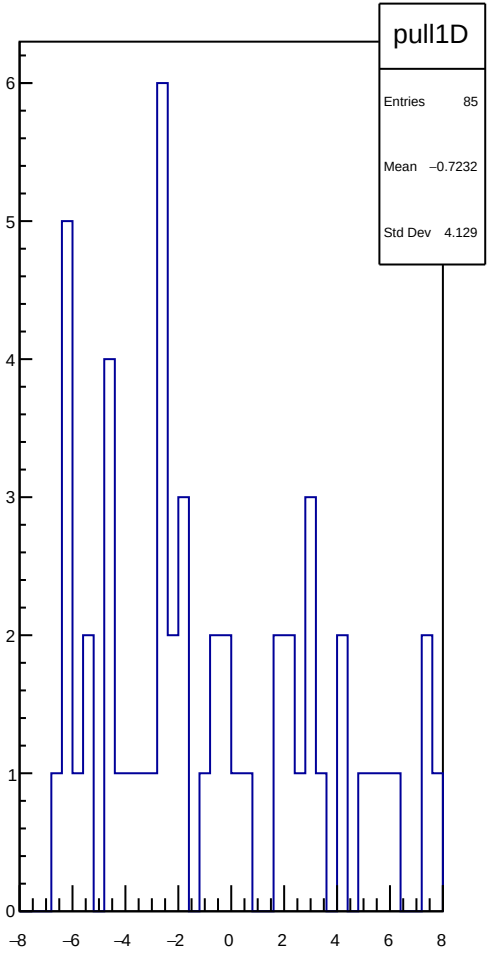

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 192.3 / 84
p0 −4.815 ± 0.1822
pull
Entries 85
Mean 112.4
Std Dev 66.95

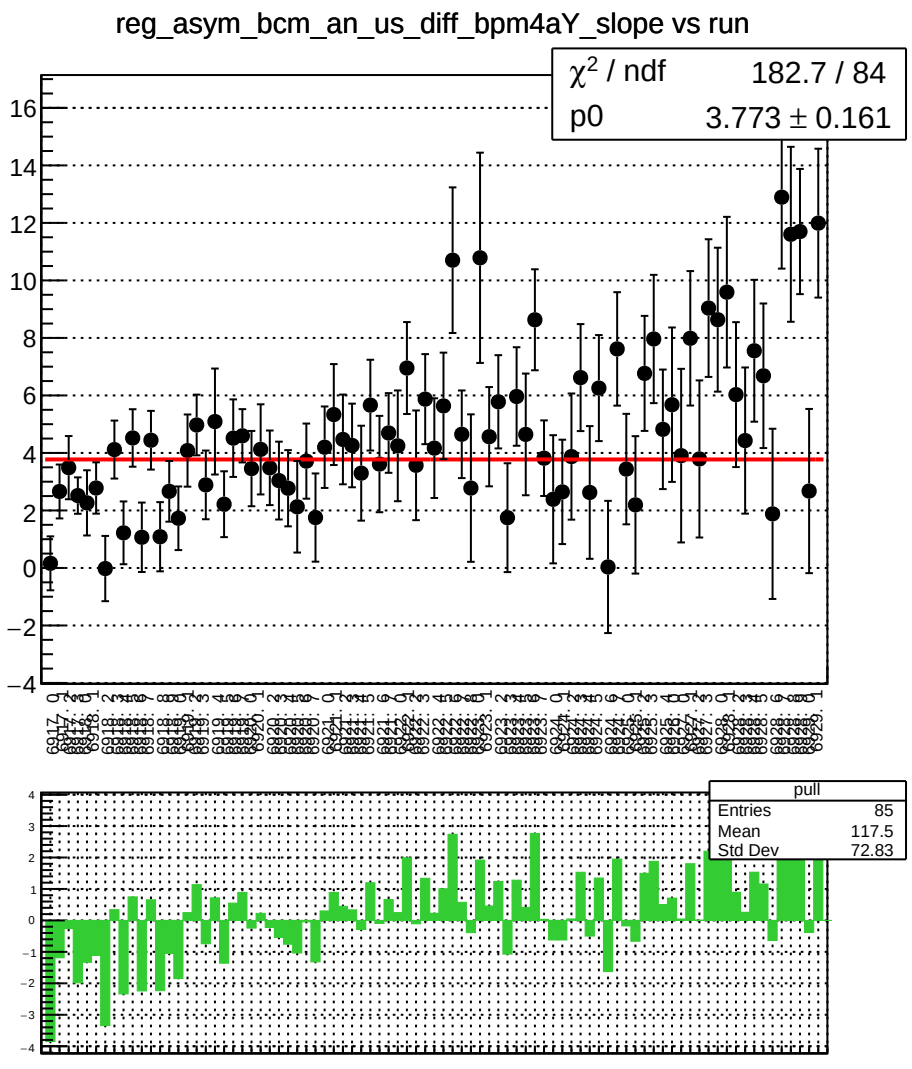

pull1D
Entries 85
Mean −0.2781
Std Dev 1.478

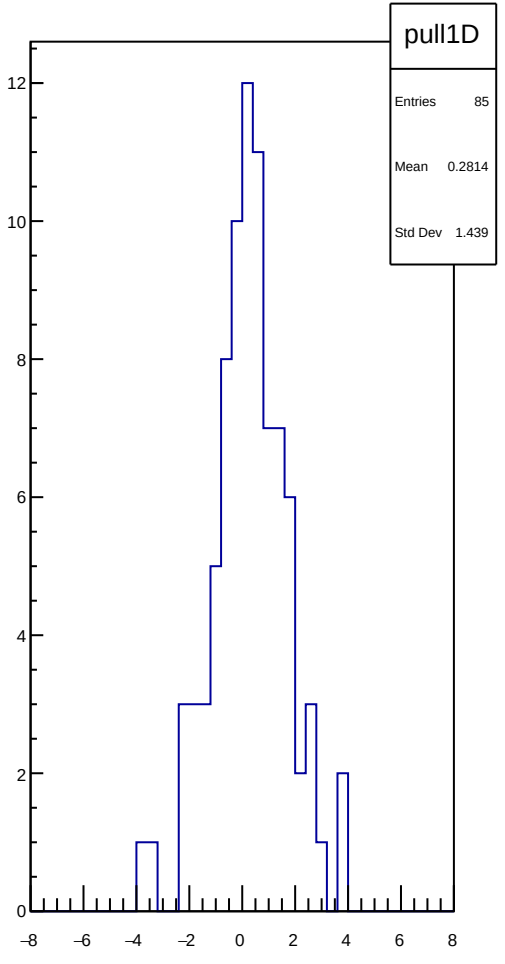

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 118.5 / 84
p0 0.005154 ± 0.007633
pull
Entries 85
Mean 104.2
Std Dev 66.27

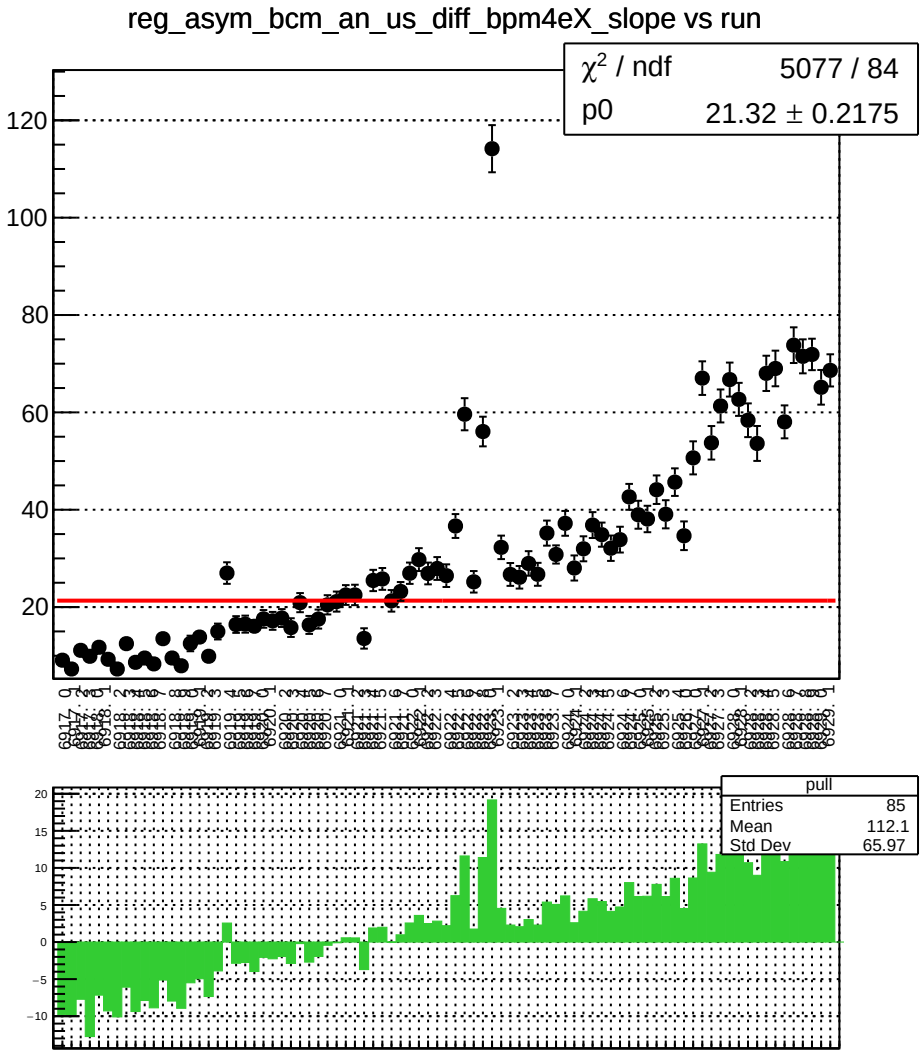

pull1D
Entries 85
Mean 0.1746
Std Dev 1.168

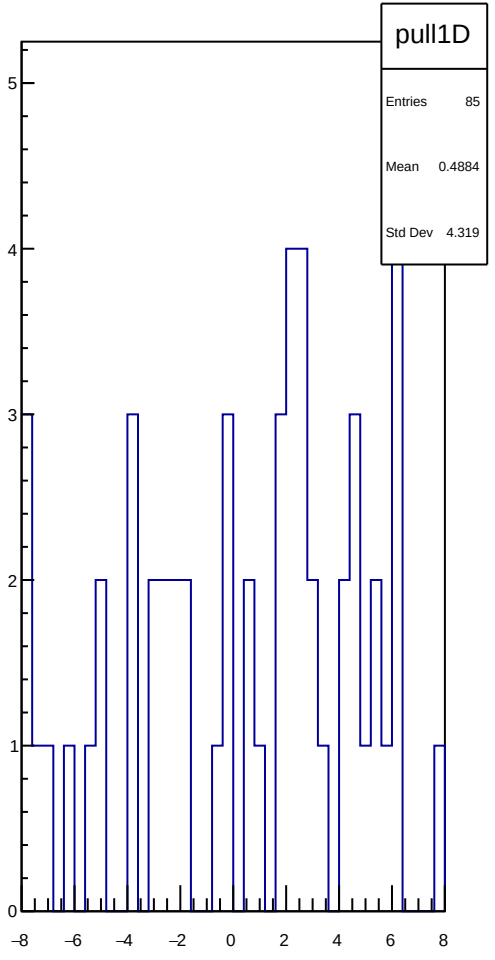

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 5318 / 84
p0 −23.81 ± 0.2343
pull
Entries 85
Mean 111.8
Std Dev 65.73

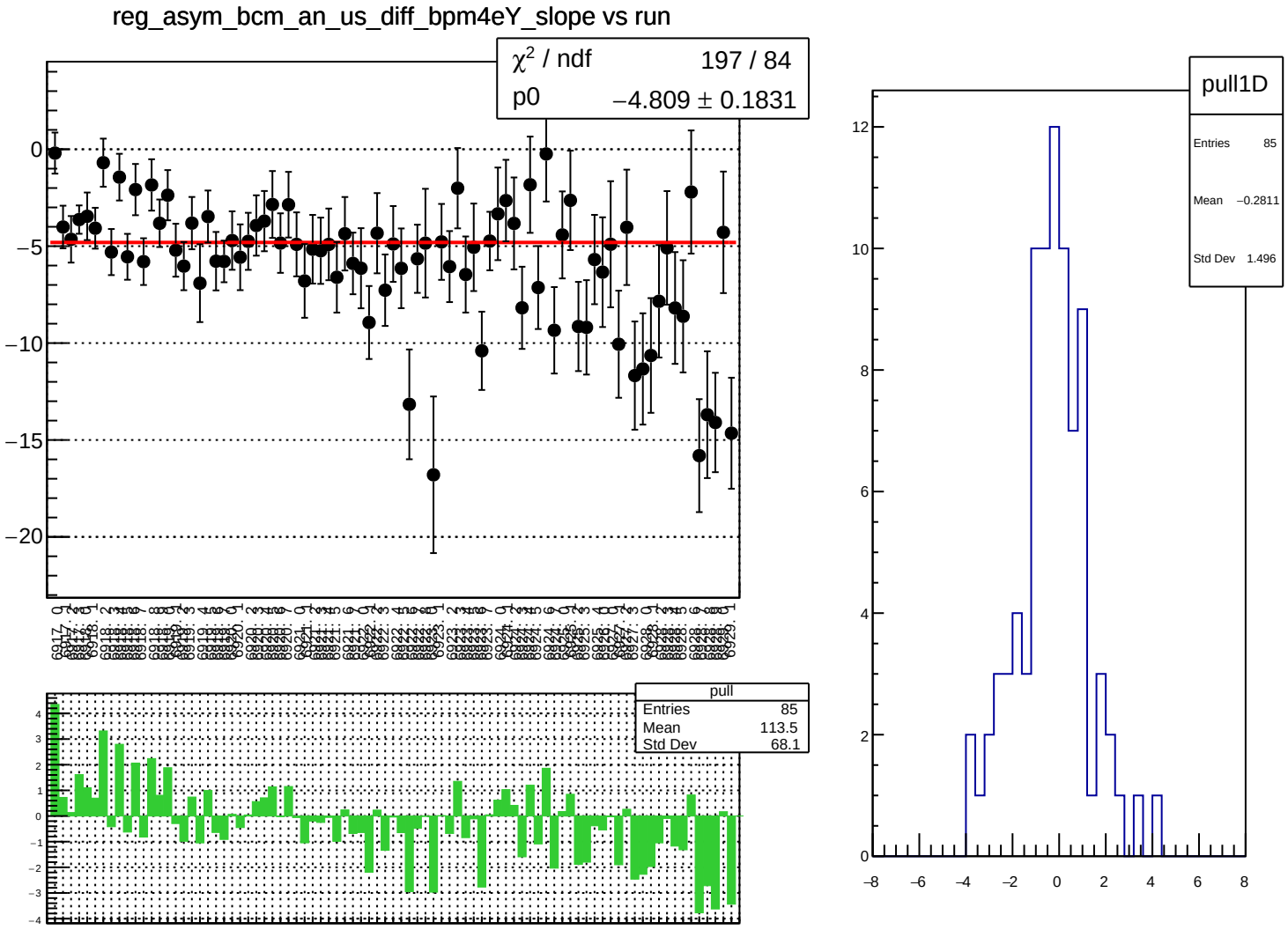

pull1D
Entries 85
Mean −0.7232
Std Dev 4.129

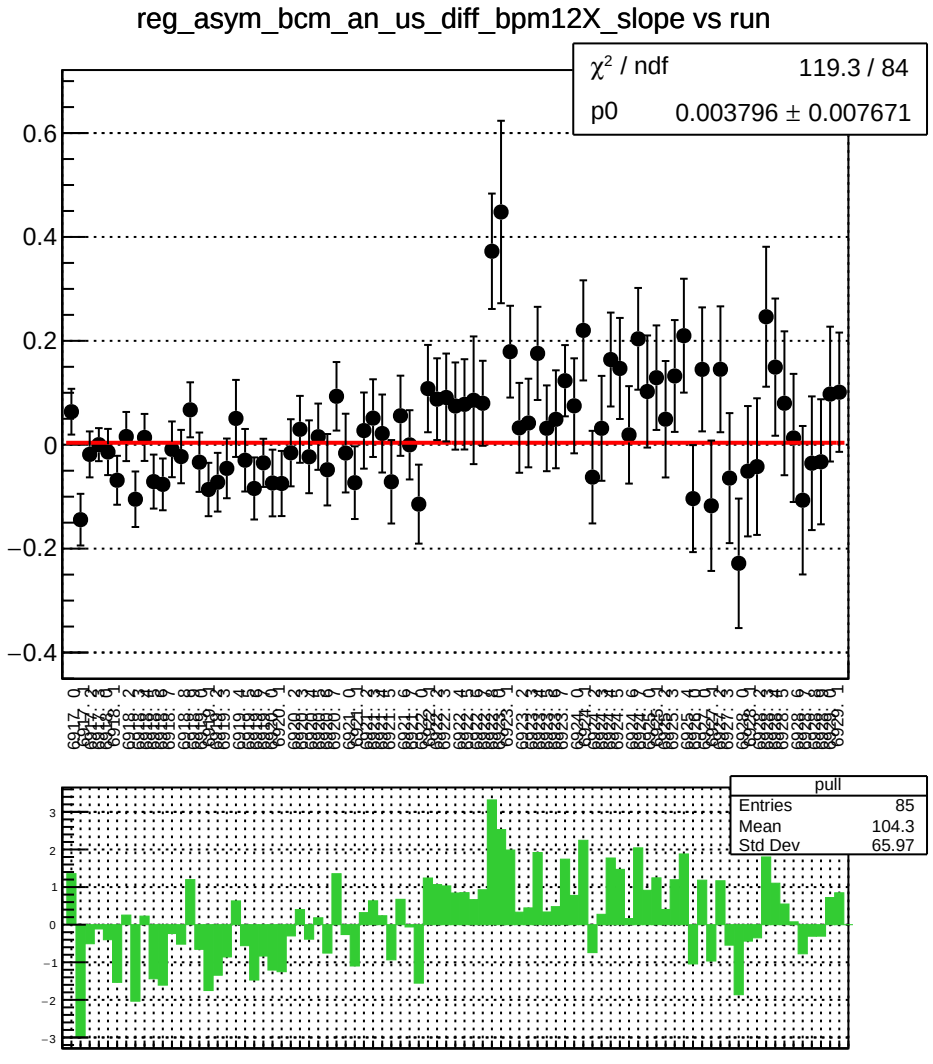

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 182.7 / 84
p0 3.773 ± 0.161
pull
Entries 85
Mean 117.5
Std Dev 72.83

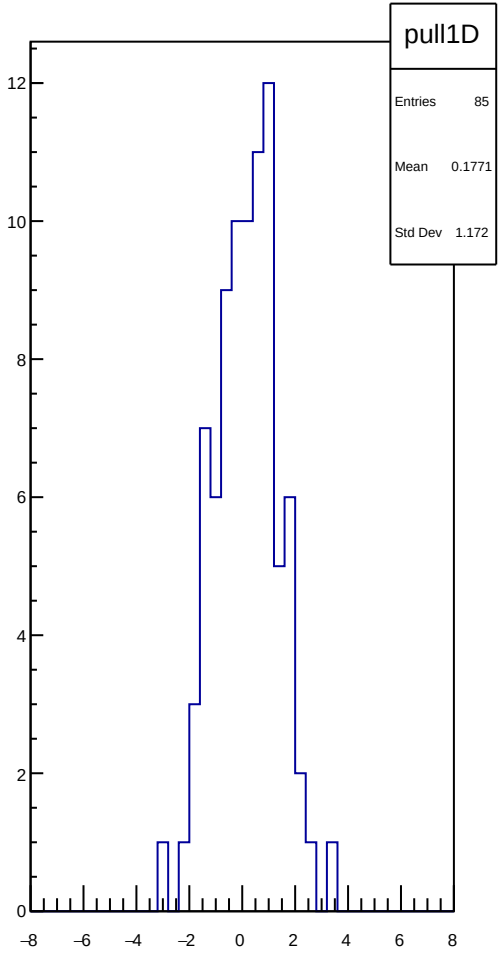

pull1D
Entries 85
Mean 0.2814
Std Dev 1.439

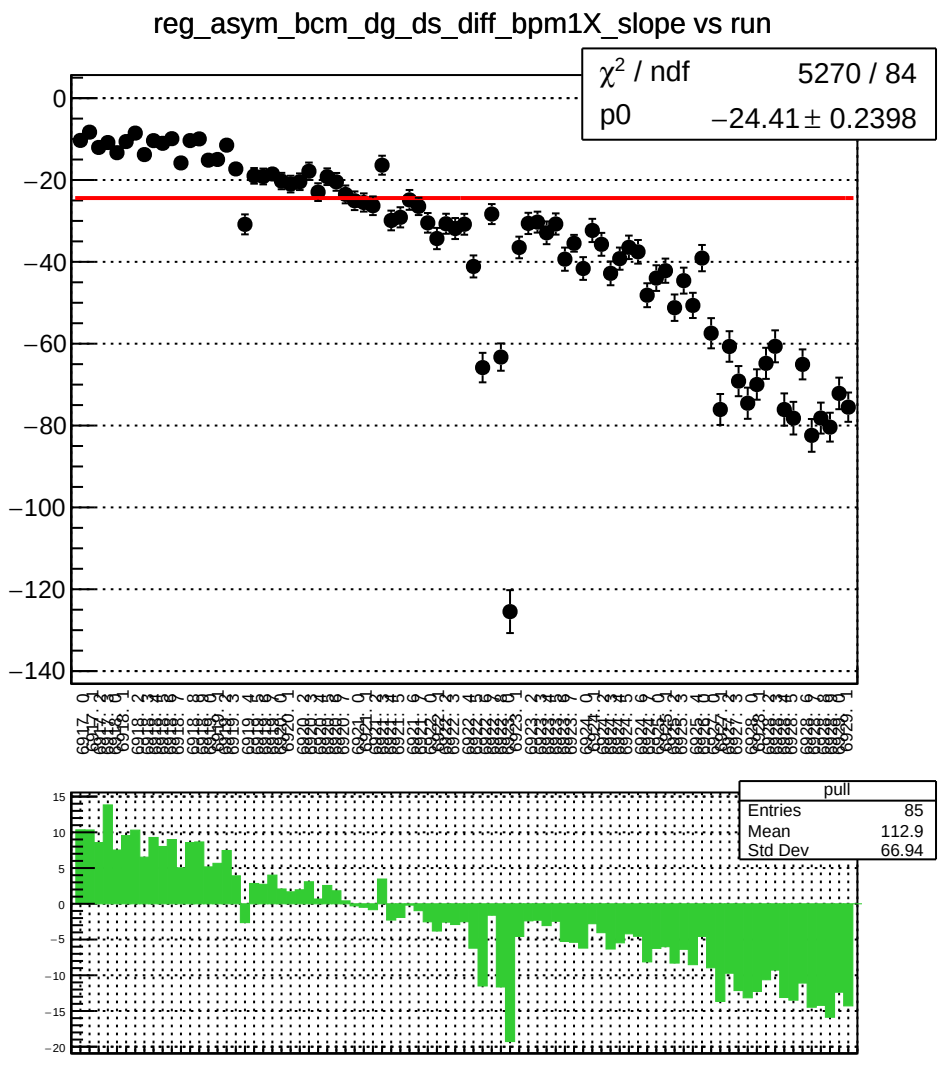

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 5077 / 84
p0 21.32 ± 0.2175
pull
Entries 85
Mean 112.1
Std Dev 65.97

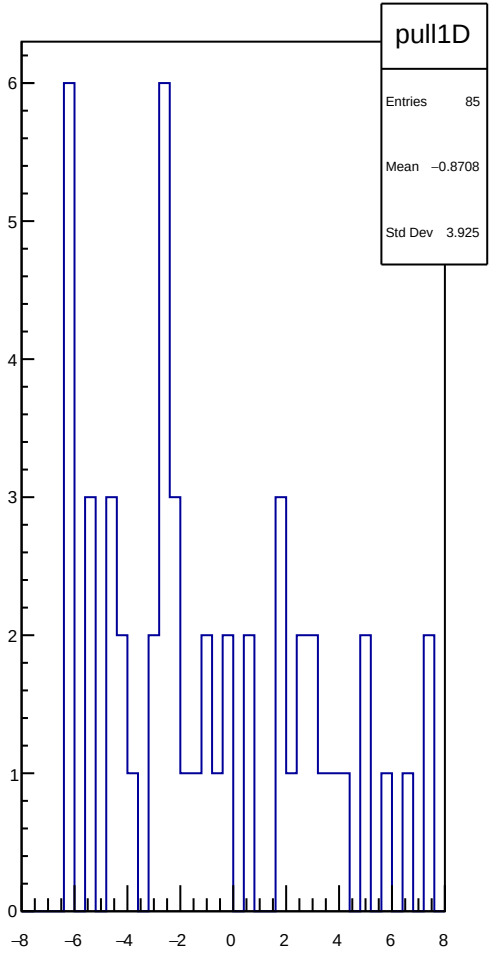

pull1D
Entries 85
Mean 0.4884
Std Dev 4.319

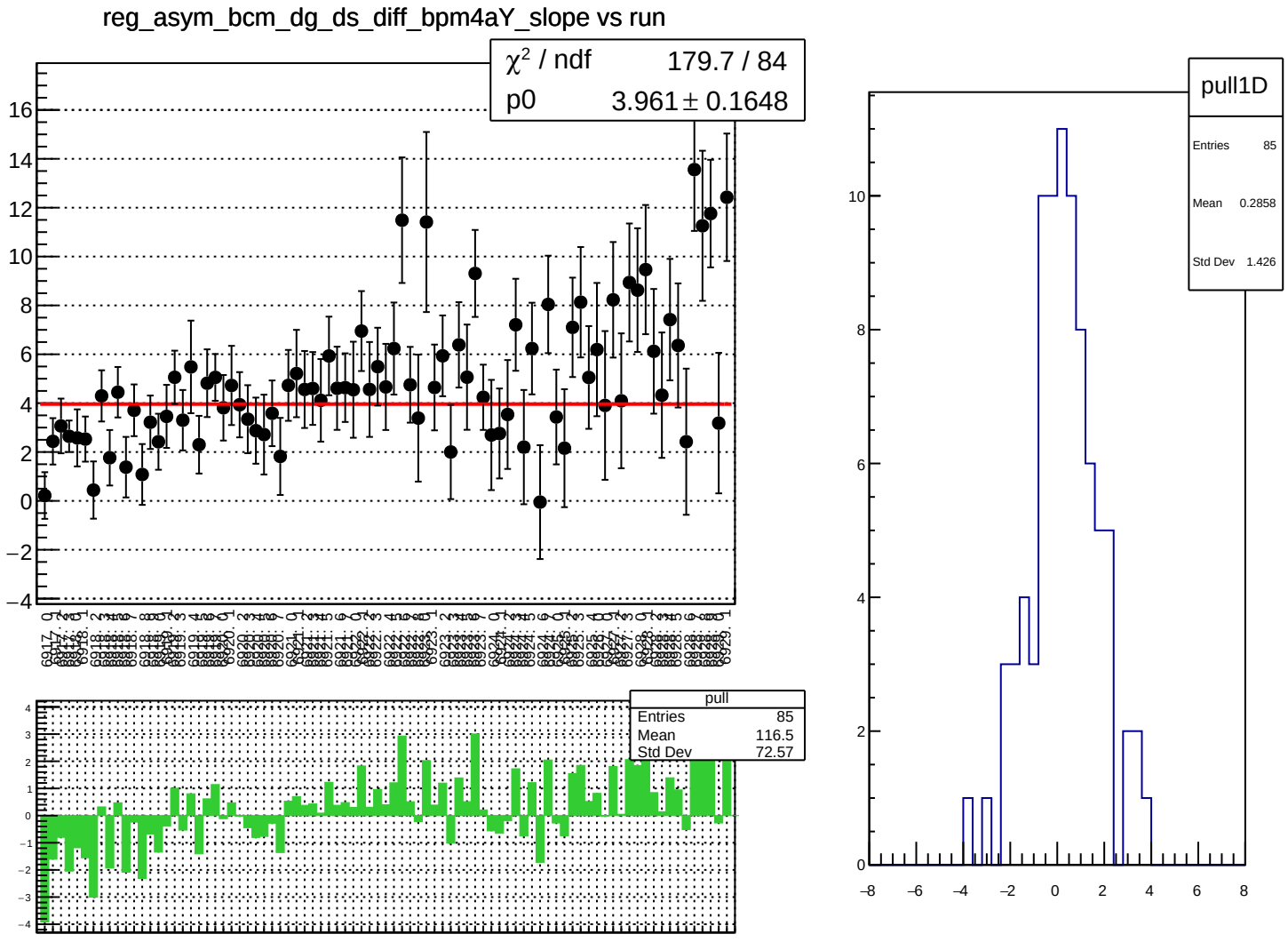

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 197 / 84
p0 −4.809 ± 0.1831
pull
Entries 85
Mean 113.5
Std Dev 68.1
pull1D
Entries 85
Mean −0.2811
Std Dev 1.496

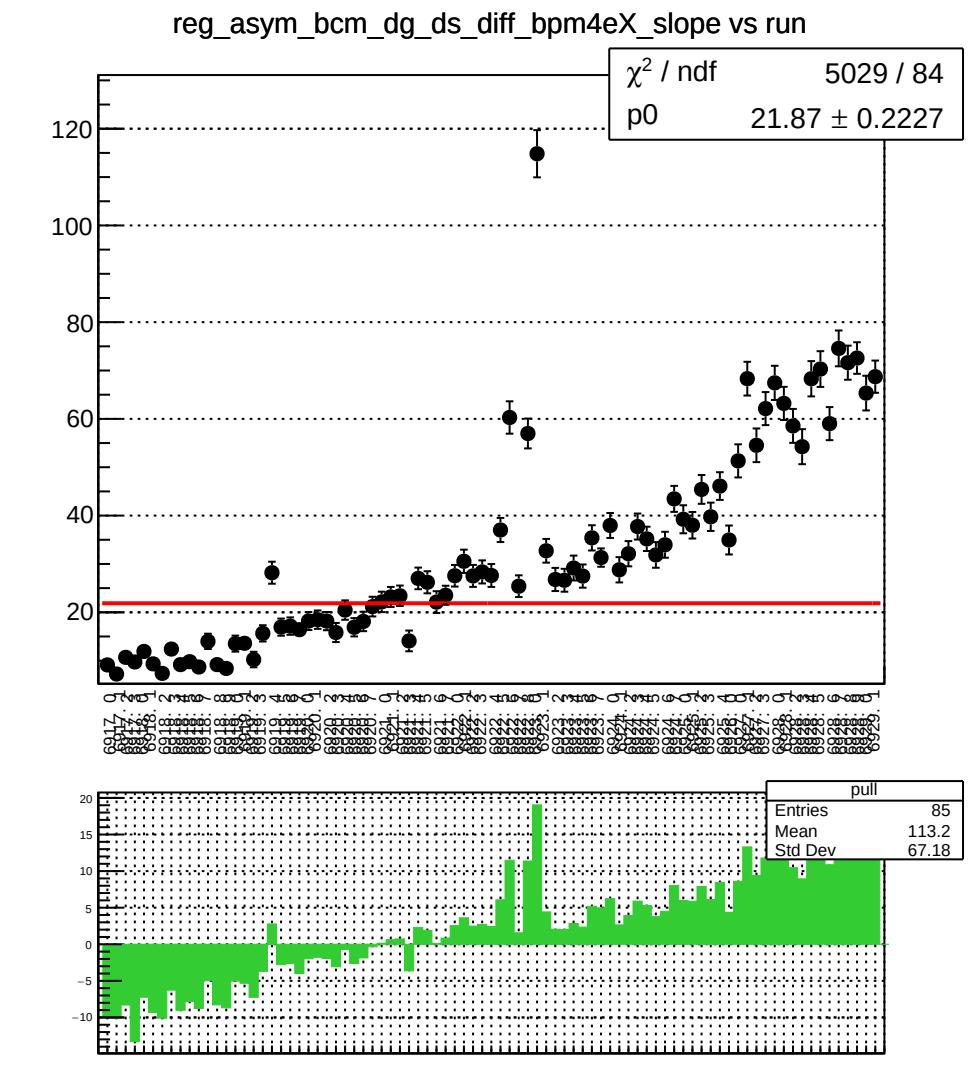

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 119.3 / 84
p0 0.003796 ± 0.007671
pull
Entries 85
Mean 104.3
Std Dev 65.97

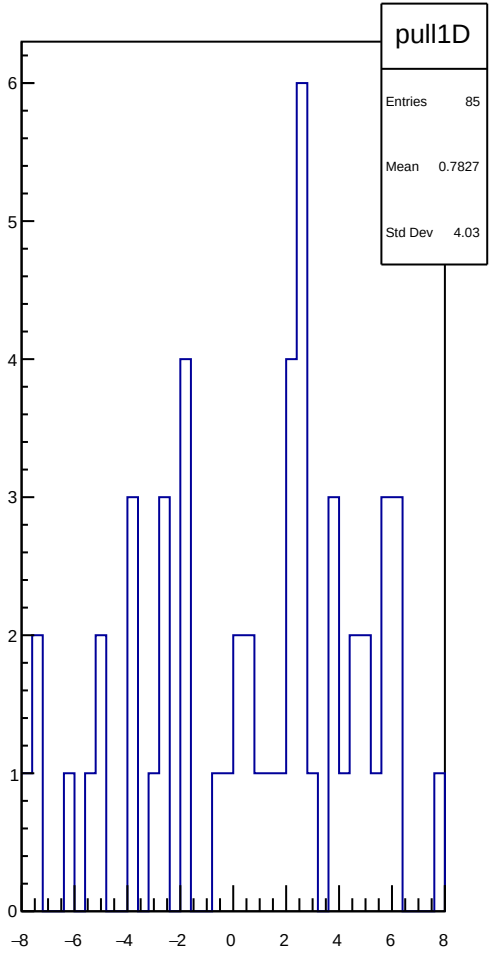

pull1D
Entries 85
Mean 0.1771
Std Dev 1.172

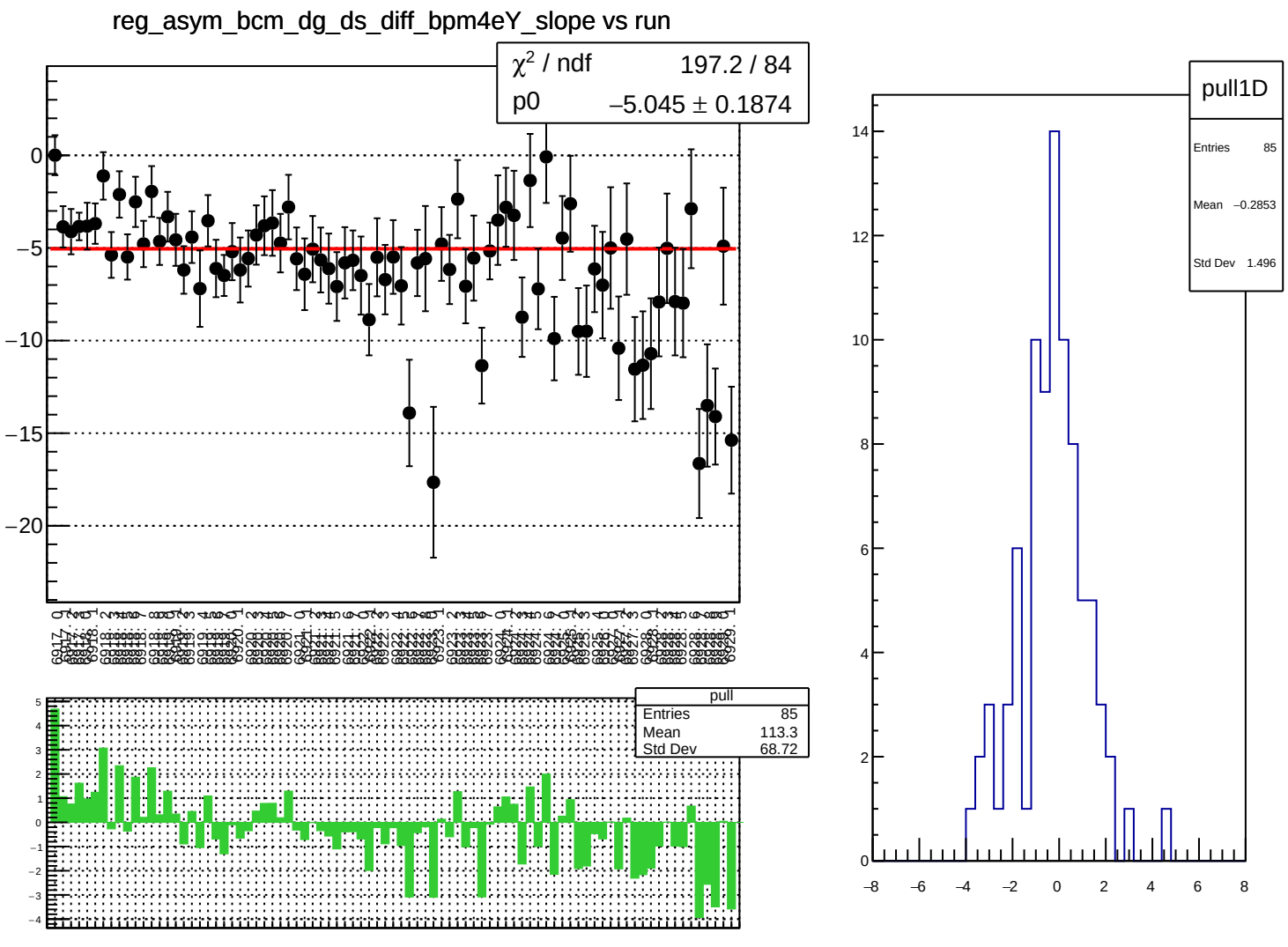

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 5270 / 84
p0 −24.41 ± 0.2398
pull
Entries 85
Mean 112.9
Std Dev 66.94

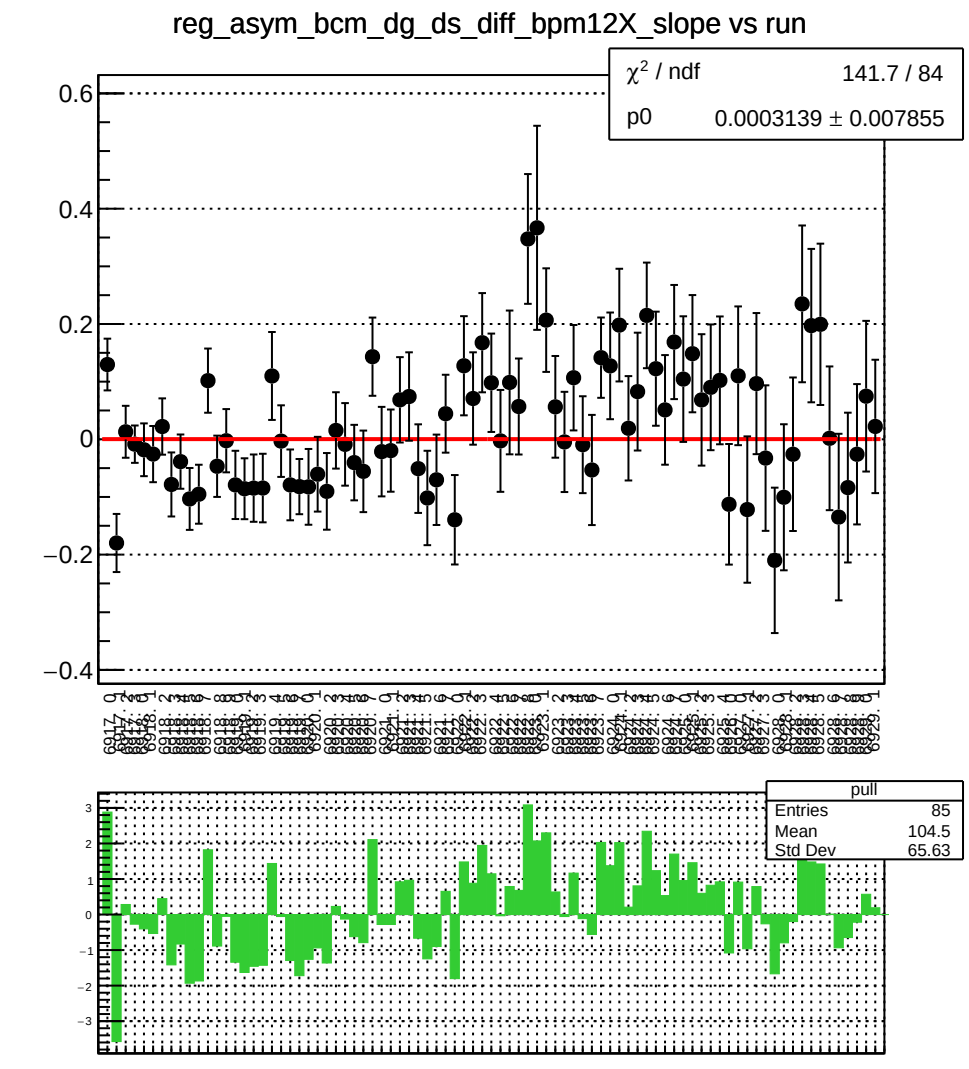

pull1D
Entries 85
Mean −0.8708
Std Dev 3.925

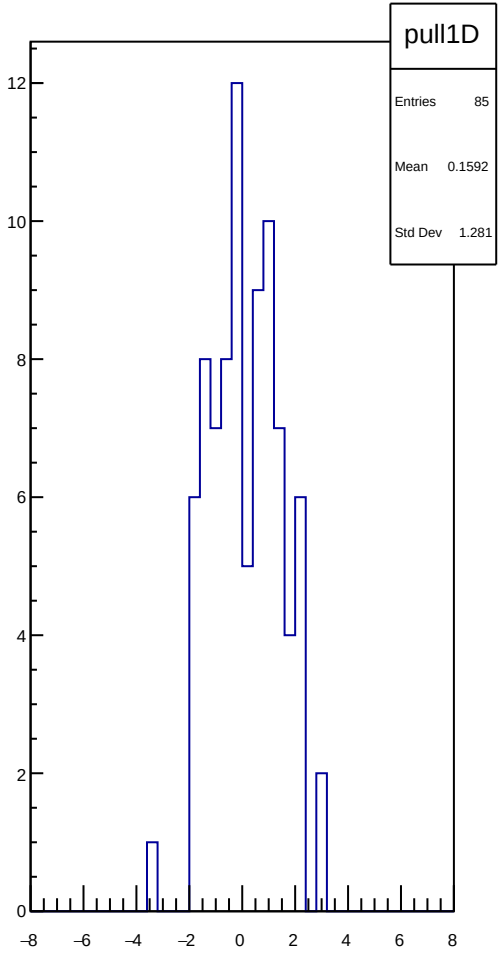

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 179.7 / 84
p0 3.961 ± 0.1648
pull
Entries 85
Mean 116.5
Std Dev 72.57
pull1D
Entries 85
Mean 0.2858
Std Dev 1.426

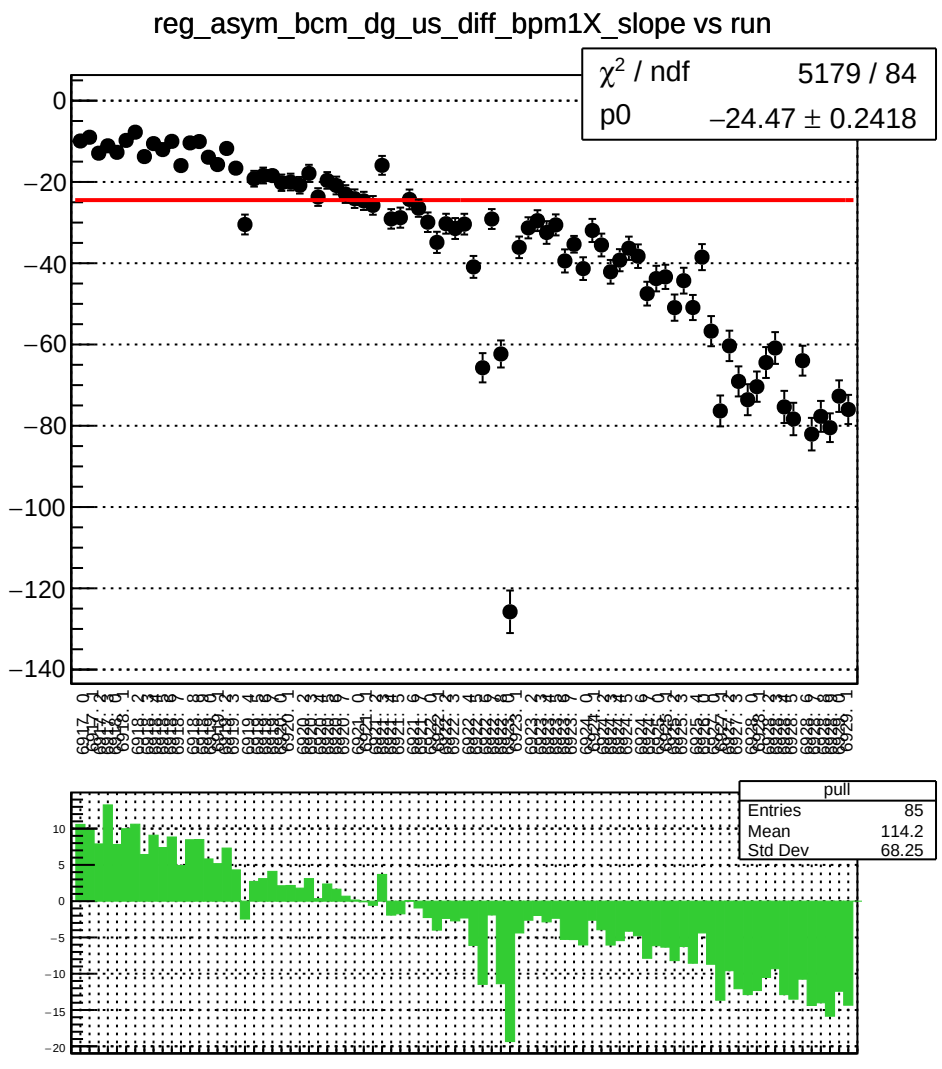

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 5029 / 84
p0 21.87 ± 0.2227
pull
Entries 85
Mean 113.2
Std Dev 67.18

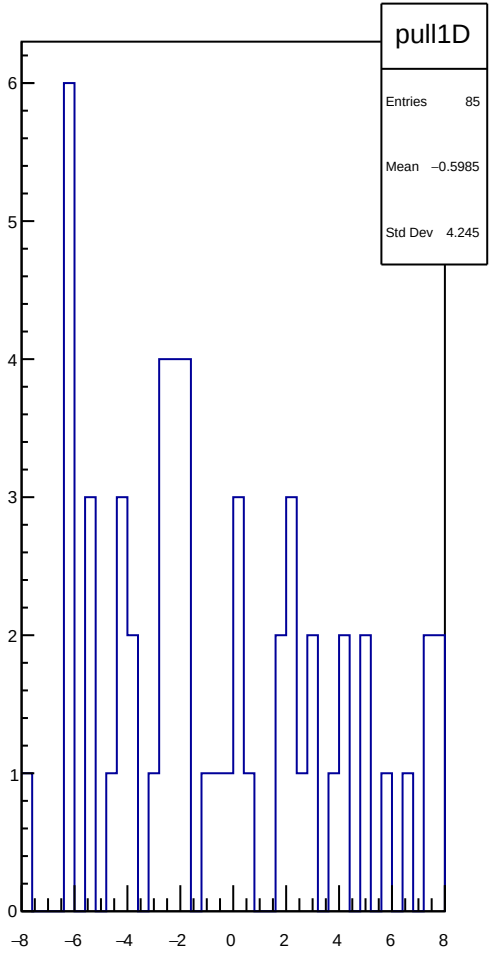

pull1D
Entries 85
Mean 0.7827
Std Dev 4.03

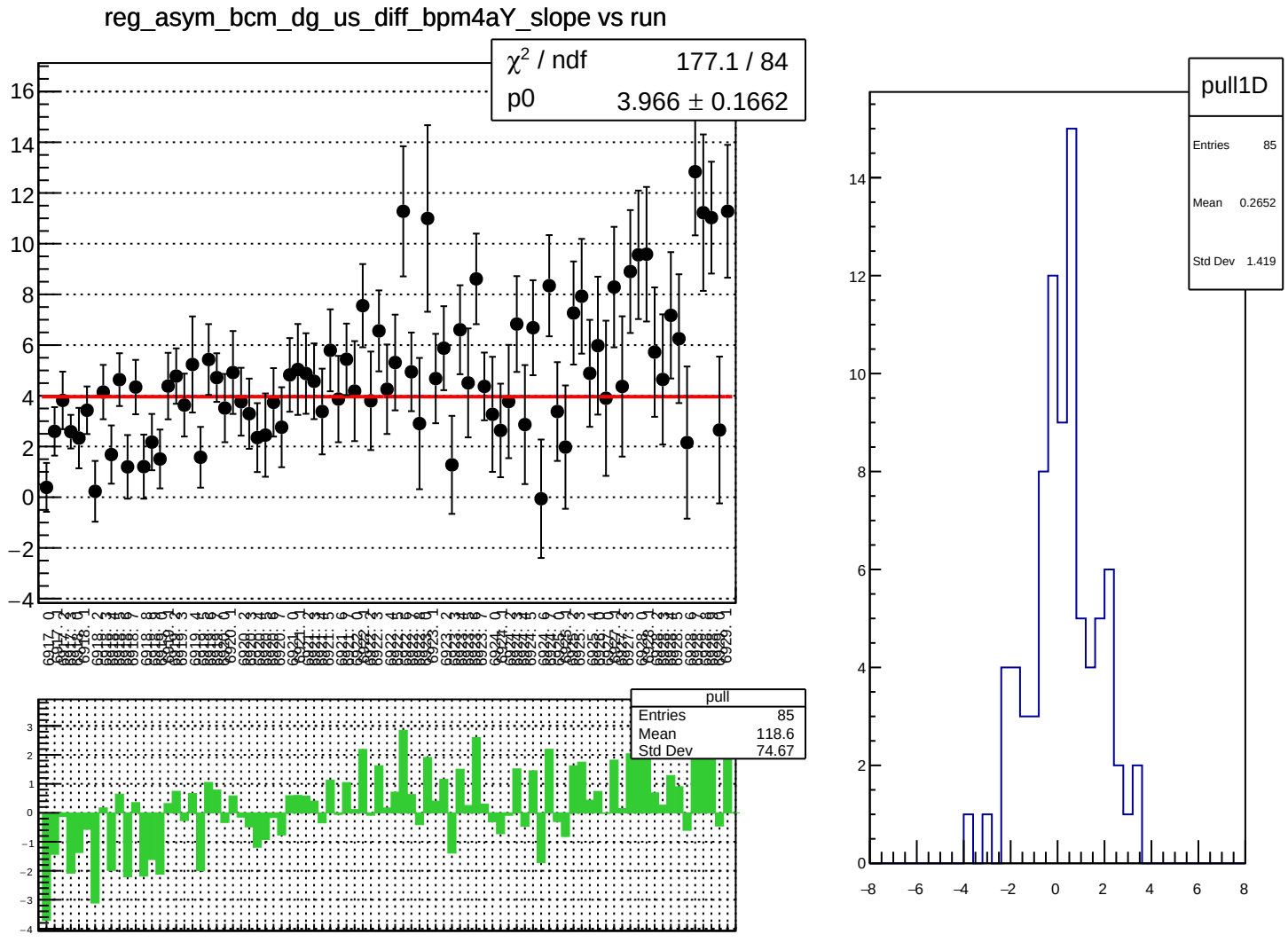

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 197.2 / 84
p0 −5.045 ± 0.1874
pull
Entries 85
Mean 113.3
Std Dev 68.72
pull1D
Entries 85
Mean −0.2853
Std Dev 1.496

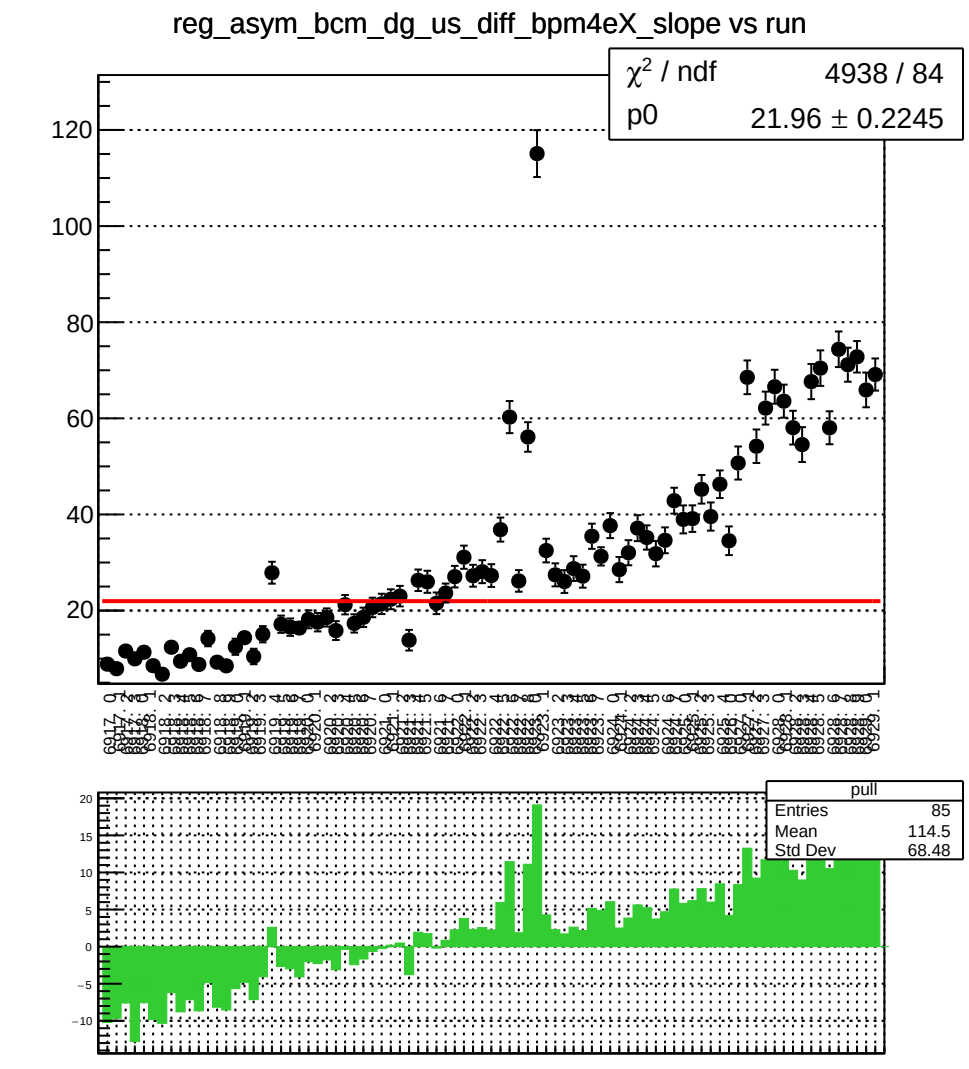

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 141.7 / 84
p0 0.0003139 ± 0.007855
pull
Entries 85
Mean 104.5
Std Dev 65.63

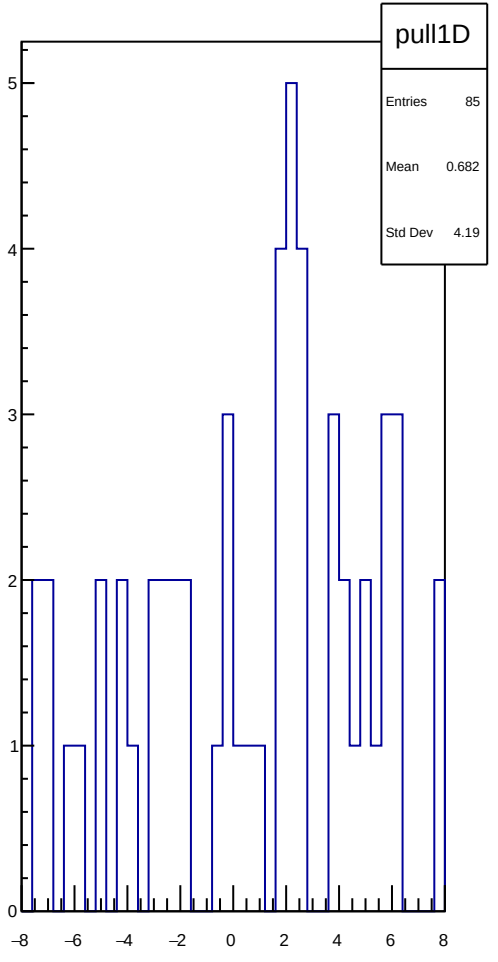

pull1D
Entries 85
Mean 0.1592
Std Dev 1.281

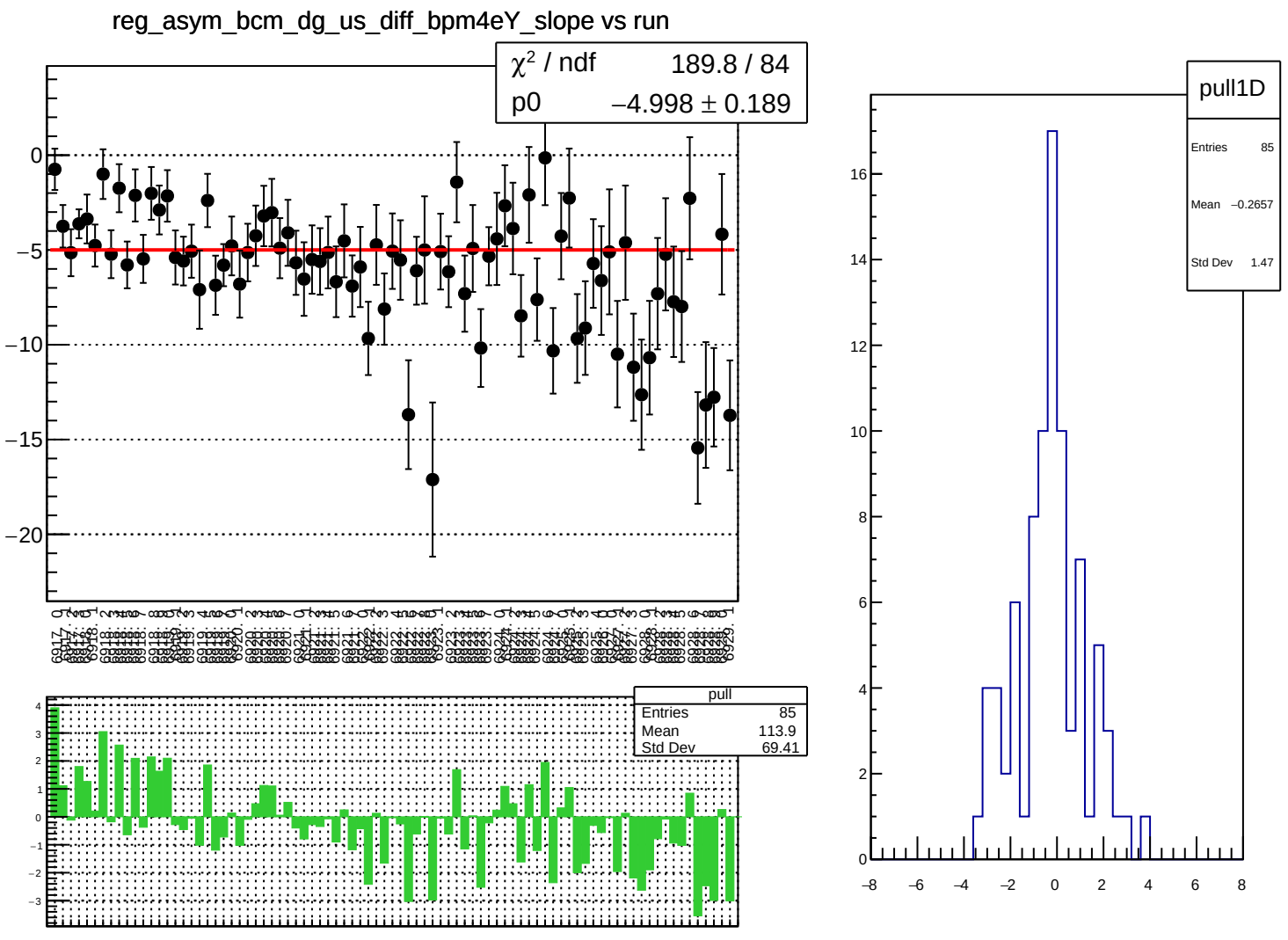

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 5179 / 84
p0 −24.47 ± 0.2418
pull
Entries 85
Mean 114.2
Std Dev 68.25

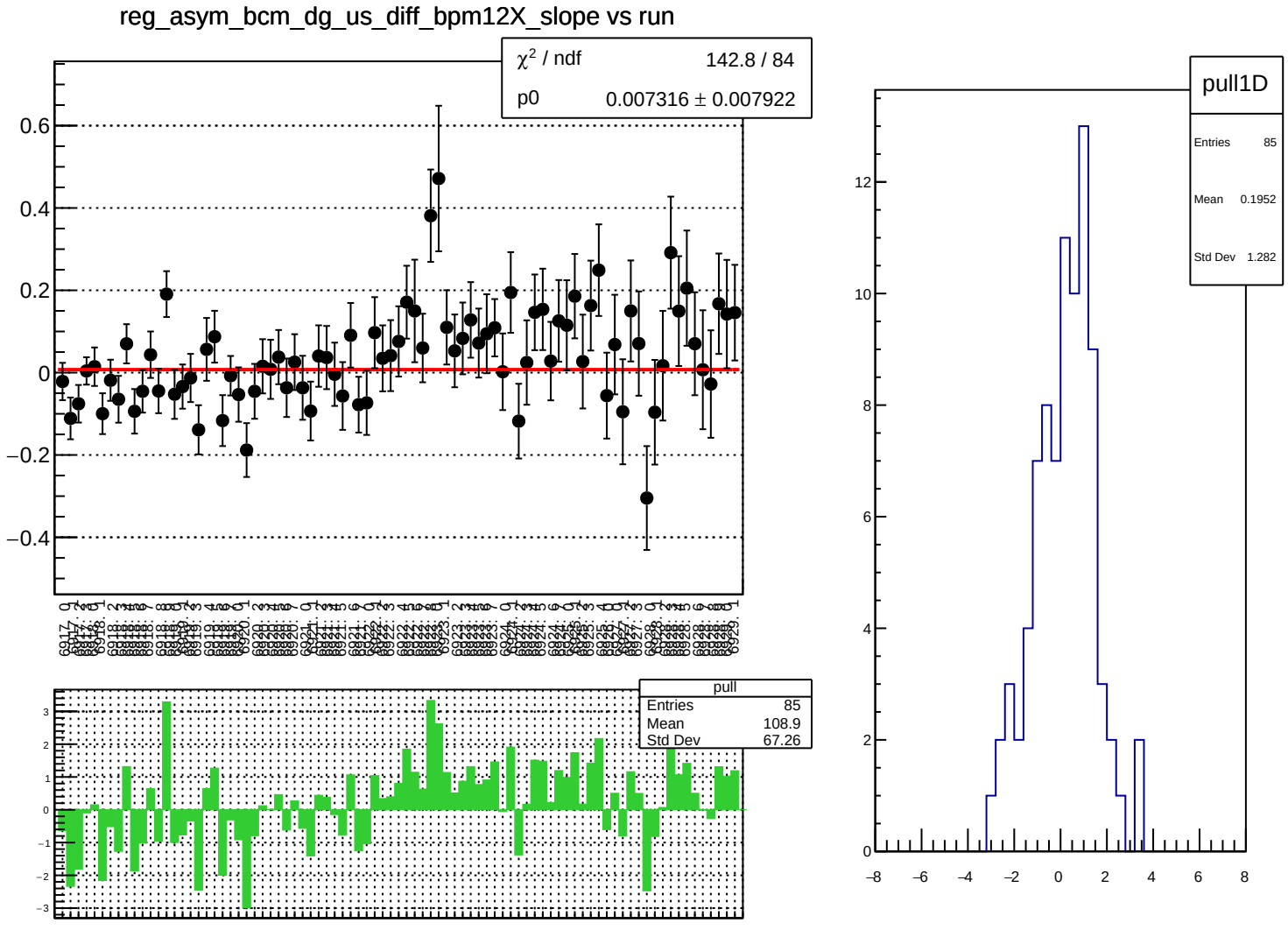

pull1D
Entries 85
Mean −0.5985
Std Dev 4.245

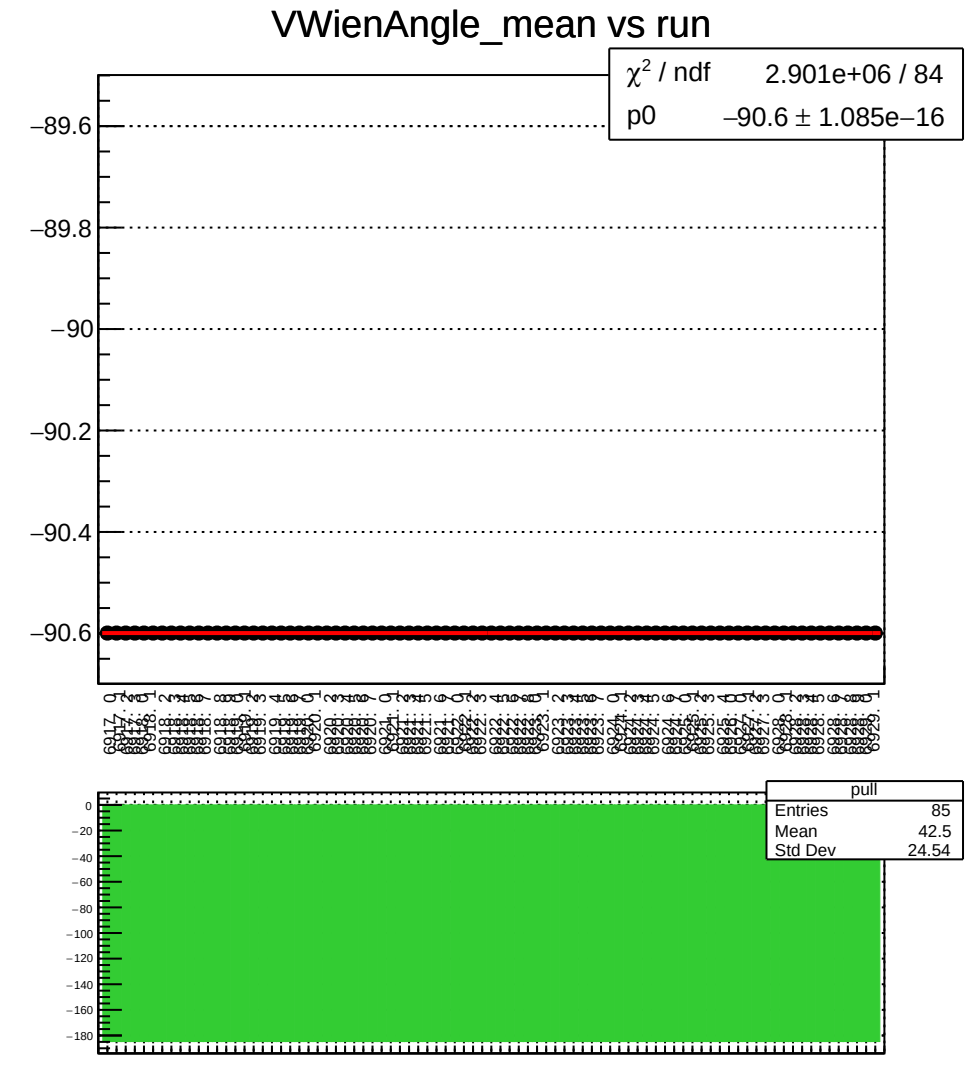

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 177.1 / 84
p0 3.966 ± 0.1662
pull
Entries 85
Mean 118.6
Std Dev 74.67
pull1D
Entries 85
Mean 0.2652
Std Dev 1.419

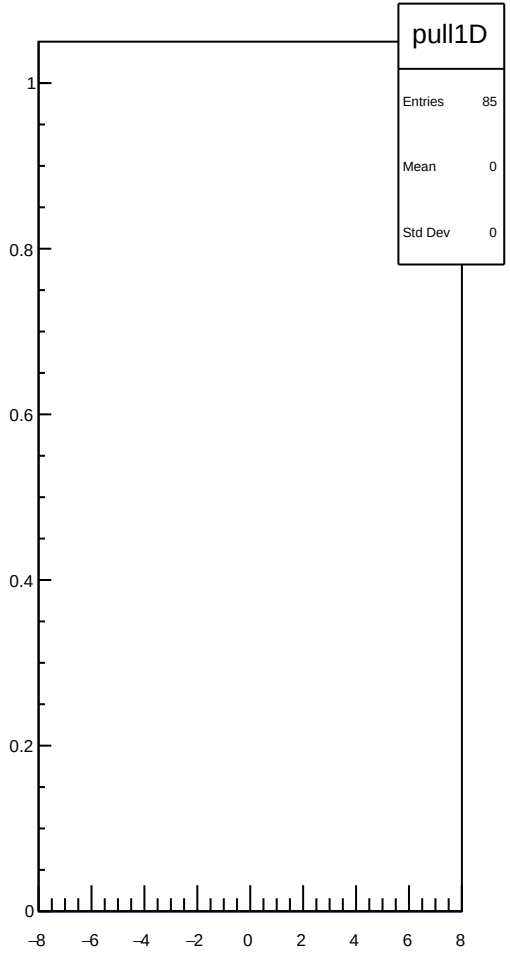

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 4938 / 84
p0 21.96 ± 0.2245
pull
Entries 85
Mean 114.5
Std Dev 68.48

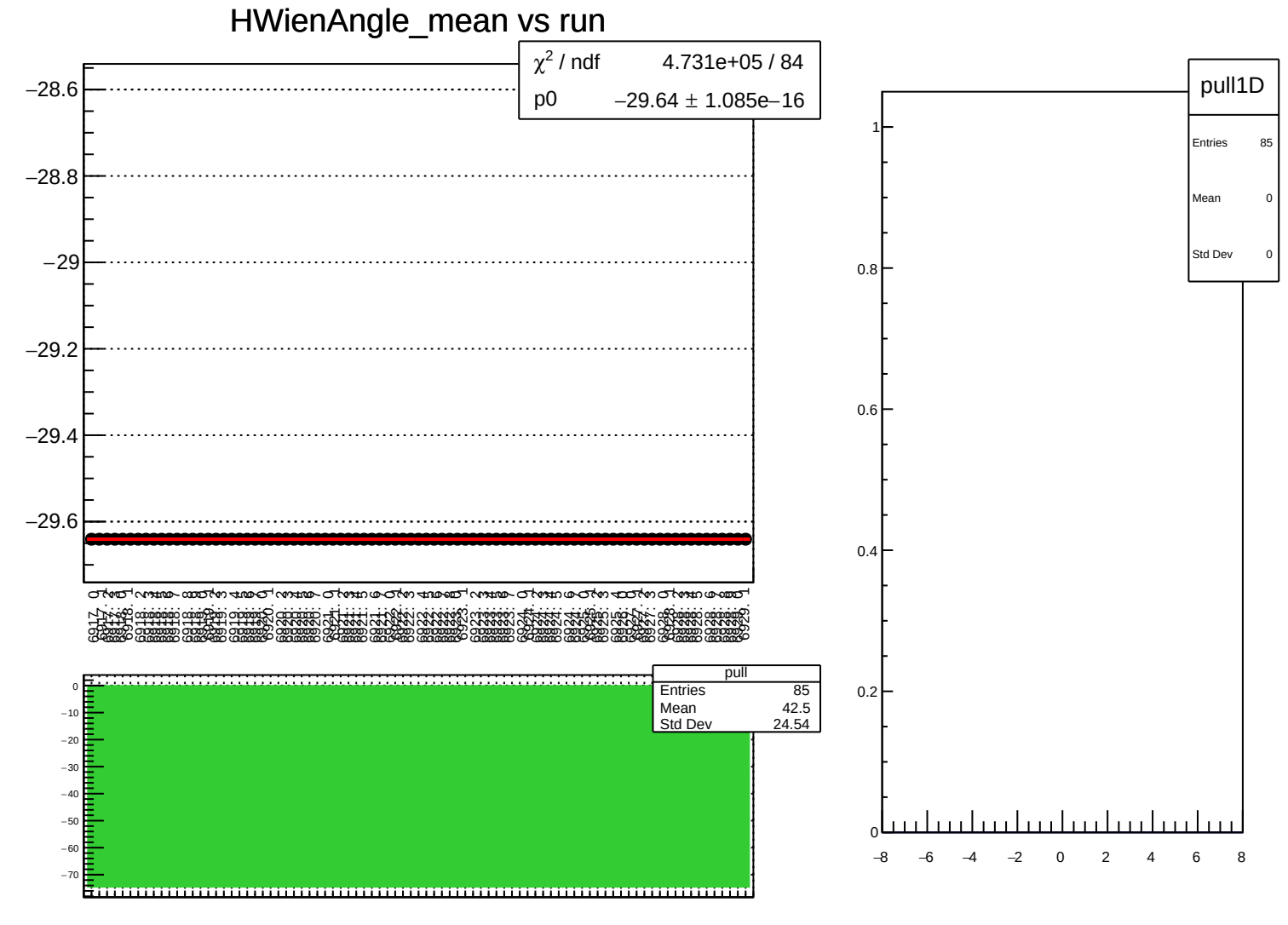

pull1D
Entries 85
Mean 0.682
Std Dev 4.19

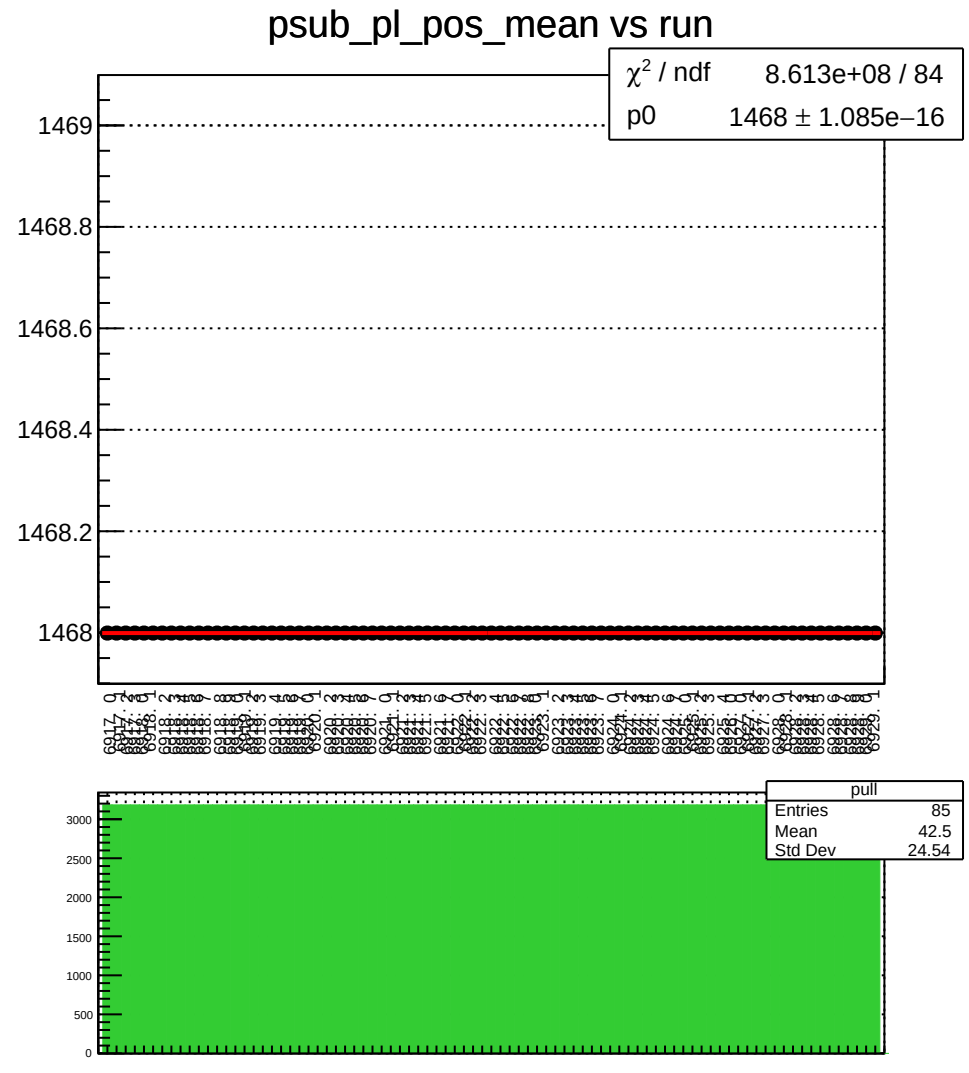

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 189.8 / 84
p0 −4.998 ± 0.189
pull
Entries 85
Mean 113.9
Std Dev 69.41
pull1D
Entries 85
Mean −0.2657
Std Dev 1.47

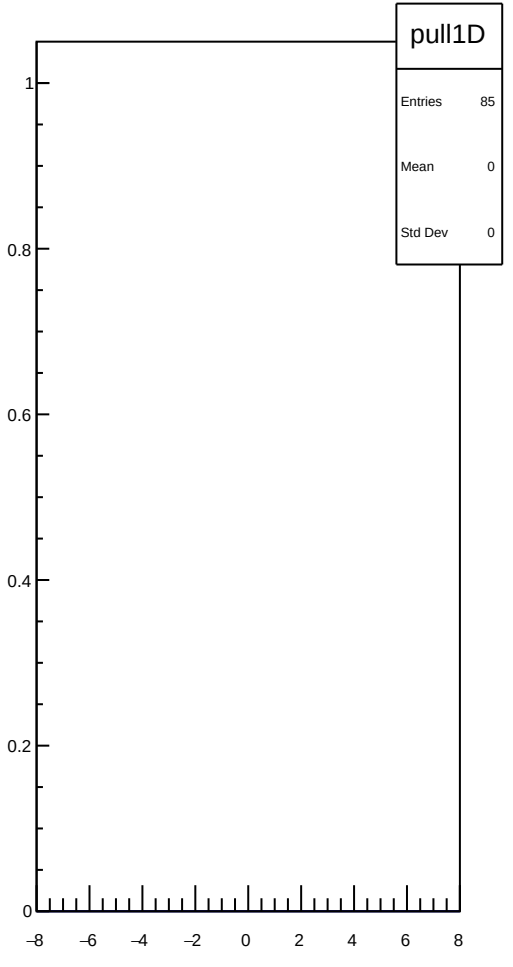

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 142.8 / 84
p0 0.007316 ± 0.007922
pull
Entries 85
Mean 108.9
Std Dev 67.26
pull1D
Entries 85
Mean 0.1952
Std Dev 1.282

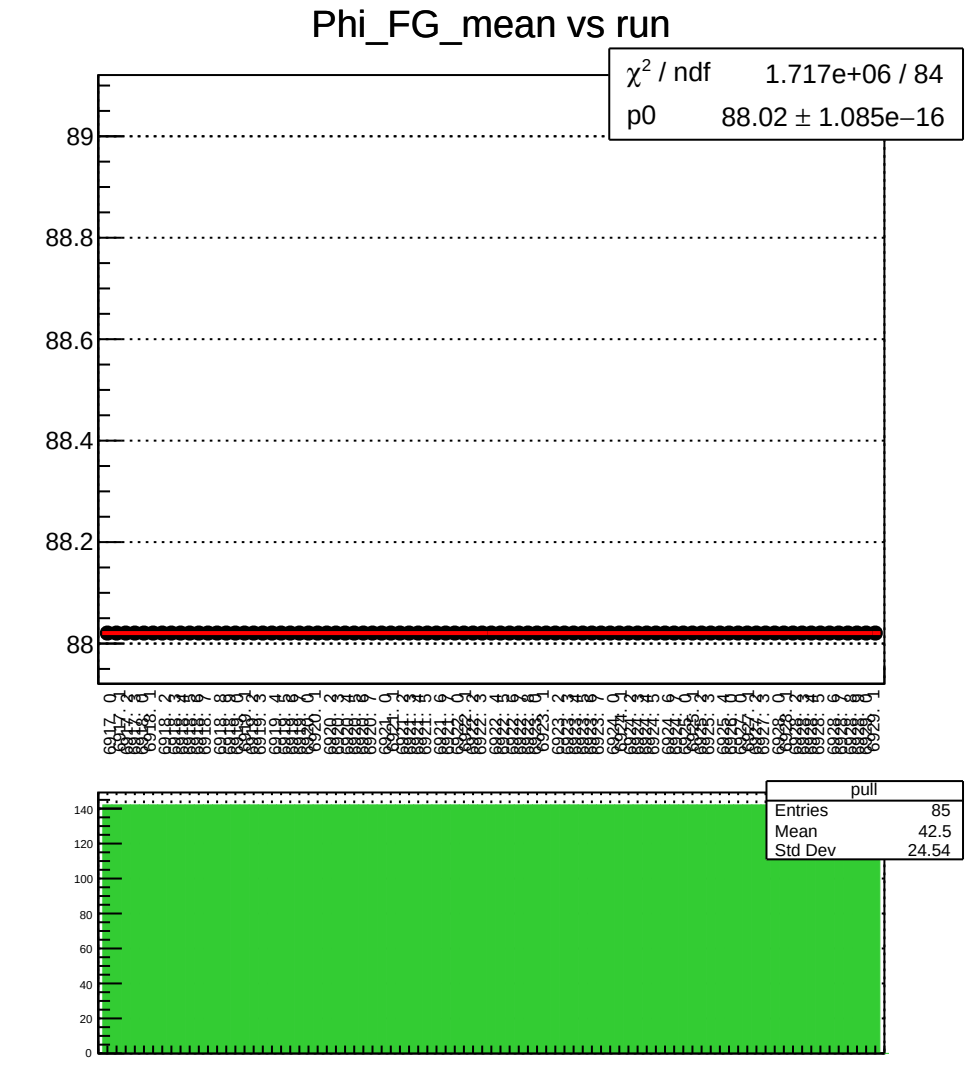

VWienAngle_mean vs run
χ² / ndf 2.901e+06 / 84
p0 −90.6 ± 1.085e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

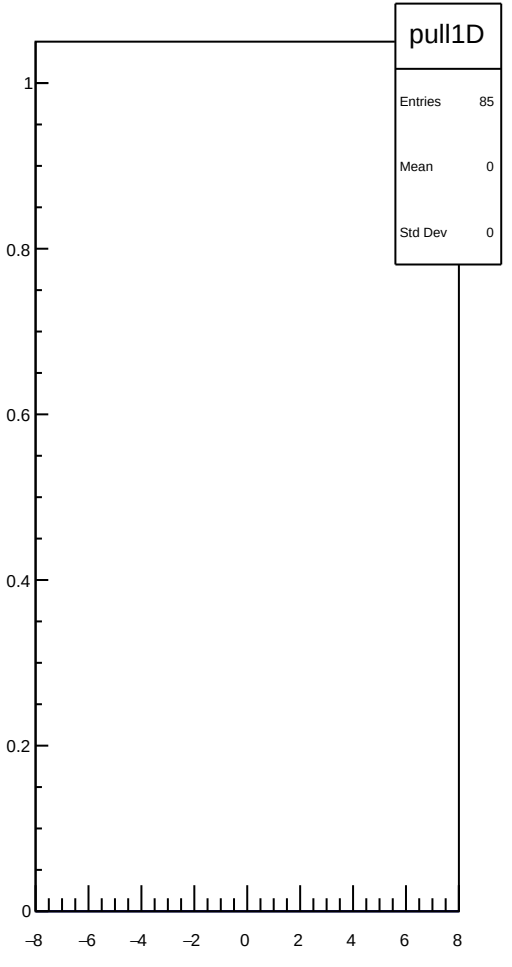

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

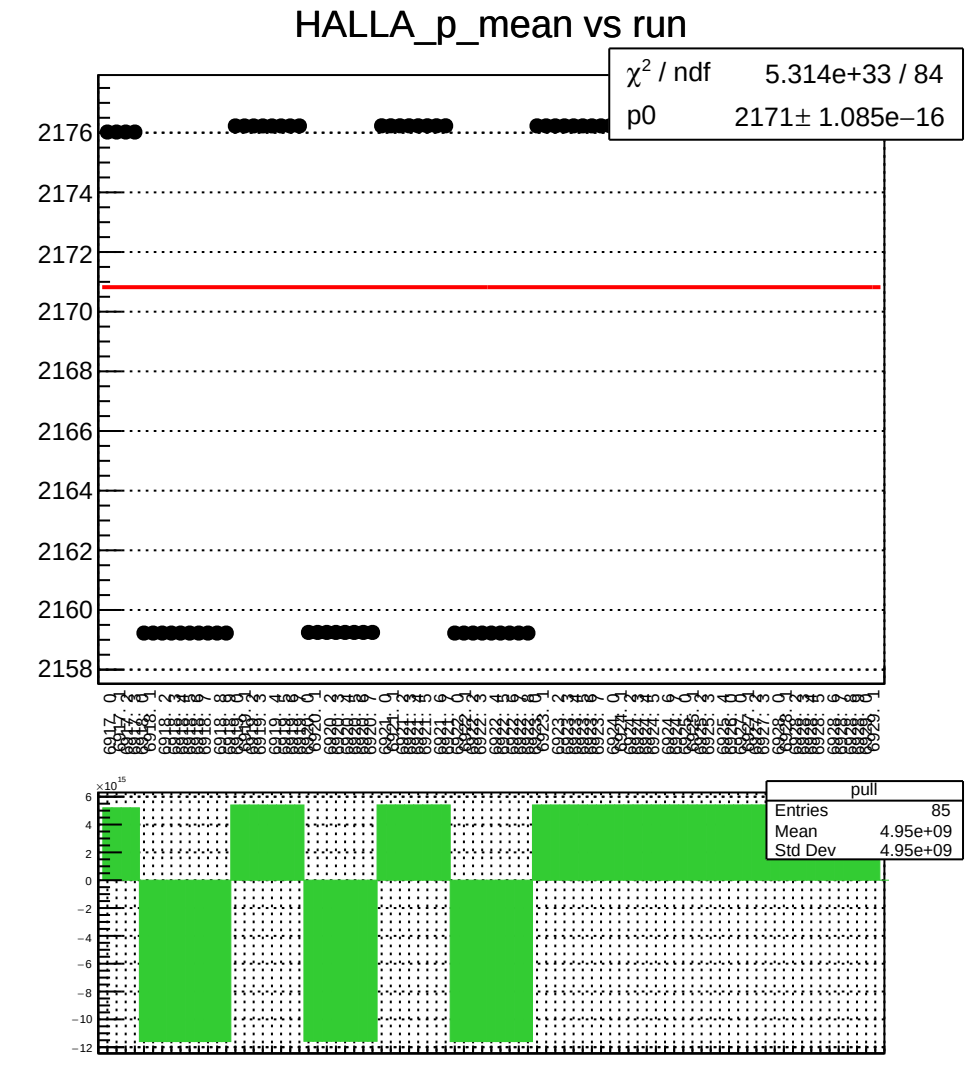

HWienAngle_mean vs run
χ² / ndf 4.731e+05 / 84
p0 −29.64 ± 1.085e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

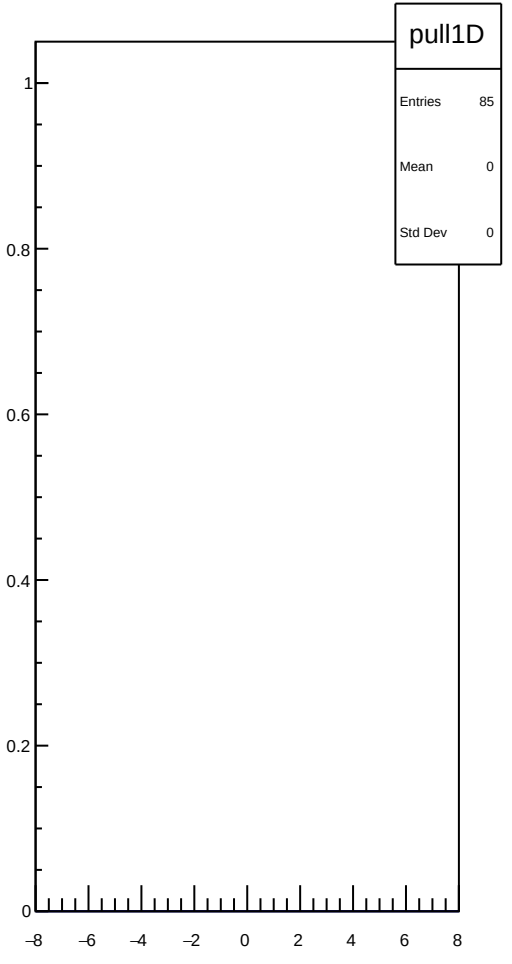

psub_pl_pos_mean vs run
χ² / ndf 8.613e+08 / 84
p0 1468 ± 1.085e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 85
Mean 42.5
Std Dev 24.54
3000
2500
2000
1500
1000
500
0

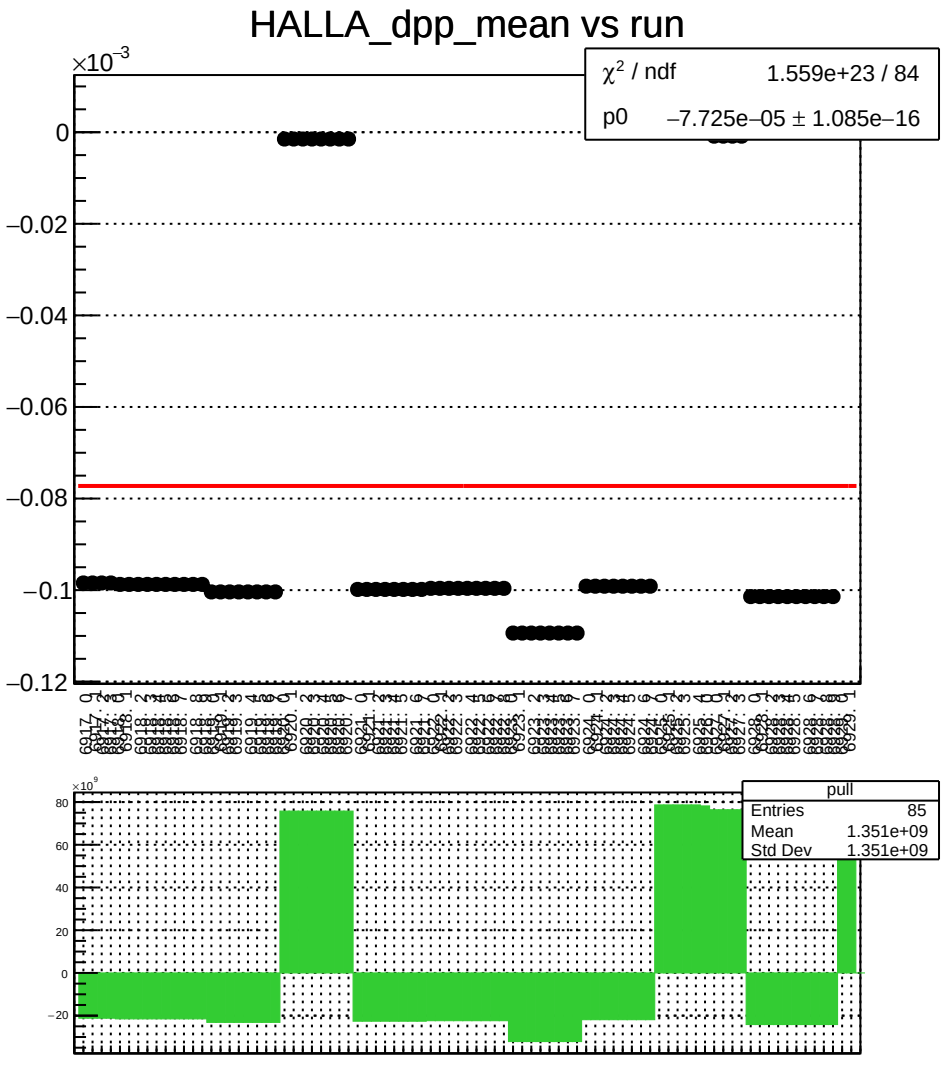

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

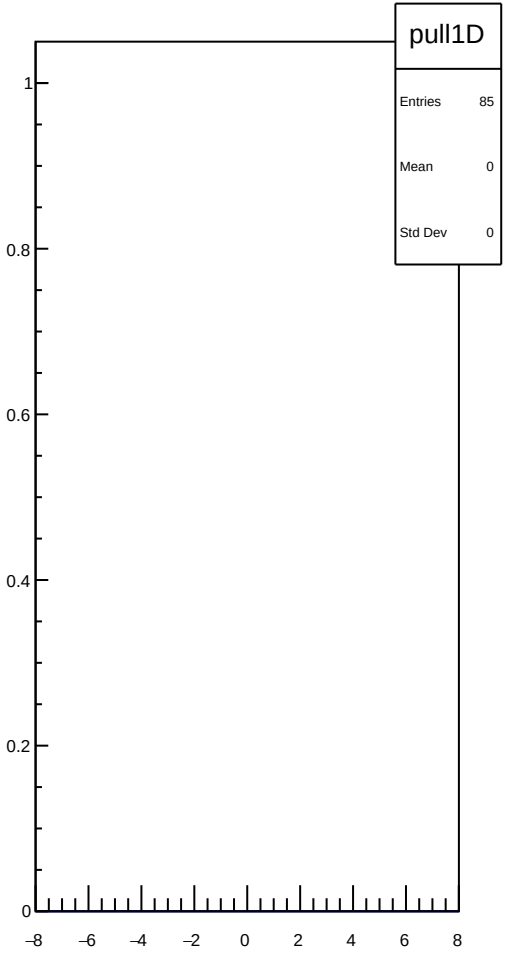

Phi_FG_mean vs run
χ² / ndf 1.717e+06 / 84
p0 88.02 ± 1.085e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 85
Mean 42.5
Std Dev 24.54
140
120
100
80
60
40
20
0

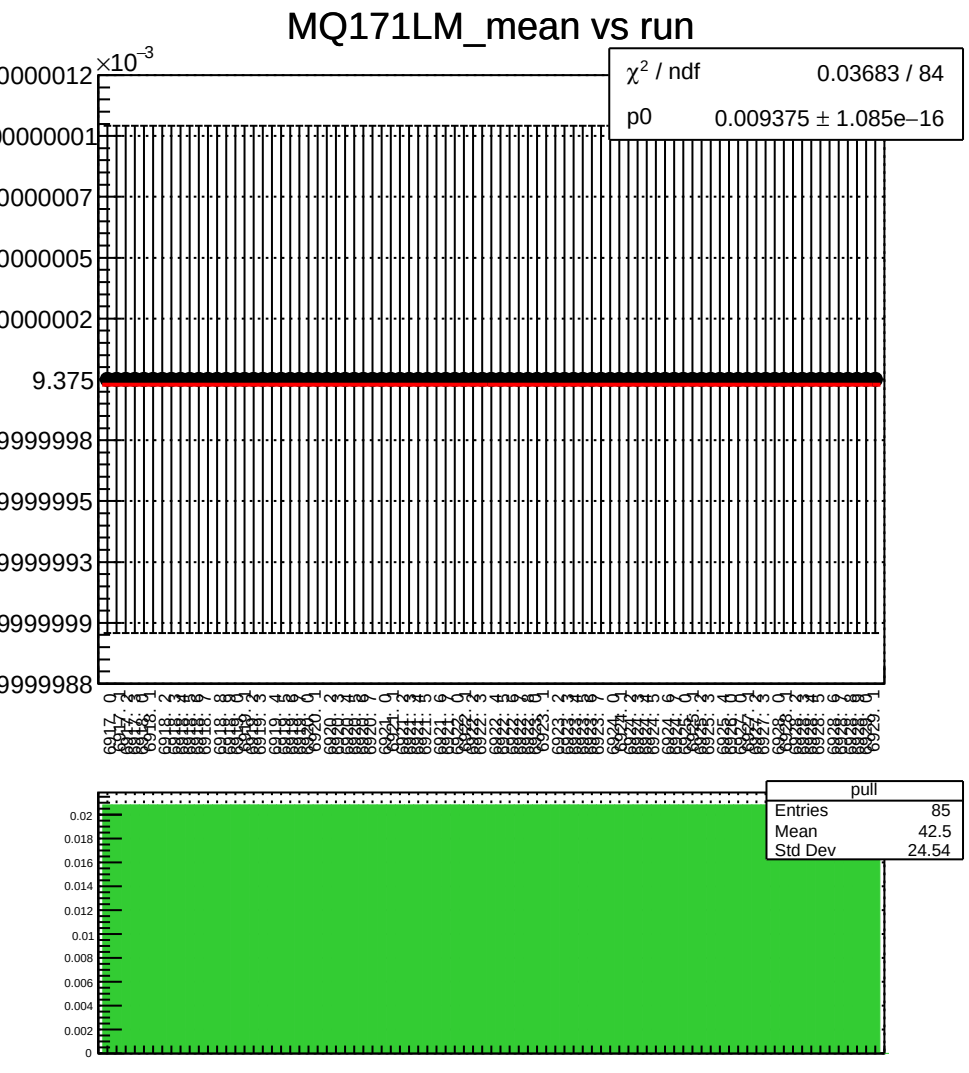

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

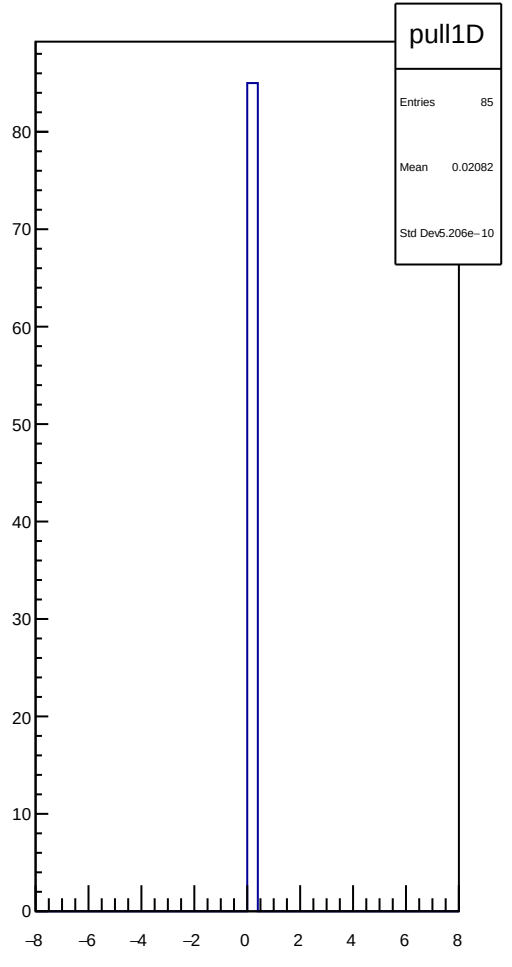

HALLA_p_mean vs run
χ² / ndf 5.314e+33 / 84
p0 2171± 1.085e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 85
Mean 4.95e+09
Std Dev 4.95e+09
×10¹⁵
6
4
2
0
−2
−4
−6
−8
−10
−12

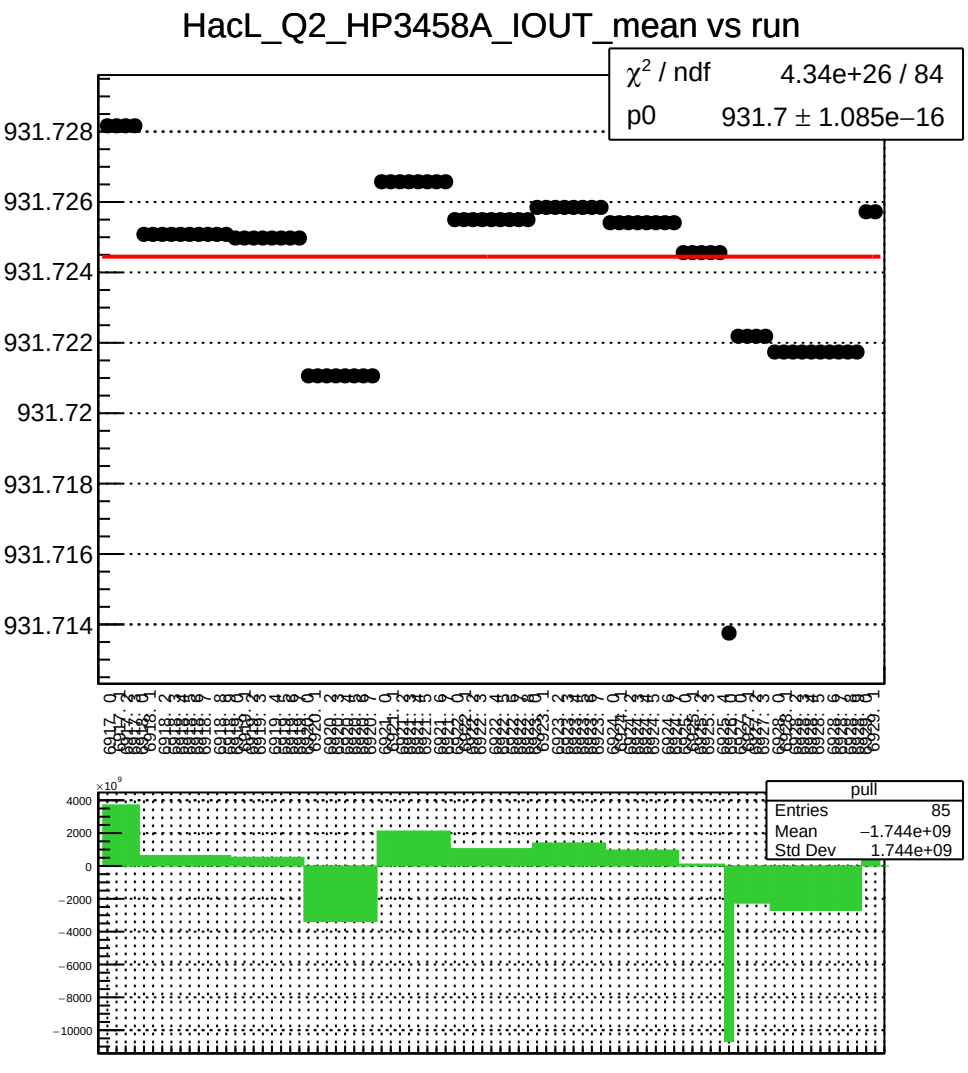

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

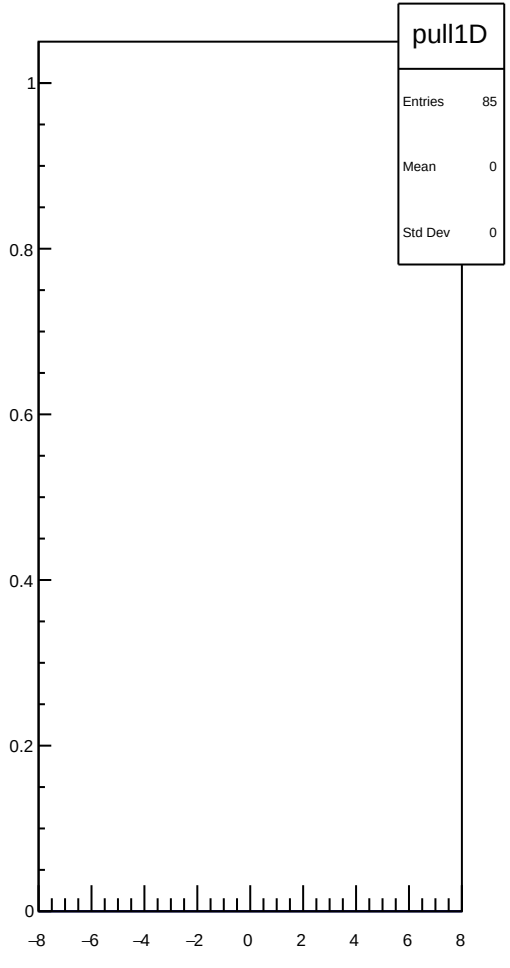

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.559e+23 / 84
p0 −7.725e−05 ± 1.085e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
80
60
40
20
0
−20
pull
Entries 85
Mean 1.351e+09
Std Dev 1.351e+09

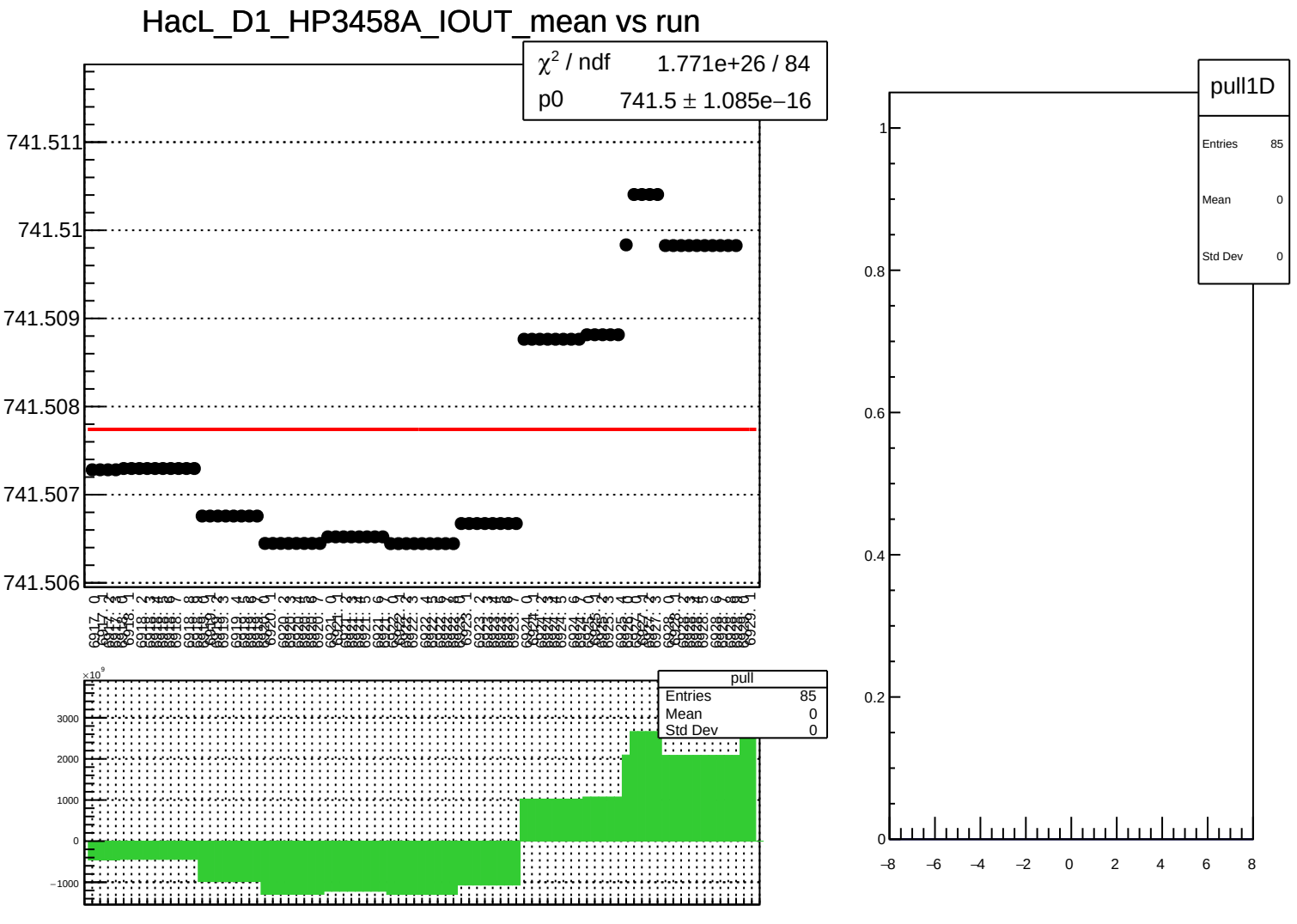

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

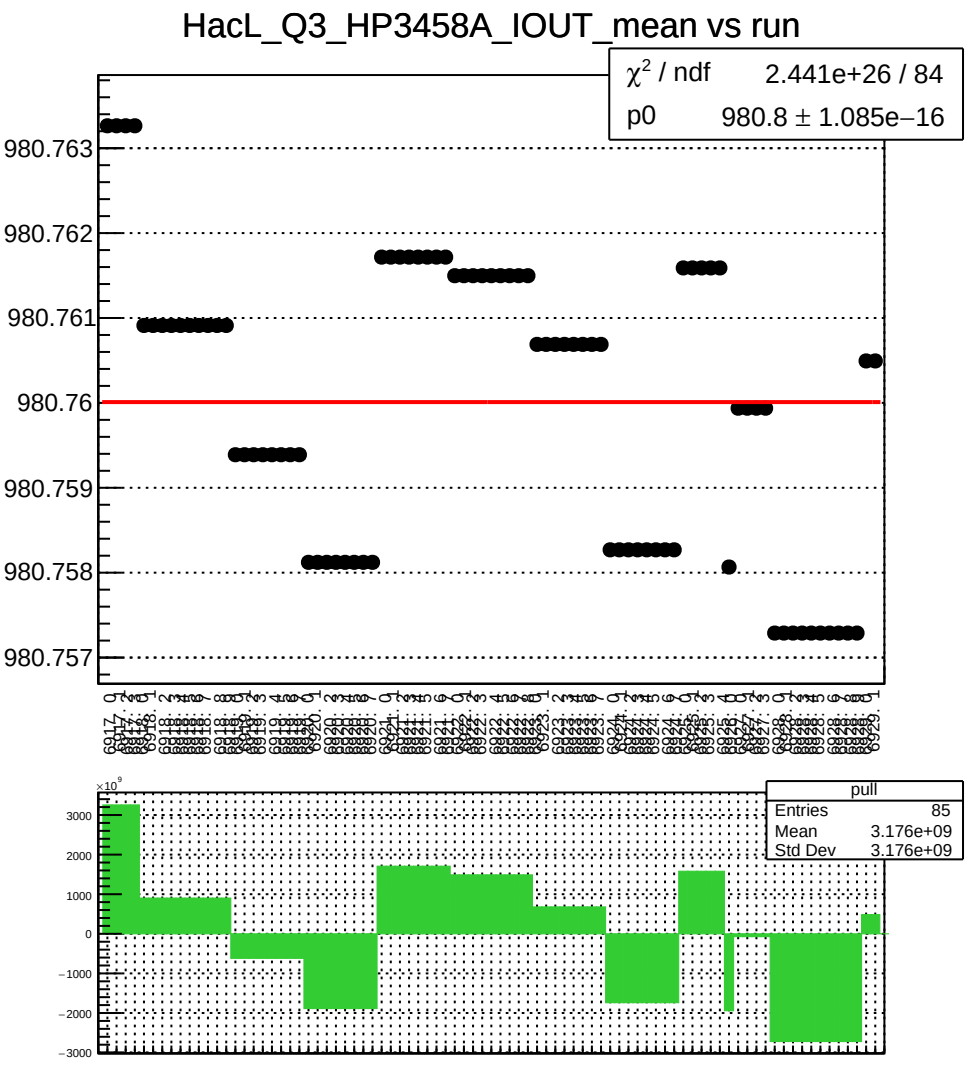

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54

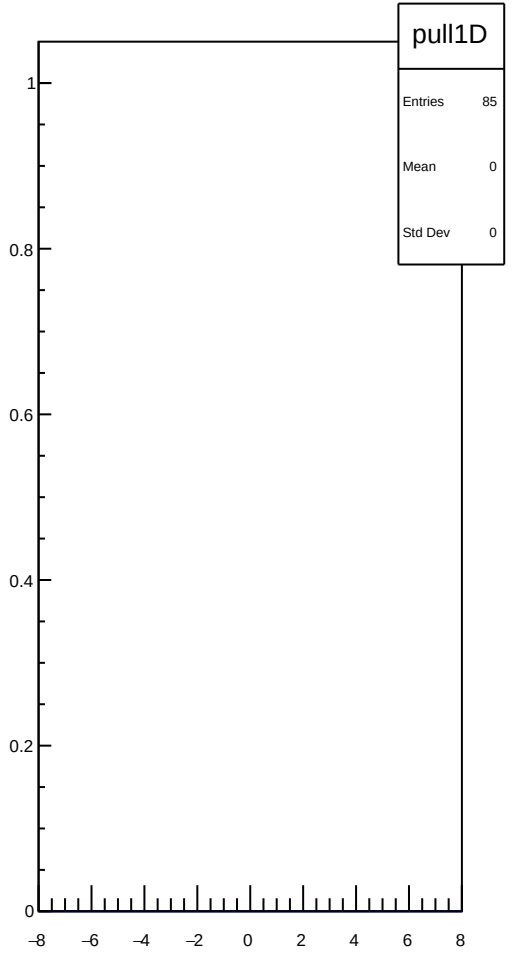

pull1D
Entries 85
Mean 0.02082
Std Dev 5.206e−10

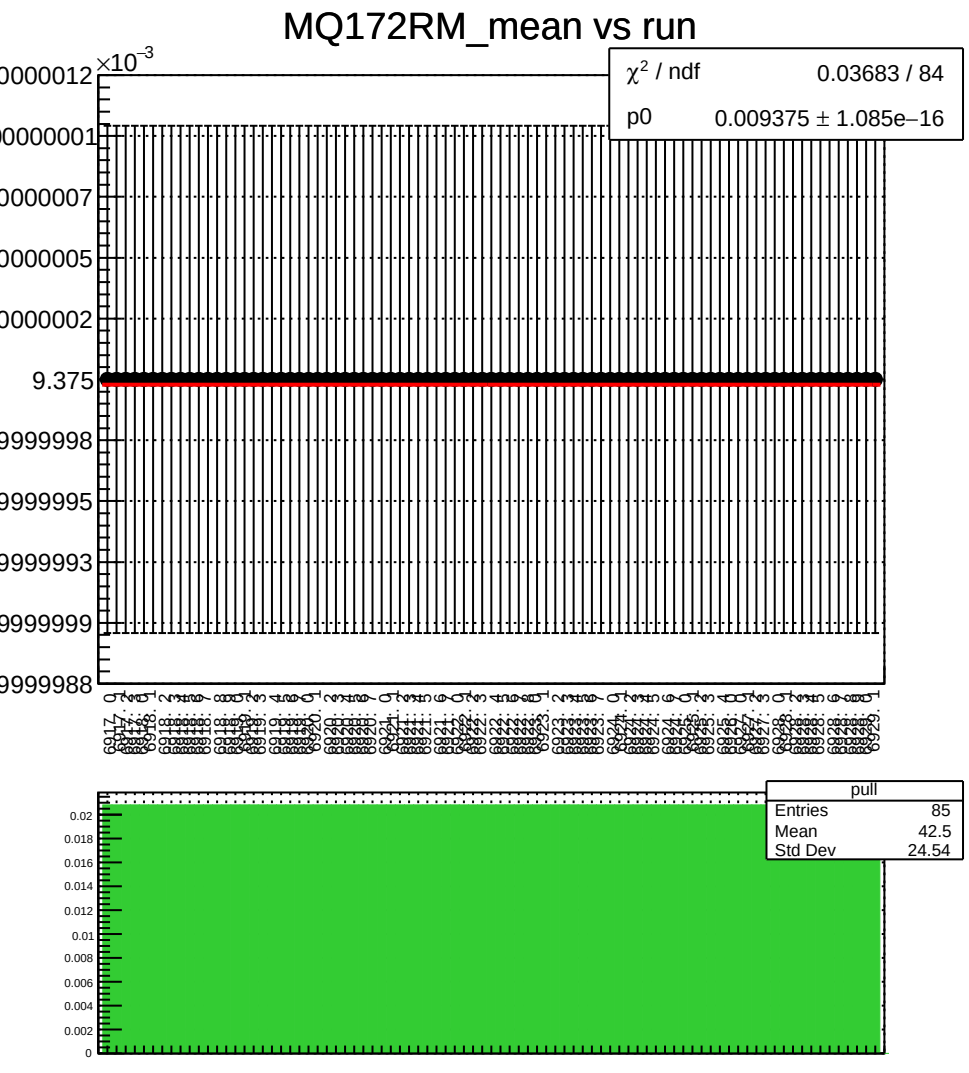

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.34e+26 / 84
p0 931.7 ± 1.085e−16
931.728
931.726
931.724
931.722
931.72
931.718
931.716
931.714
×10⁹
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 85
Mean −1.744e+09
Std Dev 1.744e+09

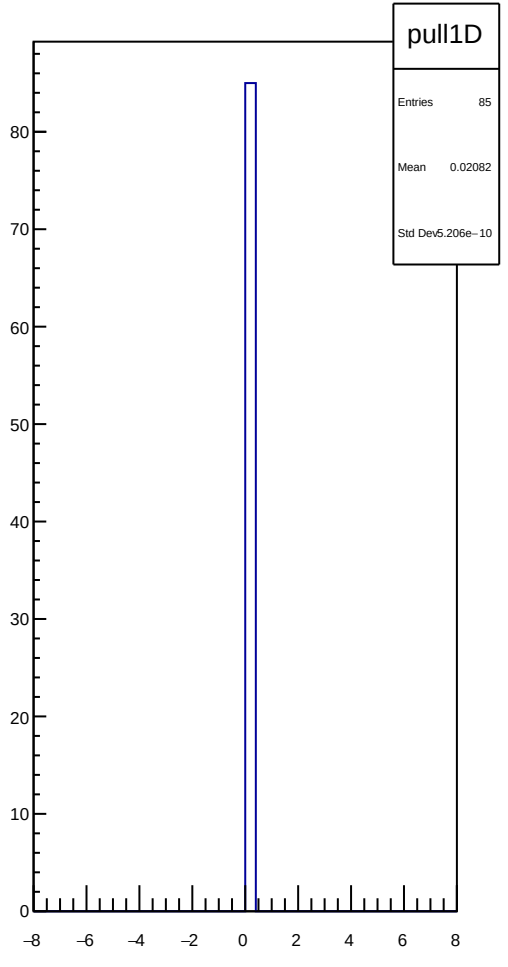

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

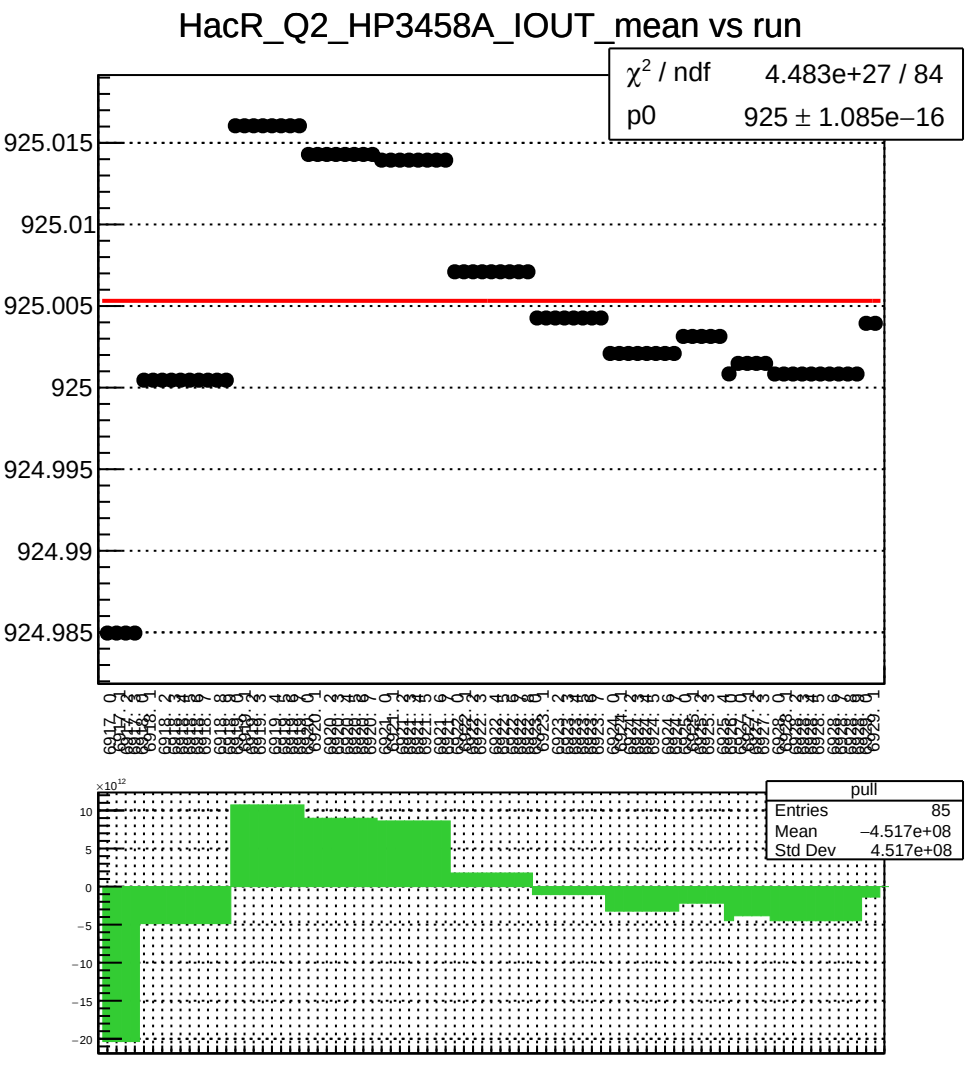

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.771e+26 / 84
p0 741.5 ± 1.085e−16
741.511
741.51
741.509
741.508
741.507
741.506
pull
Entries 85
Mean 0
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

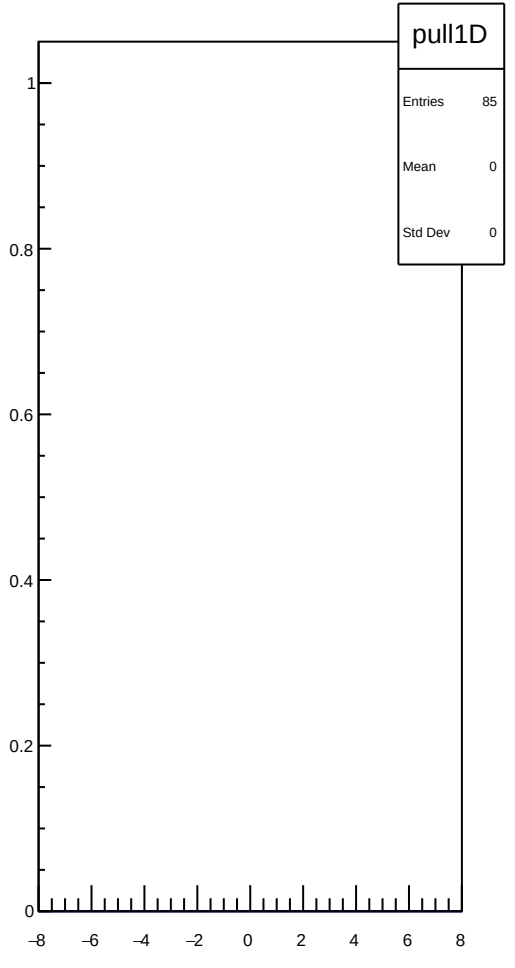

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.441e+26 / 84
p0 980.8 ± 1.085e−16
980.763
980.762
980.761
980.76
980.759
980.758
980.757
pull
Entries 85
Mean 3.176e+09
Std Dev 3.176e+09
×10⁹
3000
2000
1000
0
−1000
−2000
−3000

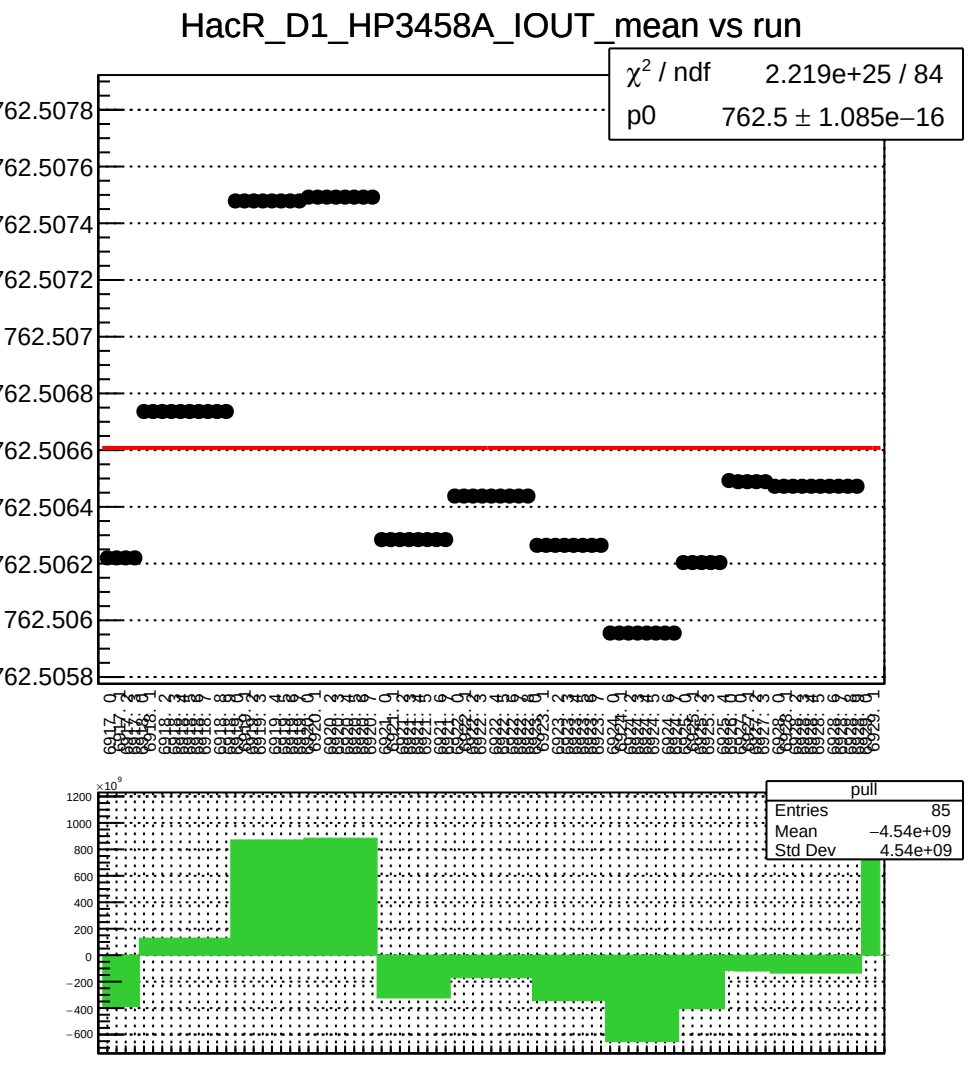

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

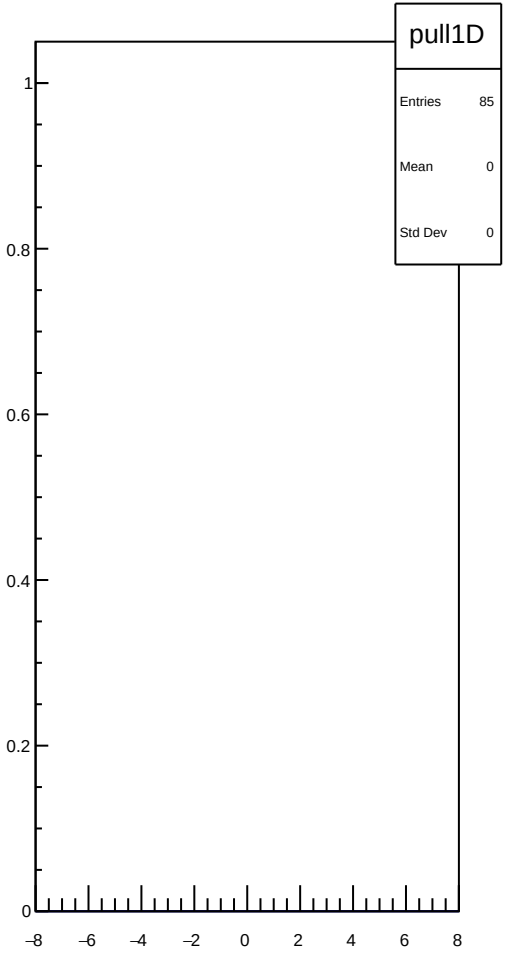

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
9.375
pull
Entries 85
Mean 42.5
Std Dev 24.54

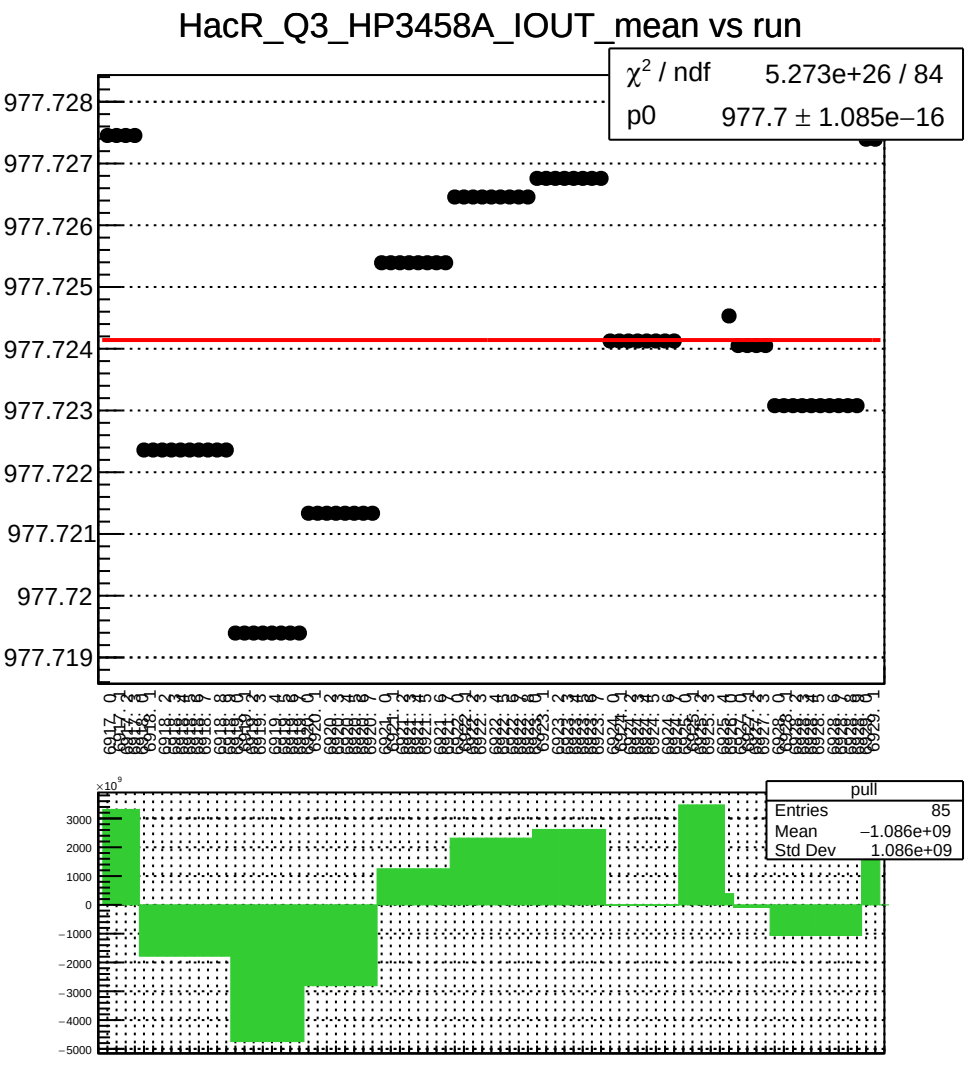

pull1D
Entries 85
Mean 0.02082
Std Dev 5.206e−10

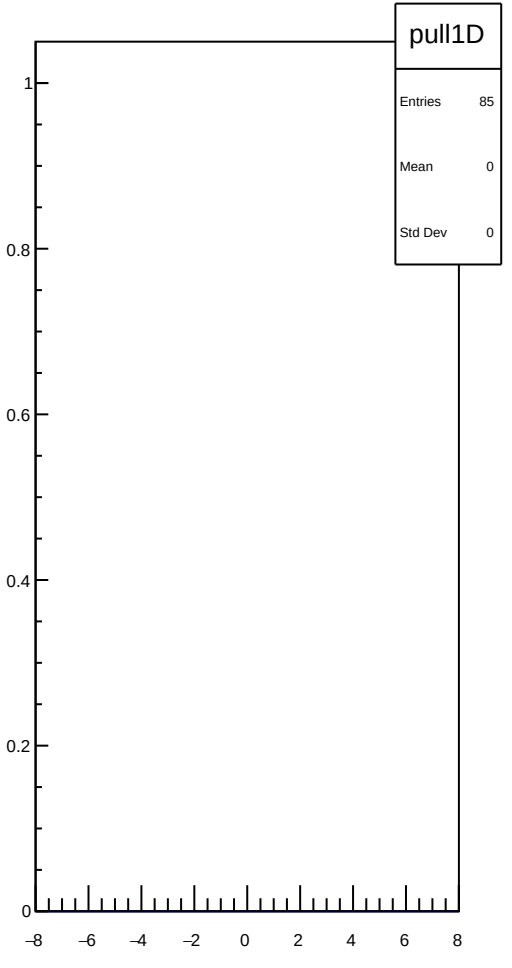

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.483e+27 / 84
p0 925 ± 1.085e−16
925.015
925.01
925.005
925
924.995
924.99
924.985
pull
Entries 85
Mean −4.517e+08
Std Dev 4.517e+08
×10¹²
10
5
0
−5
−10
−15
−20

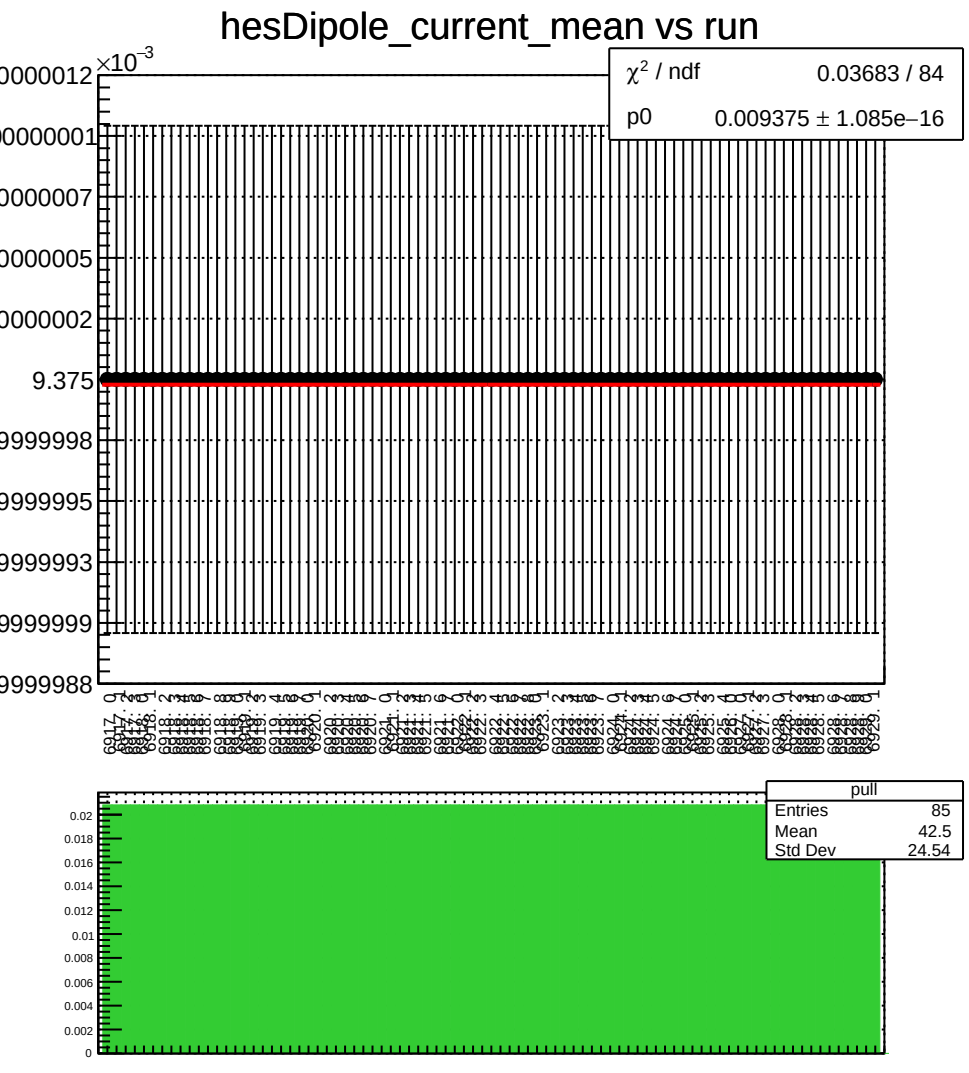

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

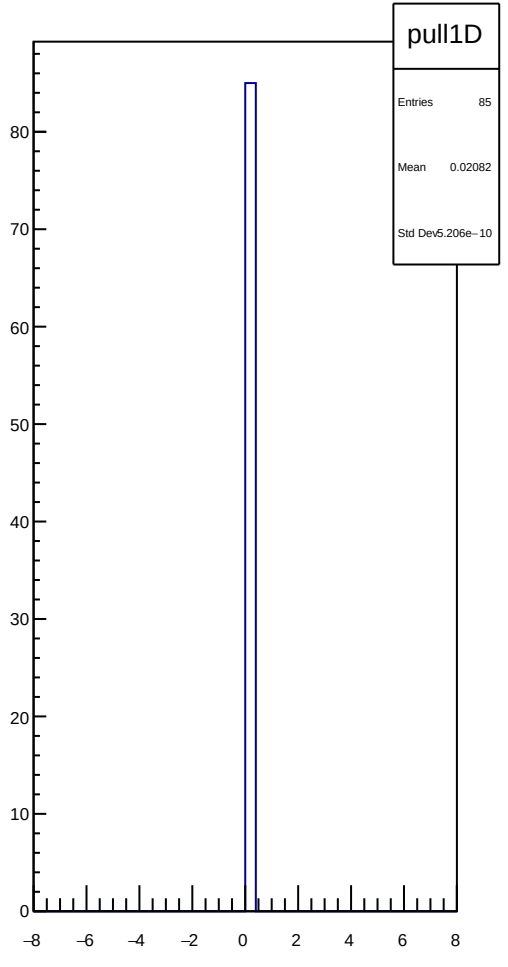

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.219e+25 / 84
p0 762.5 ± 1.085e−16
762.5078
762.5076
762.5074
762.5072
762.507
762.5068
762.5066
762.5064
762.5062
762.506
762.5058
pull
Entries 85
Mean −4.54e+09
Std Dev 4.54e+09
×10⁹
1200
1000
800
600
400
200
0
−200
−400
−600

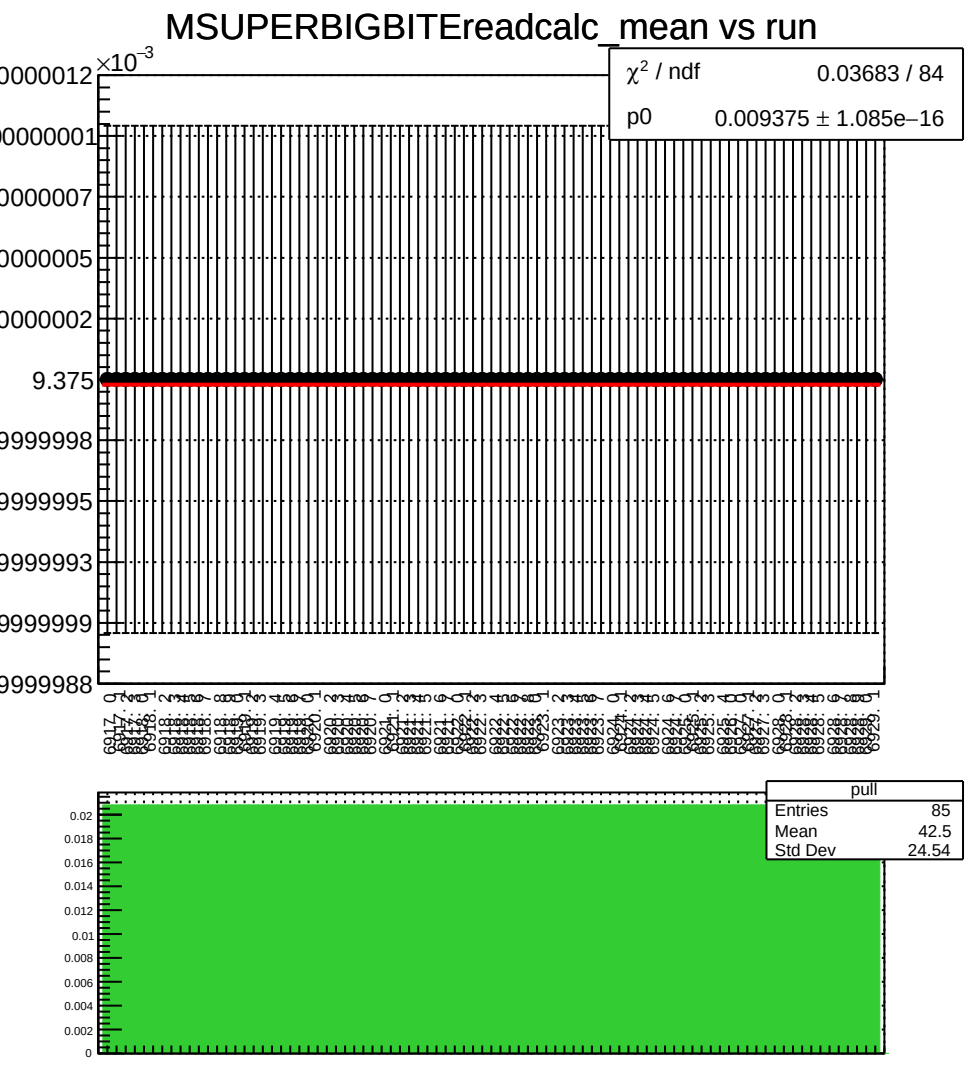

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

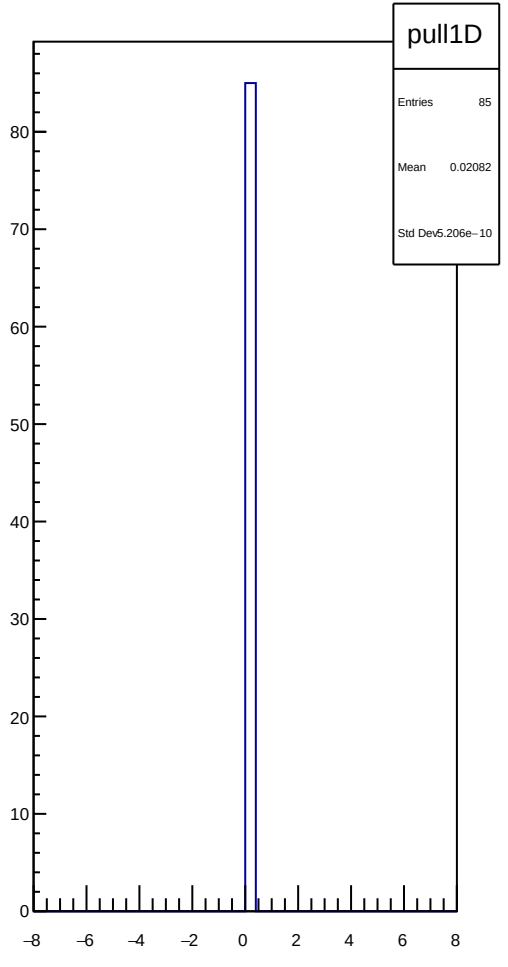

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.273e+26 / 84
p0 977.7 ± 1.085e−16
977.728
977.727
977.726
977.725
977.724
977.723
977.722
977.721
977.72
977.719
pull
Entries 85
Mean −1.086e+09
Std Dev 1.086e+09
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

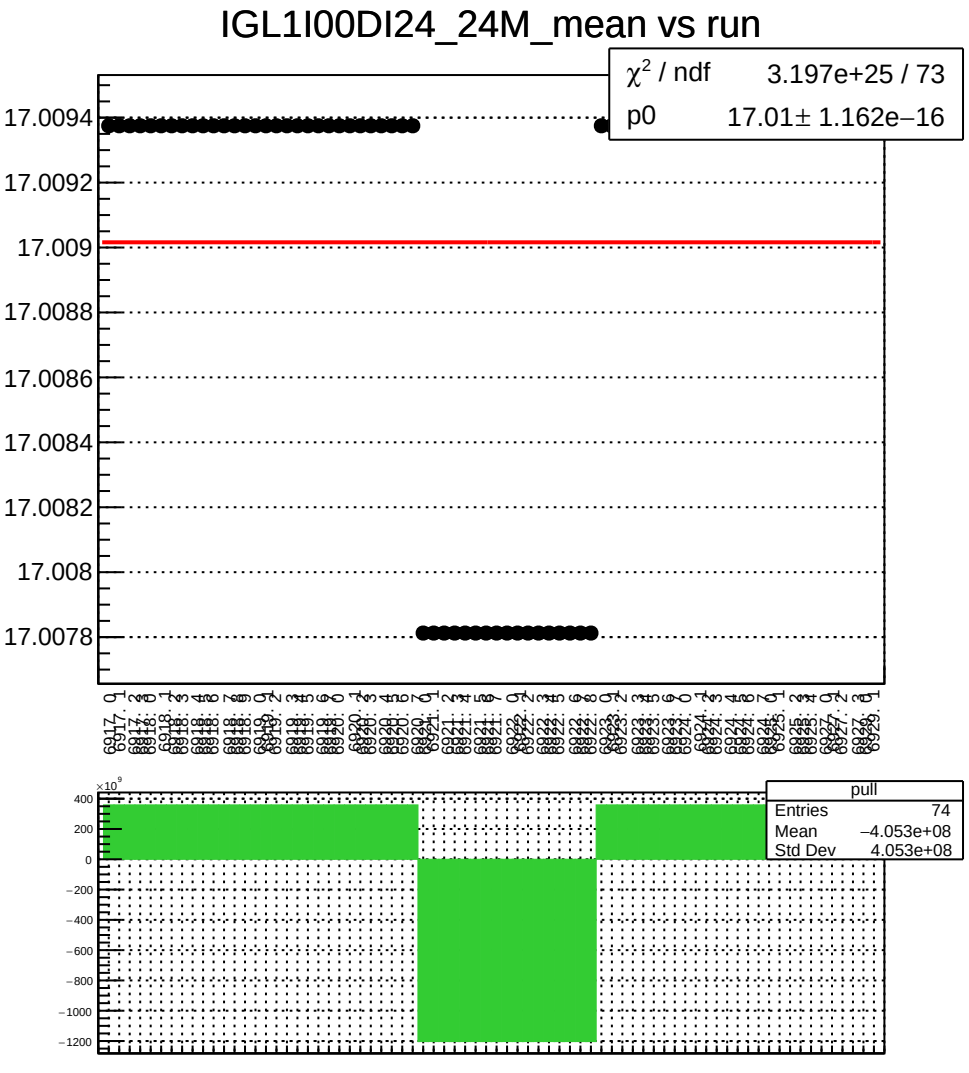

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

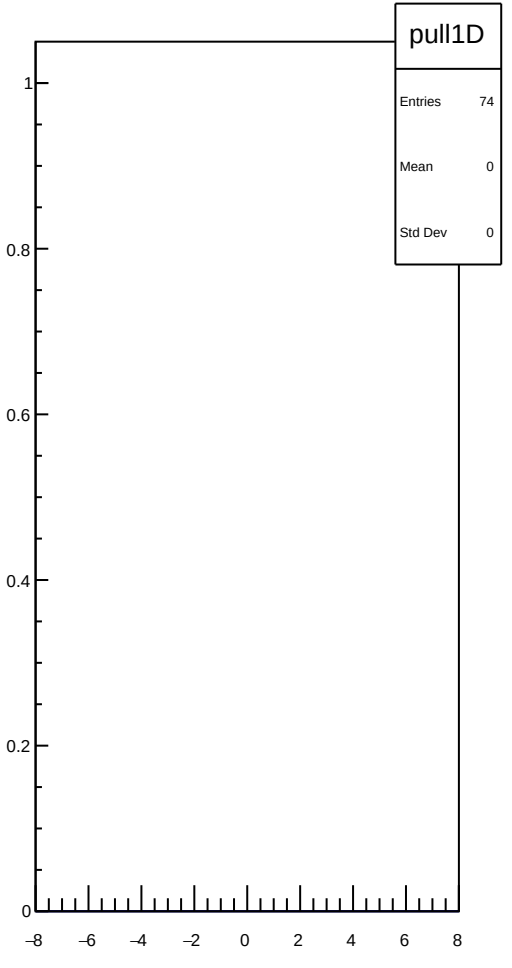

hesDipole_current_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54

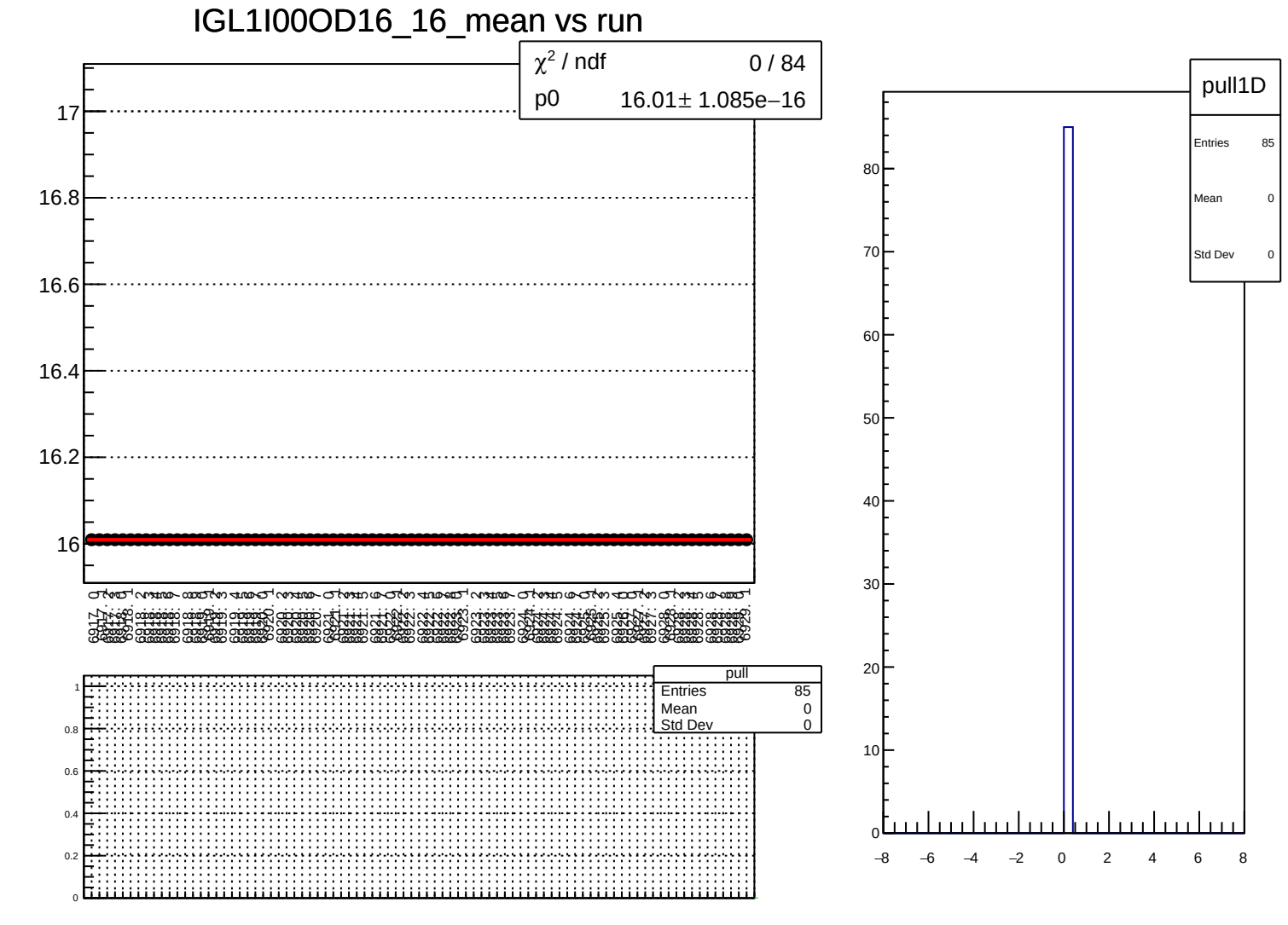

pull1D
Entries 85
Mean 0.02082
Std Dev 5.206e−10

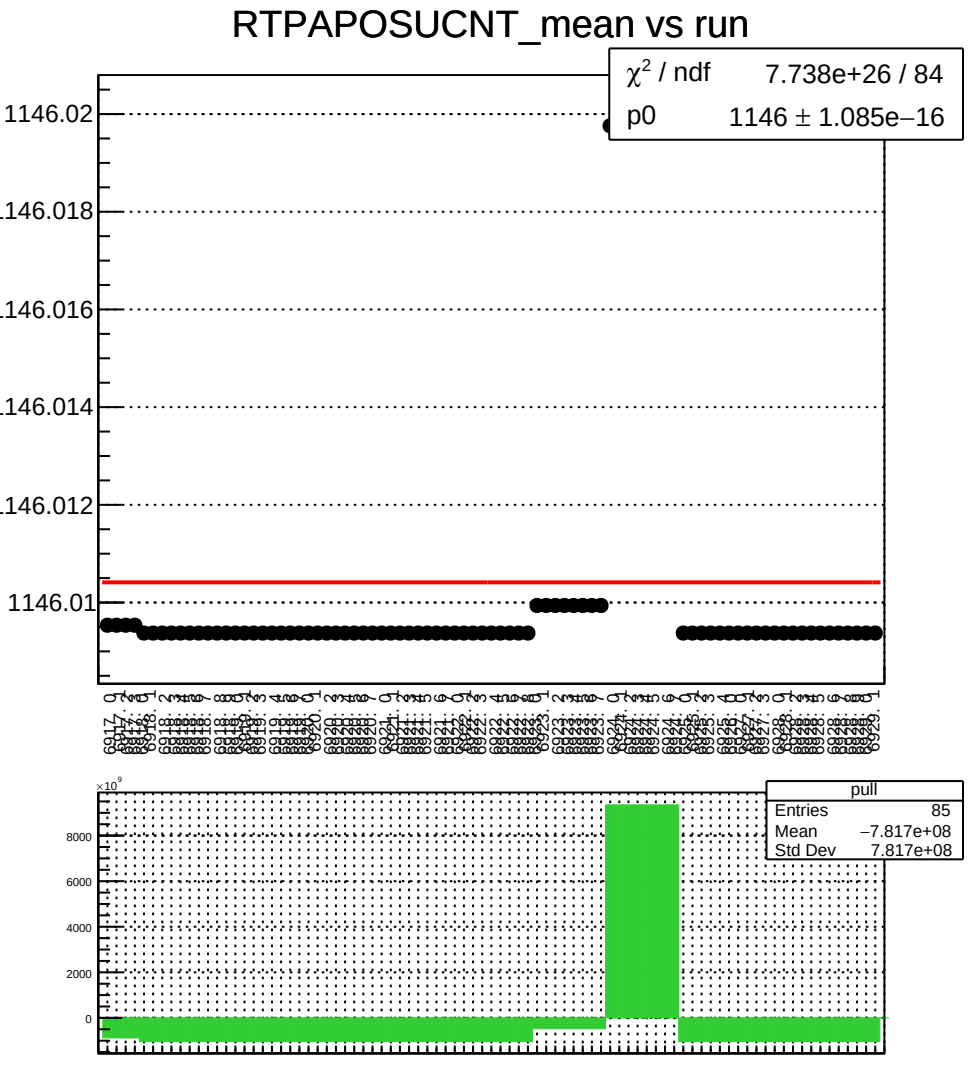

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54

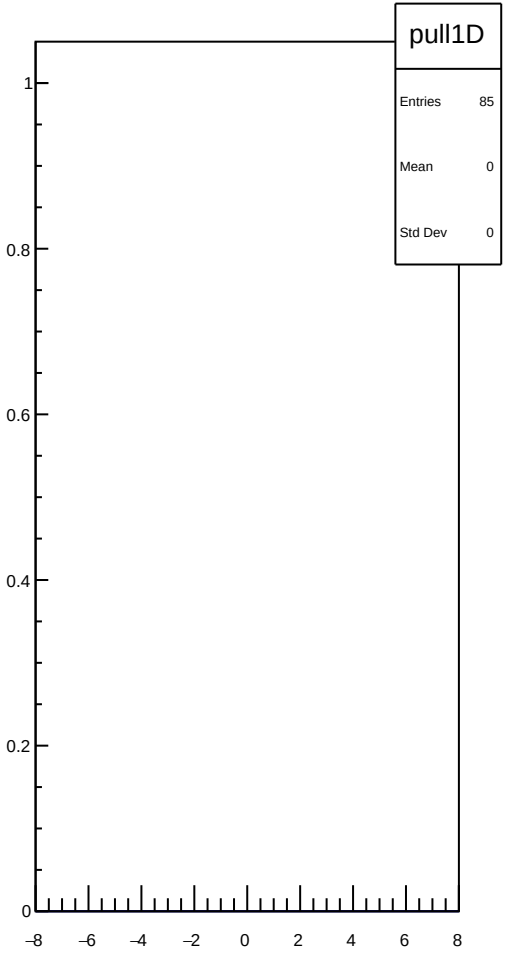

pull1D
Entries 85
Mean 0.02082
Std Dev 5.206e−10

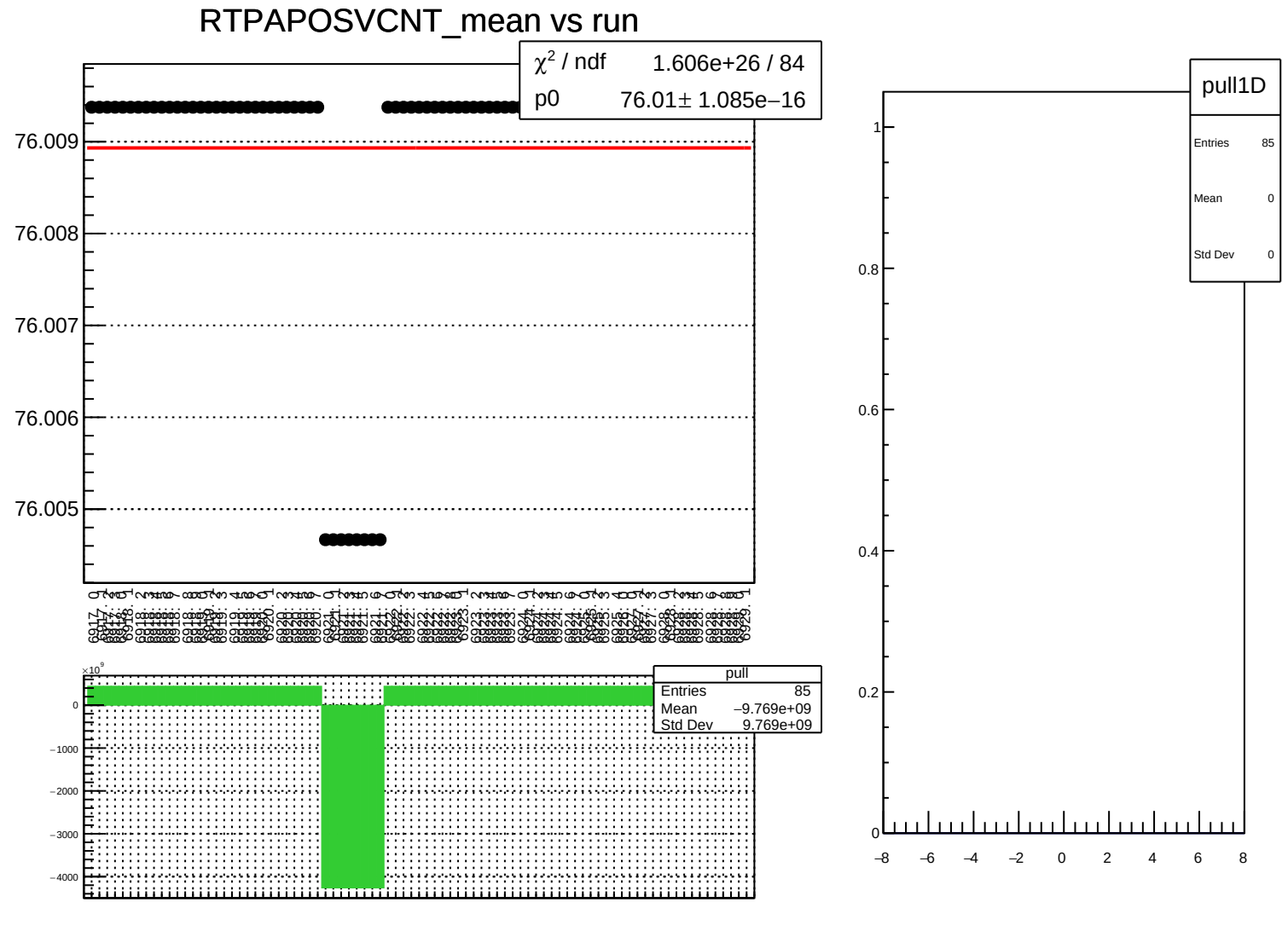

IGL1I00DI24_24M_mean vs run
χ² / ndf 3.197e+25 / 73
p0 17.01± 1.162e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
×10⁹
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 74
Mean −4.053e+08
Std Dev 4.053e+08


pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 0 / 84
p0 16.01± 1.085e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 85
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 7.738e+26 / 84
p0 1146 ± 1.085e−16
1146.02
1146.018
1146.016
1146.014
1146.012
1146.01
pull
Entries 85
Mean −7.817e+08
Std Dev 7.817e+08
×10⁹
8000
6000
4000
2000
0


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


RTPAPOSVCNT_mean vs run
χ² / ndf 1.606e+26 / 84
p0 76.01± 1.085e−16
76.009
76.008
76.007
76.006
76.005
pull
Entries 85
Mean −9.769e+09
Std Dev 9.769e+09
×10⁹
0
−1000
−2000
−3000
−4000
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8