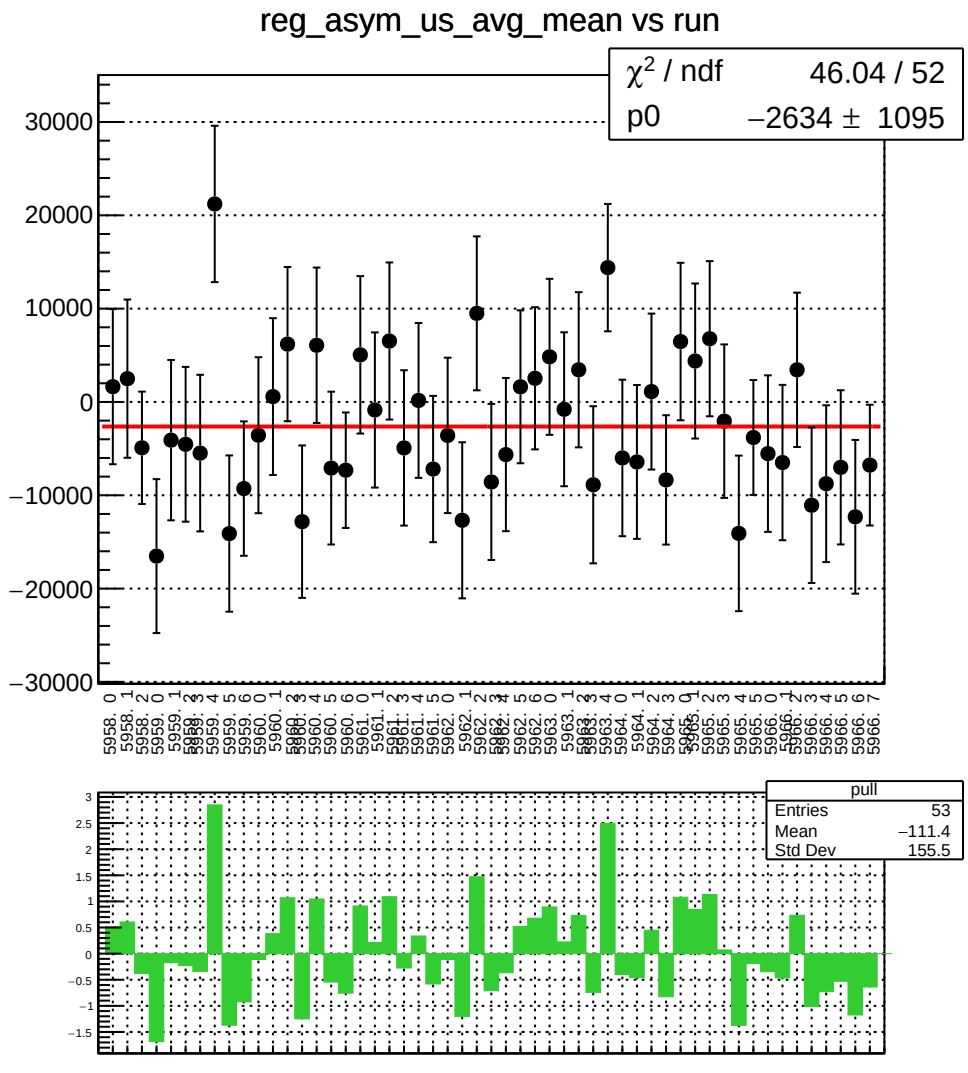
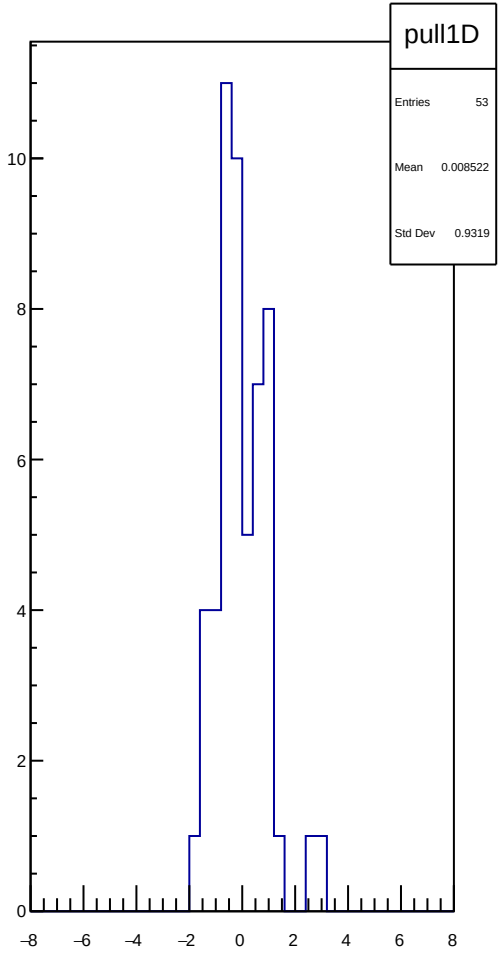
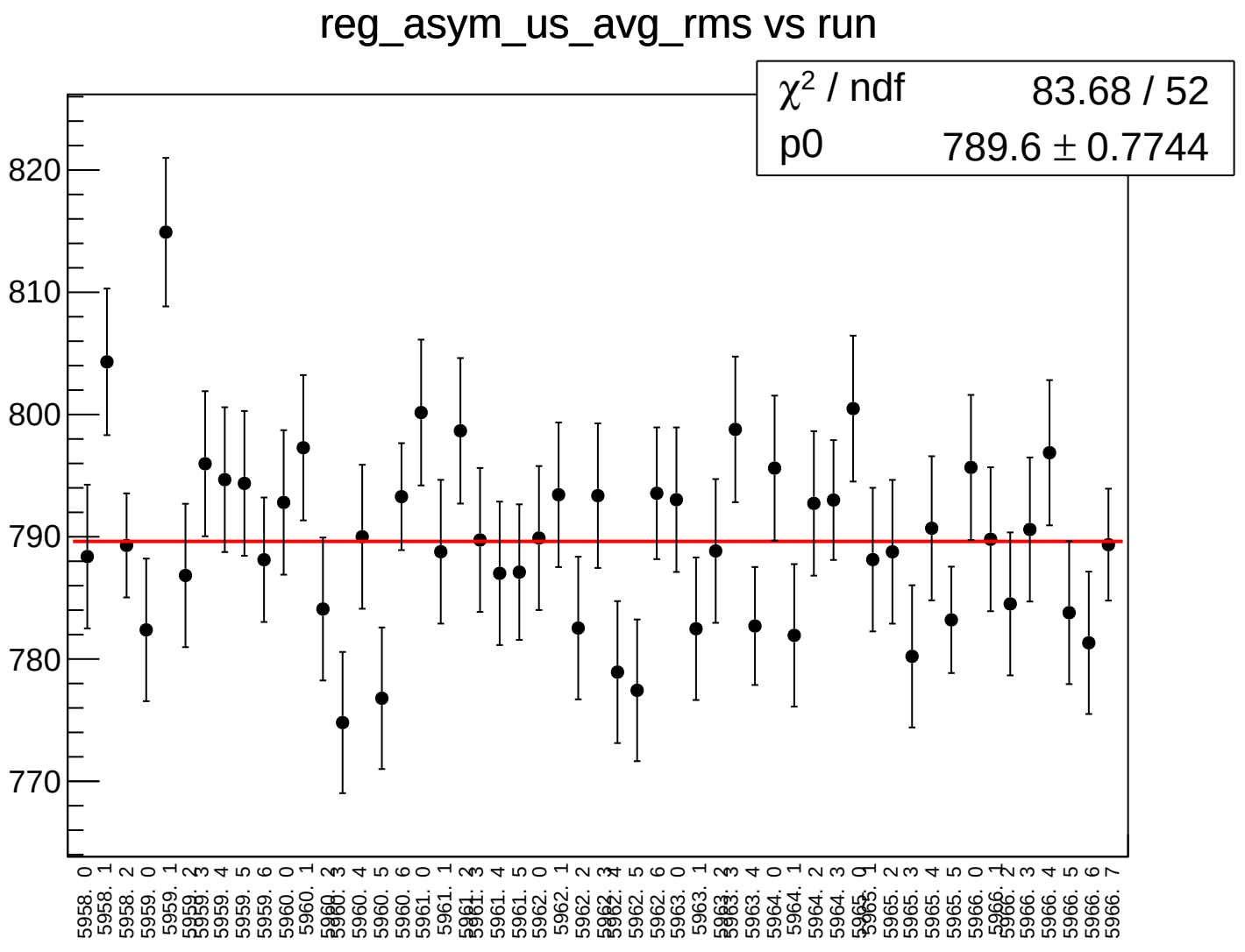
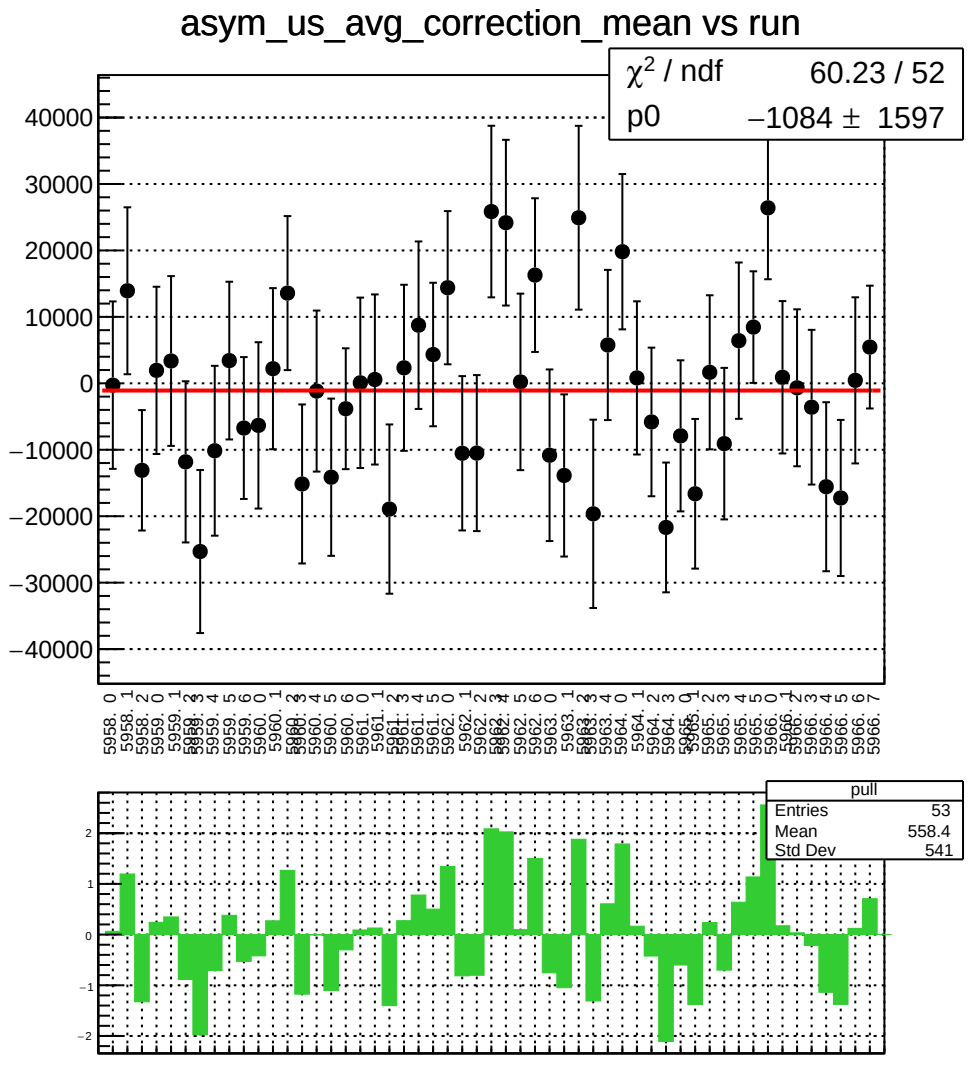
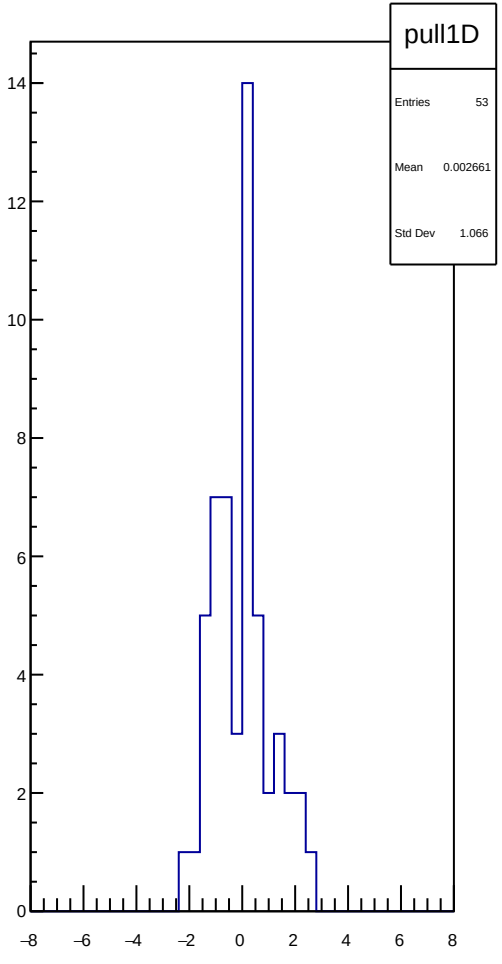
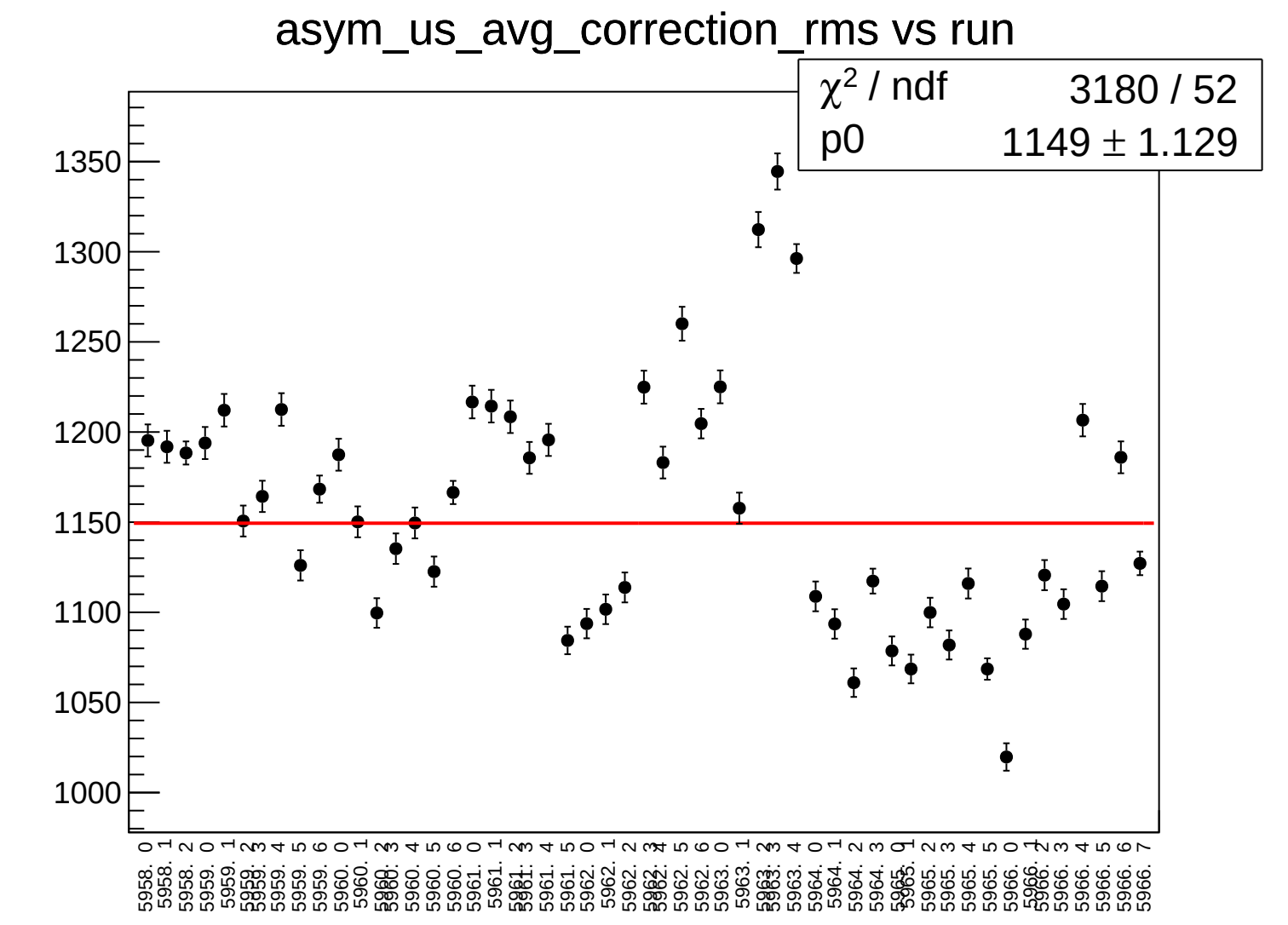

reg_asym_us_avg_mean vs run
χ² / ndf 46.04 / 52
p0 −2634 ± 1095
pull
Entries 53
Mean −111.4
Std Dev 155.5

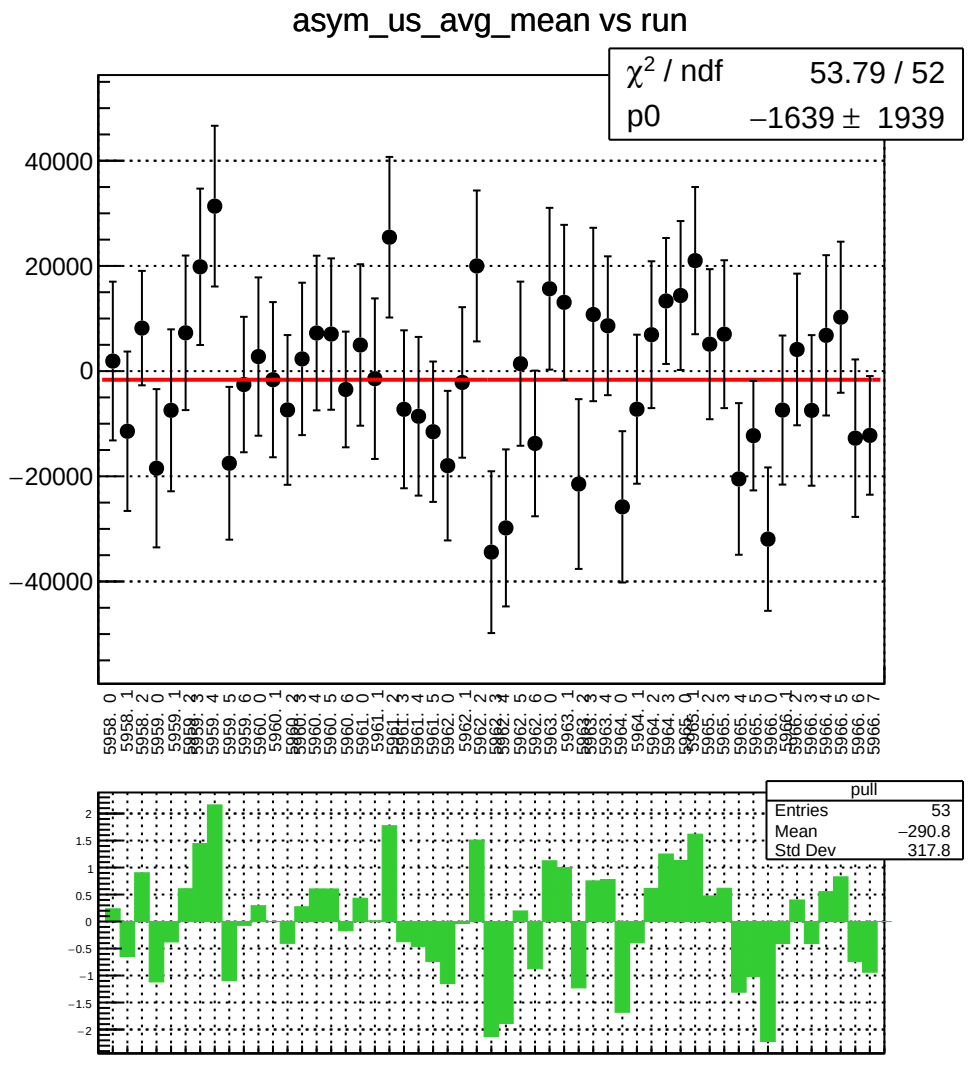

pull1D
Entries 53
Mean 0.008522
Std Dev 0.9319

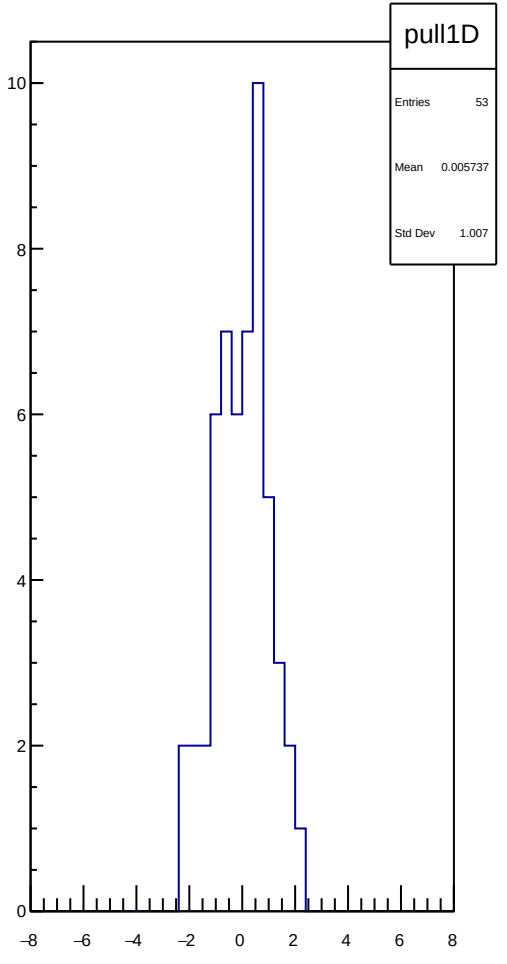

reg_asym_us_avg_rms vs run
χ² / ndf 83.68 / 52
p0 789.6 ± 0.7744
820
810
800
790
780
770

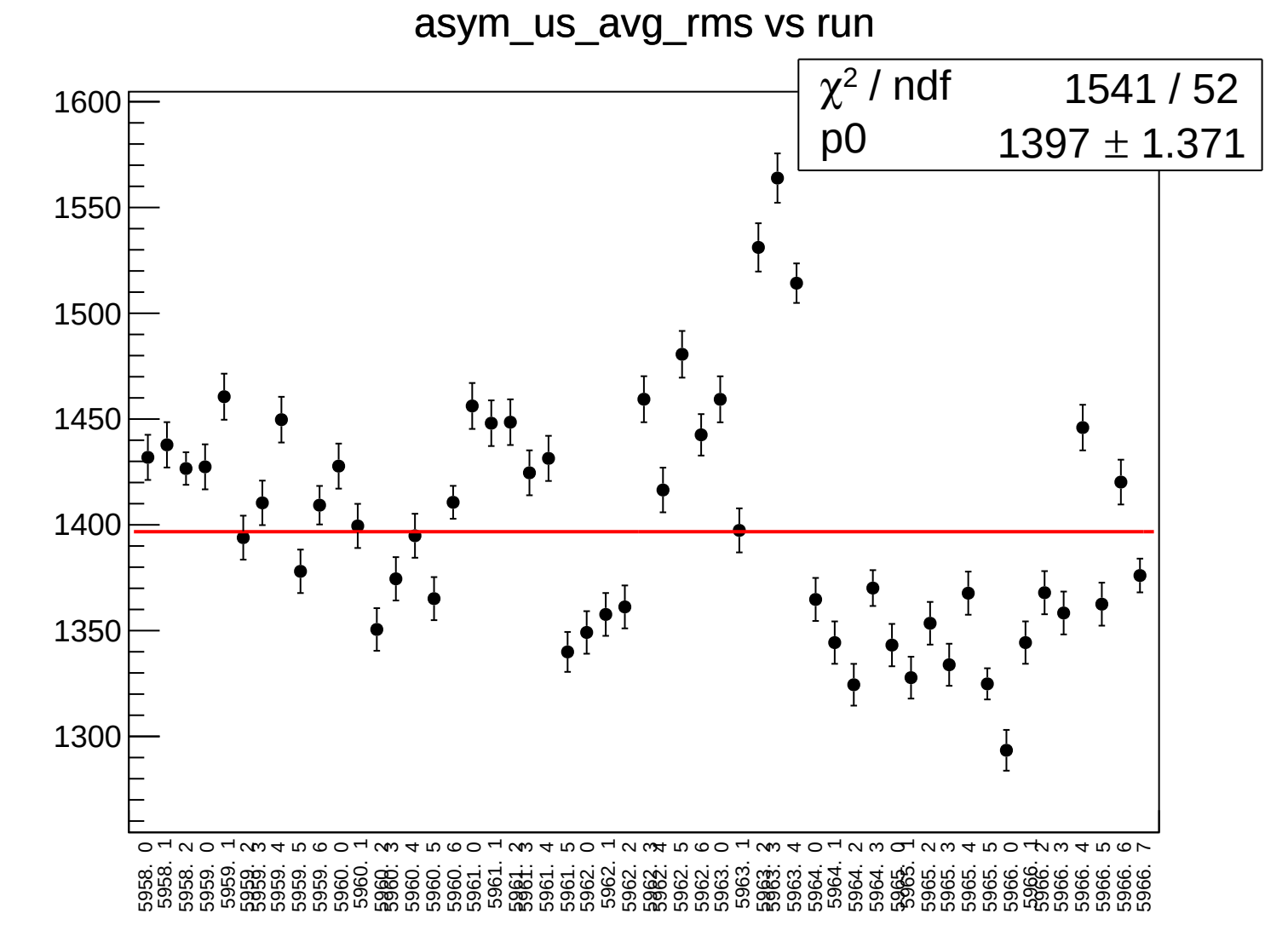

asym_us_avg_correction_mean vs run
χ² / ndf 60.23 / 52
p0 −1084 ± 1597
pull
Entries 53
Mean 558.4
Std Dev 541

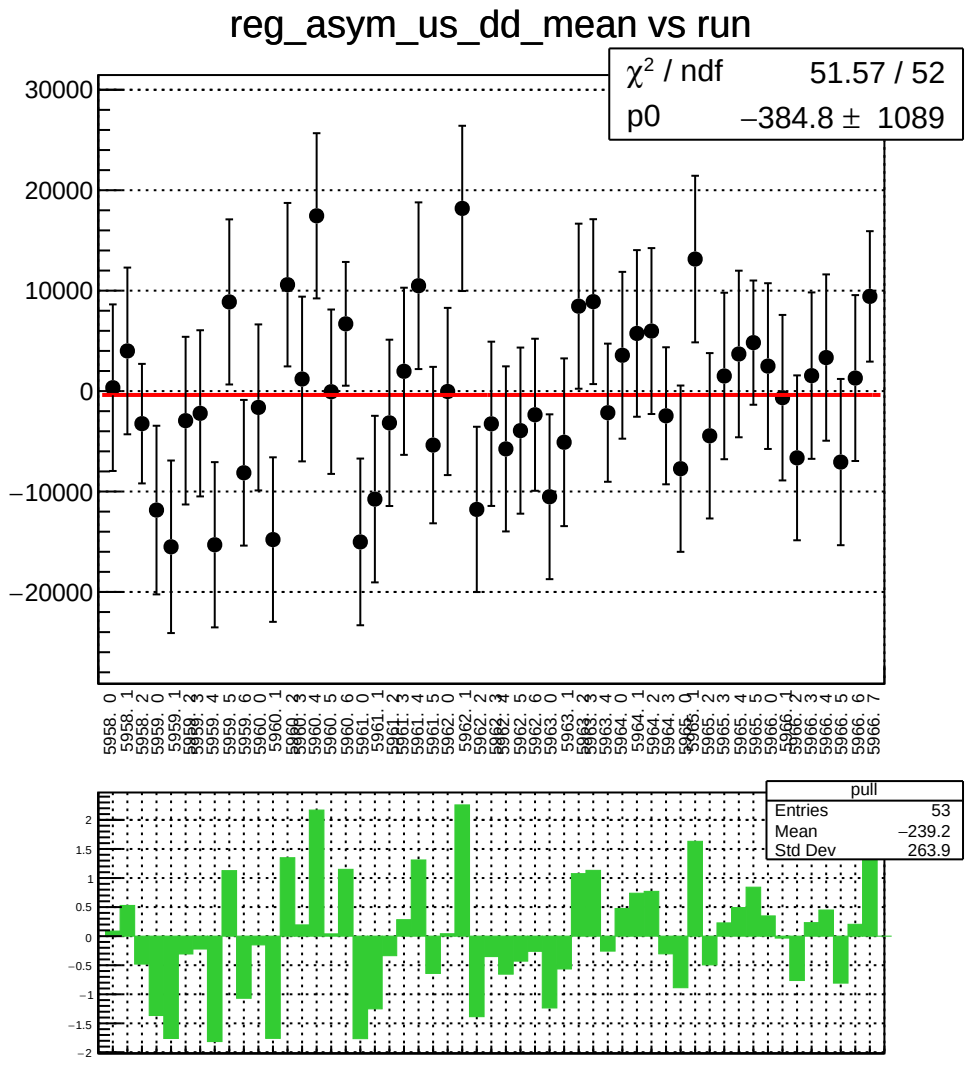

pull1D
Entries 53
Mean 0.002661
Std Dev 1.066

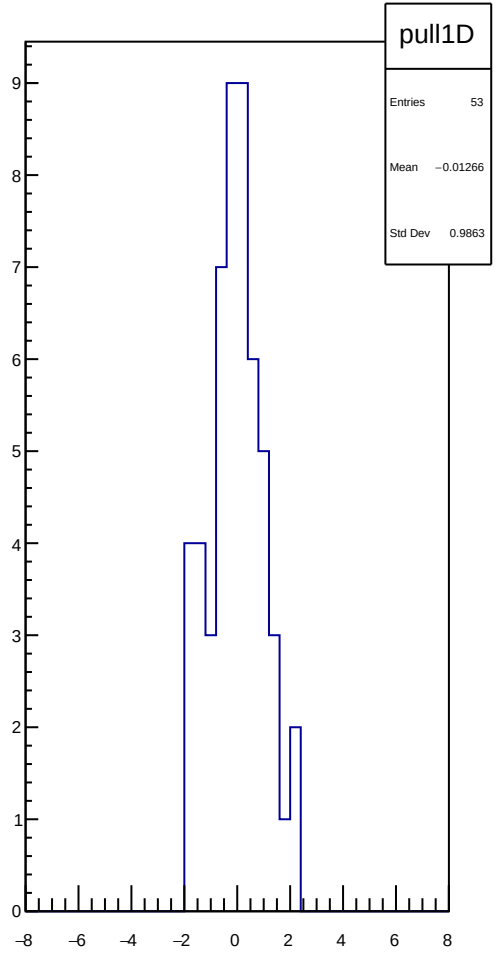

asym_us_avg_correction_rms vs run
χ² / ndf 3180 / 52
p0 1149 ± 1.129
1350
1300
1250
1200
1150
1100
1050
1000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

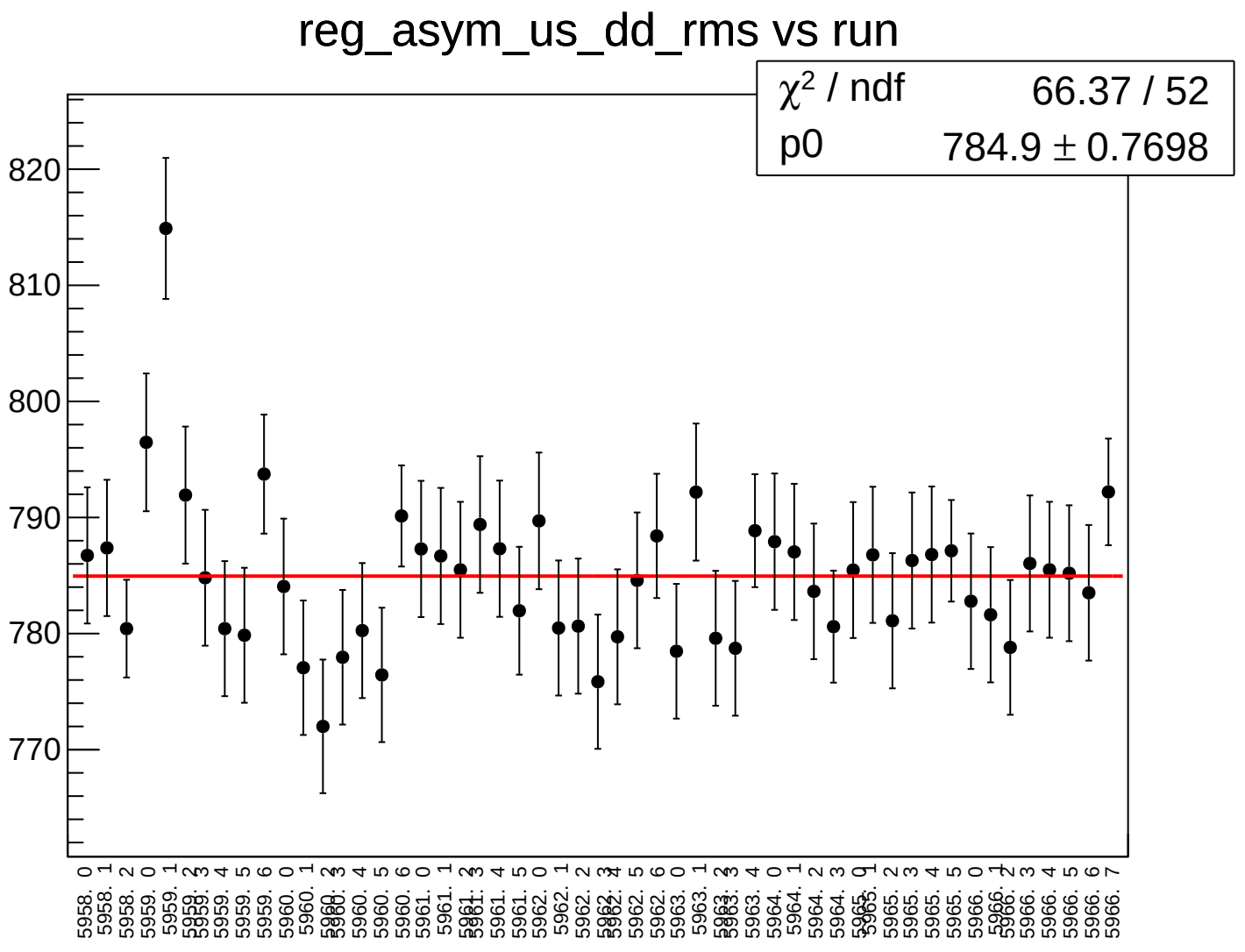

asym_us_avg_mean vs run
χ² / ndf 53.79 / 52
p0 −1639 ± 1939
40000
20000
0
−20000
−40000
pull
Entries 53
Mean −290.8
Std Dev 317.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

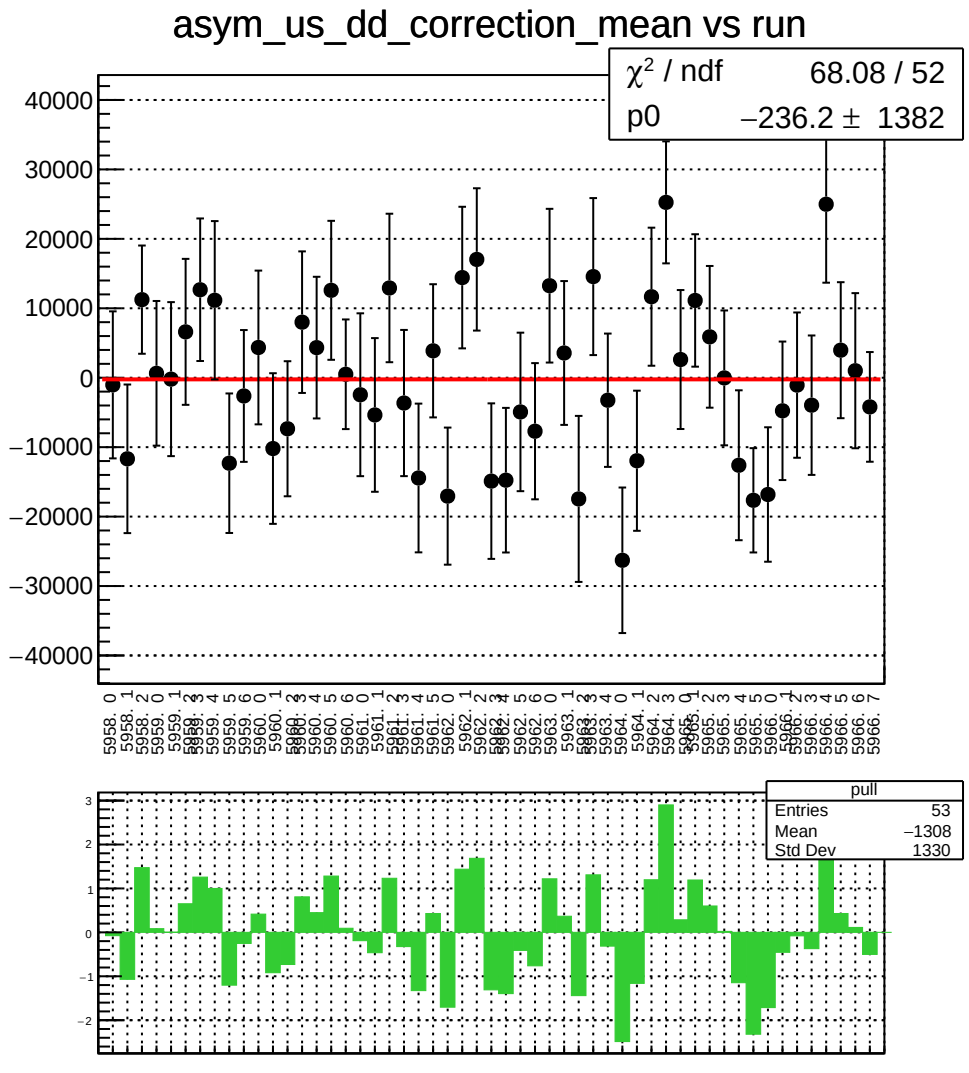

pull1D
Entries 53
Mean 0.005737
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

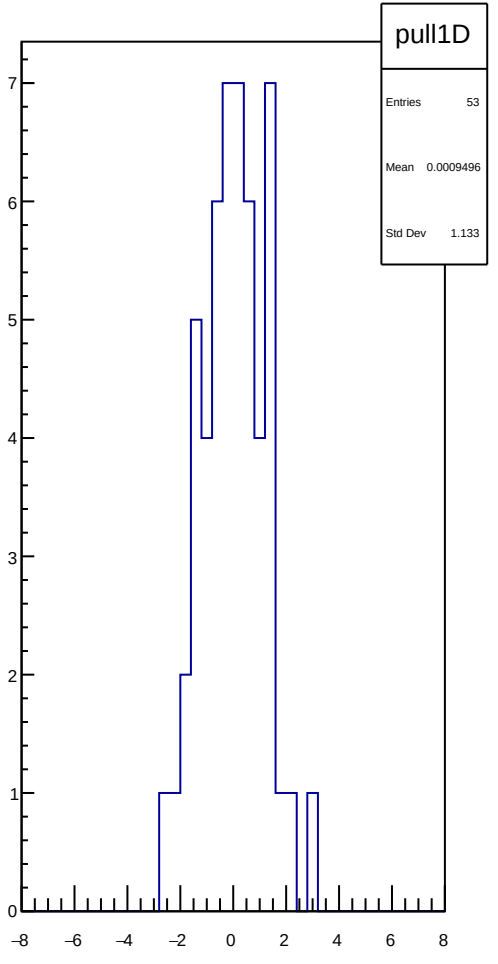

asym_us_avg_rms vs run
χ² / ndf 1541 / 52
p0 1397 ± 1.371
1600
1550
1500
1450
1400
1350
1300
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

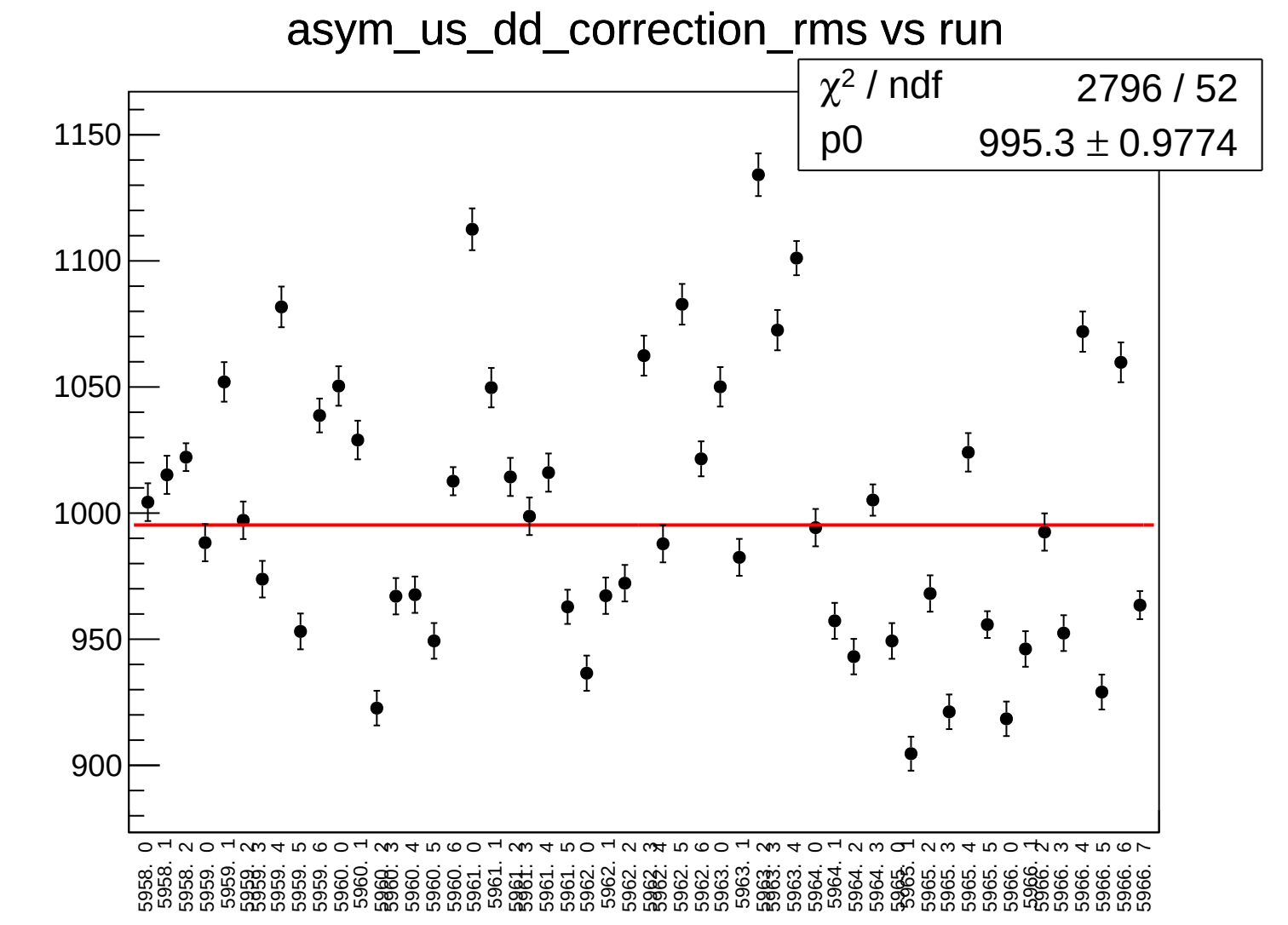

reg_asym_us_dd_mean vs run
χ² / ndf 51.57 / 52
p0 −384.8 ± 1089
pull
Entries 53
Mean −239.2
Std Dev 263.9

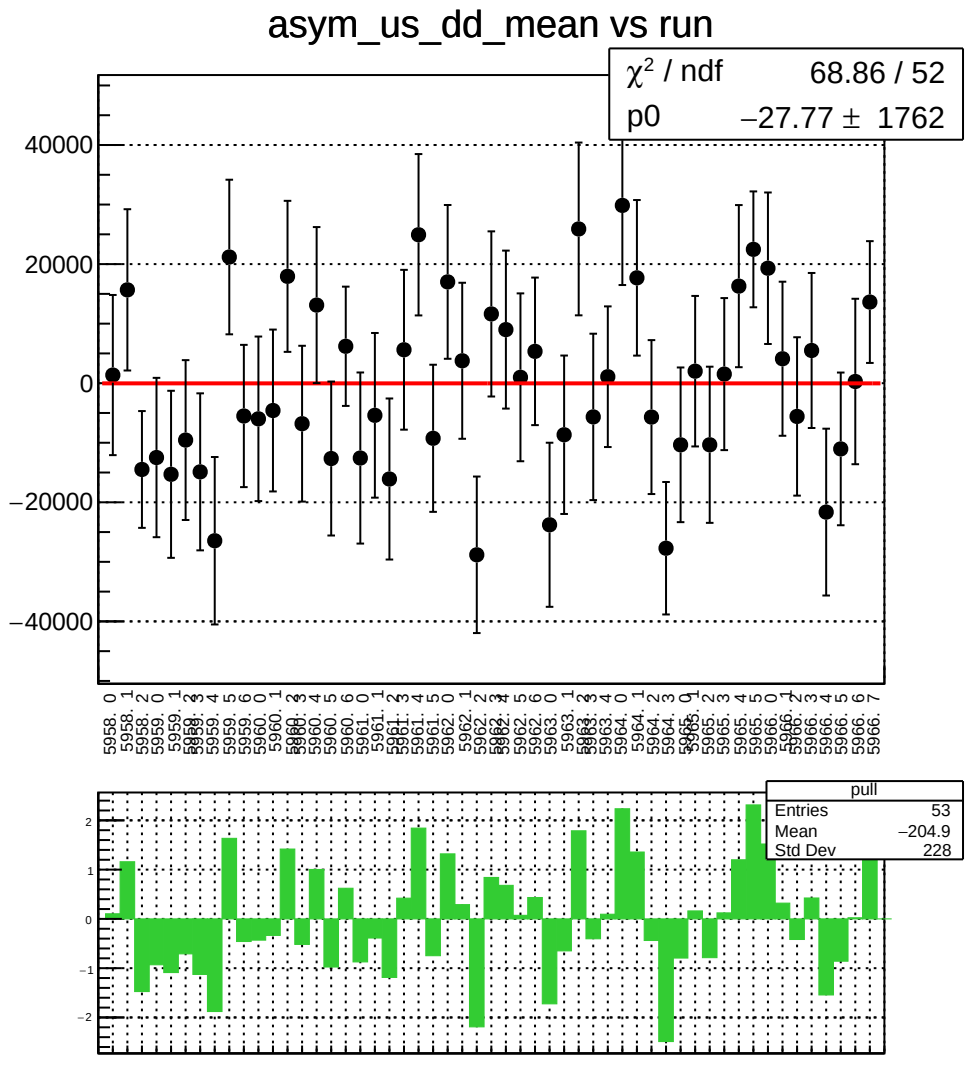

pull1D
Entries 53
Mean −0.01266
Std Dev 0.9863

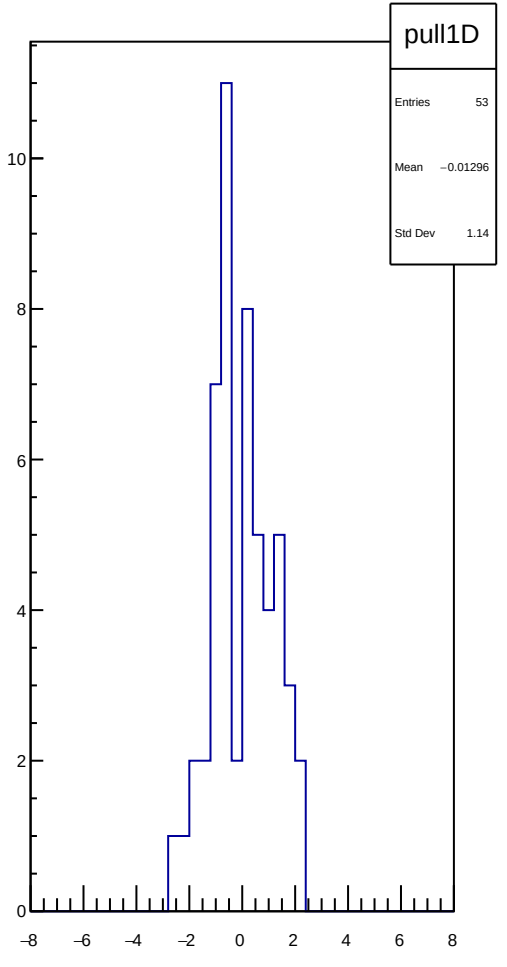

reg_asym_us_dd_rms vs run
χ² / ndf 66.37 / 52
p0 784.9 ± 0.7698
820
810
800
790
780
770

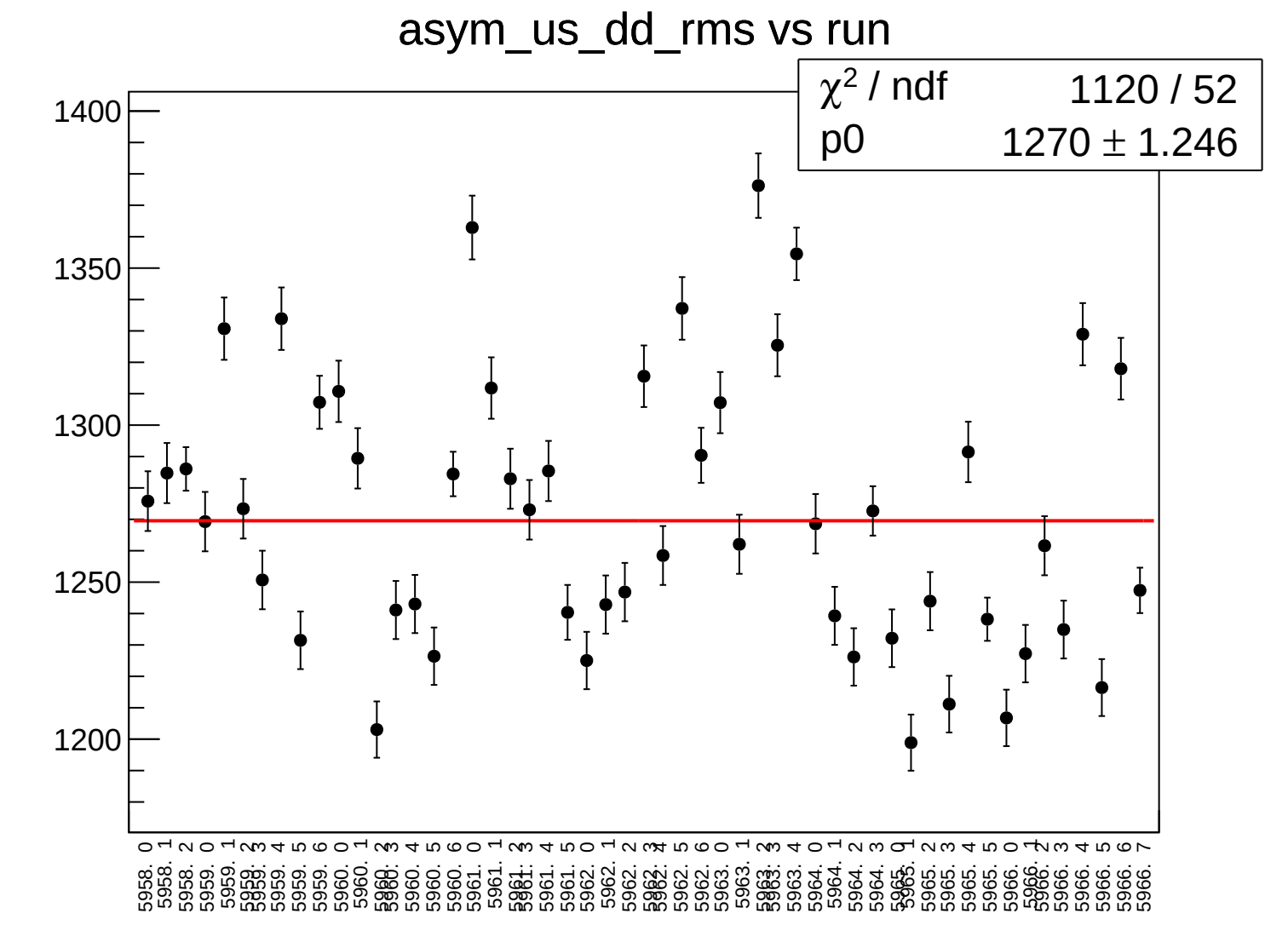

asym_us_dd_correction_mean vs run
χ² / ndf 68.08 / 52
p0 −236.2 ± 1382
pull
Entries 53
Mean −1308
Std Dev 1330

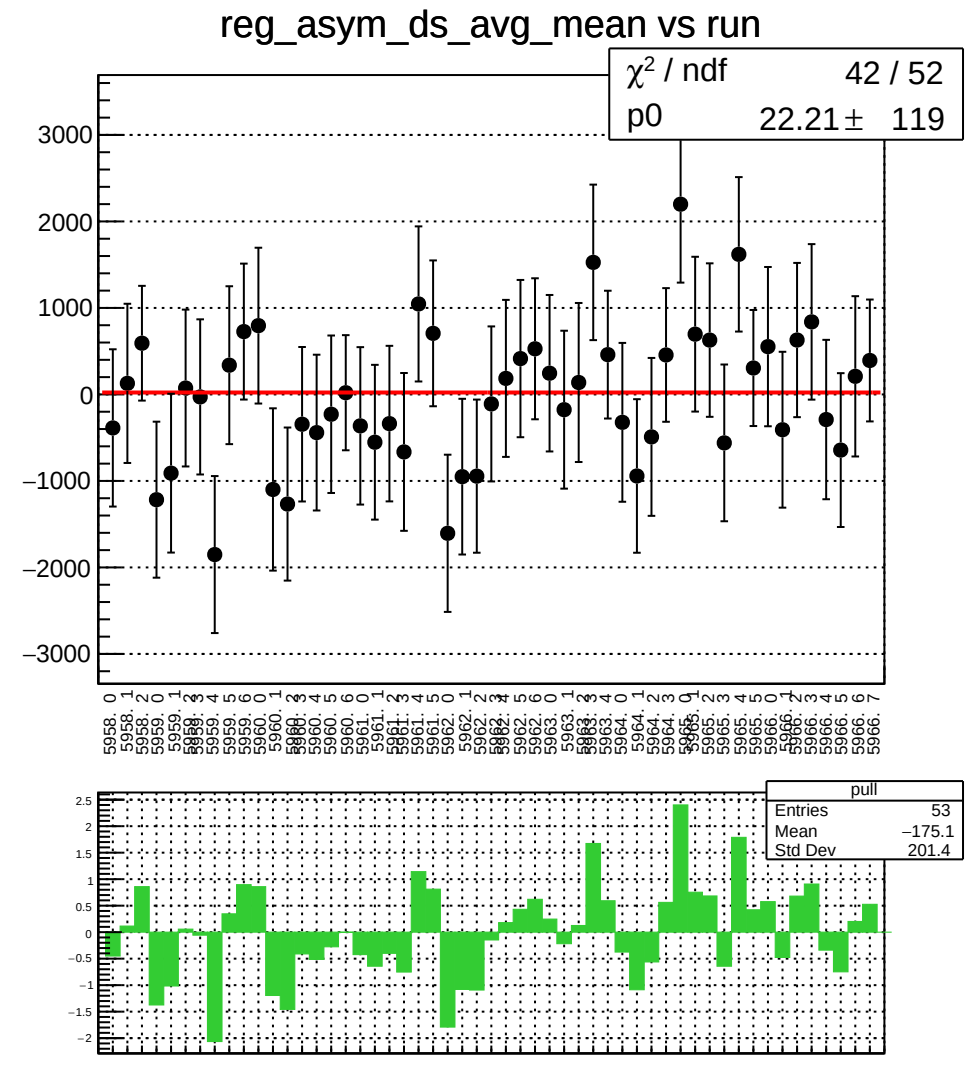

pull1D
Entries 53
Mean 0.0009496
Std Dev 1.133

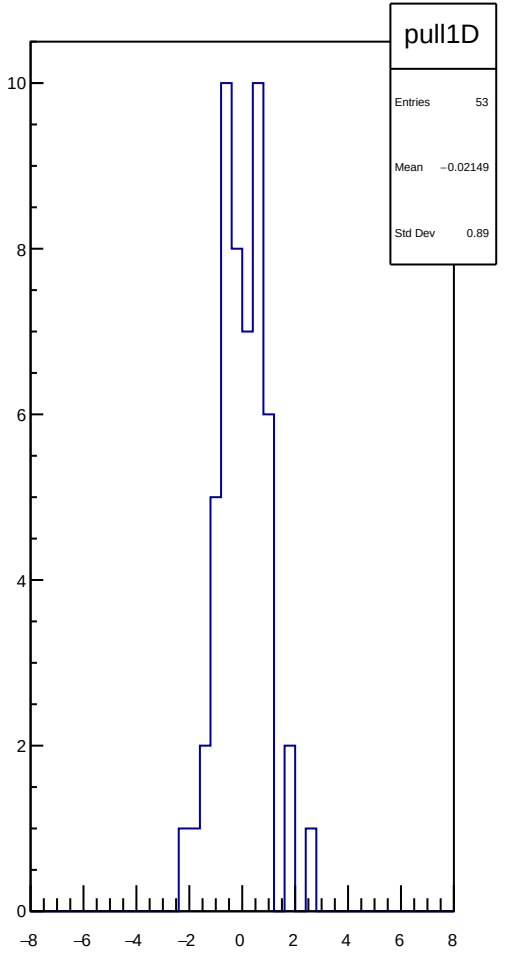

asym_us_dd_correction_rms vs run
χ² / ndf 2796 / 52
p0 995.3 ± 0.9774
1150
1100
1050
1000
950
900

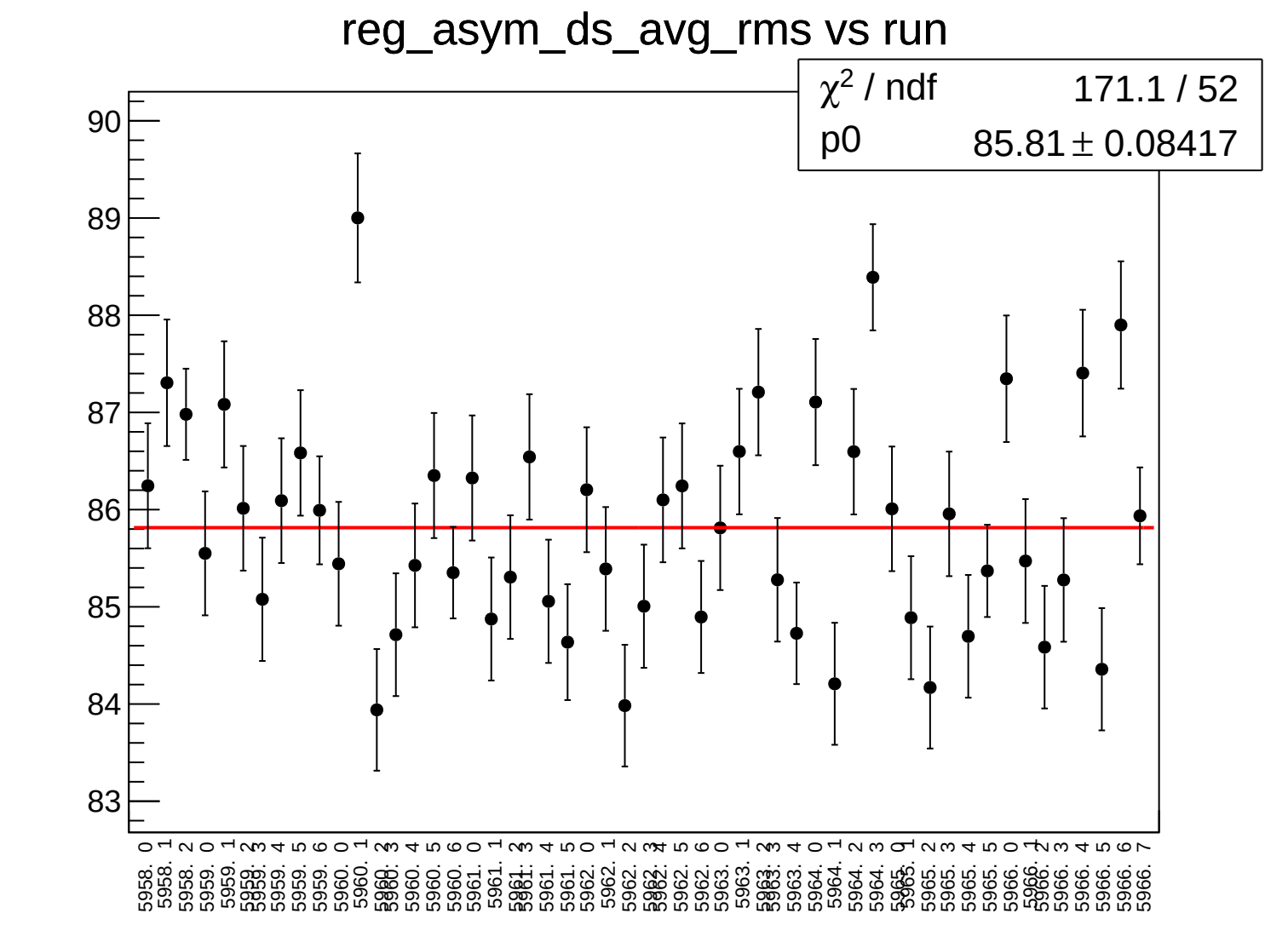

asym_us_dd_mean vs run
χ² / ndf 68.86 / 52
p0 −27.77 ± 1762
40000
20000
0
−20000
−40000
pull
Entries 53
Mean −204.9
Std Dev 228
2
1
0
−1
−2

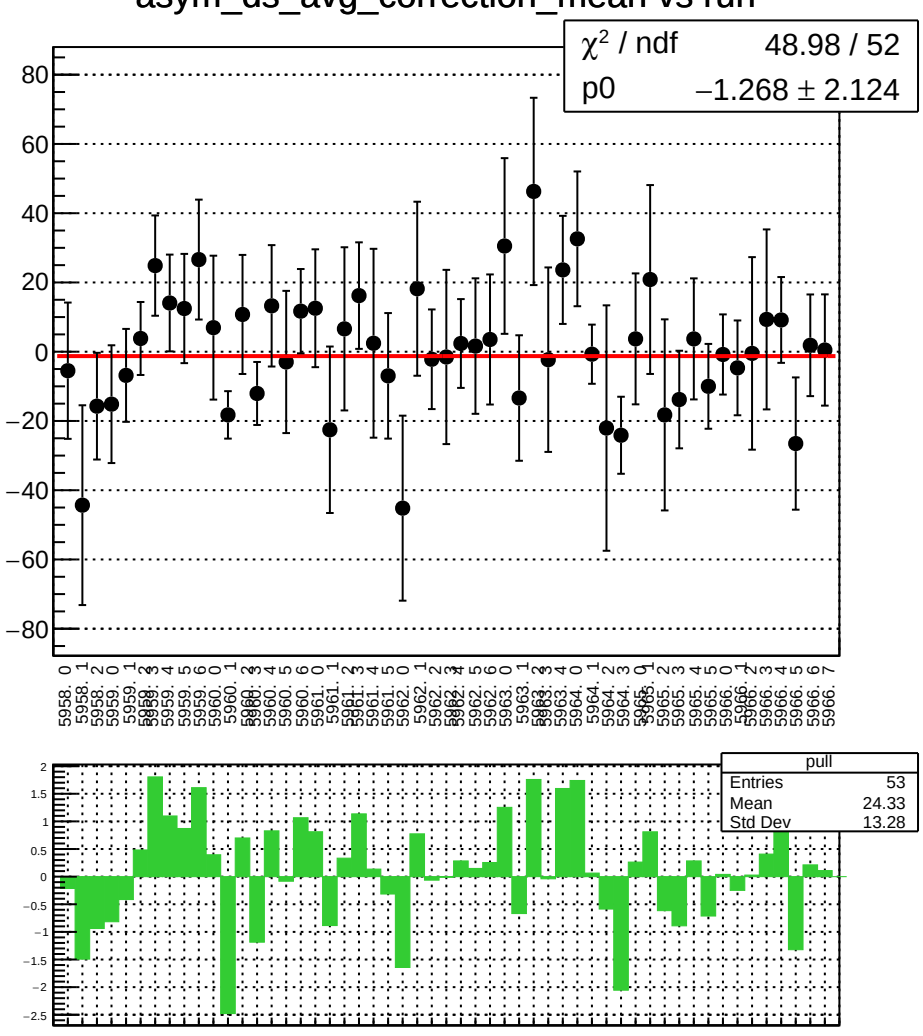

pull1D
Entries 53
Mean −0.01296
Std Dev 1.14
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

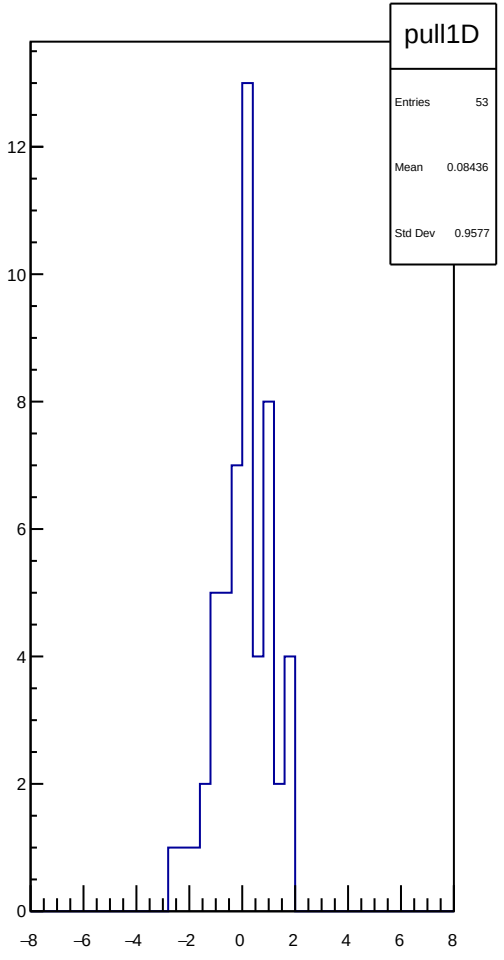

asym_us_dd_rms vs run
χ² / ndf 1120 / 52
p0 1270 ± 1.246
1400
1350
1300
1250
1200
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

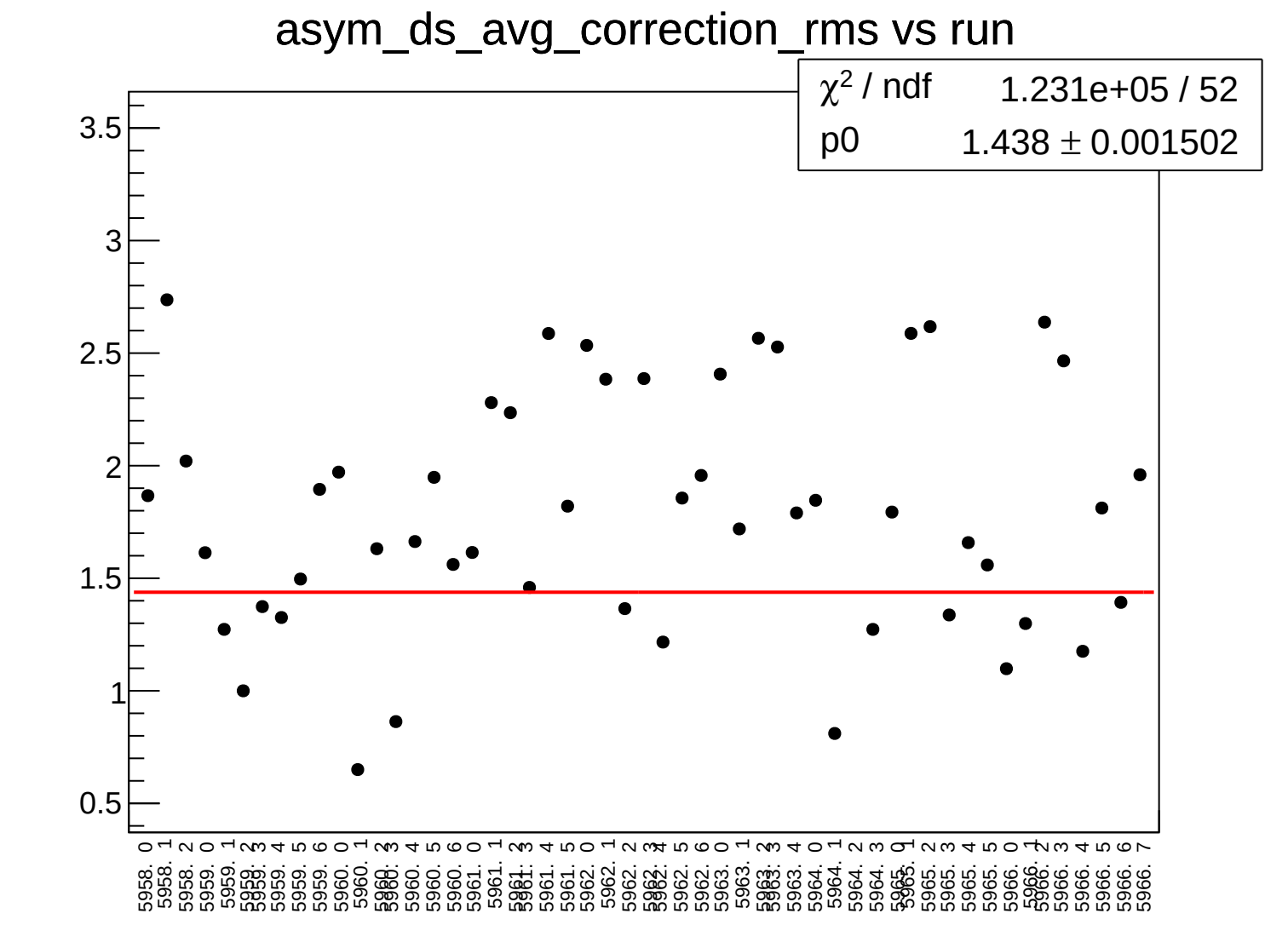

reg_asym_ds_avg_mean vs run
χ² / ndf 42 / 52
p0 22.21 ± 119
pull
Entries 53
Mean −175.1
Std Dev 201.4


pull1D
Entries 53
Mean −0.02149
Std Dev 0.89


reg_asym_ds_avg_rms vs run
χ^2 / ndf 171.1 / 52
p0 85.81 ± 0.08417
90
89
88
87
86
85
84
83


asym_ds_avg_correction_mean vs run
χ² / ndf 48.98 / 52
p0 −1.268 ± 2.124
pull
Entries 53
Mean 24.33
Std Dev 13.28


pull1D
Entries 53
Mean 0.08436
Std Dev 0.9577


asym_ds_avg_correction_rms vs run
χ^2 / ndf 1.231e+05 / 52
p0 1.438 ± 0.001502
3.5
3
2.5
2
1.5
1
0.5
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
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5966. 2
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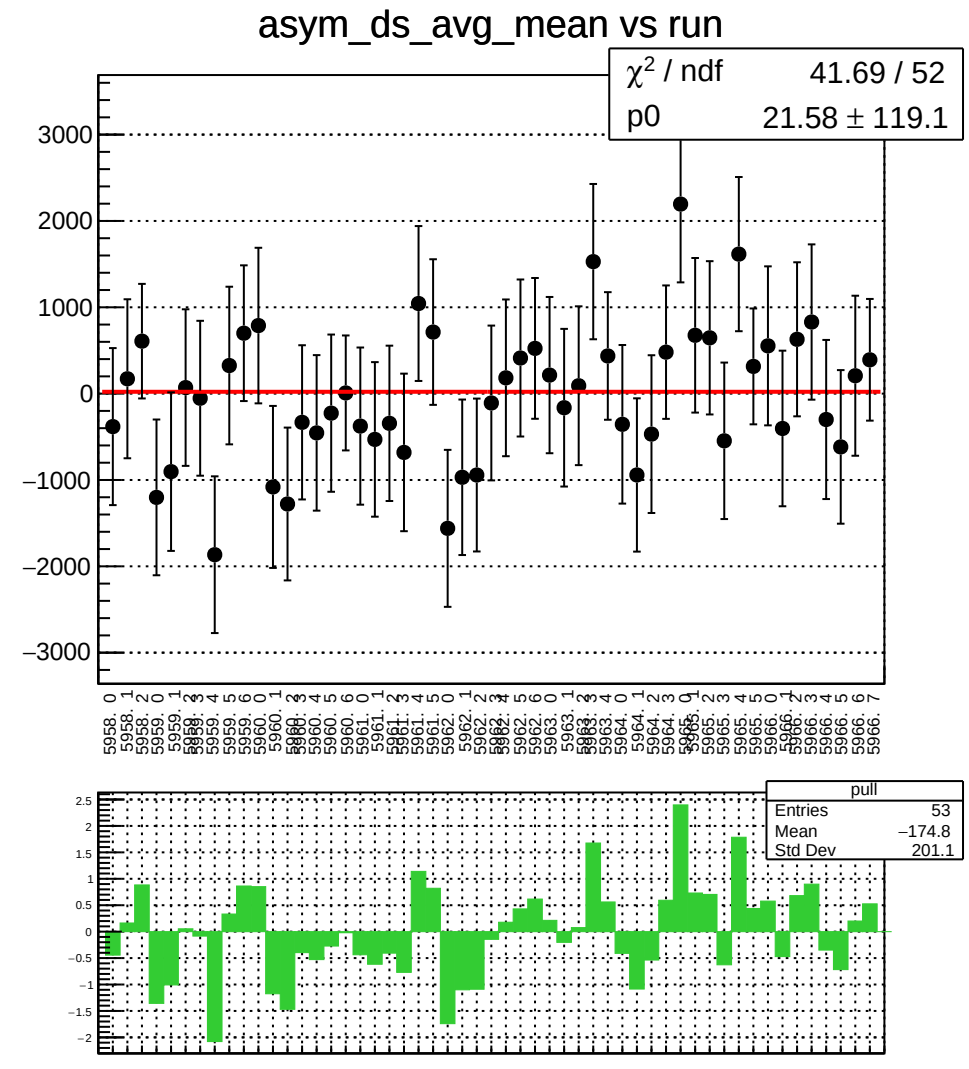
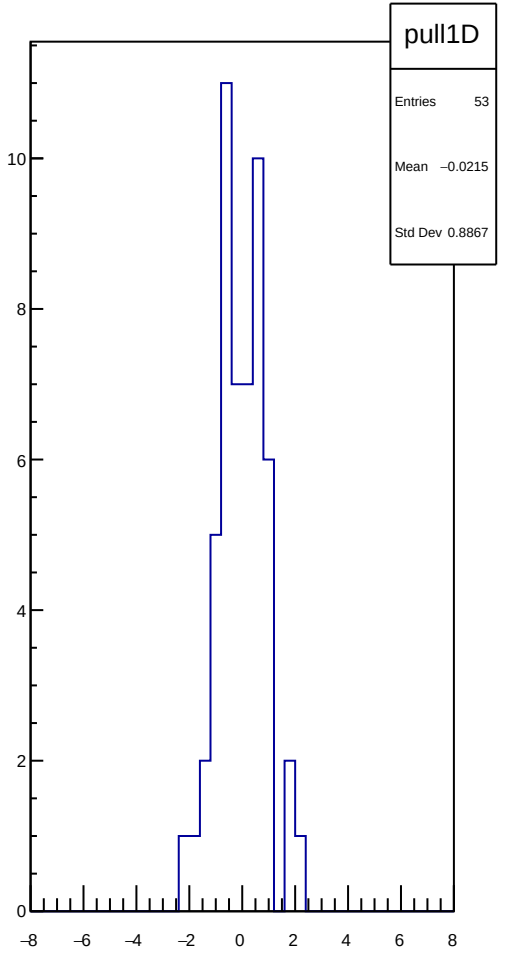
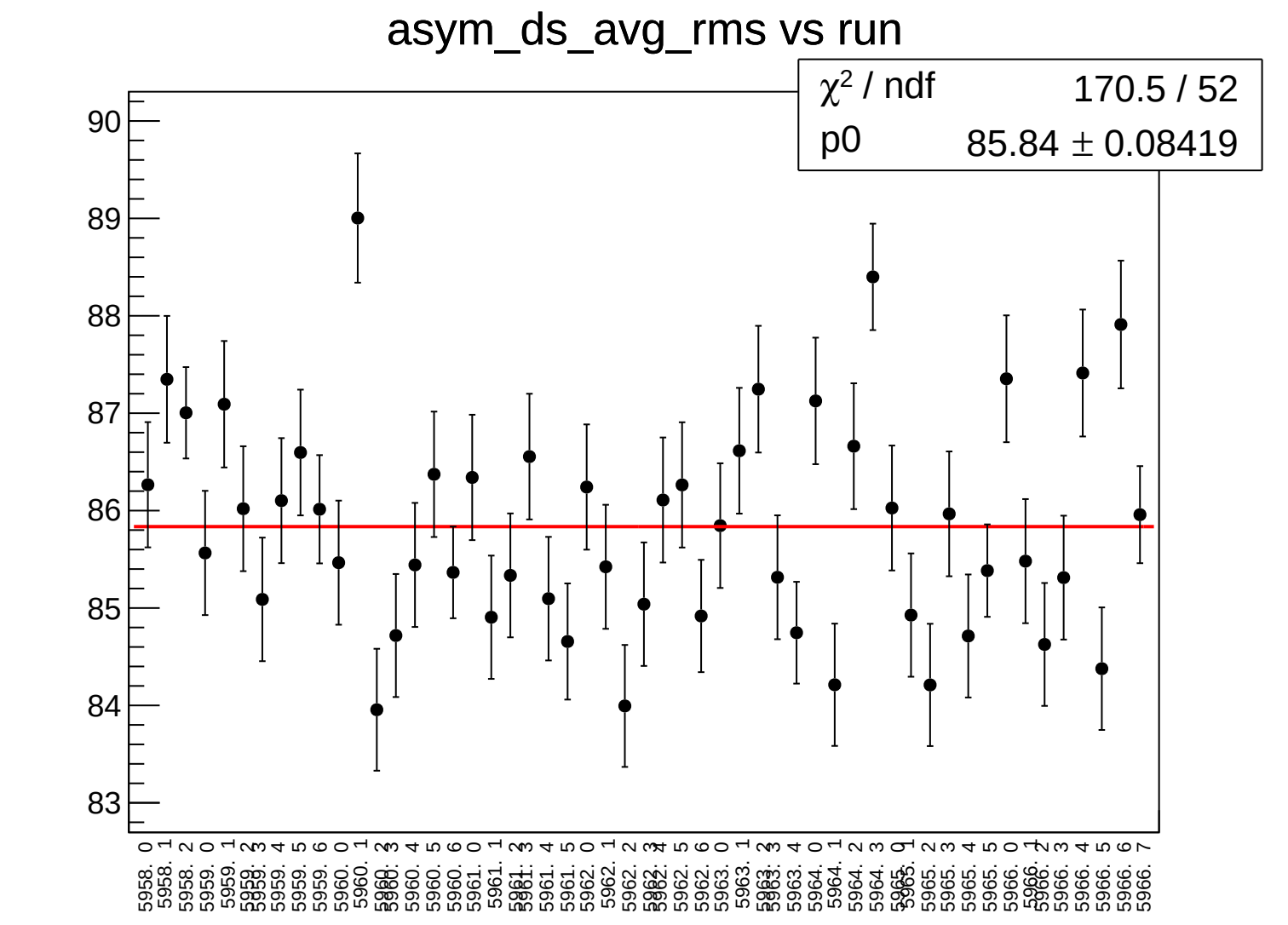
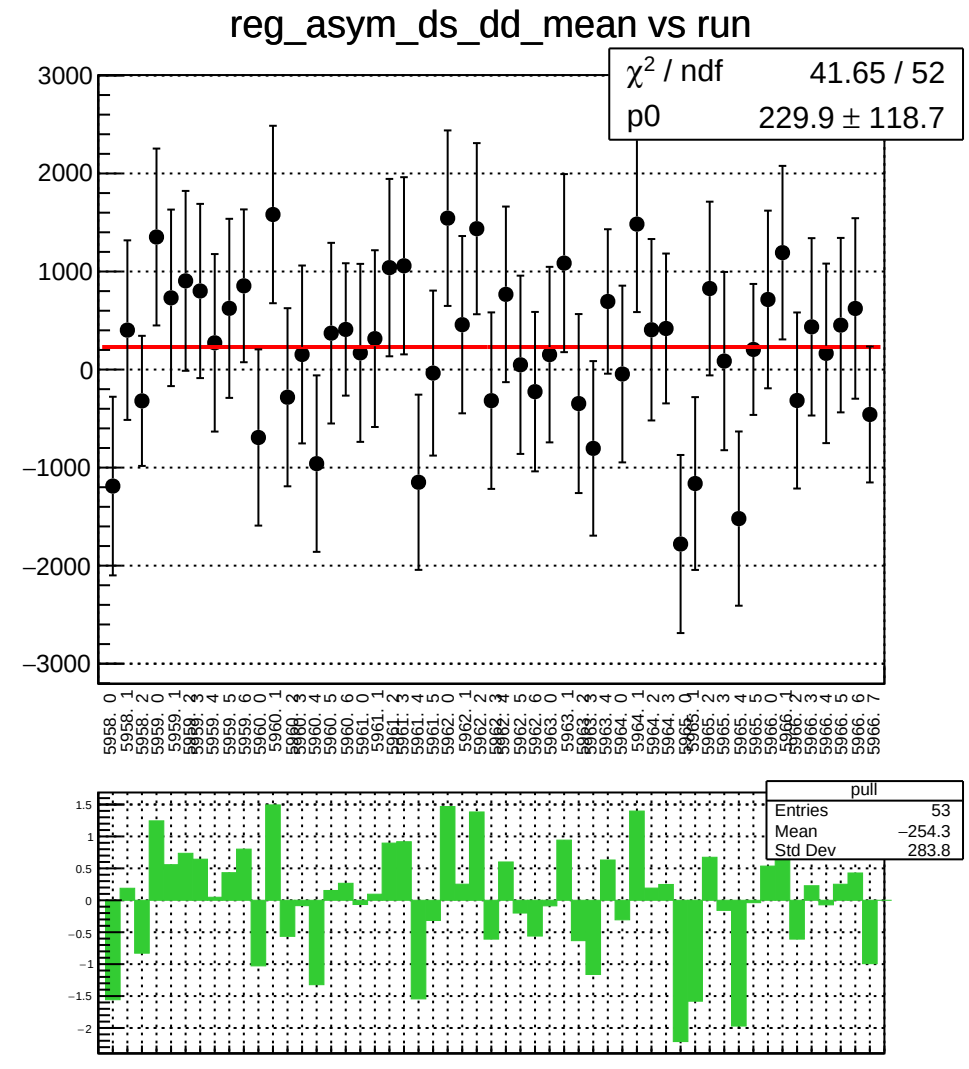
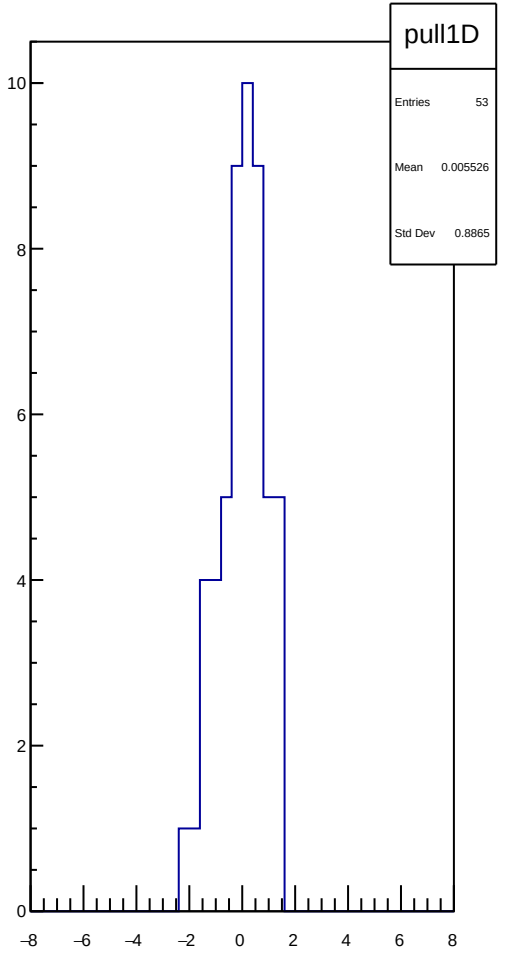
5966. 4
5966. 5
5966. 6
5966. 7

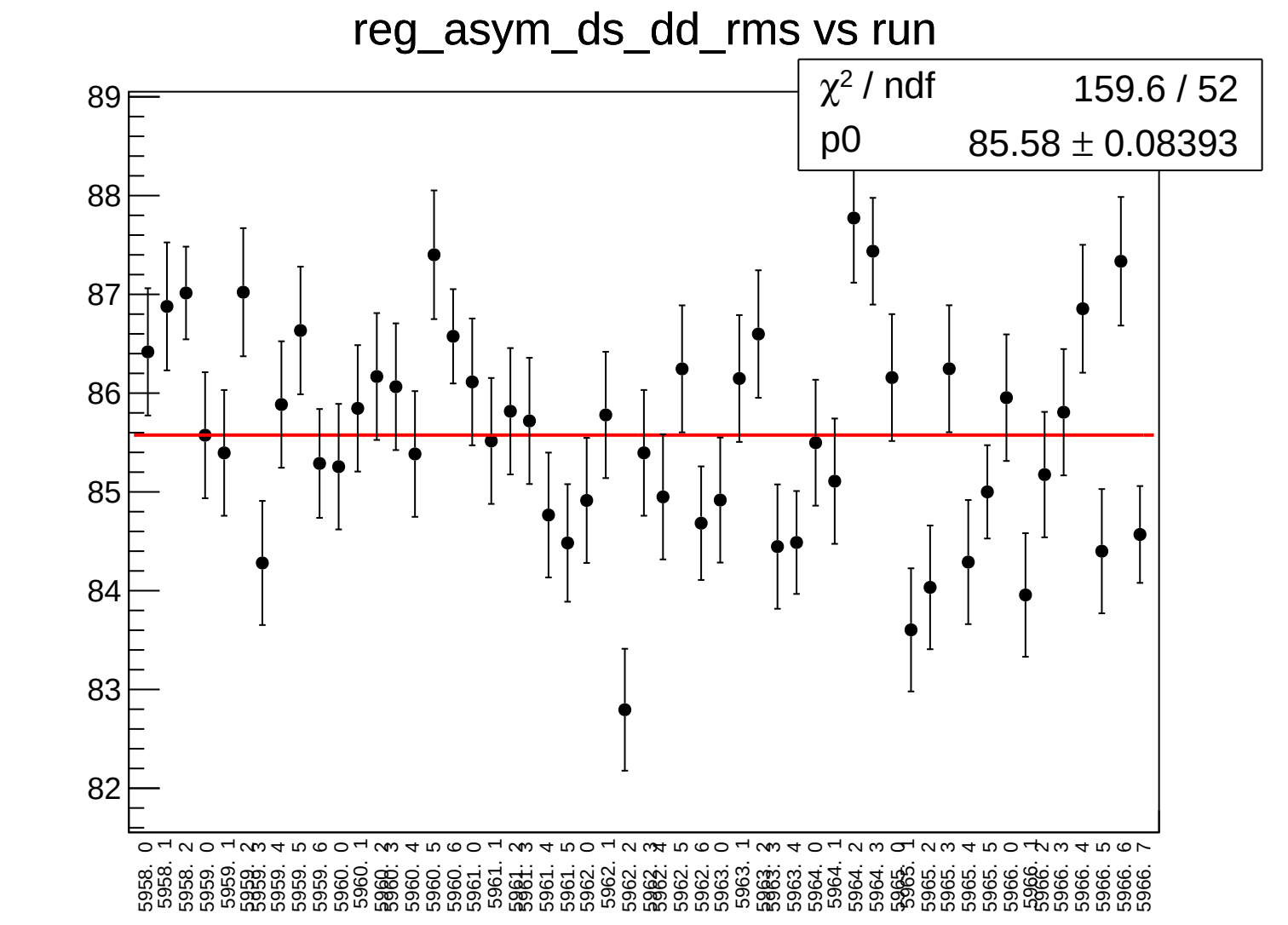

asym_ds_avg_mean vs run
χ² / ndf 41.69 / 52
p0 21.58 ± 119.1
pull
Entries 53
Mean −174.8
Std Dev 201.1


pull1D
Entries 53
Mean −0.0215
Std Dev 0.8867


asym_ds_avg_rms vs run
χ^2 / ndf 170.5 / 52
p0 85.84 ± 0.08419
90
89
88
87
86
85
84
83


reg_asym_ds_dd_mean vs run
χ² / ndf 41.65 / 52
p0 229.9 ± 118.7
pull
Entries 53
Mean −254.3
Std Dev 283.8


pull1D
Entries 53
Mean 0.005526
Std Dev 0.8865


reg_asym_ds_dd_rms vs run
χ² / ndf 159.6 / 52
p0 85.58 ± 0.08393
89
88
87
86
85
84
83
82
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
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5960. 1
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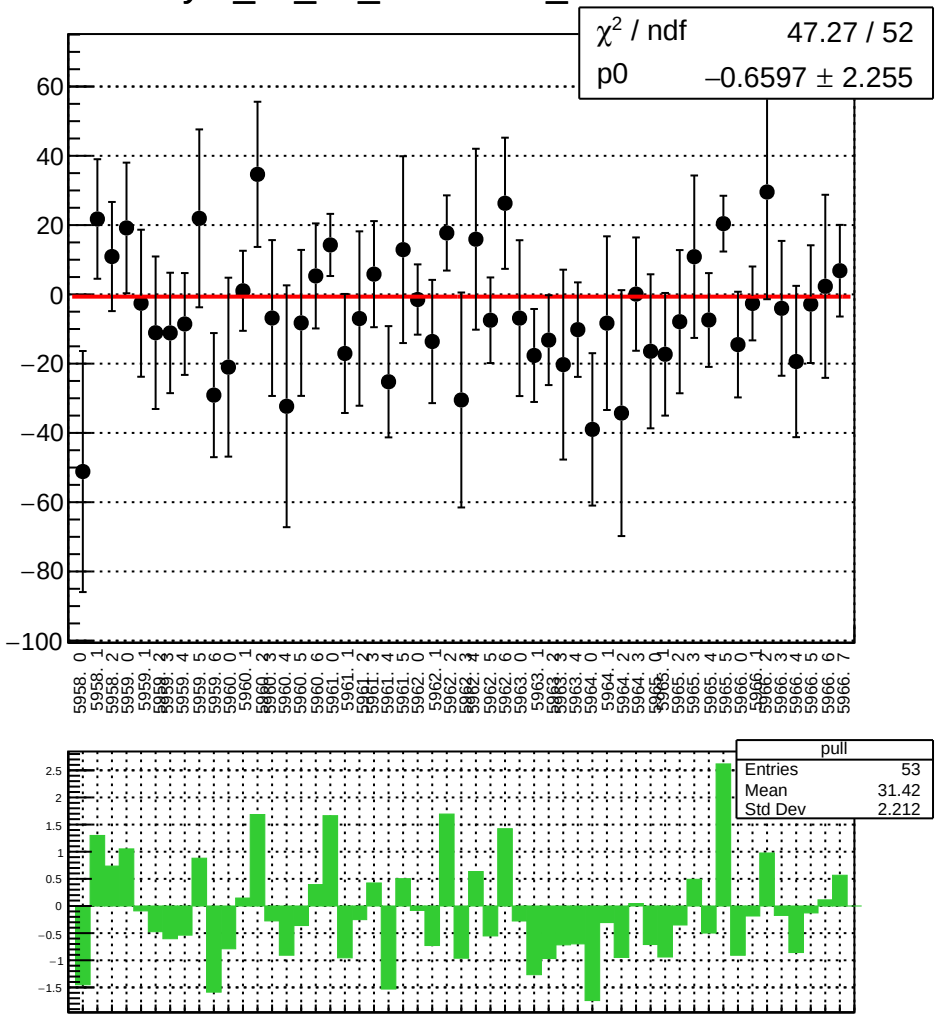
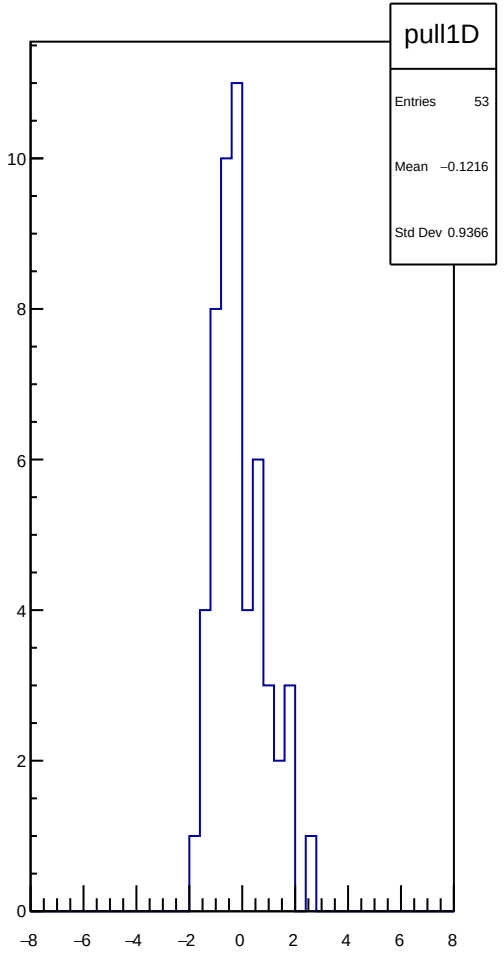
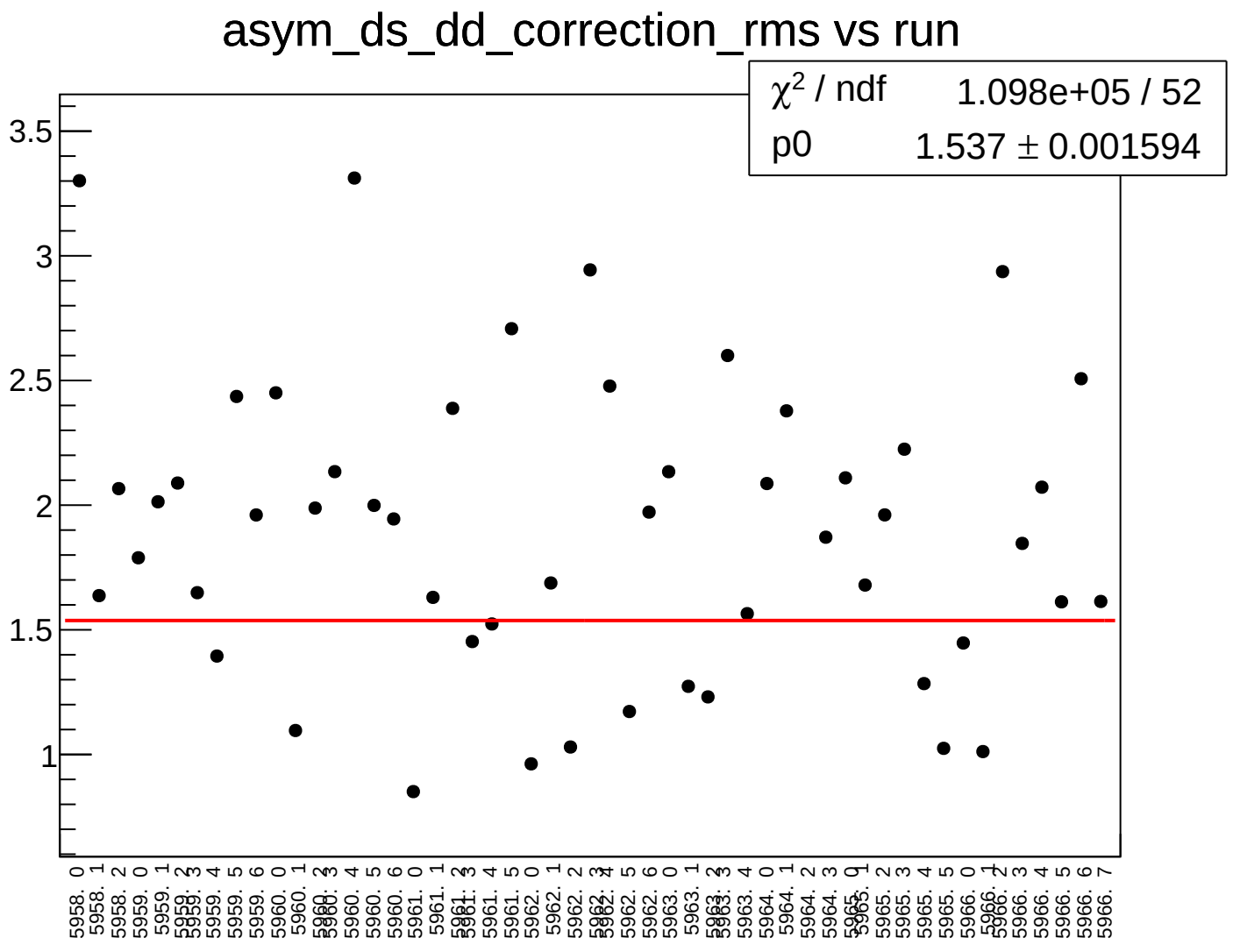
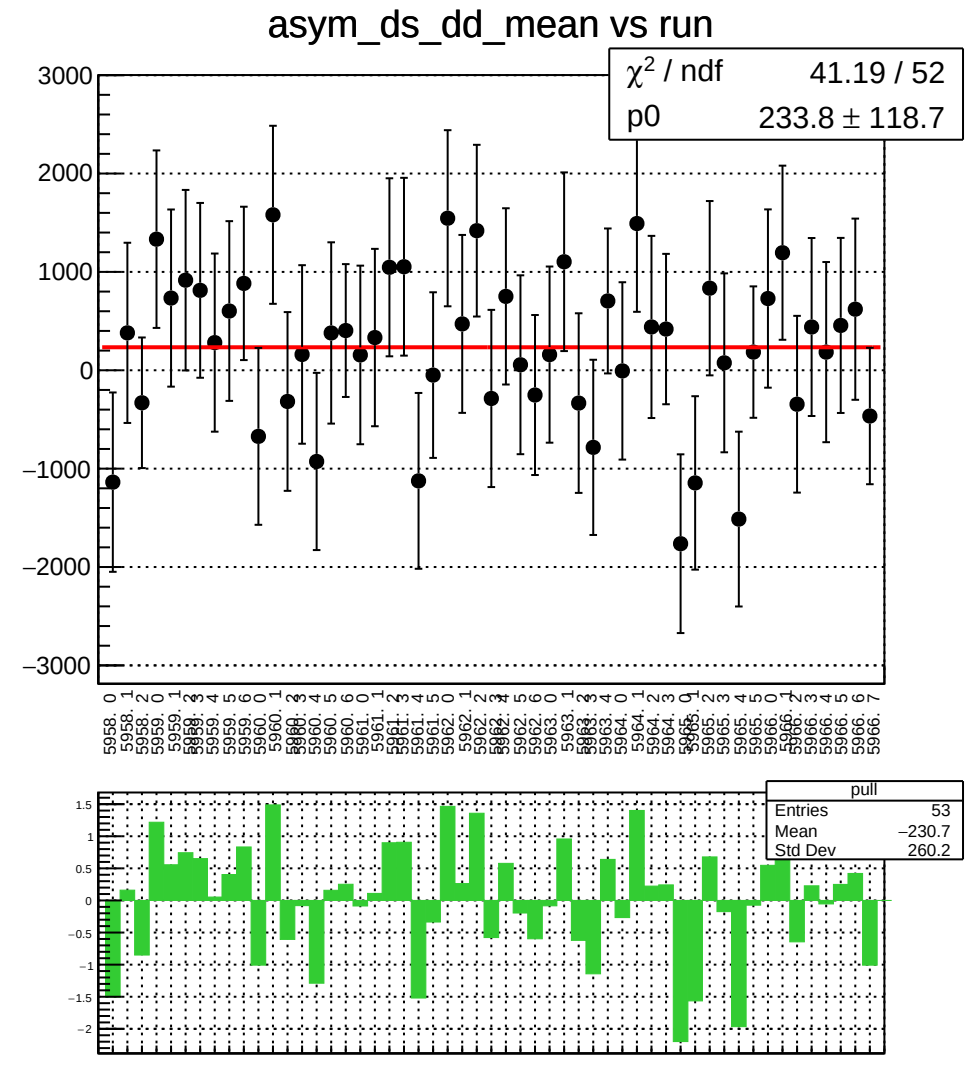
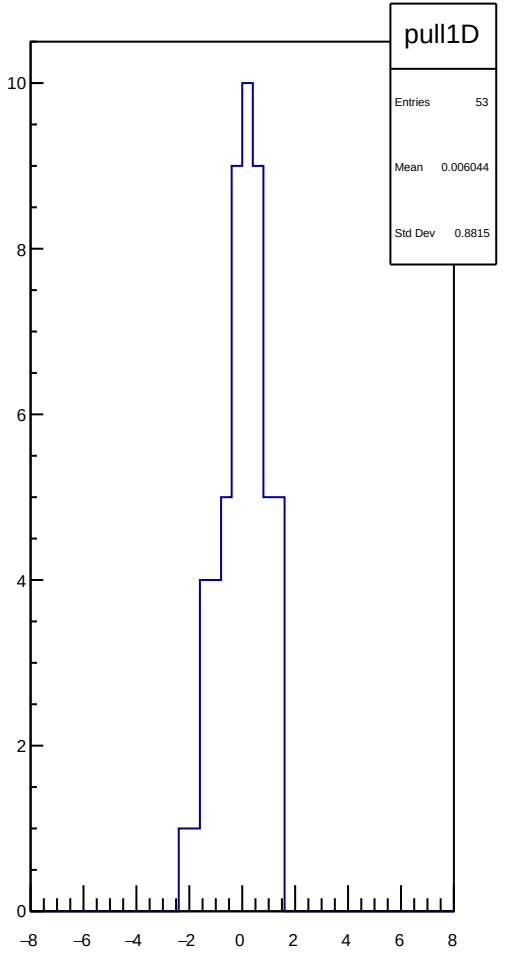
5966. 7

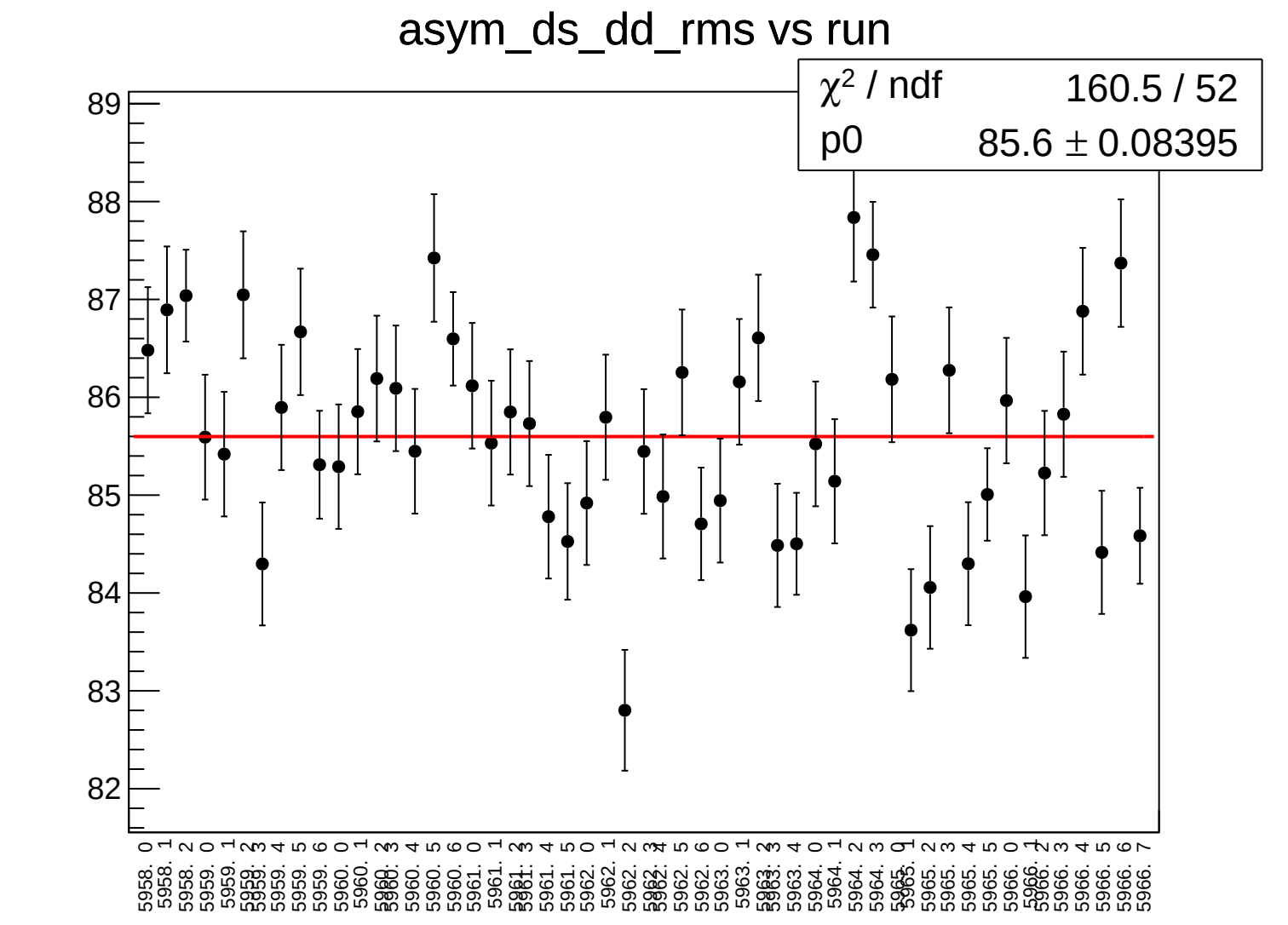

asym_ds_dd_correction_mean vs run
χ² / ndf 47.27 / 52
p0 −0.6597 ± 2.255
pull
Entries 53
Mean 31.42
Std Dev 2.212

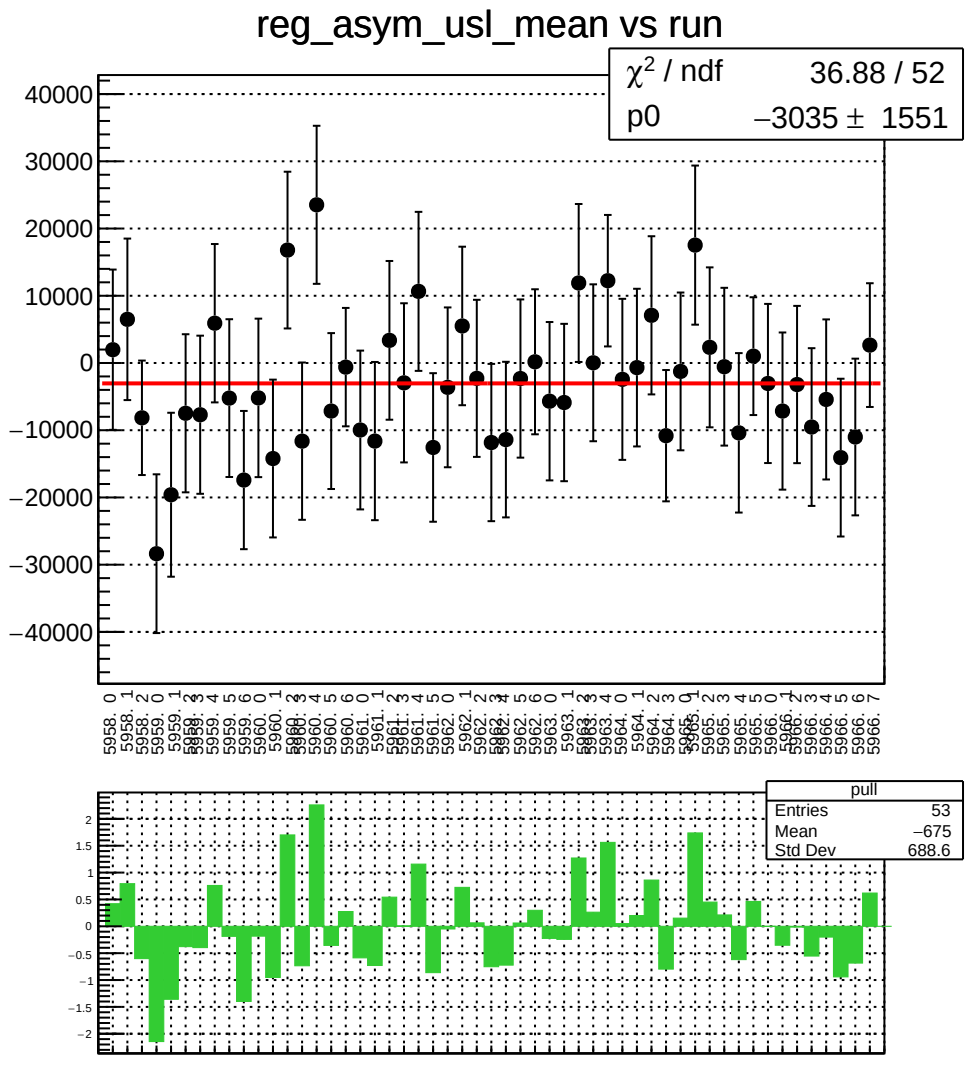

pull1D
Entries 53
Mean −0.1216
Std Dev 0.9366

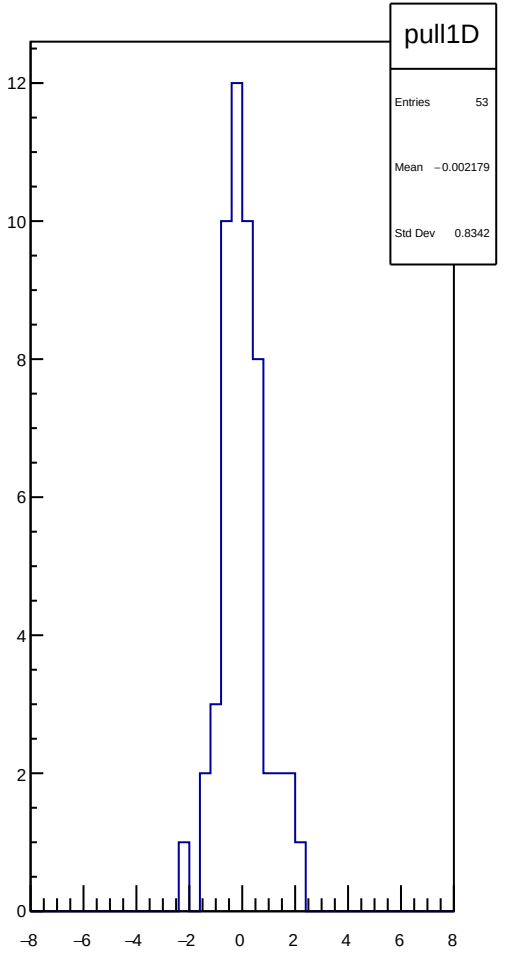

asym_ds_dd_correction_rms vs run
χ^2 / ndf 1.098e+05 / 52
p0 1.537 ± 0.001594
3.5
3
2.5
2
1.5
1

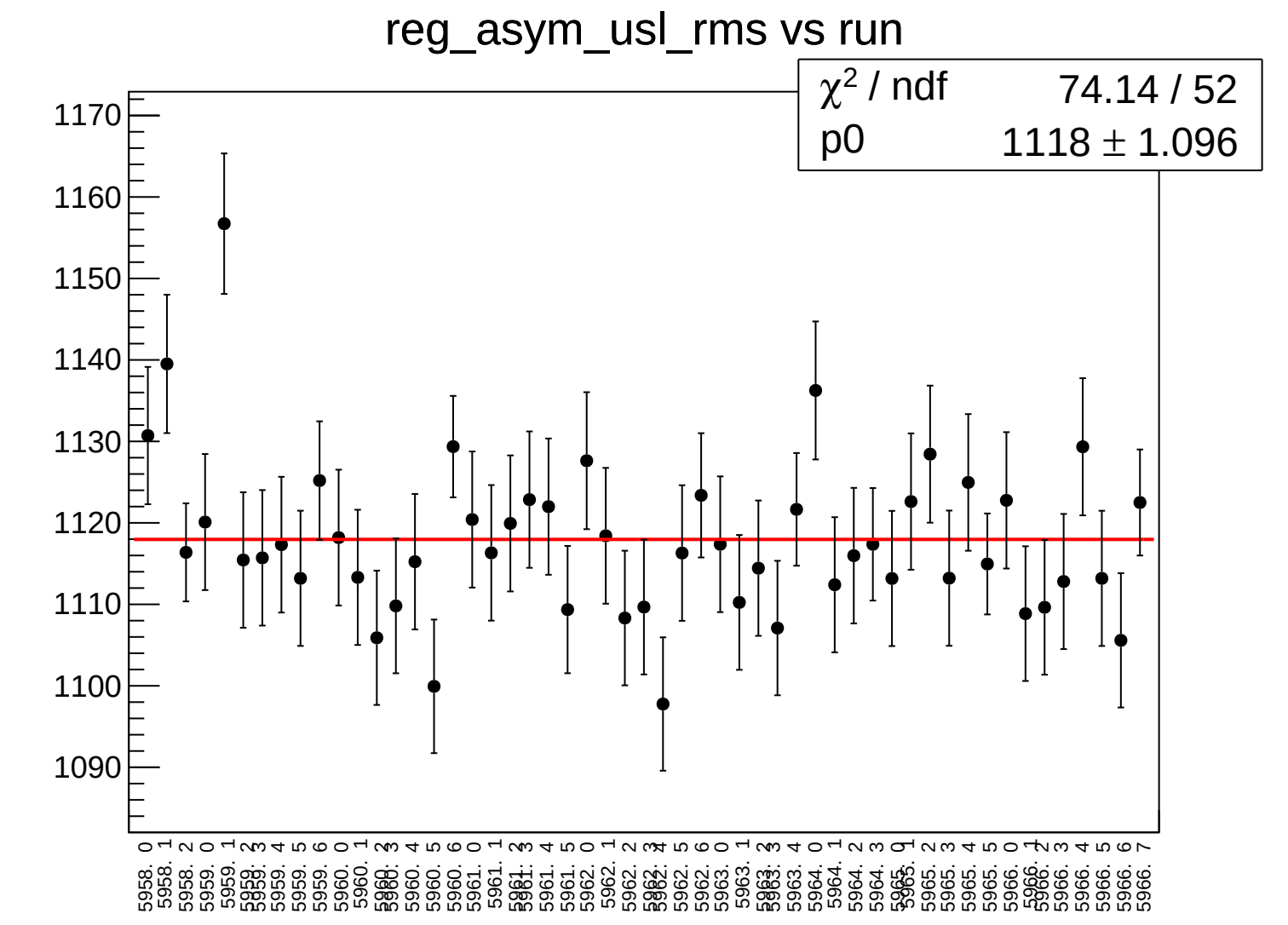

asym_ds_dd_mean vs run
χ² / ndf 41.19 / 52
p0 233.8 ± 118.7
pull
Entries 53
Mean −230.7
Std Dev 260.2

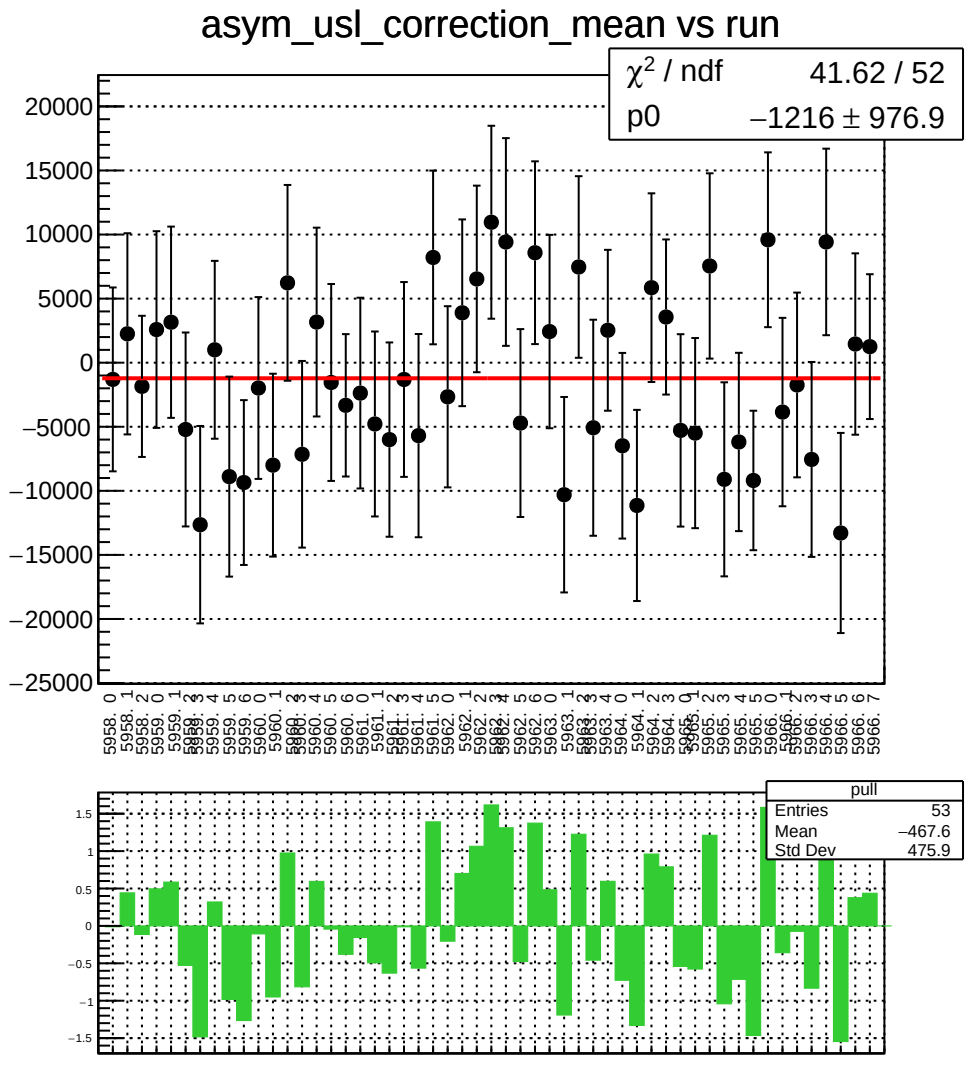

pull1D
Entries 53
Mean 0.006044
Std Dev 0.8815

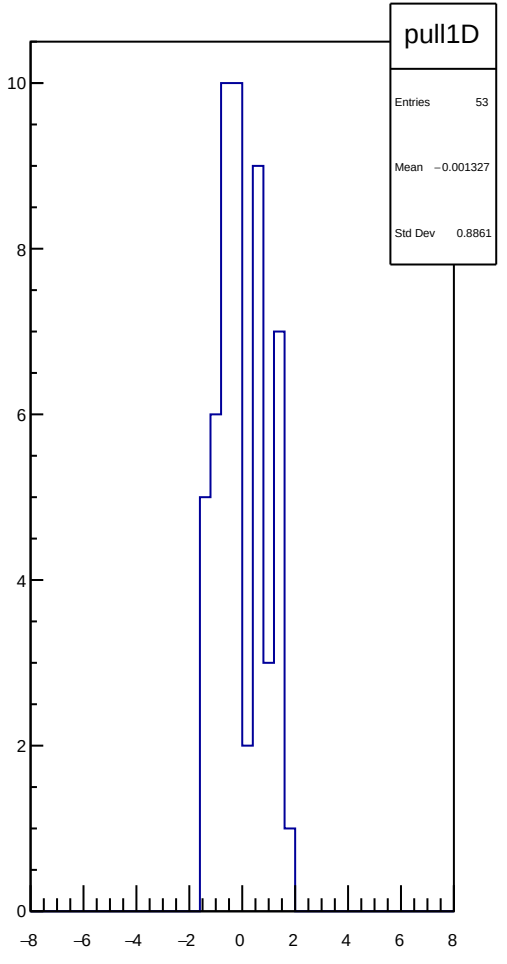

asym_ds_dd_rms vs run
χ² / ndf 160.5 / 52
p0 85.6 ± 0.08395
89
88
87
86
85
84
83
82
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5964. 4
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

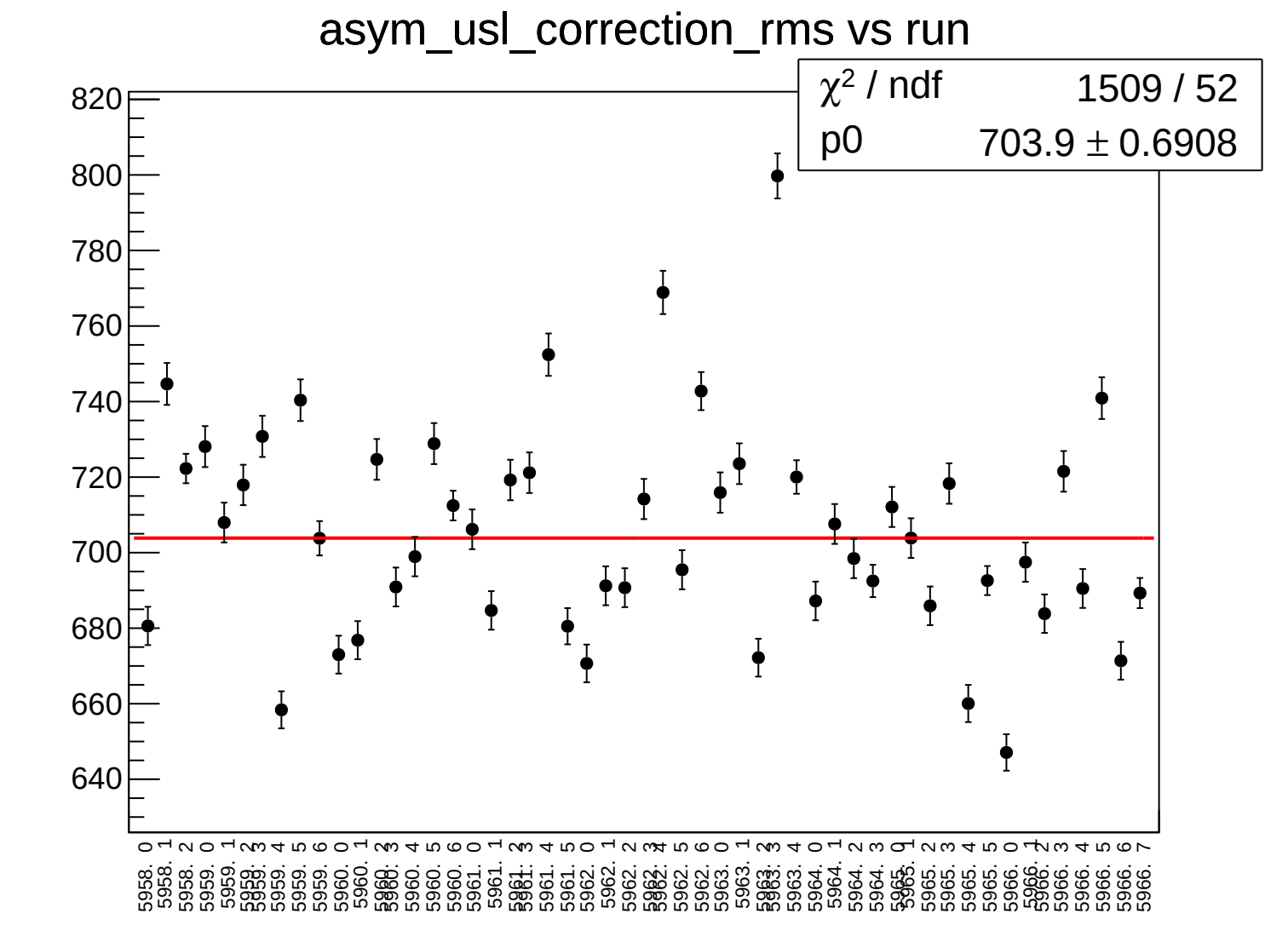

reg_asym_usl_mean vs run
χ² / ndf 36.88 / 52
p0 −3035 ± 1551
pull
Entries 53
Mean −675
Std Dev 688.6

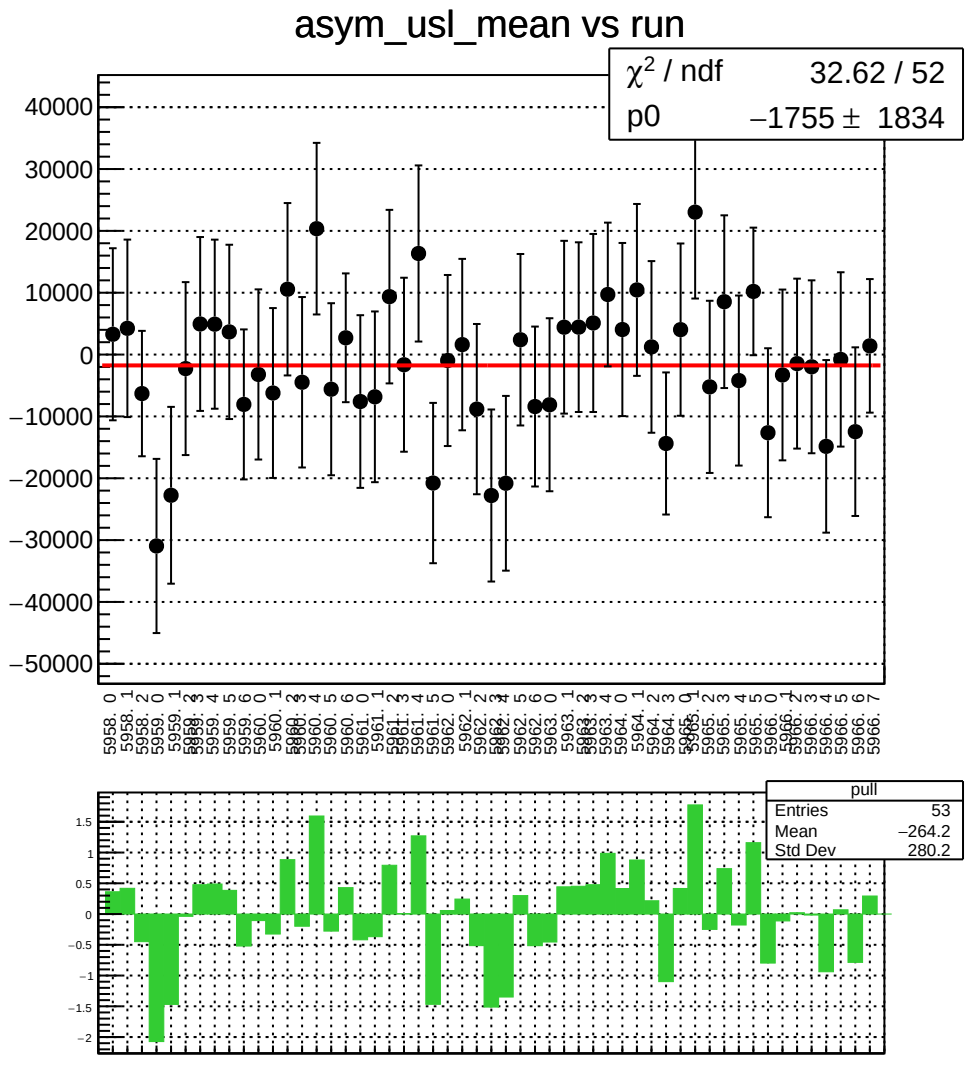

pull1D
Entries 53
Mean −0.002179
Std Dev 0.8342

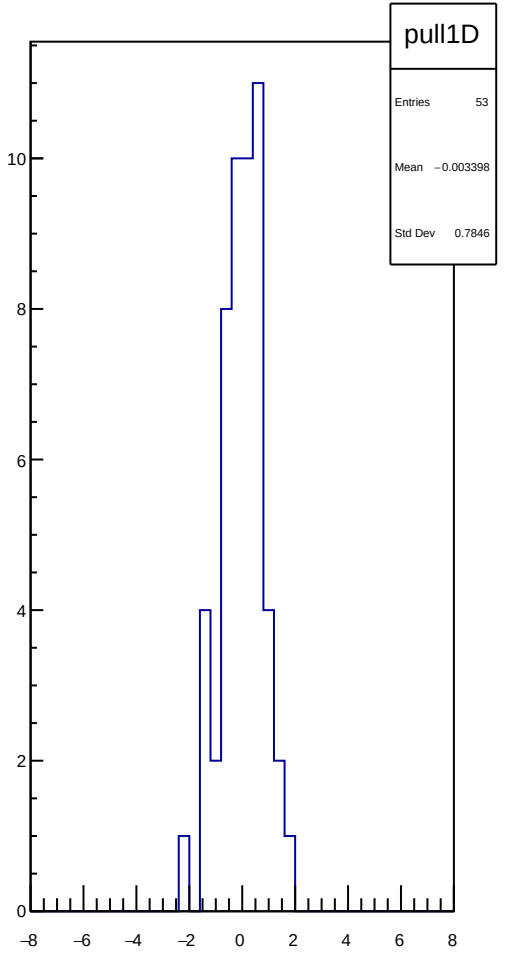

reg_asym_usl_rms vs run
χ² / ndf 74.14 / 52
p0 1118 ± 1.096
1170
1160
1150
1140
1130
1120
1110
1100
1090

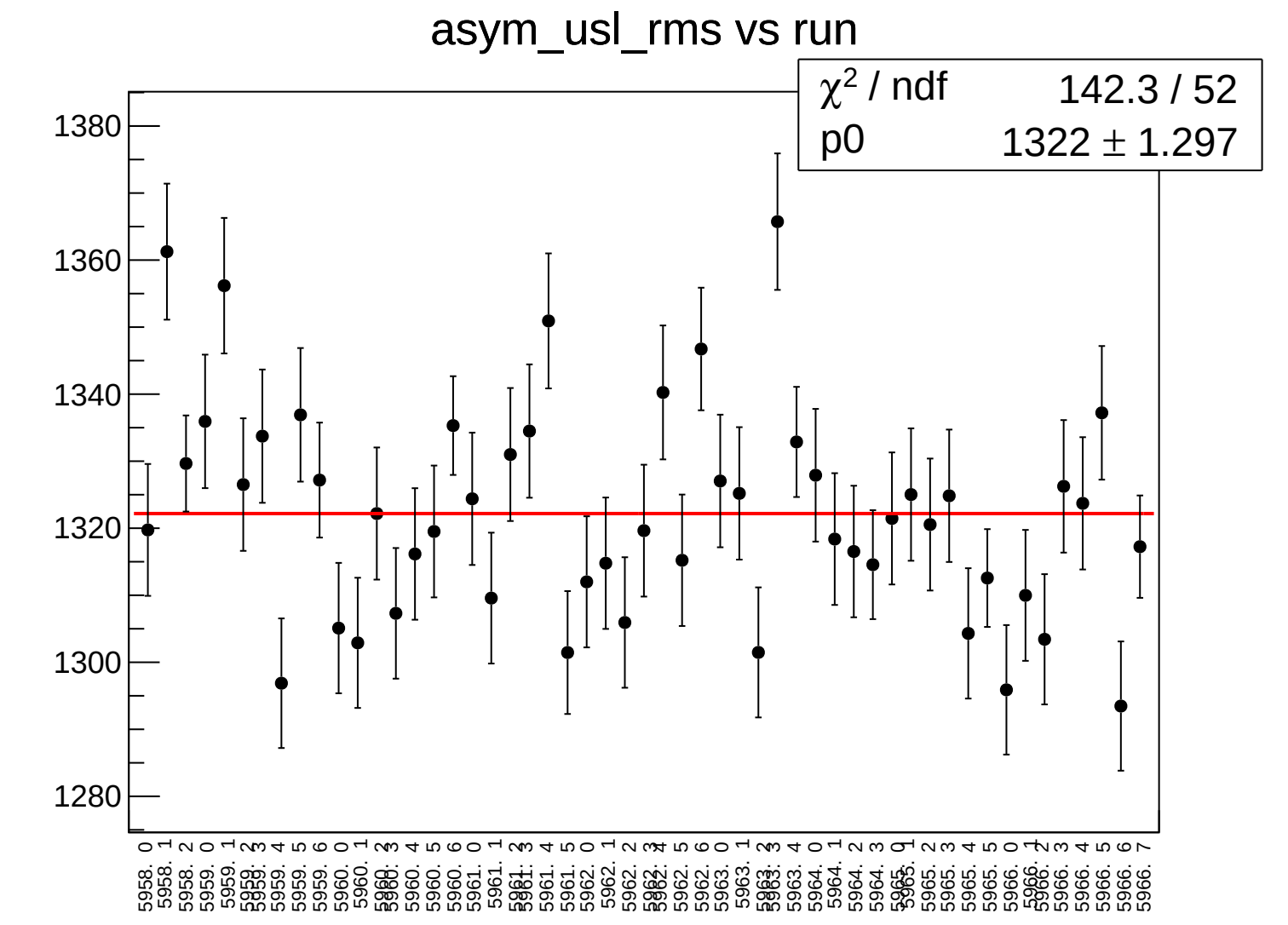

asym_usl_correction_mean vs run
χ² / ndf 41.62 / 52
p0 −1216 ± 976.9
pull
Entries 53
Mean −467.6
Std Dev 475.9

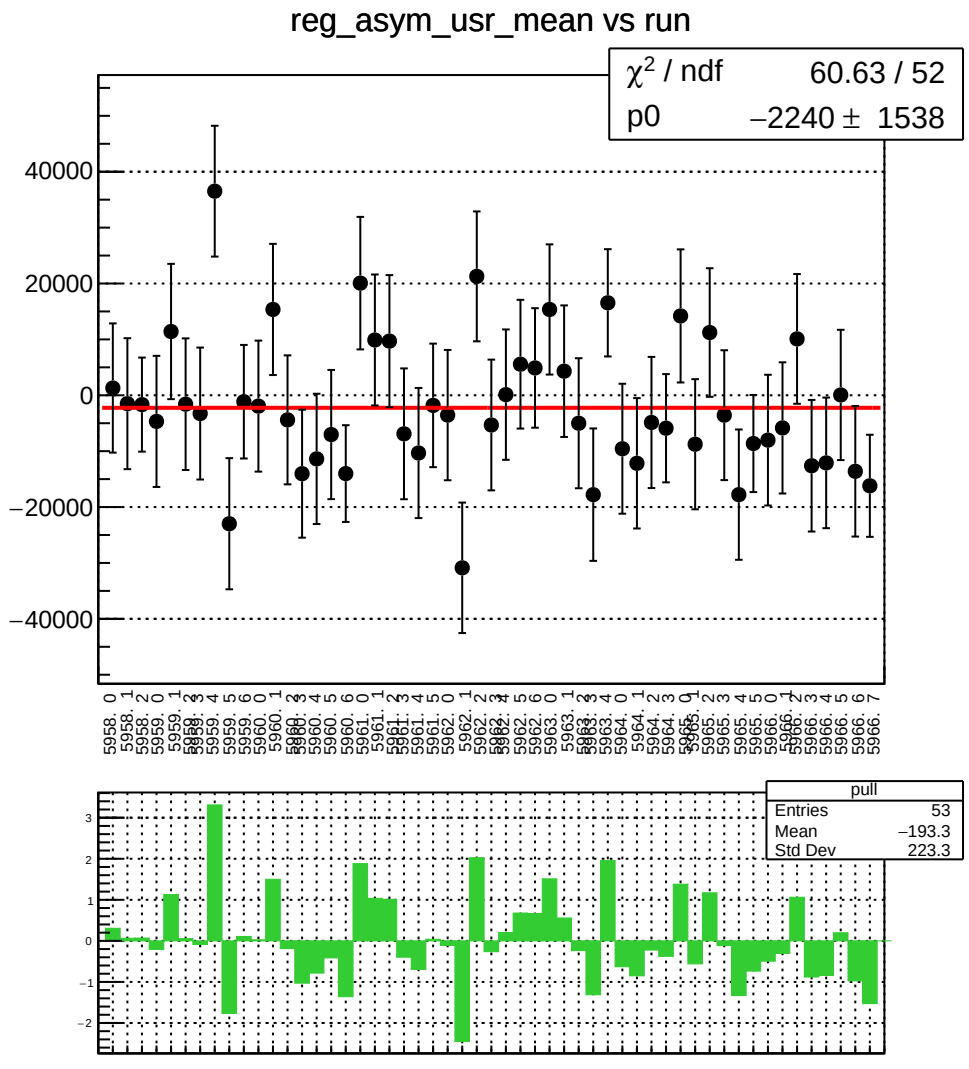

pull1D
Entries 53
Mean −0.001327
Std Dev 0.8861

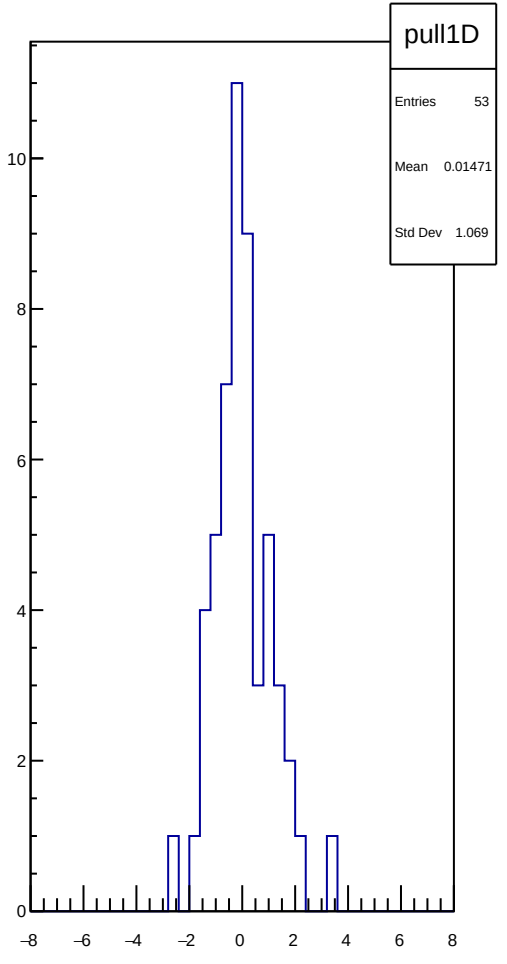

asym_usl_correction_rms vs run
χ² / ndf 1509 / 52
p0 703.9 ± 0.6908
820
800
780
760
740
720
700
680
660
640

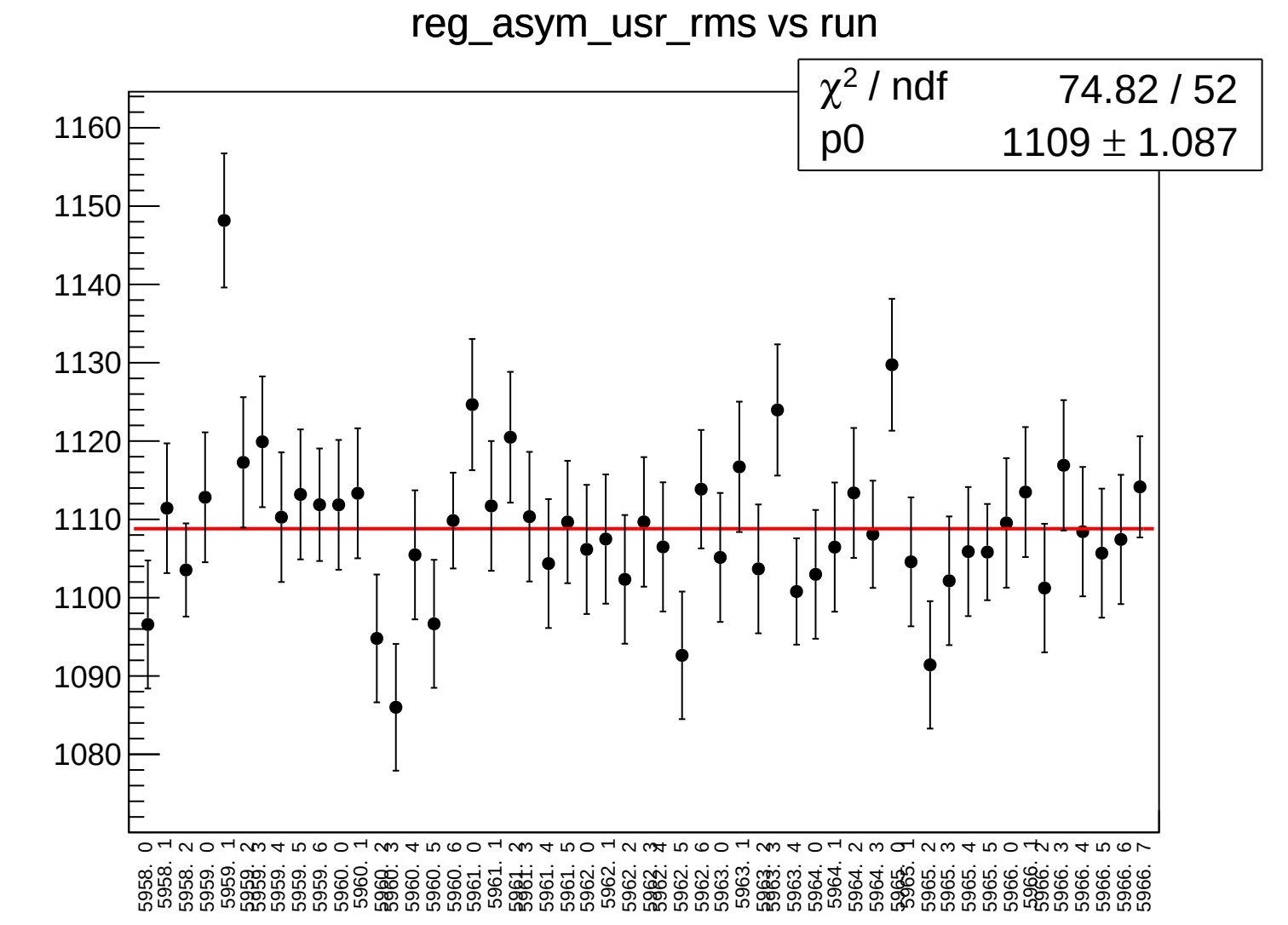

asym_usl_mean vs run
χ² / ndf 32.62 / 52
p0 −1755 ± 1834
pull
Entries 53
Mean −264.2
Std Dev 280.2

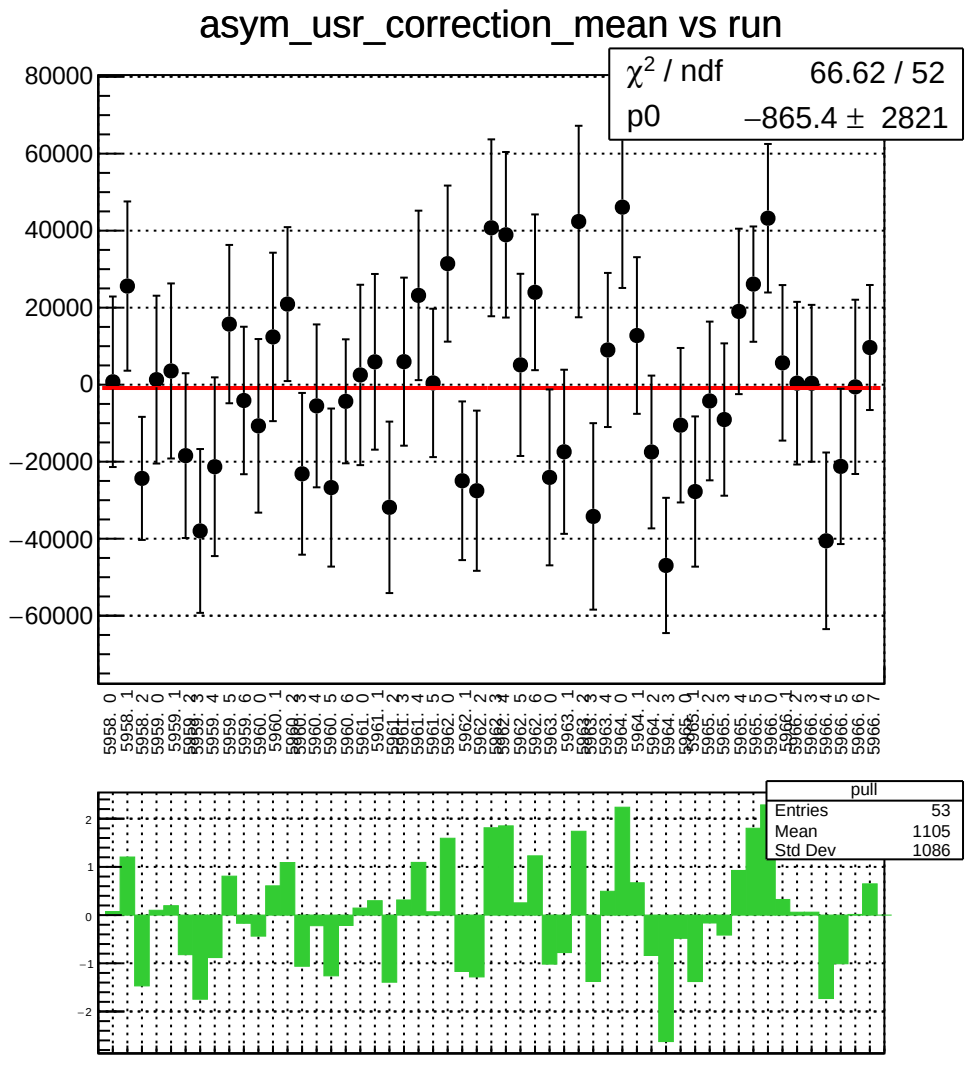

pull1D
Entries 53
Mean −0.003398
Std Dev 0.7846

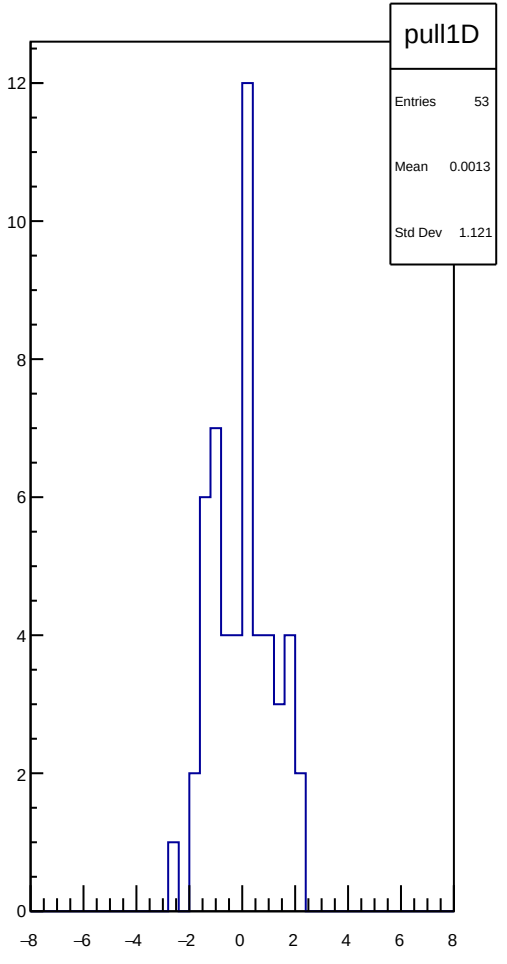

asym_usl_rms vs run
χ² / ndf 142.3 / 52
p0 1322 ± 1.297
1380
1360
1340
1320
1300
1280

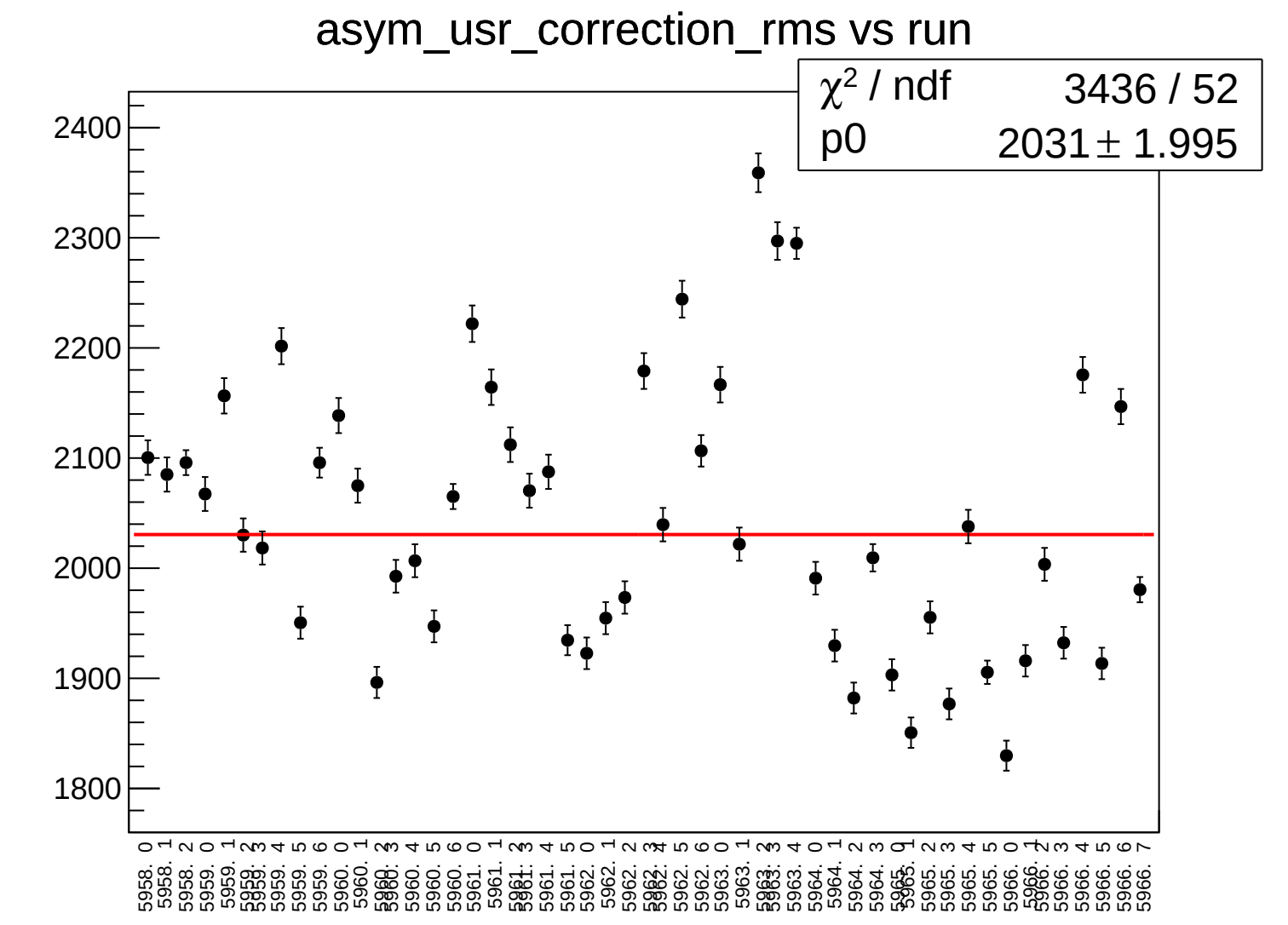

reg_asym_usr_mean vs run
χ² / ndf 60.63 / 52
p0 −2240 ± 1538
40000
20000
0
−20000
−40000
pull
Entries 53
Mean −193.3
Std Dev 223.3
3
2
1
0
−1
−2

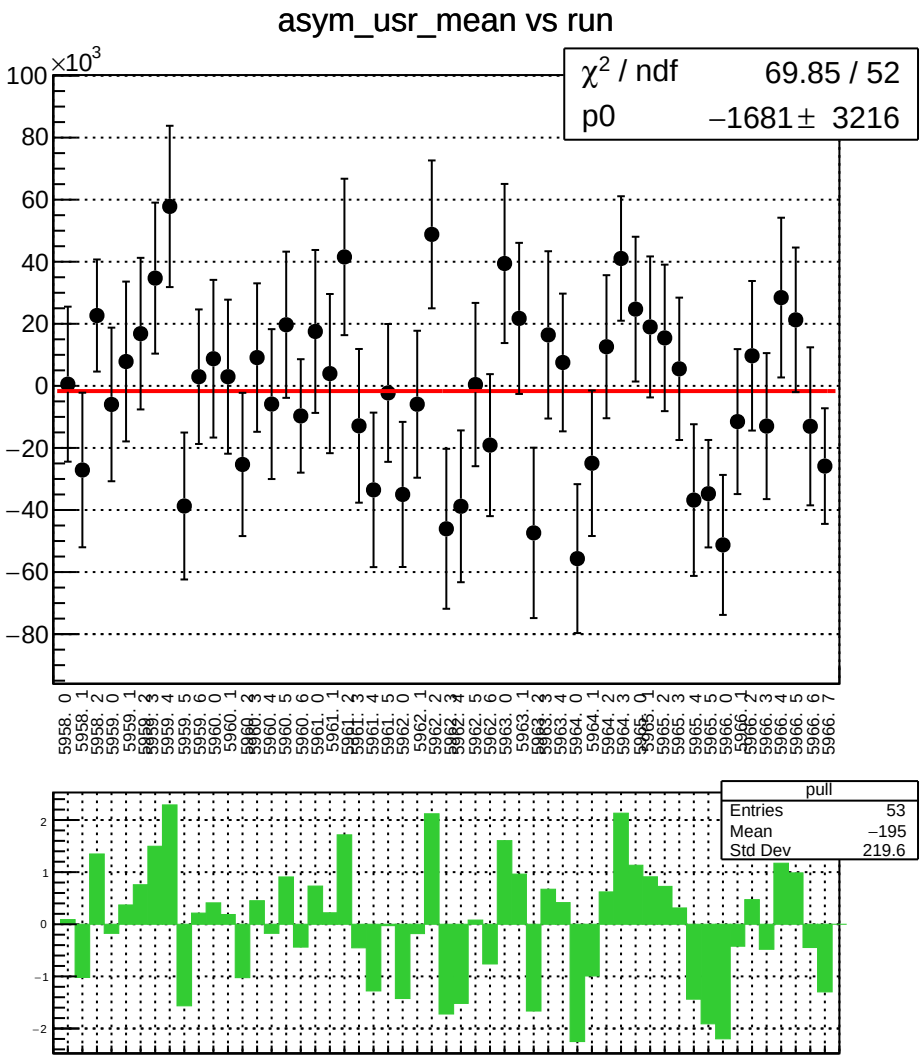

pull1D
Entries 53
Mean 0.01471
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

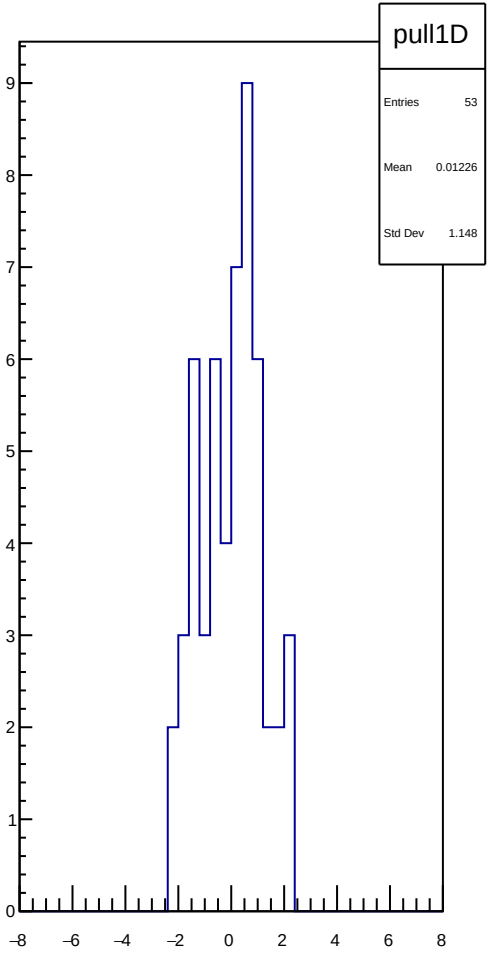

reg_asym_usr_rms vs run
χ² / ndf 74.82 / 52
p0 1109 ± 1.087
1160
1150
1140
1130
1120
1110
1100
1090
1080

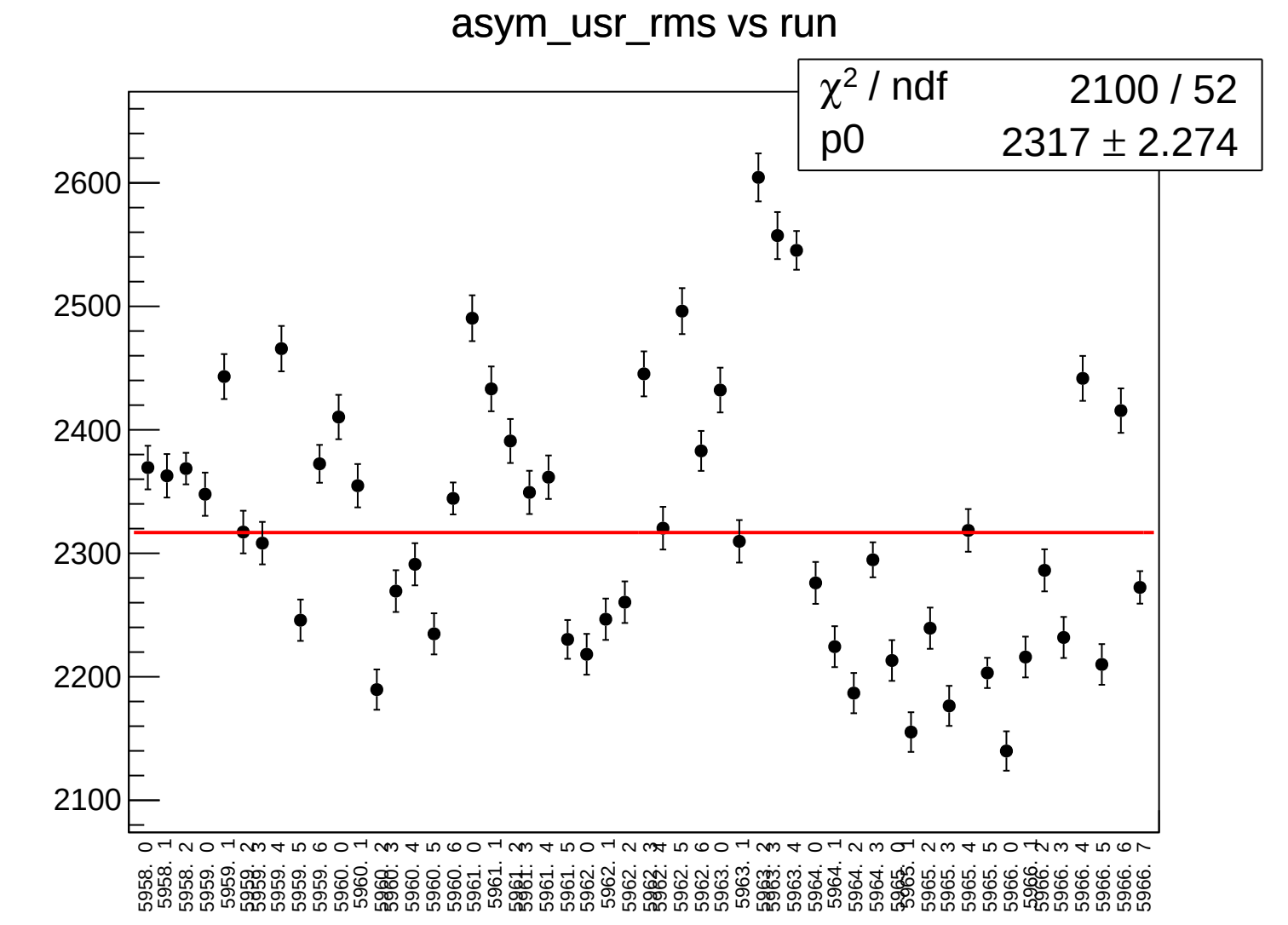

asym_usr_correction_mean vs run
χ² / ndf 66.62 / 52
p0 −865.4 ± 2821
pull
Entries 53
Mean 1105
Std Dev 1086

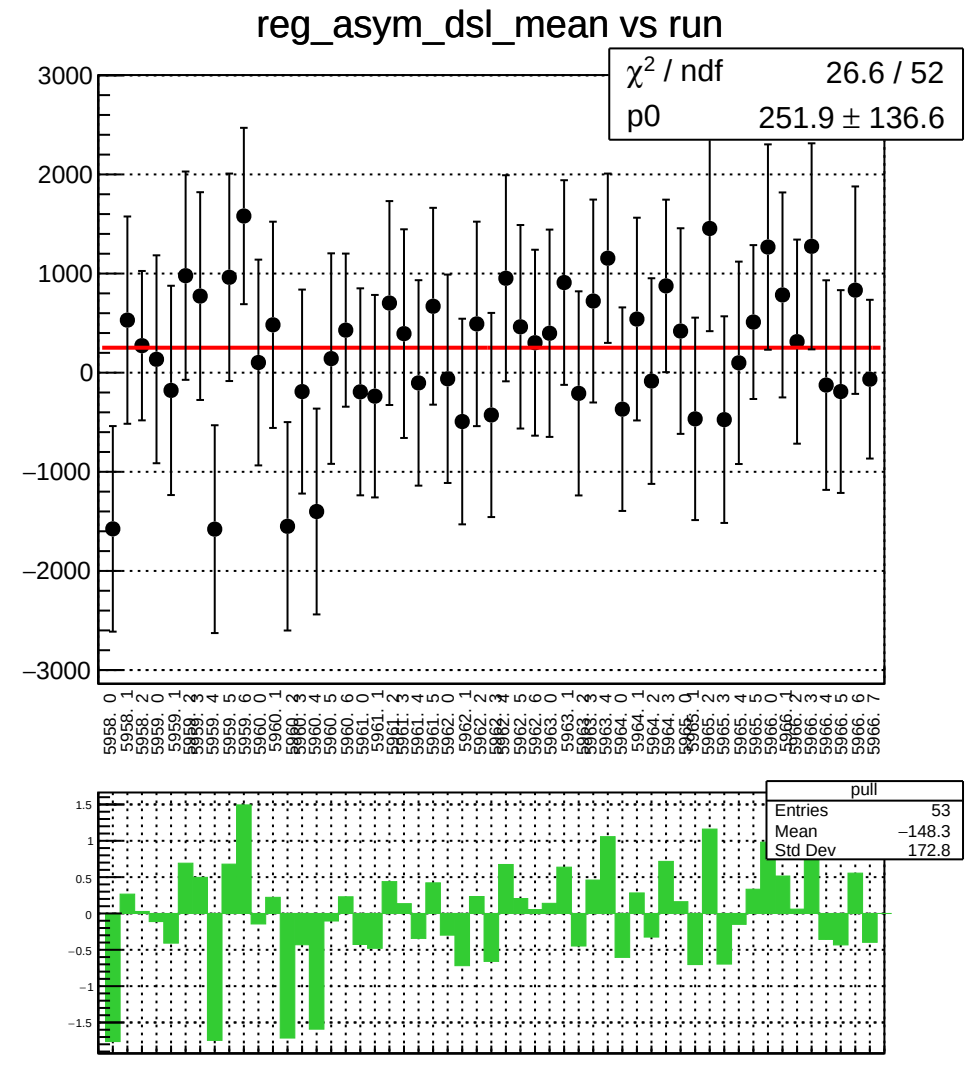

pull1D
Entries 53
Mean 0.0013
Std Dev 1.121

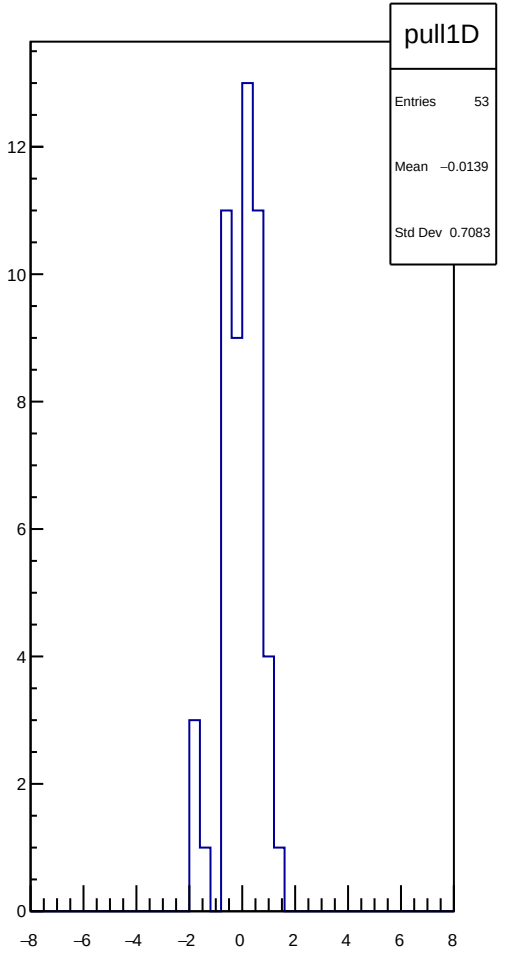

asym_usr_correction_rms vs run
χ² / ndf 3436 / 52
p0 2031 ± 1.995
2400
2300
2200
2100
2000
1900
1800
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

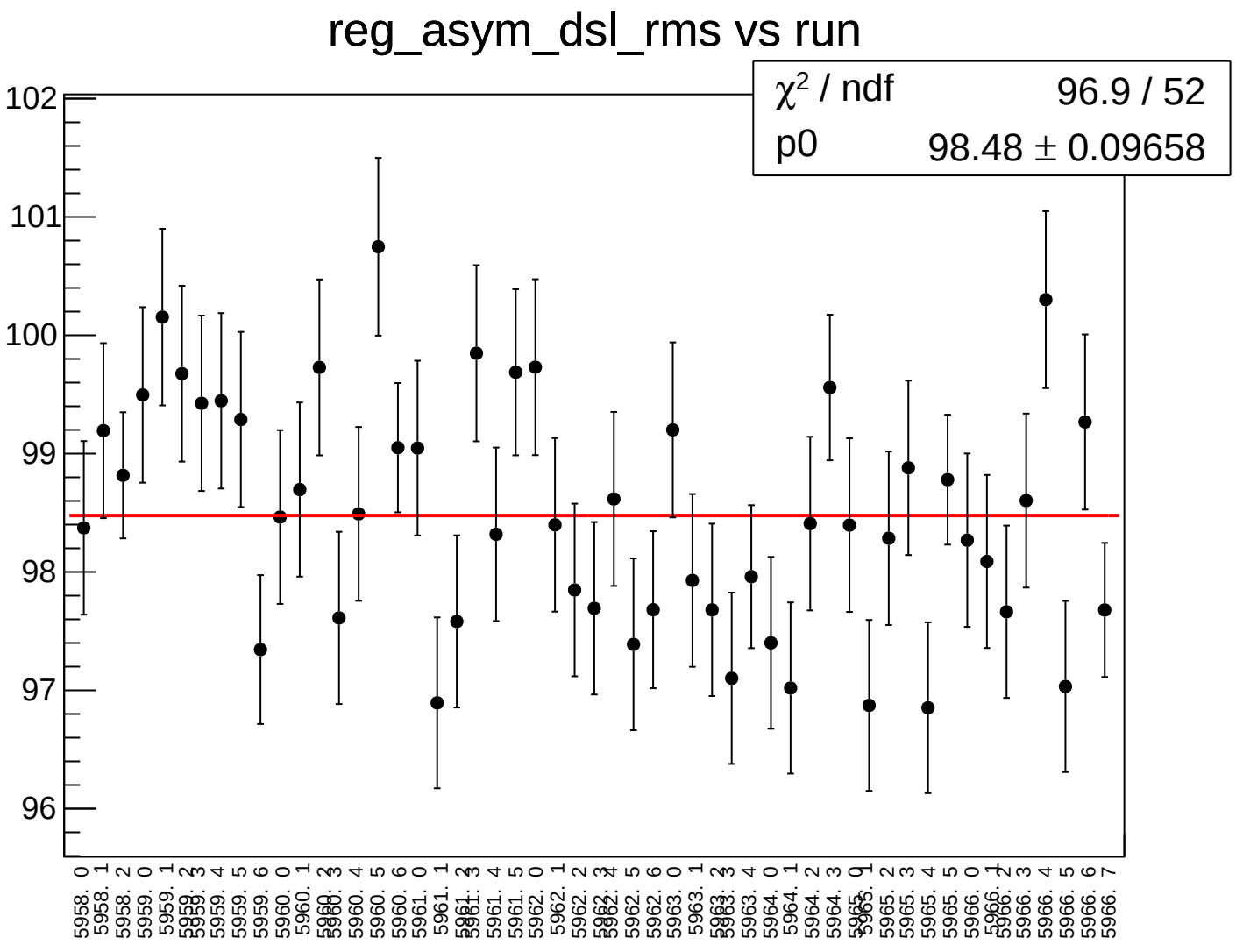

asym_usr_mean vs run
×10^3
100
80
60
40
20
0
−20
−40
−60
−80
χ² / ndf 69.85 / 52
p0 −1681 ± 3216
pull
Entries 53
Mean −195
Std Dev 219.6
2
1
0
−1
−2

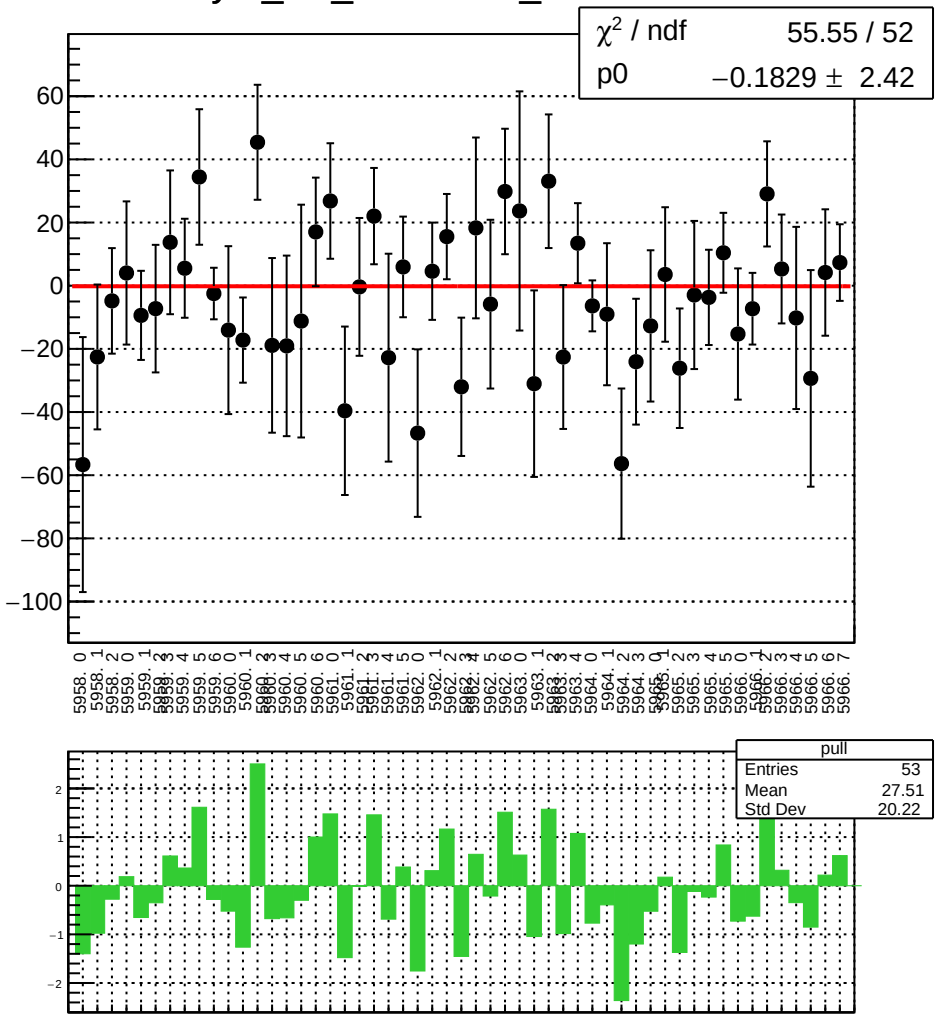

pull1D
Entries 53
Mean 0.01226
Std Dev 1.148
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

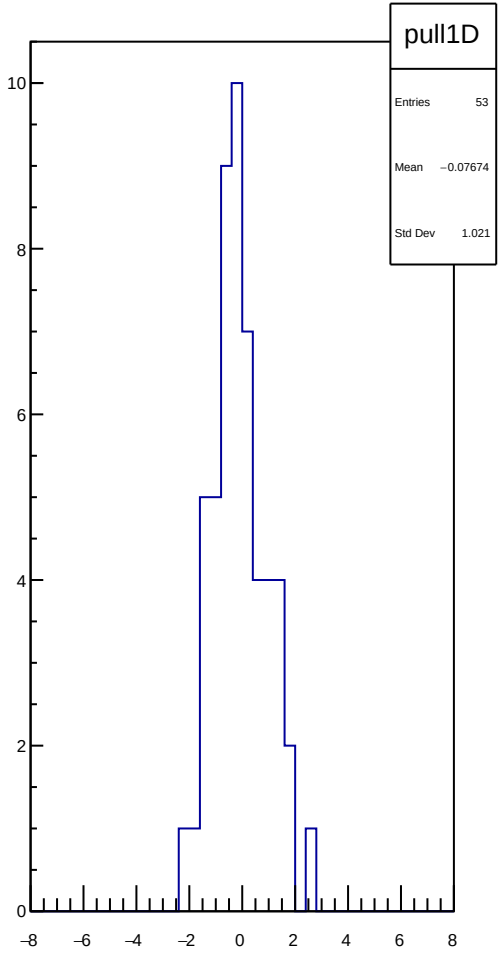

asym_usr_rms vs run
χ^2 / ndf 2100 / 52
p0 2317 ± 2.274
2600
2500
2400
2300
2200
2100
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5964. 4
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

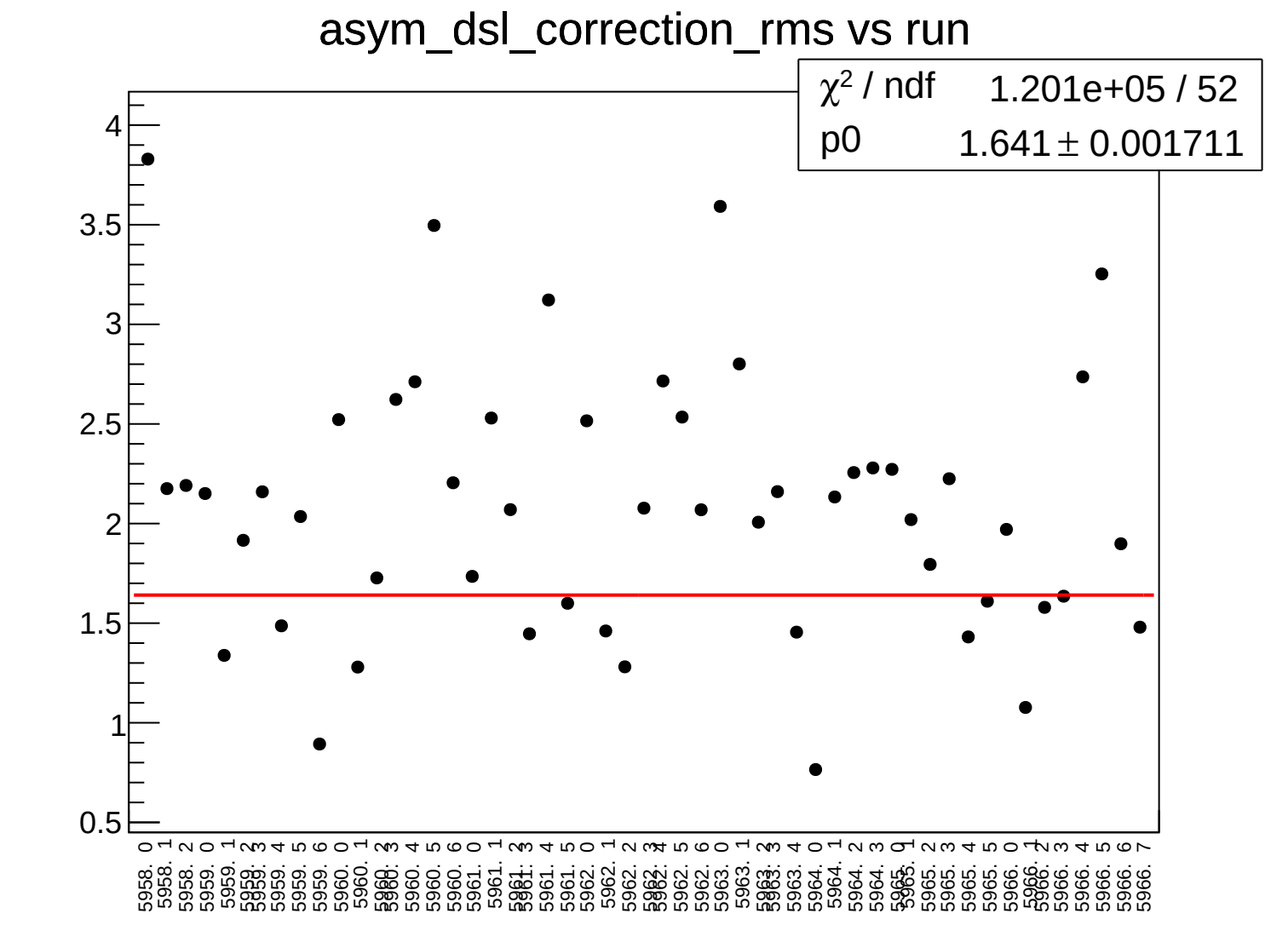

reg_asym_dsl_mean vs run
χ² / ndf 26.6 / 52
p0 251.9 ± 136.6
pull
Entries 53
Mean −148.3
Std Dev 172.8

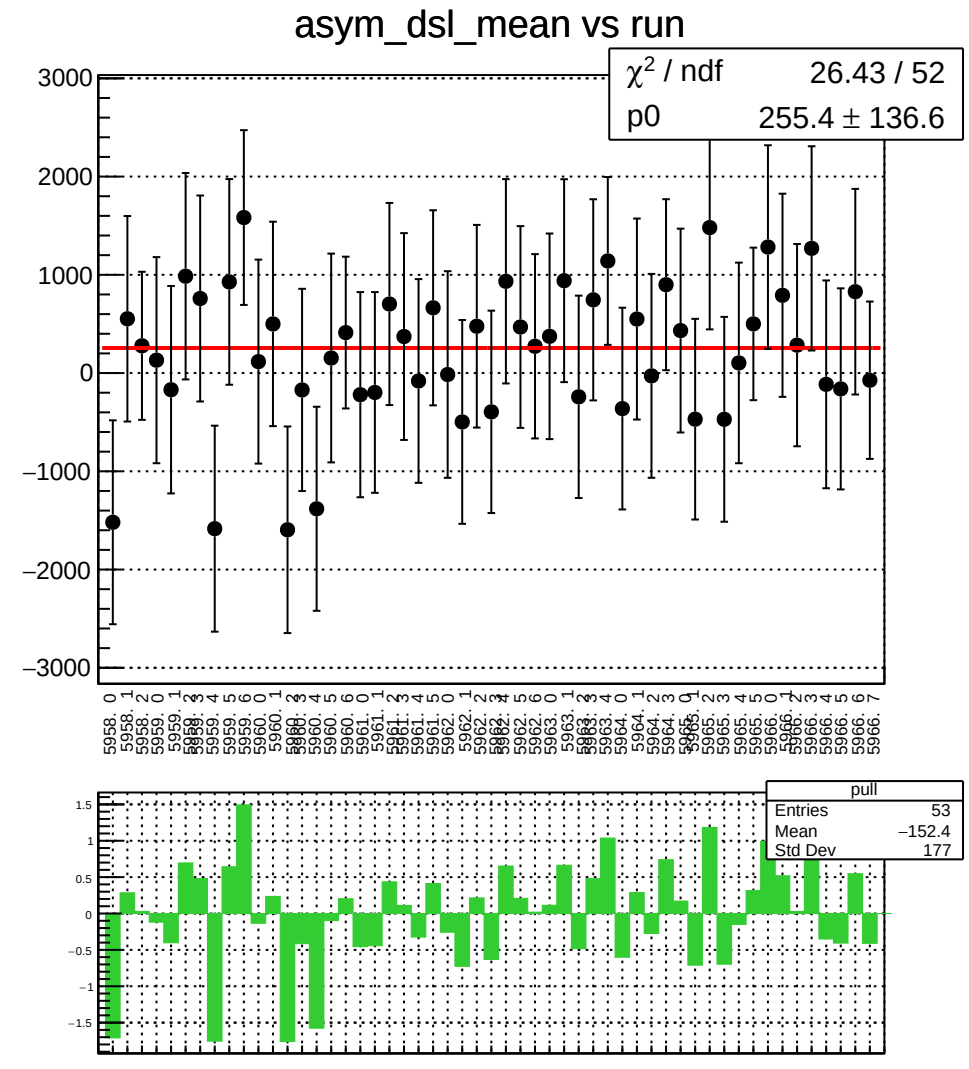

pull1D
Entries 53
Mean −0.0139
Std Dev 0.7083

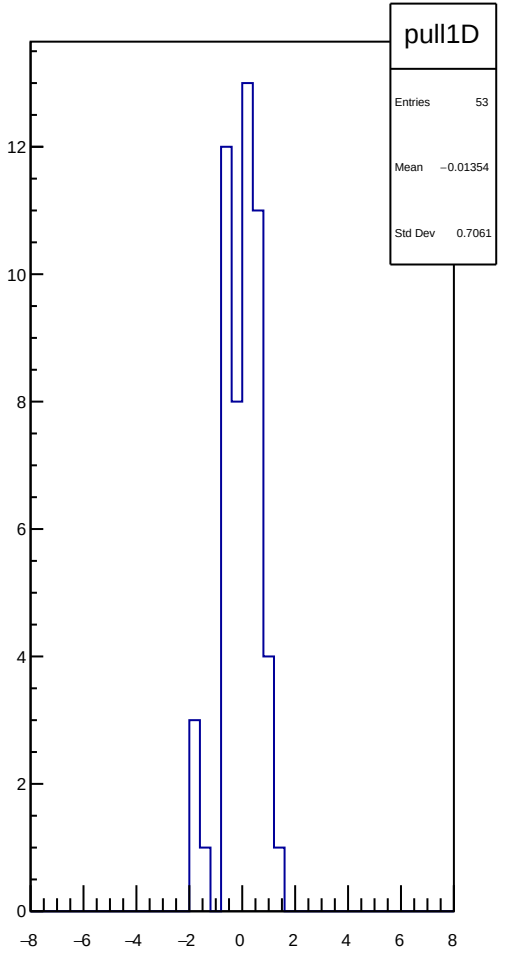

reg_asym_dsl_rms vs run
χ² / ndf 96.9 / 52
p0 98.48 ± 0.09658
102
101
100
99
98
97
96

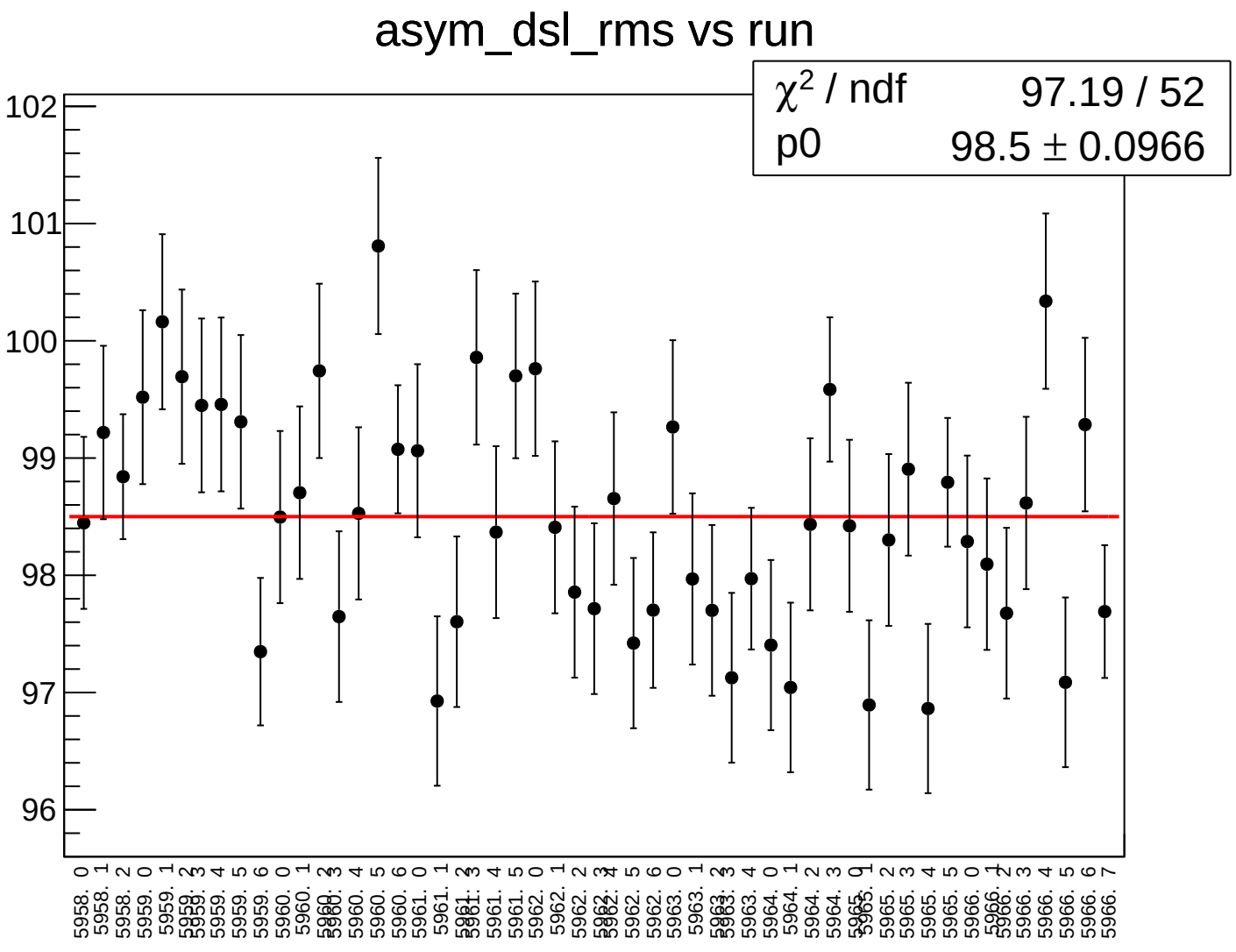

asym_dsl_correction_mean vs run
χ² / ndf 55.55 / 52
p0 −0.1829 ± 2.42
pull
Entries 53
Mean 27.51
Std Dev 20.22

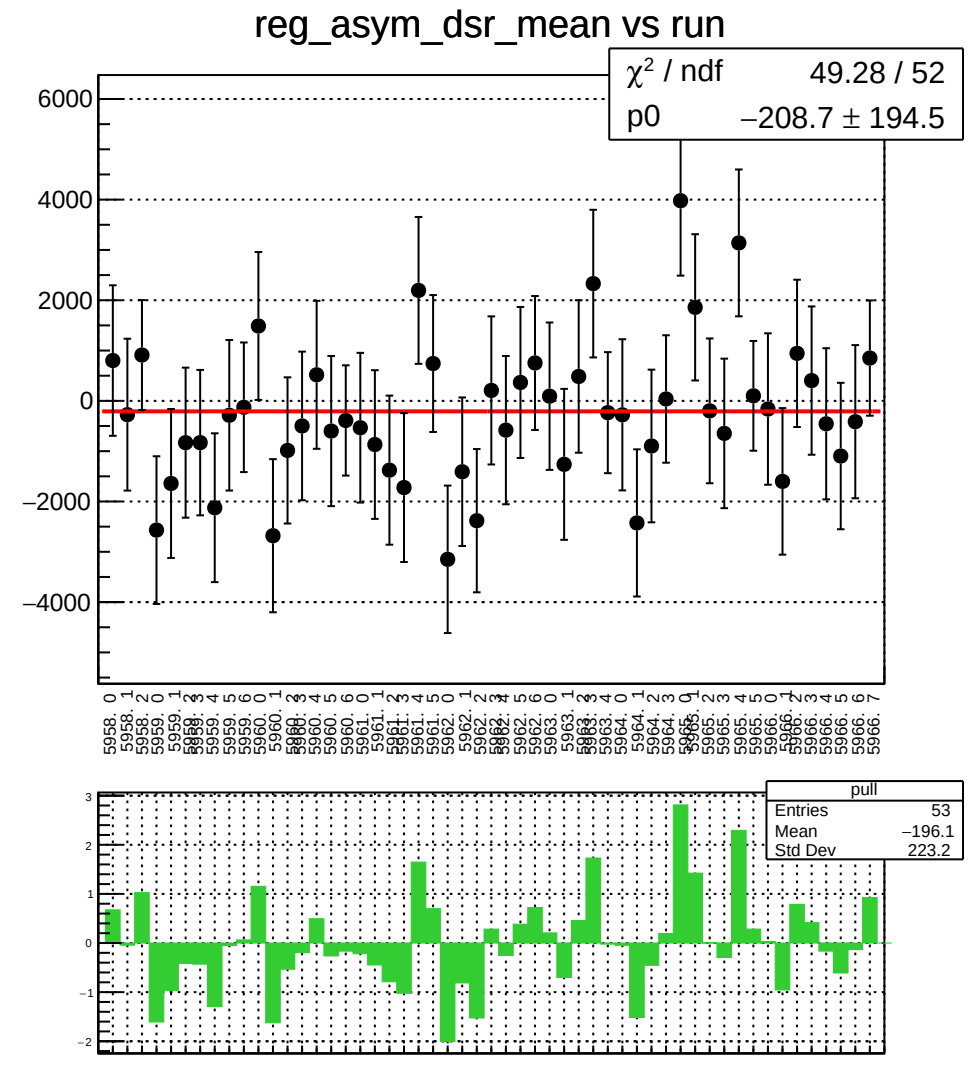

pull1D
Entries 53
Mean −0.07674
Std Dev 1.021

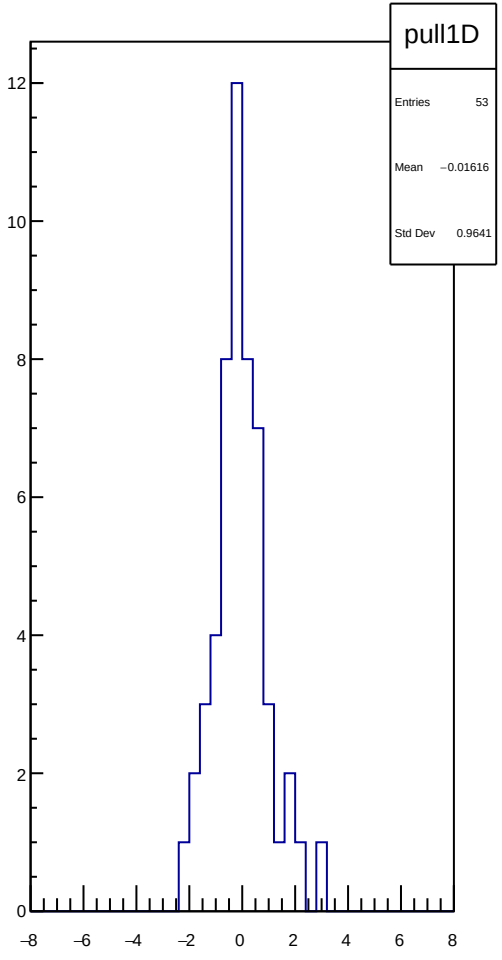

asym_dsl_correction_rms vs run
χ² / ndf 1.201e+05 / 52
p0 1.641 ± 0.001711
4
3.5
3
2.5
2
1.5
1
0.5

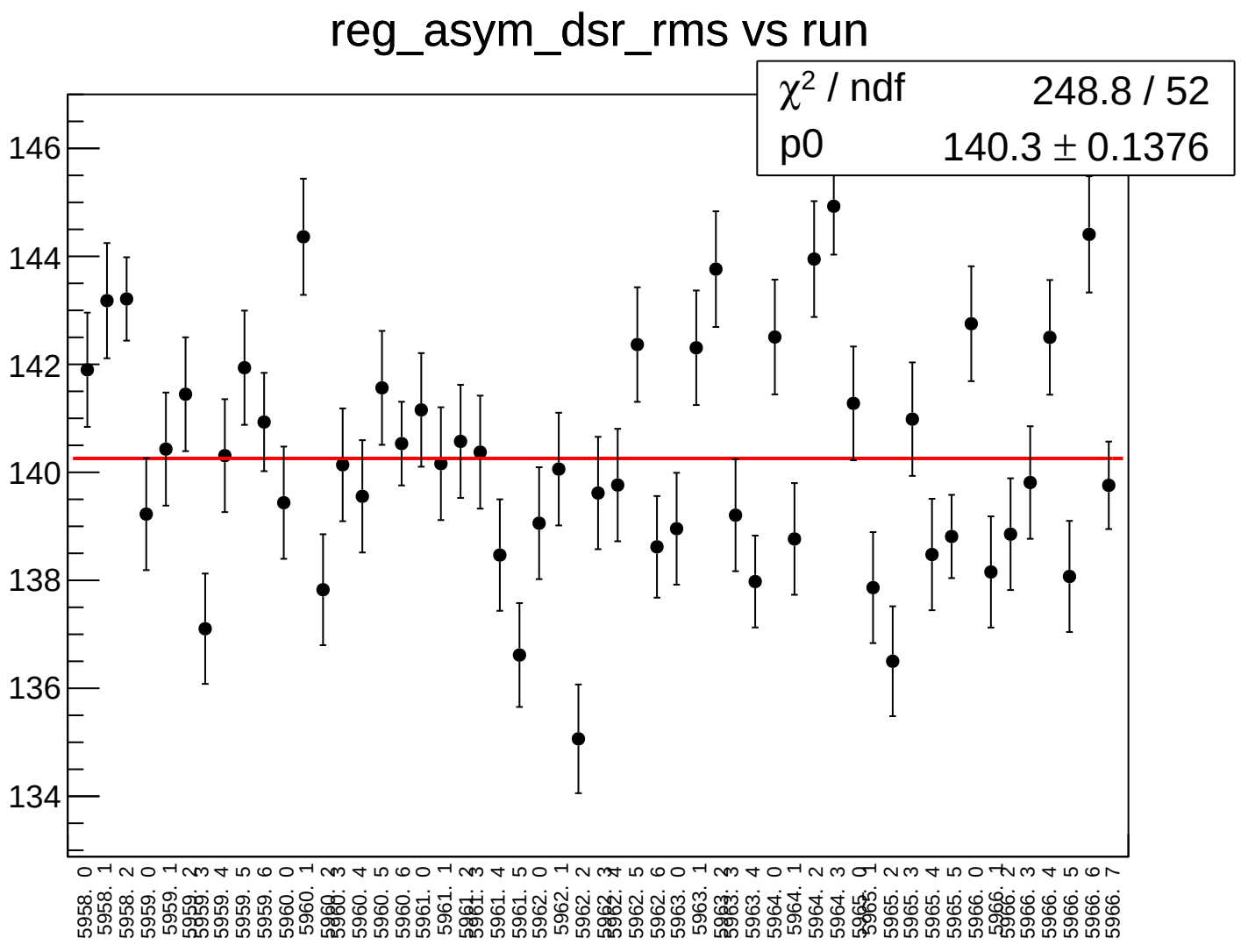

asym_dsl_mean vs run
χ² / ndf 26.43 / 52
p0 255.4 ± 136.6
pull
Entries 53
Mean −152.4
Std Dev 177


pull1D
Entries 53
Mean −0.01354
Std Dev 0.7061


asym_dsl_rms vs run
χ² / ndf 97.19 / 52
p0 98.5 ± 0.0966
102
101
100
99
98
97
96


reg_asym_dsr_mean vs run
χ² / ndf 49.28 / 52
p0 −208.7 ± 194.5
pull
Entries 53
Mean −196.1
Std Dev 223.2


pull1D
Entries 53
Mean −0.01616
Std Dev 0.9641


reg_asym_dsr_rms vs run
χ² / ndf 248.8 / 52
p0 140.3 ± 0.1376
146
144
142
140
138
136
134
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
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5961. 5
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5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
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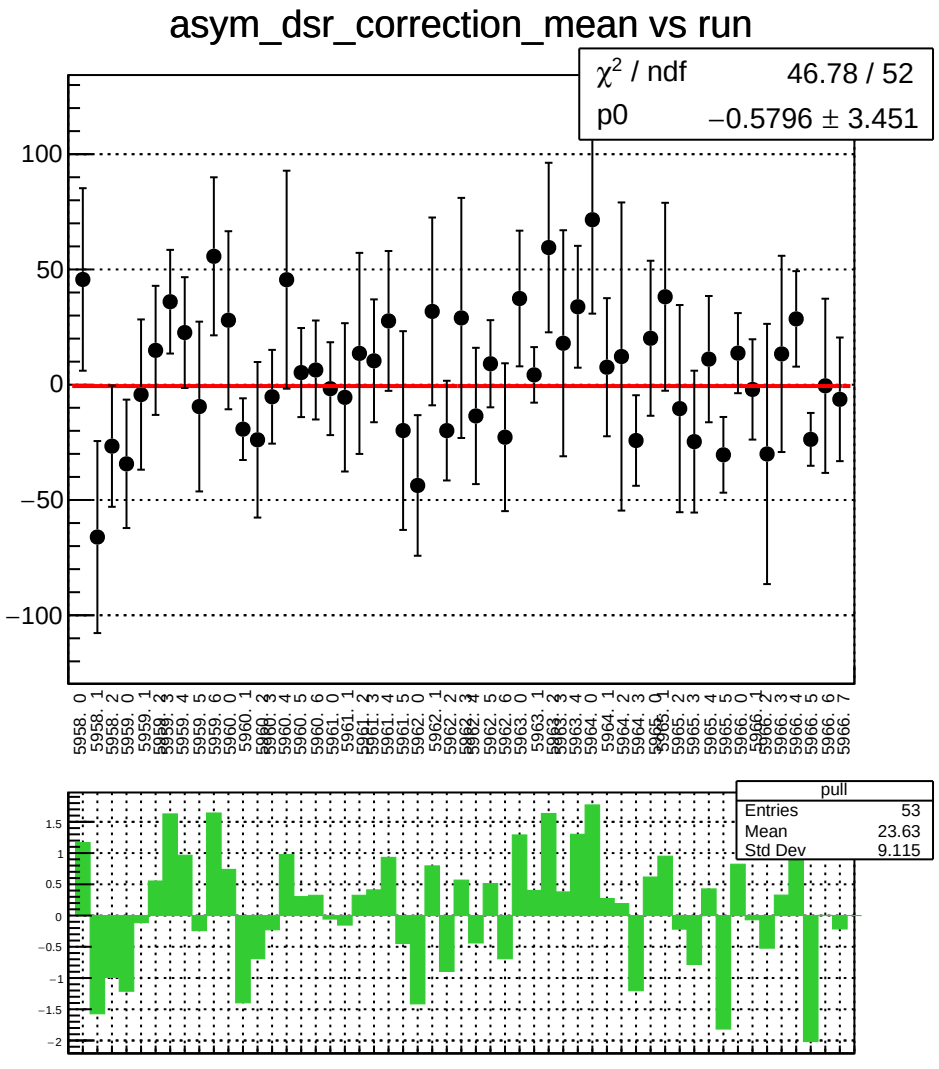
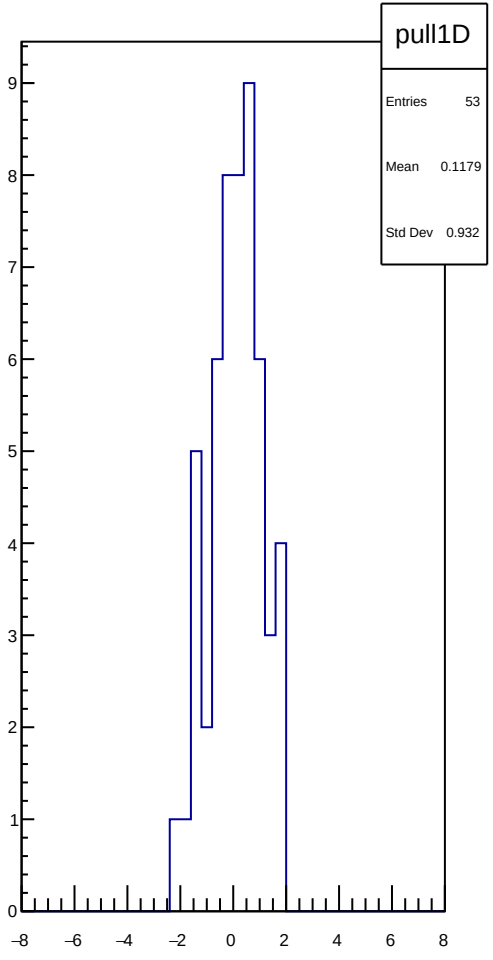
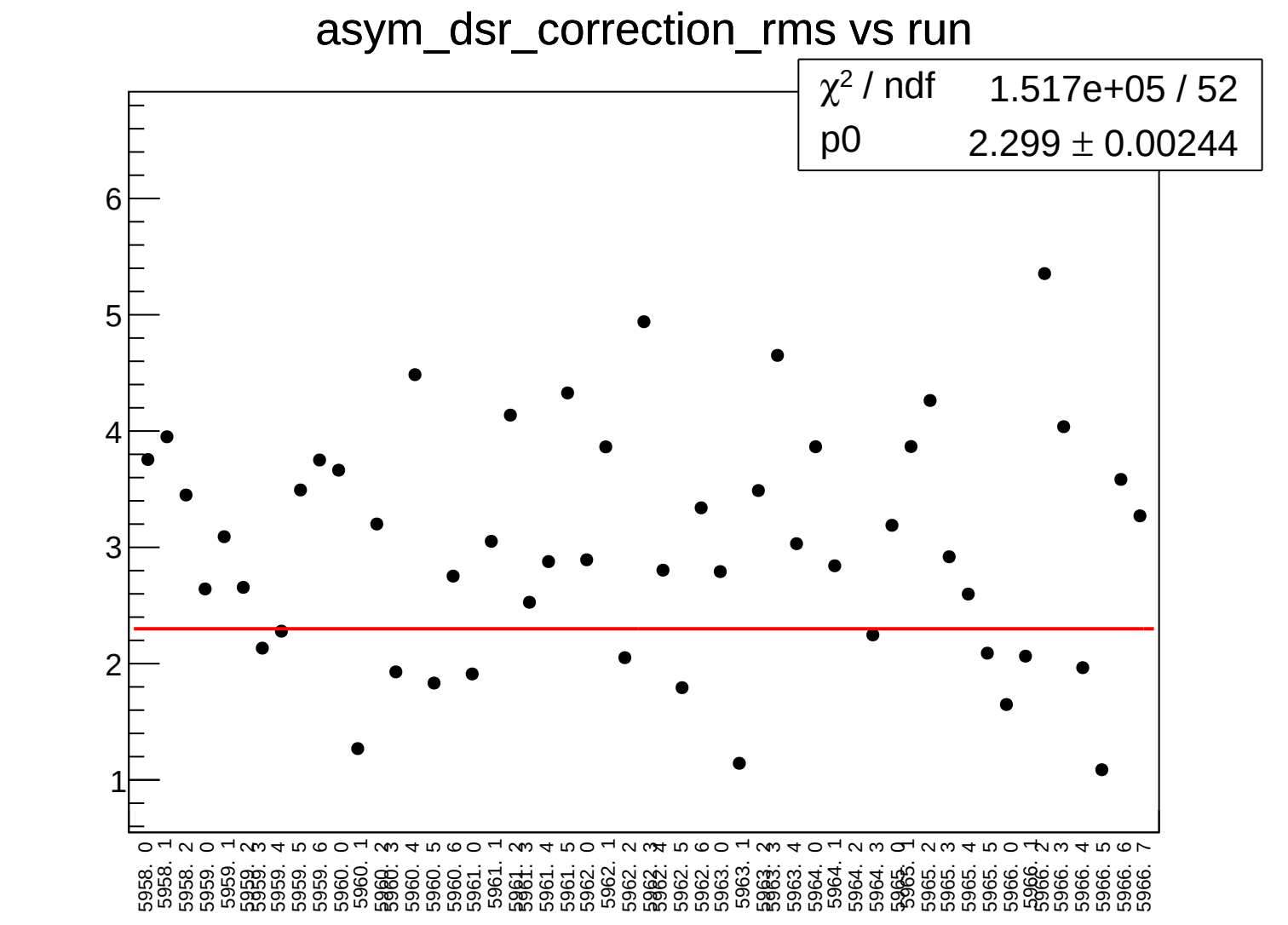
5964. 2
5964. 3
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7


asym_dsr_correction_mean vs run
χ² / ndf 46.78 / 52
p0 −0.5796 ± 3.451
pull
Entries 53
Mean 23.63
Std Dev 9.115


pull1D
Entries 53
Mean 0.1179
Std Dev 0.932


asym_dsr_correction_rms vs run
χ² / ndf 1.517e+05 / 52
p0 2.299 ± 0.00244
6
5
4
3
2
1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
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5962. 5
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5965. 4
5965. 5
5966. 0
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5966. 3
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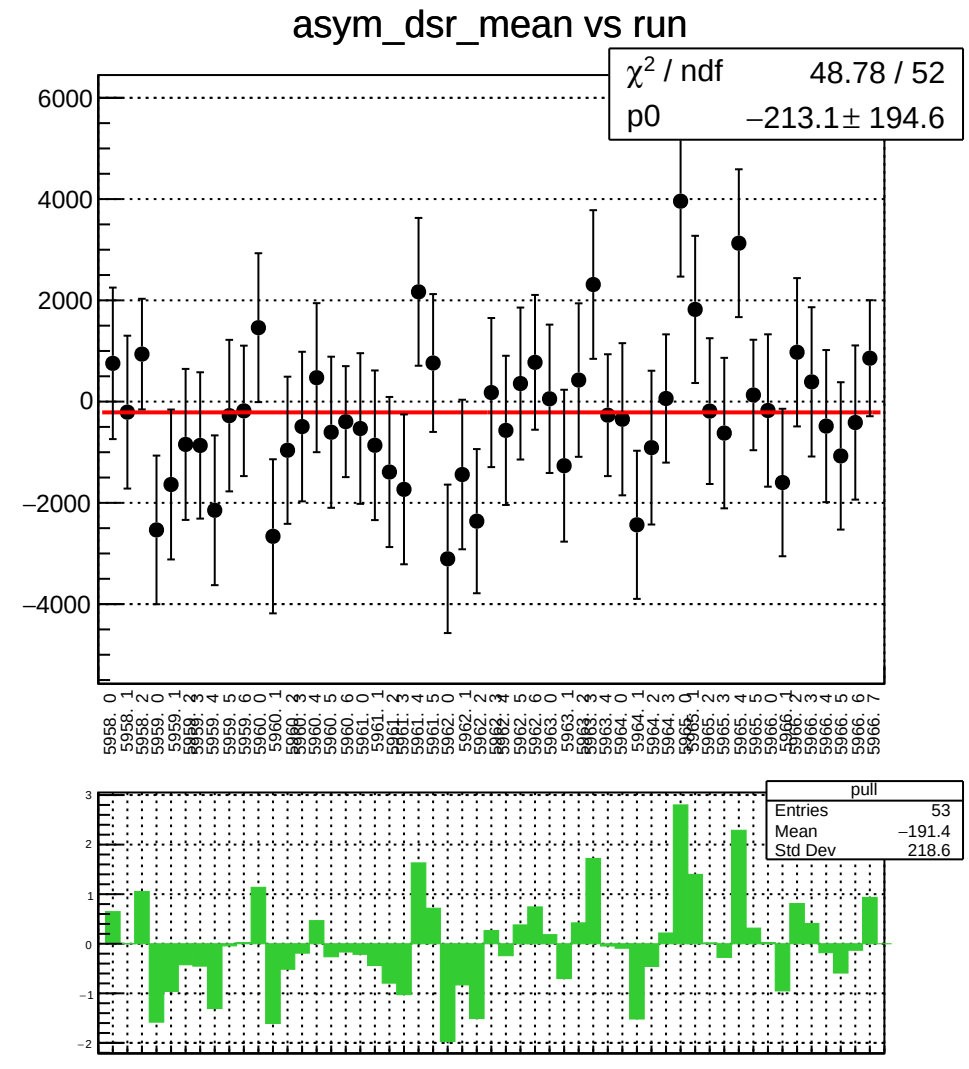
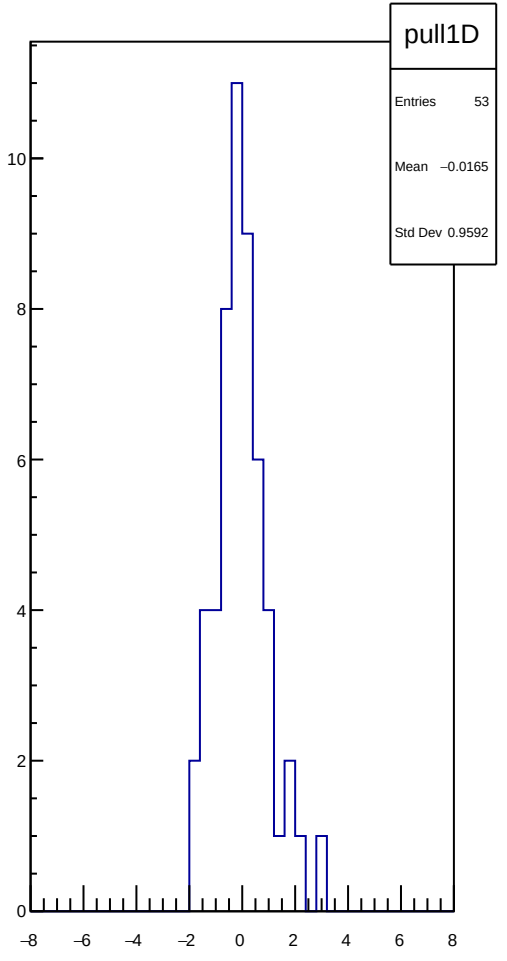
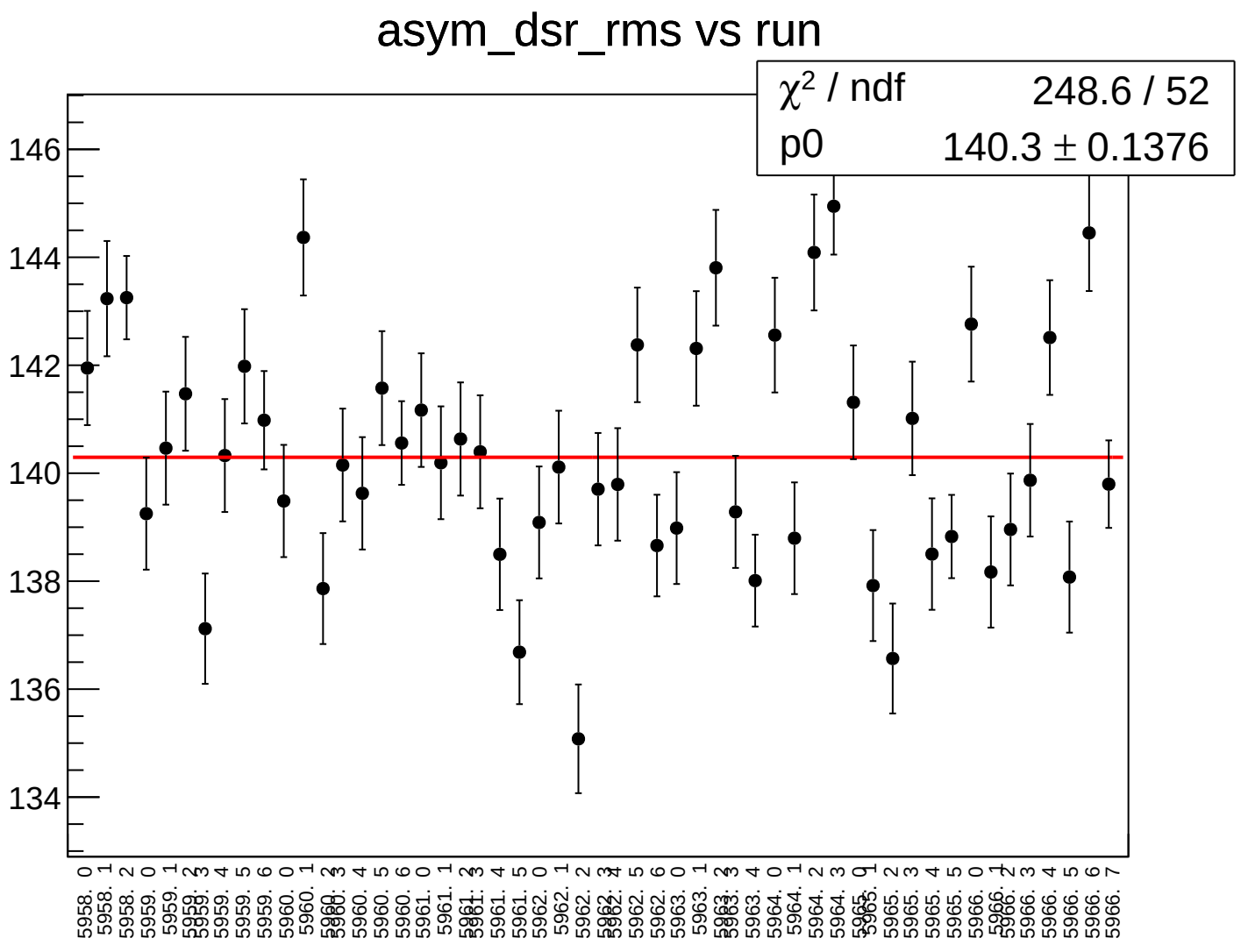
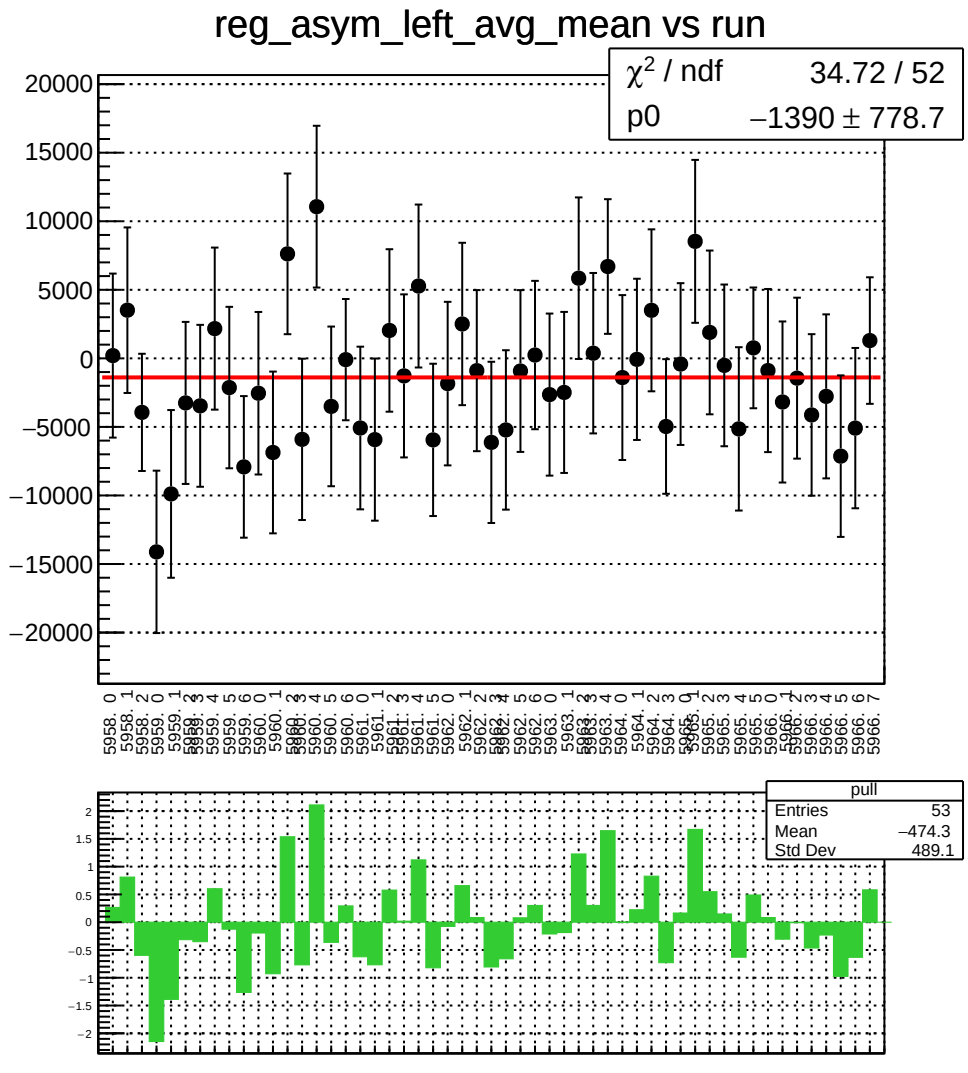
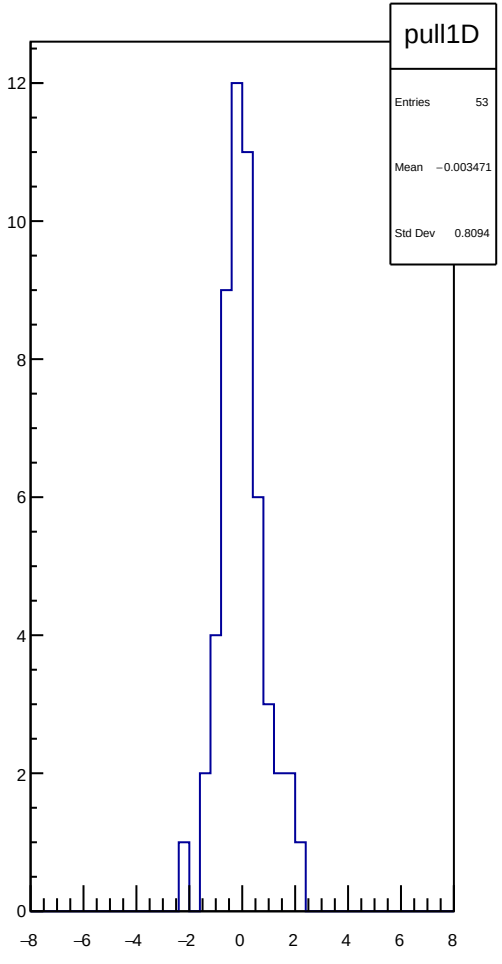
5966. 5
5966. 6
5966. 7

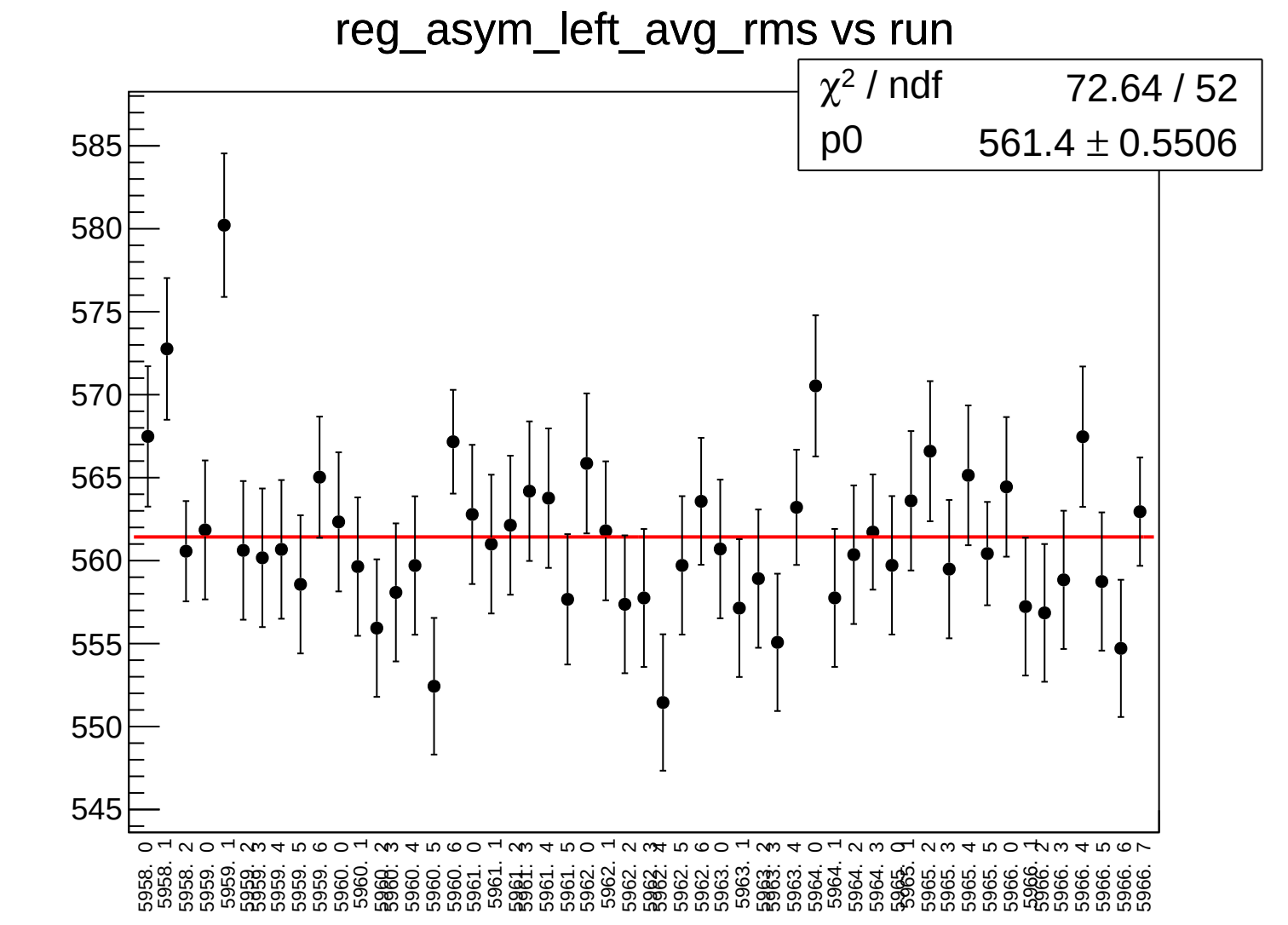

asym_dsr_mean vs run
χ² / ndf 48.78 / 52
p0 −213.1± 194.6
6000
4000
2000
0
−2000
−4000
pull
Entries 53
Mean −191.4
Std Dev 218.6
3
2
1
0
−1
−2

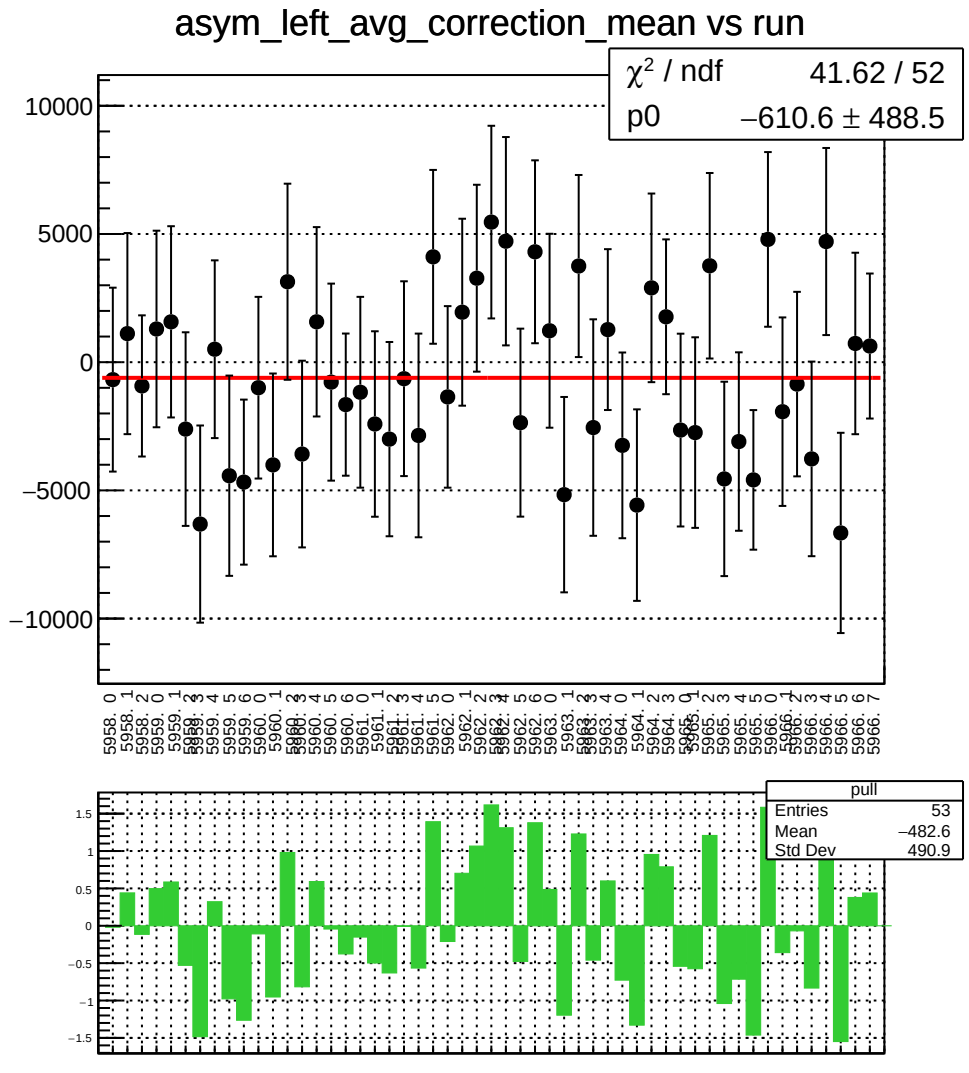

pull1D
Entries 53
Mean −0.0165
Std Dev 0.9592
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

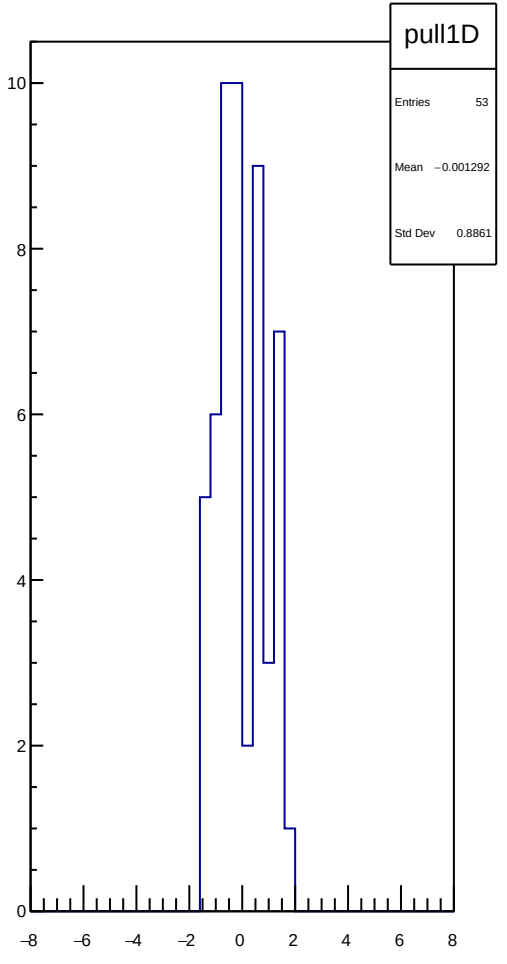

asym_dsr_rms vs run
χ^2 / ndf 248.6 / 52
p0 140.3 ± 0.1376
146
144
142
140
138
136
134
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

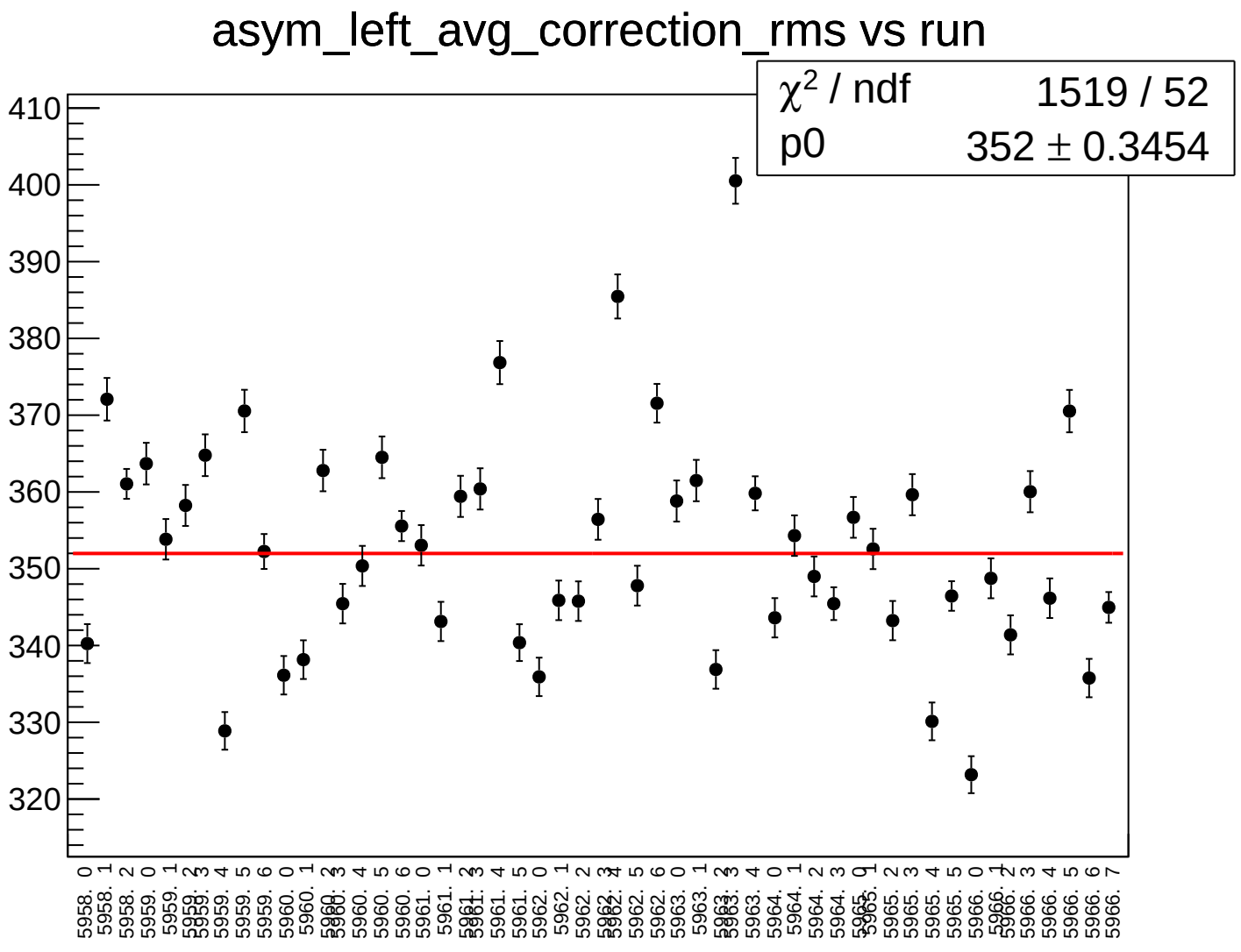

reg_asym_left_avg_mean vs run
χ² / ndf 34.72 / 52
p0 −1390 ± 778.7
pull
Entries 53
Mean −474.3
Std Dev 489.1

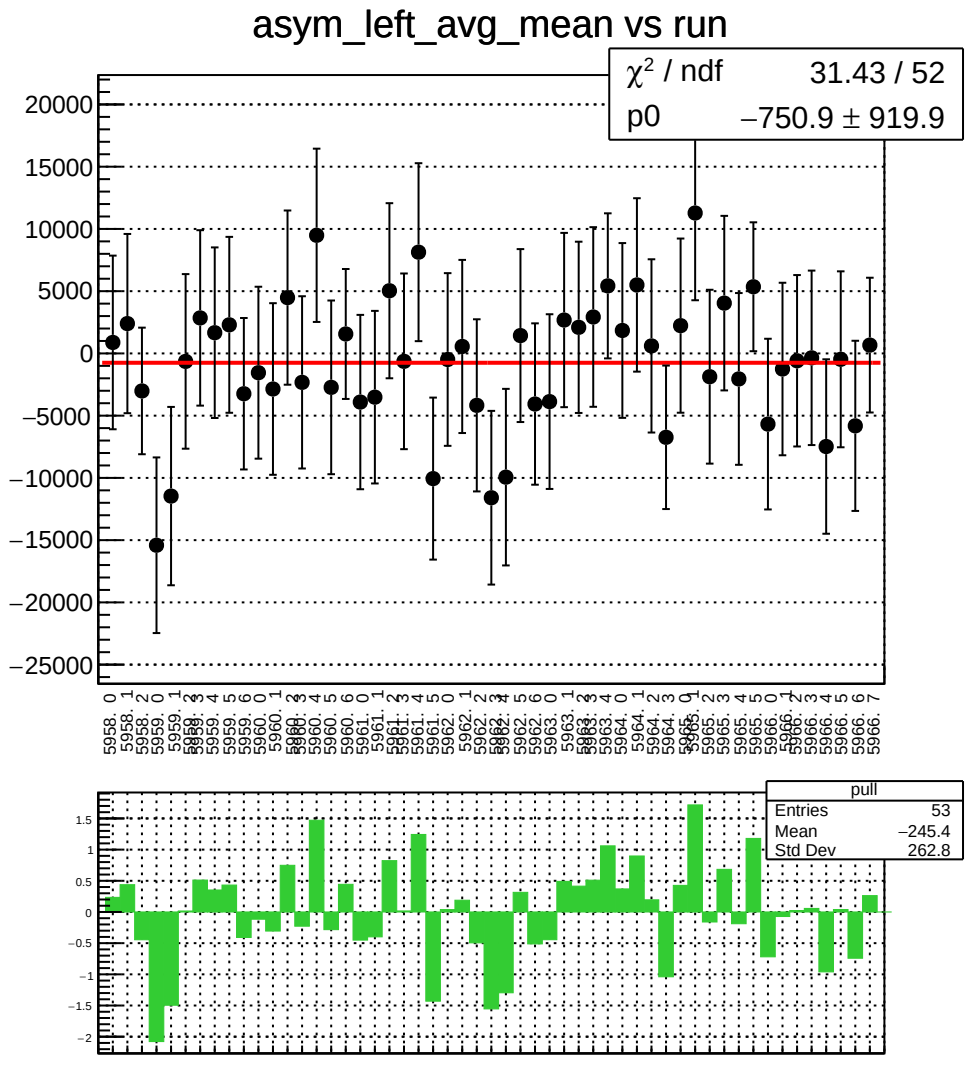

pull1D
Entries 53
Mean −0.003471
Std Dev 0.8094

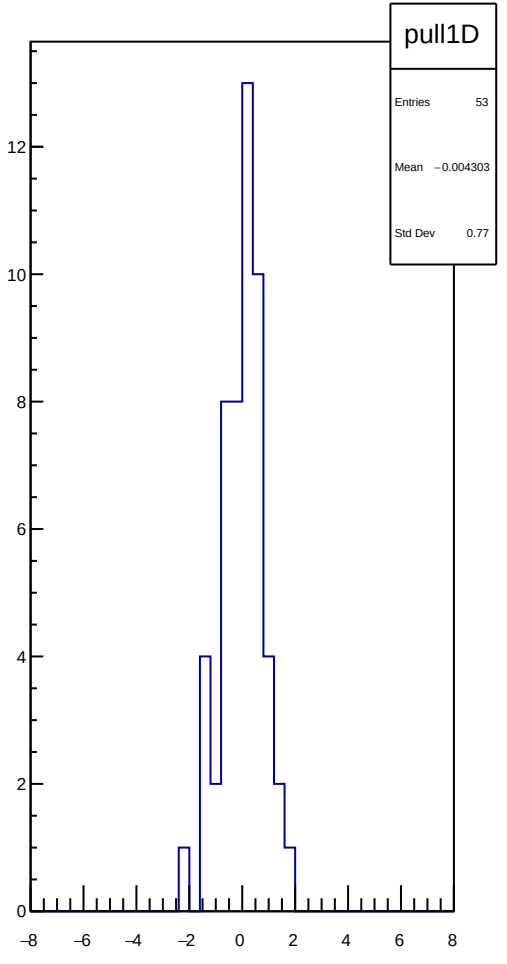

reg_asym_left_avg_rms vs run
χ² / ndf 72.64 / 52
p0 561.4 ± 0.5506
585
580
575
570
565
560
555
550
545

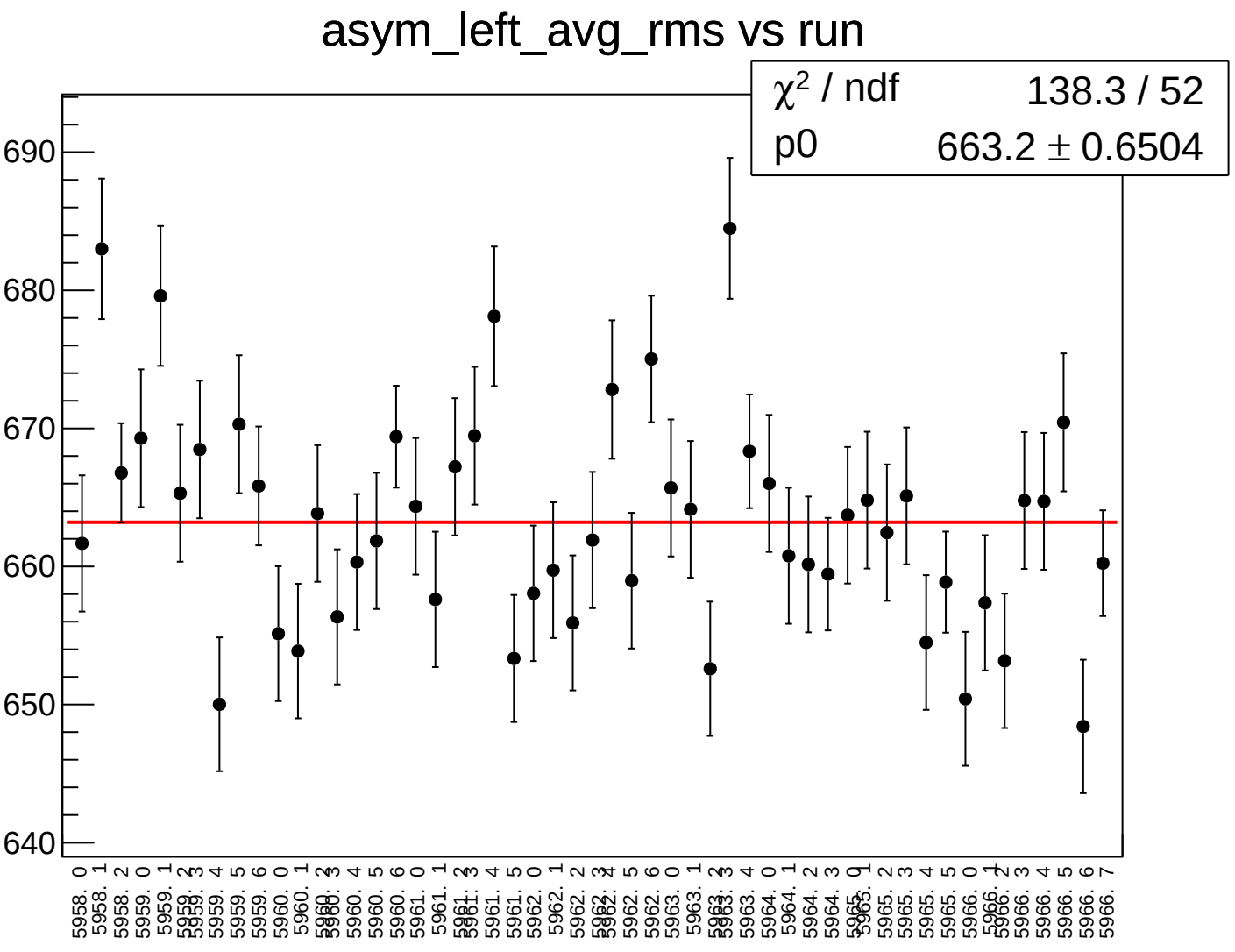

asym_left_avg_correction_mean vs run
χ² / ndf 41.62 / 52
p0 −610.6 ± 488.5
10000
5000
0
−5000
−10000
pull
Entries 53
Mean −482.6
Std Dev 490.9
1.5
1
0.5
0
−0.5
−1
−1.5

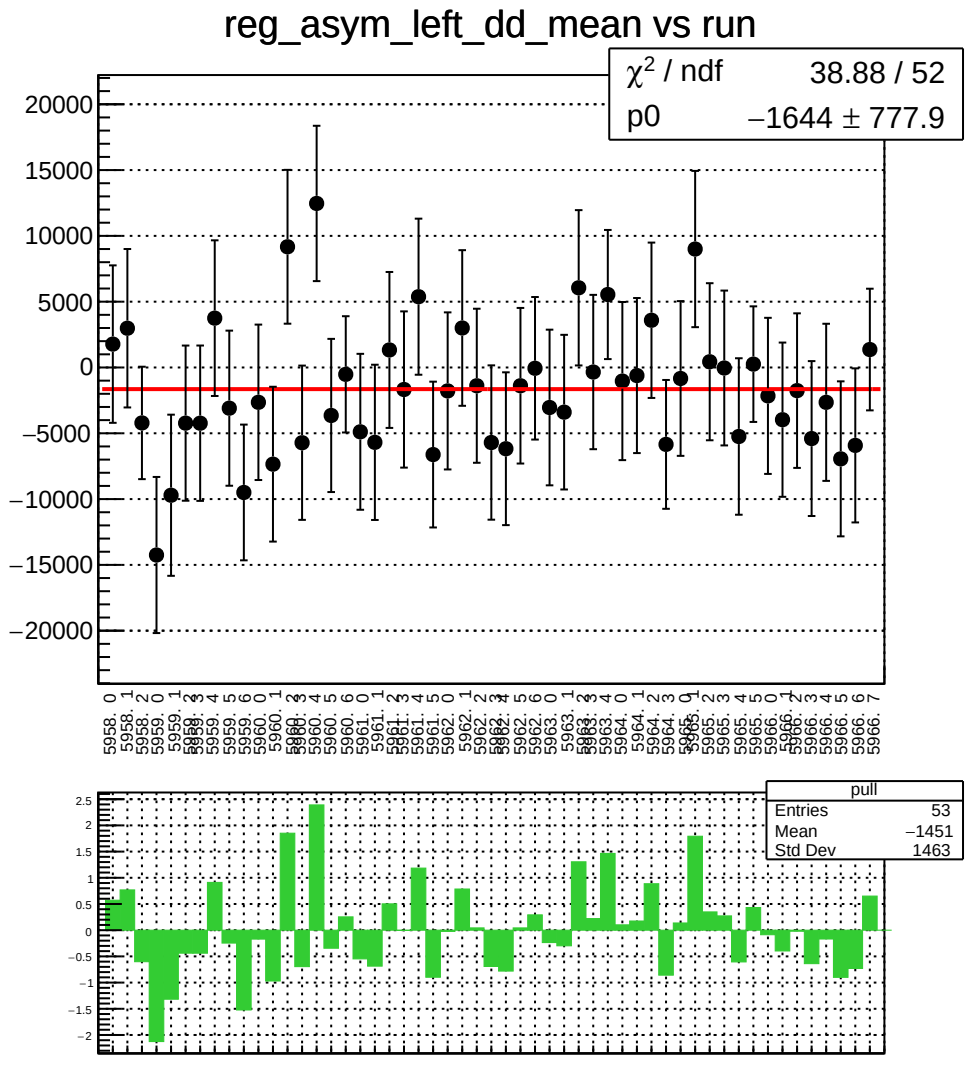

pull1D
Entries 53
Mean −0.001292
Std Dev 0.8861
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

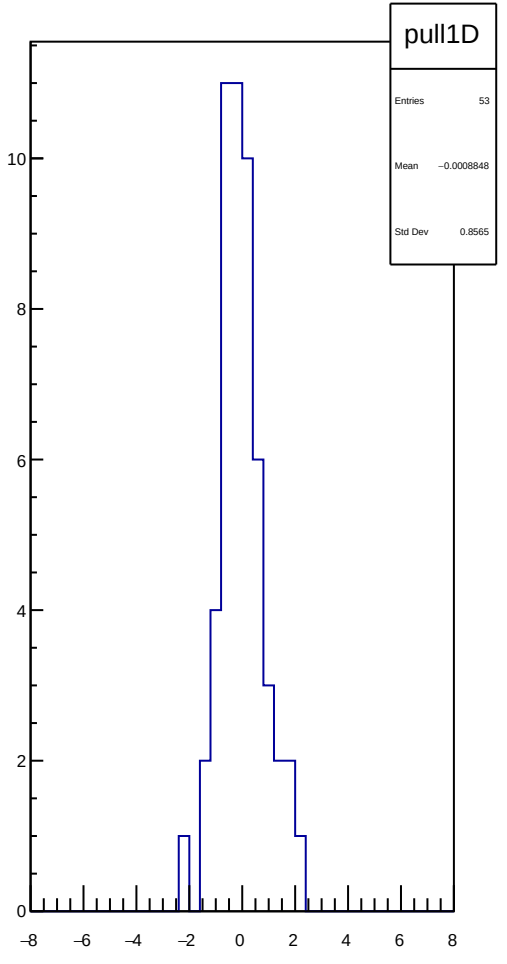

asym_left_avg_correction_rms vs run
χ² / ndf 1519 / 52
p0 352 ± 0.3454
410
400
390
380
370
360
350
340
330
320

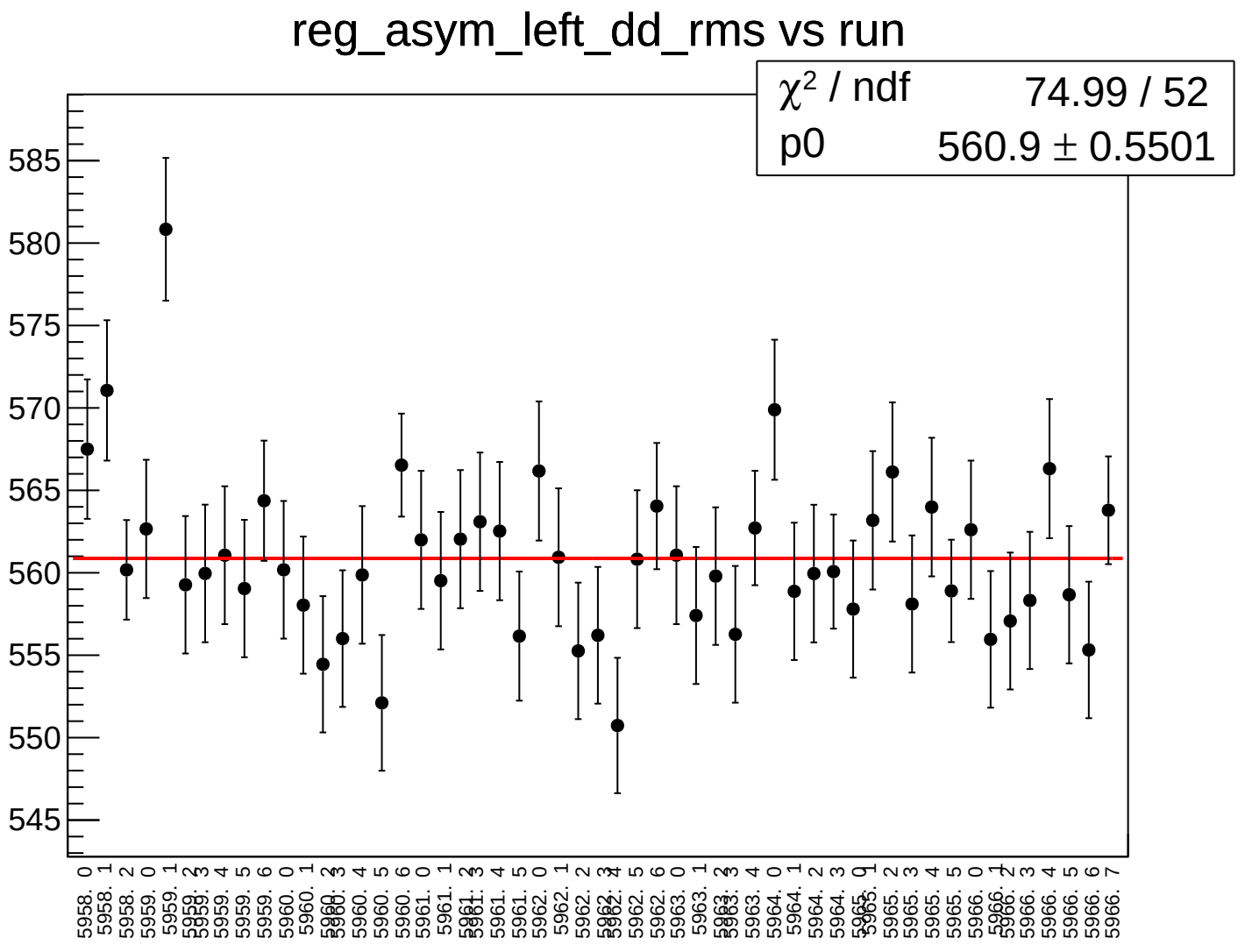

asym_left_avg_mean vs run
χ² / ndf 31.43 / 52
p0 −750.9 ± 919.9
pull
Entries 53
Mean −245.4
Std Dev 262.8

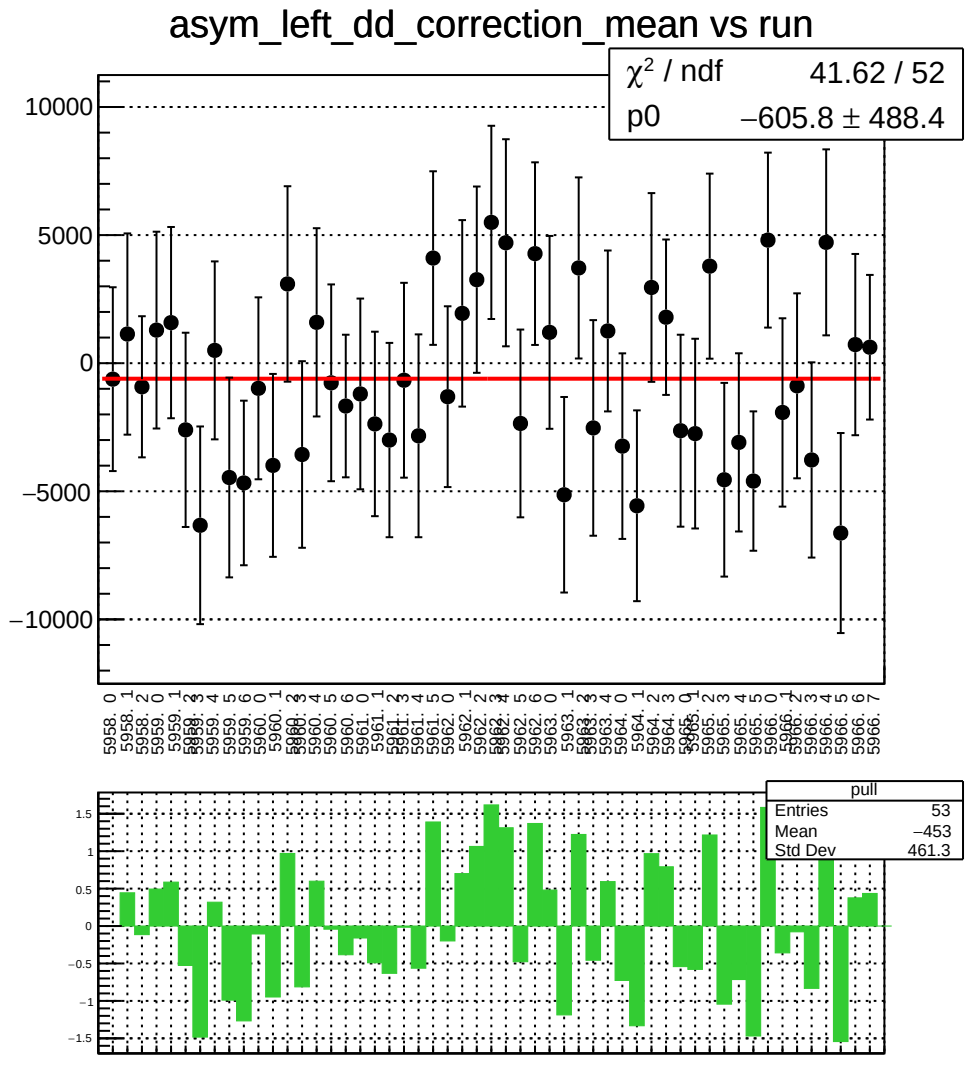

pull1D
Entries 53
Mean −0.004303
Std Dev 0.77

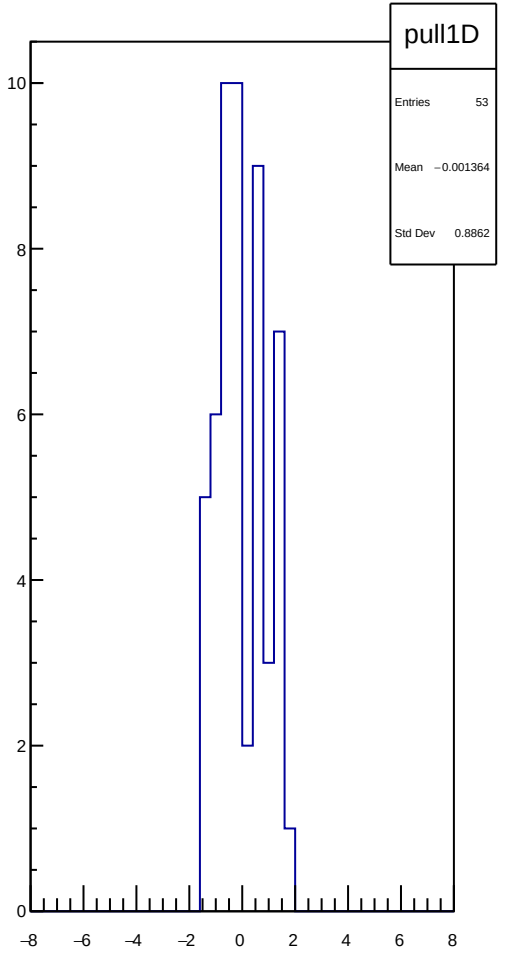

asym_left_avg_rms vs run
χ² / ndf 138.3 / 52
p0 663.2 ± 0.6504
690
680
670
660
650
640
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

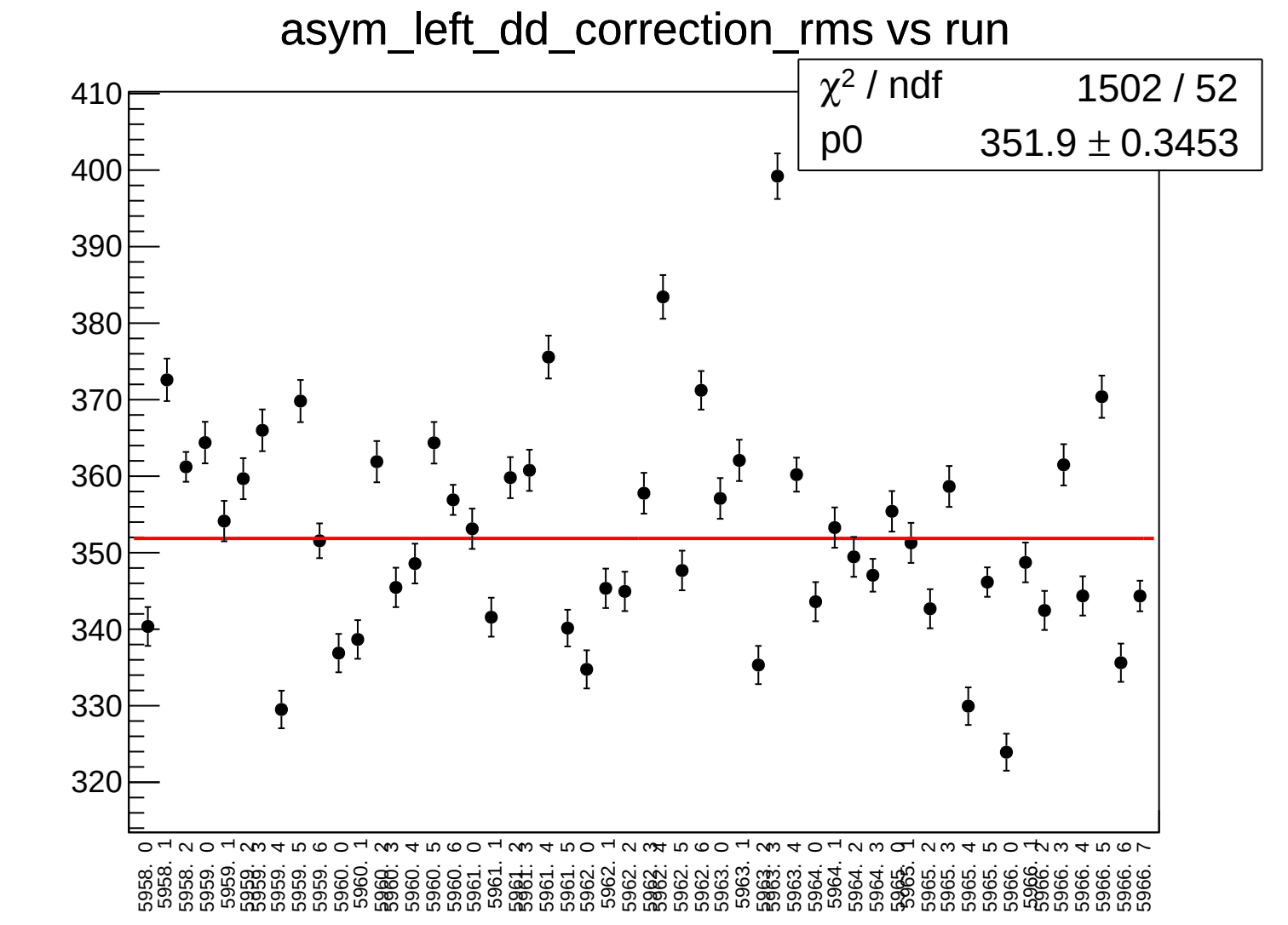

reg_asym_left_dd_mean vs run
χ² / ndf 38.88 / 52
p0 −1644 ± 777.9
pull
Entries 53
Mean −1451
Std Dev 1463

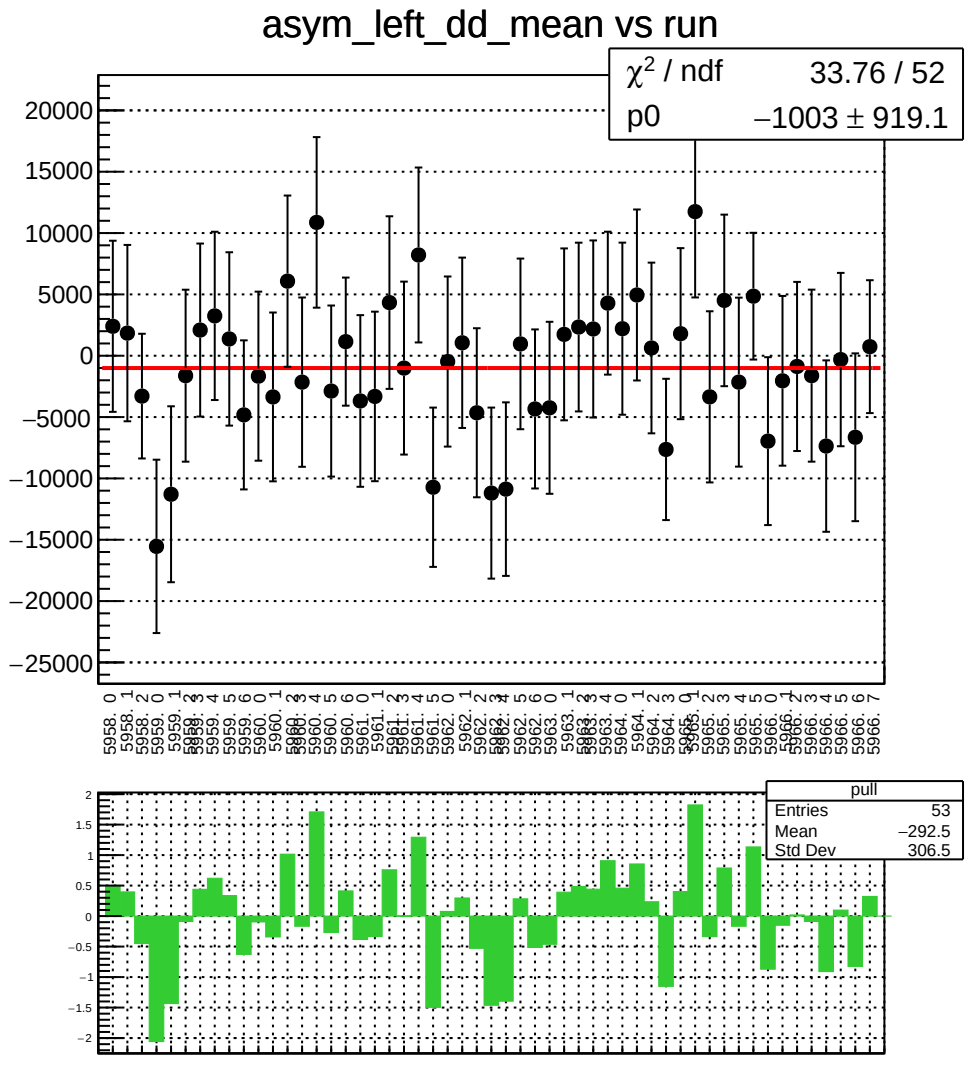

pull1D
Entries 53
Mean −0.0008848
Std Dev 0.8565

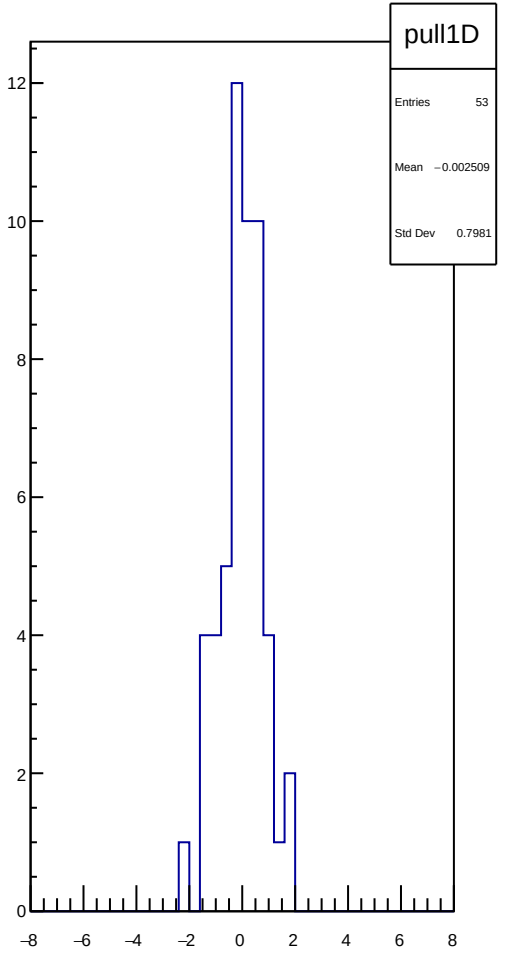

reg_asym_left_dd_rms vs run
χ² / ndf 74.99 / 52
p0 560.9 ± 0.5501
585
580
575
570
565
560
555
550
545

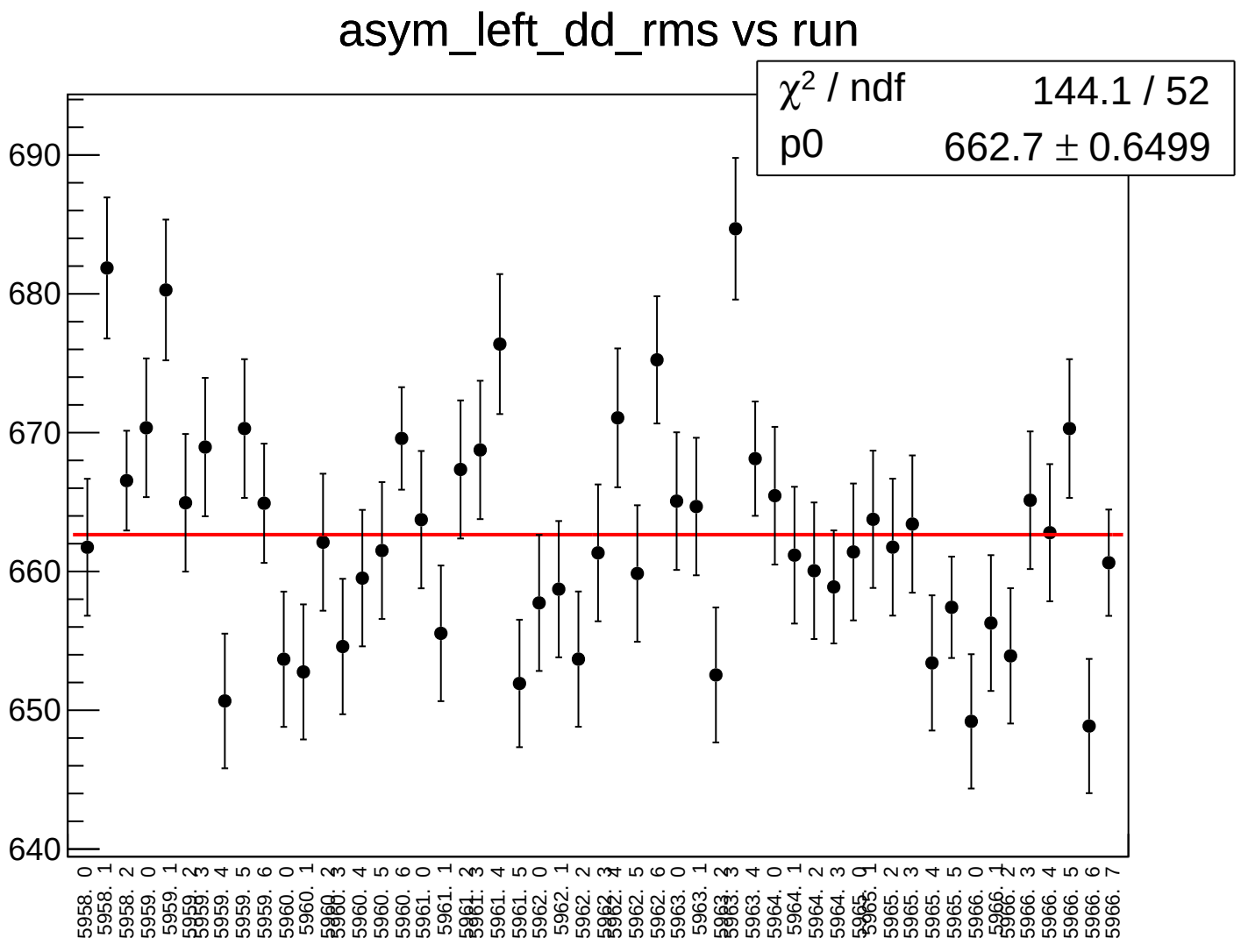

asym_left_dd_correction_mean vs run
χ² / ndf 41.62 / 52
p0 −605.8 ± 488.4
10000
5000
0
−5000
−10000
pull
Entries 53
Mean −453
Std Dev 461.3
1.5
1
0.5
0
−0.5
−1
−1.5

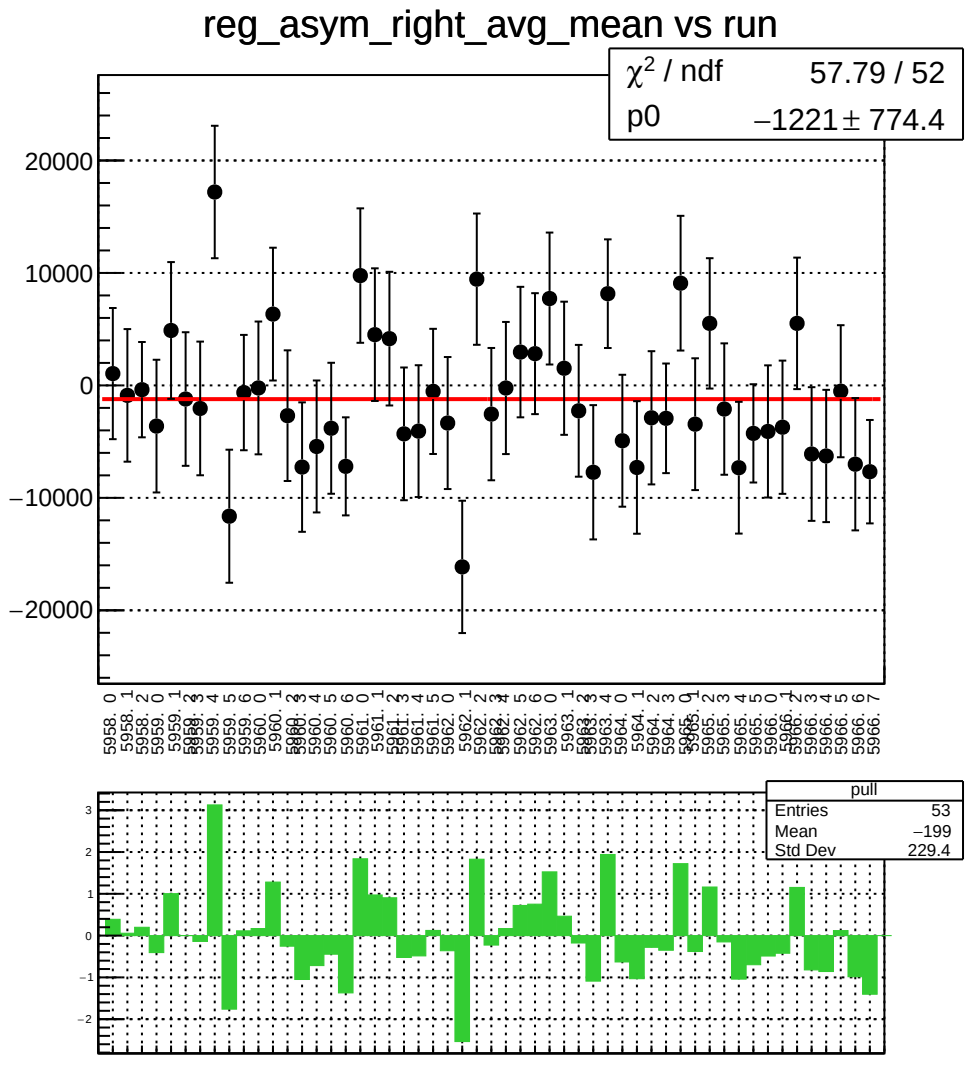

pull1D
Entries 53
Mean −0.001364
Std Dev 0.8862
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

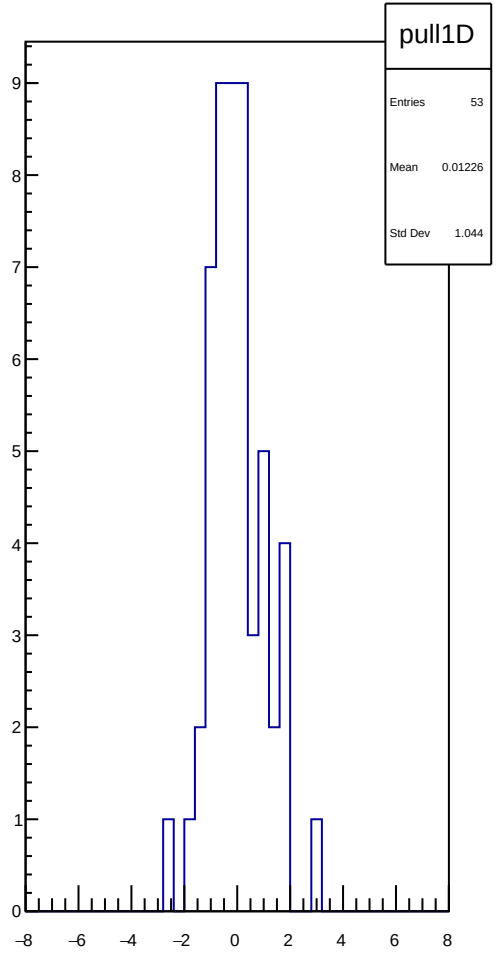

asym_left_dd_correction_rms vs run
χ² / ndf 1502 / 52
p0 351.9 ± 0.3453
410
400
390
380
370
360
350
340
330
320

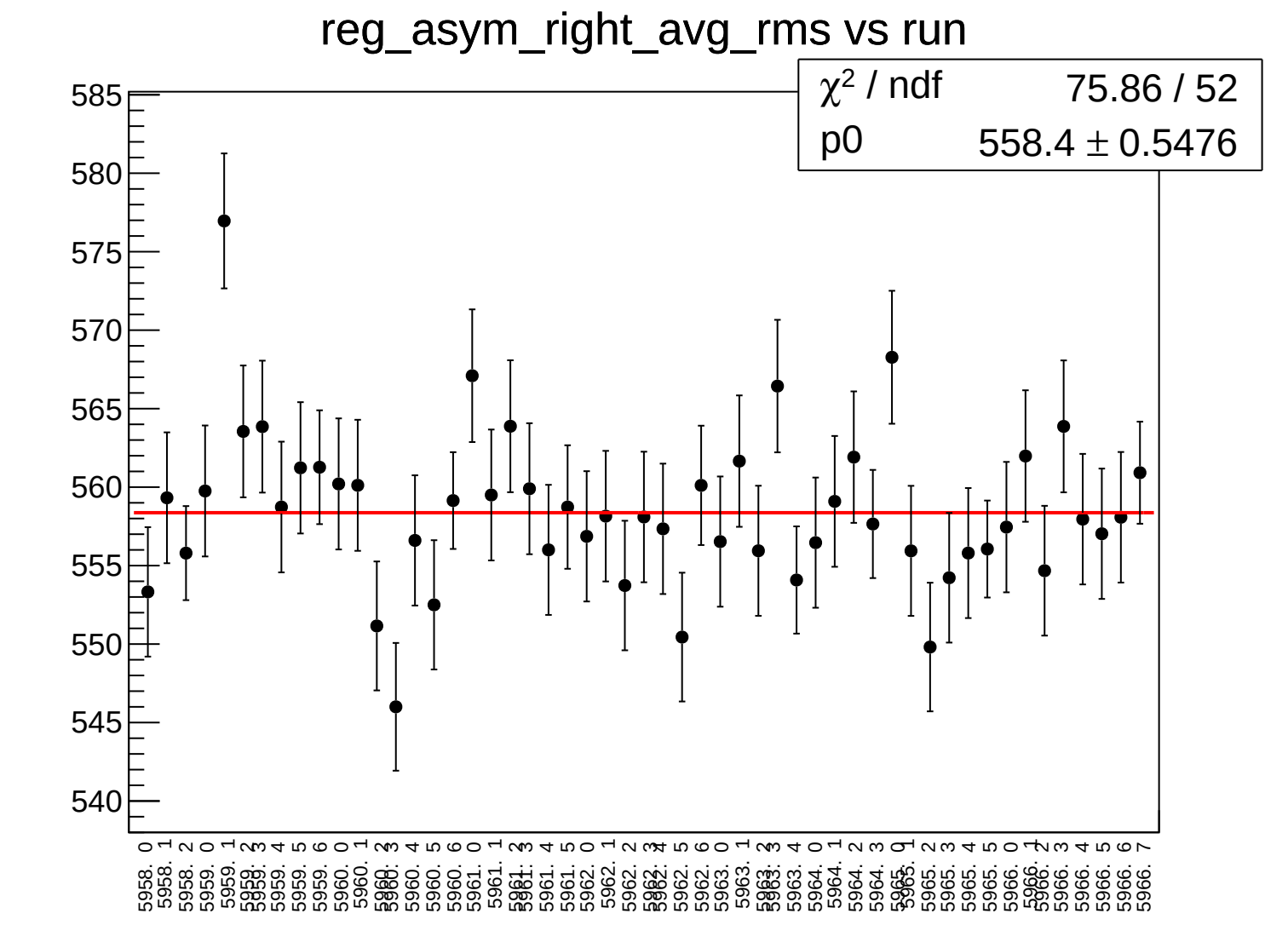

asym_left_dd_mean vs run
χ² / ndf 33.76 / 52
p0 −1003 ± 919.1
pull
Entries 53
Mean −292.5
Std Dev 306.5

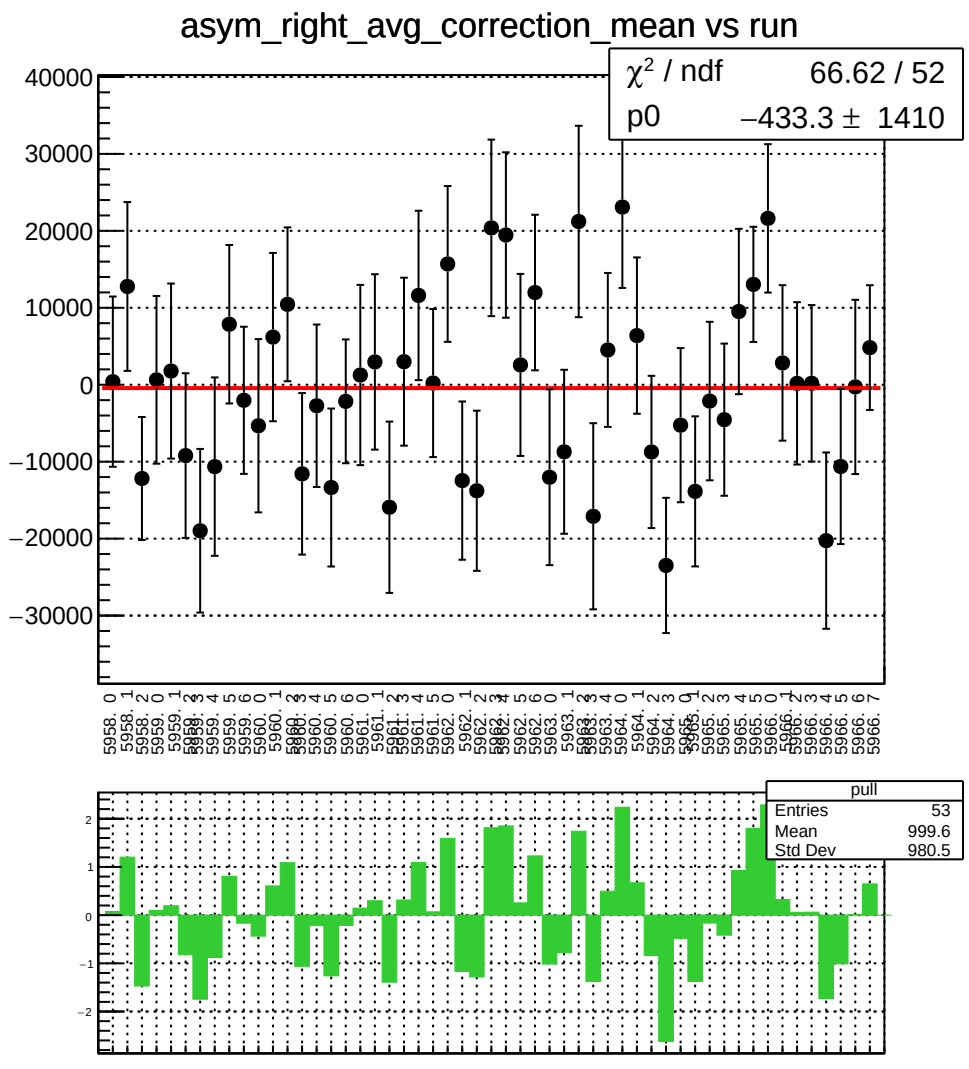

pull1D
Entries 53
Mean −0.002509
Std Dev 0.7981

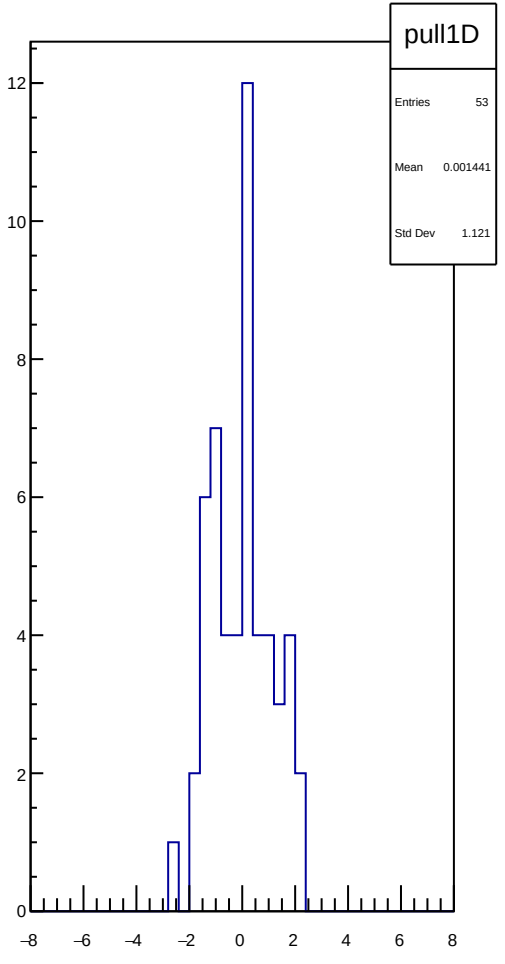

asym_left_dd_rms vs run
χ² / ndf 144.1 / 52
p0 662.7 ± 0.6499
690
680
670
660
650
640

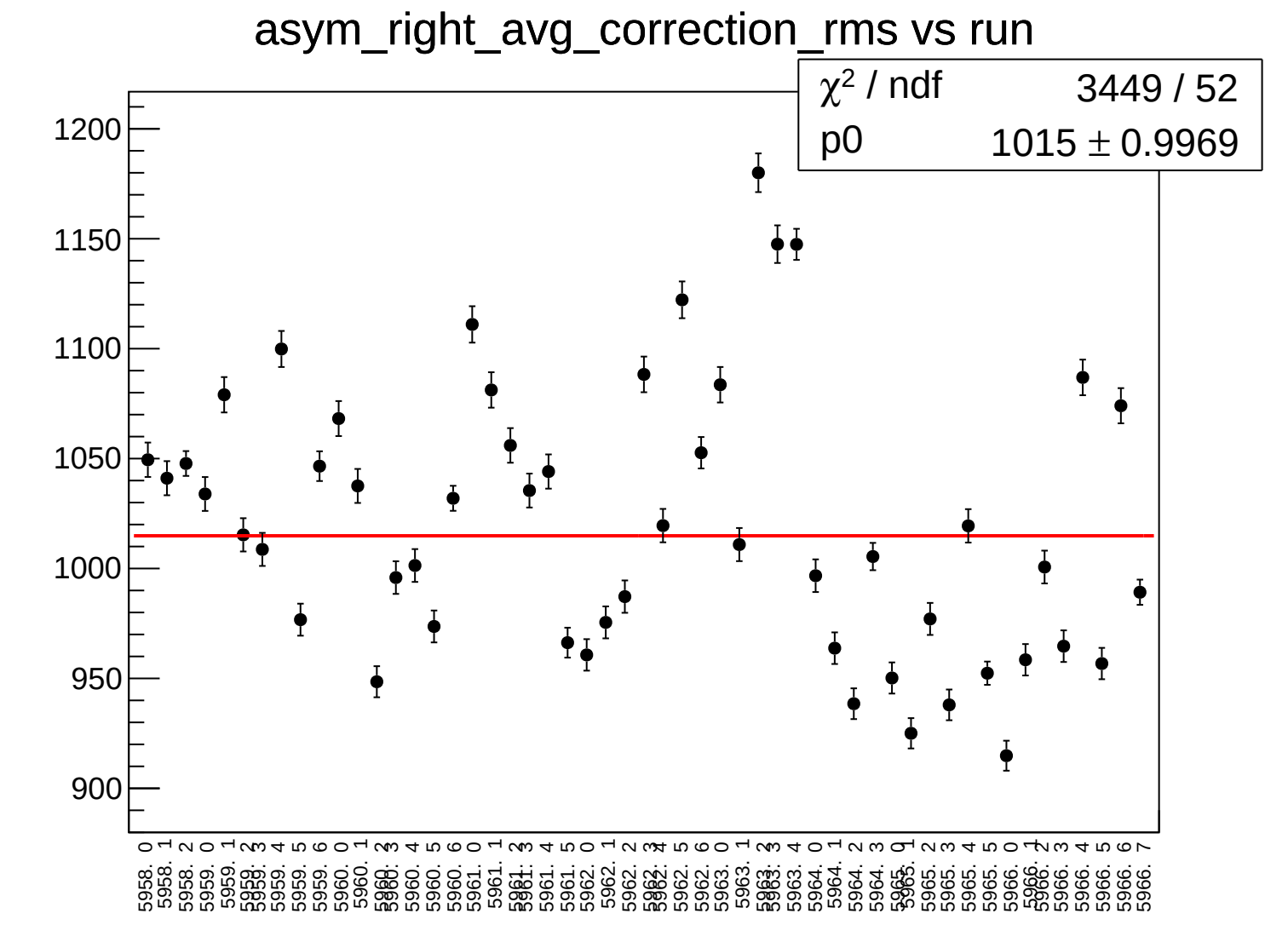

reg_asym_right_avg_mean vs run
χ² / ndf 57.79 / 52
p0 −1221 ± 774.4
20000
10000
0
−10000
−20000
pull
Entries 53
Mean −199
Std Dev 229.4
3
2
1
0
−1
−2

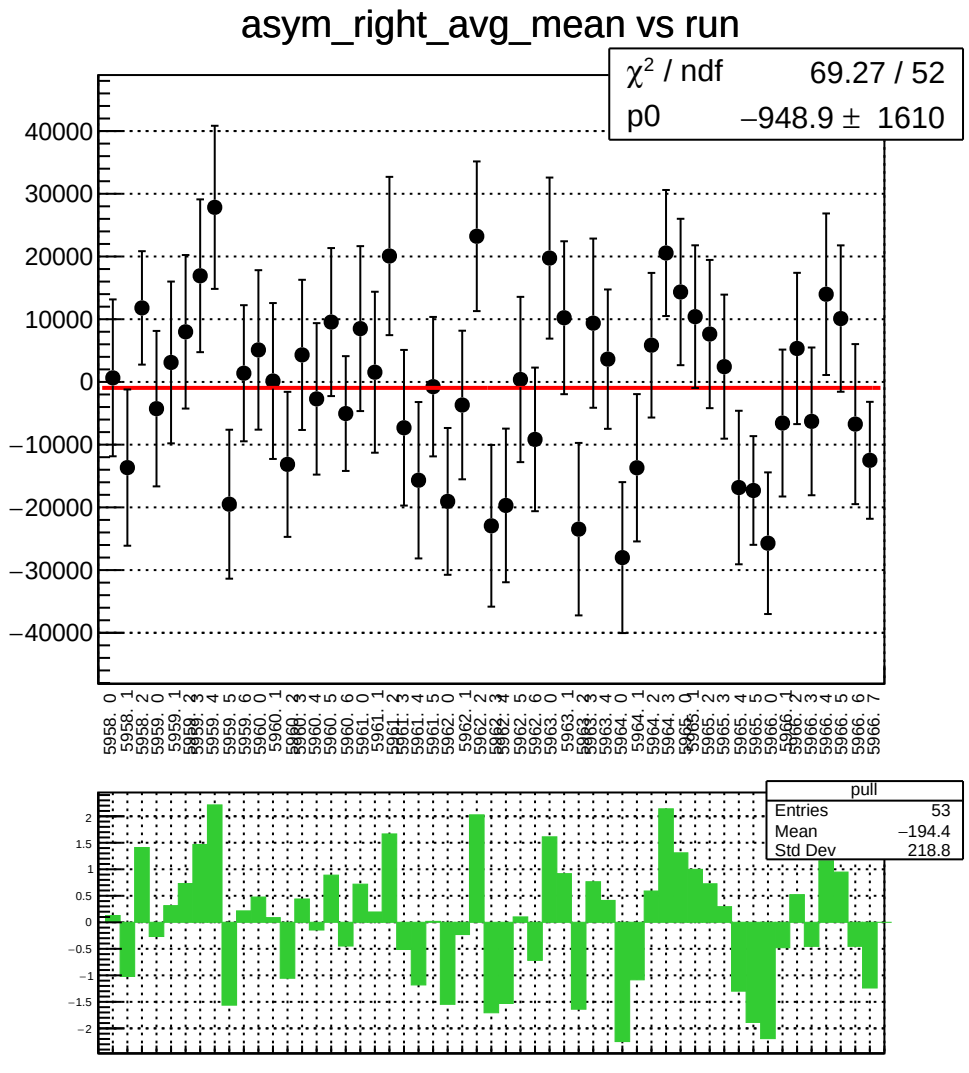

pull1D
Entries 53
Mean 0.01226
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

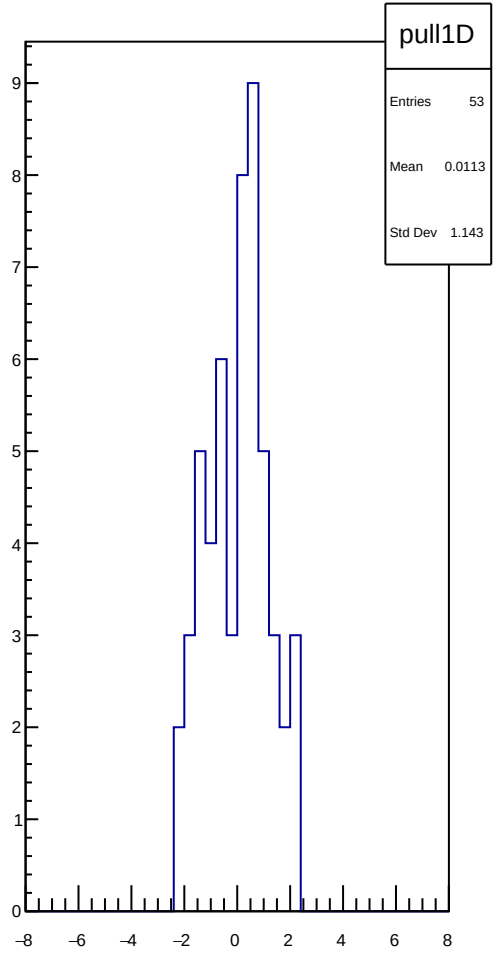

reg_asym_right_avg_rms vs run
χ² / ndf 75.86 / 52
p0 558.4 ± 0.5476
585
580
575
570
565
560
555
550
545
540

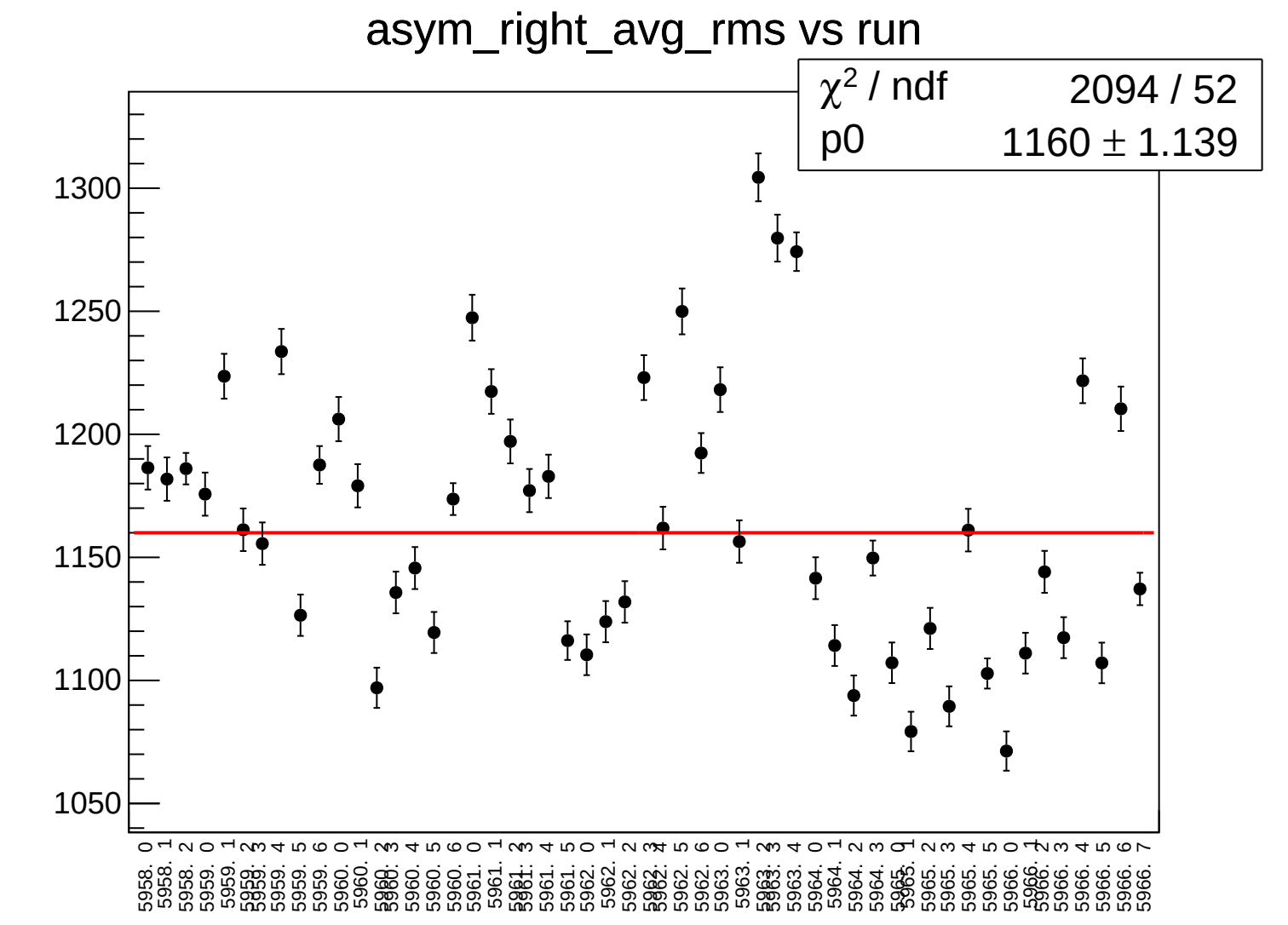

asym_right_avg_correction_mean vs run
χ² / ndf 66.62 / 52
p0 −433.3 ± 1410
pull
Entries 53
Mean 999.6
Std Dev 980.5

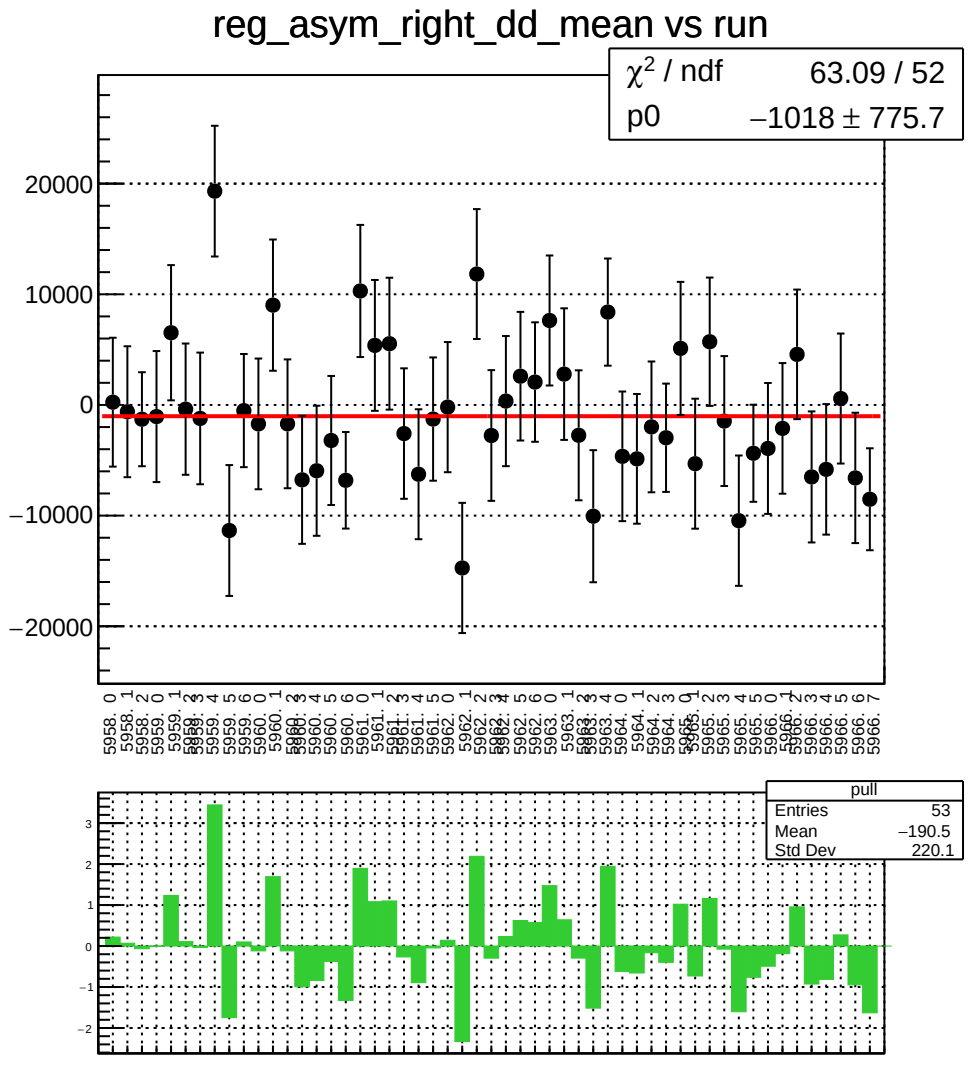

pull1D
Entries 53
Mean 0.001441
Std Dev 1.121

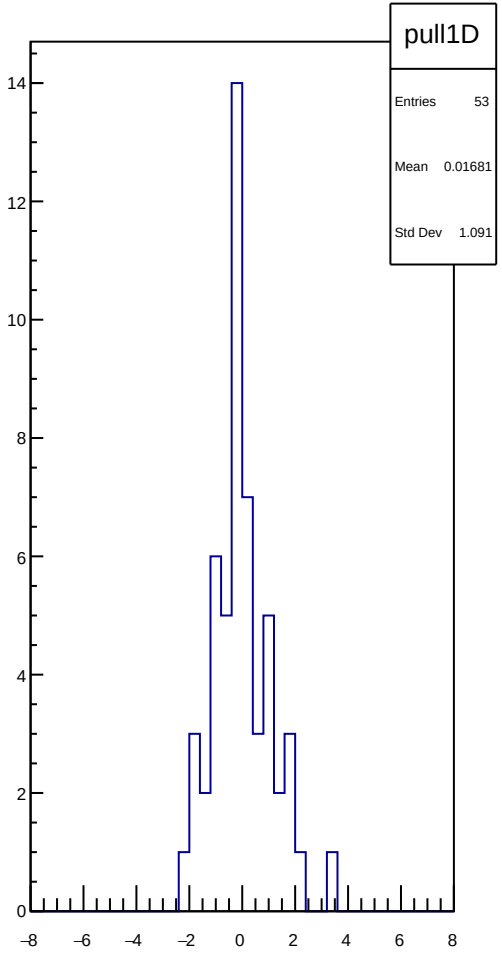

asym_right_avg_correction_rms vs run
χ² / ndf 3449 / 52
p0 1015 ± 0.9969
1200
1150
1100
1050
1000
950
900
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

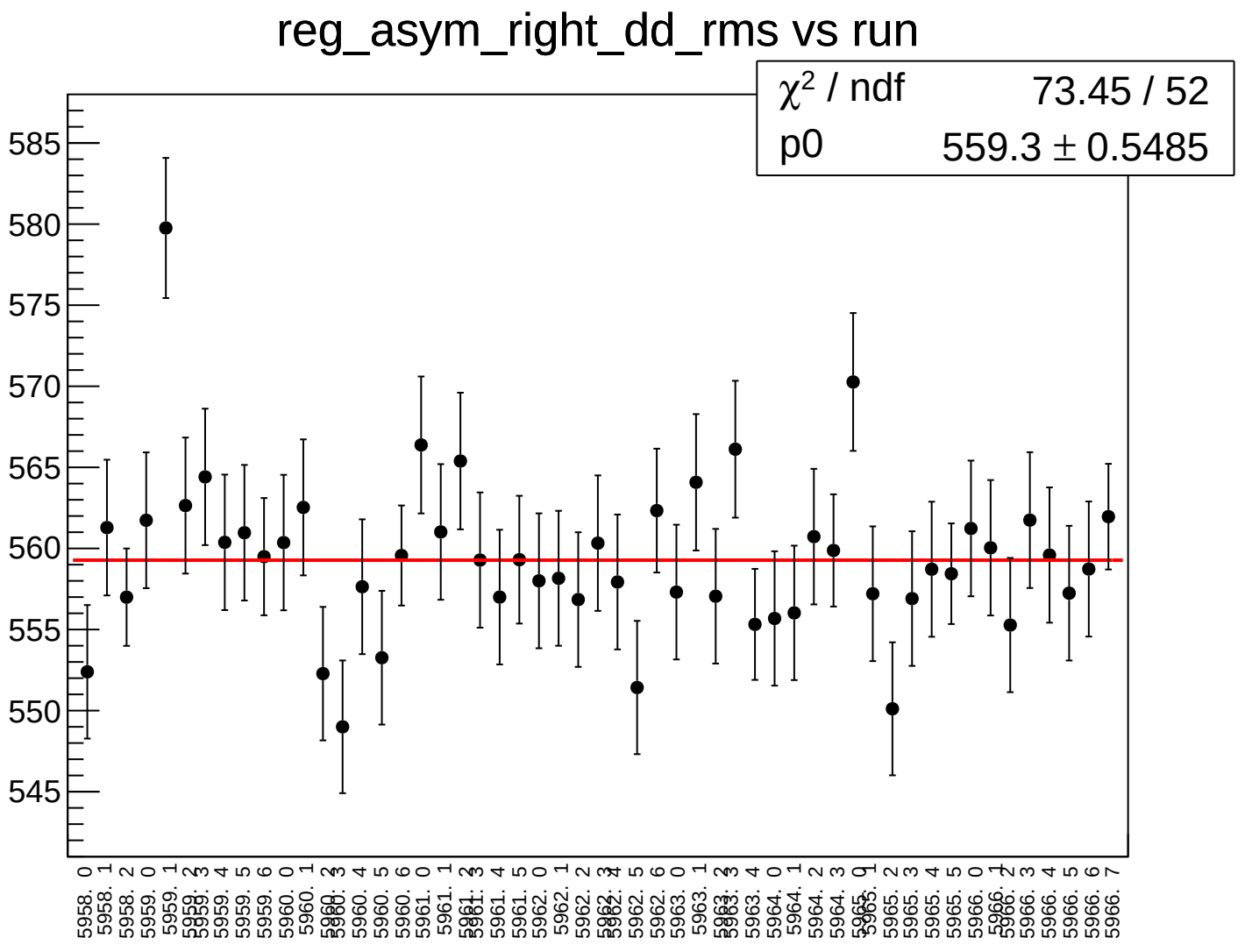

asym_right_avg_mean vs run
χ² / ndf 69.27 / 52
p0 −948.9 ± 1610
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 53
Mean −194.4
Std Dev 218.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

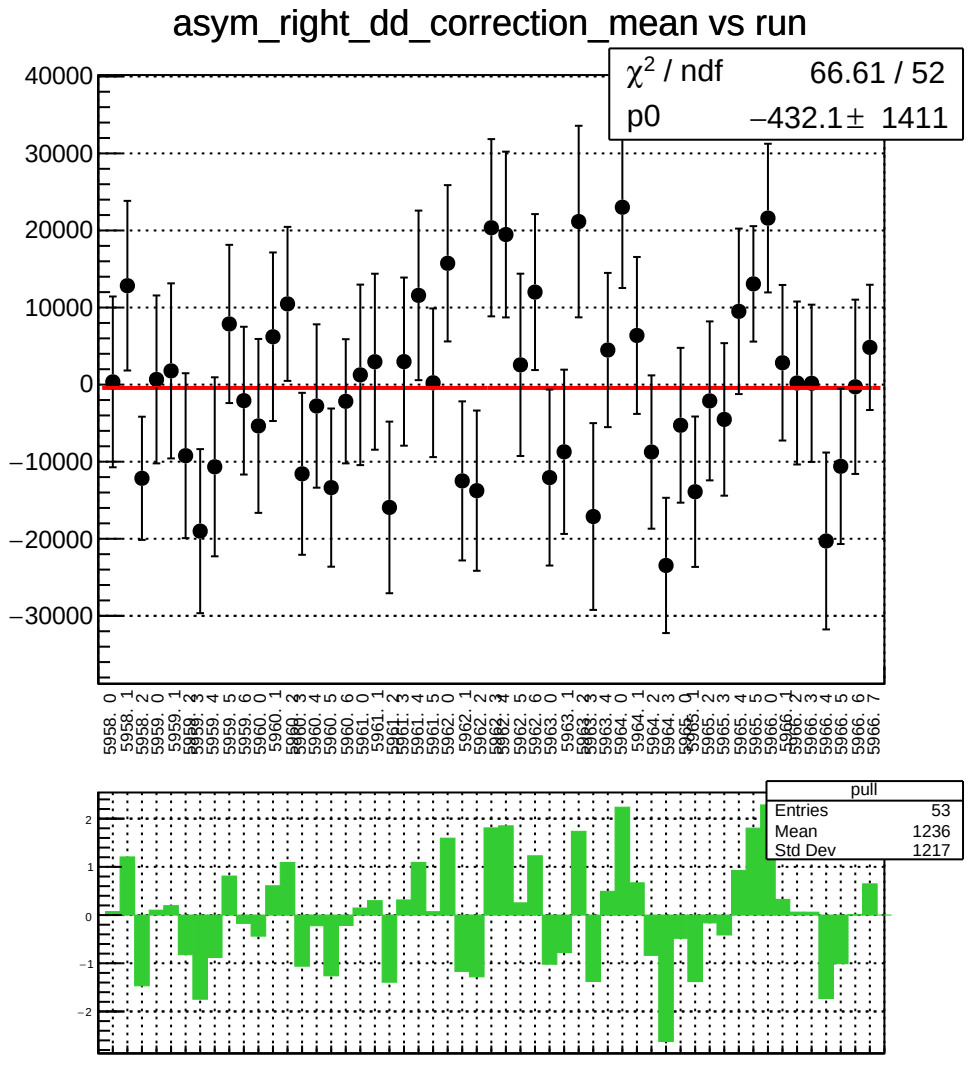

pull1D
Entries 53
Mean 0.0113
Std Dev 1.143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

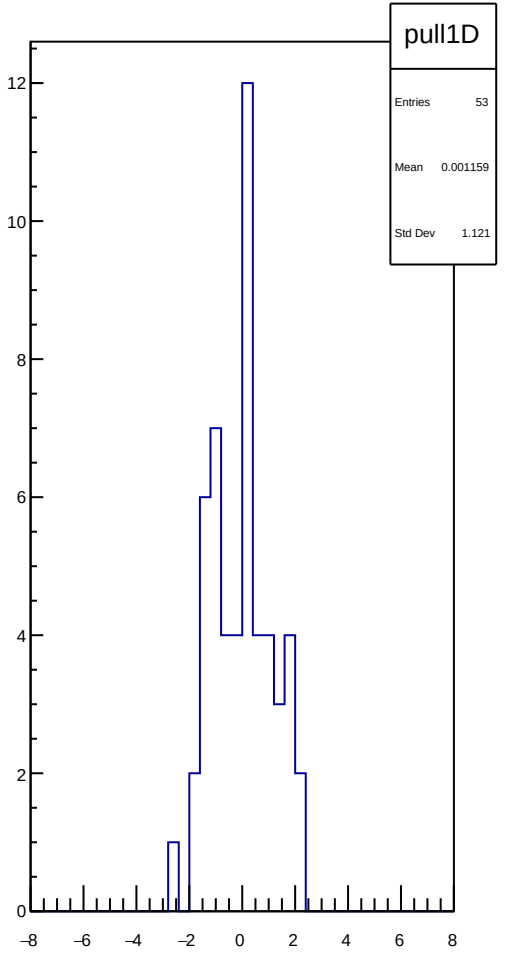

asym_right_avg_rms vs run
χ² / ndf 2094 / 52
p0 1160 ± 1.139
1300
1250
1200
1150
1100
1050
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

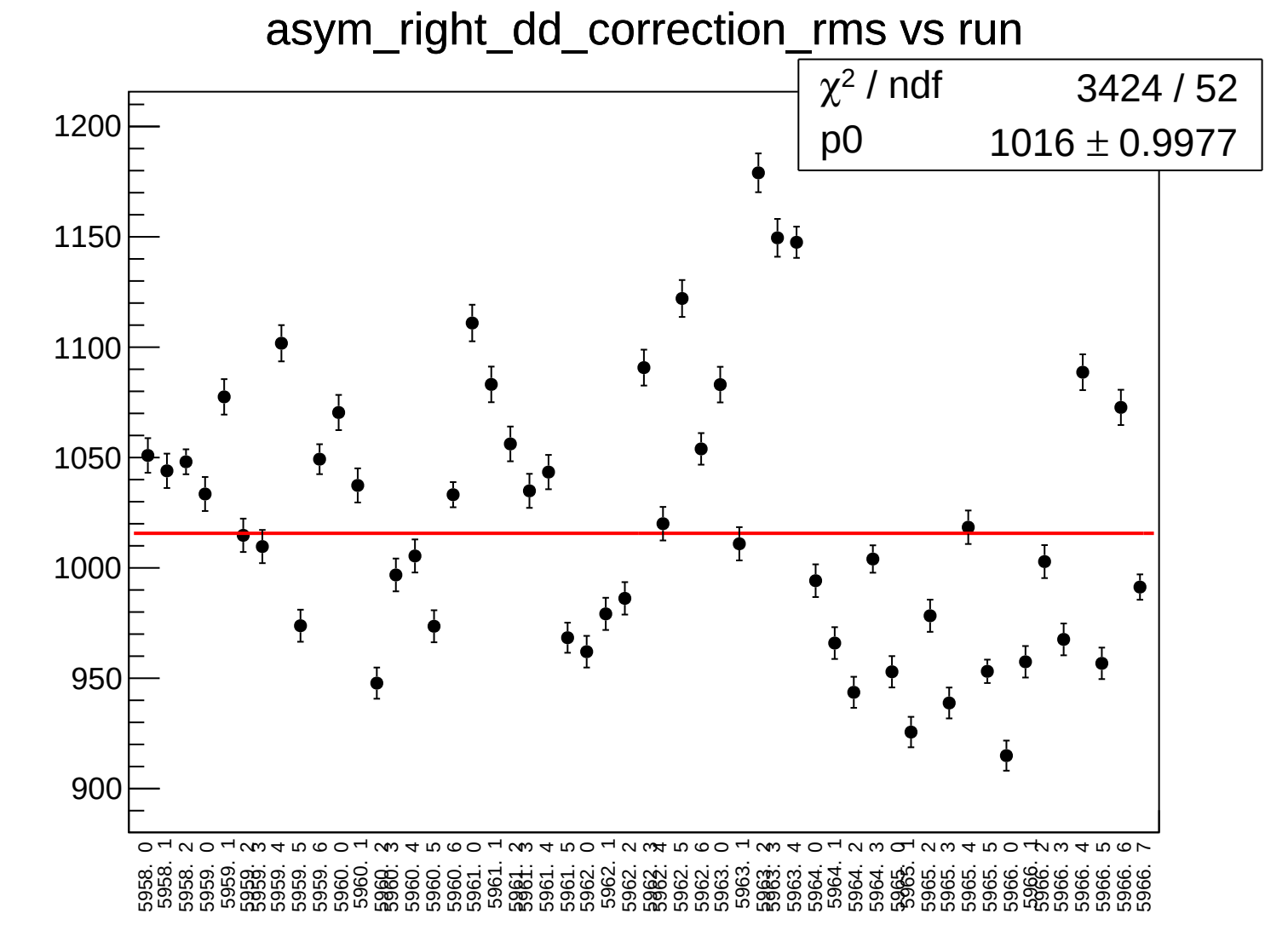

reg_asym_right_dd_mean vs run
χ² / ndf 63.09 / 52
p0 −1018 ± 775.7
20000
10000
0
−10000
−20000
pull
Entries 53
Mean −190.5
Std Dev 220.1
3
2
1
0
−1
−2


pull1D
Entries 53
Mean 0.01681
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_dd_rms vs run
χ² / ndf 73.45 / 52
p0 559.3 ± 0.5485
585
580
575
570
565
560
555
550
545


asym_right_dd_correction_mean vs run
χ² / ndf 66.61 / 52
p0 −432.1± 1411
pull
Entries 53
Mean 1236
Std Dev 1217


pull1D
Entries 53
Mean 0.001159
Std Dev 1.121


asym_right_dd_correction_rms vs run
χ² / ndf 3424 / 52
p0 1016 ± 0.9977
1200
1150
1100
1050
1000
950
900
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5964. 4
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
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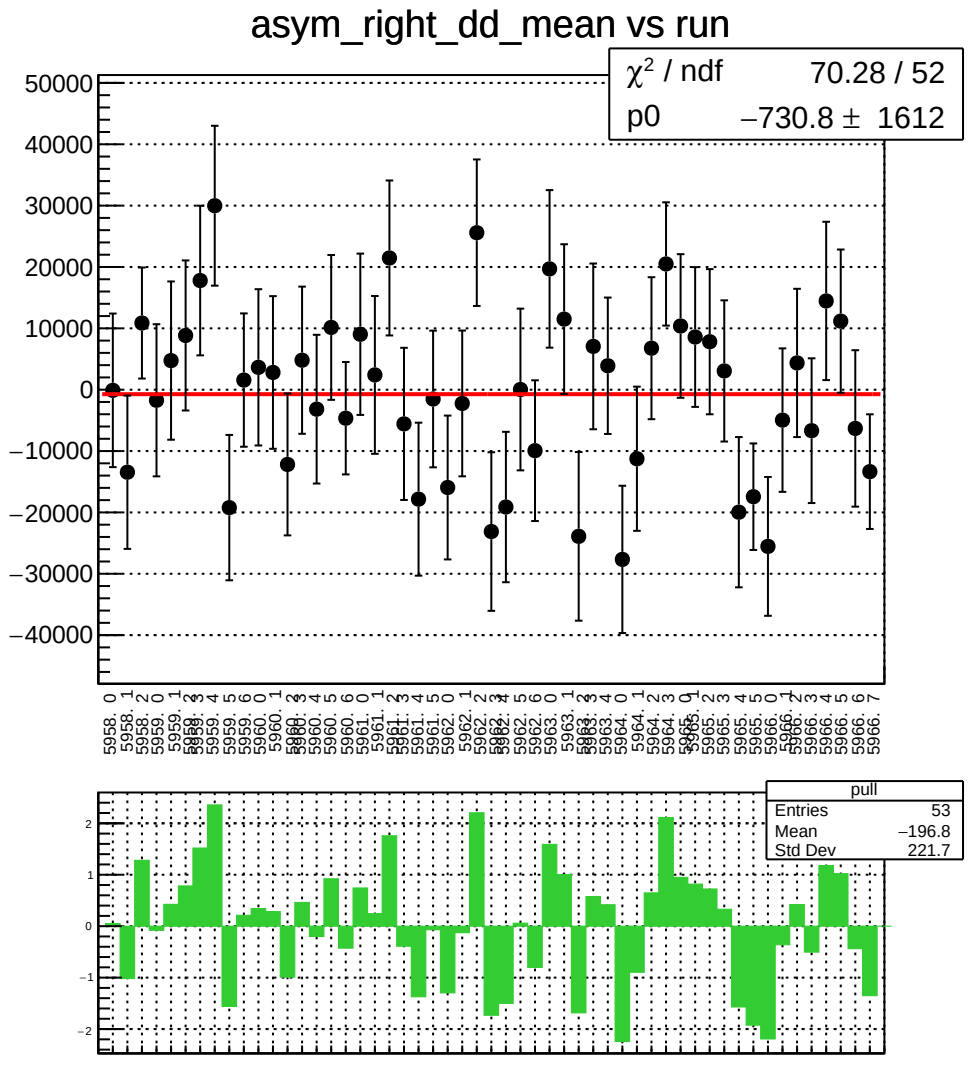
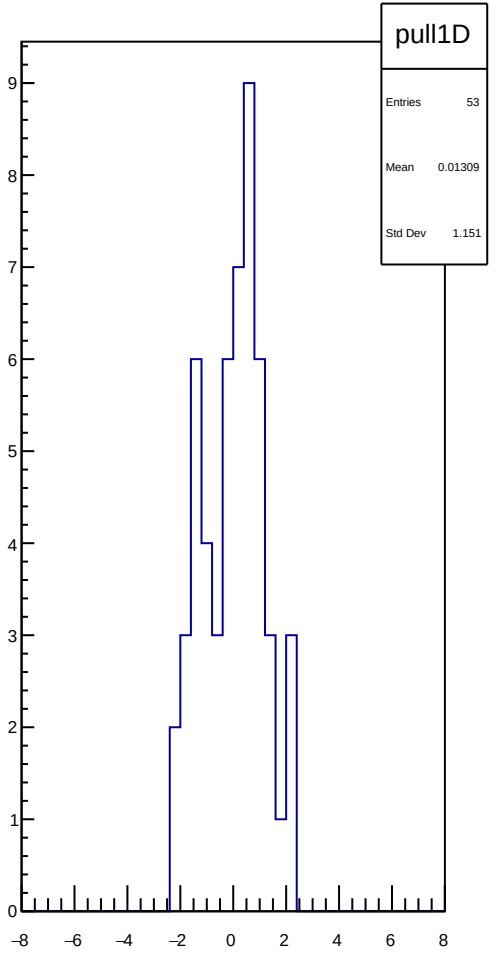
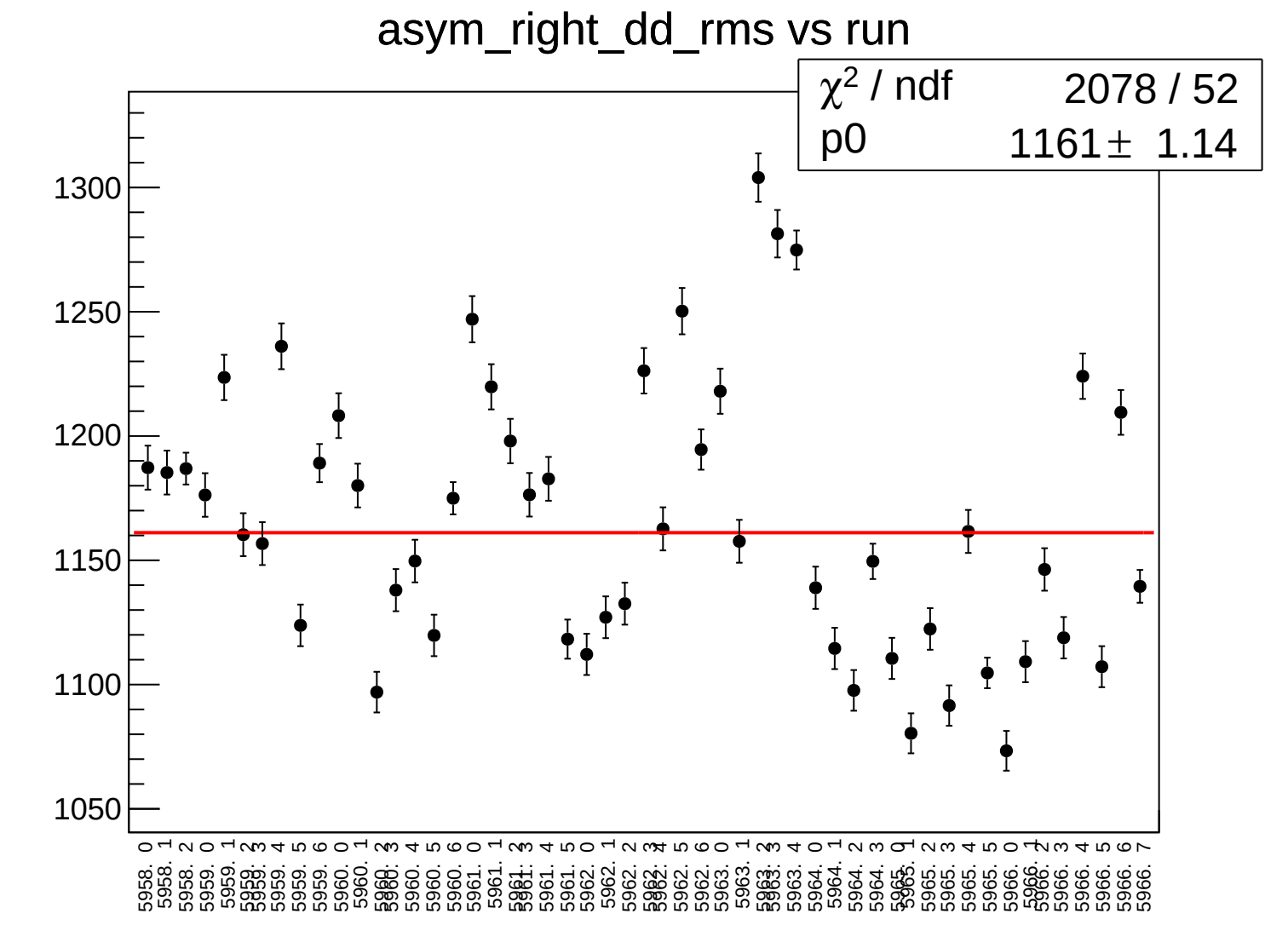
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7


asym_right_dd_mean vs run
χ² / ndf 70.28 / 52
p0 −730.8 ± 1612
pull
Entries 53
Mean −196.8
Std Dev 221.7


pull1D
Entries 53
Mean 0.01309
Std Dev 1.151


asym_right_dd_rms vs run
χ² / ndf 2078 / 52
p0 1161 ± 1.14
1300
1250
1200
1150
1100
1050
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5964. 4
5965. 1
5965. 2
5965. 3
5965. 4
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5966. 0
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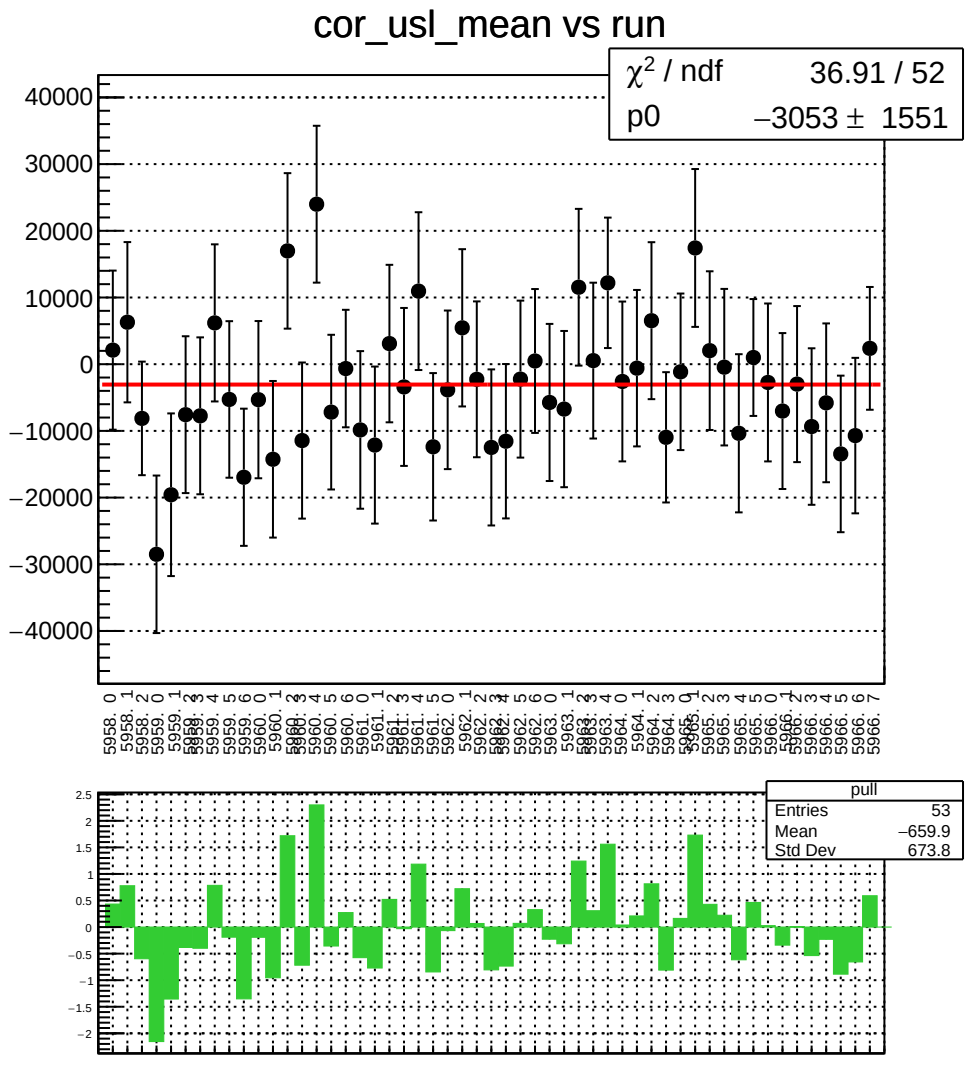
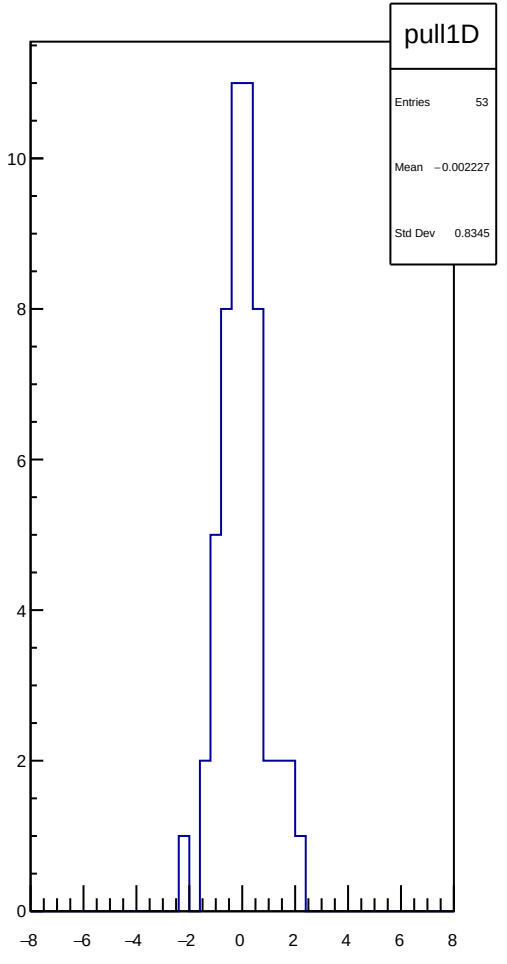
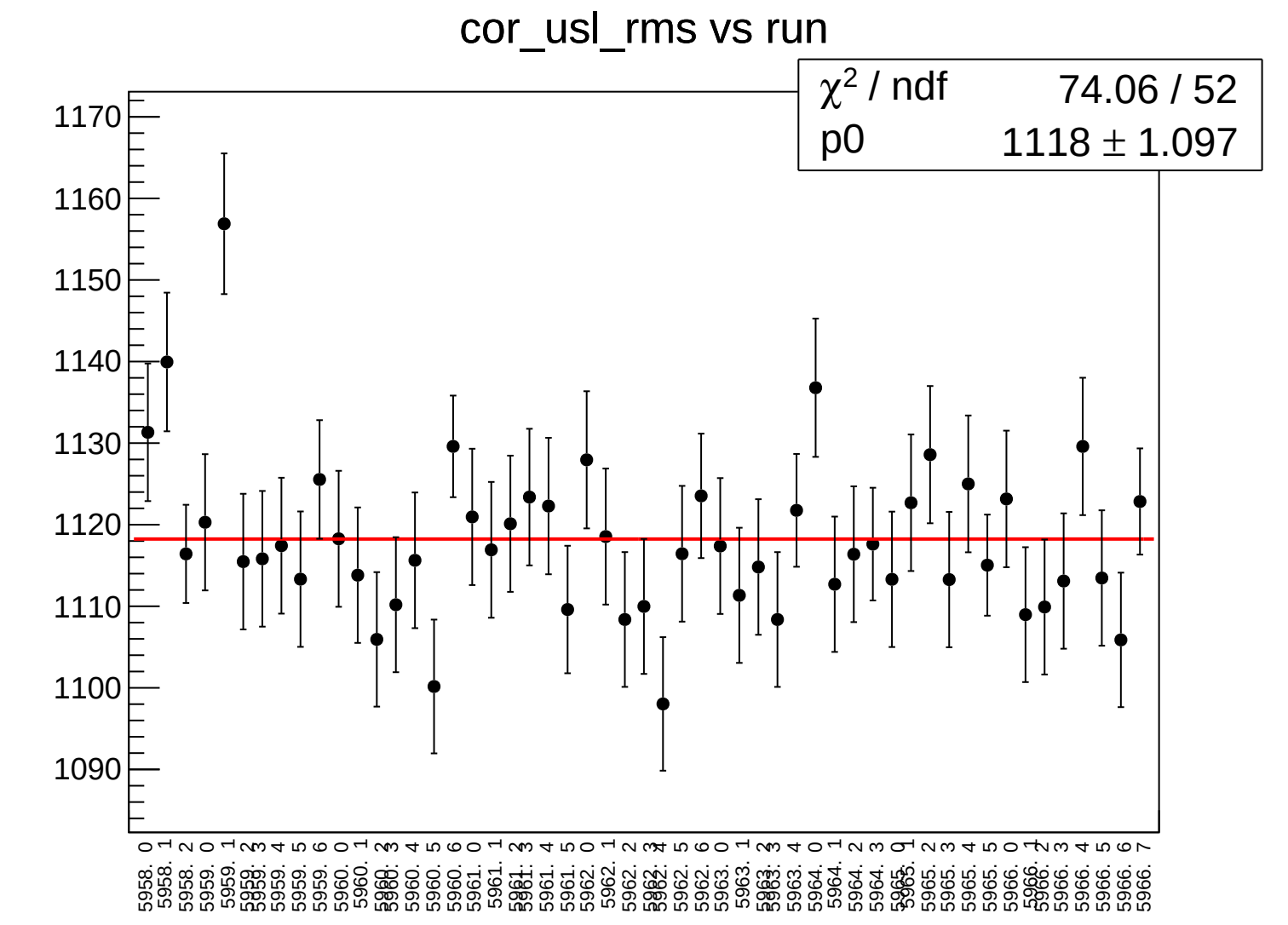
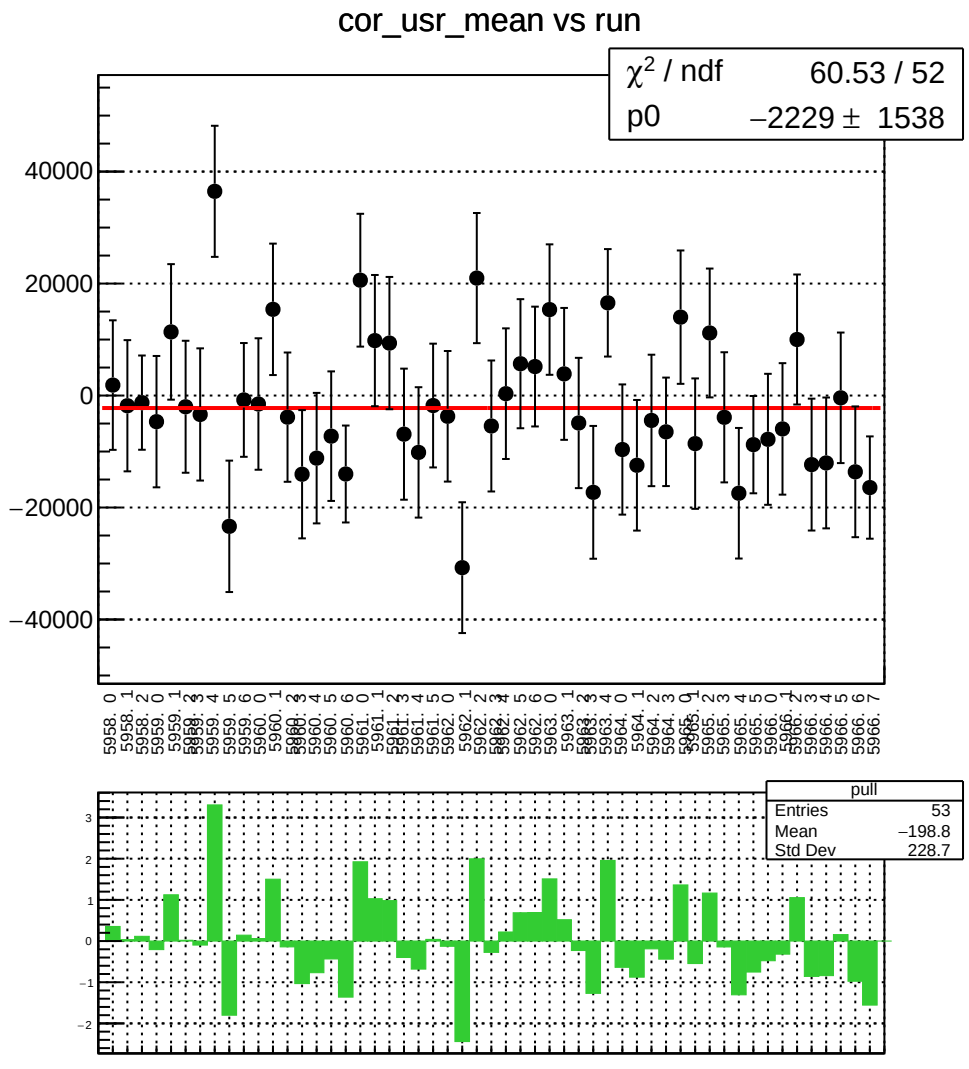
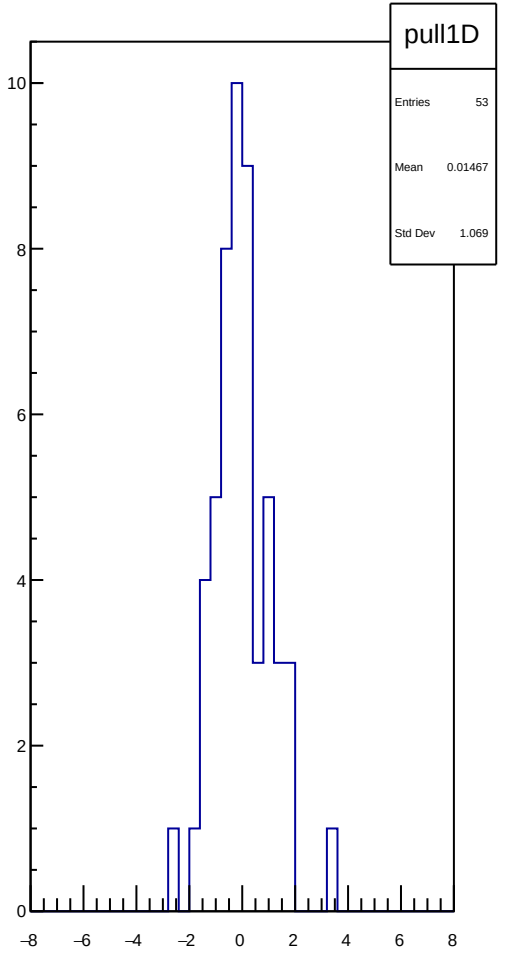
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

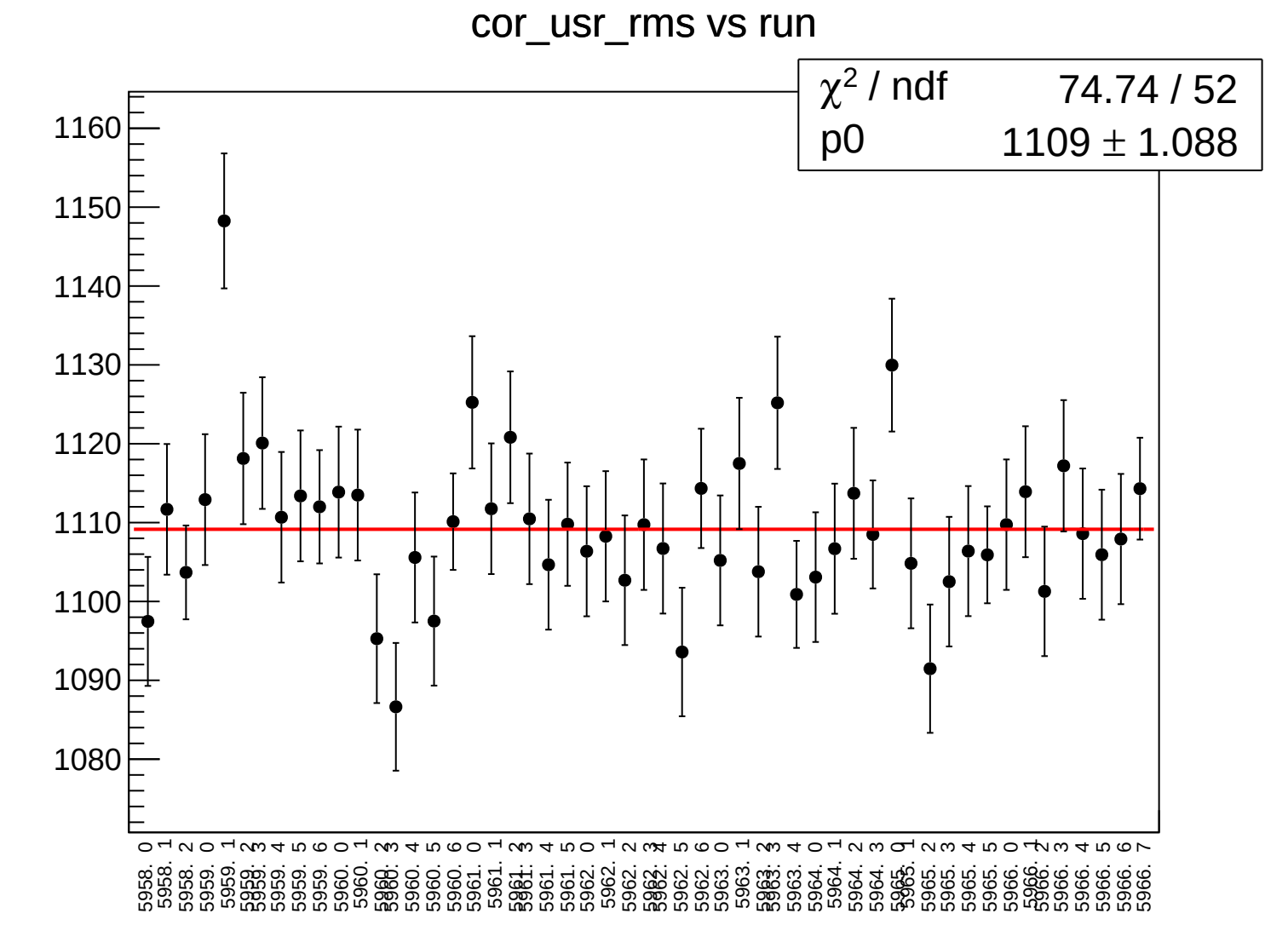

cor_usl_mean vs run
χ² / ndf 36.91 / 52
p0 −3053 ± 1551
pull
Entries 53
Mean −659.9
Std Dev 673.8

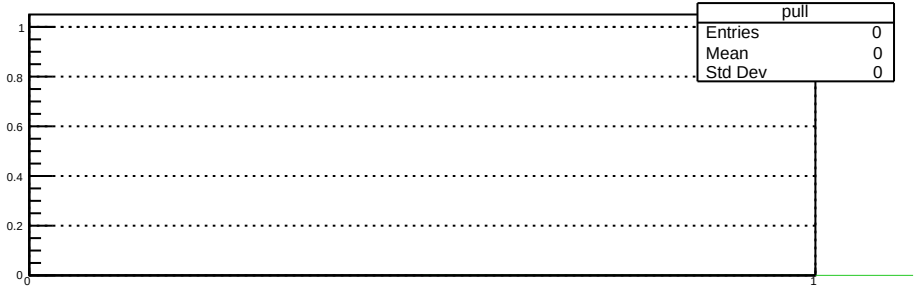

pull1D
Entries 53
Mean −0.002227
Std Dev 0.8345

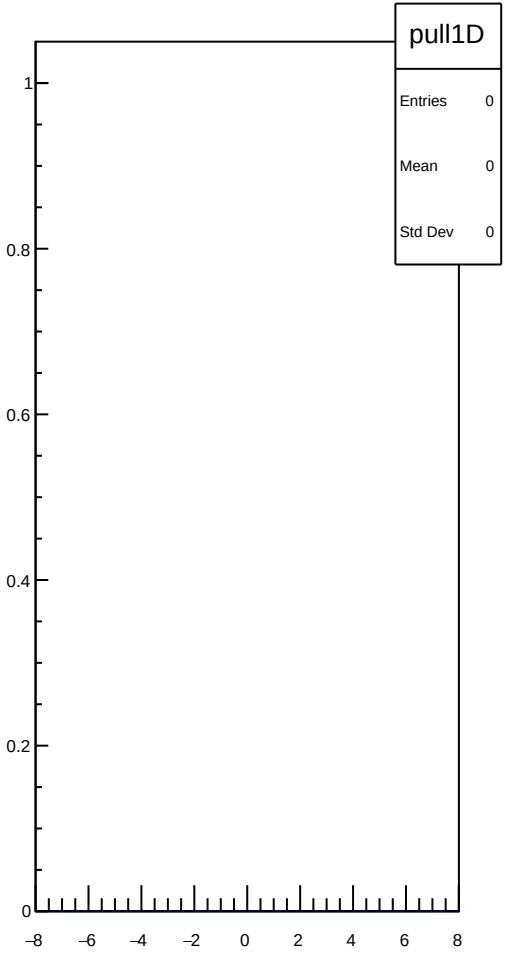

cor_usl_rms vs run
χ^2 / ndf 74.06 / 52
p0 1118 ± 1.097
1170
1160
1150
1140
1130
1120
1110
1100
1090

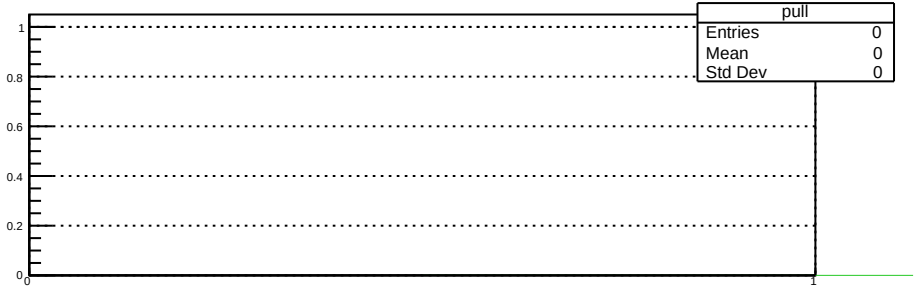

cor_usr_mean vs run
χ² / ndf 60.53 / 52
p0 −2229 ± 1538
40000
20000
0
−20000
−40000
pull
Entries 53
Mean −198.8
Std Dev 228.7
3
2
1
0
−1
−2

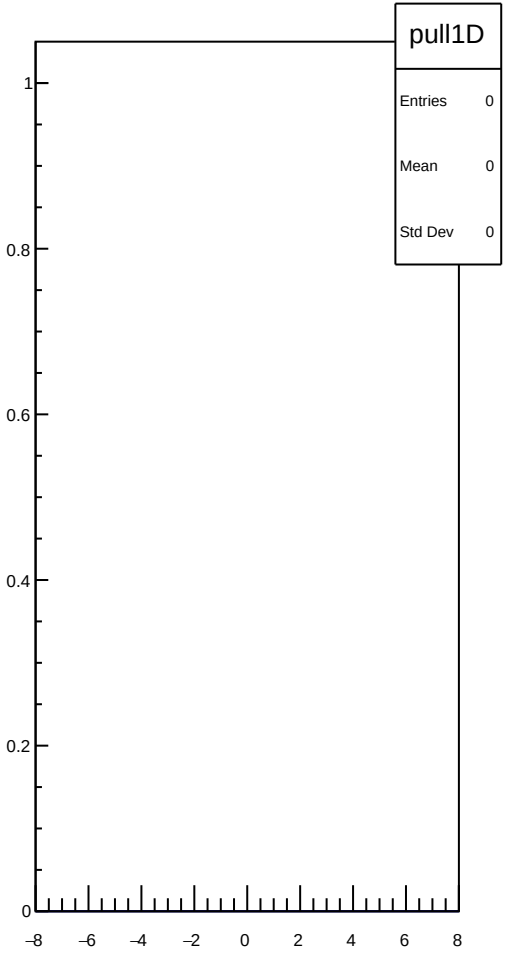

pull1D
Entries 53
Mean 0.01467
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

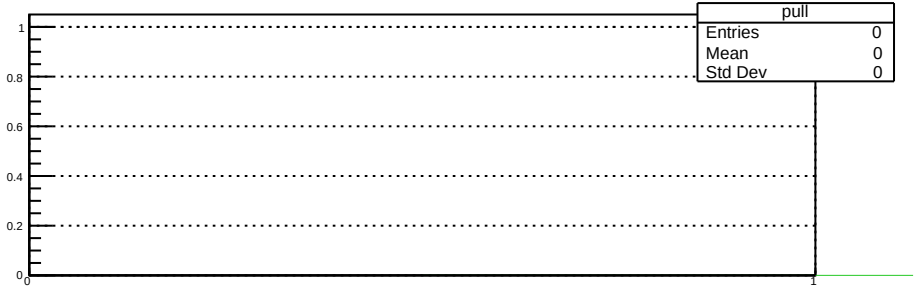

cor_usr_rms vs run
χ^2 / ndf 74.74 / 52
p0 1109 ± 1.088
1160
1150
1140
1130
1120
1110
1100
1090
1080

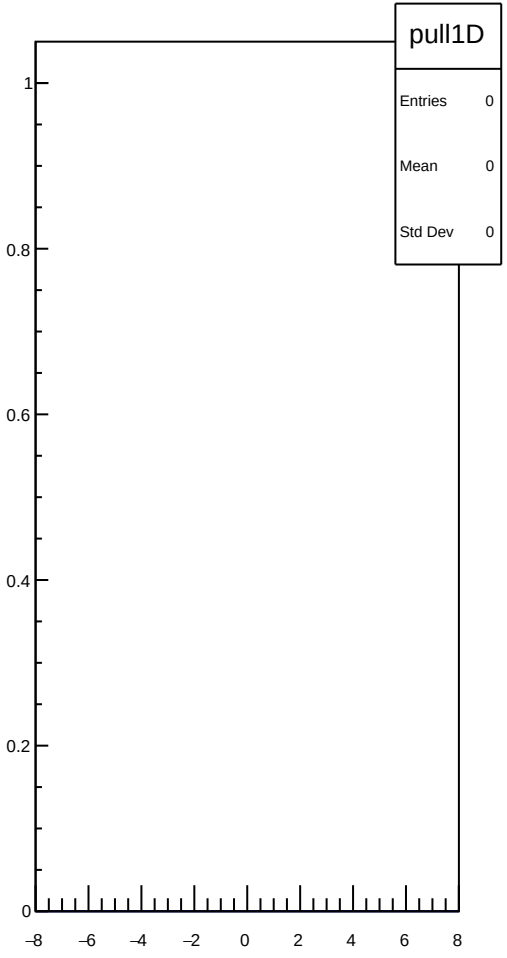

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

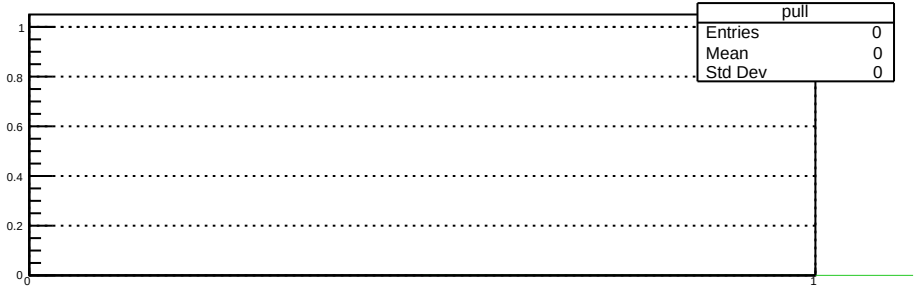

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

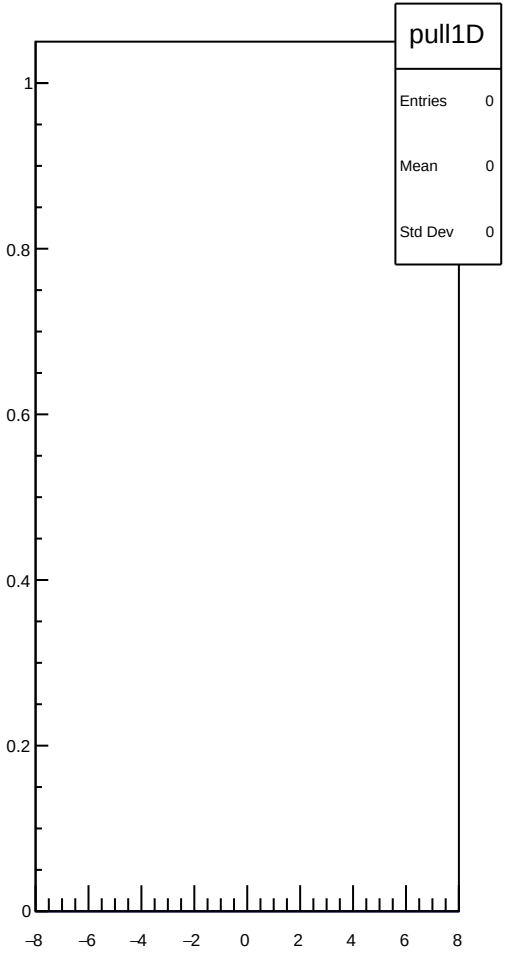

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

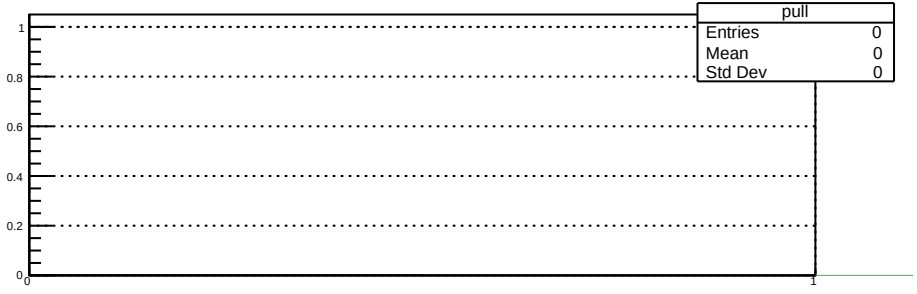

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

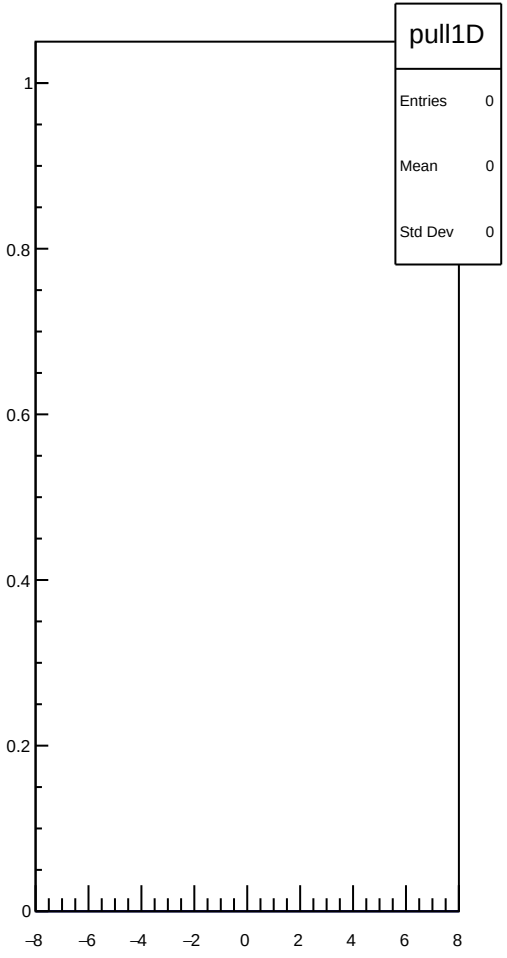

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

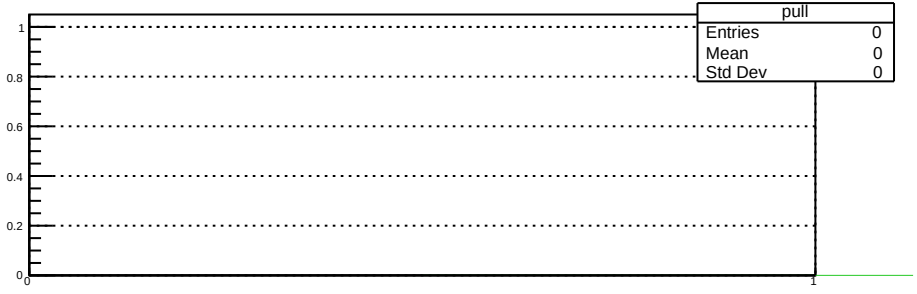

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

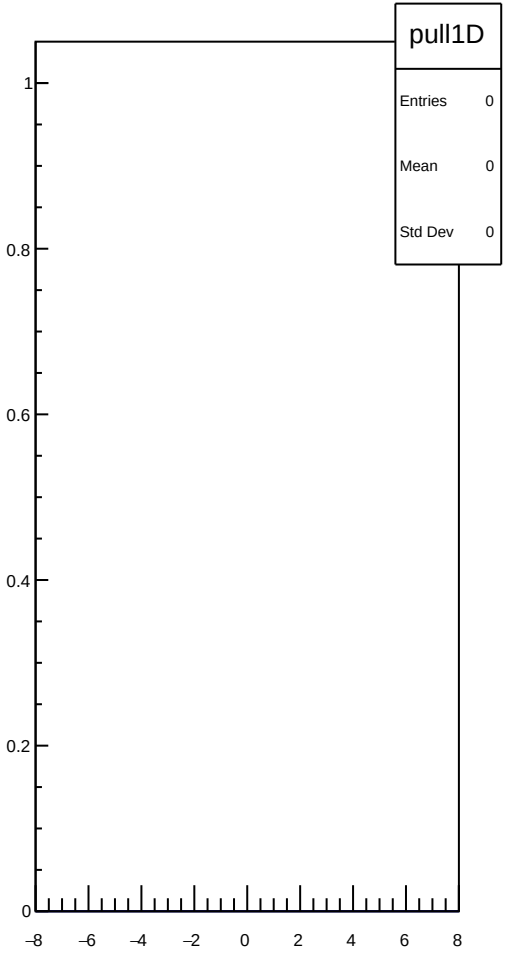

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

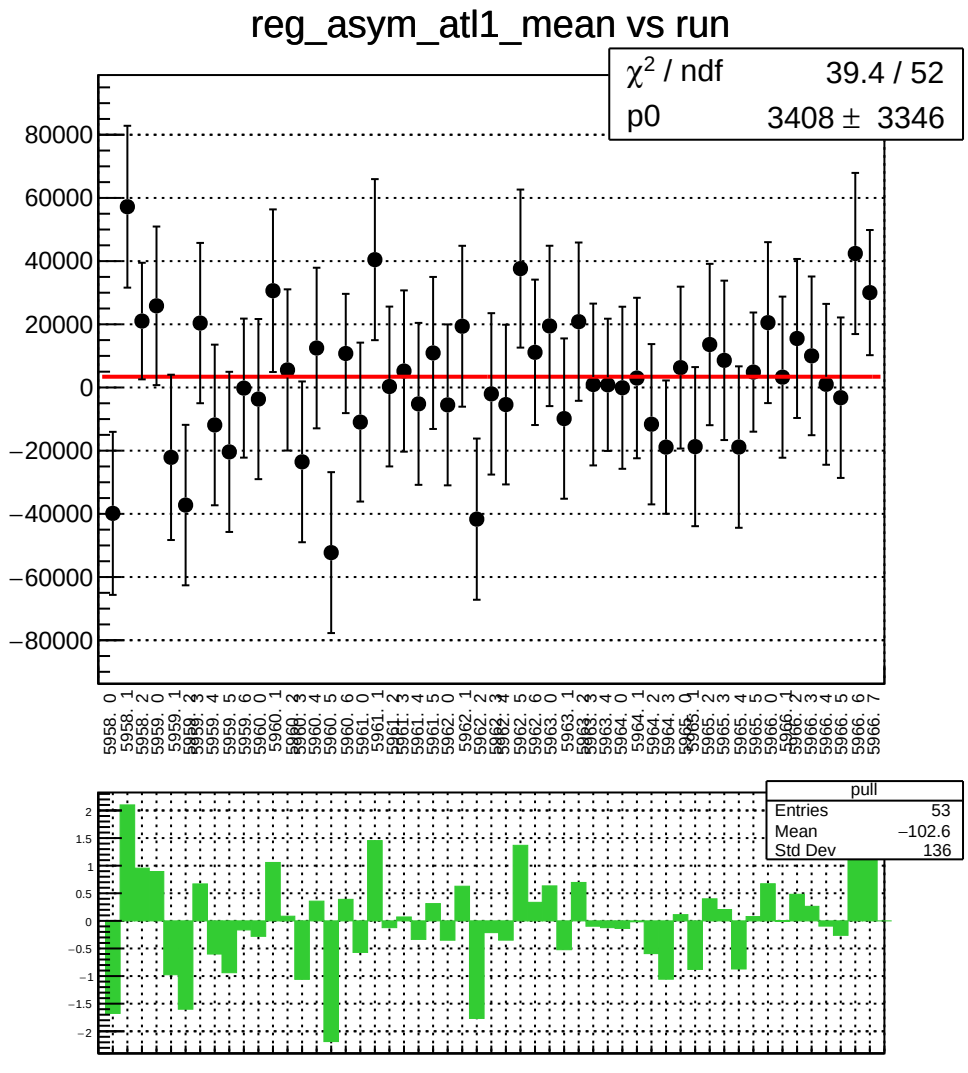

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

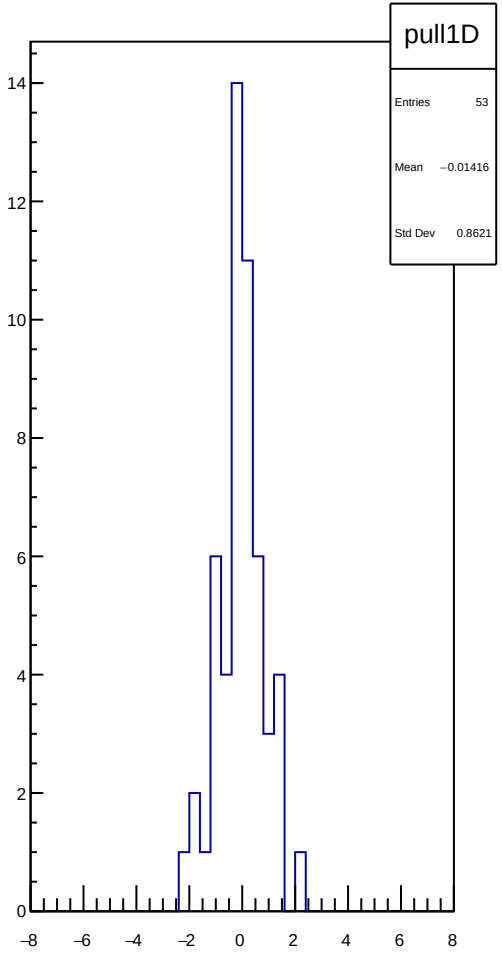

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

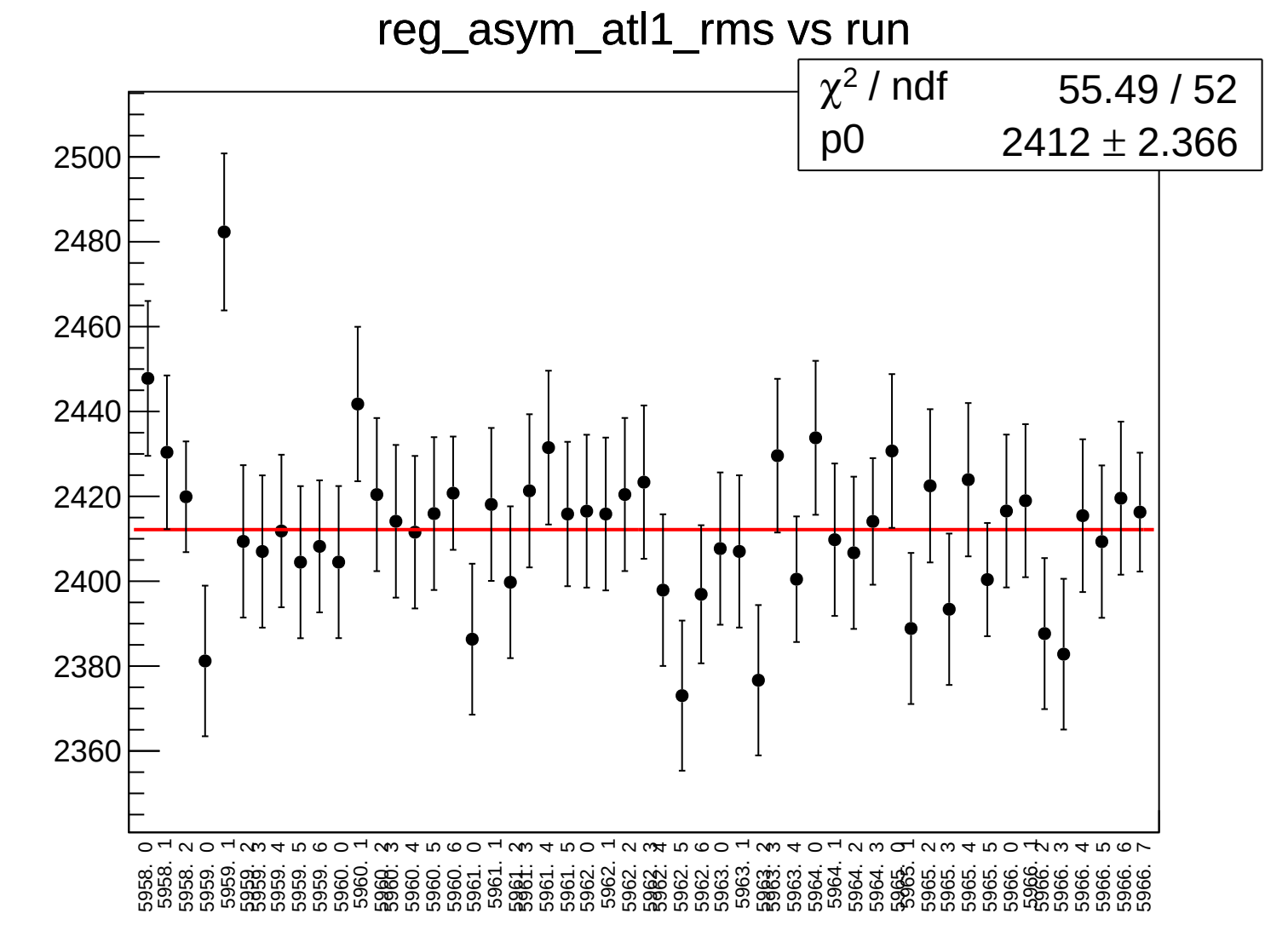

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

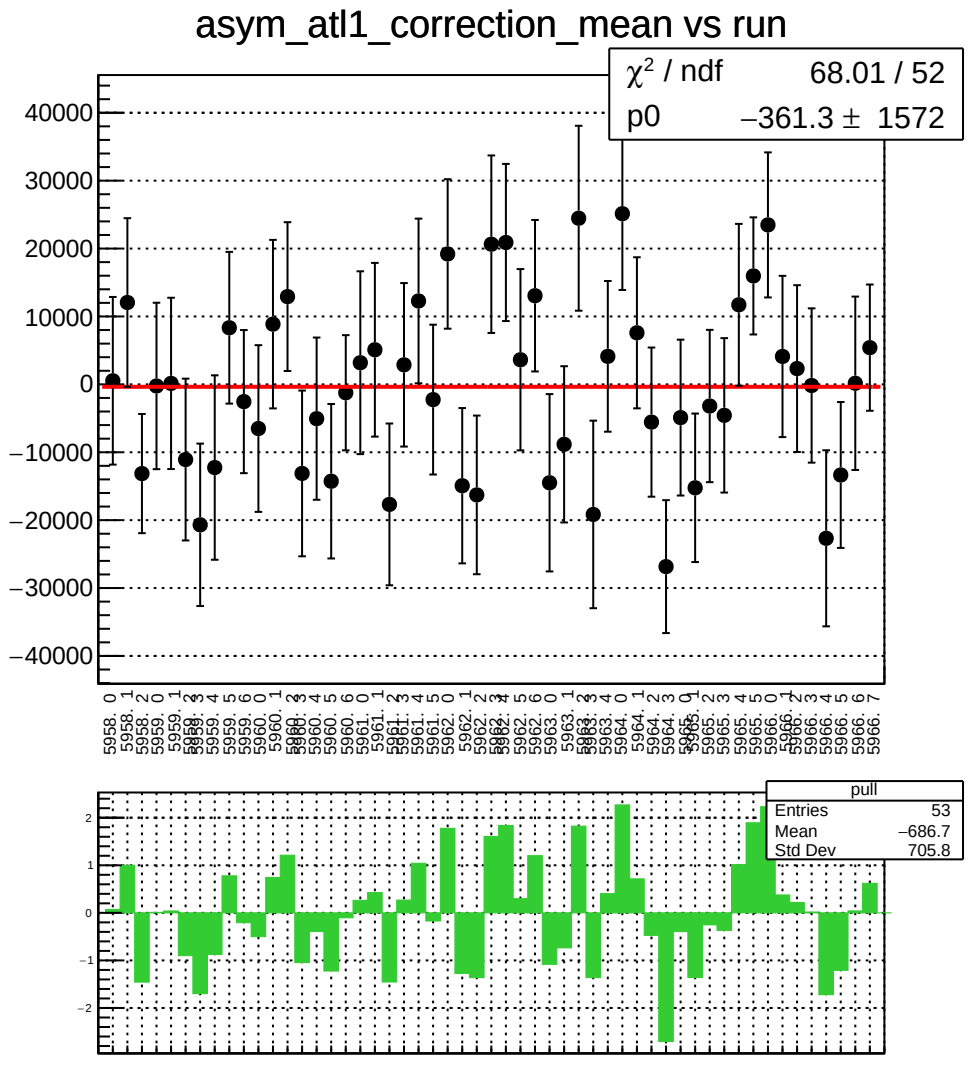

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

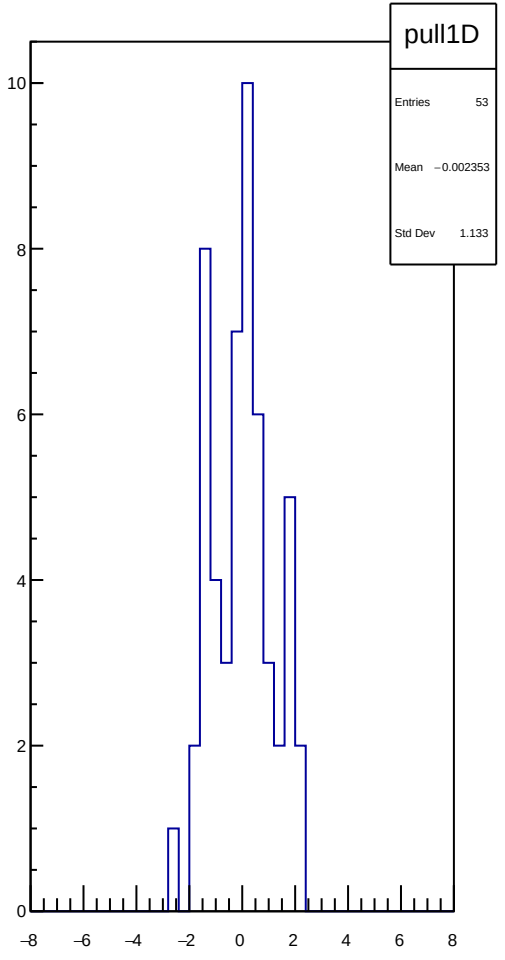

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

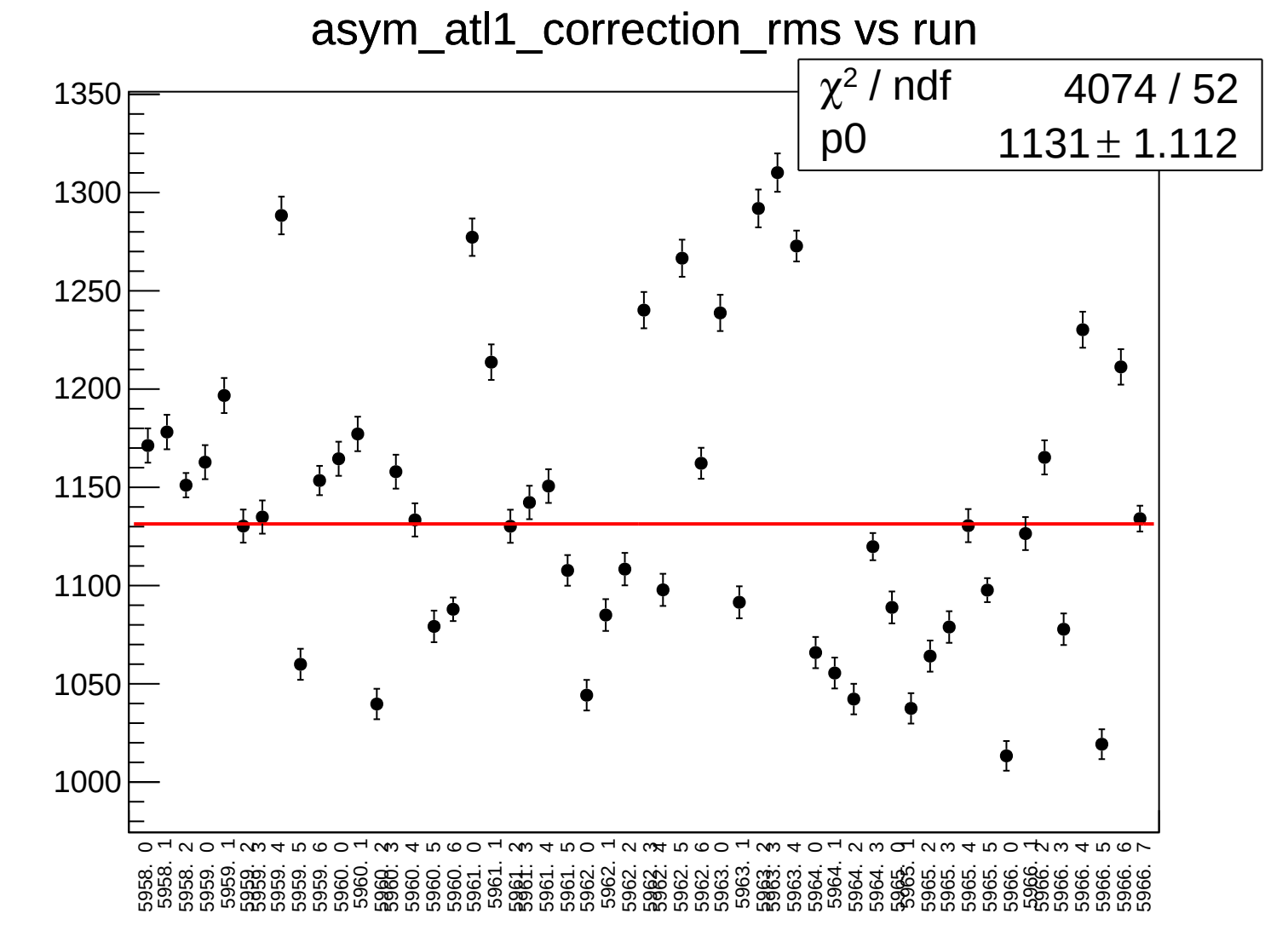

reg_asym_atl1_mean vs run
χ² / ndf 39.4 / 52
p0 3408 ± 3346
pull
Entries 53
Mean −102.6
Std Dev 136


pull1D
Entries 53
Mean −0.01416
Std Dev 0.8621


reg_asym_atl1_rms vs run
χ² / ndf 55.49 / 52
p0 2412 ± 2.366
2500
2480
2460
2440
2420
2400
2380
2360


asym_atl1_correction_mean vs run
χ² / ndf 68.01 / 52
p0 −361.3 ± 1572
pull
Entries 53
Mean −686.7
Std Dev 705.8


pull1D
Entries 53
Mean −0.002353
Std Dev 1.133


asym_atl1_correction_rms vs run
χ² / ndf 4074 / 52
p0 1131 ± 1.112
1350
1300
1250
1200
1150
1100
1050
1000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
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5961. 0
5961. 1
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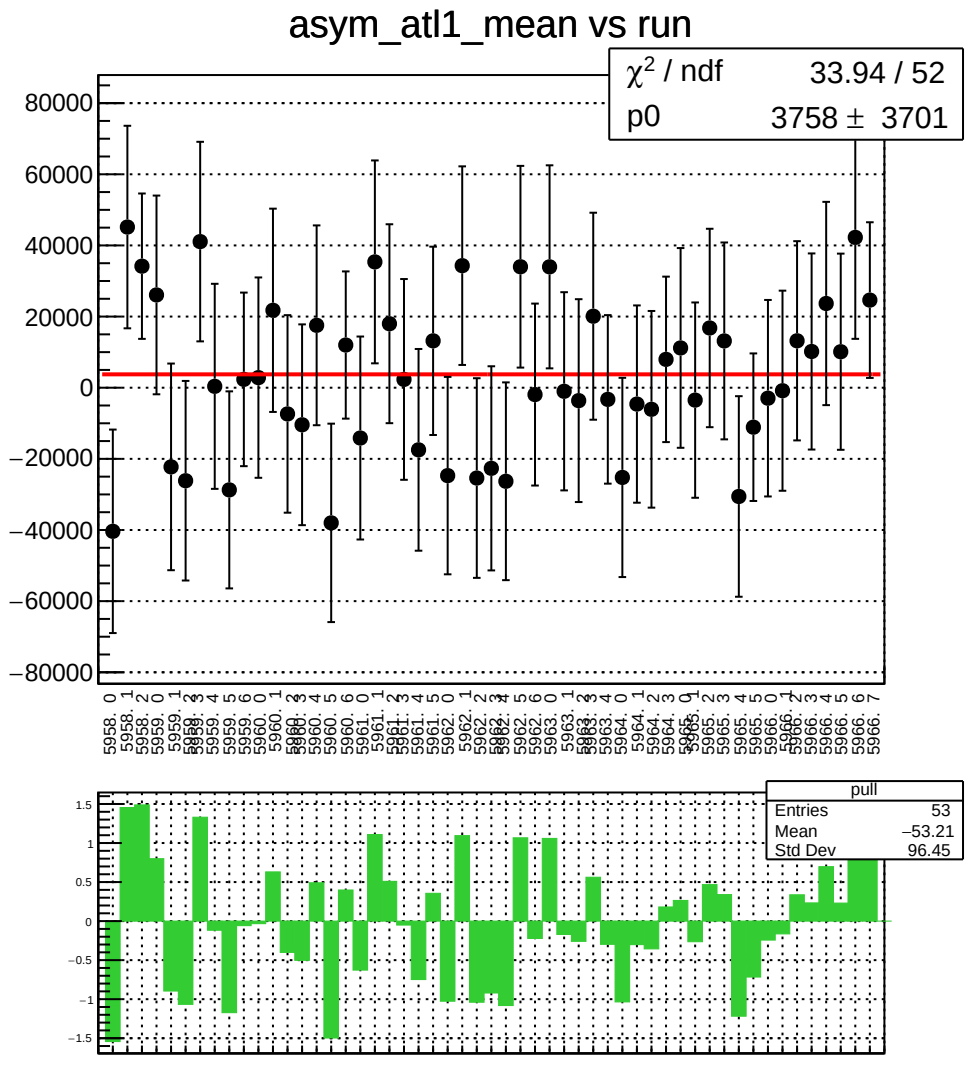
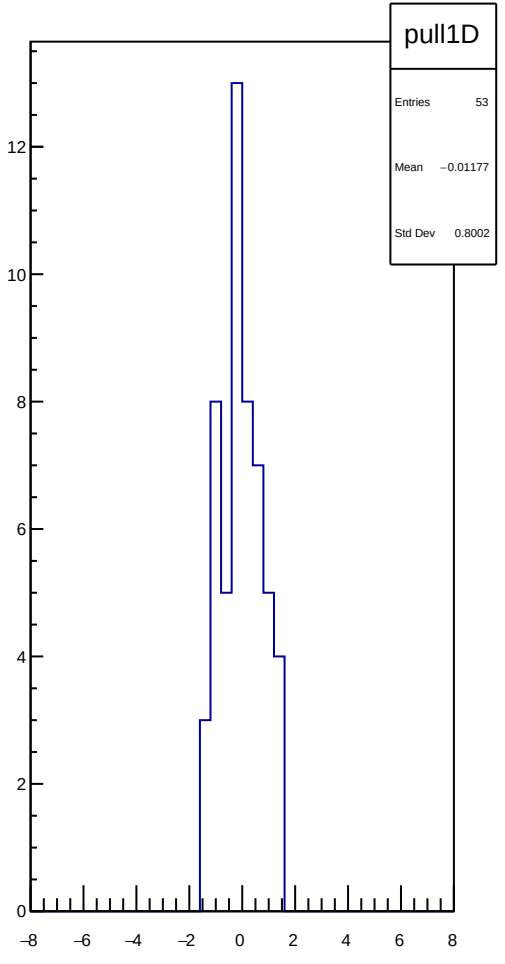
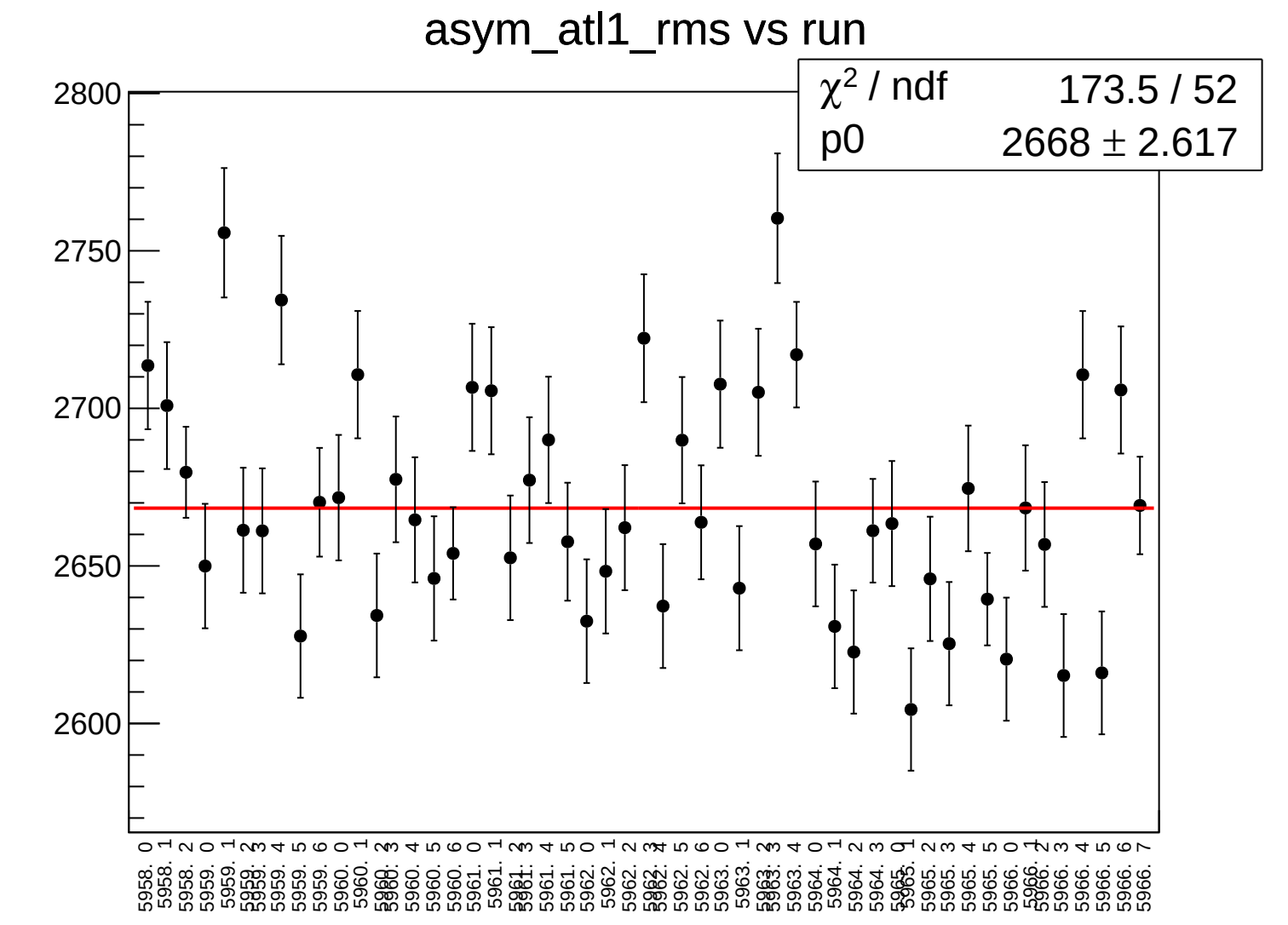
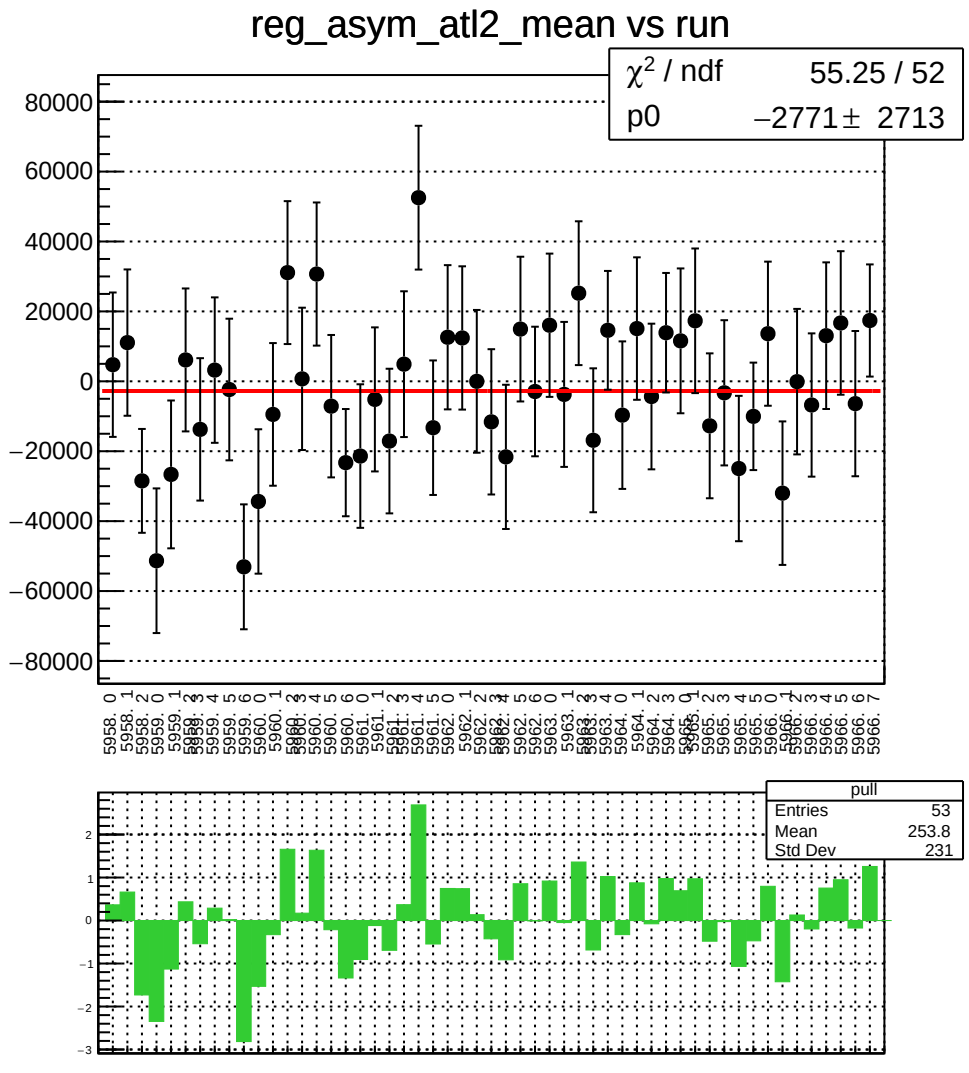
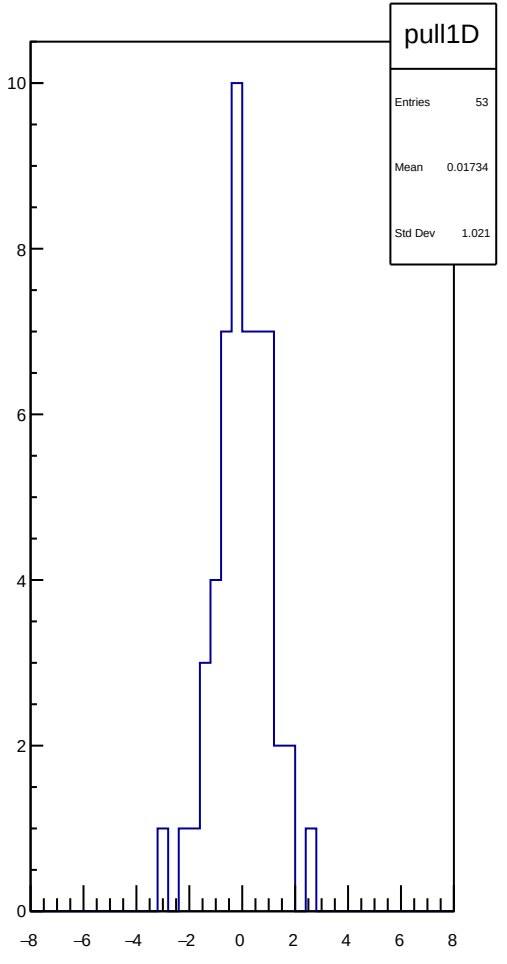
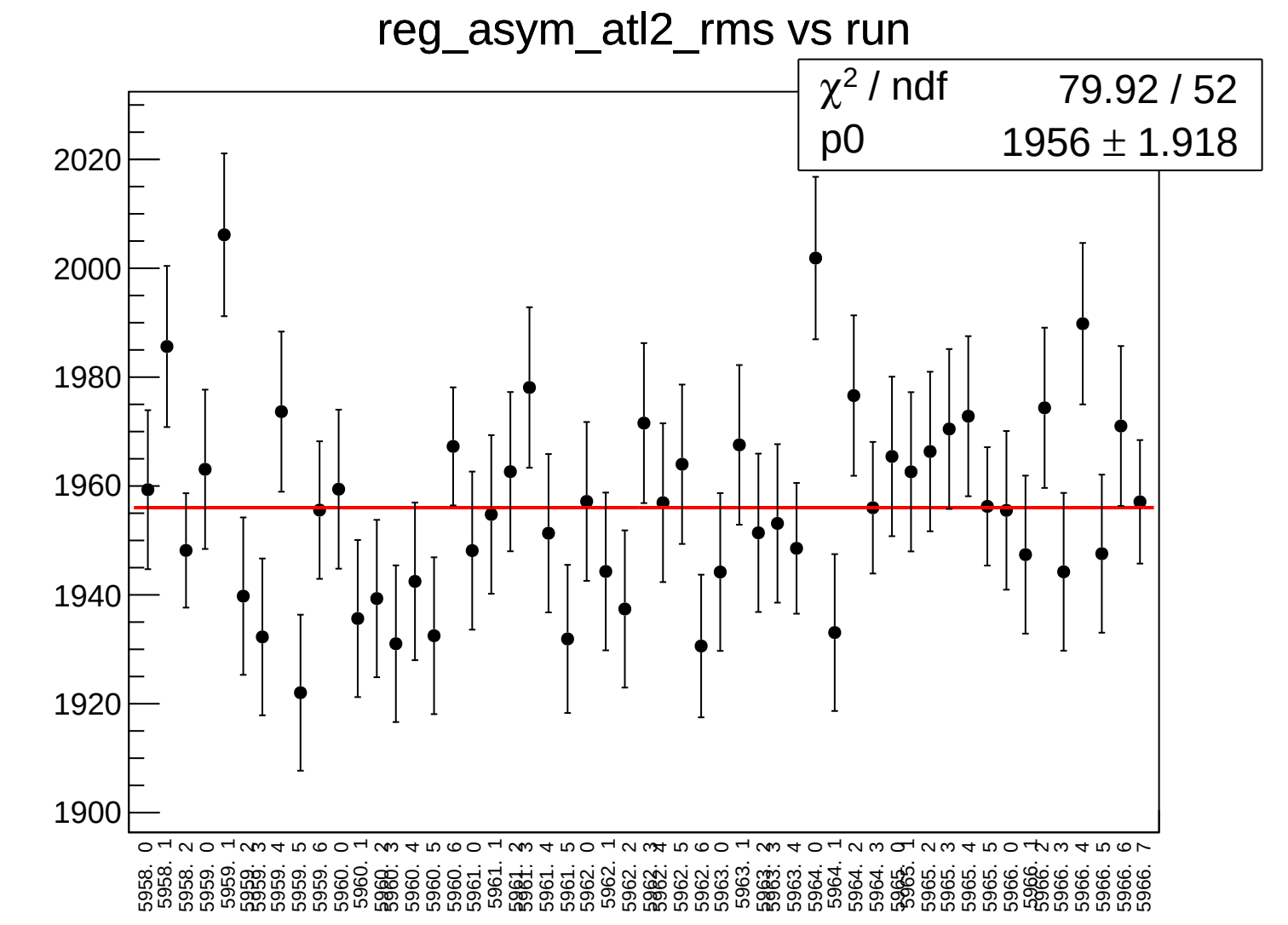

asym_atl1_mean vs run
χ² / ndf 33.94 / 52
p0 3758 ± 3701
pull
Entries 53
Mean −53.21
Std Dev 96.45

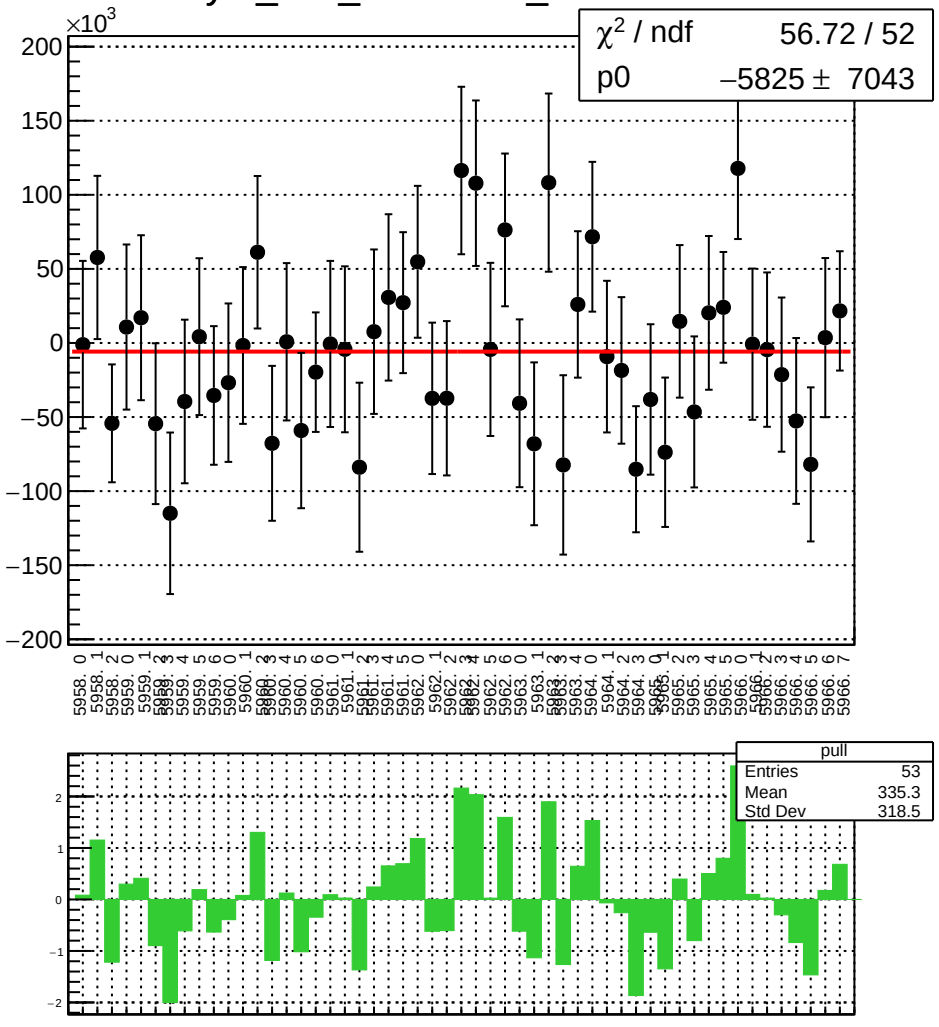

pull1D
Entries 53
Mean −0.01177
Std Dev 0.8002

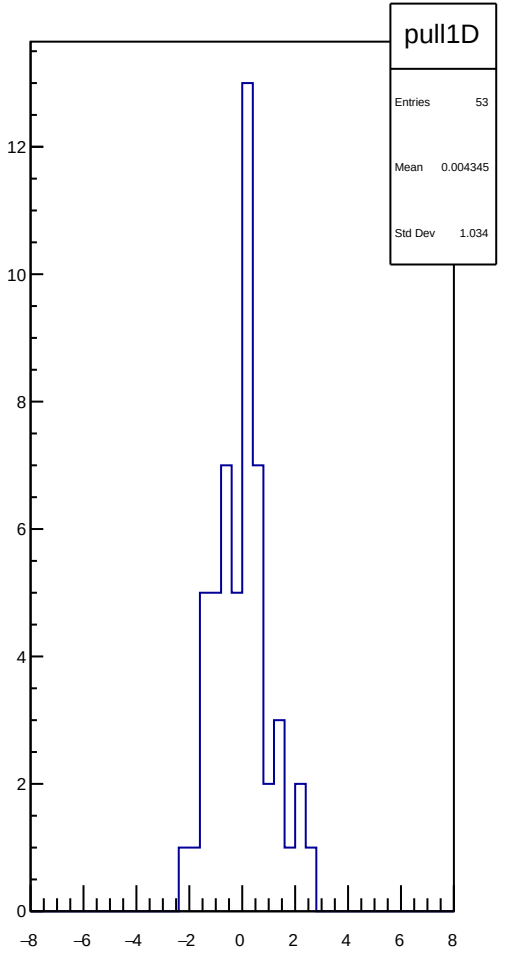

asym_atl1_rms vs run
χ² / ndf 173.5 / 52
p0 2668 ± 2.617
2800
2750
2700
2650
2600

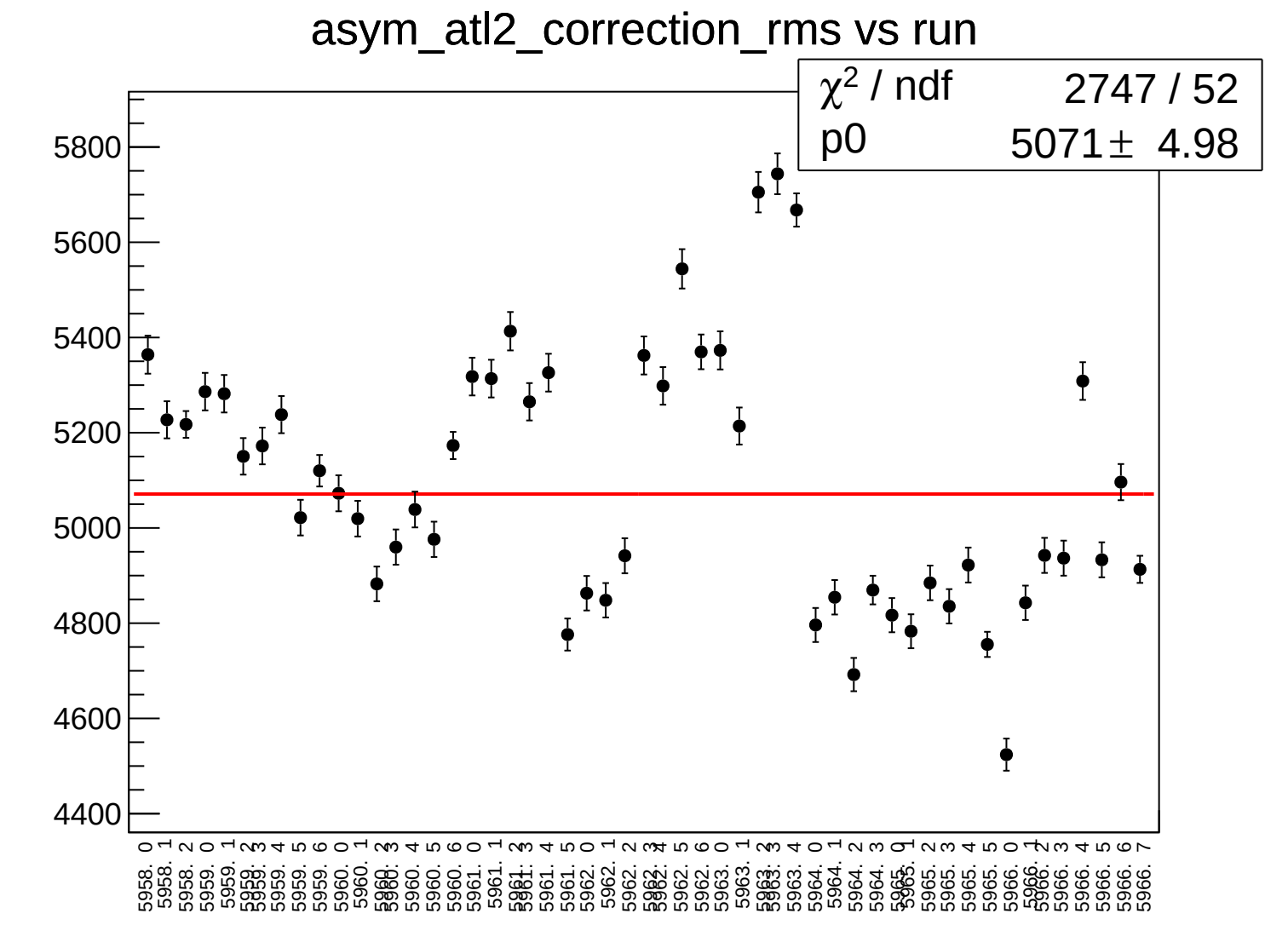

reg_asym_atl2_mean vs run
χ² / ndf 55.25 / 52
p0 −2771 ± 2713
pull
Entries 53
Mean 253.8
Std Dev 231

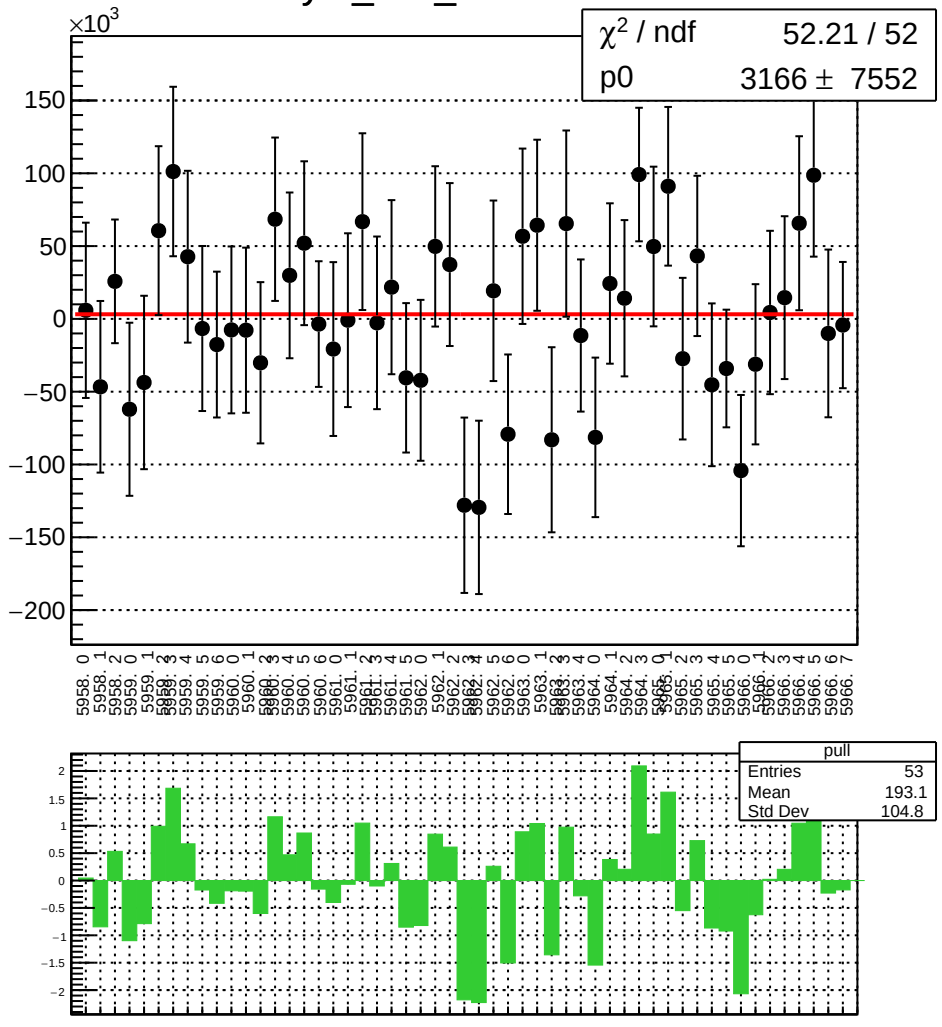

pull1D
Entries 53
Mean 0.01734
Std Dev 1.021

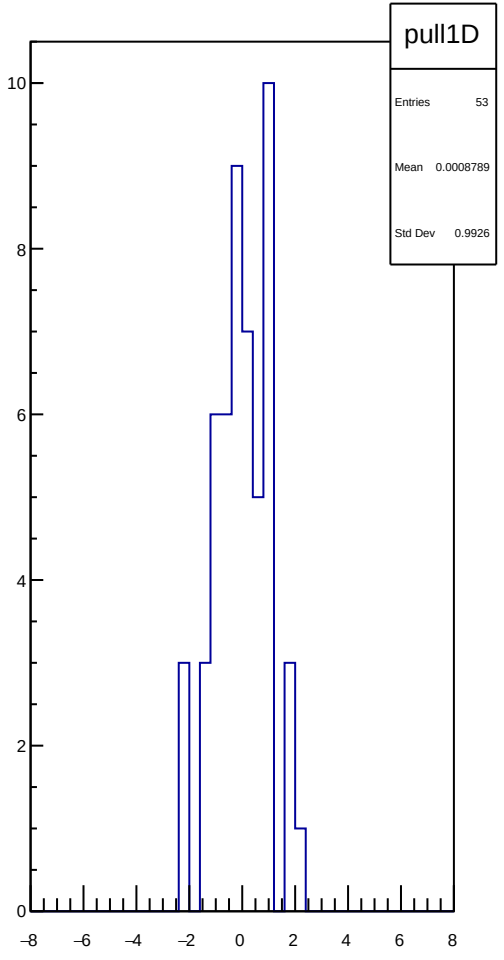

reg_asym_atl2_rms vs run
χ² / ndf 79.92 / 52
p0 1956 ± 1.918
2020
2000
1980
1960
1940
1920
1900

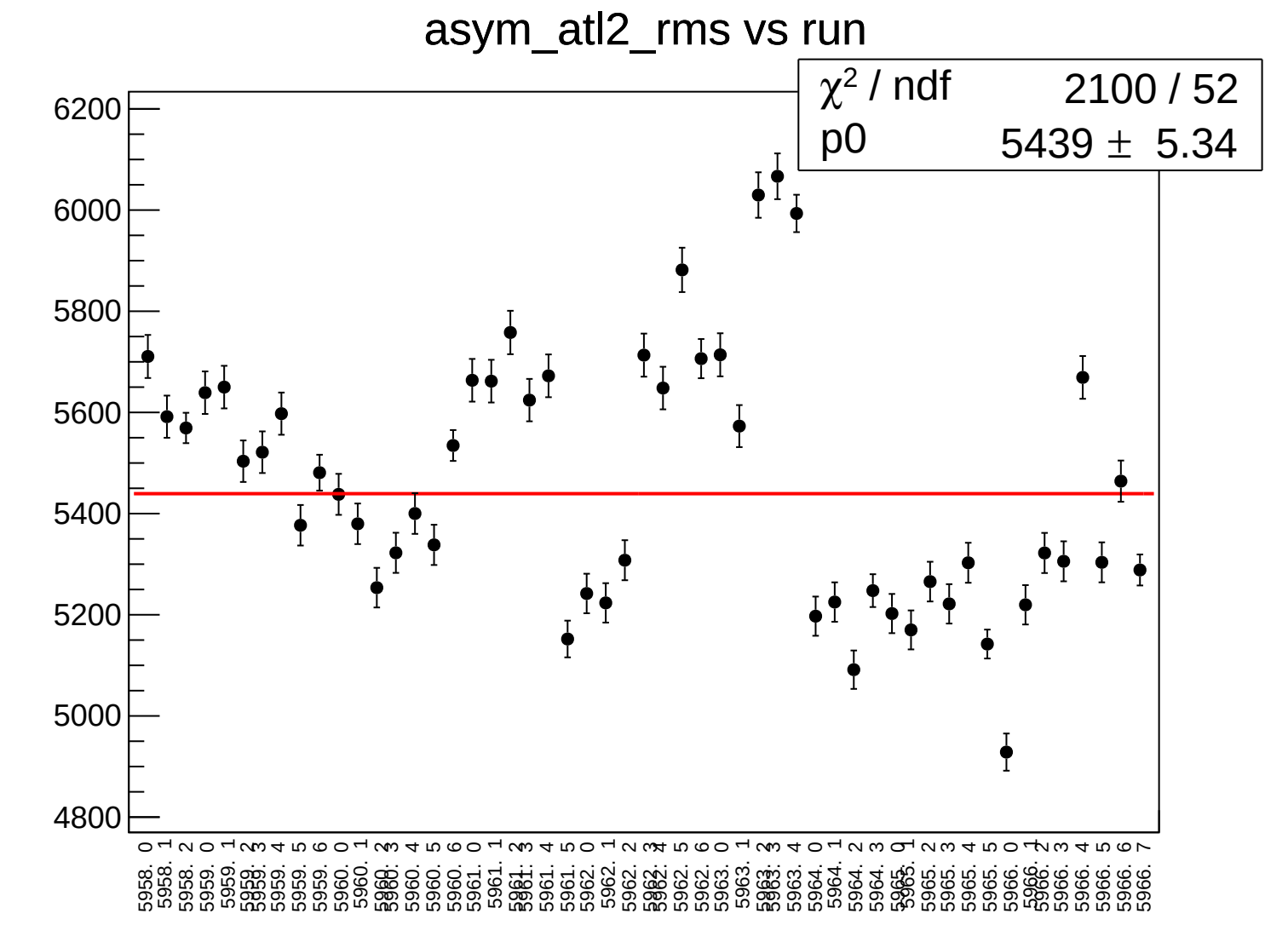

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 56.72 / 52
p0 −5825 ± 7043
pull
Entries 53
Mean 335.3
Std Dev 318.5

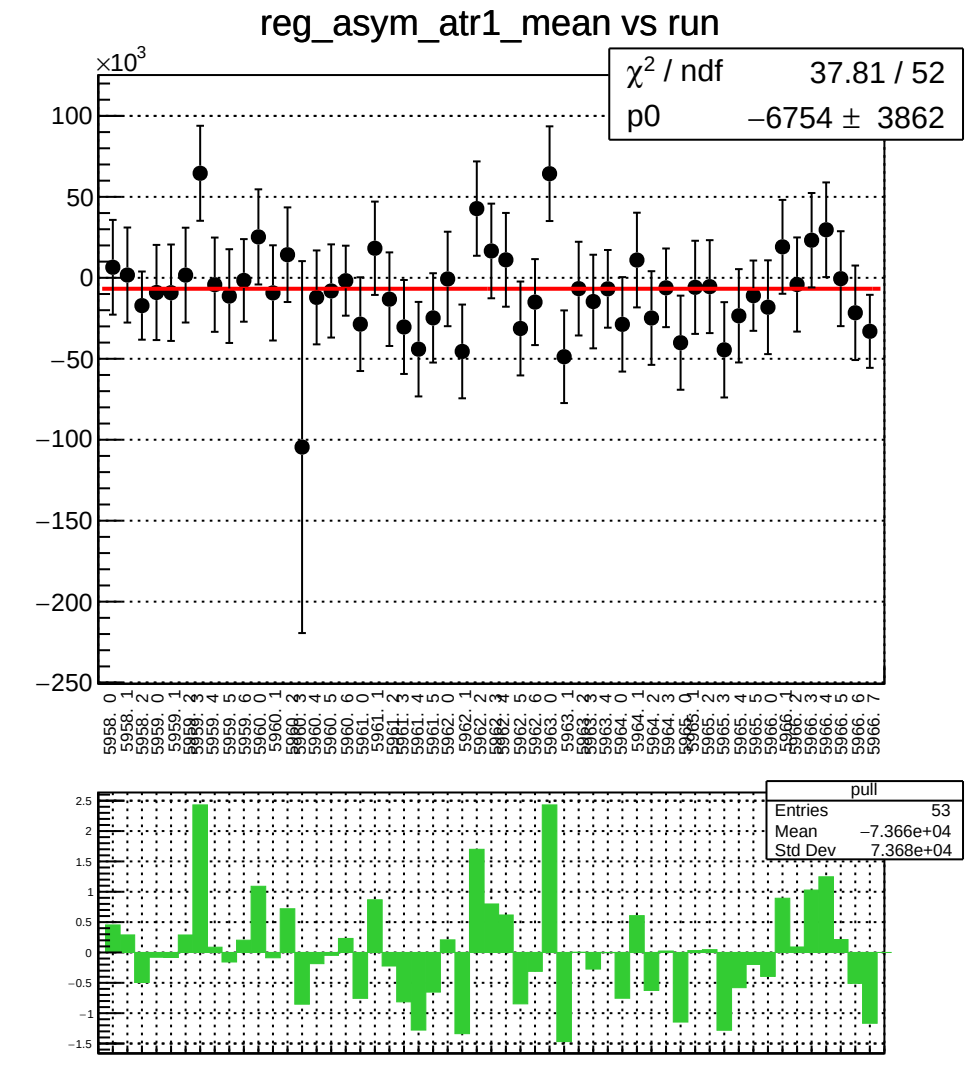

pull1D
Entries 53
Mean 0.004345
Std Dev 1.034

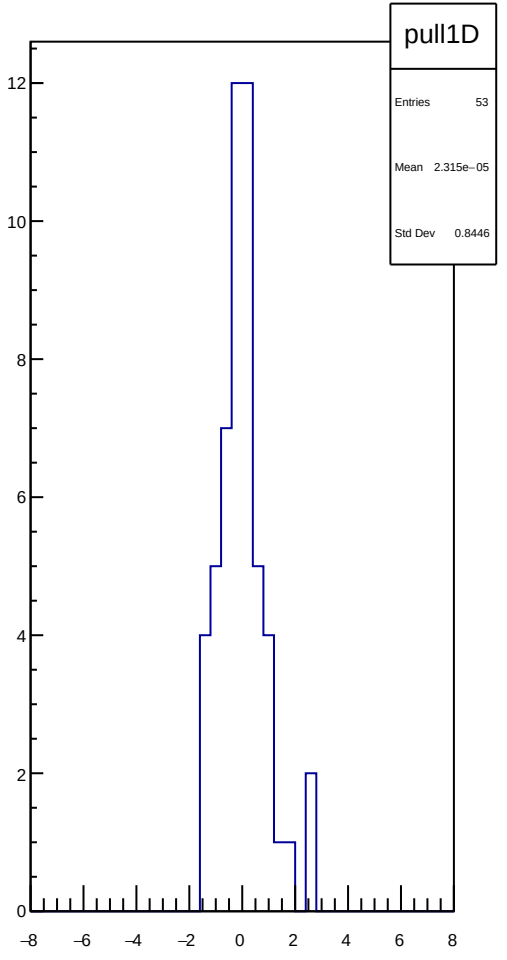

asym_atl2_correction_rms vs run
χ² / ndf 2747 / 52
p0 5071 ± 4.98
5800
5600
5400
5200
5000
4800
4600
4400

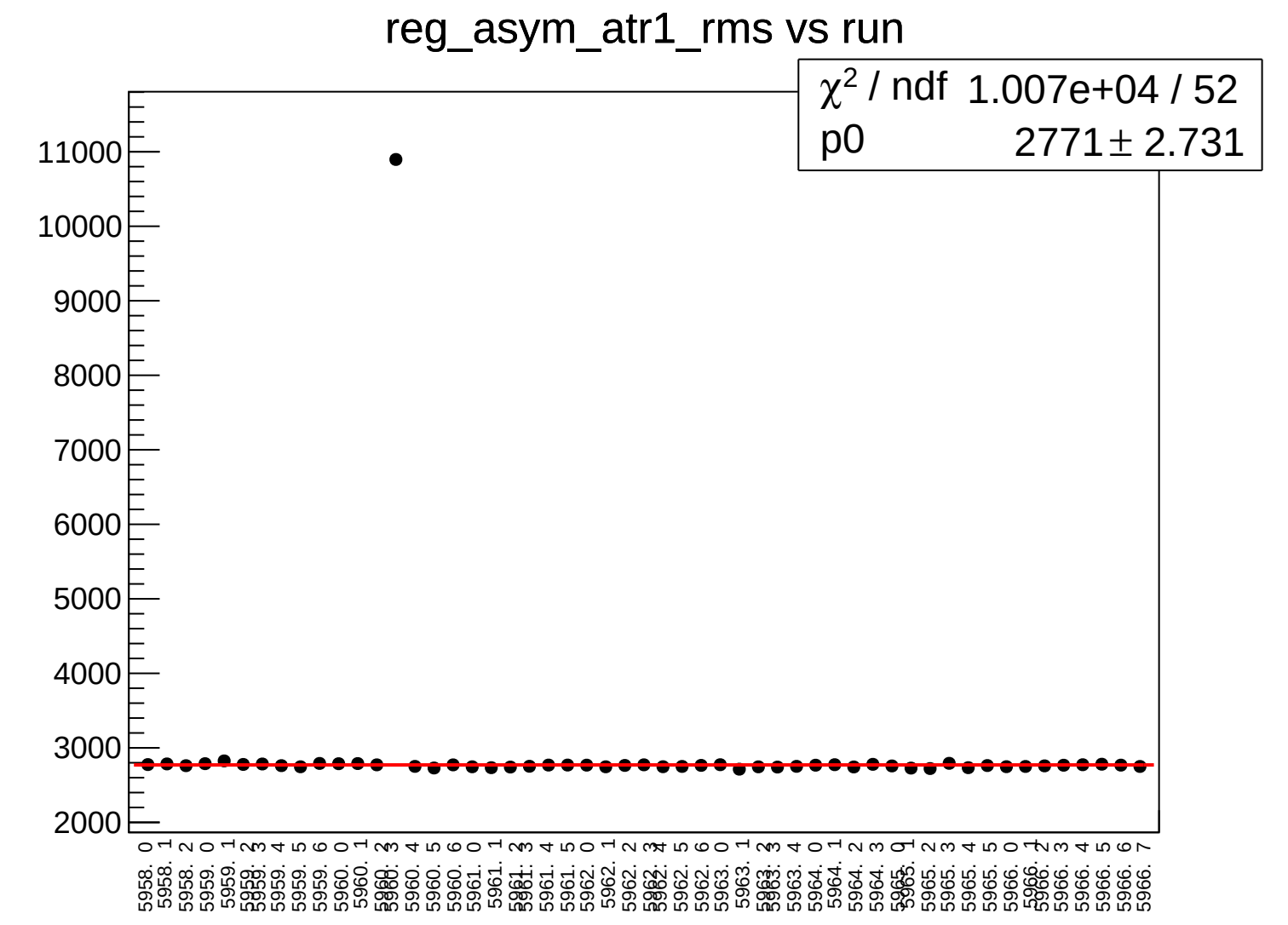

asym_atl2_mean vs run
×10^3
χ^2 / ndf 52.21 / 52
p0 3166 ± 7552
150
100
50
0
−50
−100
−150
−200
pull
Entries 53
Mean 193.1
Std Dev 104.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

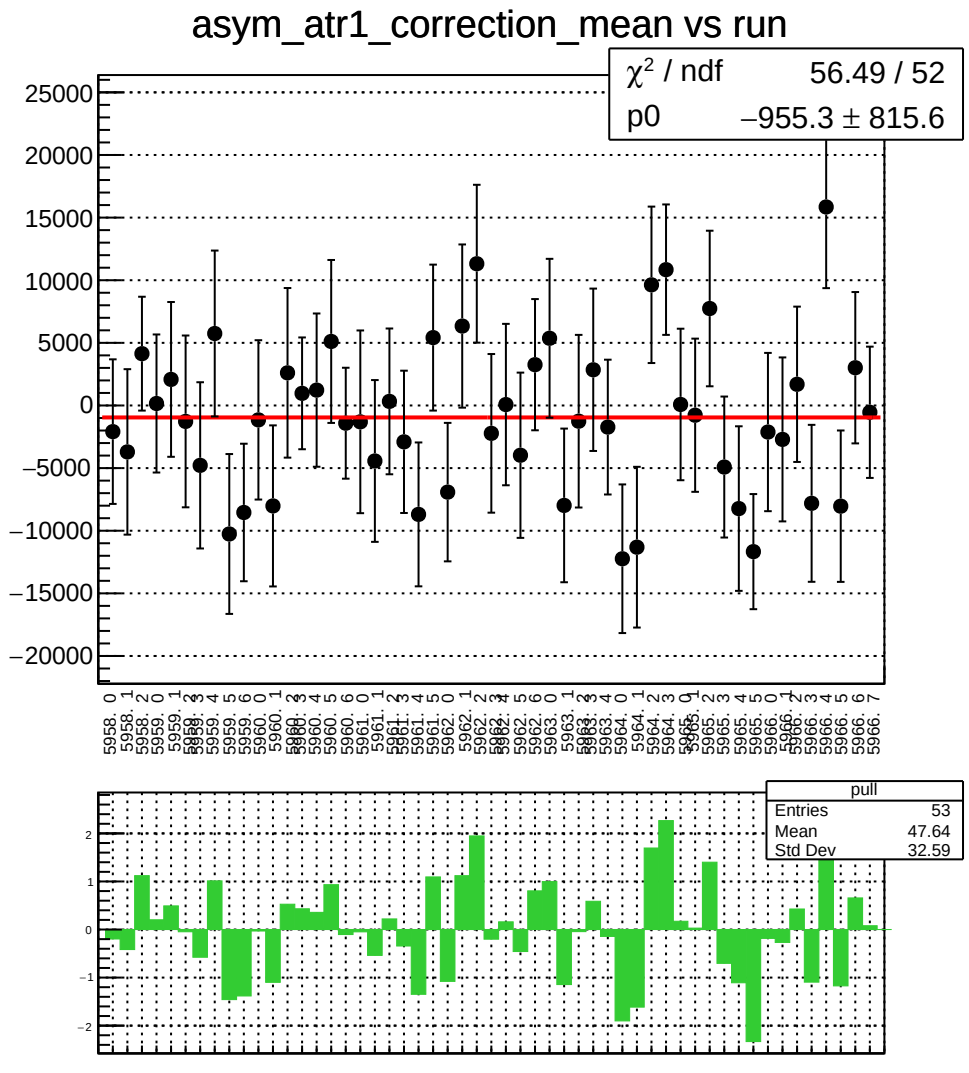

pull1D
Entries 53
Mean 0.0008789
Std Dev 0.9926
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

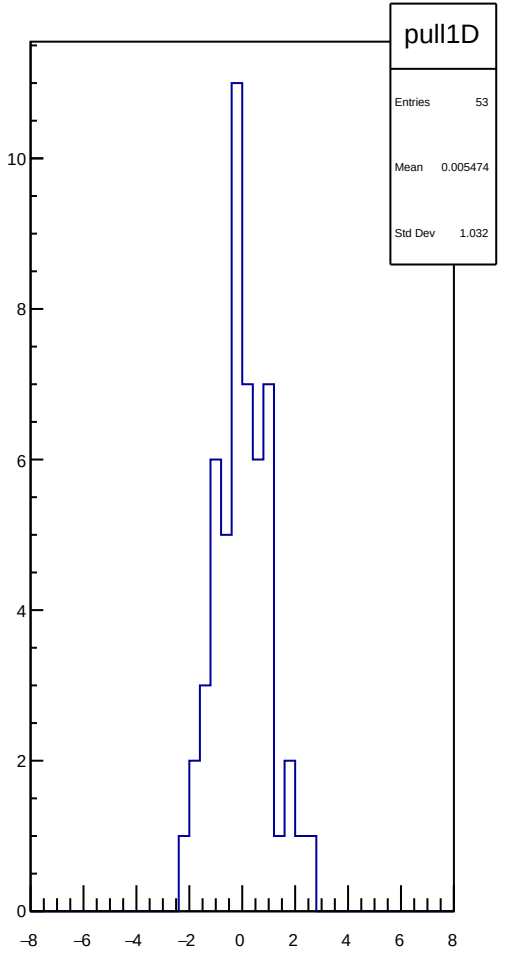

asym_atl2_rms vs run
χ² / ndf 2100 / 52
p0 5439 ± 5.34
6200
6000
5800
5600
5400
5200
5000
4800
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5964. 4
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

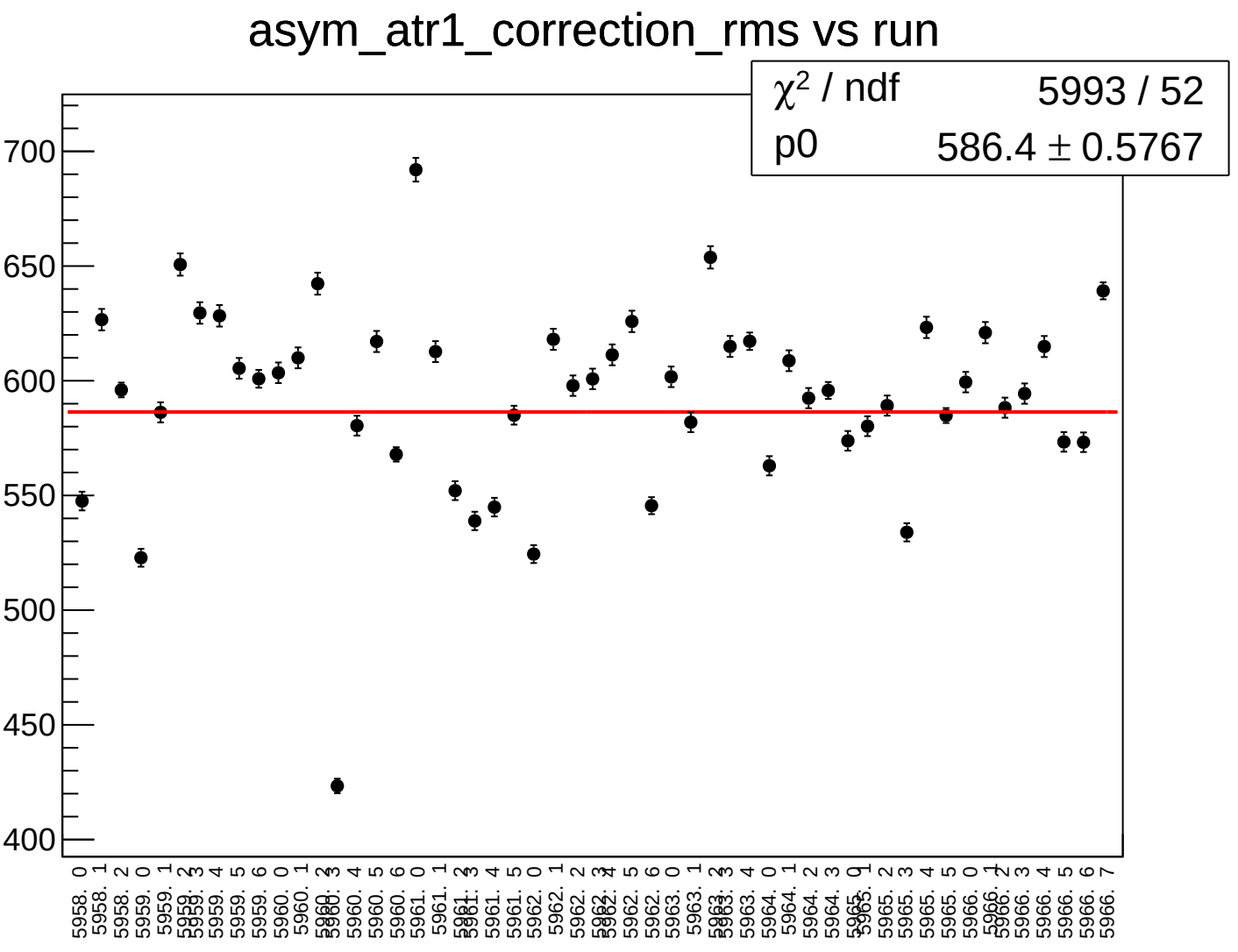

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 37.81 / 52
p0 −6754 ± 3862
pull
Entries 53
Mean −7.366e+04
Std Dev 7.368e+04

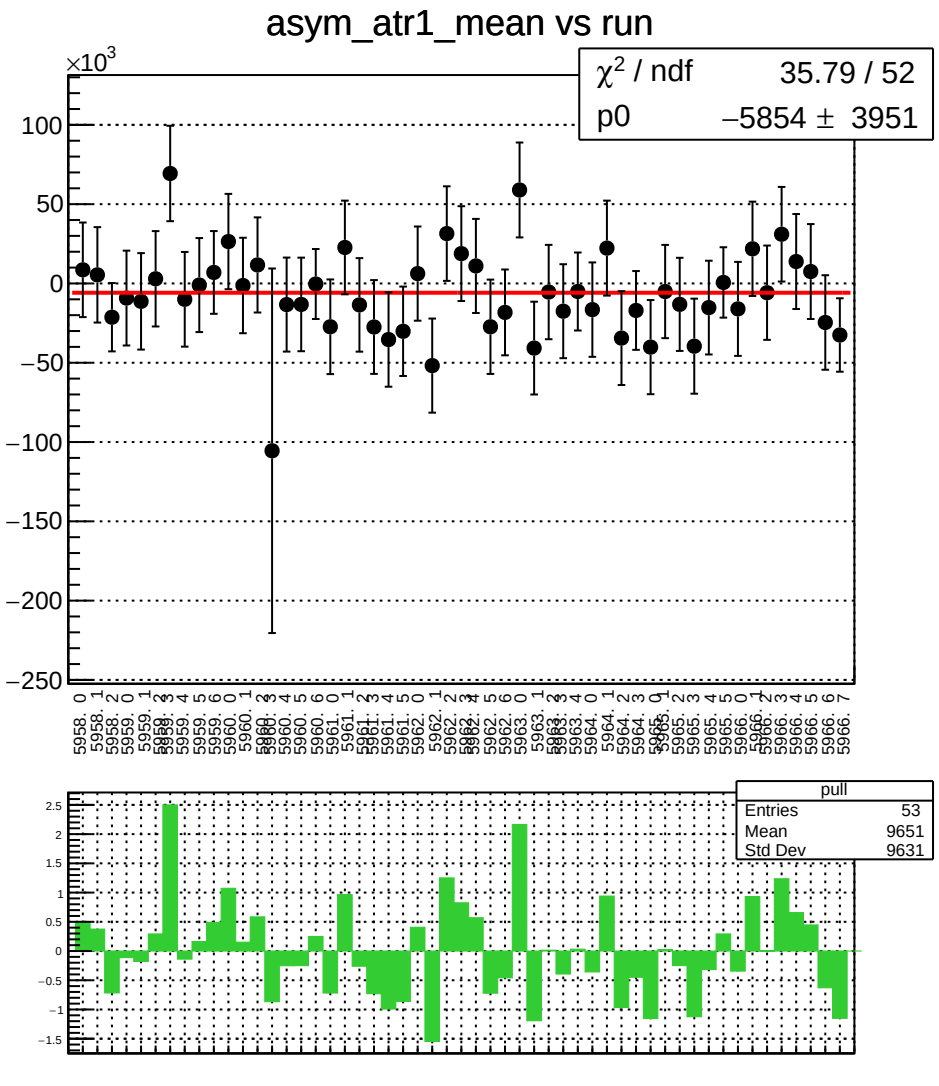

pull1D
Entries 53
Mean 2.315e−05
Std Dev 0.8446

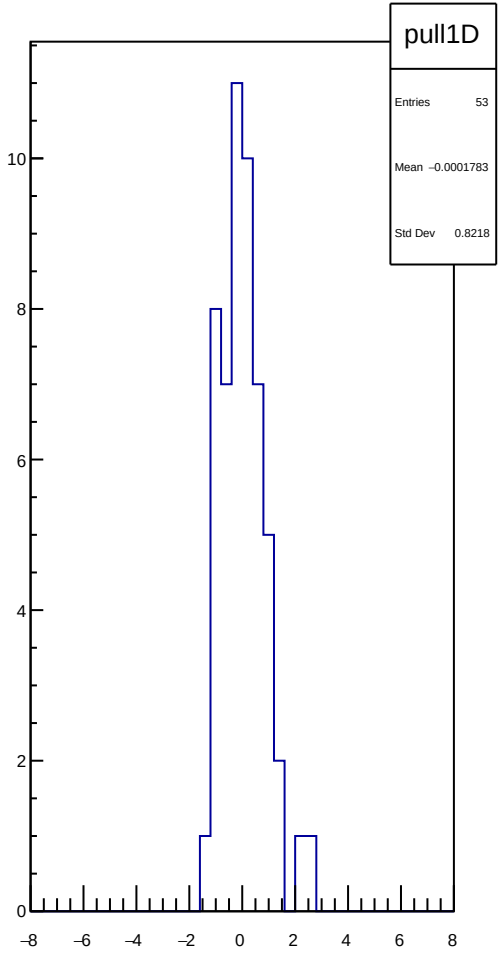

reg_asym_atr1_rms vs run
χ^2 / ndf 1.007e+04 / 52
p0 2771 ± 2.731
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

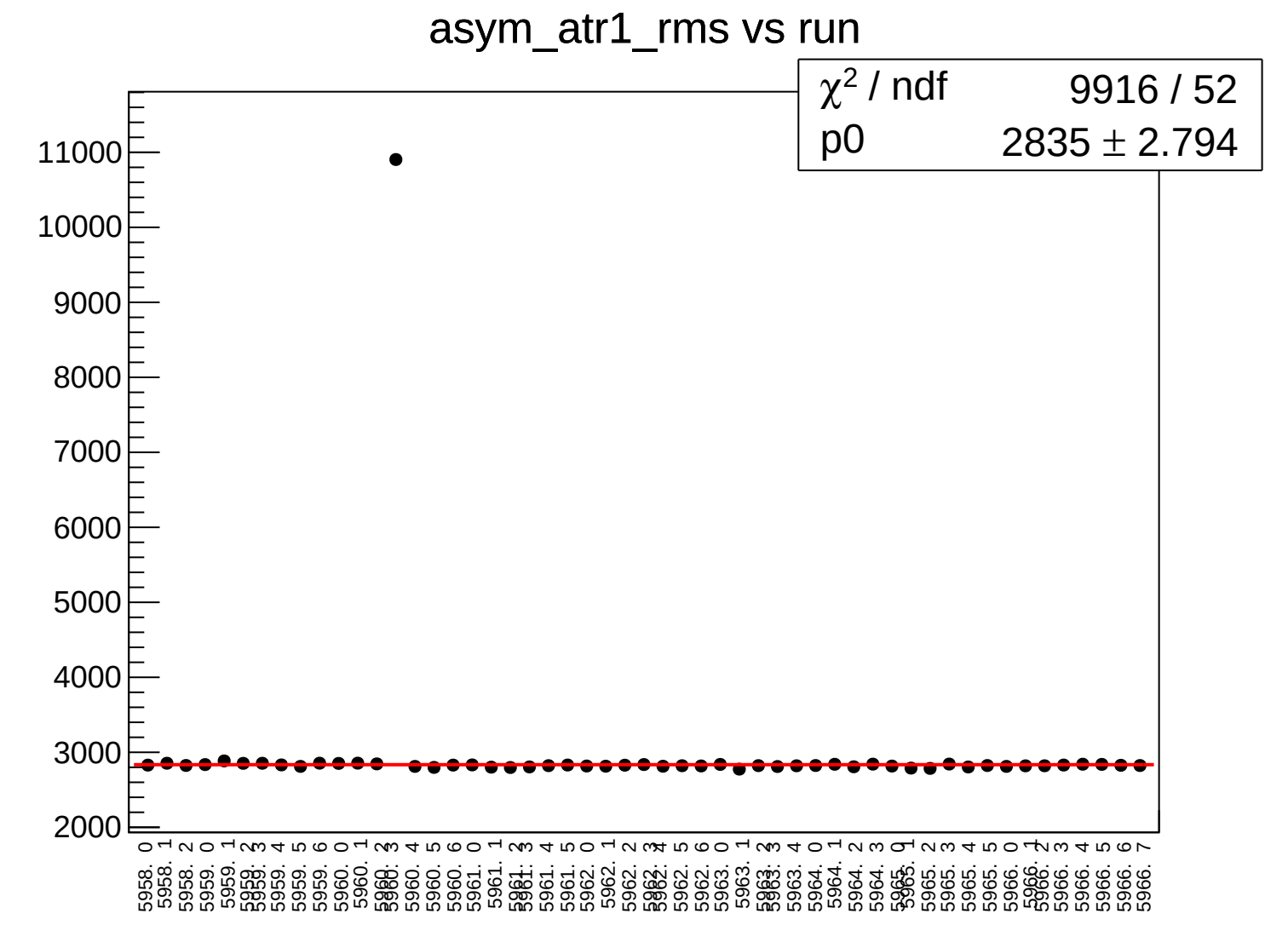

asym_atr1_correction_mean vs run
χ² / ndf 56.49 / 52
p0 −955.3 ± 815.6
pull
Entries 53
Mean 47.64
Std Dev 32.59

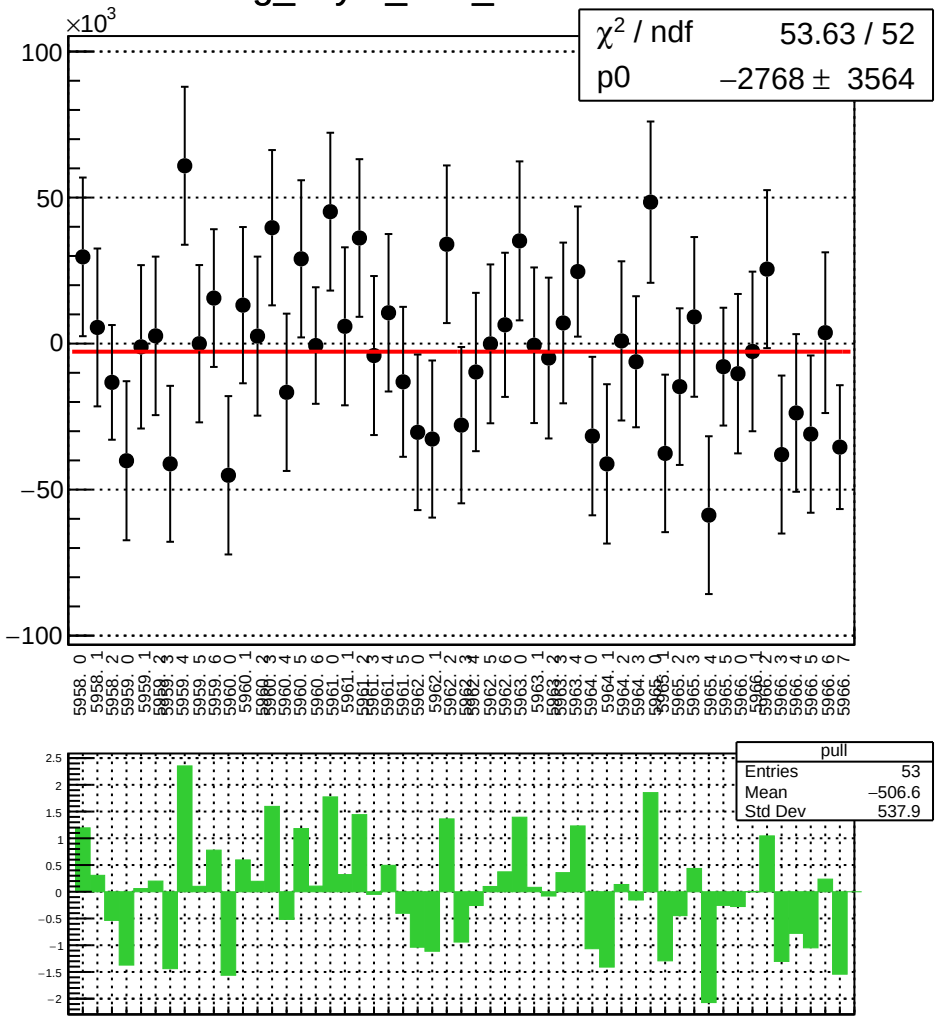

pull1D
Entries 53
Mean 0.005474
Std Dev 1.032

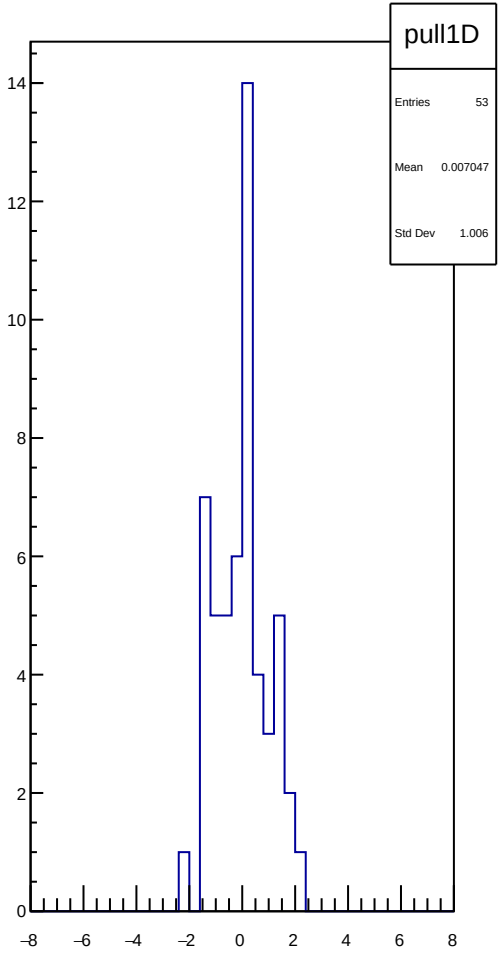

asym_atr1_correction_rms vs run
χ² / ndf 5993 / 52
p0 586.4 ± 0.5767
700
650
600
550
500
450
400

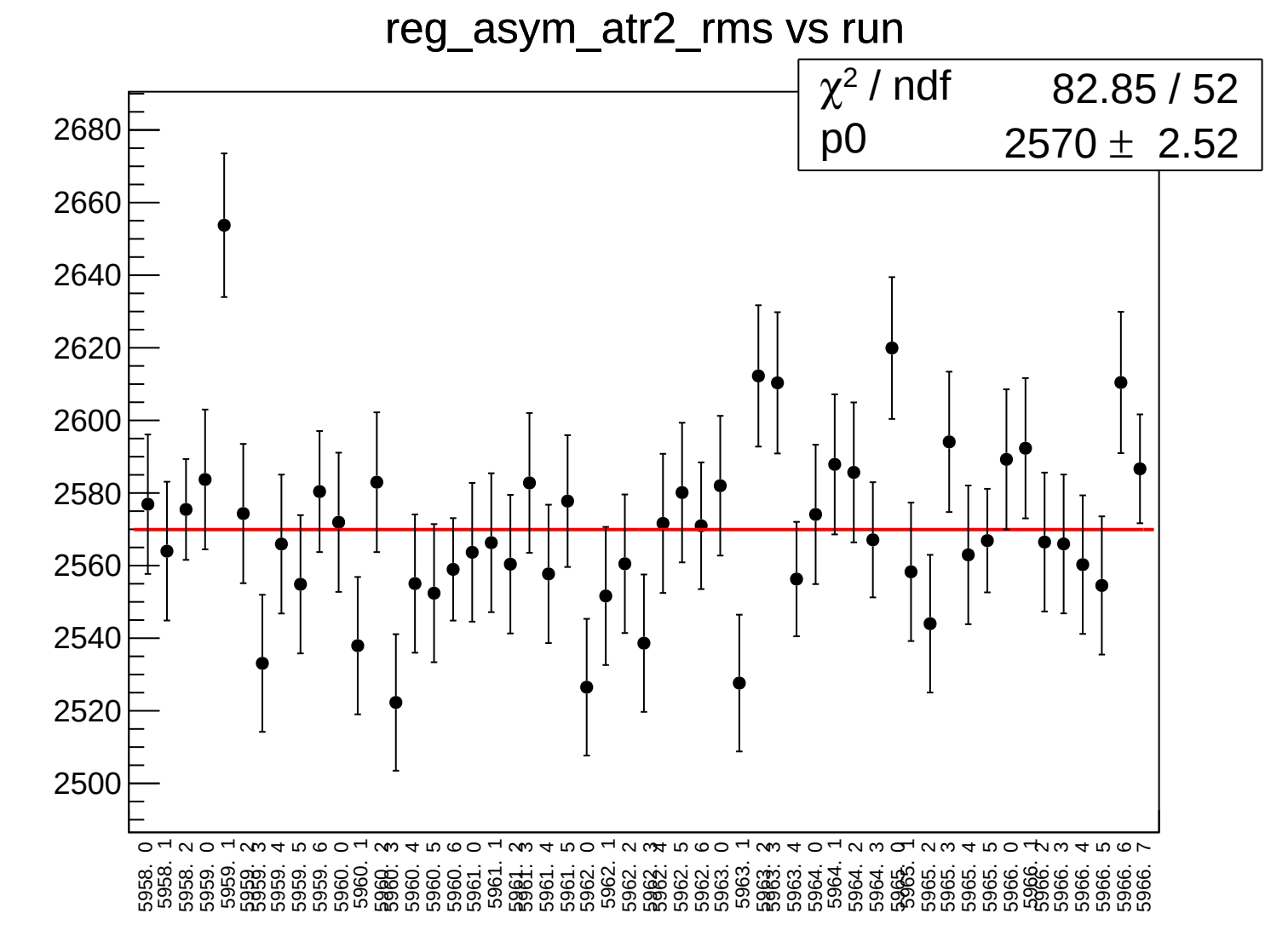

asym_atr1_mean vs run
×10^3
χ² / ndf 35.79 / 52
p0 −5854 ± 3951
100
50
0
−50
−100
−150
−200
−250
pull
Entries 53
Mean 9651
Std Dev 9631
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

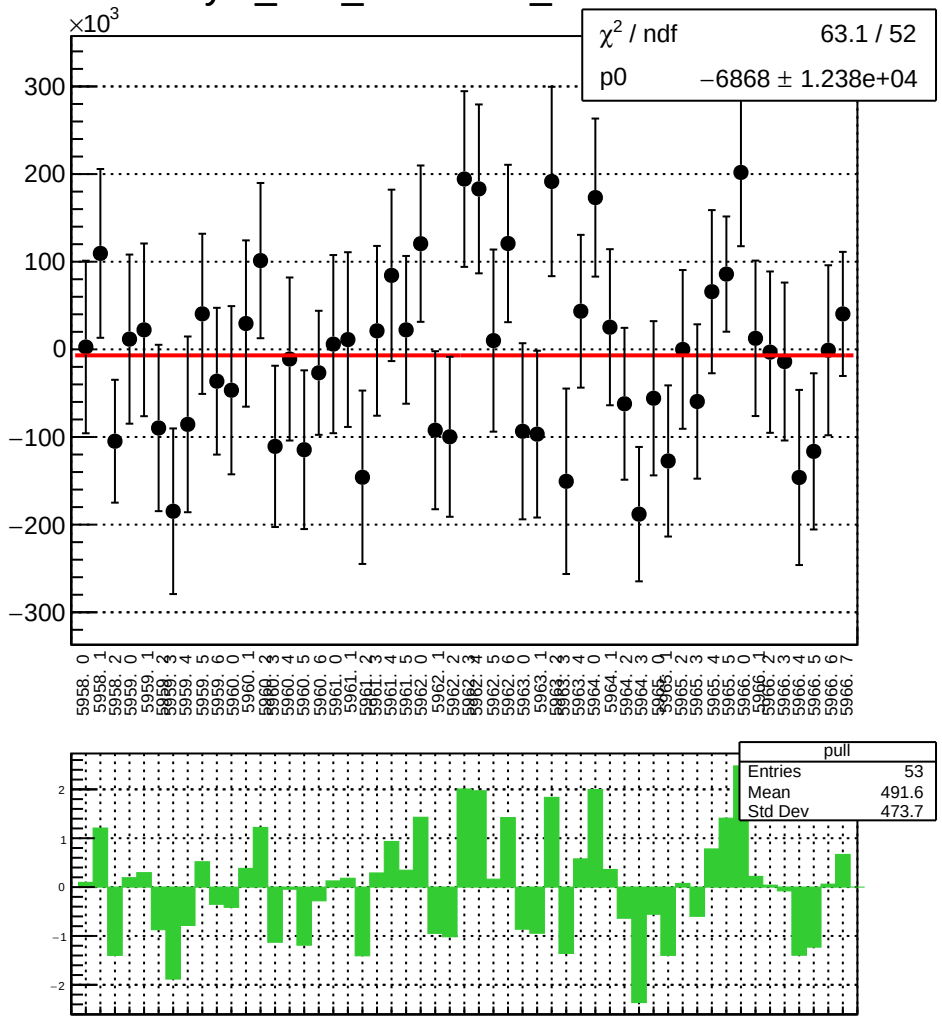

pull1D
Entries 53
Mean −0.0001783
Std Dev 0.8218
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

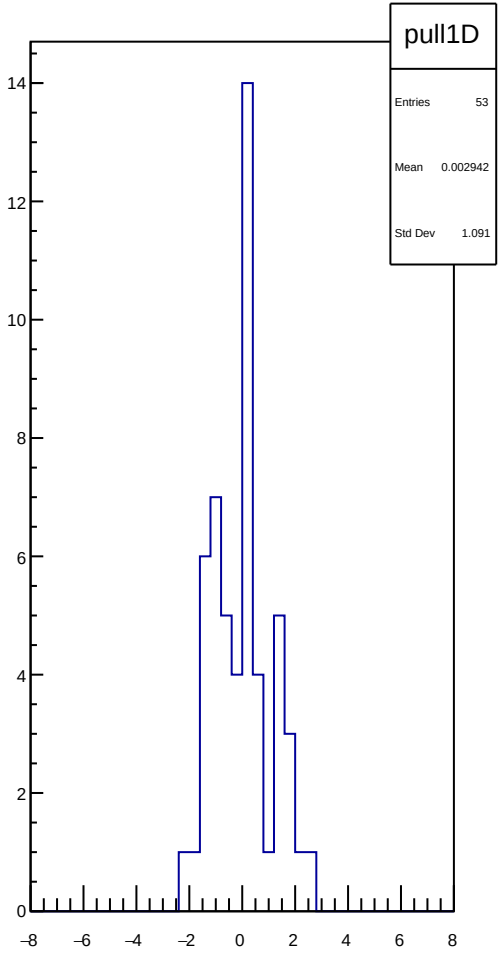

asym_atr1_rms vs run
χ^2 / ndf 9916 / 52
p0 2835 ± 2.794
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

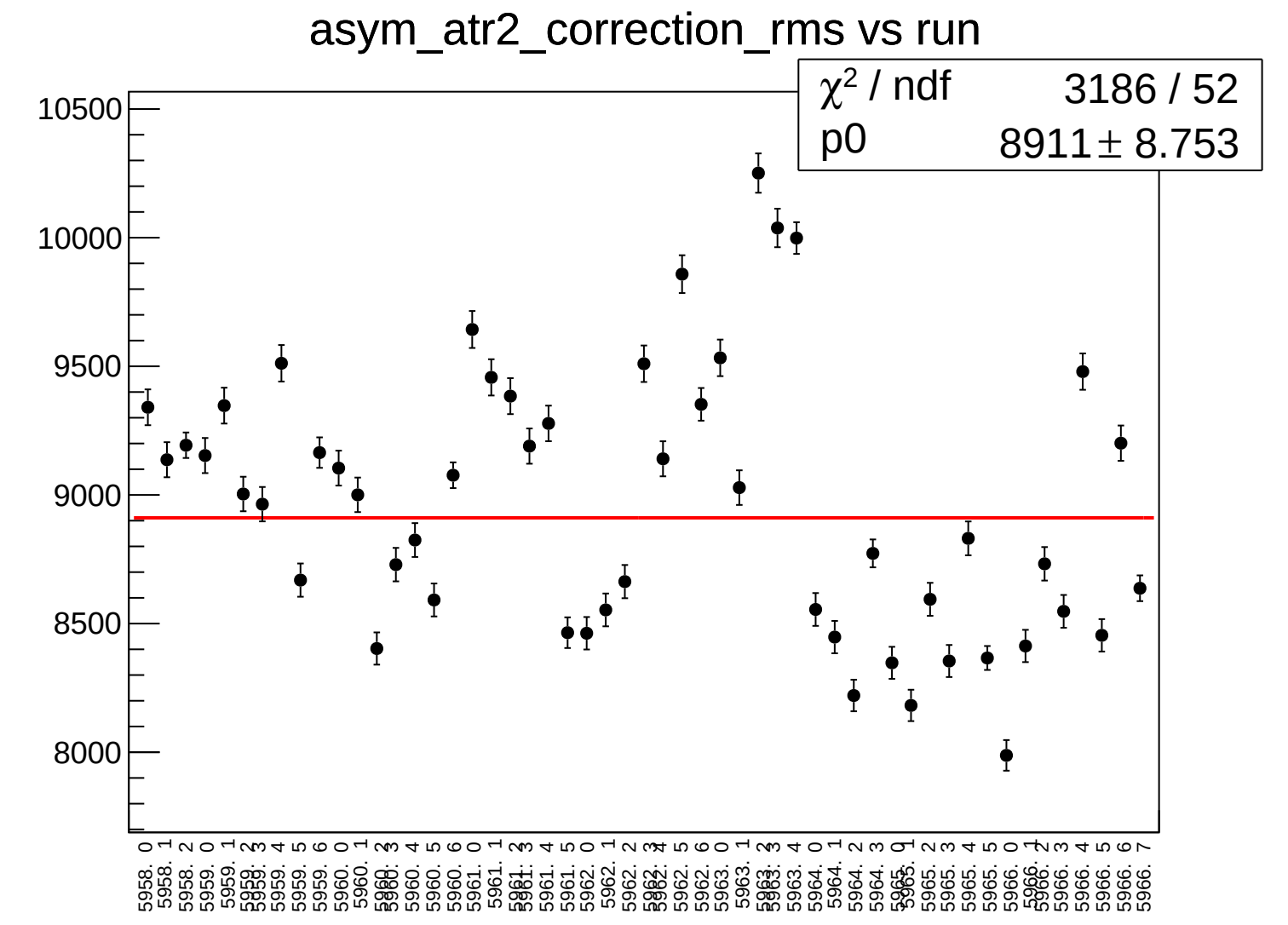

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 53.63 / 52
p0 −2768 ± 3564
pull
Entries 53
Mean −506.6
Std Dev 537.9

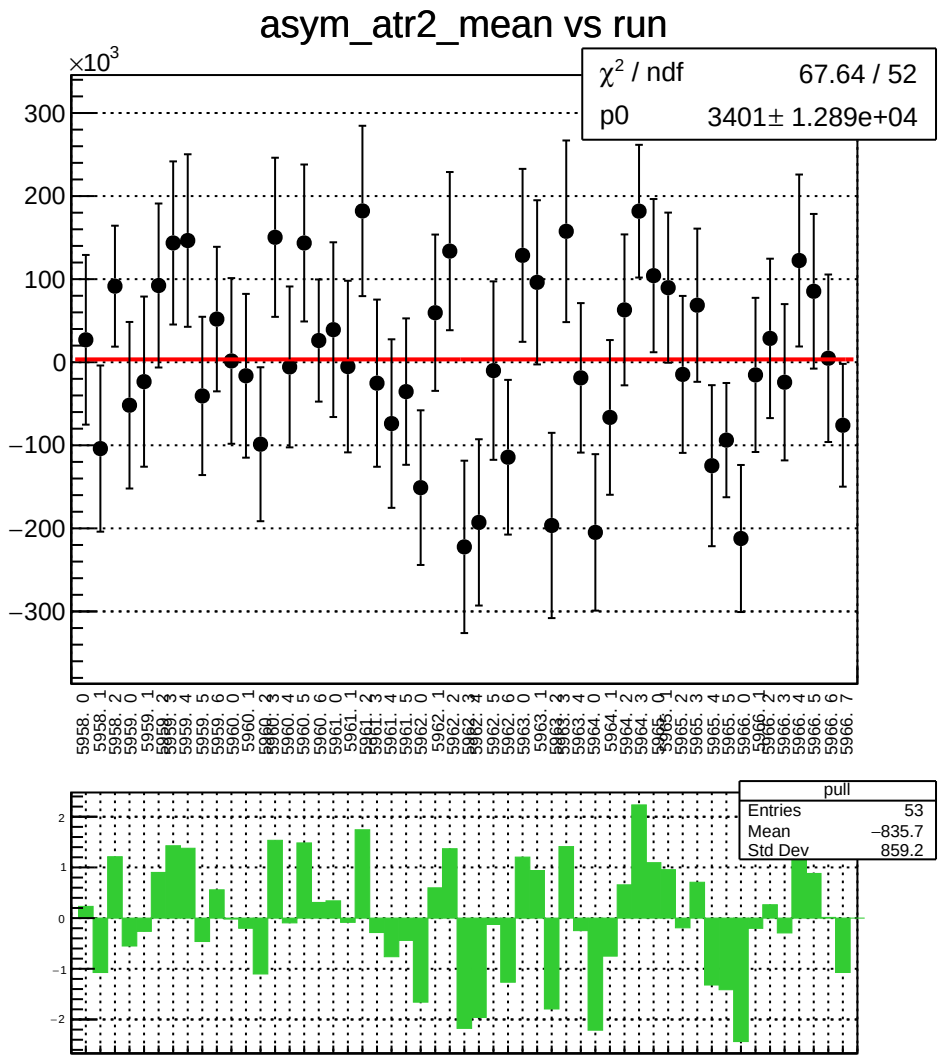

pull1D
Entries 53
Mean 0.007047
Std Dev 1.006

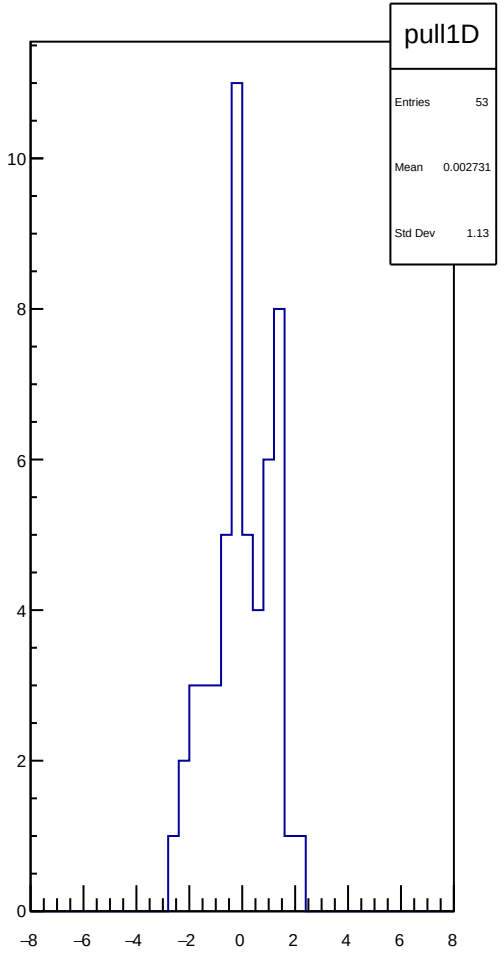

reg_asym_atr2_rms vs run
χ² / ndf 82.85 / 52
p0 2570 ± 2.52
2680
2660
2640
2620
2600
2580
2560
2540
2520
2500
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5964. 4
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

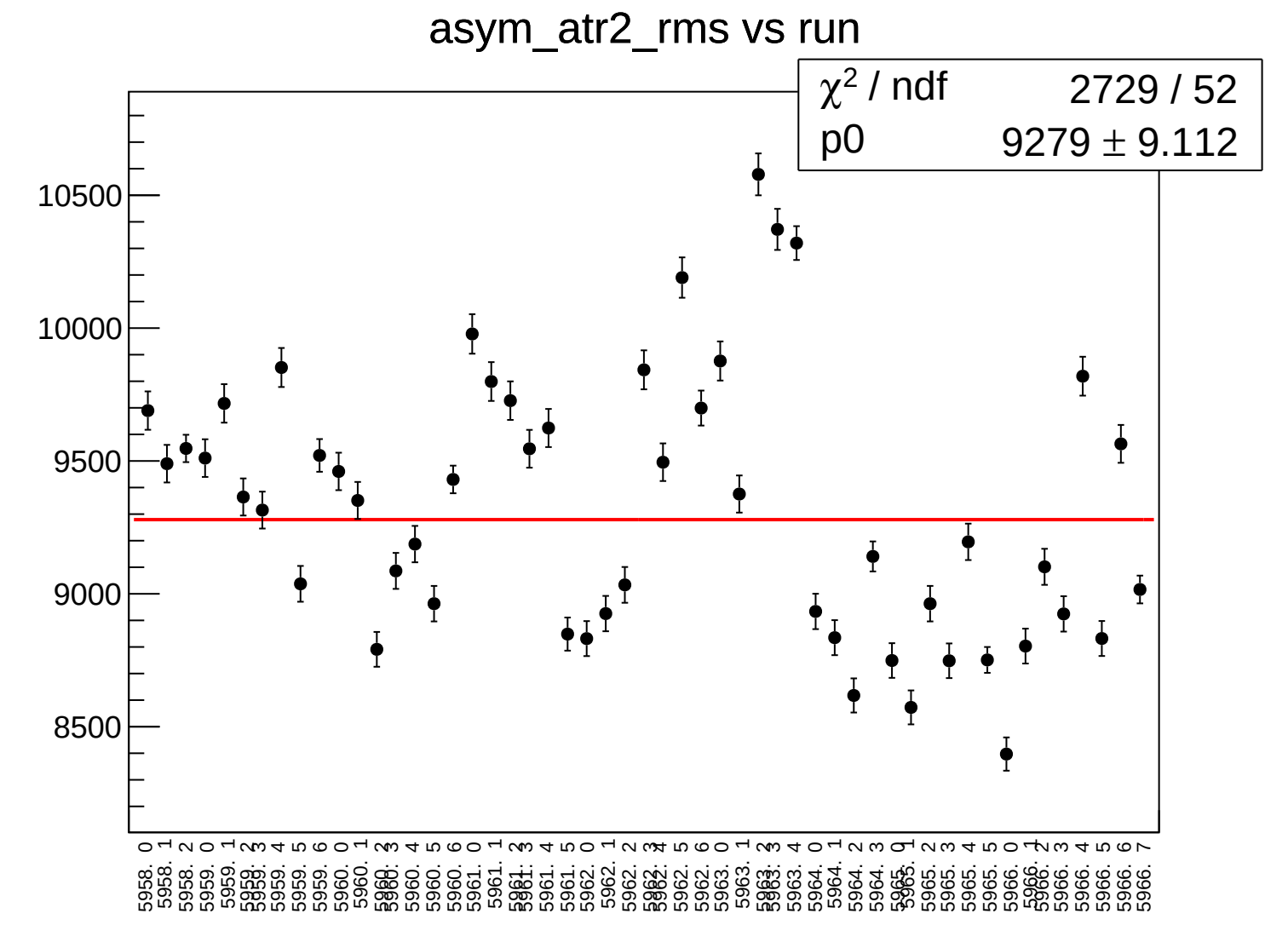

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 63.1 / 52
p0 −6868 ± 1.238e+04
pull
Entries 53
Mean 491.6
Std Dev 473.7

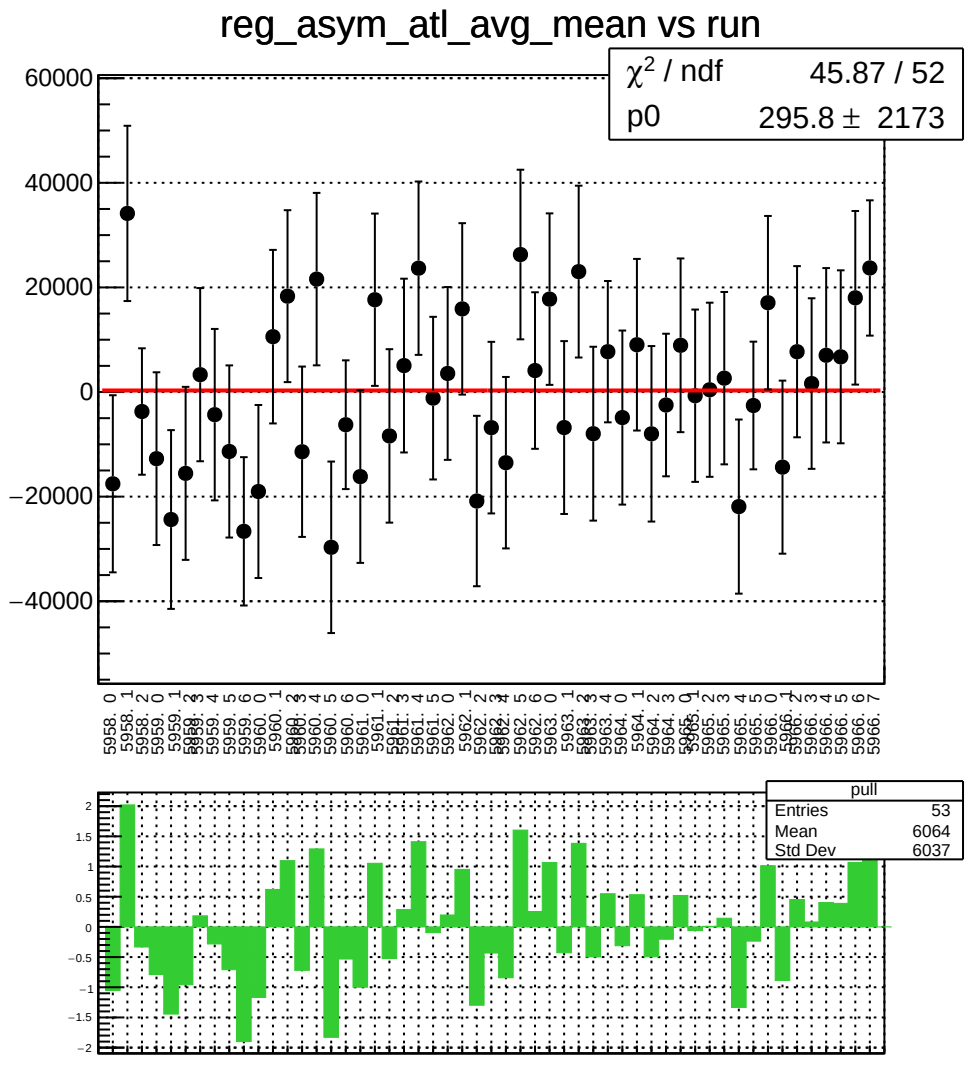

pull1D
Entries 53
Mean 0.002942
Std Dev 1.091

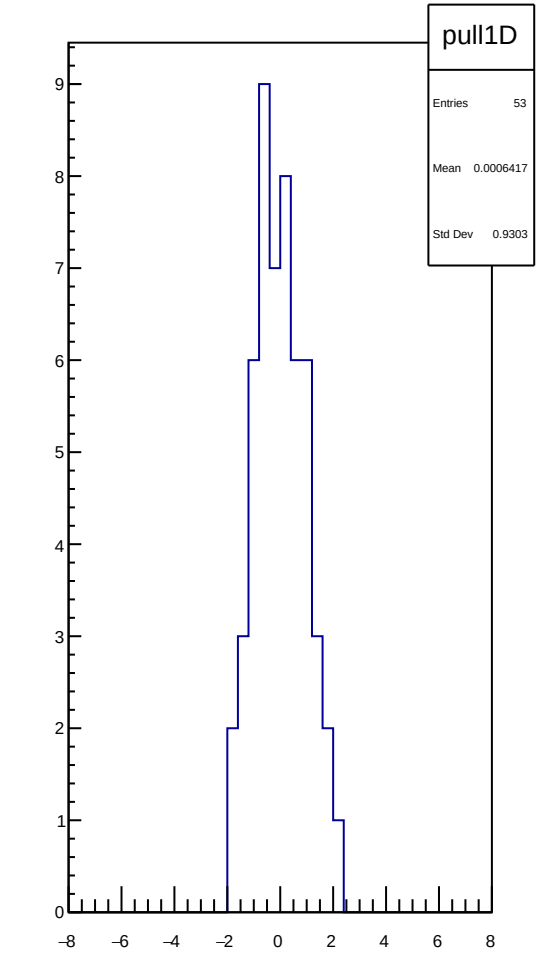

asym_atr2_correction_rms vs run
χ² / ndf 3186 / 52
p0 8911 ± 8.753
10500
10000
9500
9000
8500
8000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

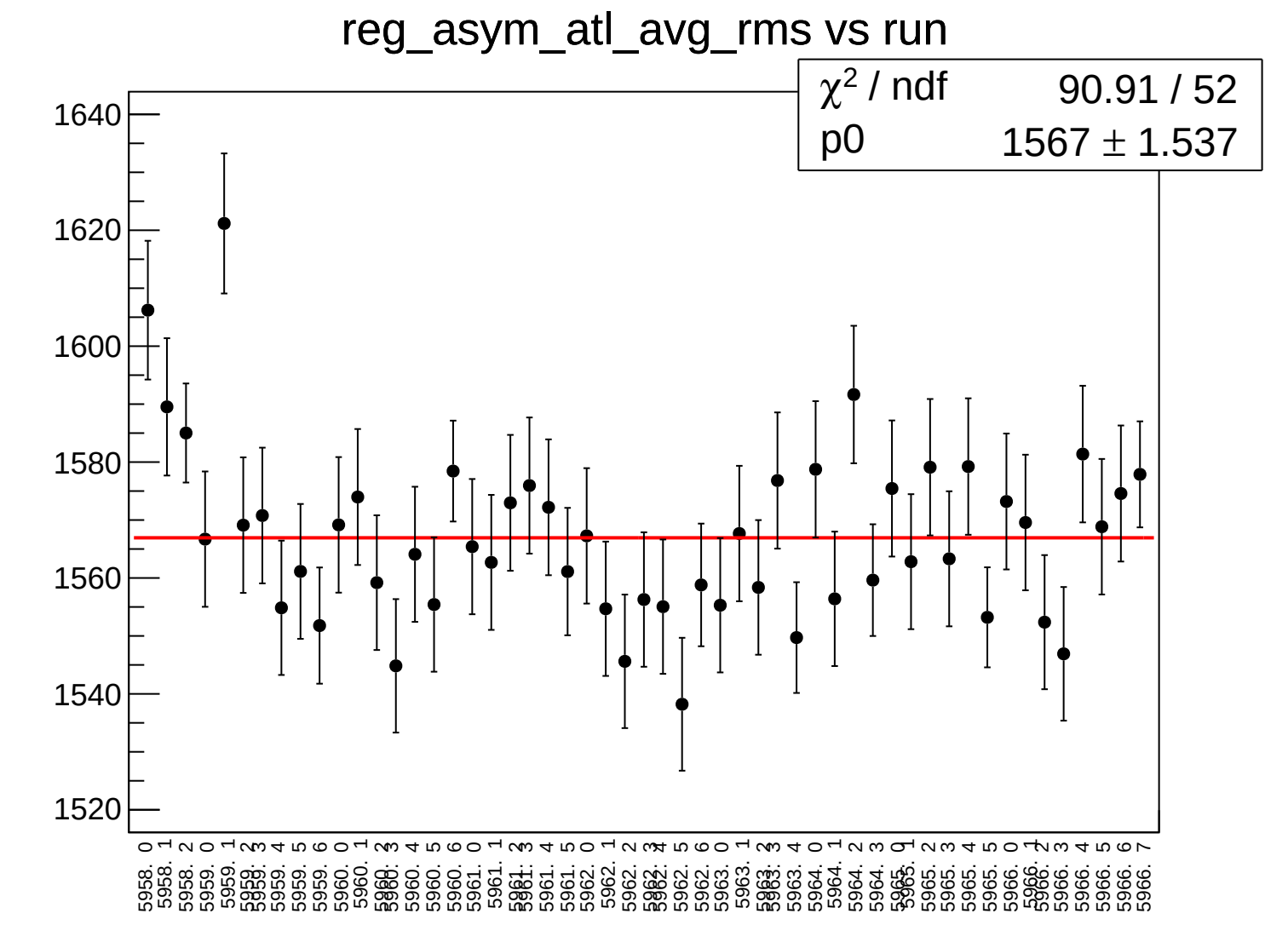

asym_atr2_mean vs run
×10^3
χ² / ndf 67.64 / 52
p0 3401± 1.289e+04
300
200
100
0
−100
−200
−300
pull
Entries 53
Mean −835.7
Std Dev 859.2
2
1
0
−1
−2


pull1D
Entries 53
Mean 0.002731
Std Dev 1.13
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_rms vs run
χ² / ndf 2729 / 52
p0 9279 ± 9.112
10500
10000
9500
9000
8500


reg_asym_atl_avg_mean vs run
χ² / ndf 45.87 / 52
p0 295.8 ± 2173
pull
Entries 53
Mean 6064
Std Dev 6037


pull1D
Entries 53
Mean 0.0006417
Std Dev 0.9303


reg_asym_atl_avg_rms vs run
χ² / ndf 90.91 / 52
p0 1567 ± 1.537
1640
1620
1600
1580
1560
1540
1520
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
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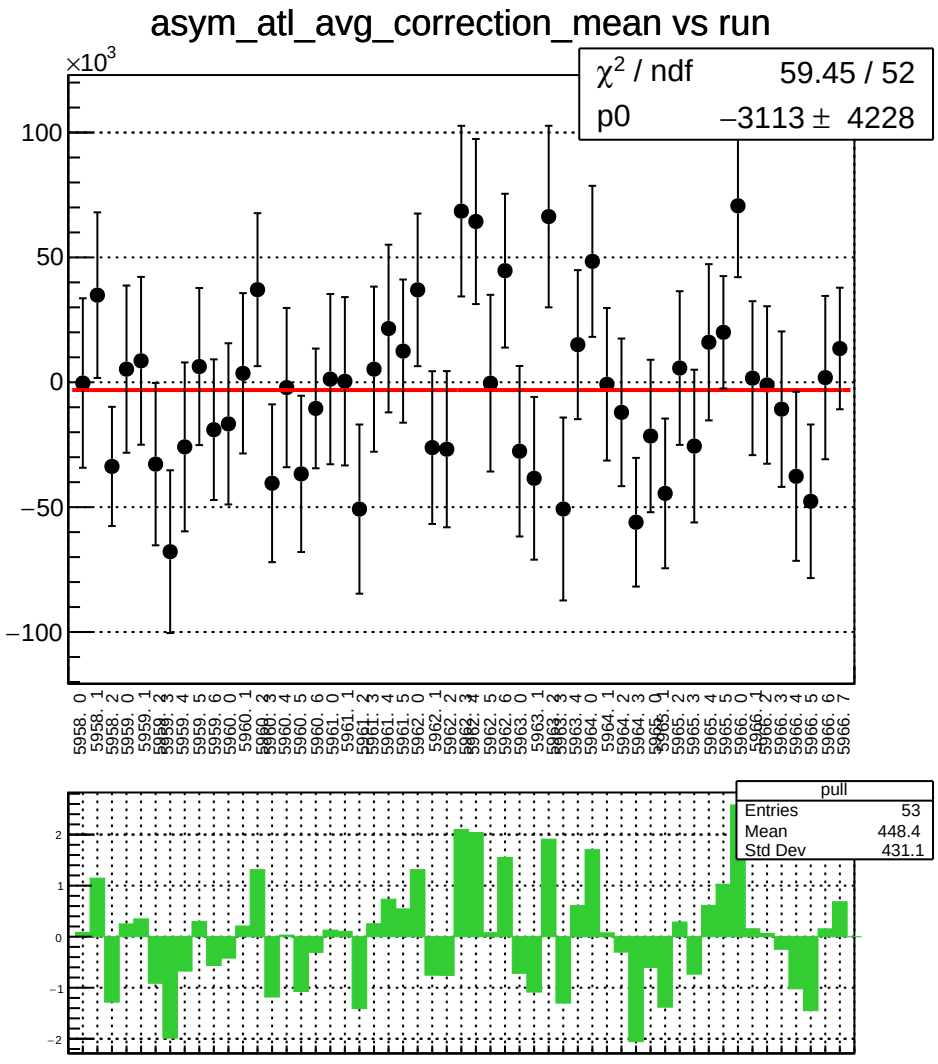
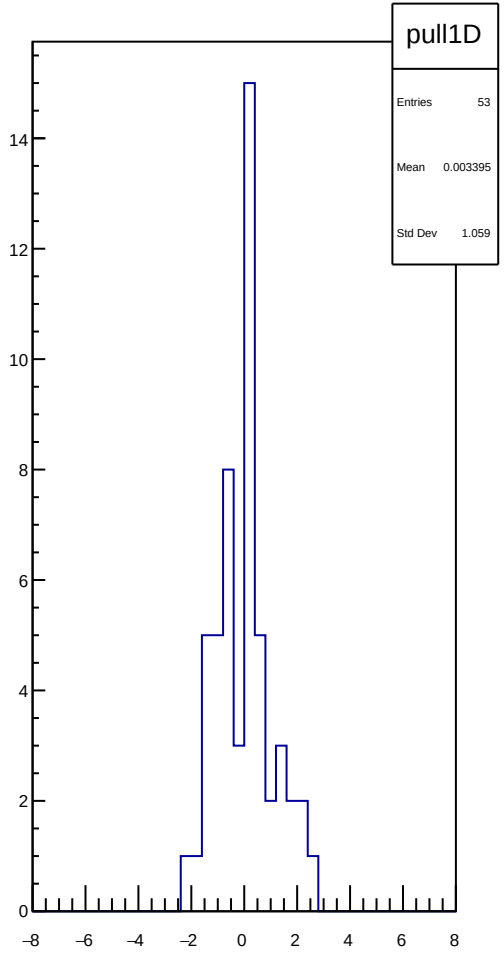
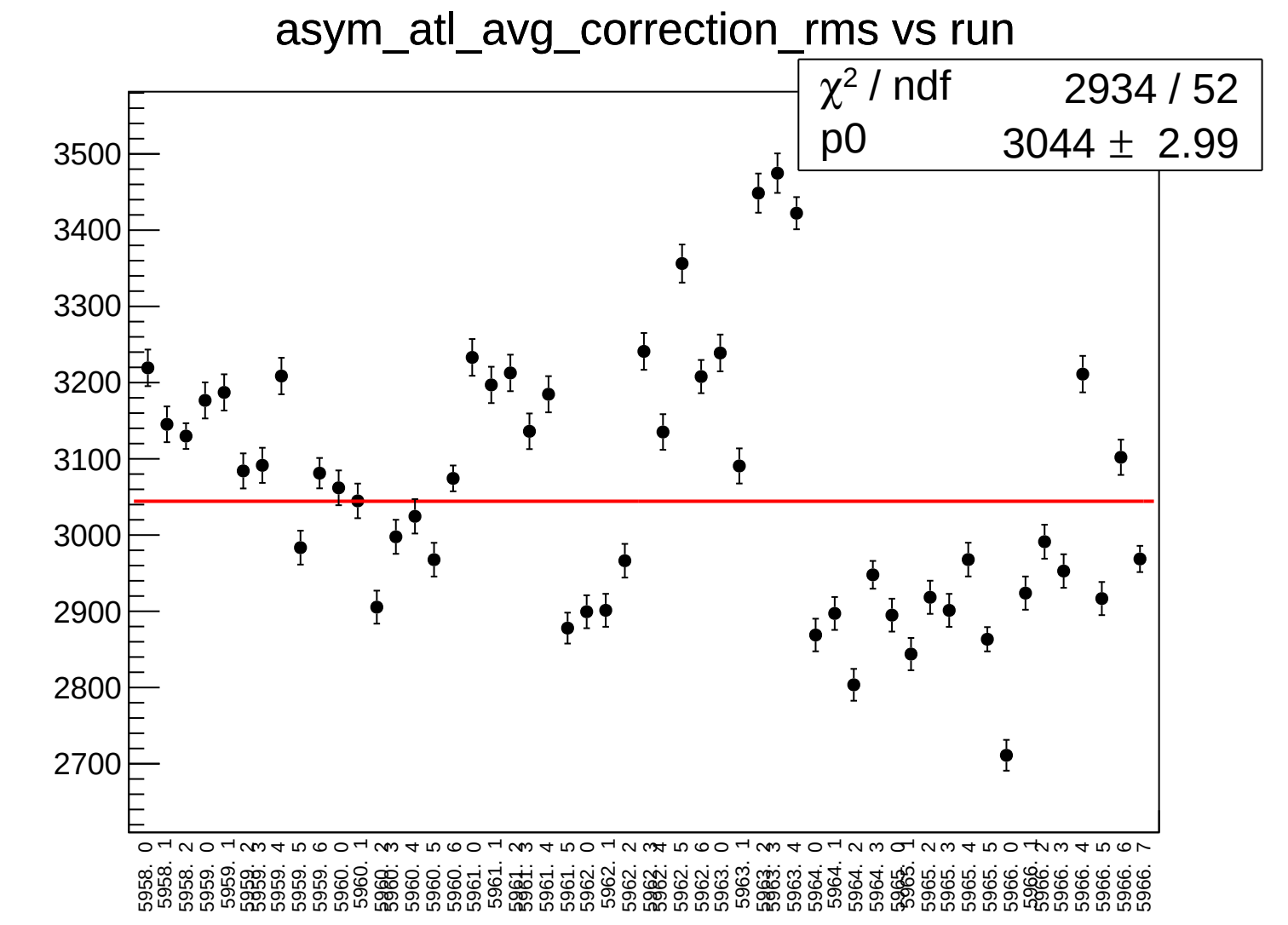
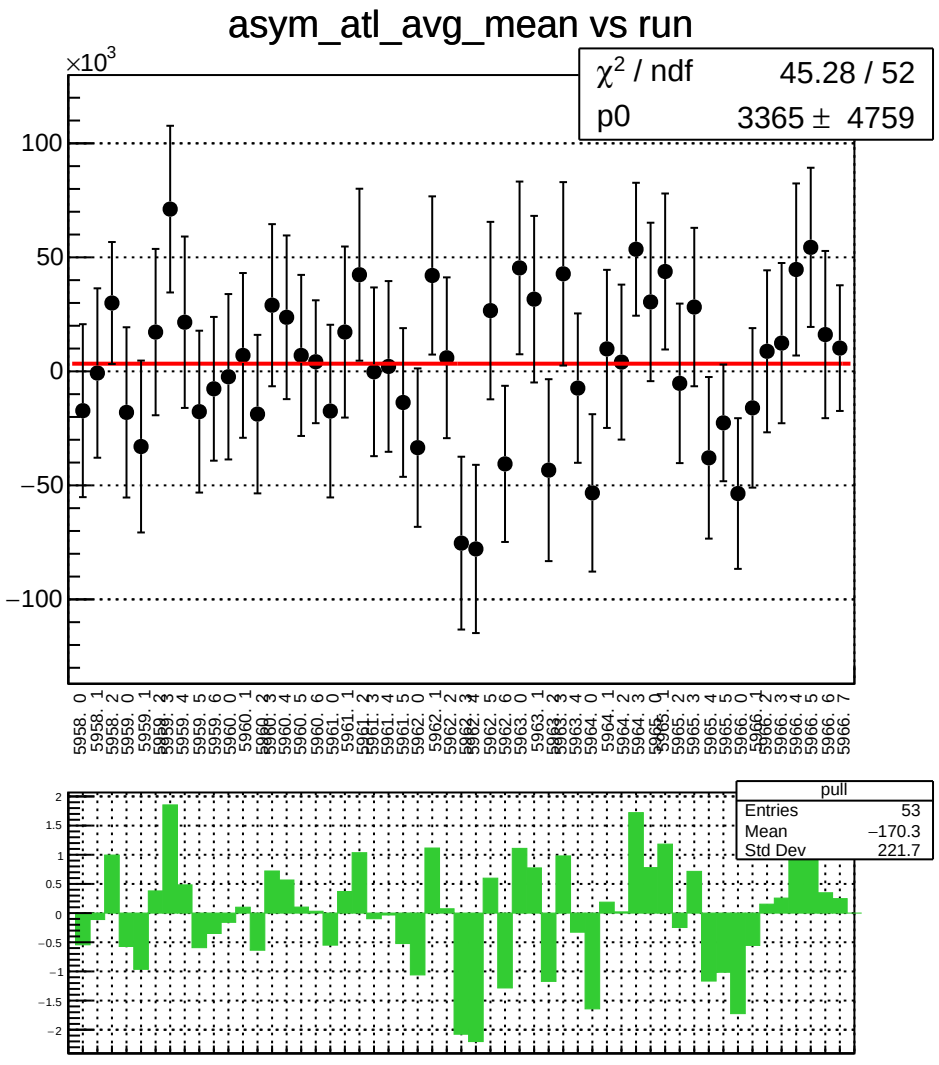
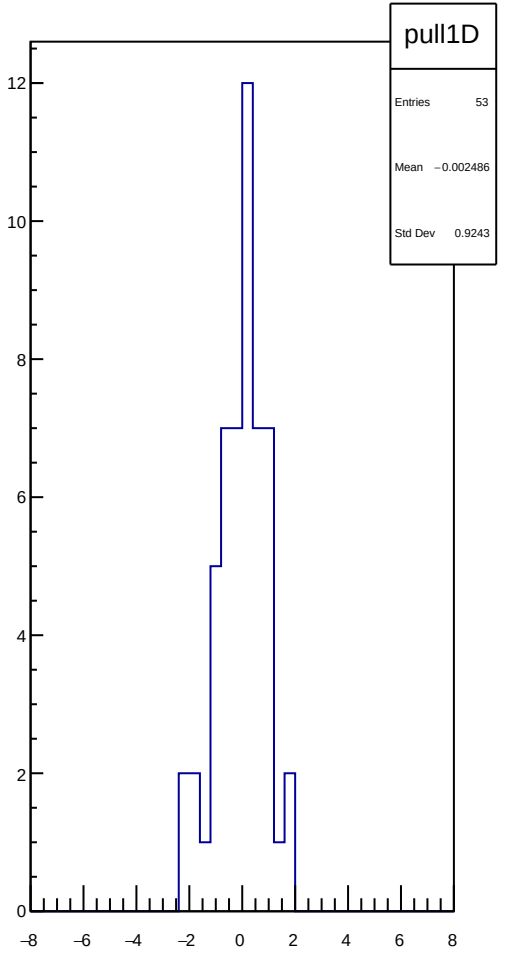
5966. 6
5966. 7

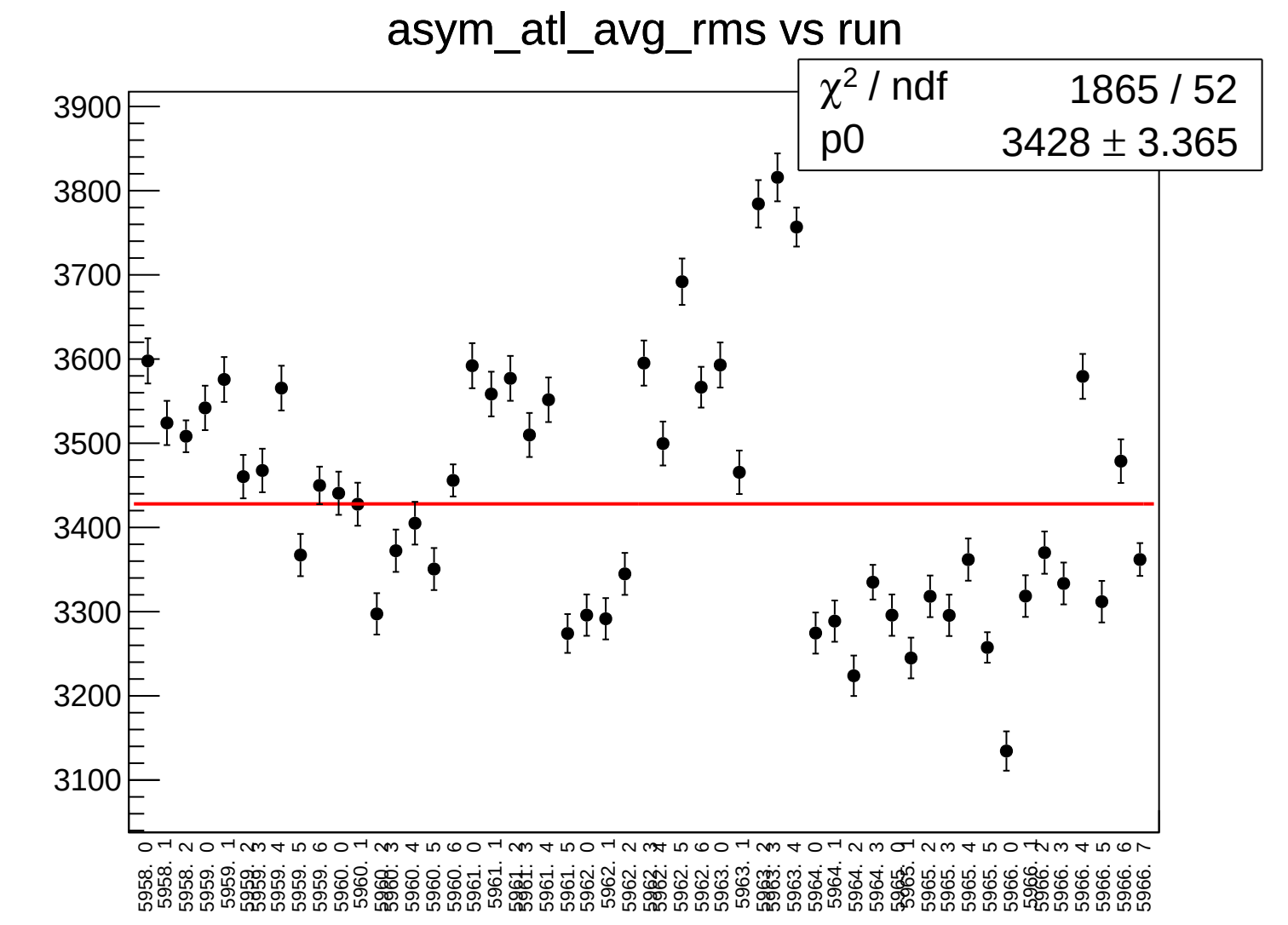

asym_atl_avg_correction_mean vs run
χ² / ndf 59.45 / 52
p0 −3113 ± 4228
×10³
100
50
0
−50
−100
pull
Entries 53
Mean 448.4
Std Dev 431.1
2
1
0
−1
−2

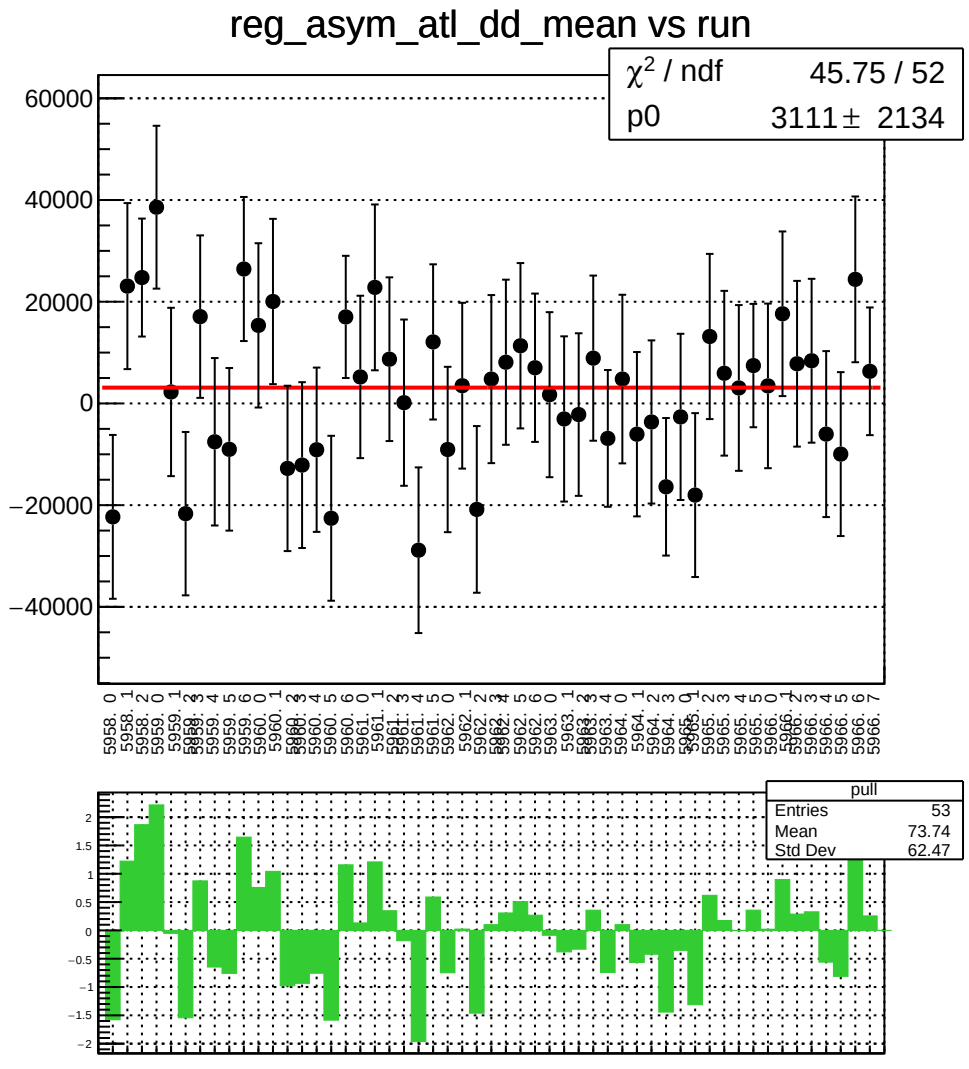

pull1D
Entries 53
Mean 0.003395
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

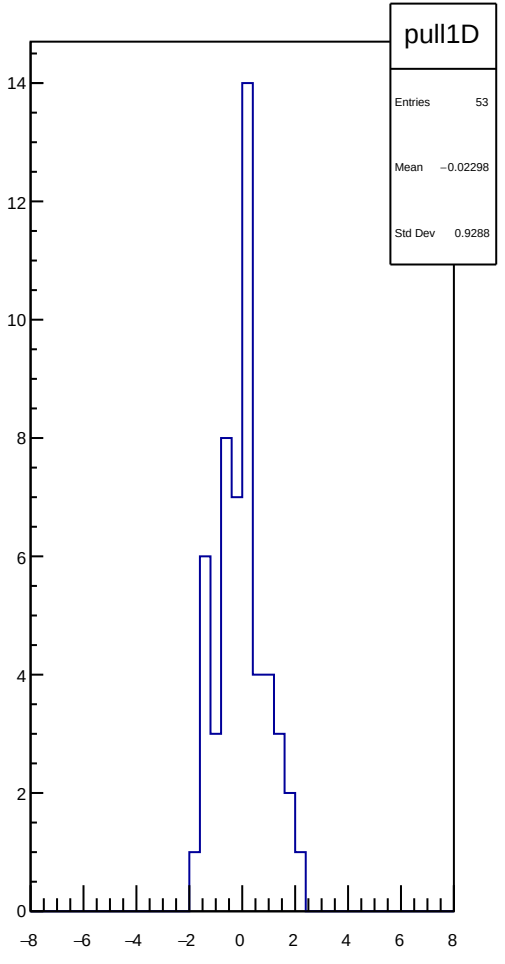

asym_atl_avg_correction_rms vs run
χ² / ndf 2934 / 52
p0 3044 ± 2.99
3500
3400
3300
3200
3100
3000
2900
2800
2700
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

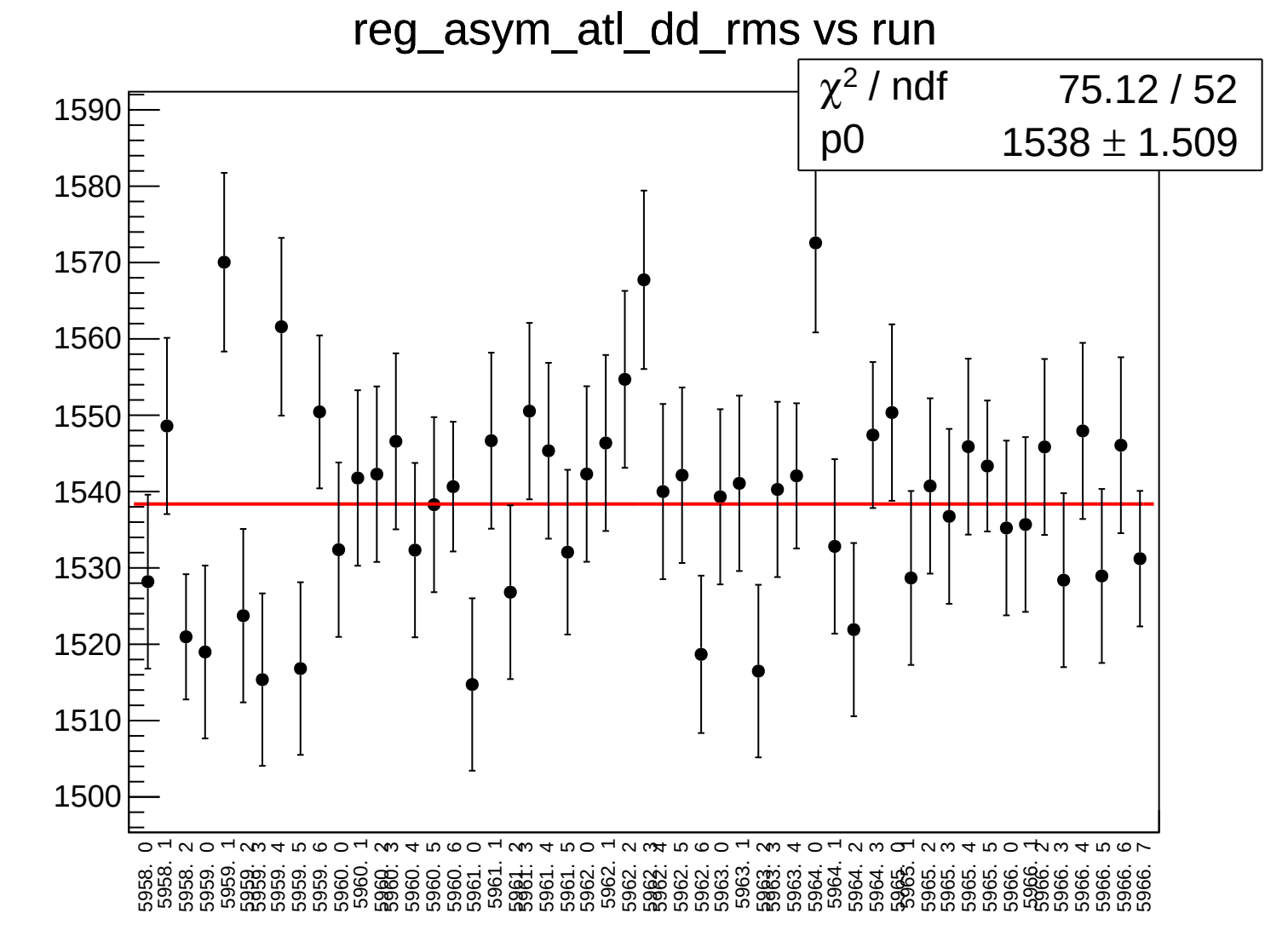

asym_atl_avg_mean vs run
×10^3
χ² / ndf 45.28 / 52
p0 3365 ± 4759
100
50
0
−50
−100
pull
Entries 53
Mean −170.3
Std Dev 221.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

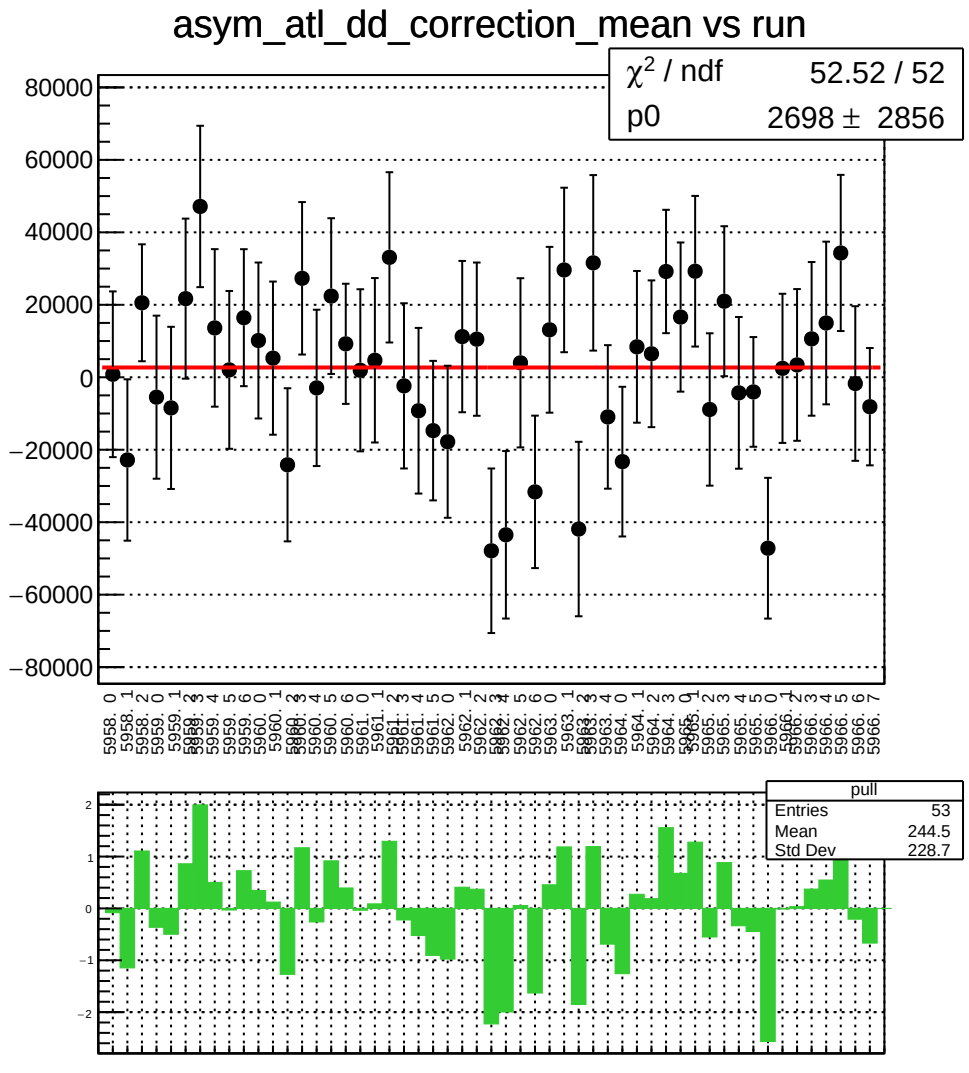

pull1D
Entries 53
Mean −0.002486
Std Dev 0.9243
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

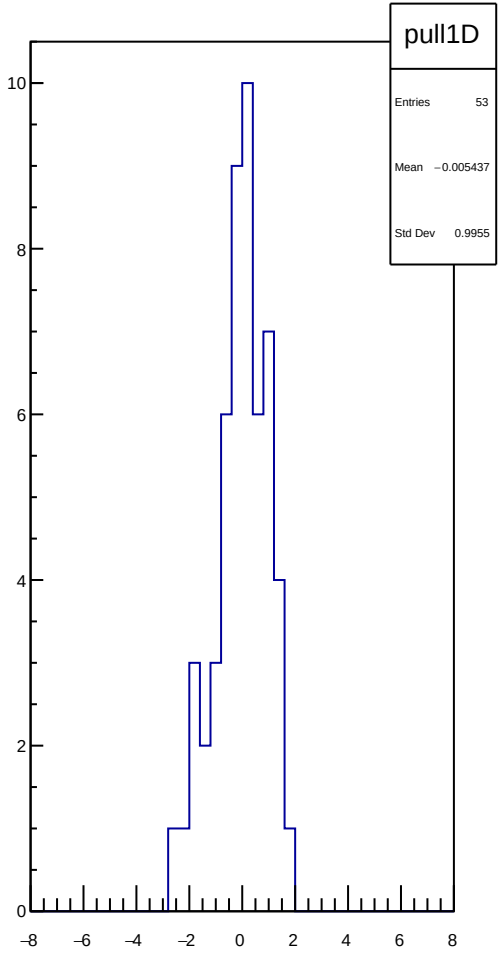

asym_atl_avg_rms vs run
χ² / ndf 1865 / 52
p0 3428 ± 3.365
3900
3800
3700
3600
3500
3400
3300
3200
3100

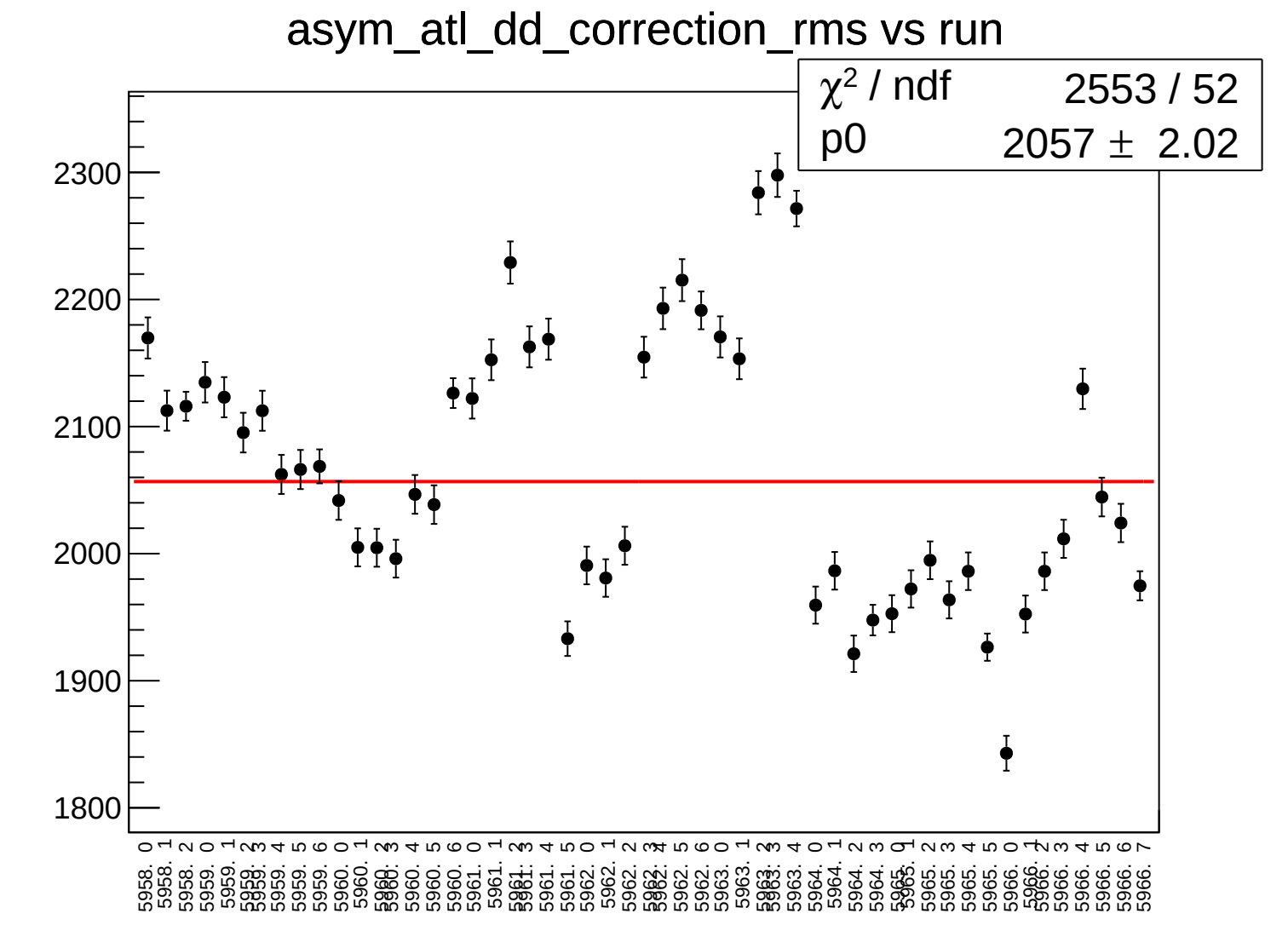

reg_asym_atl_dd_mean vs run
χ² / ndf 45.75 / 52
p0 3111 ± 2134
pull
Entries 53
Mean 73.74
Std Dev 62.47

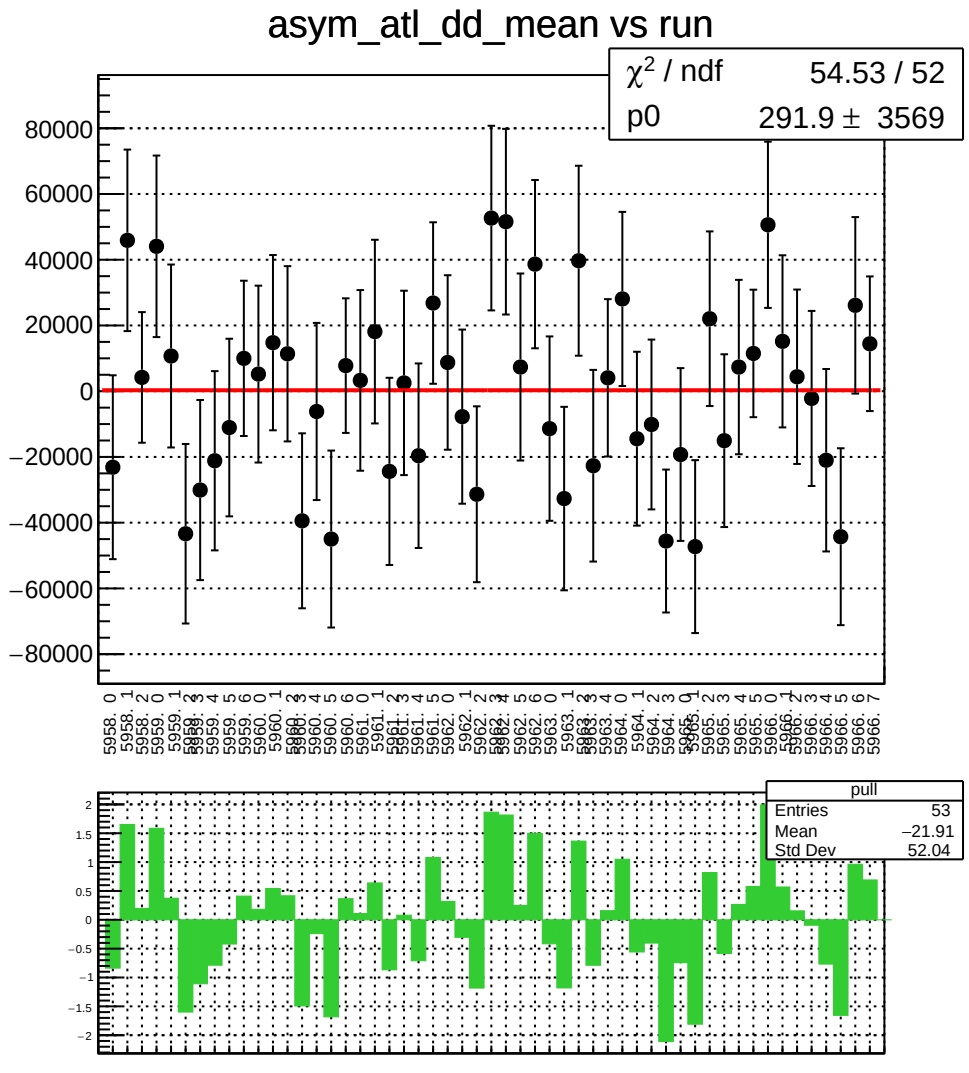

pull1D
Entries 53
Mean −0.02298
Std Dev 0.9288

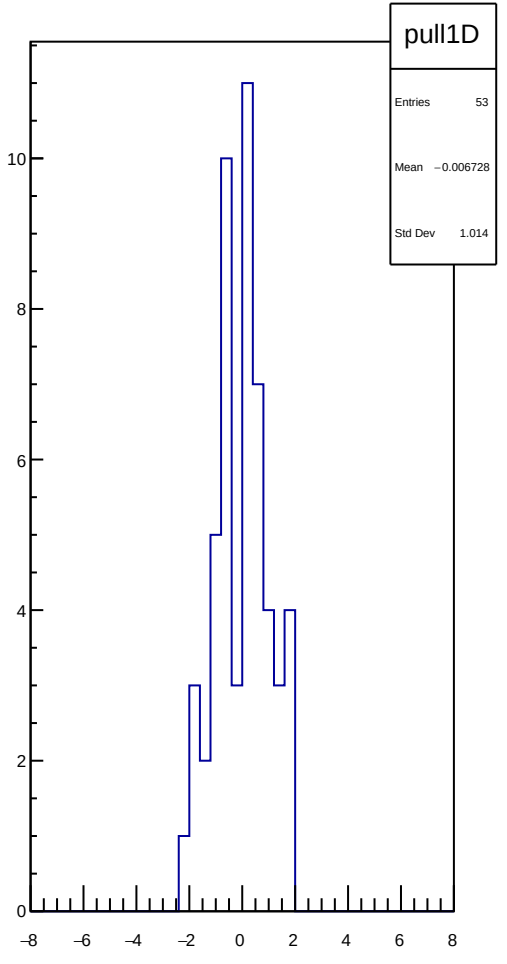

reg_asym_atl_dd_rms vs run
χ² / ndf 75.12 / 52
p0 1538 ± 1.509
1590
1580
1570
1560
1550
1540
1530
1520
1510
1500
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

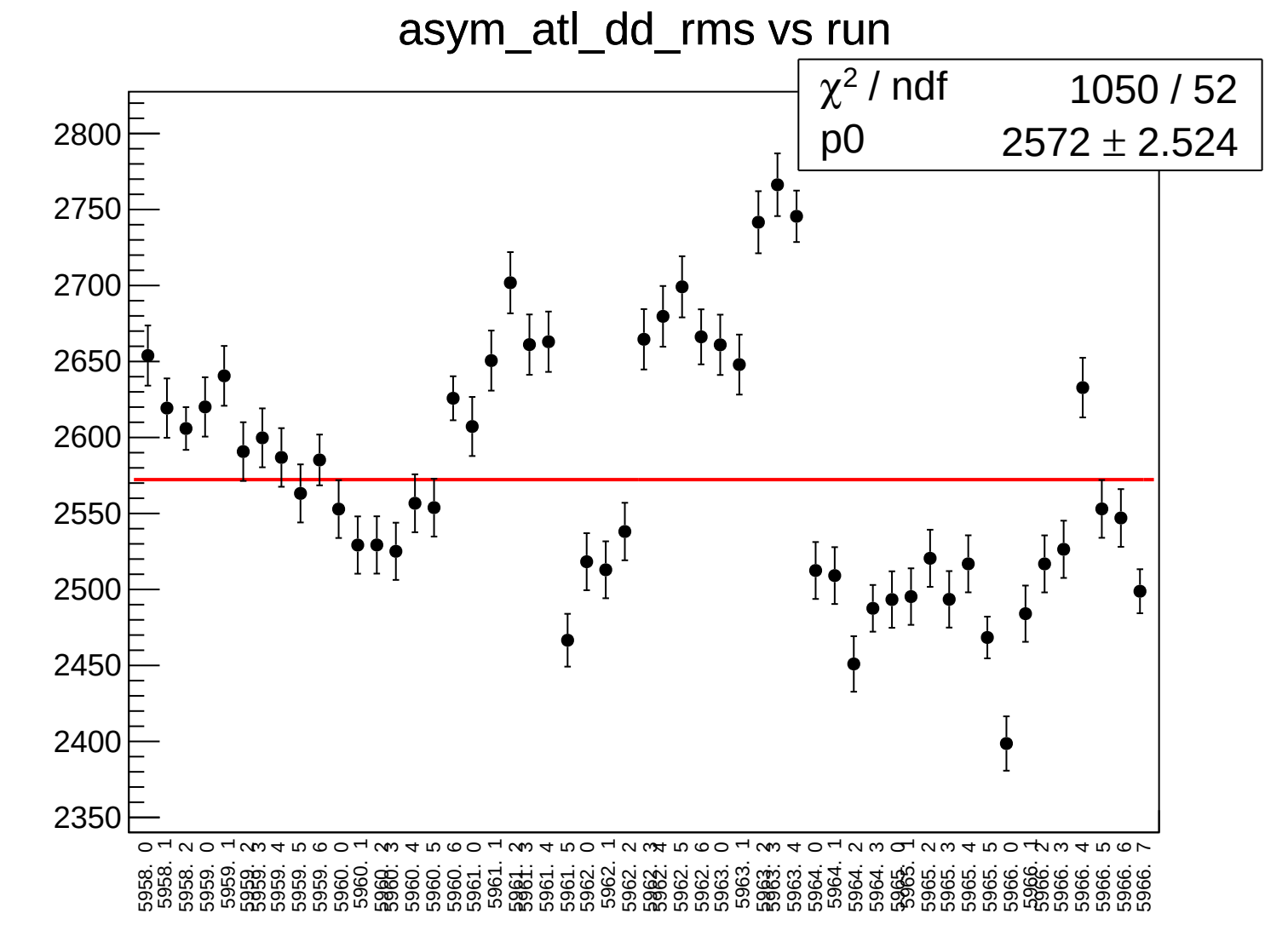

asym_atl_dd_correction_mean vs run
χ² / ndf 52.52 / 52
p0 2698 ± 2856
pull
Entries 53
Mean 244.5
Std Dev 228.7

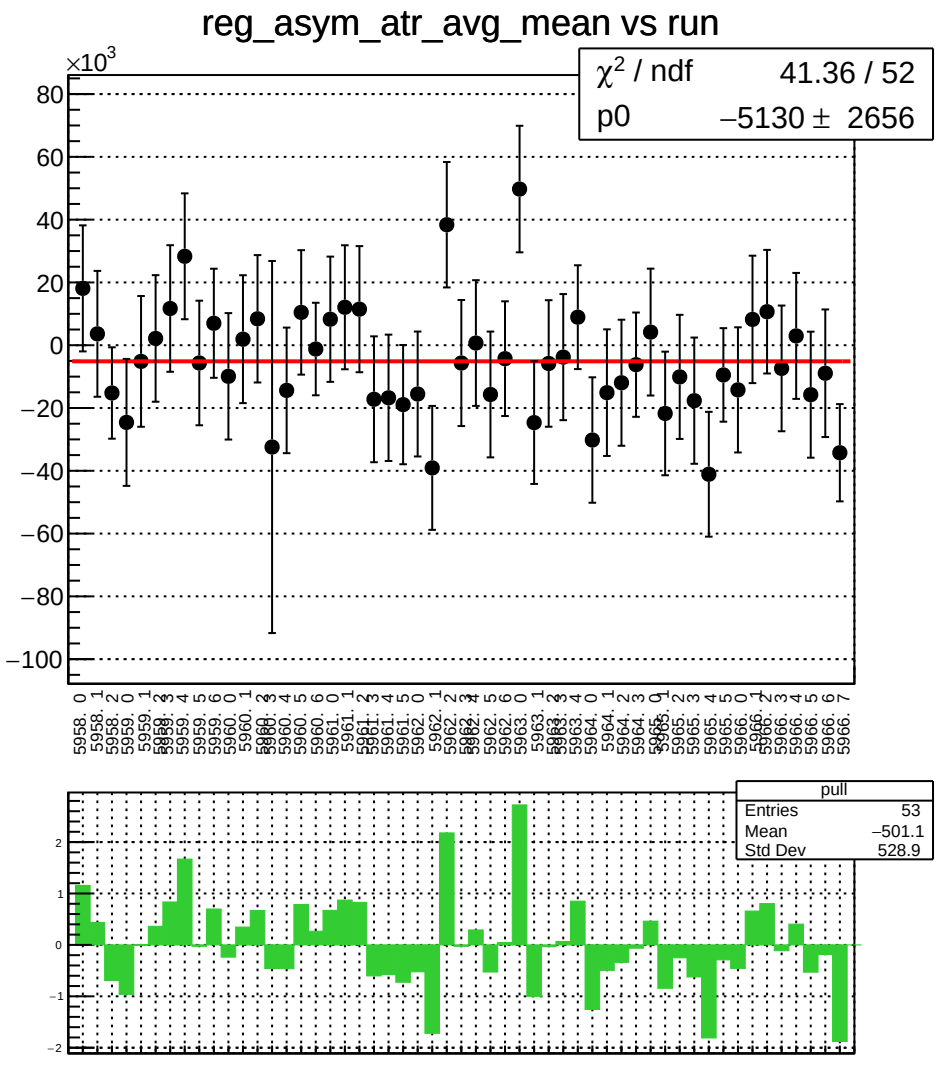

pull1D
Entries 53
Mean −0.005437
Std Dev 0.9955

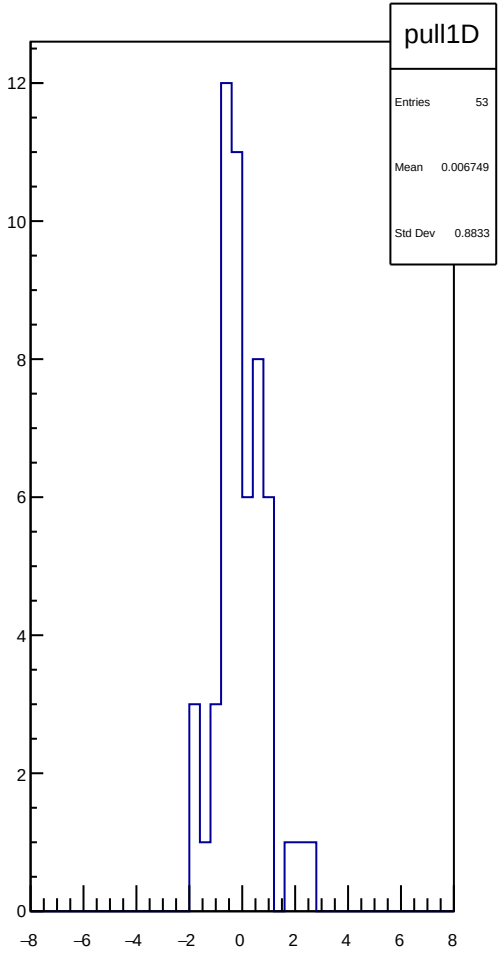

asym_atl_dd_correction_rms vs run
χ² / ndf 2553 / 52
p0 2057 ± 2.02
2300
2200
2100
2000
1900
1800
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5964. 4
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

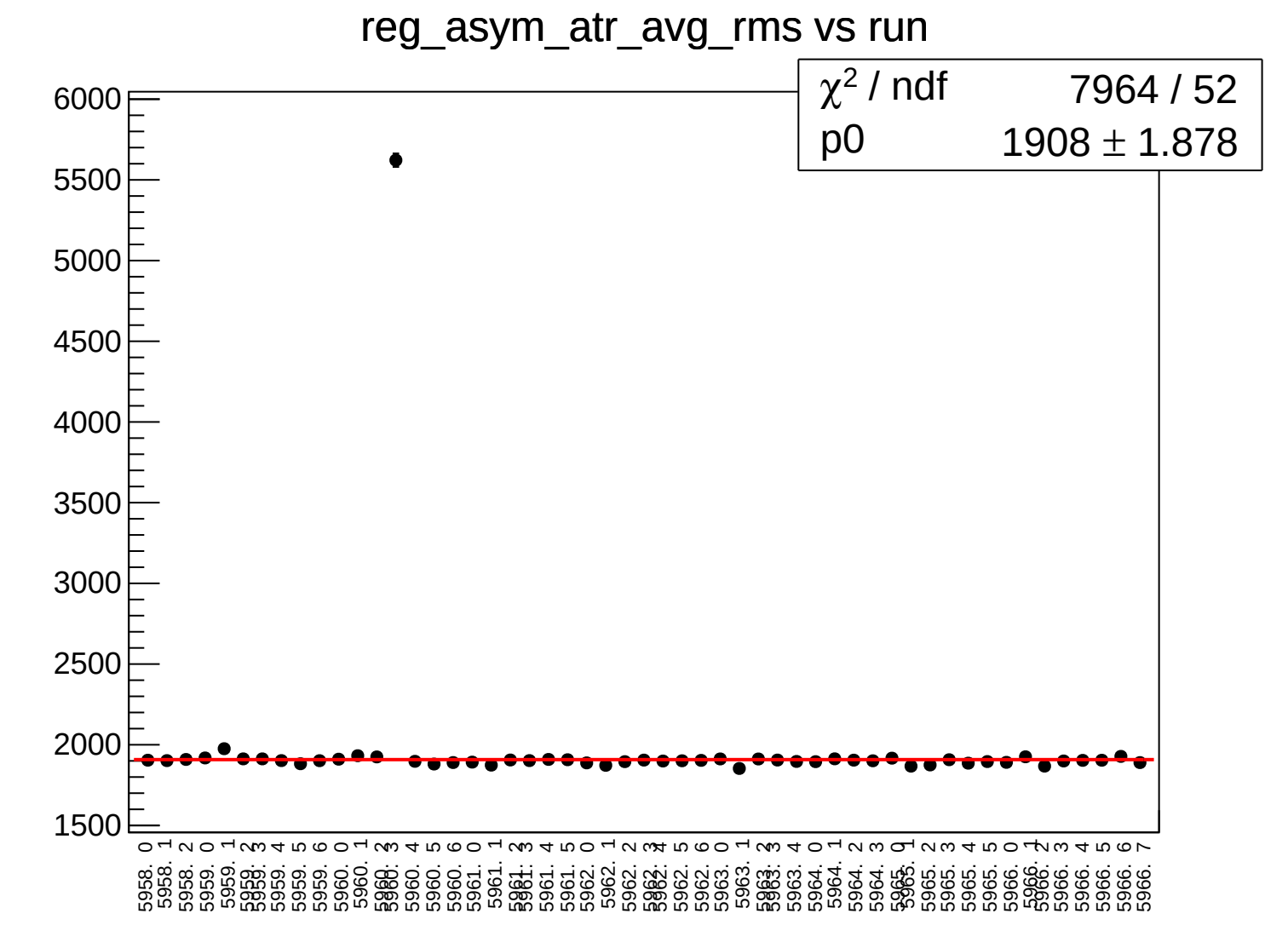

asym_atl_dd_mean vs run
χ² / ndf 54.53 / 52
p0 291.9 ± 3569
pull
Entries 53
Mean −21.91
Std Dev 52.04

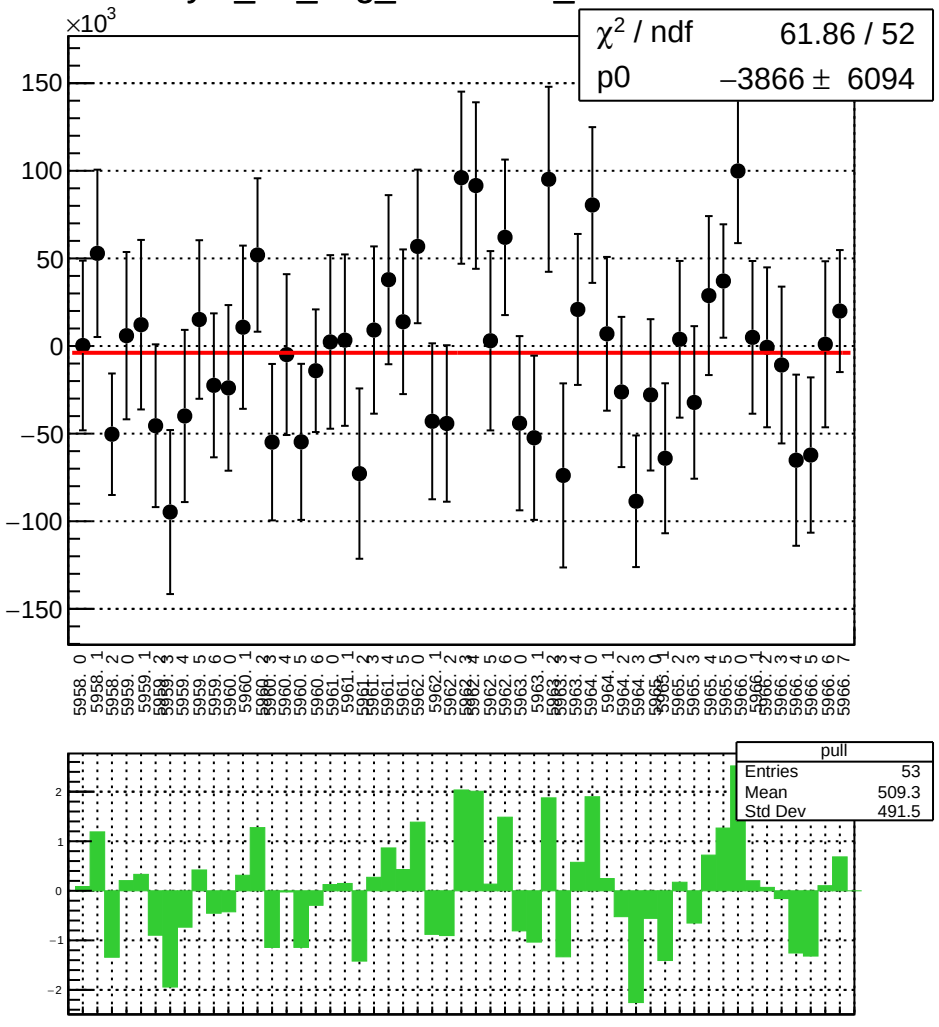

pull1D
Entries 53
Mean −0.006728
Std Dev 1.014

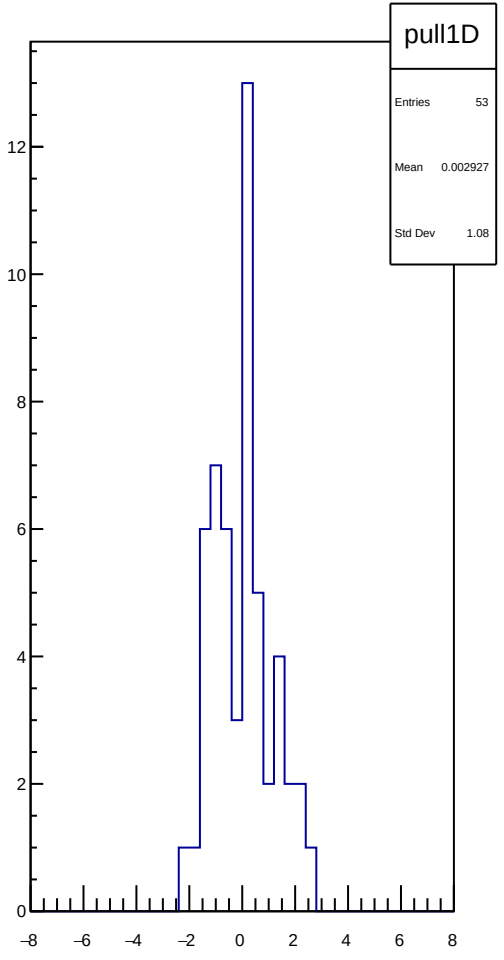

asym_atl_dd_rms vs run
χ² / ndf 1050 / 52
p0 2572 ± 2.524
2800
2750
2700
2650
2600
2550
2500
2450
2400
2350
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

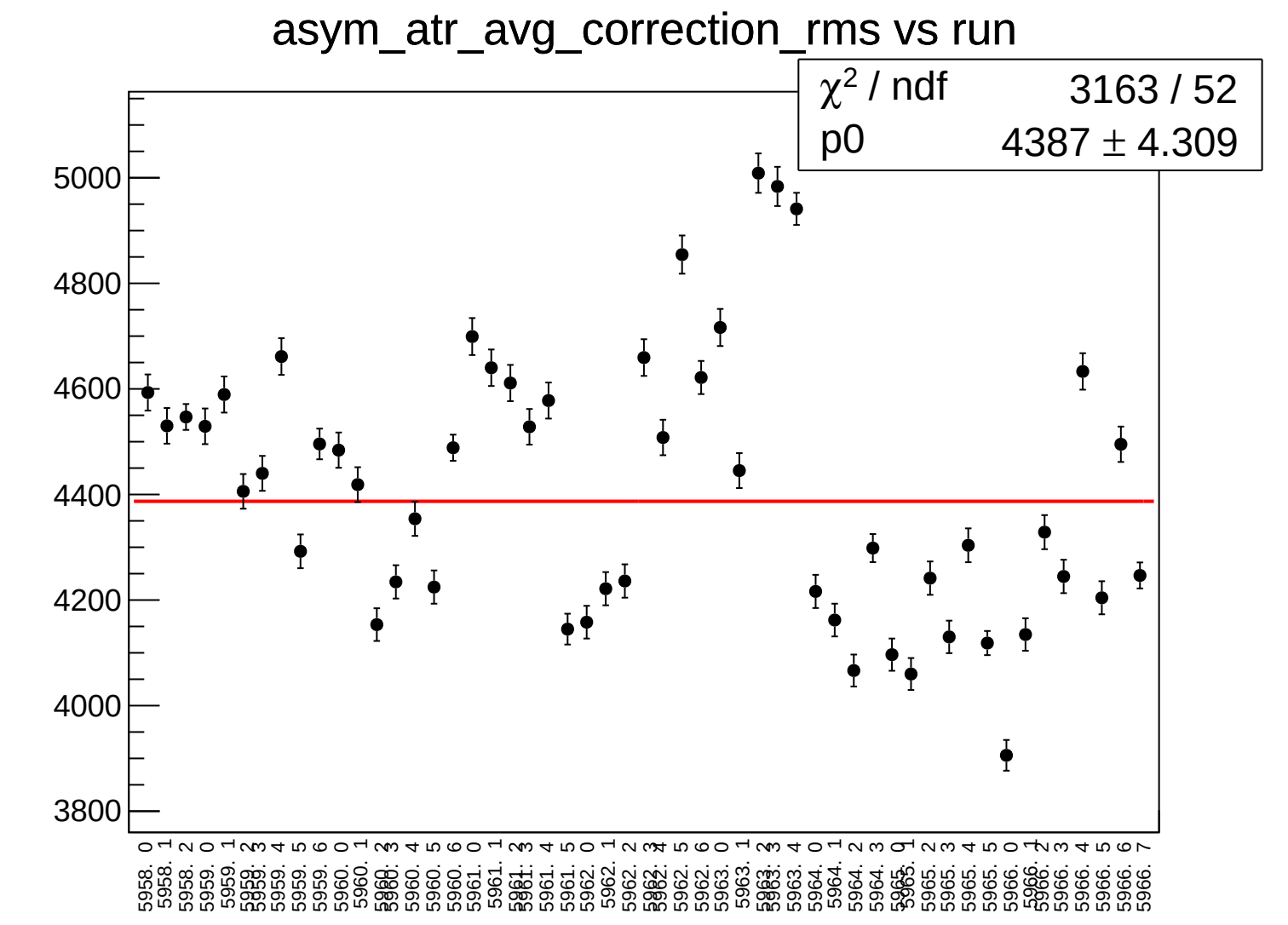

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 41.36 / 52
p0 −5130 ± 2656
pull
Entries 53
Mean −501.1
Std Dev 528.9

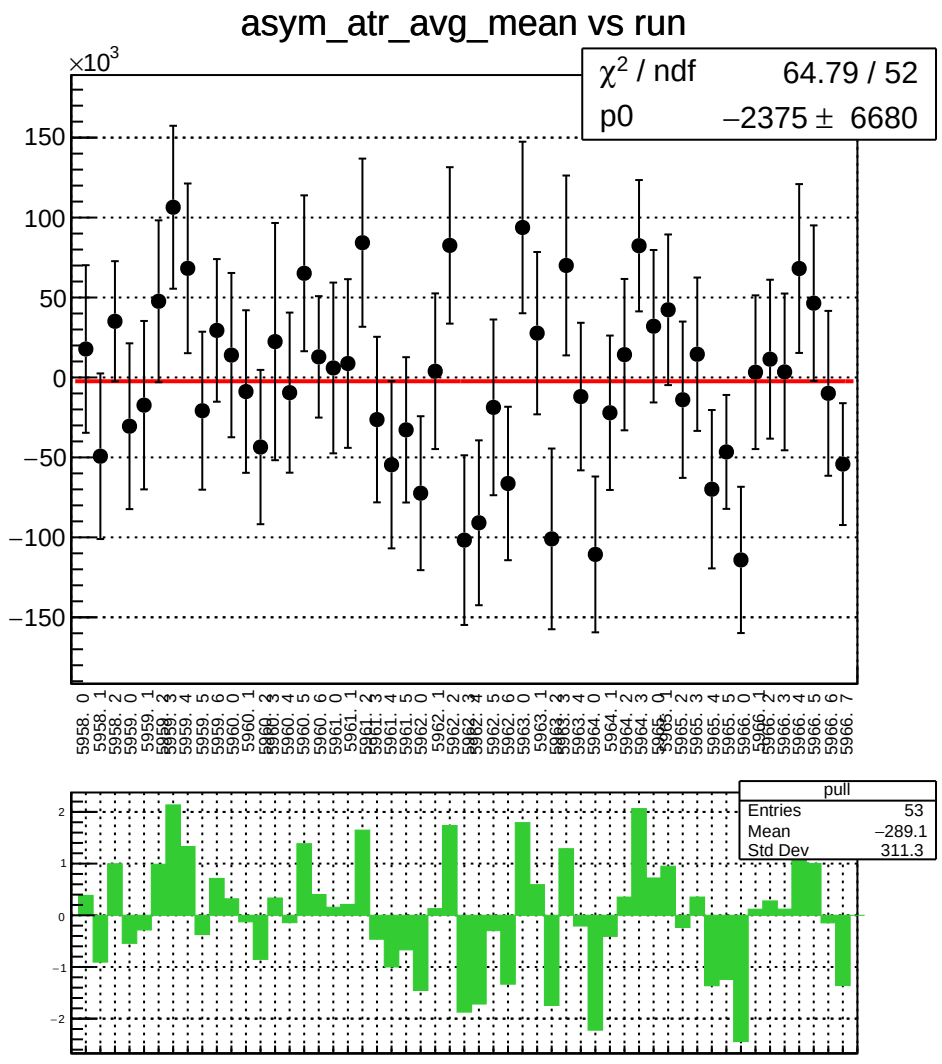

pull1D
Entries 53
Mean 0.006749
Std Dev 0.8833

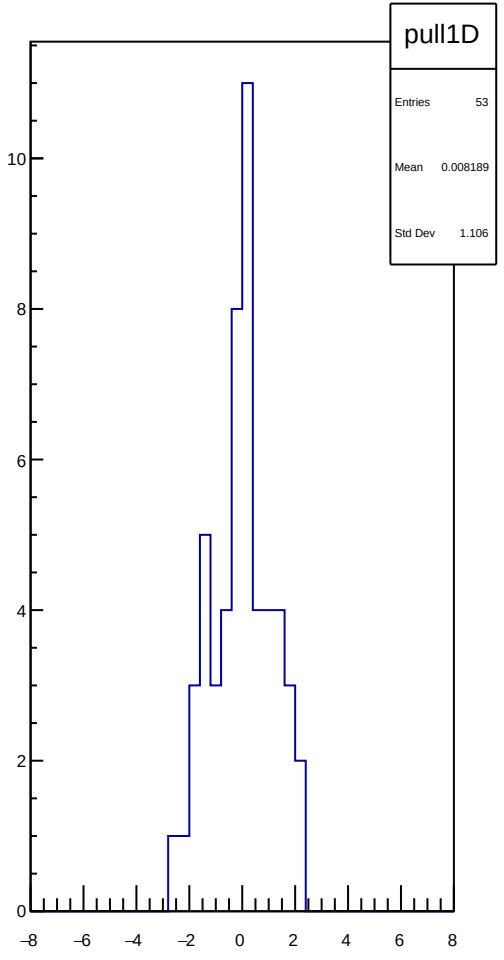

reg_asym_atr_avg_rms vs run
χ² / ndf 7964 / 52
p0 1908 ± 1.878
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

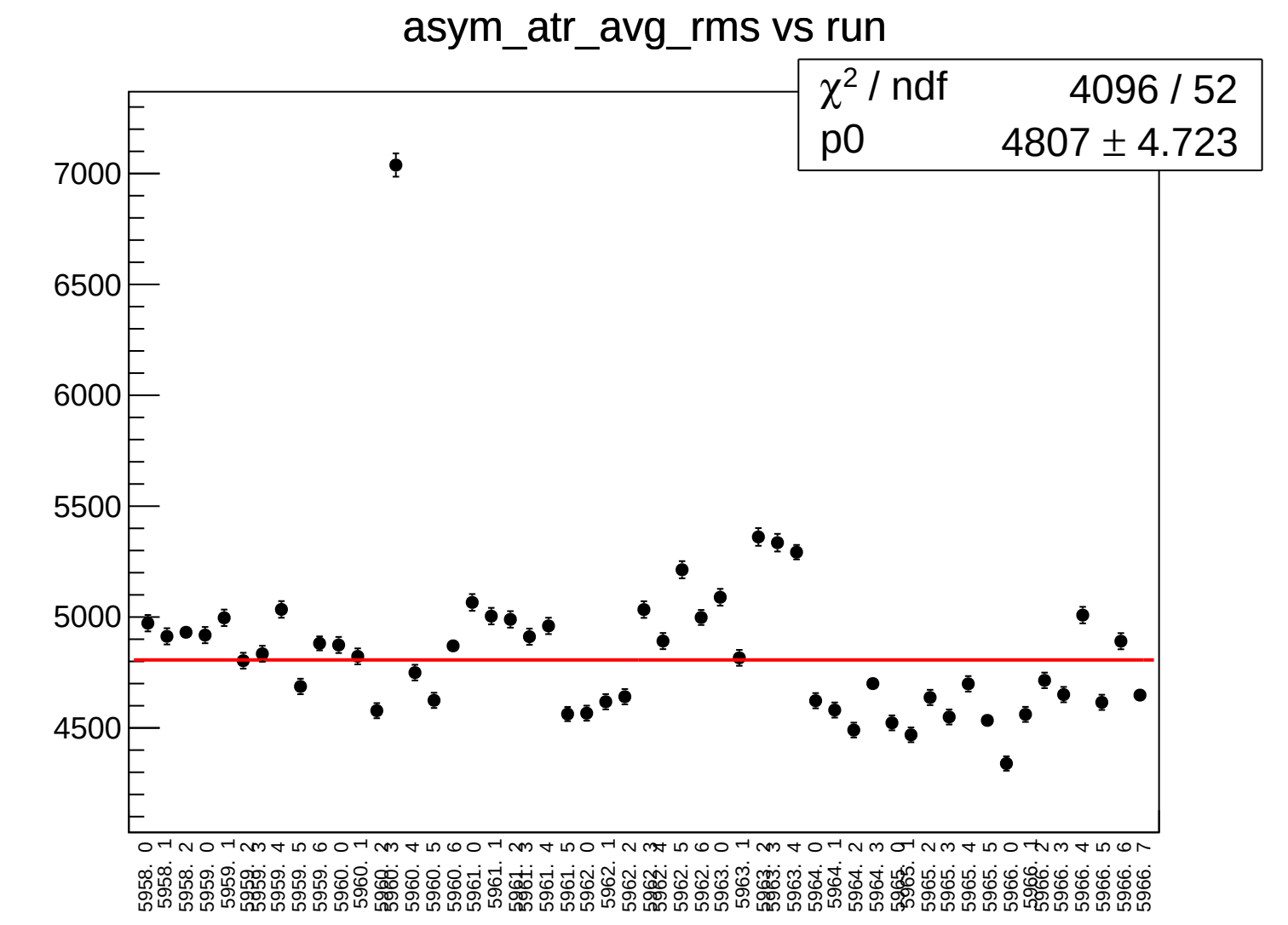

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 61.86 / 52
p0 −3866 ± 6094
150
100
50
0
−50
−100
−150
pull
Entries 53
Mean 509.3
Std Dev 491.5
2
1
0
−1
−2

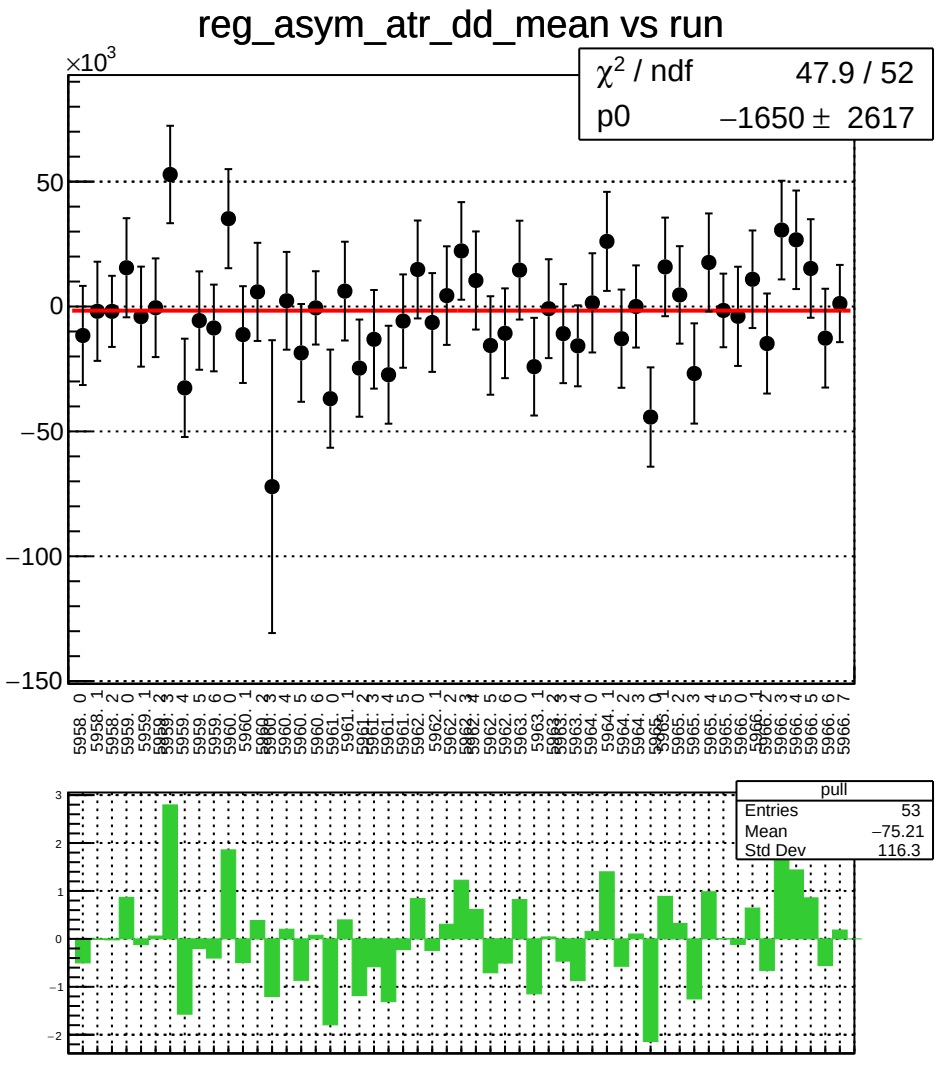

pull1D
Entries 53
Mean 0.002927
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

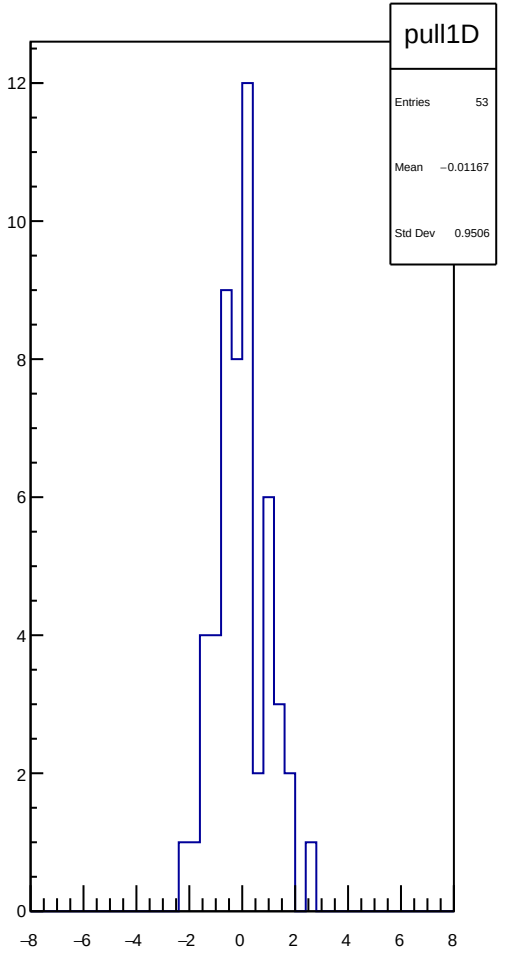

asym_atr_avg_correction_rms vs run
χ^2 / ndf 3163 / 52
p0 4387 ± 4.309
5000
4800
4600
4400
4200
4000
3800

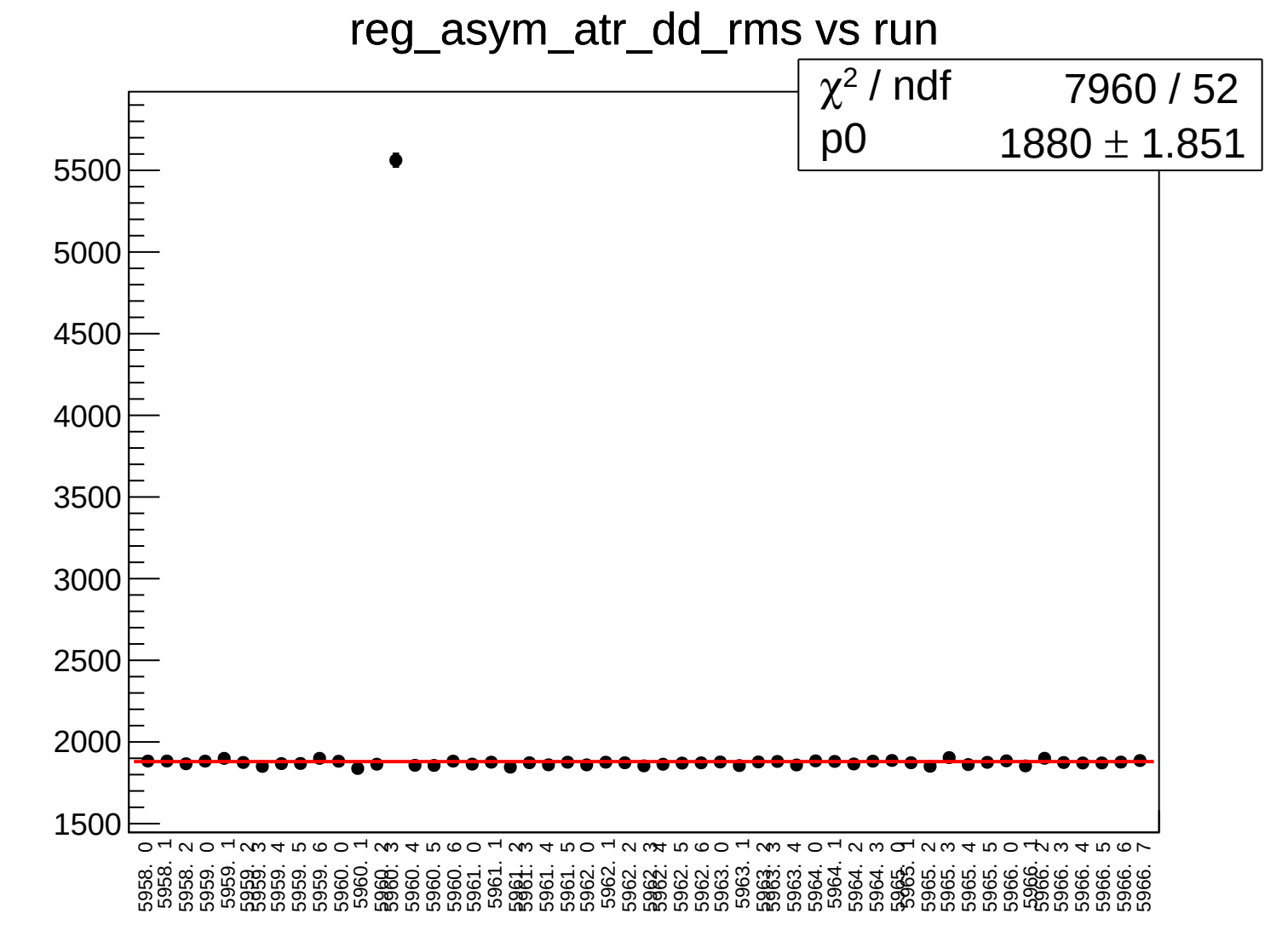

asym_atr_avg_mean vs run
×10^3
χ² / ndf 64.79 / 52
p0 −2375 ± 6680
150
100
50
0
−50
−100
−150
pull
Entries 53
Mean −289.1
Std Dev 311.3
2
1
0
−1
−2

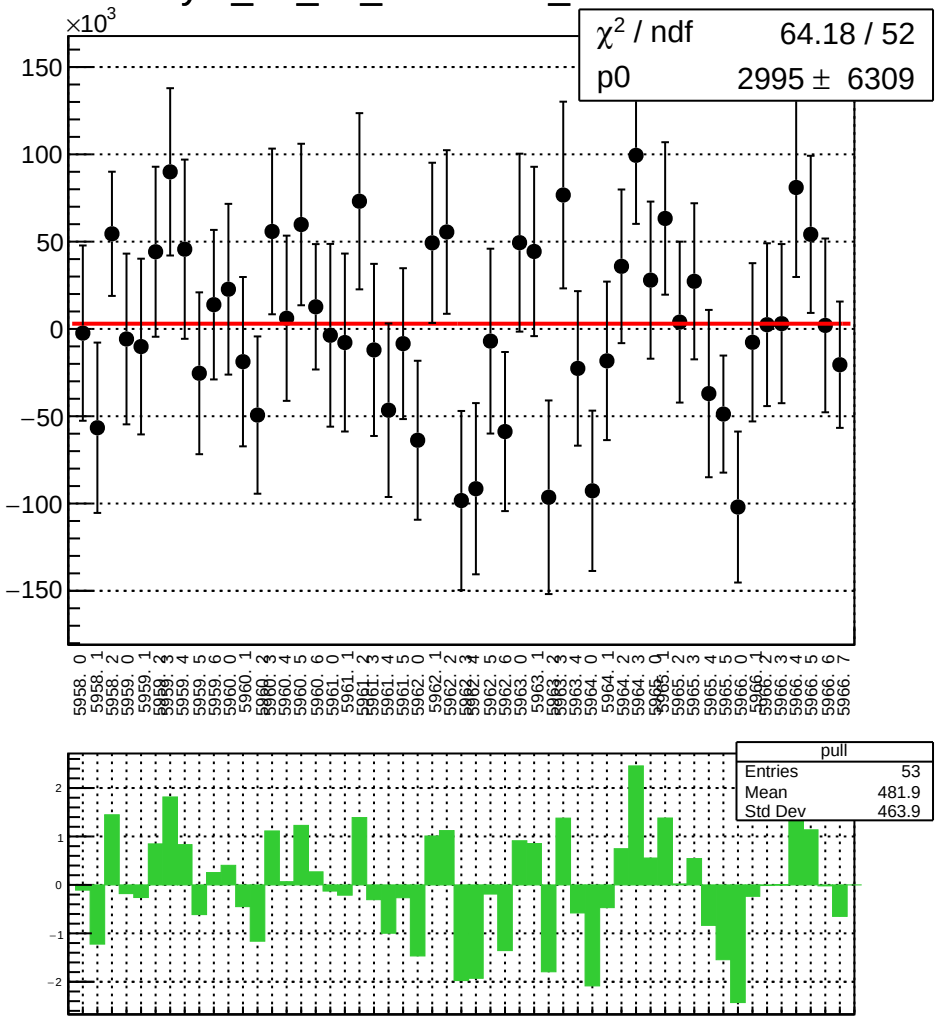

pull1D
Entries 53
Mean 0.008189
Std Dev 1.106
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

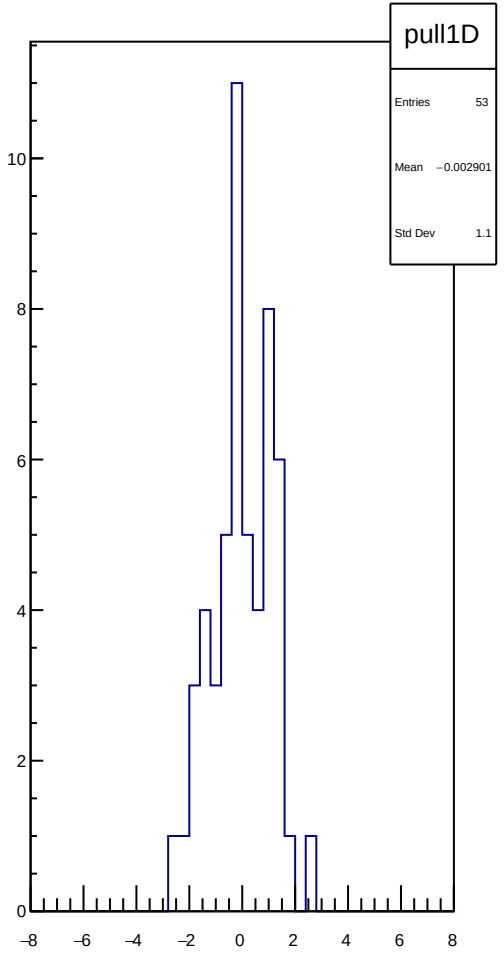

asym_atr_avg_rms vs run
χ² / ndf 4096 / 52
p0 4807 ± 4.723
7000
6500
6000
5500
5000
4500
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

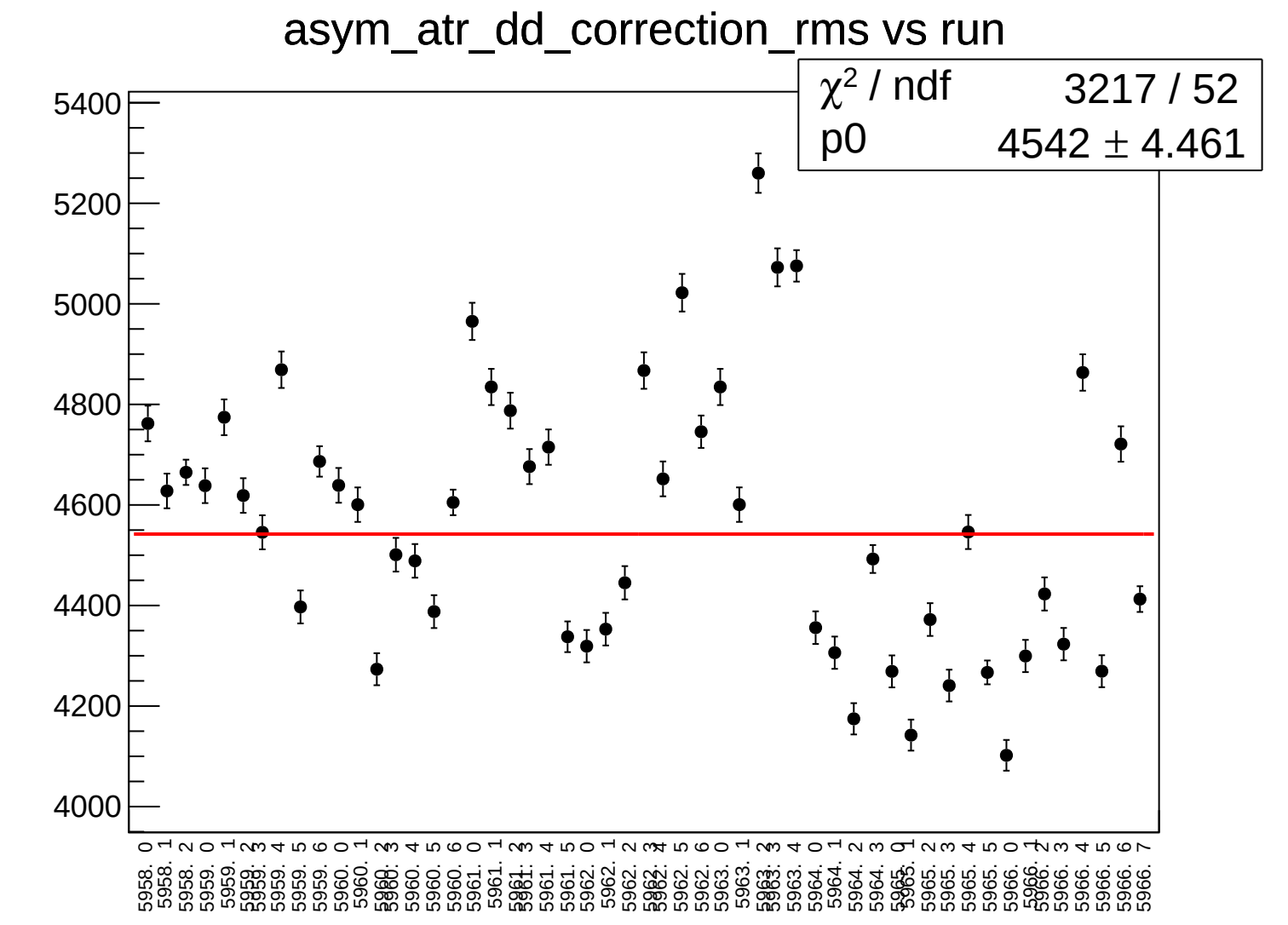

reg_asym_atr_dd_mean vs run
χ² / ndf 47.9 / 52
p0 −1650 ± 2617
×10³
pull
Entries 53
Mean −75.21
Std Dev 116.3

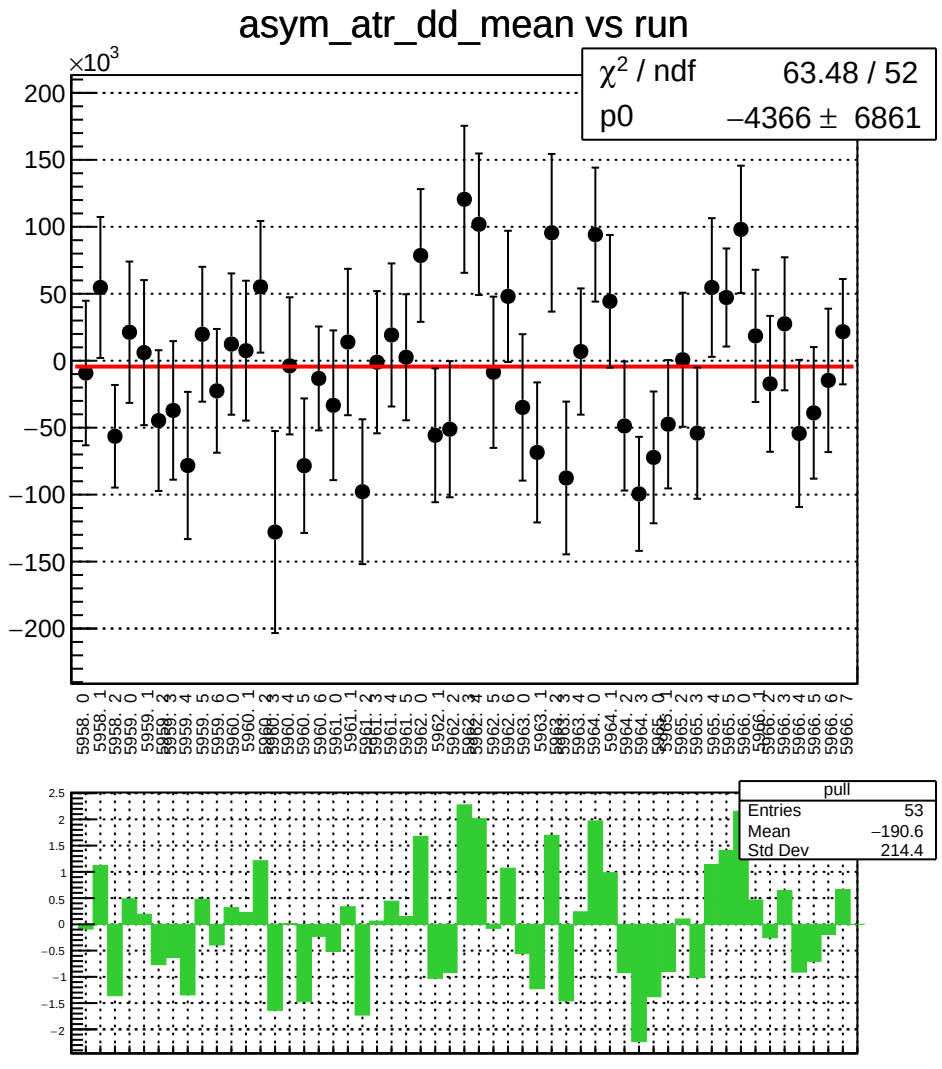

pull1D
Entries 53
Mean −0.01167
Std Dev 0.9506

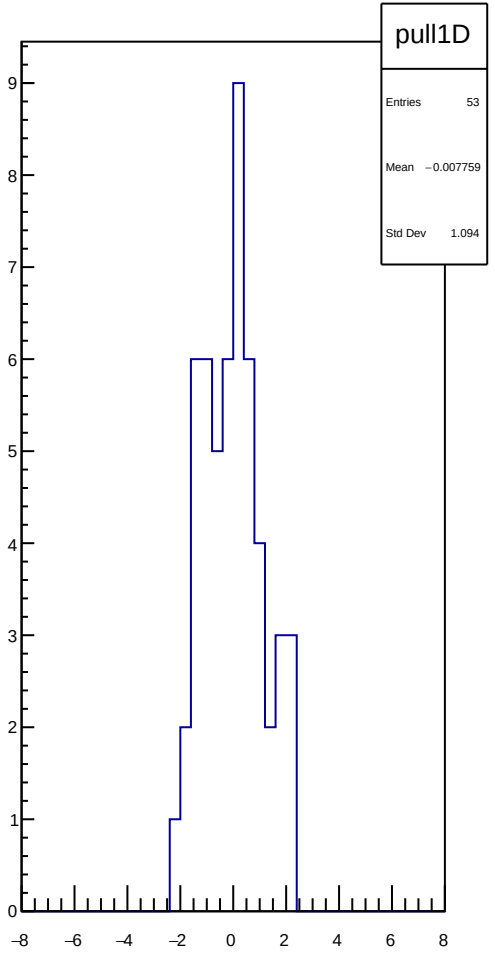

reg_asym_atr_dd_rms vs run
χ² / ndf 7960 / 52
p0 1880 ± 1.851
5500
5000
4500
4000
3500
3000
2500
2000
1500

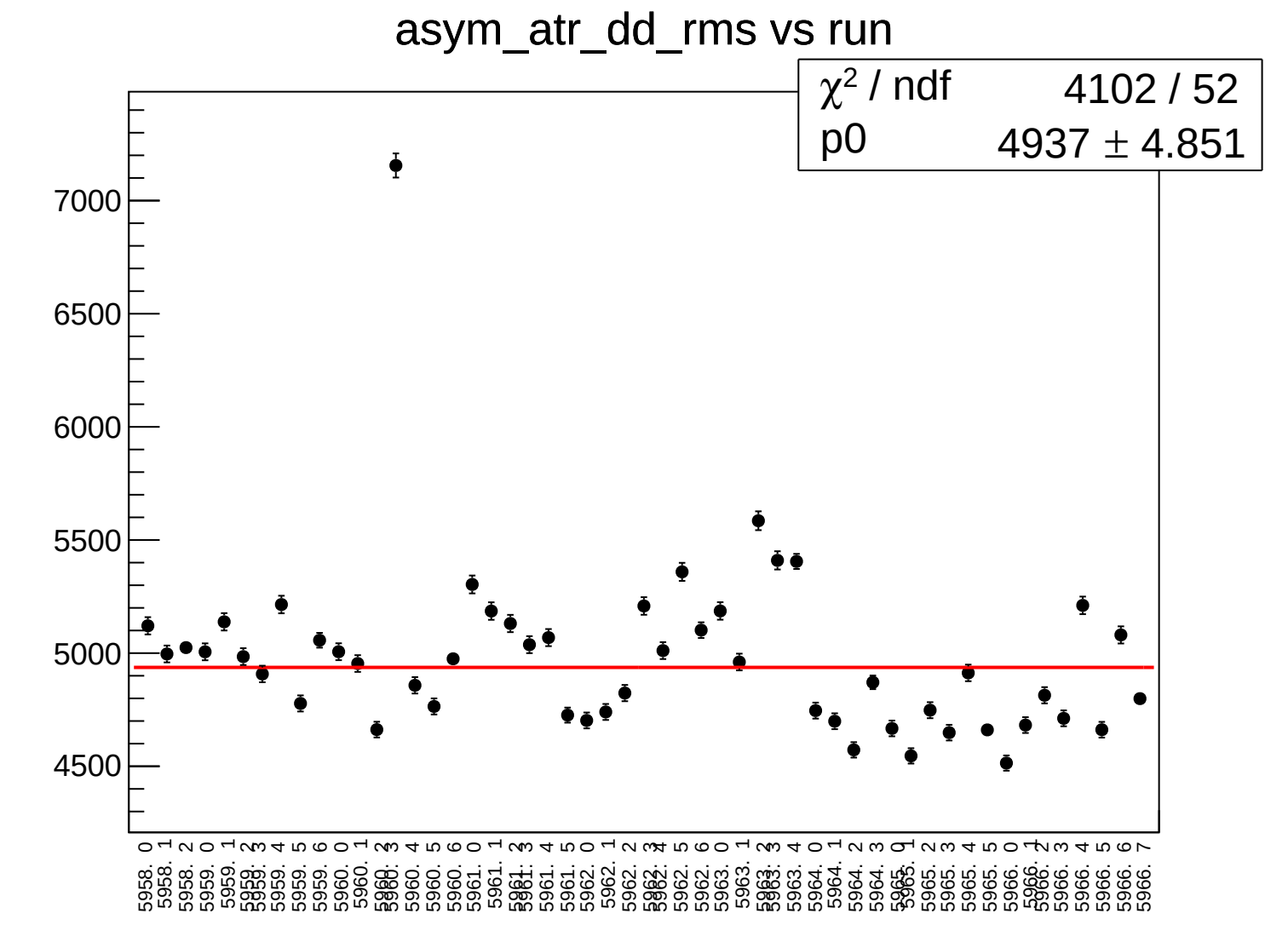

asym_atr_dd_correction_mean vs run
×10^3
χ^2 / ndf 64.18 / 52
p0 2995 ± 6309
150
100
50
0
−50
−100
−150
pull
Entries 53
Mean 481.9
Std Dev 463.9
2
1
0
−1
−2

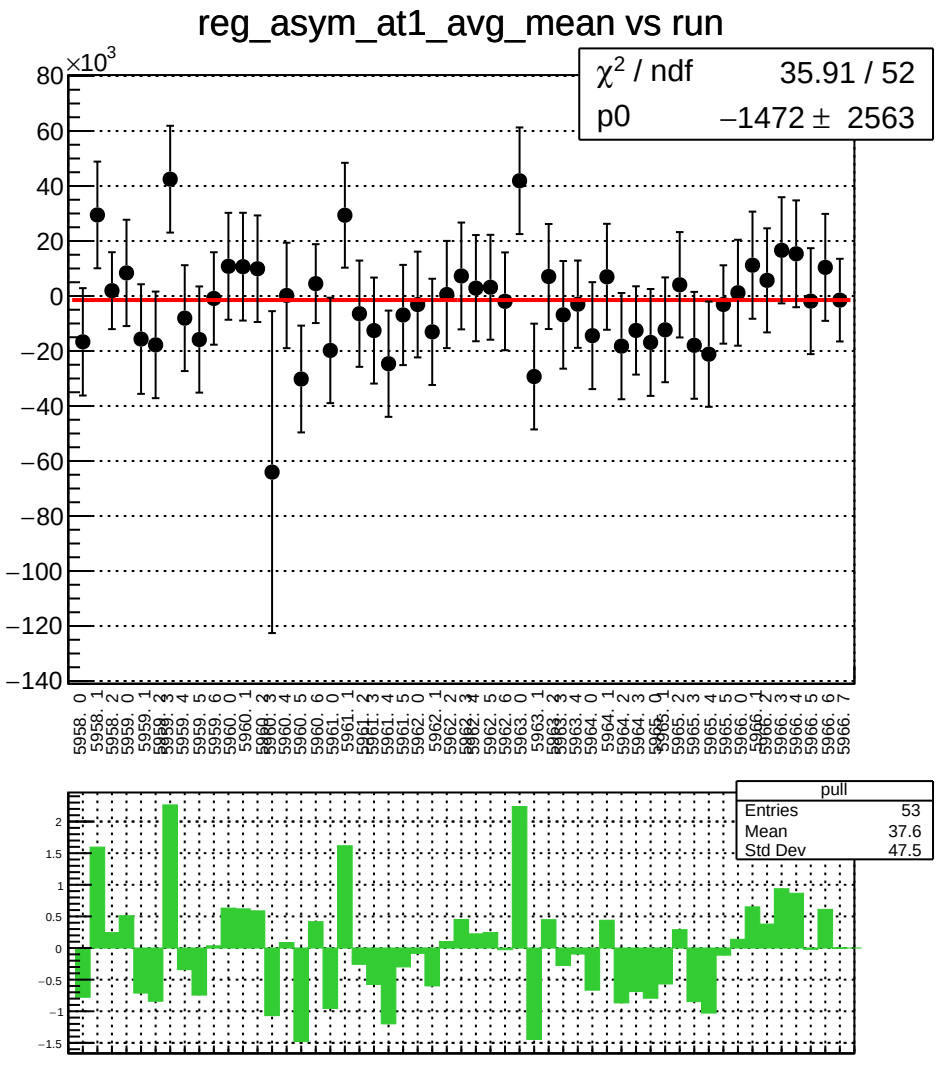

pull1D
Entries 53
Mean −0.002901
Std Dev 1.1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

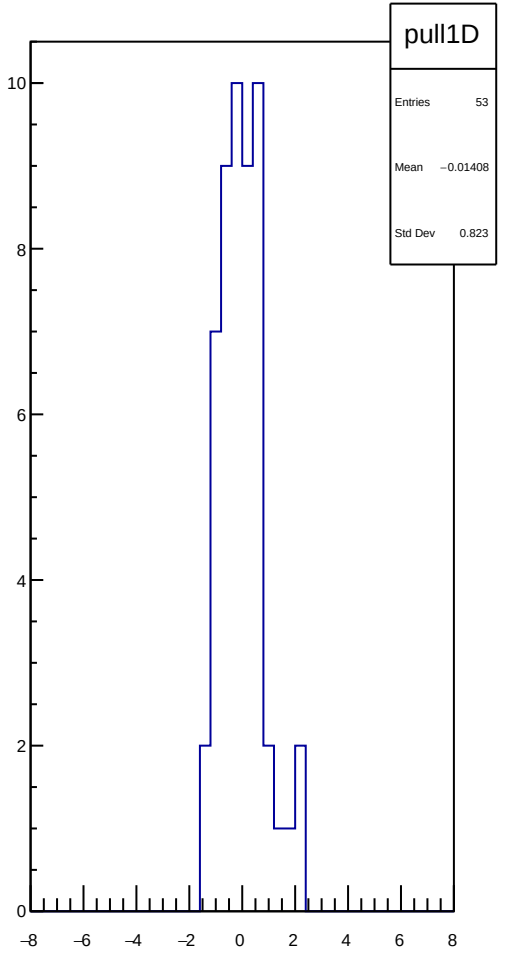

asym_atr_dd_correction_rms vs run
χ² / ndf 3217 / 52
p0 4542 ± 4.461
5400
5200
5000
4800
4600
4400
4200
4000

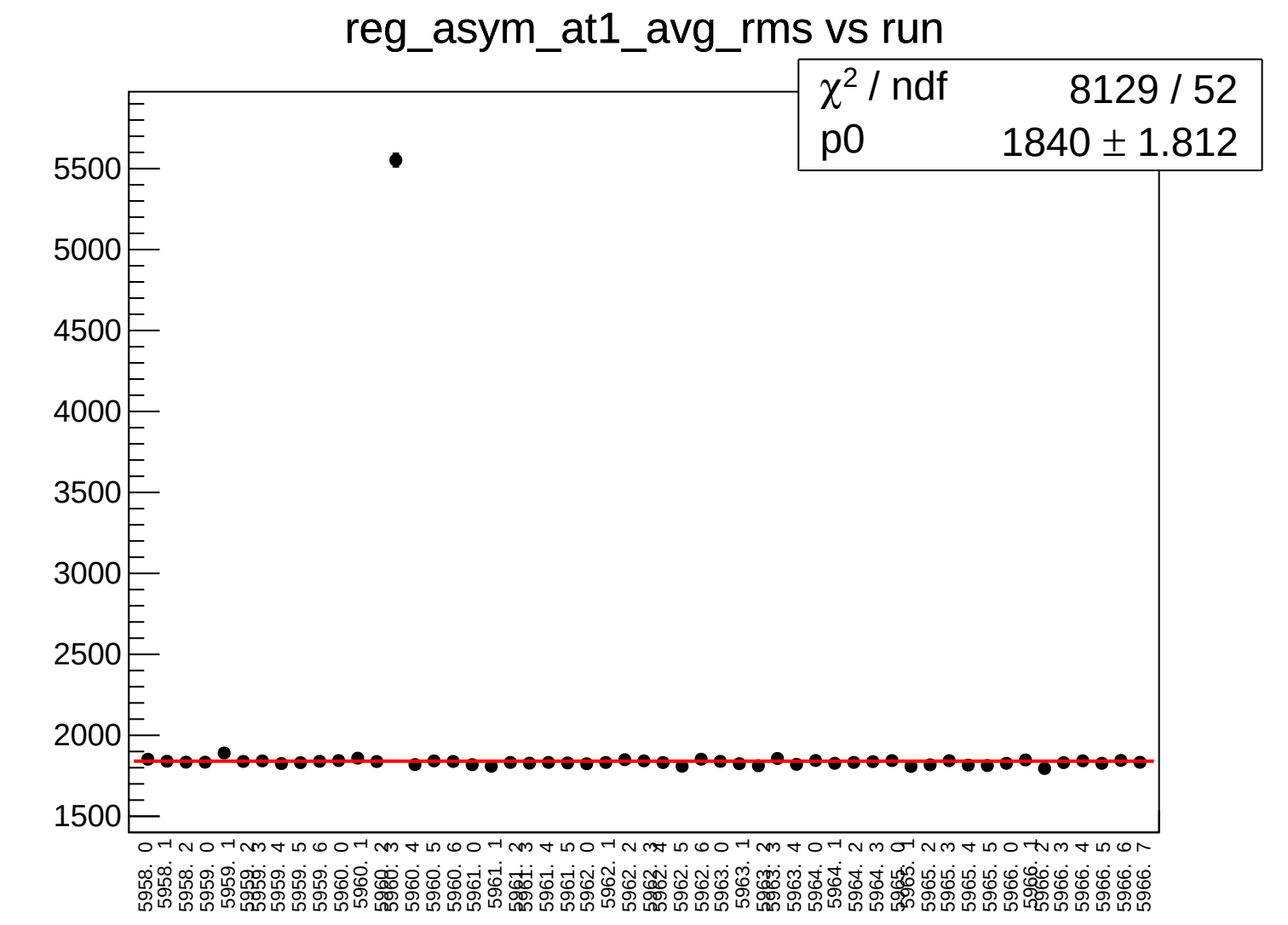

asym_atr_dd_mean vs run
×10^3
χ² / ndf 63.48 / 52
p0 −4366 ± 6861
pull
Entries 53
Mean −190.6
Std Dev 214.4

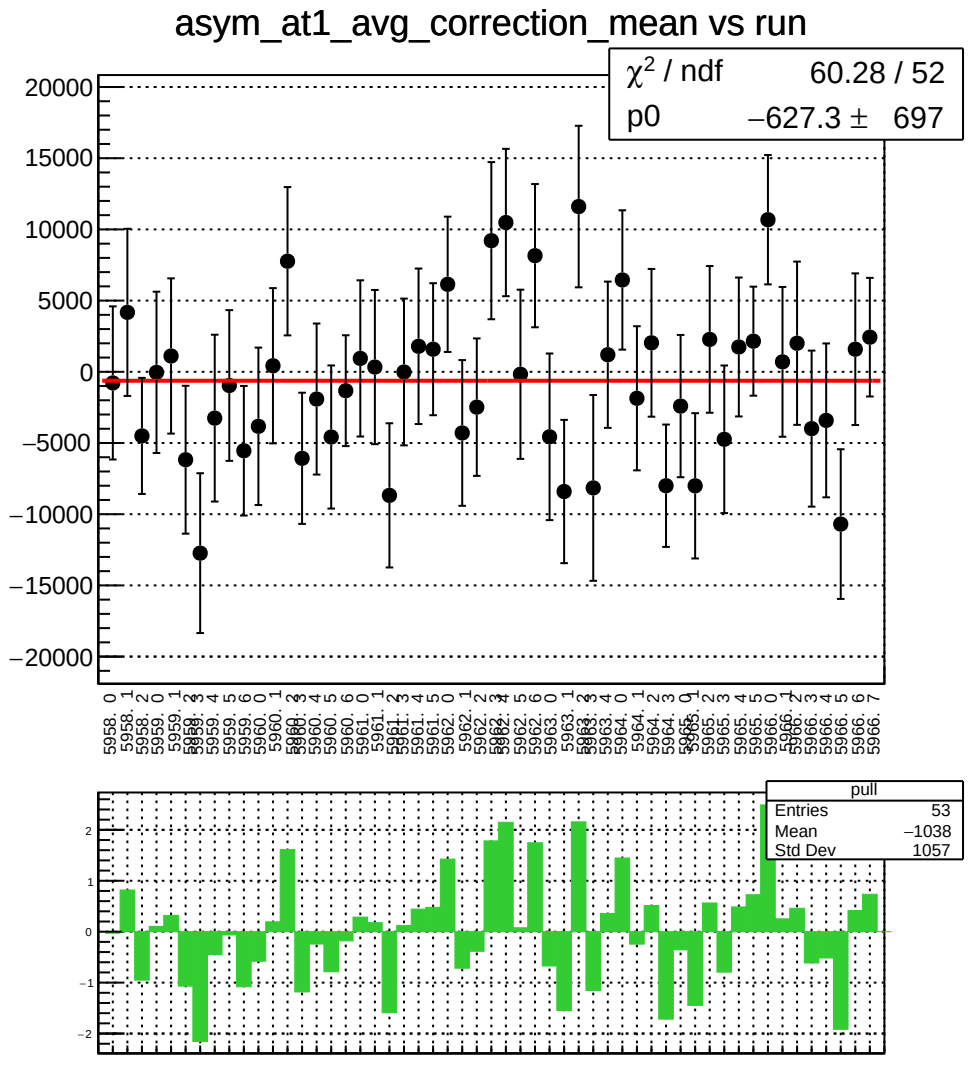

pull1D
Entries 53
Mean −0.007759
Std Dev 1.094

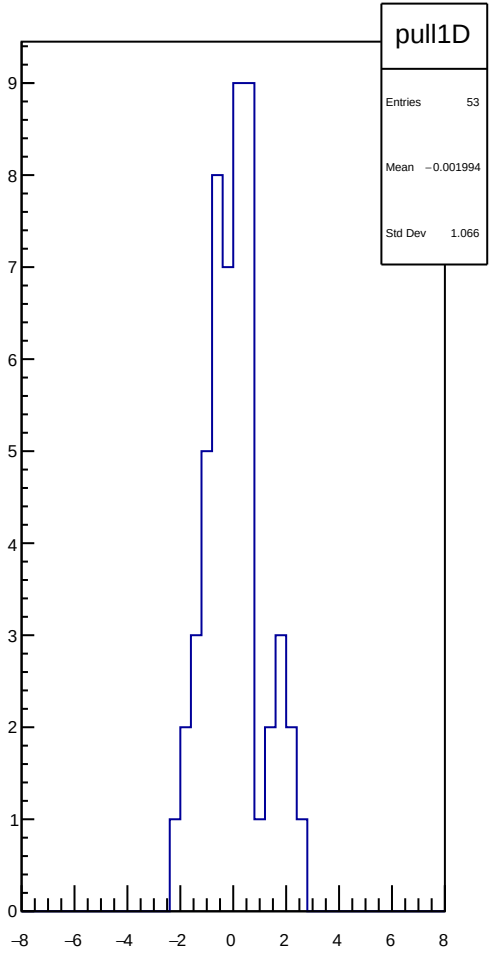

asym_atr_dd_rms vs run
χ² / ndf 4102 / 52
p0 4937 ± 4.851
7000
6500
6000
5500
5000
4500

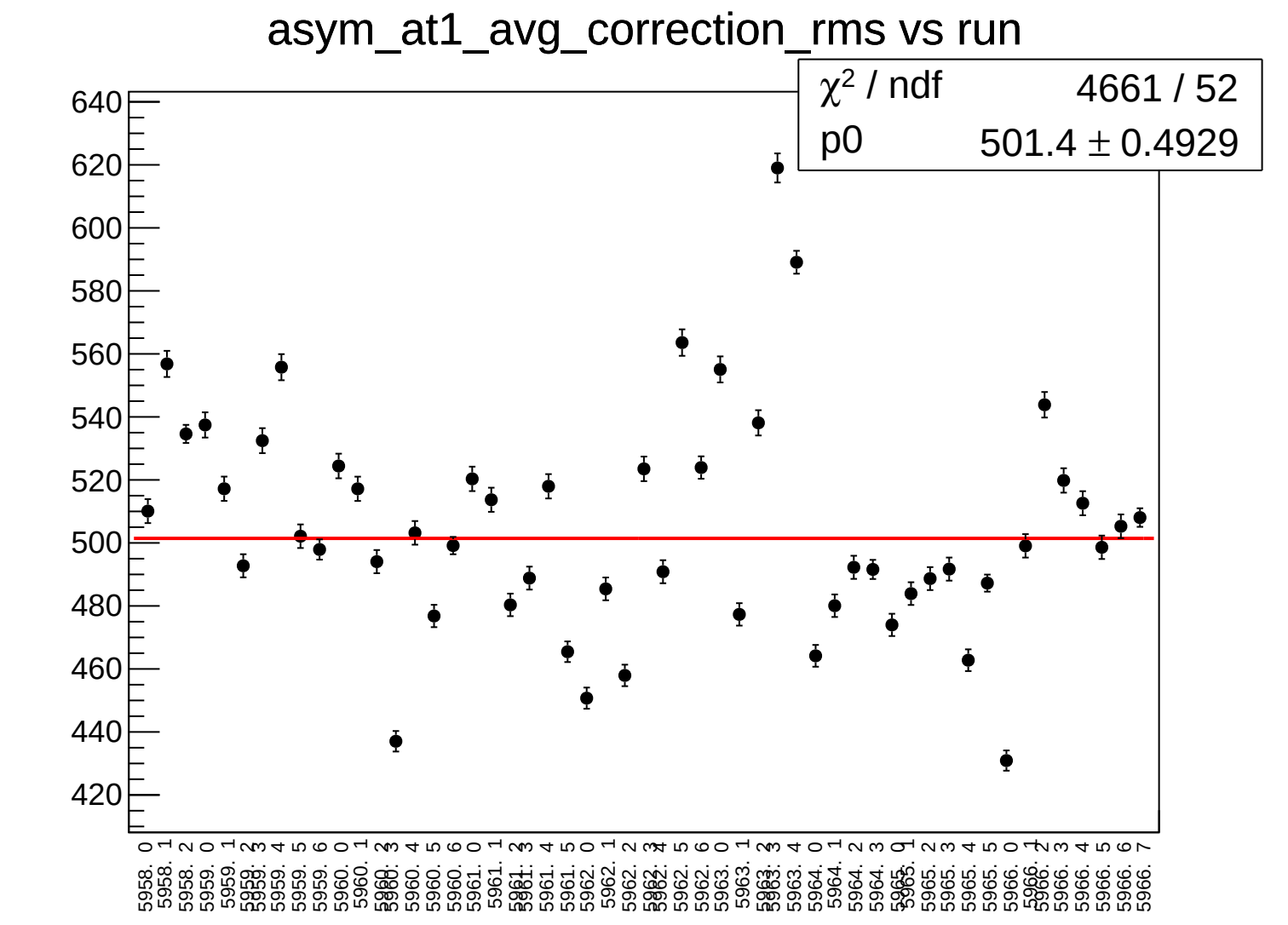

reg_asym_at1_avg_mean vs run
χ² / ndf 35.91 / 52
p0 −1472 ± 2563
×10³
pull
Entries 53
Mean 37.6
Std Dev 47.5


pull1D
Entries 53
Mean −0.01408
Std Dev 0.823


reg_asym_at1_avg_rms vs run
χ² / ndf 8129 / 52
p0 1840 ± 1.812
5500
5000
4500
4000
3500
3000
2500
2000
1500


asym_at1_avg_correction_mean vs run
χ² / ndf 60.28 / 52
p0 −627.3 ± 697
pull
Entries 53
Mean −1038
Std Dev 1057


pull1D
Entries 53
Mean −0.001994
Std Dev 1.066


asym_at1_avg_correction_rms vs run
χ² / ndf 4661 / 52
p0 501.4 ± 0.4929
640
620
600
580
560
540
520
500
480
460
440
420
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
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5963. 2
5963. 3
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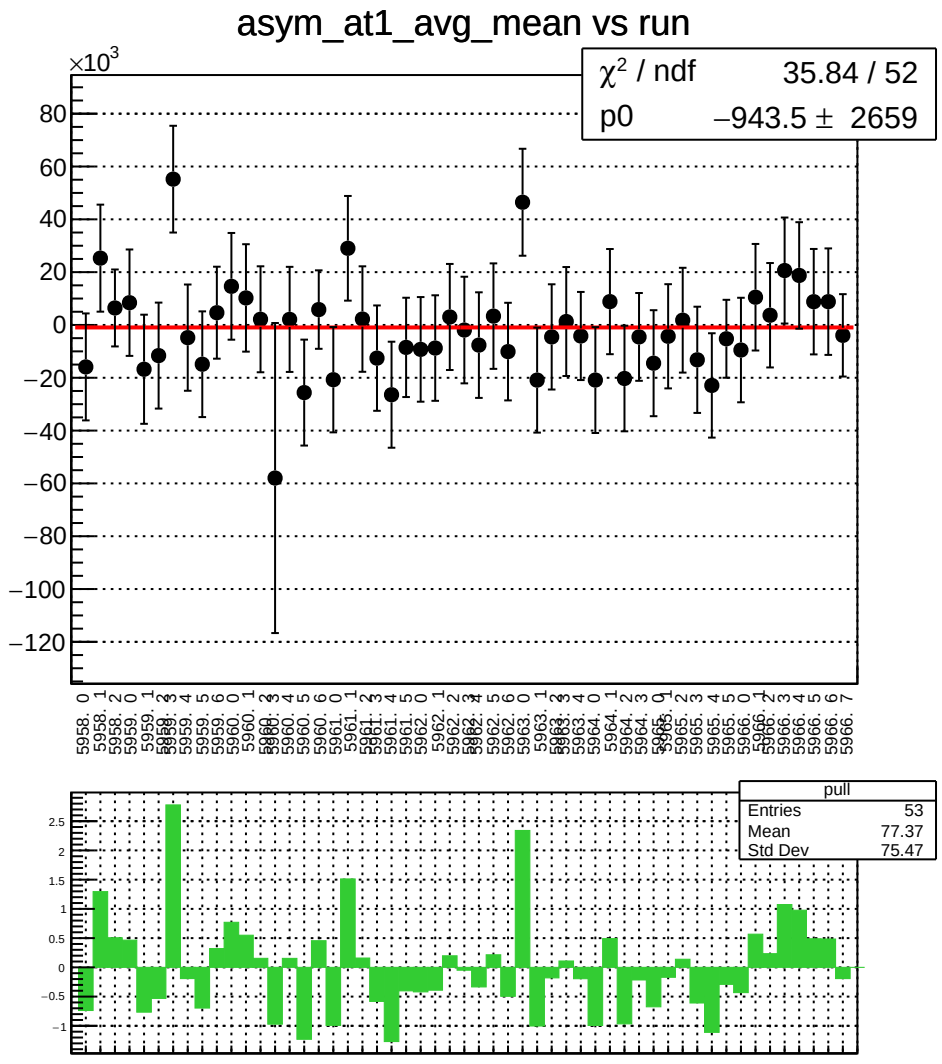
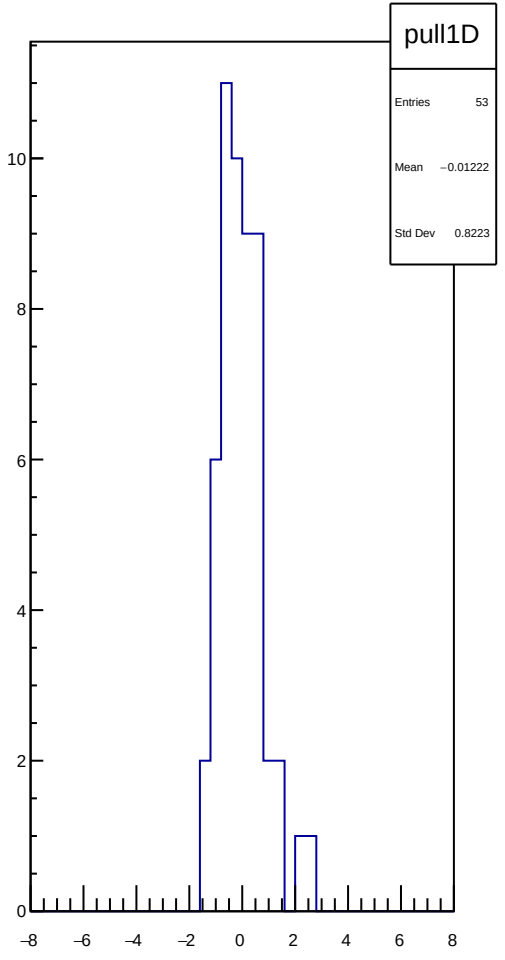
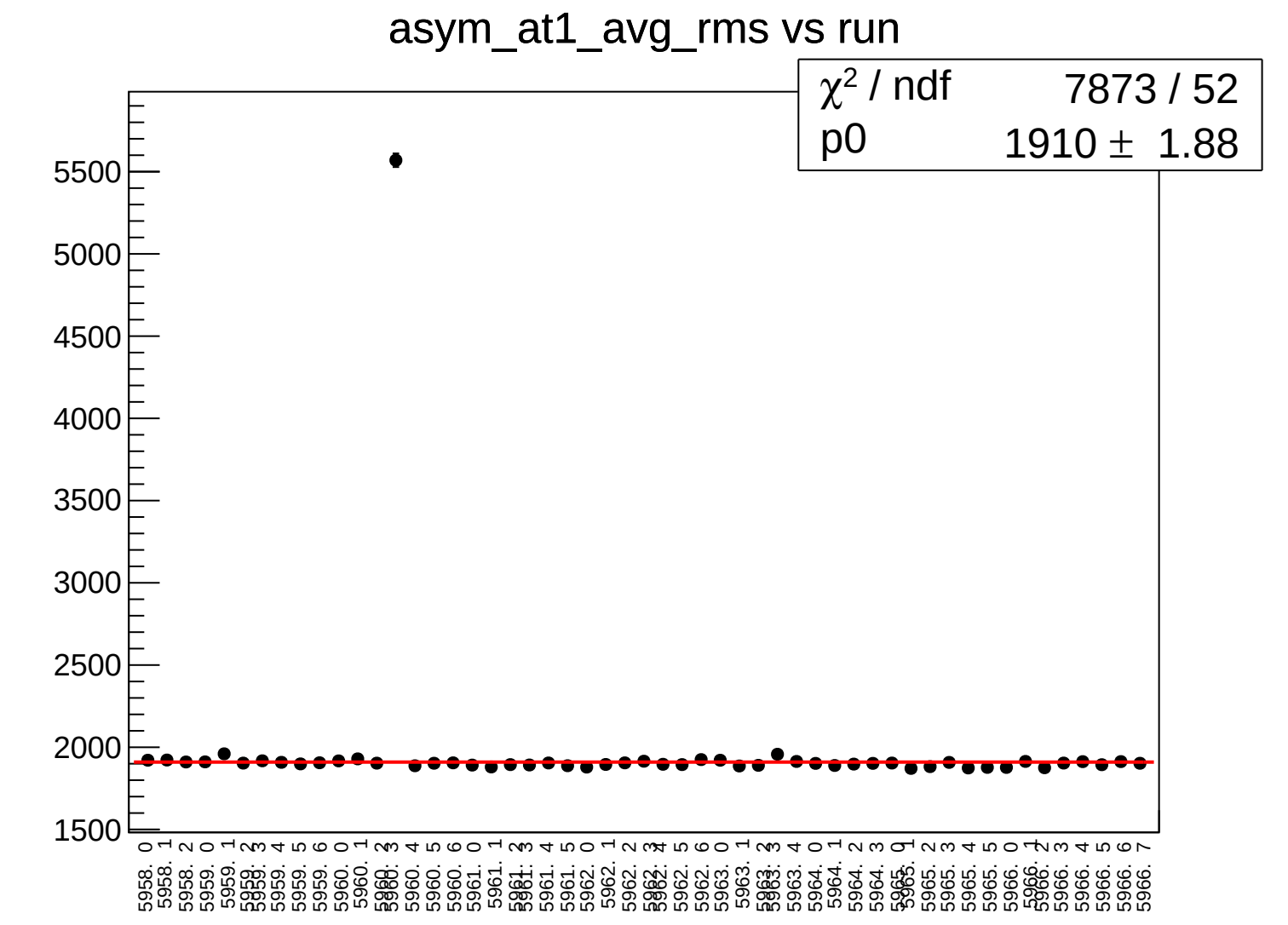
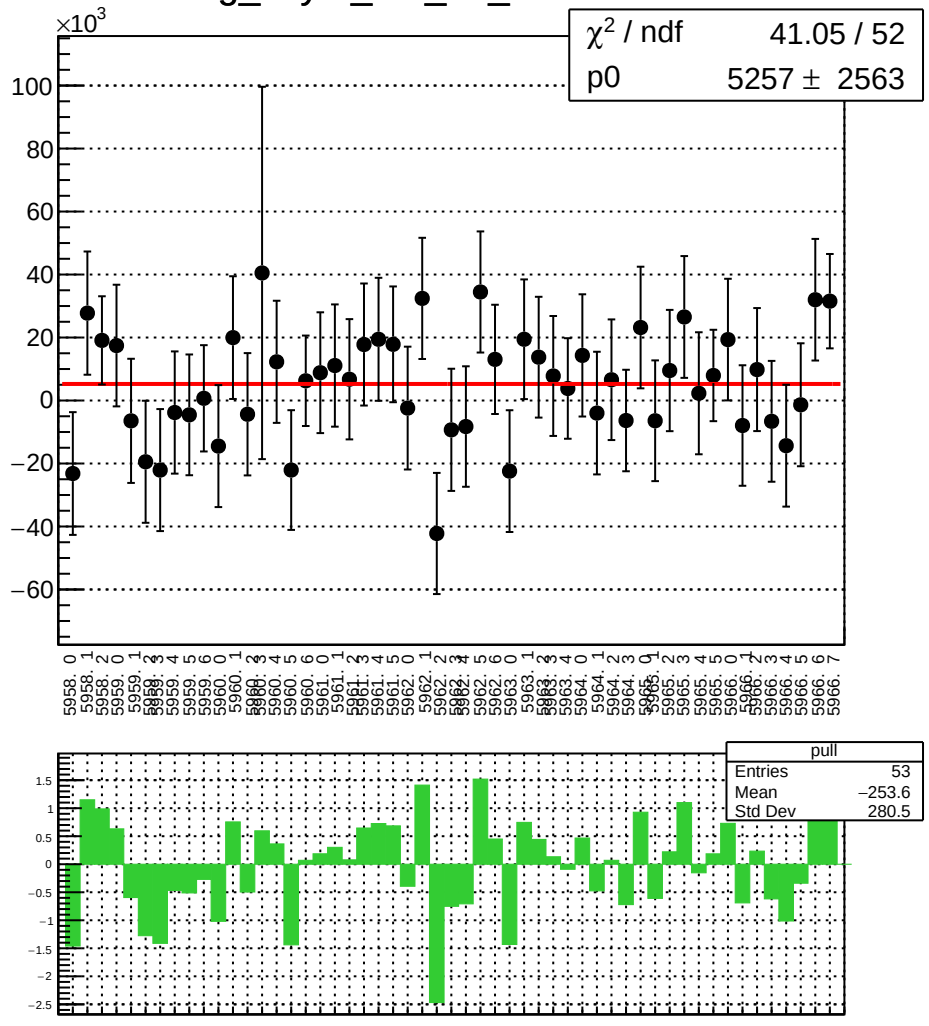
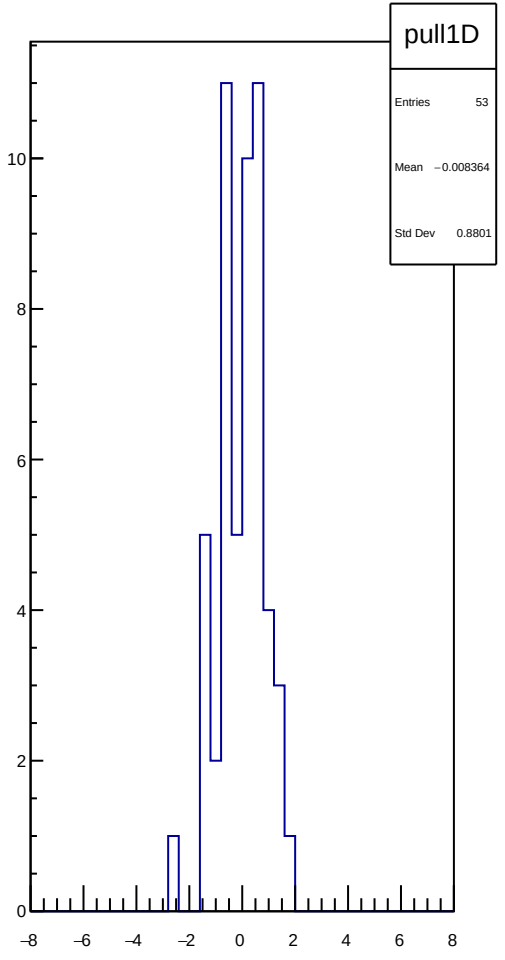
5964. 2
5964. 3
5964. 4
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

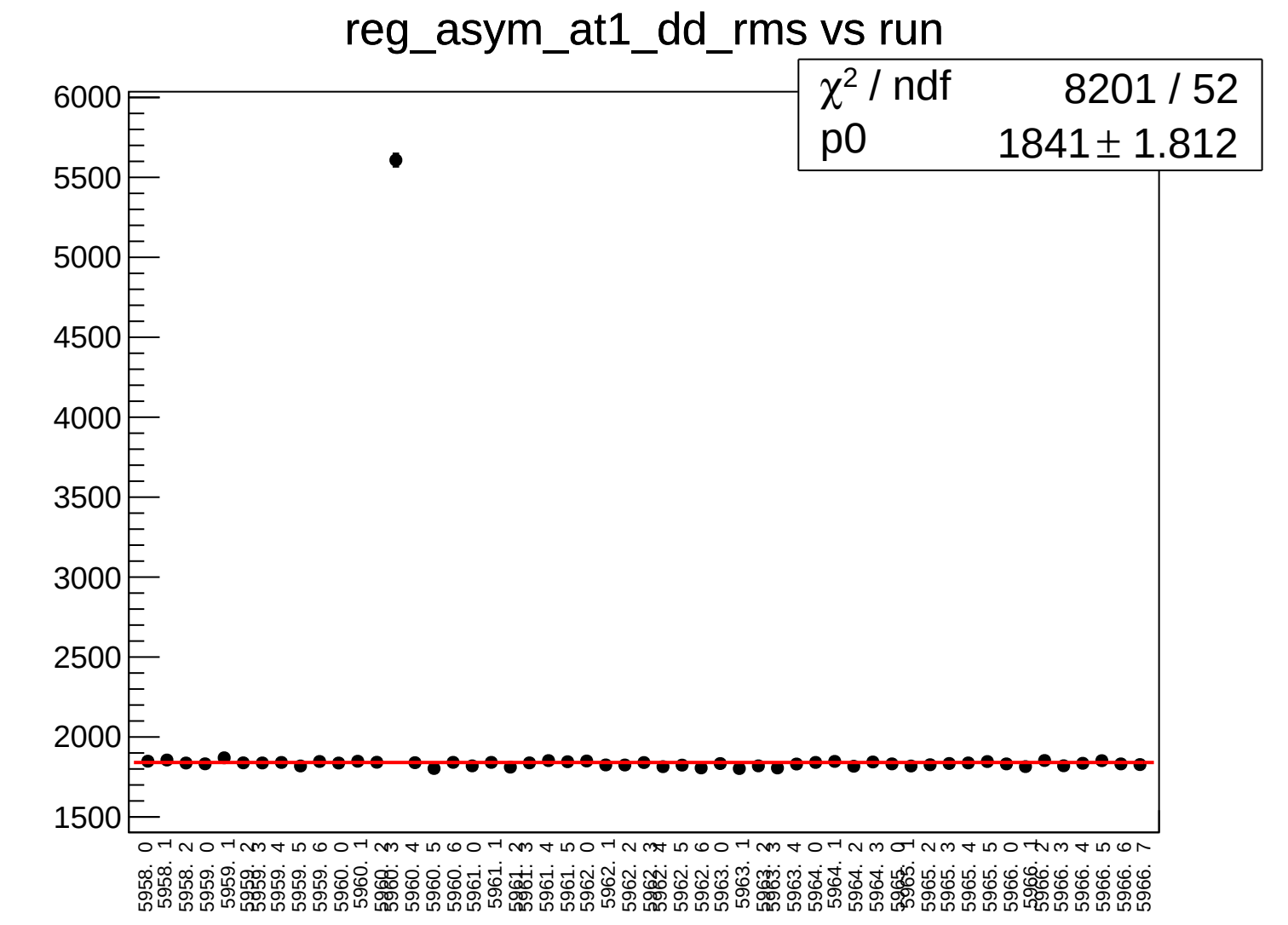

asym_at1_avg_mean vs run
×10^3
χ² / ndf 35.84 / 52
p0 −943.5 ± 2659
pull
Entries 53
Mean 77.37
Std Dev 75.47

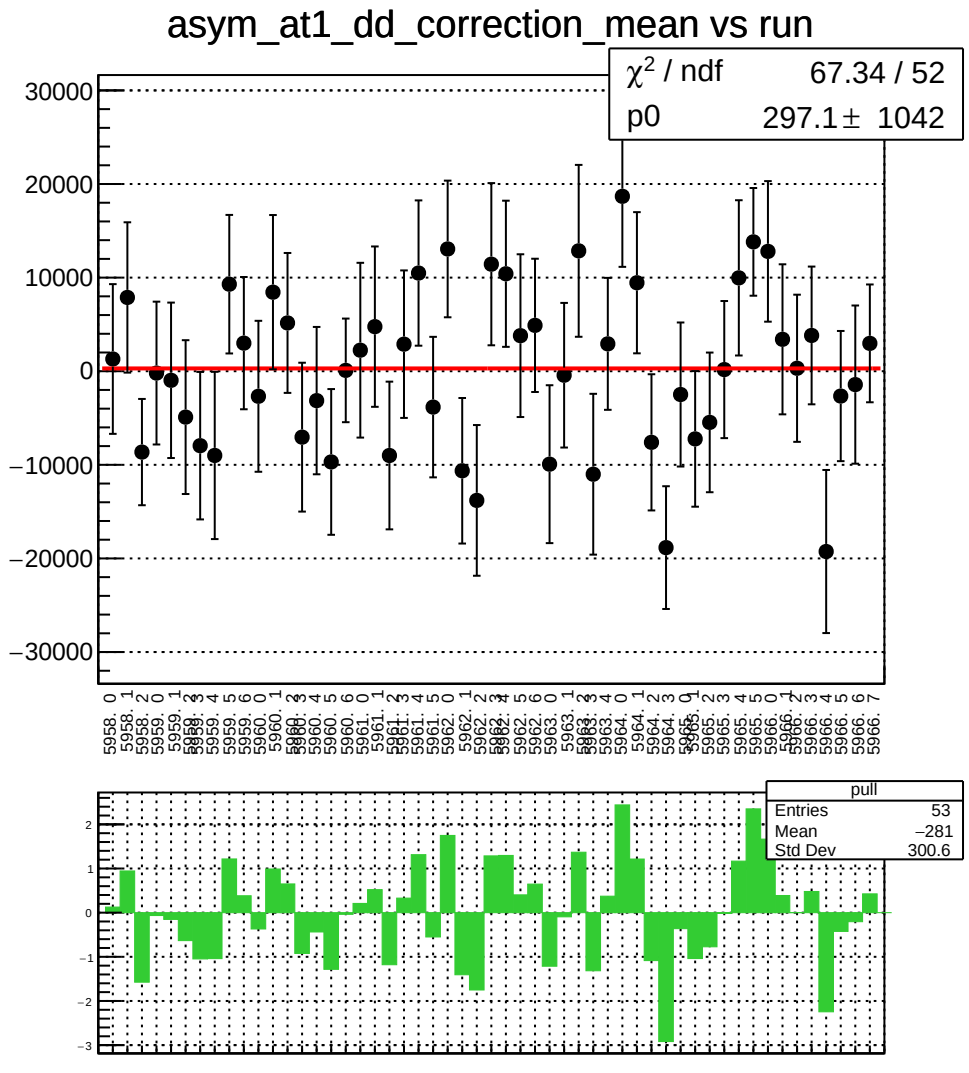

pull1D
Entries 53
Mean −0.01222
Std Dev 0.8223

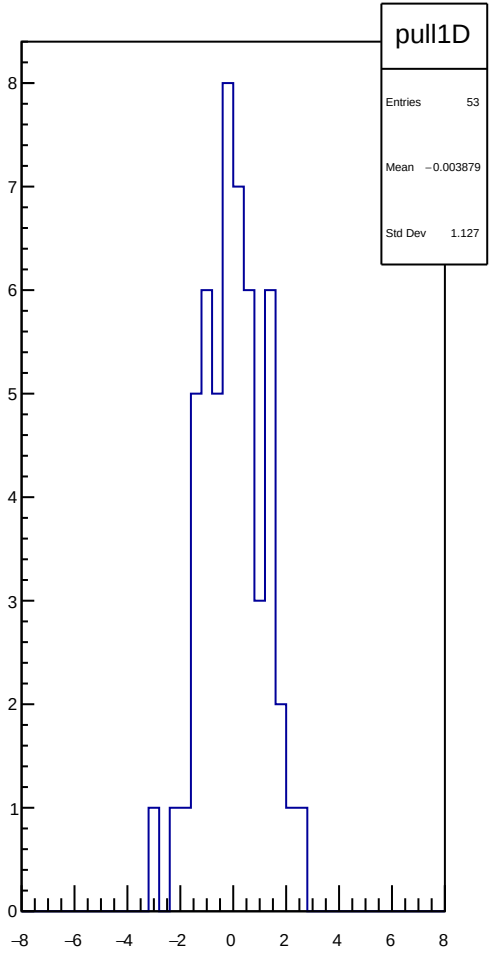

asym_at1_avg_rms vs run
χ² / ndf 7873 / 52
p0 1910 ± 1.88
5500
5000
4500
4000
3500
3000
2500
2000
1500
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

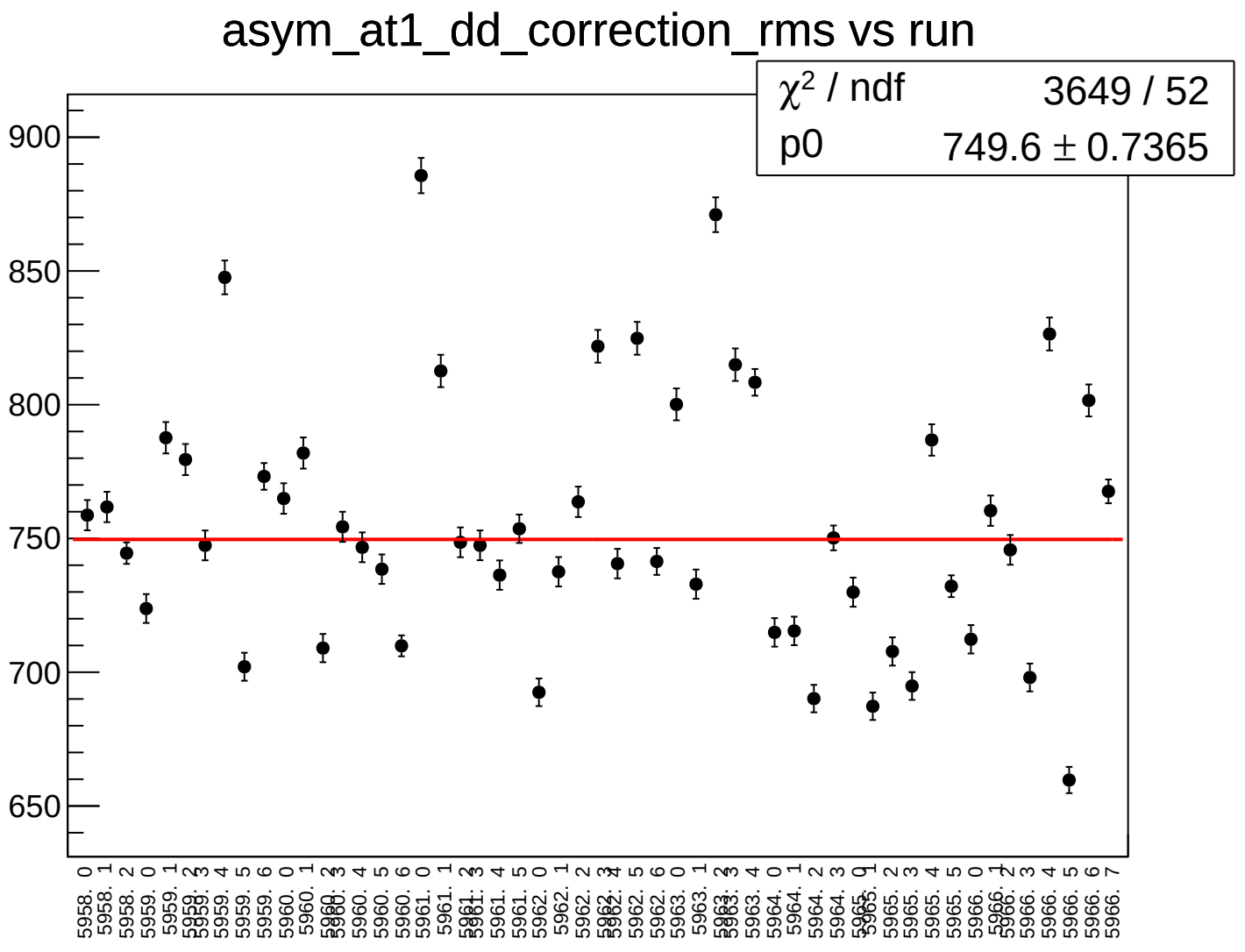

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 41.05 / 52
p0 5257 ± 2563
pull
Entries 53
Mean −253.6
Std Dev 280.5

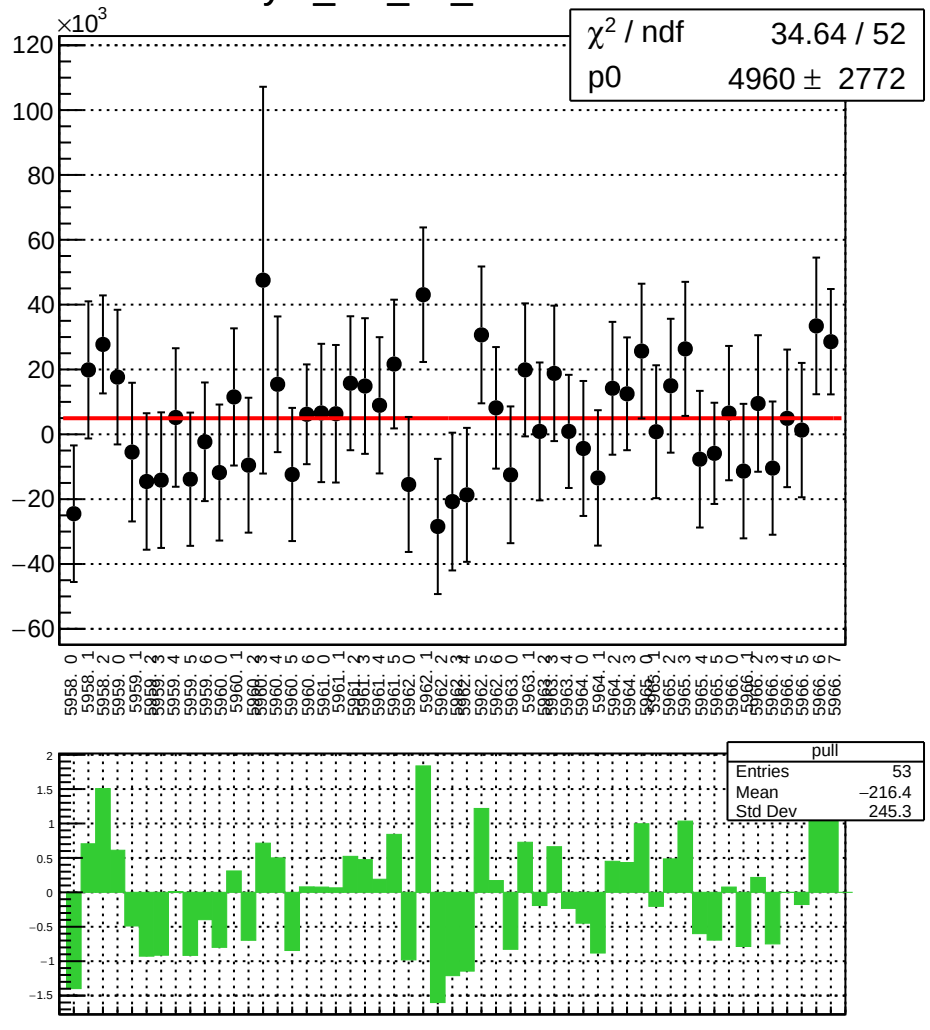

pull1D
Entries 53
Mean −0.008364
Std Dev 0.8801

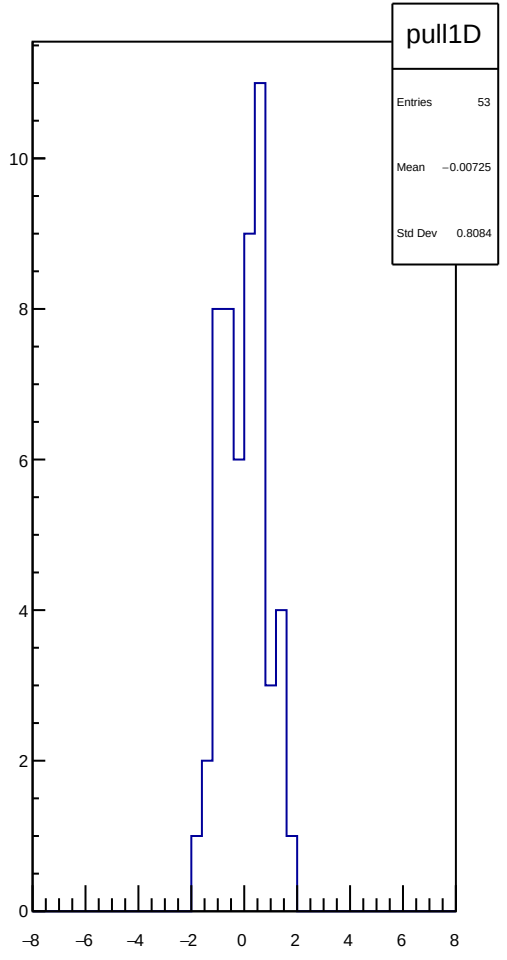

reg_asym_at1_dd_rms vs run
χ² / ndf 8201 / 52
p0 1841 ± 1.812
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

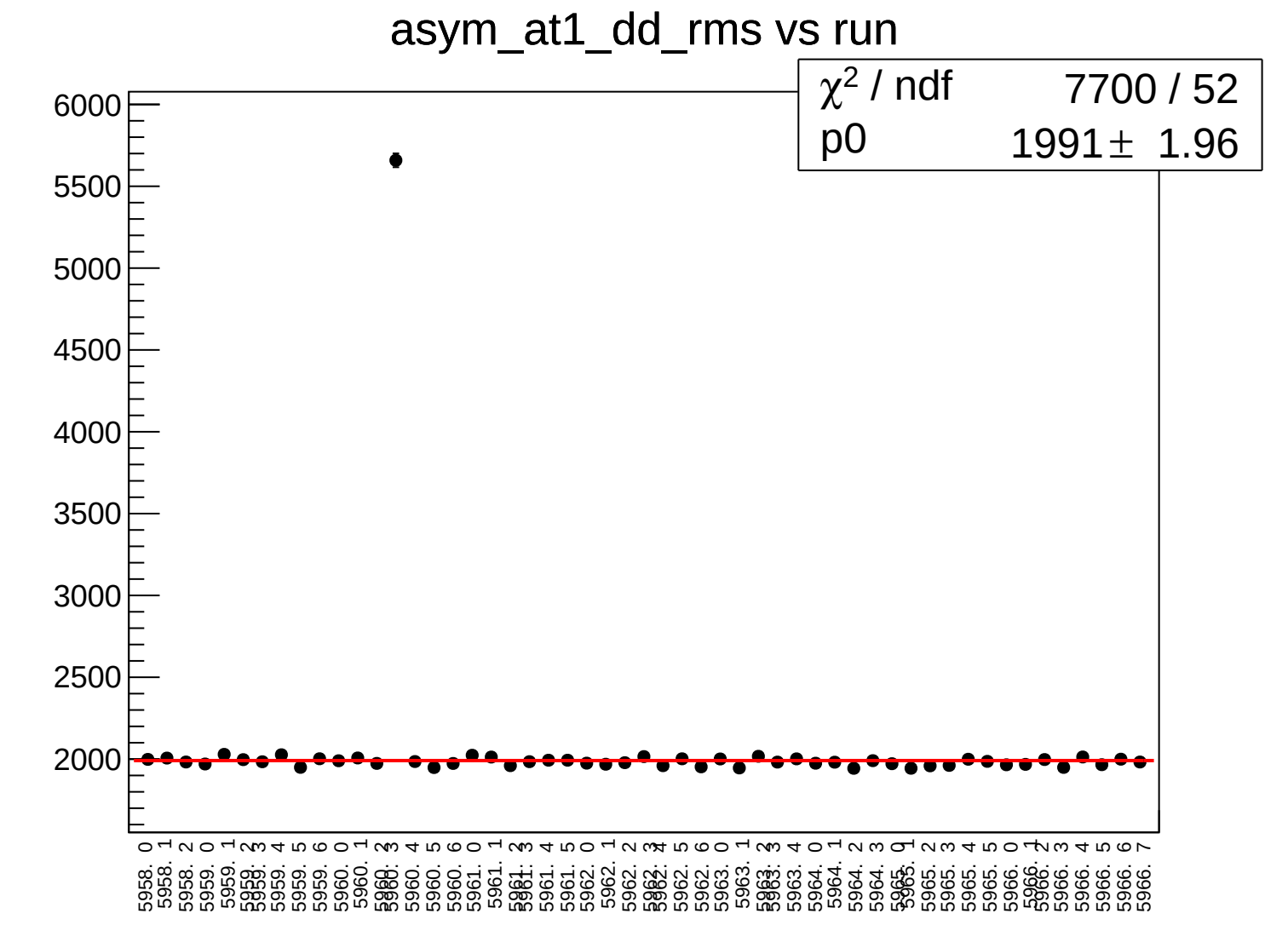

asym_at1_dd_correction_mean vs run
χ² / ndf 67.34 / 52
p0 297.1 ± 1042
pull
Entries 53
Mean −281
Std Dev 300.6

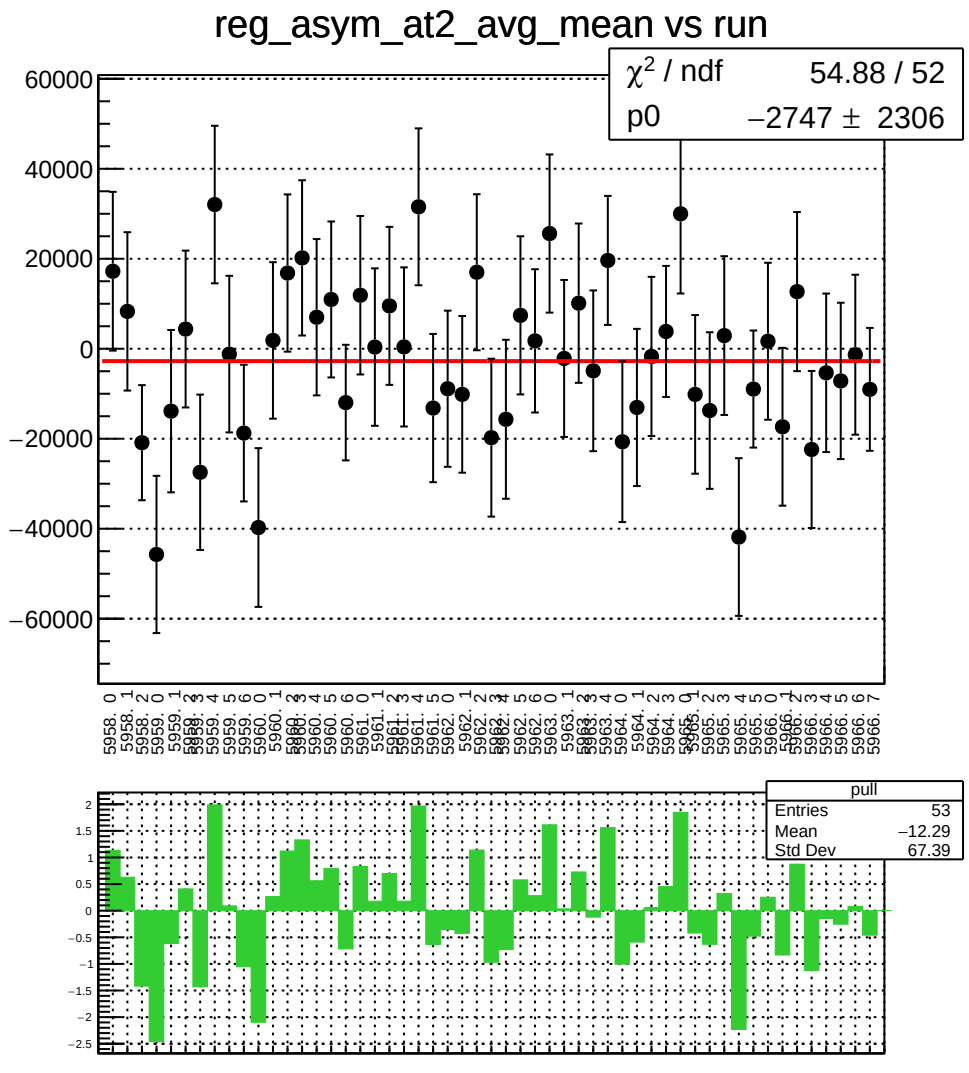

pull1D
Entries 53
Mean −0.003879
Std Dev 1.127

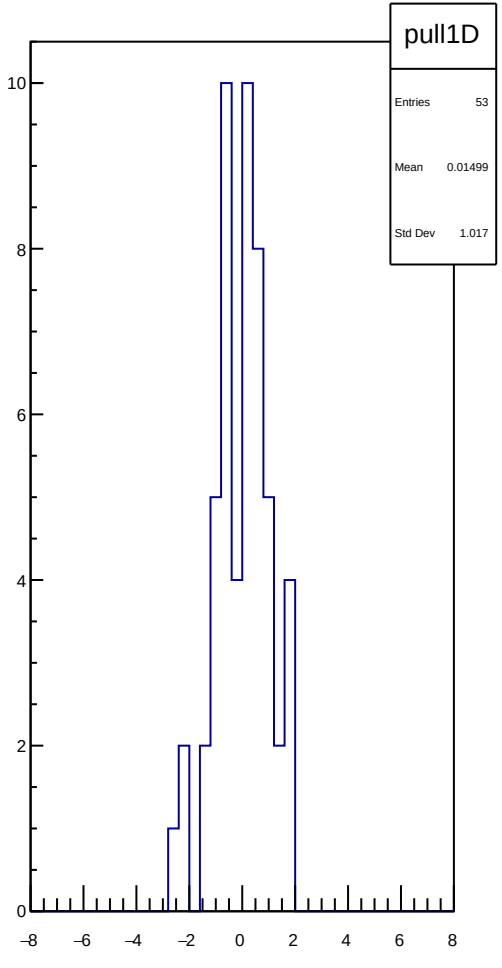

asym_at1_dd_correction_rms vs run
χ² / ndf 3649 / 52
p0 749.6 ± 0.7365
900
850
800
750
700
650

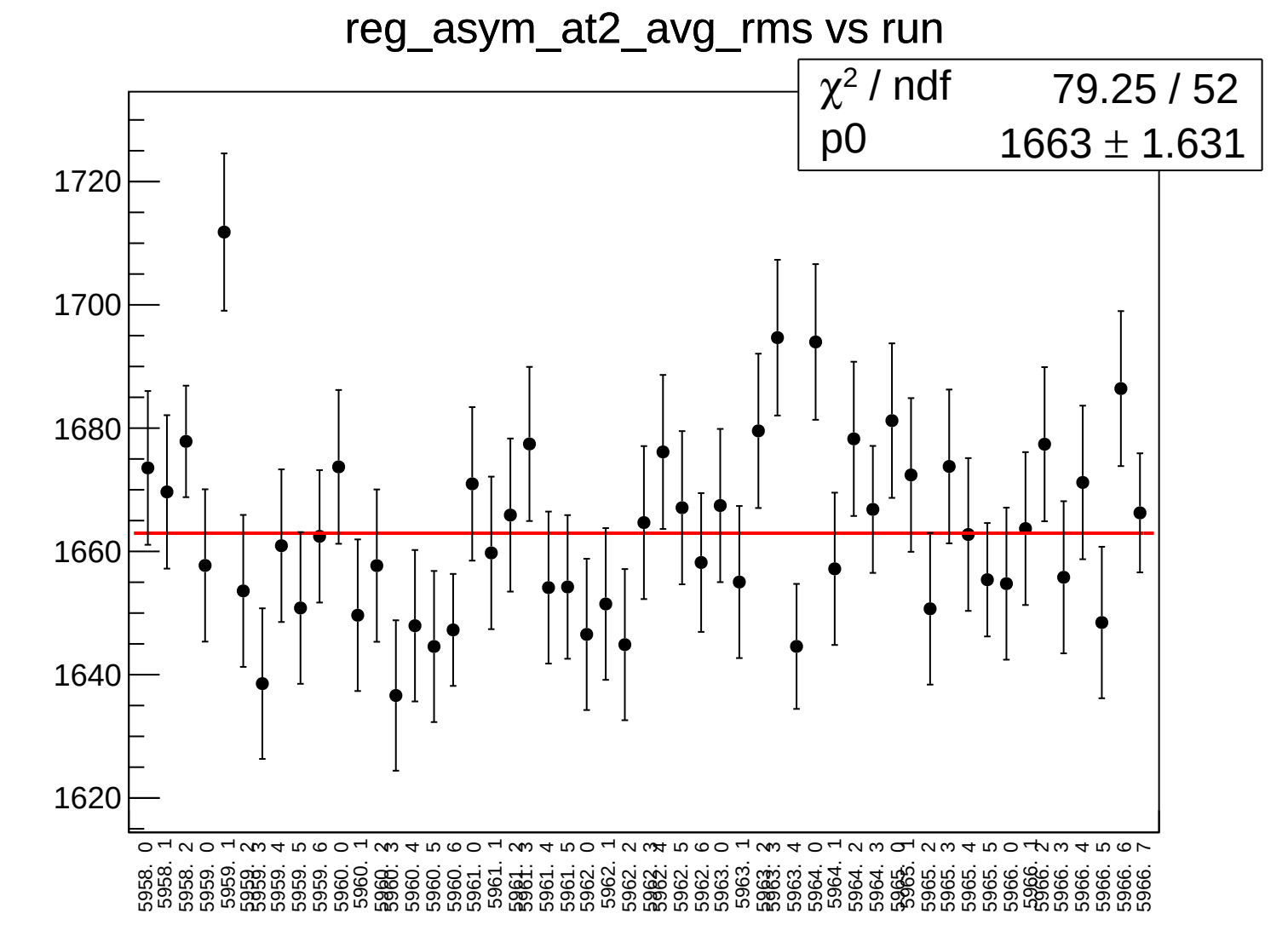

asym_at1_dd_mean vs run
×10^3
χ² / ndf 34.64 / 52
p0 4960 ± 2772
pull
Entries 53
Mean −216.4
Std Dev 245.3

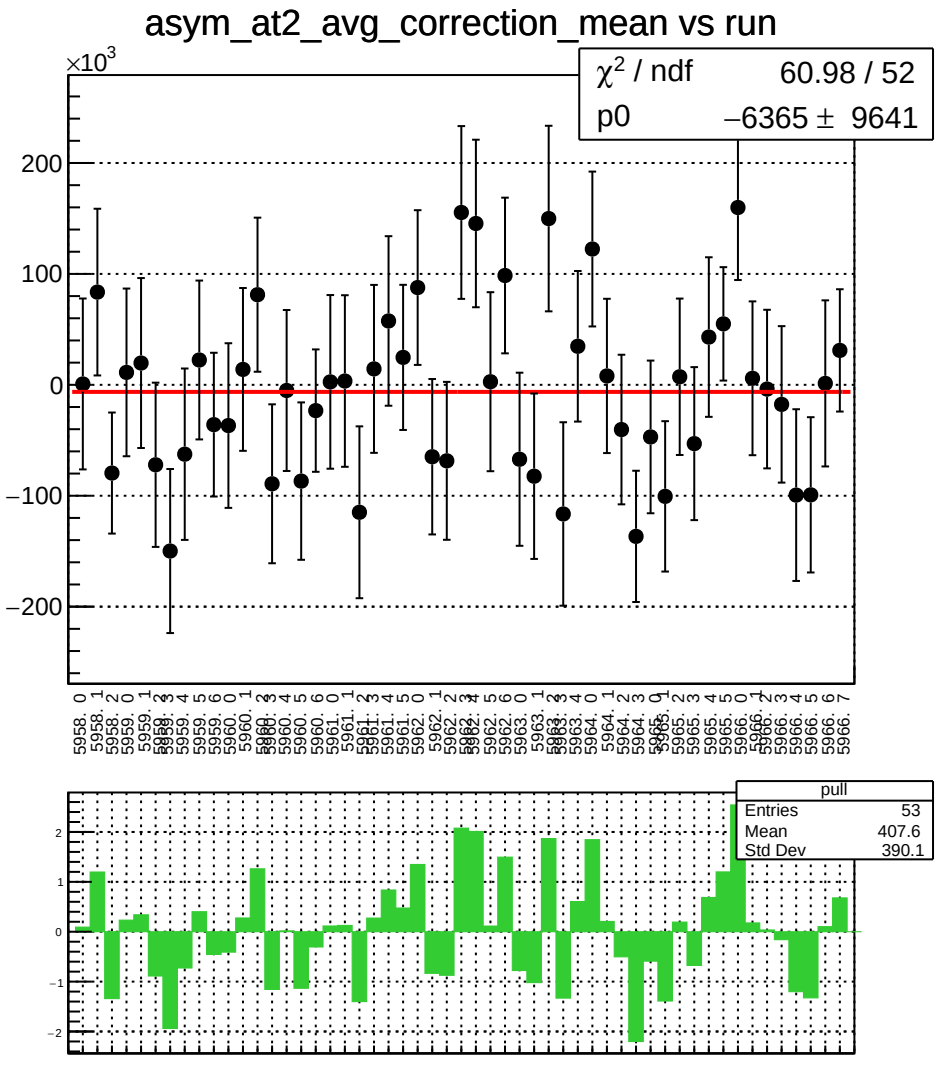

pull1D
Entries 53
Mean −0.00725
Std Dev 0.8084

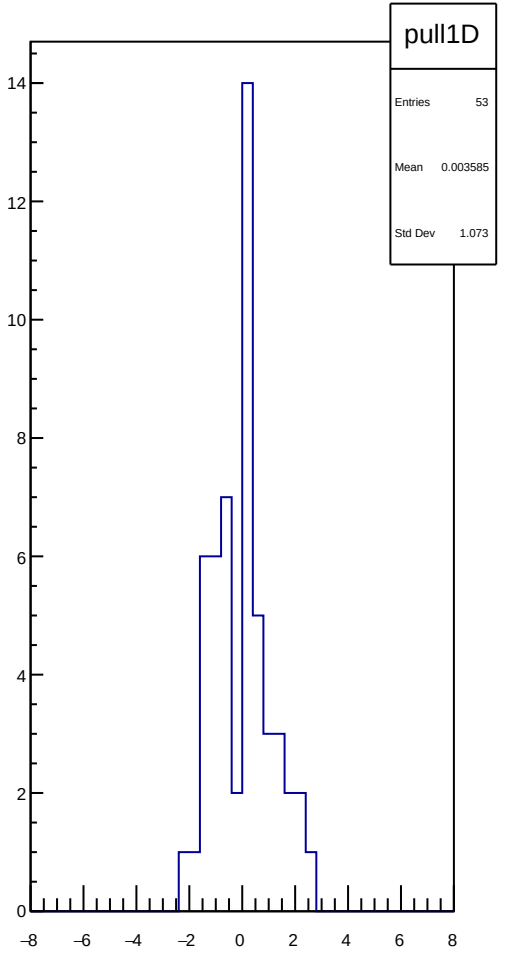

asym_at1_dd_rms vs run
χ² / ndf 7700 / 52
p0 1991 ± 1.96
6000
5500
5000
4500
4000
3500
3000
2500
2000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

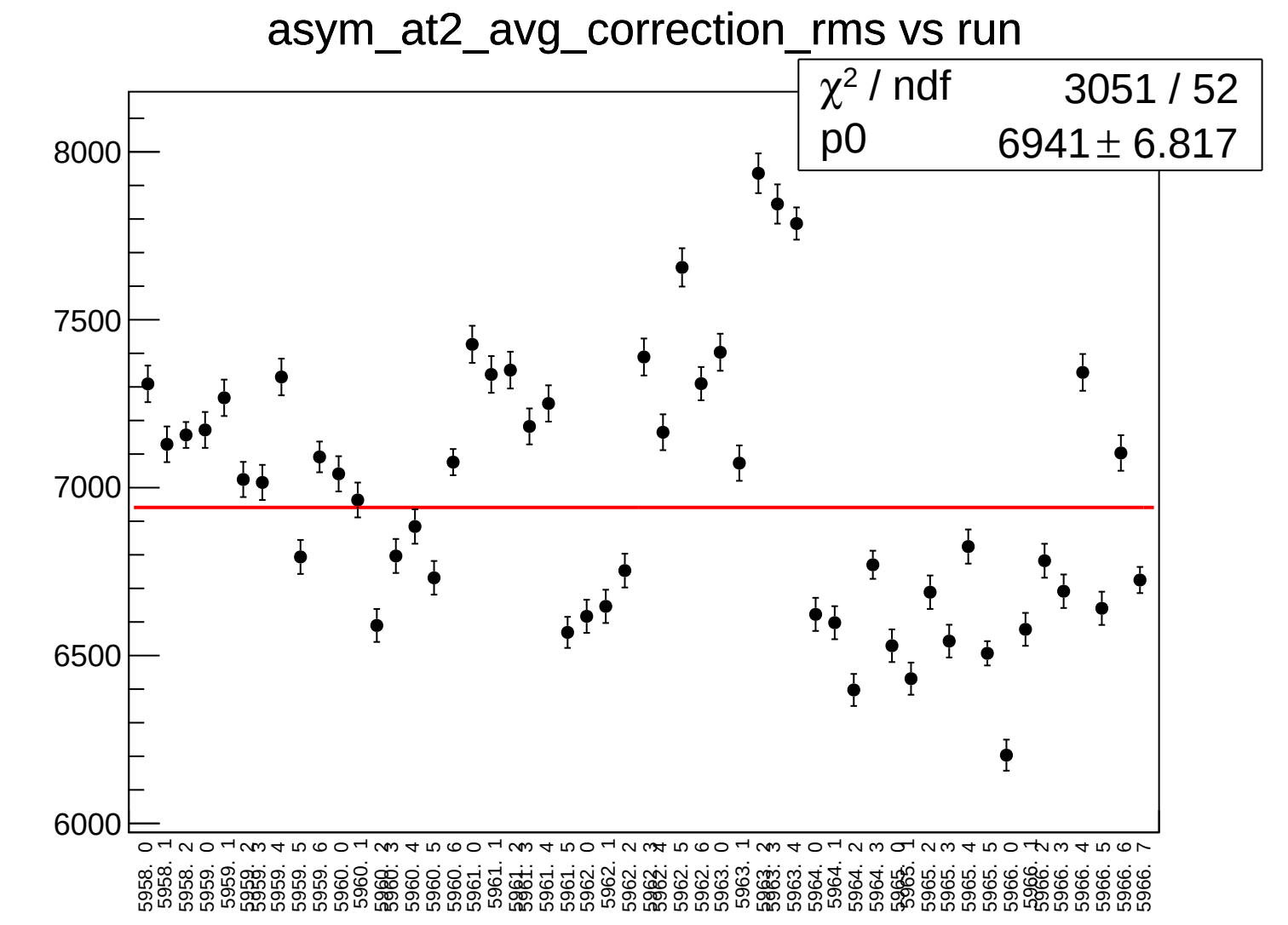

reg_asym_at2_avg_mean vs run
χ² / ndf 54.88 / 52
p0 −2747 ± 2306
pull
Entries 53
Mean −12.29
Std Dev 67.39

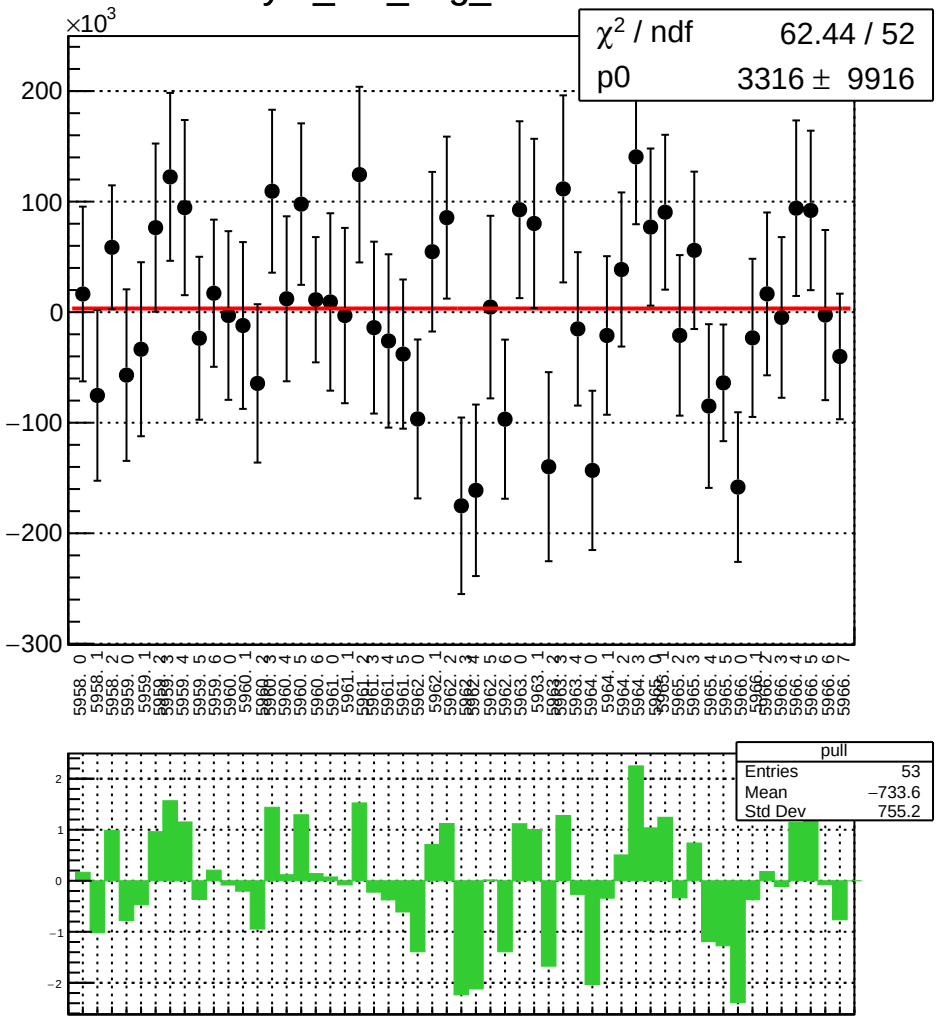

pull1D
Entries 53
Mean 0.01499
Std Dev 1.017

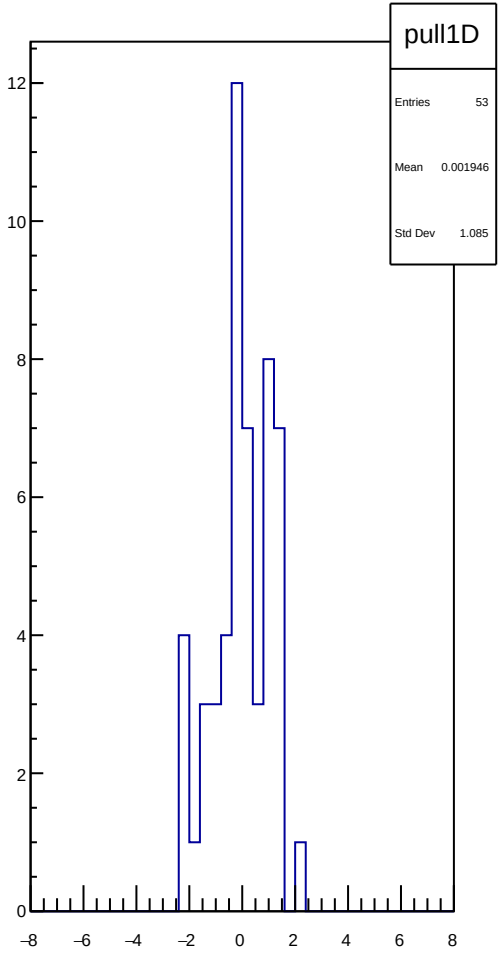

reg_asym_at2_avg_rms vs run
χ² / ndf 79.25 / 52
p0 1663 ± 1.631
1720
1700
1680
1660
1640
1620
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

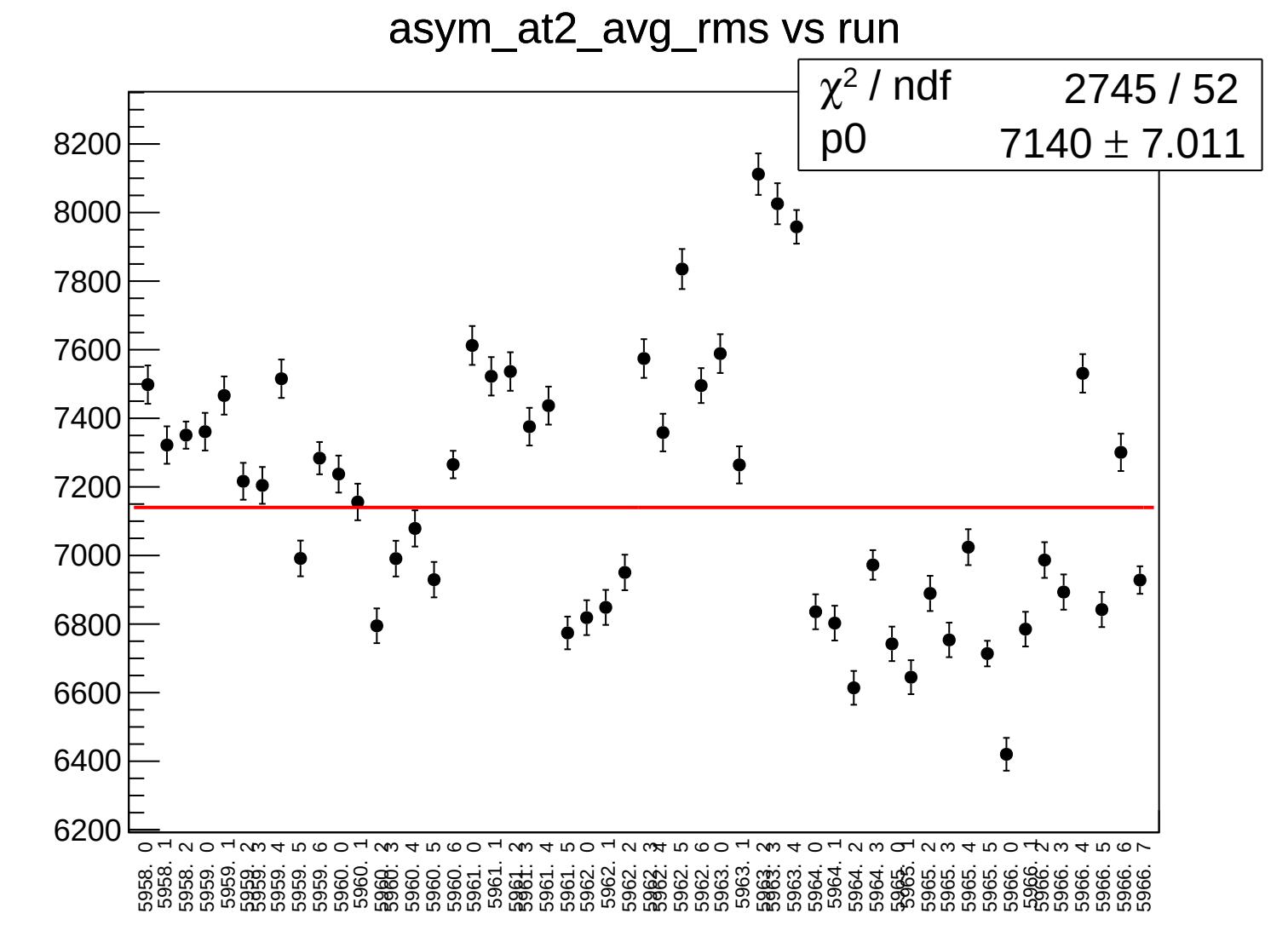

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 60.98 / 52
p0 −6365 ± 9641
200
100
0
−100
−200
pull
Entries 53
Mean 407.6
Std Dev 390.1
2
1
0
−1
−2

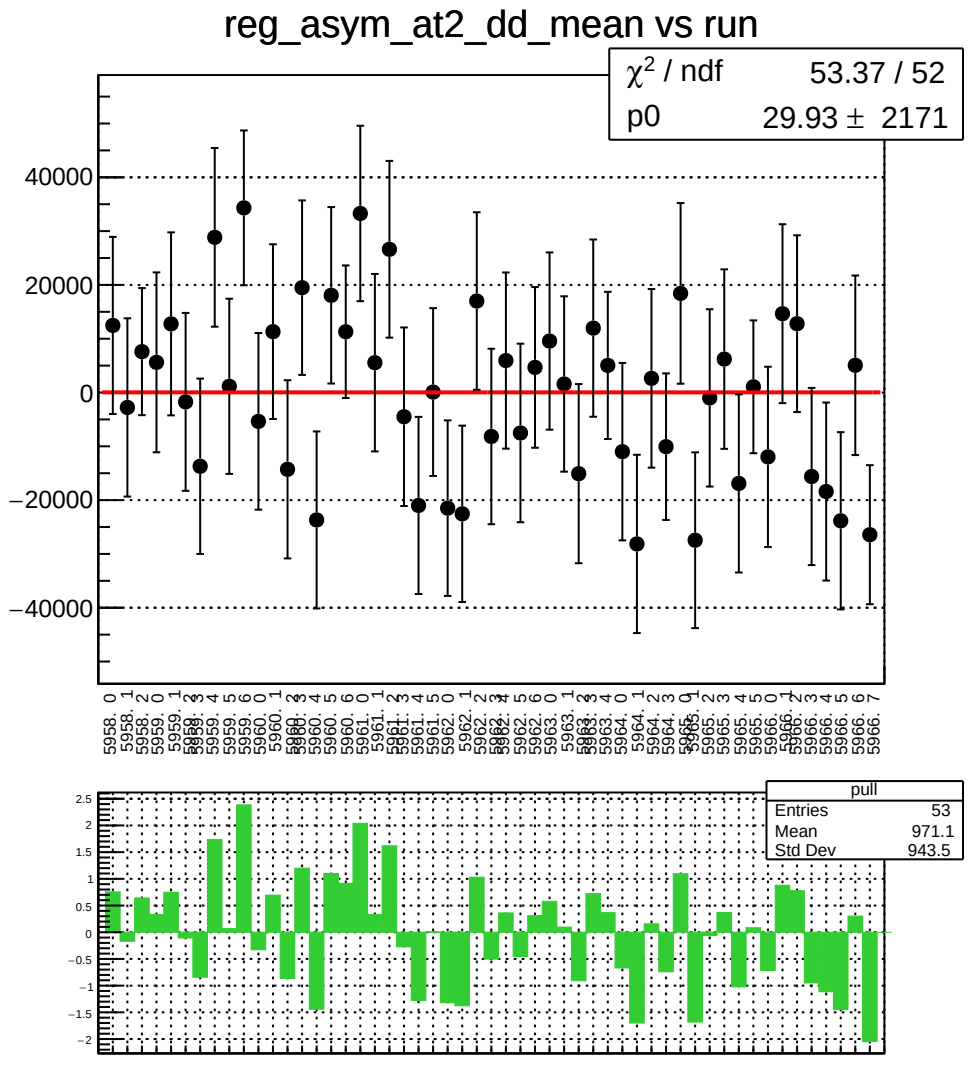

pull1D
Entries 53
Mean 0.003585
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

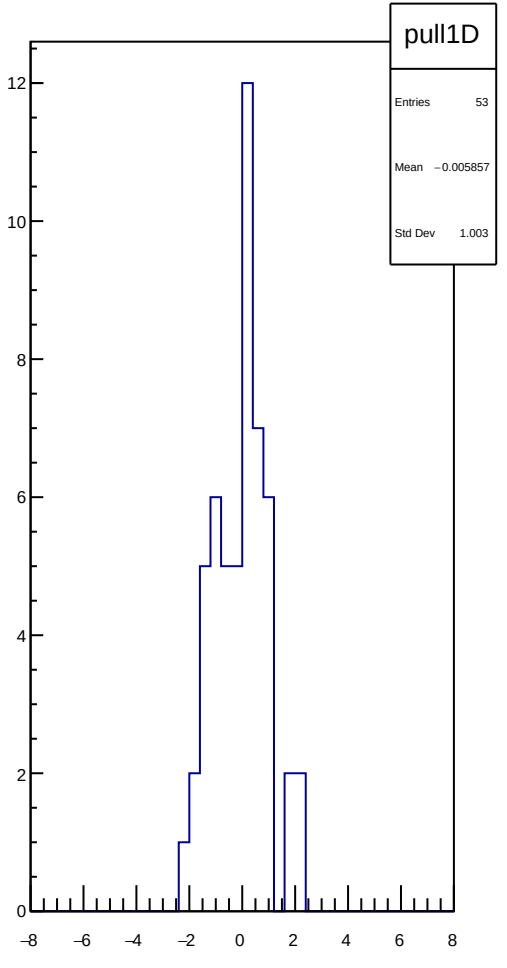

asym_at2_avg_correction_rms vs run
χ² / ndf 3051 / 52
p0 6941 ± 6.817
8000
7500
7000
6500
6000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

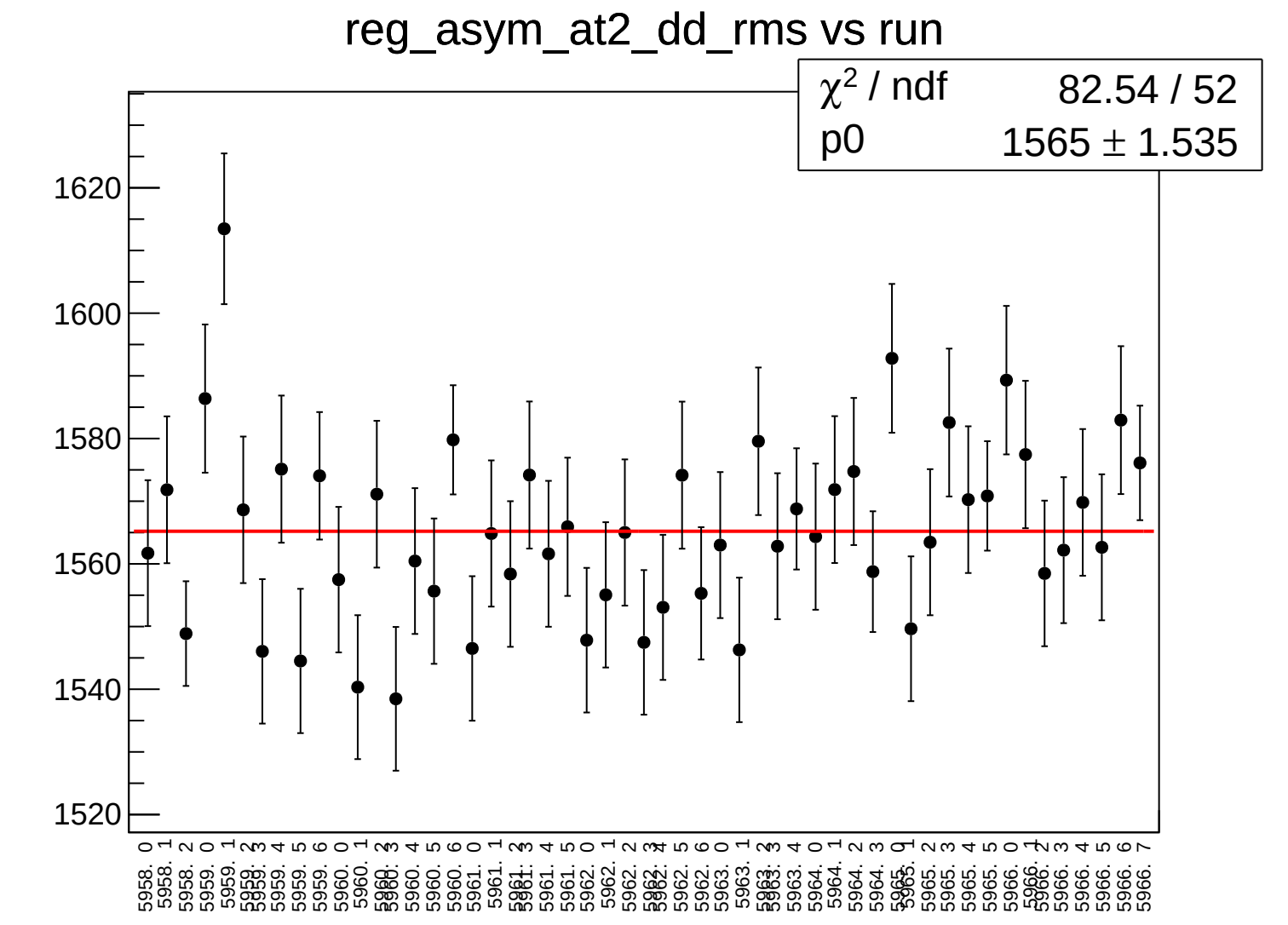

asym_at2_avg_mean vs run
×10^3
χ² / ndf 62.44 / 52
p0 3316 ± 9916
pull
Entries 53
Mean −733.6
Std Dev 755.2

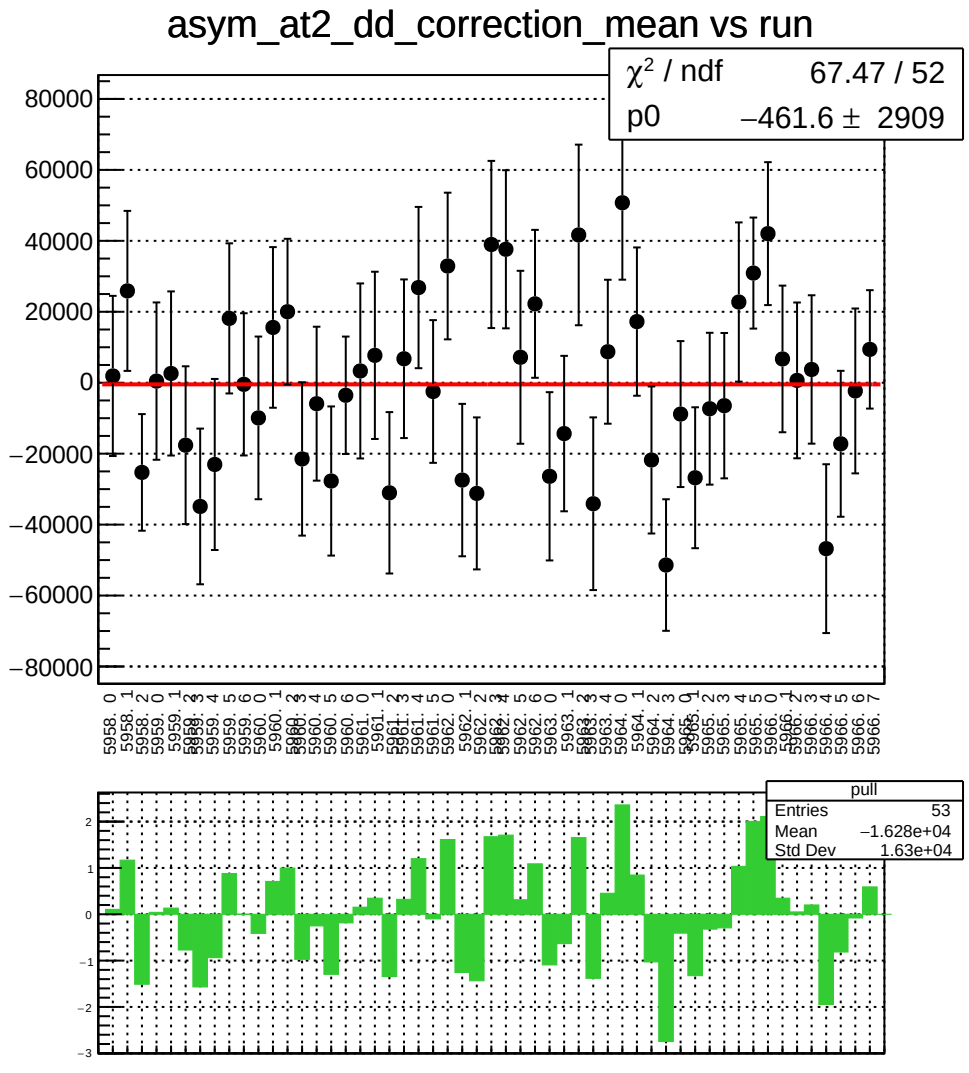

pull1D
Entries 53
Mean 0.001946
Std Dev 1.085

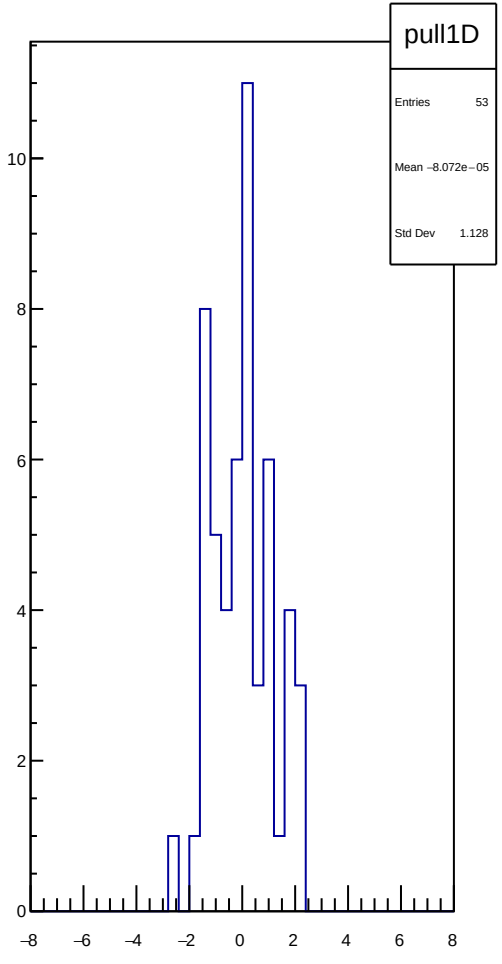

asym_at2_avg_rms vs run
χ^2 / ndf 2745 / 52
p0 7140 ± 7.011
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

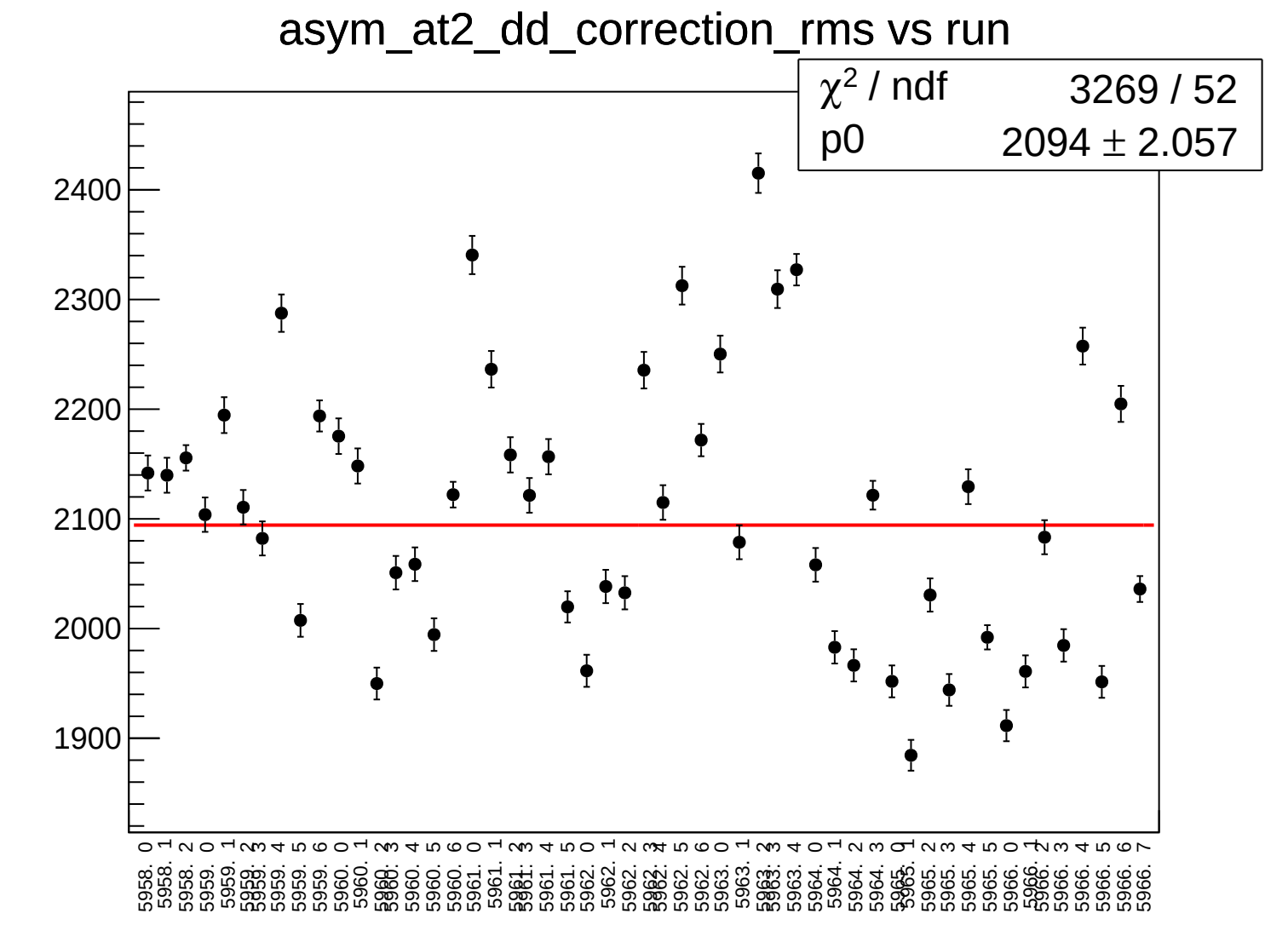

reg_asym_at2_dd_mean vs run
χ² / ndf 53.37 / 52
p0 29.93 ± 2171
40000
20000
0
−20000
−40000
pull
Entries 53
Mean 971.1
Std Dev 943.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

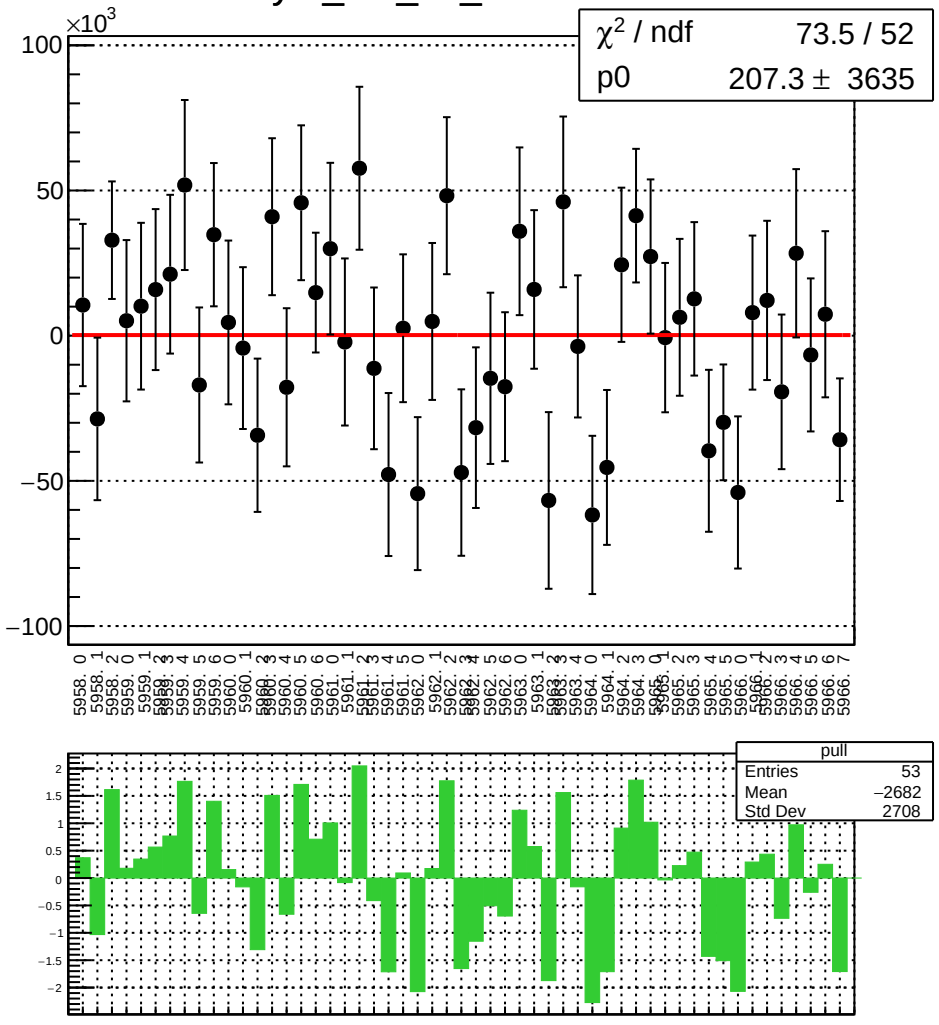

pull1D
Entries 53
Mean −0.005857
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

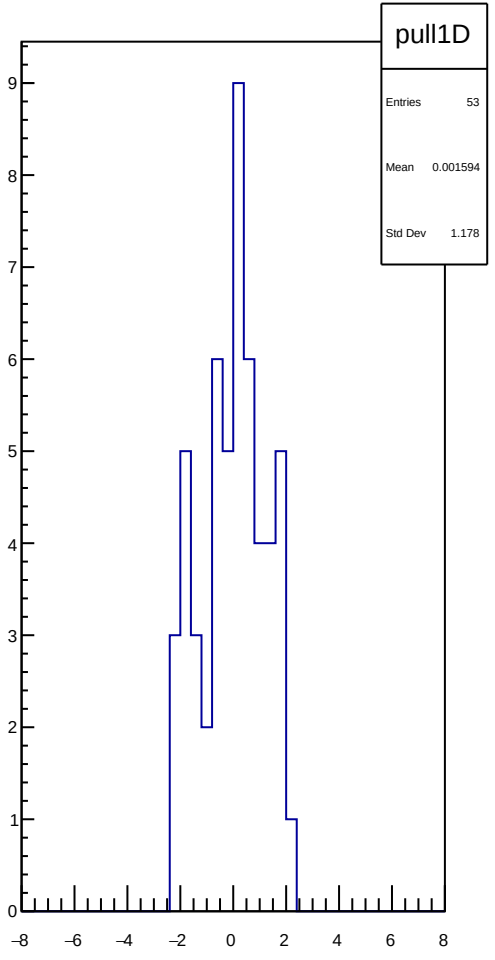

reg_asym_at2_dd_rms vs run
χ² / ndf 82.54 / 52
p0 1565 ± 1.535
1620
1600
1580
1560
1540
1520
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

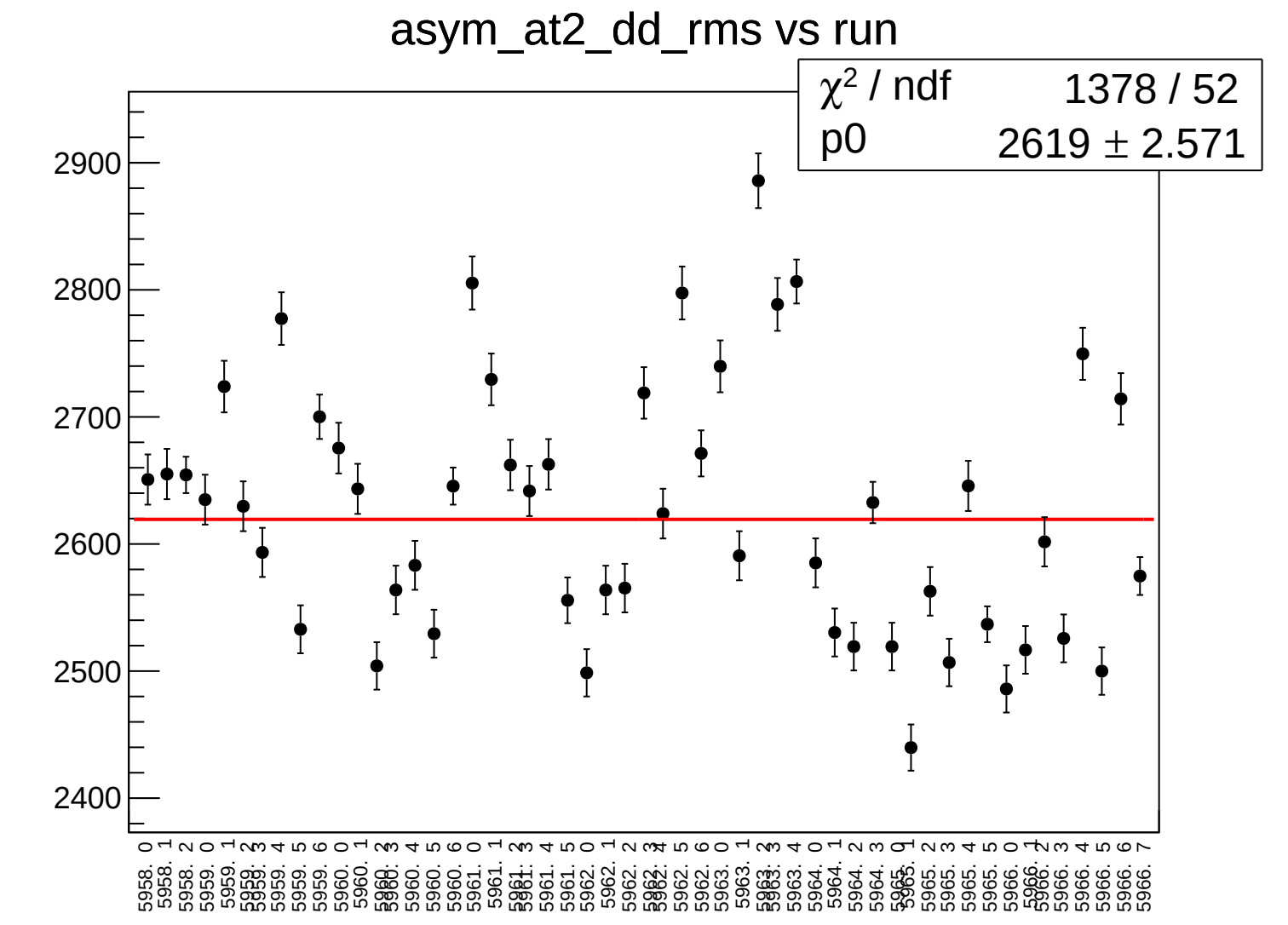

asym_at2_dd_correction_mean vs run
χ² / ndf 67.47 / 52
p0 −461.6 ± 2909
pull
Entries 53
Mean −1.628e+04
Std Dev 1.63e+04

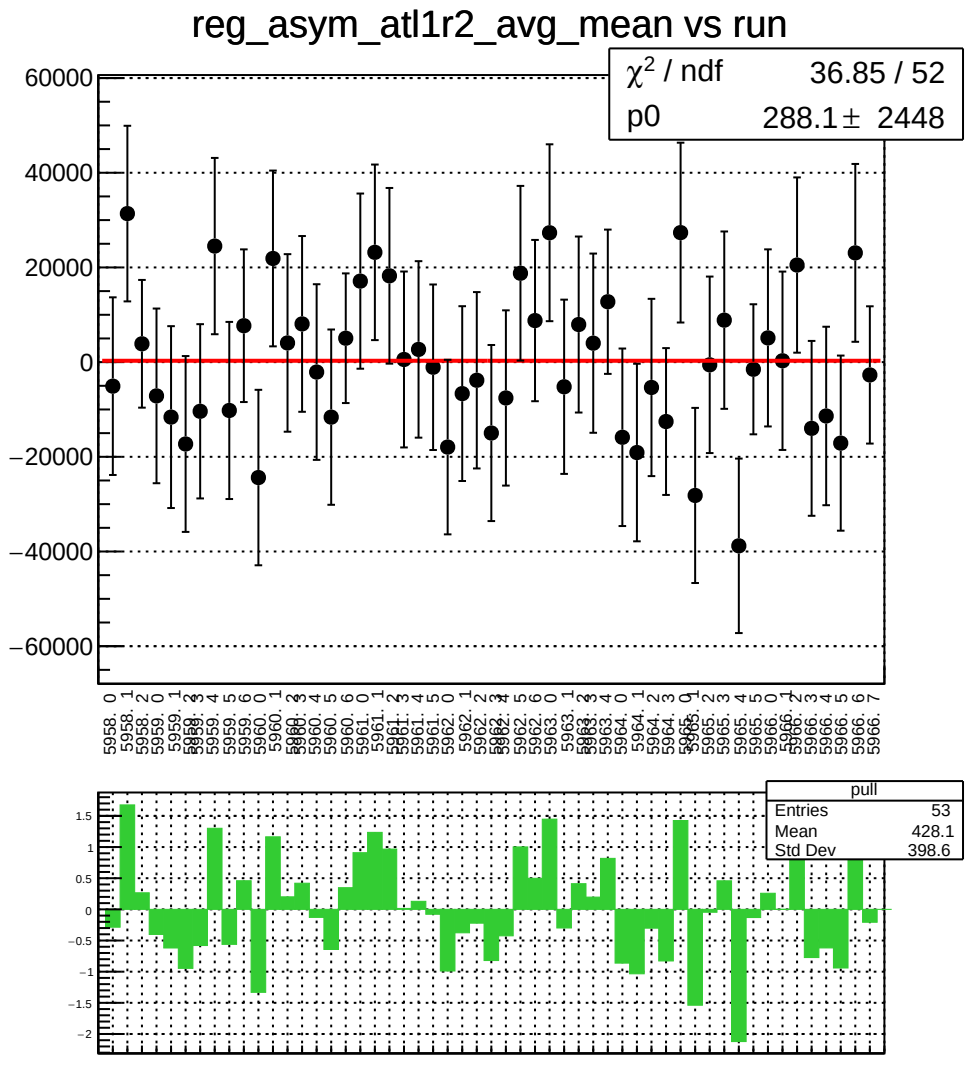

pull1D
Entries 53
Mean −8.072e−05
Std Dev 1.128

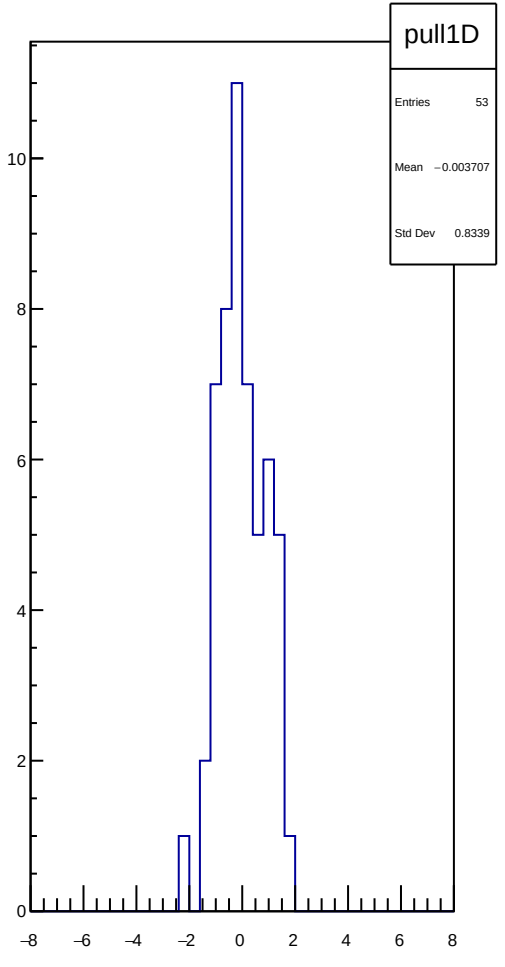

asym_at2_dd_correction_rms vs run
χ² / ndf 3269 / 52
p0 2094 ± 2.057
2400
2300
2200
2100
2000
1900

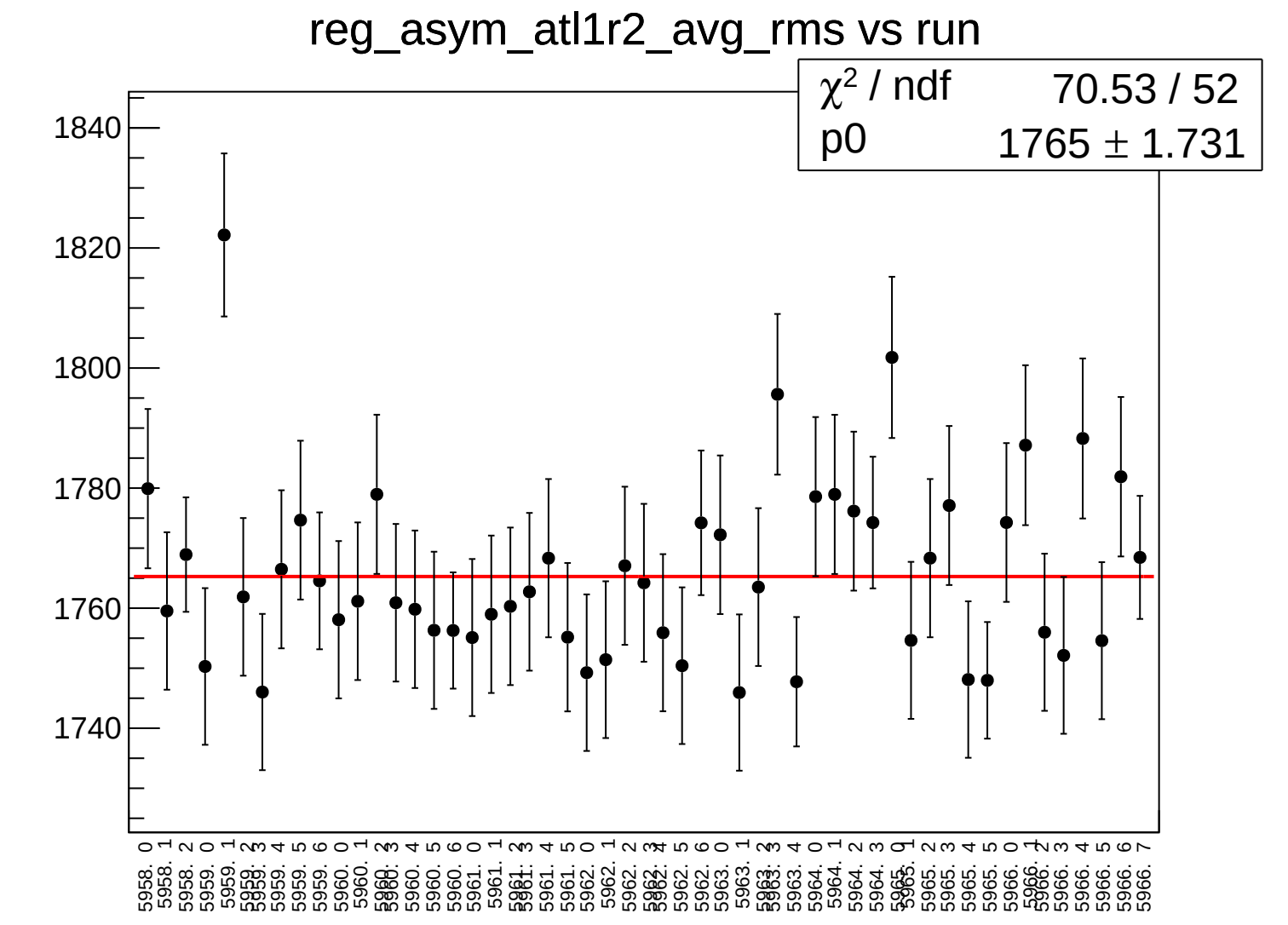

asym_at2_dd_mean vs run
×10^3
χ² / ndf 73.5 / 52
p0 207.3 ± 3635
pull
Entries 53
Mean −2682
Std Dev 2708

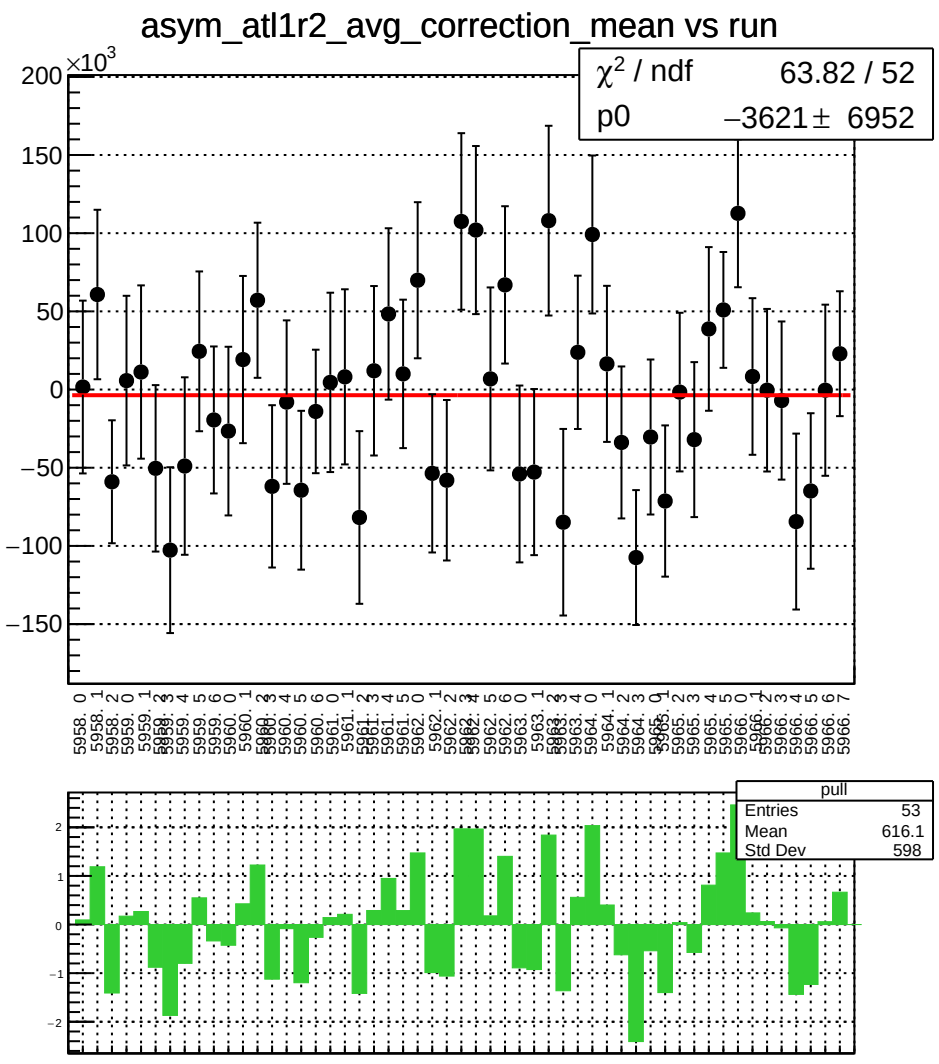

pull1D
Entries 53
Mean 0.001594
Std Dev 1.178

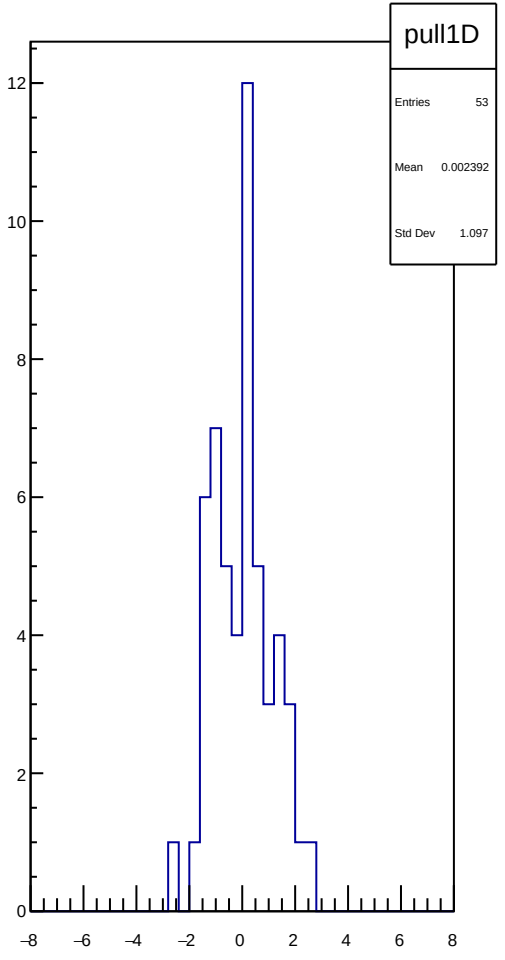

asym_at2_dd_rms vs run
χ² / ndf 1378 / 52
p0 2619 ± 2.571
2900
2800
2700
2600
2500
2400
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

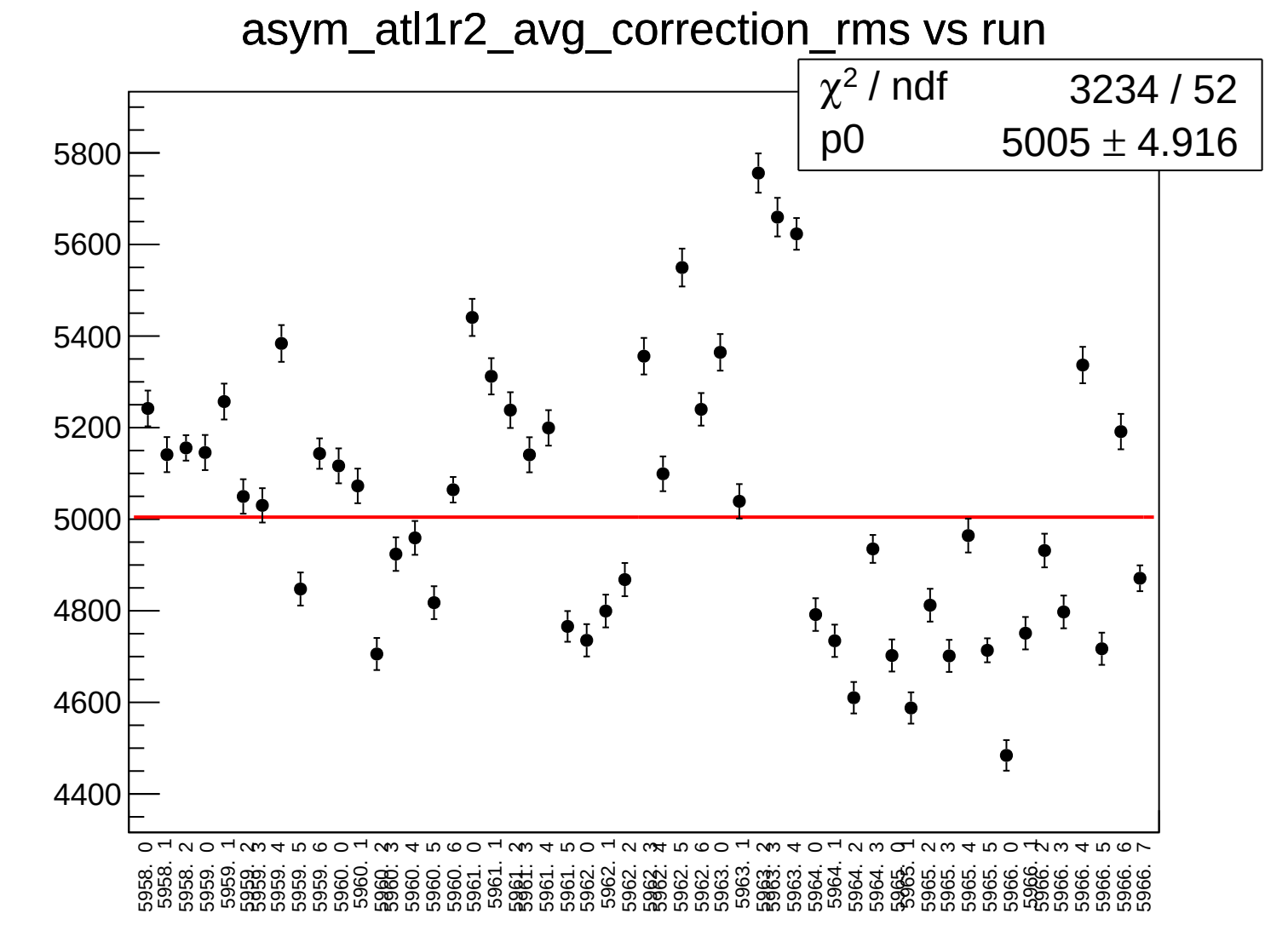

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 36.85 / 52
p0 288.1 ± 2448
pull
Entries 53
Mean 428.1
Std Dev 398.6

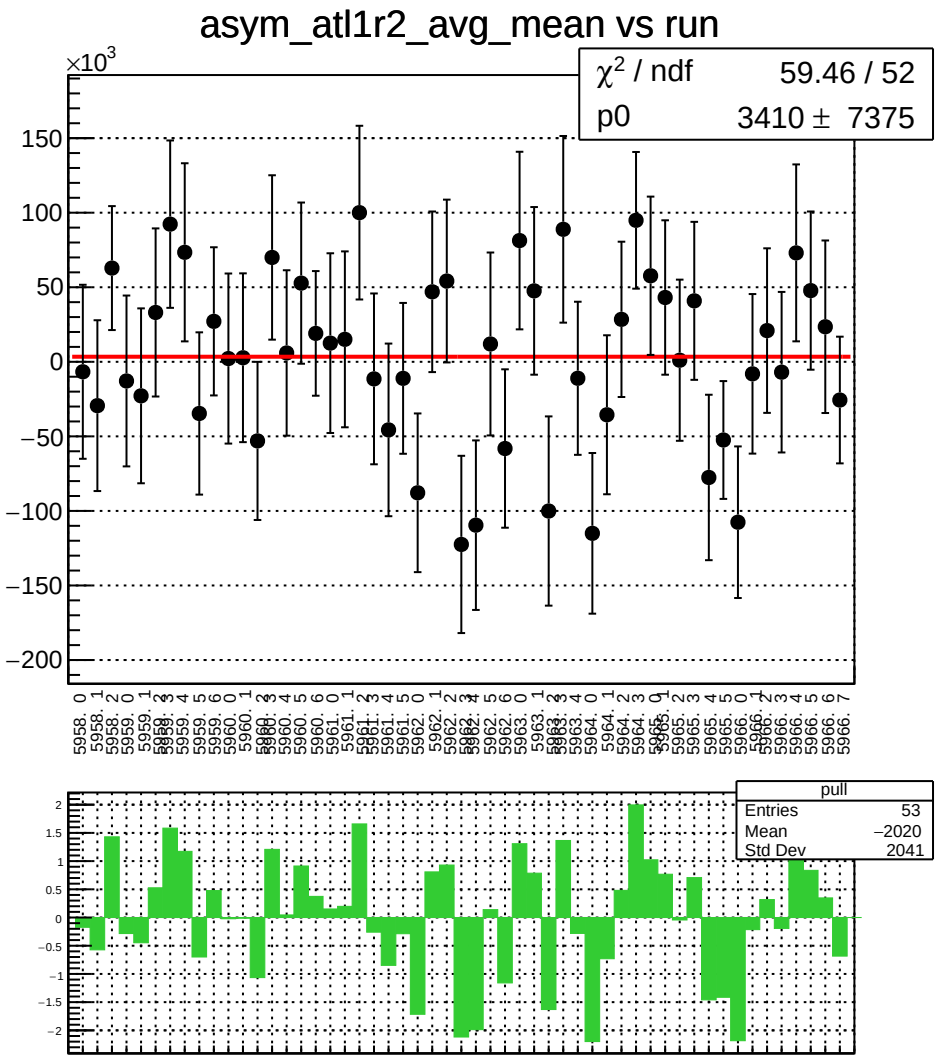

pull1D
Entries 53
Mean −0.003707
Std Dev 0.8339

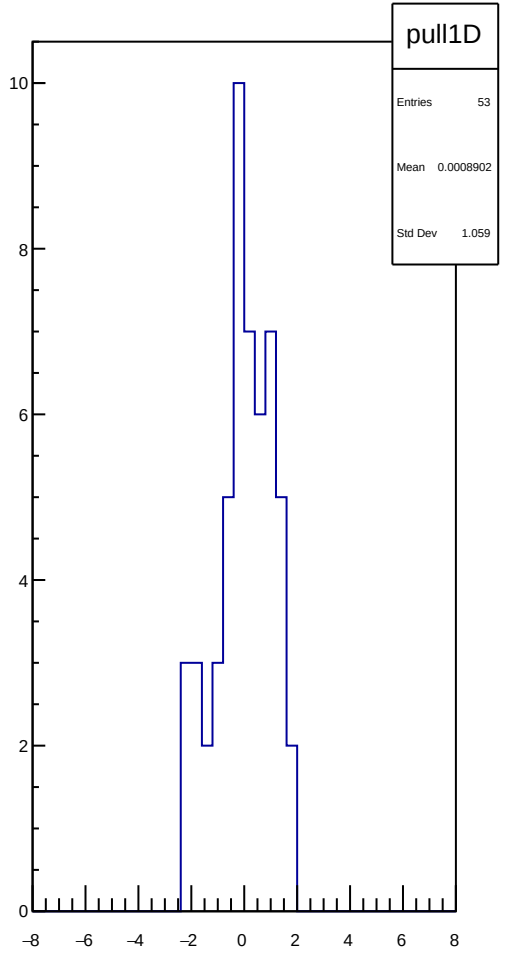

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 70.53 / 52
p0 1765 ± 1.731
1840
1820
1800
1780
1760
1740

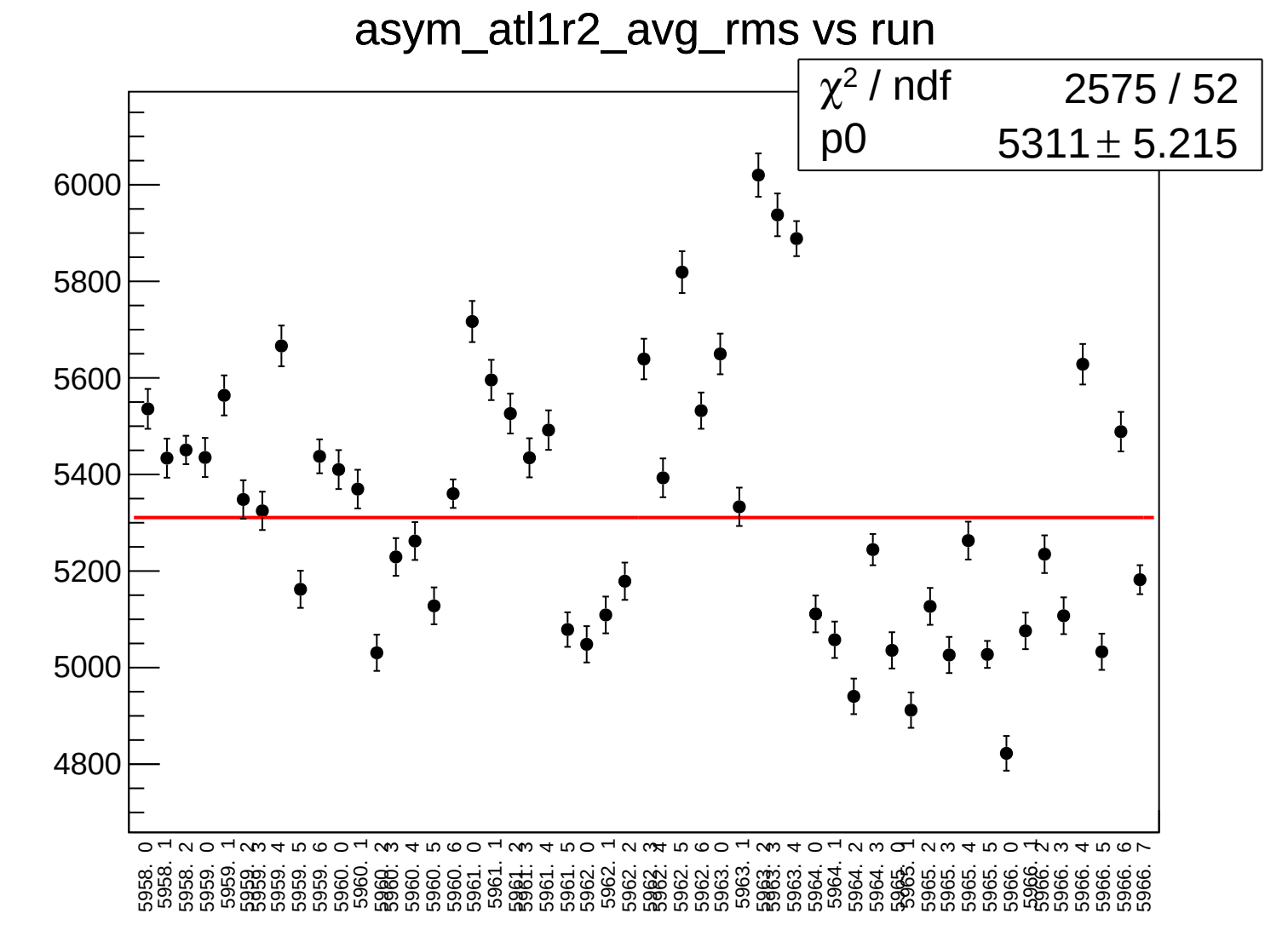

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 63.82 / 52
p0 −3621 ± 6952
pull
Entries 53
Mean 616.1
Std Dev 598

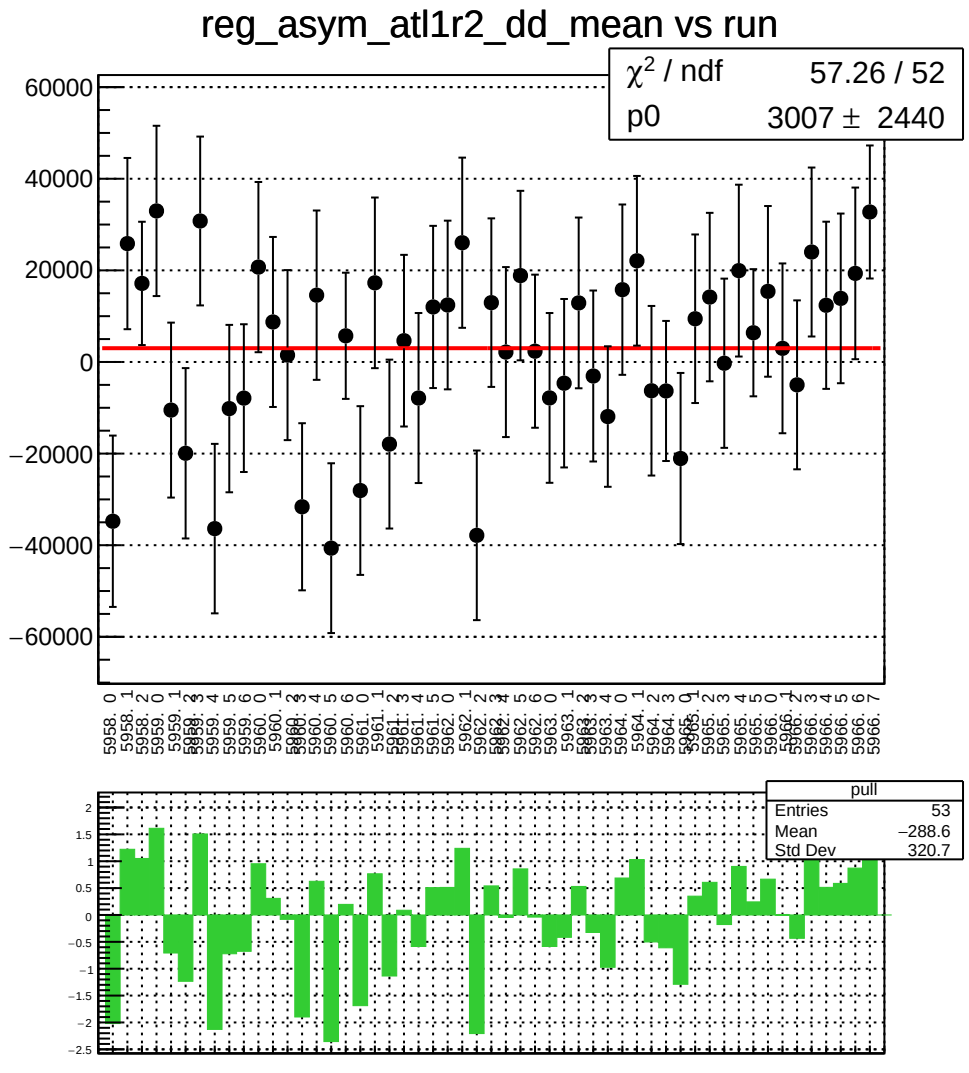

pull1D
Entries 53
Mean 0.002392
Std Dev 1.097

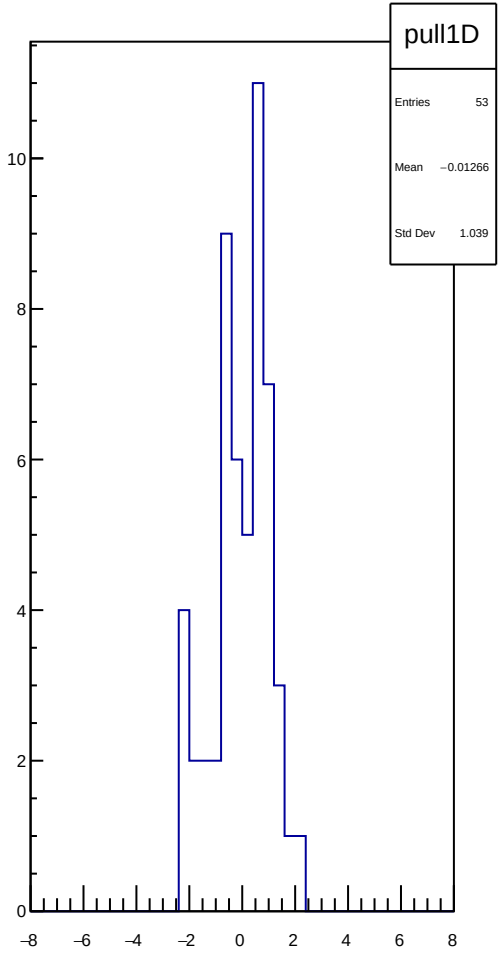

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 3234 / 52
p0 5005 ± 4.916
5800
5600
5400
5200
5000
4800
4600
4400
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

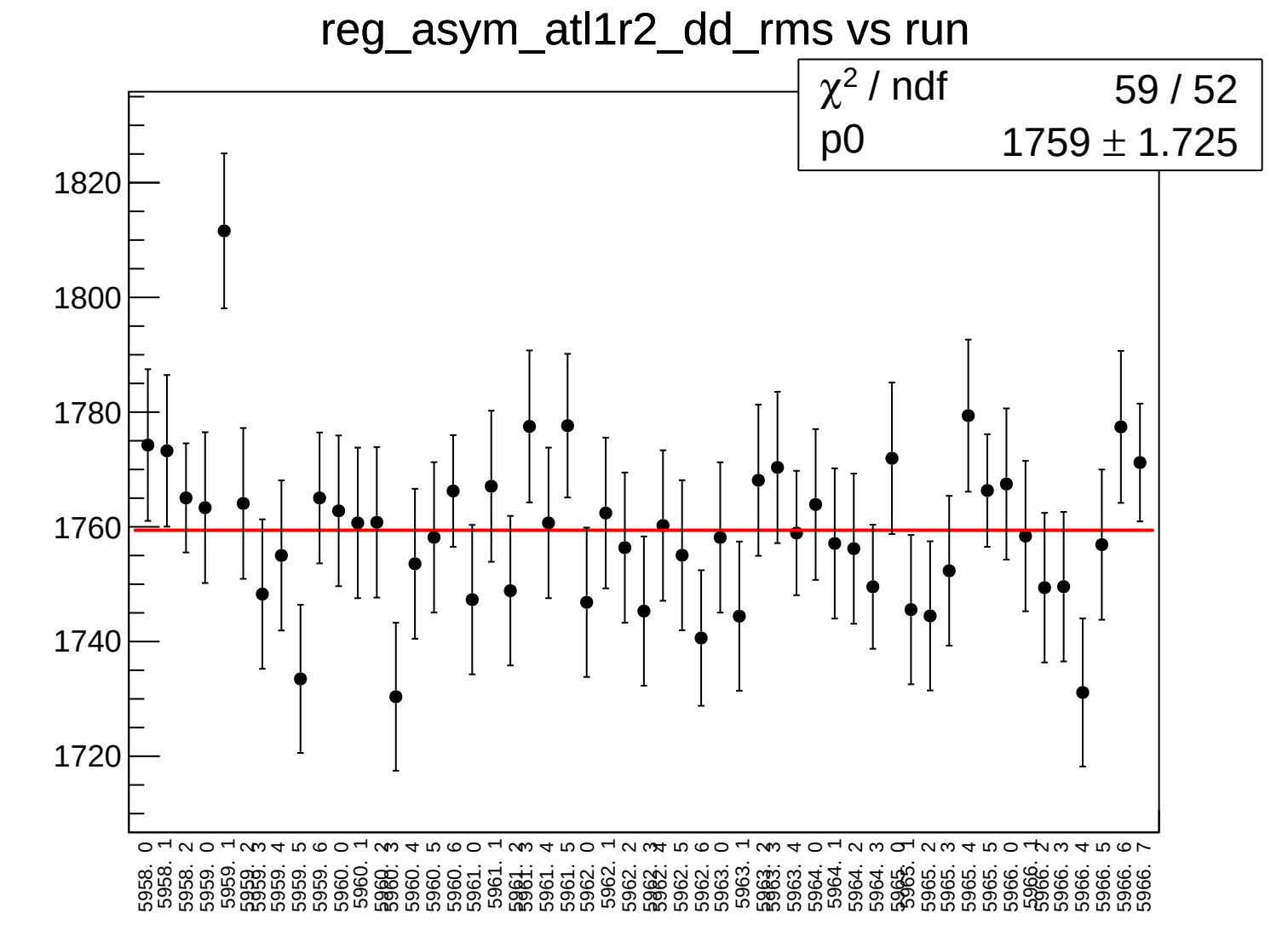

asym_atl1r2_avg_mean vs run
χ² / ndf 59.46 / 52
p0 3410 ± 7375
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 53
Mean −2020
Std Dev 2041
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

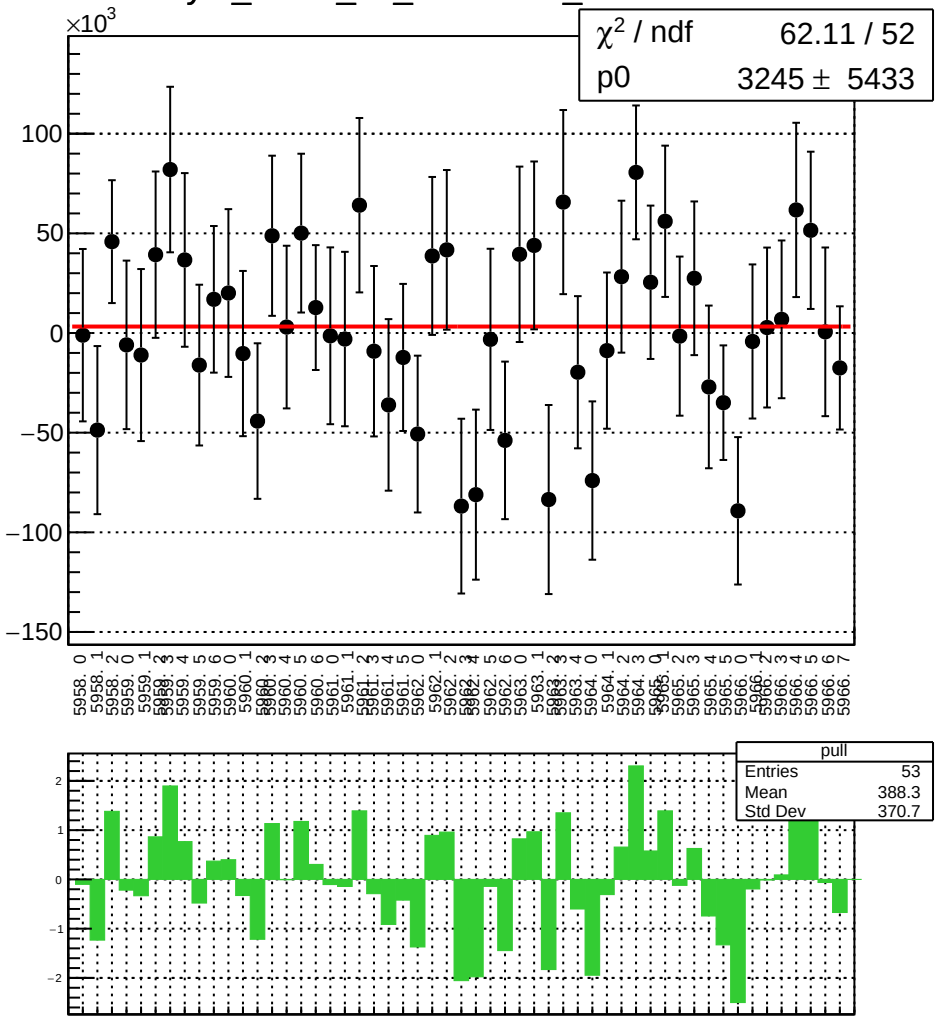

pull1D
Entries 53
Mean 0.0008902
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

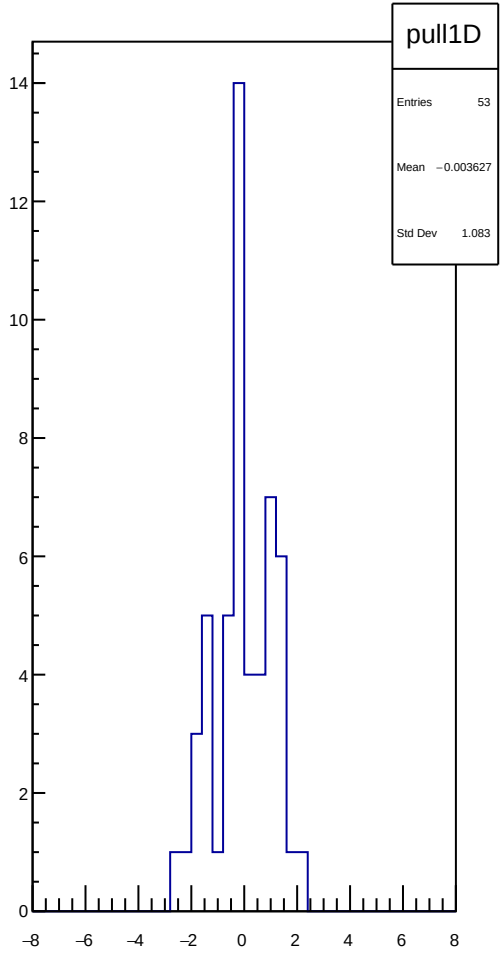

asym_atl1r2_avg_rms vs run
χ² / ndf 2575 / 52
p0 5311 ± 5.215
6000
5800
5600
5400
5200
5000
4800
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

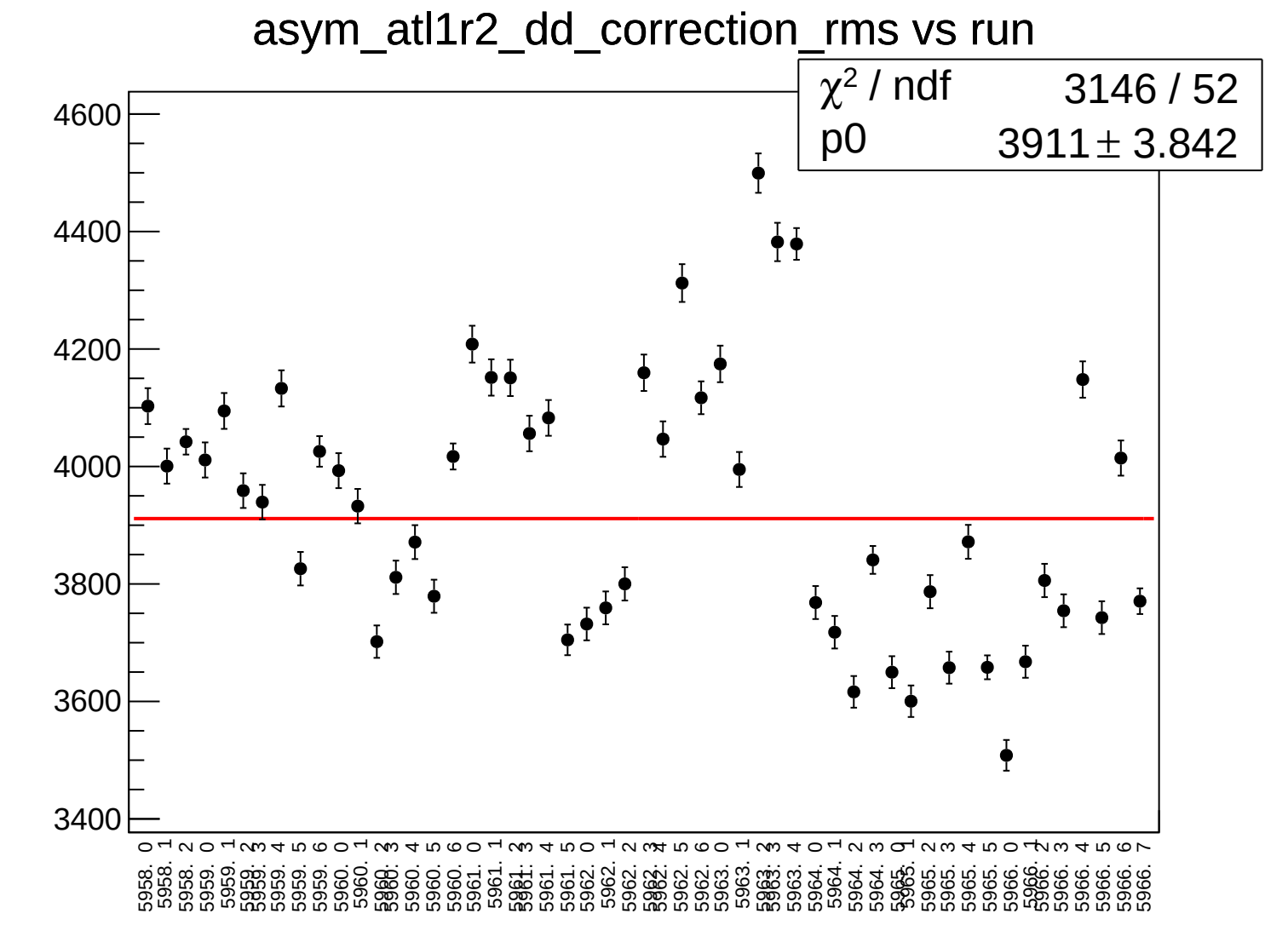

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 57.26 / 52
p0 3007 ± 2440
pull
Entries 53
Mean −288.6
Std Dev 320.7

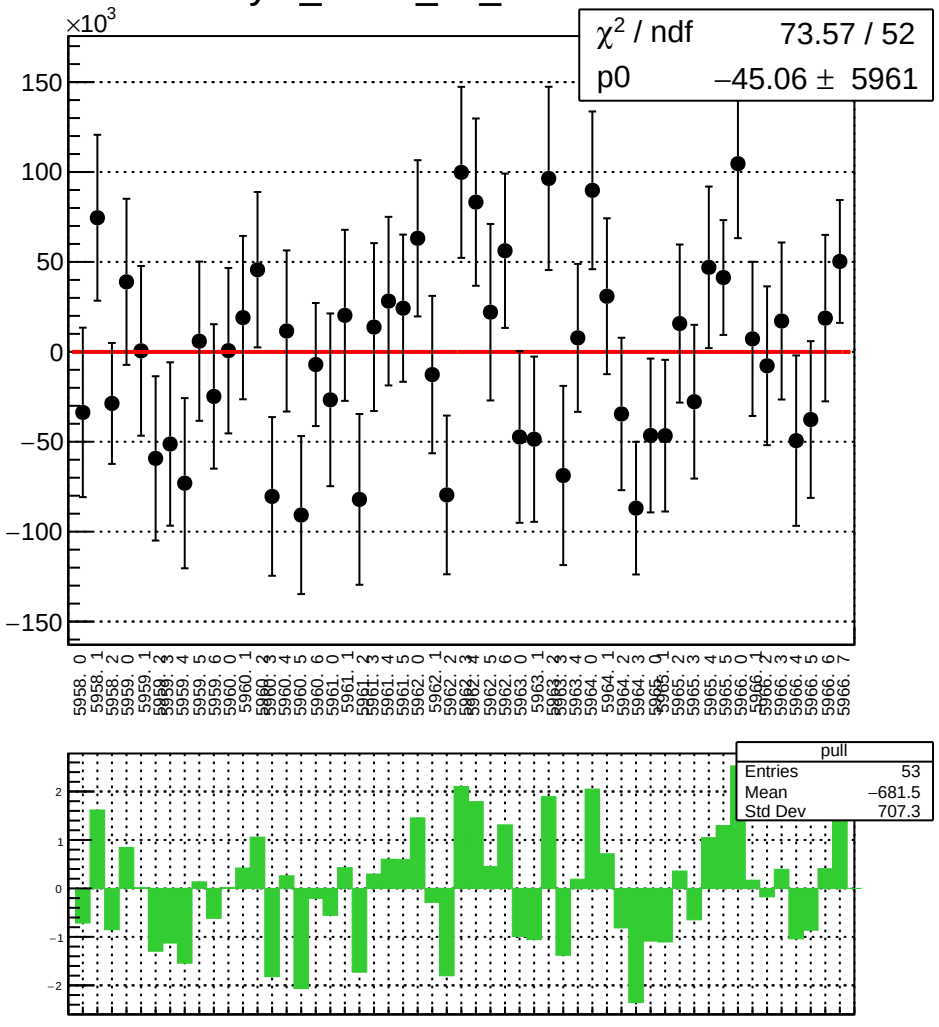

pull1D
Entries 53
Mean −0.01266
Std Dev 1.039

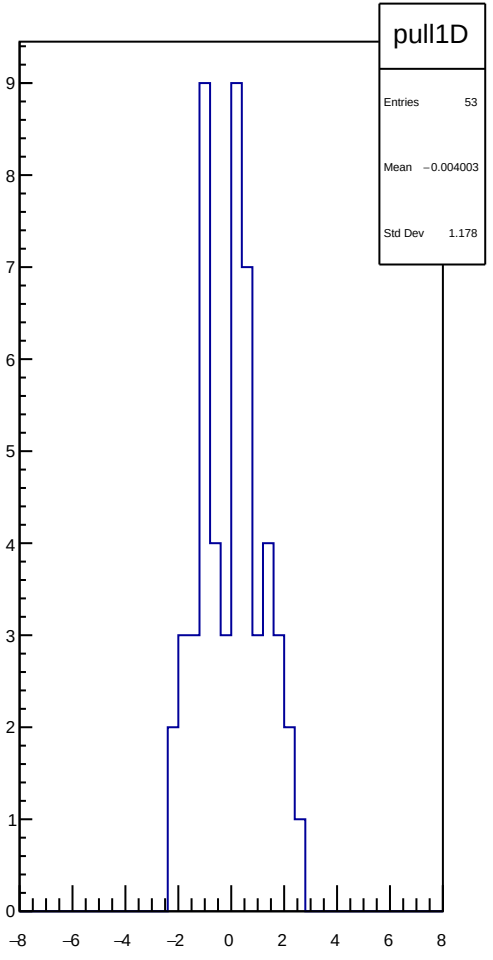

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 59 / 52
p0 1759 ± 1.725
1820
1800
1780
1760
1740
1720

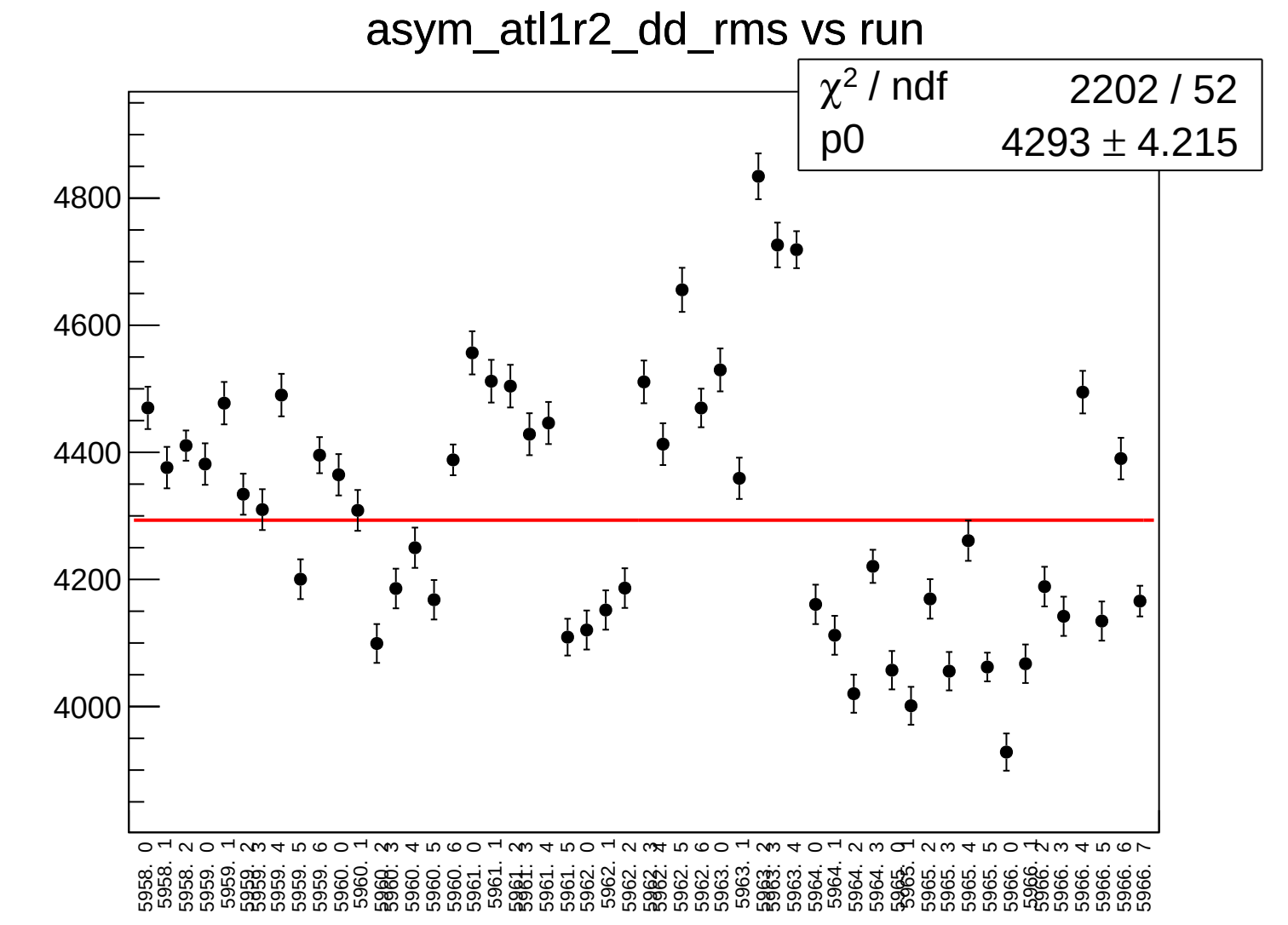

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 62.11 / 52
p0 3245 ± 5433
100
50
0
−50
−100
−150
pull
Entries 53
Mean 388.3
Std Dev 370.7
2
1
0
−1
−2

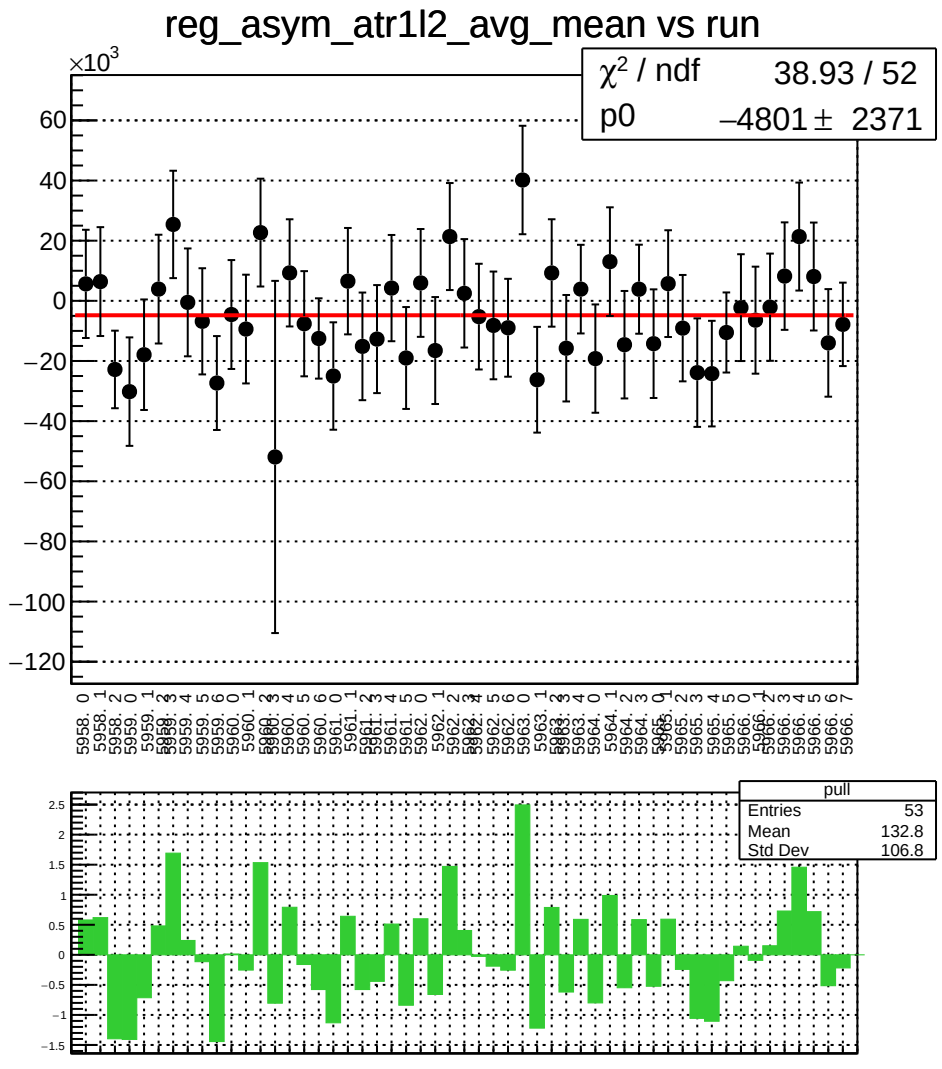

pull1D
Entries 53
Mean −0.003627
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

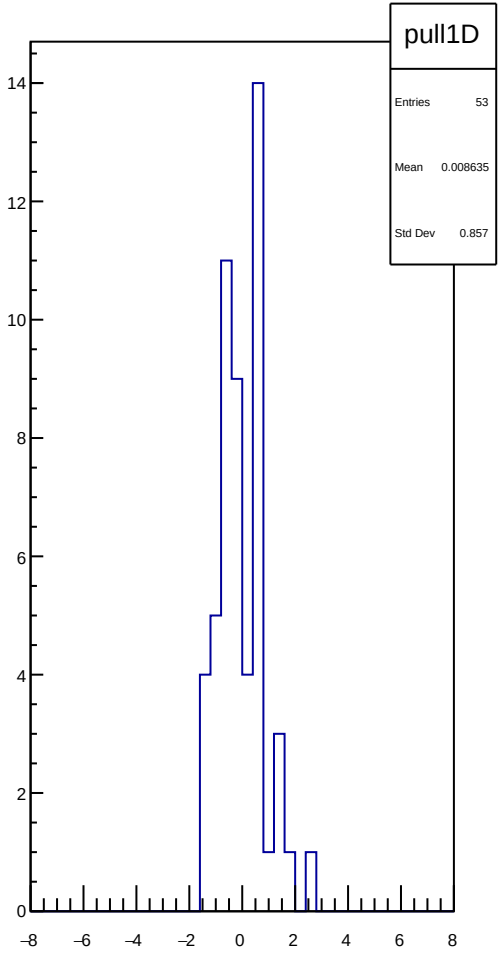

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3146 / 52
p0 3911 ± 3.842
4600
4400
4200
4000
3800
3600
3400

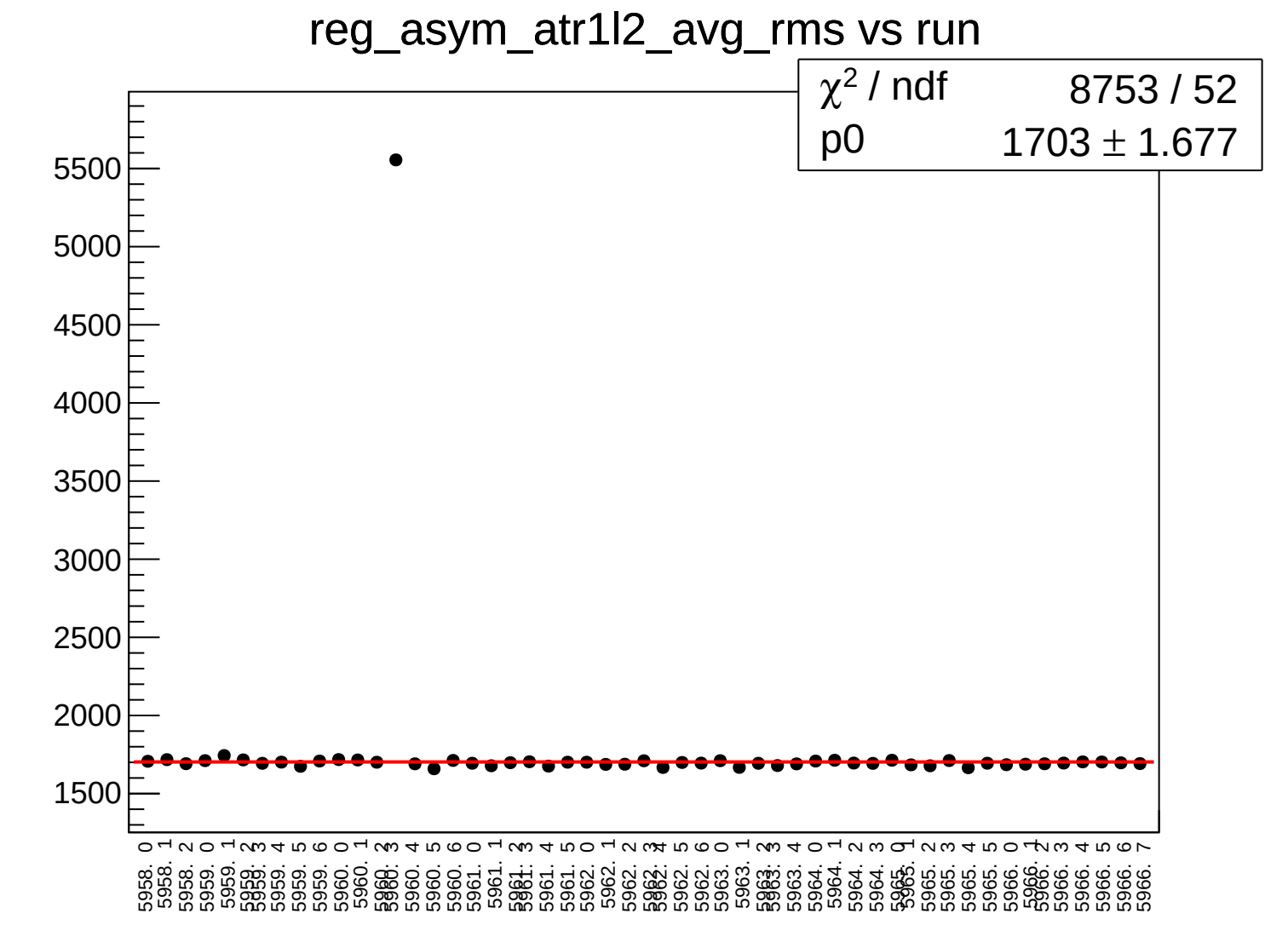

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 73.57 / 52
p0 −45.06 ± 5961
150
100
50
0
−50
−100
−150
pull
Entries 53
Mean −681.5
Std Dev 707.3
2
1
0
−1
−2

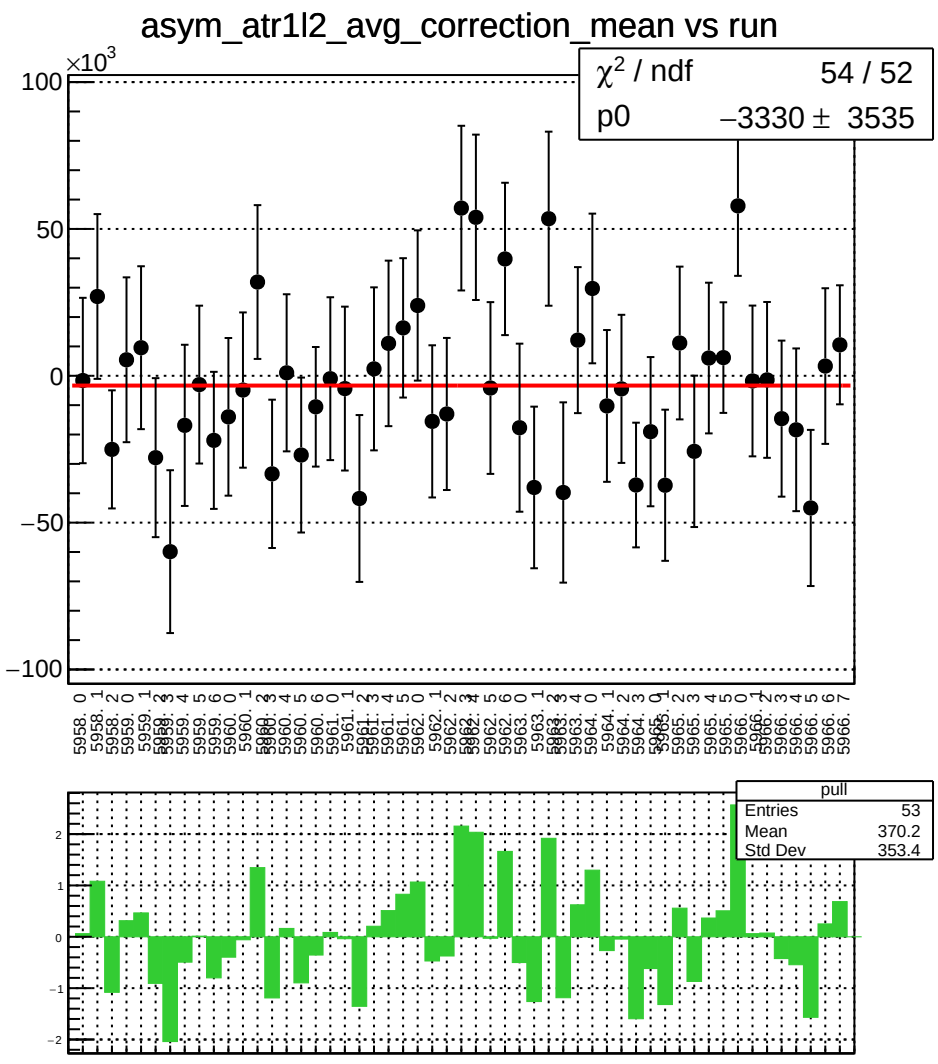

pull1D
Entries 53
Mean −0.004003
Std Dev 1.178
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

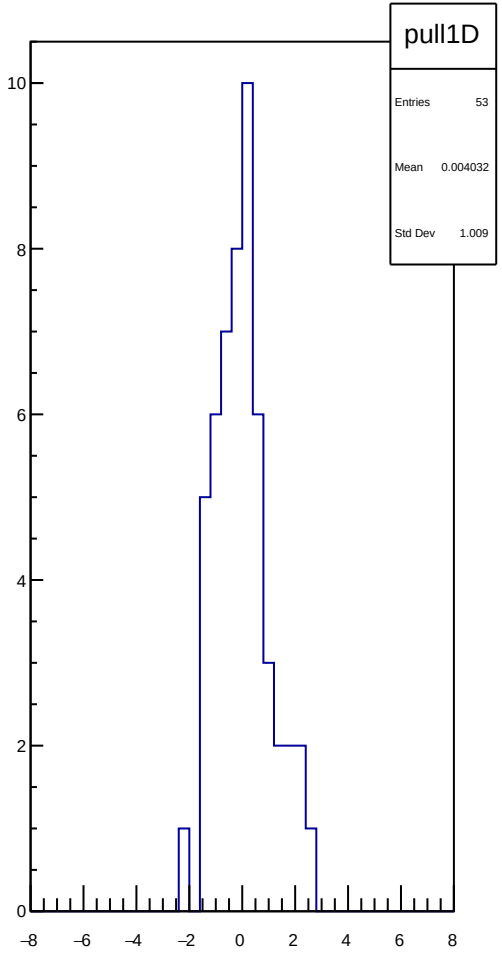

asym_atl1r2_dd_rms vs run
χ² / ndf 2202 / 52
p0 4293 ± 4.215
4800
4600
4400
4200
4000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

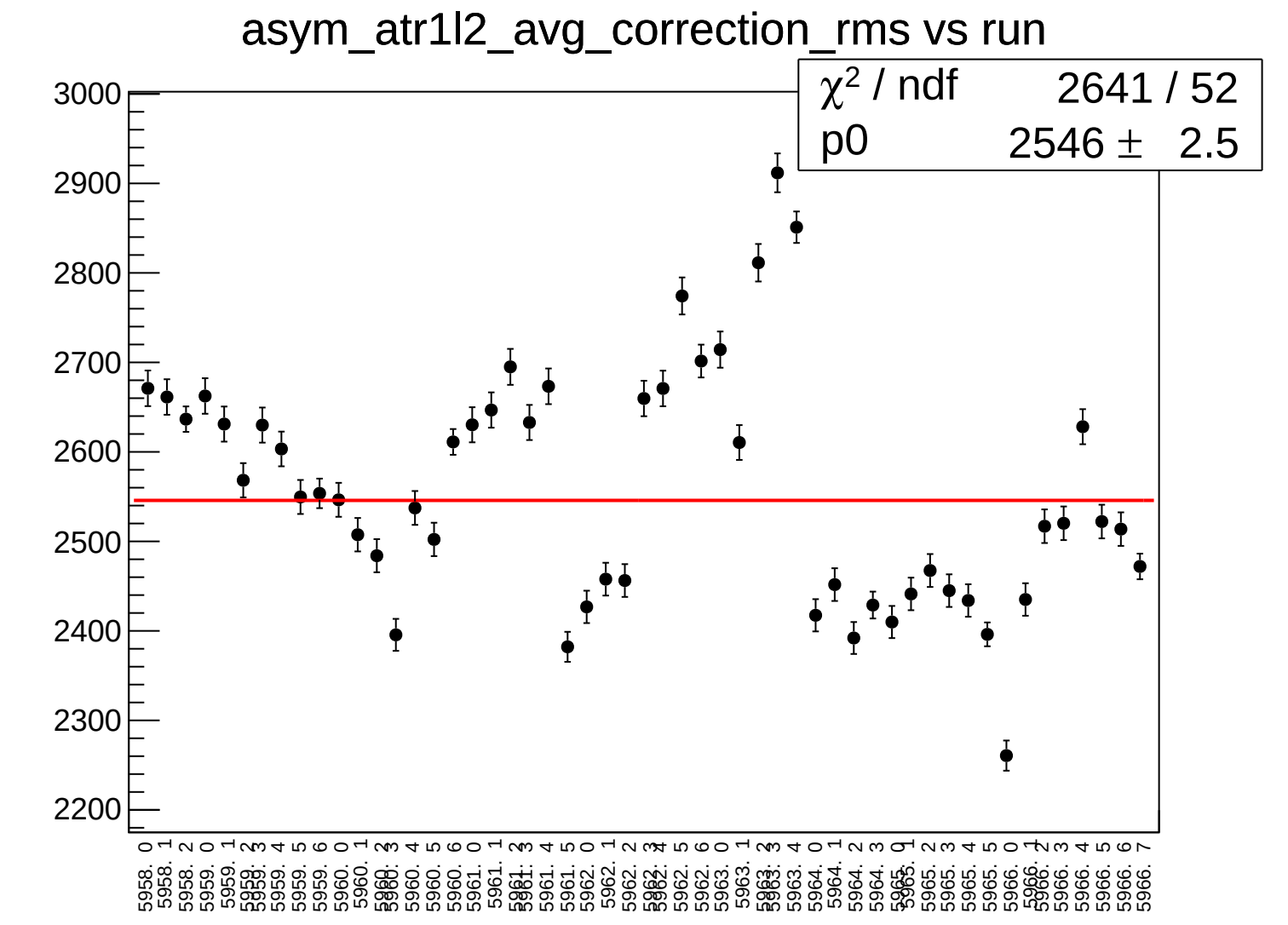

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 38.93 / 52
p0 −4801 ± 2371
×10³
pull
Entries 53
Mean 132.8
Std Dev 106.8

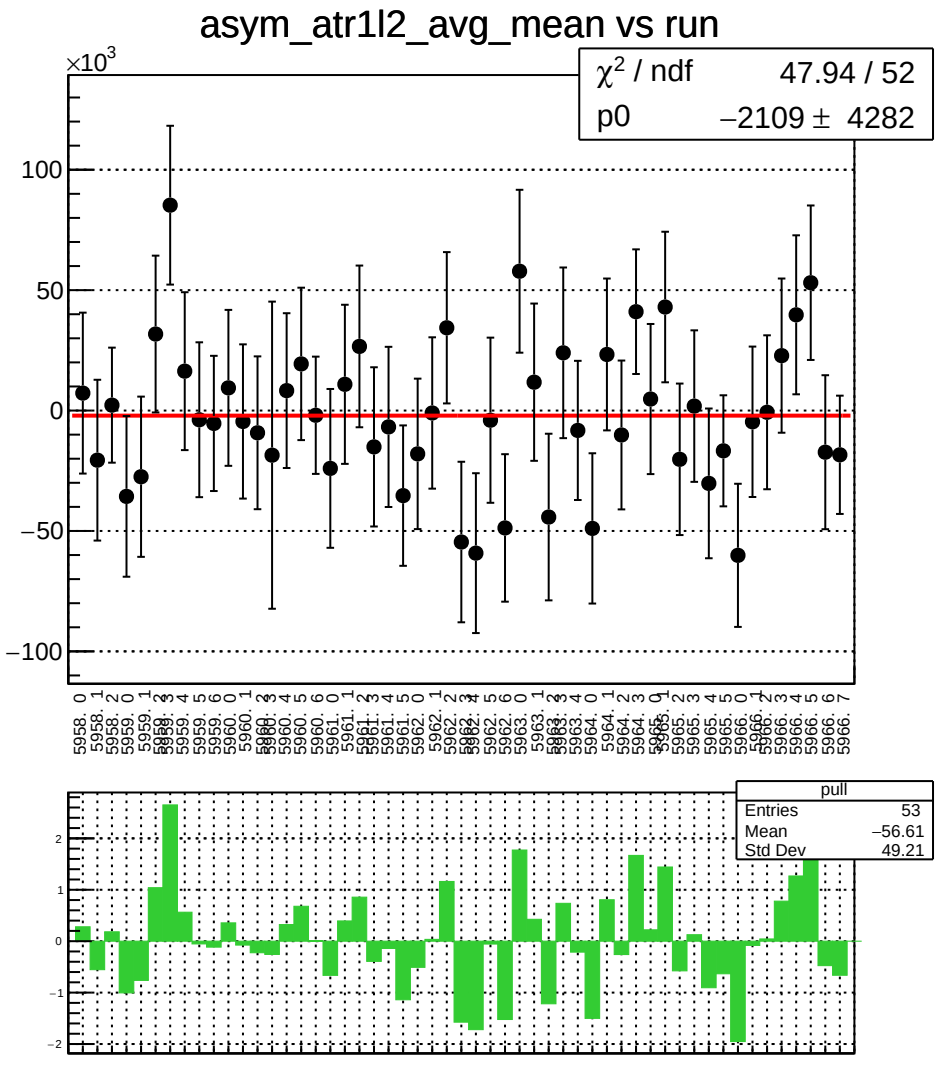

pull1D
Entries 53
Mean 0.008635
Std Dev 0.857

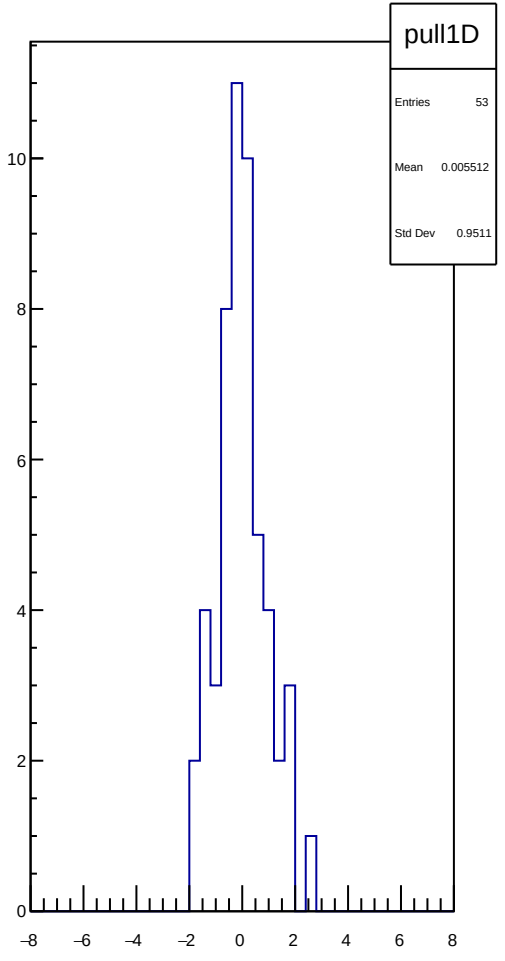

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 8753 / 52
p0 1703 ± 1.677
5500
5000
4500
4000
3500
3000
2500
2000
1500

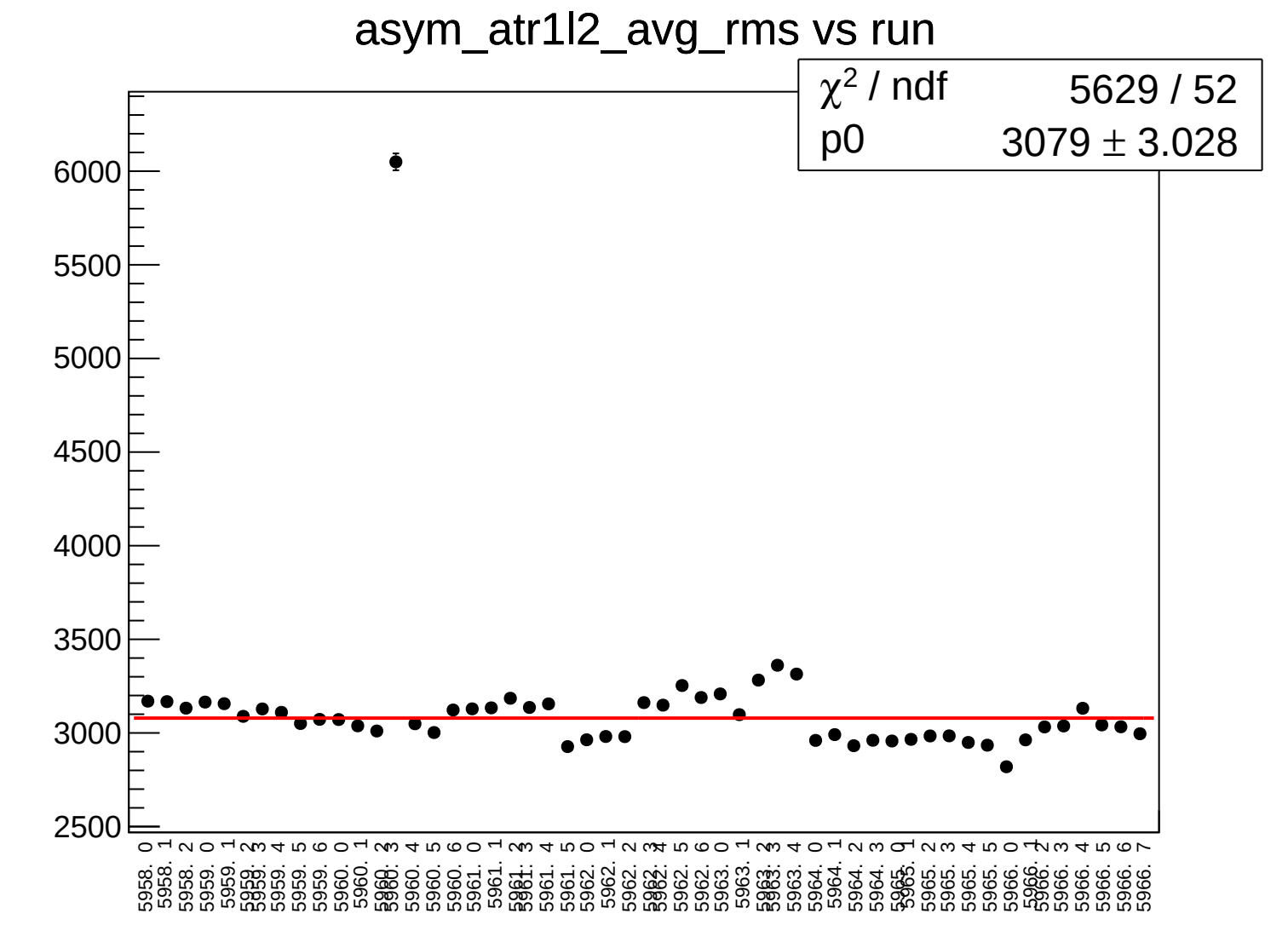

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 54 / 52
p0 −3330 ± 3535
pull
Entries 53
Mean 370.2
Std Dev 353.4

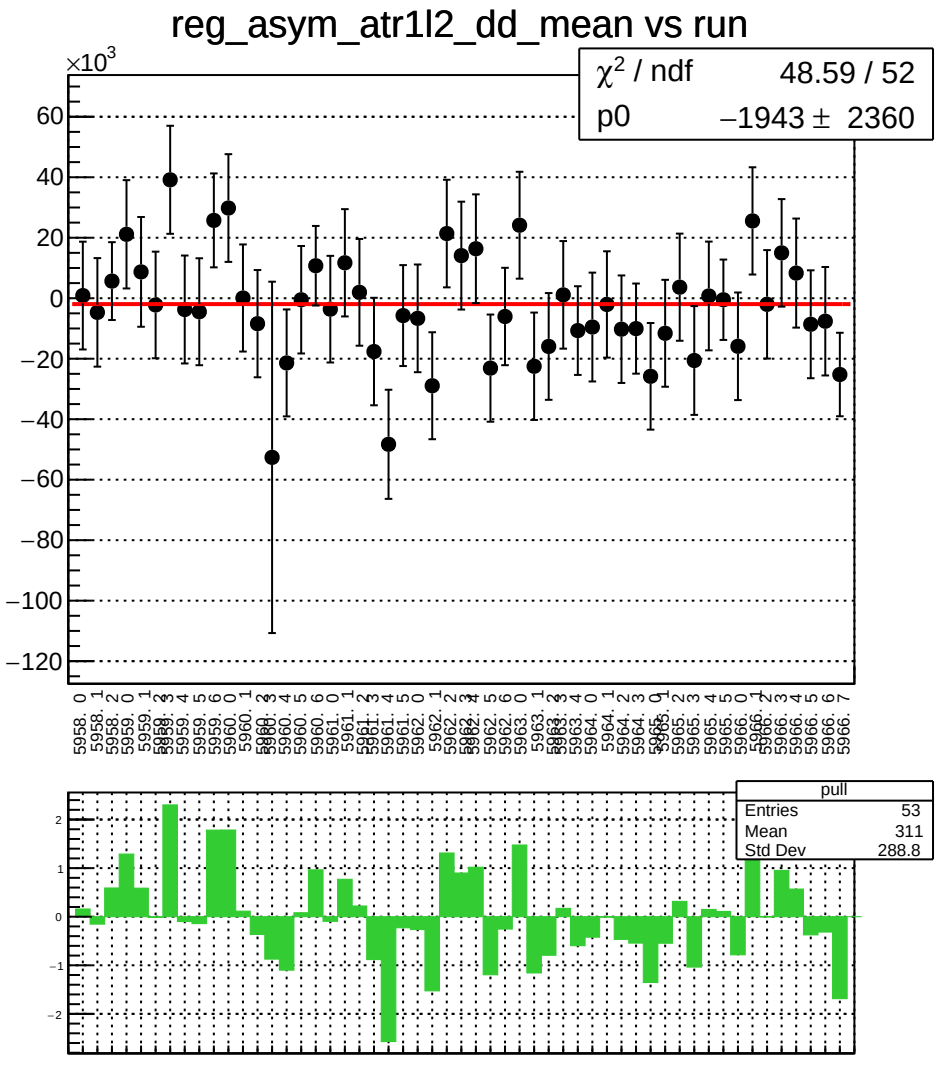

pull1D
Entries 53
Mean 0.004032
Std Dev 1.009

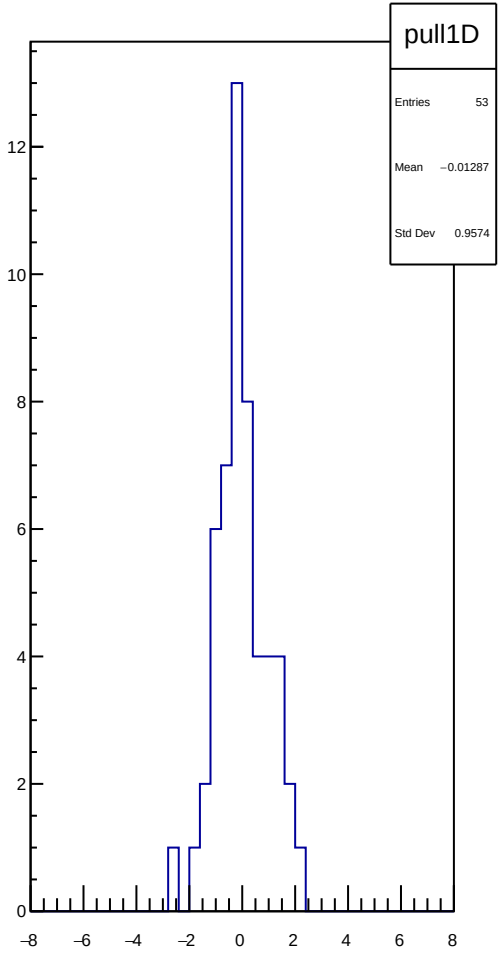

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2641 / 52
p0 2546 ± 2.5
3000
2900
2800
2700
2600
2500
2400
2300
2200

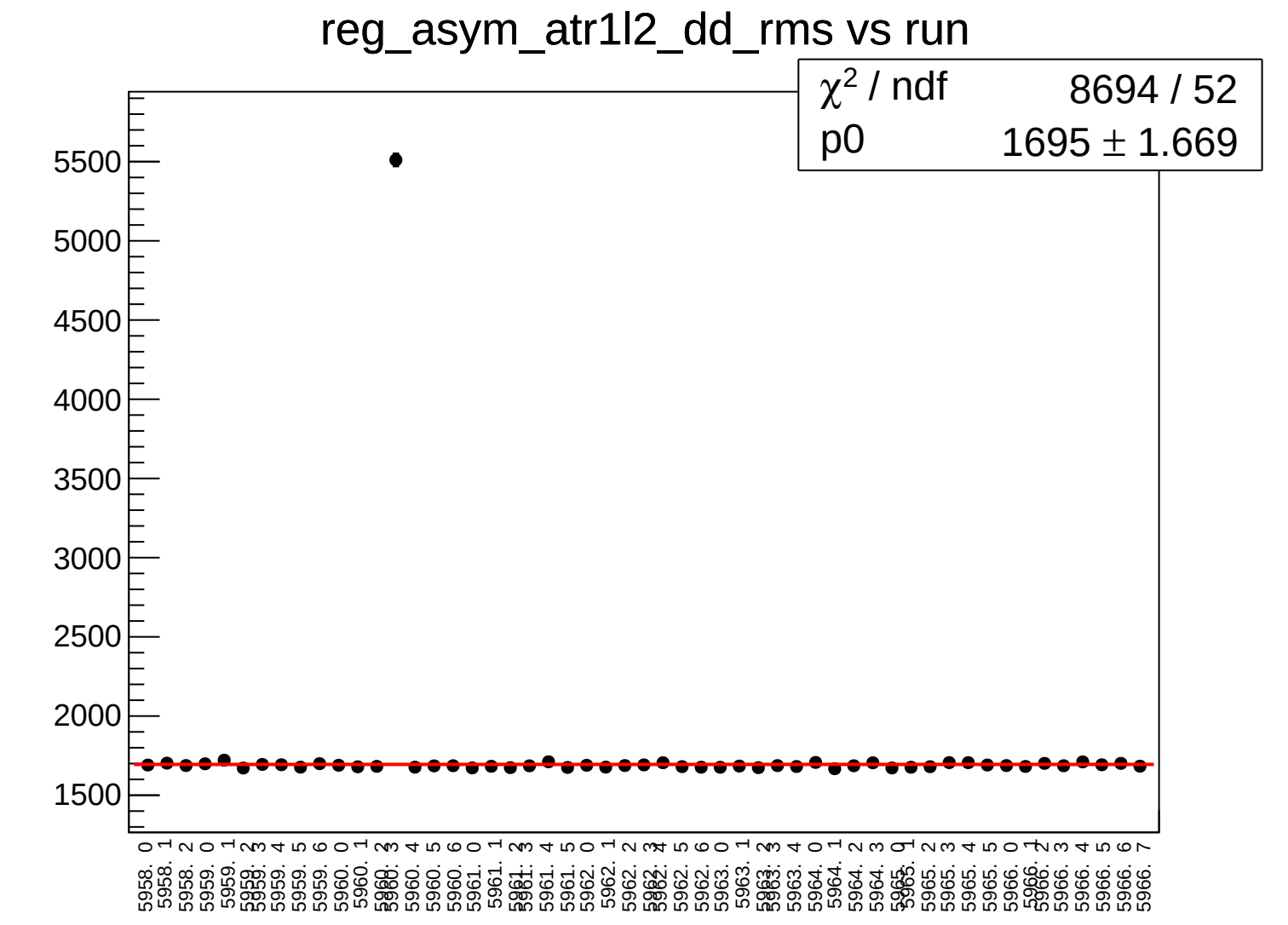

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 47.94 / 52
p0 −2109 ± 4282
100
50
0
−50
−100
pull
Entries 53
Mean −56.61
Std Dev 49.21
2
1
0
−1
−2

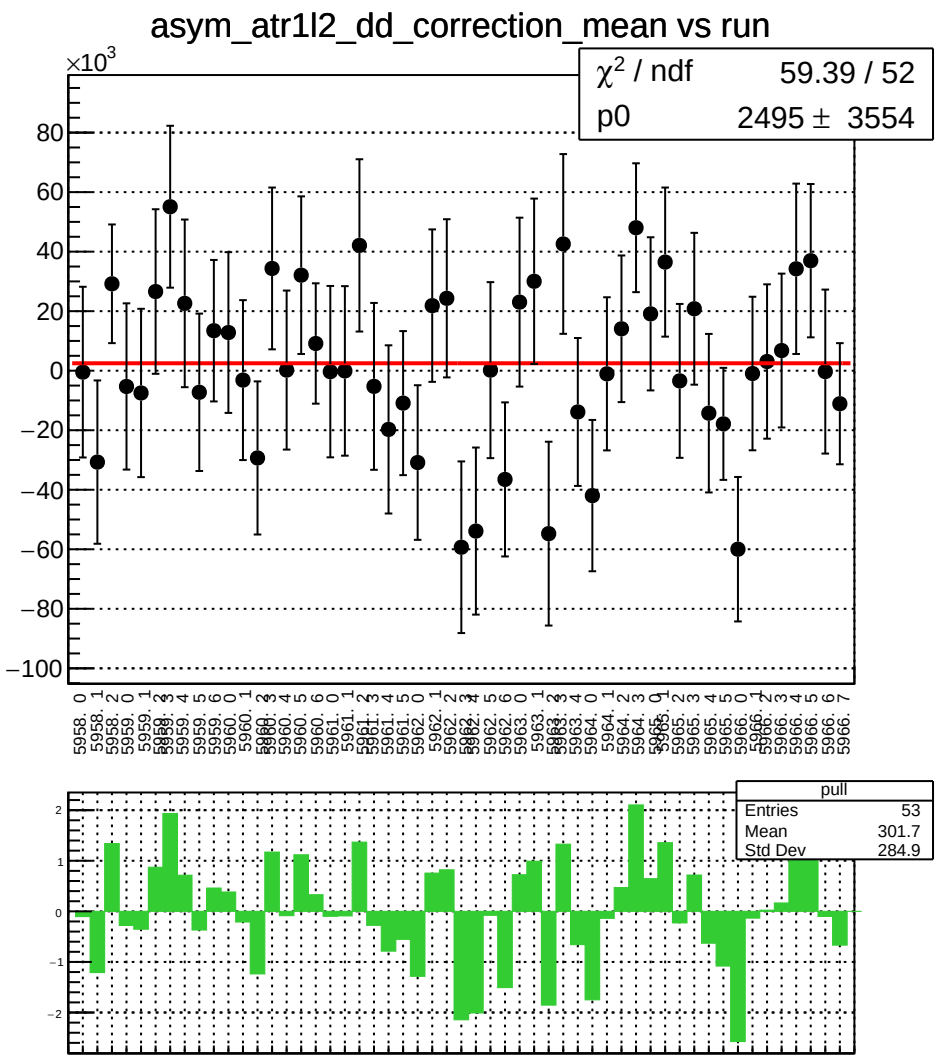

pull1D
Entries 53
Mean 0.005512
Std Dev 0.9511
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

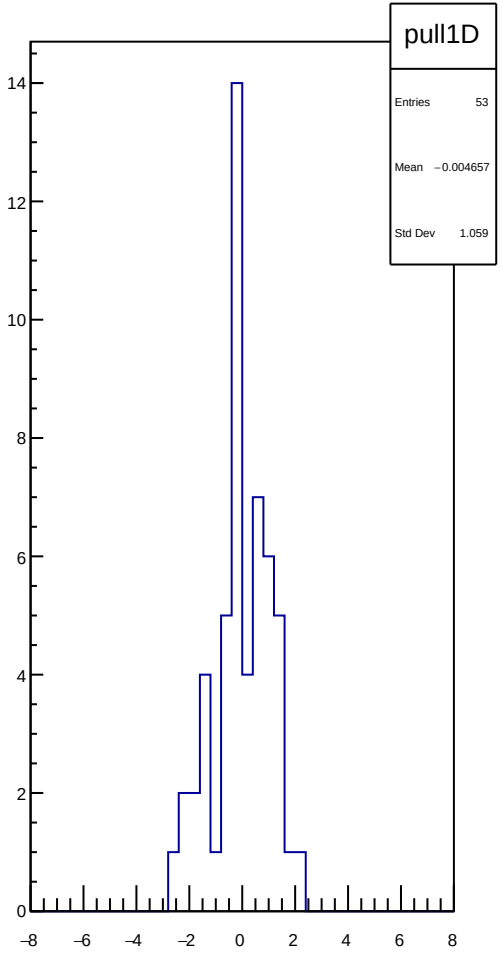

asym_atr1l2_avg_rms vs run
χ² / ndf 5629 / 52
p0 3079 ± 3.028
6000
5500
5000
4500
4000
3500
3000
2500

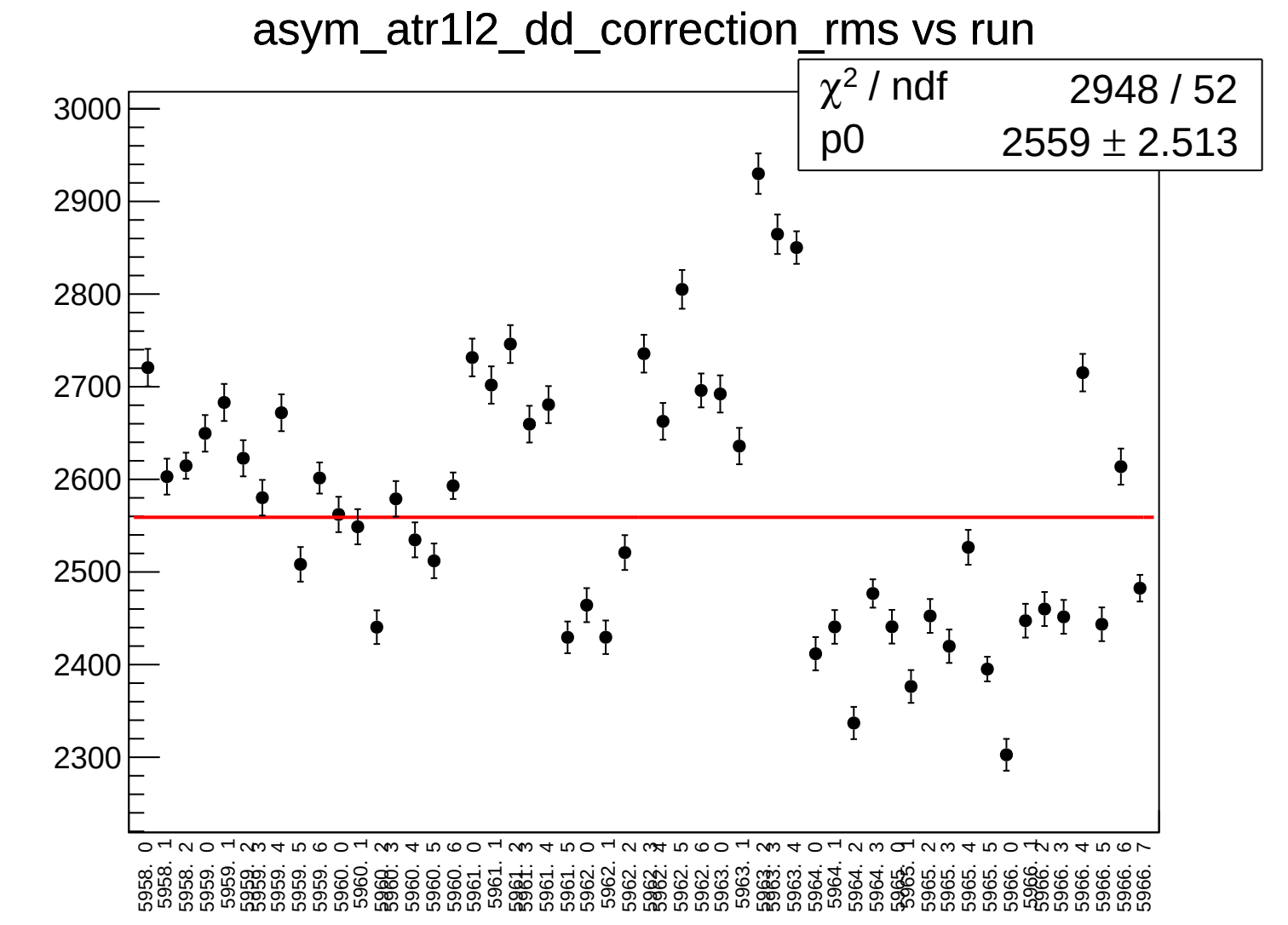

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 48.59 / 52
p0 −1943 ± 2360
pull
Entries 53
Mean 311
Std Dev 288.8

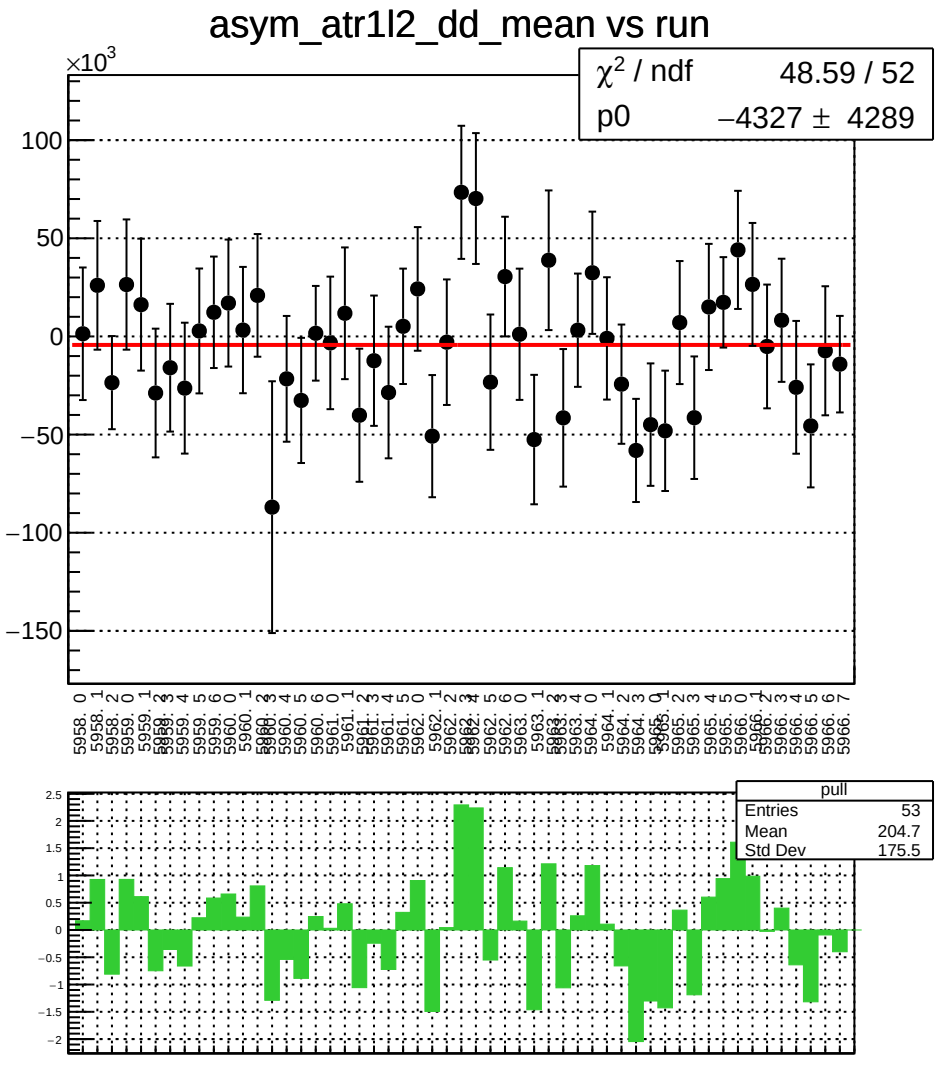

pull1D
Entries 53
Mean −0.01287
Std Dev 0.9574

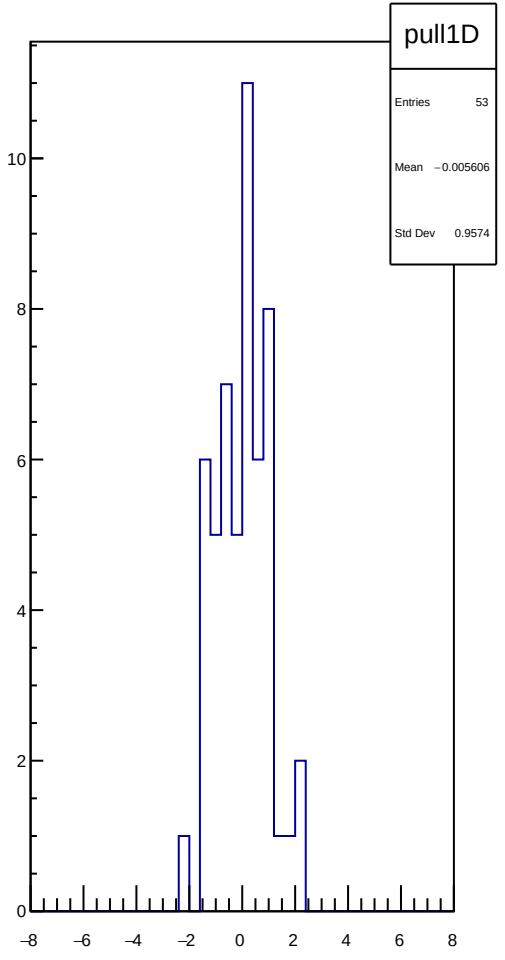

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 8694 / 52
p0 1695 ± 1.669
5500
5000
4500
4000
3500
3000
2500
2000
1500

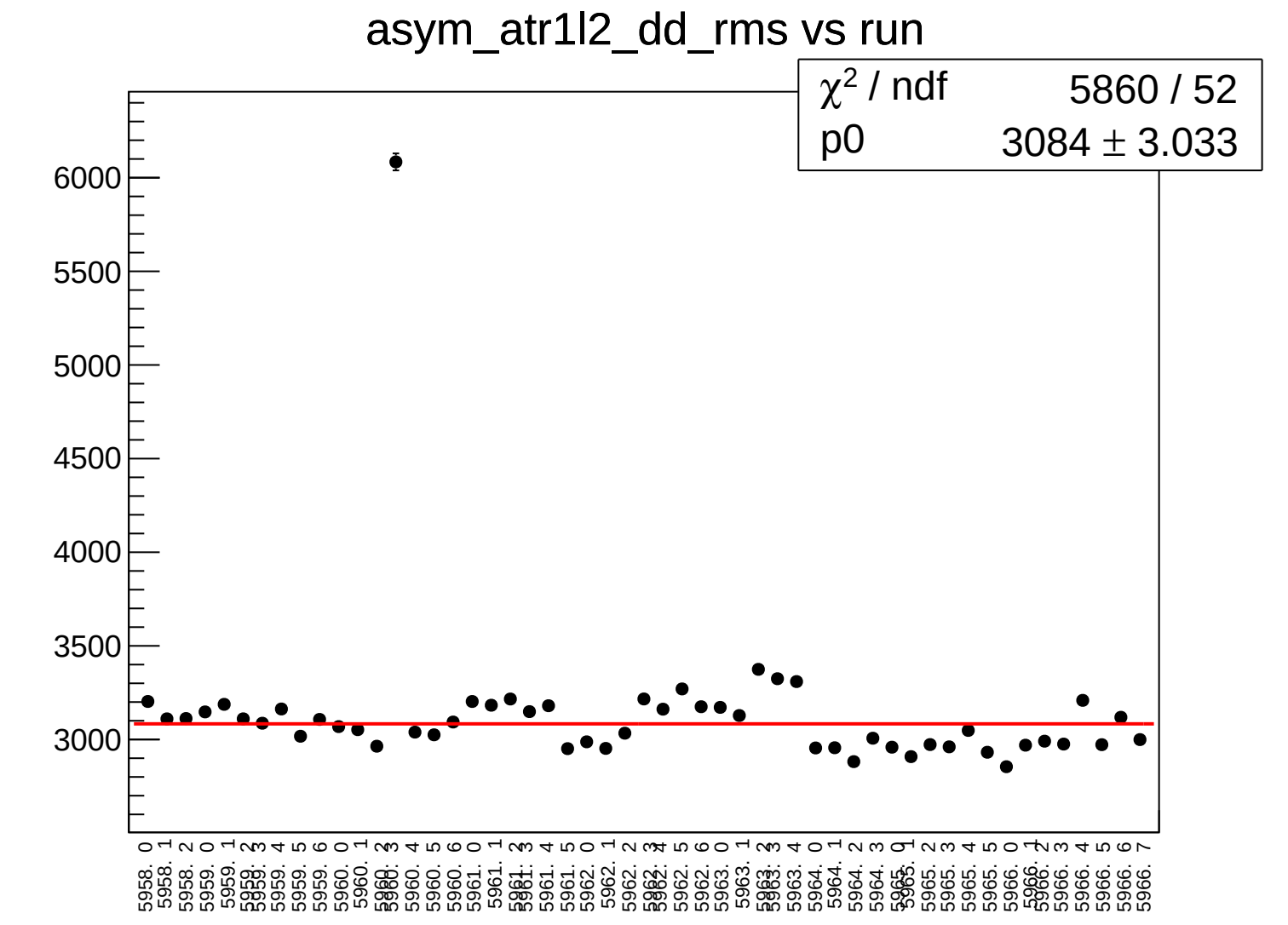

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 59.39 / 52
p0 2495 ± 3554
×10³
pull
Entries 53
Mean 301.7
Std Dev 284.9

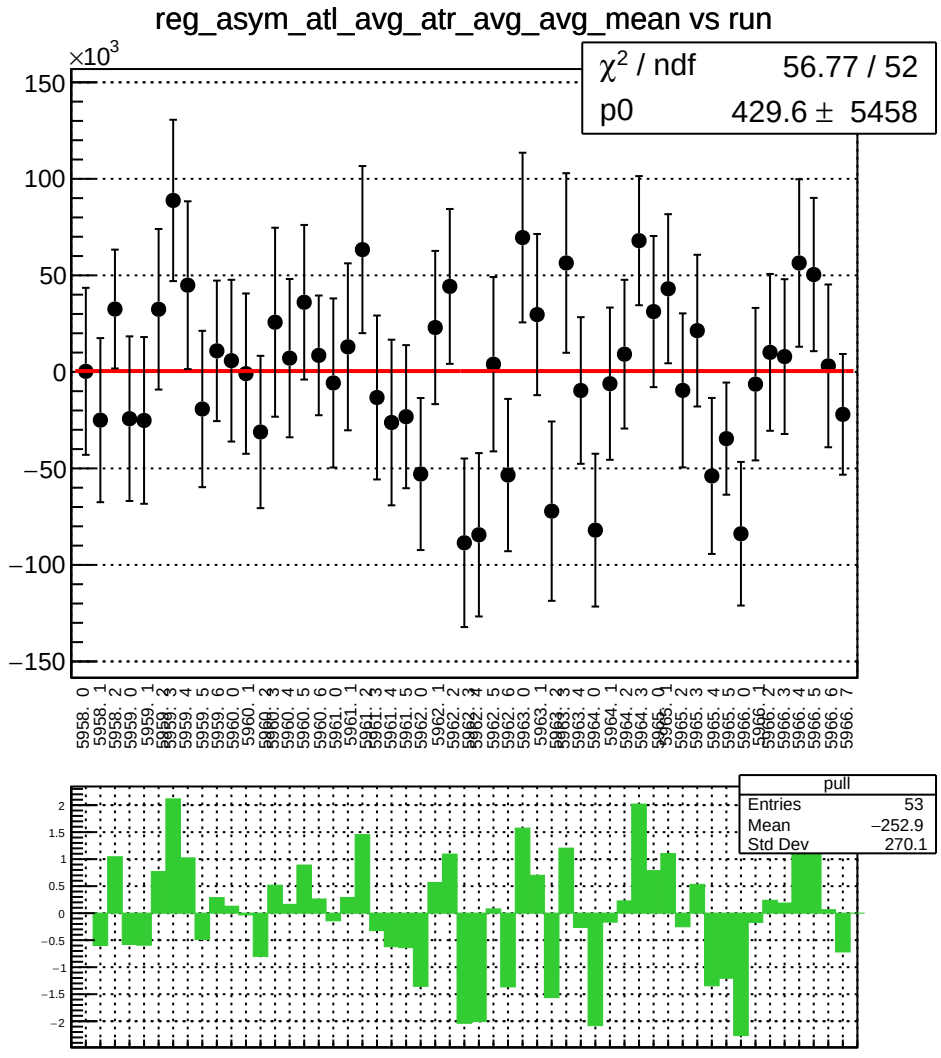

pull1D
Entries 53
Mean −0.004657
Std Dev 1.059

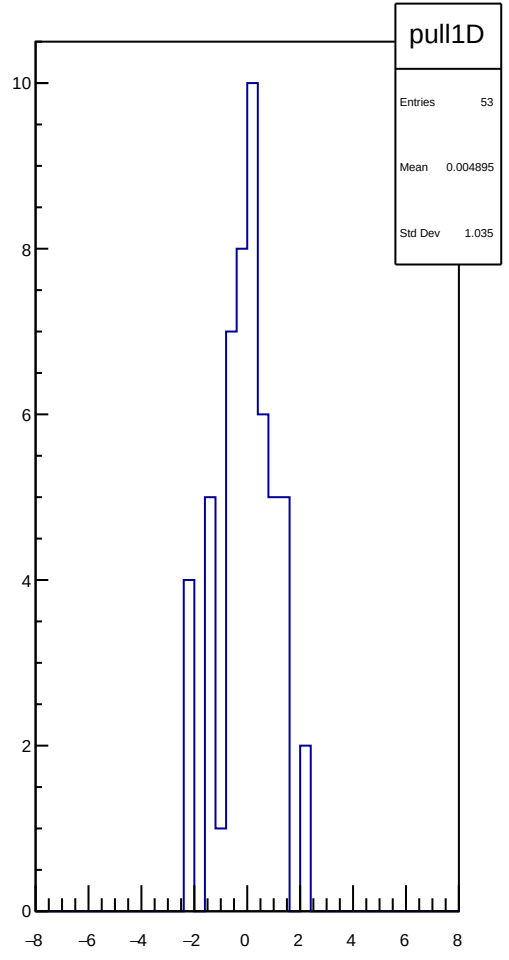

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2948 / 52
p0 2559 ± 2.513
3000
2900
2800
2700
2600
2500
2400
2300

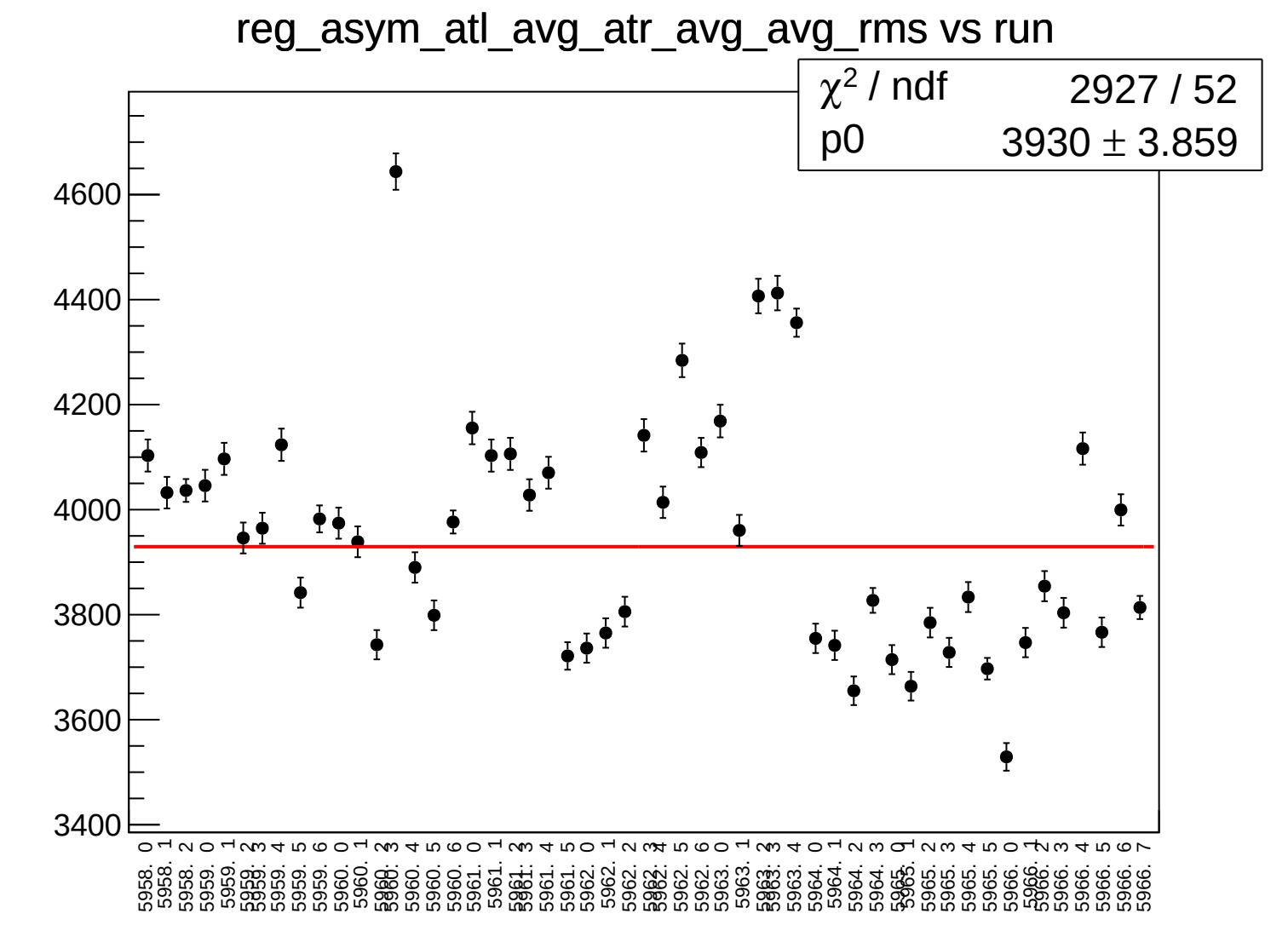

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 48.59 / 52
p0 −4327 ± 4289
100
50
0
−50
−100
−150
pull
Entries 53
Mean 204.7
Std Dev 175.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

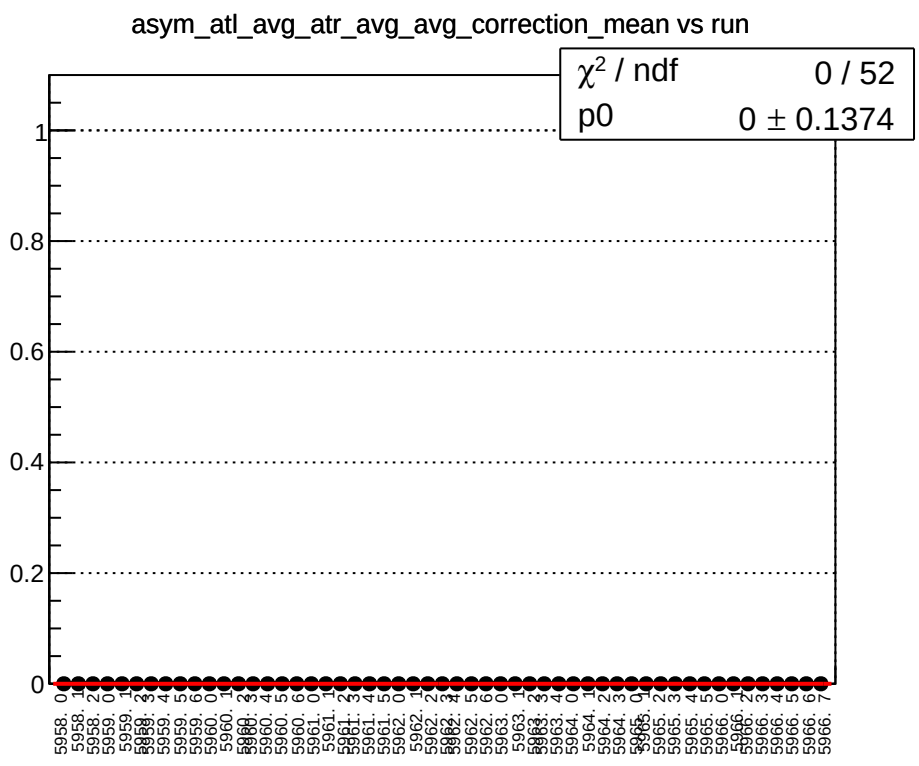

pull1D
Entries 53
Mean −0.005606
Std Dev 0.9574
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

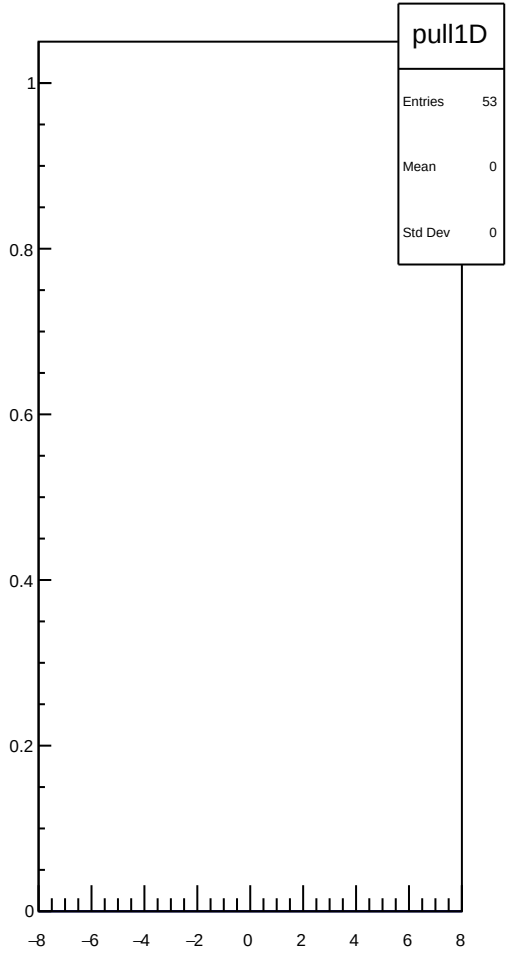

asym_atr1l2_dd_rms vs run
χ² / ndf 5860 / 52
p0 3084 ± 3.033
6000
5500
5000
4500
4000
3500
3000

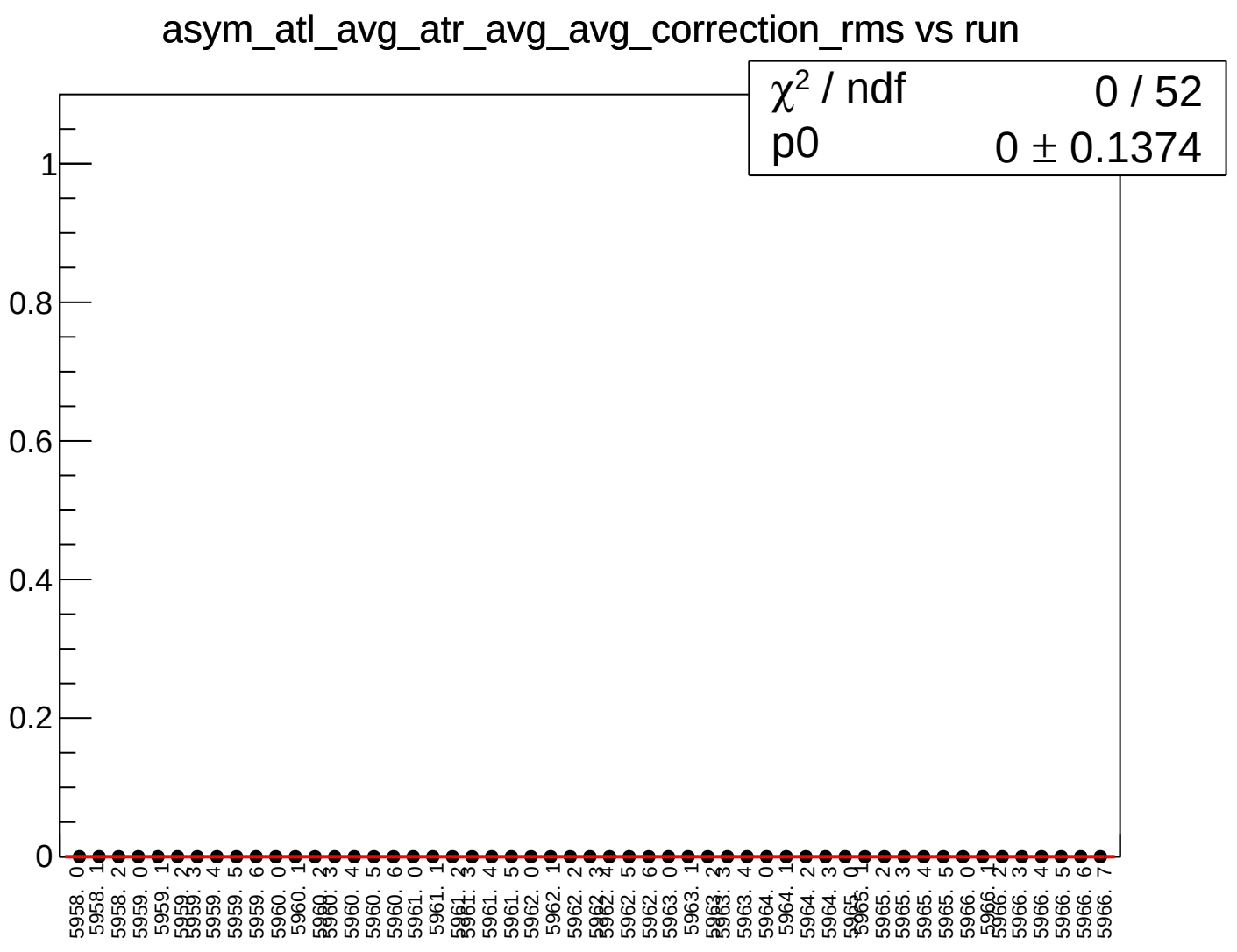

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 56.77 / 52
p0 429.6 ± 5458
150
100
50
0
−50
−100
−150
pull
Entries 53
Mean −252.9
Std Dev 270.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 53
Mean 0.004895
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2927 / 52
p0 3930 ± 3.859
4600
4400
4200
4000
3800
3600
3400


asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 52
p0 0 ± 0.1374
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 53
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 / 52
p0 0 ± 0.1374
1
0.8
0.6
0.4
0.2
0
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
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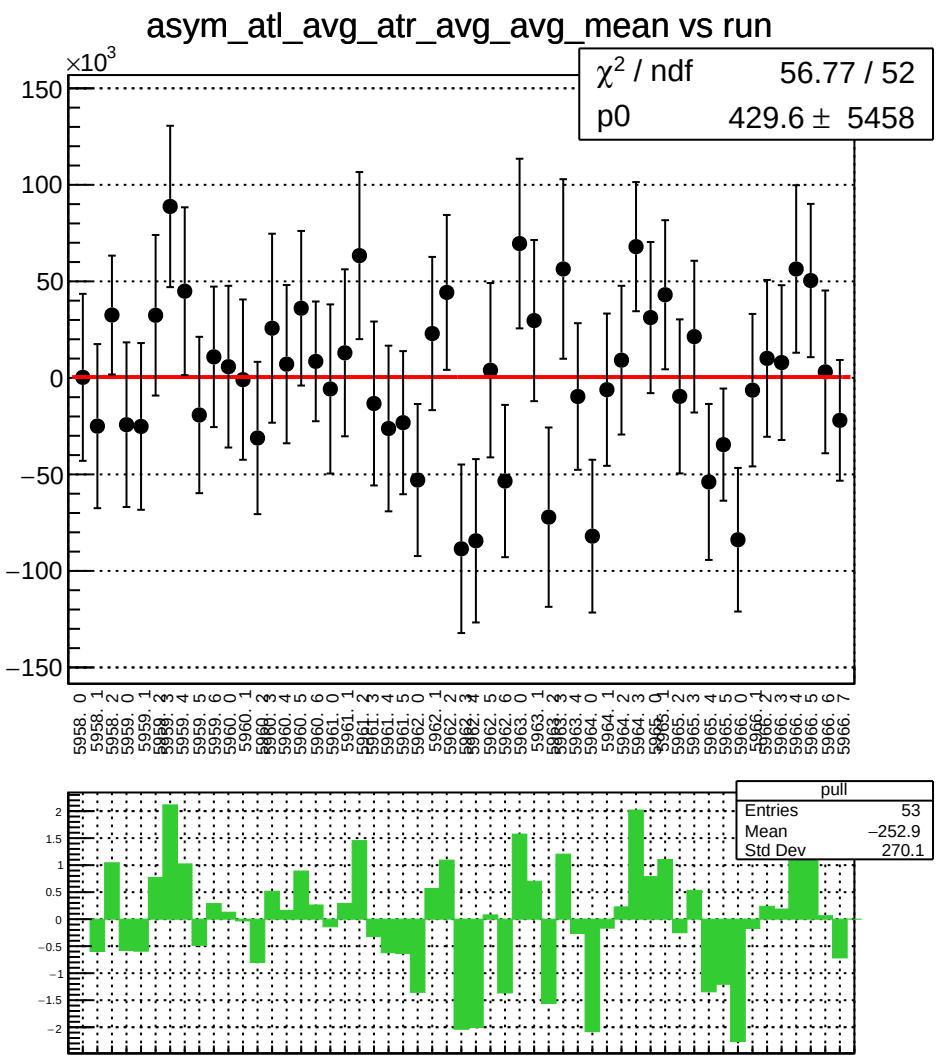
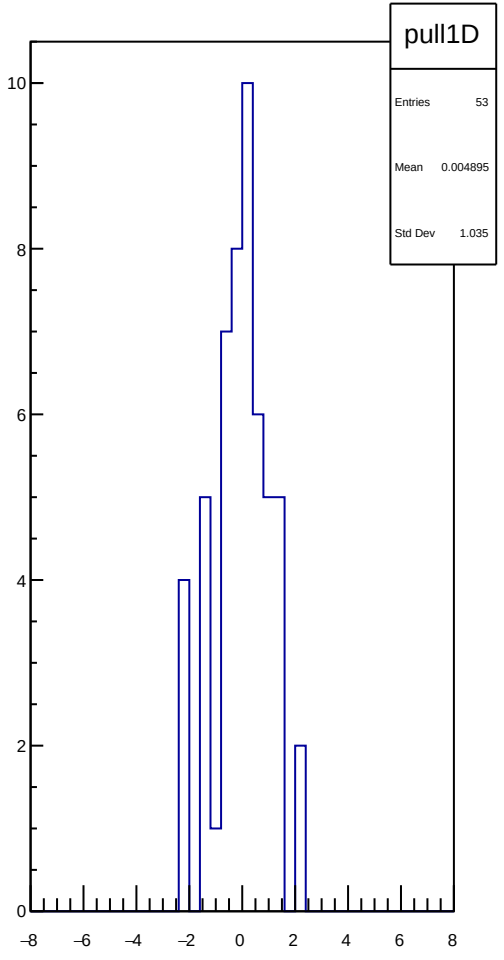
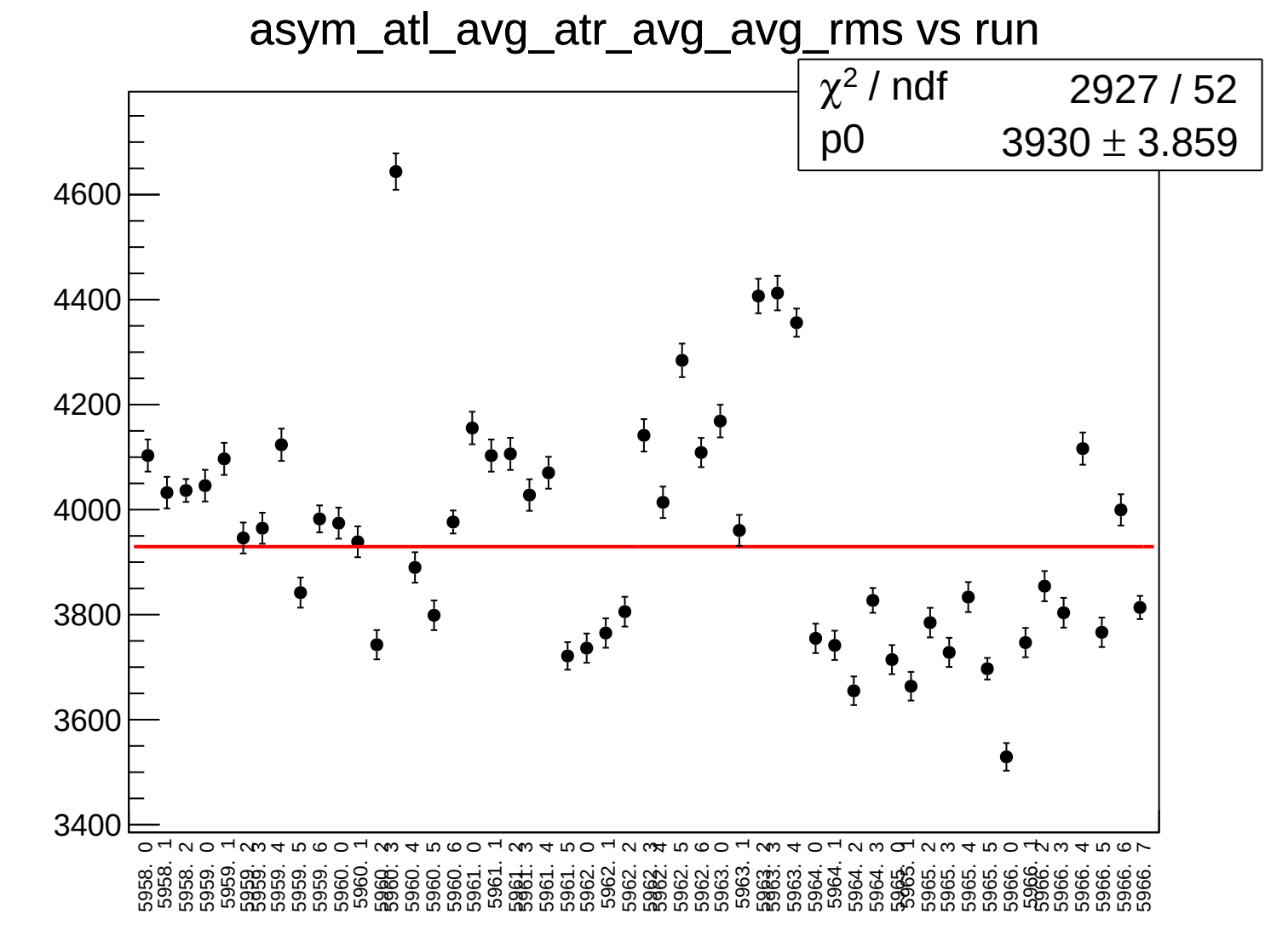
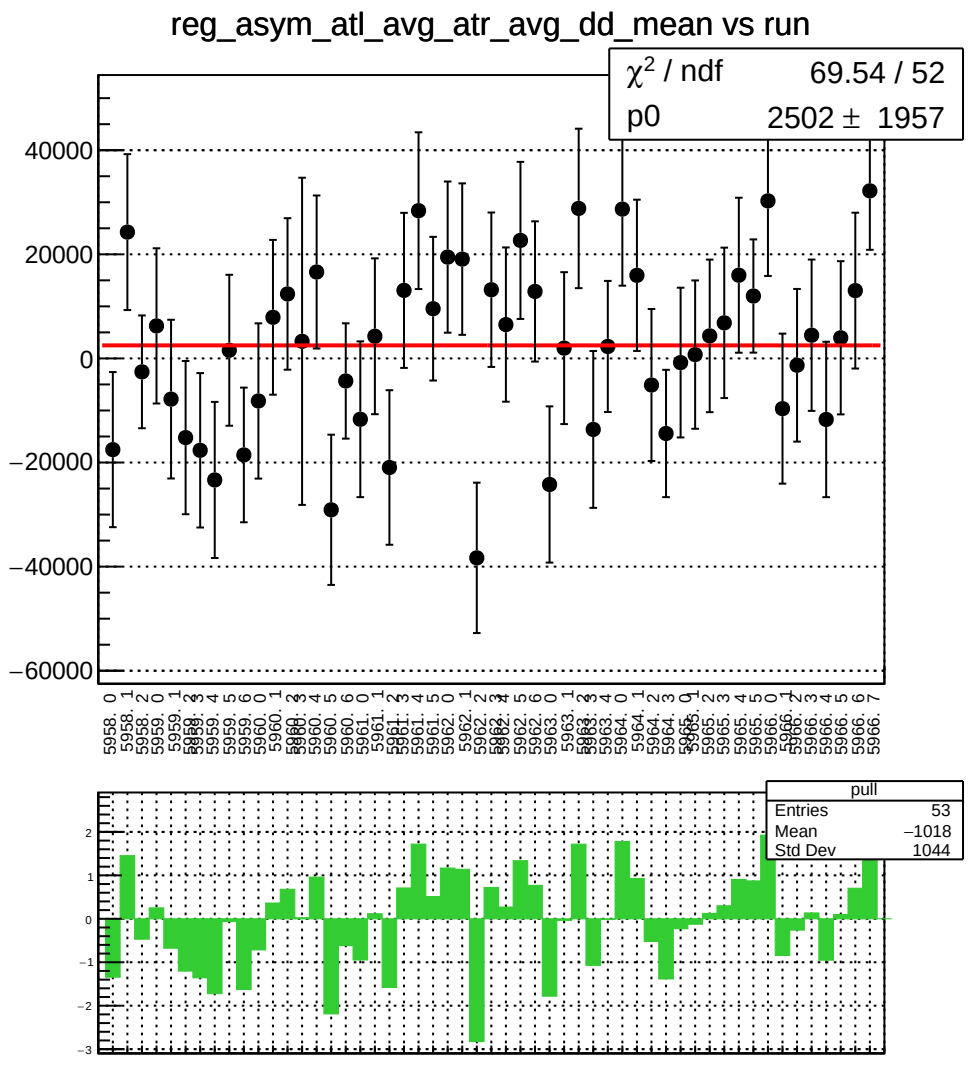
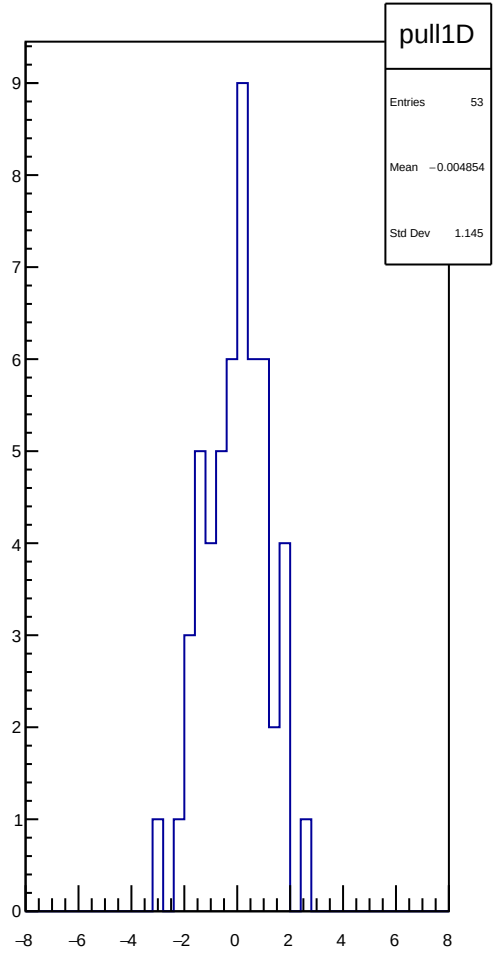
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

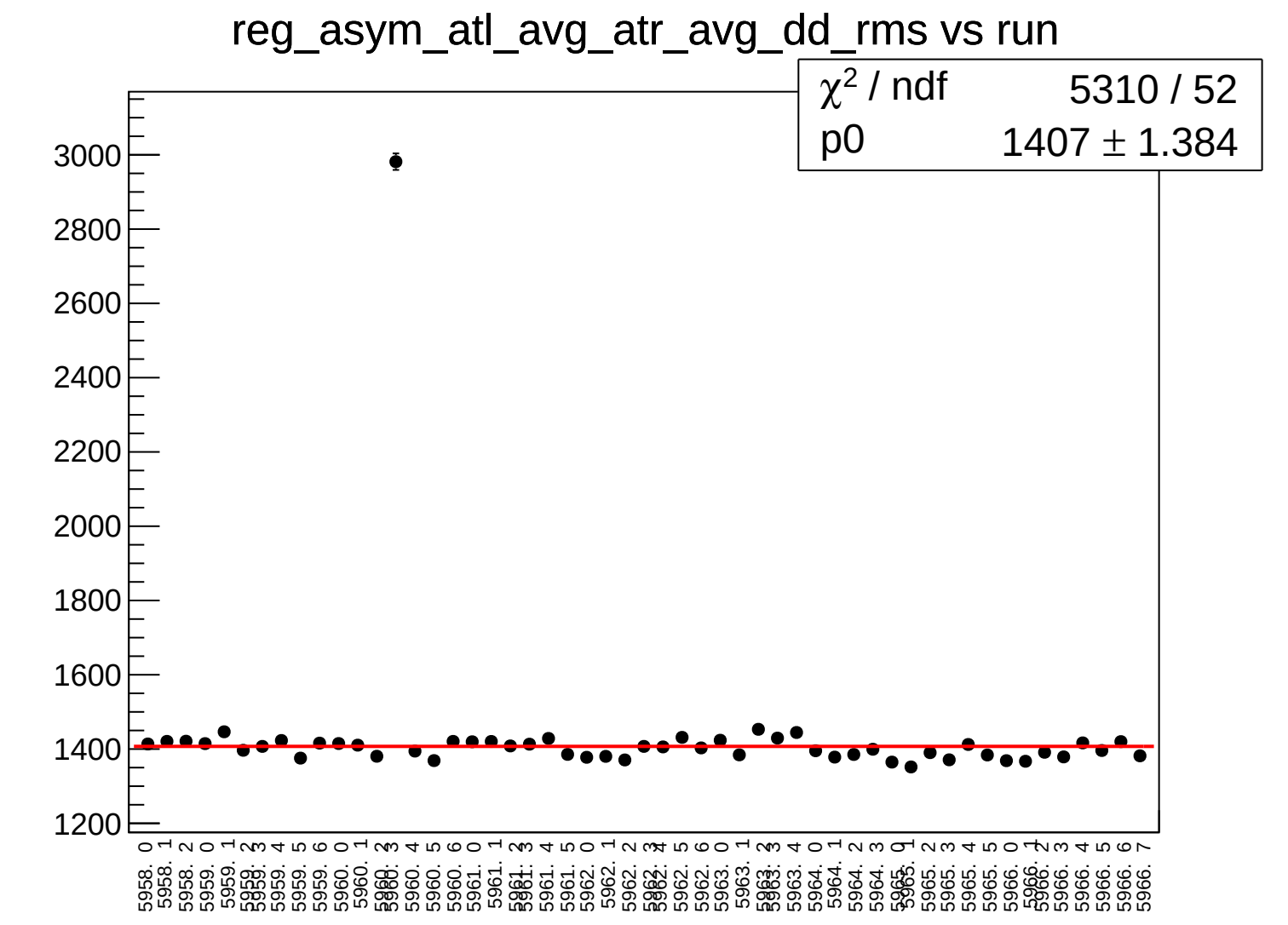

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 56.77 / 52
p0 429.6 ± 5458
150
100
50
0
−50
−100
−150
pull
Entries 53
Mean −252.9
Std Dev 270.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

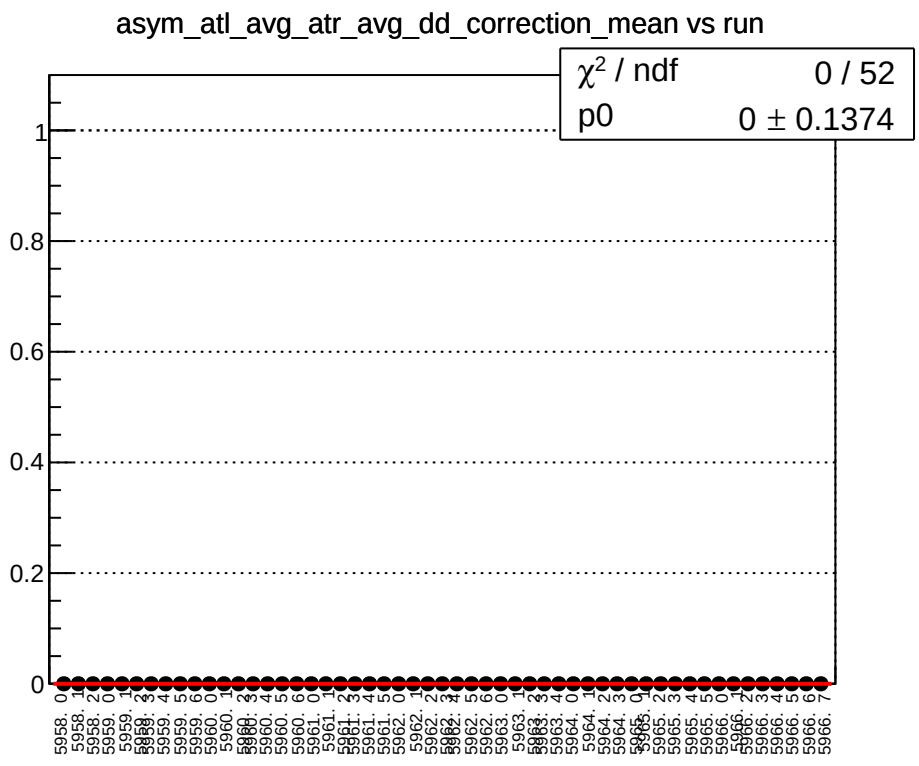

pull1D
Entries 53
Mean 0.004895
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

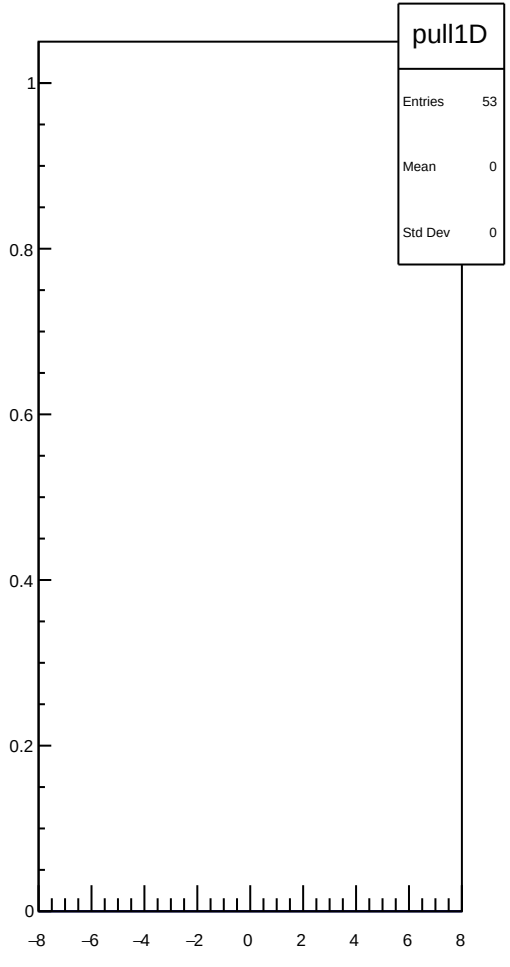

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2927 / 52
p0 3930 ± 3.859
4600
4400
4200
4000
3800
3600
3400

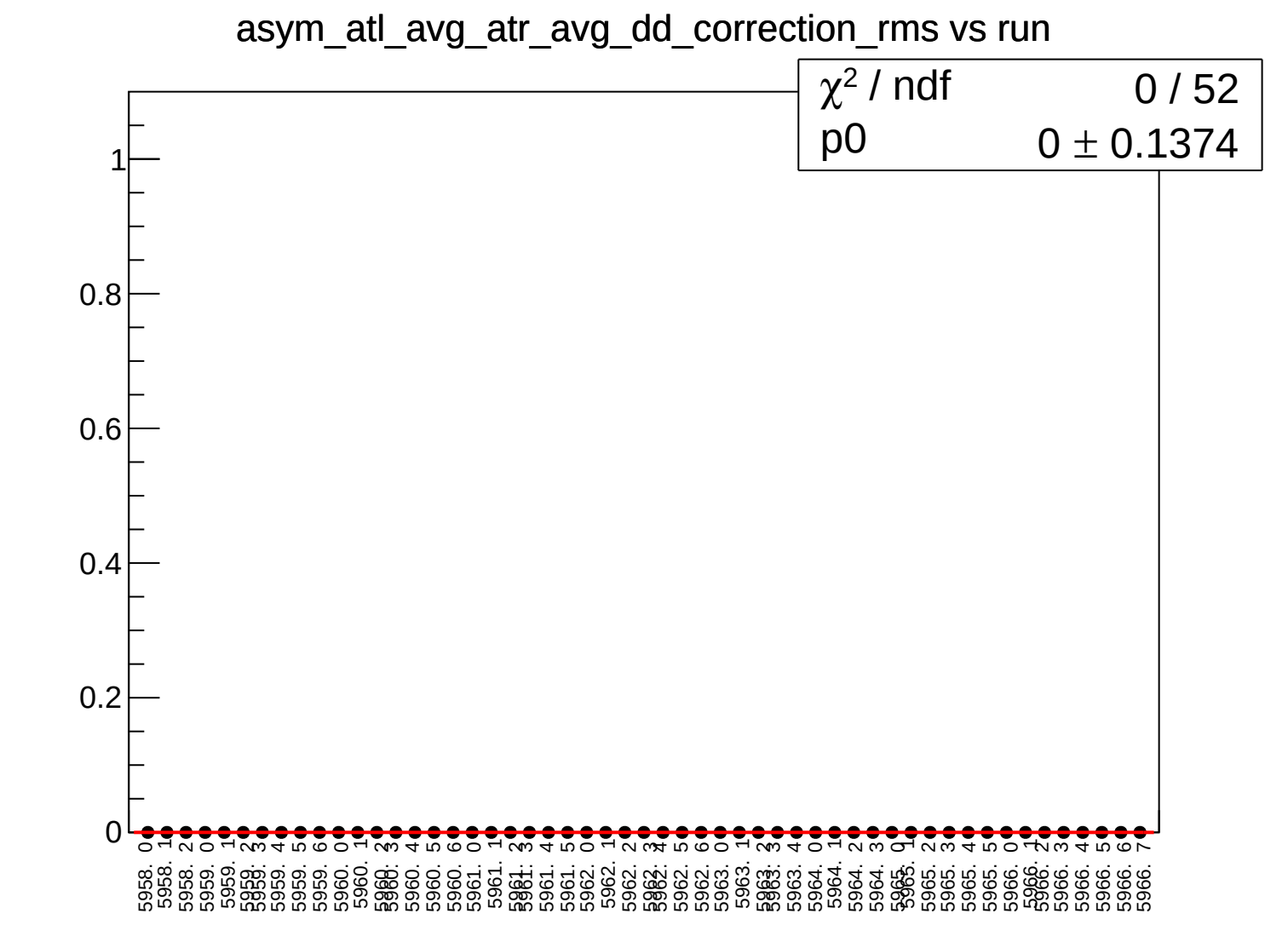

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 69.54 / 52
p0 2502 ± 1957
pull
Entries 53
Mean −1018
Std Dev 1044

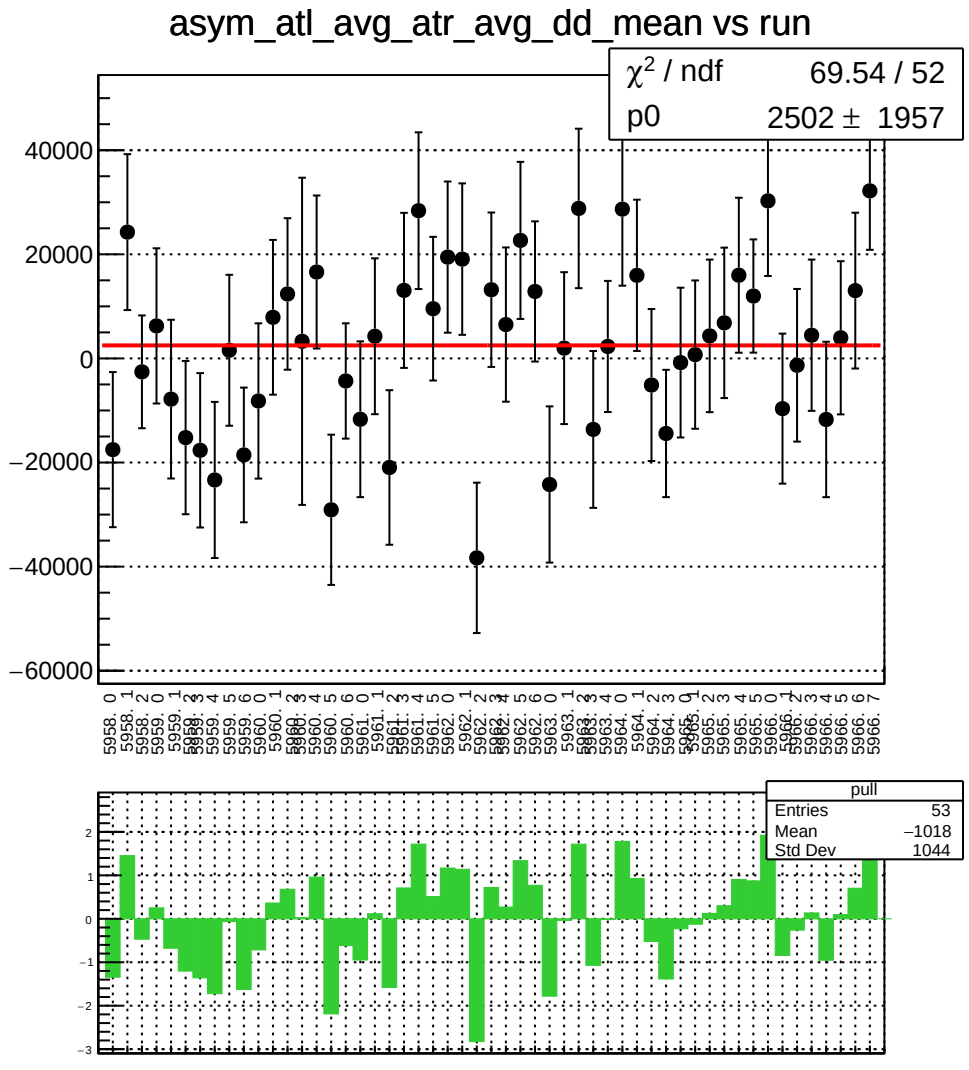

pull1D
Entries 53
Mean −0.004854
Std Dev 1.145

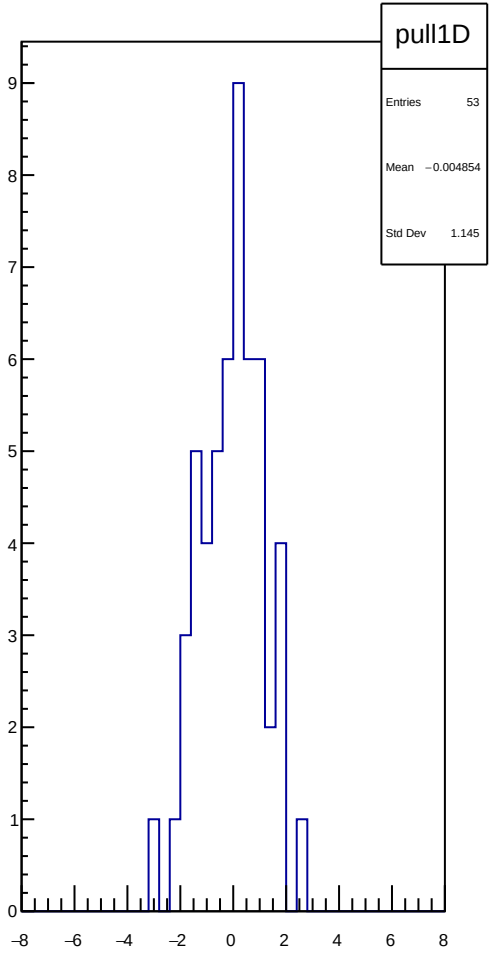

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5310 / 52
p0 1407 ± 1.384
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

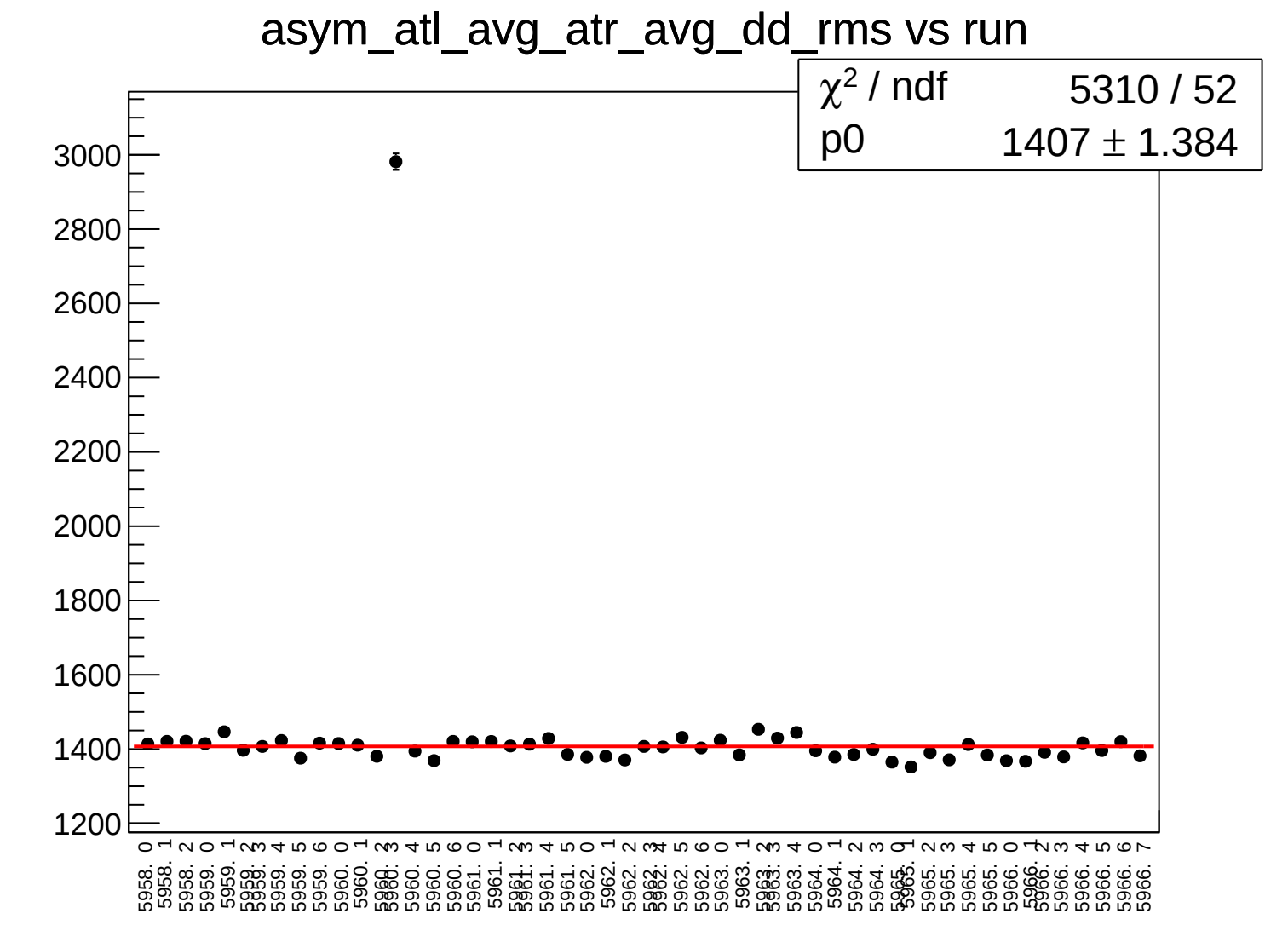

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 52
p0 0 ± 0.1374
1
0.8
0.6
0.4
0.2
0

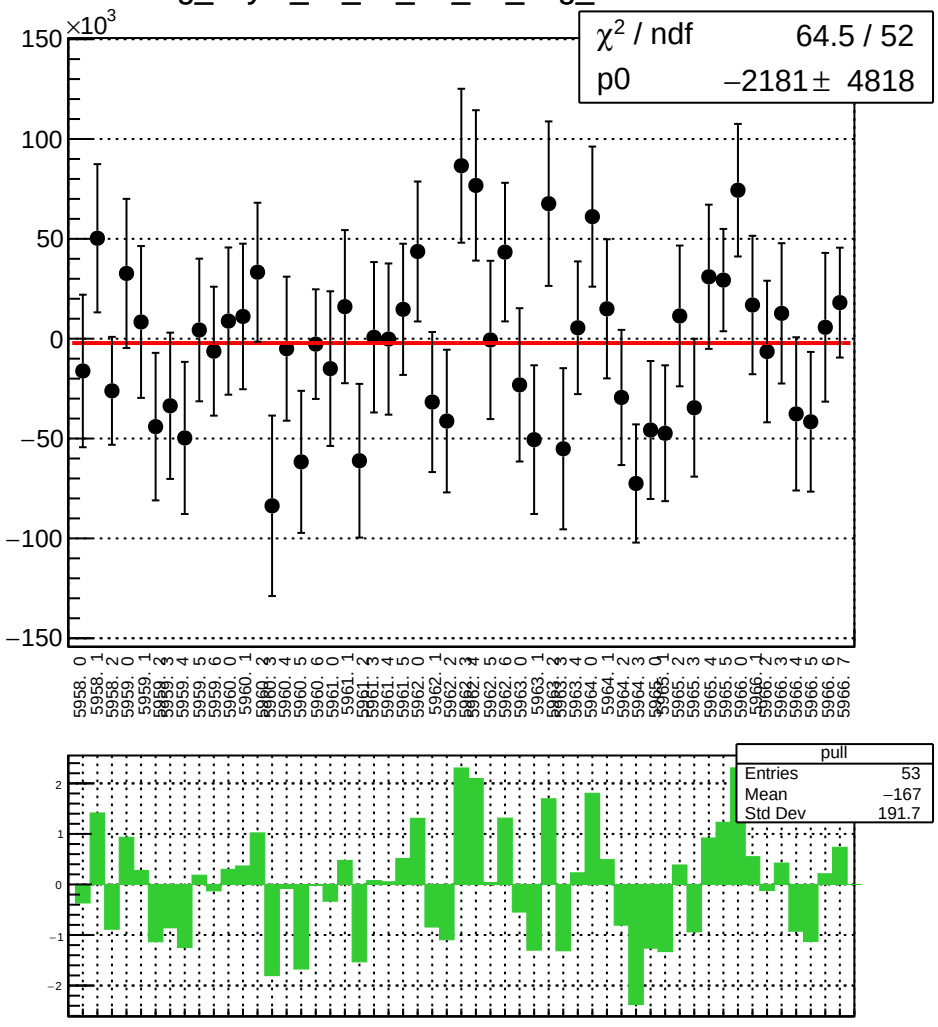

pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

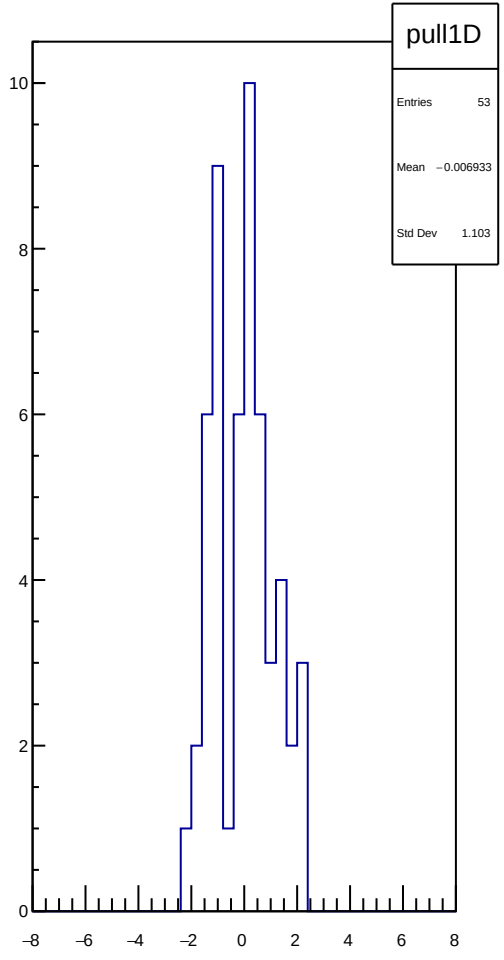

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 52
p0 0 ± 0.1374
1
0.8
0.6
0.4
0.2
0

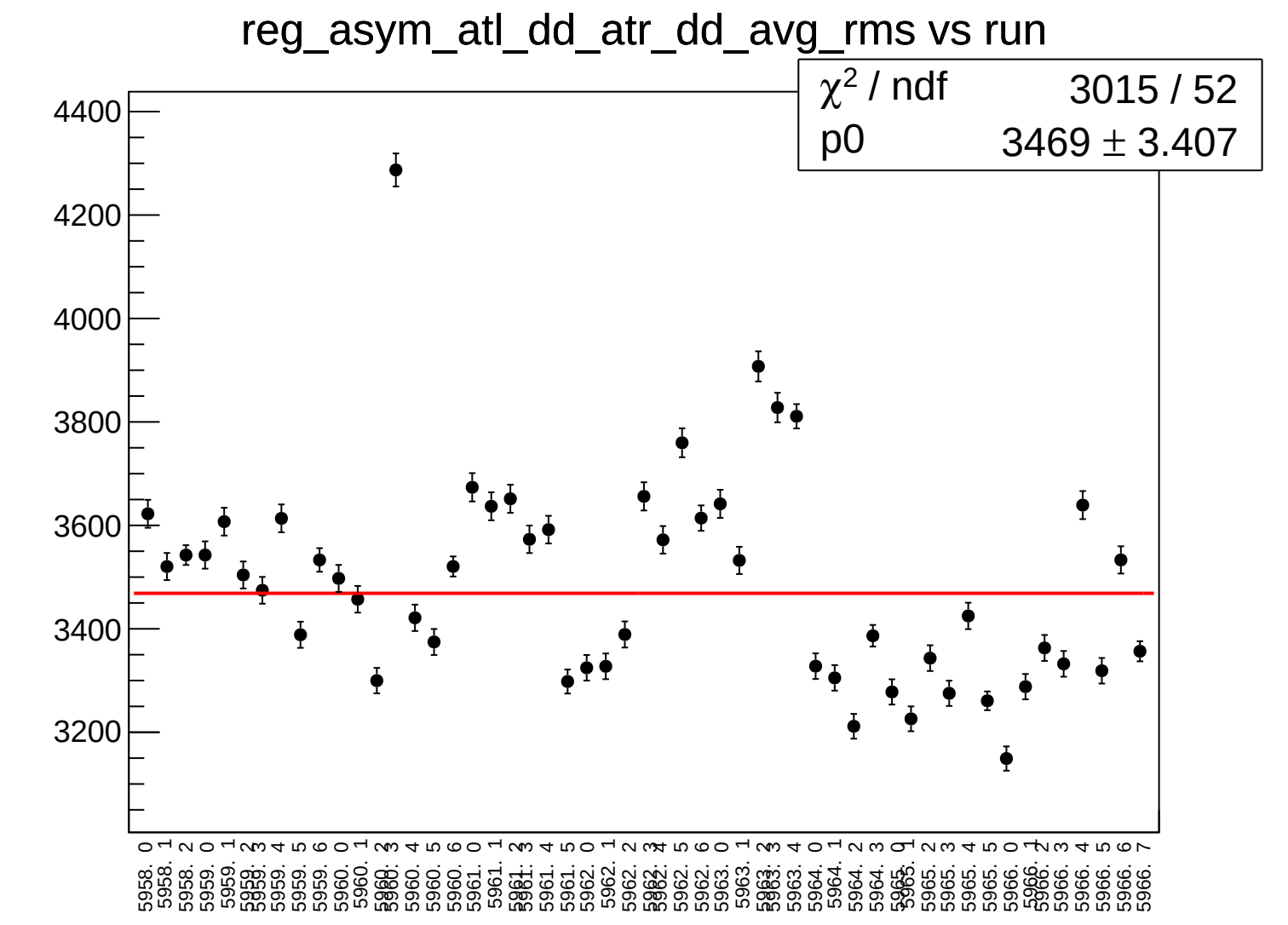

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 69.54 / 52
p0 2502 ± 1957
40000
20000
0
−20000
−40000
−60000
pull
Entries 53
Mean −1018
Std Dev 1044
2
1
0
−1
−2
−3

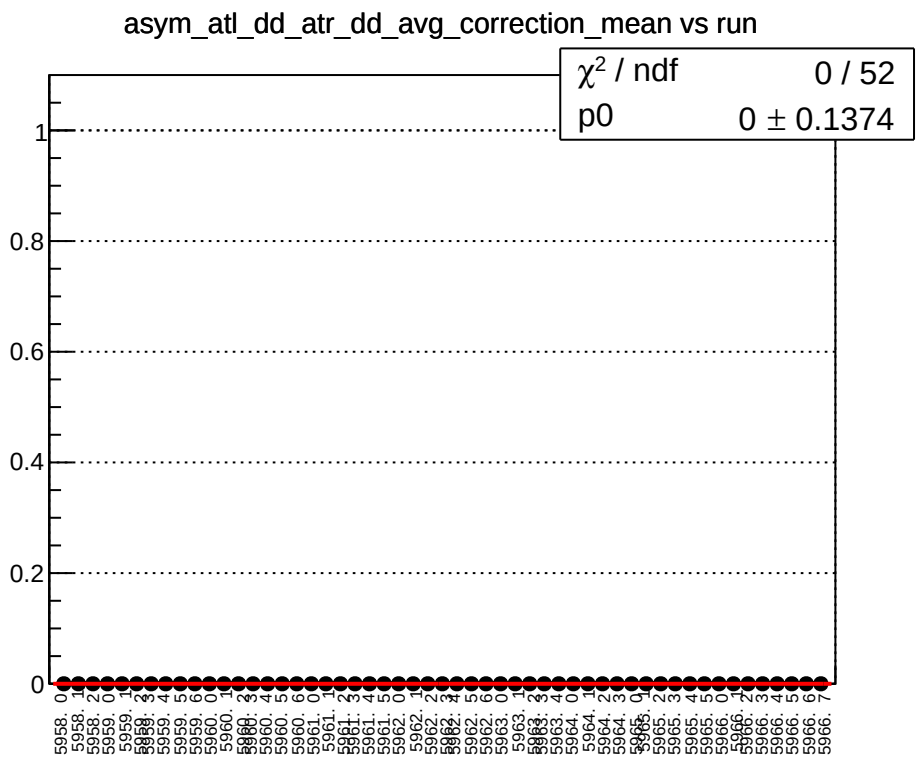

pull1D
Entries 53
Mean −0.004854
Std Dev 1.145
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

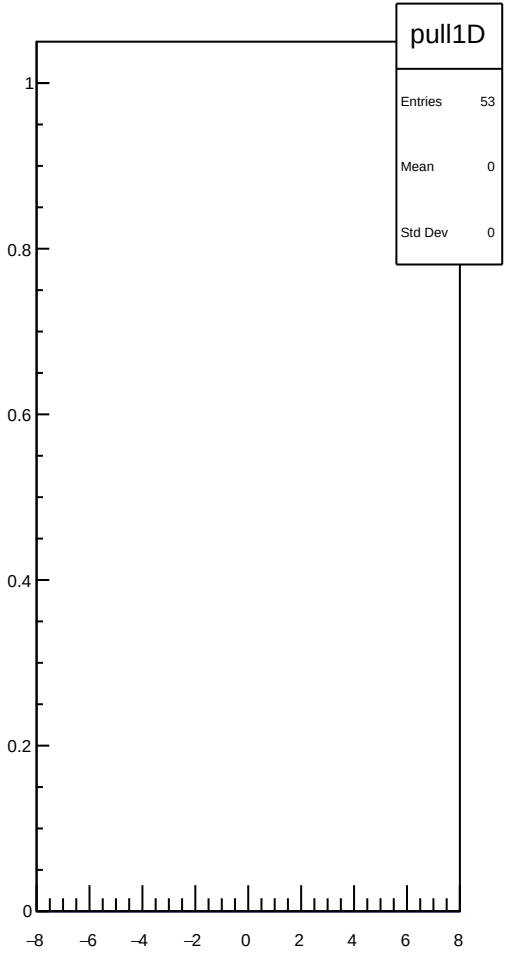

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5310 / 52
p0 1407 ± 1.384
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

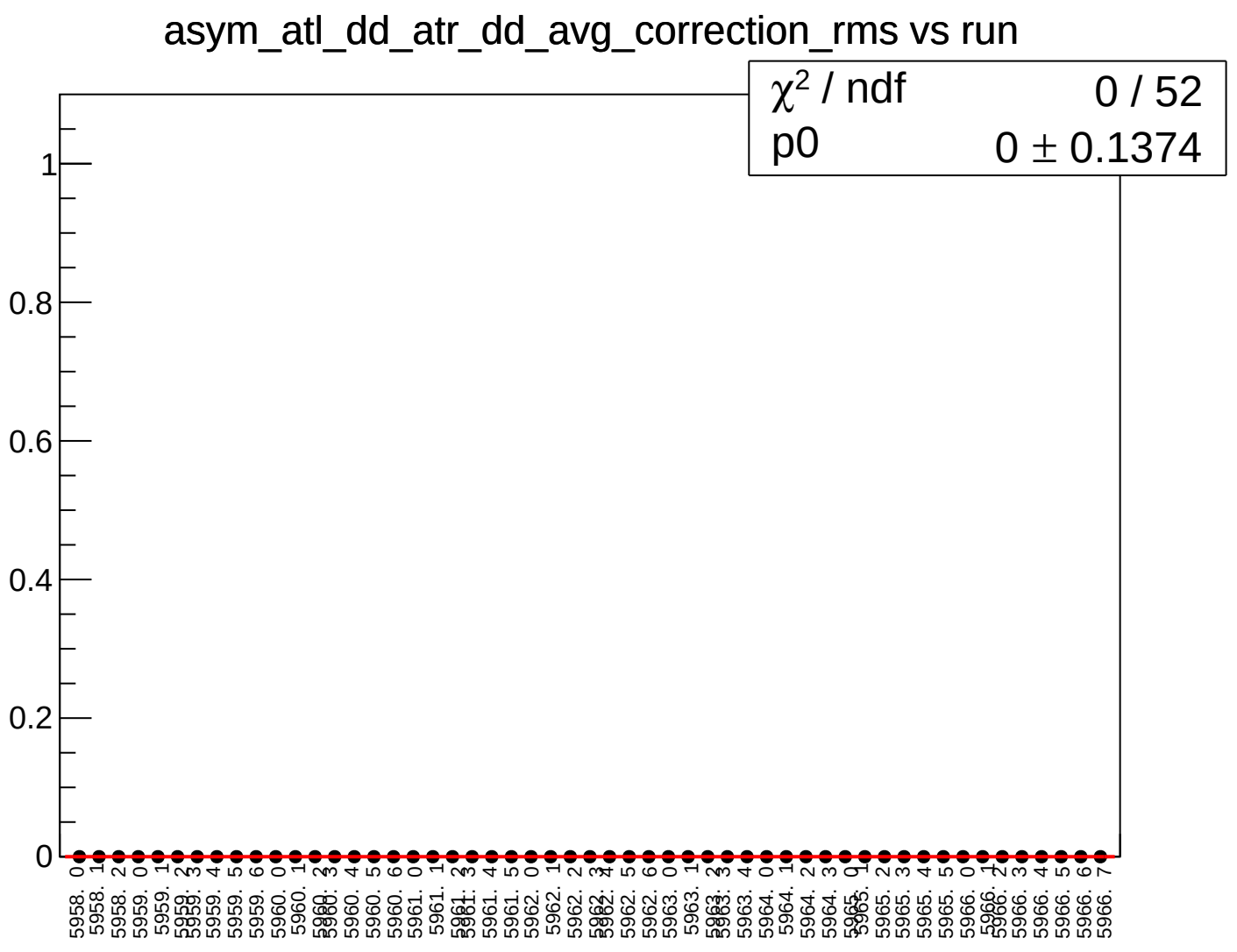

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 64.5 / 52
p0 −2181 ± 4818
×10³
150
100
50
0
−50
−100
−150
pull
Entries 53
Mean −167
Std Dev 191.7
2
1
0
−1
−2

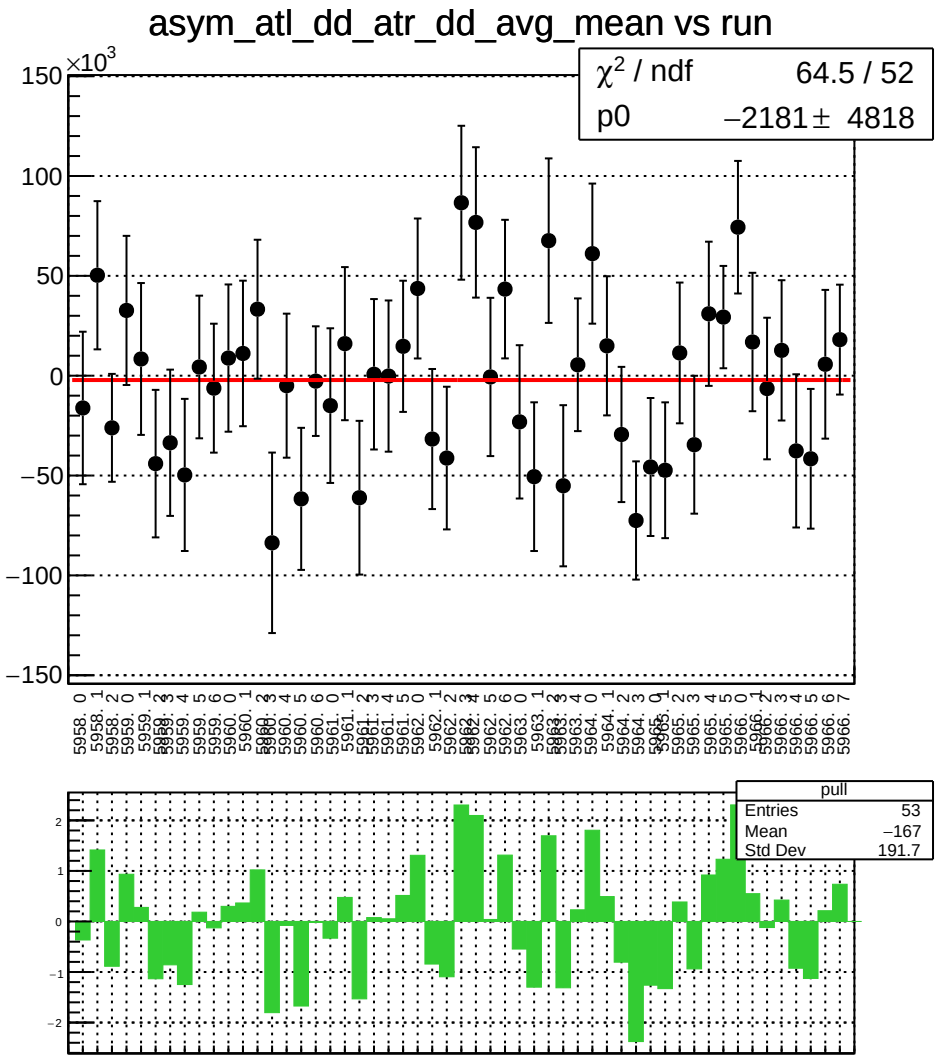

pull1D
Entries 53
Mean −0.006933
Std Dev 1.103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

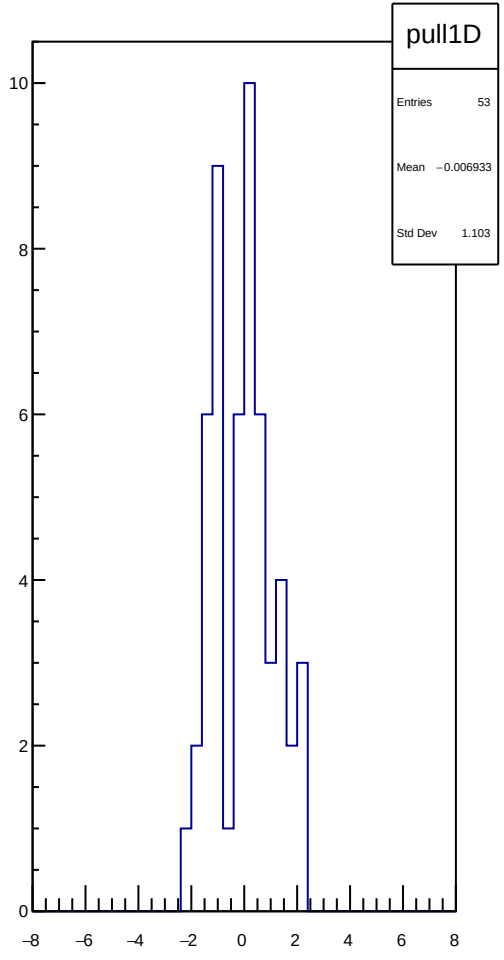

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3015 / 52
p0 3469 ± 3.407
4400
4200
4000
3800
3600
3400
3200

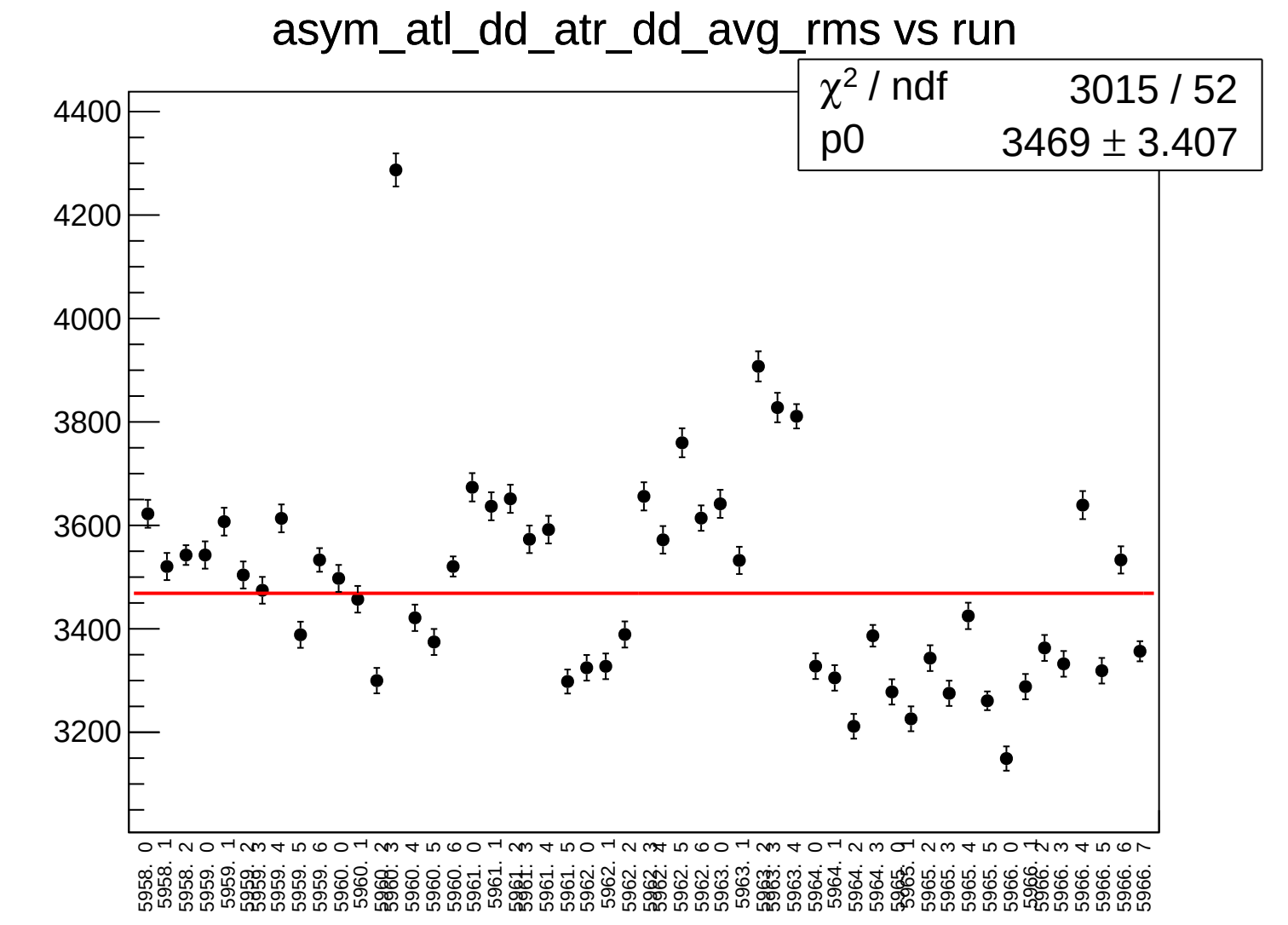

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 52
p0 0 ± 0.1374
1
0.8
0.6
0.4
0.2
0

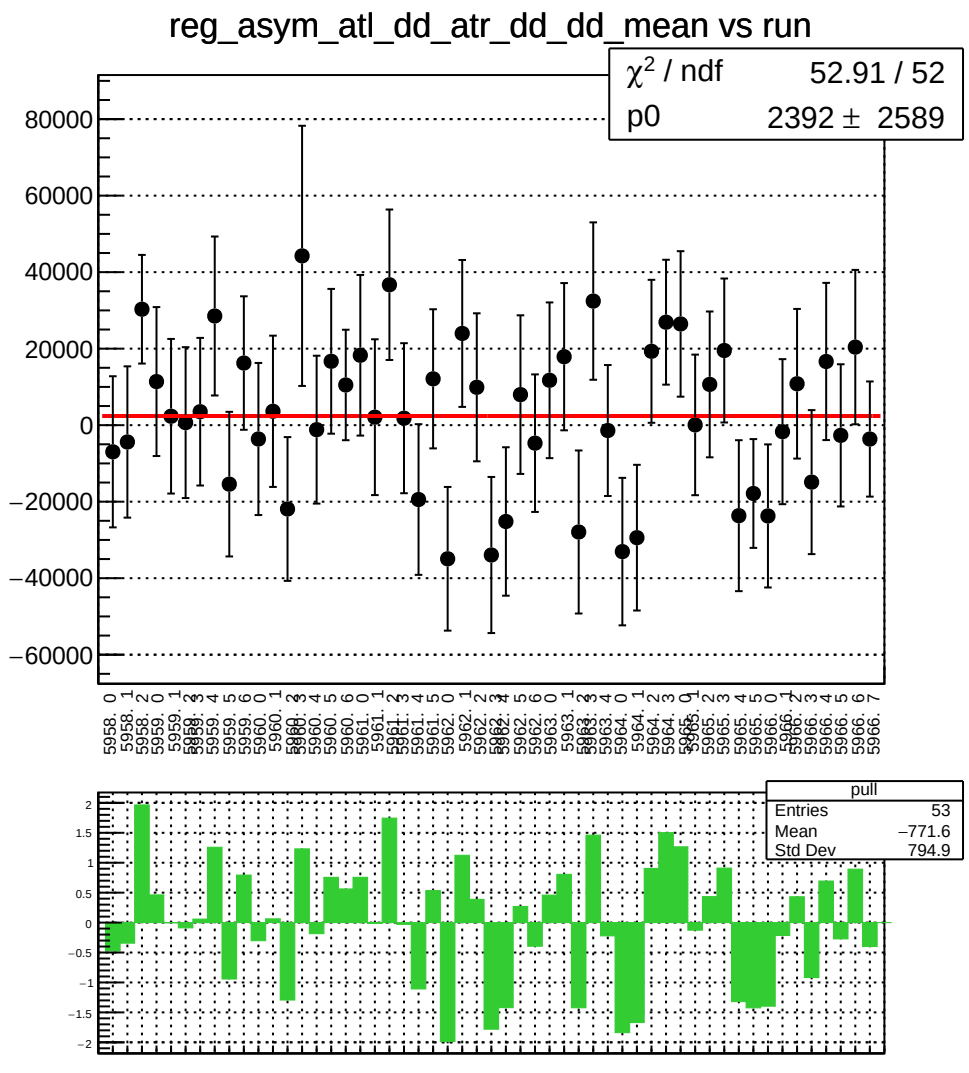

pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

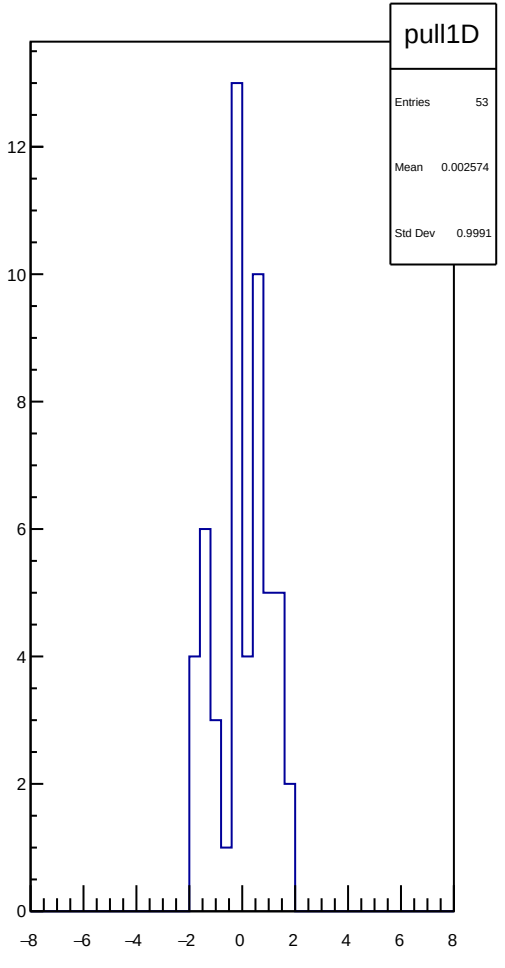

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 52
p0 0 ± 0.1374
1
0.8
0.6
0.4
0.2
0

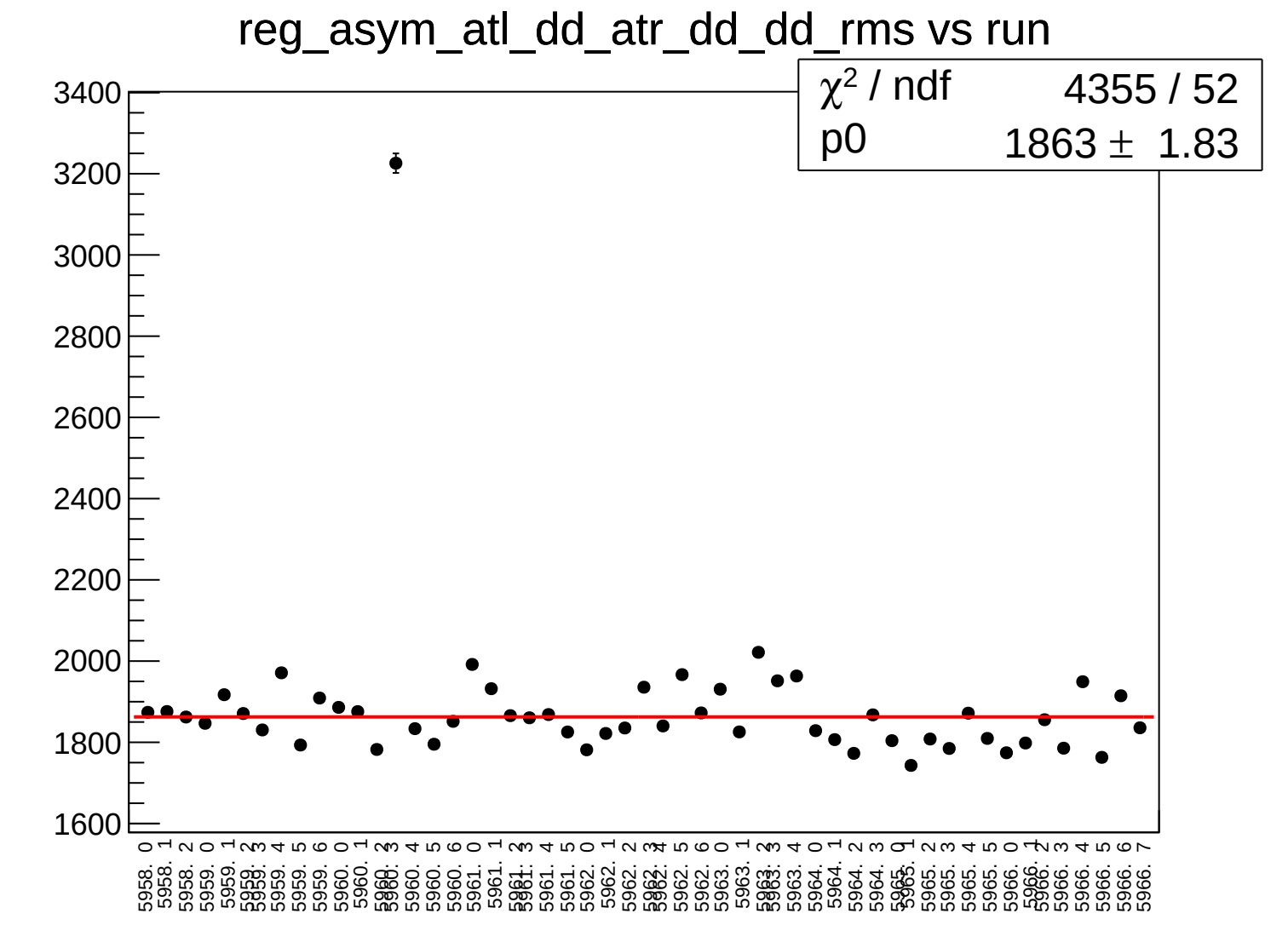

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 64.5 / 52
p0 −2181 ± 4818
×10³
150
100
50
0
−50
−100
−150
pull
Entries 53
Mean −167
Std Dev 191.7
2
1
0
−1
−2


pull1D
Entries 53
Mean −0.006933
Std Dev 1.103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3015 / 52
p0 3469 ± 3.407
4400
4200
4000
3800
3600
3400
3200


reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 52.91 / 52
p0 2392 ± 2589
pull
Entries 53
Mean −771.6
Std Dev 794.9


pull1D
Entries 53
Mean 0.002574
Std Dev 0.9991


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4355 / 52
p0 1863 ± 1.83
3400
3200
3000
2800
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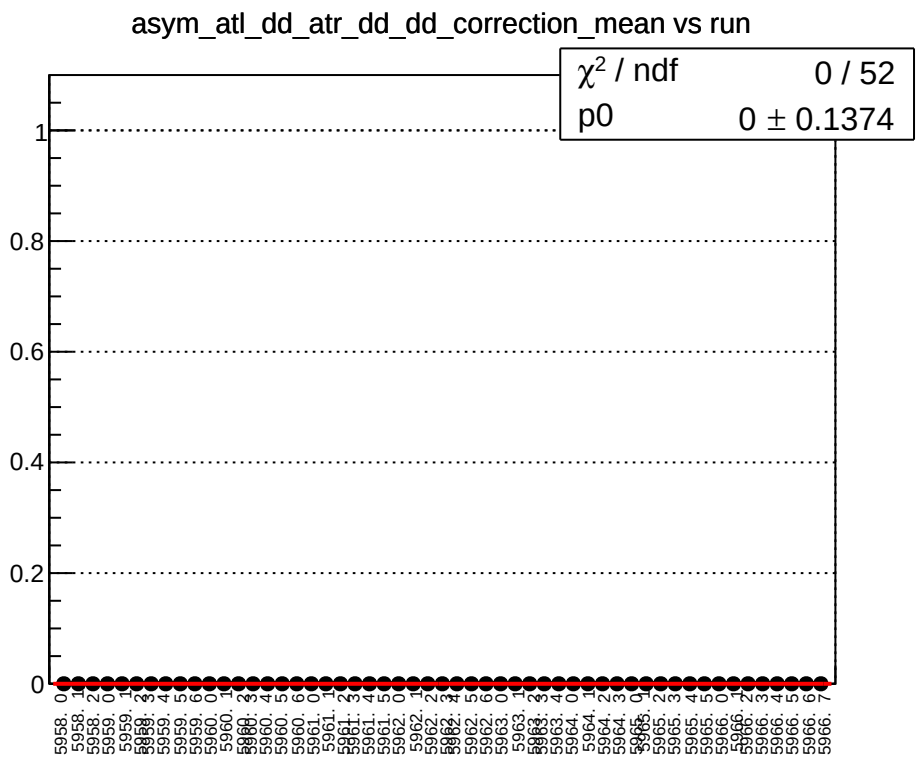
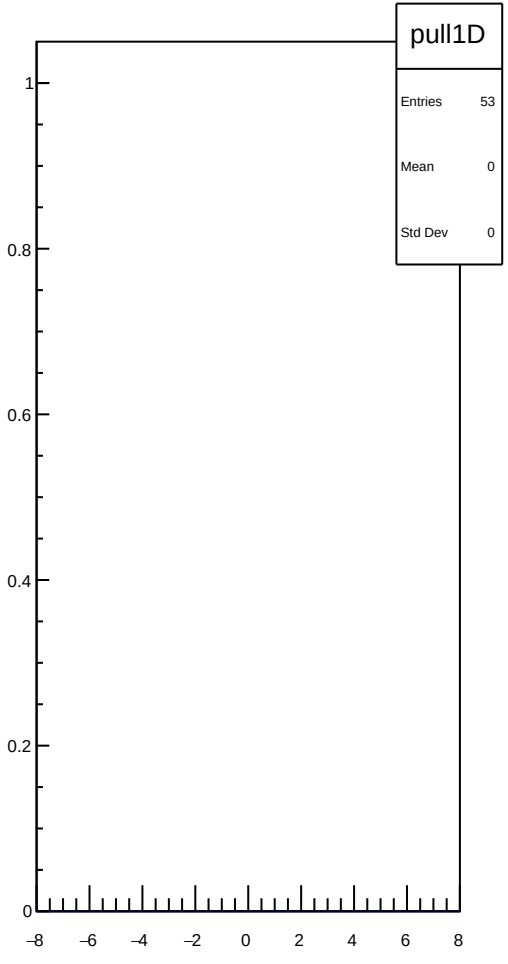
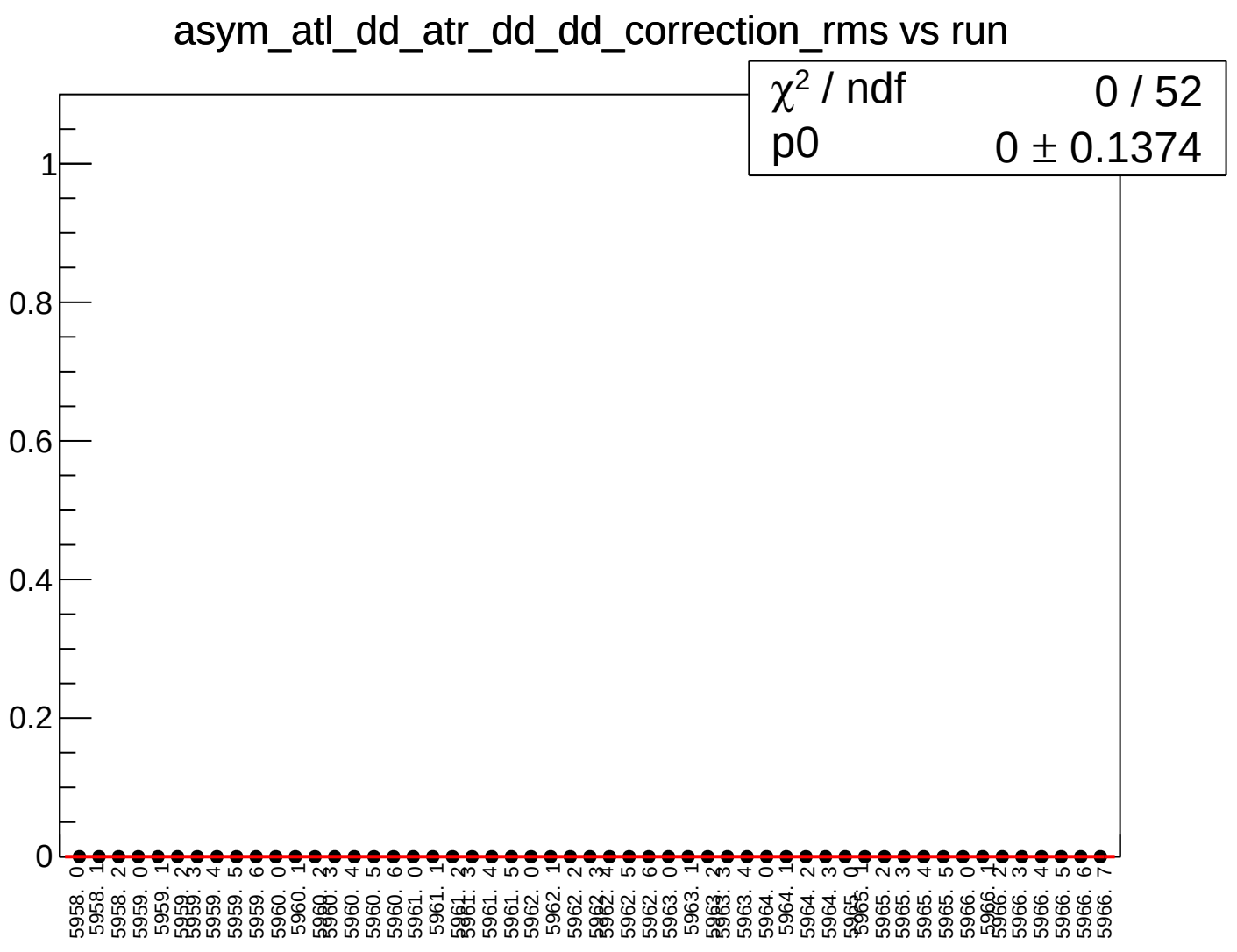
2400
2200
2000
1800
1600


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 52
p0 0 ± 0.1374
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 53
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 / 52
p0 0 ± 0.1374
1
0.8
0.6
0.4
0.2
0
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
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5961. 0
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5962. 1
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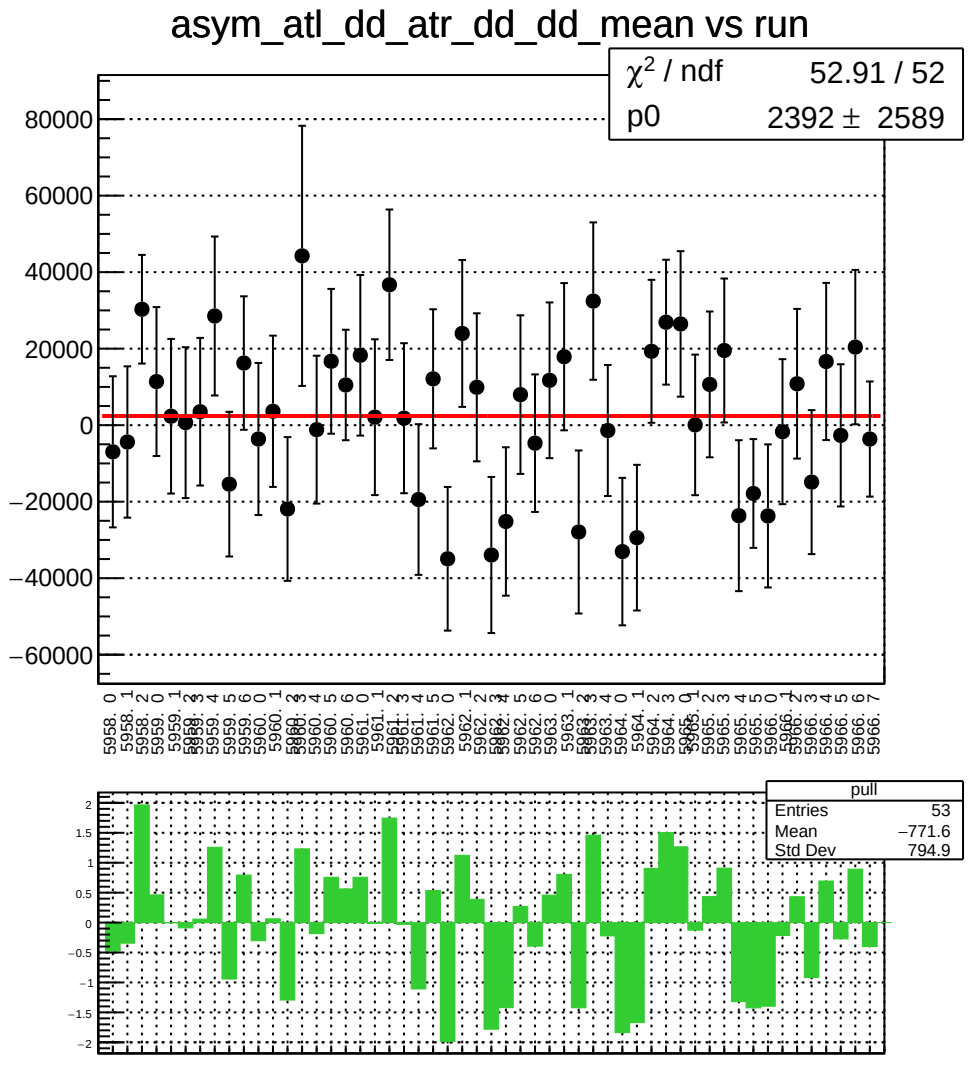
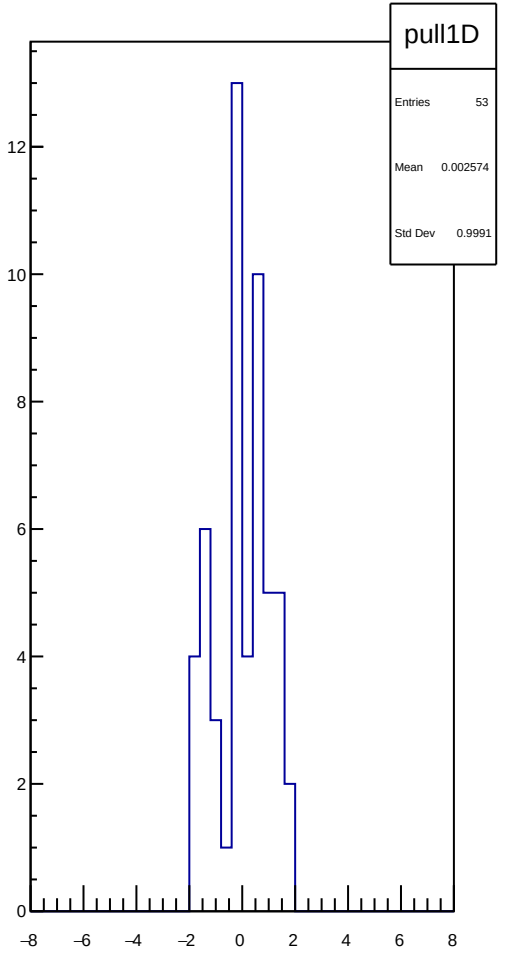
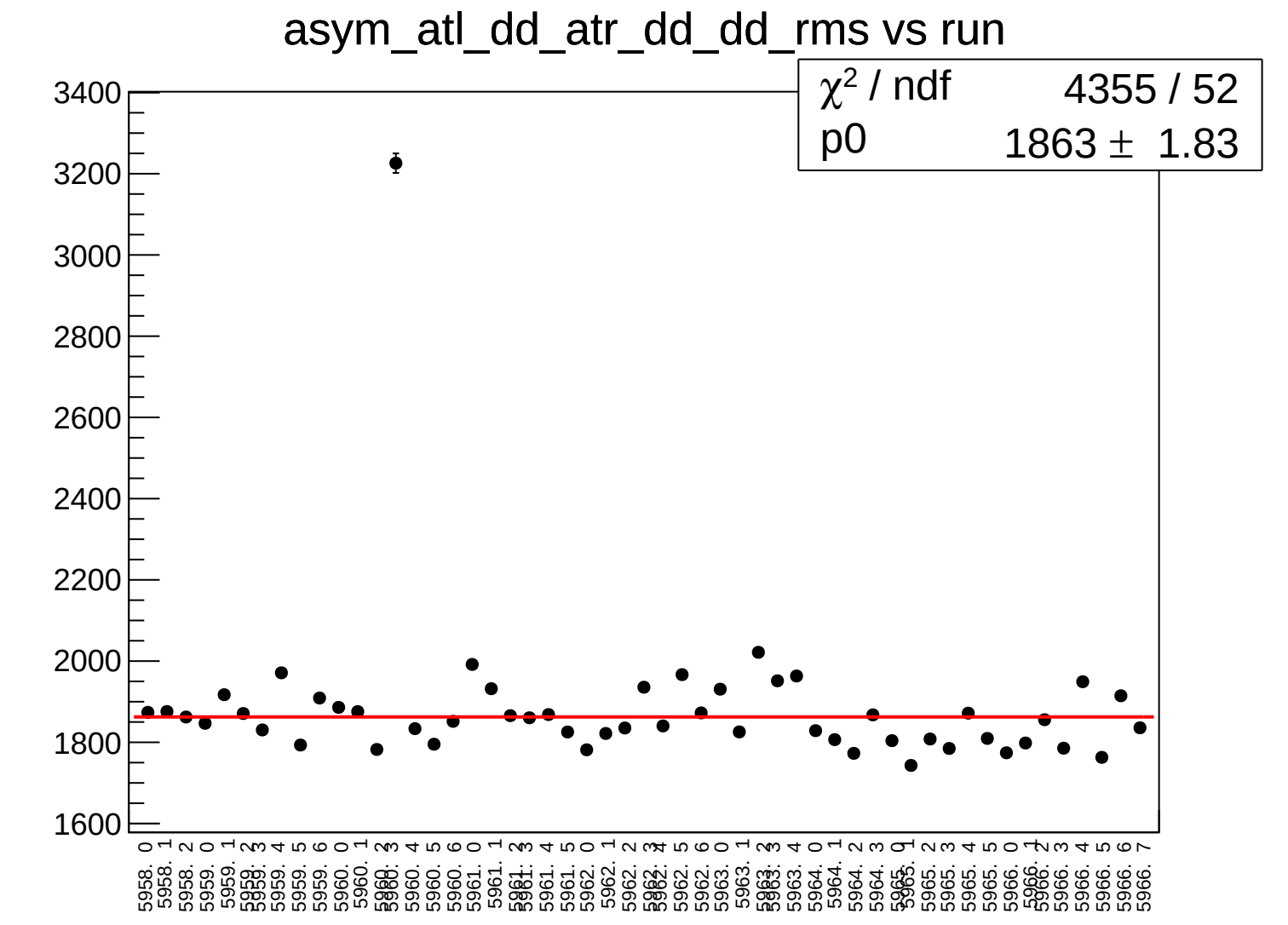
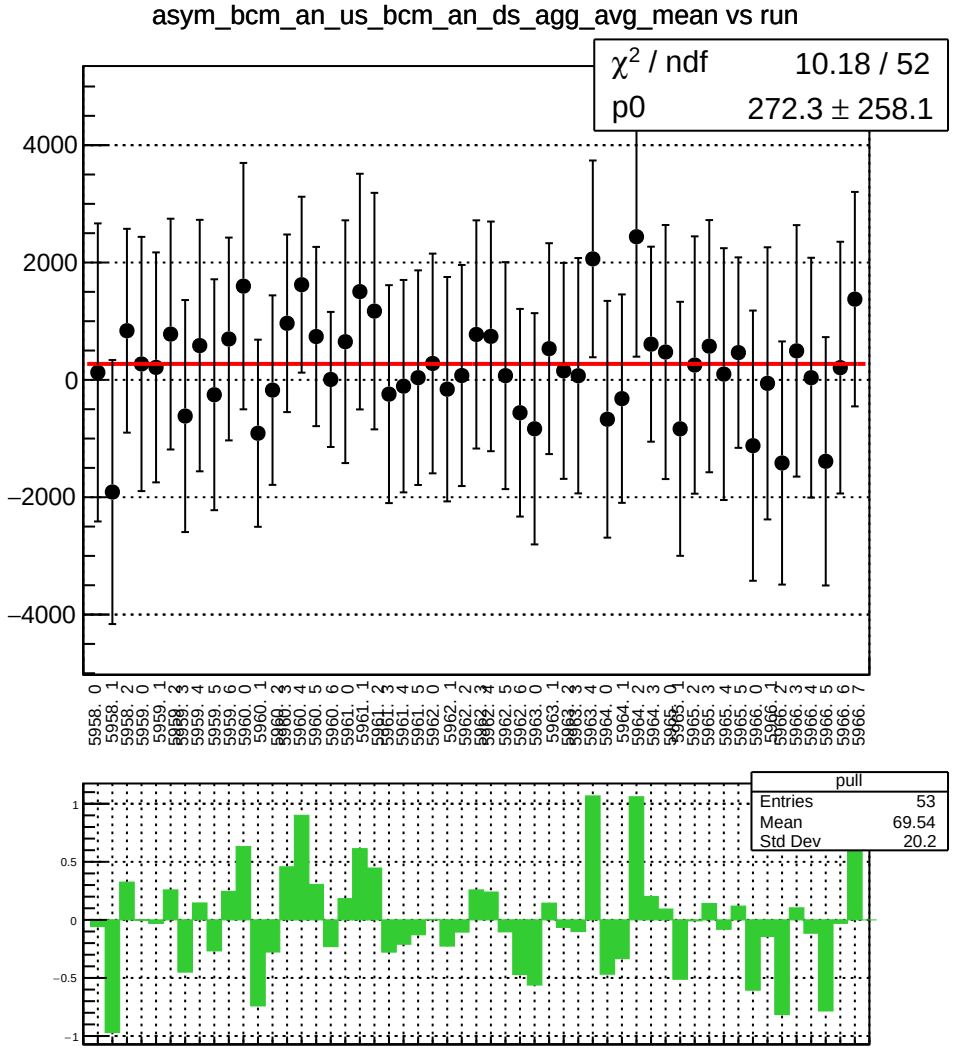
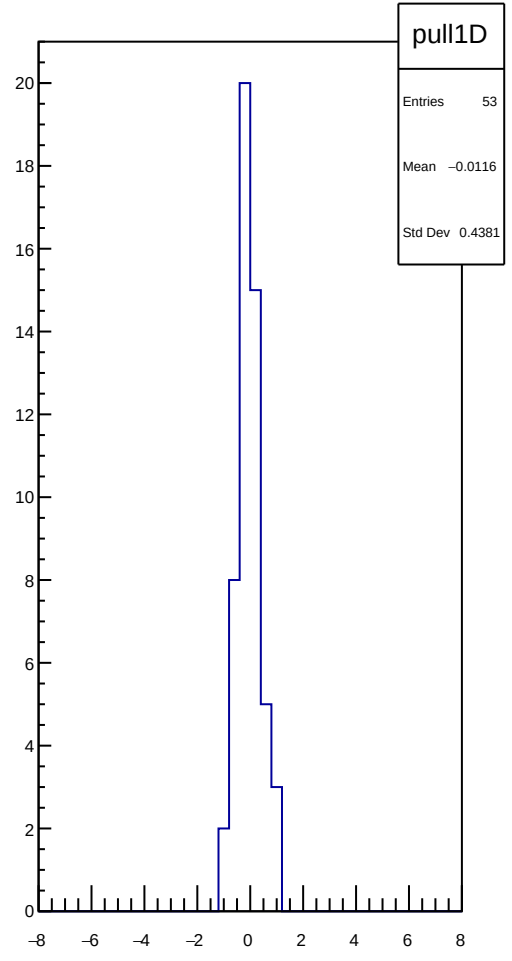
5966. 6
5966. 7

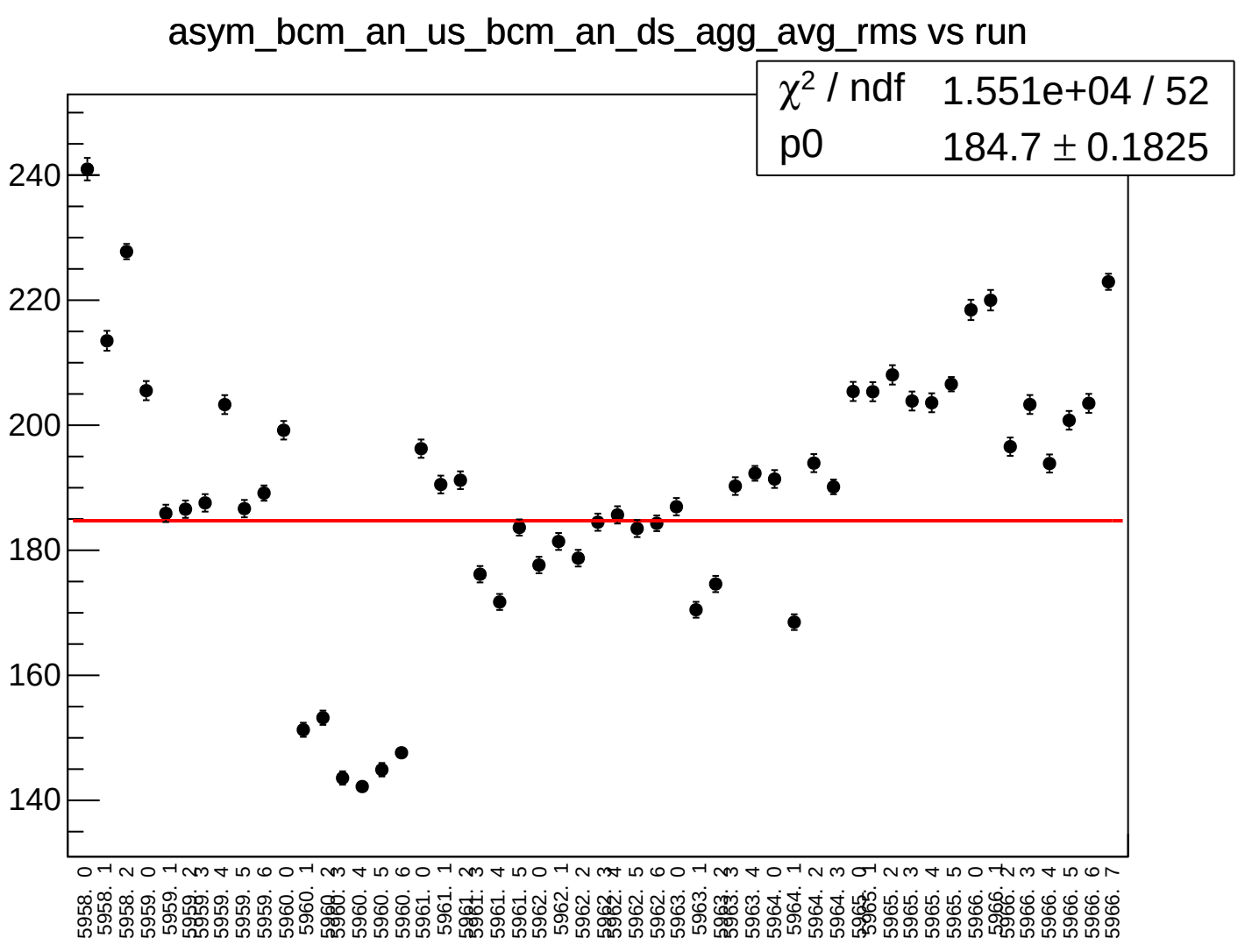

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 52.91 / 52
p0 2392 ± 2589
pull
Entries 53
Mean −771.6
Std Dev 794.9

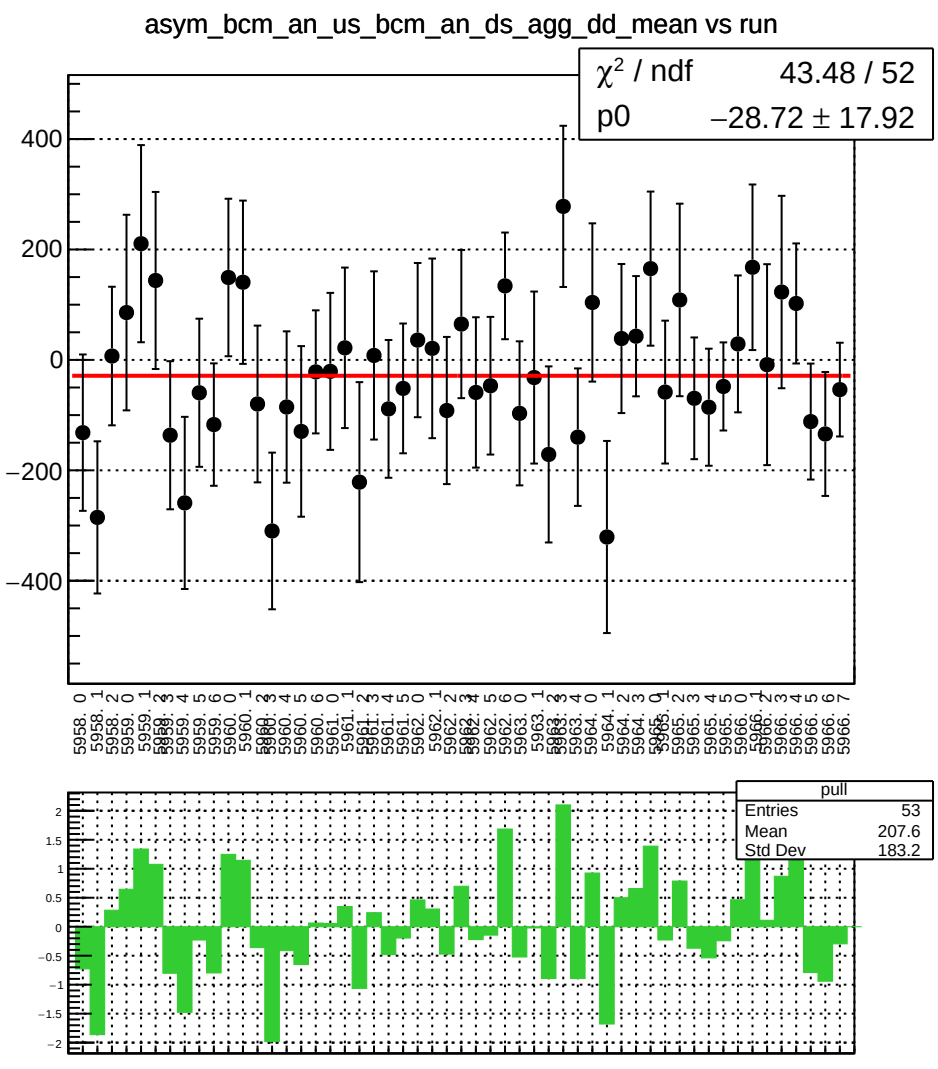

pull1D
Entries 53
Mean 0.002574
Std Dev 0.9991

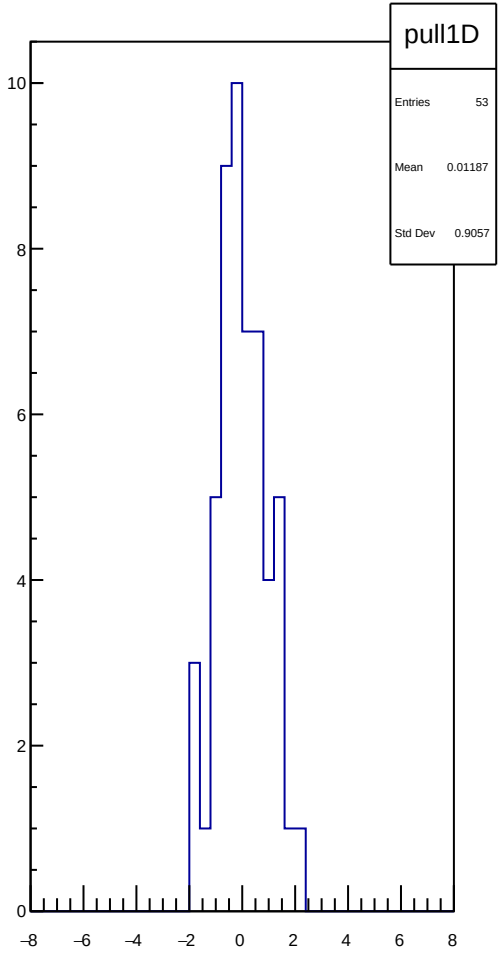

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4355 / 52
p0 1863 ± 1.83
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

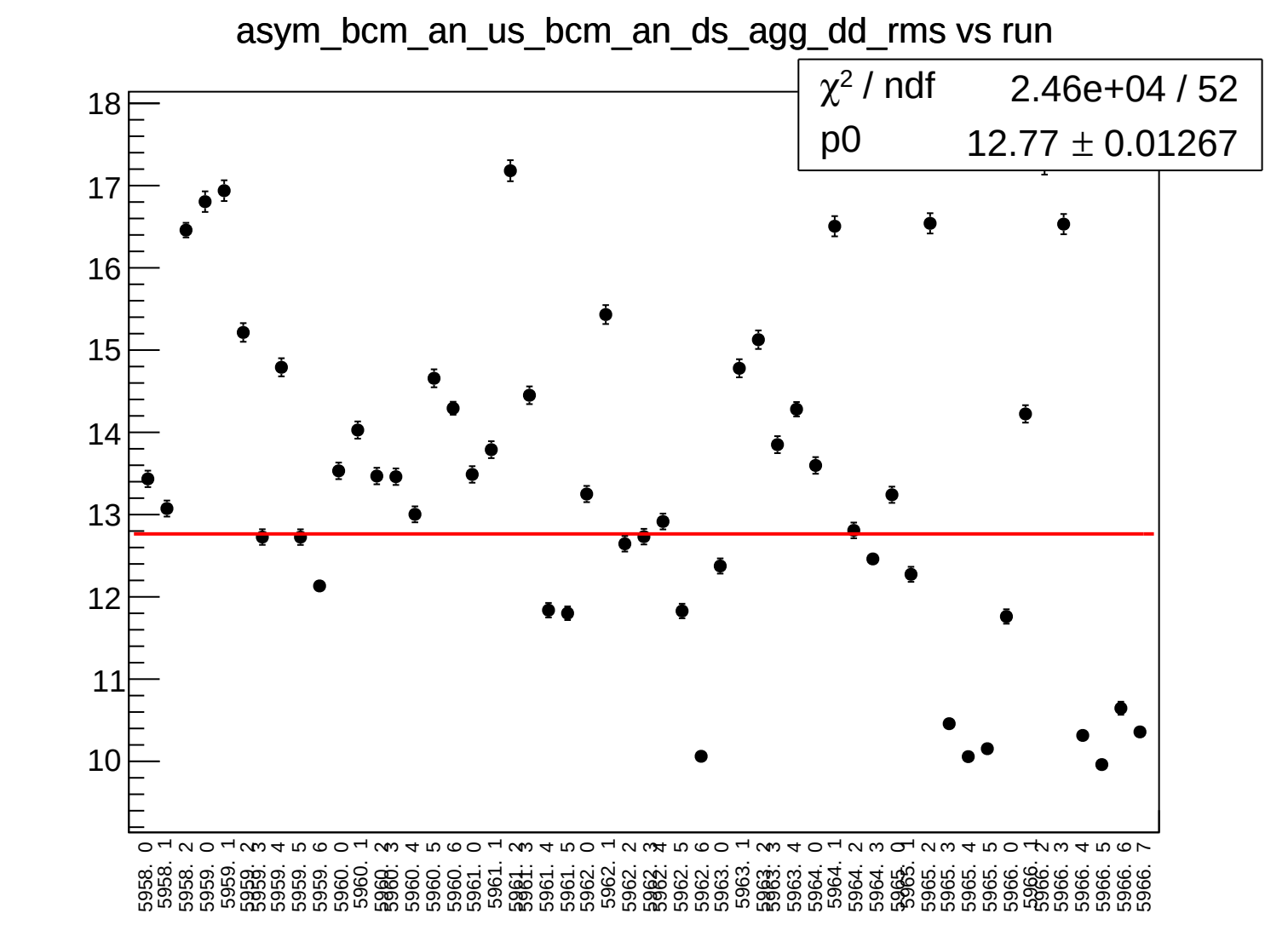

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.18 / 52
p0 272.3 ± 258.1
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 69.54
Std Dev 20.2
1
0.5
0
−0.5
−1

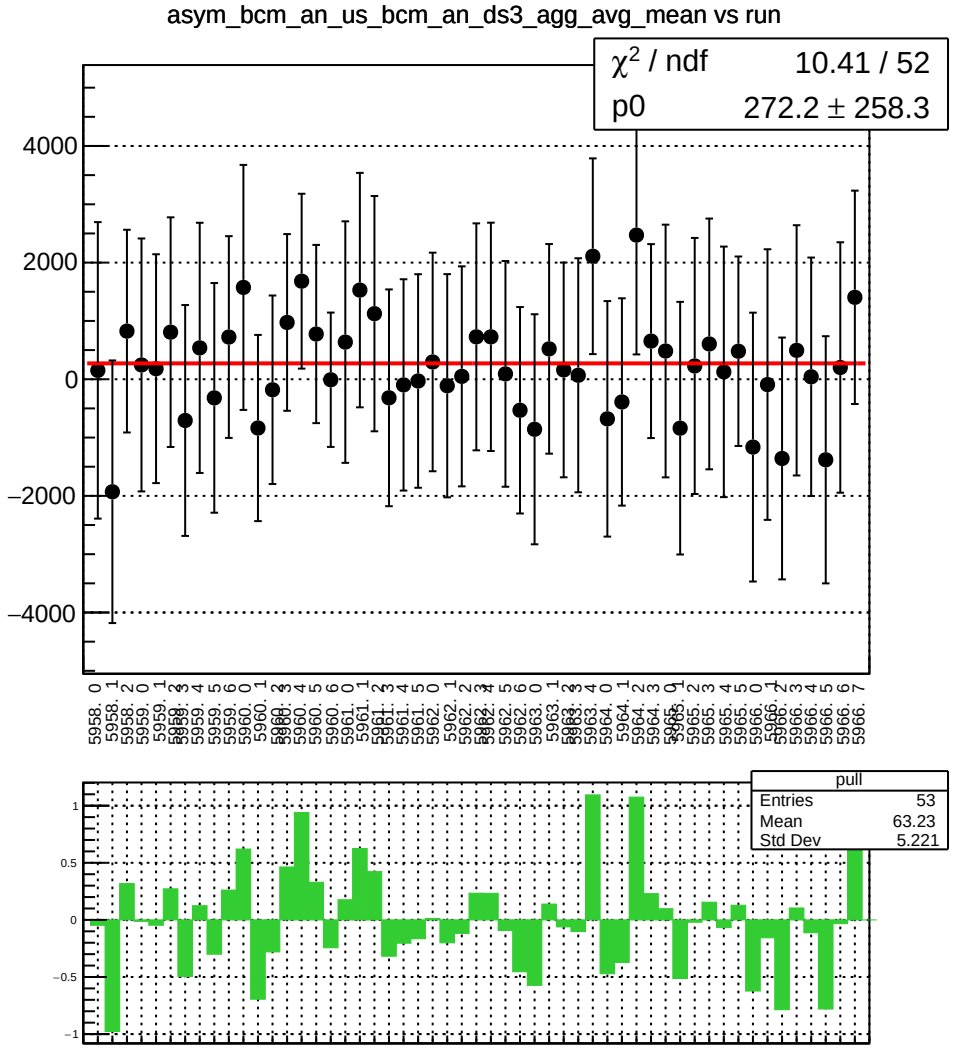

pull1D
Entries 53
Mean −0.0116
Std Dev 0.4381
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

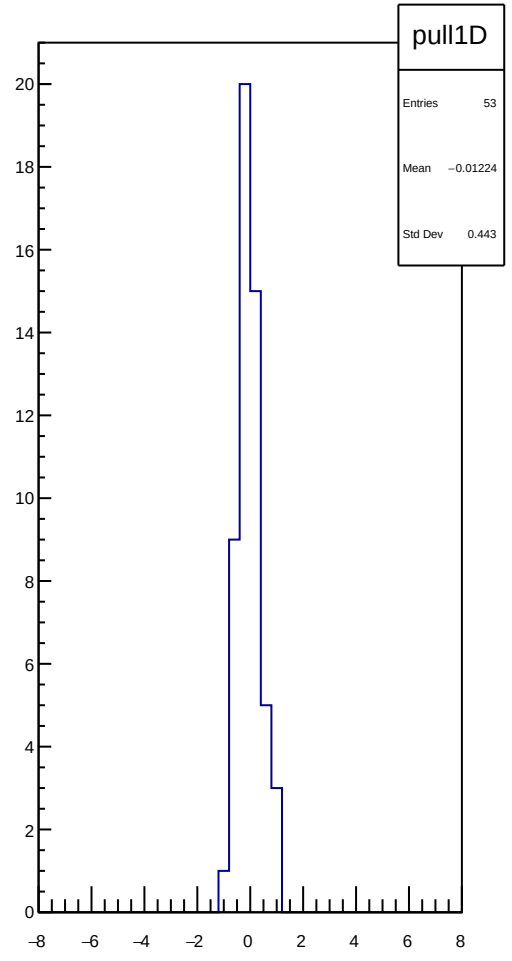

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.551e+04 / 52
p0 184.7 ± 0.1825
240
220
200
180
160
140

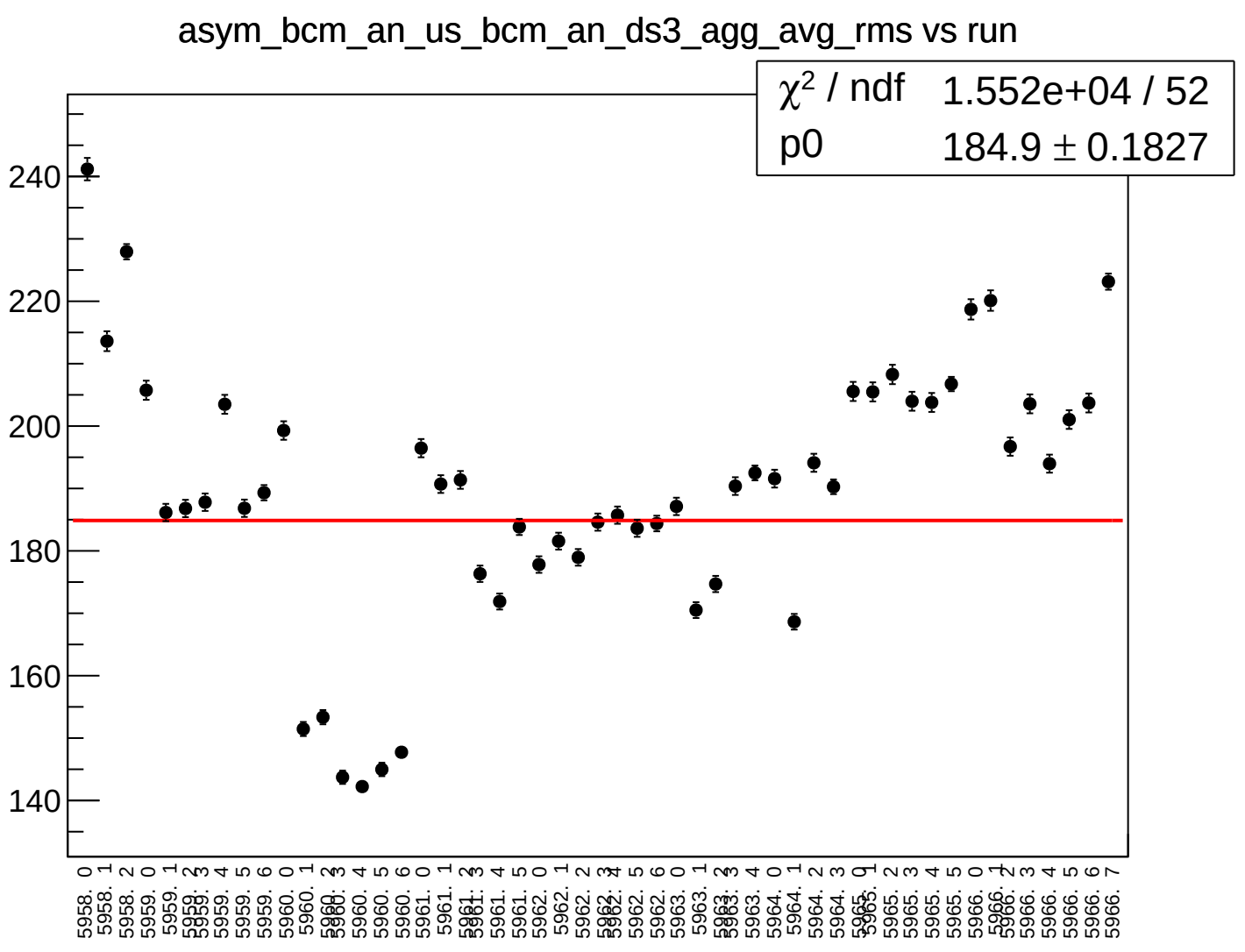

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 43.48 / 52
p0 −28.72 ± 17.92
400
200
0
−200
−400
pull
Entries 53
Mean 207.6
Std Dev 183.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

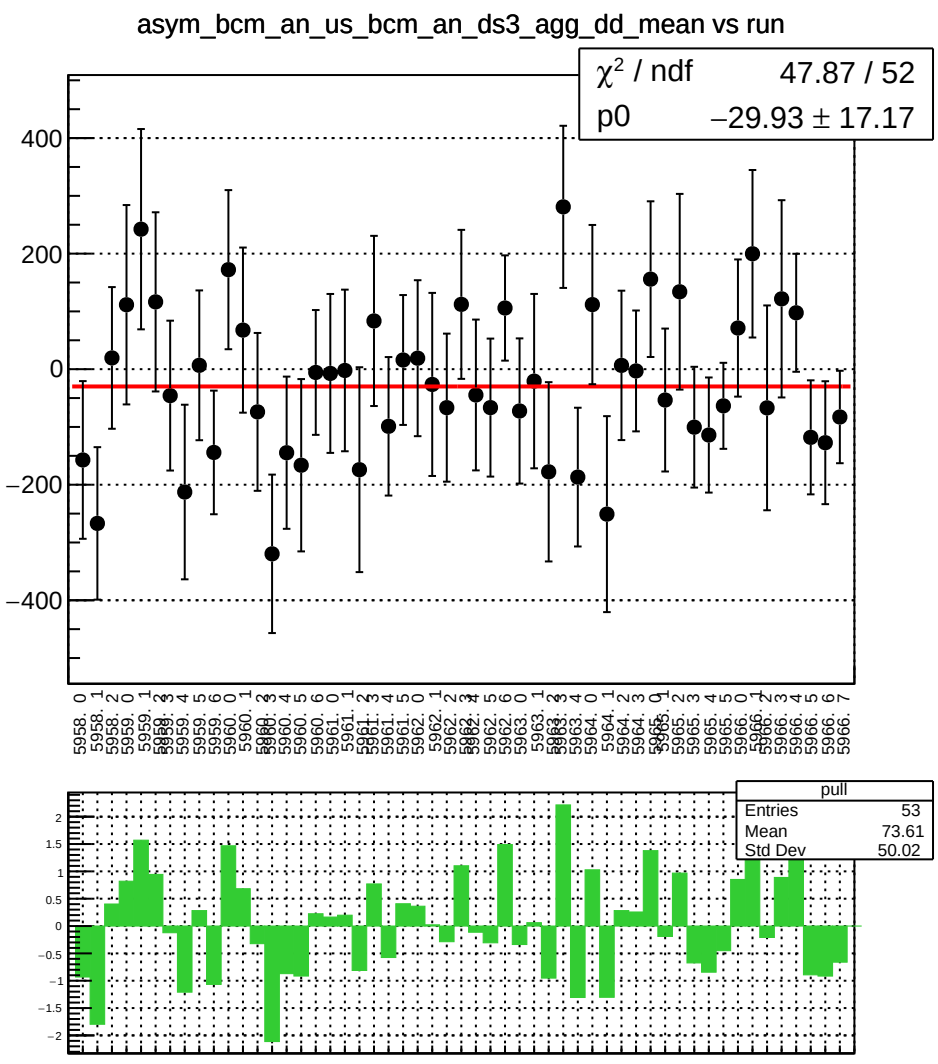

pull1D
Entries 53
Mean 0.01187
Std Dev 0.9057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

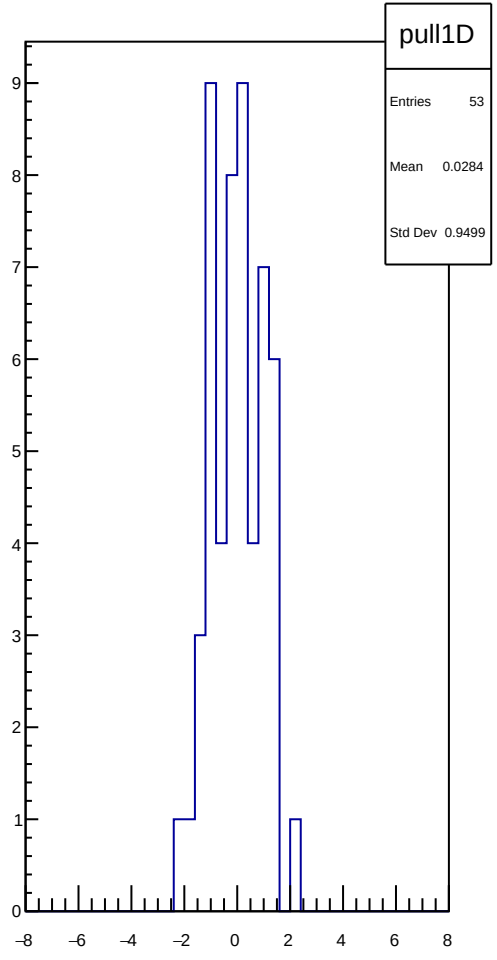

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.46e+04 / 52
p0 12.77 ± 0.01267
18
17
16
15
14
13
12
11
10

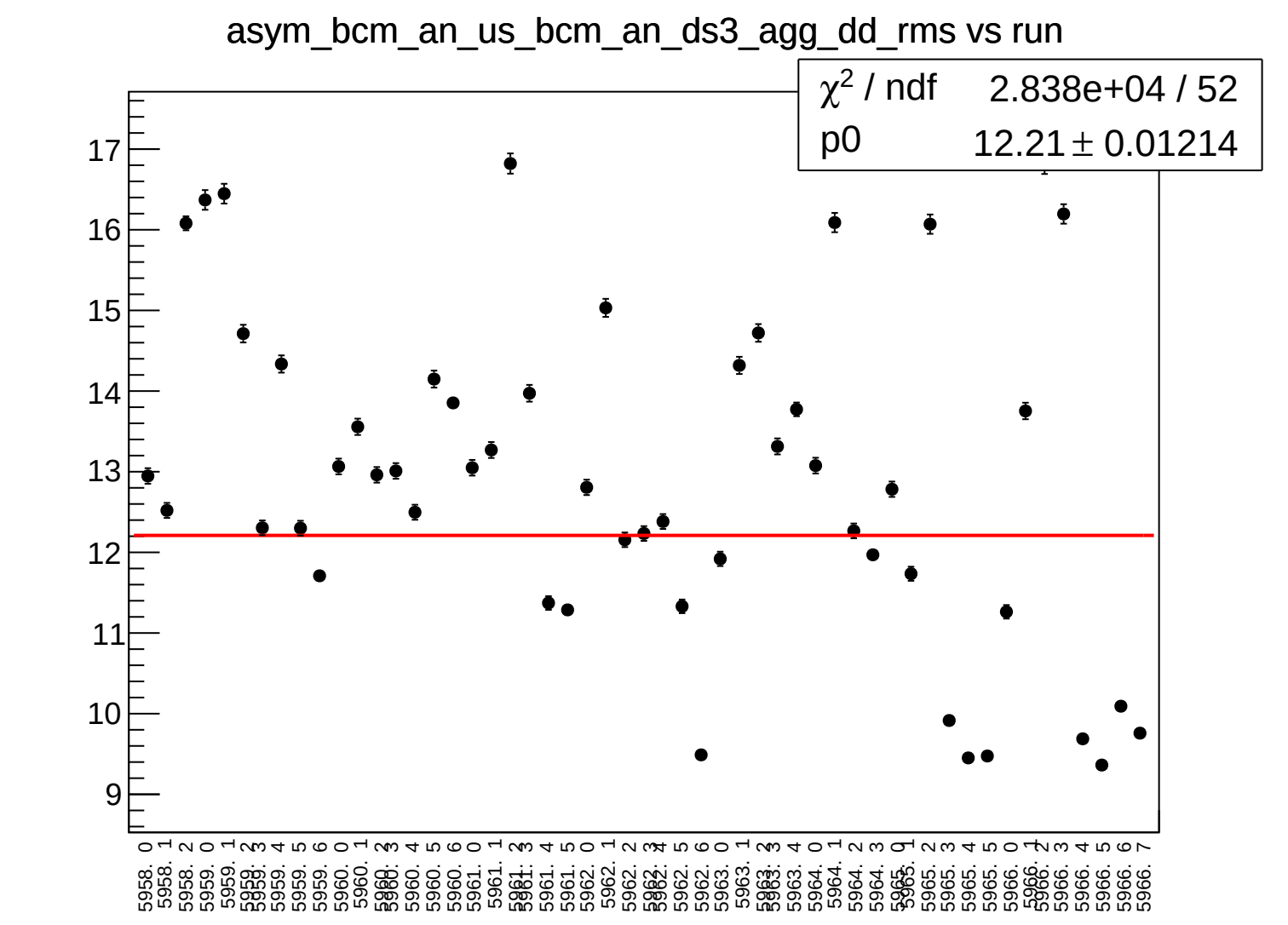

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 10.41 / 52
p0 272.2 ± 258.3
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 63.23
Std Dev 5.221
1
0.5
0
−0.5
−1

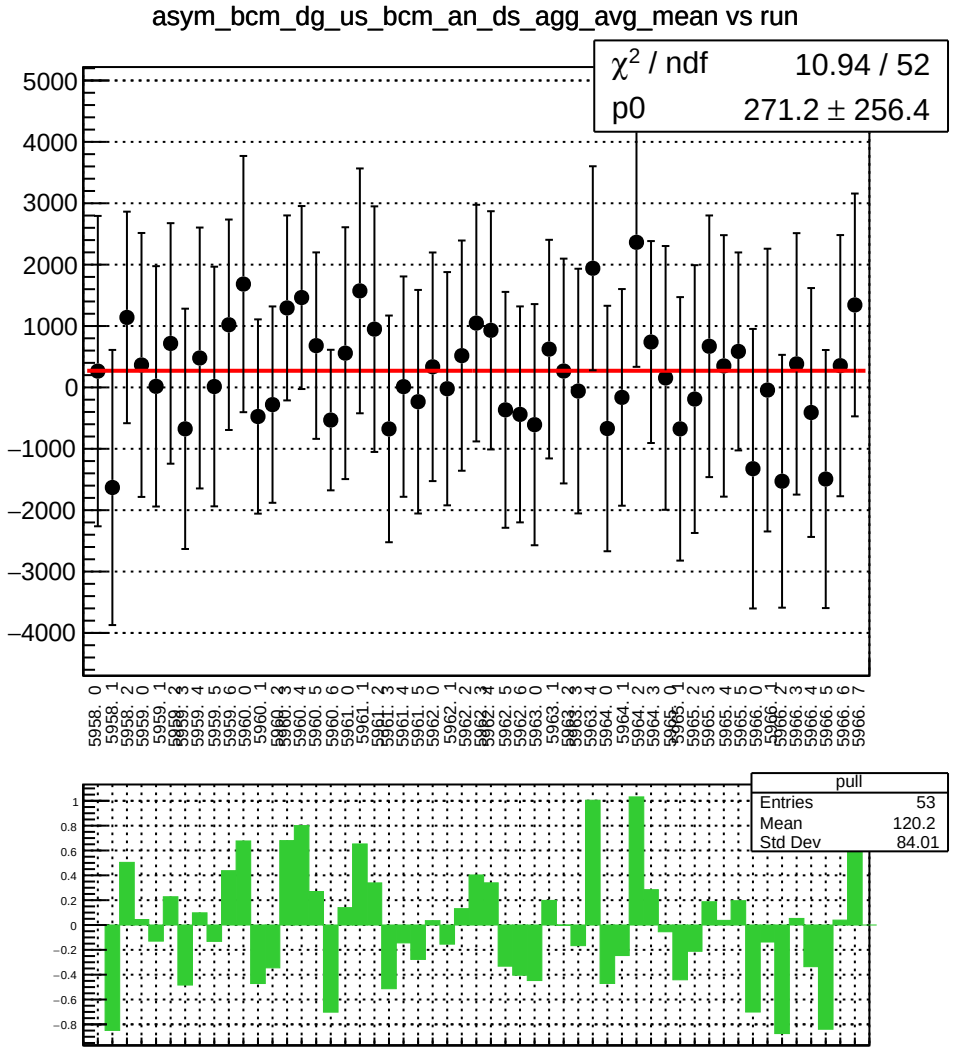

pull1D
Entries 53
Mean −0.01224
Std Dev 0.443
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

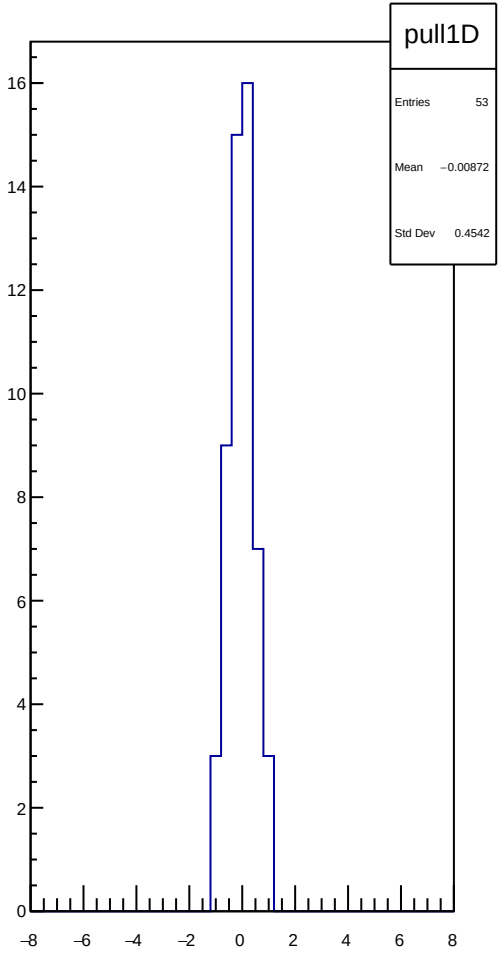

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.552e+04 / 52
p0 184.9 ± 0.1827
240
220
200
180
160
140
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

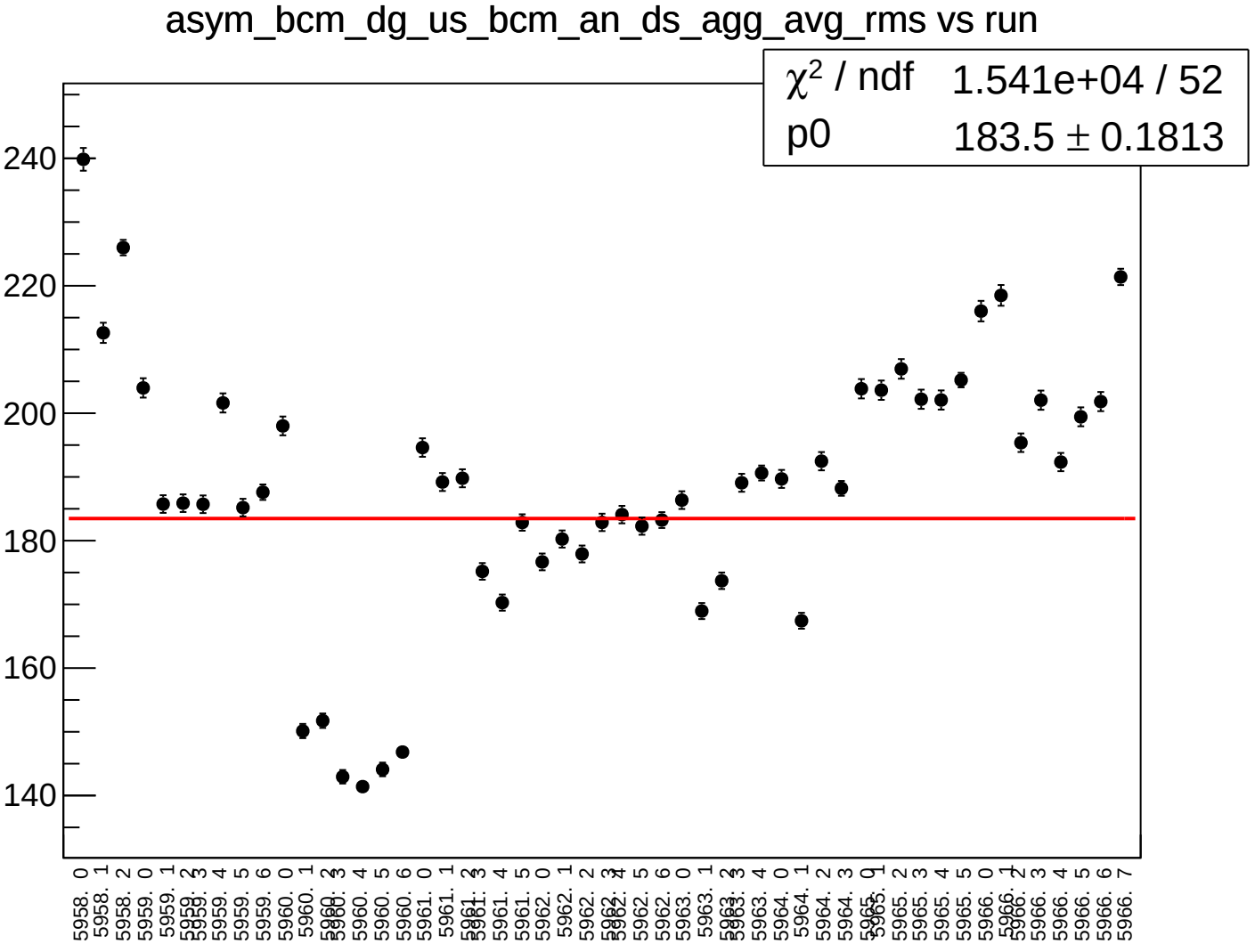

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 47.87 / 52
p0 −29.93 ± 17.17
400
200
0
−200
−400
pull
Entries 53
Mean 73.61
Std Dev 50.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

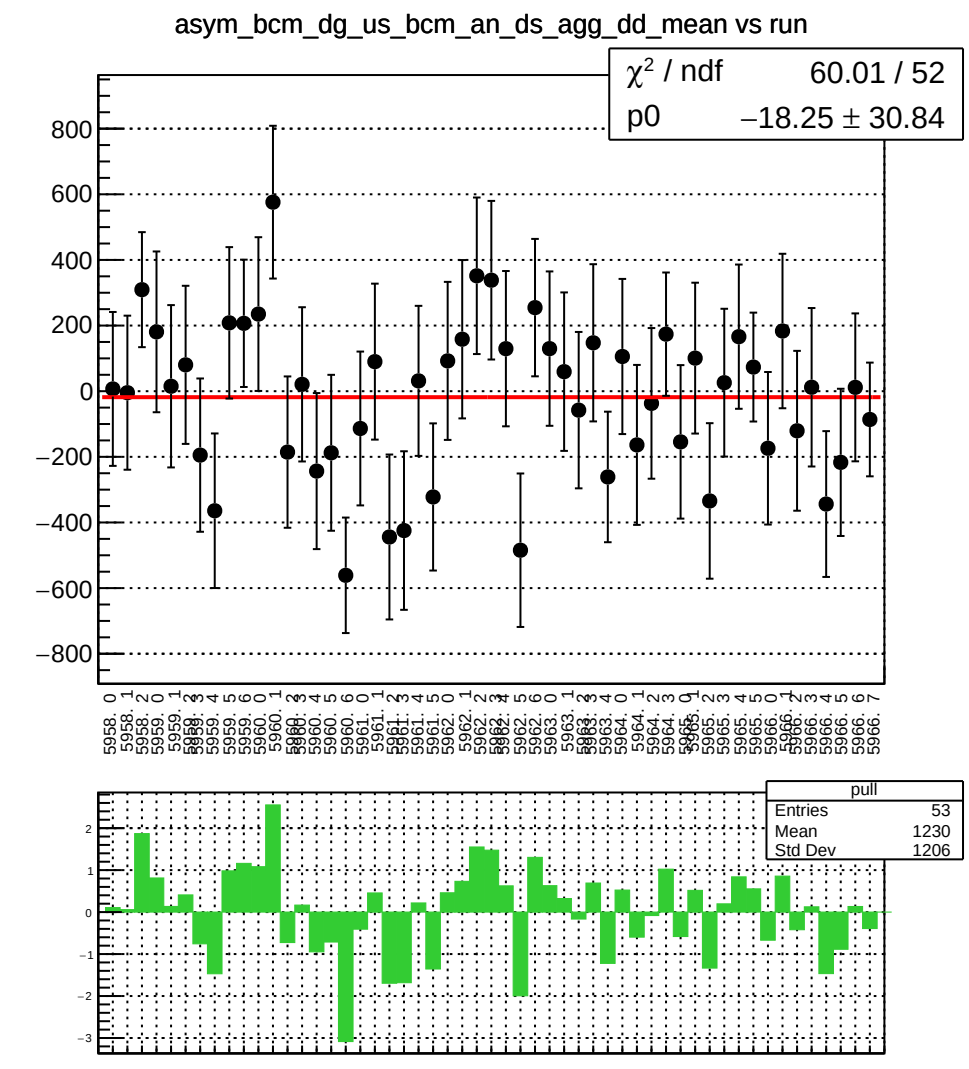

pull1D
Entries 53
Mean 0.0284
Std Dev 0.9499
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

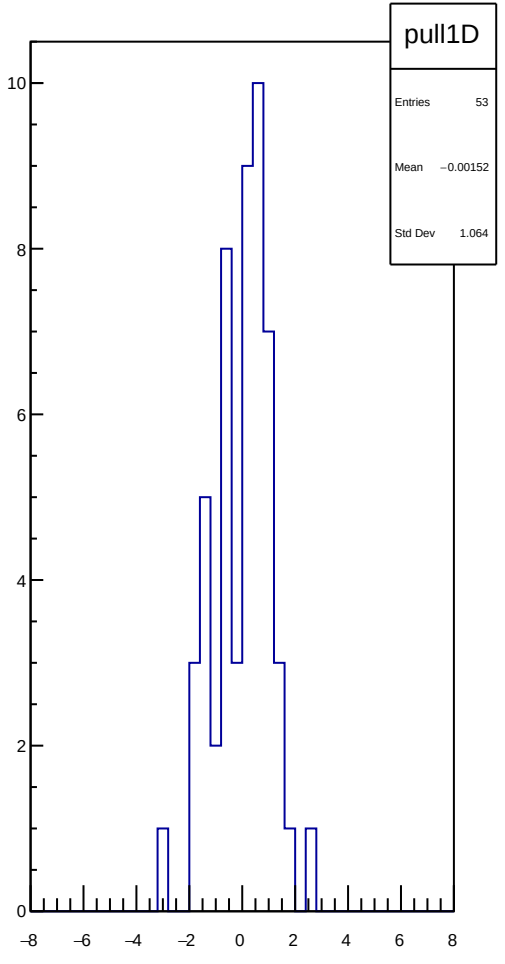

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 2.838e+04 / 52
p0 12.21 ± 0.01214
17
16
15
14
13
12
11
10
9

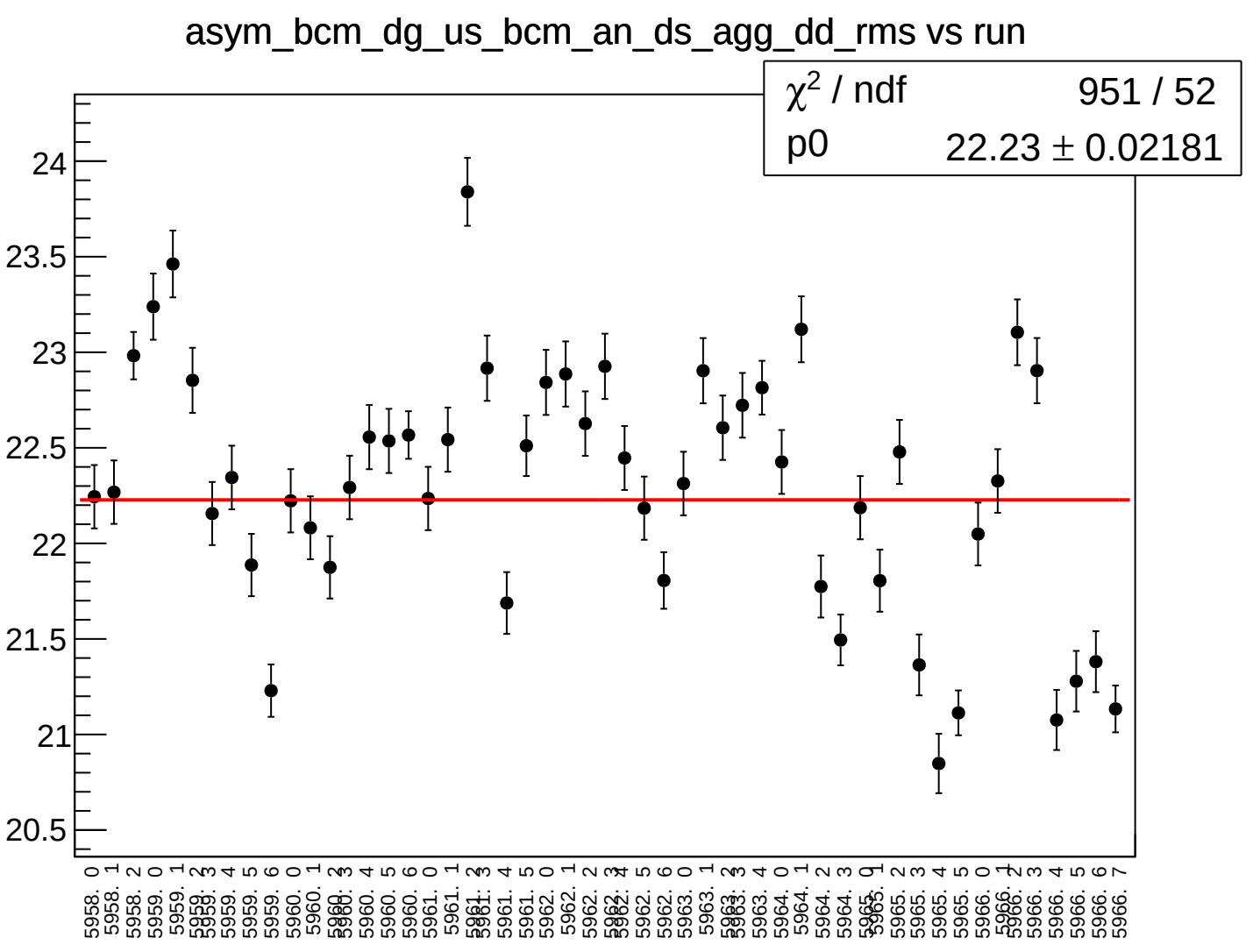

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.94 / 52
p0 271.2 ± 256.4
pull
Entries 53
Mean 120.2
Std Dev 84.01

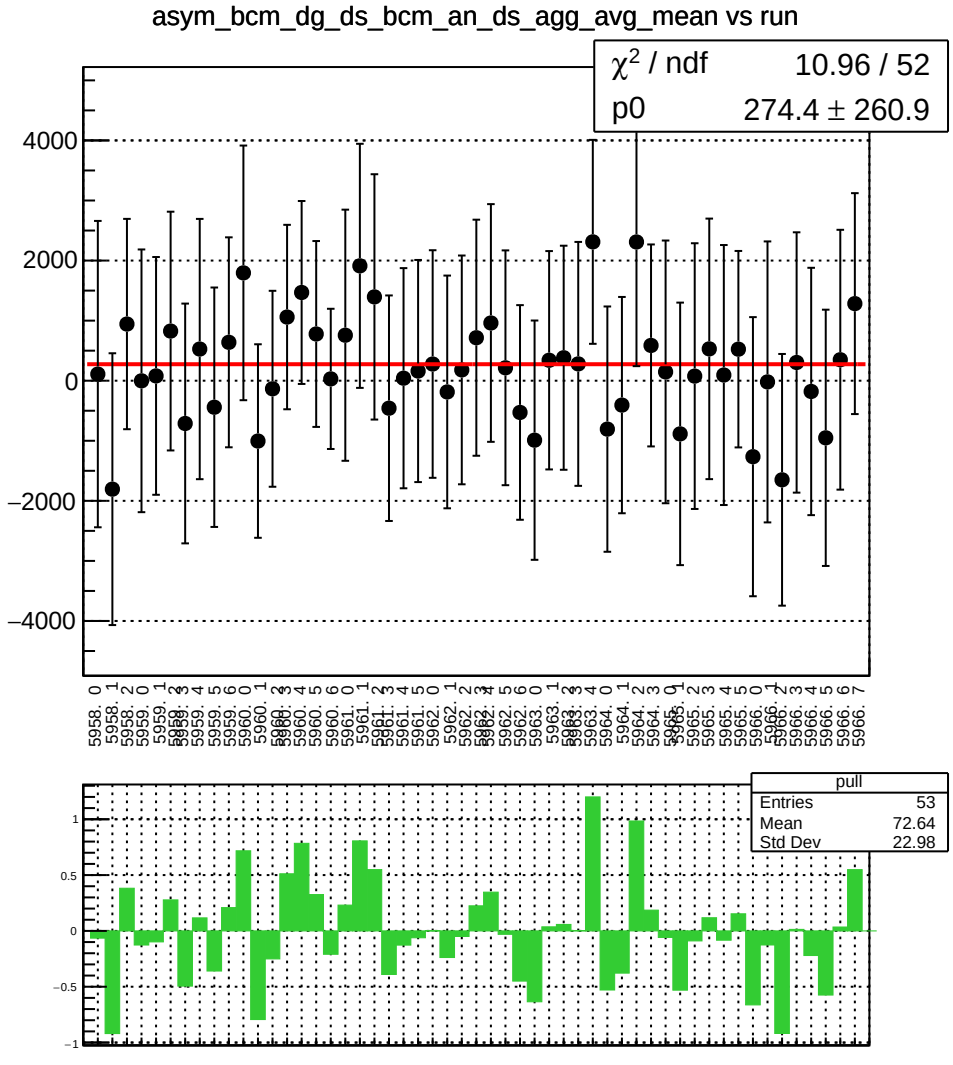

pull1D
Entries 53
Mean −0.00872
Std Dev 0.4542

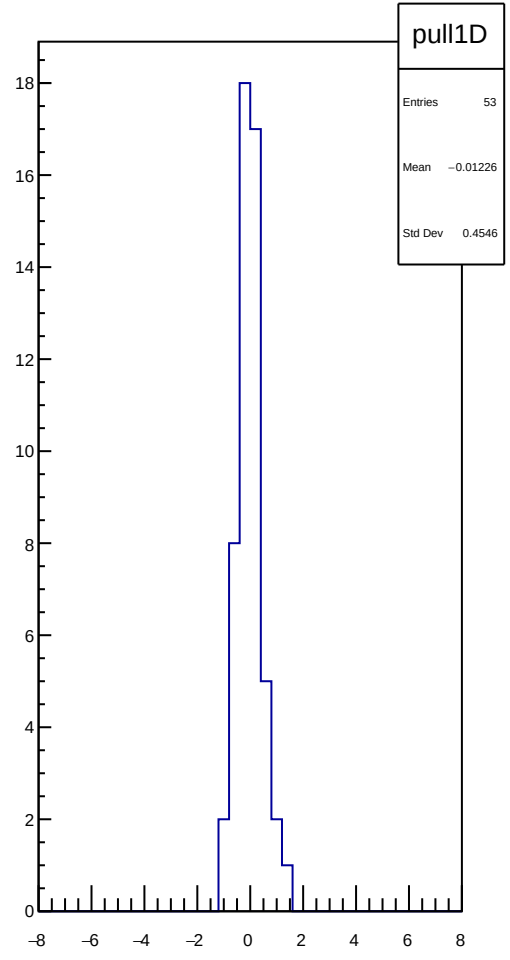

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.541e+04 / 52
p0 183.5 ± 0.1813
240
220
200
180
160
140

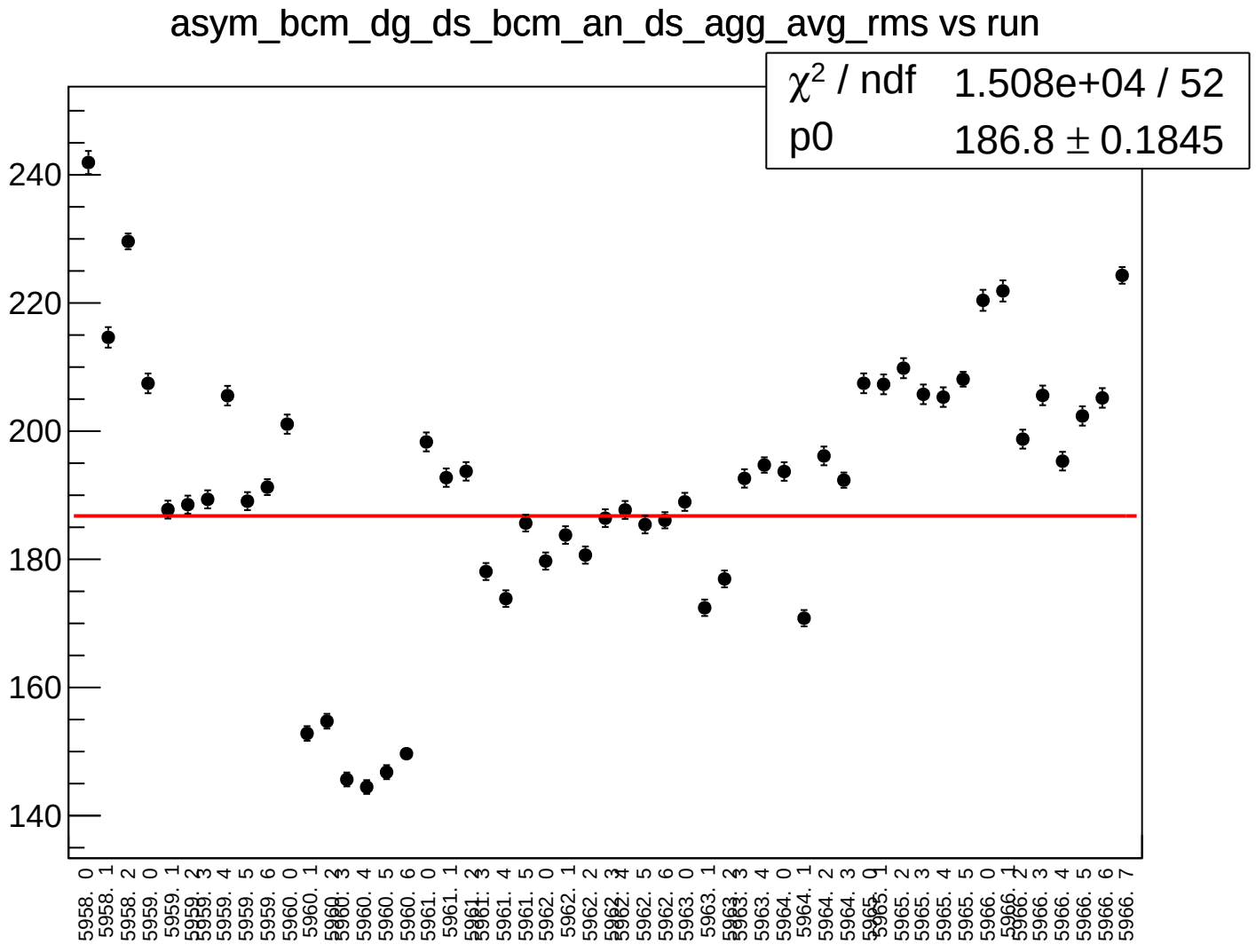

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 60.01 / 52
p0 −18.25 ± 30.84
pull
Entries 53
Mean 1230
Std Dev 1206

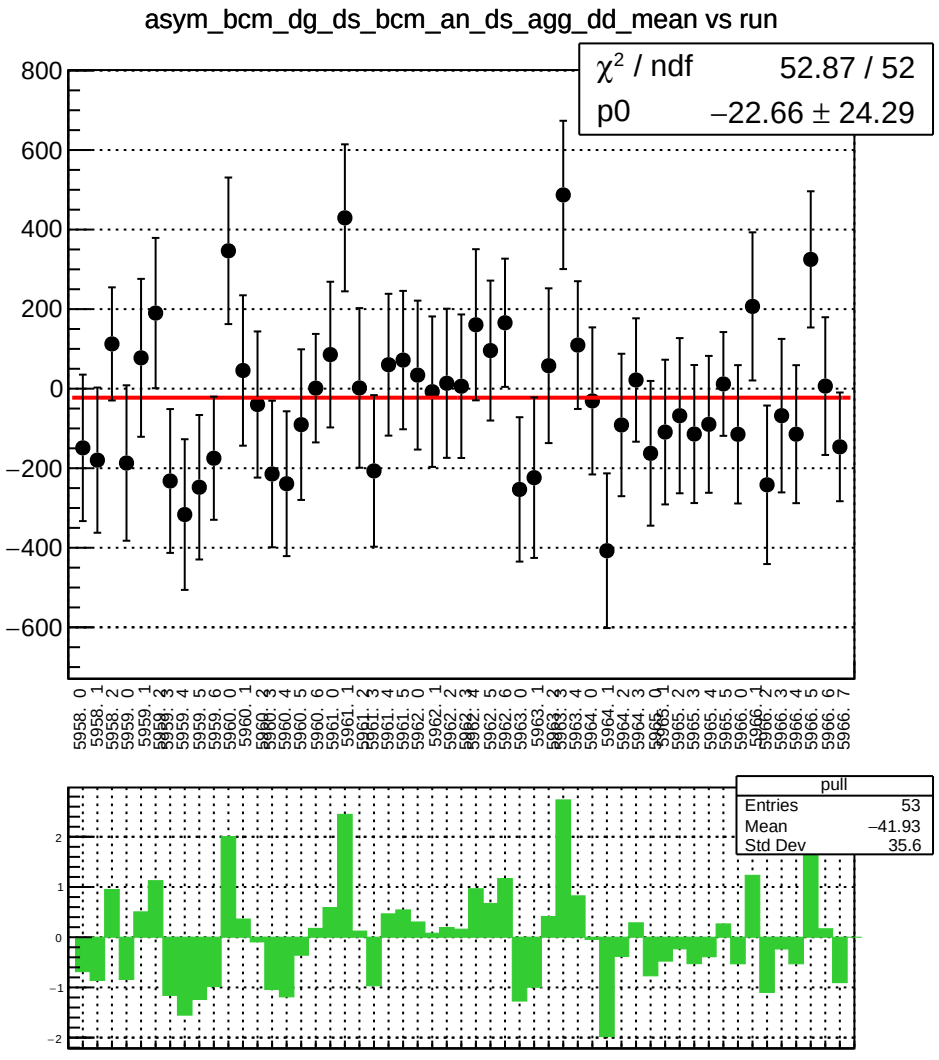

pull1D
Entries 53
Mean −0.00152
Std Dev 1.064

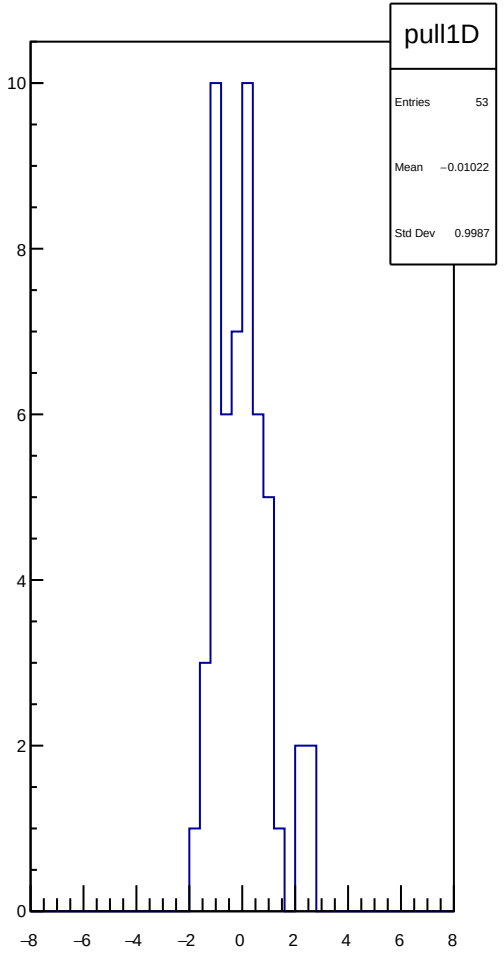

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 951 / 52
p0 22.23 ± 0.02181
24
23.5
23
22.5
22
21.5
21
20.5

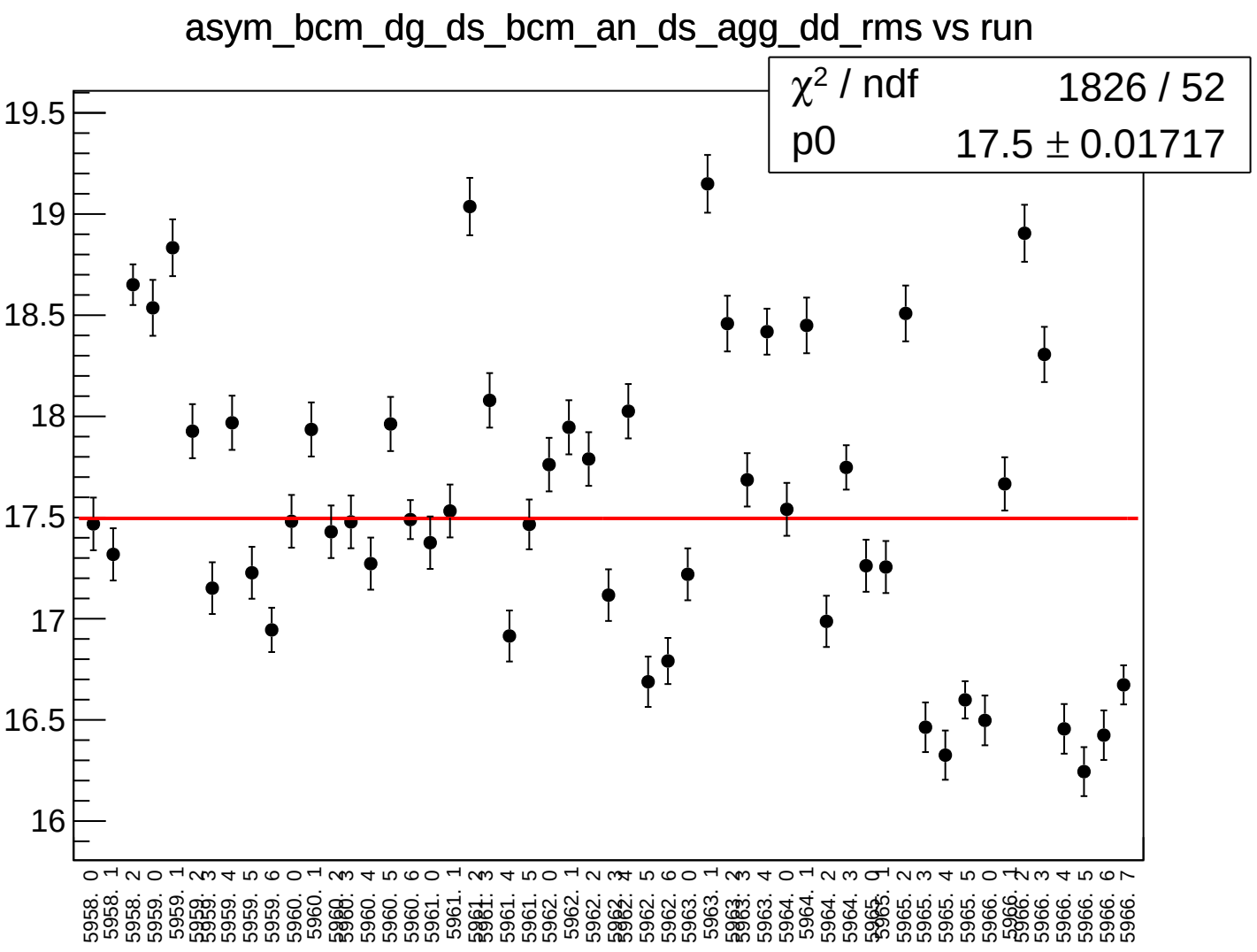

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.96 / 52
p0 274.4 ± 260.9
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 72.64
Std Dev 22.98
1
0.5
0
−0.5
−1

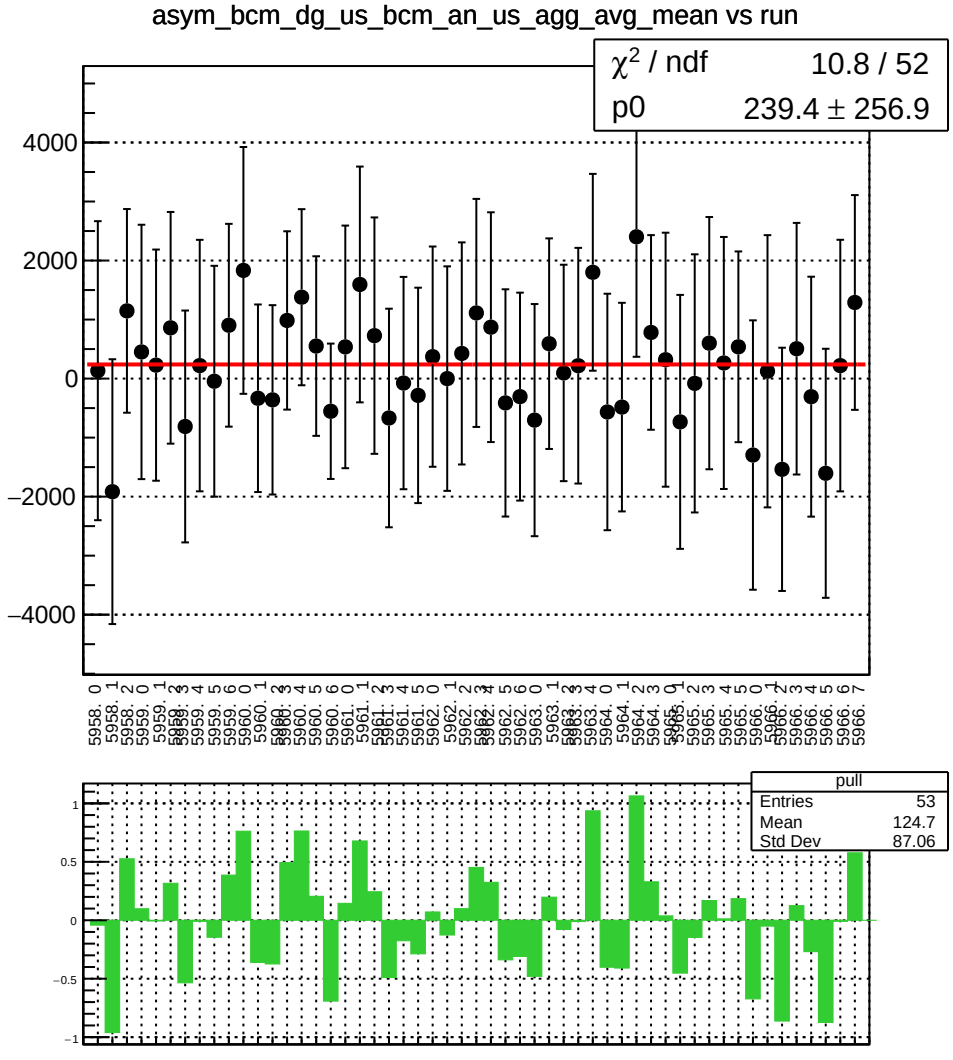

pull1D
Entries 53
Mean −0.01226
Std Dev 0.4546
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

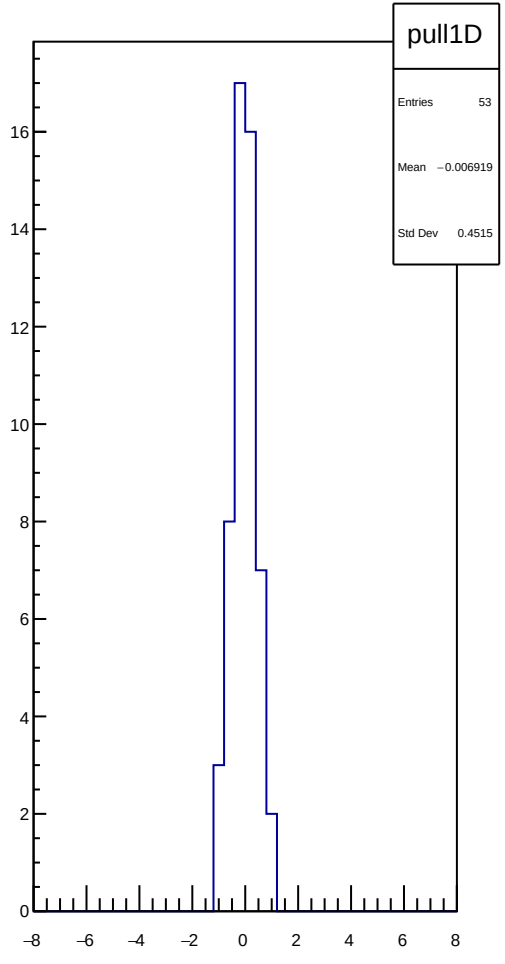

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.508e+04 / 52
p0 186.8 ± 0.1845
240
220
200
180
160
140

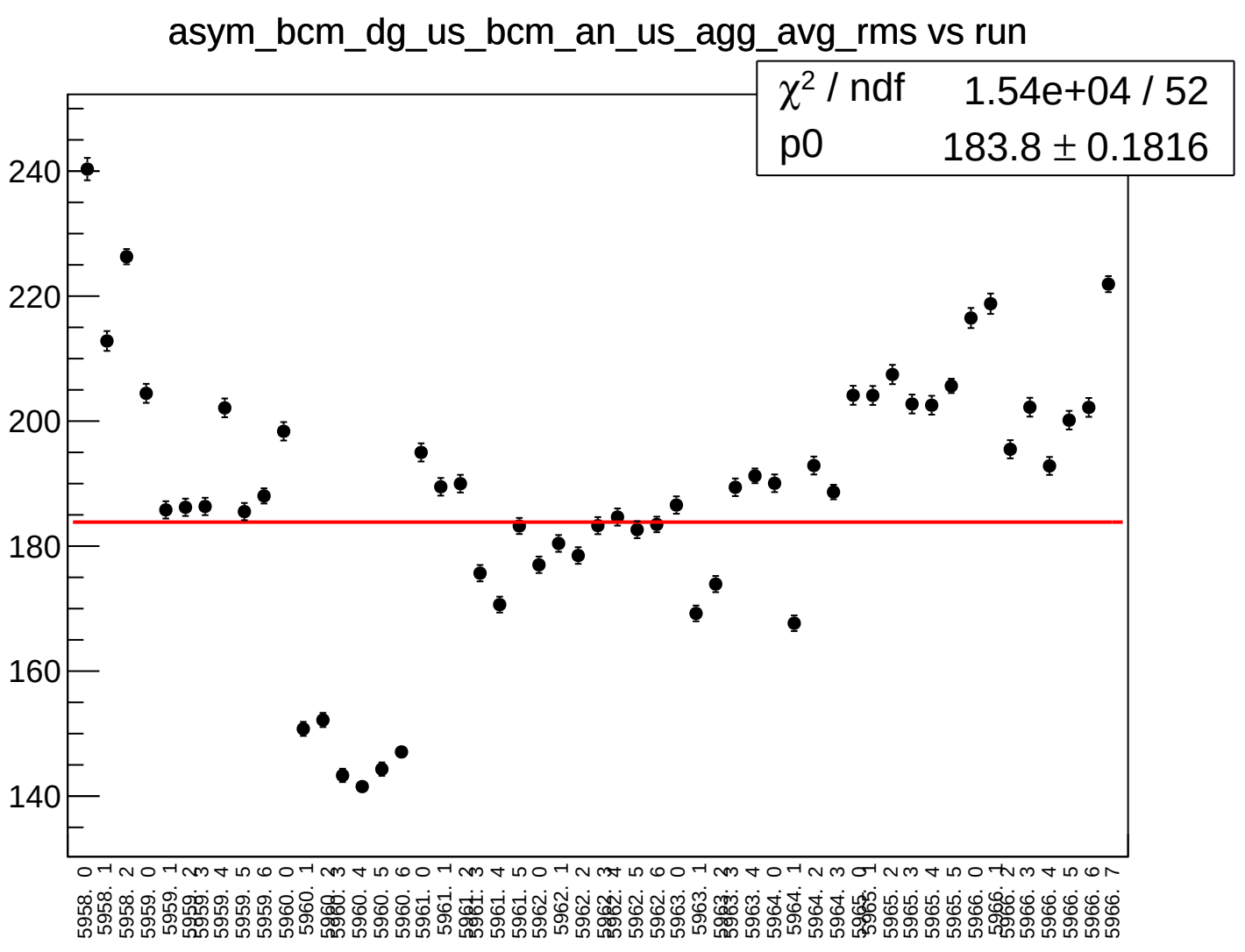

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 52.87 / 52
p0 −22.66 ± 24.29
pull
Entries 53
Mean −41.93
Std Dev 35.6

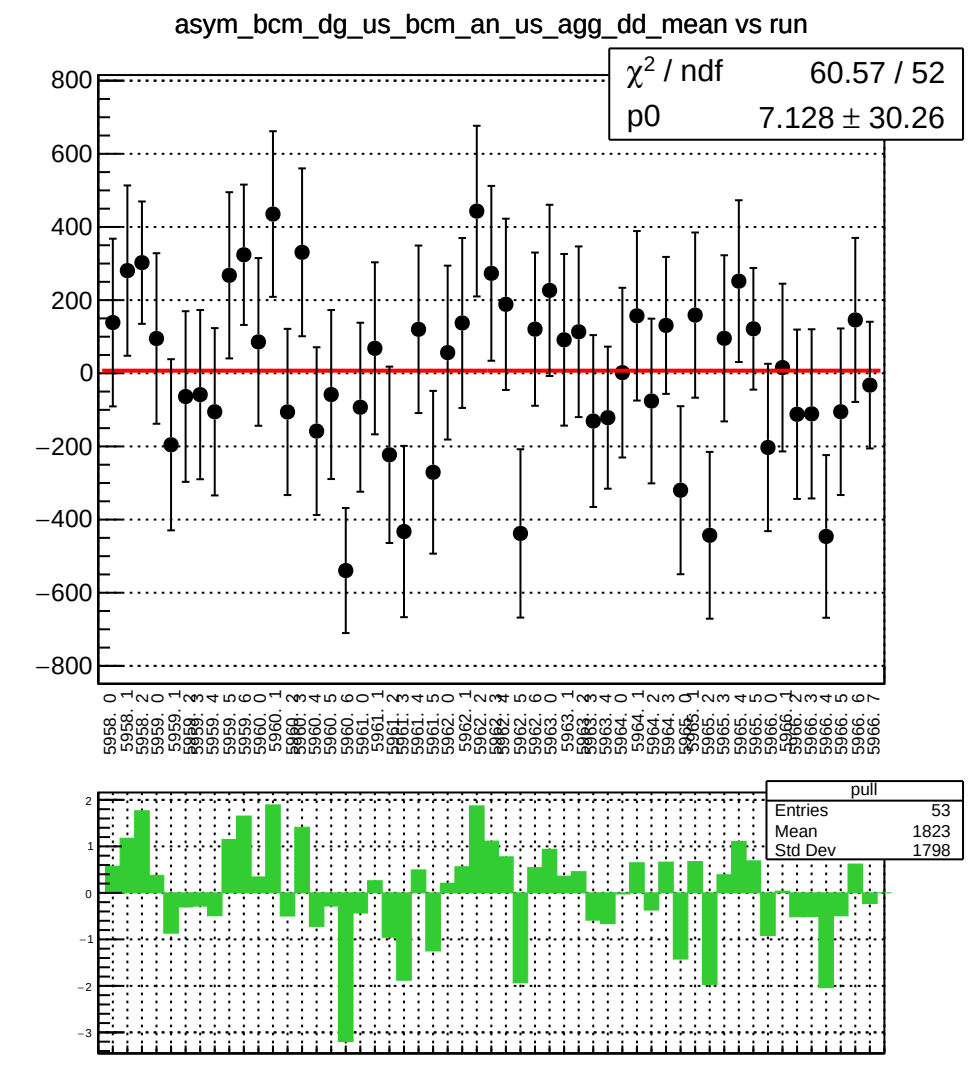

pull1D
Entries 53
Mean −0.01022
Std Dev 0.9987

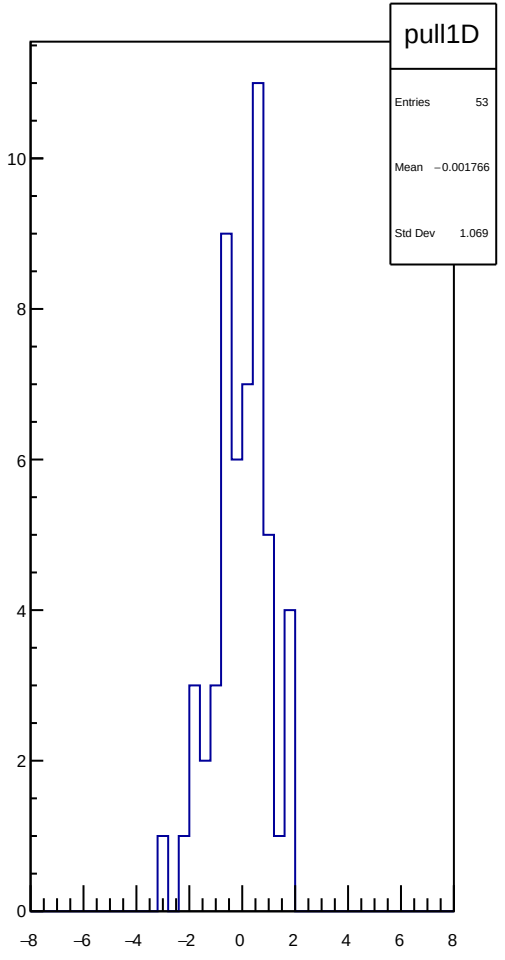

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1826 / 52
p0 17.5 ± 0.01717
19.5
19
18.5
18
17.5
17
16.5
16

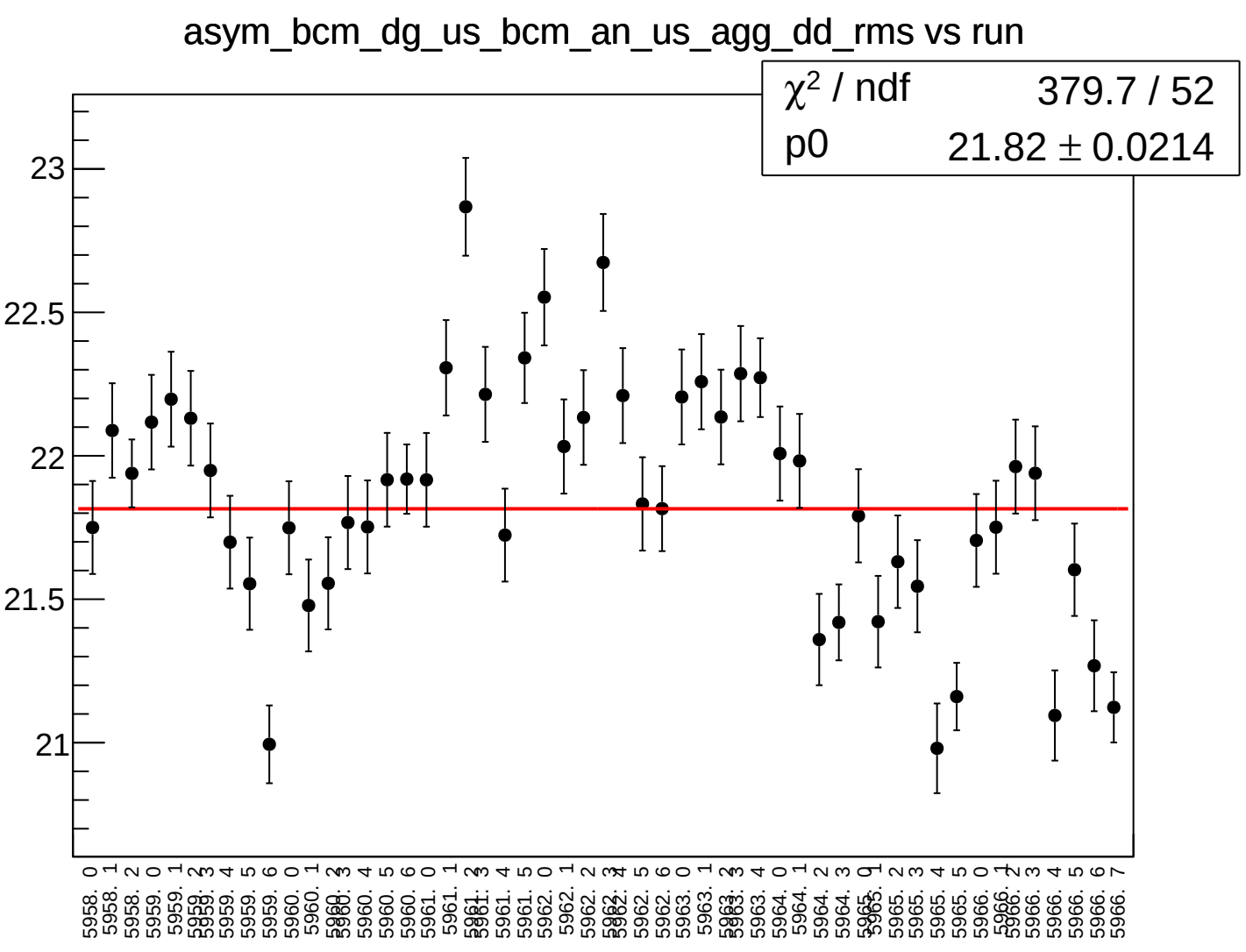

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.8 / 52
p0 239.4 ± 256.9
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 124.7
Std Dev 87.06
1
0.5
0
−0.5
−1

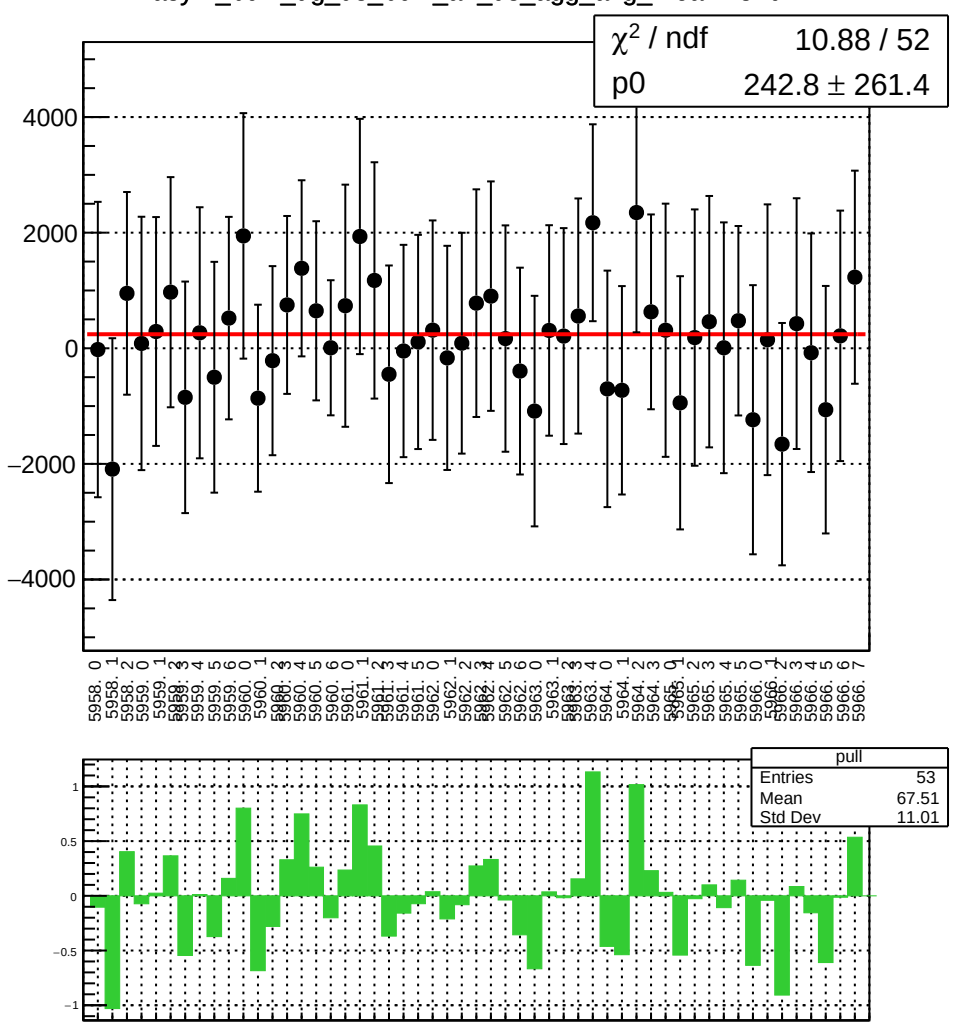

pull1D
Entries 53
Mean −0.006919
Std Dev 0.4515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

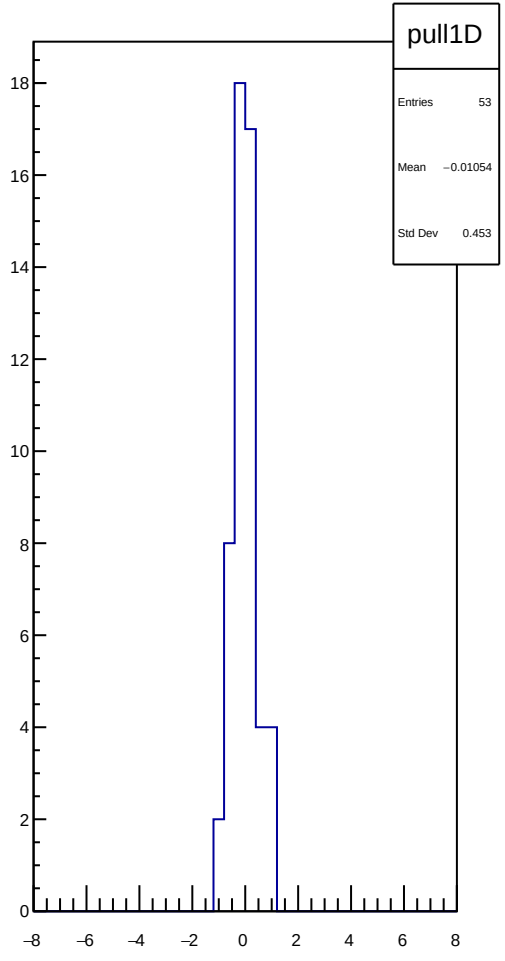

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.54e+04 / 52
p0 183.8 ± 0.1816
240
220
200
180
160
140

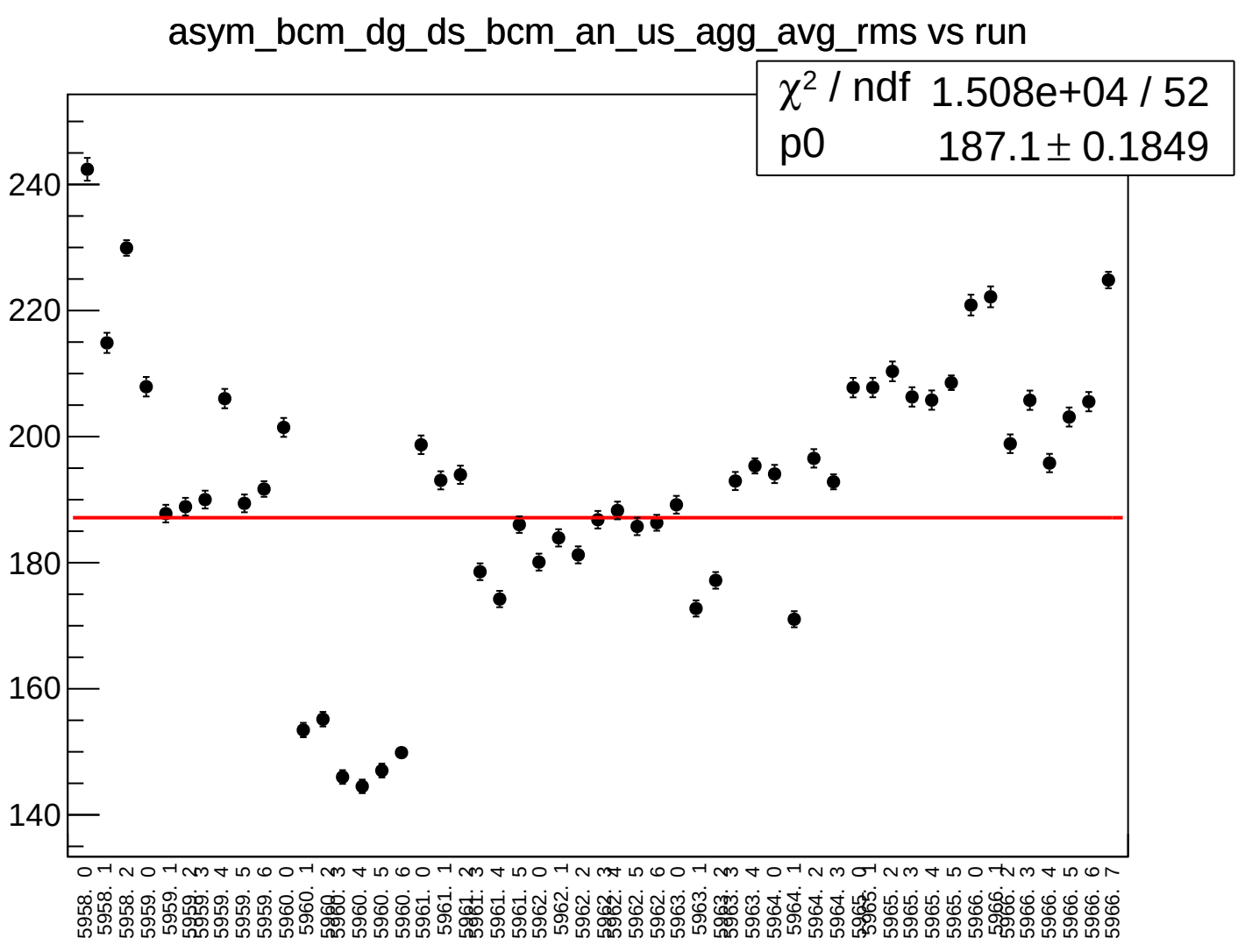

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 60.57 / 52
p0 7.128 ± 30.26
pull
Entries 53
Mean 1823
Std Dev 1798

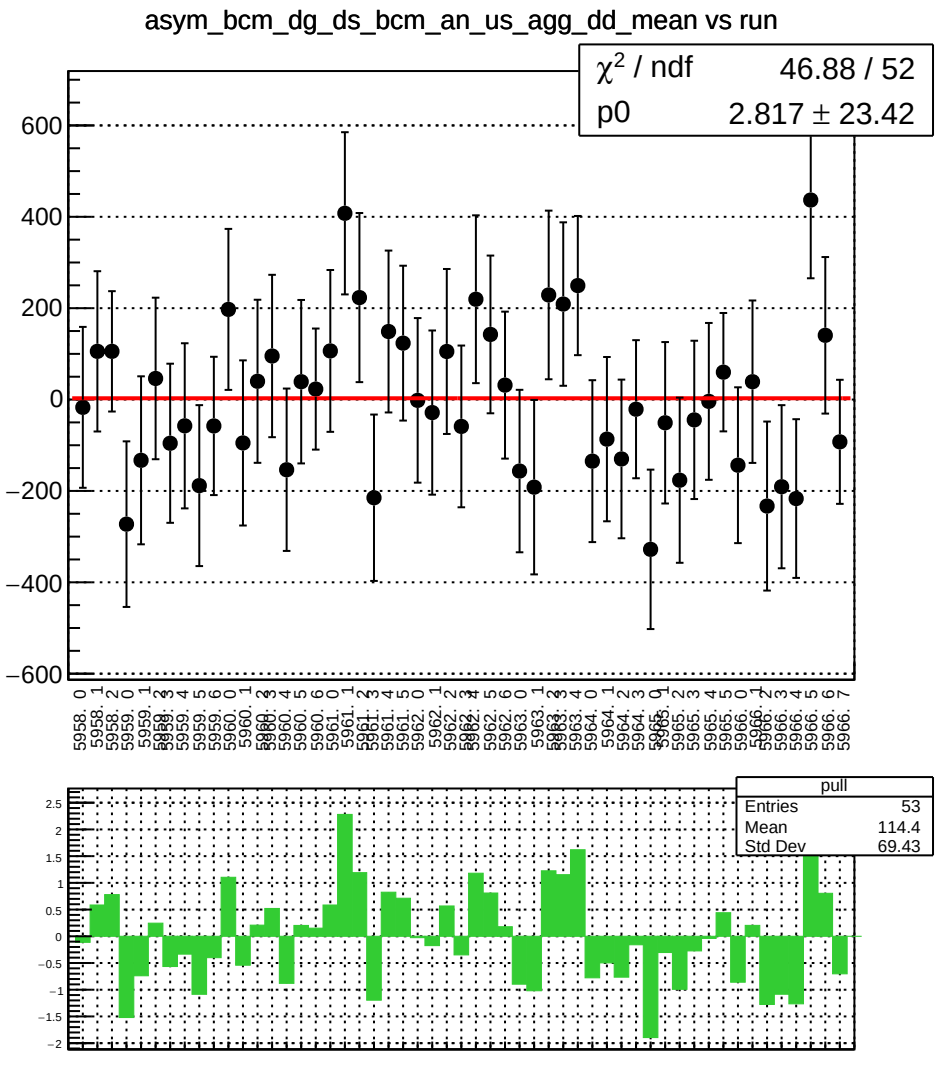

pull1D
Entries 53
Mean −0.001766
Std Dev 1.069

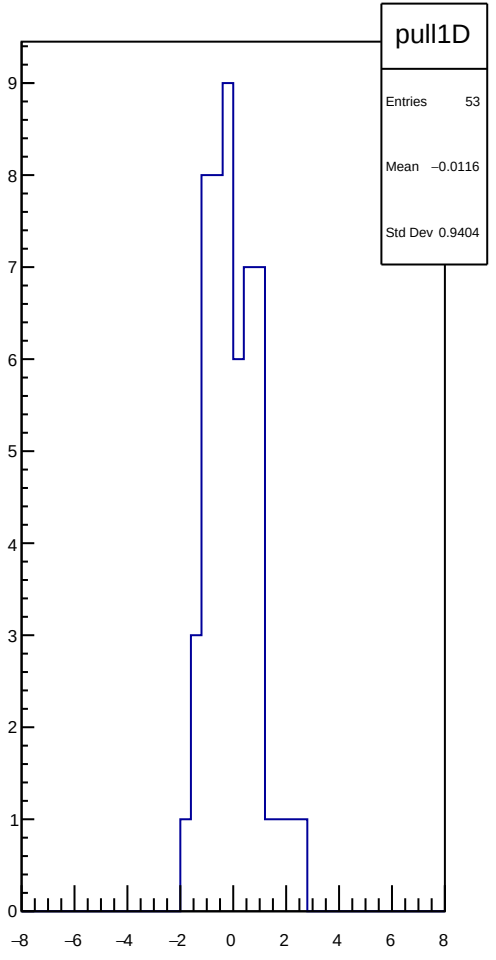

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 379.7 / 52
p0 21.82 ± 0.0214
23
22.5
22
21.5
21

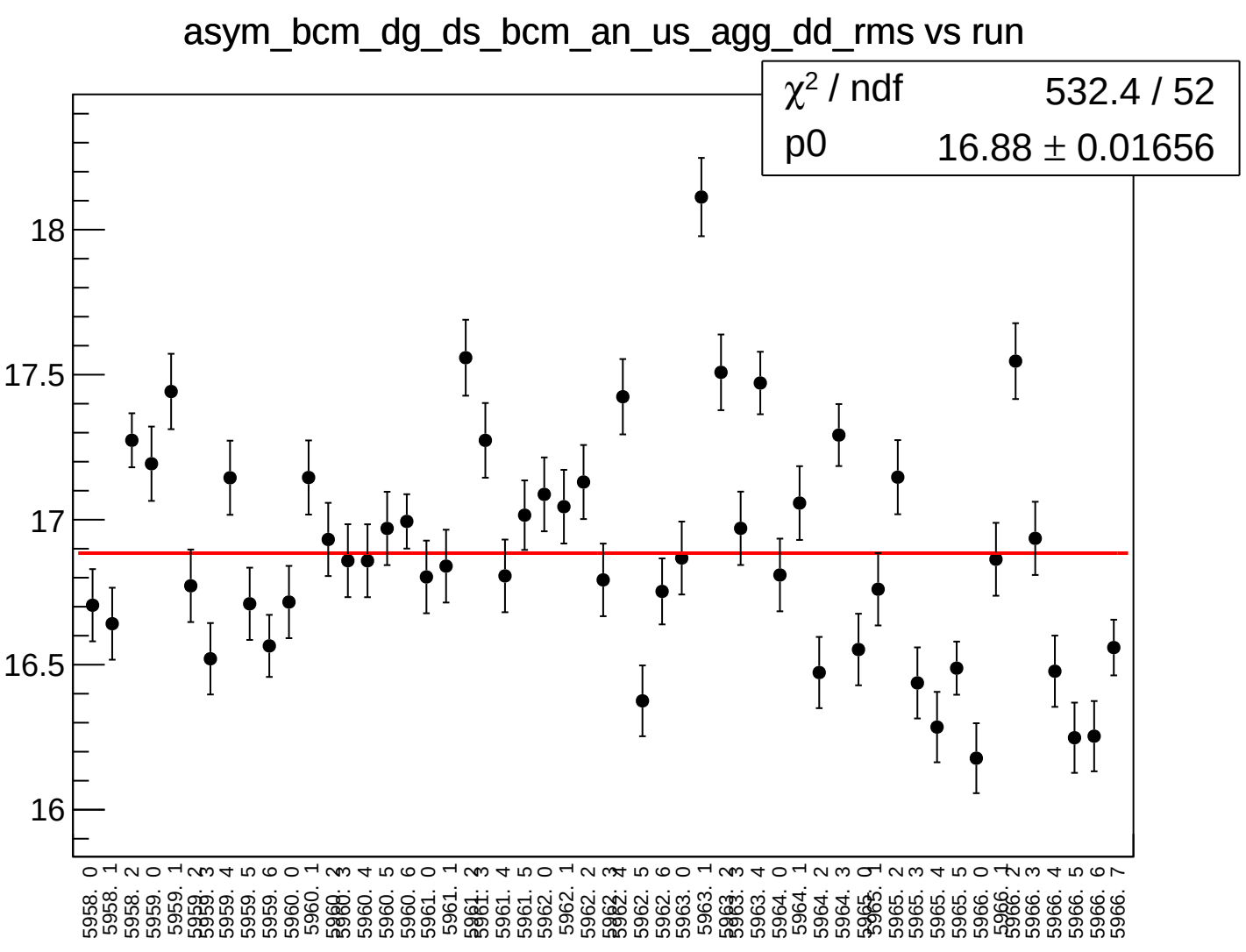

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.88 / 52
p0 242.8 ± 261.4
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 67.51
Std Dev 11.01
1
0.5
0
−0.5
−1

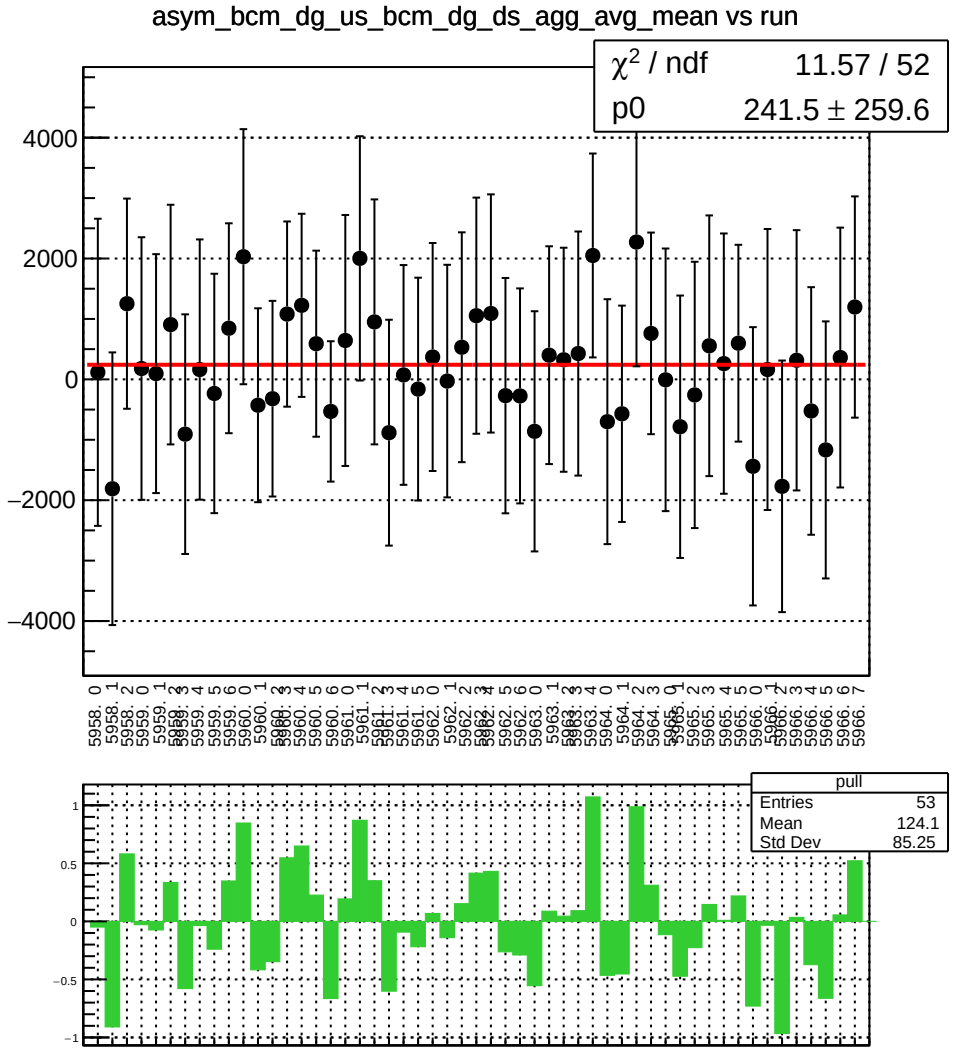

pull1D
Entries 53
Mean −0.01054
Std Dev 0.453
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

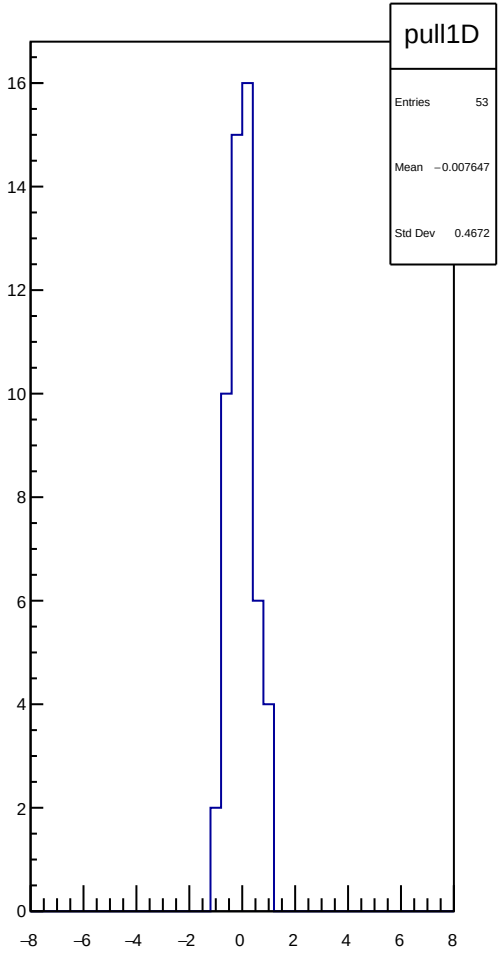

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.508e+04 / 52
p0 187.1 ± 0.1849
240
220
200
180
160
140

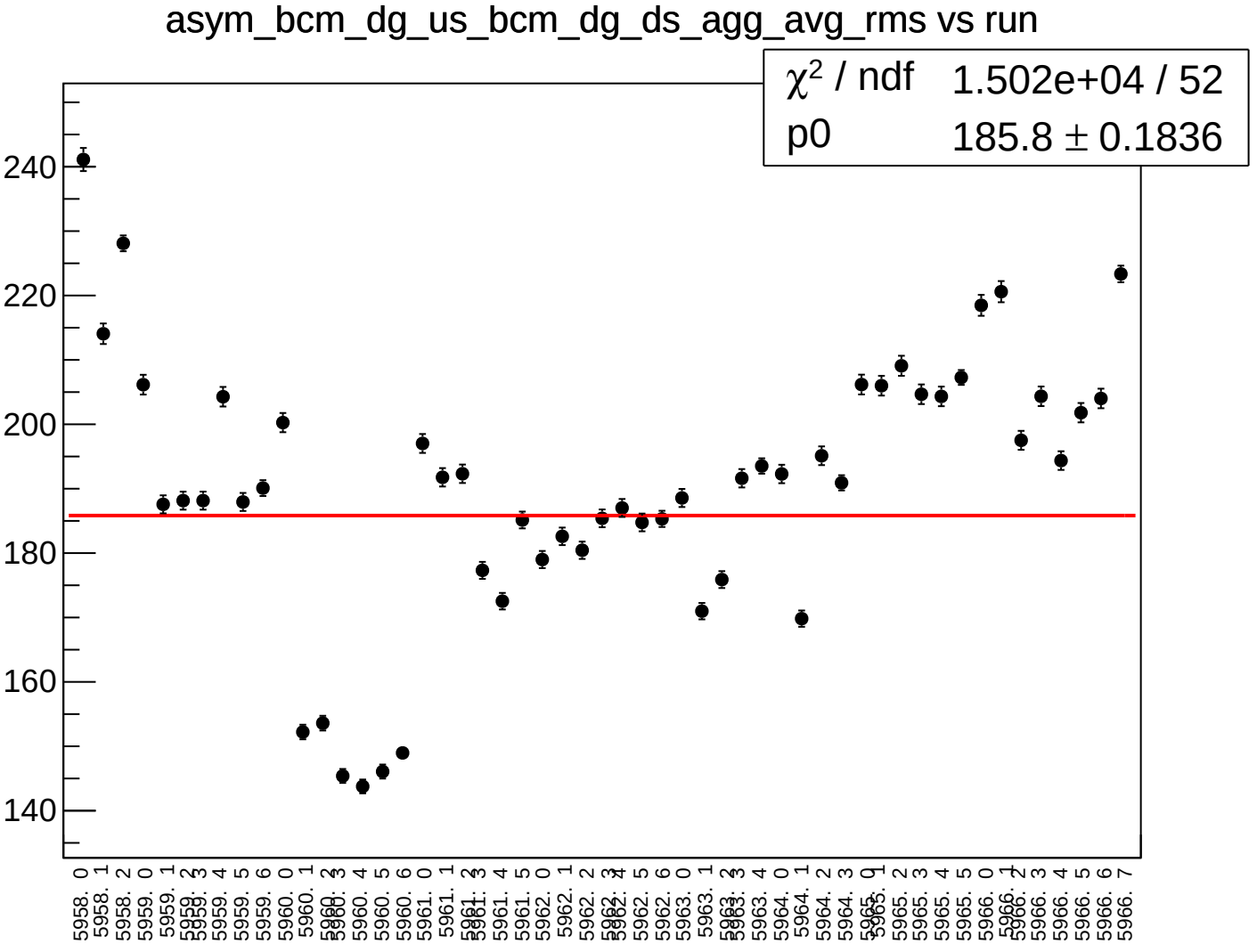

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 46.88 / 52
p0 2.817 ± 23.42
pull
Entries 53
Mean 114.4
Std Dev 69.43

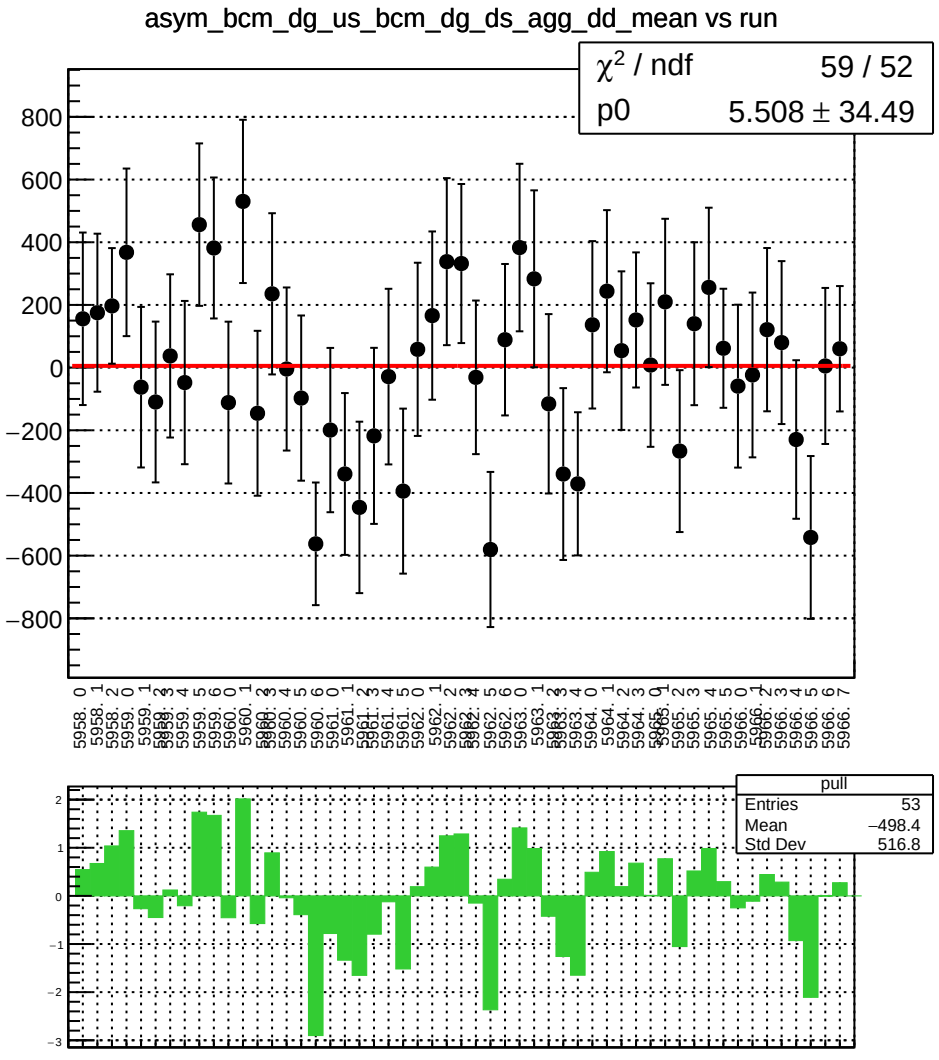

pull1D
Entries 53
Mean −0.0116
Std Dev 0.9404

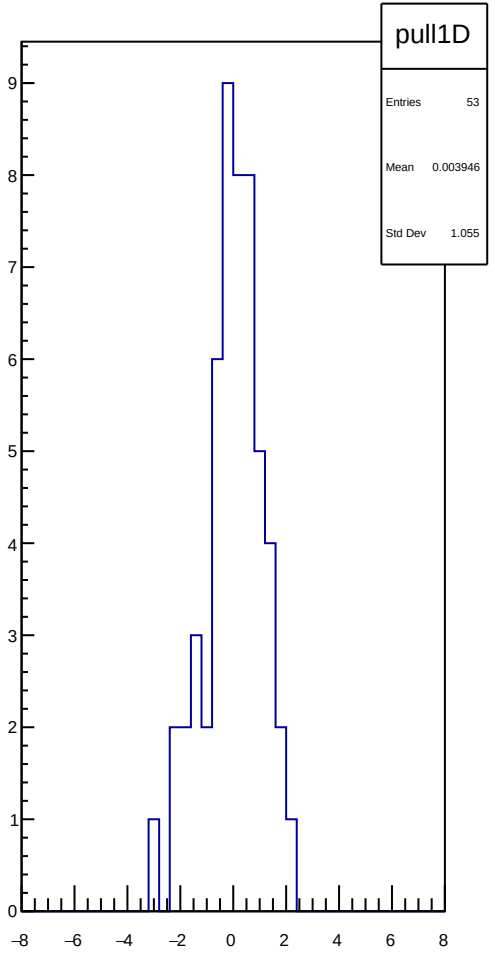

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 532.4 / 52
p0 16.88 ± 0.01656
18
17.5
17
16.5
16

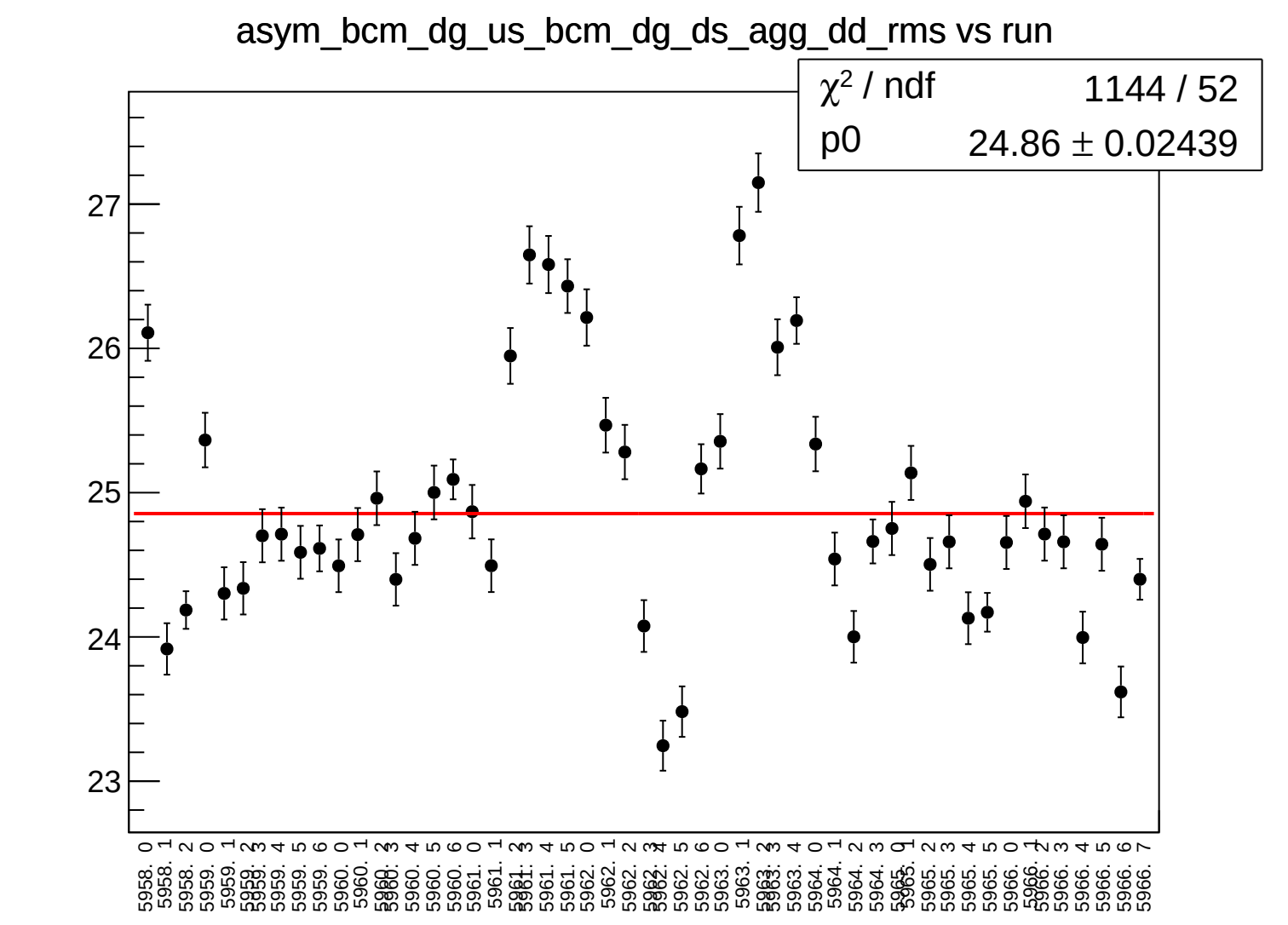

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 11.57 / 52
p0 241.5 ± 259.6
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 124.1
Std Dev 85.25
1
0.5
0
−0.5
−1

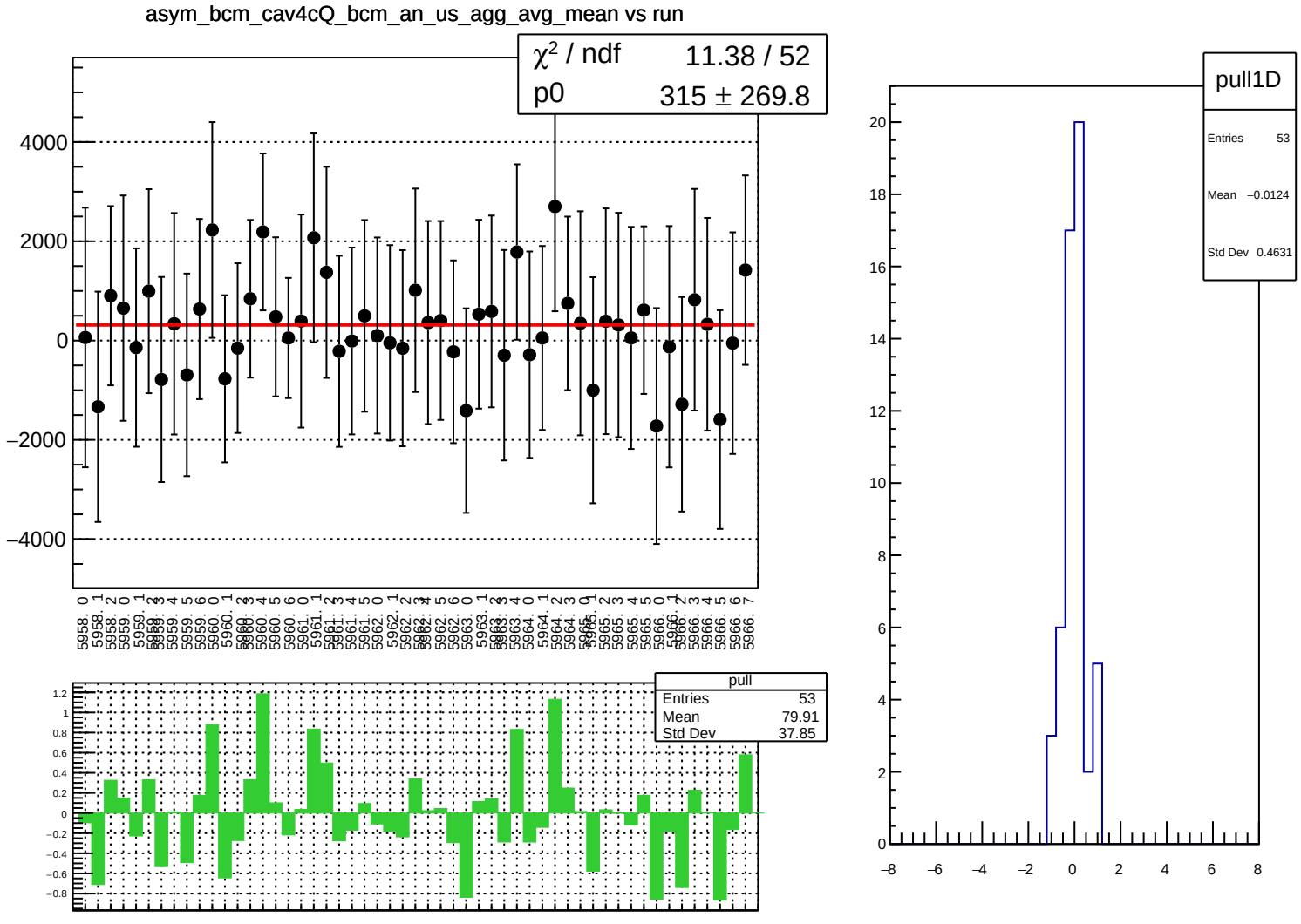

pull1D
Entries 53
Mean −0.007647
Std Dev 0.4672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

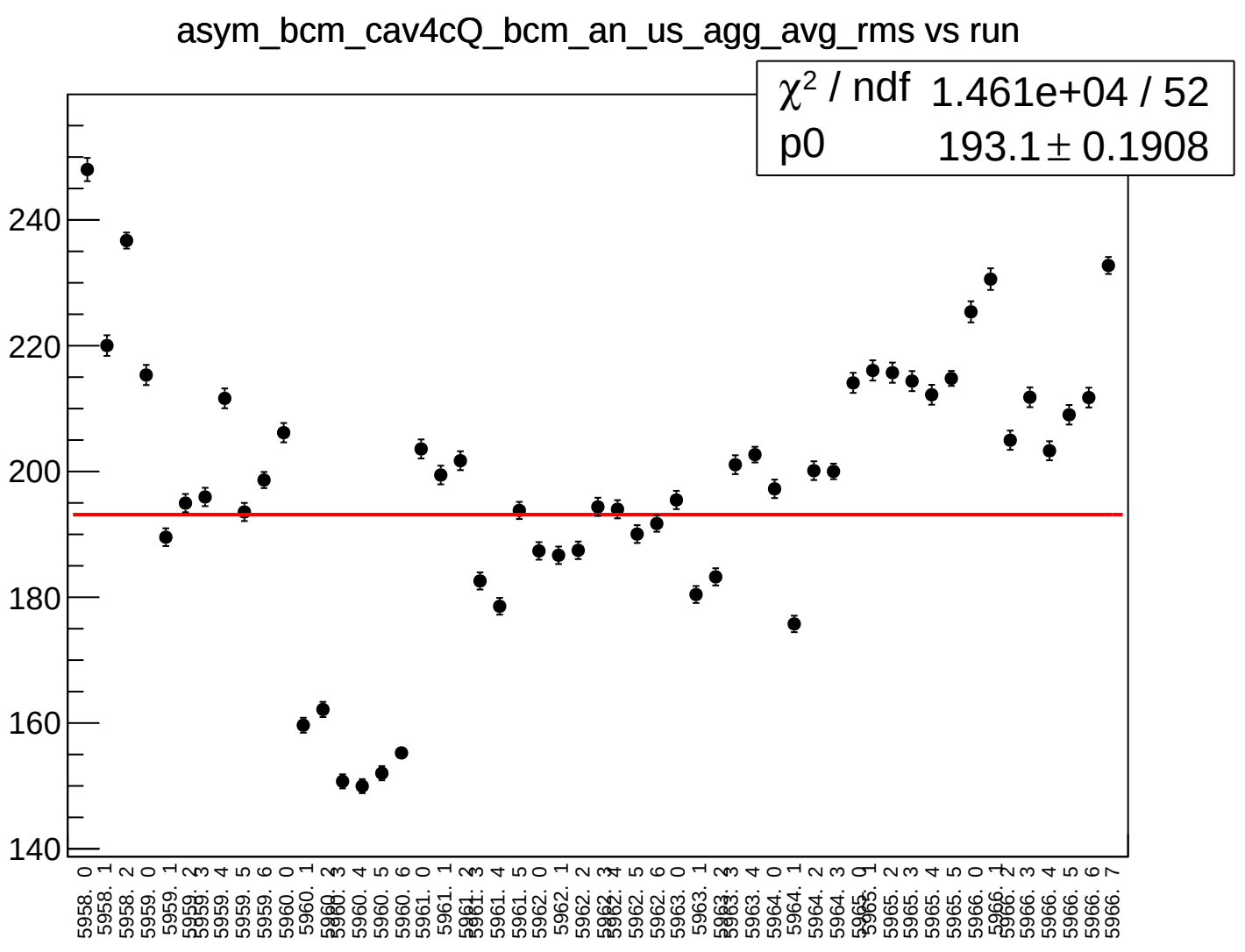

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.502e+04 / 52
p0 185.8 ± 0.1836
240
220
200
180
160
140

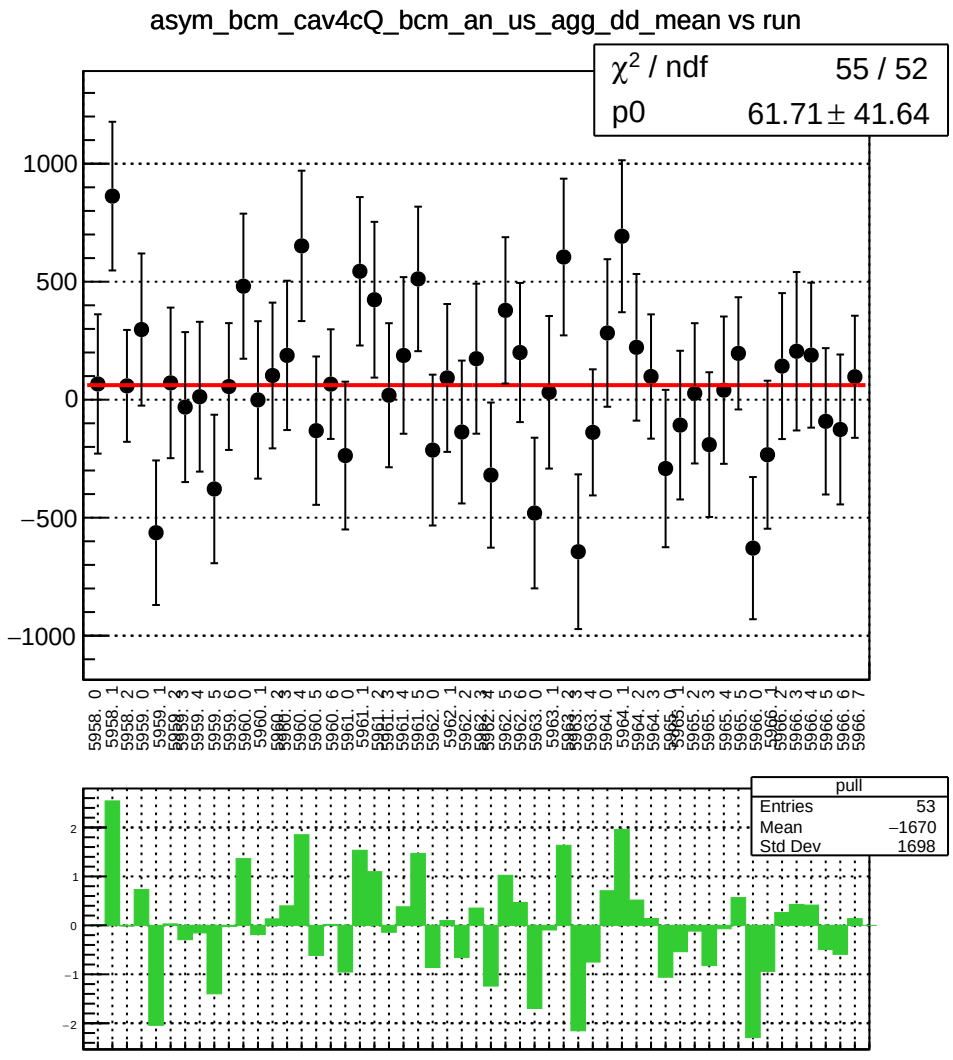

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 59 / 52
p0 5.508 ± 34.49
pull
Entries 53
Mean −498.4
Std Dev 516.8

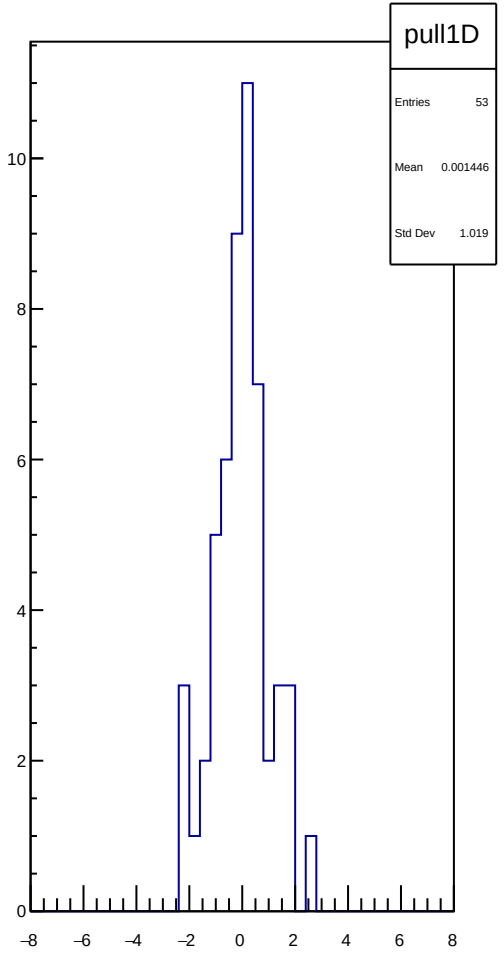

pull1D
Entries 53
Mean 0.003946
Std Dev 1.055

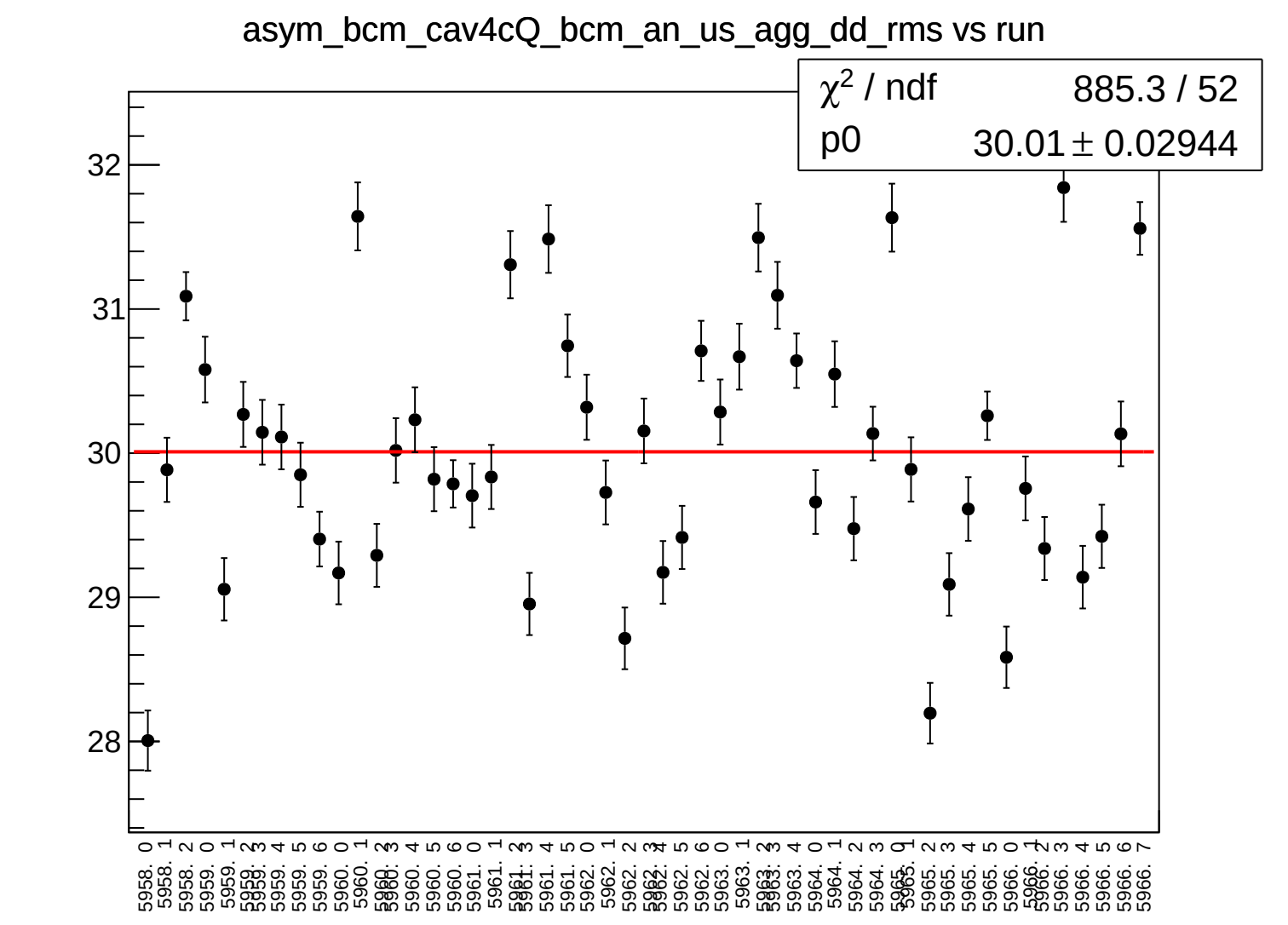

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1144 / 52
p0 24.86 ± 0.02439
27
26
25
24
23

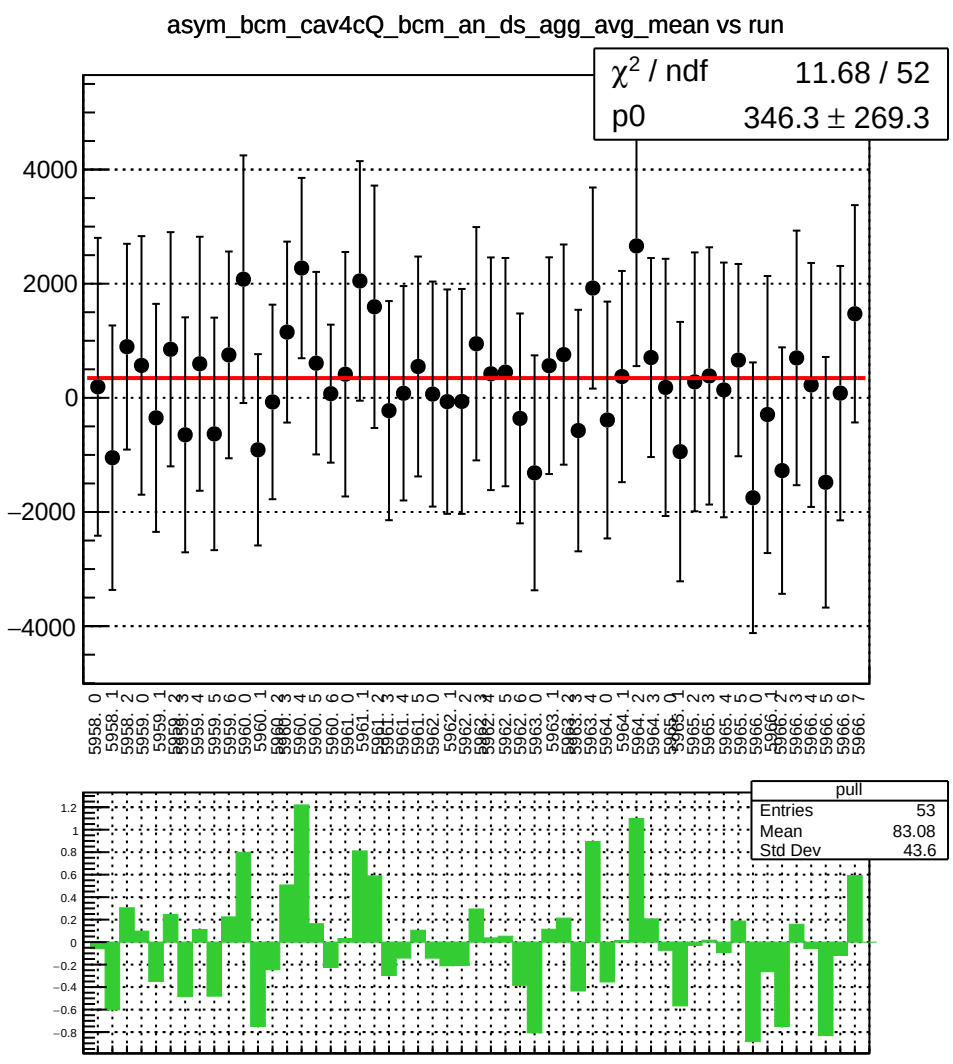

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.38 / 52
p0 315 ± 269.8
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 79.91
Std Dev 37.85
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 53
Mean −0.0124
Std Dev 0.4631
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

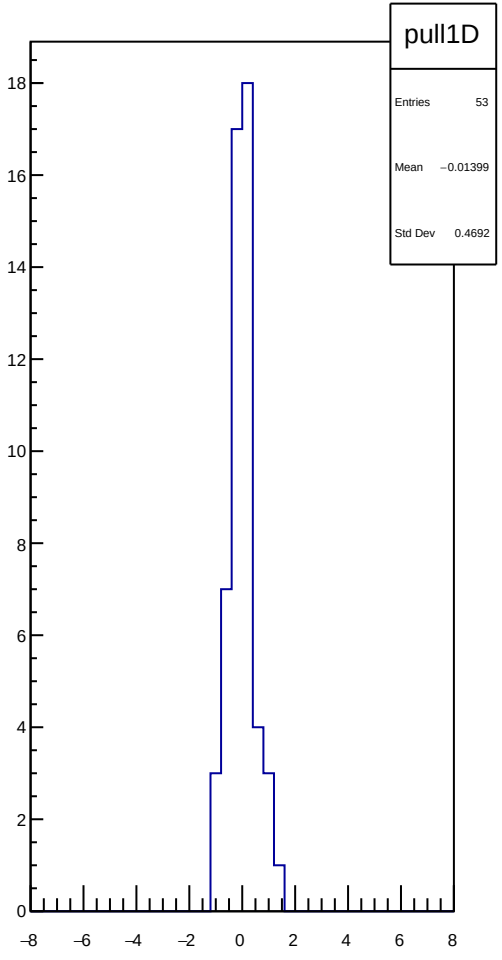

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.461e+04 / 52
p0 193.1 ± 0.1908
240
220
200
180
160
140

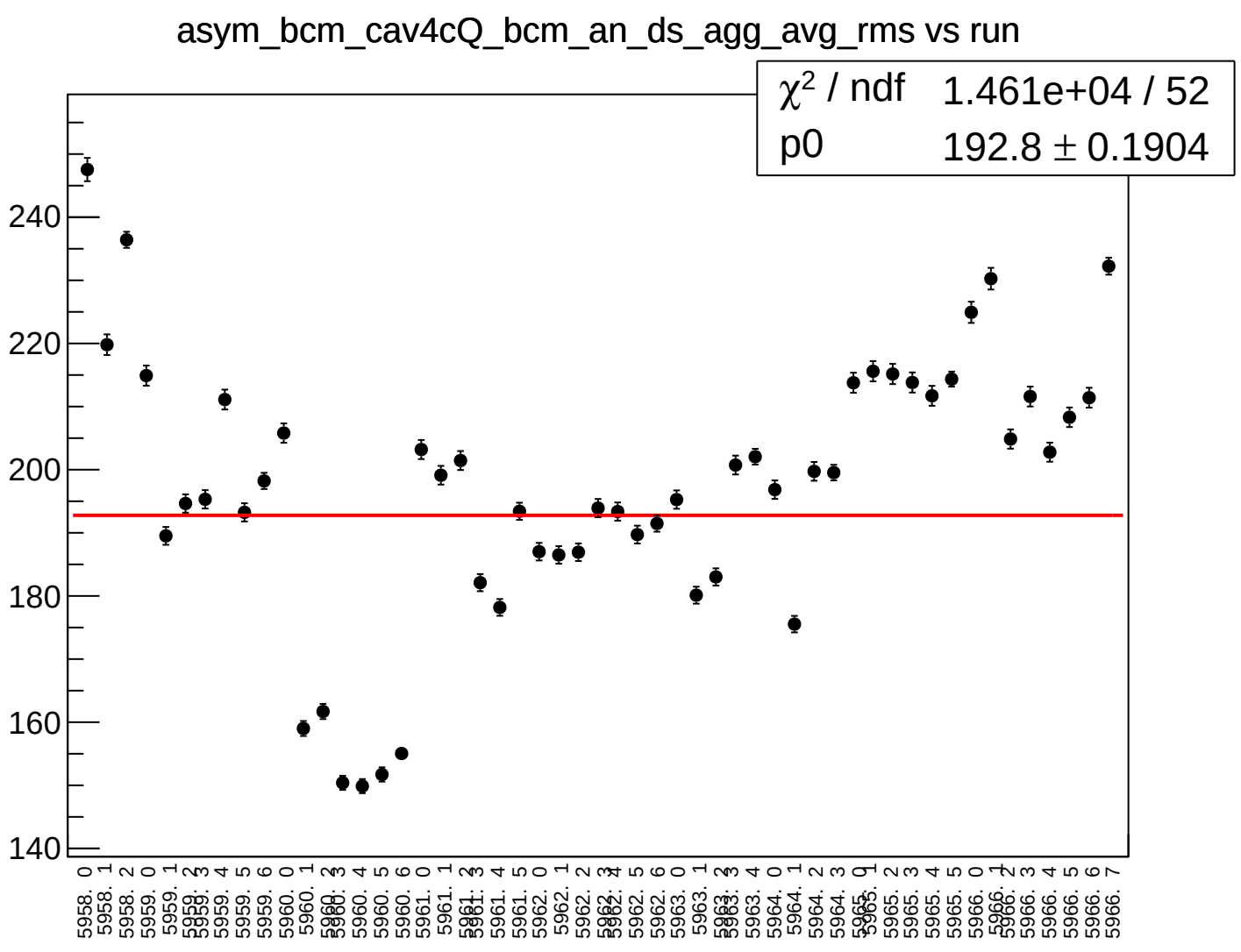

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 55 / 52
p0 61.71 ± 41.64
1000
500
0
−500
−1000
pull
Entries 53
Mean −1670
Std Dev 1698
2
1
0
−1
−2

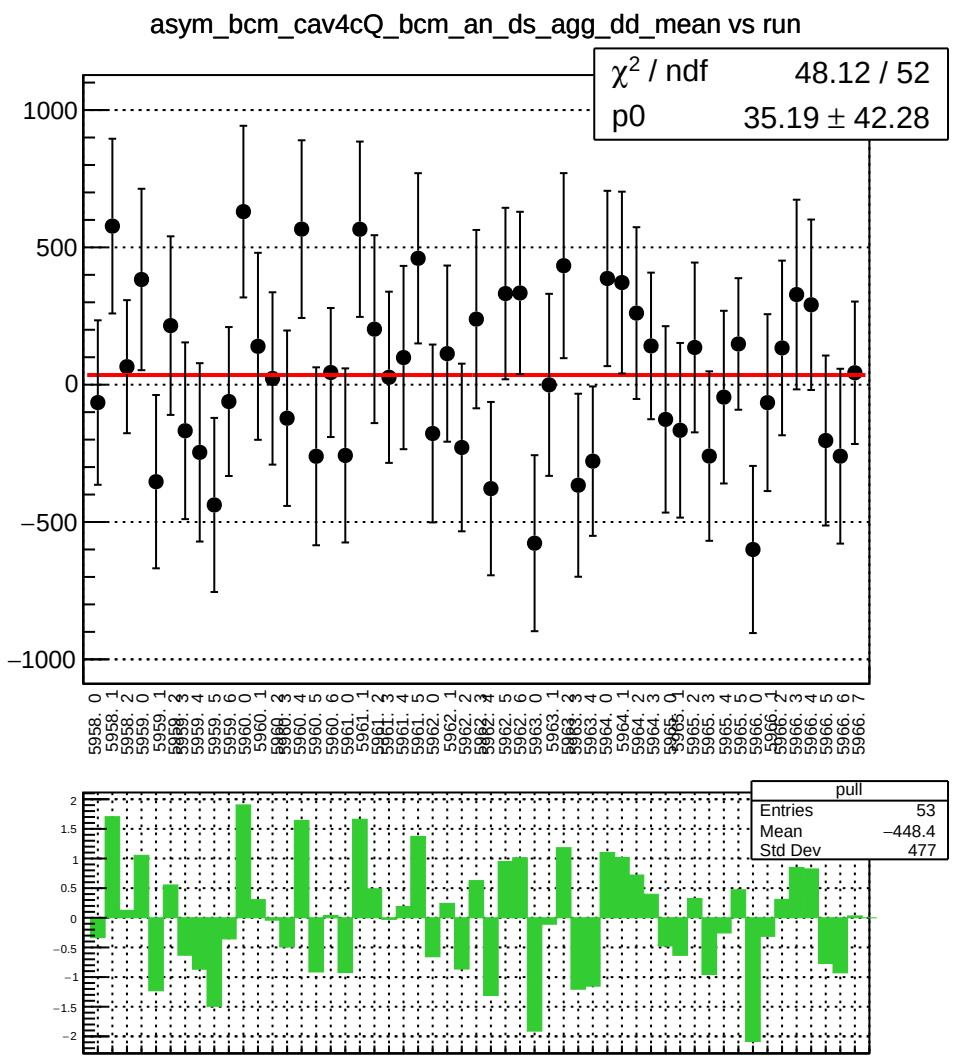

pull1D
Entries 53
Mean 0.001446
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

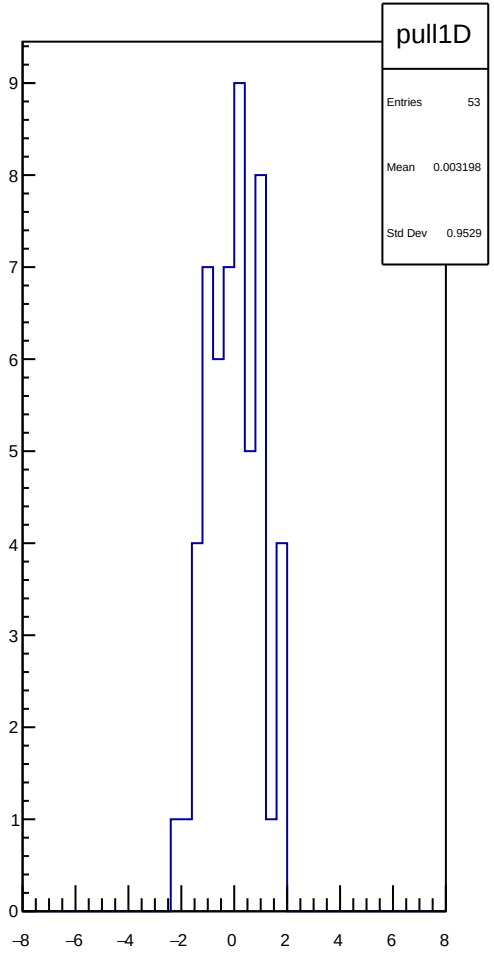

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 885.3 / 52
p0 30.01 ± 0.02944
32
31
30
29
28
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

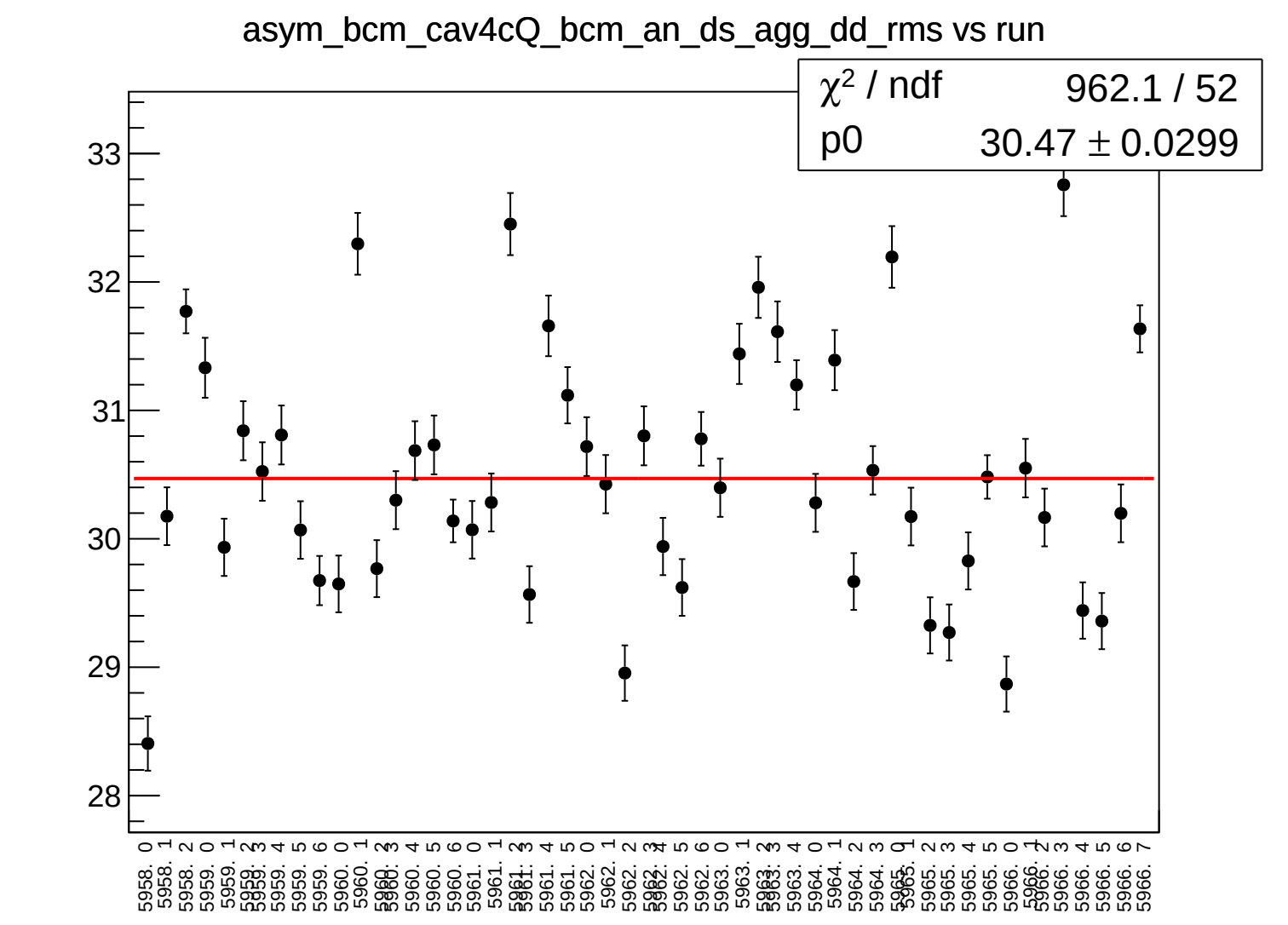

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.68 / 52
p0 346.3 ± 269.3
pull
Entries 53
Mean 83.08
Std Dev 43.6

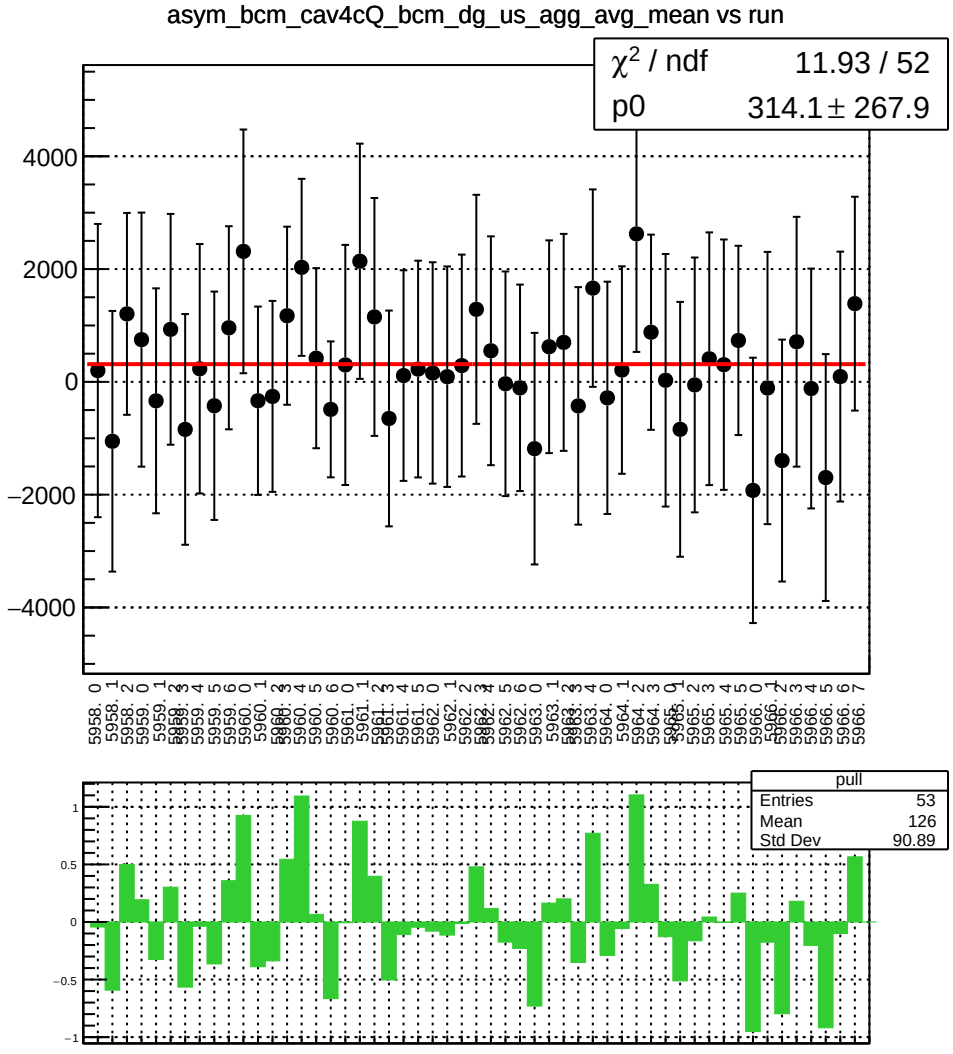

pull1D
Entries 53
Mean −0.01399
Std Dev 0.4692

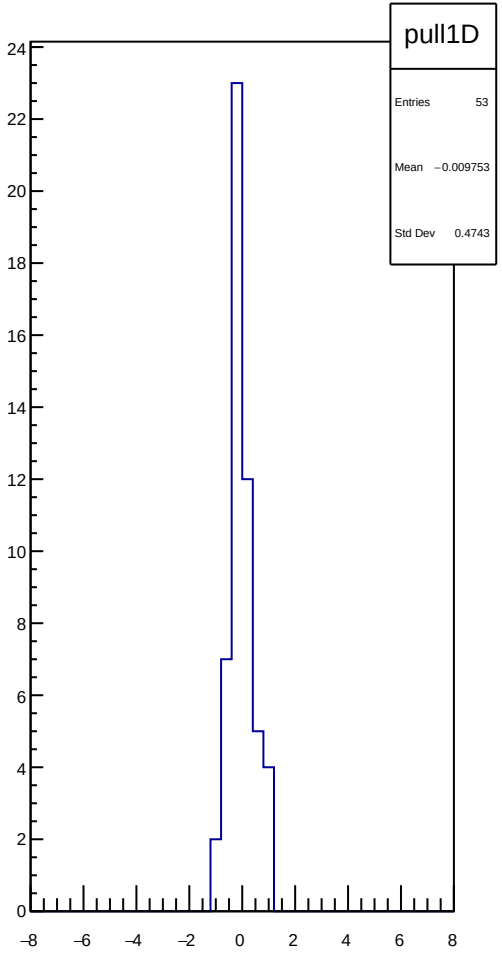

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.461e+04 / 52
p0 192.8 ± 0.1904
240
220
200
180
160
140

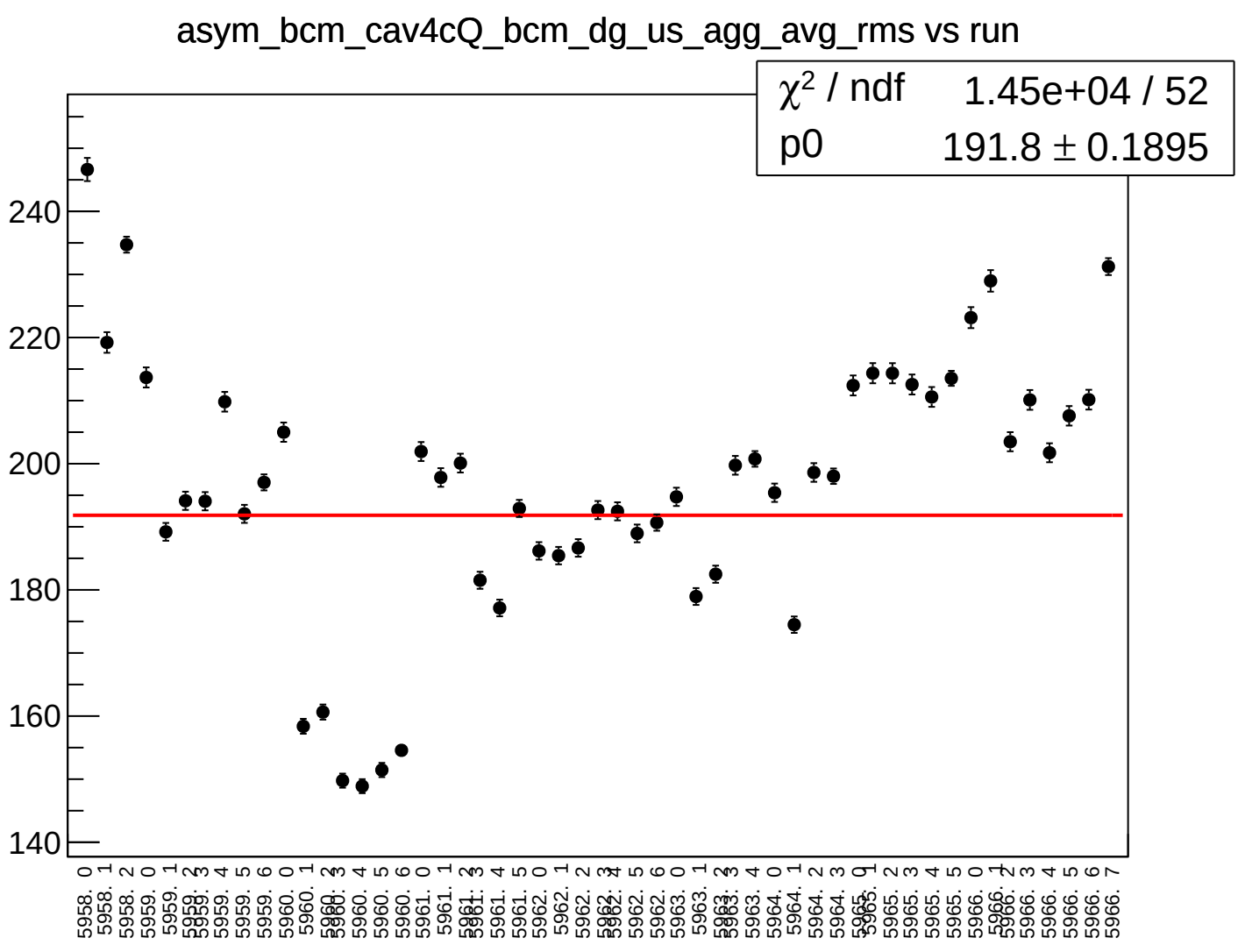

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 48.12 / 52
p0 35.19 ± 42.28
1000
500
0
−500
−1000
pull
Entries 53
Mean −448.4
Std Dev 477
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

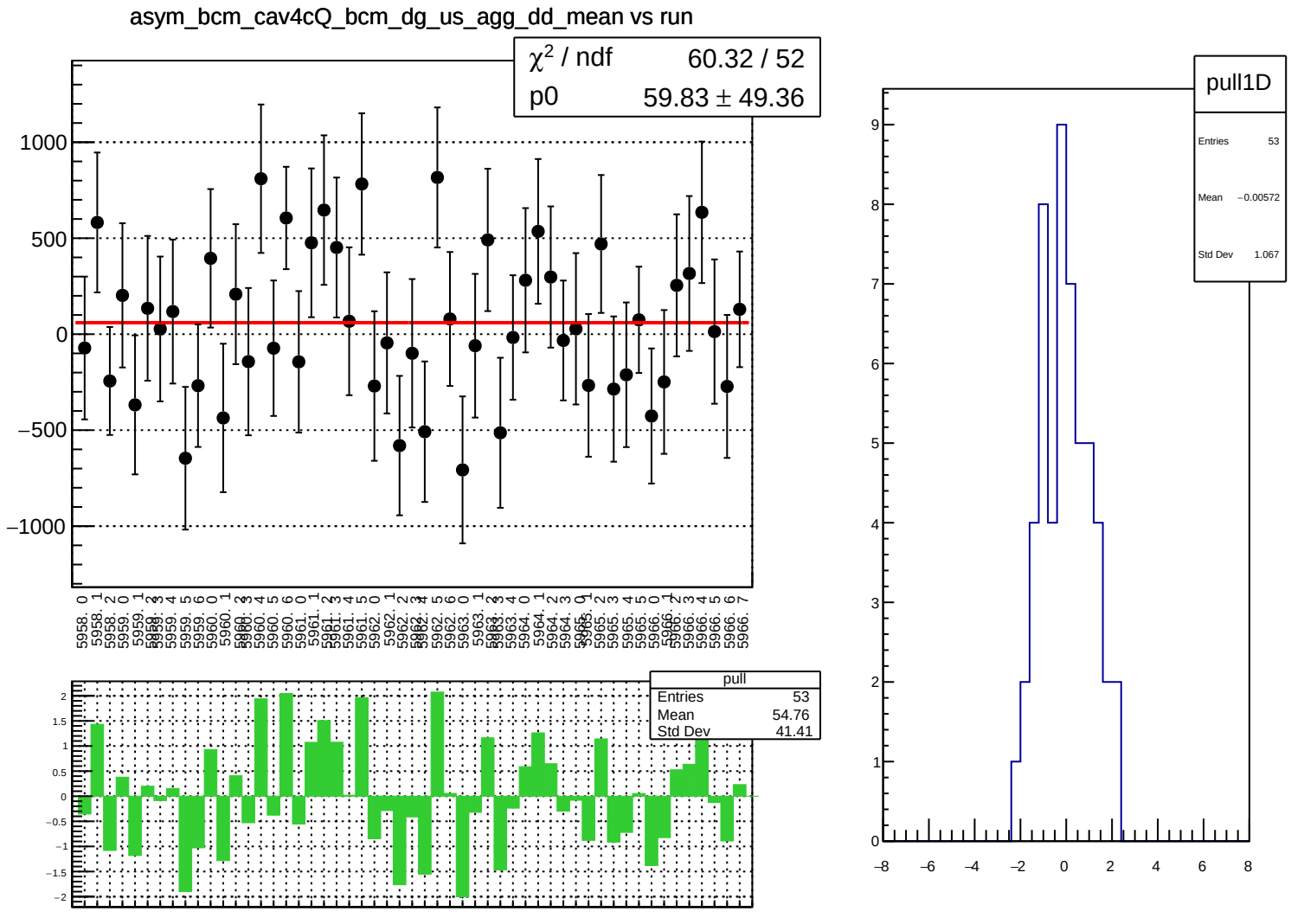

pull1D
Entries 53
Mean 0.003198
Std Dev 0.9529
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

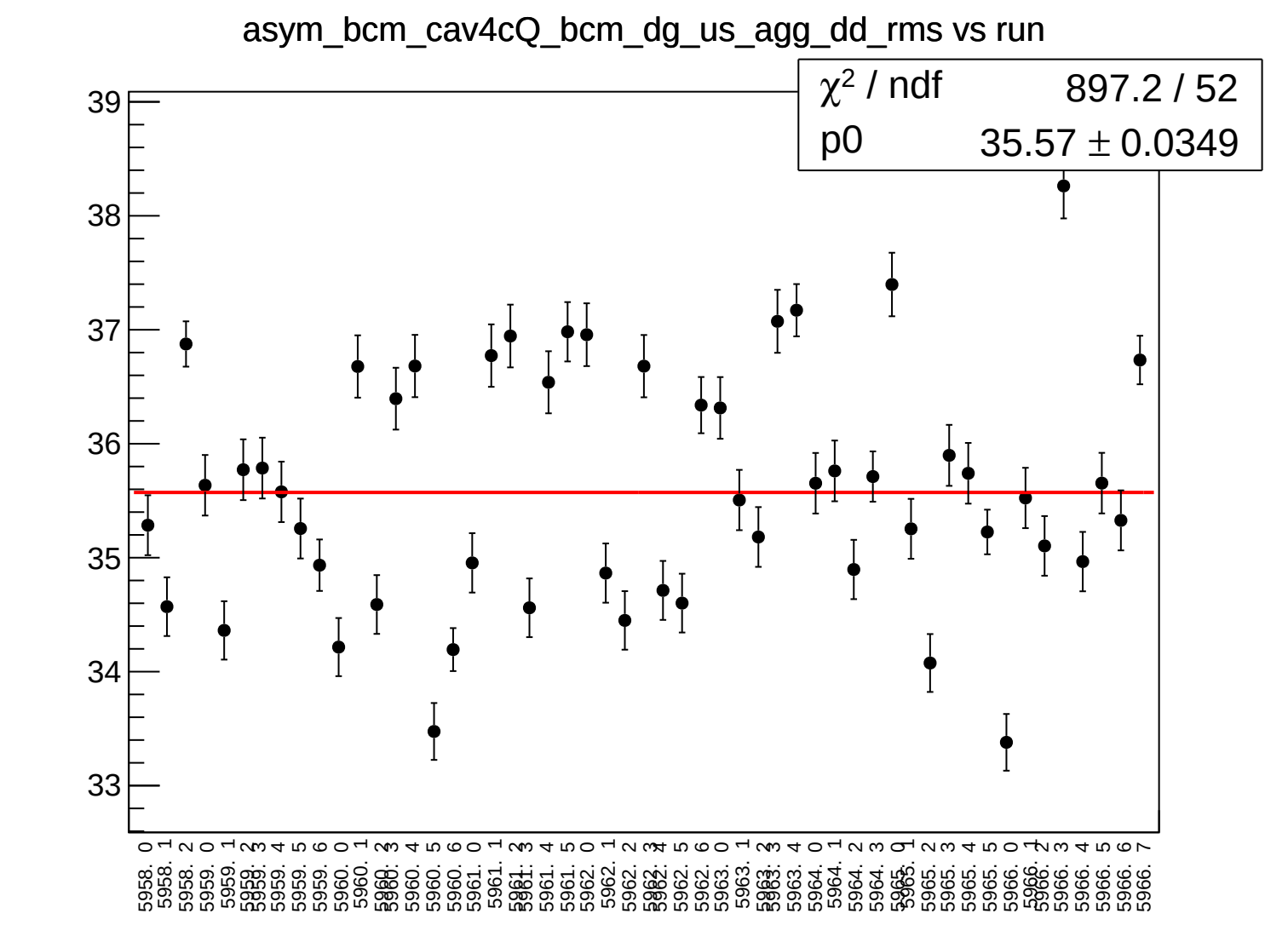

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 962.1 / 52
p0 30.47 ± 0.0299
33
32
31
30
29
28
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

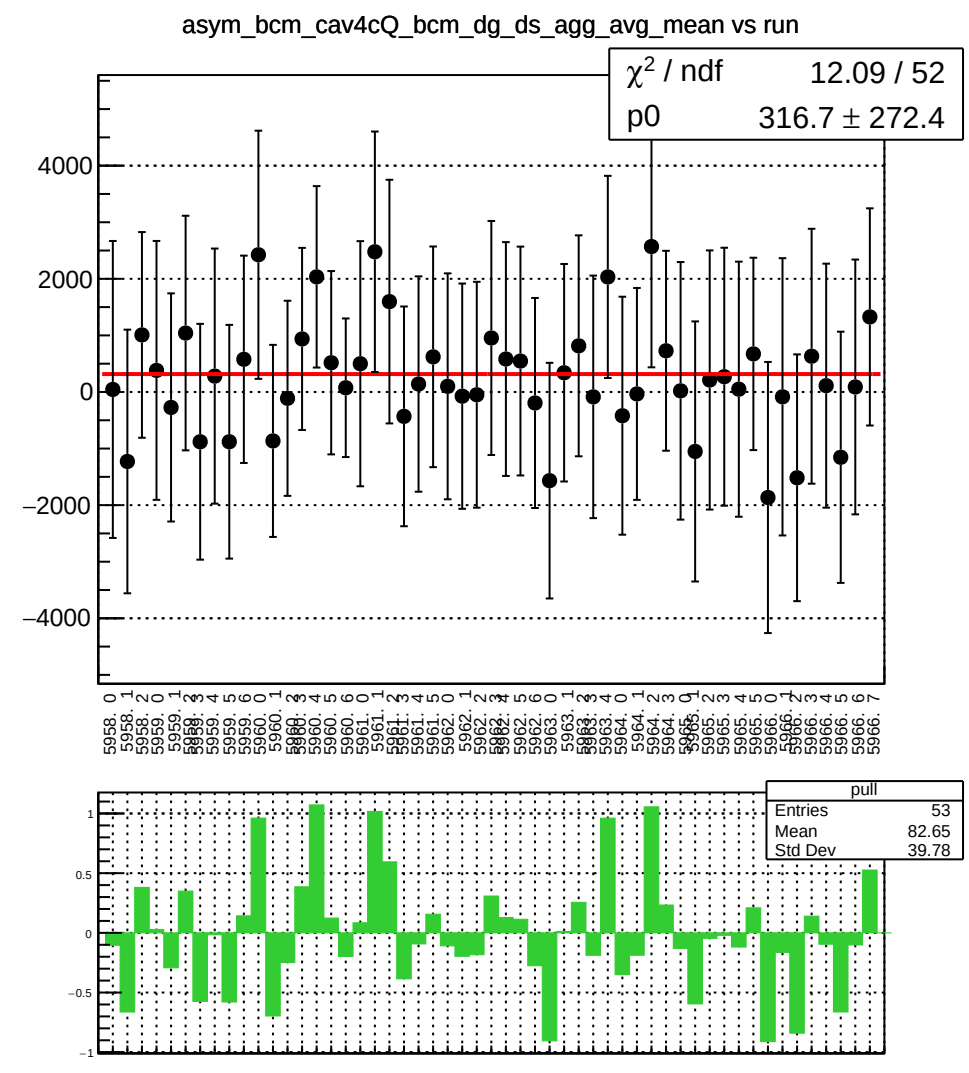

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 11.93 / 52
p0 314.1 ± 267.9
pull
Entries 53
Mean 126
Std Dev 90.89

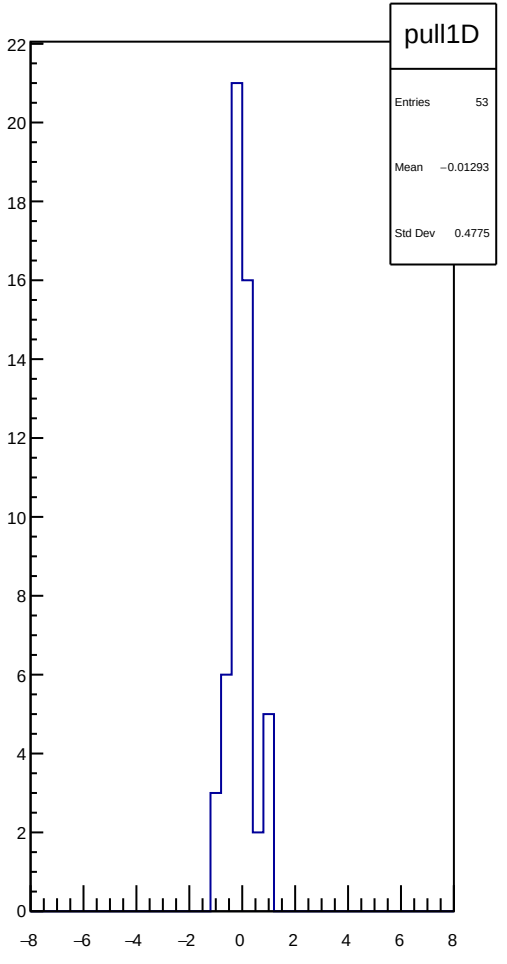

pull1D
Entries 53
Mean −0.009753
Std Dev 0.4743

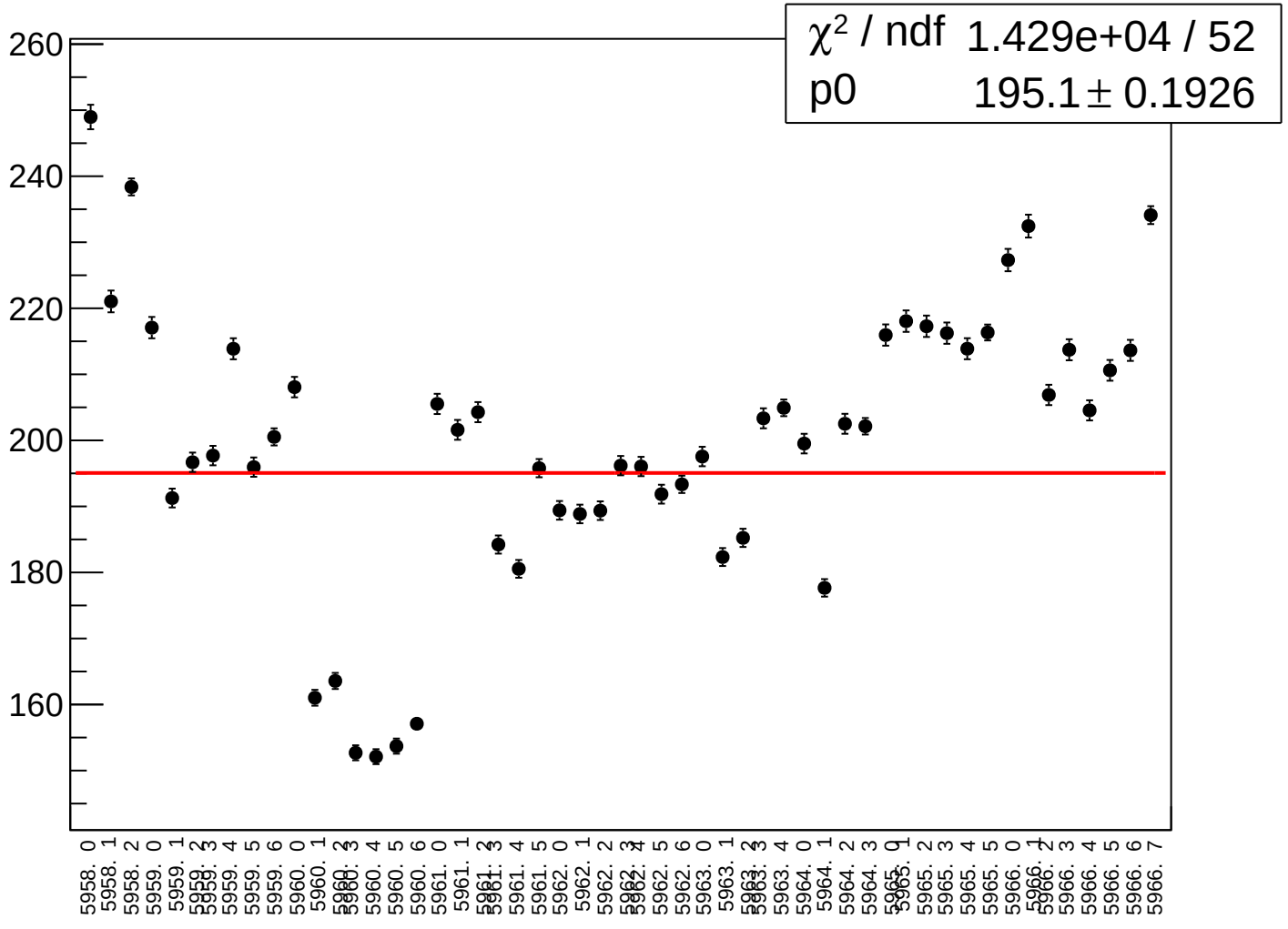

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.45e+04 / 52
p0 191.8 ± 0.1895
240
220
200
180
160
140

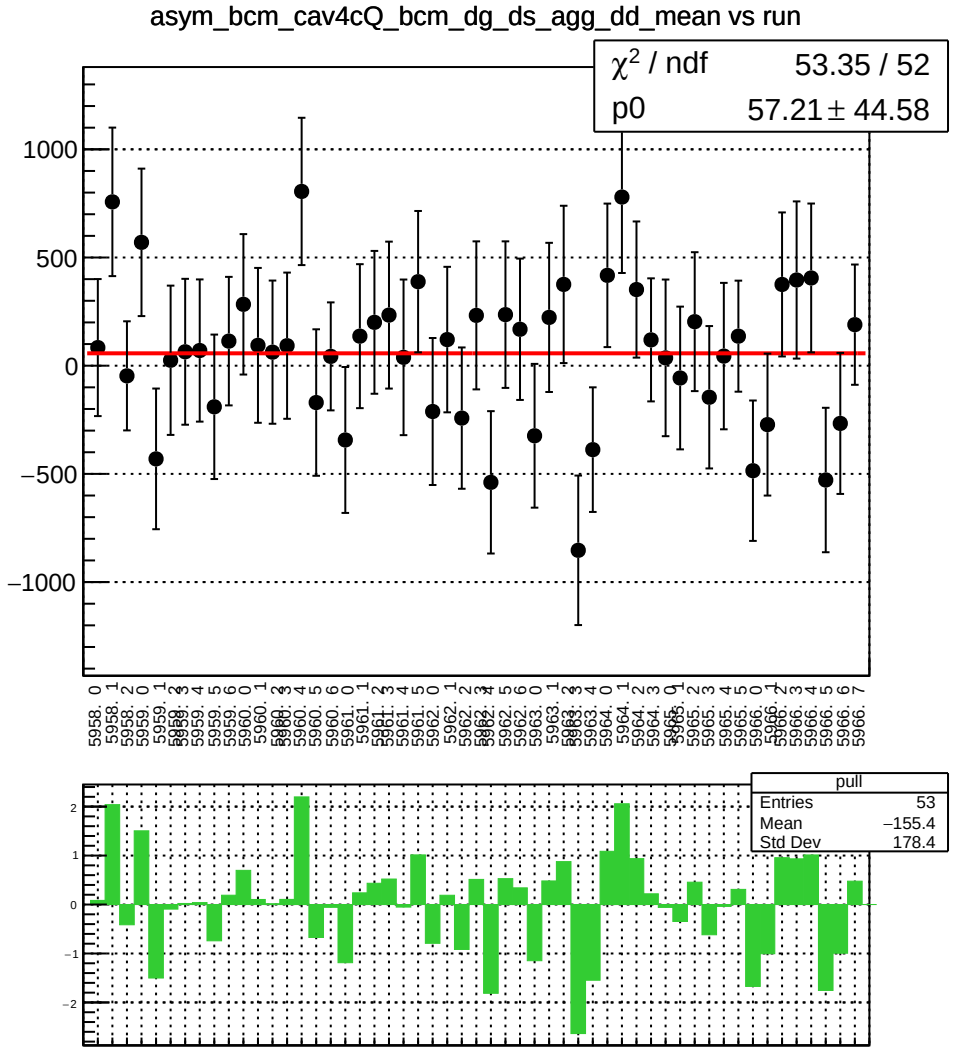

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 60.32 / 52
p0 59.83 ± 49.36
1000
500
0
−500
−1000
pull
Entries 53
Mean 54.76
Std Dev 41.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 53
Mean −0.00572
Std Dev 1.067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

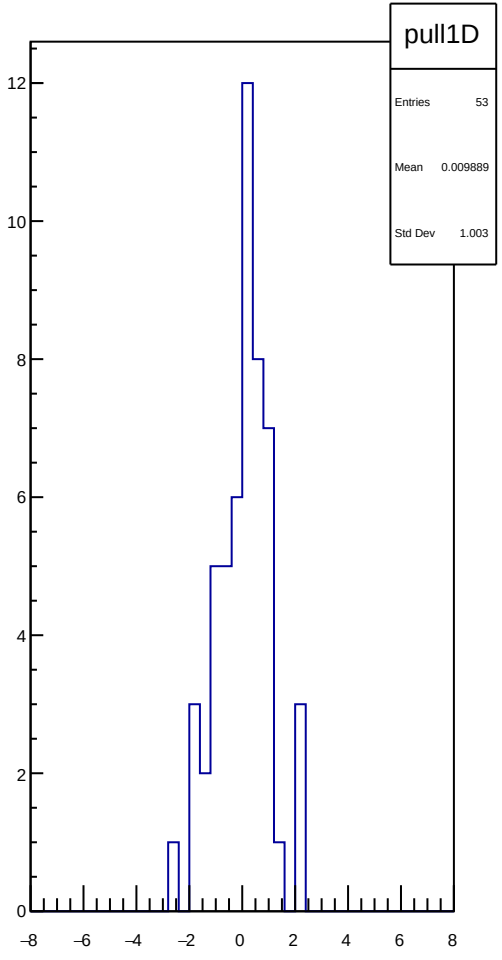

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 897.2 / 52
p0 35.57 ± 0.0349
39
38
37
36
35
34
33

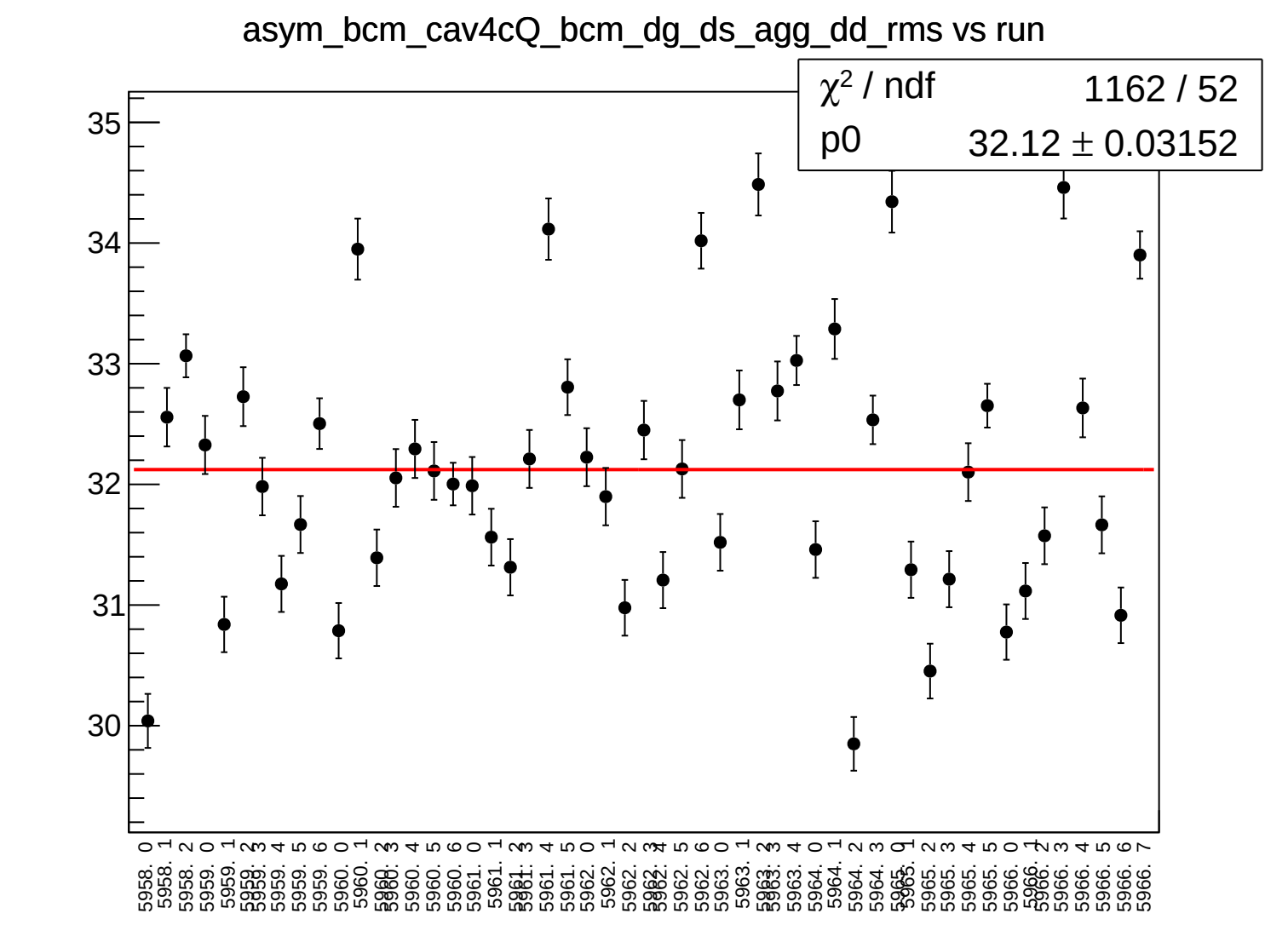

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.09 / 52
p0 316.7 ± 272.4
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 82.65
Std Dev 39.78
1
0.5
0
−0.5
−1

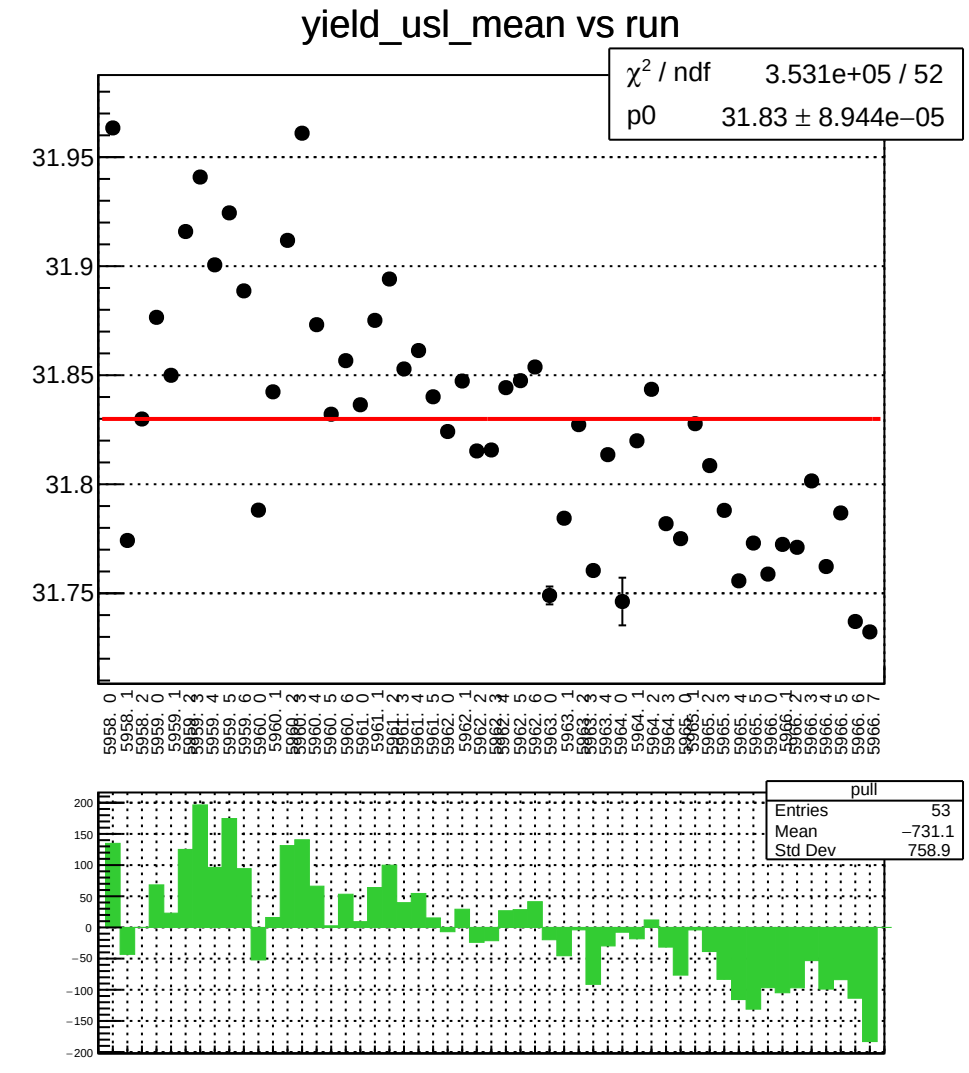

pull1D
Entries 53
Mean −0.01293
Std Dev 0.4775
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

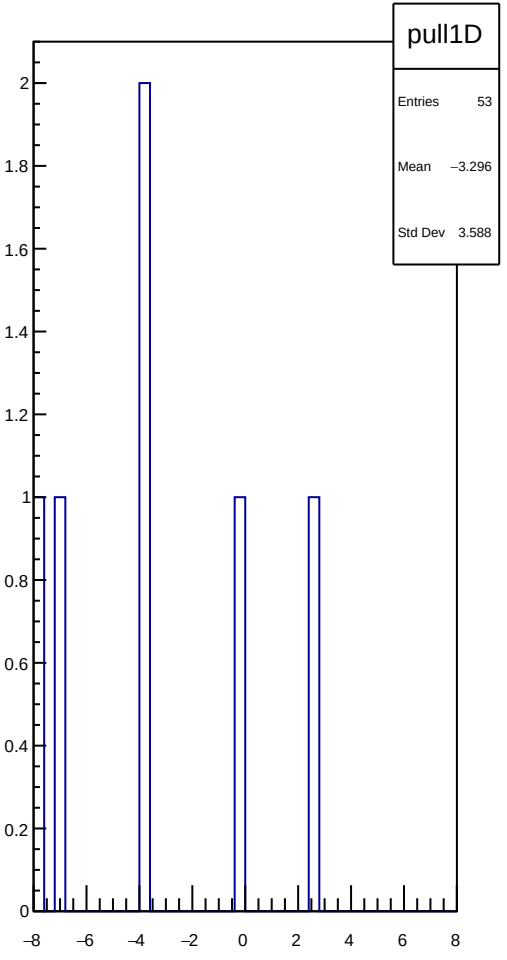

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.429e+04 / 52
p0 195.1 ± 0.1926
260
240
220
200
180
160

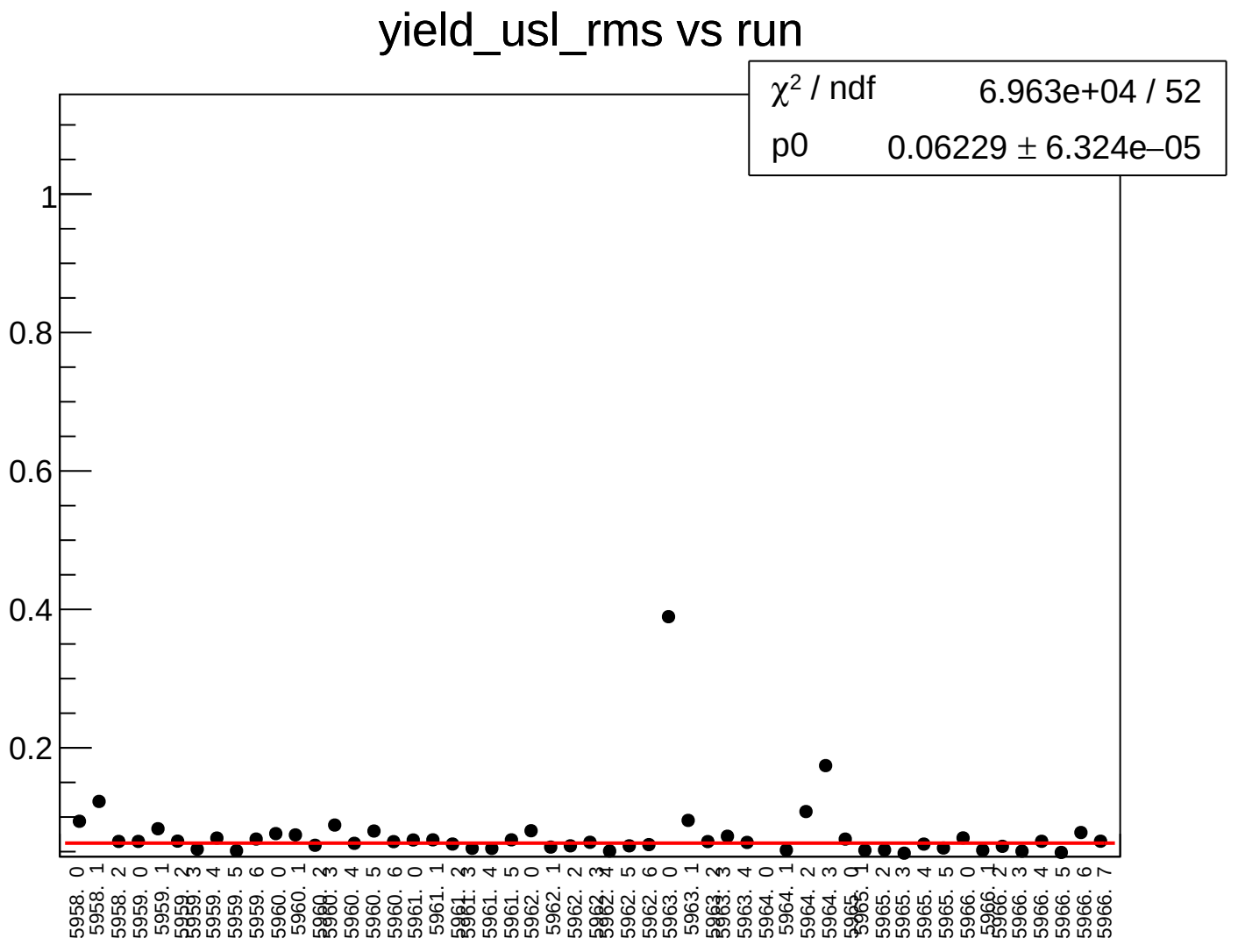

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 53.35 / 52
p0 57.21 ± 44.58
1000
500
0
−500
−1000
pull
Entries 53
Mean −155.4
Std Dev 178.4
2
1
0
−1

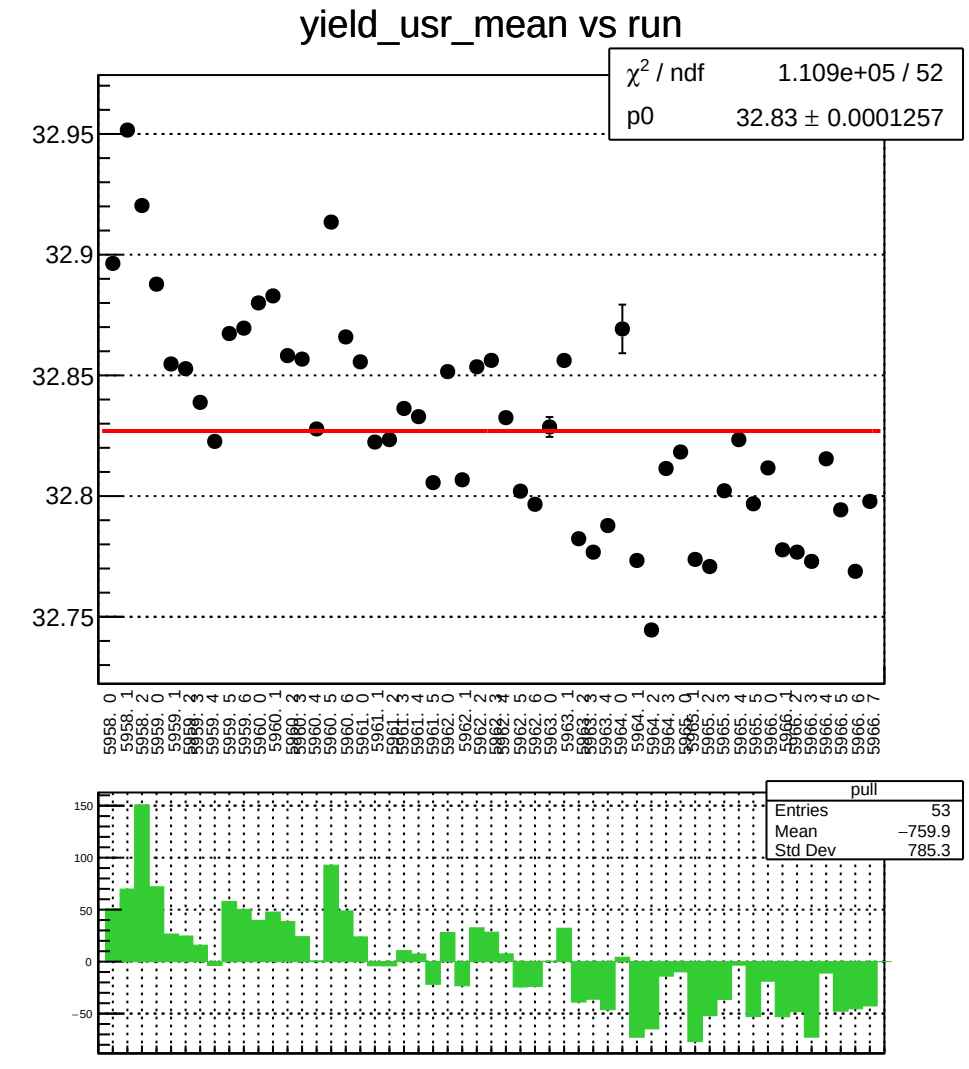

pull1D
Entries 53
Mean 0.009889
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

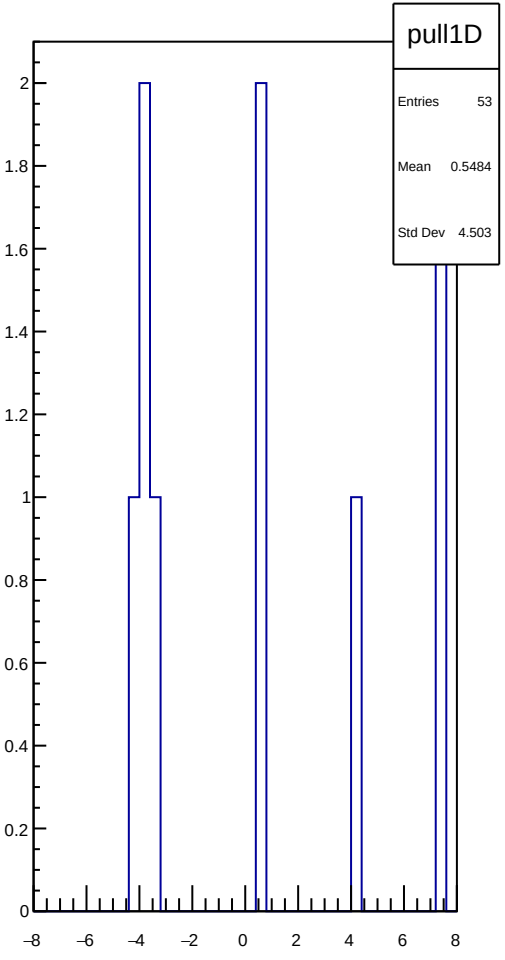

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1162 / 52
p0 32.12 ± 0.03152
35
34
33
32
31
30

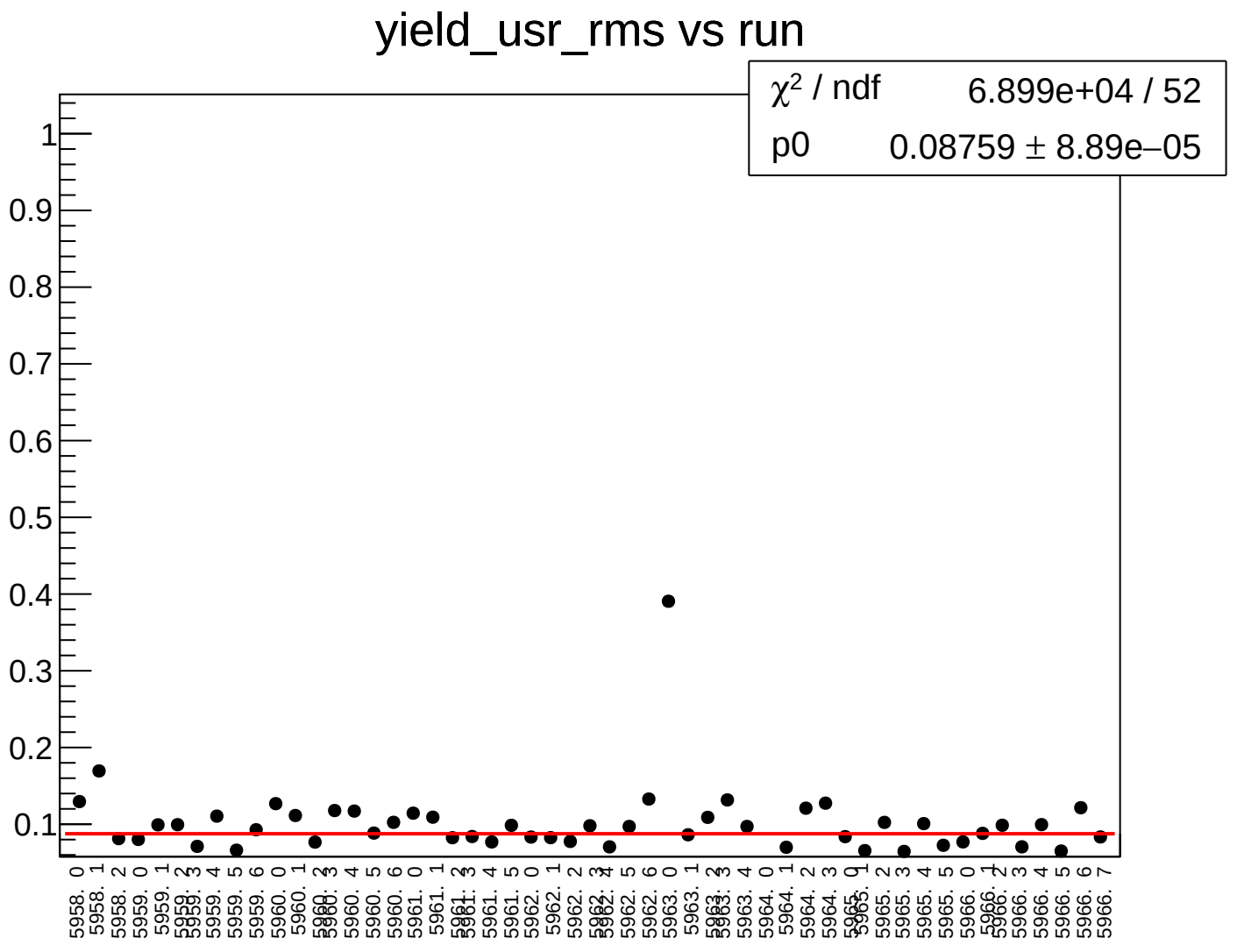

yield_usl_mean vs run
χ² / ndf 3.531e+05 / 52
p0 31.83 ± 8.944e−05
31.95
31.9
31.85
31.8
31.75
pull
Entries 53
Mean −731.1
Std Dev 758.9
200
150
100
50
0
−50
−100
−150
−200

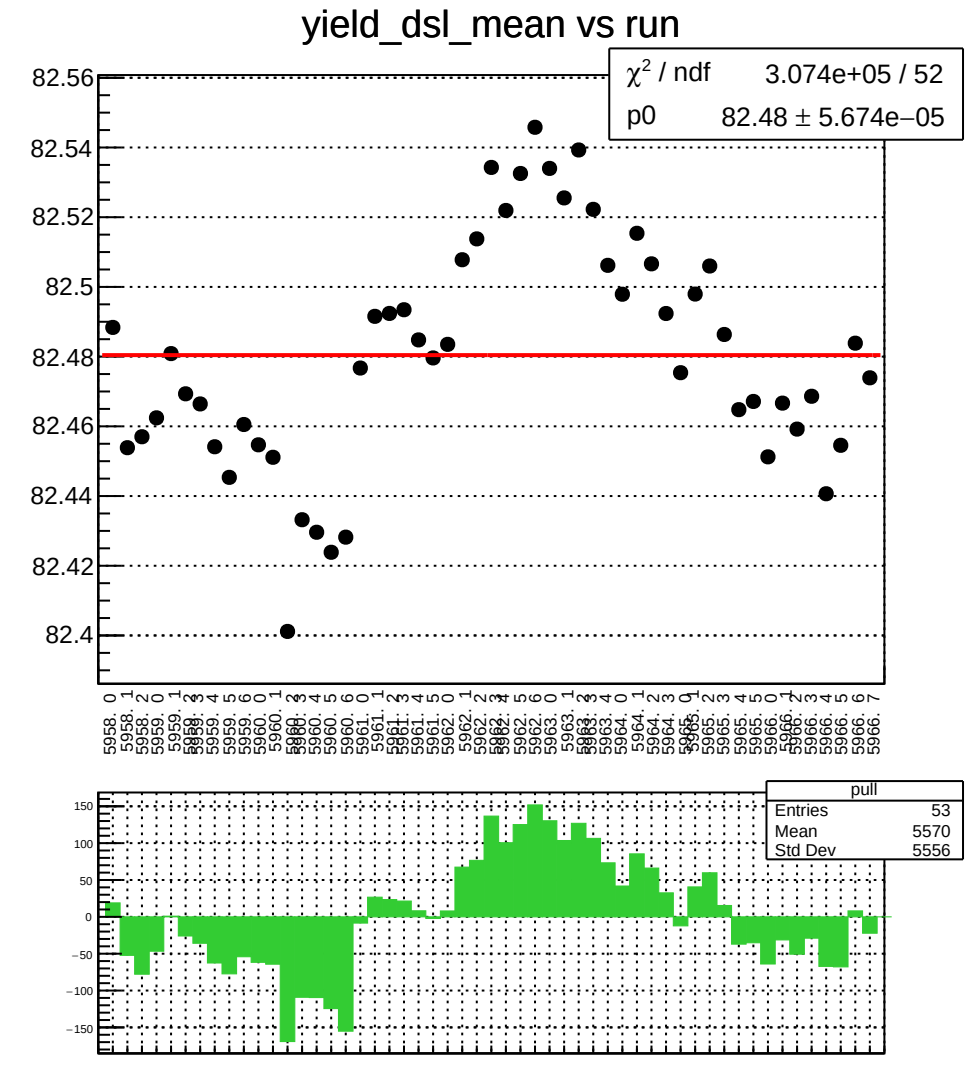

pull1D
Entries 53
Mean −3.296
Std Dev 3.588
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

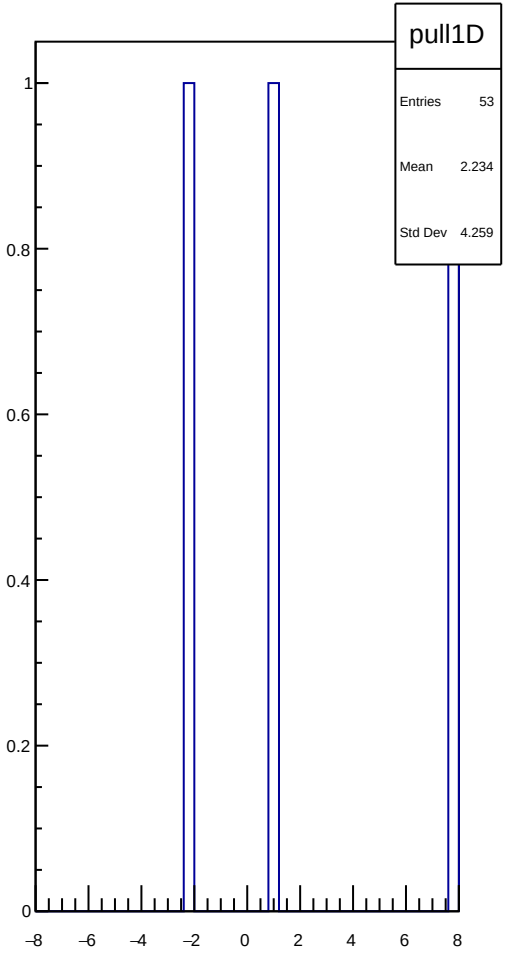

yield_usl_rms vs run
χ² / ndf 6.963e+04 / 52
p0 0.06229 ± 6.324e−05
1
0.8
0.6
0.4
0.2

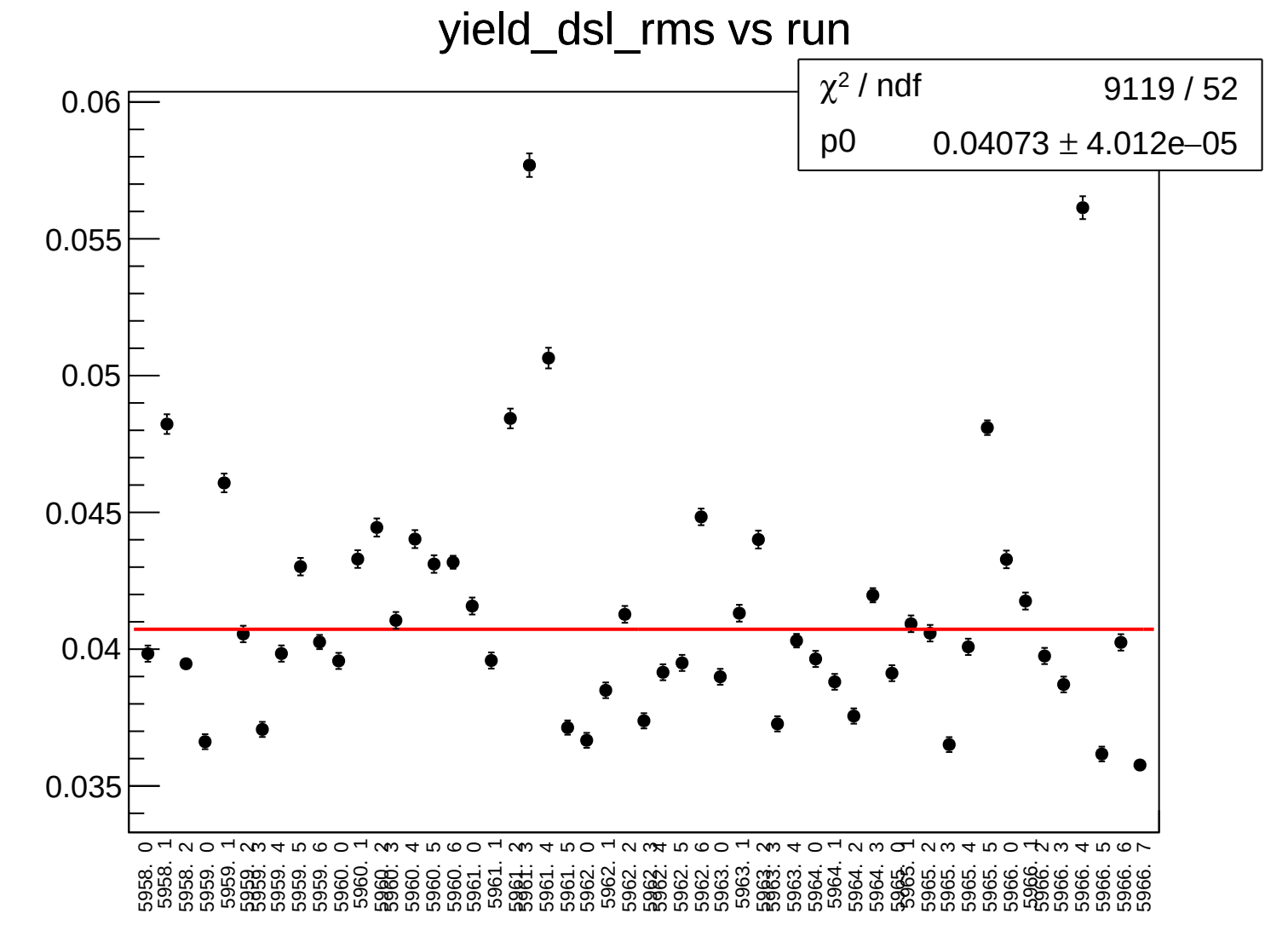

yield_usr_mean vs run
χ² / ndf 1.109e+05 / 52
p0 32.83 ± 0.0001257
32.95
32.9
32.85
32.8
32.75
pull
Entries 53
Mean −759.9
Std Dev 785.3
150
100
50
0
−50

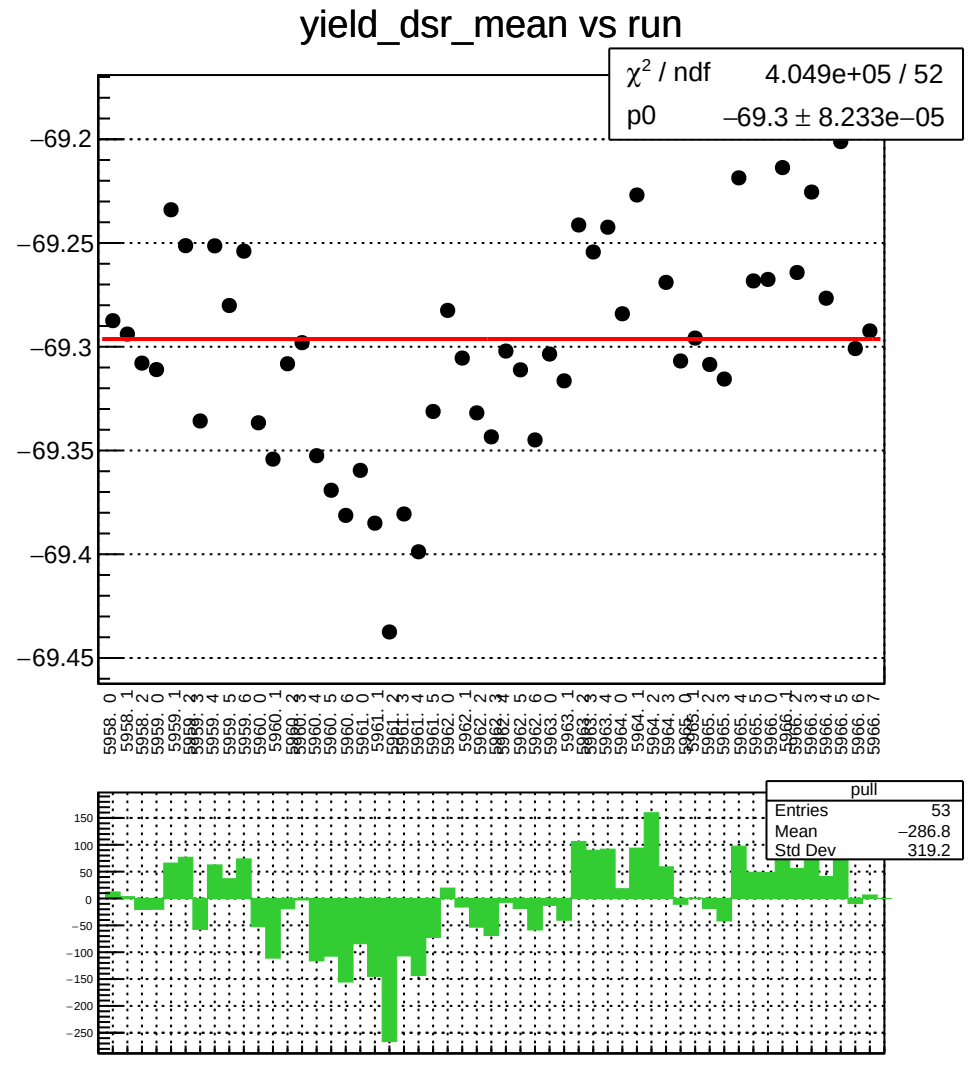

pull1D
Entries 53
Mean 0.5484
Std Dev 4.503
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

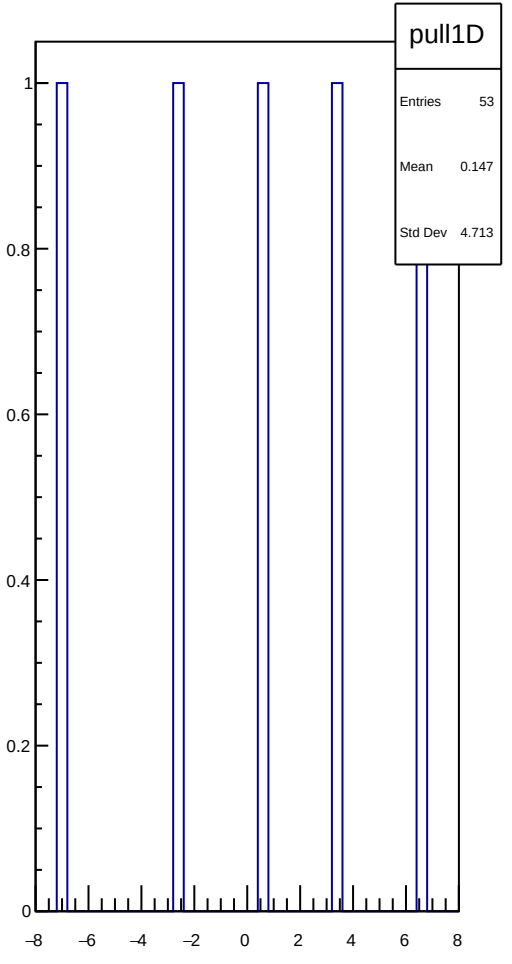

yield_usr_rms vs run
χ² / ndf 6.899e+04 / 52
p0 0.08759 ± 8.89e−05
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 4
5966. 5
5966. 6
5966. 7

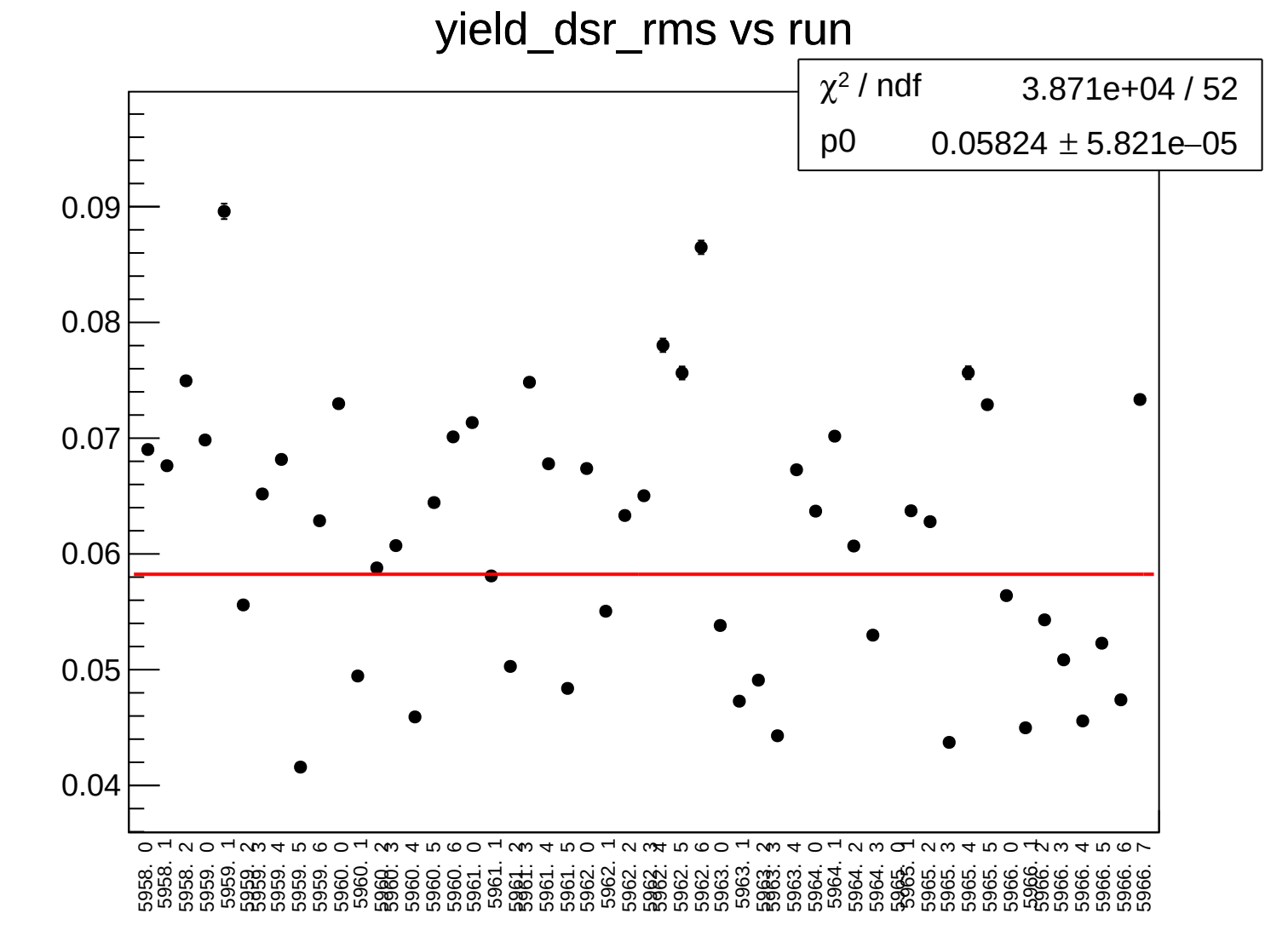

yield_dsl_mean vs run
χ² / ndf 3.074e+05 / 52
p0 82.48 ± 5.674e−05
82.56
82.54
82.52
82.5
82.48
82.46
82.44
82.42
82.4
pull
Entries 53
Mean 5570
Std Dev 5556
150
100
50
0
−50
−100
−150

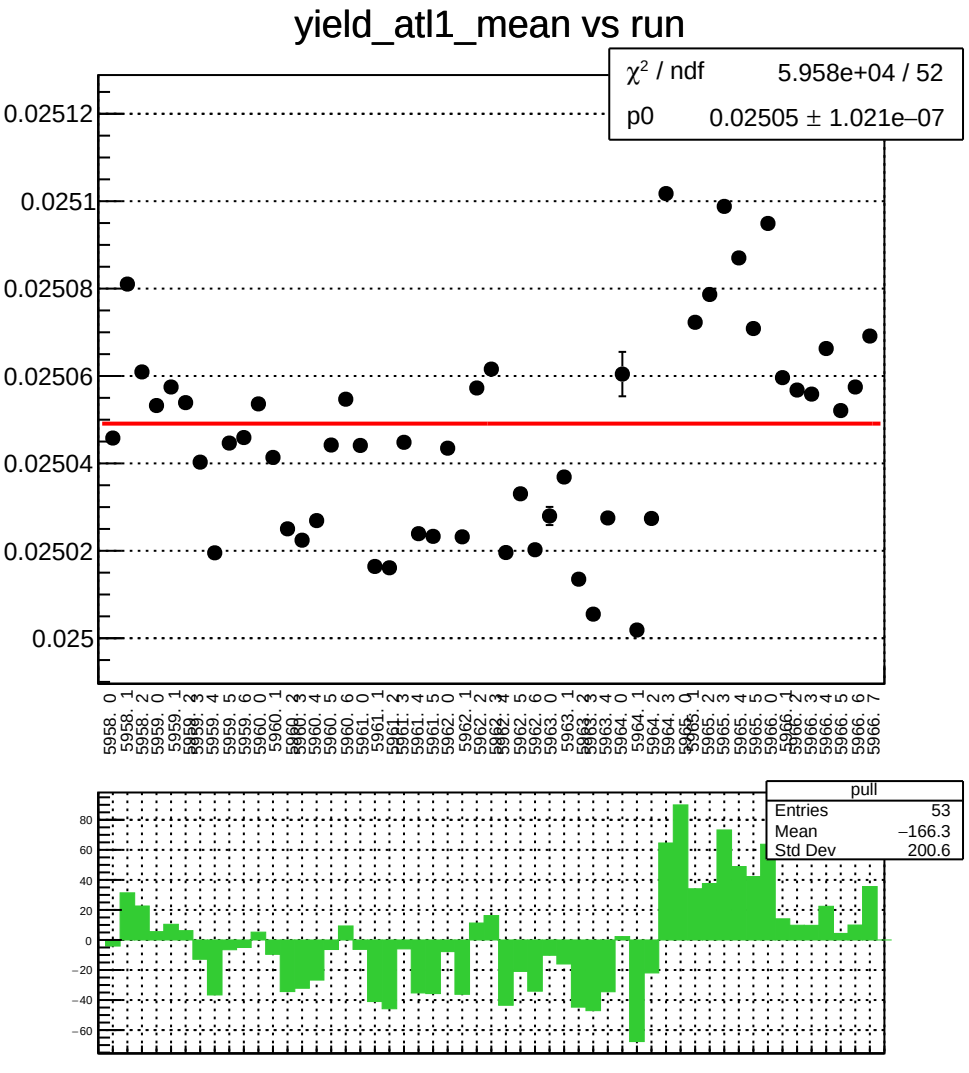

pull1D
Entries 53
Mean 2.234
Std Dev 4.259
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

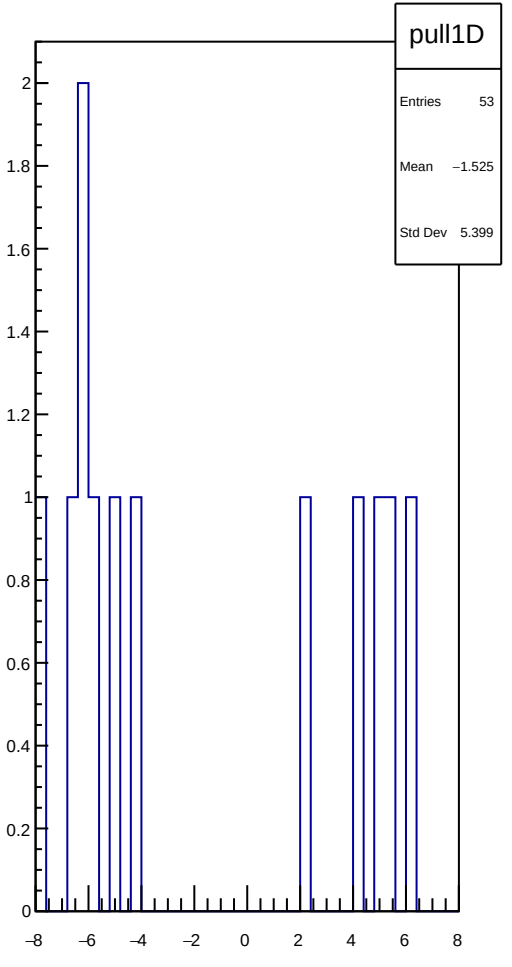

yield_dsl_rms vs run
χ² / ndf 9119 / 52
p0 0.04073 ± 4.012e−05
0.06
0.055
0.05
0.045
0.04
0.035

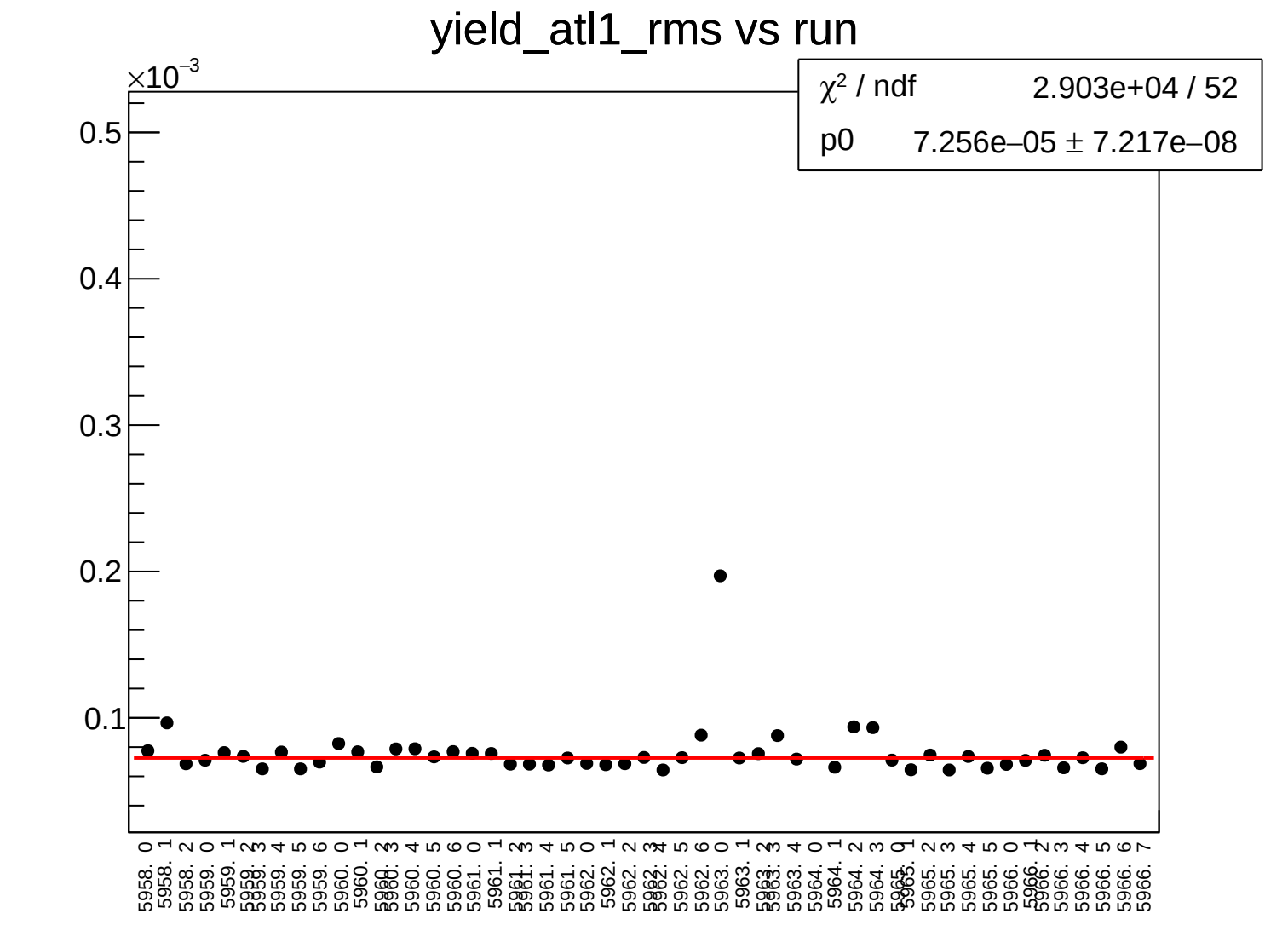

yield_dsr_mean vs run
χ² / ndf 4.049e+05 / 52
p0 −69.3 ± 8.233e−05
−69.2
−69.25
−69.3
−69.35
−69.4
−69.45
pull
Entries 53
Mean −286.8
Std Dev 319.2
150
100
50
0
−50
−100
−150
−200
−250

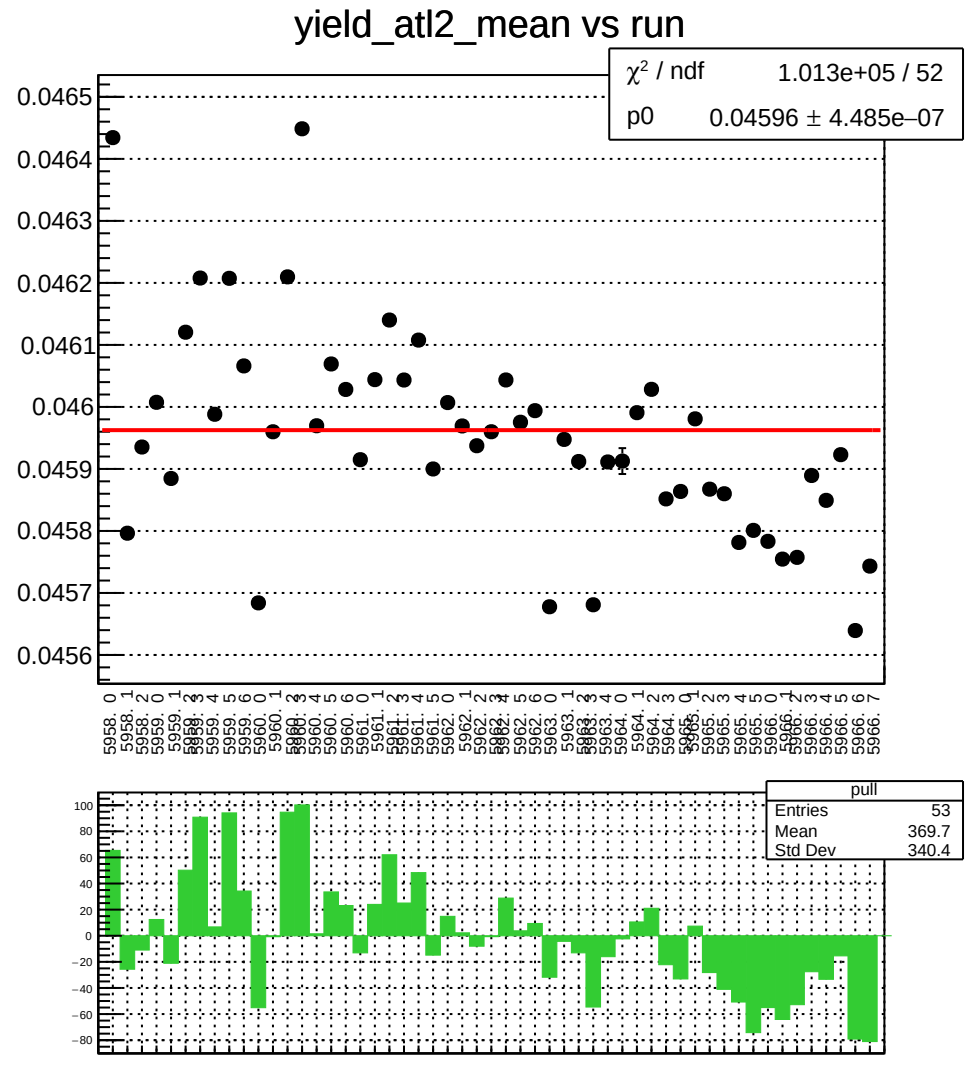

pull1D
Entries 53
Mean 0.147
Std Dev 4.713
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

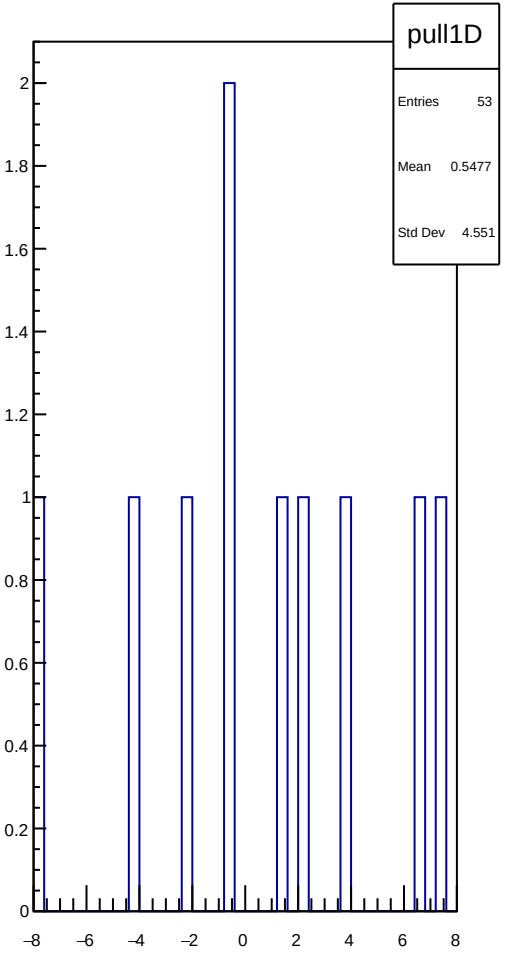

yield_dsr_rms vs run
χ² / ndf 3.871e+04 / 52
p0 0.05824 ± 5.821e−05
0.09
0.08
0.07
0.06
0.05
0.04

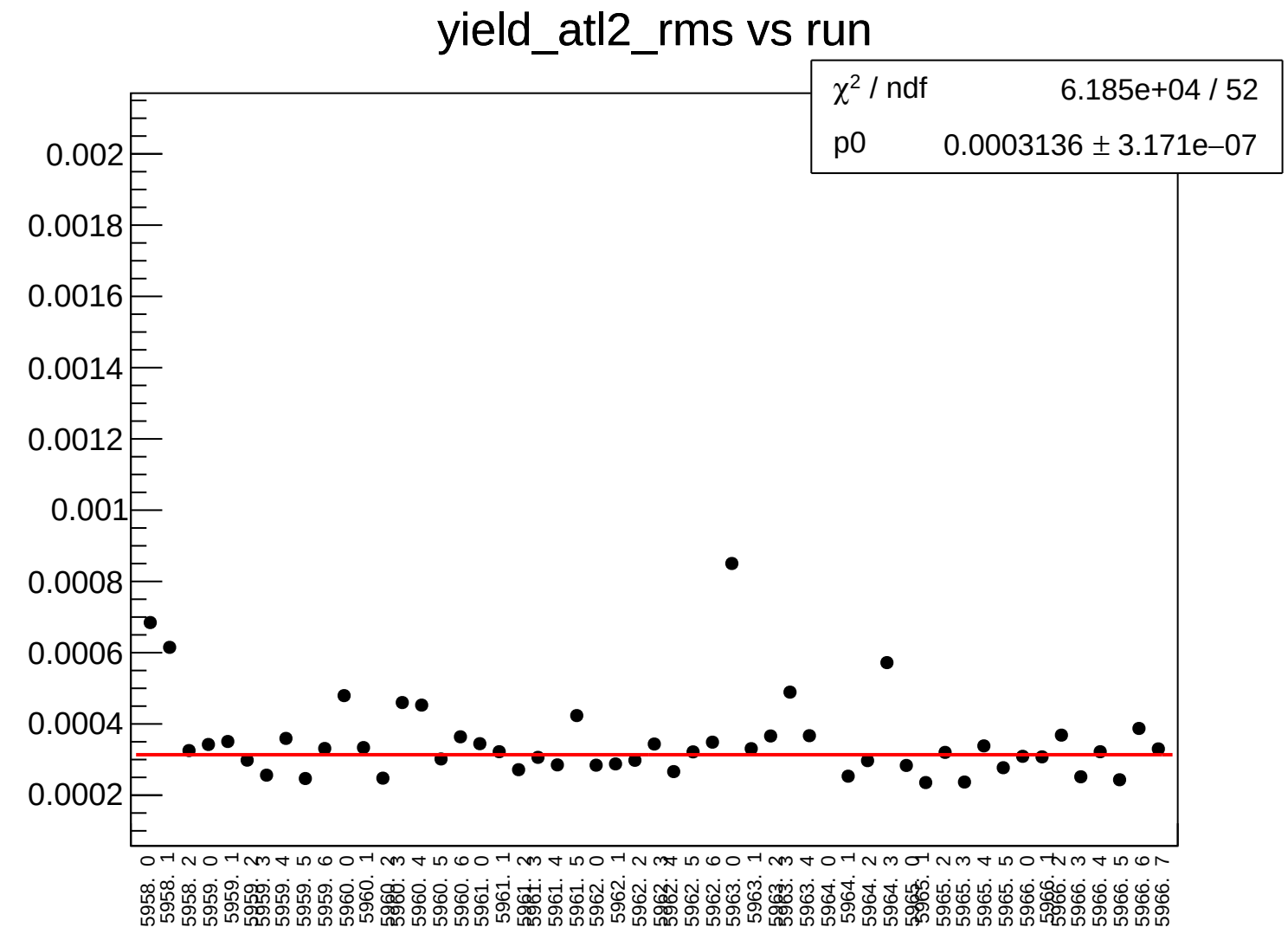

yield_atl1_mean vs run
χ² / ndf 5.958e+04 / 52
p0 0.02505 ± 1.021e−07
0.02512
0.0251
0.02508
0.02506
0.02504
0.02502
0.025
pull
Entries 53
Mean −166.3
Std Dev 200.6
80
60
40
20
0
−20
−40
−60

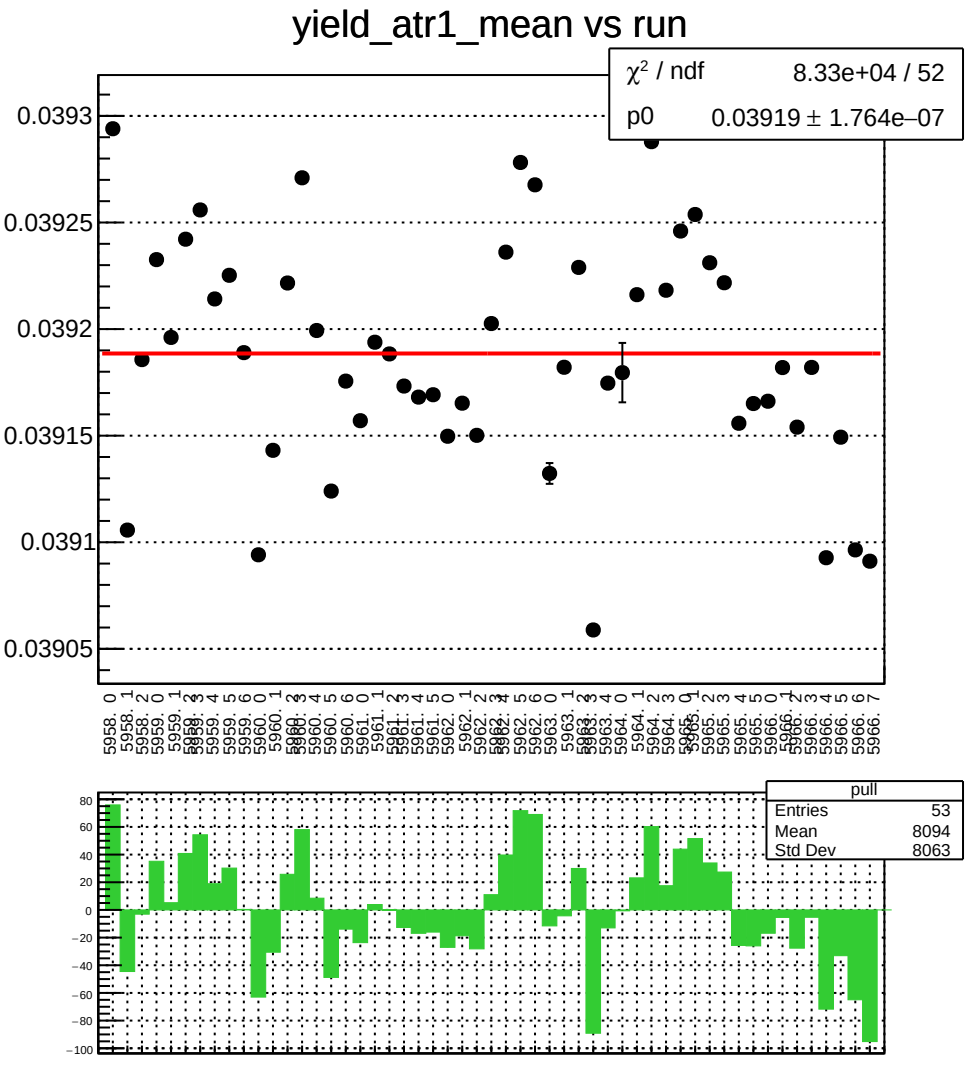

pull1D
Entries 53
Mean −1.525
Std Dev 5.399
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

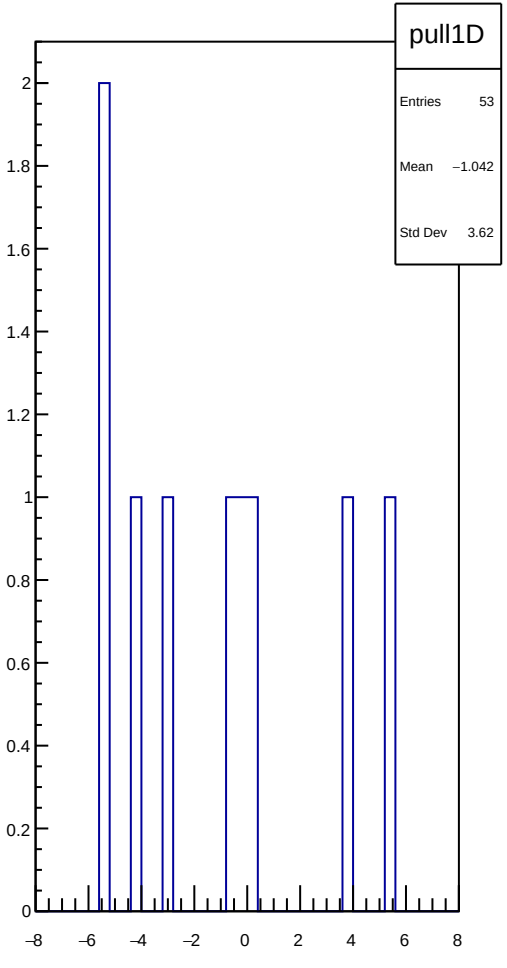

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.903e+04 / 52
p0 7.256e−05 ± 7.217e−08
0.5
0.4
0.3
0.2
0.1

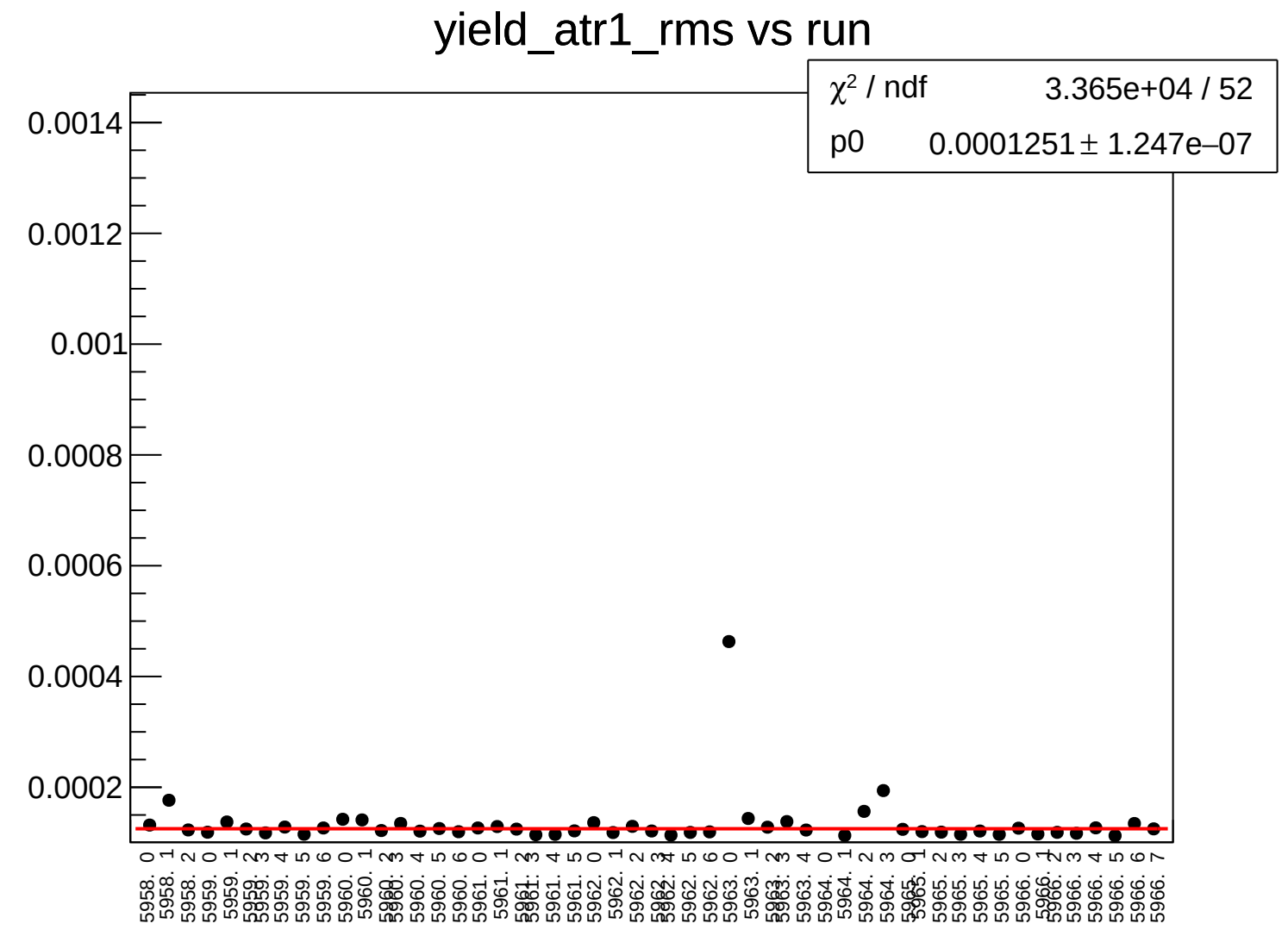

yield_atl2_mean vs run
χ² / ndf 1.013e+05 / 52
p0 0.04596 ± 4.485e−07
0.0465
0.0464
0.0463
0.0462
0.0461
0.046
0.0459
0.0458
0.0457
0.0456
pull
Entries 53
Mean 369.7
Std Dev 340.4
100
80
60
40
20
0
−20
−40
−60
−80

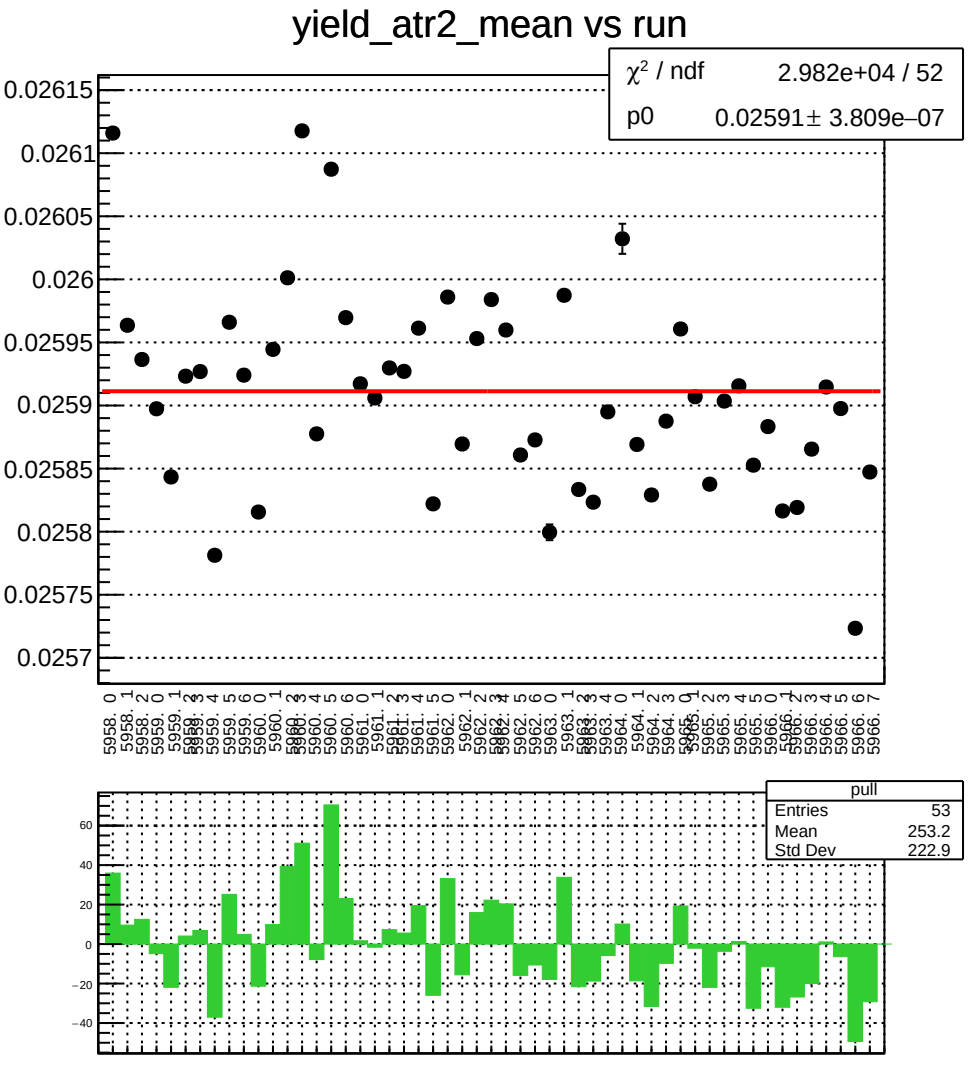

pull1D
Entries 53
Mean 0.5477
Std Dev 4.551
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

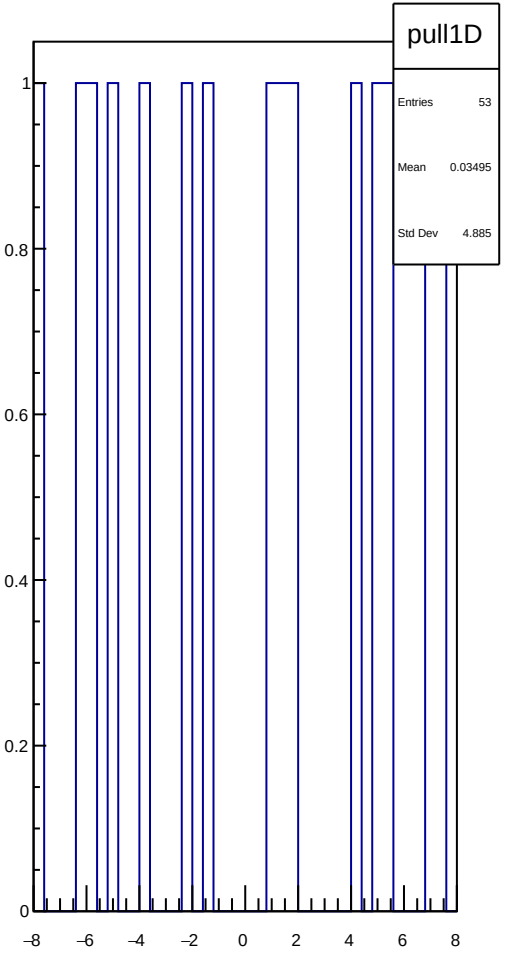

yield_atl2_rms vs run
χ² / ndf 6.185e+04 / 52
p0 0.0003136 ± 3.171e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

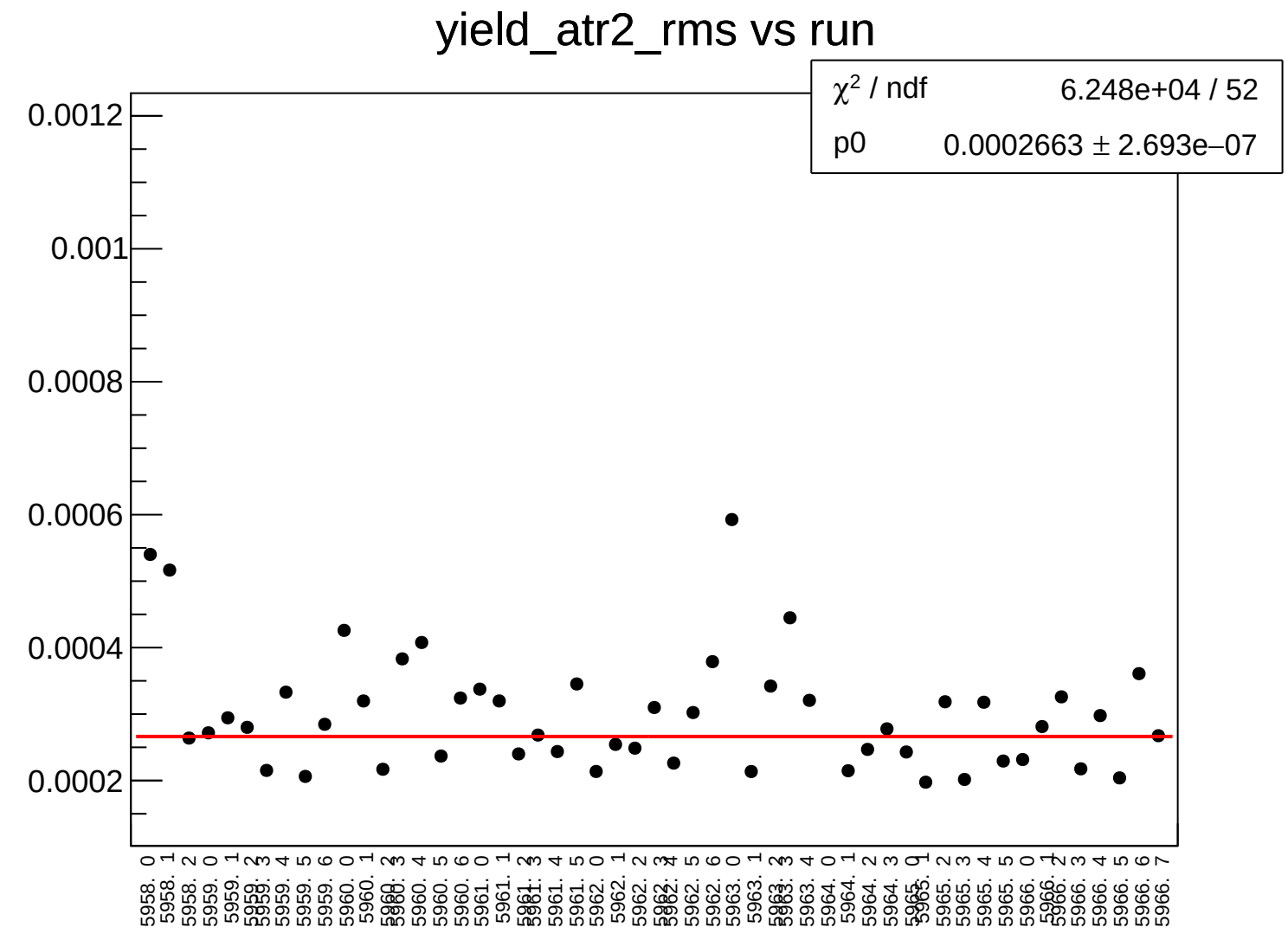

yield_atr1_mean vs run
χ² / ndf 8.33e+04 / 52
p0 0.03919 ± 1.764e−07
0.0393
0.03925
0.0392
0.03915
0.0391
0.03905
pull
Entries 53
Mean 8094
Std Dev 8063

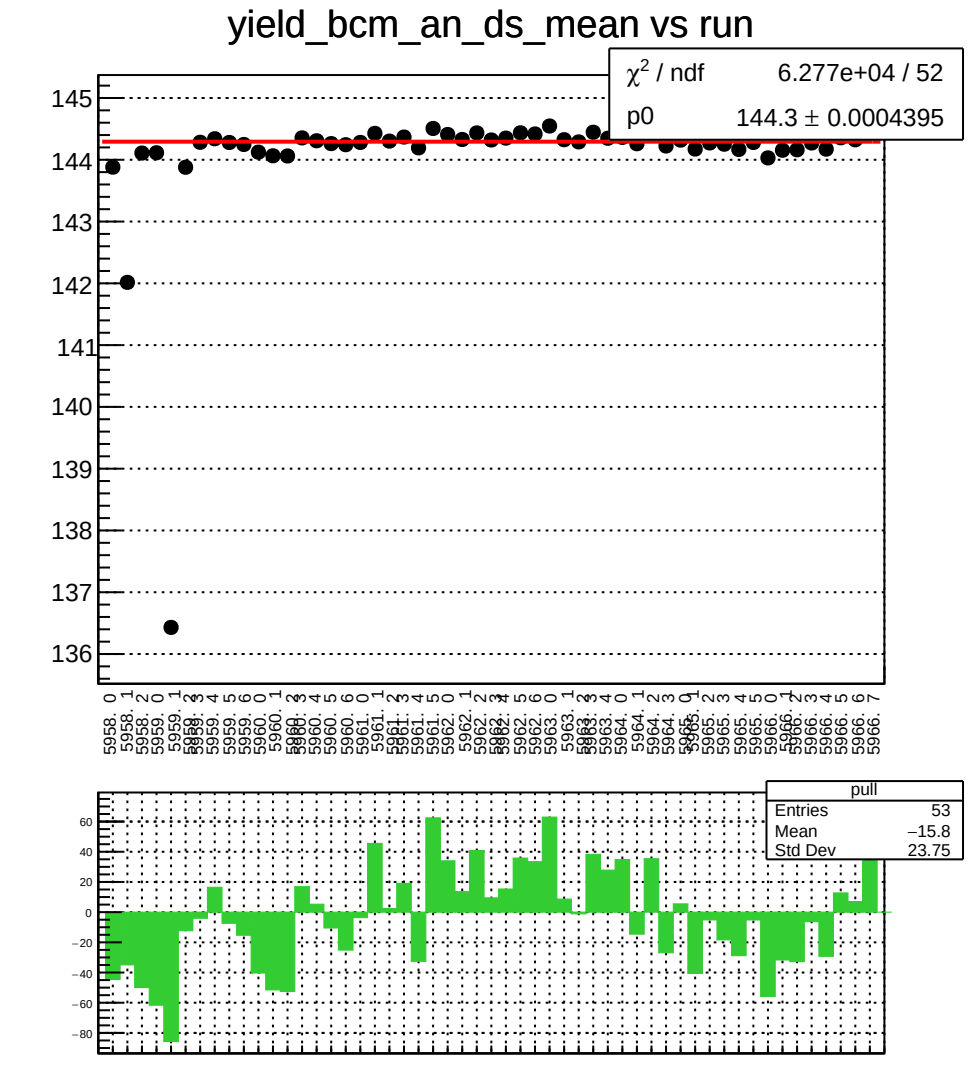

pull1D
Entries 53
Mean −1.042
Std Dev 3.62

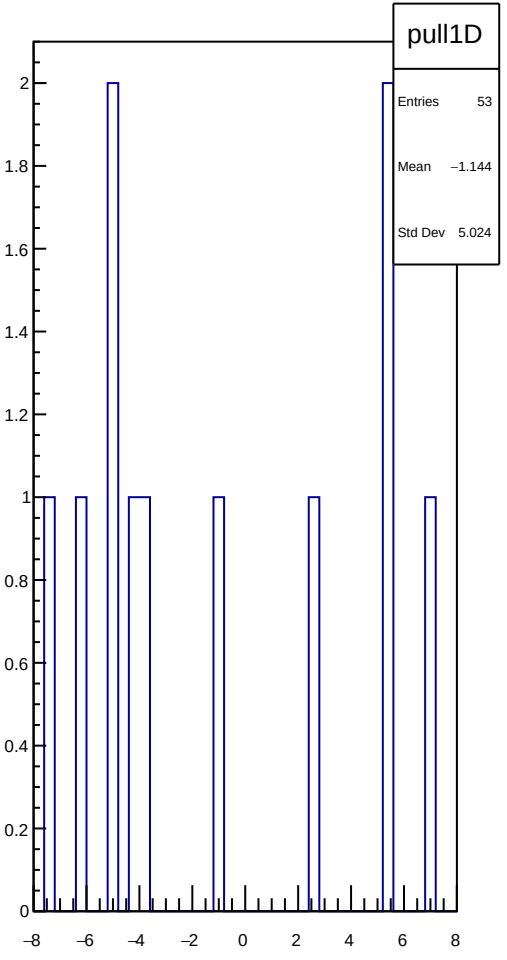

yield_atr1_rms vs run
χ² / ndf 3.365e+04 / 52
p0 0.0001251 ± 1.247e–07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

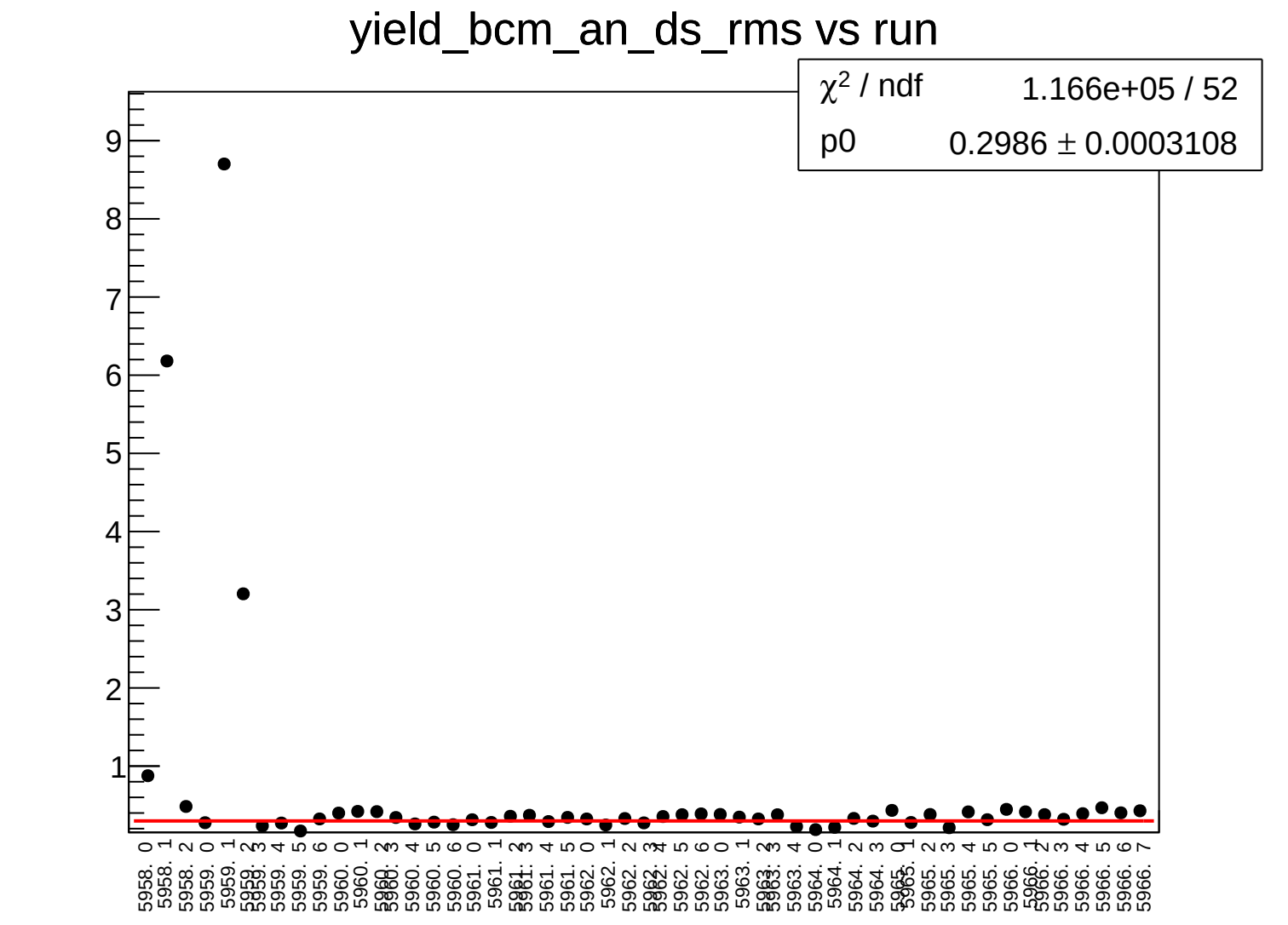

yield_atr2_mean vs run
χ² / ndf 2.982e+04 / 52
p0 0.02591± 3.809e−07
0.02615
0.0261
0.02605
0.026
0.02595
0.0259
0.02585
0.0258
0.02575
0.0257
pull
Entries 53
Mean 253.2
Std Dev 222.9
60
40
20
0
−20
−40

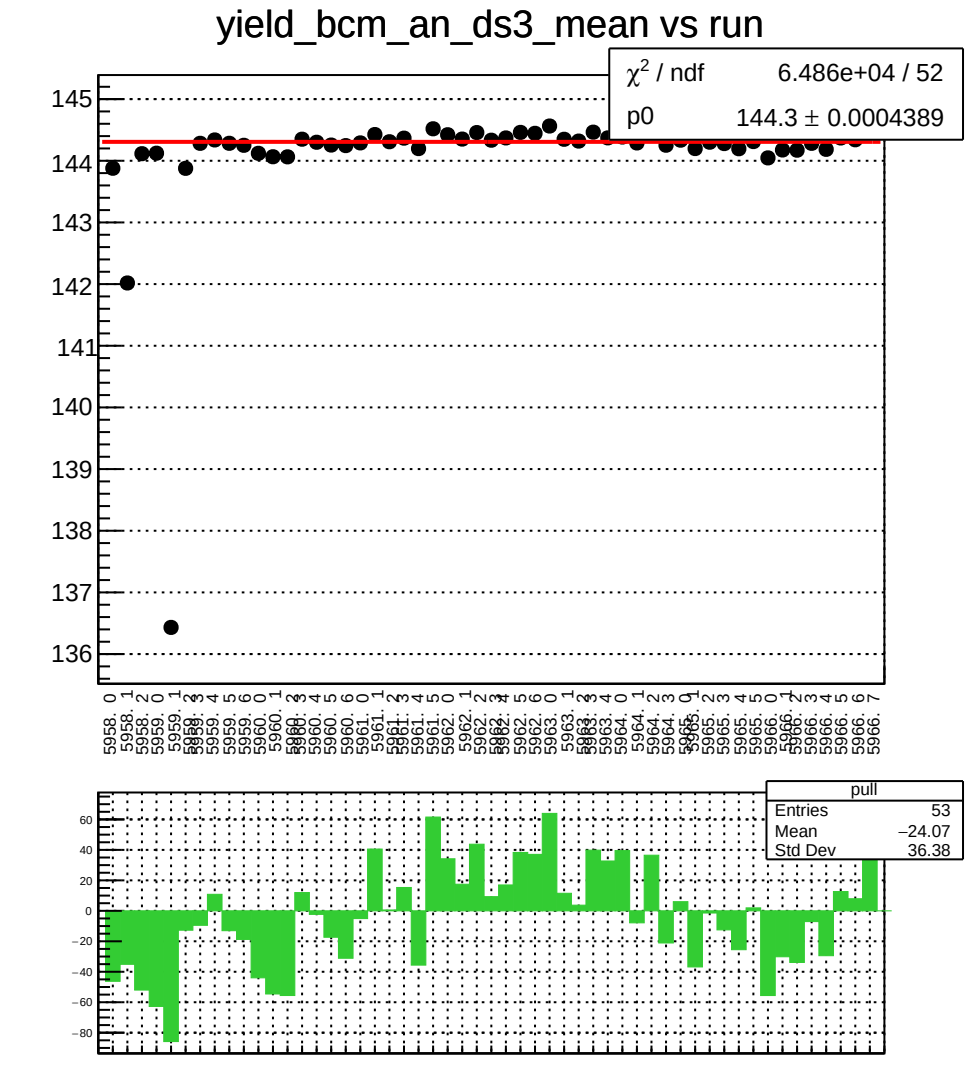

pull1D
Entries 53
Mean 0.03495
Std Dev 4.885
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

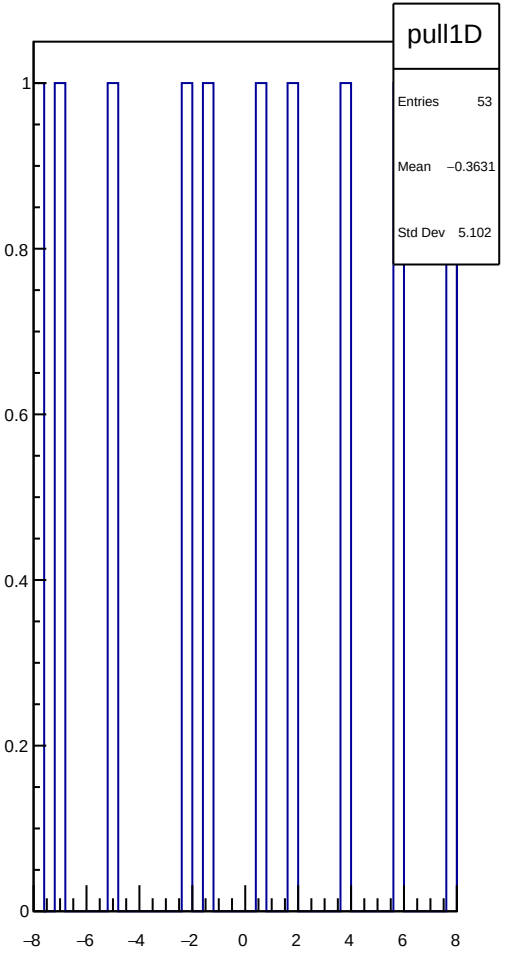

yield_atr2_rms vs run
χ² / ndf 6.248e+04 / 52
p0 0.0002663 ± 2.693e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

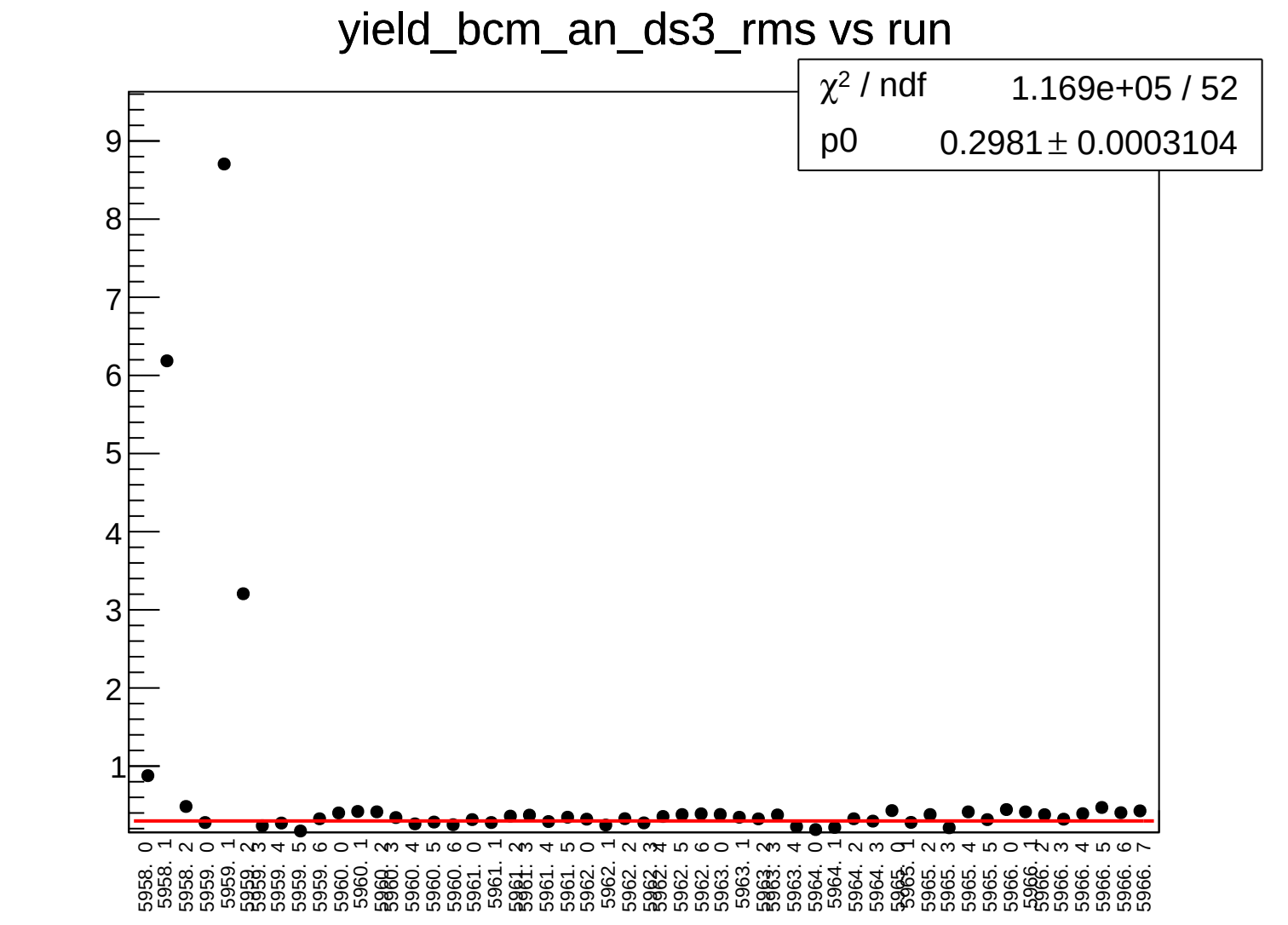

yield_bcm_an_ds_mean vs run
χ² / ndf 6.277e+04 / 52
p0 144.3 ± 0.0004395
pull
Entries 53
Mean −15.8
Std Dev 23.75

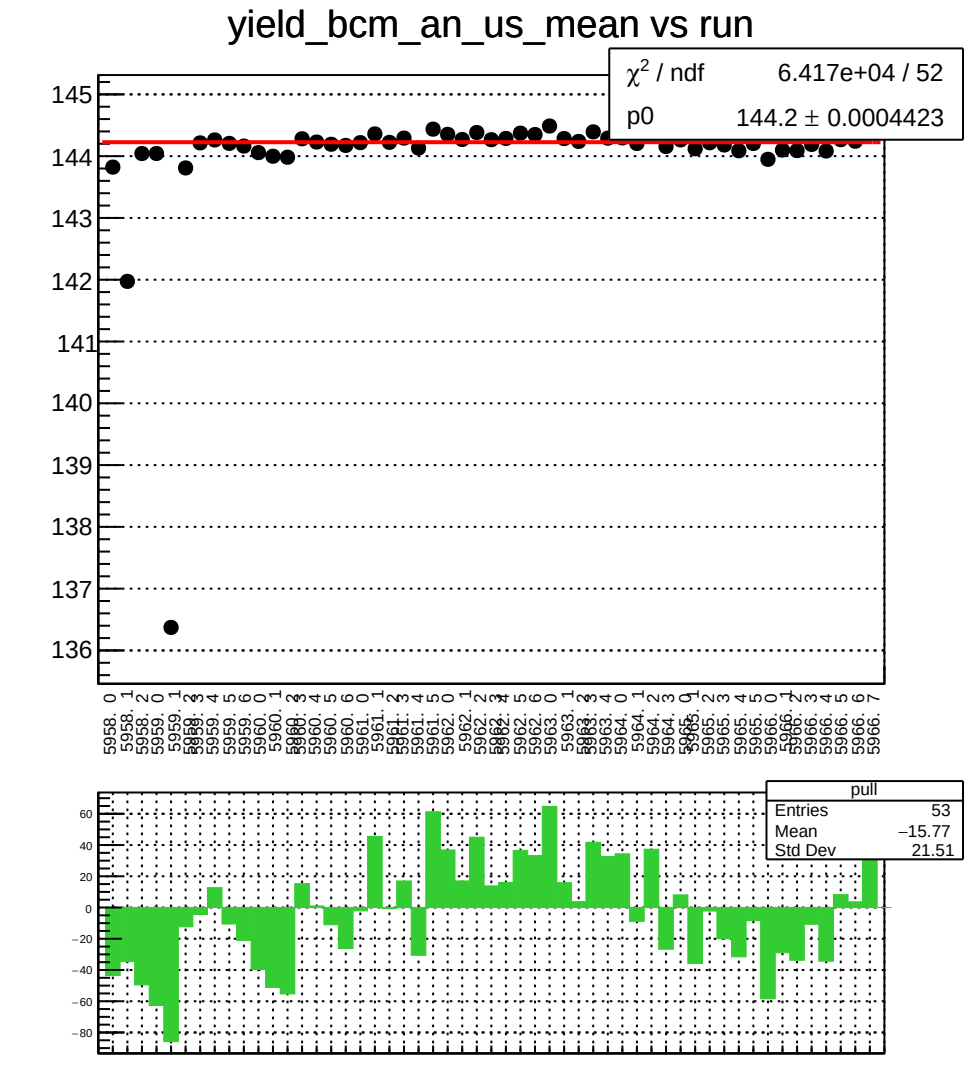

pull1D
Entries 53
Mean −1.144
Std Dev 5.024

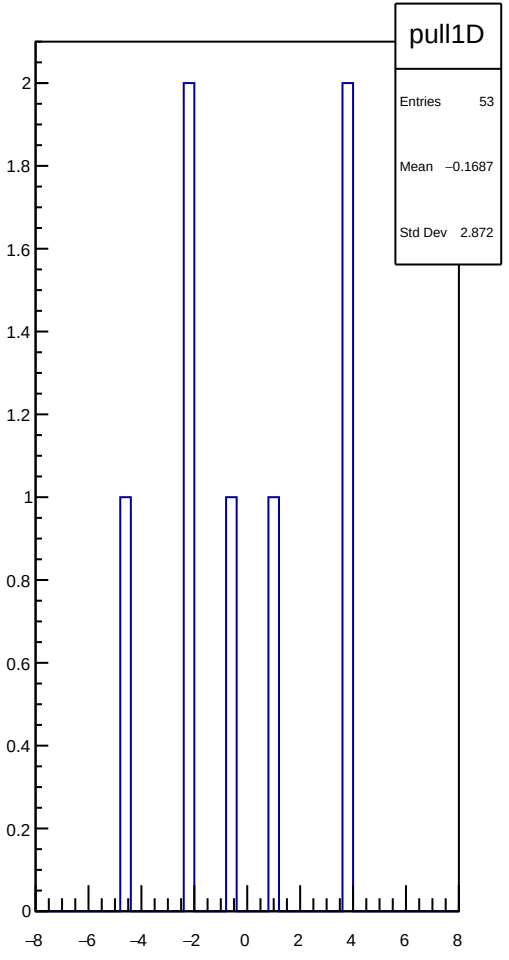

yield_bcm_an_ds_rms vs run
χ² / ndf 1.166e+05 / 52
p0 0.2986 ± 0.0003108
9
8
7
6
5
4
3
2
1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

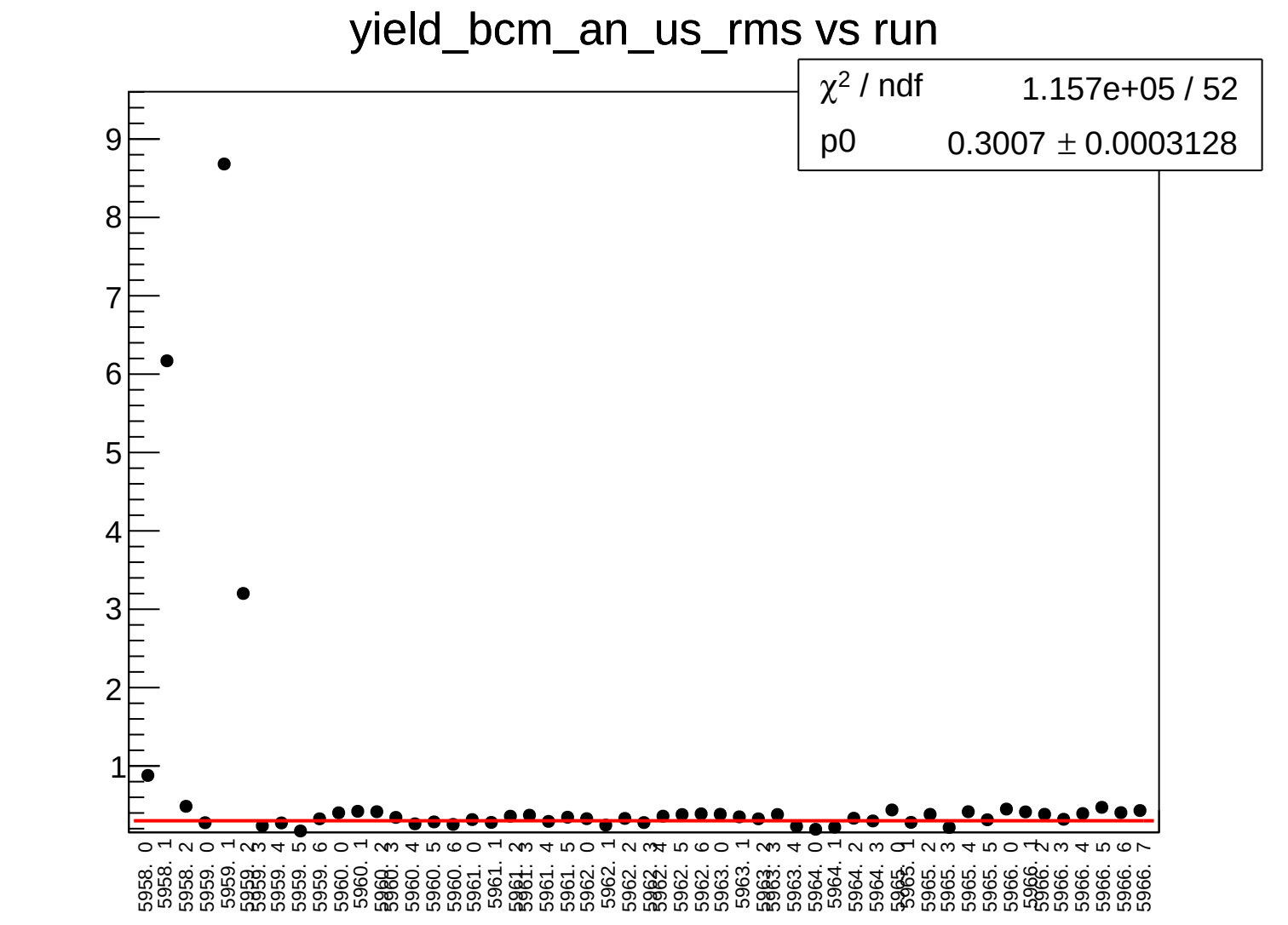

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.486e+04 / 52
p0 144.3 ± 0.0004389
pull
Entries 53
Mean −24.07
Std Dev 36.38

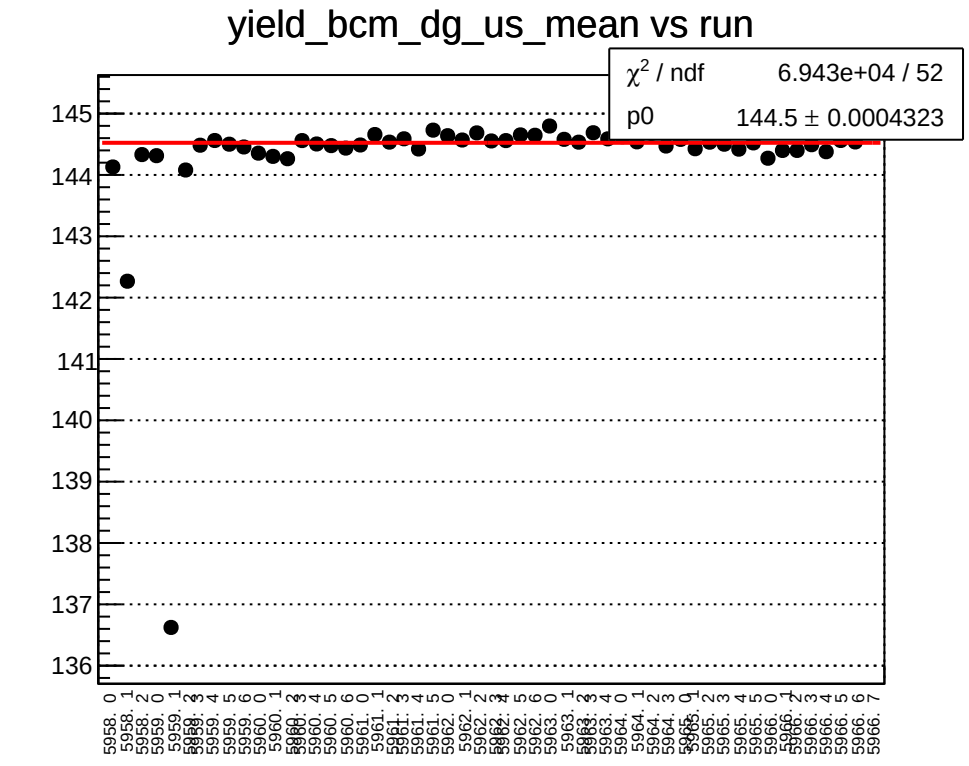

pull1D
Entries 53
Mean −0.3631
Std Dev 5.102

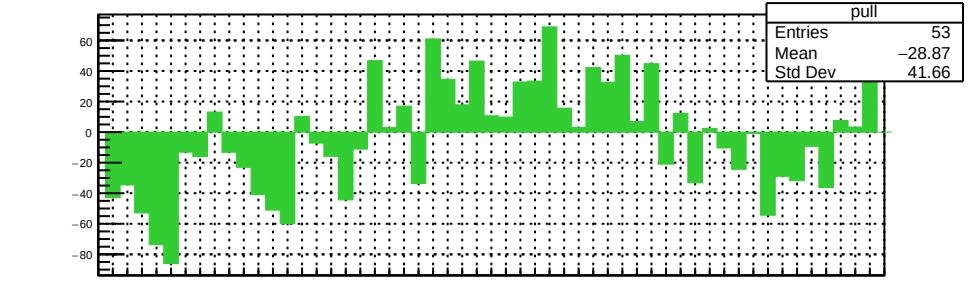

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.169e+05 / 52
p0 0.2981 ± 0.0003104
9
8
7
6
5
4
3
2
1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

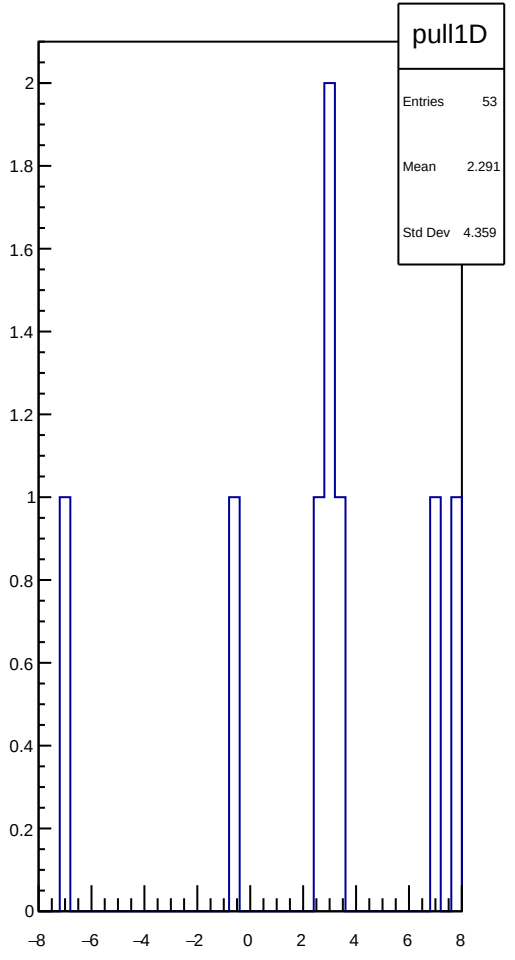

yield_bcm_an_us_mean vs run
χ² / ndf 6.417e+04 / 52
p0 144.2 ± 0.0004423
pull
Entries 53
Mean −15.77
Std Dev 21.51

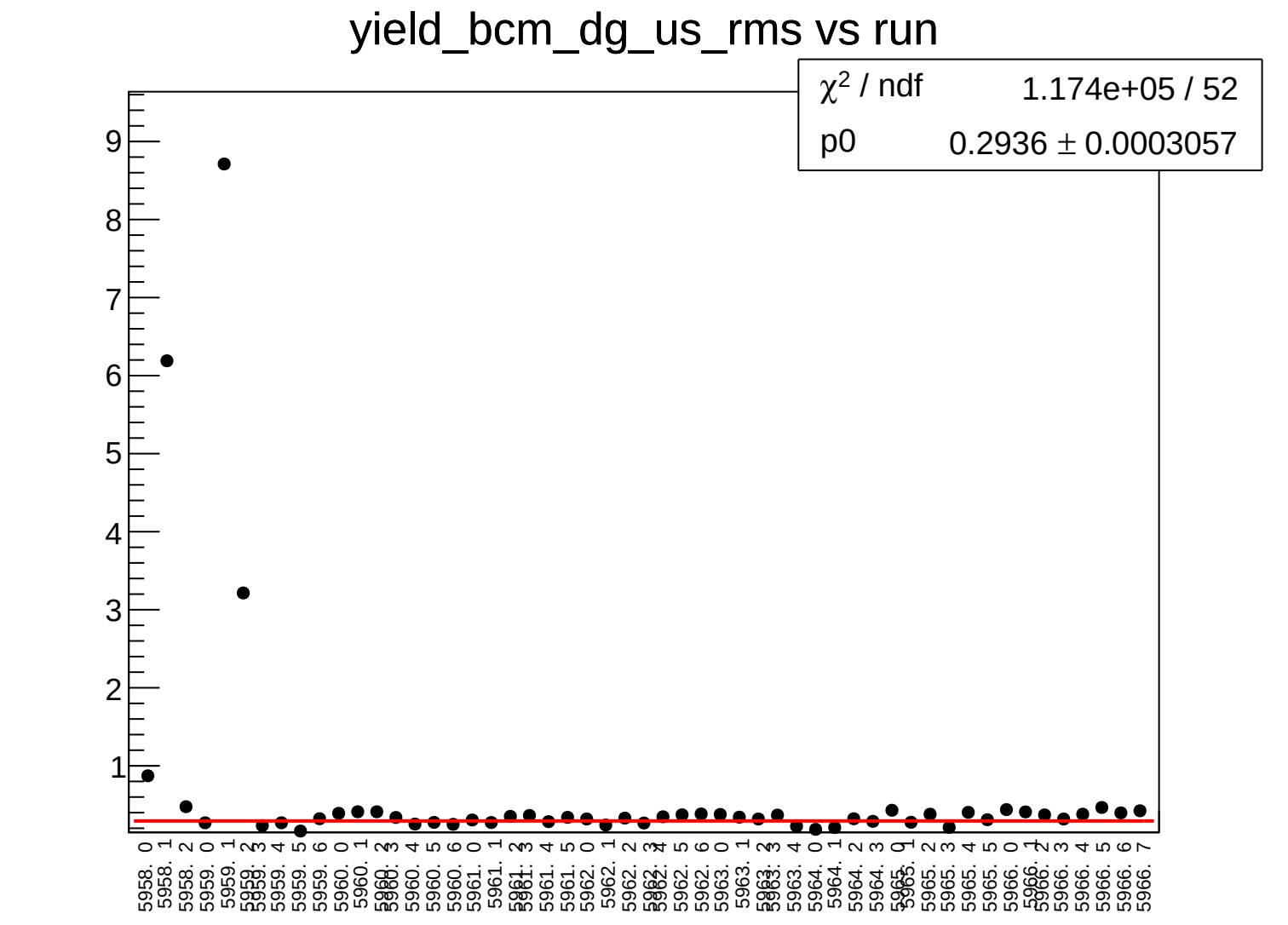

pull1D
Entries 53
Mean −0.1687
Std Dev 2.872

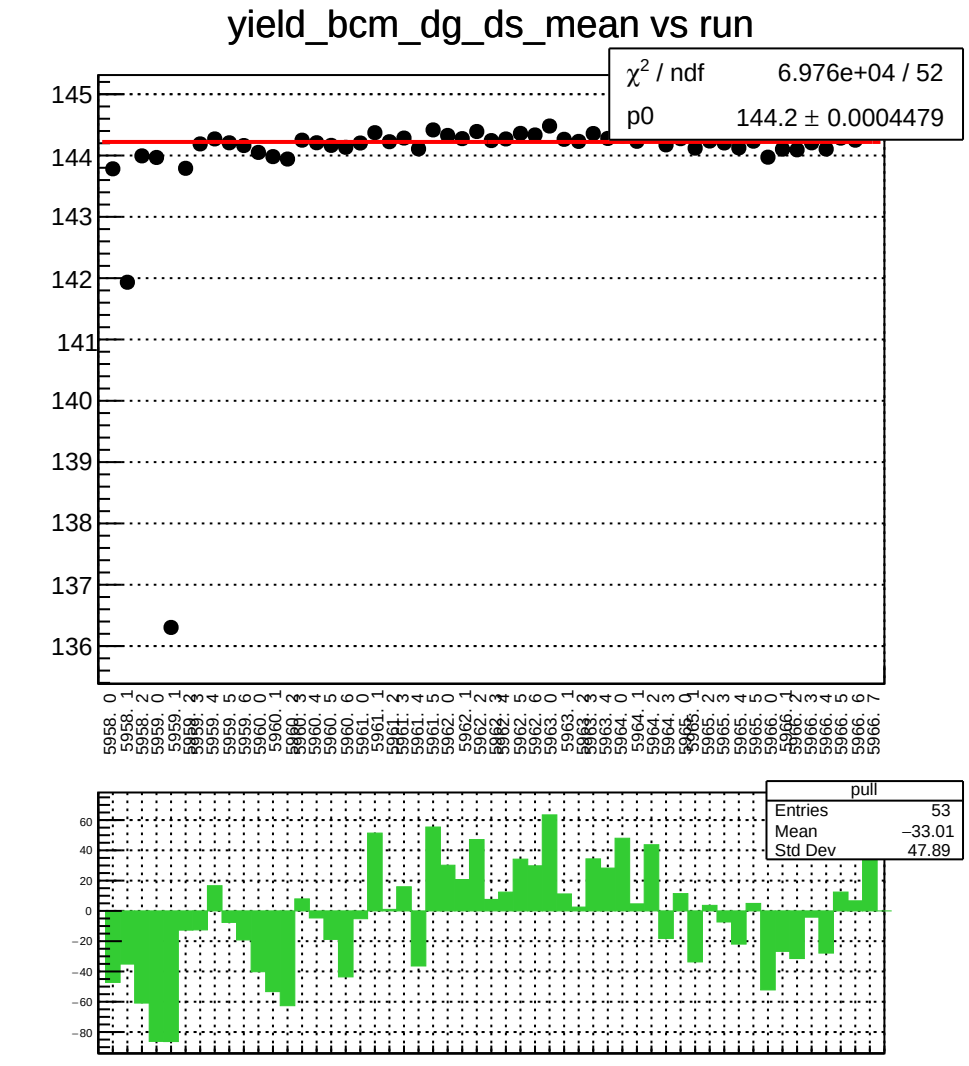

yield_bcm_an_us_rms vs run
χ² / ndf 1.157e+05 / 52
p0 0.3007 ± 0.0003128
9
8
7
6
5
4
3
2
1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

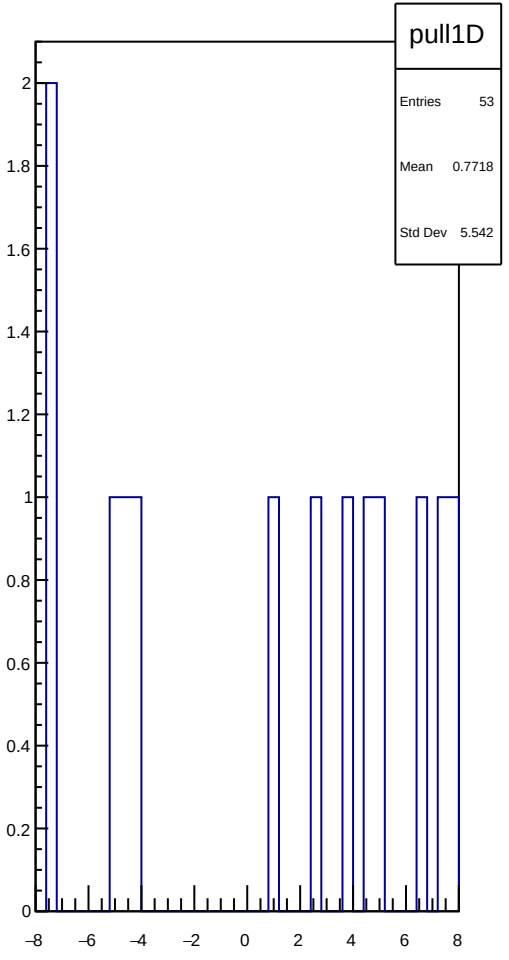

yield_bcm_dg_us_mean vs run
χ² / ndf 6.943e+04 / 52
p0 144.5 ± 0.0004323
145
144
143
142
141
140
139
138
137
136

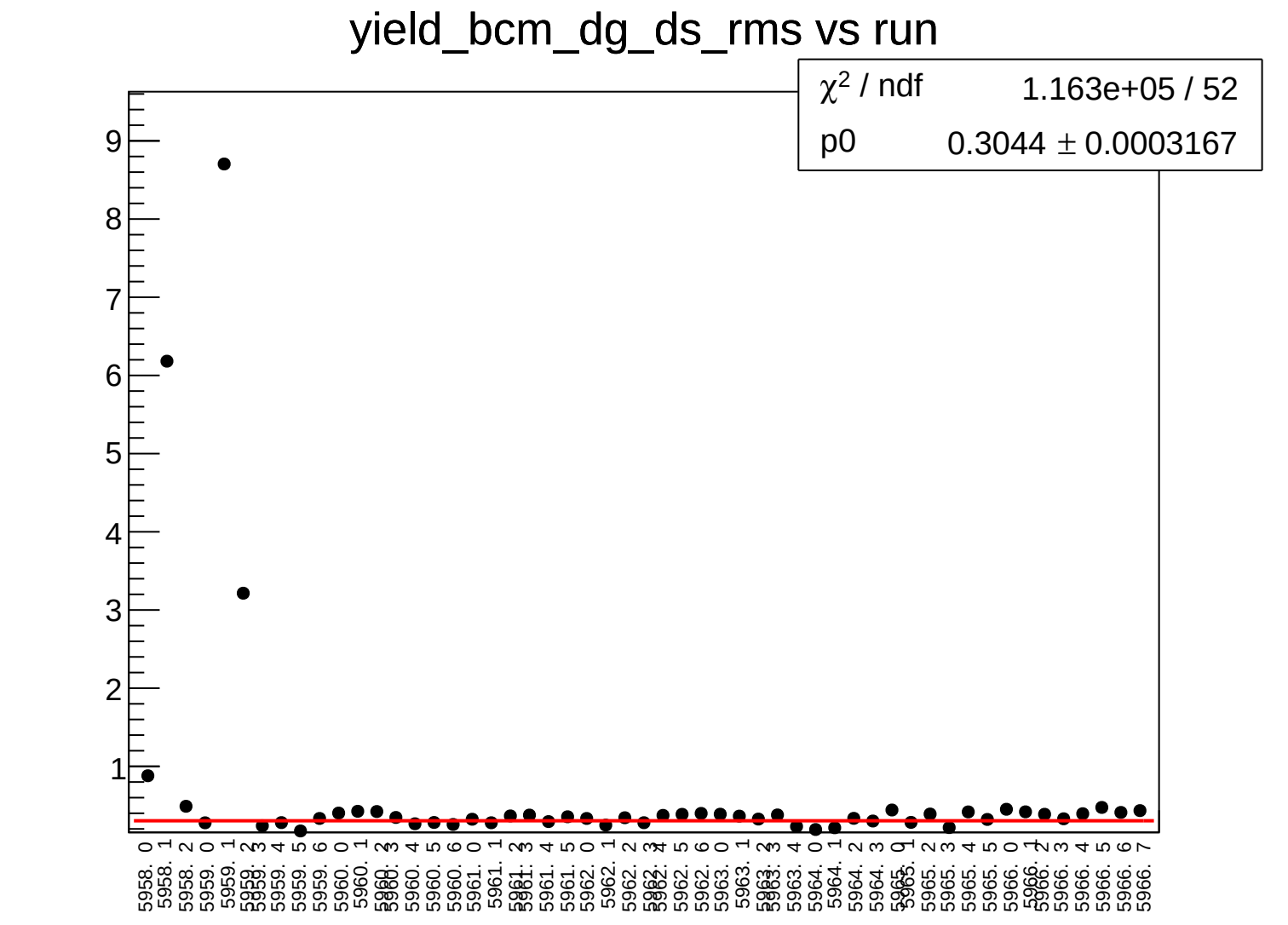

pull
Entries 53
Mean −28.87
Std Dev 41.66
60
40
20
0
−20
−40
−60
−80

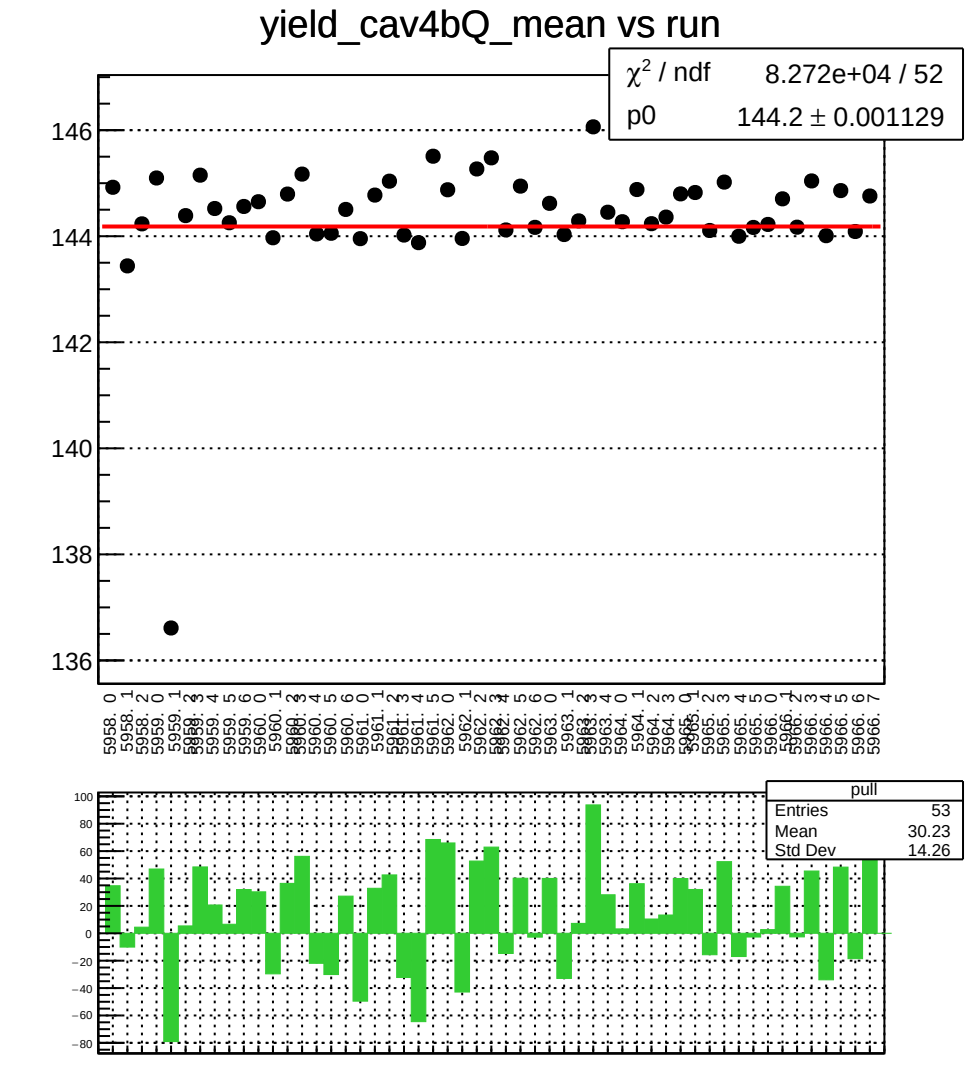

pull1D
Entries 53
Mean 2.291
Std Dev 4.359
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

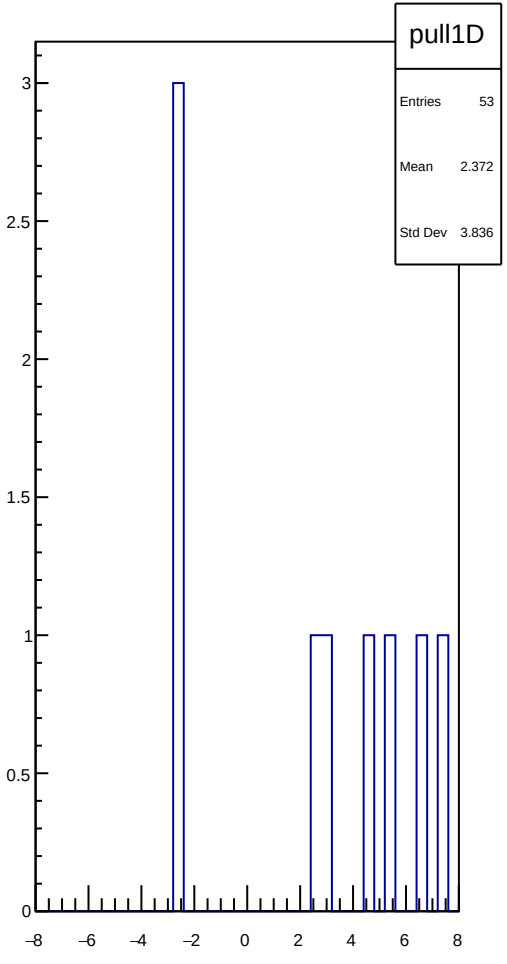

yield_bcm_dg_us_rms vs run
χ² / ndf 1.174e+05 / 52
p0 0.2936 ± 0.0003057
9
8
7
6
5
4
3
2
1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

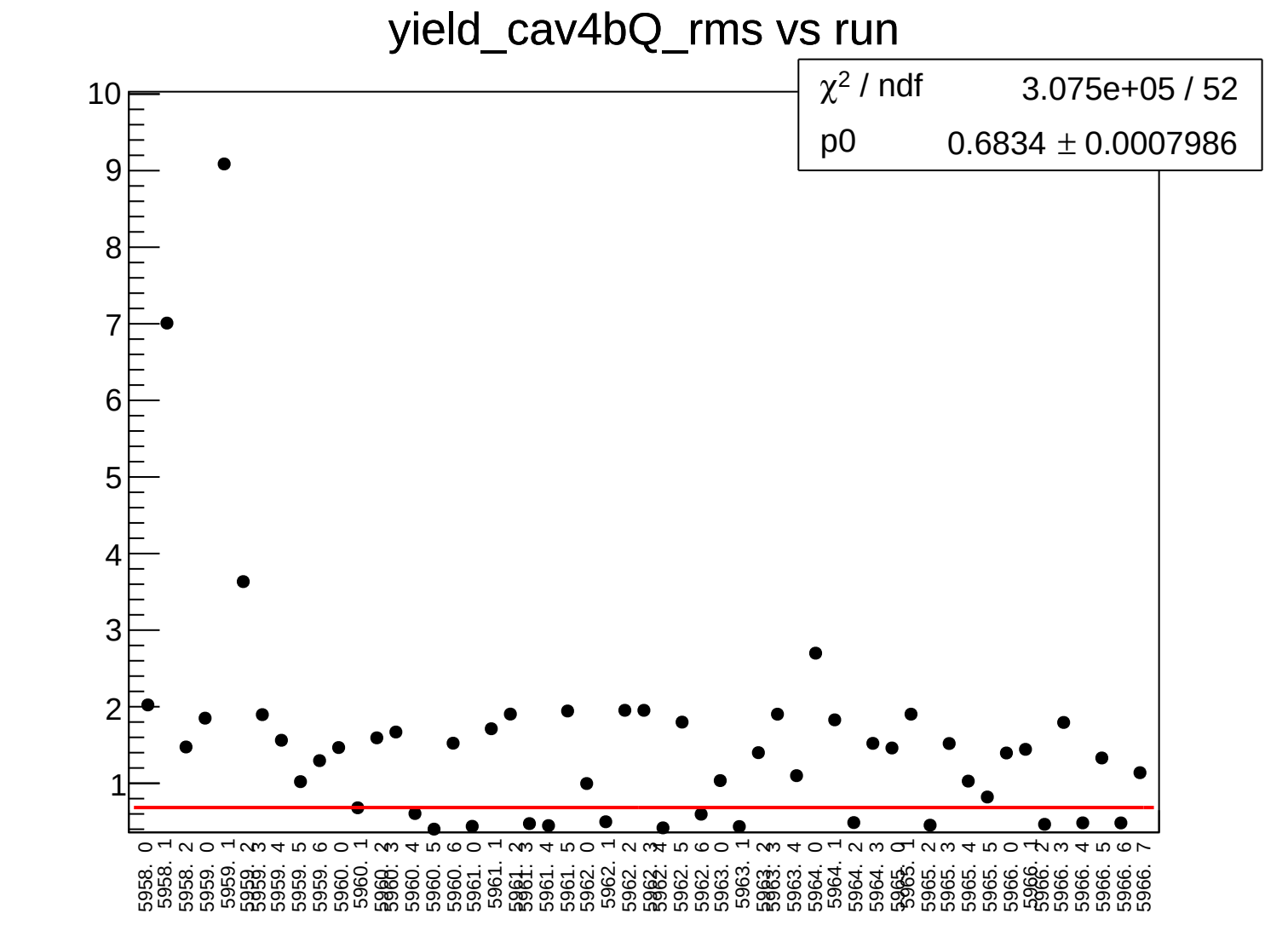

yield_bcm_dg_ds_mean vs run
χ² / ndf 6.976e+04 / 52
p0 144.2 ± 0.0004479
145
144
143
142
141
140
139
138
137
136
pull
Entries 53
Mean −33.01
Std Dev 47.89
60
40
20
0
−20
−40
−60
−80

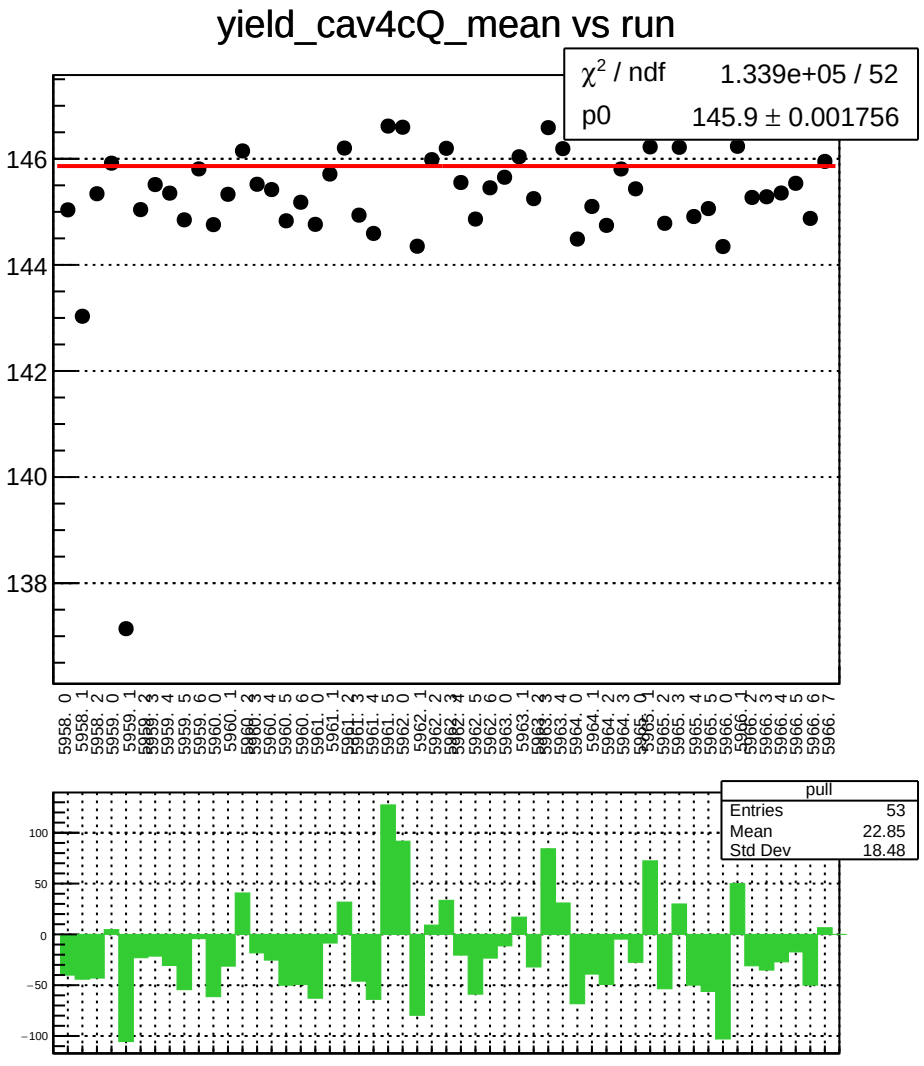

pull1D
Entries 53
Mean 0.7718
Std Dev 5.542
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

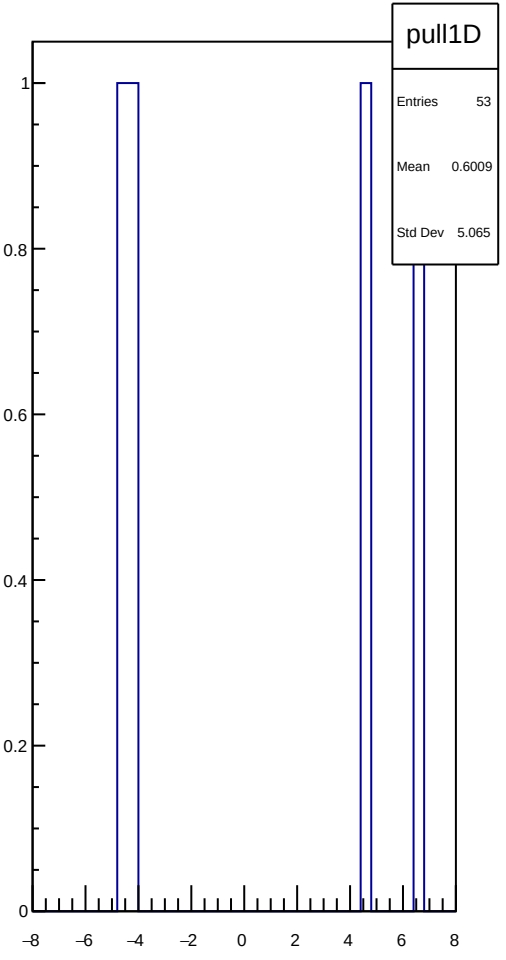

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.163e+05 / 52
p0 0.3044 ± 0.0003167
9
8
7
6
5
4
3
2
1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

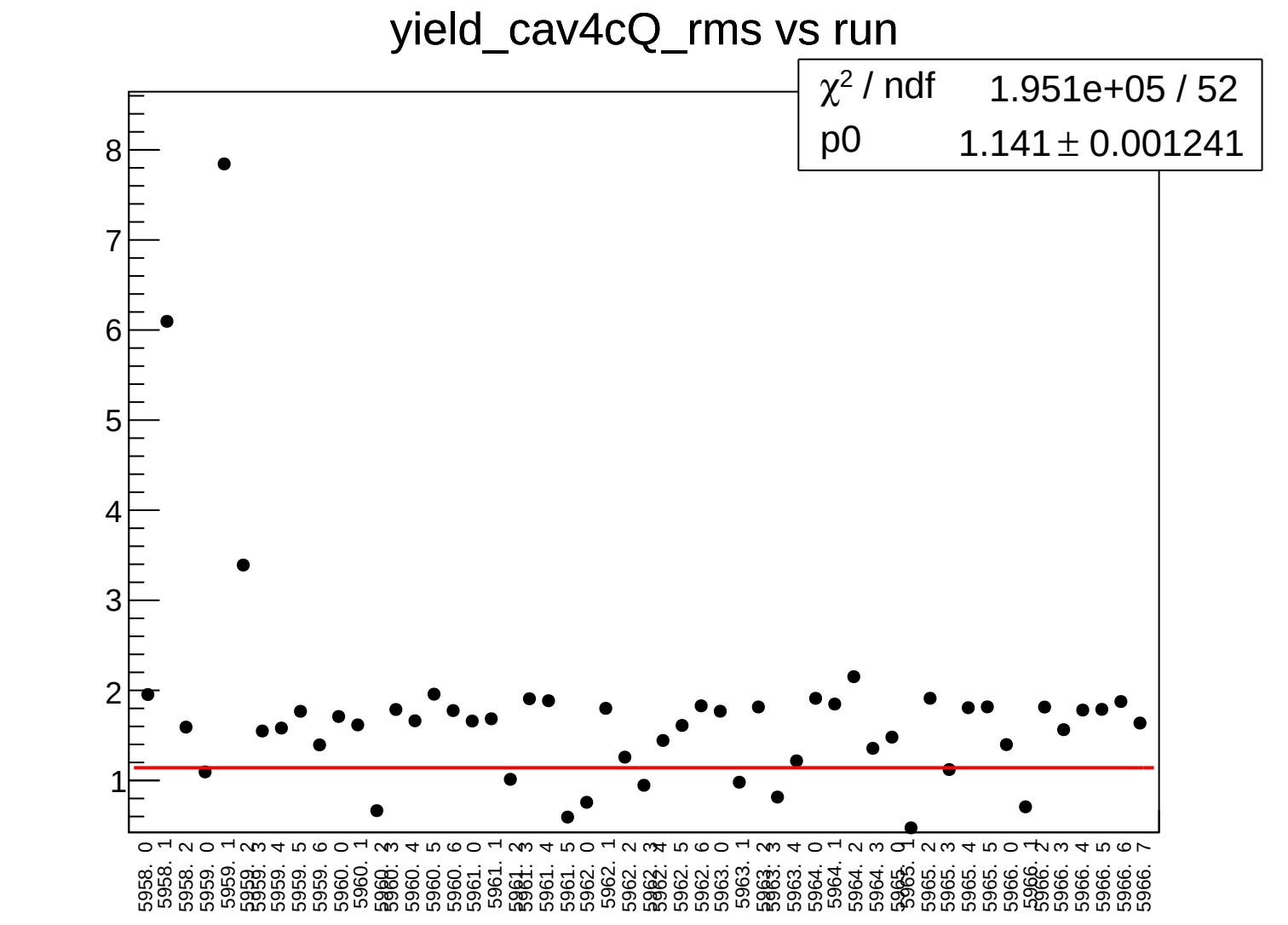

yield_cav4bQ_mean vs run
χ² / ndf 8.272e+04 / 52
p0 144.2 ± 0.001129
146
144
142
140
138
136
pull
Entries 53
Mean 30.23
Std Dev 14.26
100
80
60
40
20
0
−20
−40
−60
−80

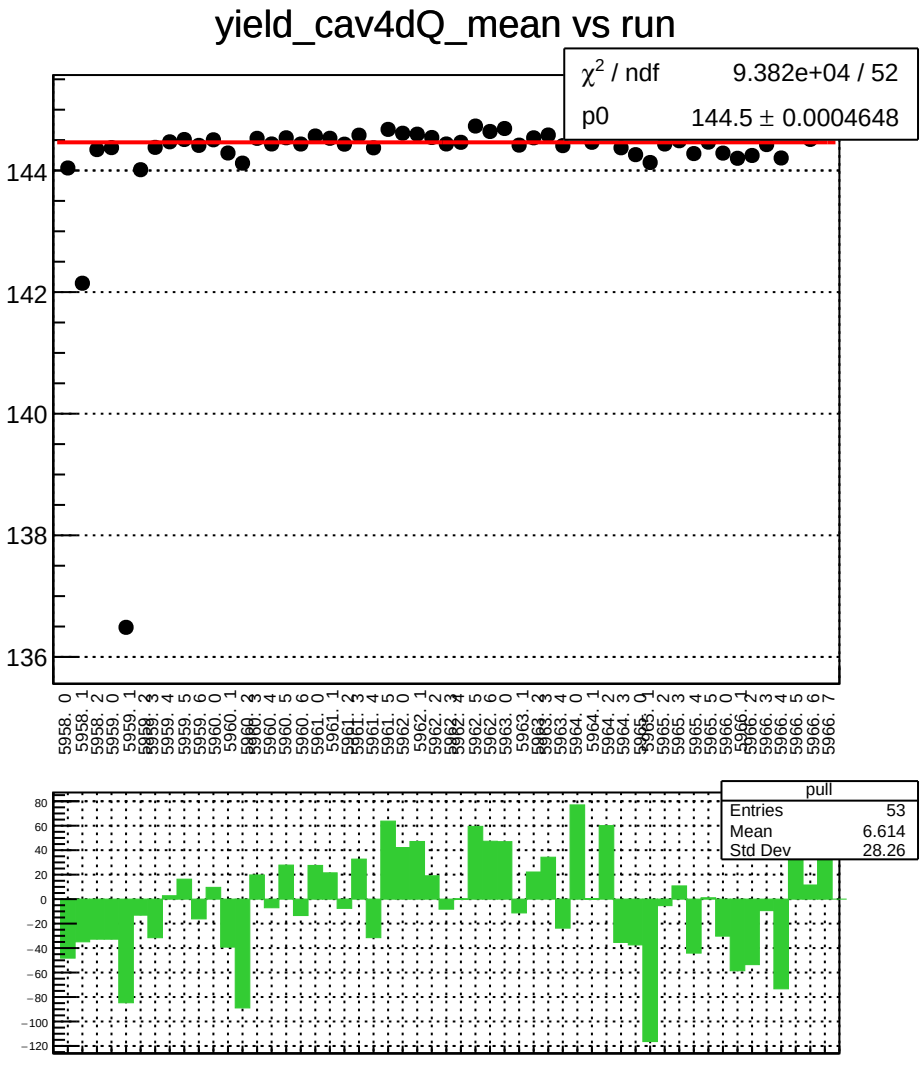

pull1D
Entries 53
Mean 2.372
Std Dev 3.836
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

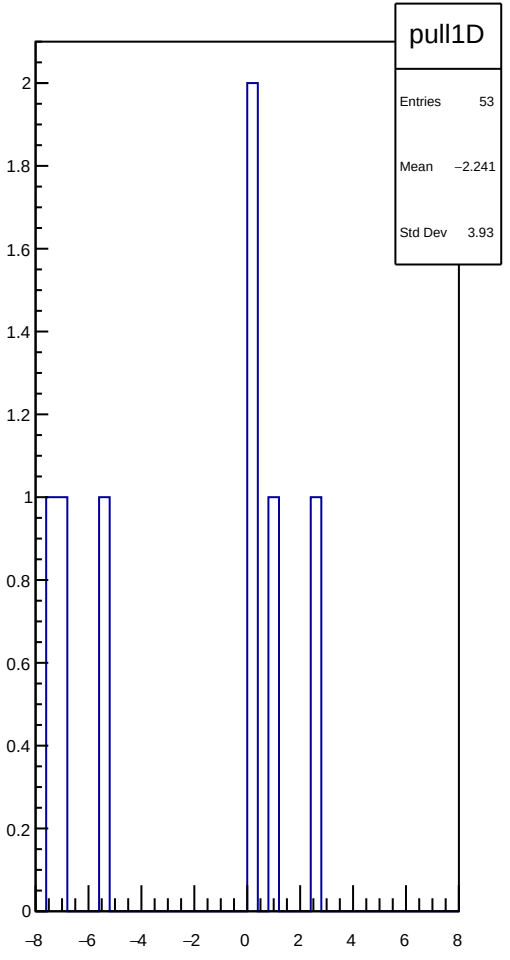

yield_cav4bQ_rms vs run
χ² / ndf 3.075e+05 / 52
p0 0.6834 ± 0.0007986
10
9
8
7
6
5
4
3
2
1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

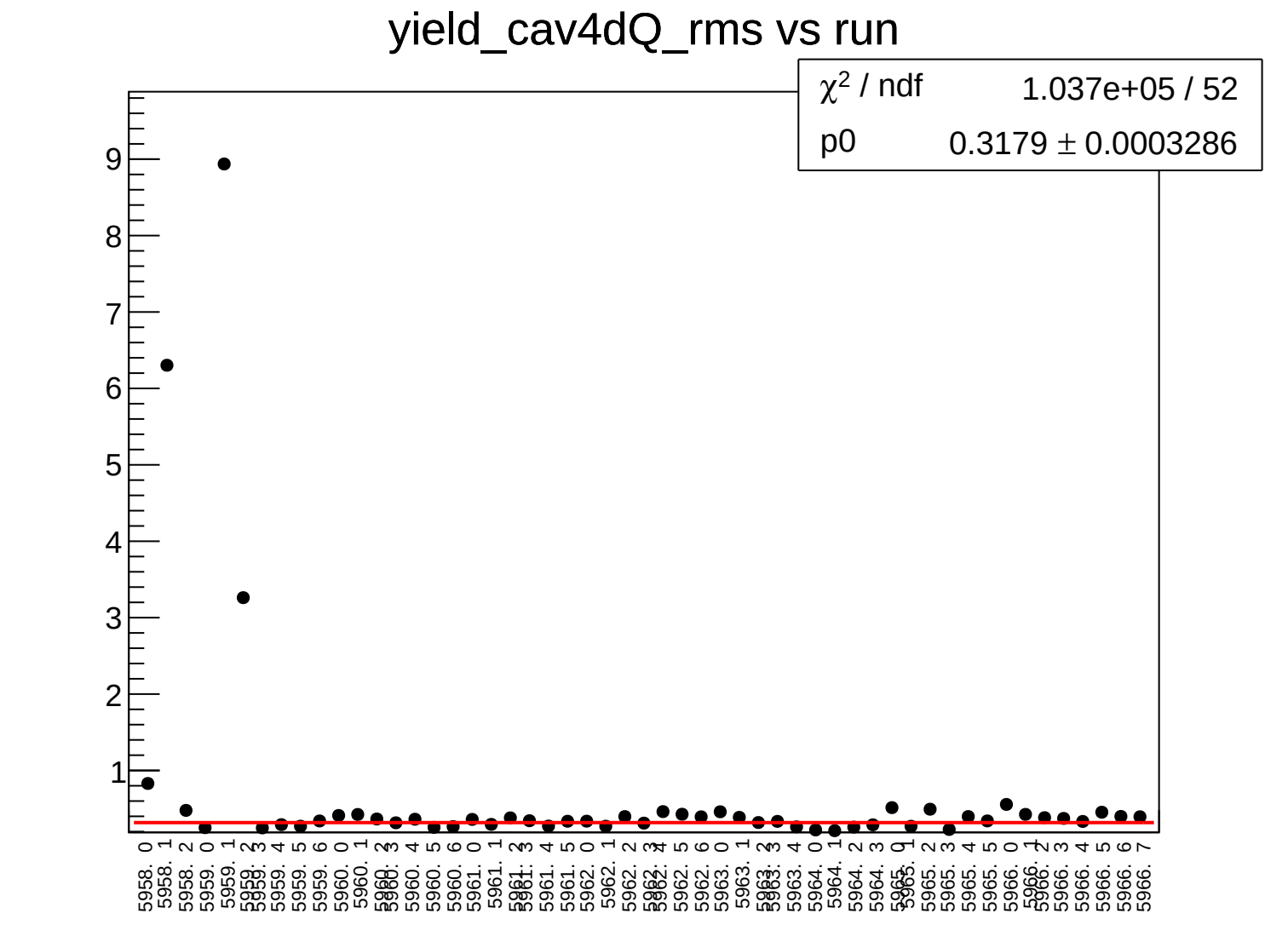

yield_cav4cQ_mean vs run
χ² / ndf 1.339e+05 / 52
p0 145.9 ± 0.001756
146
144
142
140
138
pull
Entries 53
Mean 22.85
Std Dev 18.48
100
50
0
−50
−100

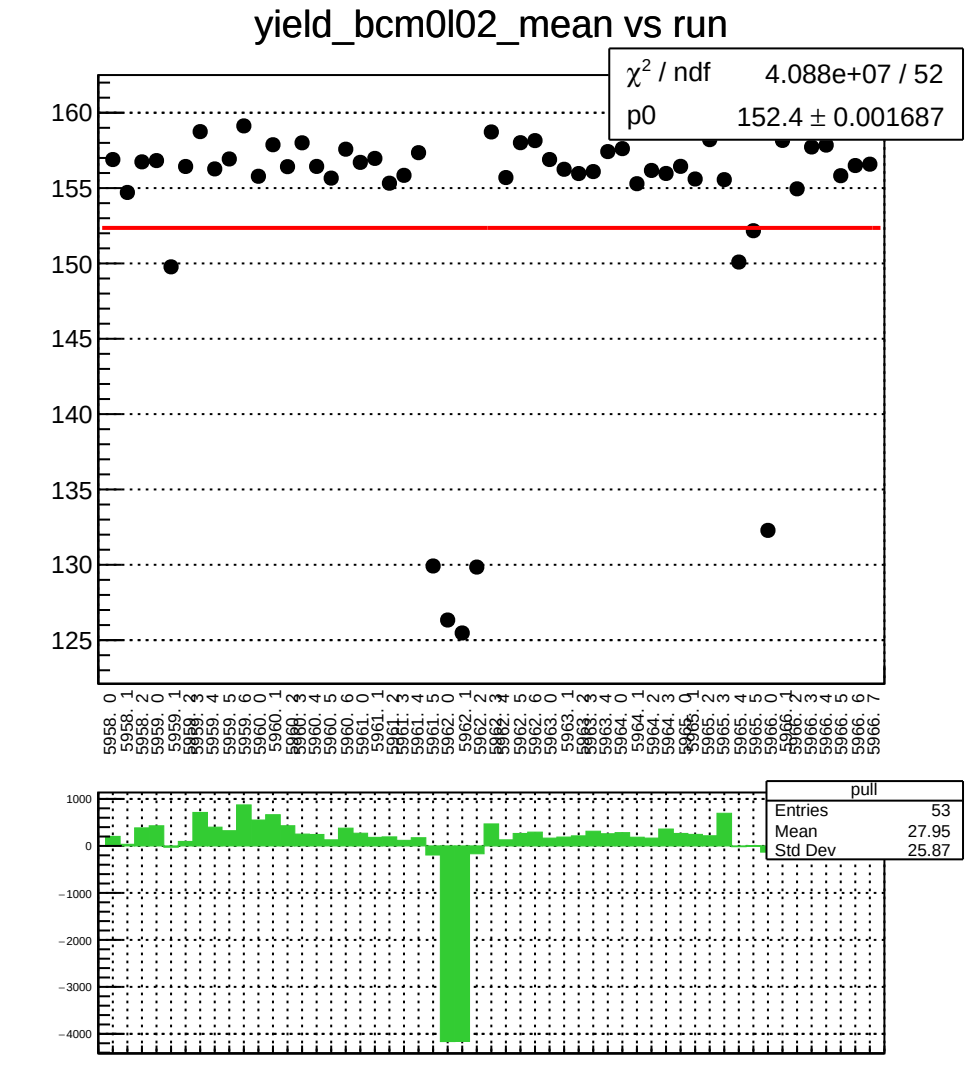

pull1D
Entries 53
Mean 0.6009
Std Dev 5.065
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

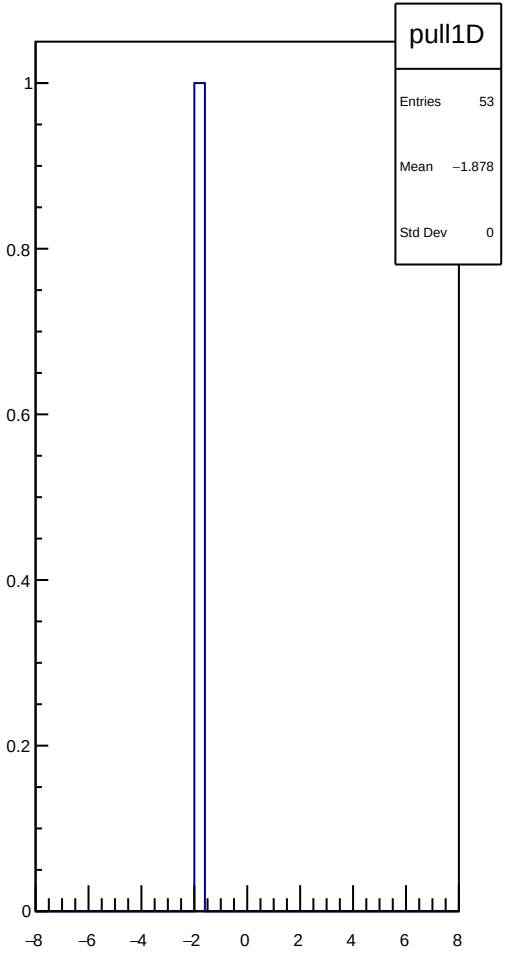

yield_cav4cQ_rms vs run
χ² / ndf 1.951e+05 / 52
p0 1.141 ± 0.001241
8
7
6
5
4
3
2
1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5964. 4
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

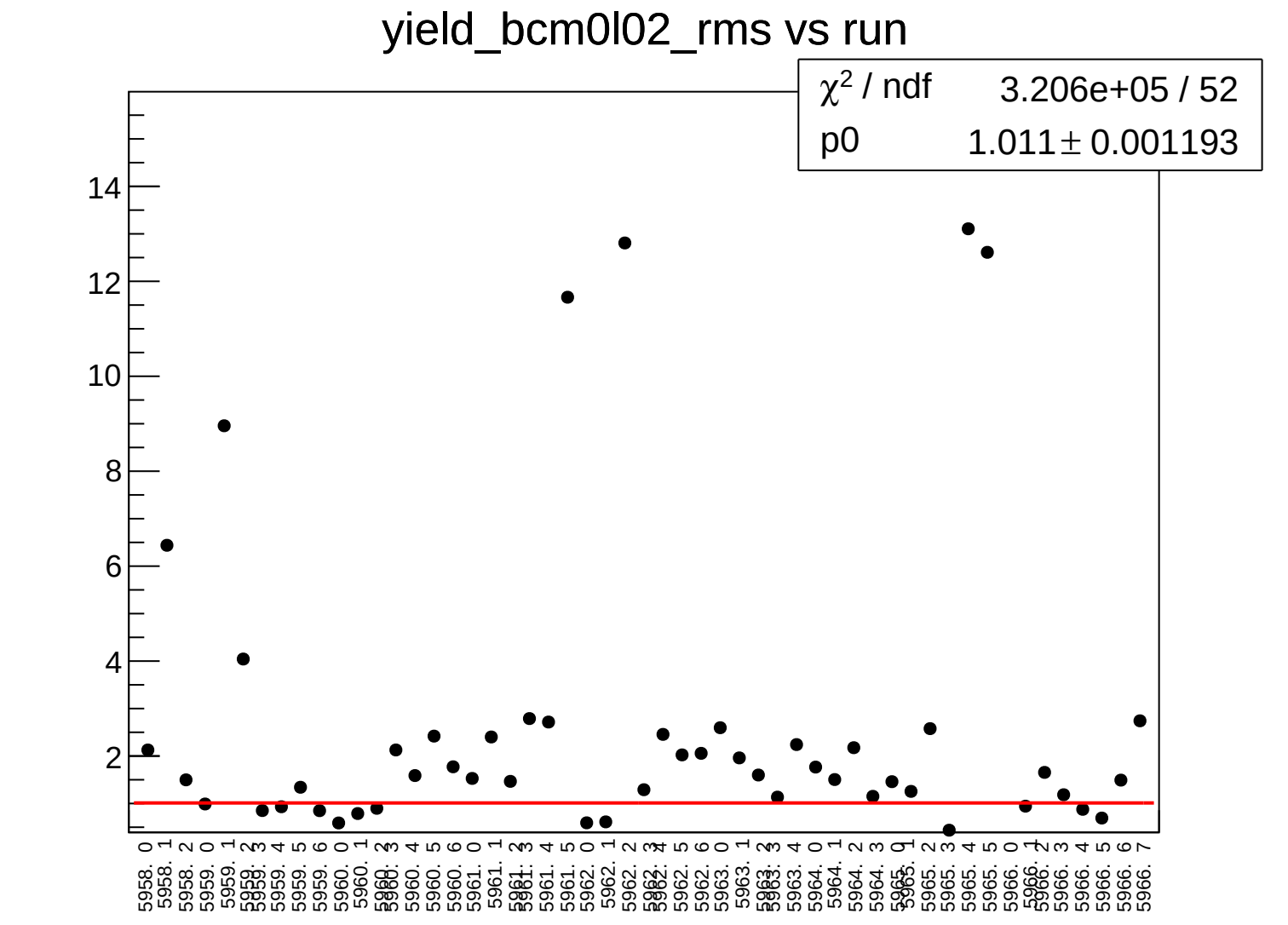

yield_cav4dQ_mean vs run
χ² / ndf 9.382e+04 / 52
p0 144.5 ± 0.0004648
144
142
140
138
136
pull
Entries 53
Mean 6.614
Std Dev 28.26

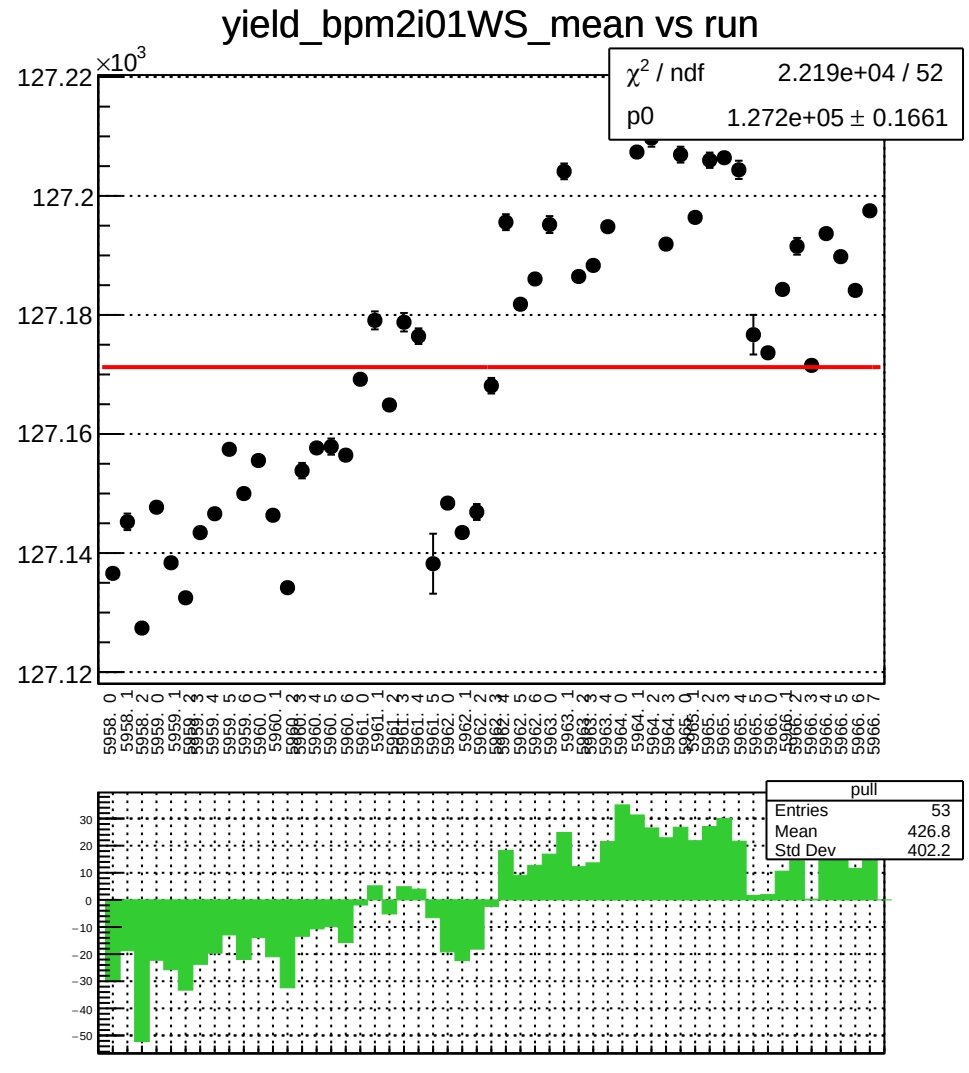

pull1D
Entries 53
Mean −2.241
Std Dev 3.93

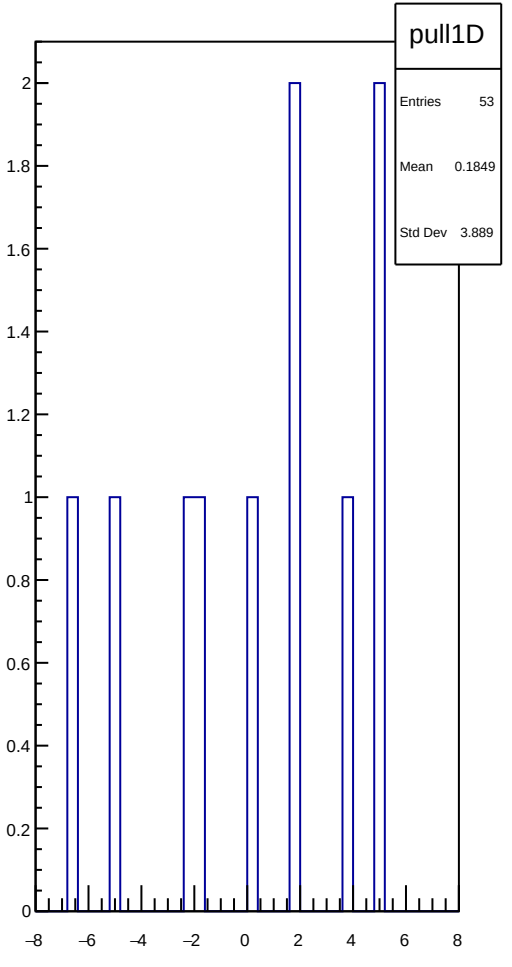

yield_cav4dQ_rms vs run
χ² / ndf 1.037e+05 / 52
p0 0.3179 ± 0.0003286
9
8
7
6
5
4
3
2
1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

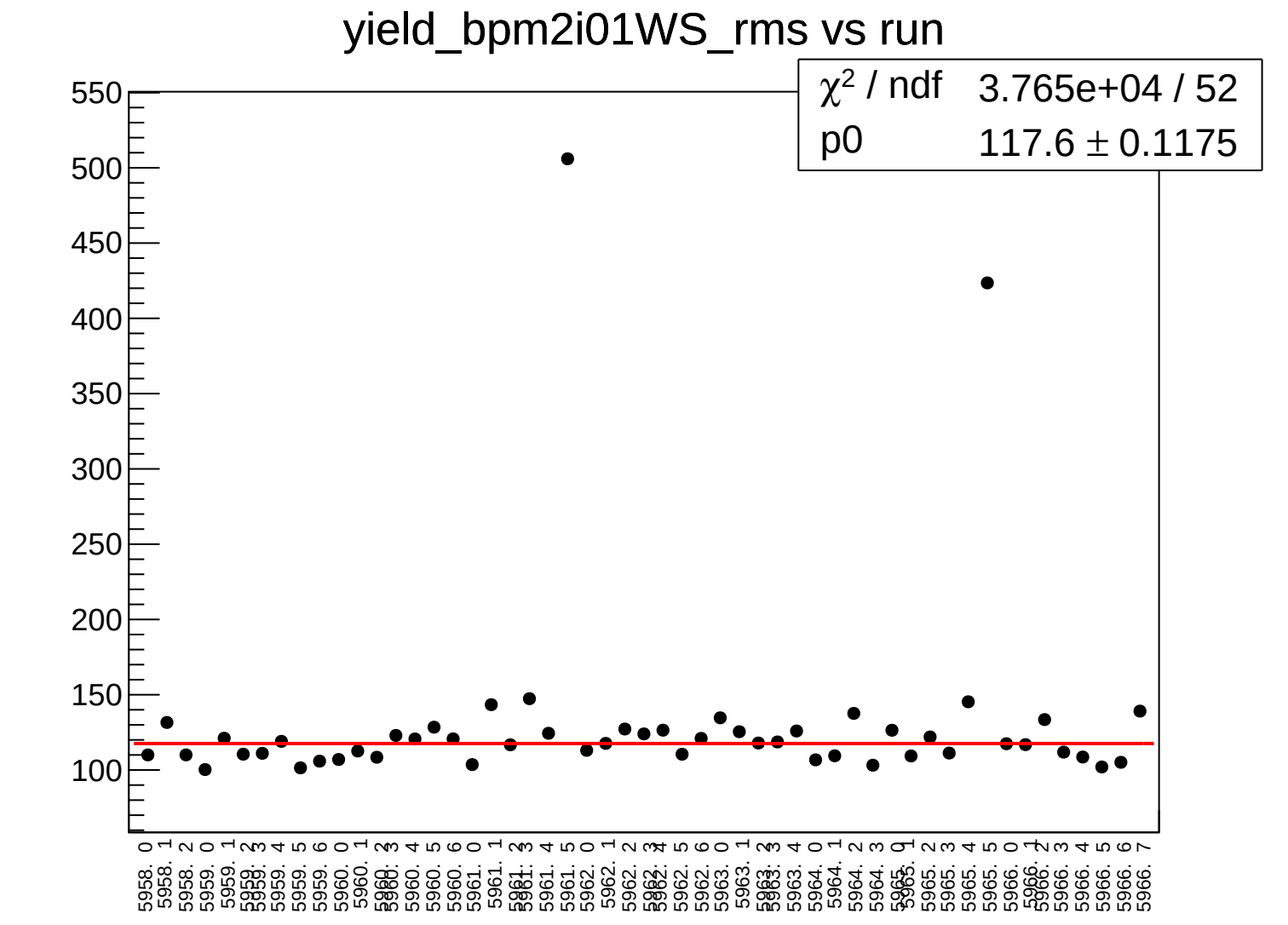

yield_bcm0l02_mean vs run
χ² / ndf 4.088e+07 / 52
p0 152.4 ± 0.001687
160
155
150
145
140
135
130
125
pull
Entries 53
Mean 27.95
Std Dev 25.87
1000
0
−1000
−2000
−3000
−4000

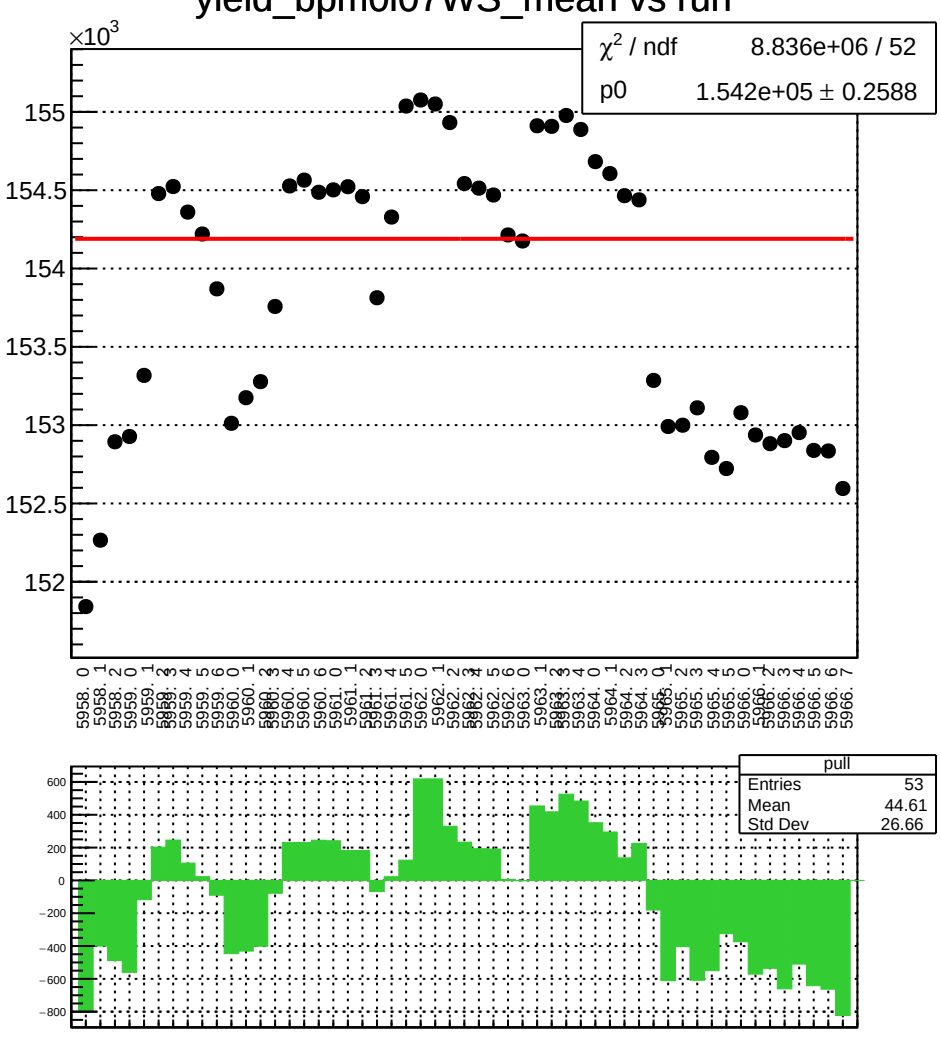

pull1D
Entries 53
Mean −1.878
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

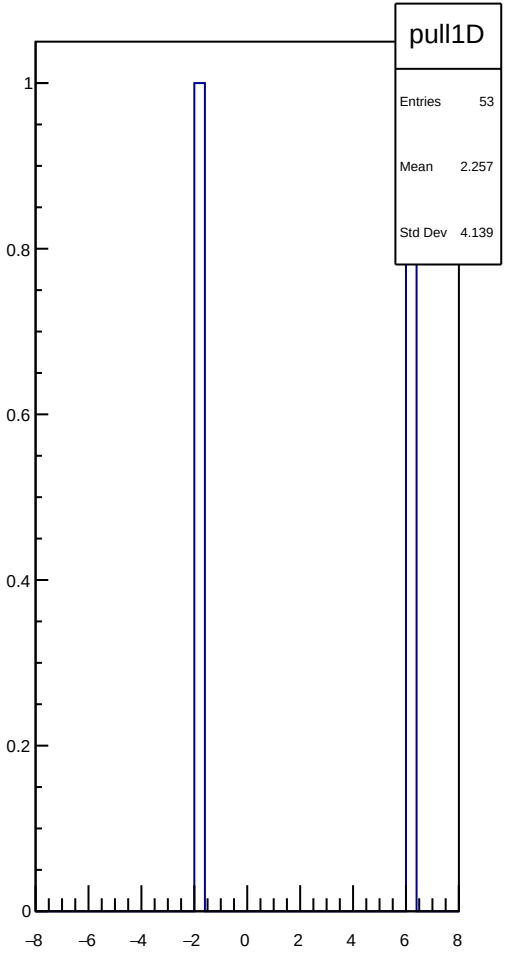

yield_bcm0l02_rms vs run
χ² / ndf 3.206e+05 / 52
p0 1.011 ± 0.001193
14
12
10
8
6
4
2
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

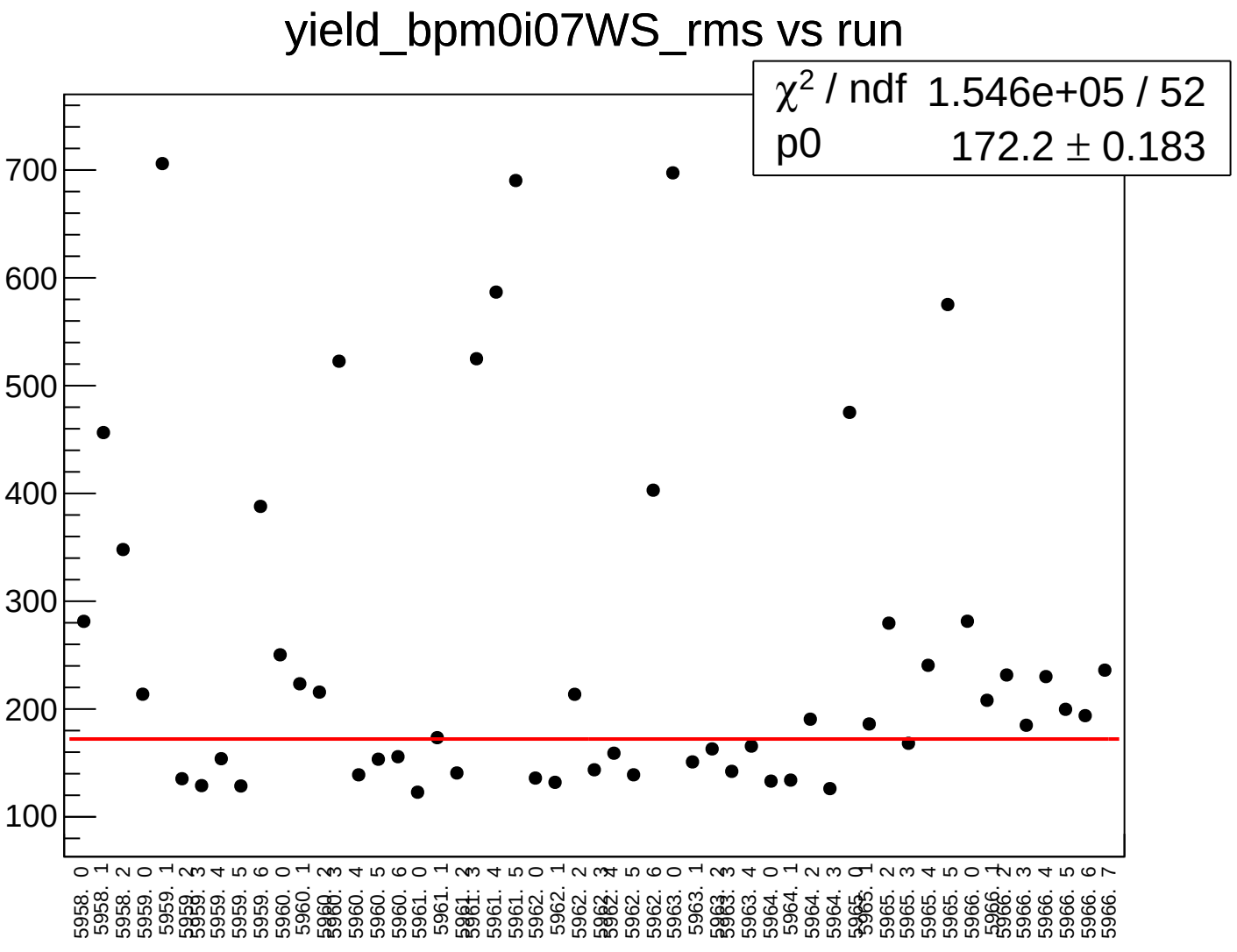

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.219e+04 / 52
p0 1.272e+05 ± 0.1661
127.22
127.2
127.18
127.16
127.14
127.12
pull
Entries 53
Mean 426.8
Std Dev 402.2
30
20
10
0
−10
−20
−30
−40
−50

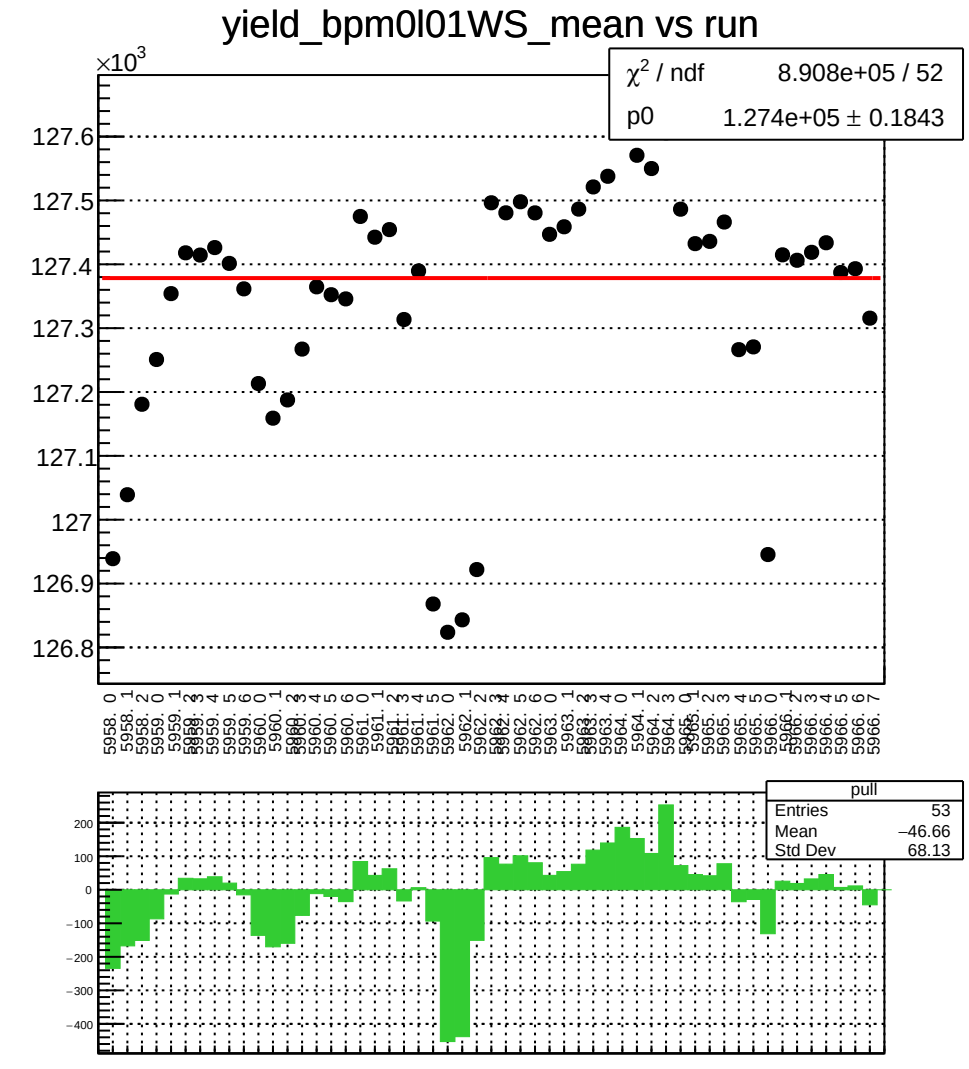

pull1D
Entries 53
Mean 0.1849
Std Dev 3.889
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

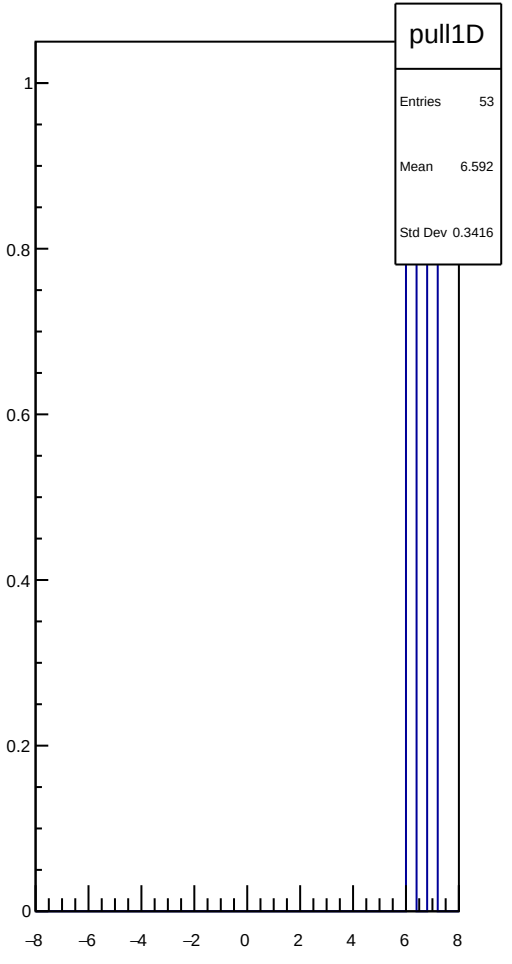

yield_bpm2i01WS_rms vs run
χ² / ndf 3.765e+04 / 52
p0 117.6 ± 0.1175
550
500
450
400
350
300
250
200
150
100

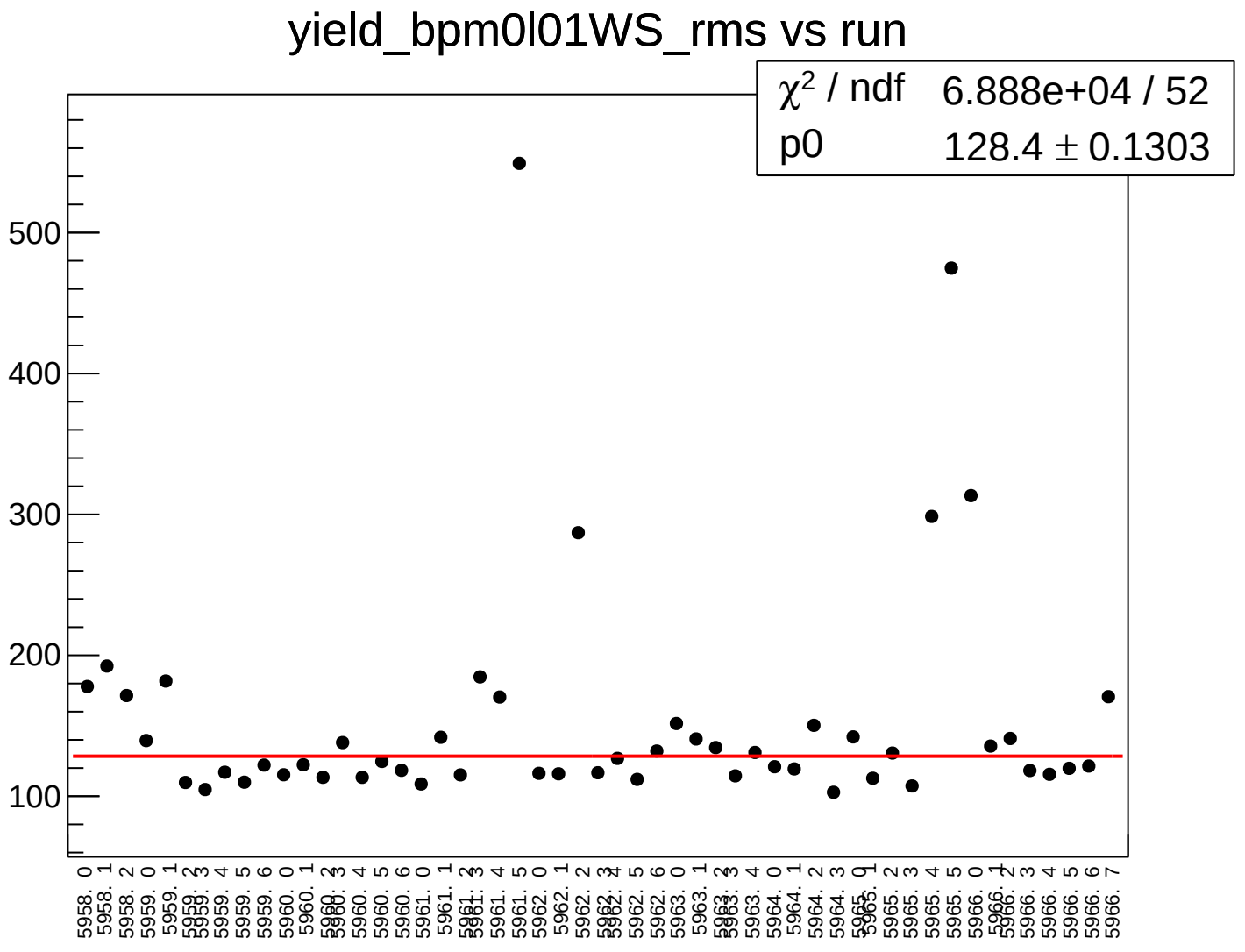

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 8.836e+06 / 52
p0 1.542e+05 ± 0.2588
155
154.5
154
153.5
153
152.5
152
pull
Entries 53
Mean 44.61
Std Dev 26.66
600
400
200
0
−200
−400
−600
−800

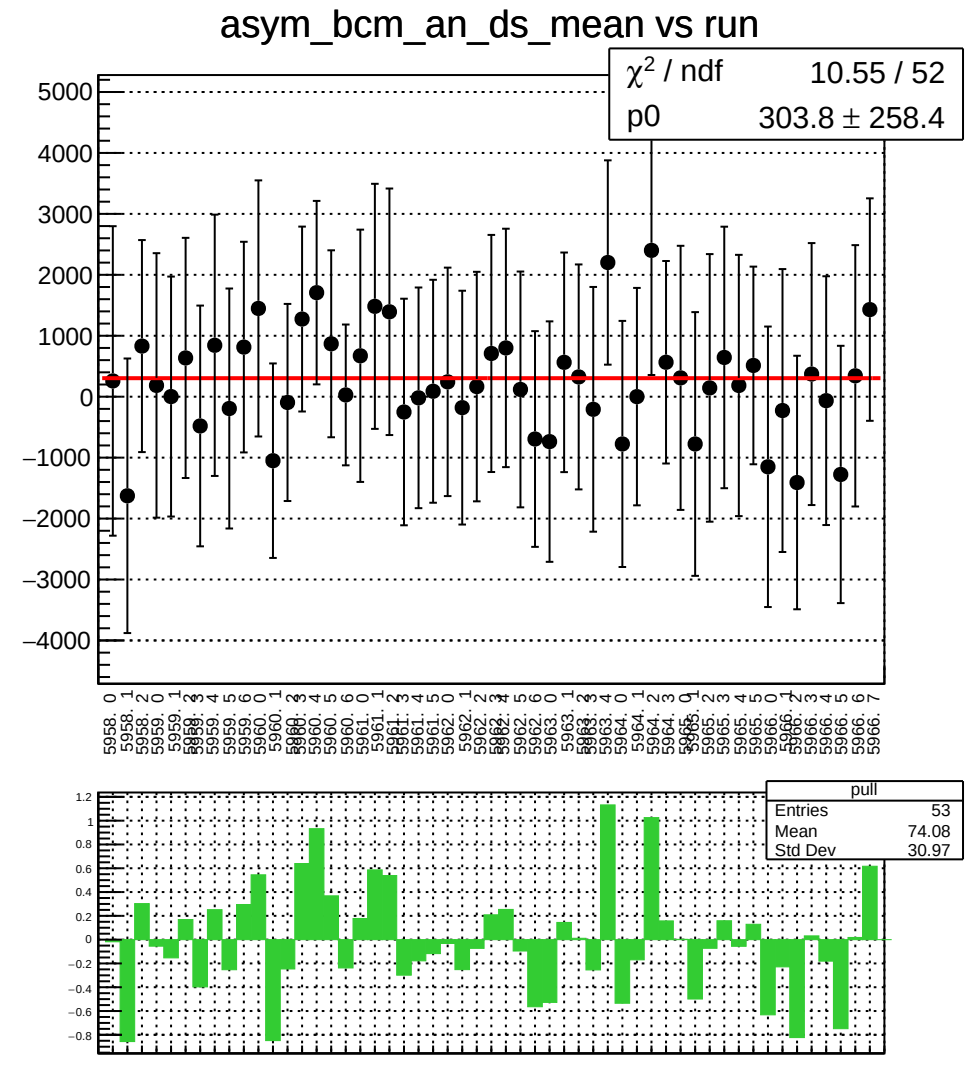

pull1D
Entries 53
Mean 2.257
Std Dev 4.139
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

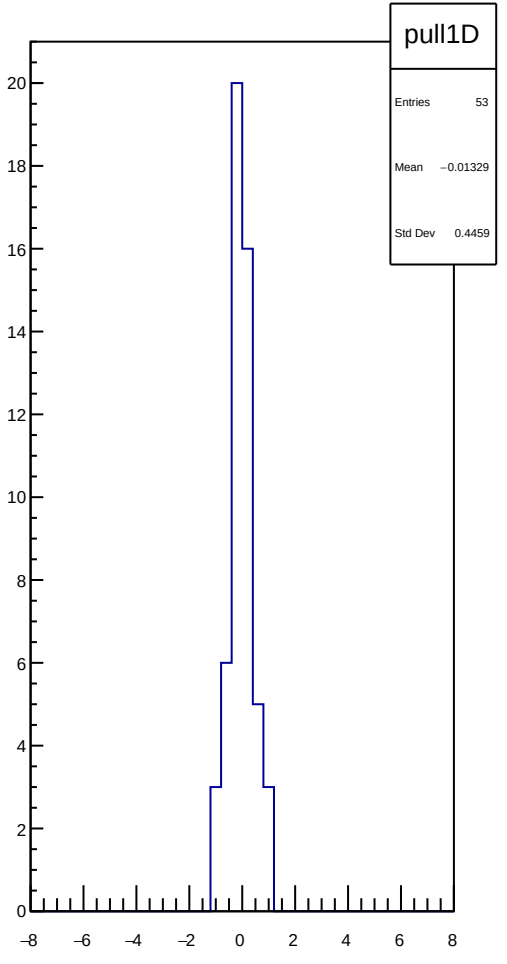

yield_bpm0i07WS_rms vs run
χ² / ndf 1.546e+05 / 52
p0 172.2 ± 0.183
700
600
500
400
300
200
100

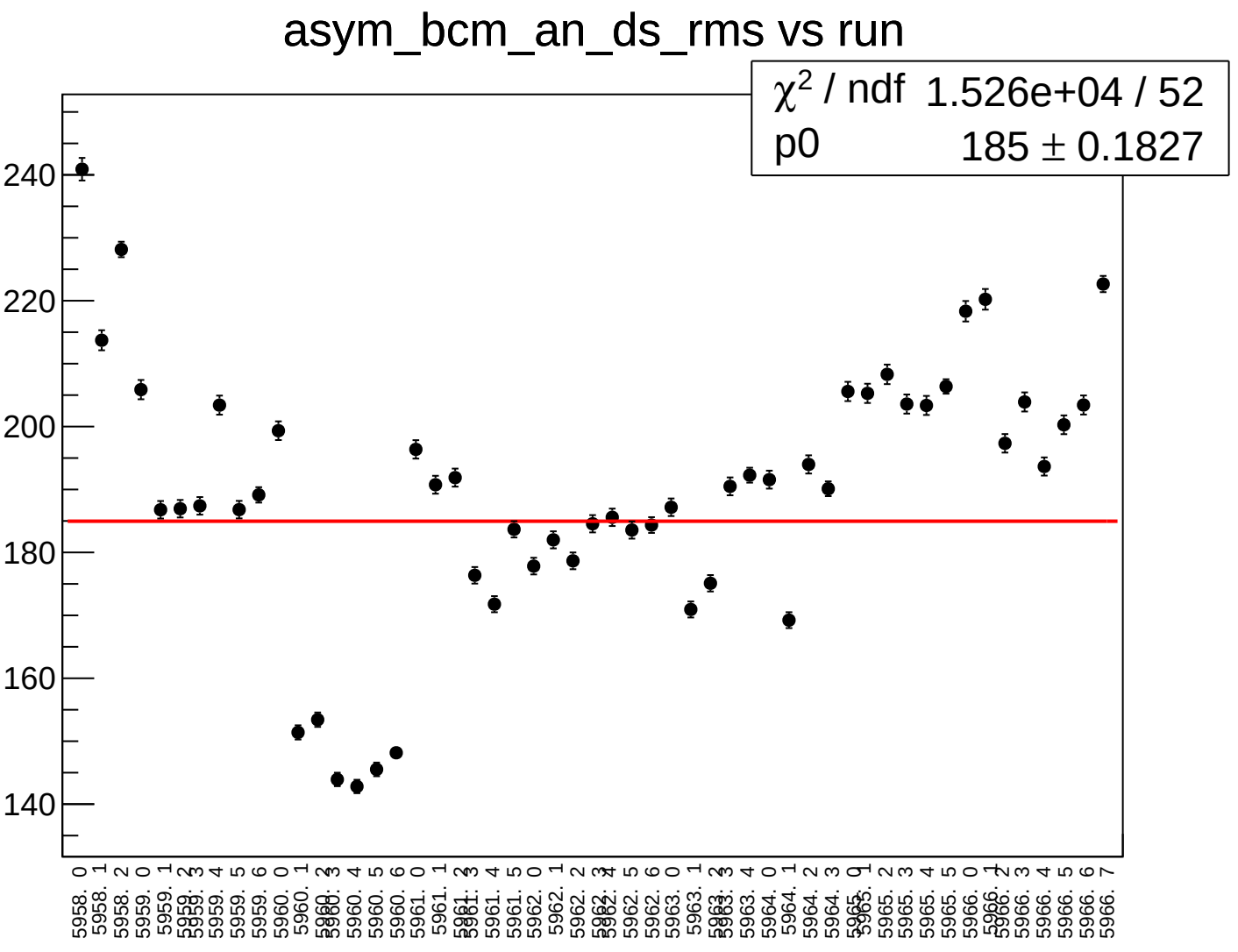

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 8.908e+05 / 52
p0 1.274e+05 ± 0.1843
127.6
127.5
127.4
127.3
127.2
127.1
127
126.9
126.8
pull
Entries 53
Mean −46.66
Std Dev 68.13
200
100
0
−100
−200
−300
−400

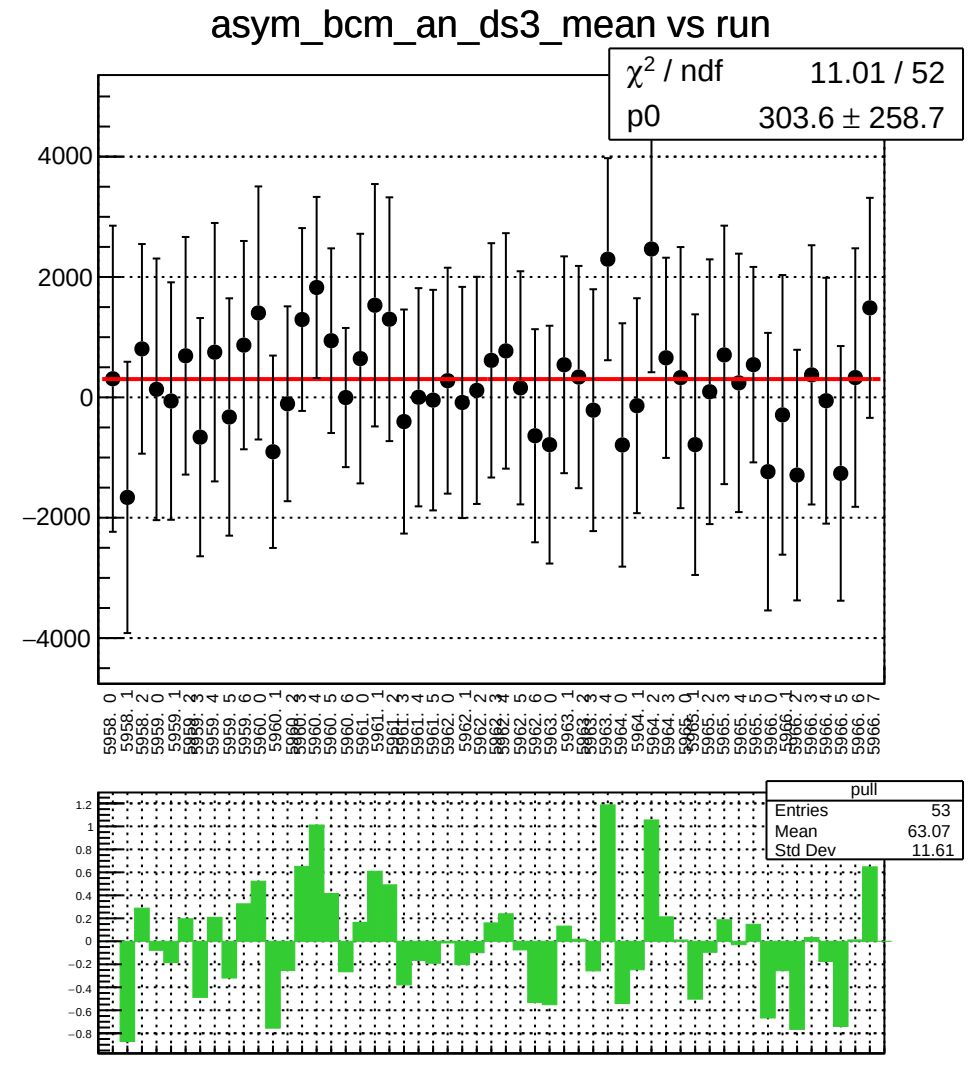

pull1D
Entries 53
Mean 6.592
Std Dev 0.3416
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

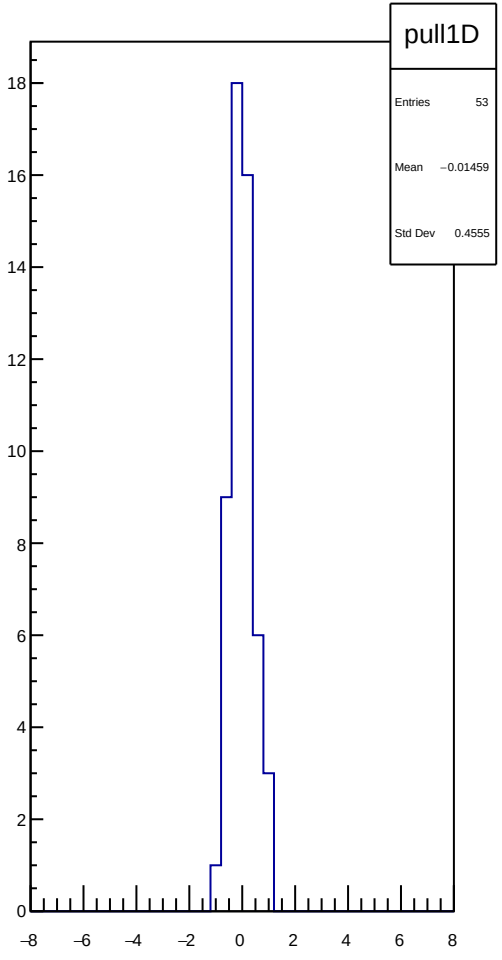

yield_bpm0l01WS_rms vs run
χ² / ndf 6.888e+04 / 52
p0 128.4 ± 0.1303
500
400
300
200
100

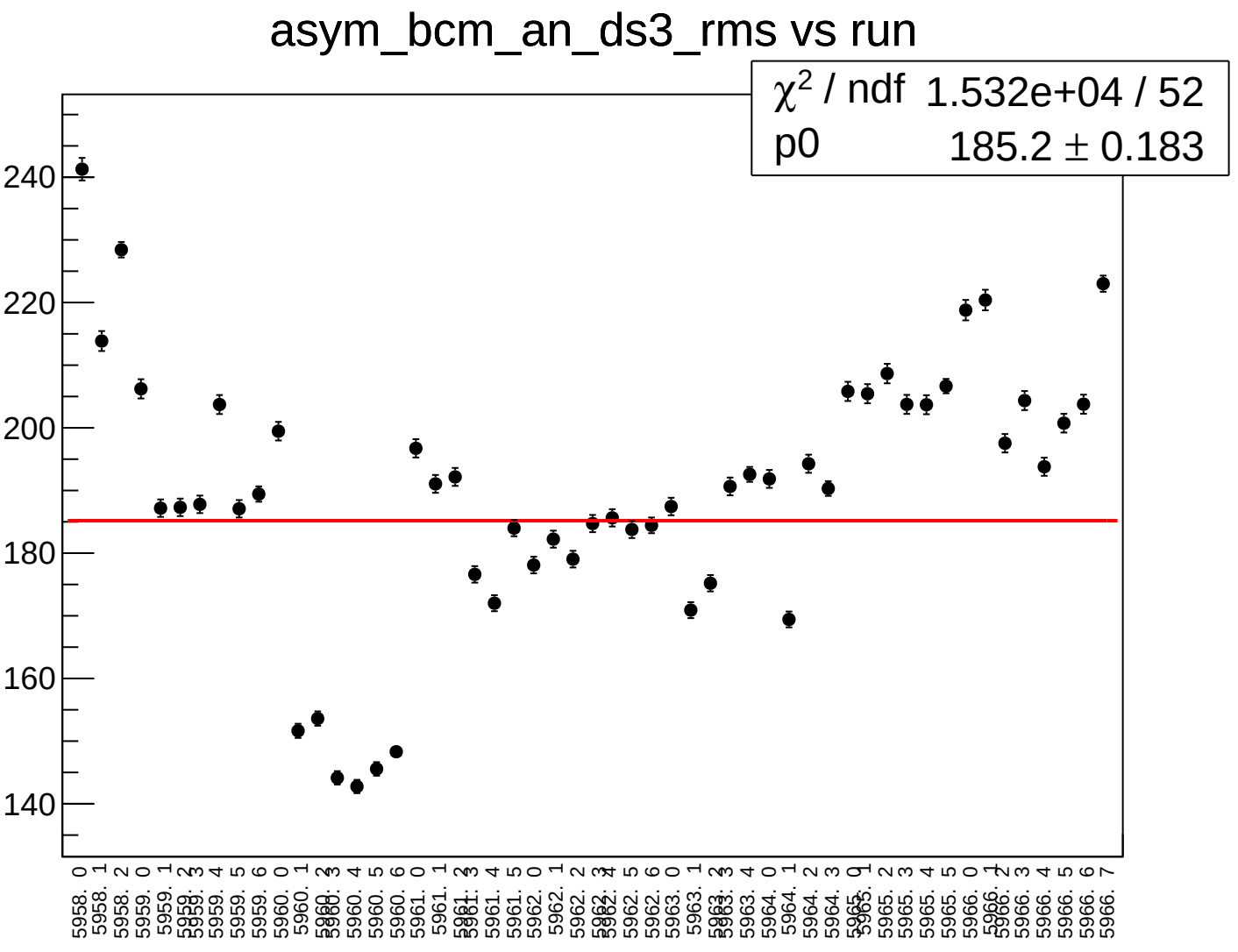

asym_bcm_an_ds_mean vs run
χ² / ndf 10.55 / 52
p0 303.8 ± 258.4
pull
Entries 53
Mean 74.08
Std Dev 30.97

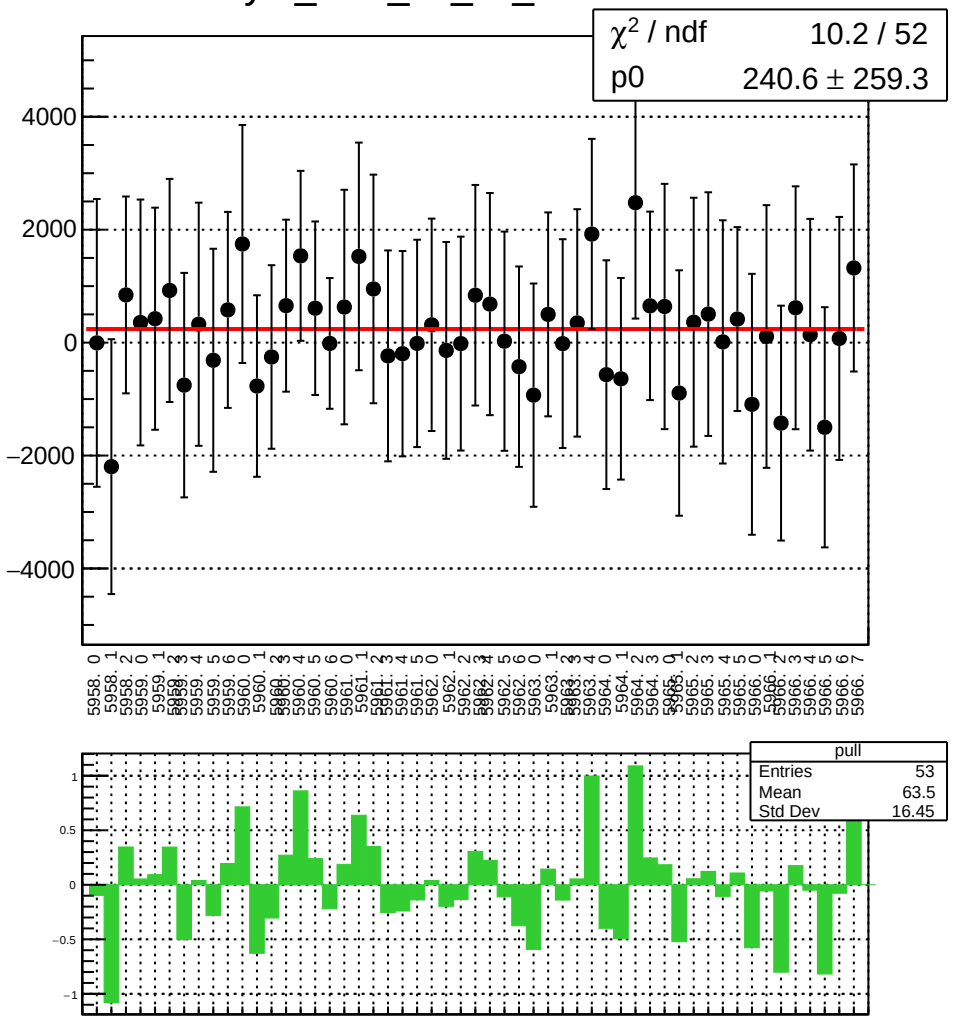

pull1D
Entries 53
Mean −0.01329
Std Dev 0.4459

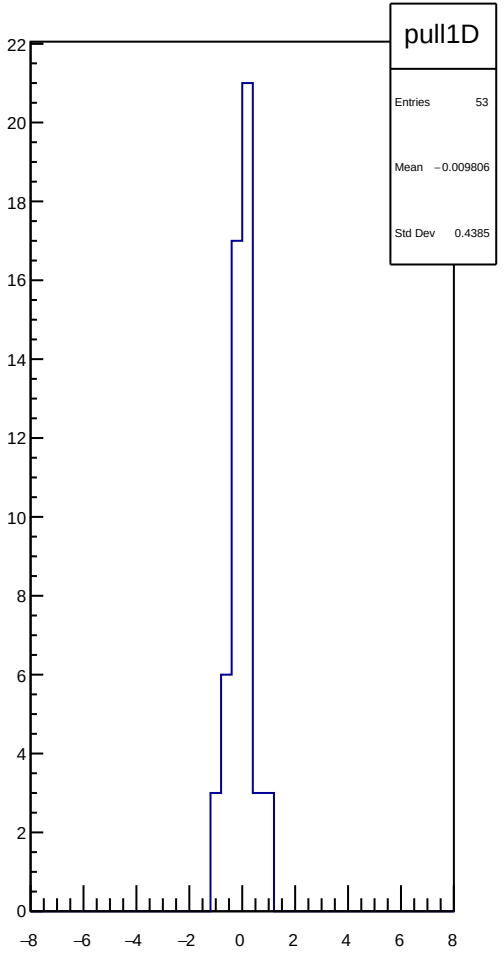

asym_bcm_an_ds_rms vs run
χ² / ndf 1.526e+04 / 52
p0 185 ± 0.1827
240
220
200
180
160
140

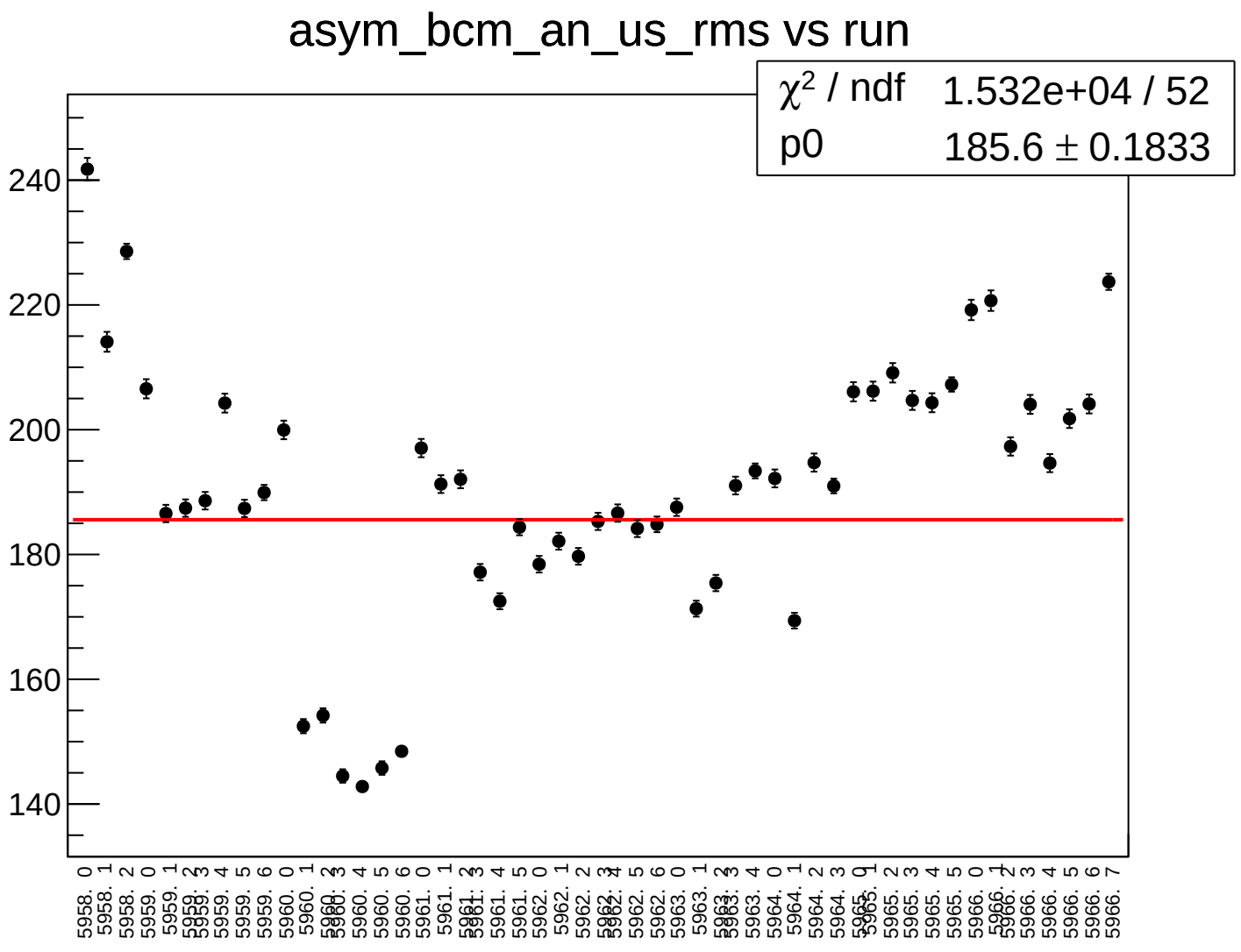

asym_bcm_an_ds3_mean vs run
χ² / ndf 11.01 / 52
p0 303.6 ± 258.7
pull
Entries 53
Mean 63.07
Std Dev 11.61

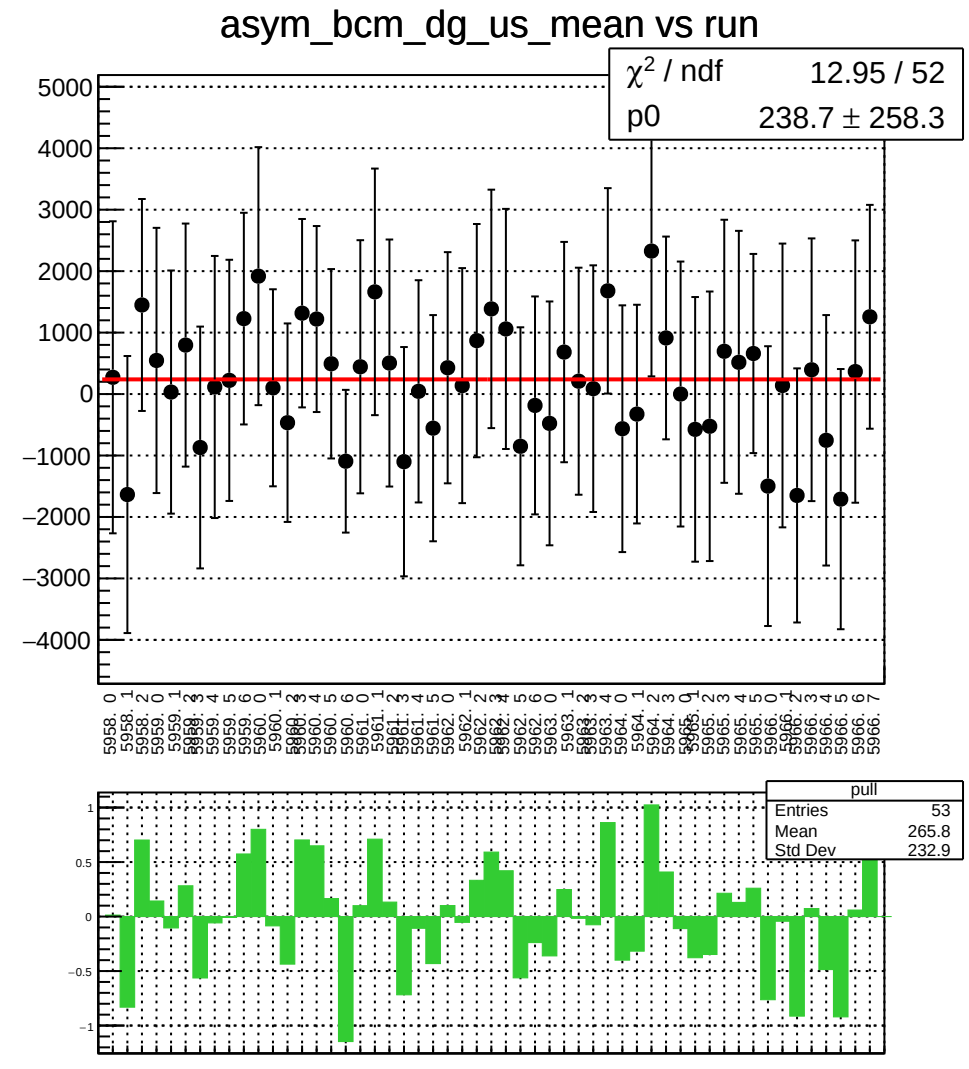

pull1D
Entries 53
Mean −0.01459
Std Dev 0.4555

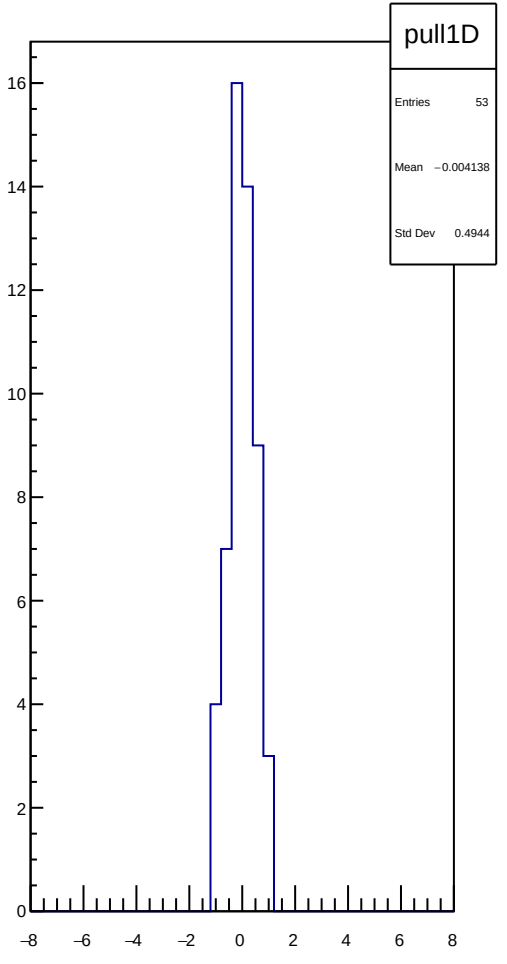

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.532e+04 / 52
p0 185.2 ± 0.183
240
220
200
180
160
140
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

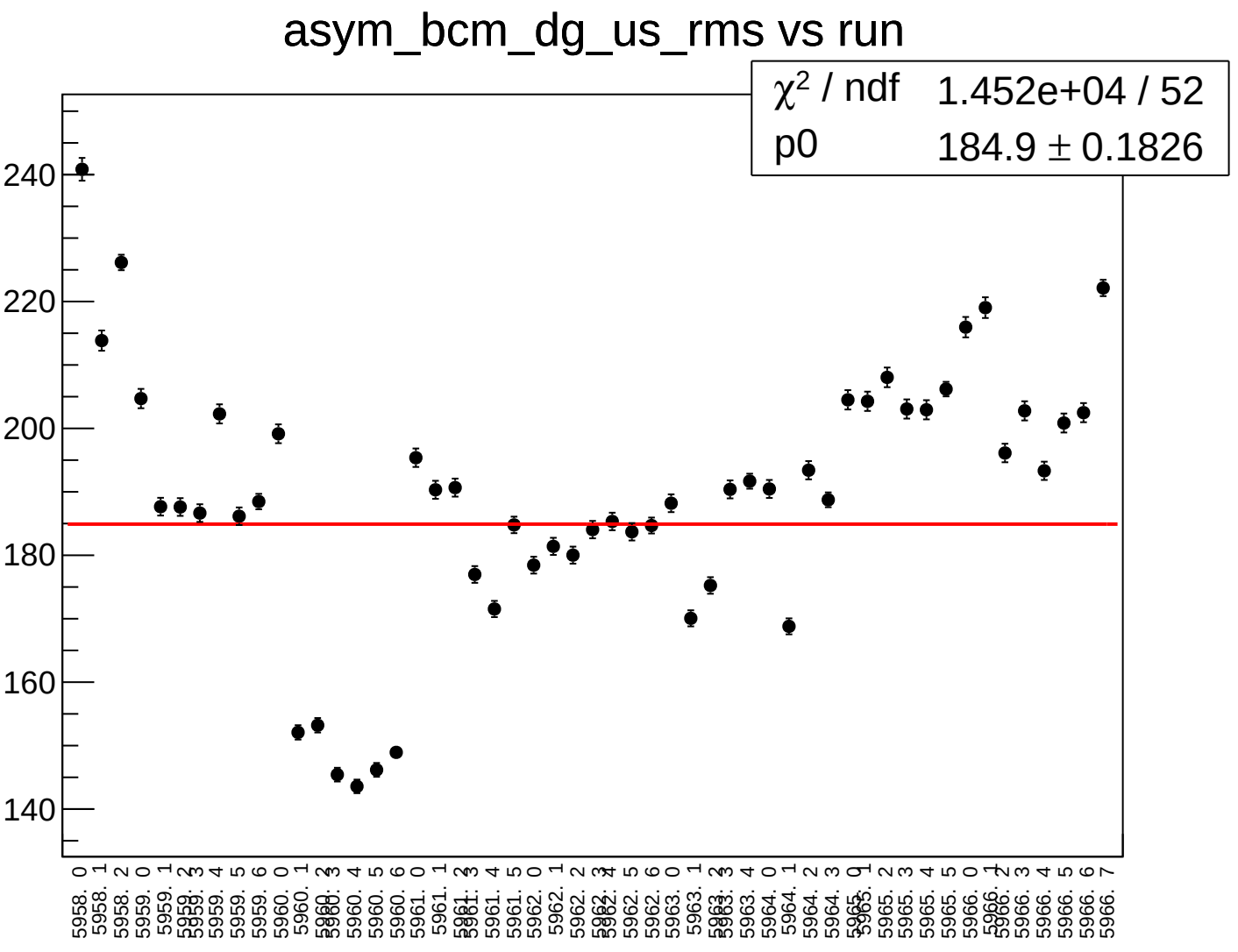

asym_bcm_an_us_mean vs run
χ² / ndf 10.2 / 52
p0 240.6 ± 259.3
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 63.5
Std Dev 16.45
1
0.5
0
−0.5
−1

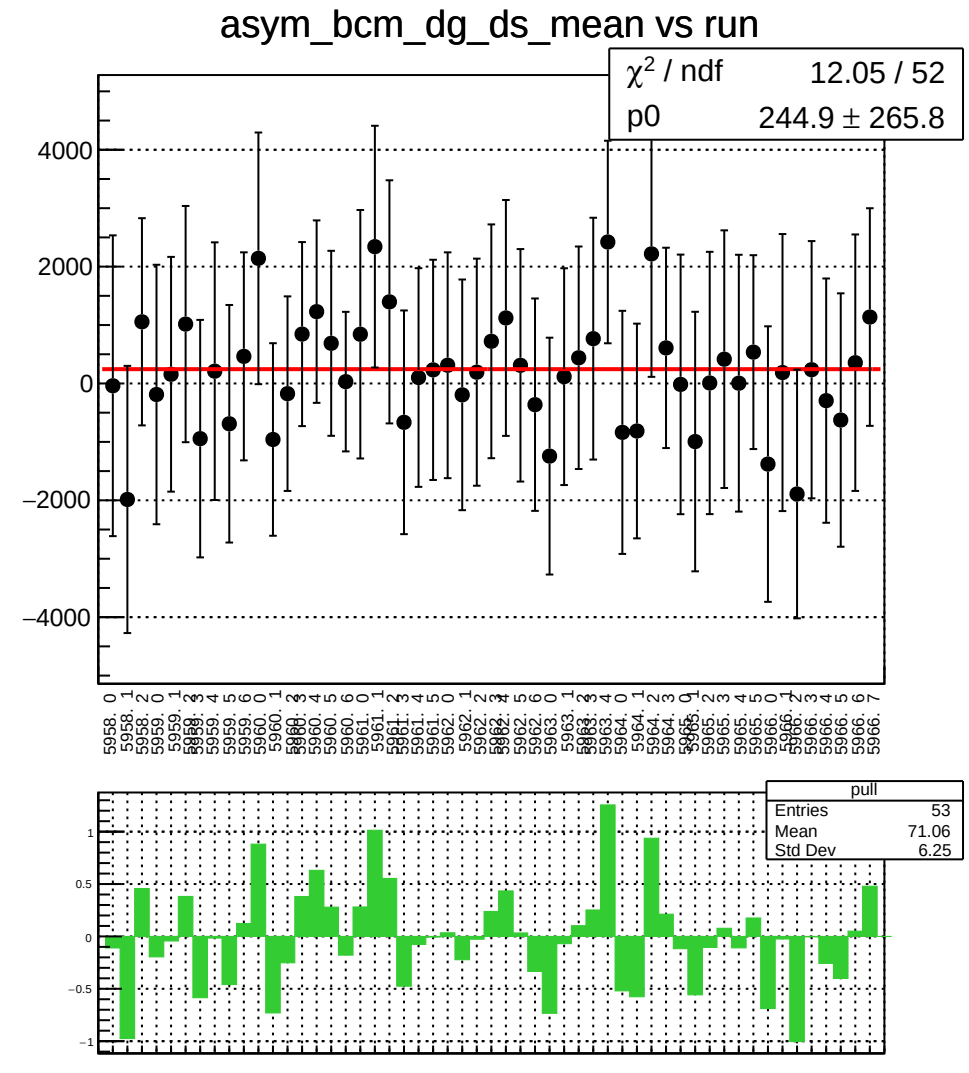

pull1D
Entries 53
Mean −0.009806
Std Dev 0.4385
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

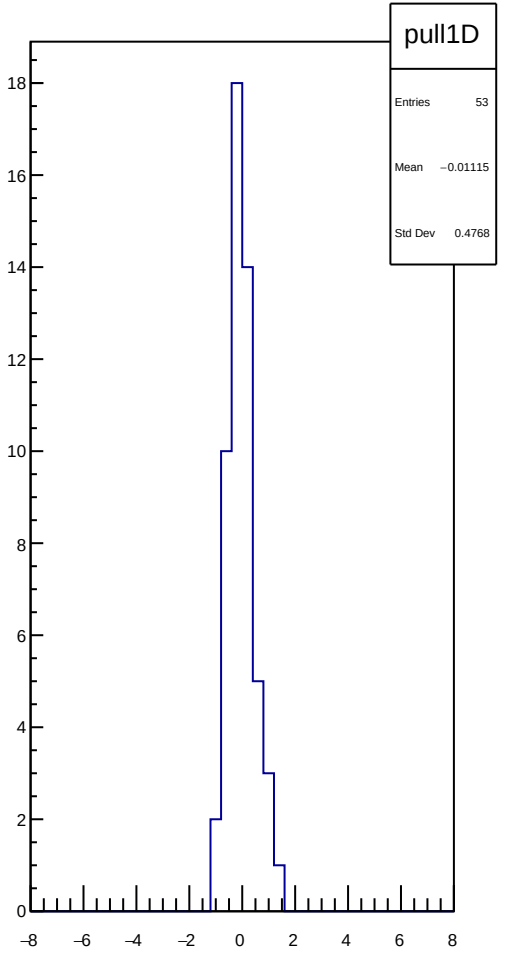

asym_bcm_an_us_rms vs run
χ² / ndf 1.532e+04 / 52
p0 185.6 ± 0.1833
240
220
200
180
160
140

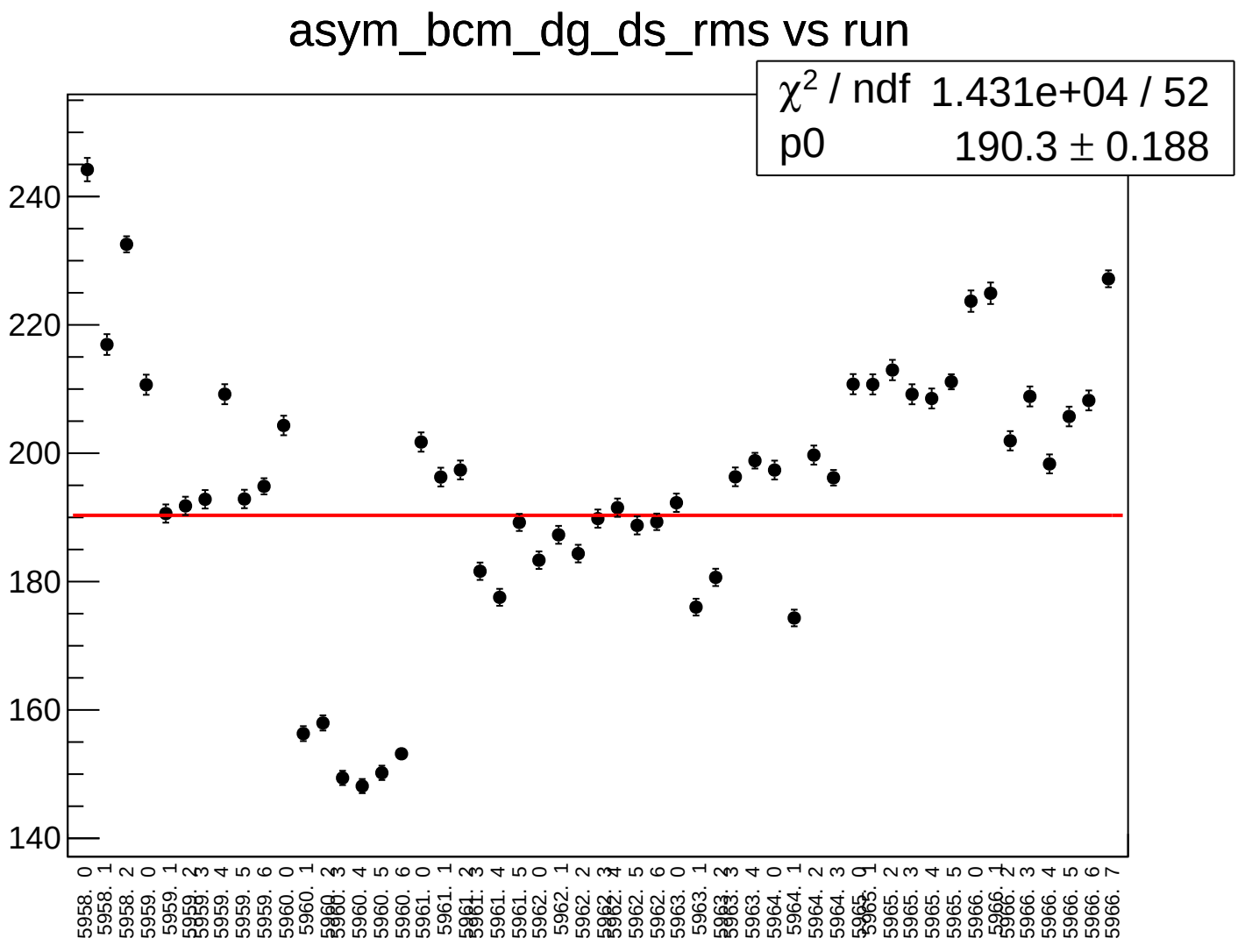

asym_bcm_dg_us_mean vs run
χ² / ndf 12.95 / 52
p0 238.7 ± 258.3
pull
Entries 53
Mean 265.8
Std Dev 232.9

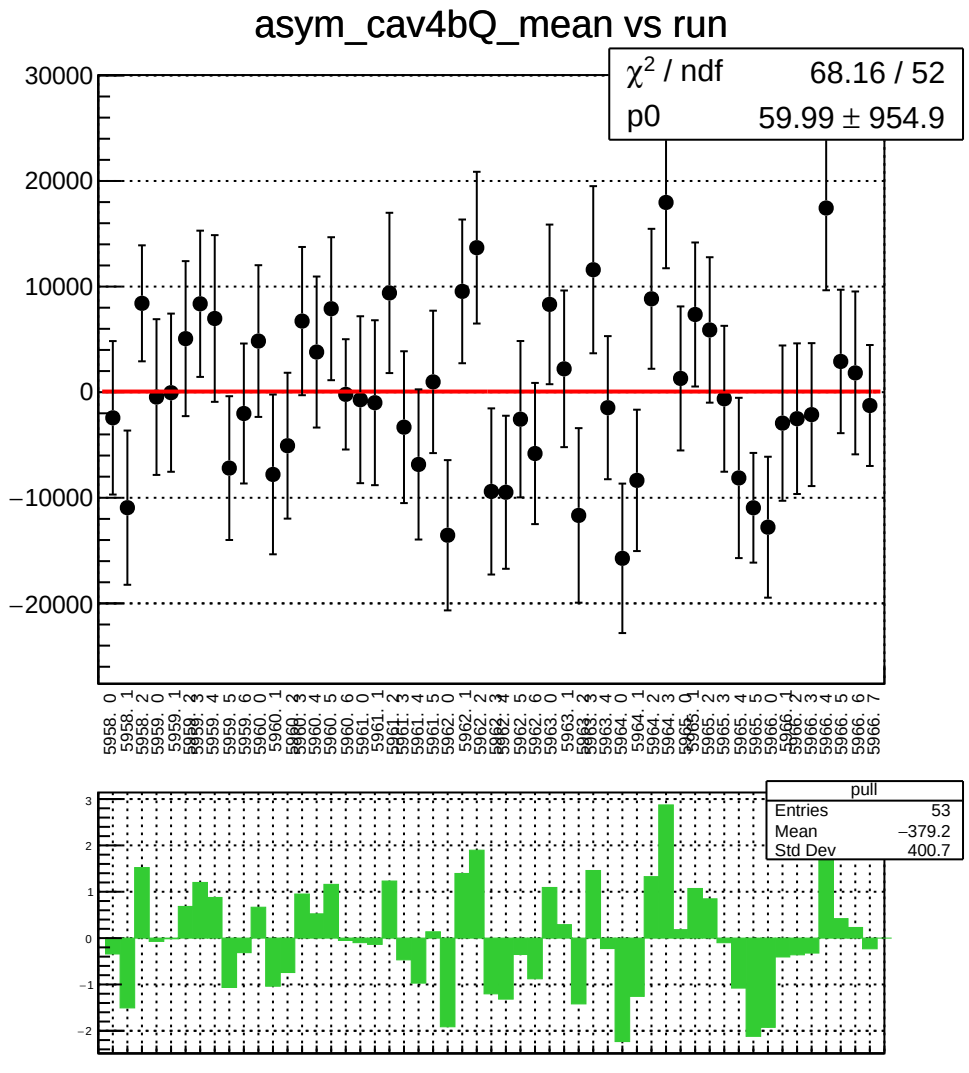

pull1D
Entries 53
Mean −0.004138
Std Dev 0.4944

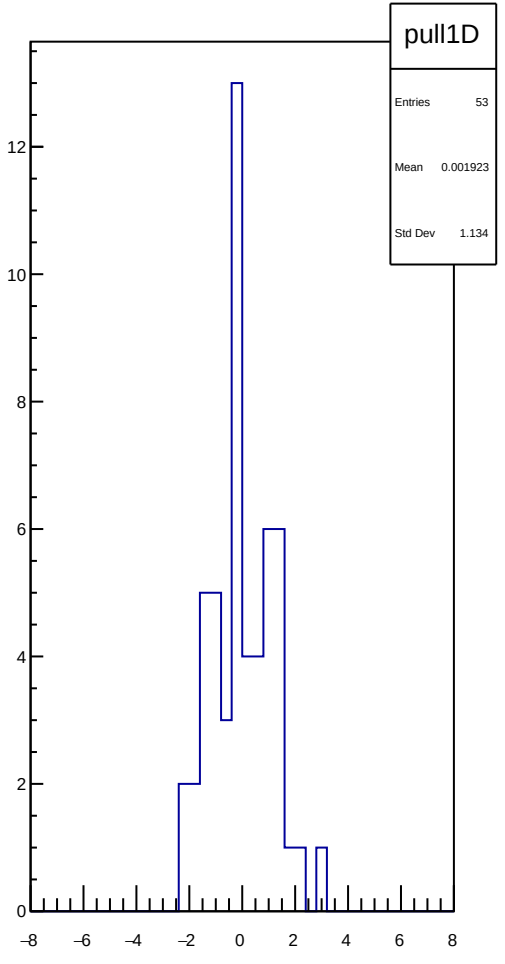

asym_bcm_dg_us_rms vs run
χ² / ndf 1.452e+04 / 52
p0 184.9 ± 0.1826
240
220
200
180
160
140

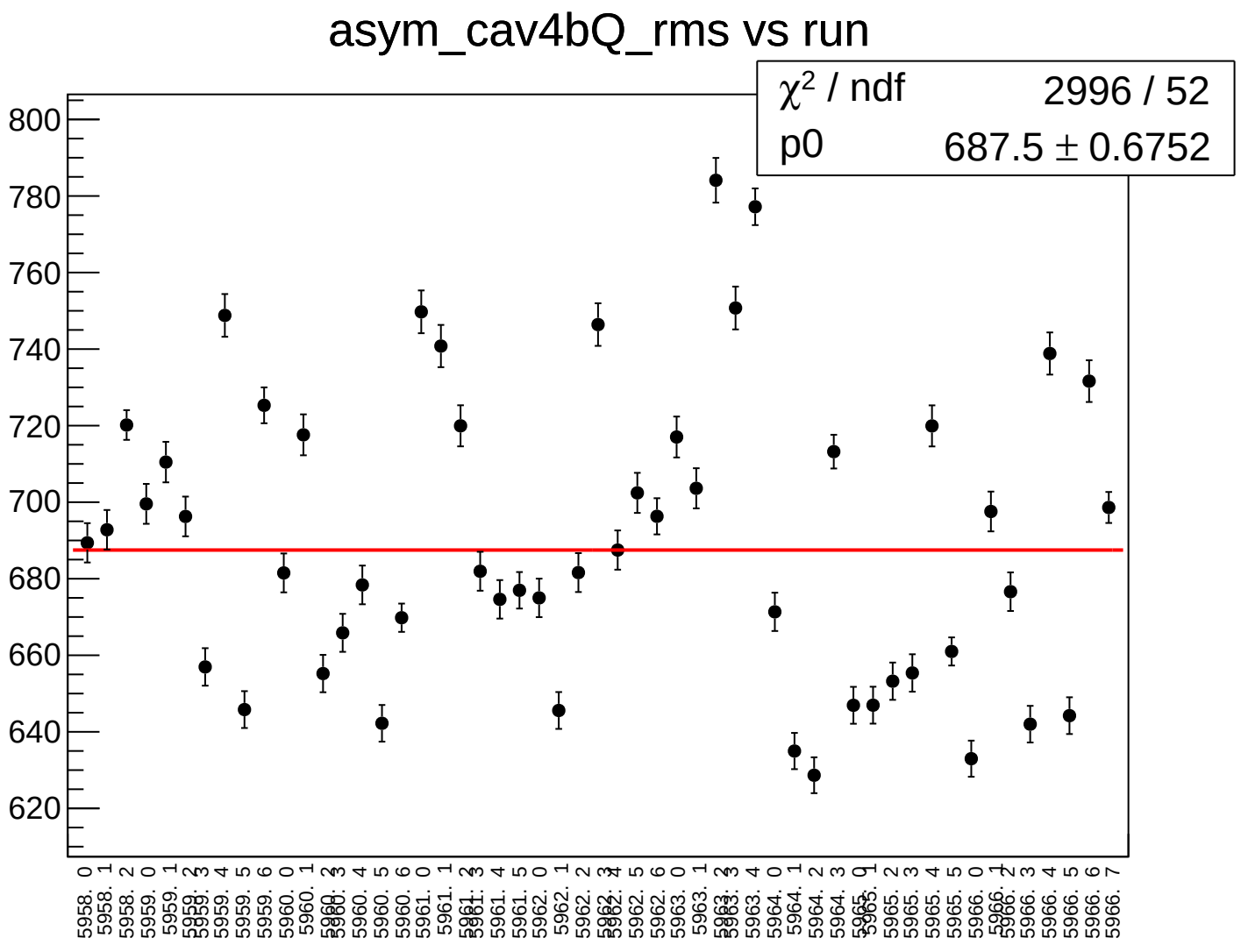

asym_bcm_dg_ds_mean vs run
χ² / ndf 12.05 / 52
p0 244.9 ± 265.8
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 71.06
Std Dev 6.25
1
0.5
0
−0.5
−1

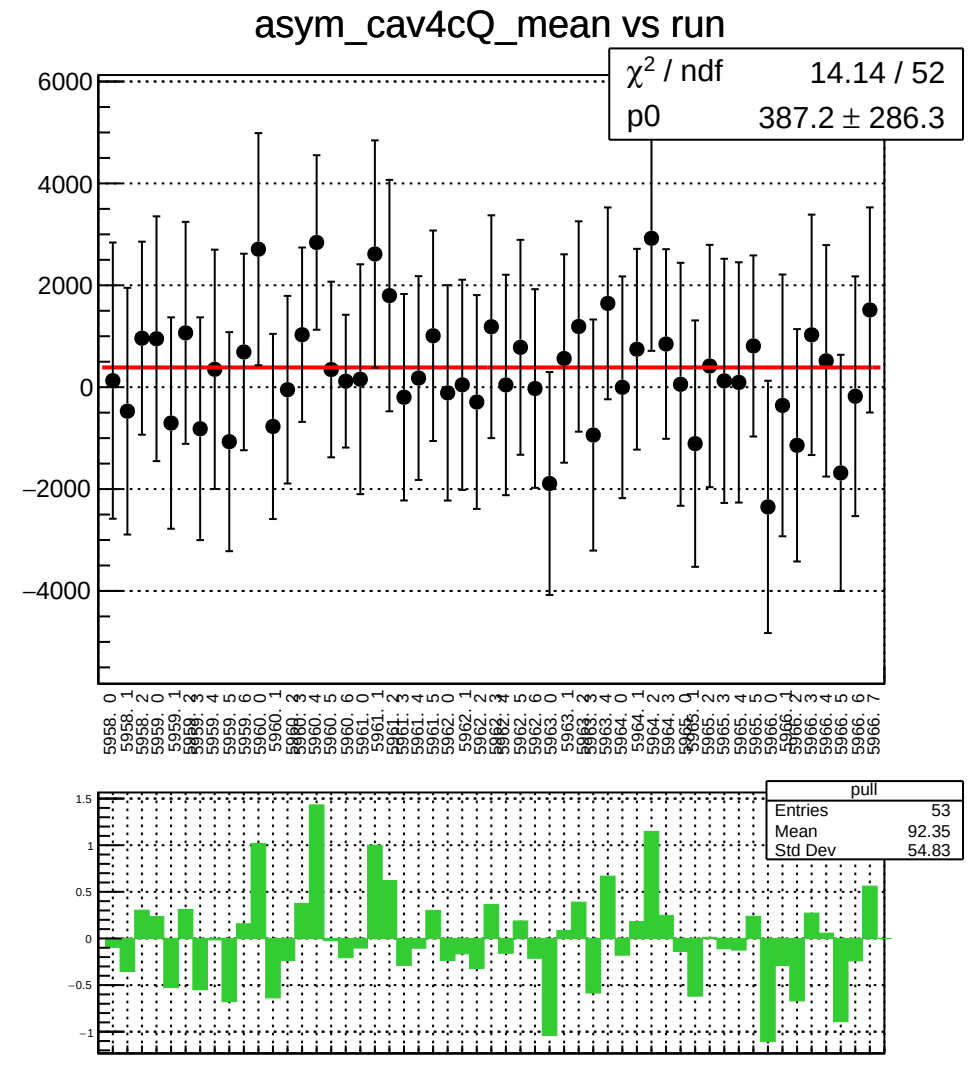

pull1D
Entries 53
Mean −0.01115
Std Dev 0.4768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

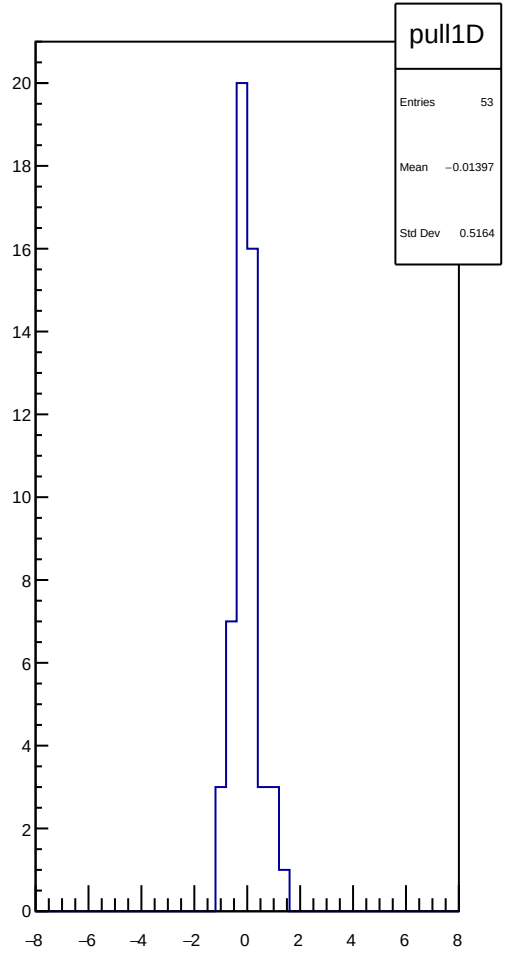

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.431e+04 / 52
p0 190.3 ± 0.188
240
220
200
180
160
140
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

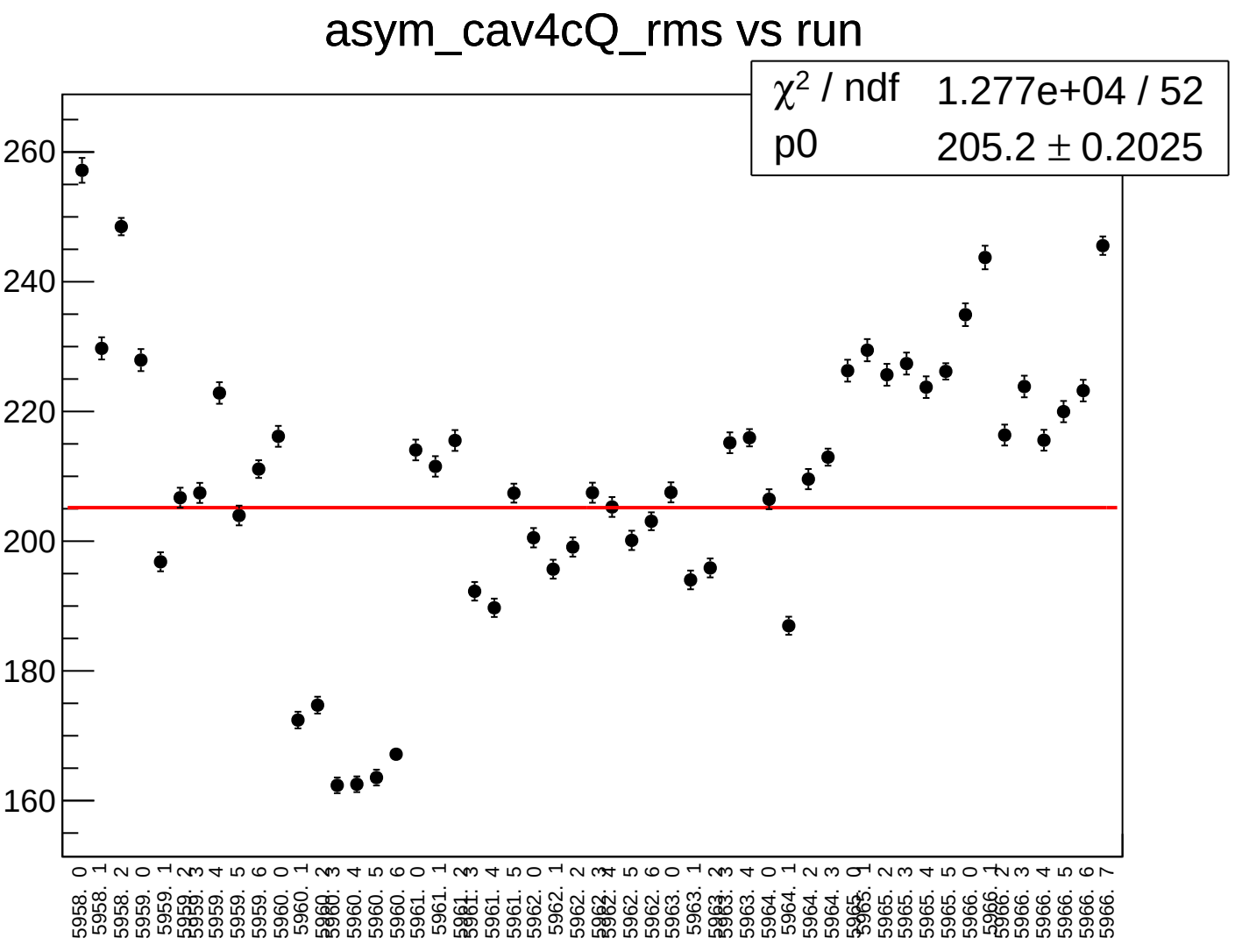

asym_cav4bQ_mean vs run
χ² / ndf 68.16 / 52
p0 59.99 ± 954.9
pull
Entries 53
Mean −379.2
Std Dev 400.7

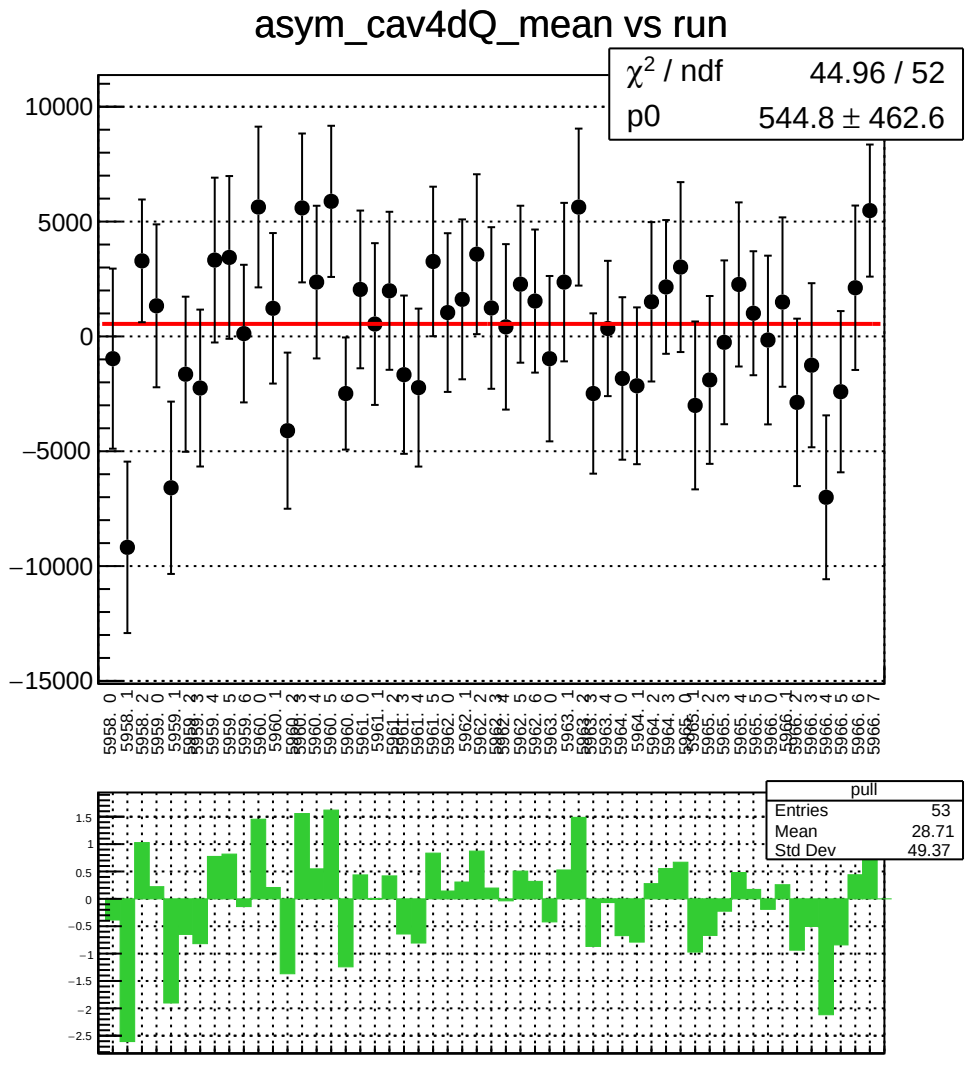

pull1D
Entries 53
Mean 0.001923
Std Dev 1.134

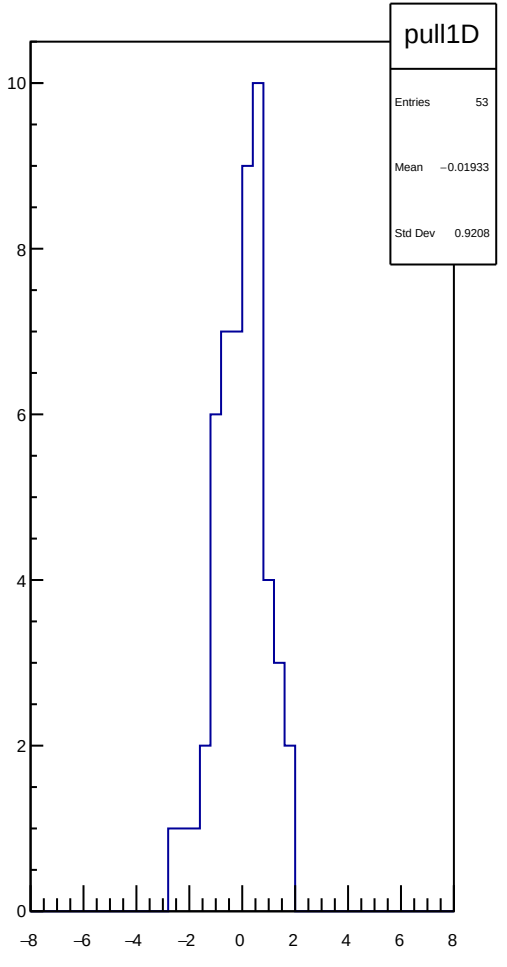

asym_cav4bQ_rms vs run
χ² / ndf 2996 / 52
p0 687.5 ± 0.6752
800
780
760
740
720
700
680
660
640
620
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

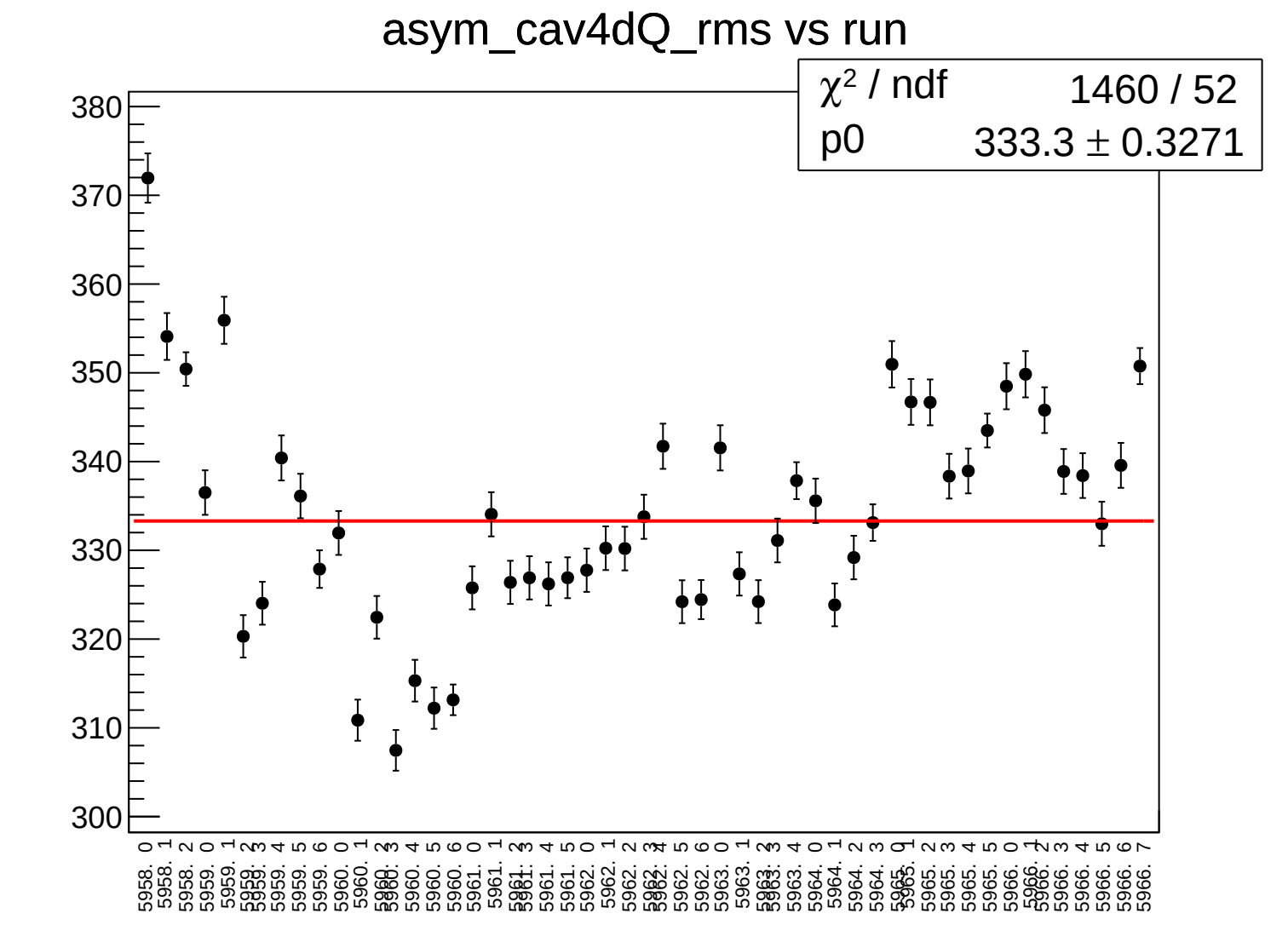

asym_cav4cQ_mean vs run
χ² / ndf 14.14 / 52
p0 387.2 ± 286.3
6000
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 92.35
Std Dev 54.83
1.5
1
0.5
0
−0.5
−1

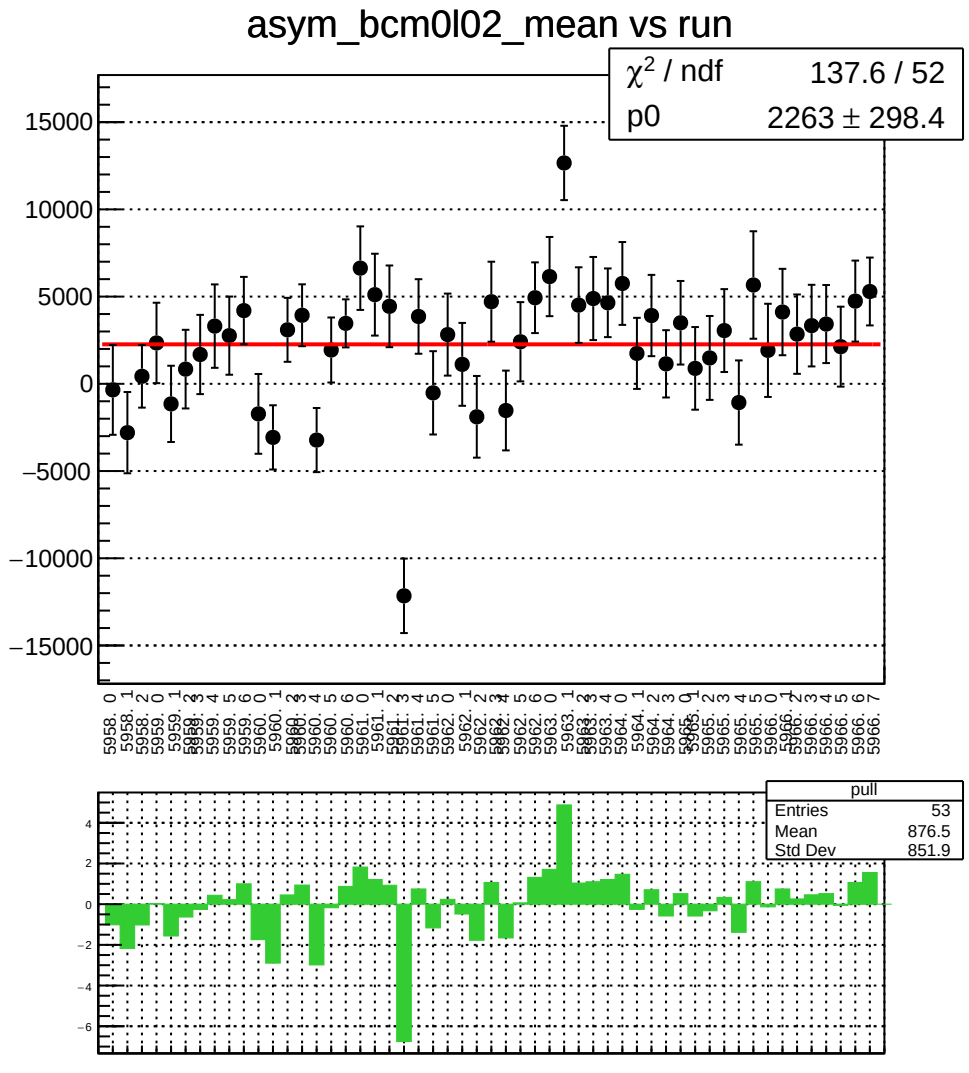

pull1D
Entries 53
Mean −0.01397
Std Dev 0.5164
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

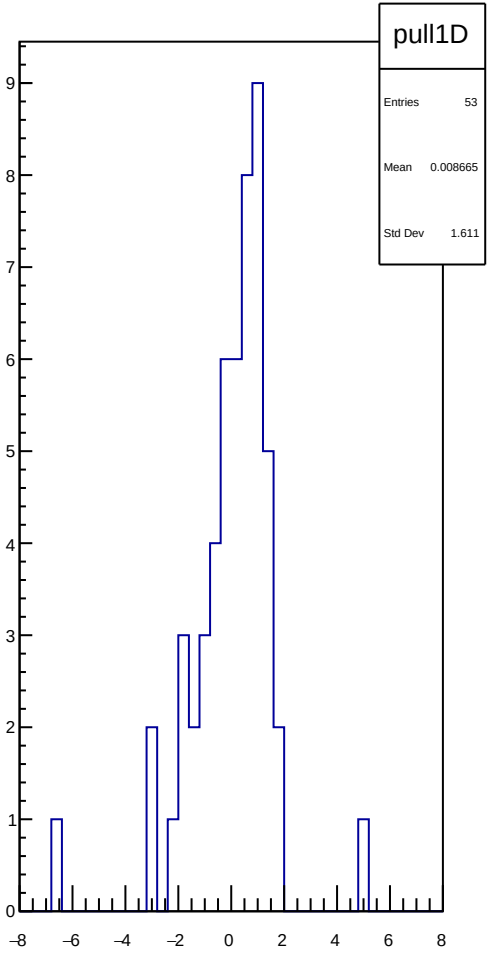

asym_cav4cQ_rms vs run
χ² / ndf 1.277e+04 / 52
p0 205.2 ± 0.2025
260
240
220
200
180
160

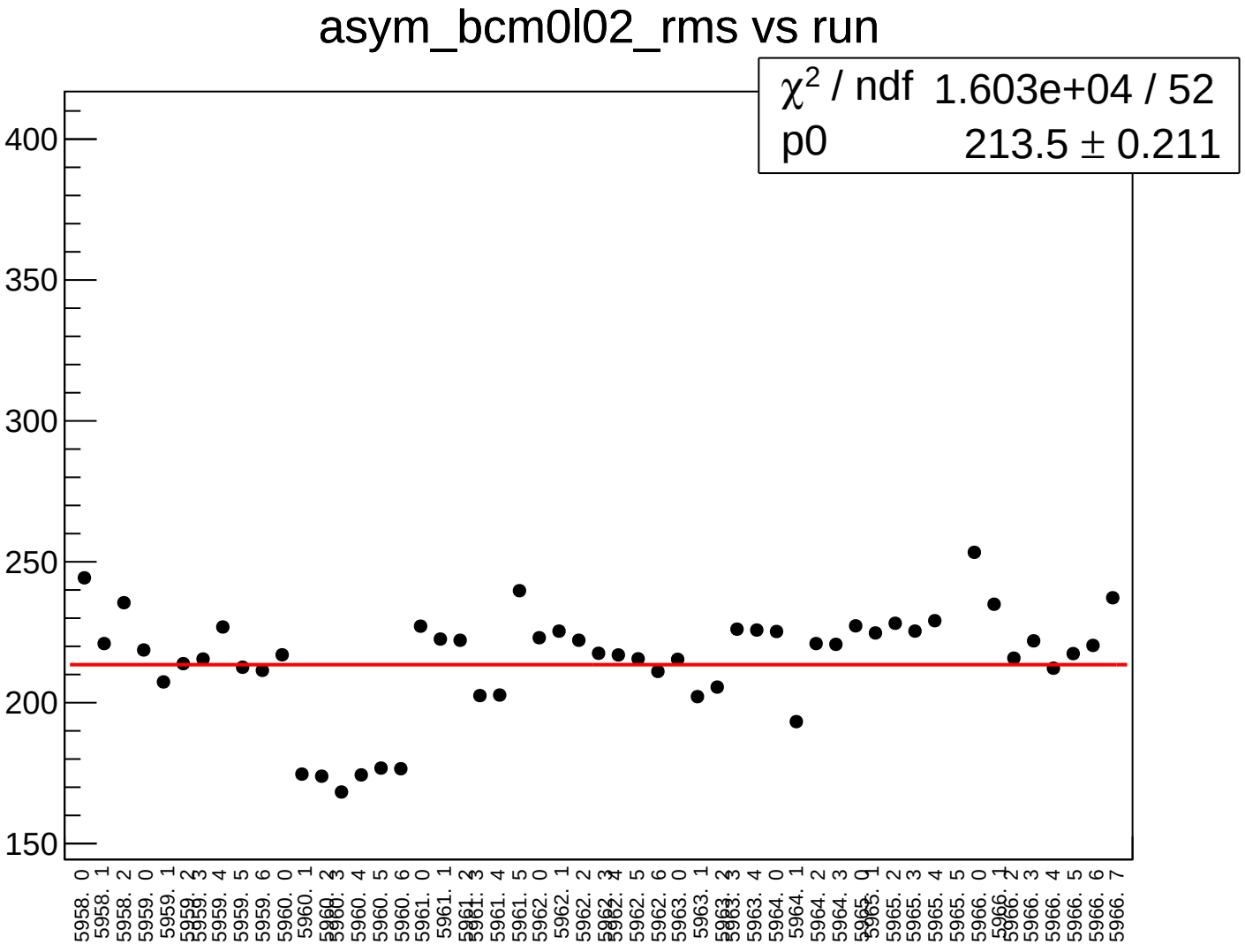

asym_cav4dQ_mean vs run
χ² / ndf 44.96 / 52
p0 544.8 ± 462.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 53
Mean 28.71
Std Dev 49.37
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

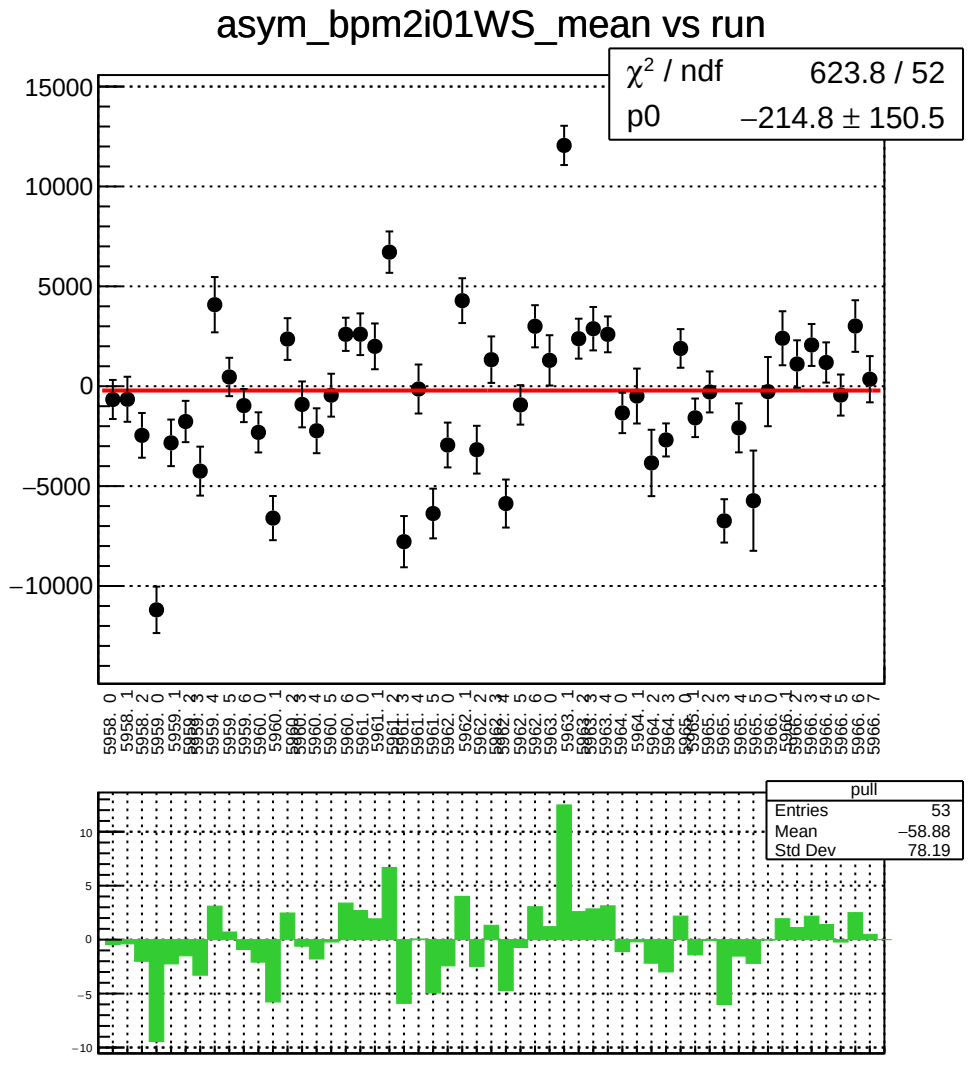

pull1D
Entries 53
Mean −0.01933
Std Dev 0.9208
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

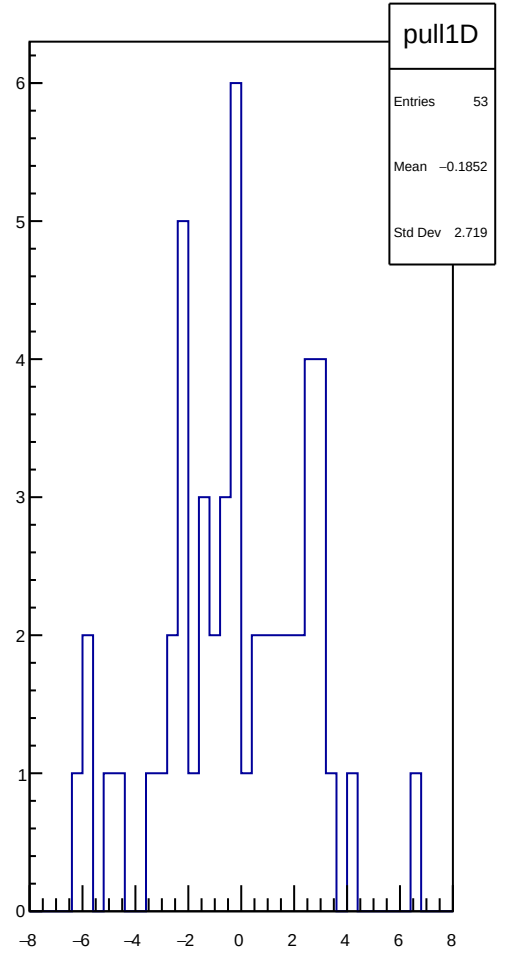

asym_cav4dQ_rms vs run
χ² / ndf 1460 / 52
p0 333.3 ± 0.3271
380
370
360
350
340
330
320
310
300
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

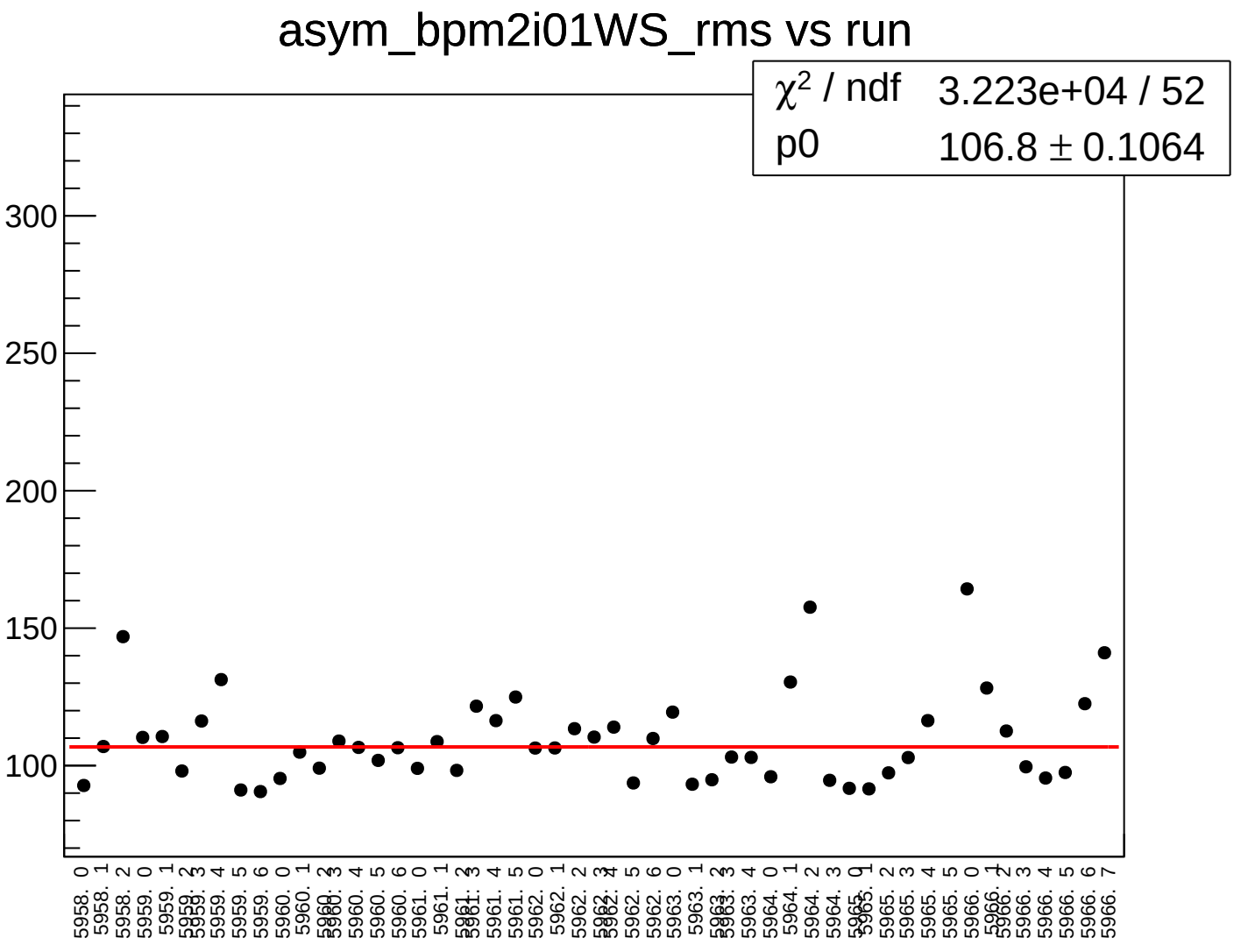

asym_bcm0l02_mean vs run
χ² / ndf 137.6 / 52
p0 2263 ± 298.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 53
Mean 876.5
Std Dev 851.9
4
2
0
−2
−4
−6

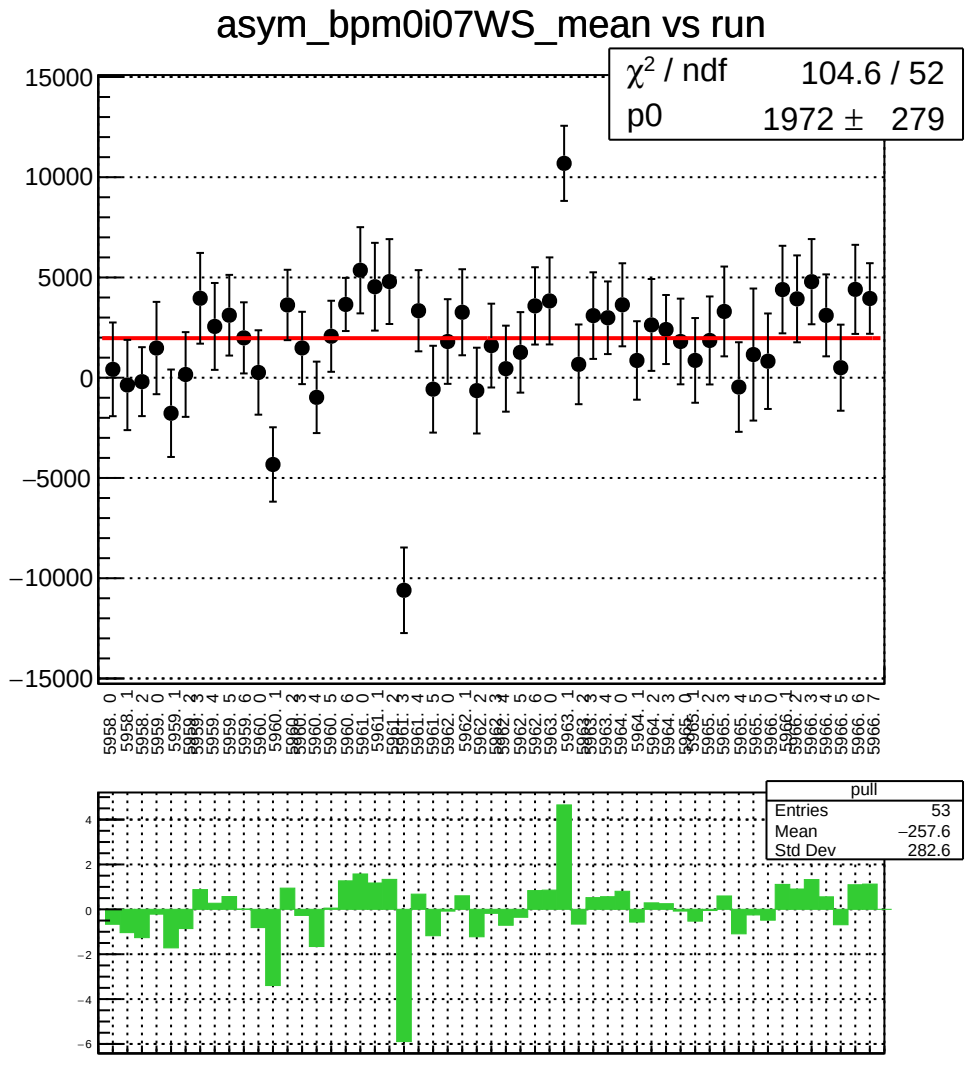

pull1D
Entries 53
Mean 0.008665
Std Dev 1.611
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

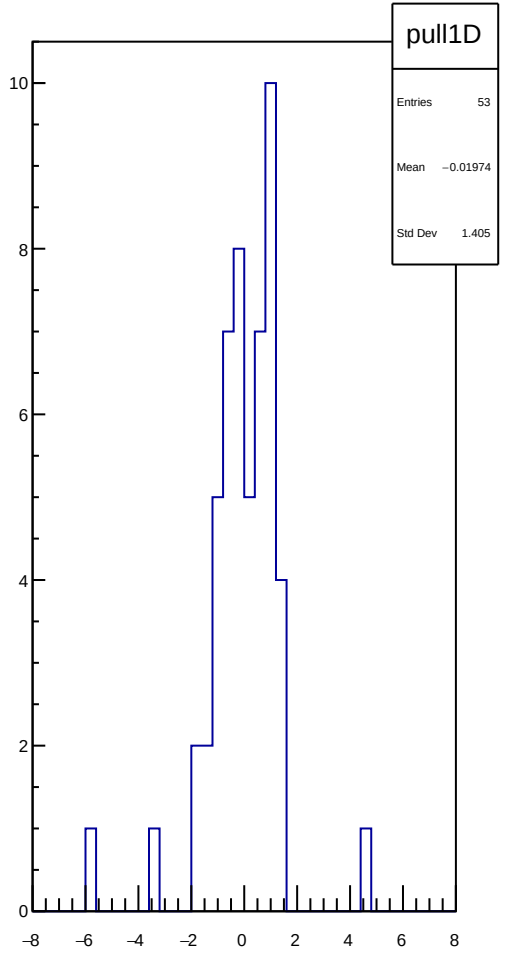

asym_bcm0l02_rms vs run
χ² / ndf 1.603e+04 / 52
p0 213.5 ± 0.211
400
350
300
250
200
150
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

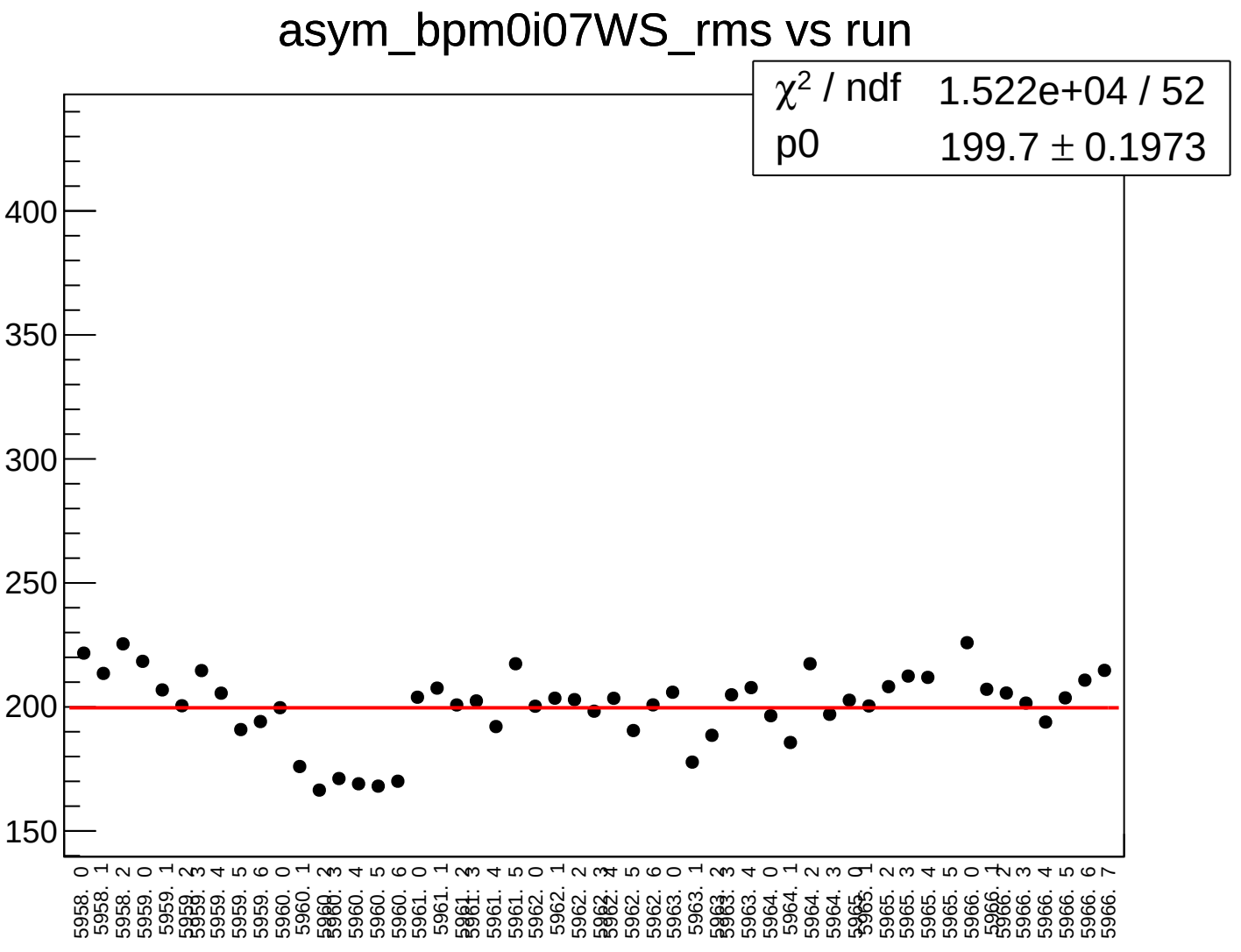

asym_bpm2i01WS_mean vs run
χ² / ndf 623.8 / 52
p0 −214.8 ± 150.5
15000
10000
5000
0
−5000
−10000
pull
Entries 53
Mean −58.88
Std Dev 78.19
10
5
0
−5
−10

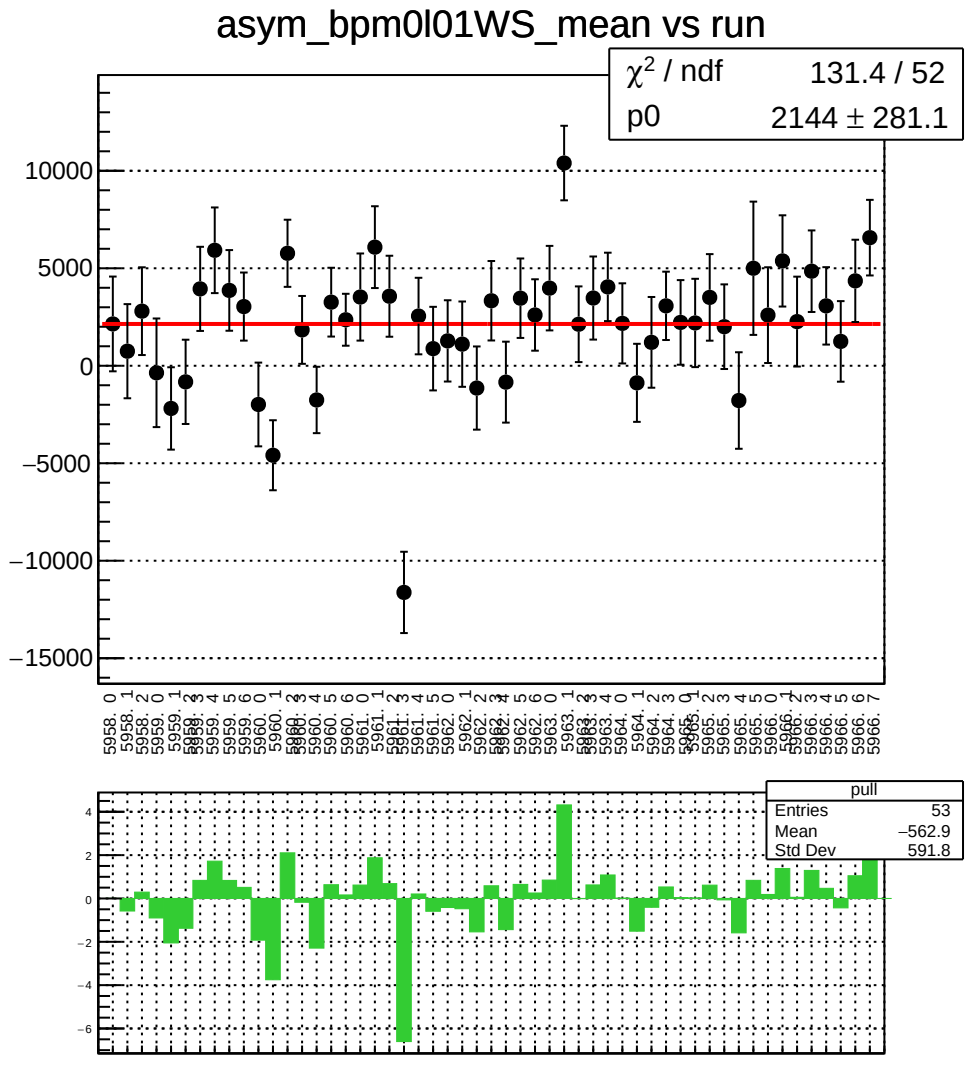

pull1D
Entries 53
Mean −0.1852
Std Dev 2.719
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

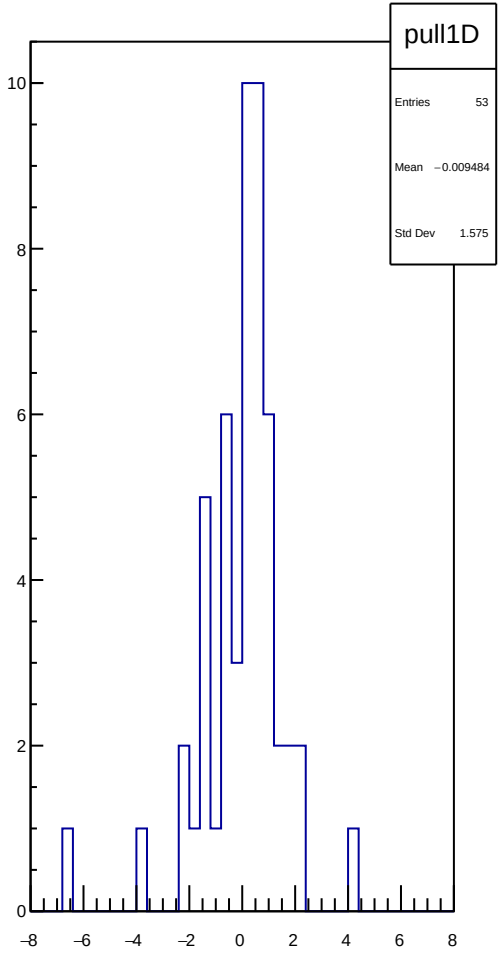

asym_bpm2i01WS_rms vs run
χ² / ndf 3.223e+04 / 52
p0 106.8 ± 0.1064
300
250
200
150
100

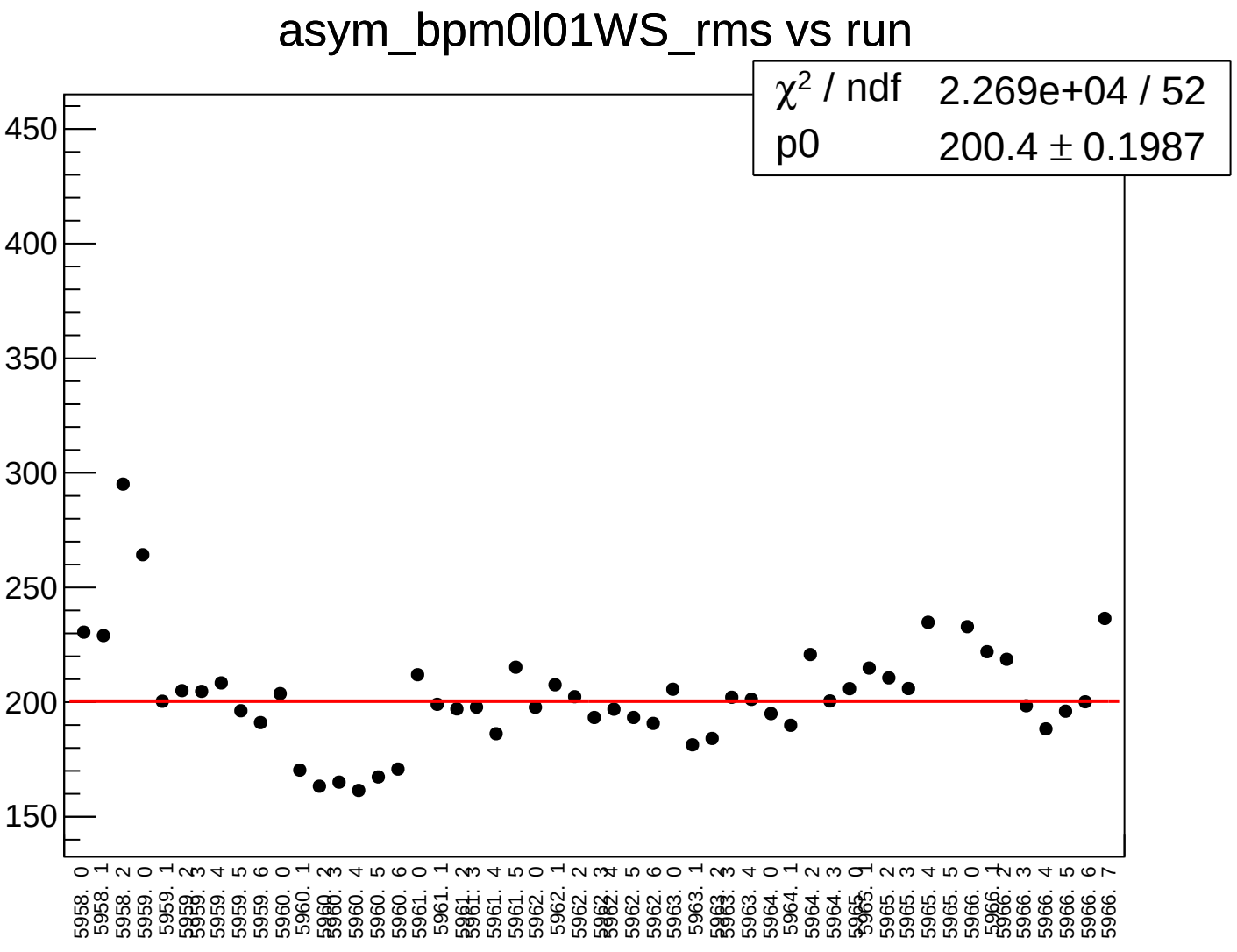

asym_bpm0i07WS_mean vs run
χ² / ndf 104.6 / 52
p0 1972 ± 279
pull
Entries 53
Mean −257.6
Std Dev 282.6

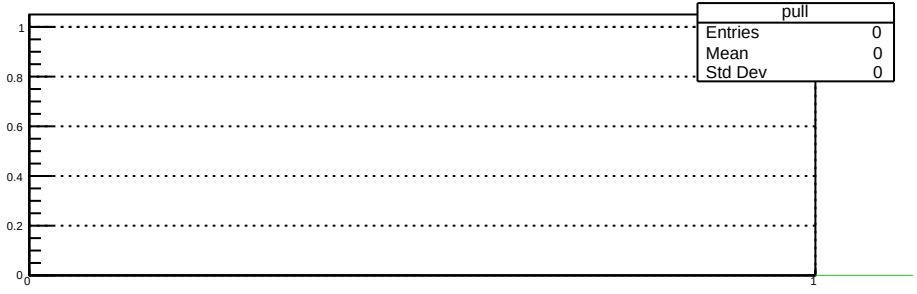

pull1D
Entries 53
Mean −0.01974
Std Dev 1.405

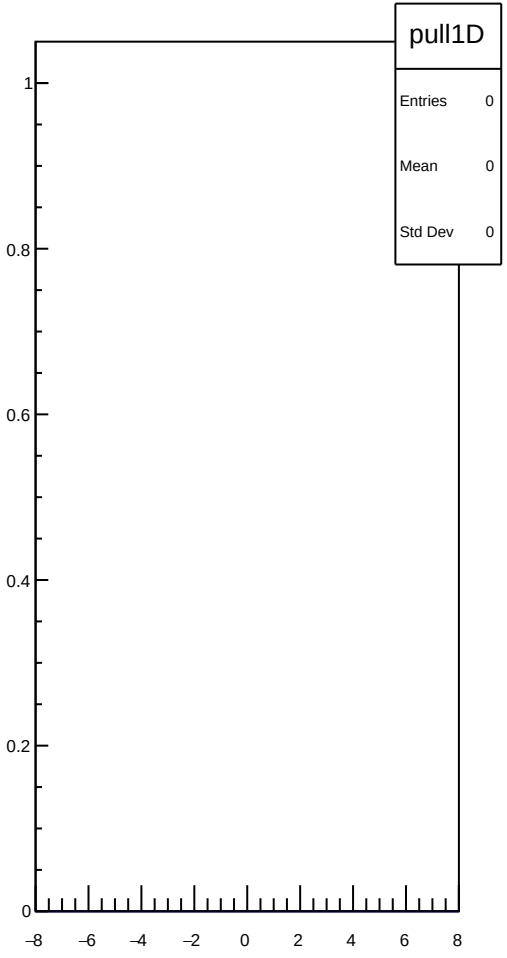

asym_bpm0i07WS_rms vs run
χ² / ndf 1.522e+04 / 52
p0 199.7 ± 0.1973
400
350
300
250
200
150

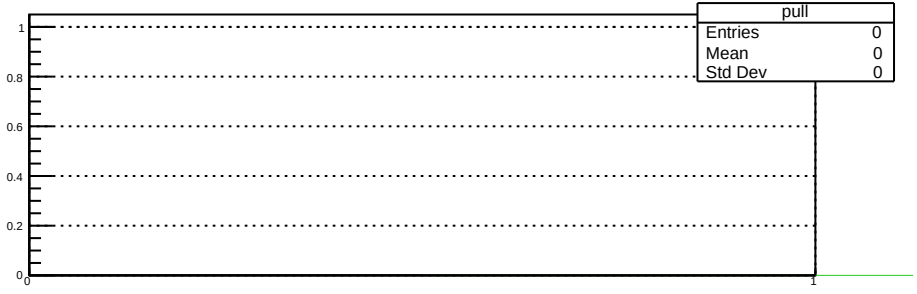

asym_bpm0l01WS_mean vs run
χ^2 / ndf 131.4 / 52
p0 2144 ± 281.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 53
Mean −562.9
Std Dev 591.8
4
2
0
−2
−4
−6

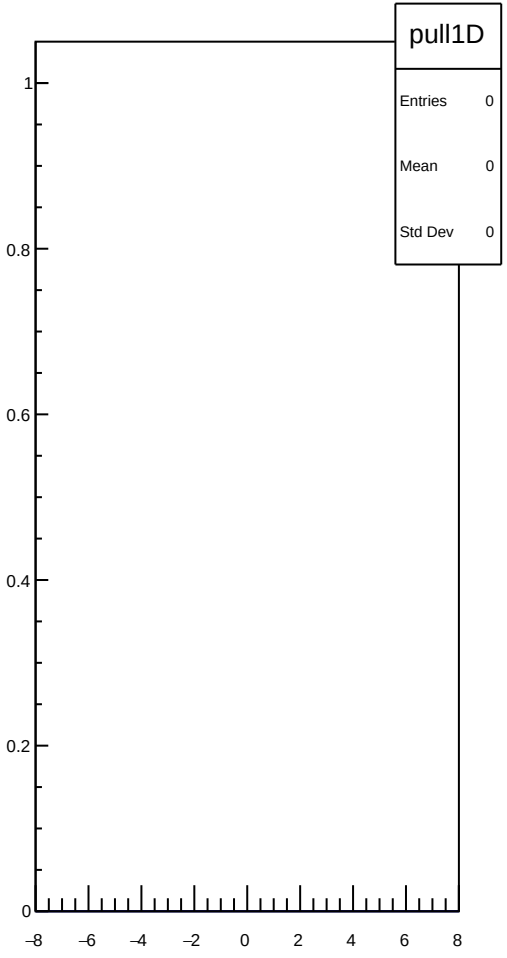

pull1D
Entries 53
Mean −0.009484
Std Dev 1.575
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

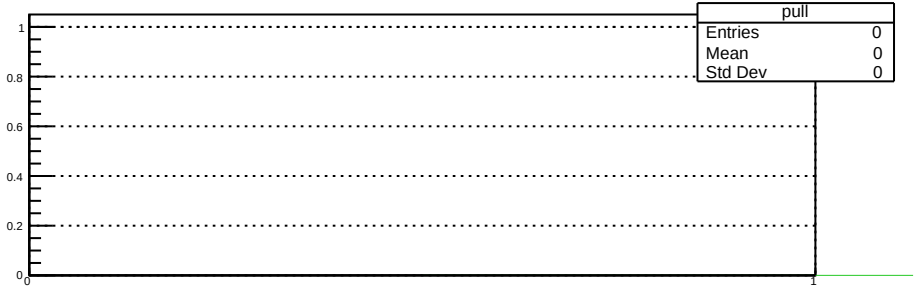

asym_bpm0l01WS_rms vs run
χ² / ndf 2.269e+04 / 52
p0 200.4 ± 0.1987
450
400
350
300
250
200
150

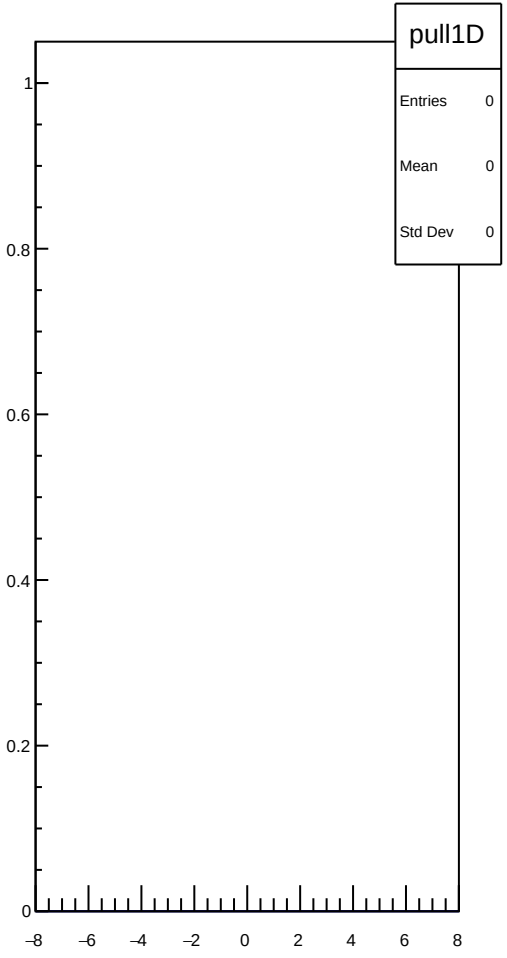

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

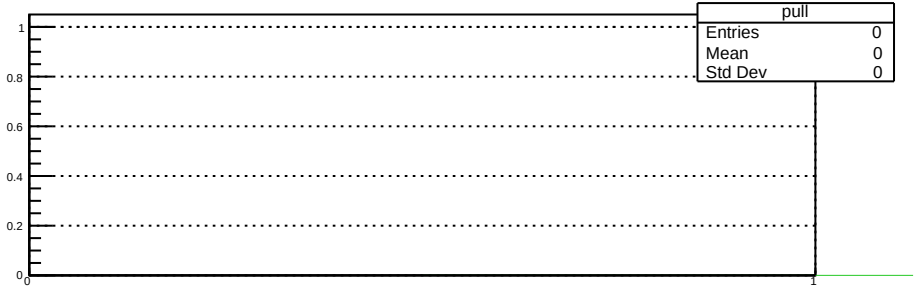

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

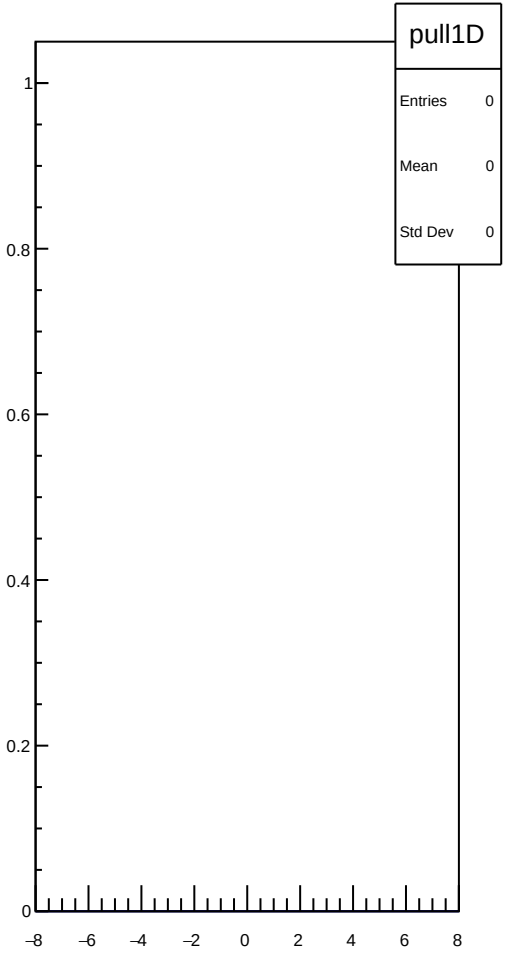

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

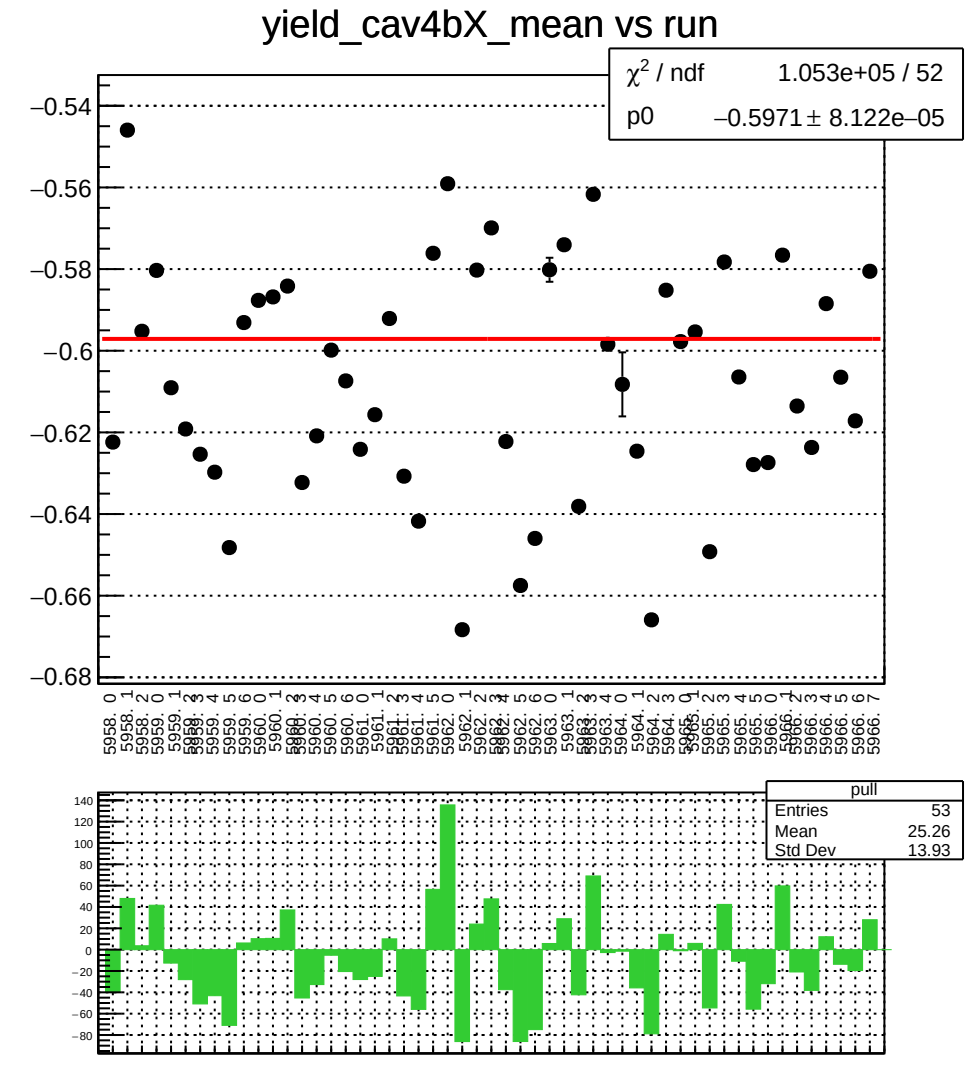

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

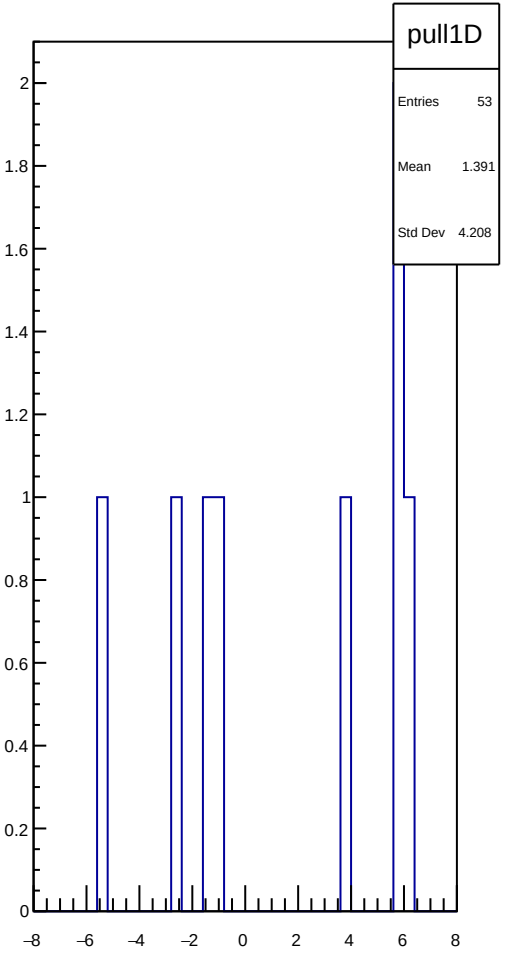

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

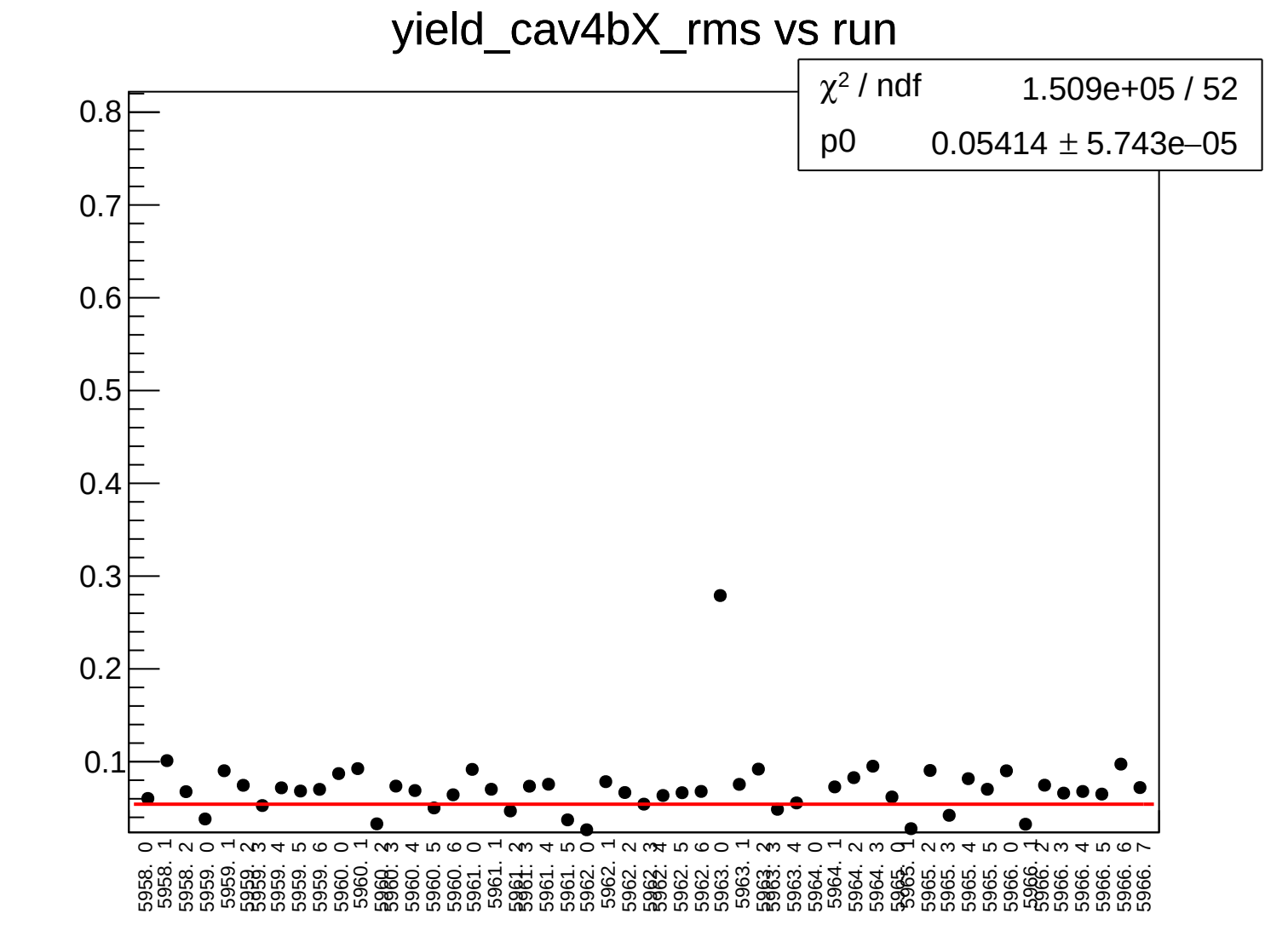

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

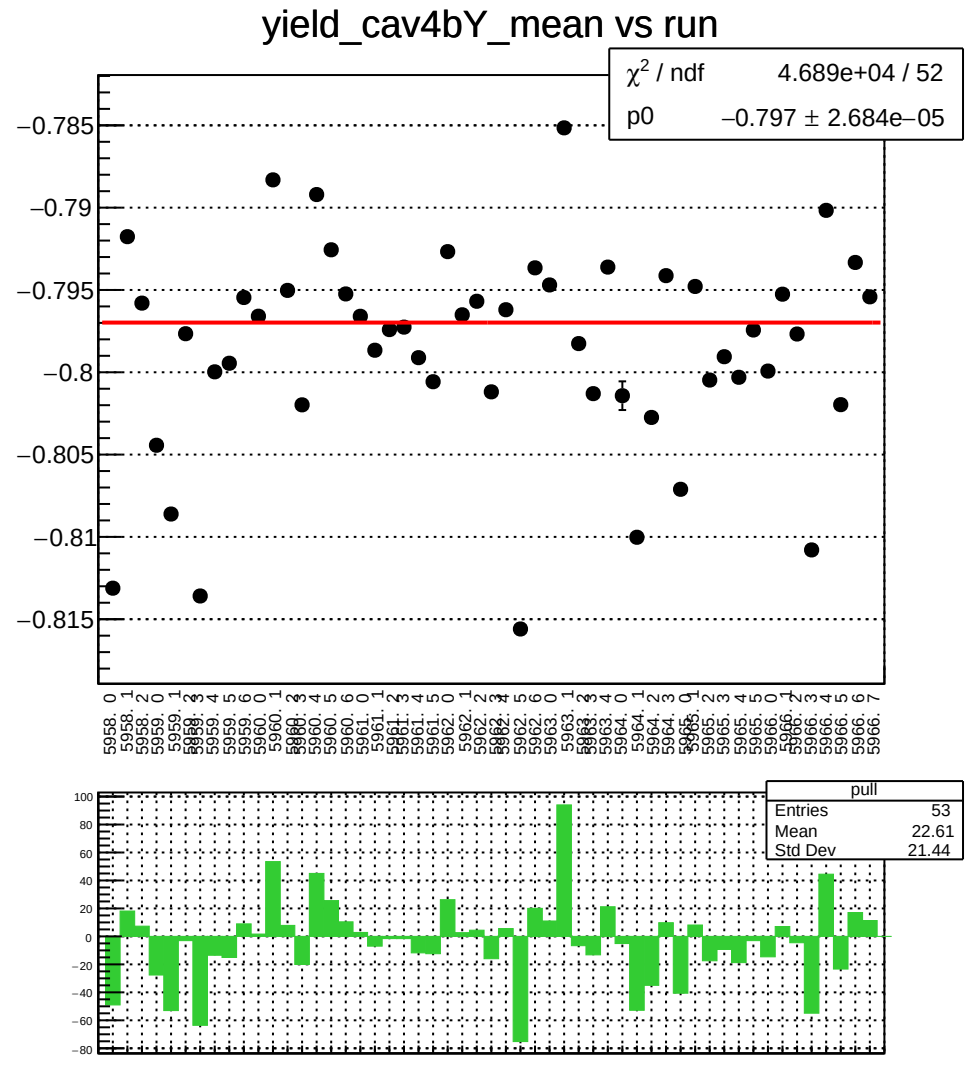

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

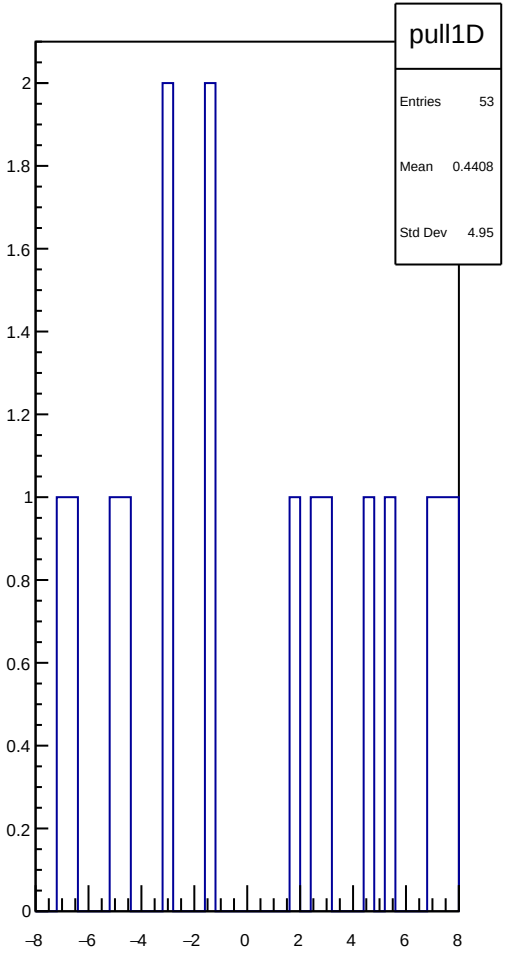

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

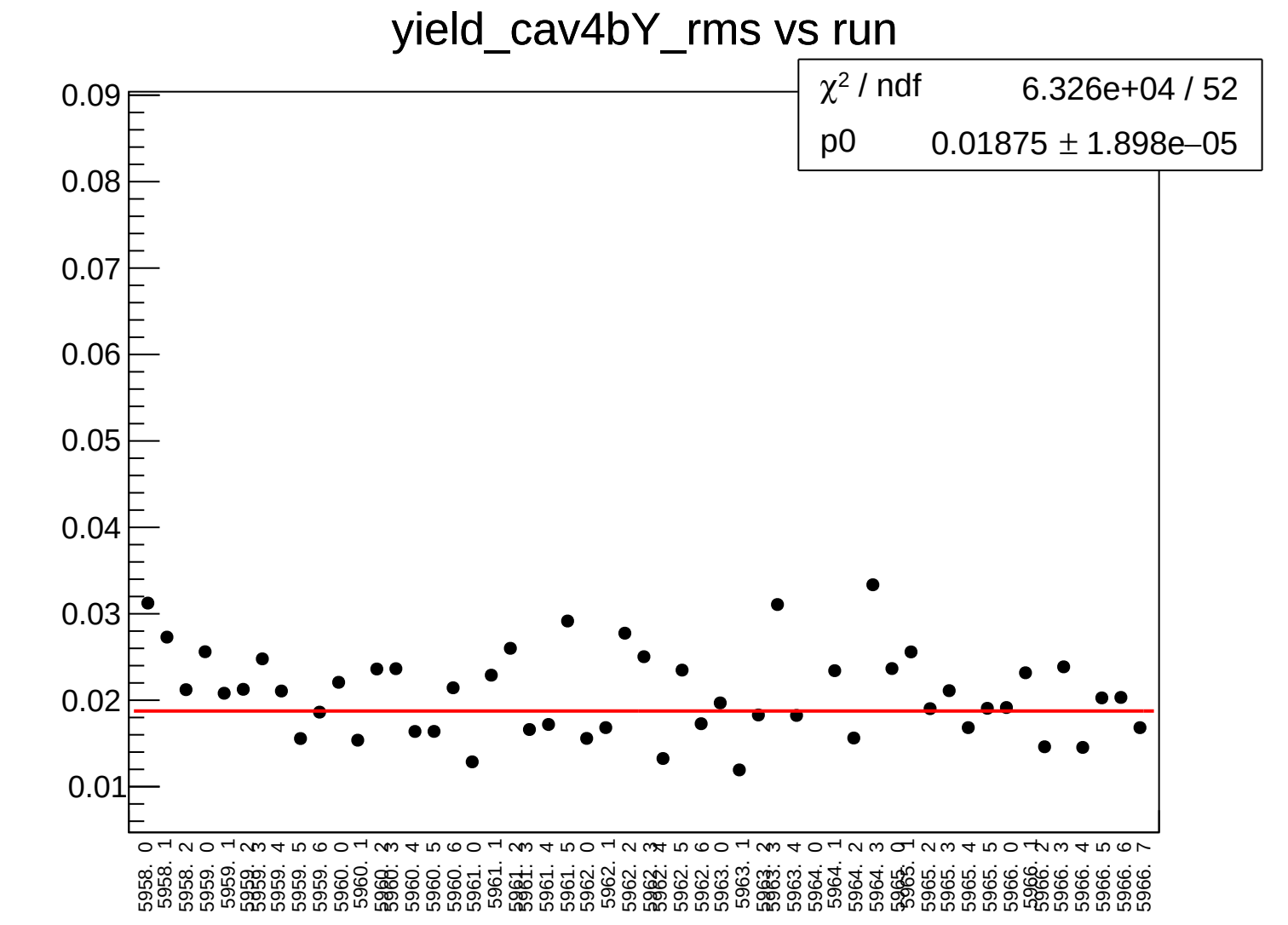

yield_cav4bX_mean vs run
χ² / ndf 1.053e+05 / 52
p0 −0.5971 ± 8.122e−05
pull
Entries 53
Mean 25.26
Std Dev 13.93

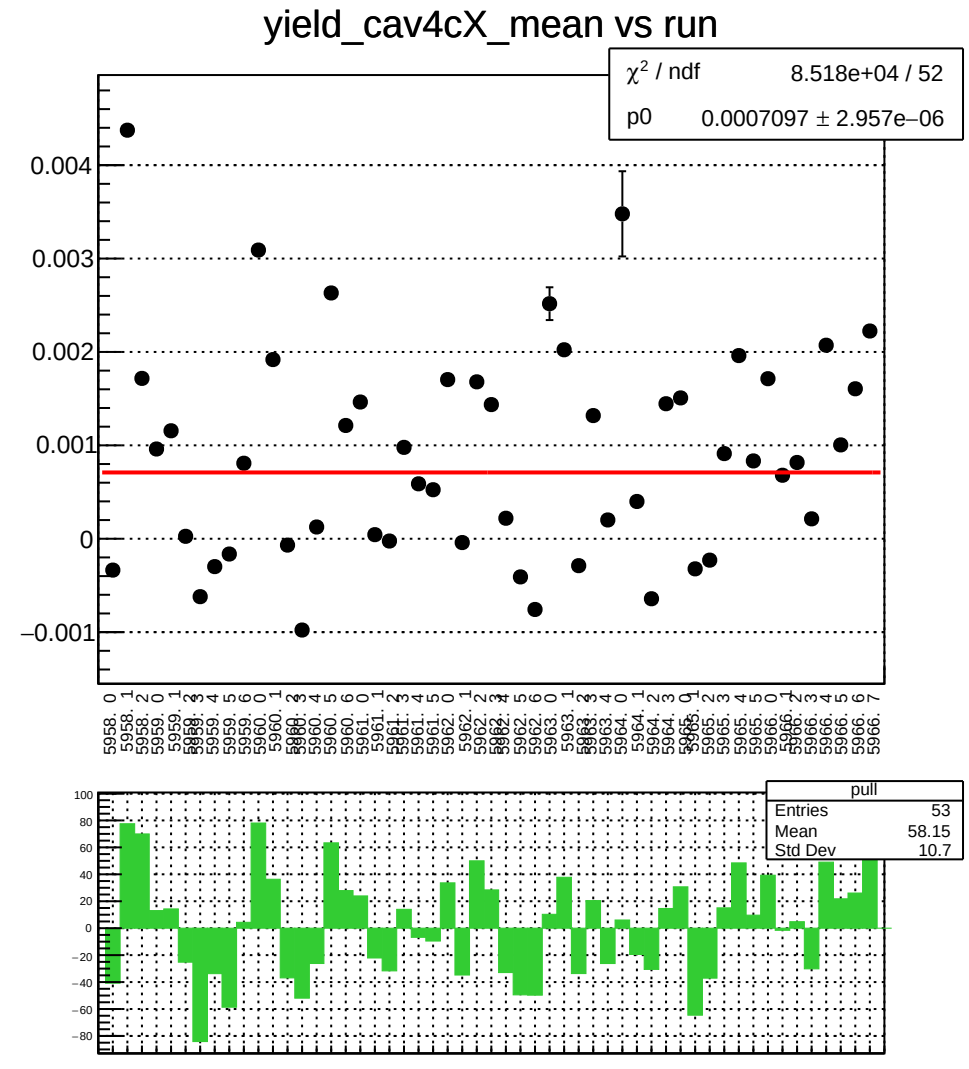

pull1D
Entries 53
Mean 1.391
Std Dev 4.208

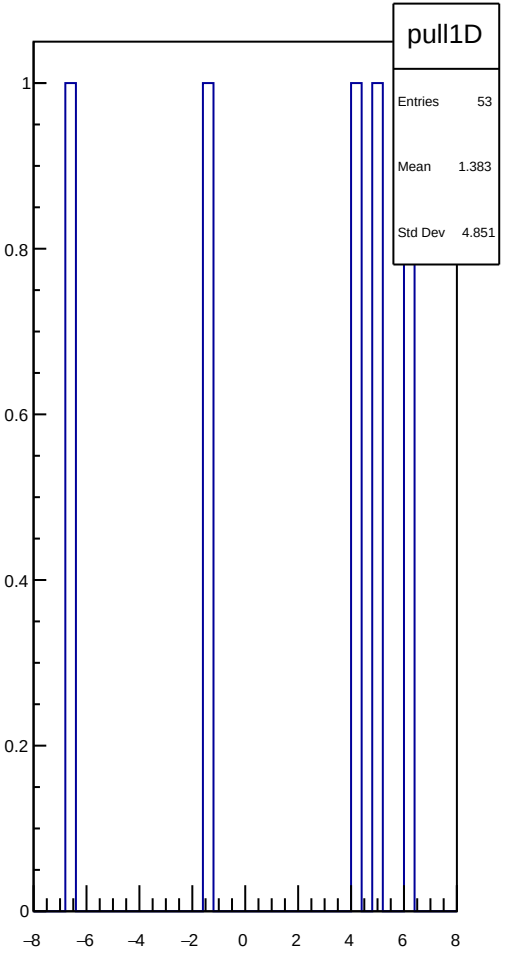

yield_cav4bX_rms vs run
χ² / ndf 1.509e+05 / 52
p0 0.05414 ± 5.743e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

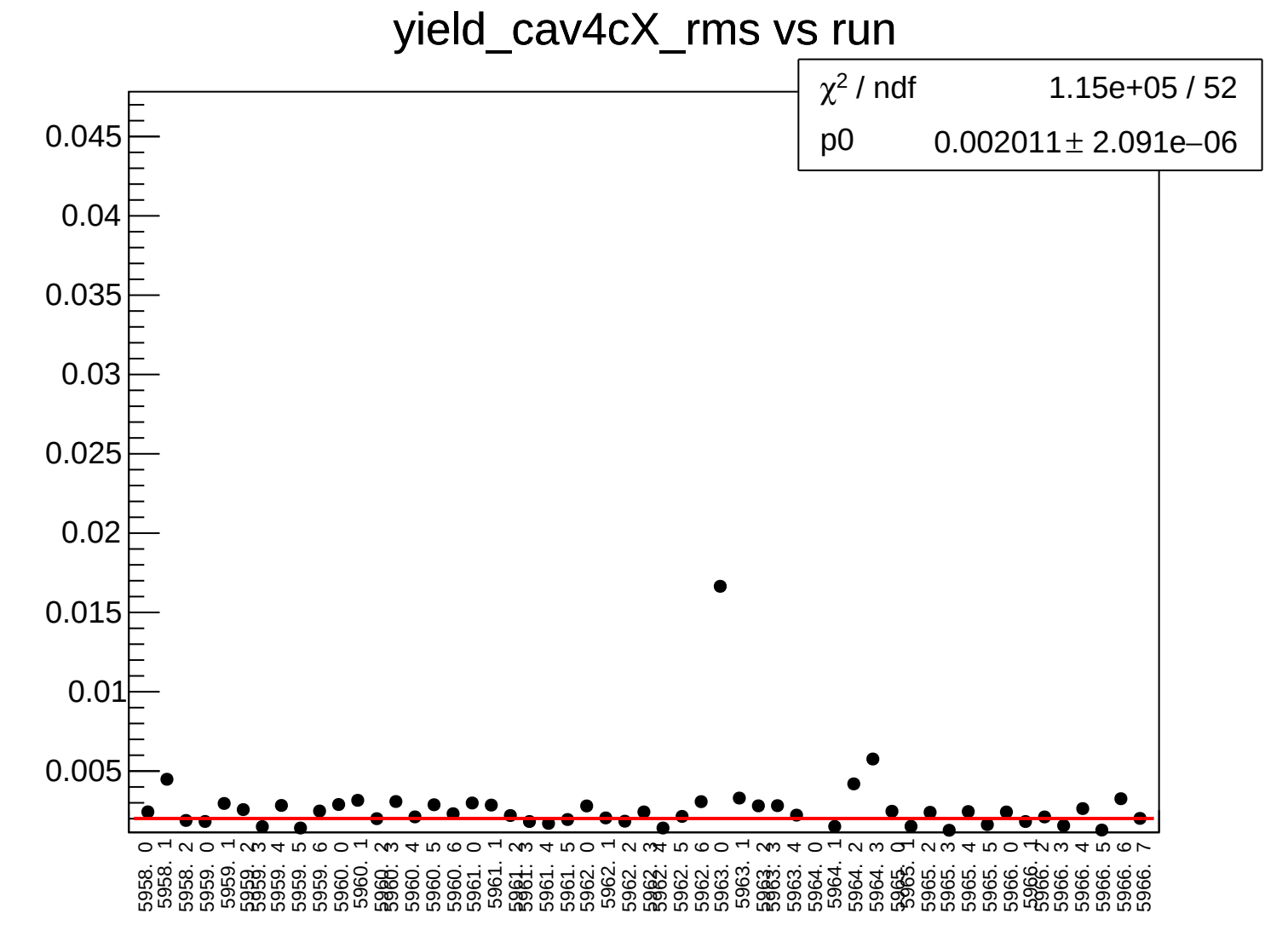

yield_cav4bY_mean vs run
χ² / ndf 4.689e+04 / 52
p0 −0.797 ± 2.684e−05
−0.785
−0.79
−0.795
−0.8
−0.805
−0.81
−0.815
pull
Entries 53
Mean 22.61
Std Dev 21.44
100
80
60
40
20
0
−20
−40
−60
−80

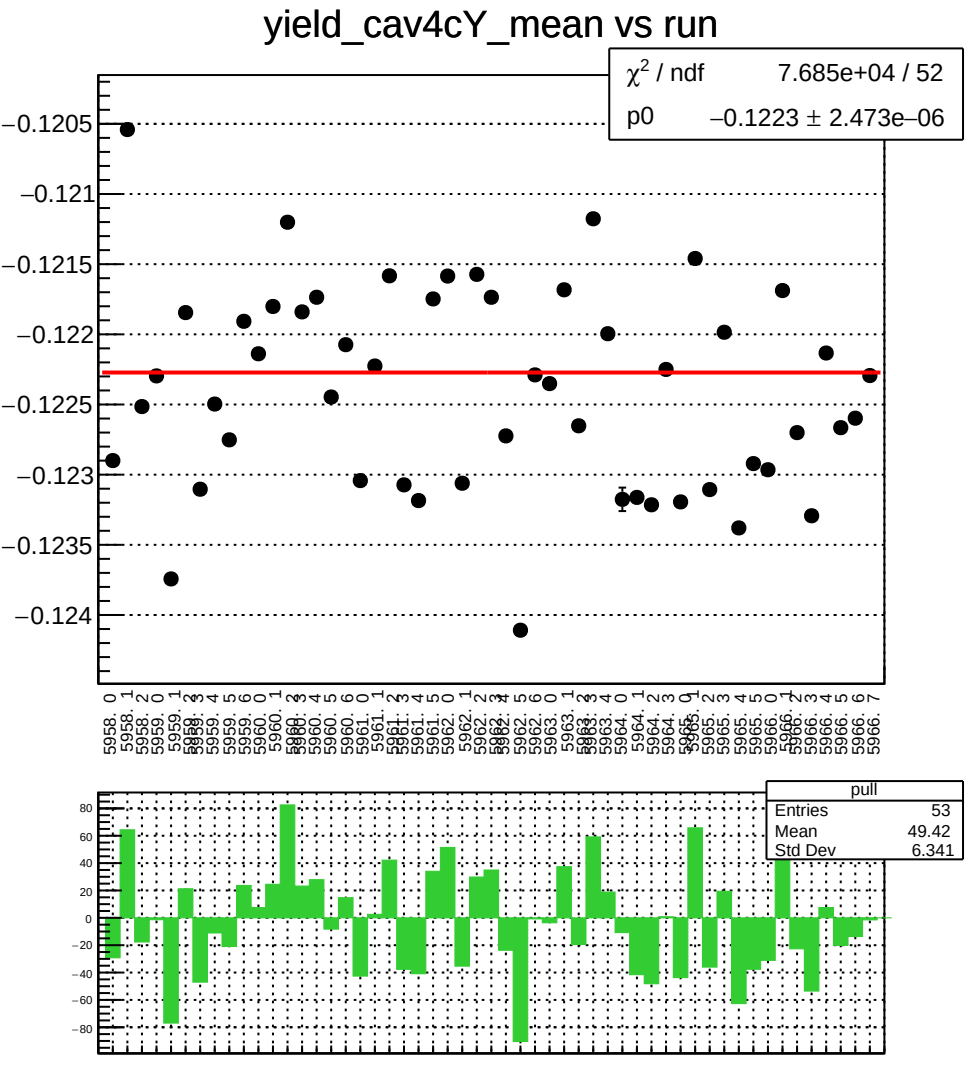

pull1D
Entries 53
Mean 0.4408
Std Dev 4.95
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

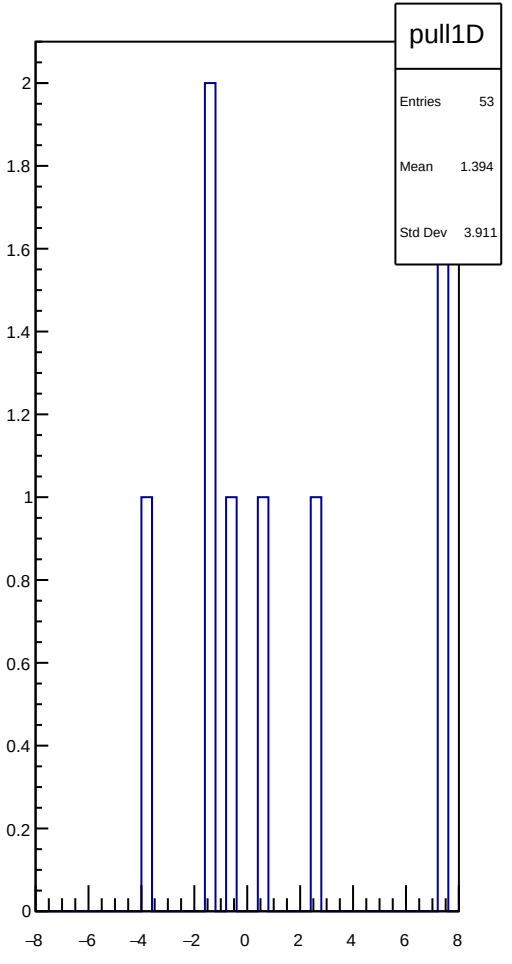

yield_cav4bY_rms vs run
χ² / ndf 6.326e+04 / 52
p0 0.01875 ± 1.898e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

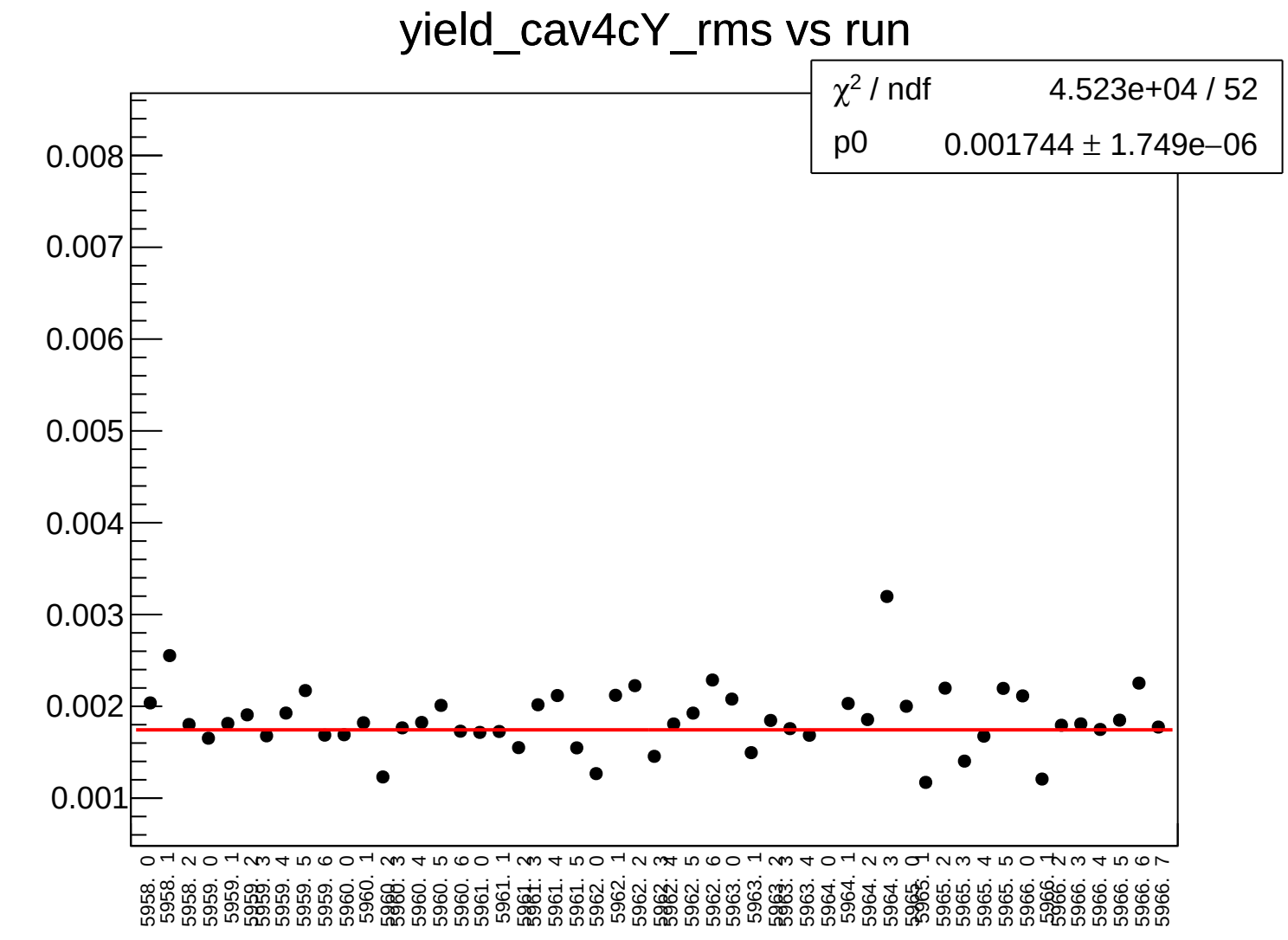

yield_cav4cX_mean vs run
χ² / ndf 8.518e+04 / 52
p0 0.0007097 ± 2.957e−06
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 53
Mean 58.15
Std Dev 10.7
100
80
60
40
20
0
−20
−40
−60
−80

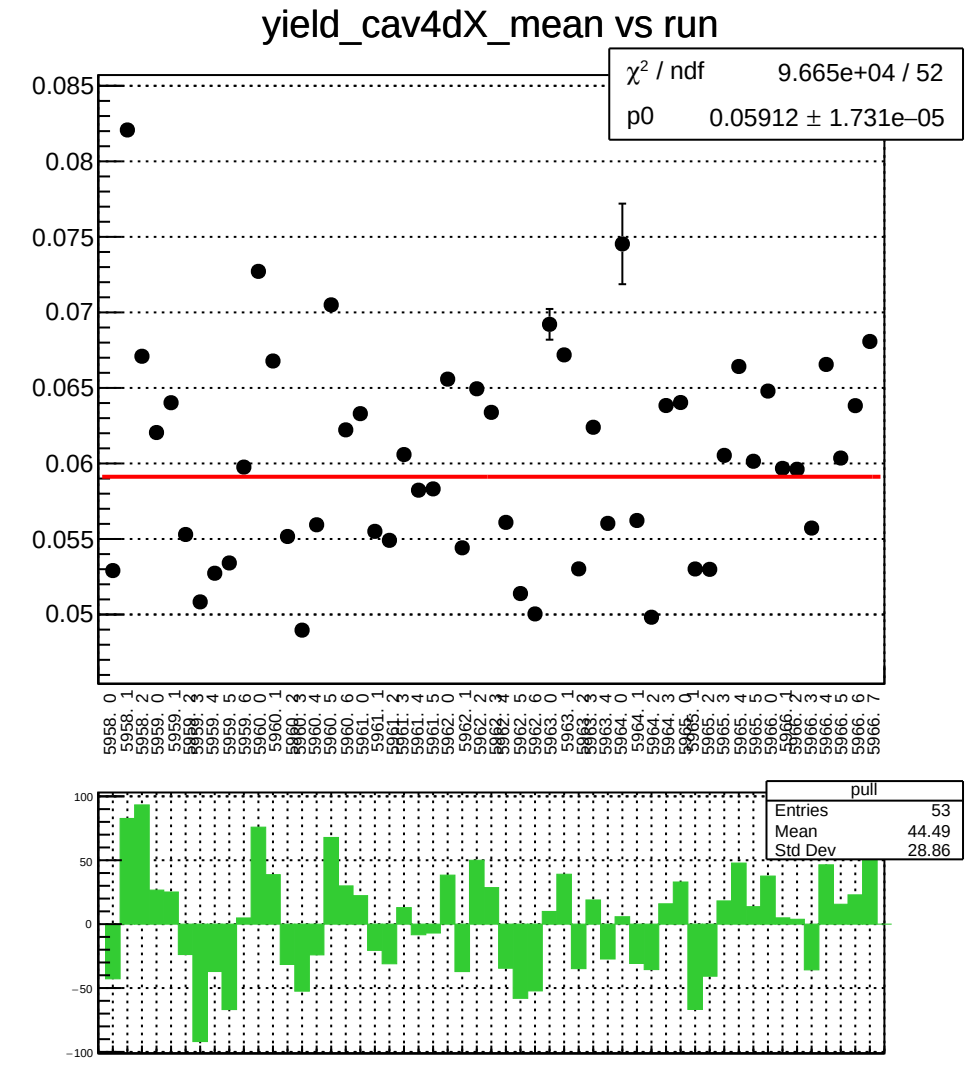

pull1D
Entries 53
Mean 1.383
Std Dev 4.851
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

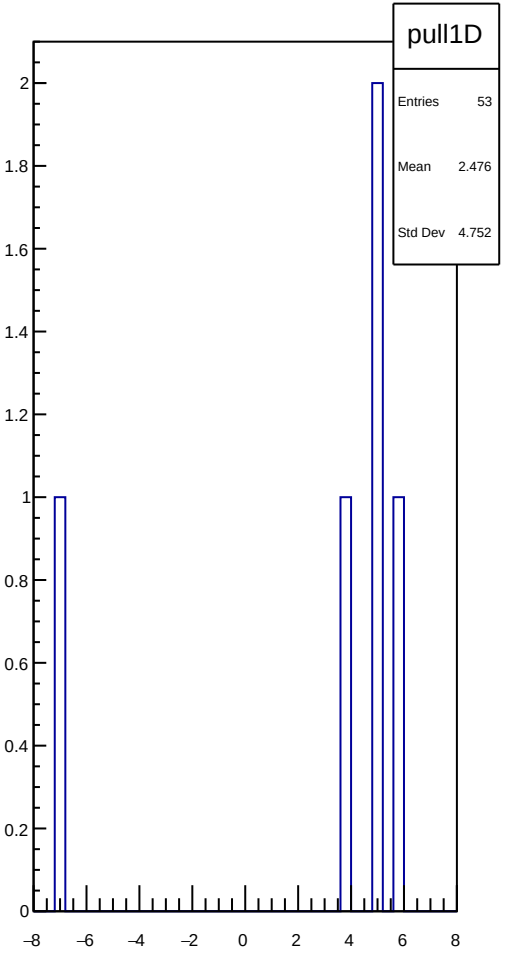

yield_cav4cX_rms vs run
χ² / ndf 1.15e+05 / 52
p0 0.002011 ± 2.091e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

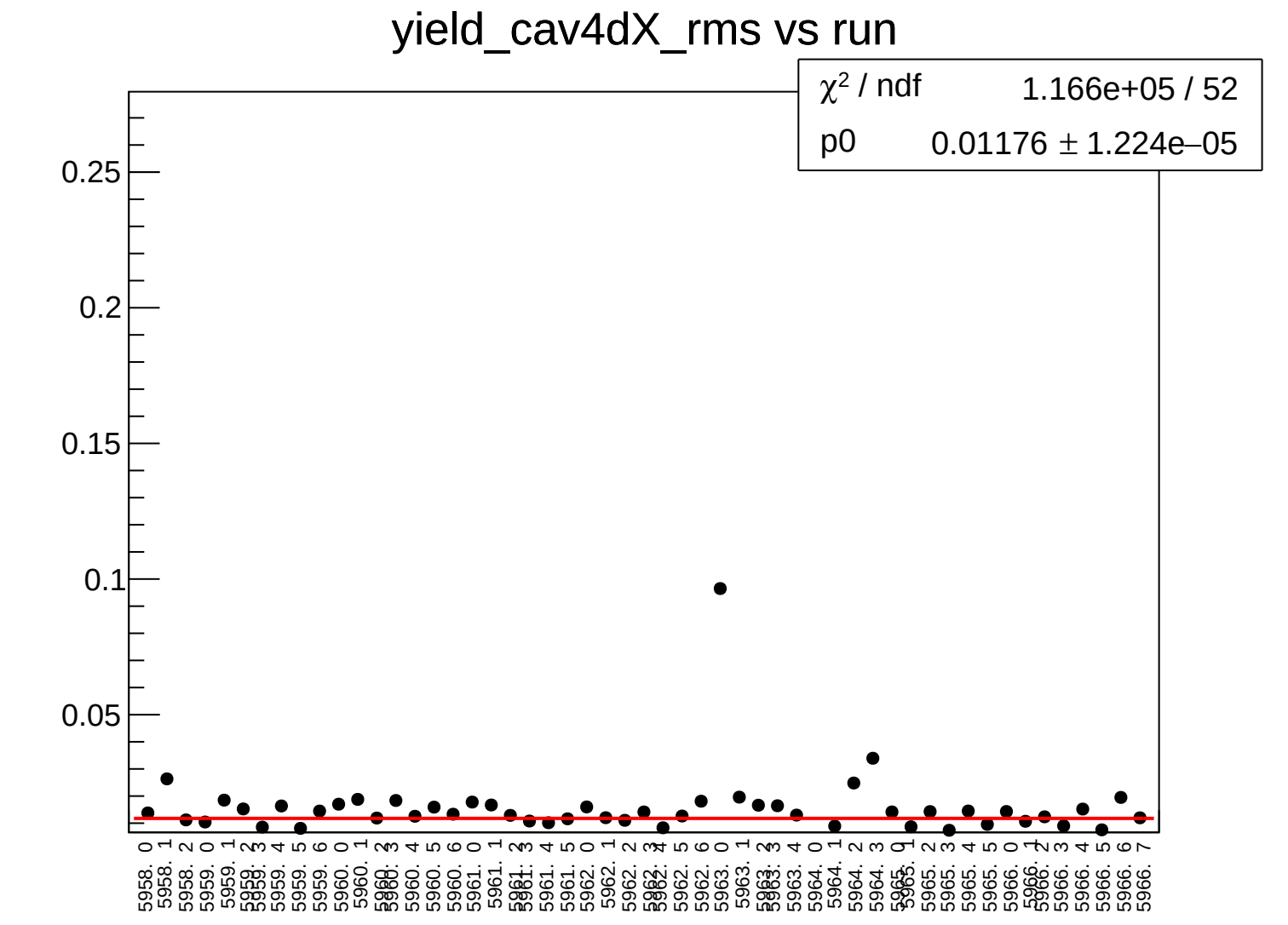

yield_cav4cY_mean vs run
χ² / ndf 7.685e+04 / 52
p0 −0.1223 ± 2.473e−06
−0.1205
−0.121
−0.1215
−0.122
−0.1225
−0.123
−0.1235
−0.124
pull
Entries 53
Mean 49.42
Std Dev 6.341
80
60
40
20
0
−20
−40
−60
−80

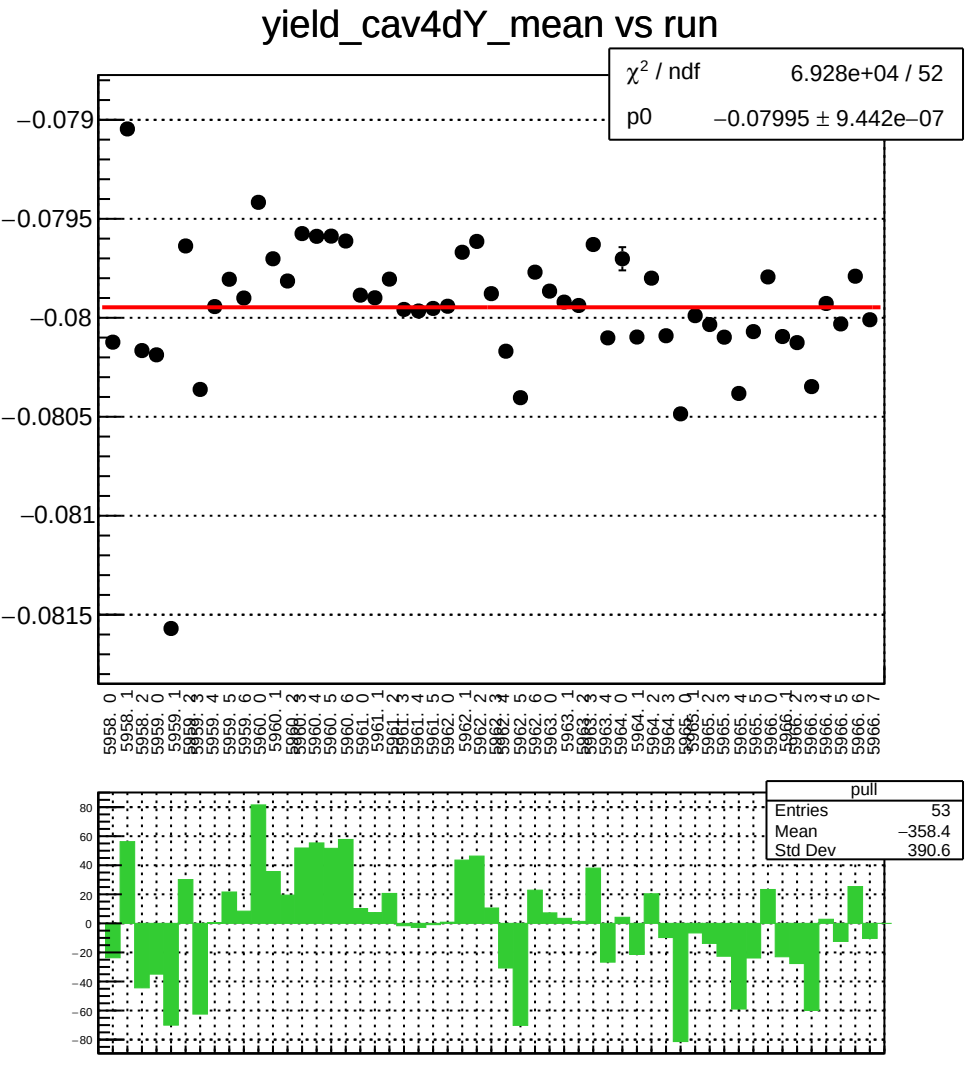

pull1D
Entries 53
Mean 1.394
Std Dev 3.911
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

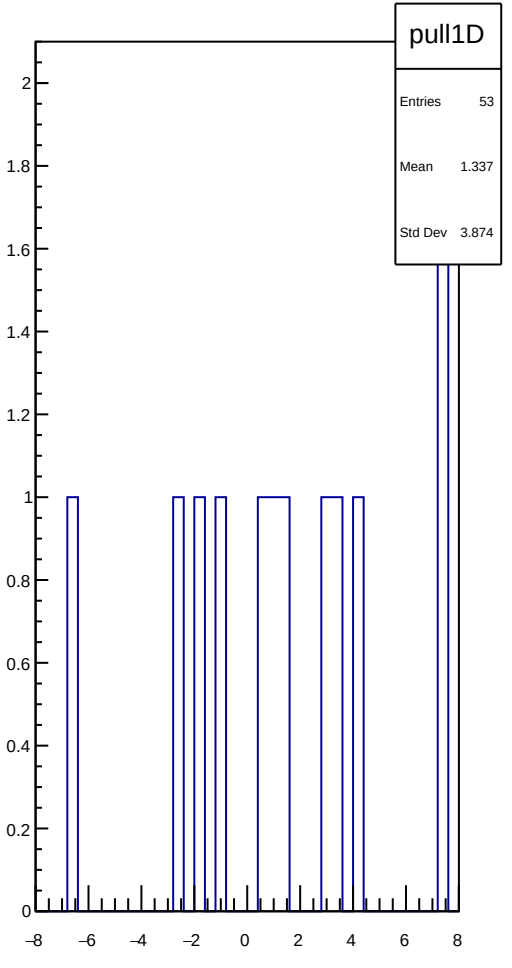

yield_cav4cY_rms vs run
χ² / ndf 4.523e+04 / 52
p0 0.001744 ± 1.749e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

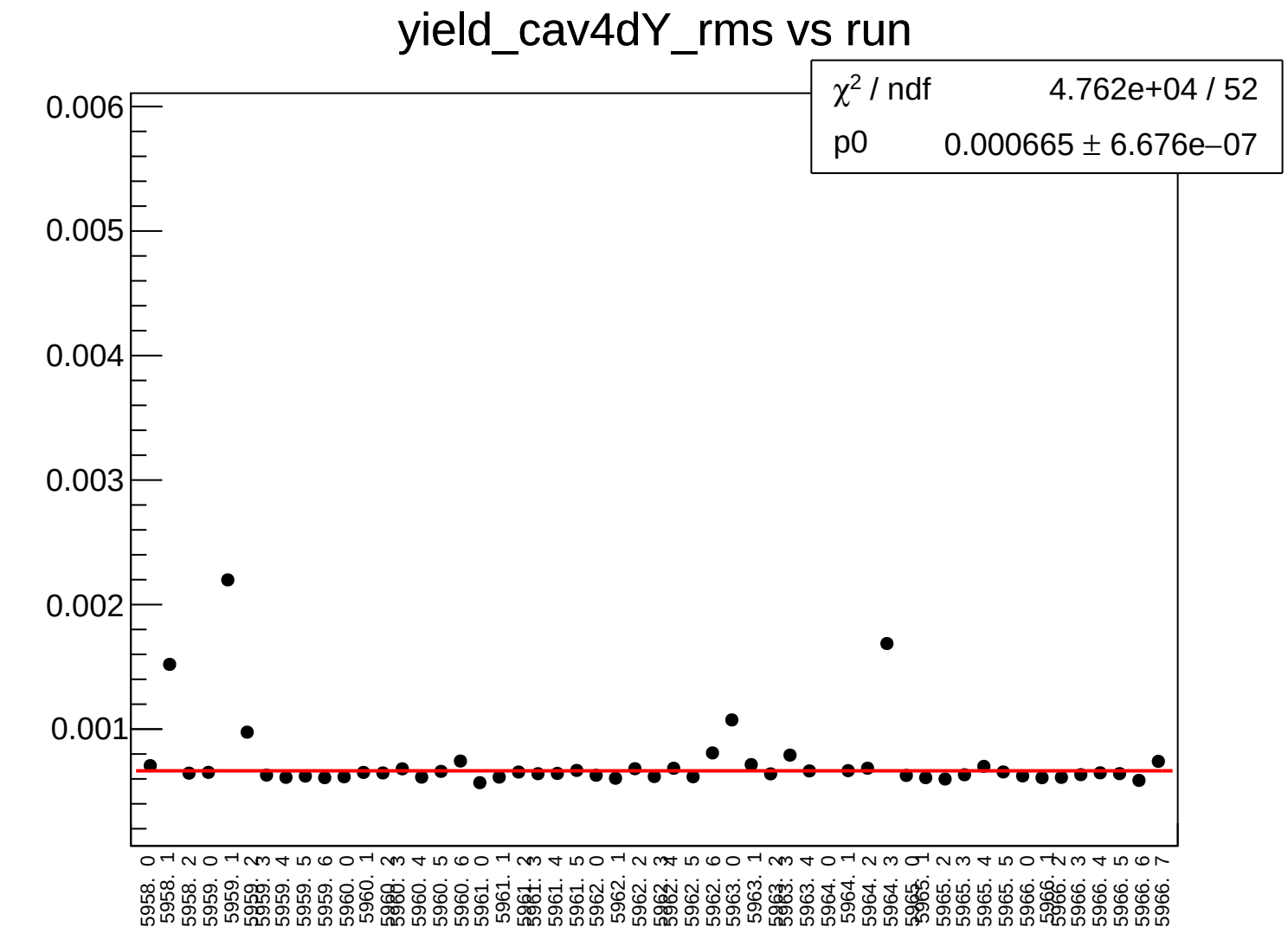

yield_cav4dX_mean vs run
χ² / ndf 9.665e+04 / 52
p0 0.05912 ± 1.731e−05
pull
Entries 53
Mean 44.49
Std Dev 28.86

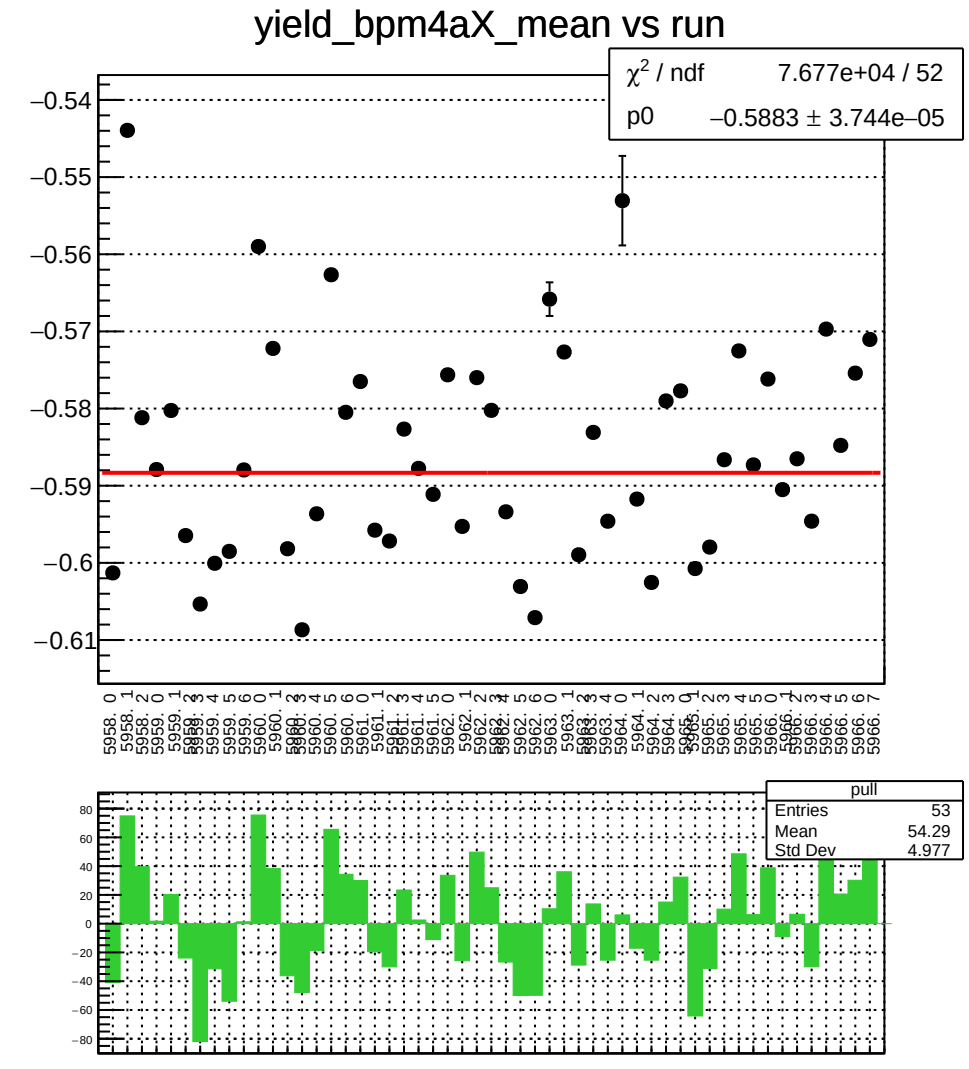

pull1D
Entries 53
Mean 2.476
Std Dev 4.752

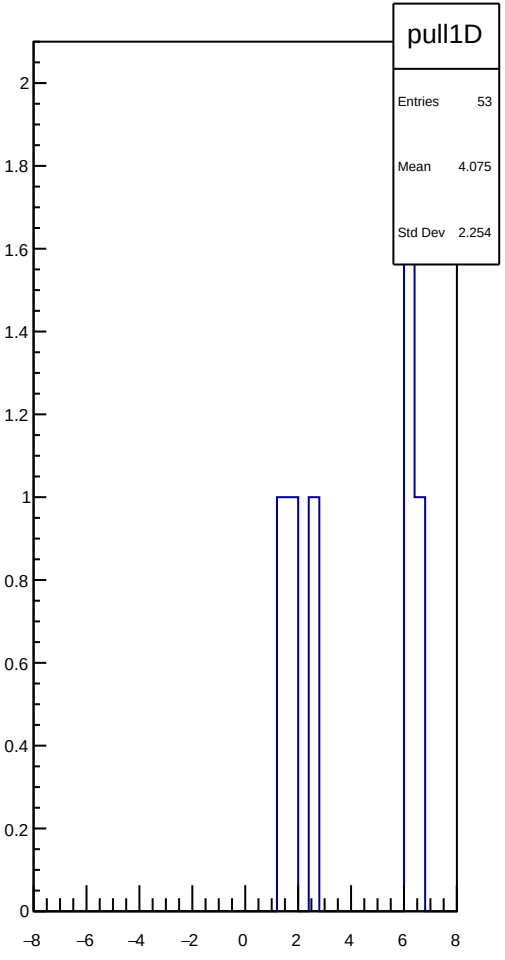

yield_cav4dX_rms vs run
χ² / ndf 1.166e+05 / 52
p0 0.01176 ± 1.224e–05
0.25
0.2
0.15
0.1
0.05

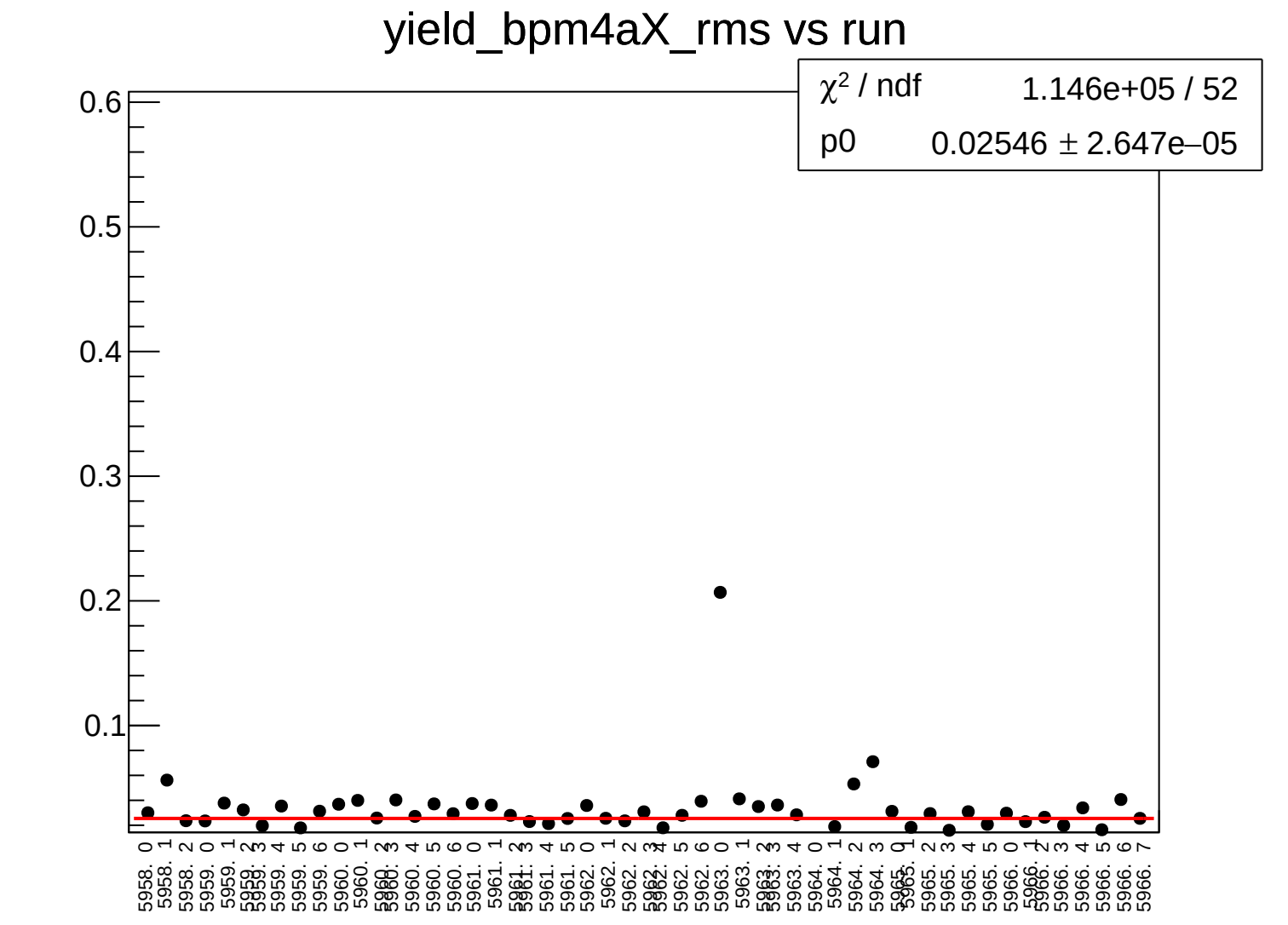

yield_cav4dY_mean vs run
χ² / ndf 6.928e+04 / 52
p0 −0.07995 ± 9.442e−07
−0.079
−0.0795
−0.08
−0.0805
−0.081
−0.0815
pull
Entries 53
Mean −358.4
Std Dev 390.6
80
60
40
20
0
−20
−40
−60
−80

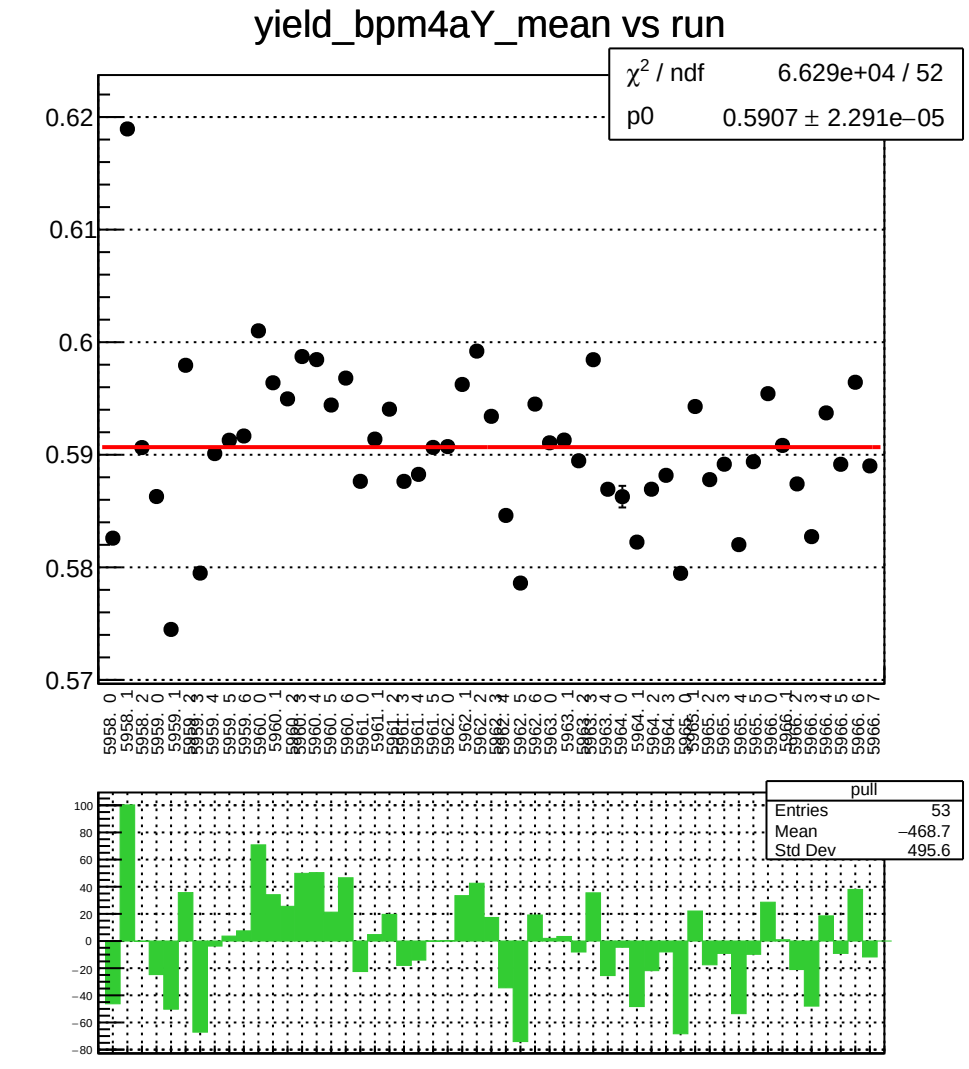

pull1D
Entries 53
Mean 1.337
Std Dev 3.874
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

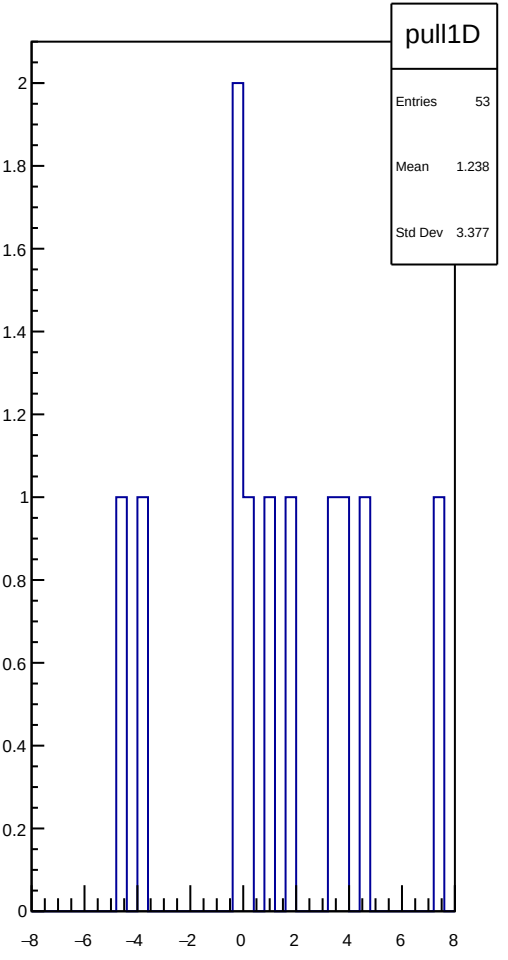

yield_cav4dY_rms vs run
χ² / ndf 4.762e+04 / 52
p0 0.000665 ± 6.676e−07
0.006
0.005
0.004
0.003
0.002
0.001
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

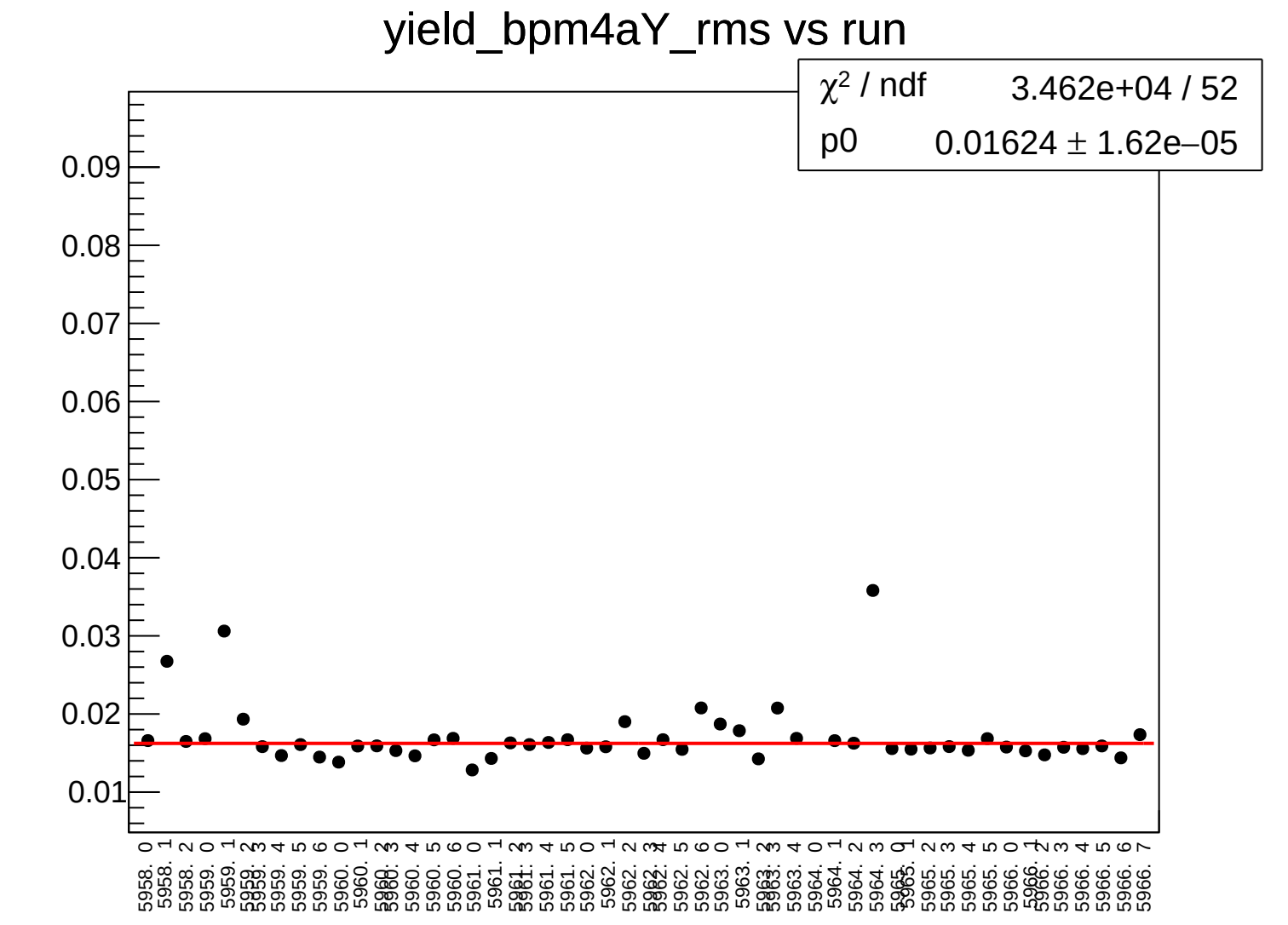

yield_bpm4aX_mean vs run
χ² / ndf 7.677e+04 / 52
p0 −0.5883 ± 3.744e−05
pull
Entries 53
Mean 54.29
Std Dev 4.977

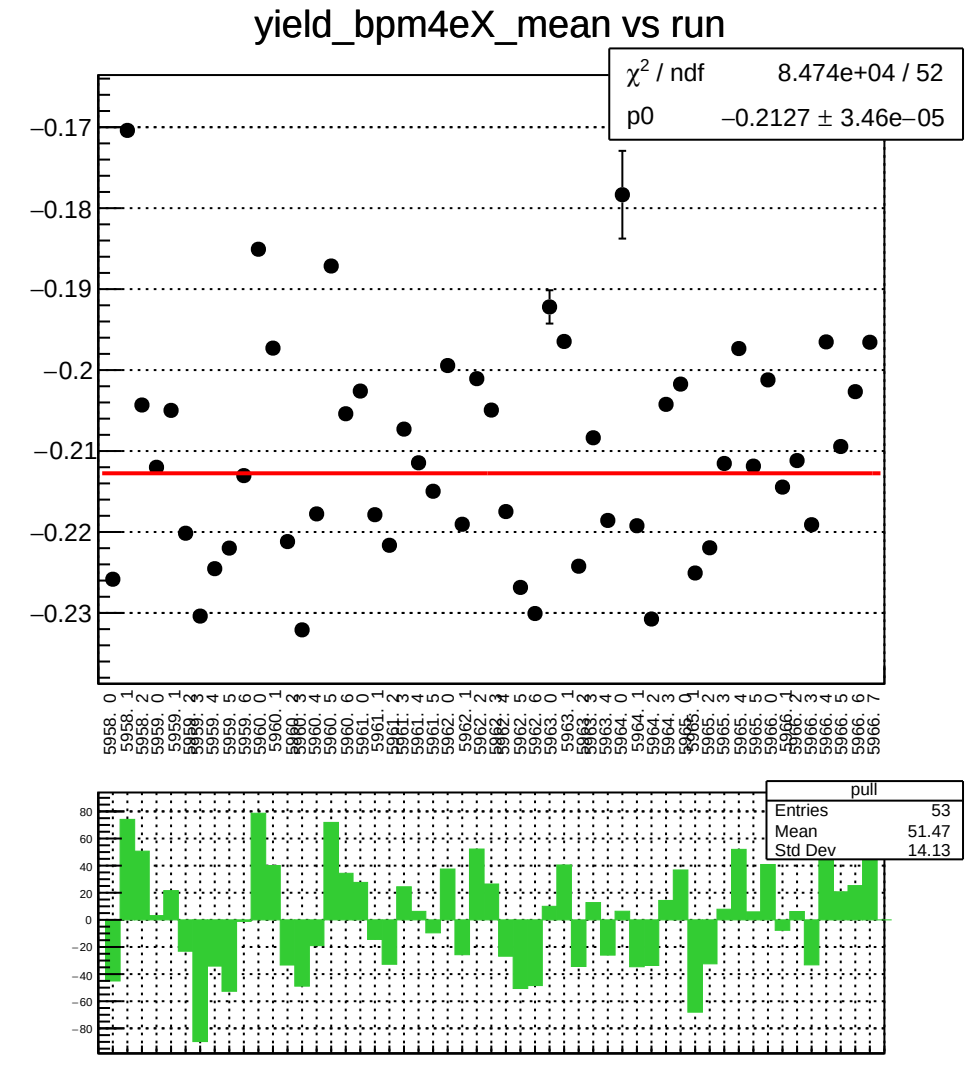

pull1D
Entries 53
Mean 4.075
Std Dev 2.254

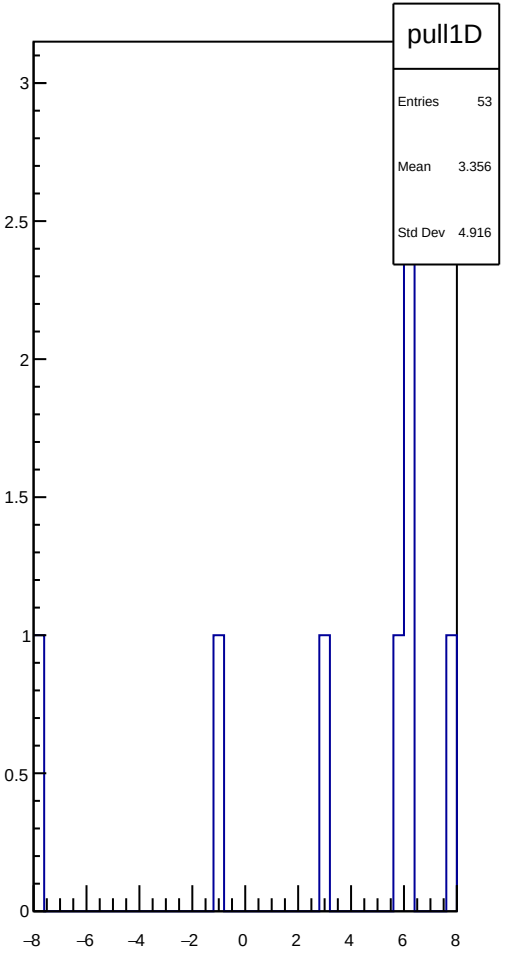

yield_bpm4aX_rms vs run
χ² / ndf 1.146e+05 / 52
p0 0.02546 ± 2.647e–05
0.6
0.5
0.4
0.3
0.2
0.1

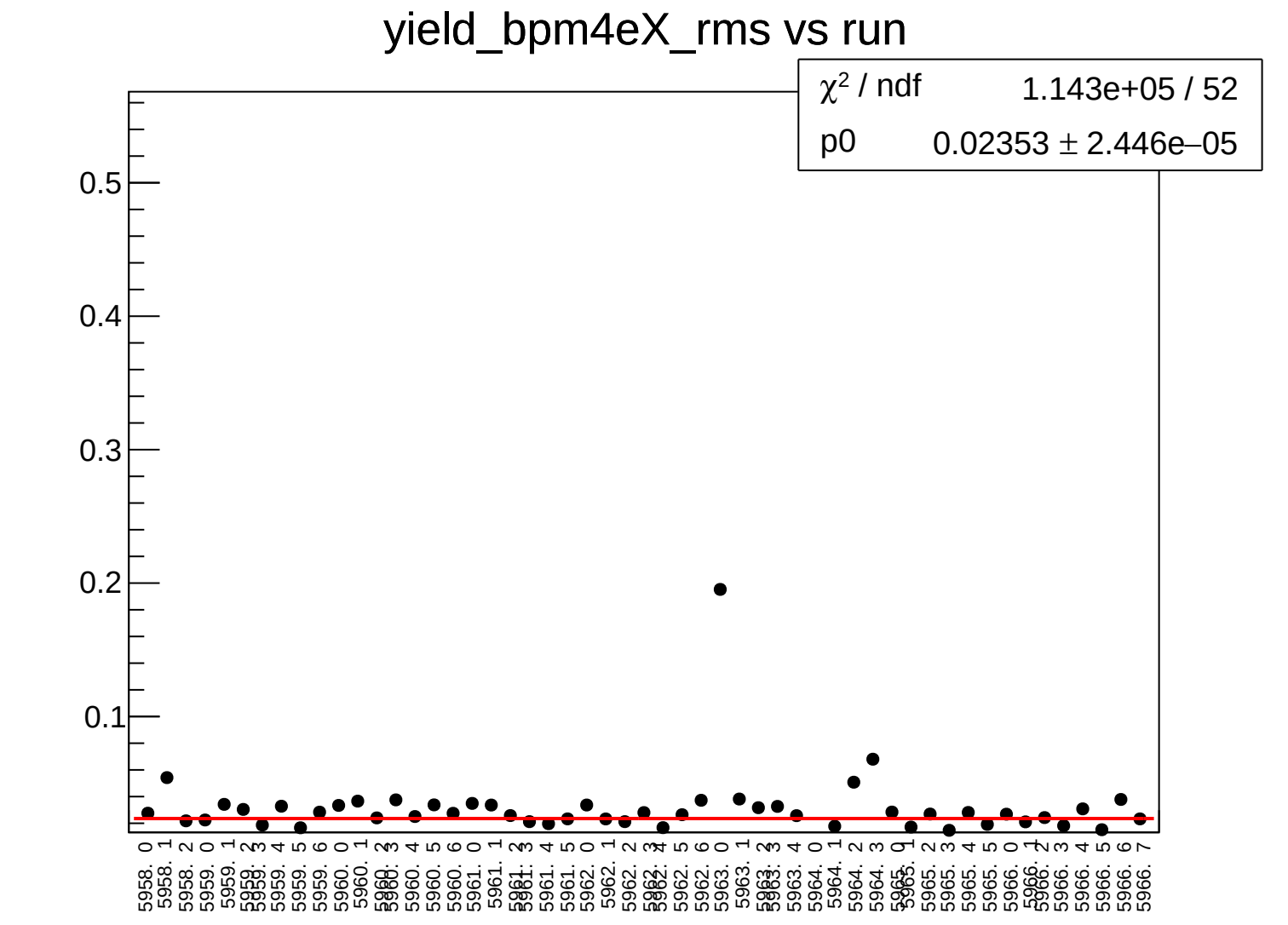

yield_bpm4aY_mean vs run
χ² / ndf 6.629e+04 / 52
p0 0.5907 ± 2.291e−05
0.62
0.61
0.6
0.59
0.58
0.57
pull
Entries 53
Mean −468.7
Std Dev 495.6
100
80
60
40
20
0
−20
−40
−60
−80

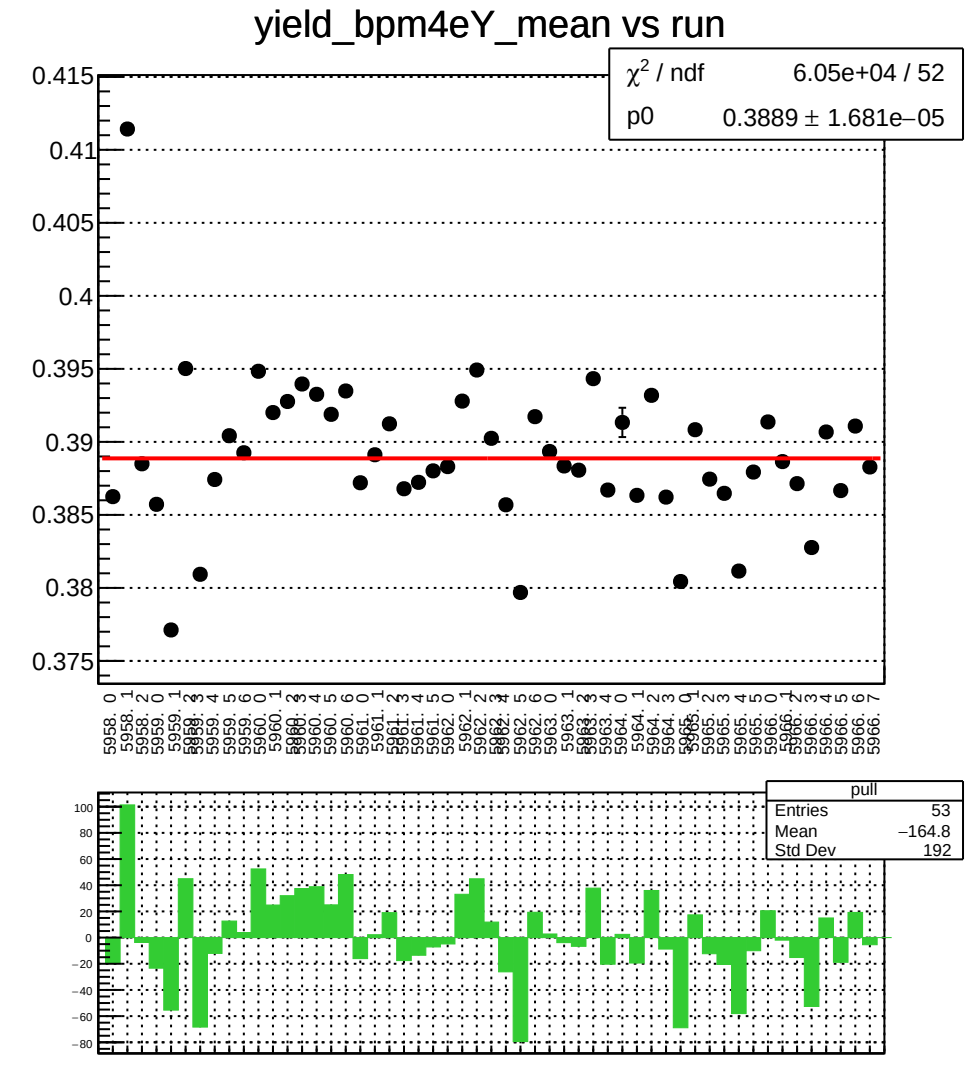

pull1D
Entries 53
Mean 1.238
Std Dev 3.377
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

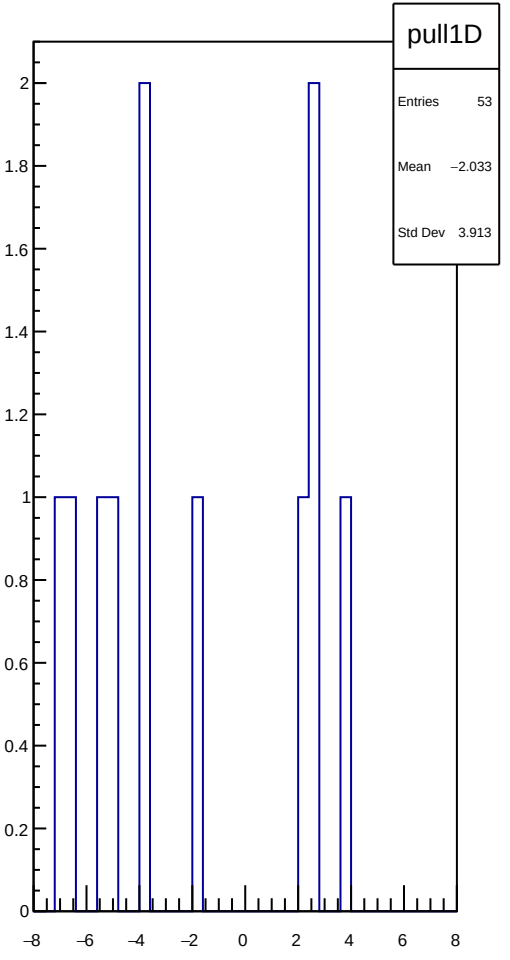

yield_bpm4aY_rms vs run
χ² / ndf 3.462e+04 / 52
p0 0.01624 ± 1.62e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

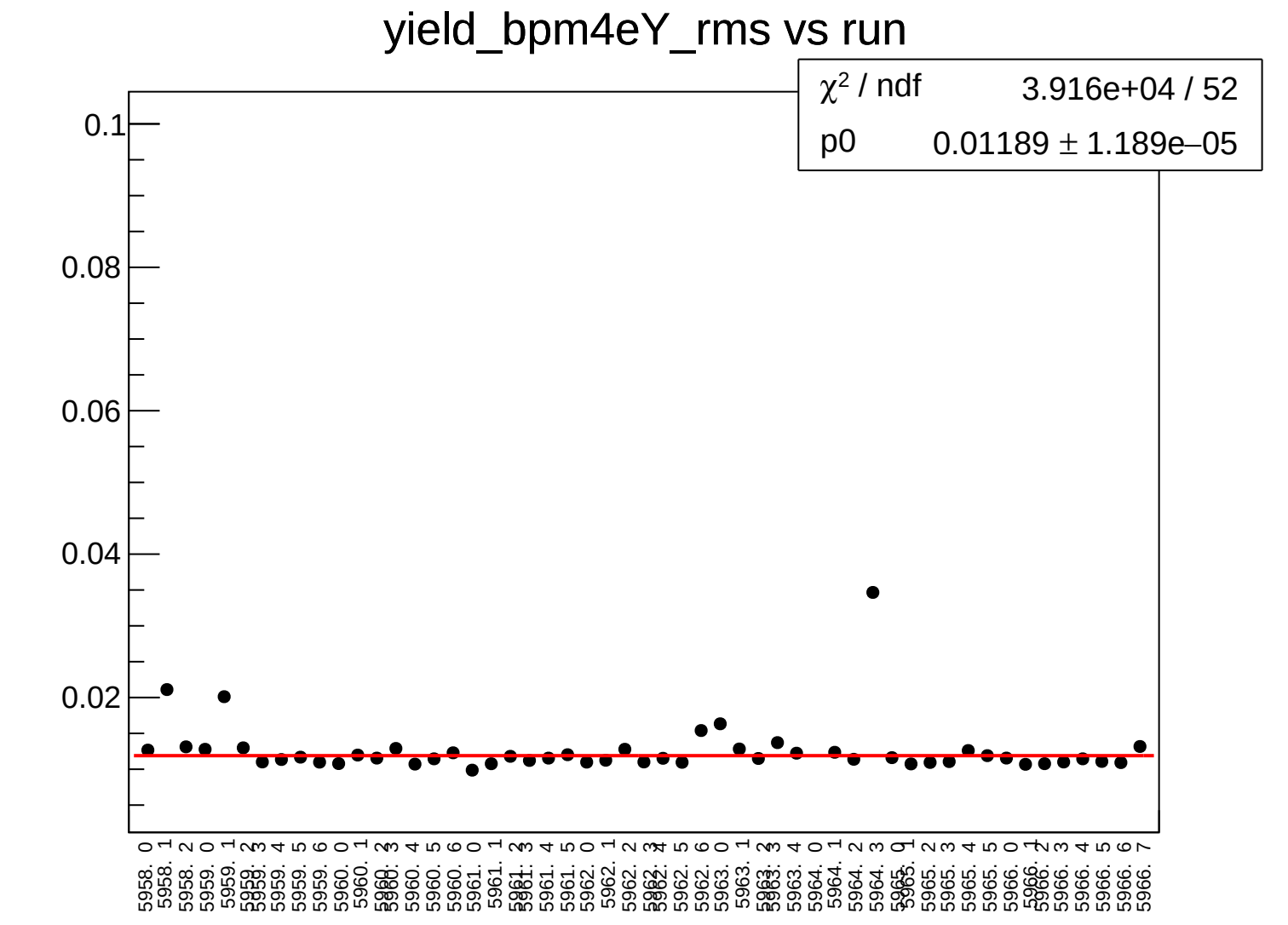

yield_bpm4eX_mean vs run
χ² / ndf 8.474e+04 / 52
p0 −0.2127 ± 3.46e−05
−0.17
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
pull
Entries 53
Mean 51.47
Std Dev 14.13
80
60
40
20
0
−20
−40
−60
−80

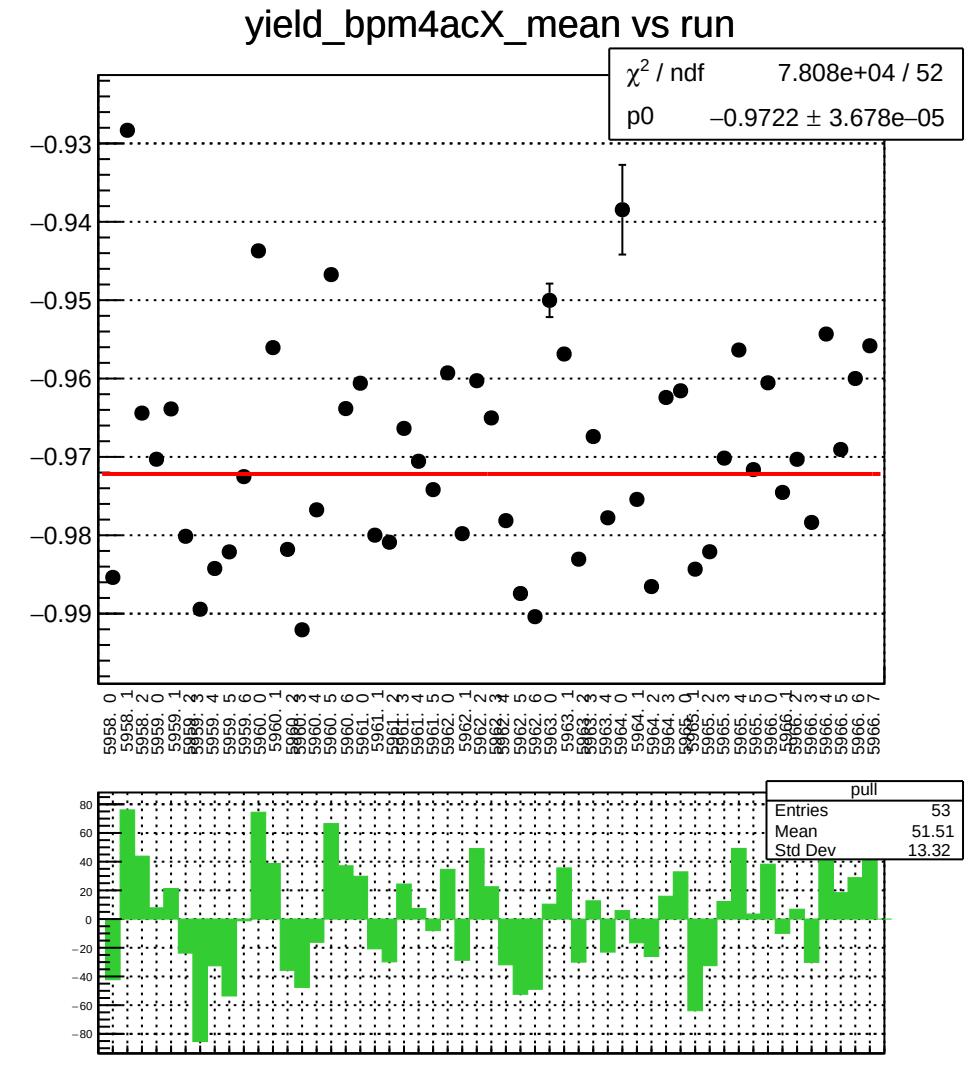

pull1D
Entries 53
Mean 3.356
Std Dev 4.916
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

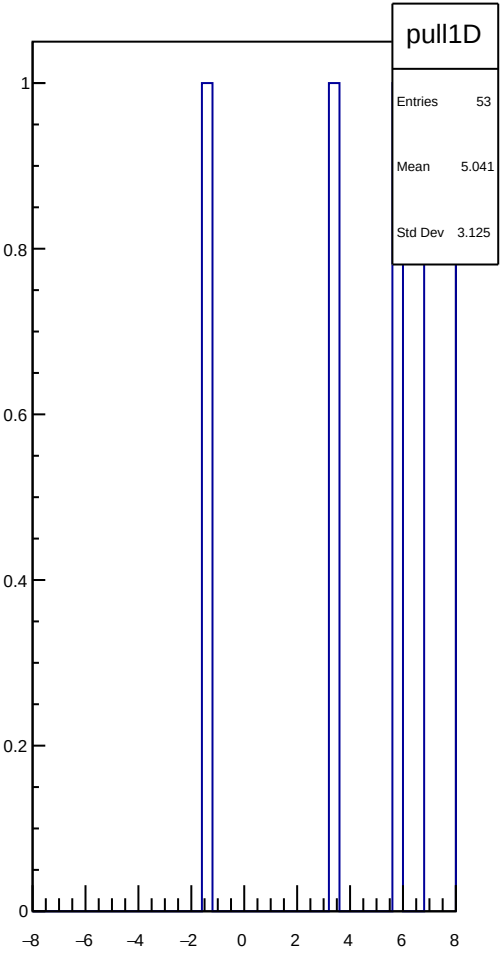

yield_bpm4eX_rms vs run
χ² / ndf 1.143e+05 / 52
p0 0.02353 ± 2.446e−05
0.5
0.4
0.3
0.2
0.1

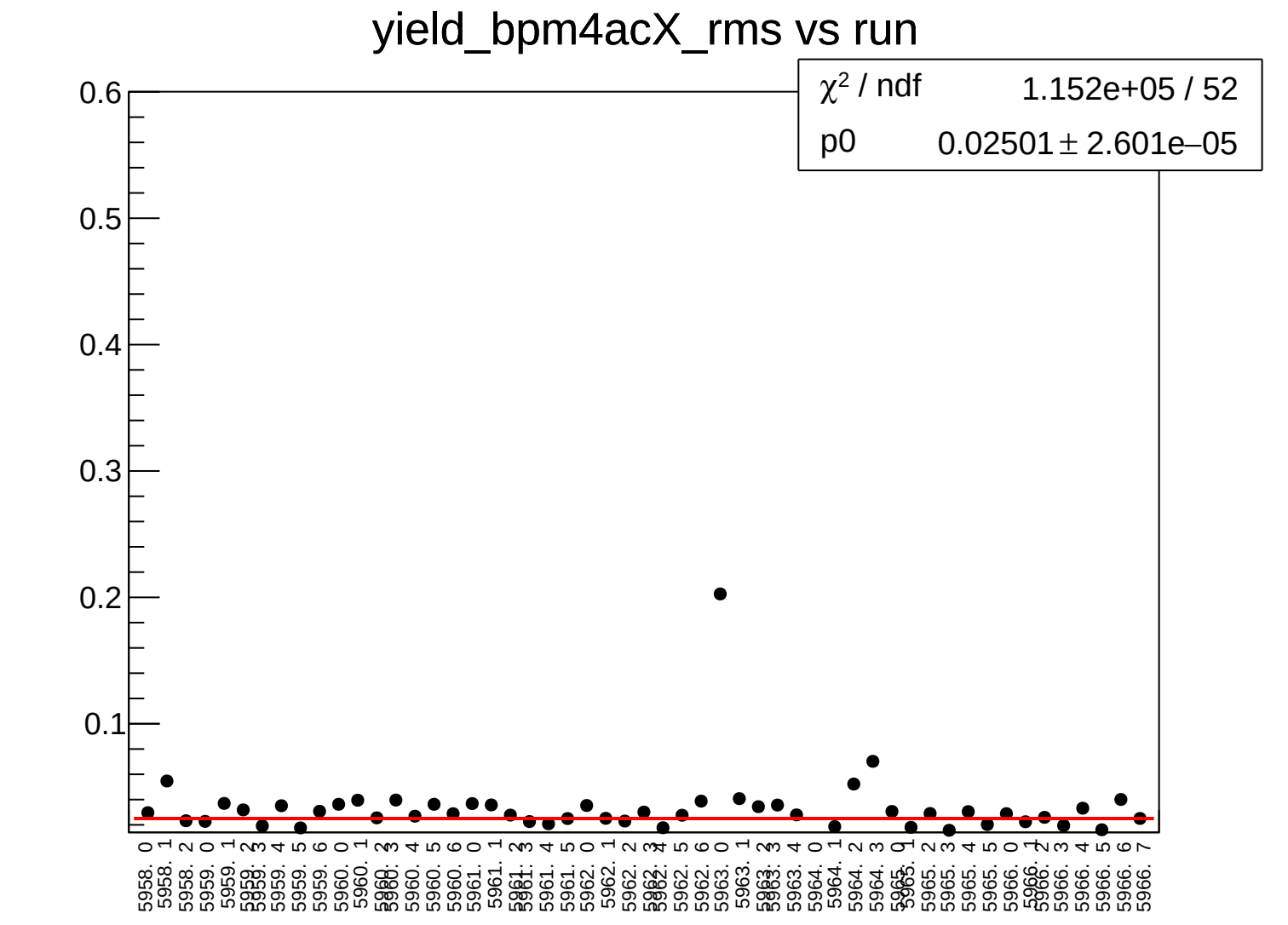

yield_bpm4eY_mean vs run
χ² / ndf 6.05e+04 / 52
p0 0.3889 ± 1.681e−05
pull
Entries 53
Mean −164.8
Std Dev 192

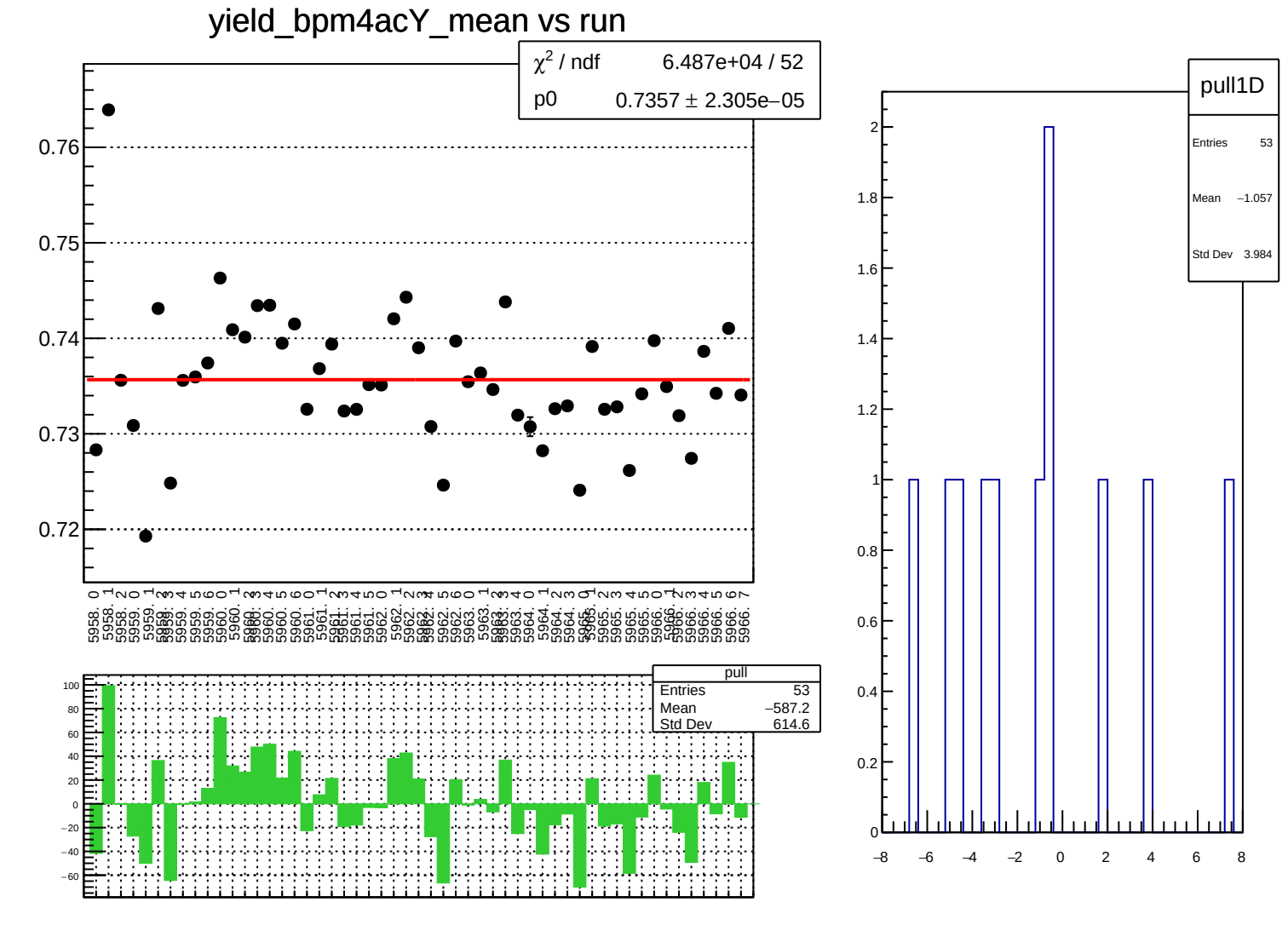

pull1D
Entries 53
Mean −2.033
Std Dev 3.913

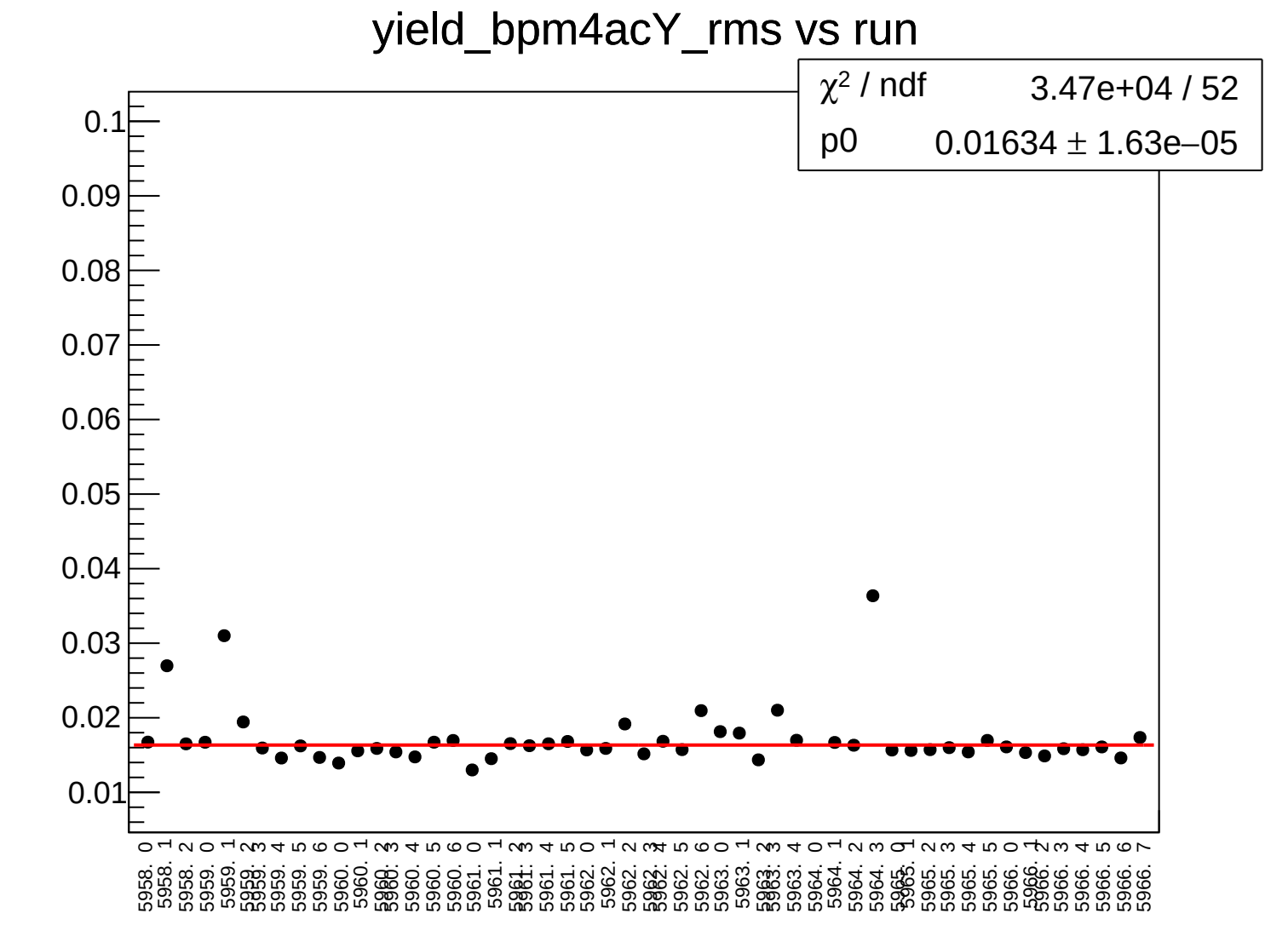

yield_bpm4eY_rms vs run
χ² / ndf 3.916e+04 / 52
p0 0.01189 ± 1.189e–05
0.1
0.08
0.06
0.04
0.02

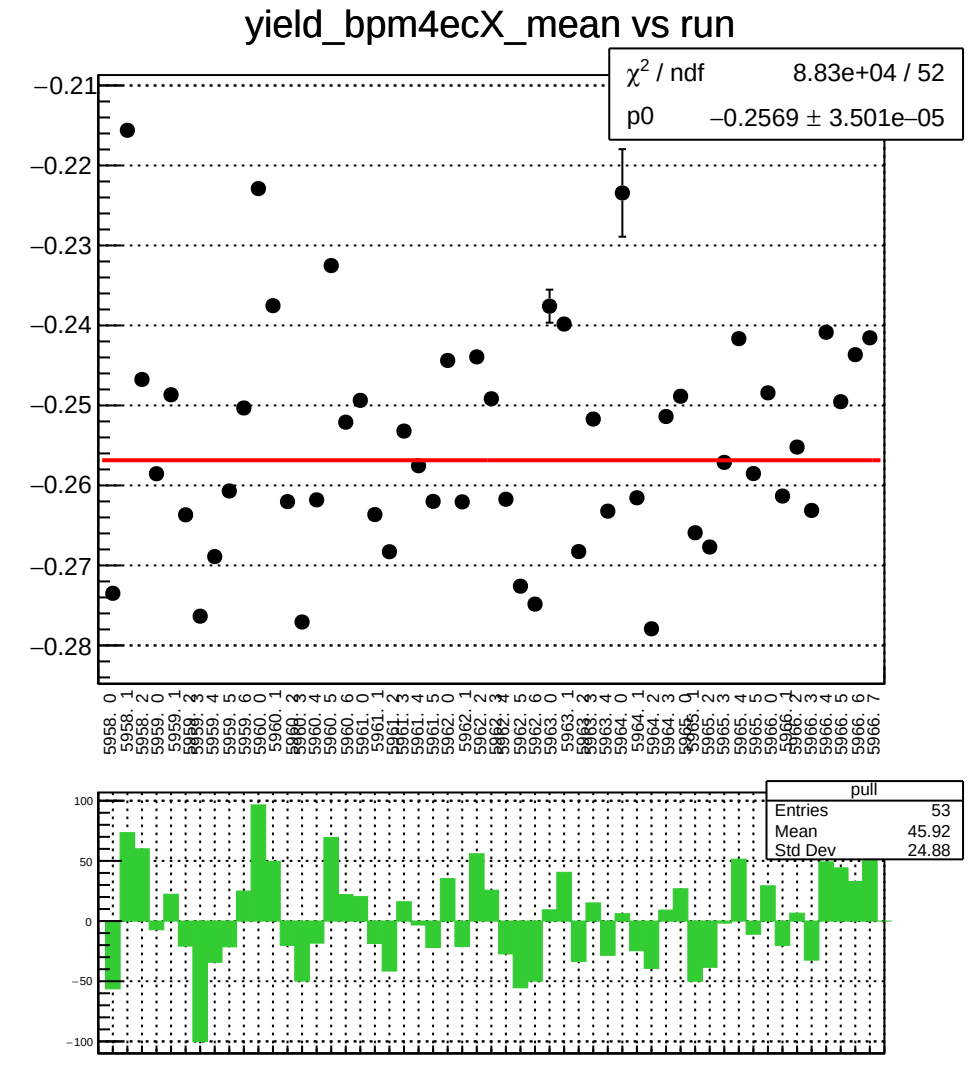

yield_bpm4acX_mean vs run
χ² / ndf 7.808e+04 / 52
p0 −0.9722 ± 3.678e−05
−0.93
−0.94
−0.95
−0.96
−0.97
−0.98
−0.99
pull
Entries 53
Mean 51.51
Std Dev 13.32
80
60
40
20
0
−20
−40
−60
−80

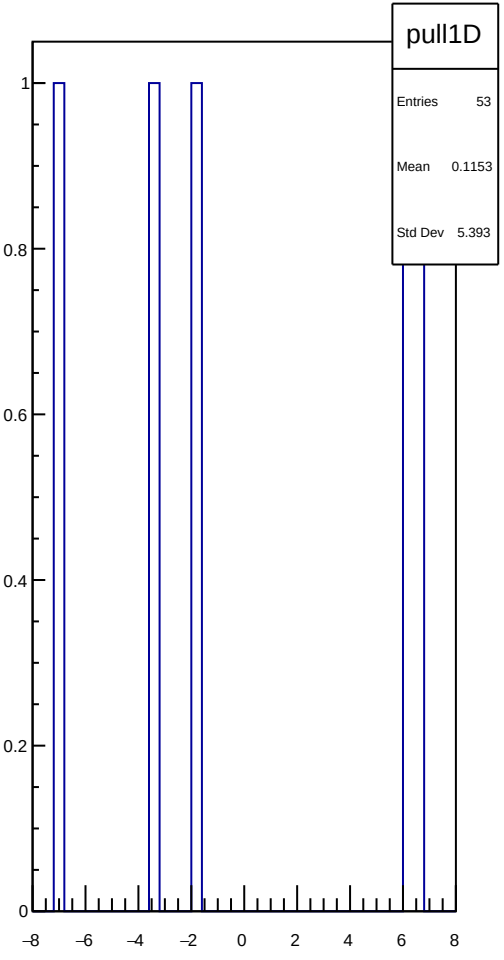

pull1D
Entries 53
Mean 5.041
Std Dev 3.125
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

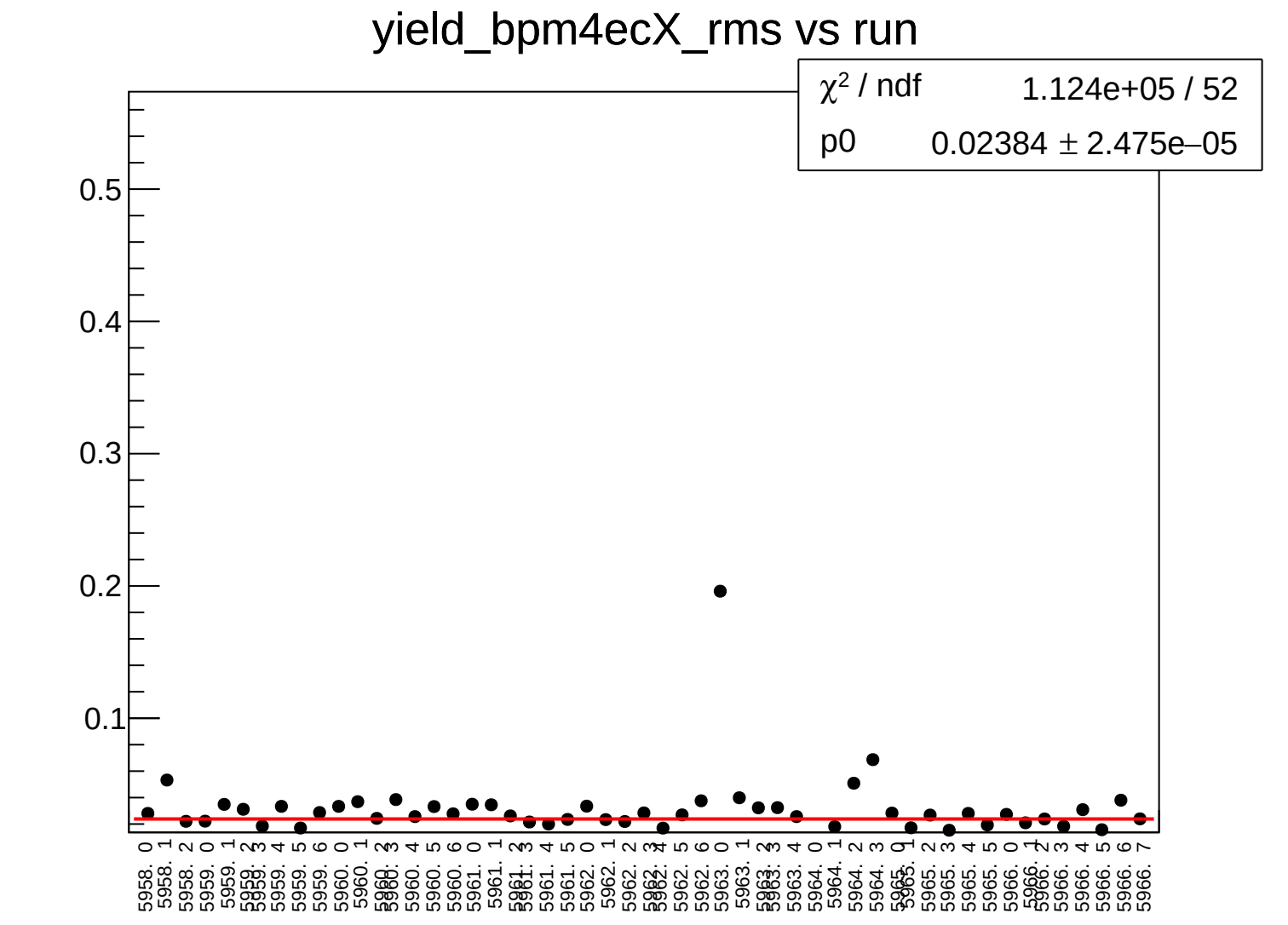

yield_bpm4acX_rms vs run
χ² / ndf 1.152e+05 / 52
p0 0.02501 ± 2.601e–05
0.6
0.5
0.4
0.3
0.2
0.1

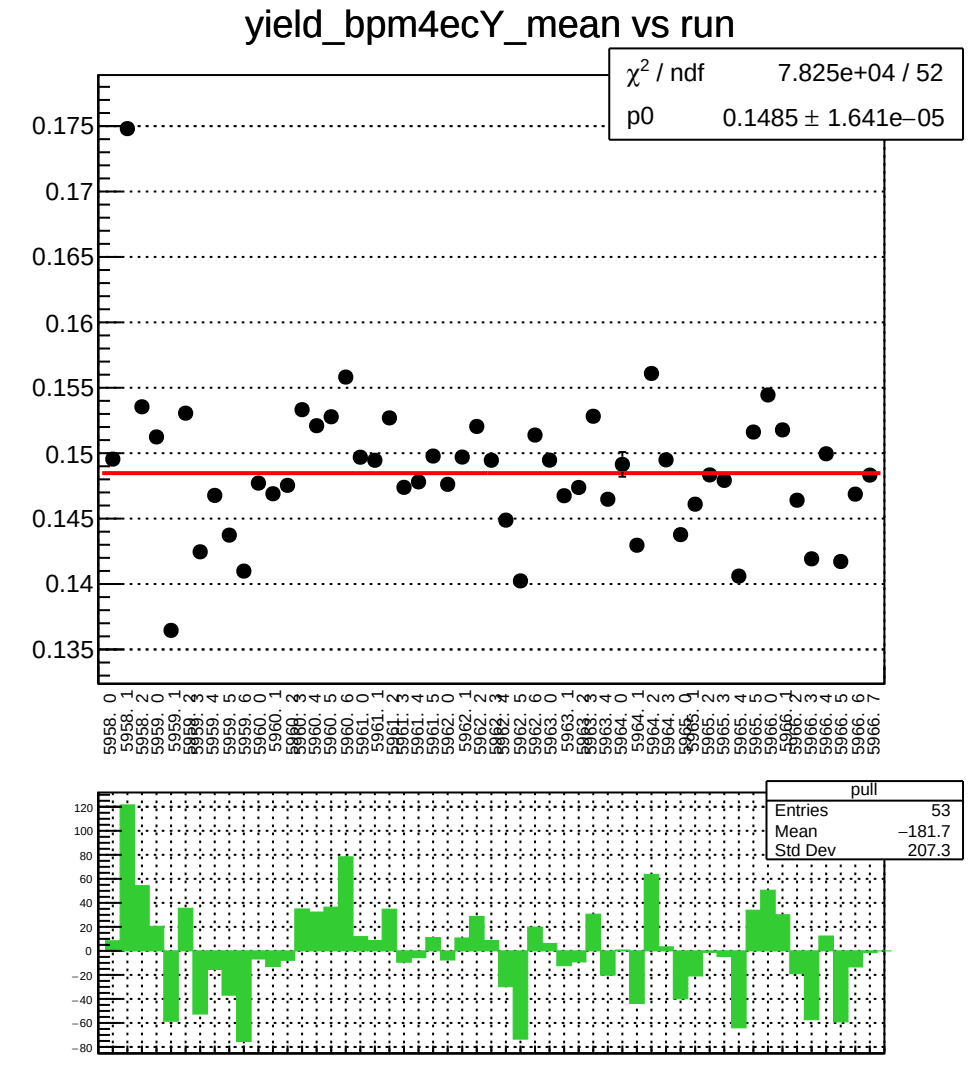

yield_bpm4acY_mean vs run
χ² / ndf 6.487e+04 / 52
p0 0.7357 ± 2.305e−05
0.76
0.75
0.74
0.73
0.72
pull
Entries 53
Mean −587.2
Std Dev 614.6
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 53
Mean −1.057
Std Dev 3.984
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

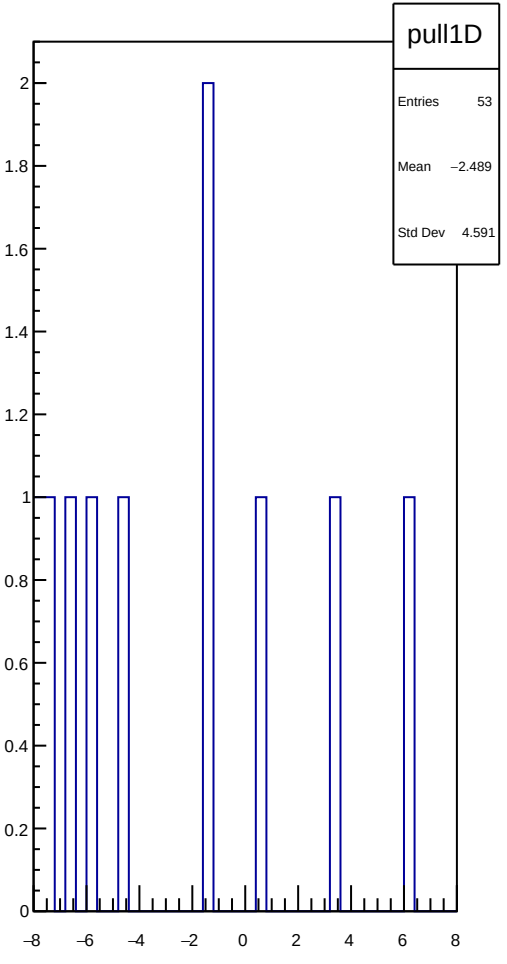

yield_bpm4acY_rms vs run
χ² / ndf 3.47e+04 / 52
p0 0.01634 ± 1.63e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

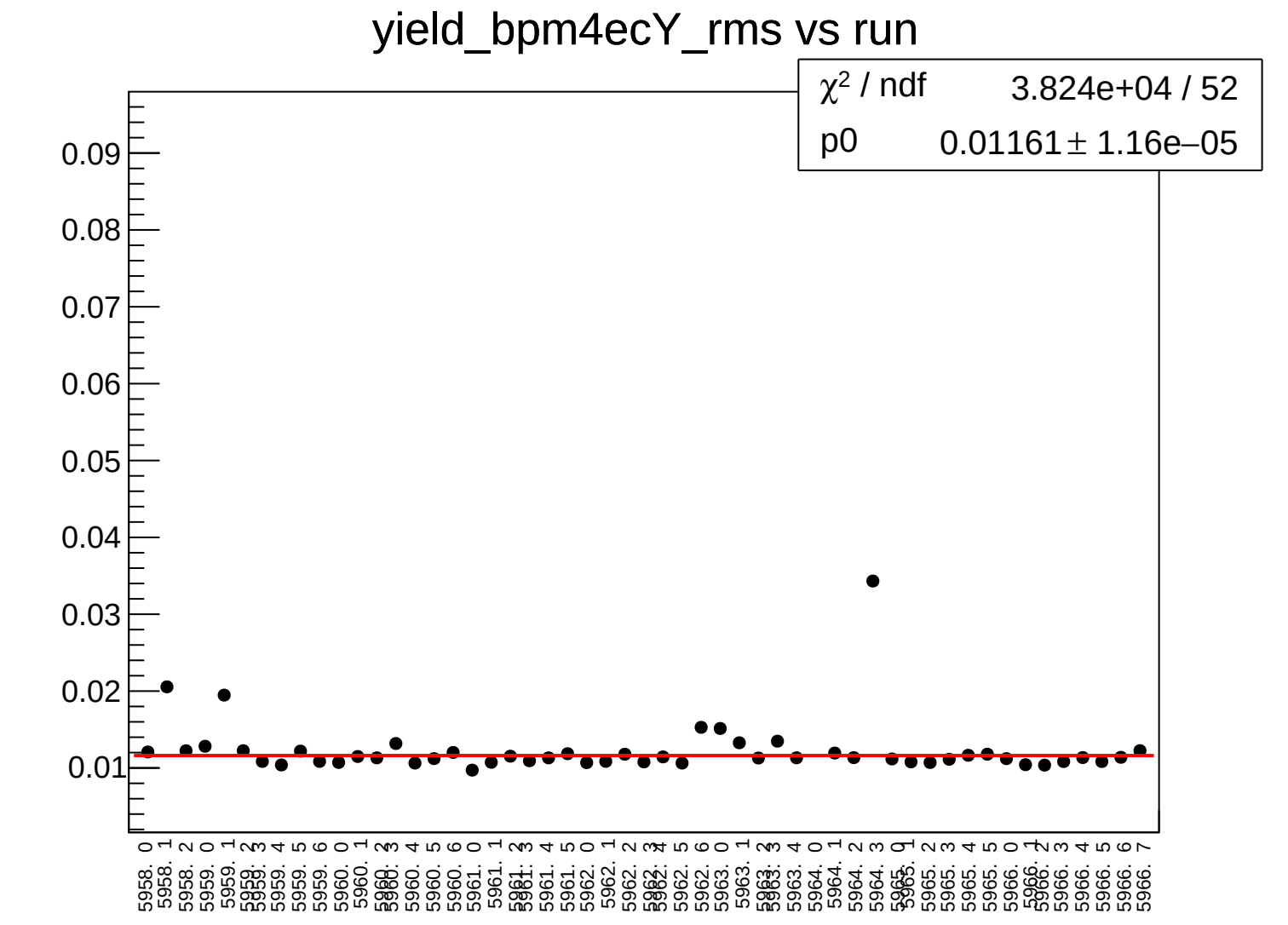

yield_bpm4ecX_mean vs run
χ² / ndf 8.83e+04 / 52
p0 −0.2569 ± 3.501e−05
pull
Entries 53
Mean 45.92
Std Dev 24.88

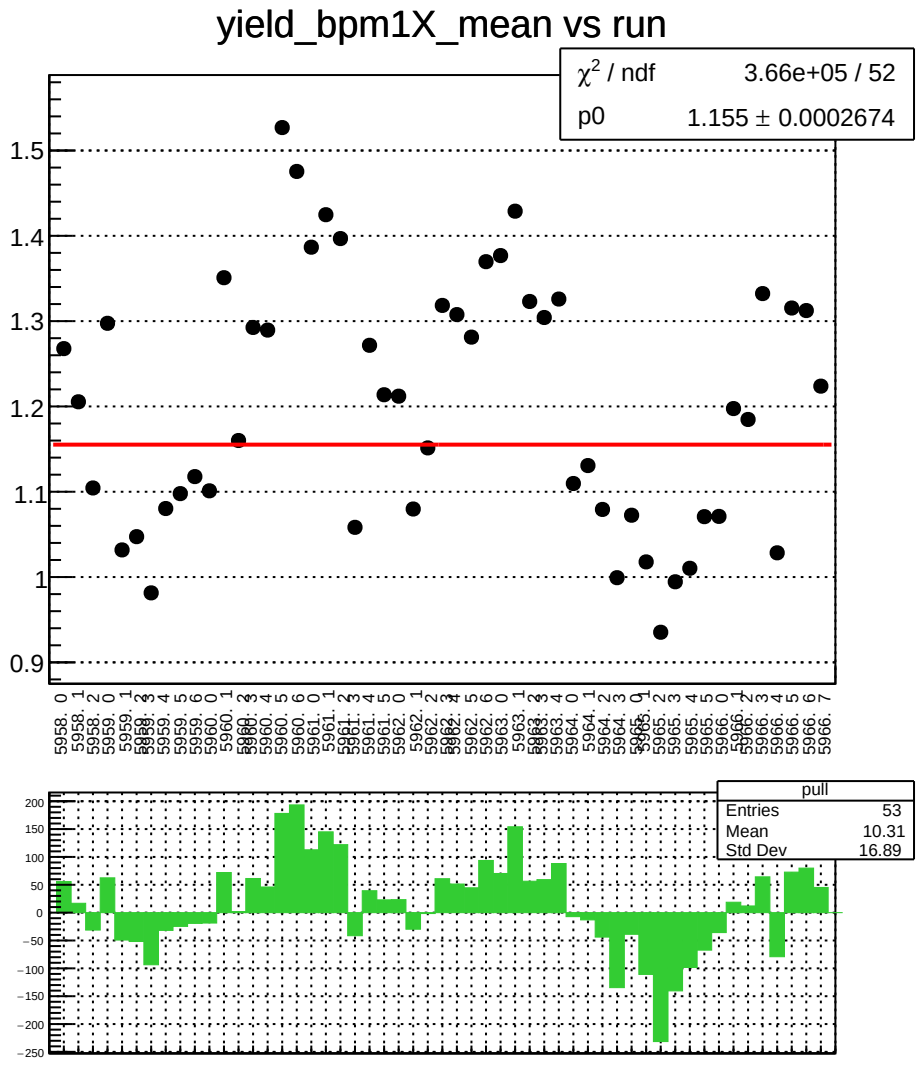

pull1D
Entries 53
Mean 0.1153
Std Dev 5.393

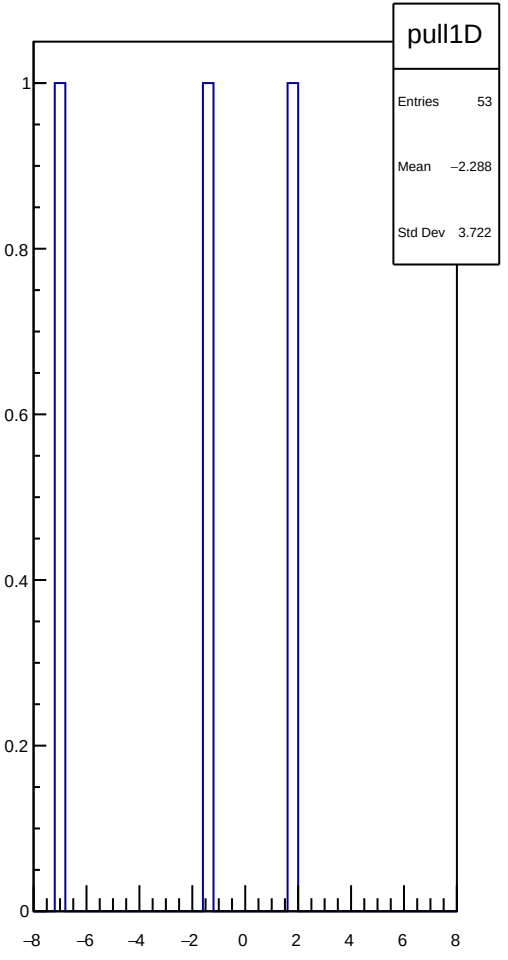

yield_bpm4ecX_rms vs run
χ² / ndf 1.124e+05 / 52
p0 0.02384 ± 2.475e−05
0.5
0.4
0.3
0.2
0.1

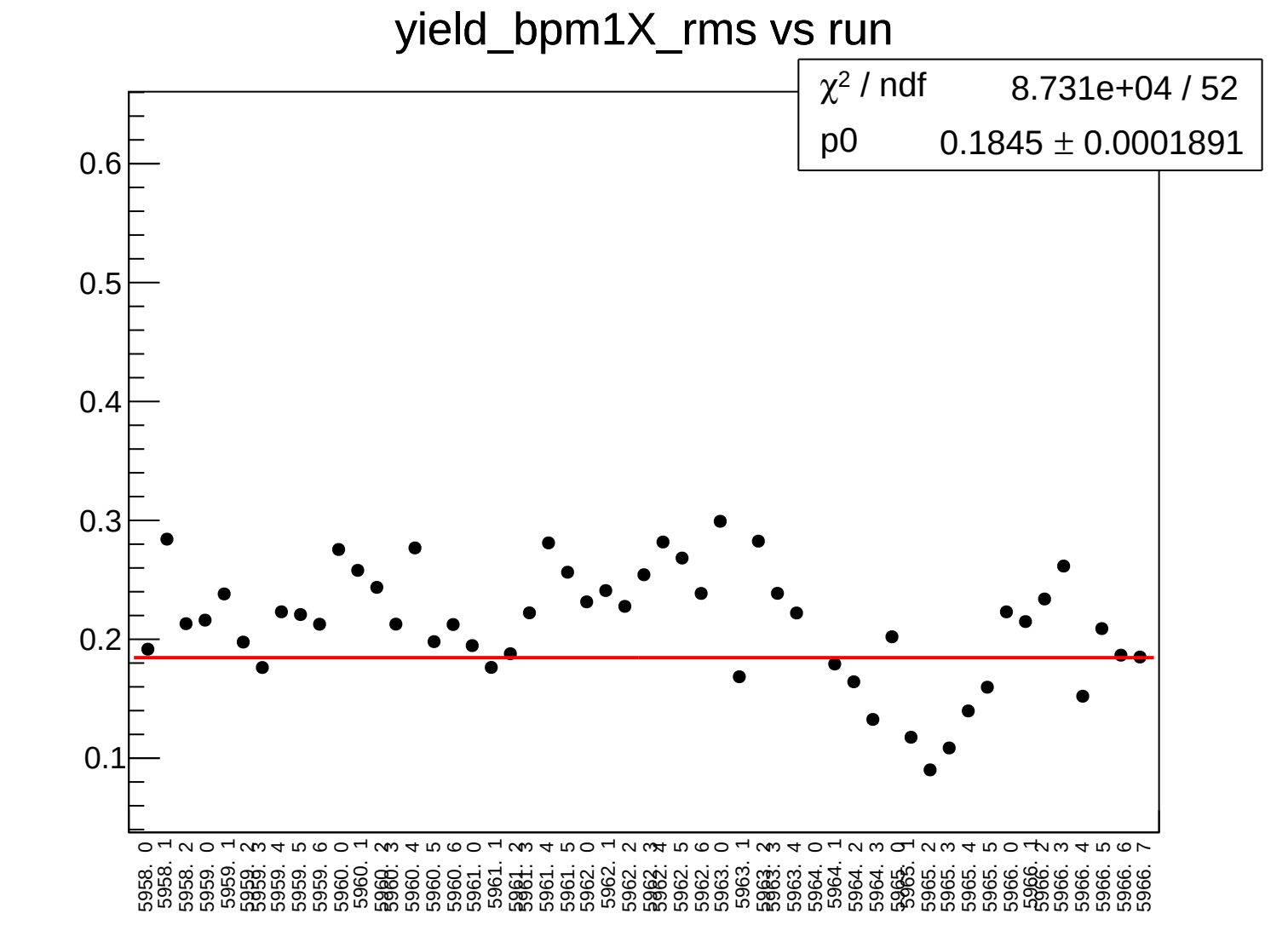

yield_bpm4ecY_mean vs run
χ² / ndf 7.825e+04 / 52
p0 0.1485 ± 1.641e−05
pull
Entries 53
Mean −181.7
Std Dev 207.3

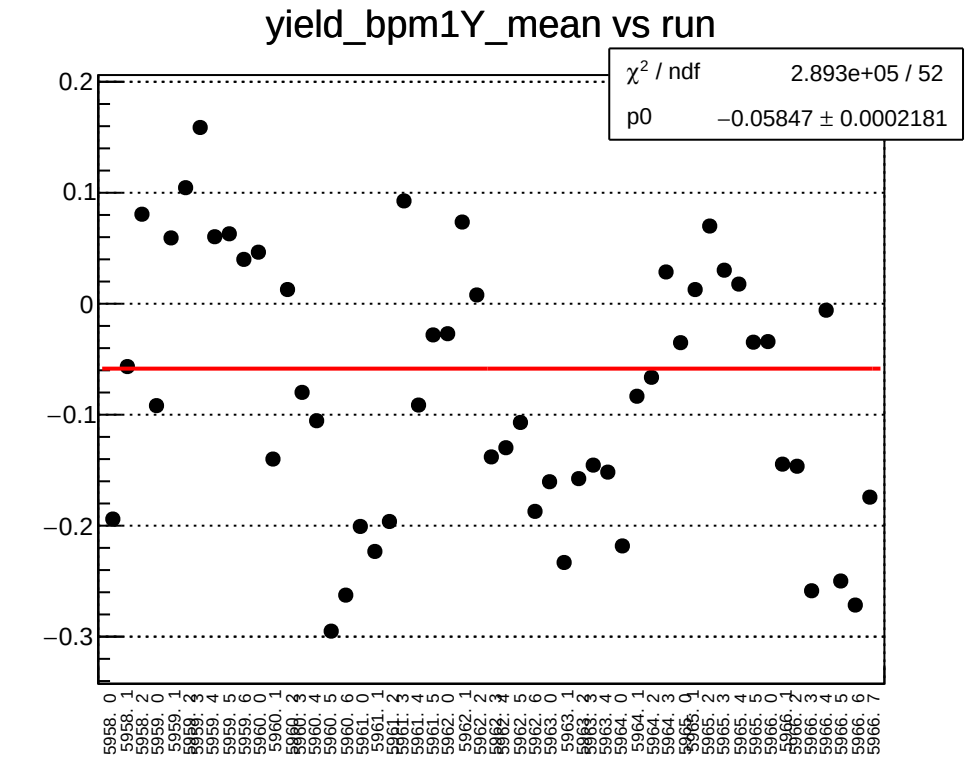

pull1D
Entries 53
Mean −2.489
Std Dev 4.591

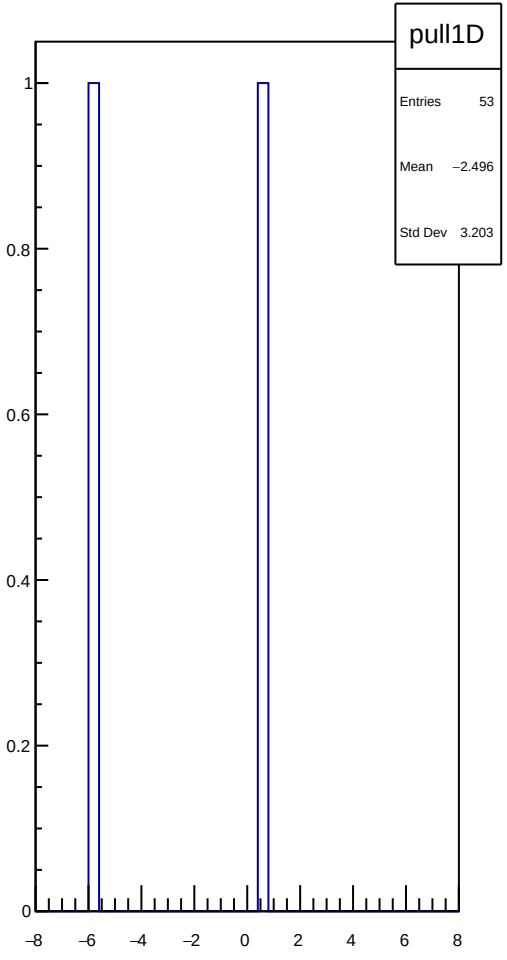

yield_bpm4ecY_rms vs run
χ² / ndf 3.824e+04 / 52
p0 0.01161 ± 1.16e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

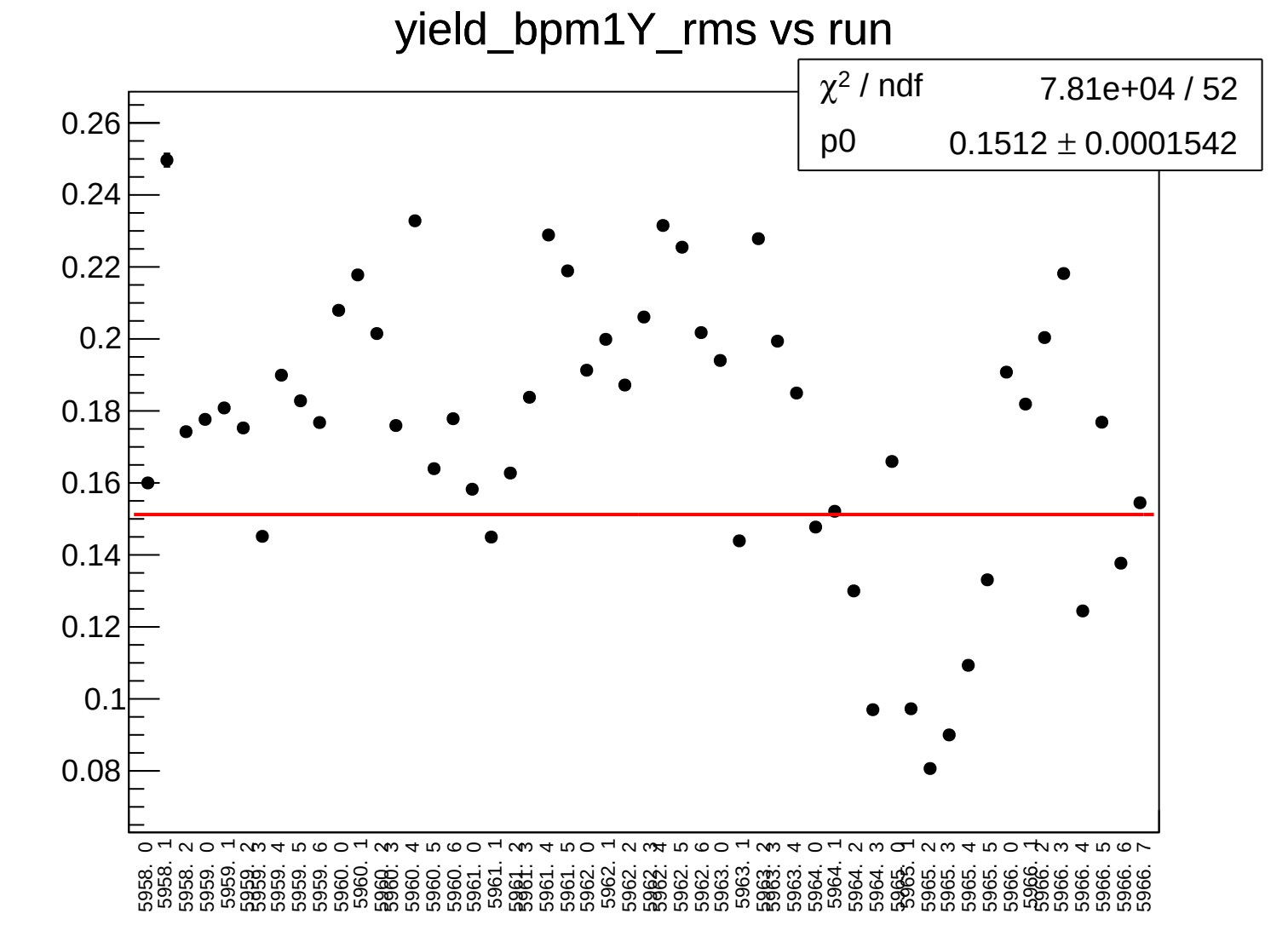

yield_bpm1X_mean vs run
χ² / ndf 3.66e+05 / 52
p0 1.155 ± 0.0002674
pull
Entries 53
Mean 10.31
Std Dev 16.89

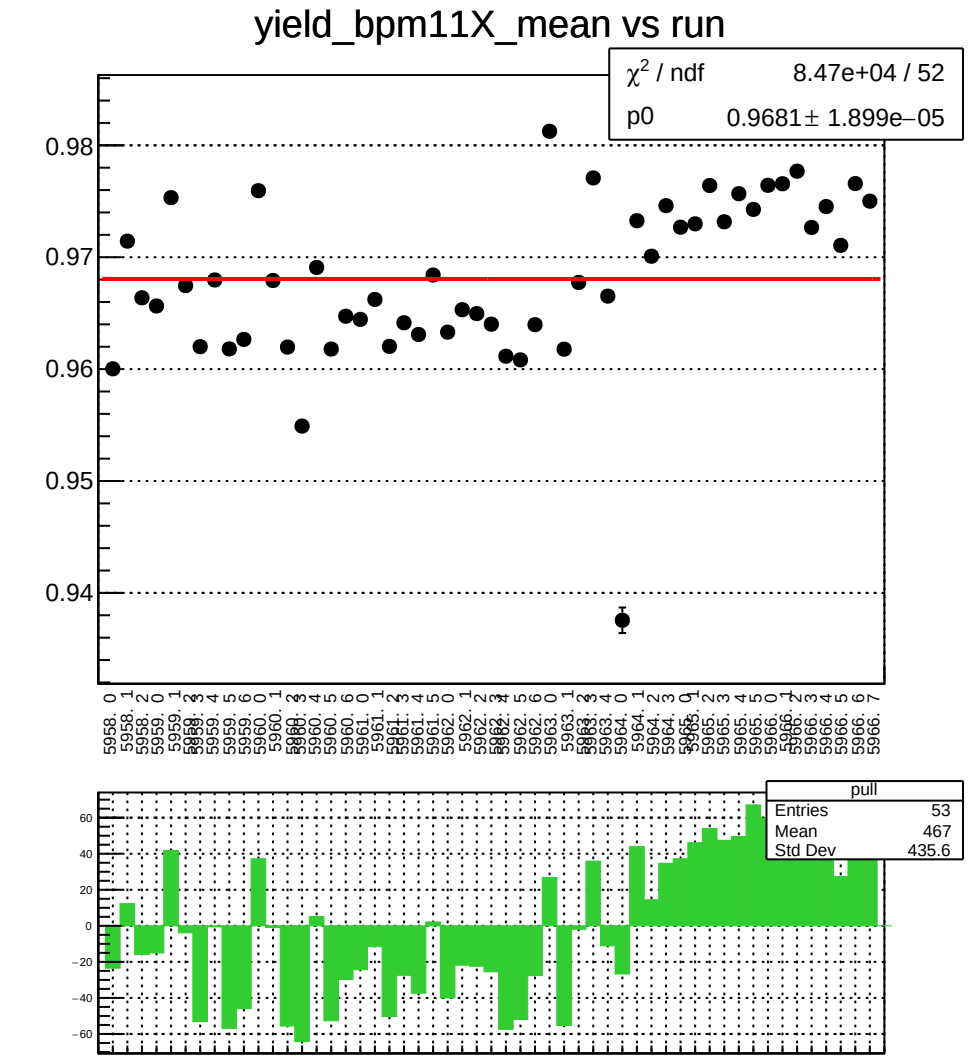

pull1D
Entries 53
Mean −2.288
Std Dev 3.722

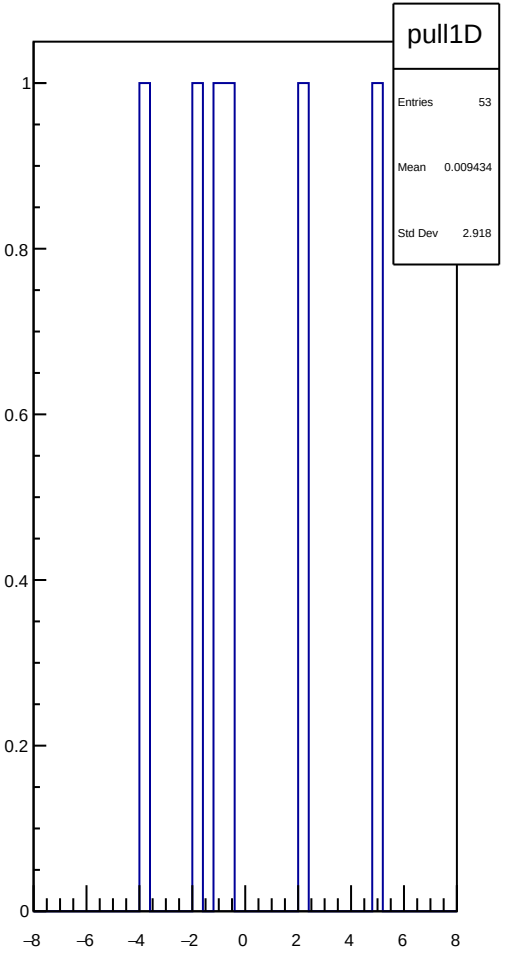

yield_bpm1X_rms vs run
χ² / ndf 8.731e+04 / 52
p0 0.1845 ± 0.0001891
0.6
0.5
0.4
0.3
0.2
0.1

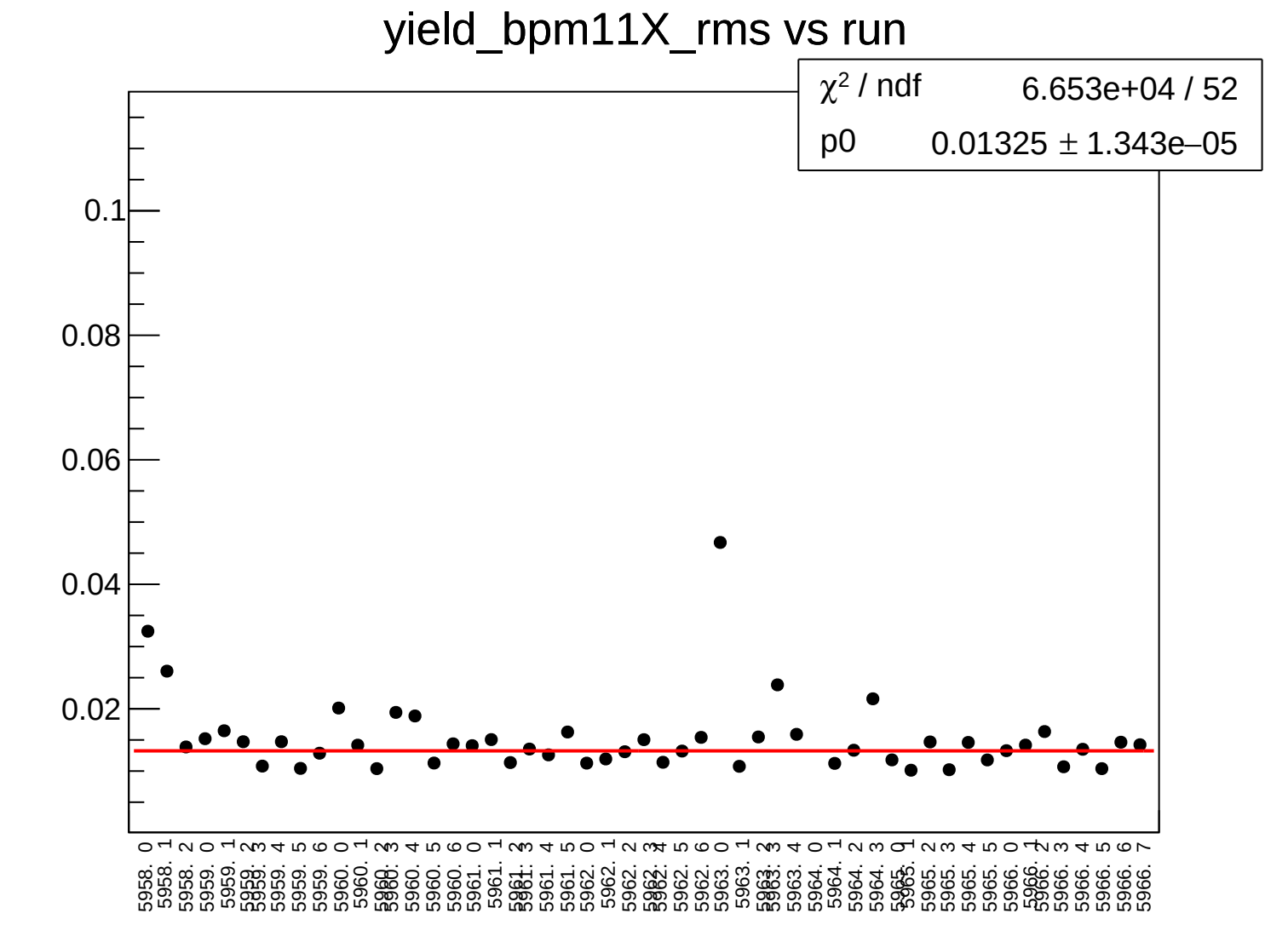

yield_bpm1Y_mean vs run
χ² / ndf 2.893e+05 / 52
p0 −0.05847 ± 0.0002181
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 53
Mean 56.33
Std Dev 28.52
150
100
50
0
−50
−100
−150

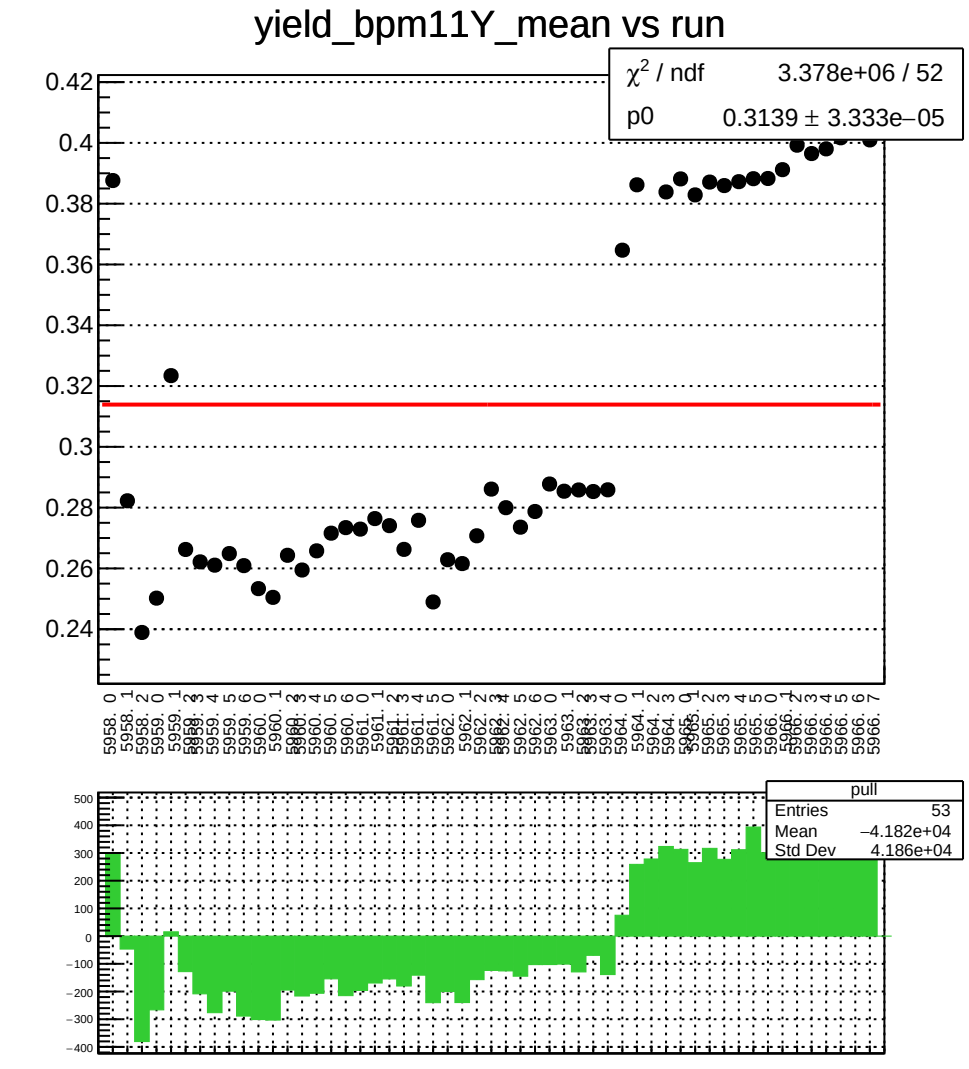

pull1D
Entries 53
Mean −2.496
Std Dev 3.203
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

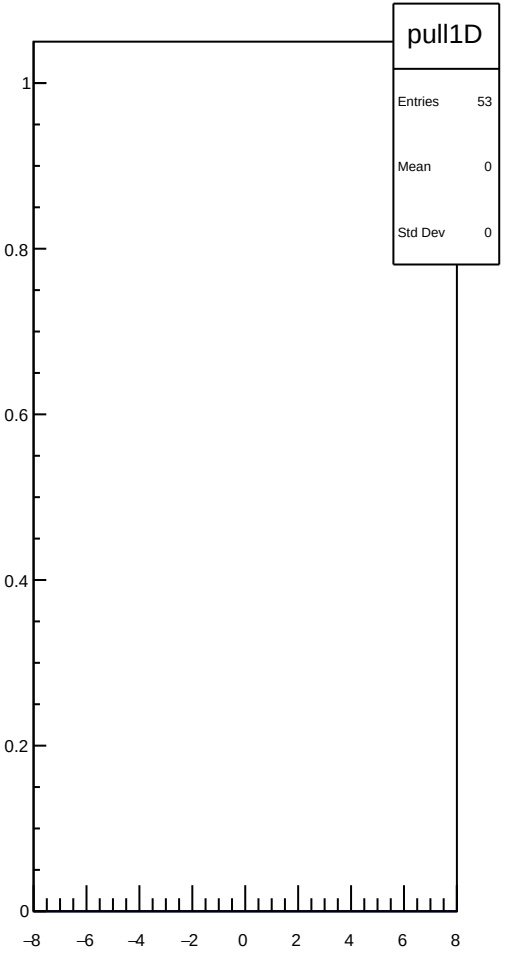

yield_bpm1Y_rms vs run
χ² / ndf 7.81e+04 / 52
p0 0.1512 ± 0.0001542
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

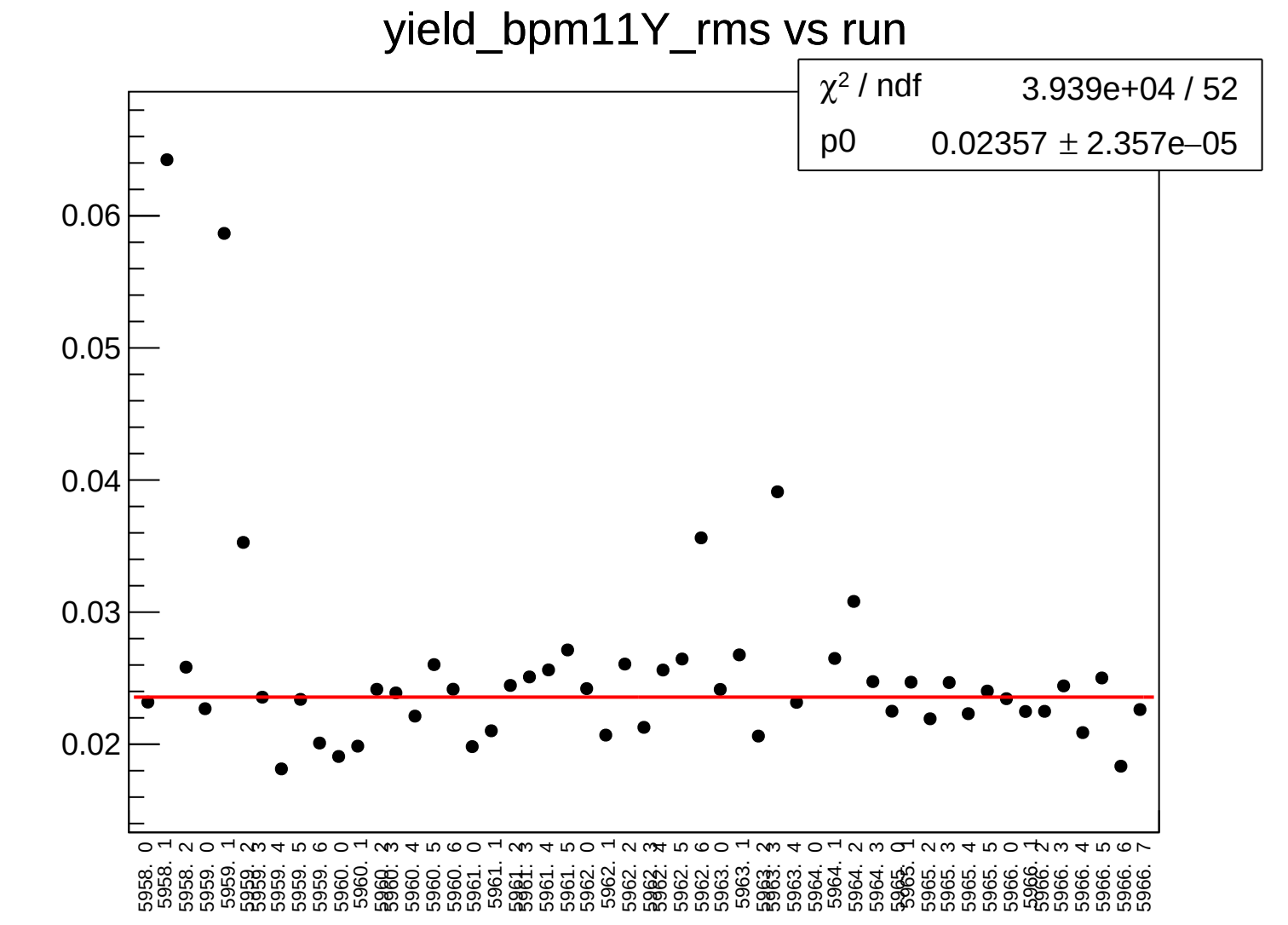

yield_bpm11X_mean vs run
χ² / ndf 8.47e+04 / 52
p0 0.9681 ± 1.899e−05
0.98
0.97
0.96
0.95
0.94
pull
Entries 53
Mean 467
Std Dev 435.6
60
40
20
0
−20
−40
−60

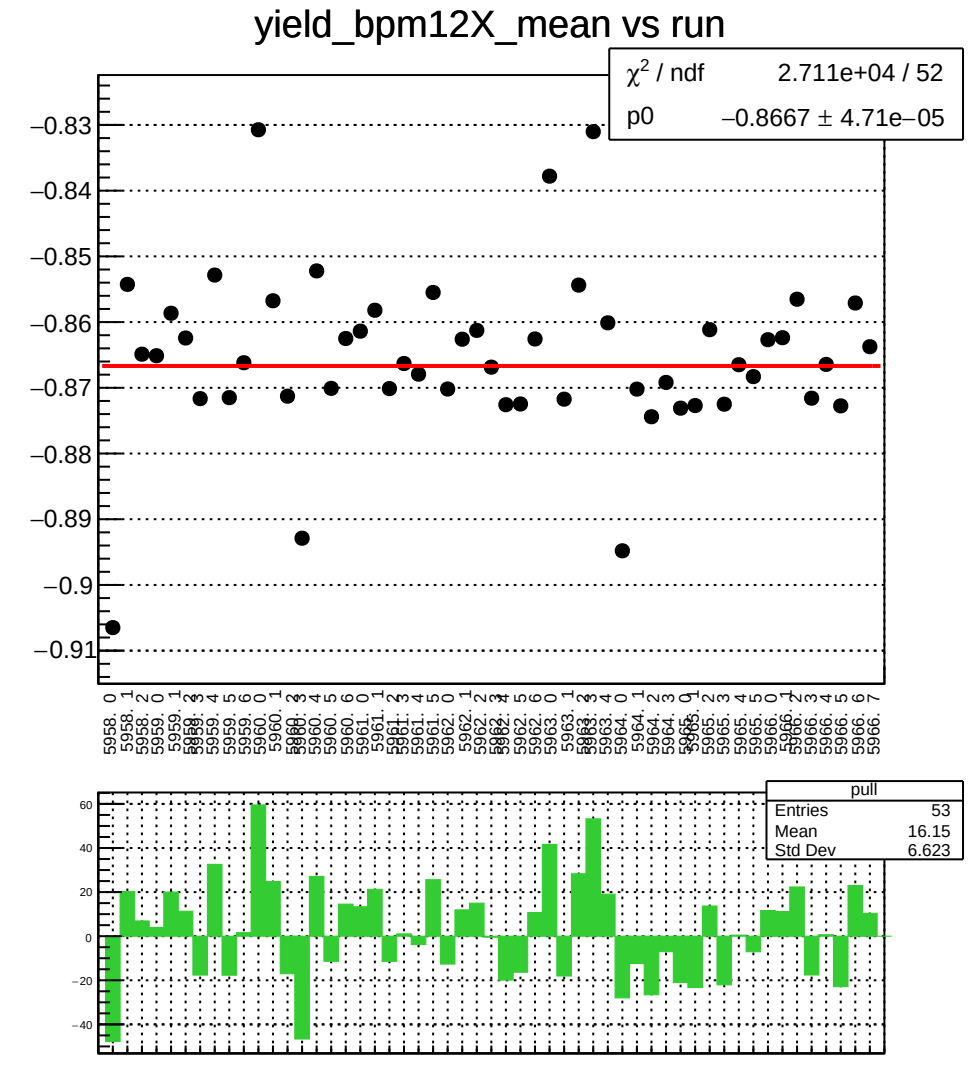

pull1D
Entries 53
Mean 0.009434
Std Dev 2.918
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

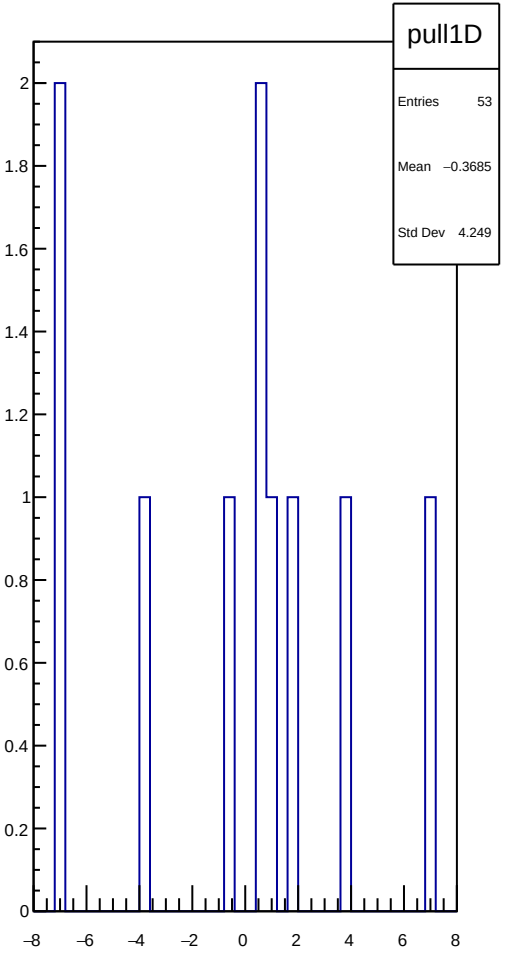

yield_bpm11X_rms vs run
χ² / ndf 6.653e+04 / 52
p0 0.01325 ± 1.343e−05
0.1
0.08
0.06
0.04
0.02

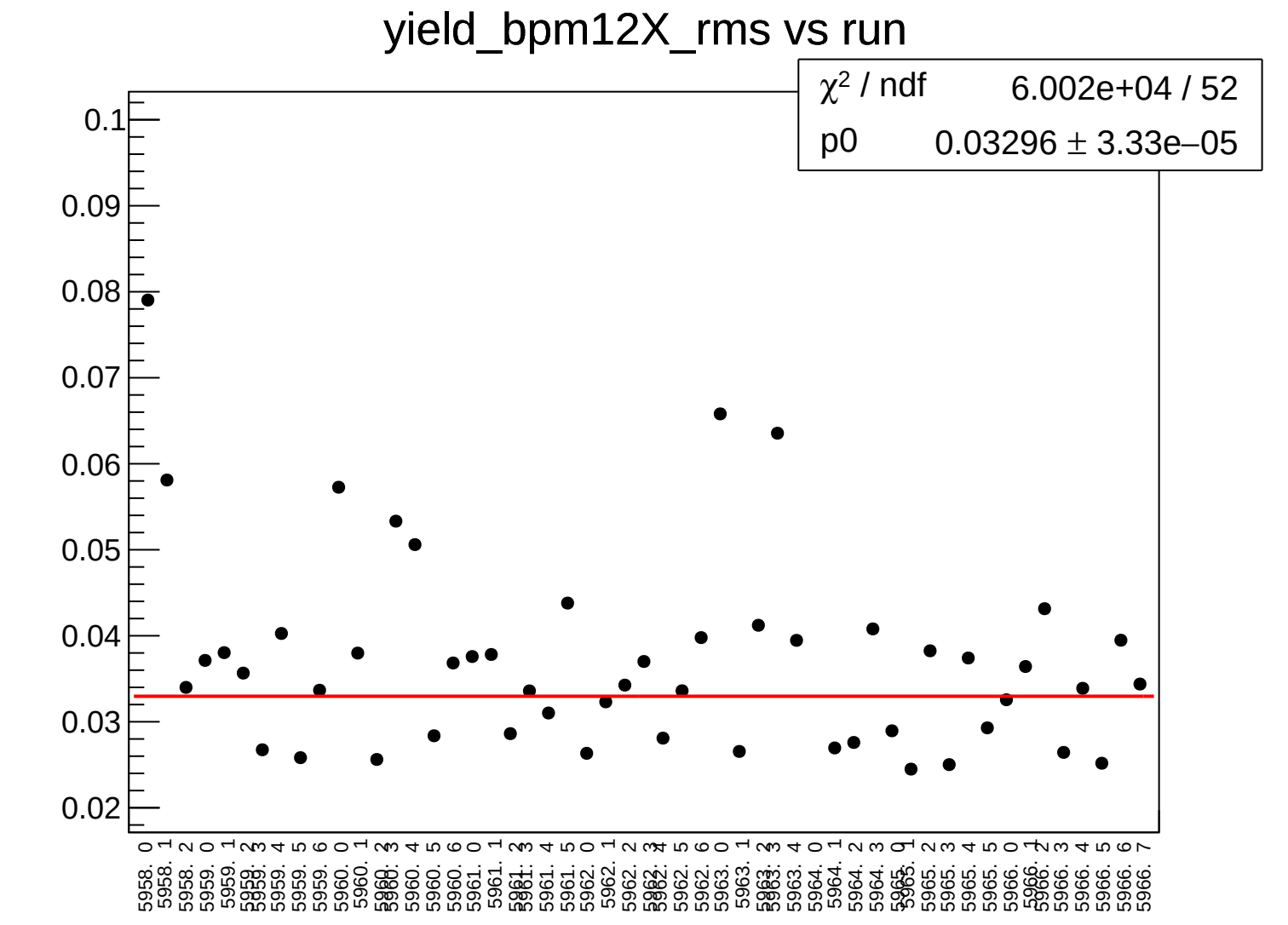

yield_bpm11Y_mean vs run
χ² / ndf 3.378e+06 / 52
p0 0.3139 ± 3.333e−05
pull
Entries 53
Mean −4.182e+04
Std Dev 4.186e+04

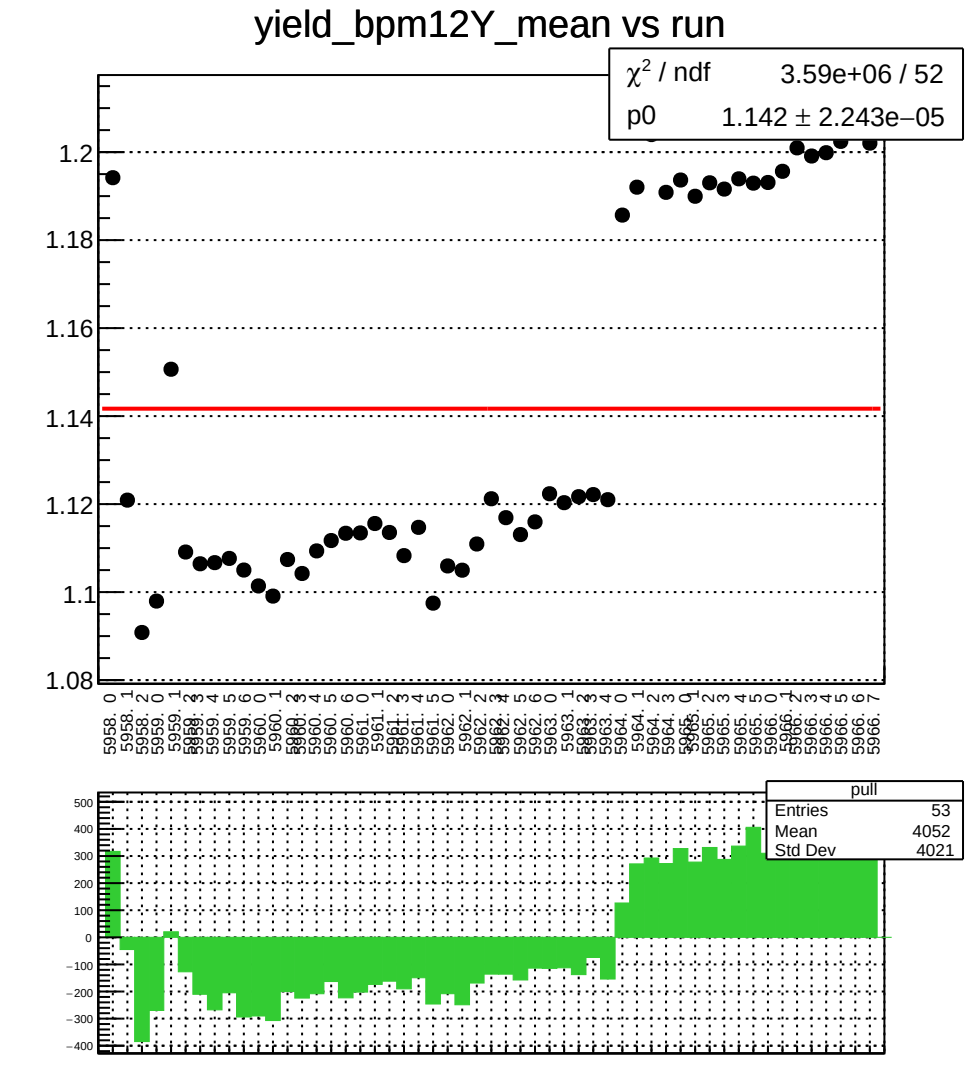

pull1D
Entries 53
Mean 0
Std Dev 0

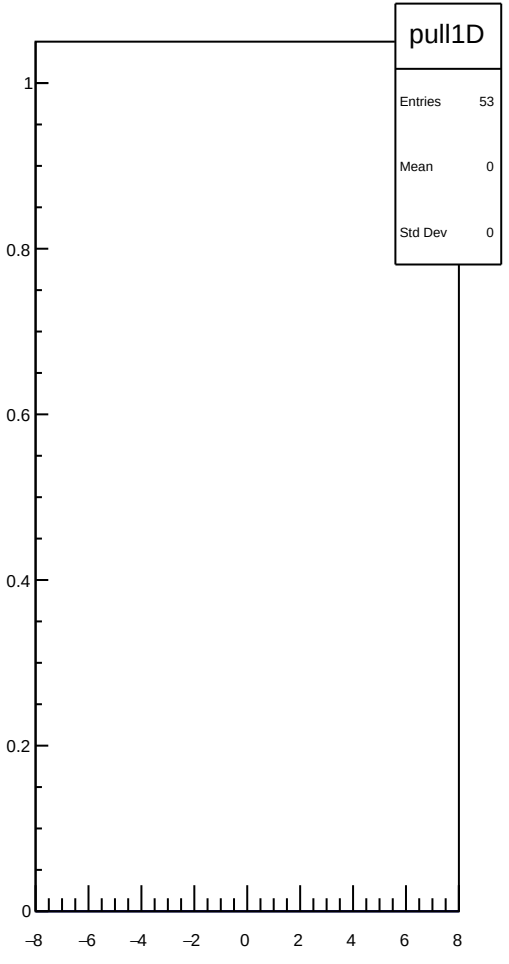

yield_bpm11Y_rms vs run
χ² / ndf 3.939e+04 / 52
p0 0.02357 ± 2.357e–05
0.06
0.05
0.04
0.03
0.02

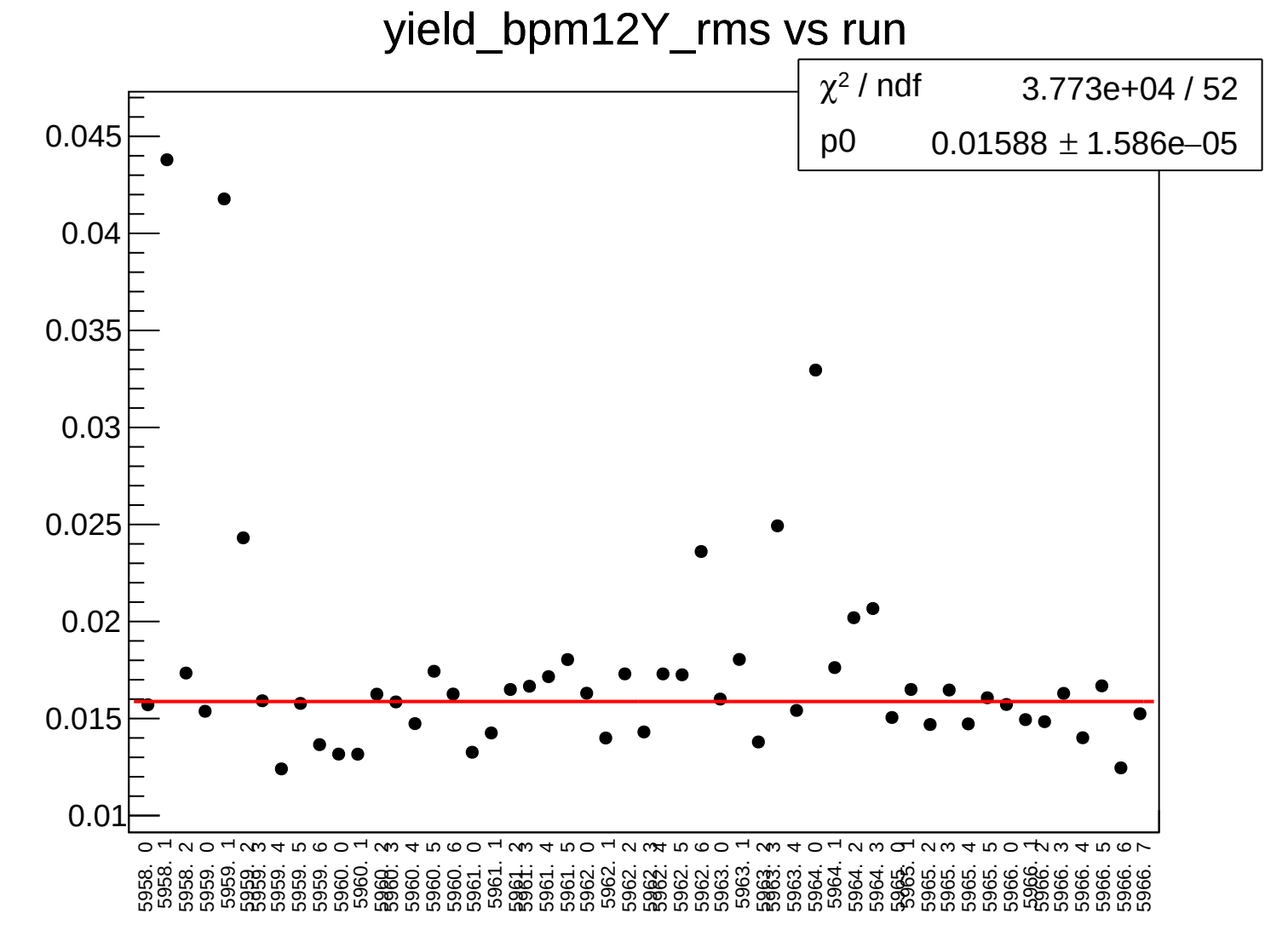

yield_bpm12X_mean vs run
χ² / ndf 2.711e+04 / 52
p0 −0.8667 ± 4.71e−05
pull
Entries 53
Mean 16.15
Std Dev 6.623

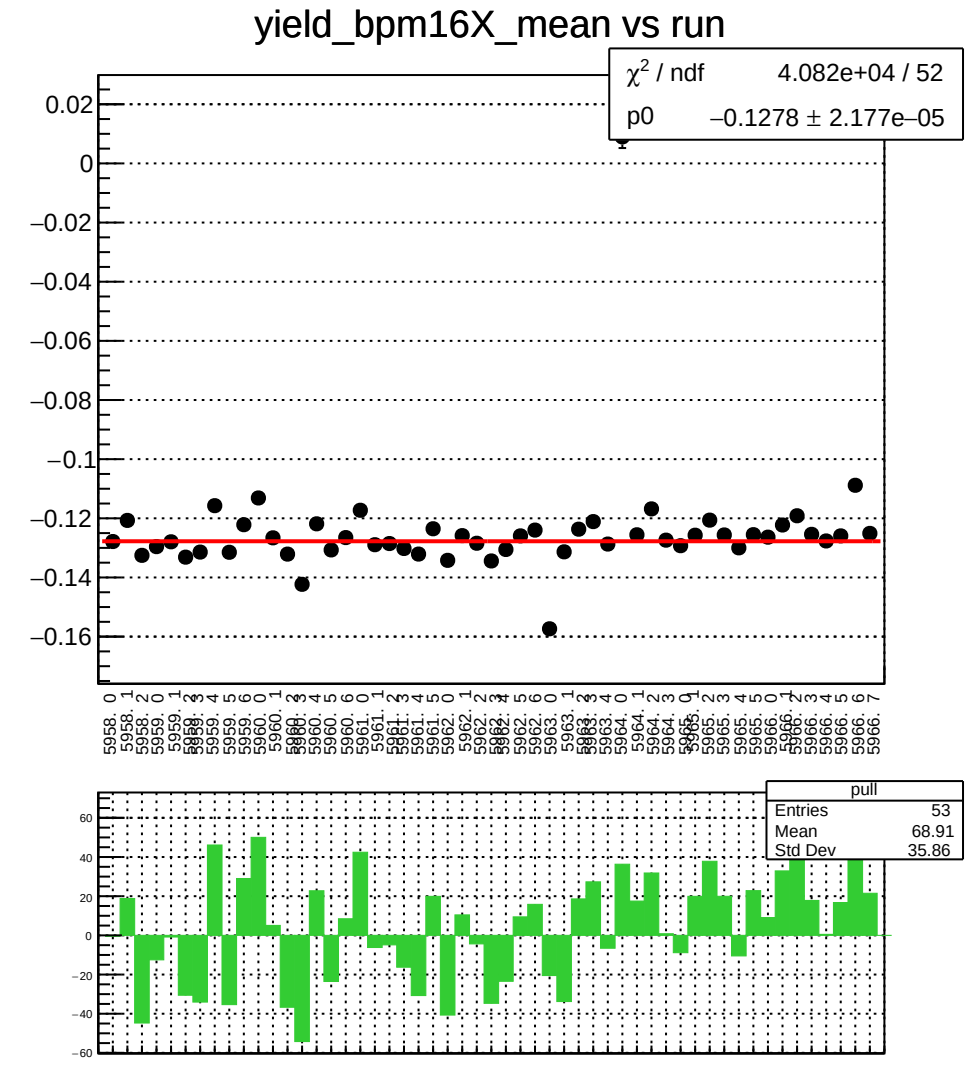

pull1D
Entries 53
Mean −0.3685
Std Dev 4.249

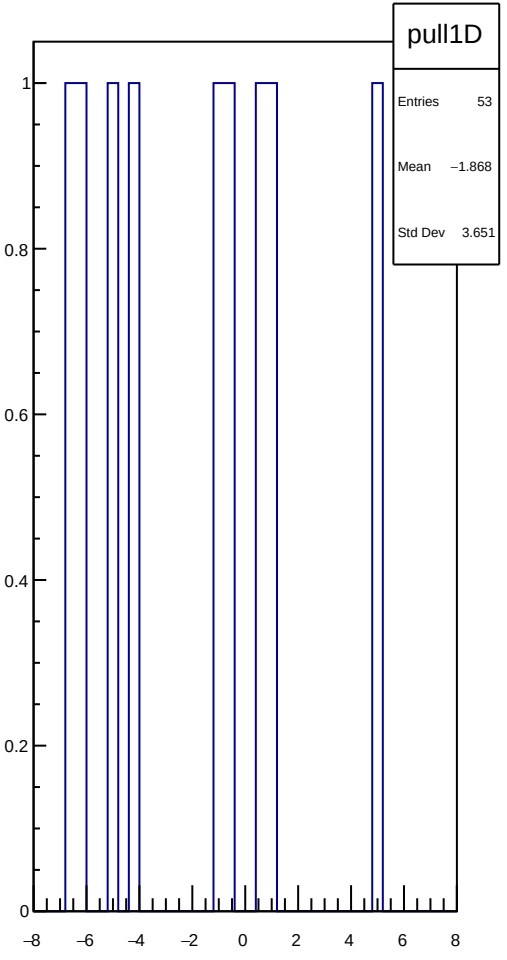

yield_bpm12X_rms vs run
χ² / ndf 6.002e+04 / 52
p0 0.03296 ± 3.33e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

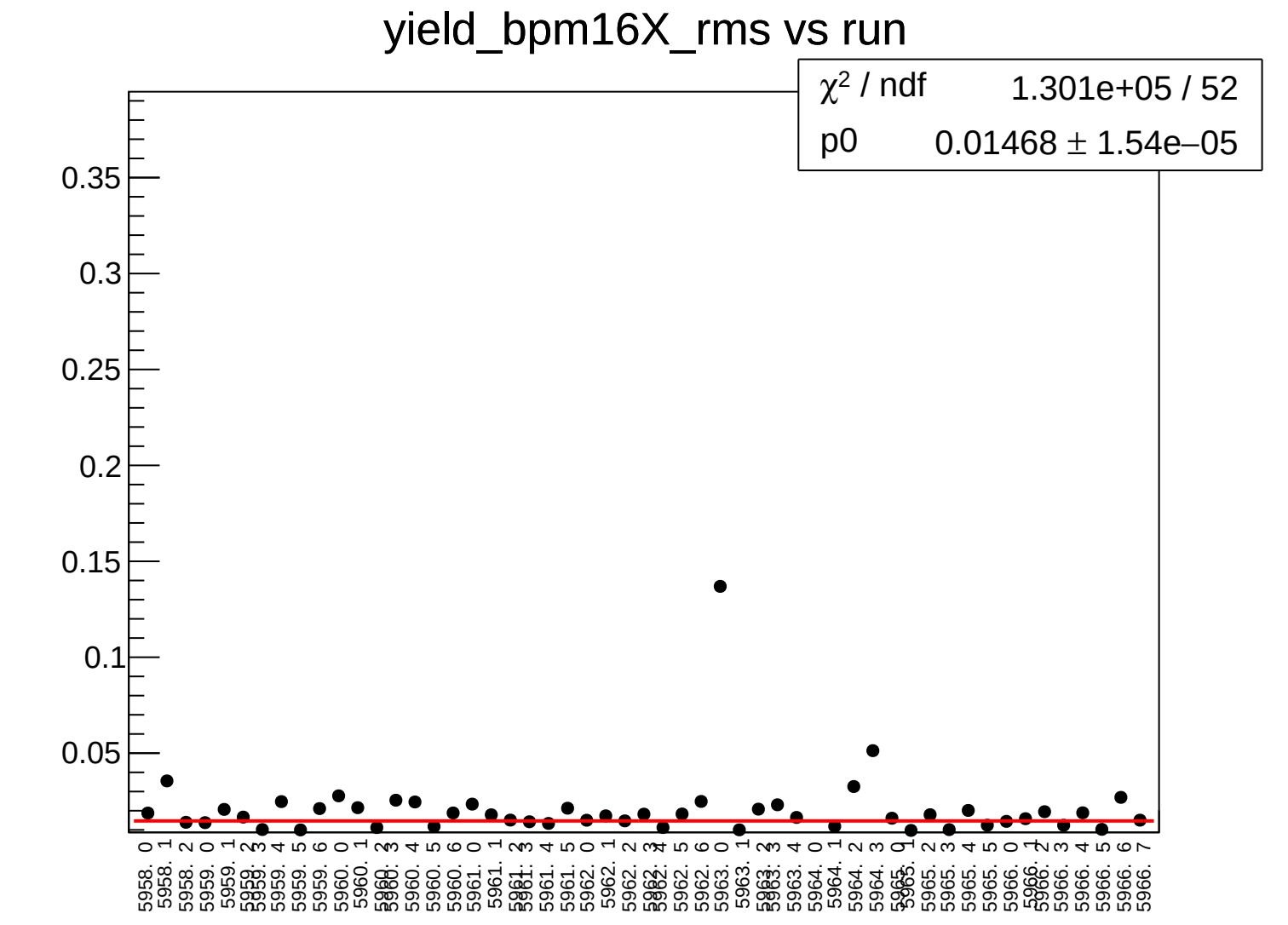

yield_bpm12Y_mean vs run
χ² / ndf 3.59e+06 / 52
p0 1.142 ± 2.243e−05
1.2
1.18
1.16
1.14
1.12
1.1
1.08
pull
Entries 53
Mean 4052
Std Dev 4021
500
400
300
200
100
0
−100
−200
−300
−400

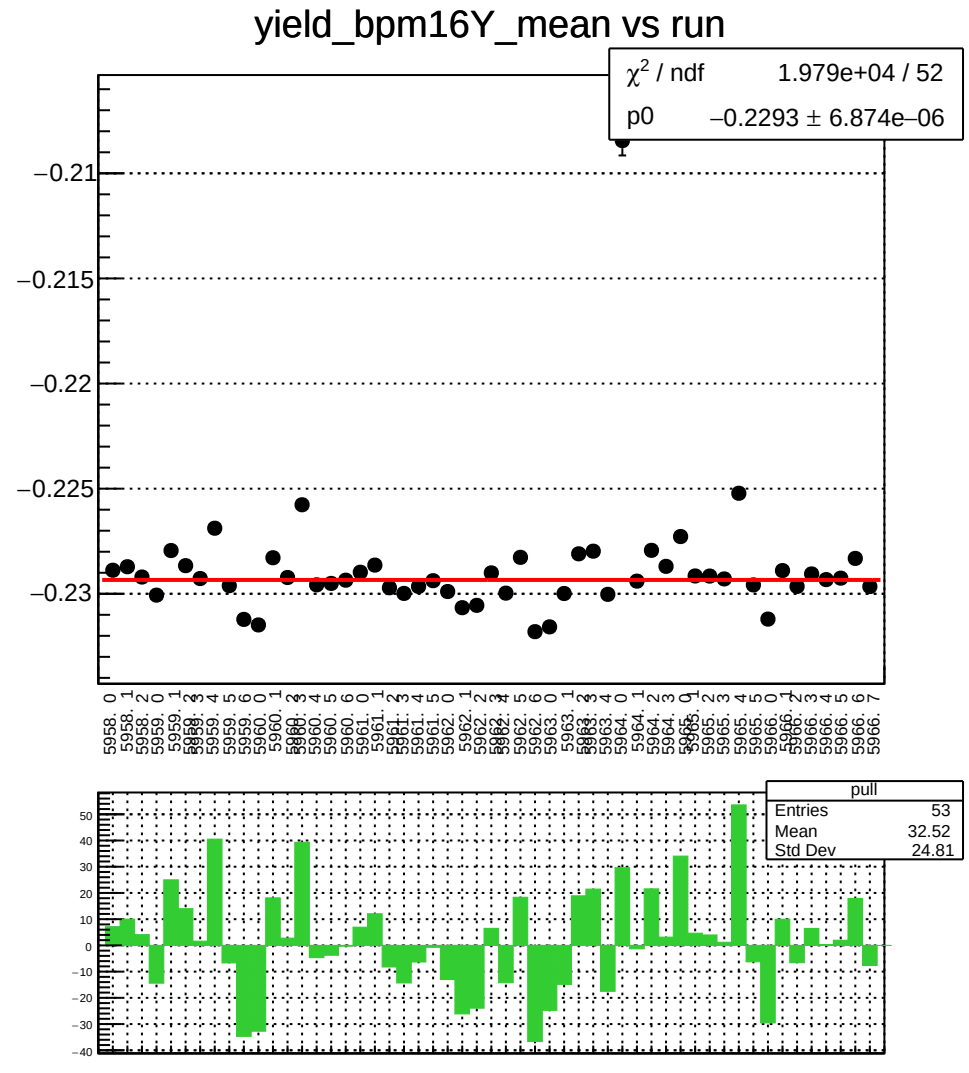

pull1D
Entries 53
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

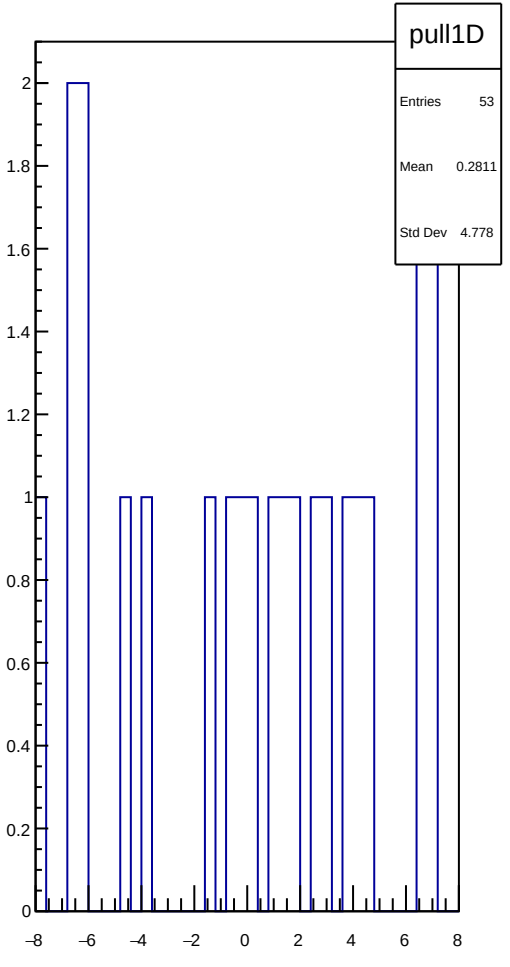

yield_bpm12Y_rms vs run
χ² / ndf 3.773e+04 / 52
p0 0.01588 ± 1.586e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

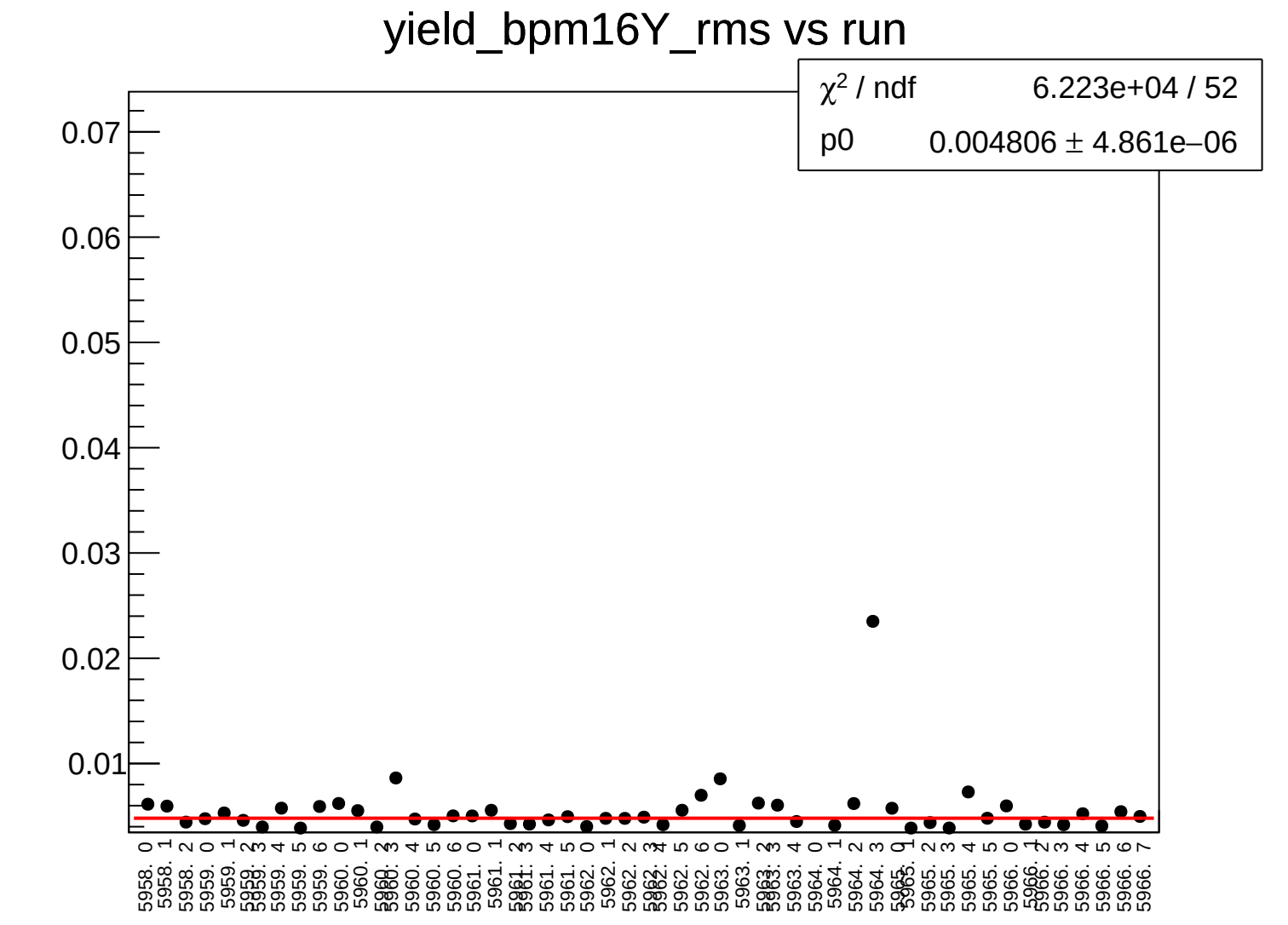

yield_bpm16X_mean vs run
χ² / ndf 4.082e+04 / 52
p0 −0.1278 ± 2.177e−05
pull
Entries 53
Mean 68.91
Std Dev 35.86

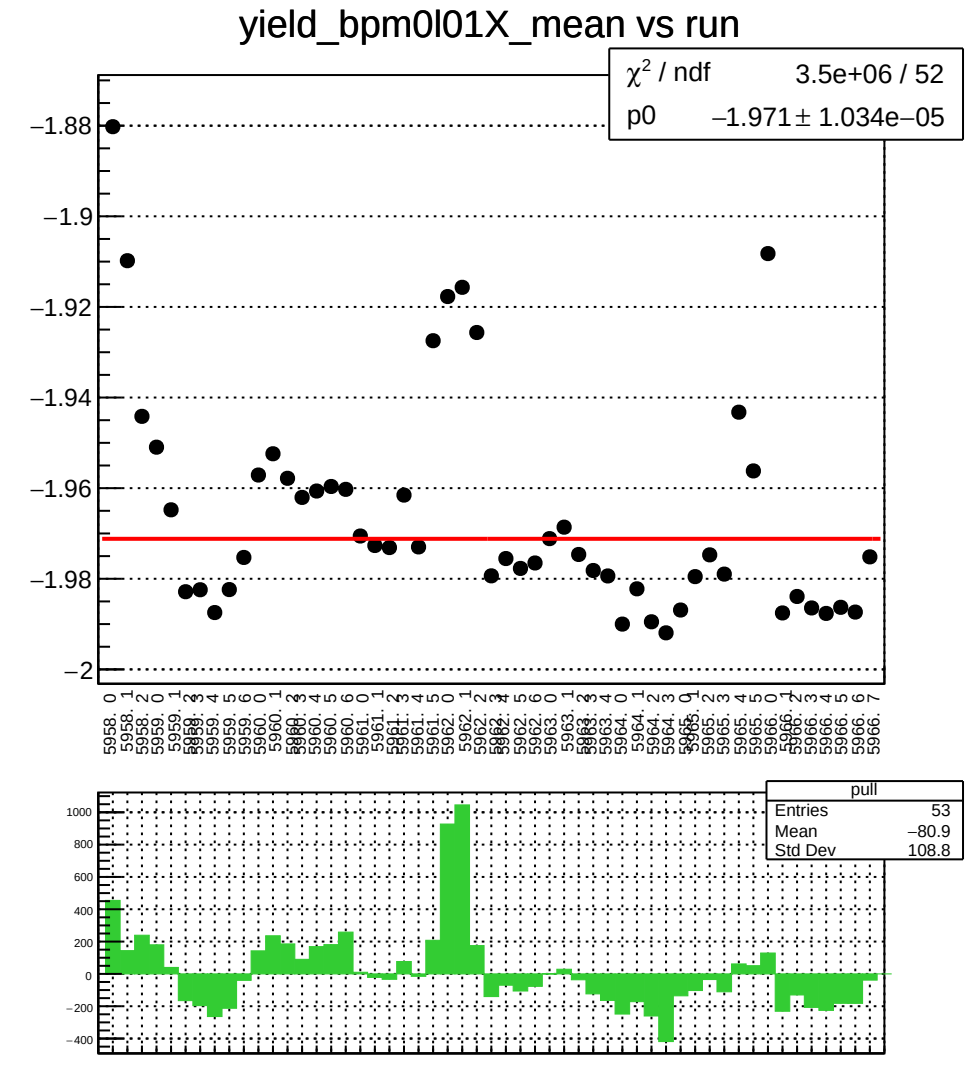

pull1D
Entries 53
Mean −1.868
Std Dev 3.651

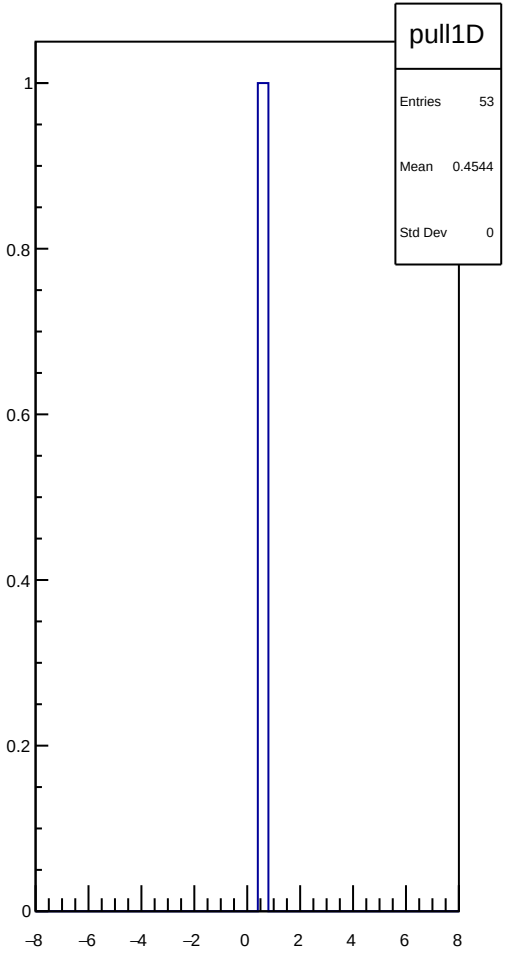

yield_bpm16X_rms vs run
χ² / ndf 1.301e+05 / 52
p0 0.01468 ± 1.54e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

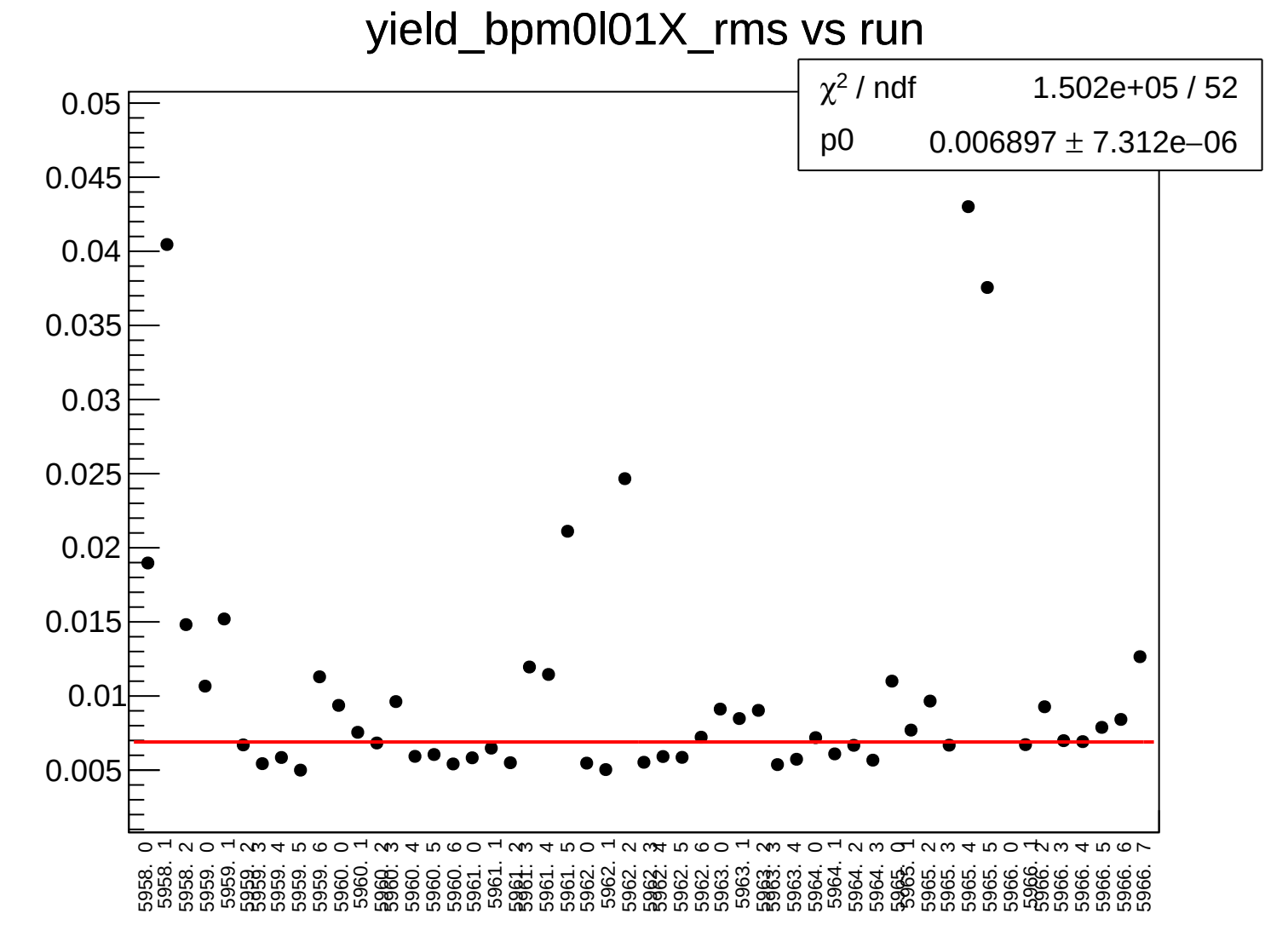

yield_bpm16Y_mean vs run
χ² / ndf 1.979e+04 / 52
p0 −0.2293 ± 6.874e−06
−0.21
−0.215
−0.22
−0.225
−0.23
pull
Entries 53
Mean 32.52
Std Dev 24.81
50
40
30
20
10
0
−10
−20
−30
−40

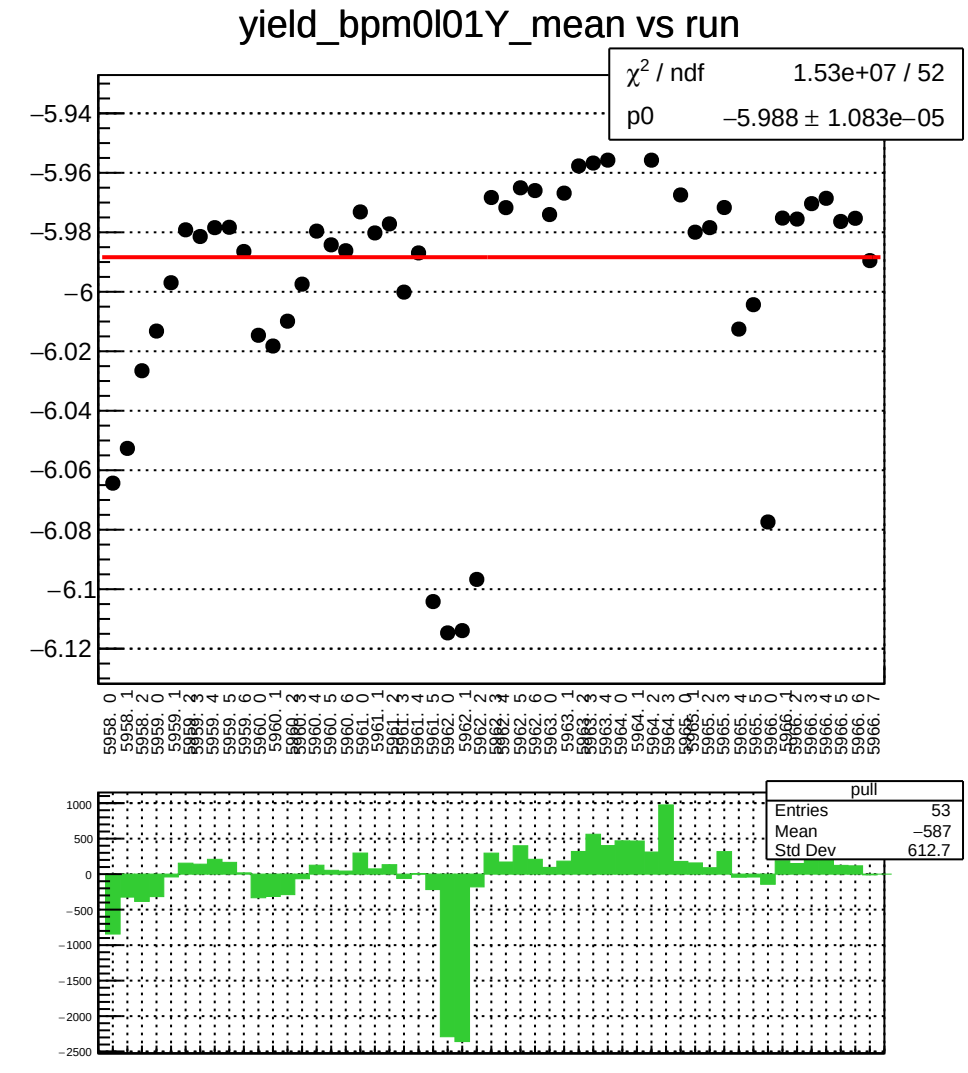

pull1D
Entries 53
Mean 0.2811
Std Dev 4.778
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

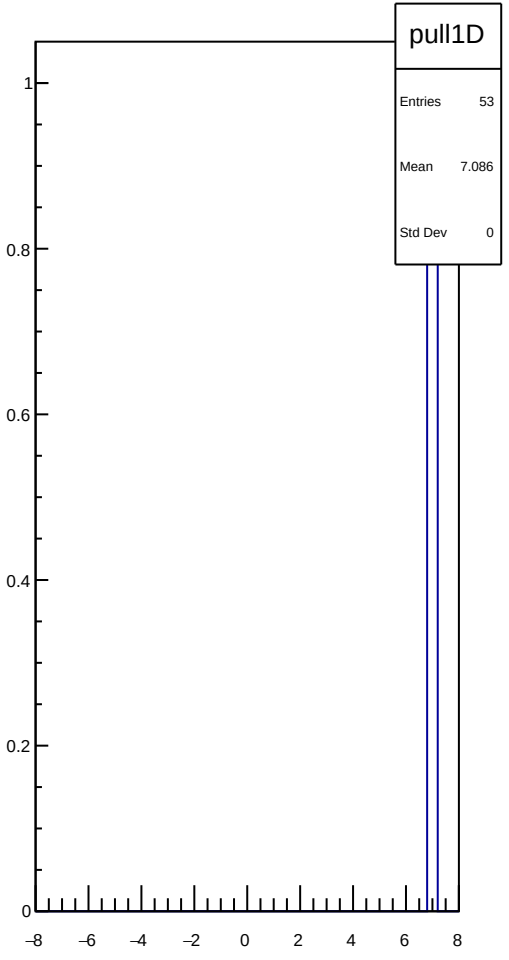

yield_bpm16Y_rms vs run
χ² / ndf 6.223e+04 / 52
p0 0.004806 ± 4.861e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

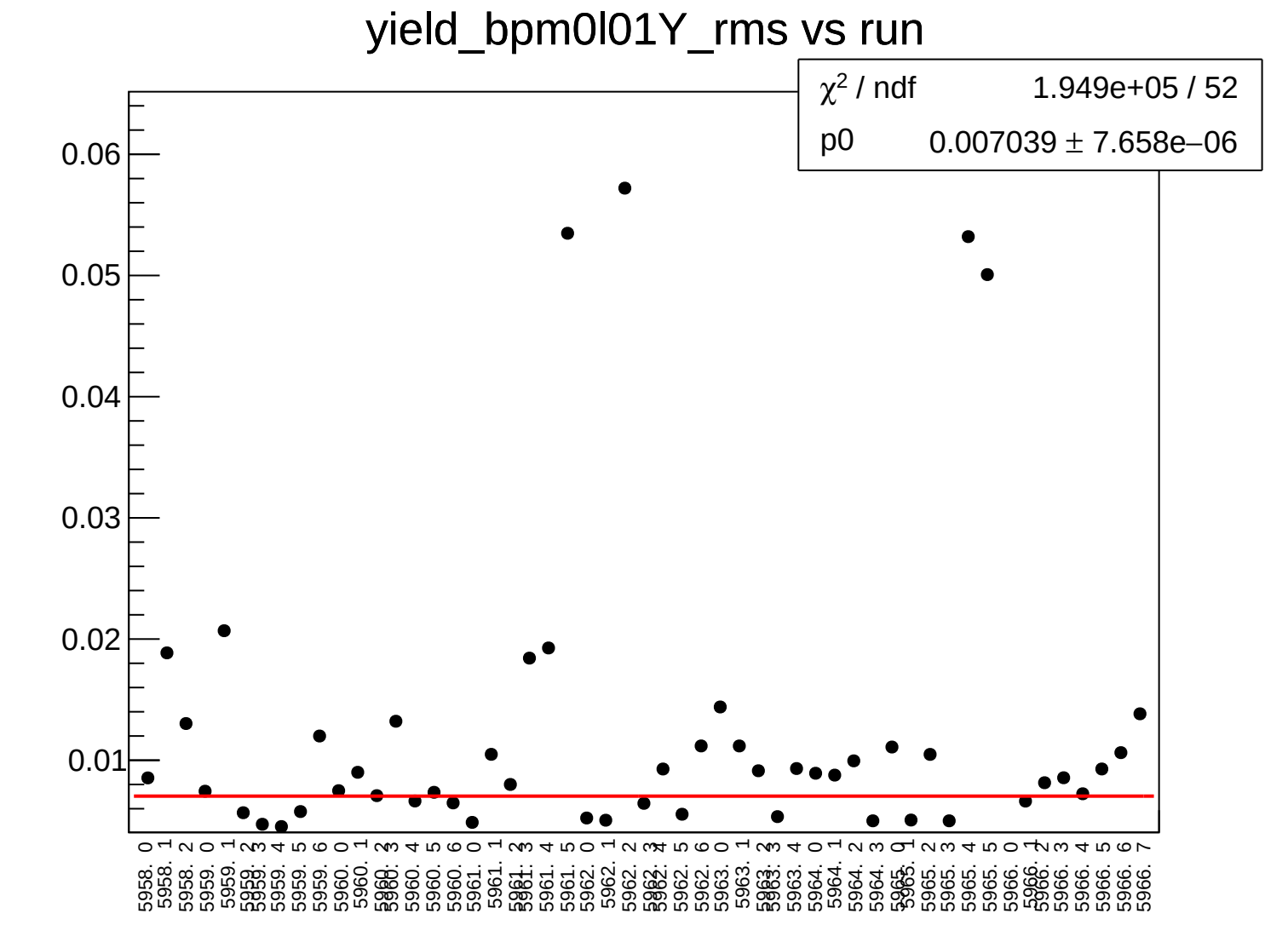

yield_bpm0l01X_mean vs run
χ² / ndf 3.5e+06 / 52
p0 −1.971 ± 1.034e−05
−1.88
−1.9
−1.92
−1.94
−1.96
−1.98
−2
pull
Entries 53
Mean −80.9
Std Dev 108.8
1000
800
600
400
200
0
−200
−400

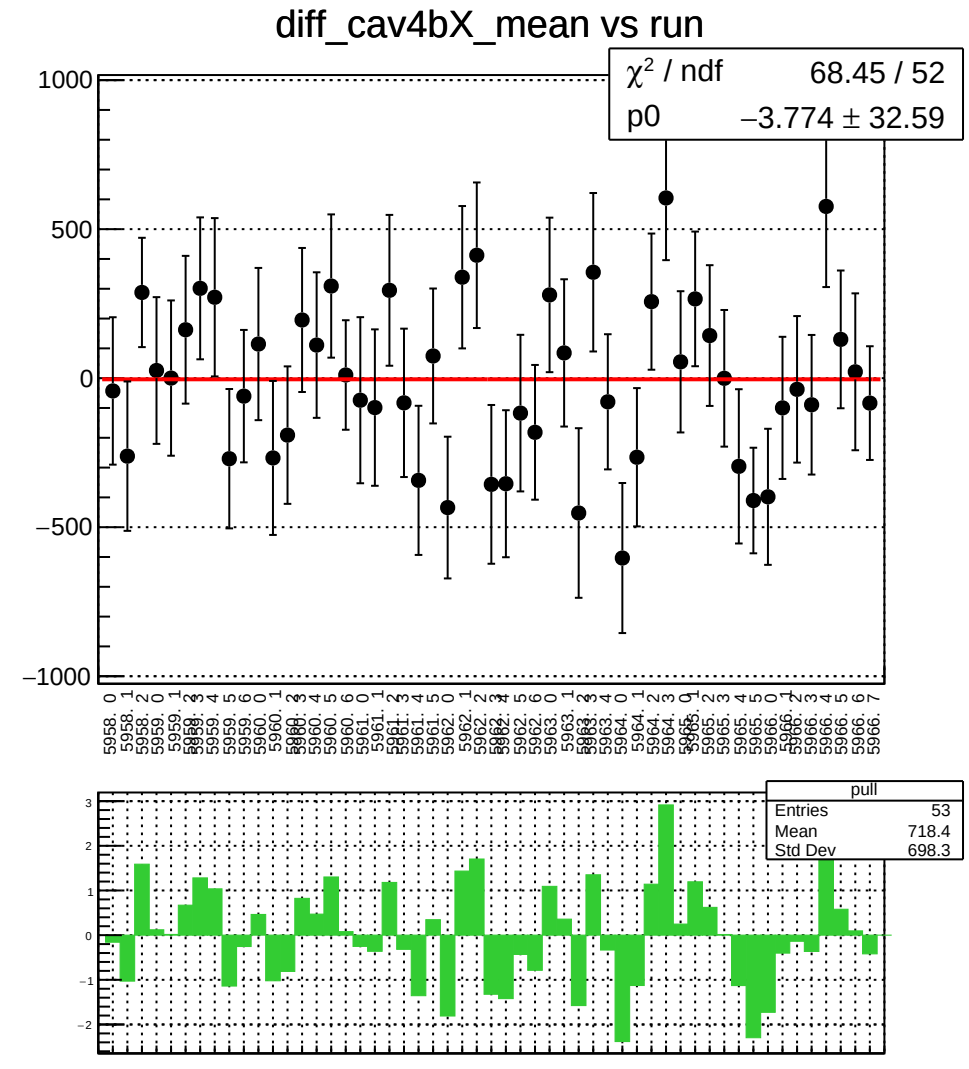

pull1D
Entries 53
Mean 0.4544
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

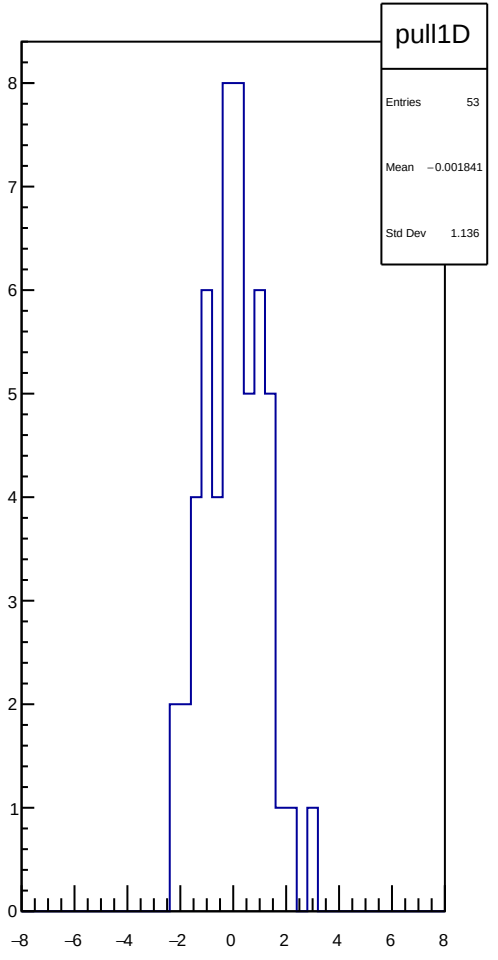

yield_bpm0l01X_rms vs run
χ² / ndf 1.502e+05 / 52
p0 0.006897 ± 7.312e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

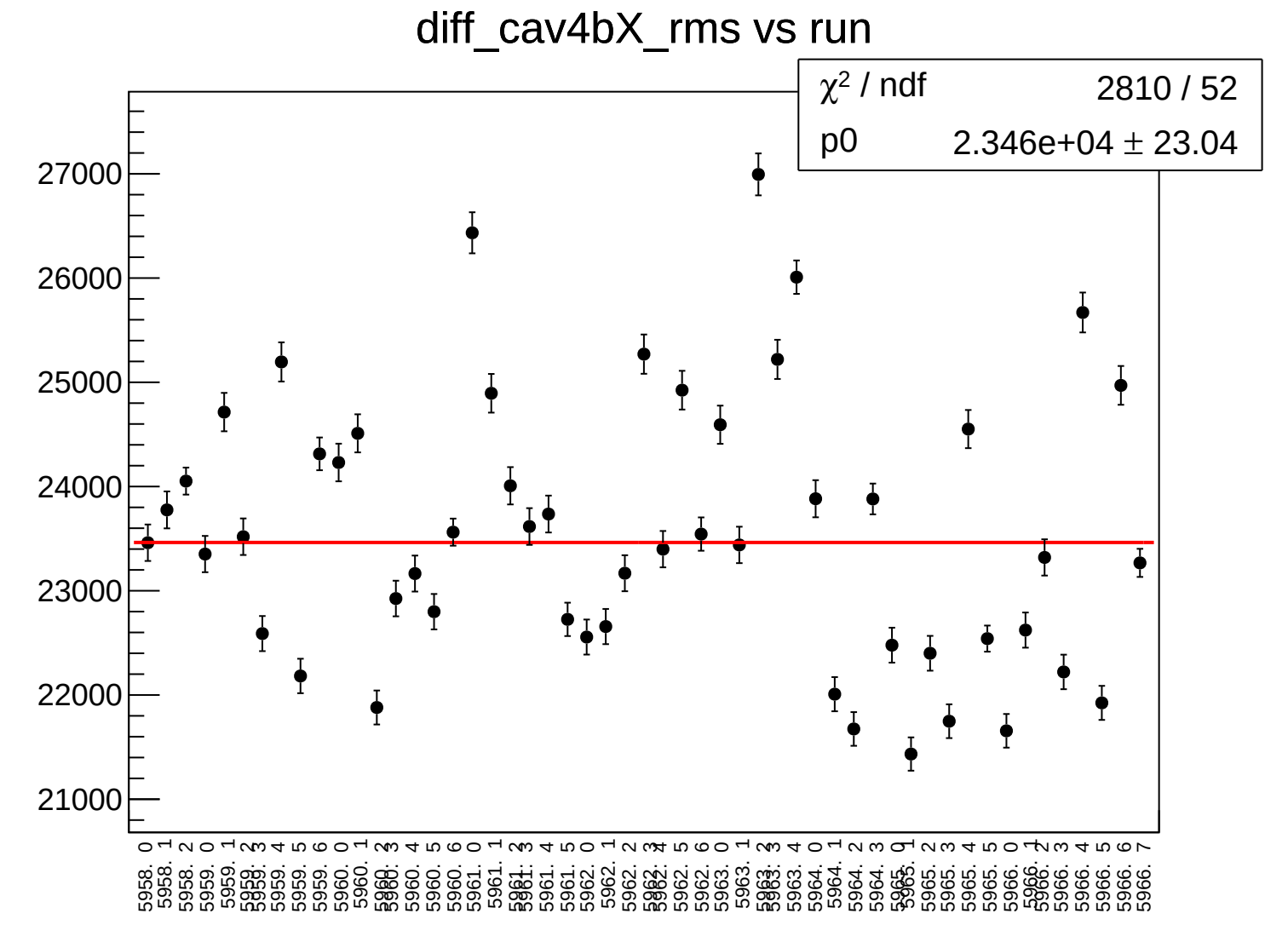

yield_bpm0l01Y_mean vs run
χ² / ndf 1.53e+07 / 52
p0 −5.988 ± 1.083e−05
−5.94
−5.96
−5.98
−6
−6.02
−6.04
−6.06
−6.08
−6.1
−6.12
pull
Entries 53
Mean −587
Std Dev 612.7
1000
500
0
−500
−1000
−1500
−2000
−2500

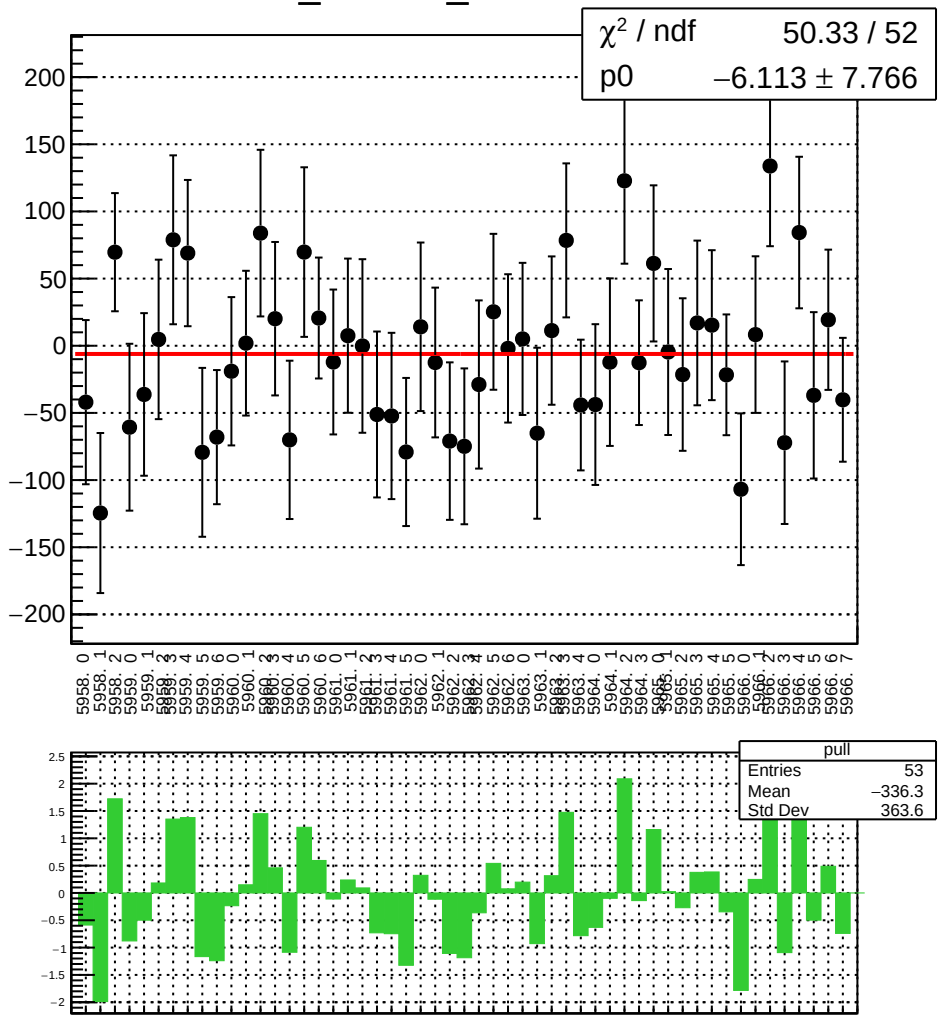

pull1D
Entries 53
Mean 7.086
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

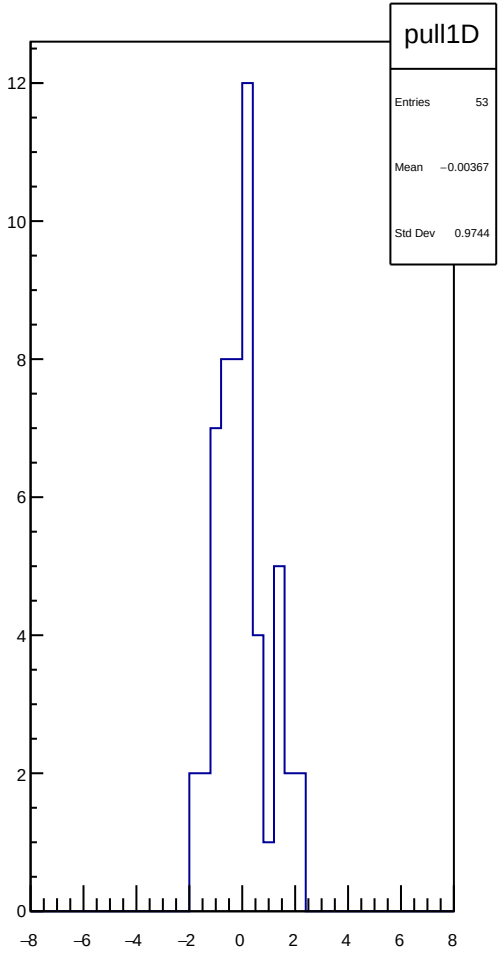

yield_bpm0l01Y_rms vs run
χ² / ndf 1.949e+05 / 52
p0 0.007039 ± 7.658e−06
0.06
0.05
0.04
0.03
0.02
0.01

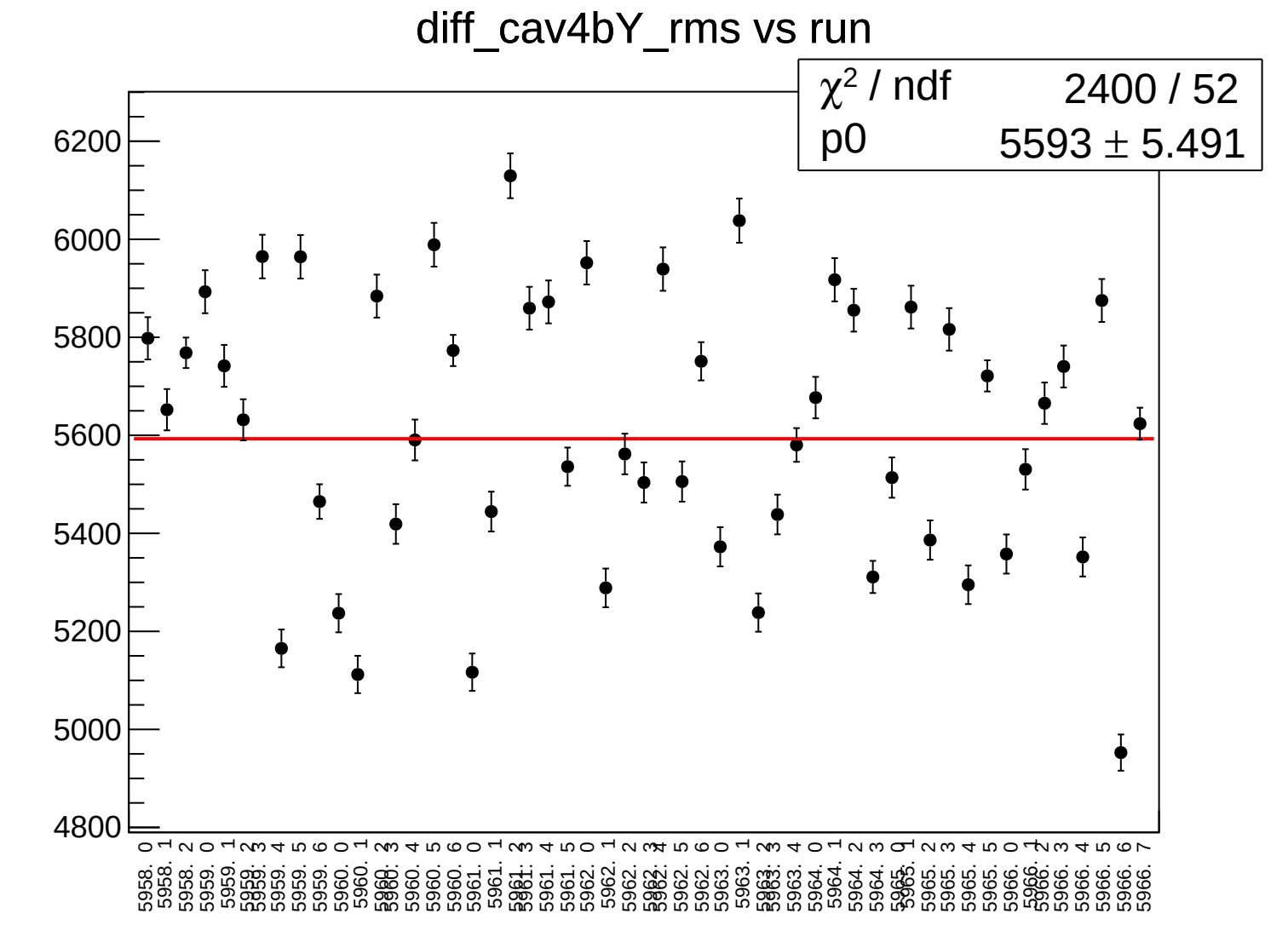

diff_cav4bX_mean vs run
χ² / ndf 68.45 / 52
p0 −3.774 ± 32.59
1000
500
0
−500
−1000
pull
Entries 53
Mean 718.4
Std Dev 698.3
3
2
1
0
−1
−2


pull1D
Entries 53
Mean −0.001841
Std Dev 1.136
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4bX_rms vs run
χ² / ndf 2810 / 52
p0 2.346e+04 ± 23.04
27000
26000
25000
24000
23000
22000
21000


diff_cav4bY_mean vs run
χ² / ndf 50.33 / 52
p0 −6.113 ± 7.766
pull
Entries 53
Mean −336.3
Std Dev 363.6


pull1D
Entries 53
Mean −0.00367
Std Dev 0.9744


diff_cav4bY_rms vs run
χ² / ndf 2400 / 52
p0 5593 ± 5.491
6200
6000
5800
5600
5400
5200
5000
4800
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5964. 4
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
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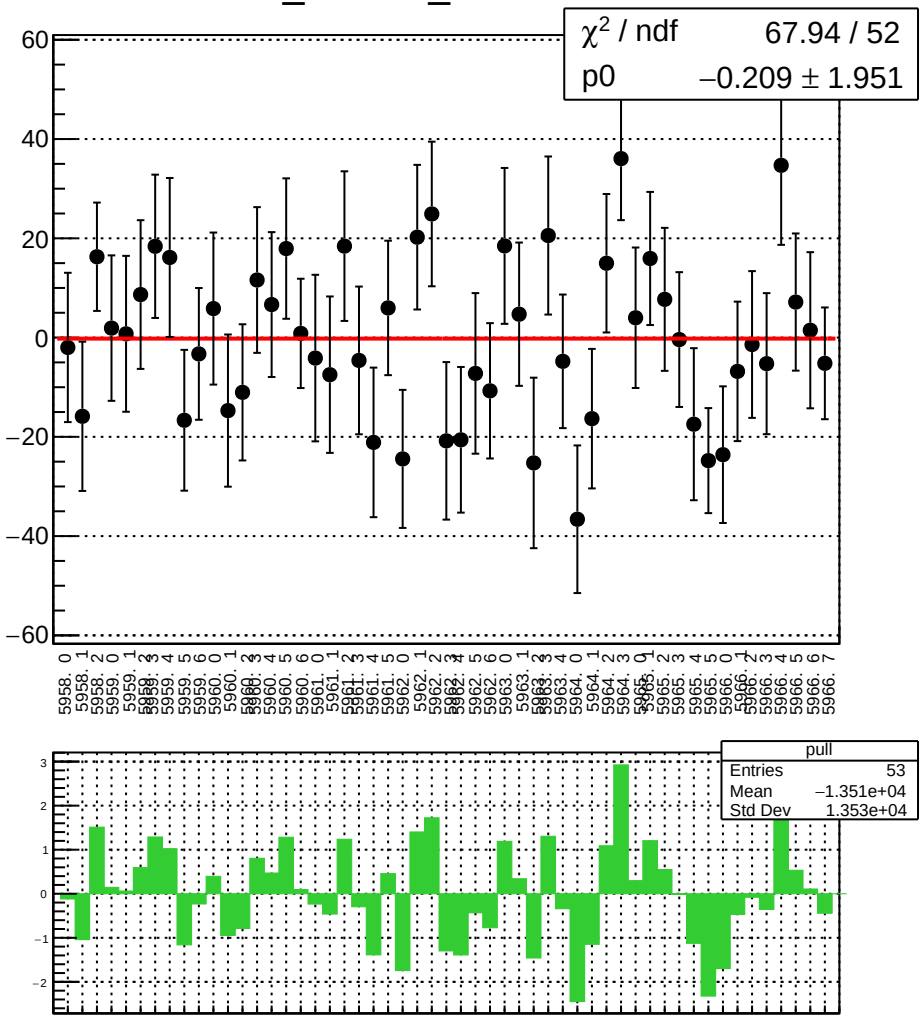
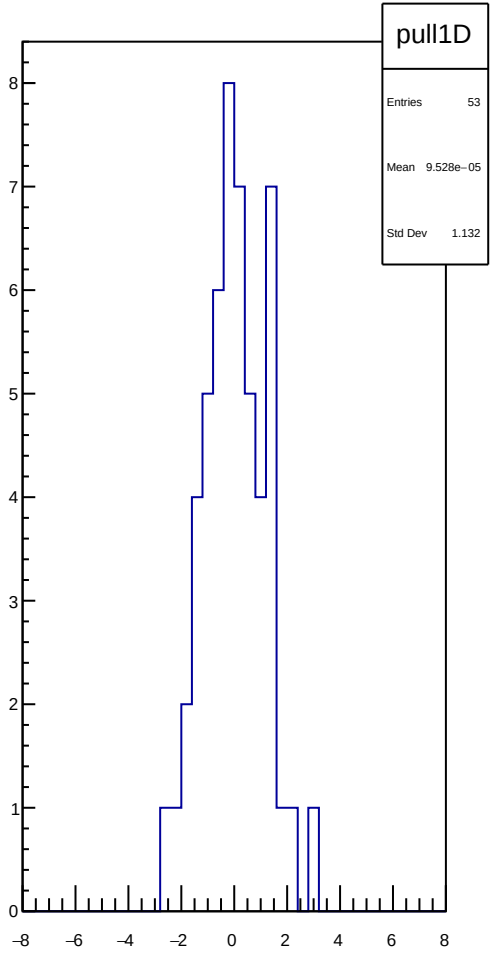
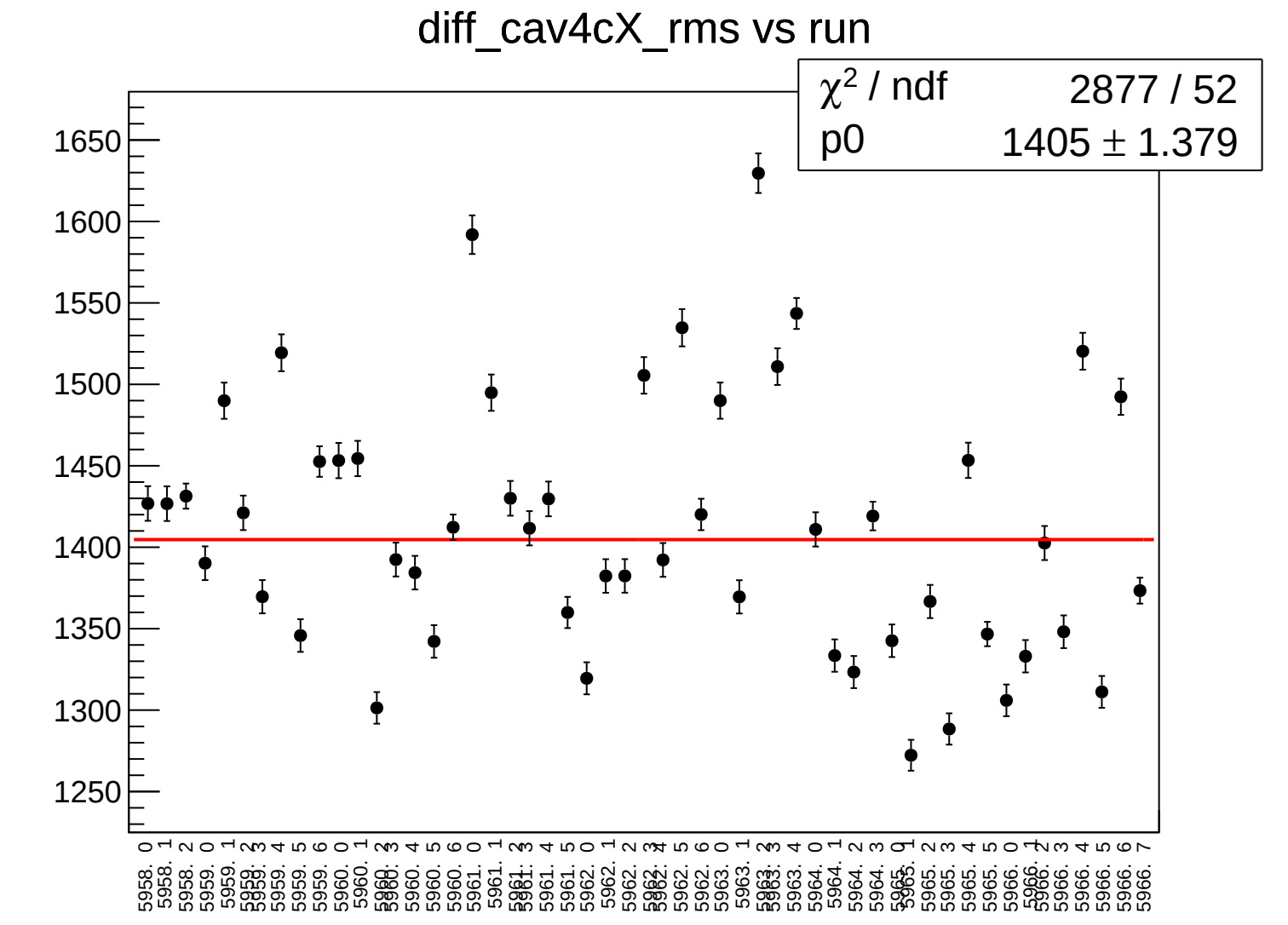
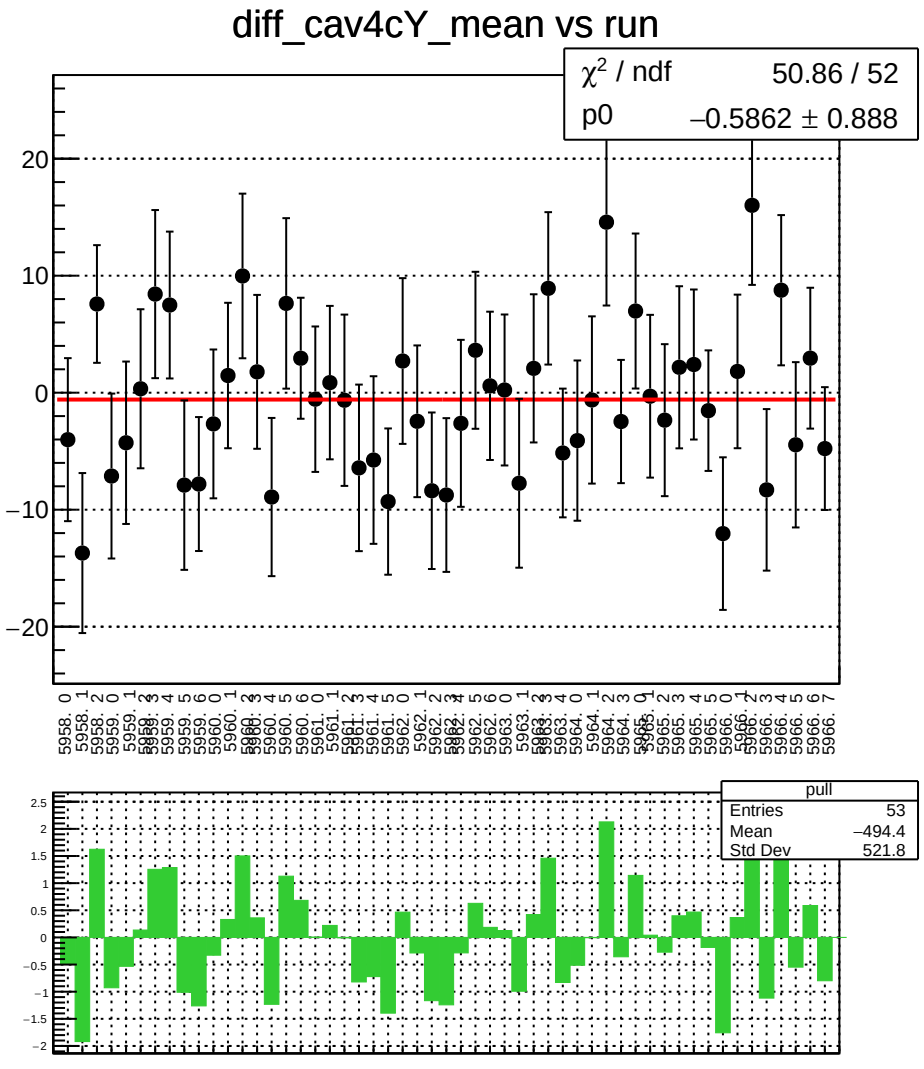
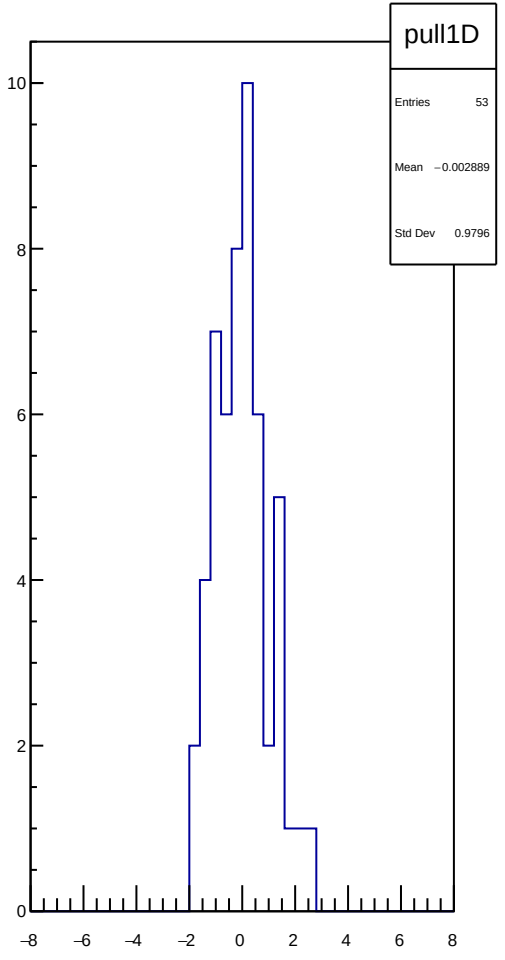
5966. 4
5966. 5
5966. 6
5966. 7

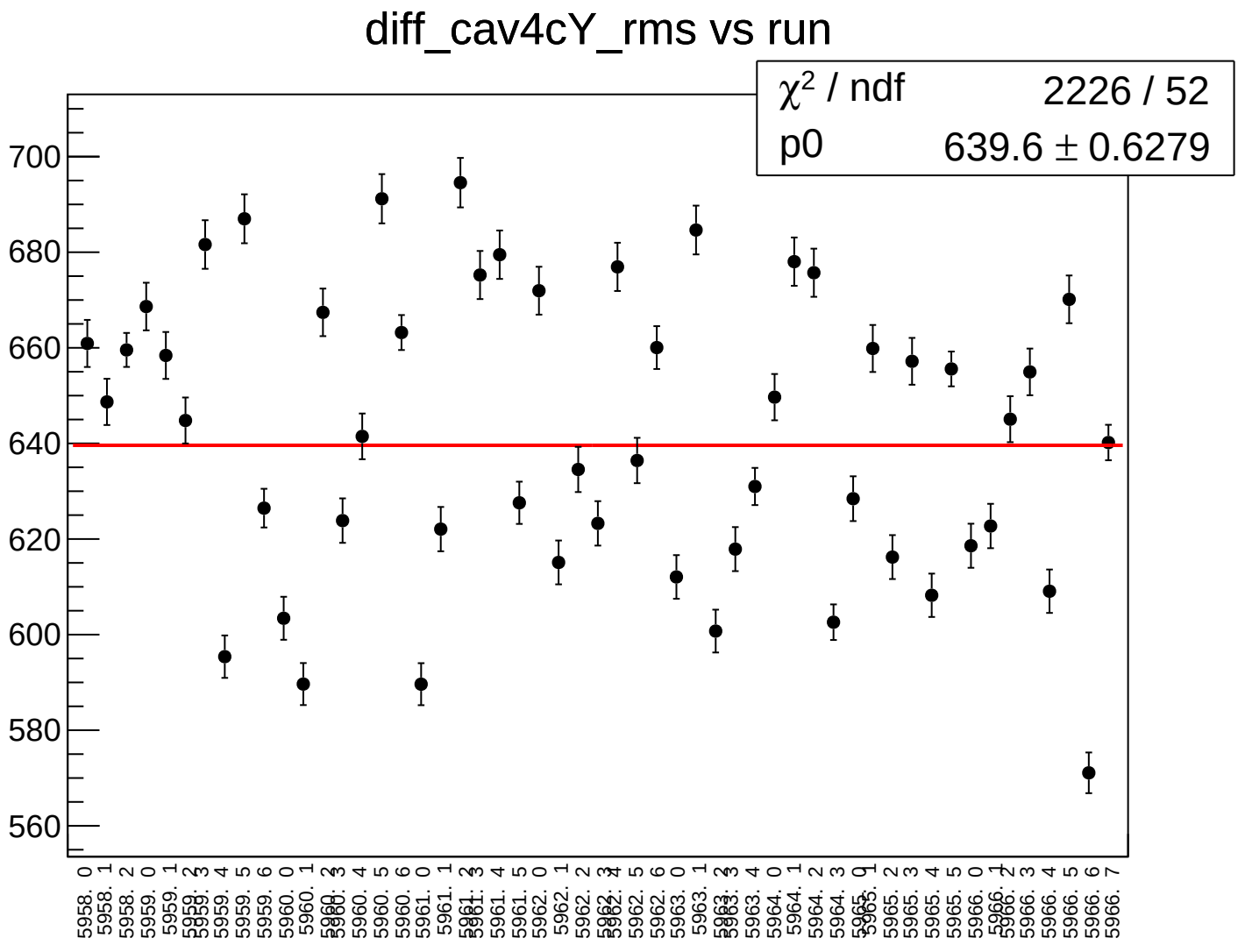

diff_cav4cX_mean vs run
χ² / ndf 67.94 / 52
p0 −0.209 ± 1.951
pull
Entries 53
Mean −1.351e+04
Std Dev 1.353e+04

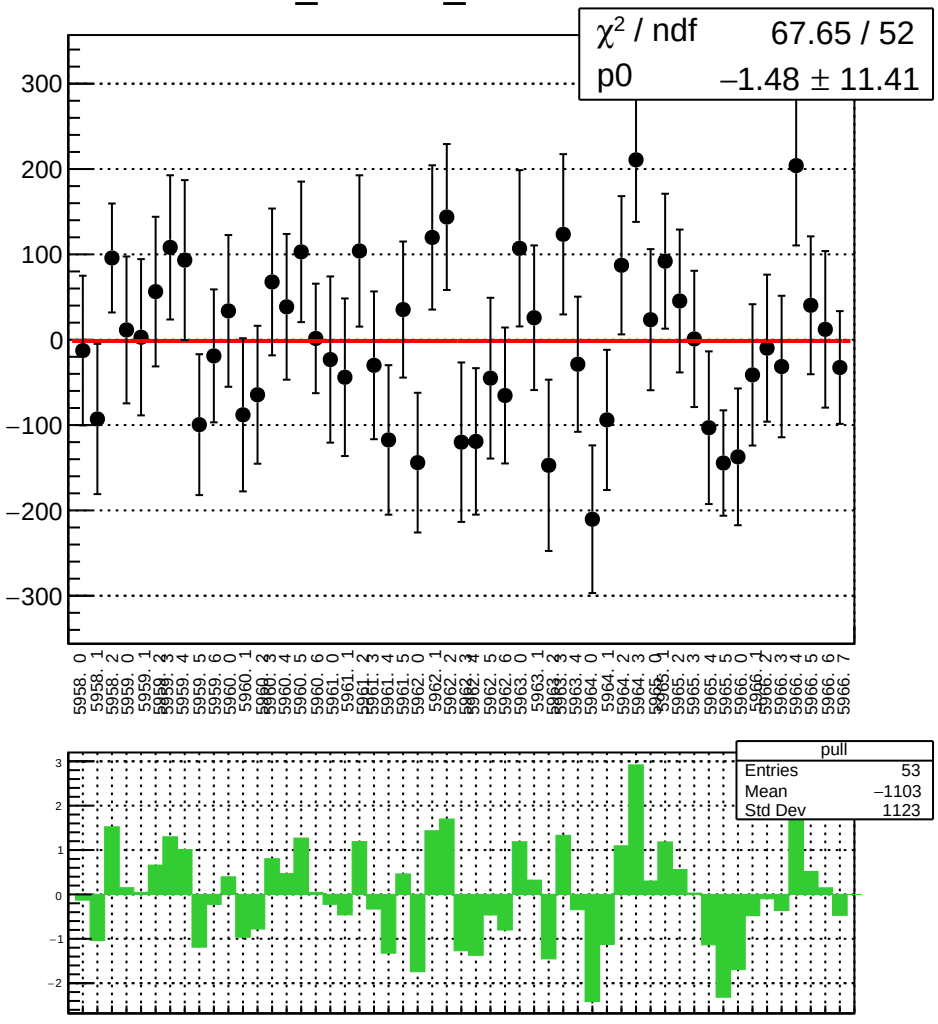

pull1D
Entries 53
Mean 9.528e−05
Std Dev 1.132

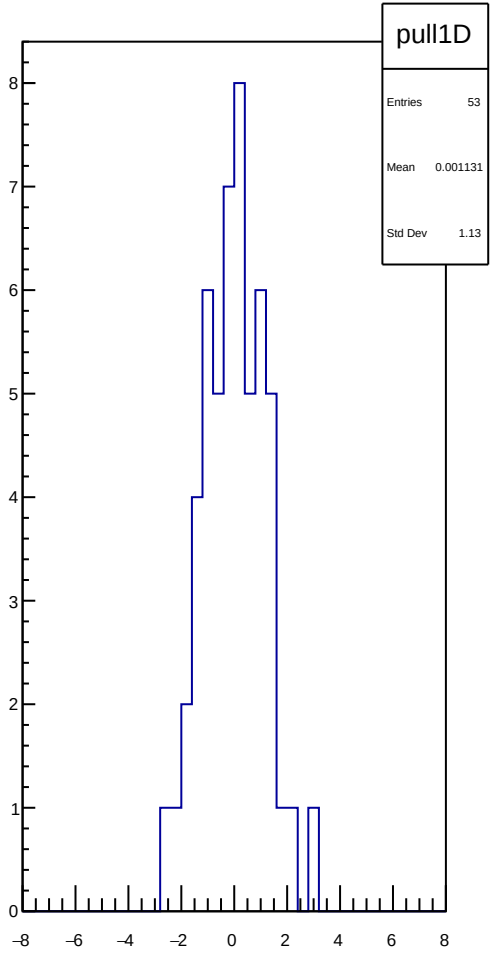

diff_cav4cX_rms vs run
χ² / ndf 2877 / 52
p0 1405 ± 1.379
1650
1600
1550
1500
1450
1400
1350
1300
1250

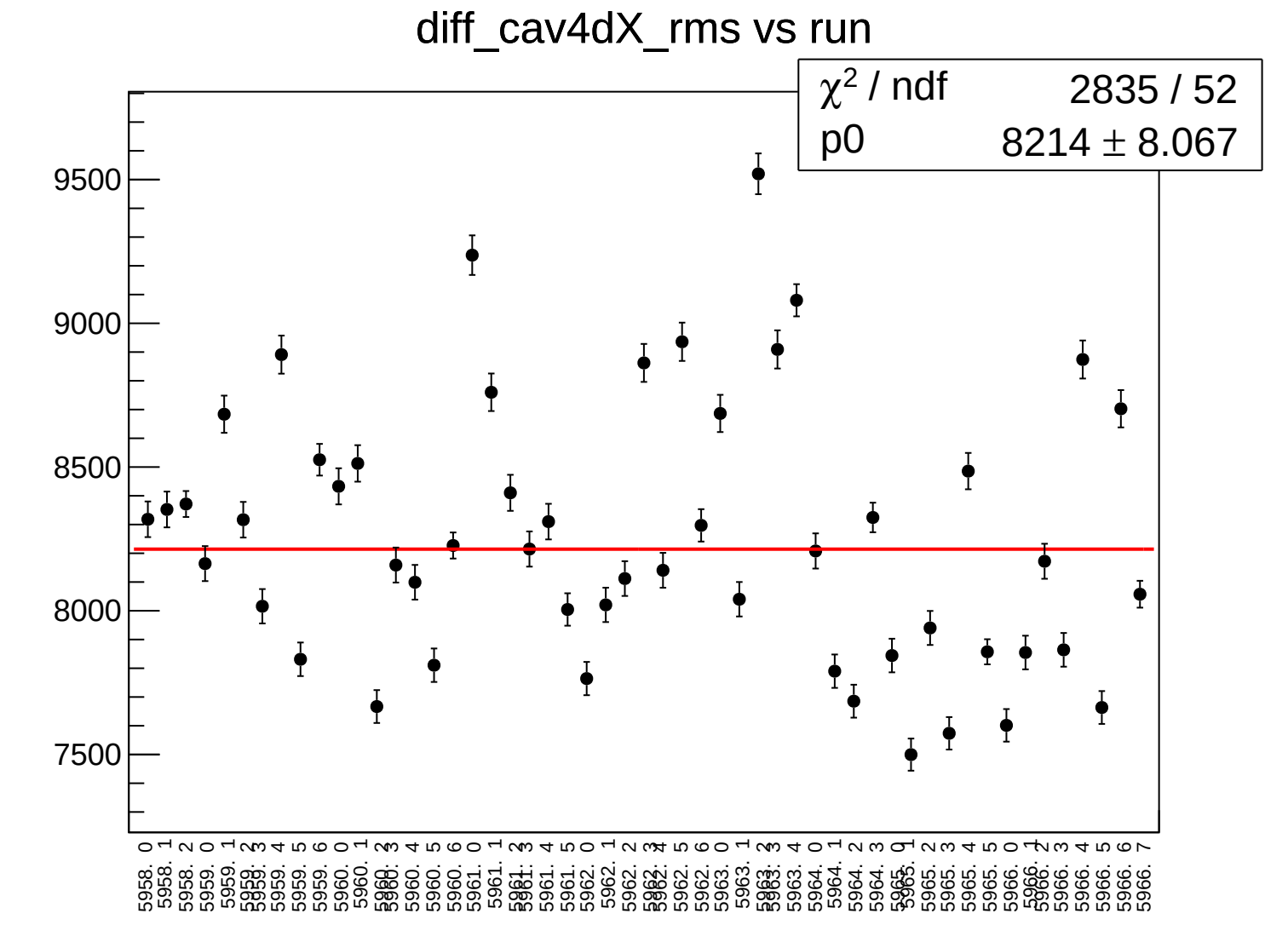

diff_cav4cY_mean vs run
χ² / ndf 50.86 / 52
p0 −0.5862 ± 0.888
pull
Entries 53
Mean −494.4
Std Dev 521.8

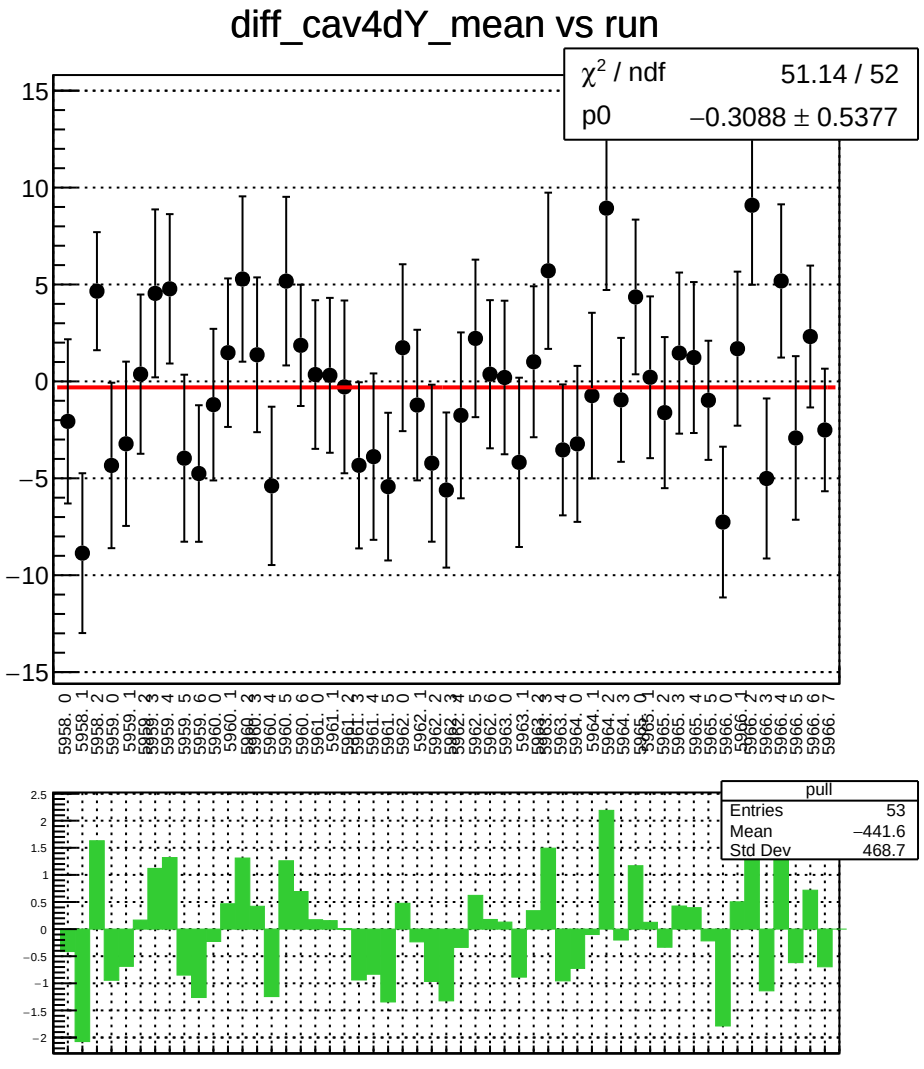

pull1D
Entries 53
Mean −0.002889
Std Dev 0.9796

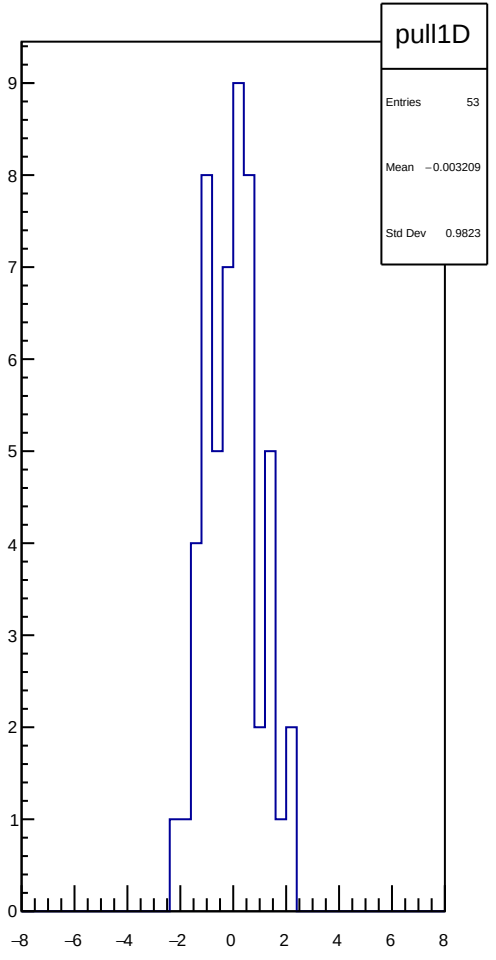

diff_cav4cY_rms vs run
χ² / ndf 2226 / 52
p0 639.6 ± 0.6279
700
680
660
640
620
600
580
560

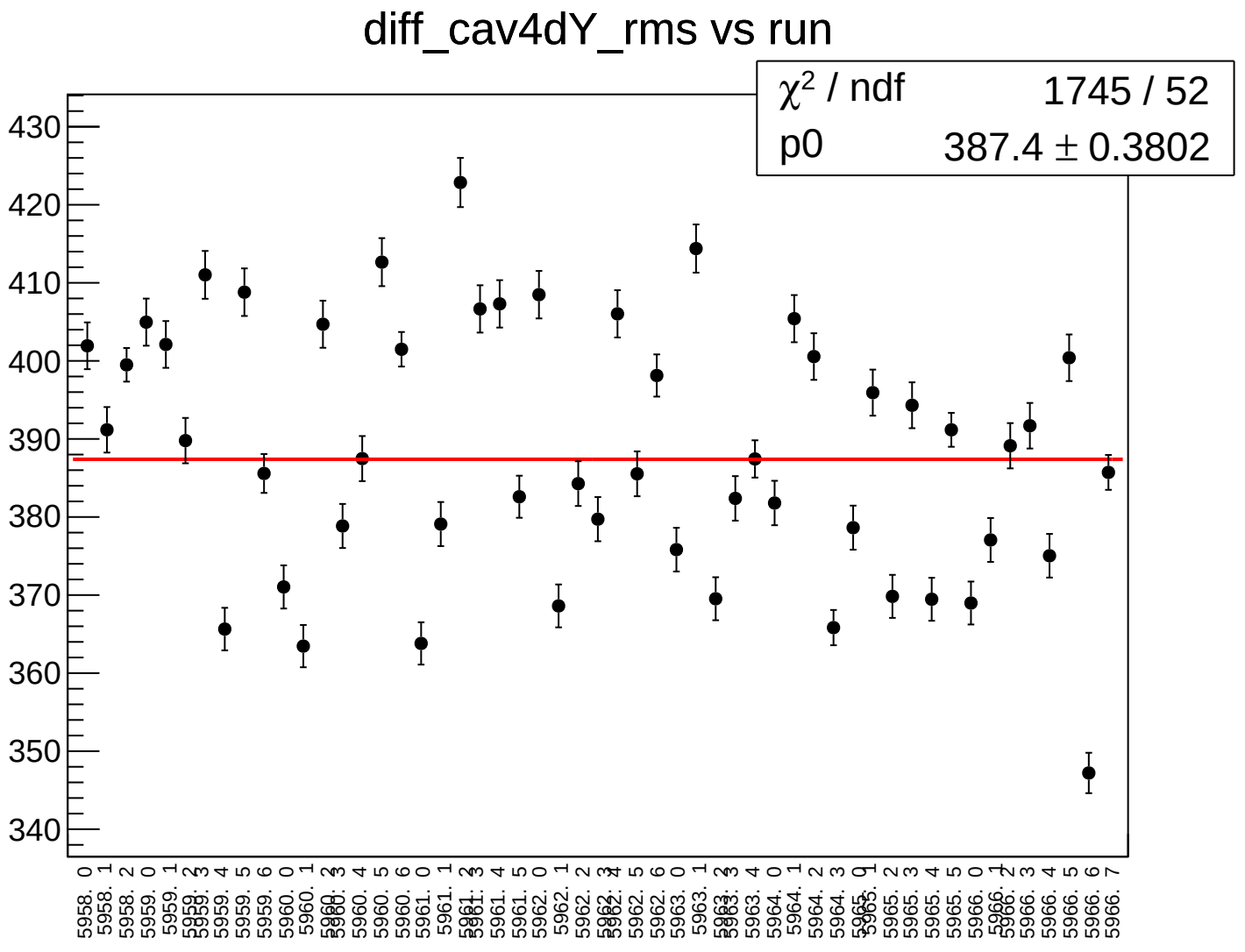

diff_cav4dX_mean vs run
χ² / ndf 67.65 / 52
p0 −1.48 ± 11.41
pull
Entries 53
Mean −1103
Std Dev 1123

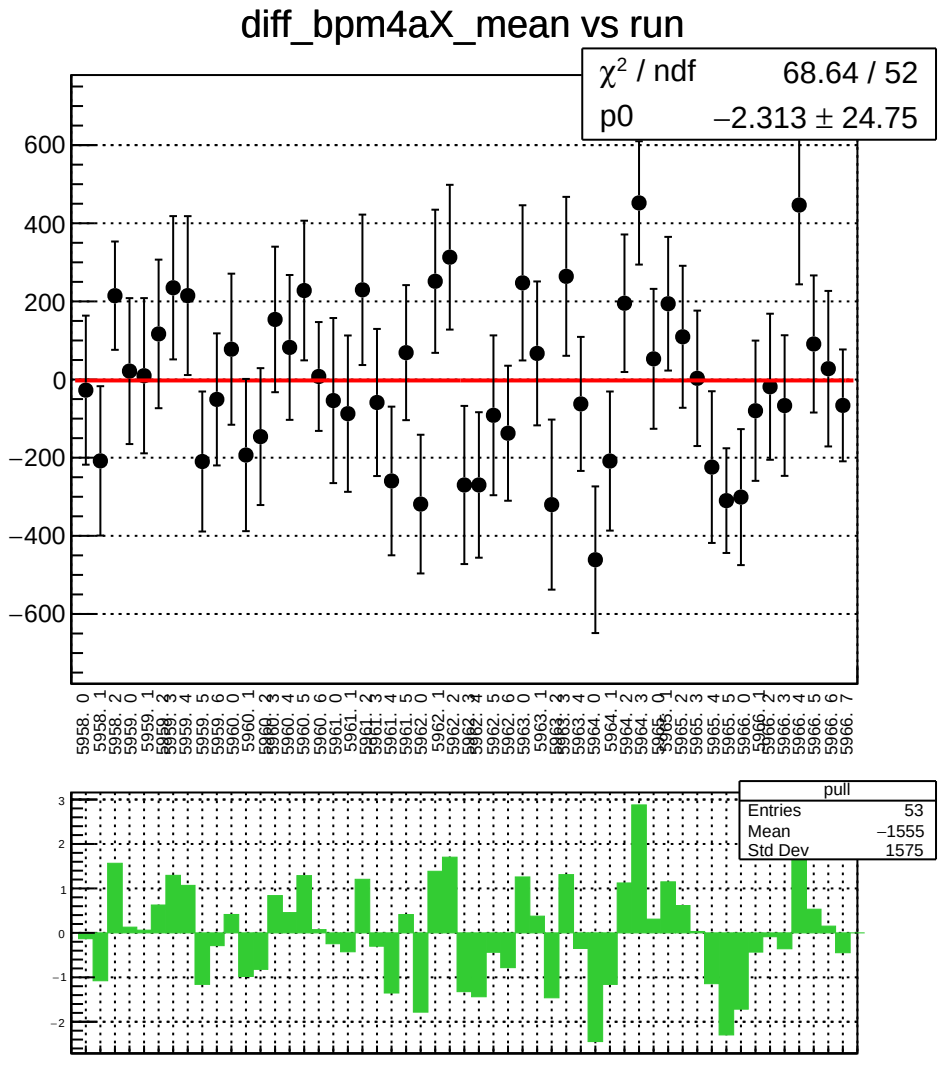

pull1D
Entries 53
Mean 0.001131
Std Dev 1.13

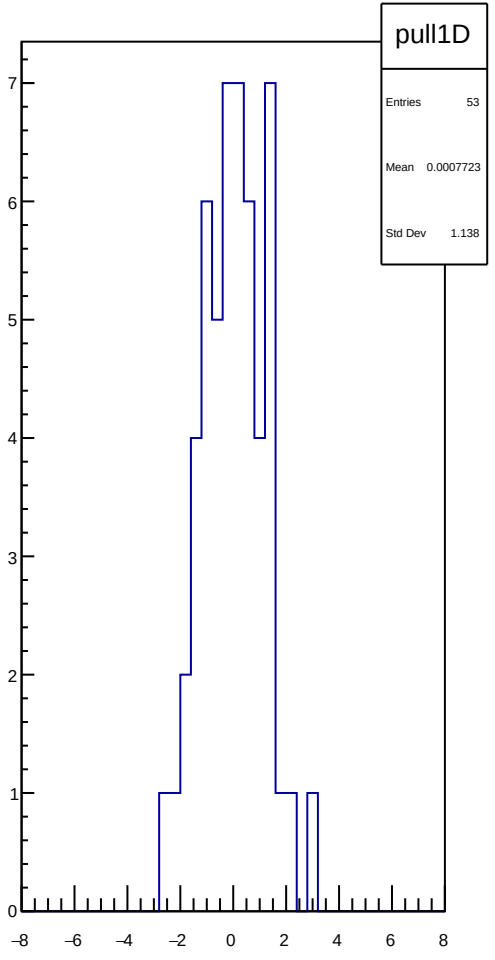

diff_cav4dX_rms vs run
χ² / ndf 2835 / 52
p0 8214 ± 8.067
9500
9000
8500
8000
7500
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

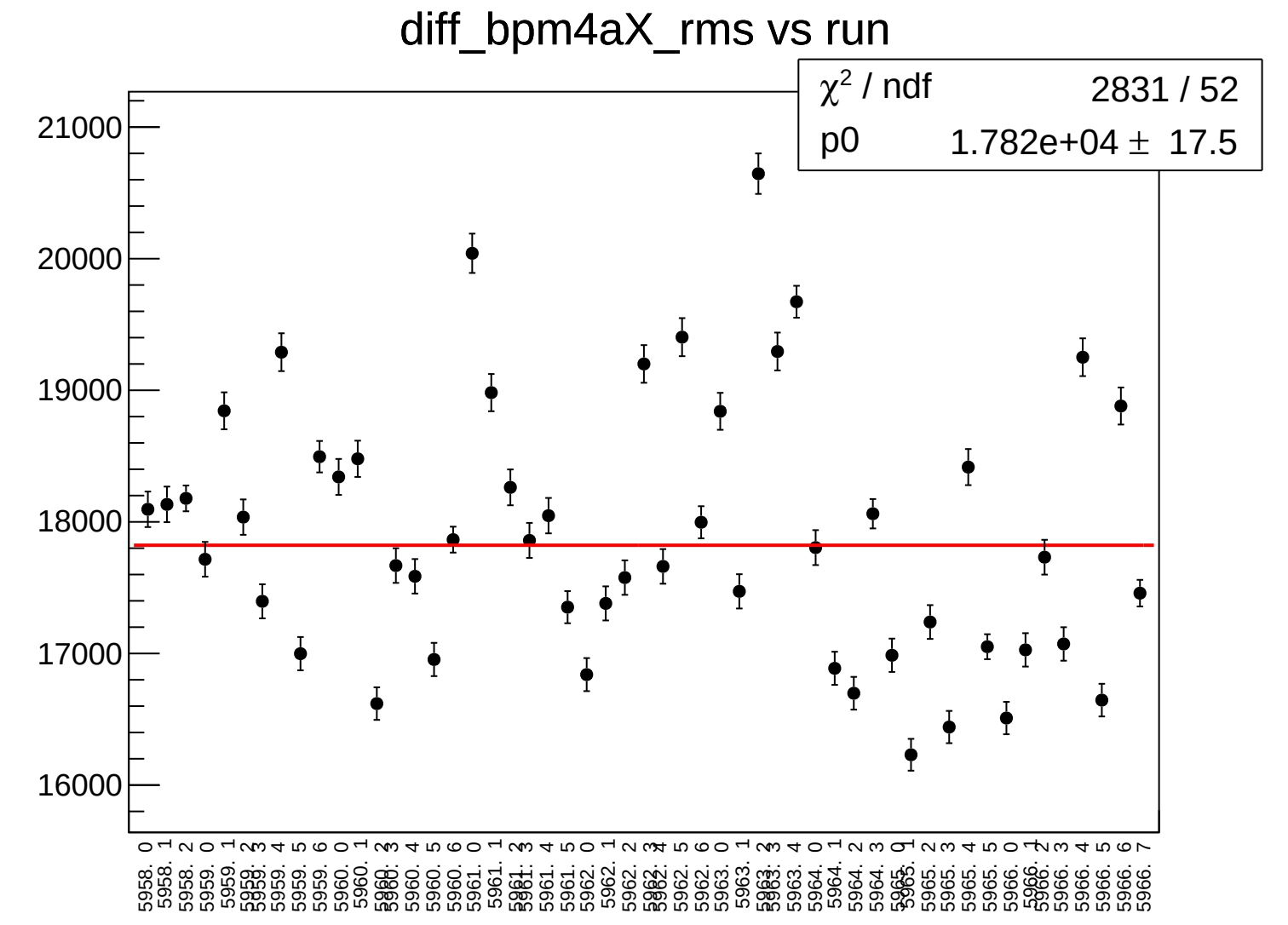

diff_cav4dY_mean vs run
χ² / ndf 51.14 / 52
p0 −0.3088 ± 0.5377
pull
Entries 53
Mean −441.6
Std Dev 468.7


pull1D
Entries 53
Mean −0.003209
Std Dev 0.9823


diff_cav4dY_rms vs run
χ² / ndf 1745 / 52
p0 387.4 ± 0.3802
430
420
410
400
390
380
370
360
350
340


diff_bpm4aX_mean vs run
χ² / ndf 68.64 / 52
p0 −2.313 ± 24.75
pull
Entries 53
Mean −1555
Std Dev 1575


pull1D
Entries 53
Mean 0.0007723
Std Dev 1.138


diff_bpm4aX_rms vs run
χ² / ndf 2831 / 52
p0 1.782e+04 ± 17.5
21000
20000
19000
18000
17000
16000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
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5966. 2
5966. 3
5966. 4
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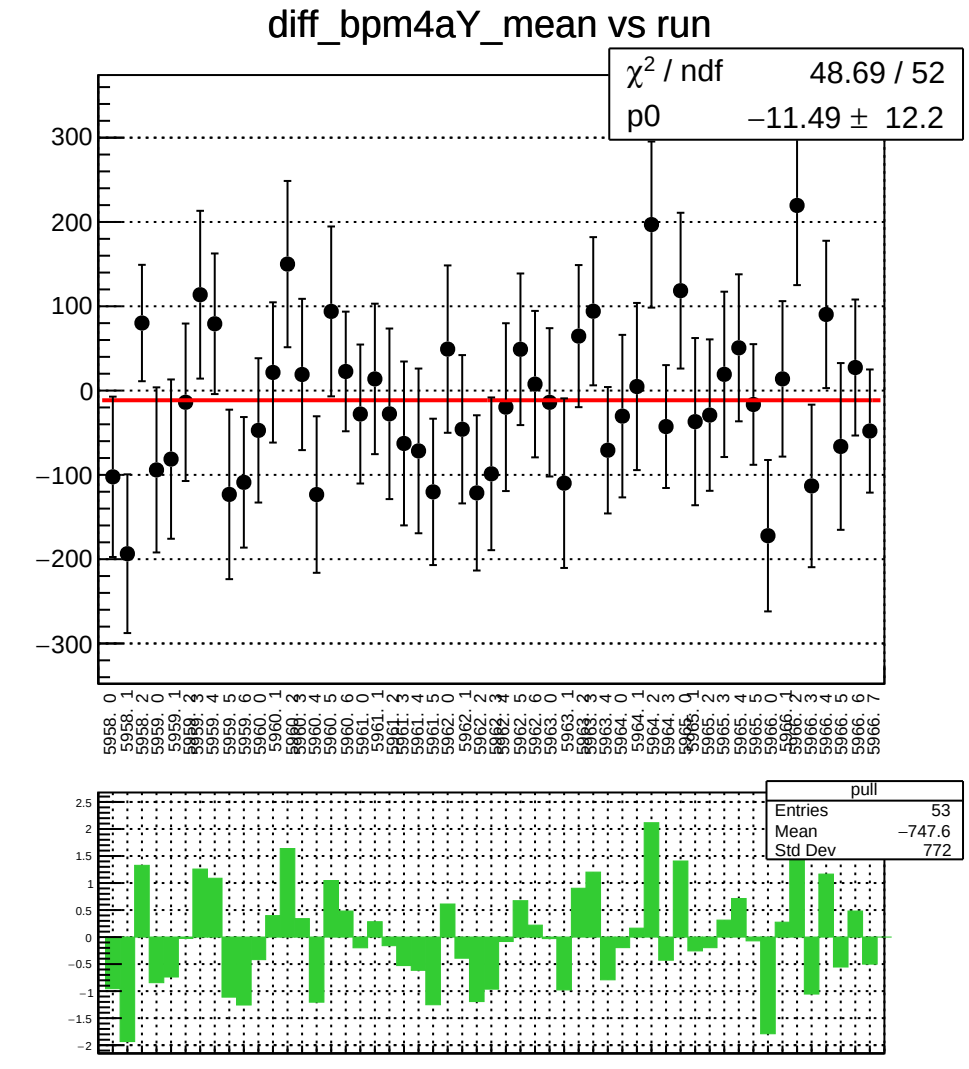
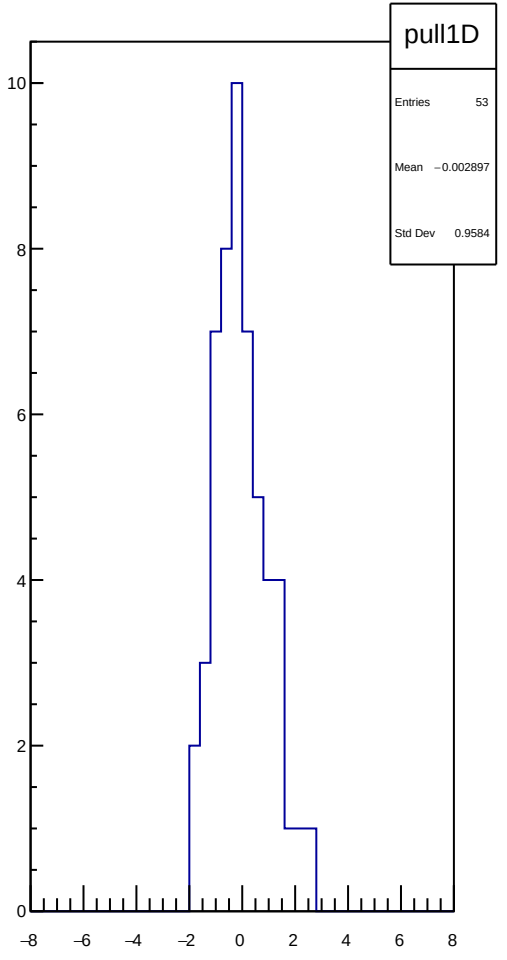
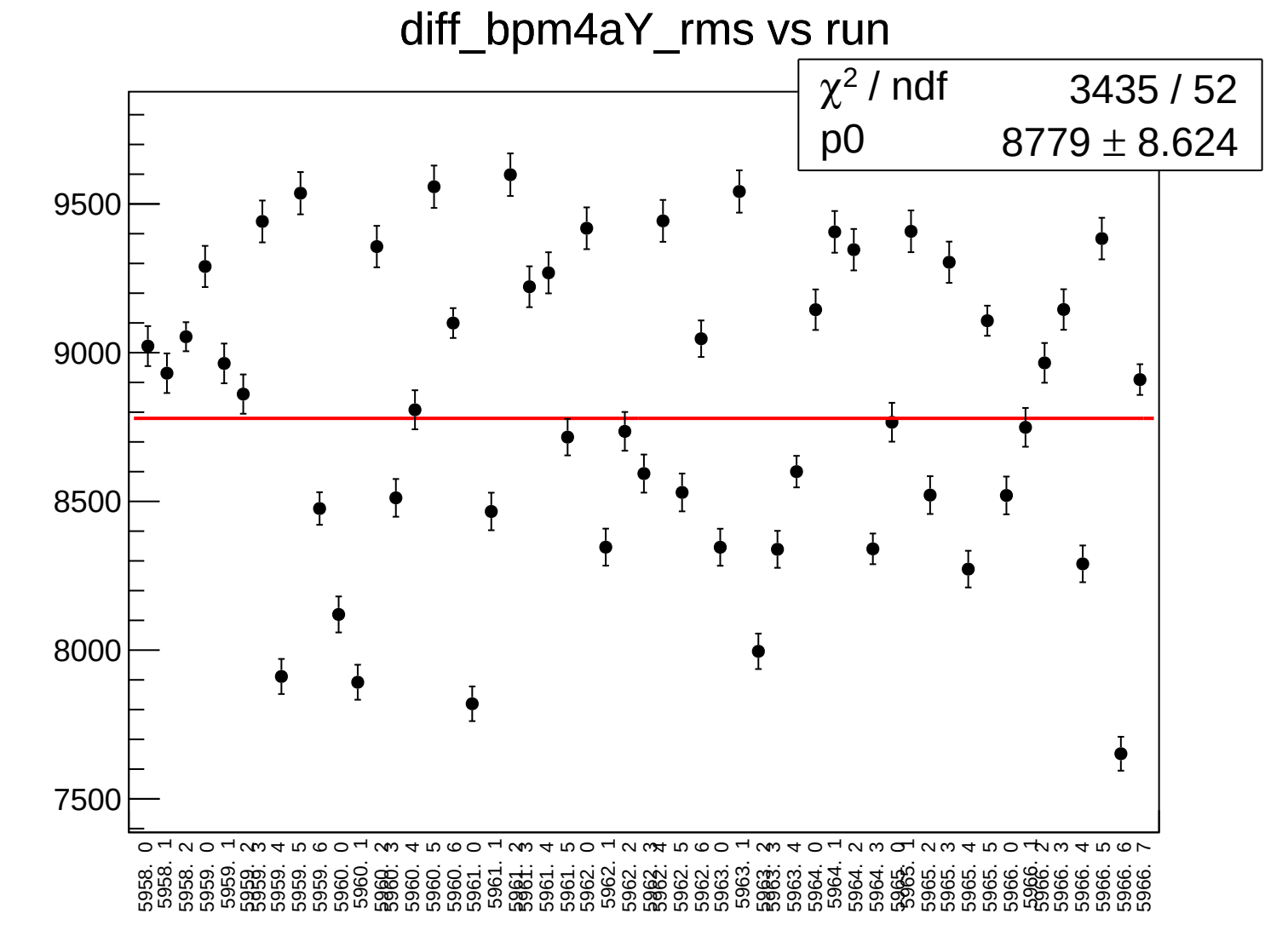
5966. 6
5966. 7


diff_bpm4aY_mean vs run
χ² / ndf 48.69 / 52
p0 −11.49 ± 12.2
pull
Entries 53
Mean −747.6
Std Dev 772


pull1D
Entries 53
Mean −0.002897
Std Dev 0.9584


diff_bpm4aY_rms vs run
χ² / ndf 3435 / 52
p0 8779 ± 8.624
9500
9000
8500
8000
7500
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
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5963. 1
5963. 2
5963. 3
5963. 4
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5964. 2
5964. 3
5964. 4
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
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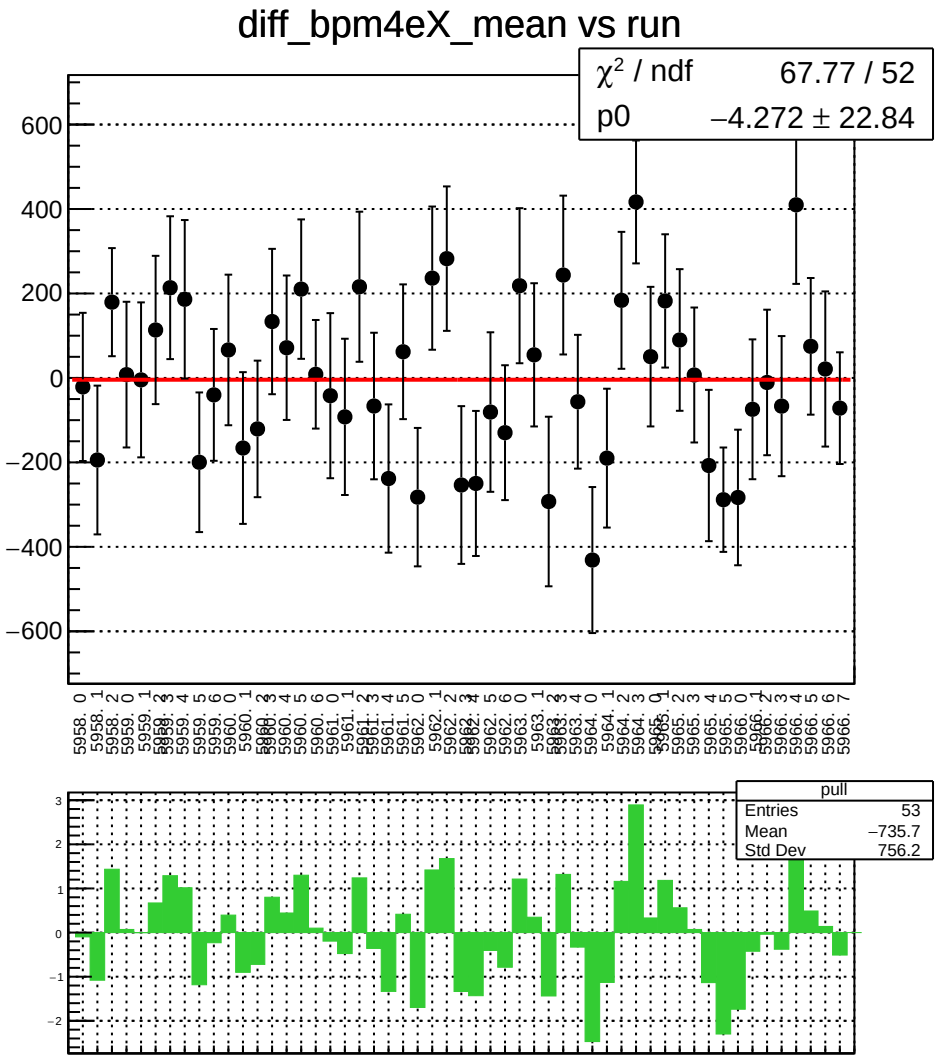
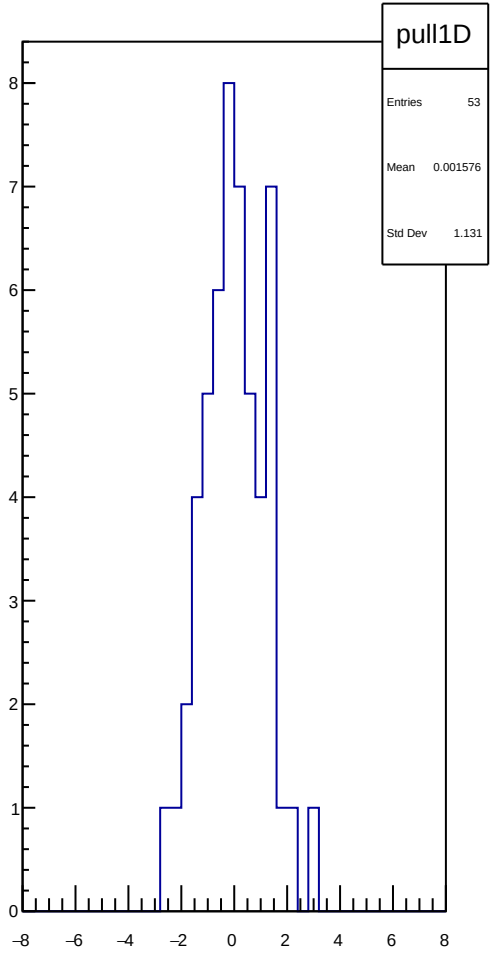
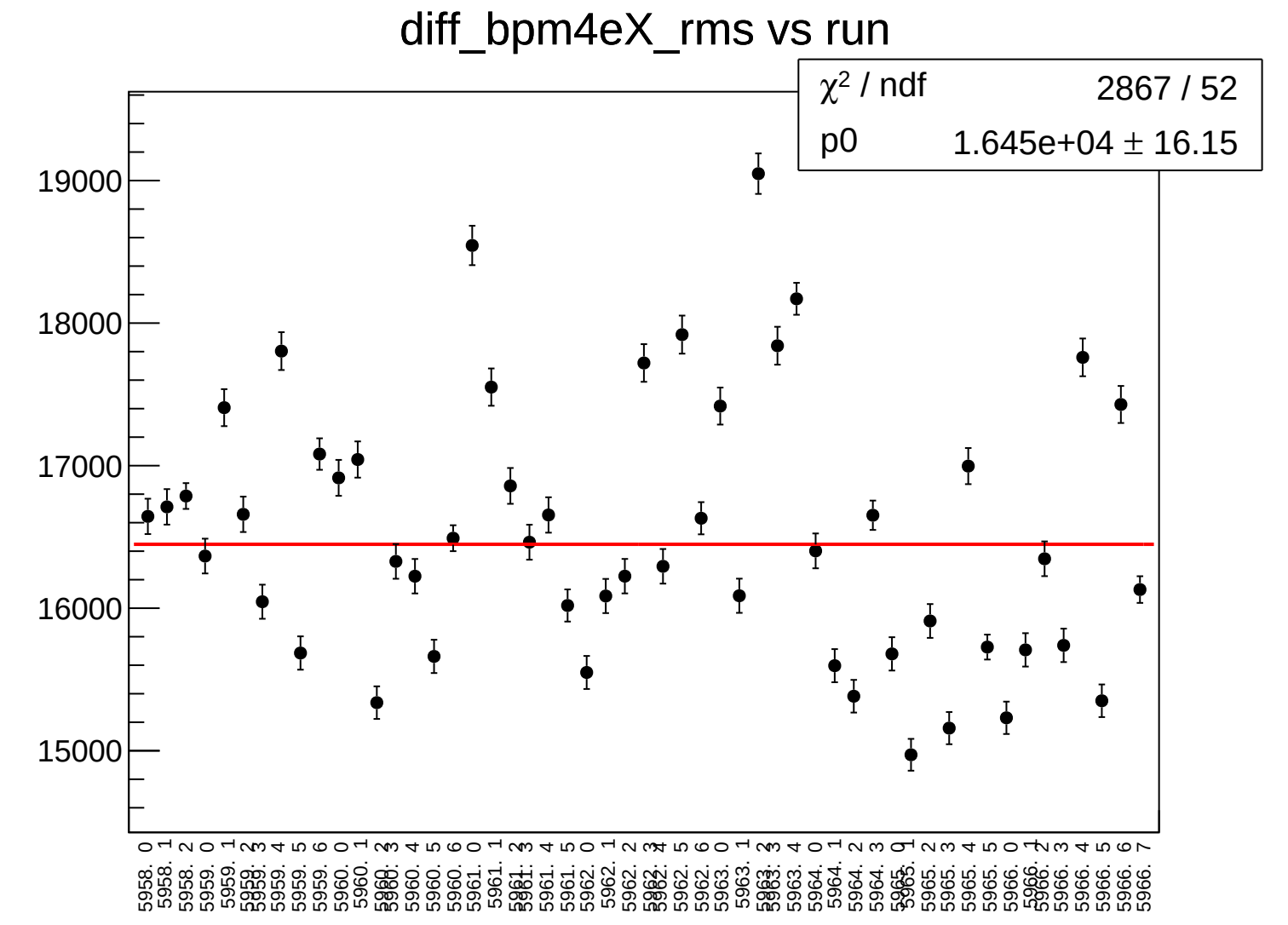
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7


diff_bpm4eX_mean vs run
χ² / ndf 67.77 / 52
p0 −4.272 ± 22.84
pull
Entries 53
Mean −735.7
Std Dev 756.2


pull1D
Entries 53
Mean 0.001576
Std Dev 1.131


diff_bpm4eX_rms vs run
χ² / ndf 2867 / 52
p0 1.645e+04 ± 16.15
19000
18000
17000
16000
15000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
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5962. 6
5963. 0
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5964. 3
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5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
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5966. 1
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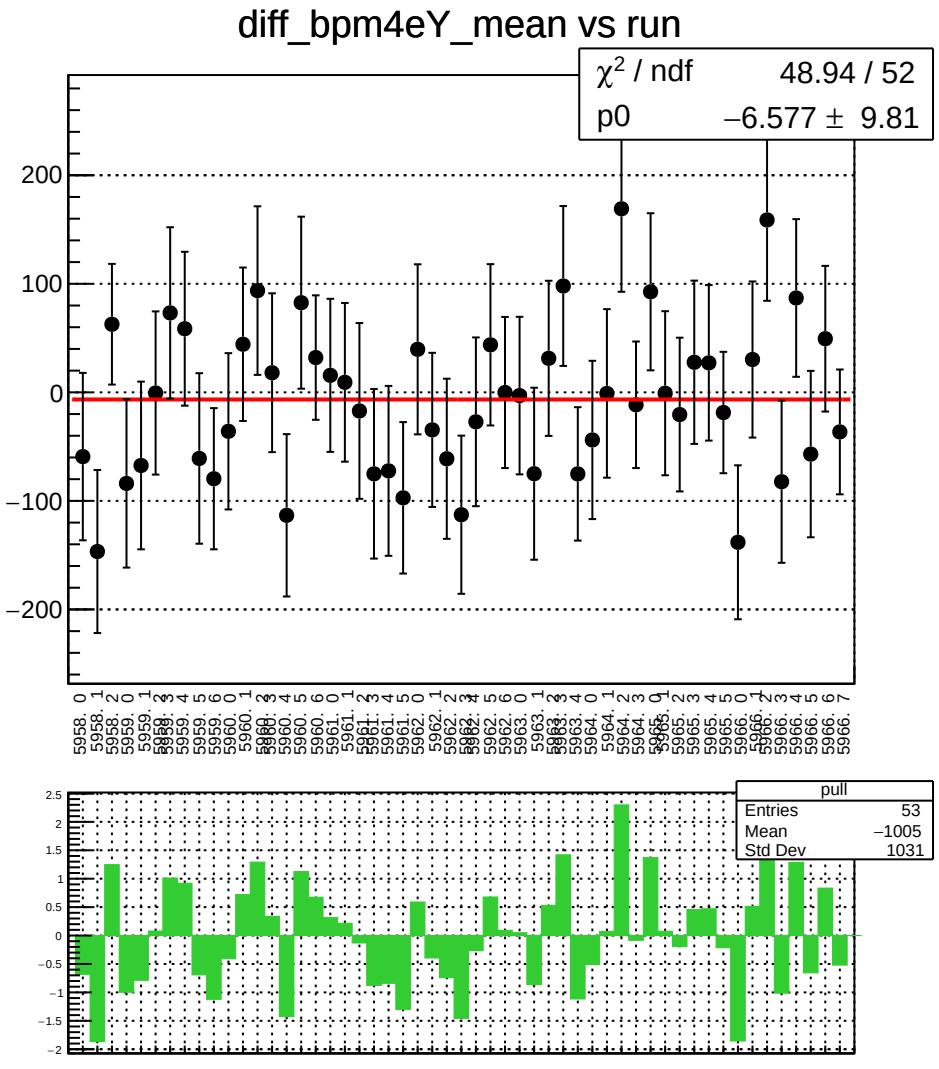
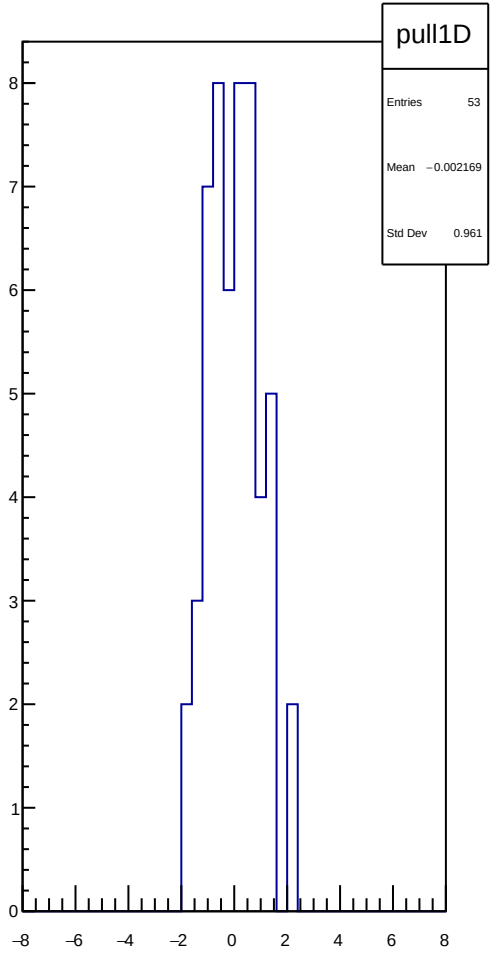
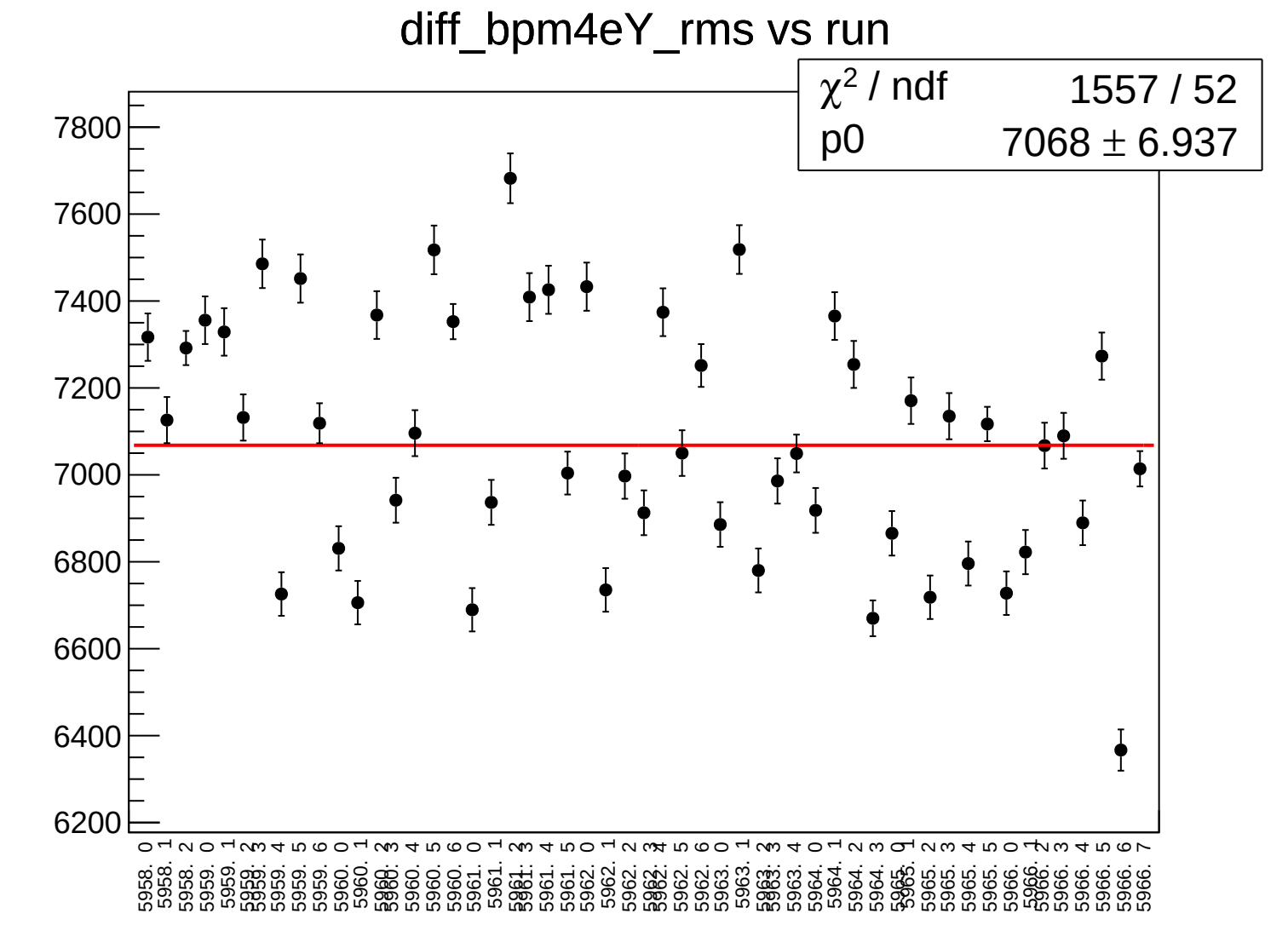
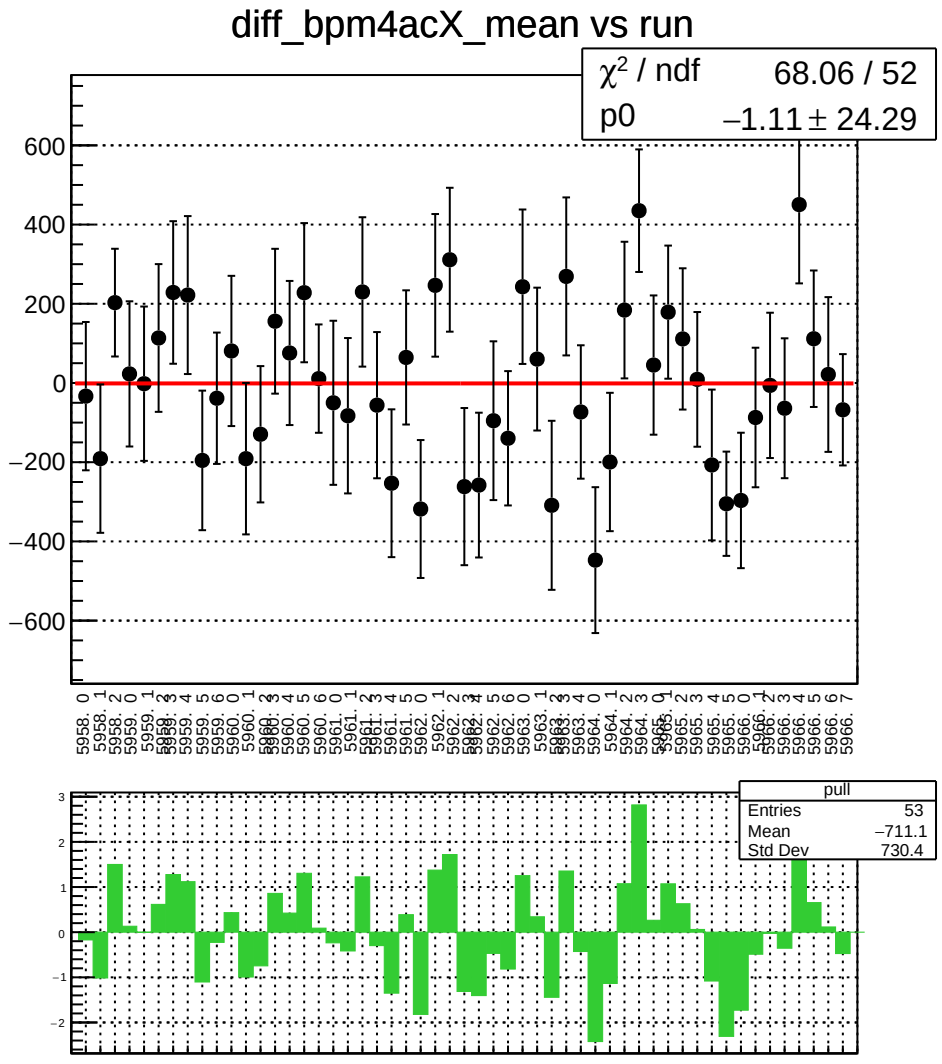
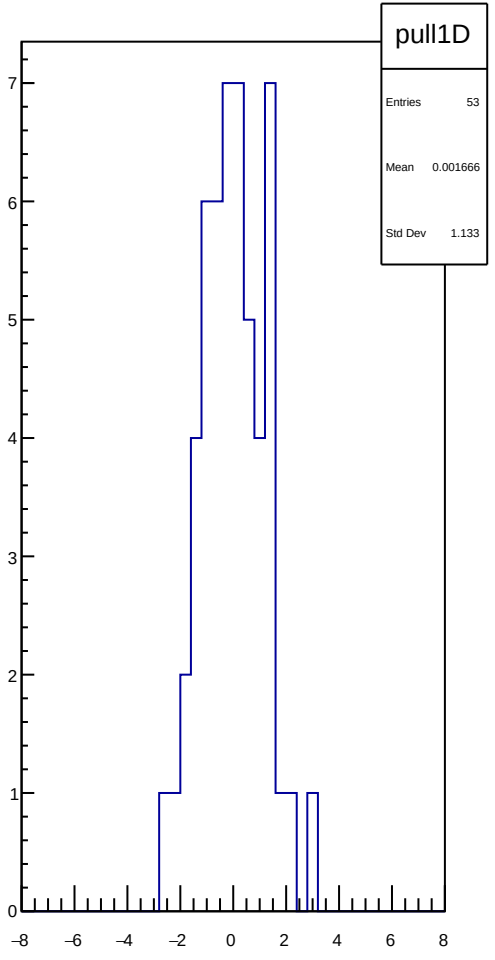
5966. 6
5966. 7

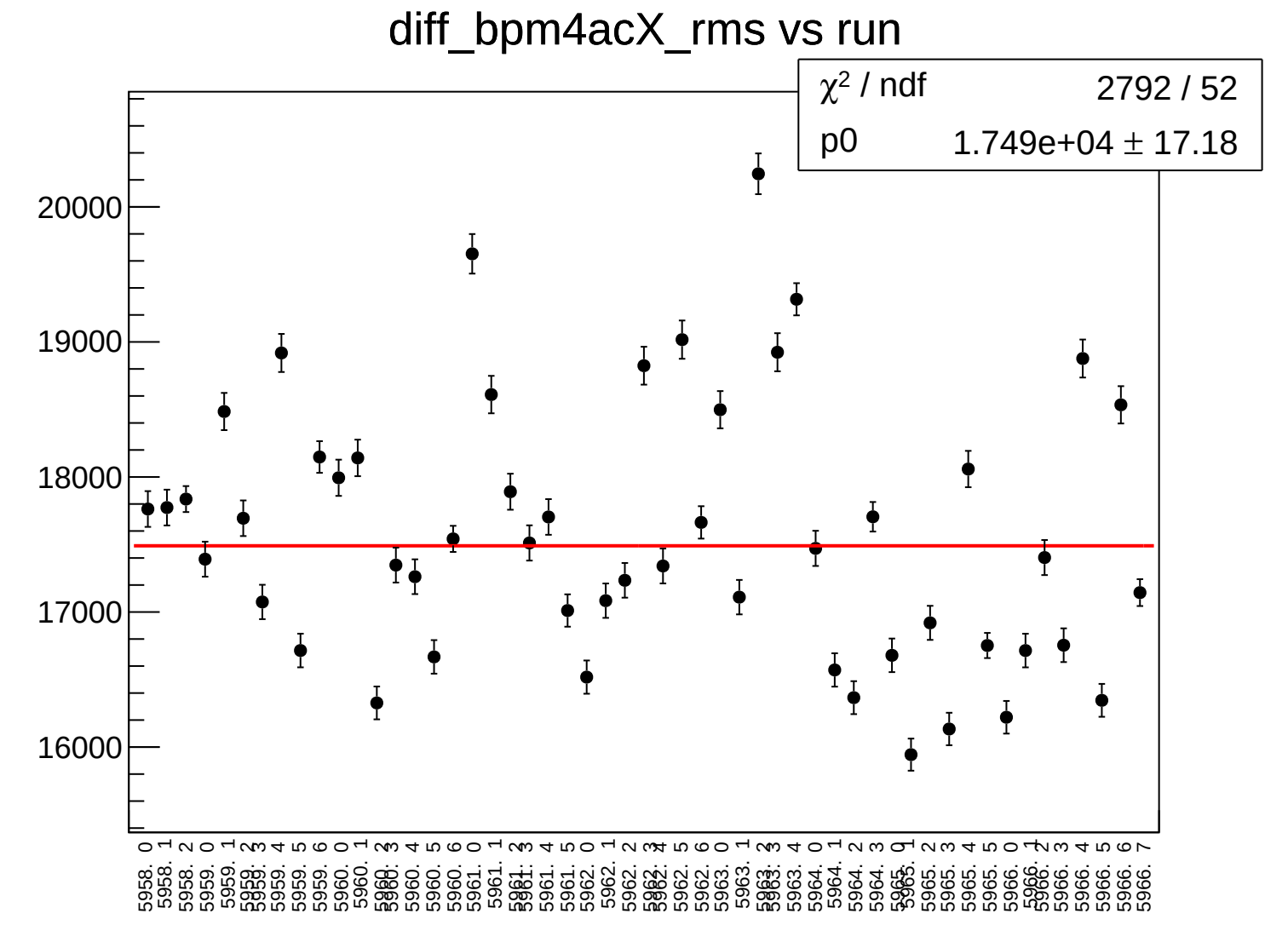

diff_bpm4eY_mean vs run
χ² / ndf 48.94 / 52
p0 −6.577 ± 9.81
200
100
0
−100
−200
pull
Entries 53
Mean −1005
Std Dev 1031
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

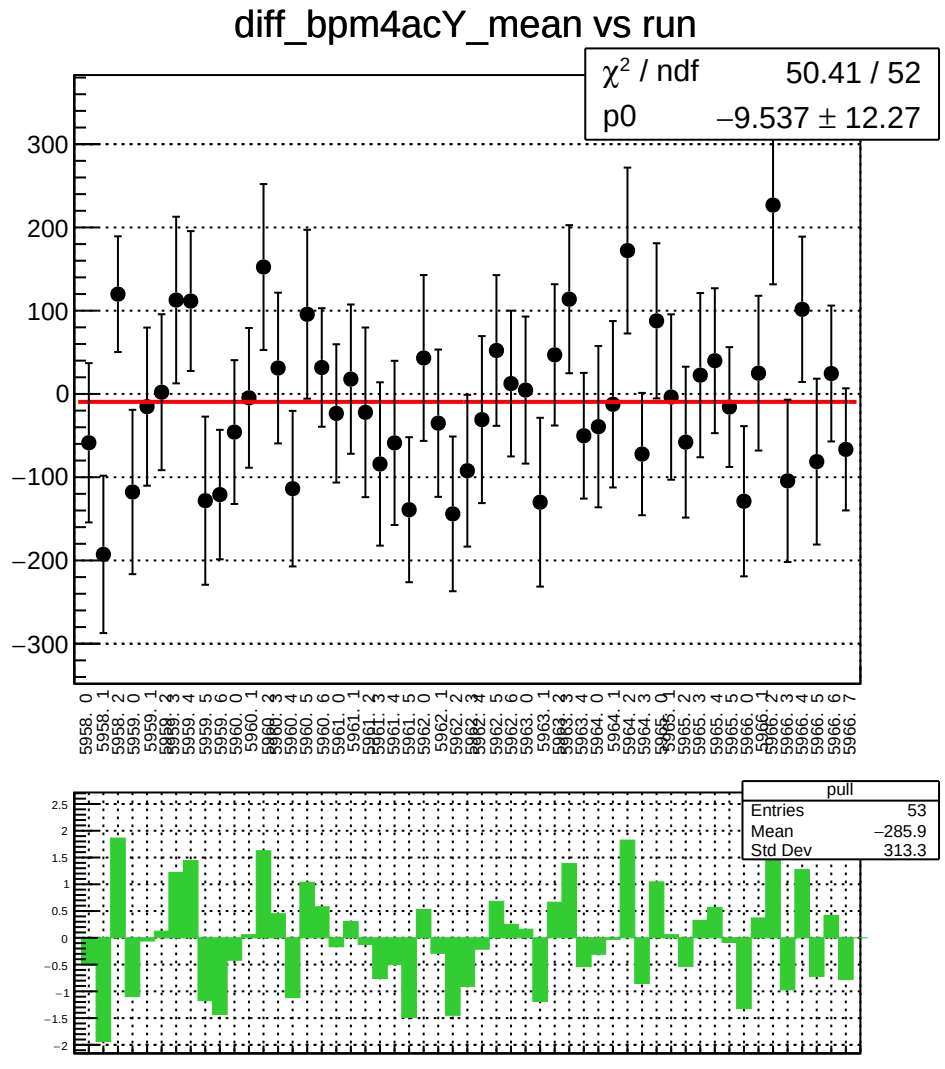

pull1D
Entries 53
Mean −0.002169
Std Dev 0.961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

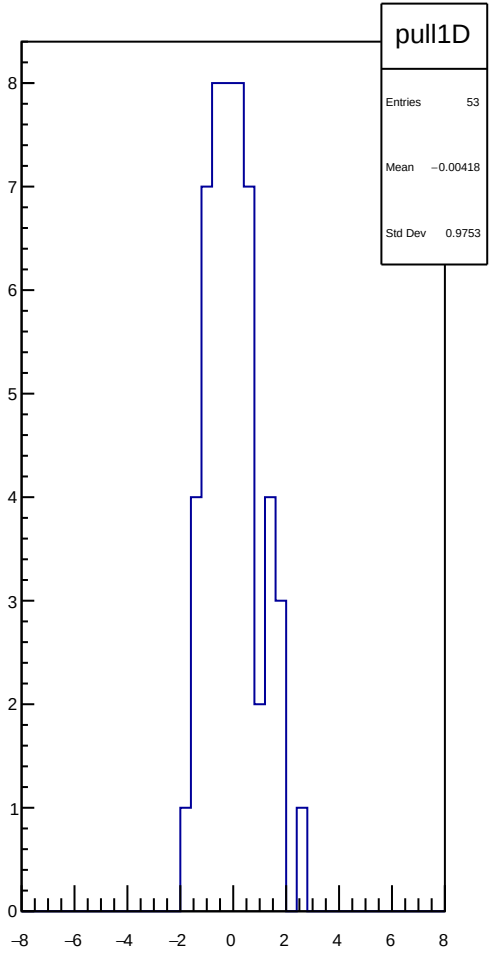

diff_bpm4eY_rms vs run
χ² / ndf 1557 / 52
p0 7068 ± 6.937
7800
7600
7400
7200
7000
6800
6600
6400
6200

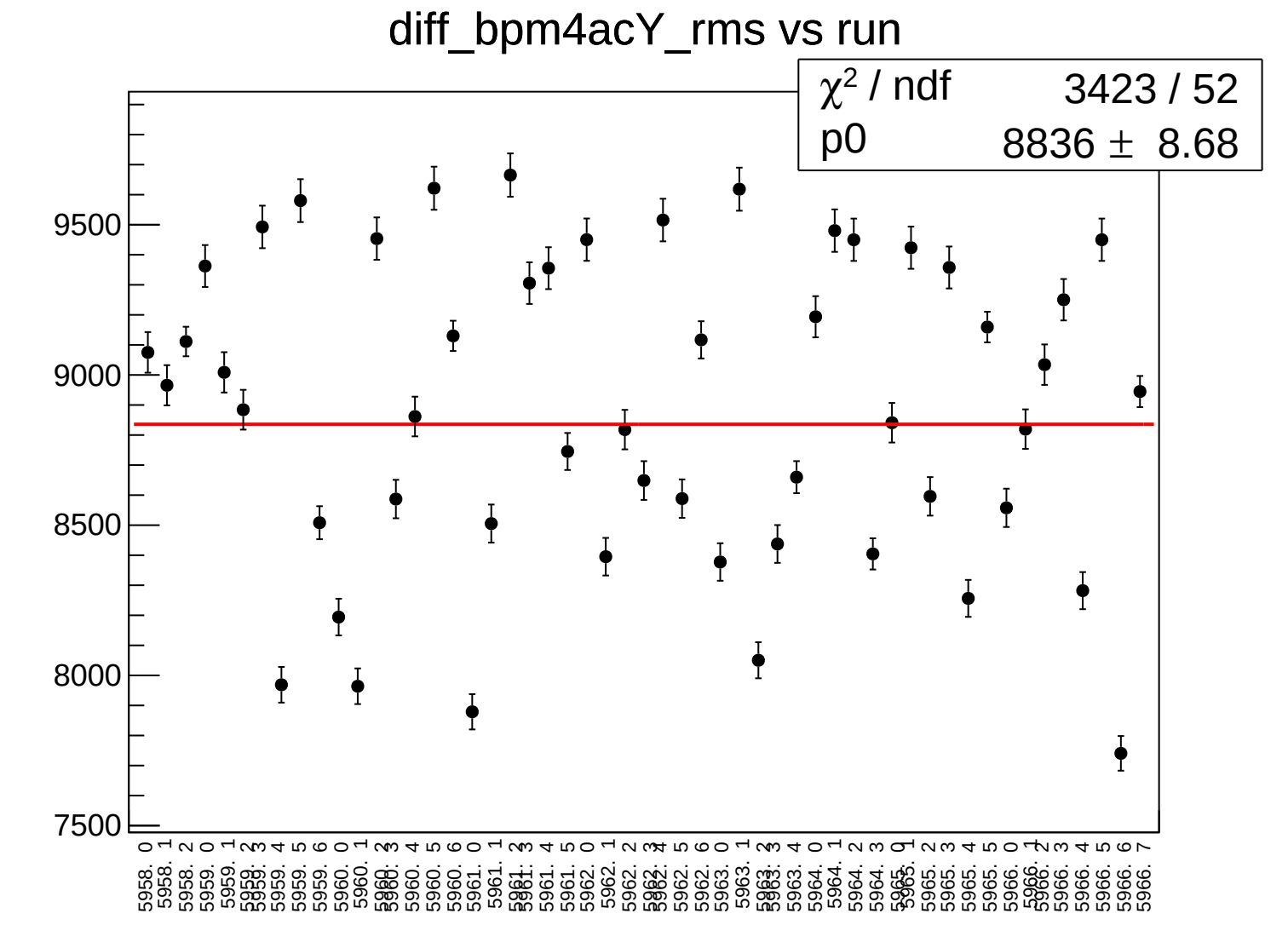

diff_bpm4acX_mean vs run
χ² / ndf 68.06 / 52
p0 −1.11 ± 24.29
pull
Entries 53
Mean −711.1
Std Dev 730.4

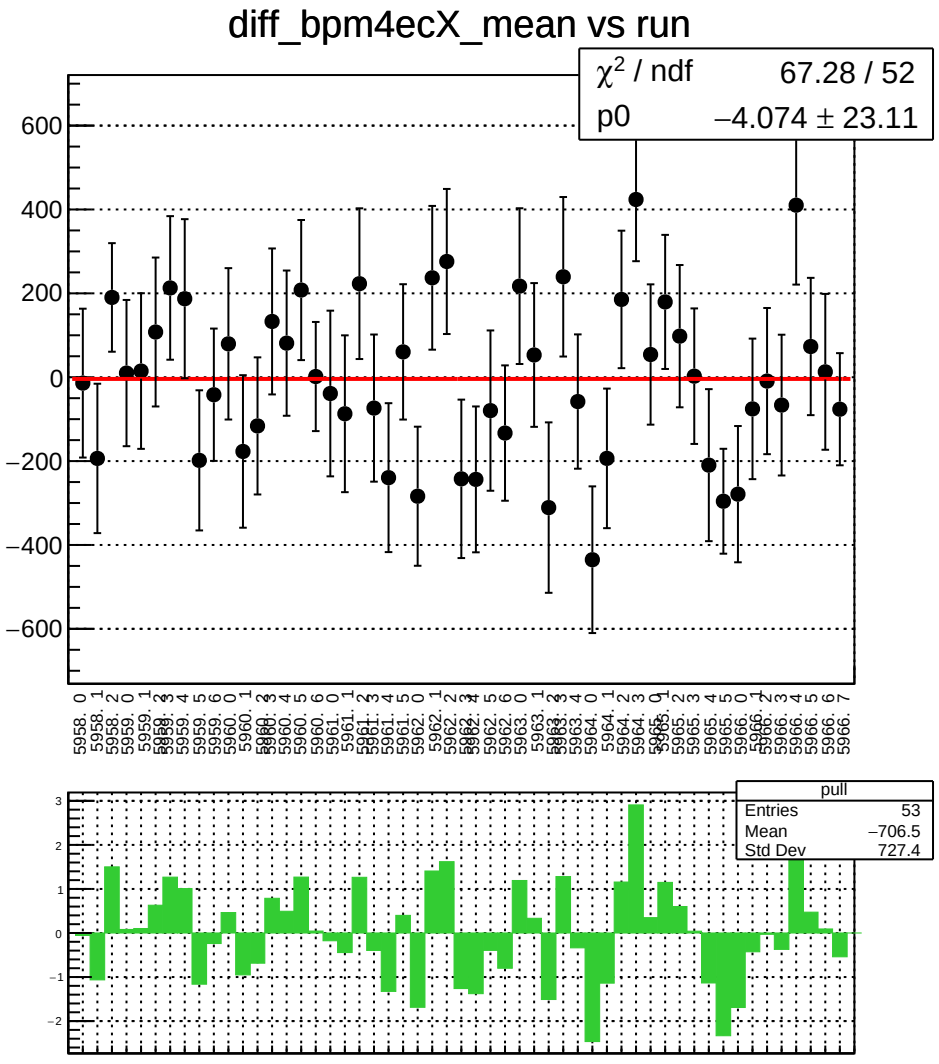

pull1D
Entries 53
Mean 0.001666
Std Dev 1.133

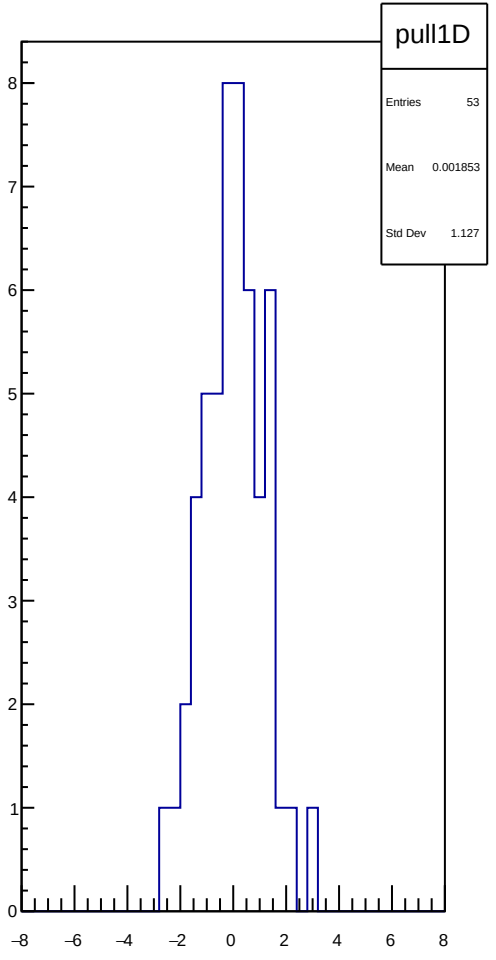

diff_bpm4acX_rms vs run
χ² / ndf 2792 / 52
p0 1.749e+04 ± 17.18
20000
19000
18000
17000
16000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

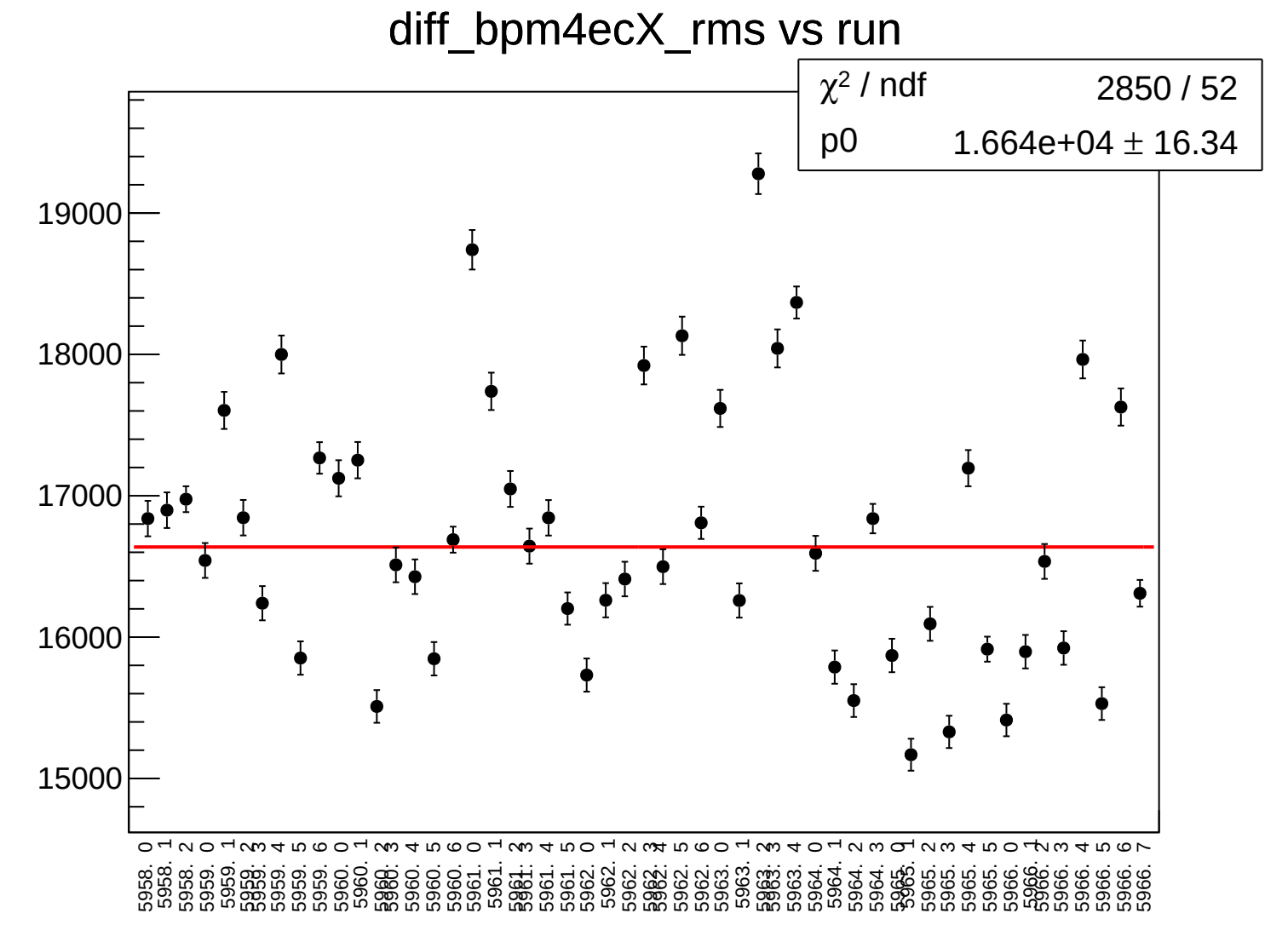

diff_bpm4acY_mean vs run
χ² / ndf 50.41 / 52
p0 −9.537 ± 12.27
pull
Entries 53
Mean −285.9
Std Dev 313.3

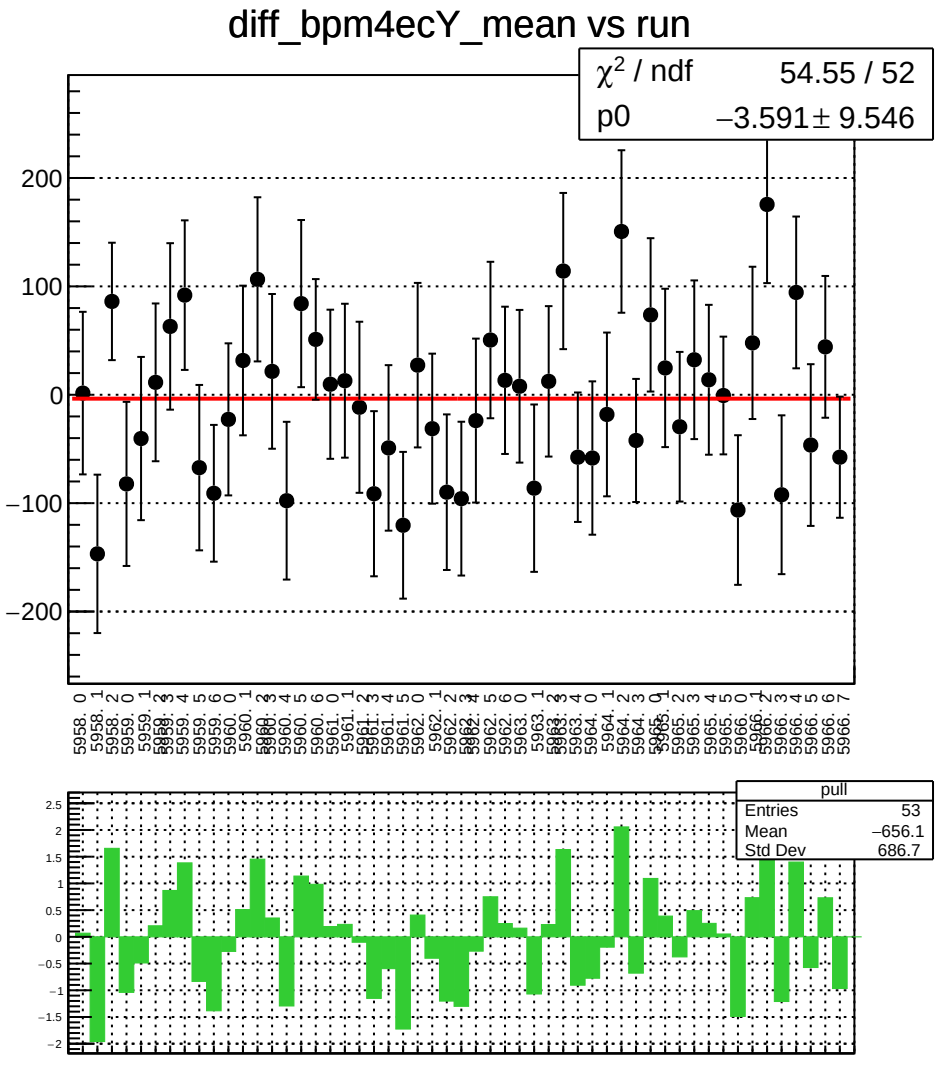

pull1D
Entries 53
Mean −0.00418
Std Dev 0.9753

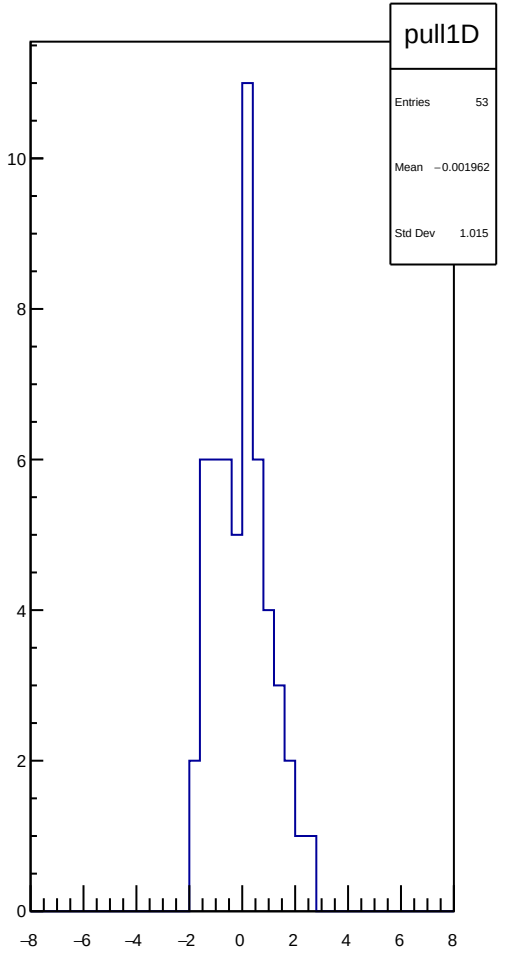

diff_bpm4acY_rms vs run
χ² / ndf 3423 / 52
p0 8836 ± 8.68
9500
9000
8500
8000
7500

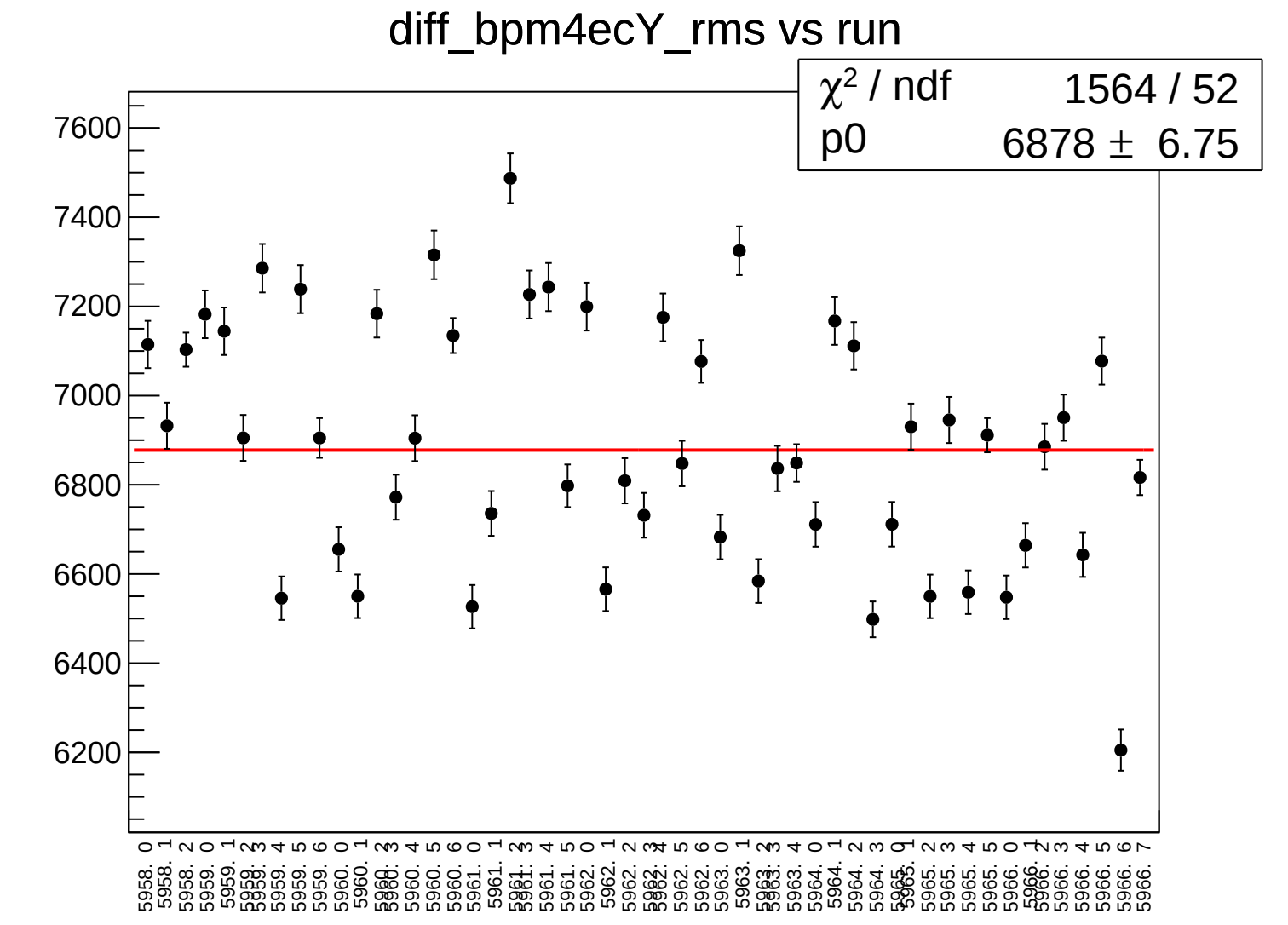

diff_bpm4ecX_mean vs run
χ² / ndf 67.28 / 52
p0 −4.074 ± 23.11
pull
Entries 53
Mean −706.5
Std Dev 727.4

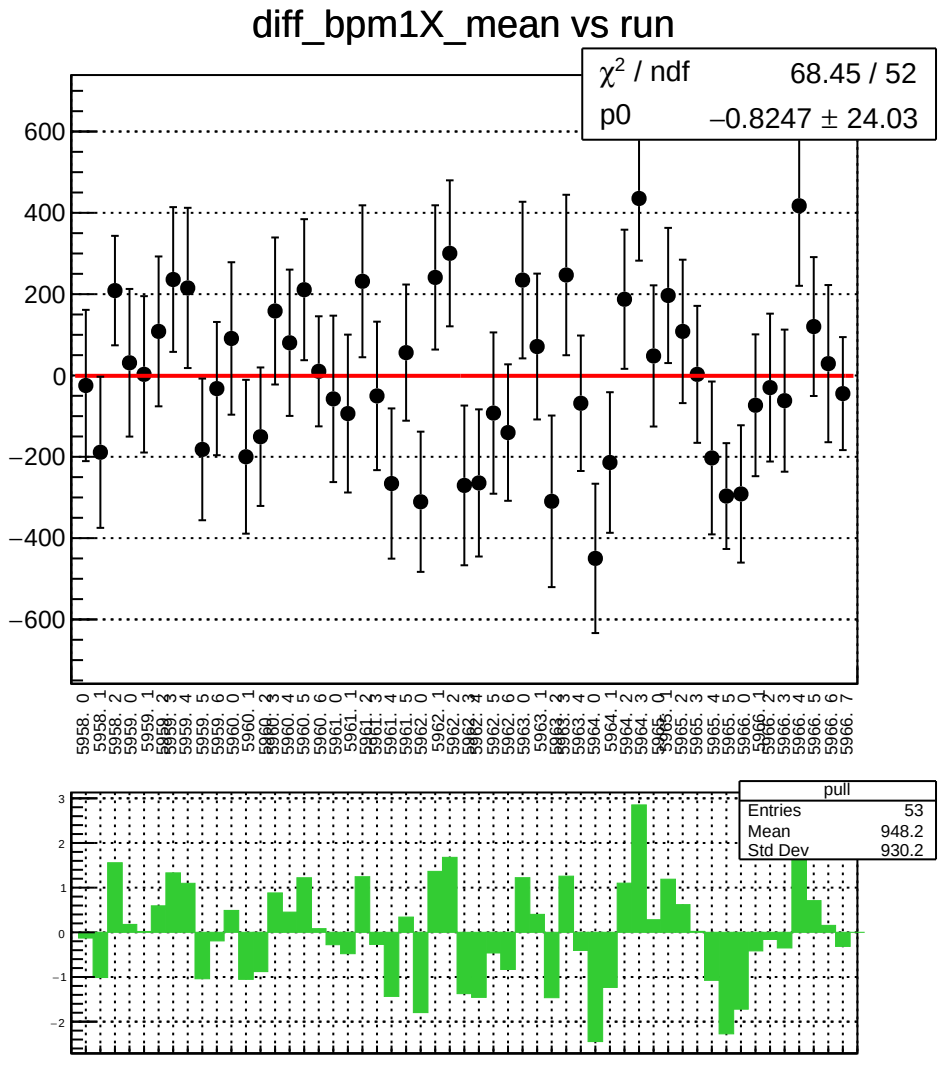

pull1D
Entries 53
Mean 0.001853
Std Dev 1.127

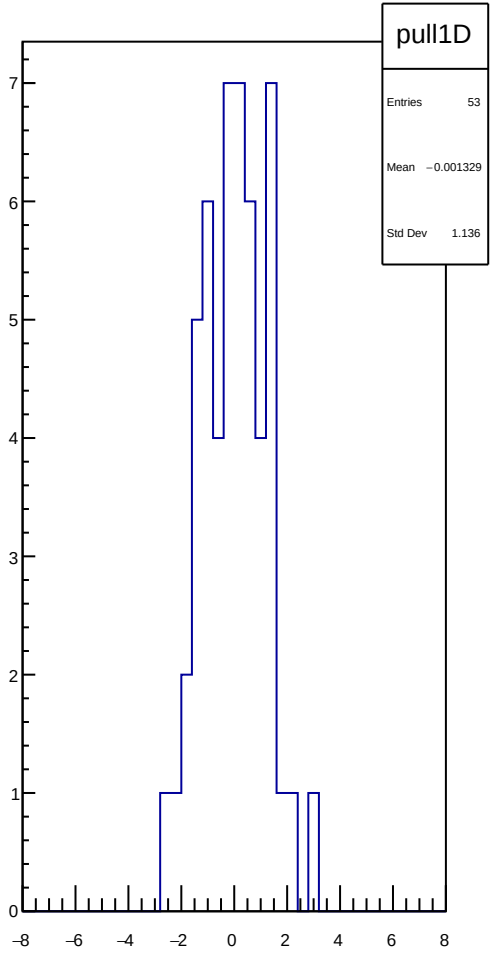

diff_bpm4ecX_rms vs run
χ² / ndf 2850 / 52
p0 1.664e+04 ± 16.34
19000
18000
17000
16000
15000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

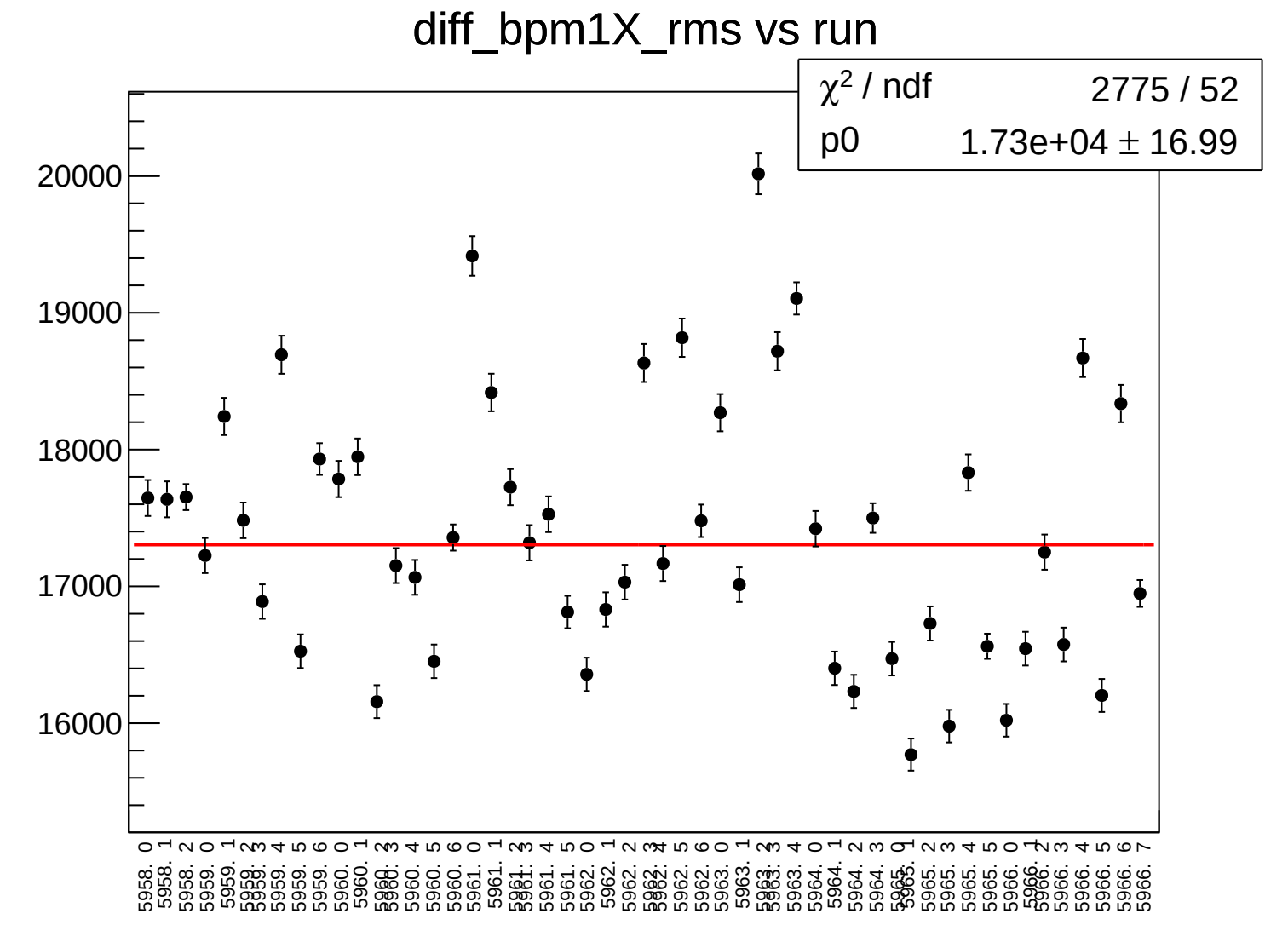

diff_bpm4ecY_mean vs run
χ² / ndf 54.55 / 52
p0 −3.591 ± 9.546
200
100
0
−100
−200
pull
Entries 53
Mean −656.1
Std Dev 686.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

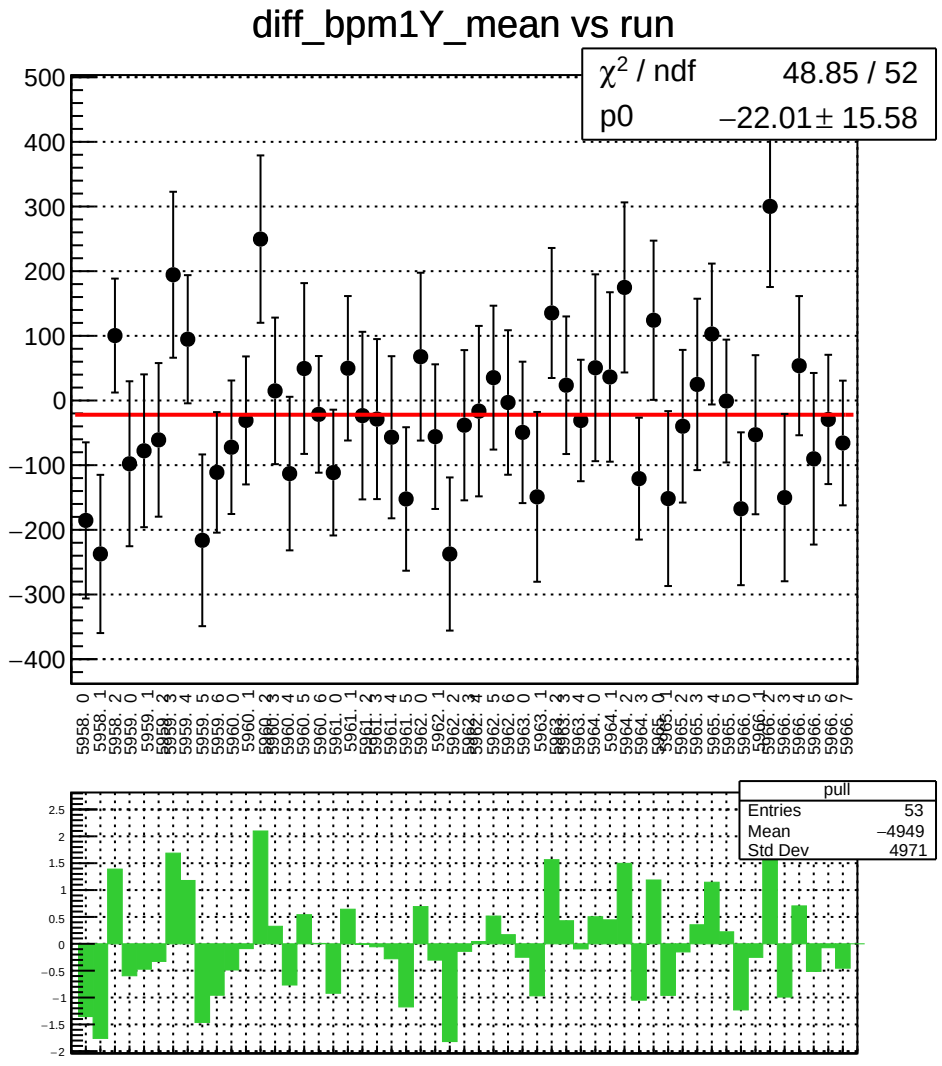

pull1D
Entries 53
Mean −0.001962
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

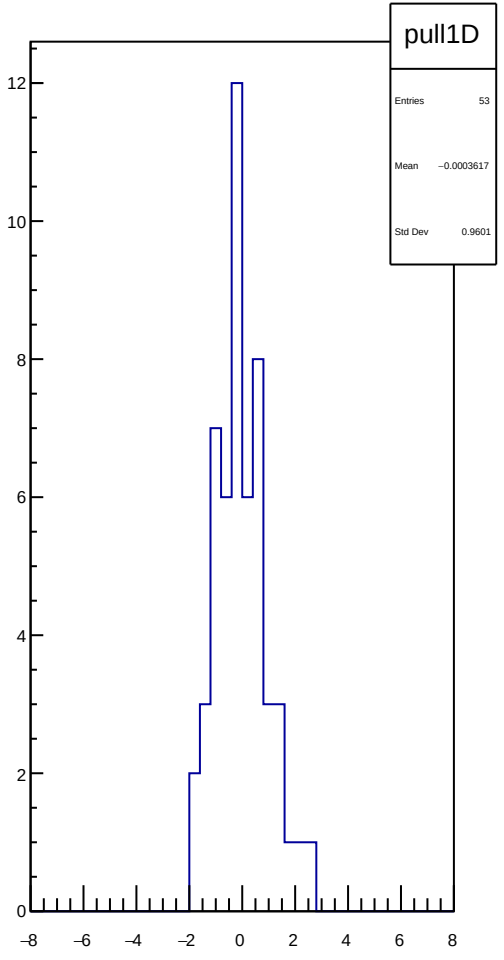

diff_bpm4ecY_rms vs run
χ² / ndf 1564 / 52
p0 6878 ± 6.75
7600
7400
7200
7000
6800
6600
6400
6200

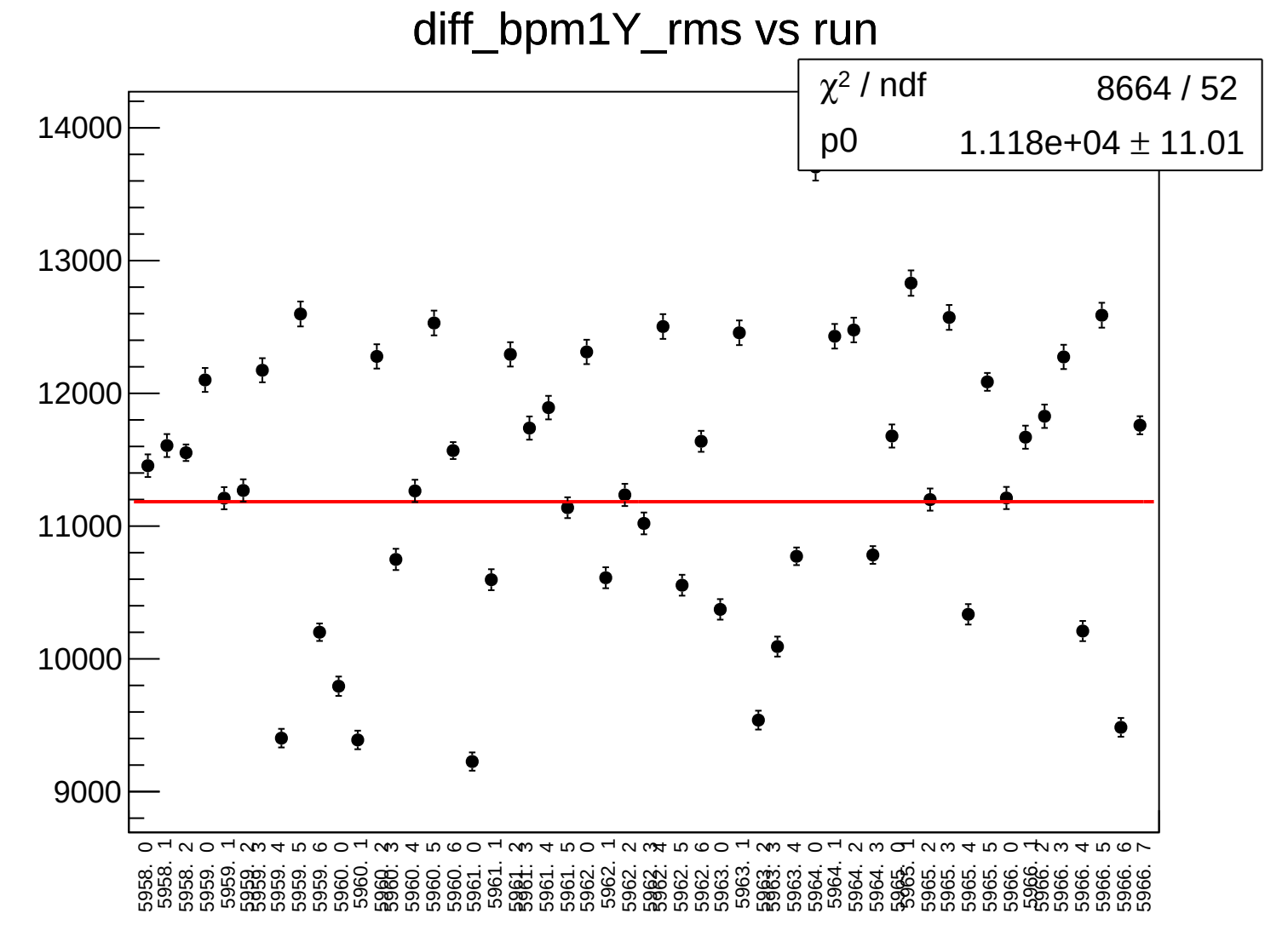

diff_bpm1X_mean vs run
χ² / ndf 68.45 / 52
p0 −0.8247 ± 24.03
pull
Entries 53
Mean 948.2
Std Dev 930.2

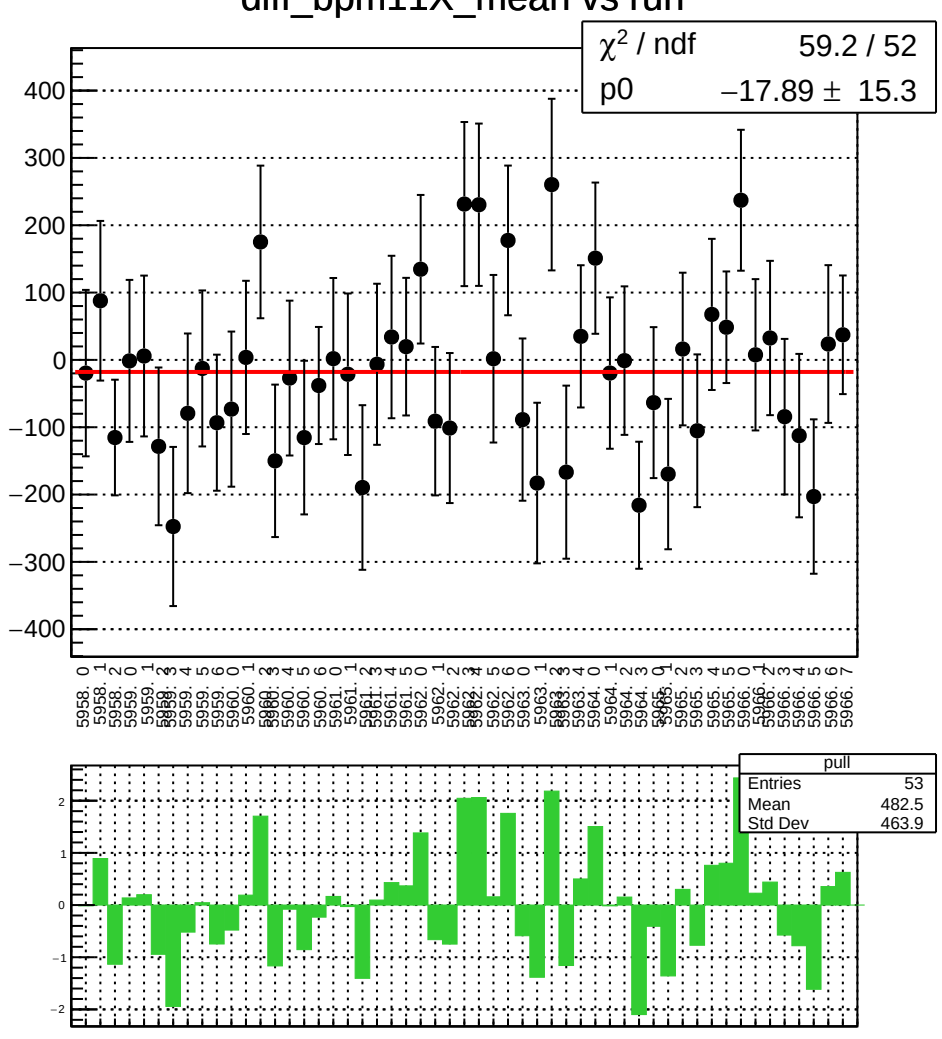

pull1D
Entries 53
Mean −0.001329
Std Dev 1.136

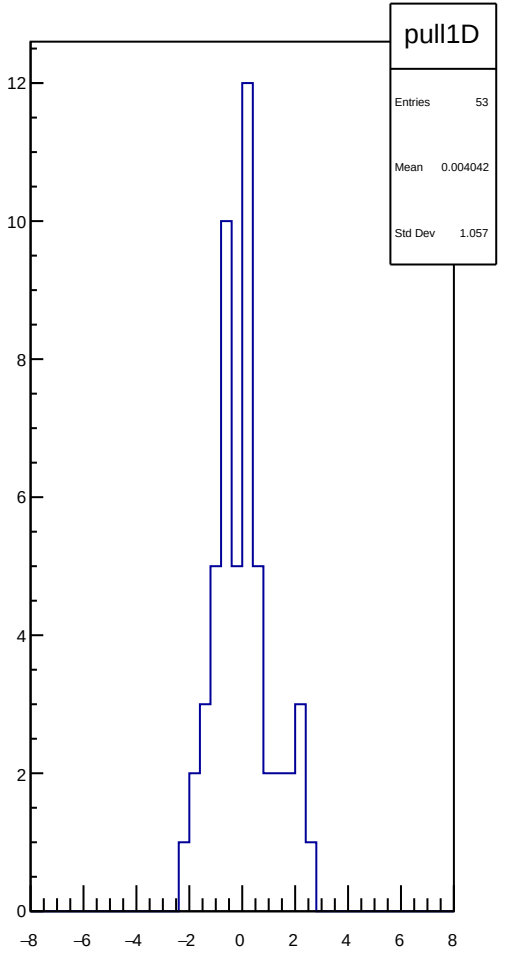

diff_bpm1X_rms vs run
χ² / ndf 2775 / 52
p0 1.73e+04 ± 16.99
20000
19000
18000
17000
16000

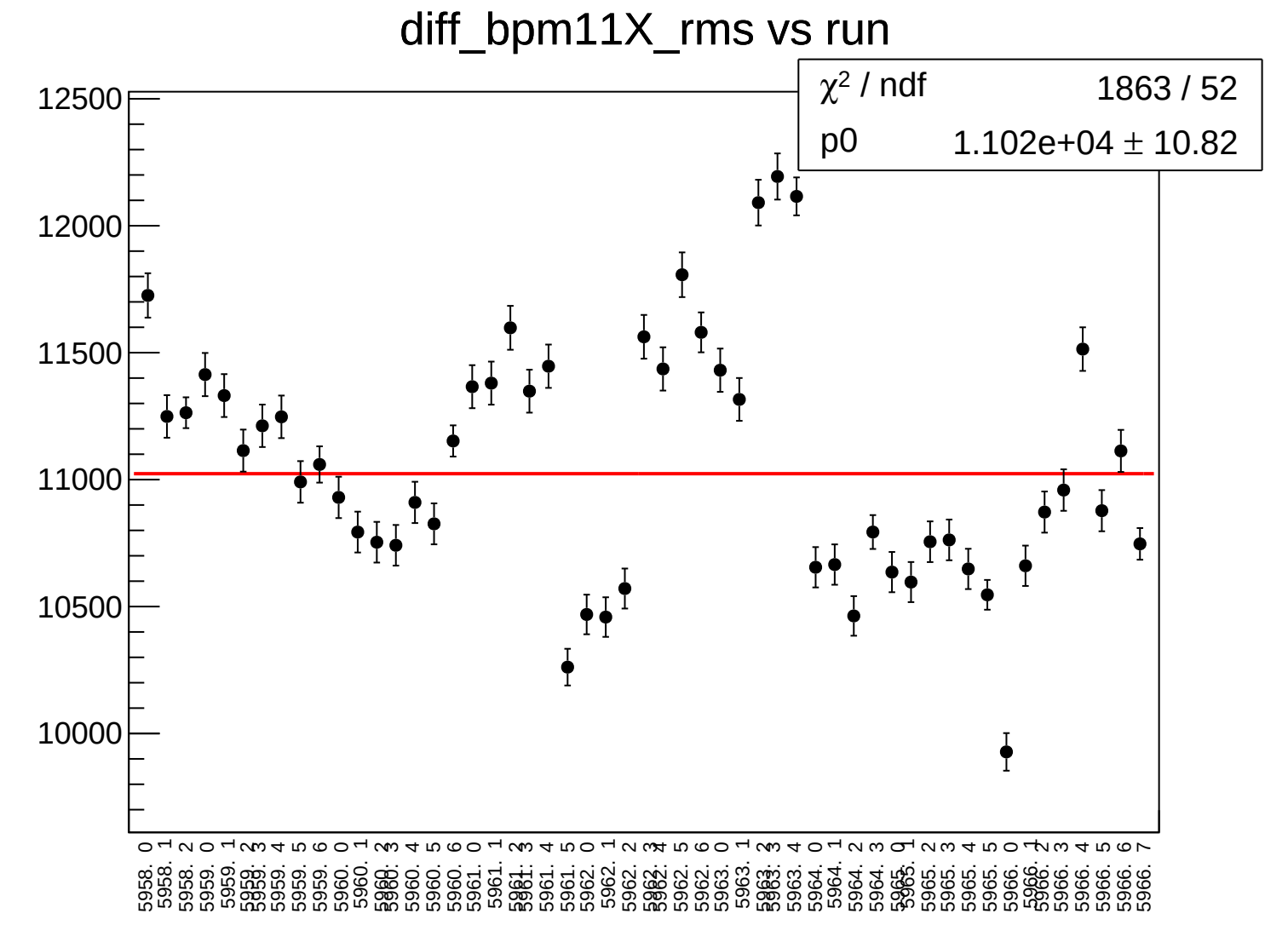

diff_bpm1Y_mean vs run
χ² / ndf 48.85 / 52
p0 −22.01± 15.58
pull
Entries 53
Mean −4949
Std Dev 4971

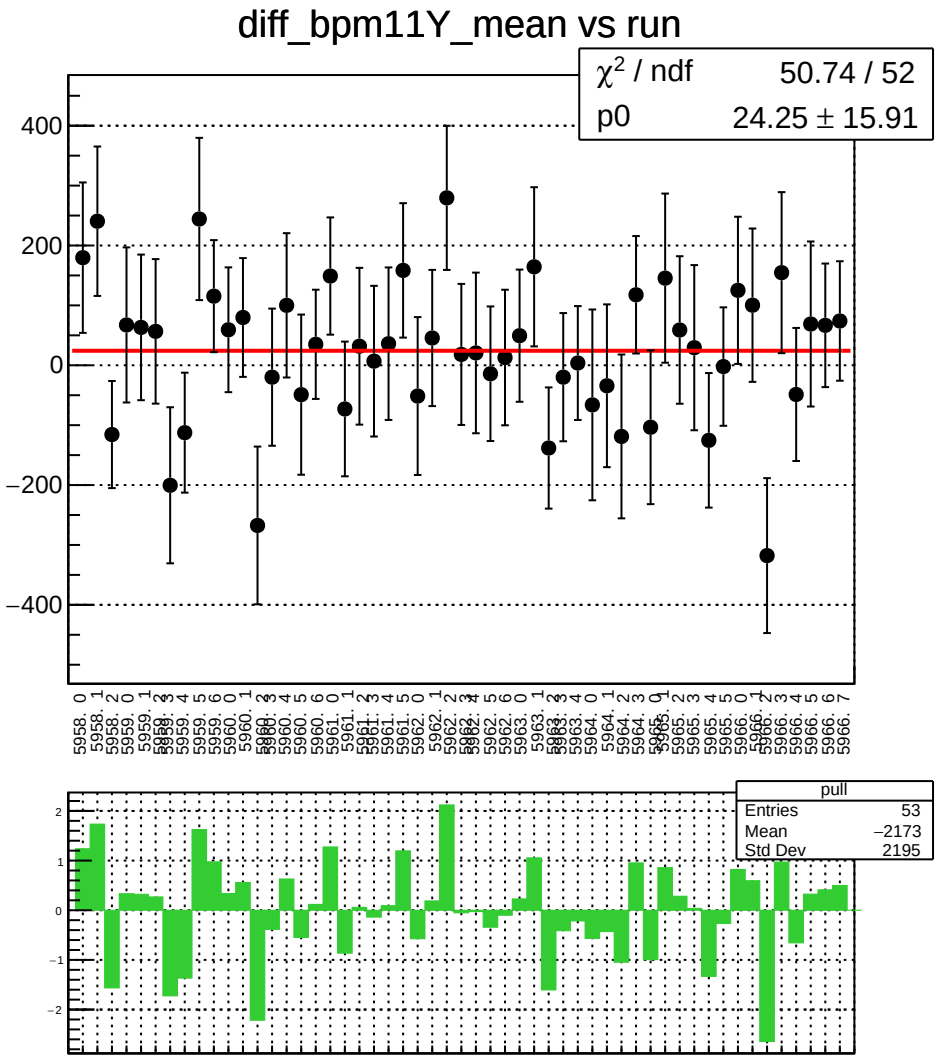

pull1D
Entries 53
Mean −0.0003617
Std Dev 0.9601

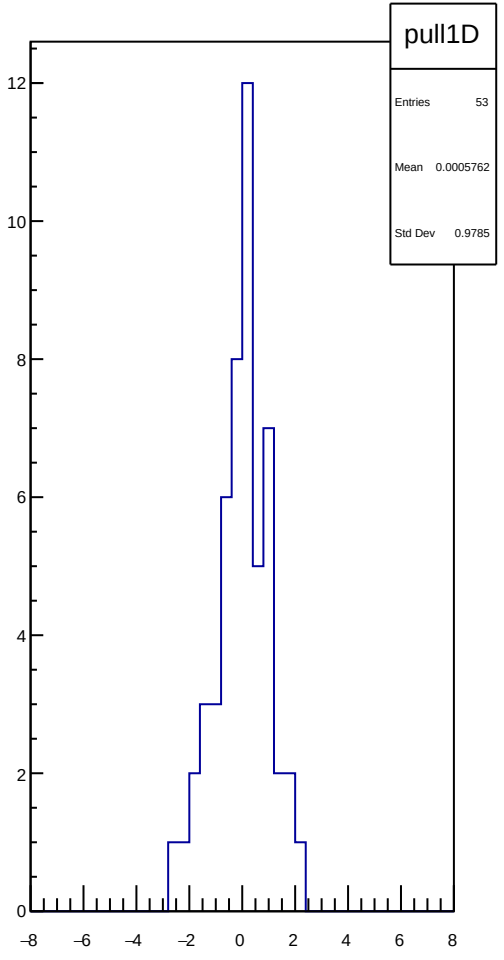

diff_bpm1Y_rms vs run
χ² / ndf 8664 / 52
p0 1.118e+04 ± 11.01
14000
13000
12000
11000
10000
9000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

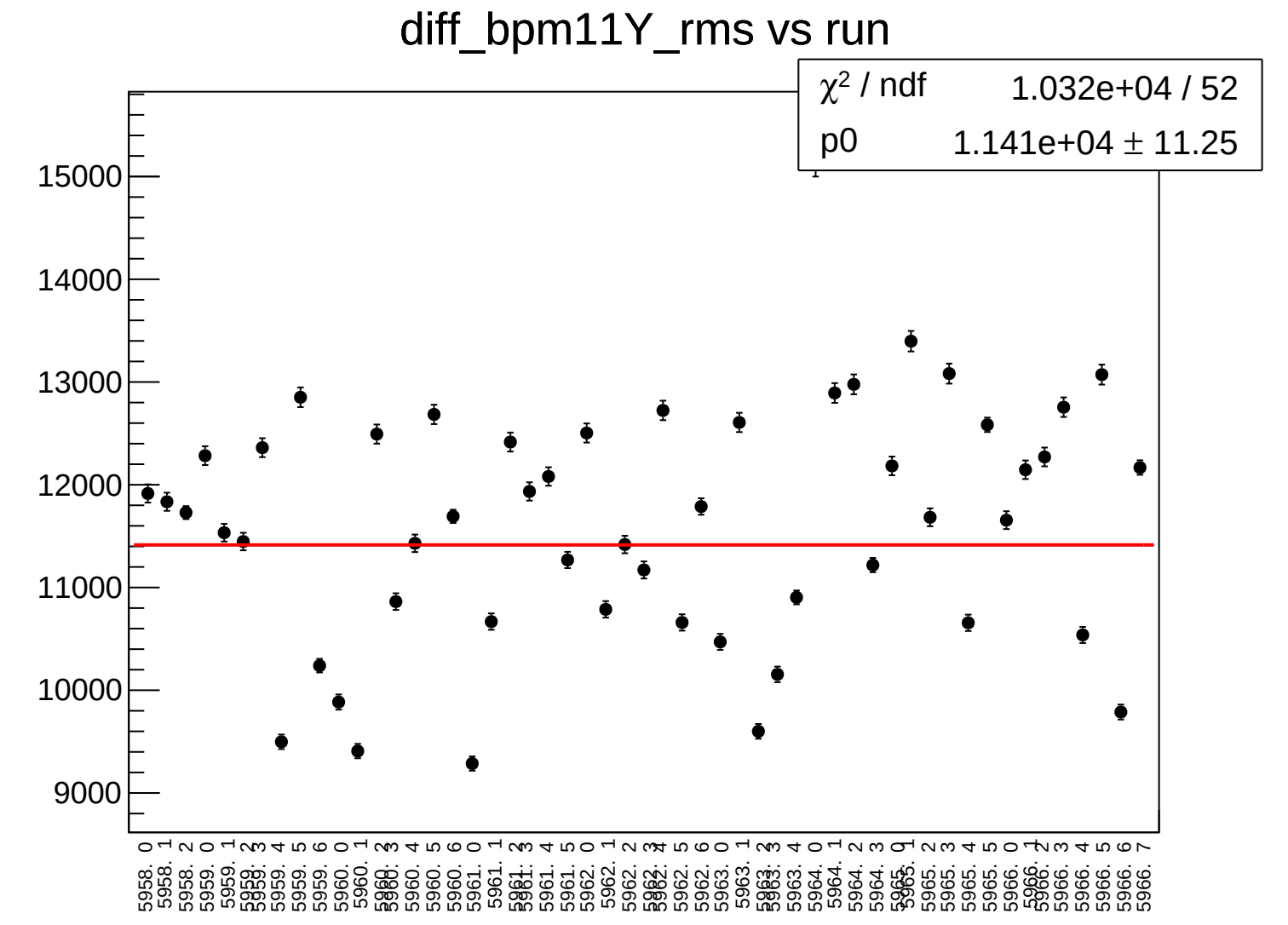

diff_bpm11X_mean vs run
χ^2 / ndf 59.2 / 52
p0 −17.89 ± 15.3
pull
Entries 53
Mean 482.5
Std Dev 463.9


pull1D
Entries 53
Mean 0.004042
Std Dev 1.057


diff_bpm11X_rms vs run
χ² / ndf 1863 / 52
p0 1.102e+04 ± 10.82
12500
12000
11500
11000
10500
10000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7


diff_bpm11Y_mean vs run
χ² / ndf 50.74 / 52
p0 24.25 ± 15.91
400
200
0
−200
−400
pull
Entries 53
Mean −2173
Std Dev 2195
2
1
0
−1
−2


pull1D
Entries 53
Mean 0.0005762
Std Dev 0.9785
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm11Y_rms vs run
χ² / ndf 1.032e+04 / 52
p0 1.141e+04 ± 11.25
15000
14000
13000
12000
11000
10000
9000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
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5960. 6
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5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
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5963. 2
5963. 3
5963. 4
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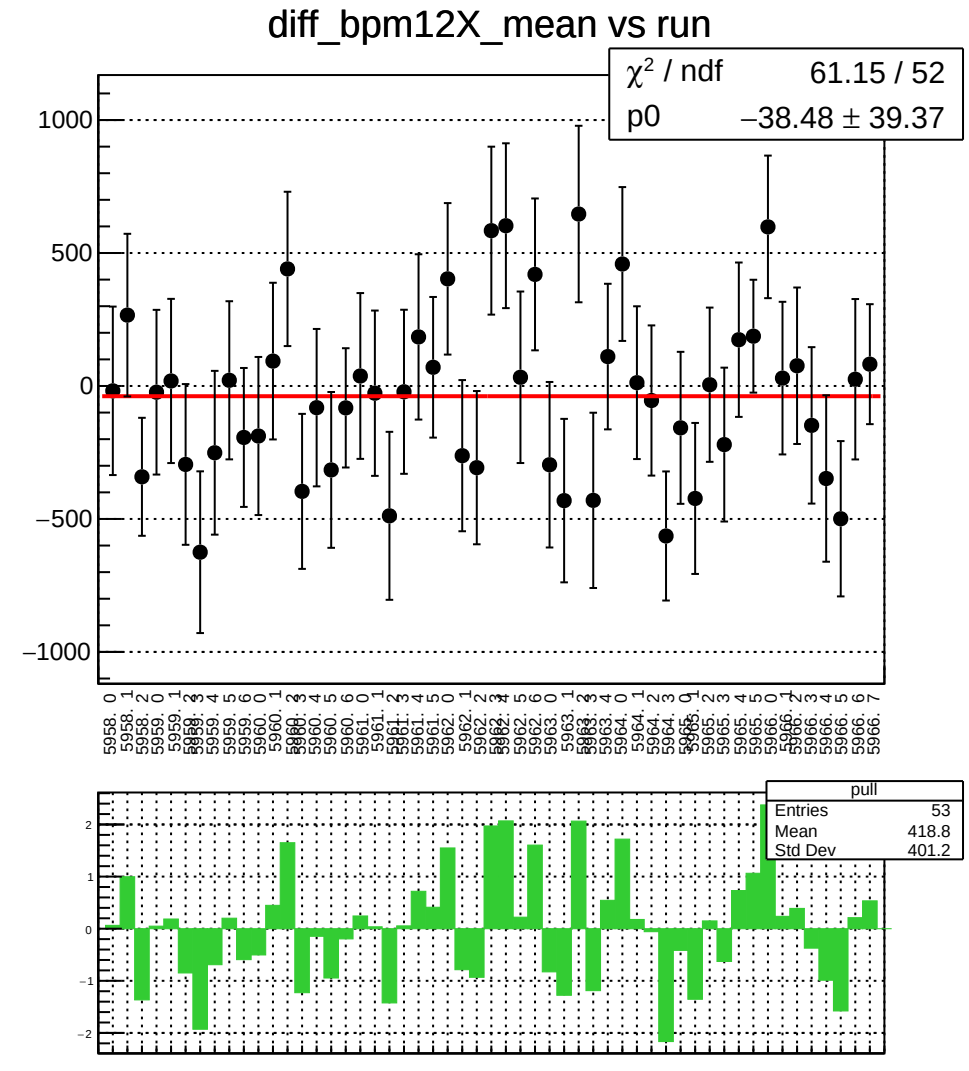
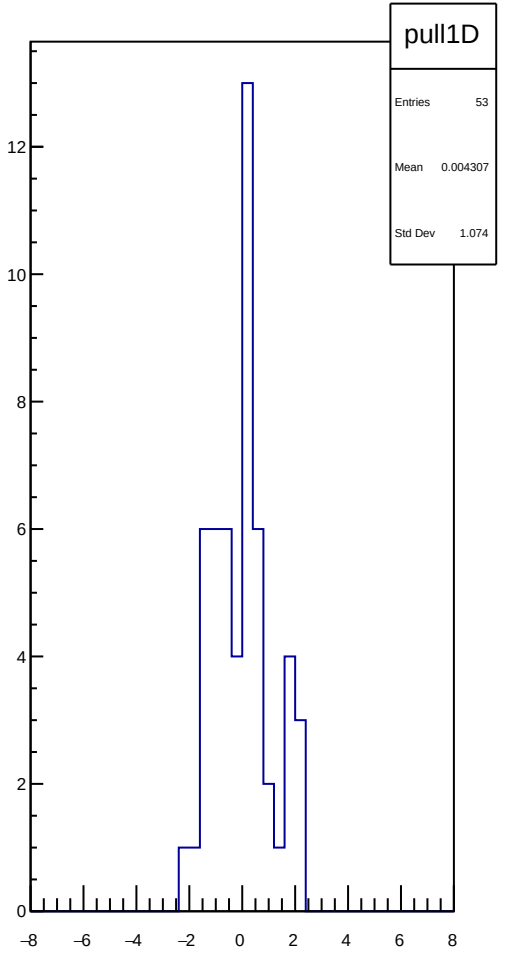
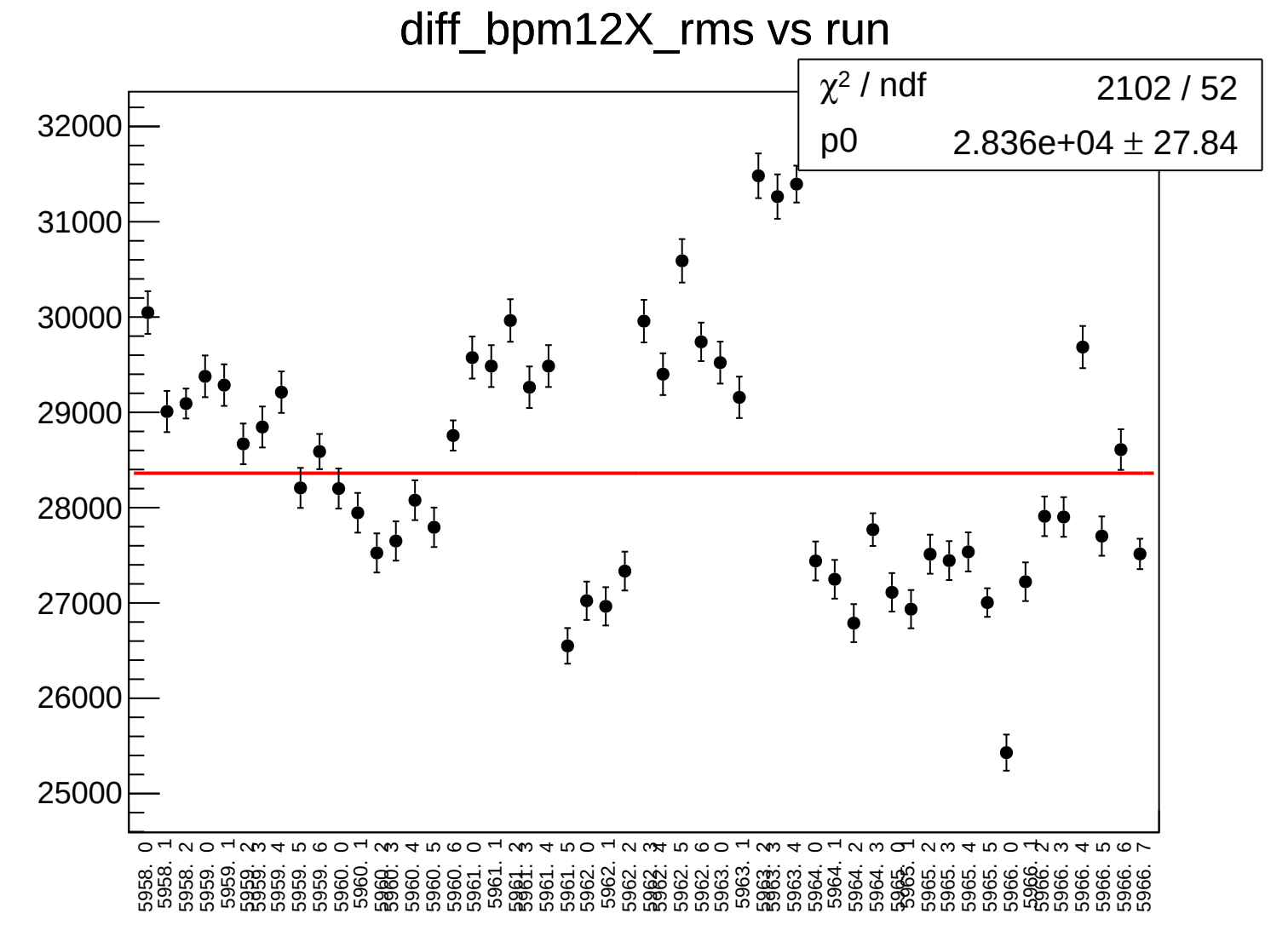
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7


diff_bpm12X_mean vs run
χ² / ndf 61.15 / 52
p0 −38.48 ± 39.37
1000
500
0
−500
−1000
pull
Entries 53
Mean 418.8
Std Dev 401.2
2
1
0
−1
−2


pull1D
Entries 53
Mean 0.004307
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm12X_rms vs run
χ² / ndf 2102 / 52
p0 2.836e+04 ± 27.84
32000
31000
30000
29000
28000
27000
26000
25000
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
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5962. 6
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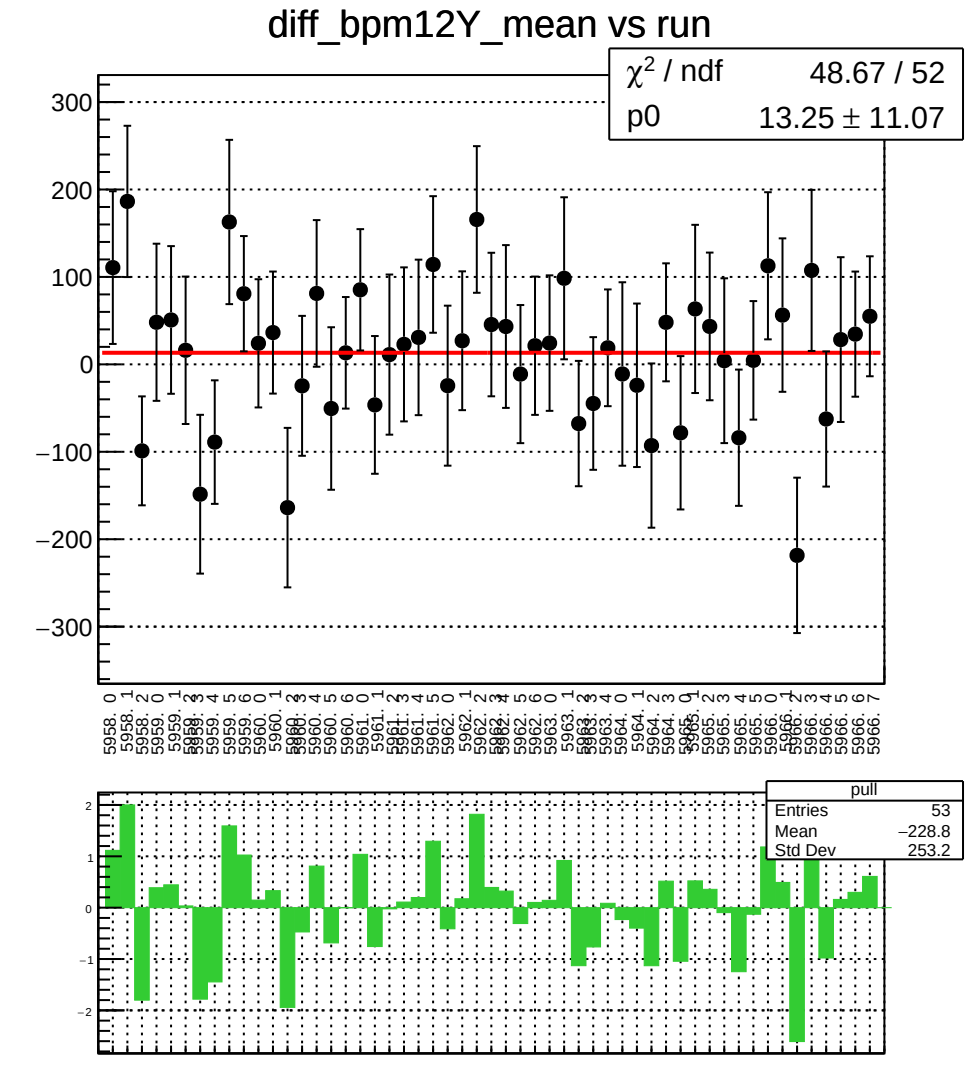
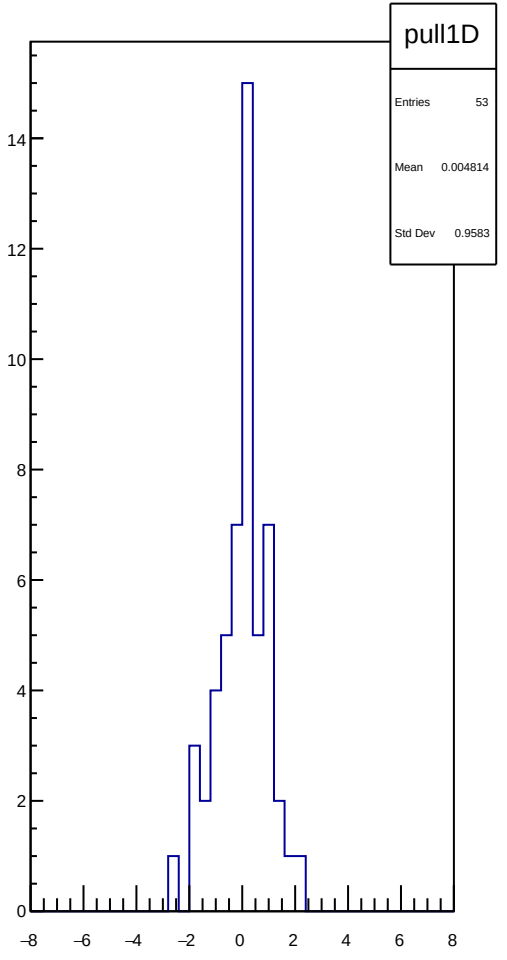
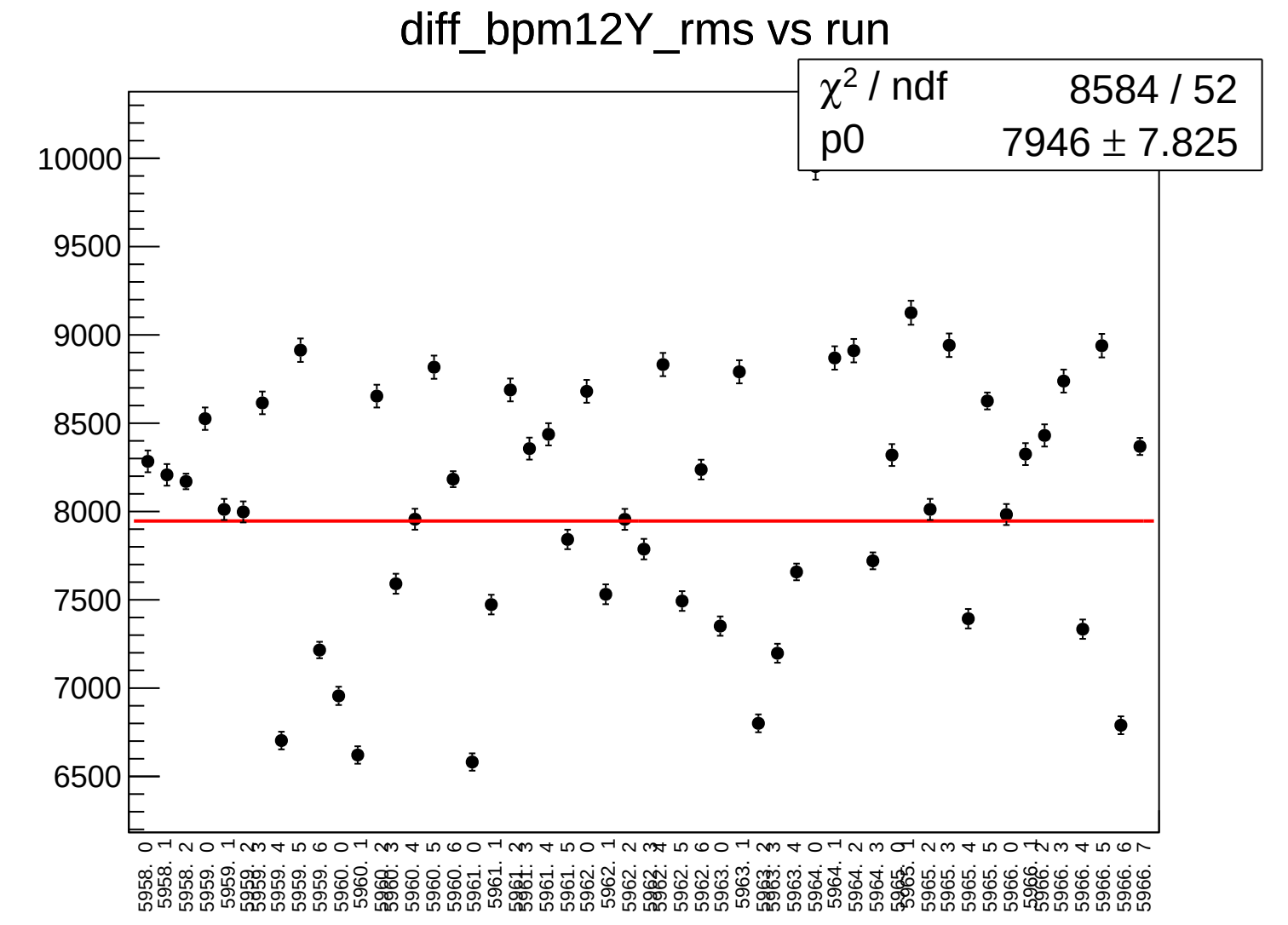
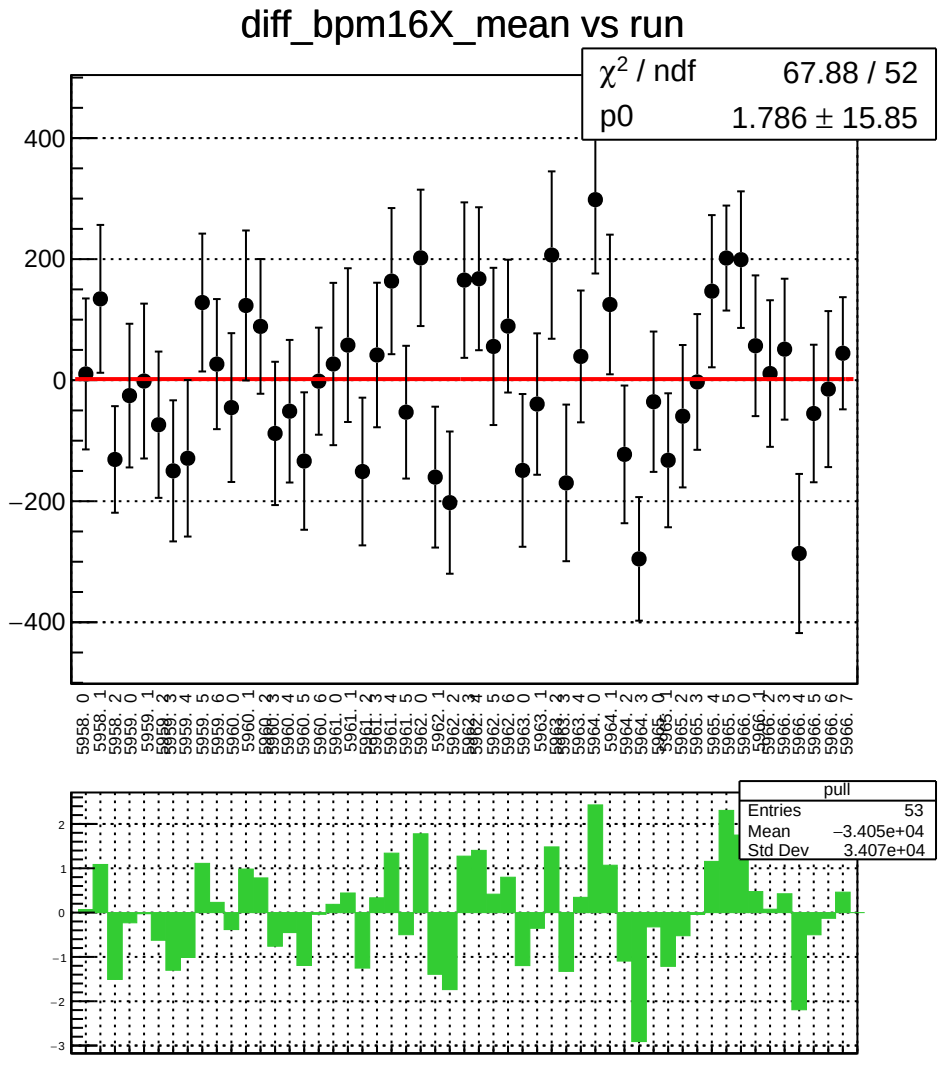
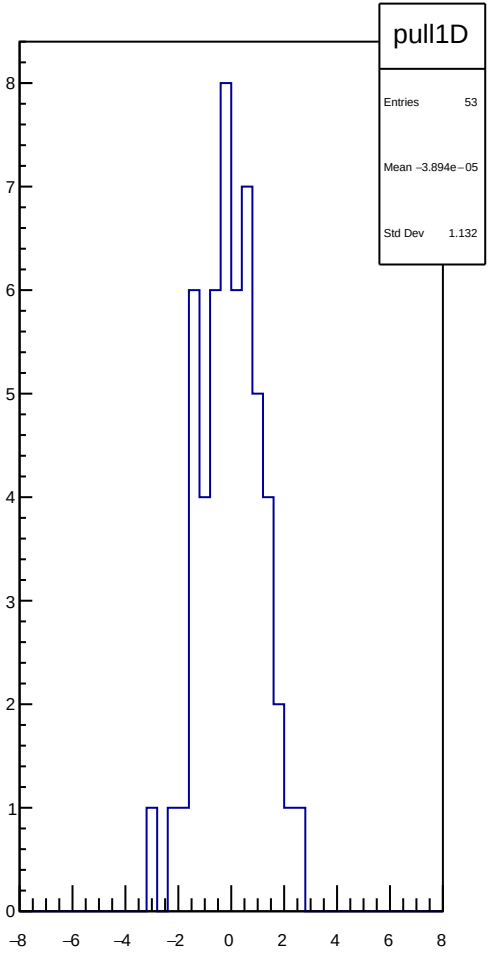
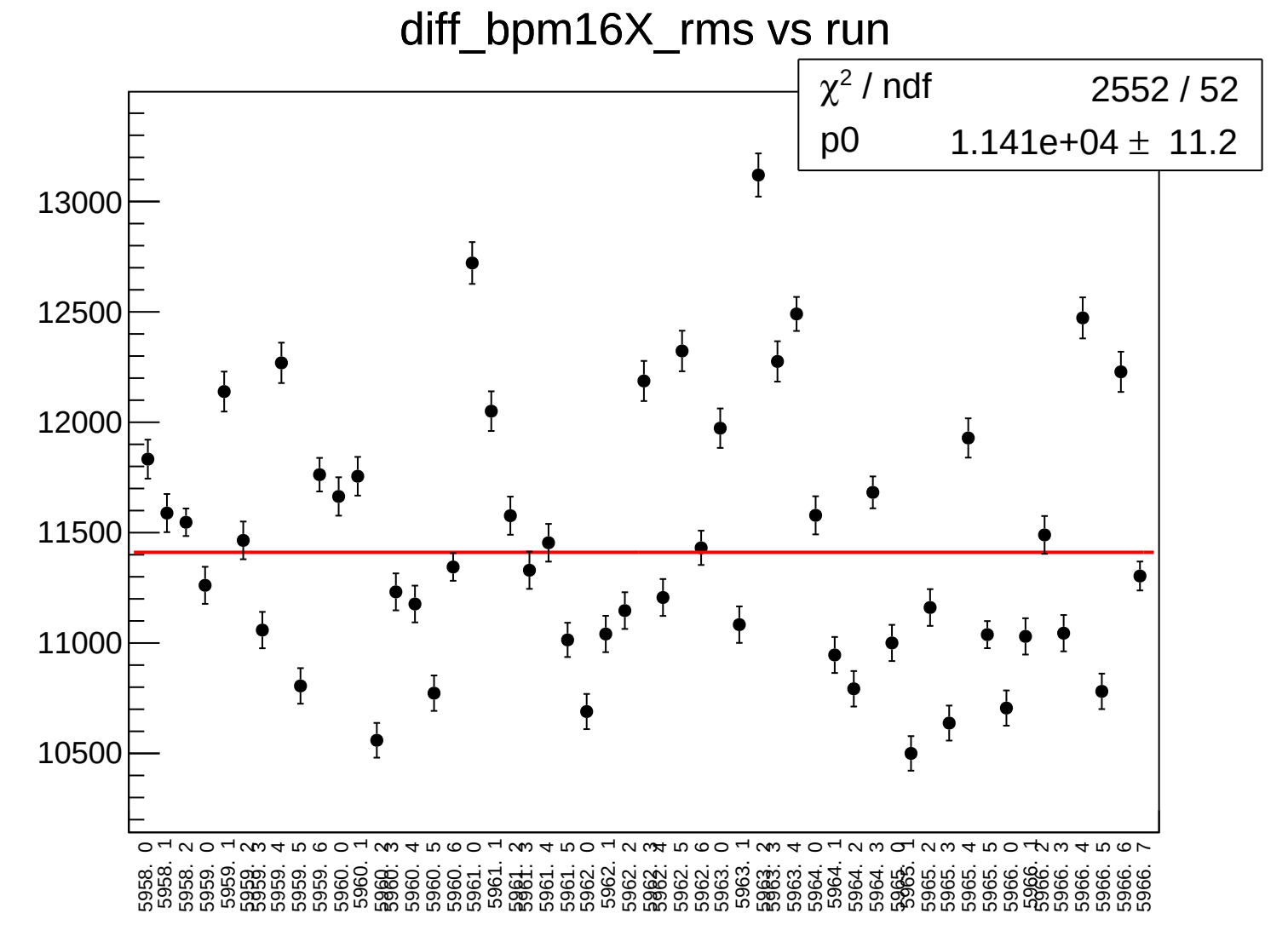

diff_bpm12Y_mean vs run
χ² / ndf 48.67 / 52
p0 13.25 ± 11.07
pull
Entries 53
Mean −228.8
Std Dev 253.2

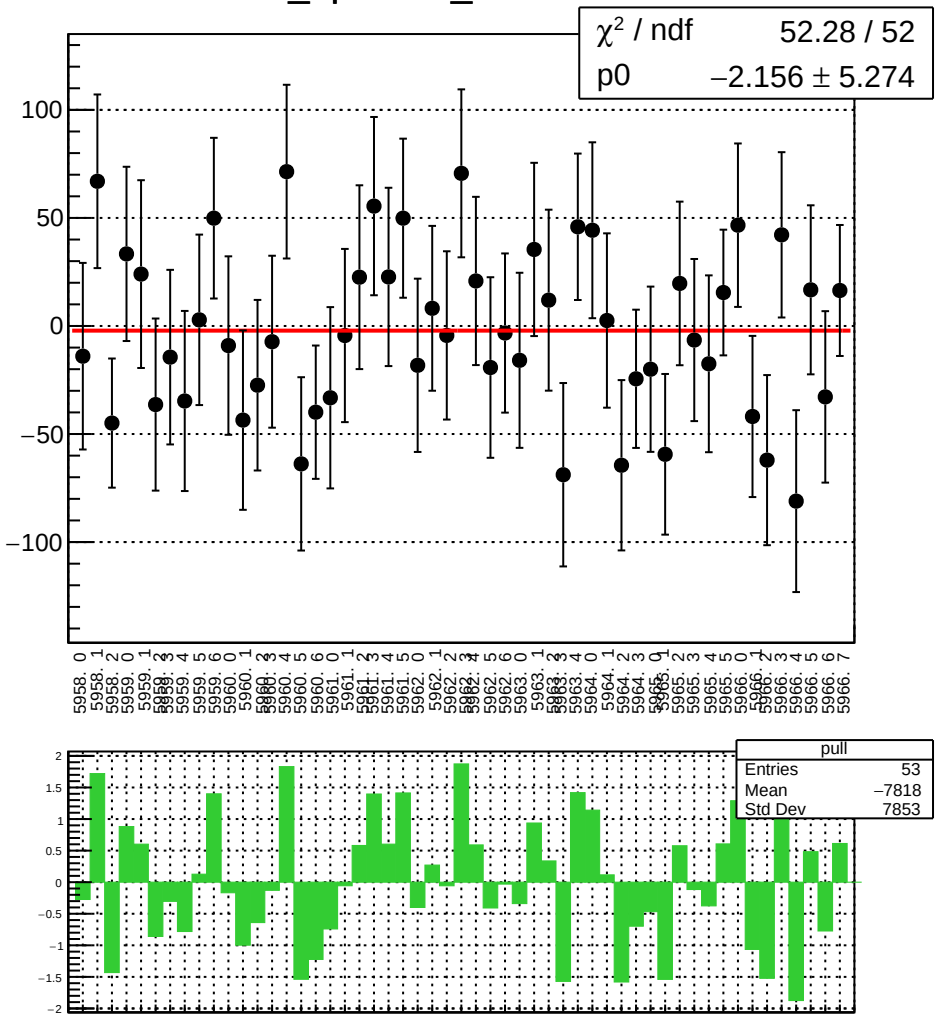

pull1D
Entries 53
Mean 0.004814
Std Dev 0.9583

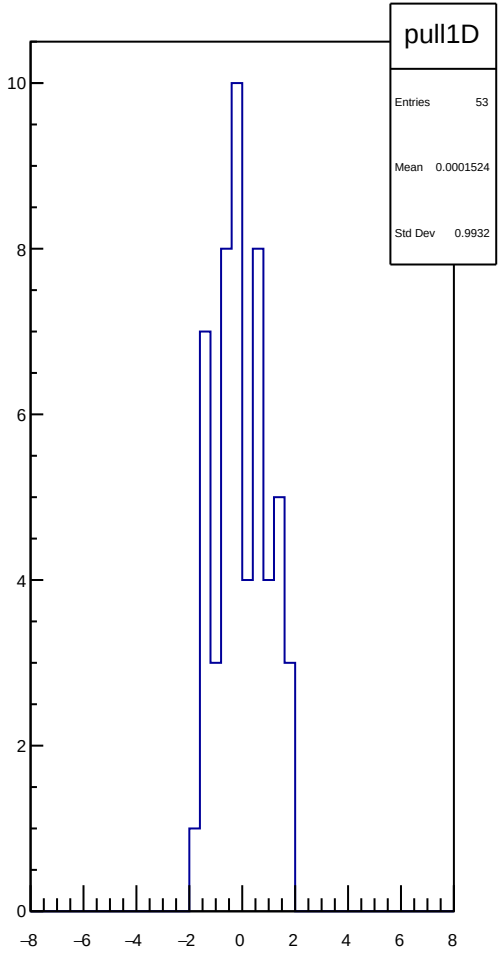

diff_bpm12Y_rms vs run
χ² / ndf 8584 / 52
p0 7946 ± 7.825
10000
9500
9000
8500
8000
7500
7000
6500

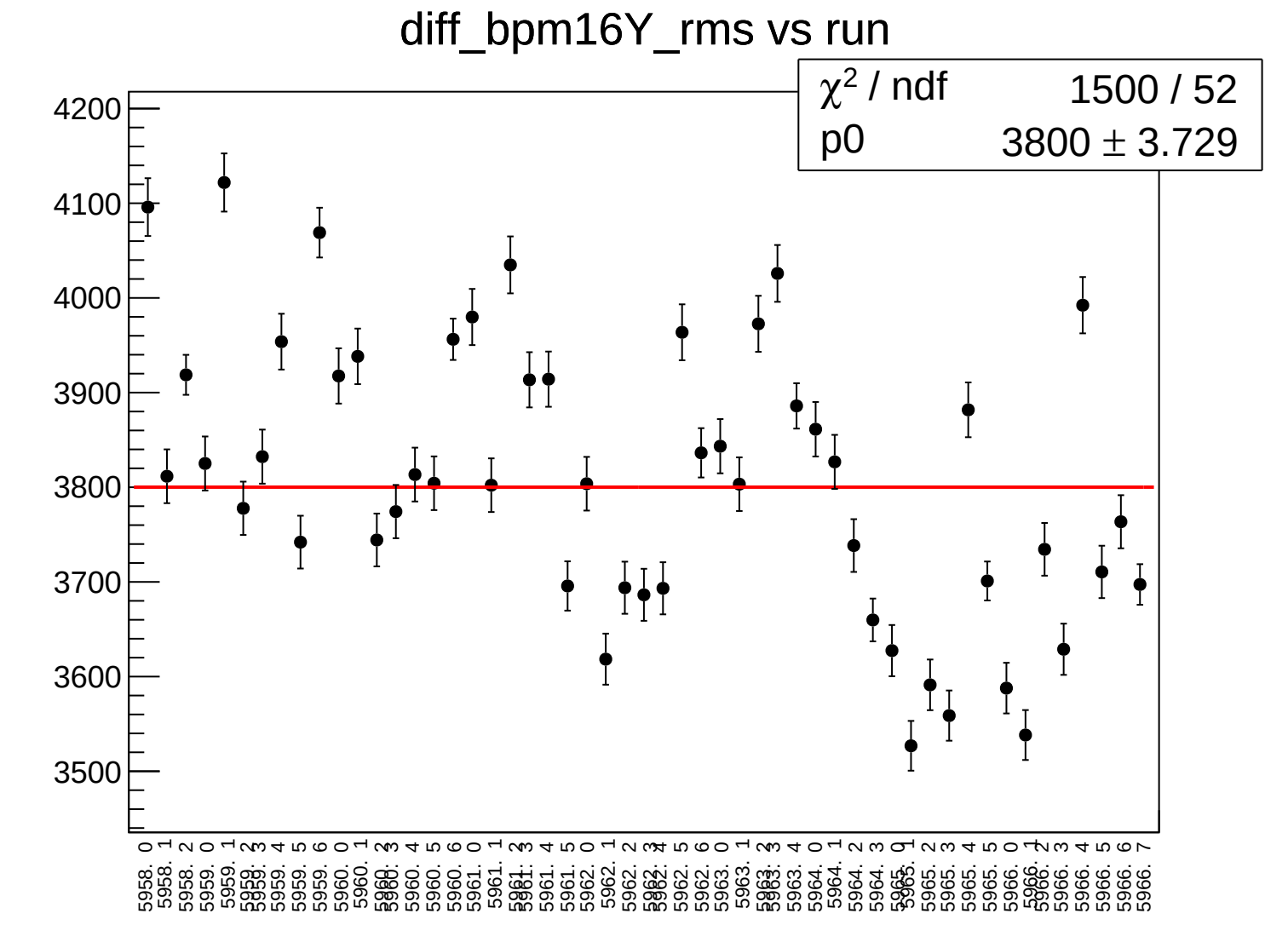

diff_bpm16X_mean vs run
χ² / ndf 67.88 / 52
p0 1.786 ± 15.85
400
200
0
−200
−400
pull
Entries 53
Mean −3.405e+04
Std Dev 3.407e+04
2
1
0
−1
−2
−3

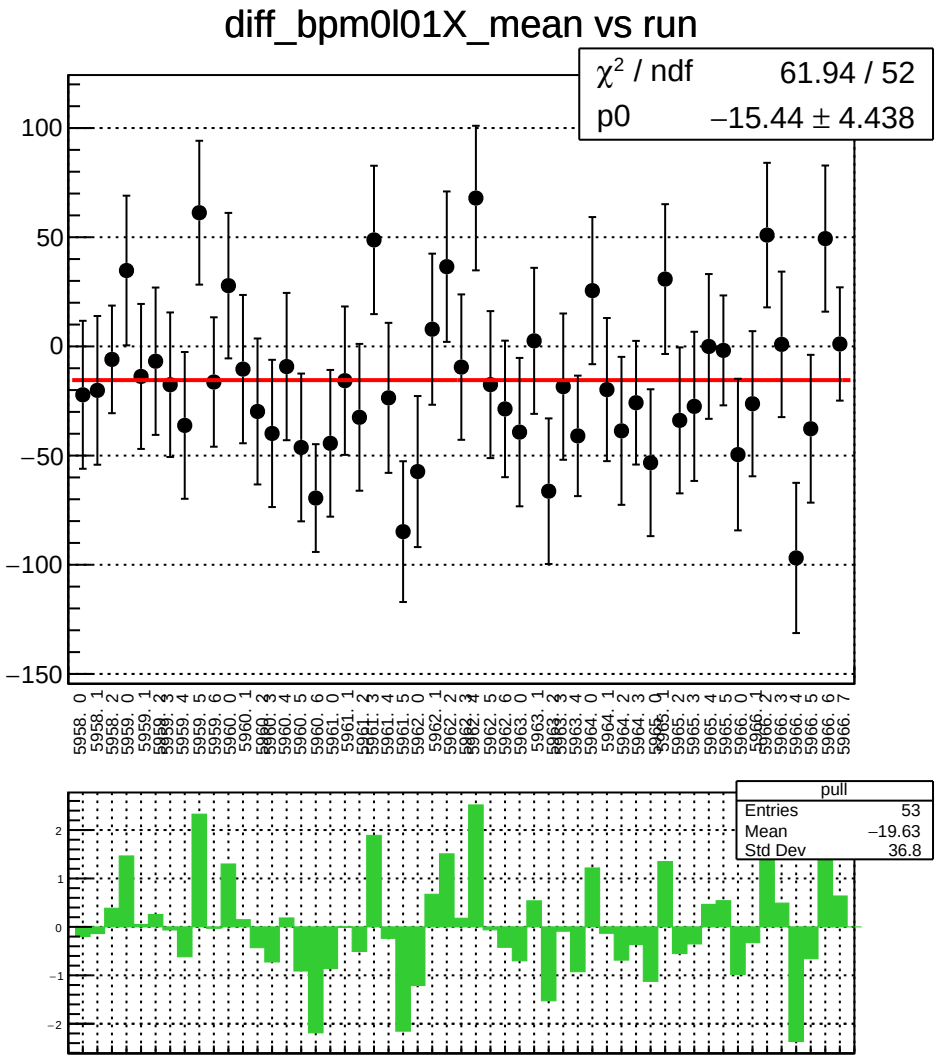

pull1D
Entries 53
Mean −3.894e−05
Std Dev 1.132
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

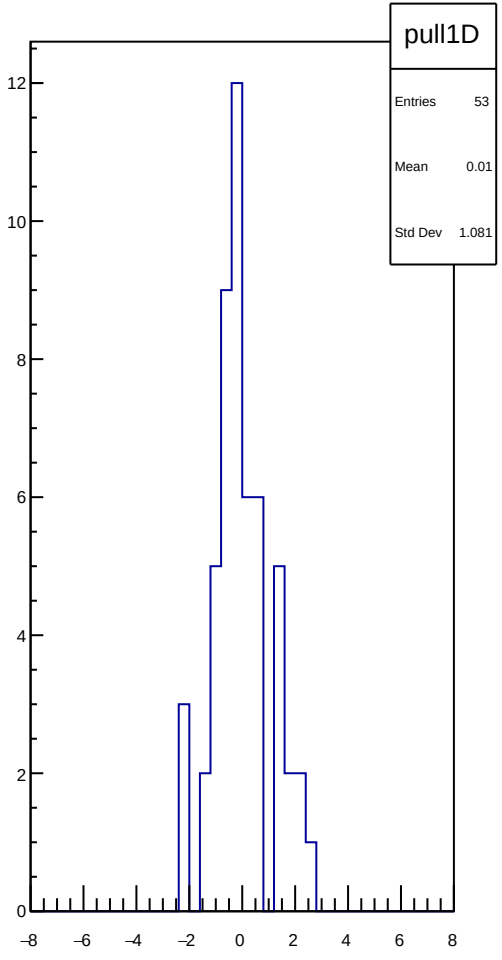

diff_bpm16X_rms vs run
χ² / ndf 2552 / 52
p0 1.141e+04 ± 11.2
13000
12500
12000
11500
11000
10500

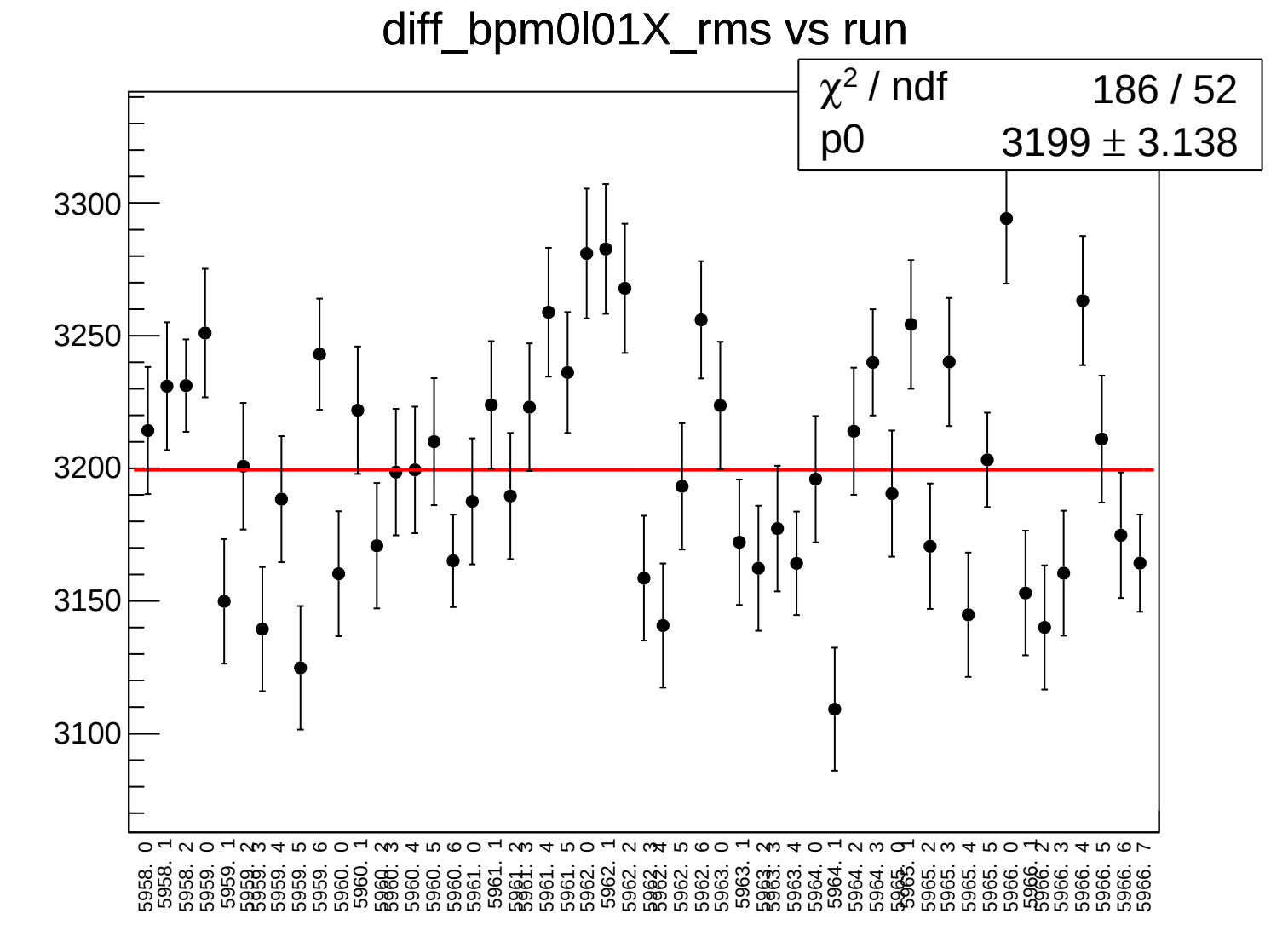

diff_bpm16Y_mean vs run
χ² / ndf 52.28 / 52
p0 −2.156 ± 5.274
pull
Entries 53
Mean −7818
Std Dev 7853

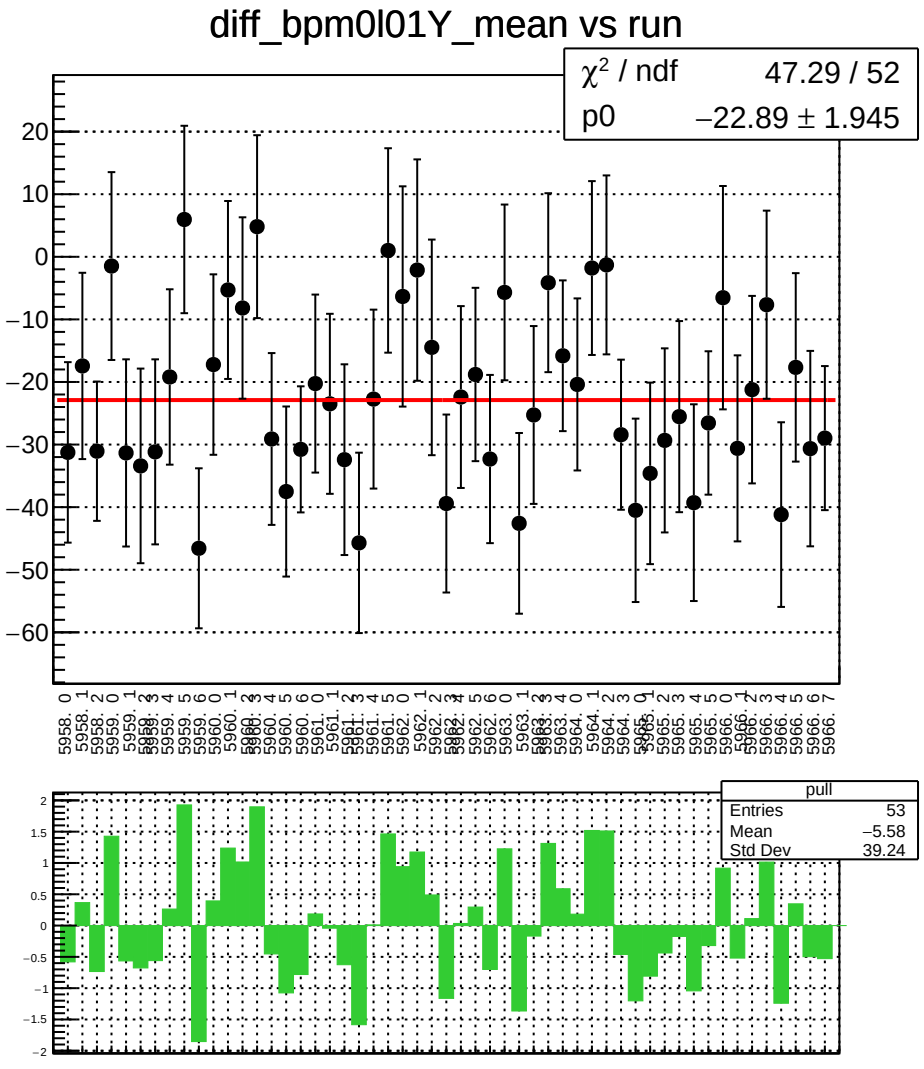

pull1D
Entries 53
Mean 0.0001524
Std Dev 0.9932

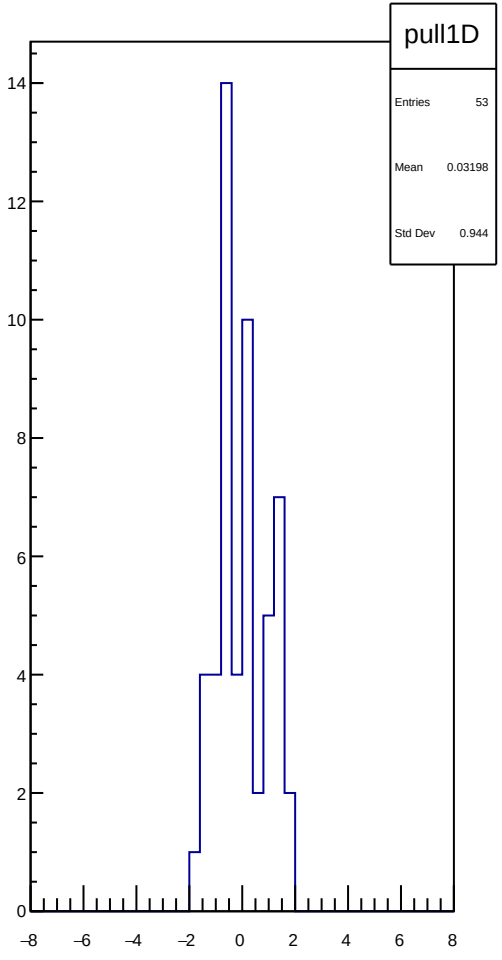

diff_bpm16Y_rms vs run
χ² / ndf 1500 / 52
p0 3800 ± 3.729
4200
4100
4000
3900
3800
3700
3600
3500
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

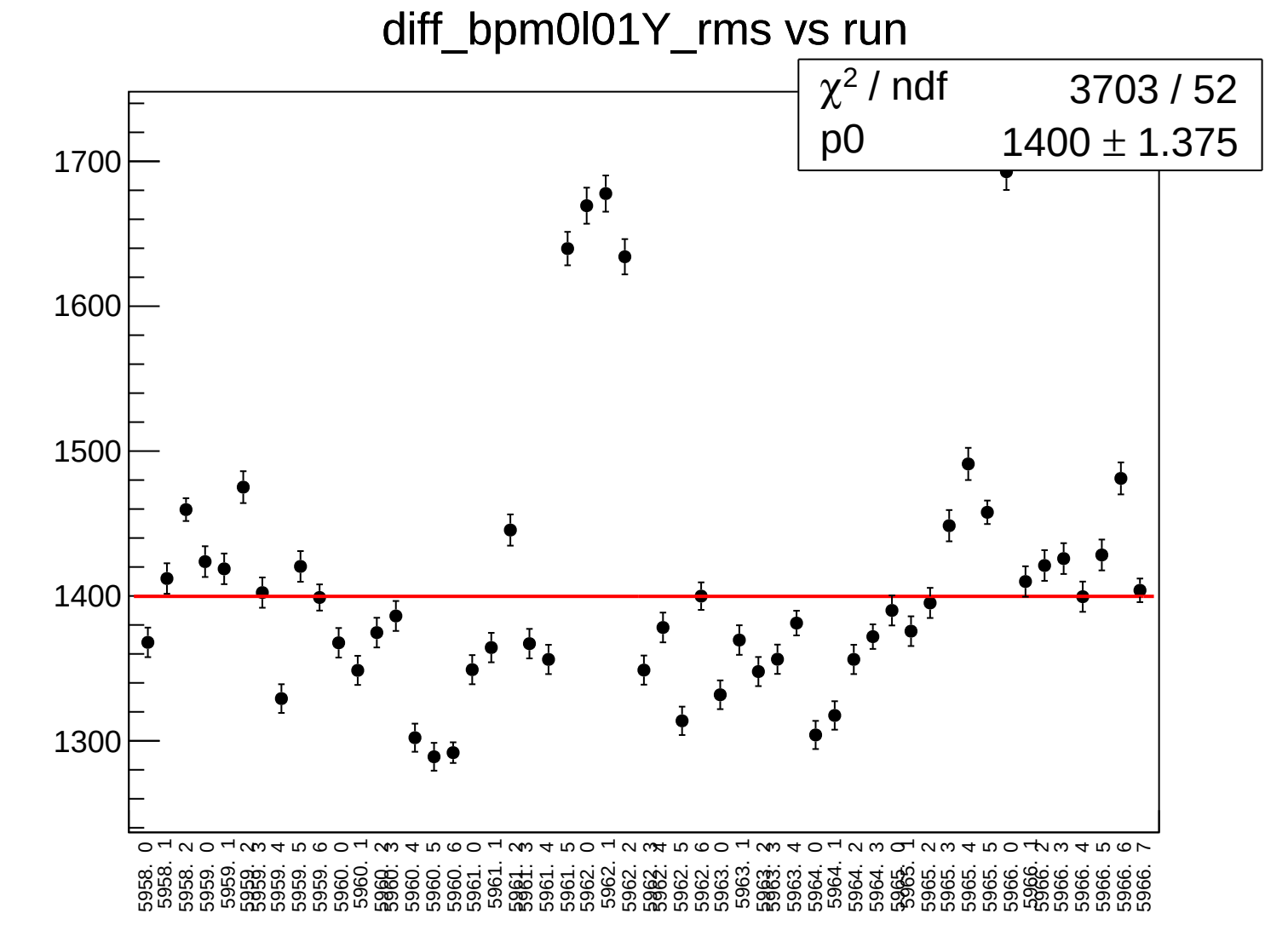

diff_bpm0l01X_mean vs run
χ² / ndf 61.94 / 52
p0 −15.44 ± 4.438
pull
Entries 53
Mean −19.63
Std Dev 36.8

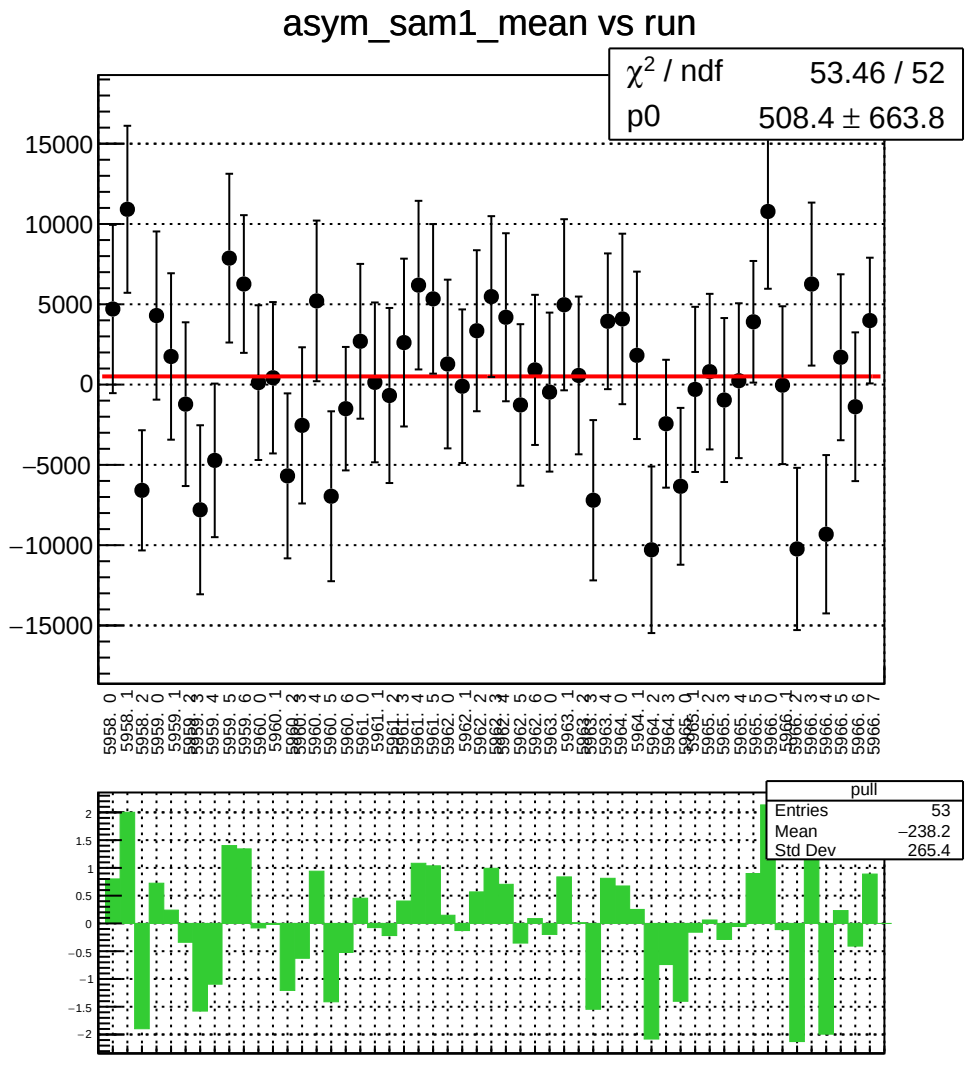

pull1D
Entries 53
Mean 0.01
Std Dev 1.081

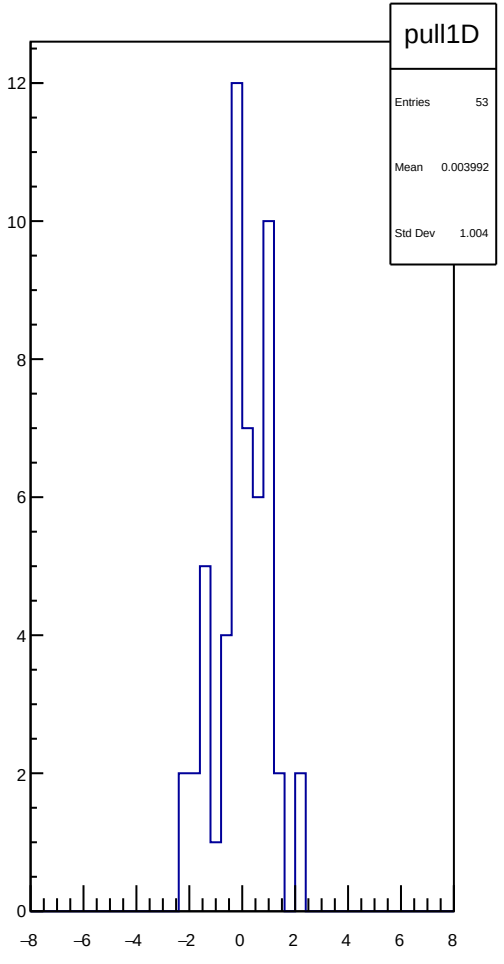

diff_bpm0l01X_rms vs run
χ² / ndf 186 / 52
p0 3199 ± 3.138
3300
3250
3200
3150
3100

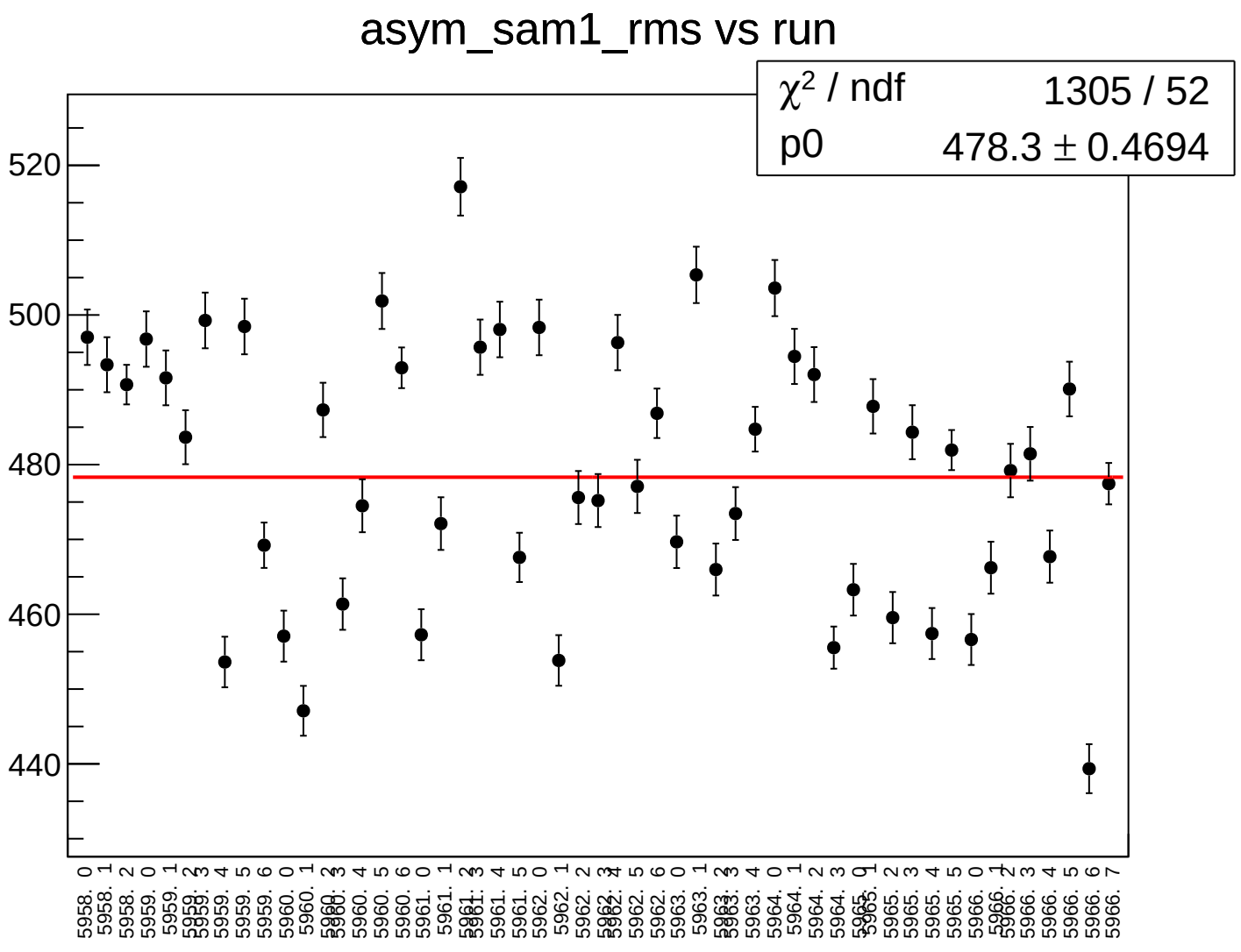

diff_bpm0l01Y_mean vs run
χ² / ndf 47.29 / 52
p0 −22.89 ± 1.945
pull
Entries 53
Mean −5.58
Std Dev 39.24

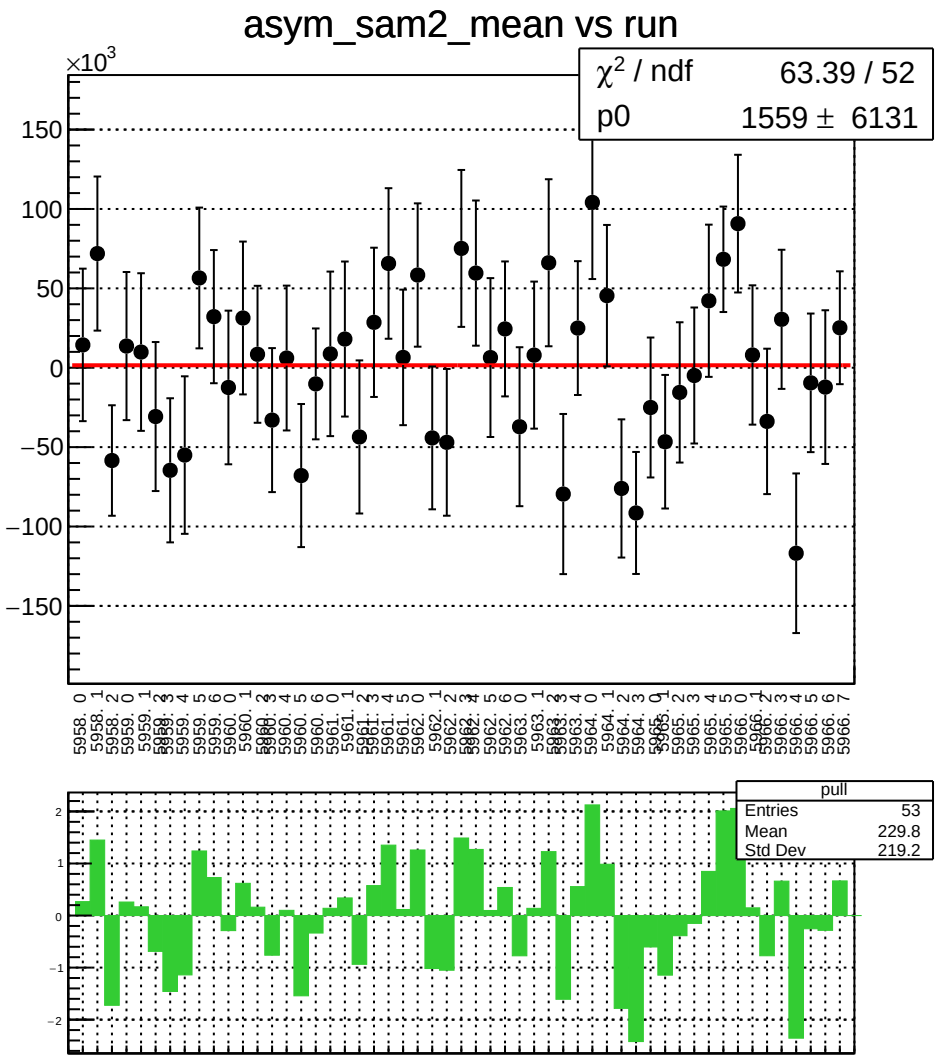

pull1D
Entries 53
Mean 0.03198
Std Dev 0.944

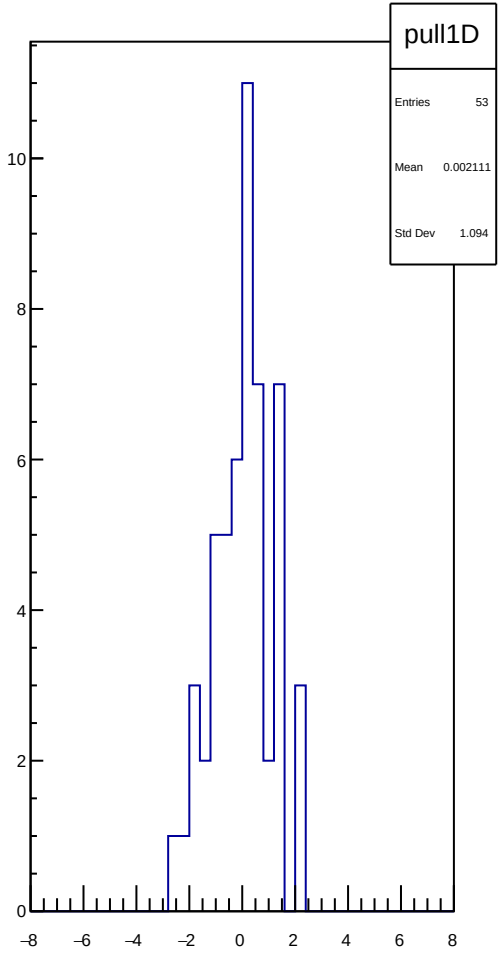

diff_bpm0l01Y_rms vs run
χ² / ndf 3703 / 52
p0 1400 ± 1.375
1700
1600
1500
1400
1300

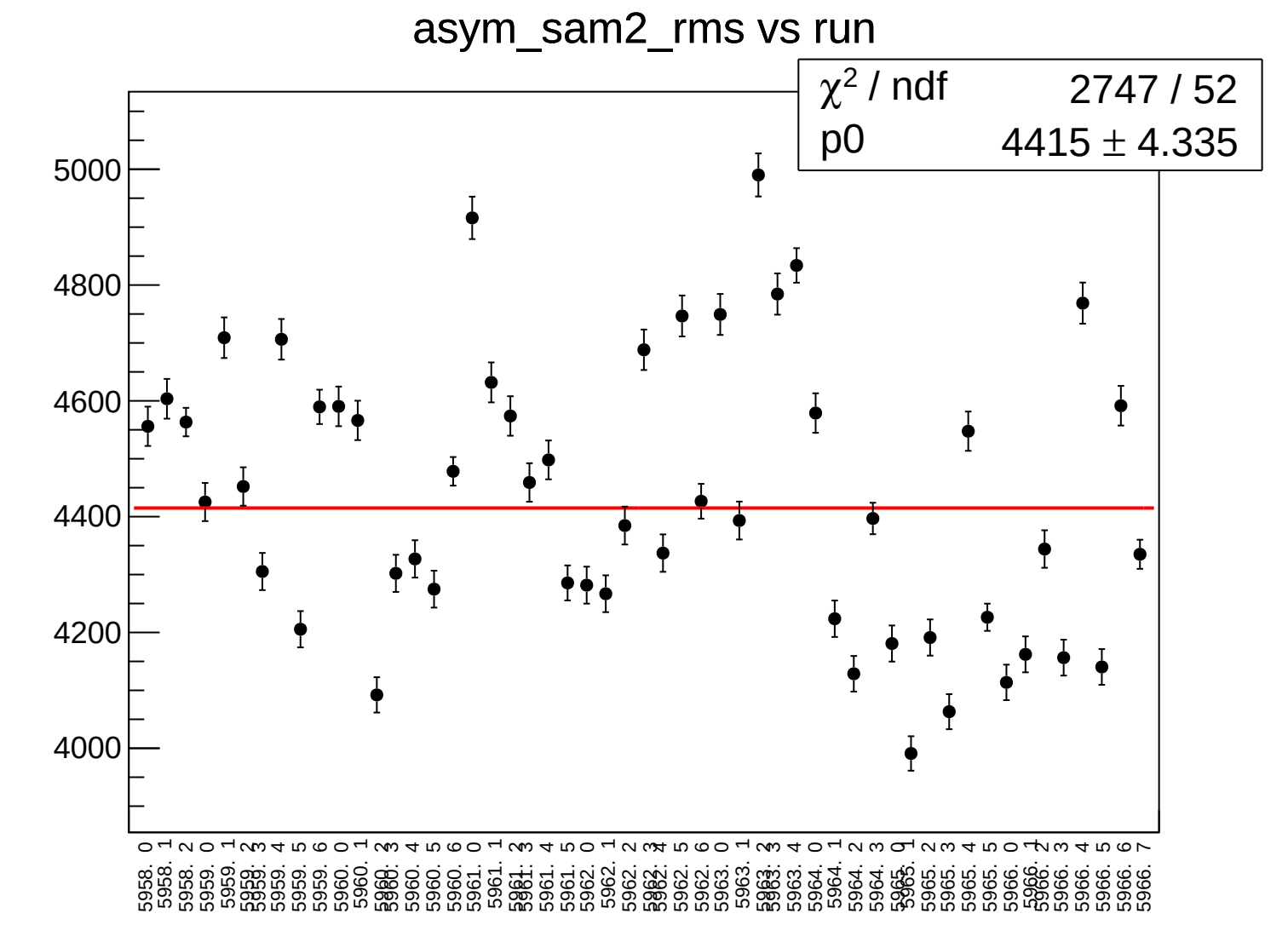

asym_sam1_mean vs run
χ² / ndf 53.46 / 52
p0 508.4 ± 663.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 53
Mean −238.2
Std Dev 265.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

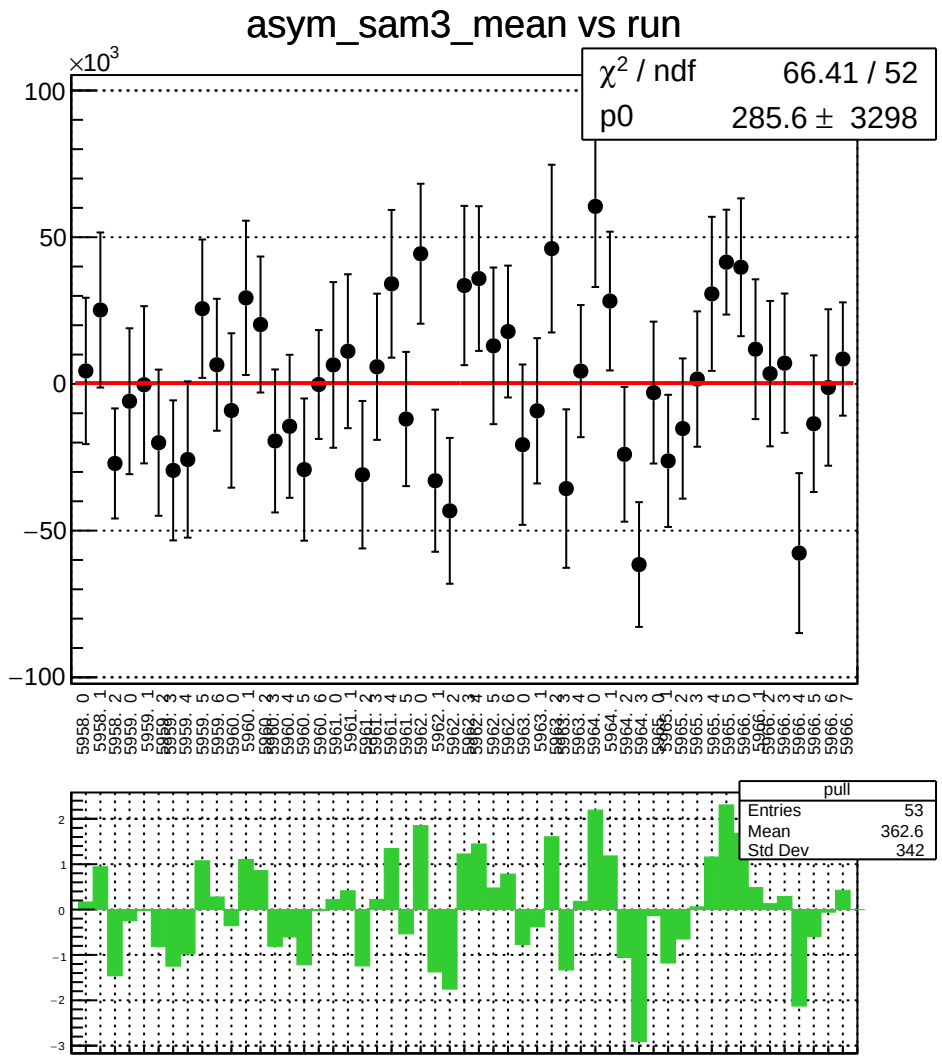

pull1D
Entries 53
Mean 0.003992
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

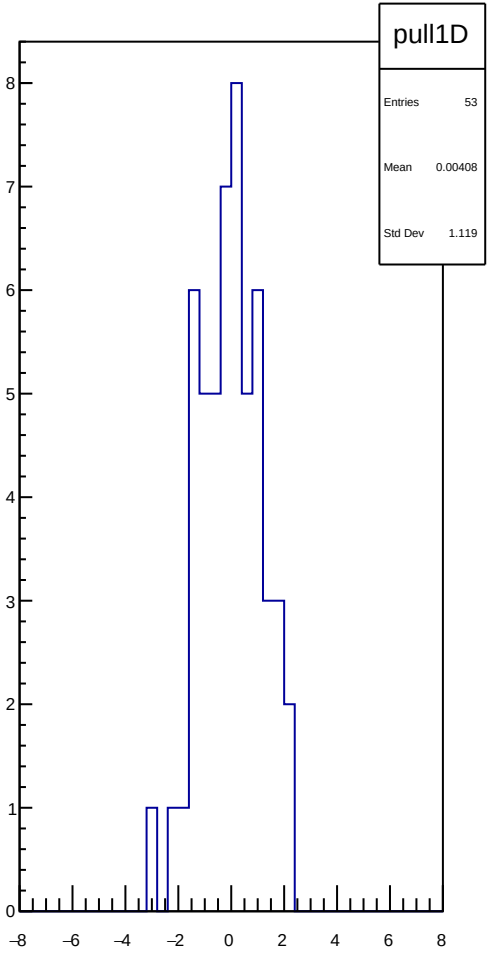

asym_sam1_rms vs run
χ² / ndf 1305 / 52
p0 478.3 ± 0.4694
520
500
480
460
440

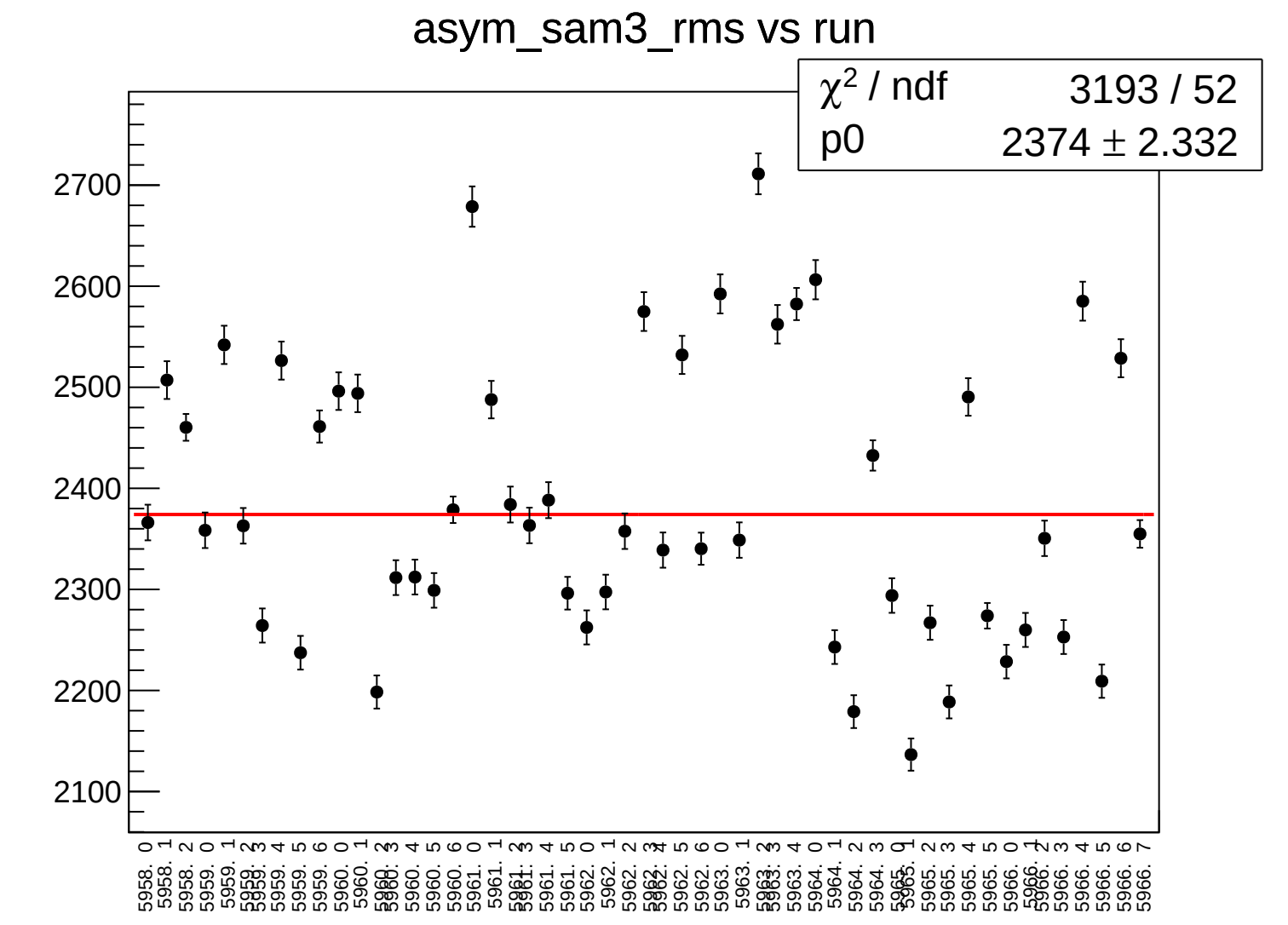

asym_sam2_mean vs run
×10^3
χ^2 / ndf 63.39 / 52
p0 1559 ± 6131
150
100
50
0
−50
−100
−150
pull
Entries 53
Mean 229.8
Std Dev 219.2
2
1
0
−1
−2

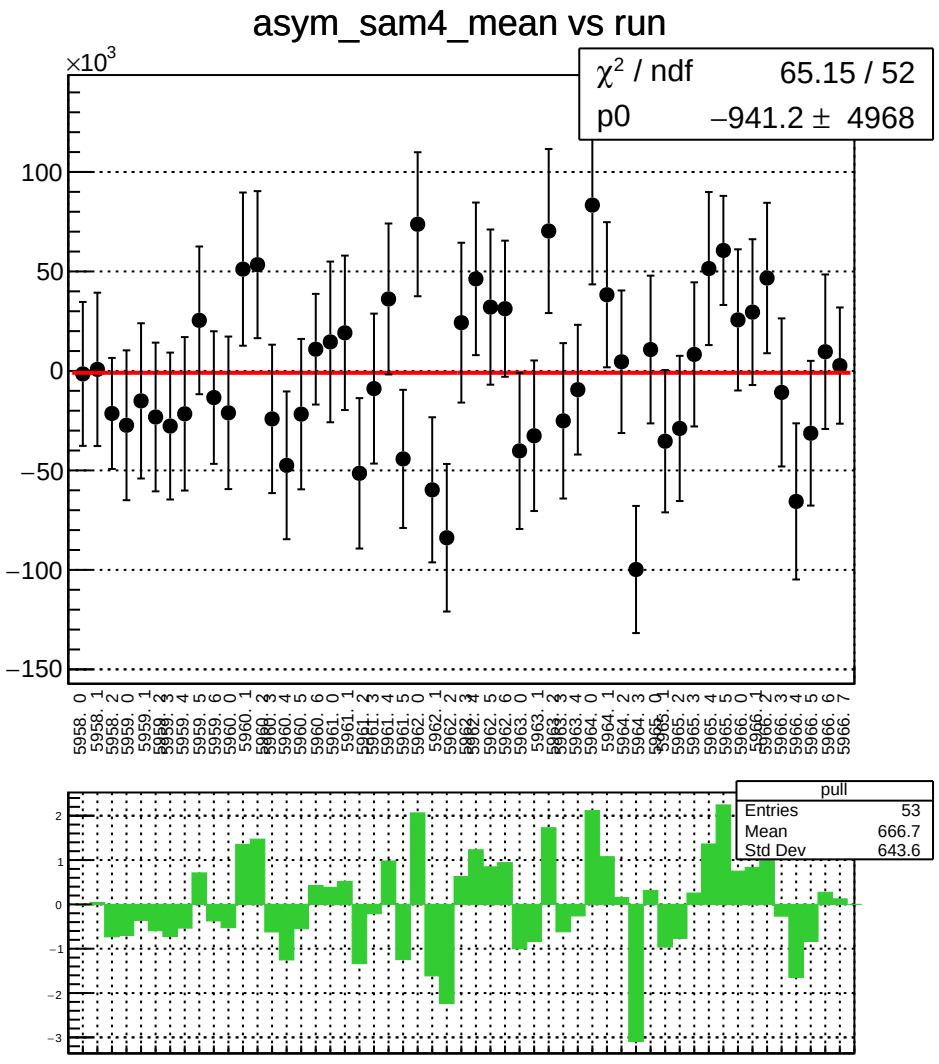

pull1D
Entries 53
Mean 0.002111
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

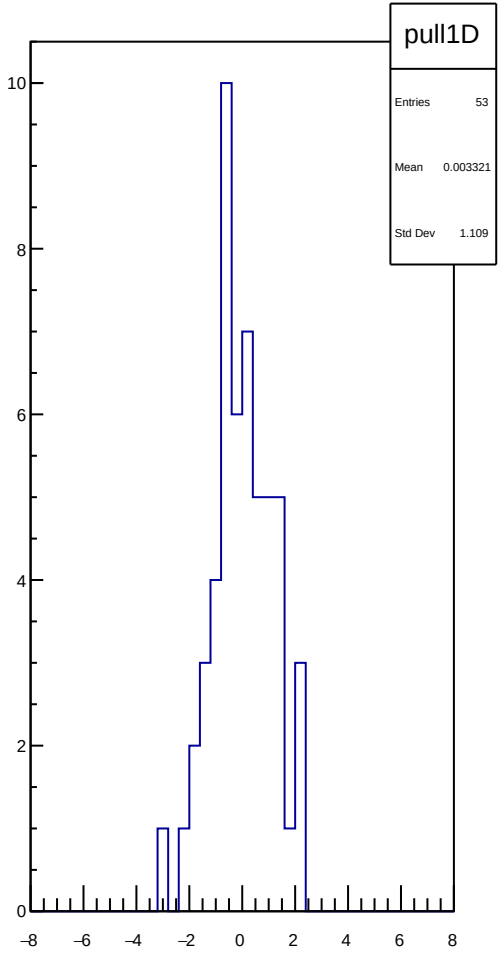

asym_sam2_rms vs run
χ² / ndf 2747 / 52
p0 4415 ± 4.335
5000
4800
4600
4400
4200
4000

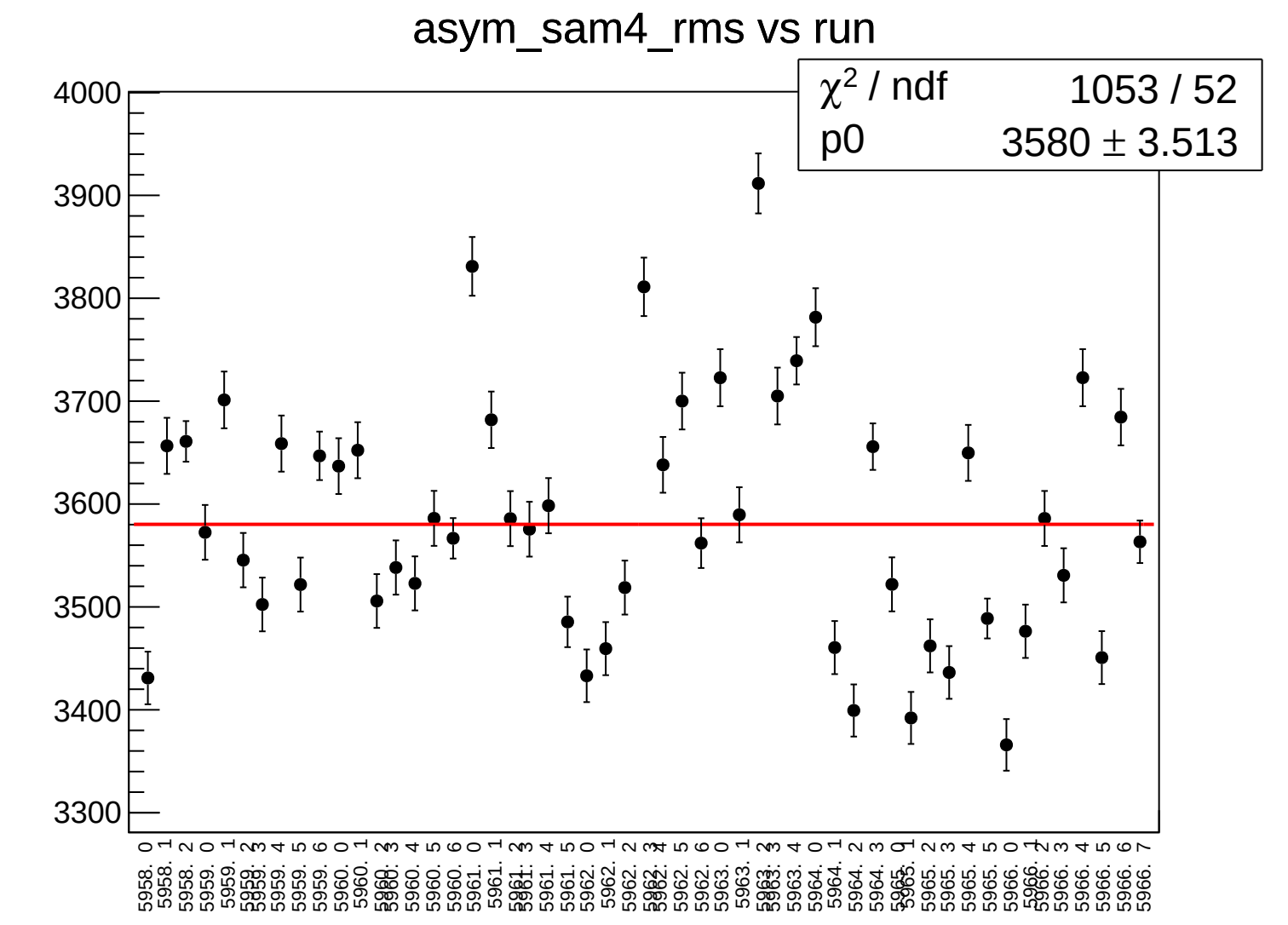

asym_sam3_mean vs run
×10^3
χ² / ndf 66.41 / 52
p0 285.6 ± 3298
pull
Entries 53
Mean 362.6
Std Dev 342

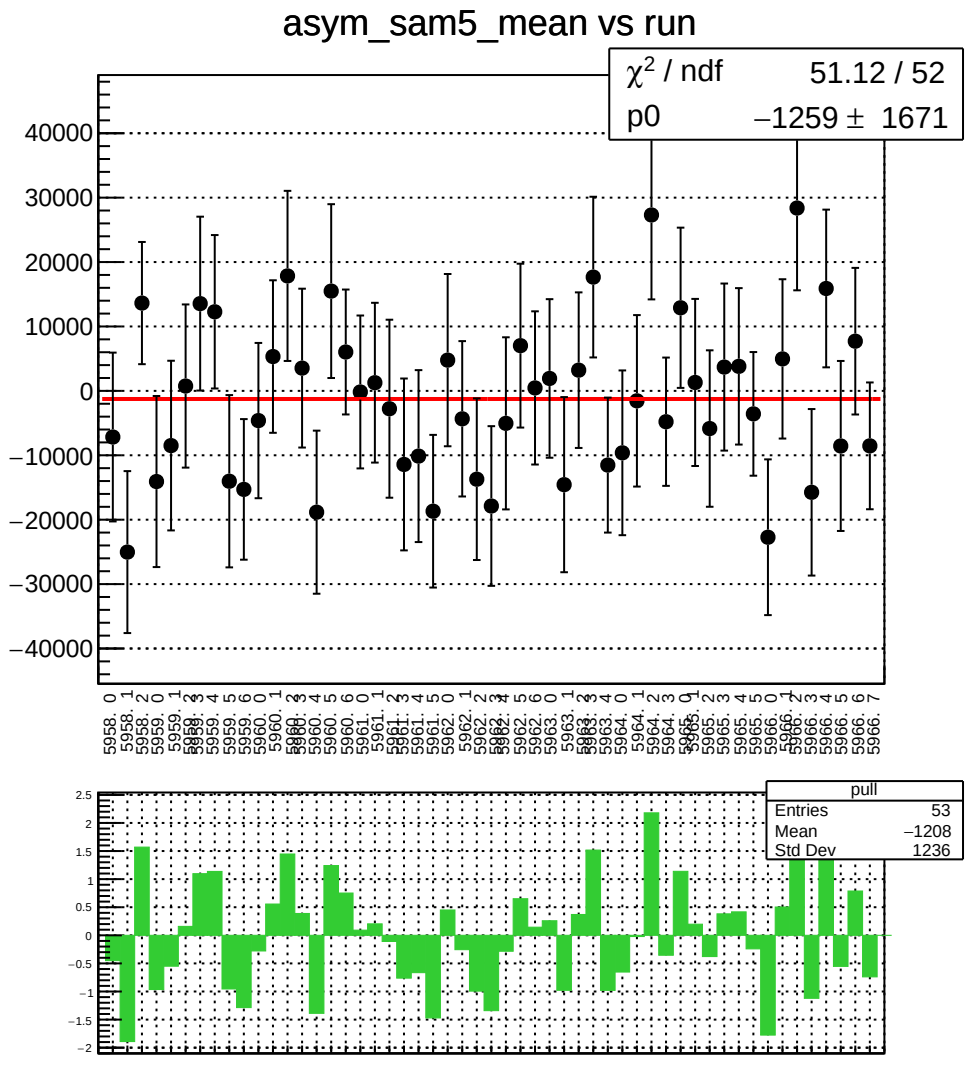

pull1D
Entries 53
Mean 0.00408
Std Dev 1.119

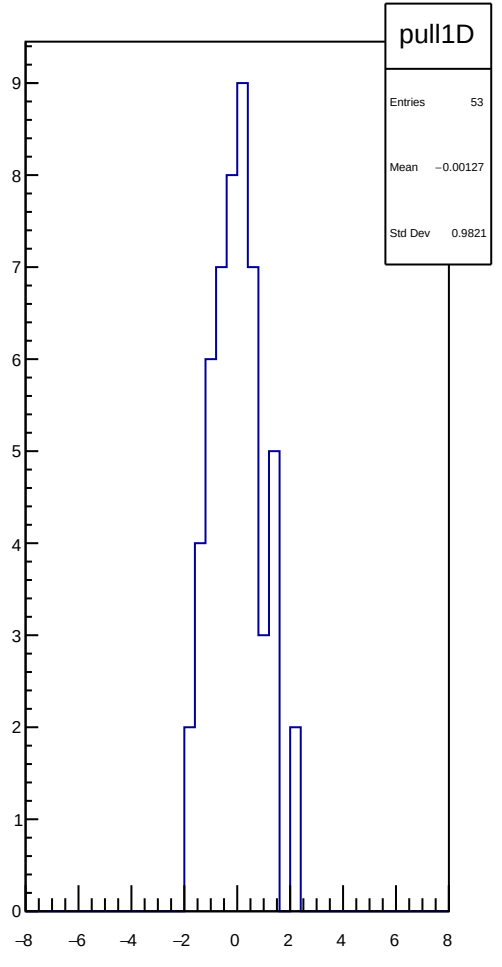

asym_sam3_rms vs run
χ² / ndf 3193 / 52
p0 2374 ± 2.332
2700
2600
2500
2400
2300
2200
2100
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

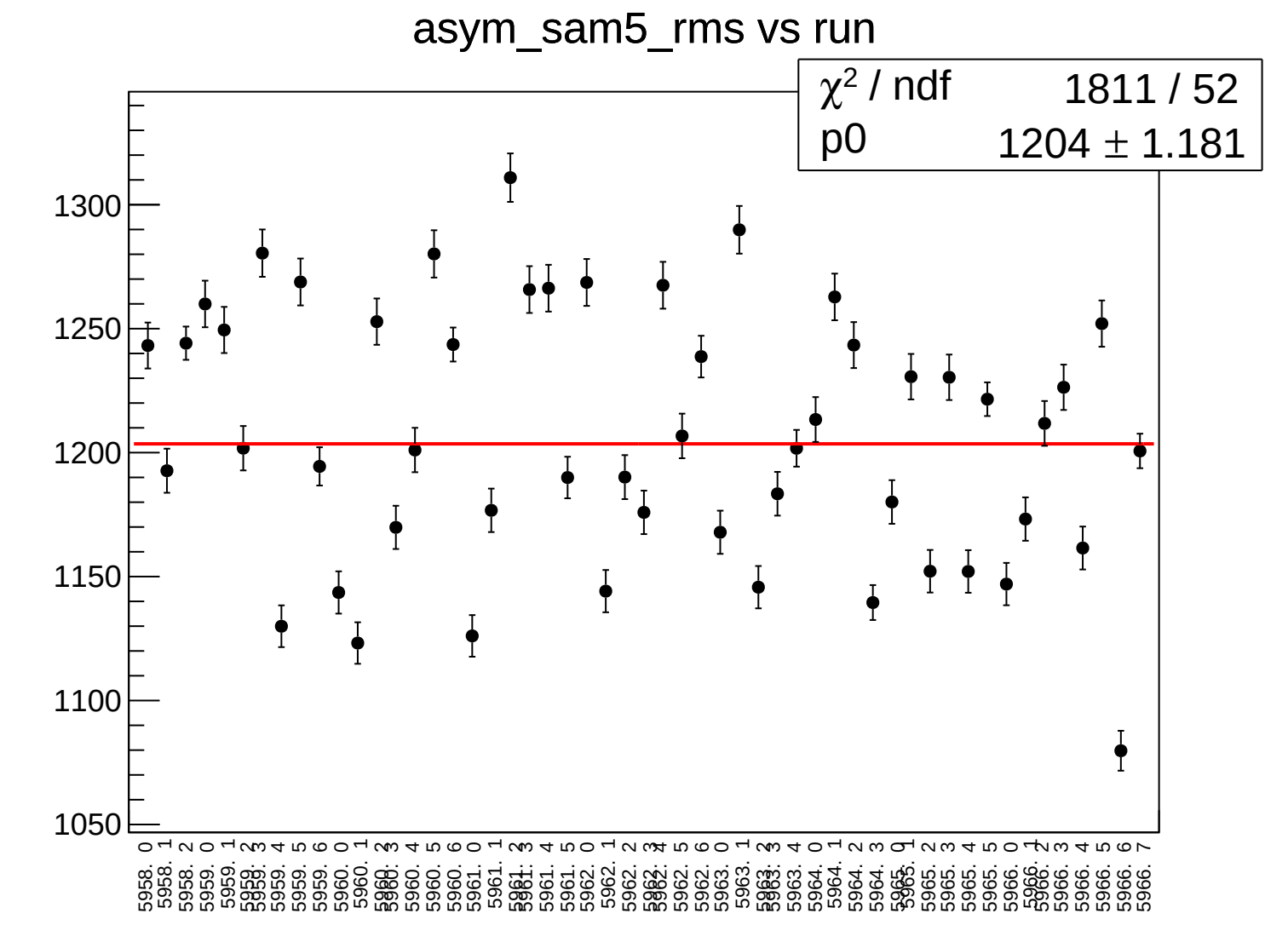

asym_sam4_mean vs run
χ² / ndf 65.15 / 52
p0 −941.2 ± 4968
×10³
pull
Entries 53
Mean 666.7
Std Dev 643.6


pull1D
Entries 53
Mean 0.003321
Std Dev 1.109


asym_sam4_rms vs run
χ² / ndf 1053 / 52
p0 3580 ± 3.513
4000
3900
3800
3700
3600
3500
3400
3300


asym_sam5_mean vs run
χ² / ndf 51.12 / 52
p0 −1259 ± 1671
pull
Entries 53
Mean −1208
Std Dev 1236


pull1D
Entries 53
Mean −0.00127
Std Dev 0.9821


asym_sam5_rms vs run
χ² / ndf 1811 / 52
p0 1204 ± 1.181
1300
1250
1200
1150
1100
1050
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
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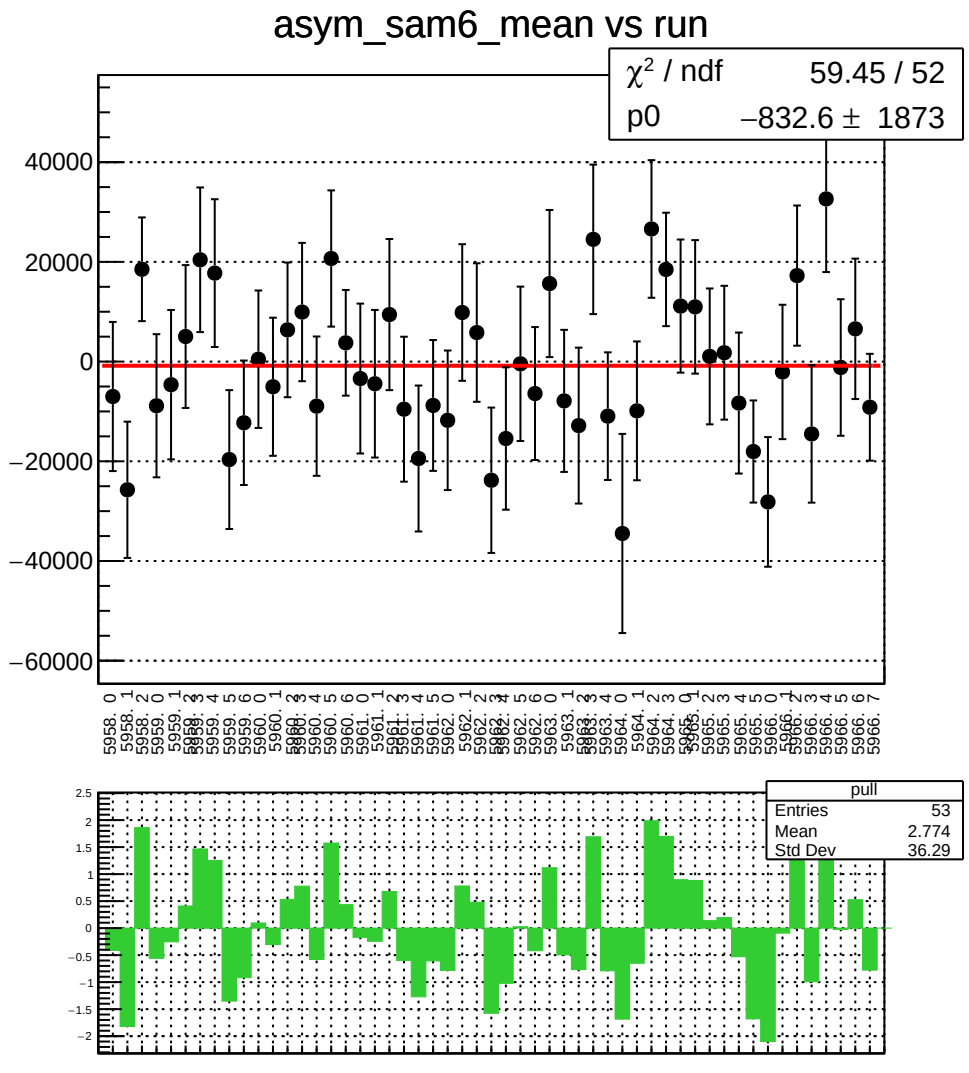
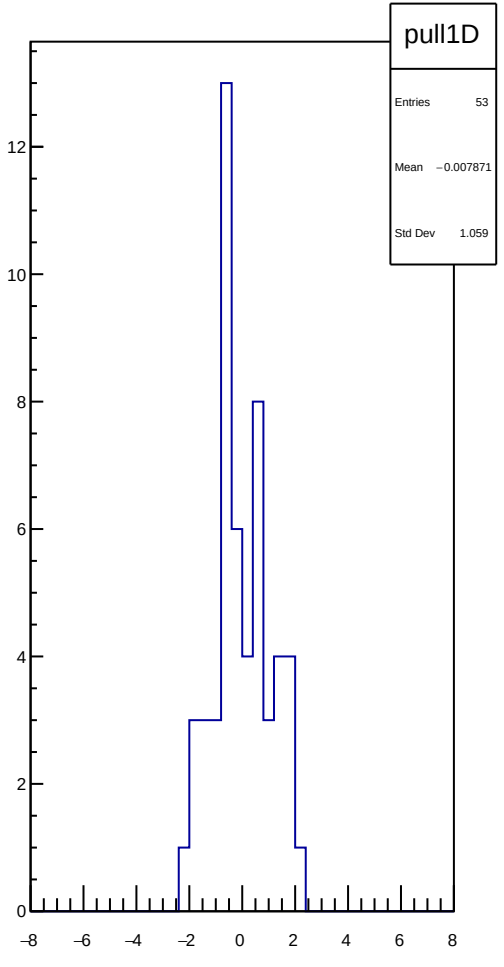
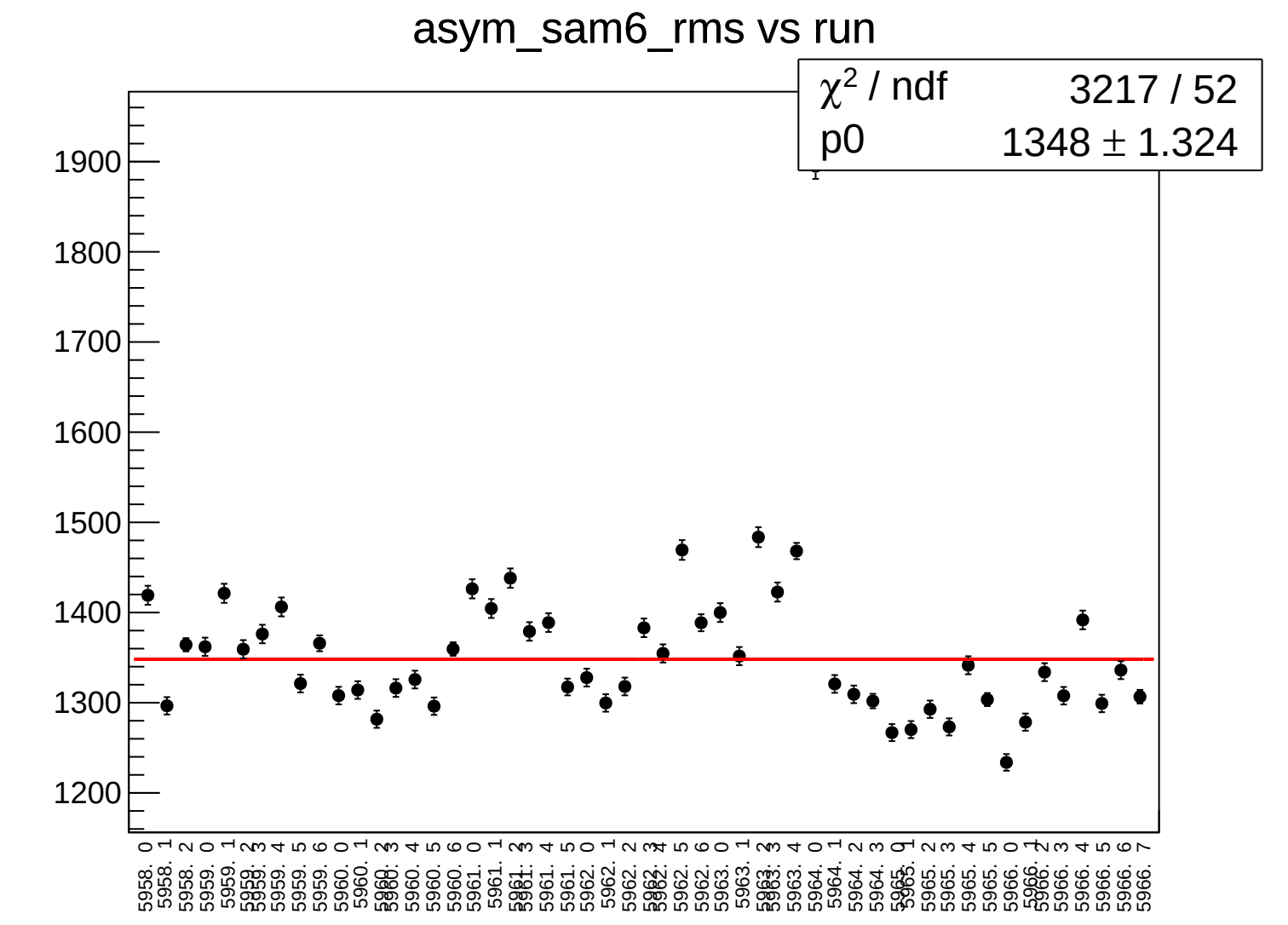
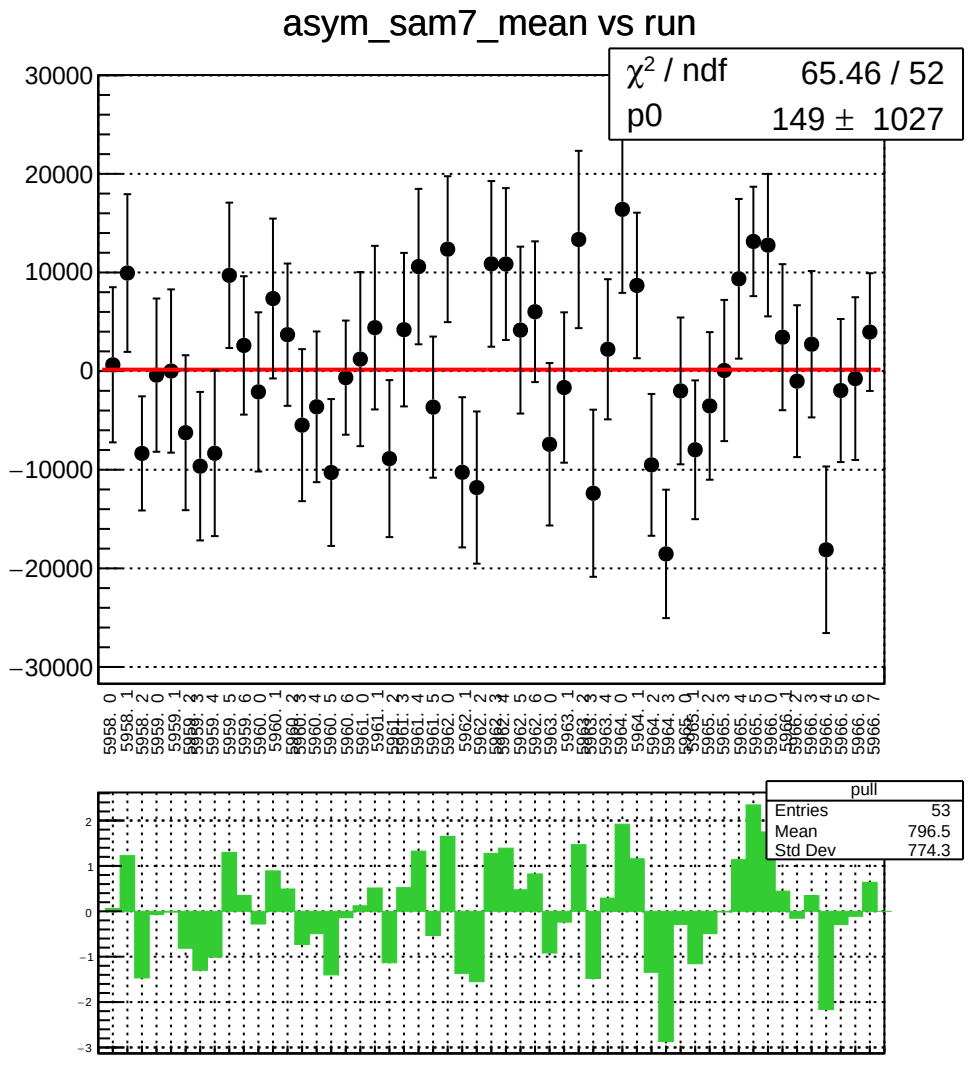
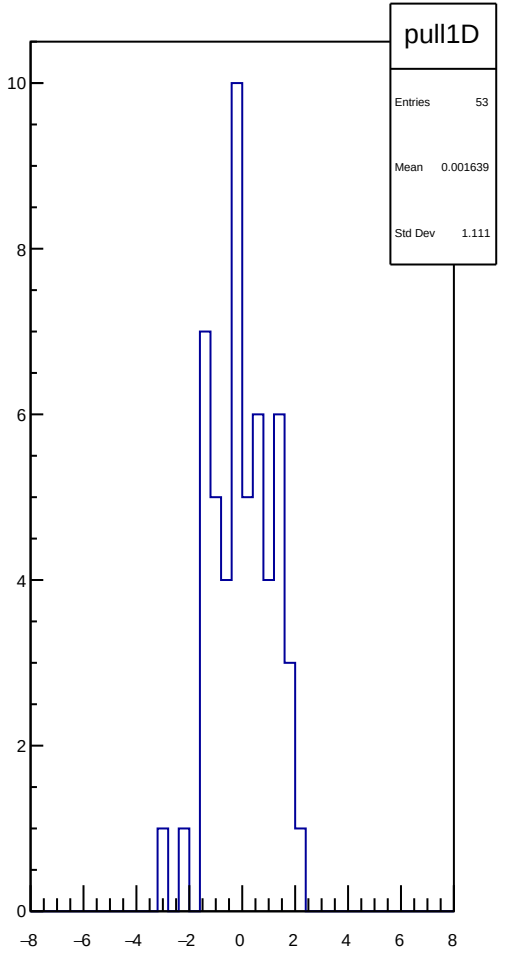
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

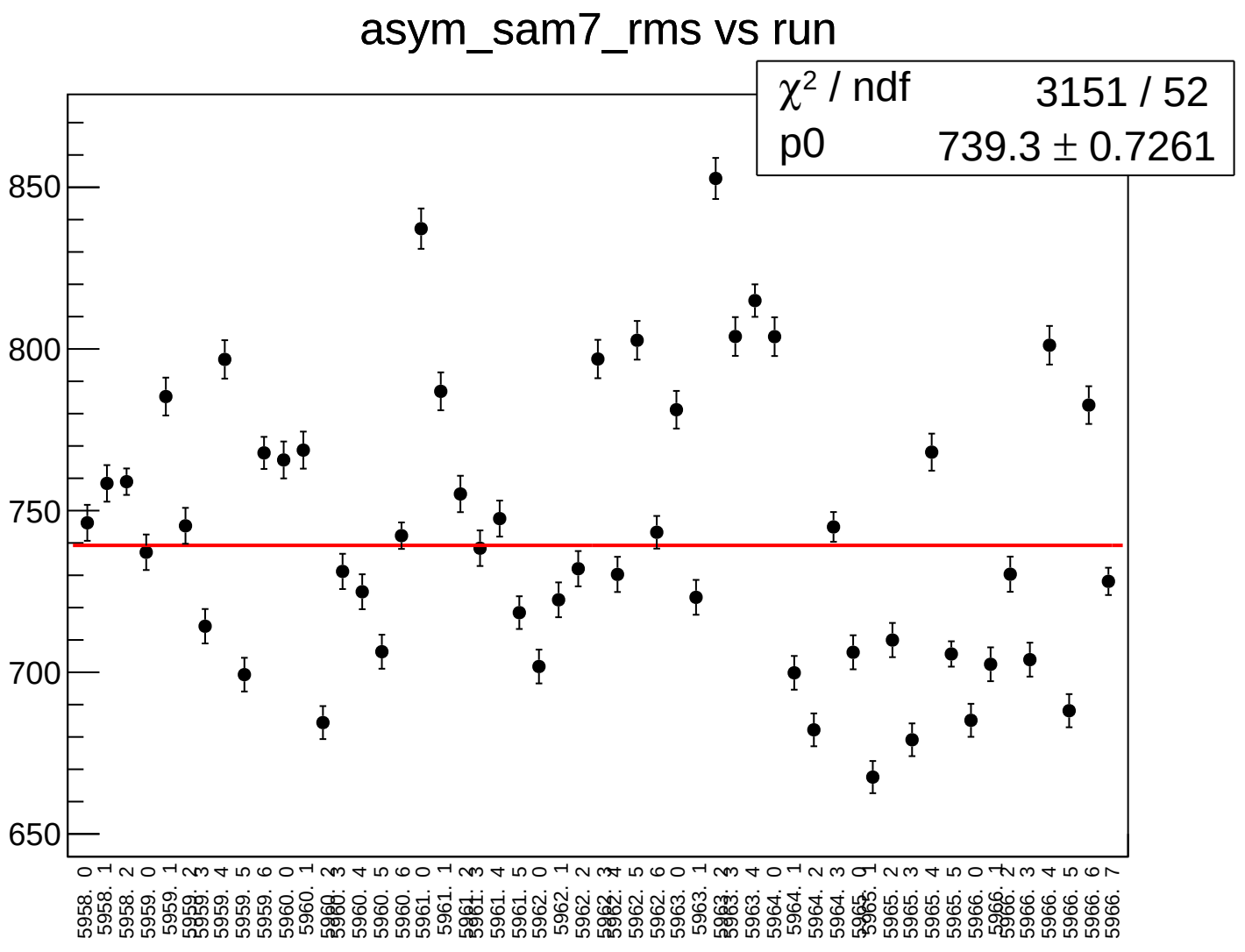

asym_sam6_mean vs run
χ² / ndf 59.45 / 52
p0 −832.6 ± 1873
40000
20000
0
−20000
−40000
−60000
pull
Entries 53
Mean 2.774
Std Dev 36.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

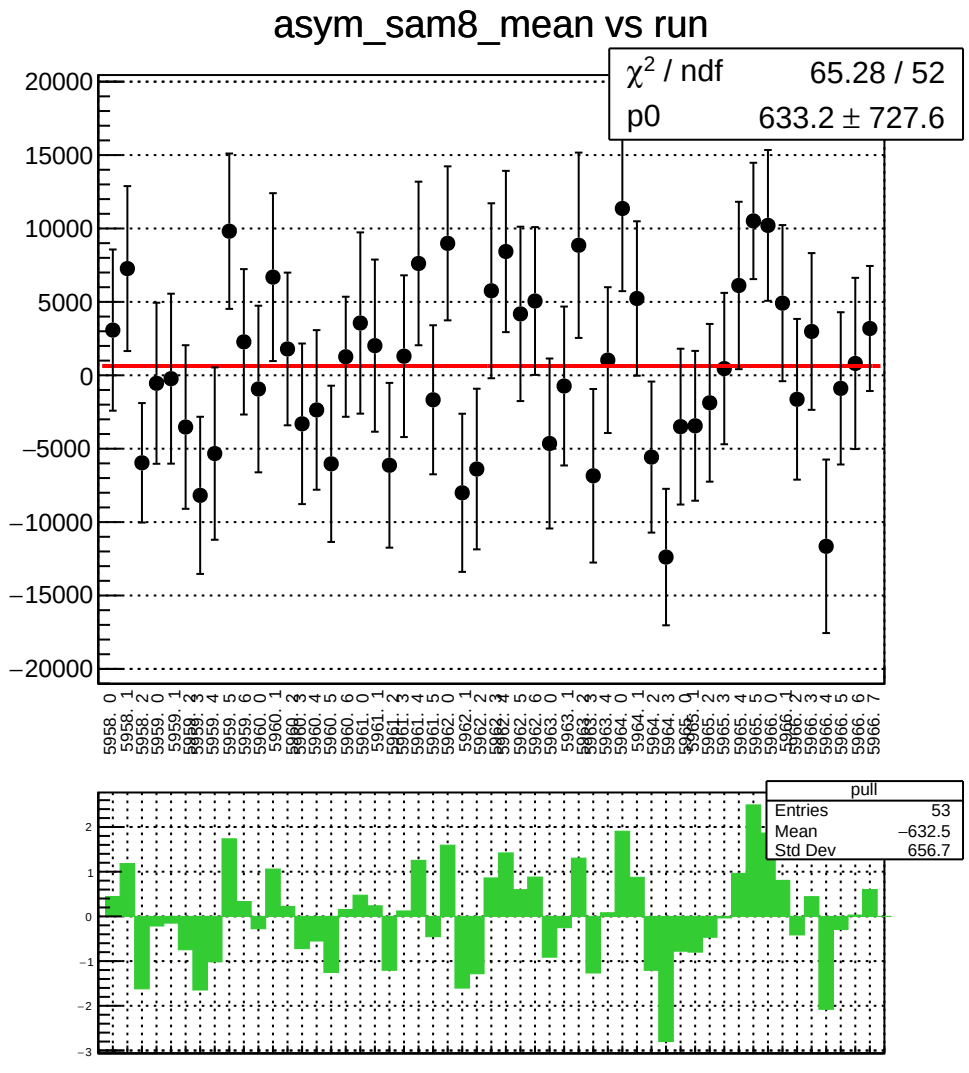

pull1D
Entries 53
Mean −0.007871
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

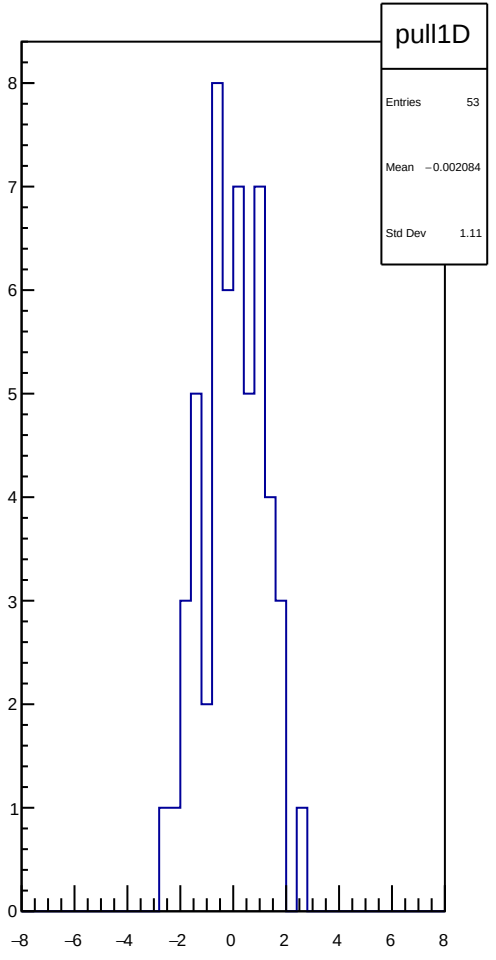

asym_sam6_rms vs run
χ² / ndf 3217 / 52
p0 1348 ± 1.324
1900
1800
1700
1600
1500
1400
1300
1200

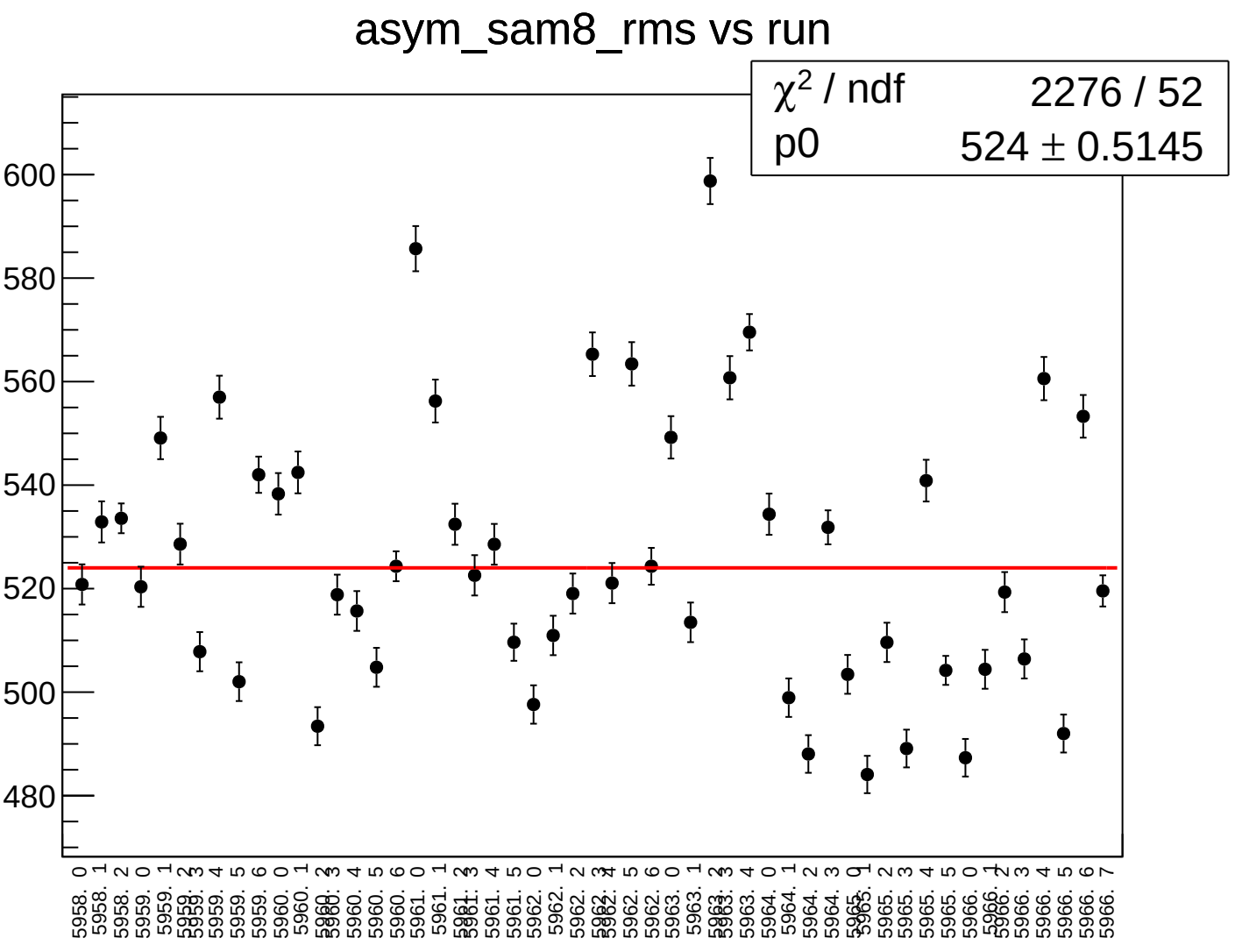

asym_sam7_mean vs run
χ² / ndf 65.46 / 52
p0 149 ± 1027
pull
Entries 53
Mean 796.5
Std Dev 774.3

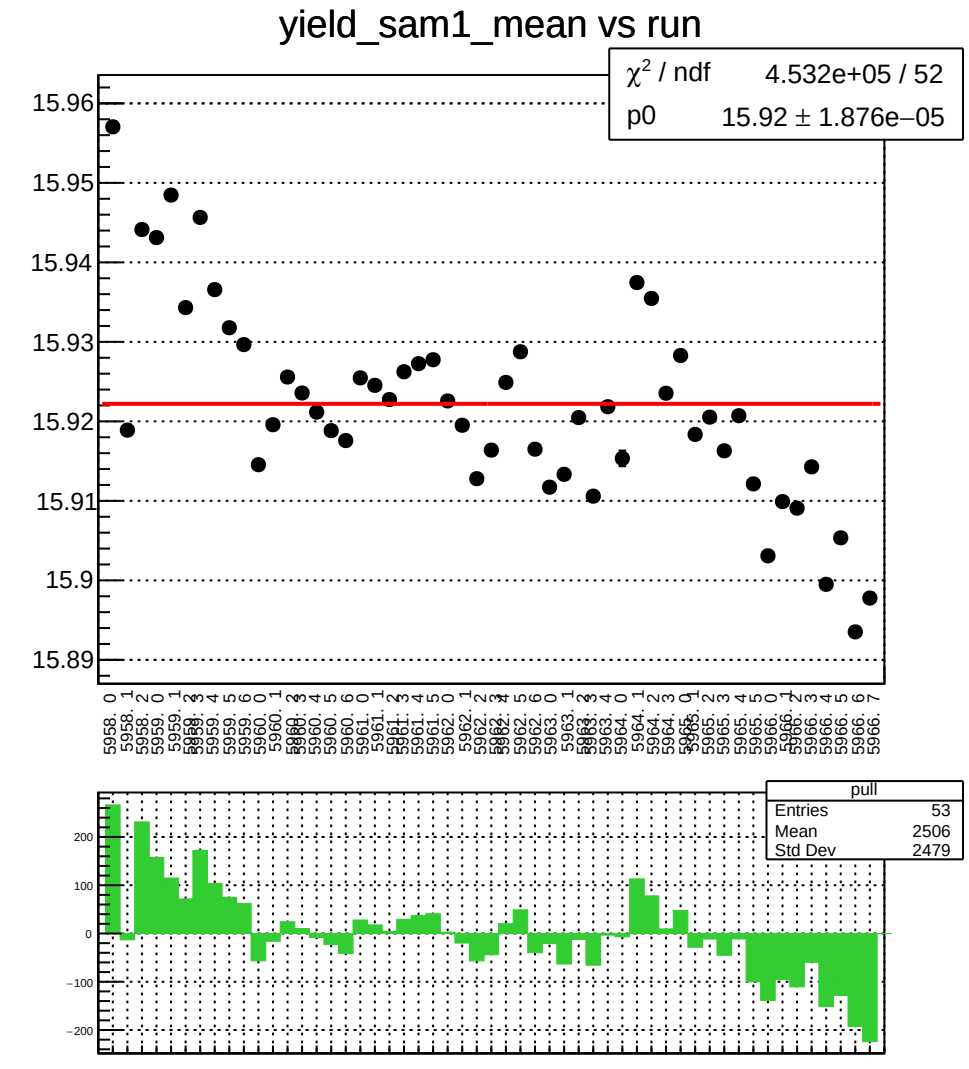

pull1D
Entries 53
Mean 0.001639
Std Dev 1.111

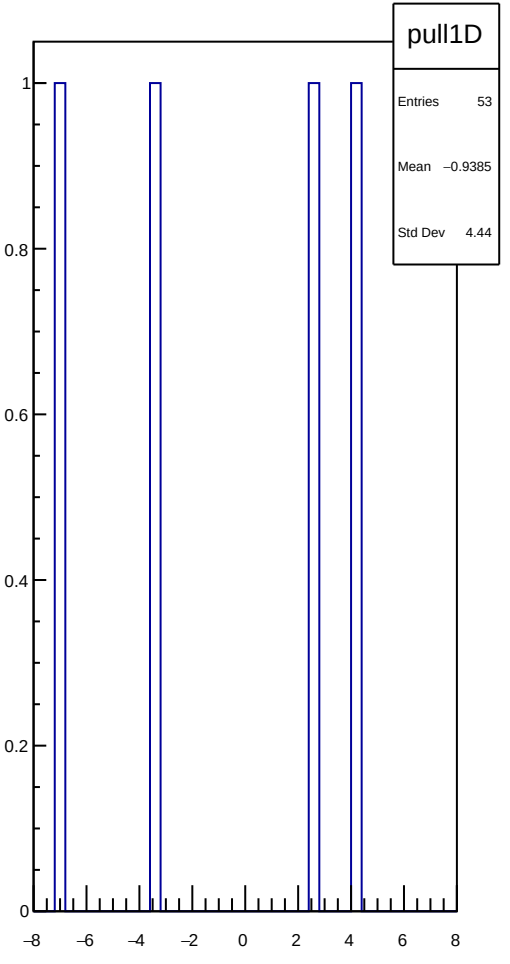

asym_sam7_rms vs run
χ² / ndf 3151 / 52
p0 739.3 ± 0.7261
850
800
750
700
650

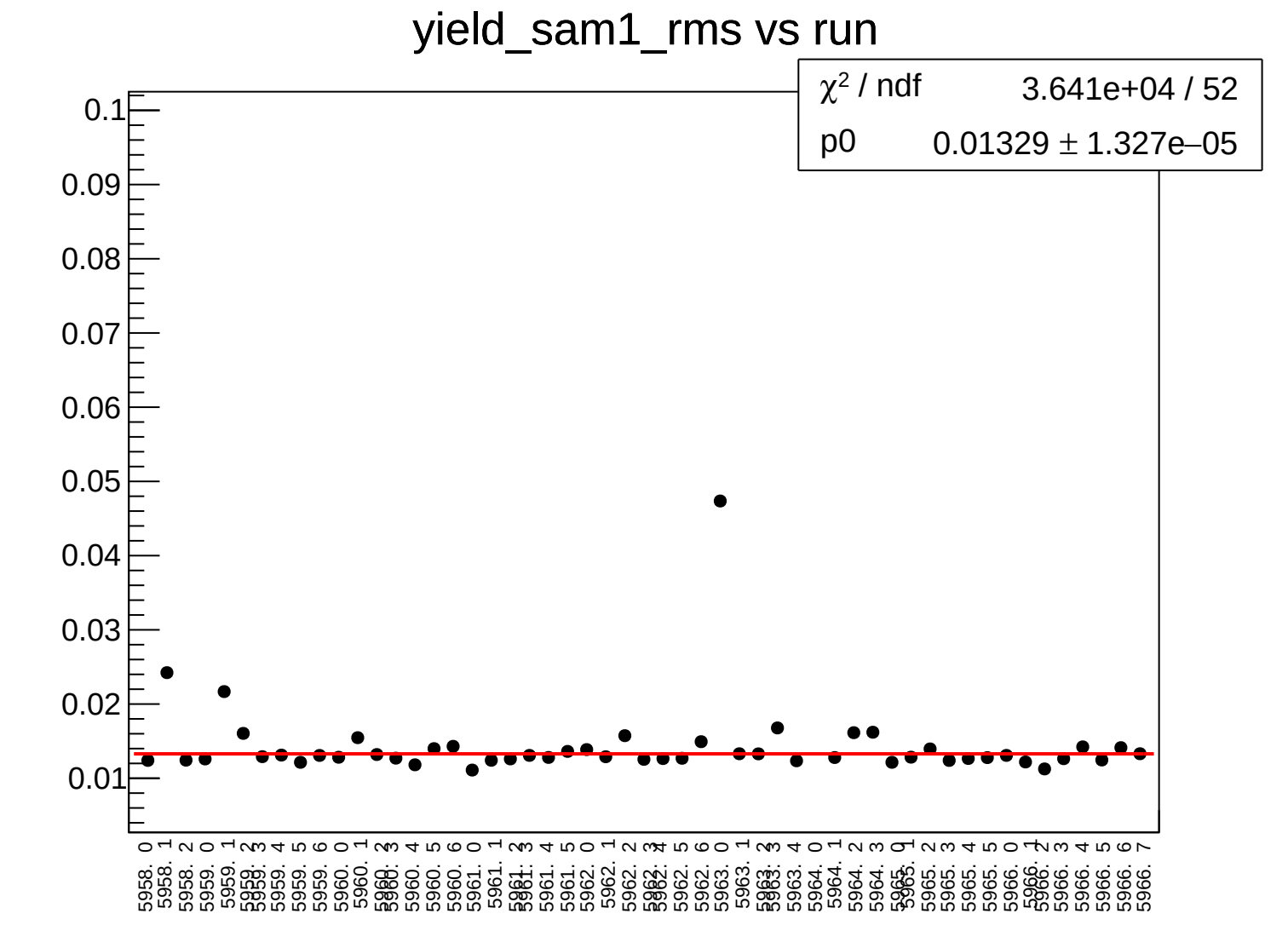

asym_sam8_mean vs run
χ² / ndf 65.28 / 52
p0 633.2 ± 727.6
pull
Entries 53
Mean −632.5
Std Dev 656.7

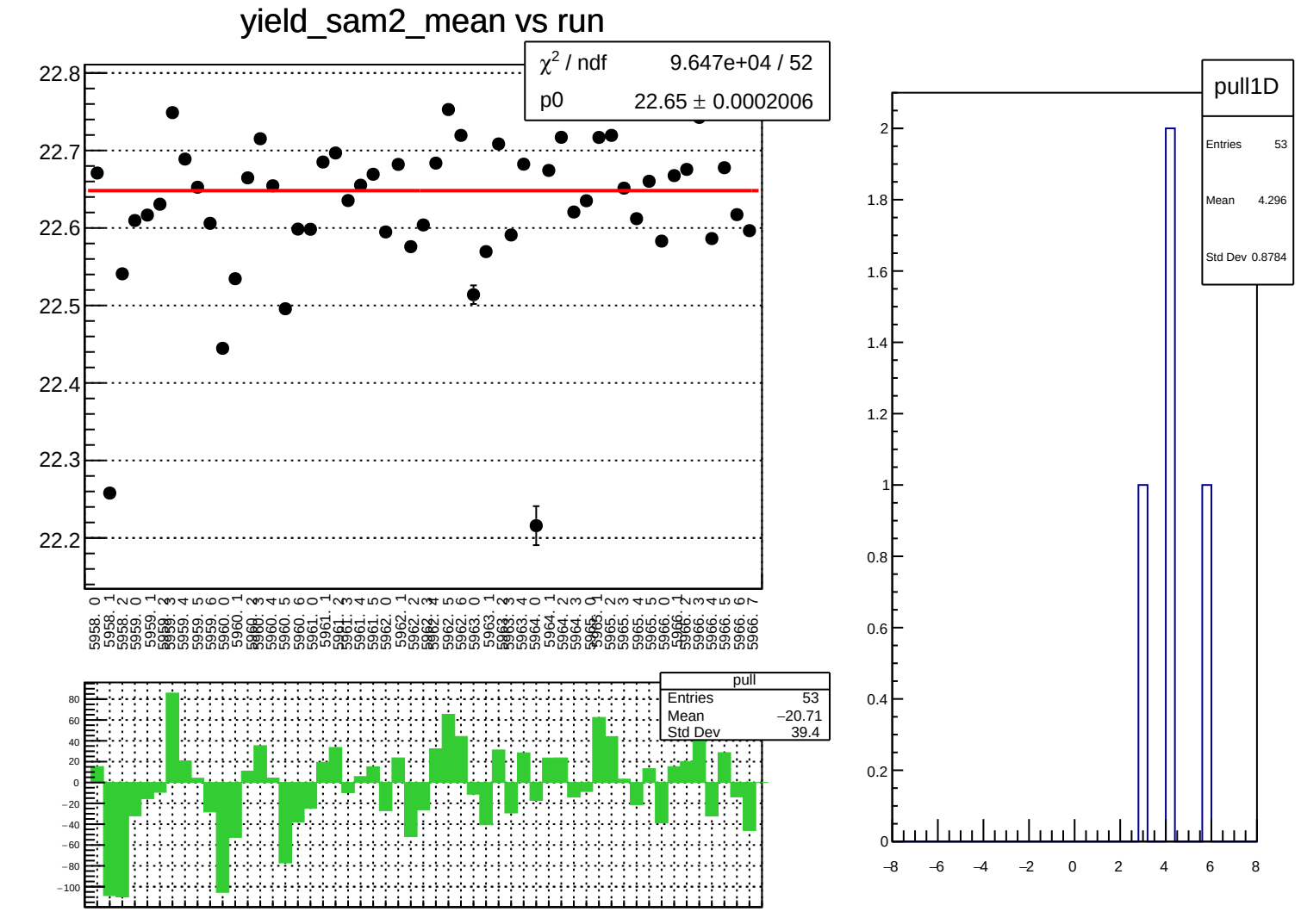

pull1D
Entries 53
Mean −0.002084
Std Dev 1.11

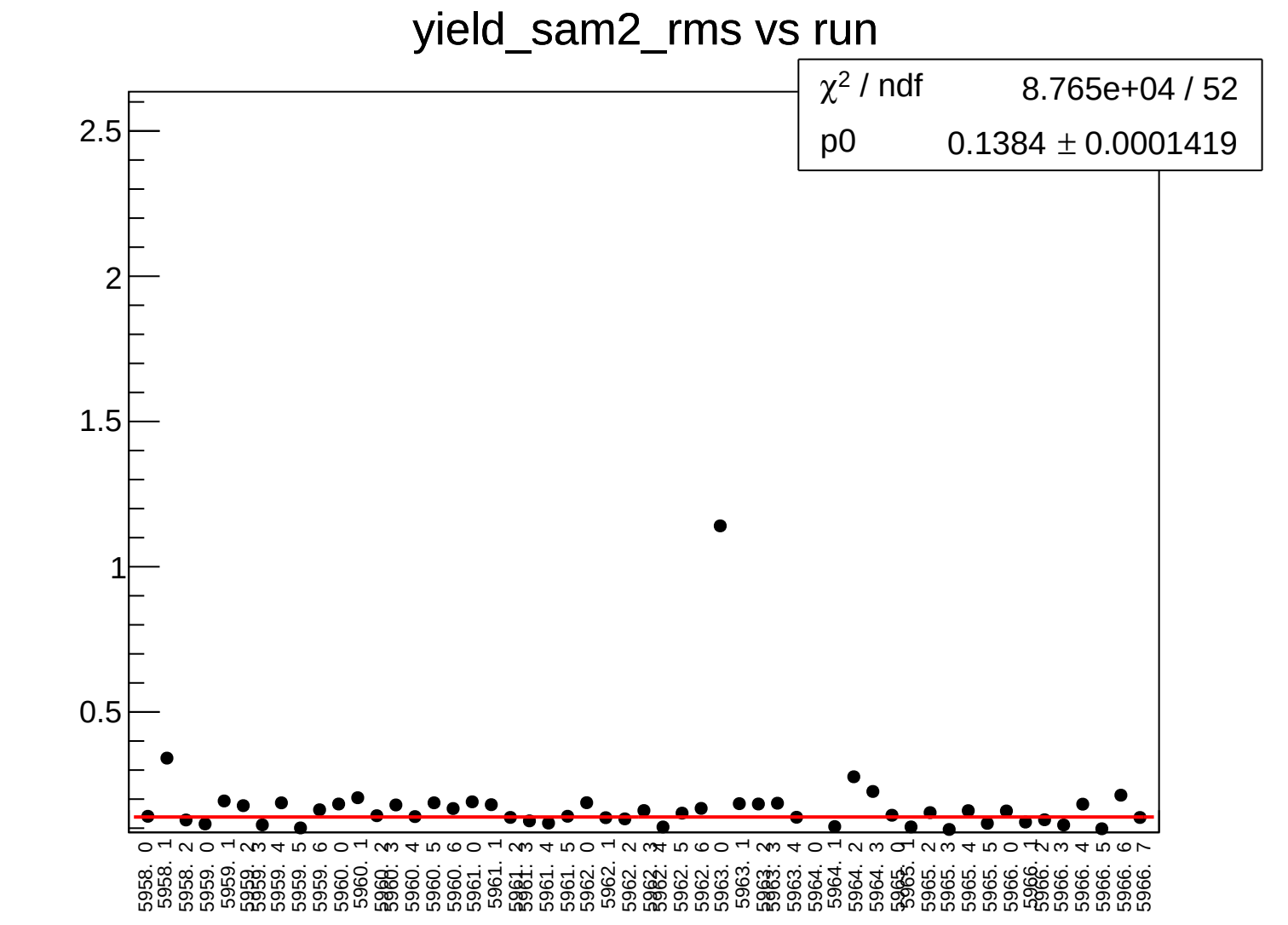

asym_sam8_rms vs run
χ² / ndf 2276 / 52
p0 524 ± 0.5145
600
580
560
540
520
500
480
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

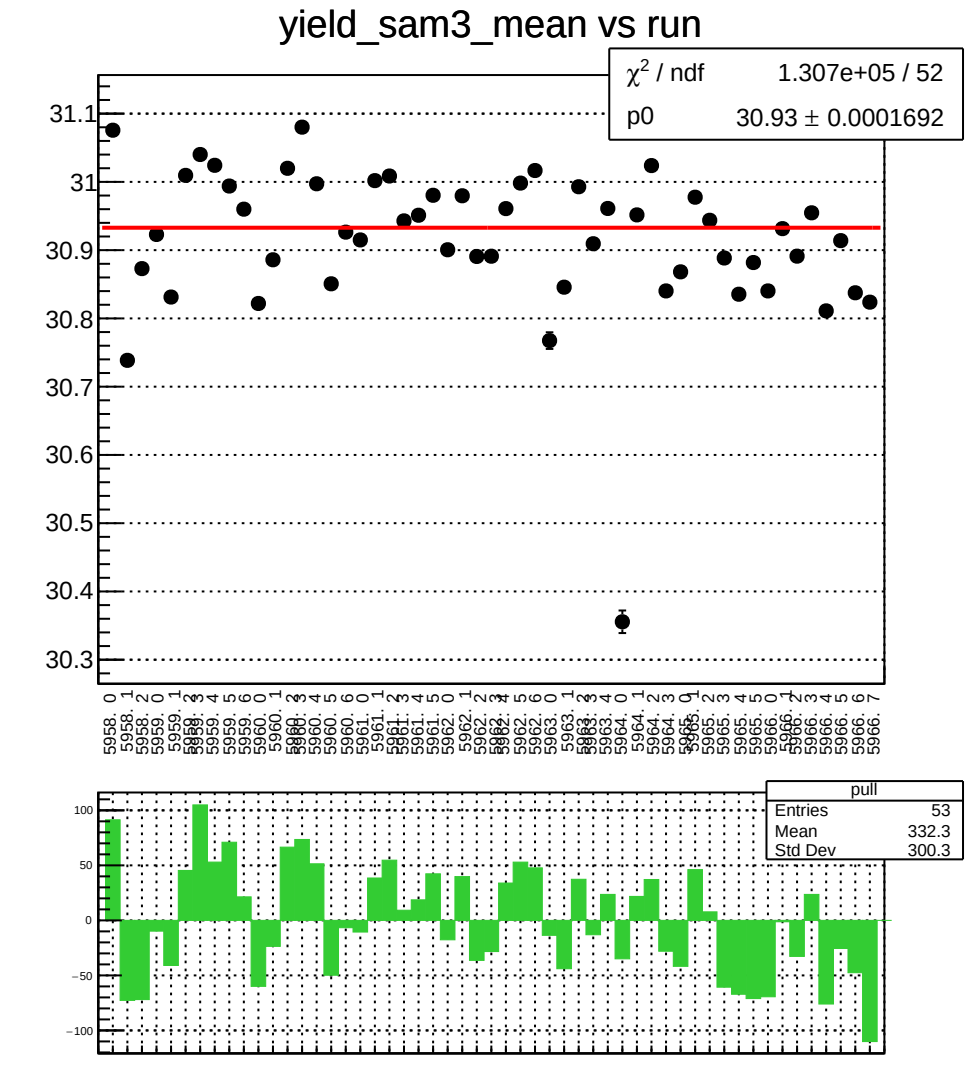

yield_sam1_mean vs run
χ² / ndf 4.532e+05 / 52
p0 15.92 ± 1.876e−05
15.96
15.95
15.94
15.93
15.92
15.91
15.9
15.89
pull
Entries 53
Mean 2506
Std Dev 2479
200
100
0
−100
−200

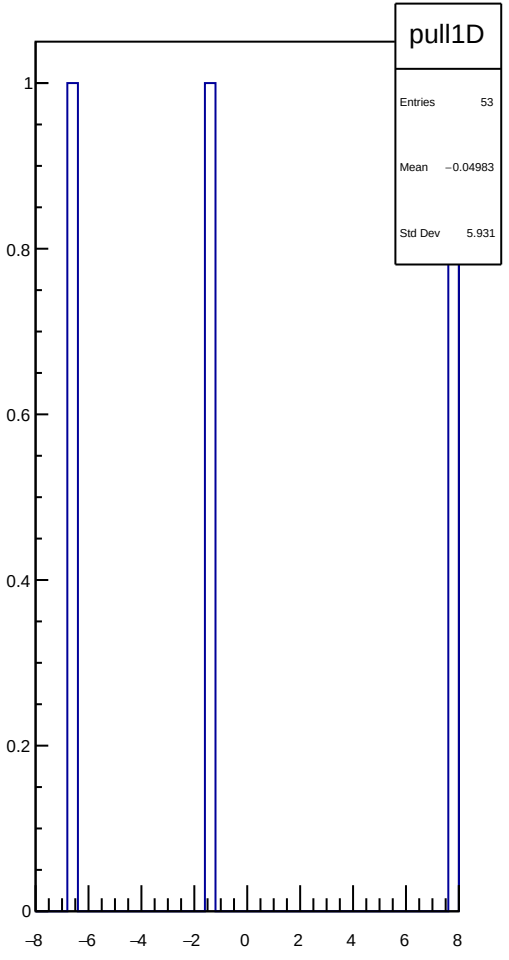

pull1D
Entries 53
Mean −0.9385
Std Dev 4.44
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

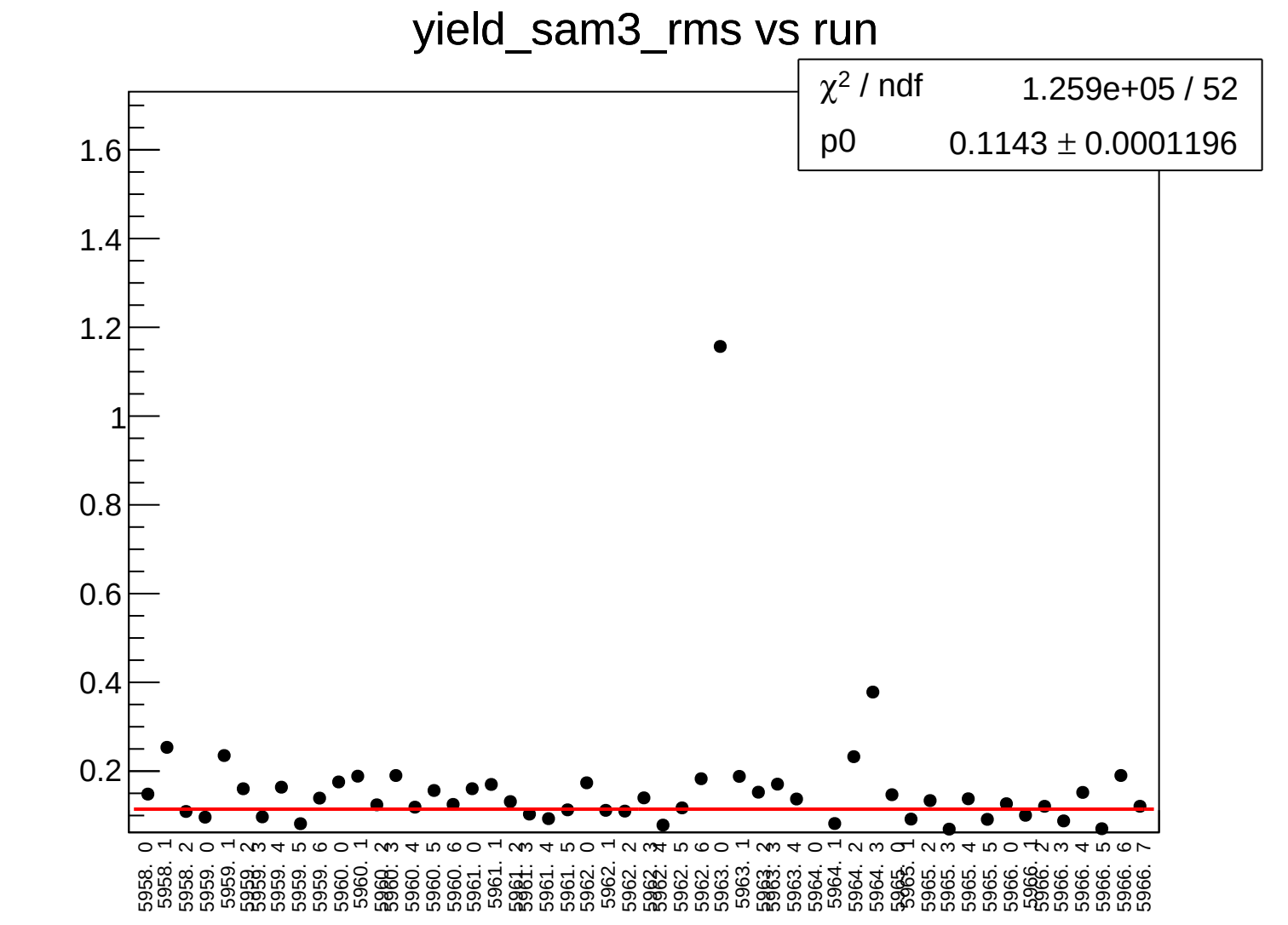

yield_sam1_rms vs run
χ² / ndf 3.641e+04 / 52
p0 0.01329 ± 1.327e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

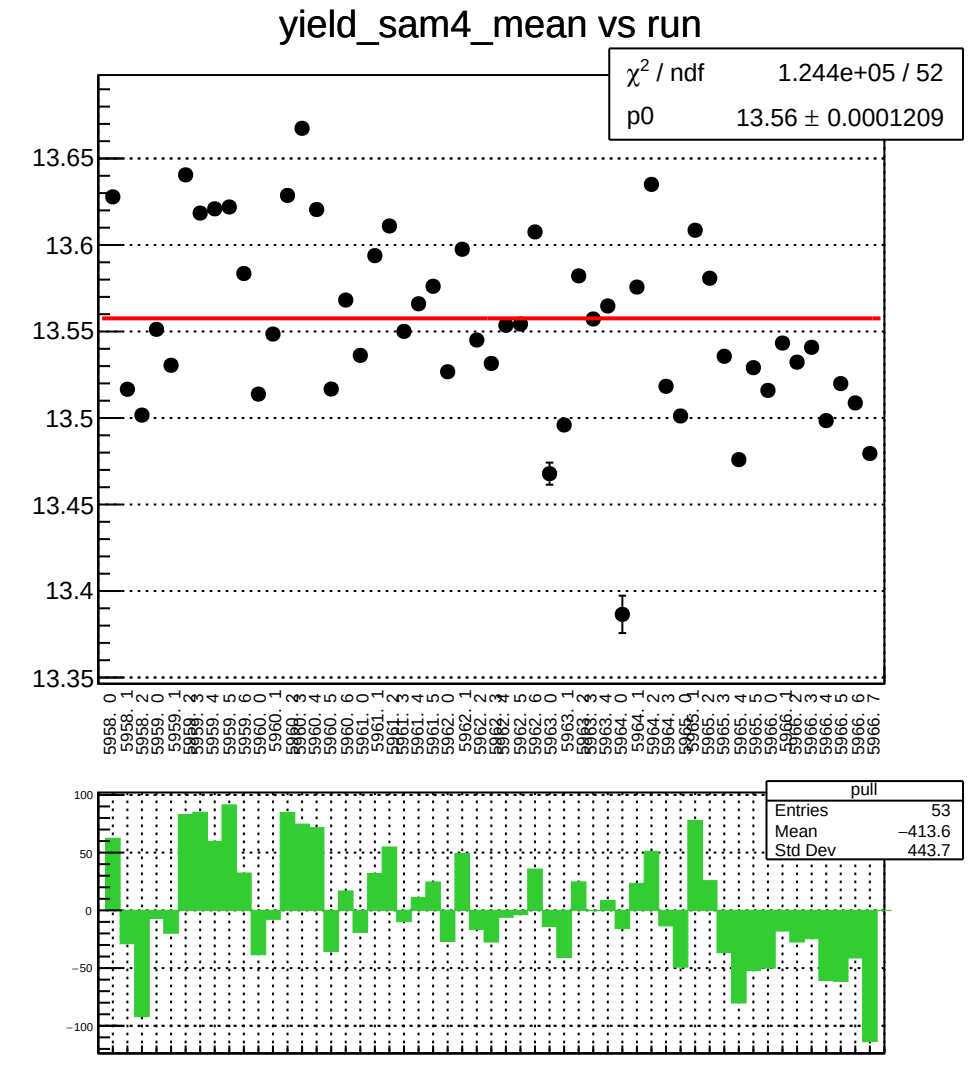

yield_sam2_mean vs run
χ² / ndf 9.647e+04 / 52
p0 22.65 ± 0.0002006
22.8
22.7
22.6
22.5
22.4
22.3
22.2
pull
Entries 53
Mean −20.71
Std Dev 39.4
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 53
Mean 4.296
Std Dev 0.8784
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

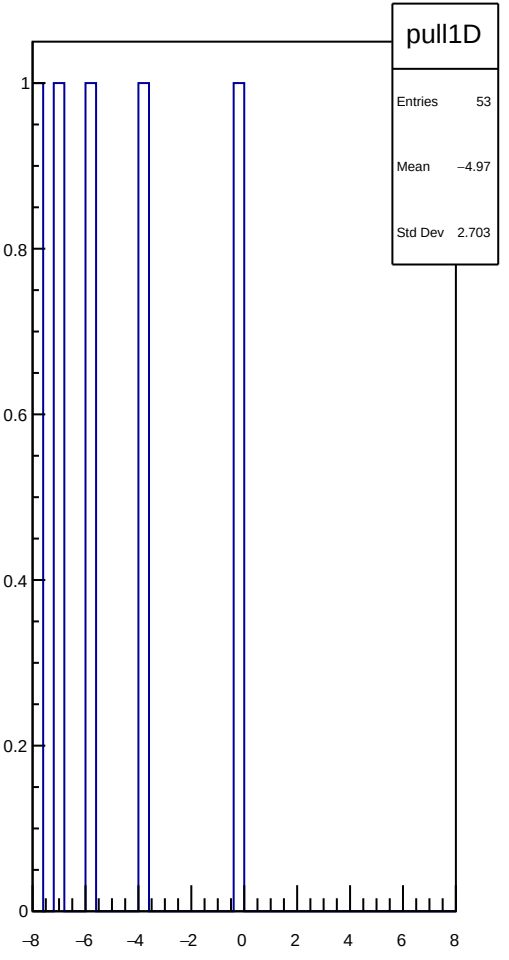

yield_sam2_rms vs run
χ² / ndf 8.765e+04 / 52
p0 0.1384 ± 0.0001419
2.5
2
1.5
1
0.5

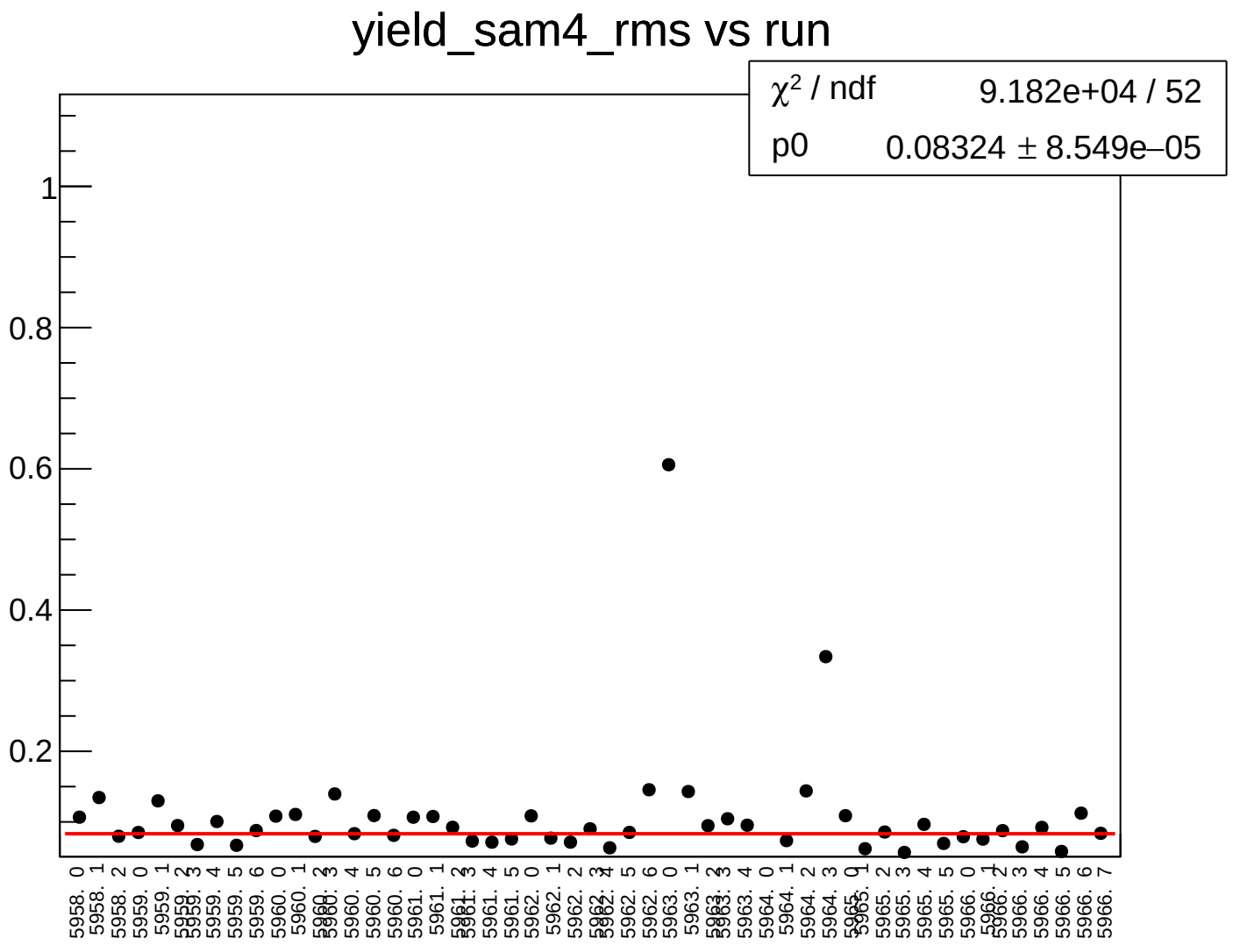

yield_sam3_mean vs run
χ² / ndf 1.307e+05 / 52
p0 30.93 ± 0.0001692
31.1
31
30.9
30.8
30.7
30.6
30.5
30.4
30.3
pull
Entries 53
Mean 332.3
Std Dev 300.3
100
50
0
−50
−100

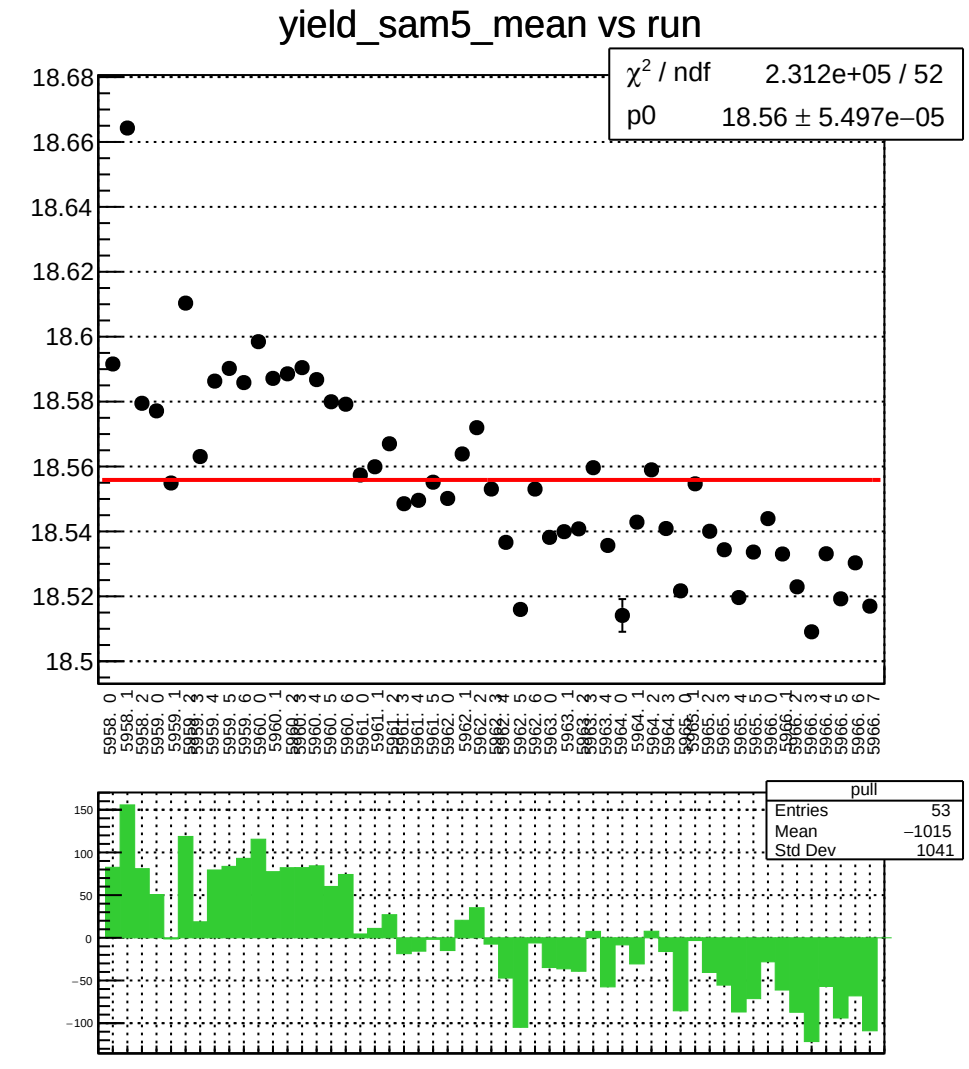

pull1D
Entries 53
Mean −0.04983
Std Dev 5.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

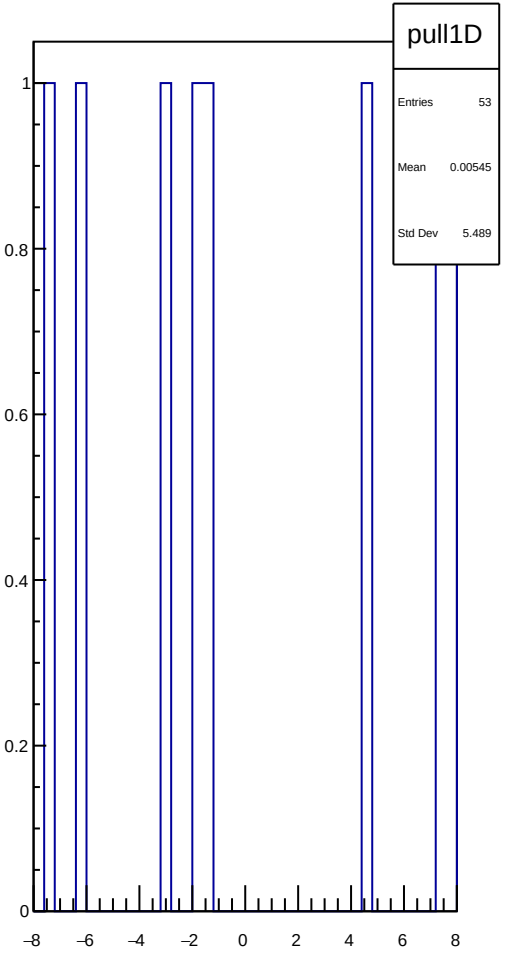

yield_sam3_rms vs run
χ² / ndf 1.259e+05 / 52
p0 0.1143 ± 0.0001196
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

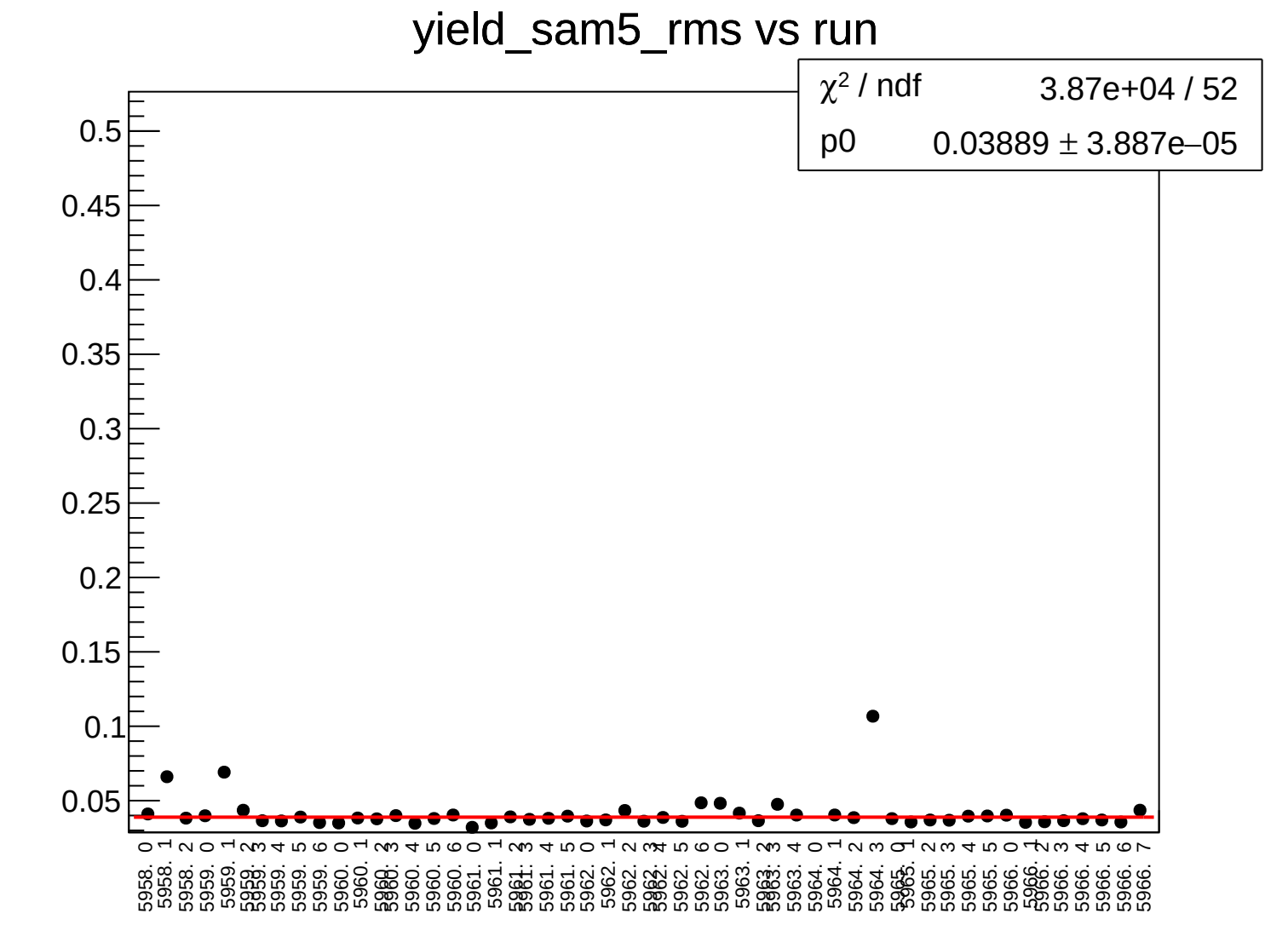

yield_sam4_mean vs run
χ² / ndf 1.244e+05 / 52
p0 13.56 ± 0.0001209
13.65
13.6
13.55
13.5
13.45
13.4
13.35
pull
Entries 53
Mean −413.6
Std Dev 443.7
100
50
0
−50
−100

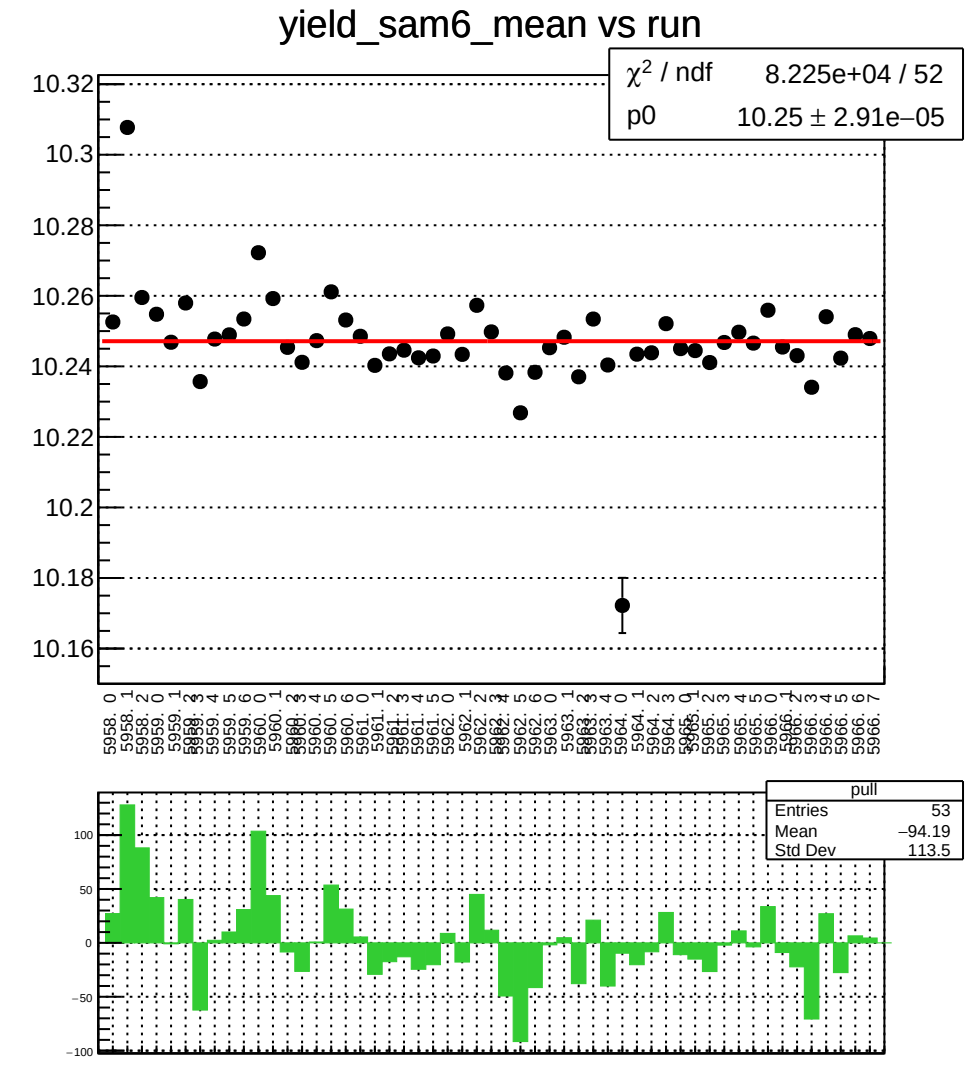

pull1D
Entries 53
Mean −4.97
Std Dev 2.703
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

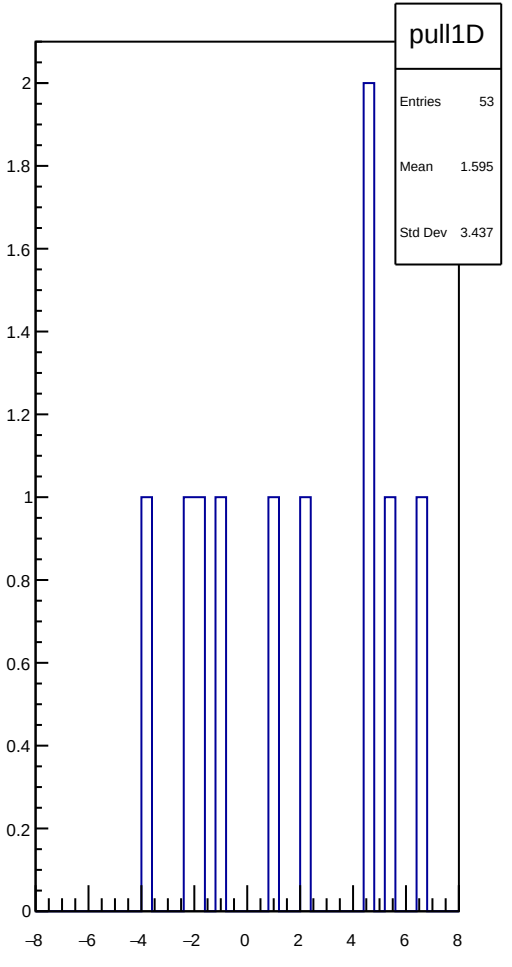

yield_sam4_rms vs run
χ² / ndf 9.182e+04 / 52
p0 0.08324 ± 8.549e−05
1
0.8
0.6
0.4
0.2
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

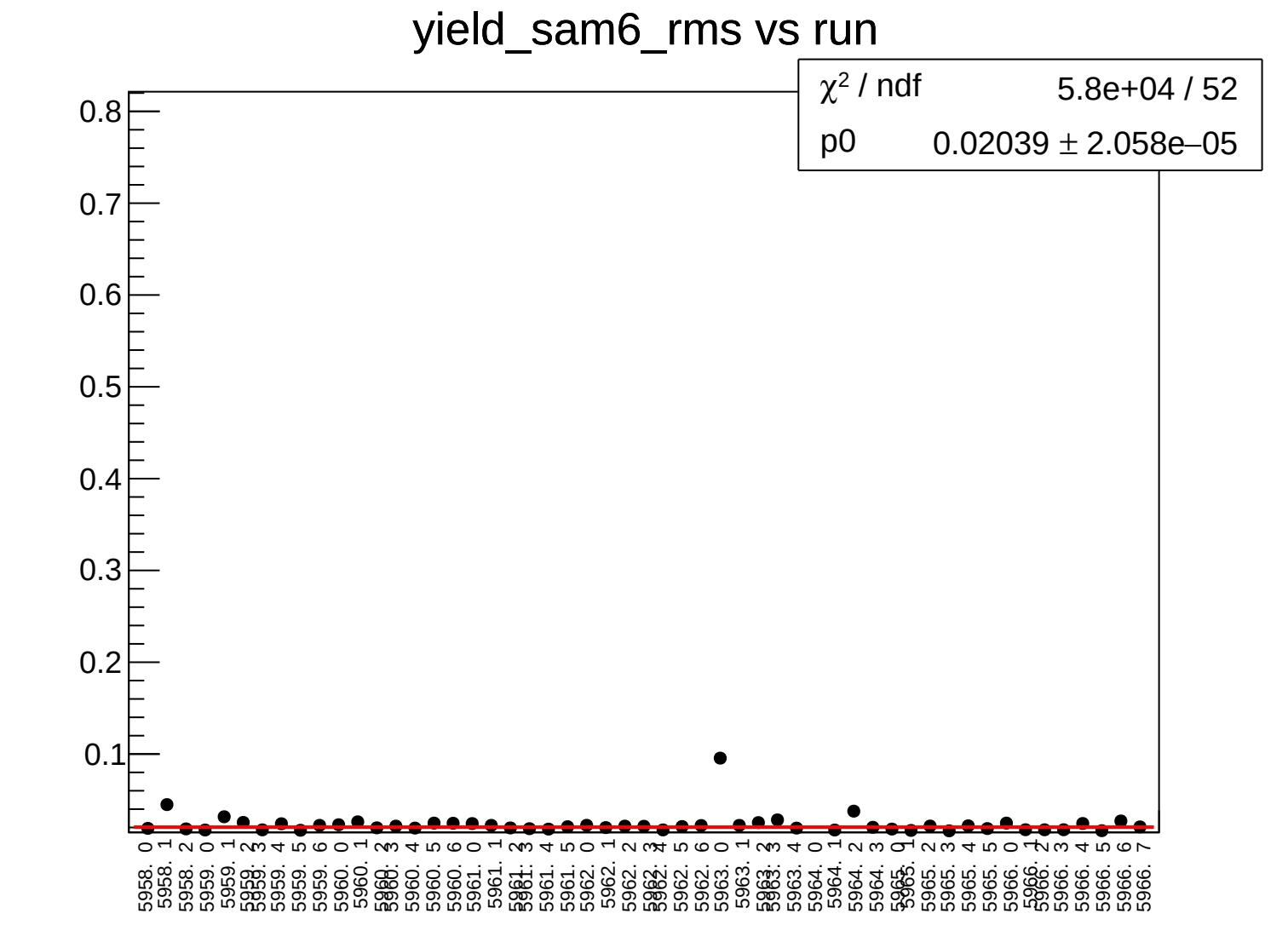

yield_sam5_mean vs run
χ² / ndf 2.312e+05 / 52
p0 18.56 ± 5.497e−05
18.68
18.66
18.64
18.62
18.6
18.58
18.56
18.54
18.52
18.5
pull
Entries 53
Mean −1015
Std Dev 1041
150
100
50
0
−50
−100


pull1D
Entries 53
Mean 0.00545
Std Dev 5.489
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 3.87e+04 / 52
p0 0.03889 ± 3.887e−05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05


yield_sam6_mean vs run
χ² / ndf 8.225e+04 / 52
p0 10.25 ± 2.91e−05
10.32
10.3
10.28
10.26
10.24
10.22
10.2
10.18
10.16
pull
Entries 53
Mean −94.19
Std Dev 113.5
100
50
0
−50
−100


pull1D
Entries 53
Mean 1.595
Std Dev 3.437
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_sam6_rms vs run
χ² / ndf 5.8e+04 / 52
p0 0.02039 ± 2.058e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
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5966. 0
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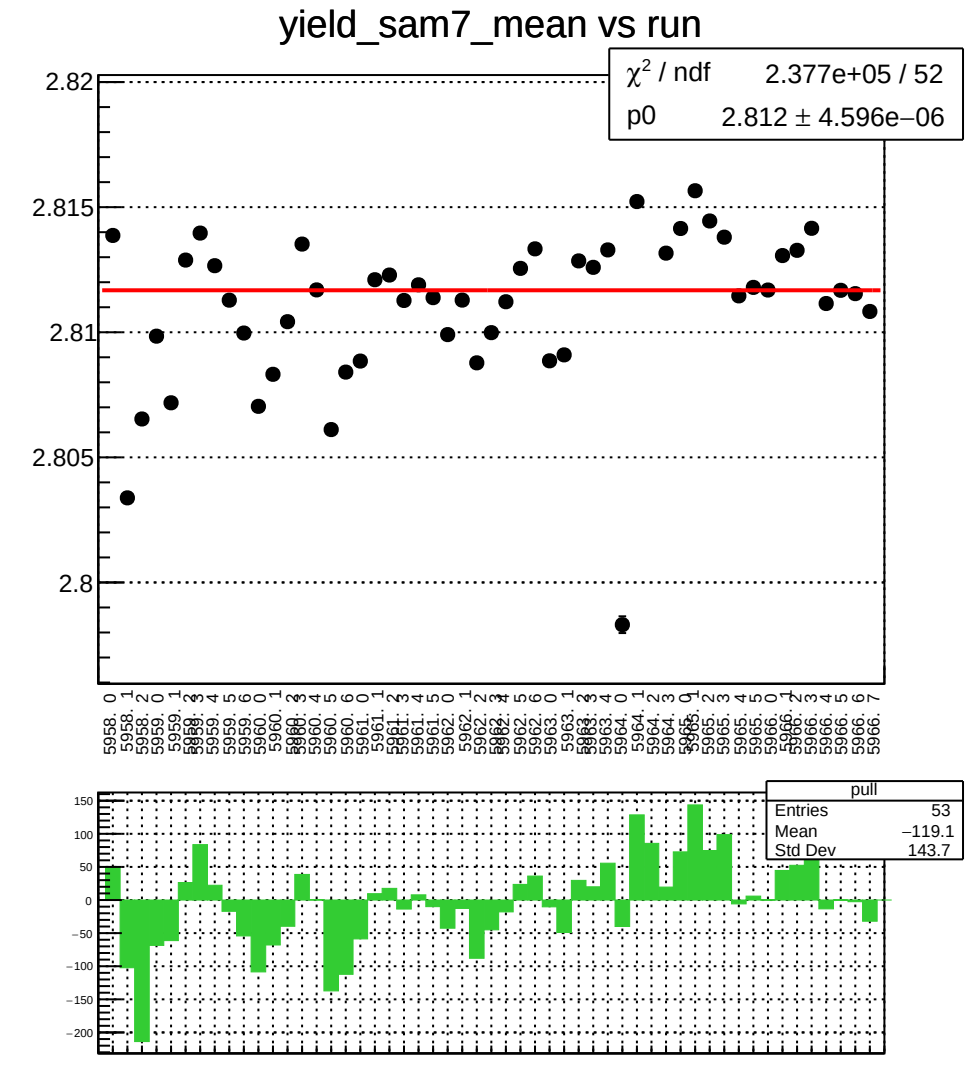
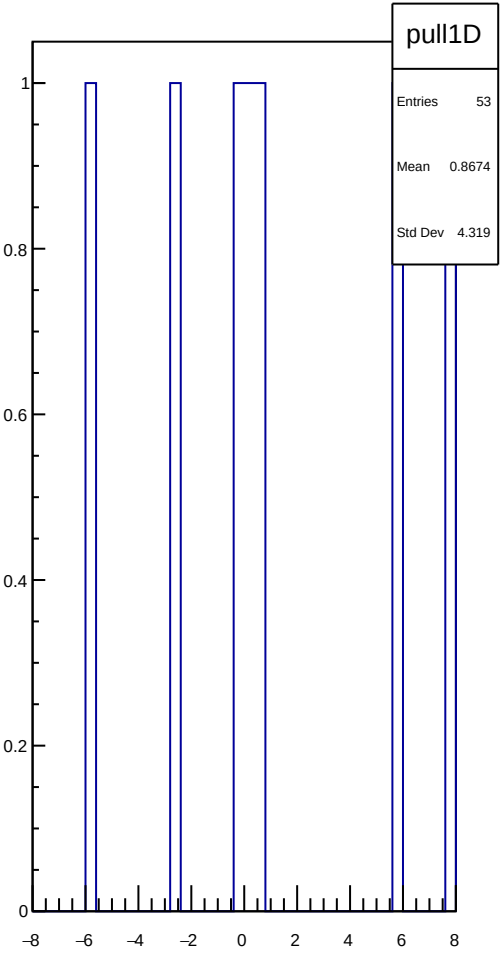
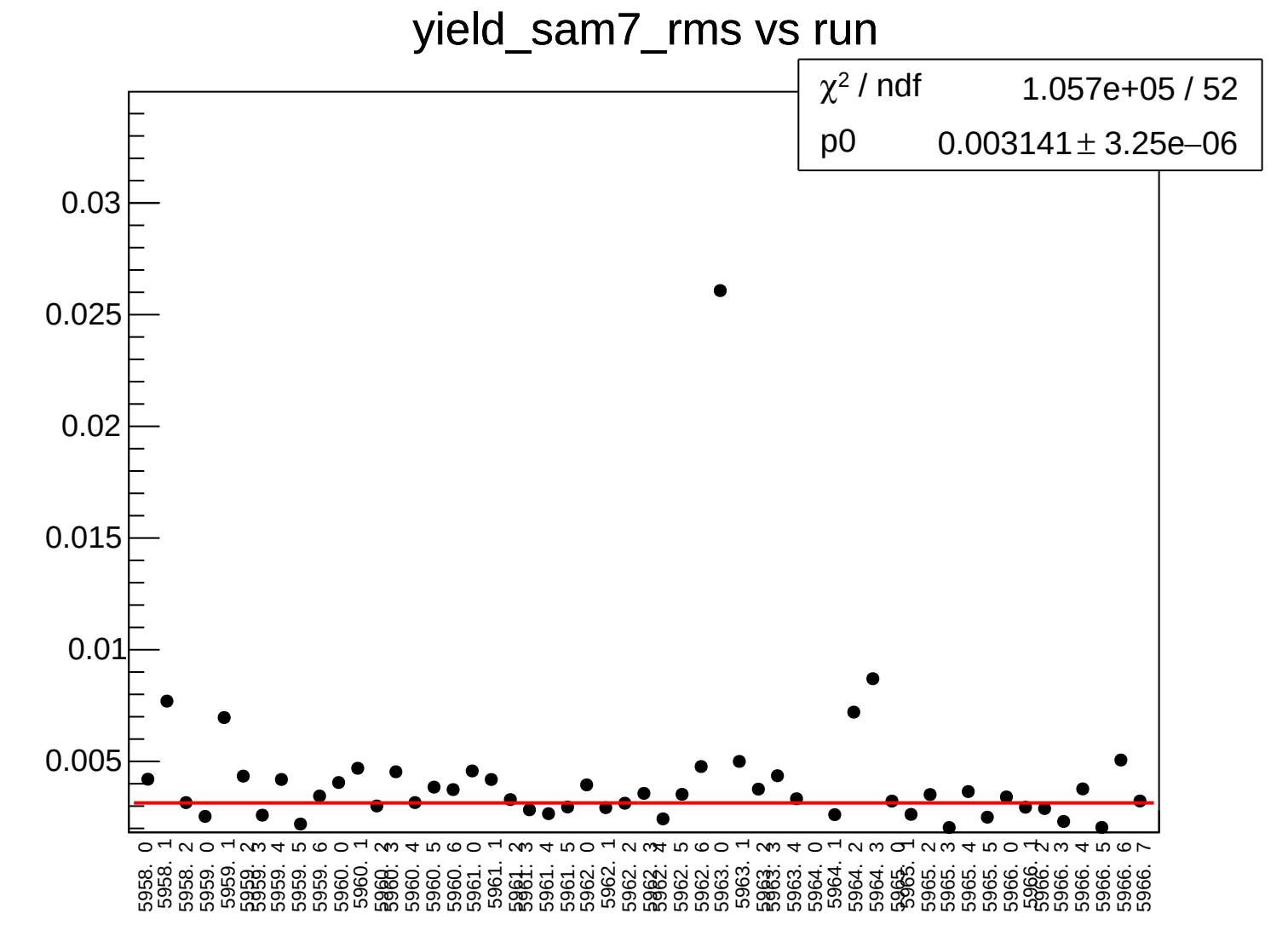
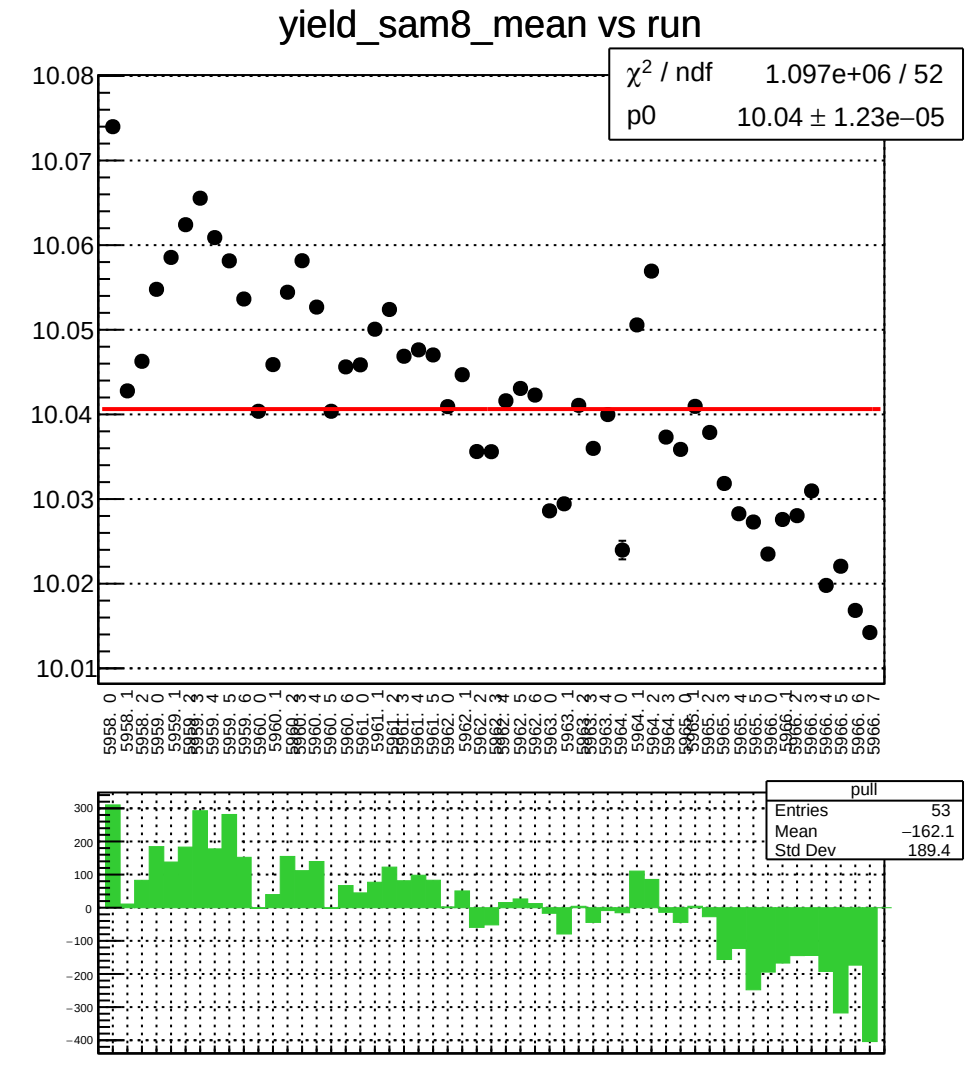
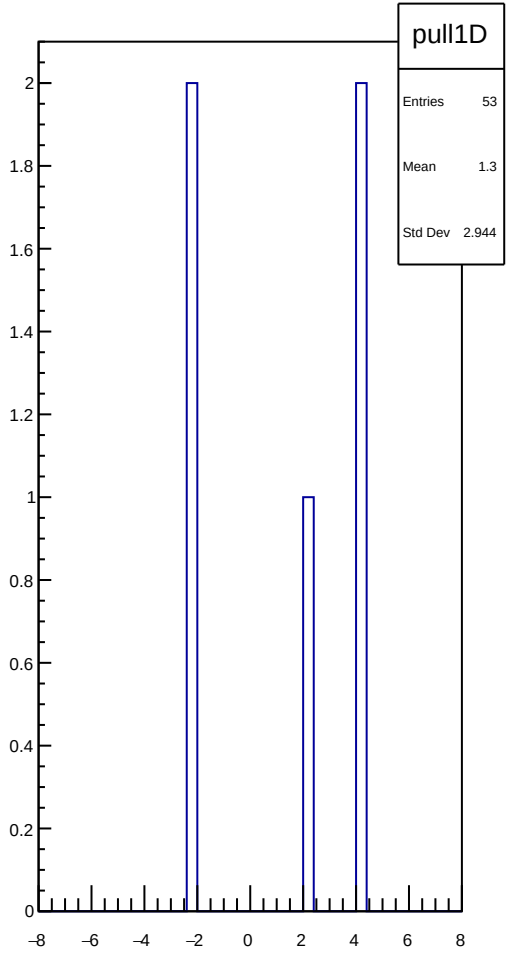
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

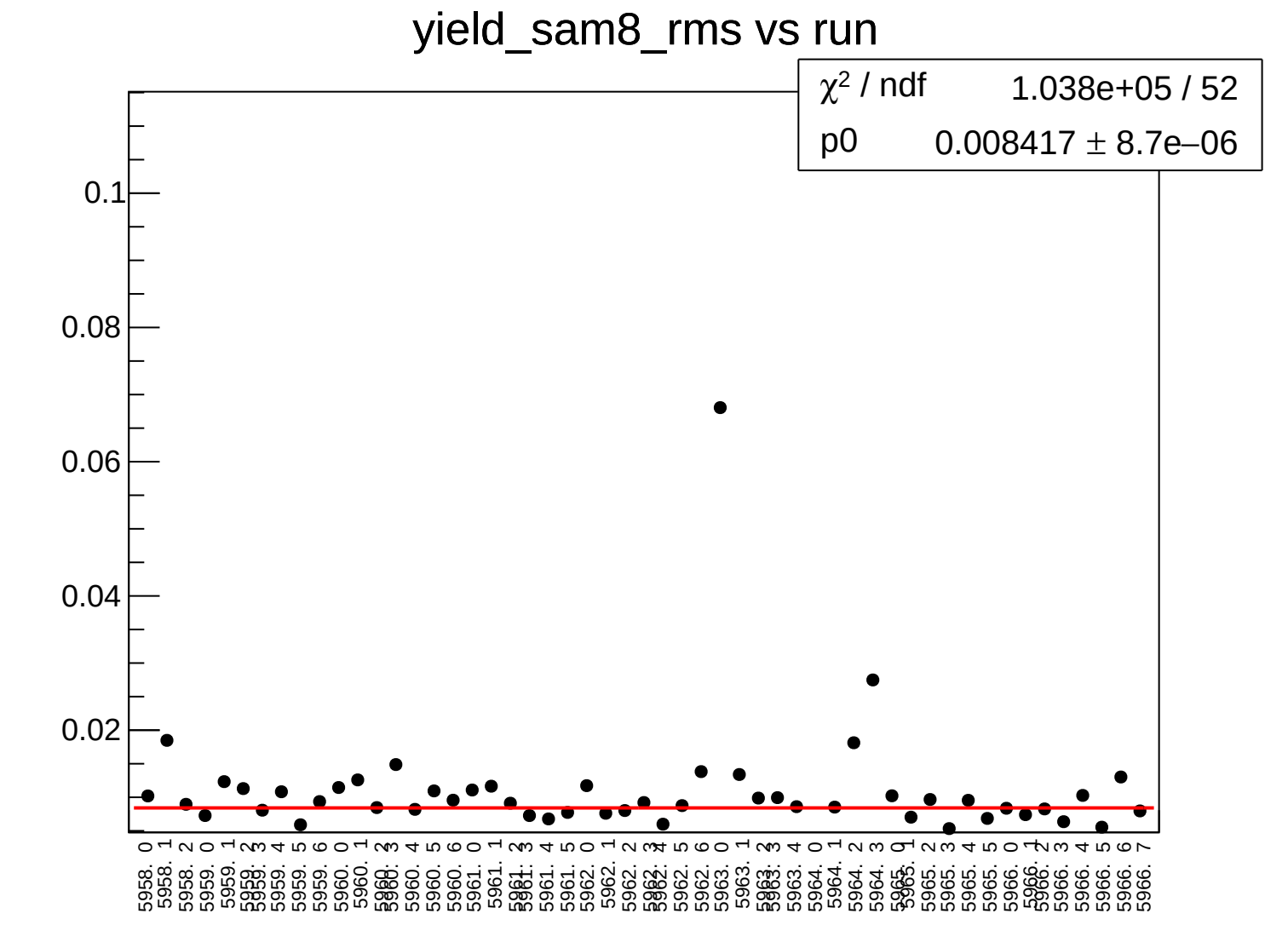

yield_sam7_mean vs run
χ² / ndf 2.377e+05 / 52
p0 2.812 ± 4.596e−06
2.82
2.815
2.81
2.805
2.8
pull
Entries 53
Mean −119.1
Std Dev 143.7
150
100
50
0
−50
−100
−150
−200

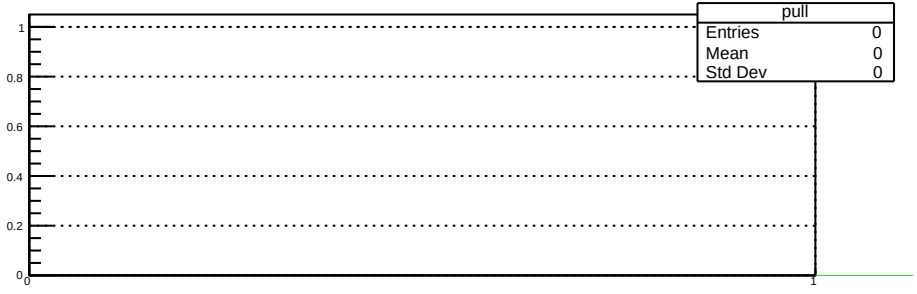

pull1D
Entries 53
Mean 0.8674
Std Dev 4.319
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

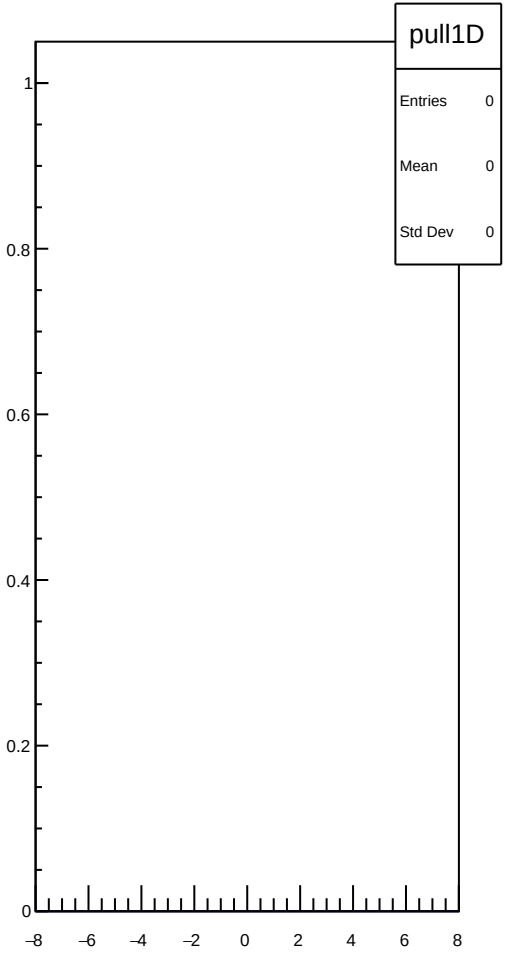

yield_sam7_rms vs run
χ² / ndf 1.057e+05 / 52
p0 0.003141 ± 3.25e–06
0.03
0.025
0.02
0.015
0.01
0.005

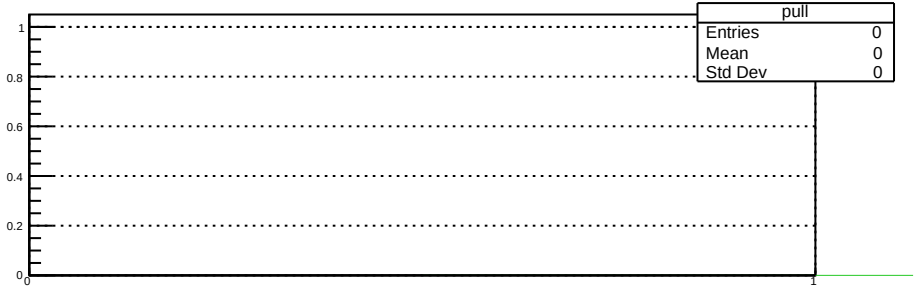

yield_sam8_mean vs run
χ² / ndf 1.097e+06 / 52
p0 10.04 ± 1.23e−05
10.08
10.07
10.06
10.05
10.04
10.03
10.02
10.01
pull
Entries 53
Mean −162.1
Std Dev 189.4
300
200
100
0
−100
−200
−300
−400

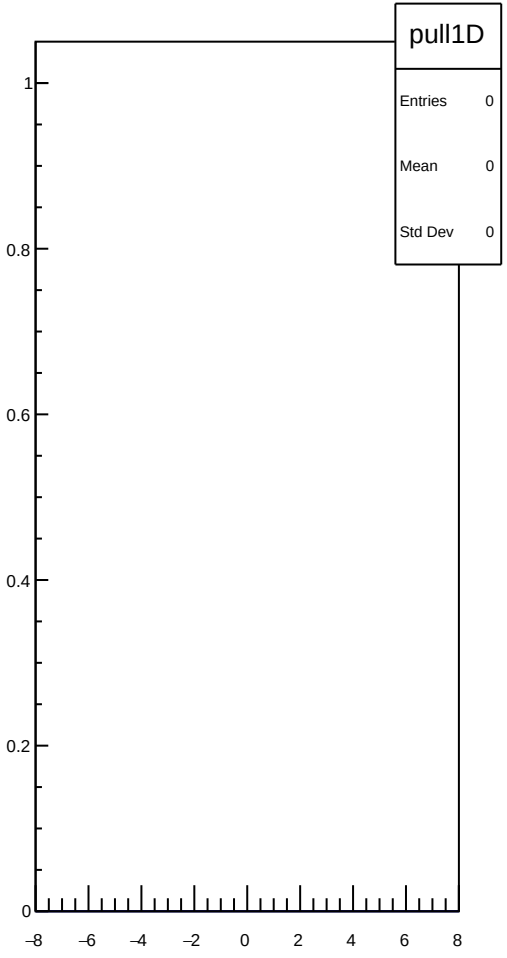

pull1D
Entries 53
Mean 1.3
Std Dev 2.944
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

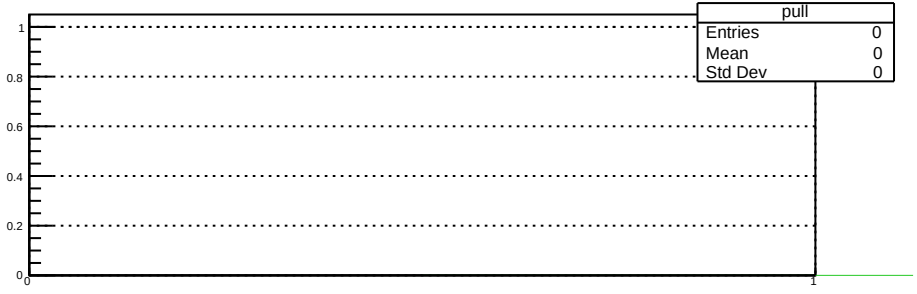

yield_sam8_rms vs run
χ² / ndf 1.038e+05 / 52
p0 0.008417 ± 8.7e–06
0.1
0.08
0.06
0.04
0.02

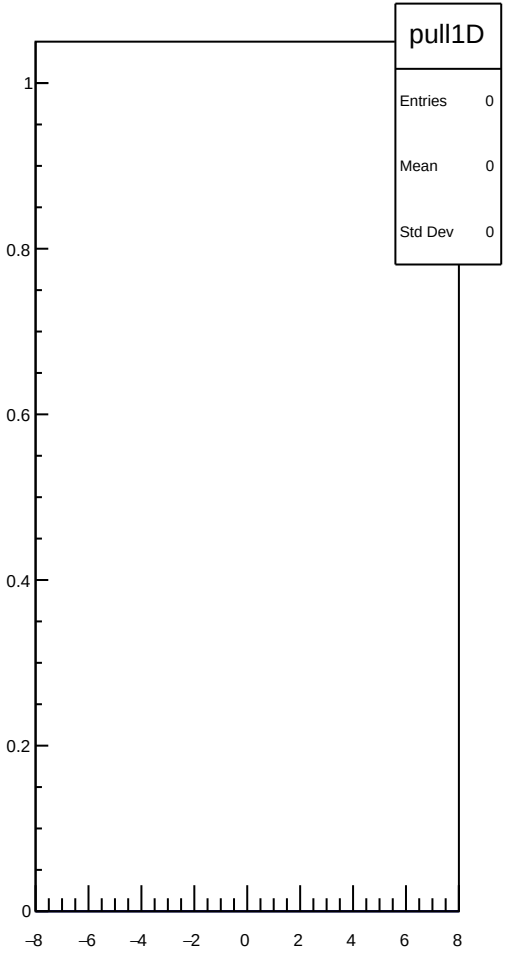

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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
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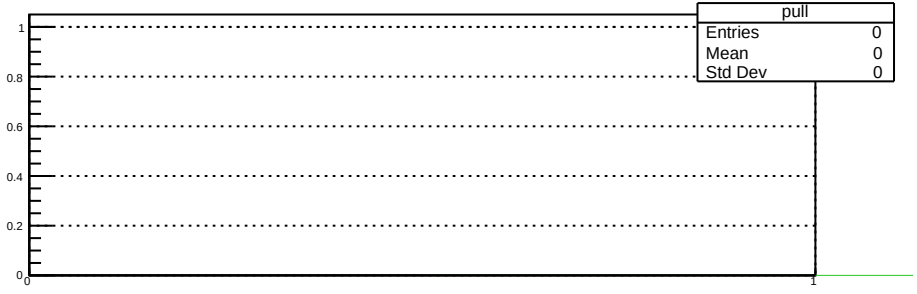
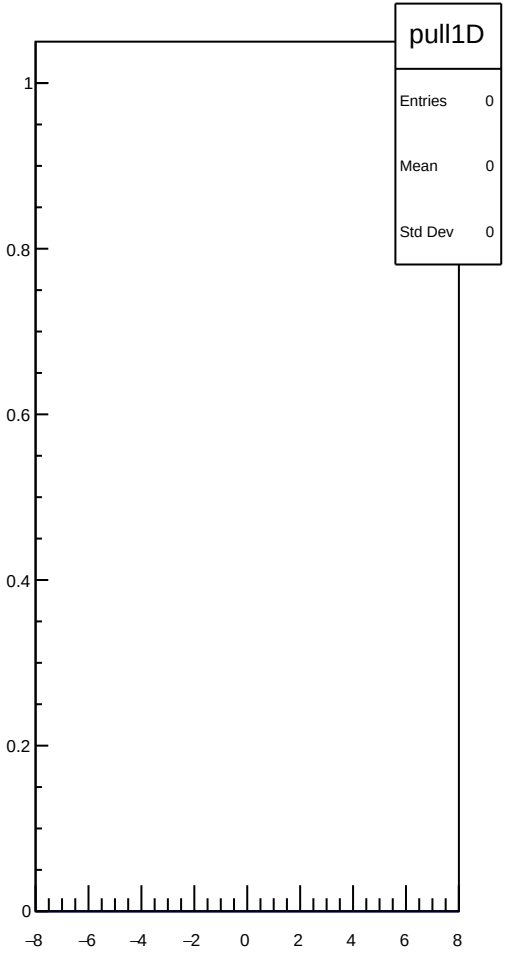
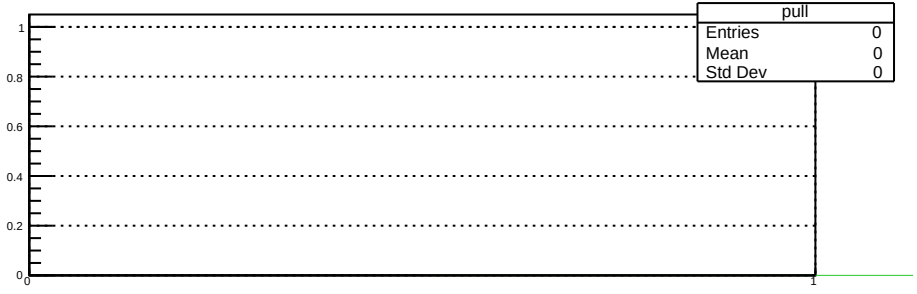
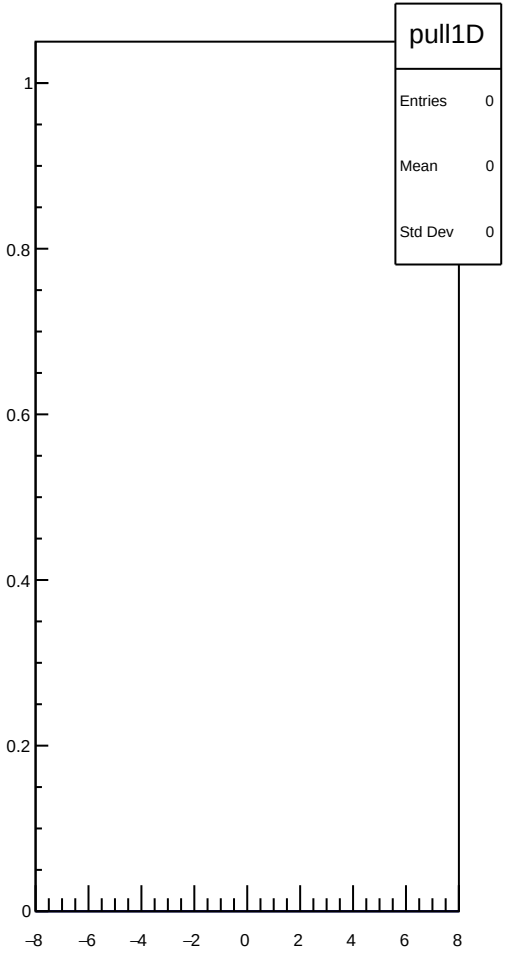
0
2
4
6
8


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
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–6
–4
–2
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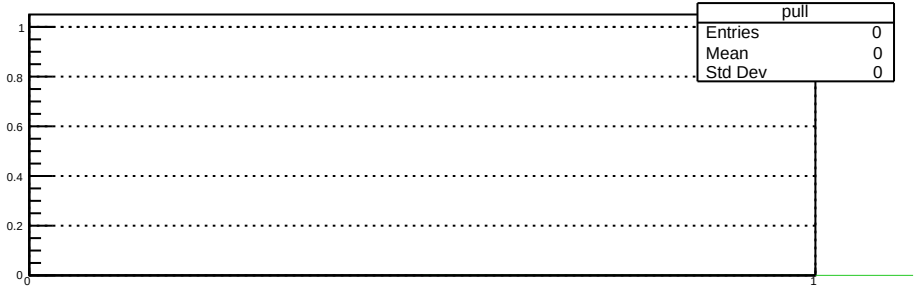
2
4
6
8


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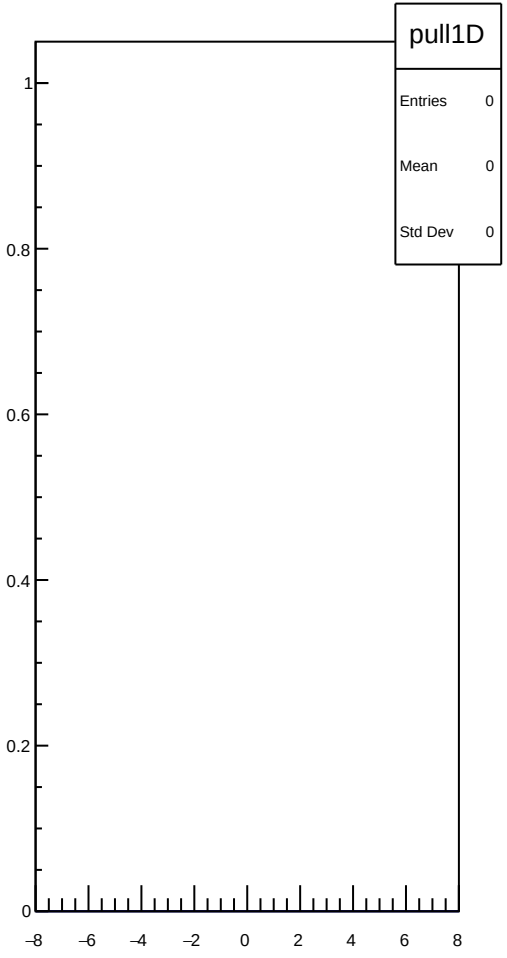
0
1


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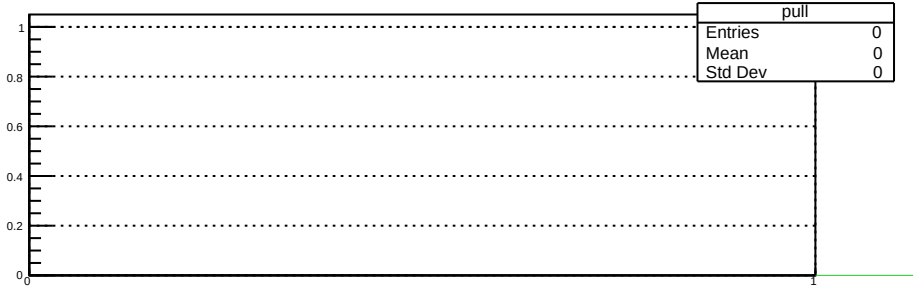
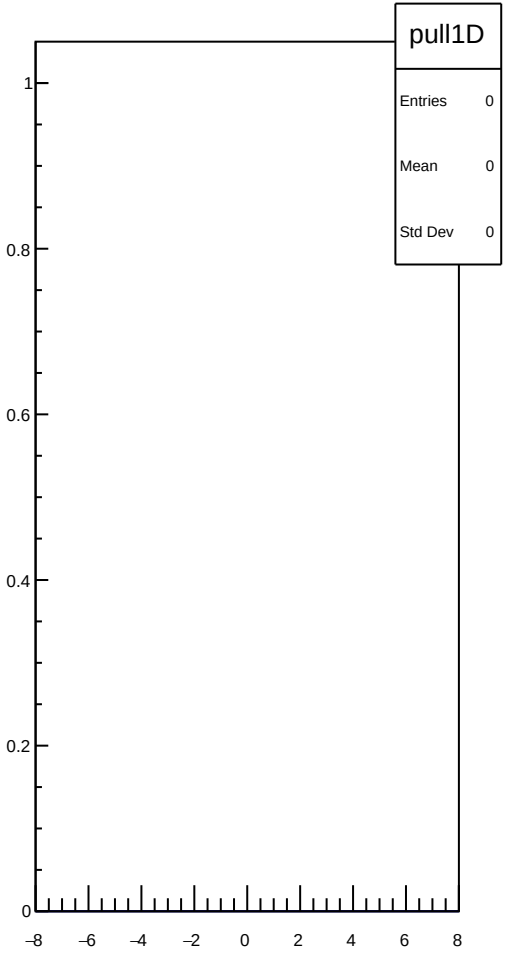
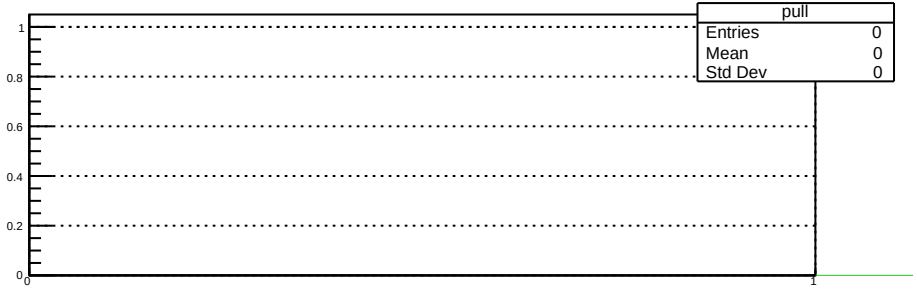
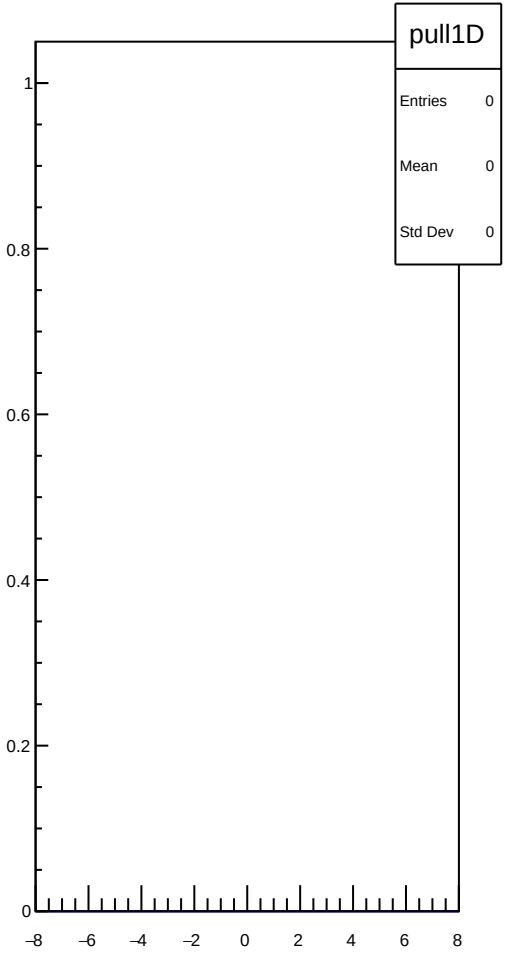
–6
–4
–2
0
2
4
6
8


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
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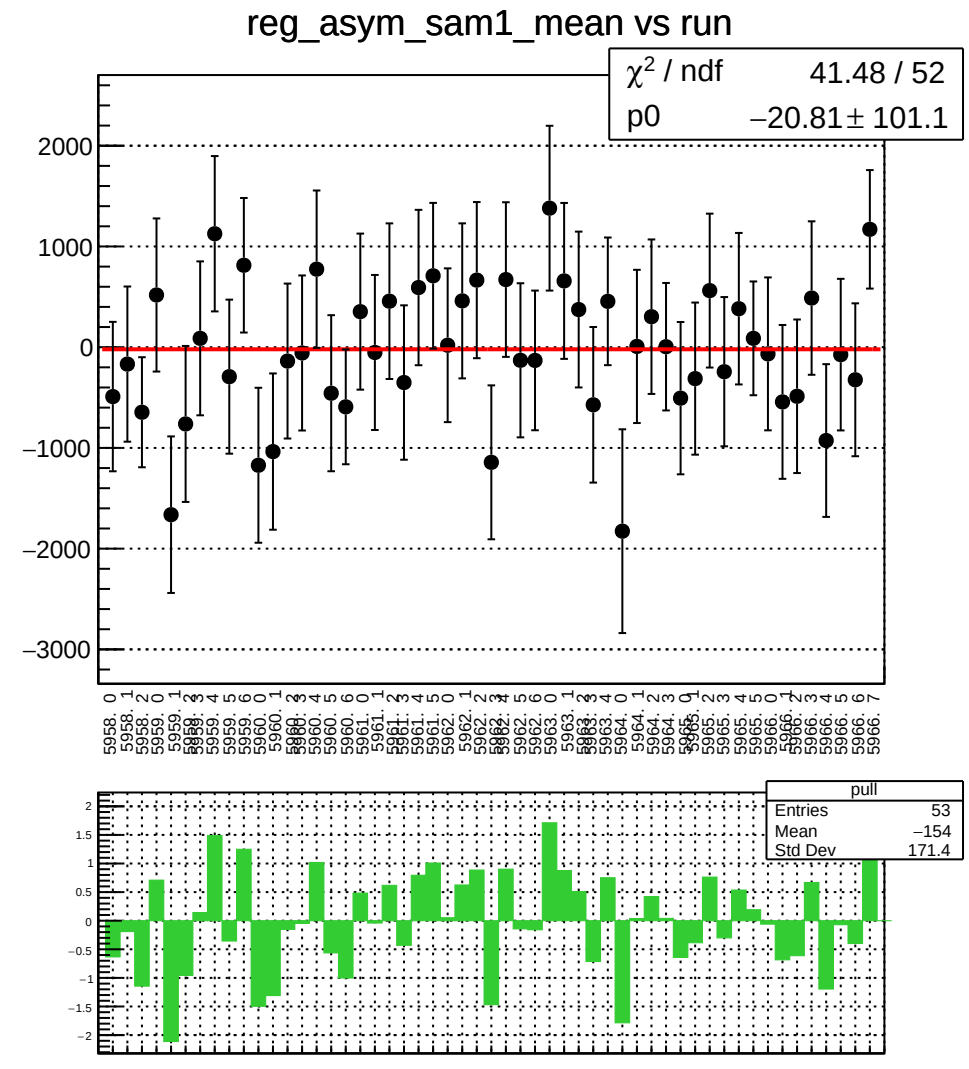
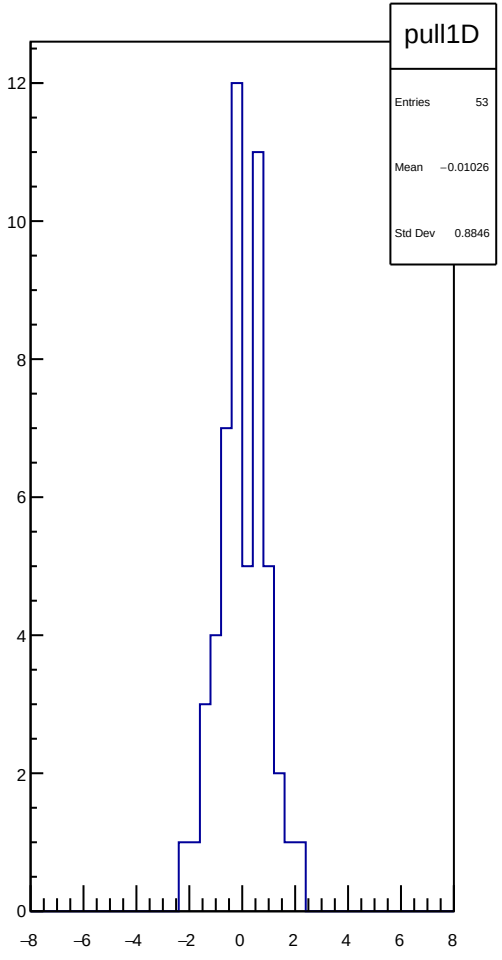
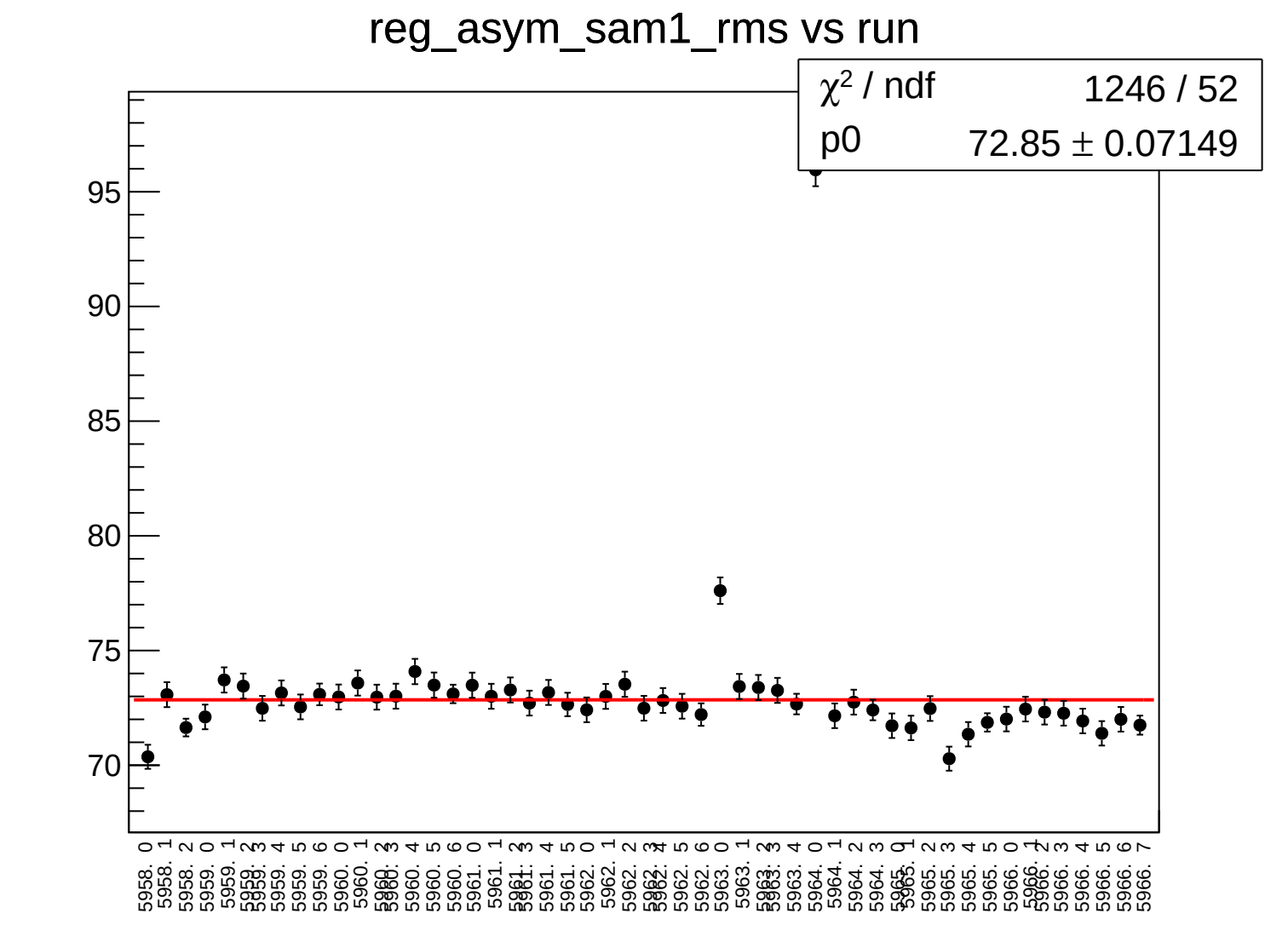
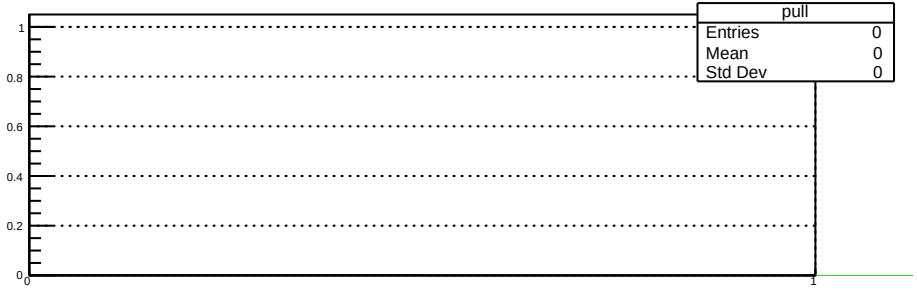
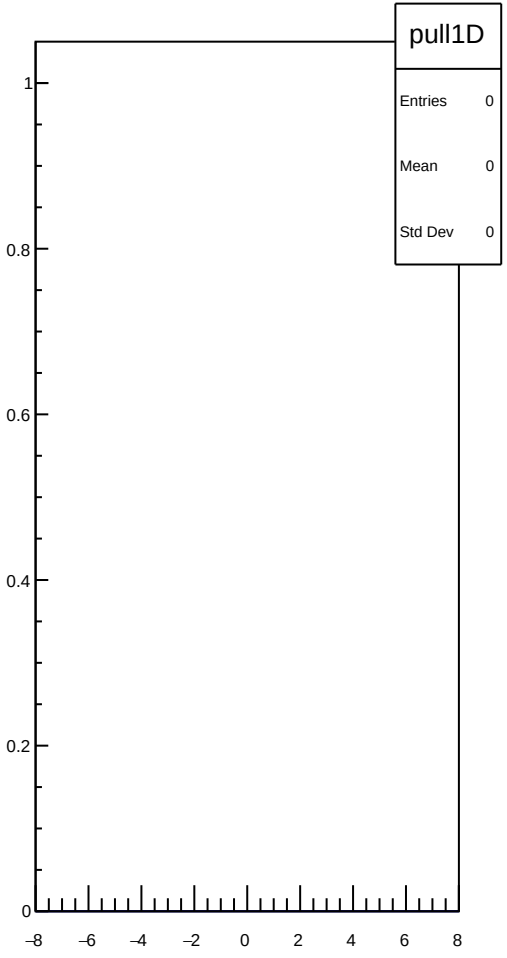
2
4
6
8


reg_asym_sam1_mean vs run
χ² / ndf 41.48 / 52
p0 −20.81 ± 101.1
pull
Entries 53
Mean −154
Std Dev 171.4


pull1D
Entries 53
Mean −0.01026
Std Dev 0.8846


reg_asym_sam1_rms vs run
χ^2 / ndf 1246 / 52
p0 72.85 ± 0.07149
95
90
85
80
75
70


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
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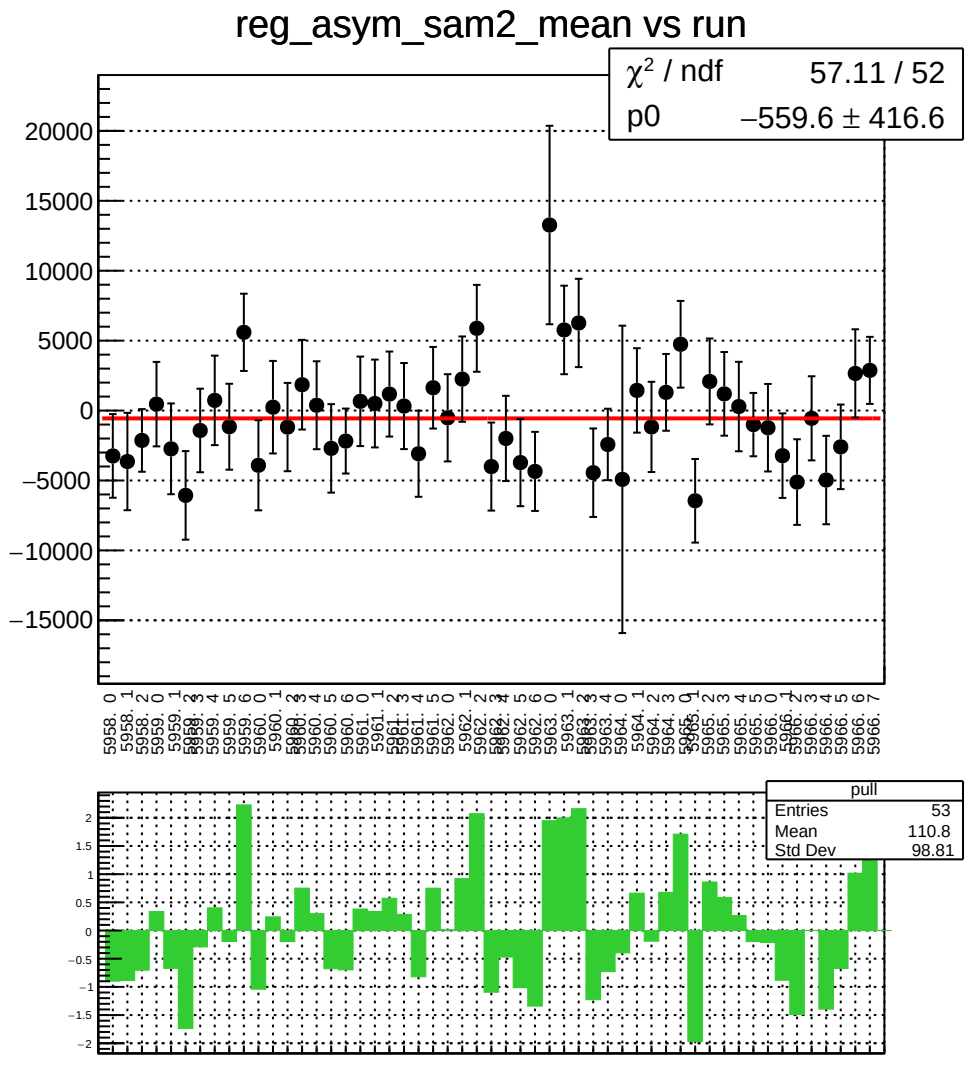
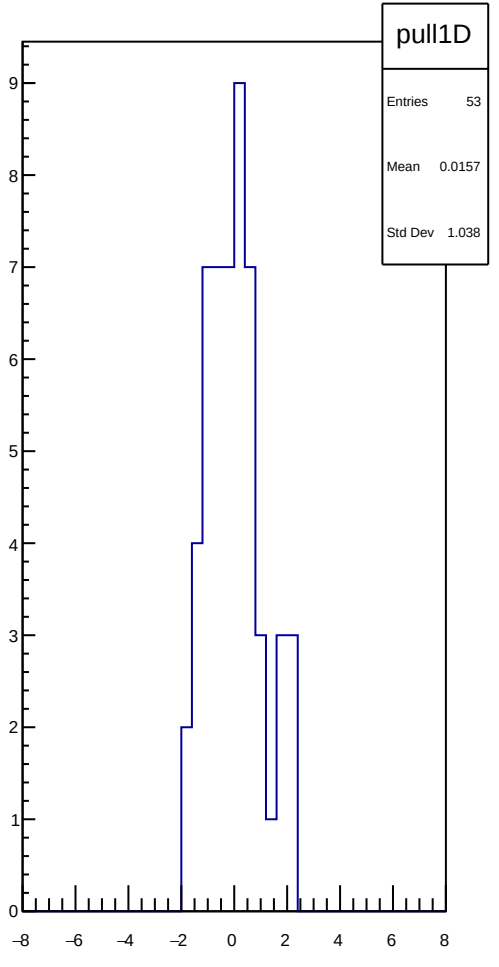
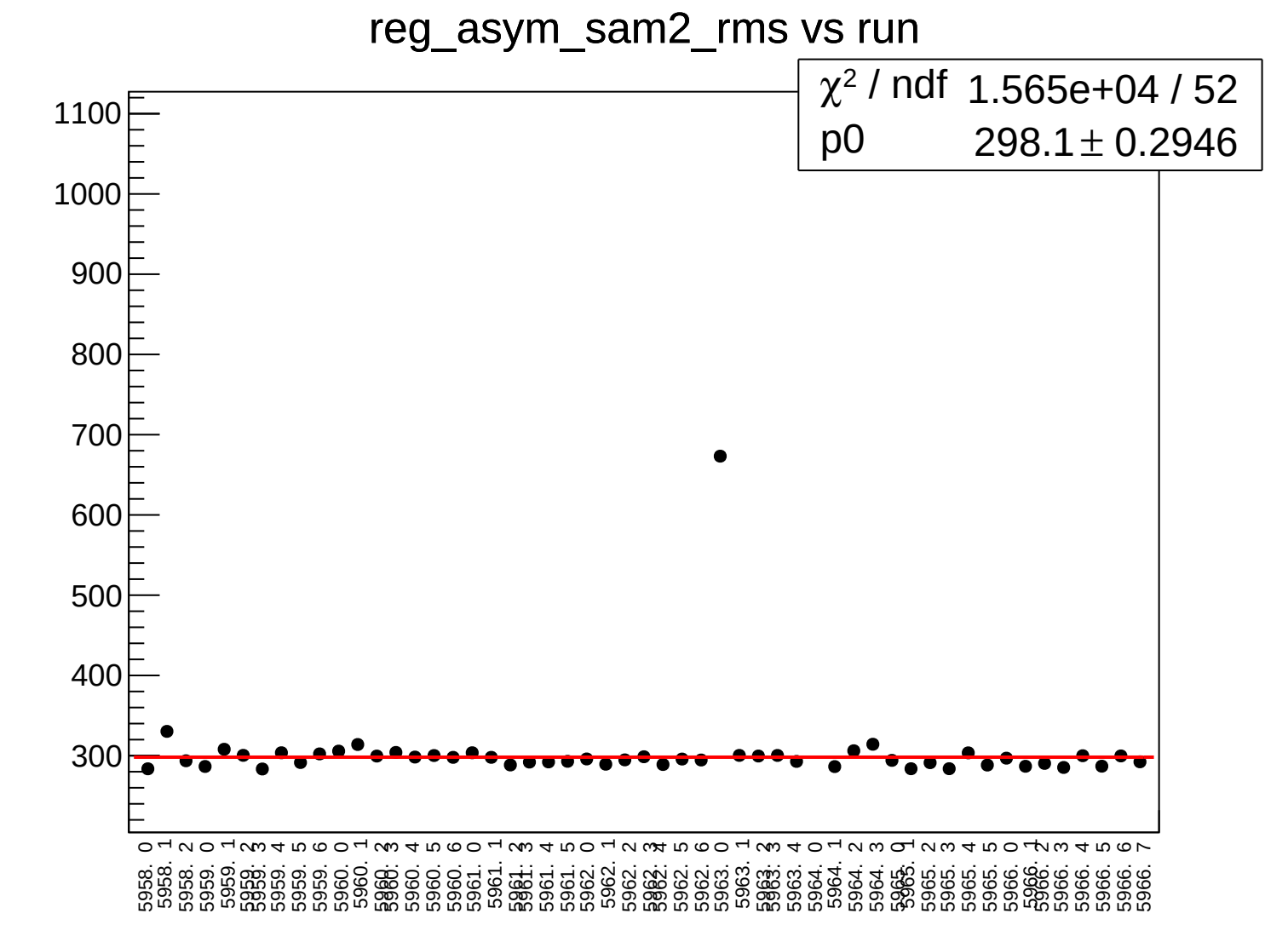
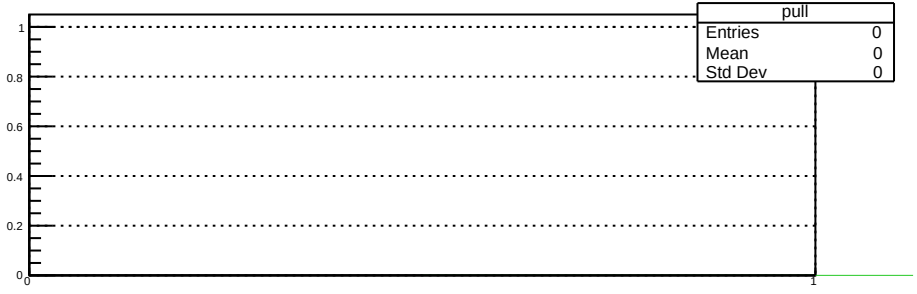
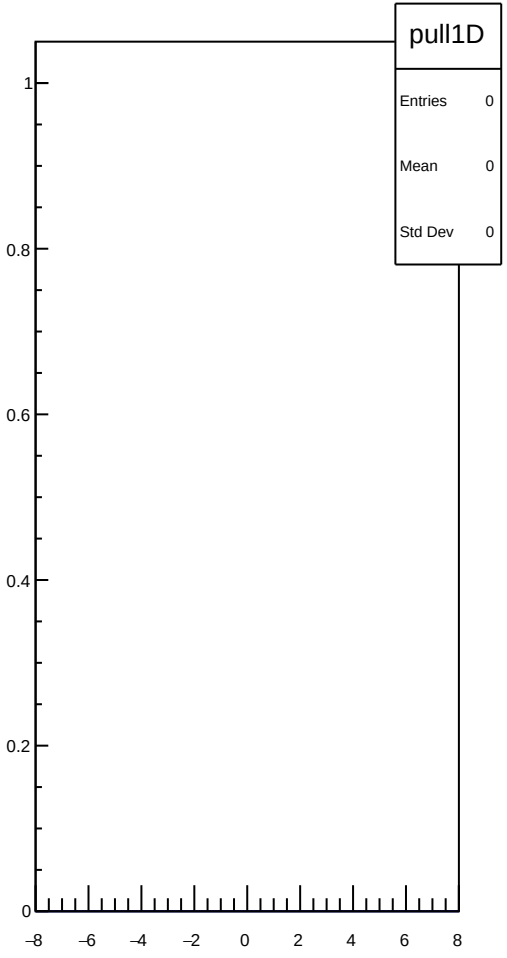
0
2
4
6
8

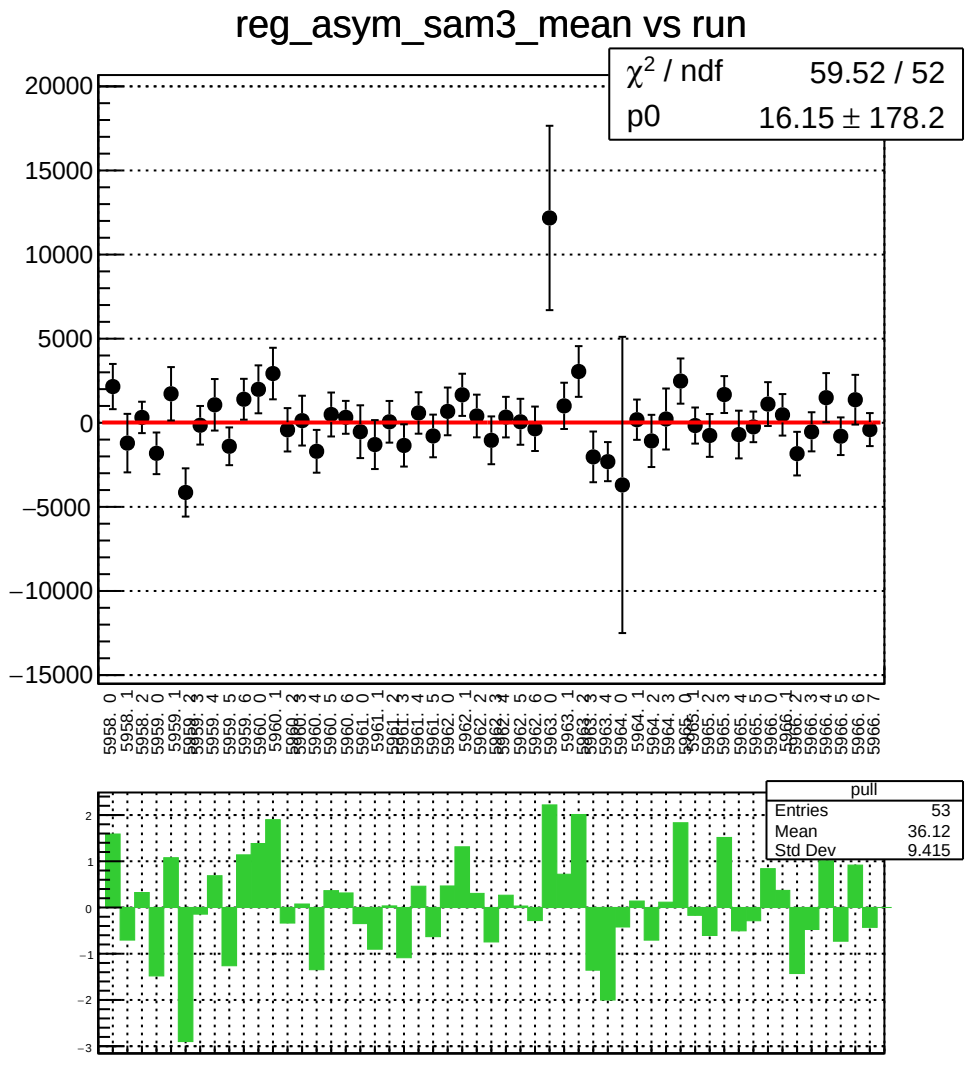

reg_asym_sam2_mean vs run
χ² / ndf 57.11 / 52
p0 −559.6 ± 416.6
pull
Entries 53
Mean 110.8
Std Dev 98.81

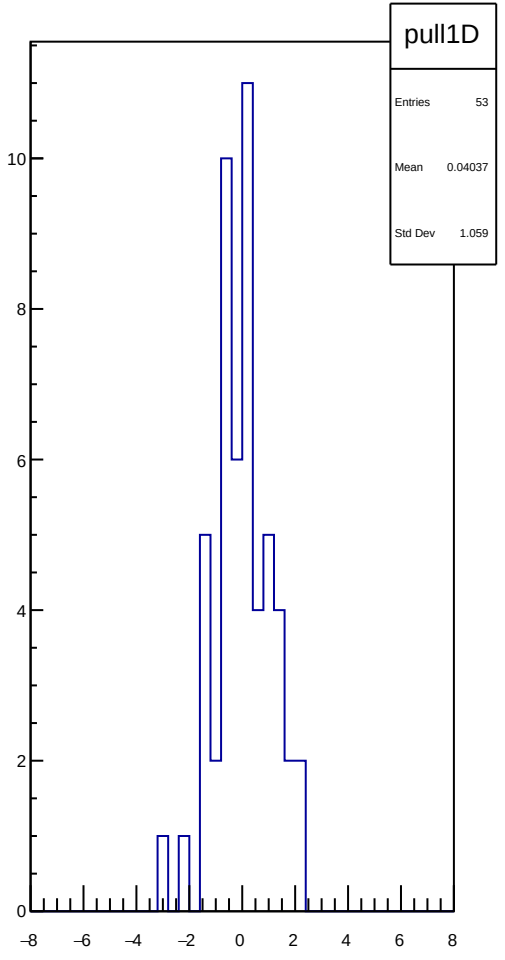

pull1D
Entries 53
Mean 0.0157
Std Dev 1.038

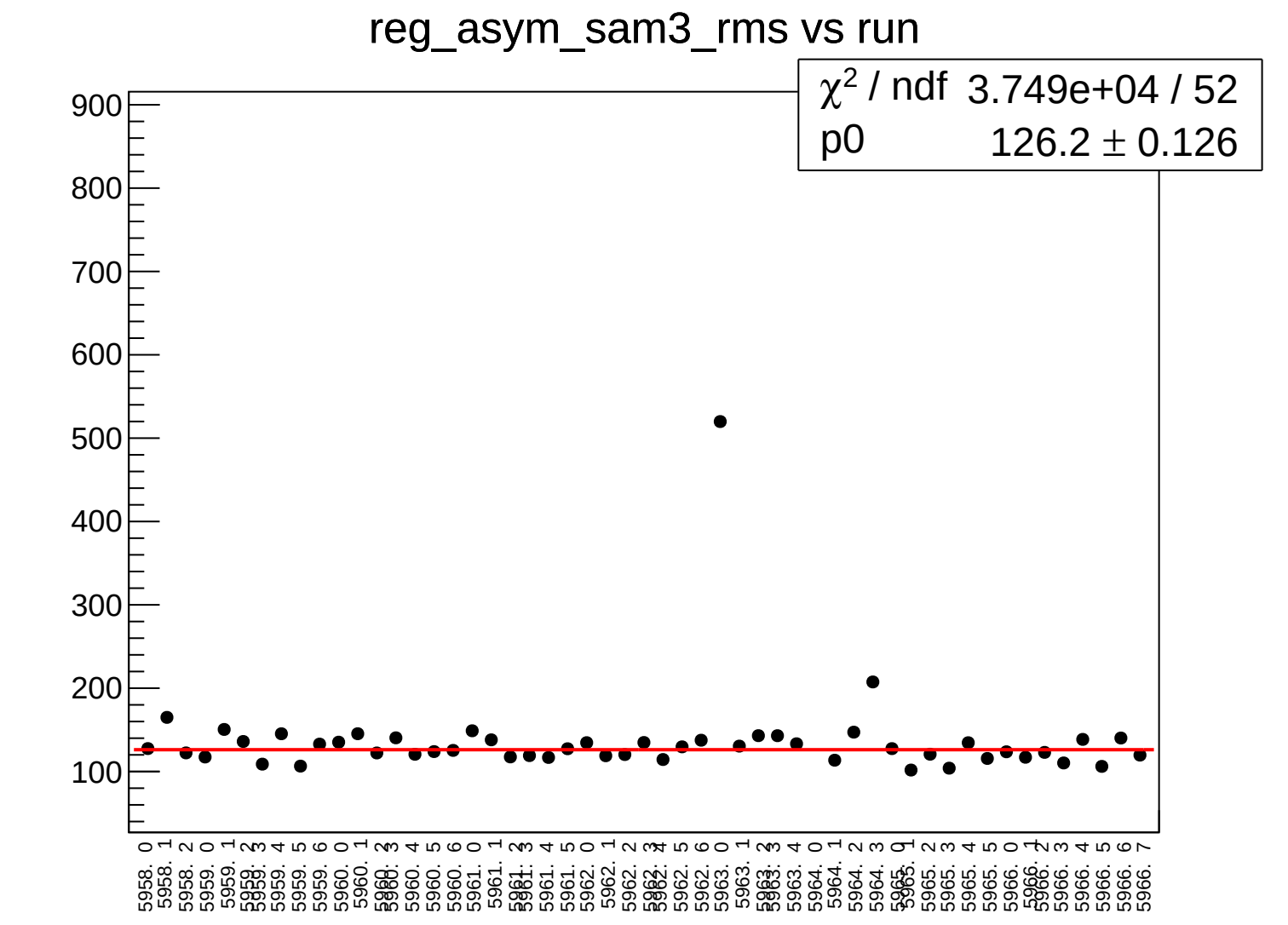

reg_asym_sam2_rms vs run
χ² / ndf 1.565e+04 / 52
p0 298.1 ± 0.2946
1100
1000
900
800
700
600
500
400
300
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7


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


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


reg_asym_sam3_mean vs run
χ² / ndf 59.52 / 52
p0 16.15 ± 178.2
pull
Entries 53
Mean 36.12
Std Dev 9.415


pull1D
Entries 53
Mean 0.04037
Std Dev 1.059


reg_asym_sam3_rms vs run
χ² / ndf 3.749e+04 / 52
p0 126.2 ± 0.126
900
800
700
600
500
400
300
200
100
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
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5963. 4
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5964. 1
5964. 2
5964. 3
5965. 1
5965. 2
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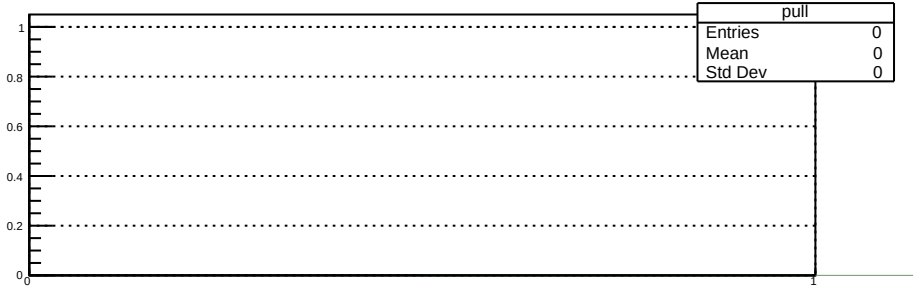
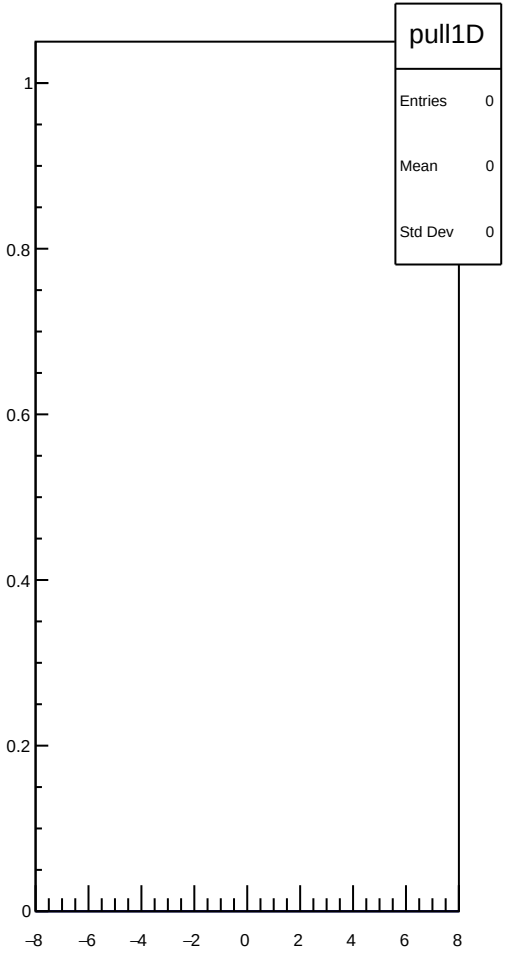
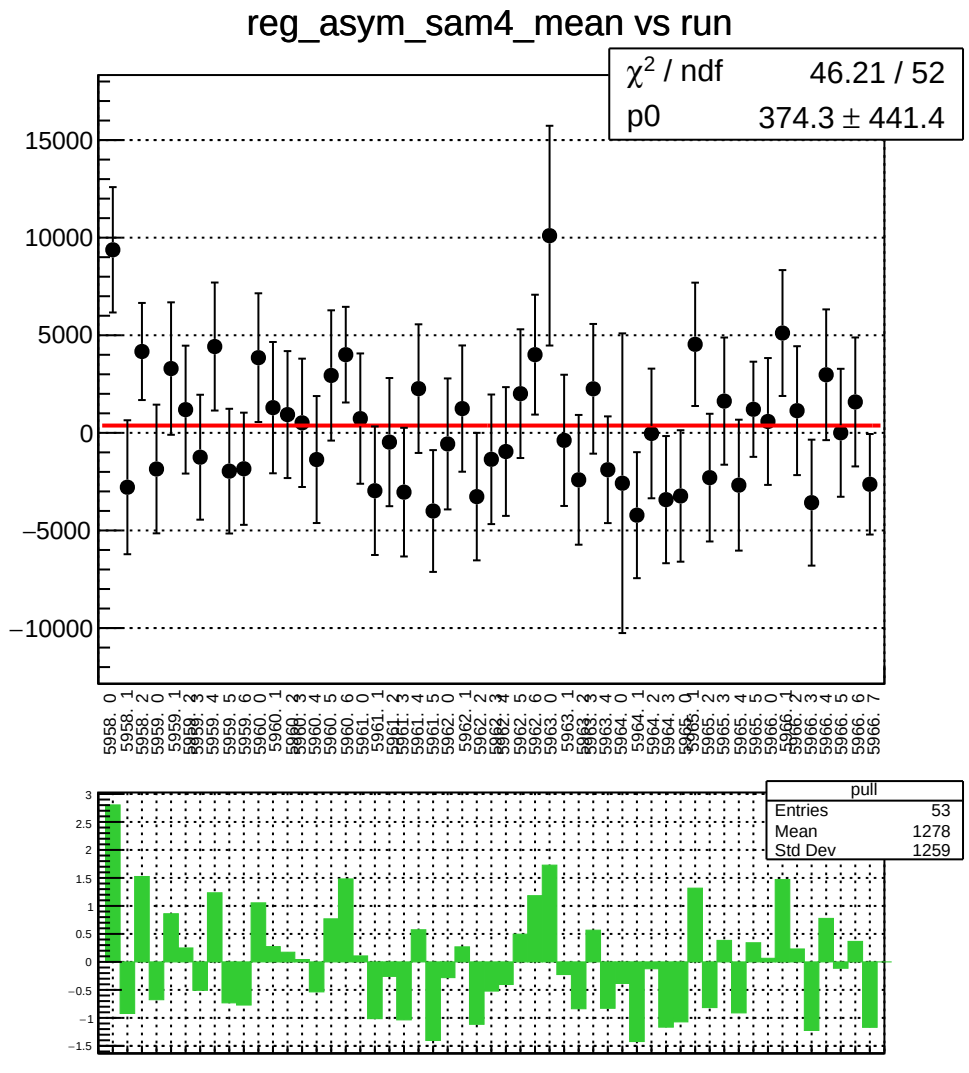
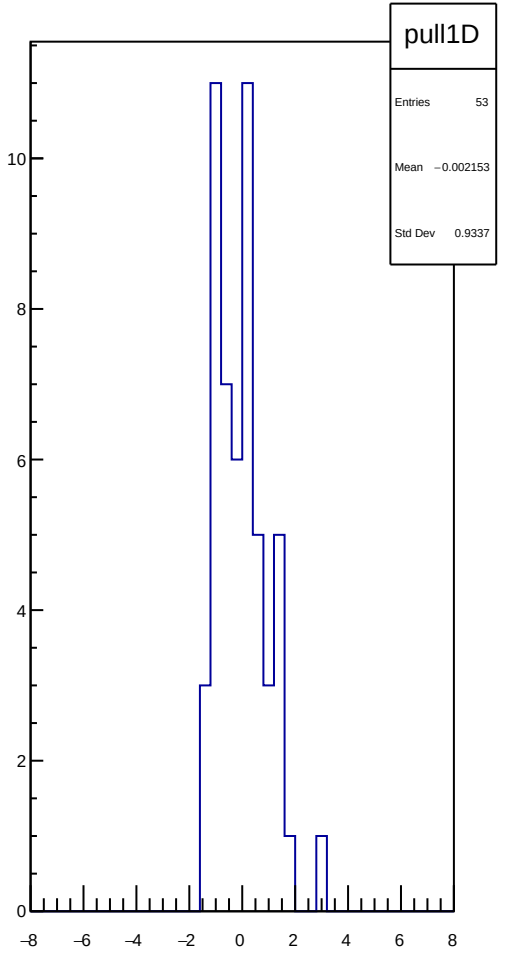
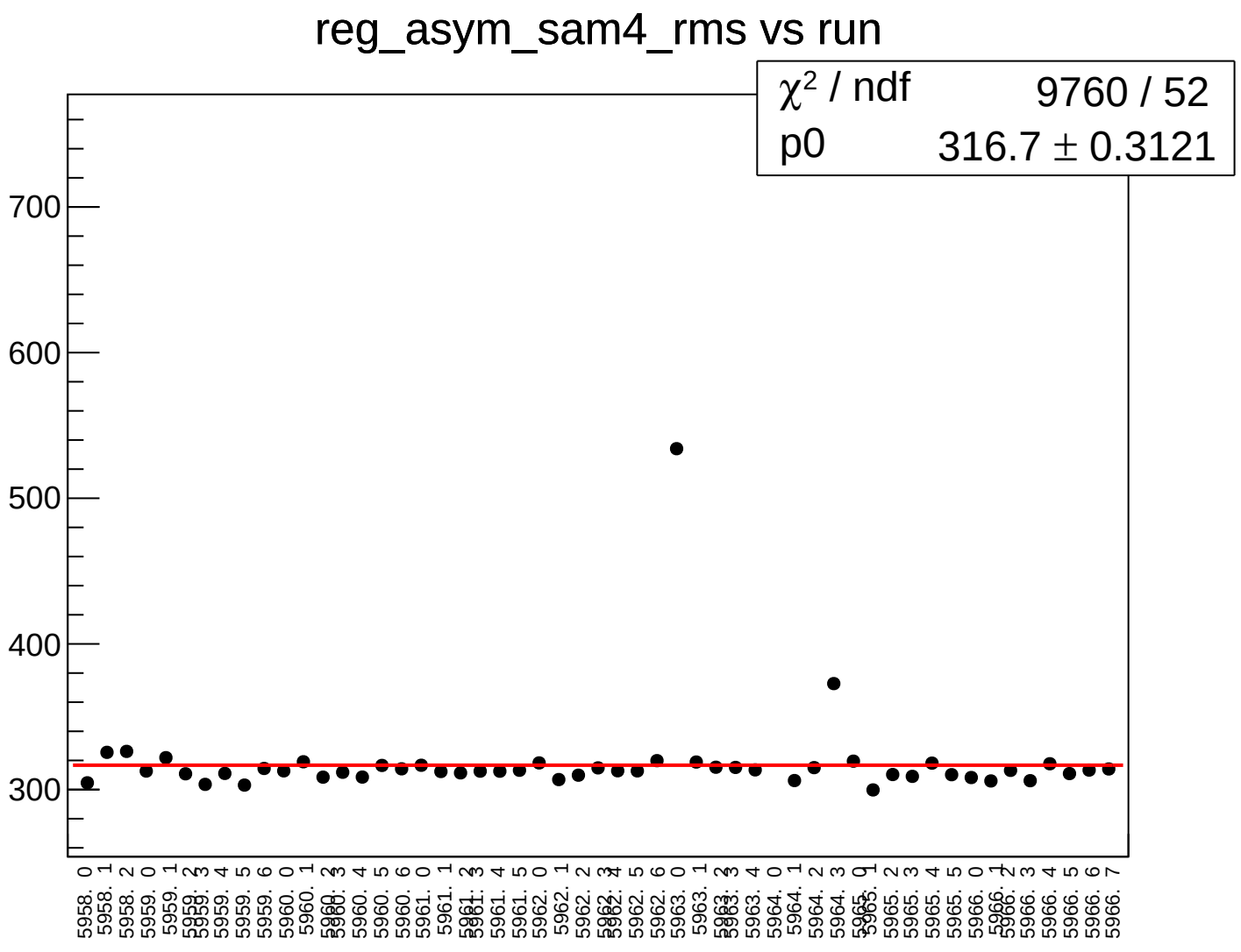
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

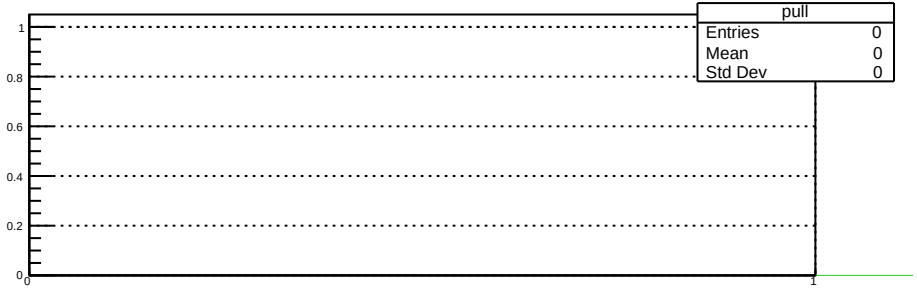

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

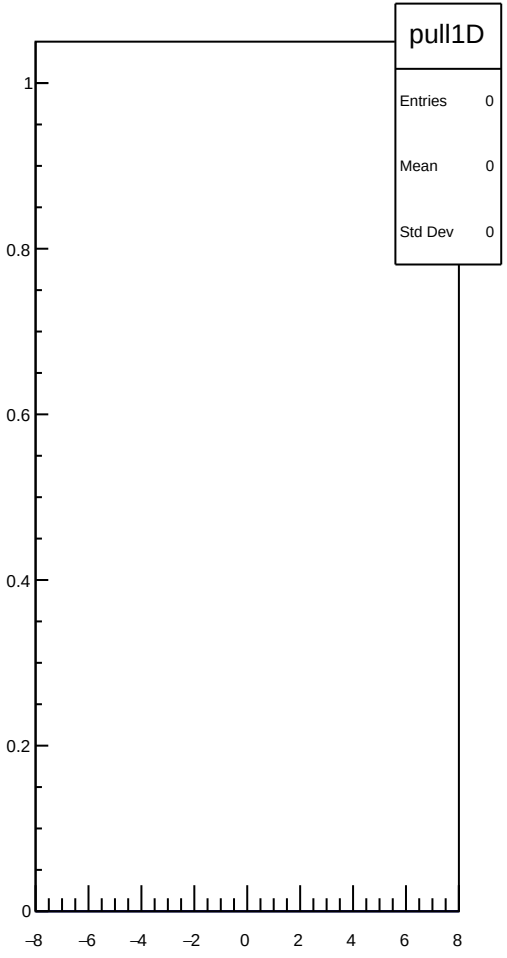

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

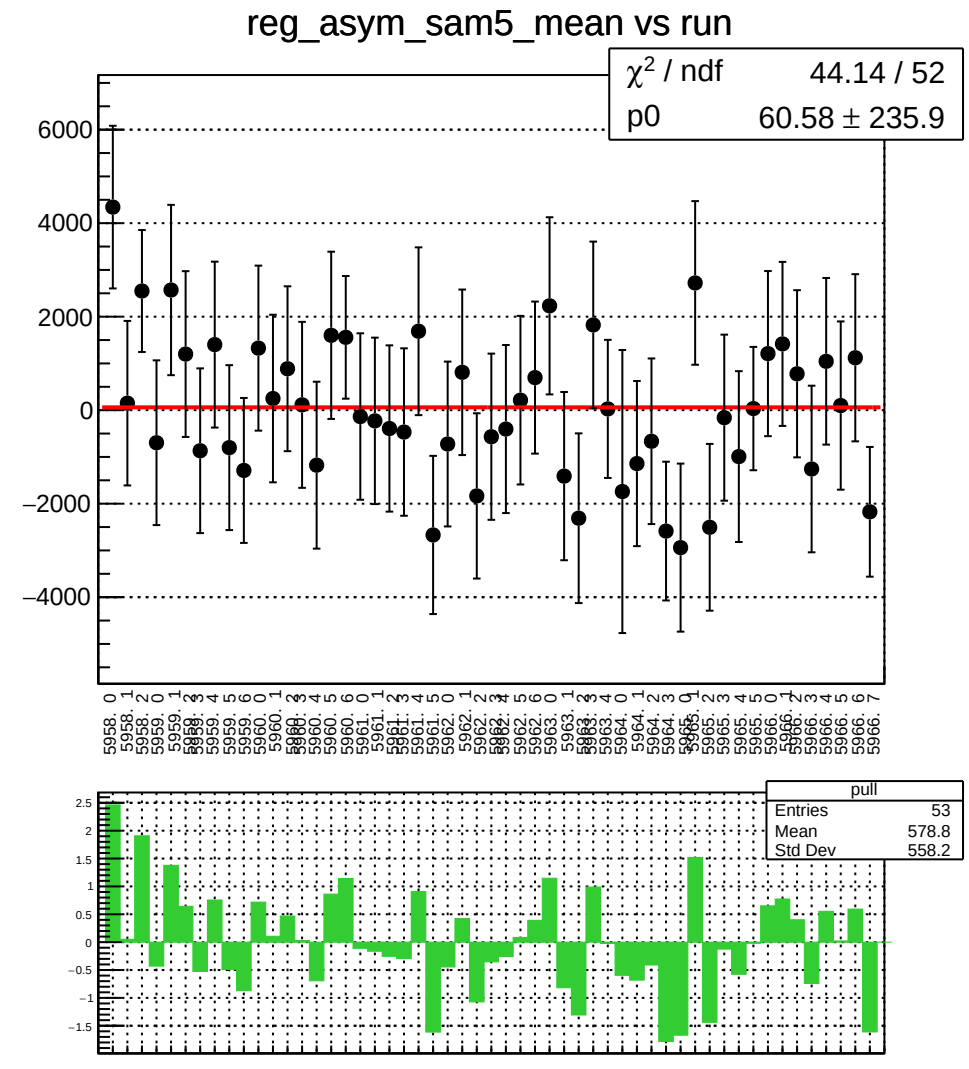

reg_asym_sam4_mean vs run
χ² / ndf 46.21 / 52
p0 374.3 ± 441.4
15000
10000
5000
0
−5000
−10000
pull
Entries 53
Mean 1278
Std Dev 1259
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

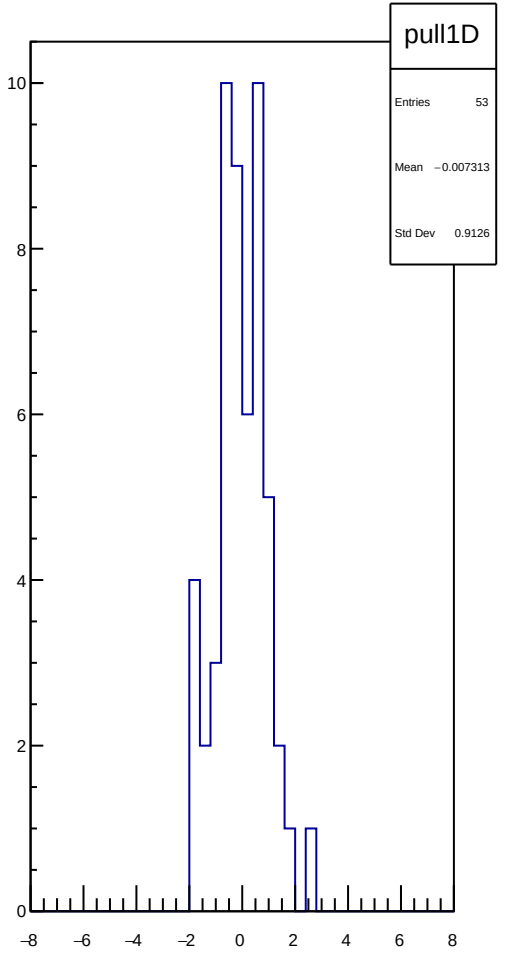

pull1D
Entries 53
Mean −0.002153
Std Dev 0.9337
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

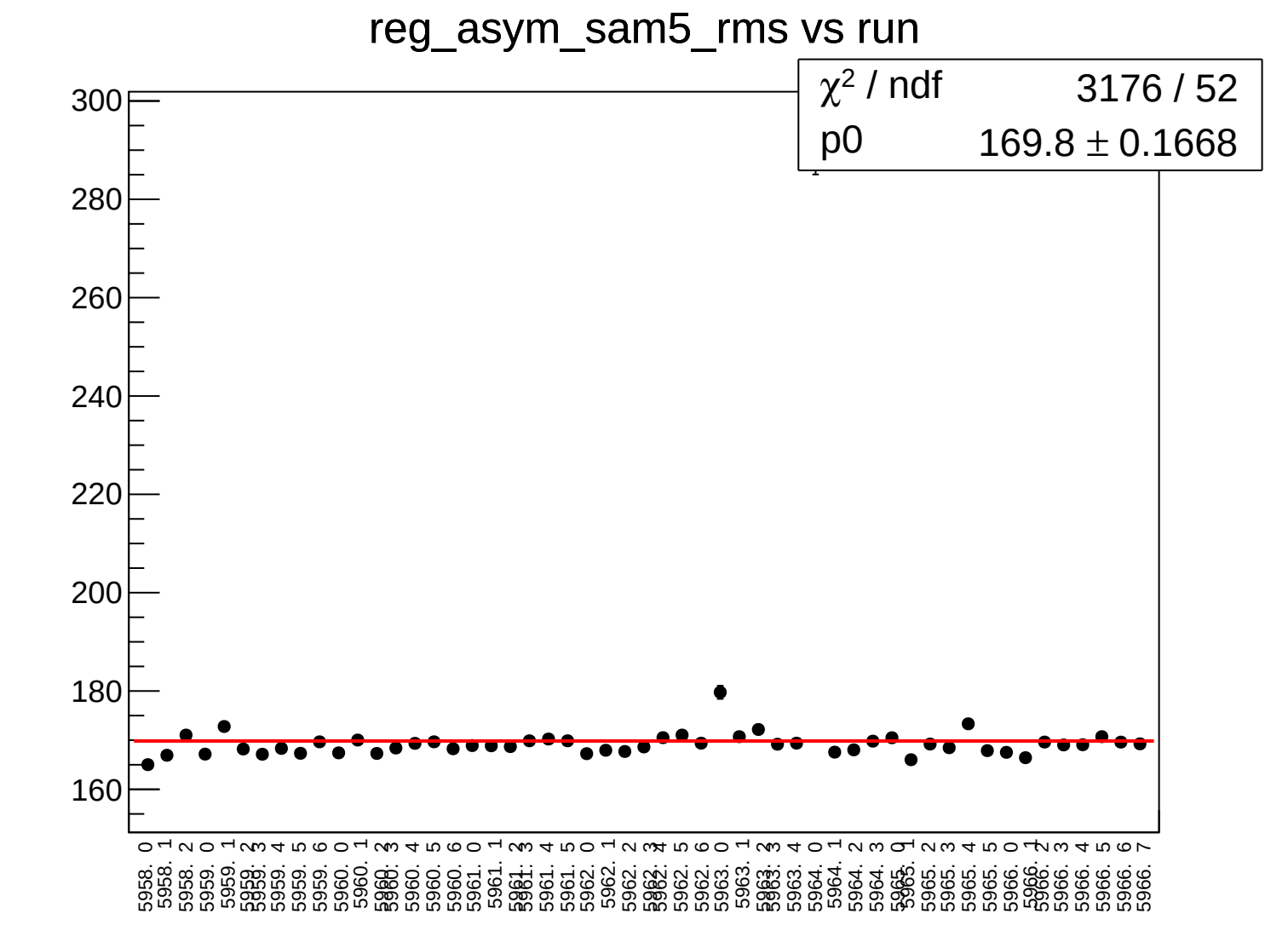

reg_asym_sam4_rms vs run
χ² / ndf 9760 / 52
p0 316.7 ± 0.3121
700
600
500
400
300

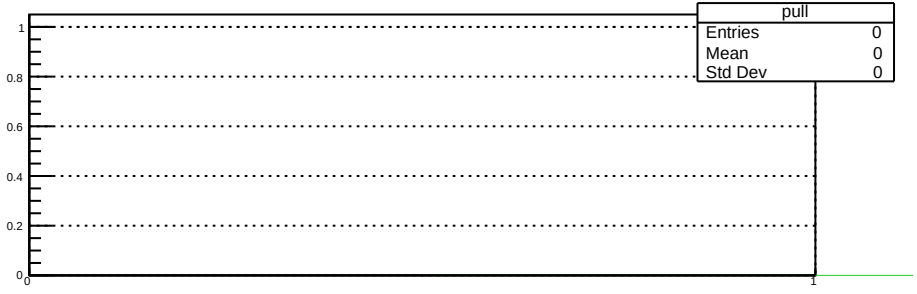

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

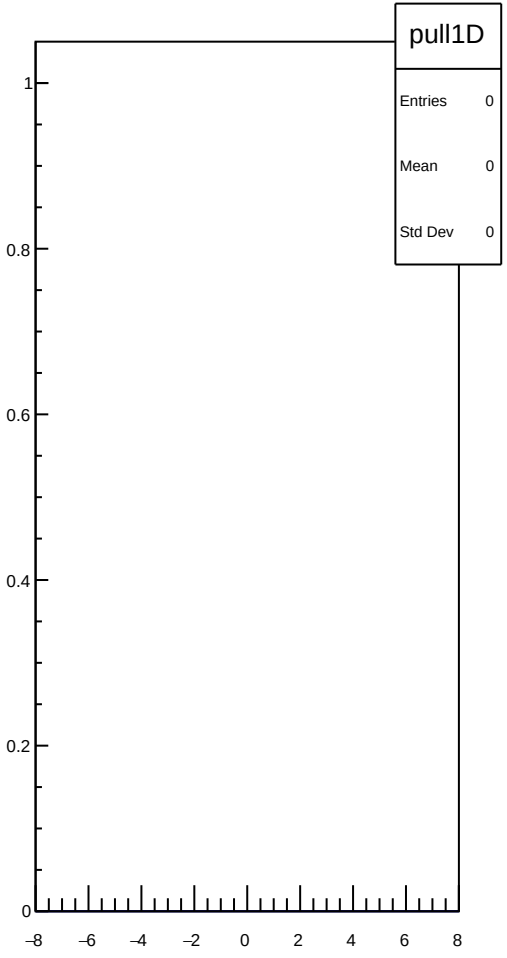

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

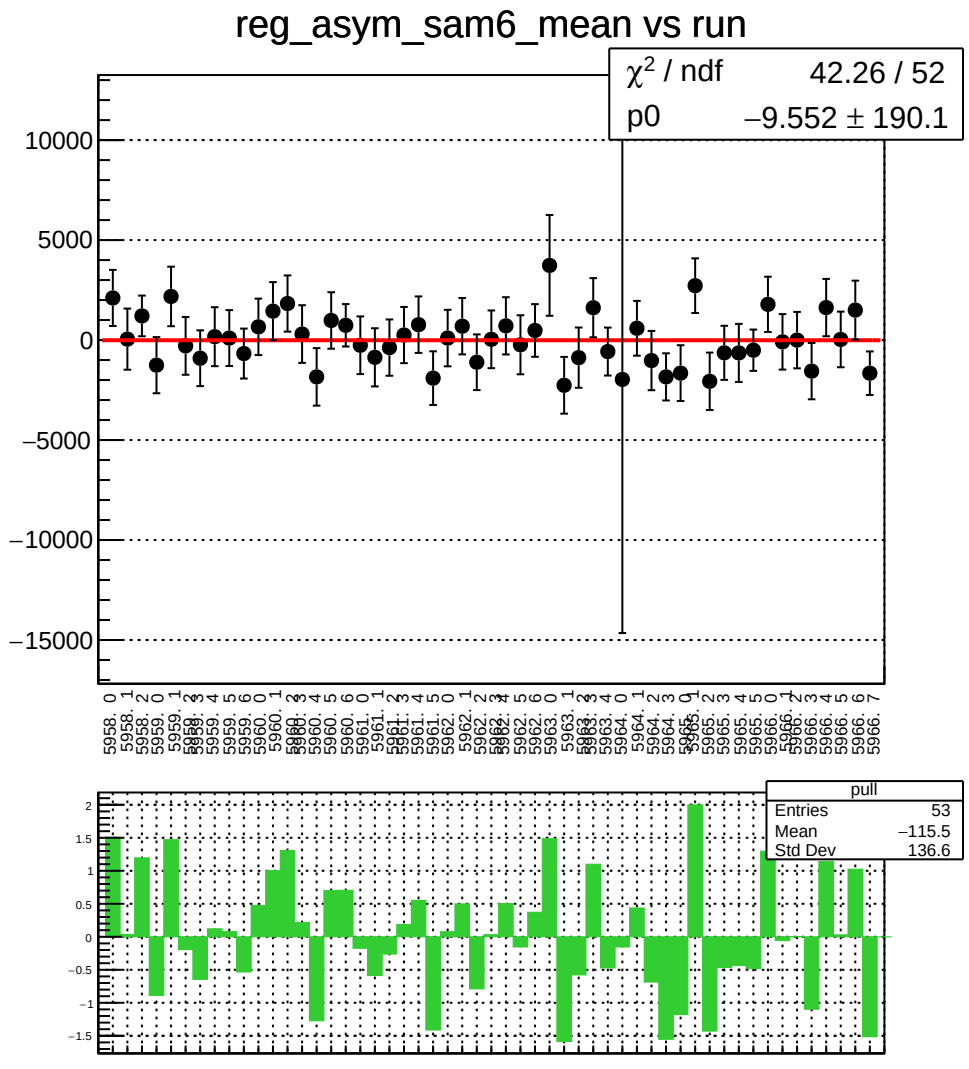

reg_asym_sam5_mean vs run
χ² / ndf 44.14 / 52
p0 60.58 ± 235.9
6000
4000
2000
0
−2000
−4000
pull
Entries 53
Mean 578.8
Std Dev 558.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

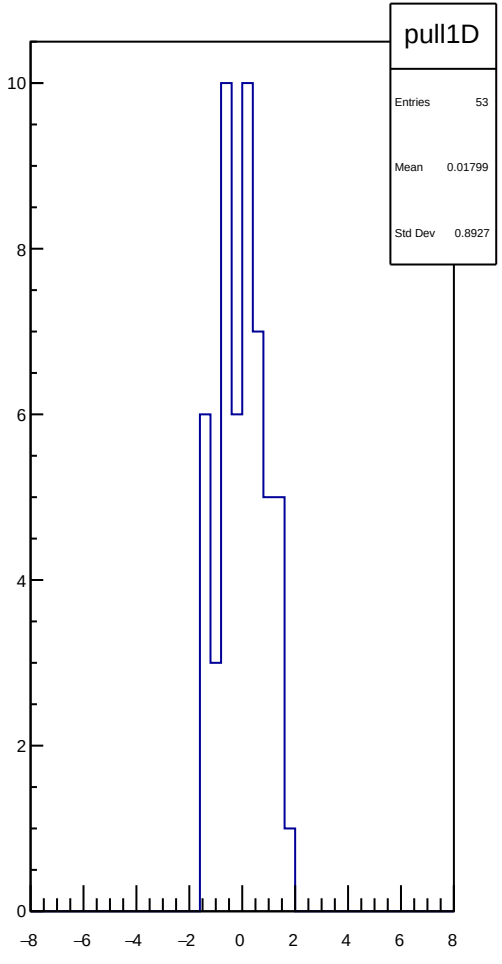

pull1D
Entries 53
Mean −0.007313
Std Dev 0.9126
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

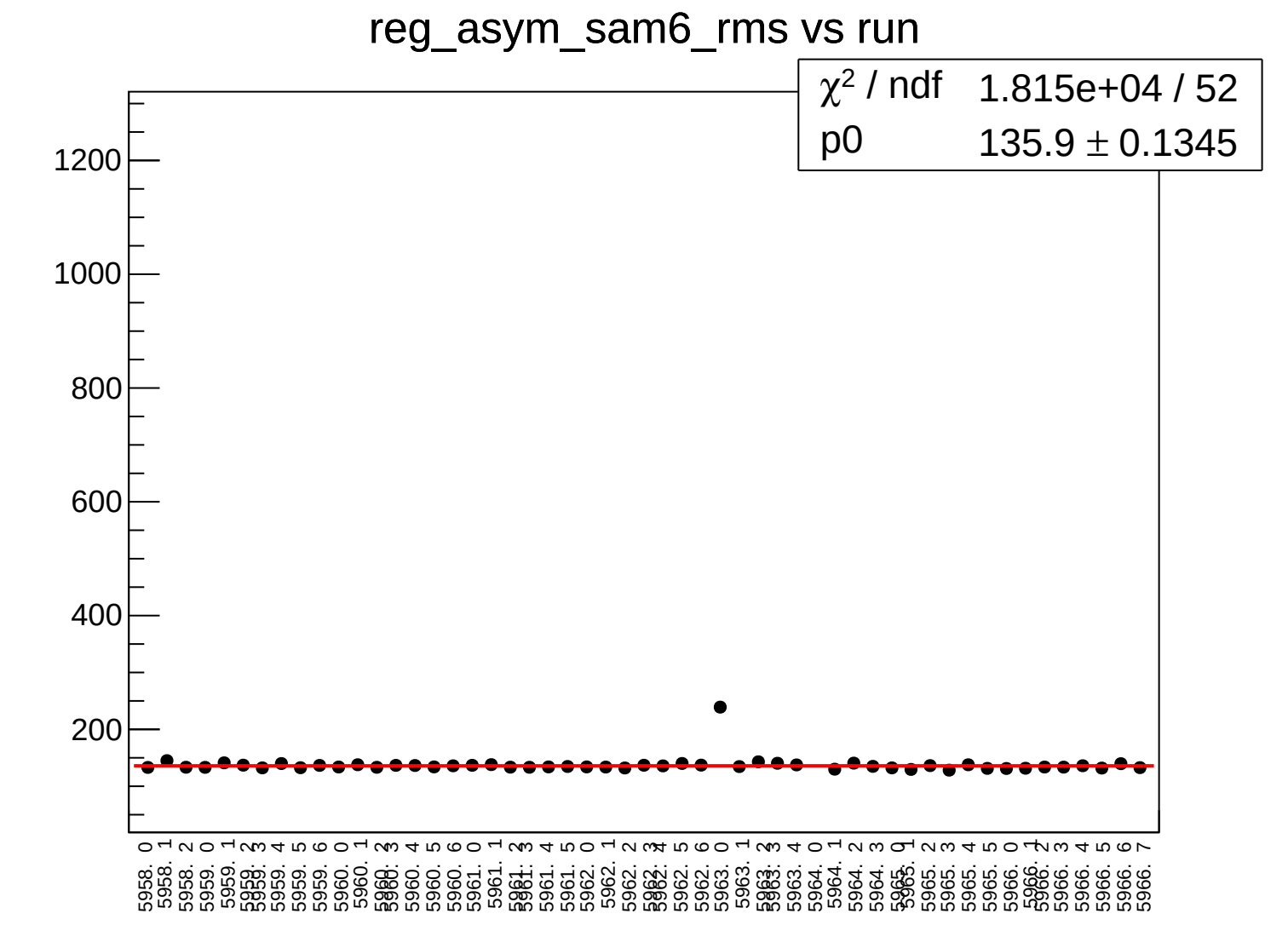

reg_asym_sam5_rms vs run
χ² / ndf 3176 / 52
p0 169.8 ± 0.1668
300
280
260
240
220
200
180
160


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


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


reg_asym_sam6_mean vs run
χ² / ndf 42.26 / 52
p0 −9.552 ± 190.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 53
Mean −115.5
Std Dev 136.6
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 53
Mean 0.01799
Std Dev 0.8927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_rms vs run
χ² / ndf 1.815e+04 / 52
p0 135.9 ± 0.1345
1200
1000
800
600
400
200
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
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5962. 6
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5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
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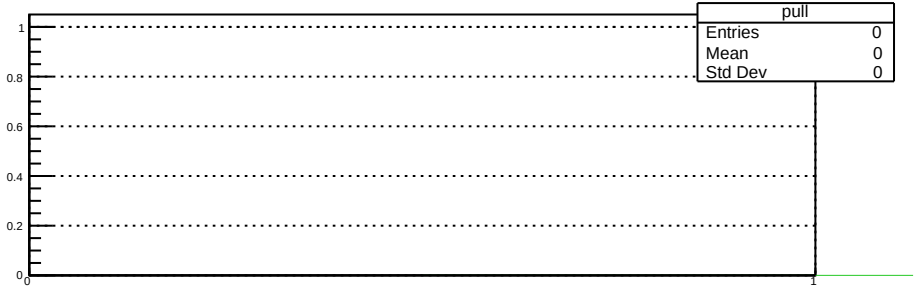
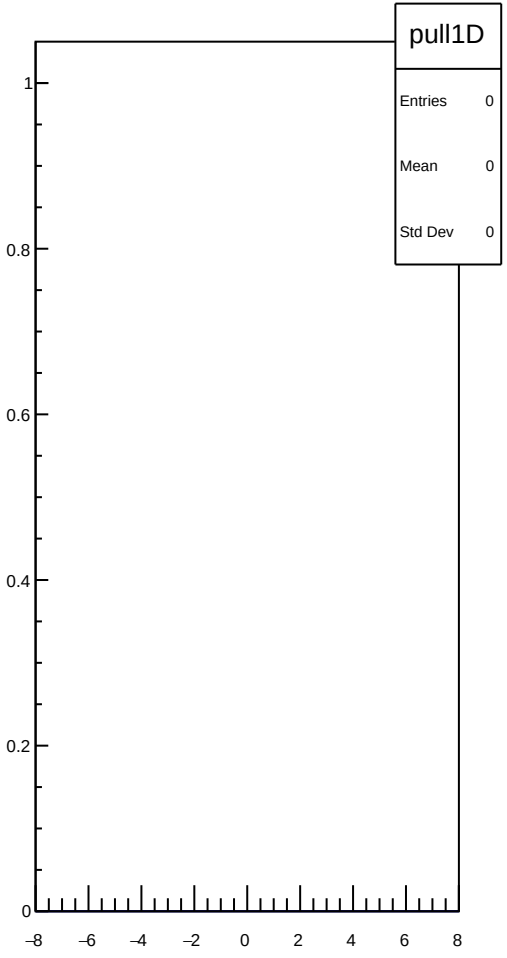
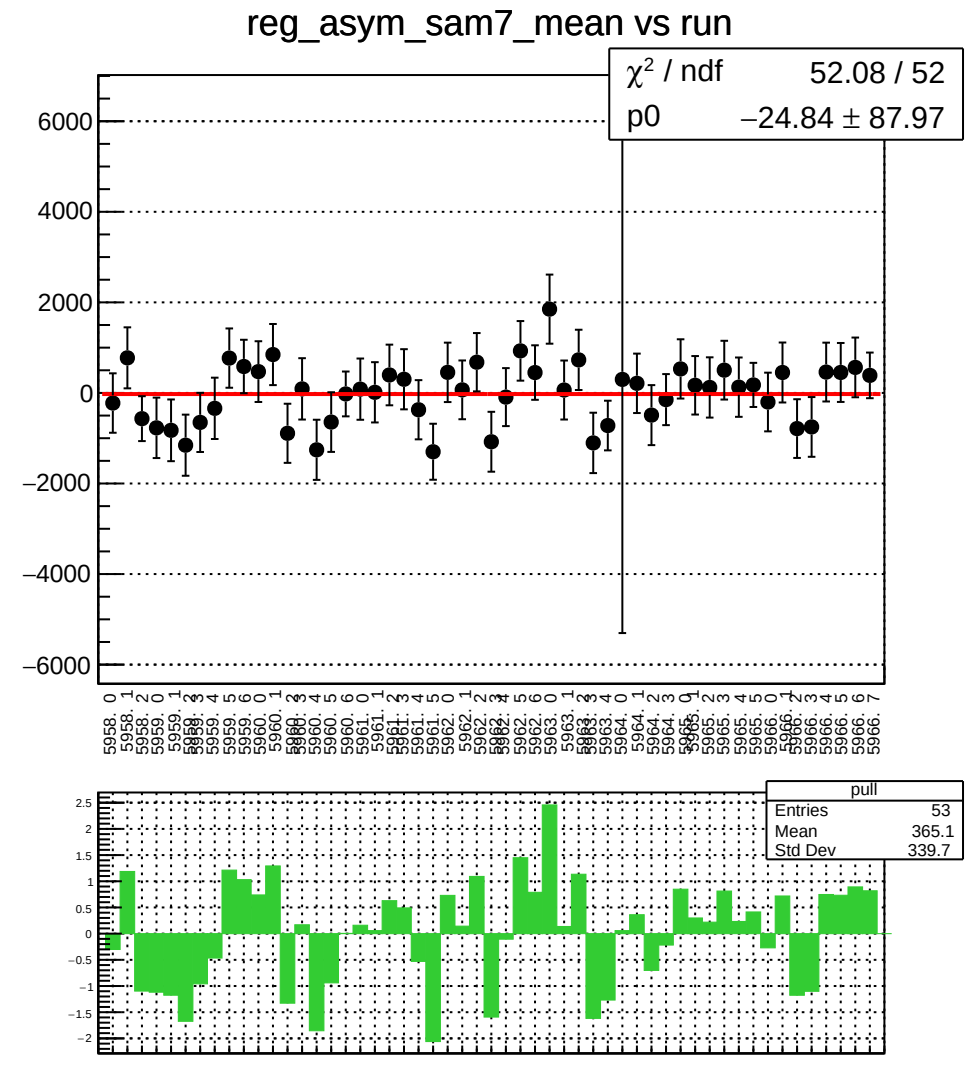
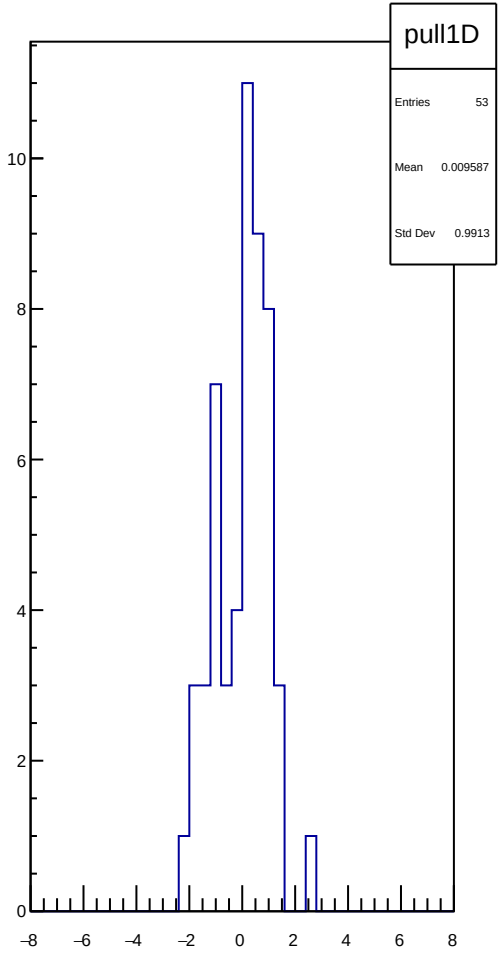
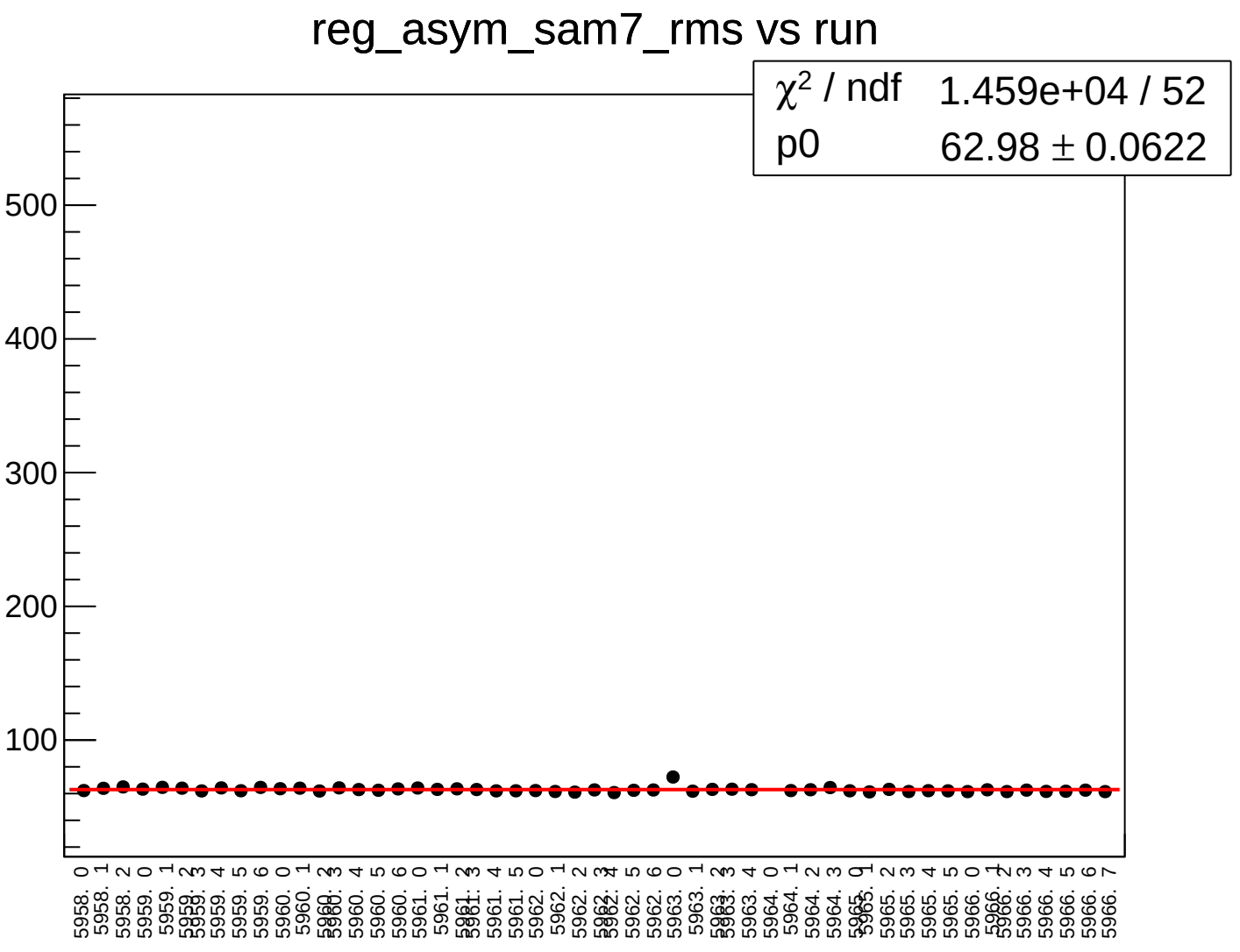
5966. 5
5966. 6
5966. 7

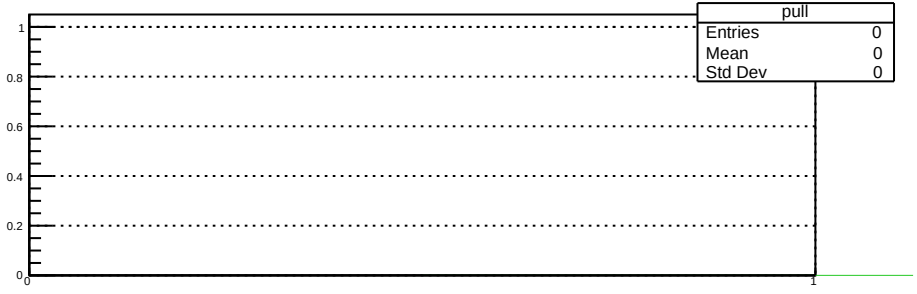

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

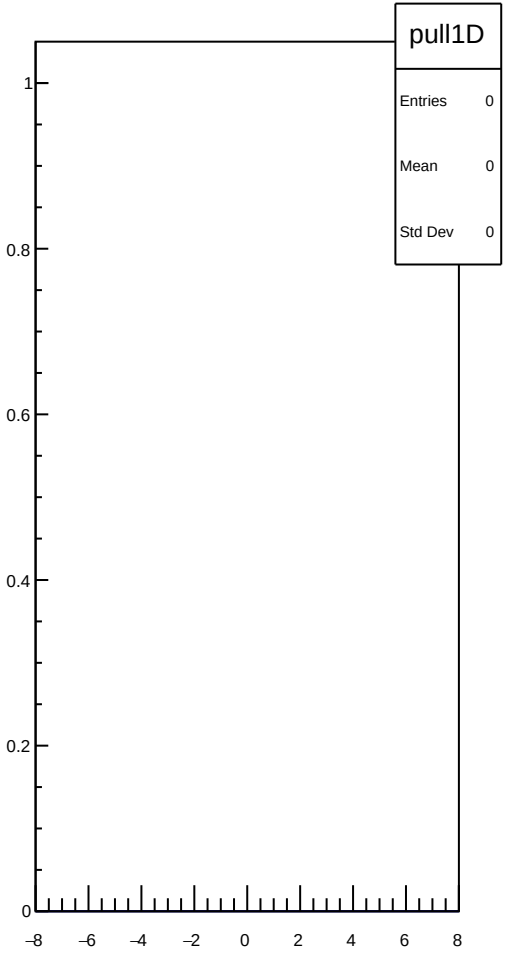

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

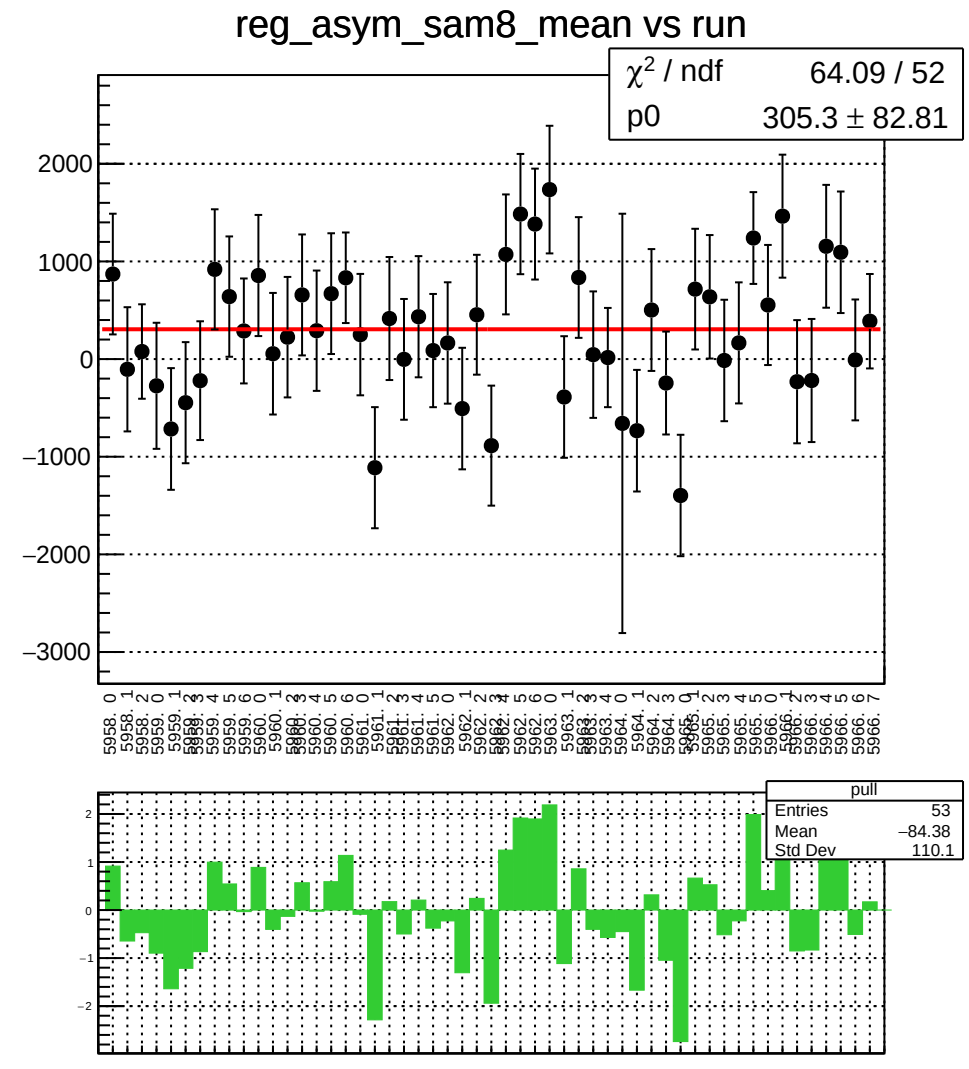

reg_asym_sam7_mean vs run
χ² / ndf 52.08 / 52
p0 −24.84 ± 87.97
pull
Entries 53
Mean 365.1
Std Dev 339.7

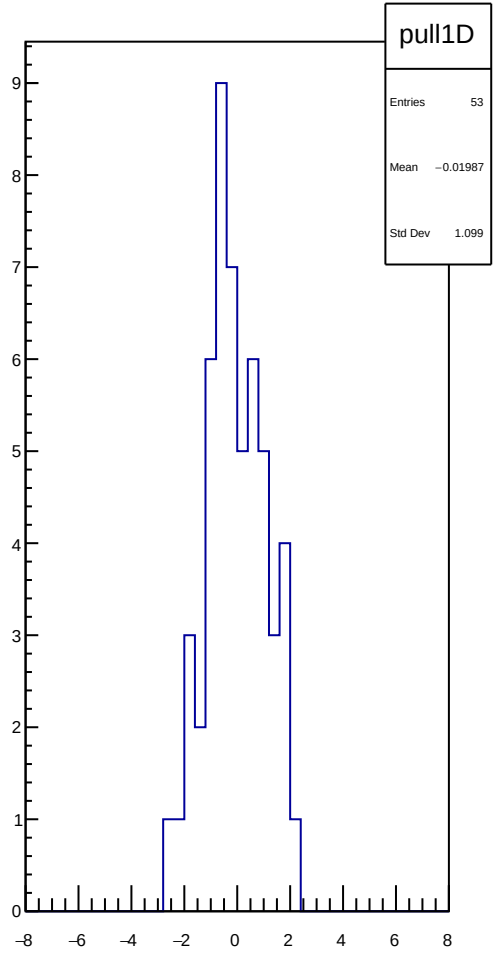

pull1D
Entries 53
Mean 0.009587
Std Dev 0.9913

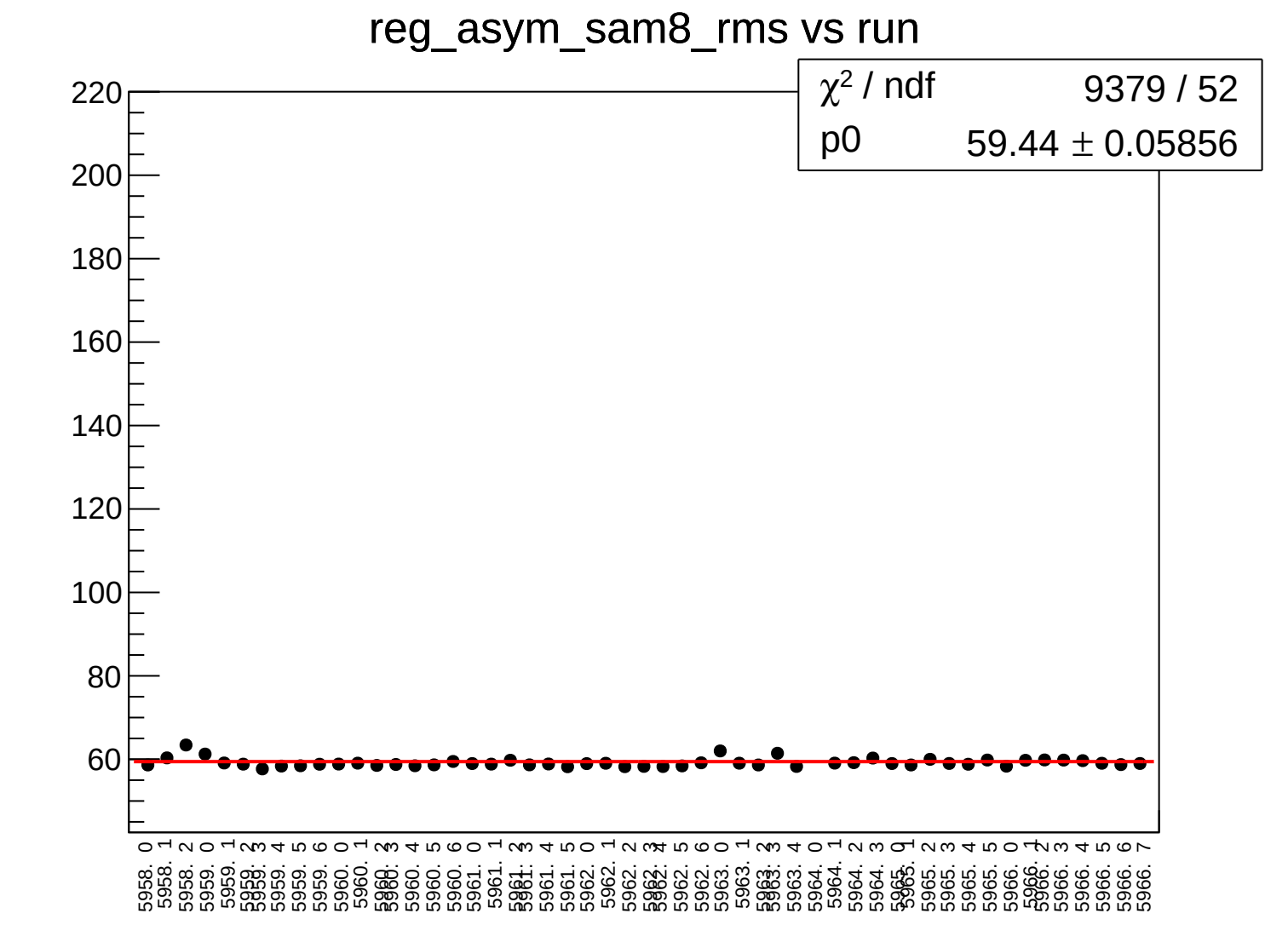

reg_asym_sam7_rms vs run
χ² / ndf 1.459e+04 / 52
p0 62.98 ± 0.0622
500
400
300
200
100

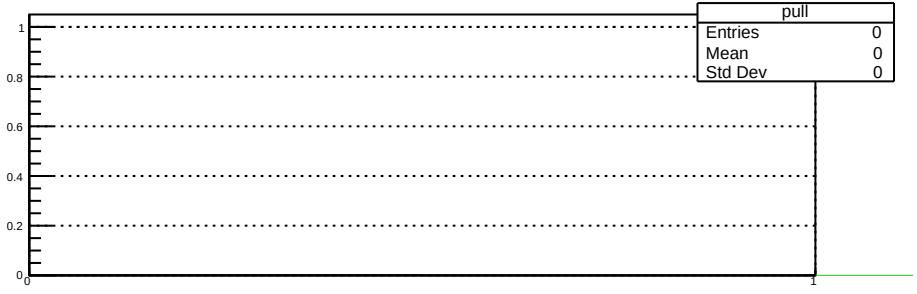

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

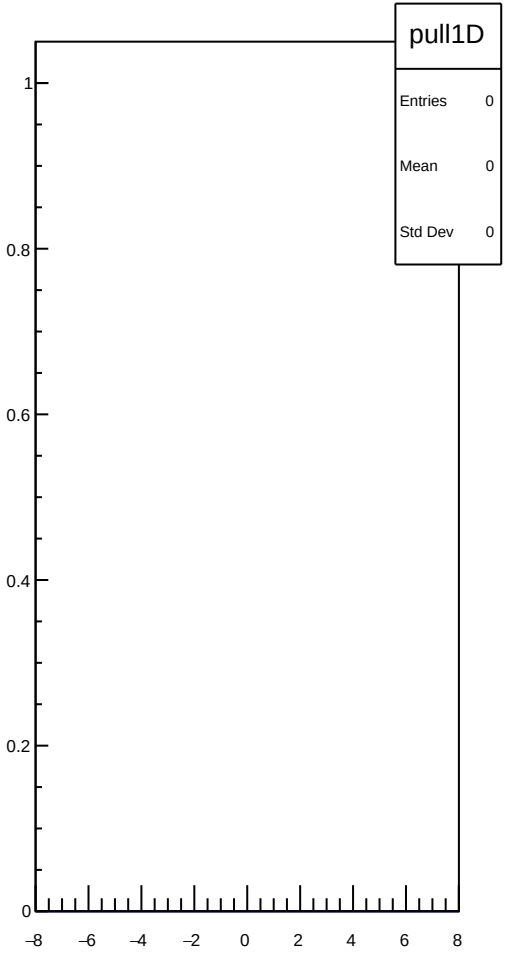

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

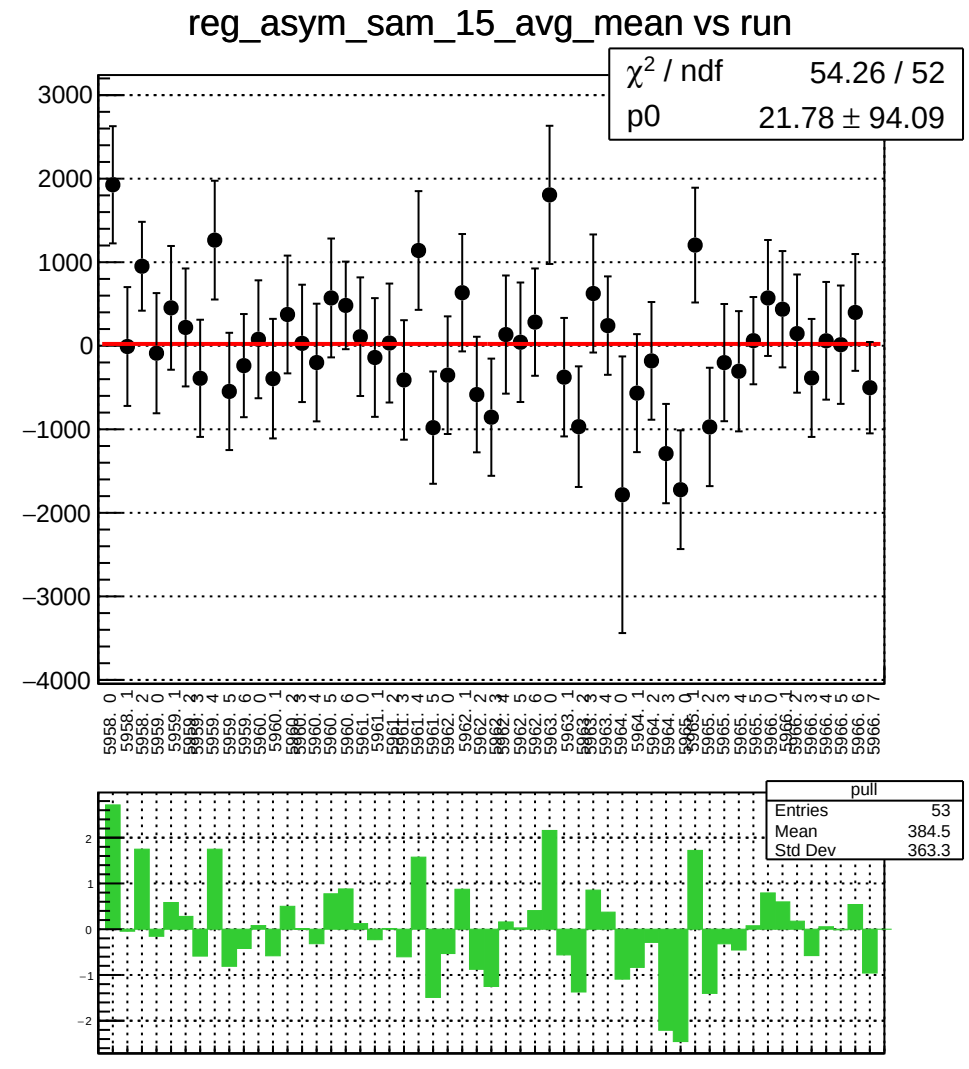

reg_asym_sam8_mean vs run
χ² / ndf 64.09 / 52
p0 305.3 ± 82.81
2000
1000
0
−1000
−2000
−3000
pull
Entries 53
Mean −84.38
Std Dev 110.1
2
1
0
−1
−2

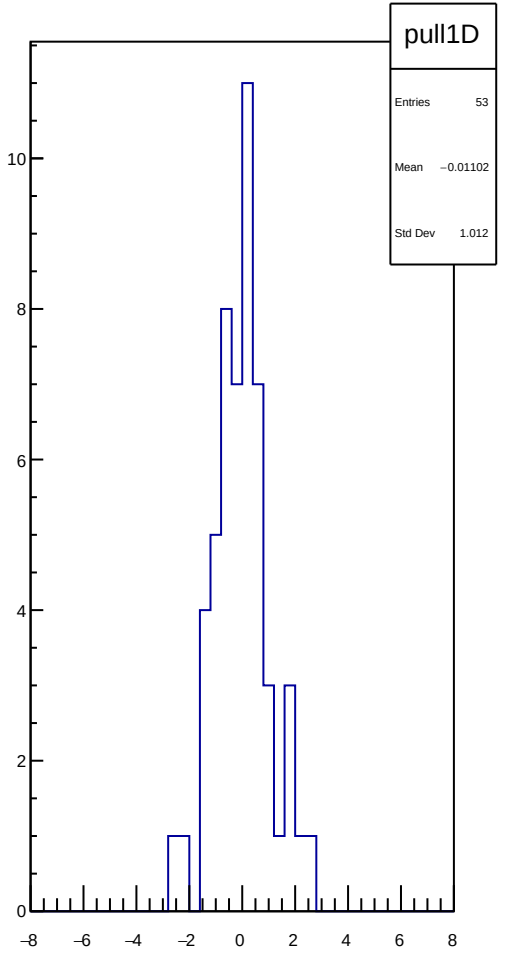

pull1D
Entries 53
Mean −0.01987
Std Dev 1.099
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

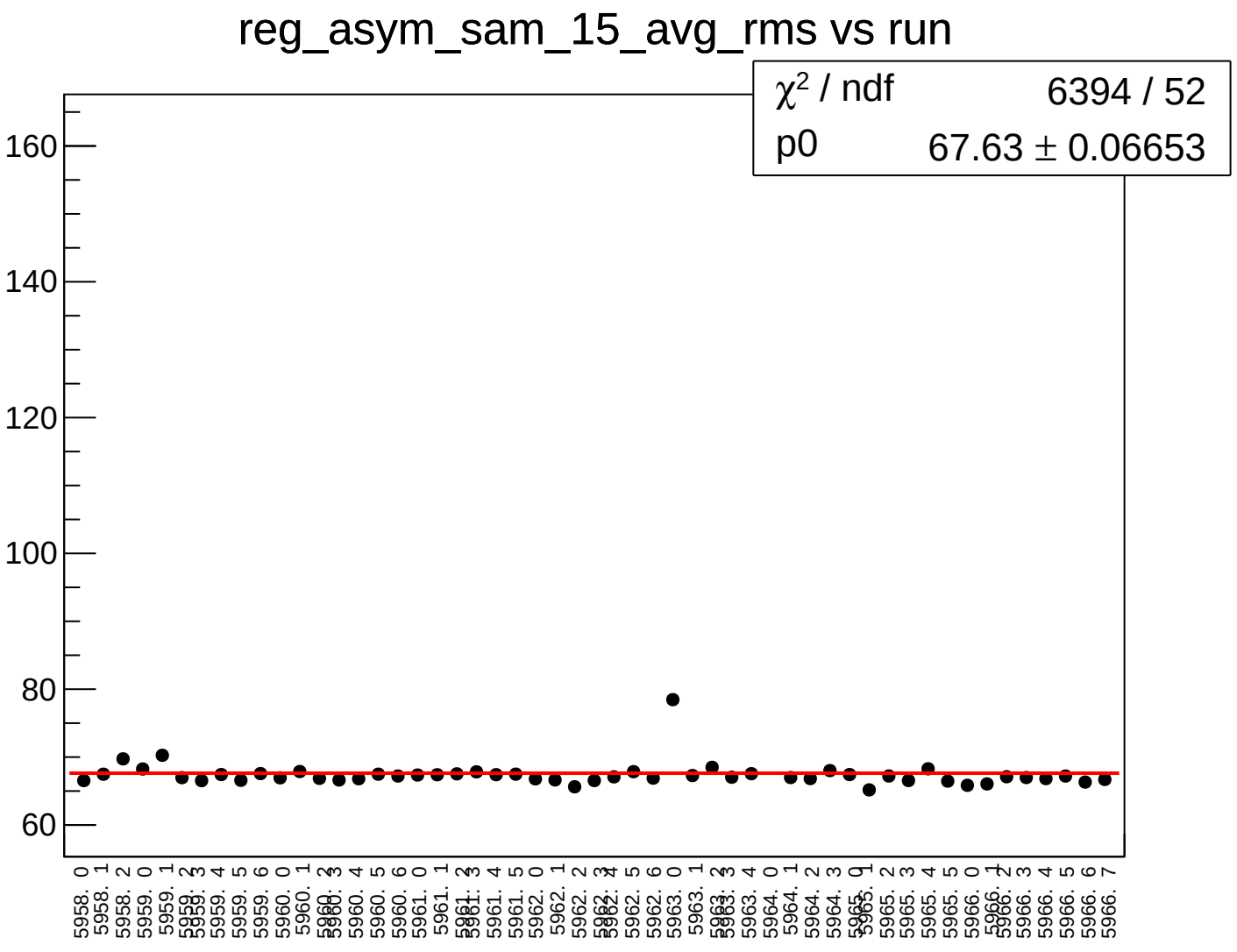

reg_asym_sam8_rms vs run
χ^2 / ndf 9379 / 52
p0 59.44 ± 0.05856
220
200
180
160
140
120
100
80
60

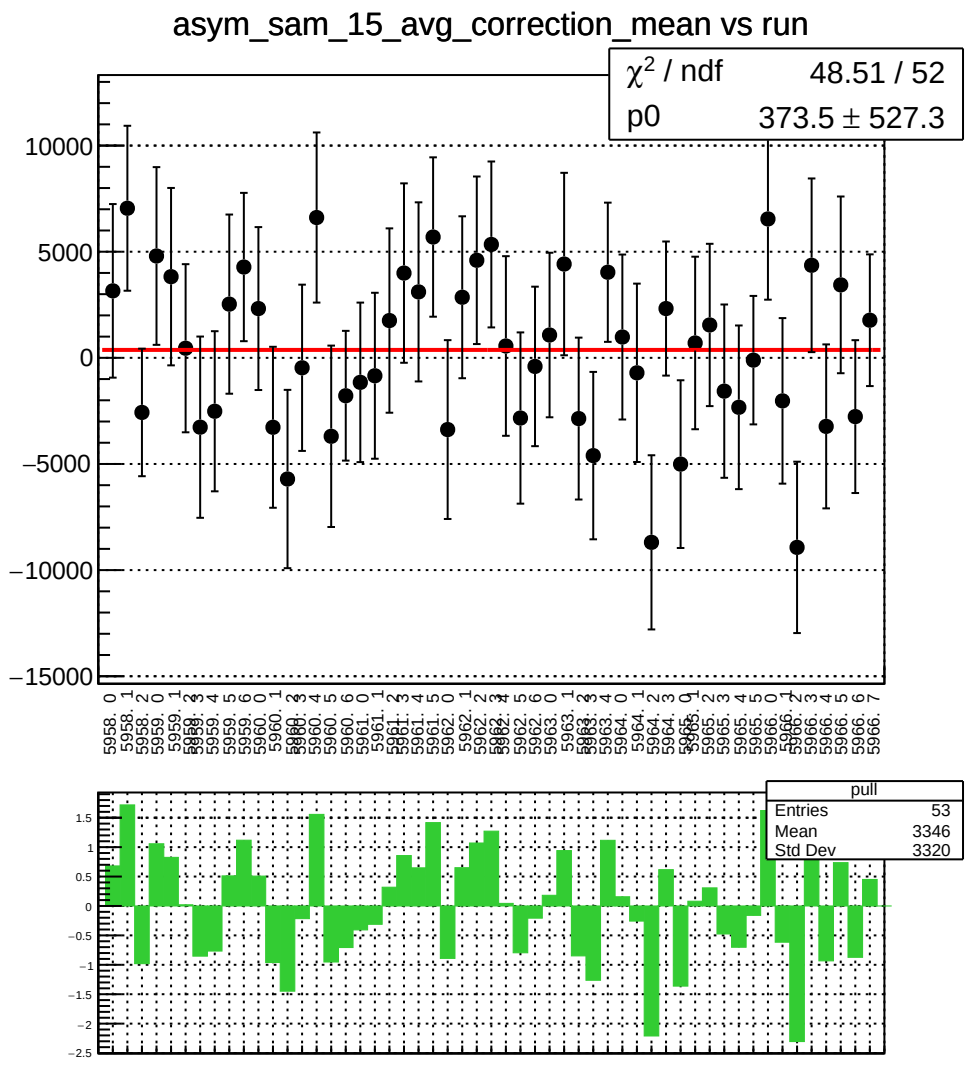

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

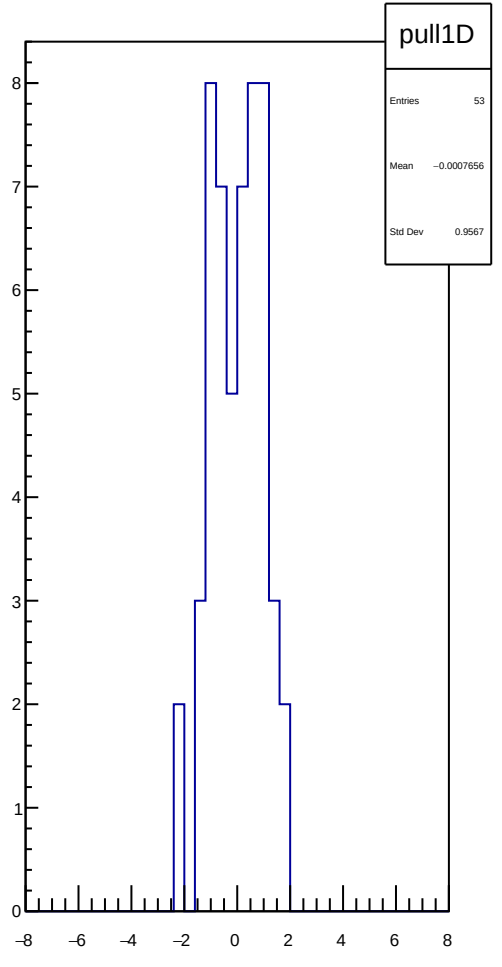

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

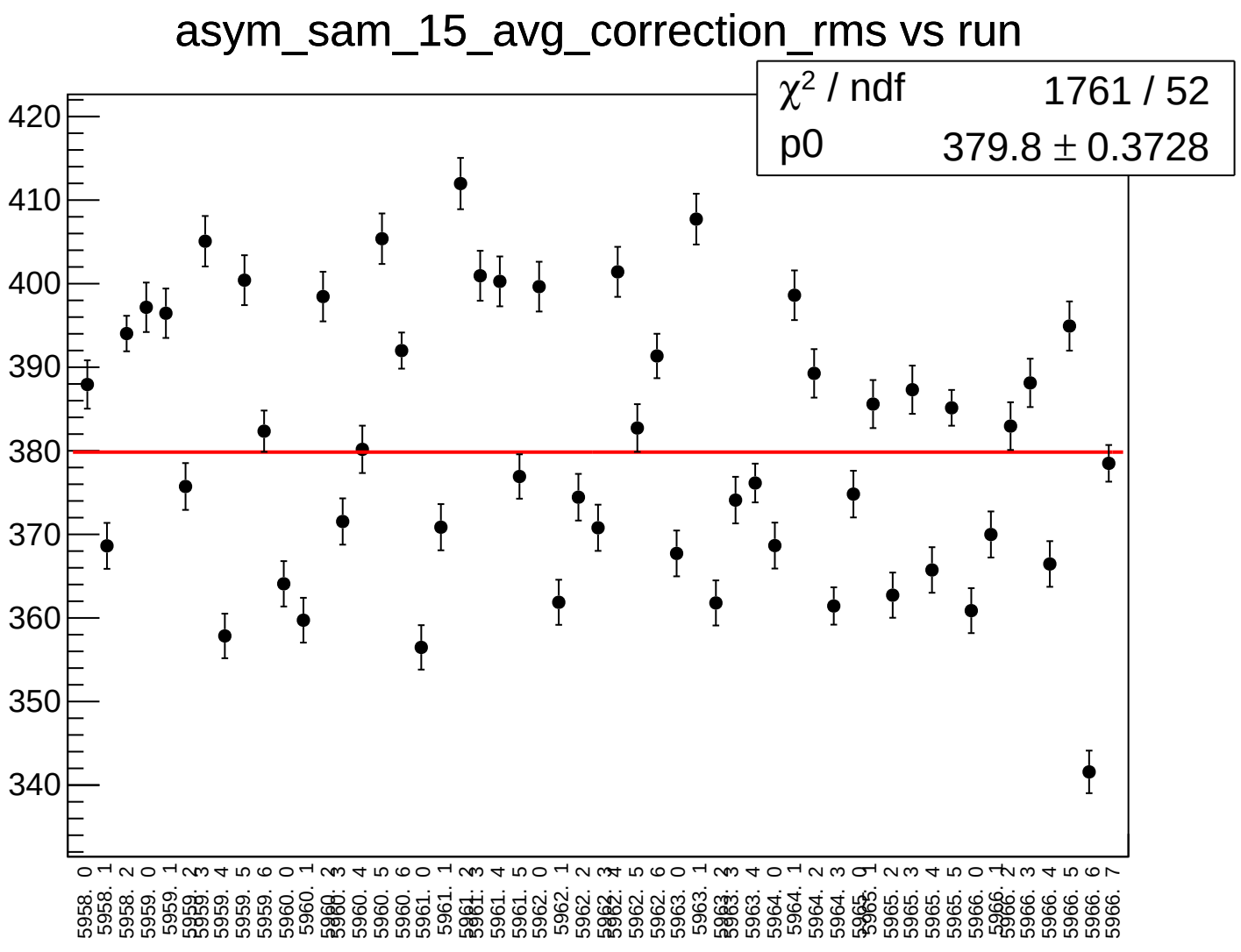

reg_asym_sam_15_avg_mean vs run
χ² / ndf 54.26 / 52
p0 21.78 ± 94.09
pull
Entries 53
Mean 384.5
Std Dev 363.3

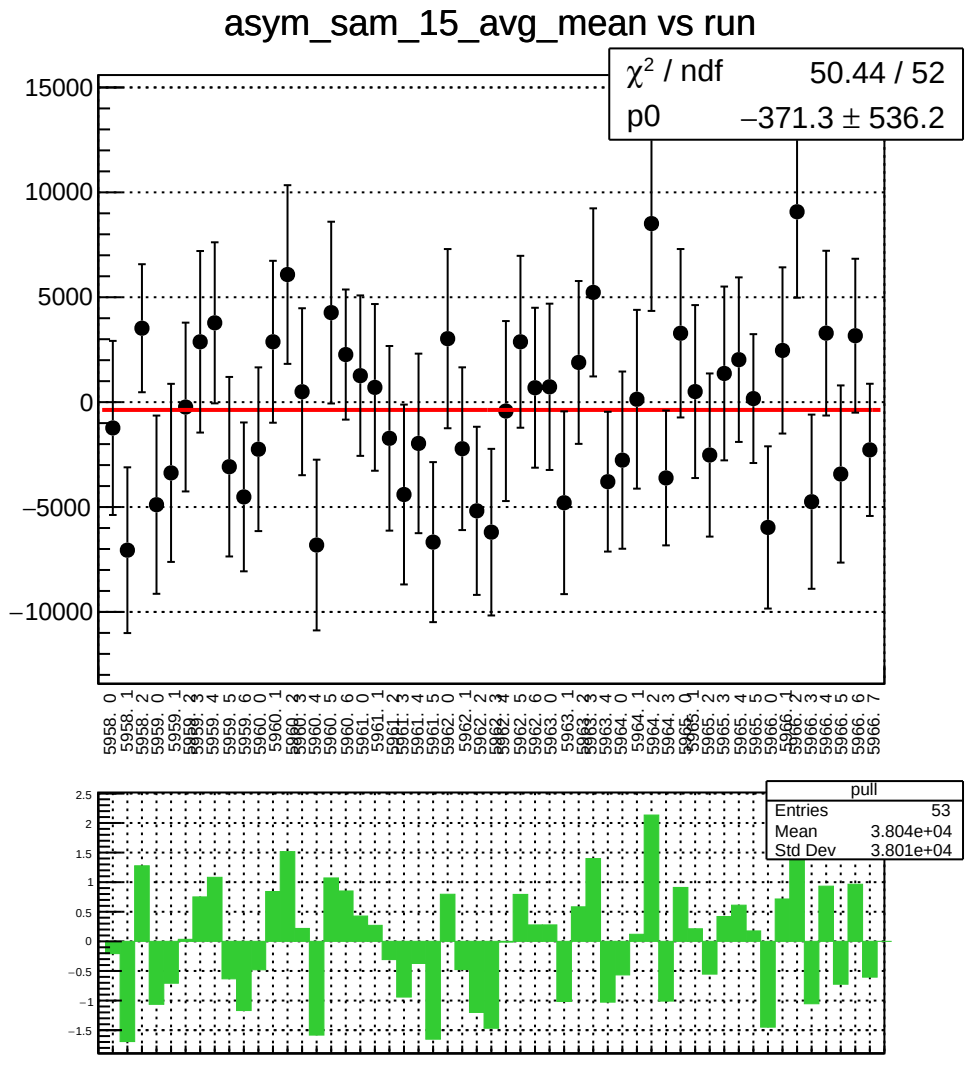

pull1D
Entries 53
Mean −0.01102
Std Dev 1.012

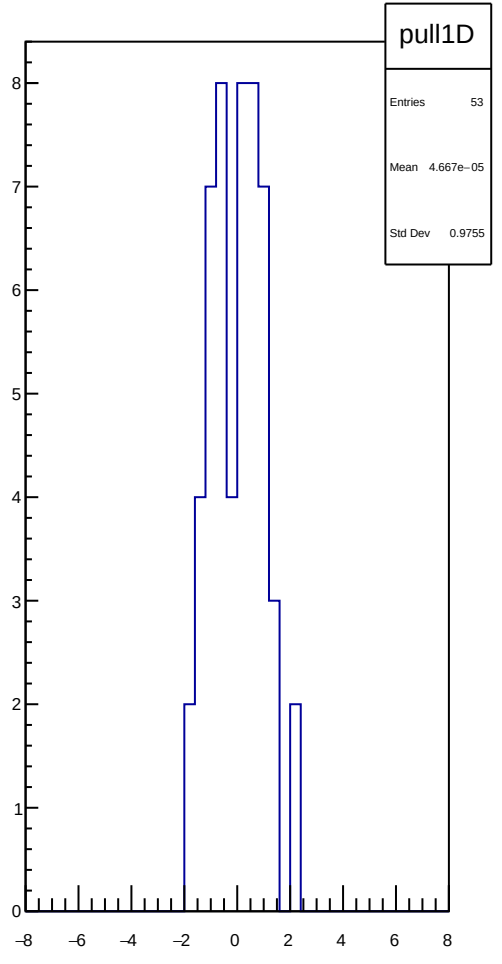

reg_asym_sam_15_avg_rms vs run
χ² / ndf 6394 / 52
p0 67.63 ± 0.06653
160
140
120
100
80
60

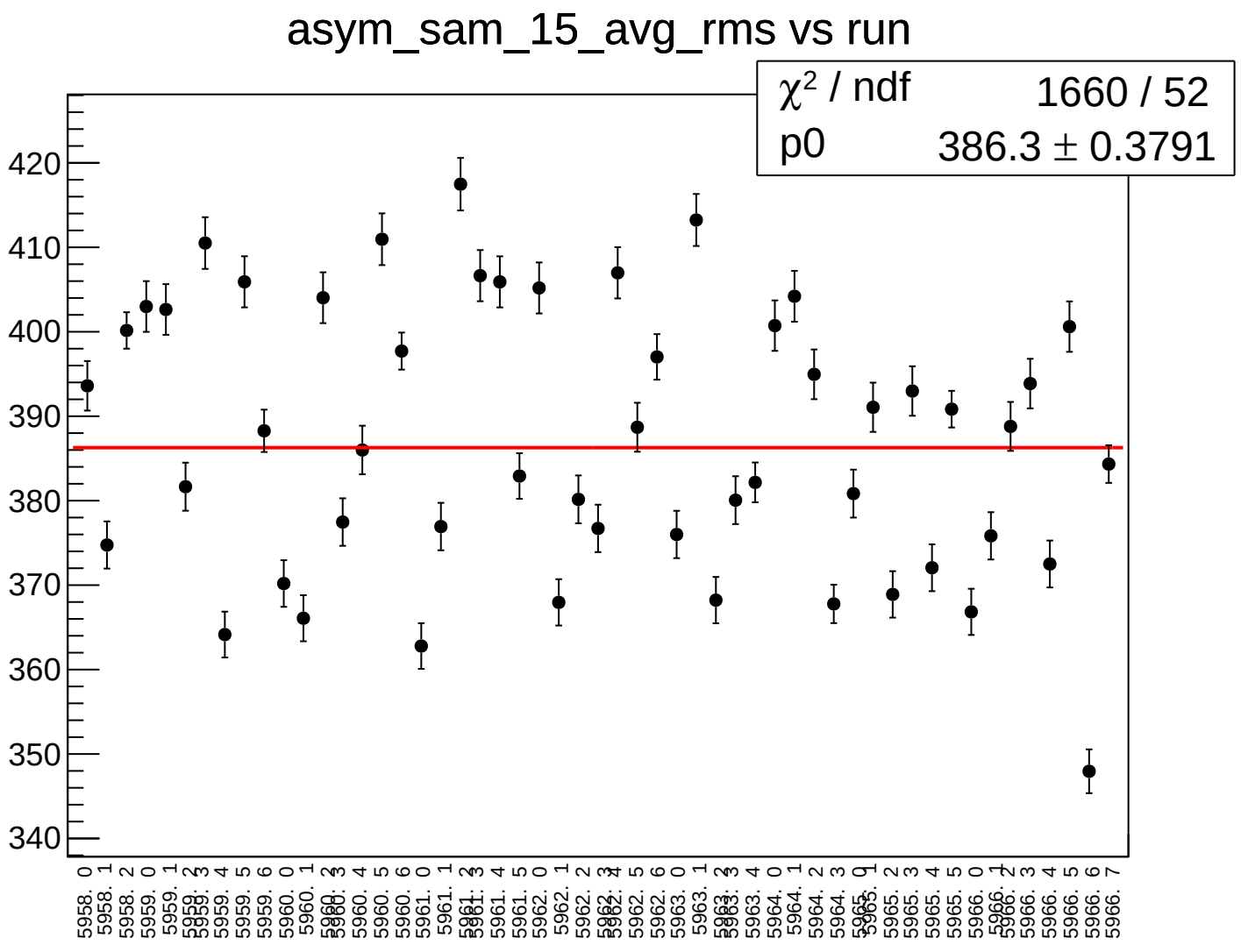

asym_sam_15_avg_correction_mean vs run
χ² / ndf 48.51 / 52
p0 373.5 ± 527.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 53
Mean 3346
Std Dev 3320
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

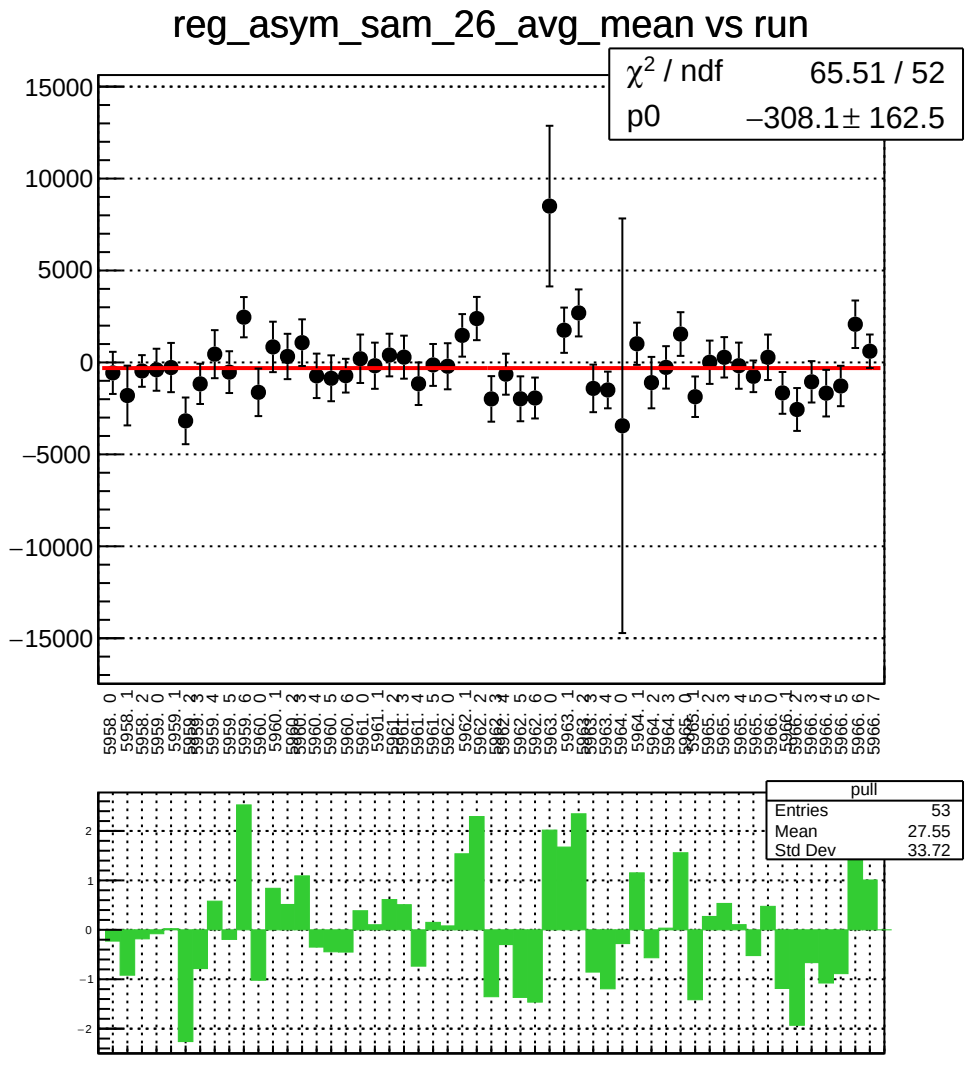

pull1D
Entries 53
Mean −0.0007656
Std Dev 0.9567
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

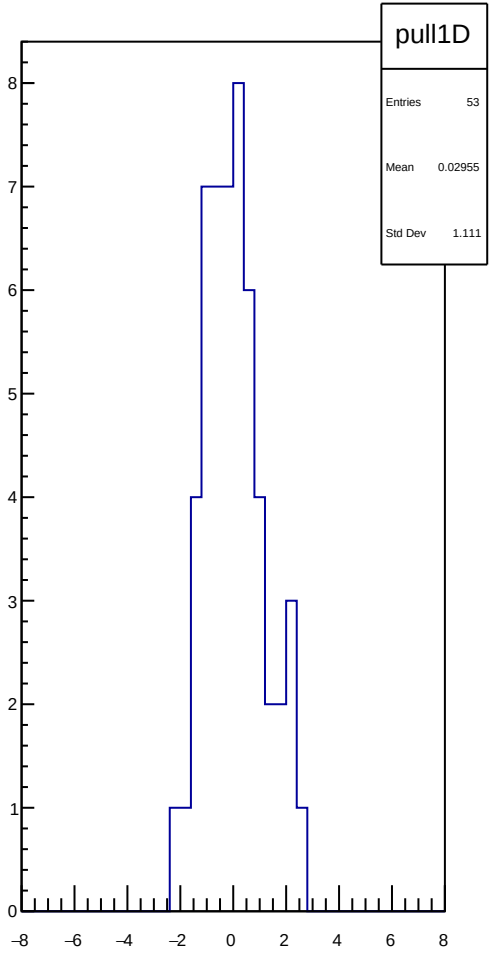

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1761 / 52
p0 379.8 ± 0.3728
420
410
400
390
380
370
360
350
340

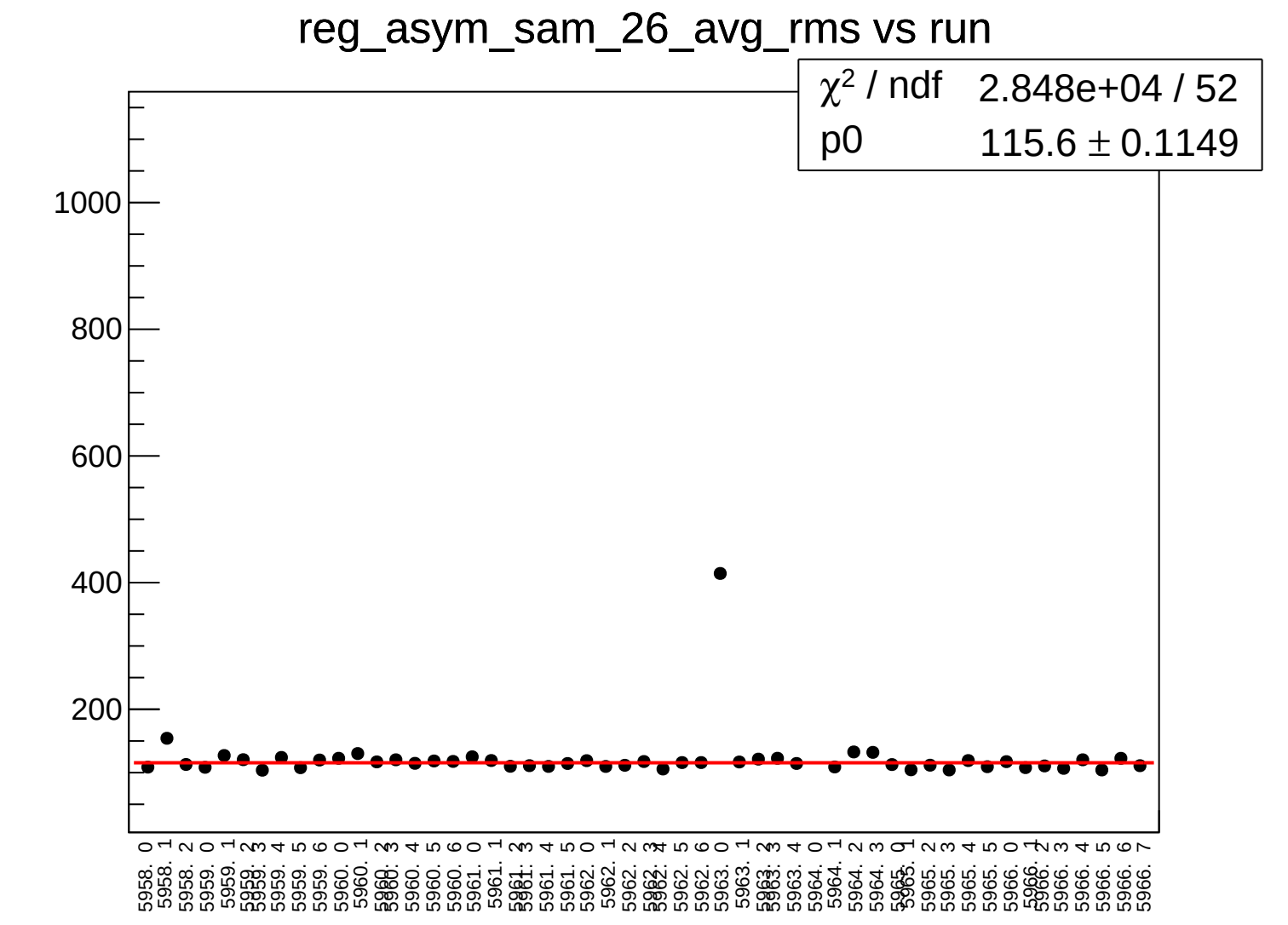

asym_sam_15_avg_mean vs run
χ² / ndf 50.44 / 52
p0 −371.3 ± 536.2
15000
10000
5000
0
−5000
−10000
pull
Entries 53
Mean 3.804e+04
Std Dev 3.801e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

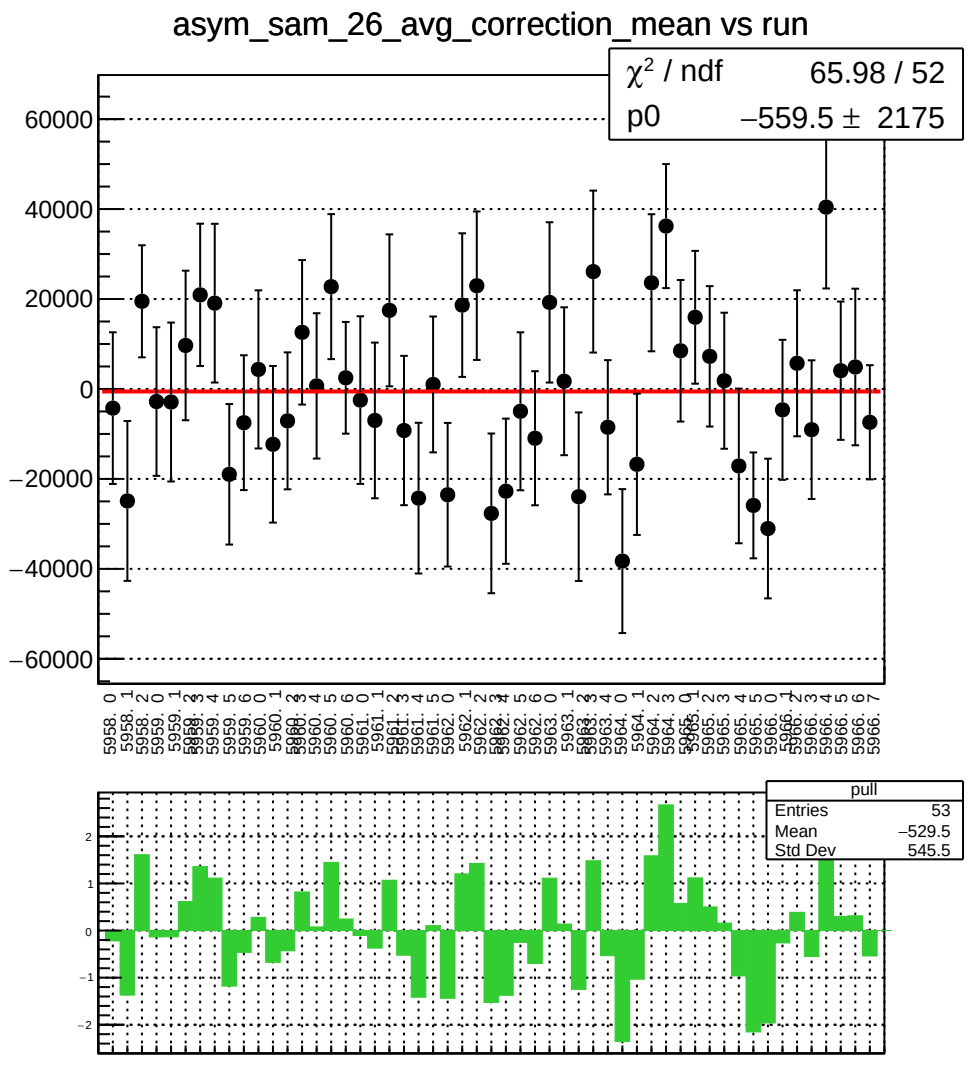

pull1D
Entries 53
Mean 4.667e−05
Std Dev 0.9755
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

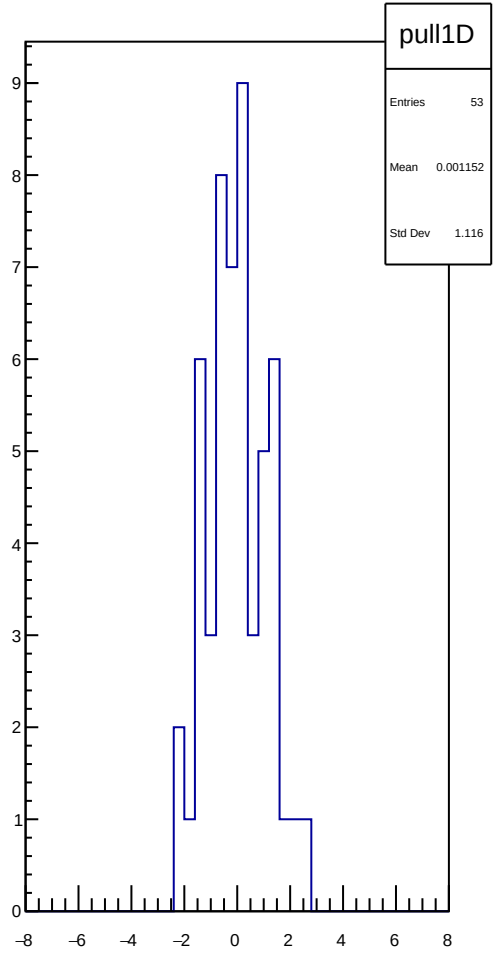

asym_sam_15_avg_rms vs run
χ² / ndf 1660 / 52
p0 386.3 ± 0.3791
420
410
400
390
380
370
360
350
340
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

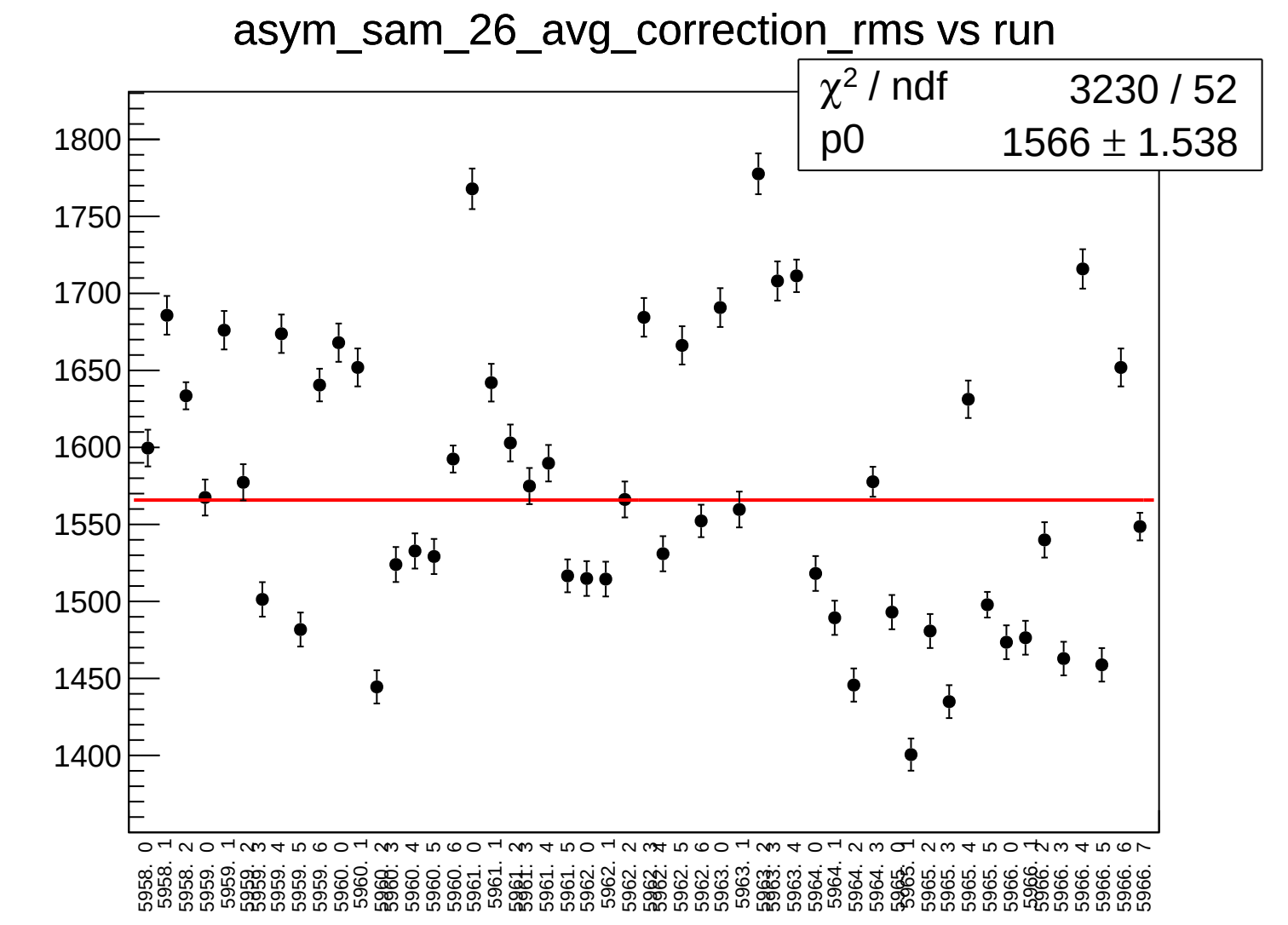

reg_asym_sam_26_avg_mean vs run
χ² / ndf 65.51 / 52
p0 −308.1± 162.5
pull
Entries 53
Mean 27.55
Std Dev 33.72

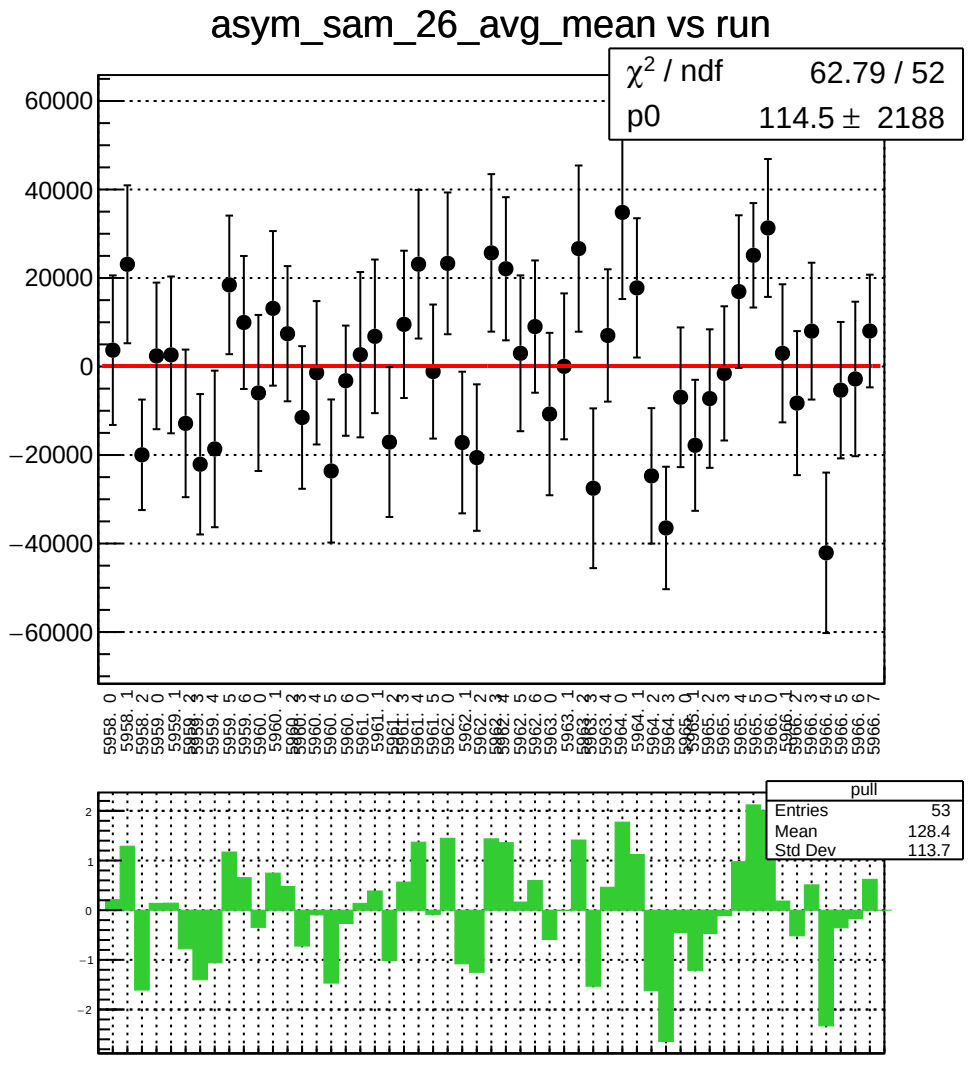

pull1D
Entries 53
Mean 0.02955
Std Dev 1.111

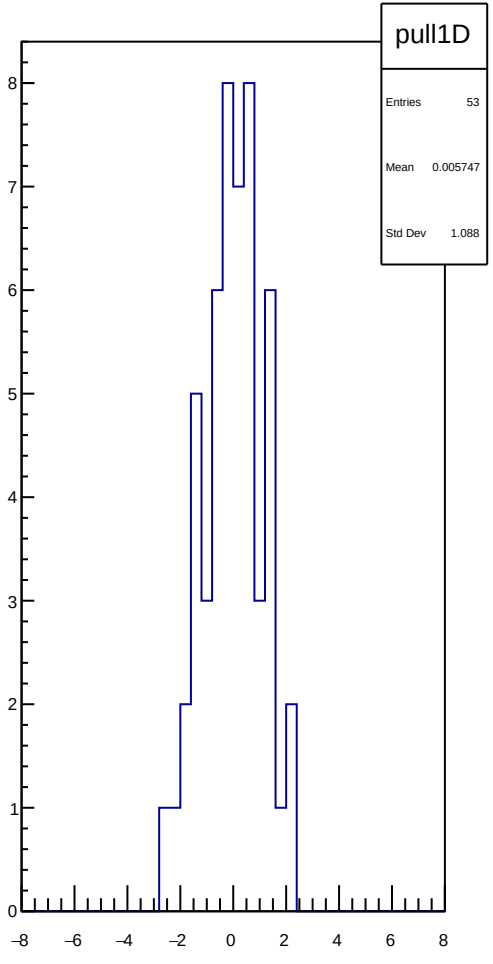

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.848e+04 / 52
p0 115.6 ± 0.1149
1000
800
600
400
200

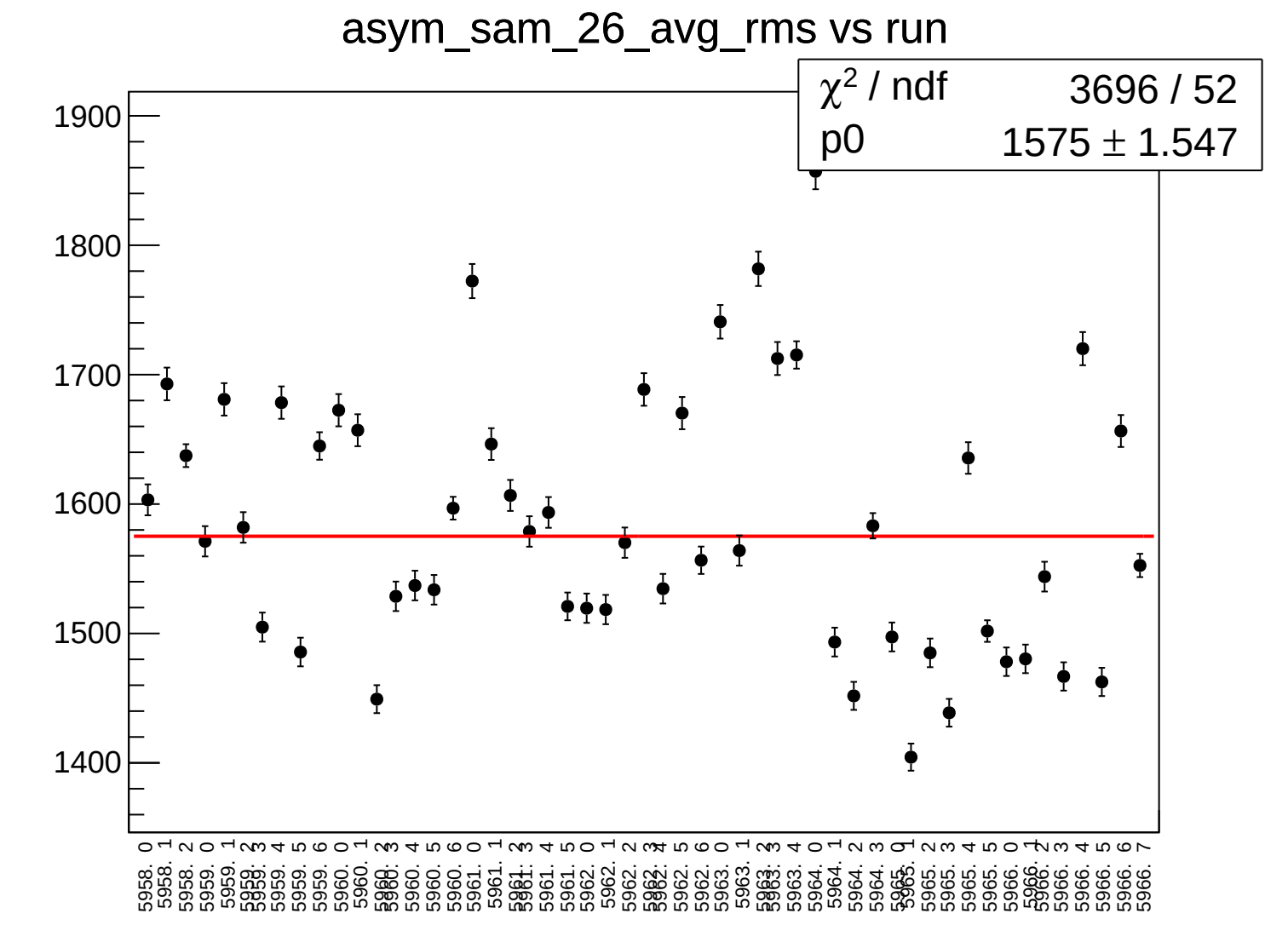

asym_sam_26_avg_correction_mean vs run
χ² / ndf 65.98 / 52
p0 −559.5 ± 2175
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 53
Mean −529.5
Std Dev 545.5
2
1
0
−1
−2


pull1D
Entries 53
Mean 0.001152
Std Dev 1.116
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_correction_rms vs run
χ² / ndf 3230 / 52
p0 1566 ± 1.538
1800
1750
1700
1650
1600
1550
1500
1450
1400


asym_sam_26_avg_mean vs run
χ² / ndf 62.79 / 52
p0 114.5 ± 2188
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 53
Mean 128.4
Std Dev 113.7
2
1
0
−1
−2


pull1D
Entries 53
Mean 0.005747
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_rms vs run
χ² / ndf 3696 / 52
p0 1575 ± 1.547
1900
1800
1700
1600
1500
1400
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
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5966. 2
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5966. 4
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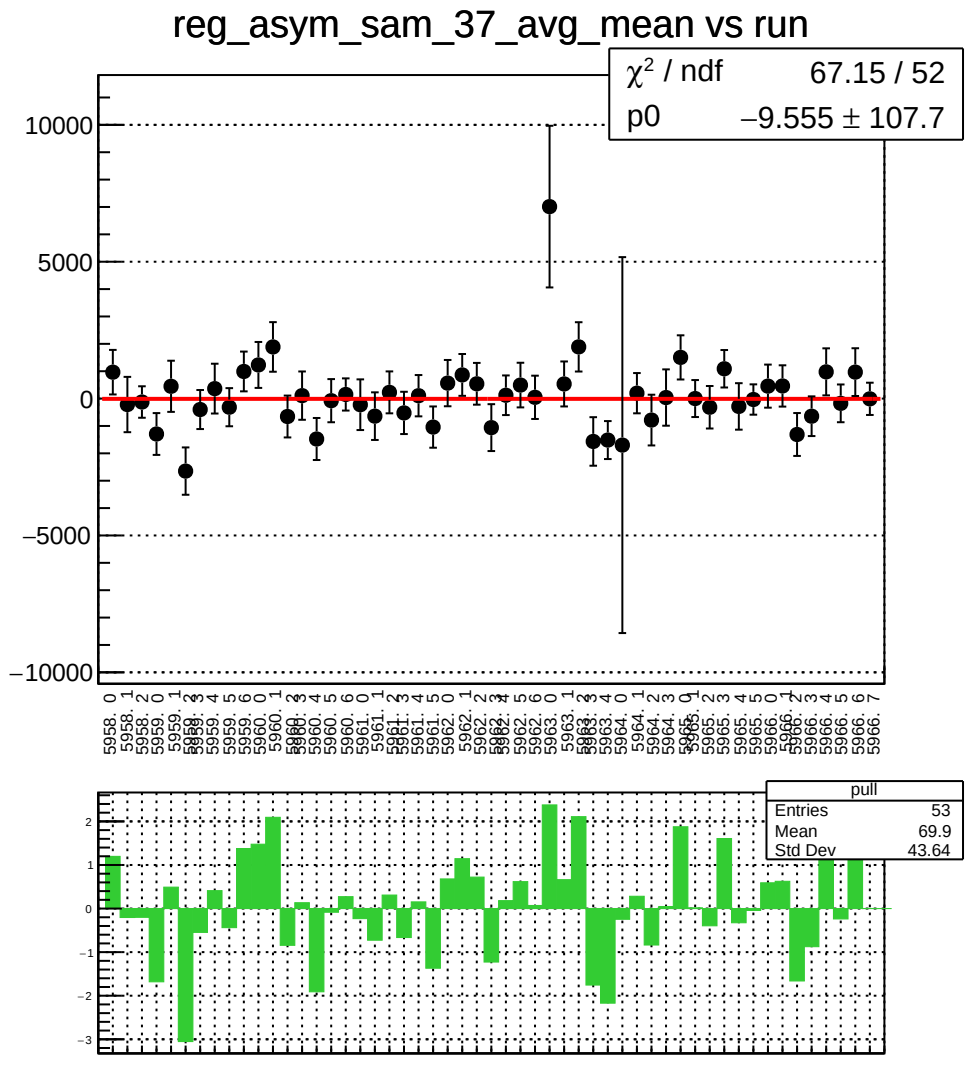
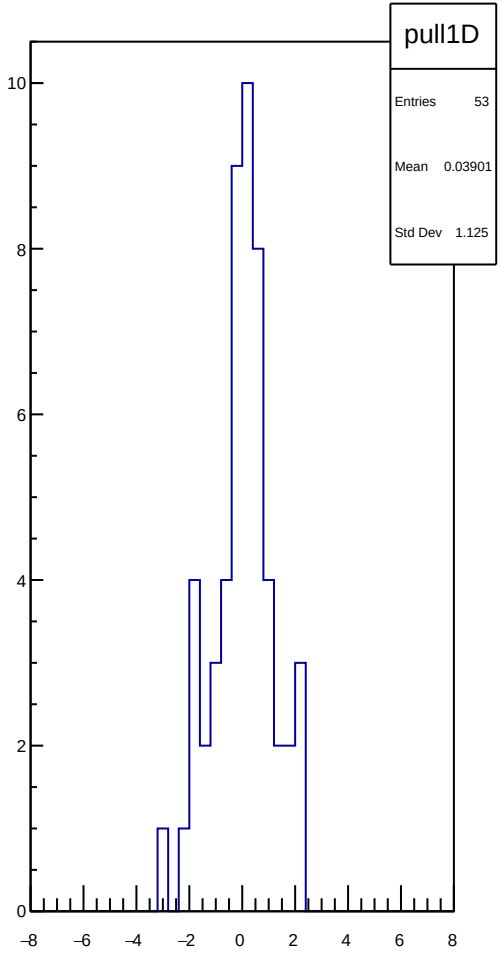
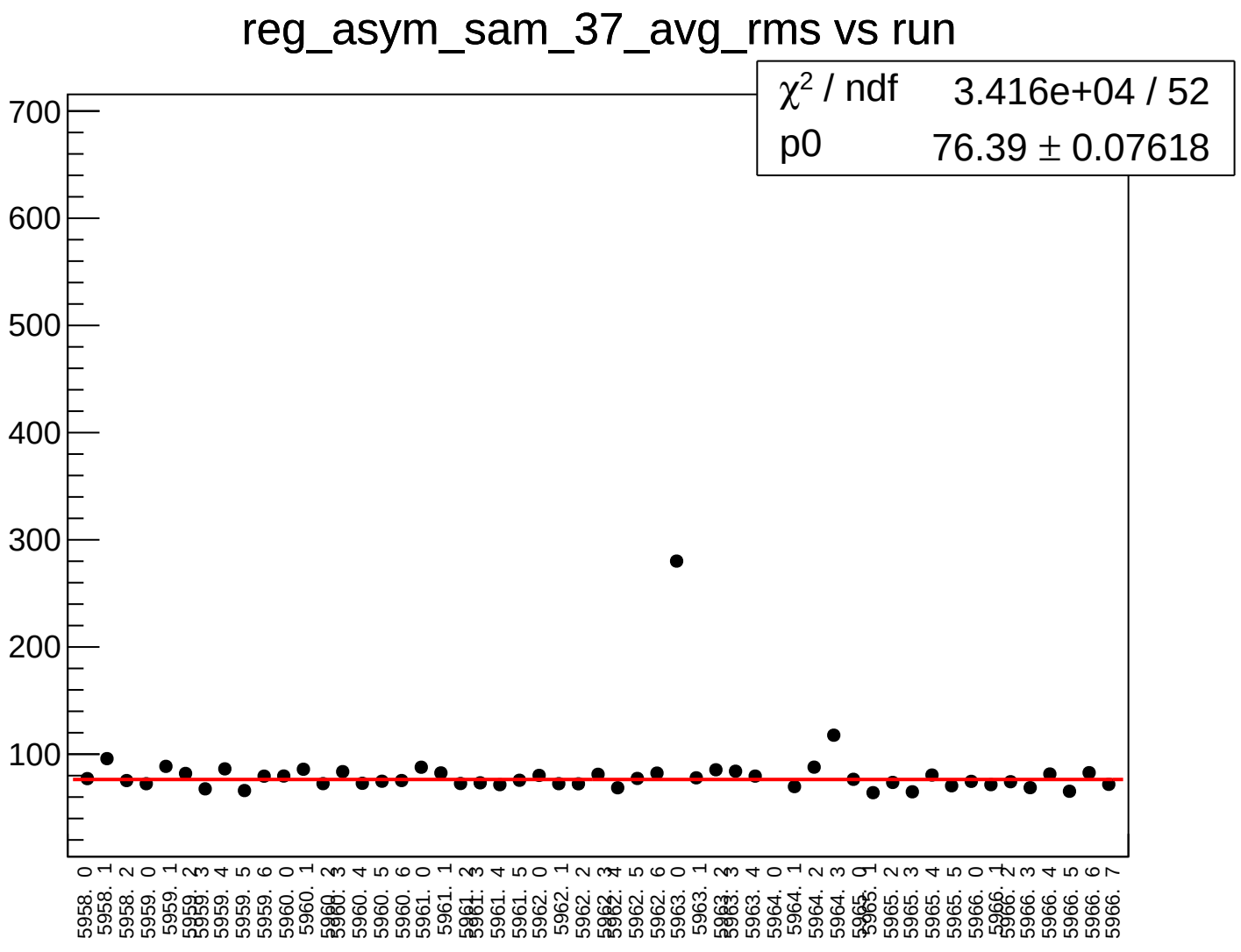
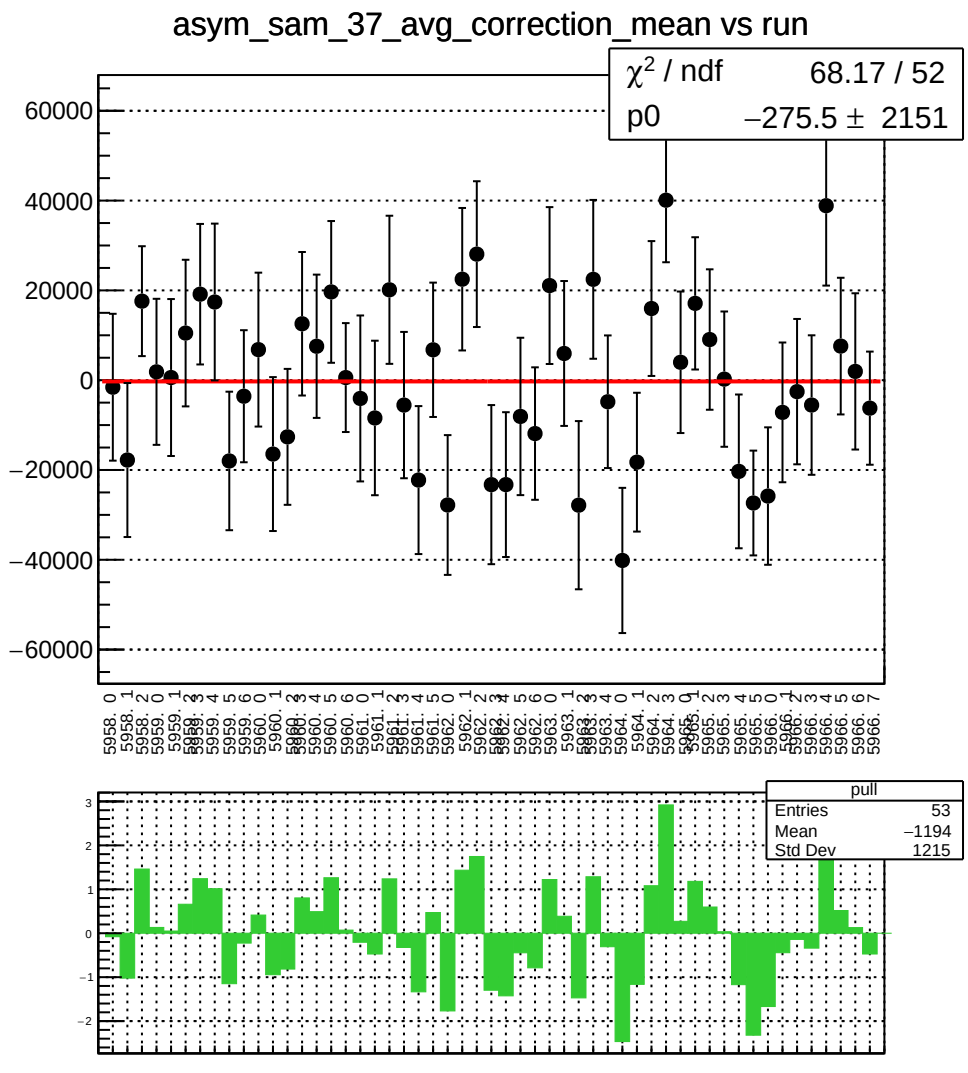
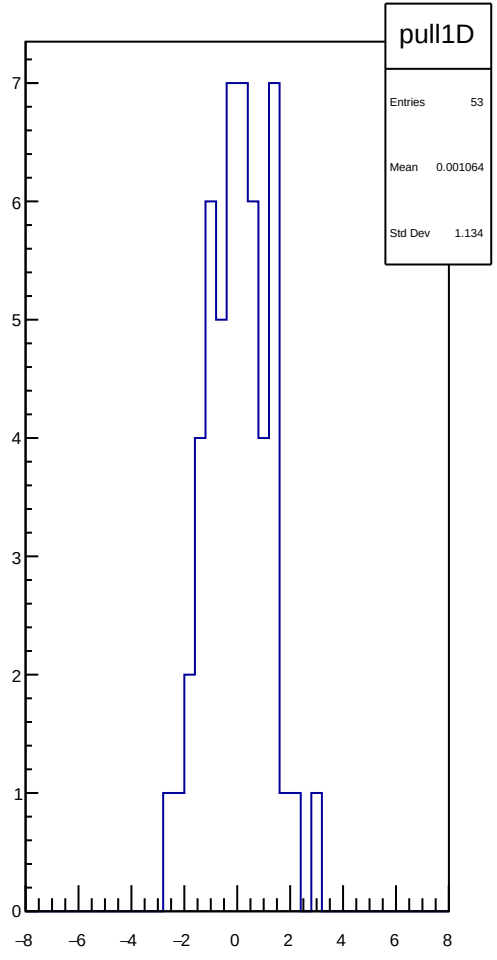
5966. 6
5966. 7

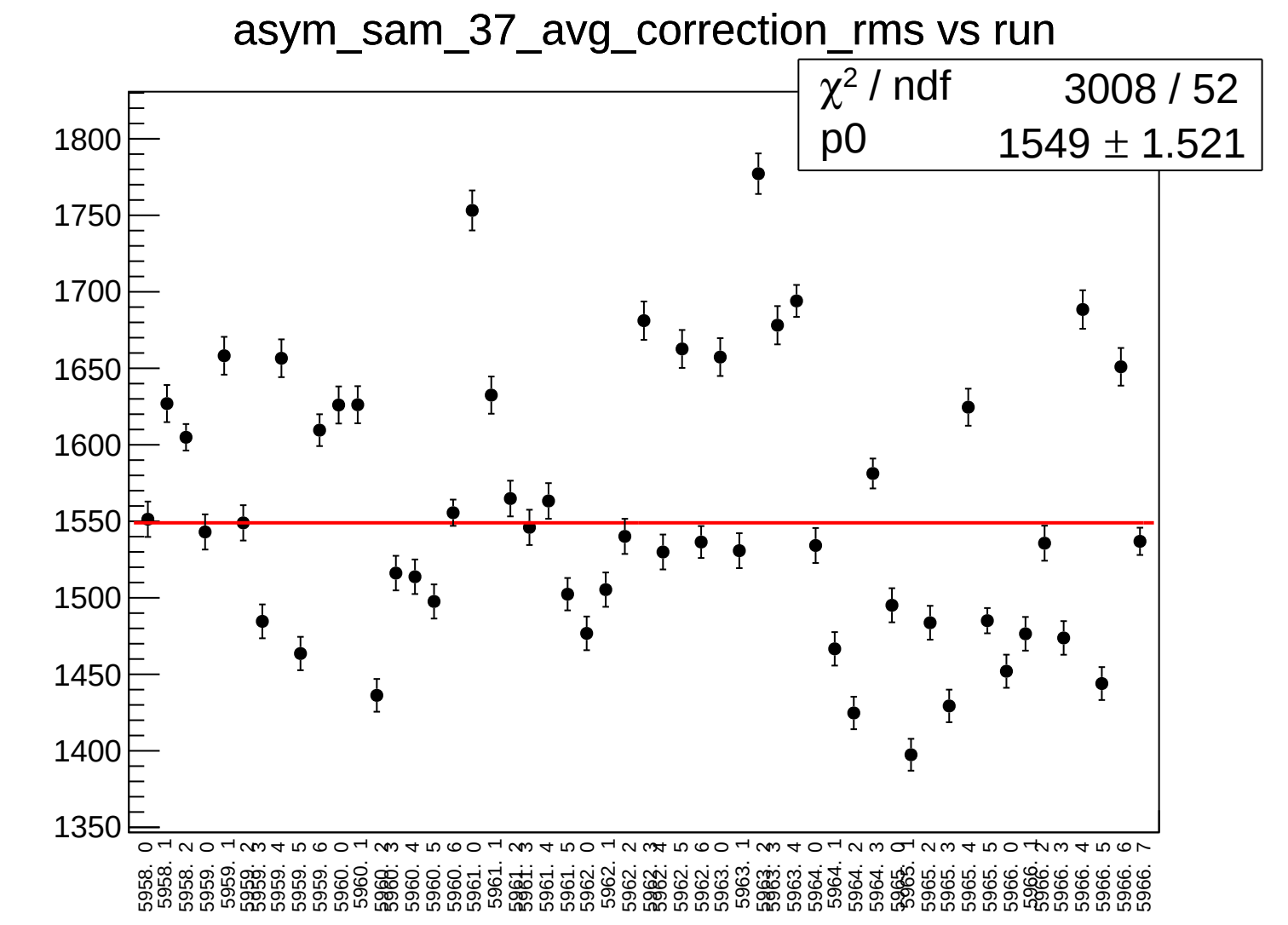

reg_asym_sam_37_avg_mean vs run
χ² / ndf 67.15 / 52
p0 −9.555 ± 107.7
10000
5000
0
−5000
−10000
pull
Entries 53
Mean 69.9
Std Dev 43.64
2
1
0
−1
−2
−3

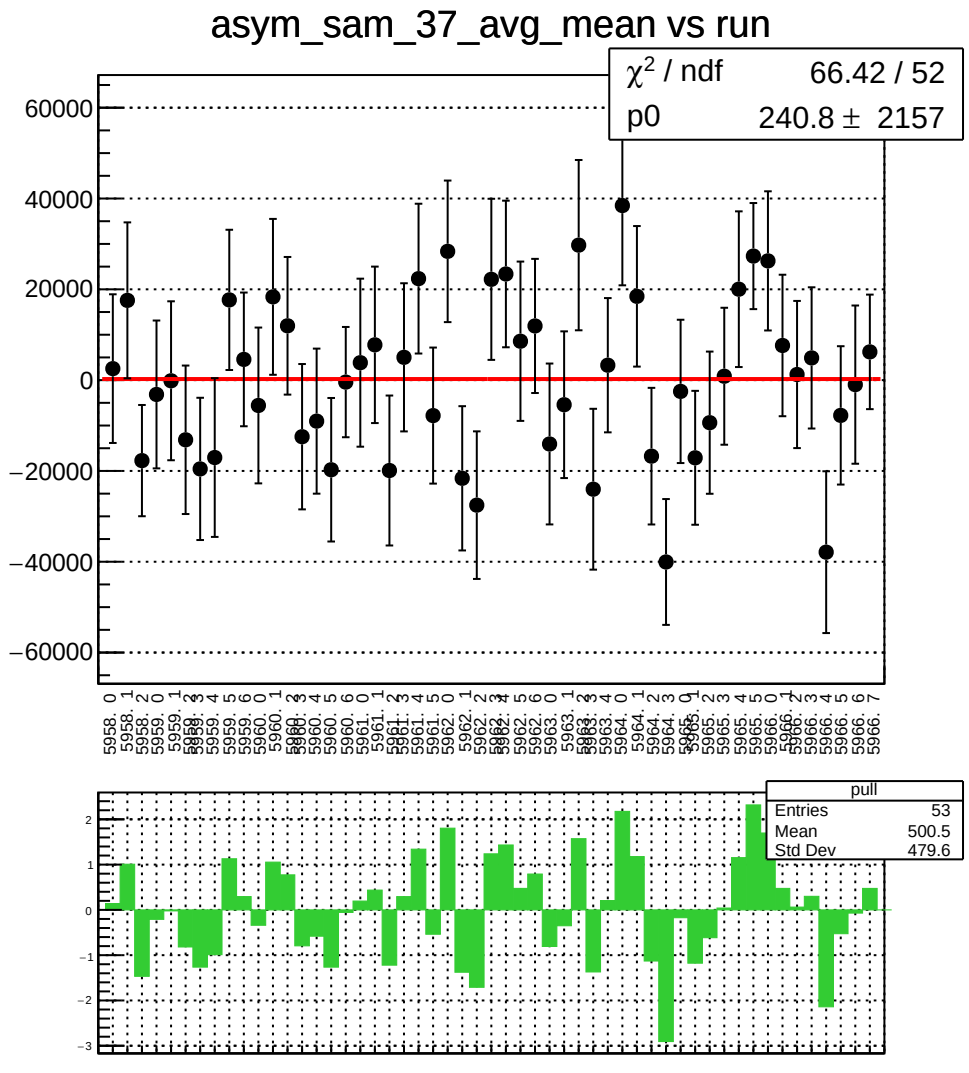

pull1D
Entries 53
Mean 0.03901
Std Dev 1.125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

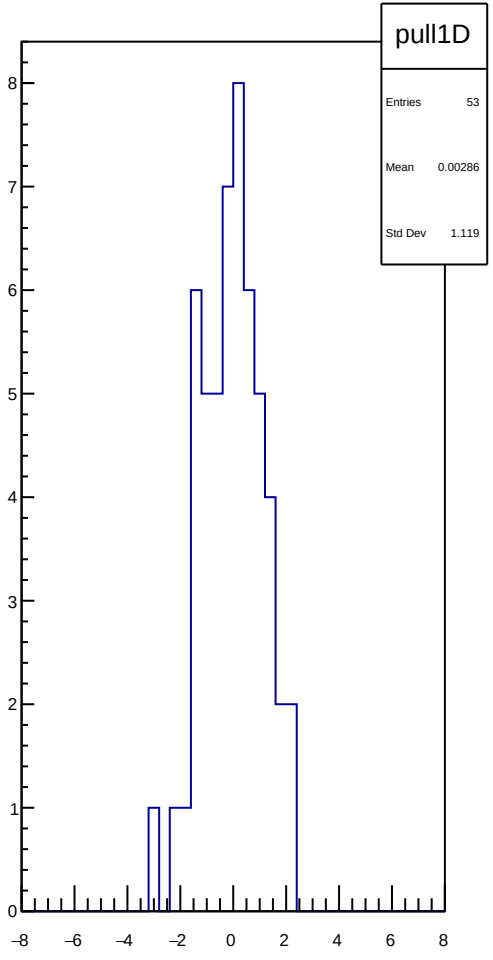

reg_asym_sam_37_avg_rms vs run
χ² / ndf 3.416e+04 / 52
p0 76.39 ± 0.07618
700
600
500
400
300
200
100

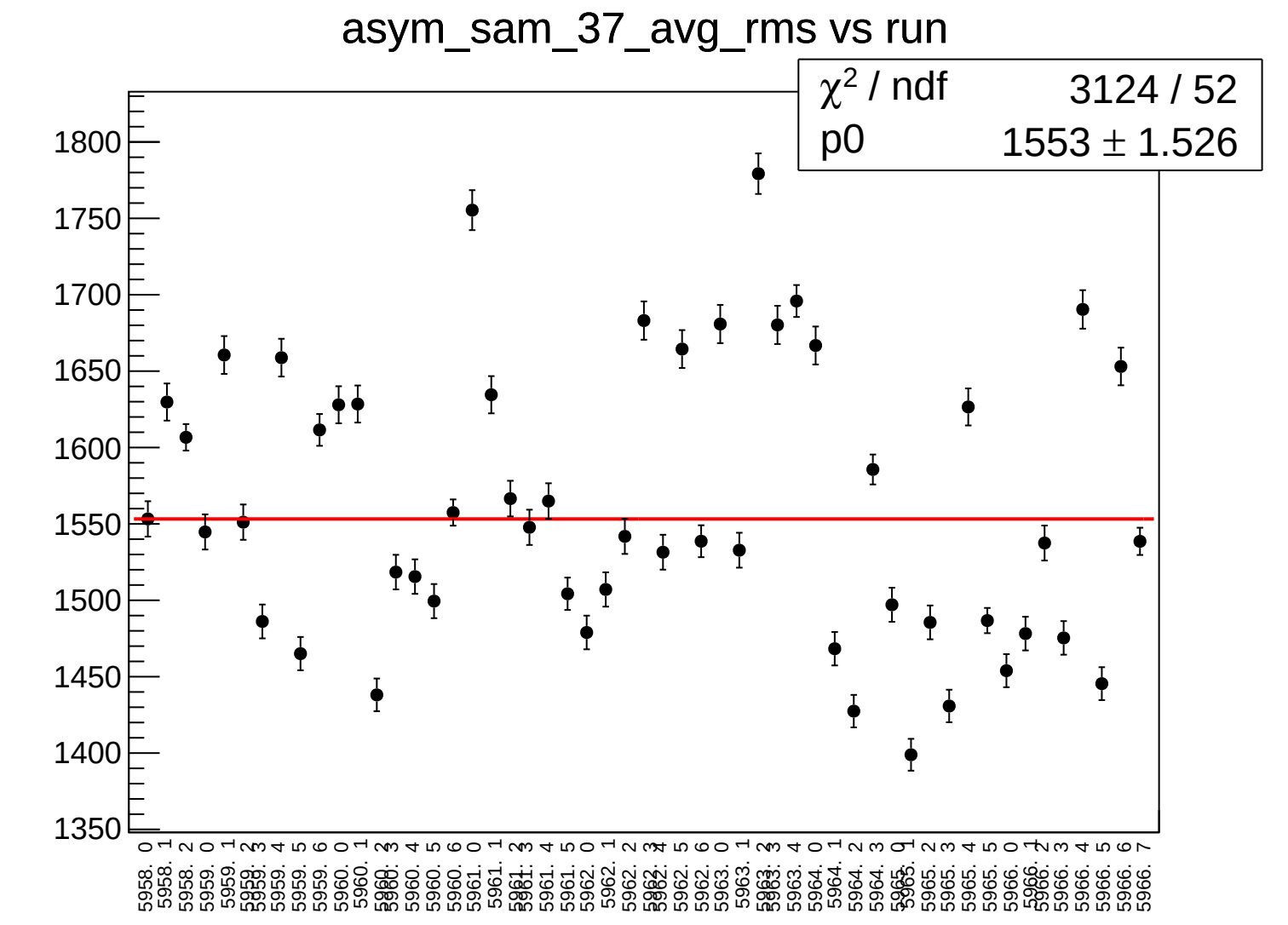

asym_sam_37_avg_correction_mean vs run
χ² / ndf 68.17 / 52
p0 −275.5 ± 2151
pull
Entries 53
Mean −1194
Std Dev 1215

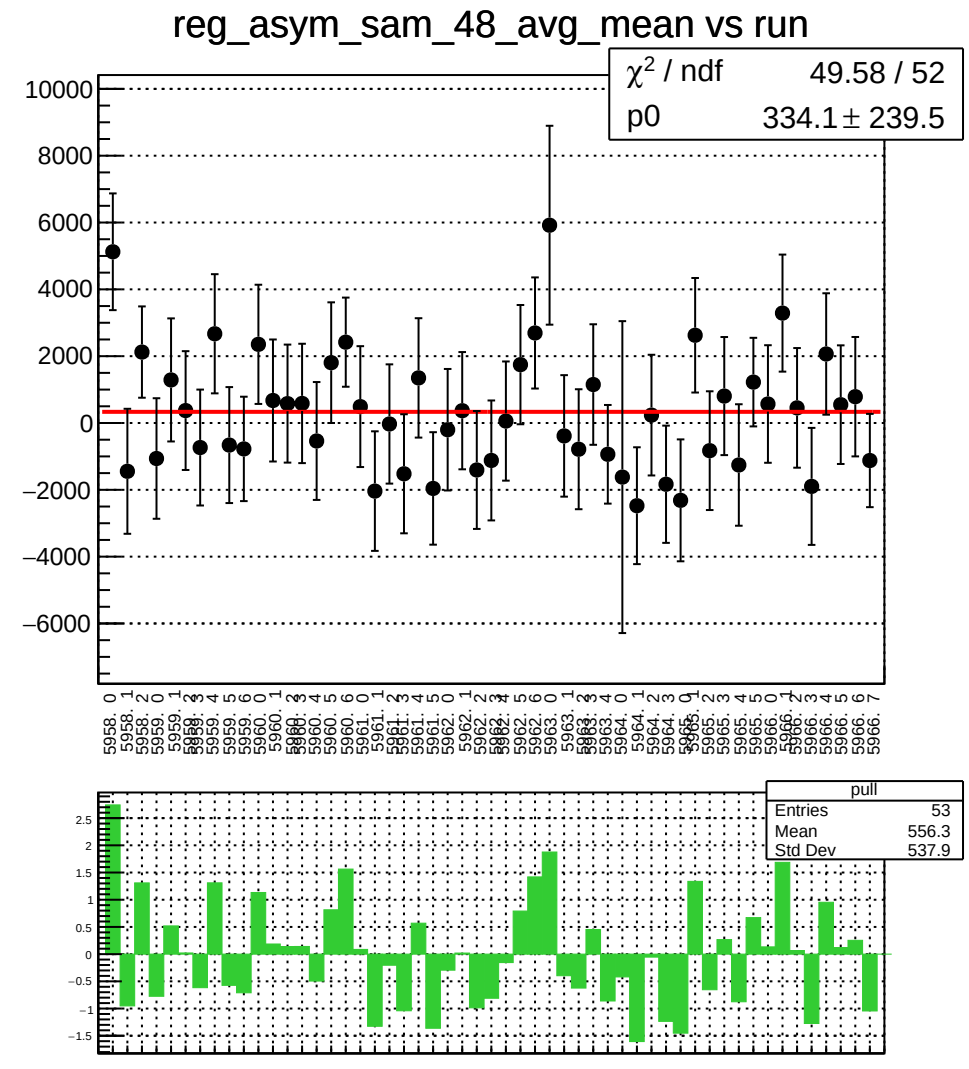

pull1D
Entries 53
Mean 0.001064
Std Dev 1.134

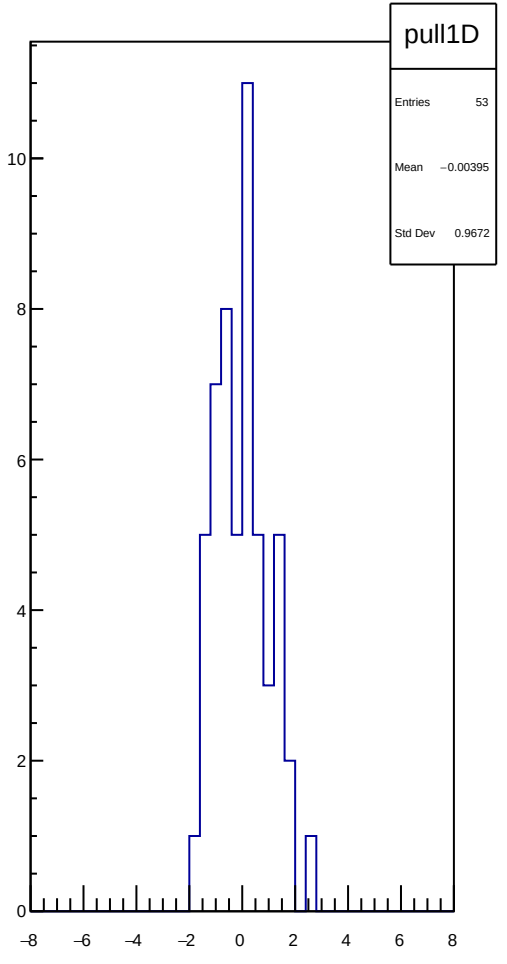

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3008 / 52
p0 1549 ± 1.521
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 4
5966. 5
5966. 6
5966. 7

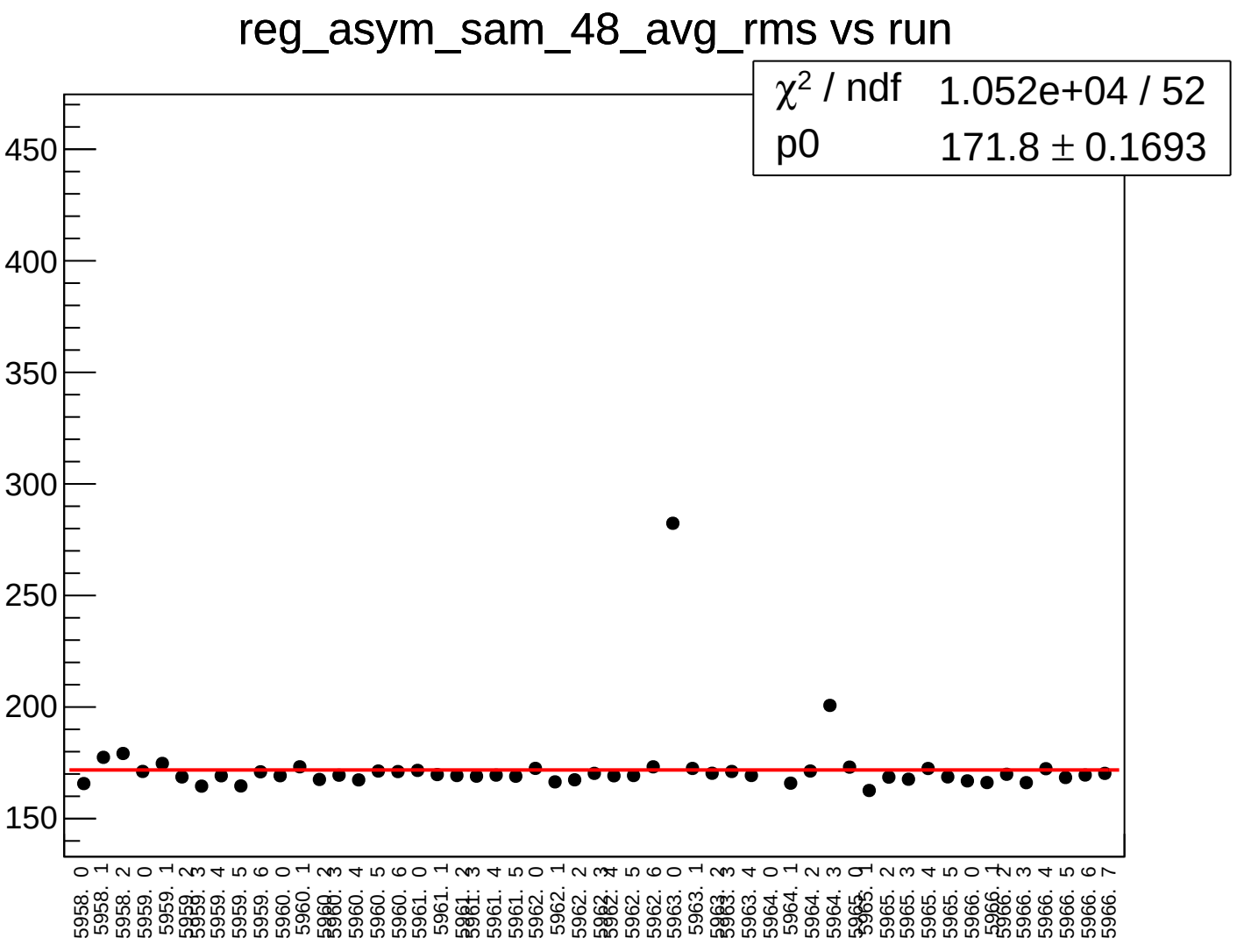

asym_sam_37_avg_mean vs run
χ² / ndf 66.42 / 52
p0 240.8 ± 2157
pull
Entries 53
Mean 500.5
Std Dev 479.6

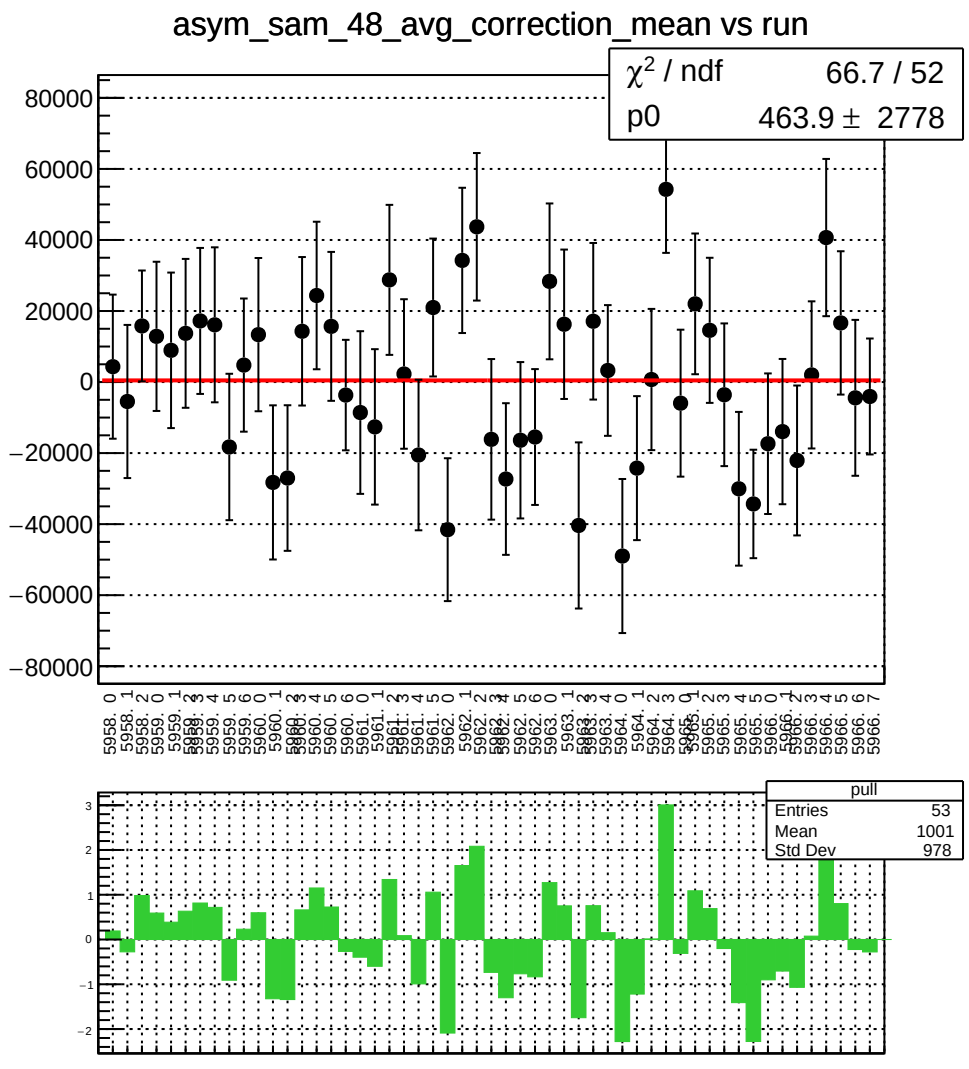

pull1D
Entries 53
Mean 0.00286
Std Dev 1.119

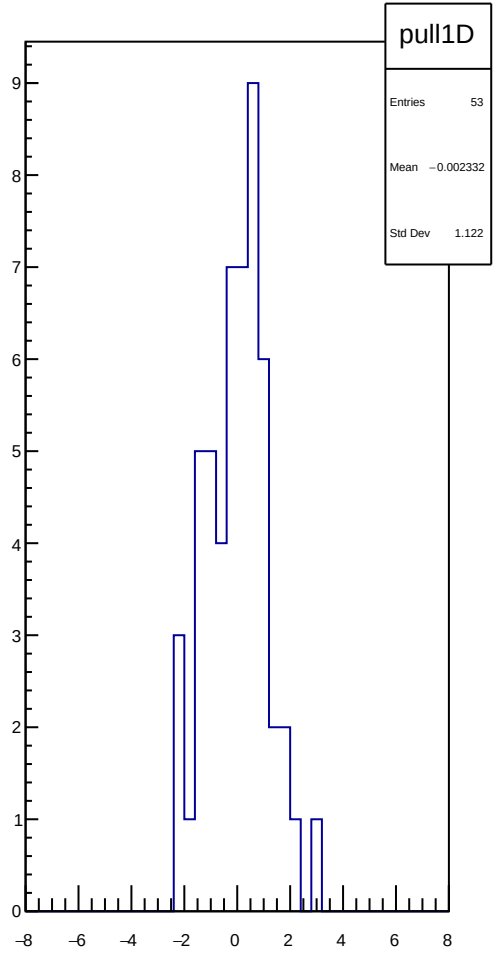

asym_sam_37_avg_rms vs run
χ² / ndf 3124 / 52
p0 1553 ± 1.526
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

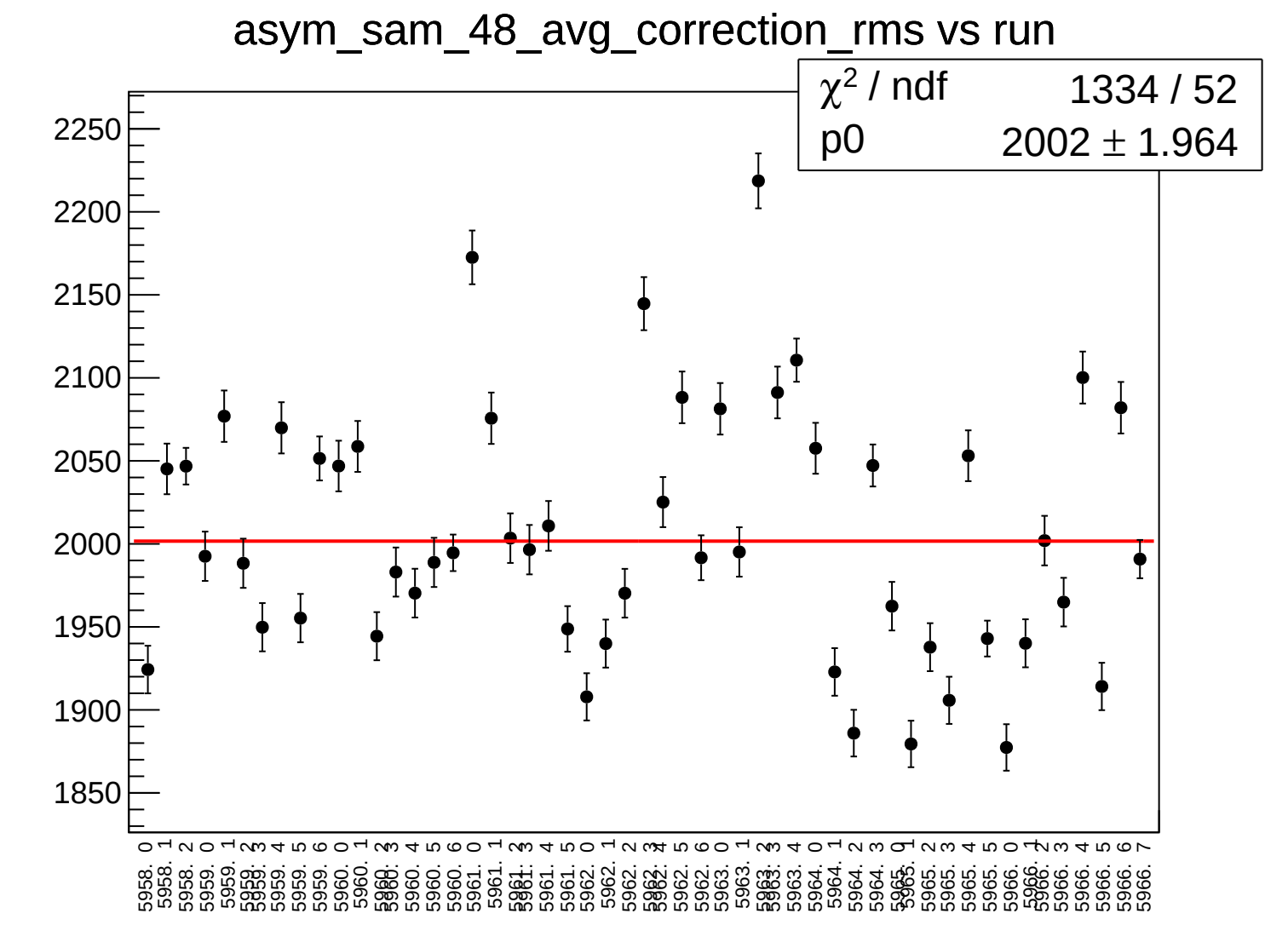

reg_asym_sam_48_avg_mean vs run
χ² / ndf 49.58 / 52
p0 334.1 ± 239.5
pull
Entries 53
Mean 556.3
Std Dev 537.9

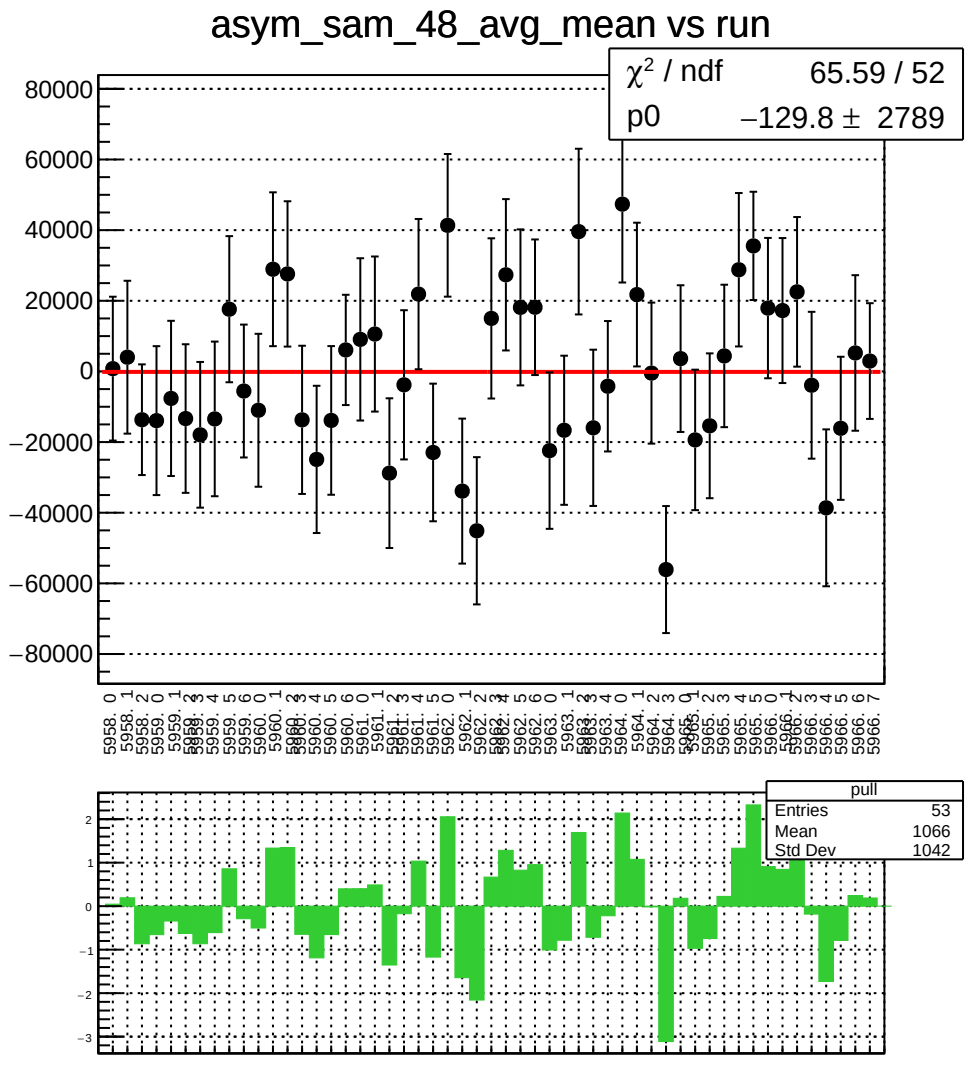

pull1D
Entries 53
Mean −0.00395
Std Dev 0.9672

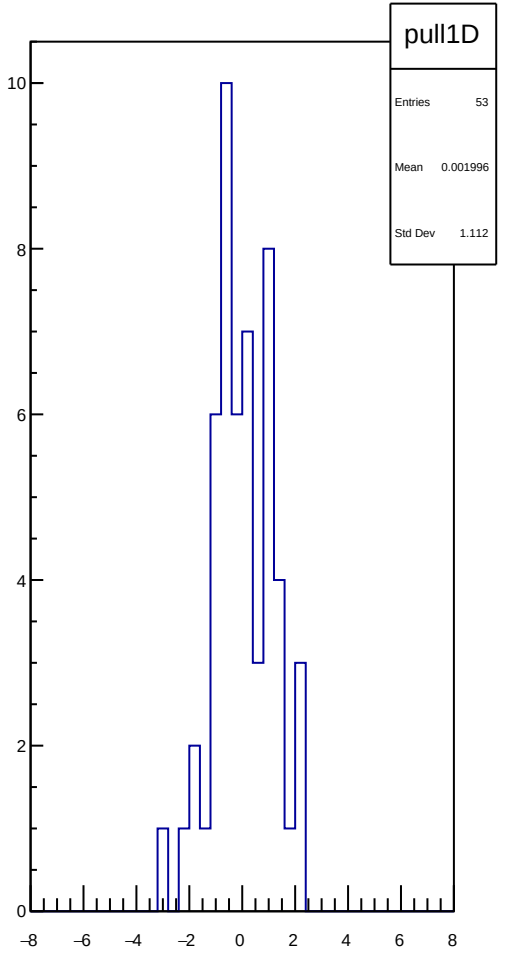

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.052e+04 / 52
p0 171.8 ± 0.1693
450
400
350
300
250
200
150

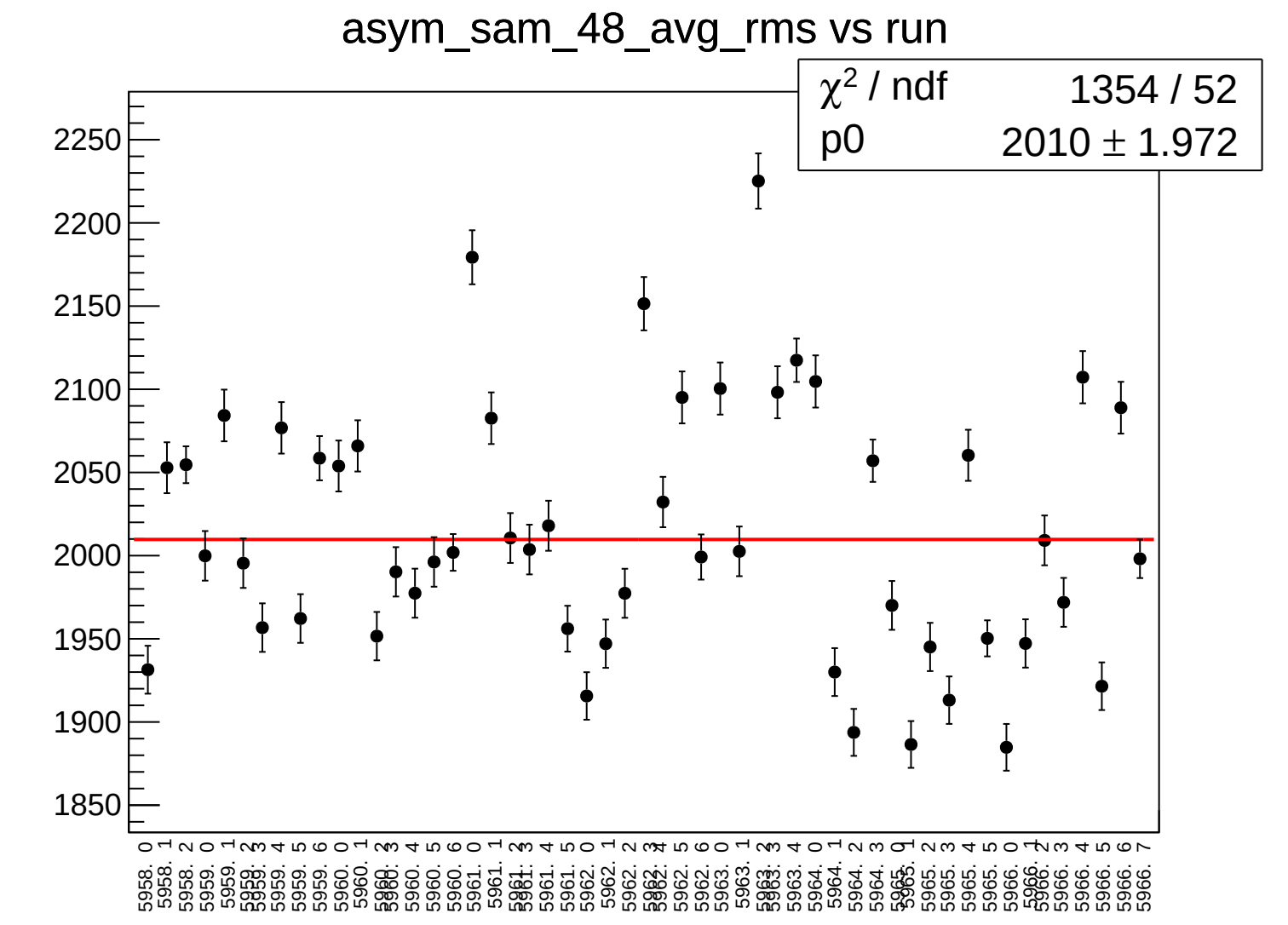

asym_sam_48_avg_correction_mean vs run
χ² / ndf 66.7 / 52
p0 463.9 ± 2778
pull
Entries 53
Mean 1001
Std Dev 978

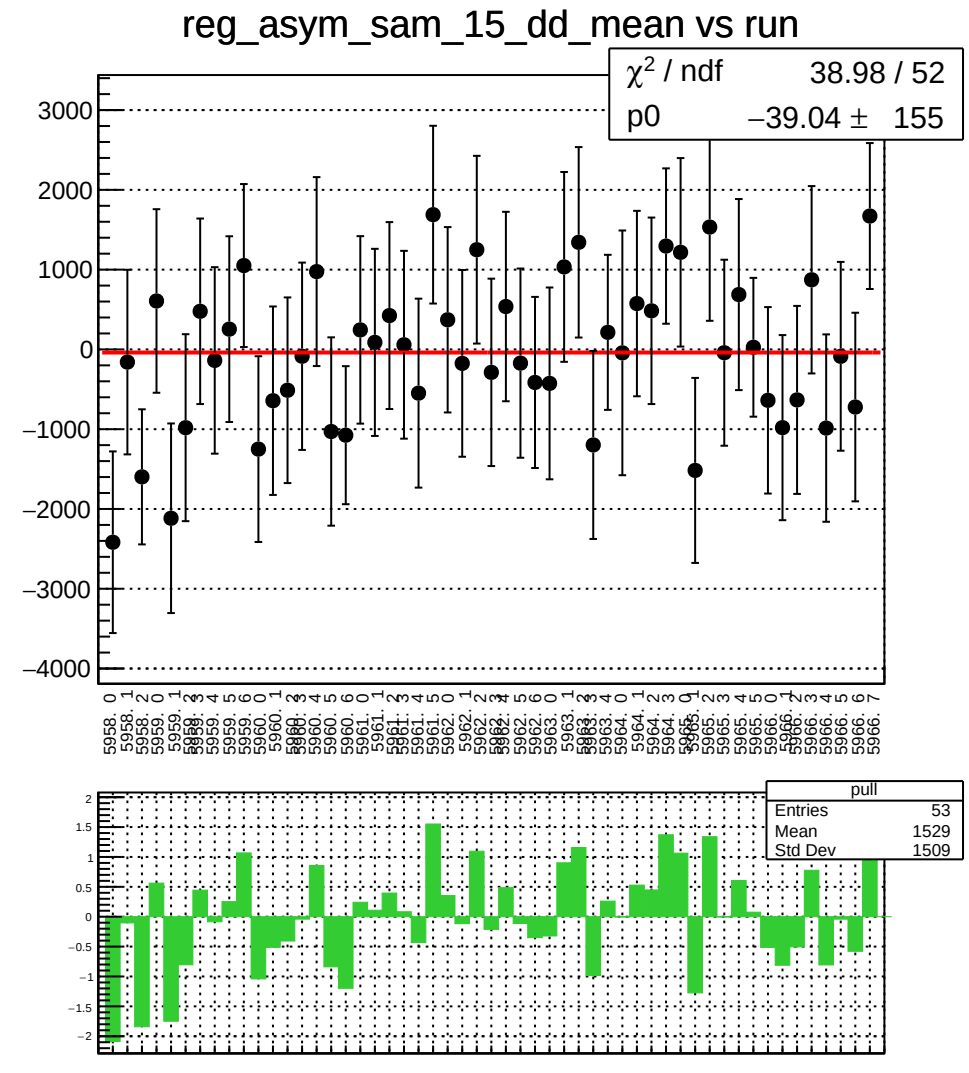

pull1D
Entries 53
Mean −0.002332
Std Dev 1.122

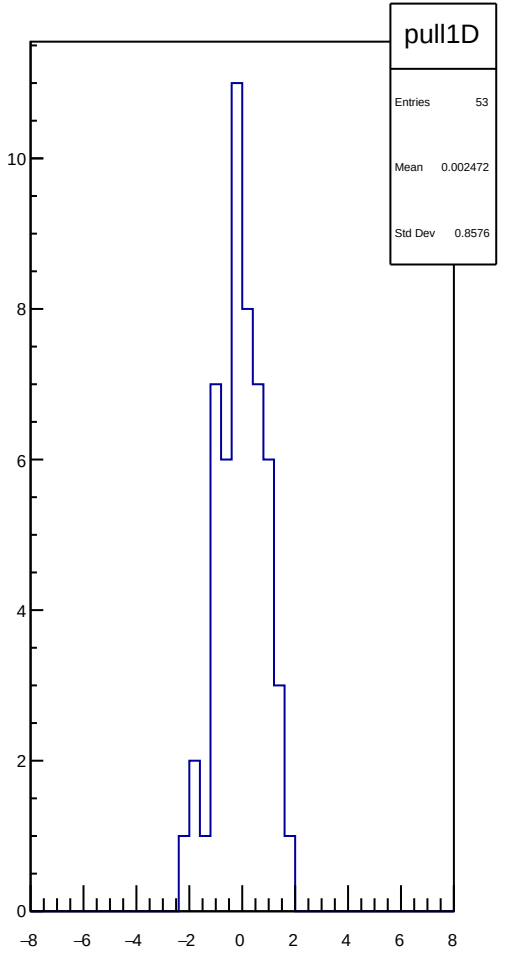

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1334 / 52
p0 2002 ± 1.964
2250
2200
2150
2100
2050
2000
1950
1900
1850
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

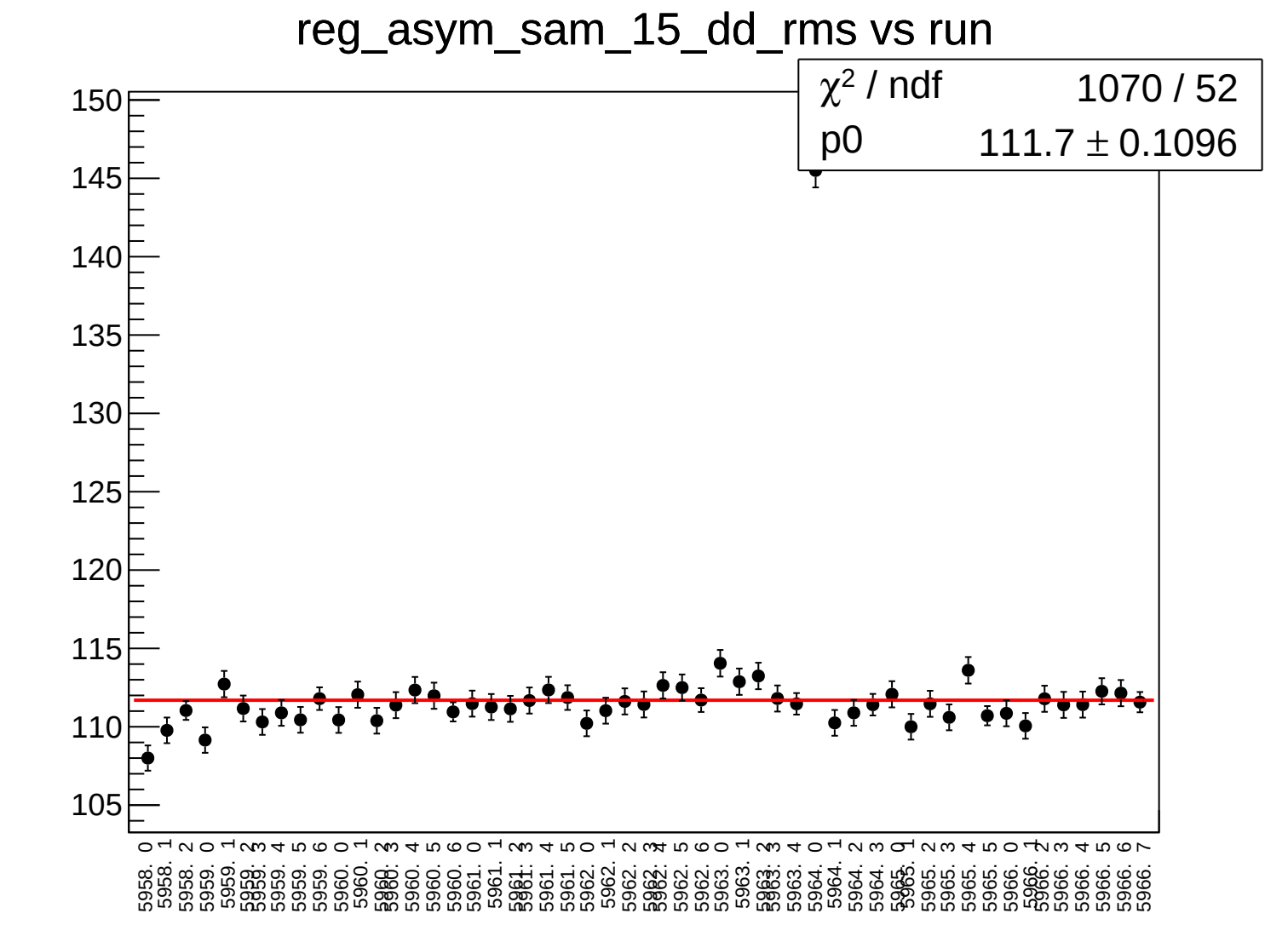

asym_sam_48_avg_mean vs run
χ² / ndf 65.59 / 52
p0 −129.8 ± 2789
pull
Entries 53
Mean 1066
Std Dev 1042

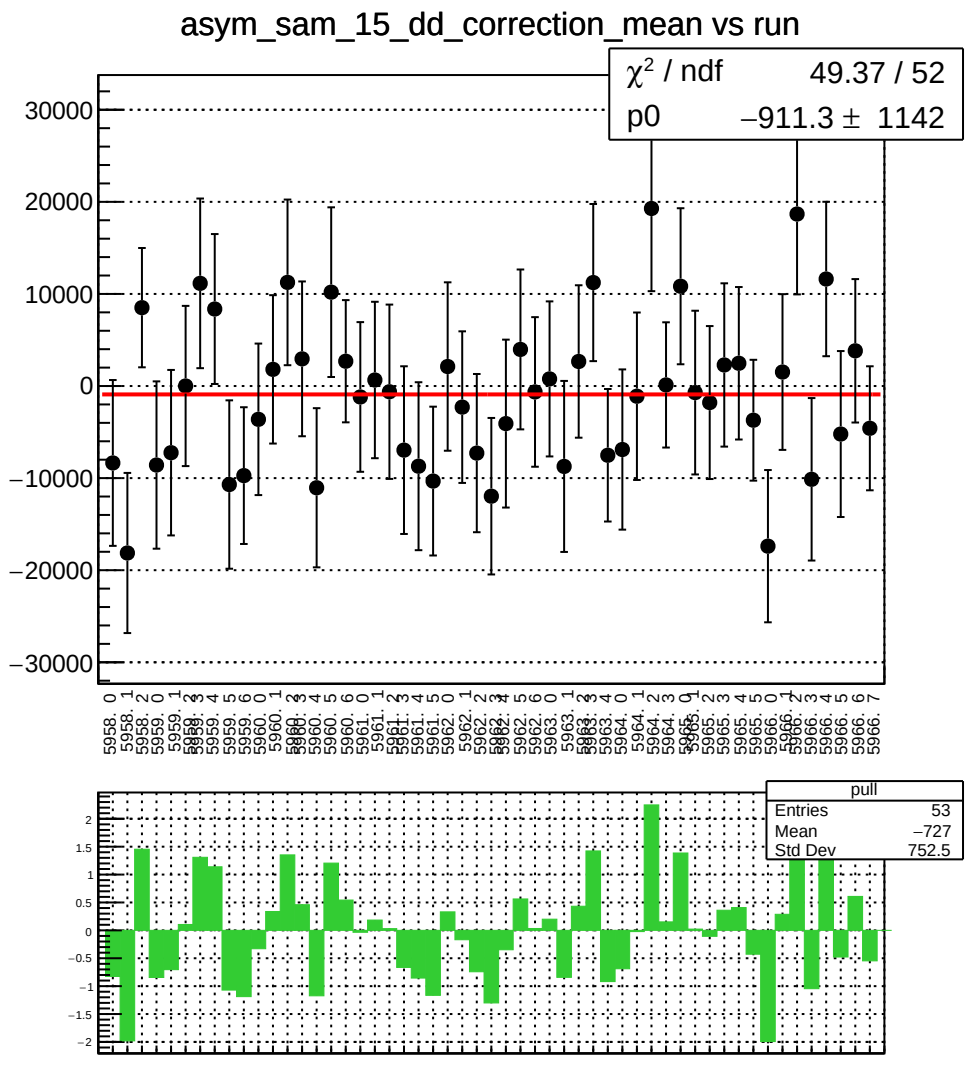

pull1D
Entries 53
Mean 0.001996
Std Dev 1.112

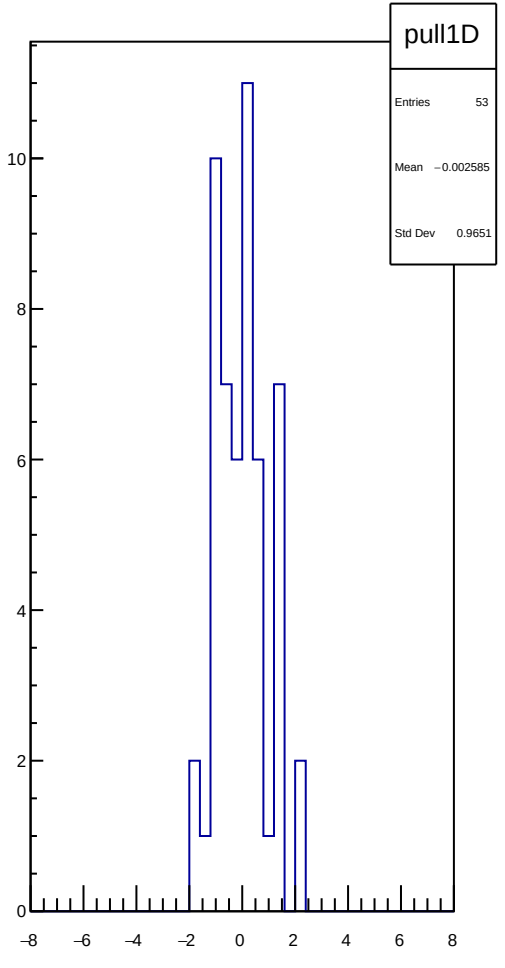

asym_sam_48_avg_rms vs run
χ² / ndf 1354 / 52
p0 2010 ± 1.972
2250
2200
2150
2100
2050
2000
1950
1900
1850

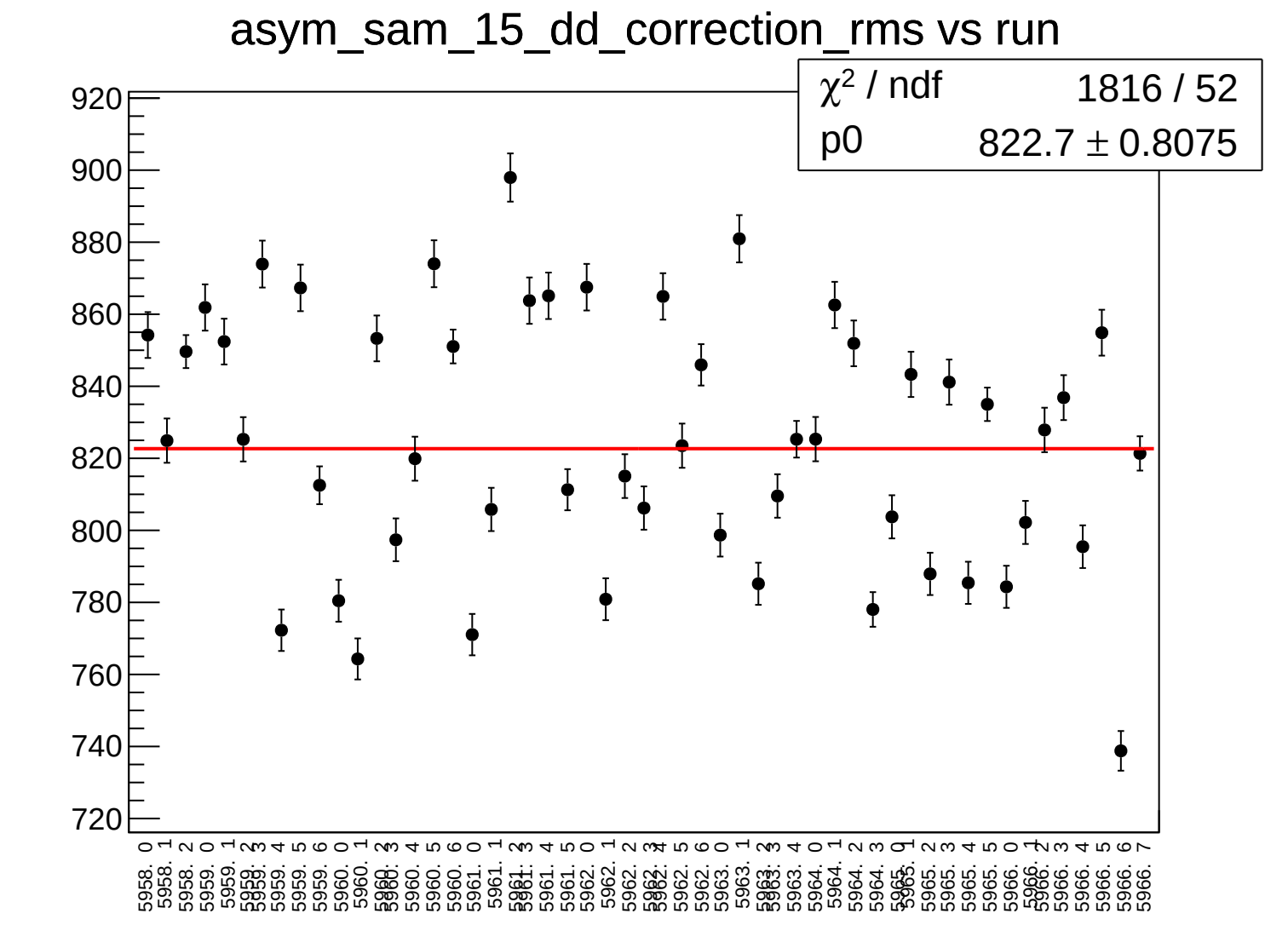

reg_asym_sam_15_dd_mean vs run
χ² / ndf 38.98 / 52
p0 −39.04 ± 155
pull
Entries 53
Mean 1529
Std Dev 1509

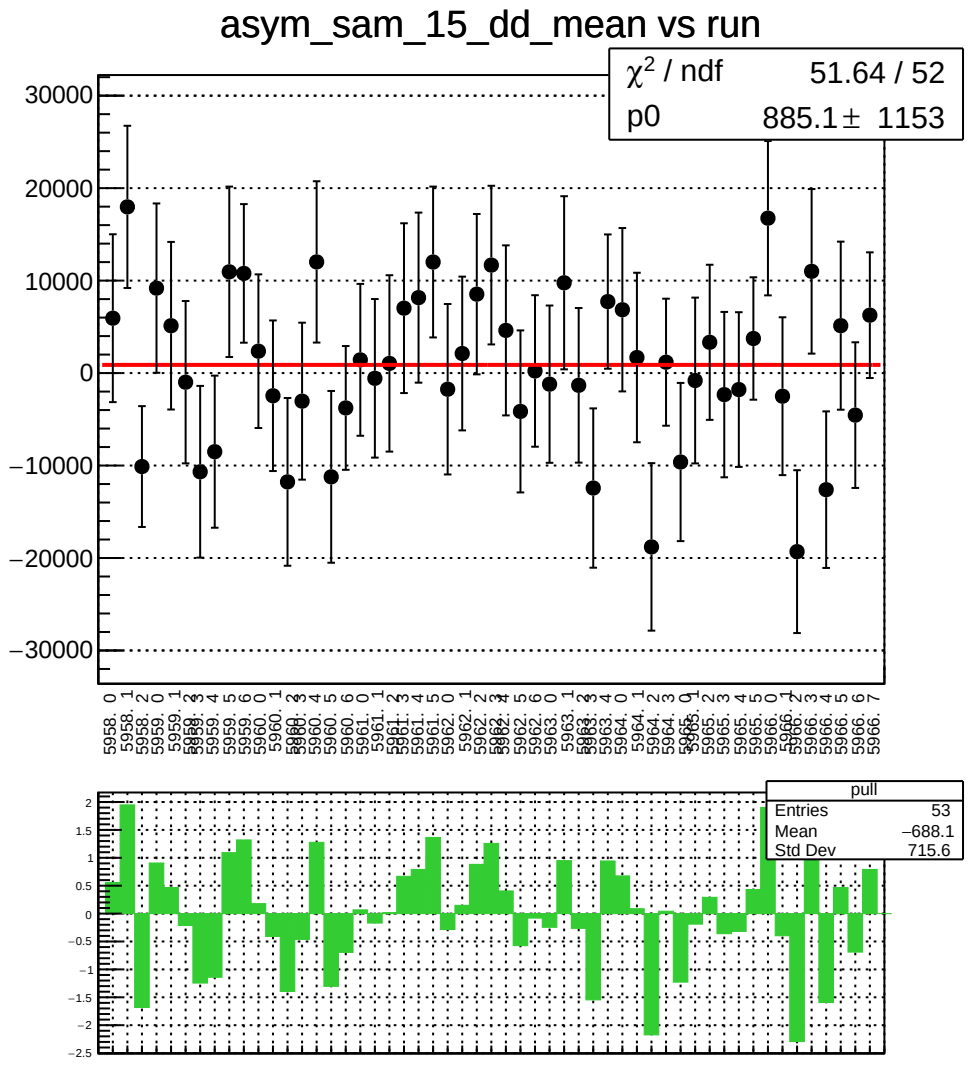

pull1D
Entries 53
Mean 0.002472
Std Dev 0.8576

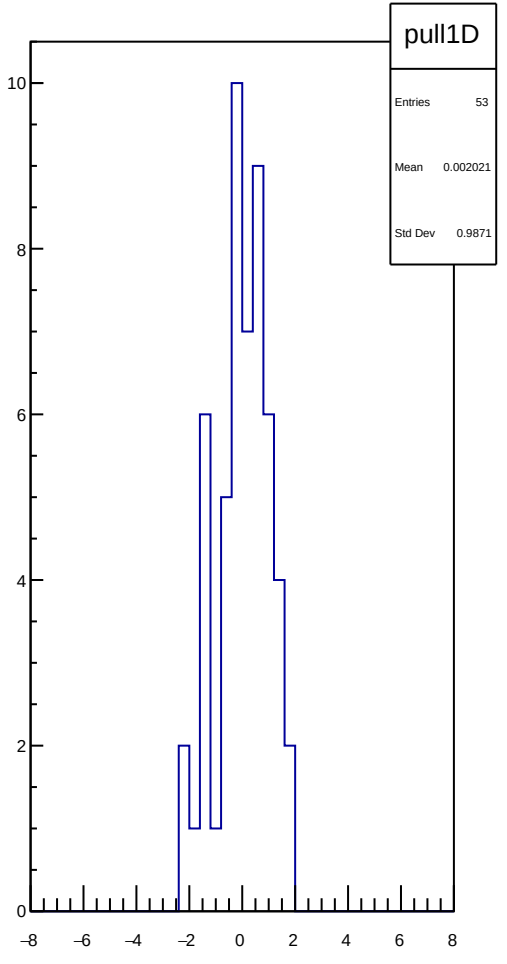

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1070 / 52
p0 111.7 ± 0.1096
150
145
140
135
130
125
120
115
110
105
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

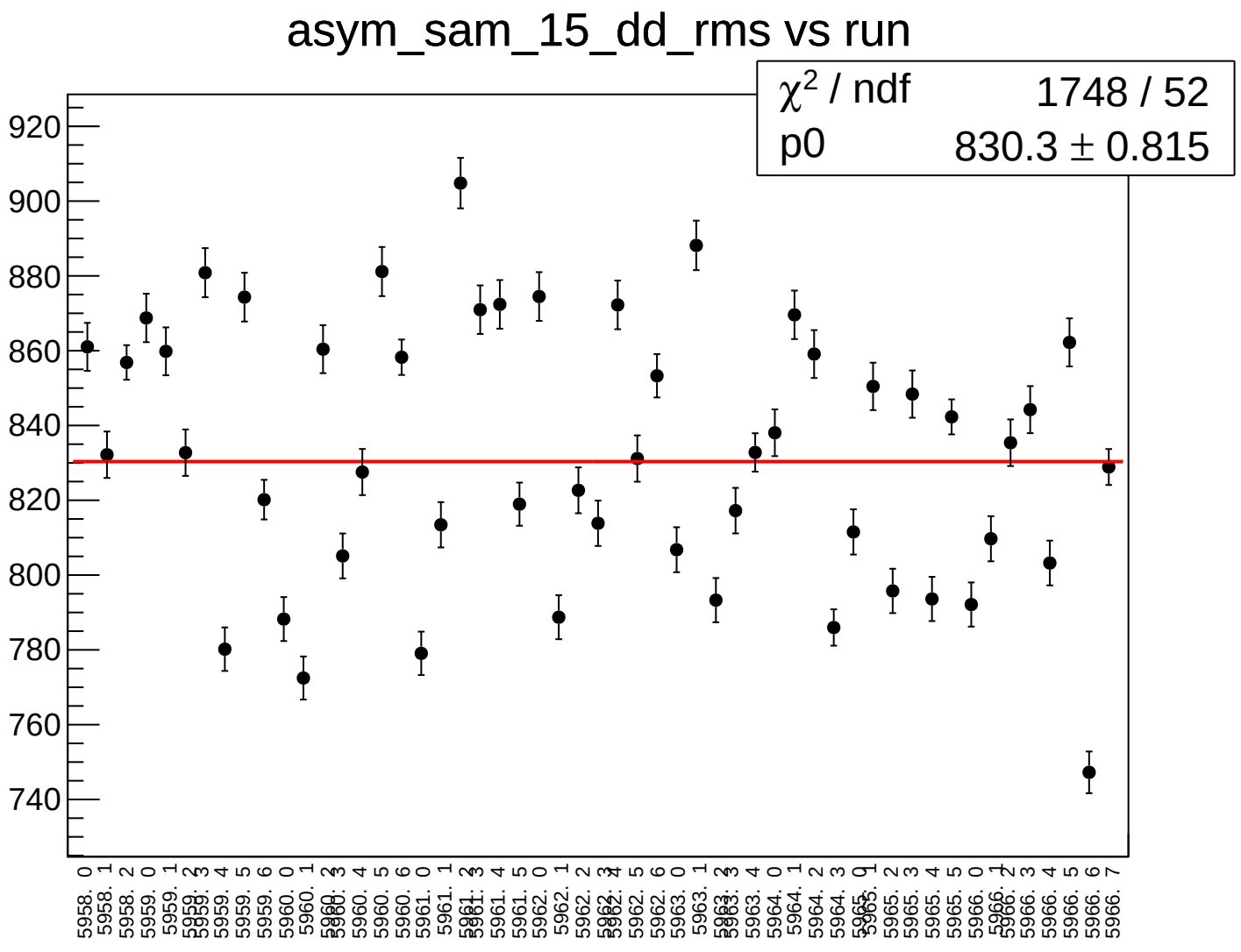

asym_sam_15_dd_correction_mean vs run
χ² / ndf 49.37 / 52
p0 −911.3 ± 1142
pull
Entries 53
Mean −727
Std Dev 752.5

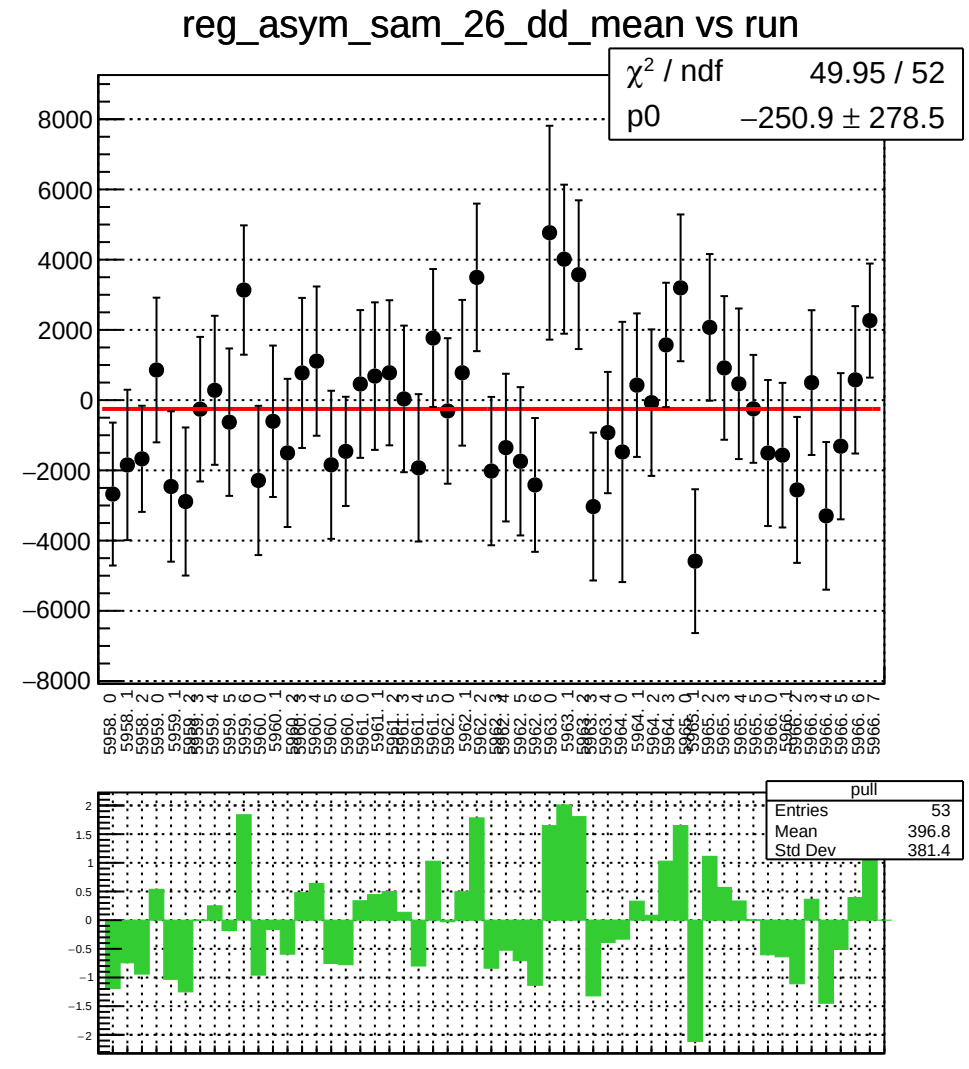

pull1D
Entries 53
Mean −0.002585
Std Dev 0.9651

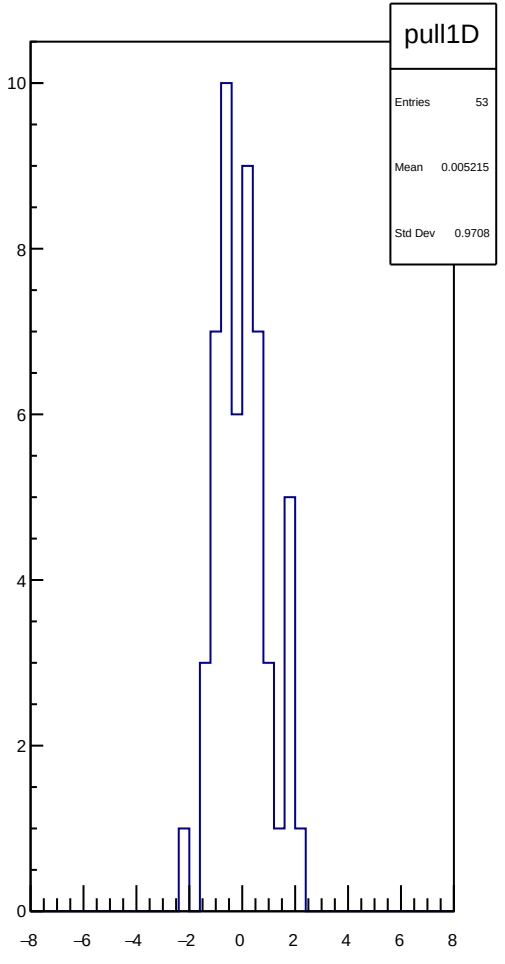

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1816 / 52
p0 822.7 ± 0.8075
920
900
880
860
840
820
800
780
760
740
720

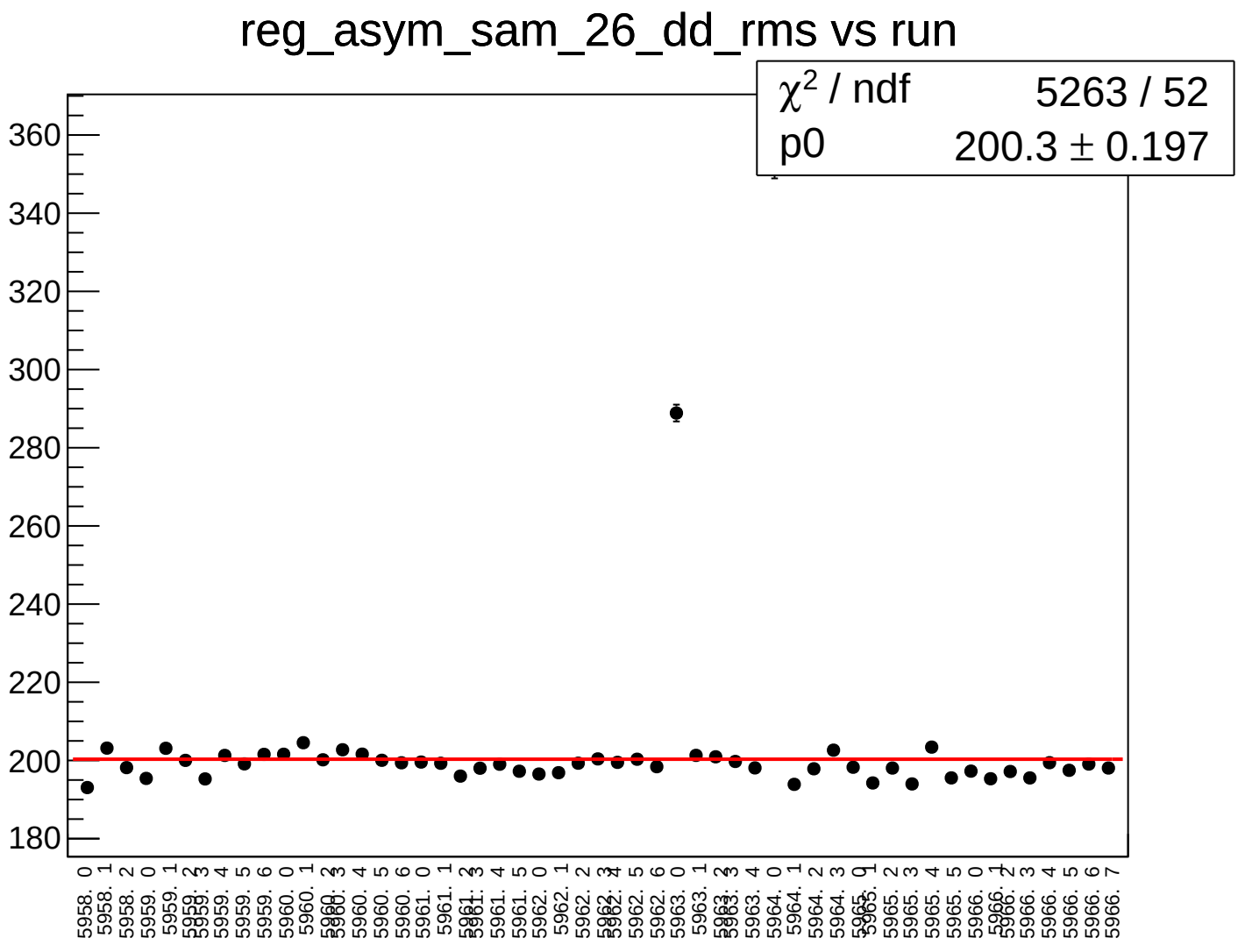

asym_sam_15_dd_mean vs run
χ² / ndf 51.64 / 52
p0 885.1 ± 1153
pull
Entries 53
Mean −688.1
Std Dev 715.6


pull1D
Entries 53
Mean 0.002021
Std Dev 0.9871


asym_sam_15_dd_rms vs run
χ² / ndf 1748 / 52
p0 830.3 ± 0.815
920
900
880
860
840
820
800
780
760
740


reg_asym_sam_26_dd_mean vs run
χ² / ndf 49.95 / 52
p0 −250.9 ± 278.5
pull
Entries 53
Mean 396.8
Std Dev 381.4


pull1D
Entries 53
Mean 0.005215
Std Dev 0.9708


reg_asym_sam_26_dd_rms vs run
χ² / ndf 5263 / 52
p0 200.3 ± 0.197
360
340
320
300
280
260
240
220
200
180
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
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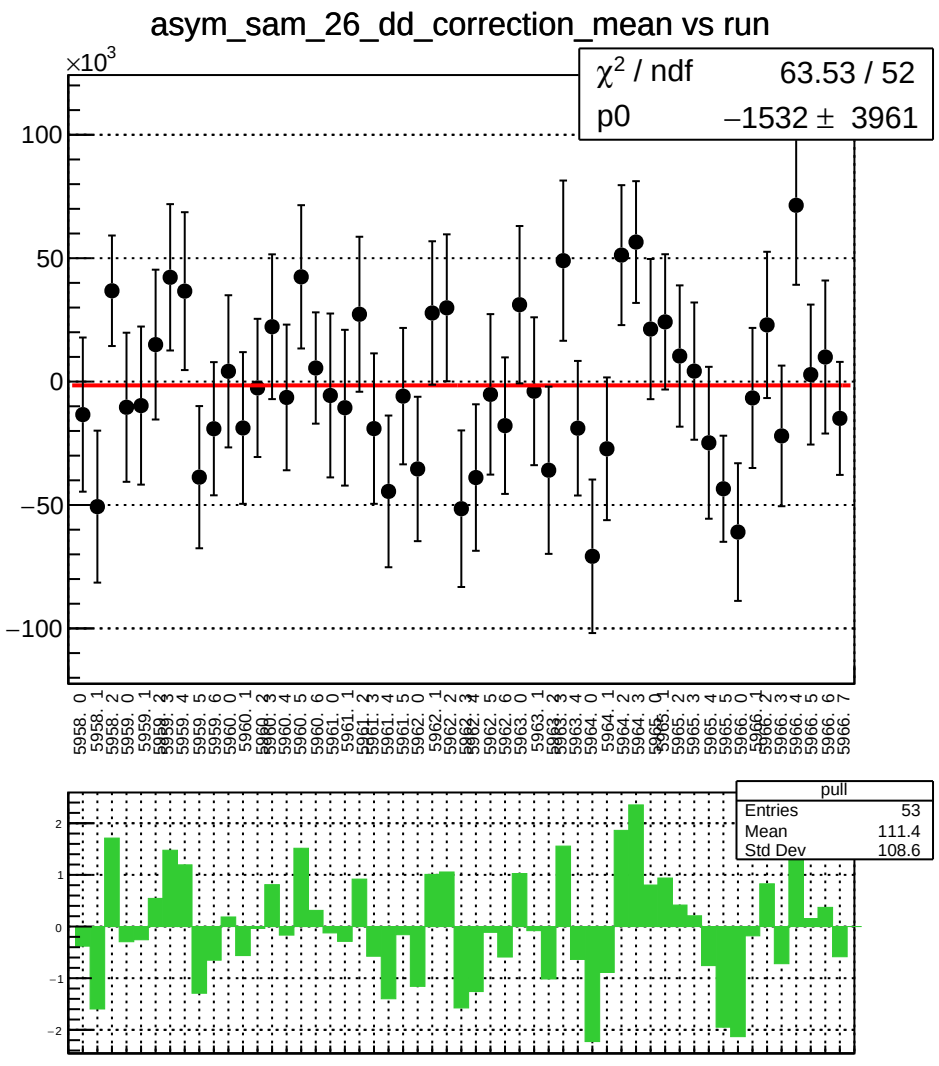
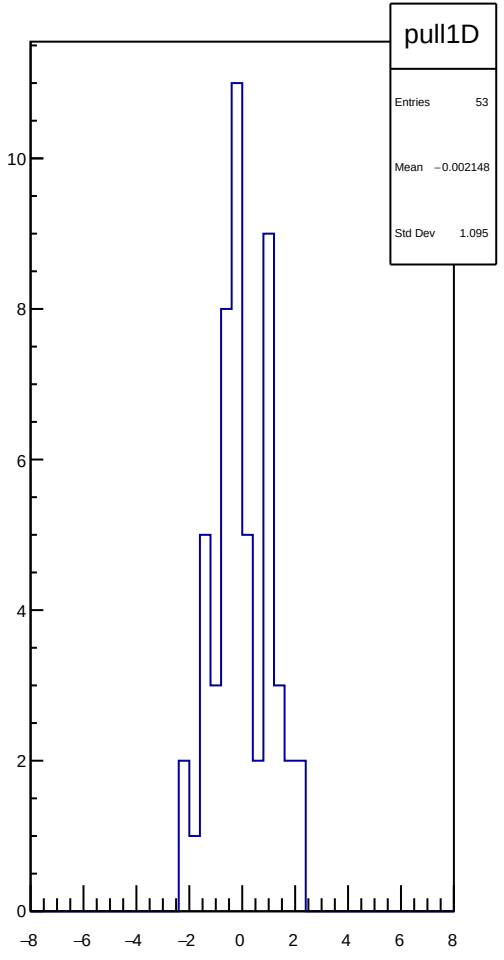
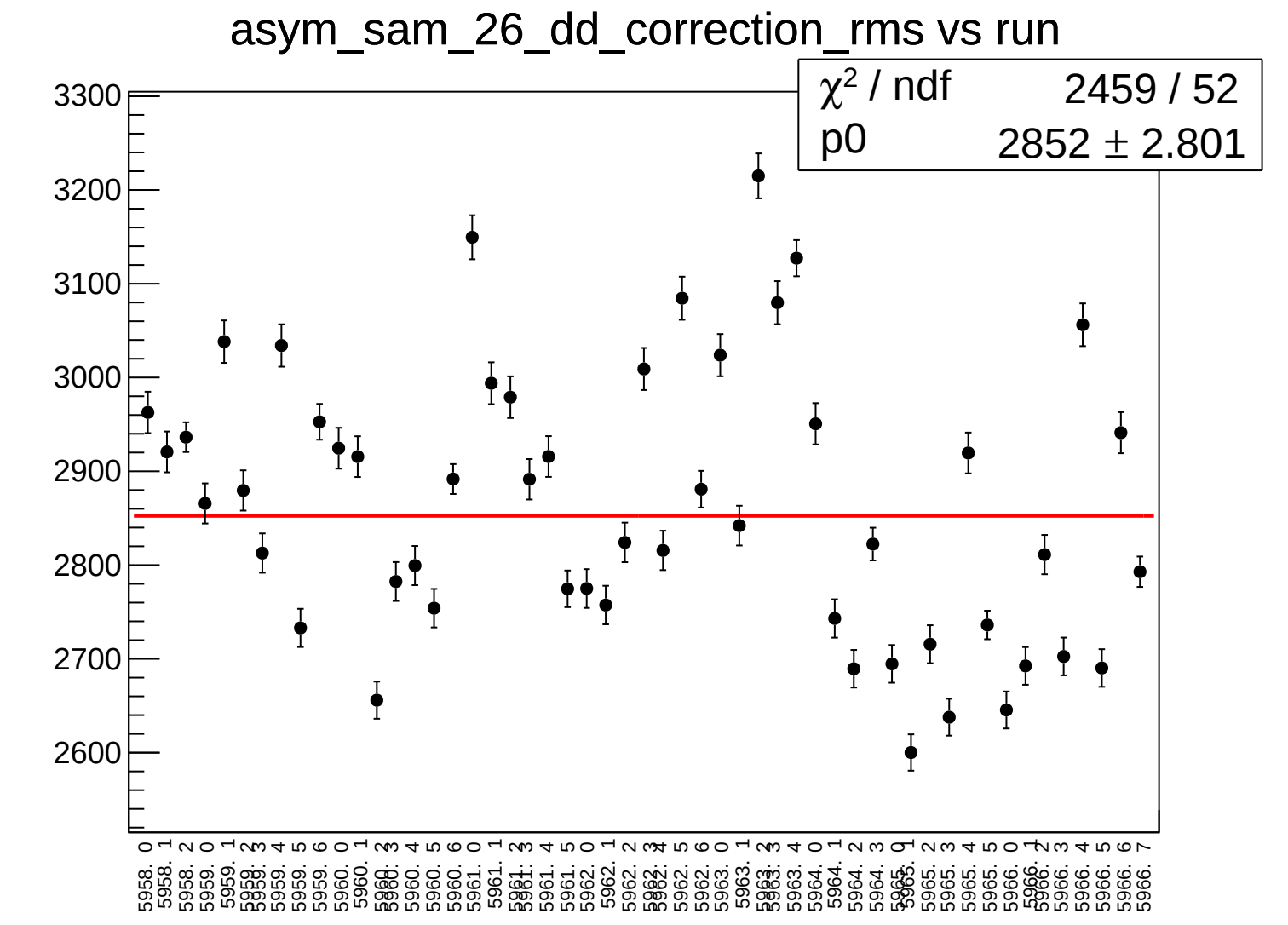
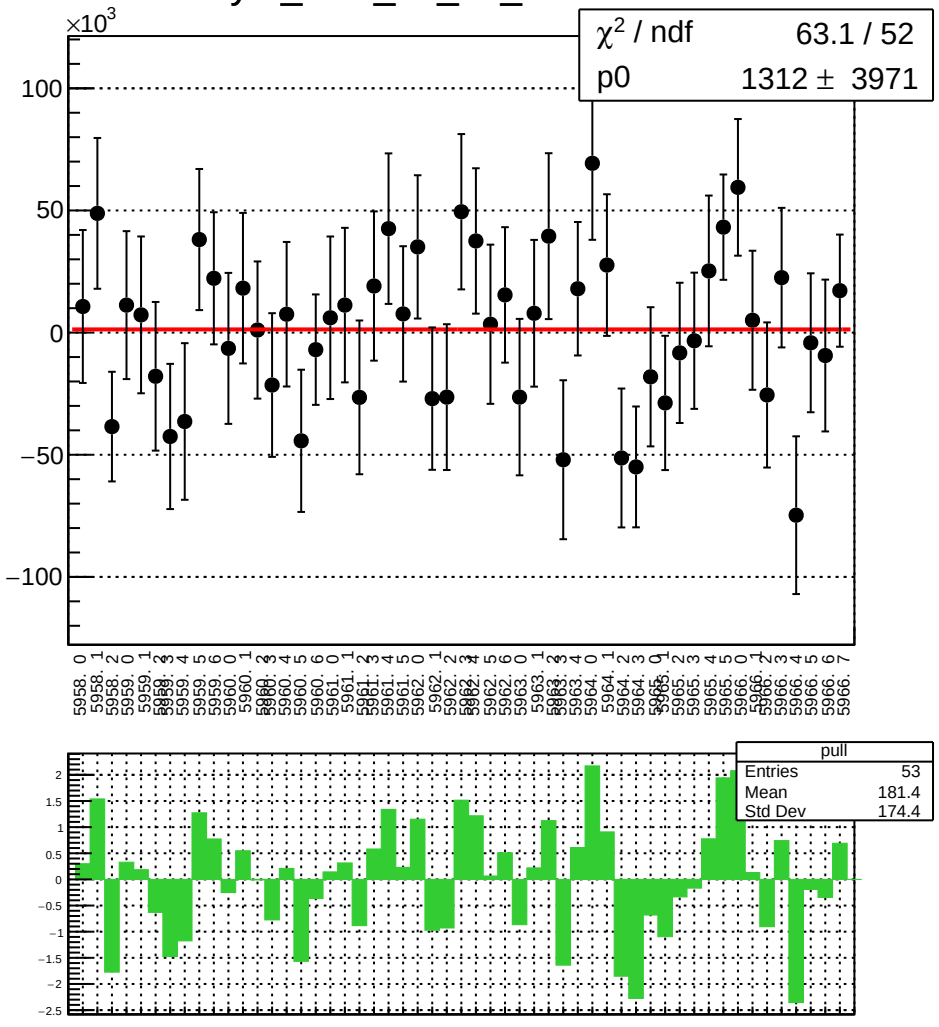
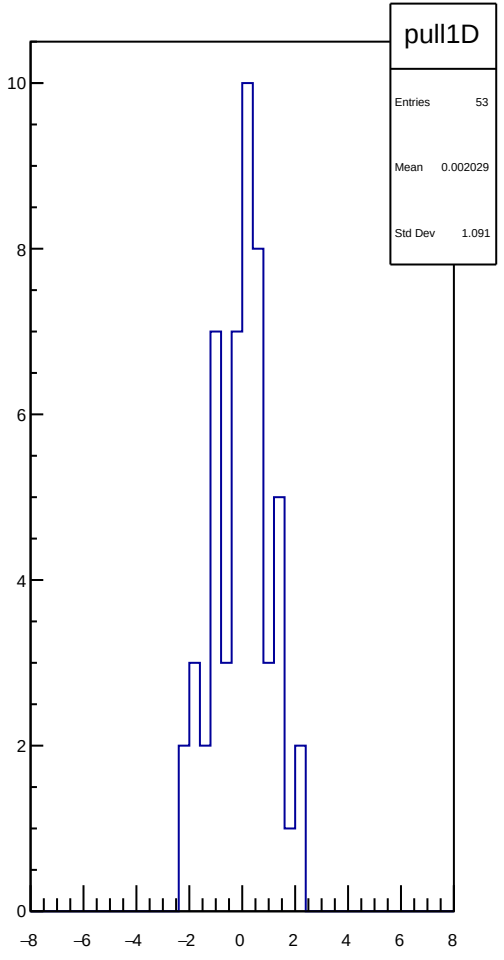
5966. 4
5966. 5
5966. 6
5966. 7

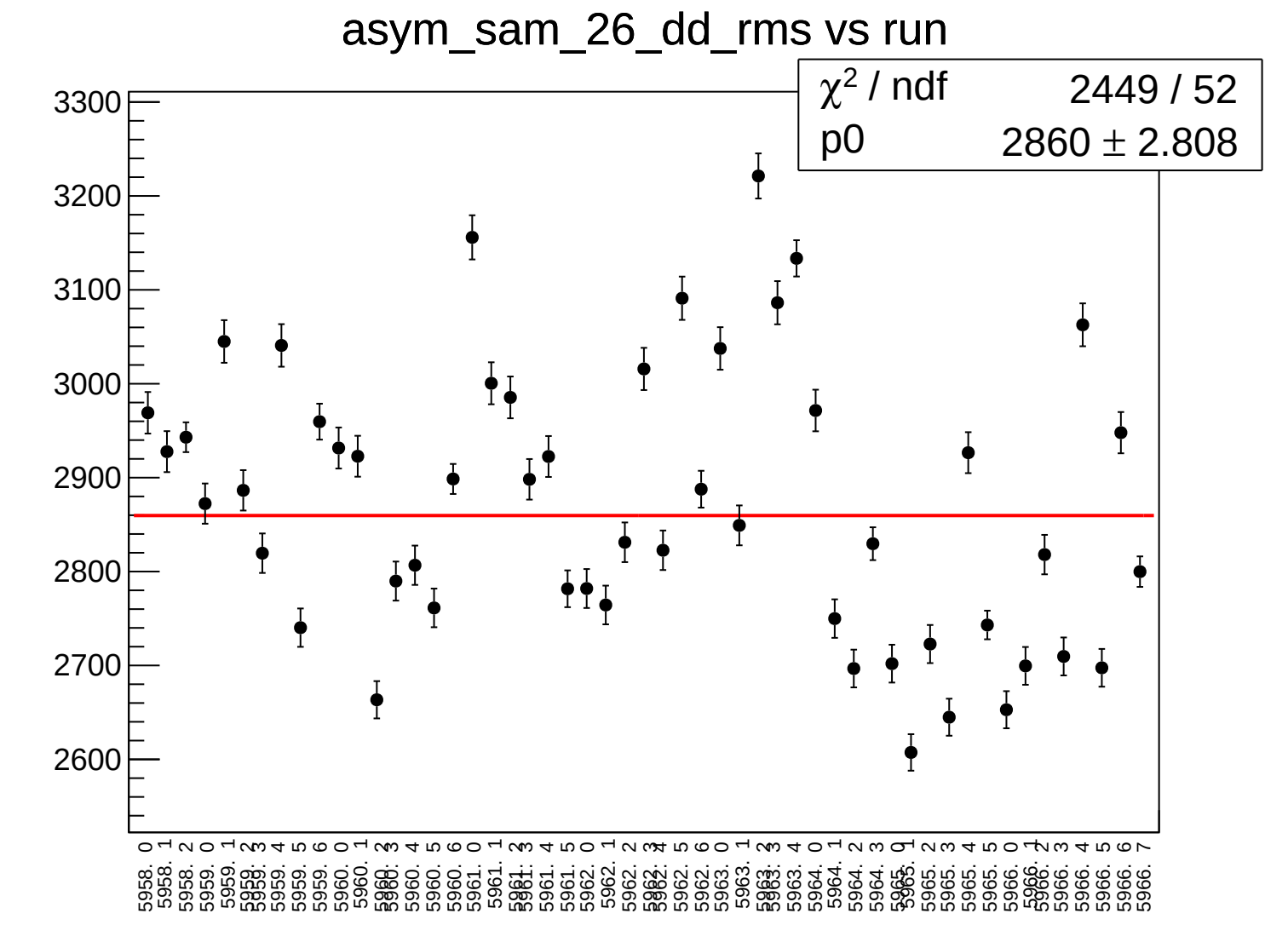

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 63.53 / 52
p0 −1532 ± 3961
100
50
0
−50
−100
pull
Entries 53
Mean 111.4
Std Dev 108.6
2
1
0
−1
−2


pull1D
Entries 53
Mean −0.002148
Std Dev 1.095
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 2459 / 52
p0 2852 ± 2.801
3300
3200
3100
3000
2900
2800
2700
2600


asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 63.1 / 52
p0 1312 ± 3971
pull
Entries 53
Mean 181.4
Std Dev 174.4


pull1D
Entries 53
Mean 0.002029
Std Dev 1.091


asym_sam_26_dd_rms vs run
χ² / ndf 2449 / 52
p0 2860 ± 2.808
3300
3200
3100
3000
2900
2800
2700
2600
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
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5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
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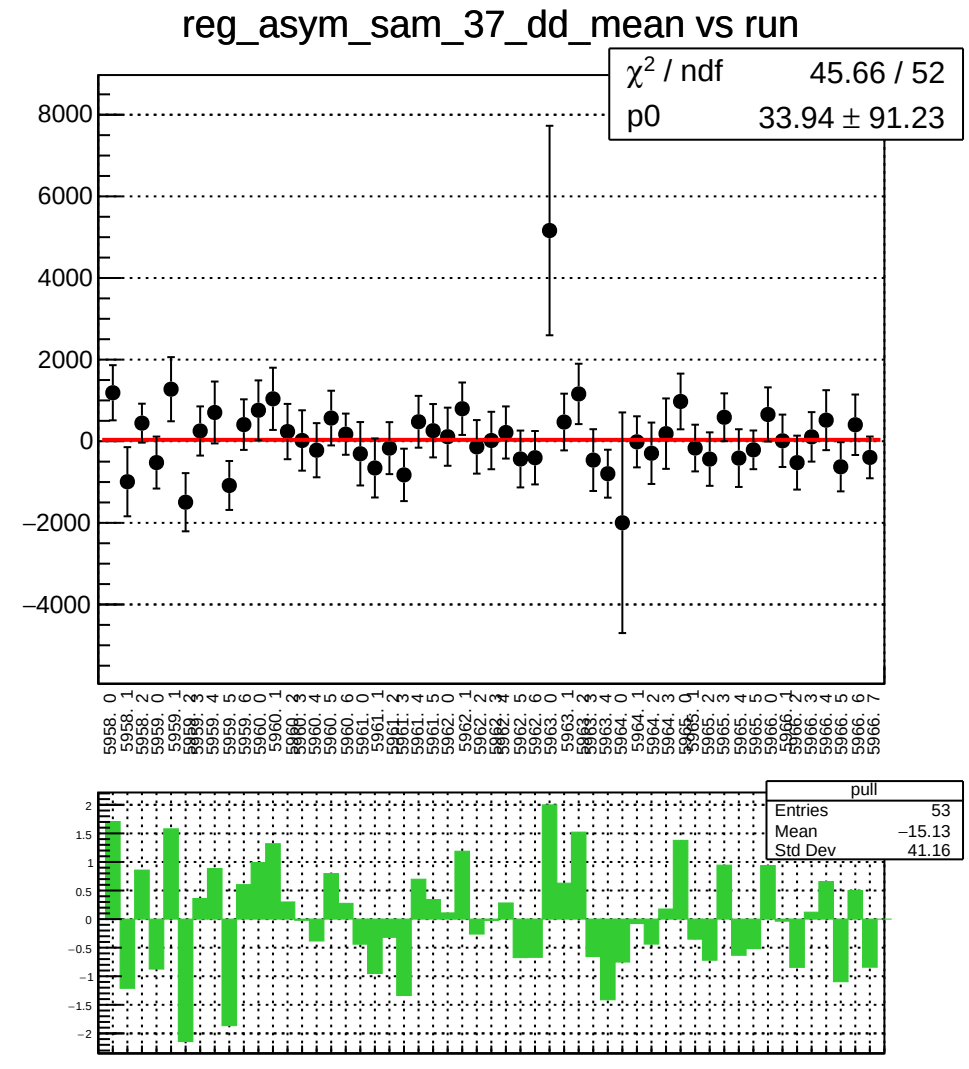
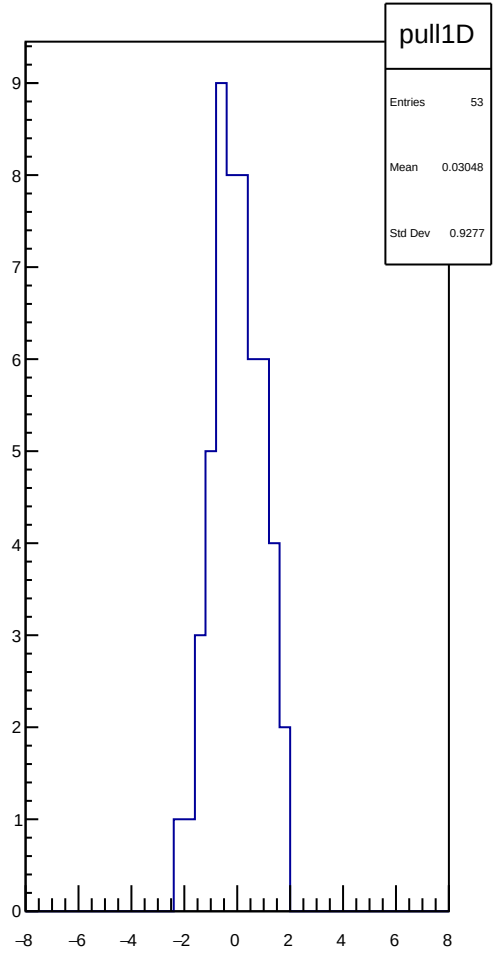
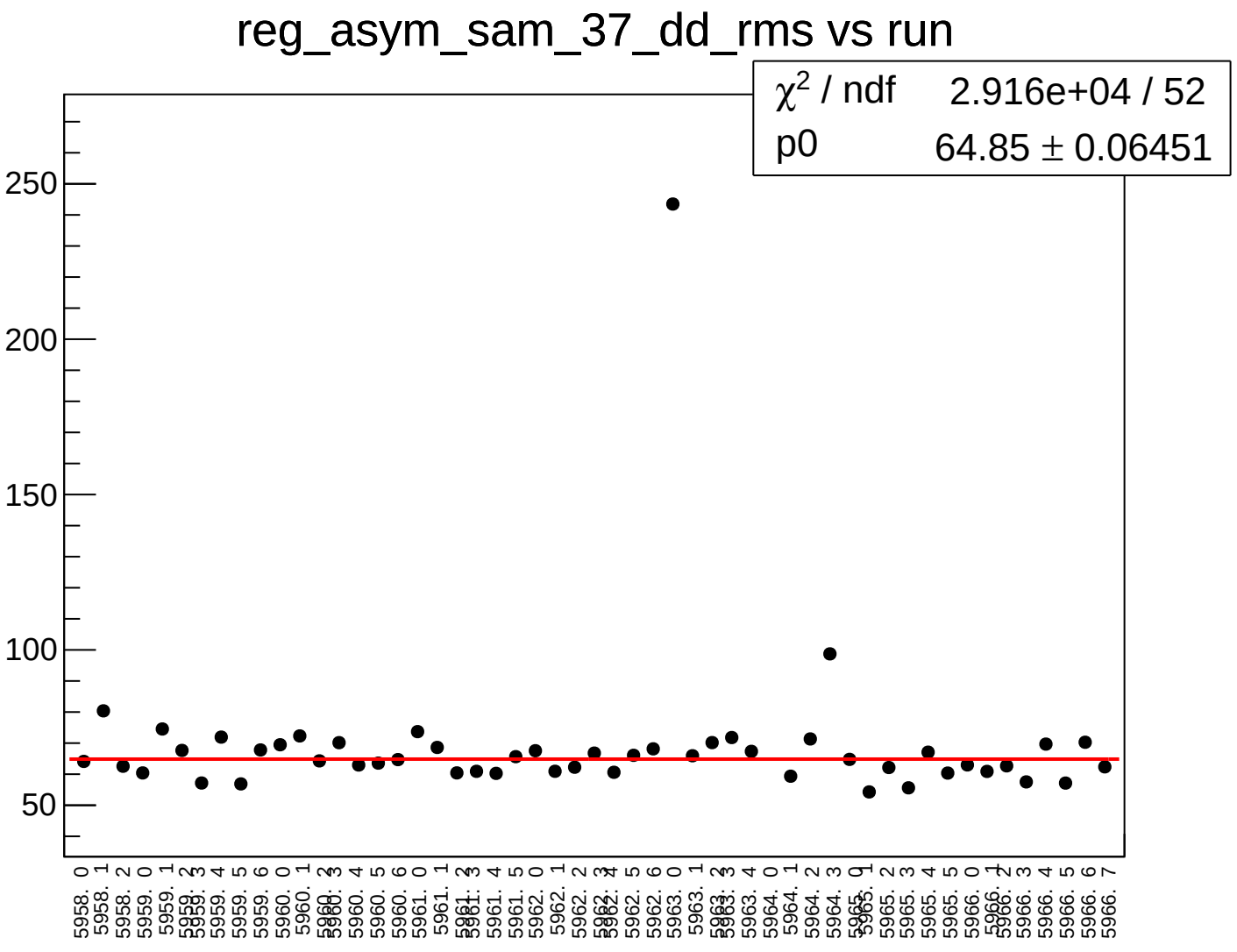
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7


reg_asym_sam_37_dd_mean vs run
χ² / ndf 45.66 / 52
p0 33.94 ± 91.23
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 53
Mean −15.13
Std Dev 41.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 53
Mean 0.03048
Std Dev 0.9277
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.916e+04 / 52
p0 64.85 ± 0.06451
250
200
150
100
50
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
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5965. 5
5966. 0
5966. 2
5966. 3
5966. 4
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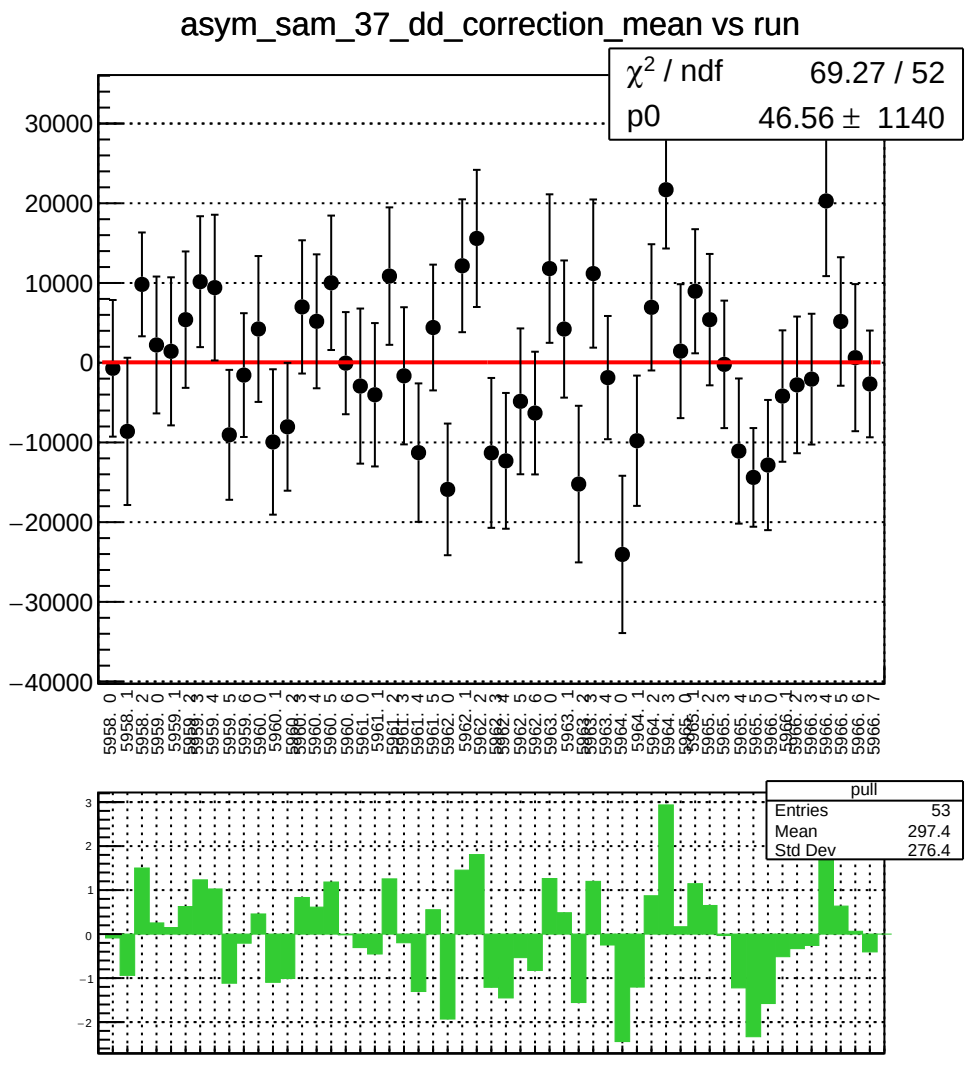
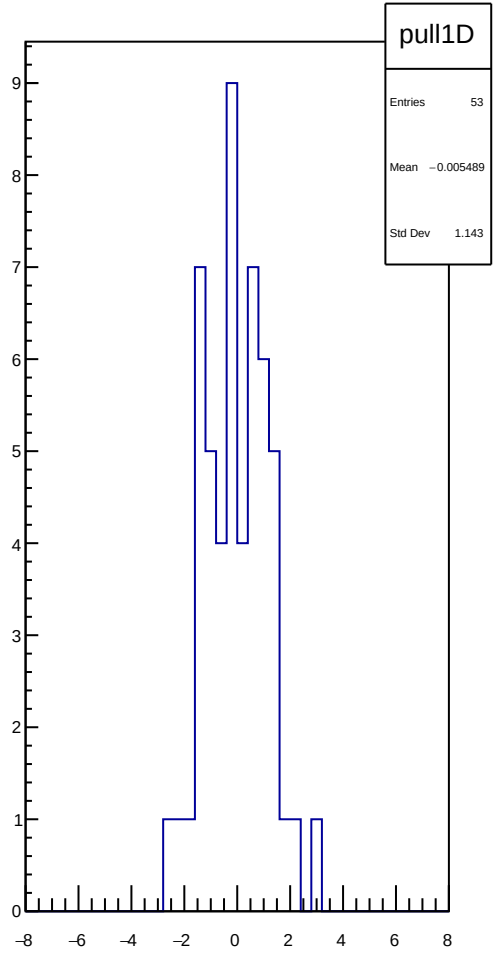
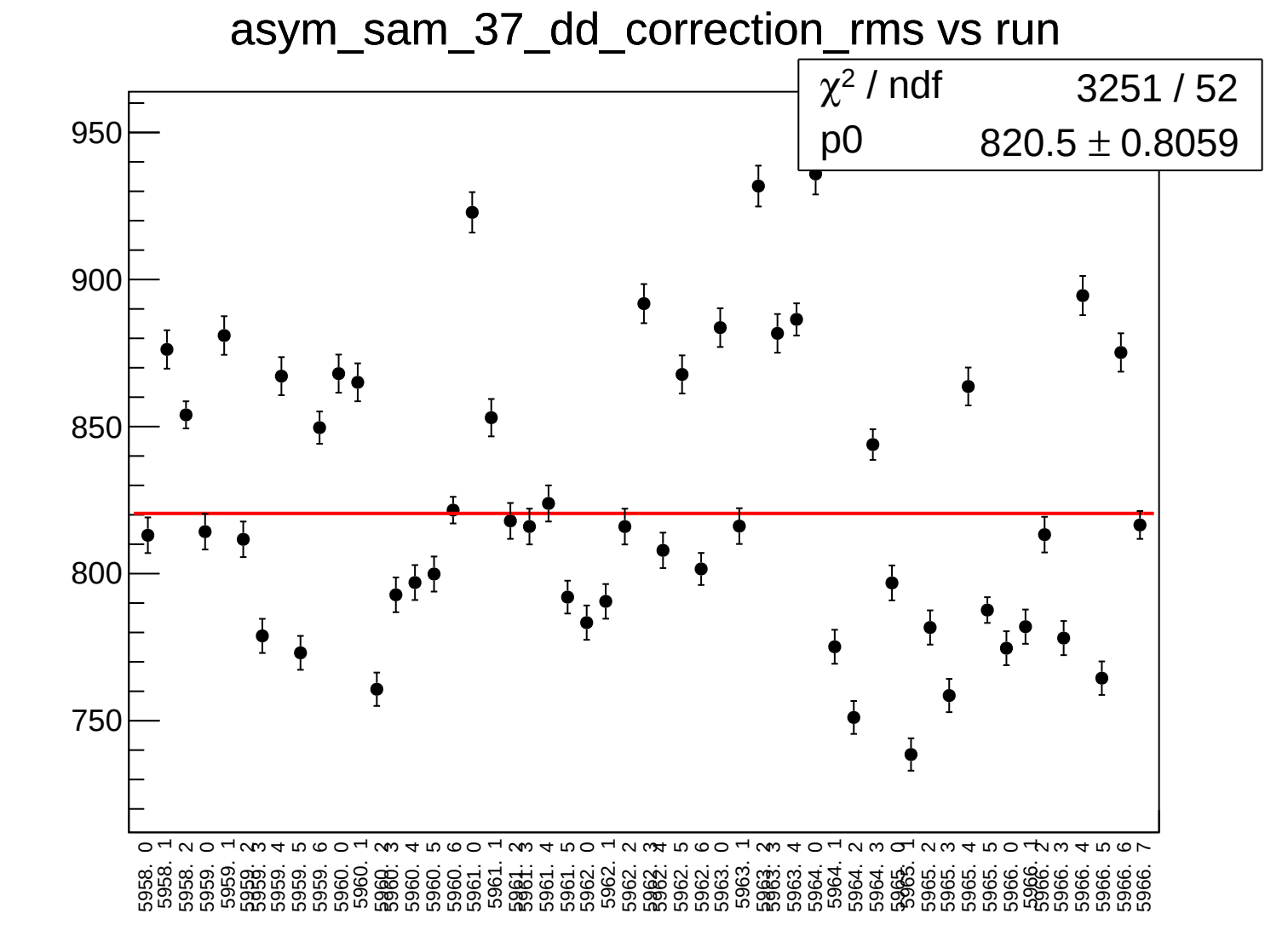
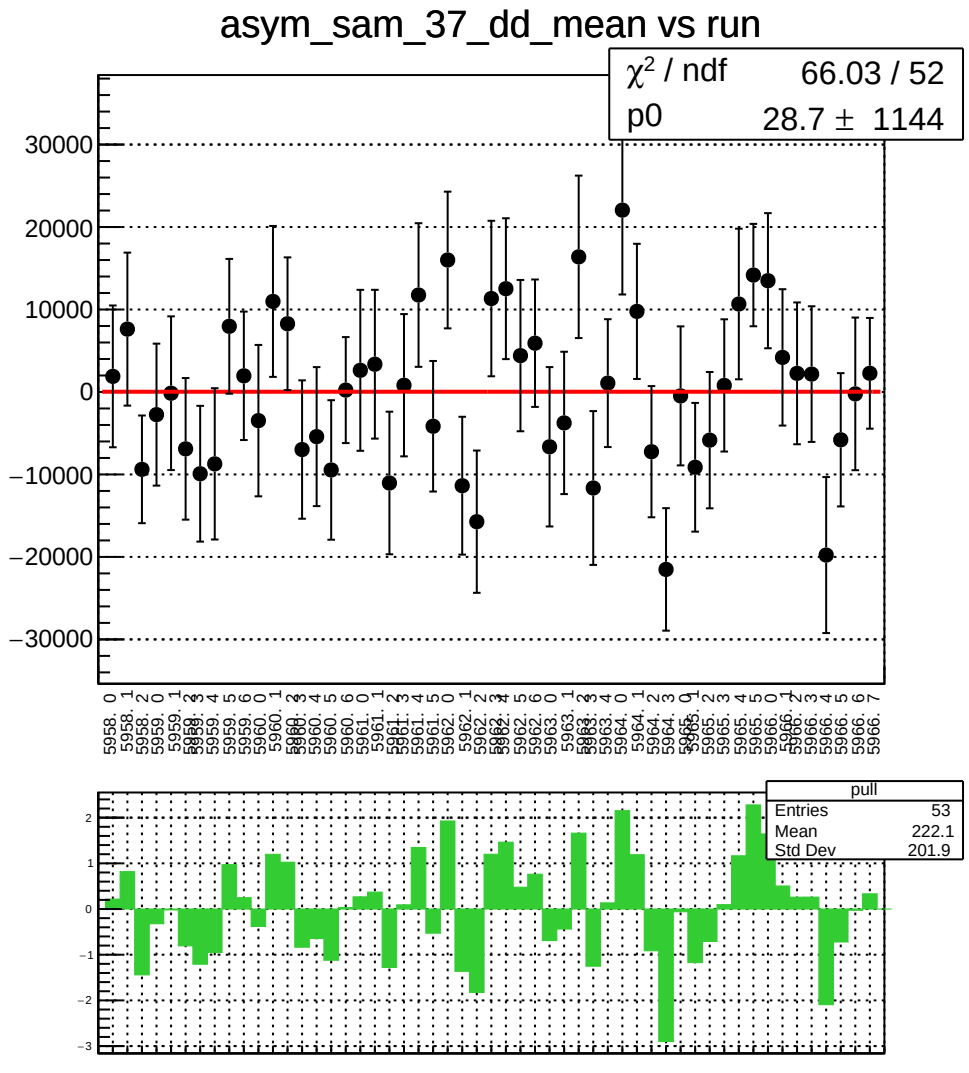
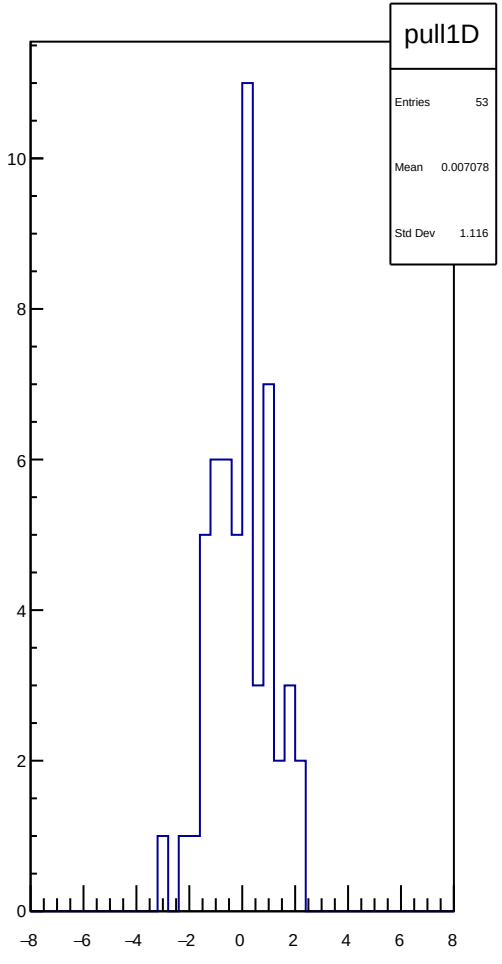
5966. 7

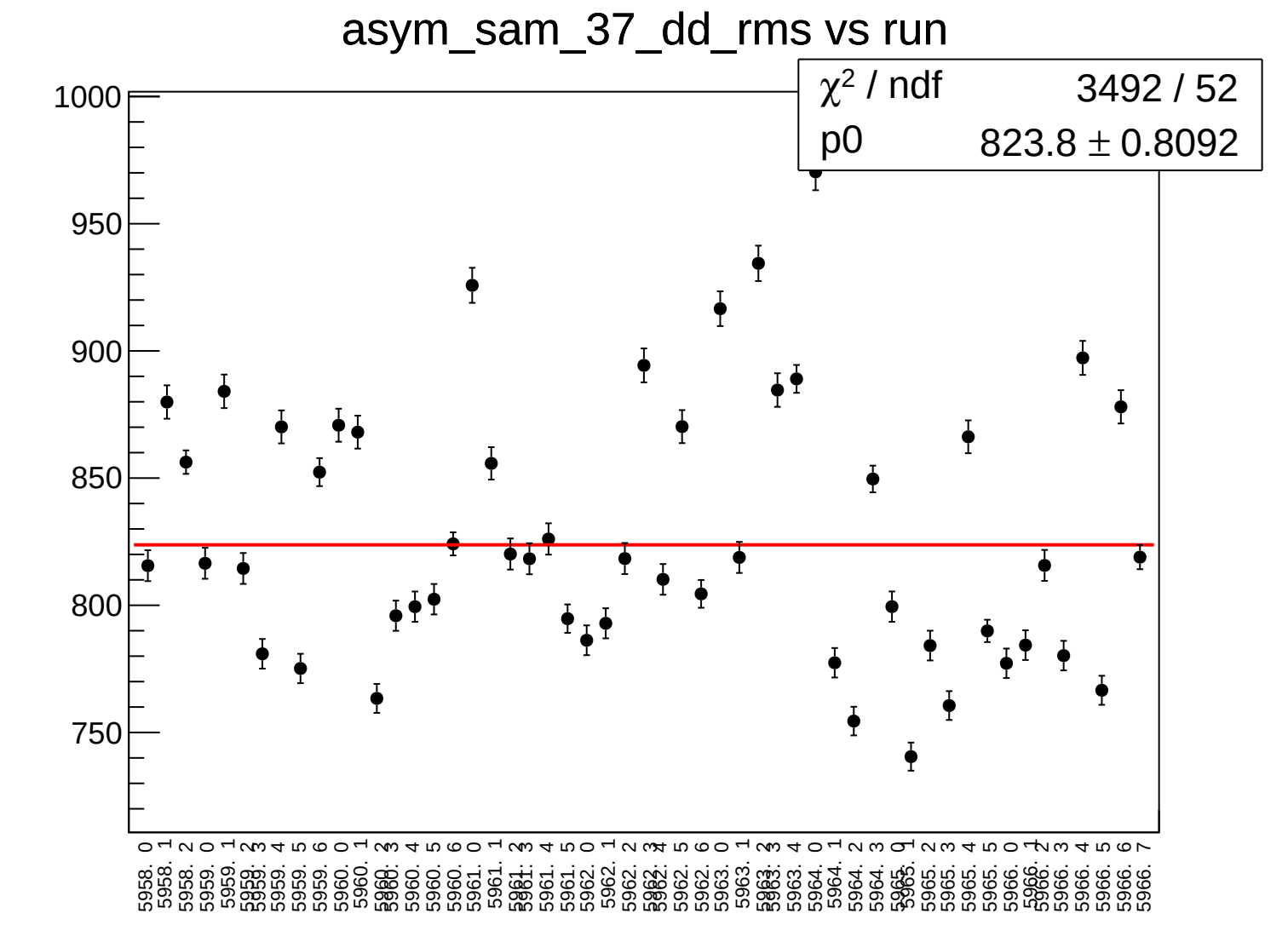

asym_sam_37_dd_correction_mean vs run
χ² / ndf 69.27 / 52
p0 46.56 ± 1140
pull
Entries 53
Mean 297.4
Std Dev 276.4

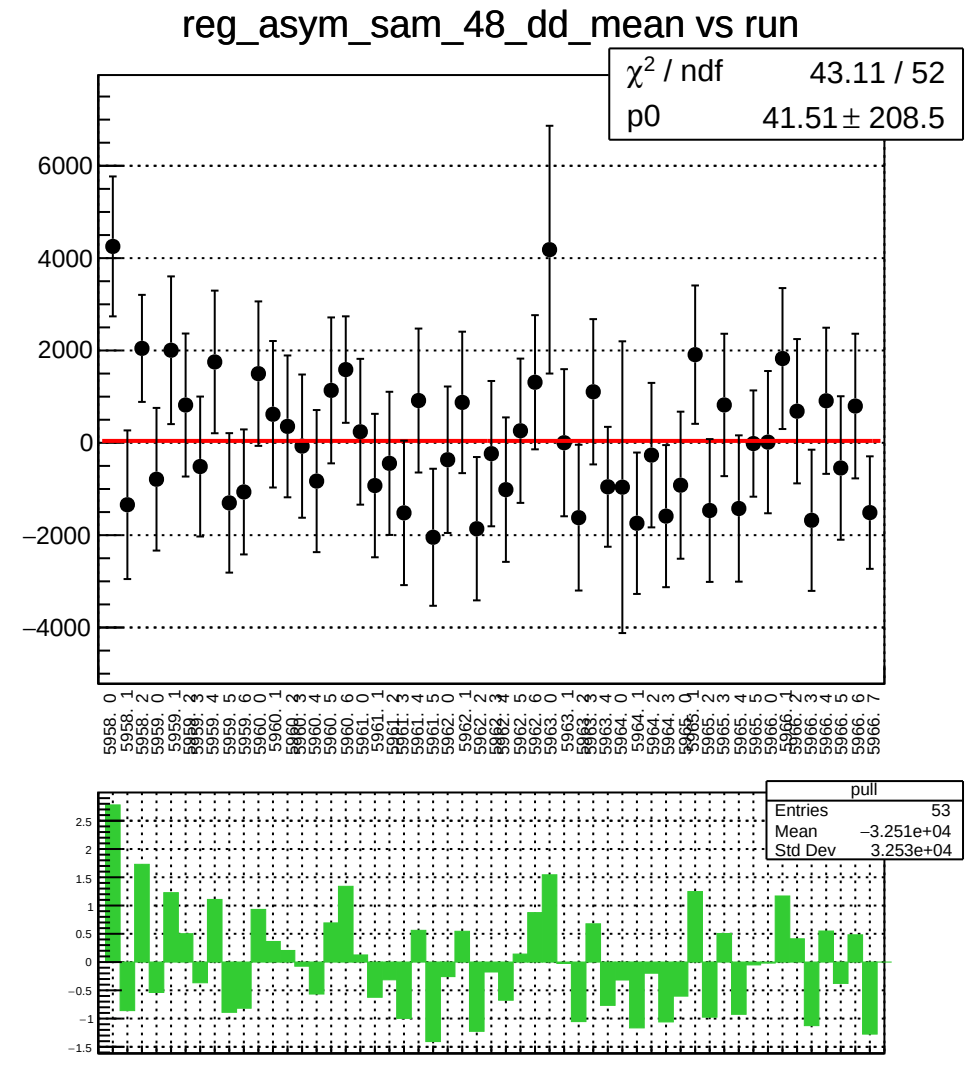

pull1D
Entries 53
Mean −0.005489
Std Dev 1.143

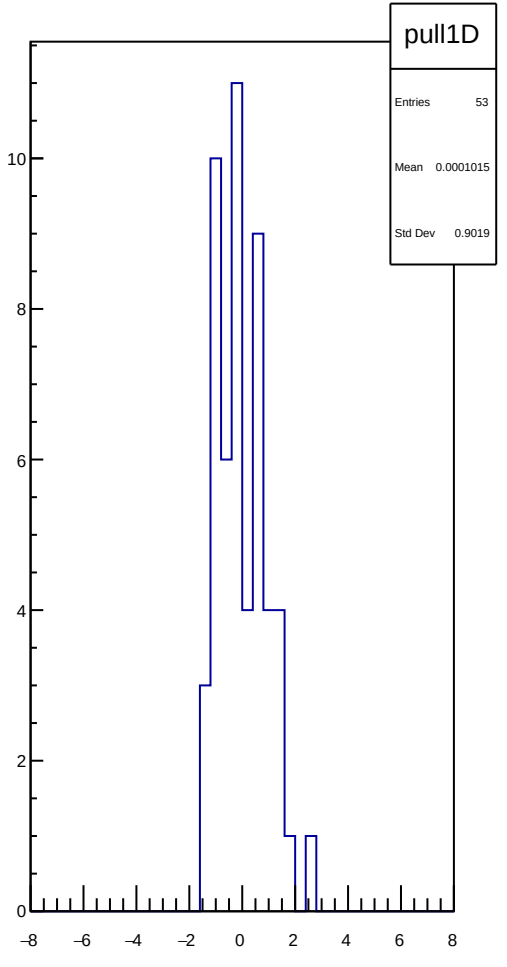

asym_sam_37_dd_correction_rms vs run
χ² / ndf 3251 / 52
p0 820.5 ± 0.8059
950
900
850
800
750

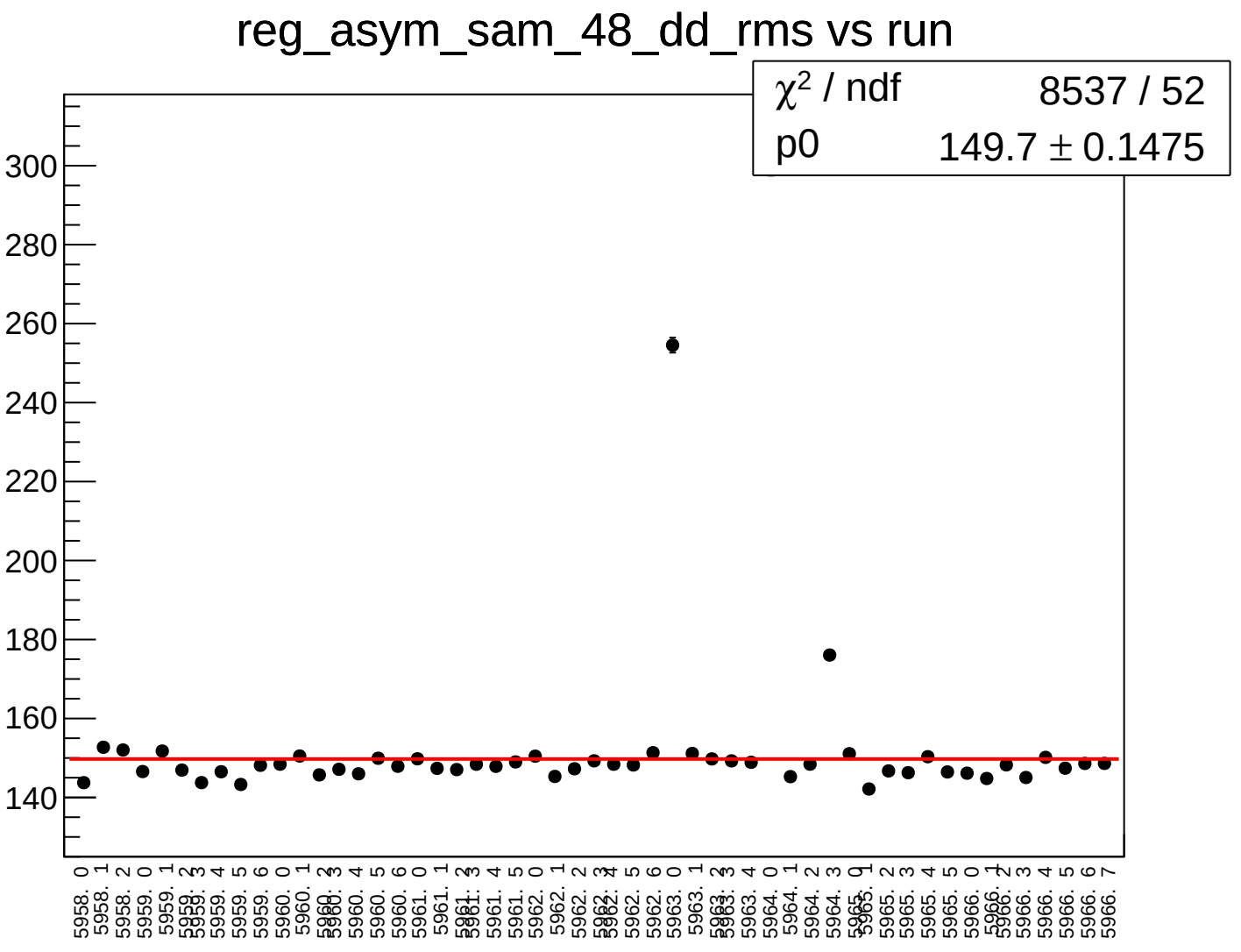

asym_sam_37_dd_mean vs run
χ² / ndf 66.03 / 52
p0 28.7 ± 1144
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 53
Mean 222.1
Std Dev 201.9
2
1
0
−1
−2
−3

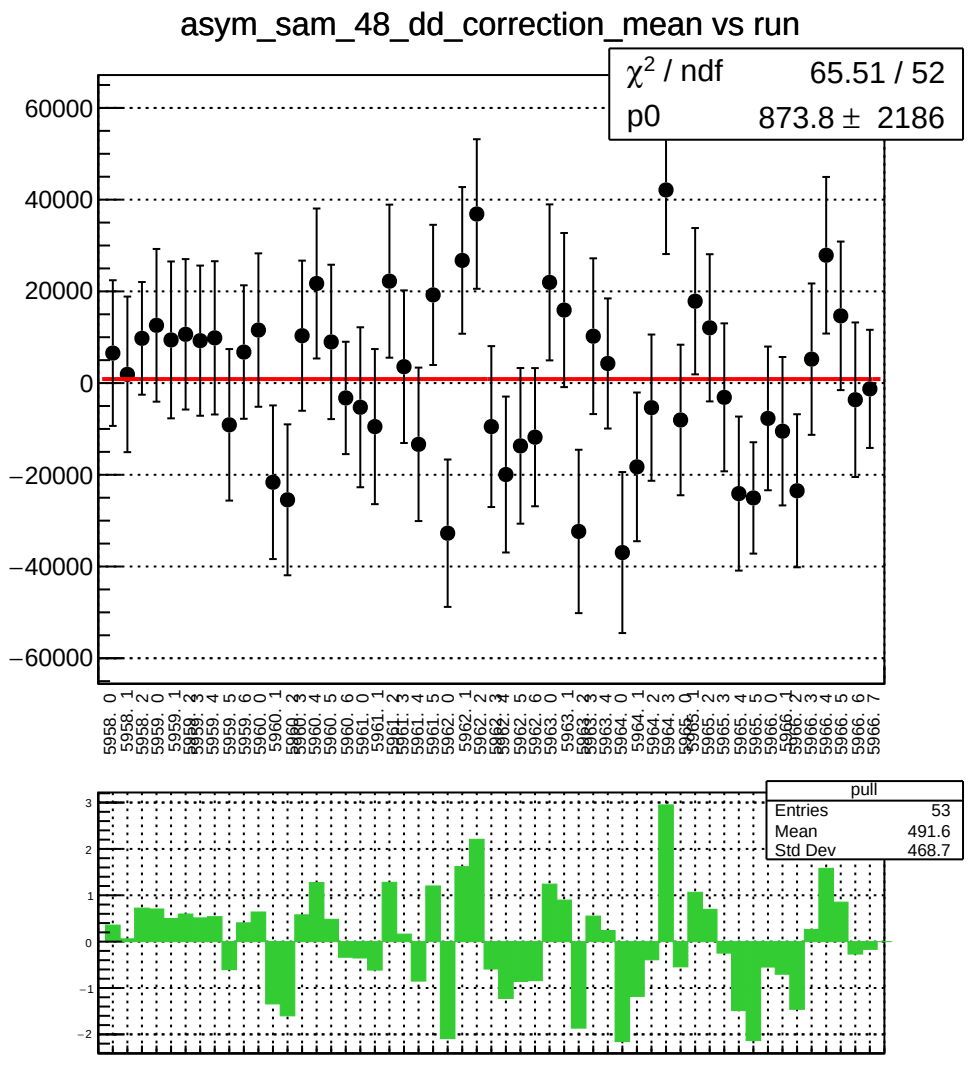

pull1D
Entries 53
Mean 0.007078
Std Dev 1.116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

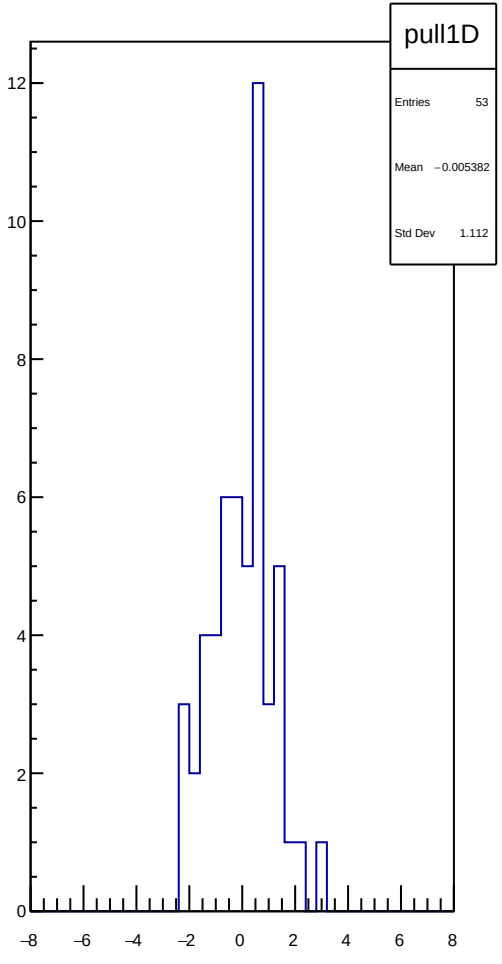

asym_sam_37_dd_rms vs run
χ² / ndf 3492 / 52
p0 823.8 ± 0.8092
1000
950
900
850
800
750

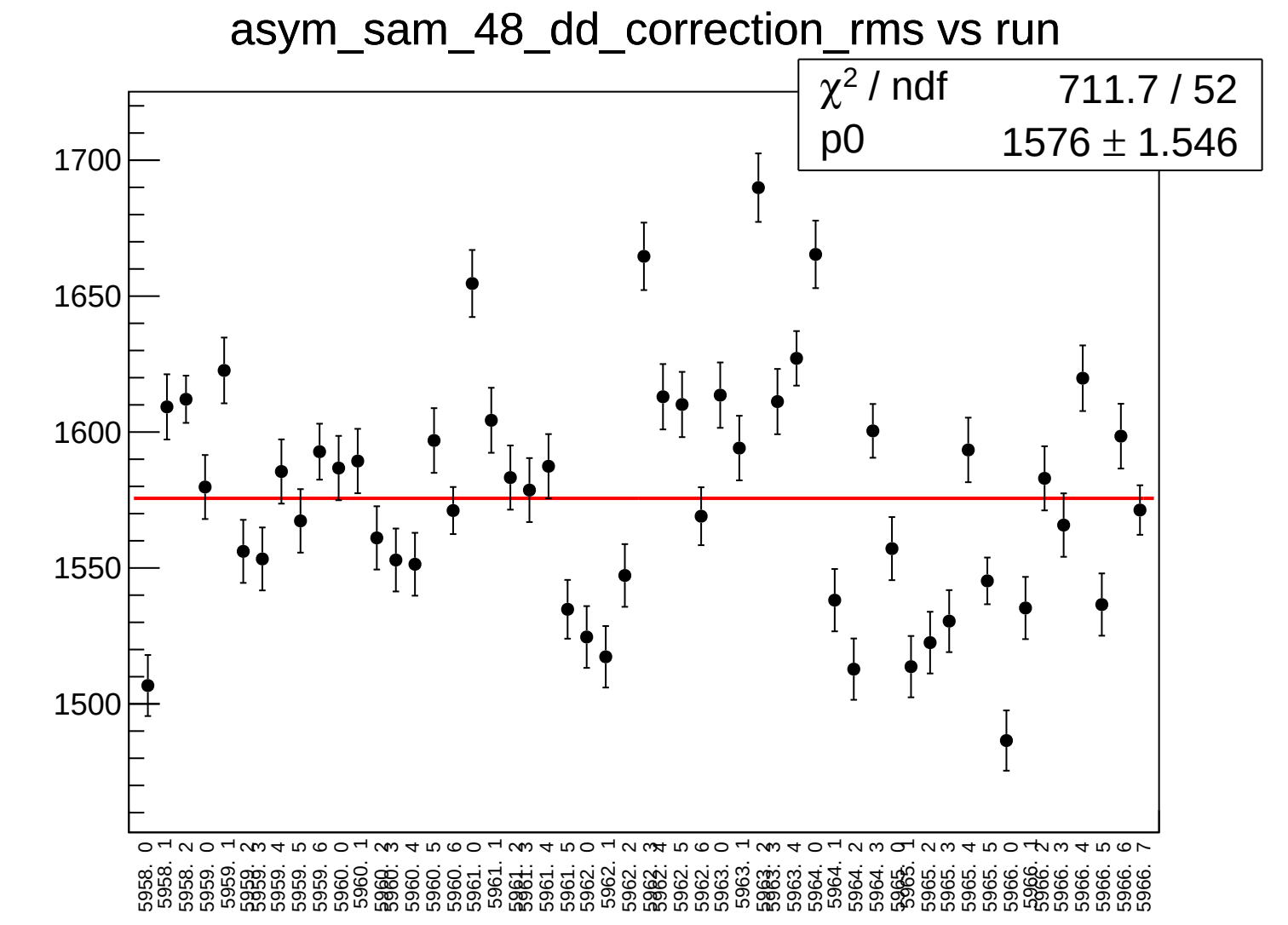

reg_asym_sam_48_dd_mean vs run
χ² / ndf 43.11 / 52
p0 41.51 ± 208.5
6000
4000
2000
0
−2000
−4000
pull
Entries 53
Mean −3.251e+04
Std Dev 3.253e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

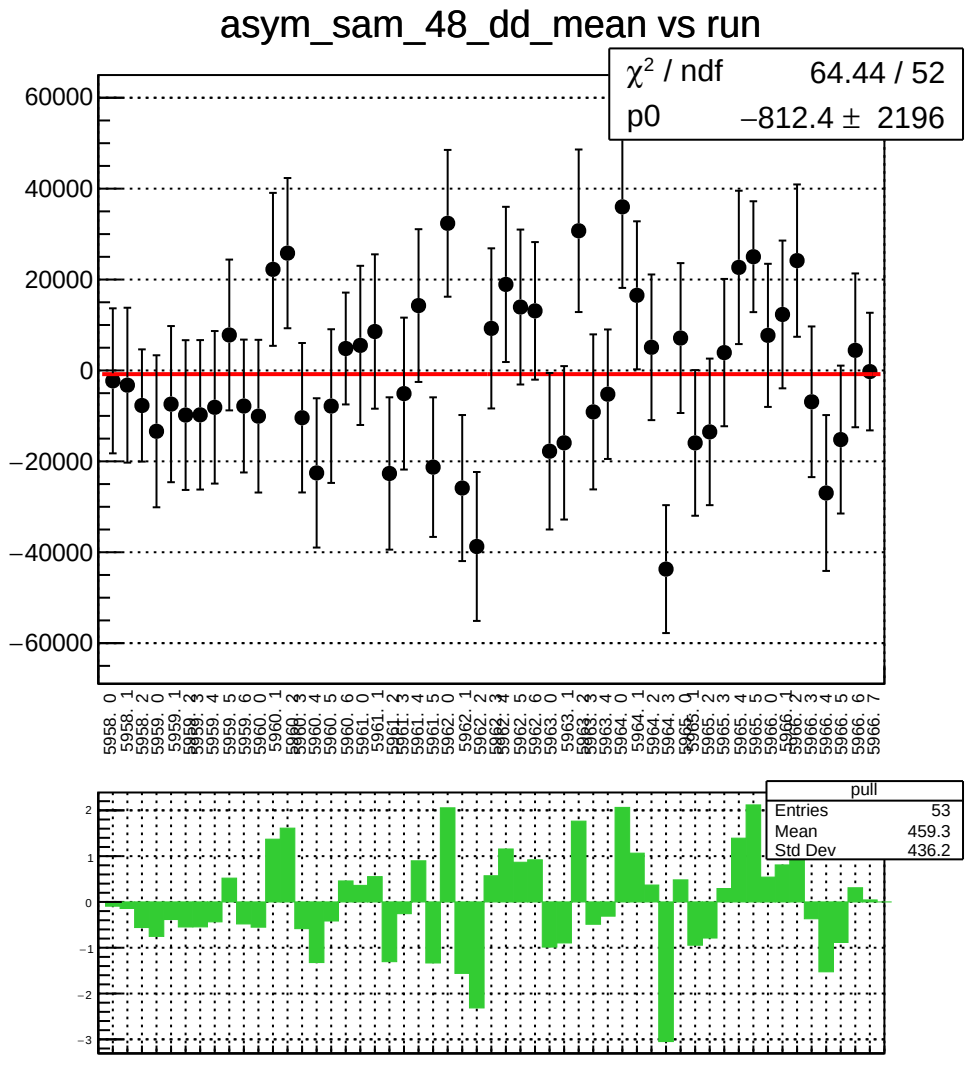

pull1D
Entries 53
Mean 0.0001015
Std Dev 0.9019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

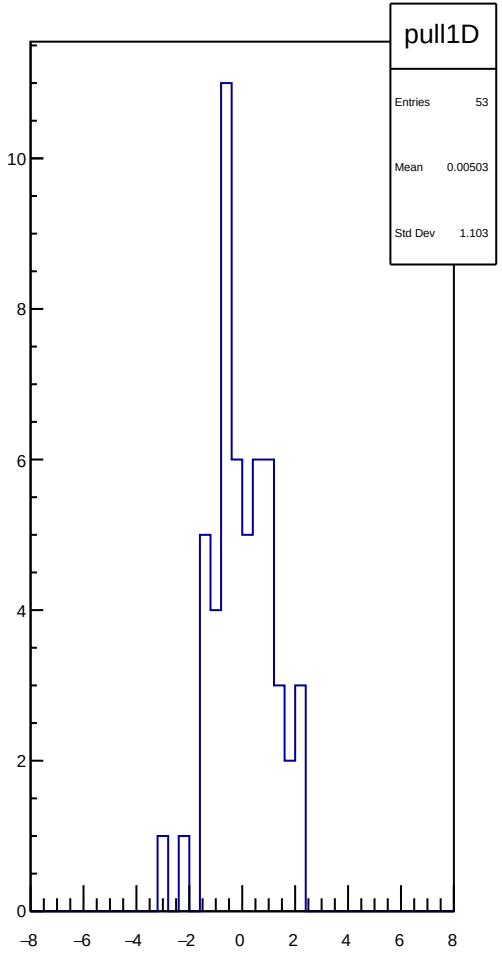

reg_asym_sam_48_dd_rms vs run
χ² / ndf 8537 / 52
p0 149.7 ± 0.1475
300
280
260
240
220
200
180
160
140

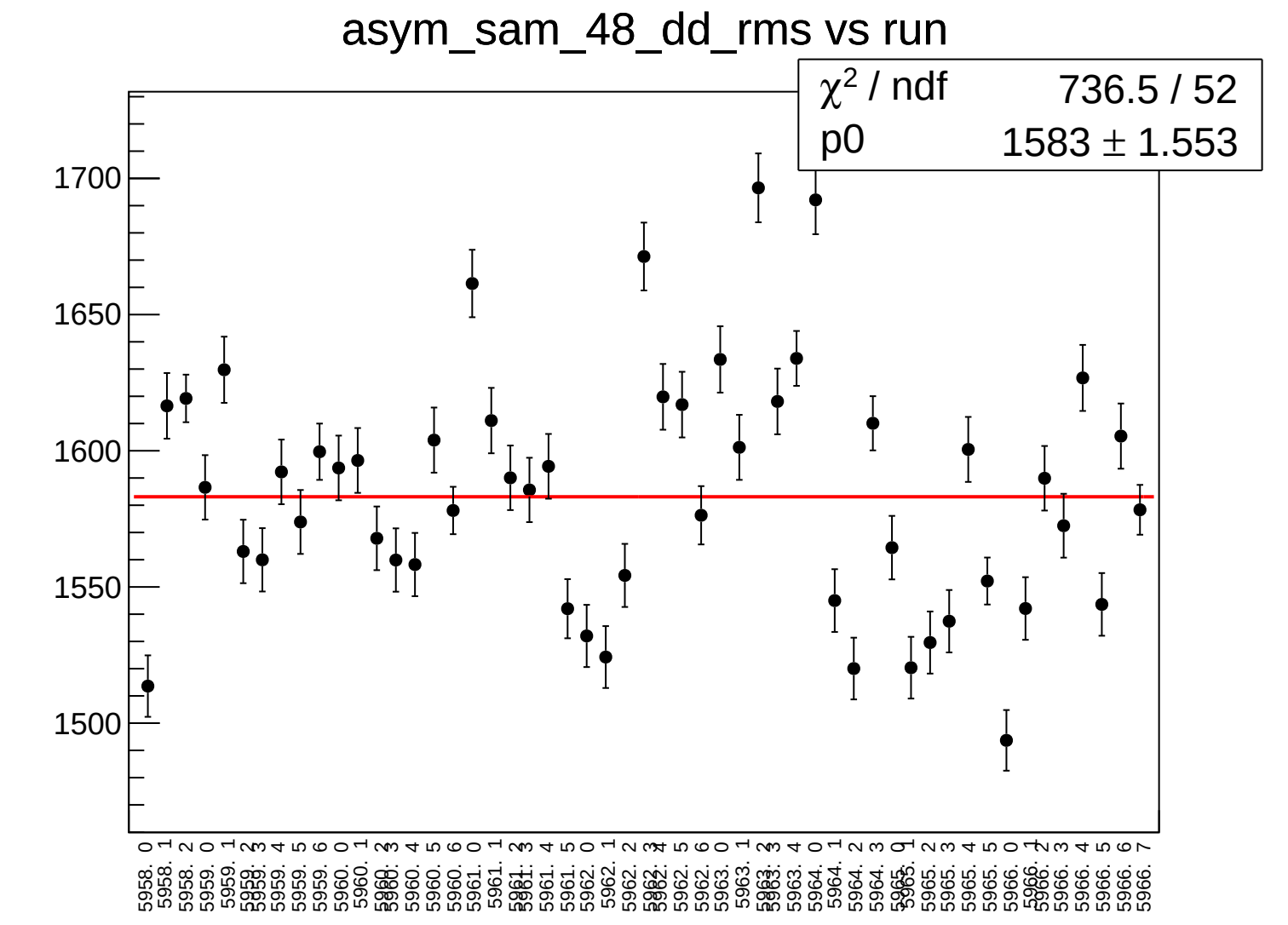

asym_sam_48_dd_correction_mean vs run
χ² / ndf 65.51 / 52
p0 873.8 ± 2186
pull
Entries 53
Mean 491.6
Std Dev 468.7

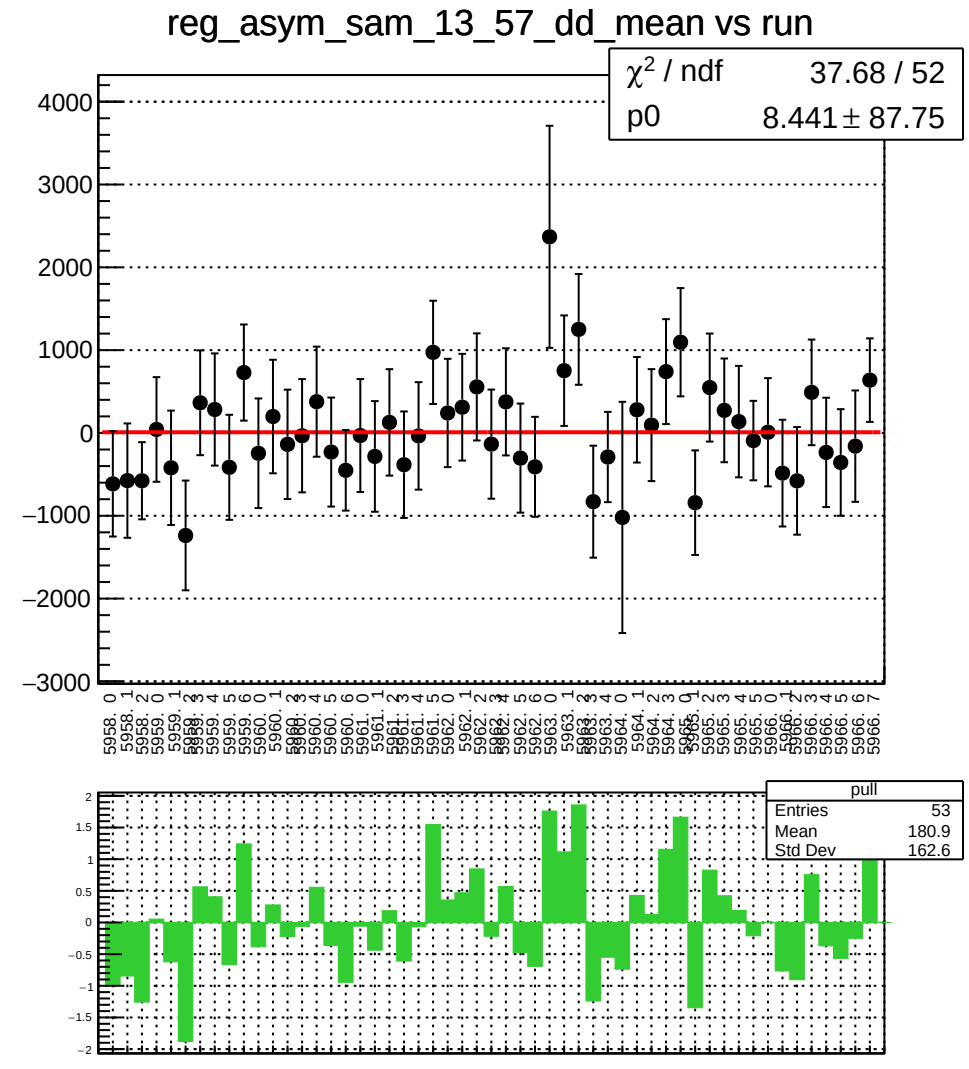

pull1D
Entries 53
Mean −0.005382
Std Dev 1.112

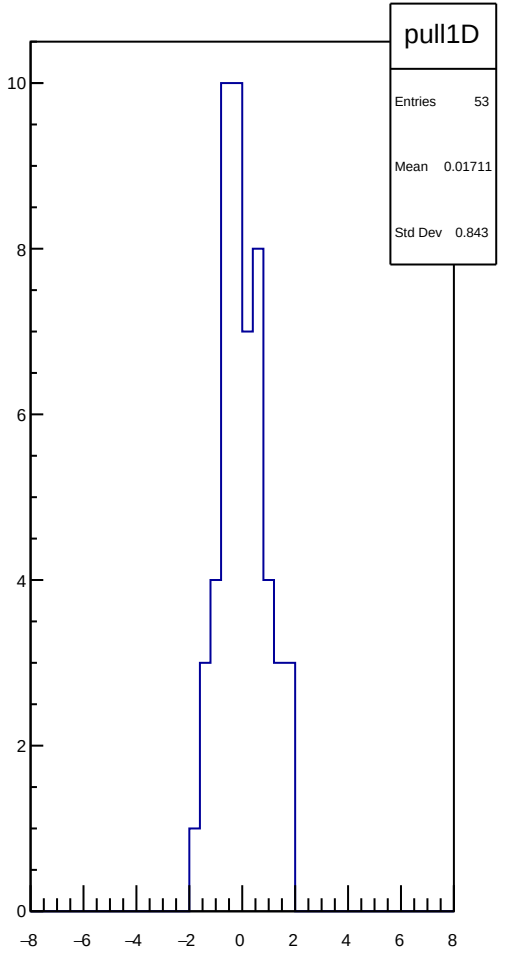

asym_sam_48_dd_correction_rms vs run
χ² / ndf 711.7 / 52
p0 1576 ± 1.546
1700
1650
1600
1550
1500

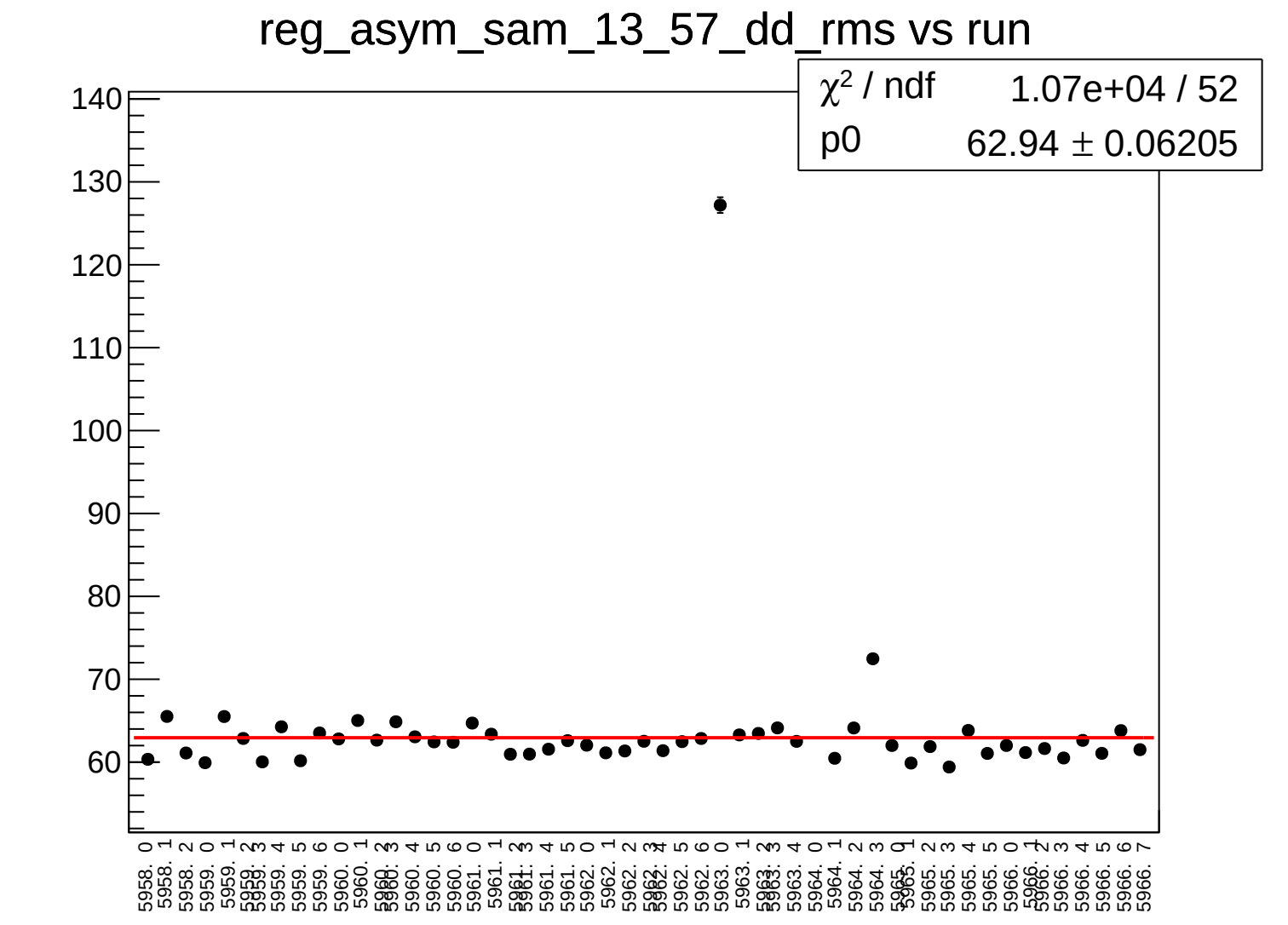

asym_sam_48_dd_mean vs run
χ² / ndf 64.44 / 52
p0 −812.4 ± 2196
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 53
Mean 459.3
Std Dev 436.2
2
1
0
−1
−2
−3

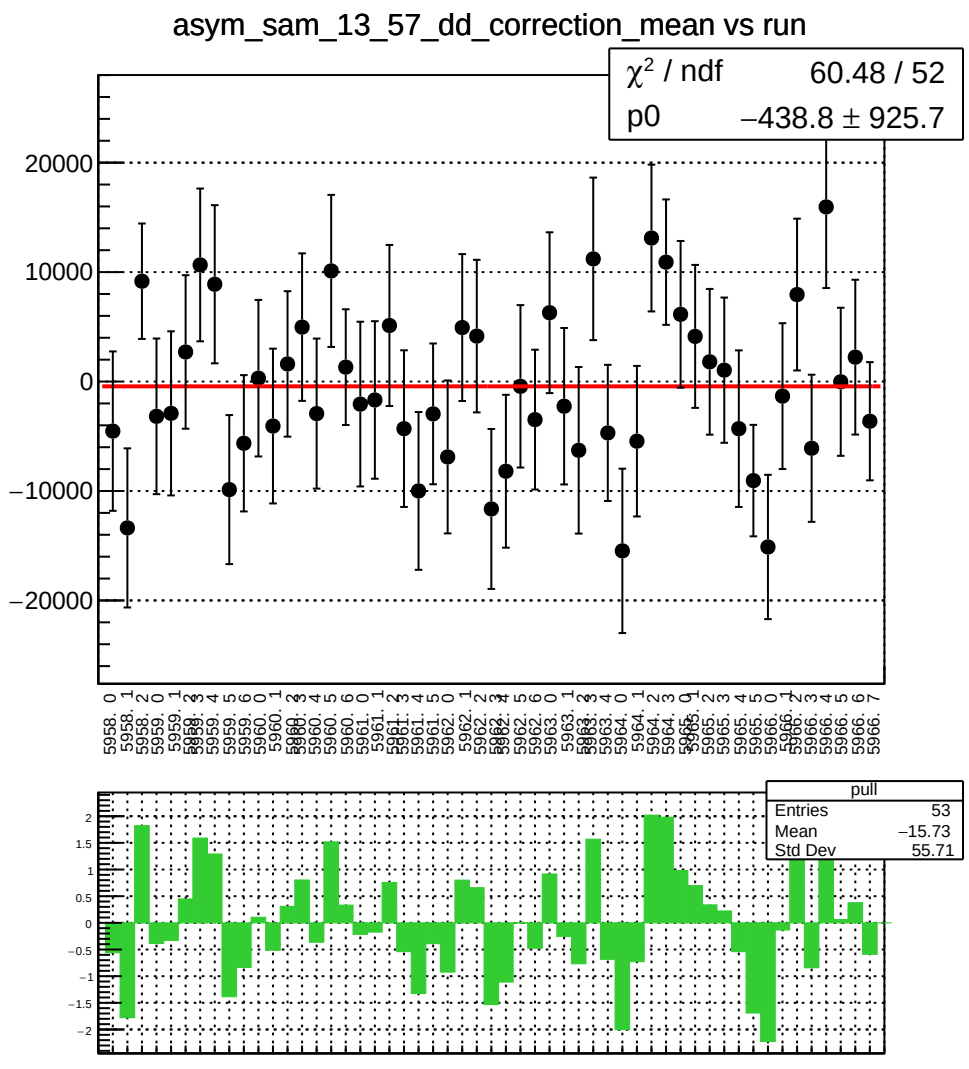

pull1D
Entries 53
Mean 0.00503
Std Dev 1.103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

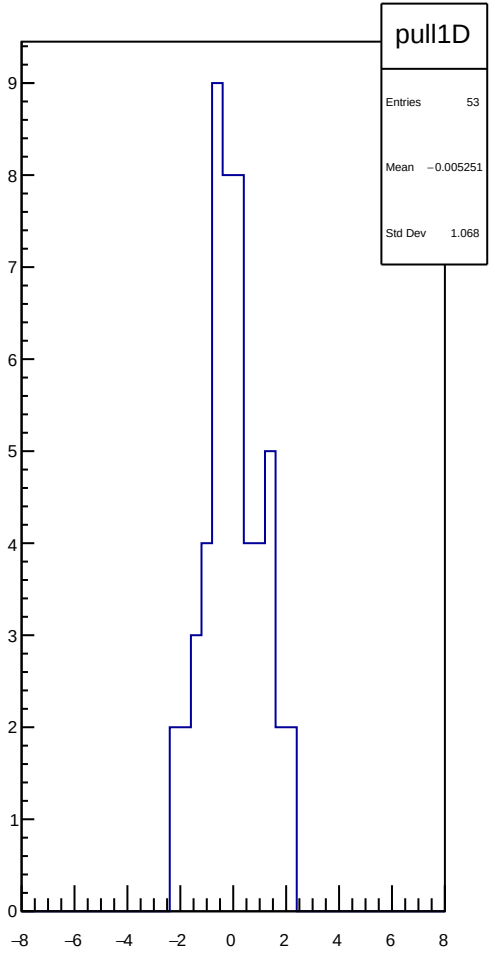

asym_sam_48_dd_rms vs run
χ² / ndf 736.5 / 52
p0 1583 ± 1.553
1700
1650
1600
1550
1500

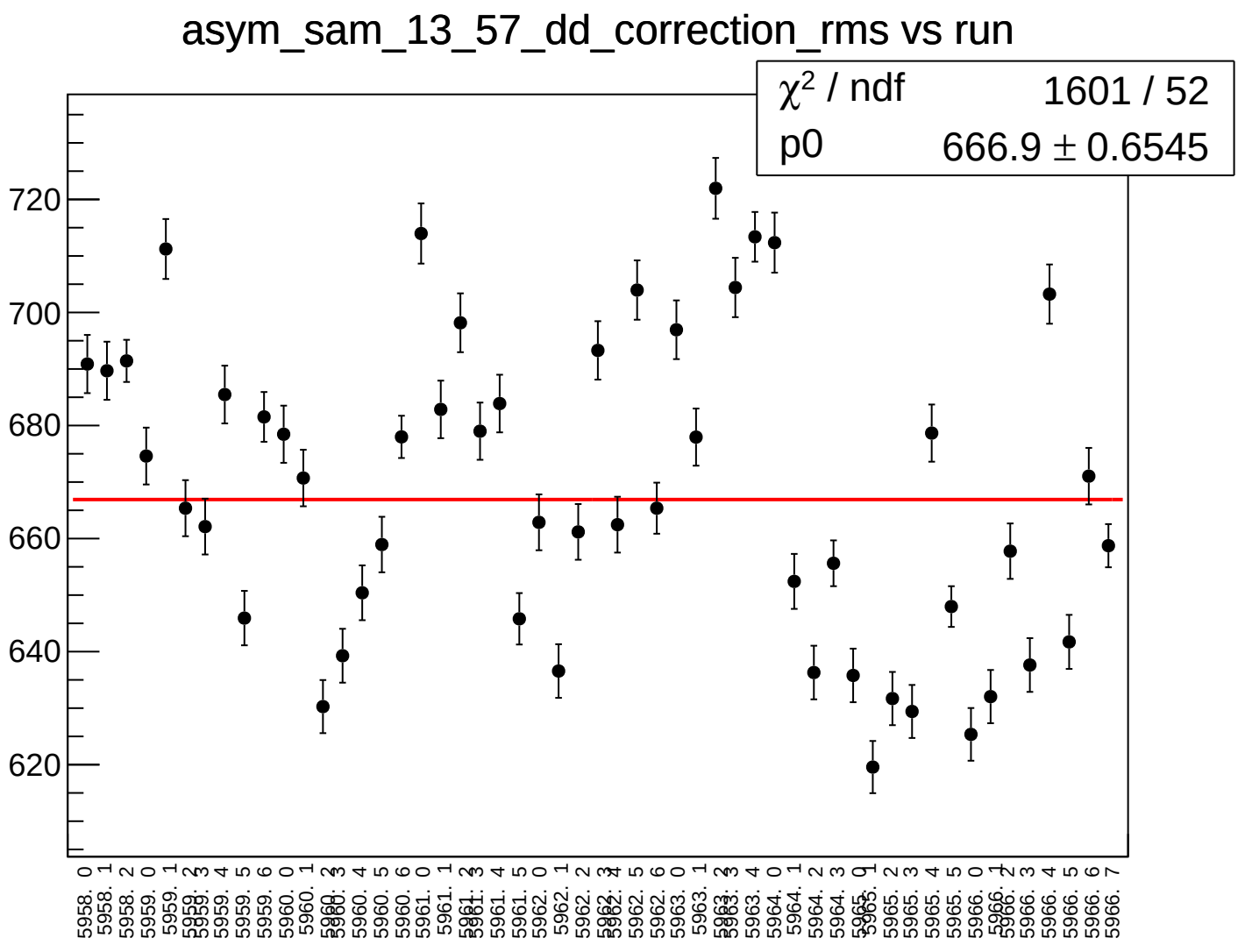

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 37.68 / 52
p0 8.441 ± 87.75
pull
Entries 53
Mean 180.9
Std Dev 162.6

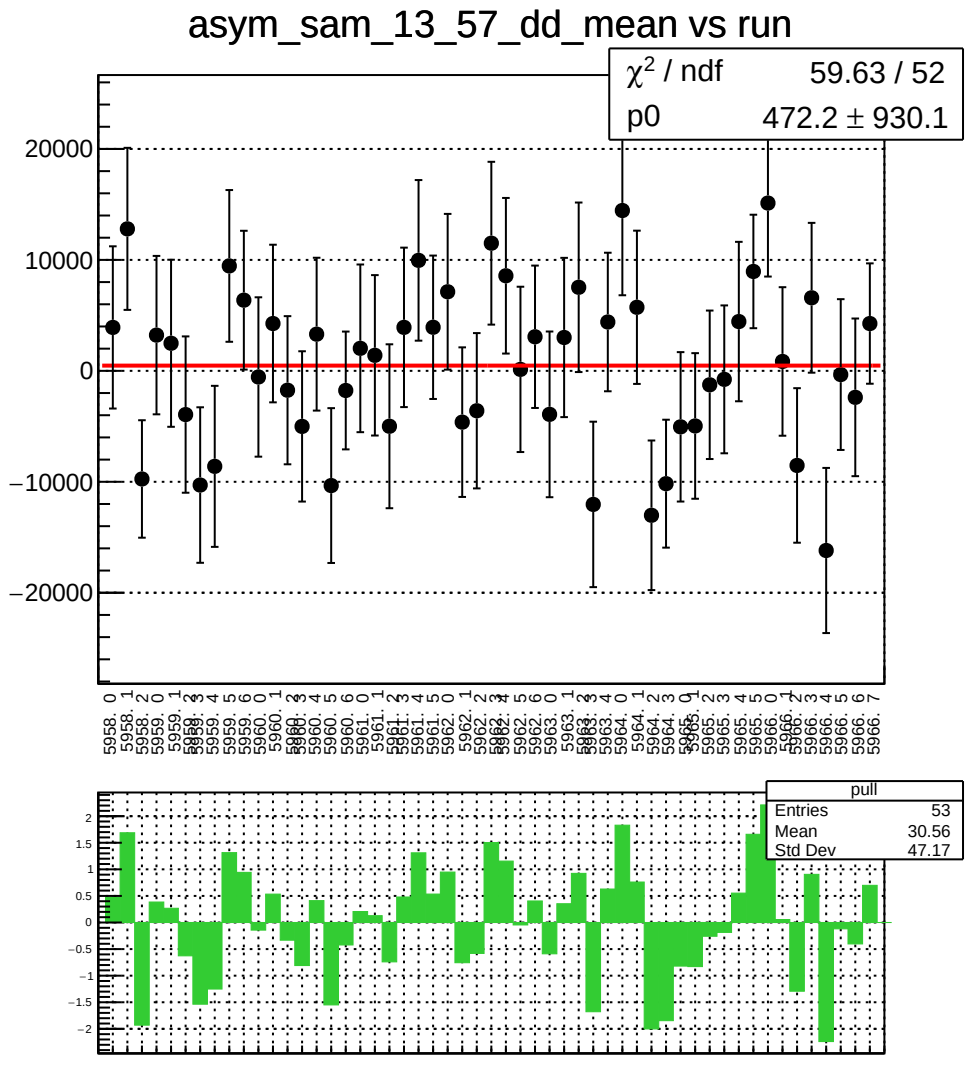

pull1D
Entries 53
Mean 0.01711
Std Dev 0.843

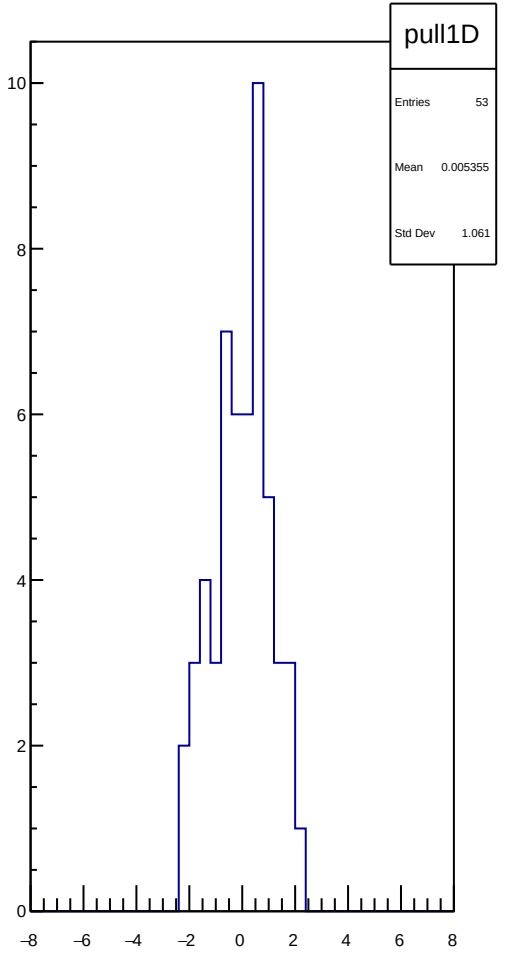

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.07e+04 / 52
p0 62.94 ± 0.06205
140
130
120
110
100
90
80
70
60
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

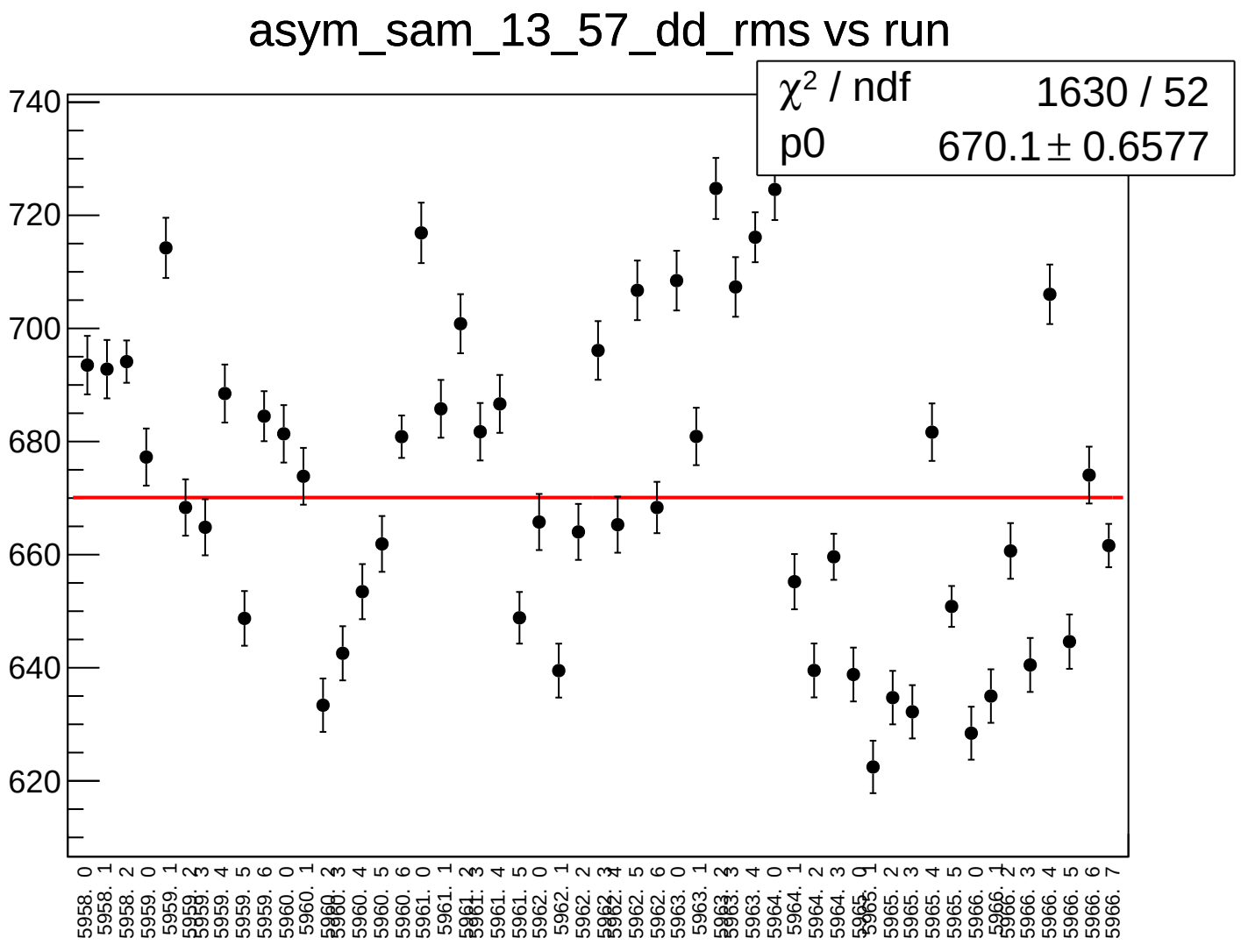

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 60.48 / 52
p0 −438.8 ± 925.7
20000
10000
0
−10000
−20000
pull
Entries 53
Mean −15.73
Std Dev 55.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

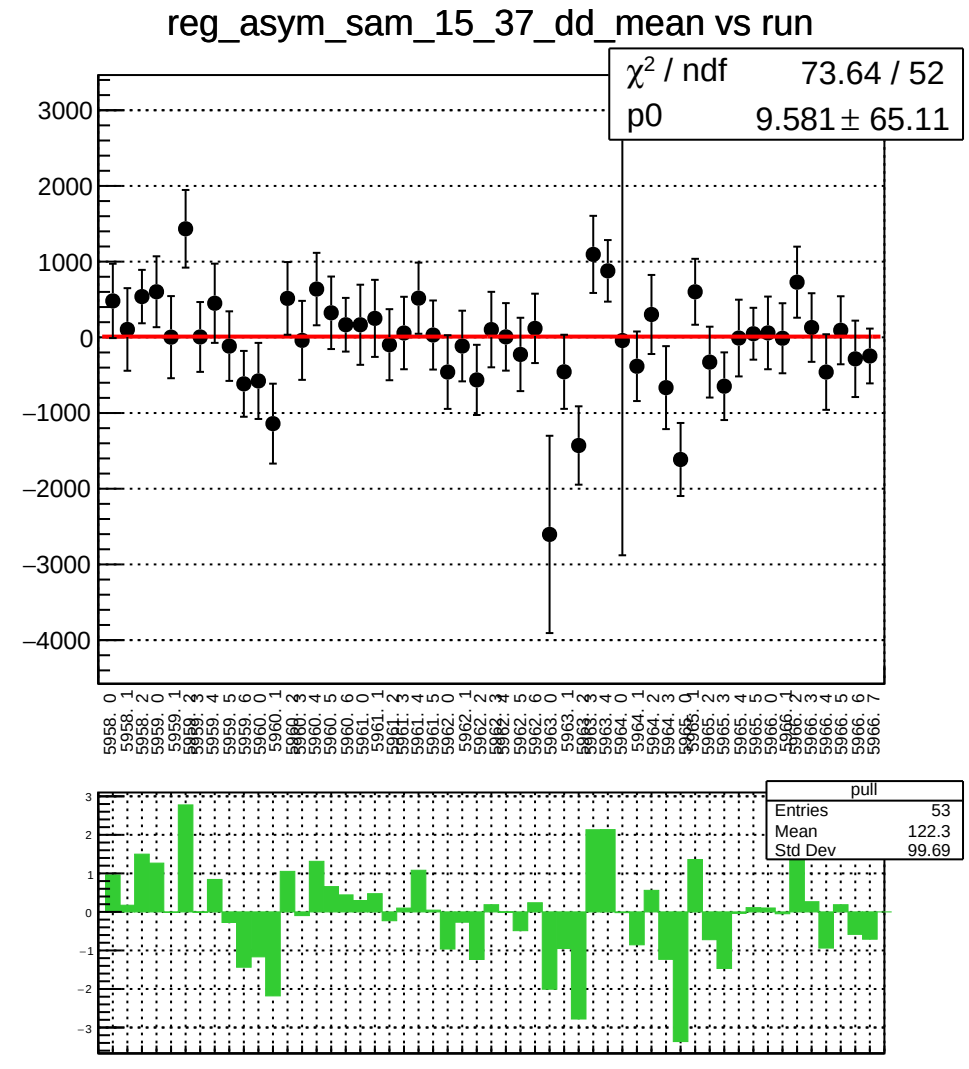

pull1D
Entries 53
Mean −0.005251
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

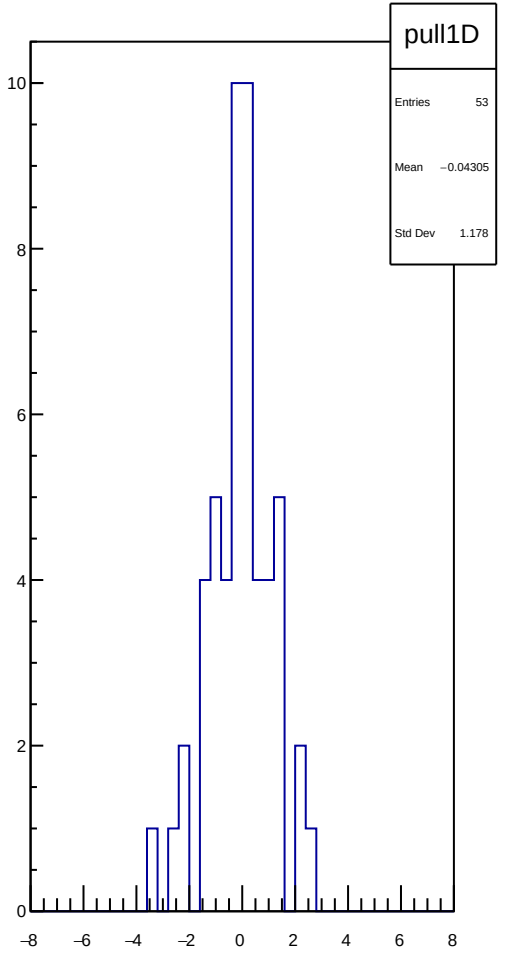

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 1601 / 52
p0 666.9 ± 0.6545
720
700
680
660
640
620

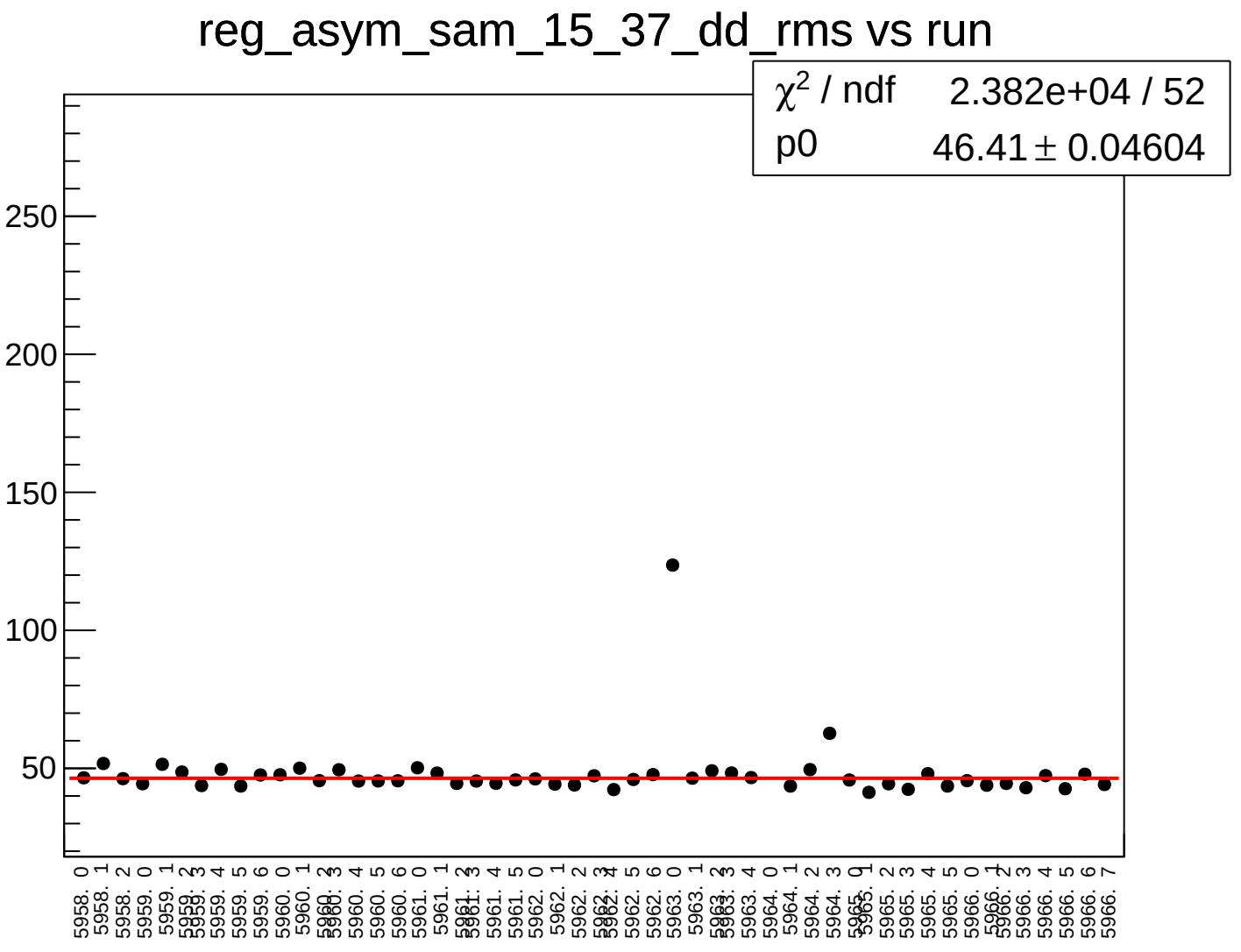

asym_sam_13_57_dd_mean vs run
χ² / ndf 59.63 / 52
p0 472.2 ± 930.1
20000
10000
0
−10000
−20000
pull
Entries 53
Mean 30.56
Std Dev 47.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

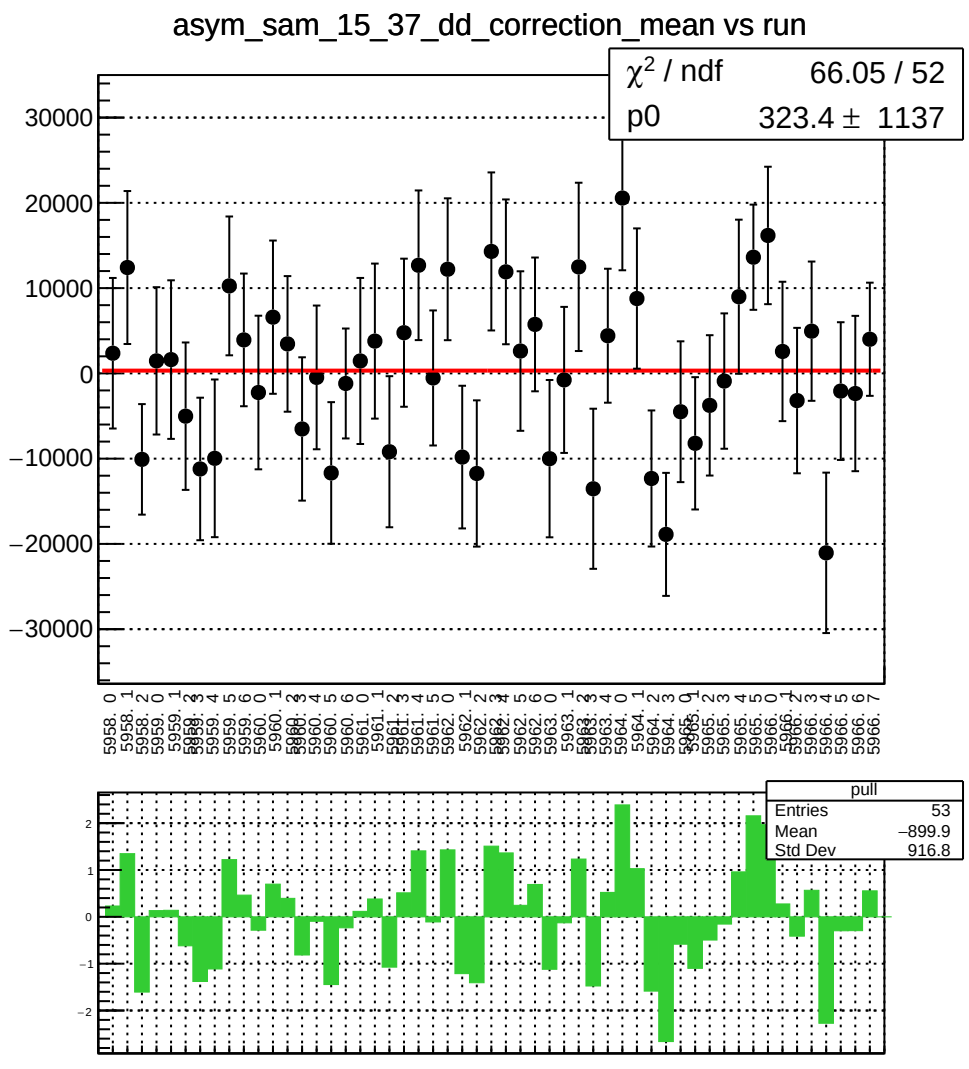

pull1D
Entries 53
Mean 0.005355
Std Dev 1.061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

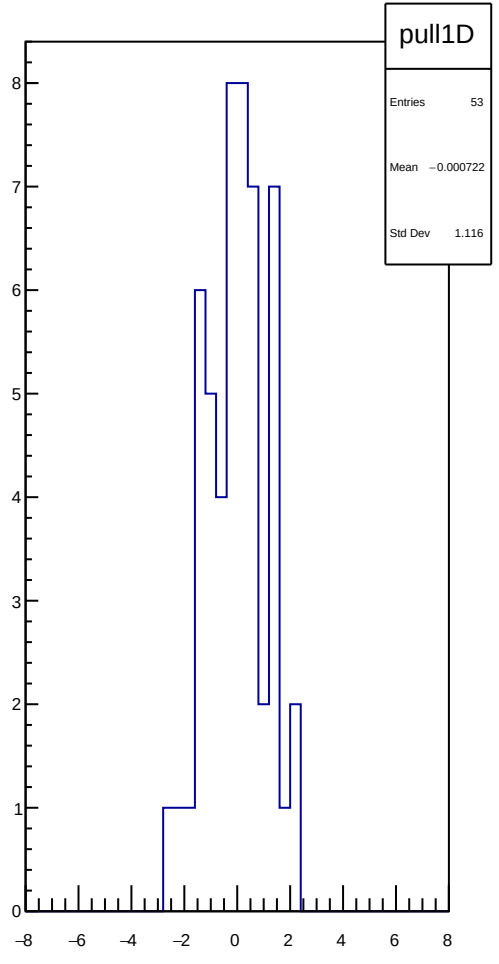

asym_sam_13_57_dd_rms vs run
χ² / ndf 1630 / 52
p0 670.1 ± 0.6577
740
720
700
680
660
640
620
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

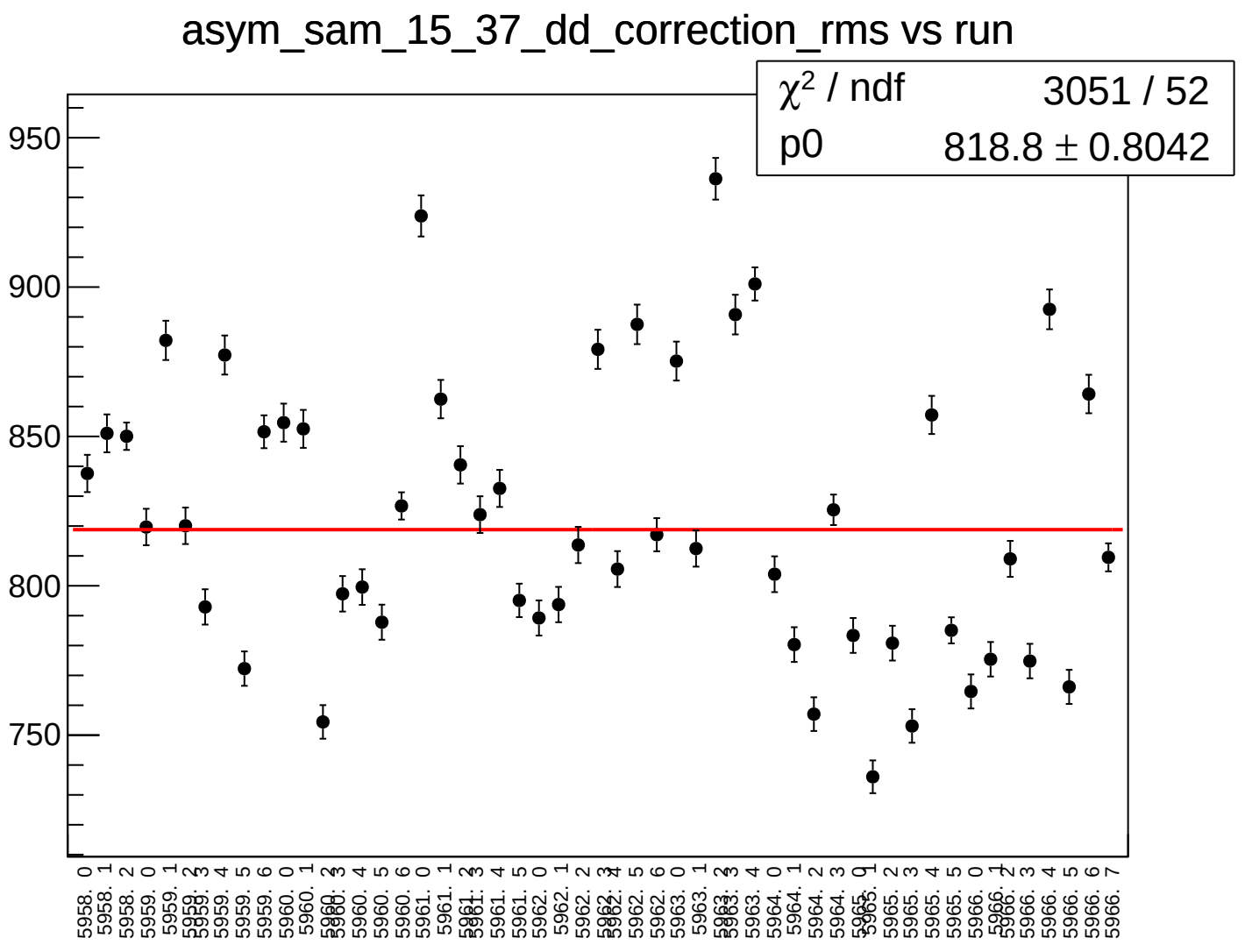

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 73.64 / 52
p0 9.581 ± 65.11
pull
Entries 53
Mean 122.3
Std Dev 99.69

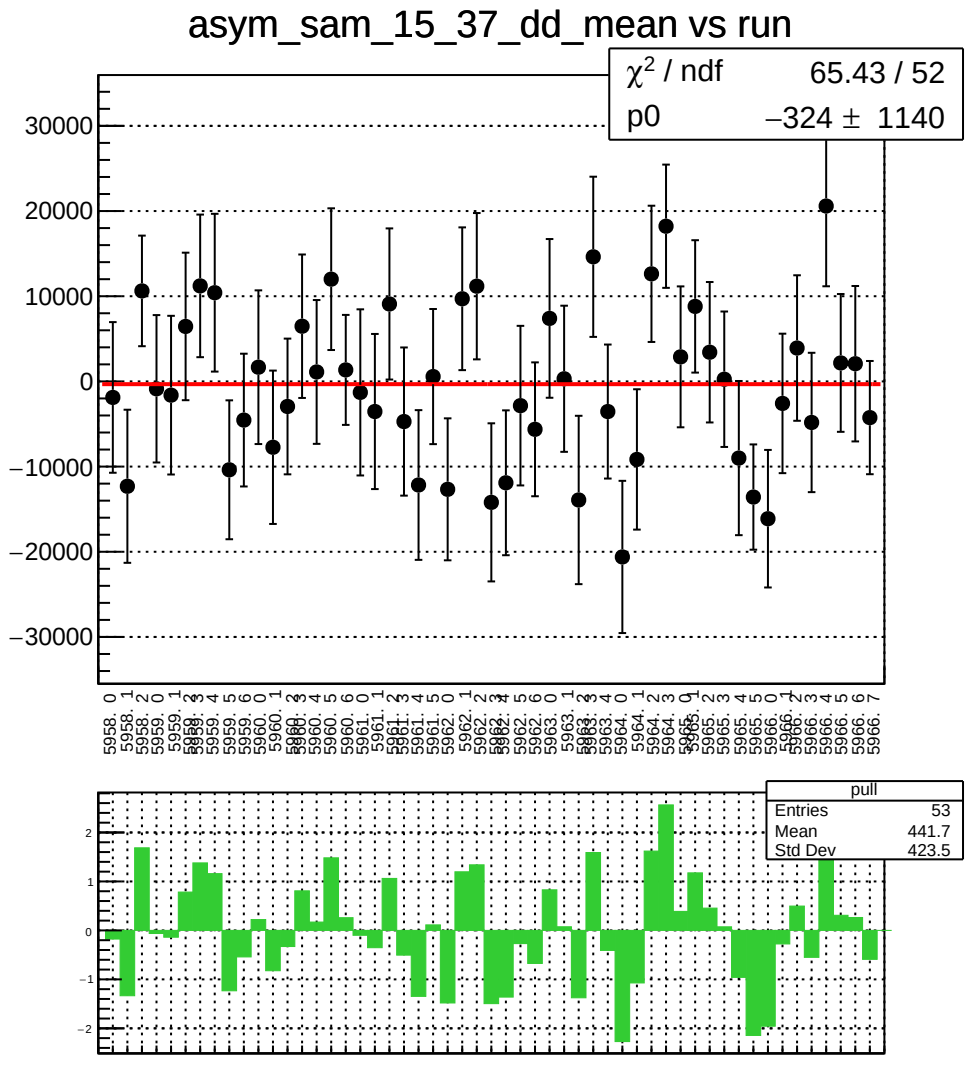

pull1D
Entries 53
Mean −0.04305
Std Dev 1.178

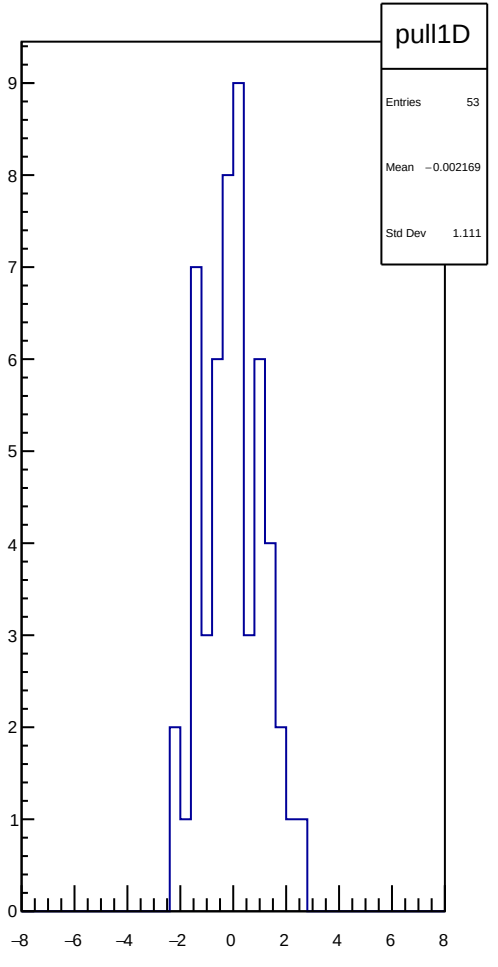

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.382e+04 / 52
p0 46.41 ± 0.04604
250
200
150
100
50
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

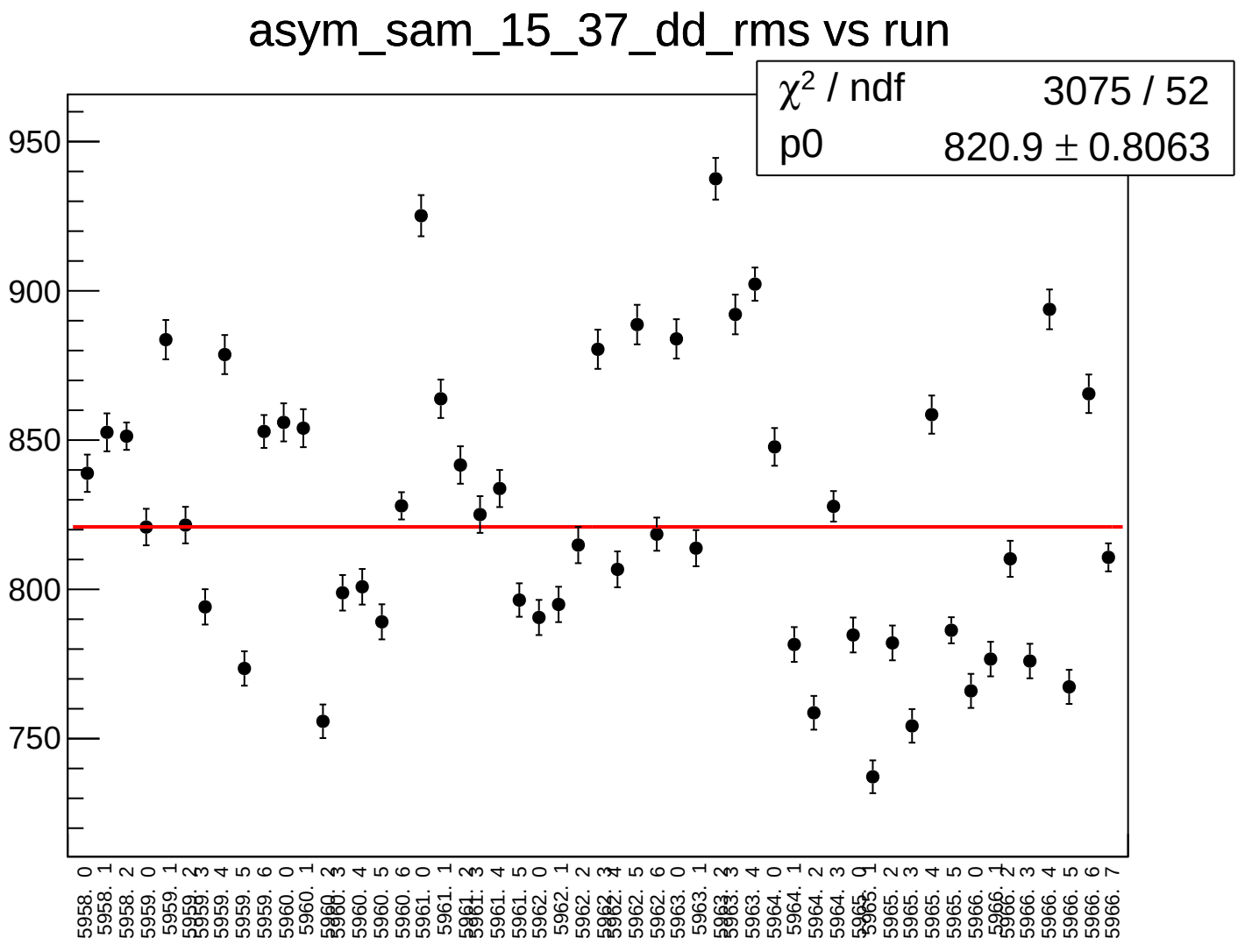

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 66.05 / 52
p0 323.4 ± 1137
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 53
Mean −899.9
Std Dev 916.8
2
1
0
−1
−2

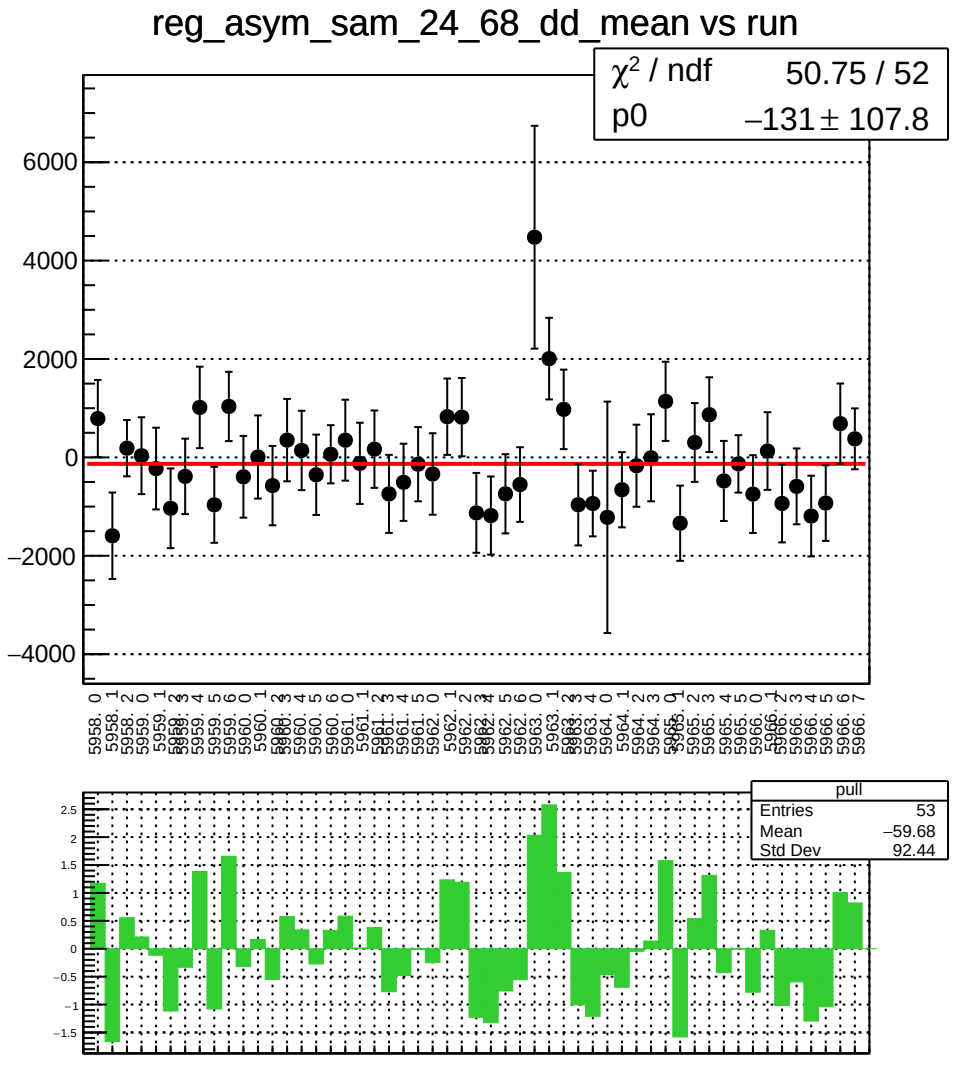

pull1D
Entries 53
Mean −0.000722
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

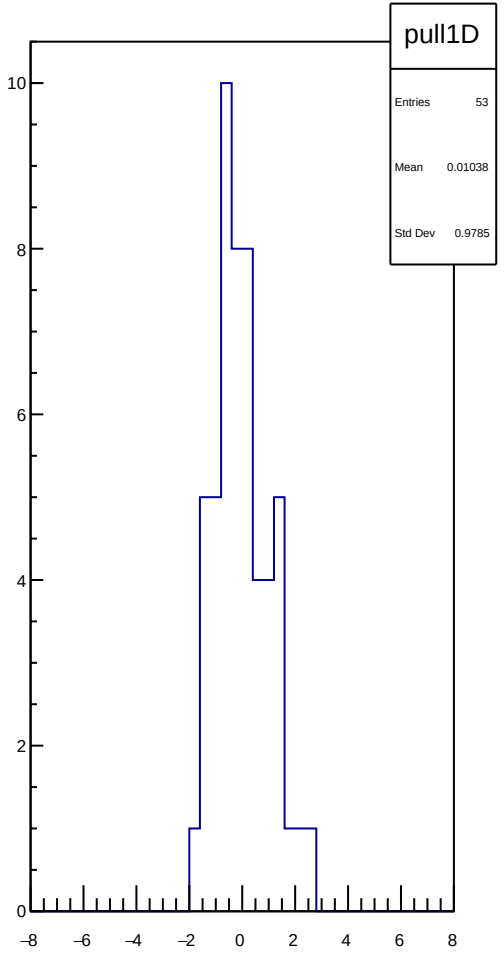

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 3051 / 52
p0 818.8 ± 0.8042
950
900
850
800
750

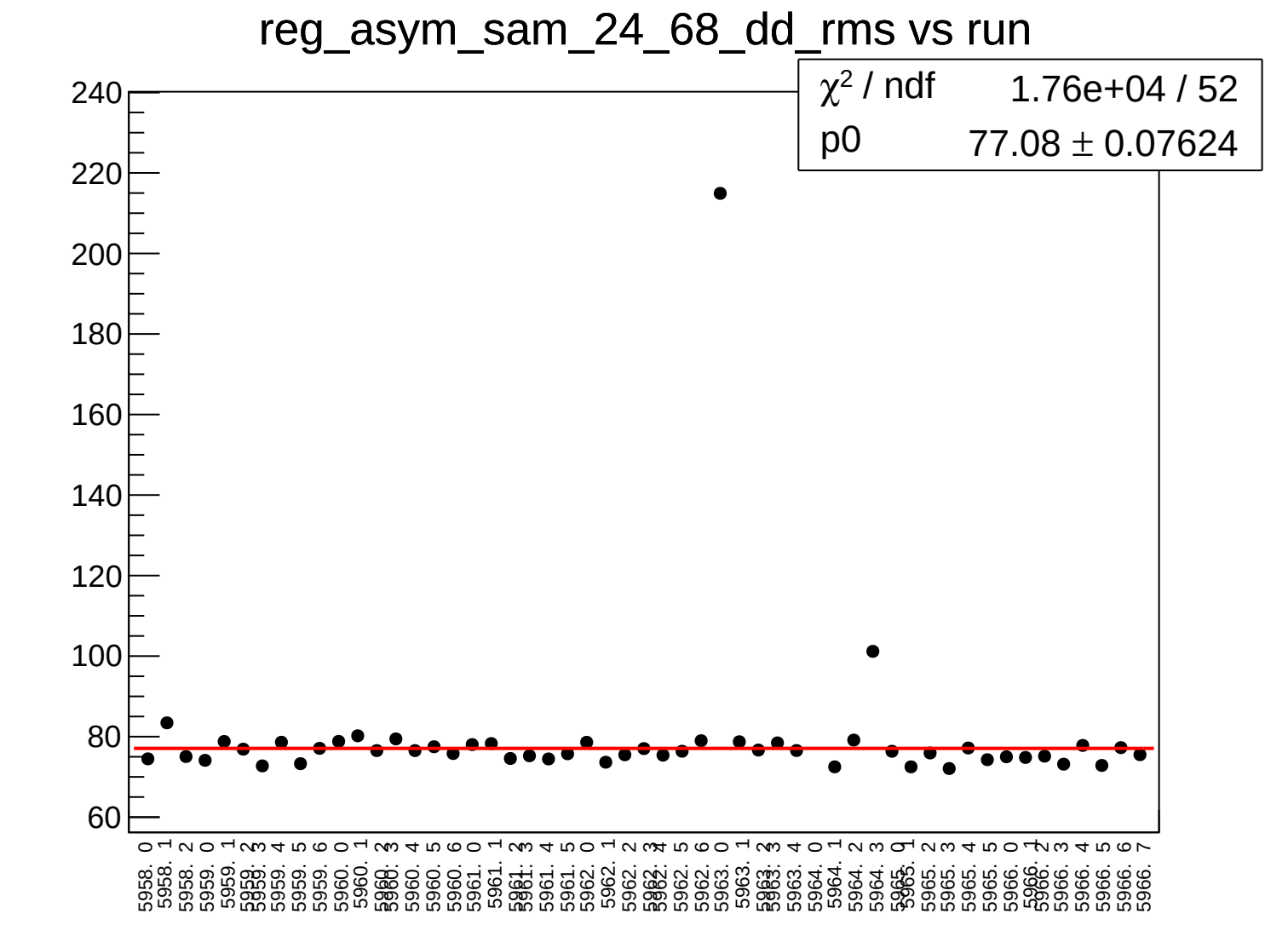

asym_sam_15_37_dd_mean vs run
χ² / ndf 65.43 / 52
p0 −324 ± 1140
pull
Entries 53
Mean 441.7
Std Dev 423.5

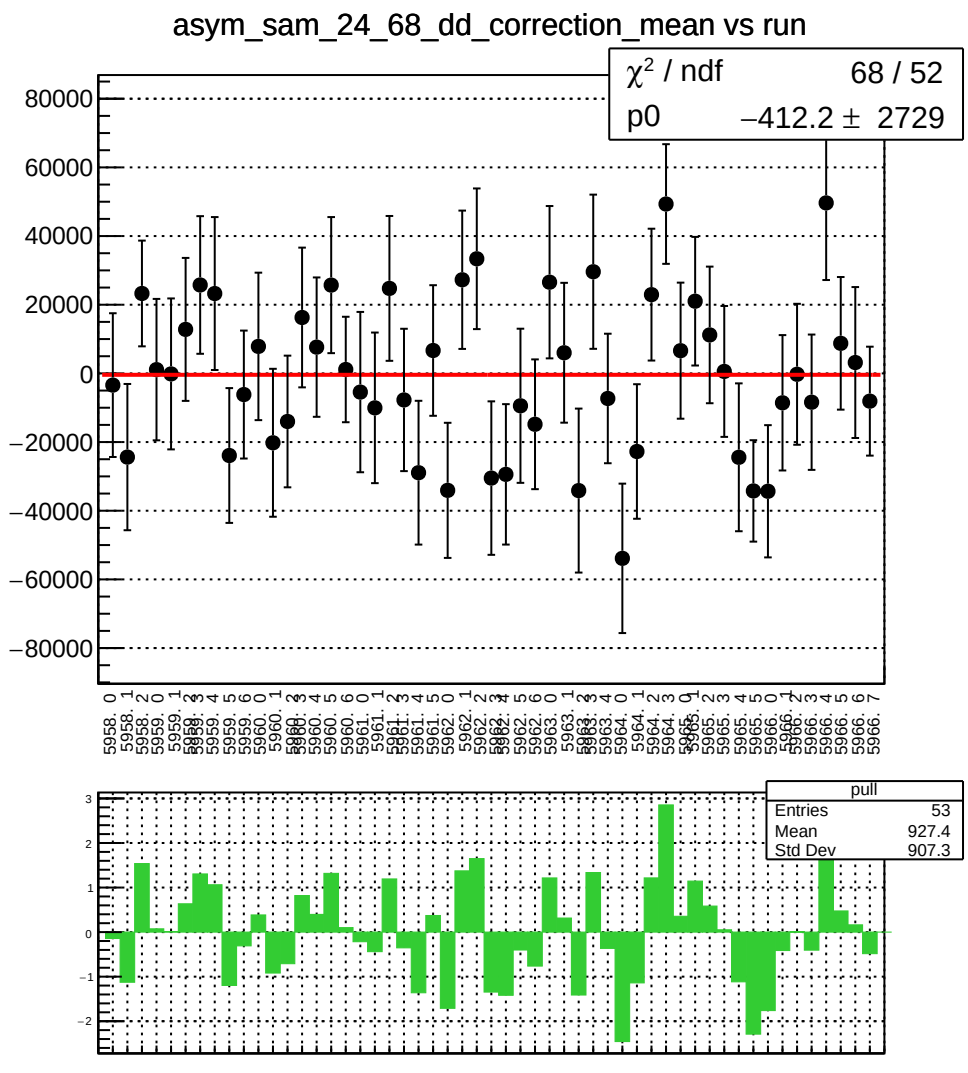

pull1D
Entries 53
Mean −0.002169
Std Dev 1.111

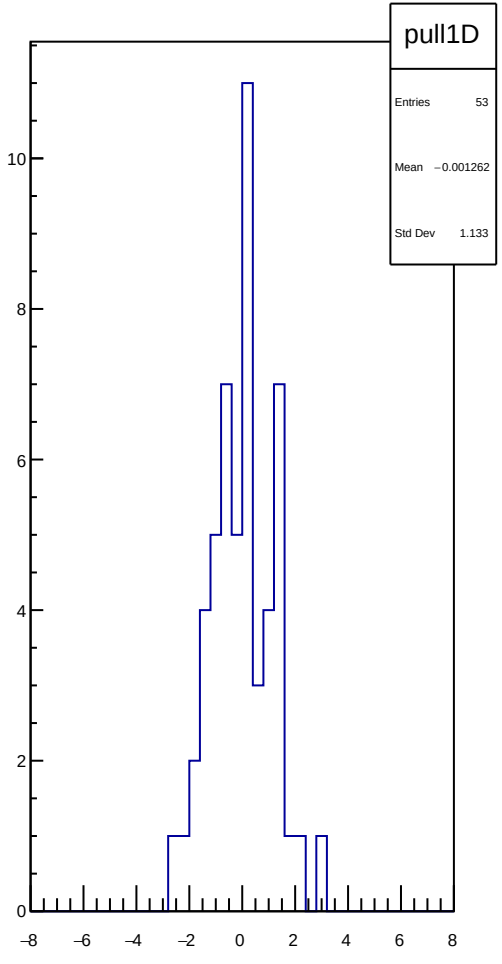

asym_sam_15_37_dd_rms vs run
χ² / ndf 3075 / 52
p0 820.9 ± 0.8063
950
900
850
800
750

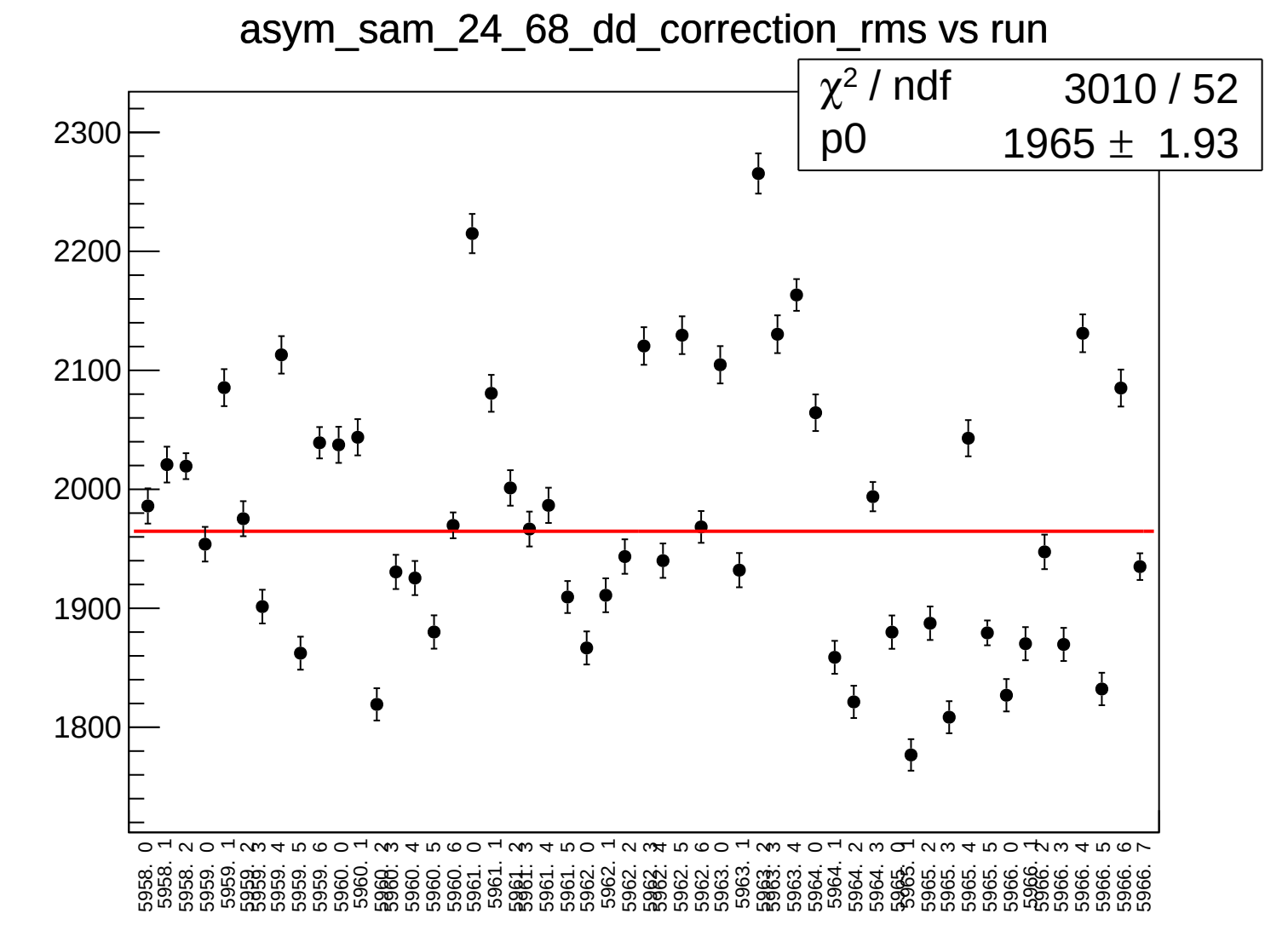

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 50.75 / 52
p0 −131 ± 107.8
6000
4000
2000
0
−2000
−4000
pull
Entries 53
Mean −59.68
Std Dev 92.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

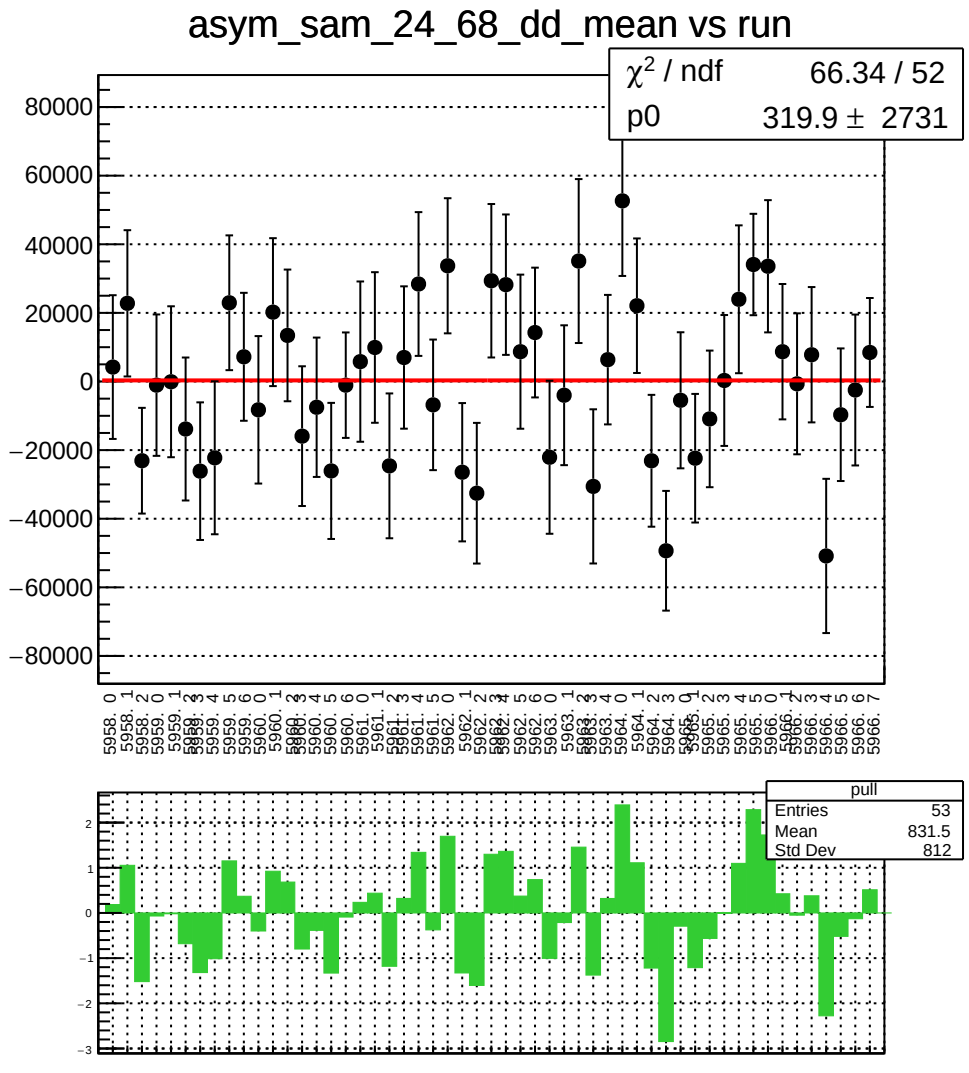

pull1D
Entries 53
Mean 0.01038
Std Dev 0.9785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

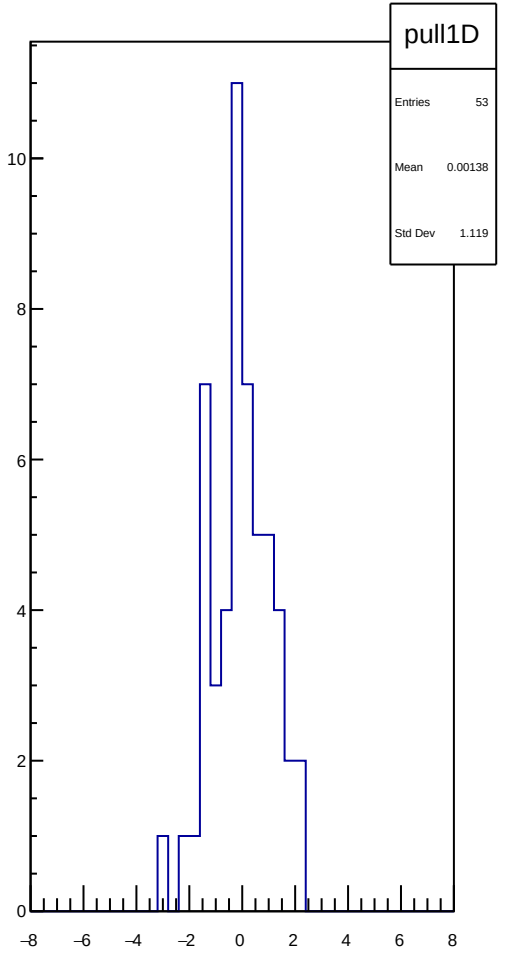

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.76e+04 / 52
p0 77.08 ± 0.07624
240
220
200
180
160
140
120
100
80
60

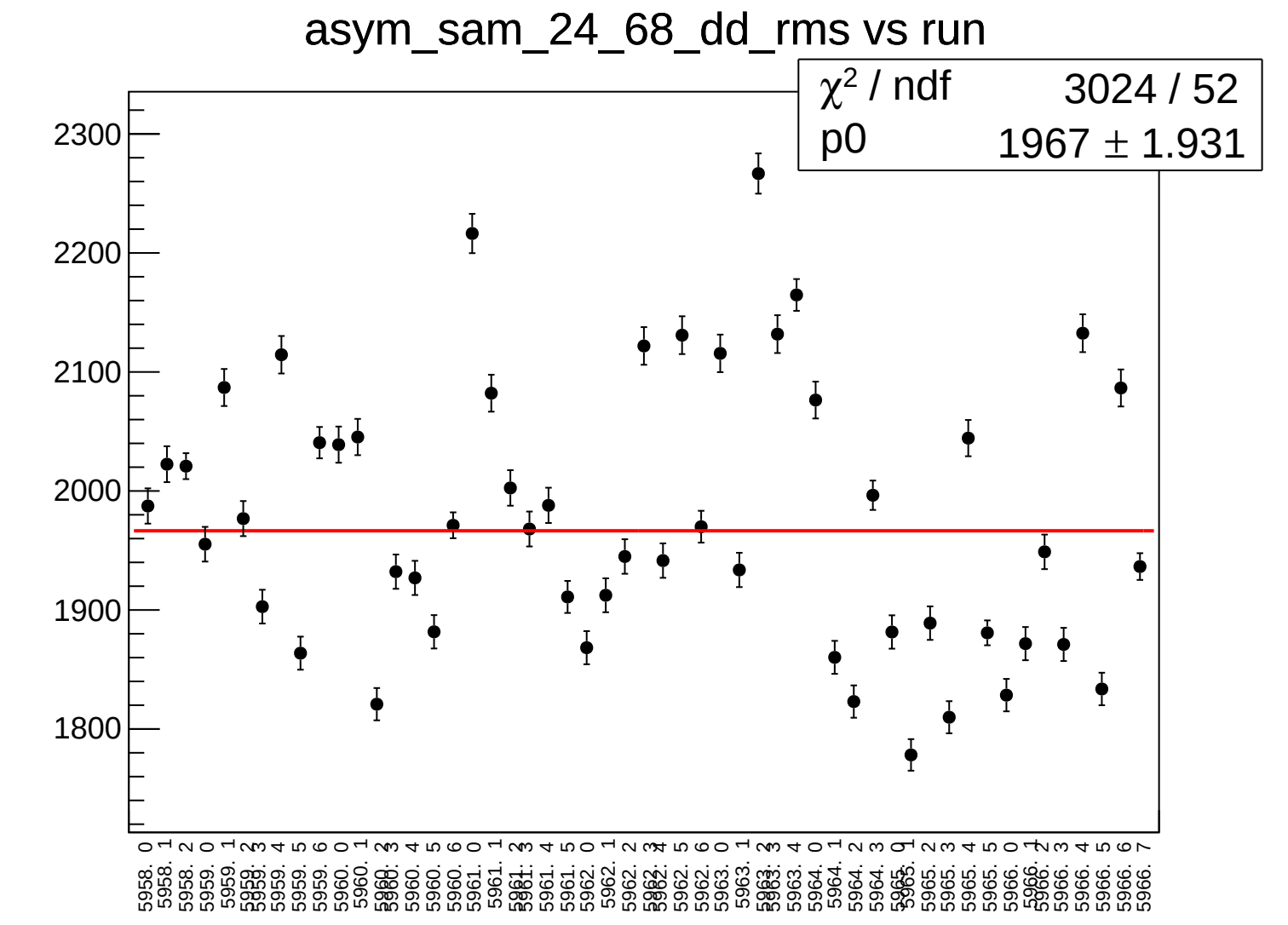

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 68 / 52
p0 −412.2 ± 2729
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 53
Mean 927.4
Std Dev 907.3
3
2
1
0
−1
−2

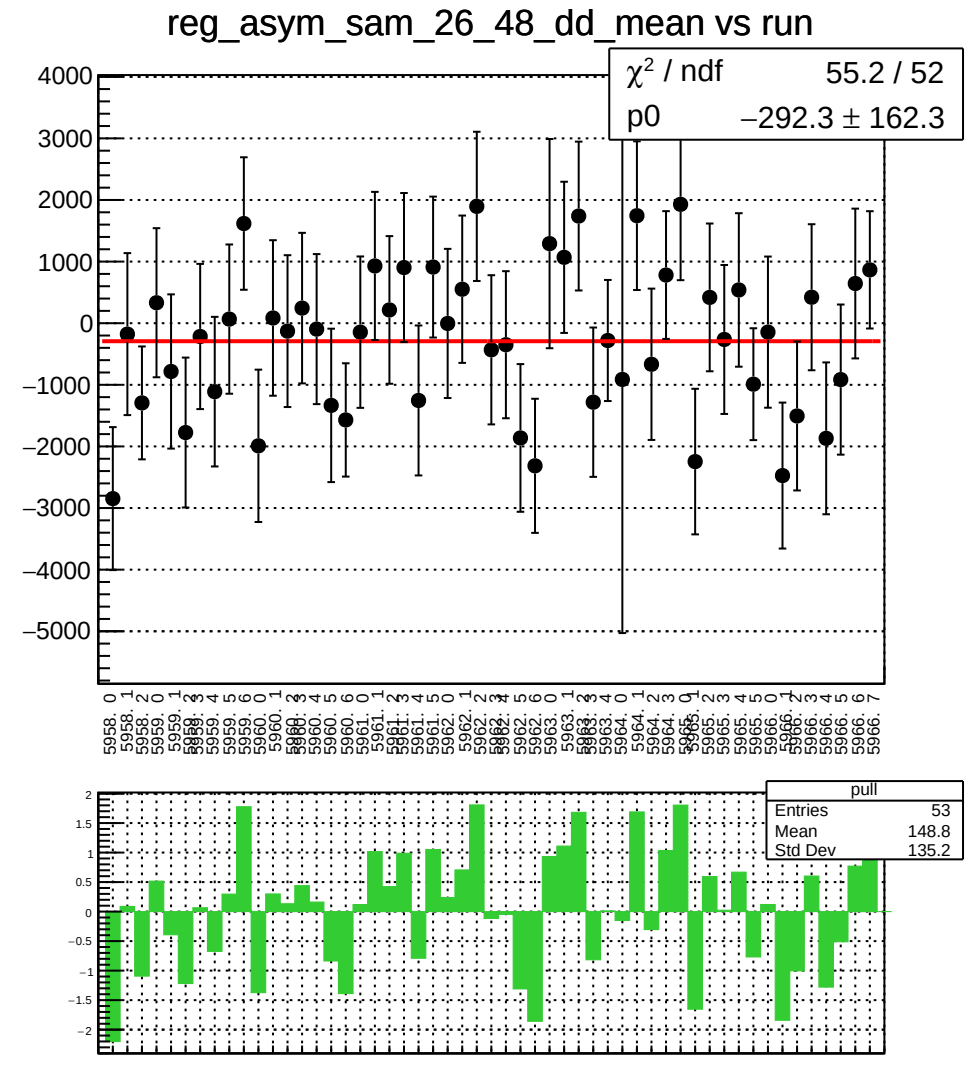

pull1D
Entries 53
Mean −0.001262
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

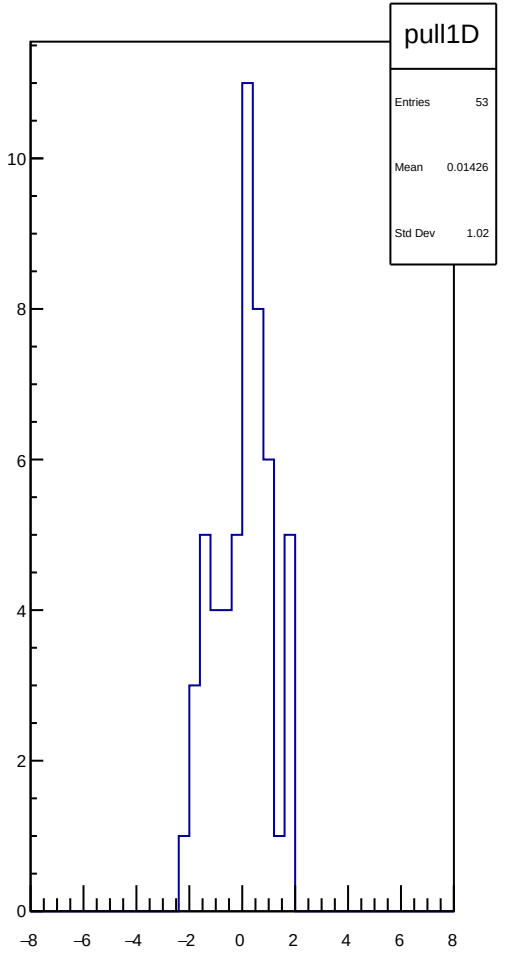

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3010 / 52
p0 1965 ± 1.93
2300
2200
2100
2000
1900
1800
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

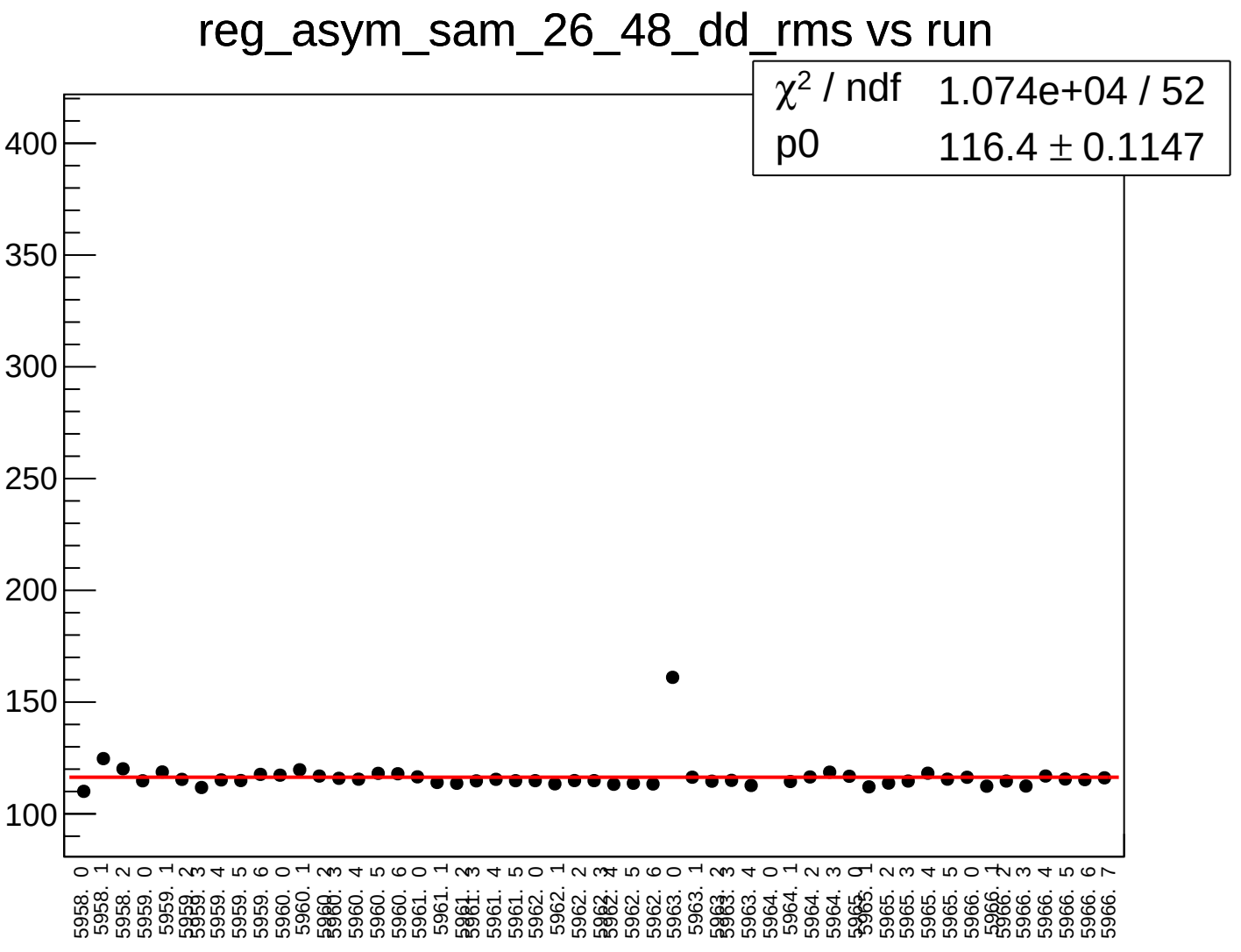

asym_sam_24_68_dd_mean vs run
χ² / ndf 66.34 / 52
p0 319.9 ± 2731
pull
Entries 53
Mean 831.5
Std Dev 812

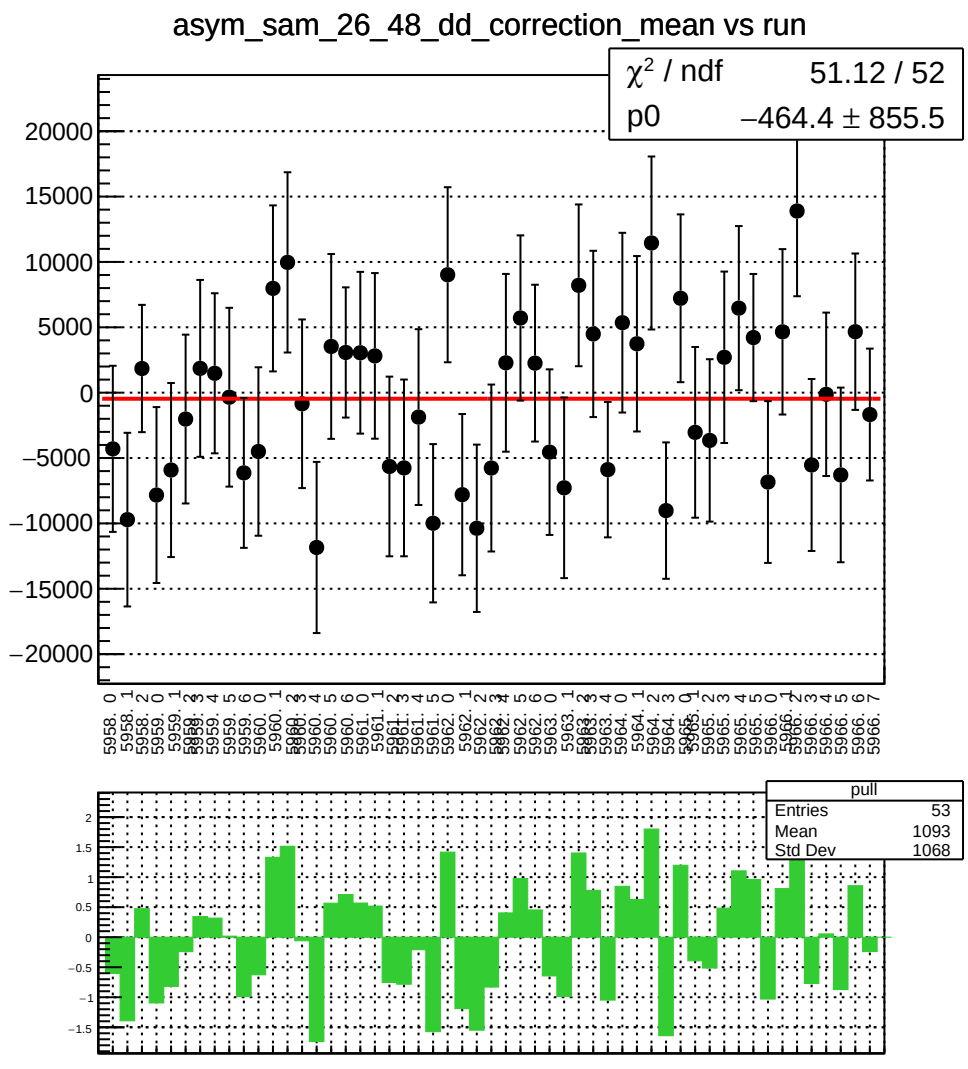

pull1D
Entries 53
Mean 0.00138
Std Dev 1.119

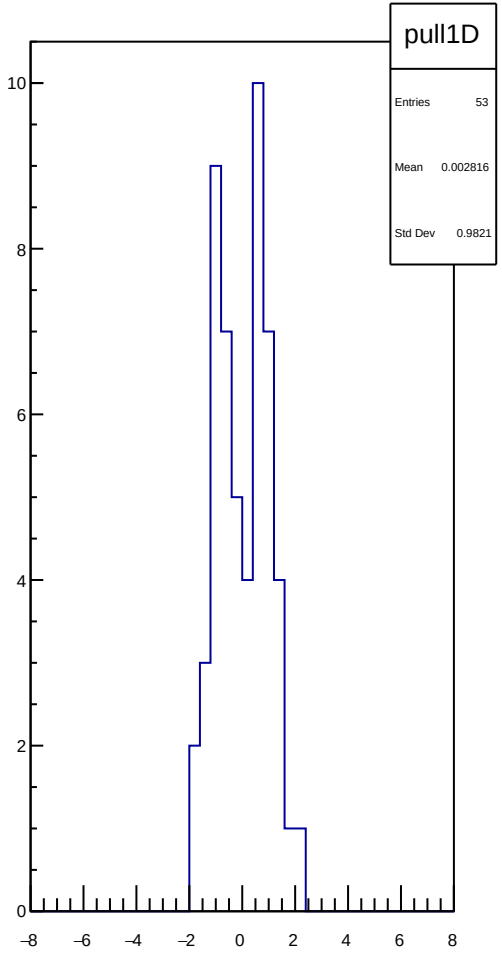

asym_sam_24_68_dd_rms vs run
χ² / ndf 3024 / 52
p0 1967 ± 1.931
2300
2200
2100
2000
1900
1800
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

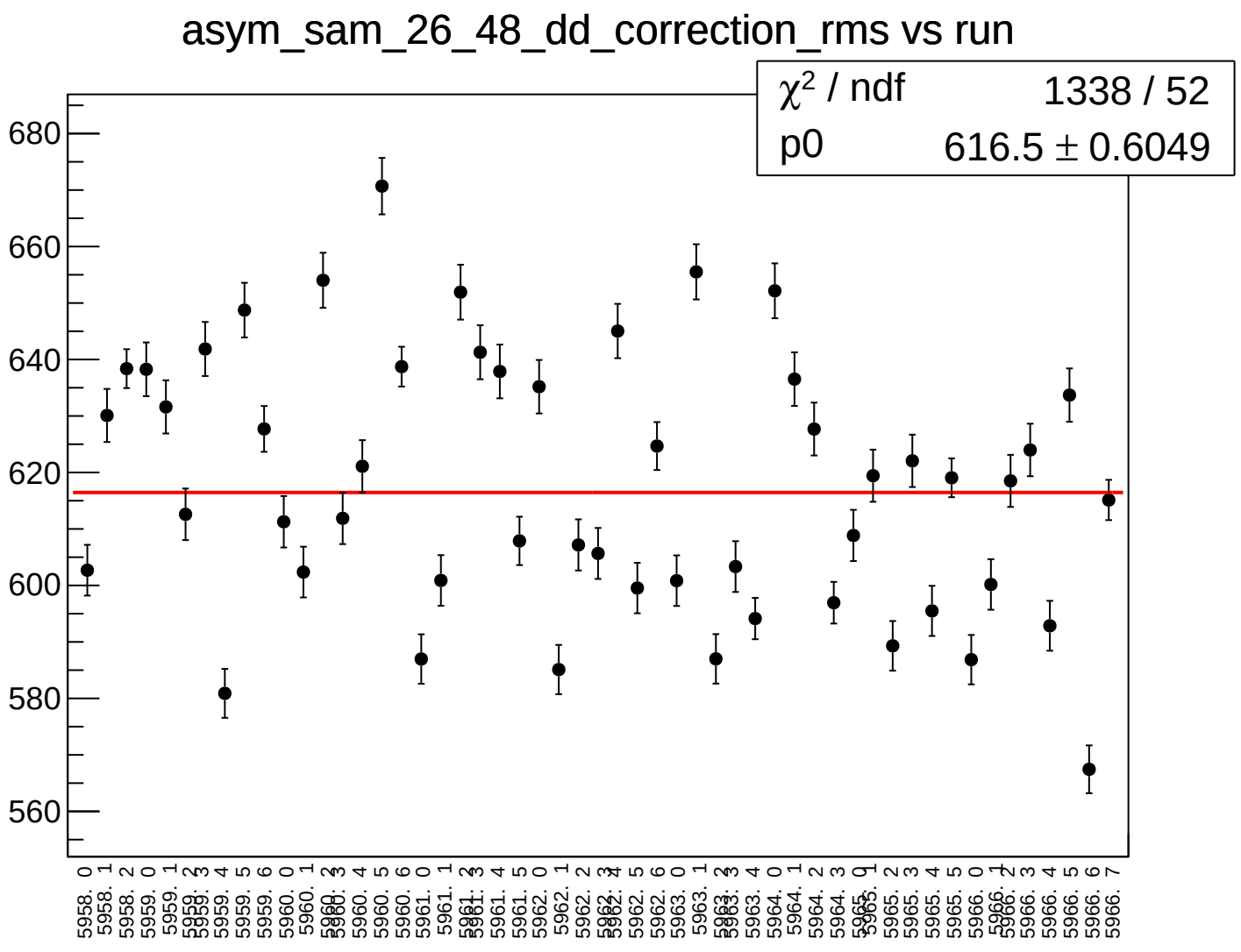

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 55.2 / 52
p0 −292.3 ± 162.3
pull
Entries 53
Mean 148.8
Std Dev 135.2

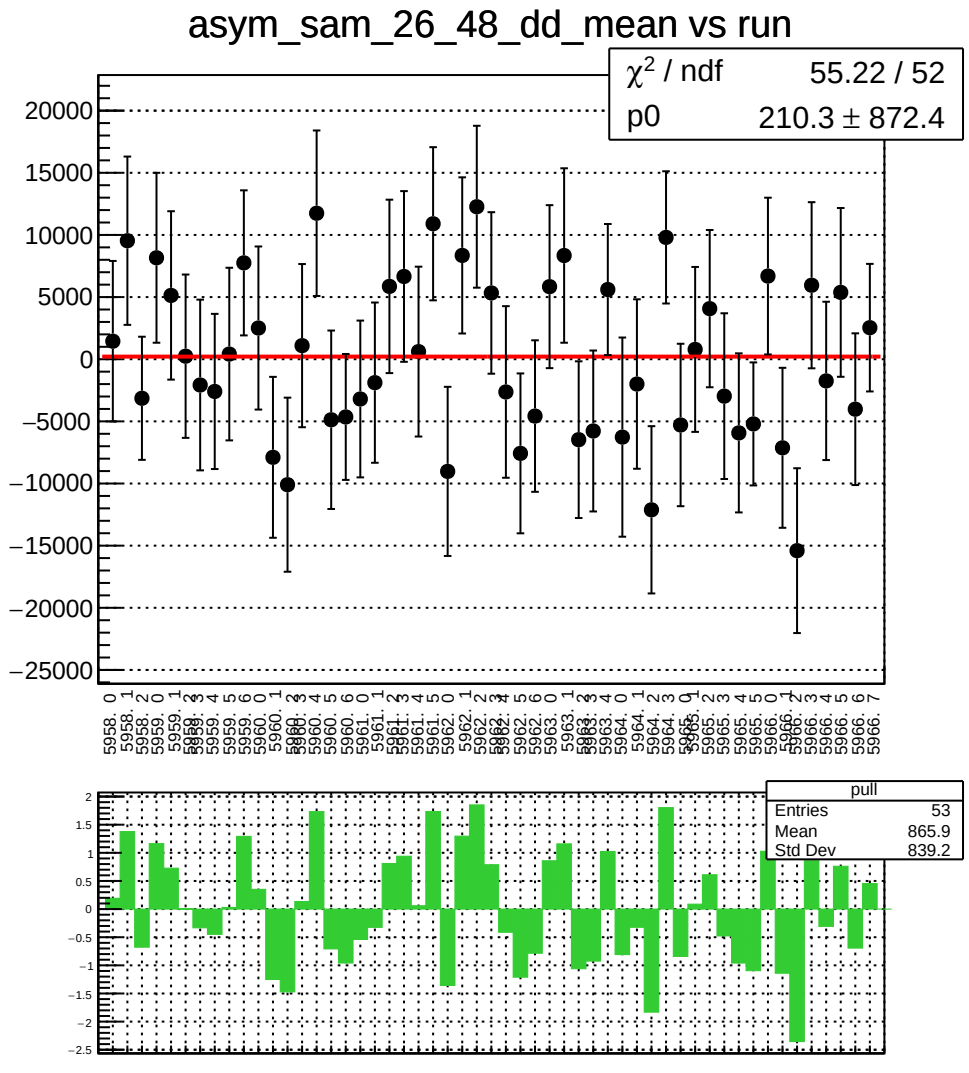

pull1D
Entries 53
Mean 0.01426
Std Dev 1.02

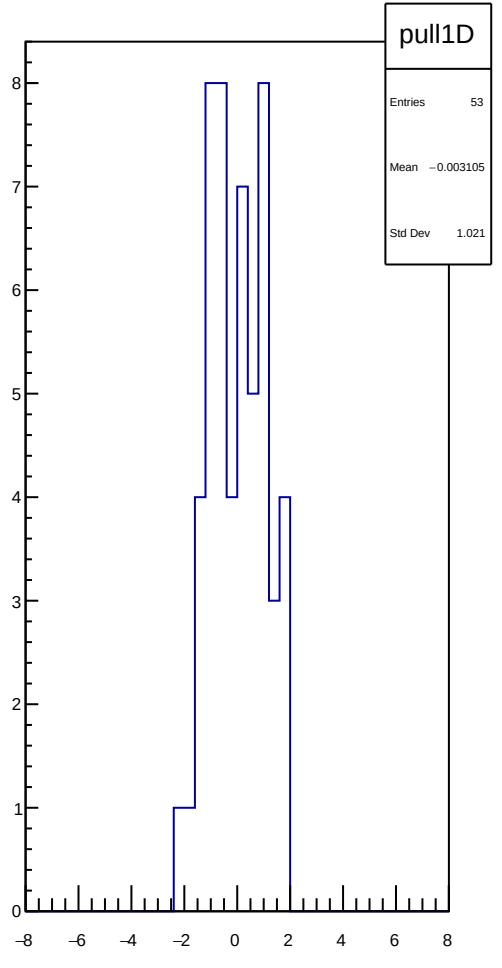

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.074e+04 / 52
p0 116.4 ± 0.1147
400
350
300
250
200
150
100

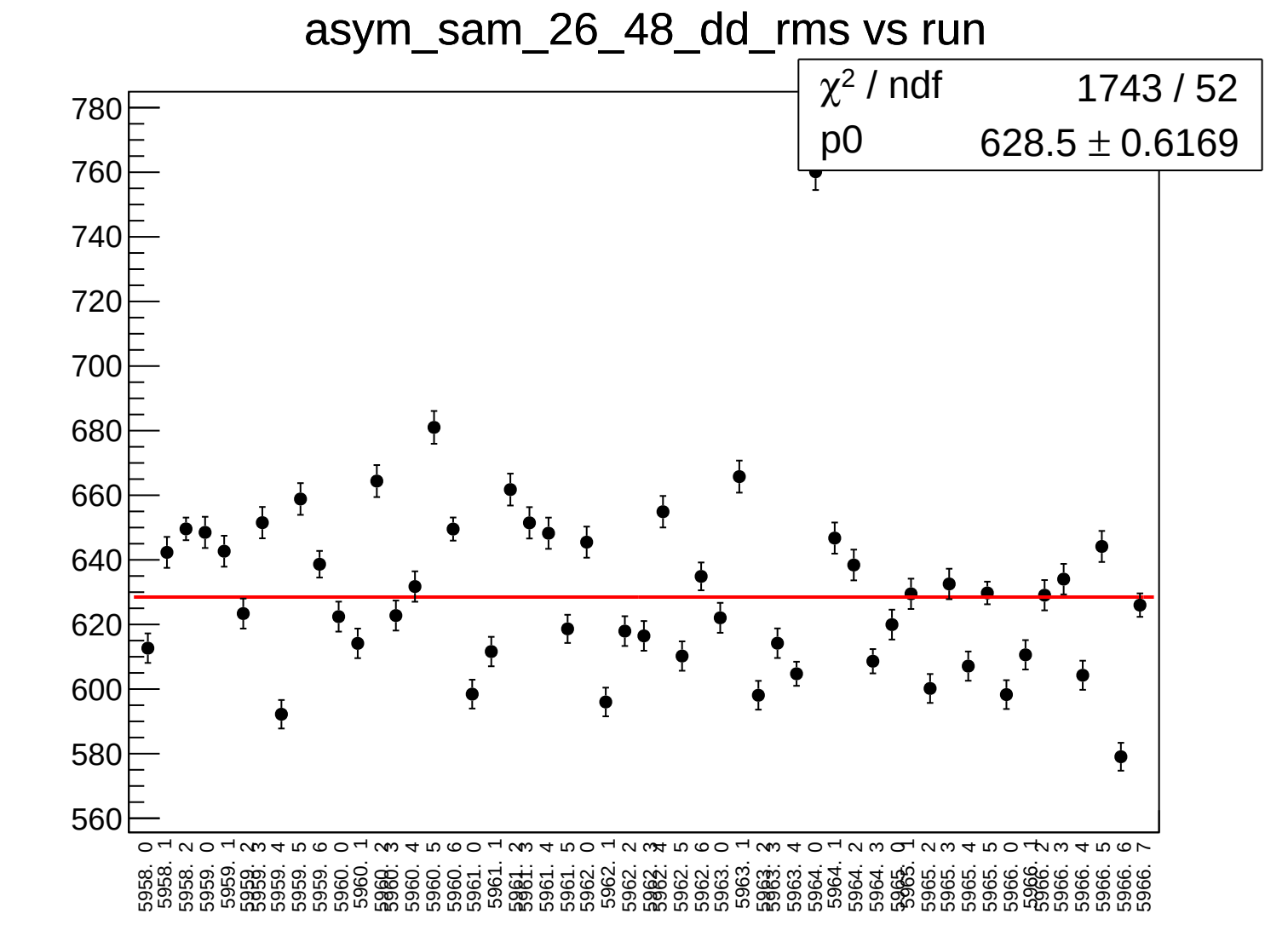

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 51.12 / 52
p0 −464.4 ± 855.5
pull
Entries 53
Mean 1093
Std Dev 1068

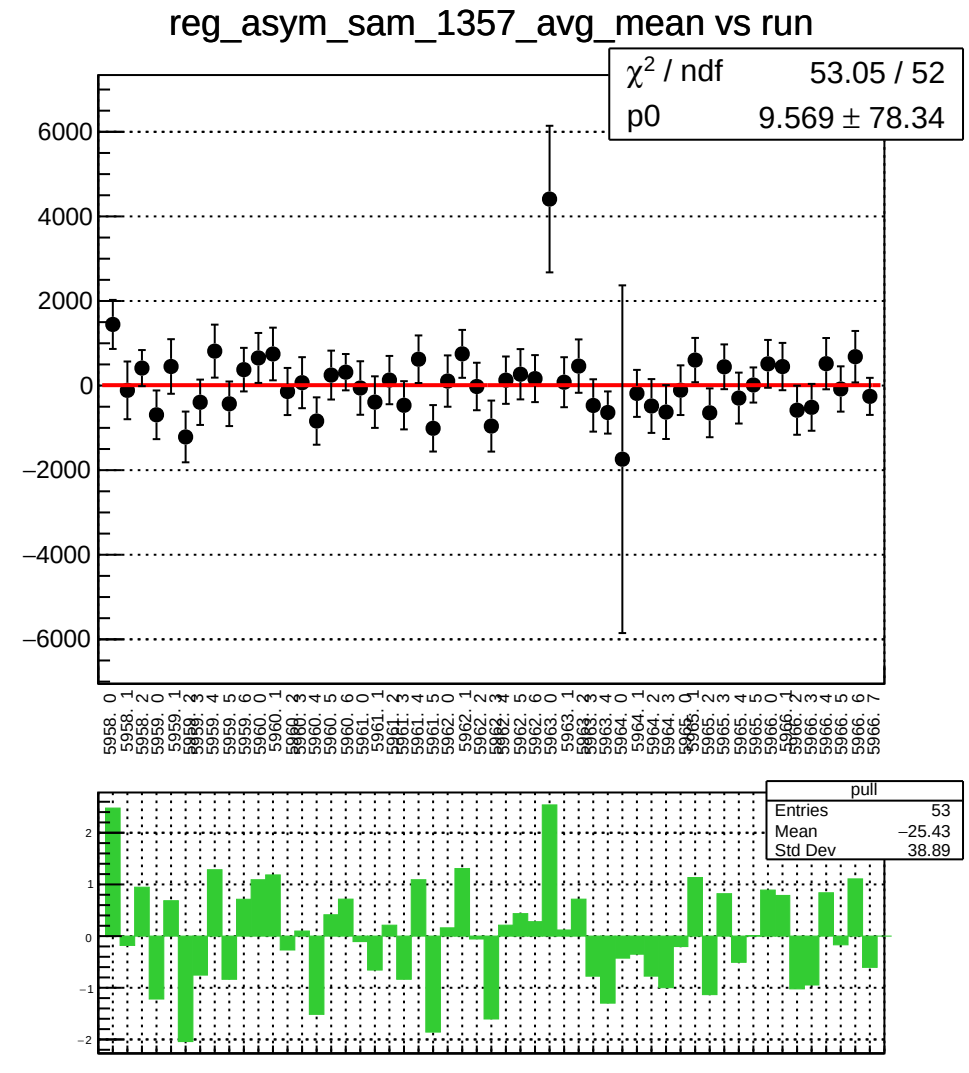

pull1D
Entries 53
Mean 0.002816
Std Dev 0.9821

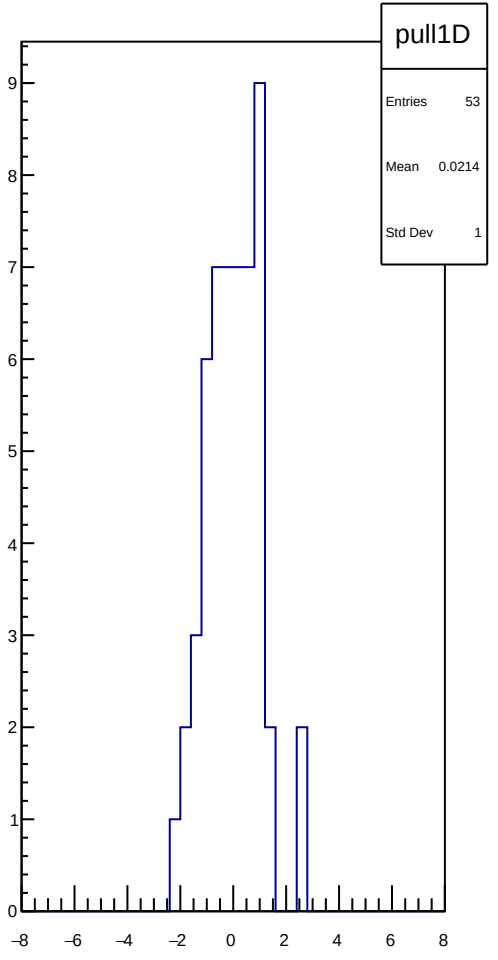

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1338 / 52
p0 616.5 ± 0.6049
680
660
640
620
600
580
560
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

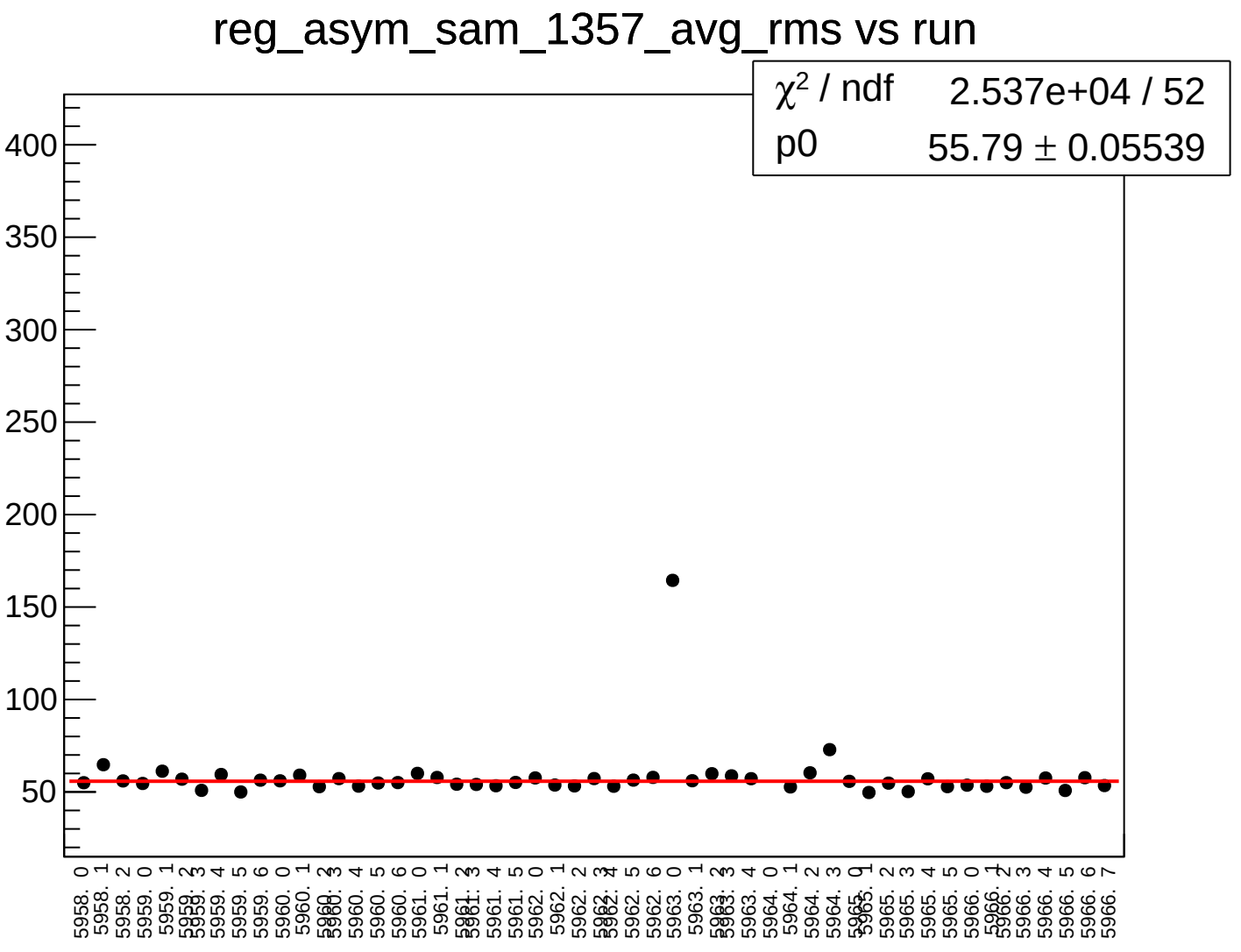

asym_sam_26_48_dd_mean vs run
χ² / ndf 55.22 / 52
p0 210.3 ± 872.4
pull
Entries 53
Mean 865.9
Std Dev 839.2

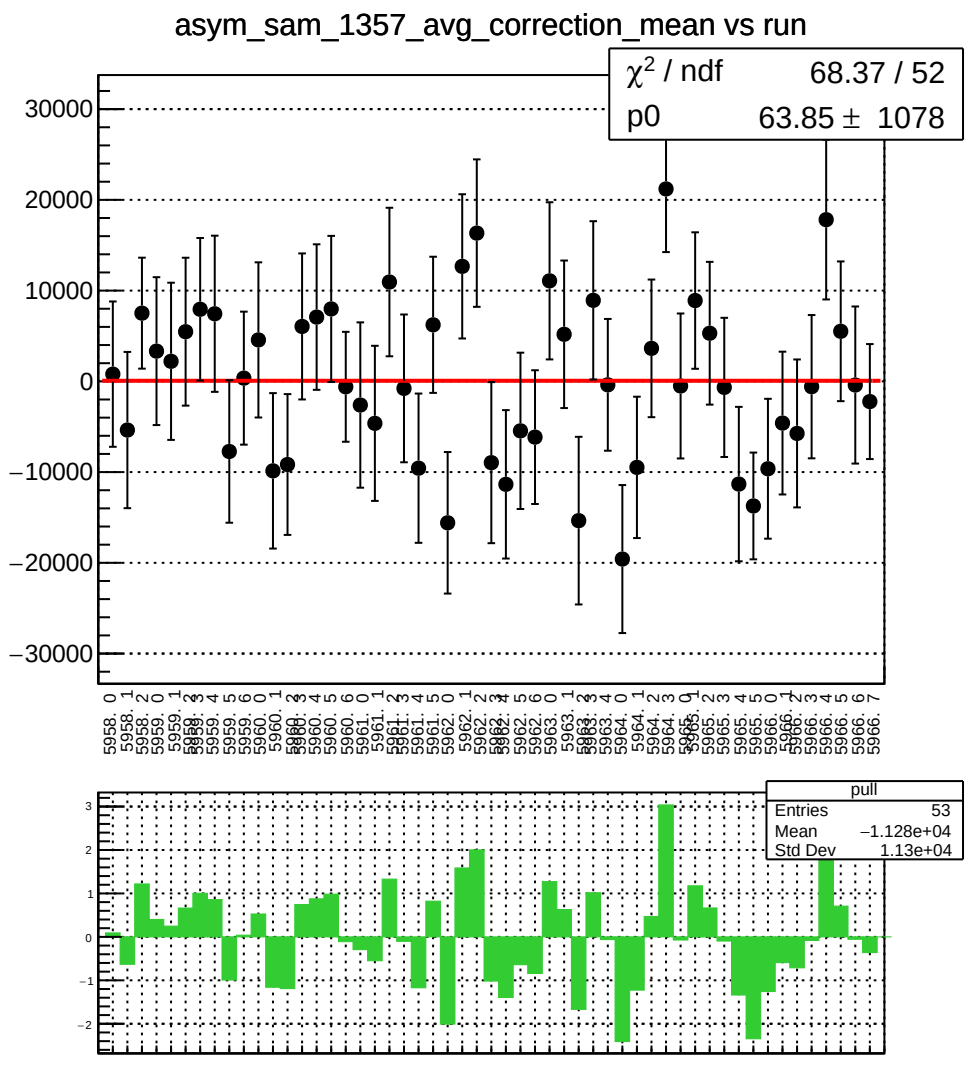

pull1D
Entries 53
Mean −0.003105
Std Dev 1.021

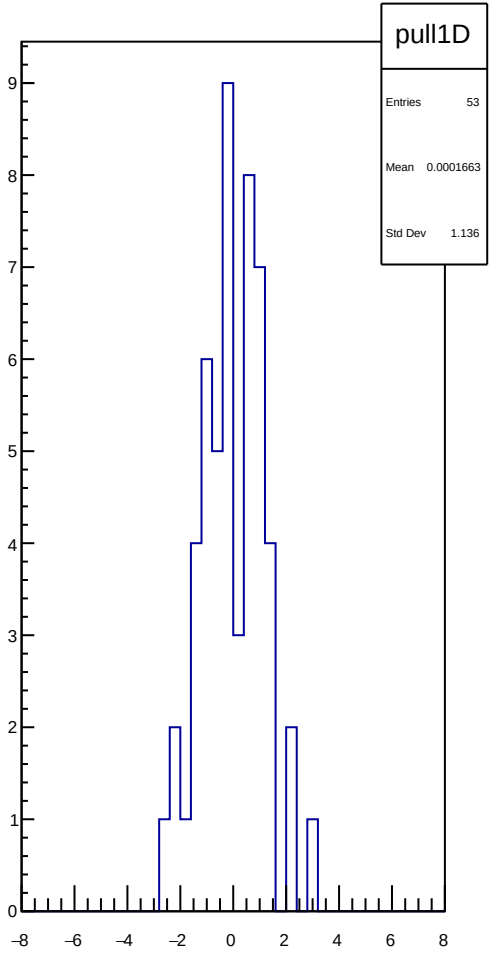

asym_sam_26_48_dd_rms vs run
χ² / ndf 1743 / 52
p0 628.5 ± 0.6169
780
760
740
720
700
680
660
640
620
600
580
560

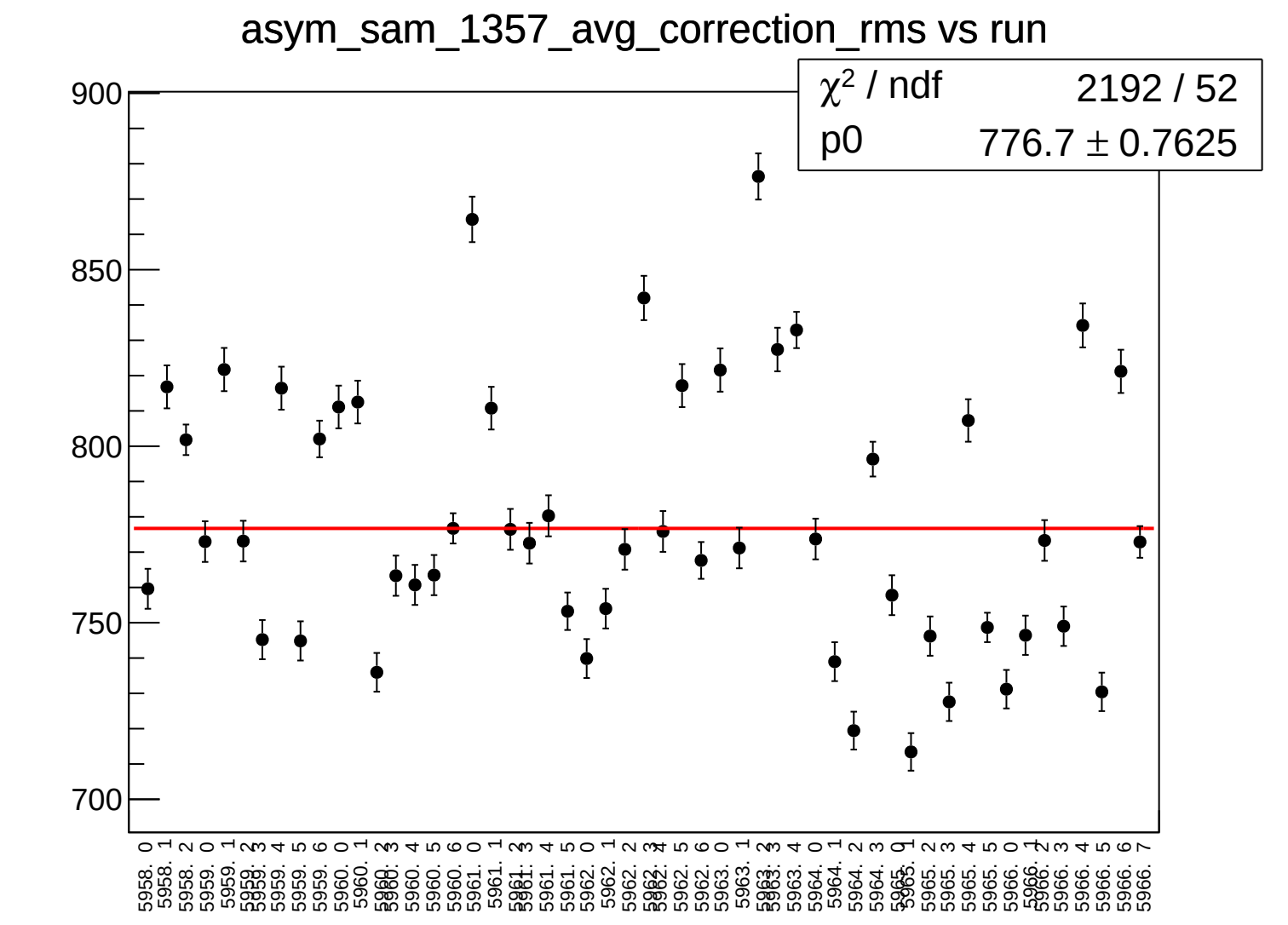

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 53.05 / 52
p0 9.569 ± 78.34
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 53
Mean −25.43
Std Dev 38.89
2
1
0
−1
−2

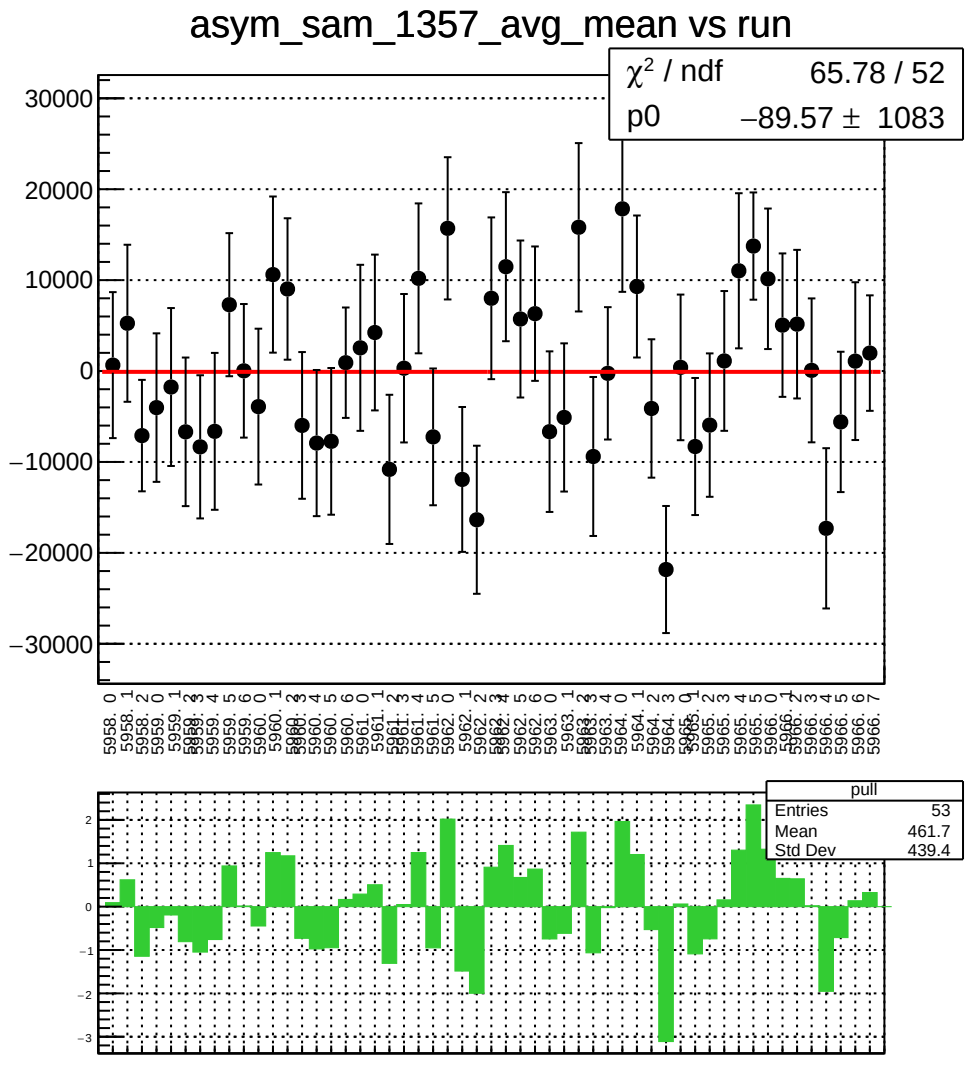

pull1D
Entries 53
Mean 0.0214
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

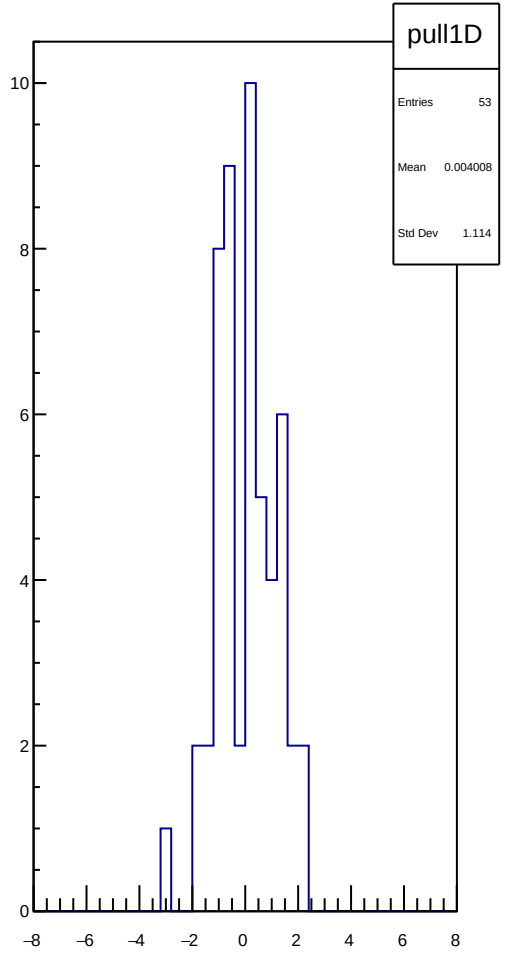

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2.537e+04 / 52
p0 55.79 ± 0.05539
400
350
300
250
200
150
100
50

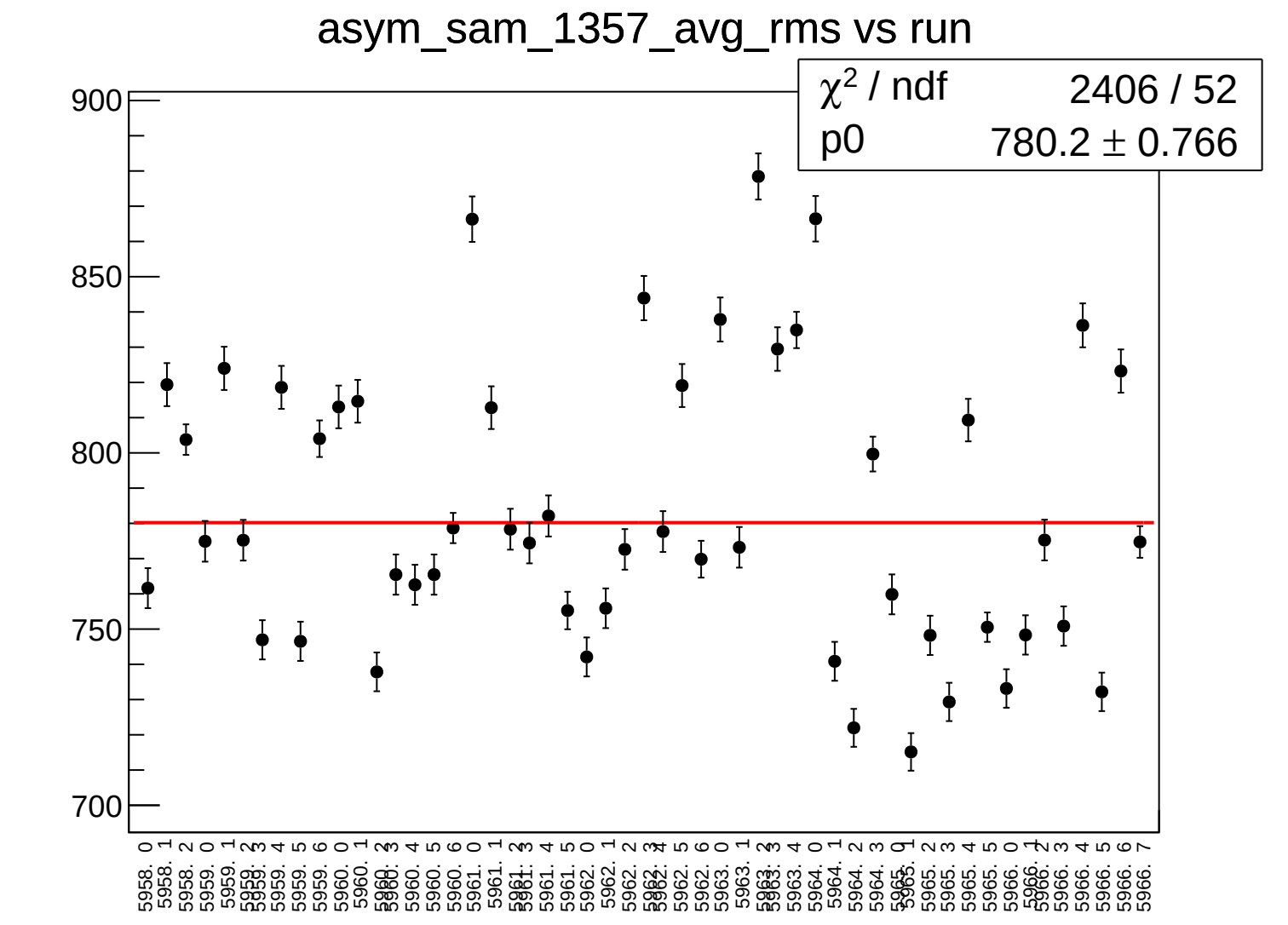

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 68.37 / 52
p0 63.85 ± 1078
pull
Entries 53
Mean −1.128e+04
Std Dev 1.13e+04

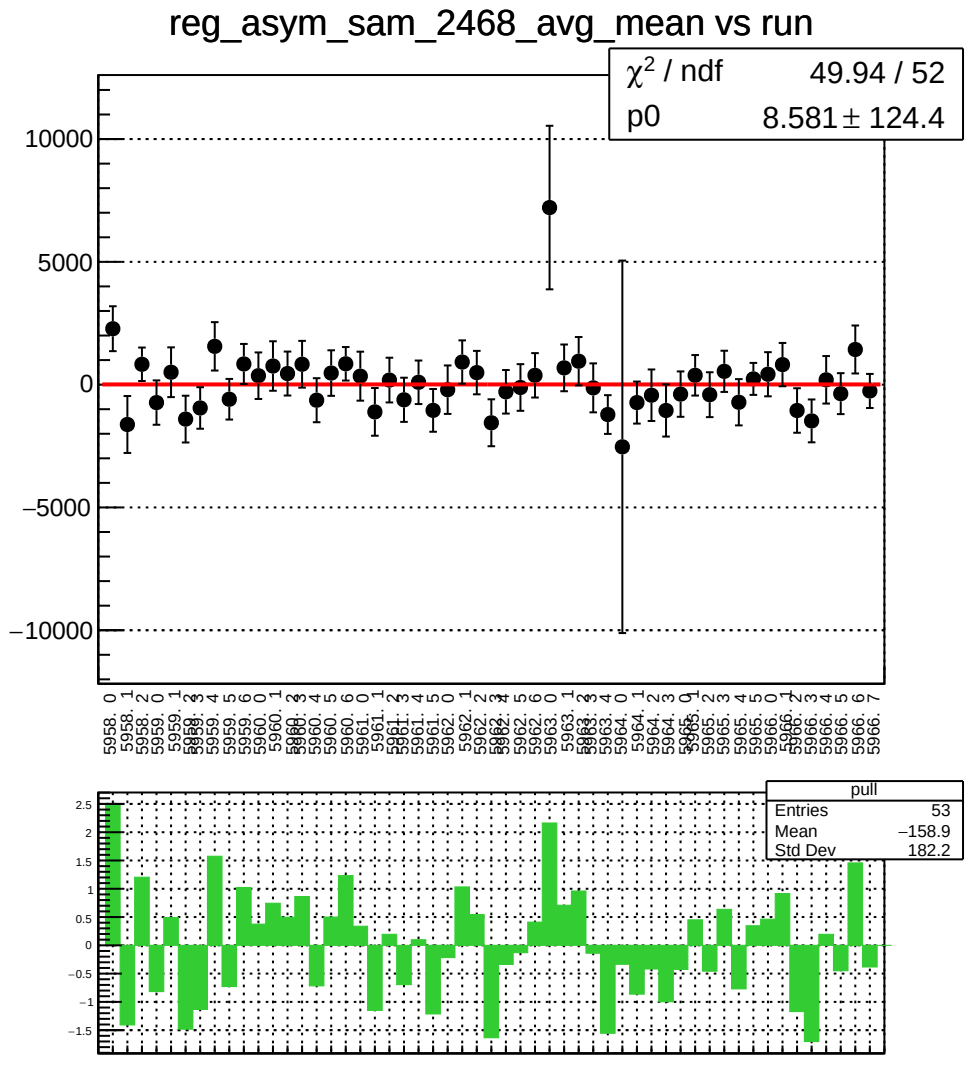

pull1D
Entries 53
Mean 0.0001663
Std Dev 1.136

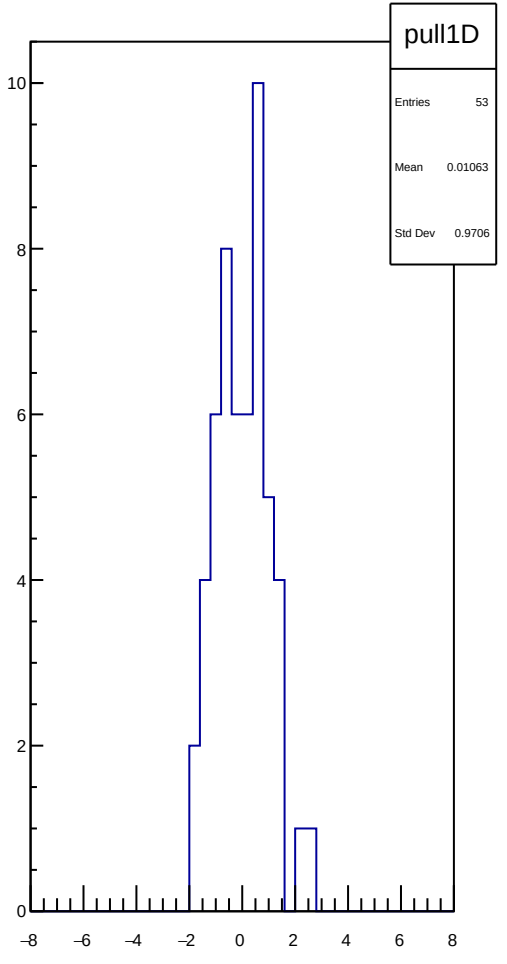

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 2192 / 52
p0 776.7 ± 0.7625
900
850
800
750
700
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

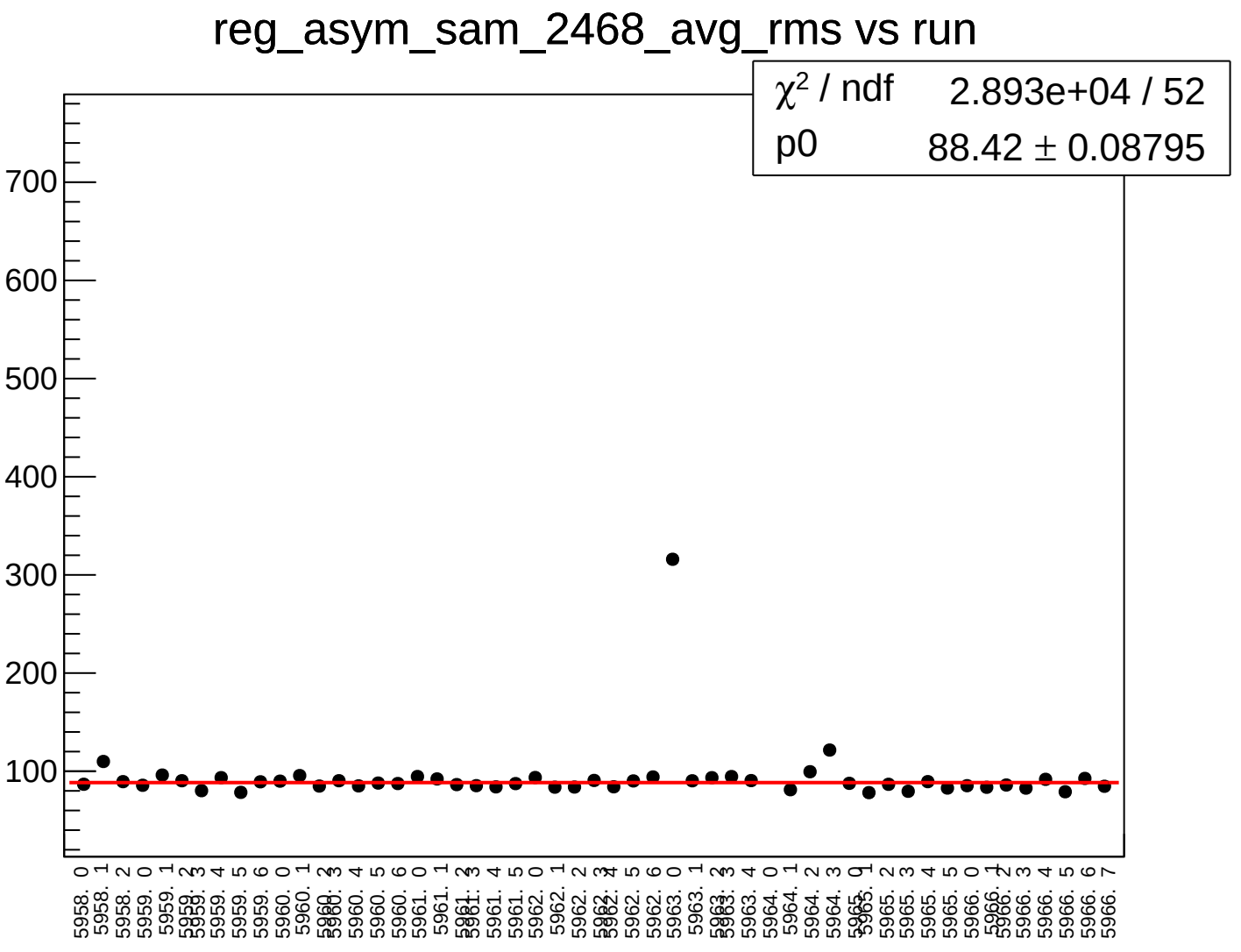

asym_sam_1357_avg_mean vs run
χ² / ndf 65.78 / 52
p0 −89.57 ± 1083
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 53
Mean 461.7
Std Dev 439.4
2
1
0
−1
−2
−3

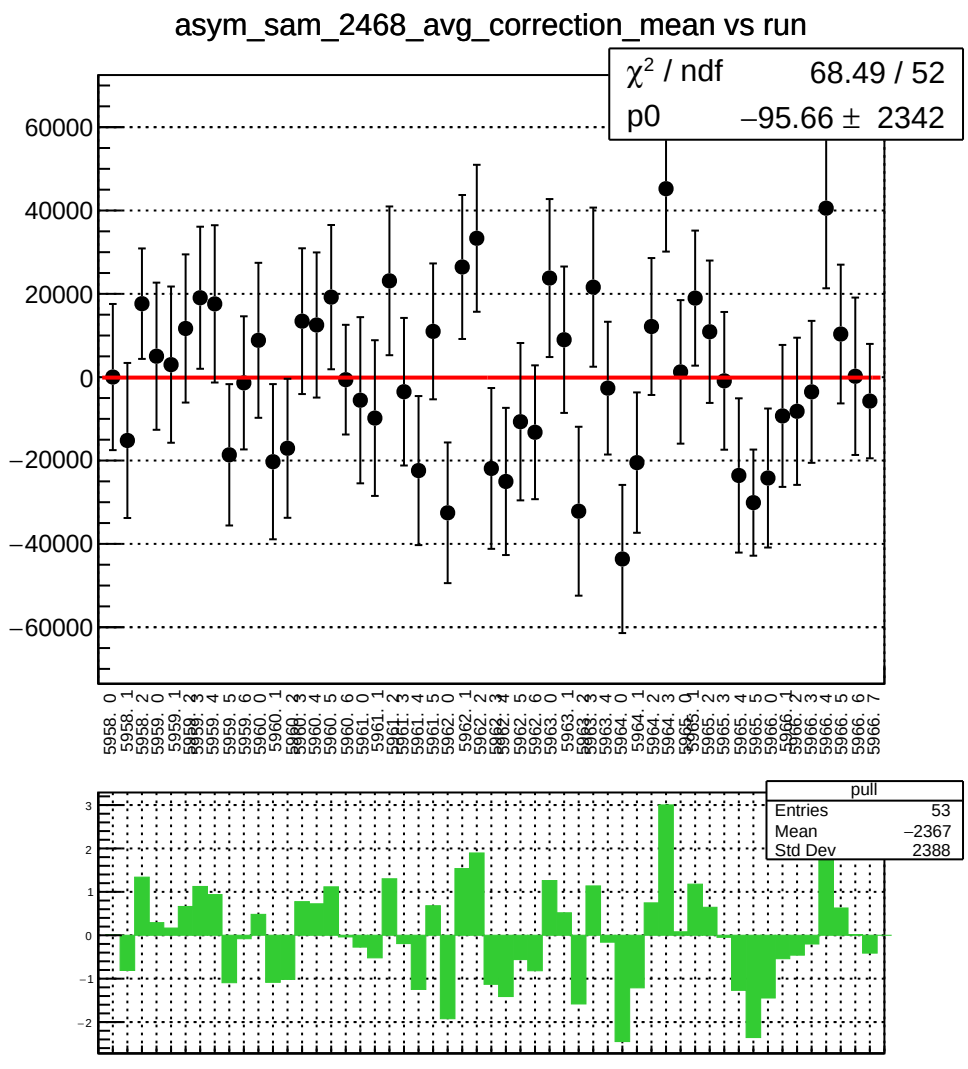

pull1D
Entries 53
Mean 0.004008
Std Dev 1.114
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

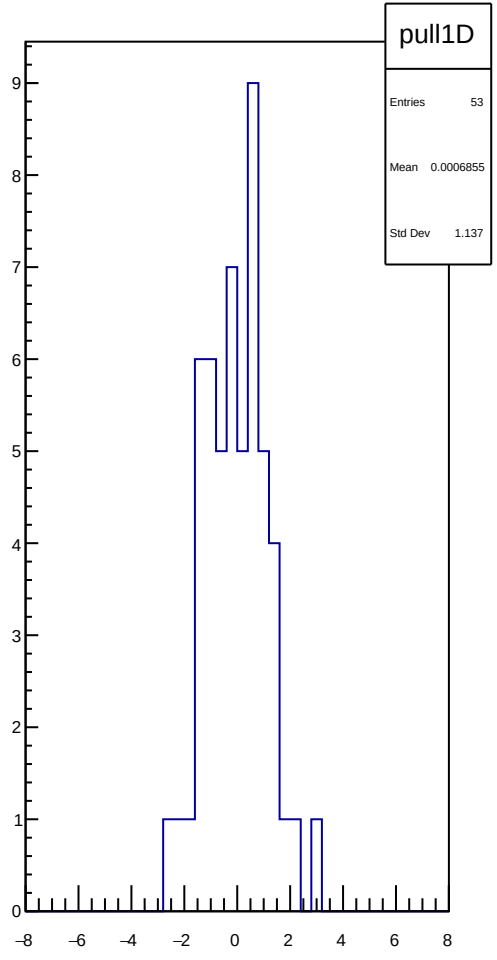

asym_sam_1357_avg_rms vs run
χ² / ndf 2406 / 52
p0 780.2 ± 0.766
900
850
800
750
700
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

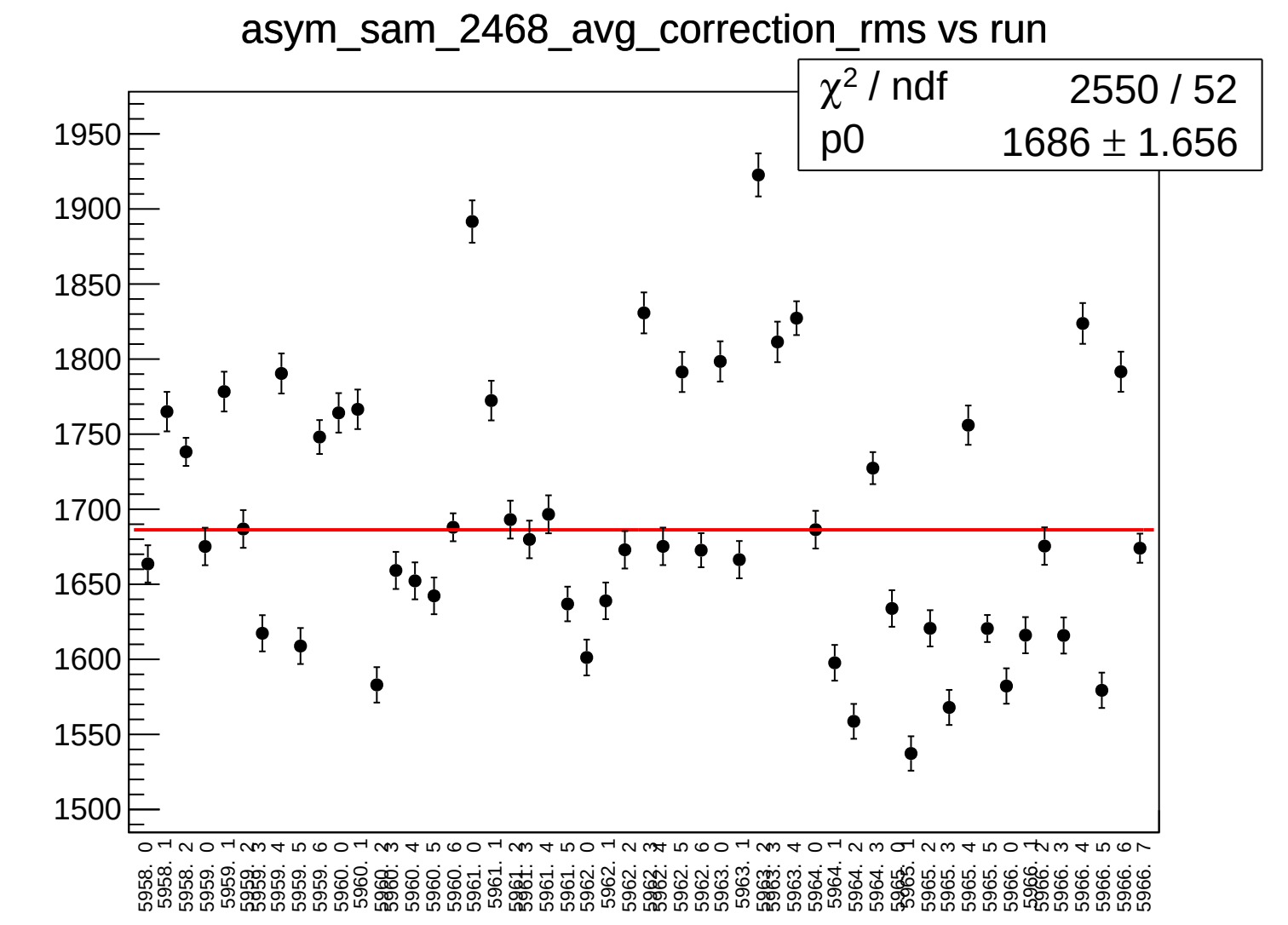

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 49.94 / 52
p0 8.581 ± 124.4
10000
5000
0
−5000
−10000
pull
Entries 53
Mean −158.9
Std Dev 182.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

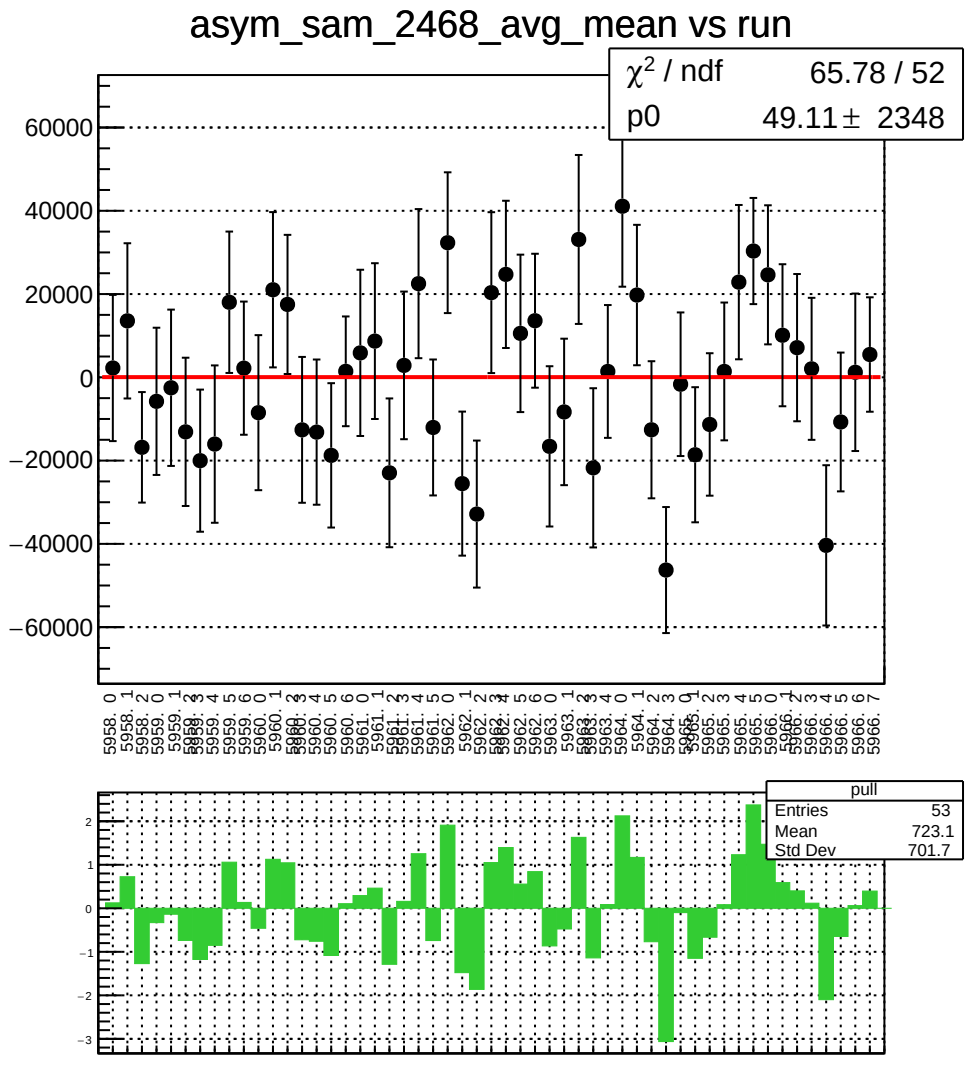

pull1D
Entries 53
Mean 0.01063
Std Dev 0.9706
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

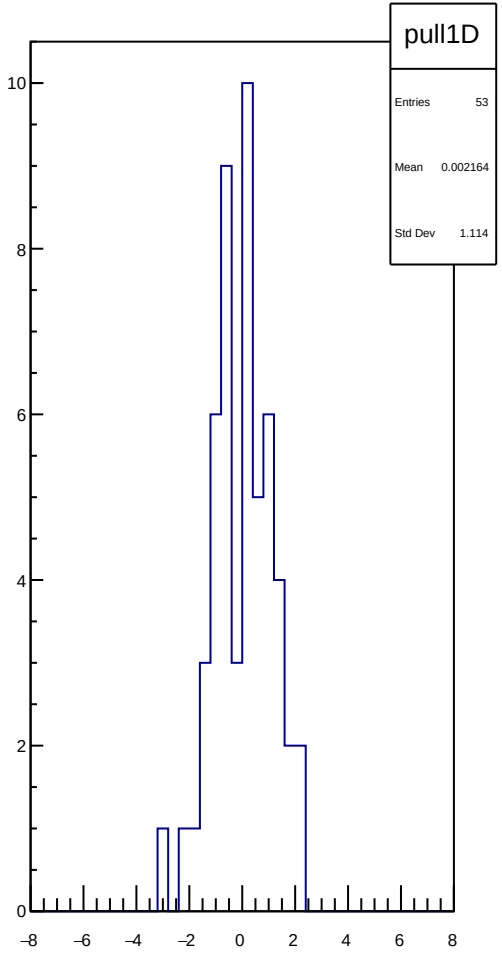

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.893e+04 / 52
p0 88.42 ± 0.08795
700
600
500
400
300
200
100
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 5
5962. 6
5963. 0
5963. 1
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

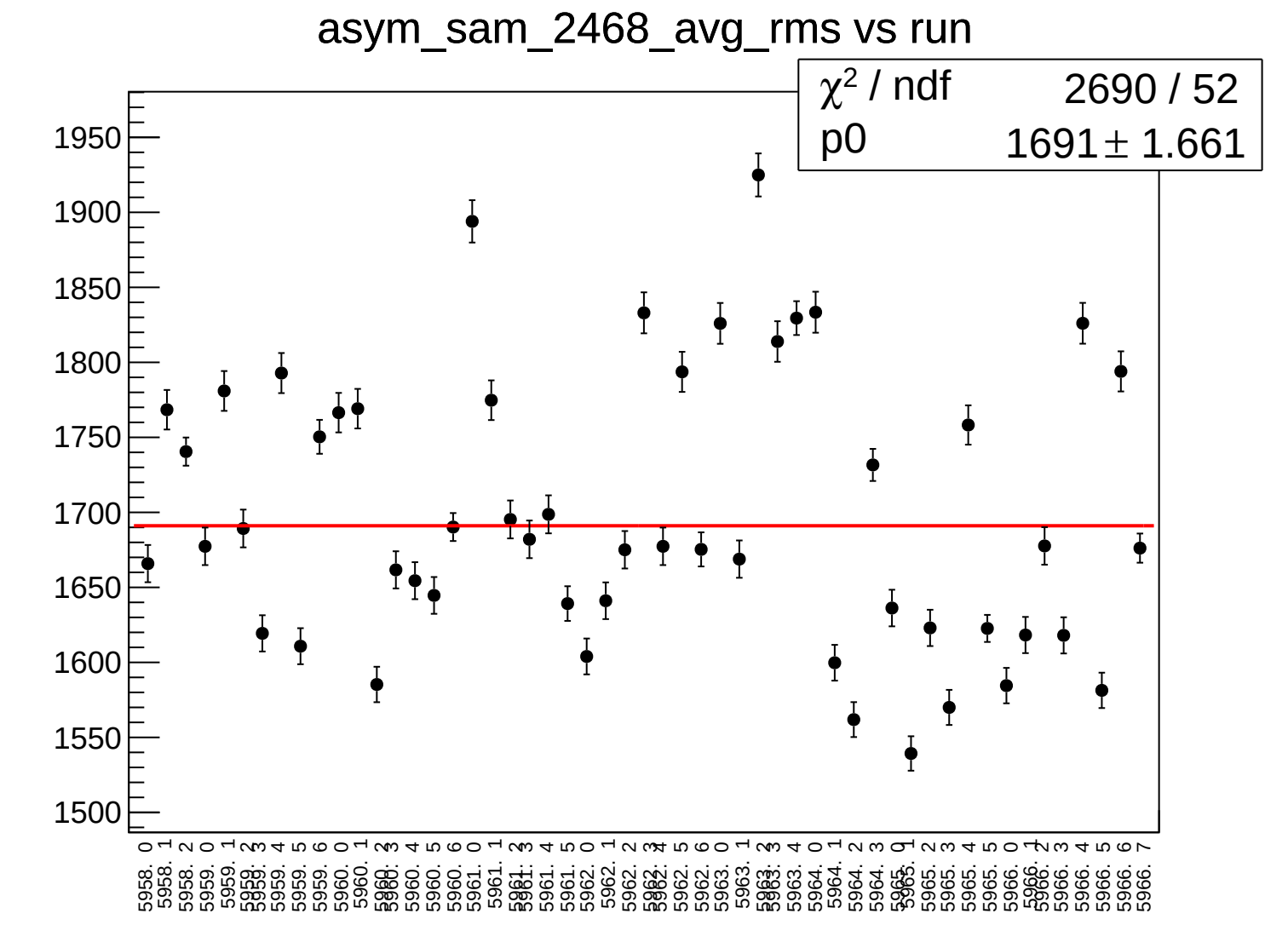

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 68.49 / 52
p0 −95.66 ± 2342
pull
Entries 53
Mean −2367
Std Dev 2388

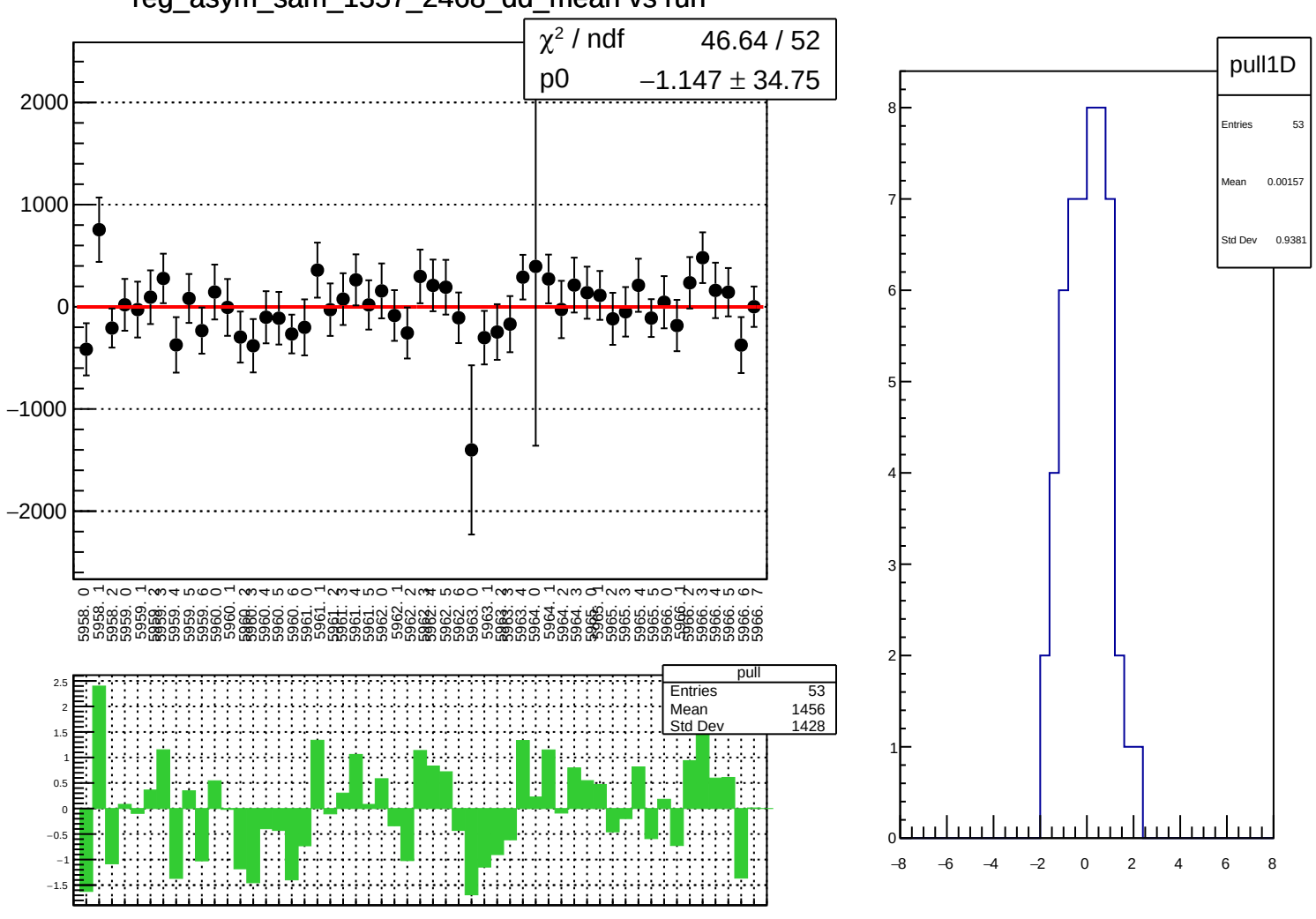

pull1D
Entries 53
Mean 0.0006855
Std Dev 1.137

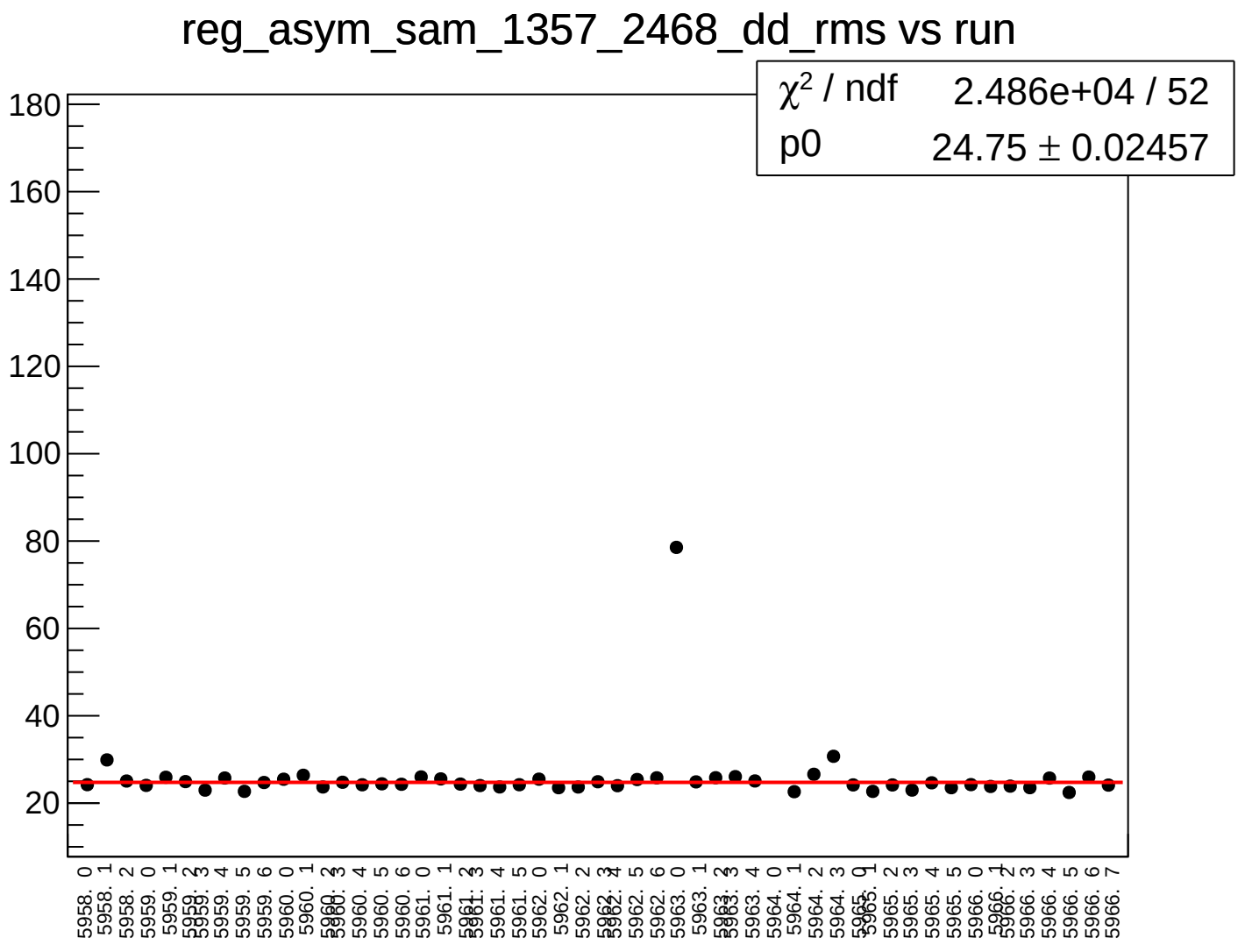

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2550 / 52
p0 1686 ± 1.656
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

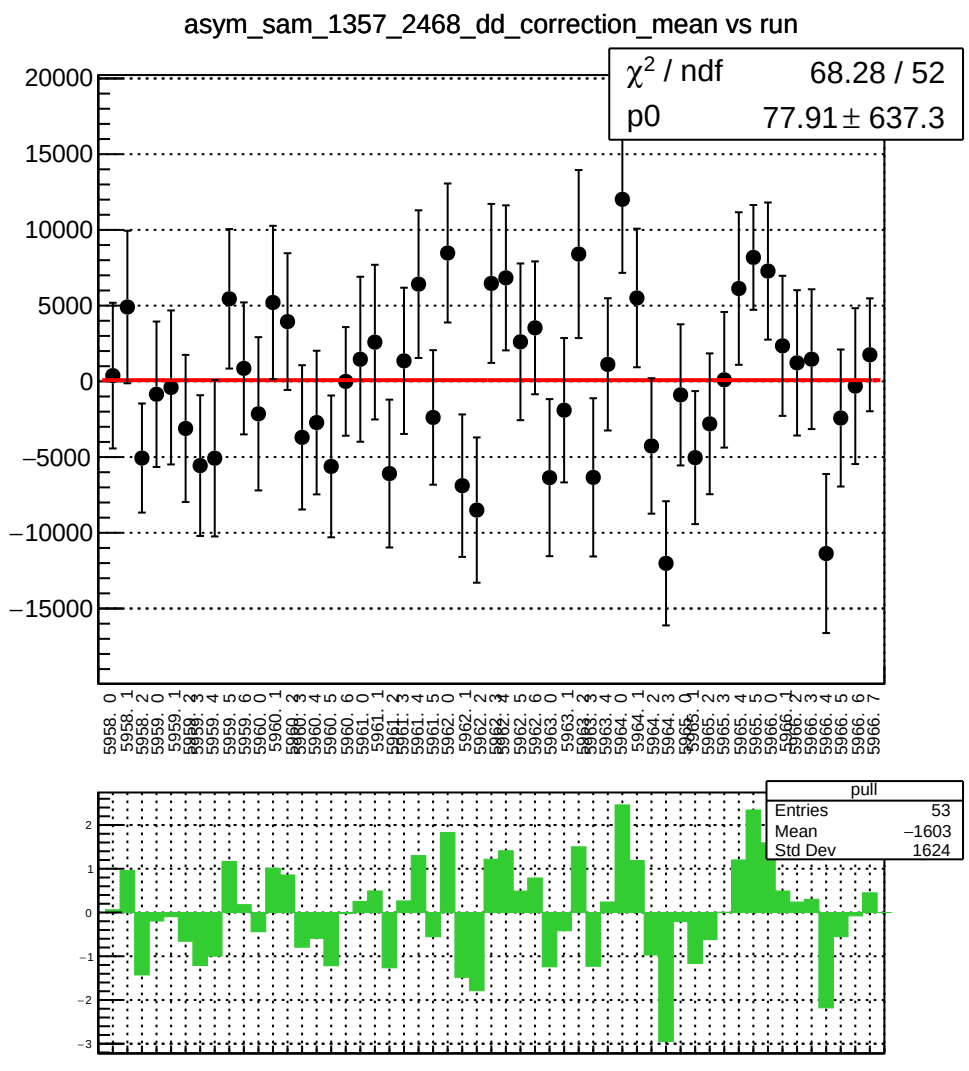

asym_sam_2468_avg_mean vs run
χ² / ndf 65.78 / 52
p0 49.11 ± 2348
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 53
Mean 723.1
Std Dev 701.7
2
1
0
−1
−2
−3

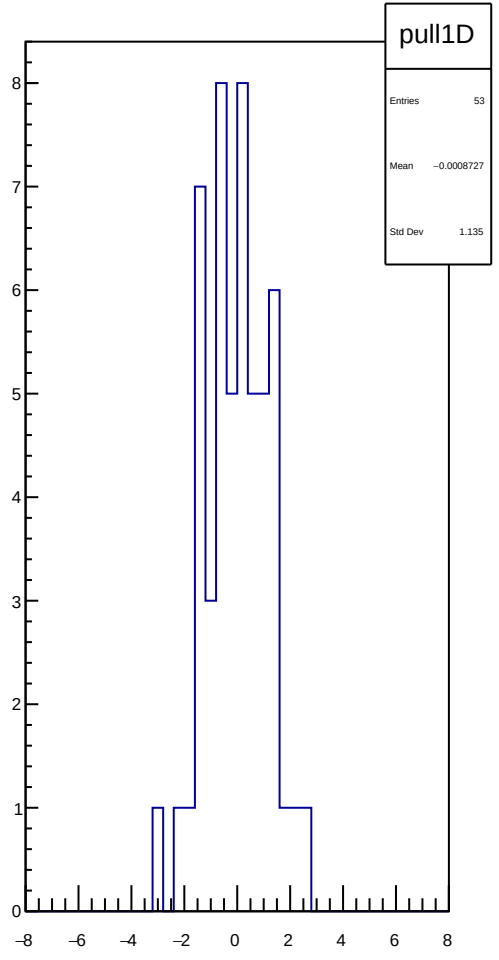

pull1D
Entries 53
Mean 0.002164
Std Dev 1.114
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

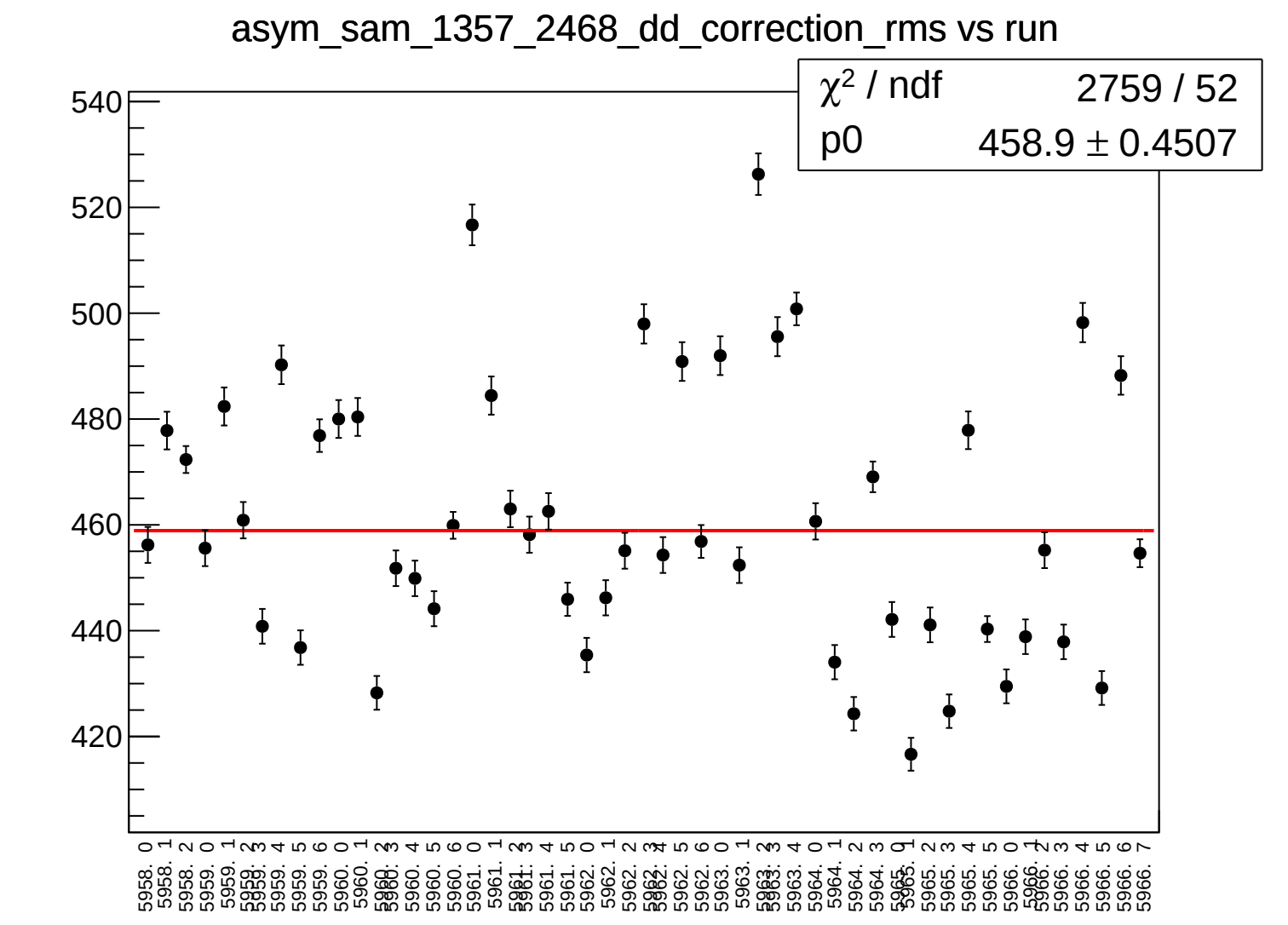

asym_sam_2468_avg_rms vs run
χ² / ndf 2690 / 52
p0 1691 ± 1.661
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

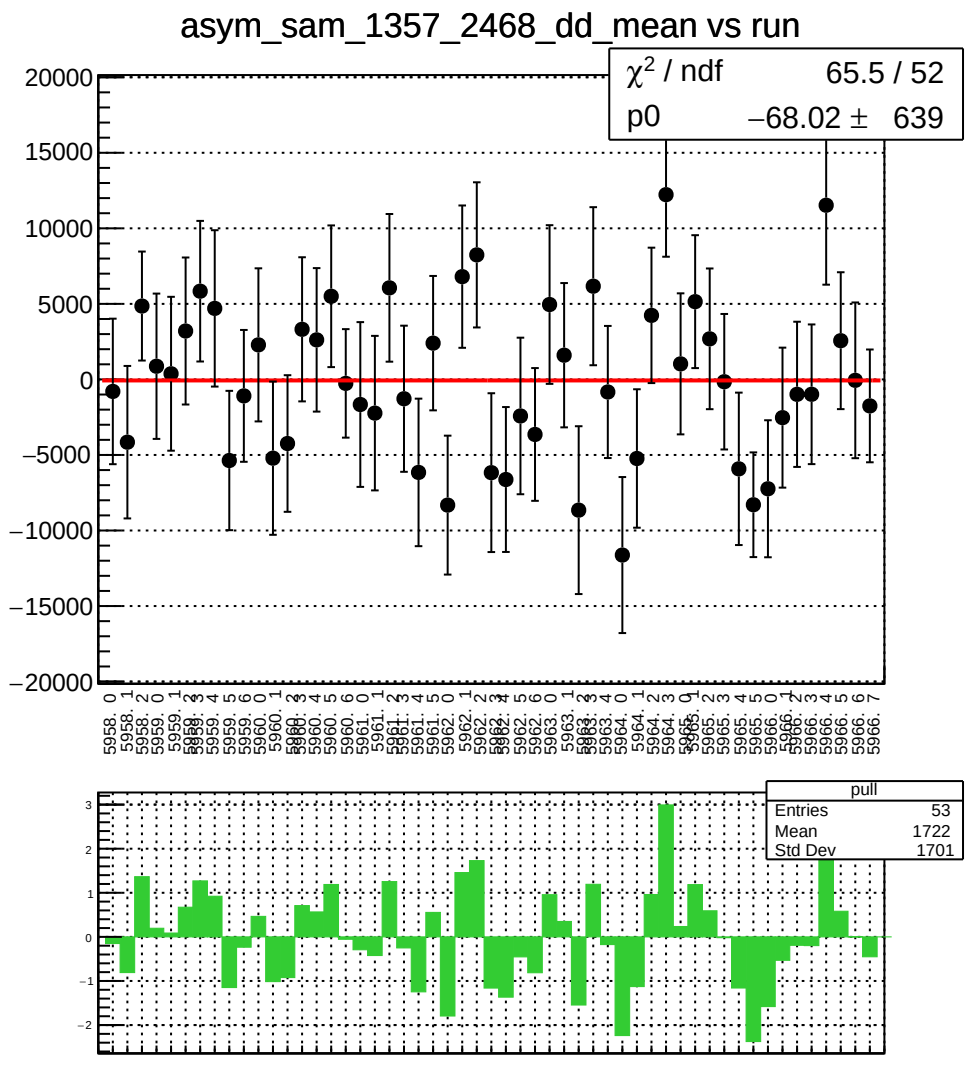

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 46.64 / 52
p0 −1.147 ± 34.75
pull
Entries 53
Mean 1456
Std Dev 1428
pull1D
Entries 53
Mean 0.00157
Std Dev 0.9381

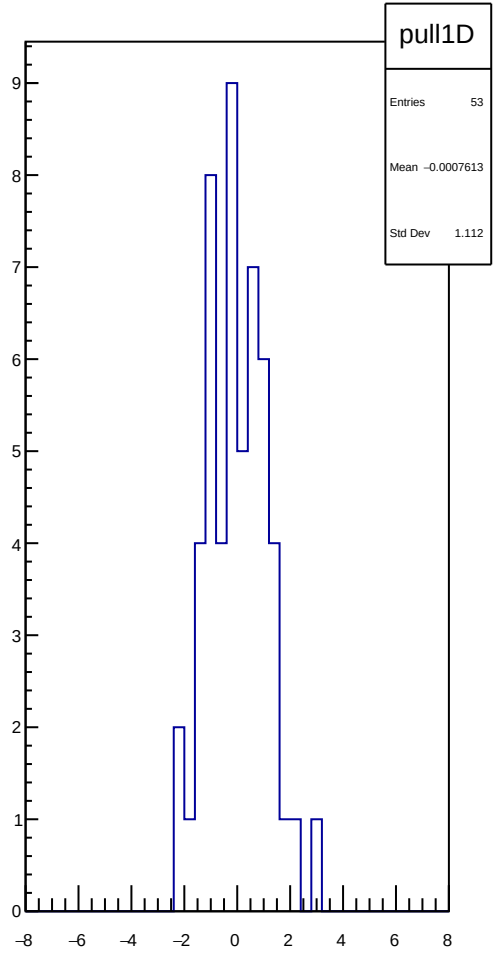

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.486e+04 / 52
p0 24.75 ± 0.02457
180
160
140
120
100
80
60
40
20

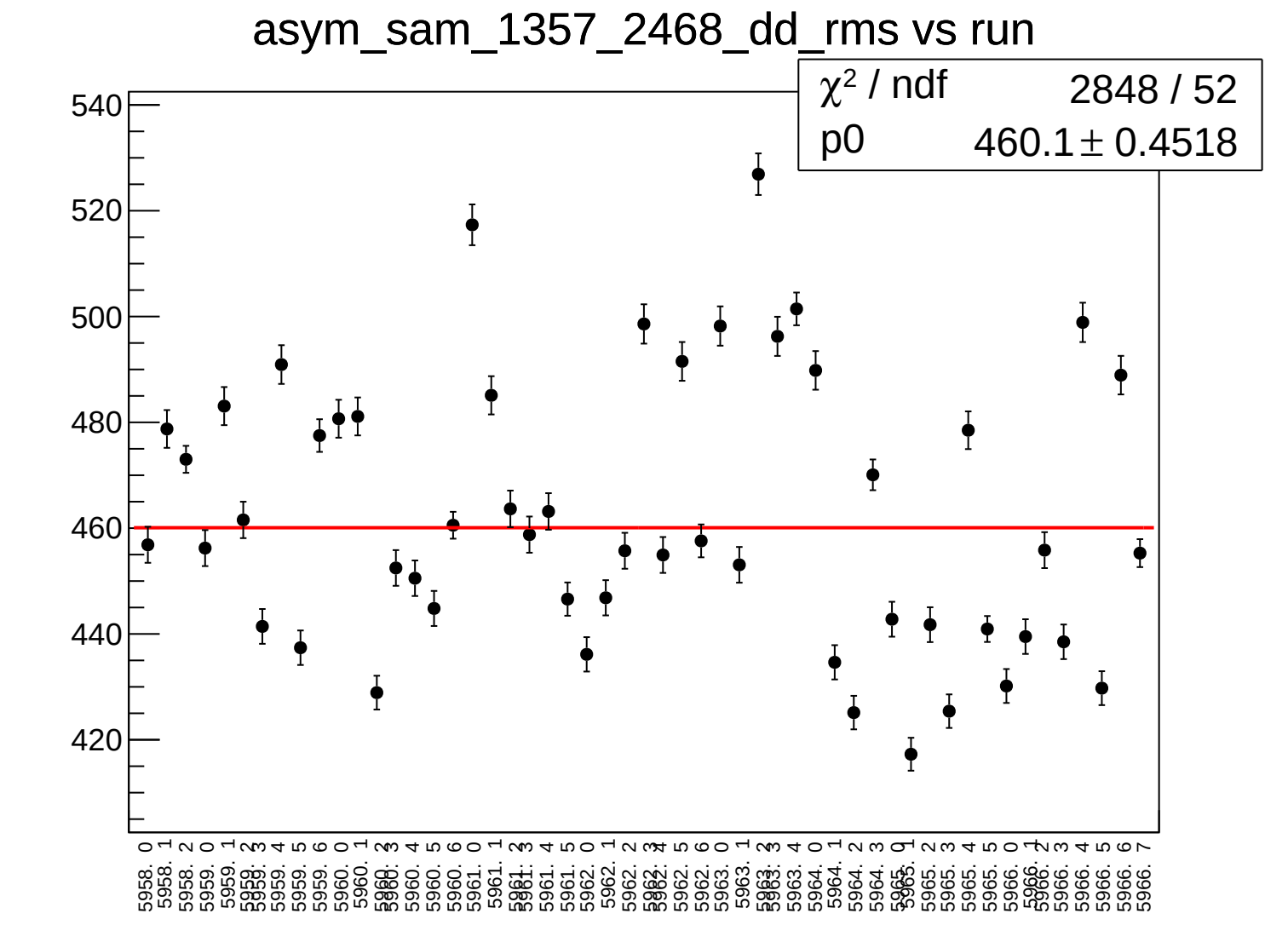

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 68.28 / 52
p0 77.91 ± 637.3
pull
Entries 53
Mean −1603
Std Dev 1624

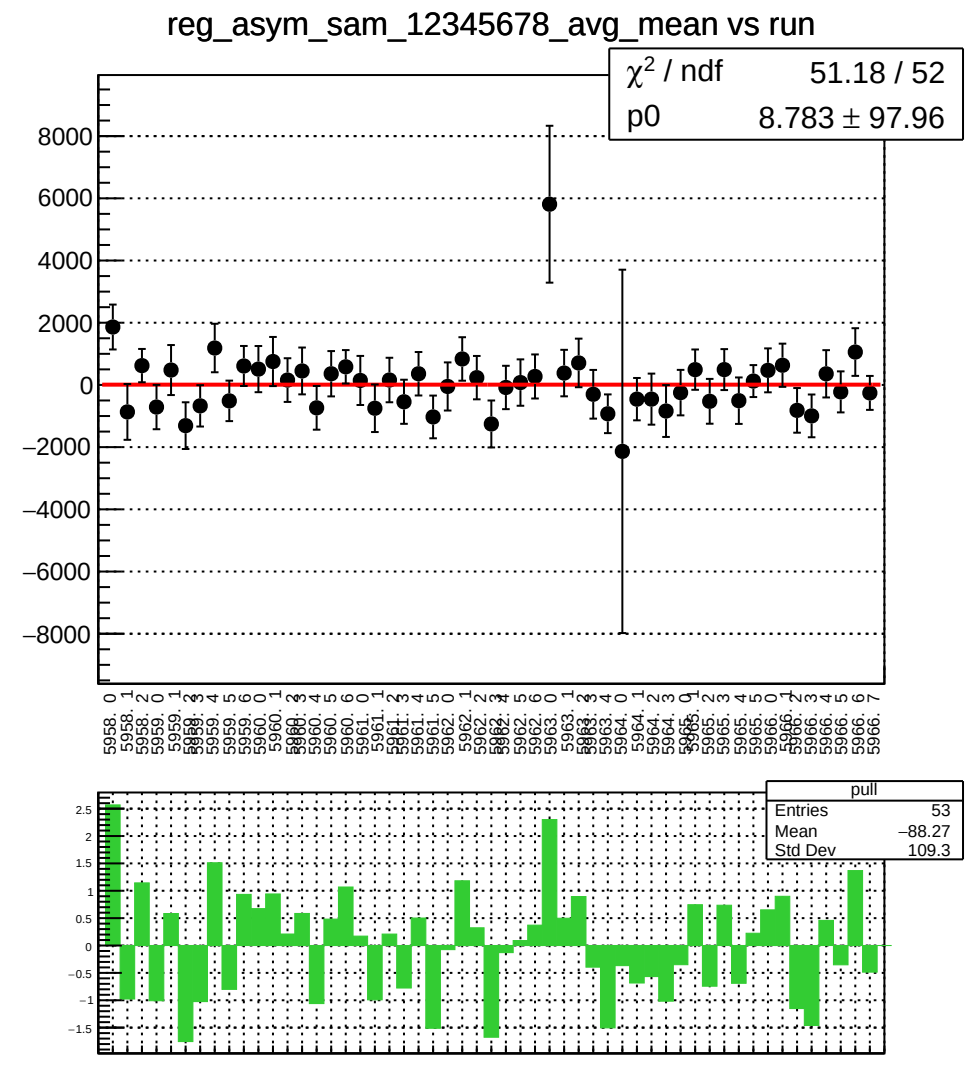

pull1D
Entries 53
Mean −0.0008727
Std Dev 1.135

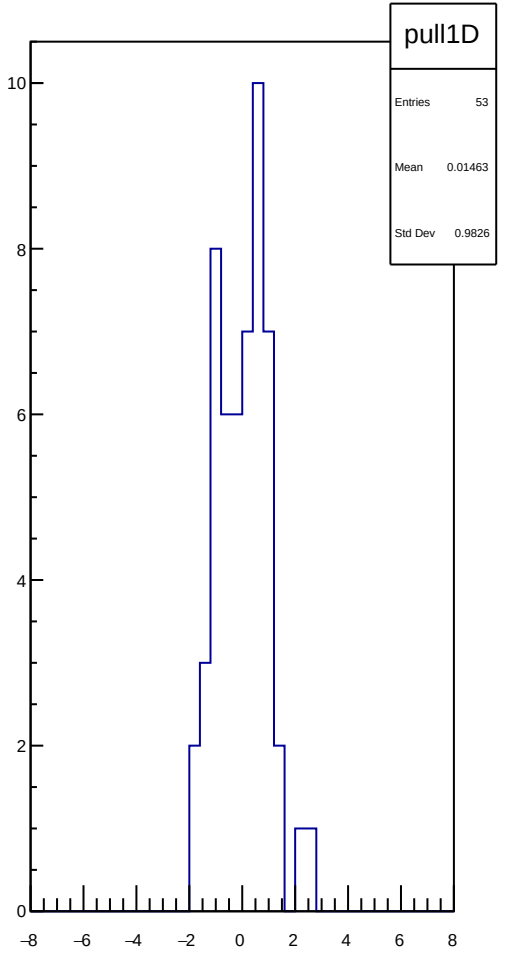

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 2759 / 52
p0 458.9 ± 0.4507
540
520
500
480
460
440
420

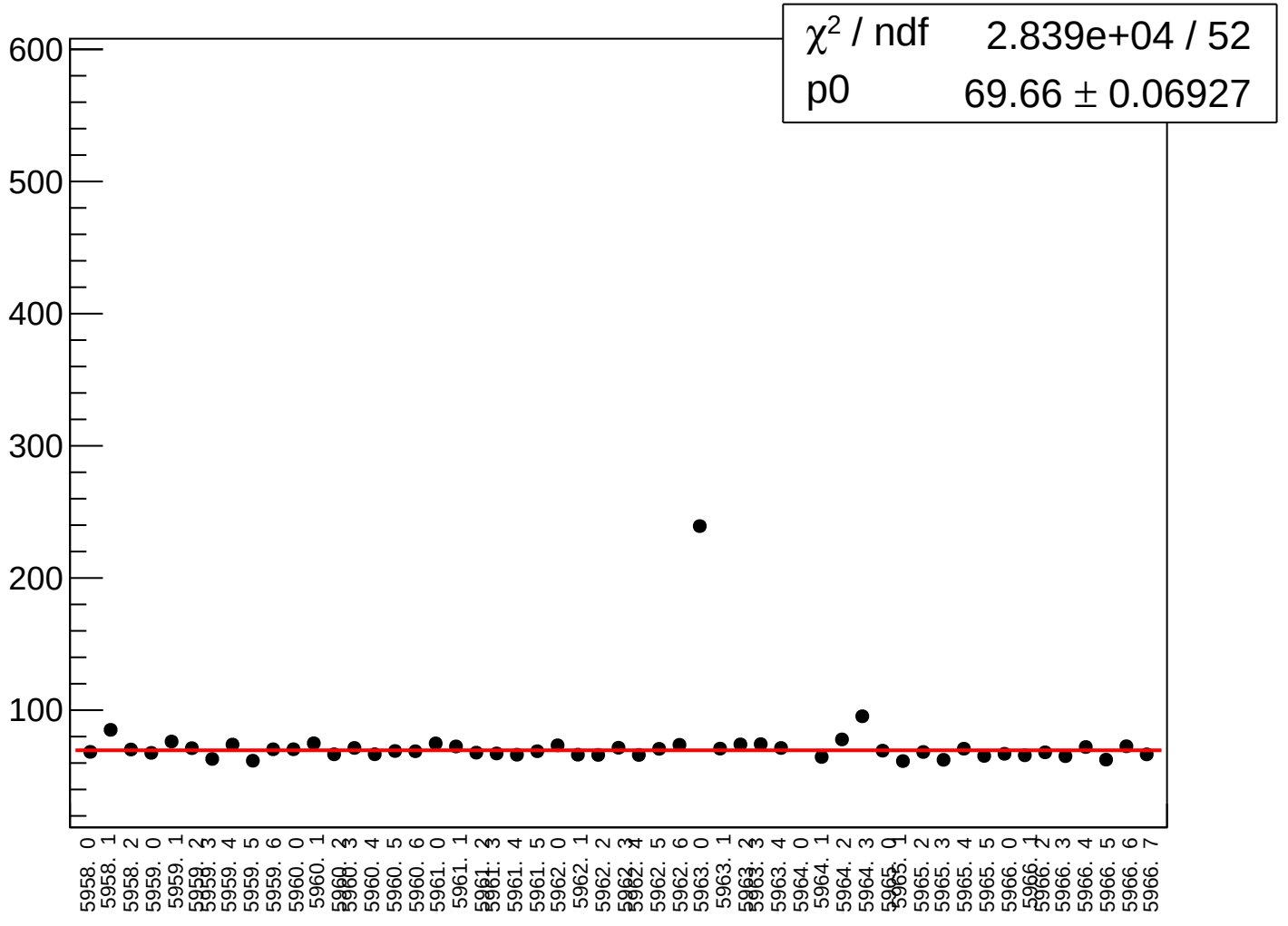

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 65.5 / 52
p0 −68.02 ± 639
pull
Entries 53
Mean 1722
Std Dev 1701

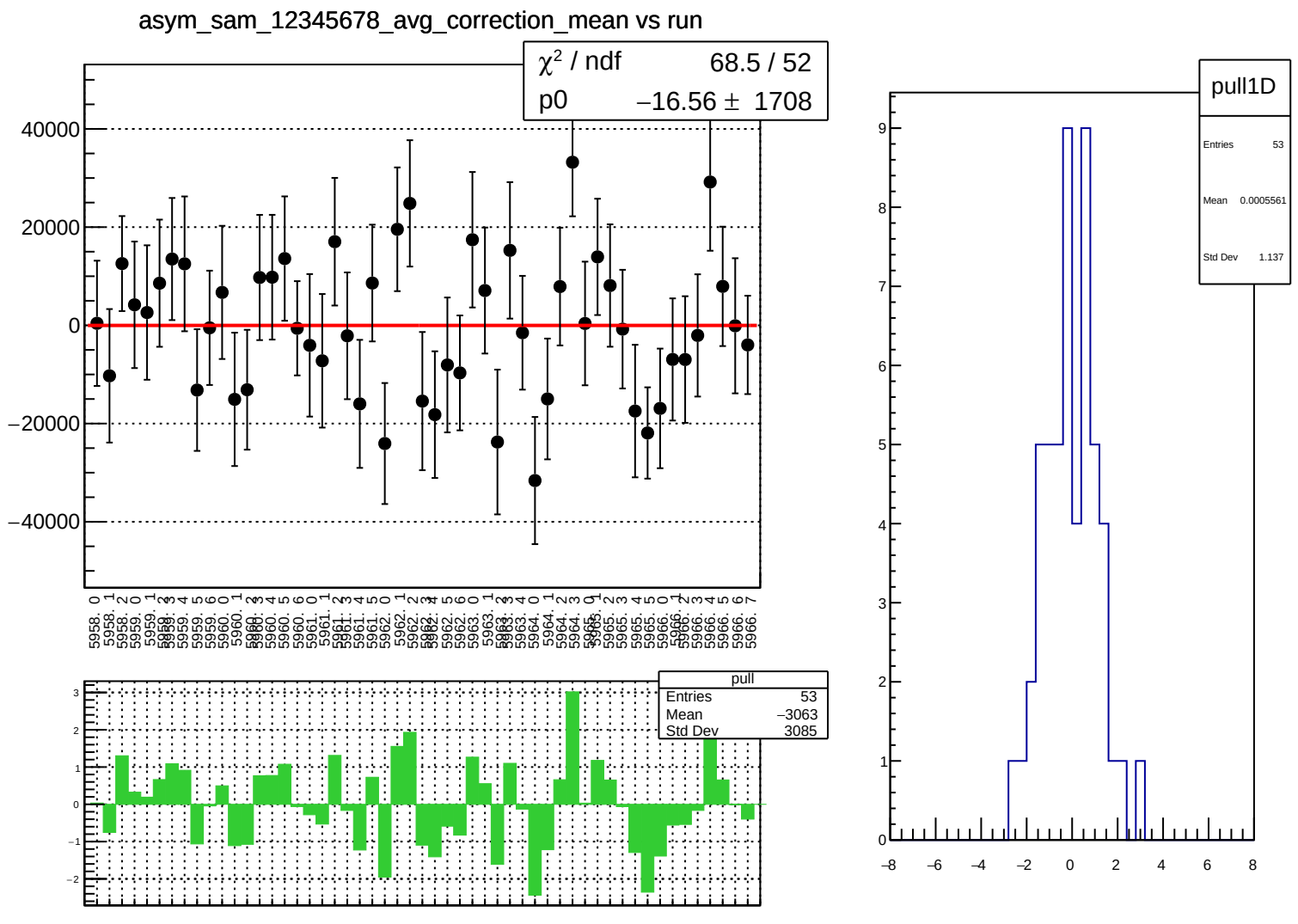

pull1D
Entries 53
Mean −0.0007613
Std Dev 1.112

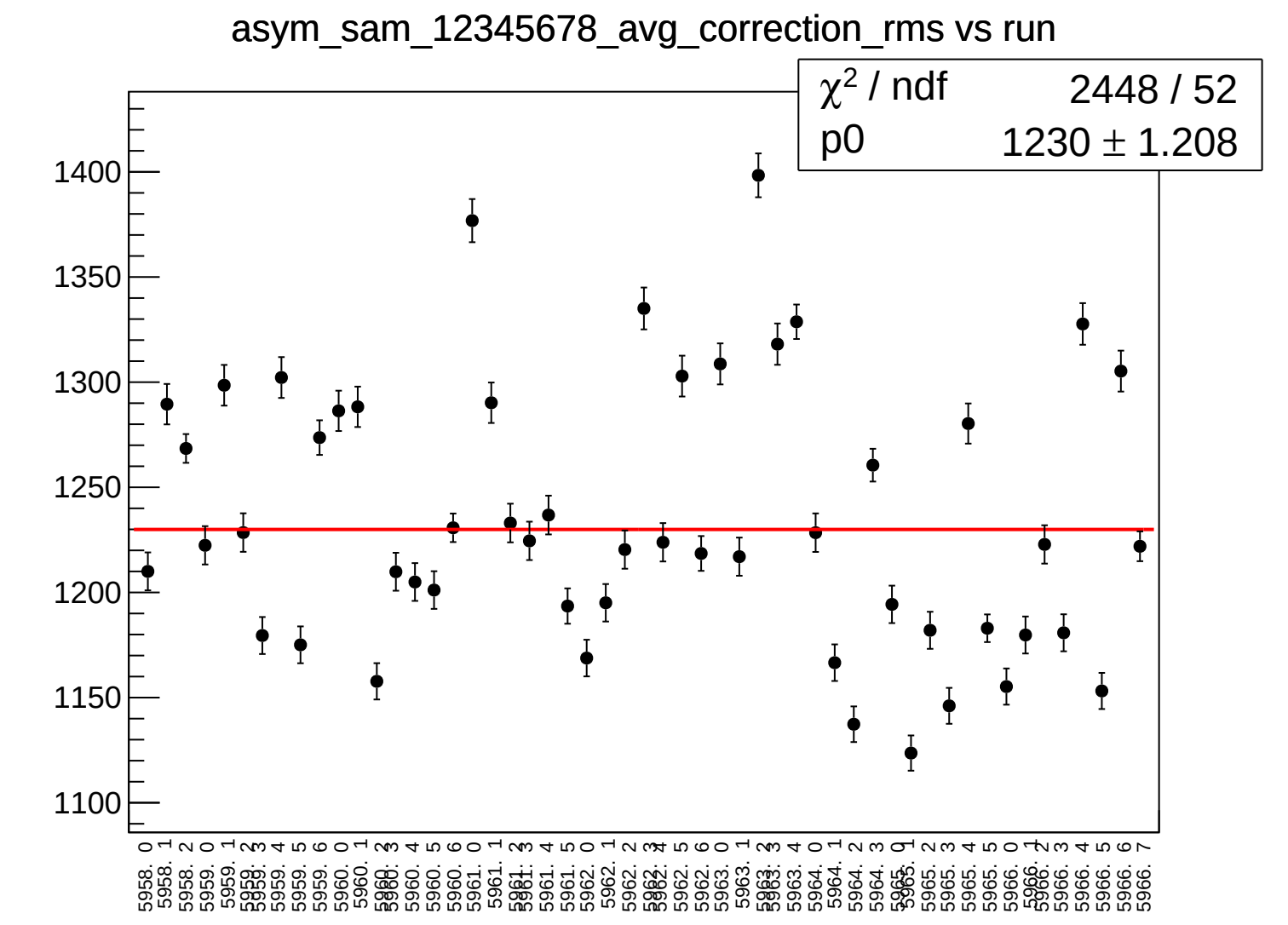

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2848 / 52
p0 460.1 ± 0.4518
540
520
500
480
460
440
420


reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 51.18 / 52
p0 8.783 ± 97.96
pull
Entries 53
Mean −88.27
Std Dev 109.3


pull1D
Entries 53
Mean 0.01463
Std Dev 0.9826


reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.839e+04 / 52
p0 69.66 ± 0.06927
600
500
400
300
200
100


asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 68.5 / 52
p0 −16.56 ± 1708
40000
20000
0
−20000
−40000
pull
Entries 53
Mean −3063
Std Dev 3085
3
2
1
0
−1
−2
pull1D
Entries 53
Mean 0.0005561
Std Dev 1.137
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2448 / 52
p0 1230 ± 1.208
1400
1350
1300
1250
1200
1150
1100
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
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5966. 0
5966. 1
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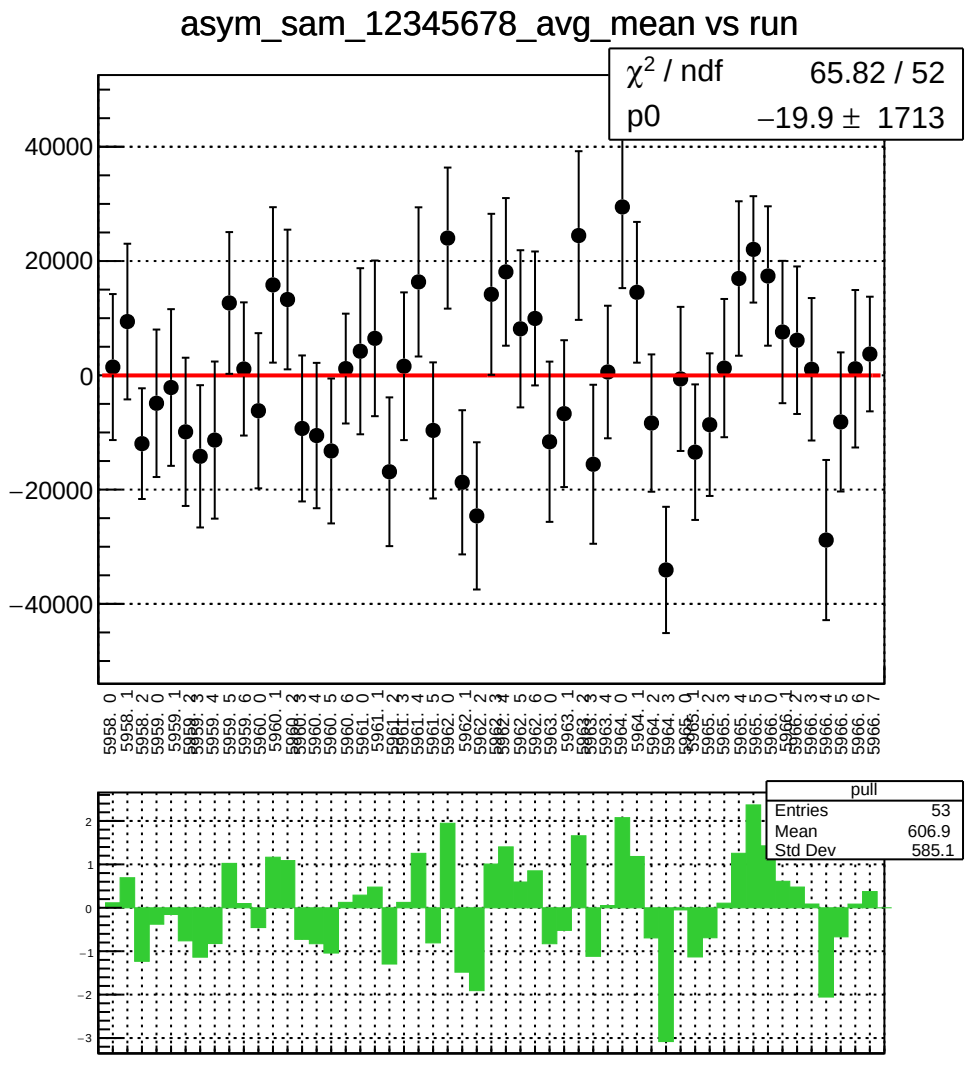
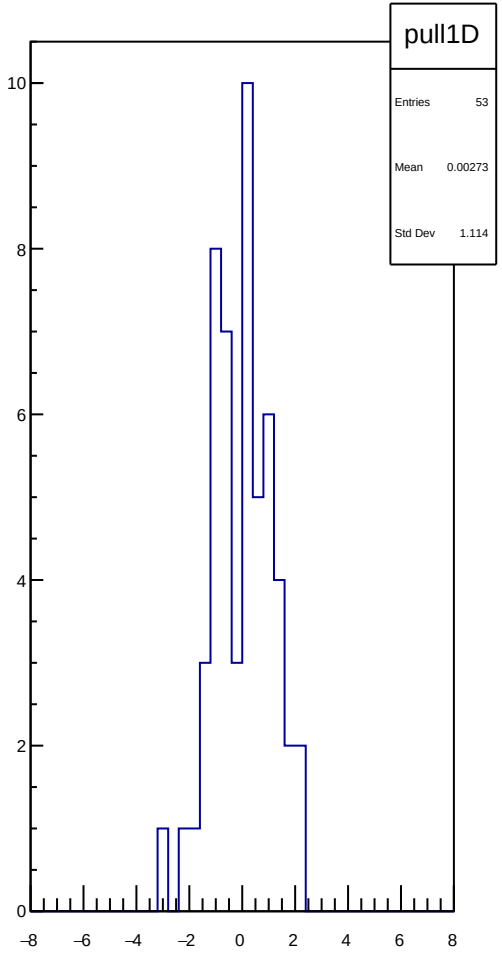
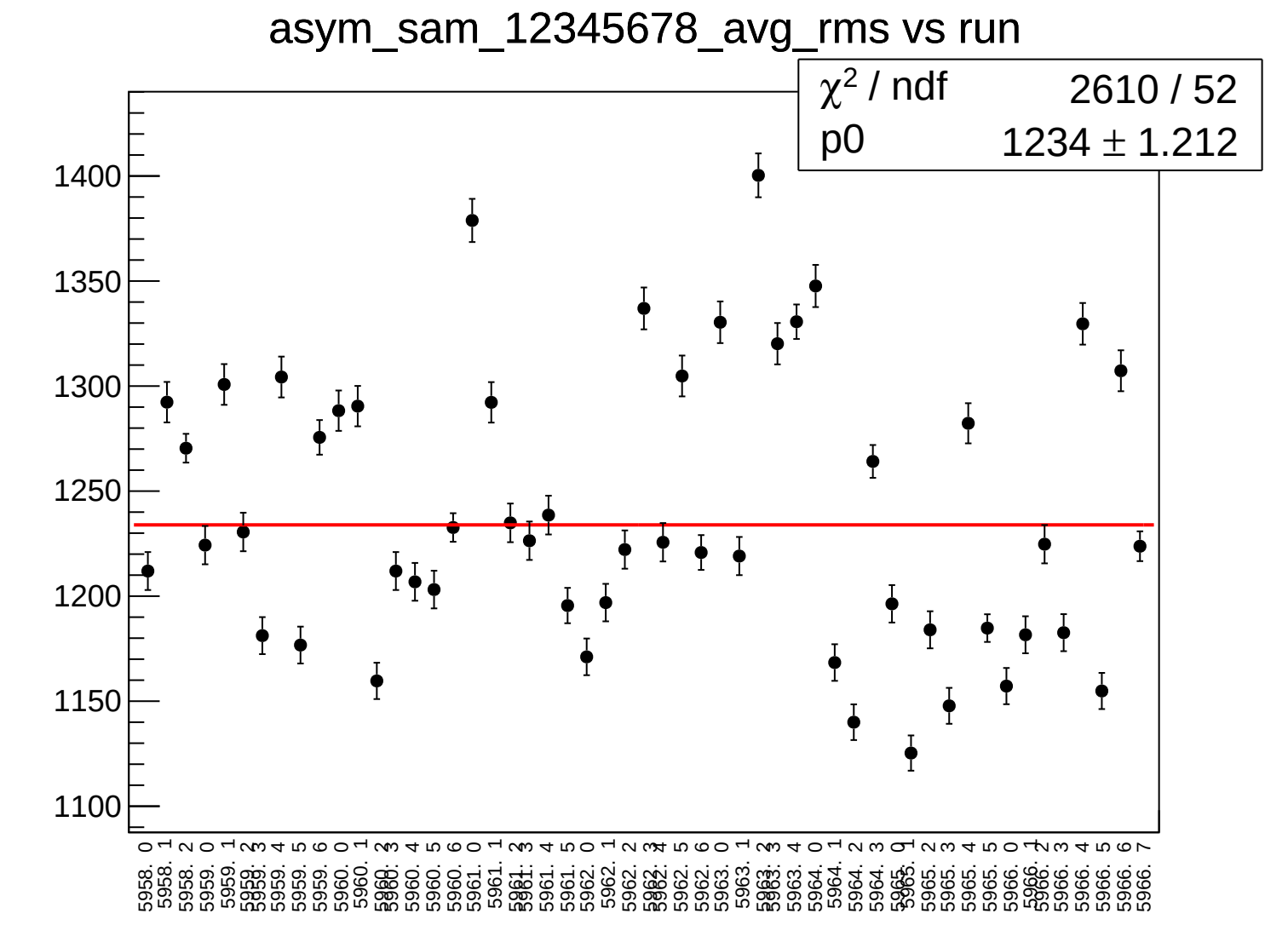
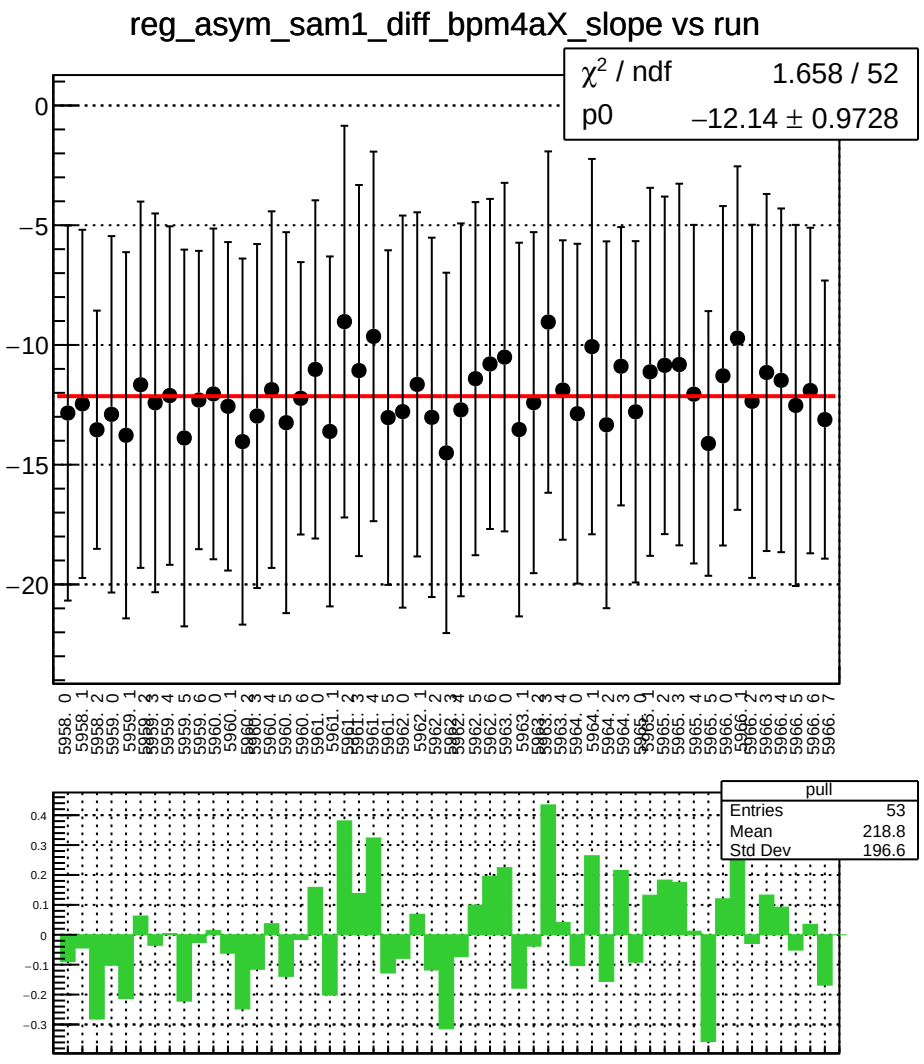
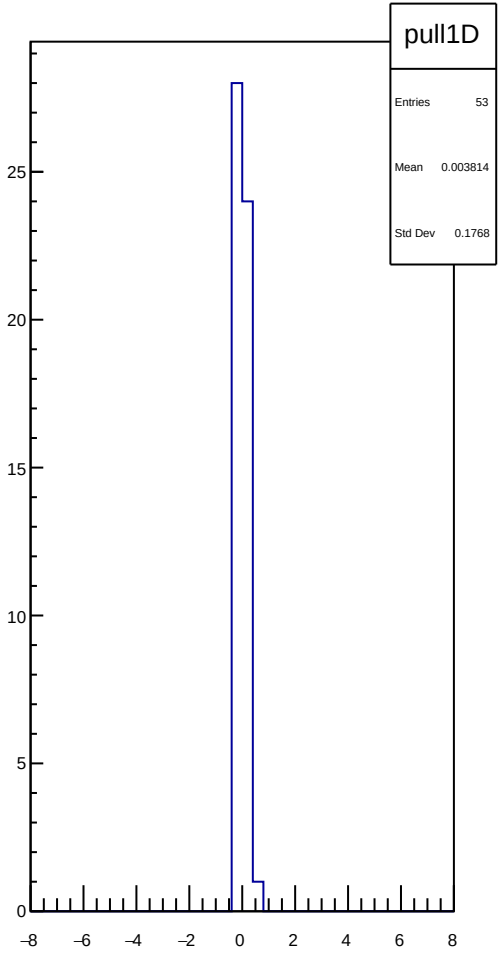
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

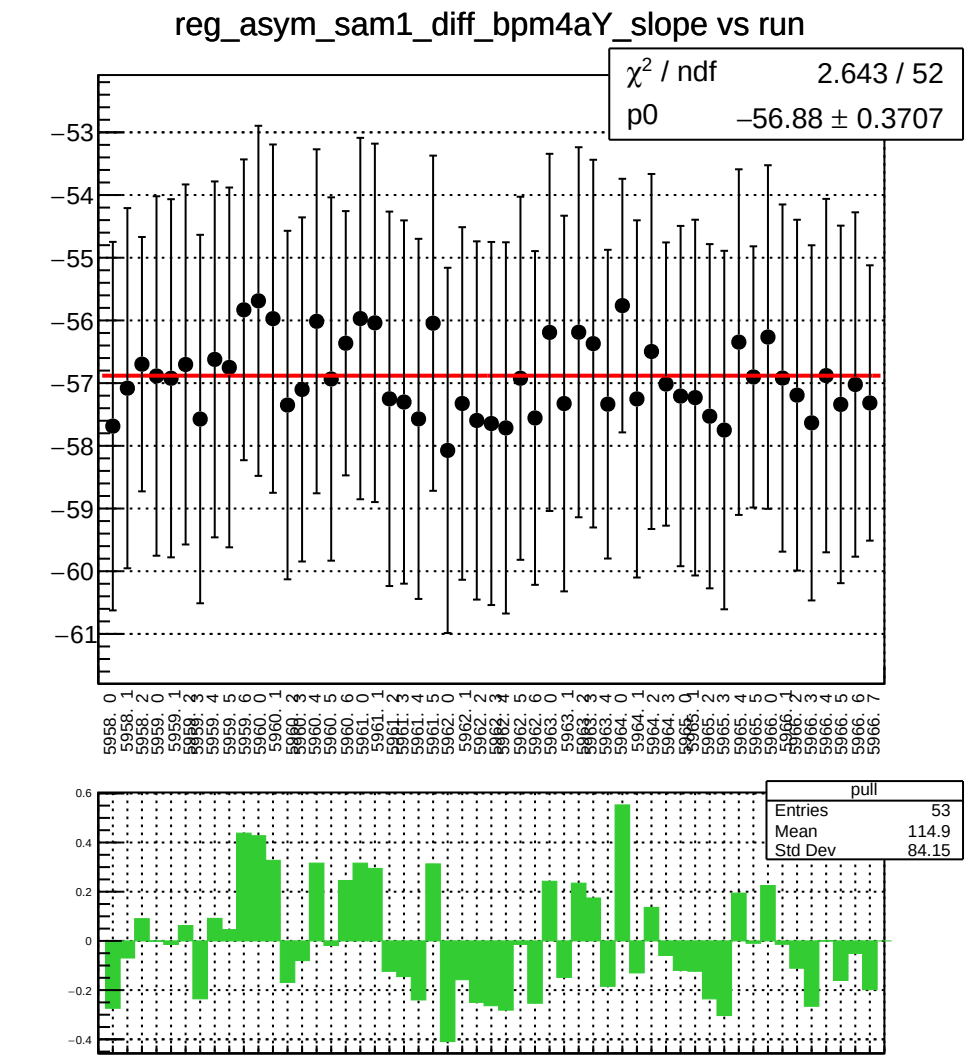

asym_sam_12345678_avg_mean vs run
χ² / ndf 65.82 / 52
p0 −19.9 ± 1713
40000
20000
0
−20000
−40000
pull
Entries 53
Mean 606.9
Std Dev 585.1
2
1
0
−1
−2
−3

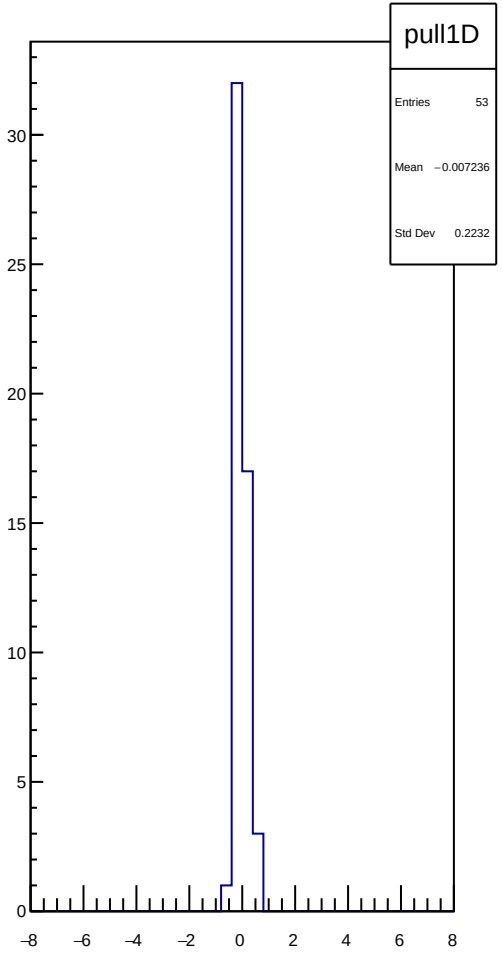

pull1D
Entries 53
Mean 0.00273
Std Dev 1.114
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

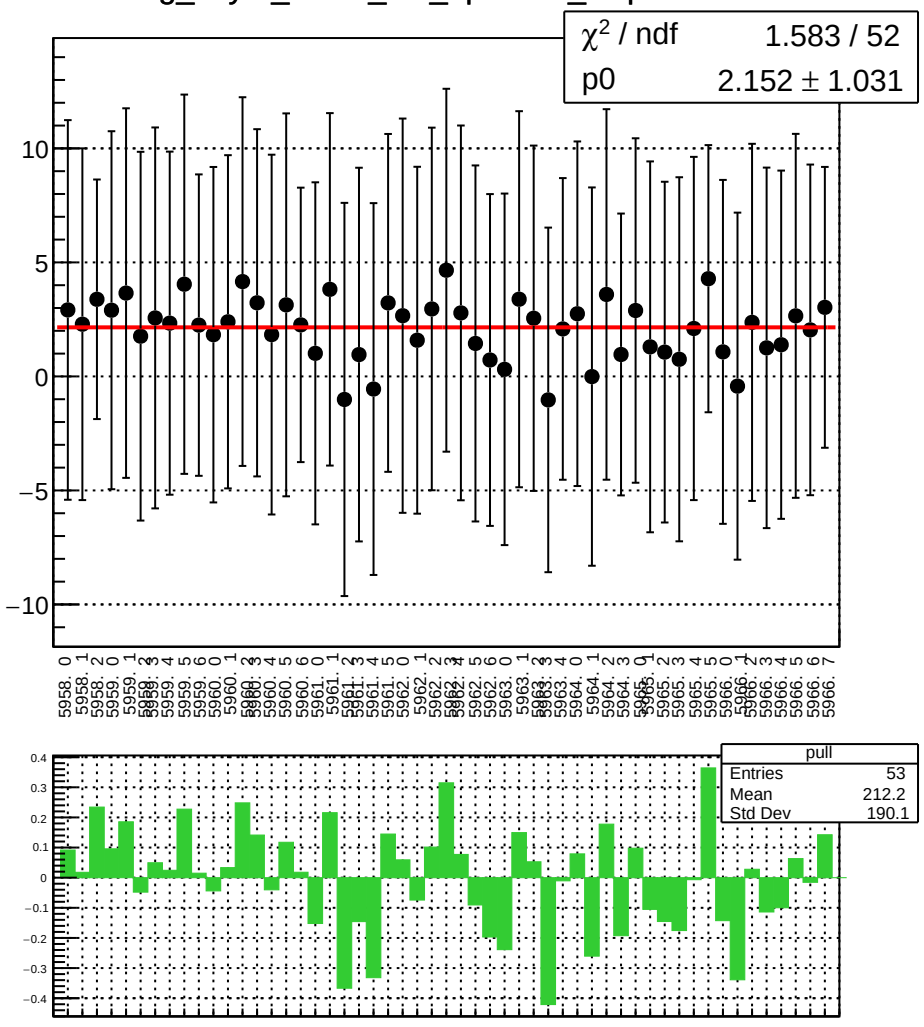

asym_sam_12345678_avg_rms vs run
χ² / ndf 2610 / 52
p0 1234 ± 1.212
1400
1350
1300
1250
1200
1150
1100
5958. 0
5958. 1
5958. 2
5959. 0
5959. 1
5959. 2
5959. 3
5959. 4
5959. 5
5959. 6
5960. 0
5960. 1
5960. 2
5960. 3
5960. 4
5960. 5
5960. 6
5961. 0
5961. 1
5961. 2
5961. 3
5961. 4
5961. 5
5962. 0
5962. 1
5962. 2
5962. 3
5962. 4
5962. 5
5962. 6
5963. 0
5963. 1
5963. 2
5963. 3
5963. 4
5964. 0
5964. 1
5964. 2
5964. 3
5965. 0
5965. 1
5965. 2
5965. 3
5965. 4
5965. 5
5966. 0
5966. 1
5966. 2
5966. 3
5966. 4
5966. 5
5966. 6
5966. 7

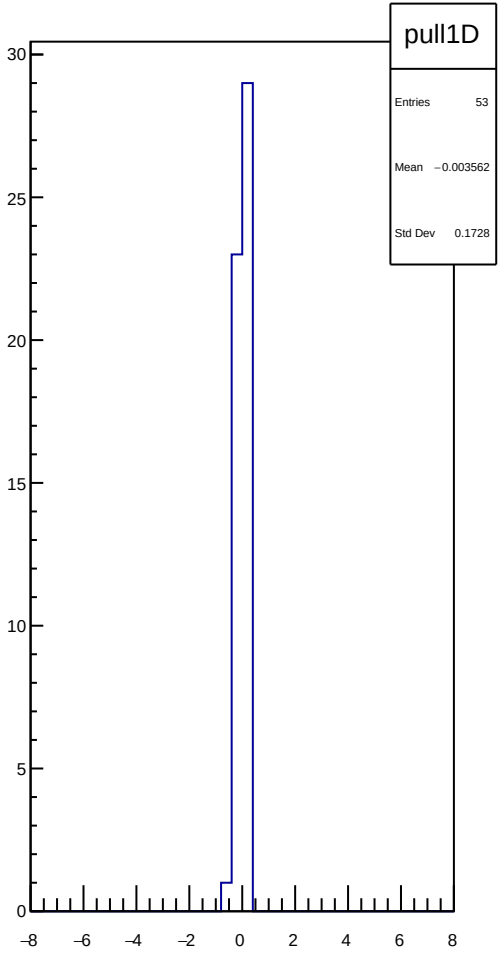

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 1.658 / 52
p0 −12.14 ± 0.9728
pull
Entries 53
Mean 218.8
Std Dev 196.6

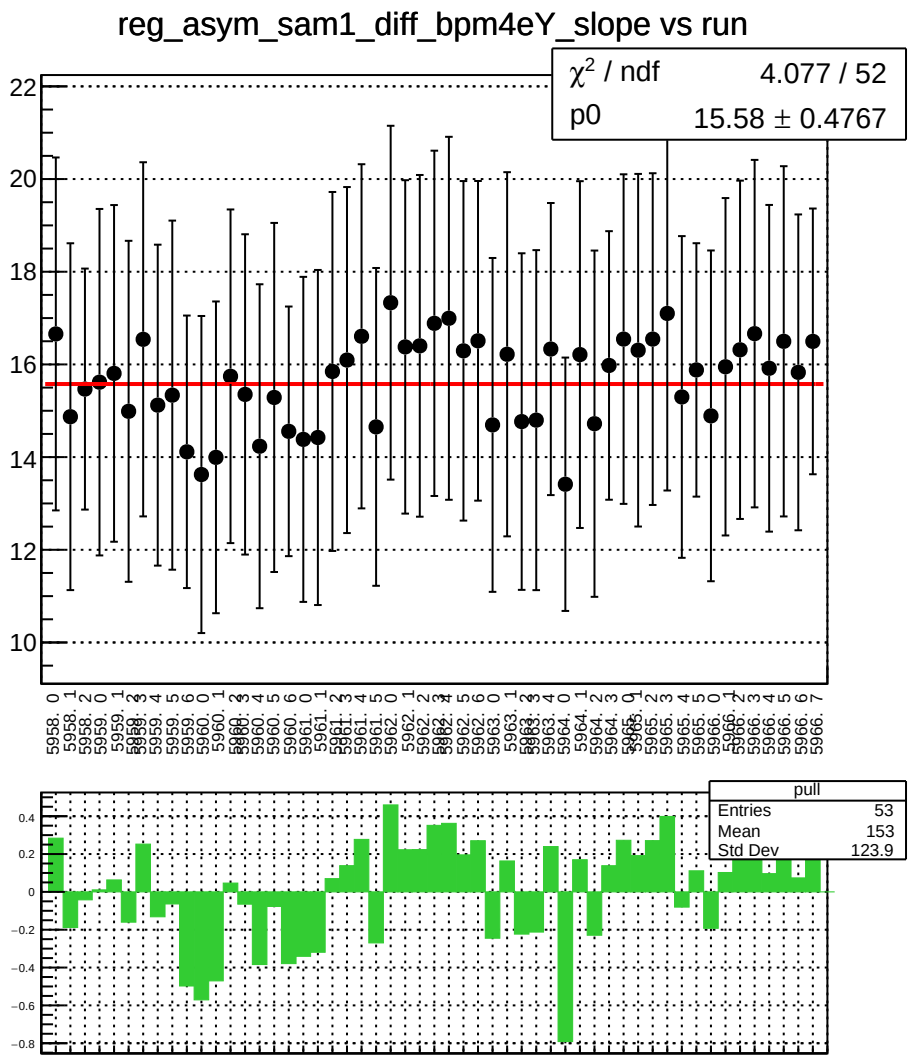

pull1D
Entries 53
Mean 0.003814
Std Dev 0.1768

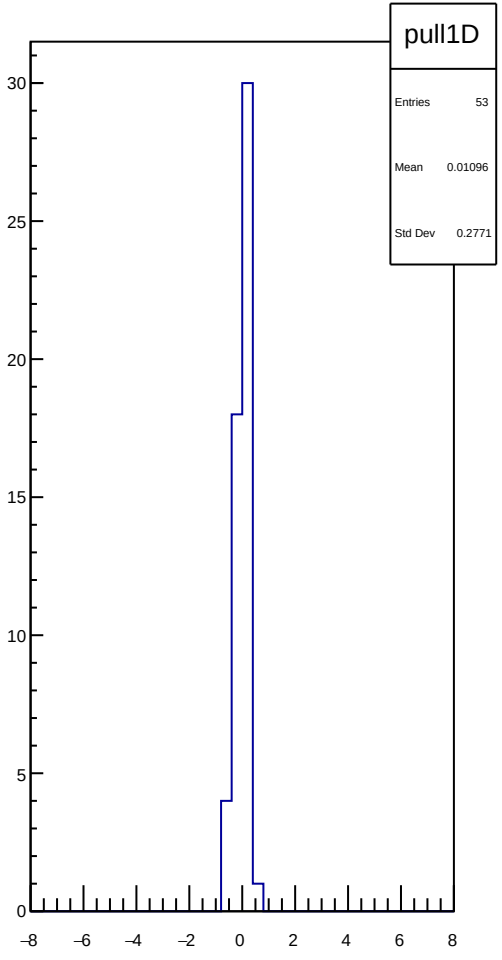

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 2.643 / 52
p0 −56.88 ± 0.3707
pull
Entries 53
Mean 114.9
Std Dev 84.15

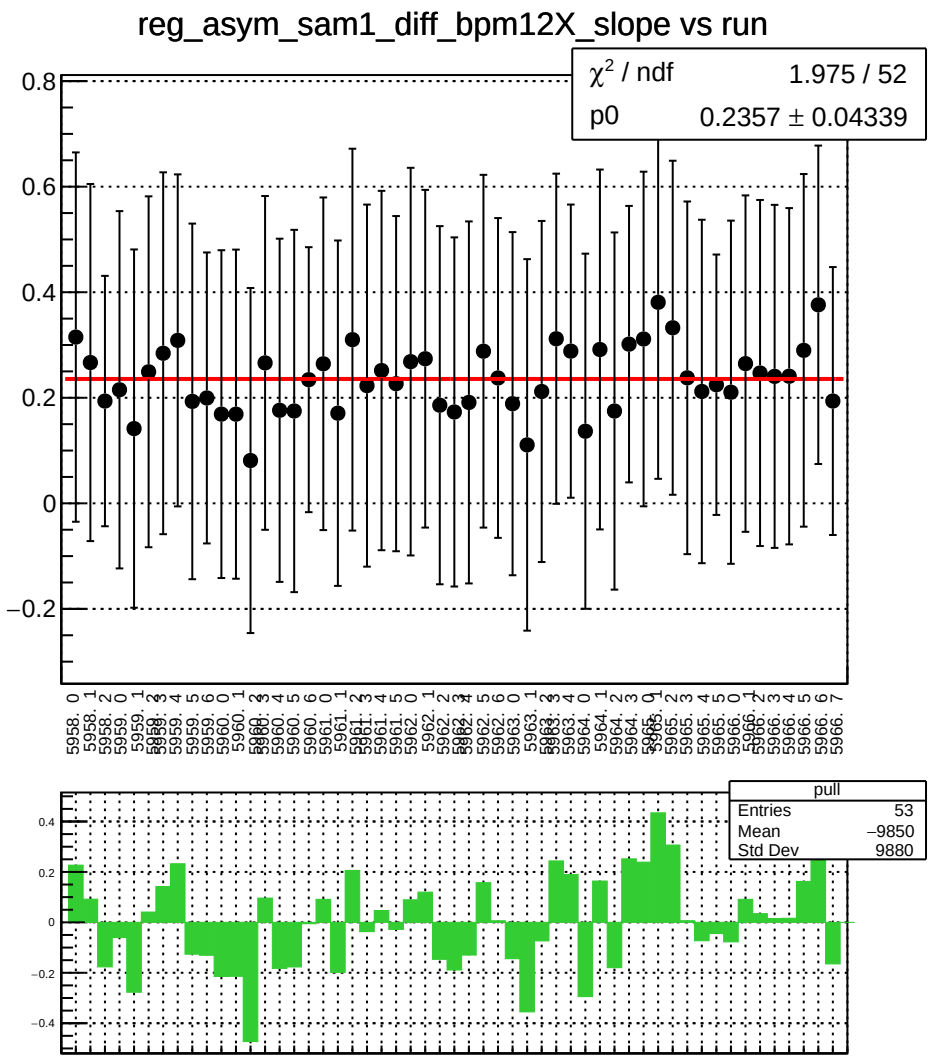

pull1D
Entries 53
Mean −0.007236
Std Dev 0.2232

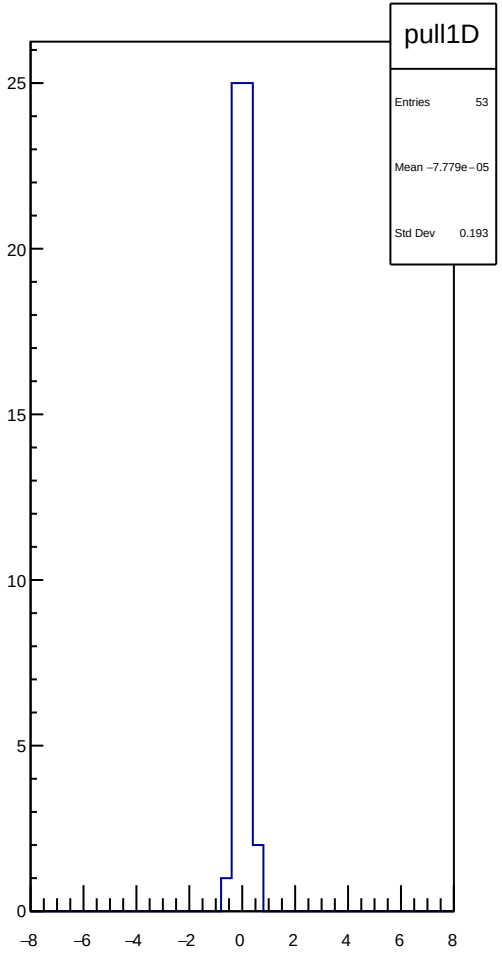

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1.583 / 52
p0 2.152 ± 1.031
pull
Entries 53
Mean 212.2
Std Dev 190.1

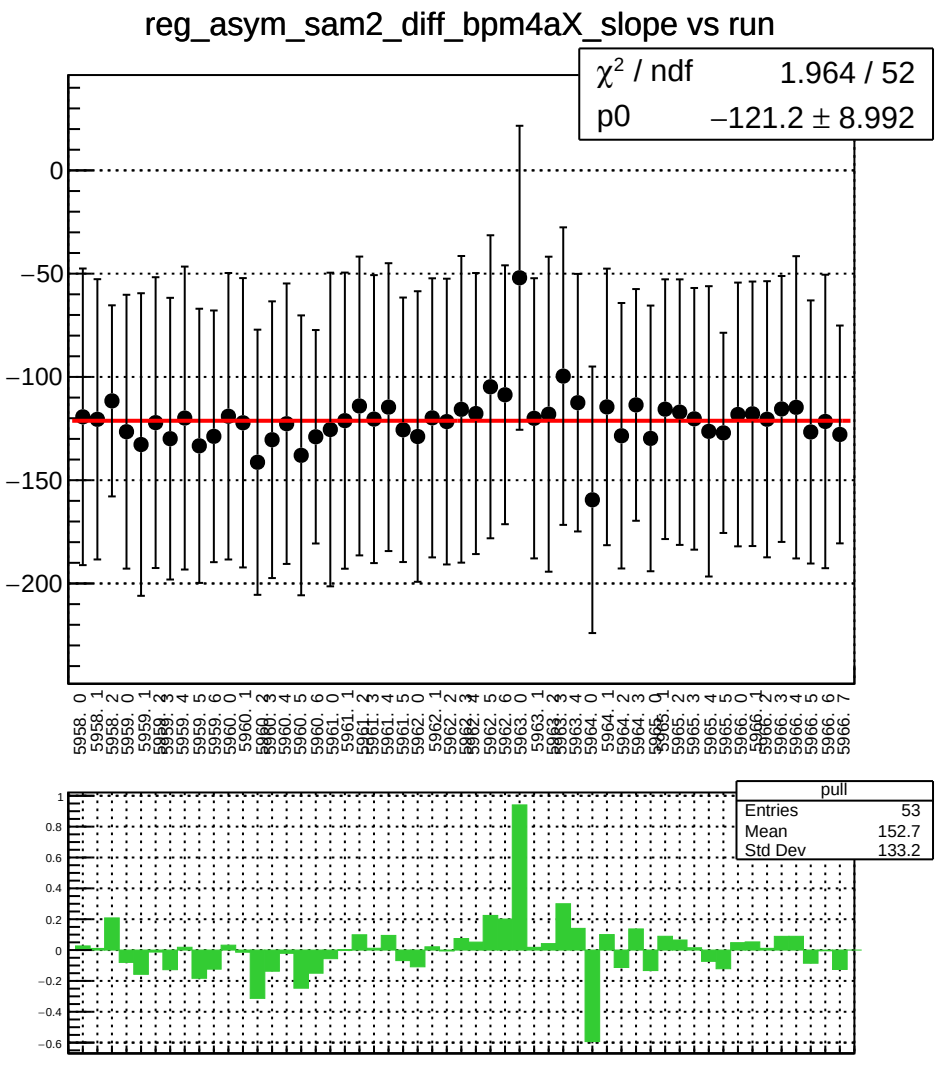

pull1D
Entries 53
Mean −0.003562
Std Dev 0.1728

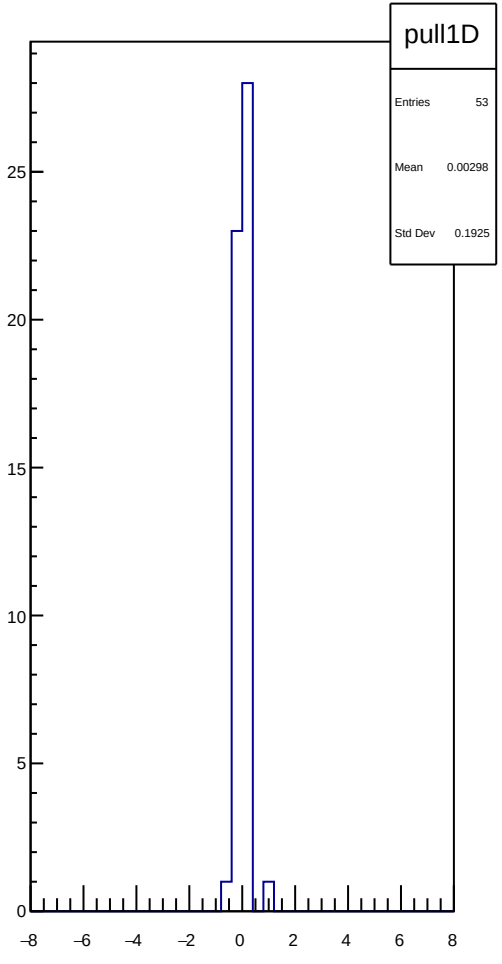

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 4.077 / 52
p0 15.58 ± 0.4767
pull
Entries 53
Mean 153
Std Dev 123.9

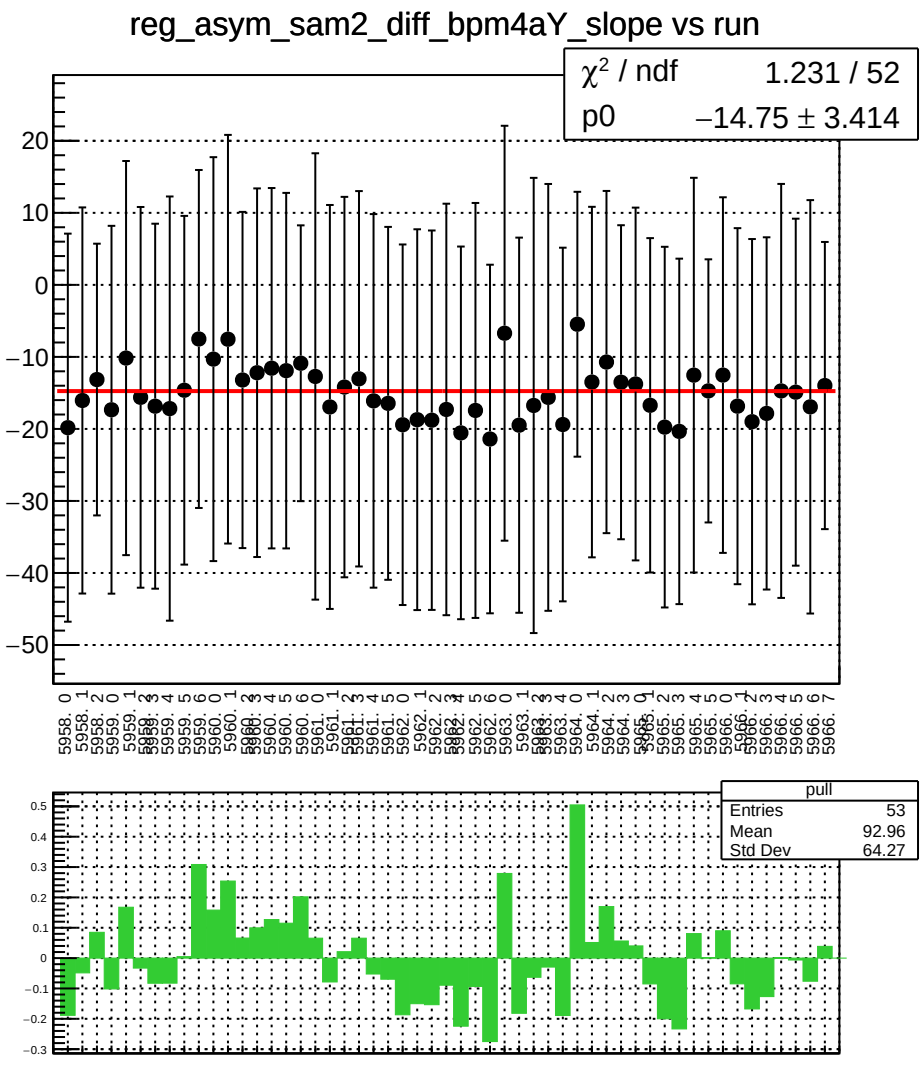

pull1D
Entries 53
Mean 0.01096
Std Dev 0.2771

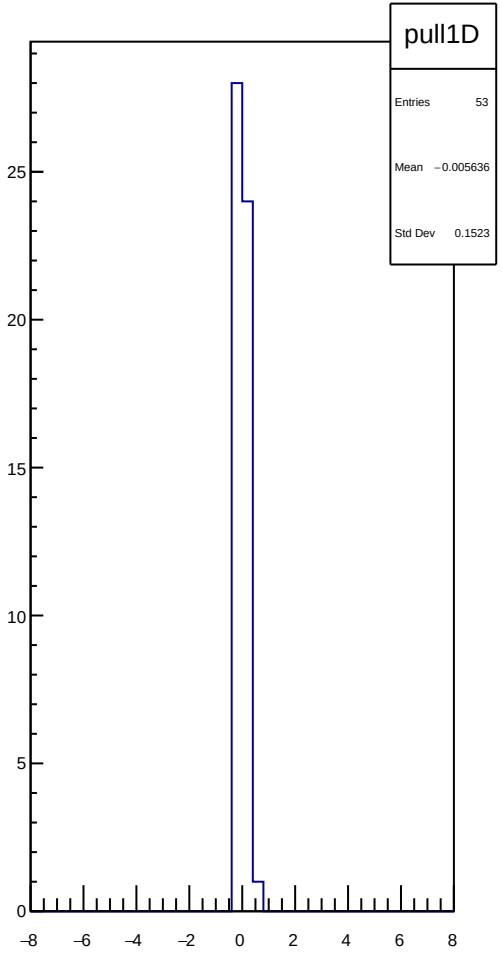

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 1.975 / 52
p0 0.2357 ± 0.04339
pull
Entries 53
Mean −9850
Std Dev 9880

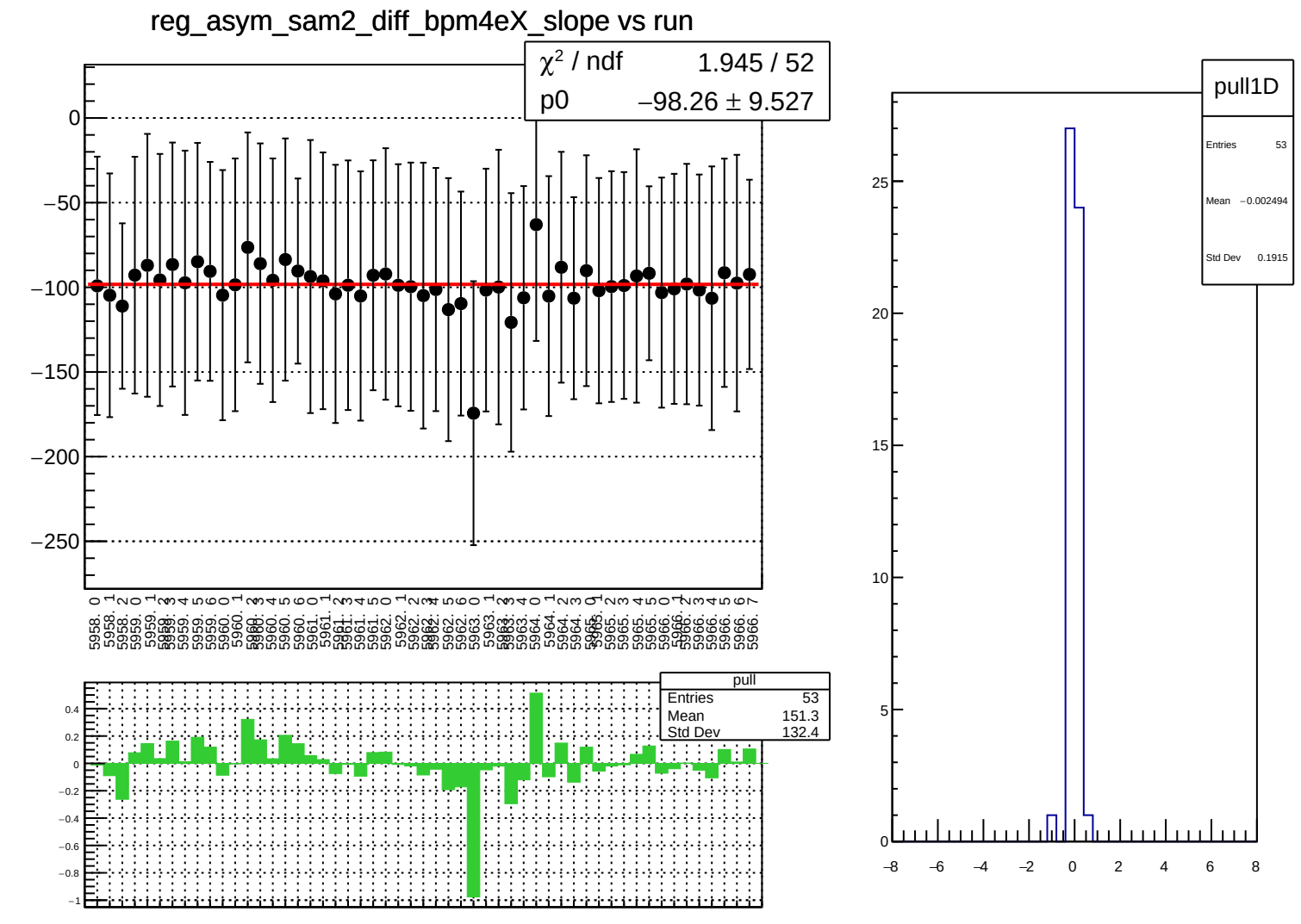

pull1D
Entries 53
Mean −7.779e−05
Std Dev 0.193

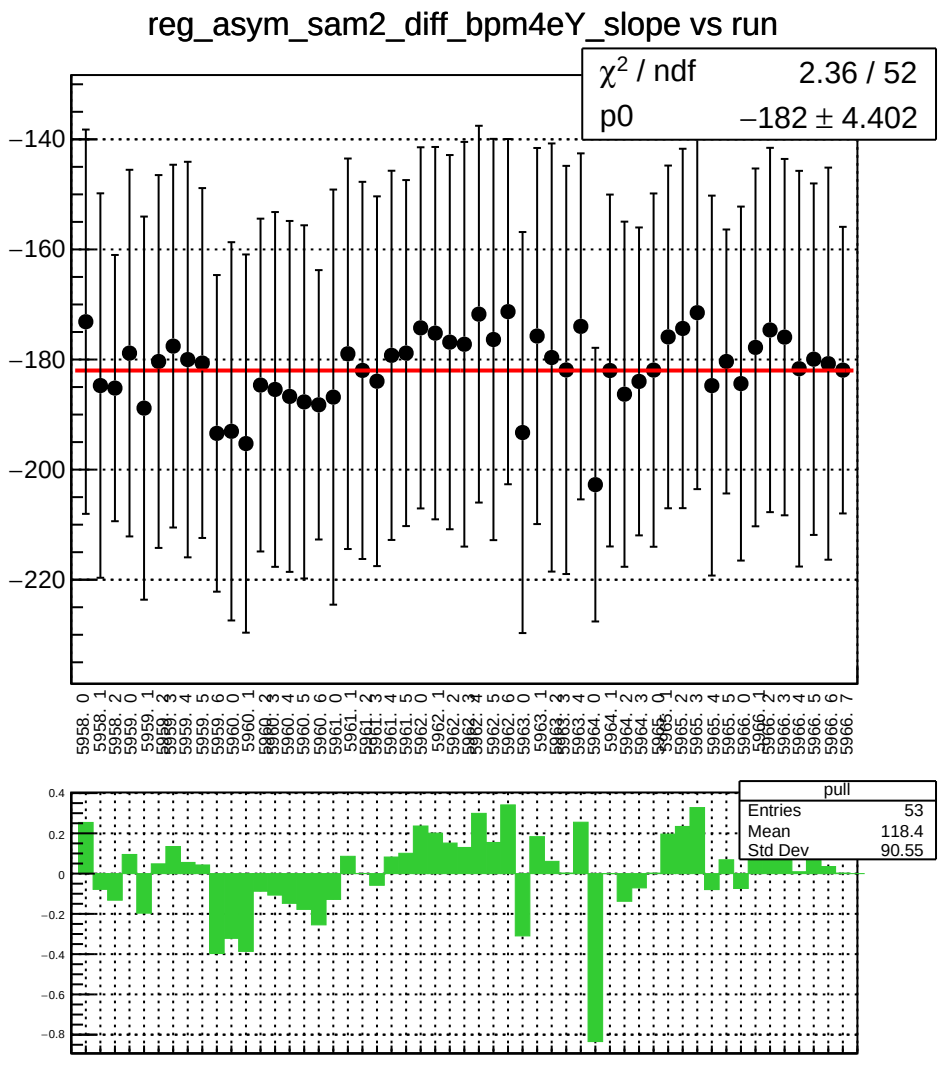

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 1.964 / 52
p0 −121.2 ± 8.992
pull
Entries 53
Mean 152.7
Std Dev 133.2

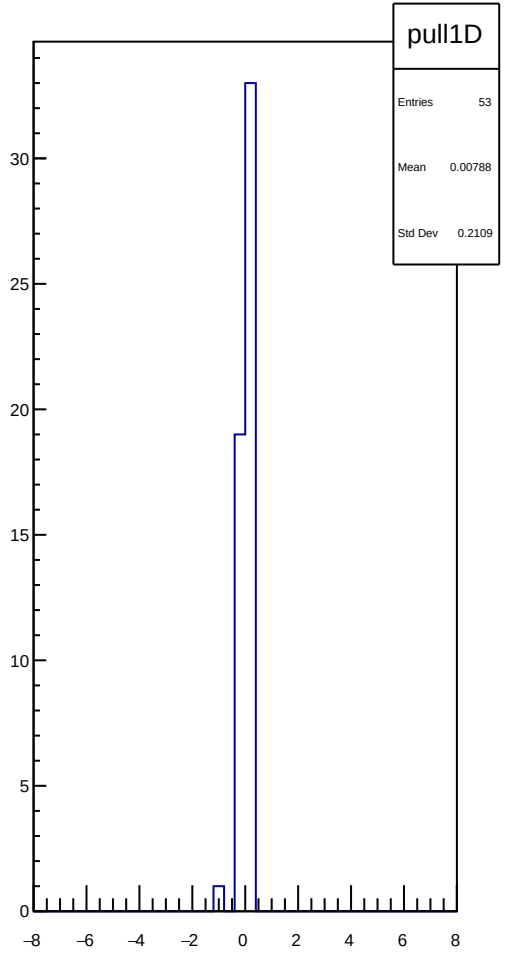

pull1D
Entries 53
Mean 0.00298
Std Dev 0.1925

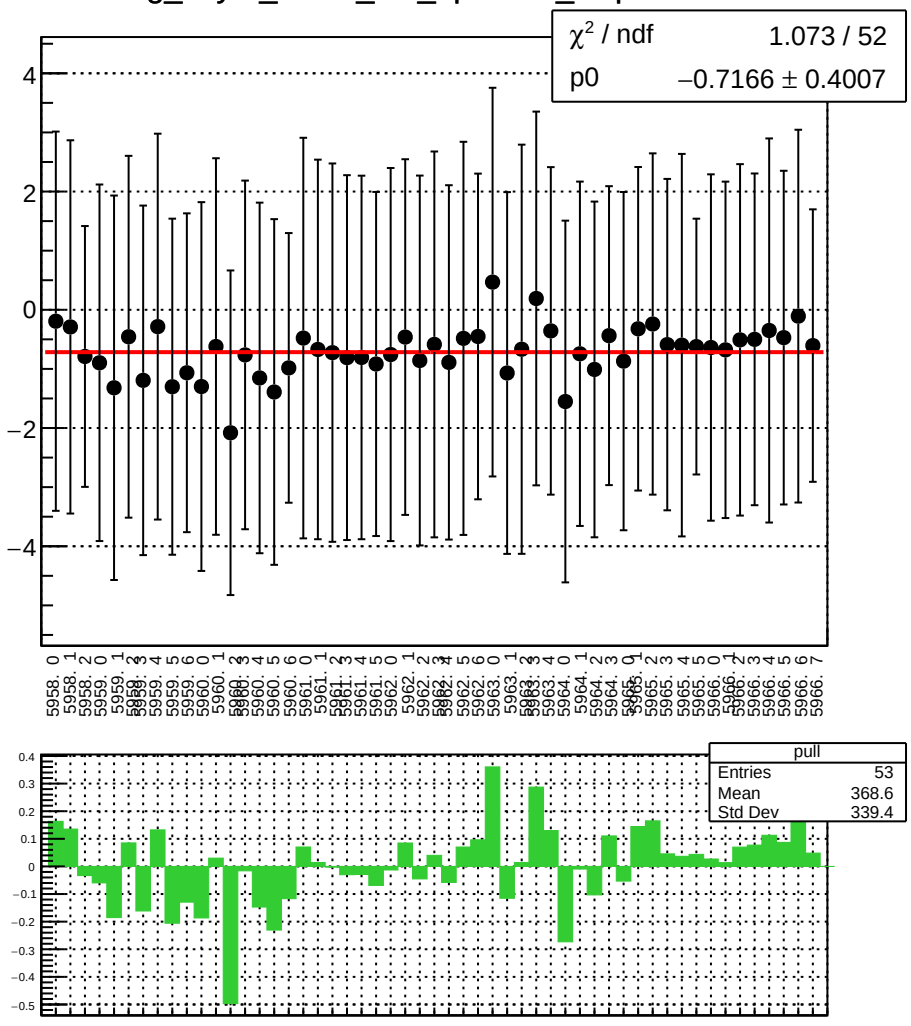

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.231 / 52
p0 −14.75 ± 3.414
pull
Entries 53
Mean 92.96
Std Dev 64.27

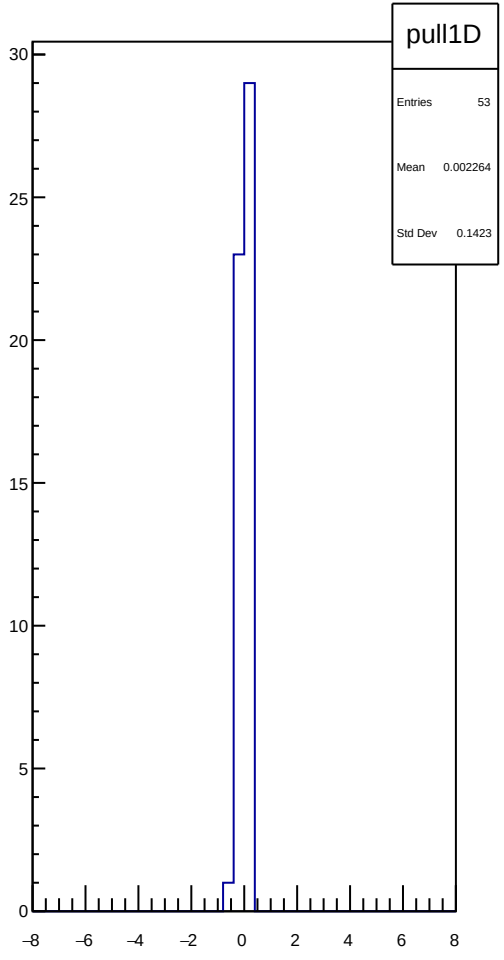

pull1D
Entries 53
Mean −0.005636
Std Dev 0.1523

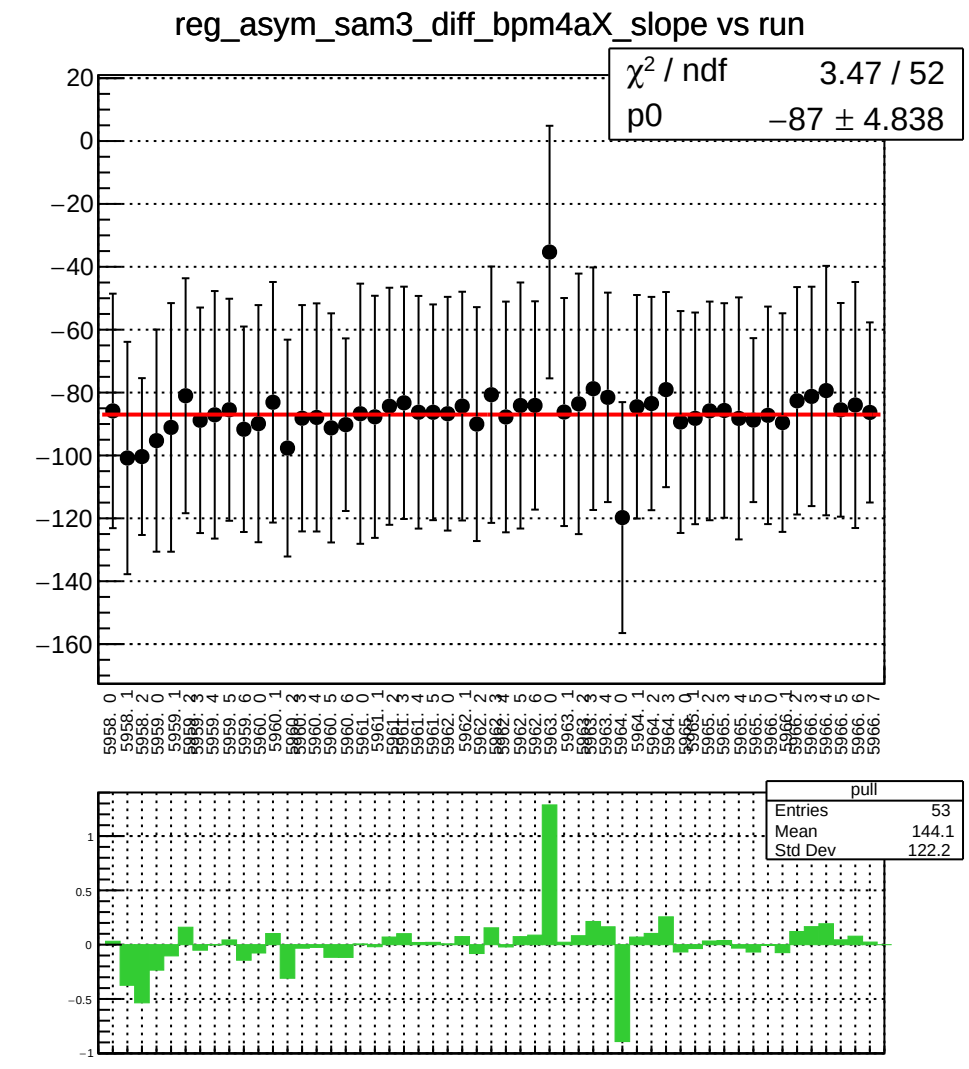

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.945 / 52
p0 −98.26 ± 9.527
pull
Entries 53
Mean 151.3
Std Dev 132.4
pull1D
Entries 53
Mean −0.002494
Std Dev 0.1915

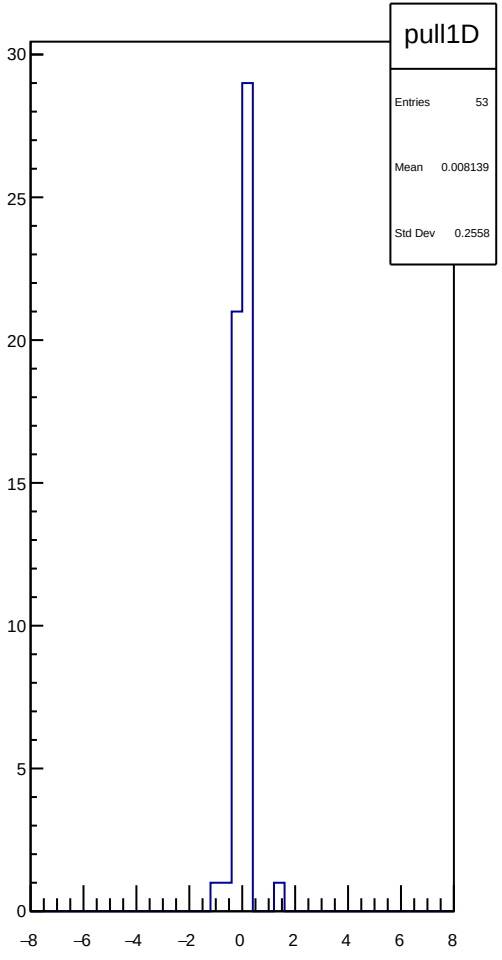

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 2.36 / 52
p0 −182 ± 4.402
−140
−160
−180
−200
−220
pull
Entries 53
Mean 118.4
Std Dev 90.55
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

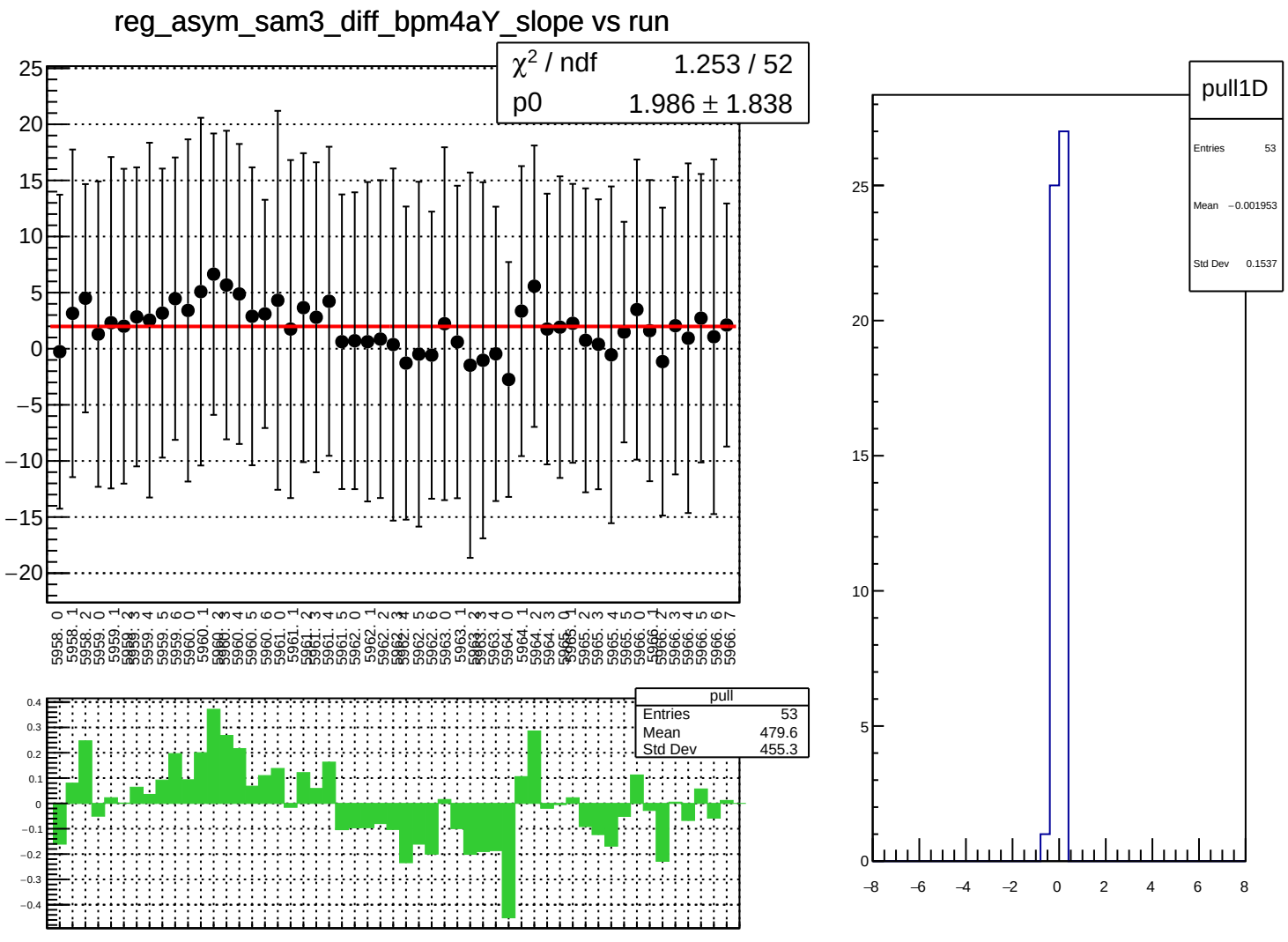

pull1D
Entries 53
Mean 0.00788
Std Dev 0.2109
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

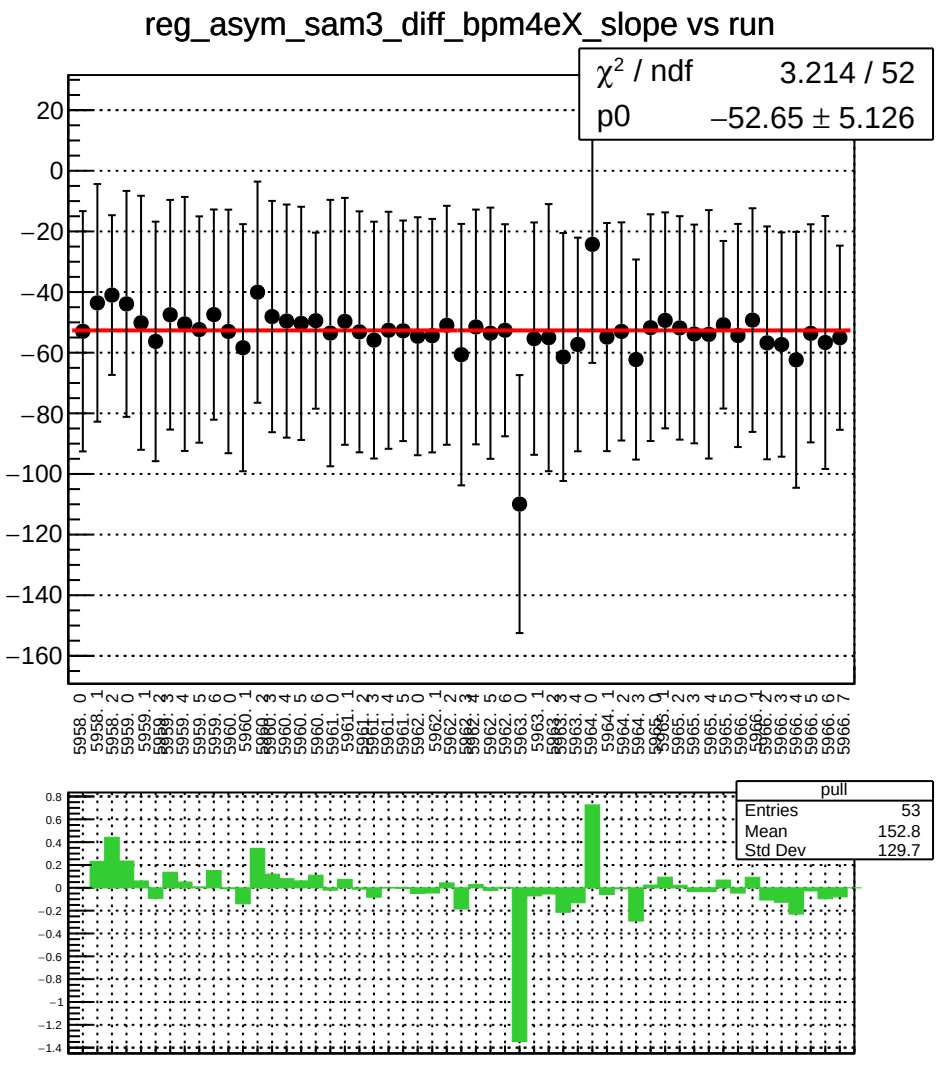

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.073 / 52
p0 −0.7166 ± 0.4007
pull
Entries 53
Mean 368.6
Std Dev 339.4

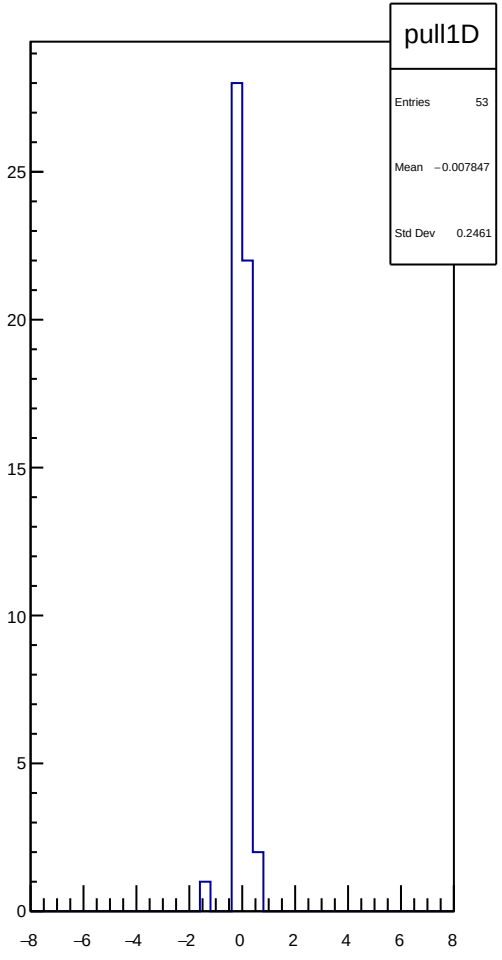

pull1D
Entries 53
Mean 0.002264
Std Dev 0.1423

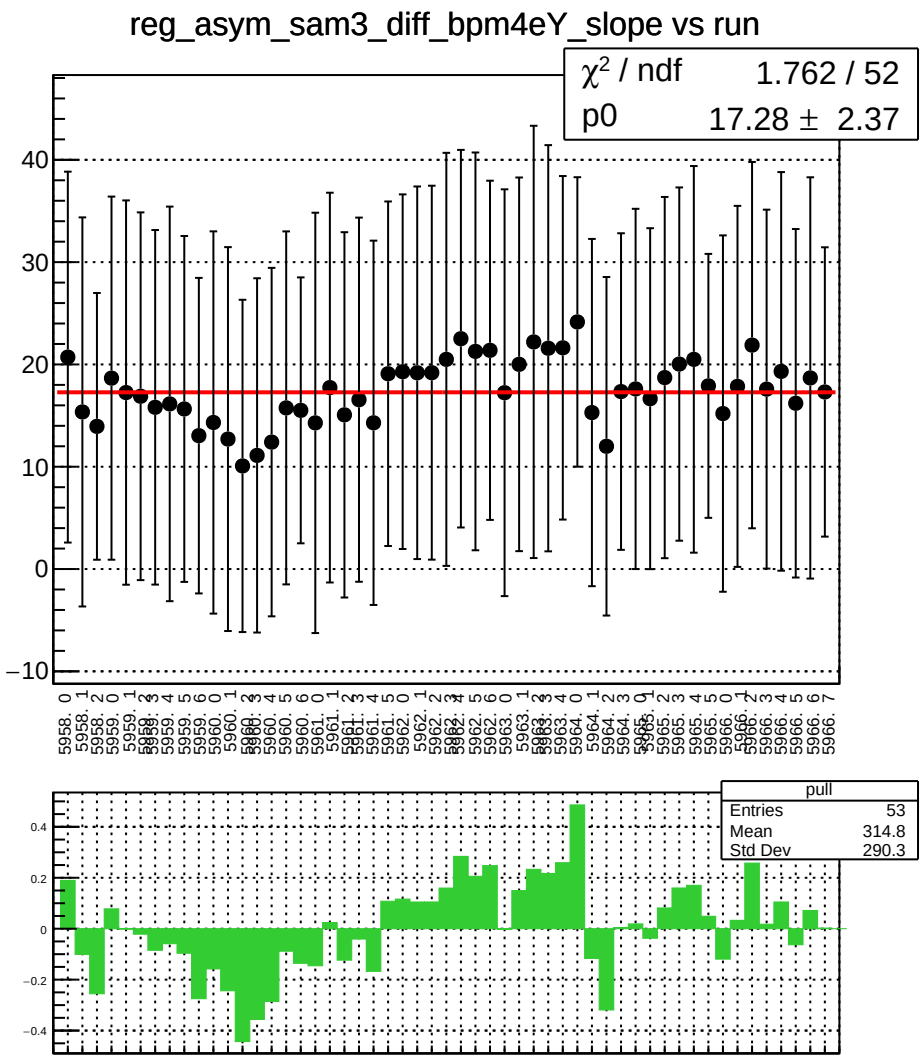

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 3.47 / 52
p0 −87 ± 4.838
pull
Entries 53
Mean 144.1
Std Dev 122.2

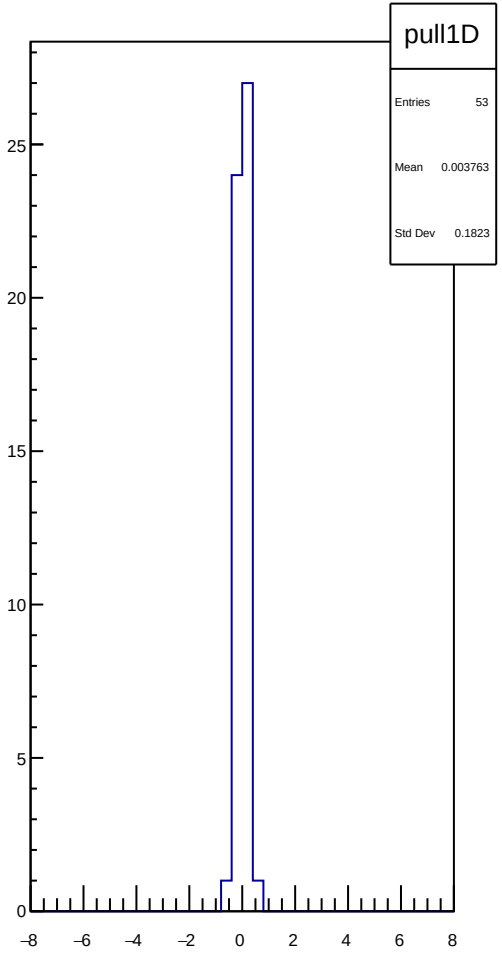

pull1D
Entries 53
Mean 0.008139
Std Dev 0.2558

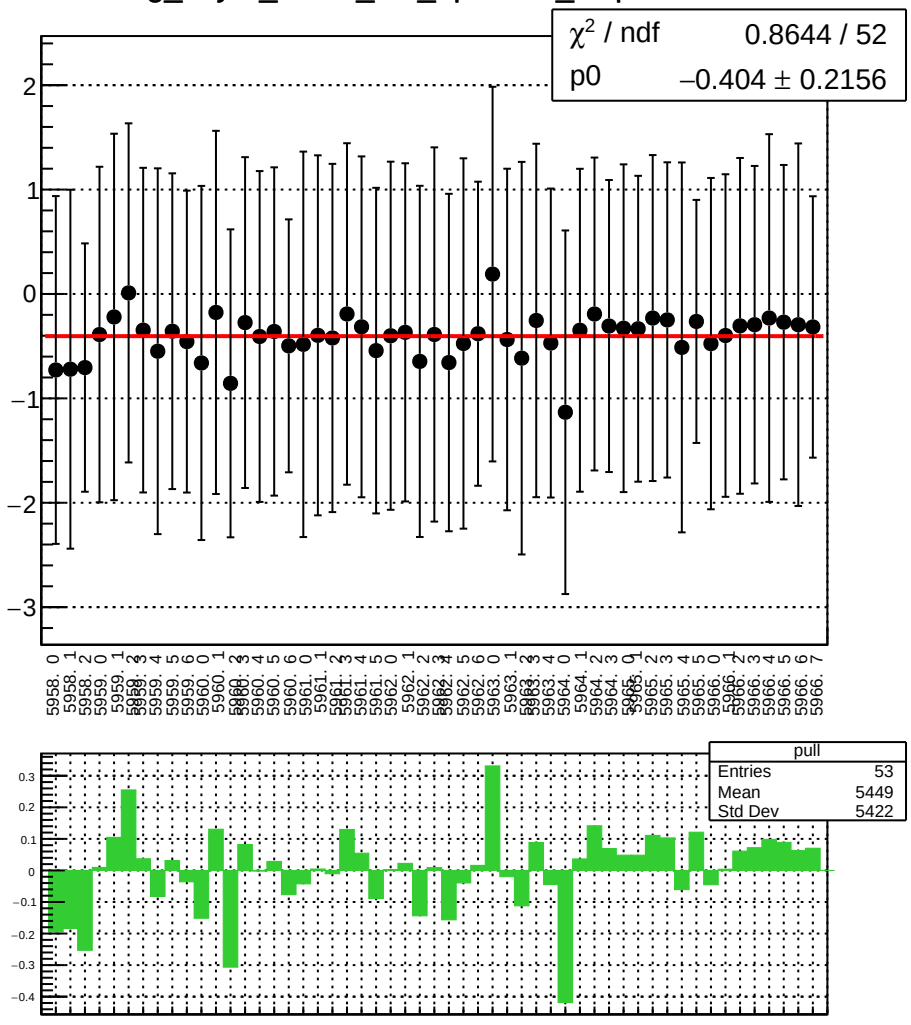

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.253 / 52
p0 1.986 ± 1.838
pull
Entries 53
Mean 479.6
Std Dev 455.3
pull1D
Entries 53
Mean −0.001953
Std Dev 0.1537

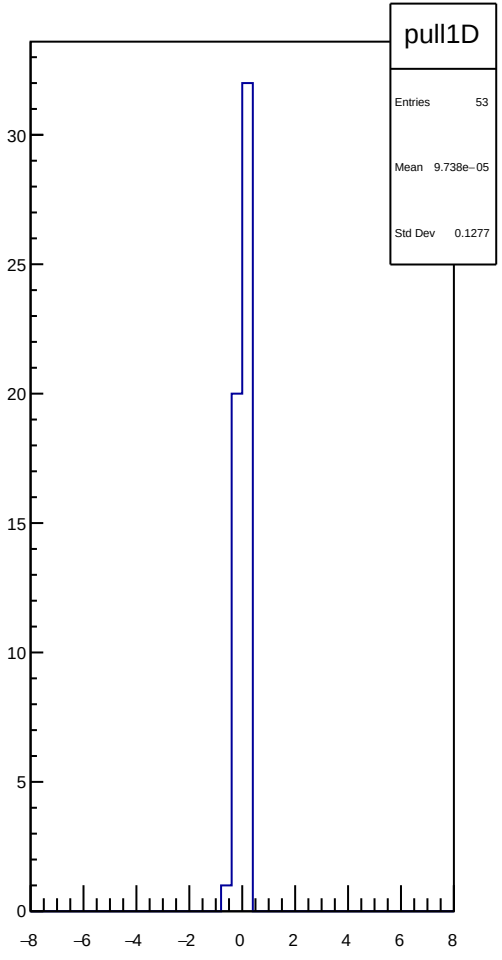

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 3.214 / 52
p0 −52.65 ± 5.126
pull
Entries 53
Mean 152.8
Std Dev 129.7

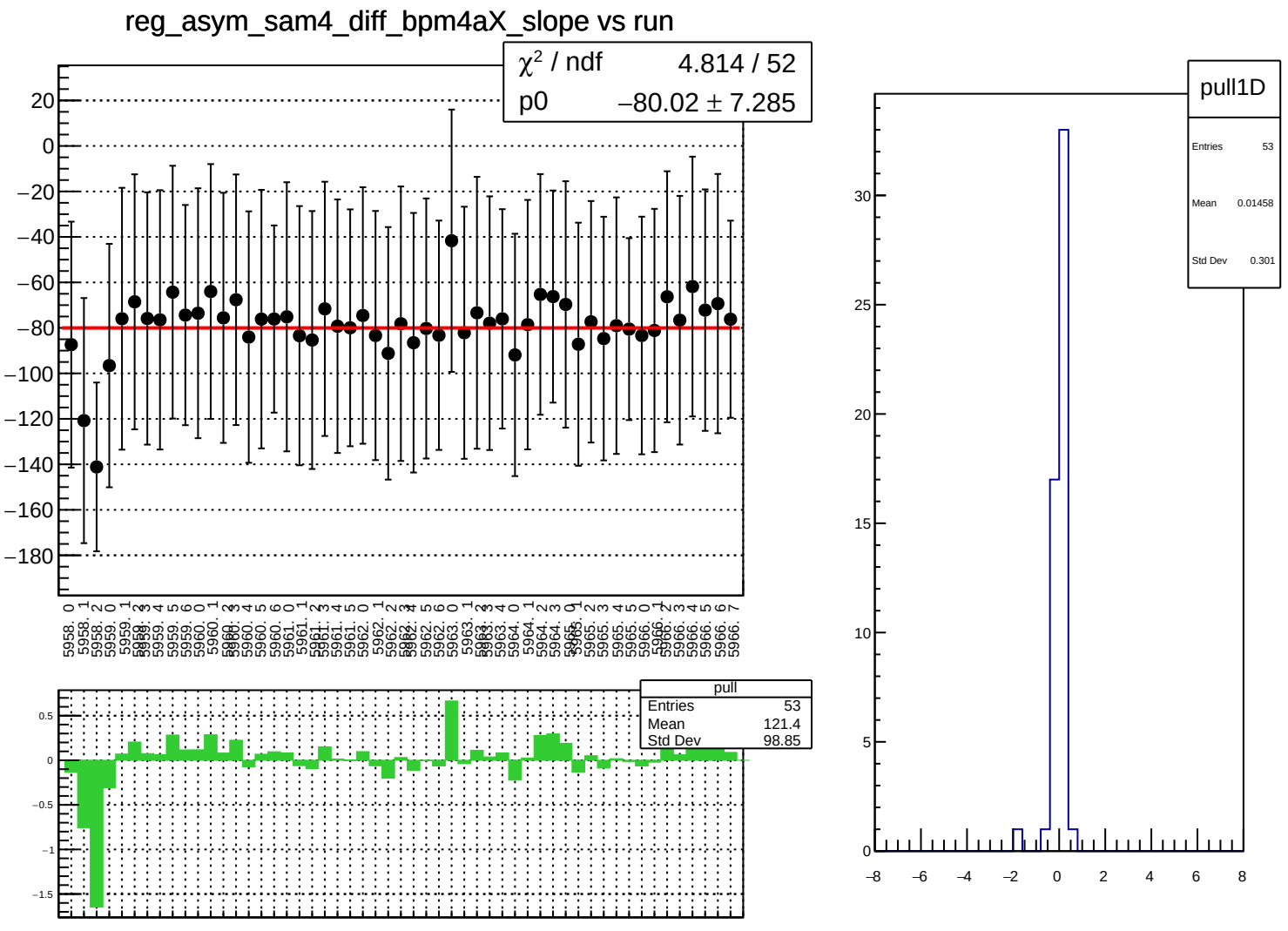

pull1D
Entries 53
Mean −0.007847
Std Dev 0.2461

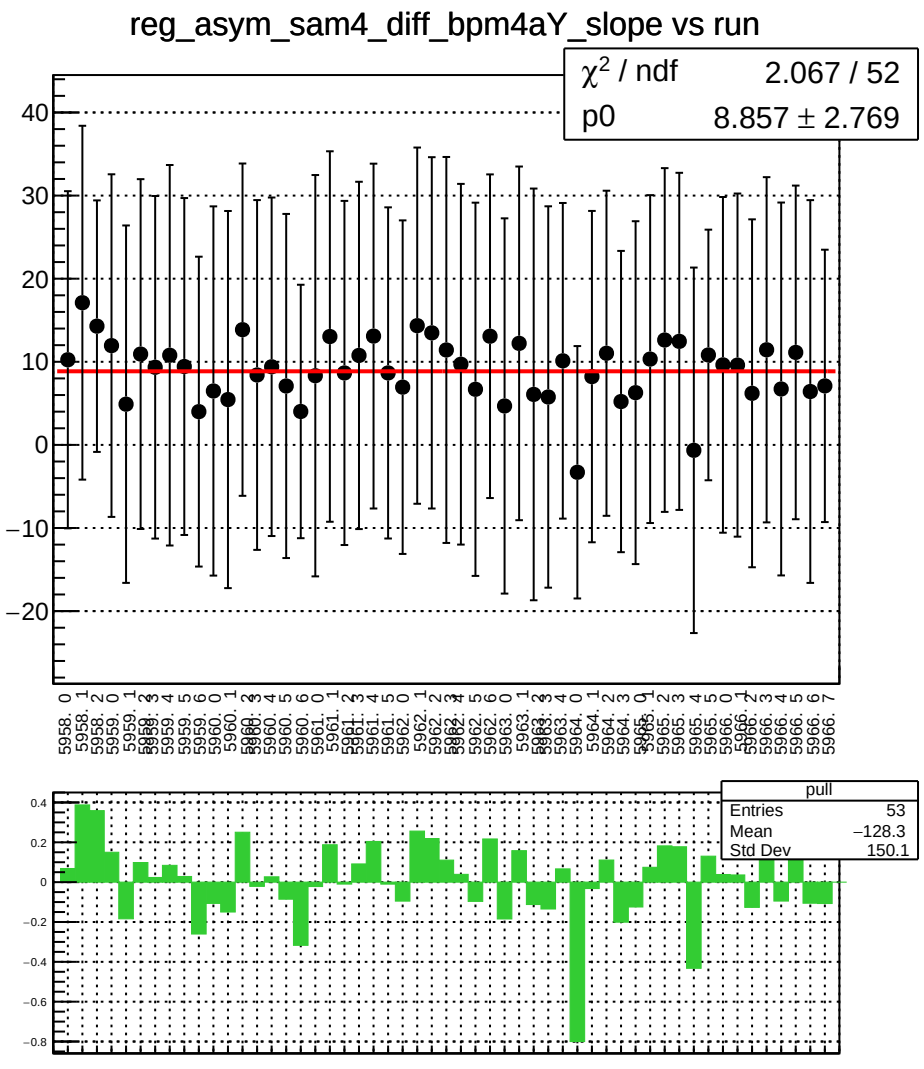

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.762 / 52
p0 17.28 ± 2.37
pull
Entries 53
Mean 314.8
Std Dev 290.3

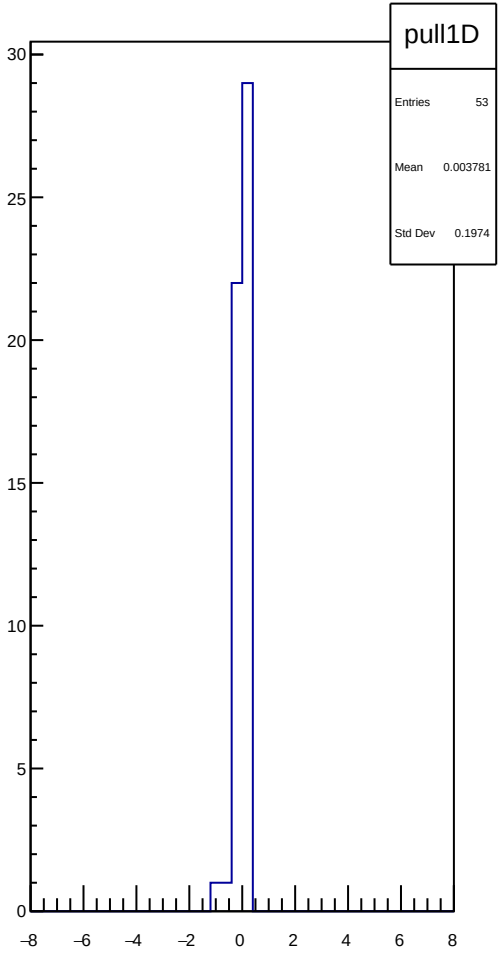

pull1D
Entries 53
Mean 0.003763
Std Dev 0.1823

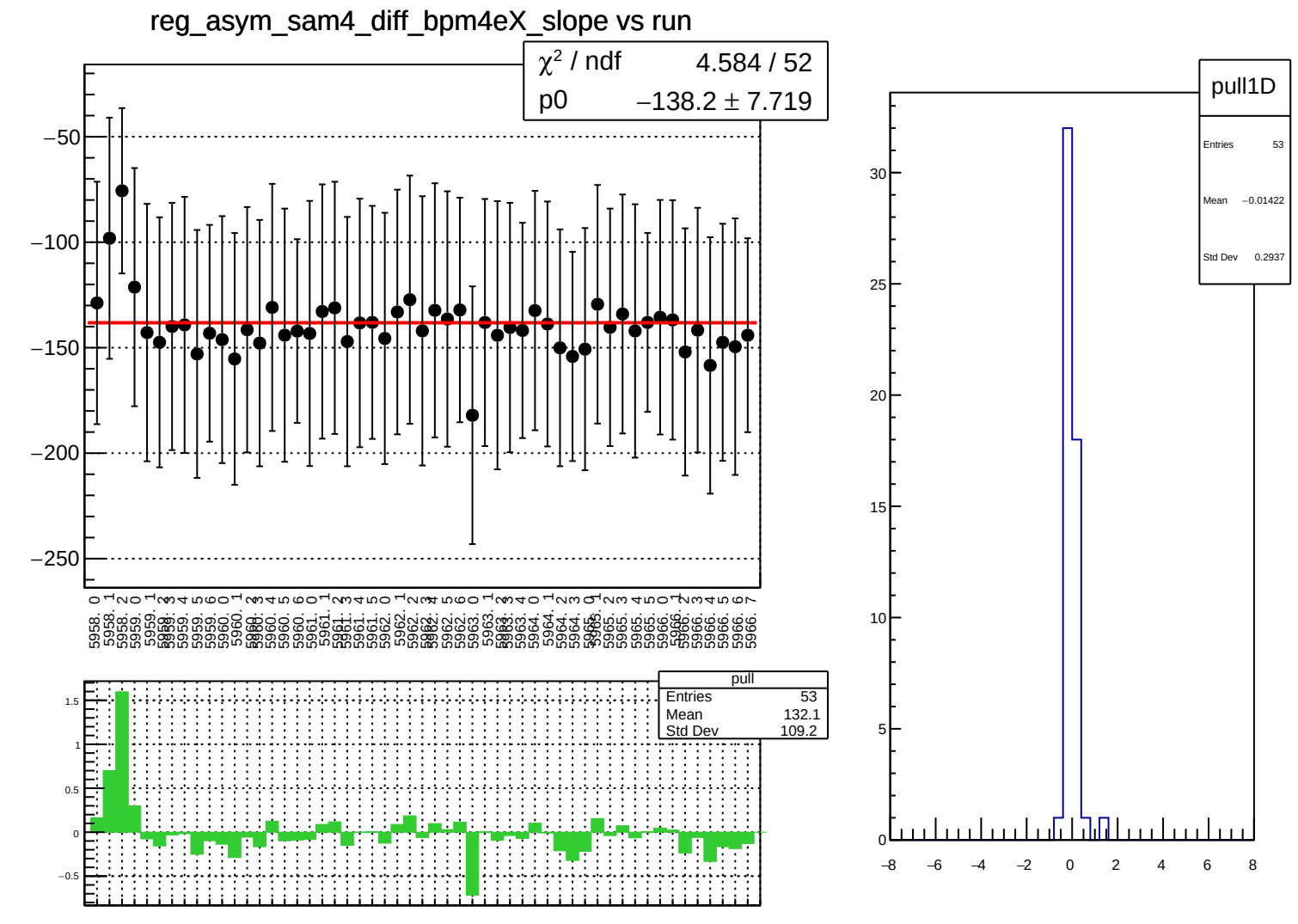

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.8644 / 52
p0 −0.404 ± 0.2156
pull
Entries 53
Mean 5449
Std Dev 5422

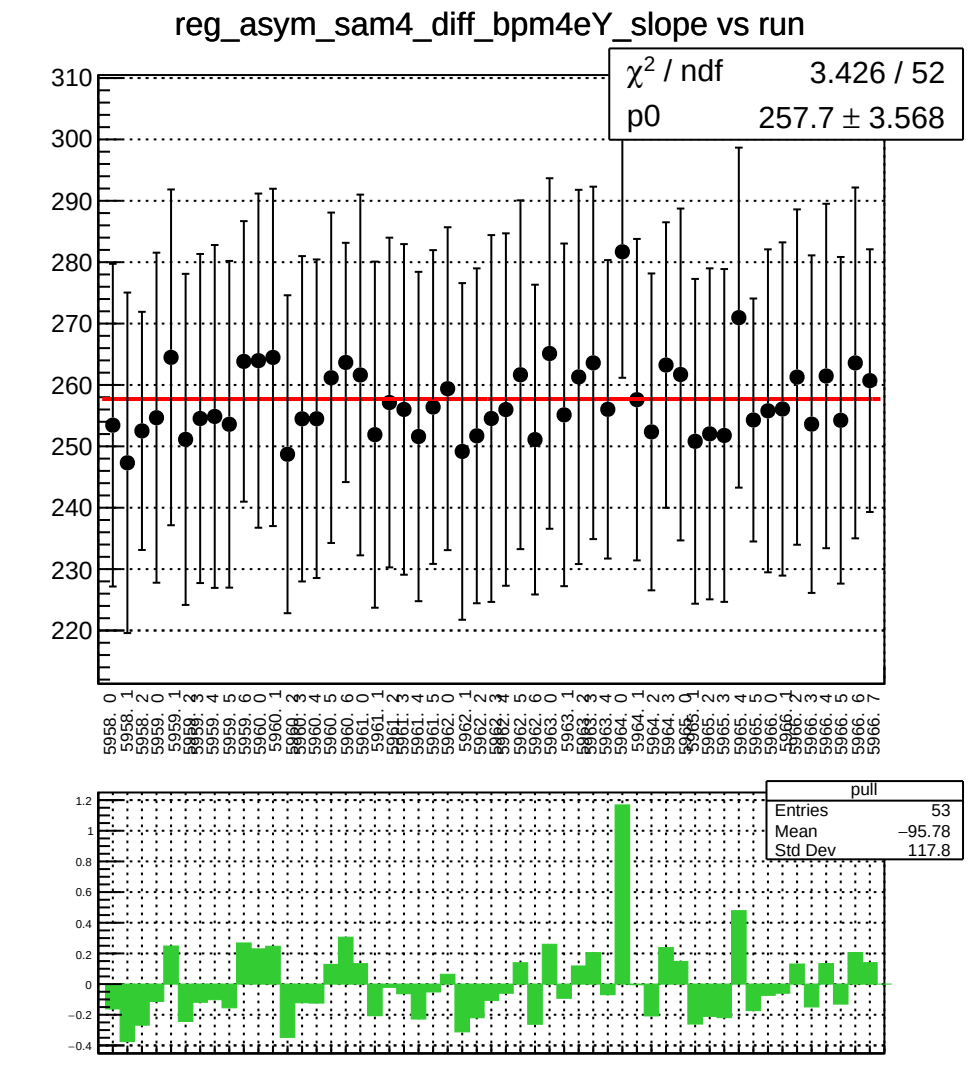

pull1D
Entries 53
Mean 9.738e−05
Std Dev 0.1277

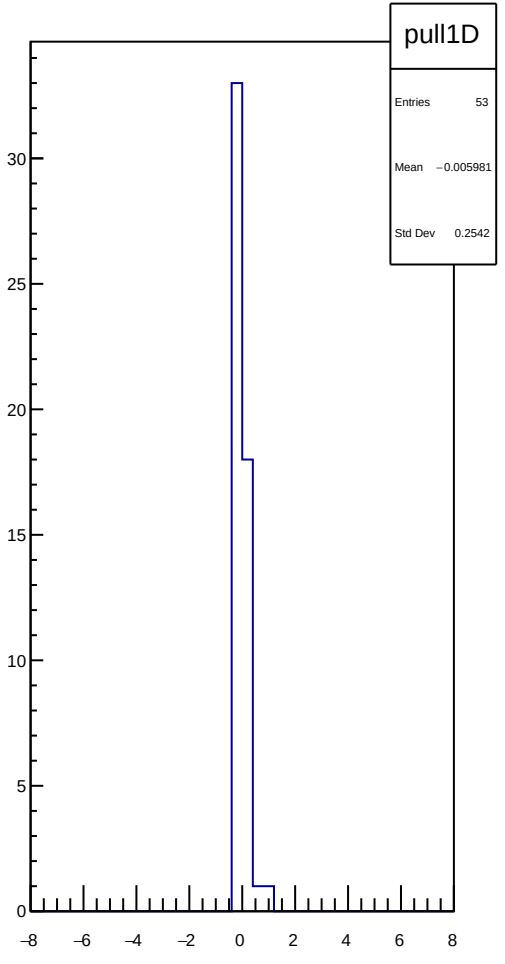

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 4.814 / 52
p0 −80.02 ± 7.285
pull
Entries 53
Mean 121.4
Std Dev 98.85
pull1D
Entries 53
Mean 0.01458
Std Dev 0.301

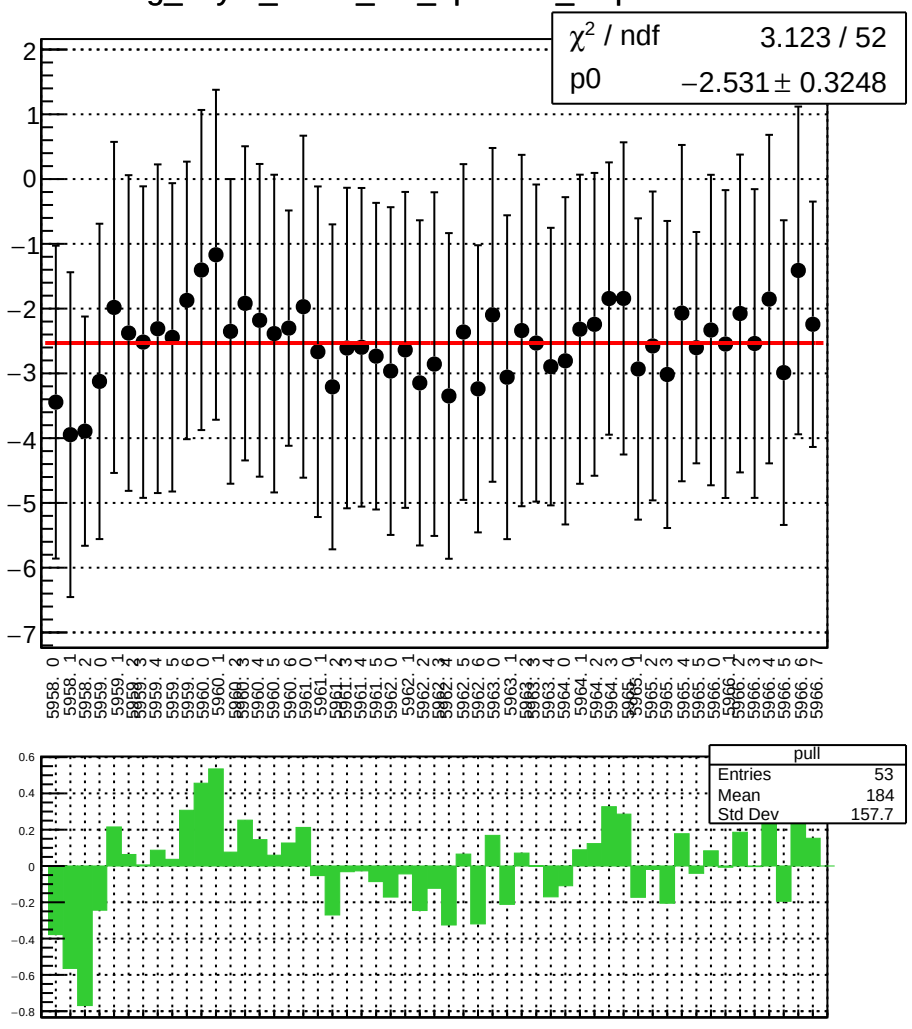

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.067 / 52
p0 8.857 ± 2.769
pull
Entries 53
Mean −128.3
Std Dev 150.1

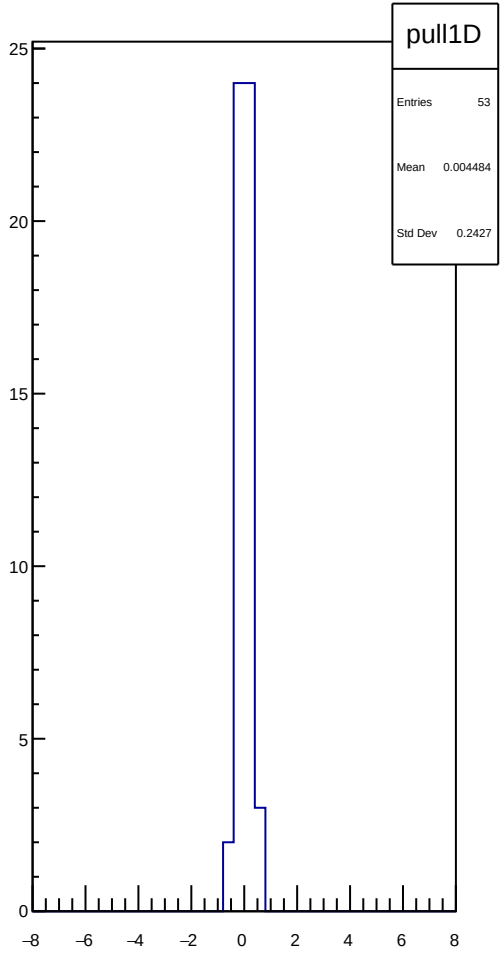

pull1D
Entries 53
Mean 0.003781
Std Dev 0.1974

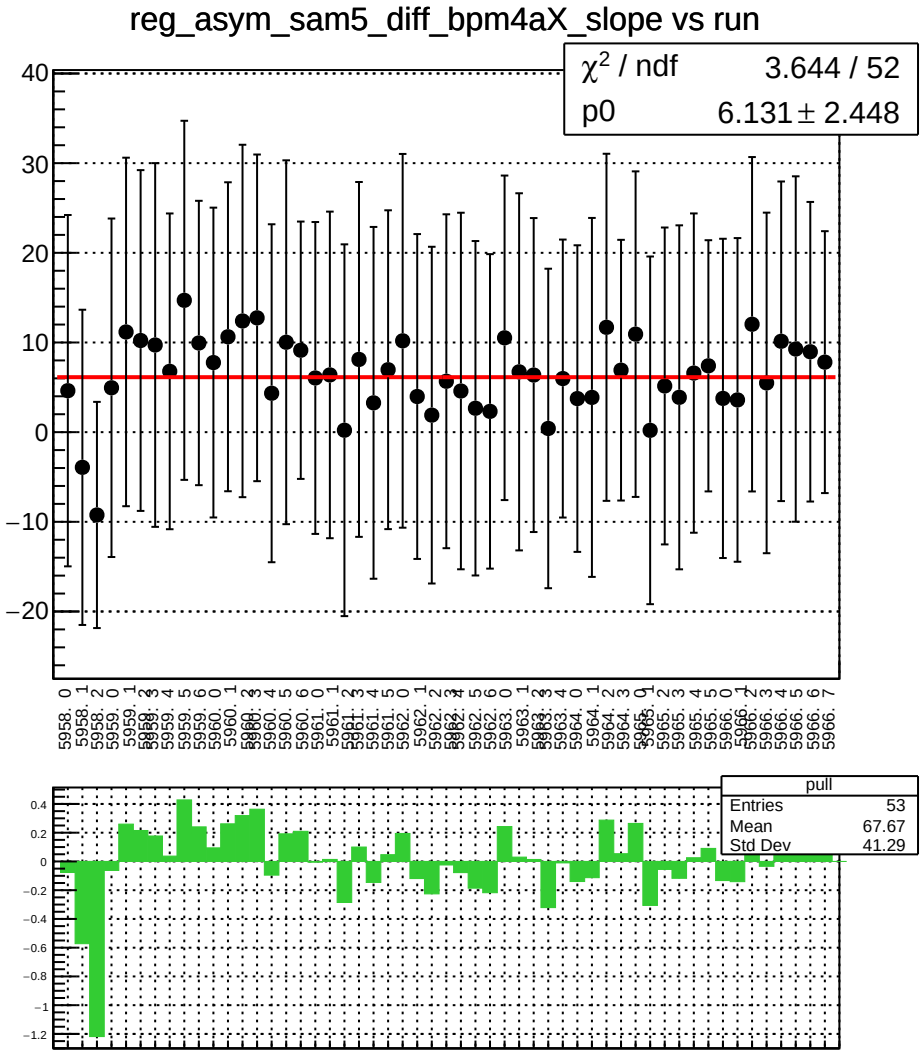

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 4.584 / 52
p0 −138.2 ± 7.719
−50
−100
−150
−200
−250
pull
Entries 53
Mean 132.1
Std Dev 109.2
1.5
1
0.5
0
−0.5
pull1D
Entries 53
Mean −0.01422
Std Dev 0.2937
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

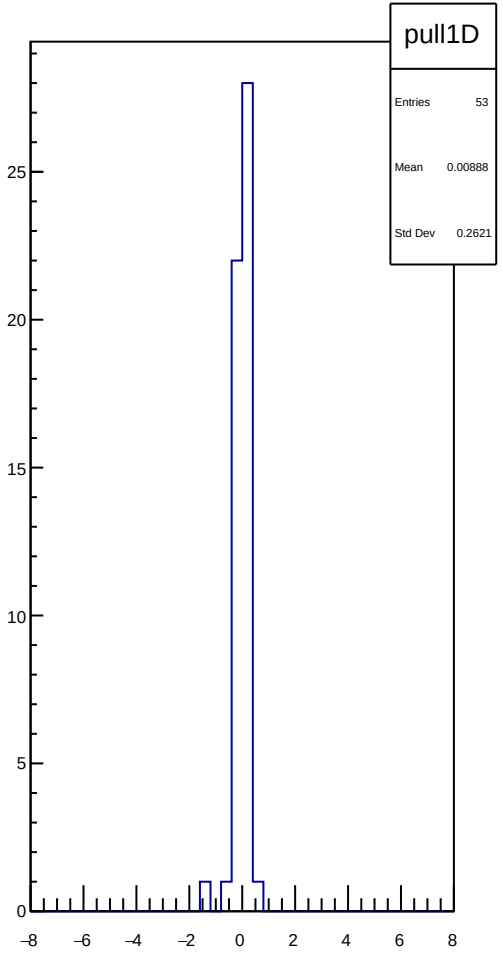

reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 3.426 / 52
p0 257.7 ± 3.568
pull
Entries 53
Mean −95.78
Std Dev 117.8

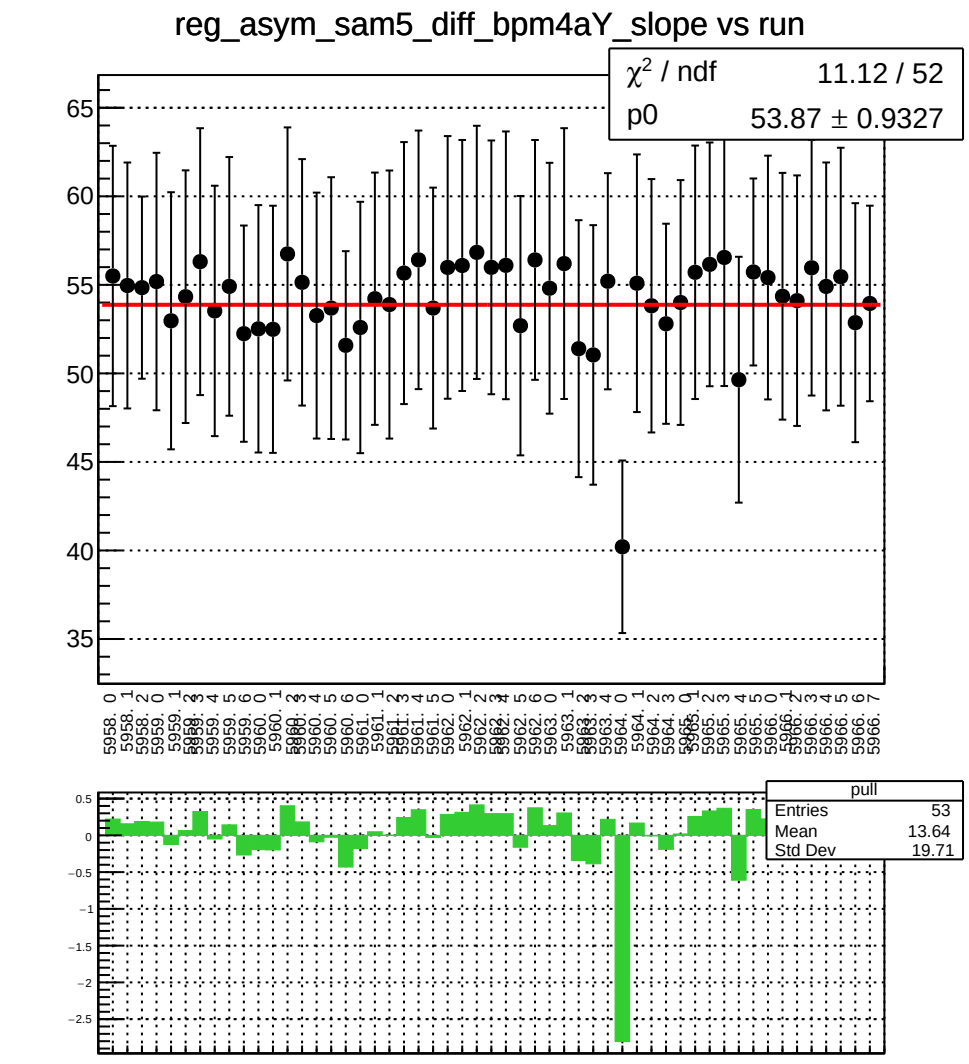

pull1D
Entries 53
Mean −0.005981
Std Dev 0.2542

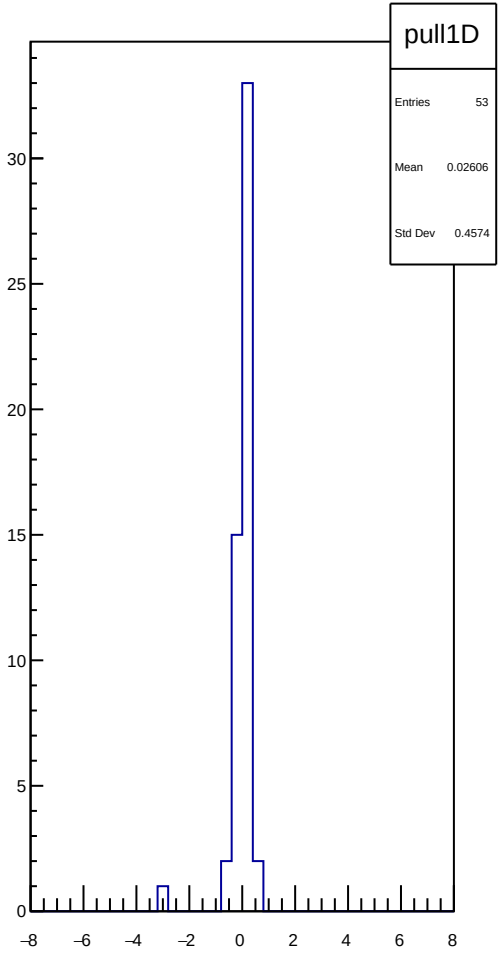

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 3.123 / 52
p0 −2.531 ± 0.3248
pull
Entries 53
Mean 184
Std Dev 157.7

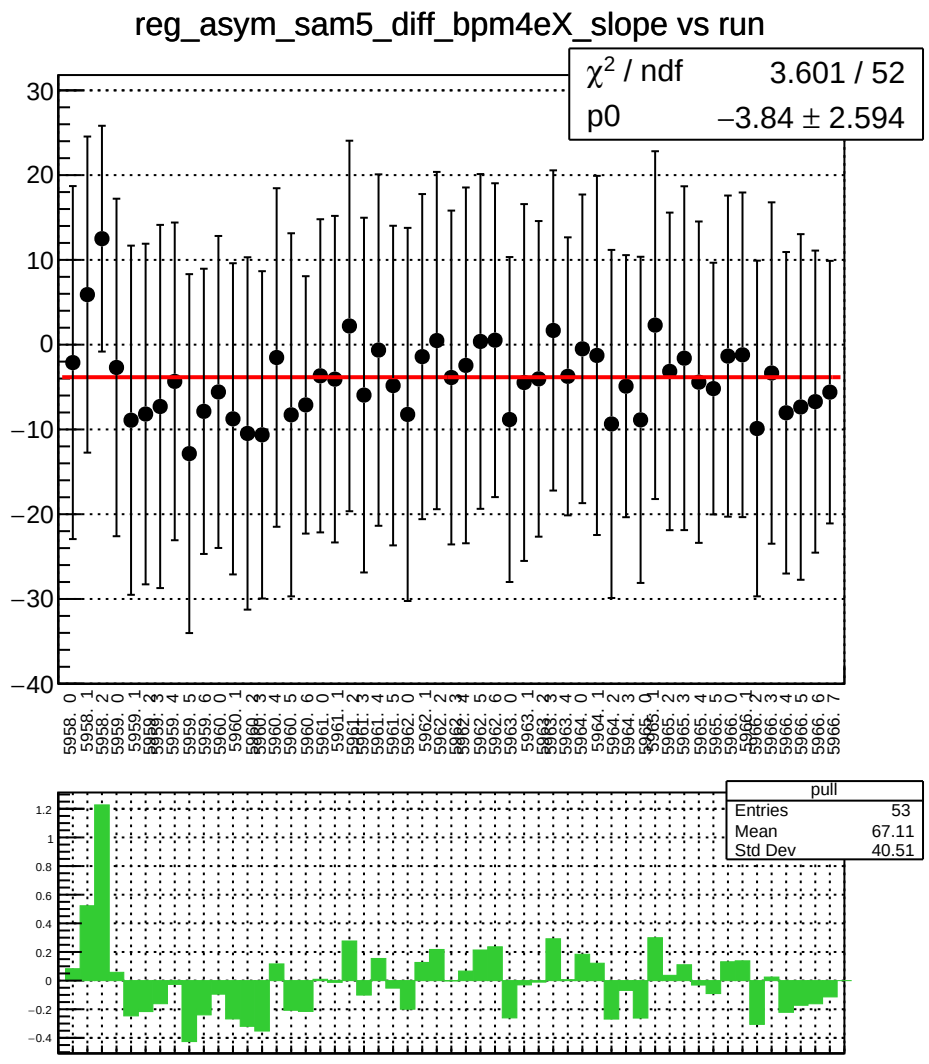

pull1D
Entries 53
Mean 0.004484
Std Dev 0.2427

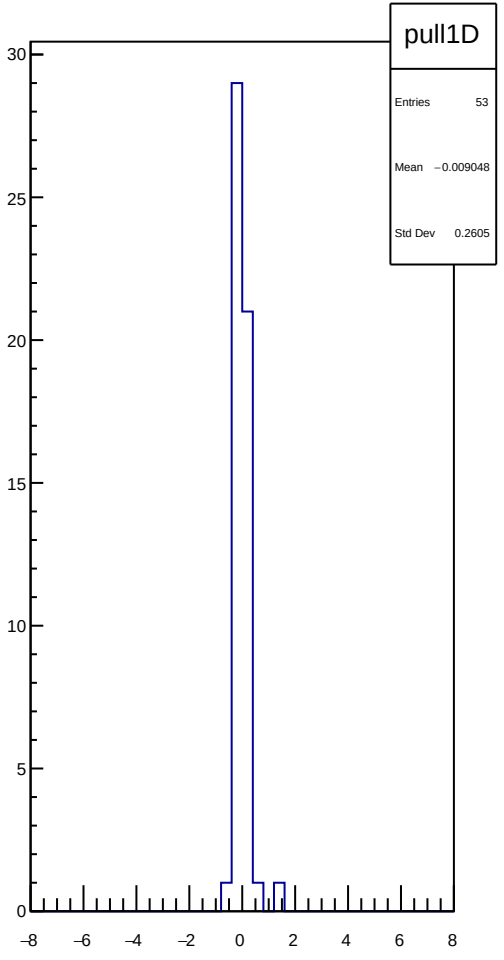

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 3.644 / 52
p0 6.131 ± 2.448
pull
Entries 53
Mean 67.67
Std Dev 41.29

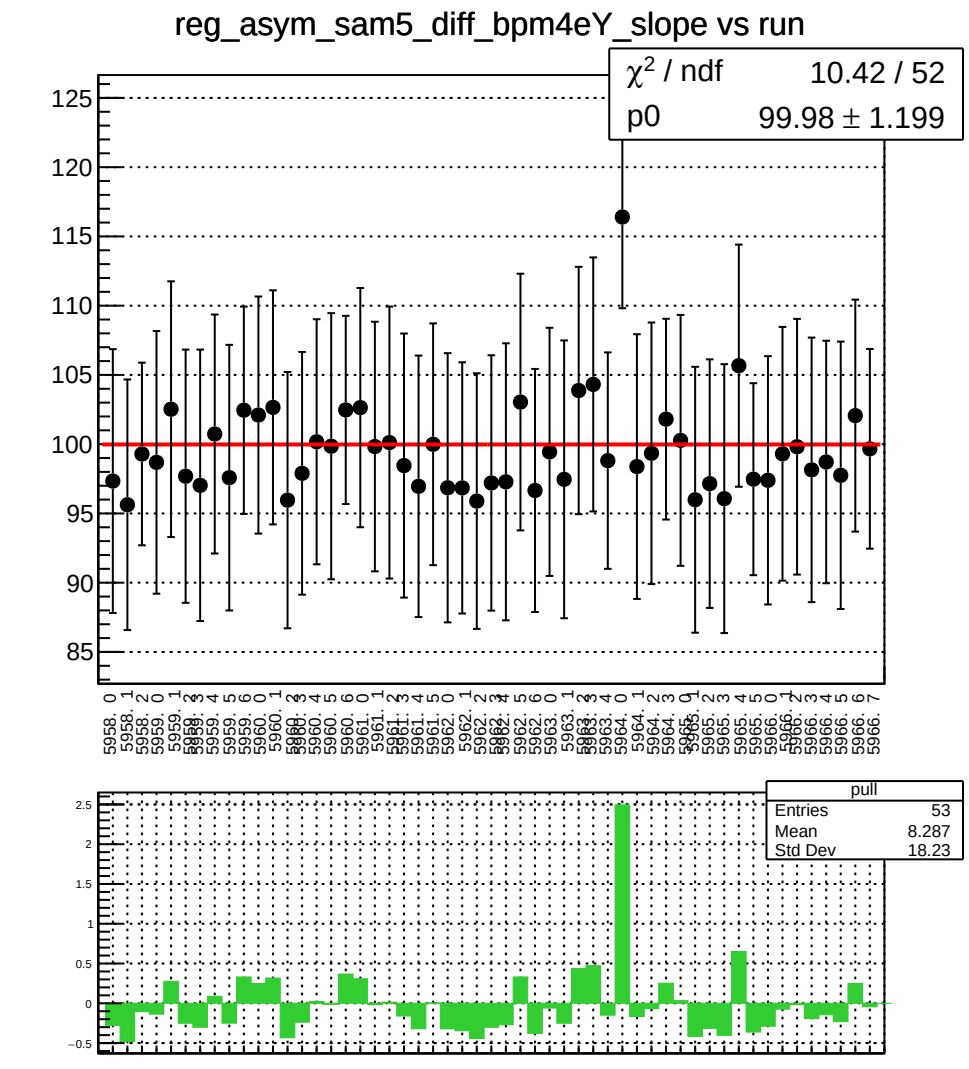

pull1D
Entries 53
Mean 0.00888
Std Dev 0.2621

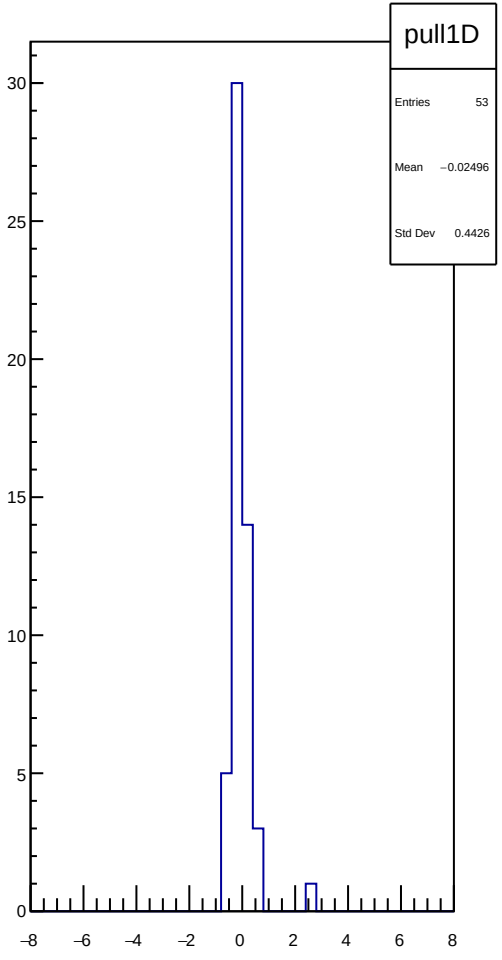

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 11.12 / 52
p0 53.87 ± 0.9327
pull
Entries 53
Mean 13.64
Std Dev 19.71

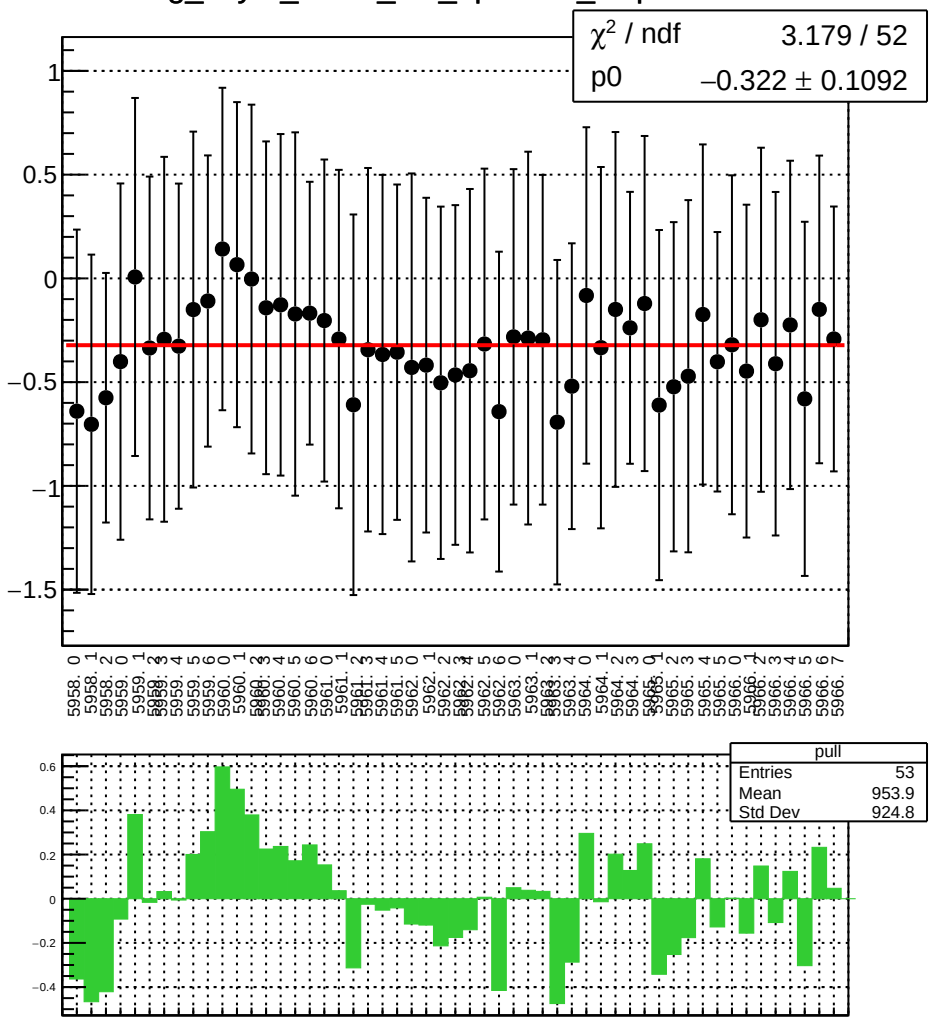

pull1D
Entries 53
Mean 0.02606
Std Dev 0.4574

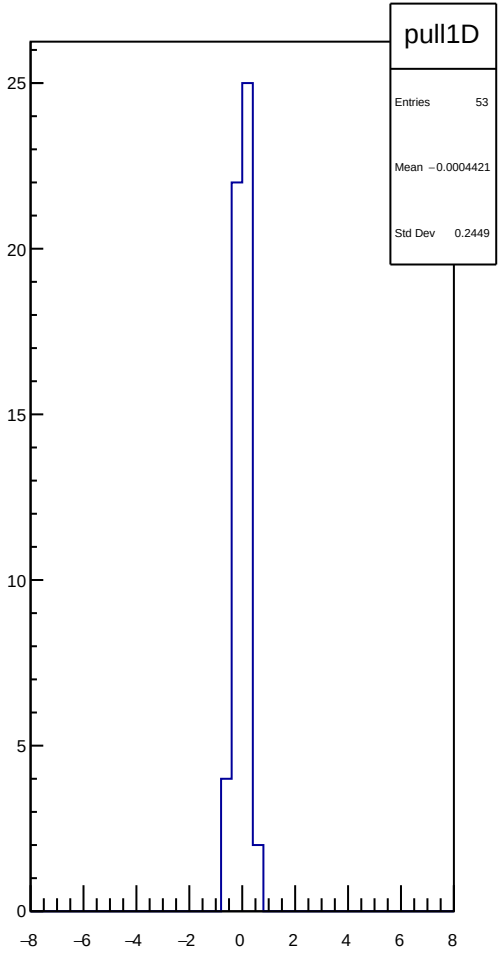

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 3.601 / 52
p0 −3.84 ± 2.594
pull
Entries 53
Mean 67.11
Std Dev 40.51

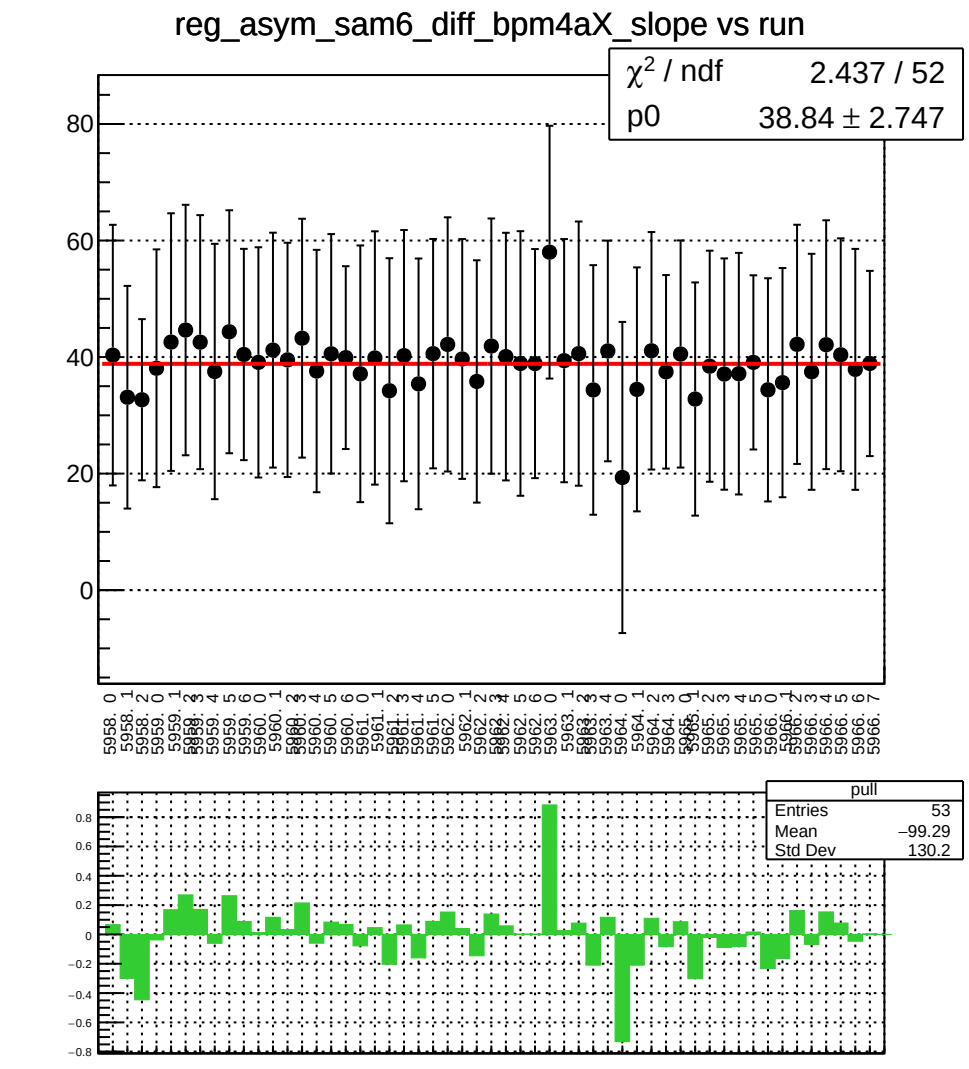

pull1D
Entries 53
Mean −0.009048
Std Dev 0.2605

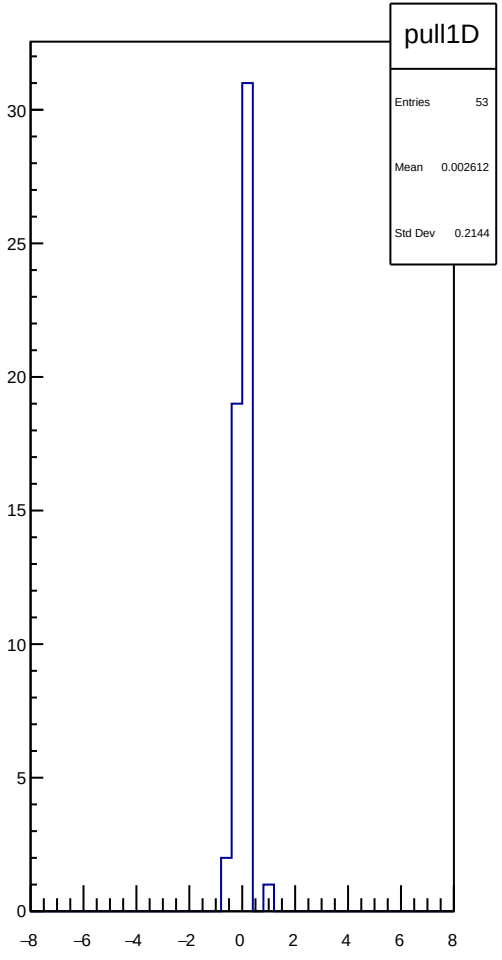

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 10.42 / 52
p0 99.98 ± 1.199
pull
Entries 53
Mean 8.287
Std Dev 18.23

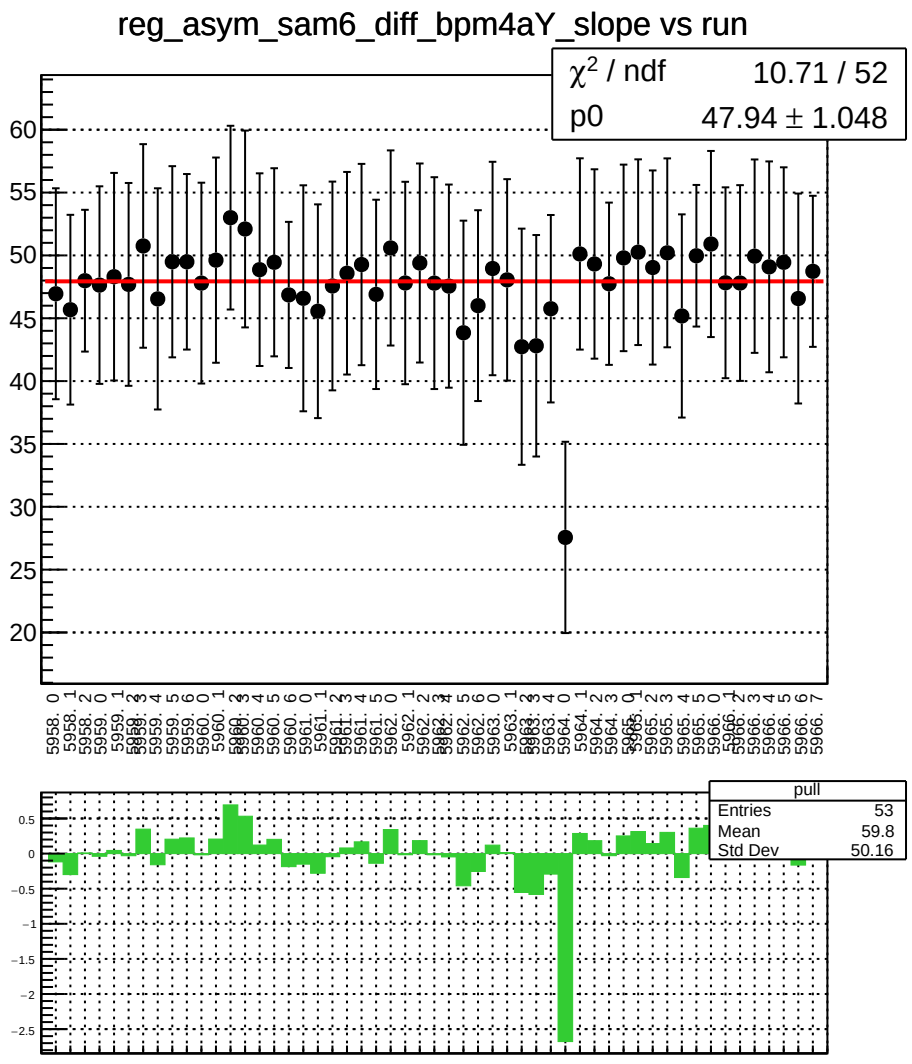

pull1D
Entries 53
Mean −0.02496
Std Dev 0.4426

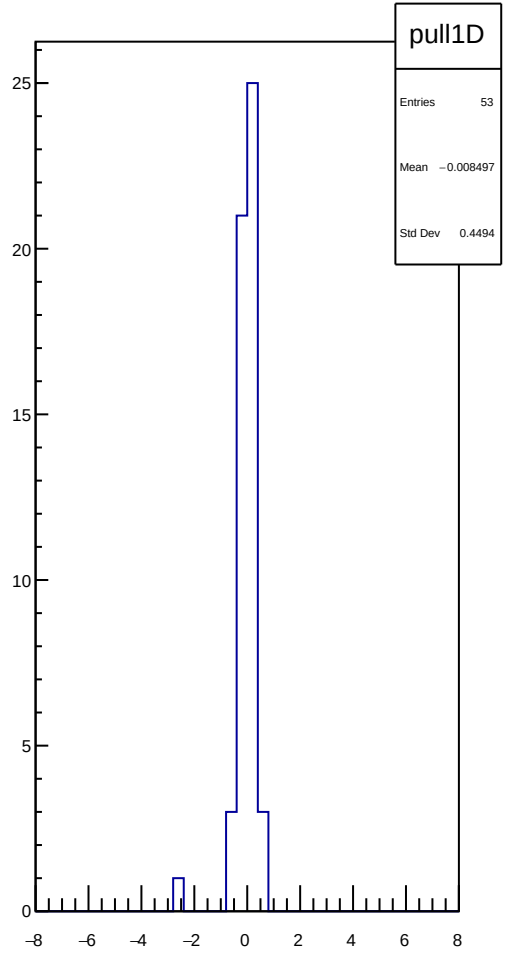

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 3.179 / 52
p0 −0.322 ± 0.1092
pull
Entries 53
Mean 953.9
Std Dev 924.8

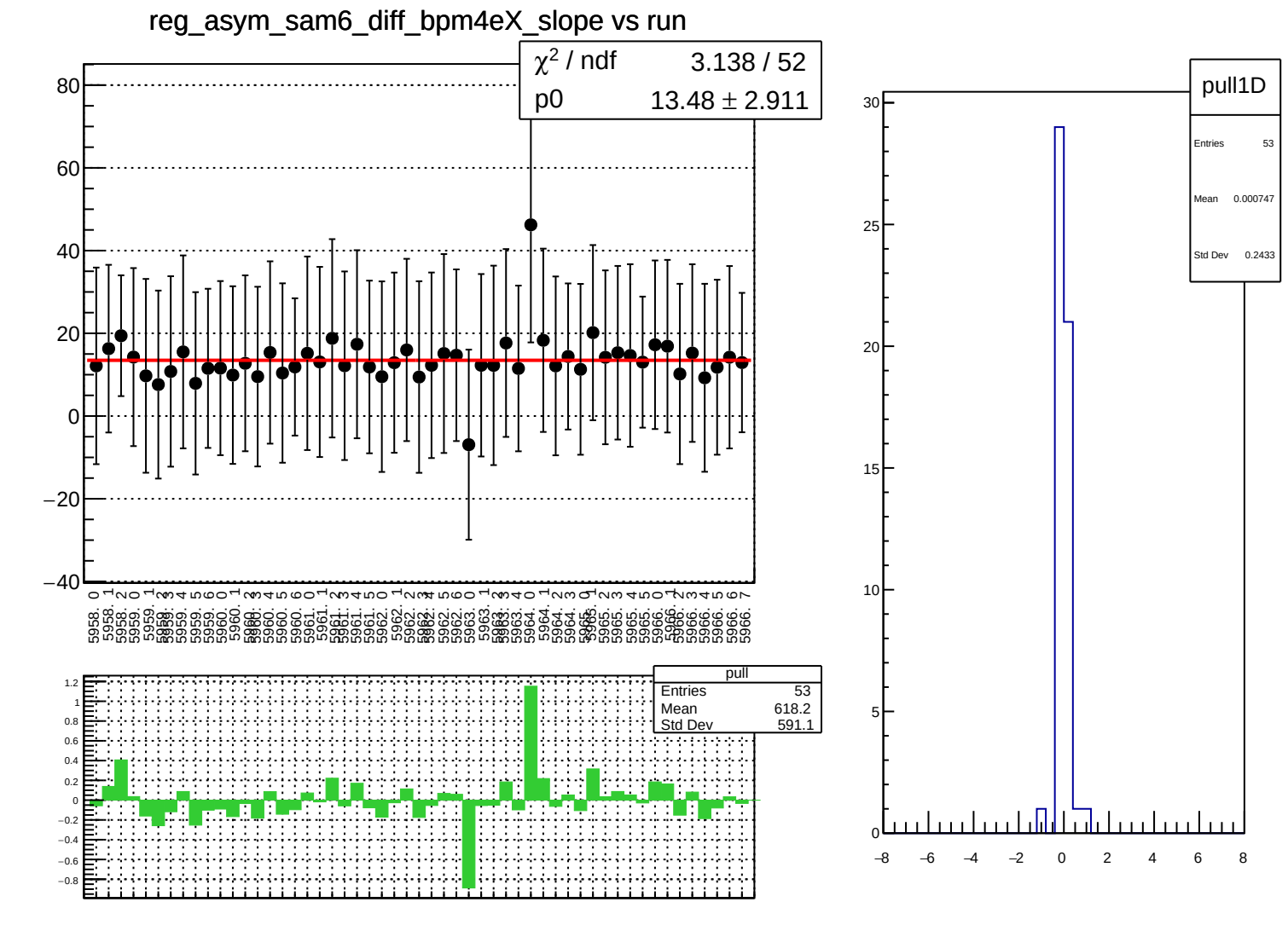

pull1D
Entries 53
Mean −0.0004421
Std Dev 0.2449

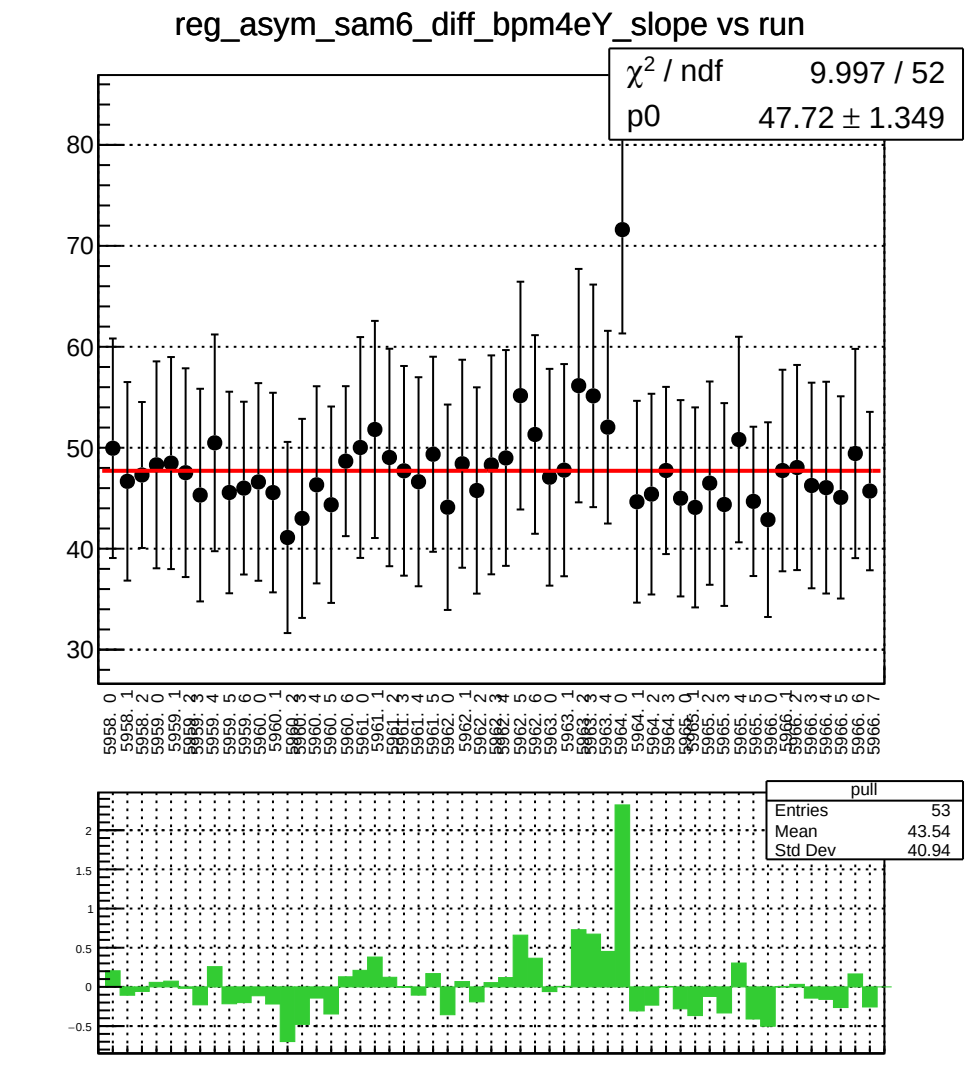

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 2.437 / 52
p0 38.84 ± 2.747
pull
Entries 53
Mean −99.29
Std Dev 130.2

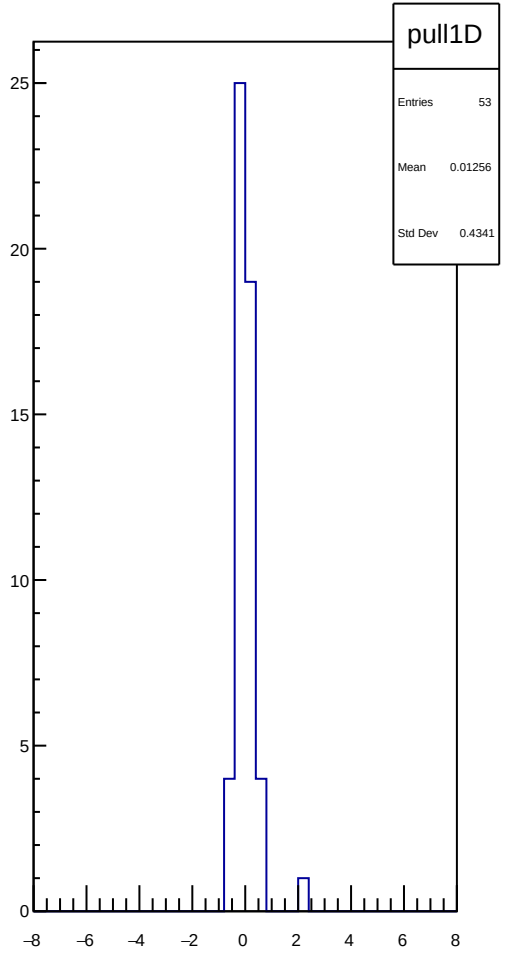

pull1D
Entries 53
Mean 0.002612
Std Dev 0.2144

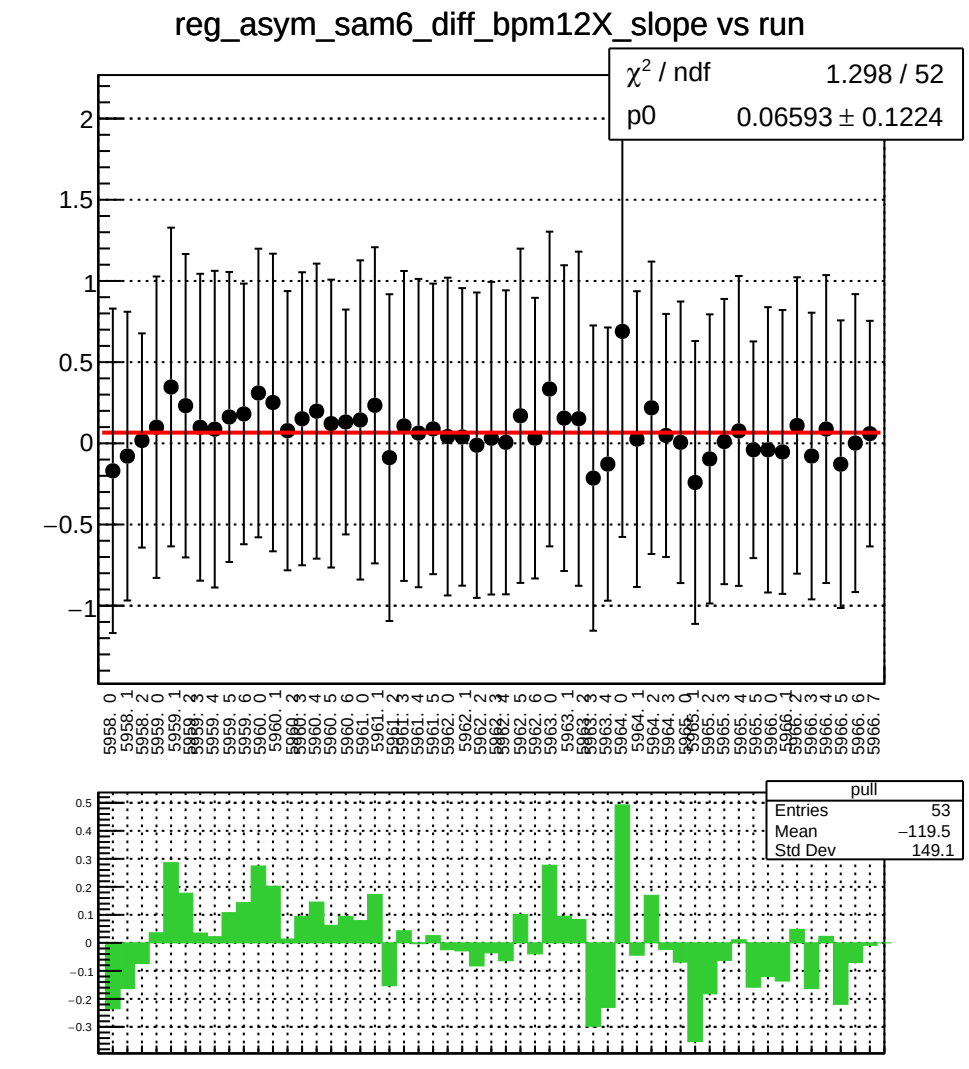

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 10.71 / 52
p0 47.94 ± 1.048
pull
Entries 53
Mean 59.8
Std Dev 50.16

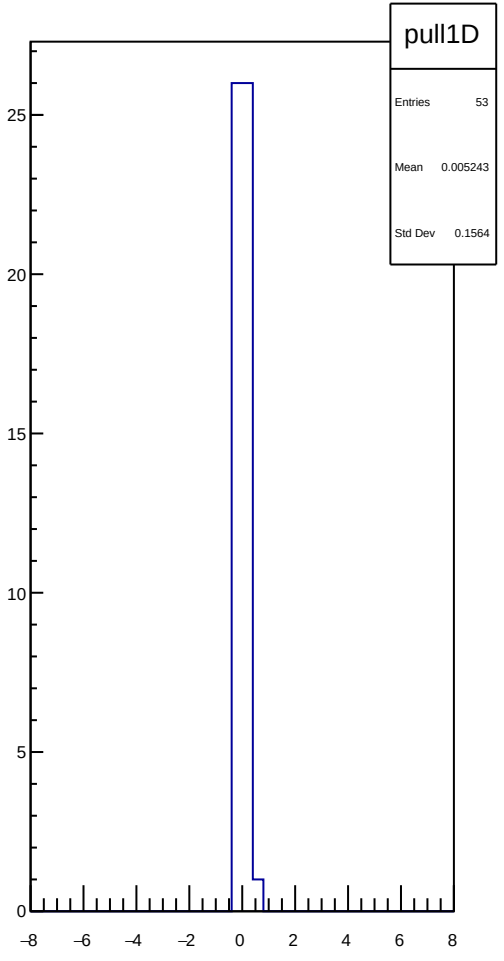

pull1D
Entries 53
Mean −0.008497
Std Dev 0.4494

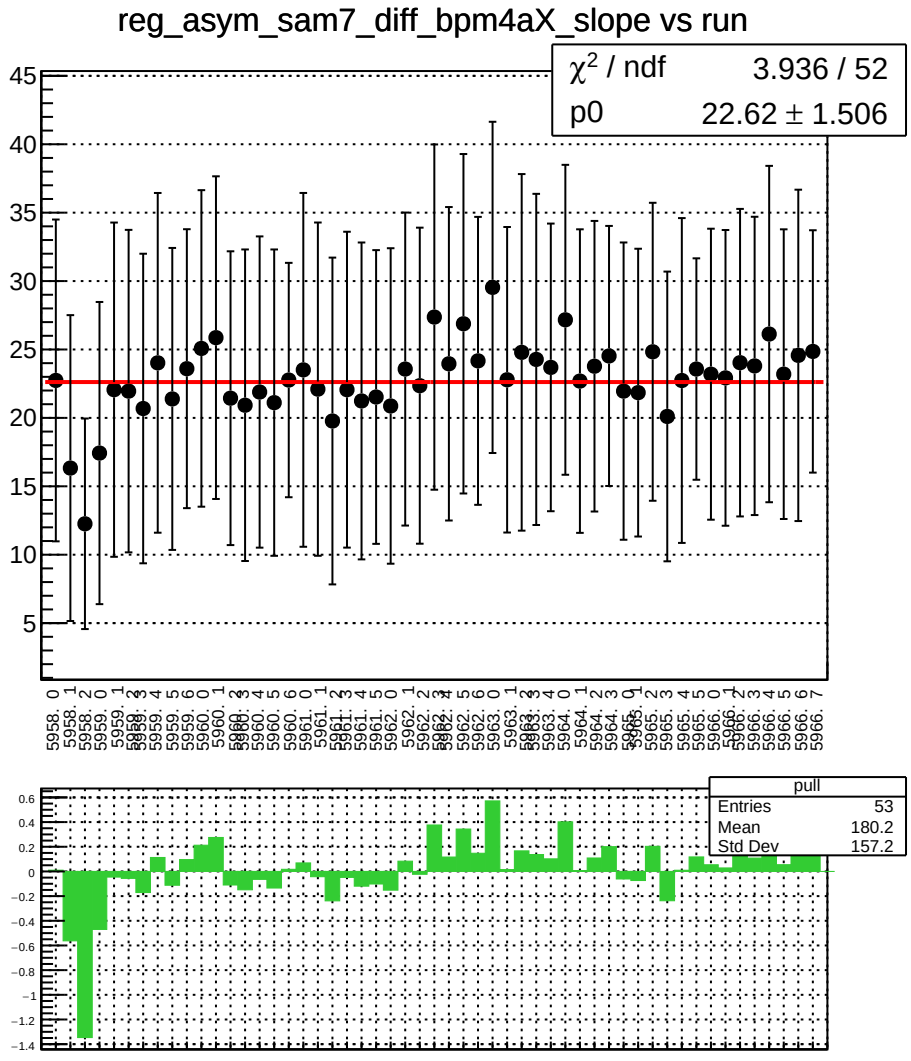

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.138 / 52
p0 13.48 ± 2.911
pull
Entries 53
Mean 618.2
Std Dev 591.1
pull1D
Entries 53
Mean 0.000747
Std Dev 0.2433

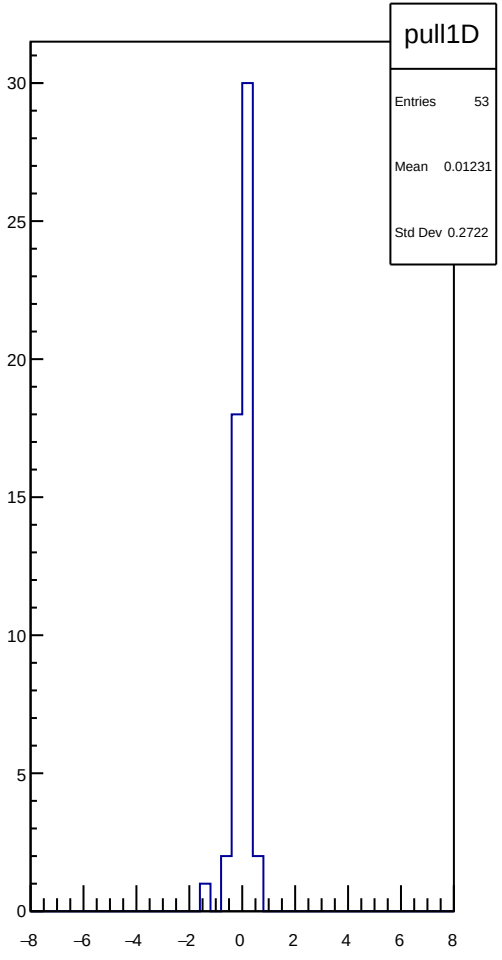

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 9.997 / 52
p0 47.72 ± 1.349
pull
Entries 53
Mean 43.54
Std Dev 40.94

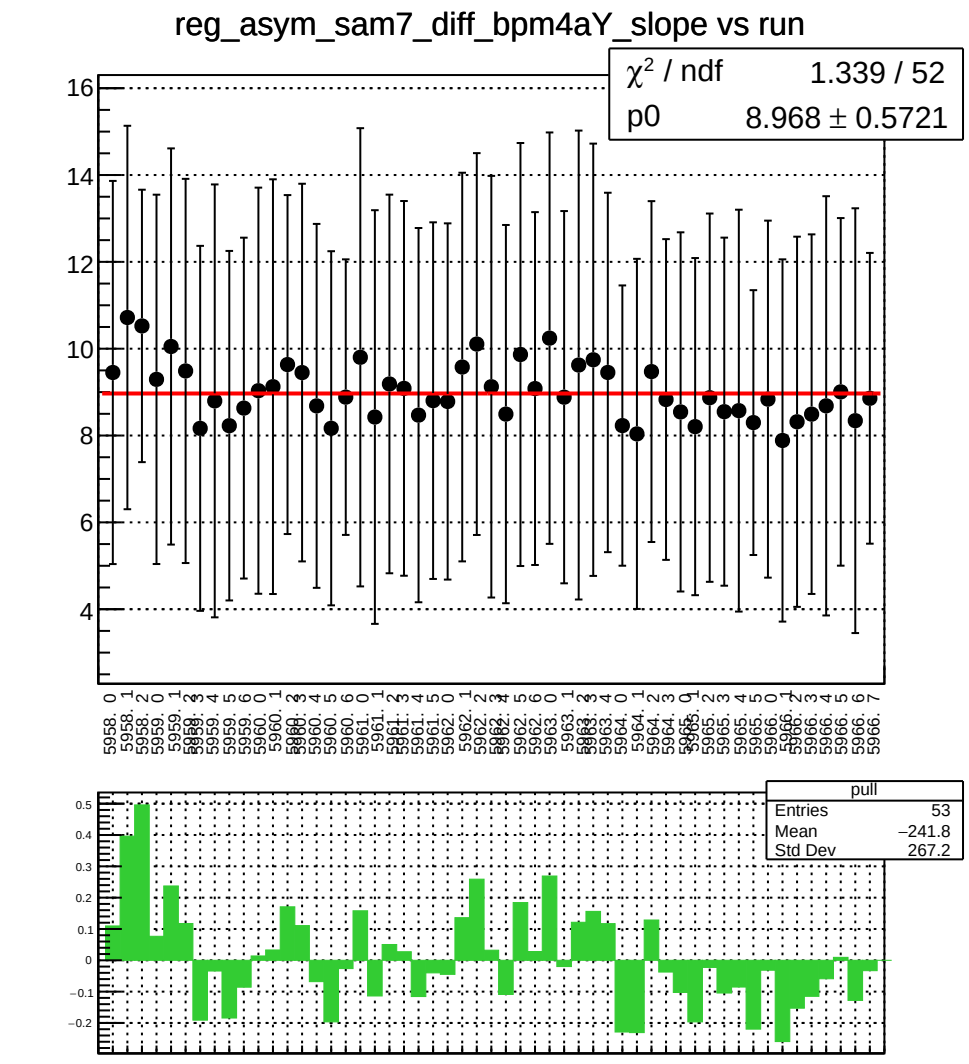

pull1D
Entries 53
Mean 0.01256
Std Dev 0.4341

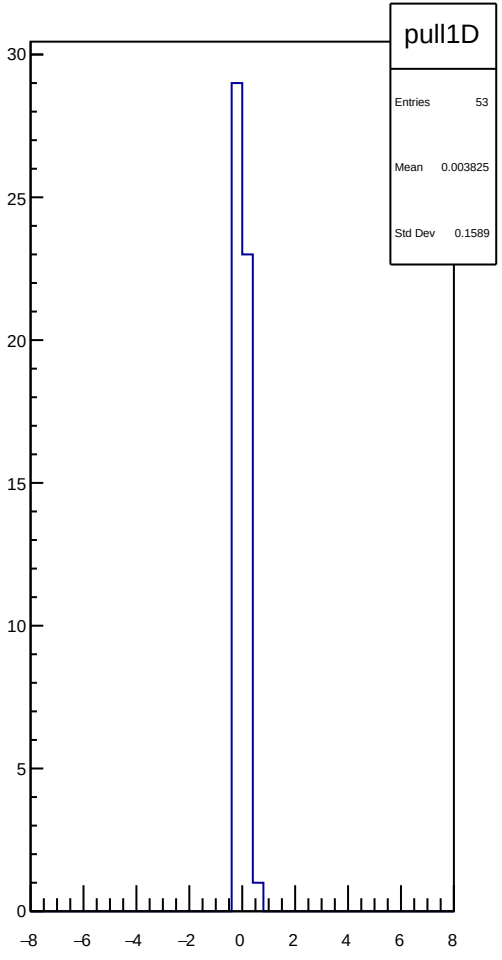

reg_asym_sam6_diff_bpm12X_slope vs run
χ^2 / ndf 1.298 / 52
p0 0.06593 ± 0.1224
pull
Entries 53
Mean −119.5
Std Dev 149.1

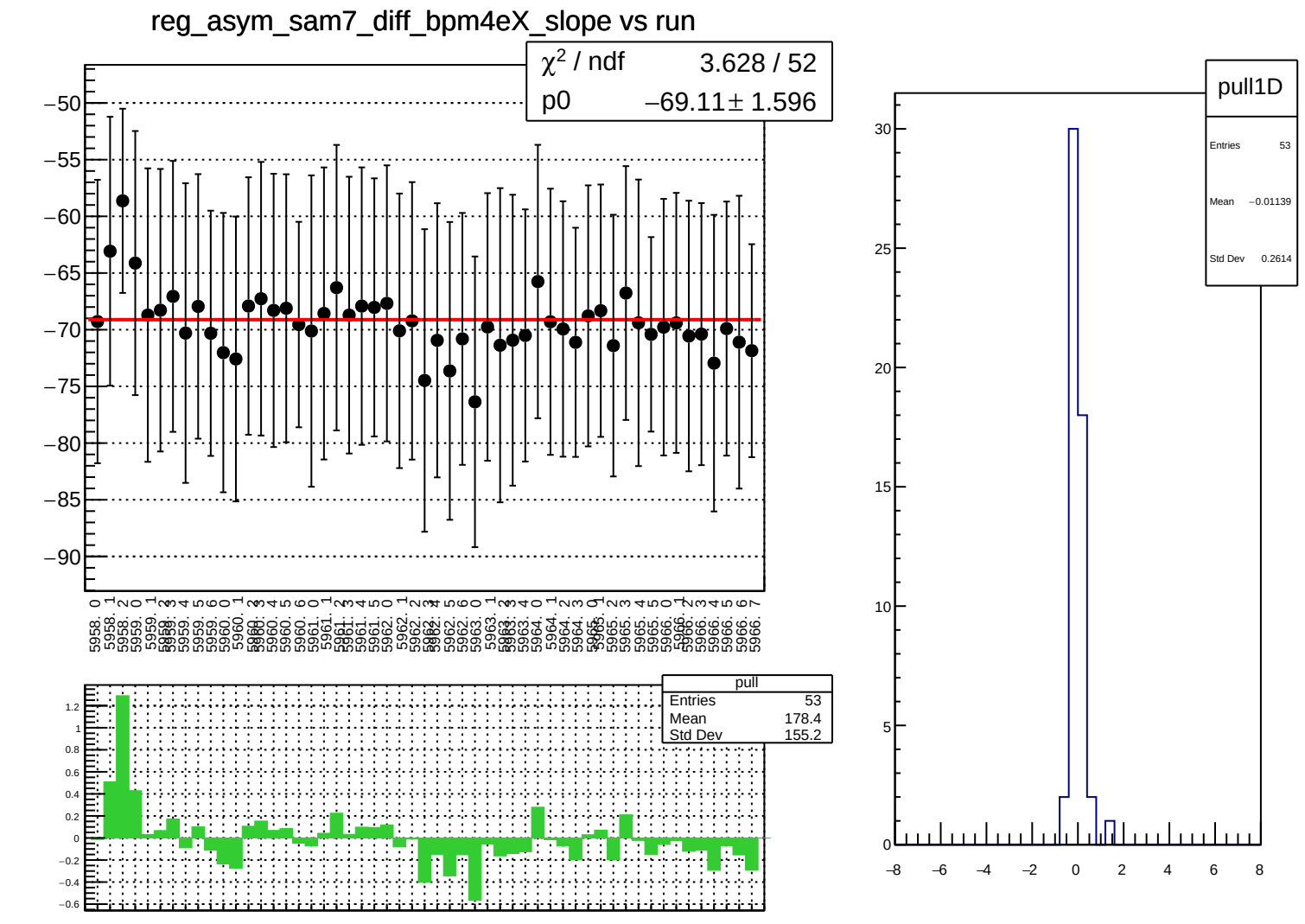

pull1D
Entries 53
Mean 0.005243
Std Dev 0.1564

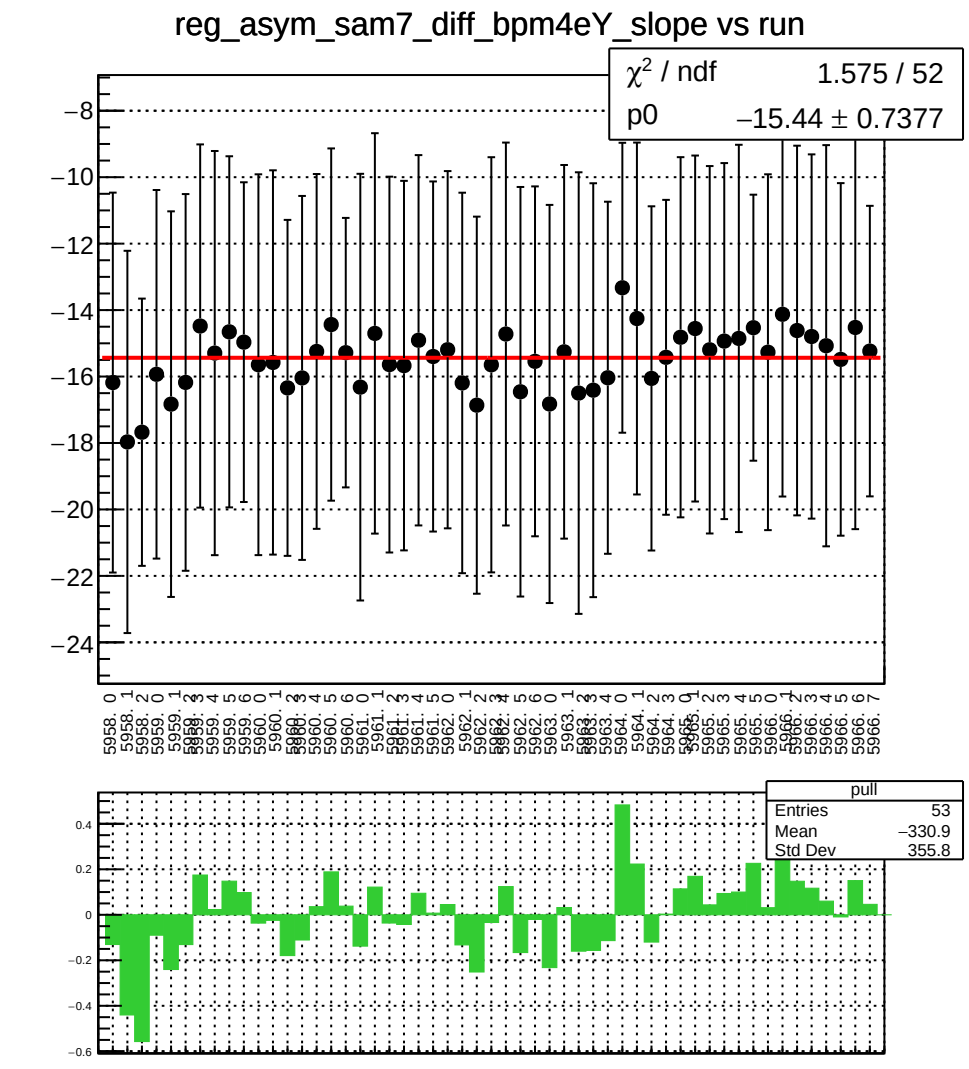

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 3.936 / 52
p0 22.62 ± 1.506
pull
Entries 53
Mean 180.2
Std Dev 157.2

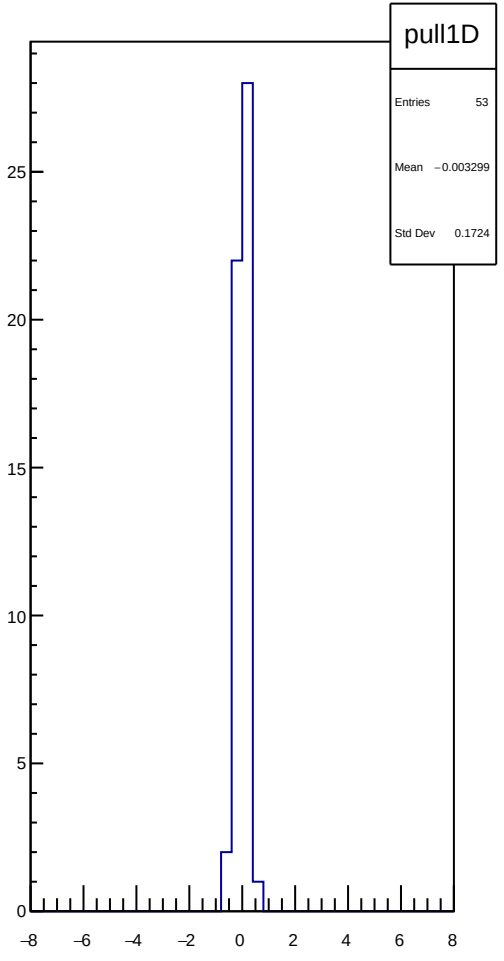

pull1D
Entries 53
Mean 0.01231
Std Dev 0.2722

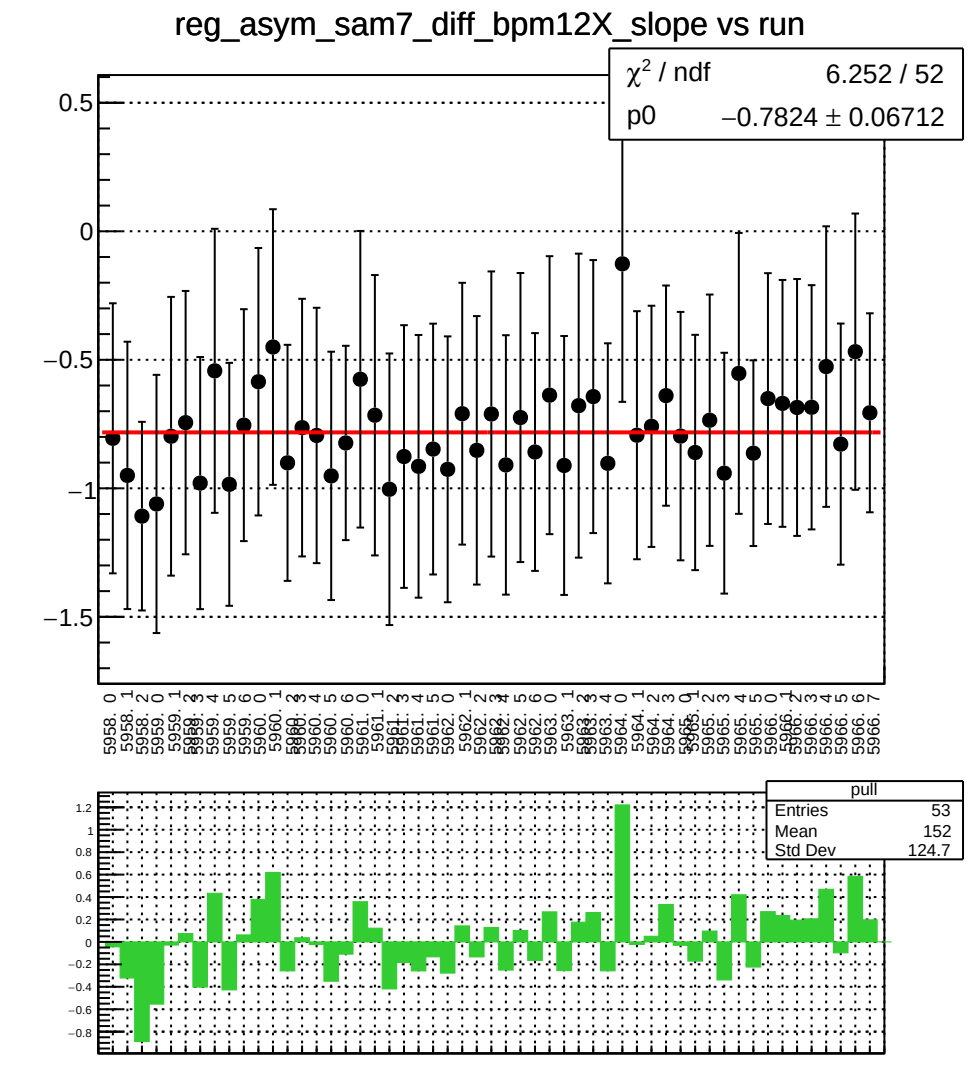

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 1.339 / 52
p0 8.968 ± 0.5721
pull
Entries 53
Mean −241.8
Std Dev 267.2

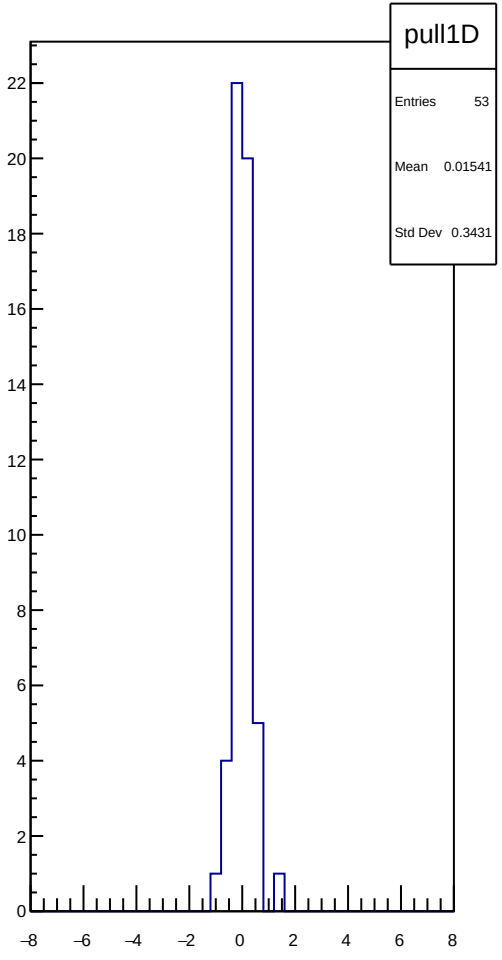

pull1D
Entries 53
Mean 0.003825
Std Dev 0.1589

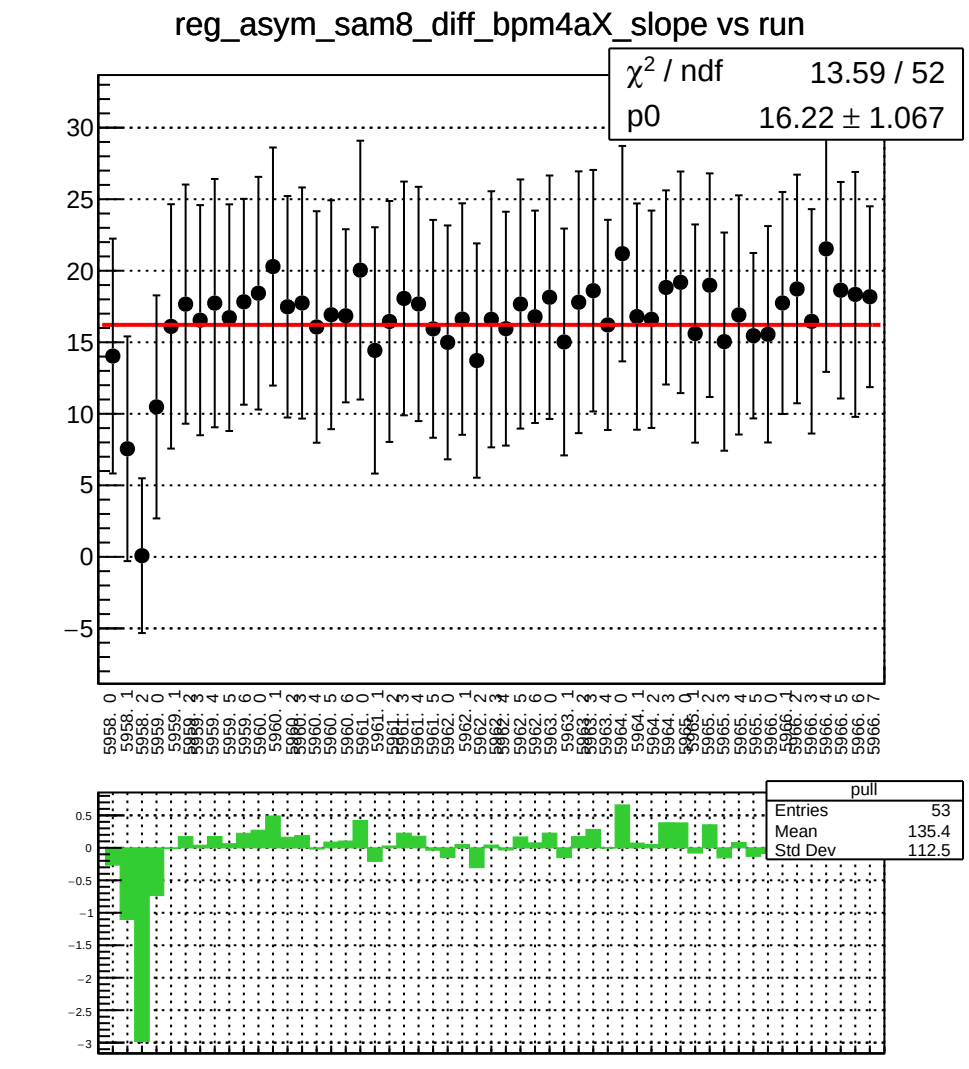

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 3.628 / 52
p0 −69.11 ± 1.596
pull
Entries 53
Mean 178.4
Std Dev 155.2
pull1D
Entries 53
Mean −0.01139
Std Dev 0.2614

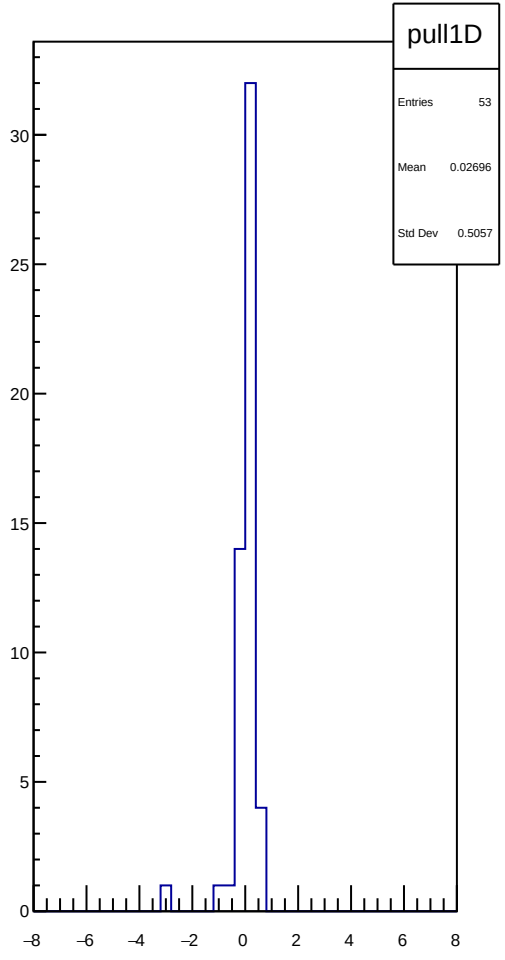

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 1.575 / 52
p0 −15.44 ± 0.7377
pull
Entries 53
Mean −330.9
Std Dev 355.8

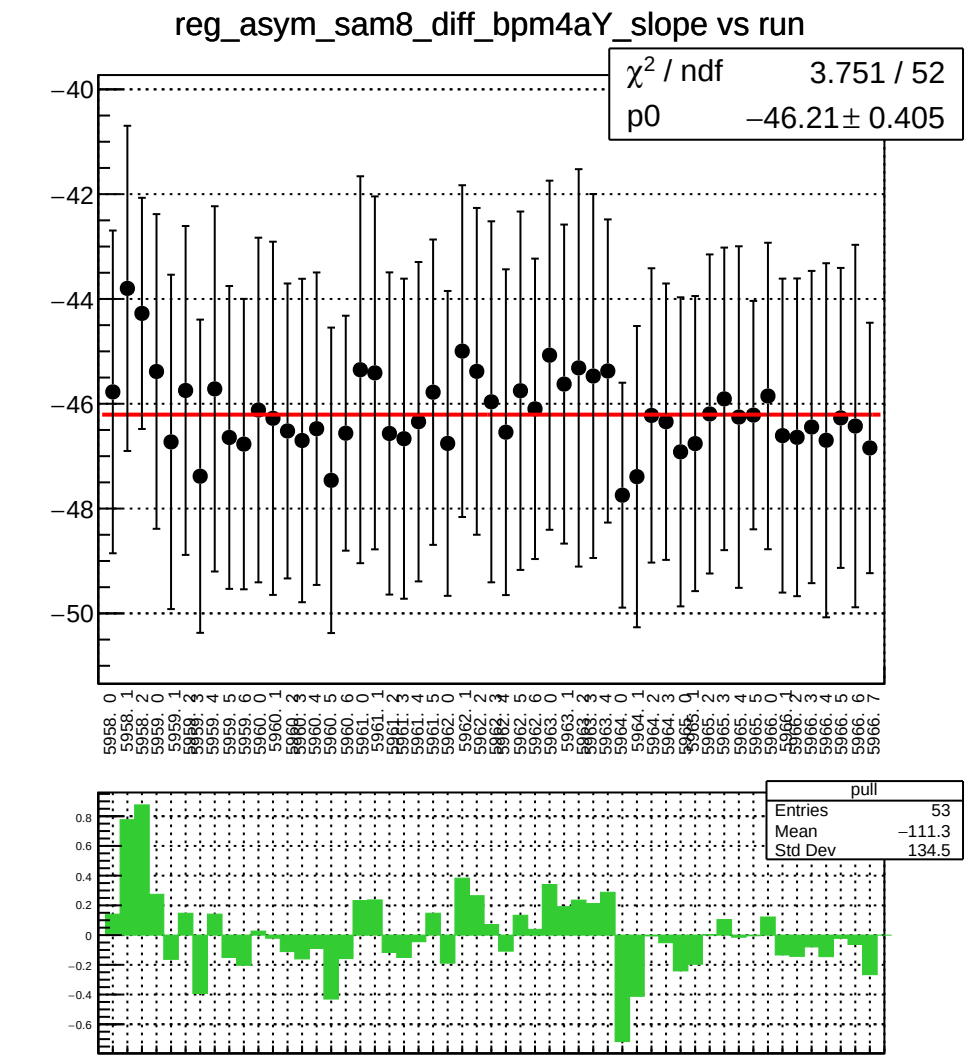

pull1D
Entries 53
Mean −0.003299
Std Dev 0.1724

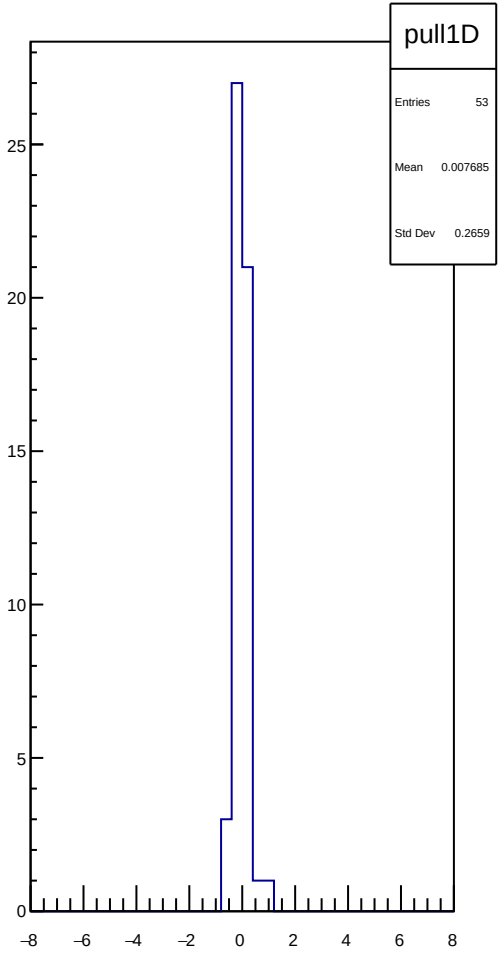

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 6.252 / 52
p0 −0.7824 ± 0.06712
pull
Entries 53
Mean 152
Std Dev 124.7

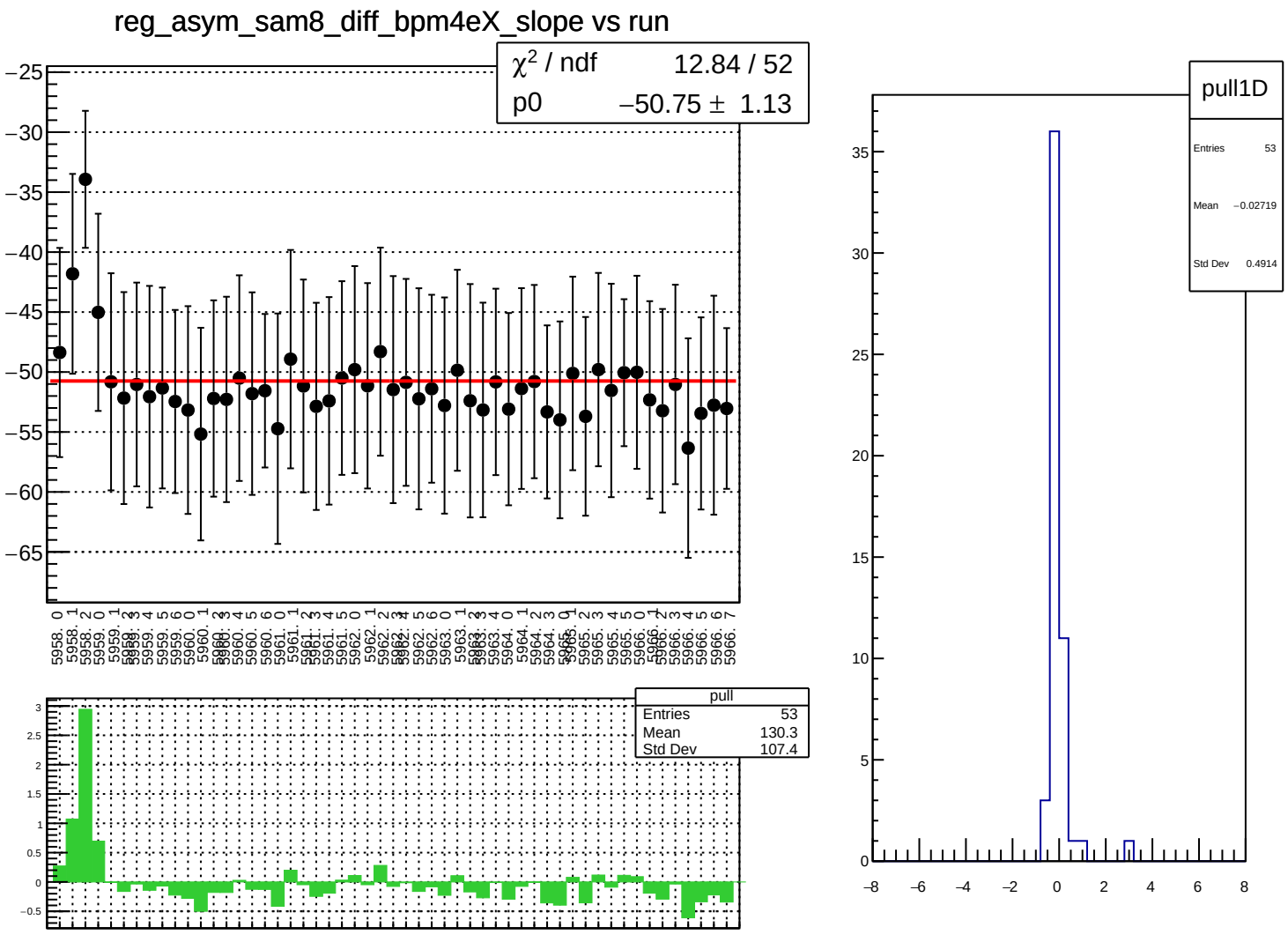

pull1D
Entries 53
Mean 0.01541
Std Dev 0.3431

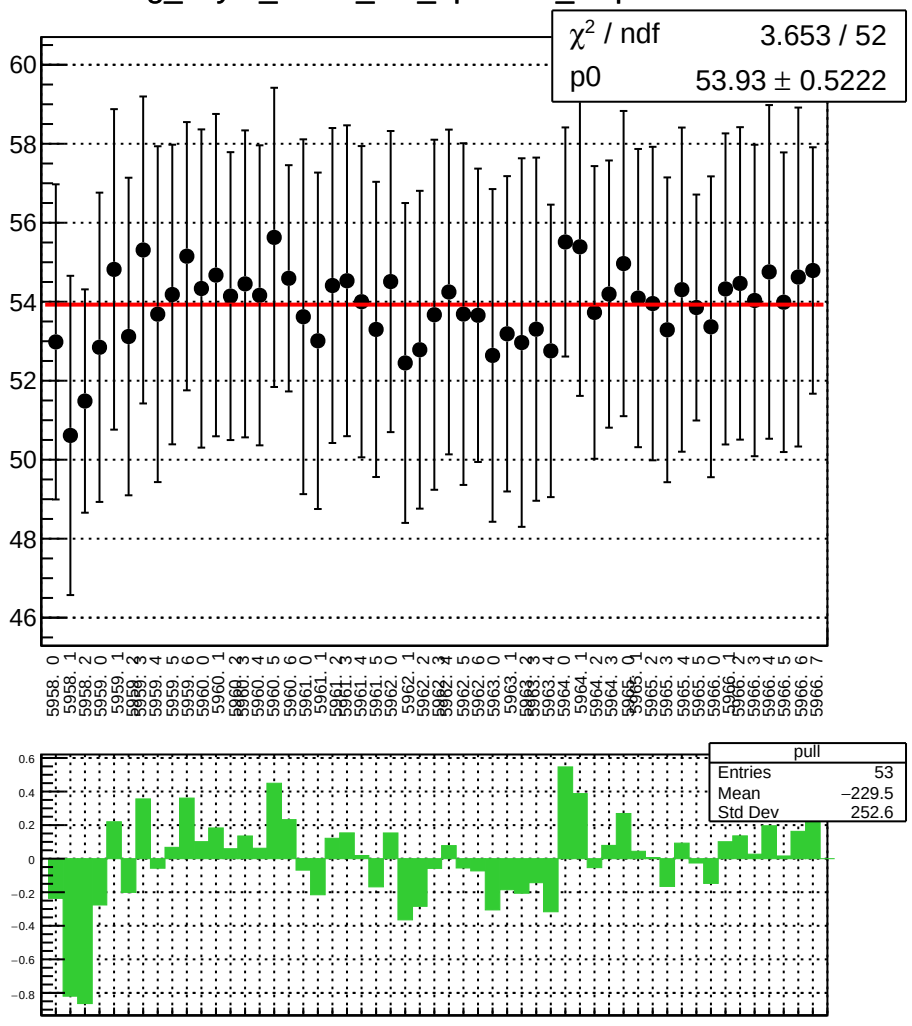

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 13.59 / 52
p0 16.22 ± 1.067
pull
Entries 53
Mean 135.4
Std Dev 112.5

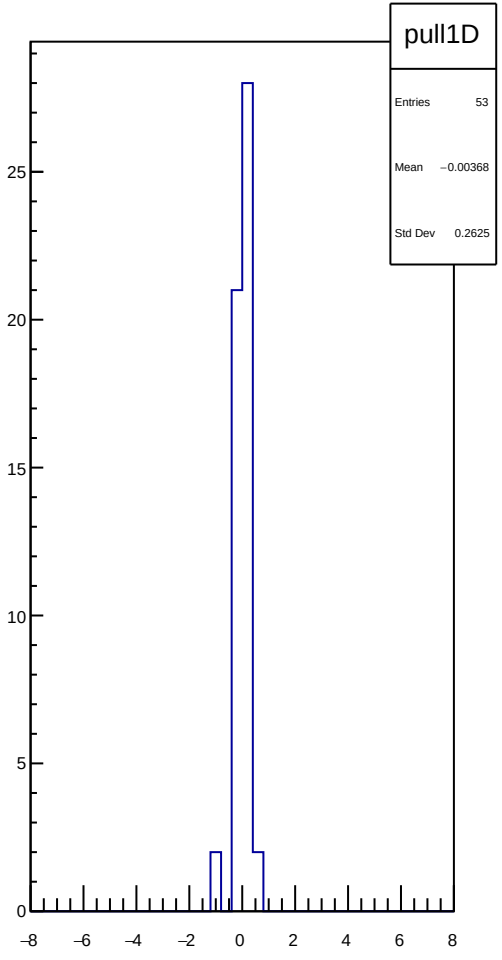

pull1D
Entries 53
Mean 0.02696
Std Dev 0.5057

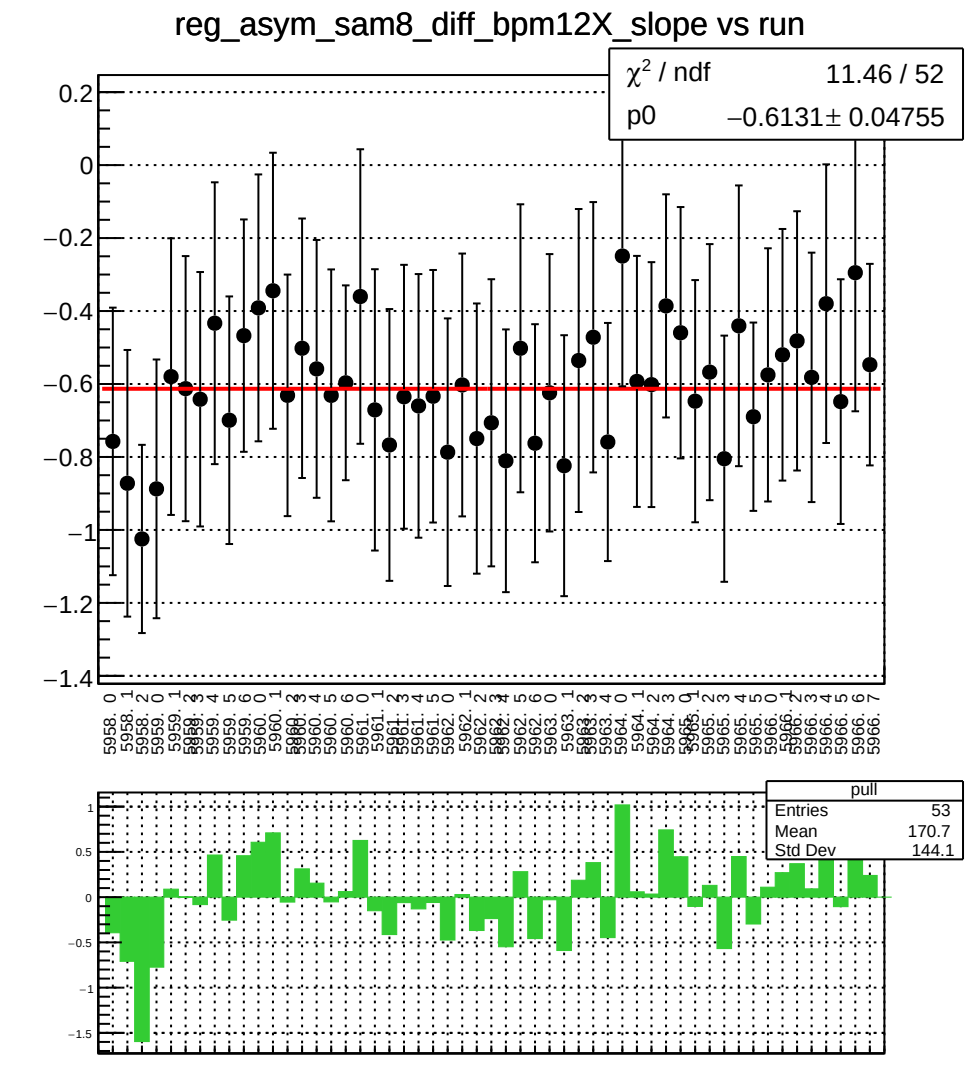

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 3.751 / 52
p0 −46.21 ± 0.405
pull
Entries 53
Mean −111.3
Std Dev 134.5

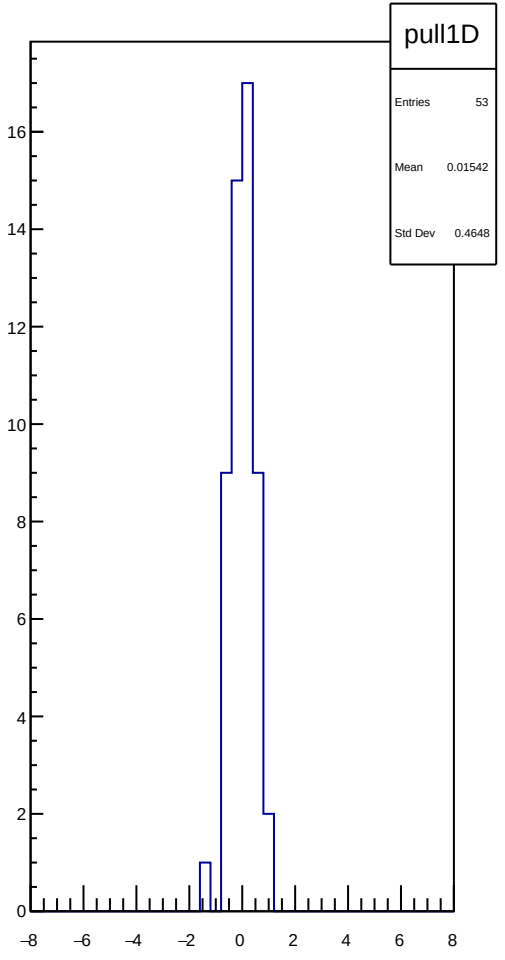

pull1D
Entries 53
Mean 0.007685
Std Dev 0.2659

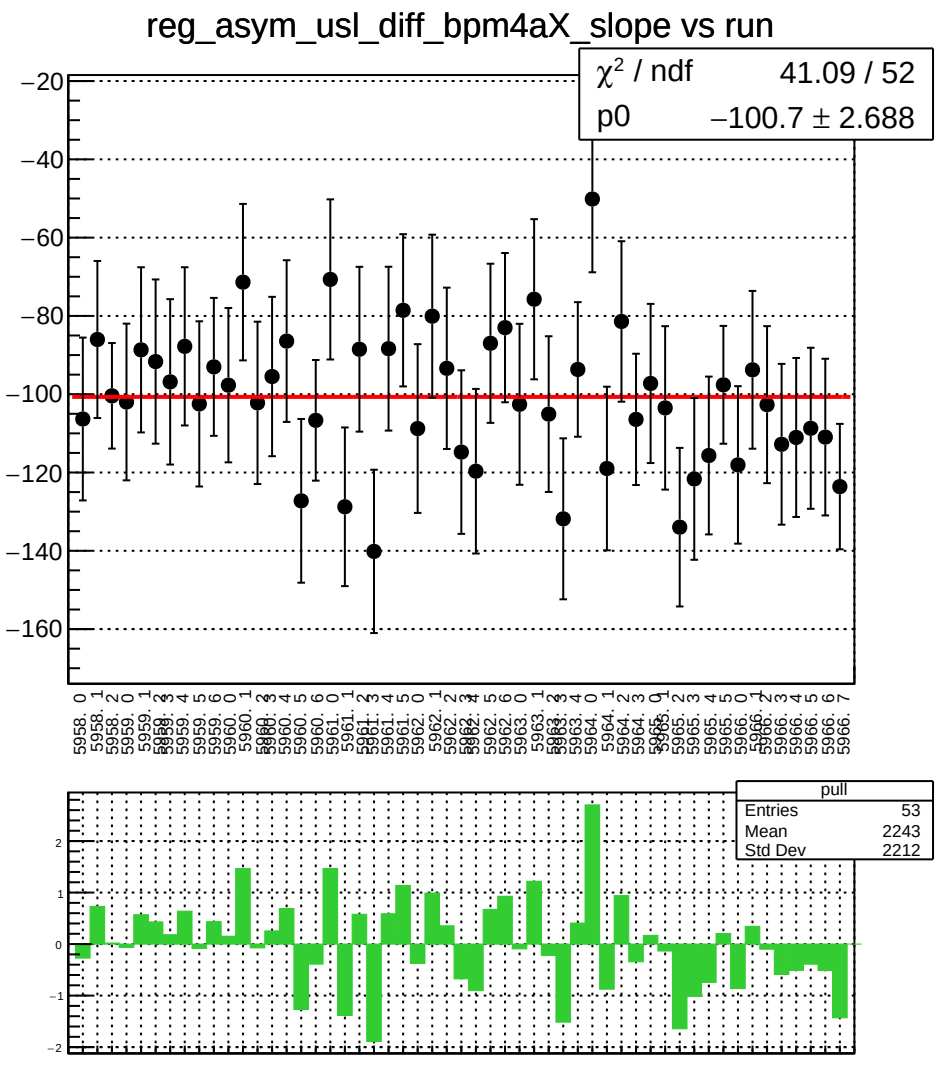

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 12.84 / 52
p0 −50.75 ± 1.13
pull
Entries 53
Mean 130.3
Std Dev 107.4
pull1D
Entries 53
Mean −0.02719
Std Dev 0.4914

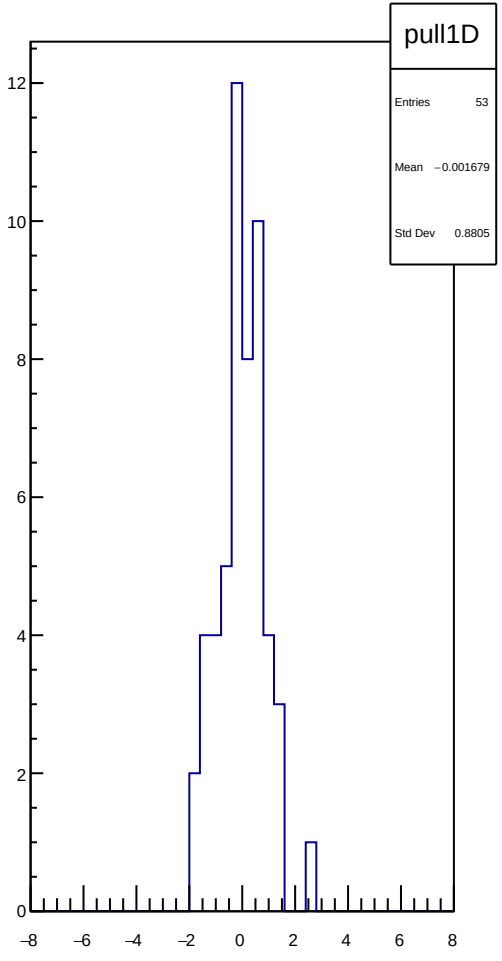

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 3.653 / 52
p0 53.93 ± 0.5222
pull
Entries 53
Mean −229.5
Std Dev 252.6

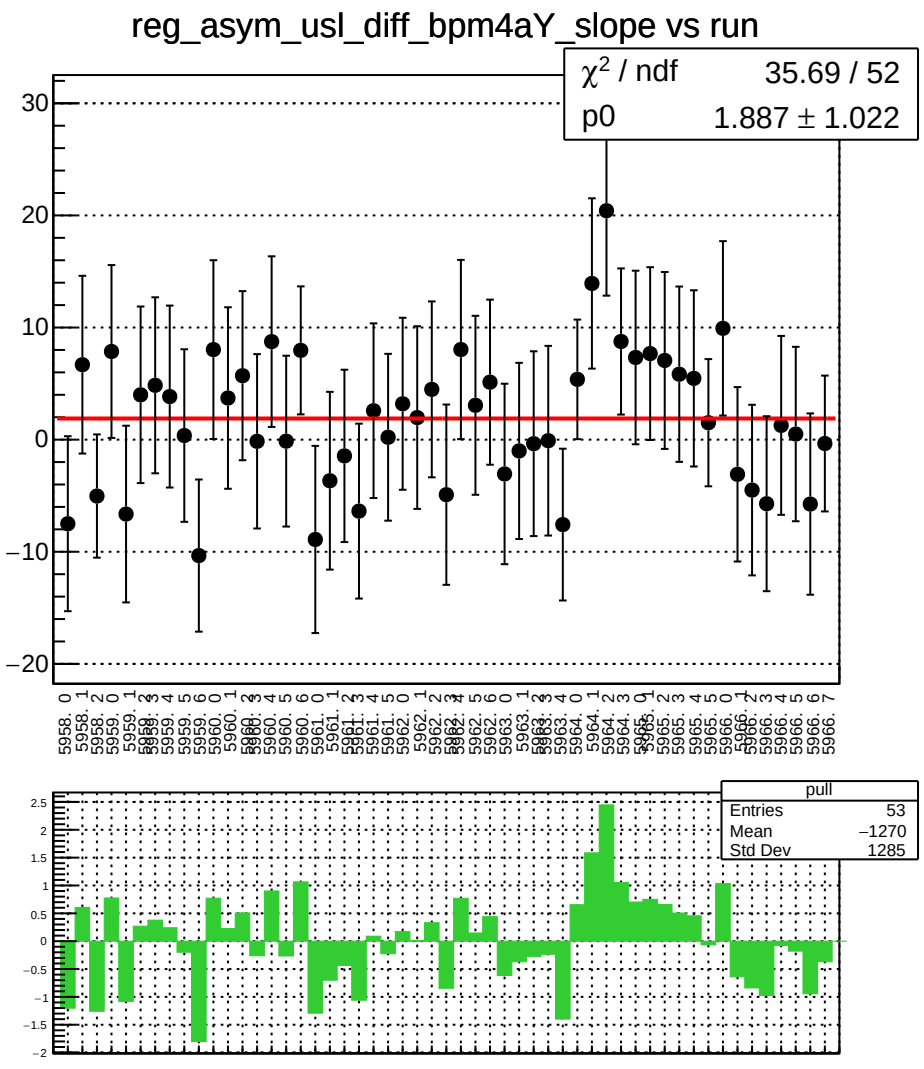

pull1D
Entries 53
Mean −0.00368
Std Dev 0.2625

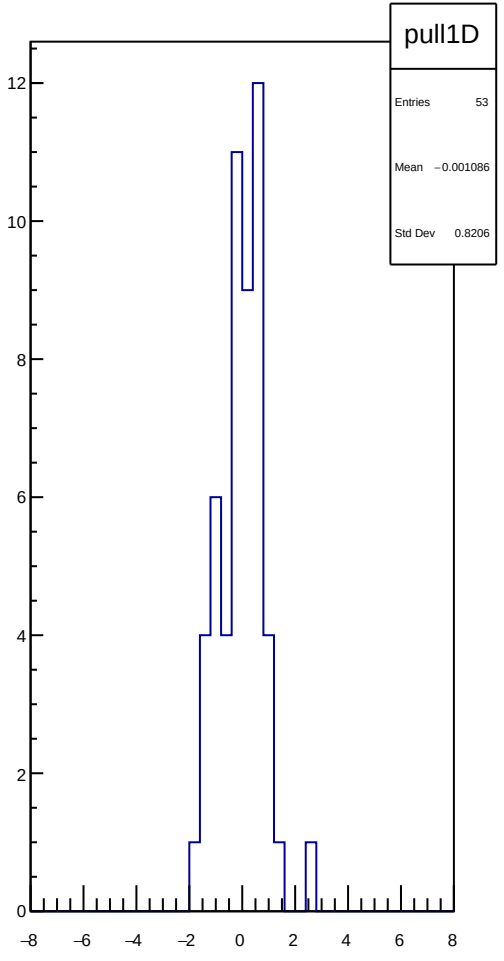

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 11.46 / 52
p0 −0.6131± 0.04755
pull
Entries 53
Mean 170.7
Std Dev 144.1

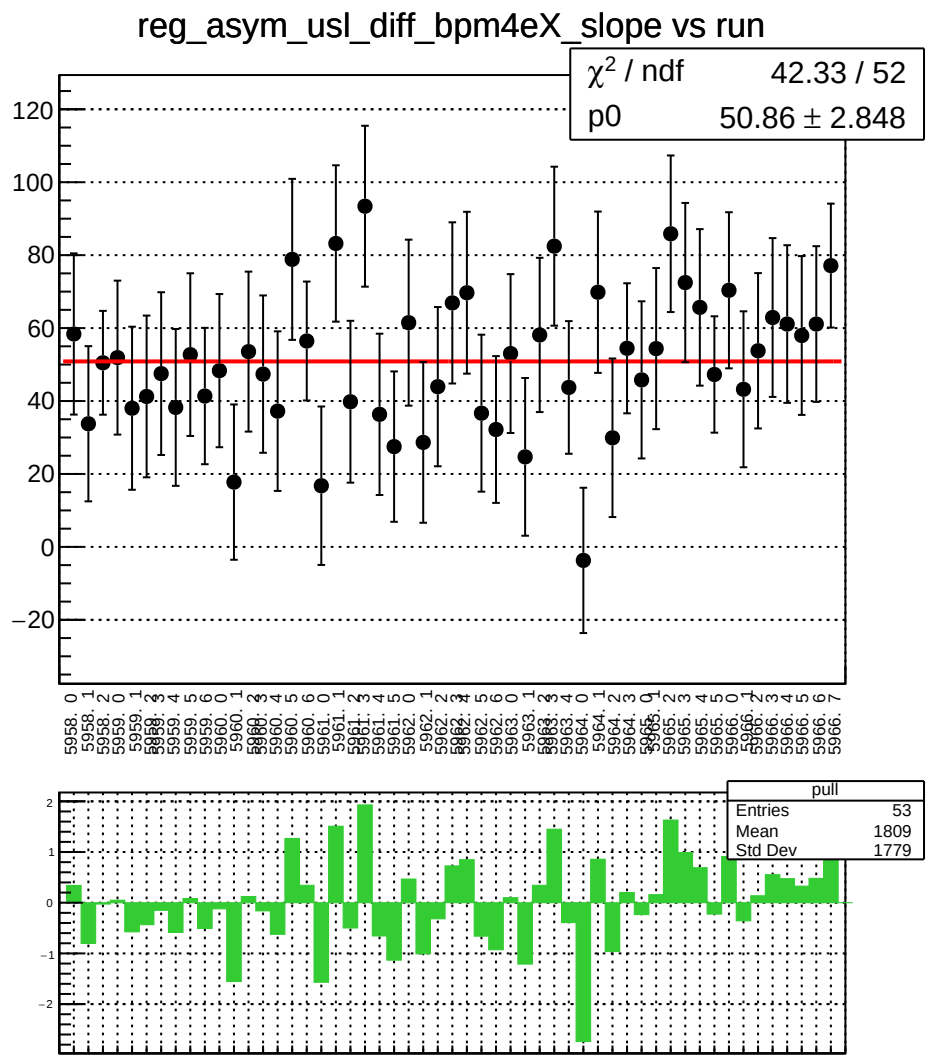

pull1D
Entries 53
Mean 0.01542
Std Dev 0.4648

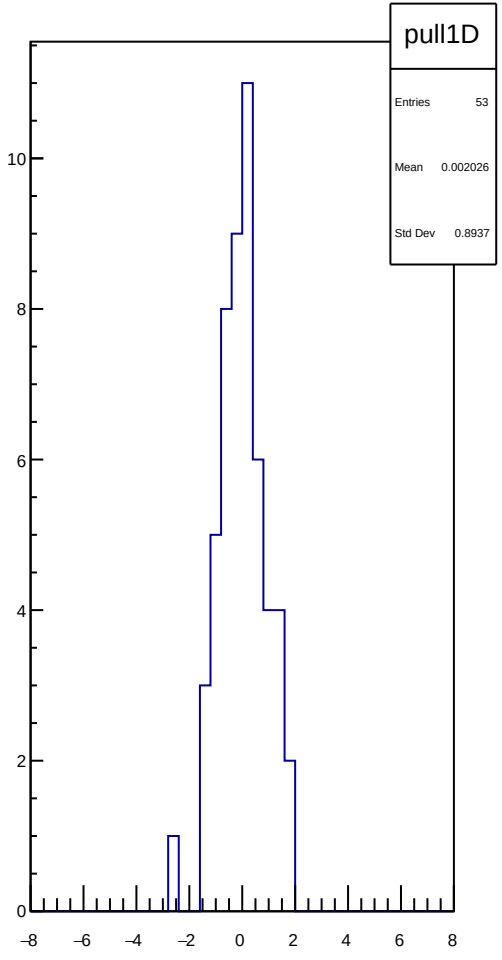

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 41.09 / 52
p0 −100.7 ± 2.688
pull
Entries 53
Mean 2243
Std Dev 2212

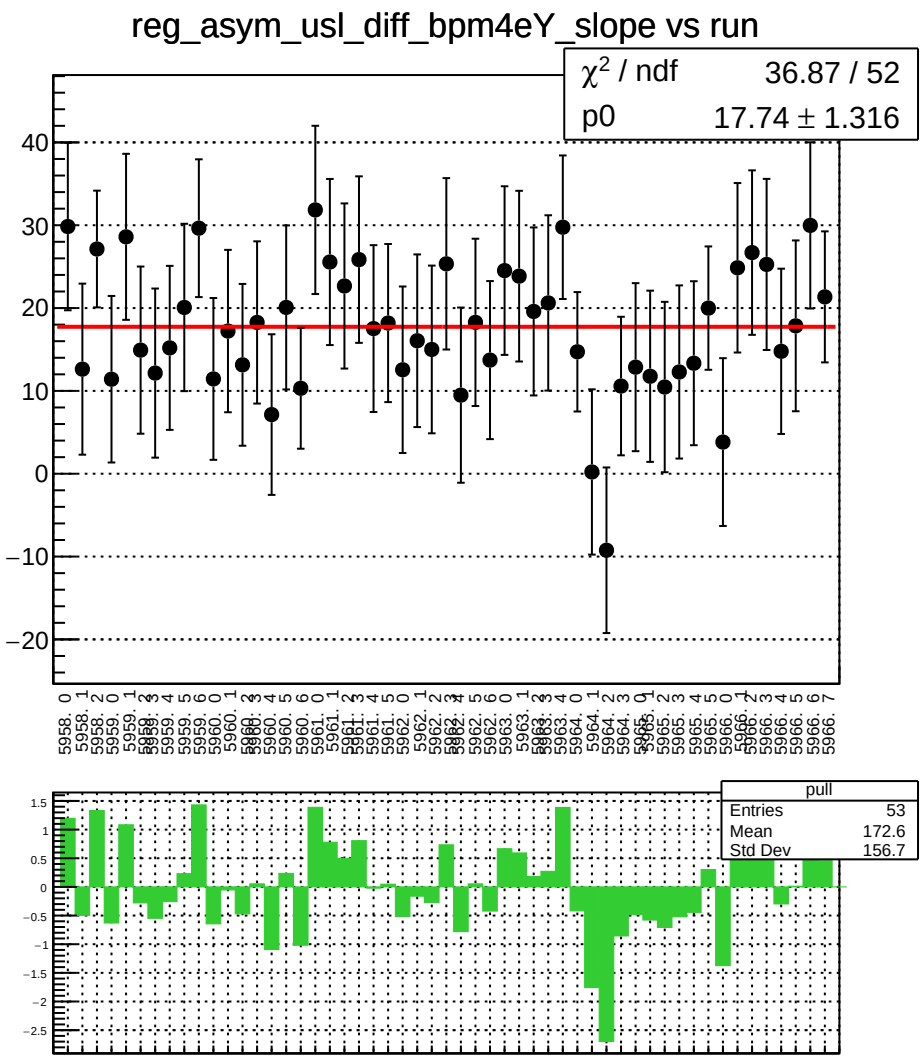

pull1D
Entries 53
Mean −0.001679
Std Dev 0.8805

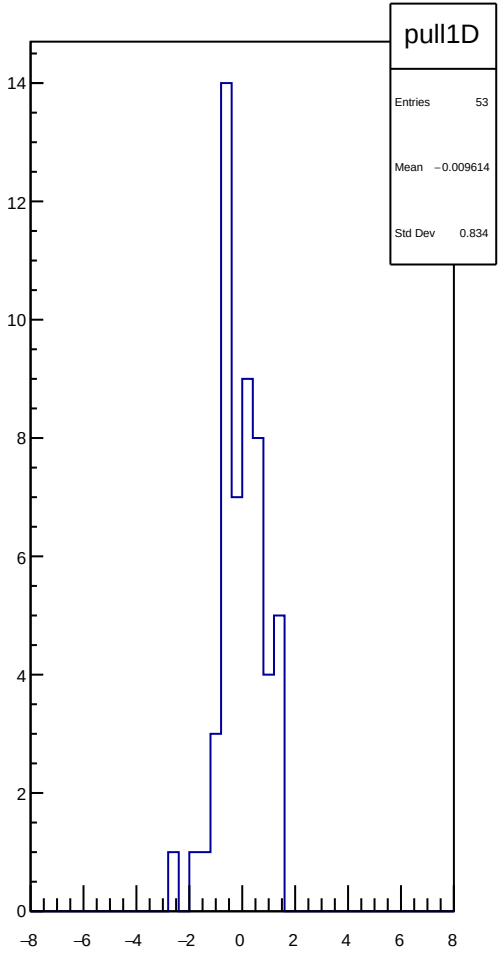

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 35.69 / 52
p0 1.887 ± 1.022
pull
Entries 53
Mean −1270
Std Dev 1285

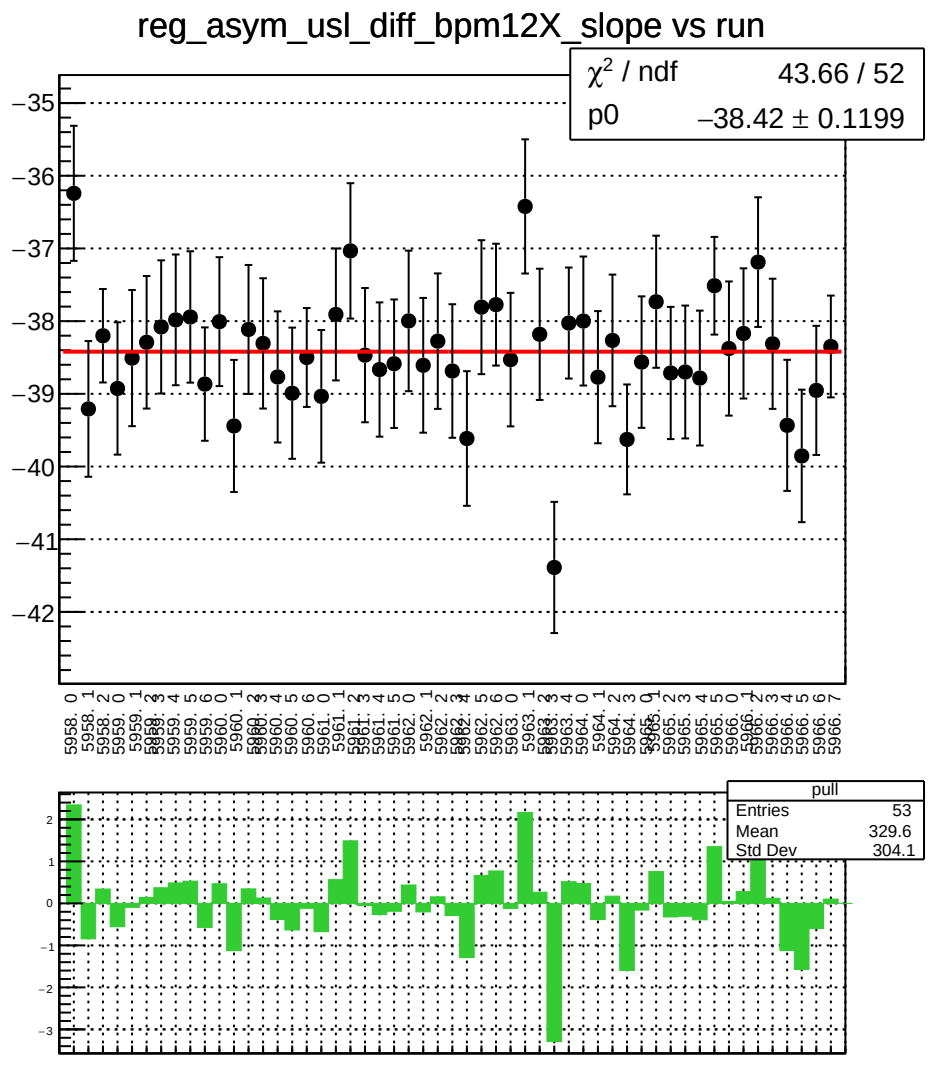

pull1D
Entries 53
Mean −0.001086
Std Dev 0.8206

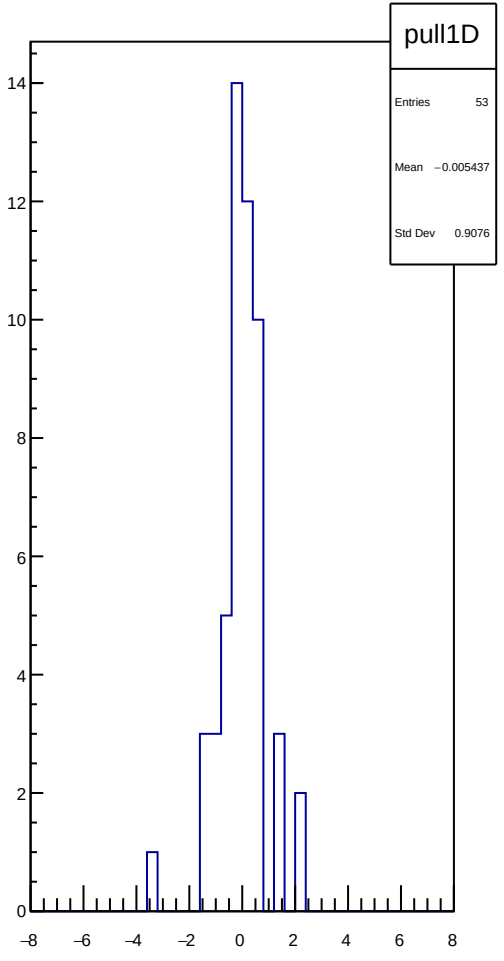

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 42.33 / 52
p0 50.86 ± 2.848
pull
Entries 53
Mean 1809
Std Dev 1779

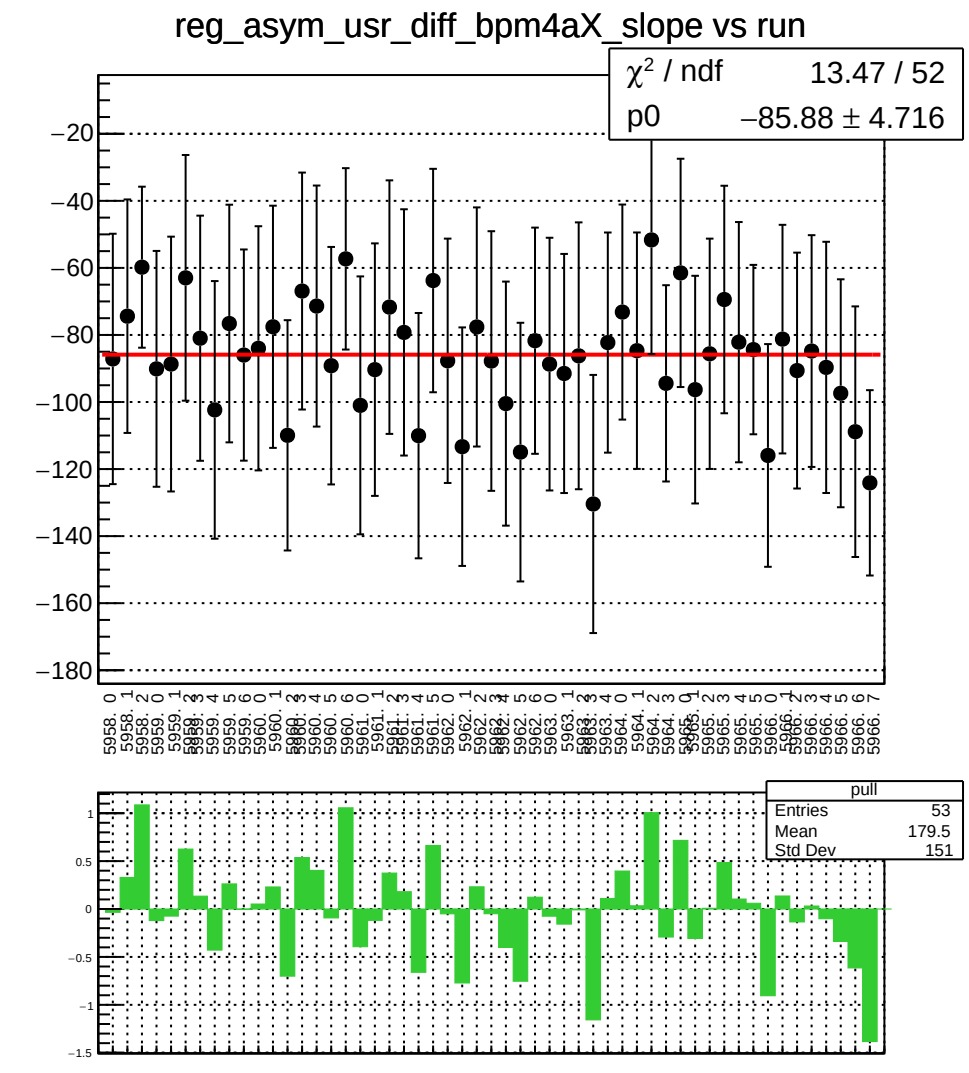

pull1D
Entries 53
Mean 0.002026
Std Dev 0.8937

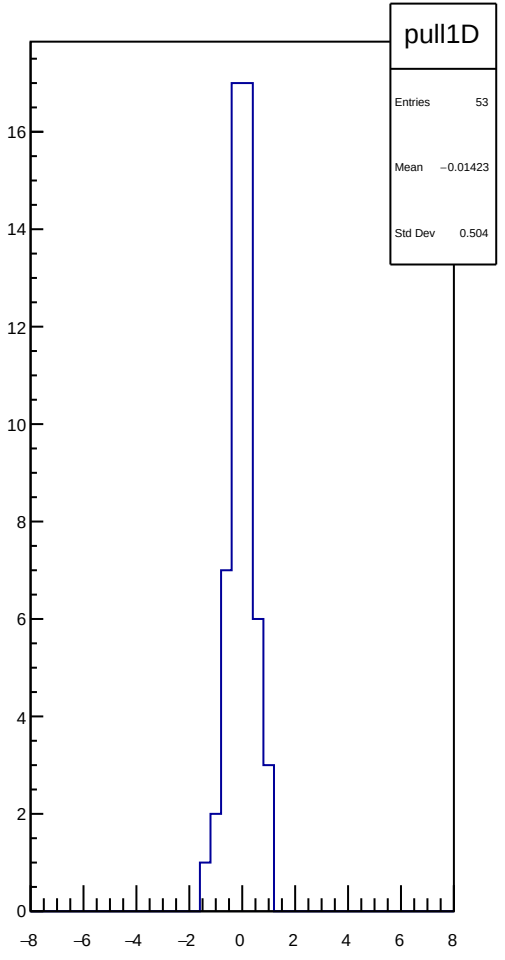

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 36.87 / 52
p0 17.74 ± 1.316
pull
Entries 53
Mean 172.6
Std Dev 156.7

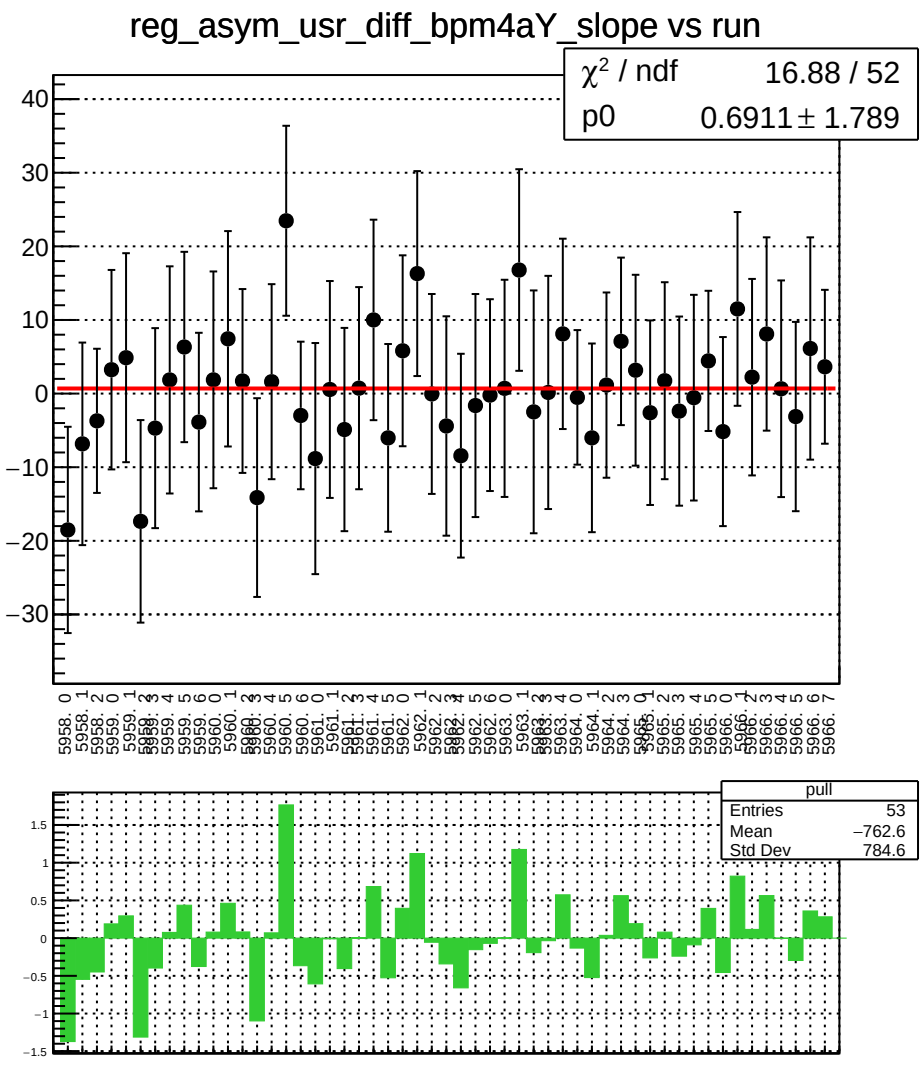

pull1D
Entries 53
Mean −0.009614
Std Dev 0.834

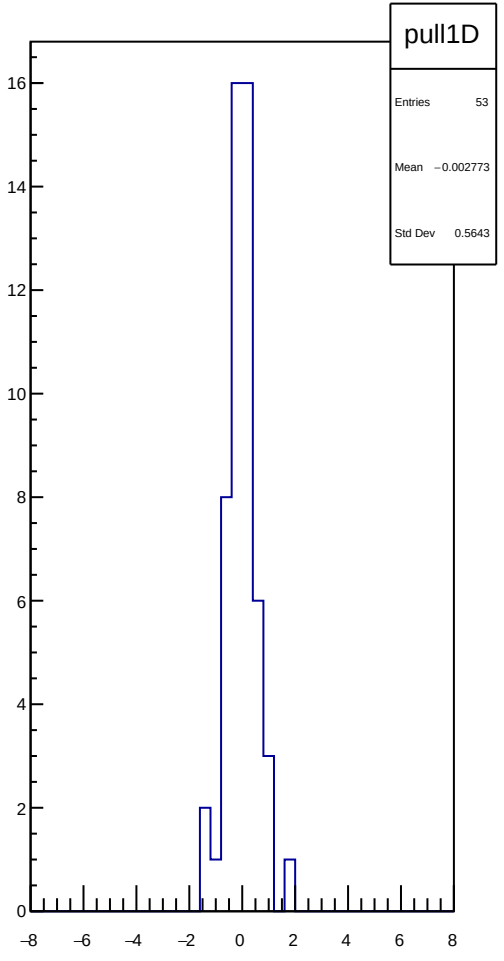

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 43.66 / 52
p0 −38.42 ± 0.1199
pull
Entries 53
Mean 329.6
Std Dev 304.1

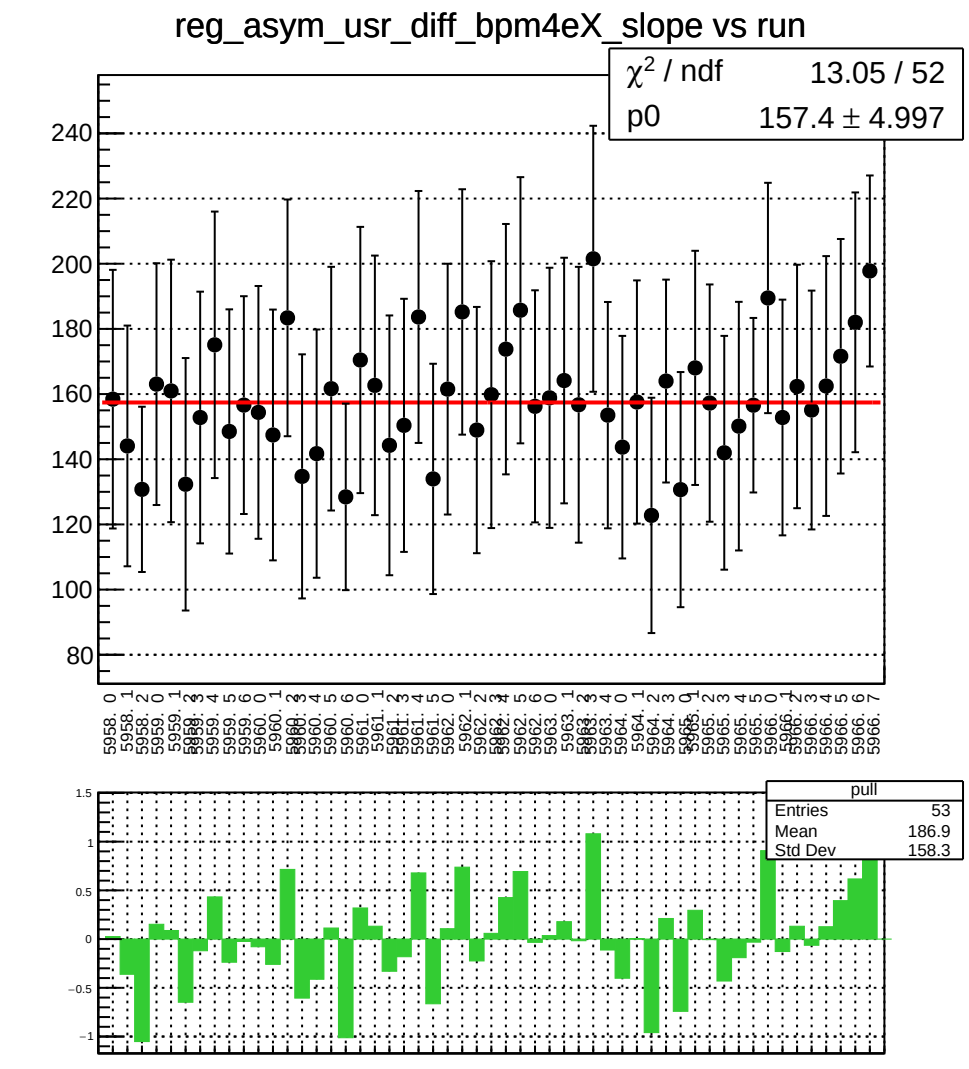

pull1D
Entries 53
Mean −0.005437
Std Dev 0.9076

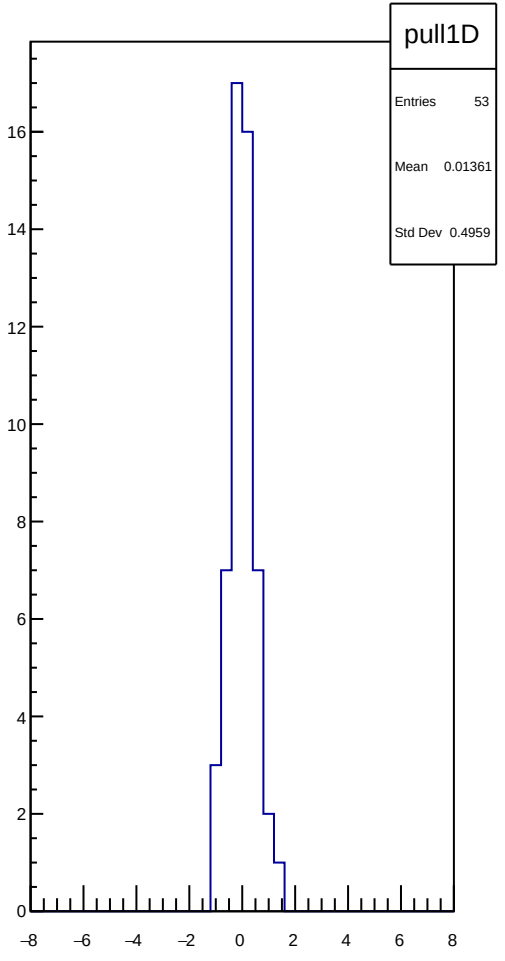

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 13.47 / 52
p0 −85.88 ± 4.716
pull
Entries 53
Mean 179.5
Std Dev 151

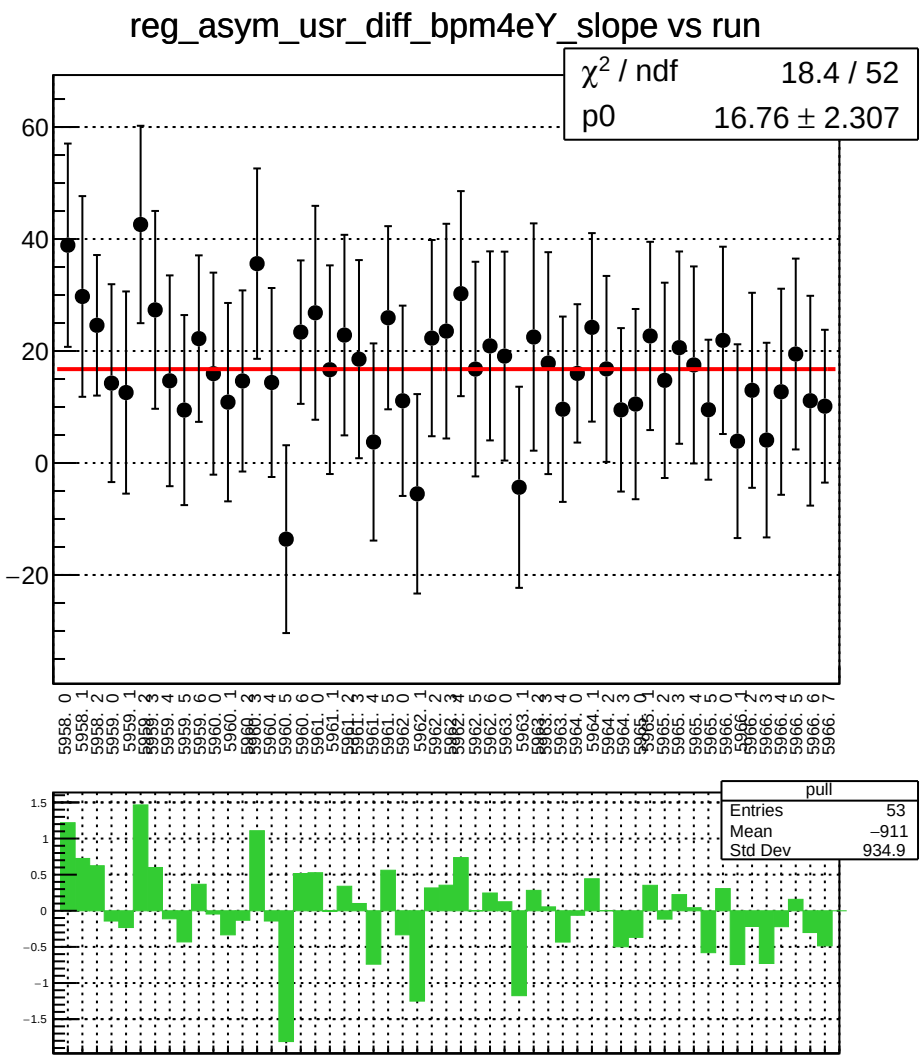

pull1D
Entries 53
Mean −0.01423
Std Dev 0.504

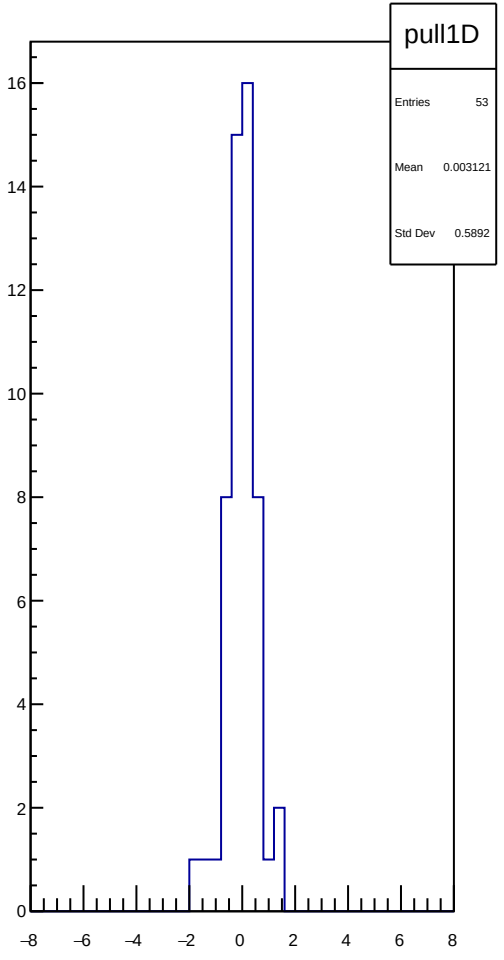

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 16.88 / 52
p0 0.6911 ± 1.789
pull
Entries 53
Mean −762.6
Std Dev 784.6

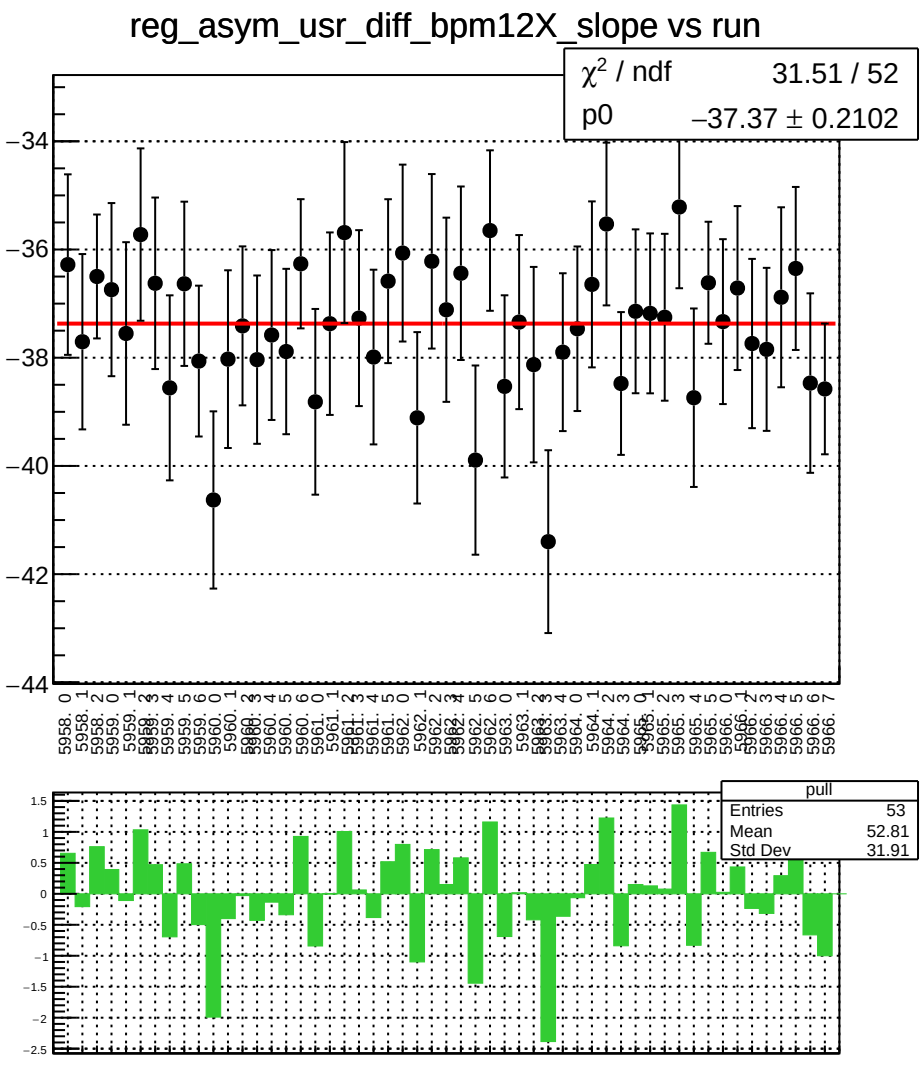

pull1D
Entries 53
Mean −0.002773
Std Dev 0.5643

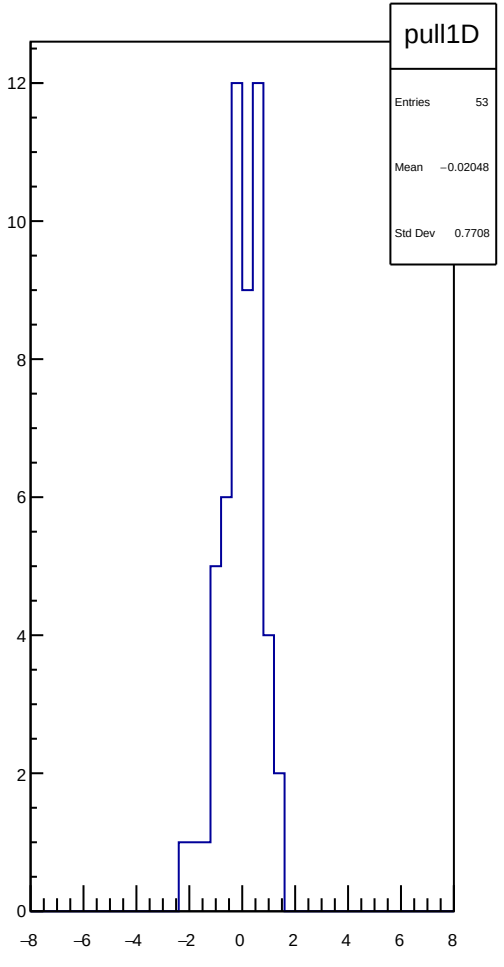

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 13.05 / 52
p0 157.4 ± 4.997
pull
Entries 53
Mean 186.9
Std Dev 158.3

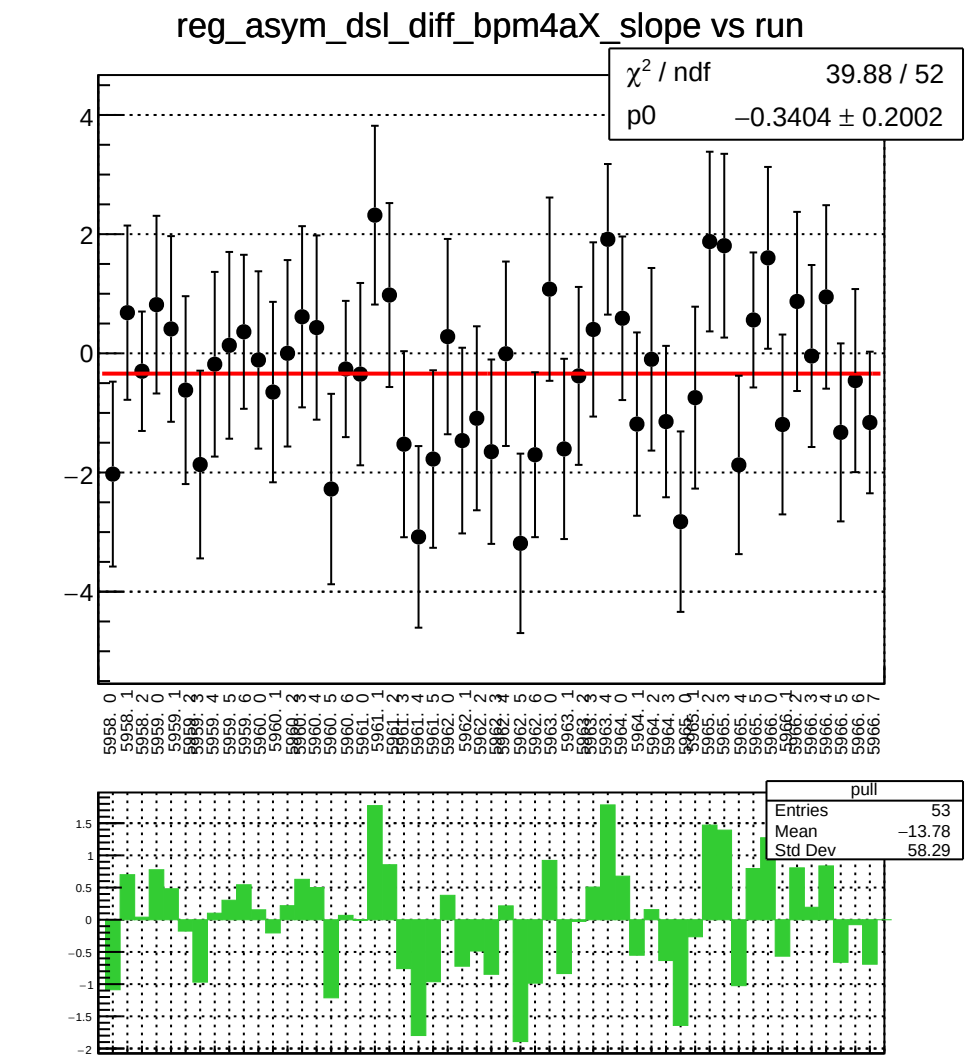

pull1D
Entries 53
Mean 0.01361
Std Dev 0.4959

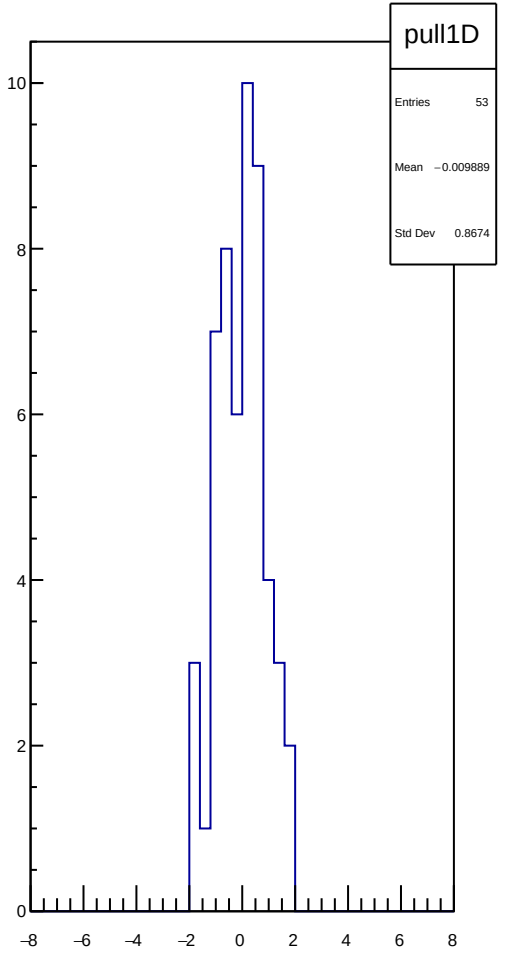

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 18.4 / 52
p0 16.76 ± 2.307
pull
Entries 53
Mean −911
Std Dev 934.9

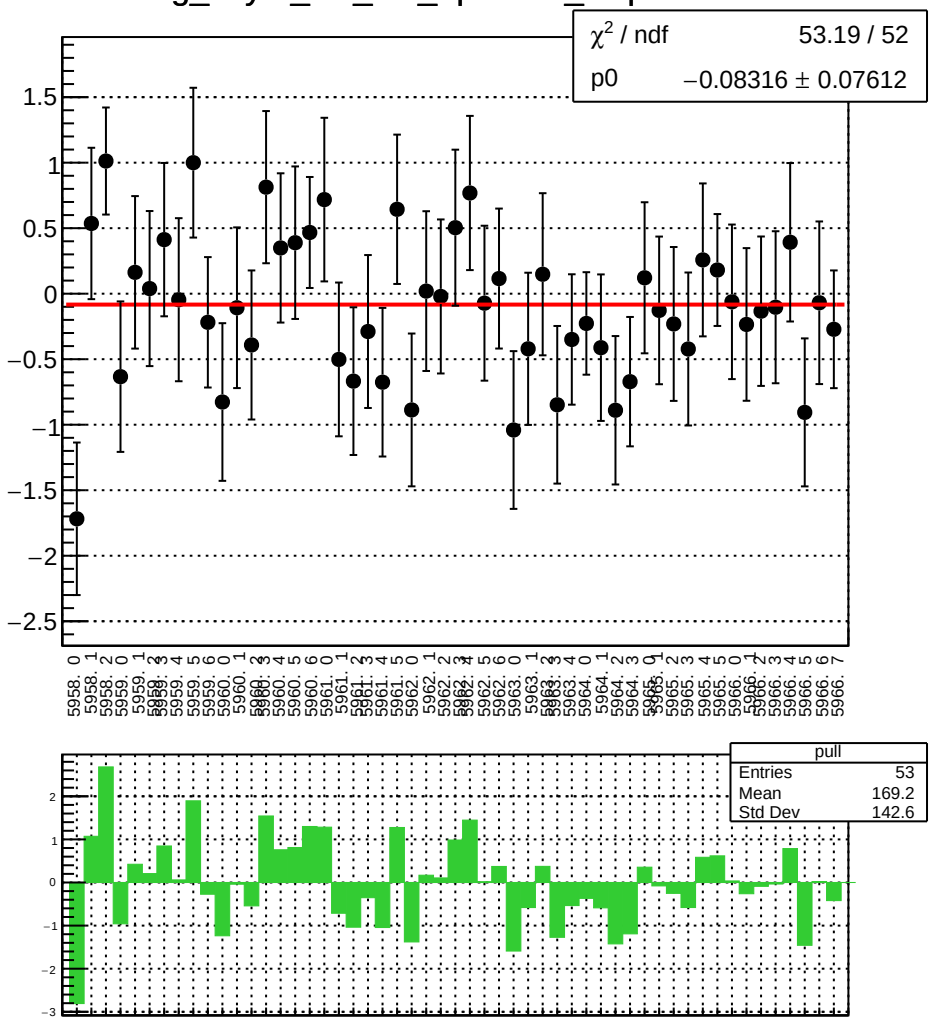

pull1D
Entries 53
Mean 0.003121
Std Dev 0.5892

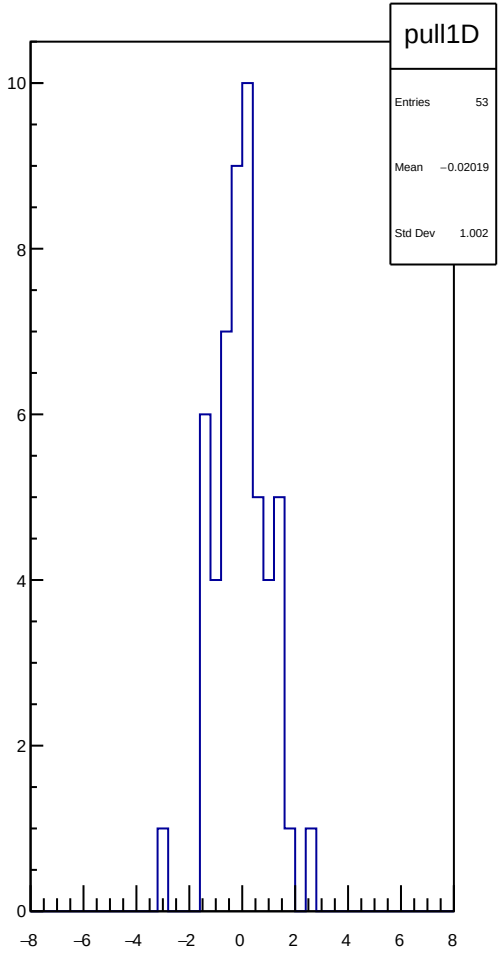

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 31.51 / 52
p0 −37.37 ± 0.2102
pull
Entries 53
Mean 52.81
Std Dev 31.91

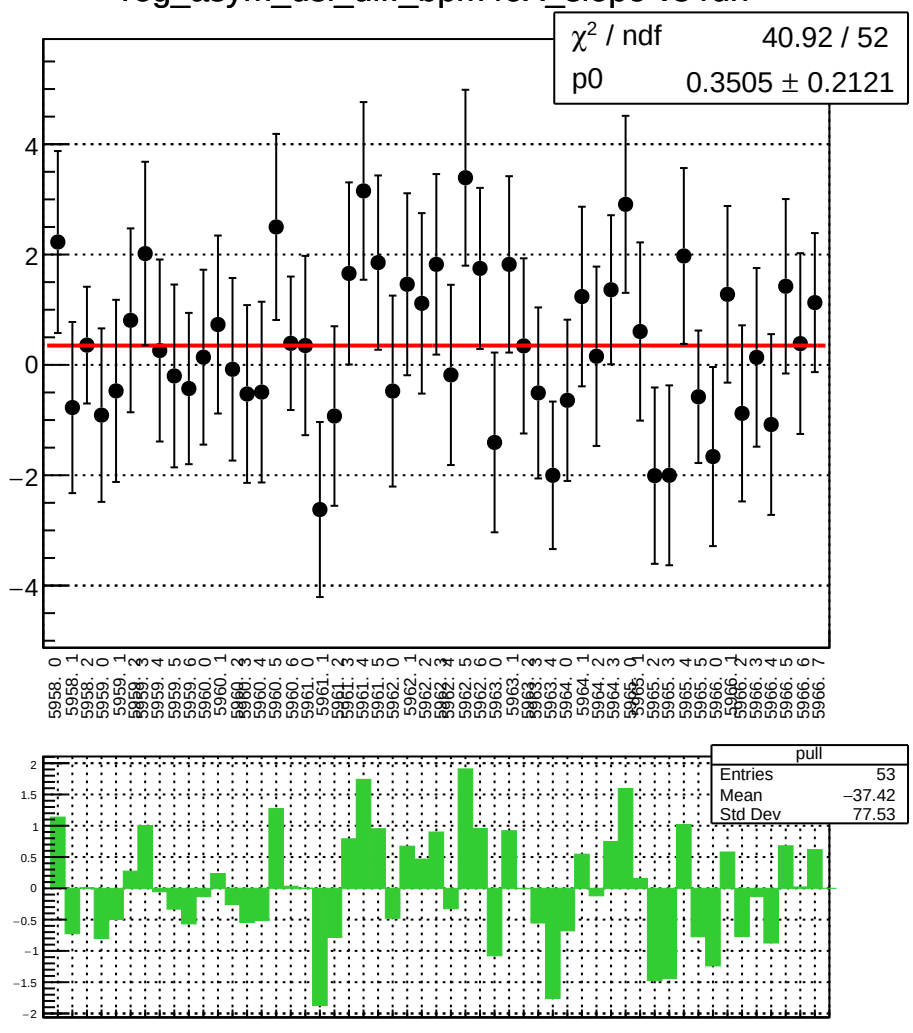

pull1D
Entries 53
Mean −0.02048
Std Dev 0.7708

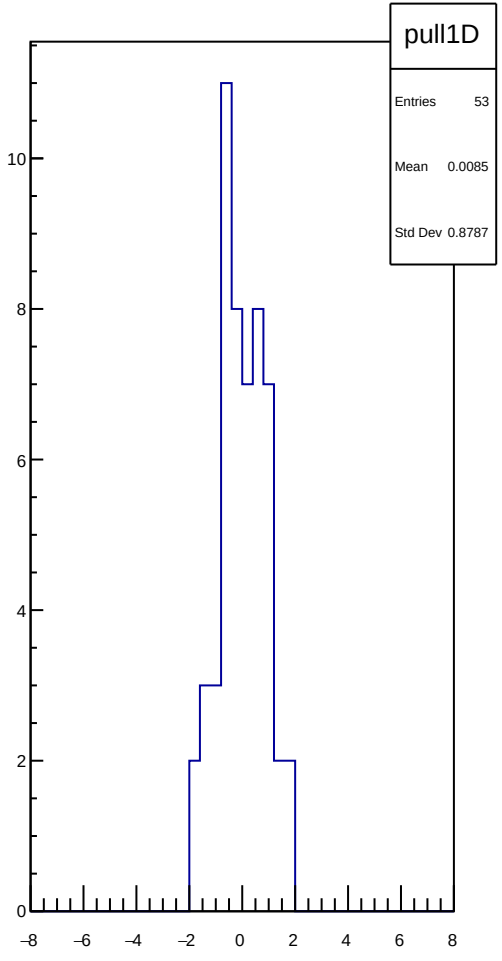

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 39.88 / 52
p0 −0.3404 ± 0.2002
pull
Entries 53
Mean −13.78
Std Dev 58.29

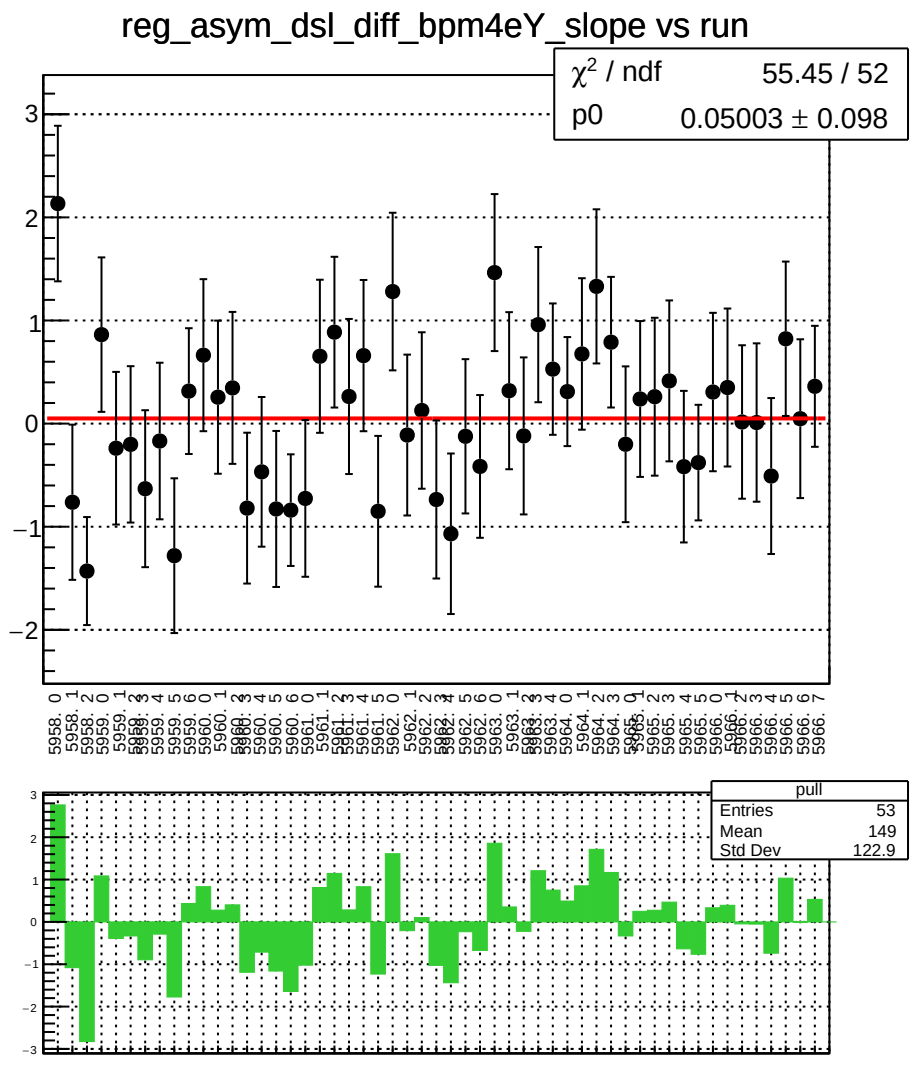

pull1D
Entries 53
Mean −0.009889
Std Dev 0.8674

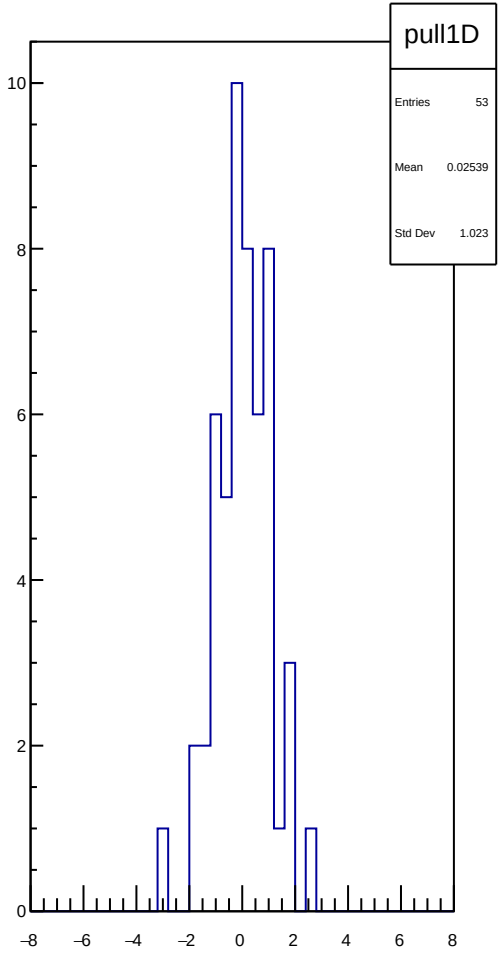

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 53.19 / 52
p0 −0.08316 ± 0.07612
pull
Entries 53
Mean 169.2
Std Dev 142.6

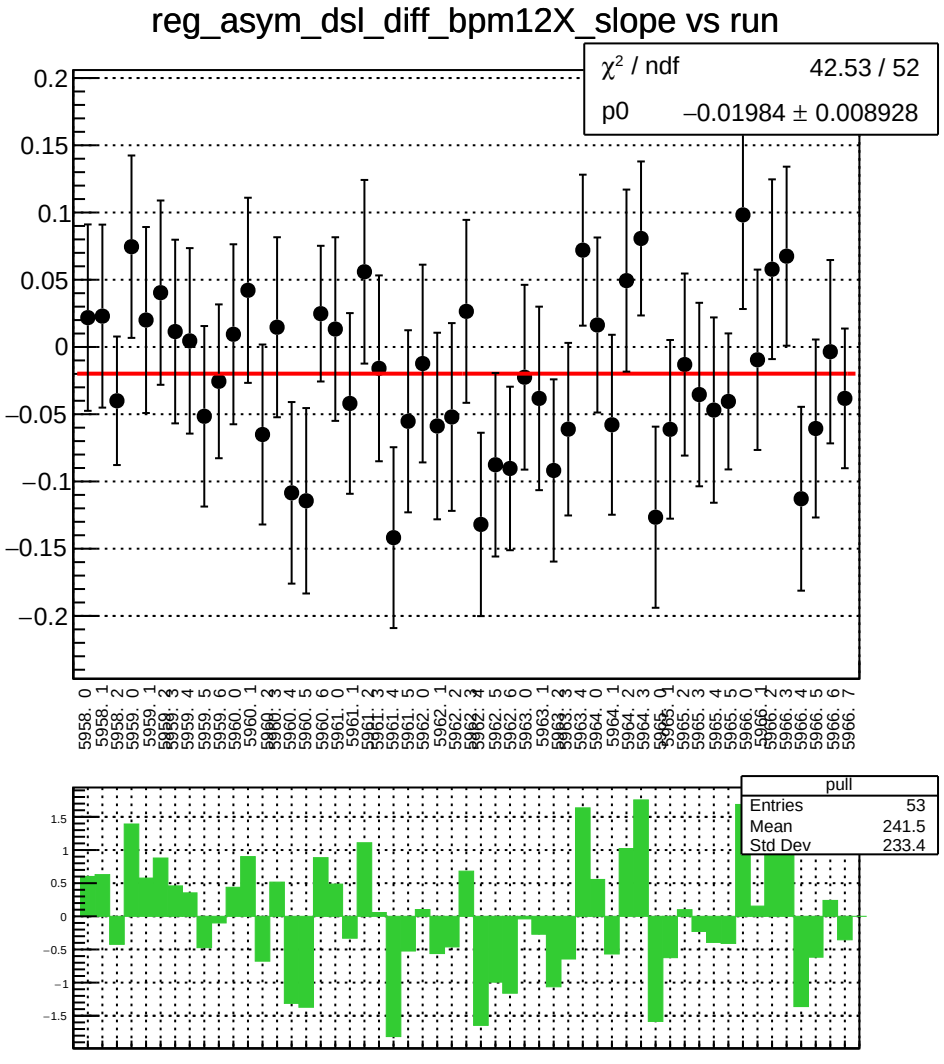

pull1D
Entries 53
Mean −0.02019
Std Dev 1.002

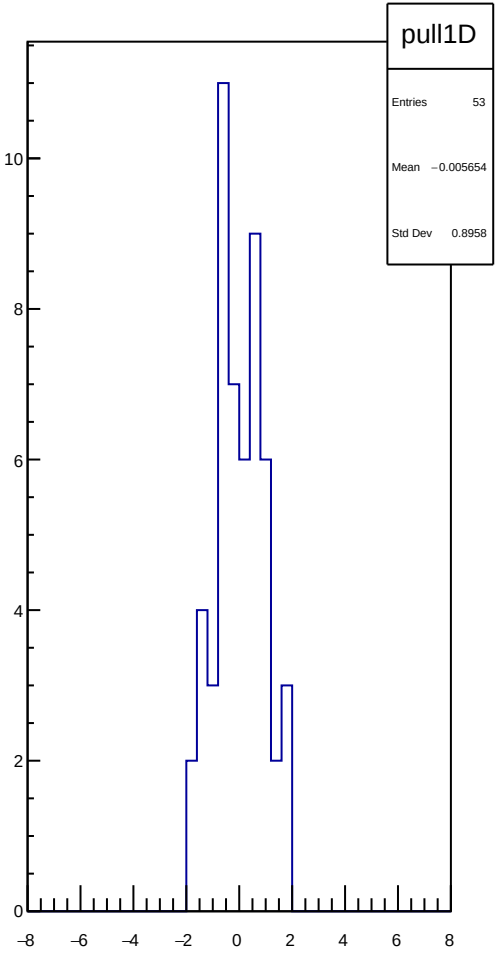

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 40.92 / 52
p0 0.3505 ± 0.2121
pull
Entries 53
Mean −37.42
Std Dev 77.53

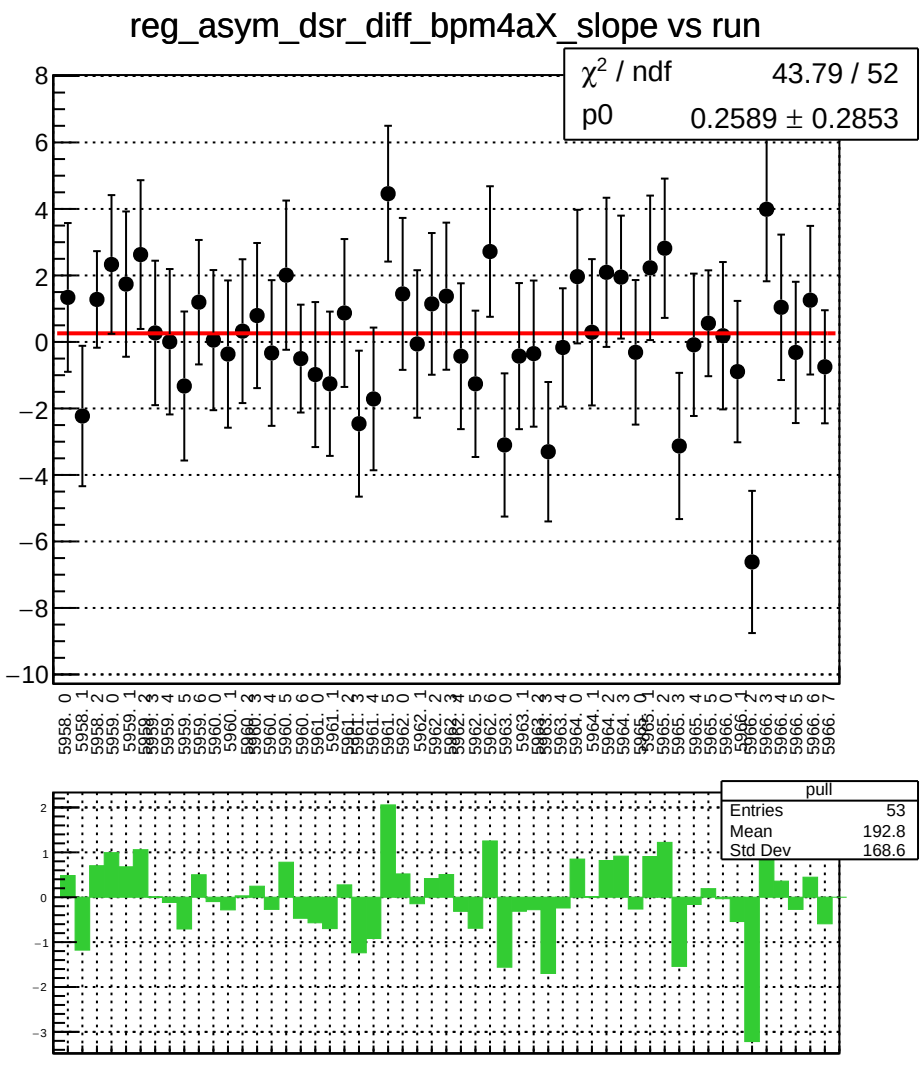

pull1D
Entries 53
Mean 0.0085
Std Dev 0.8787

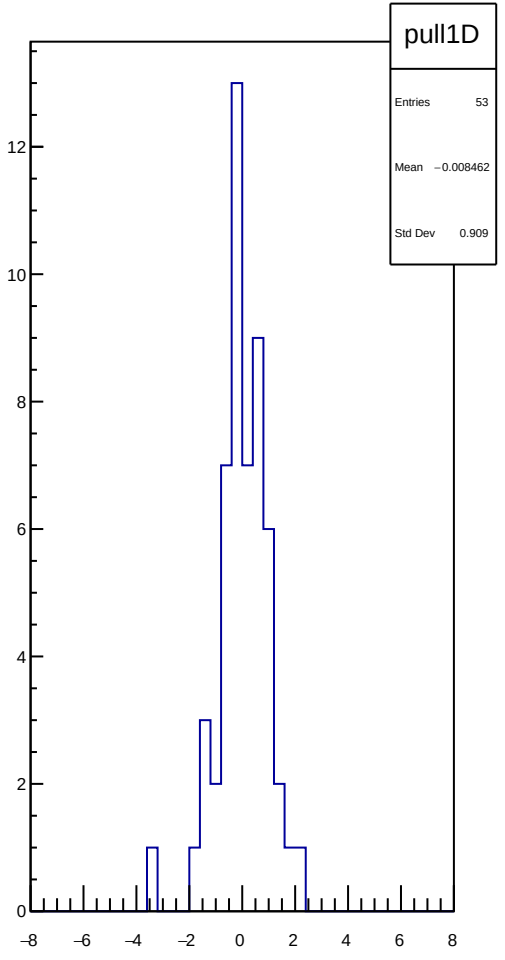

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 55.45 / 52
p0 0.05003 ± 0.098
pull
Entries 53
Mean 149
Std Dev 122.9

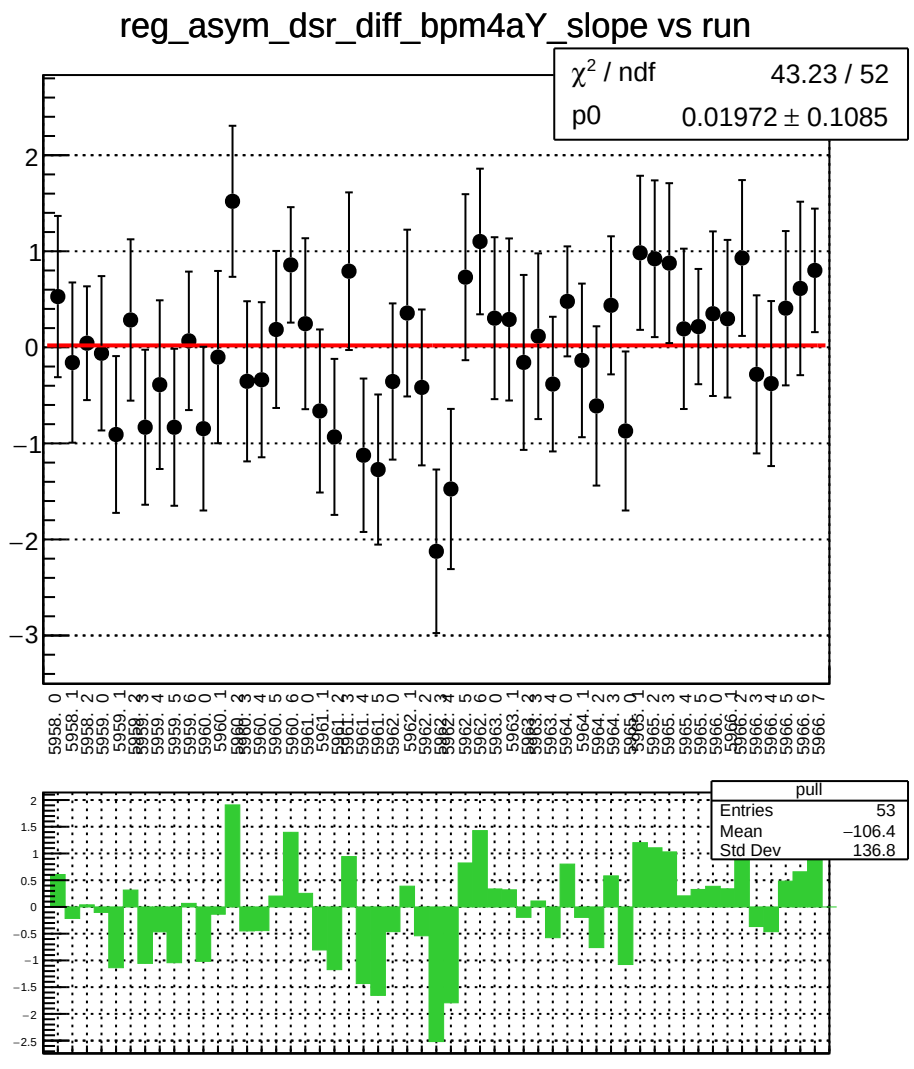

pull1D
Entries 53
Mean 0.02539
Std Dev 1.023

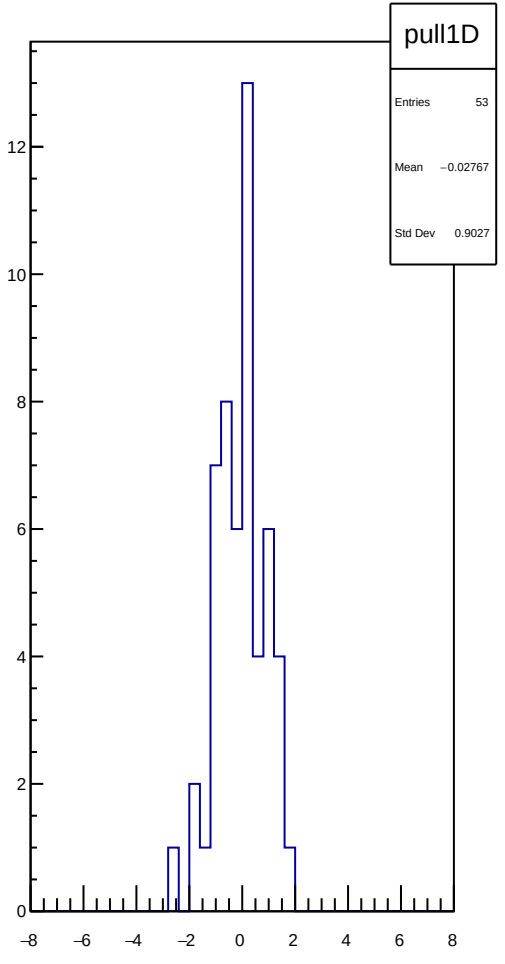

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 42.53 / 52
p0 −0.01984 ± 0.008928
pull
Entries 53
Mean 241.5
Std Dev 233.4

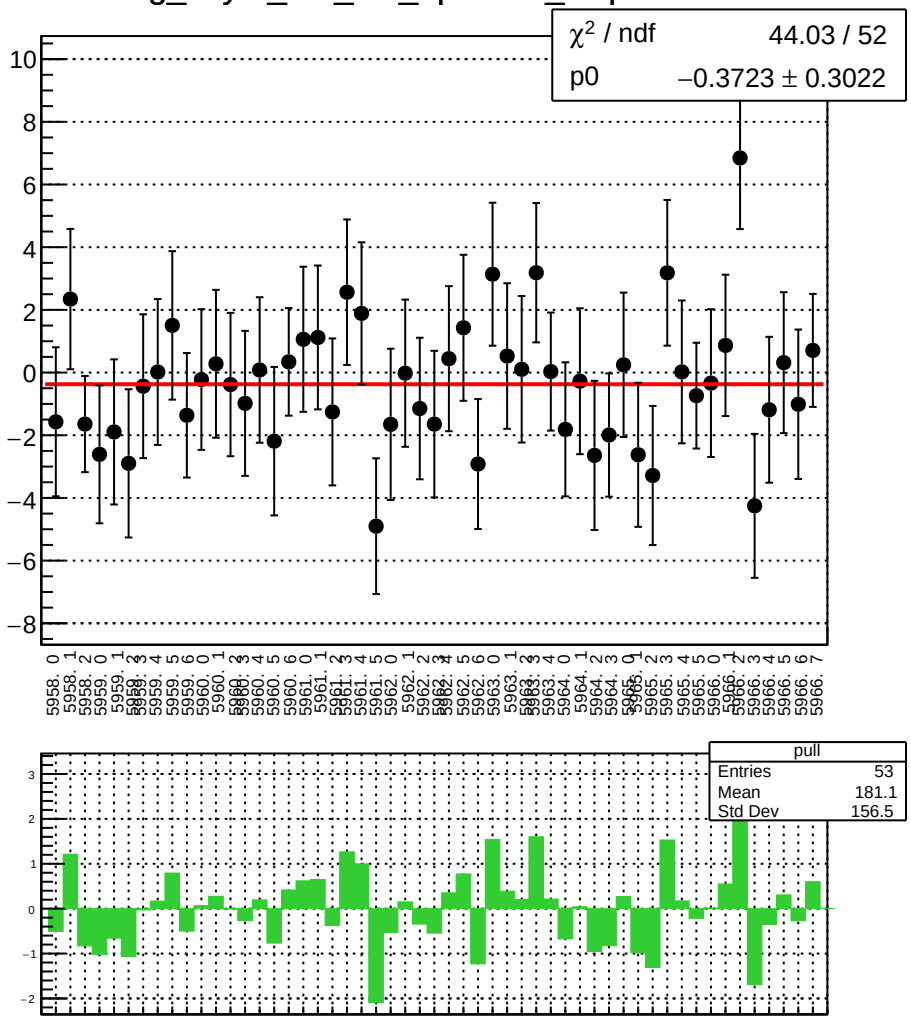

pull1D
Entries 53
Mean −0.005654
Std Dev 0.8958

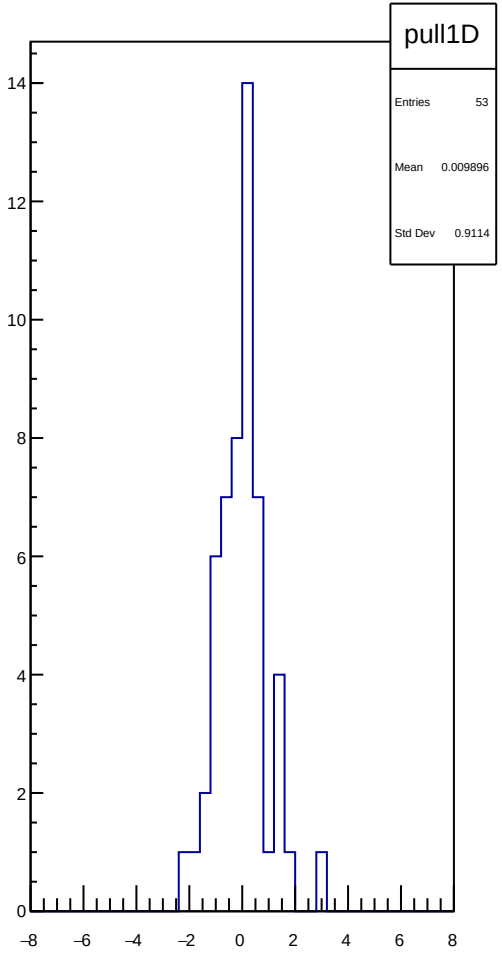

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 43.79 / 52
p0 0.2589 ± 0.2853
pull
Entries 53
Mean 192.8
Std Dev 168.6

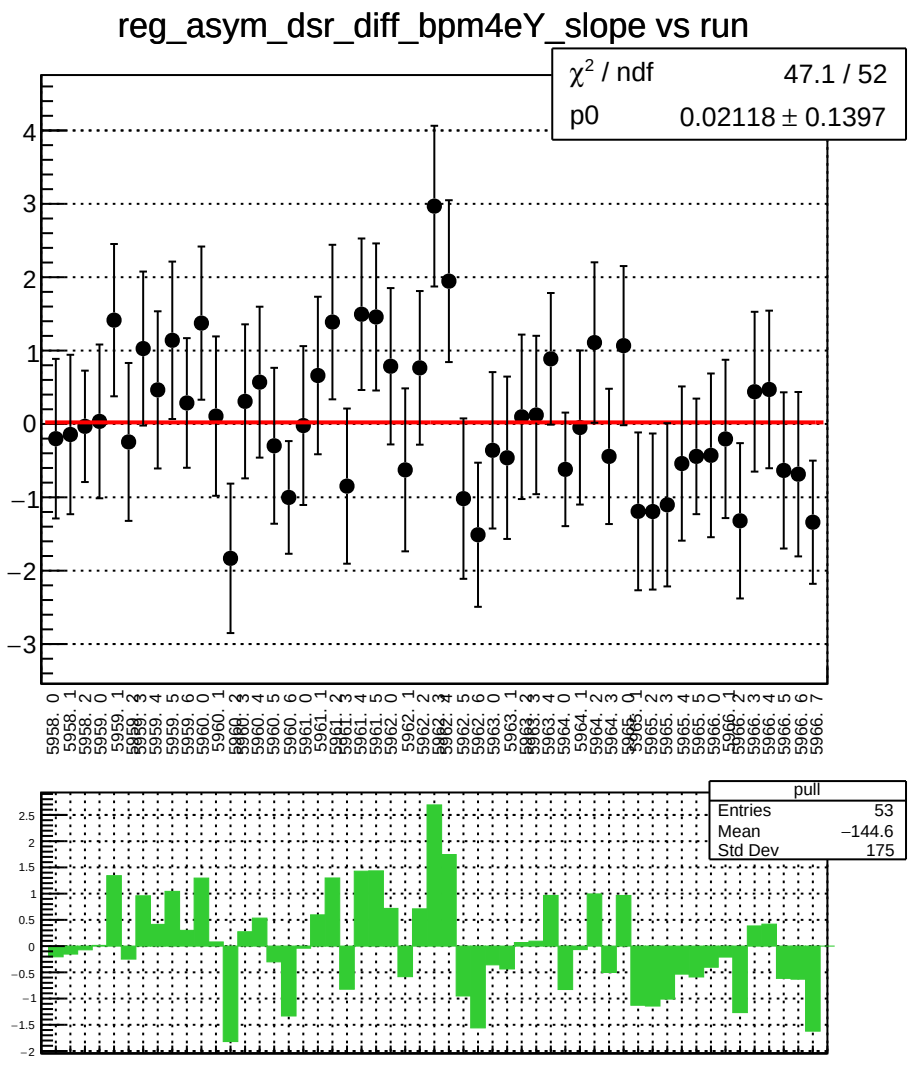

pull1D
Entries 53
Mean −0.008462
Std Dev 0.909

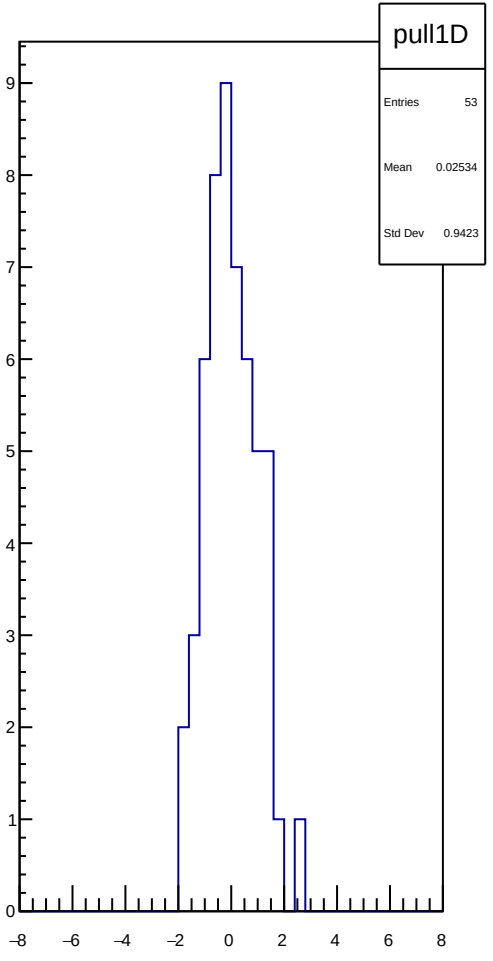

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 43.23 / 52
p0 0.01972 ± 0.1085
pull
Entries 53
Mean −106.4
Std Dev 136.8

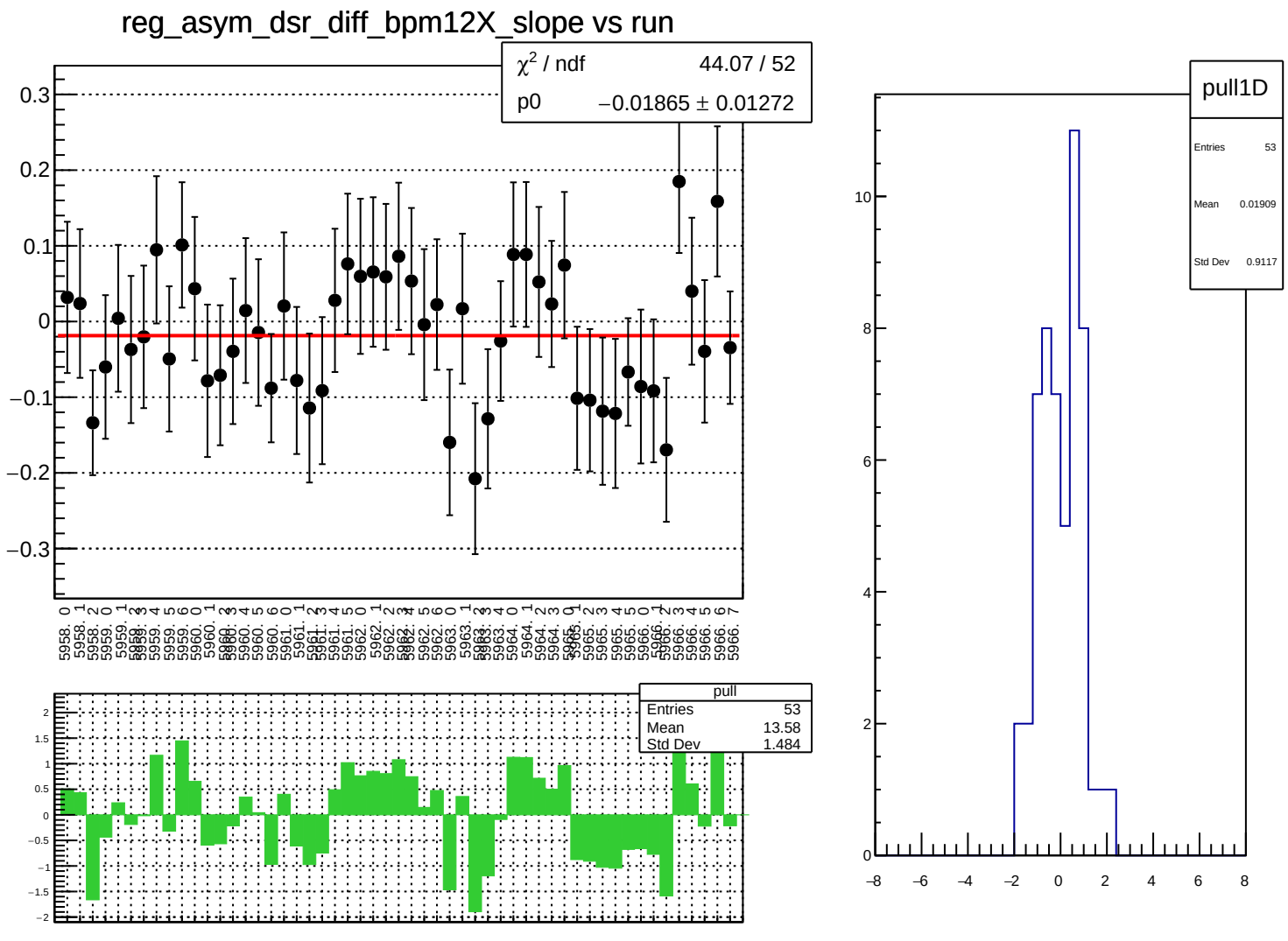

pull1D
Entries 53
Mean −0.02767
Std Dev 0.9027

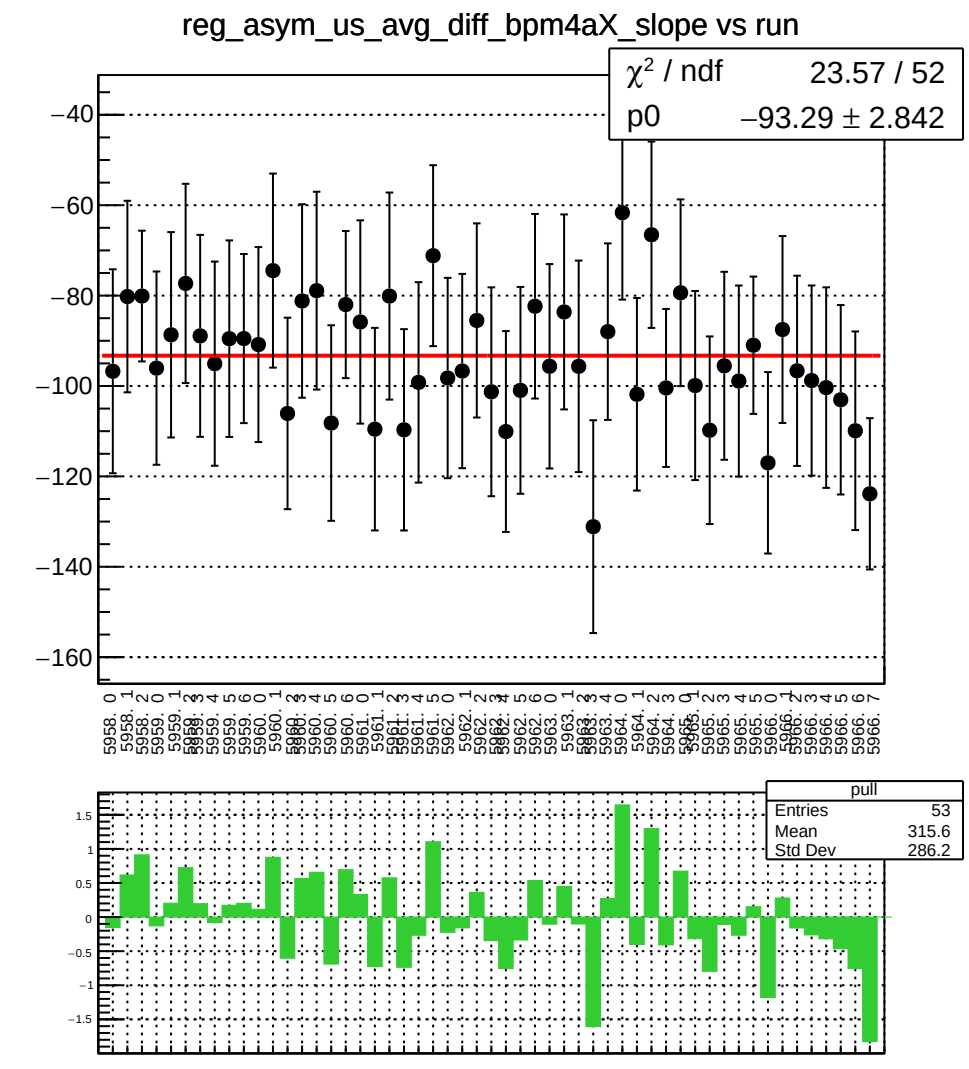

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 44.03 / 52
p0 −0.3723 ± 0.3022
pull
Entries 53
Mean 181.1
Std Dev 156.5

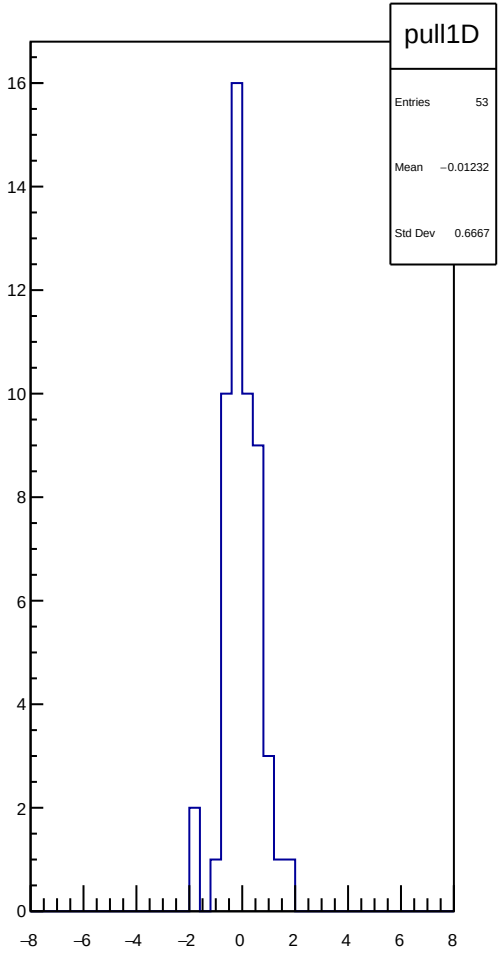

pull1D
Entries 53
Mean 0.009896
Std Dev 0.9114

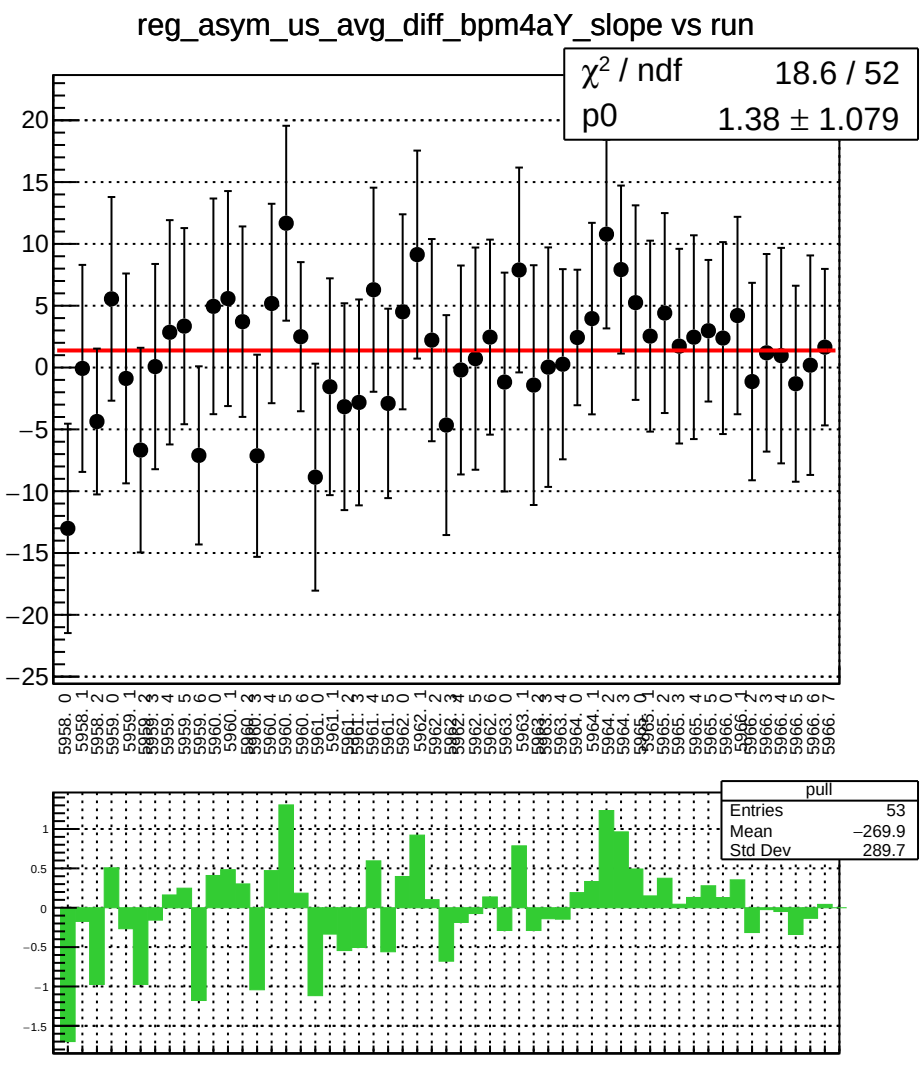

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 47.1 / 52
p0 0.02118 ± 0.1397
pull
Entries 53
Mean −144.6
Std Dev 175

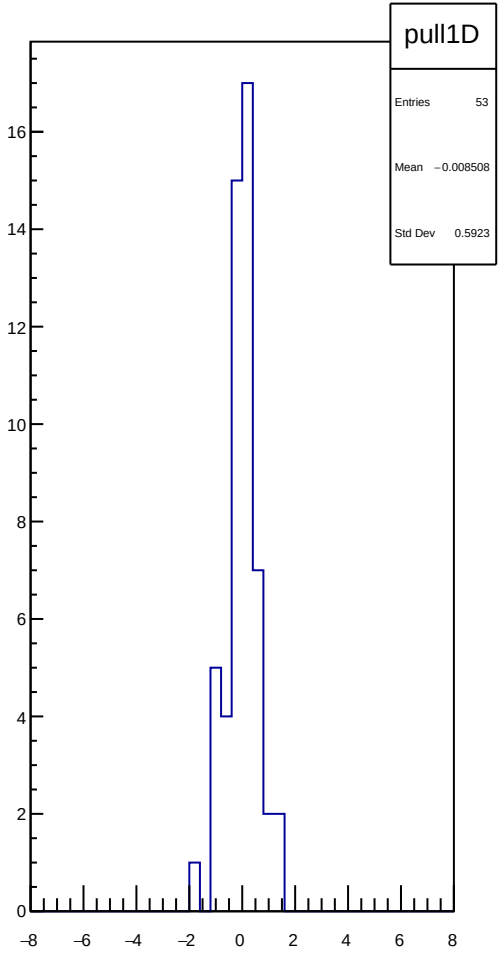

pull1D
Entries 53
Mean 0.02534
Std Dev 0.9423

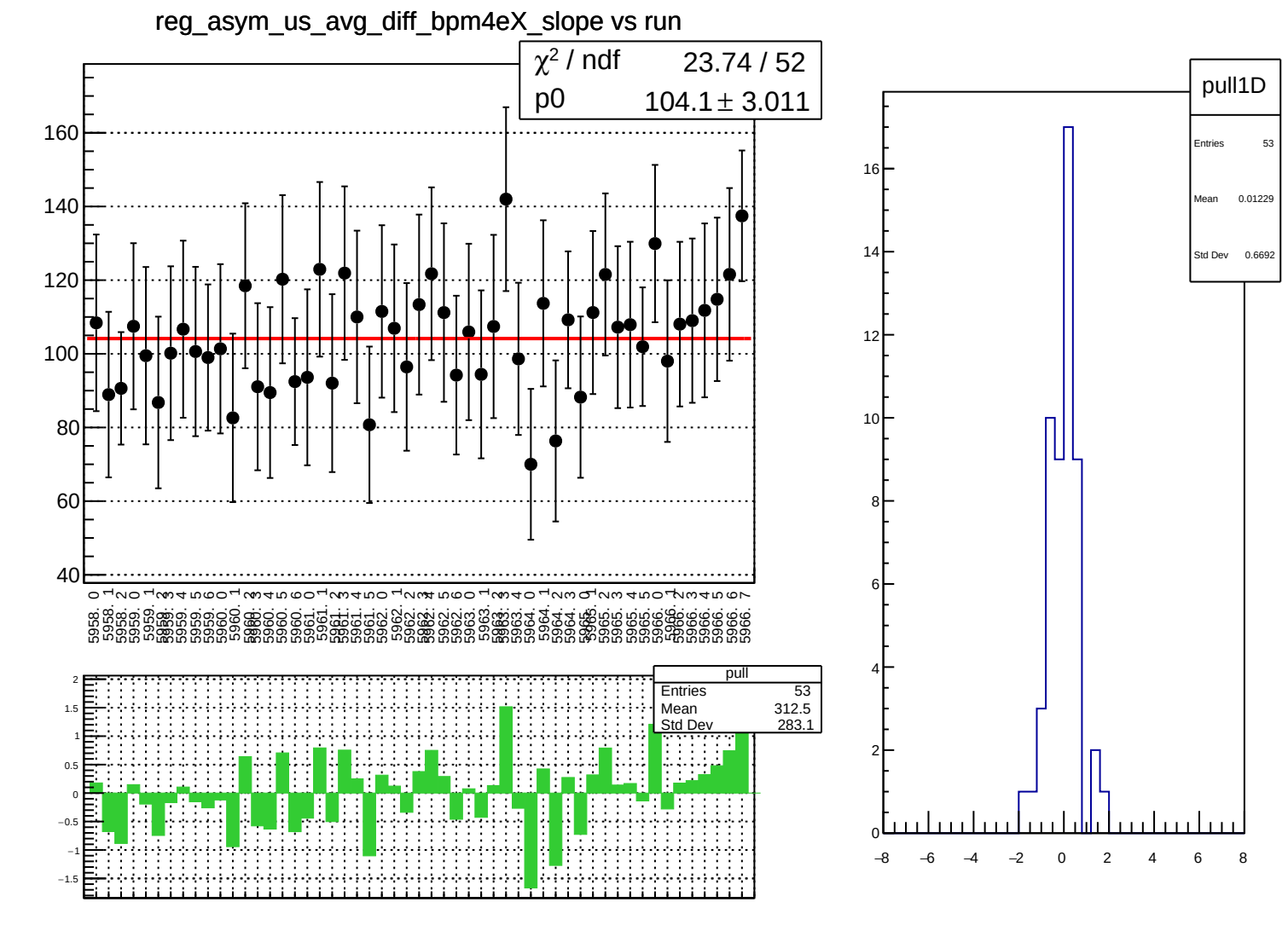

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 44.07 / 52
p0 −0.01865 ± 0.01272
pull
Entries 53
Mean 13.58
Std Dev 1.484
pull1D
Entries 53
Mean 0.01909
Std Dev 0.9117

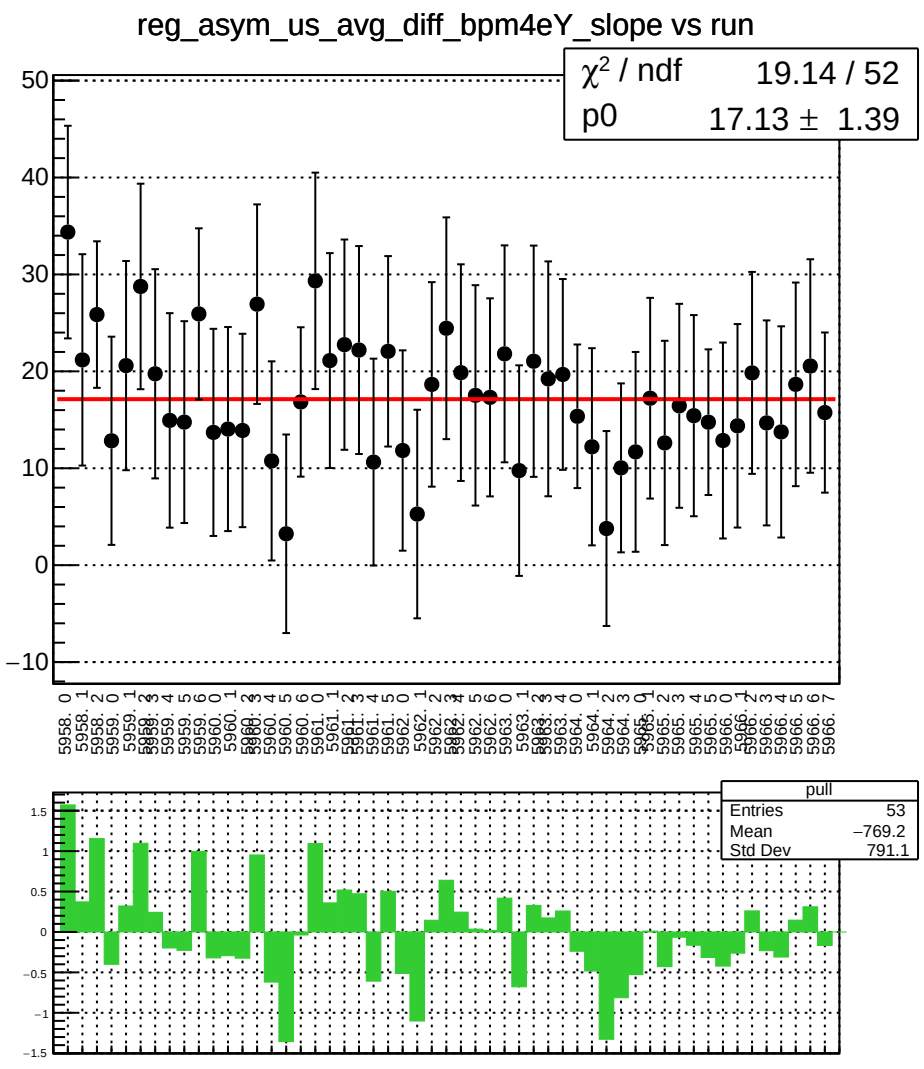

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 23.57 / 52
p0 −93.29 ± 2.842
pull
Entries 53
Mean 315.6
Std Dev 286.2

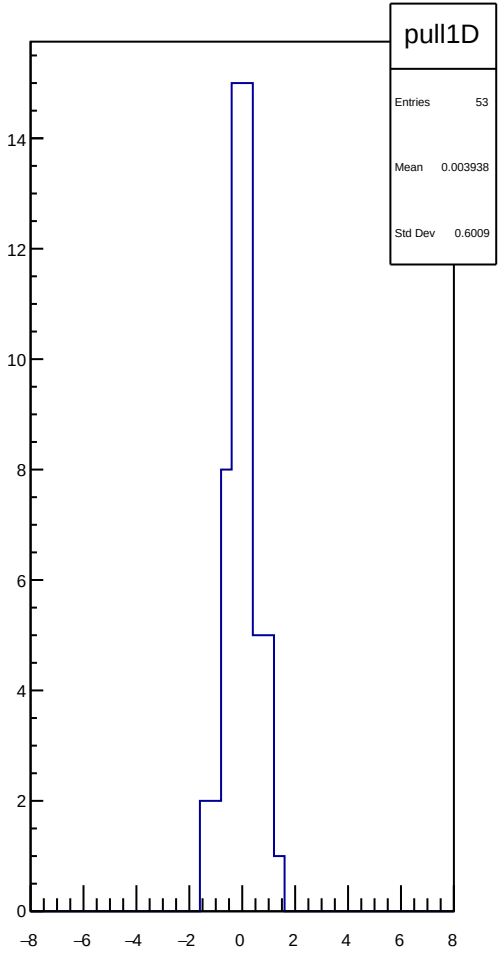

pull1D
Entries 53
Mean −0.01232
Std Dev 0.6667

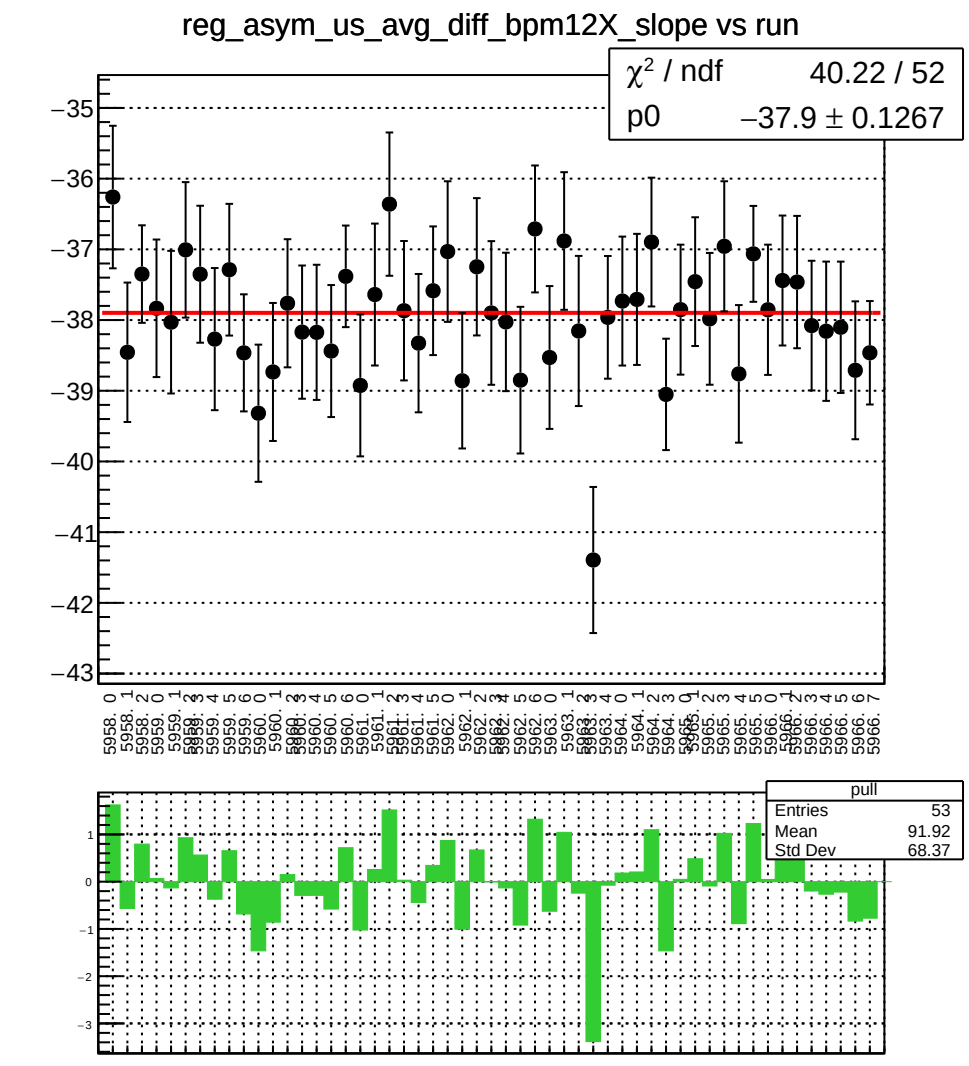

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.6 / 52
p0 1.38 ± 1.079
pull
Entries 53
Mean −269.9
Std Dev 289.7

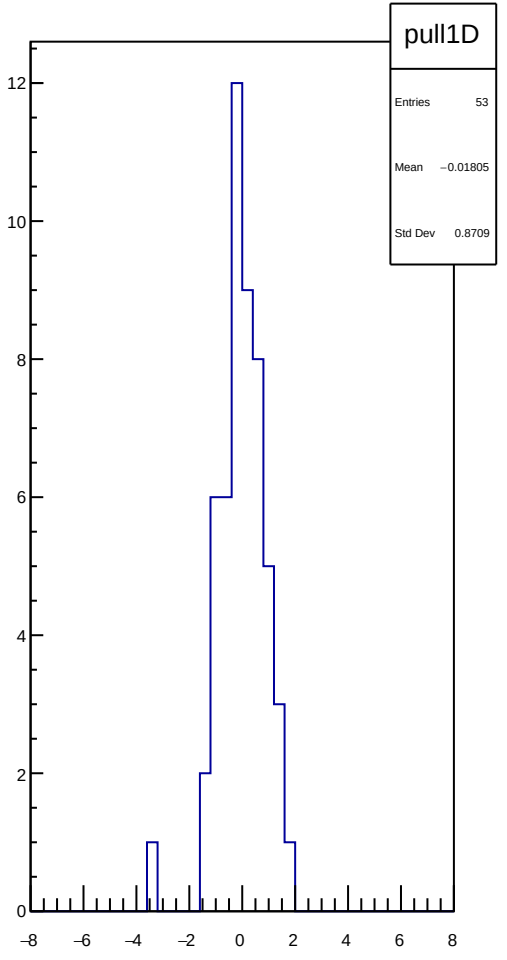

pull1D
Entries 53
Mean −0.008508
Std Dev 0.5923

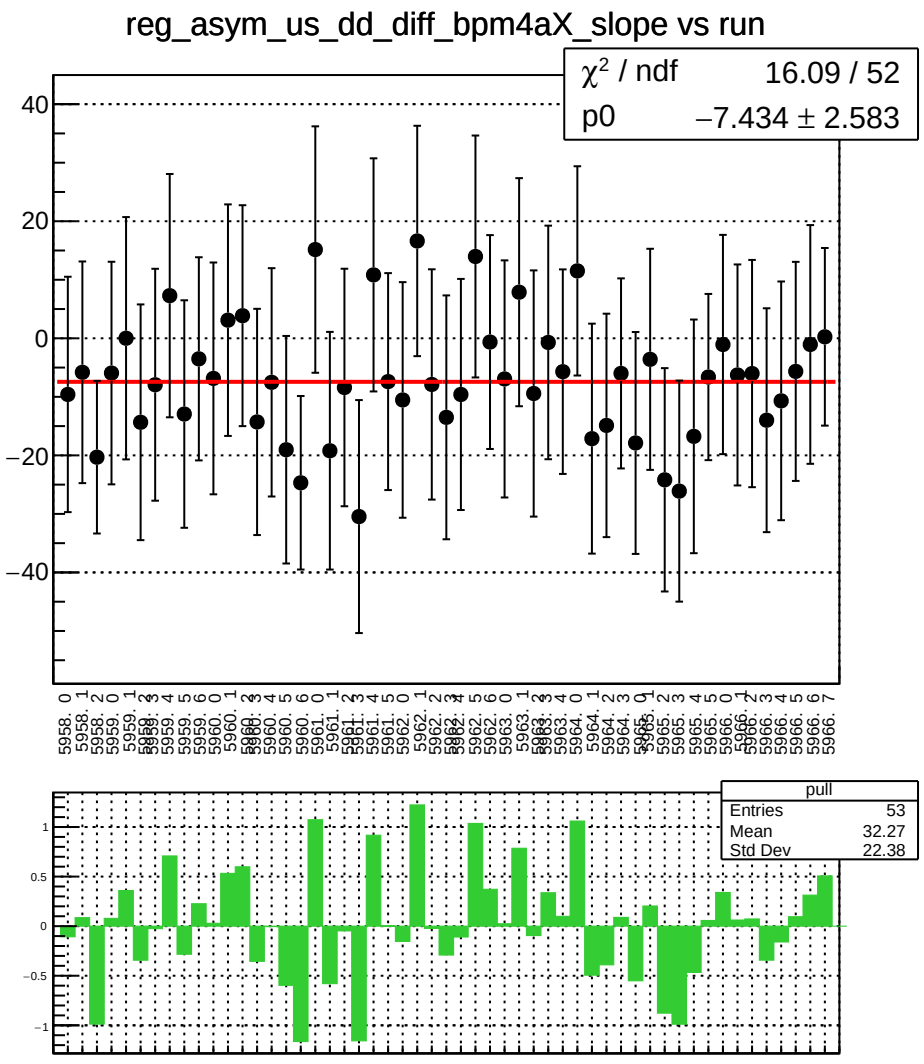

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.74 / 52
p0 104.1 ± 3.011
160
140
120
100
80
60
40
pull
Entries 53
Mean 312.5
Std Dev 283.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 53
Mean 0.01229
Std Dev 0.6692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

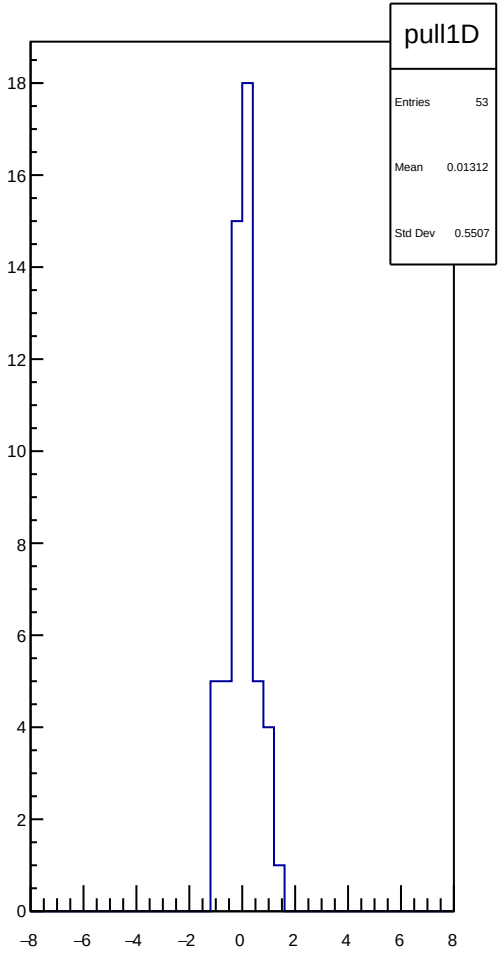

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.14 / 52
p0 17.13 ± 1.39
pull
Entries 53
Mean −769.2
Std Dev 791.1

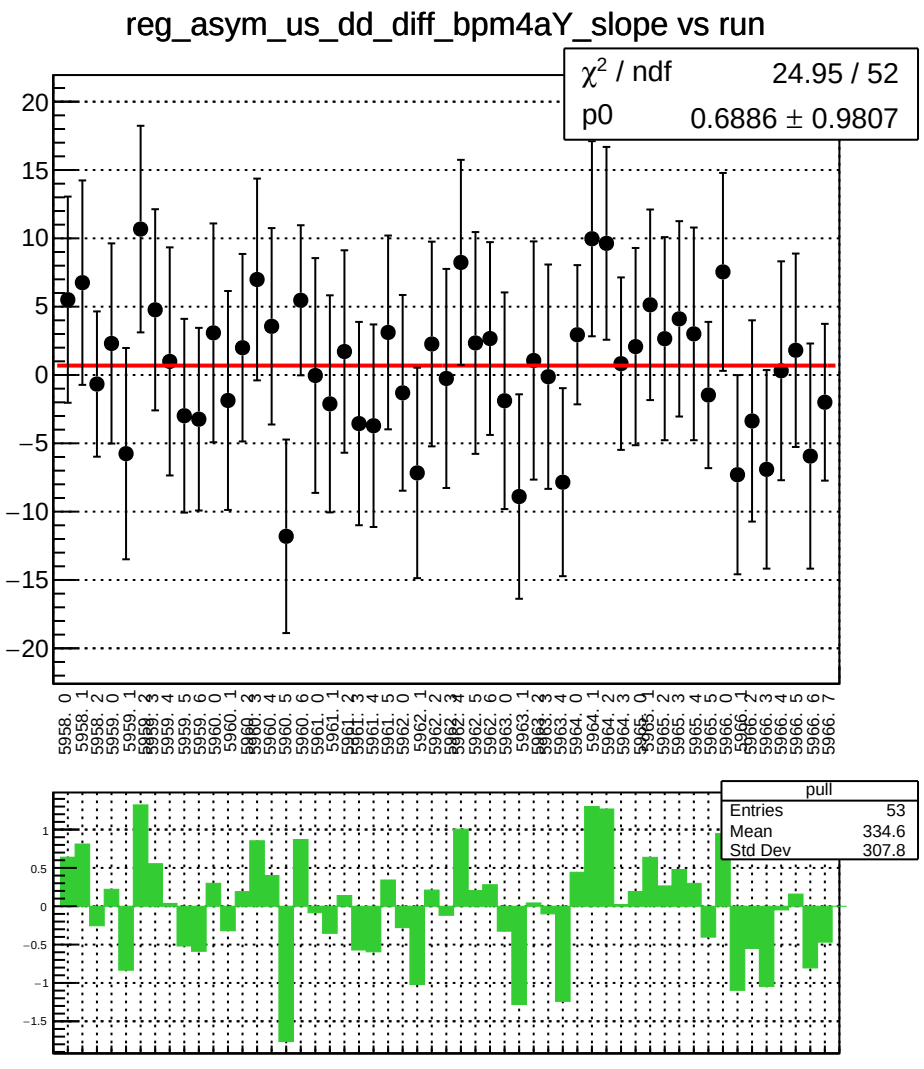

pull1D
Entries 53
Mean 0.003938
Std Dev 0.6009

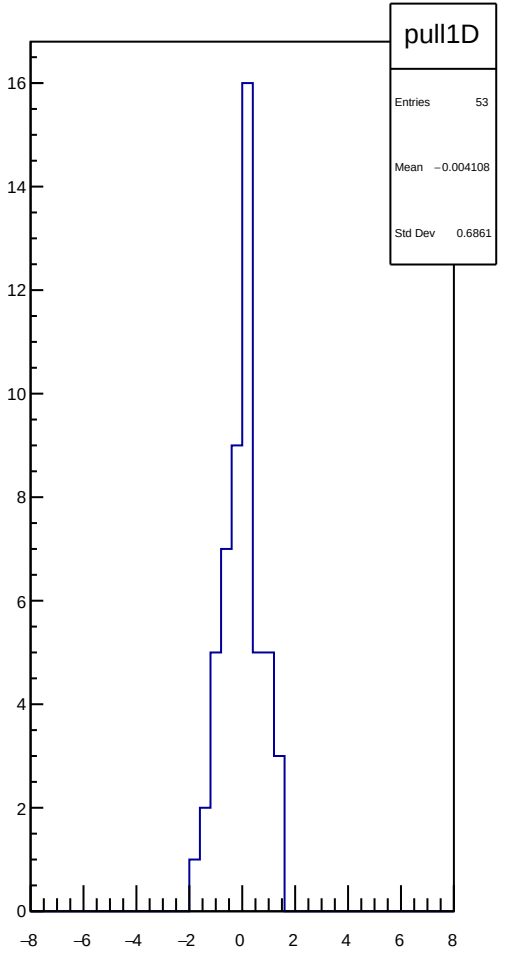

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 40.22 / 52
p0 −37.9 ± 0.1267
pull
Entries 53
Mean 91.92
Std Dev 68.37

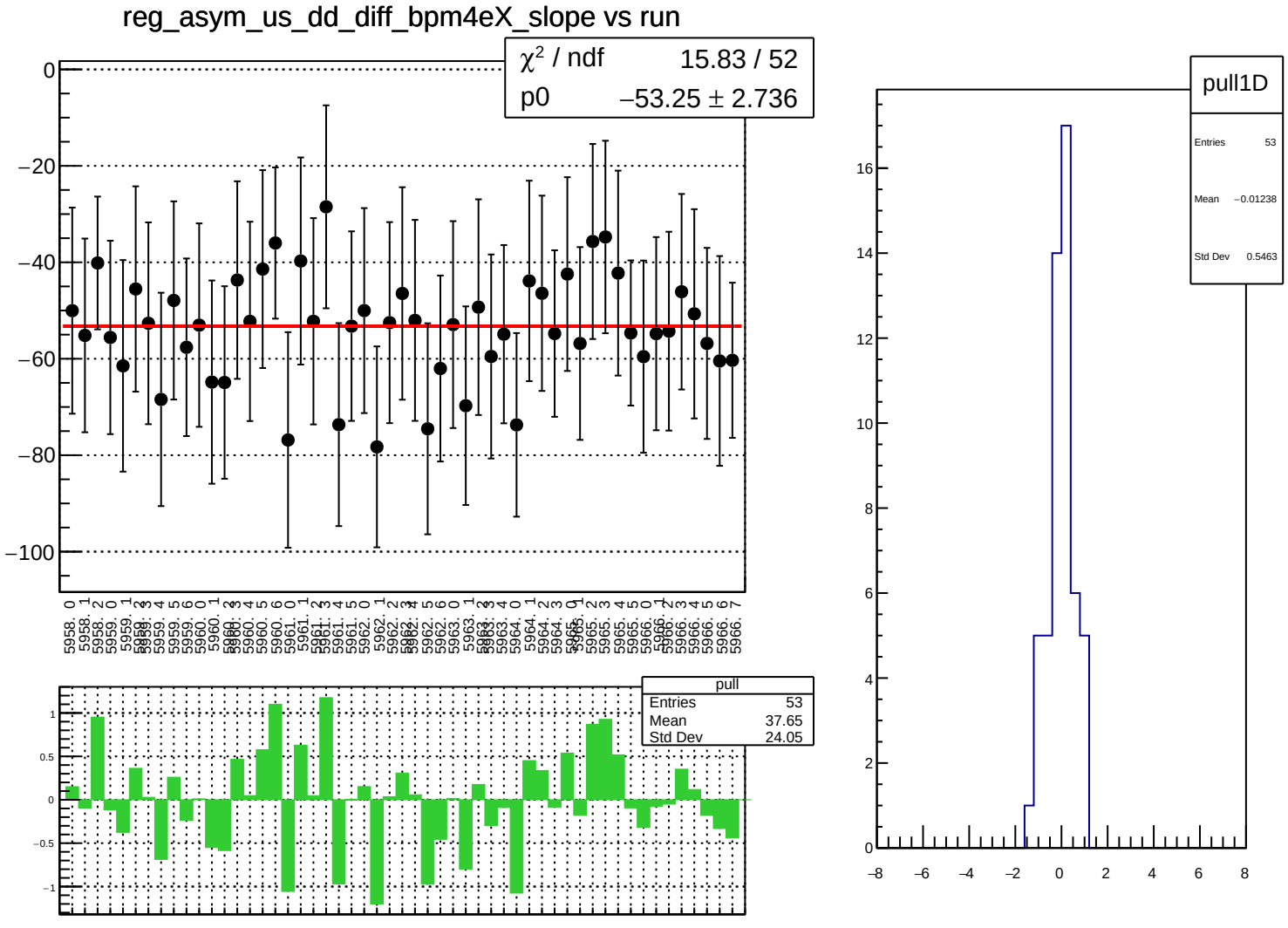

pull1D
Entries 53
Mean −0.01805
Std Dev 0.8709

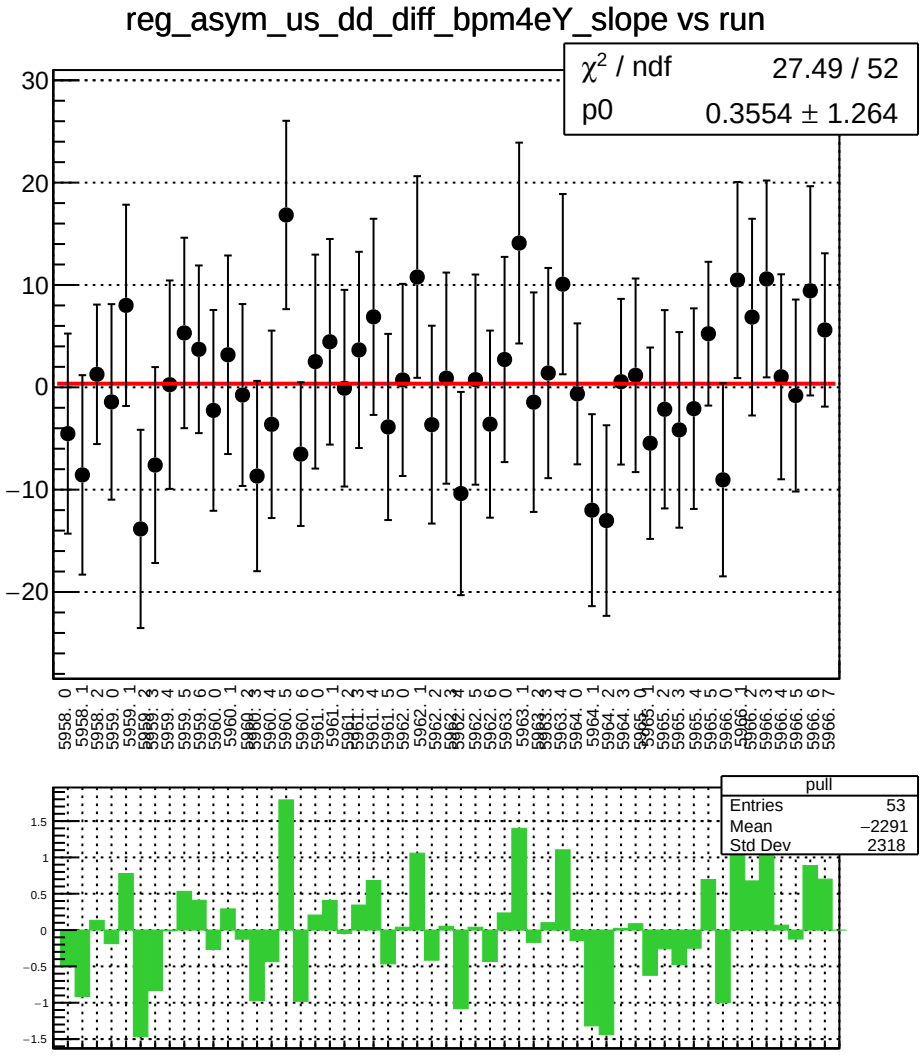

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 16.09 / 52
p0 −7.434 ± 2.583
pull
Entries 53
Mean 32.27
Std Dev 22.38

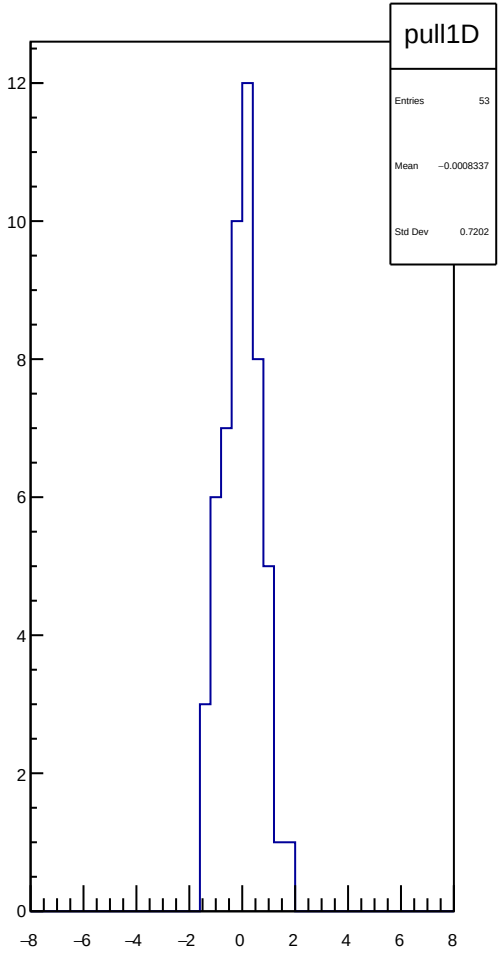

pull1D
Entries 53
Mean 0.01312
Std Dev 0.5507

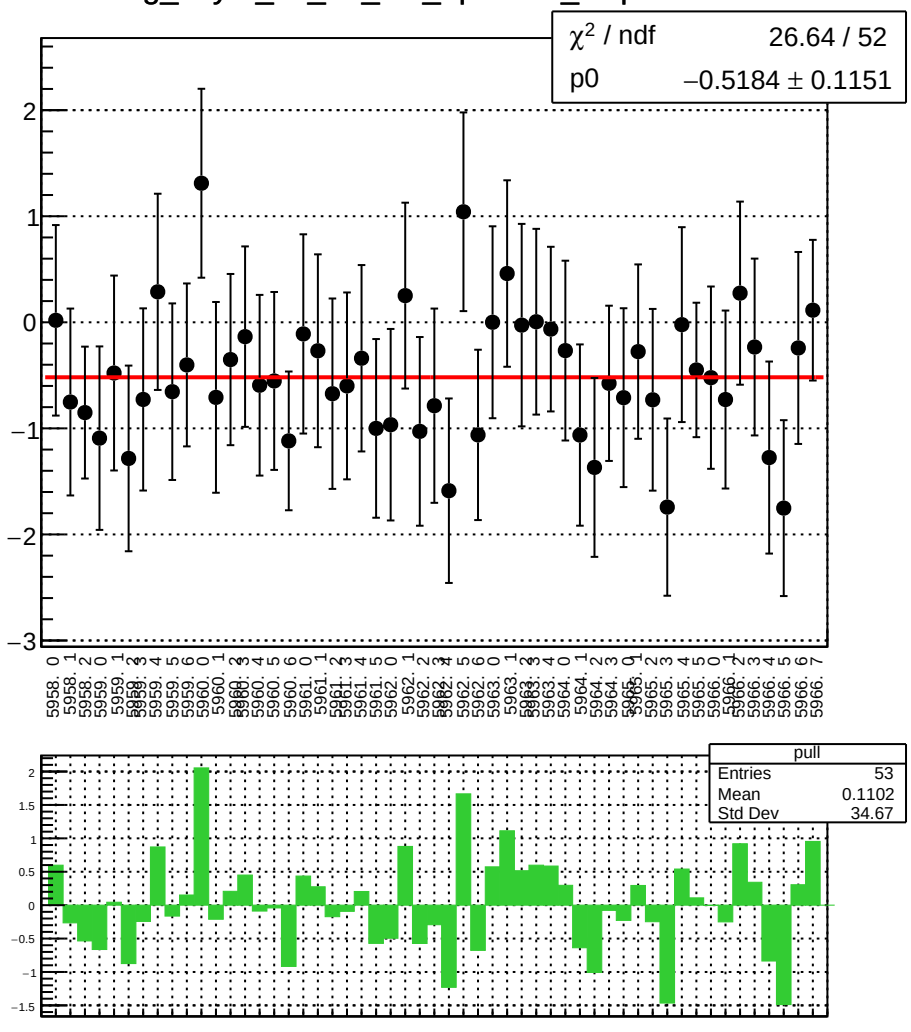

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.95 / 52
p0 0.6886 ± 0.9807
pull
Entries 53
Mean 334.6
Std Dev 307.8

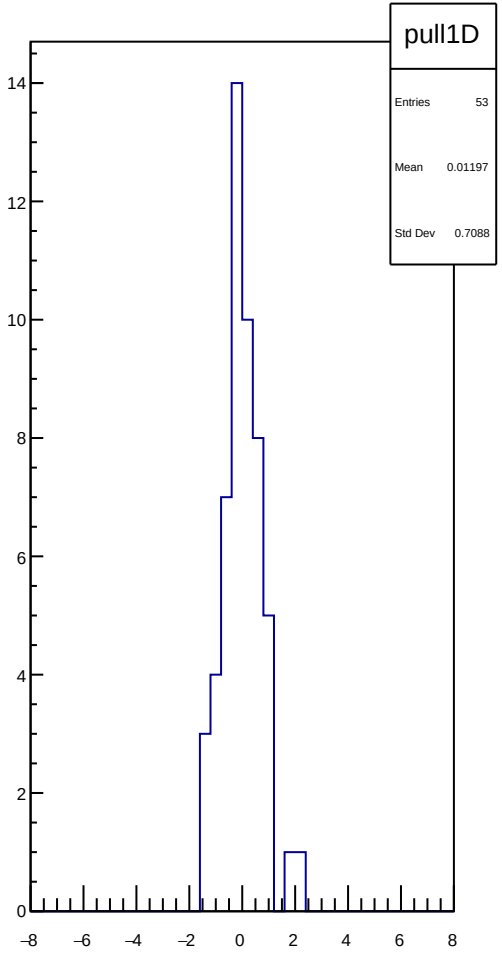

pull1D
Entries 53
Mean −0.004108
Std Dev 0.6861

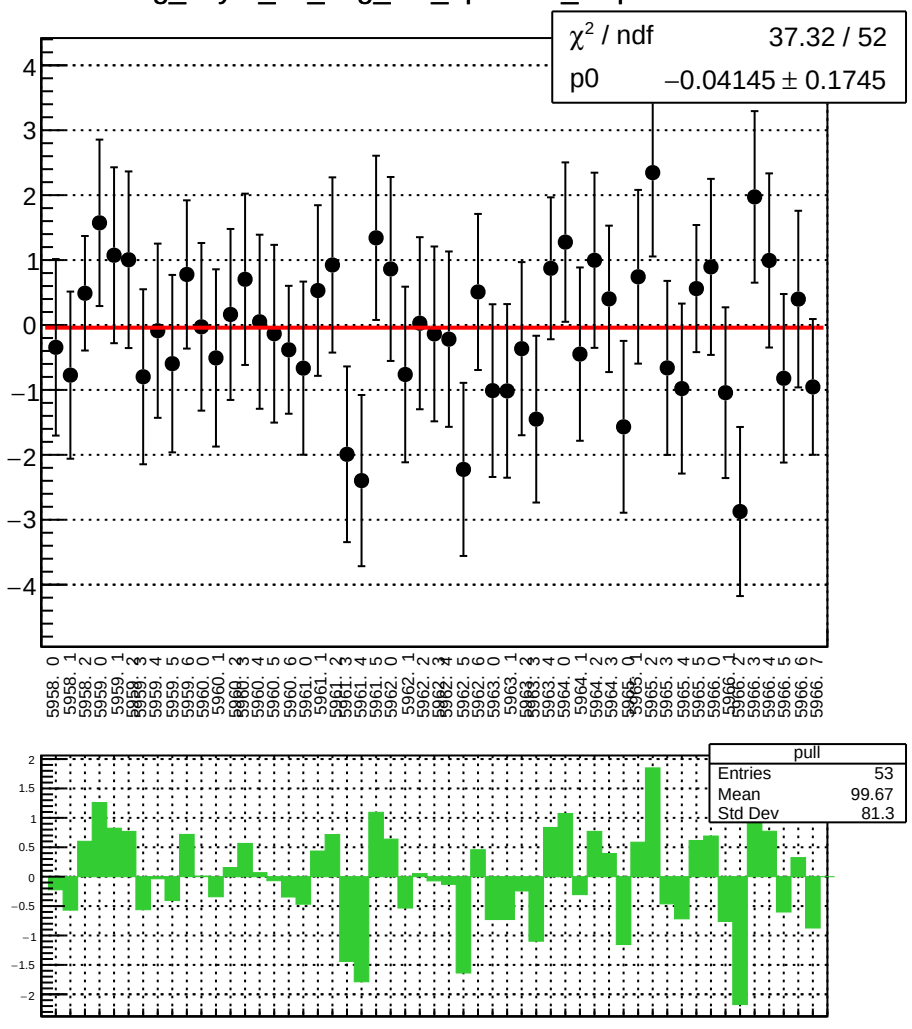

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.83 / 52
p0 −53.25 ± 2.736
pull
Entries 53
Mean 37.65
Std Dev 24.05
pull1D
Entries 53
Mean −0.01238
Std Dev 0.5463

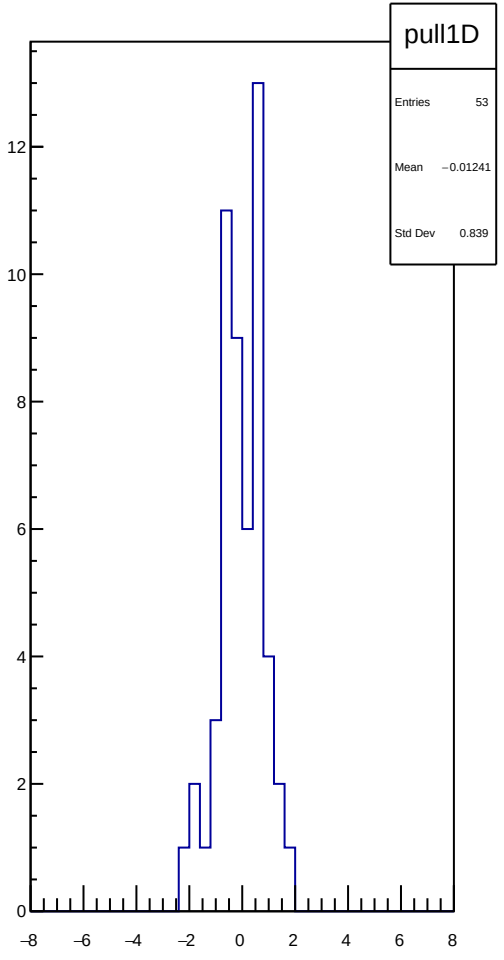

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.49 / 52
p0 0.3554 ± 1.264
pull
Entries 53
Mean −2291
Std Dev 2318

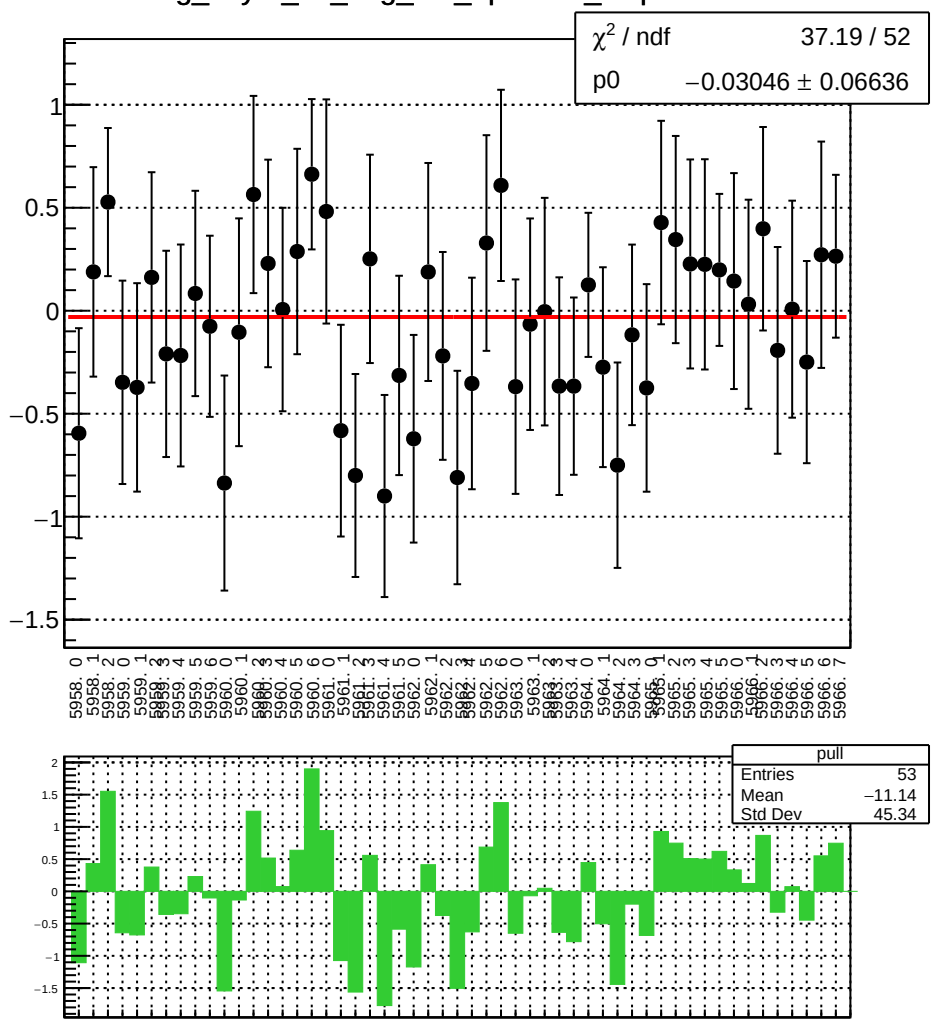

pull1D
Entries 53
Mean −0.0008337
Std Dev 0.7202

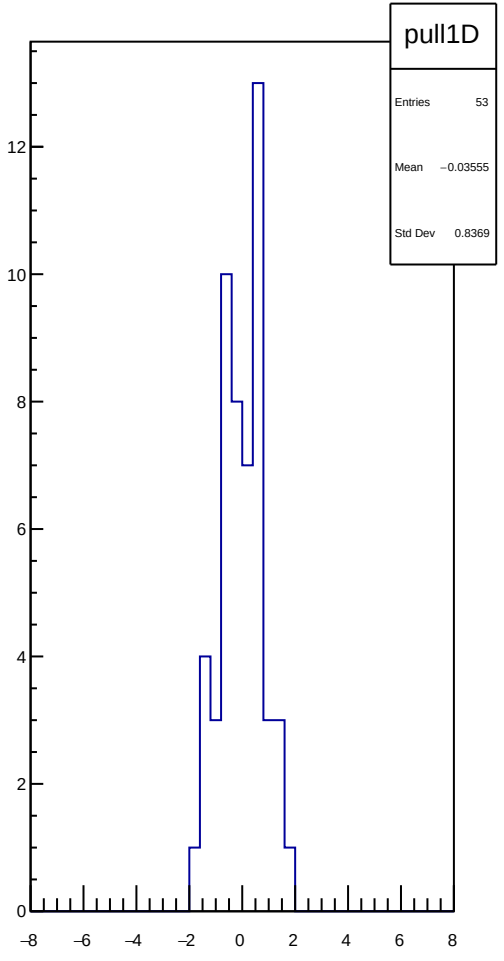

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 26.64 / 52
p0 −0.5184 ± 0.1151
pull
Entries 53
Mean 0.1102
Std Dev 34.67

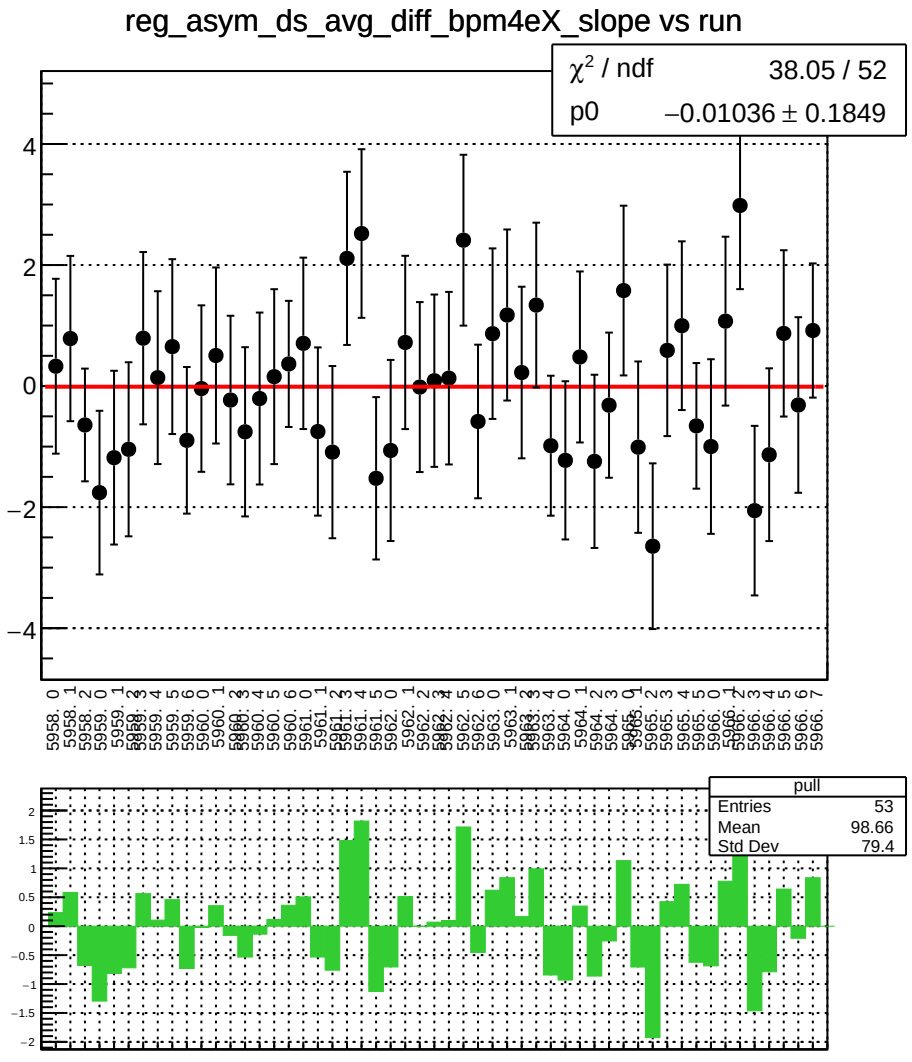

pull1D
Entries 53
Mean 0.01197
Std Dev 0.7088

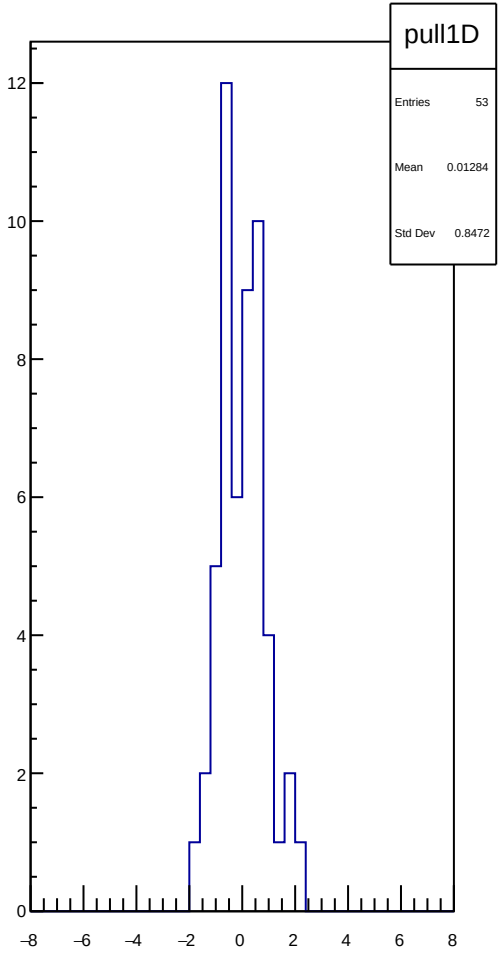

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 37.32 / 52
p0 −0.04145 ± 0.1745
pull
Entries 53
Mean 99.67
Std Dev 81.3

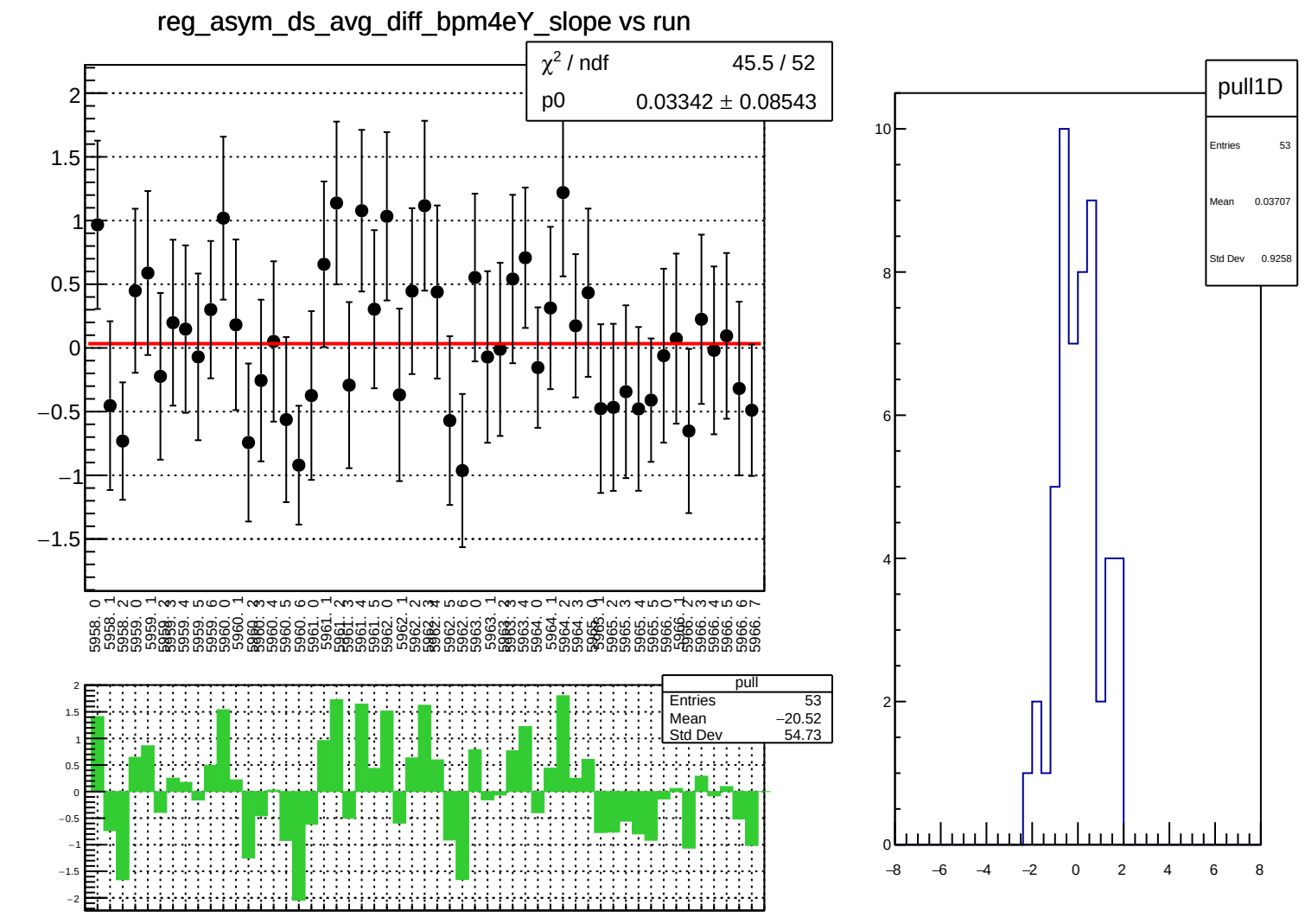

pull1D
Entries 53
Mean −0.01241
Std Dev 0.839

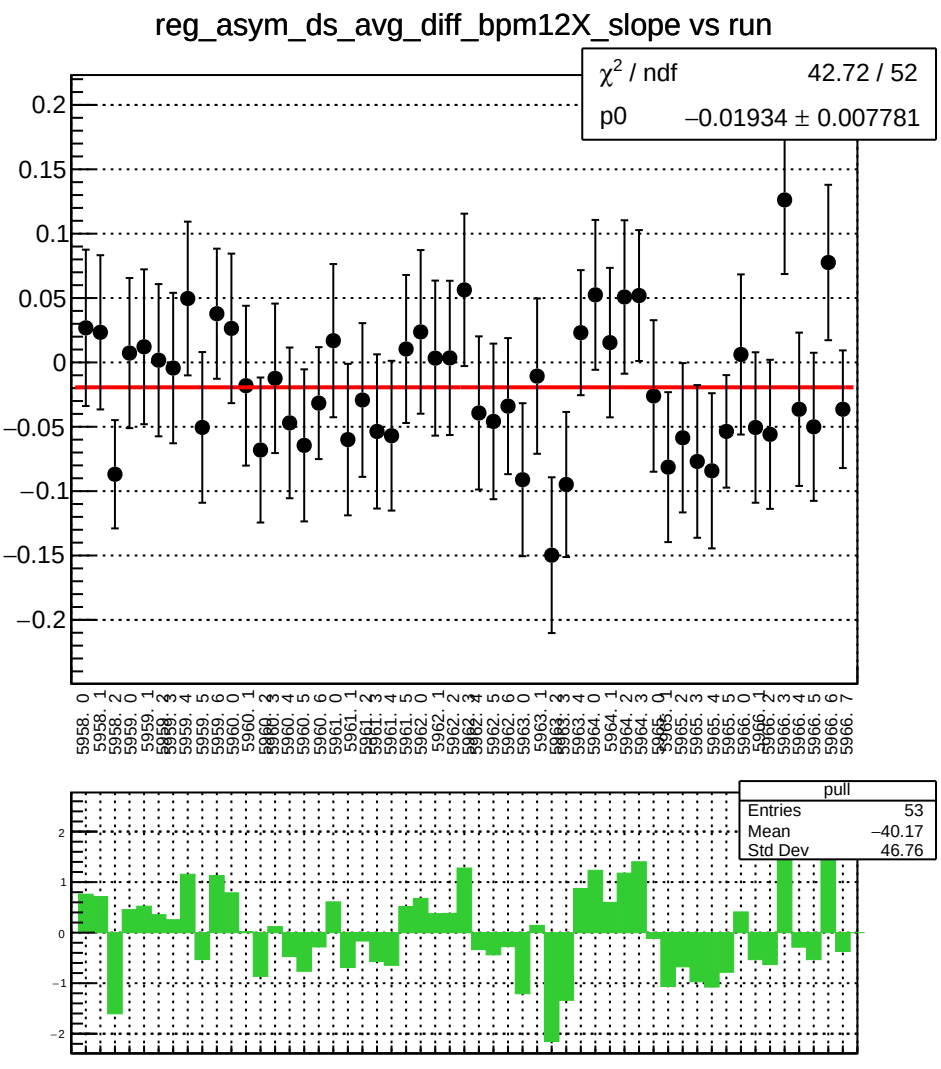

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.19 / 52
p0 −0.03046 ± 0.06636
pull
Entries 53
Mean −11.14
Std Dev 45.34

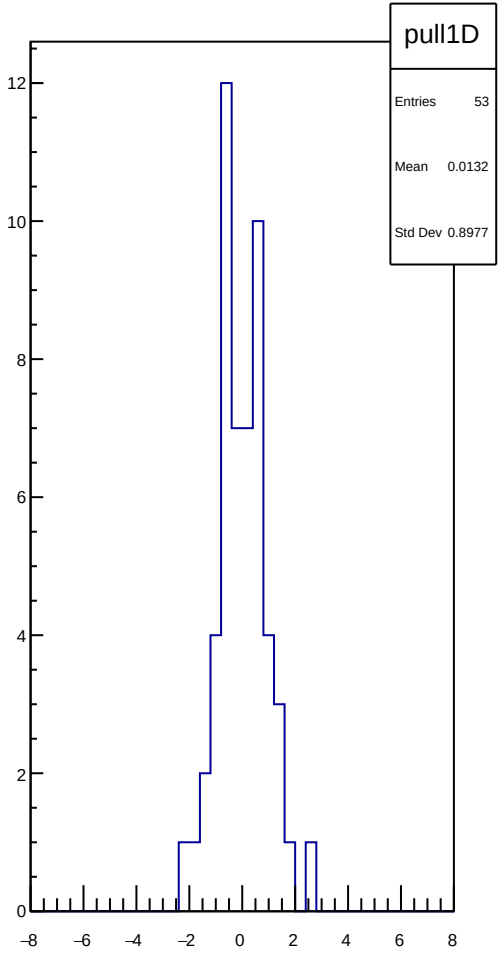

pull1D
Entries 53
Mean −0.03555
Std Dev 0.8369

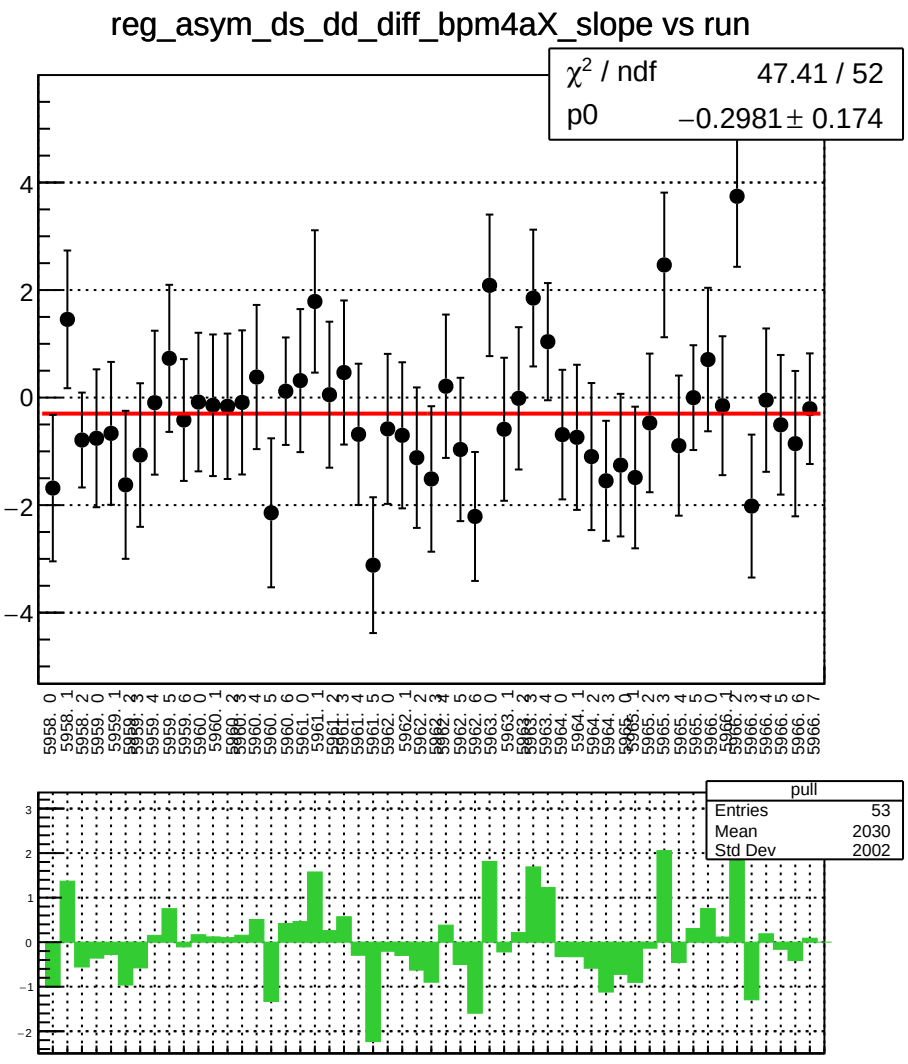

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.05 / 52
p0 −0.01036 ± 0.1849
pull
Entries 53
Mean 98.66
Std Dev 79.4

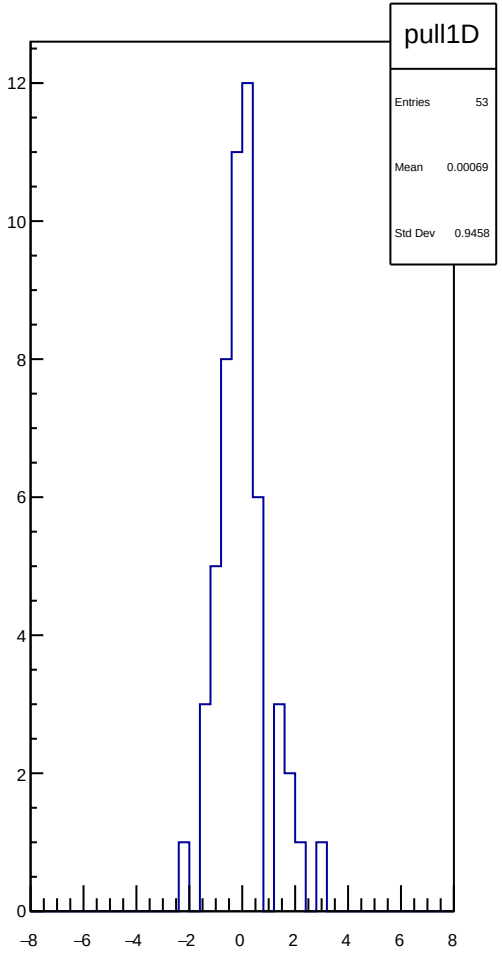

pull1D
Entries 53
Mean 0.01284
Std Dev 0.8472

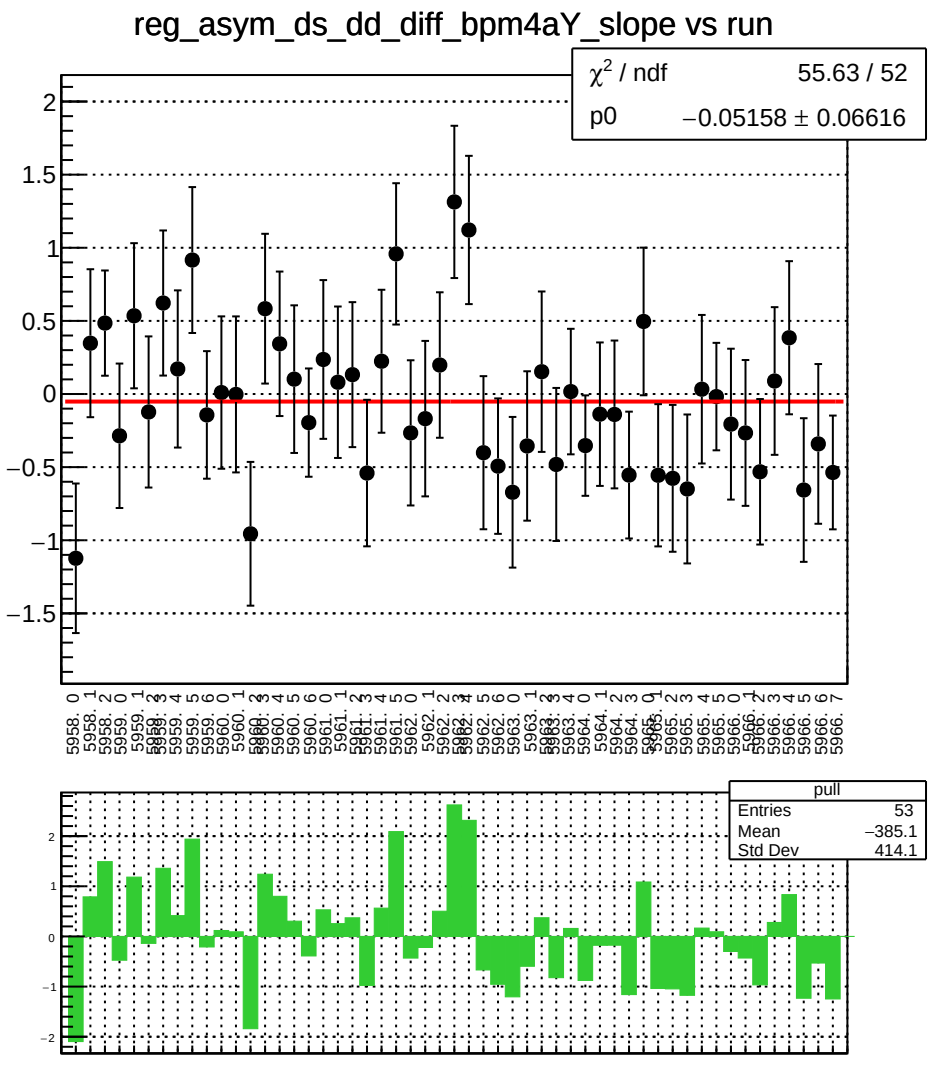

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.5 / 52
p0 0.03342 ± 0.08543
pull
Entries 53
Mean −20.52
Std Dev 54.73
pull1D
Entries 53
Mean 0.03707
Std Dev 0.9258

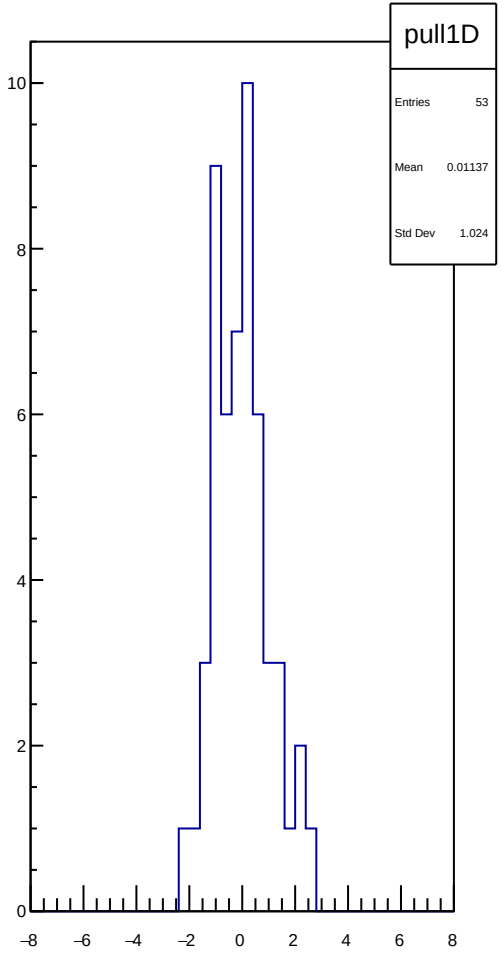

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 42.72 / 52
p0 −0.01934 ± 0.007781
pull
Entries 53
Mean −40.17
Std Dev 46.76

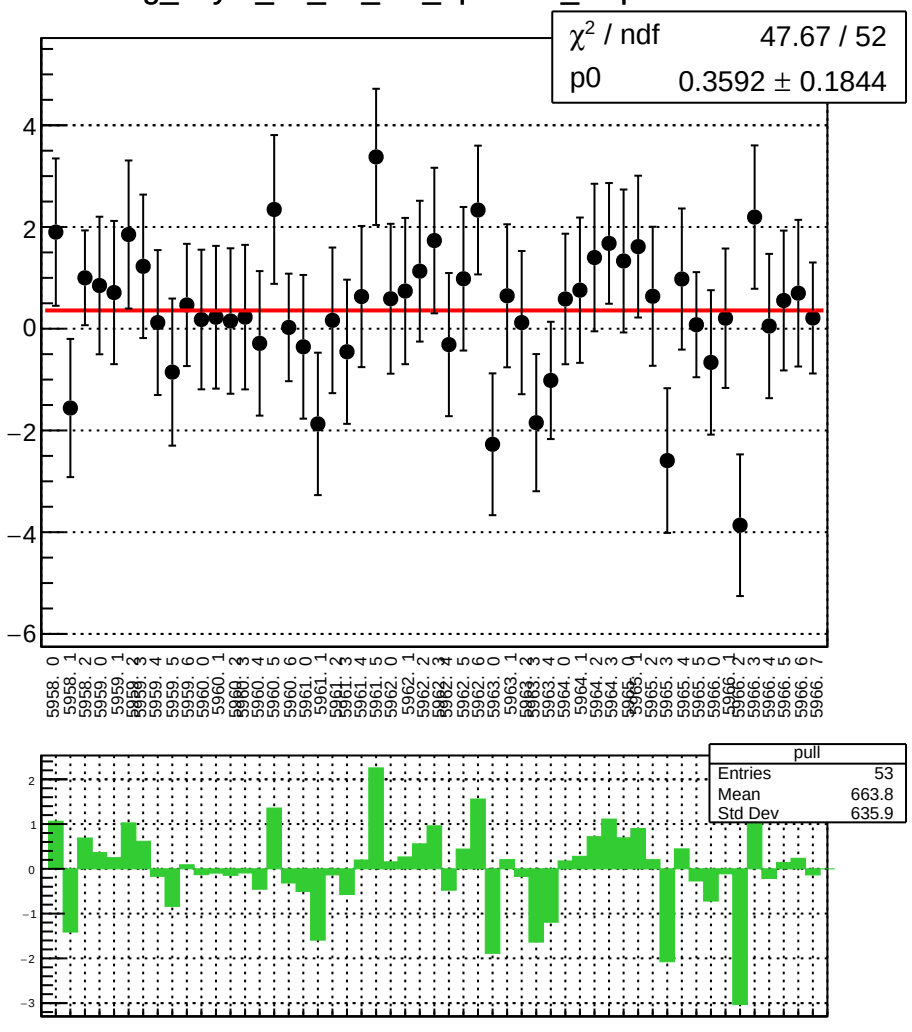

pull1D
Entries 53
Mean 0.0132
Std Dev 0.8977

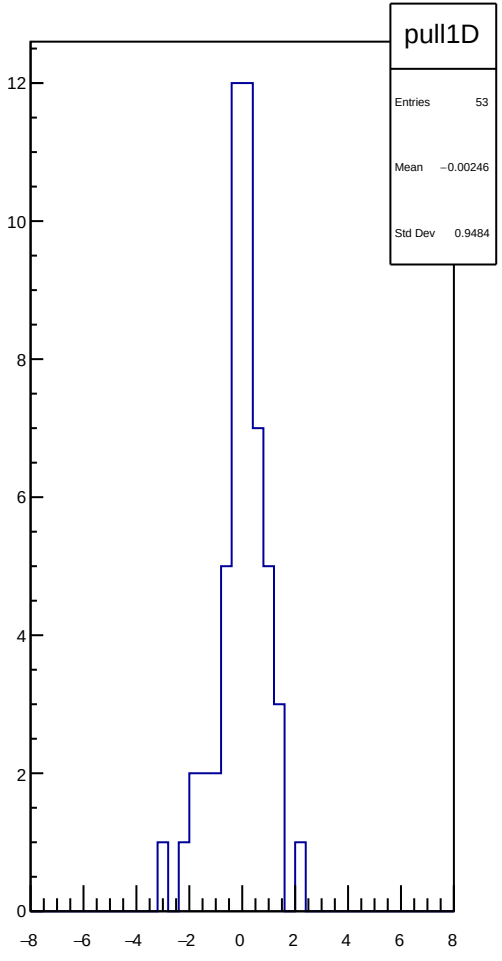

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 47.41 / 52
p0 −0.2981 ± 0.174
pull
Entries 53
Mean 2030
Std Dev 2002

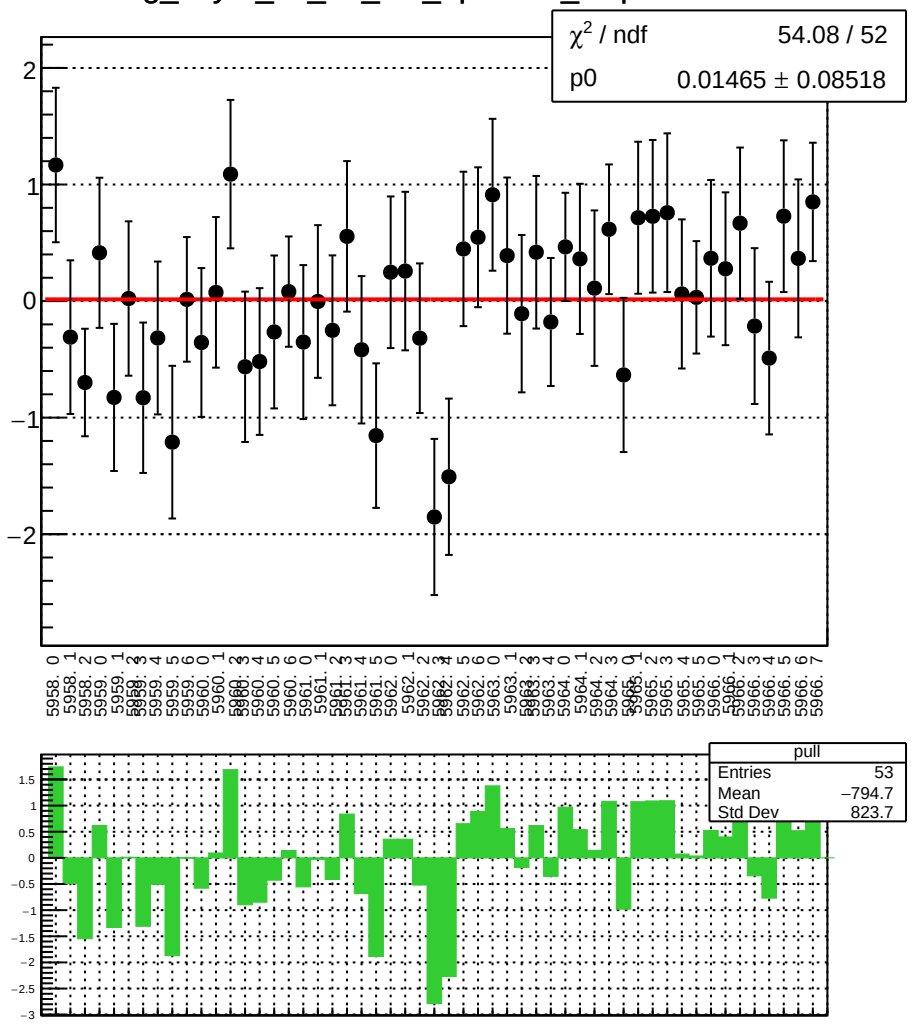

pull1D
Entries 53
Mean 0.00069
Std Dev 0.9458

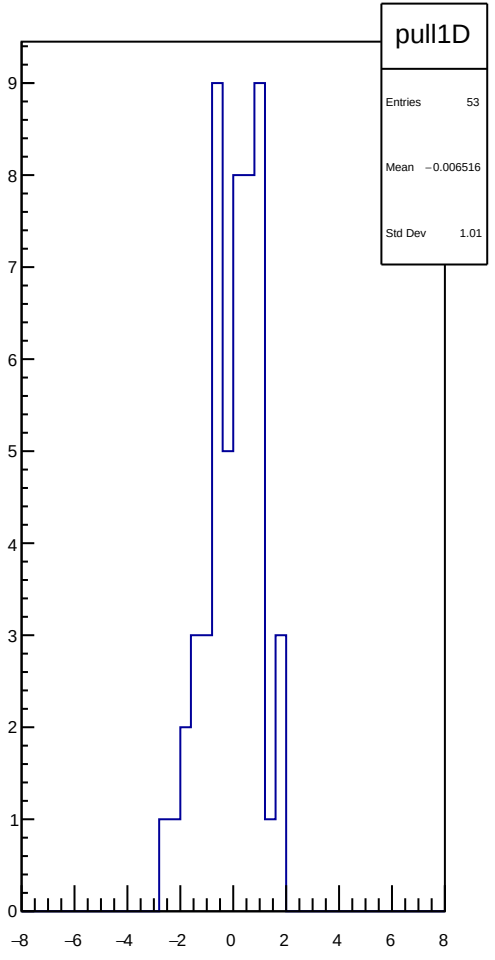

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.63 / 52
p0 −0.05158 ± 0.06616
pull
Entries 53
Mean −385.1
Std Dev 414.1

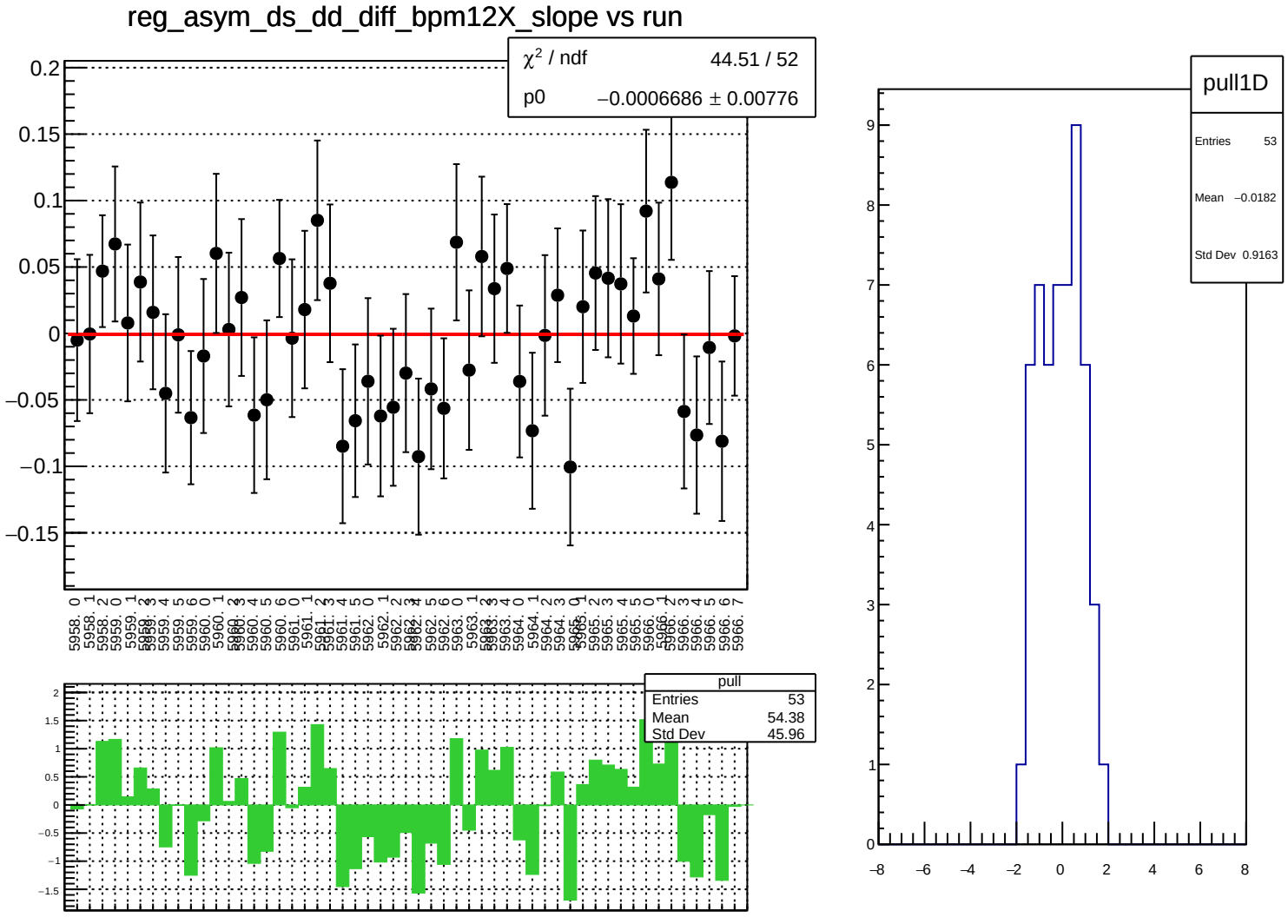

pull1D
Entries 53
Mean 0.01137
Std Dev 1.024

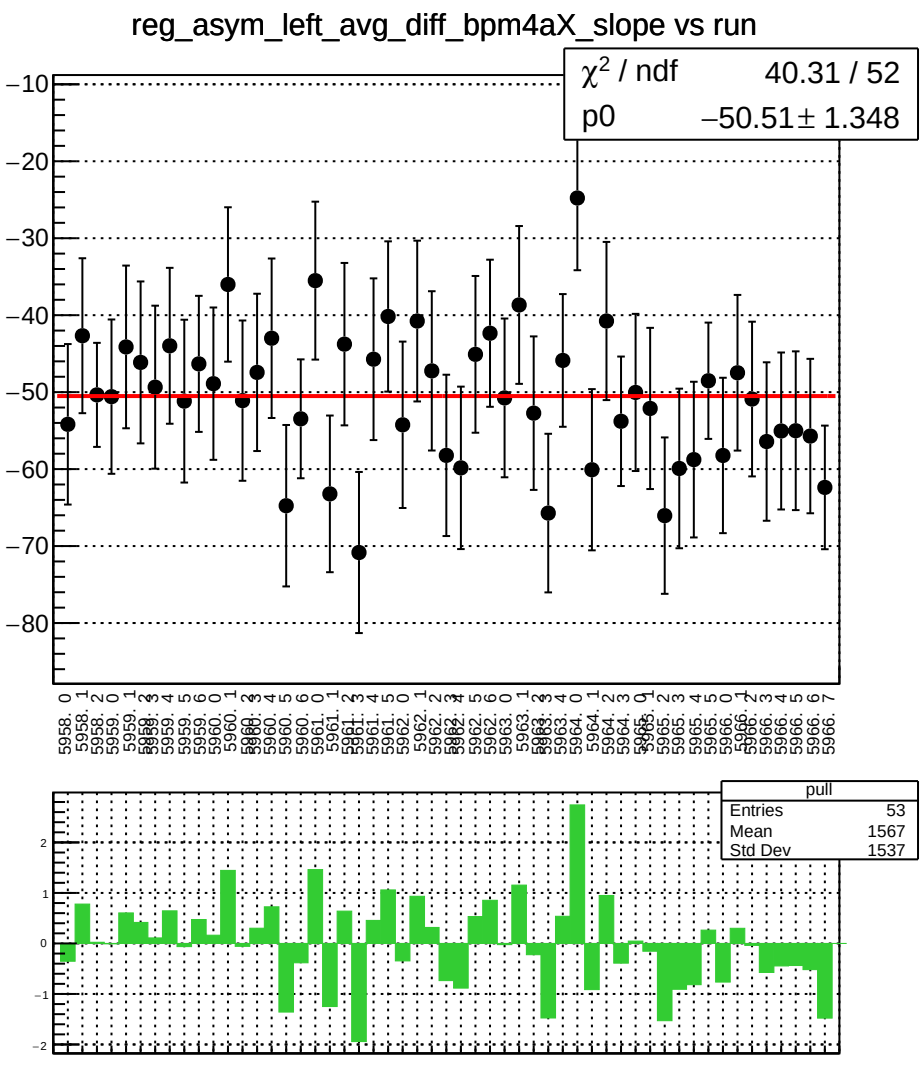

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.67 / 52
p0 0.3592 ± 0.1844
pull
Entries 53
Mean 663.8
Std Dev 635.9

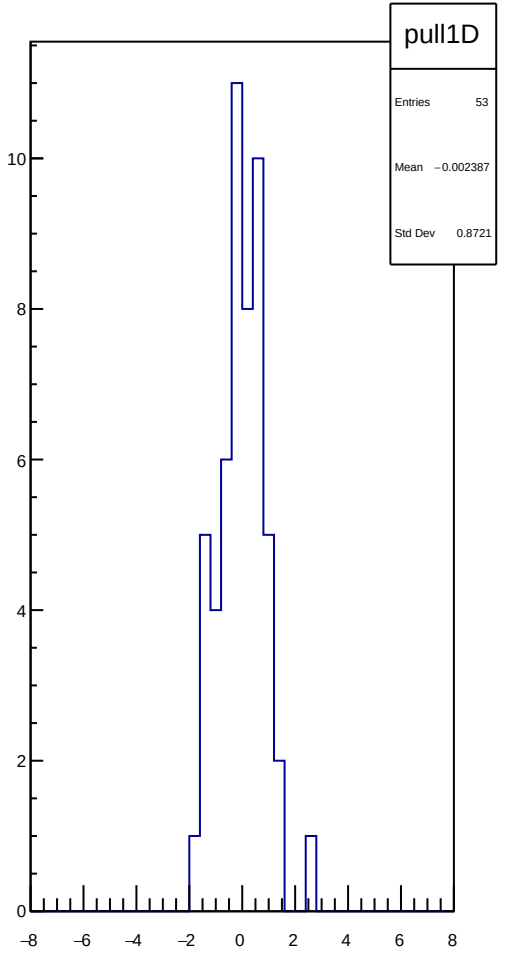

pull1D
Entries 53
Mean −0.00246
Std Dev 0.9484

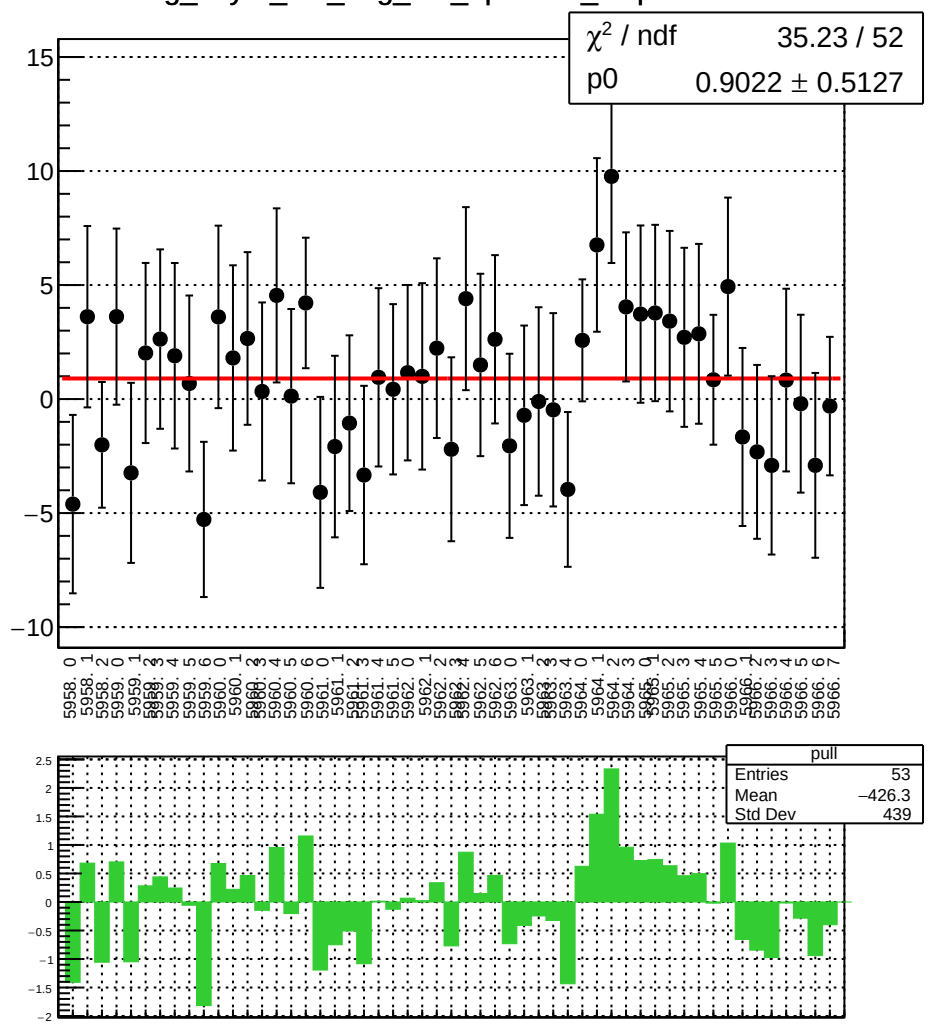

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.08 / 52
p0 0.01465 ± 0.08518
pull
Entries 53
Mean −794.7
Std Dev 823.7

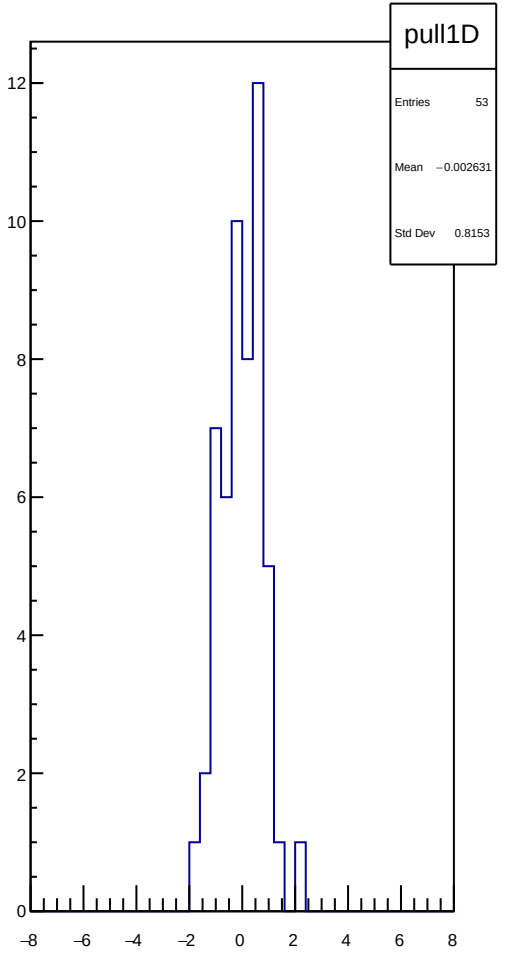

pull1D
Entries 53
Mean −0.006516
Std Dev 1.01

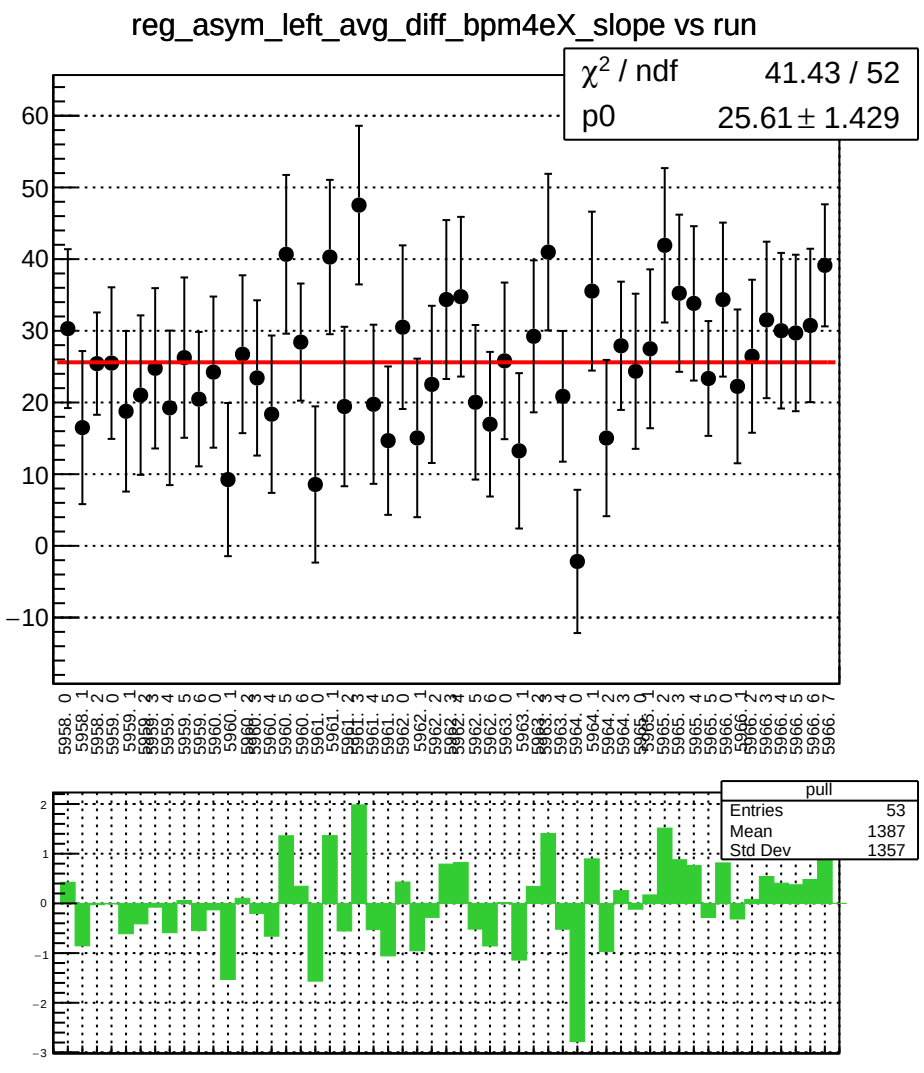

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 44.51 / 52
p0 −0.0006686 ± 0.00776
pull
Entries 53
Mean 54.38
Std Dev 45.96
pull1D
Entries 53
Mean −0.0182
Std Dev 0.9163

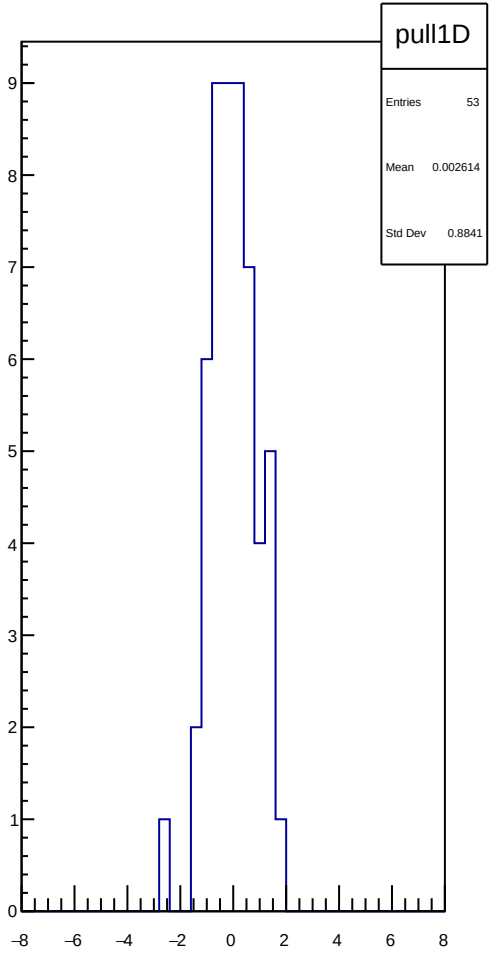

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.31 / 52
p0 −50.51 ± 1.348
pull
Entries 53
Mean 1567
Std Dev 1537

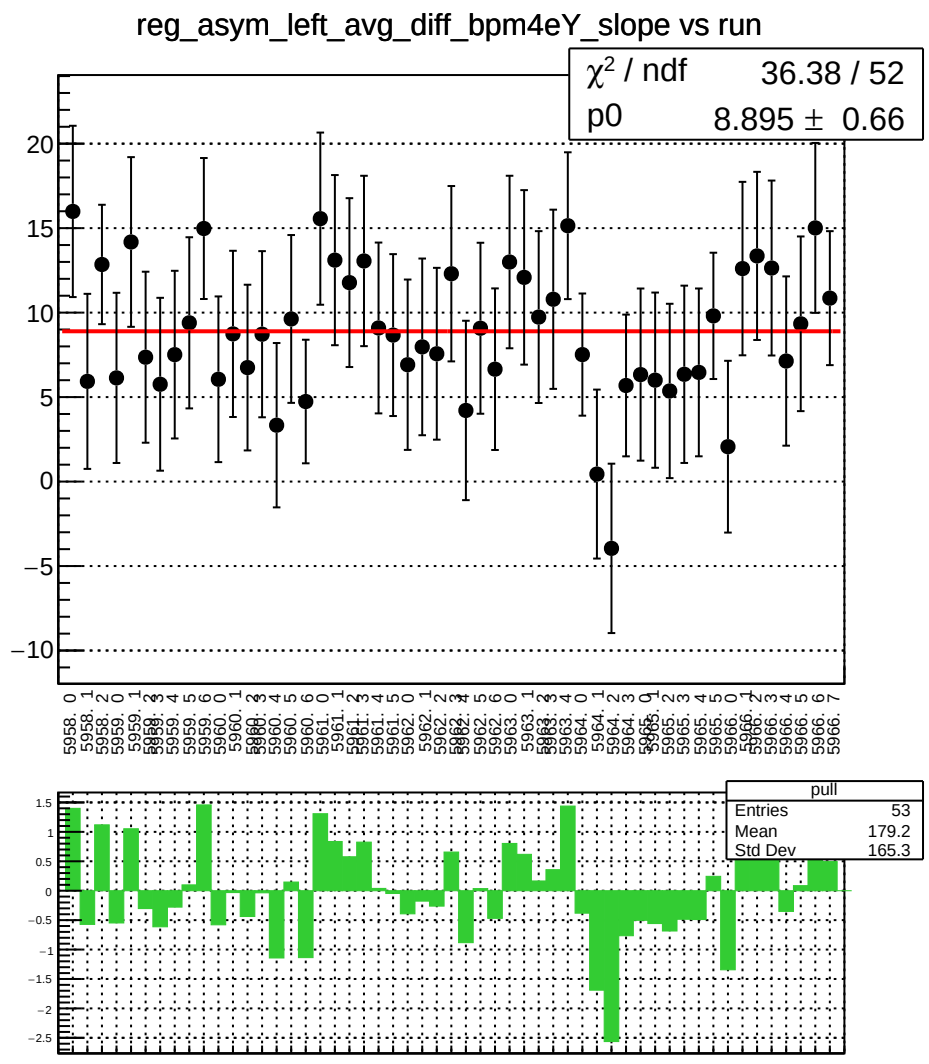

pull1D
Entries 53
Mean −0.002387
Std Dev 0.8721

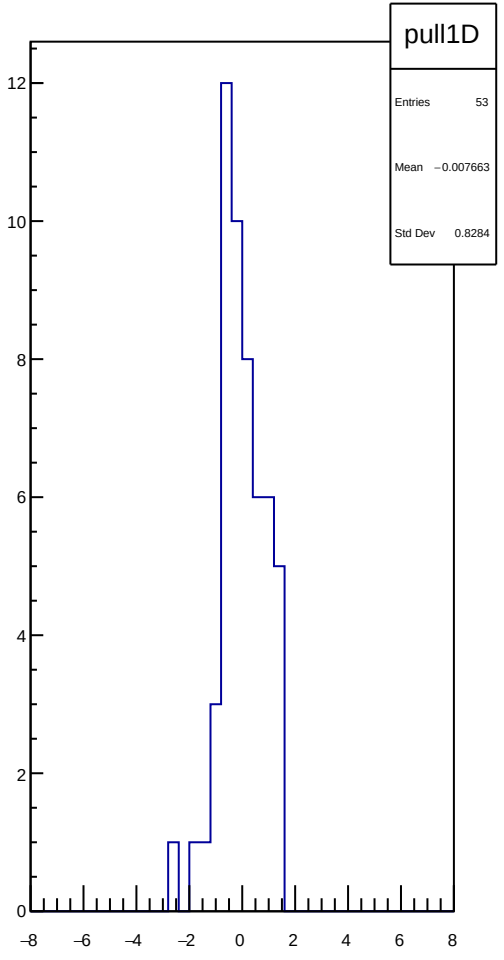

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.23 / 52
p0 0.9022 ± 0.5127
pull
Entries 53
Mean −426.3
Std Dev 439

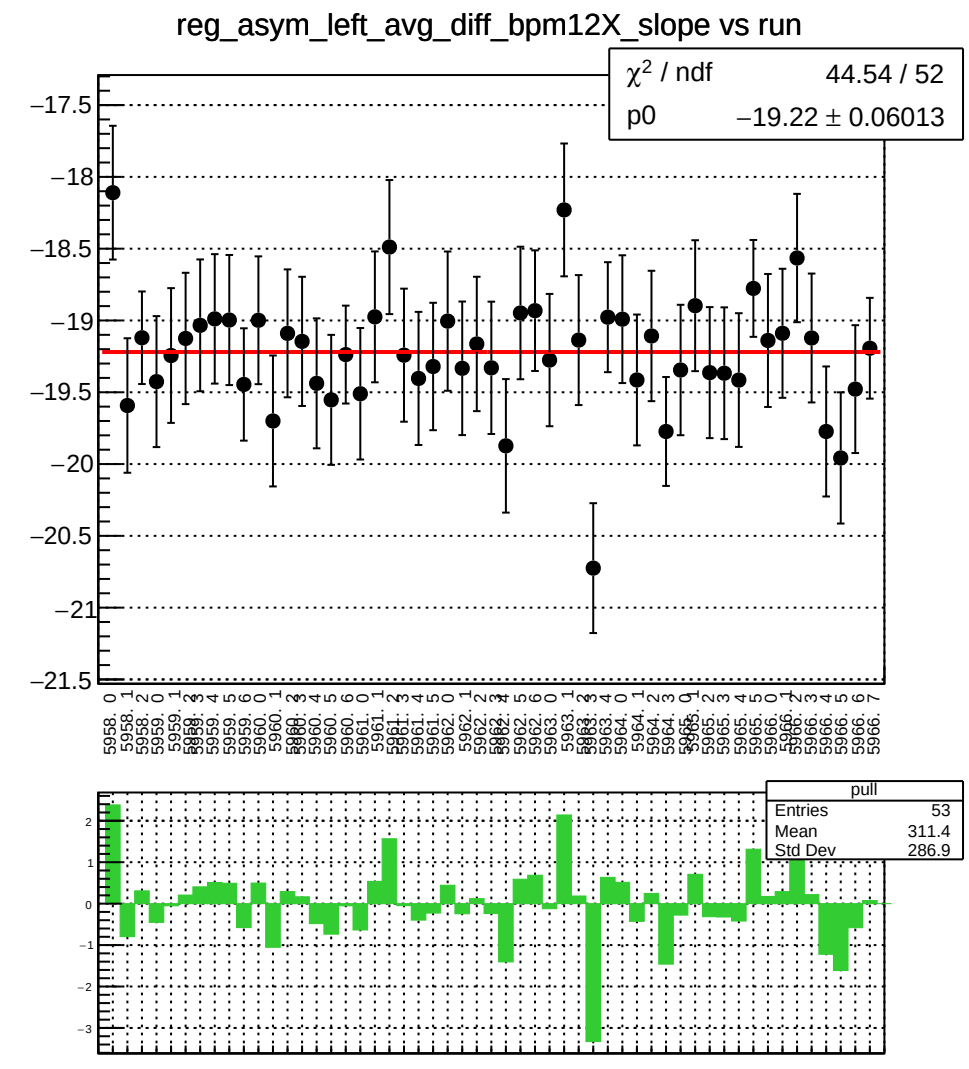

pull1D
Entries 53
Mean −0.002631
Std Dev 0.8153

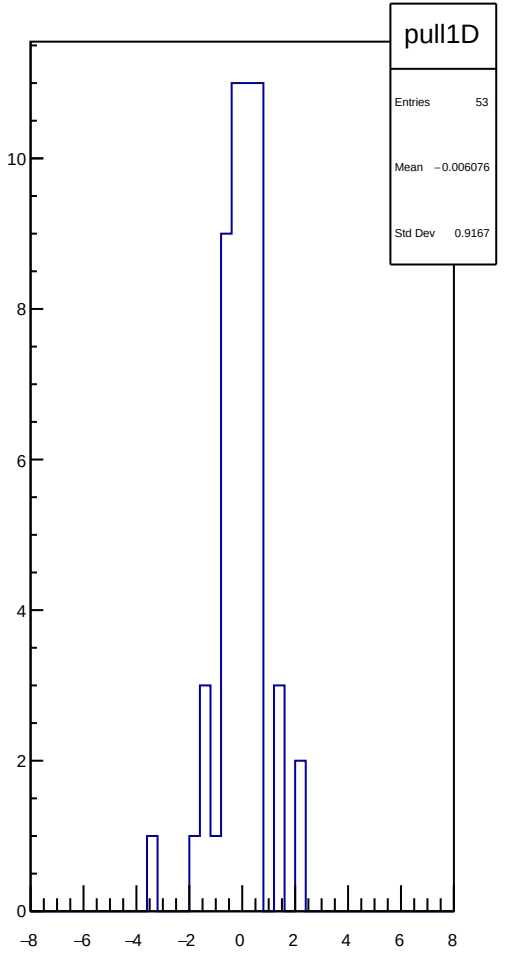

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.43 / 52
p0 25.61 ± 1.429
pull
Entries 53
Mean 1387
Std Dev 1357

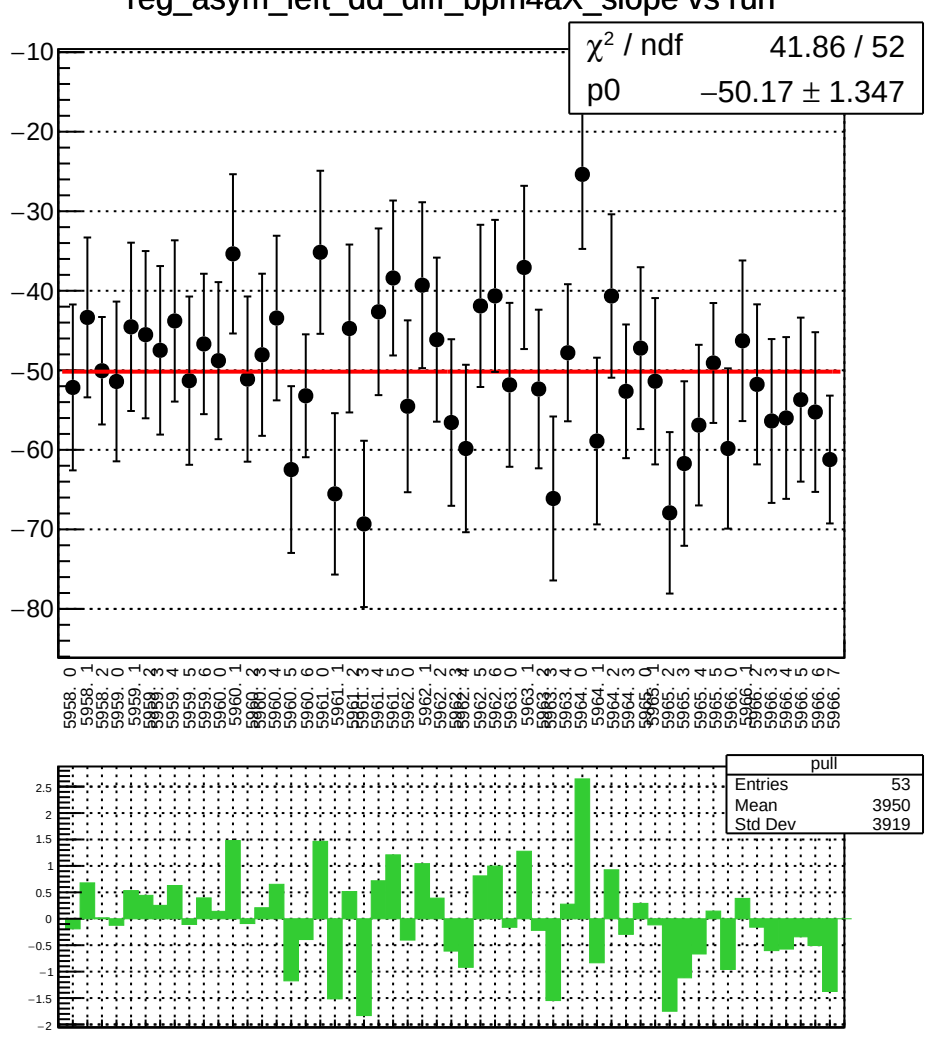

pull1D
Entries 53
Mean 0.002614
Std Dev 0.8841

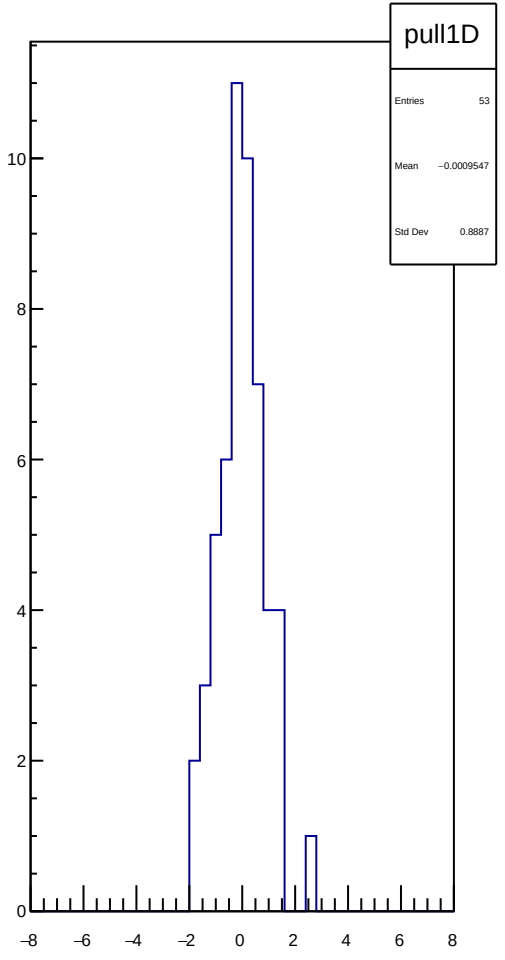

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.38 / 52
p0 8.895 ± 0.66
pull
Entries 53
Mean 179.2
Std Dev 165.3

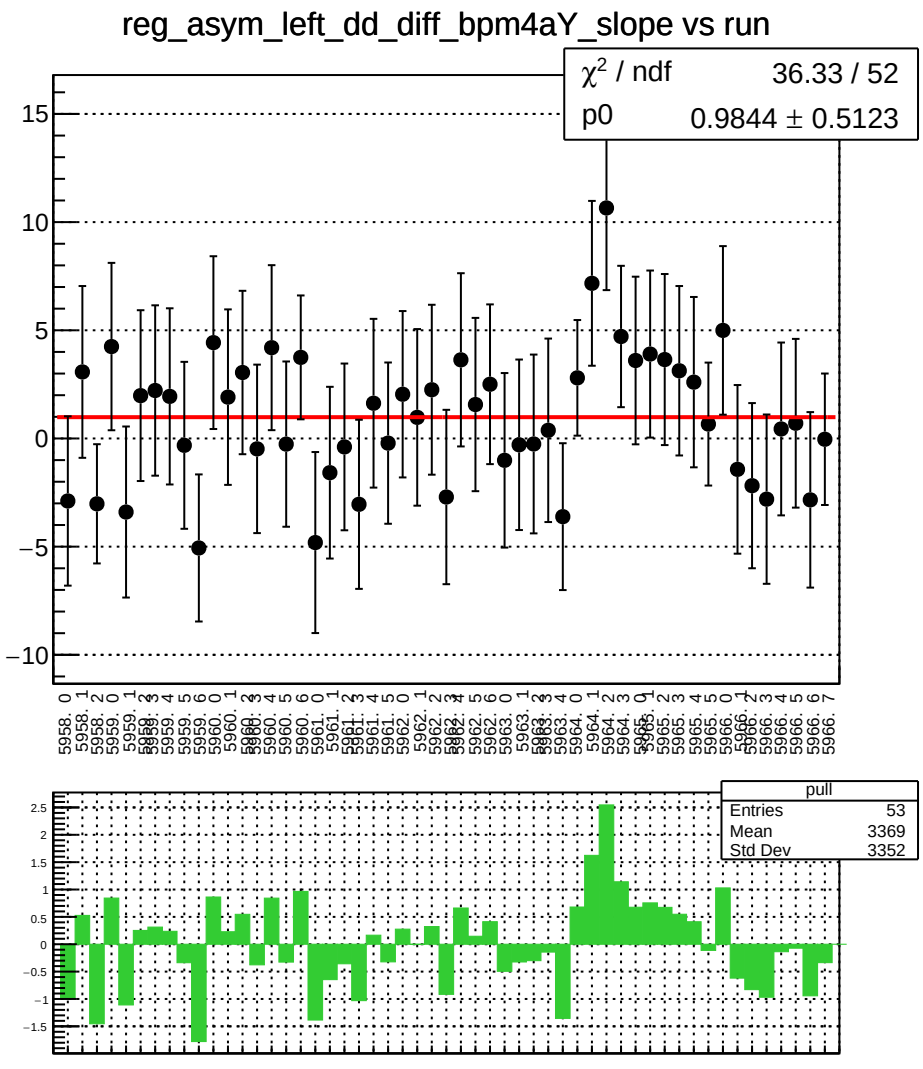

pull1D
Entries 53
Mean −0.007663
Std Dev 0.8284

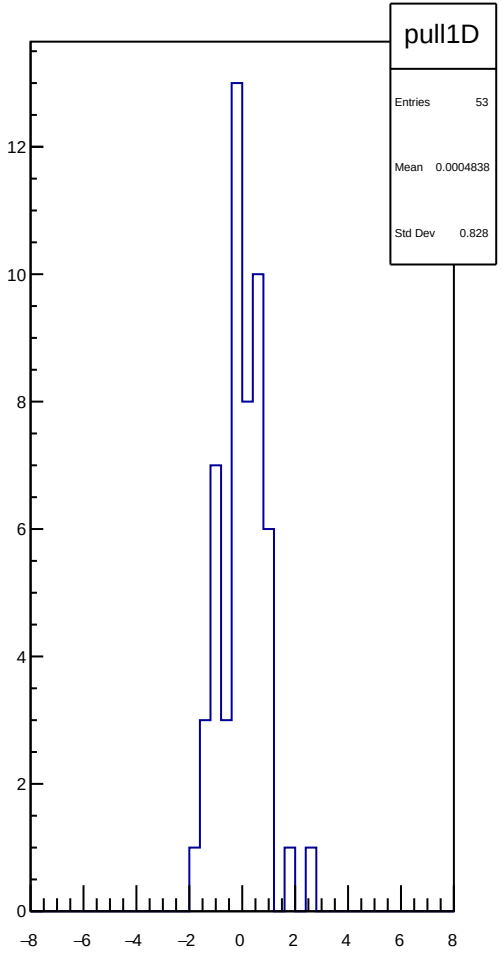

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 44.54 / 52
p0 −19.22 ± 0.06013
pull
Entries 53
Mean 311.4
Std Dev 286.9

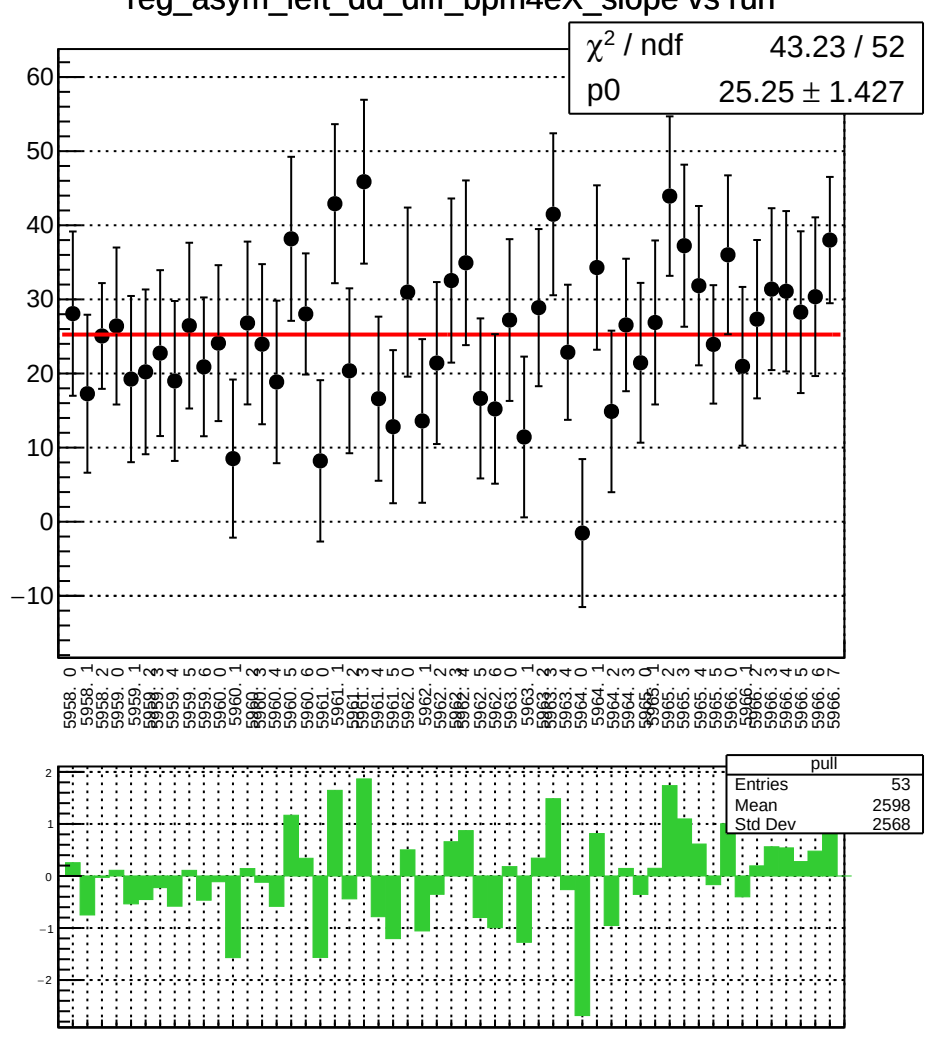

pull1D
Entries 53
Mean −0.006076
Std Dev 0.9167

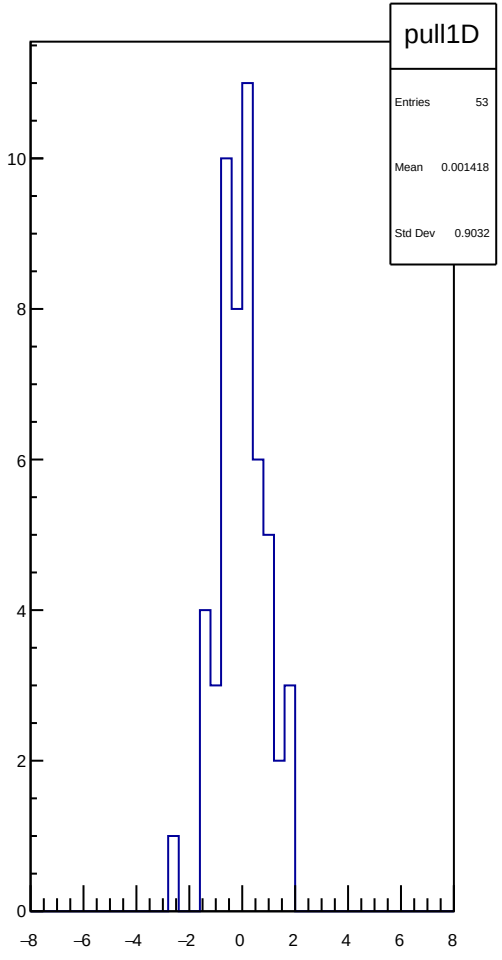

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 41.86 / 52
p0 −50.17 ± 1.347
pull
Entries 53
Mean 3950
Std Dev 3919

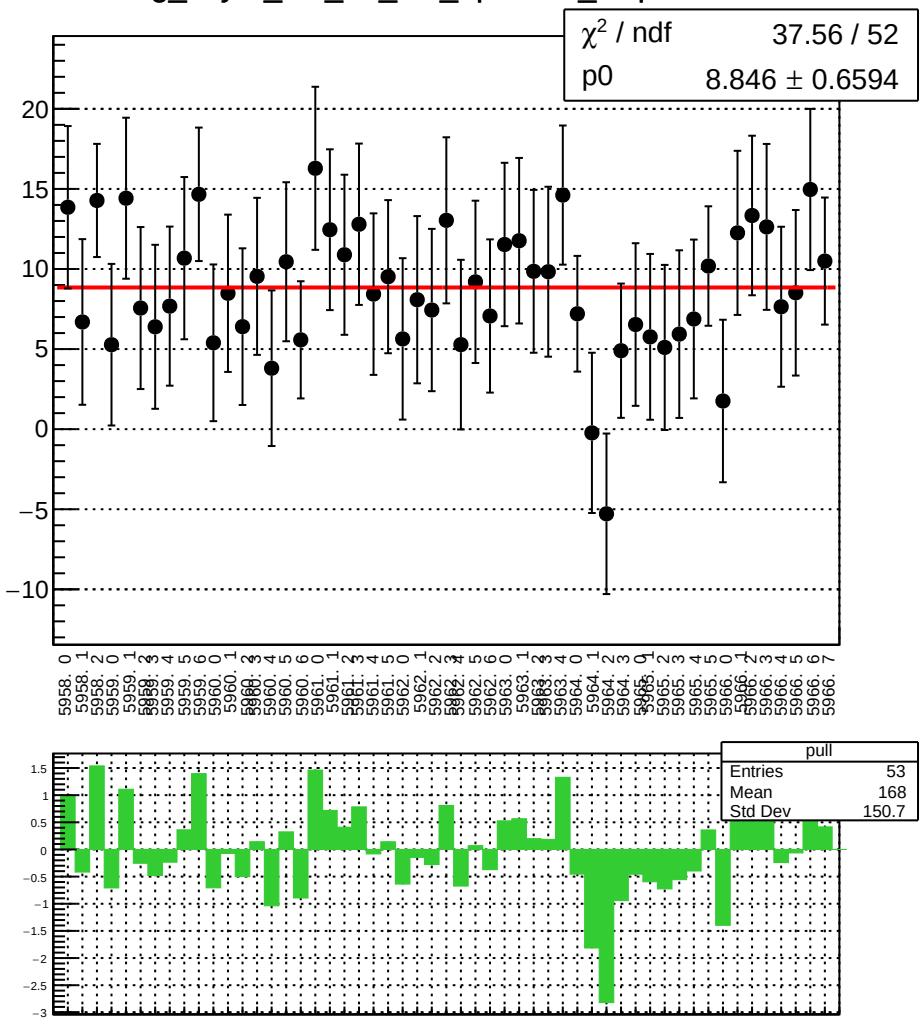

pull1D
Entries 53
Mean −0.0009547
Std Dev 0.8887

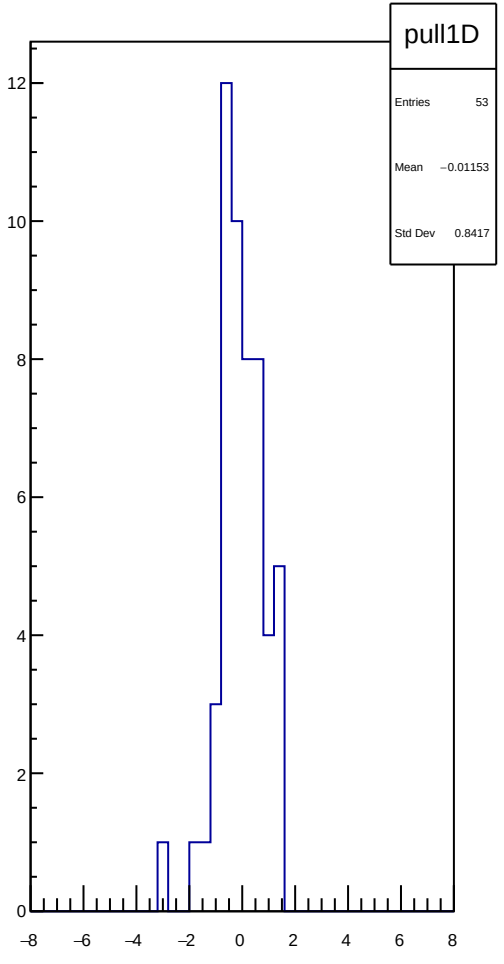

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.33 / 52
p0 0.9844 ± 0.5123
pull
Entries 53
Mean 3369
Std Dev 3352

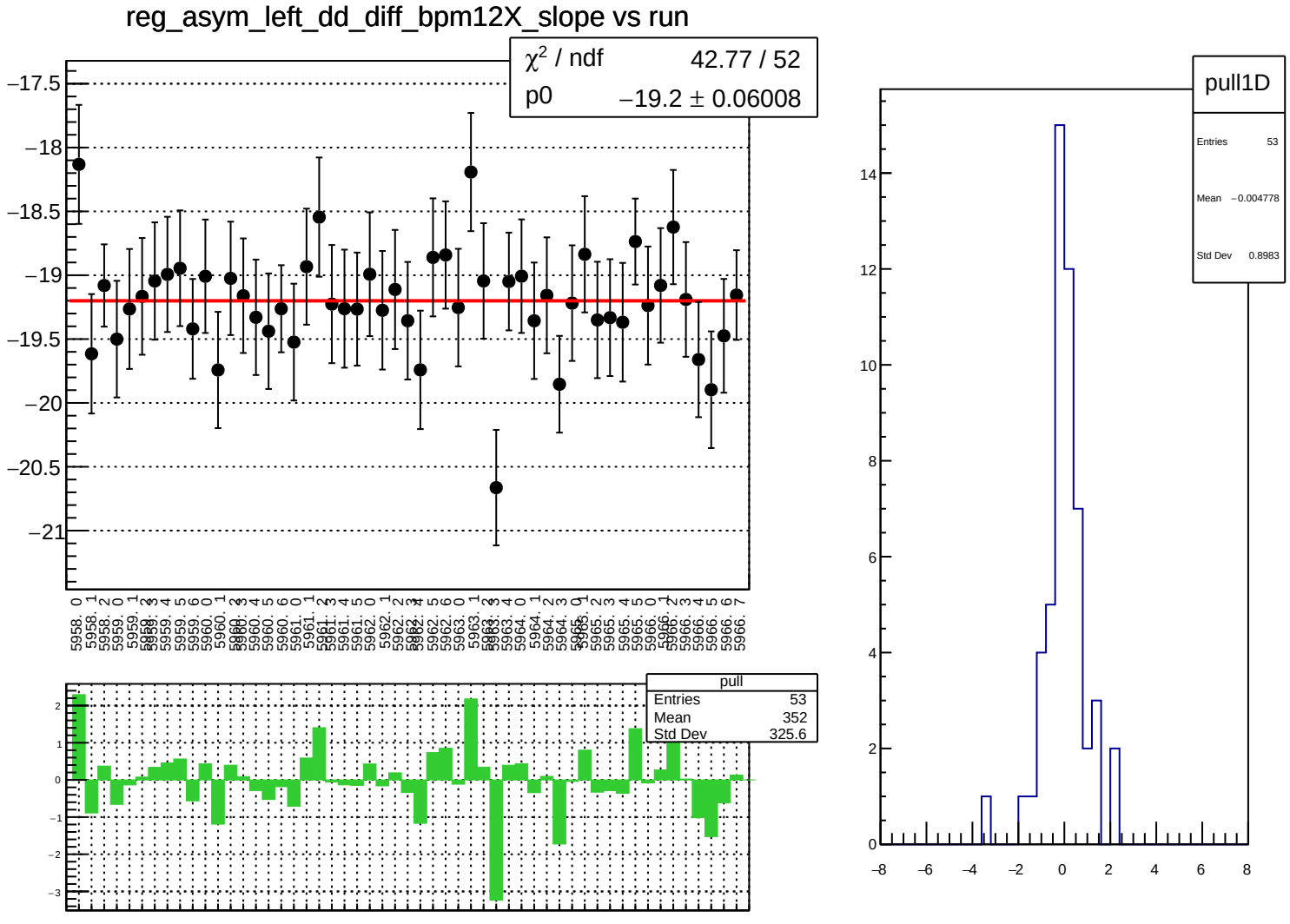

pull1D
Entries 53
Mean 0.0004838
Std Dev 0.828

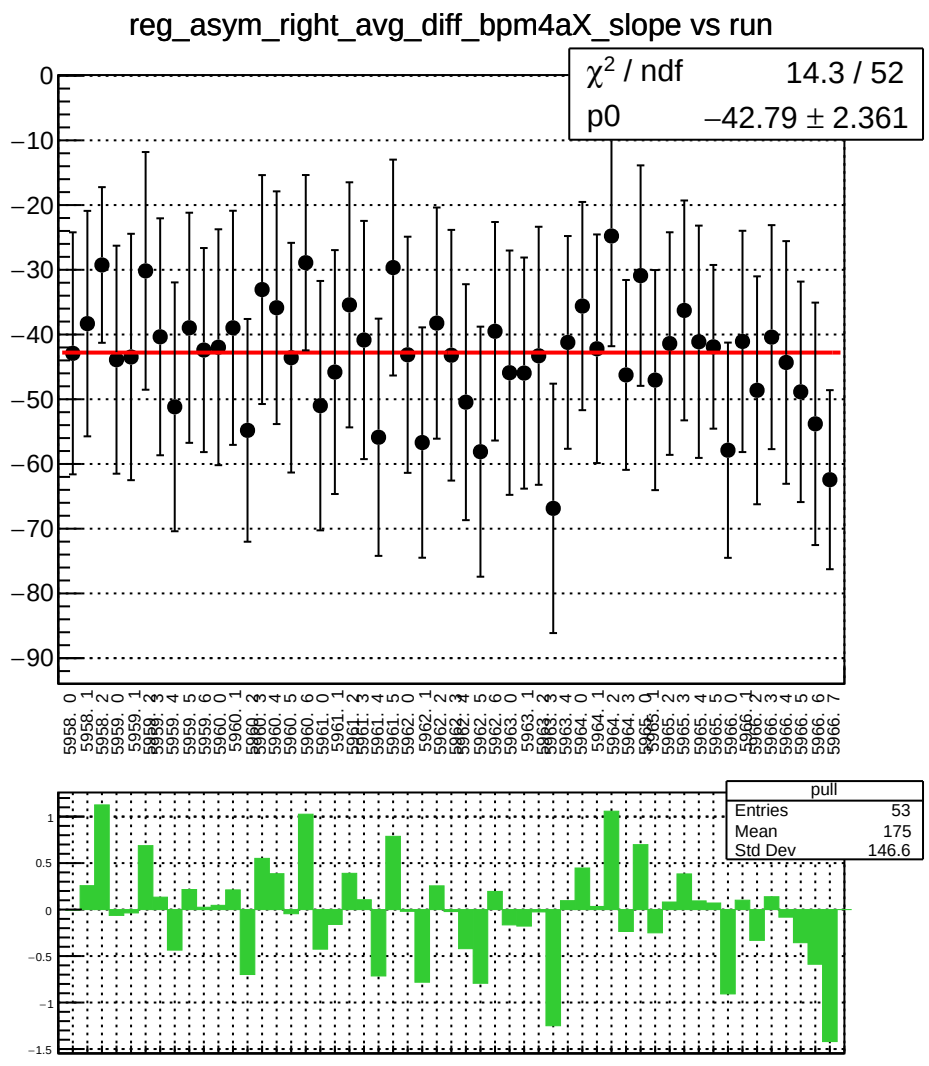

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.23 / 52
p0 25.25 ± 1.427
pull
Entries 53
Mean 2598
Std Dev 2568

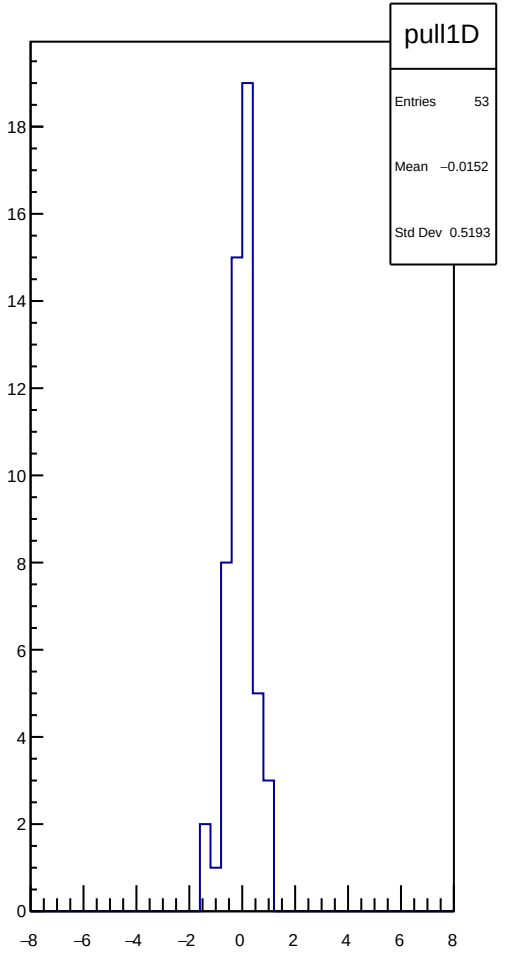

pull1D
Entries 53
Mean 0.001418
Std Dev 0.9032

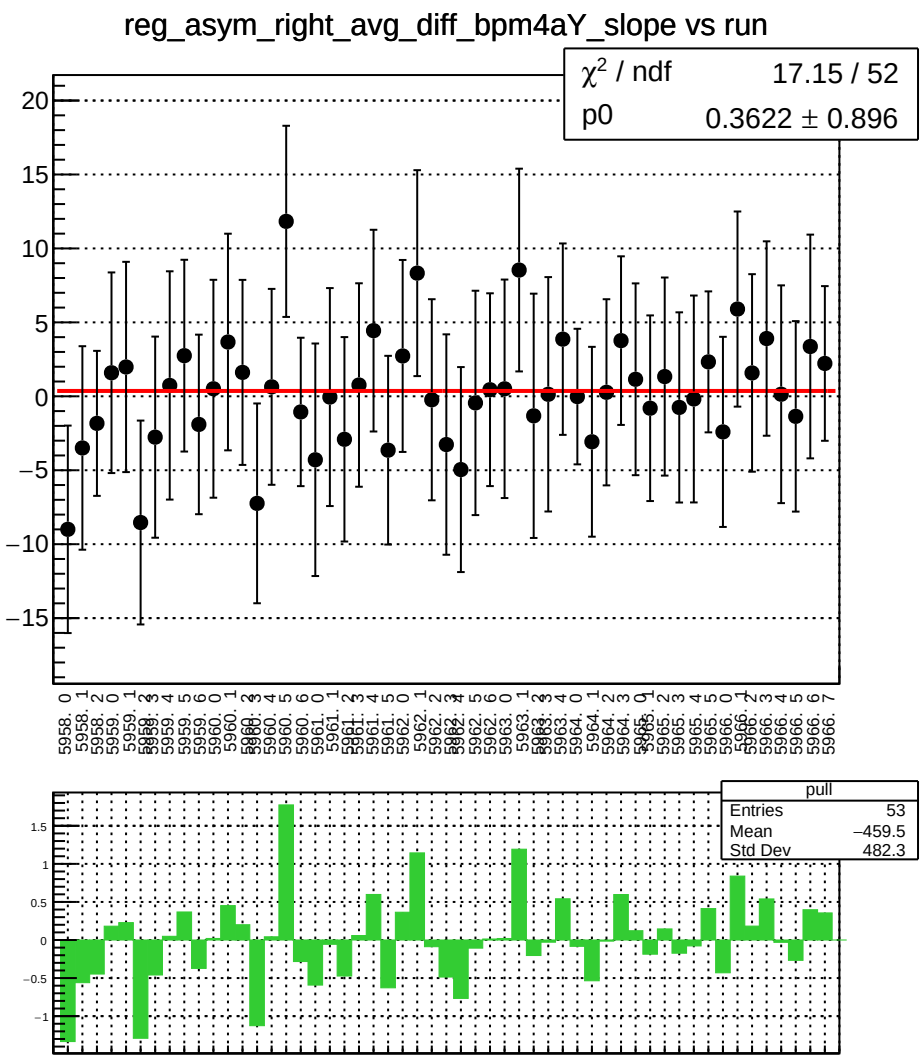

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 37.56 / 52
p0 8.846 ± 0.6594
pull
Entries 53
Mean 168
Std Dev 150.7

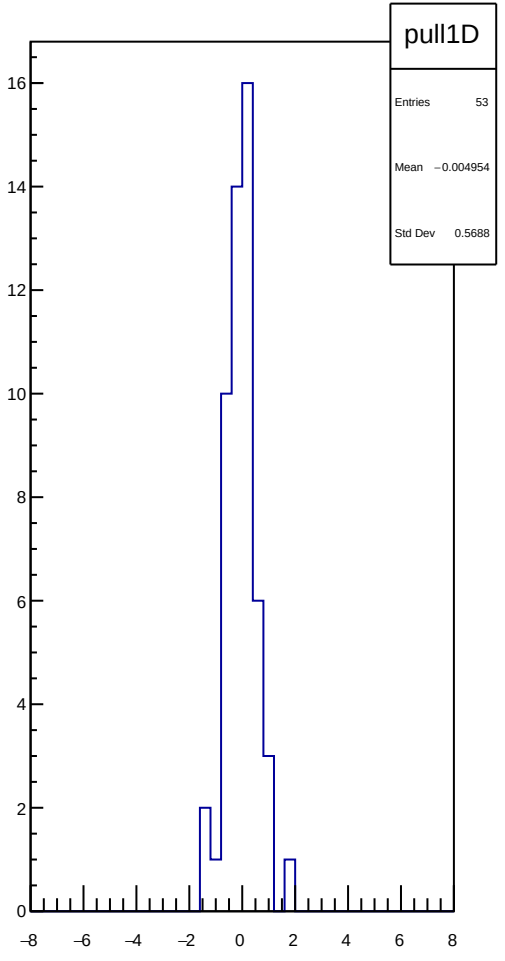

pull1D
Entries 53
Mean −0.01153
Std Dev 0.8417

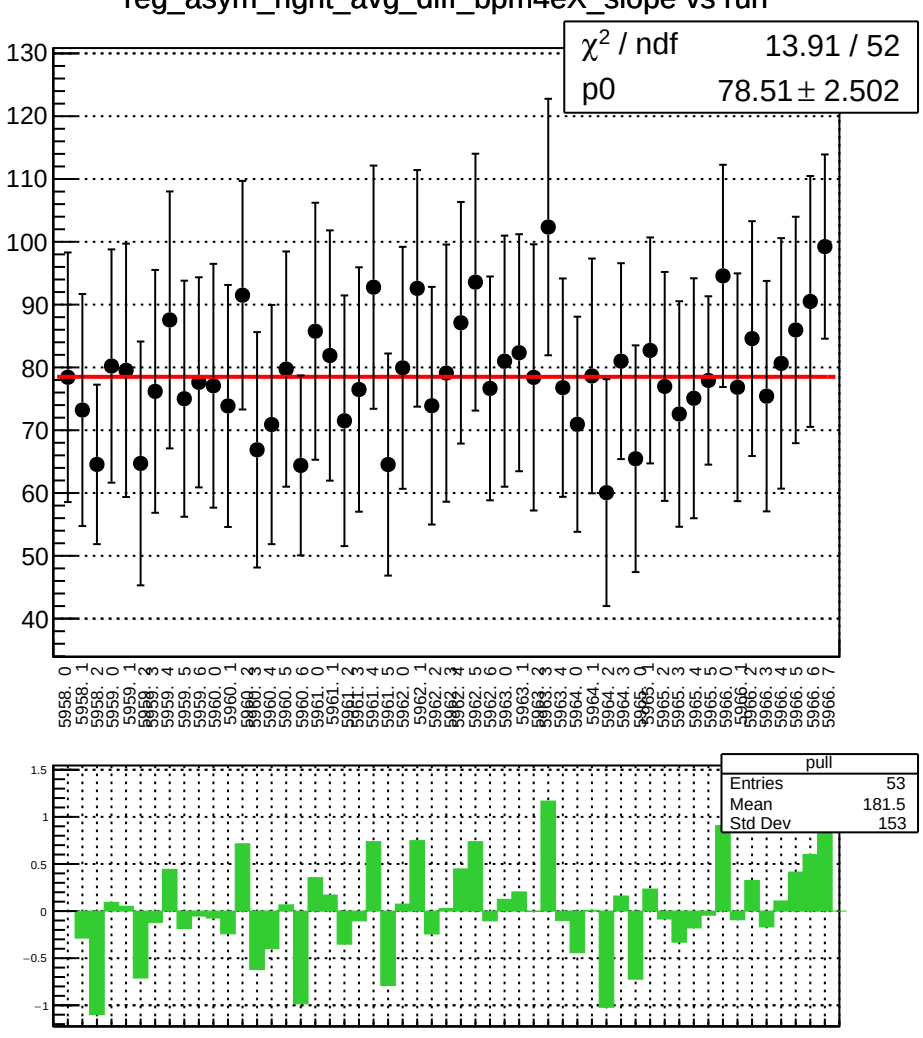

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 42.77 / 52
p0 −19.2 ± 0.06008
pull
Entries 53
Mean 352
Std Dev 325.6
pull1D
Entries 53
Mean −0.004778
Std Dev 0.8983

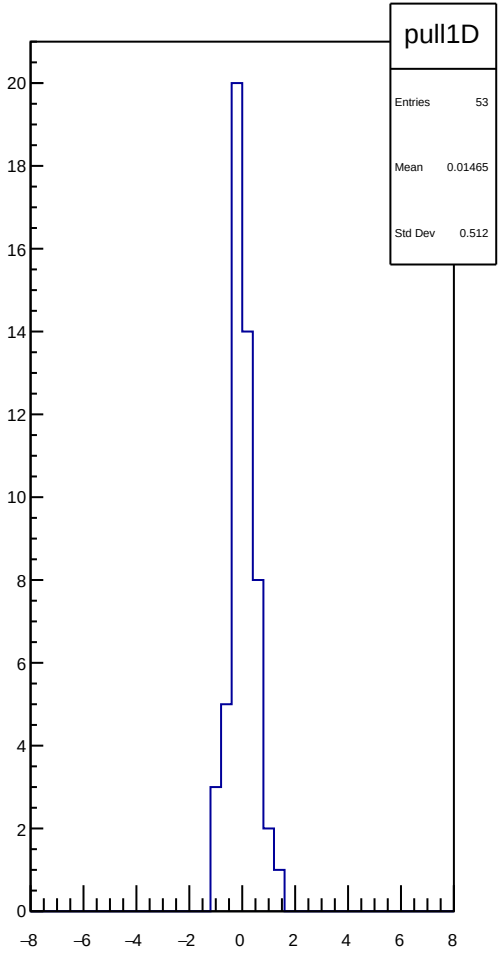

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.3 / 52
p0 −42.79 ± 2.361
pull
Entries 53
Mean 175
Std Dev 146.6

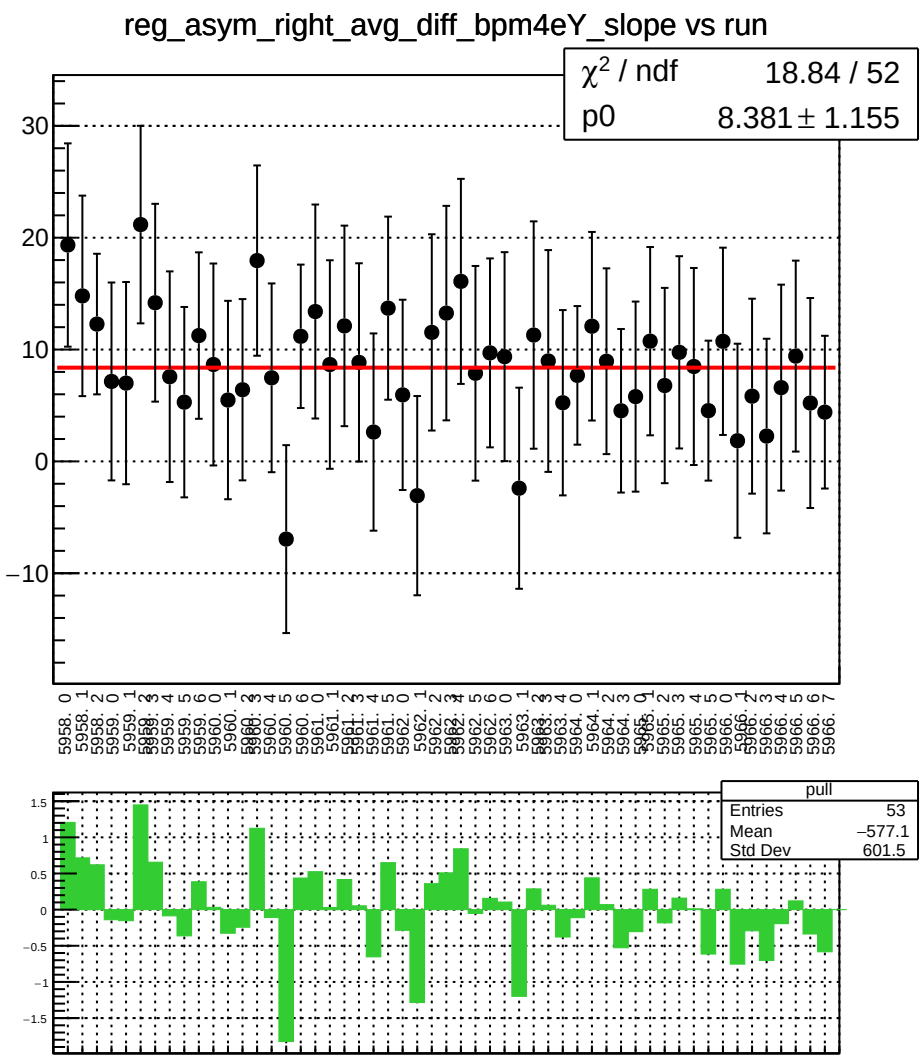

pull1D
Entries 53
Mean −0.0152
Std Dev 0.5193

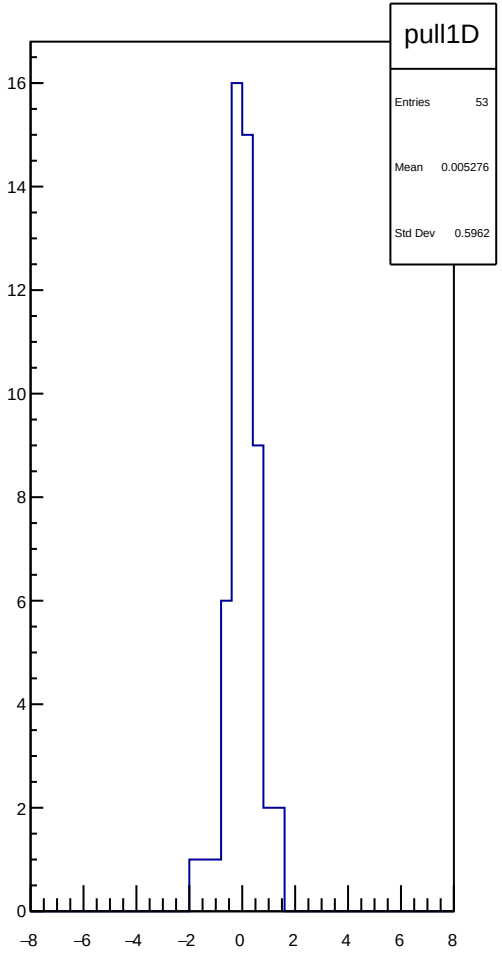

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.15 / 52
p0 0.3622 ± 0.896
pull
Entries 53
Mean −459.5
Std Dev 482.3

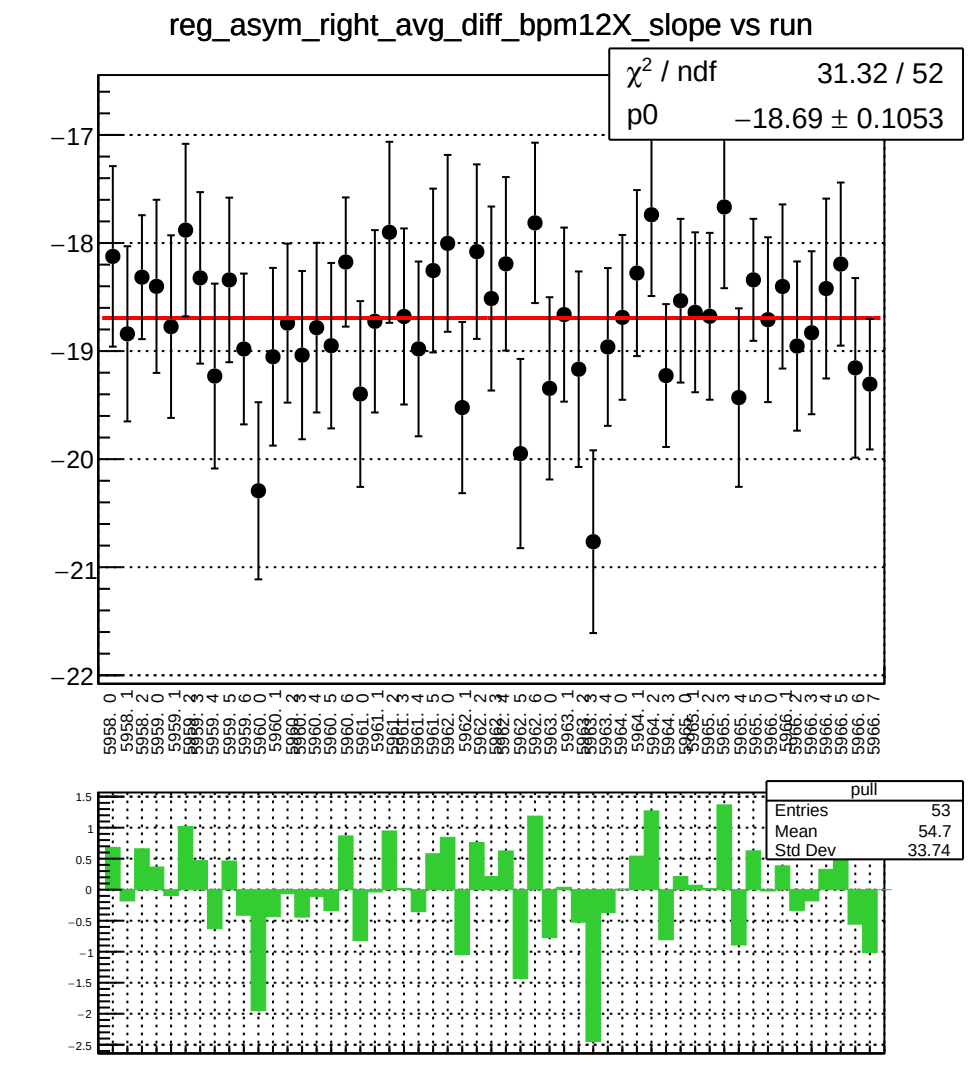

pull1D
Entries 53
Mean −0.004954
Std Dev 0.5688

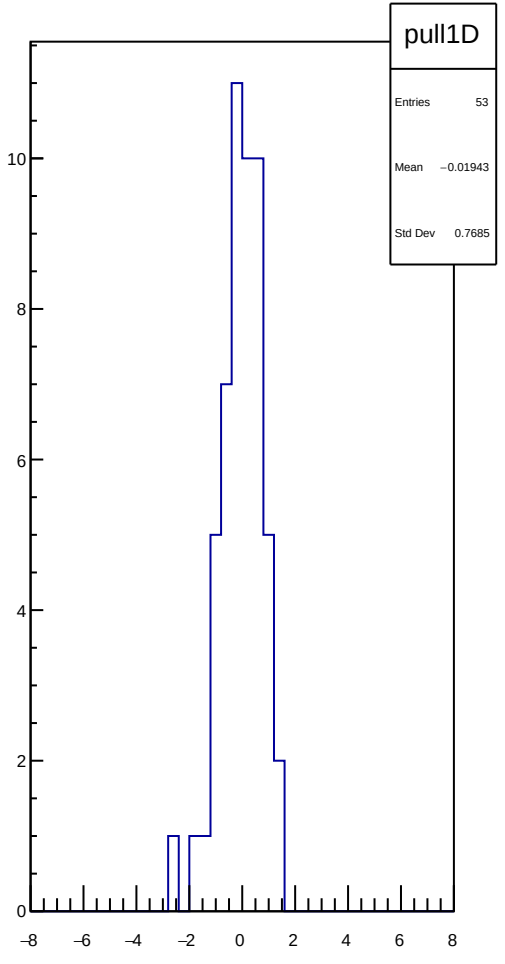

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.91 / 52
p0 78.51 ± 2.502
pull
Entries 53
Mean 181.5
Std Dev 153

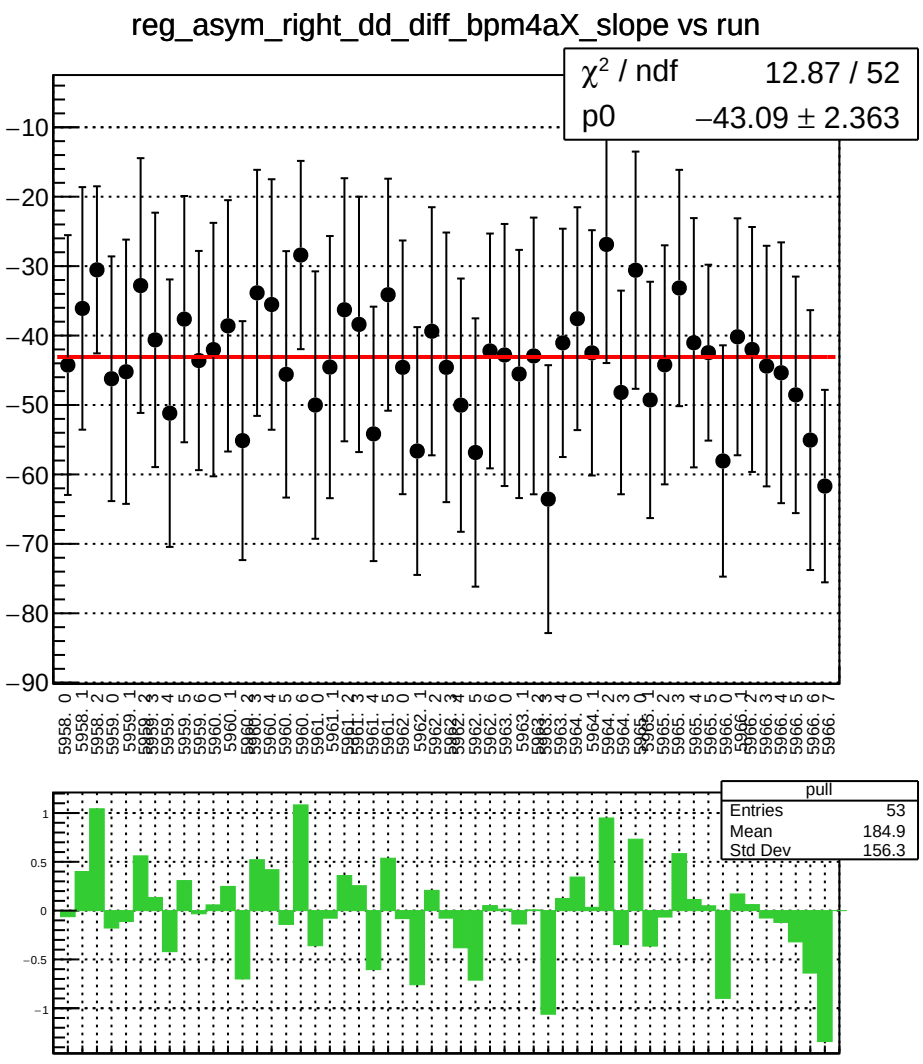

pull1D
Entries 53
Mean 0.01465
Std Dev 0.512

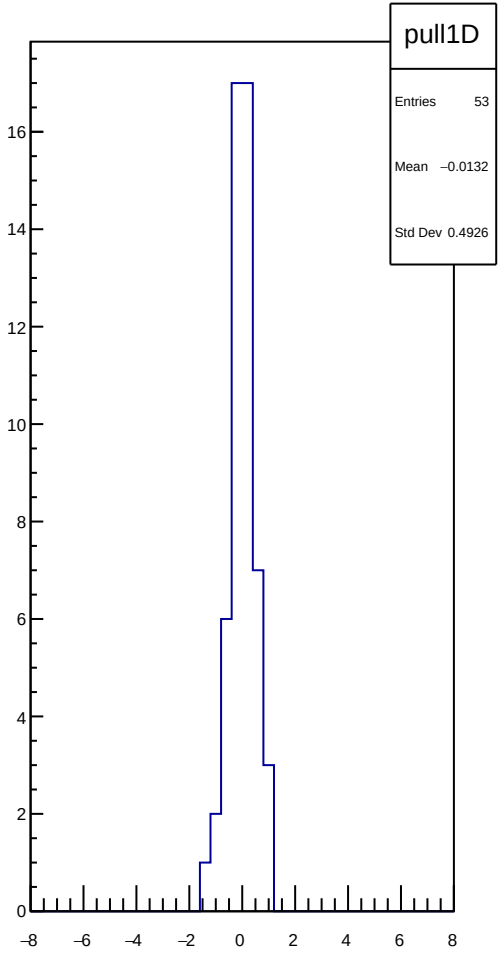

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.84 / 52
p0 8.381 ± 1.155
pull
Entries 53
Mean −577.1
Std Dev 601.5

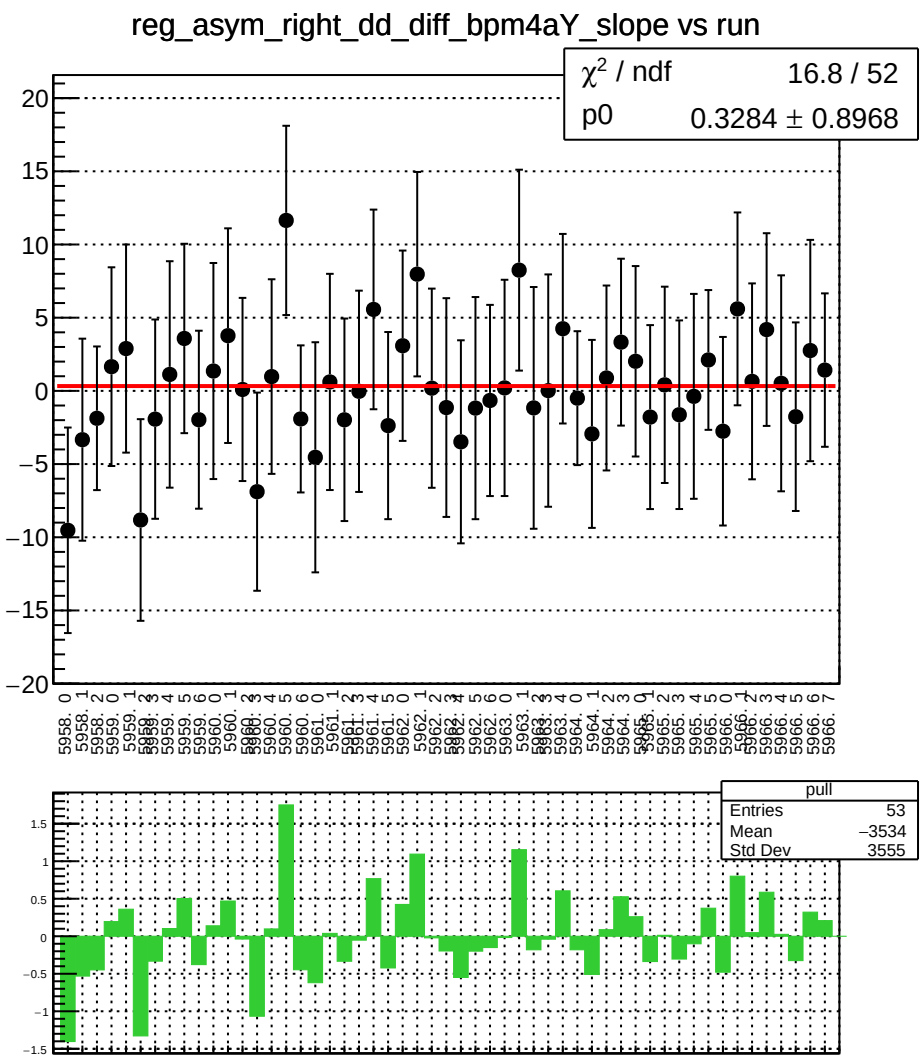

pull1D
Entries 53
Mean 0.005276
Std Dev 0.5962

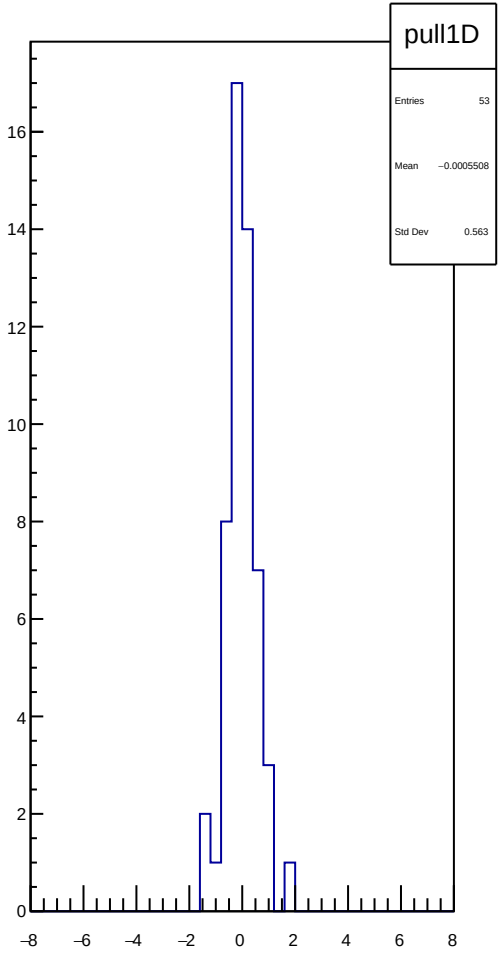

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 31.32 / 52
p0 −18.69 ± 0.1053
pull
Entries 53
Mean 54.7
Std Dev 33.74

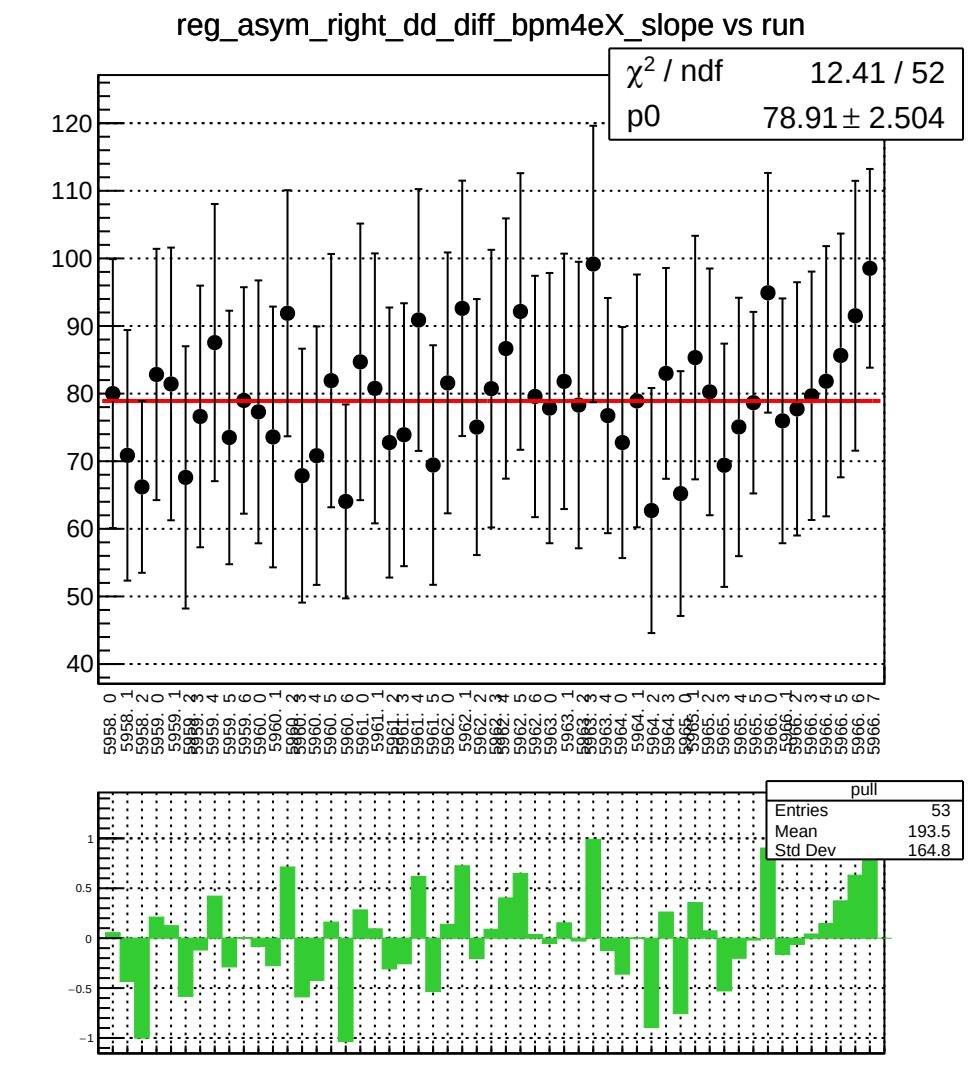

pull1D
Entries 53
Mean −0.01943
Std Dev 0.7685

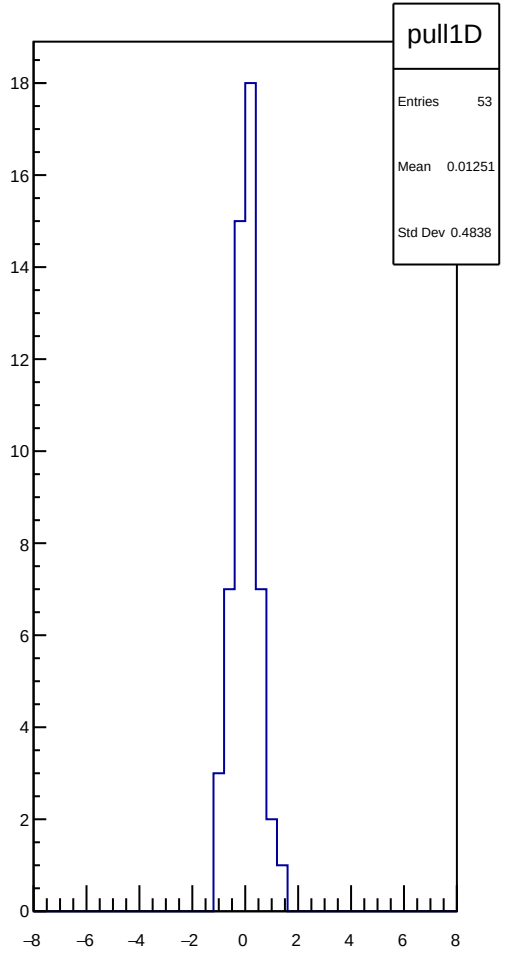

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.87 / 52
p0 −43.09 ± 2.363
pull
Entries 53
Mean 184.9
Std Dev 156.3

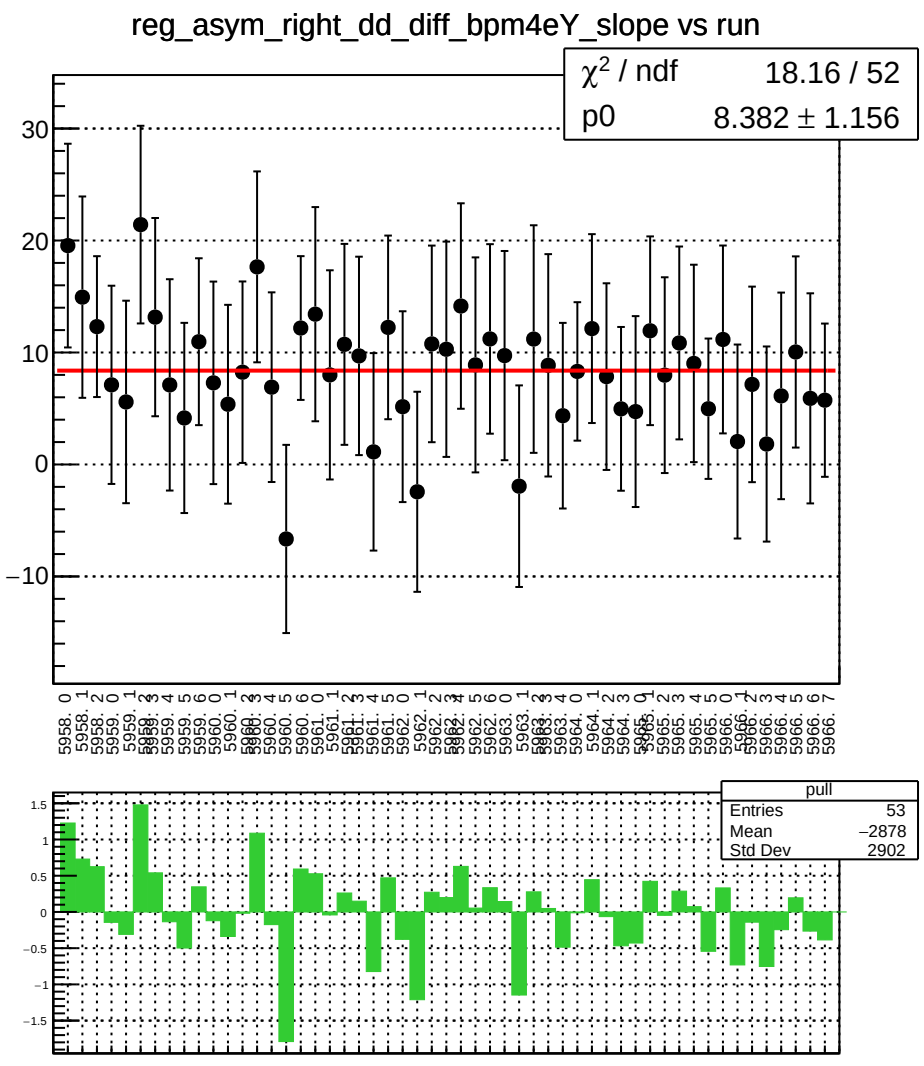

pull1D
Entries 53
Mean −0.0132
Std Dev 0.4926

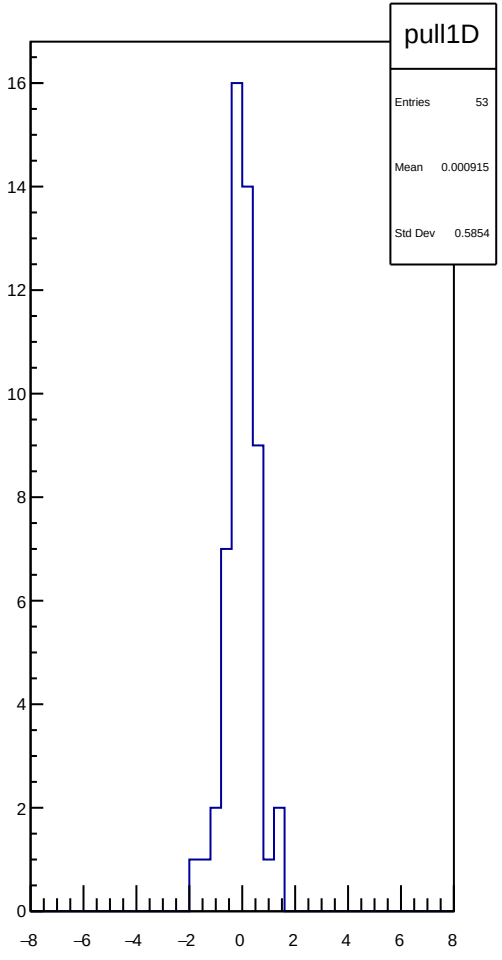

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.8 / 52
p0 0.3284 ± 0.8968
pull
Entries 53
Mean −3534
Std Dev 3555

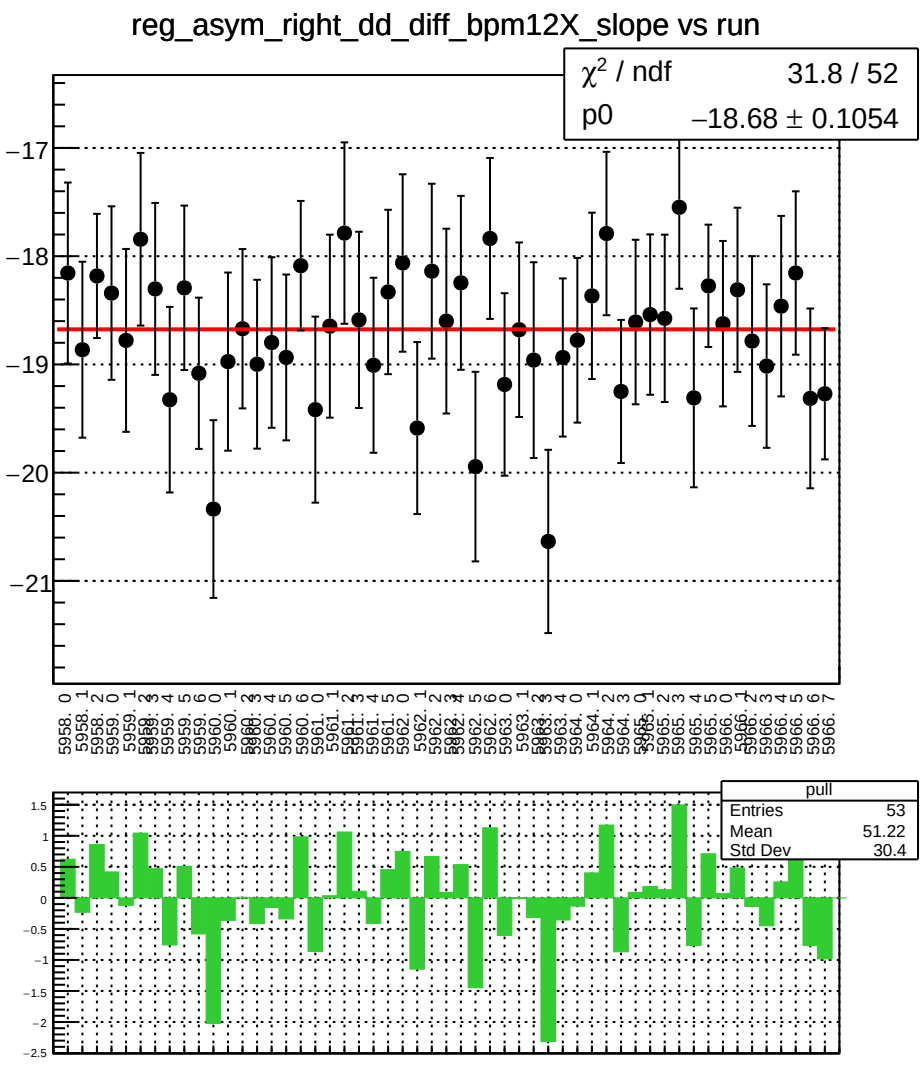

pull1D
Entries 53
Mean −0.0005508
Std Dev 0.563

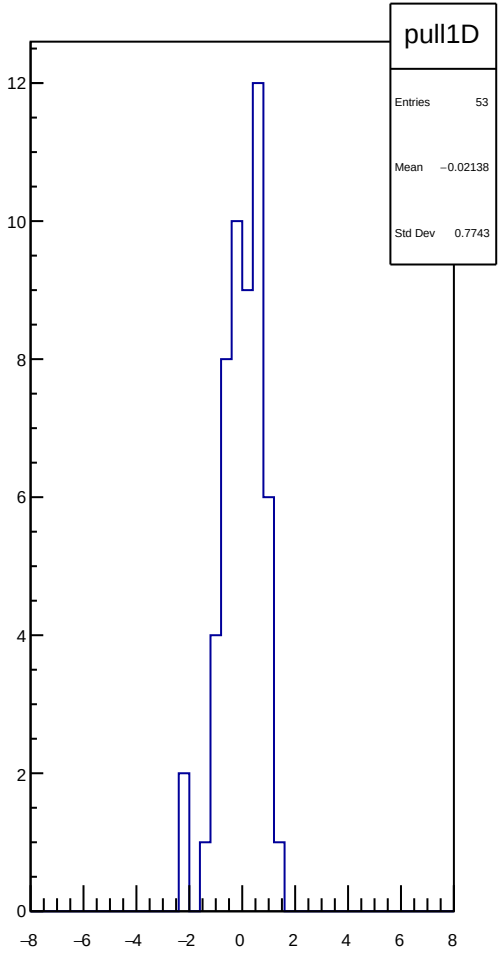

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.41 / 52
p0 78.91 ± 2.504
pull
Entries 53
Mean 193.5
Std Dev 164.8

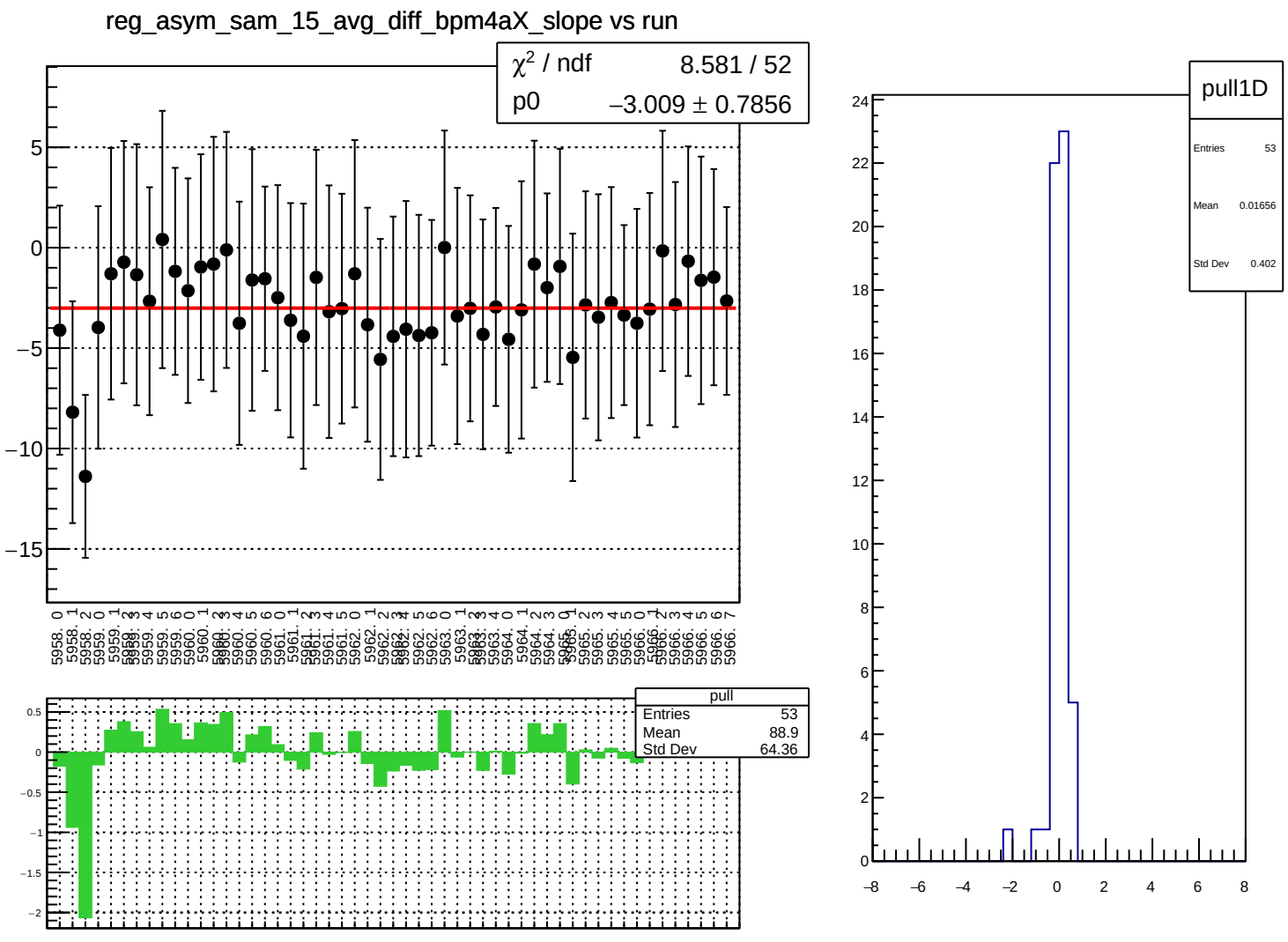

pull1D
Entries 53
Mean 0.01251
Std Dev 0.4838

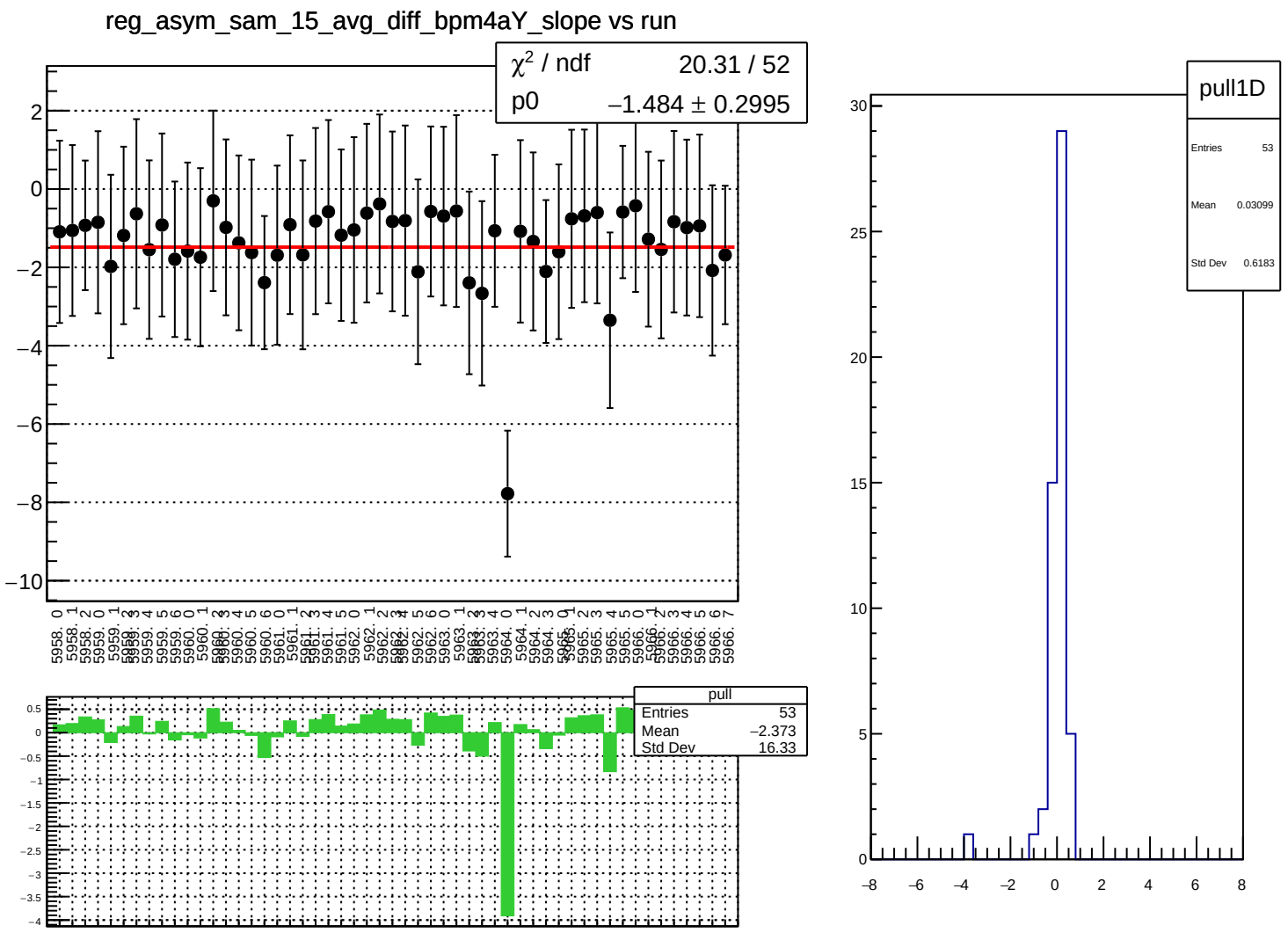

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.16 / 52
p0 8.382 ± 1.156
pull
Entries 53
Mean −2878
Std Dev 2902

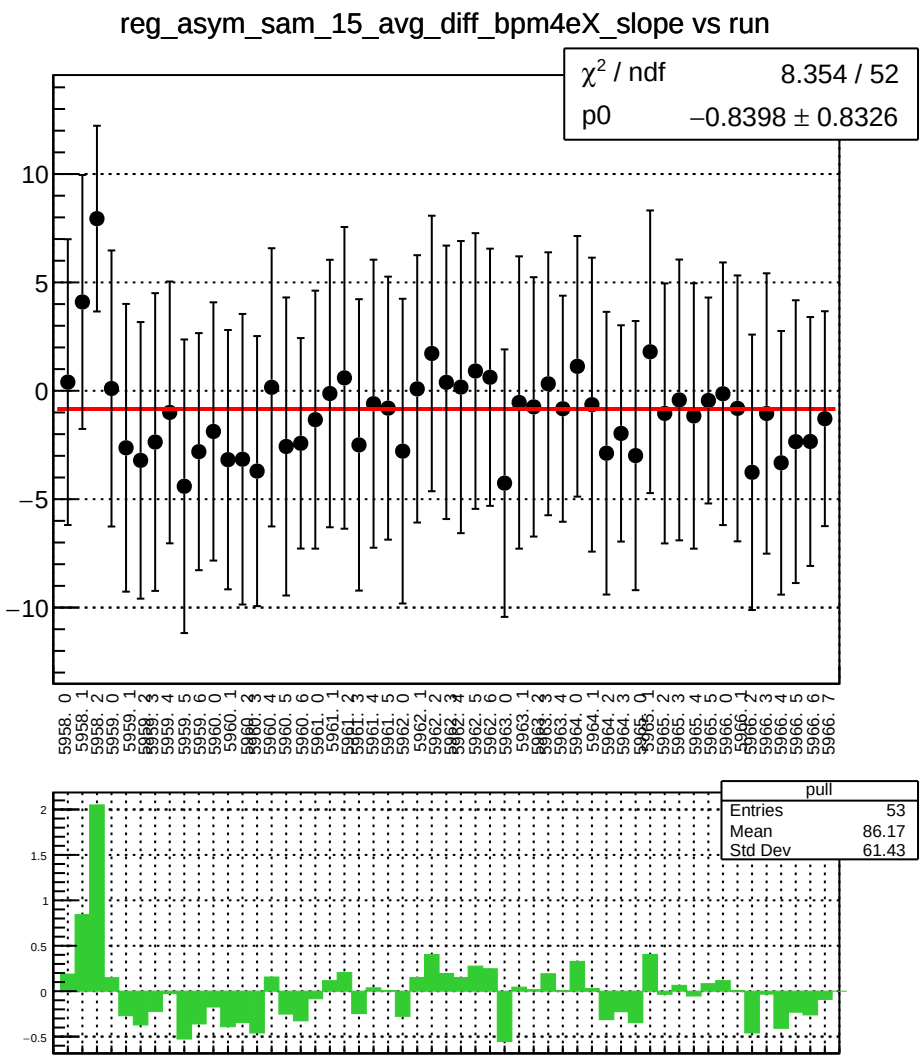

pull1D
Entries 53
Mean 0.000915
Std Dev 0.5854

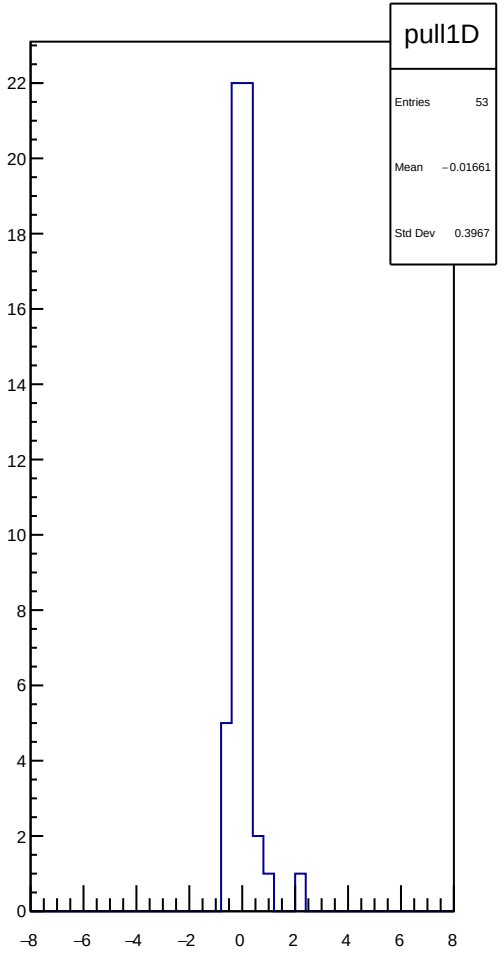

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 31.8 / 52
p0 −18.68 ± 0.1054
pull
Entries 53
Mean 51.22
Std Dev 30.4

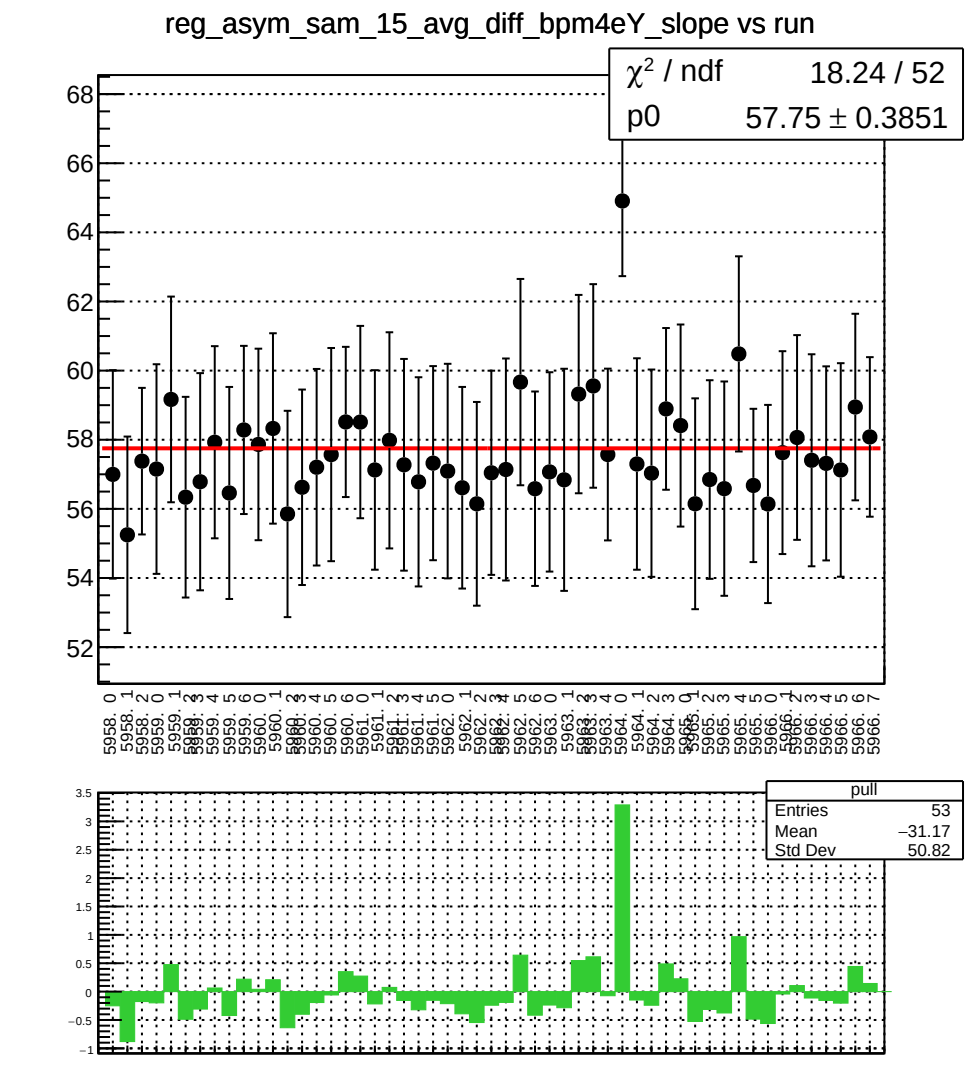

pull1D
Entries 53
Mean −0.02138
Std Dev 0.7743

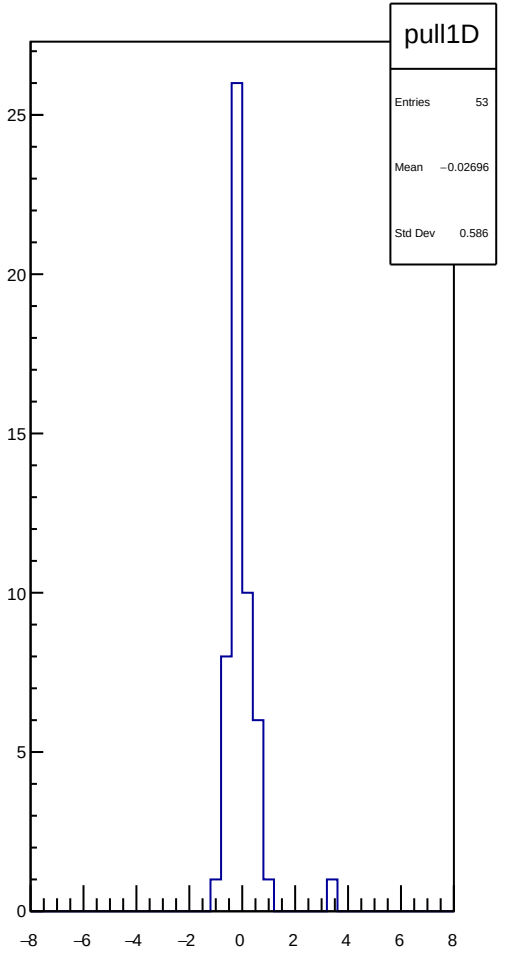

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.581 / 52
p0 −3.009 ± 0.7856
pull
Entries 53
Mean 88.9
Std Dev 64.36
pull1D
Entries 53
Mean 0.01656
Std Dev 0.402

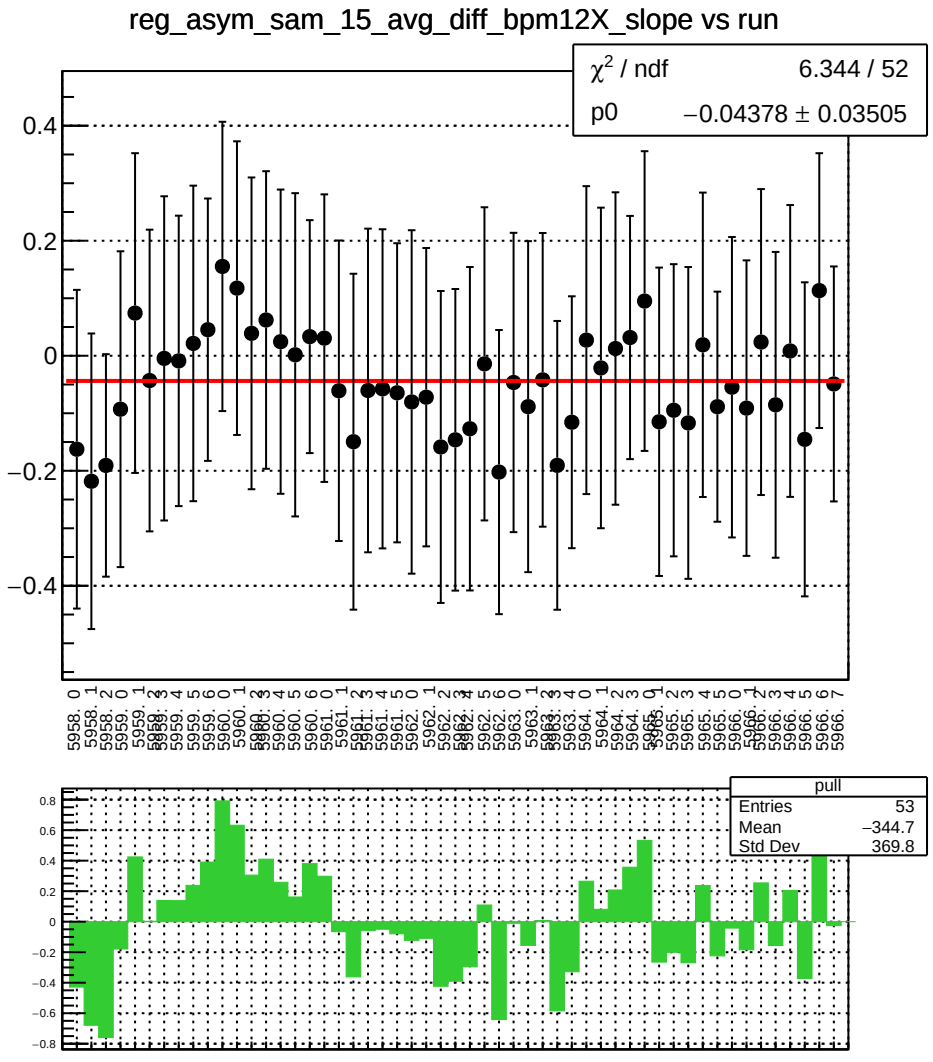

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.31 / 52
p0 −1.484 ± 0.2995
pull
Entries 53
Mean −2.373
Std Dev 16.33
pull1D
Entries 53
Mean 0.03099
Std Dev 0.6183

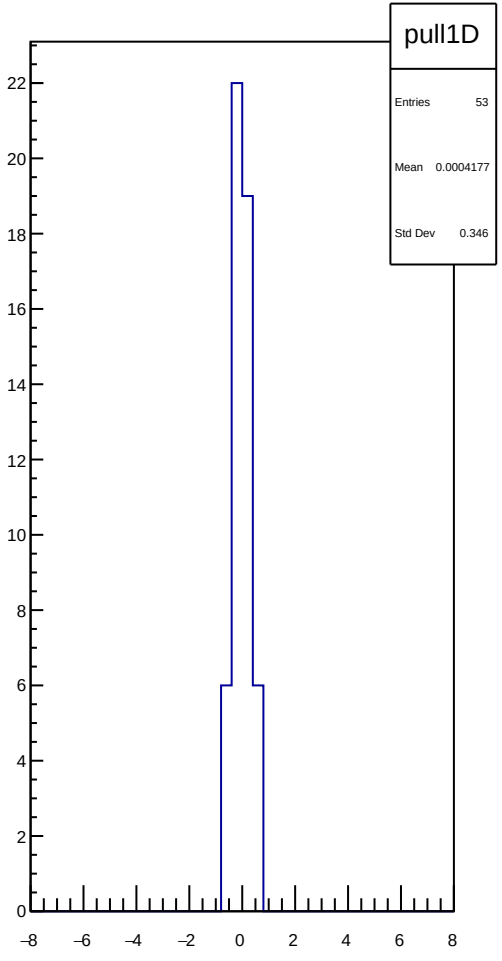

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.354 / 52
p0 −0.8398 ± 0.8326
pull
Entries 53
Mean 86.17
Std Dev 61.43

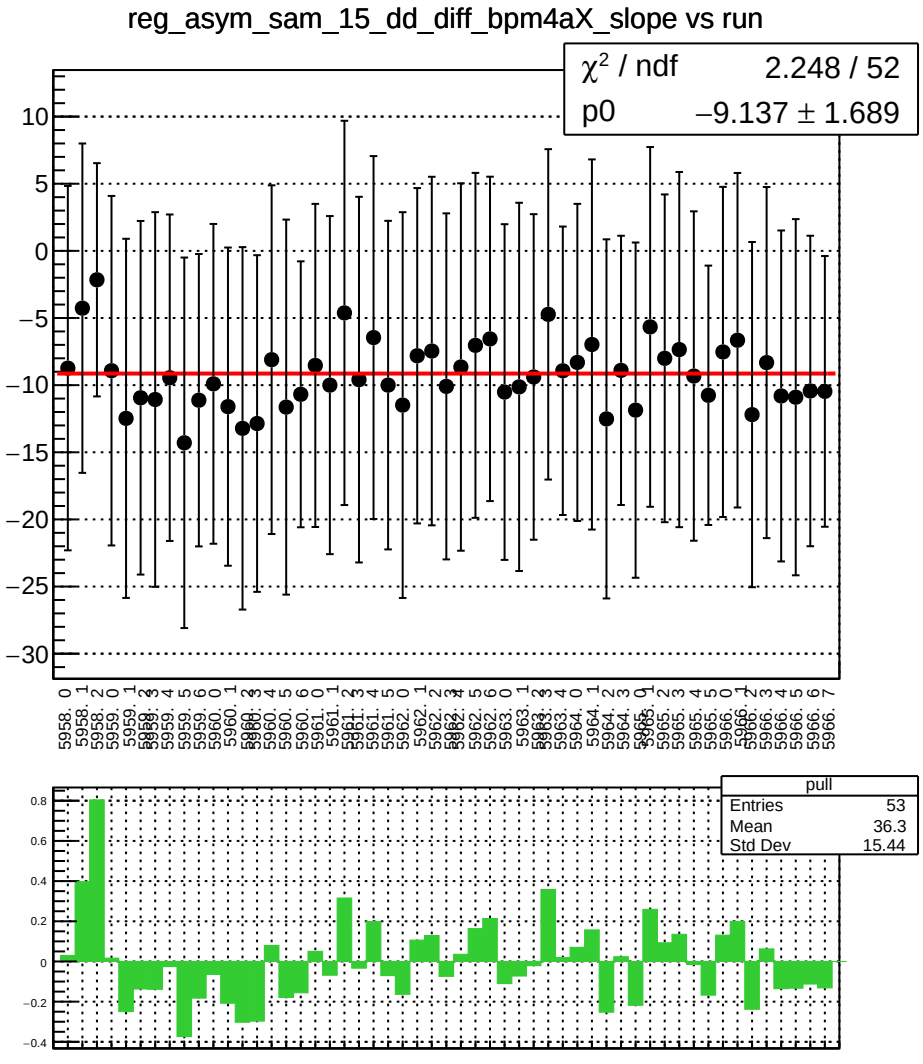

pull1D
Entries 53
Mean −0.01661
Std Dev 0.3967

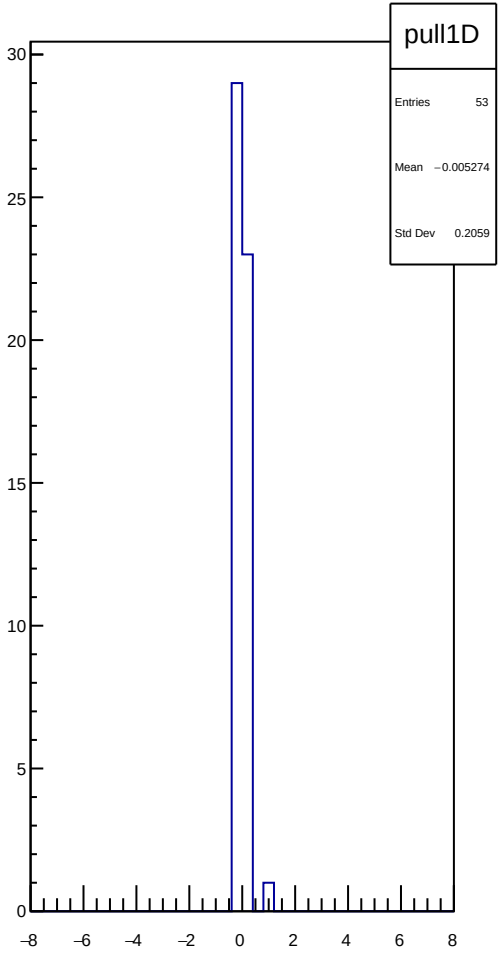

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.24 / 52
p0 57.75 ± 0.3851
pull
Entries 53
Mean −31.17
Std Dev 50.82

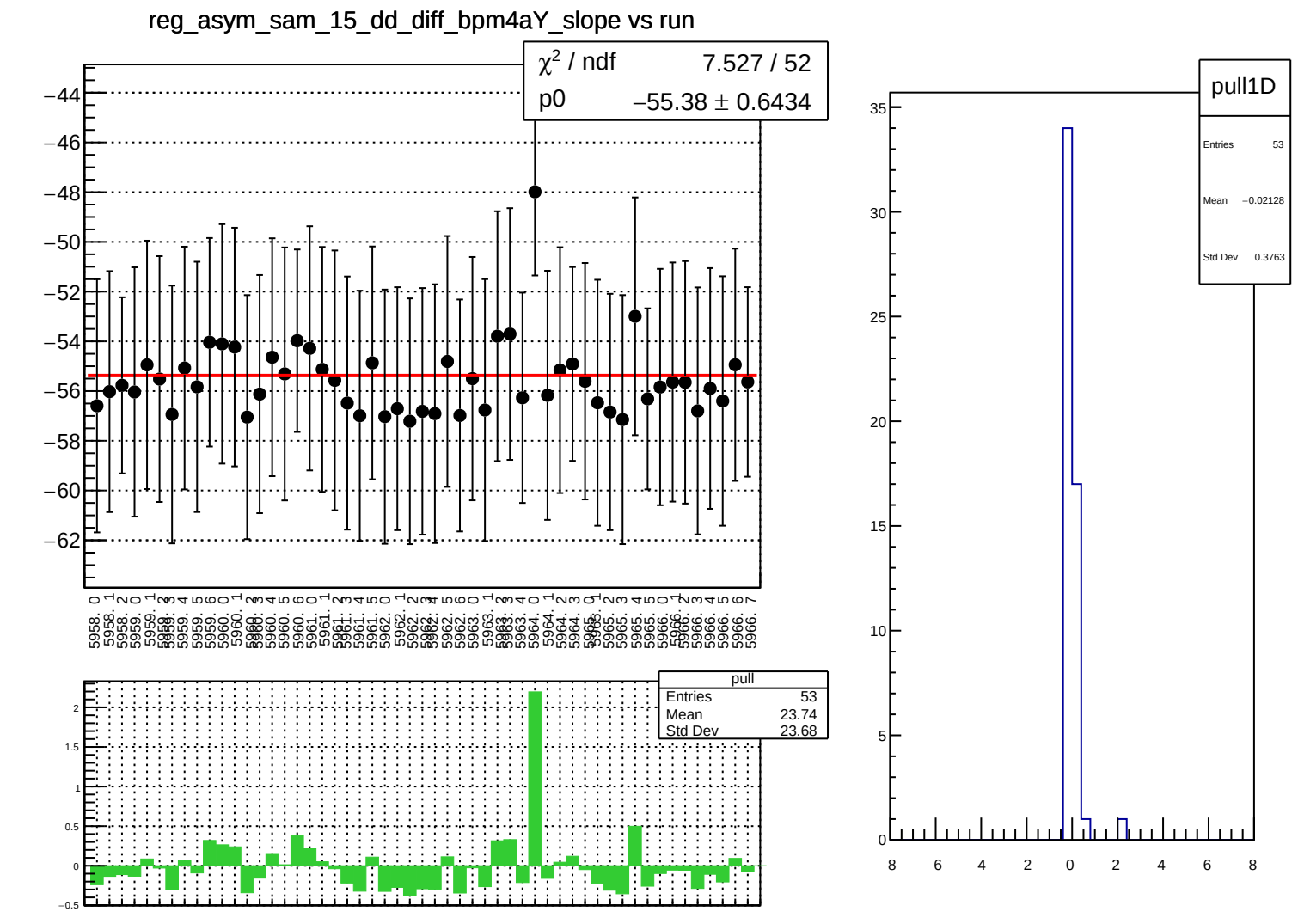

pull1D
Entries 53
Mean −0.02696
Std Dev 0.586

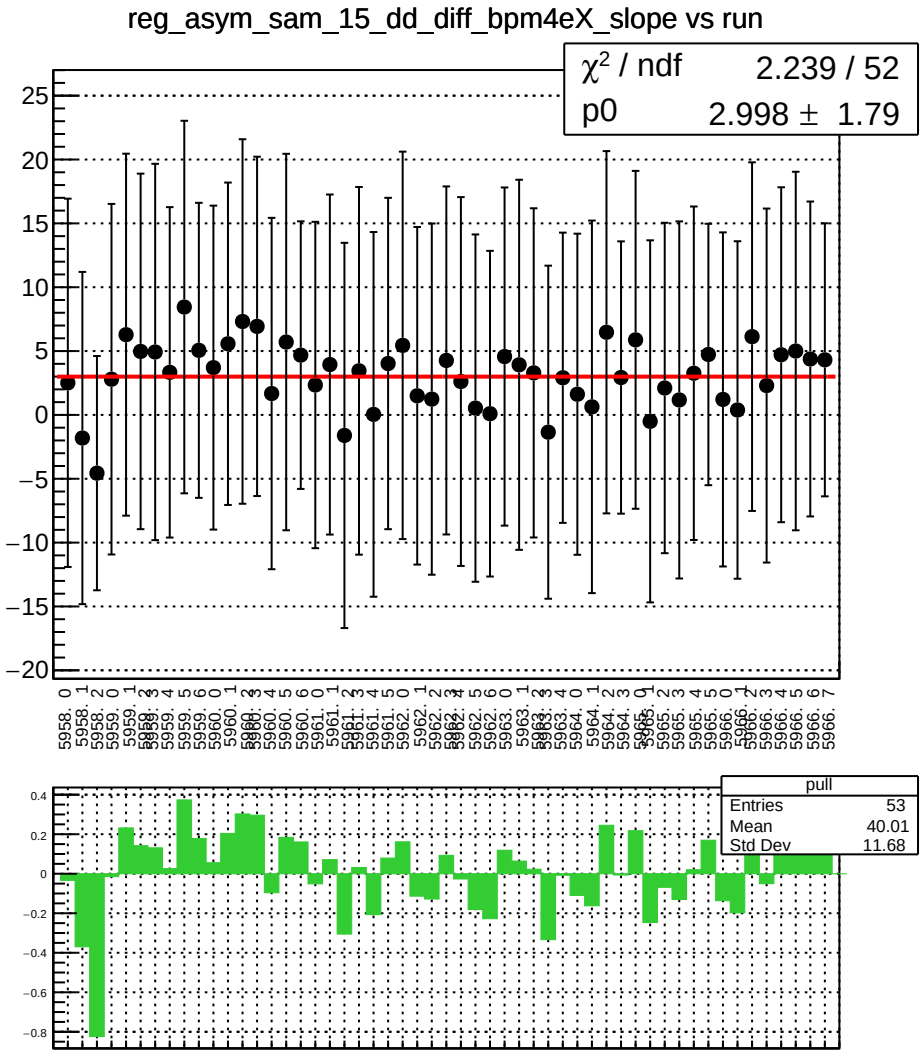

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 6.344 / 52
p0 −0.04378 ± 0.03505
pull
Entries 53
Mean −344.7
Std Dev 369.8

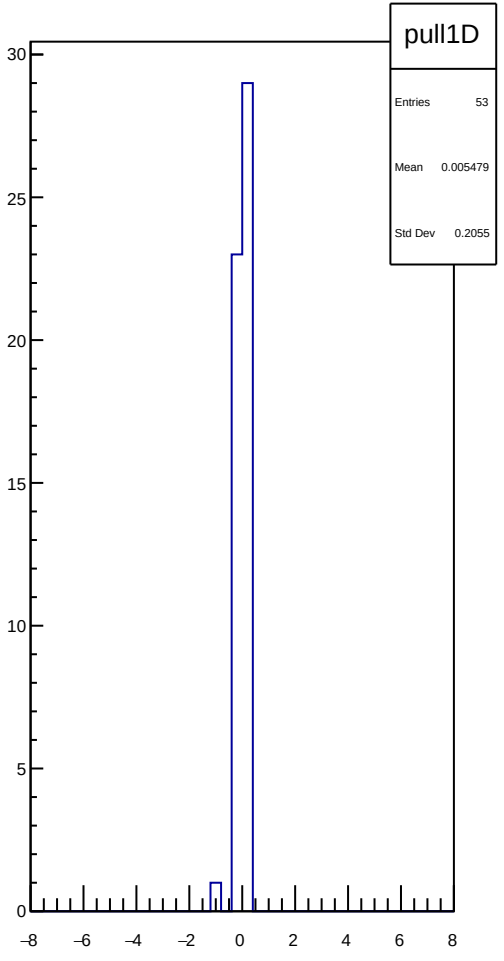

pull1D
Entries 53
Mean 0.0004177
Std Dev 0.346

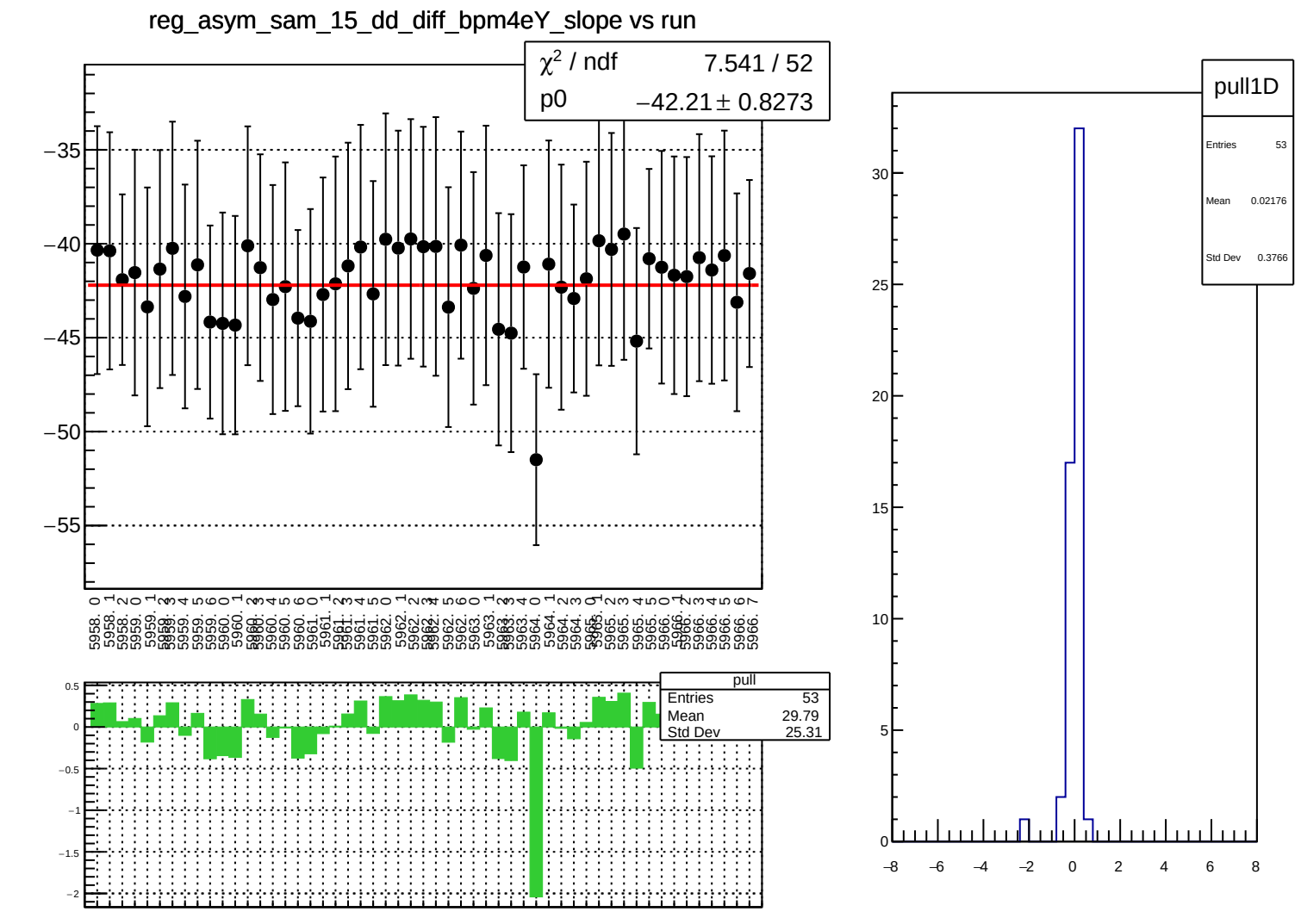

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.248 / 52
p0 −9.137 ± 1.689
pull
Entries 53
Mean 36.3
Std Dev 15.44

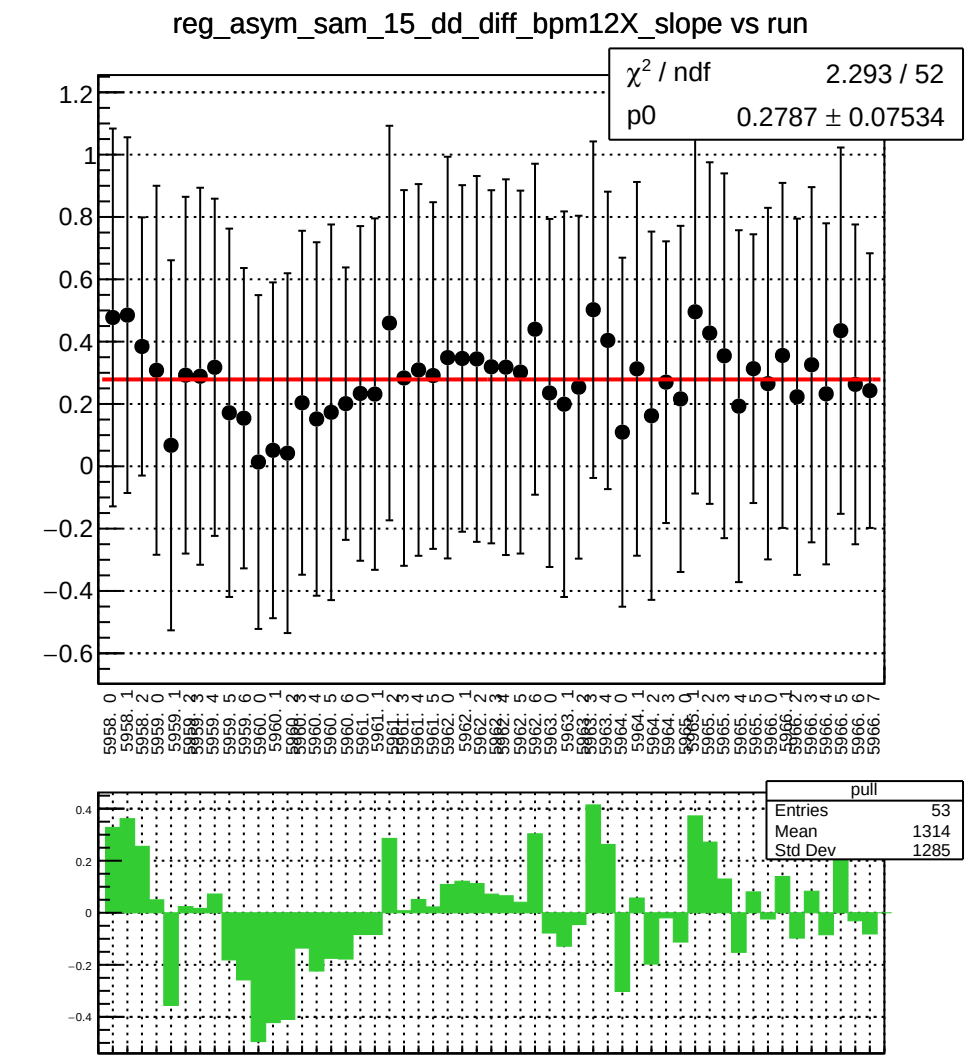

pull1D
Entries 53
Mean −0.005274
Std Dev 0.2059

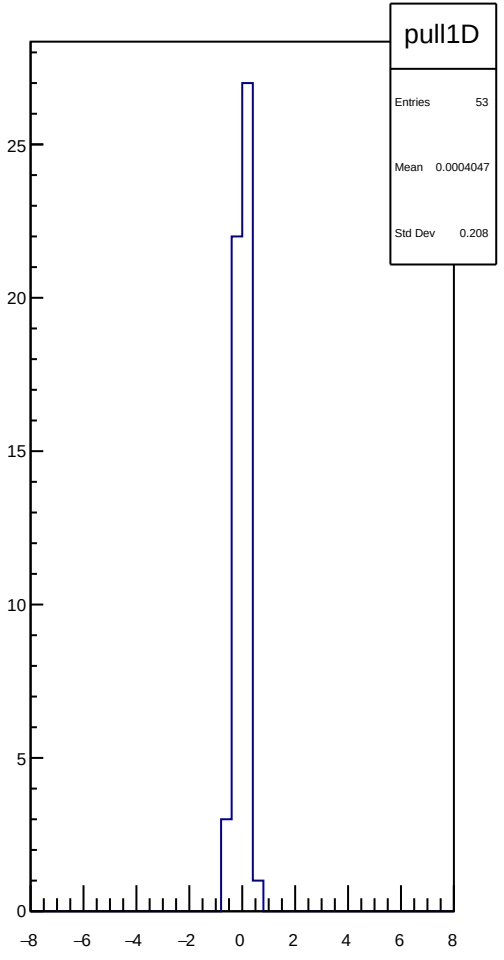

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.527 / 52
p0 −55.38 ± 0.6434
pull
Entries 53
Mean 23.74
Std Dev 23.68
pull1D
Entries 53
Mean −0.02128
Std Dev 0.3763

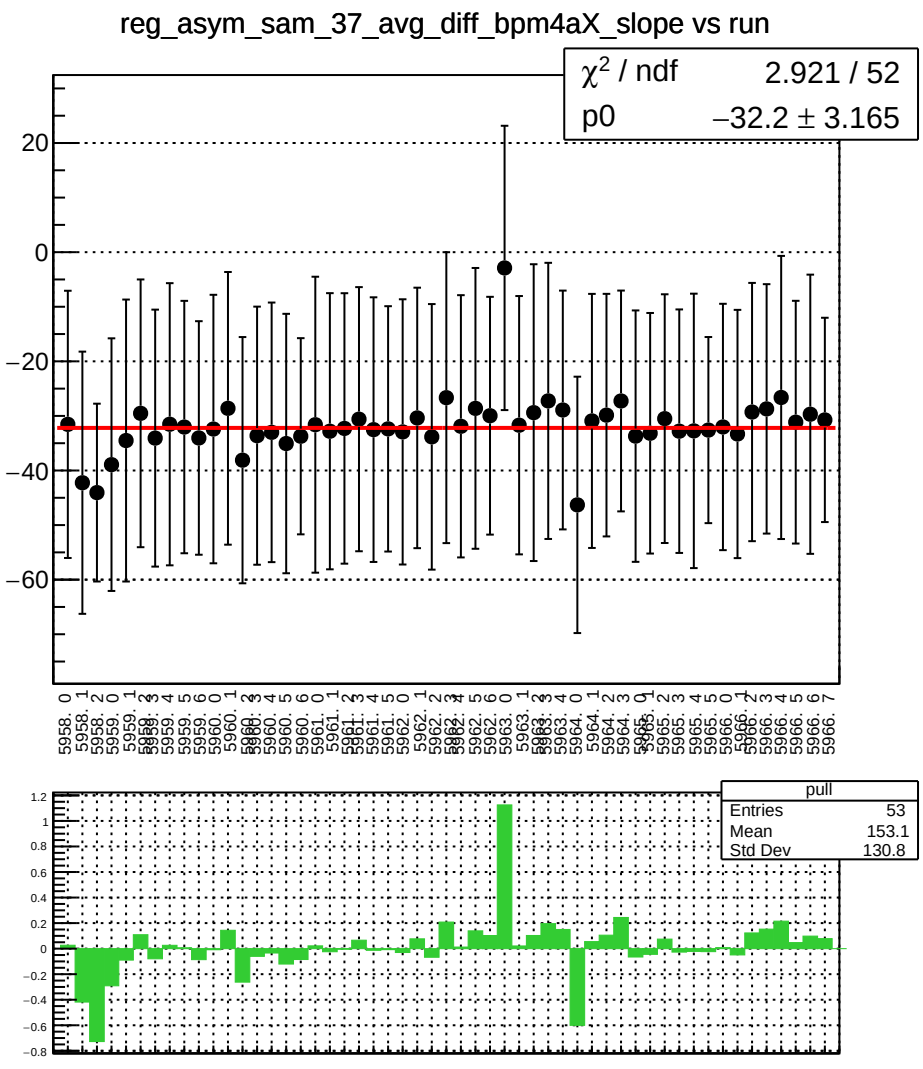

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.239 / 52
p0 2.998 ± 1.79
pull
Entries 53
Mean 40.01
Std Dev 11.68

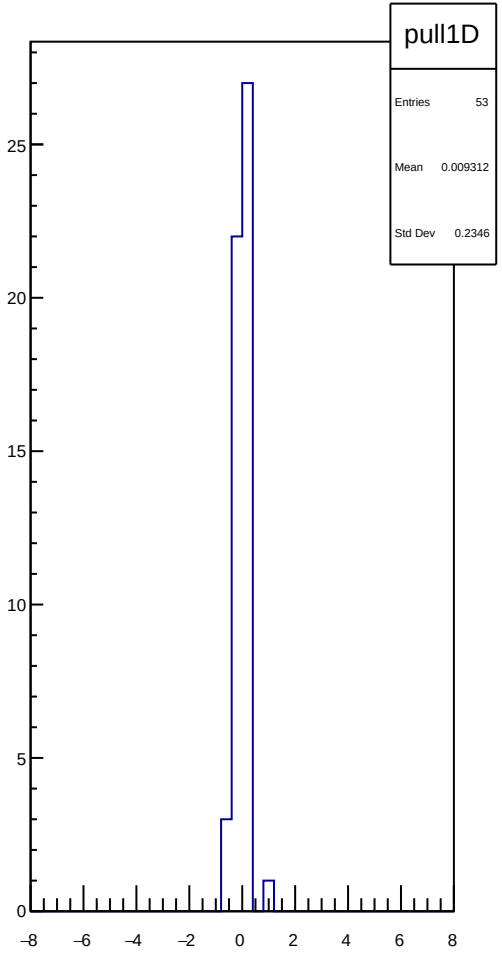

pull1D
Entries 53
Mean 0.005479
Std Dev 0.2055

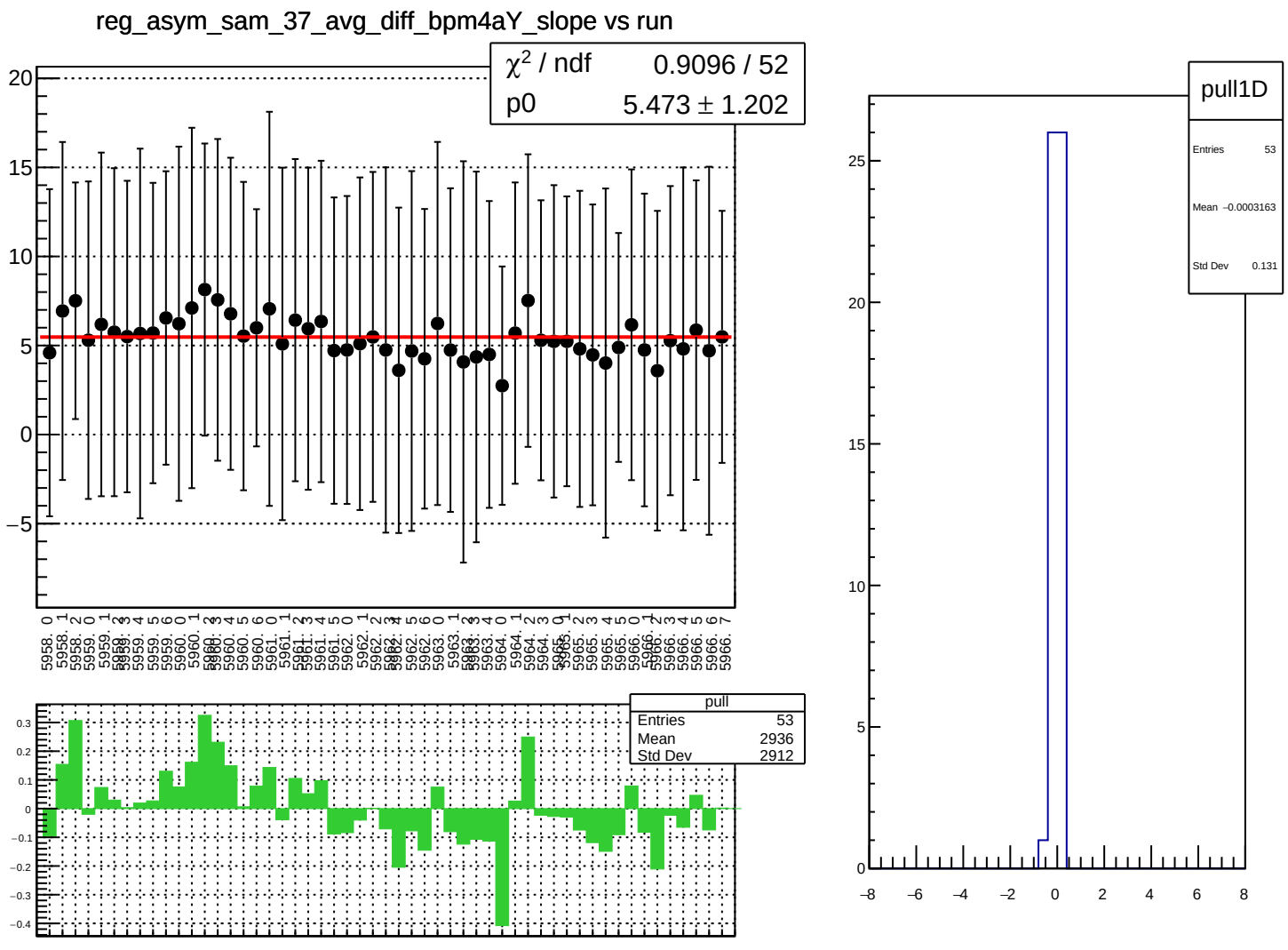

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.541 / 52
p0 −42.21 ± 0.8273
−35
−40
−45
−50
−55
pull
Entries 53
Mean 29.79
Std Dev 25.31
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 53
Mean 0.02176
Std Dev 0.3766
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

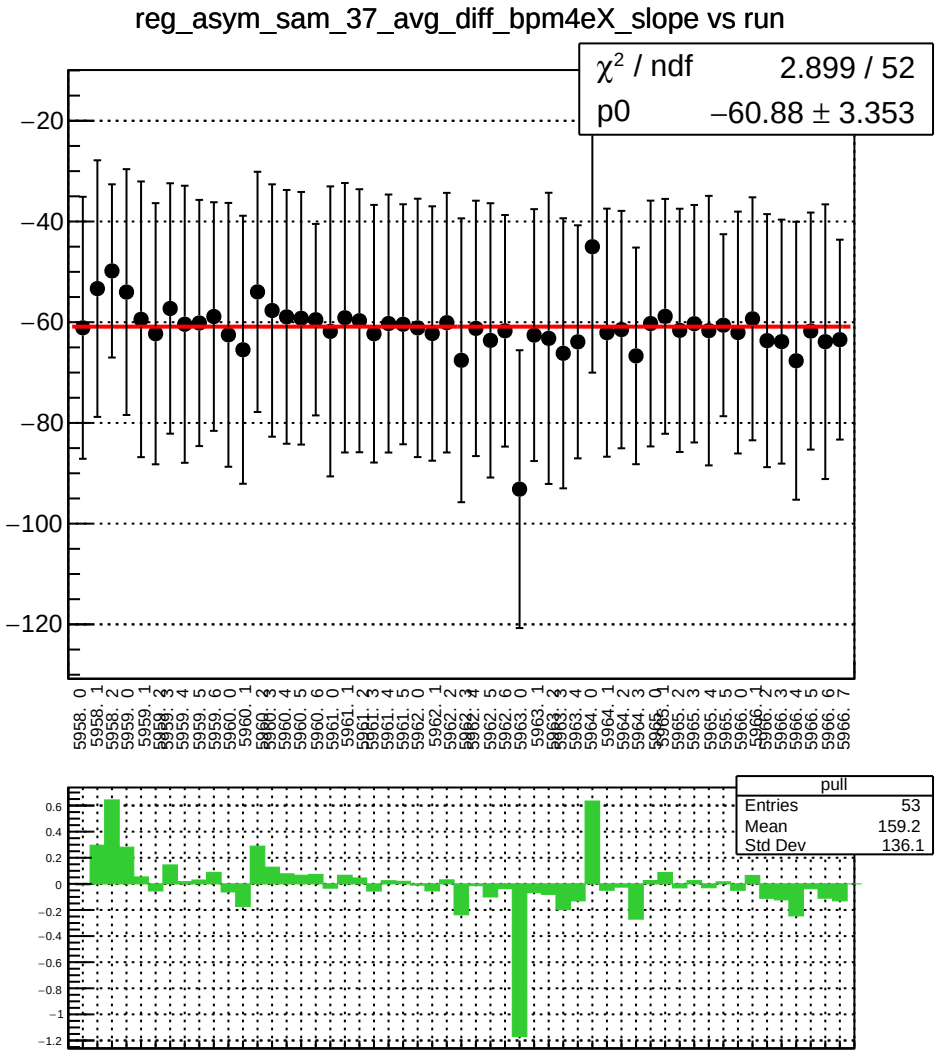

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 2.293 / 52
p0 0.2787 ± 0.07534
pull
Entries 53
Mean 1314
Std Dev 1285

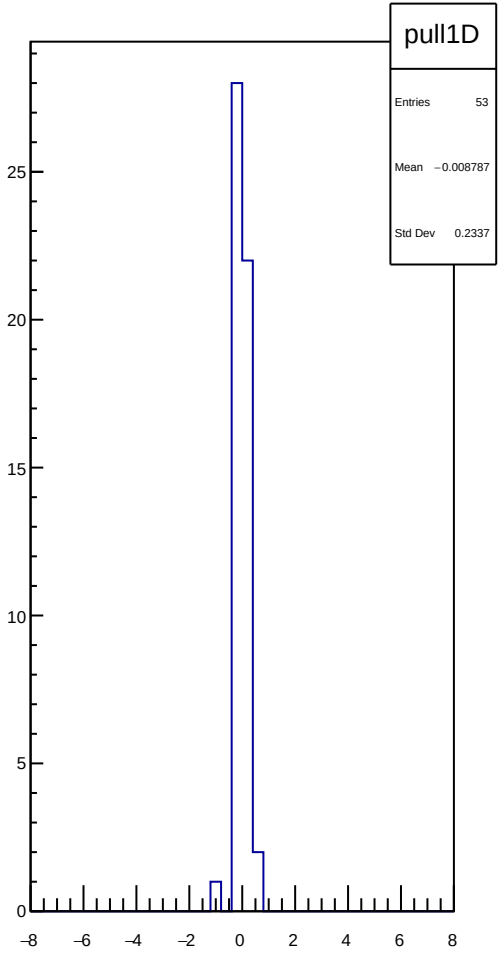

pull1D
Entries 53
Mean 0.0004047
Std Dev 0.208

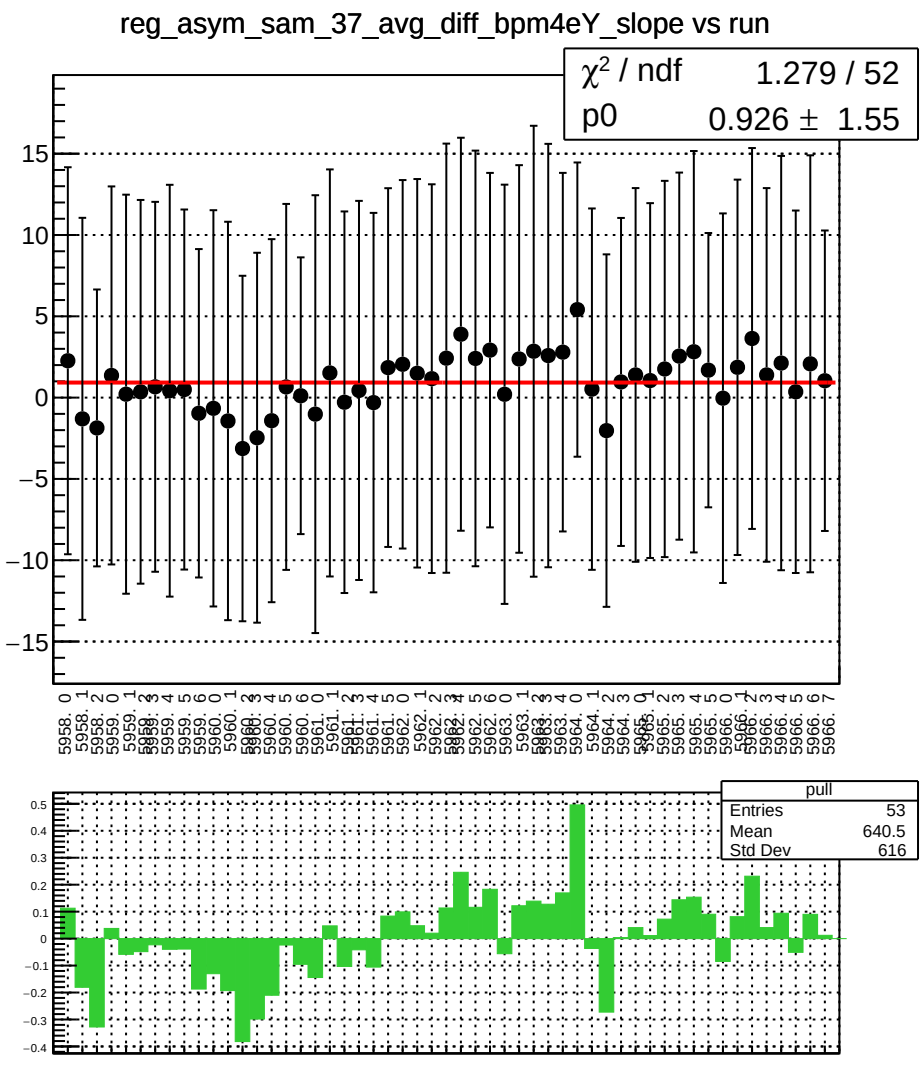

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.921 / 52
p0 −32.2 ± 3.165
pull
Entries 53
Mean 153.1
Std Dev 130.8

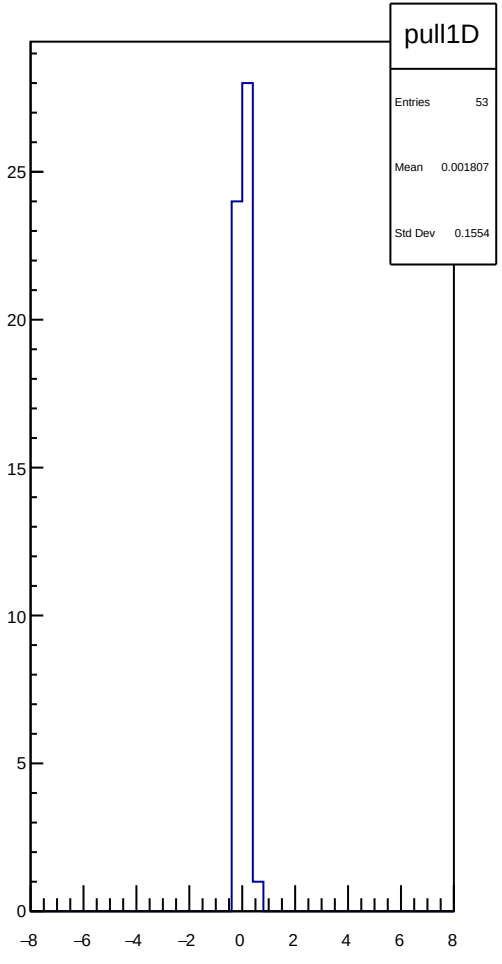

pull1D
Entries 53
Mean 0.009312
Std Dev 0.2346

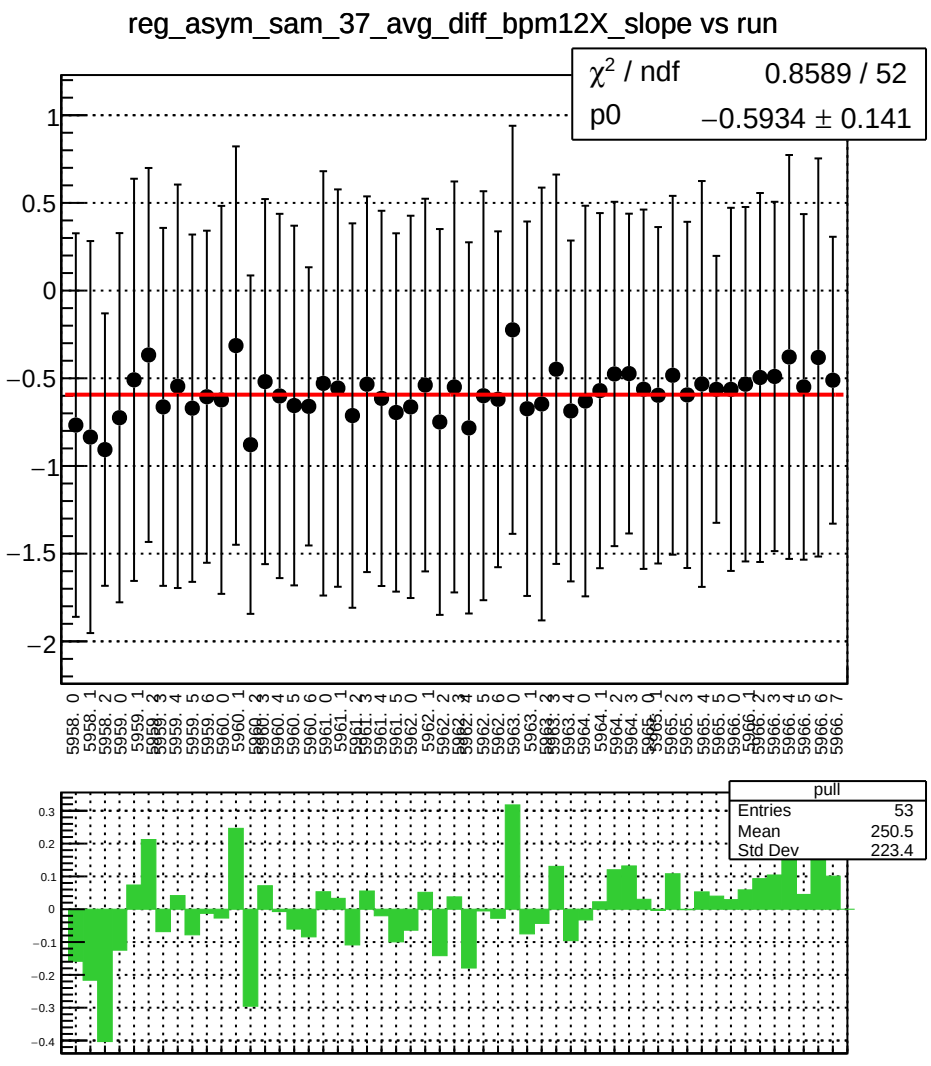

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.9096 / 52
p0 5.473 ± 1.202
pull
Entries 53
Mean 2936
Std Dev 2912
pull1D
Entries 53
Mean −0.0003163
Std Dev 0.131

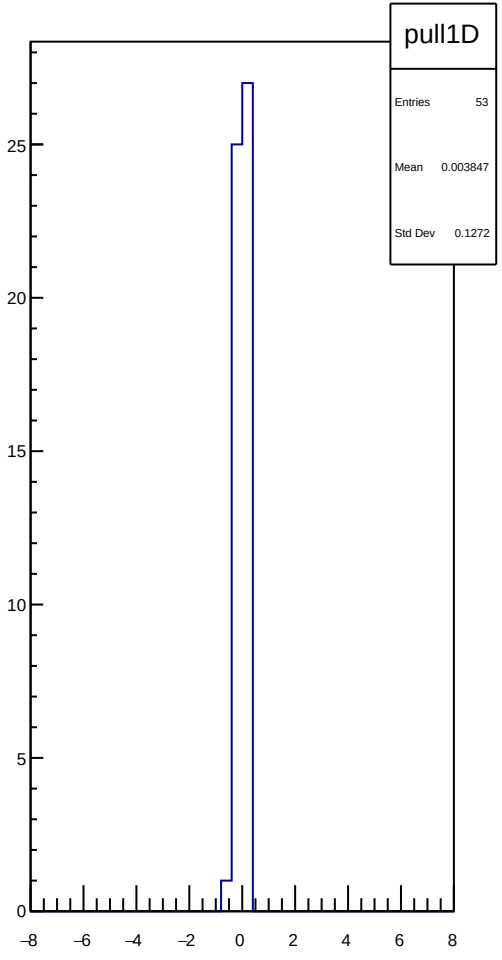

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.899 / 52
p0 −60.88 ± 3.353
pull
Entries 53
Mean 159.2
Std Dev 136.1

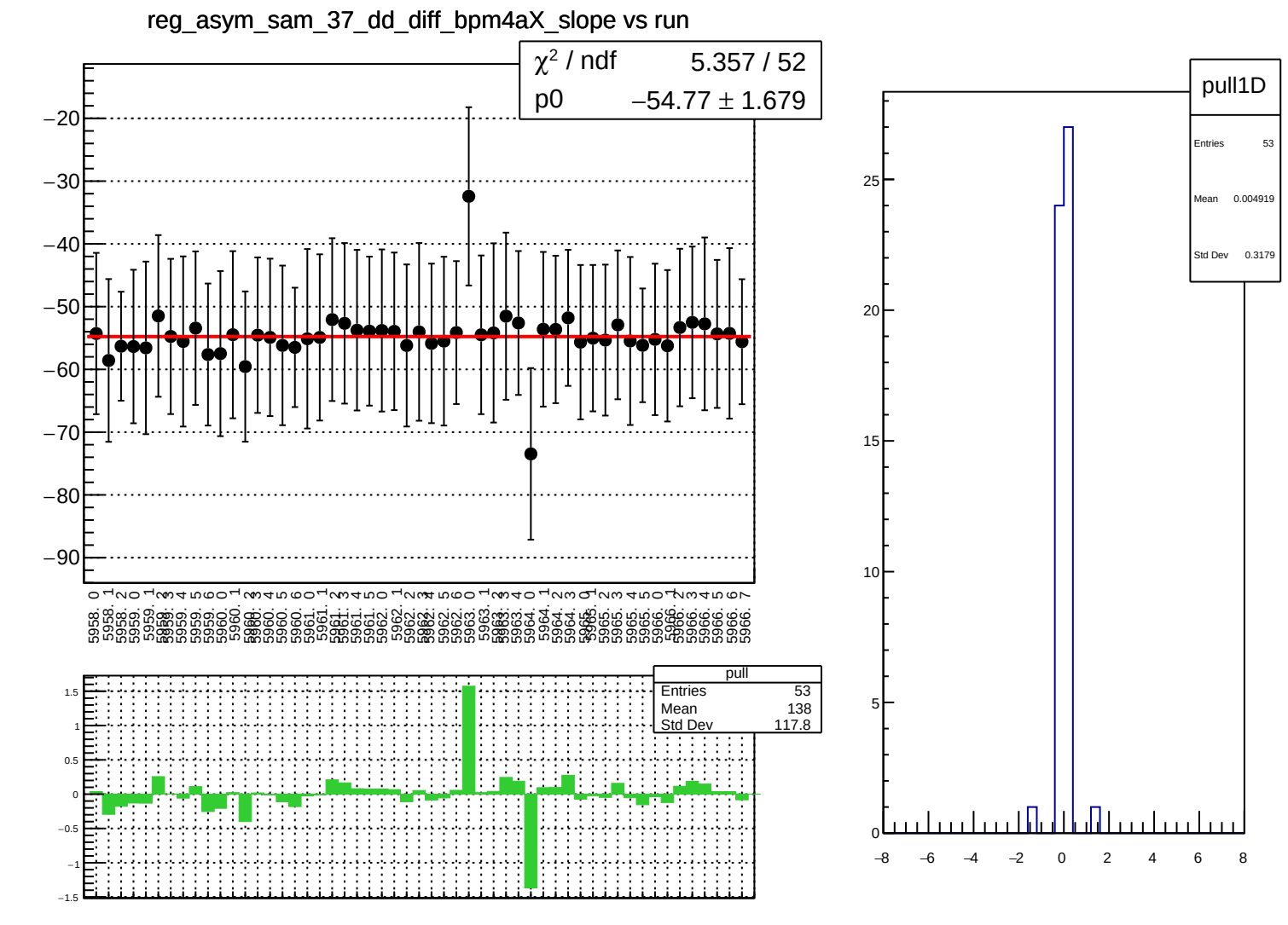

pull1D
Entries 53
Mean −0.008787
Std Dev 0.2337

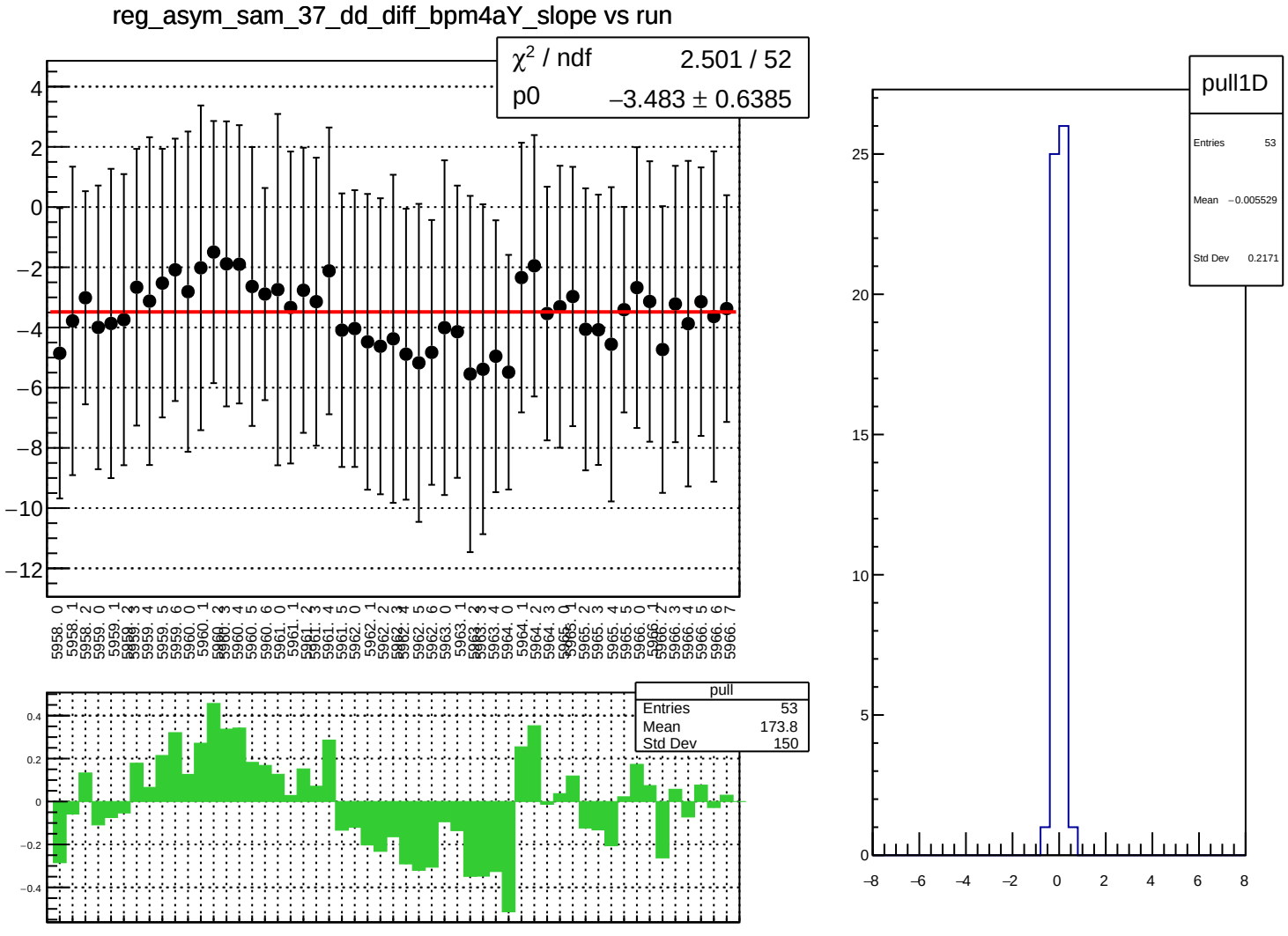

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.279 / 52
p0 0.926 ± 1.55
pull
Entries 53
Mean 640.5
Std Dev 616

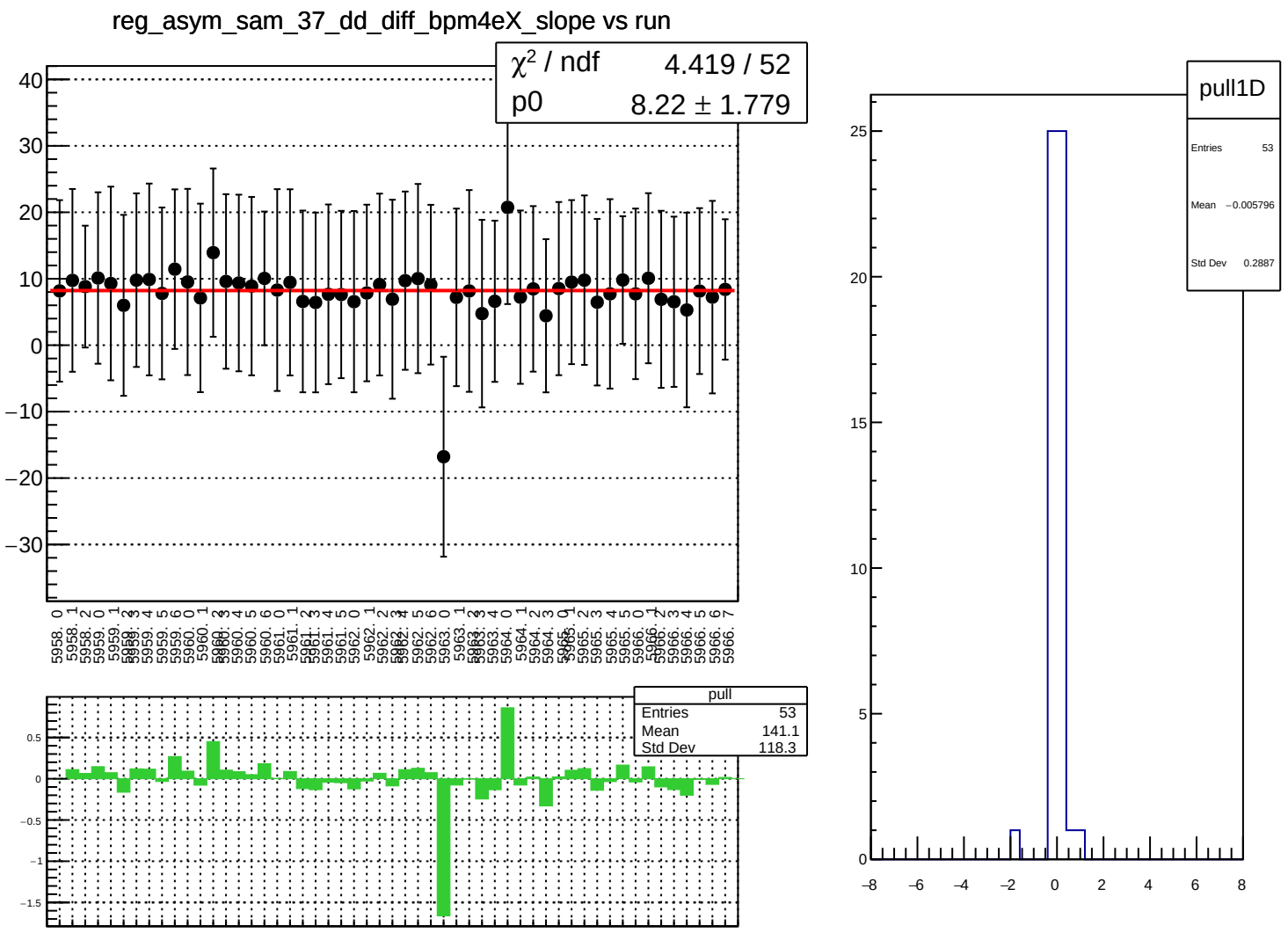

pull1D
Entries 53
Mean 0.001807
Std Dev 0.1554

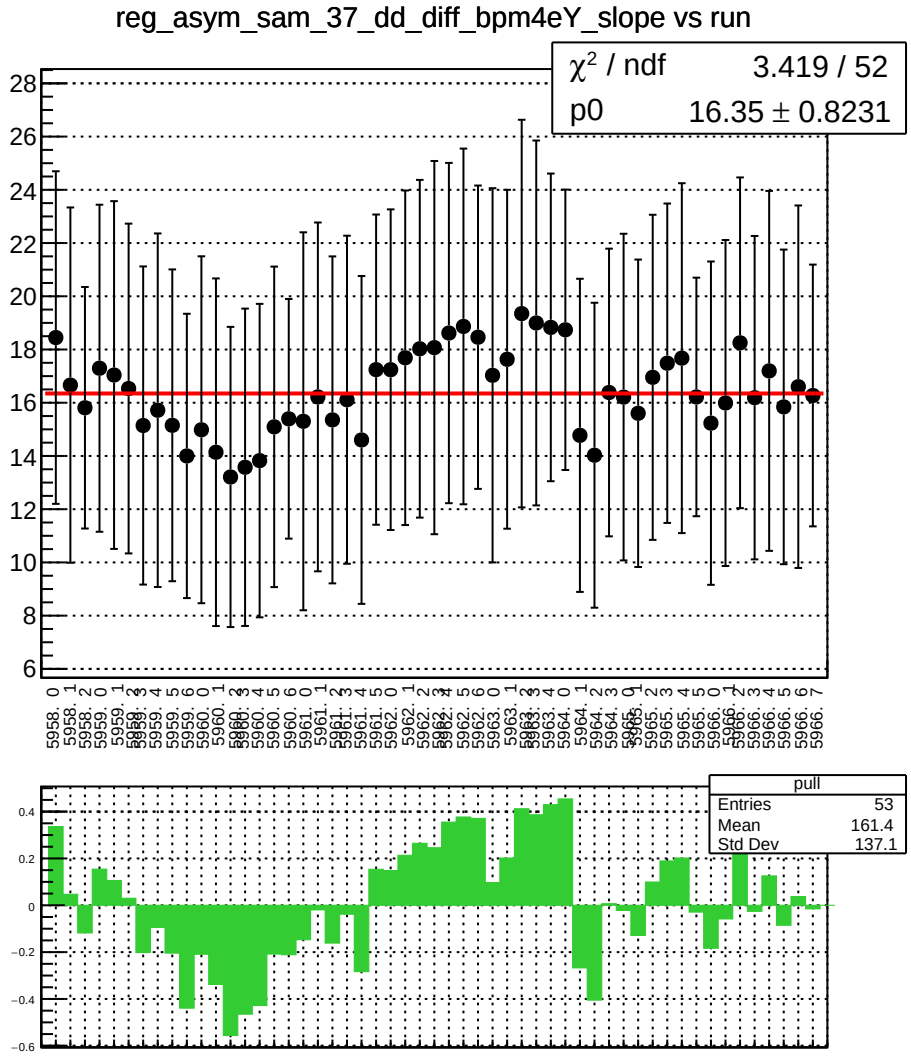

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8589 / 52
p0 −0.5934 ± 0.141
pull
Entries 53
Mean 250.5
Std Dev 223.4

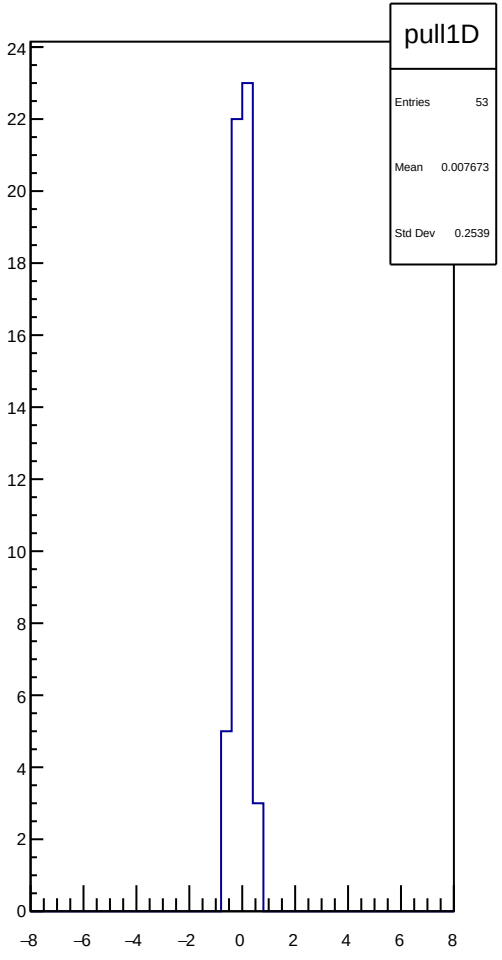

pull1D
Entries 53
Mean 0.003847
Std Dev 0.1272

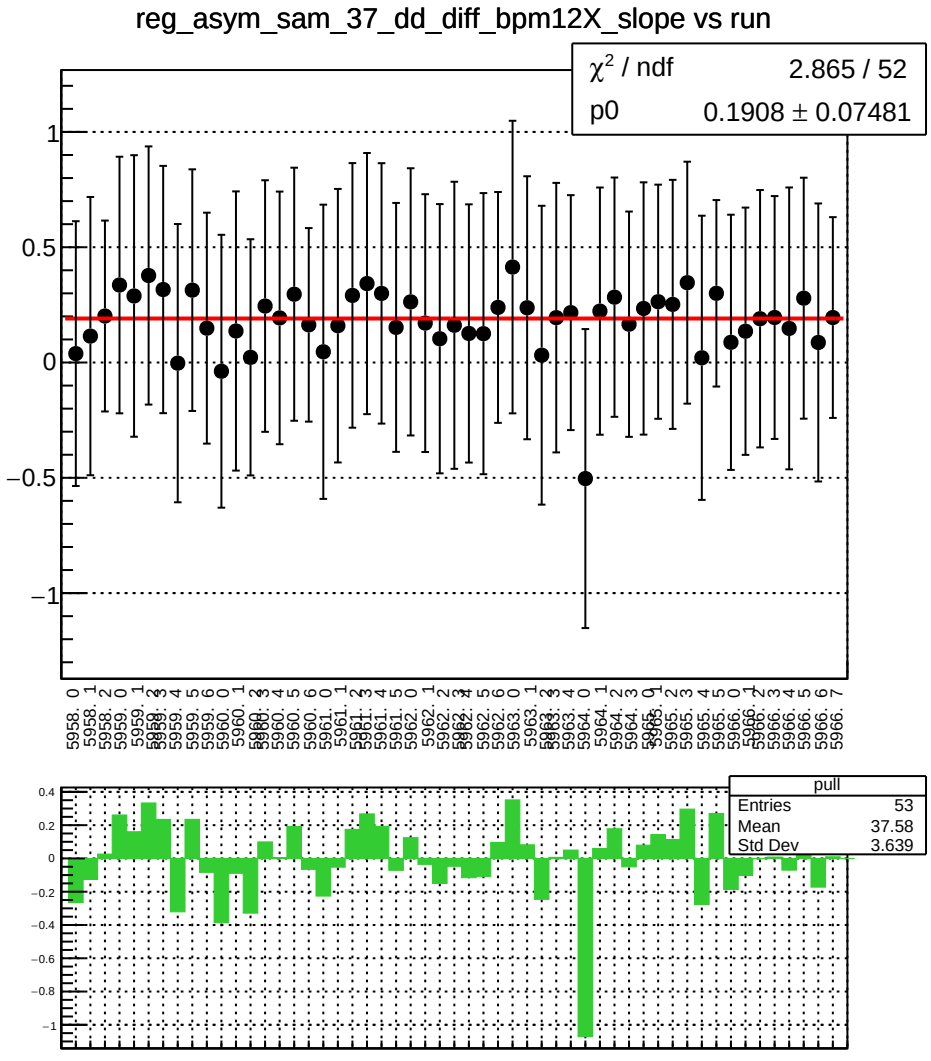

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.357 / 52
p0 −54.77 ± 1.679
pull
Entries 53
Mean 138
Std Dev 117.8
pull1D
Entries 53
Mean 0.004919
Std Dev 0.3179

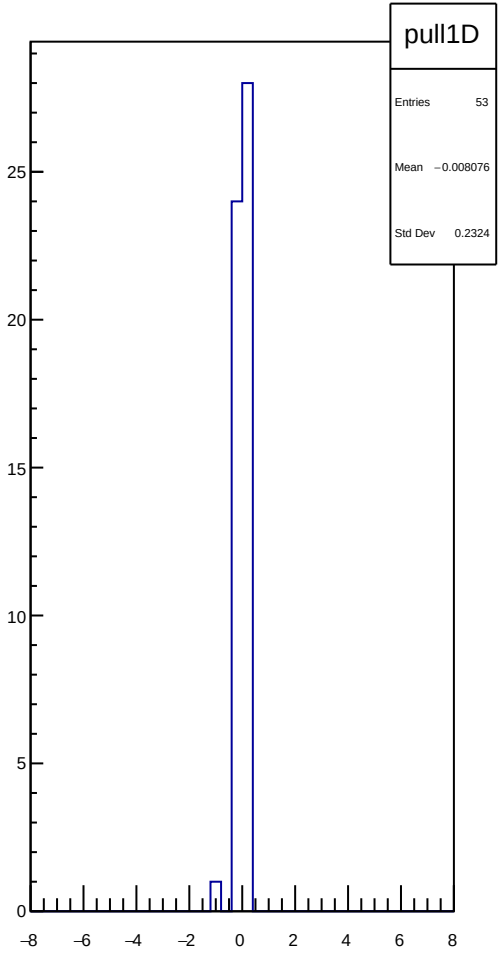

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.501 / 52
p0 −3.483 ± 0.6385
pull
Entries 53
Mean 173.8
Std Dev 150
pull1D
Entries 53
Mean −0.005529
Std Dev 0.2171

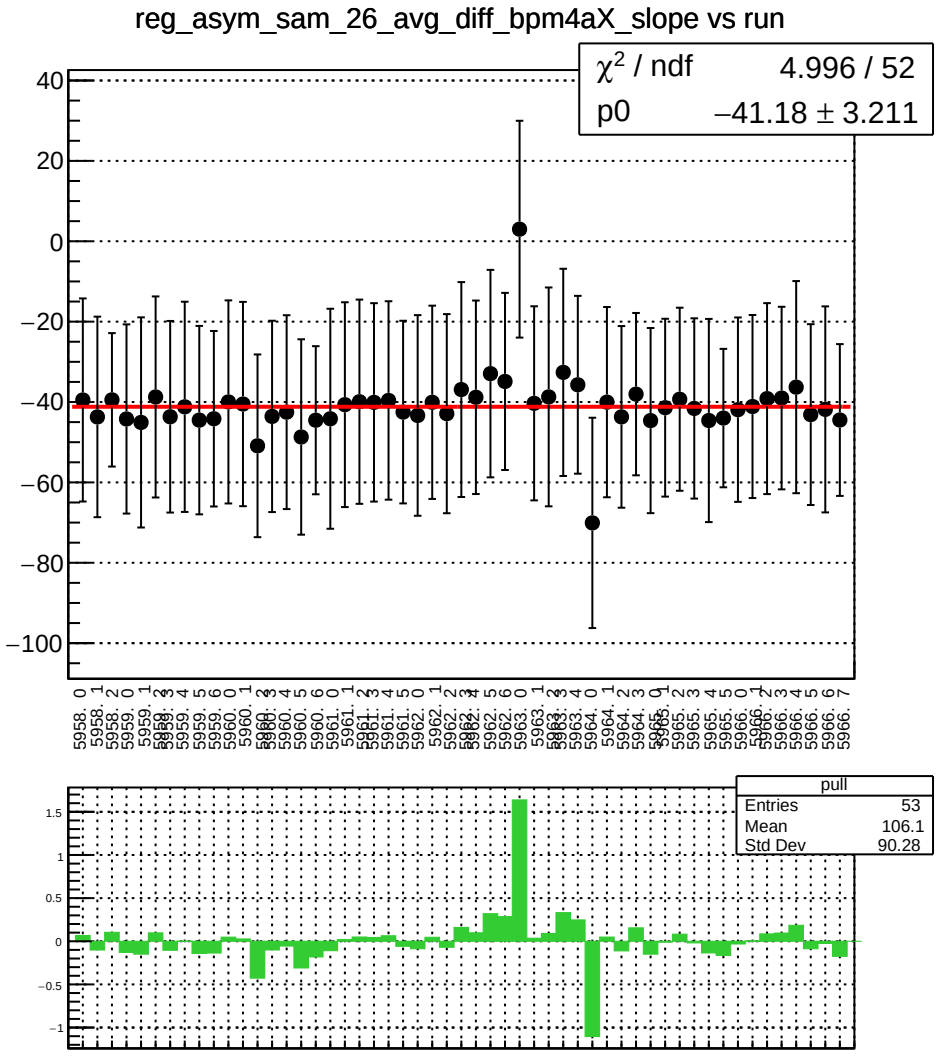

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.419 / 52
p0 8.22 ± 1.779
pull
Entries 53
Mean 141.1
Std Dev 118.3
pull1D
Entries 53
Mean −0.005796
Std Dev 0.2887

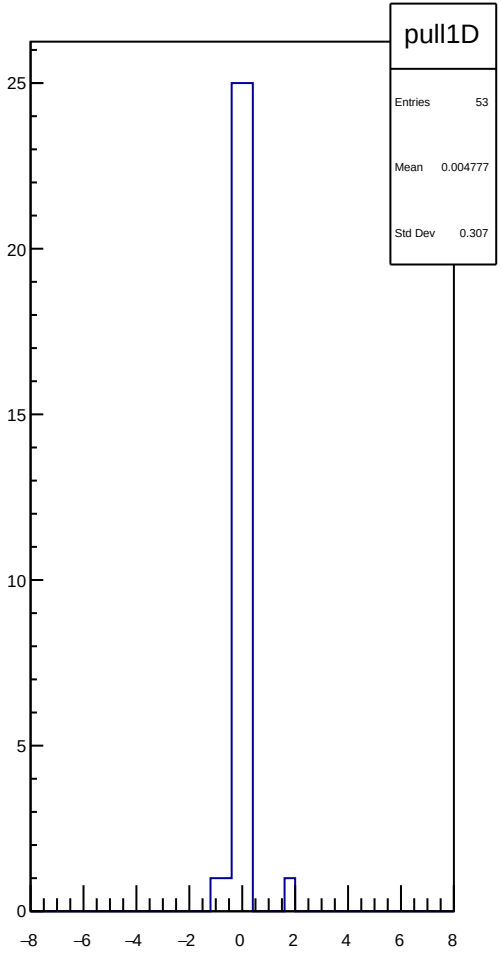

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.419 / 52
p0 16.35 ± 0.8231
pull
Entries 53
Mean 161.4
Std Dev 137.1

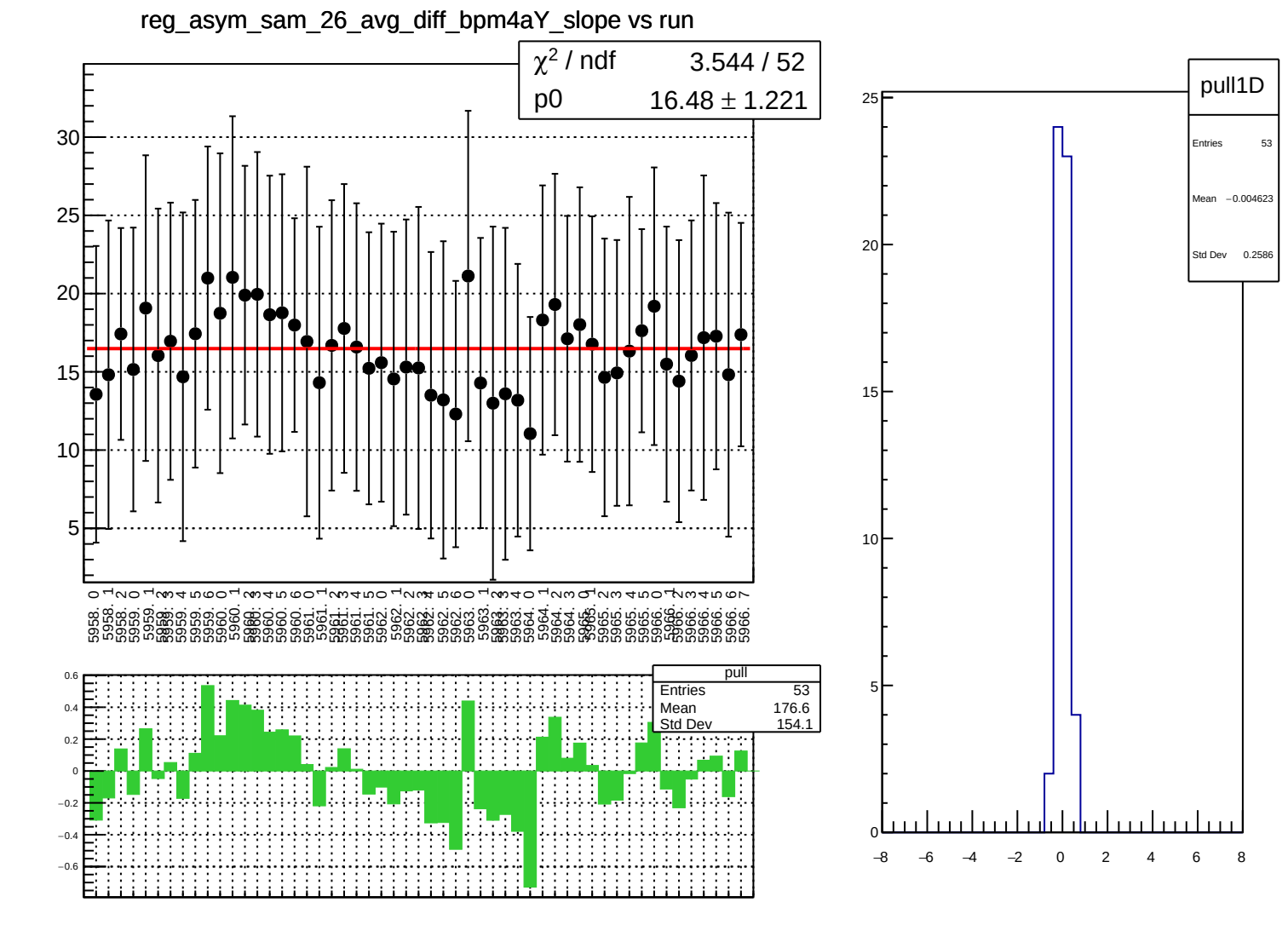

pull1D
Entries 53
Mean 0.007673
Std Dev 0.2539

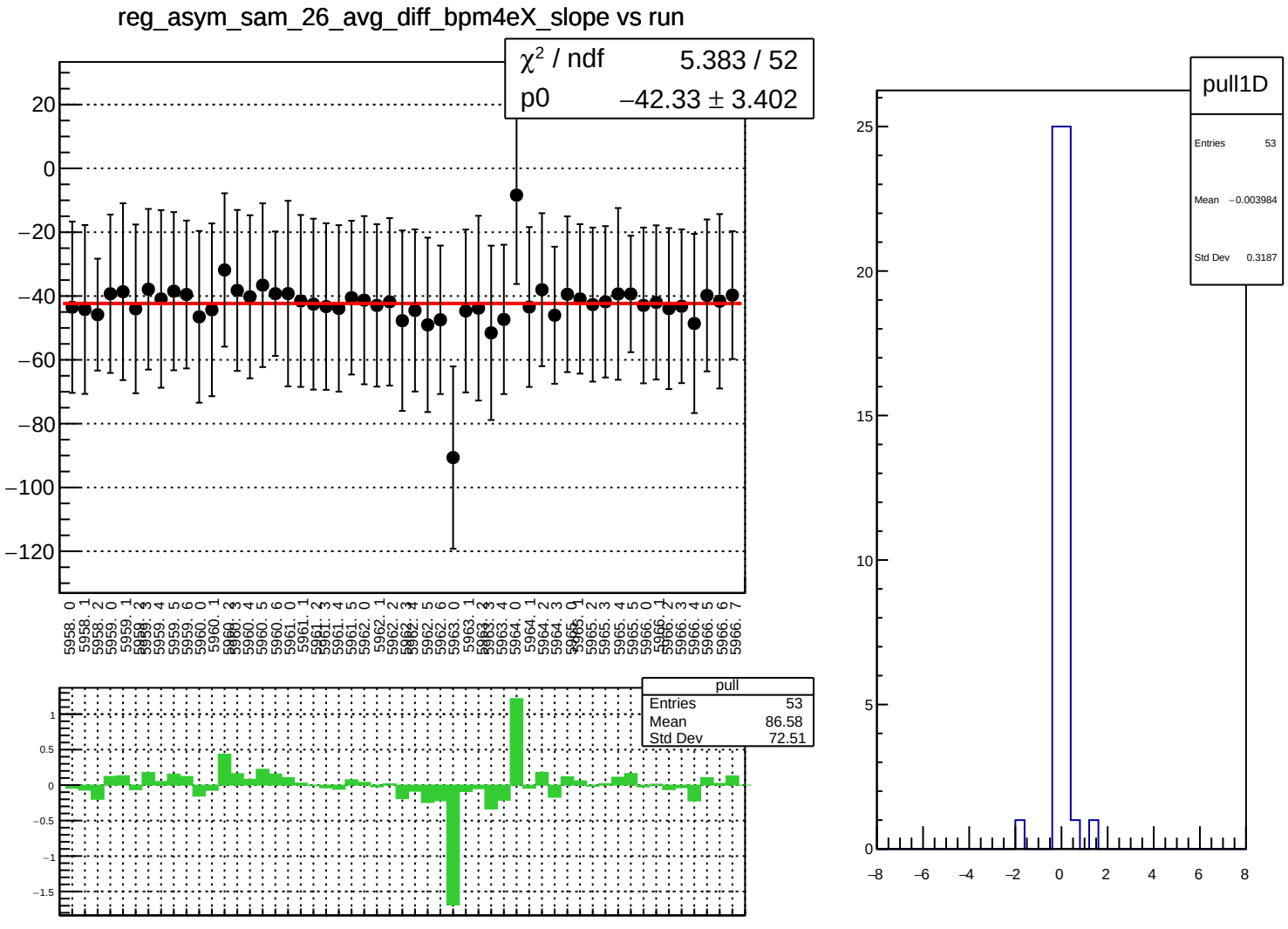

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.865 / 52
p0 0.1908 ± 0.07481
pull
Entries 53
Mean 37.58
Std Dev 3.639

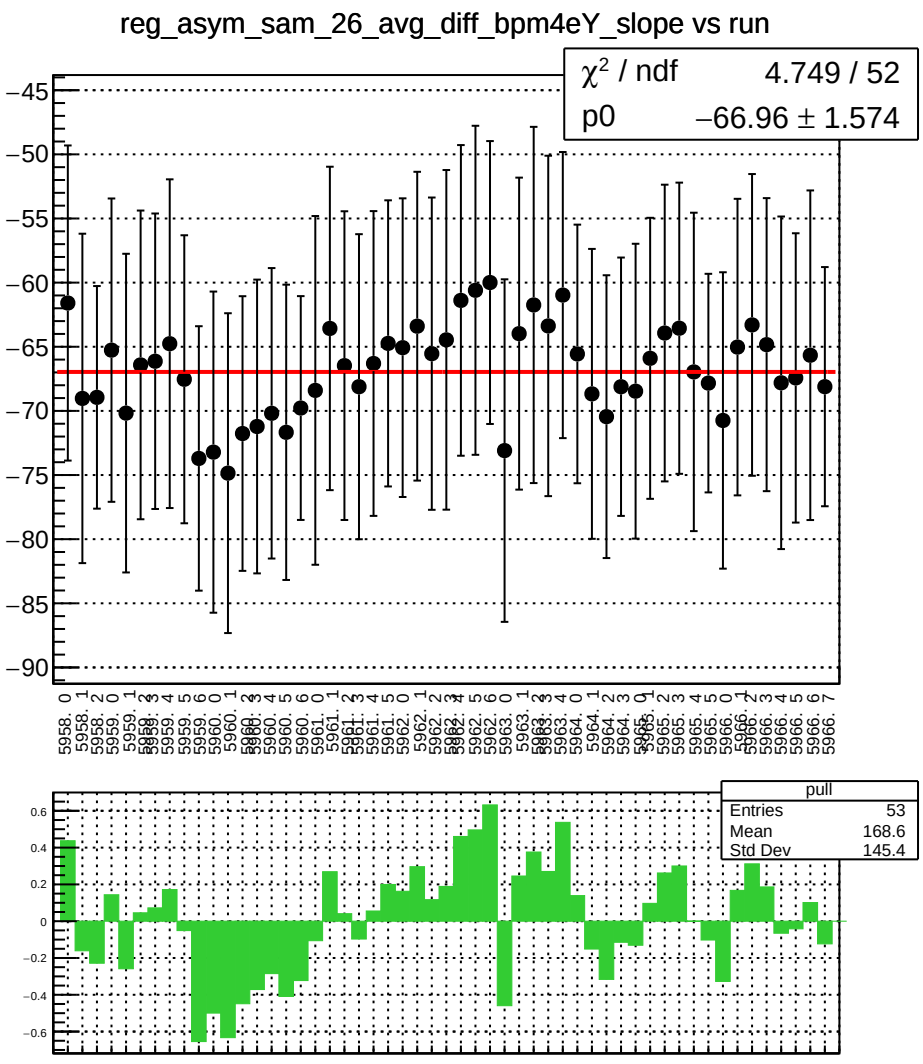

pull1D
Entries 53
Mean −0.008076
Std Dev 0.2324

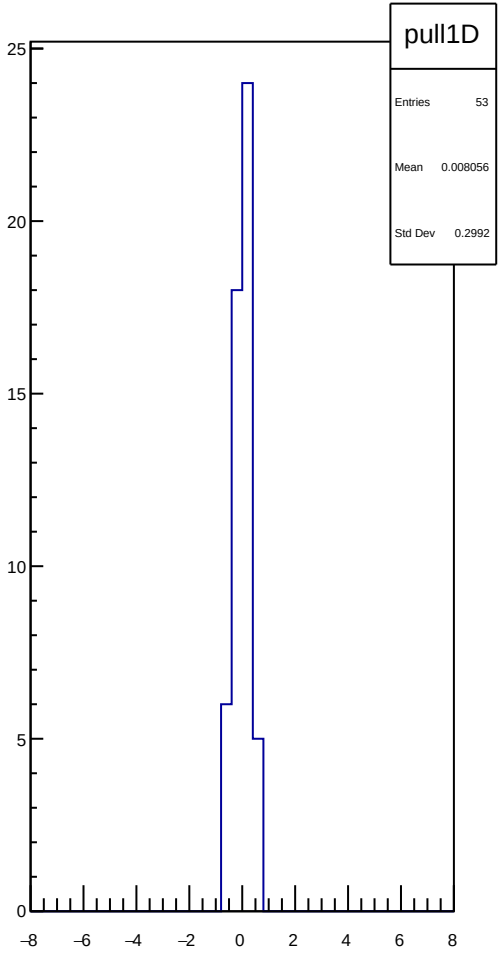

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.996 / 52
p0 −41.18 ± 3.211
pull
Entries 53
Mean 106.1
Std Dev 90.28

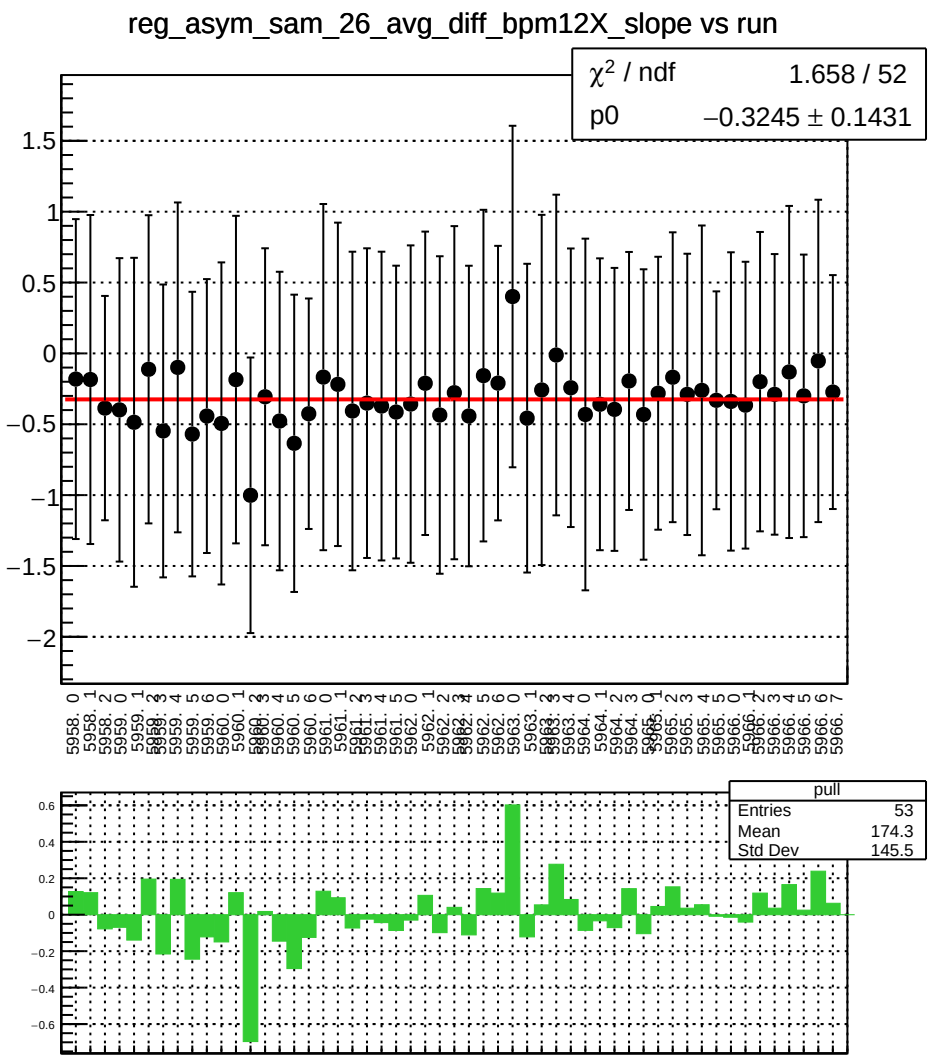

pull1D
Entries 53
Mean 0.004777
Std Dev 0.307

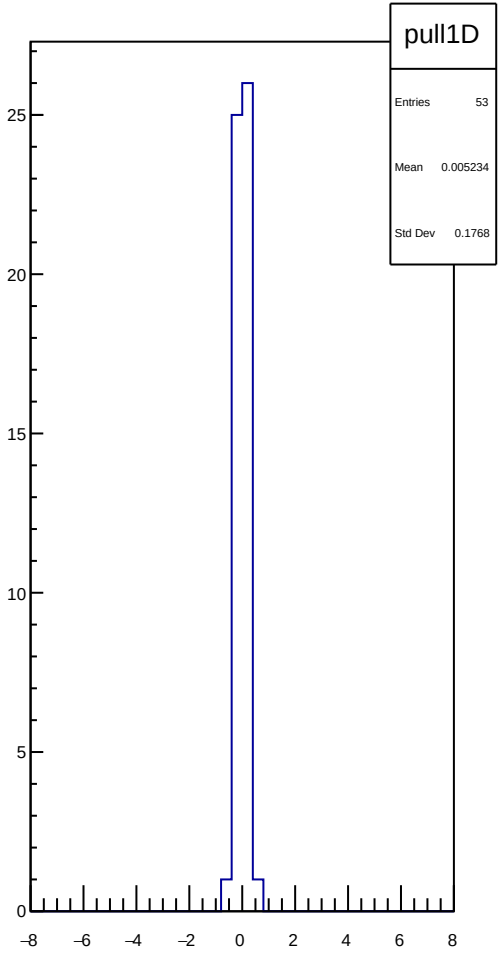

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.544 / 52
p0 16.48 ± 1.221
pull
Entries 53
Mean 176.6
Std Dev 154.1
pull1D
Entries 53
Mean −0.004623
Std Dev 0.2586

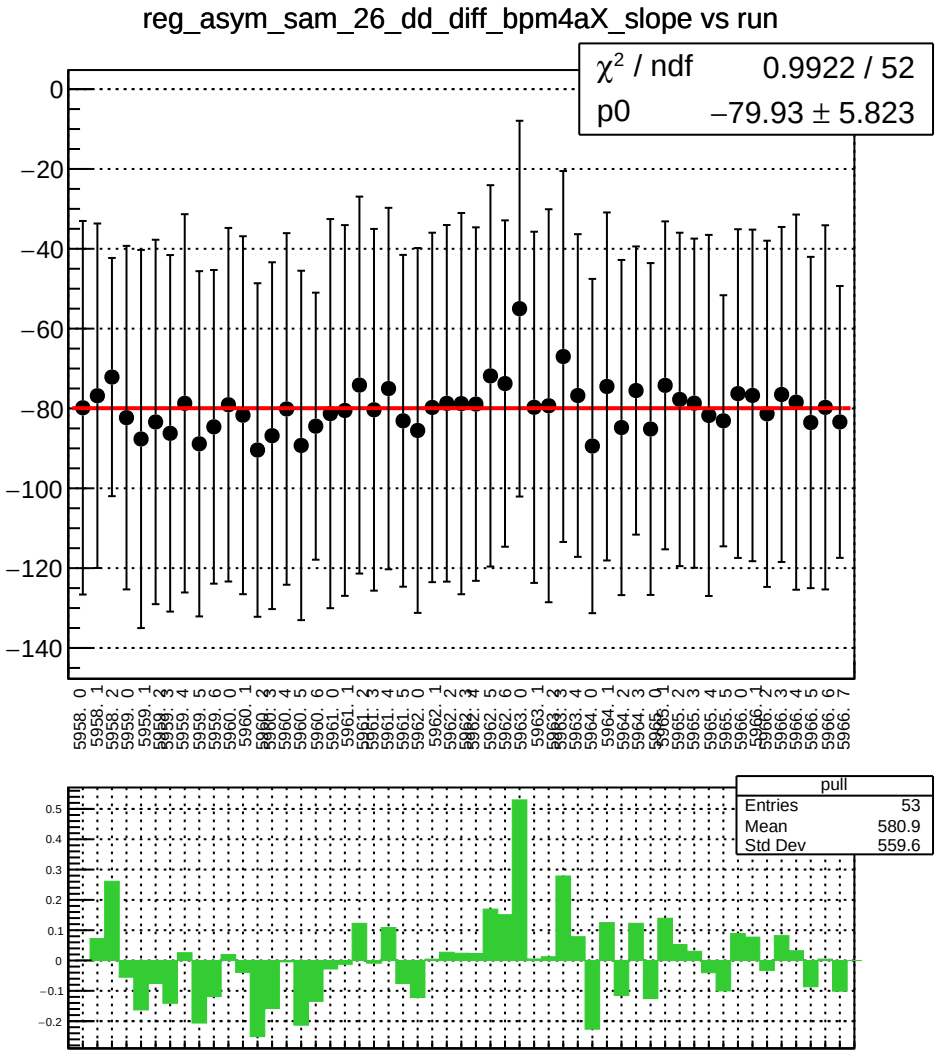

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.383 / 52
p0 −42.33 ± 3.402
pull
Entries 53
Mean 86.58
Std Dev 72.51
pull1D
Entries 53
Mean −0.003984
Std Dev 0.3187

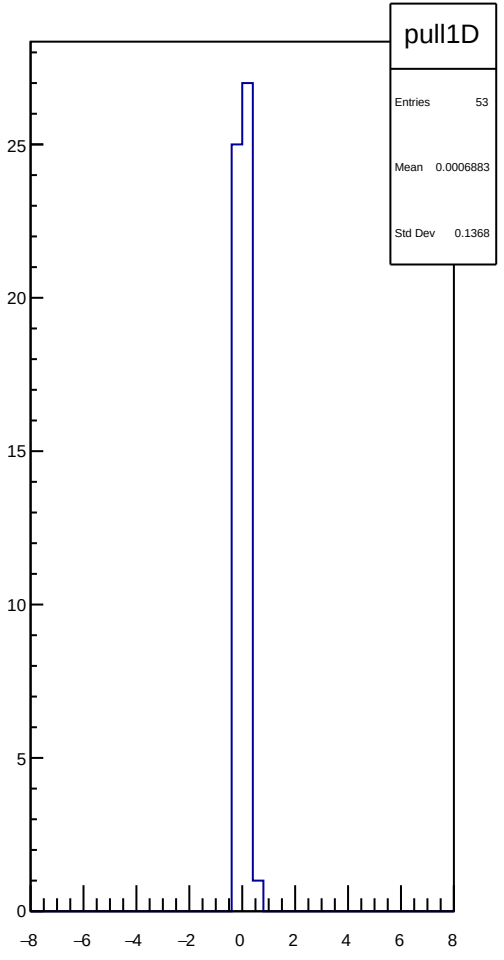

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.749 / 52
p0 −66.96 ± 1.574
pull
Entries 53
Mean 168.6
Std Dev 145.4

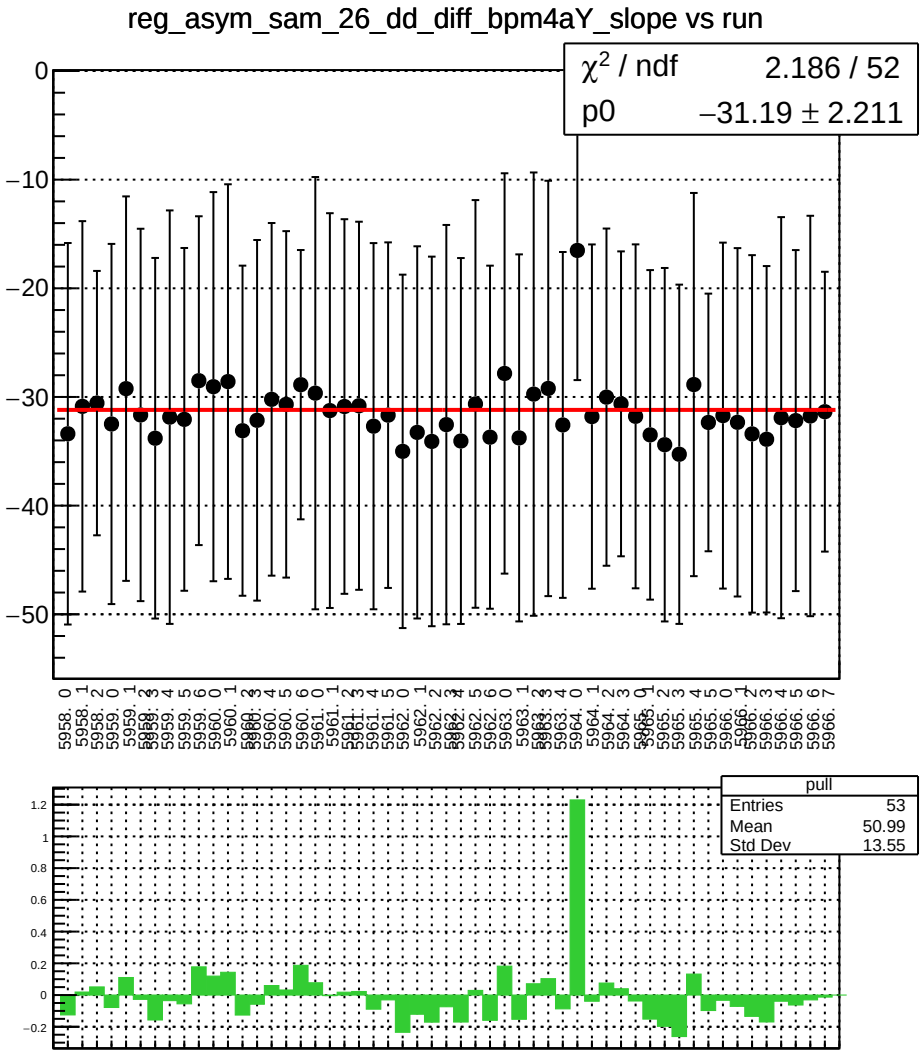

pull1D
Entries 53
Mean 0.008056
Std Dev 0.2992

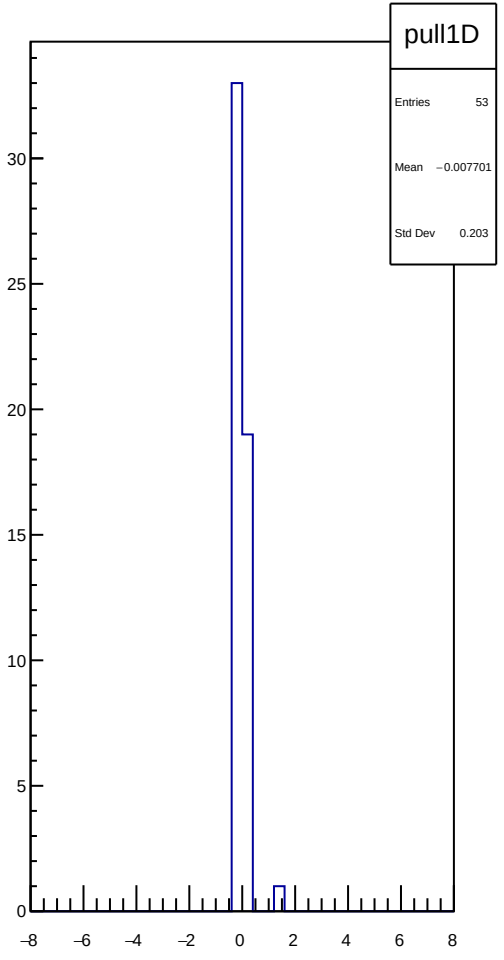

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1.658 / 52
p0 −0.3245 ± 0.1431
pull
Entries 53
Mean 174.3
Std Dev 145.5

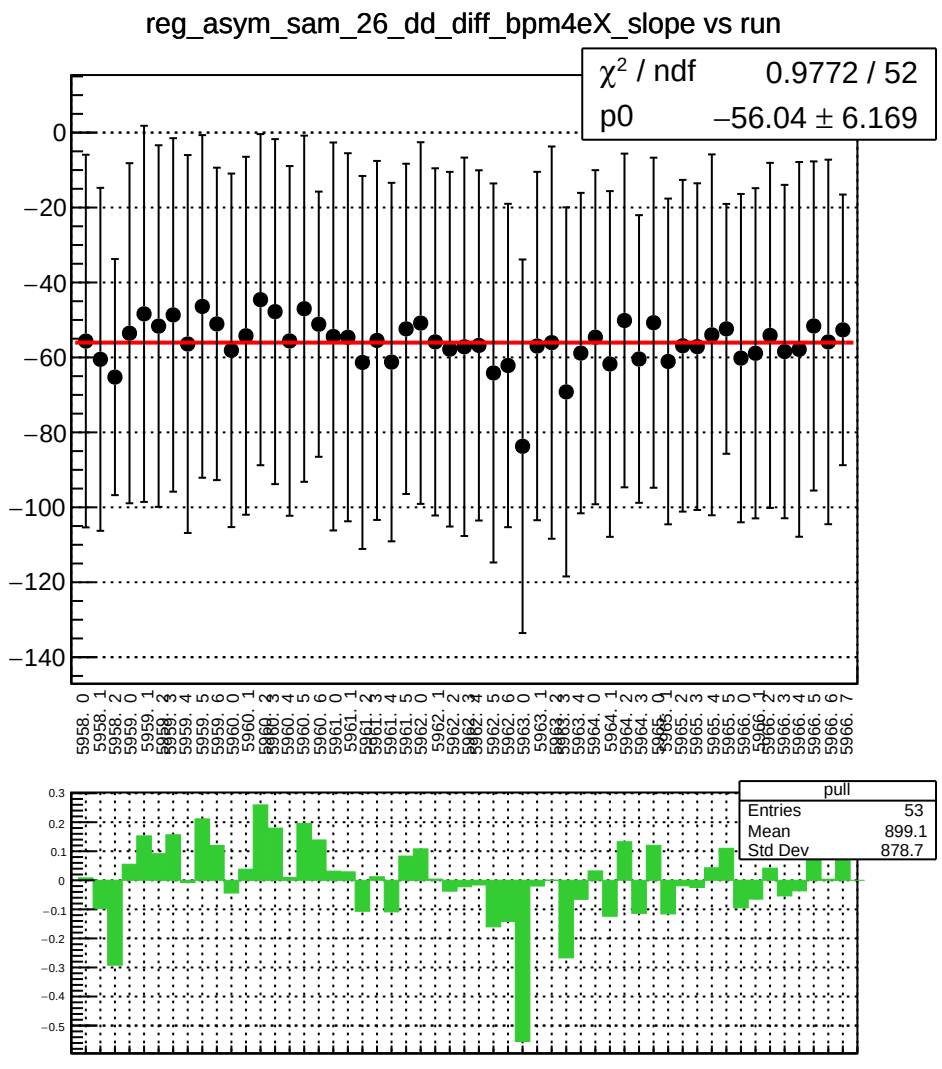

pull1D
Entries 53
Mean 0.005234
Std Dev 0.1768

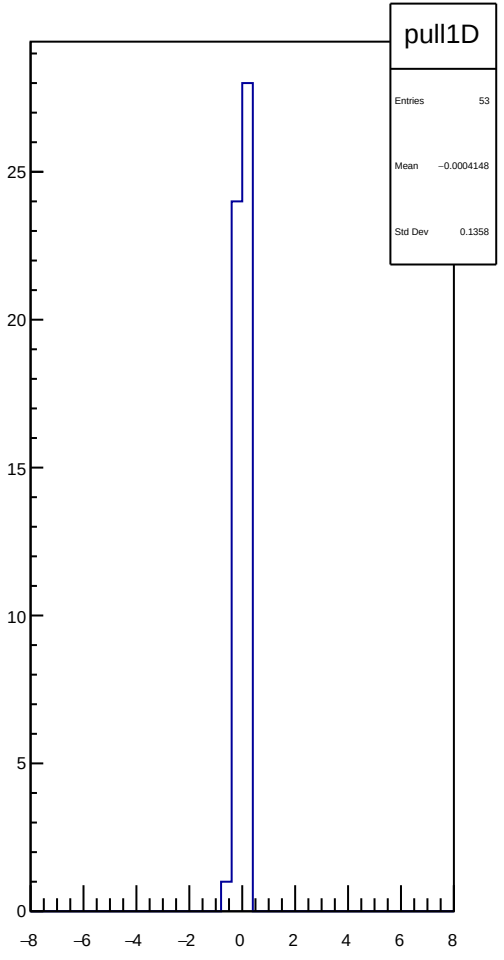

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.9922 / 52
p0 −79.93 ± 5.823
pull
Entries 53
Mean 580.9
Std Dev 559.6

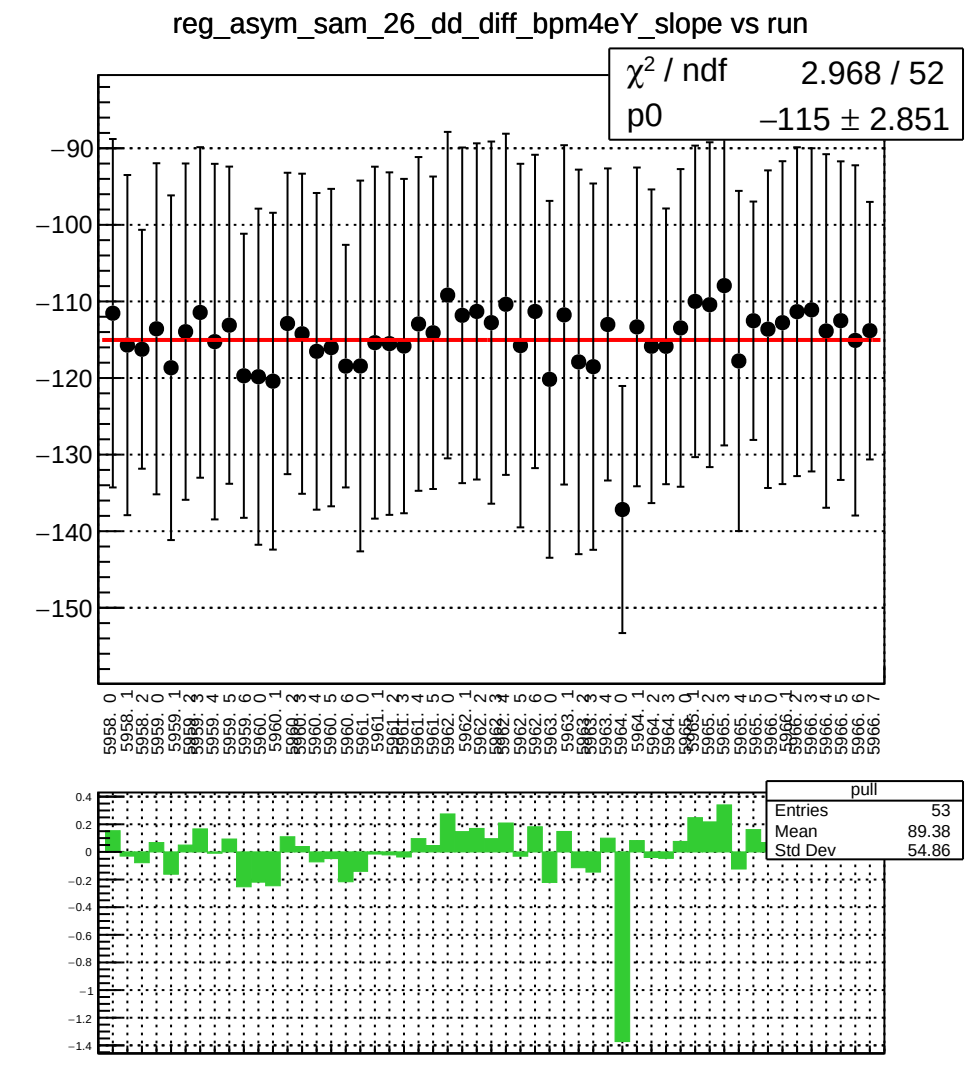

pull1D
Entries 53
Mean 0.0006883
Std Dev 0.1368

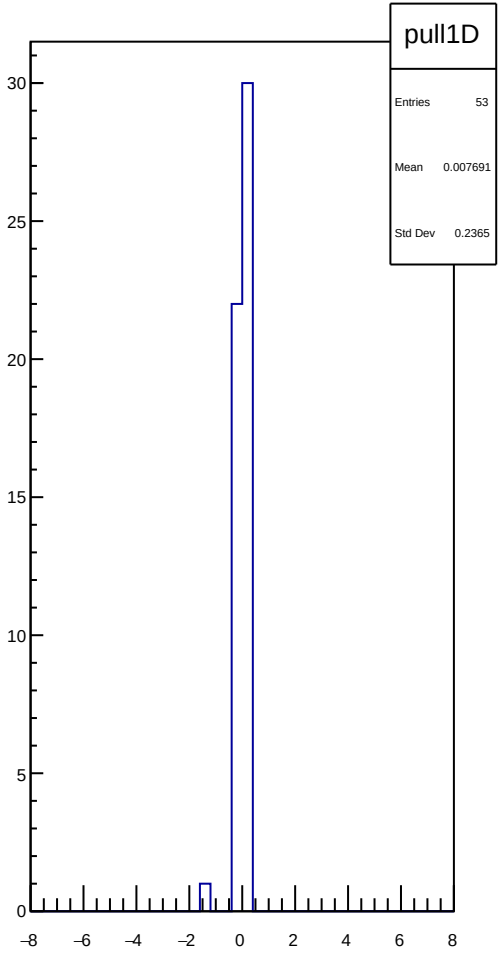

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.186 / 52
p0 −31.19 ± 2.211
pull
Entries 53
Mean 50.99
Std Dev 13.55

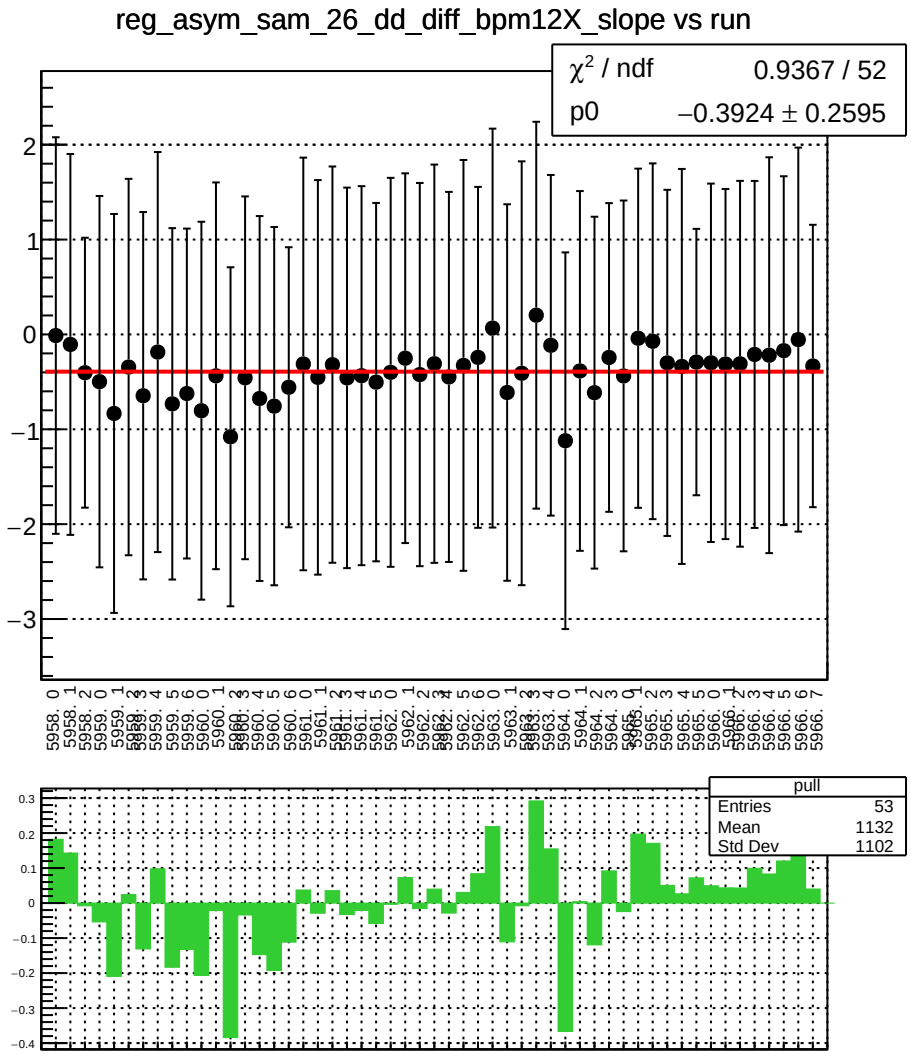

pull1D
Entries 53
Mean −0.007701
Std Dev 0.203

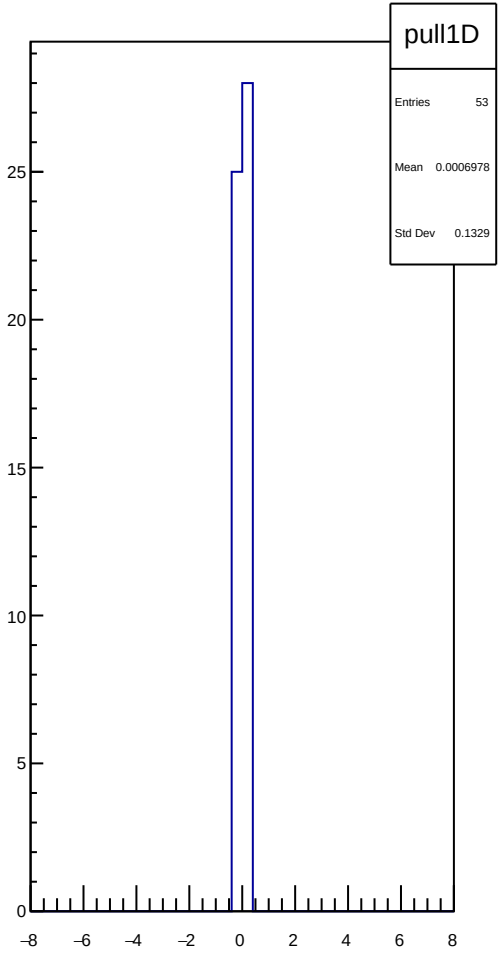

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.9772 / 52
p0 −56.04 ± 6.169
pull
Entries 53
Mean 899.1
Std Dev 878.7

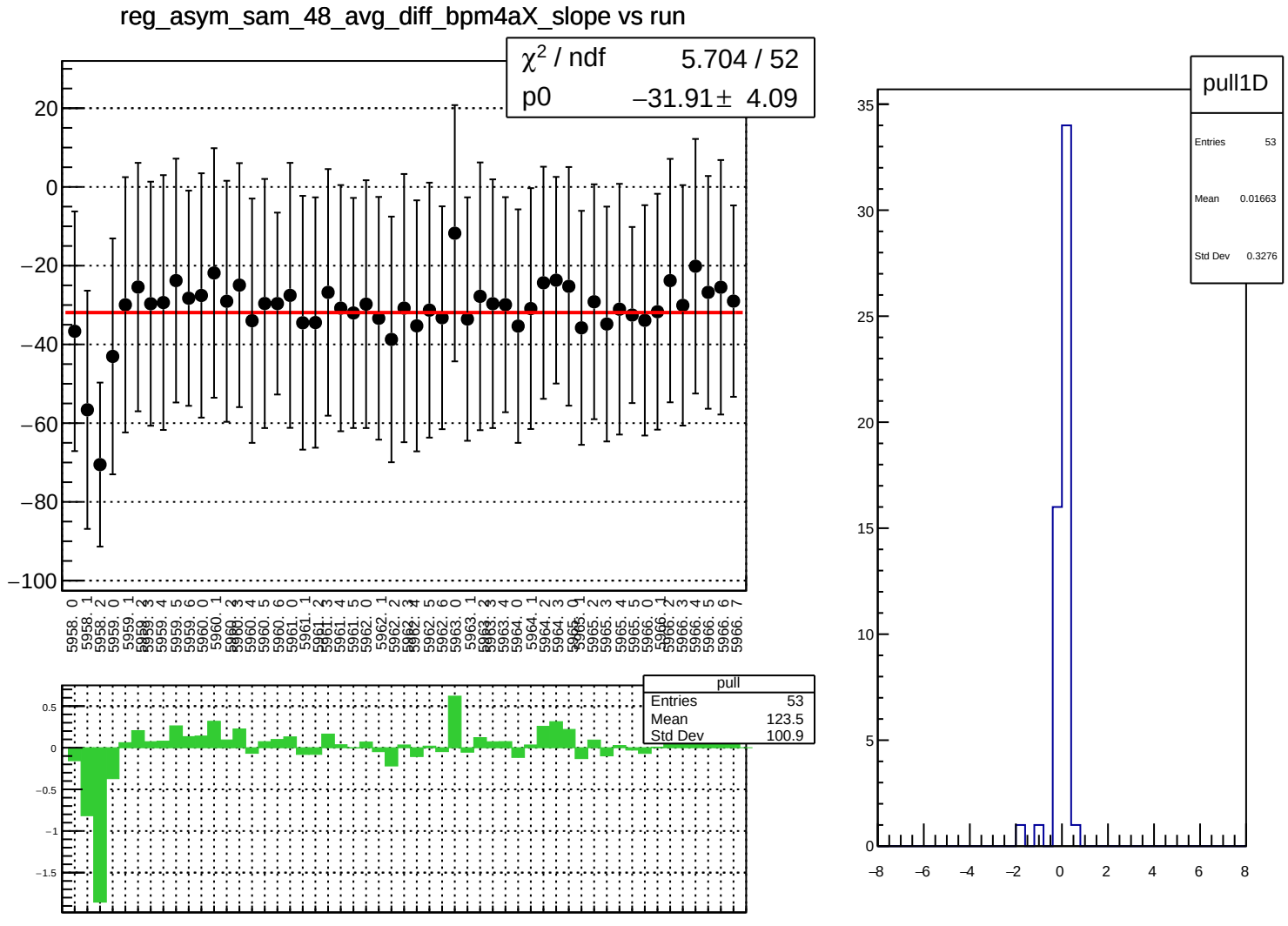

pull1D
Entries 53
Mean −0.0004148
Std Dev 0.1358

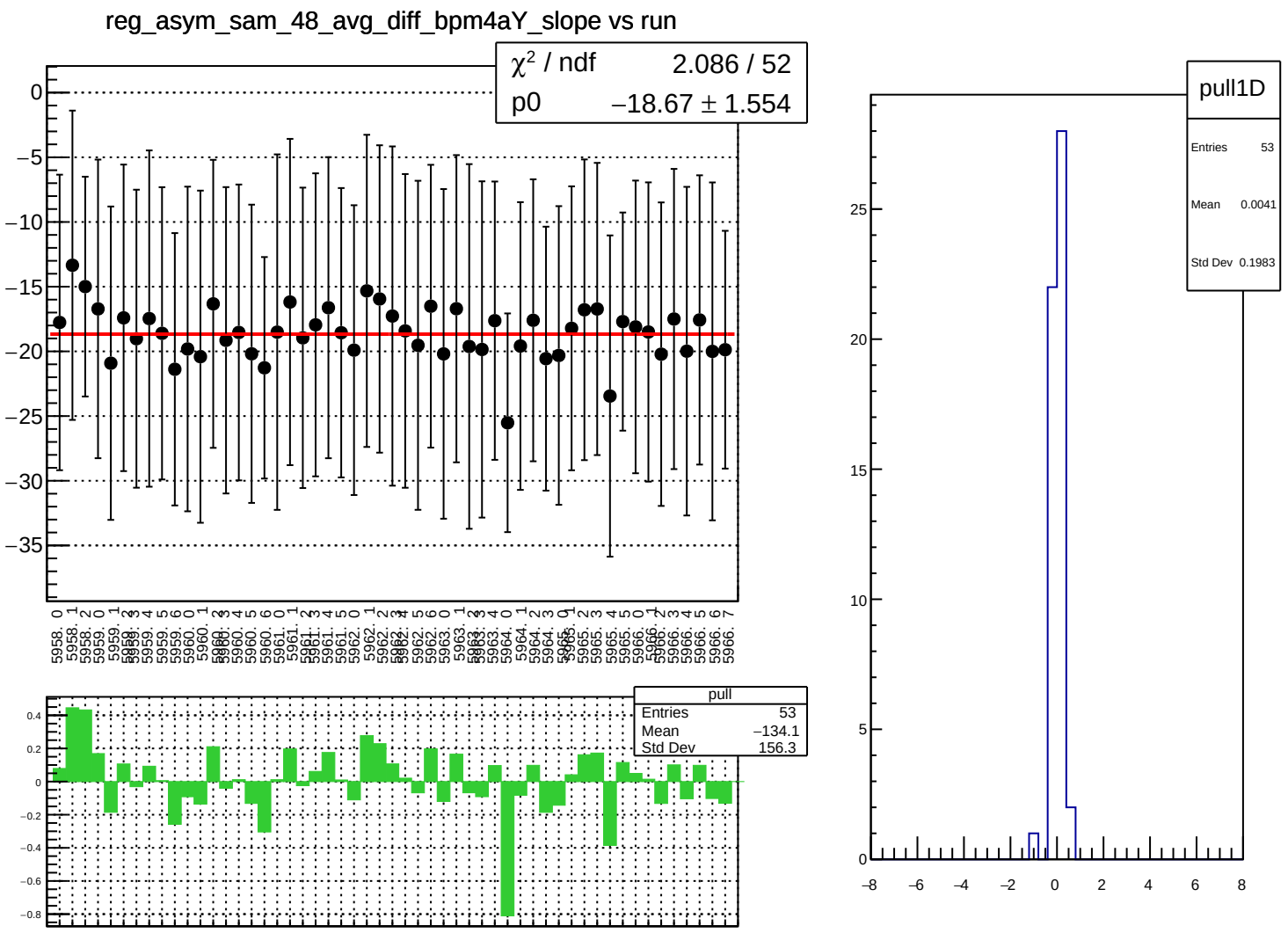

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.968 / 52
p0 −115 ± 2.851
pull
Entries 53
Mean 89.38
Std Dev 54.86

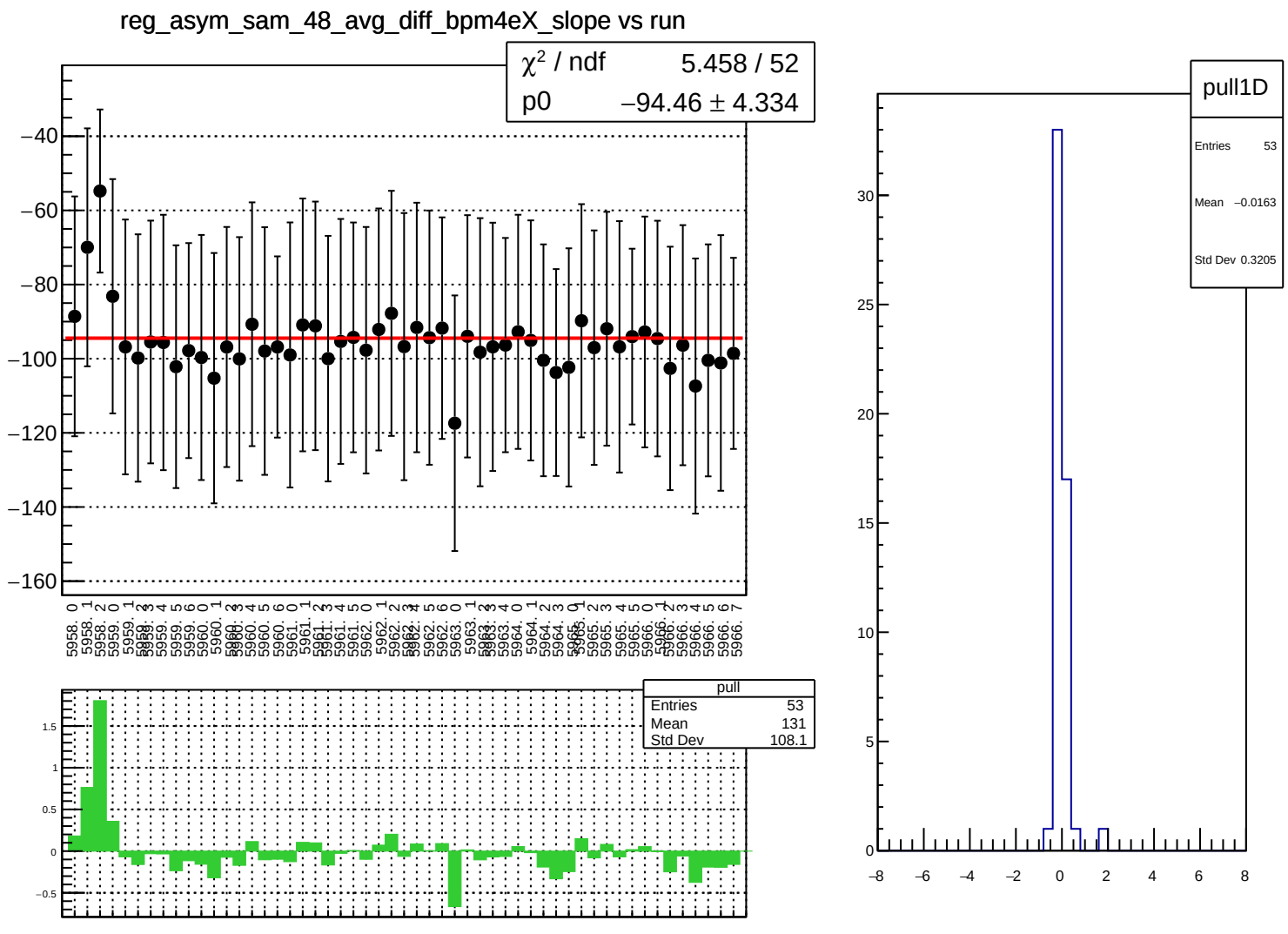

pull1D
Entries 53
Mean 0.007691
Std Dev 0.2365

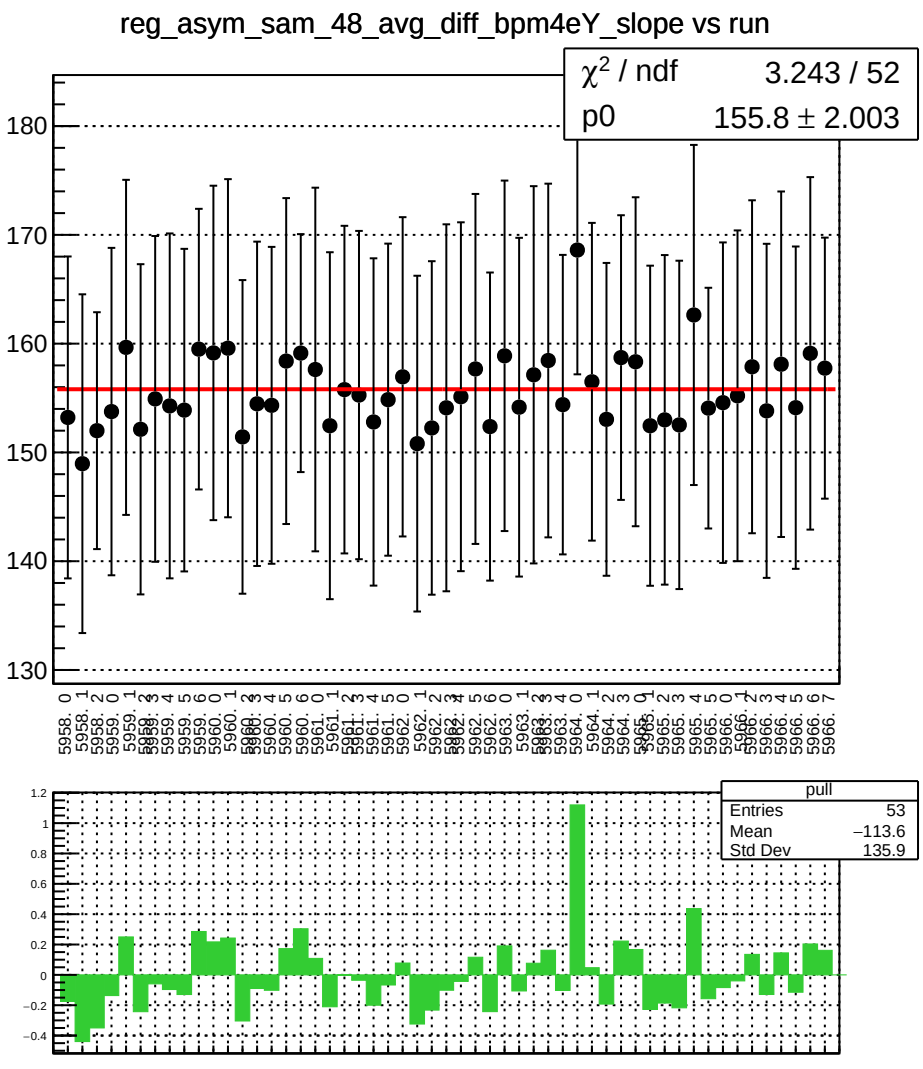

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9367 / 52
p0 −0.3924 ± 0.2595
pull
Entries 53
Mean 1132
Std Dev 1102

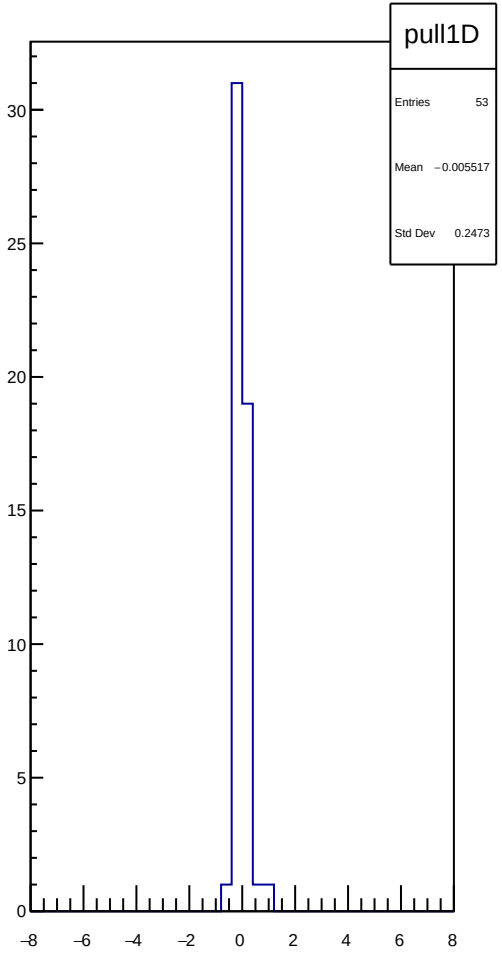

pull1D
Entries 53
Mean 0.0006978
Std Dev 0.1329

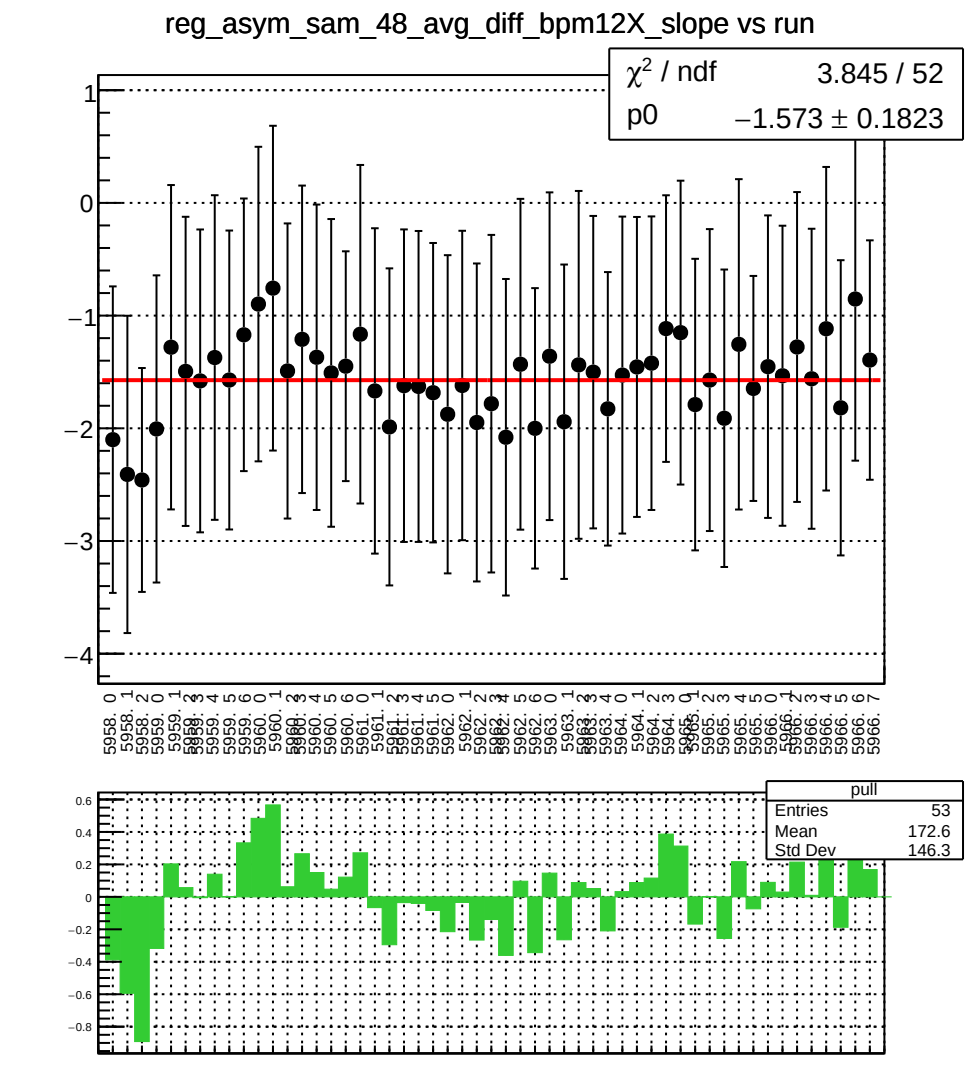

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.704 / 52
p0 −31.91± 4.09
pull
Entries 53
Mean 123.5
Std Dev 100.9
pull1D
Entries 53
Mean 0.01663
Std Dev 0.3276

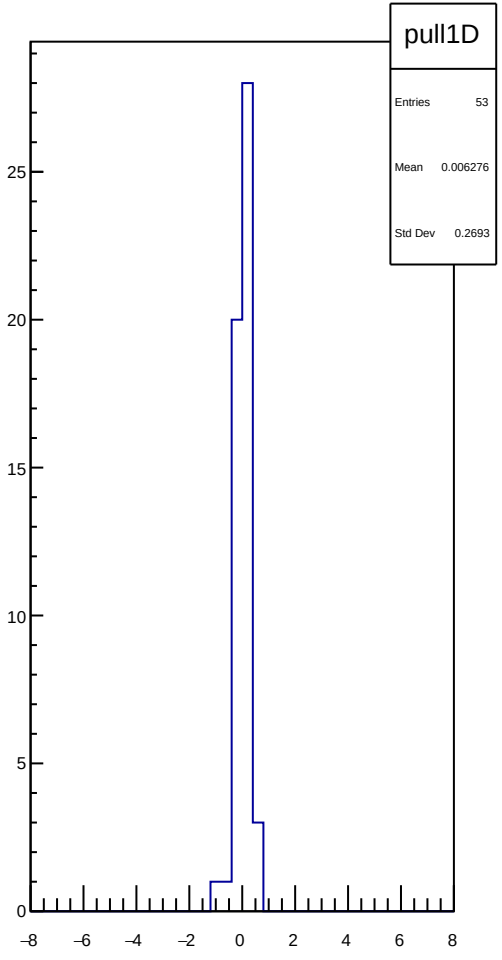

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.086 / 52
p0 −18.67 ± 1.554
pull
Entries 53
Mean −134.1
Std Dev 156.3
pull1D
Entries 53
Mean 0.0041
Std Dev 0.1983

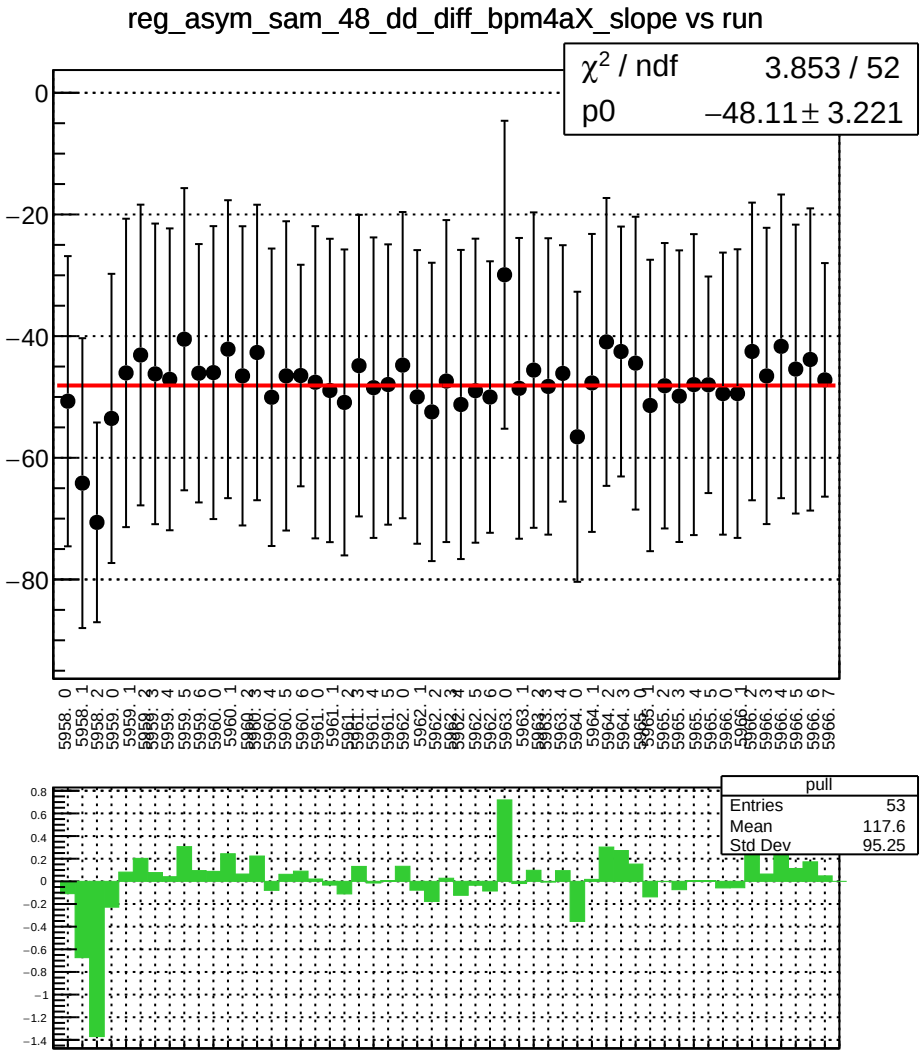

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.458 / 52
p0 −94.46 ± 4.334
pull
Entries 53
Mean 131
Std Dev 108.1
pull1D
Entries 53
Mean −0.0163
Std Dev 0.3205

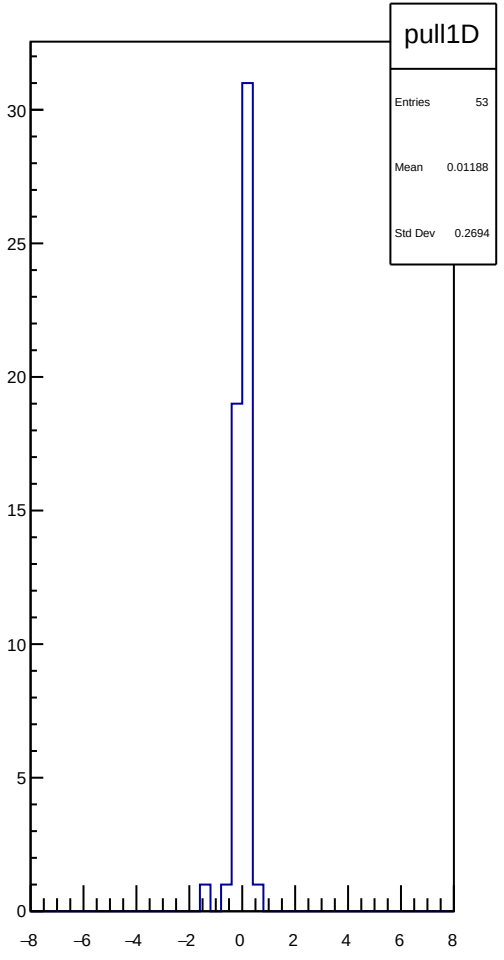

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 3.243 / 52
p0 155.8 ± 2.003
pull
Entries 53
Mean −113.6
Std Dev 135.9

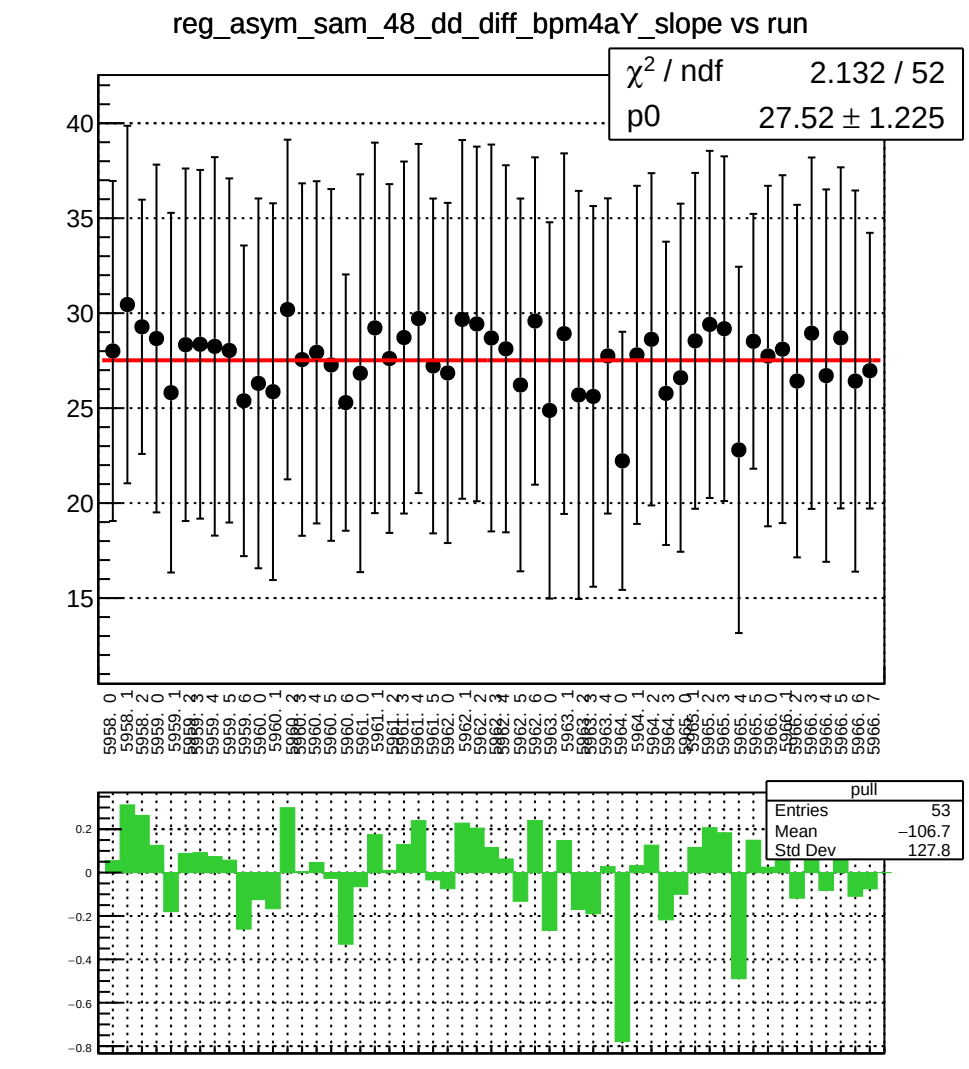

pull1D
Entries 53
Mean −0.005517
Std Dev 0.2473

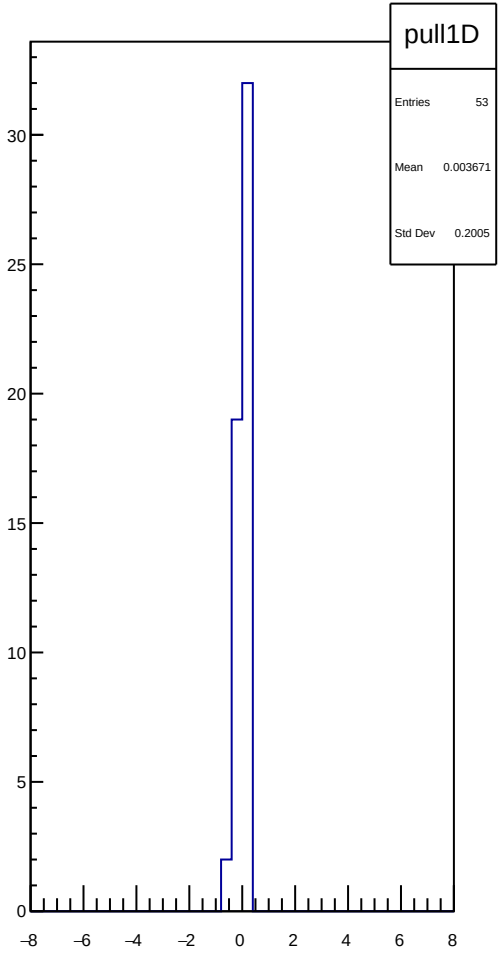

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 3.845 / 52
p0 −1.573 ± 0.1823
pull
Entries 53
Mean 172.6
Std Dev 146.3

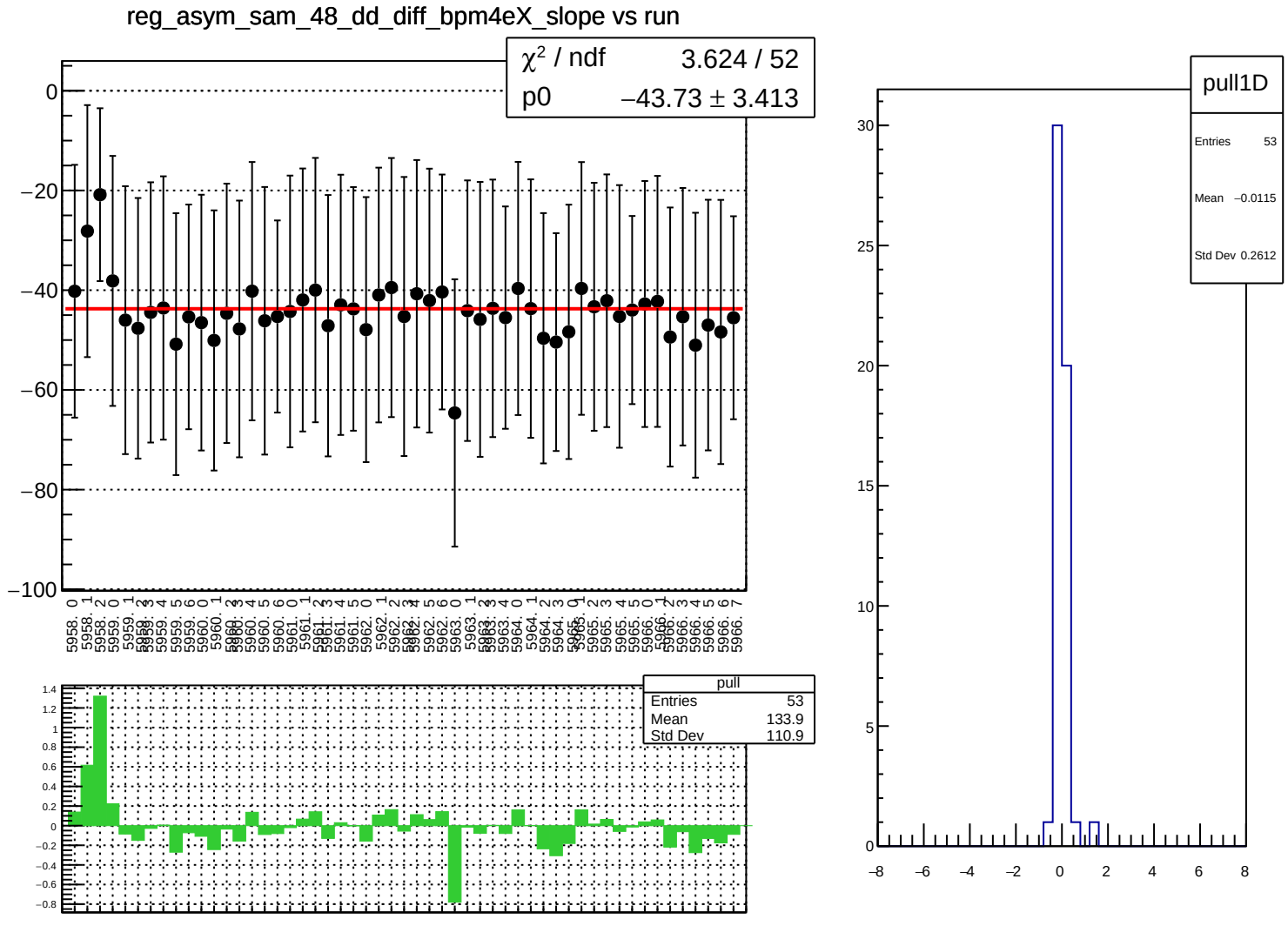

pull1D
Entries 53
Mean 0.006276
Std Dev 0.2693

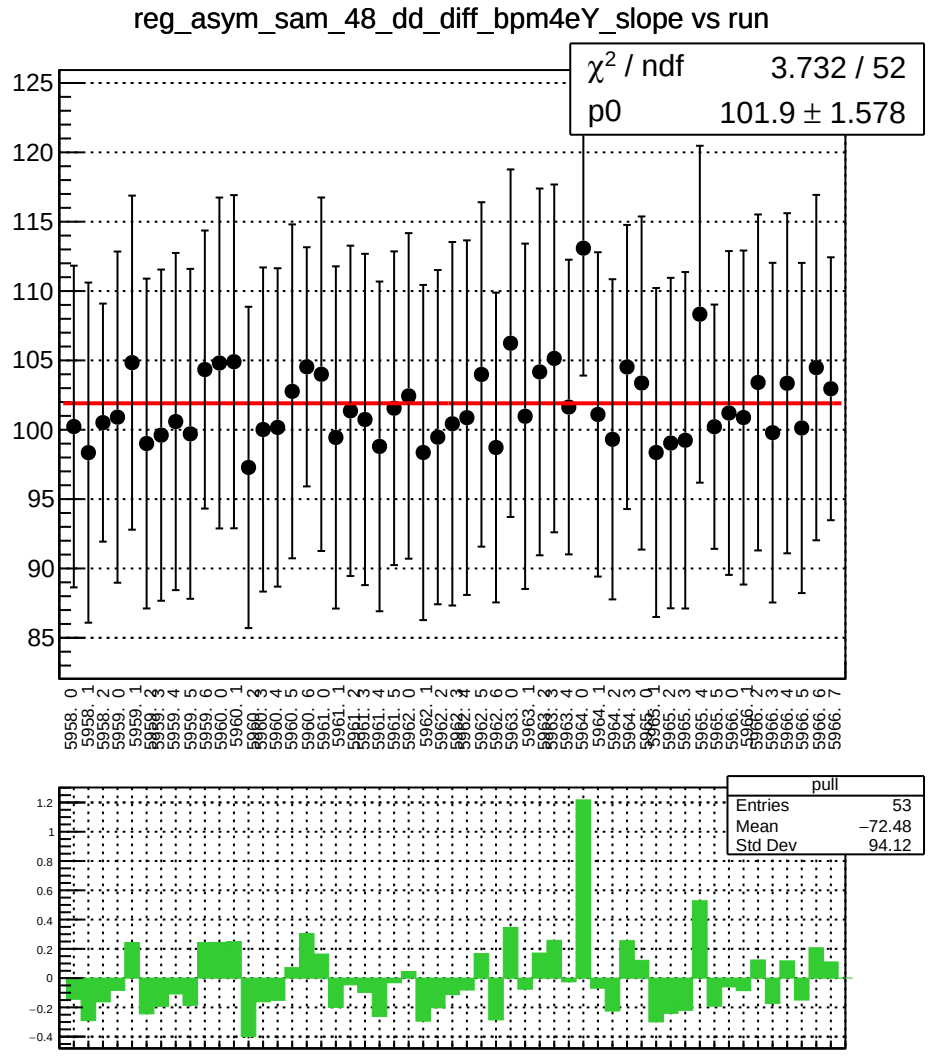

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.853 / 52
p0 −48.11 ± 3.221
pull
Entries 53
Mean 117.6
Std Dev 95.25

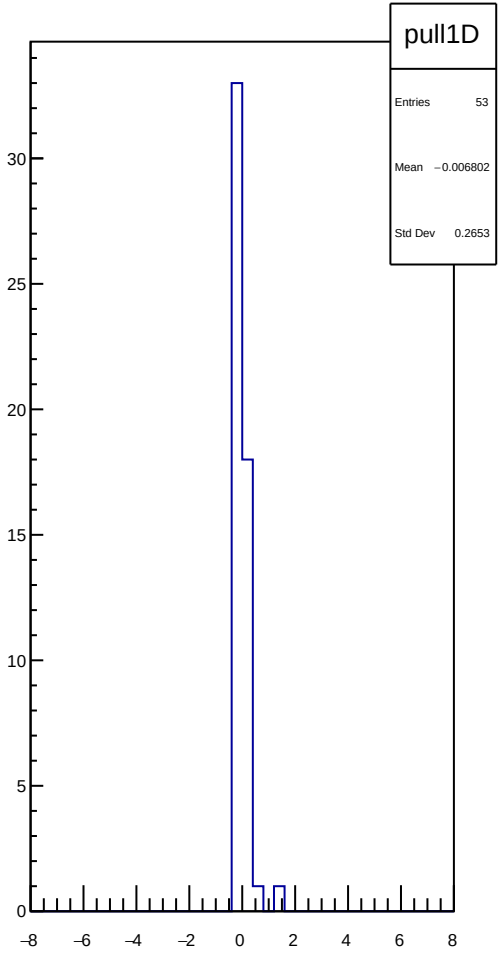

pull1D
Entries 53
Mean 0.01188
Std Dev 0.2694

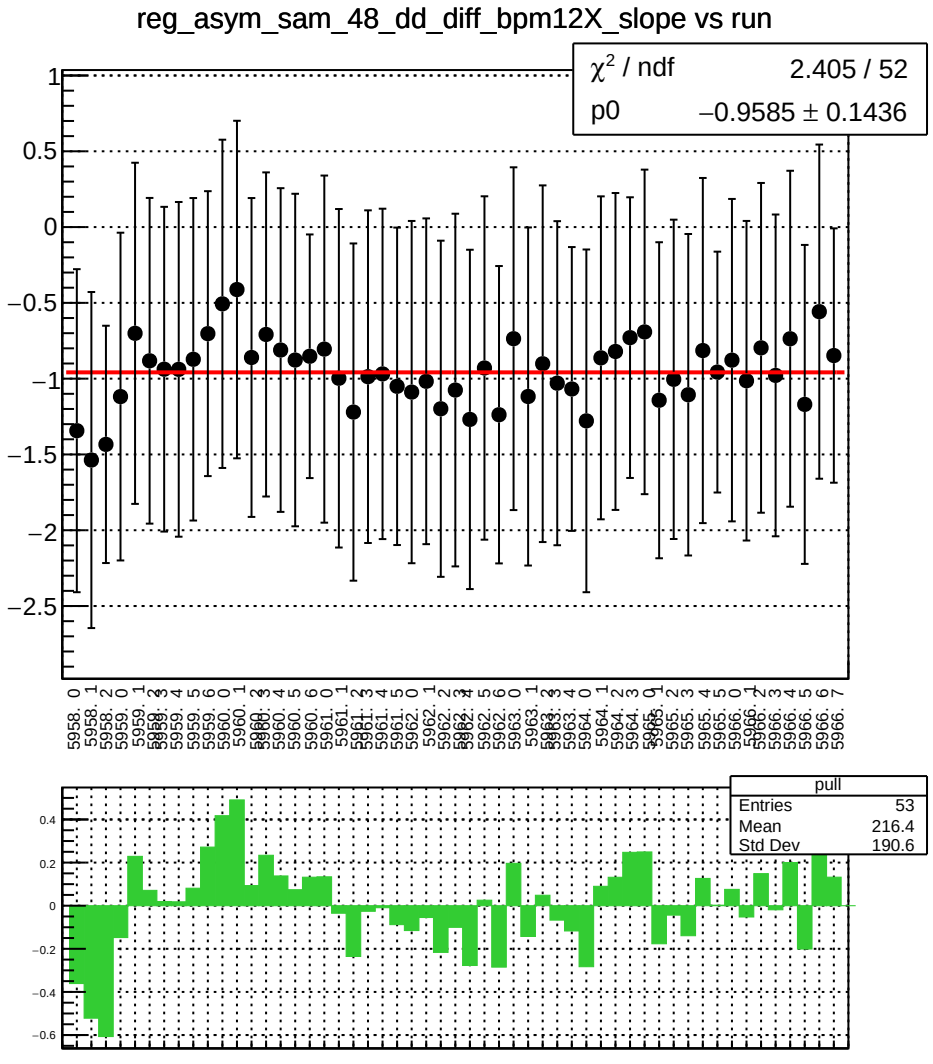

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.132 / 52
p0 27.52 ± 1.225
pull
Entries 53
Mean −106.7
Std Dev 127.8

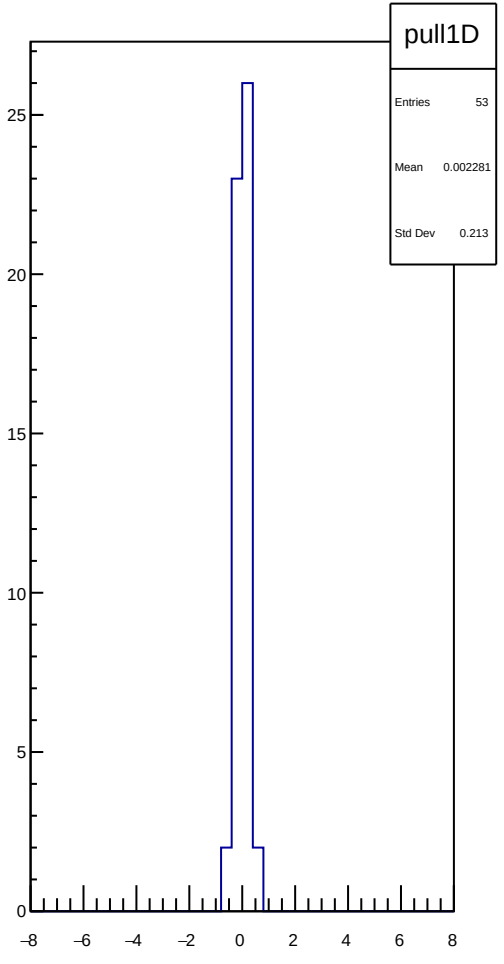

pull1D
Entries 53
Mean 0.003671
Std Dev 0.2005

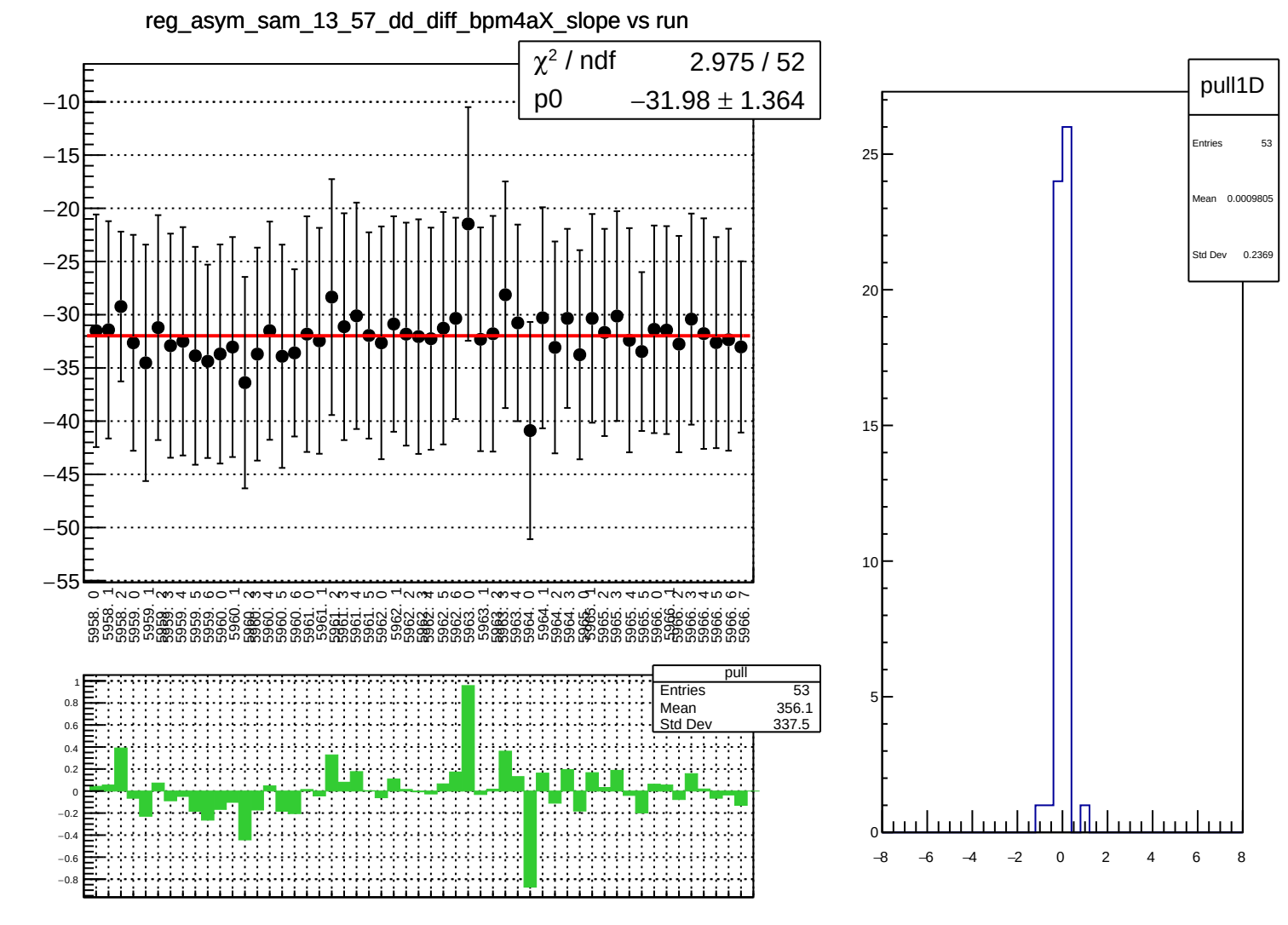

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.624 / 52
p0 −43.73 ± 3.413
pull
Entries 53
Mean 133.9
Std Dev 110.9
pull1D
Entries 53
Mean −0.0115
Std Dev 0.2612

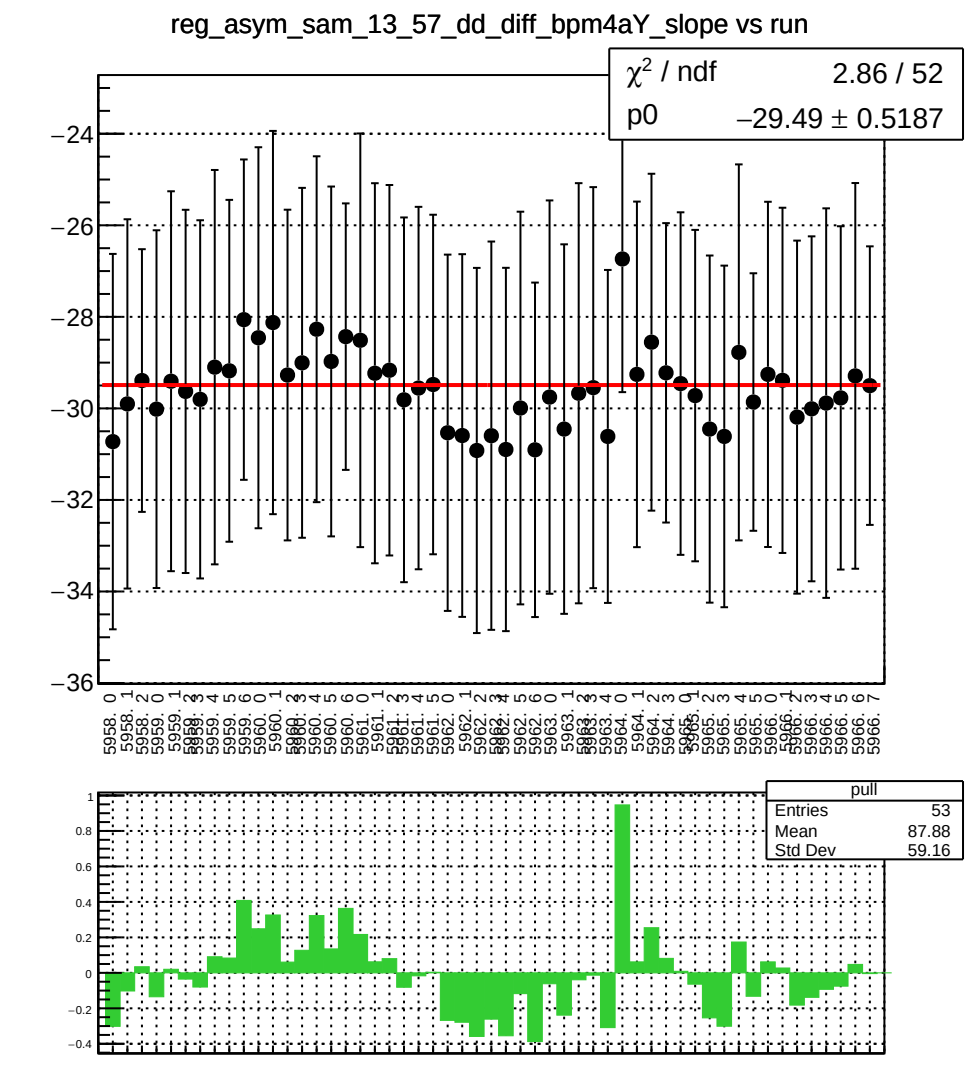

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.732 / 52
p0 101.9 ± 1.578
pull
Entries 53
Mean −72.48
Std Dev 94.12

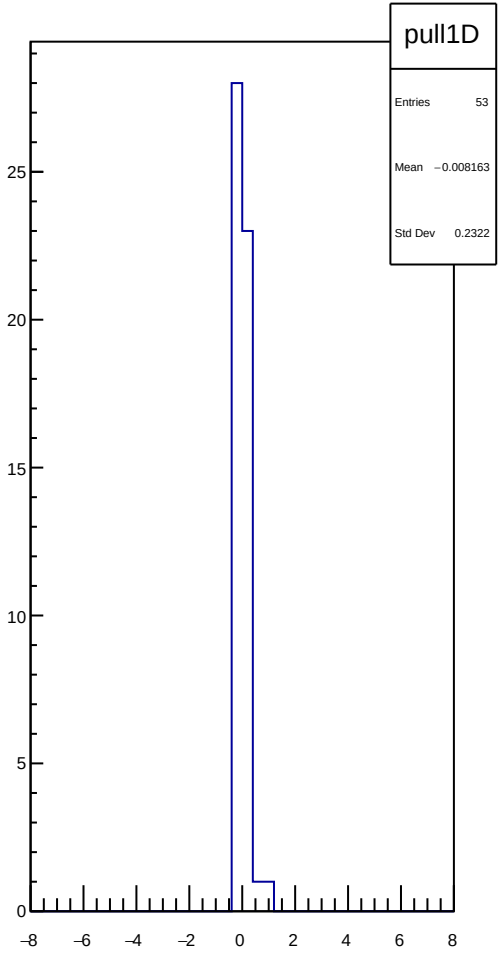

pull1D
Entries 53
Mean −0.006802
Std Dev 0.2653

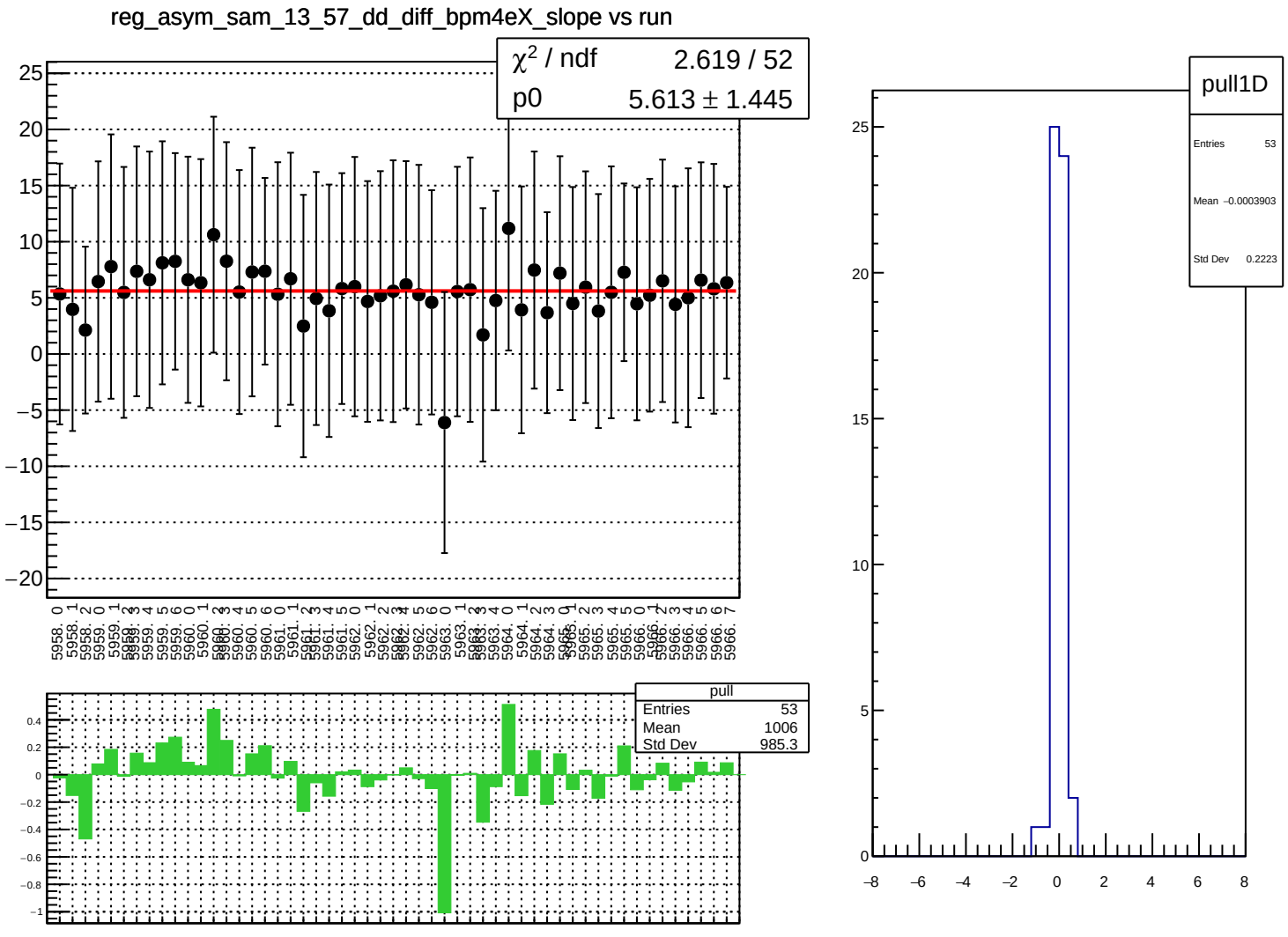

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.405 / 52
p0 −0.9585 ± 0.1436
pull
Entries 53
Mean 216.4
Std Dev 190.6

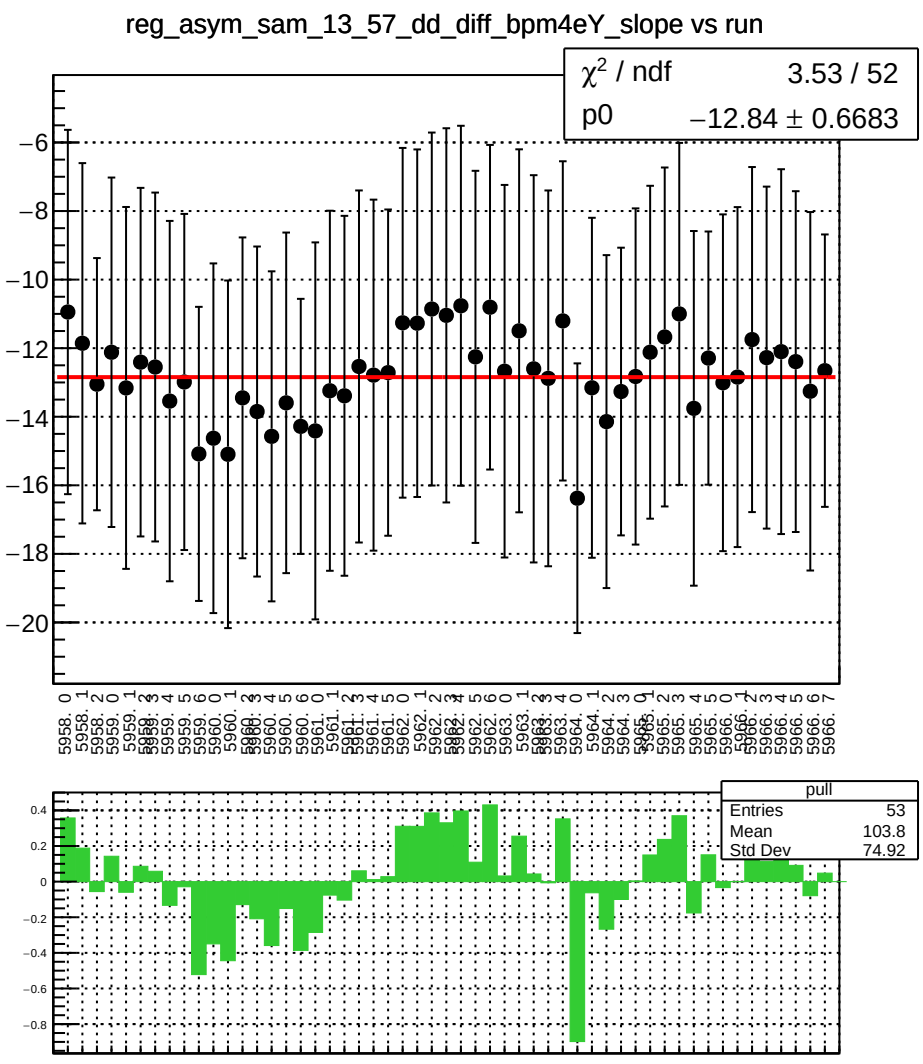

pull1D
Entries 53
Mean 0.002281
Std Dev 0.213

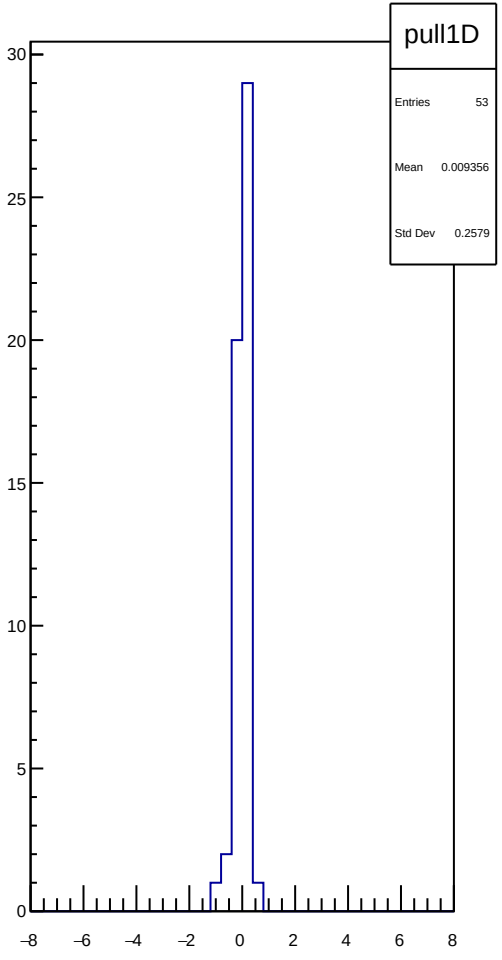

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.975 / 52
p0 −31.98 ± 1.364
pull
Entries 53
Mean 356.1
Std Dev 337.5
pull1D
Entries 53
Mean 0.0009805
Std Dev 0.2369

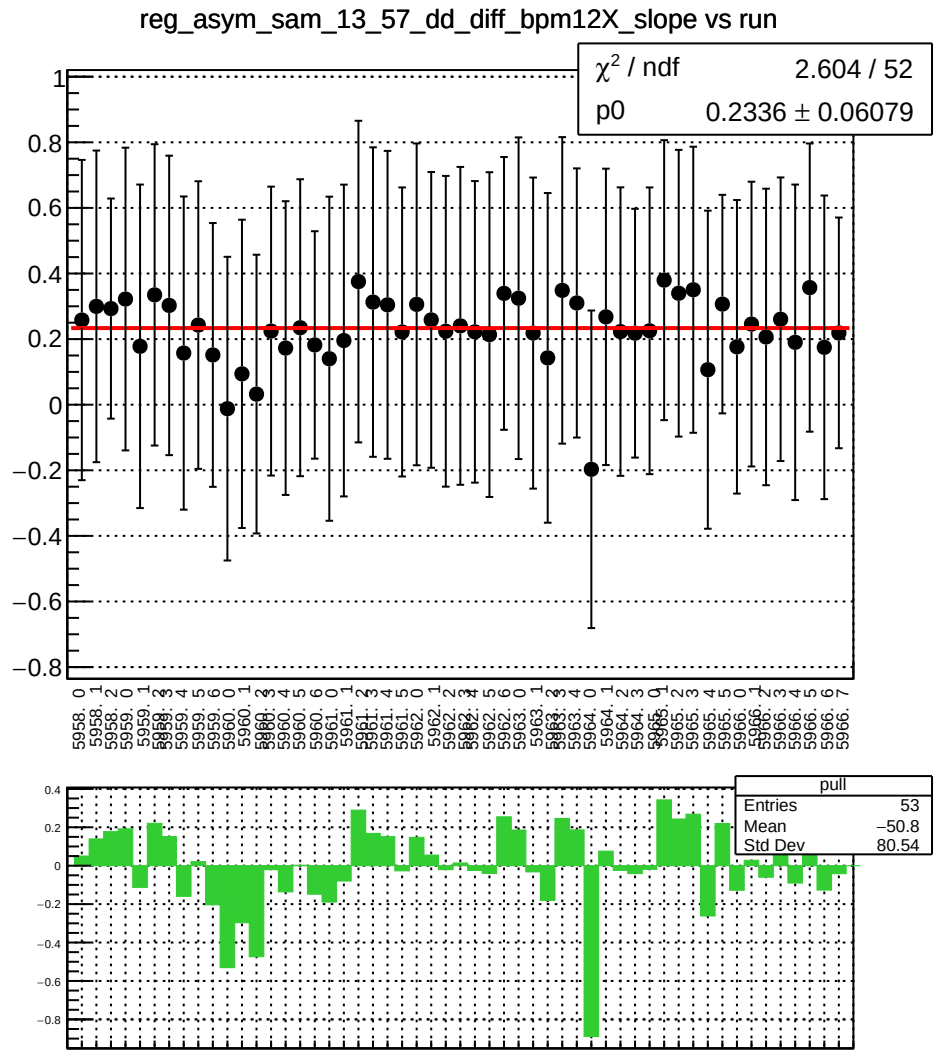

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.86 / 52
p0 −29.49 ± 0.5187
pull
Entries 53
Mean 87.88
Std Dev 59.16

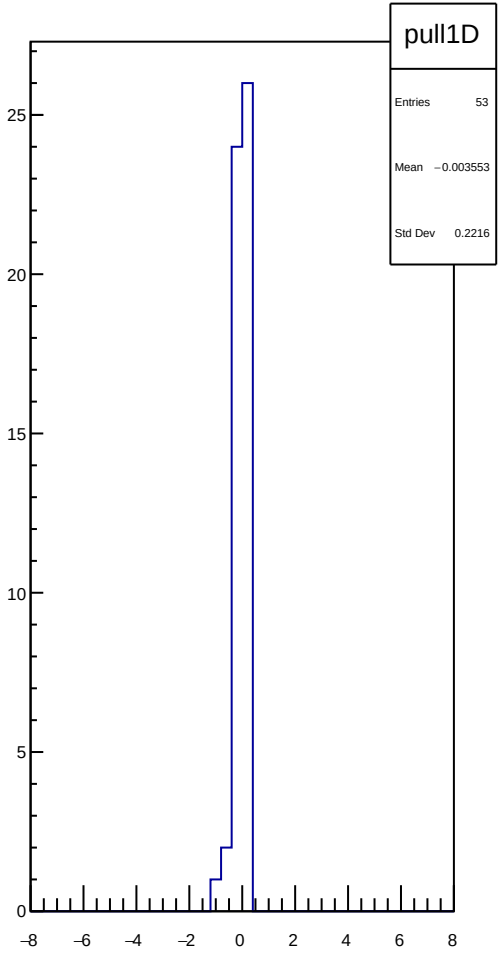

pull1D
Entries 53
Mean −0.008163
Std Dev 0.2322

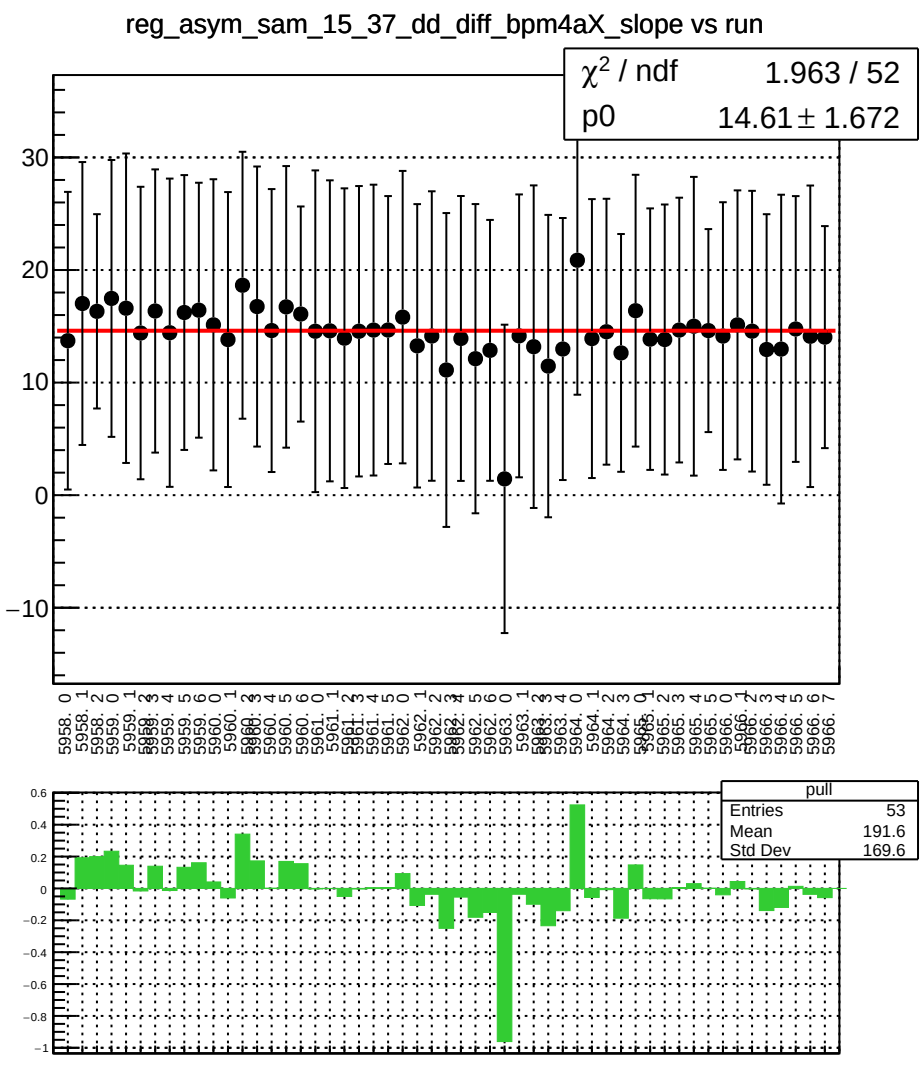

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.619 / 52
p0 5.613 ± 1.445
pull
Entries 53
Mean 1006
Std Dev 985.3
pull1D
Entries 53
Mean −0.0003903
Std Dev 0.2223

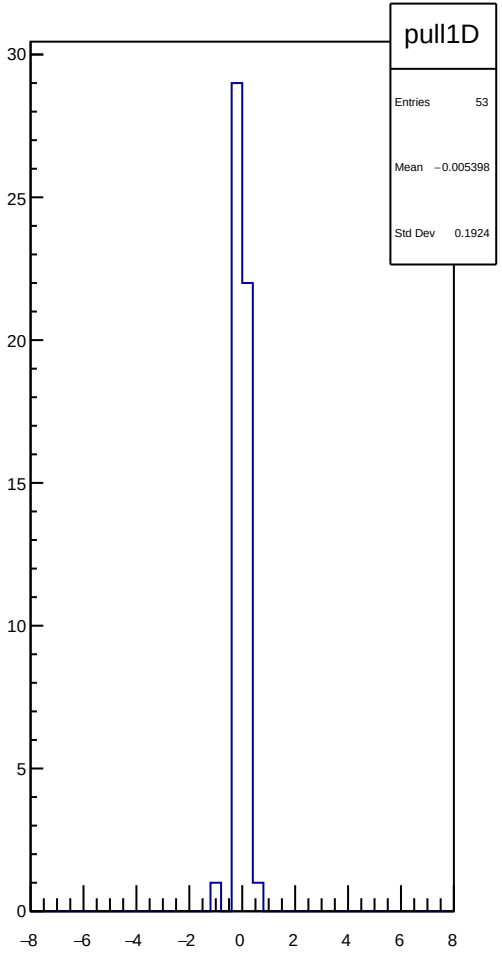

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.53 / 52
p0 −12.84 ± 0.6683
pull
Entries 53
Mean 103.8
Std Dev 74.92

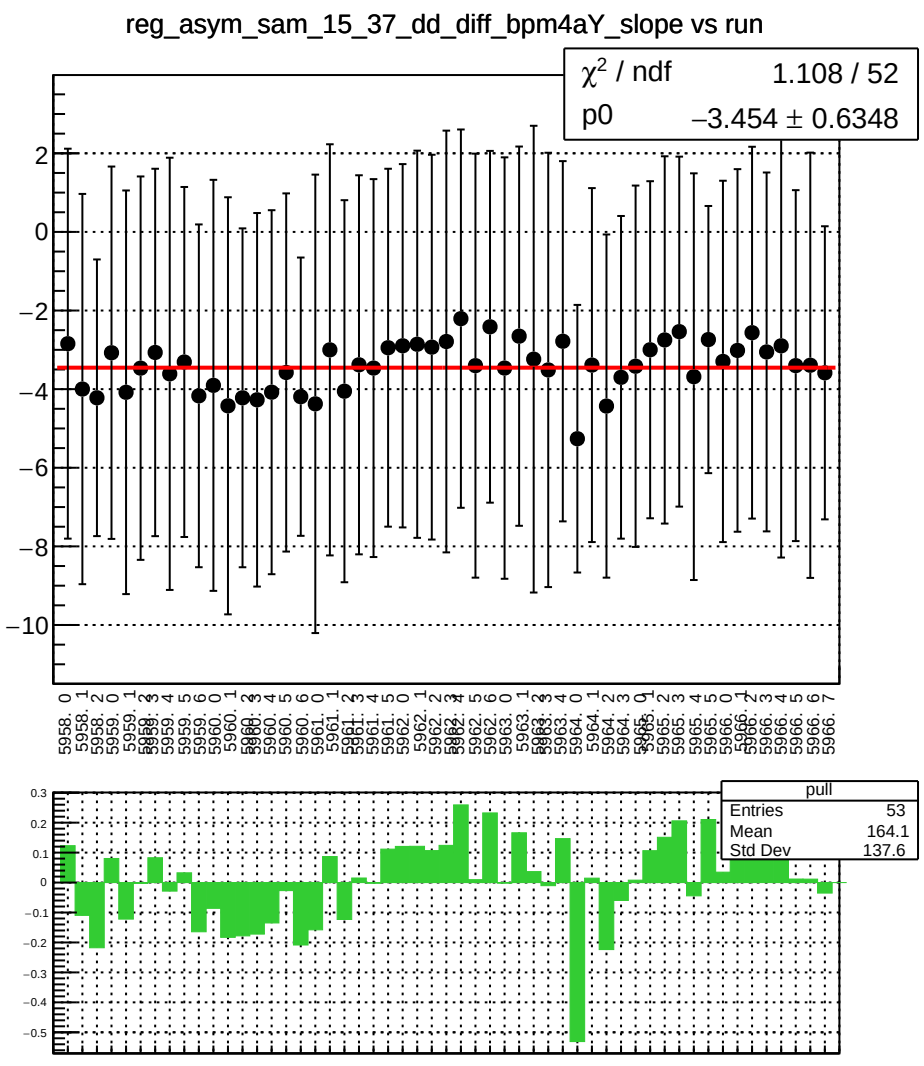

pull1D
Entries 53
Mean 0.009356
Std Dev 0.2579

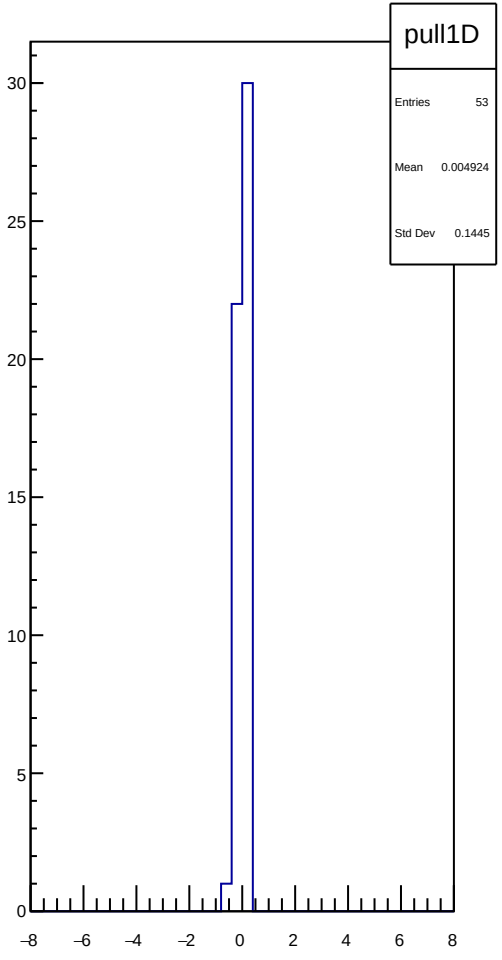

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 2.604 / 52
p0 0.2336 ± 0.06079
pull
Entries 53
Mean −50.8
Std Dev 80.54

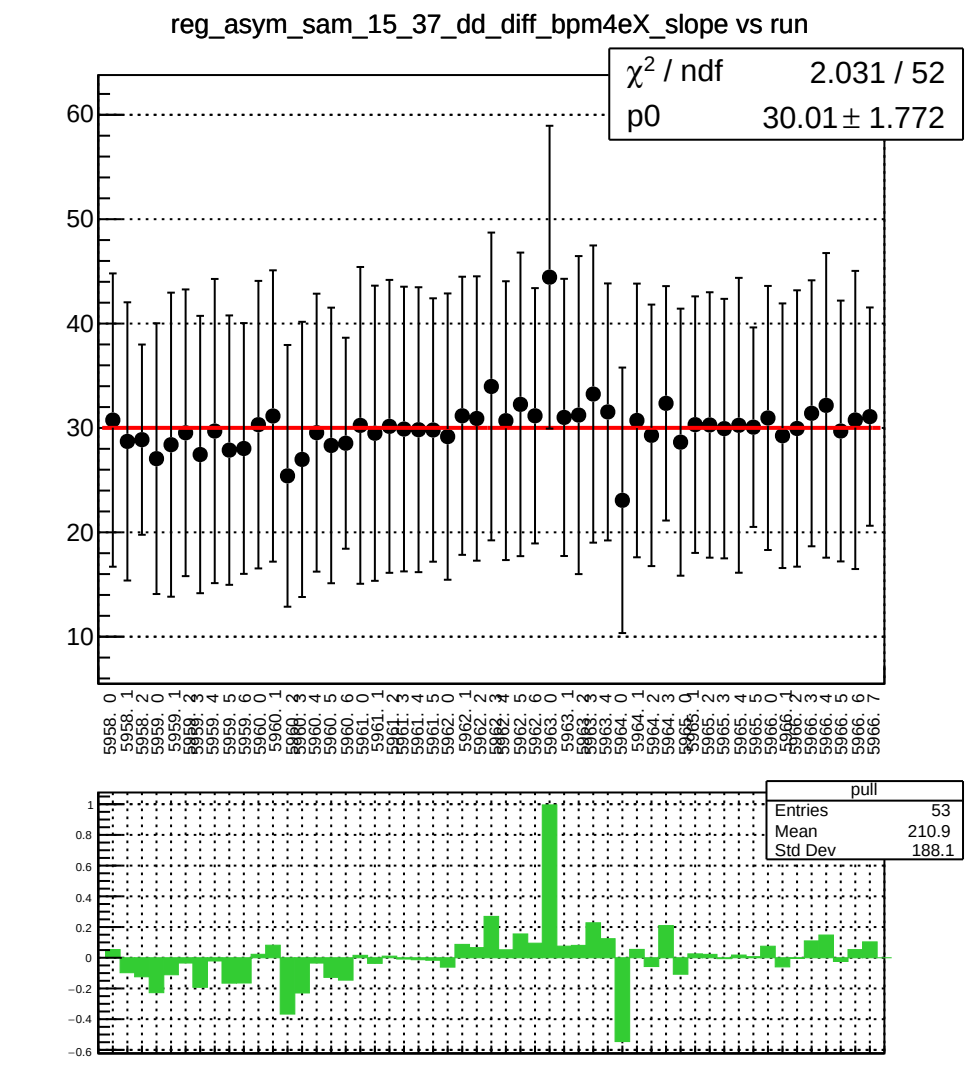

pull1D
Entries 53
Mean −0.003553
Std Dev 0.2216

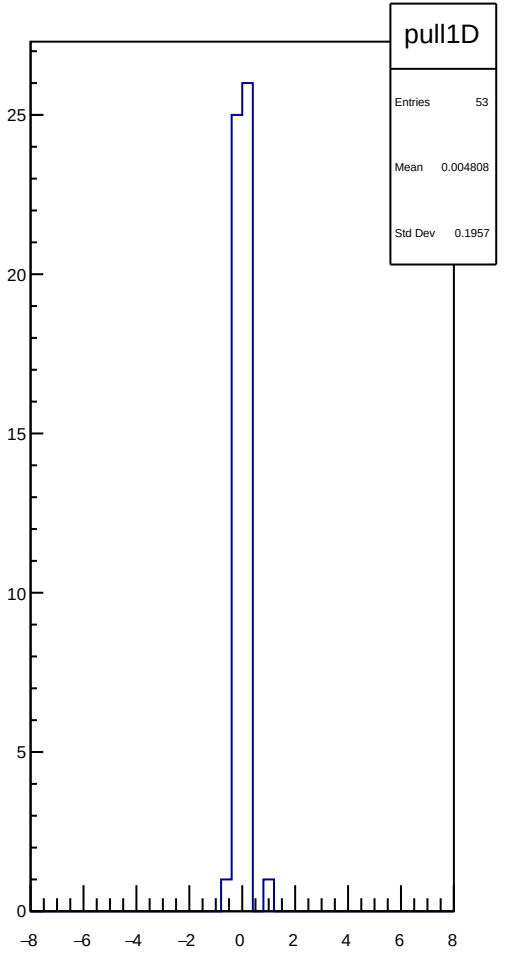

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.963 / 52
p0 14.61 ± 1.672
pull
Entries 53
Mean 191.6
Std Dev 169.6

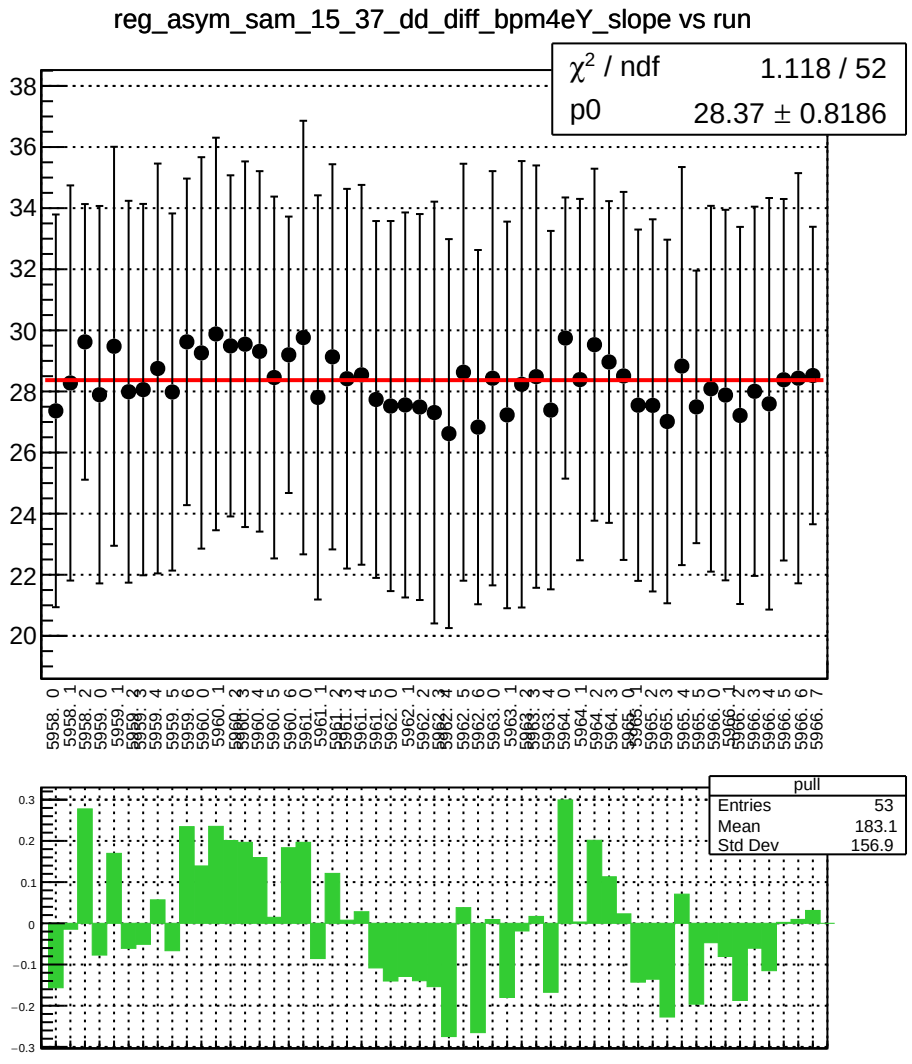

pull1D
Entries 53
Mean −0.005398
Std Dev 0.1924

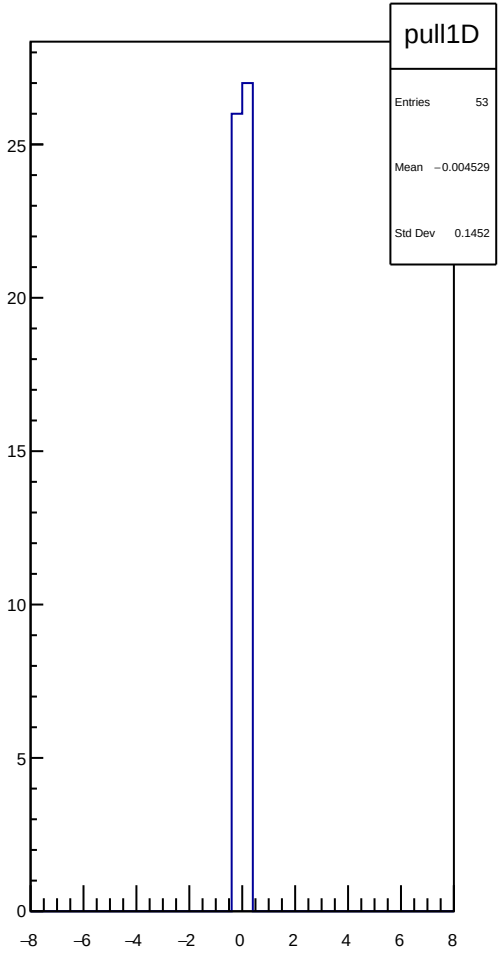

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.108 / 52
p0 −3.454 ± 0.6348
pull
Entries 53
Mean 164.1
Std Dev 137.6

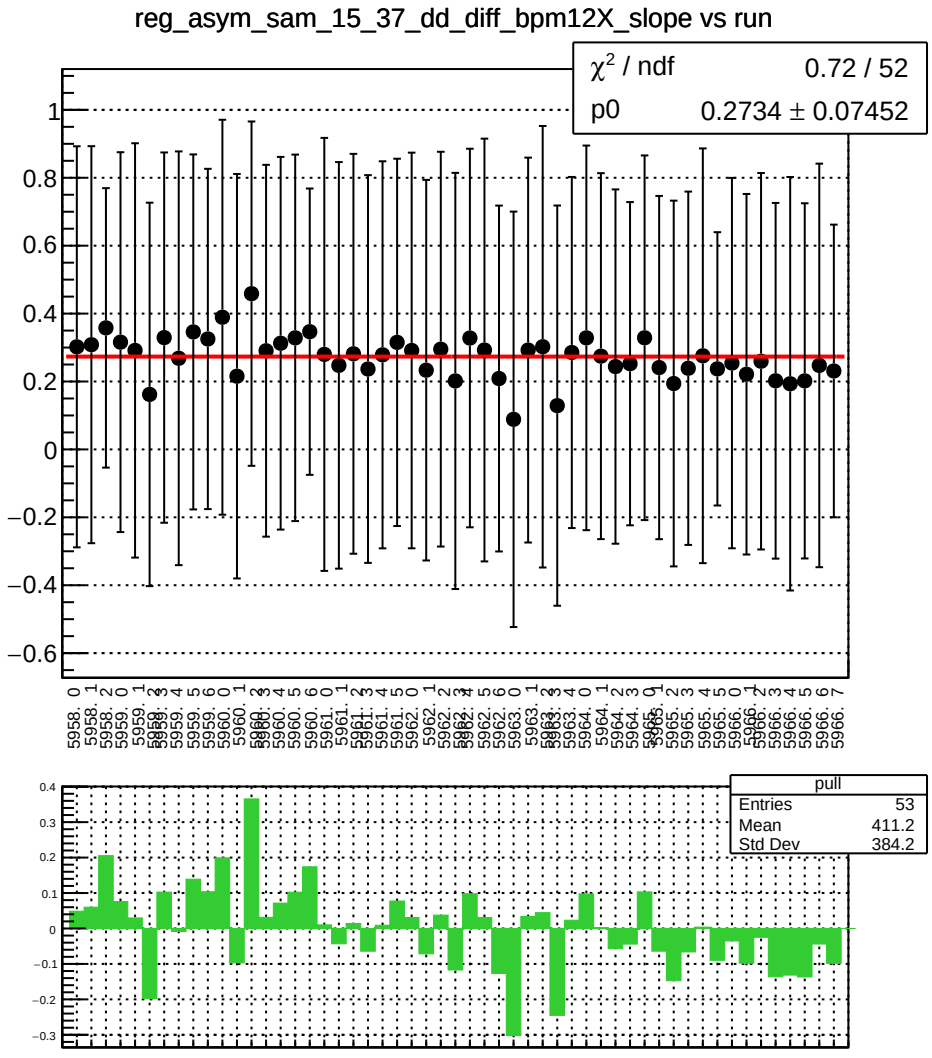

pull1D
Entries 53
Mean 0.004924
Std Dev 0.1445

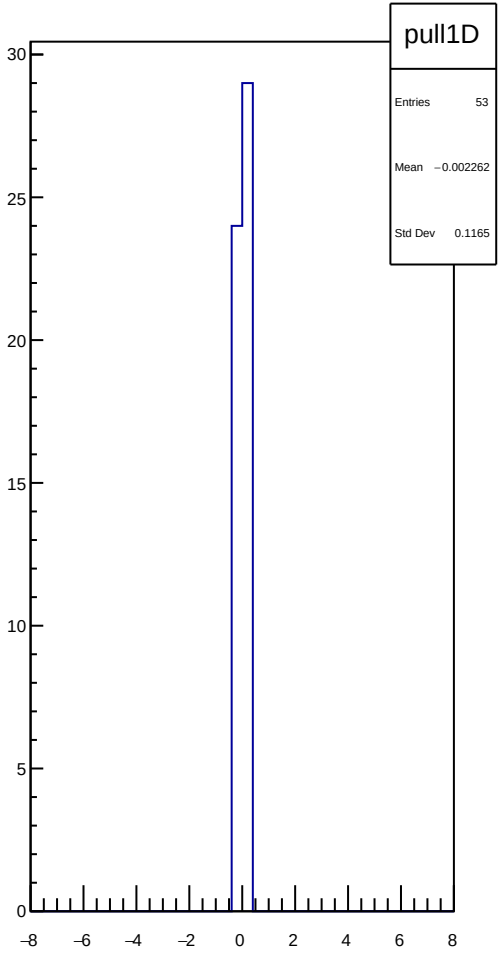

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.031 / 52
p0 30.01 ± 1.772
pull
Entries 53
Mean 210.9
Std Dev 188.1

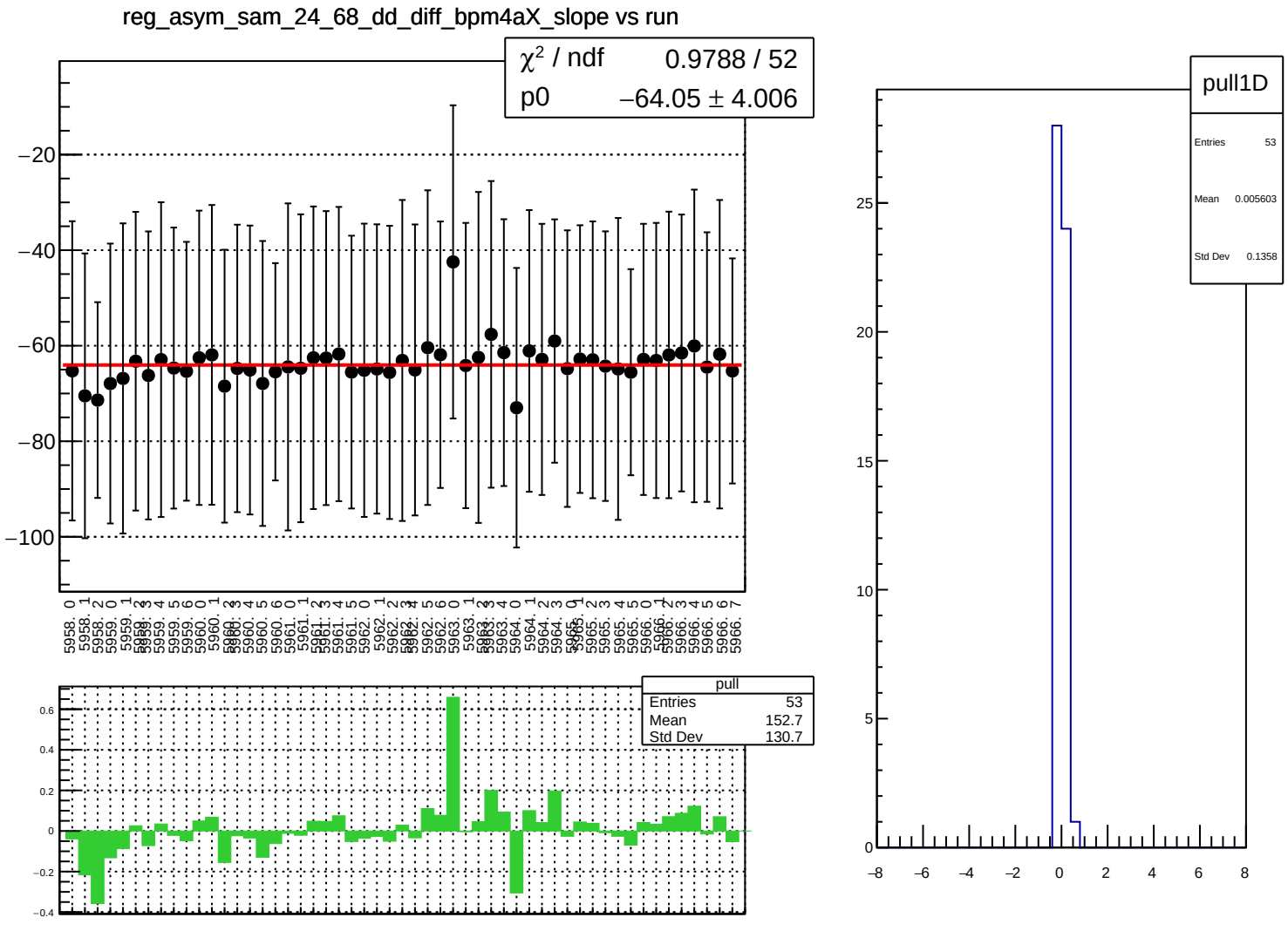

pull1D
Entries 53
Mean 0.004808
Std Dev 0.1957

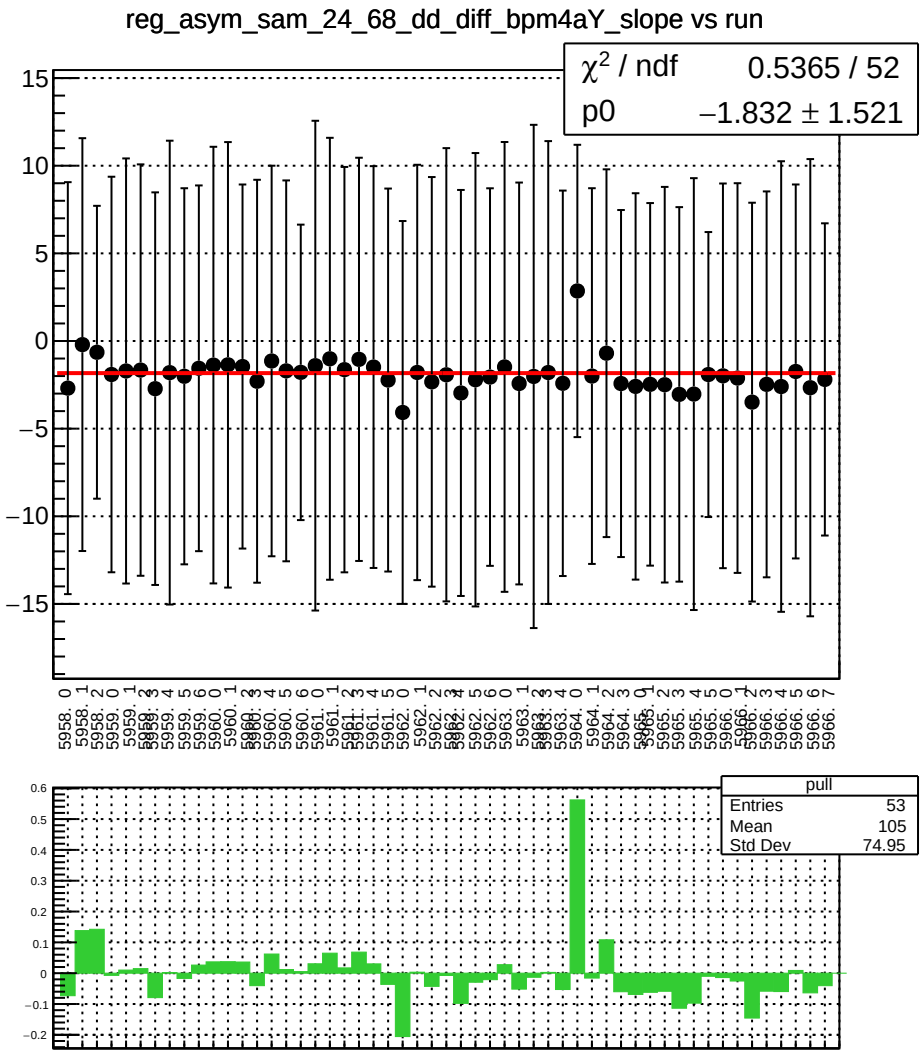

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.118 / 52
p0 28.37 ± 0.8186
pull
Entries 53
Mean 183.1
Std Dev 156.9

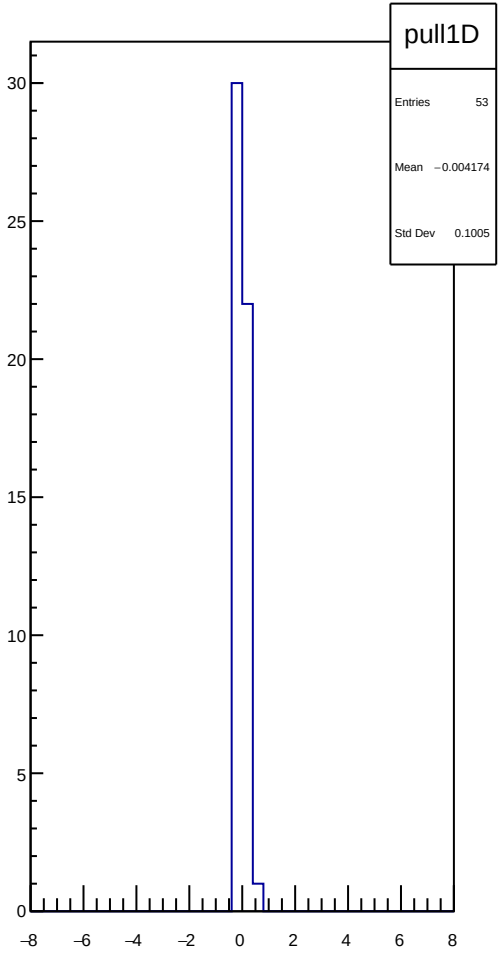

pull1D
Entries 53
Mean −0.004529
Std Dev 0.1452

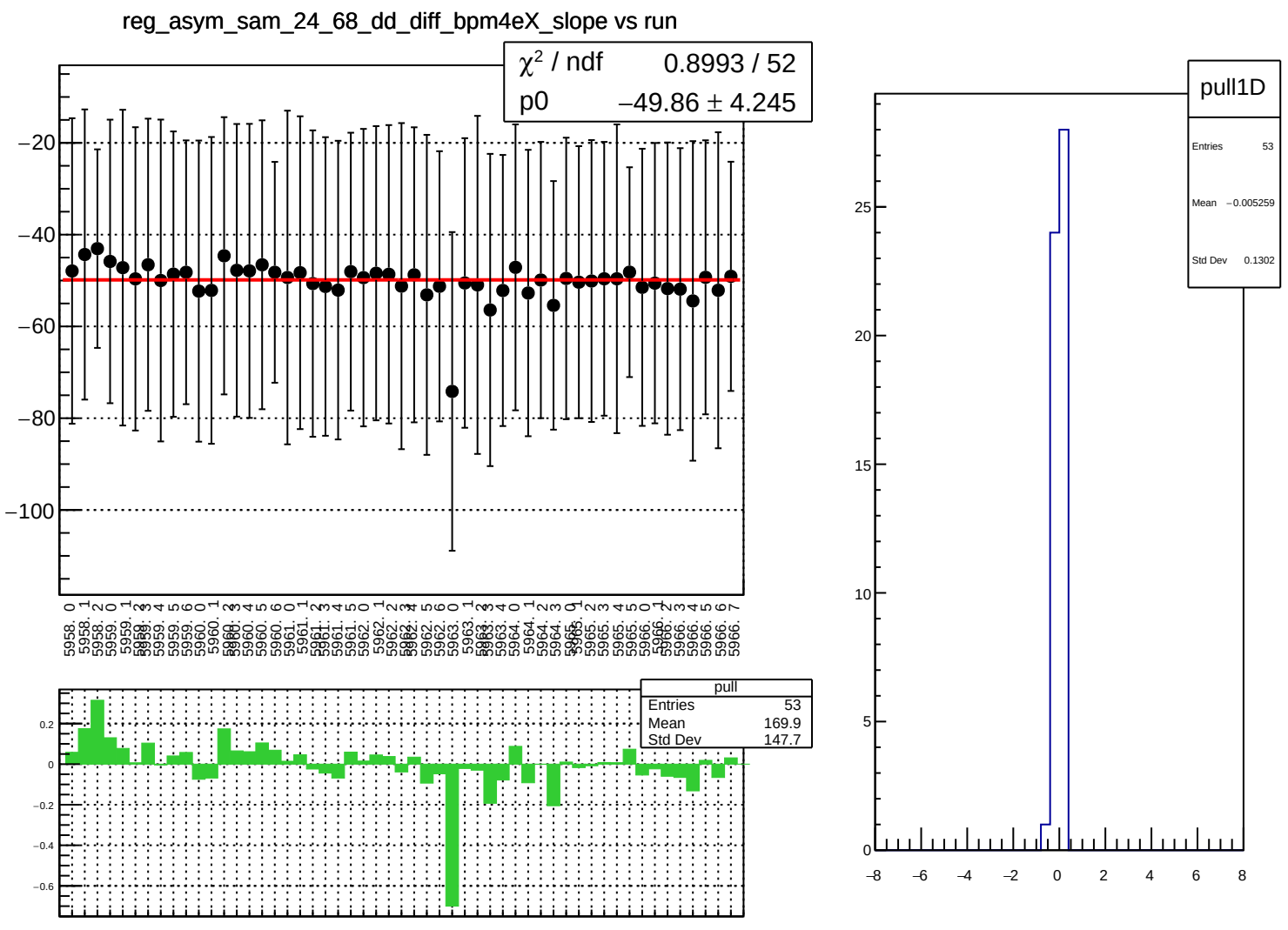

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.72 / 52
p0 0.2734 ± 0.07452
pull
Entries 53
Mean 411.2
Std Dev 384.2

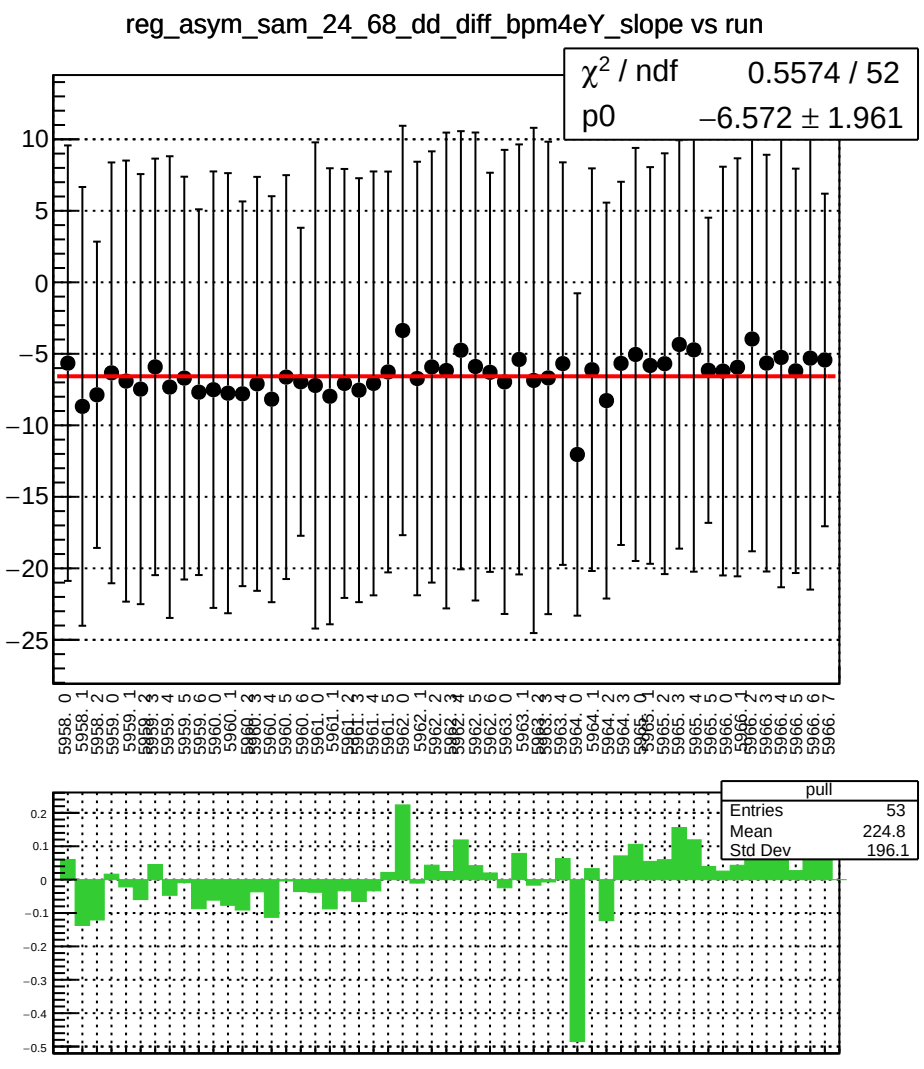

pull1D
Entries 53
Mean −0.002262
Std Dev 0.1165

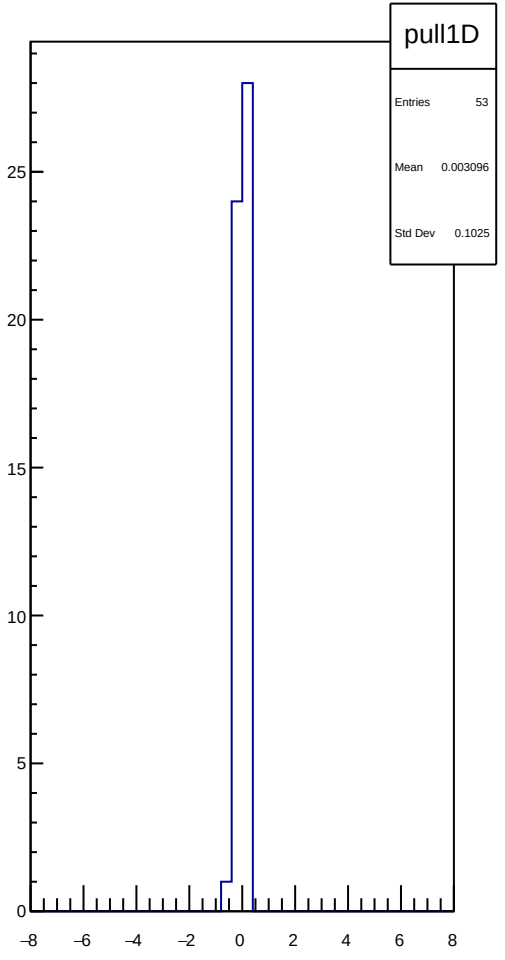

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.9788 / 52
p0 −64.05 ± 4.006
pull
Entries 53
Mean 152.7
Std Dev 130.7
pull1D
Entries 53
Mean 0.005603
Std Dev 0.1358

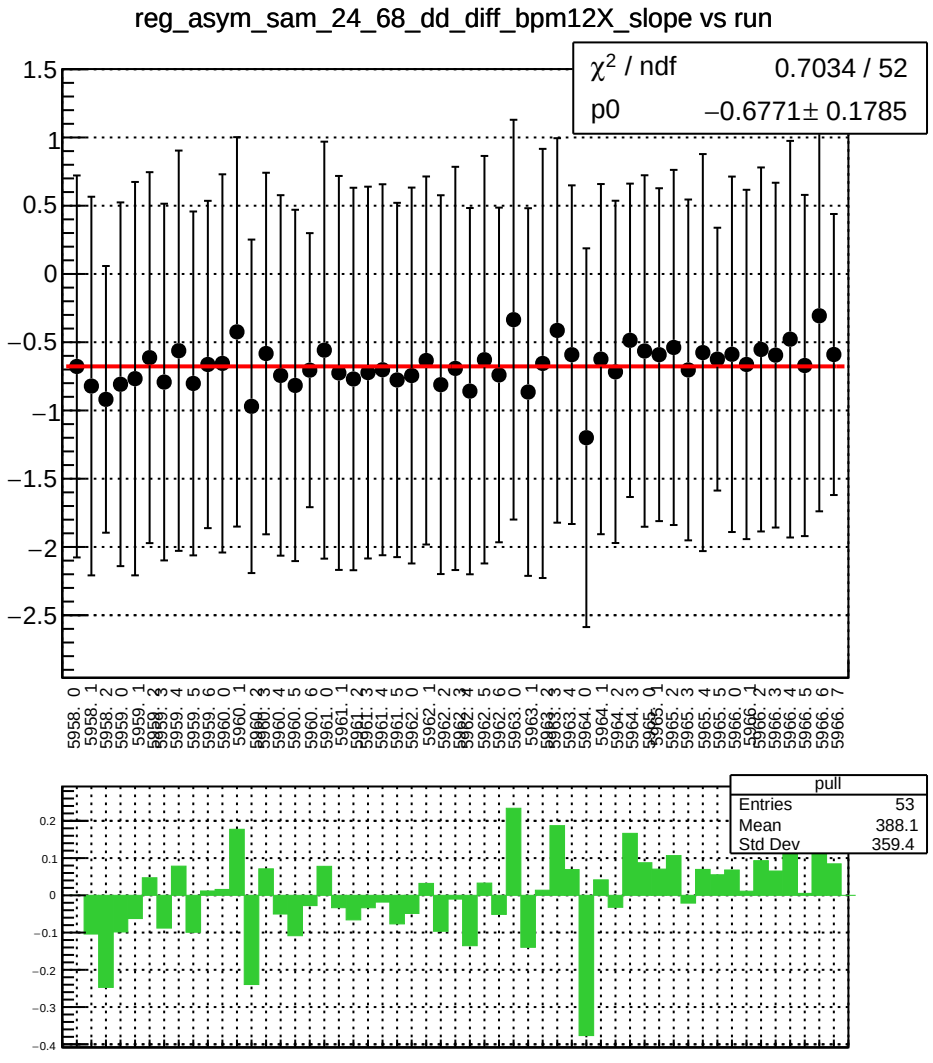

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5365 / 52
p0 −1.832 ± 1.521
pull
Entries 53
Mean 105
Std Dev 74.95

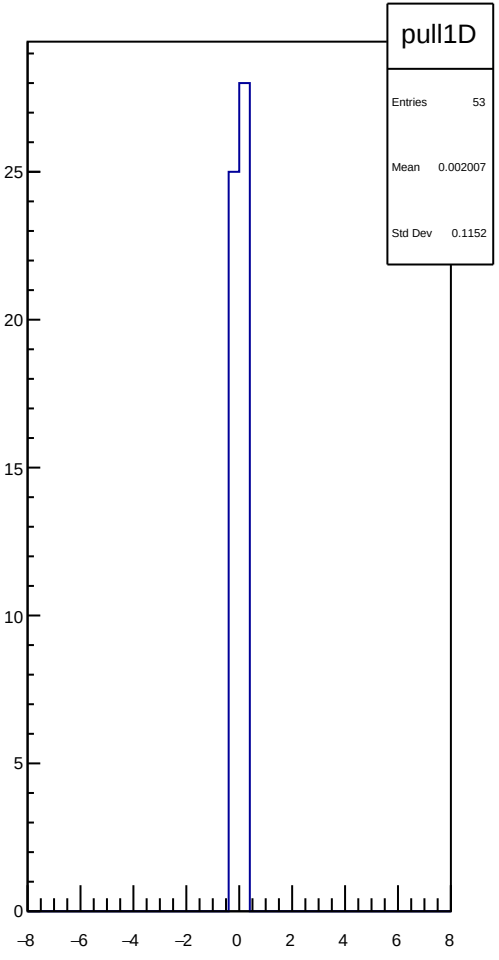

pull1D
Entries 53
Mean −0.004174
Std Dev 0.1005

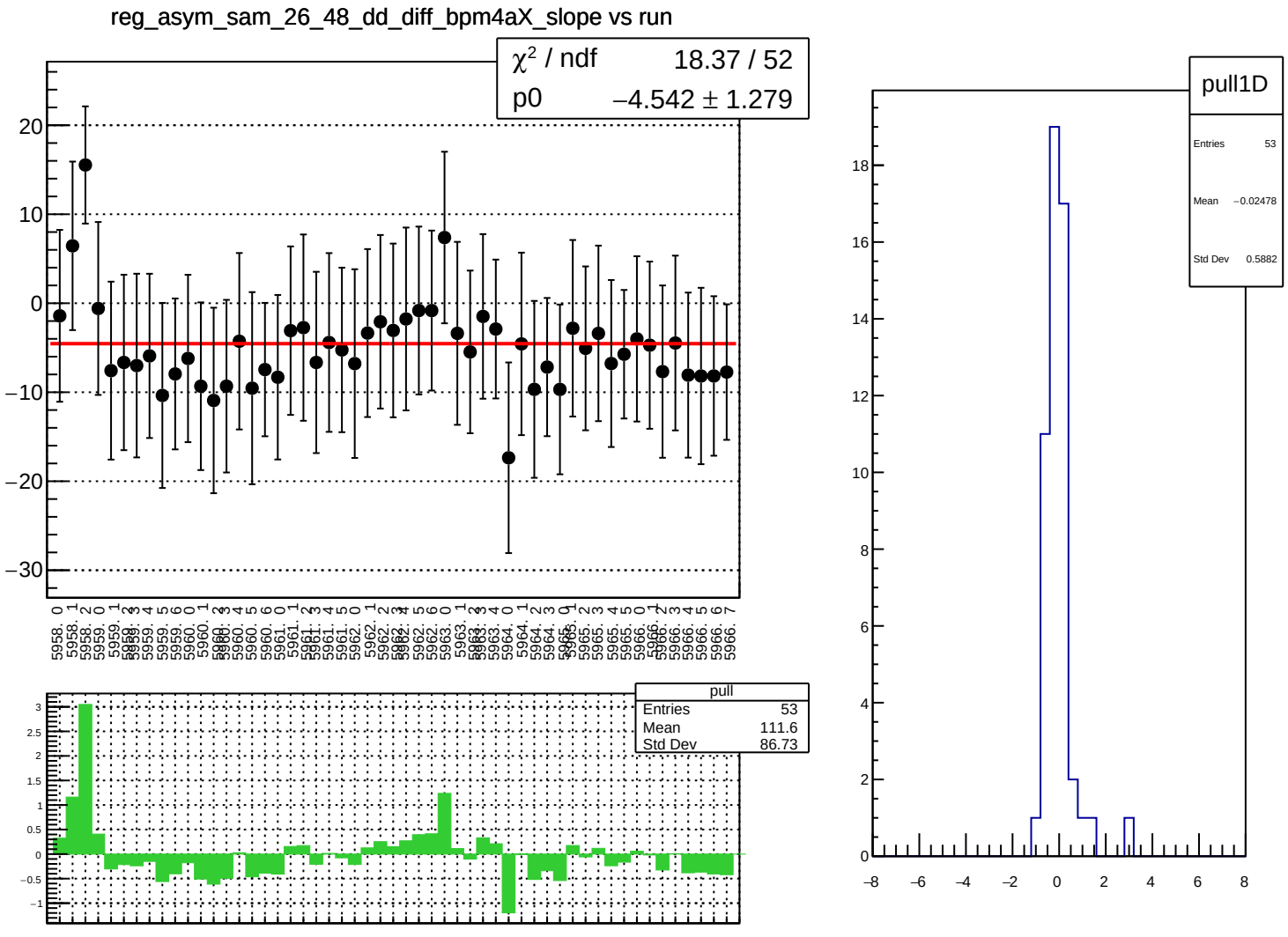

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8993 / 52
p0 −49.86 ± 4.245
−20
−40
−60
−80
−100
pull
Entries 53
Mean 169.9
Std Dev 147.7
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 53
Mean −0.005259
Std Dev 0.1302
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

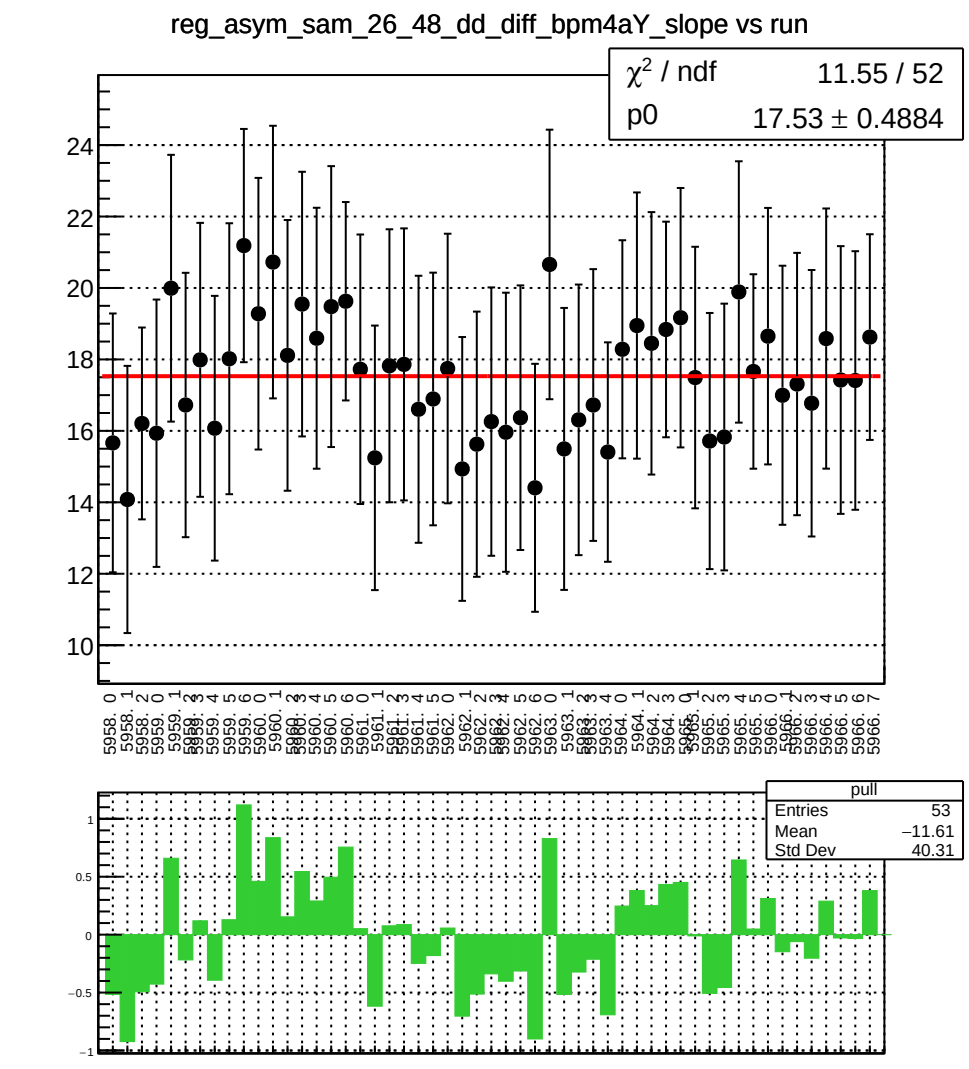

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5574 / 52
p0 −6.572 ± 1.961
pull
Entries 53
Mean 224.8
Std Dev 196.1

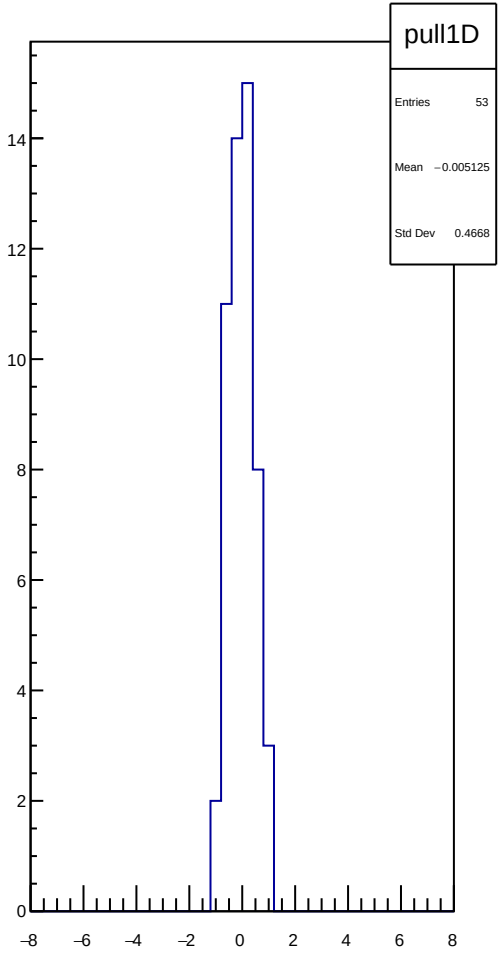

pull1D
Entries 53
Mean 0.003096
Std Dev 0.1025

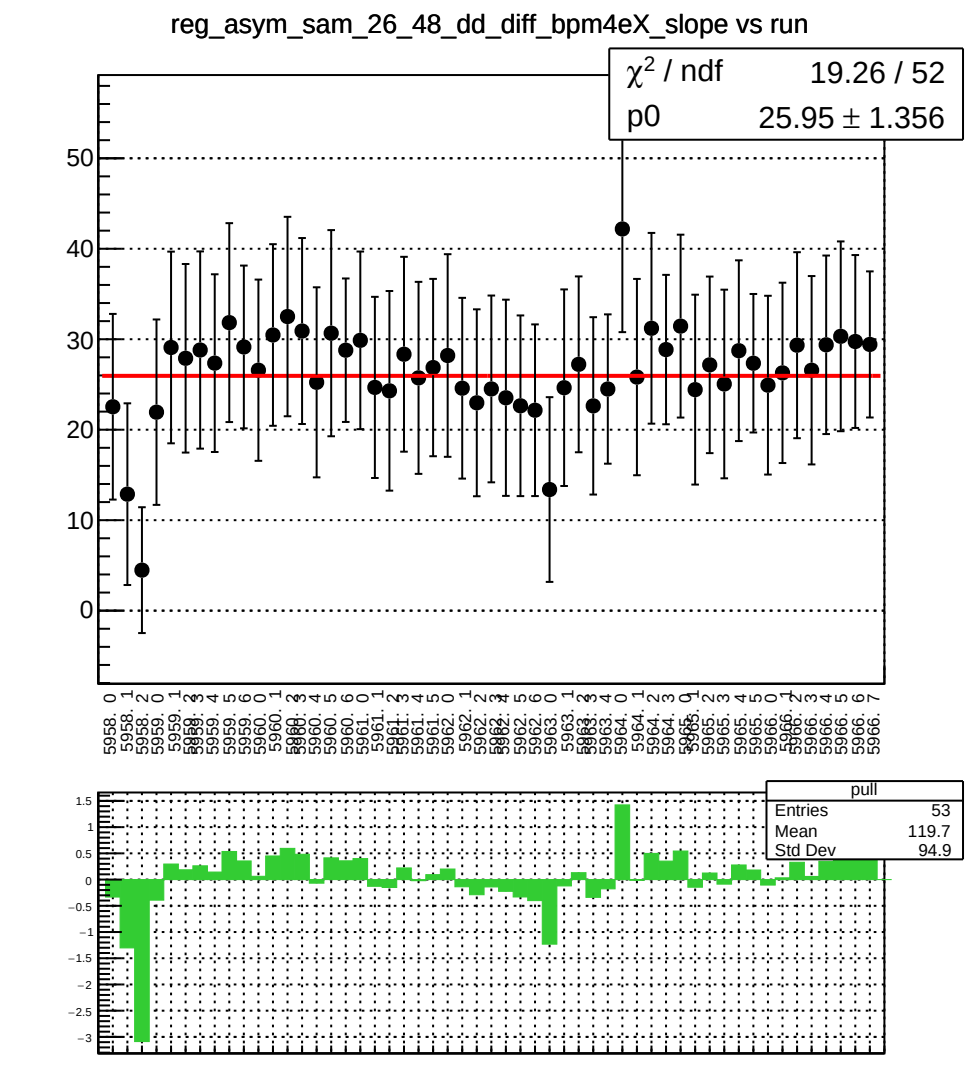

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7034 / 52
p0 −0.6771± 0.1785
pull
Entries 53
Mean 388.1
Std Dev 359.4

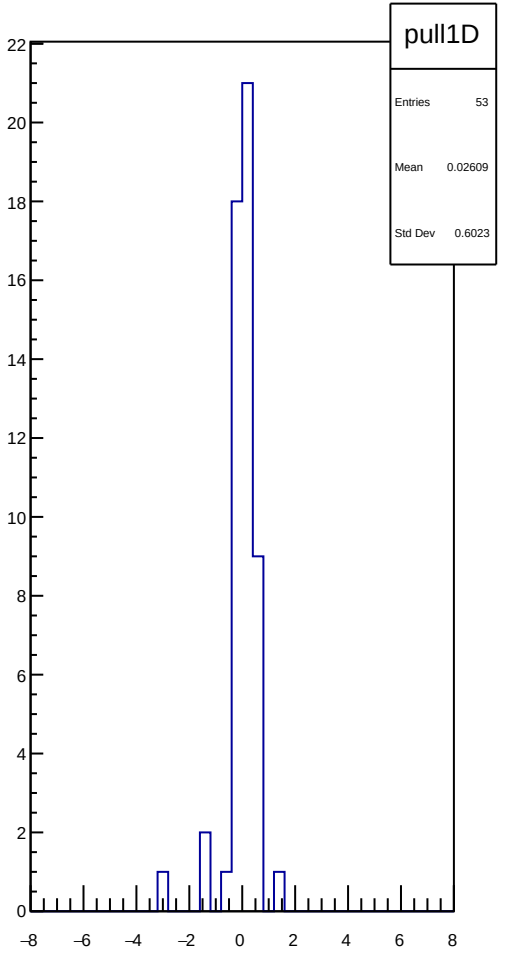

pull1D
Entries 53
Mean 0.002007
Std Dev 0.1152

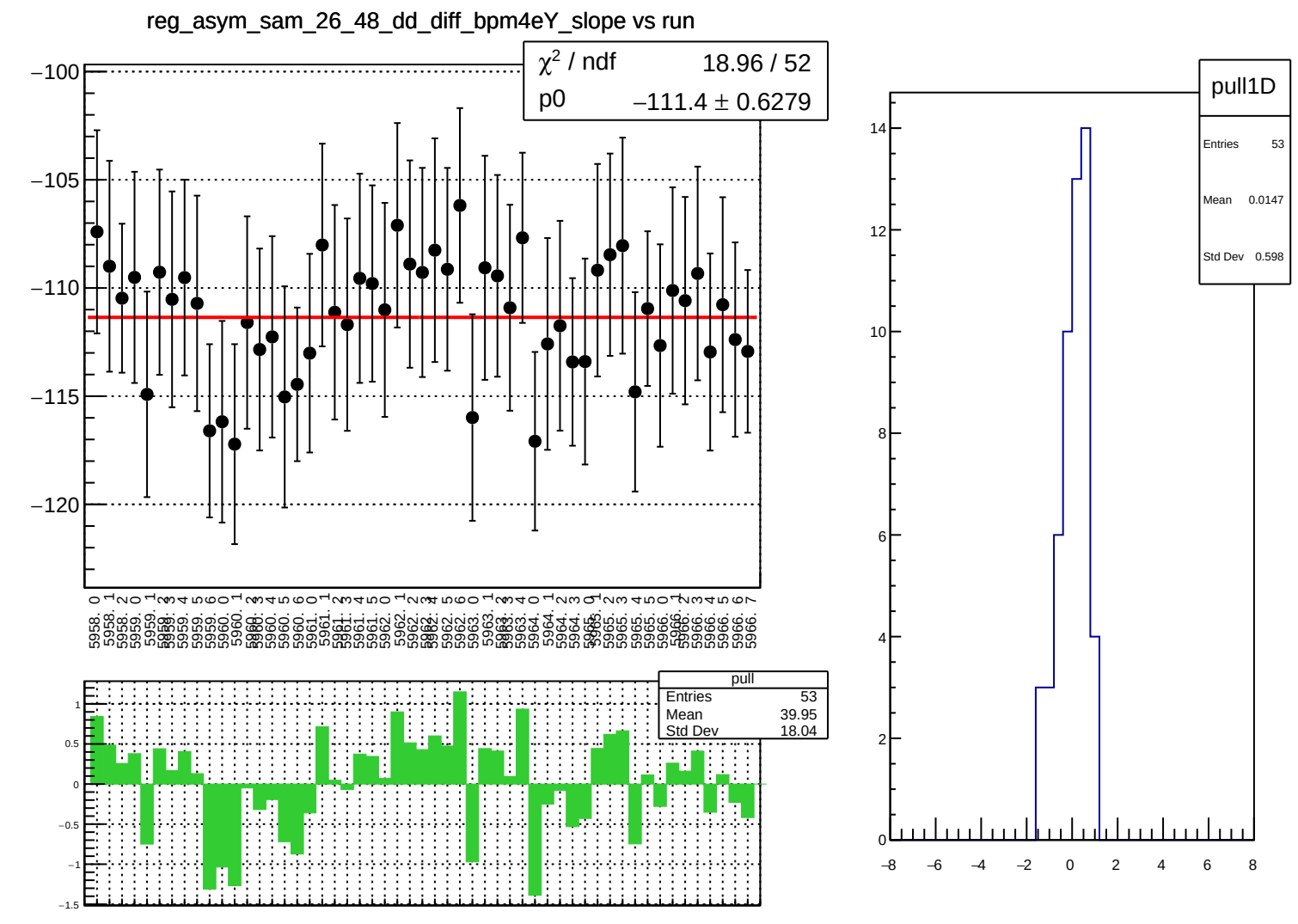

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.37 / 52
p0 −4.542 ± 1.279
pull
Entries 53
Mean 111.6
Std Dev 86.73
pull1D
Entries 53
Mean −0.02478
Std Dev 0.5882

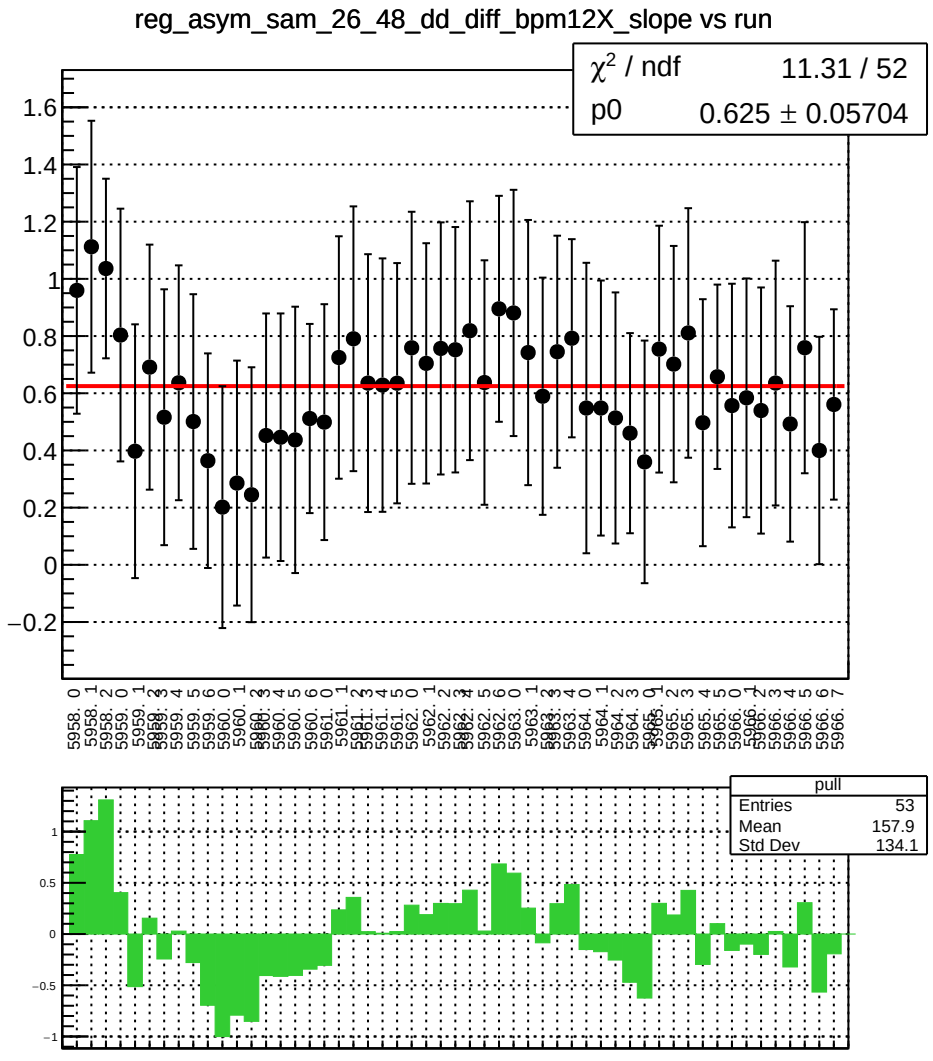

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.55 / 52
p0 17.53 ± 0.4884
pull
Entries 53
Mean −11.61
Std Dev 40.31

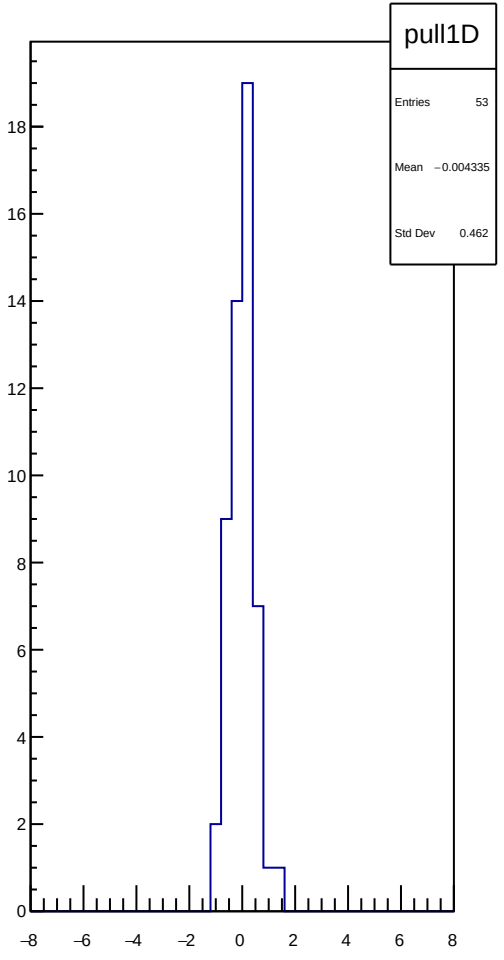

pull1D
Entries 53
Mean −0.005125
Std Dev 0.4668

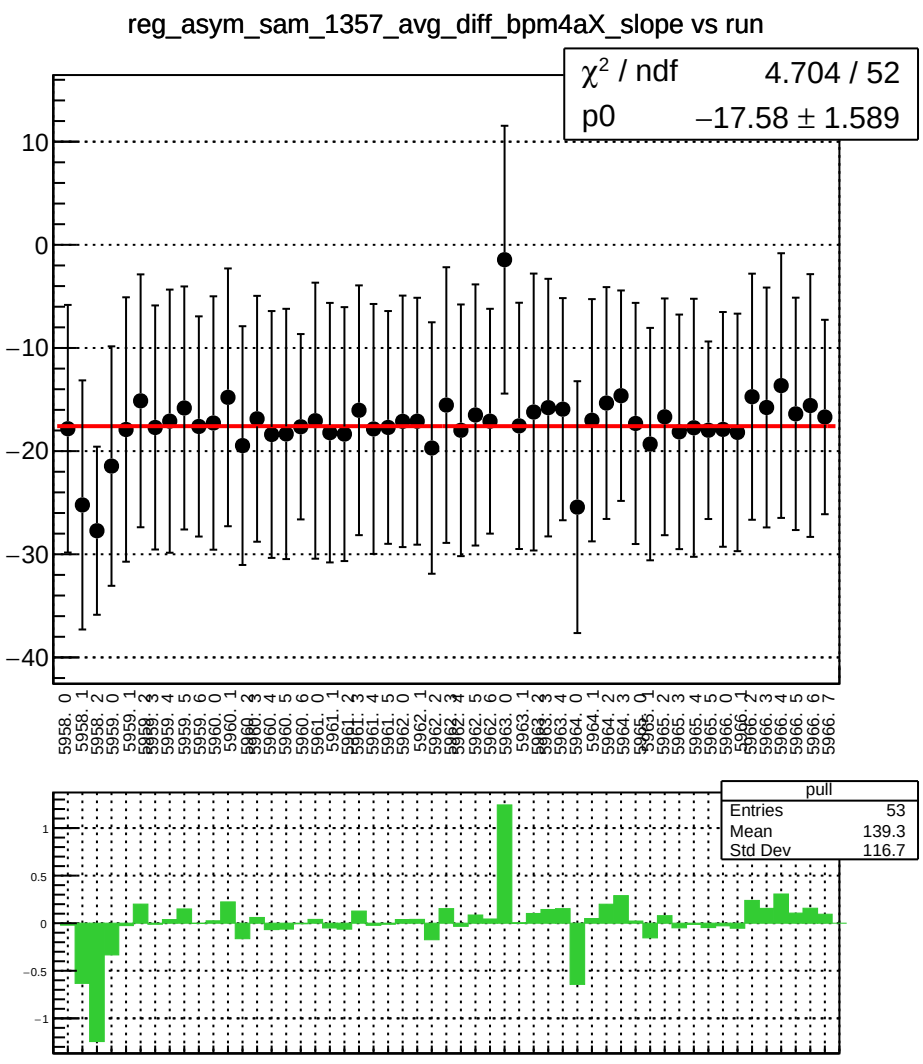

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.26 / 52
p0 25.95 ± 1.356
pull
Entries 53
Mean 119.7
Std Dev 94.9

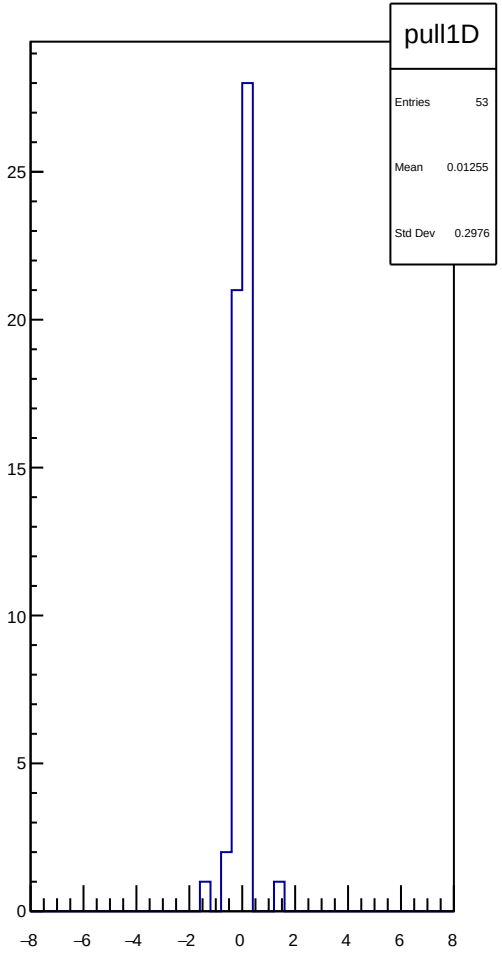

pull1D
Entries 53
Mean 0.02609
Std Dev 0.6023

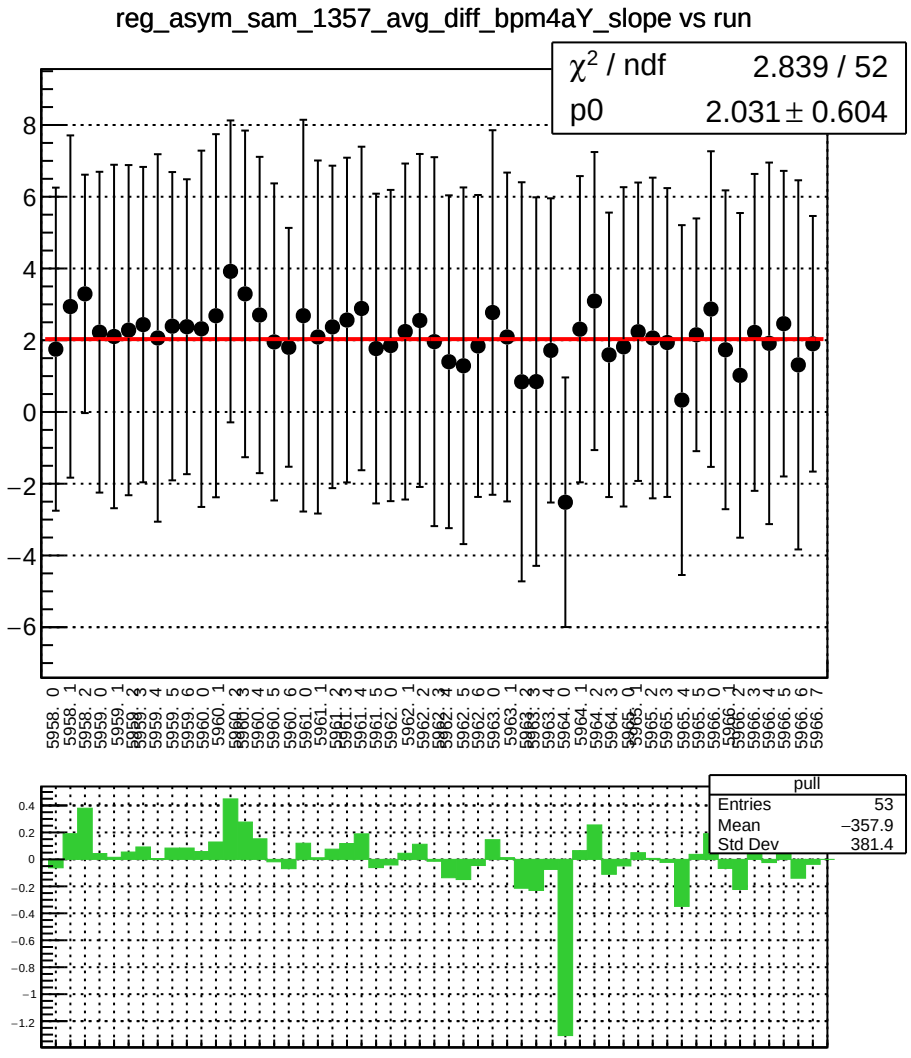

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.96 / 52
p0 −111.4 ± 0.6279
−100
−105
−110
−115
−120
pull
Entries 53
Mean 39.95
Std Dev 18.04
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 53
Mean 0.0147
Std Dev 0.598
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

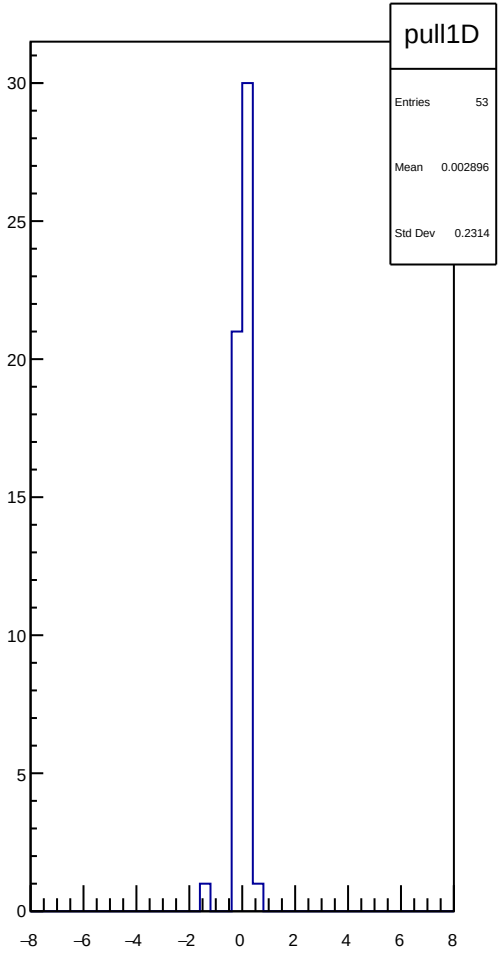

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 11.31 / 52
p0 0.625 ± 0.05704
pull
Entries 53
Mean 157.9
Std Dev 134.1

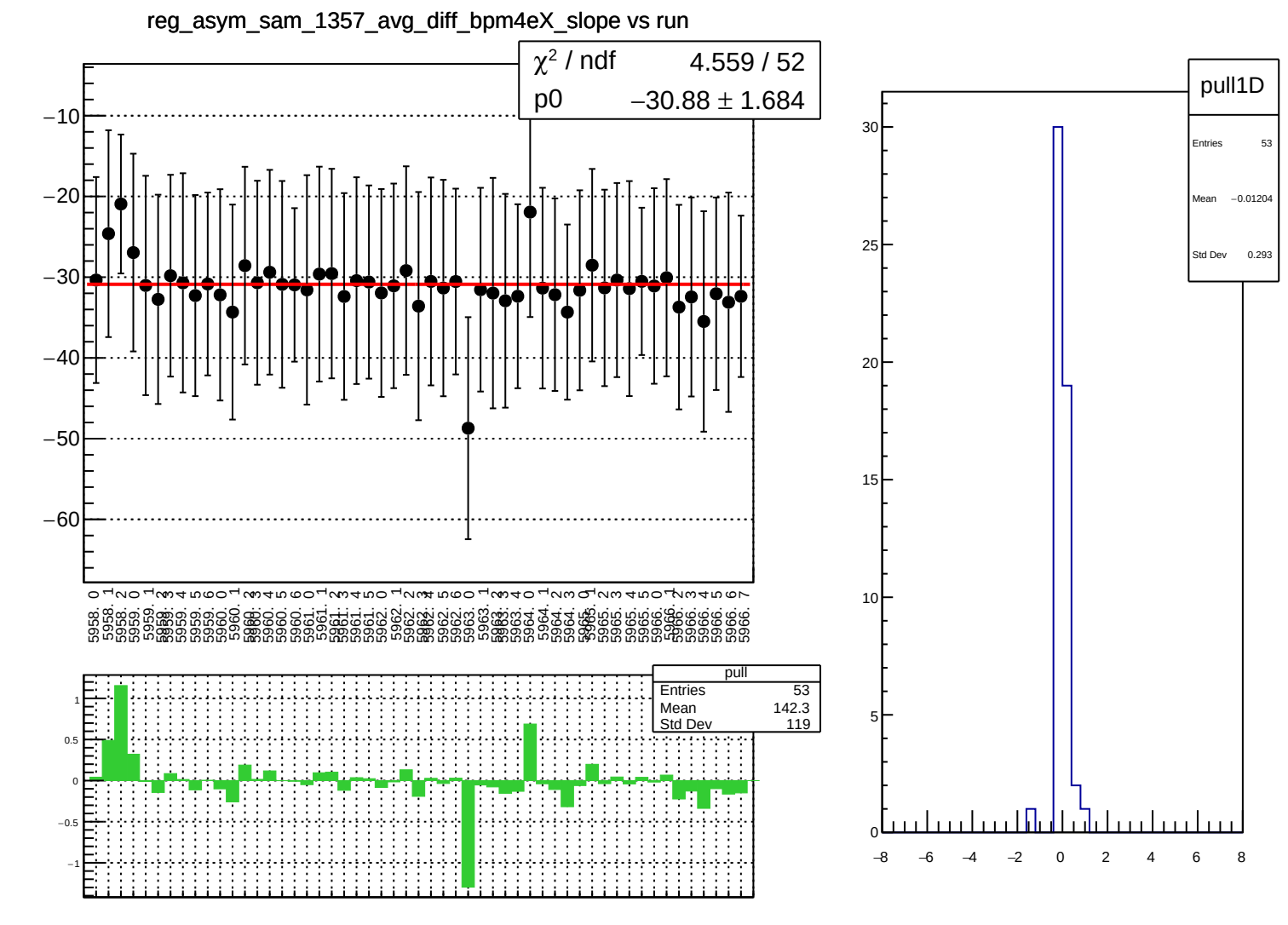

pull1D
Entries 53
Mean −0.004335
Std Dev 0.462

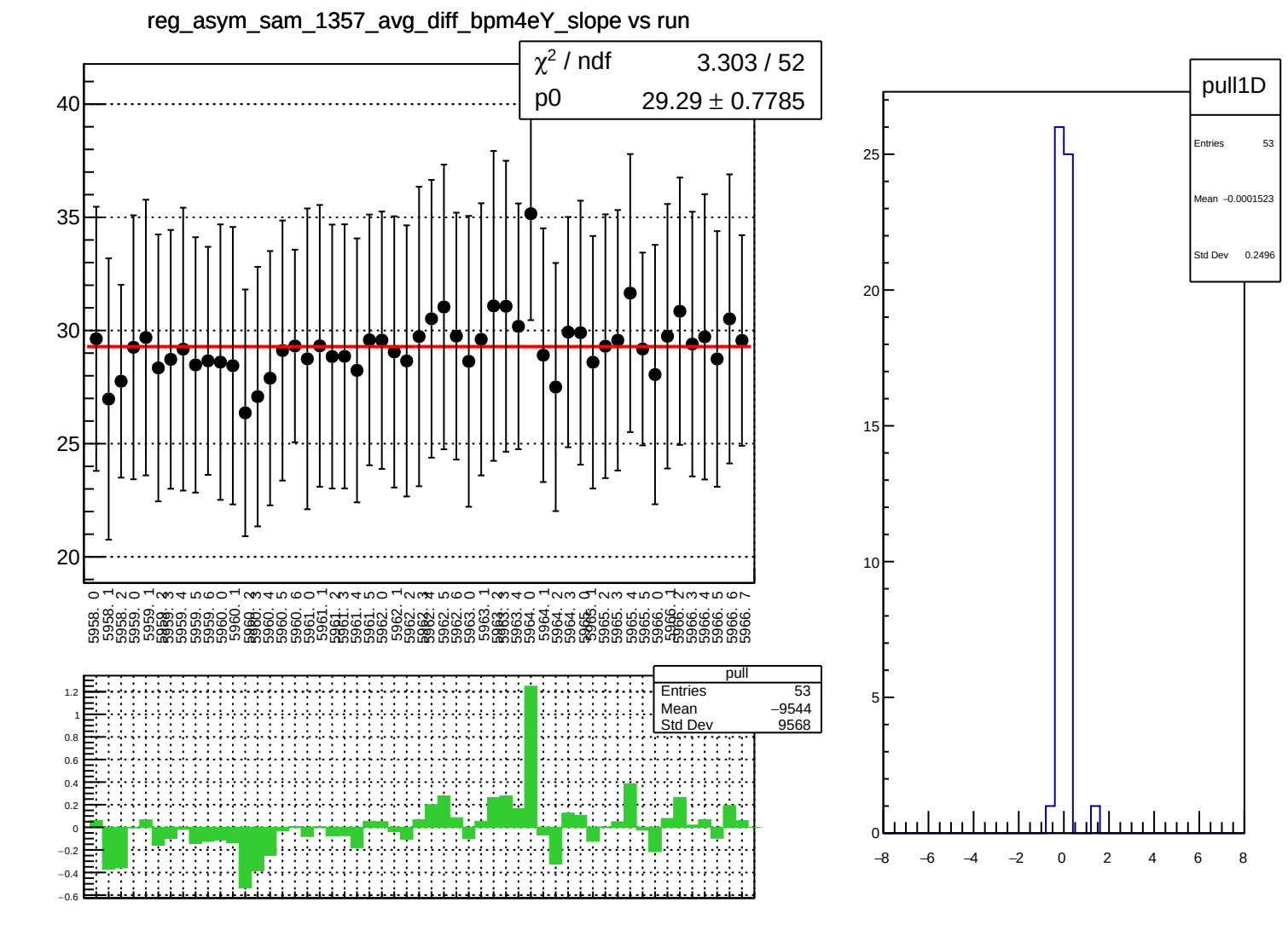

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.704 / 52
p0 −17.58 ± 1.589
pull
Entries 53
Mean 139.3
Std Dev 116.7

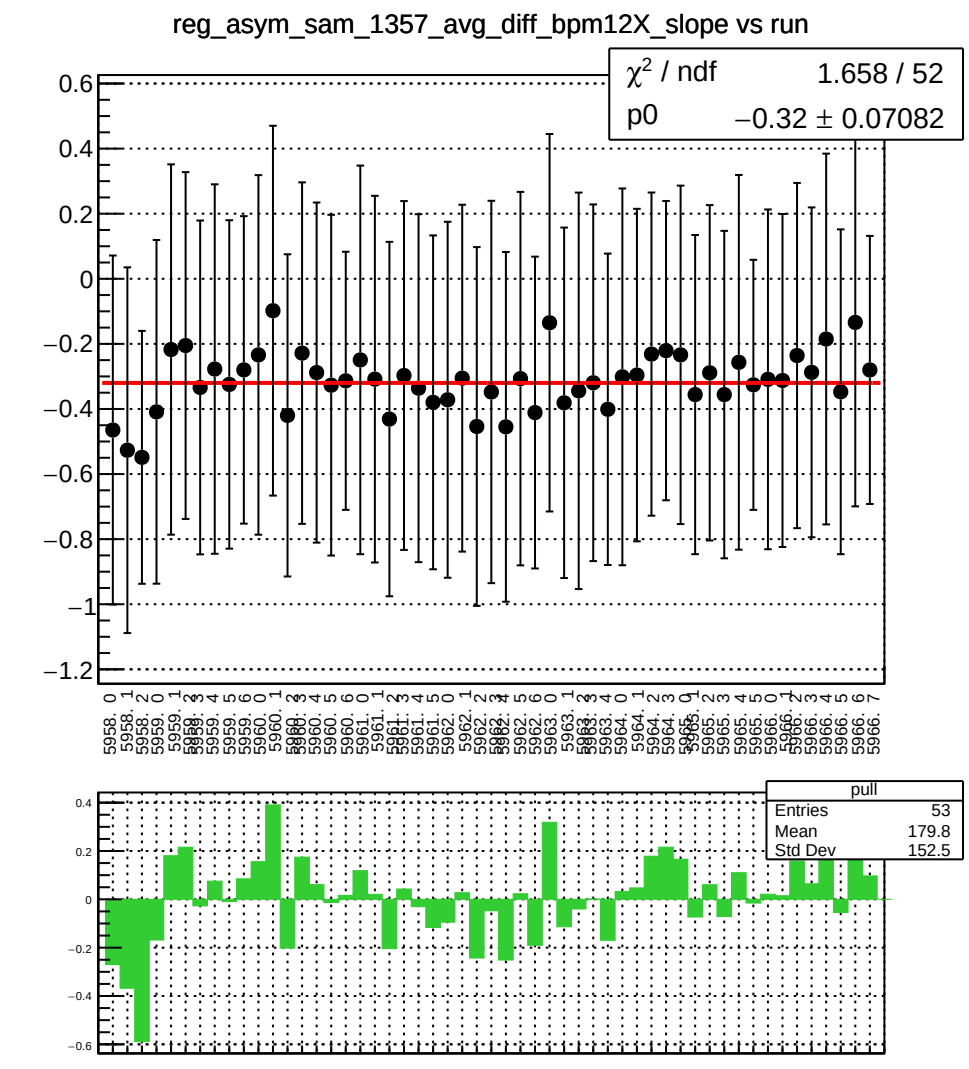

pull1D
Entries 53
Mean 0.01255
Std Dev 0.2976

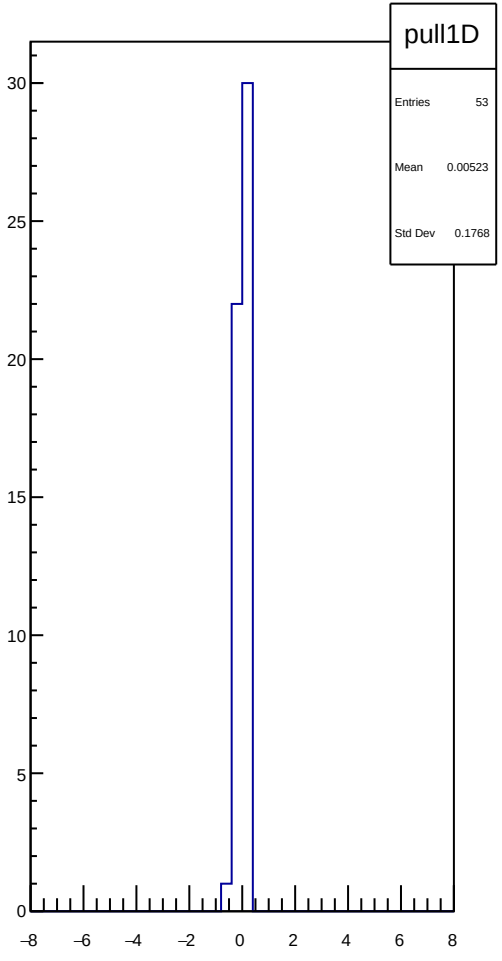

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.839 / 52
p0 2.031 ± 0.604
pull
Entries 53
Mean −357.9
Std Dev 381.4

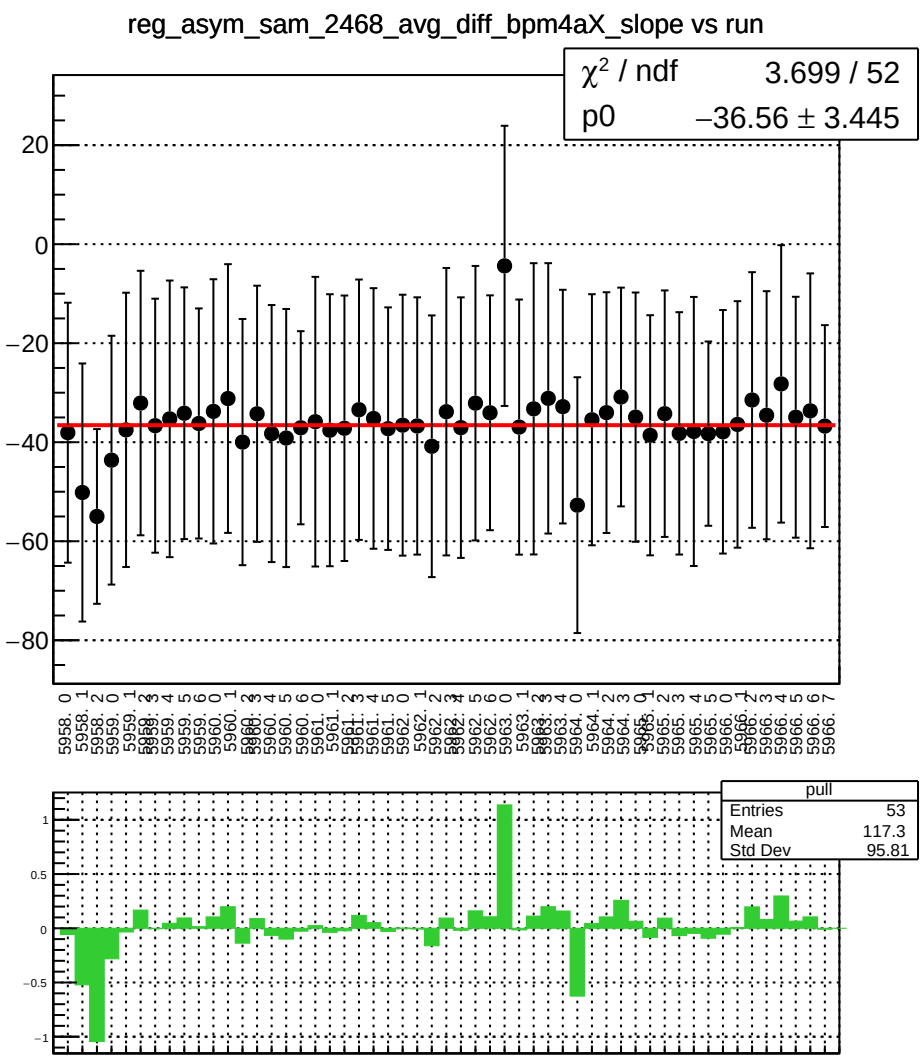

pull1D
Entries 53
Mean 0.002896
Std Dev 0.2314

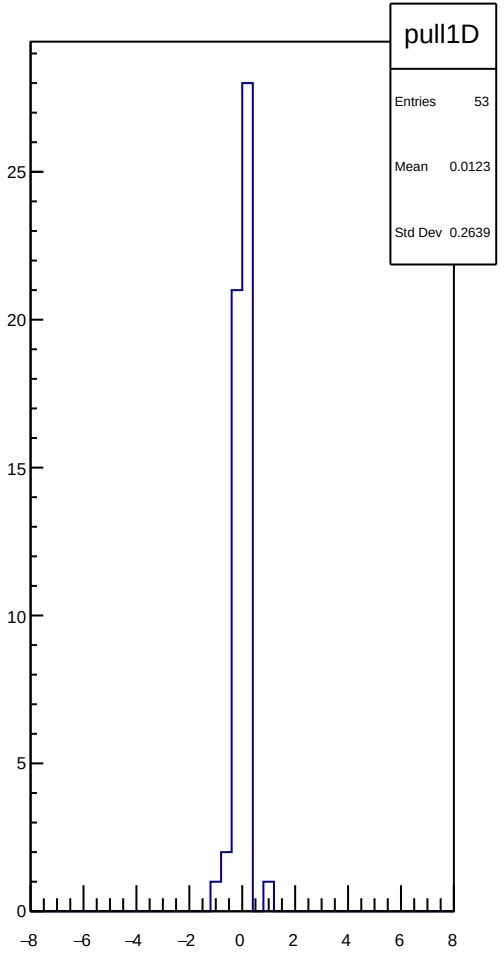

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.559 / 52
p0 −30.88 ± 1.684
pull
Entries 53
Mean 142.3
Std Dev 119
pull1D
Entries 53
Mean −0.01204
Std Dev 0.293

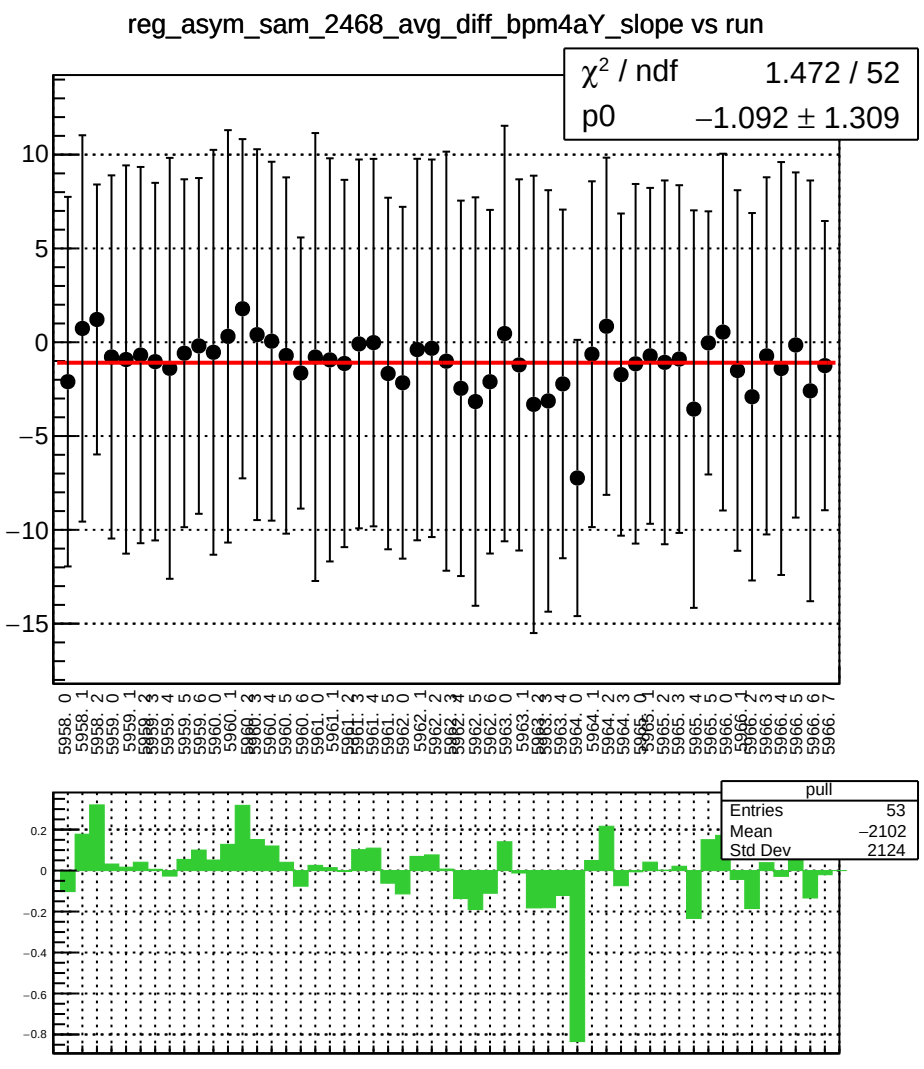

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.303 / 52
p0 29.29 ± 0.7785
pull
Entries 53
Mean −9544
Std Dev 9568
pull1D
Entries 53
Mean −0.0001523
Std Dev 0.2496

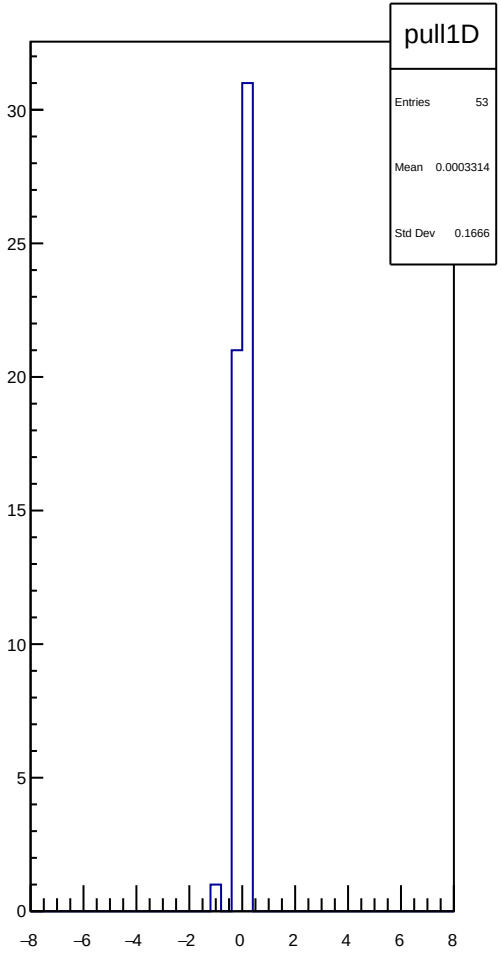

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.658 / 52
p0 −0.32 ± 0.07082
pull
Entries 53
Mean 179.8
Std Dev 152.5

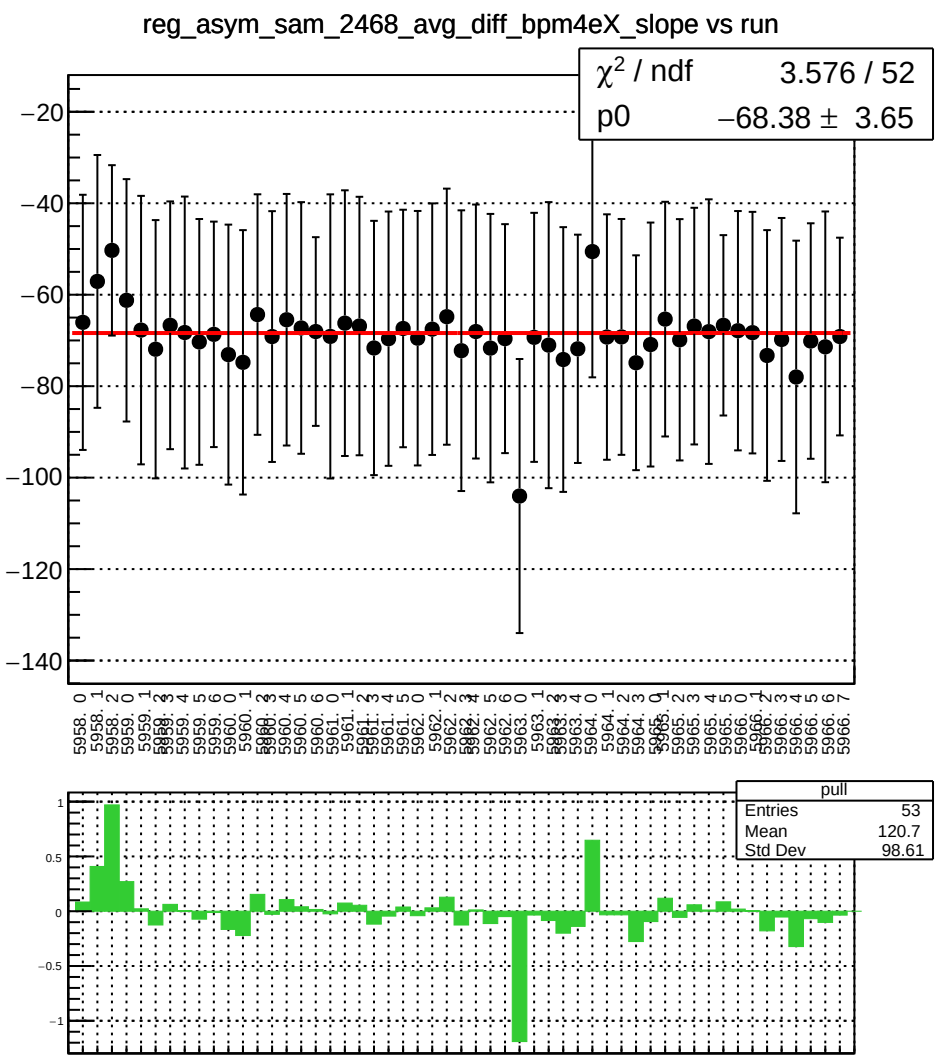

pull1D
Entries 53
Mean 0.00523
Std Dev 0.1768

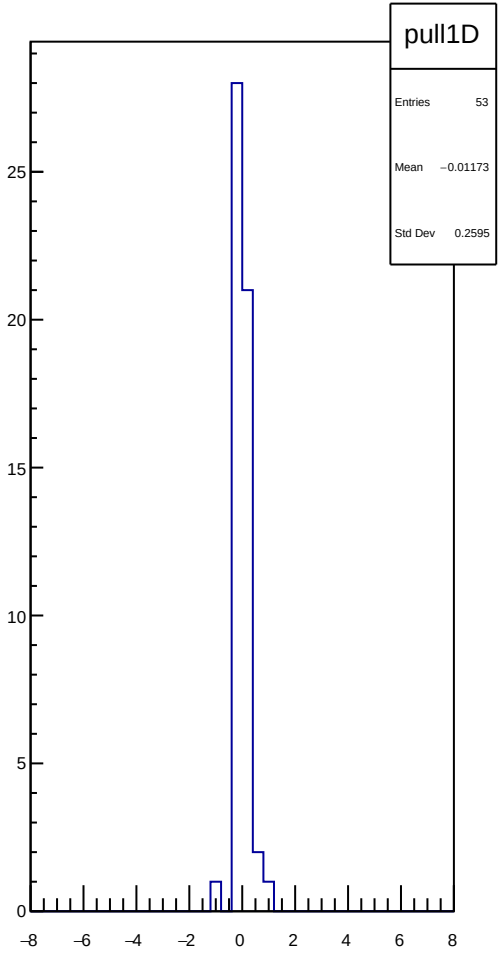

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.699 / 52
p0 −36.56 ± 3.445
pull
Entries 53
Mean 117.3
Std Dev 95.81

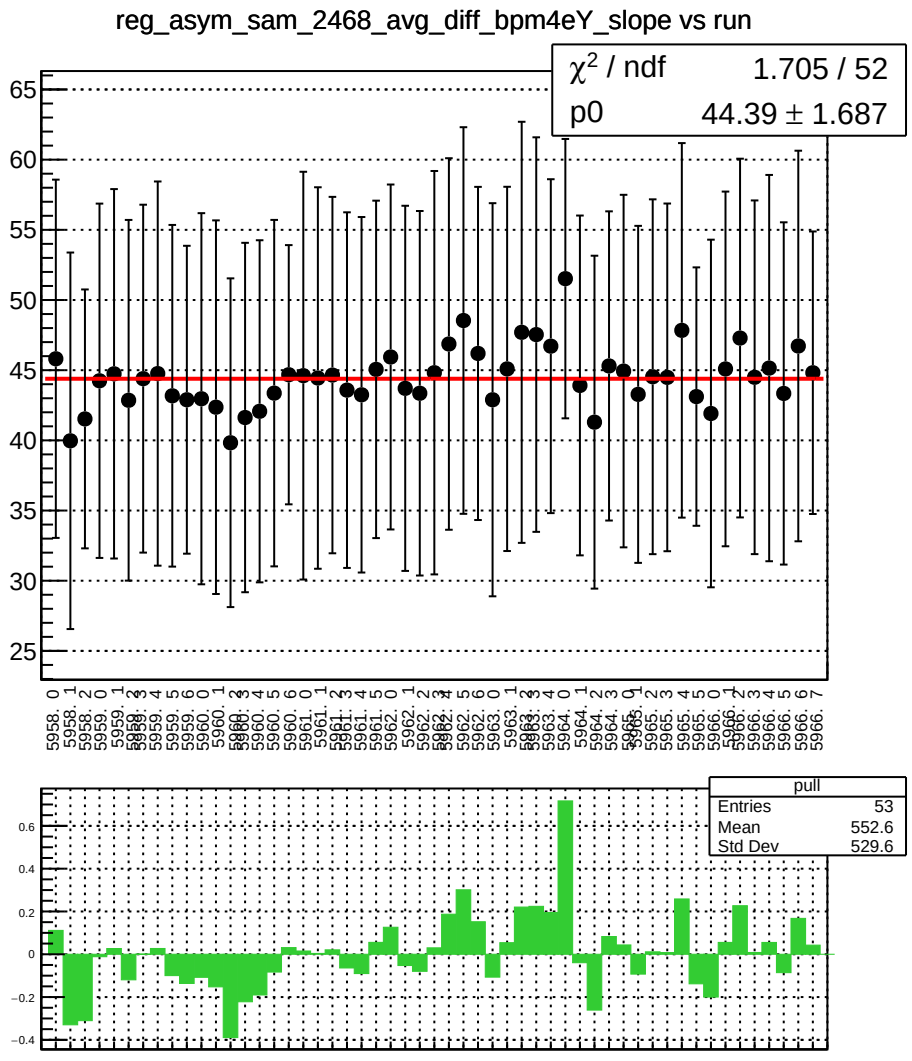

pull1D
Entries 53
Mean 0.0123
Std Dev 0.2639

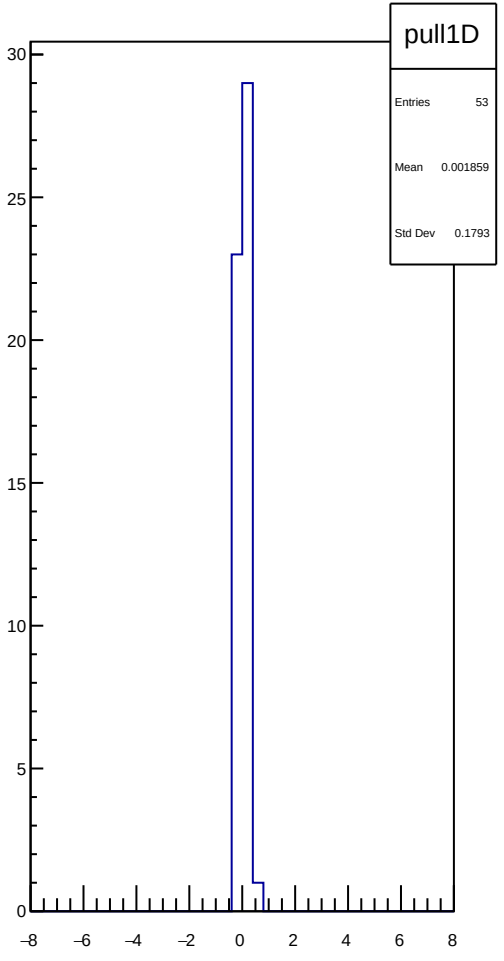

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.472 / 52
p0 −1.092 ± 1.309
pull
Entries 53
Mean −2102
Std Dev 2124

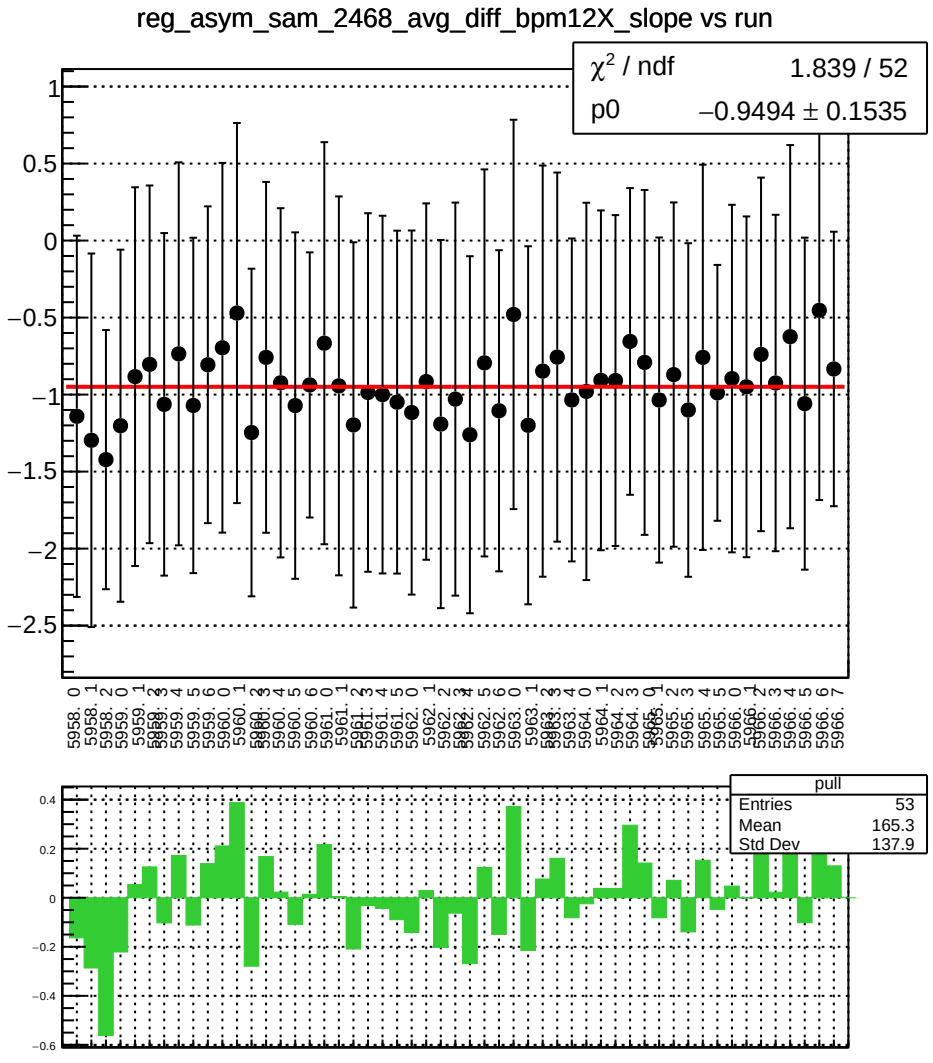

pull1D
Entries 53
Mean 0.0003314
Std Dev 0.1666

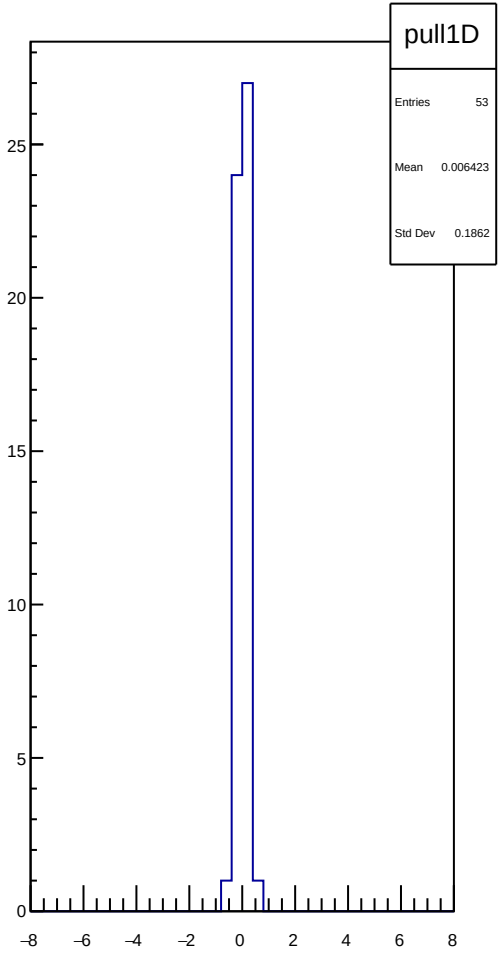

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.576 / 52
p0 −68.38 ± 3.65
pull
Entries 53
Mean 120.7
Std Dev 98.61

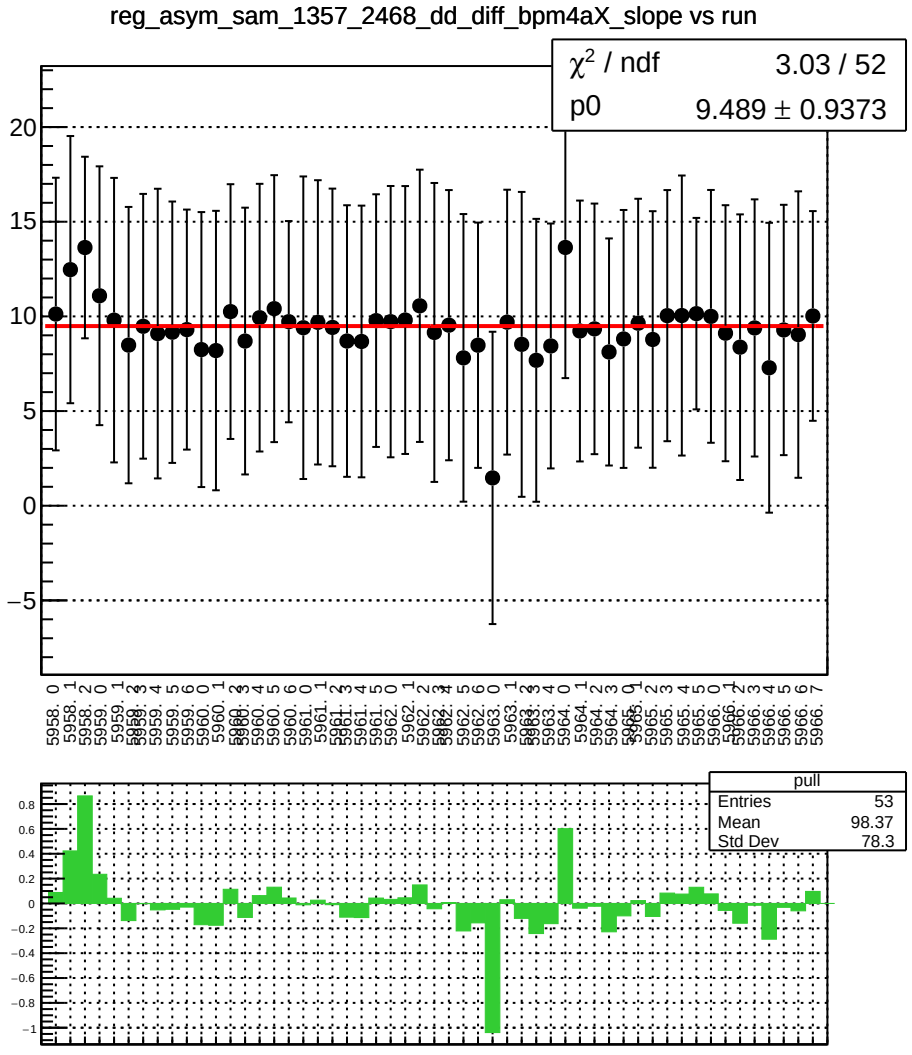

pull1D
Entries 53
Mean −0.01173
Std Dev 0.2595

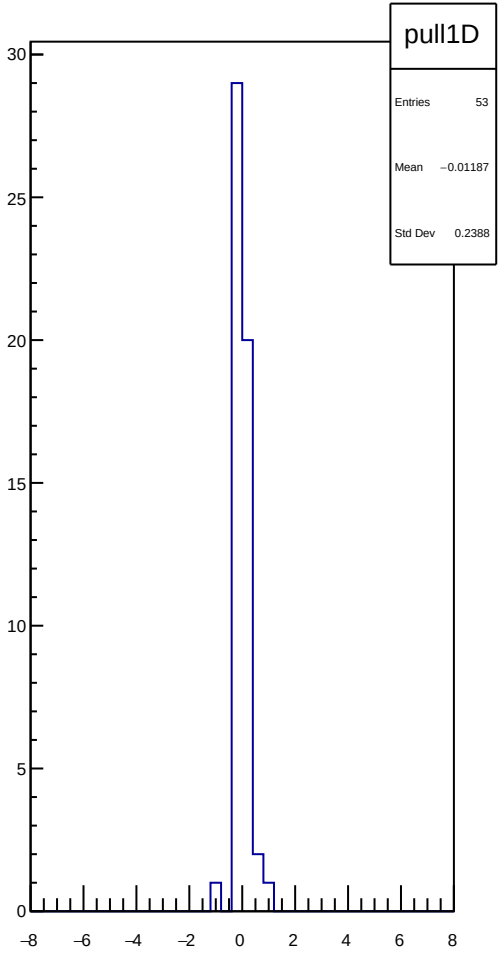

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.705 / 52
p0 44.39 ± 1.687
pull
Entries 53
Mean 552.6
Std Dev 529.6

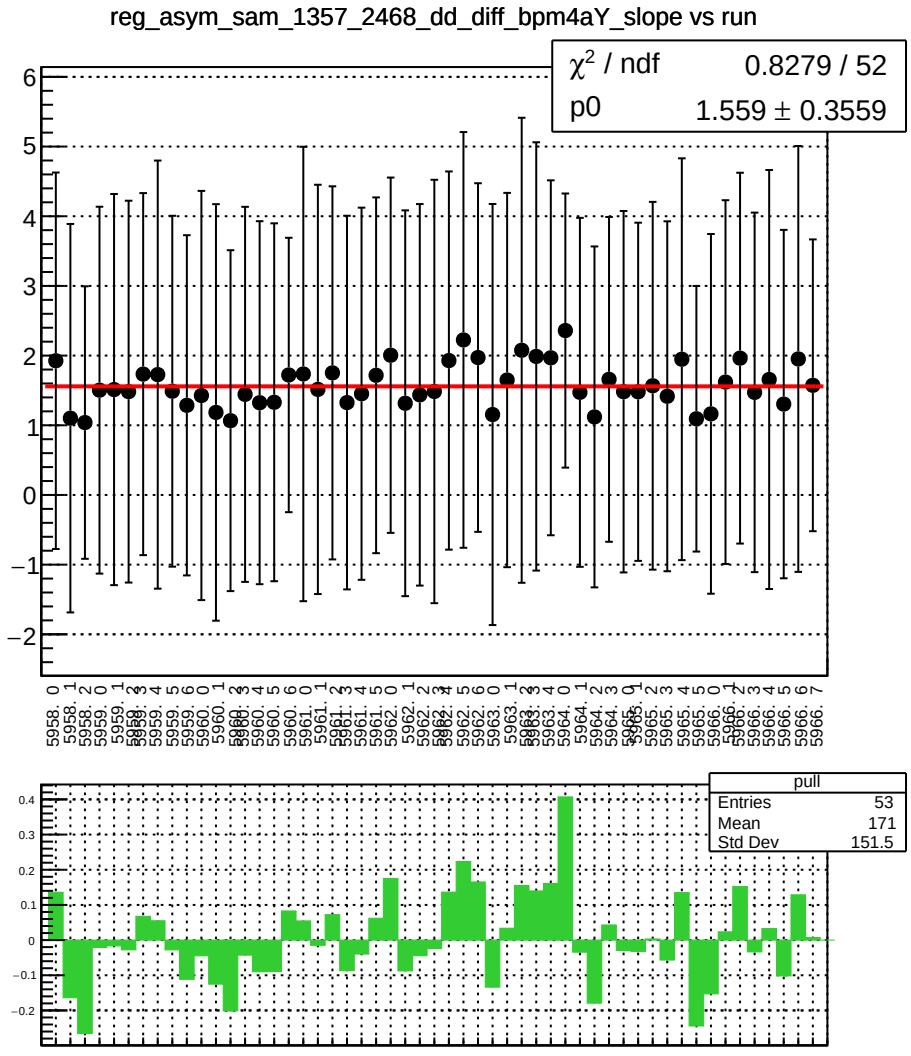

pull1D
Entries 53
Mean 0.001859
Std Dev 0.1793

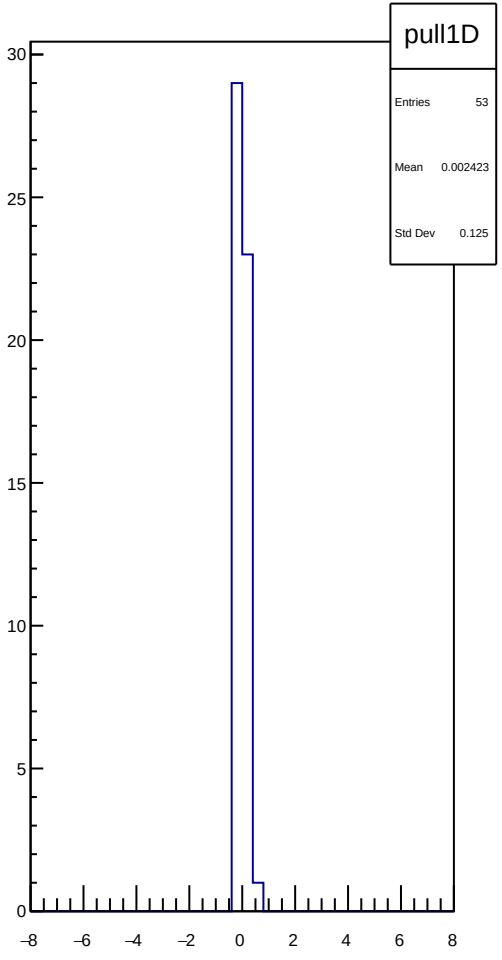

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.839 / 52
p0 −0.9494 ± 0.1535
pull
Entries 53
Mean 165.3
Std Dev 137.9

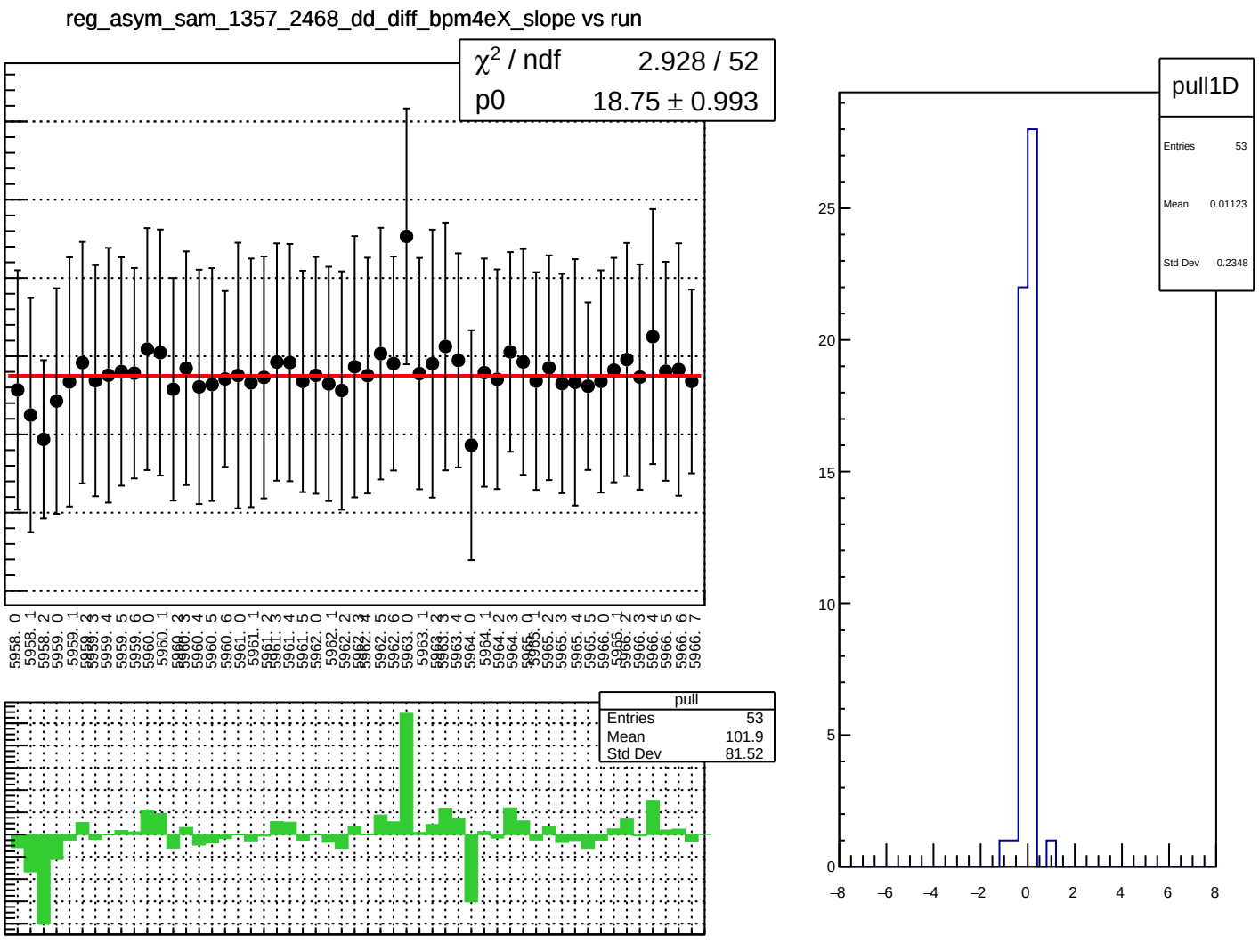

pull1D
Entries 53
Mean 0.006423
Std Dev 0.1862

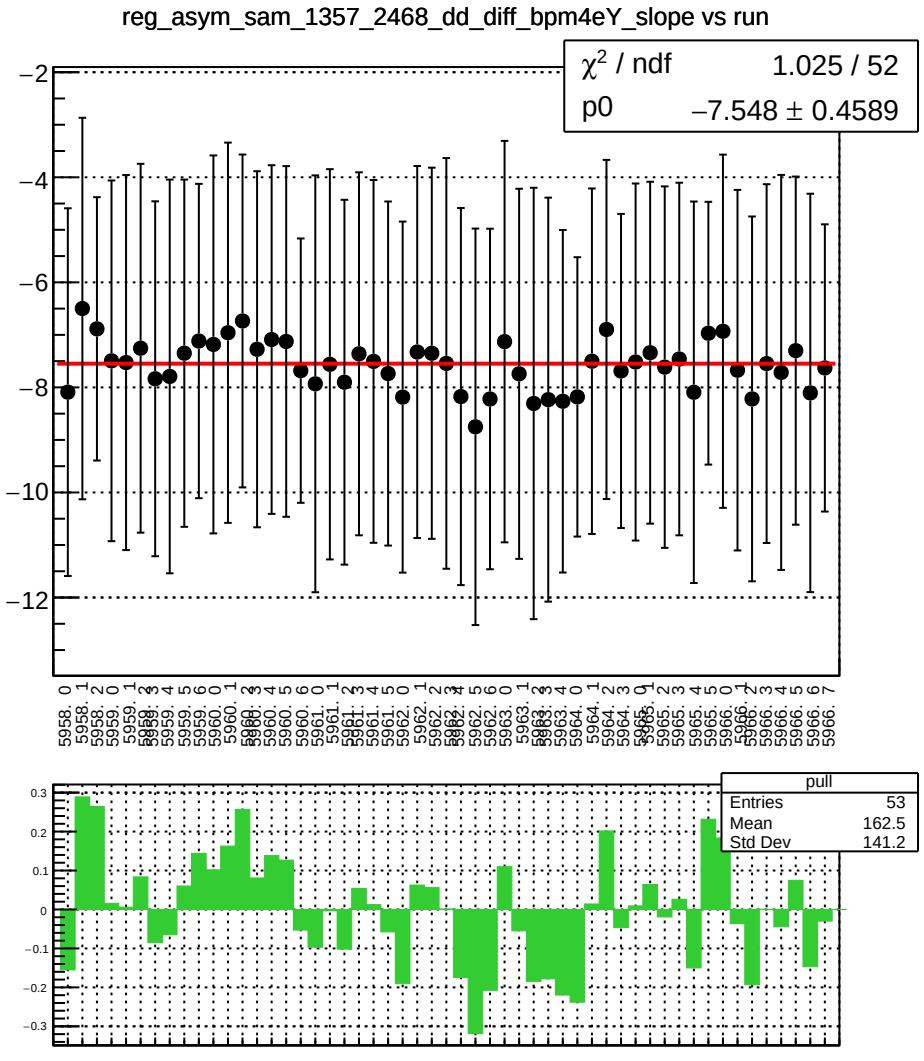

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.03 / 52
p0 9.489 ± 0.9373
pull
Entries 53
Mean 98.37
Std Dev 78.3

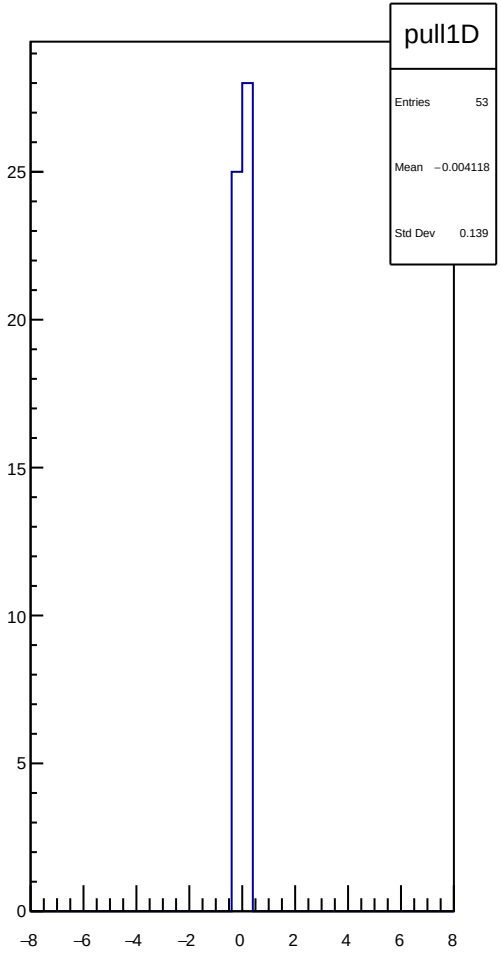

pull1D
Entries 53
Mean −0.01187
Std Dev 0.2388

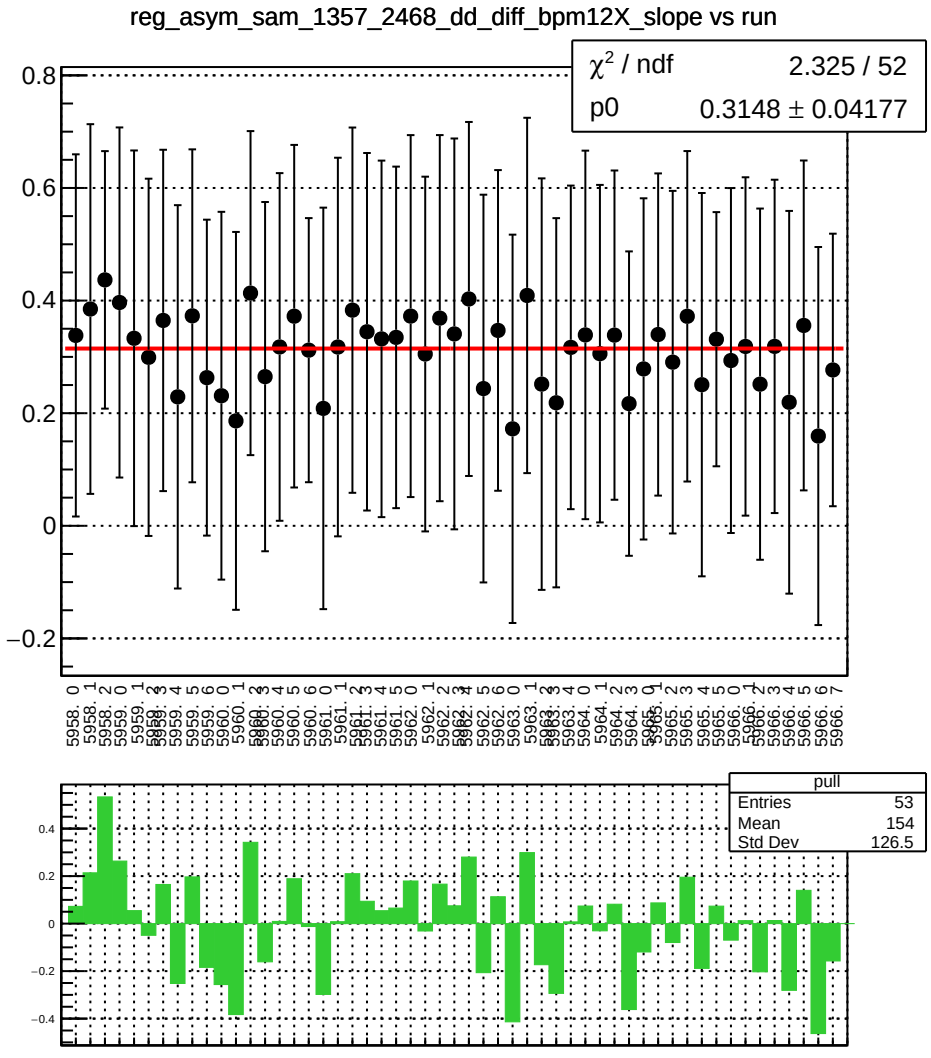

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8279 / 52
p0 1.559 ± 0.3559
pull
Entries 53
Mean 171
Std Dev 151.5

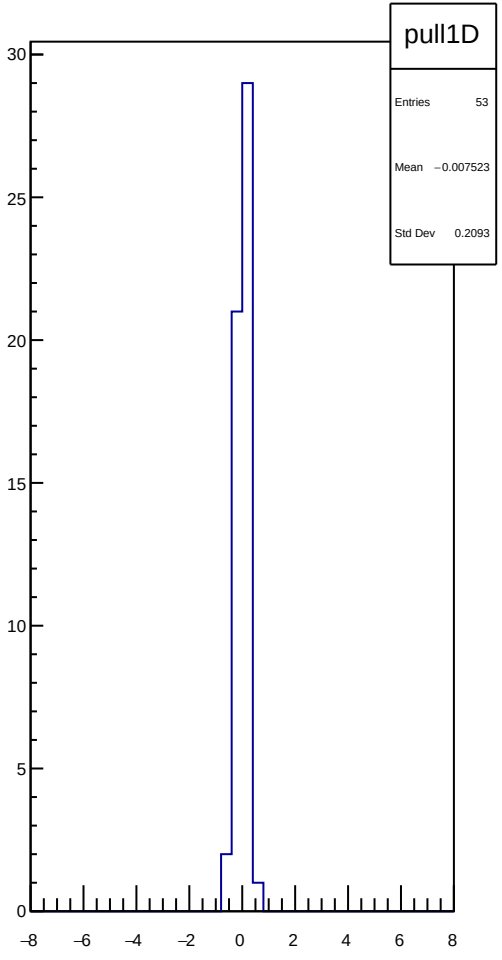

pull1D
Entries 53
Mean 0.002423
Std Dev 0.125

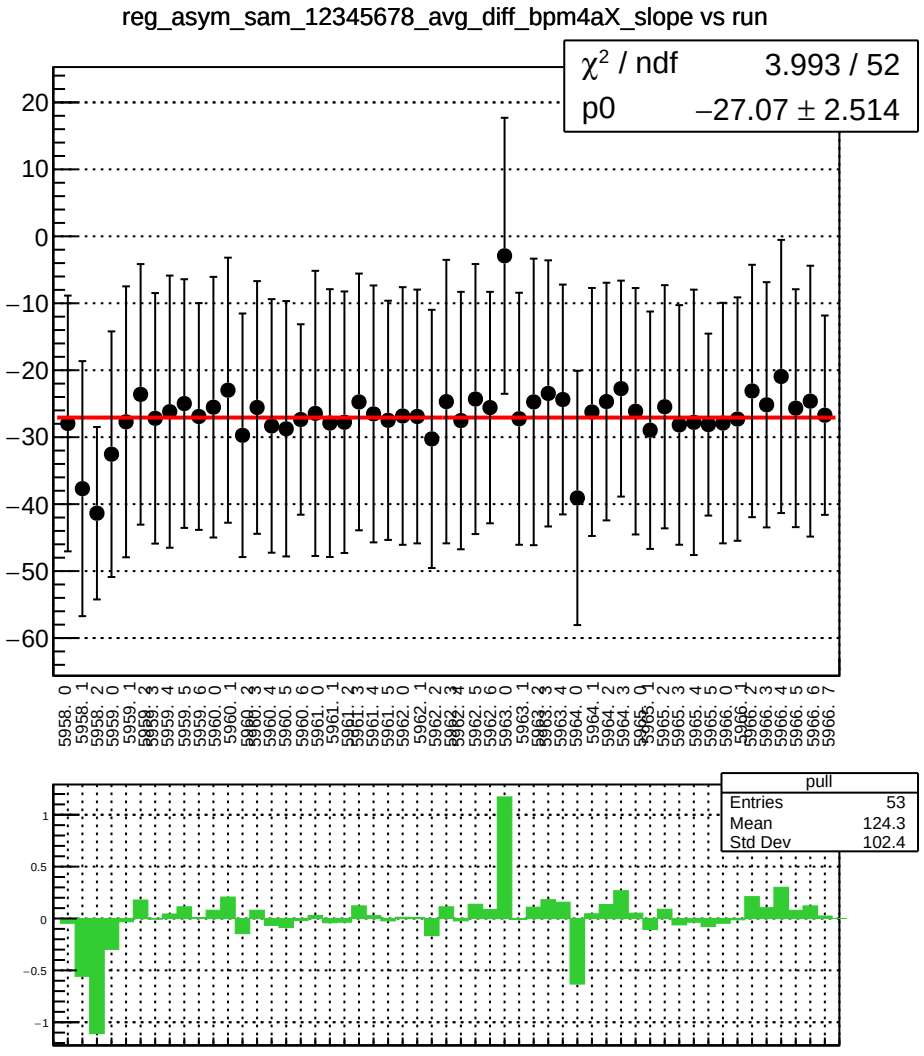

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.928 / 52
p0 18.75 ± 0.993
pull
Entries 53
Mean 101.9
Std Dev 81.52
pull1D
Entries 53
Mean 0.01123
Std Dev 0.2348

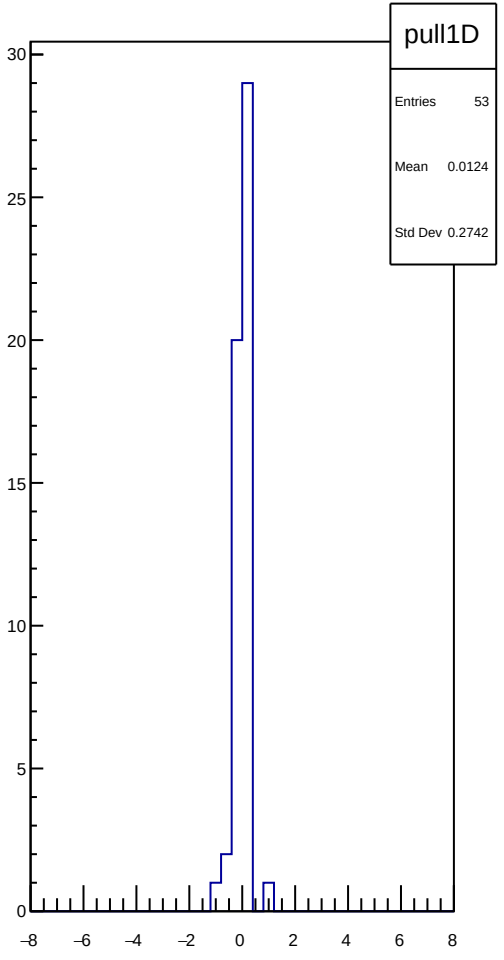

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.025 / 52
p0 −7.548 ± 0.4589
pull
Entries 53
Mean 162.5
Std Dev 141.2

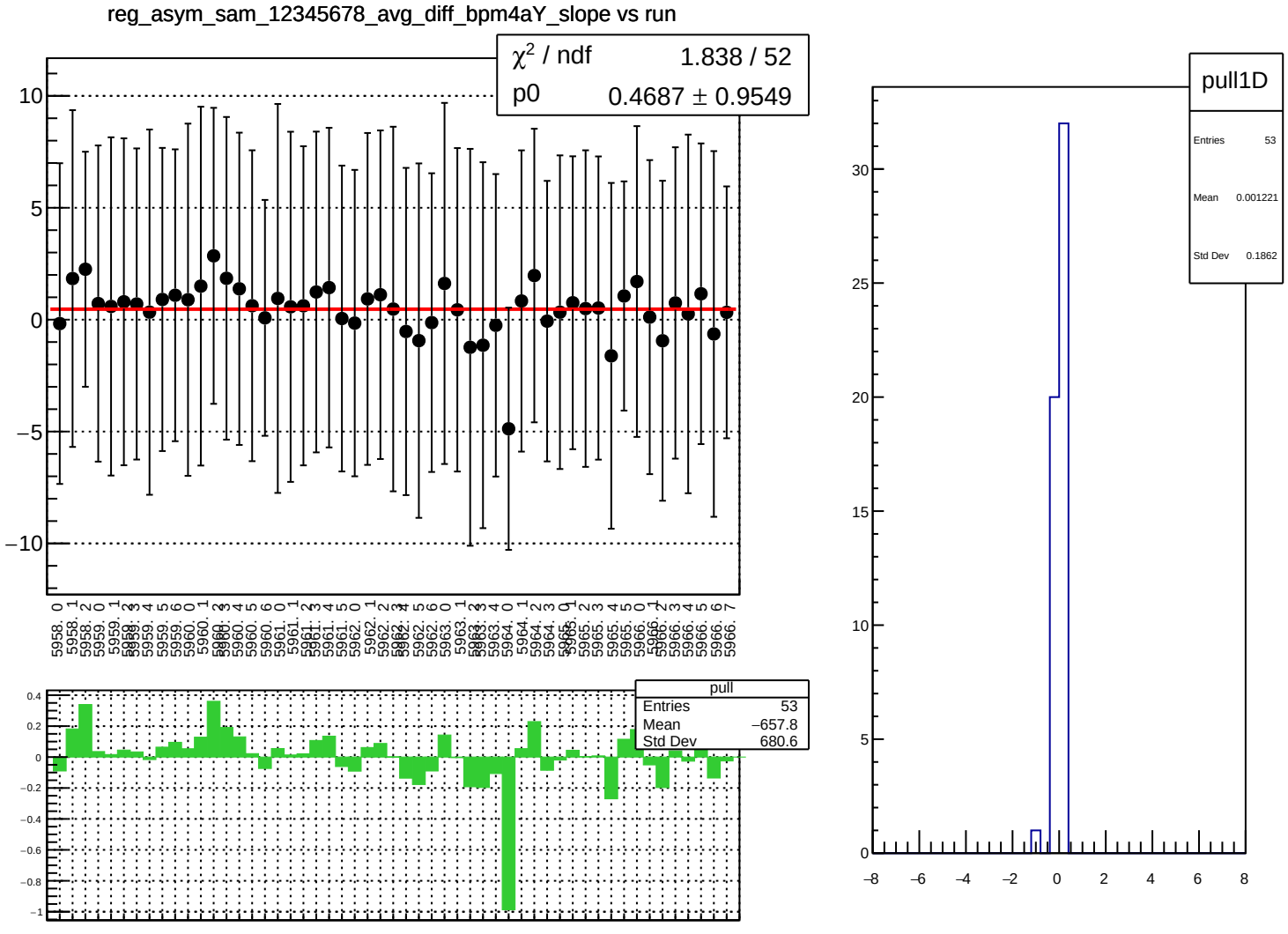

pull1D
Entries 53
Mean −0.004118
Std Dev 0.139

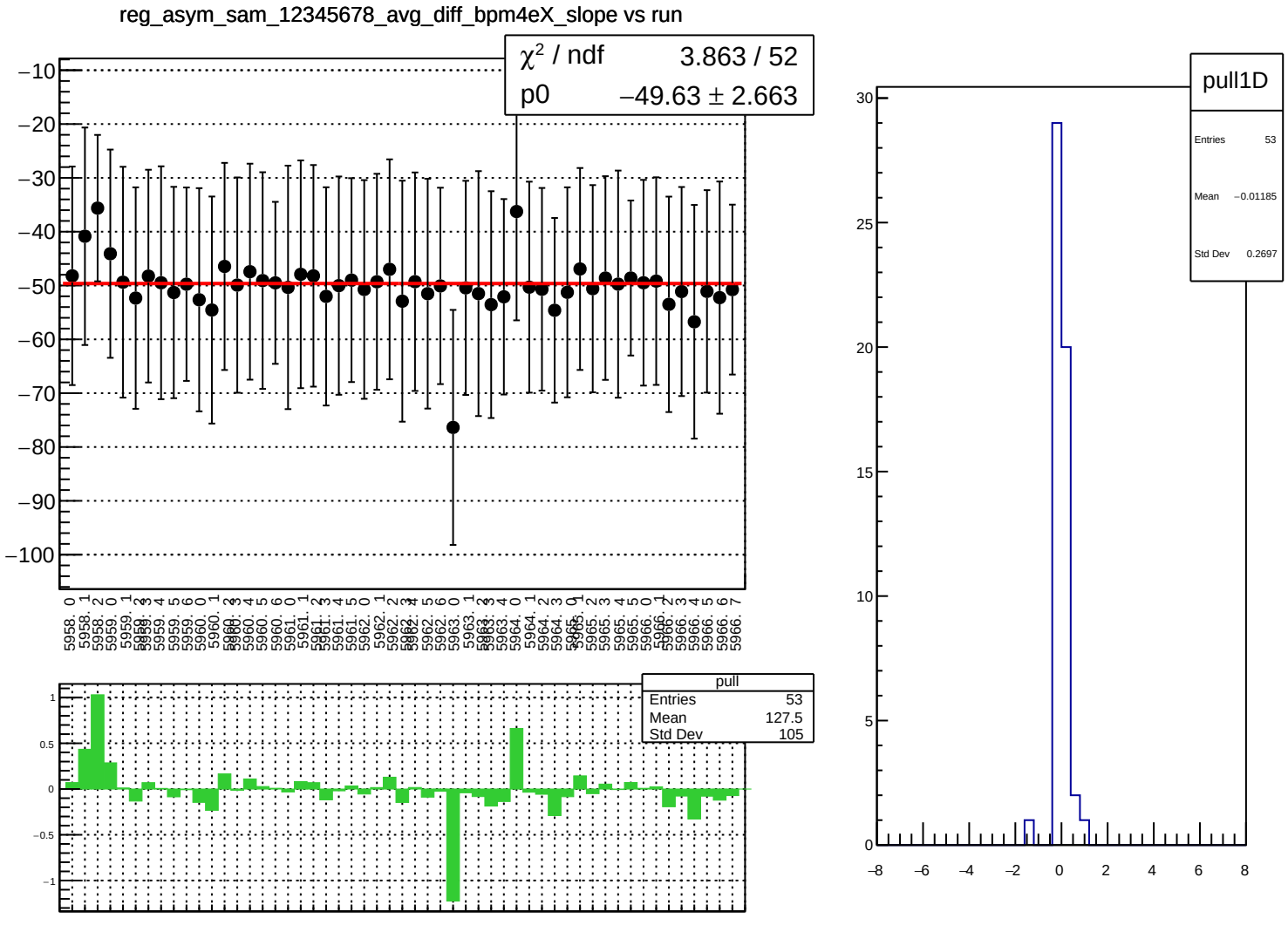

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.325 / 52
p0 0.3148 ± 0.04177
pull
Entries 53
Mean 154
Std Dev 126.5

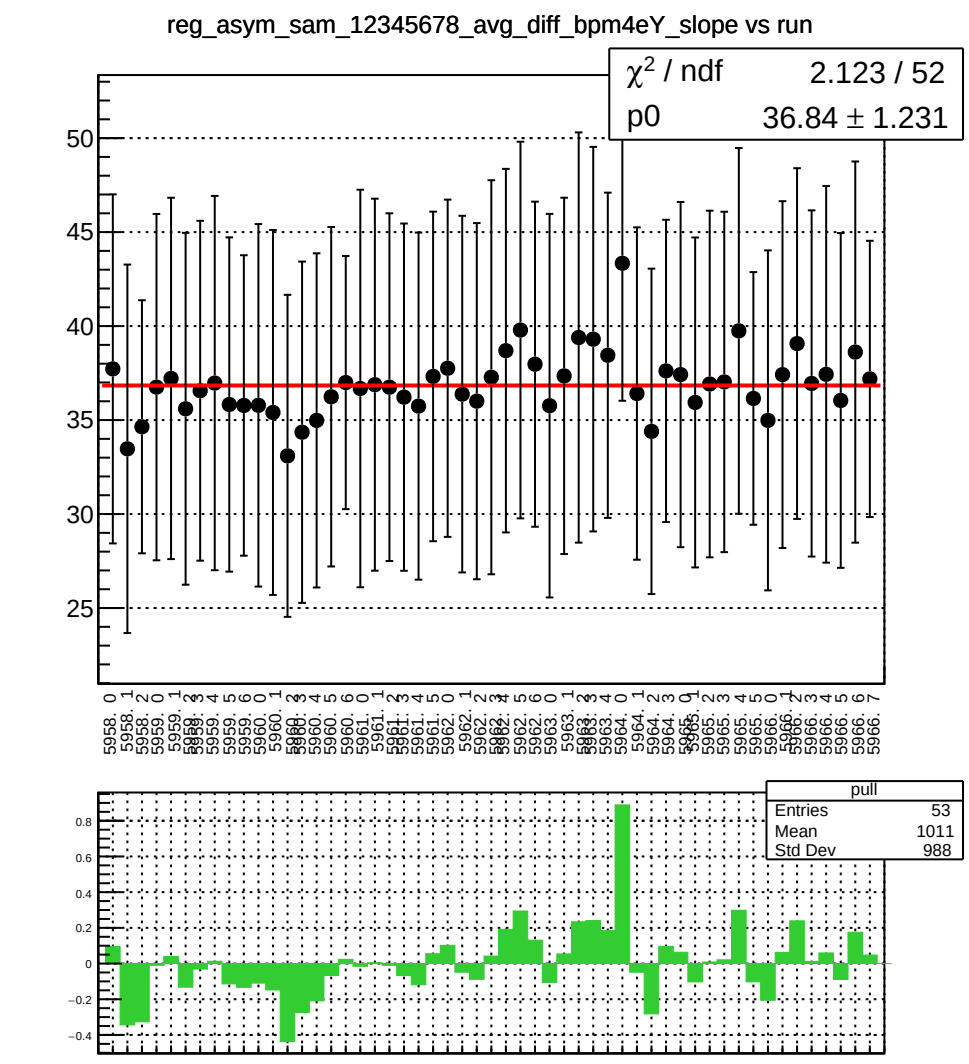

pull1D
Entries 53
Mean −0.007523
Std Dev 0.2093

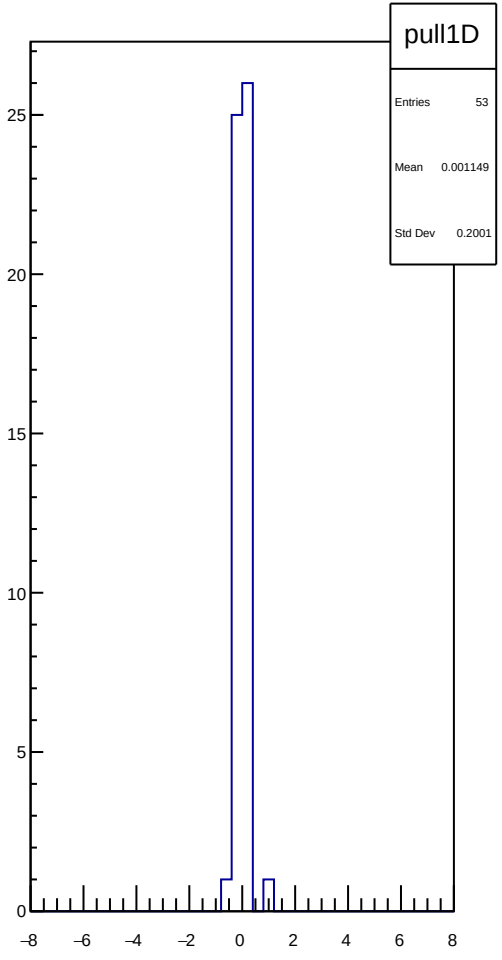

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.993 / 52
p0 −27.07 ± 2.514
pull
Entries 53
Mean 124.3
Std Dev 102.4

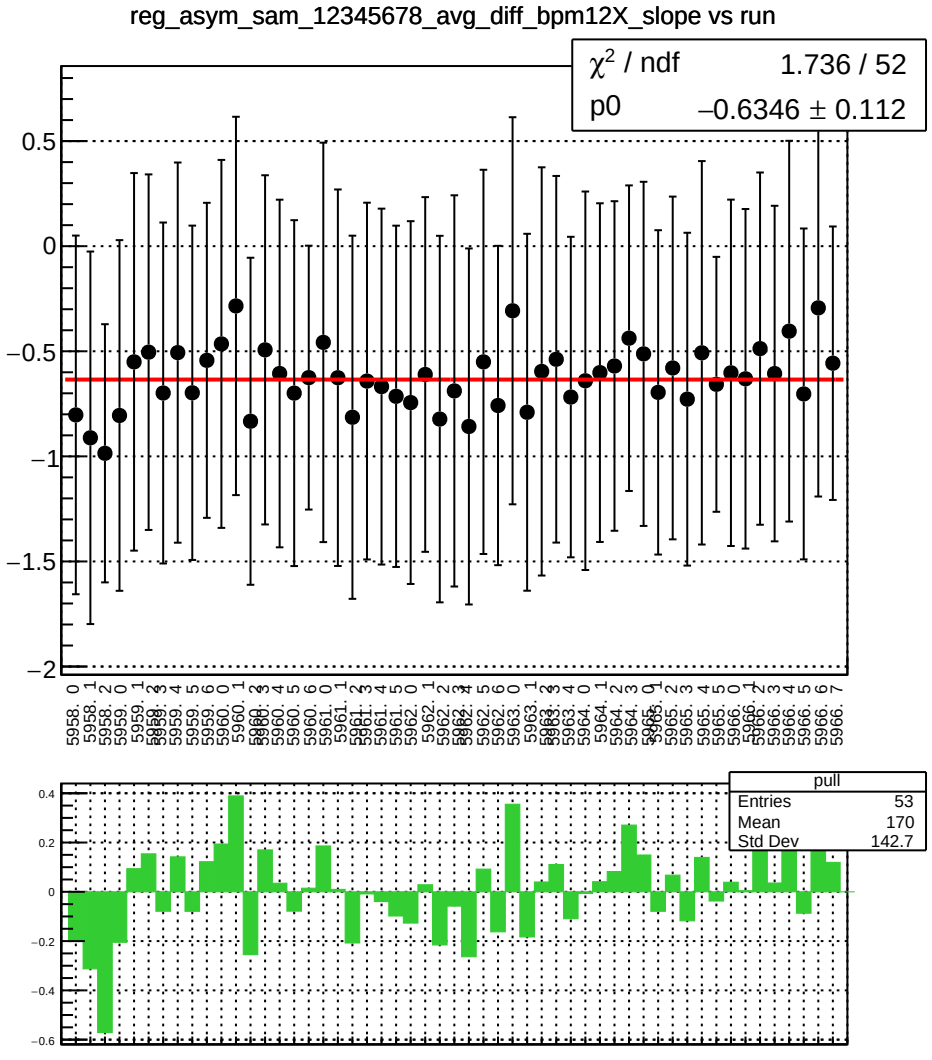

pull1D
Entries 53
Mean 0.0124
Std Dev 0.2742

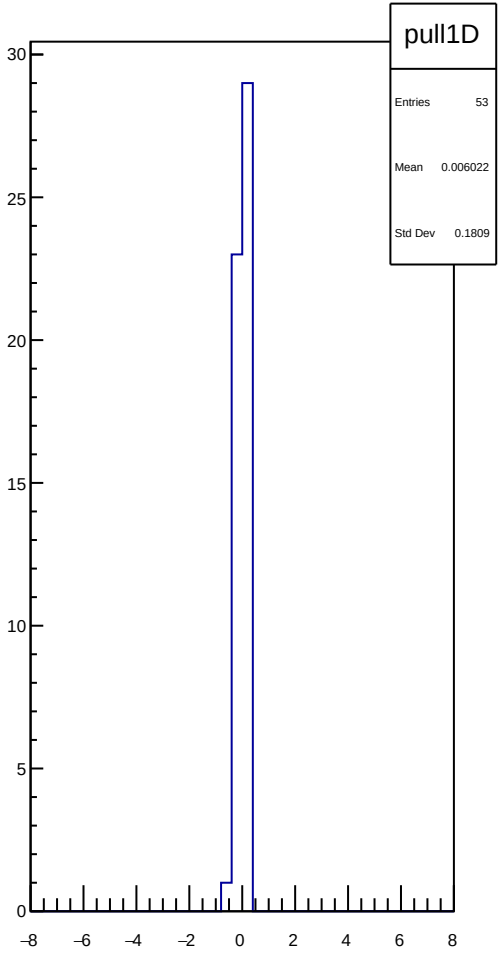

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.838 / 52
p0 0.4687 ± 0.9549
pull
Entries 53
Mean −657.8
Std Dev 680.6
pull1D
Entries 53
Mean 0.001221
Std Dev 0.1862

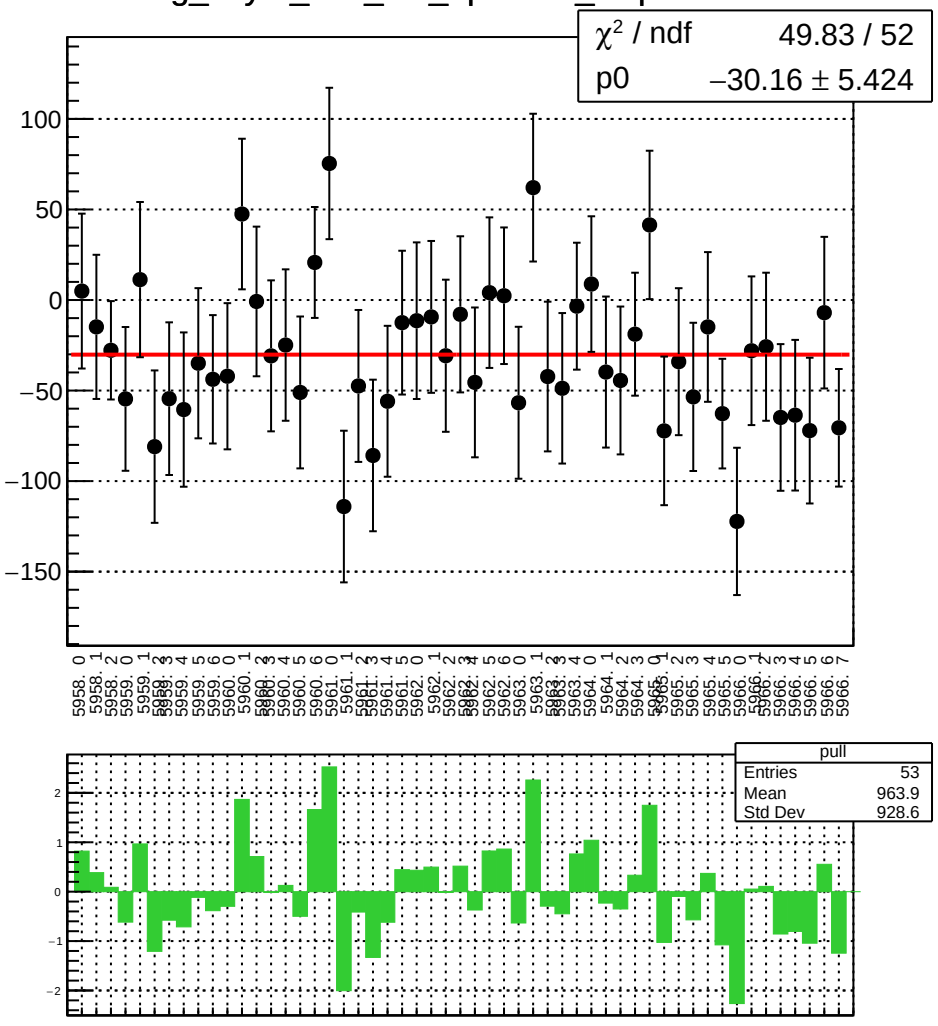

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.863 / 52
p0 −49.63 ± 2.663
pull
Entries 53
Mean 127.5
Std Dev 105
pull1D
Entries 53
Mean −0.01185
Std Dev 0.2697

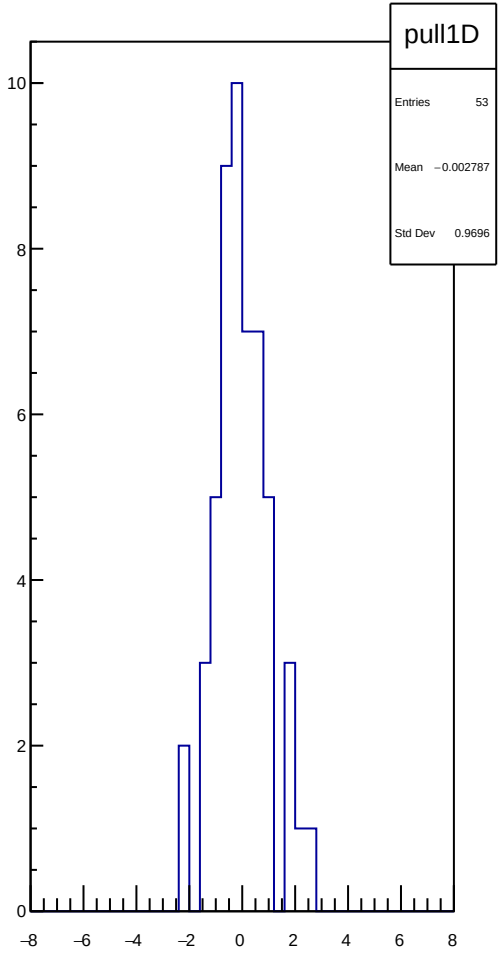

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.123 / 52
p0 36.84 ± 1.231
pull
Entries 53
Mean 1011
Std Dev 988

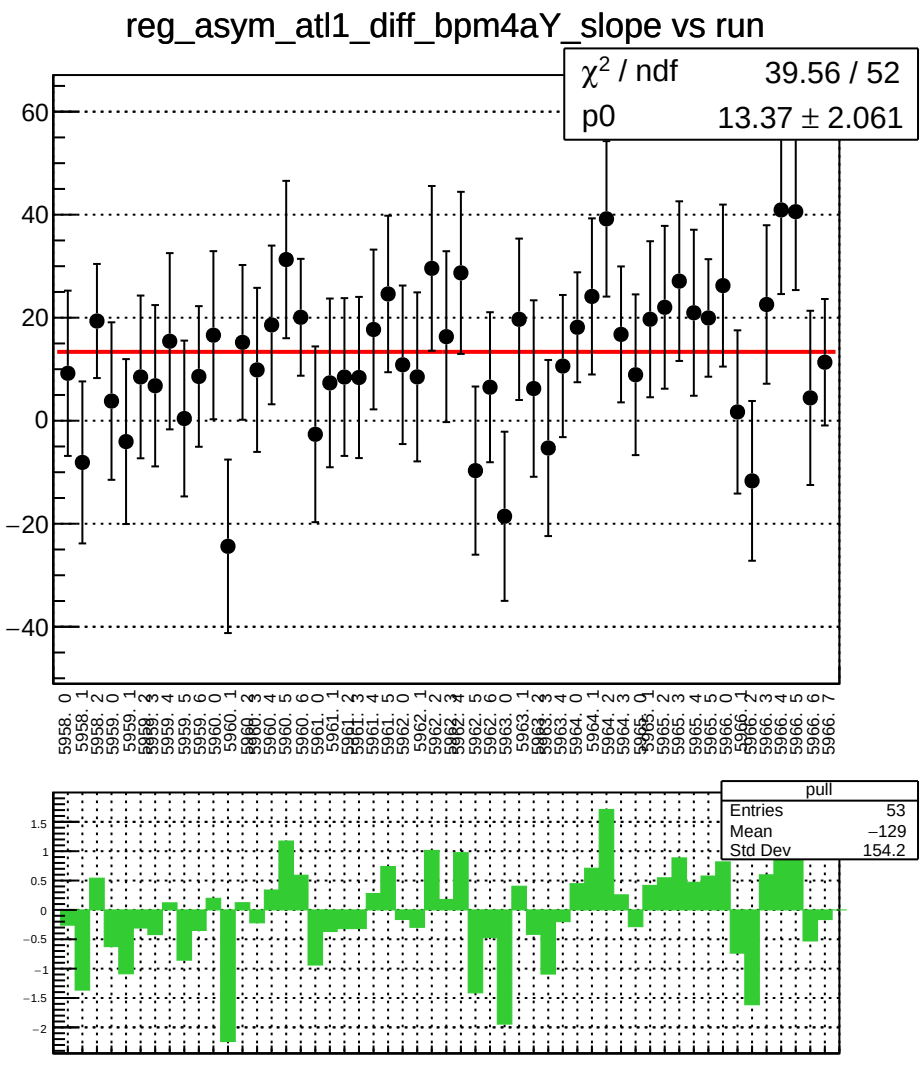

pull1D
Entries 53
Mean 0.001149
Std Dev 0.2001

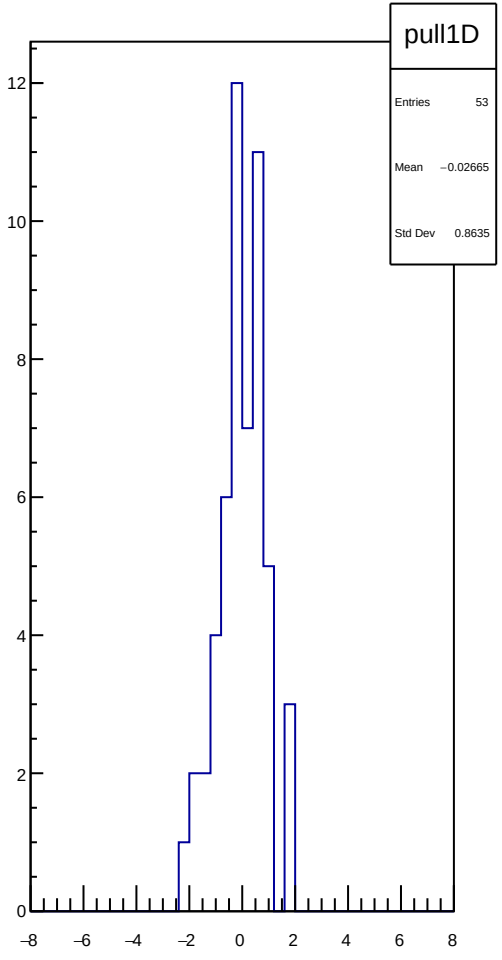

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.736 / 52
p0 −0.6346 ± 0.112
pull
Entries 53
Mean 170
Std Dev 142.7

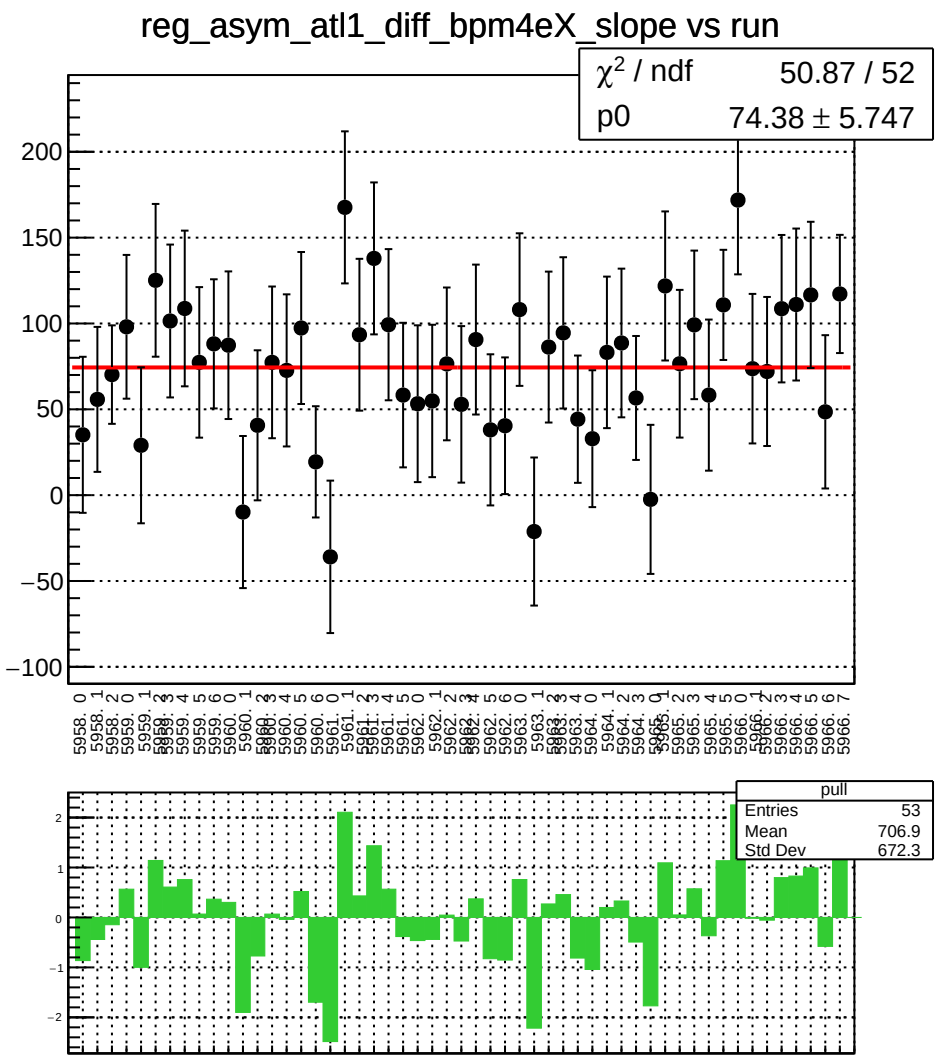

pull1D
Entries 53
Mean 0.006022
Std Dev 0.1809

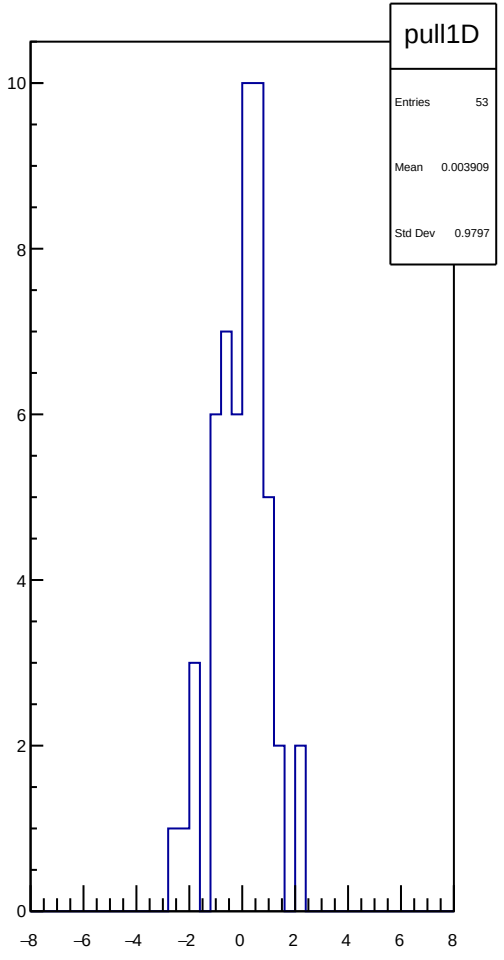

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 49.83 / 52
p0 −30.16 ± 5.424
pull
Entries 53
Mean 963.9
Std Dev 928.6

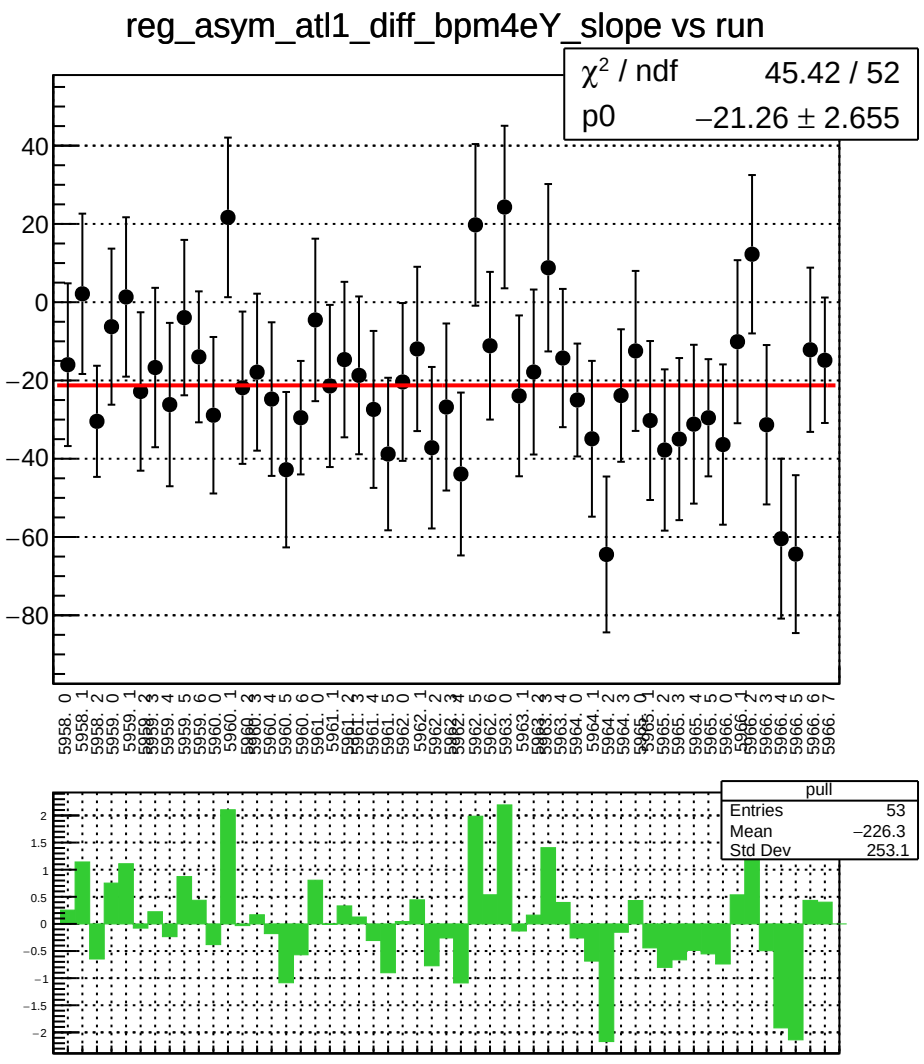

pull1D
Entries 53
Mean −0.002787
Std Dev 0.9696

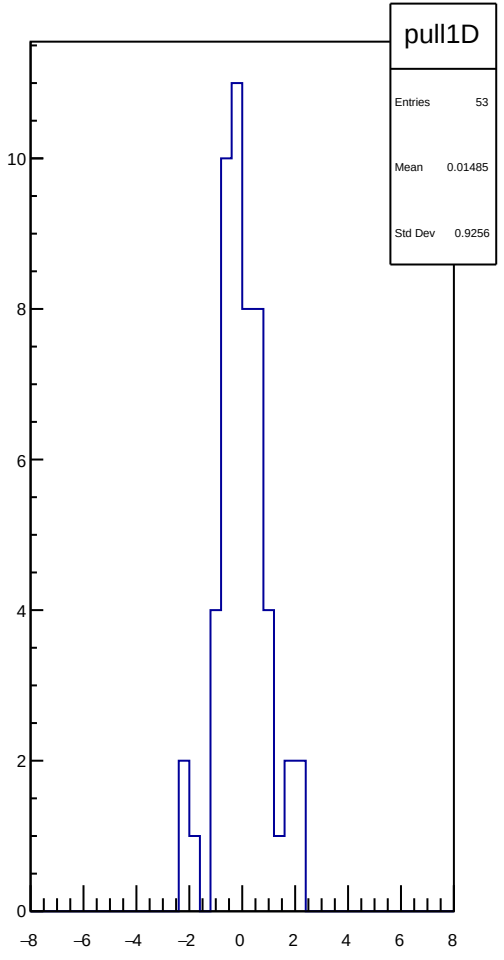

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 39.56 / 52
p0 13.37 ± 2.061
pull
Entries 53
Mean −129
Std Dev 154.2

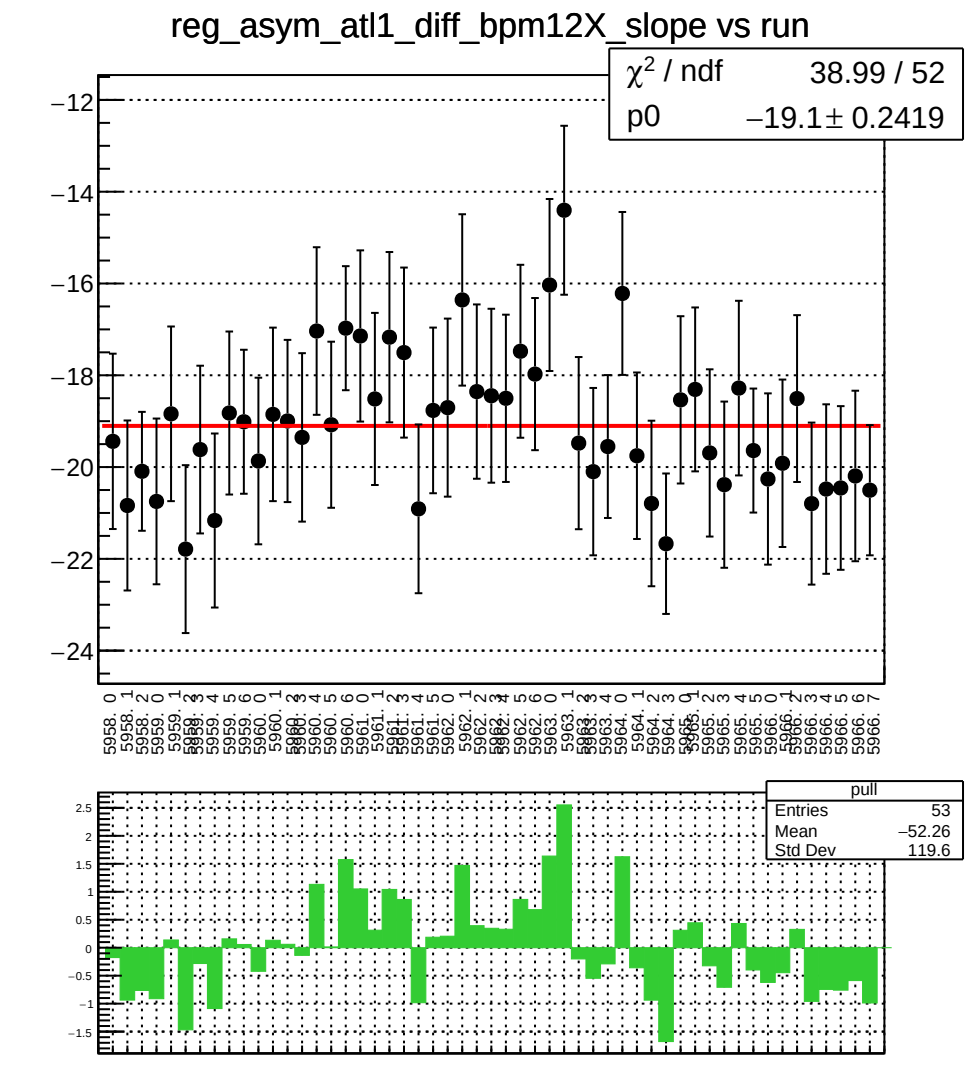

pull1D
Entries 53
Mean −0.02665
Std Dev 0.8635

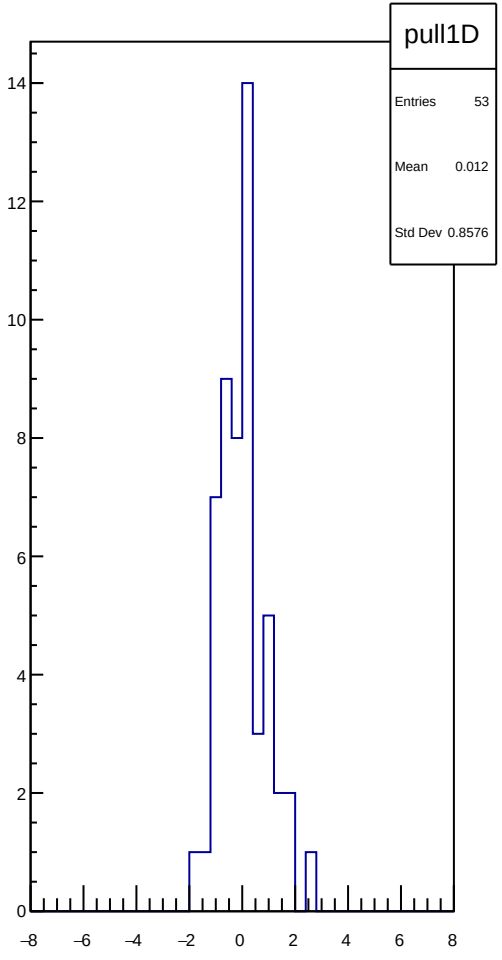

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 50.87 / 52
p0 74.38 ± 5.747
pull
Entries 53
Mean 706.9
Std Dev 672.3

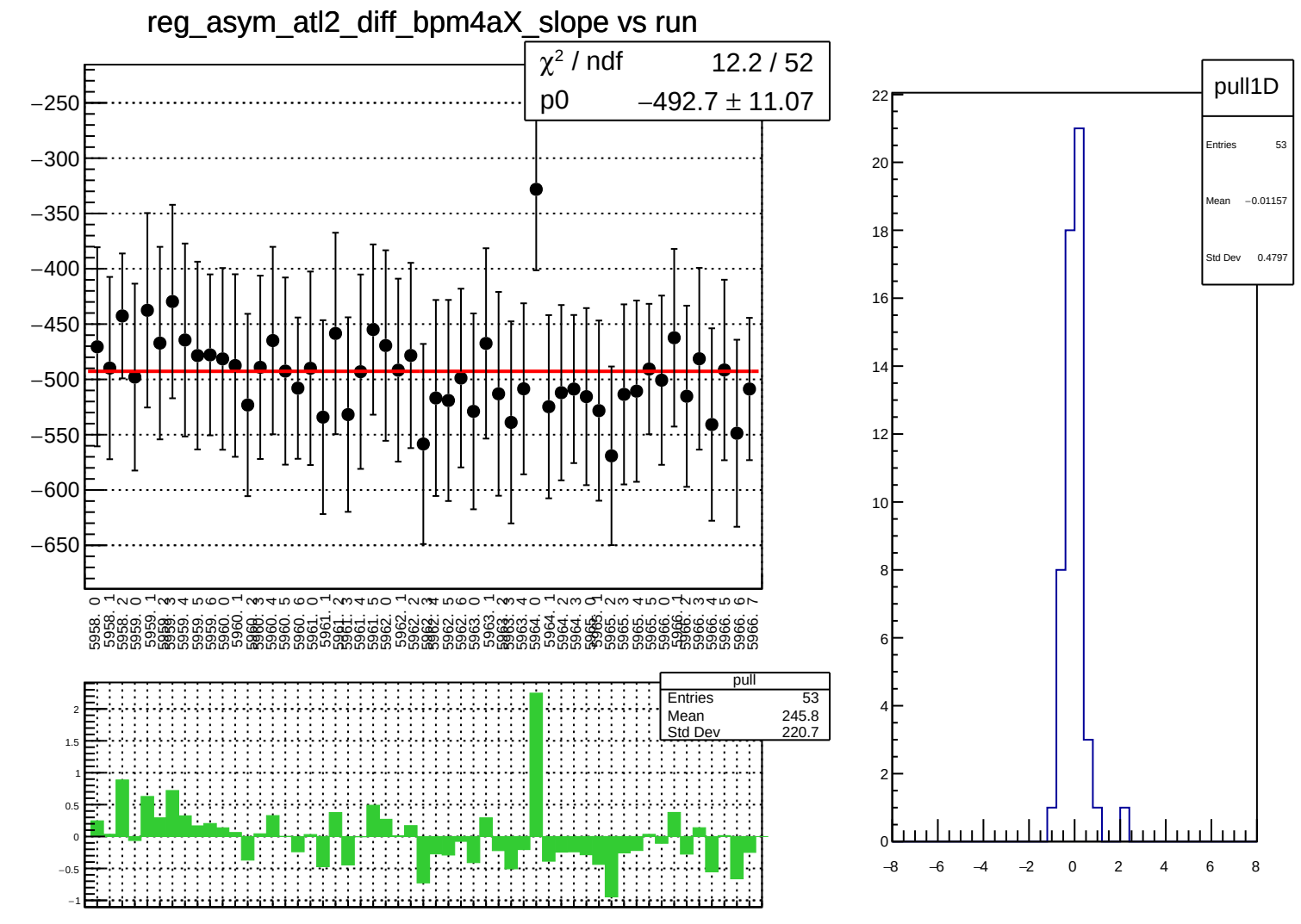

pull1D
Entries 53
Mean 0.003909
Std Dev 0.9797

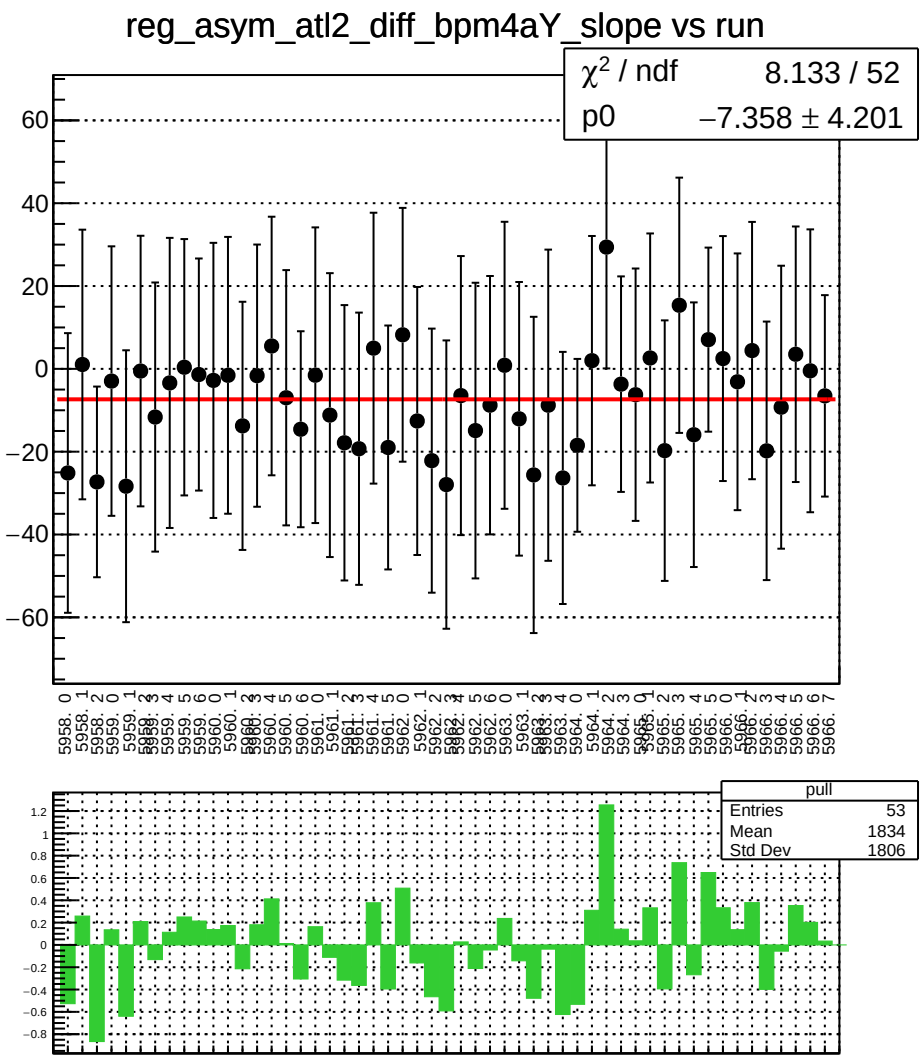

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 45.42 / 52
p0 −21.26 ± 2.655
pull
Entries 53
Mean −226.3
Std Dev 253.1

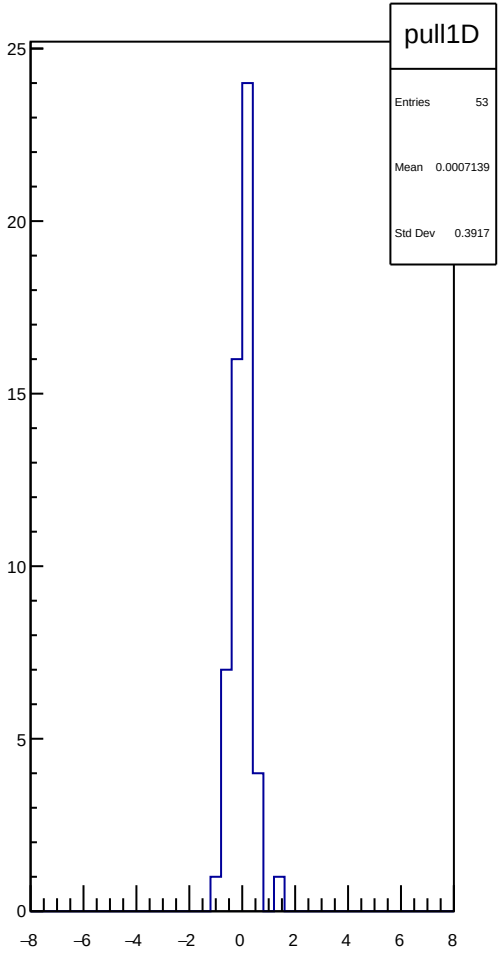

pull1D
Entries 53
Mean 0.01485
Std Dev 0.9256

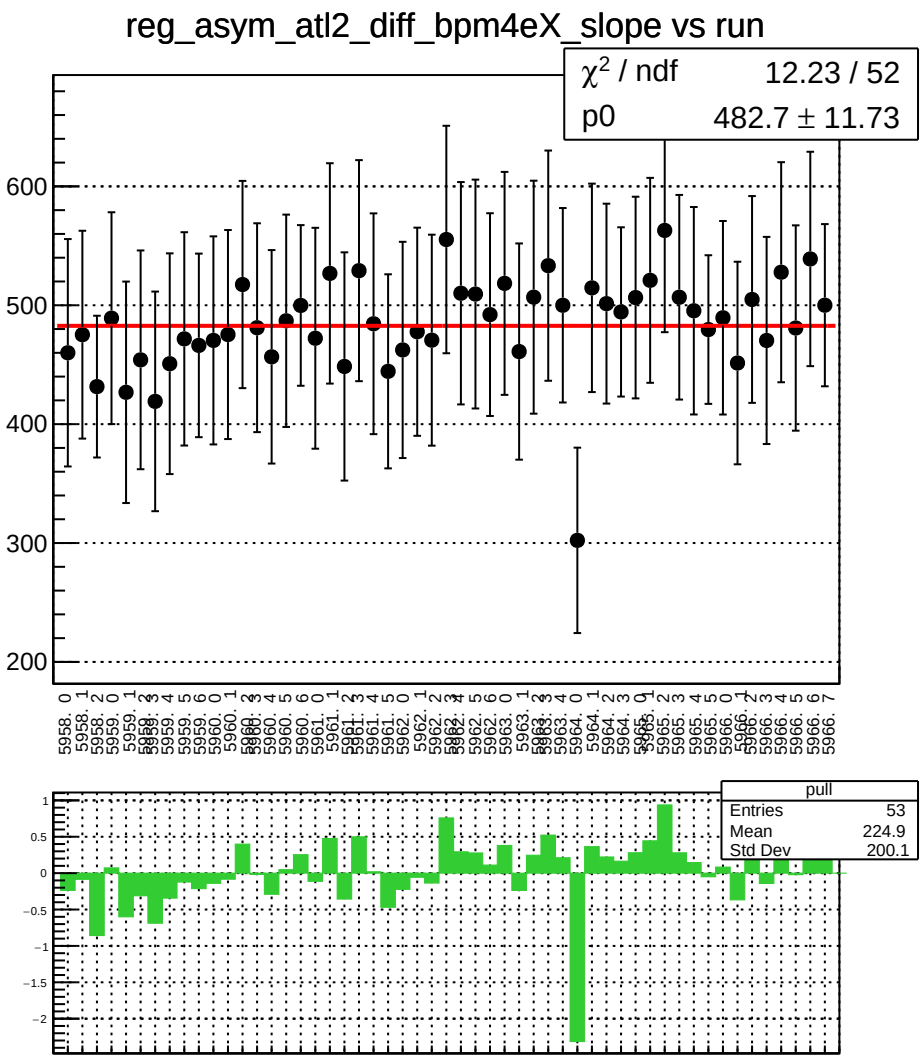

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 38.99 / 52
p0 −19.1 ± 0.2419
pull
Entries 53
Mean −52.26
Std Dev 119.6

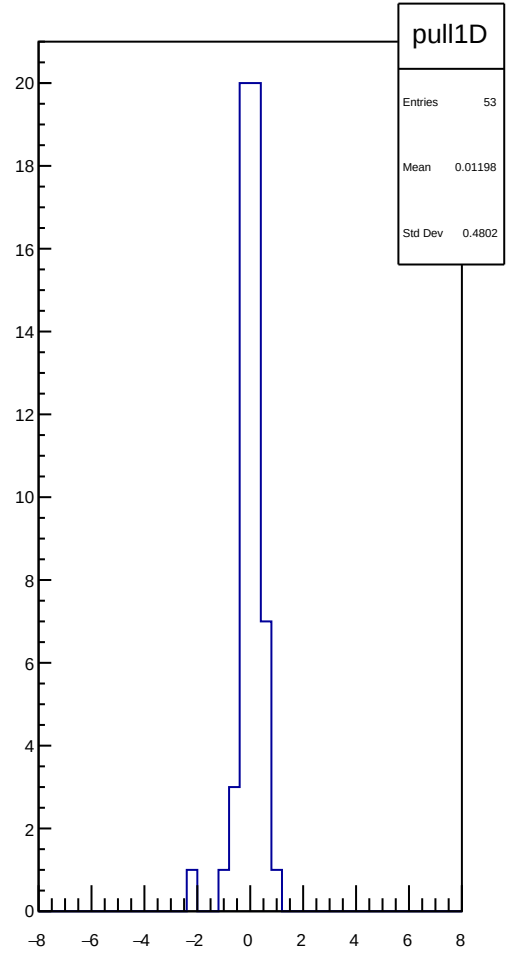

pull1D
Entries 53
Mean 0.012
Std Dev 0.8576

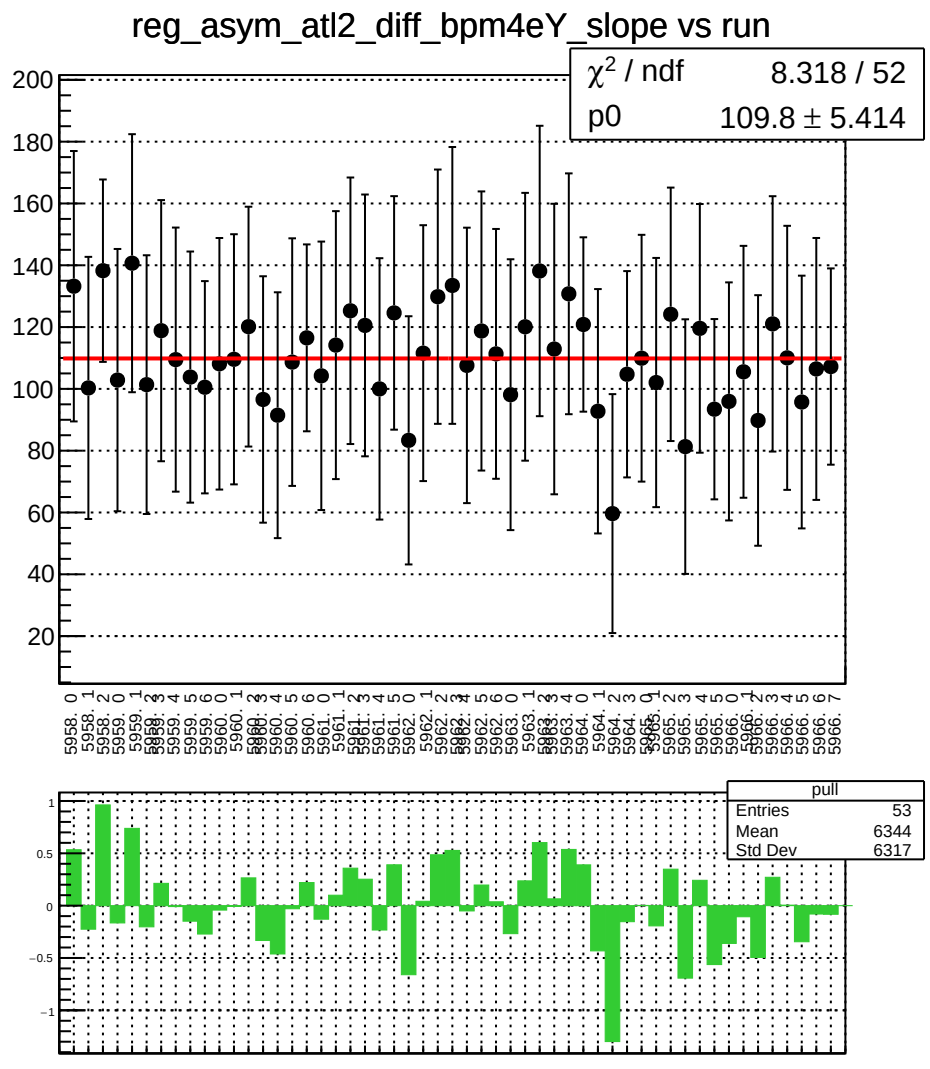

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 12.2 / 52
p0 −492.7 ± 11.07
pull
Entries 53
Mean 245.8
Std Dev 220.7
pull1D
Entries 53
Mean −0.01157
Std Dev 0.4797

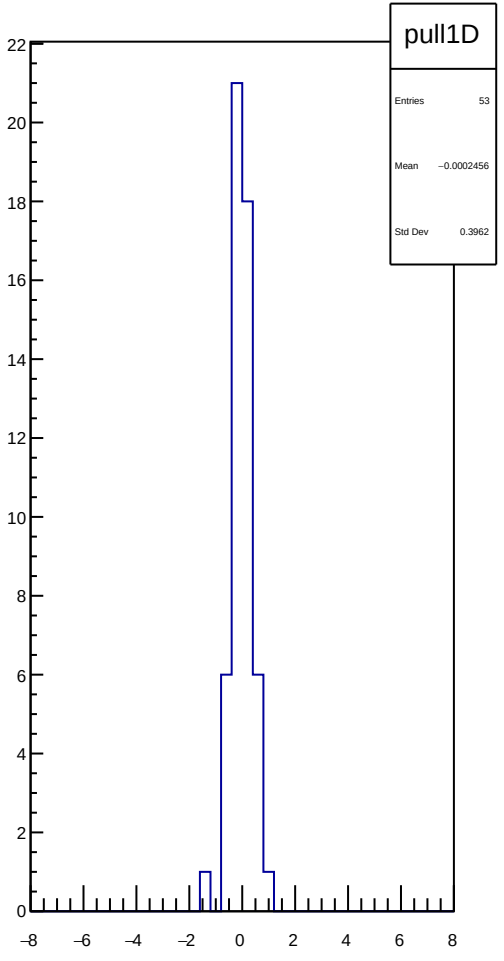

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 8.133 / 52
p0 −7.358 ± 4.201
pull
Entries 53
Mean 1834
Std Dev 1806

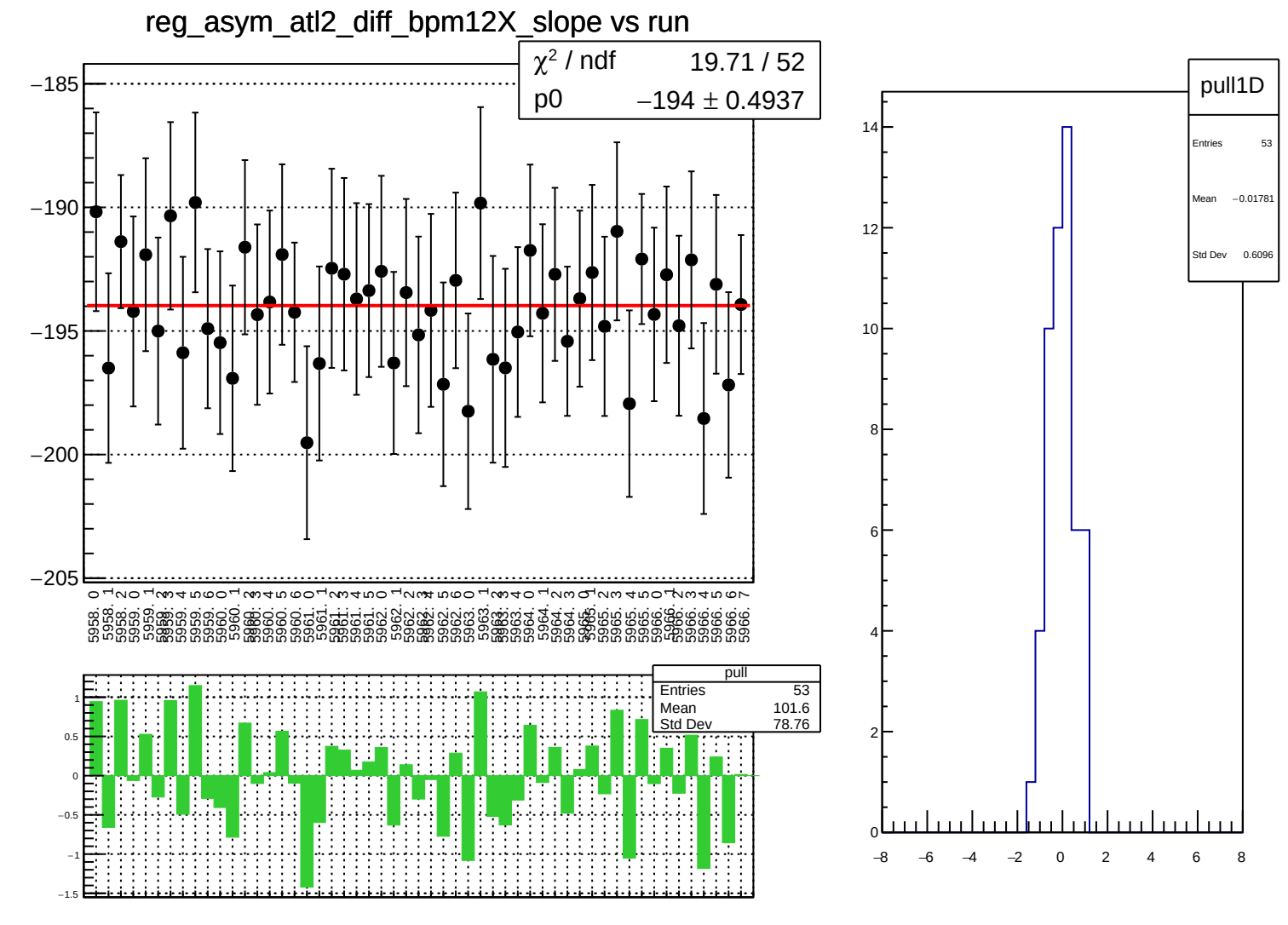

pull1D
Entries 53
Mean 0.0007139
Std Dev 0.3917

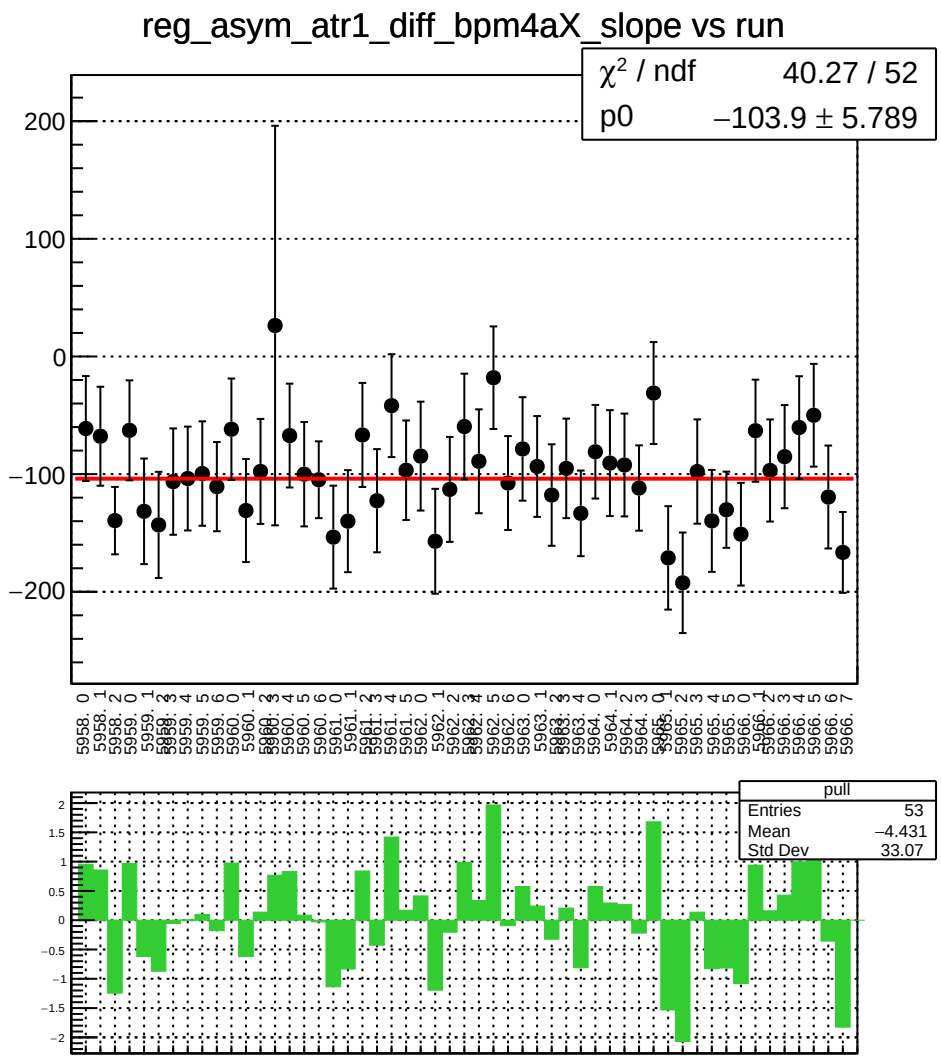

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 12.23 / 52
p0 482.7 ± 11.73
pull
Entries 53
Mean 224.9
Std Dev 200.1

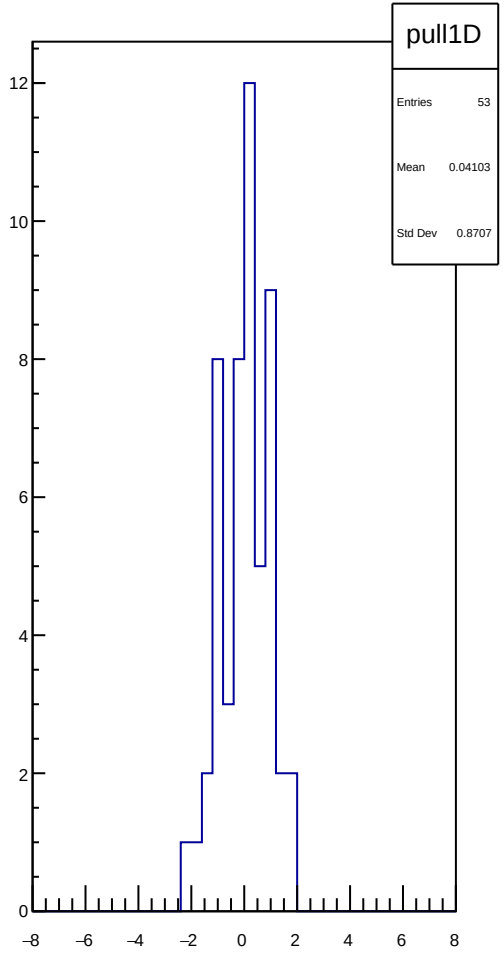

pull1D
Entries 53
Mean 0.01198
Std Dev 0.4802

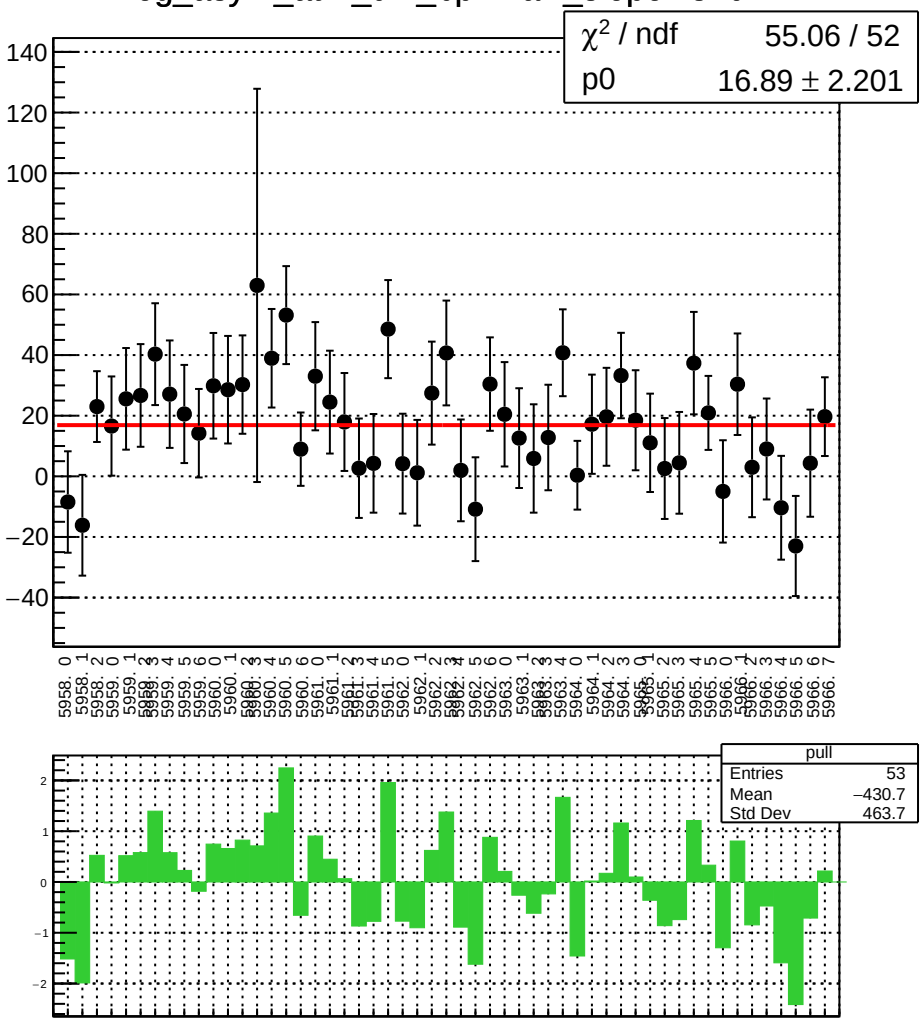

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 8.318 / 52
p0 109.8 ± 5.414
pull
Entries 53
Mean 6344
Std Dev 6317

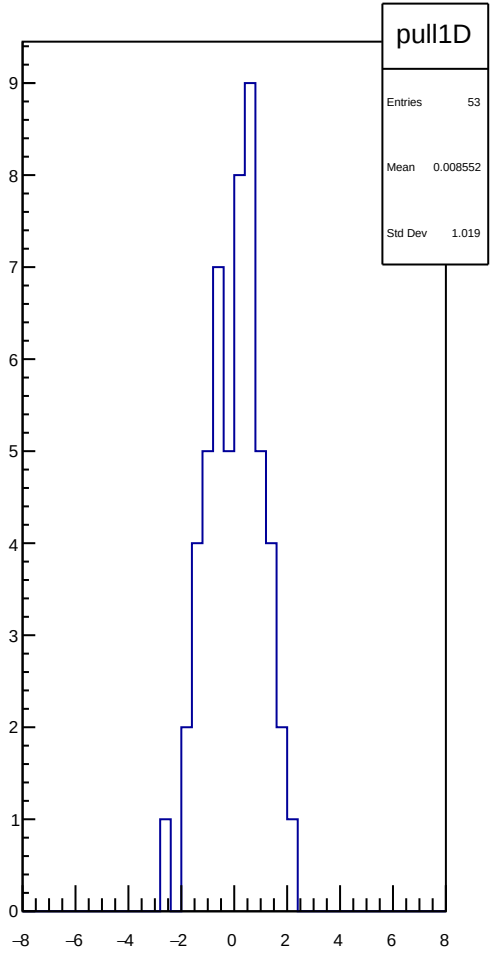

pull1D
Entries 53
Mean −0.0002456
Std Dev 0.3962

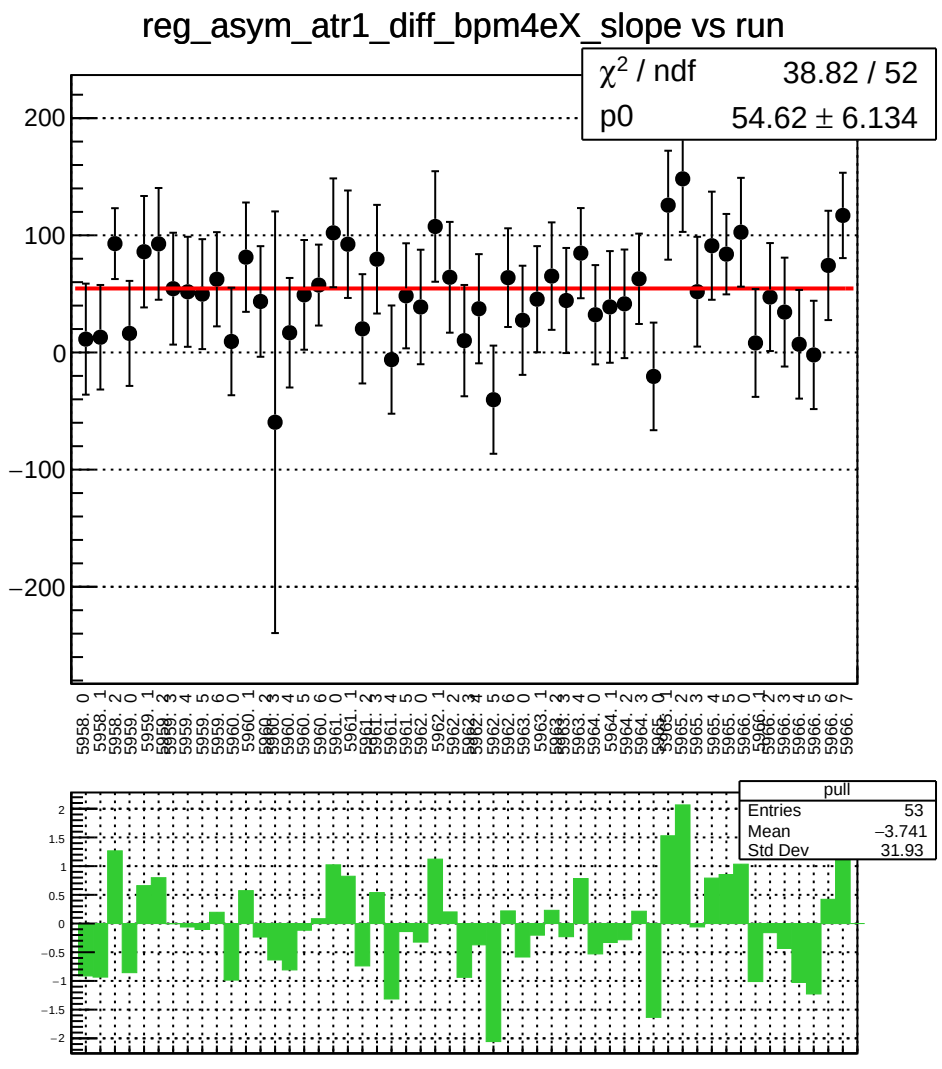

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 19.71 / 52
p0 −194 ± 0.4937
pull
Entries 53
Mean 101.6
Std Dev 78.76
pull1D
Entries 53
Mean −0.01781
Std Dev 0.6096

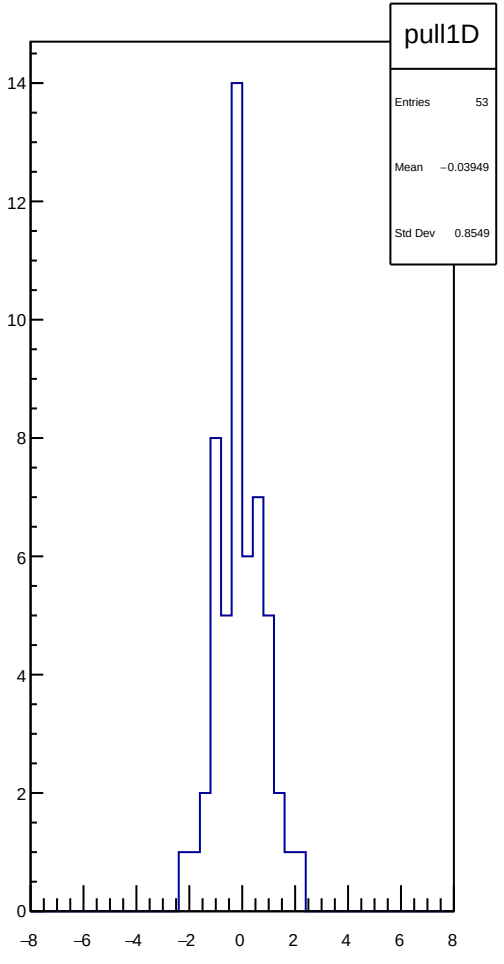

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 40.27 / 52
p0 −103.9 ± 5.789
200
100
0
−100
−200
pull
Entries 53
Mean −4.431
Std Dev 33.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

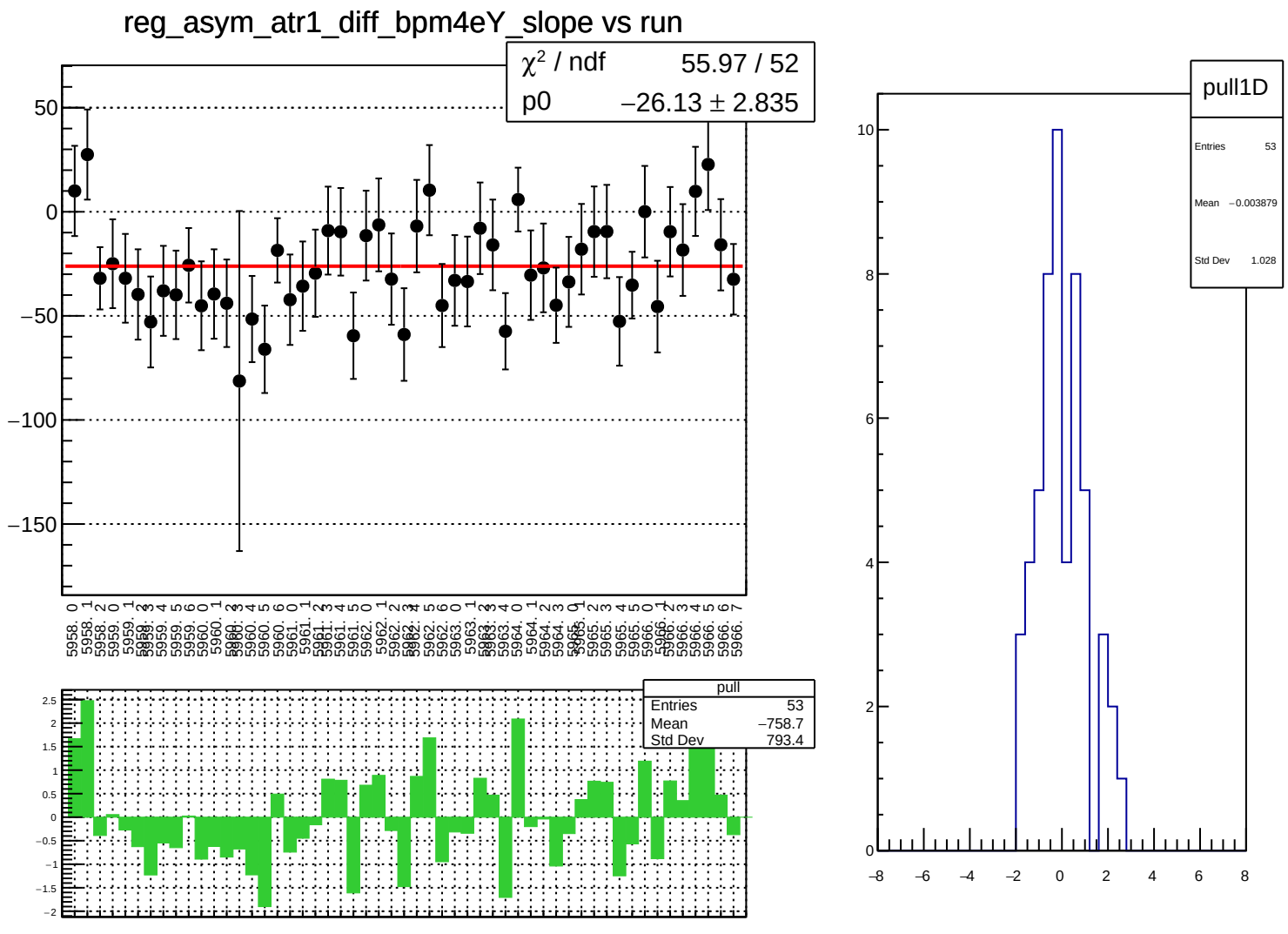

pull1D
Entries 53
Mean 0.04103
Std Dev 0.8707
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

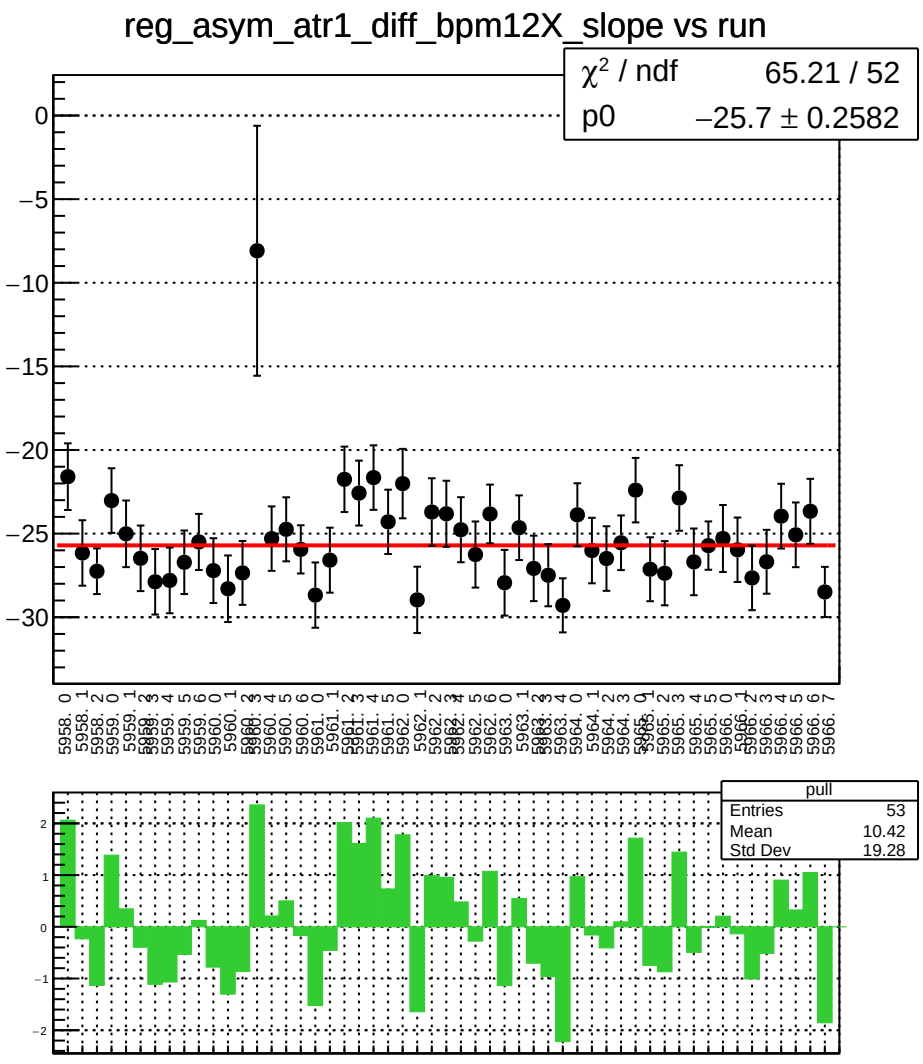

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 55.06 / 52
p0 16.89 ± 2.201
pull
Entries 53
Mean −430.7
Std Dev 463.7

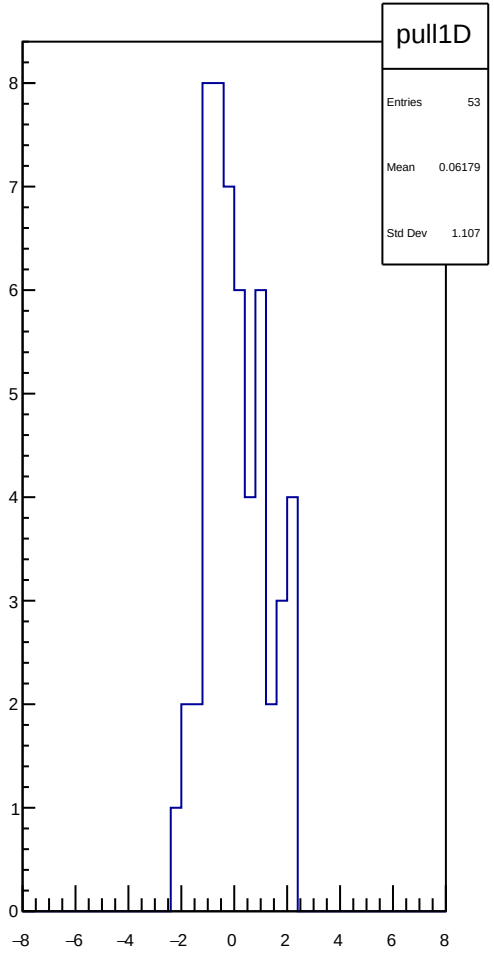

pull1D
Entries 53
Mean 0.008552
Std Dev 1.019

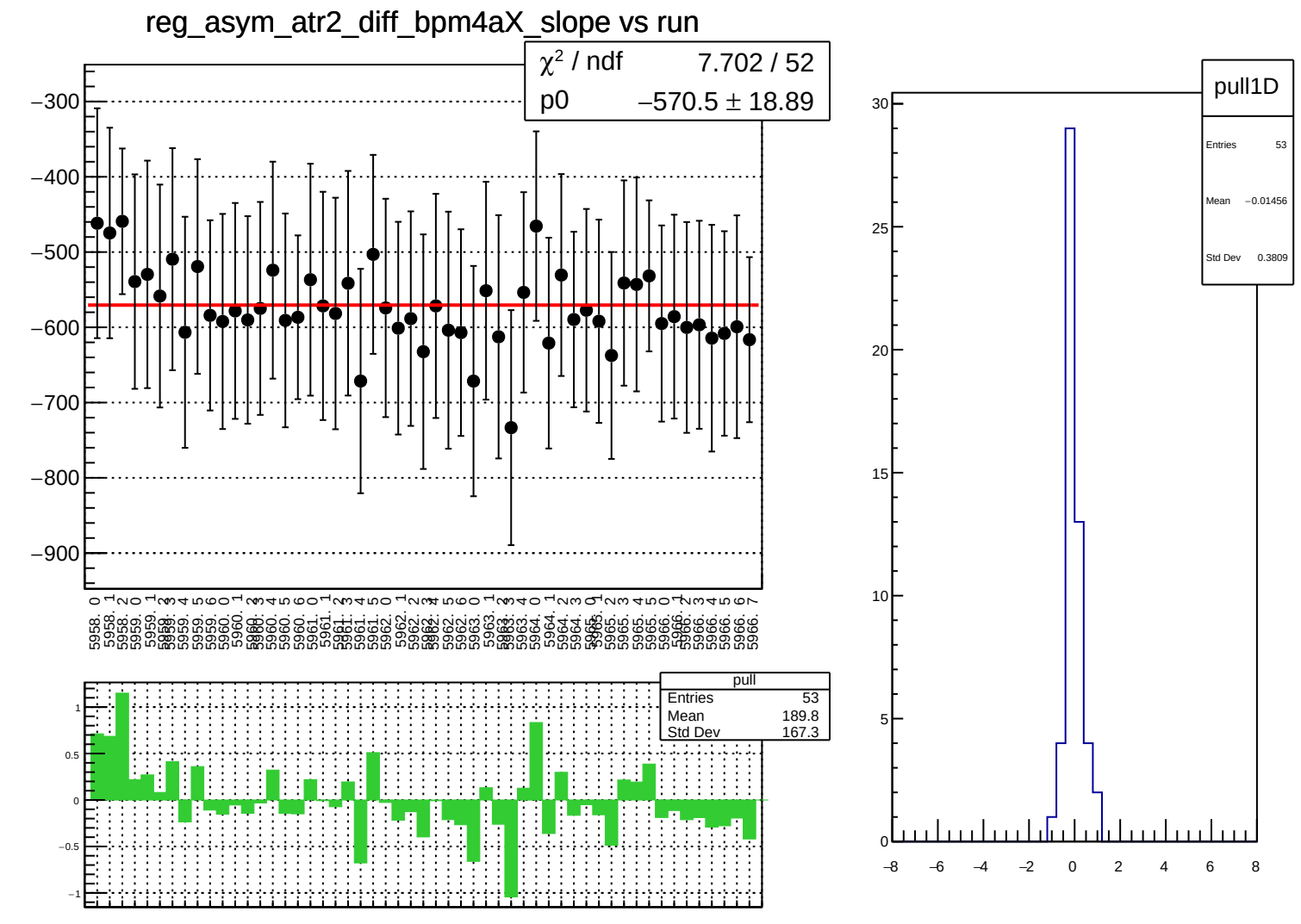

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 38.82 / 52
p0 54.62 ± 6.134
200
100
0
−100
−200
pull
Entries 53
Mean −3.741
Std Dev 31.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

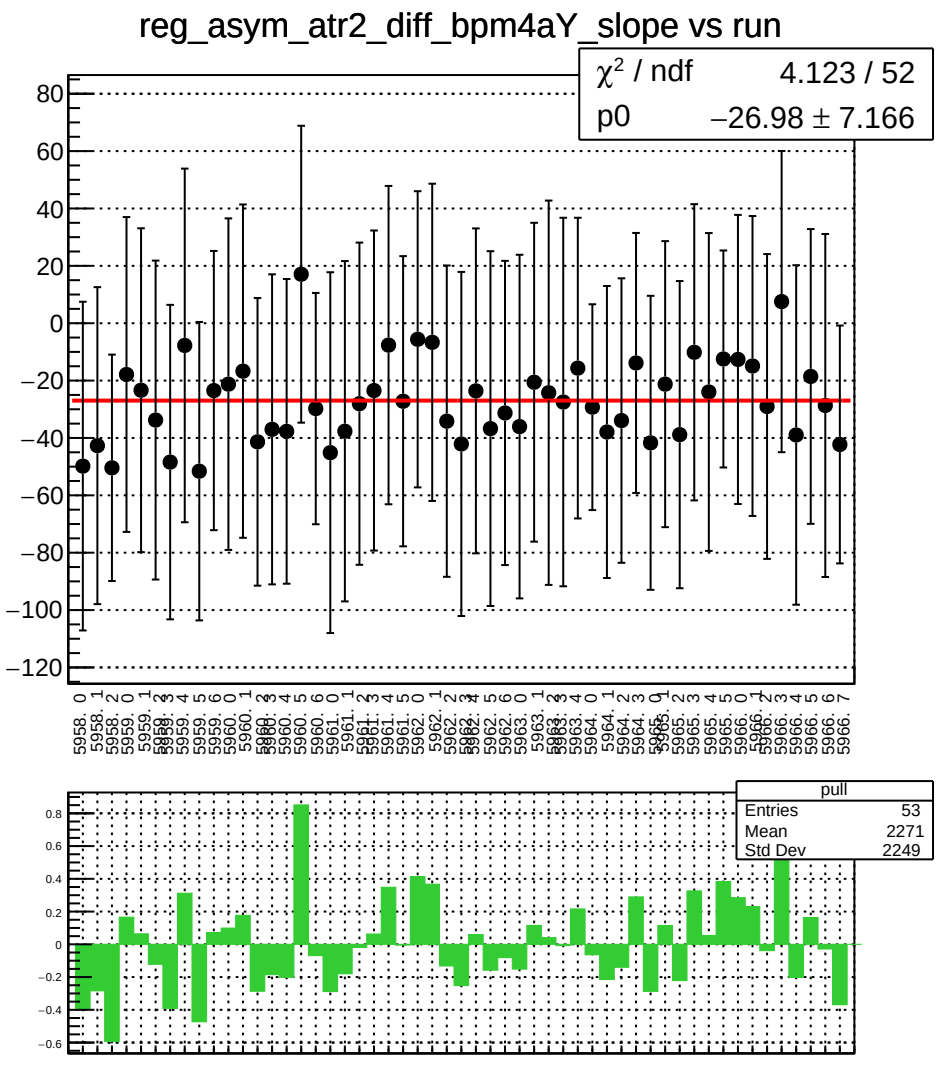

pull1D
Entries 53
Mean −0.03949
Std Dev 0.8549
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

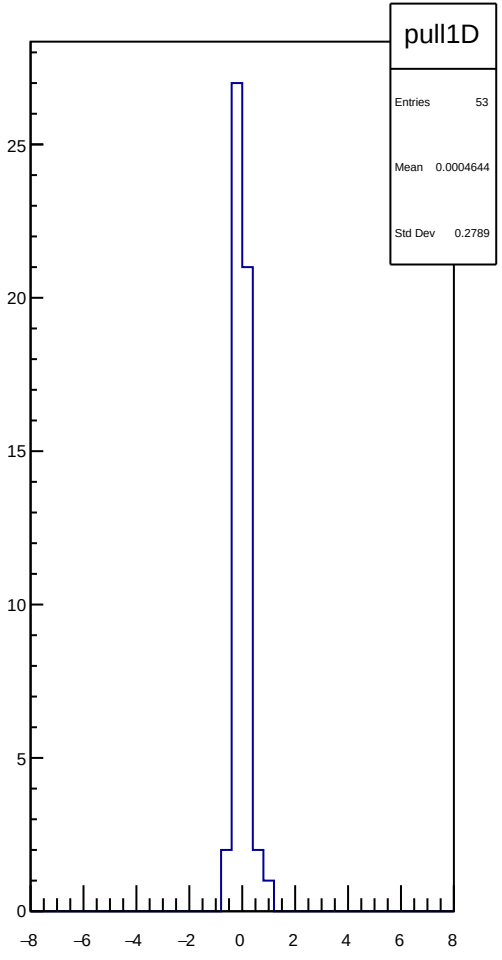

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 55.97 / 52
p0 −26.13 ± 2.835
pull
Entries 53
Mean −758.7
Std Dev 793.4
pull1D
Entries 53
Mean −0.003879
Std Dev 1.028

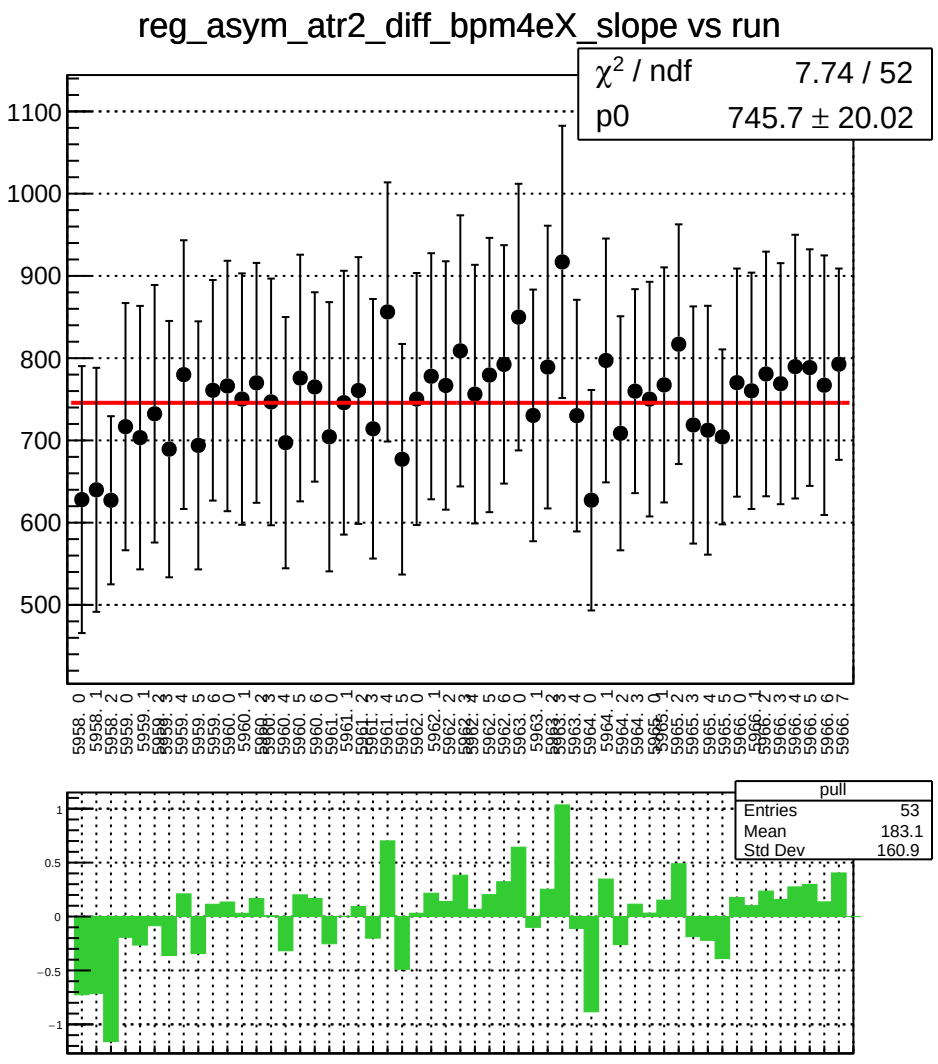

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 65.21 / 52
p0 −25.7 ± 0.2582
pull
Entries 53
Mean 10.42
Std Dev 19.28

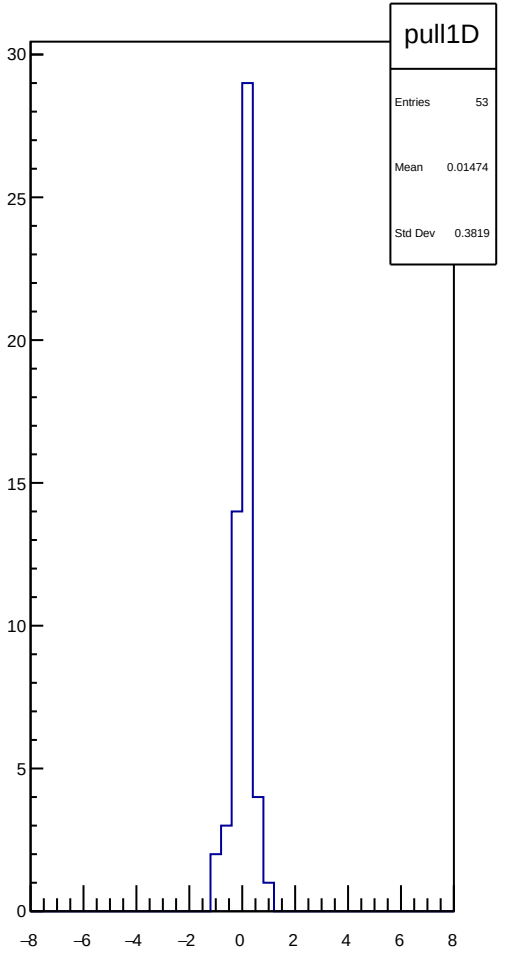

pull1D
Entries 53
Mean 0.06179
Std Dev 1.107

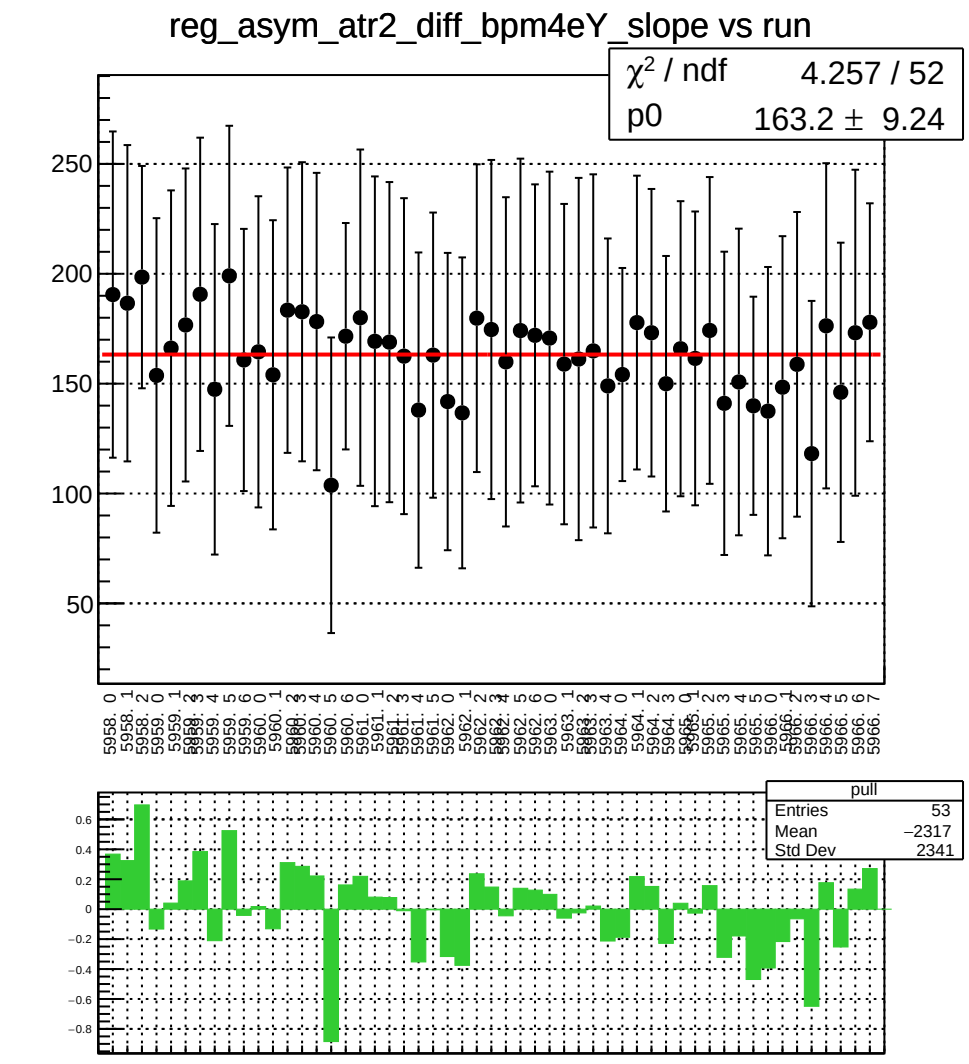

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 7.702 / 52
p0 −570.5 ± 18.89
pull
Entries 53
Mean 189.8
Std Dev 167.3
pull1D
Entries 53
Mean −0.01456
Std Dev 0.3809

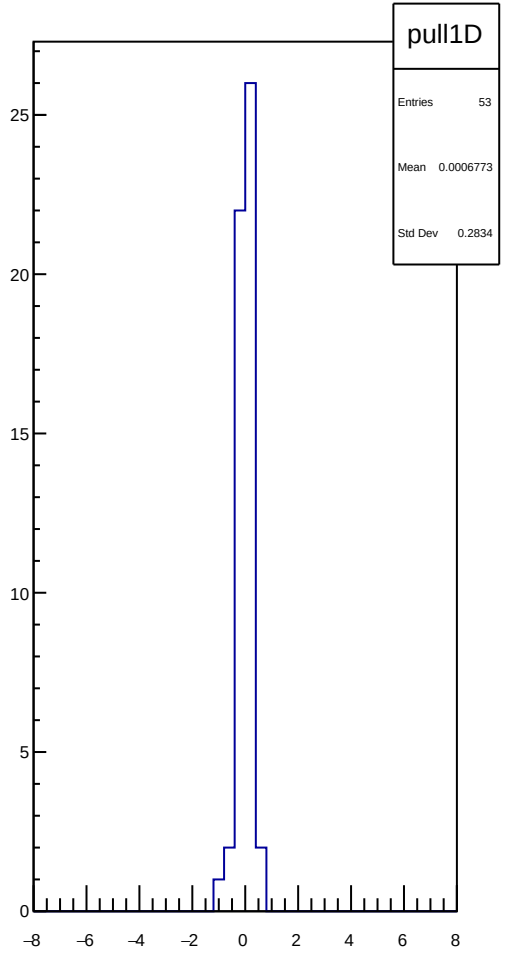

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.123 / 52
p0 −26.98 ± 7.166
pull
Entries 53
Mean 2271
Std Dev 2249

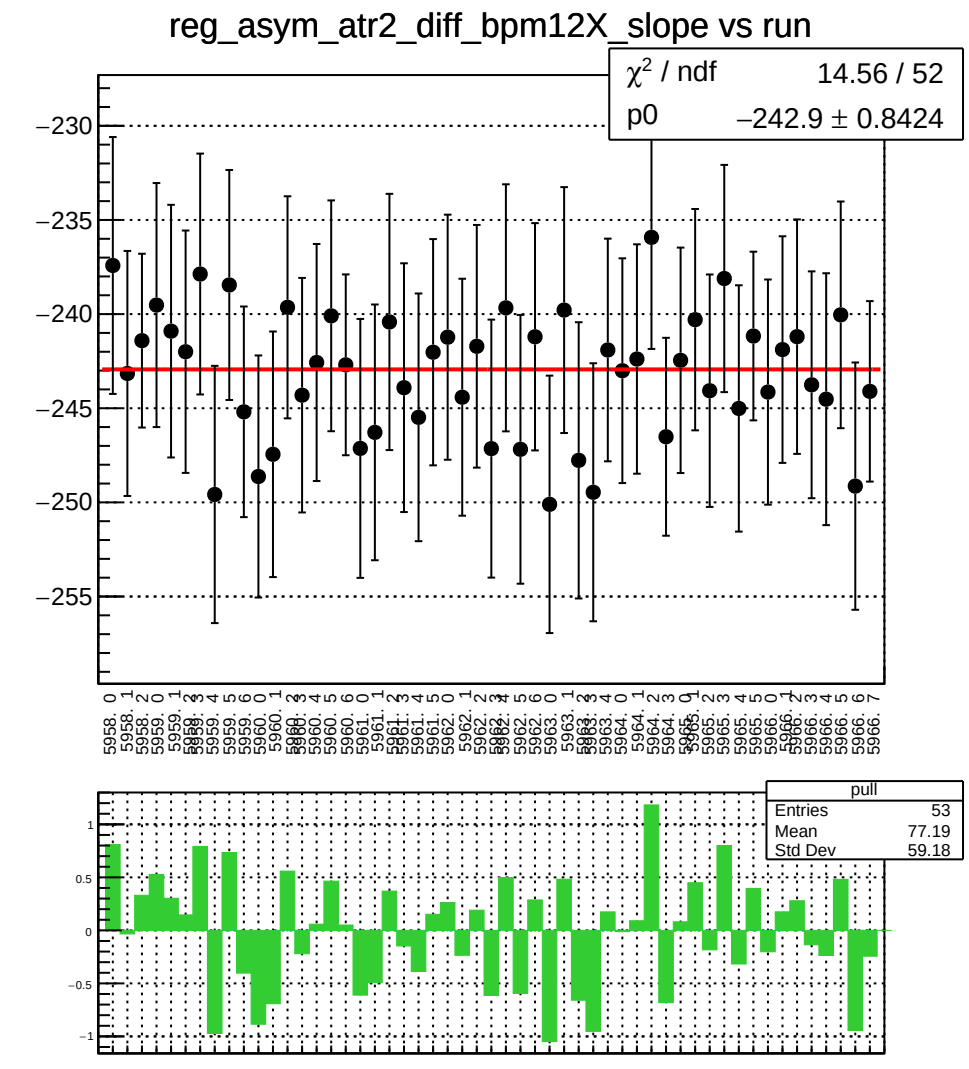

pull1D
Entries 53
Mean 0.0004644
Std Dev 0.2789

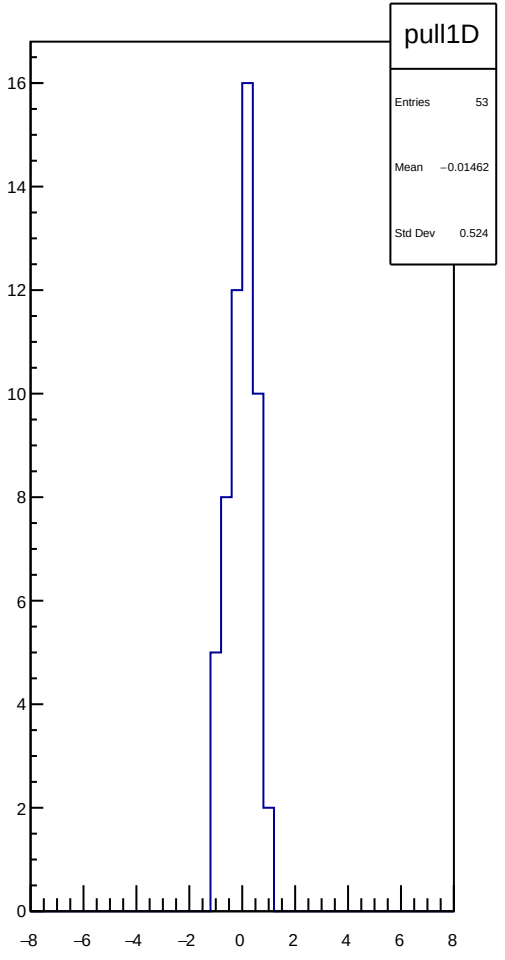

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 7.74 / 52
p0 745.7 ± 20.02
pull
Entries 53
Mean 183.1
Std Dev 160.9

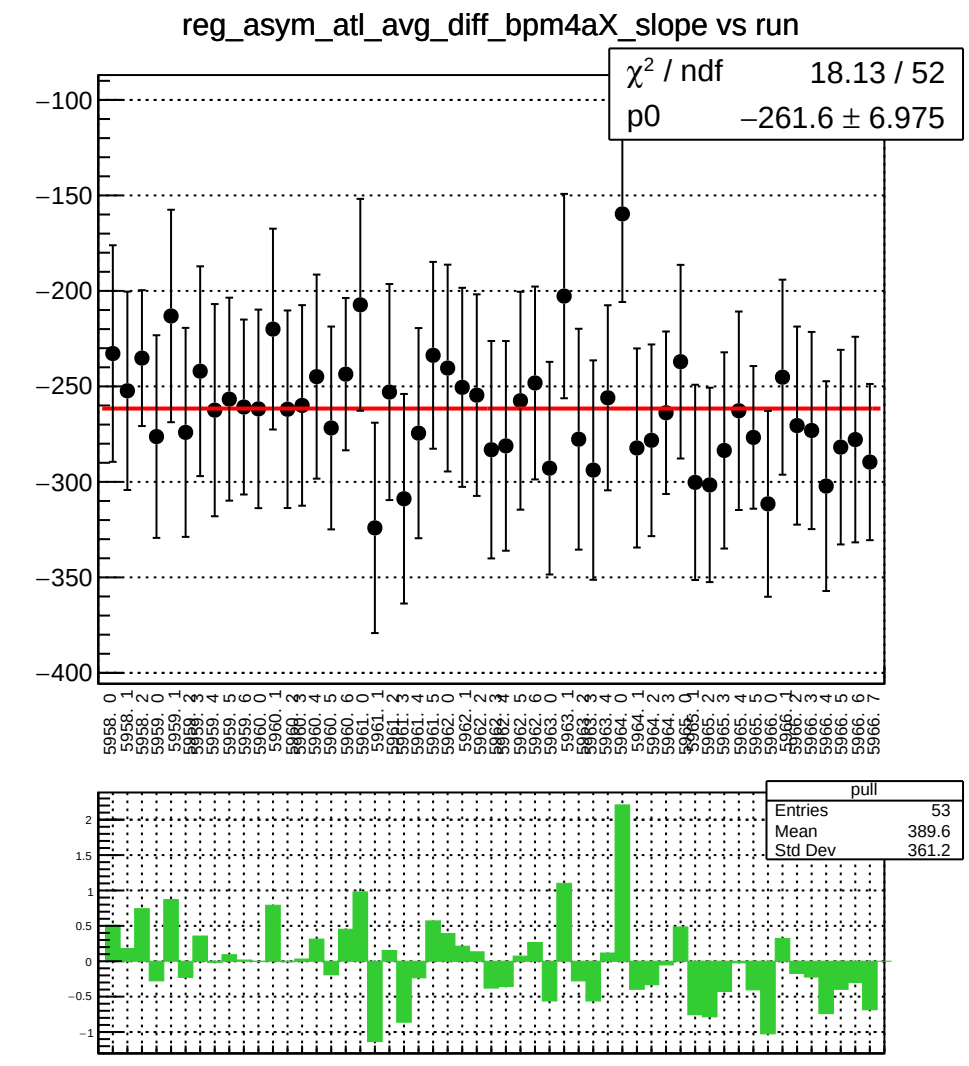

pull1D
Entries 53
Mean 0.01474
Std Dev 0.3819

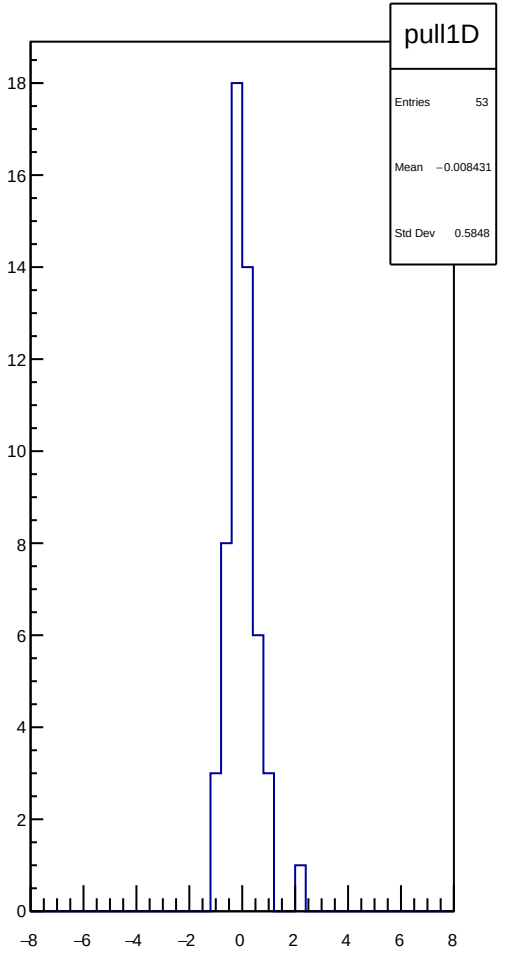

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.257 / 52
p0 163.2 ± 9.24
250
200
150
100
50
pull
Entries 53
Mean −2317
Std Dev 2341
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

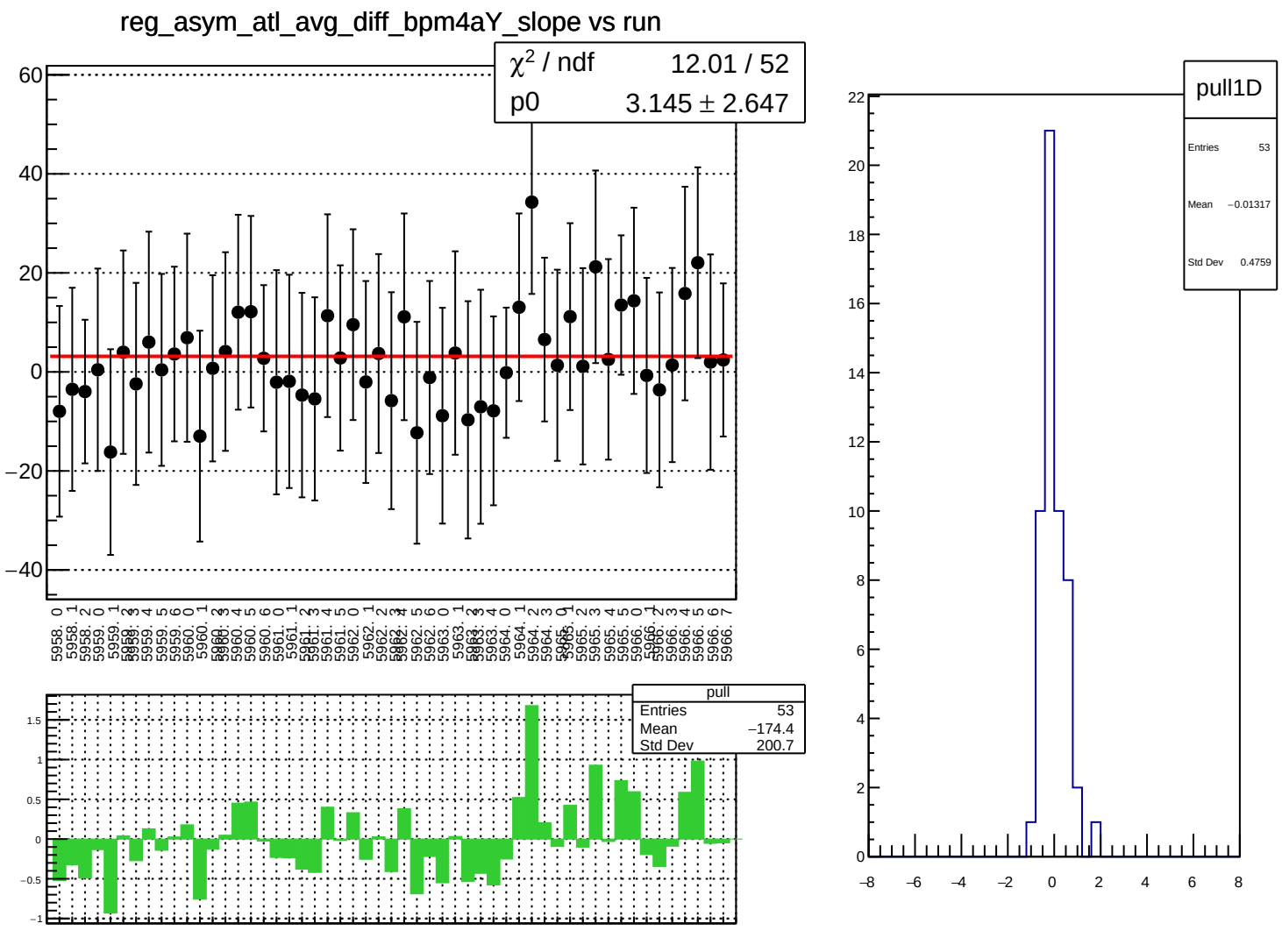

pull1D
Entries 53
Mean 0.0006773
Std Dev 0.2834
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

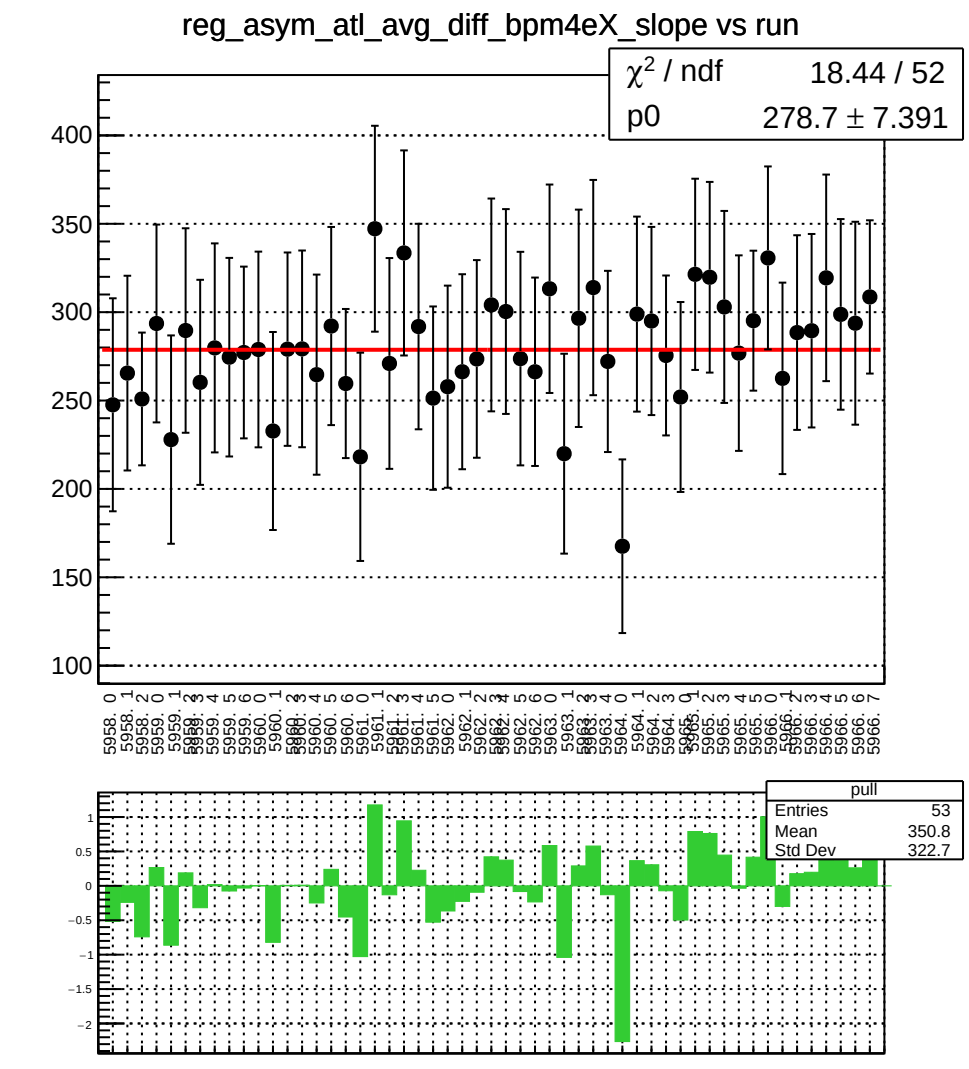

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 14.56 / 52
p0 −242.9 ± 0.8424
pull
Entries 53
Mean 77.19
Std Dev 59.18

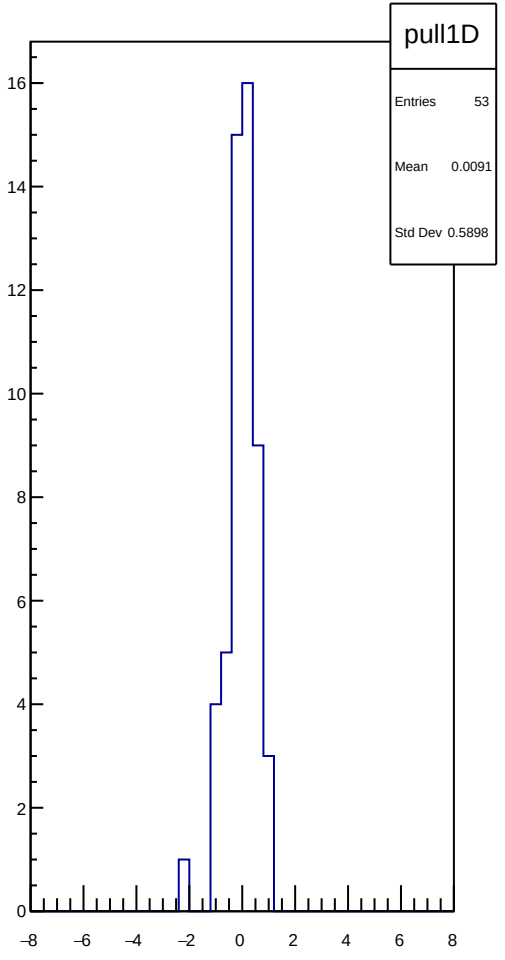

pull1D
Entries 53
Mean −0.01462
Std Dev 0.524

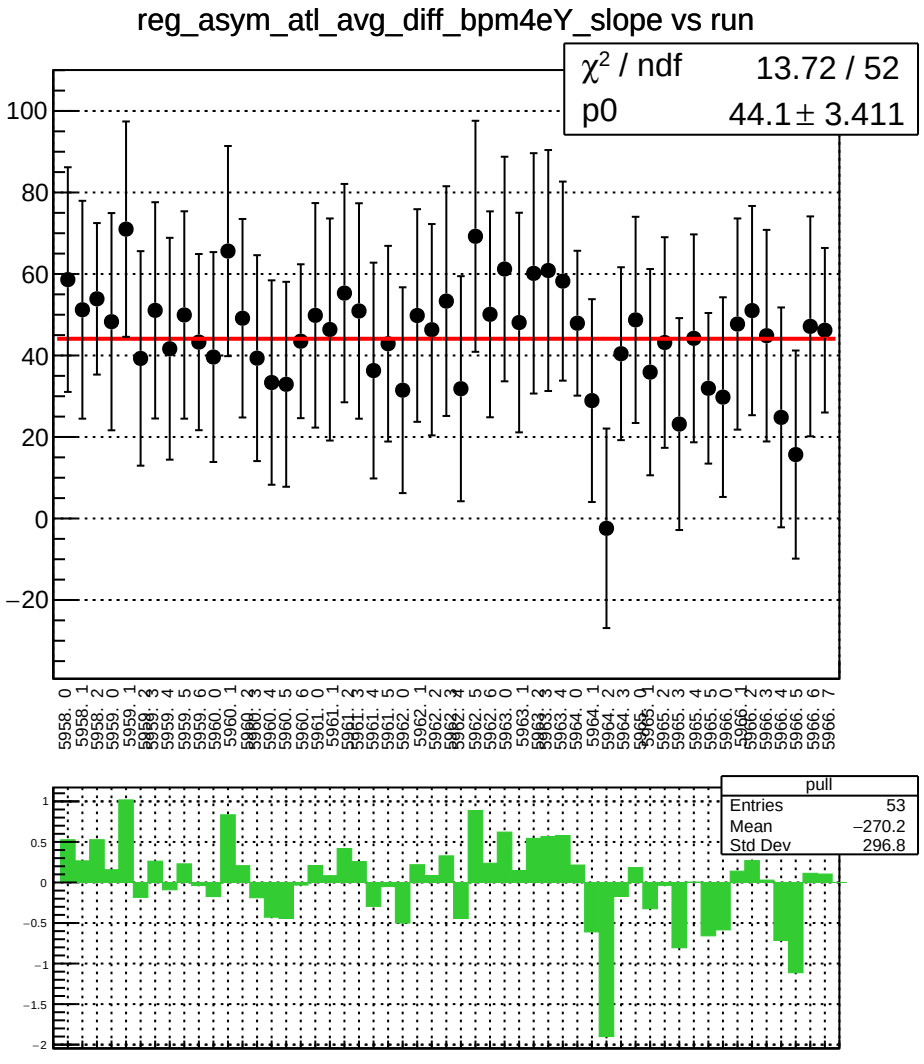

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.13 / 52
p0 −261.6 ± 6.975
pull
Entries 53
Mean 389.6
Std Dev 361.2

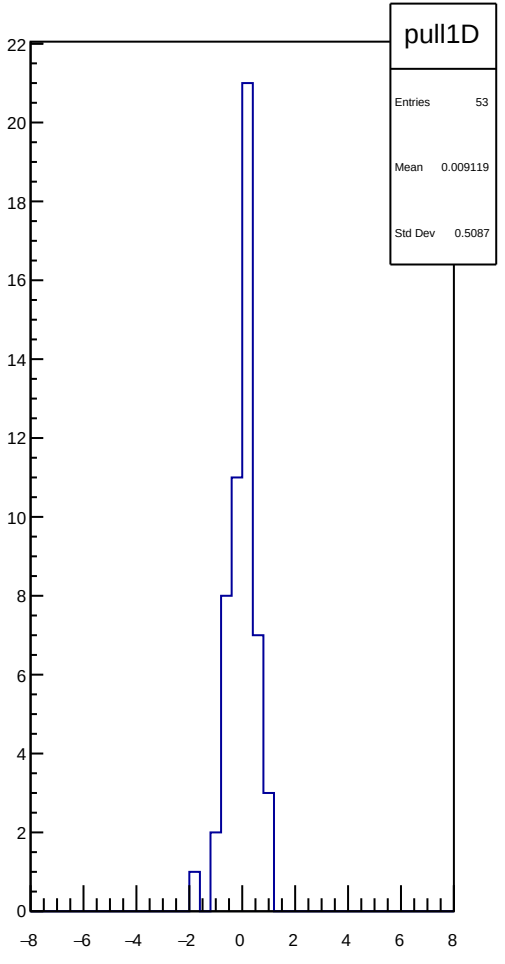

pull1D
Entries 53
Mean −0.008431
Std Dev 0.5848

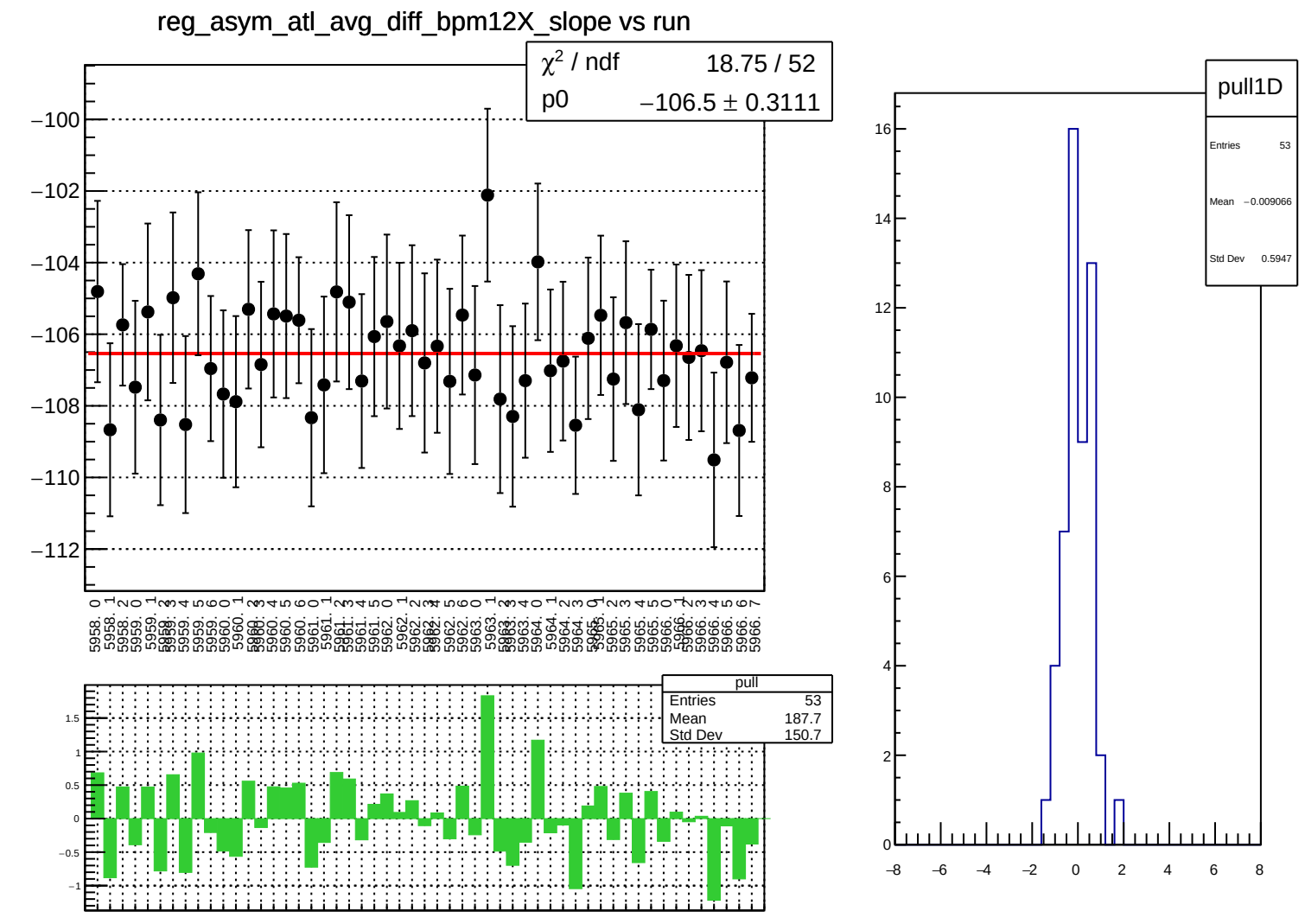

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.01 / 52
p0 3.145 ± 2.647
pull
Entries 53
Mean −174.4
Std Dev 200.7
pull1D
Entries 53
Mean −0.01317
Std Dev 0.4759

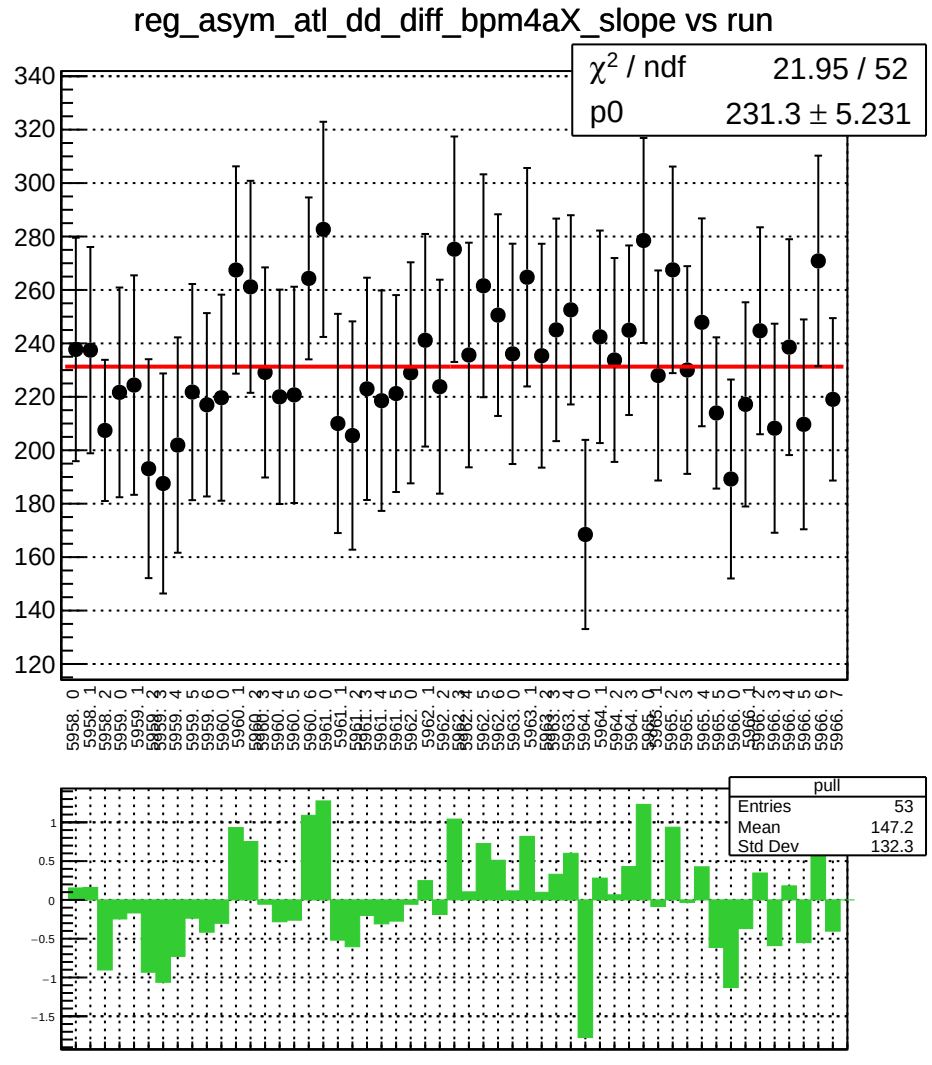

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.44 / 52
p0 278.7 ± 7.391
pull
Entries 53
Mean 350.8
Std Dev 322.7

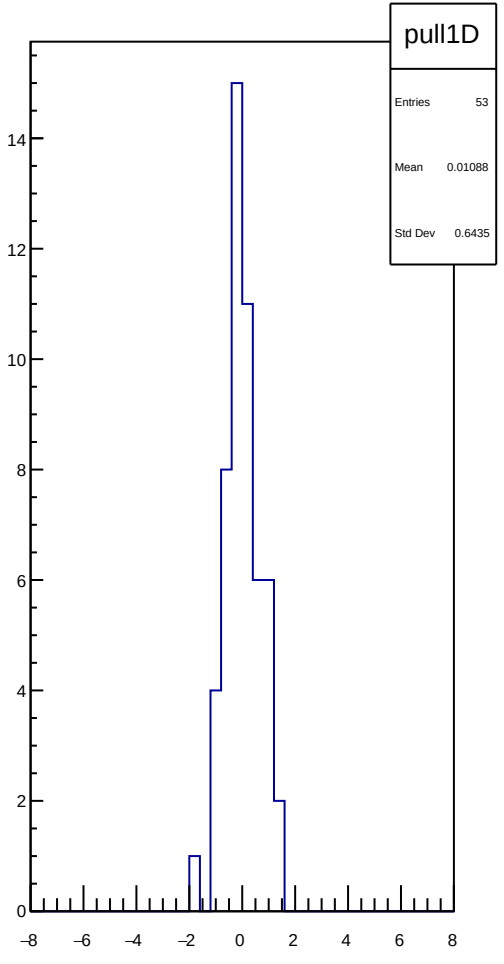

pull1D
Entries 53
Mean 0.0091
Std Dev 0.5898

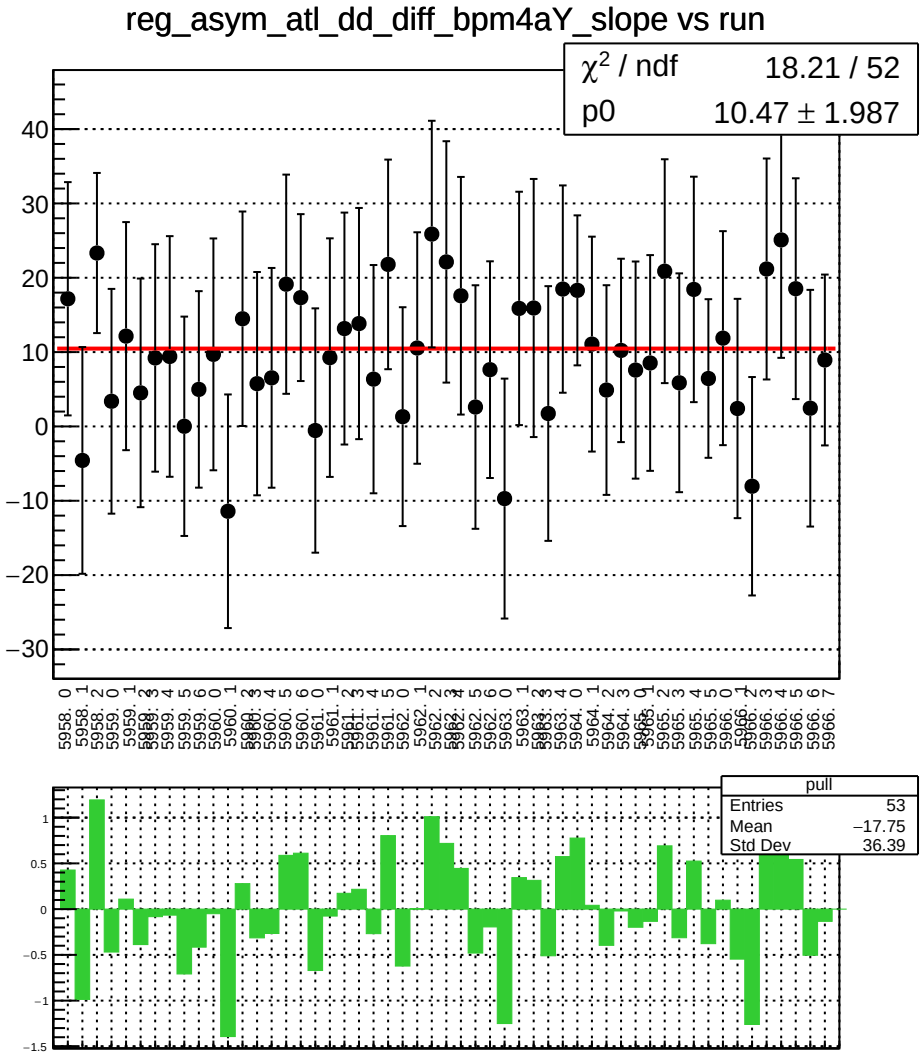

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.72 / 52
p0 44.1 ± 3.411
pull
Entries 53
Mean −270.2
Std Dev 296.8

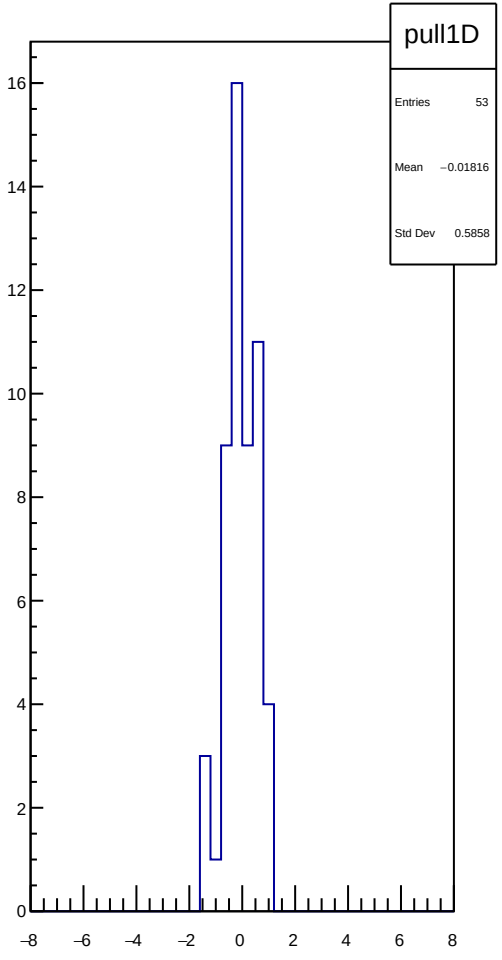

pull1D
Entries 53
Mean 0.009119
Std Dev 0.5087

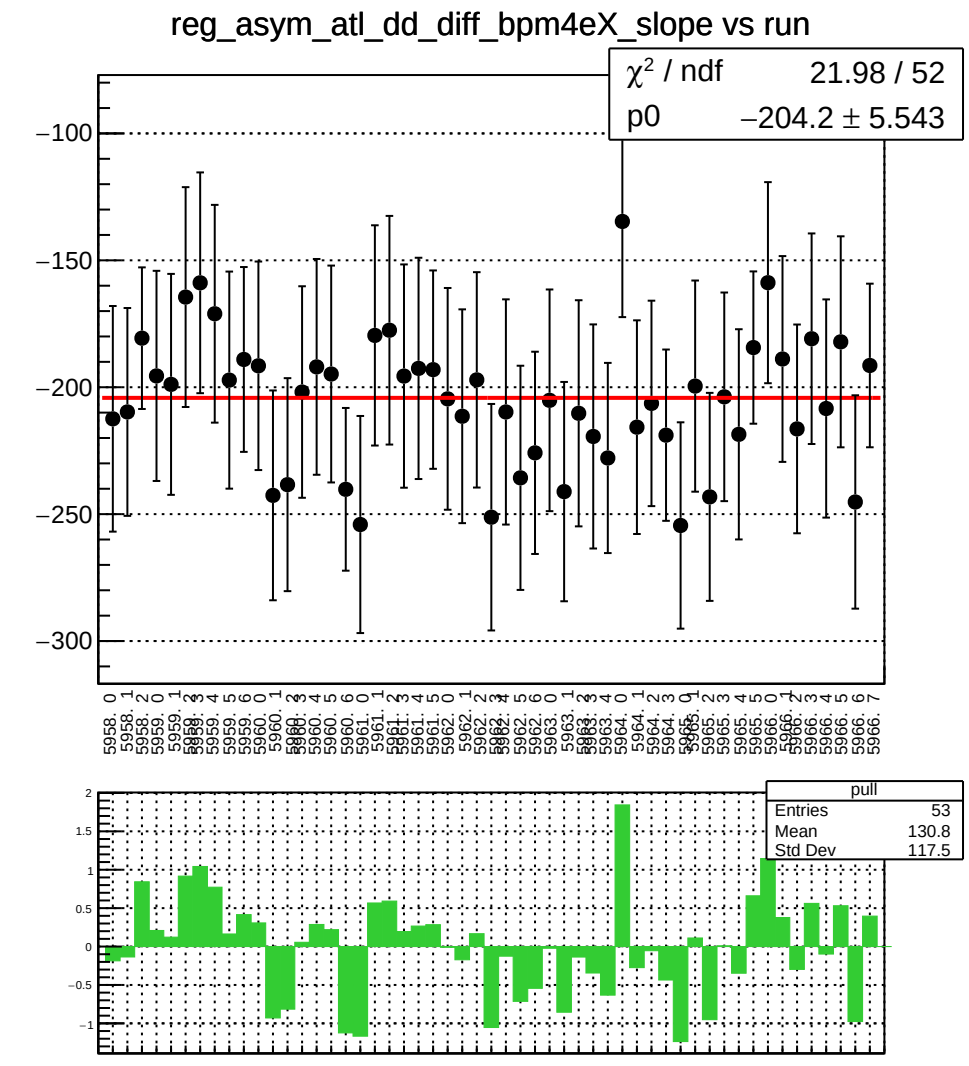

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 18.75 / 52
p0 −106.5 ± 0.3111
pull
Entries 53
Mean 187.7
Std Dev 150.7
pull1D
Entries 53
Mean −0.009066
Std Dev 0.5947

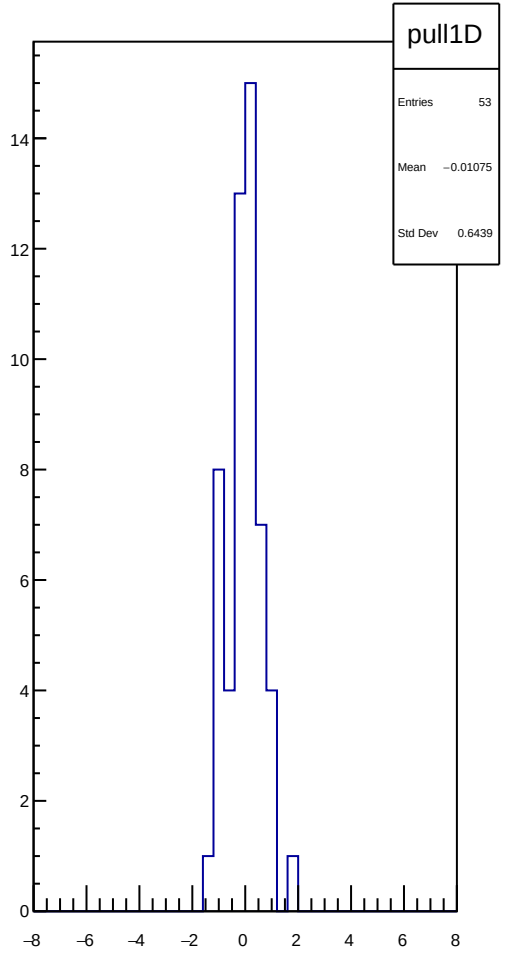

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.95 / 52
p0 231.3 ± 5.231
pull
Entries 53
Mean 147.2
Std Dev 132.3

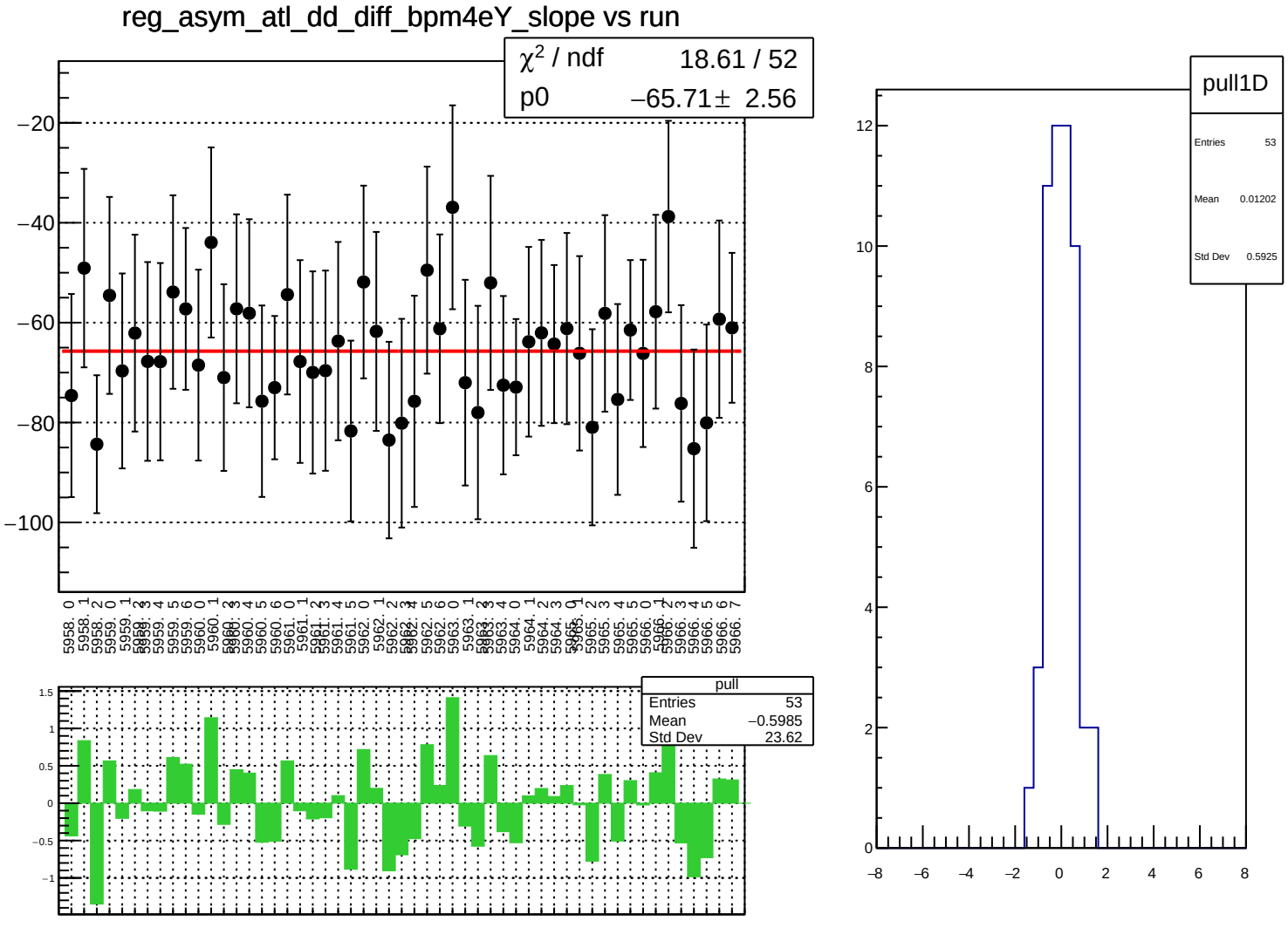

pull1D
Entries 53
Mean 0.01088
Std Dev 0.6435

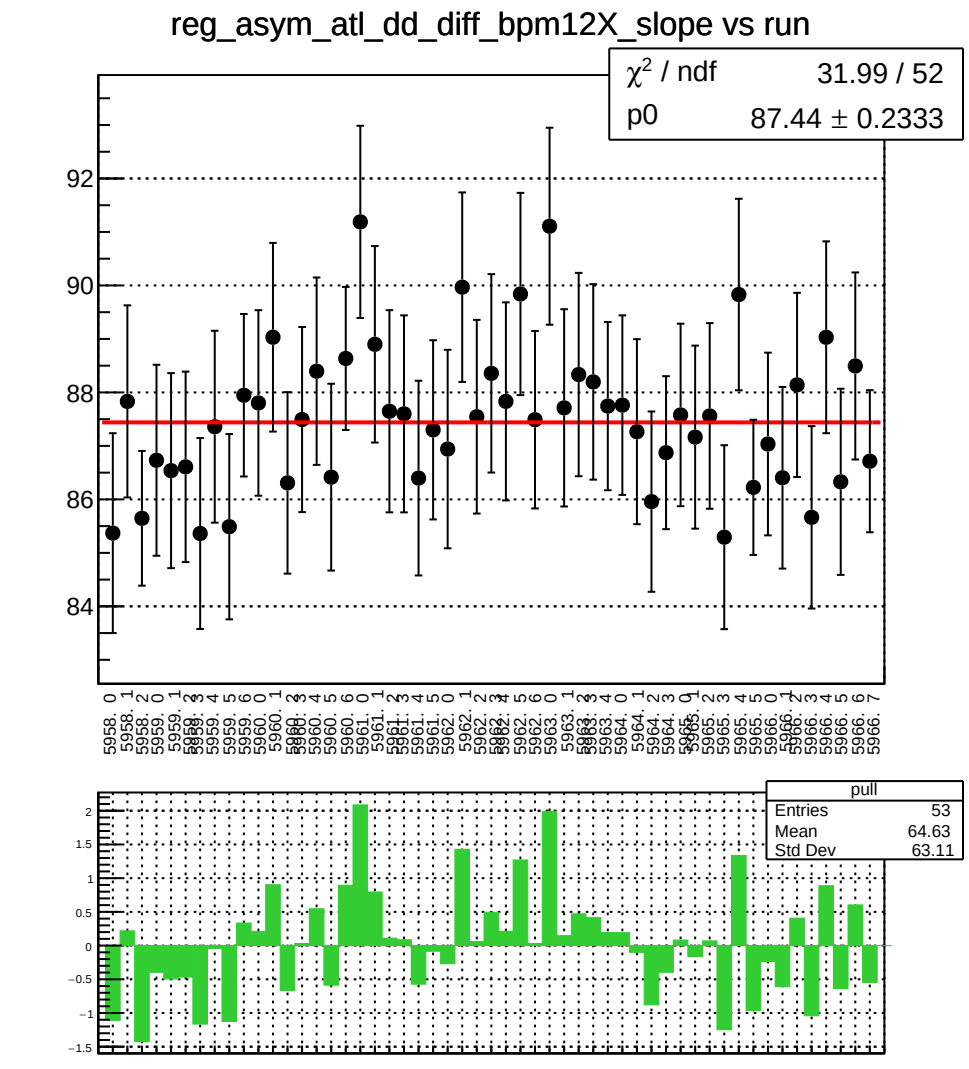

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.21 / 52
p0 10.47 ± 1.987
pull
Entries 53
Mean −17.75
Std Dev 36.39

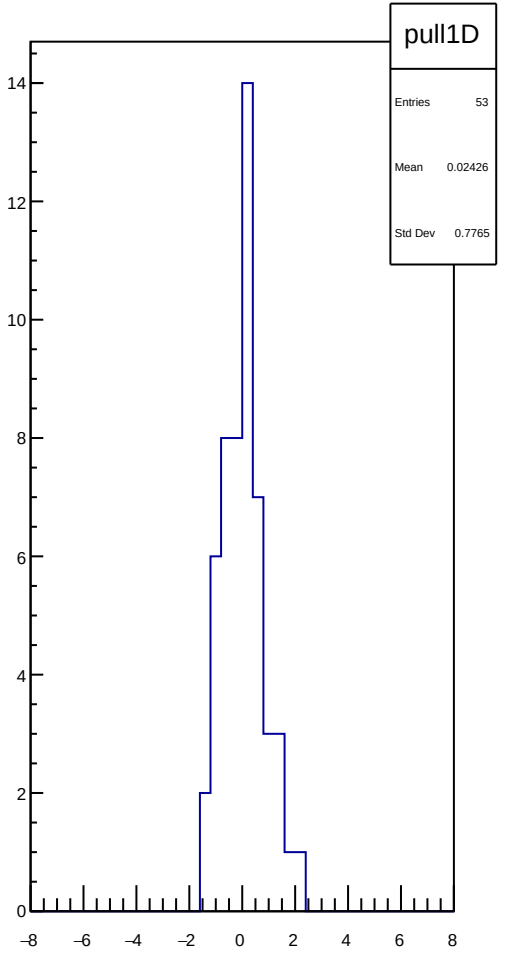

pull1D
Entries 53
Mean −0.01816
Std Dev 0.5858

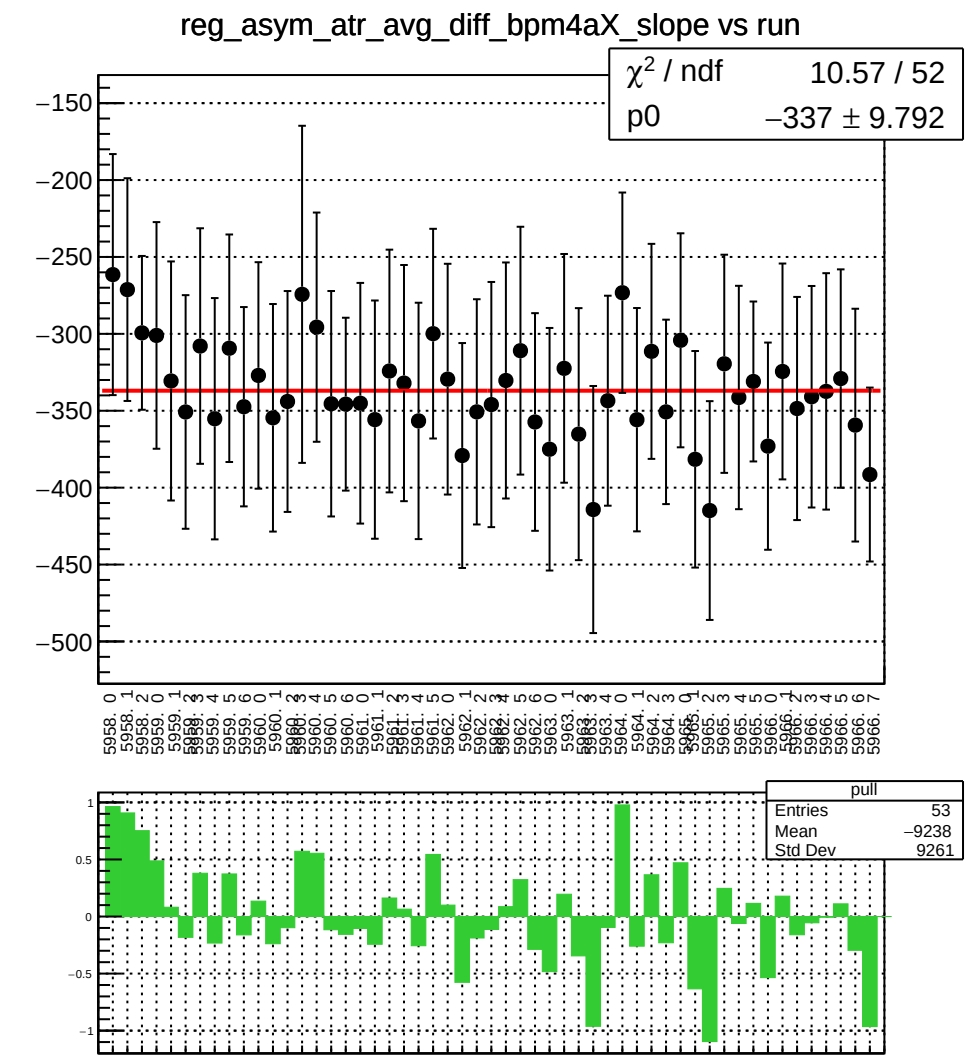

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.98 / 52
p0 −204.2 ± 5.543
pull
Entries 53
Mean 130.8
Std Dev 117.5

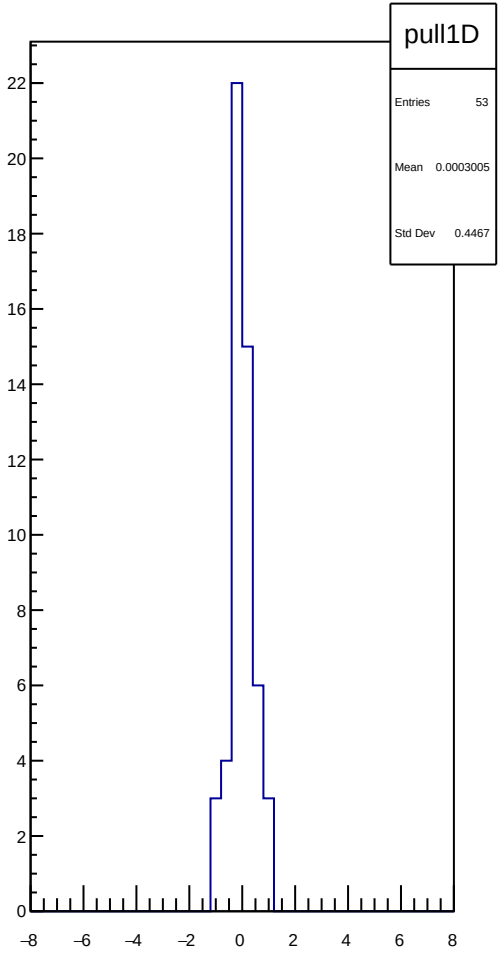

pull1D
Entries 53
Mean −0.01075
Std Dev 0.6439

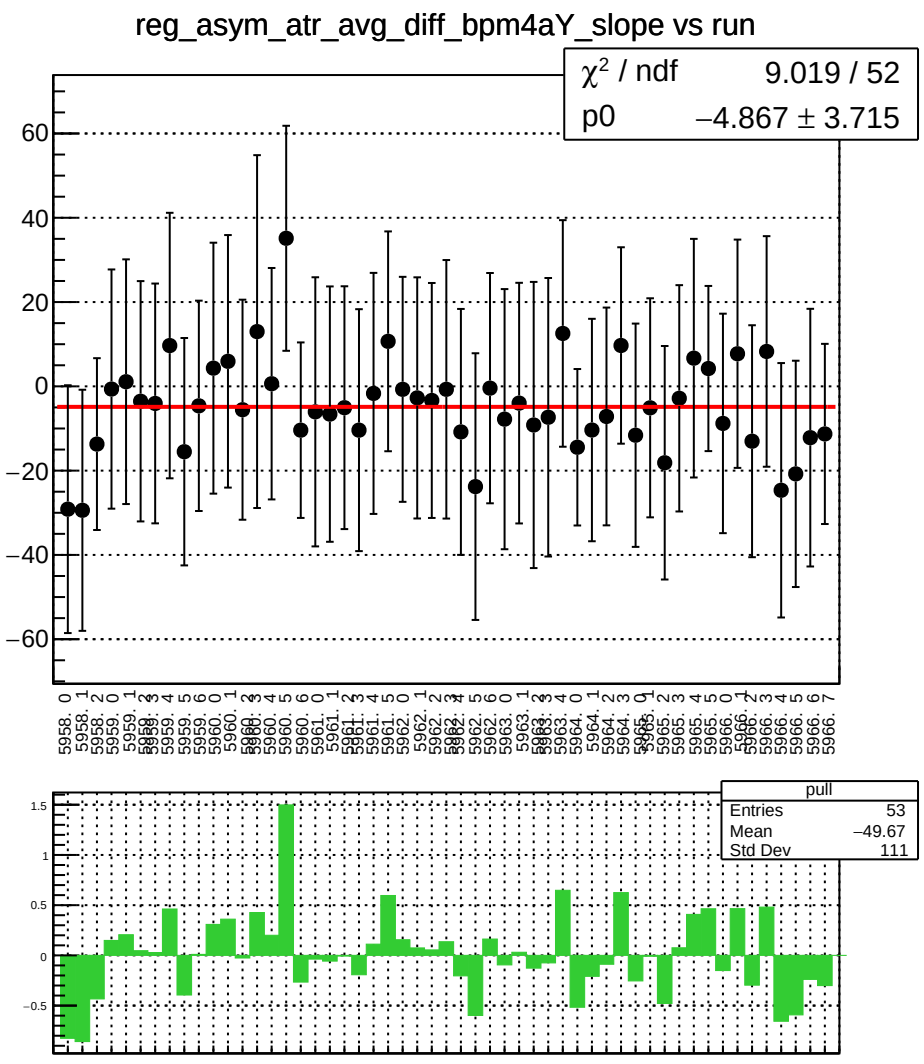

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.61 / 52
p0 −65.71 ± 2.56
−20
−40
−60
−80
−100
pull
Entries 53
Mean −0.5985
Std Dev 23.62
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 53
Mean 0.01202
Std Dev 0.5925
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

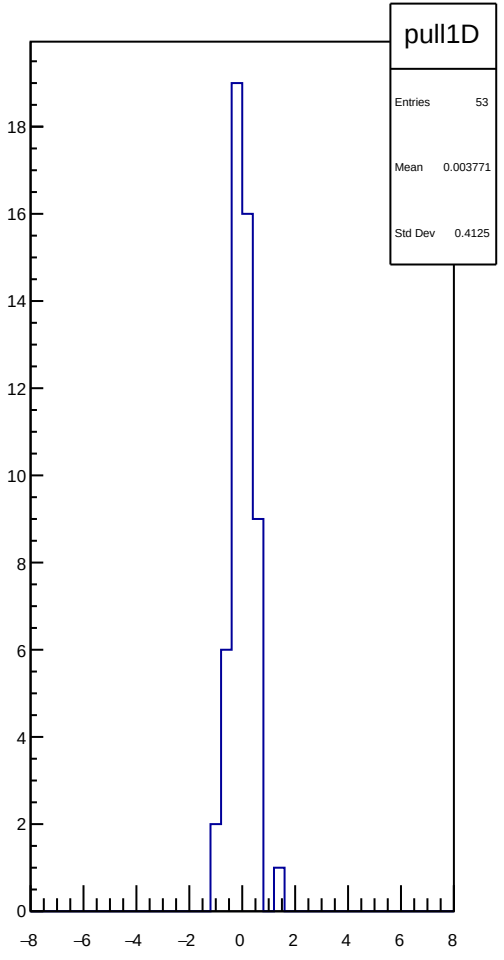

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 31.99 / 52
p0 87.44 ± 0.2333
92
90
88
86
84
pull
Entries 53
Mean 64.63
Std Dev 63.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

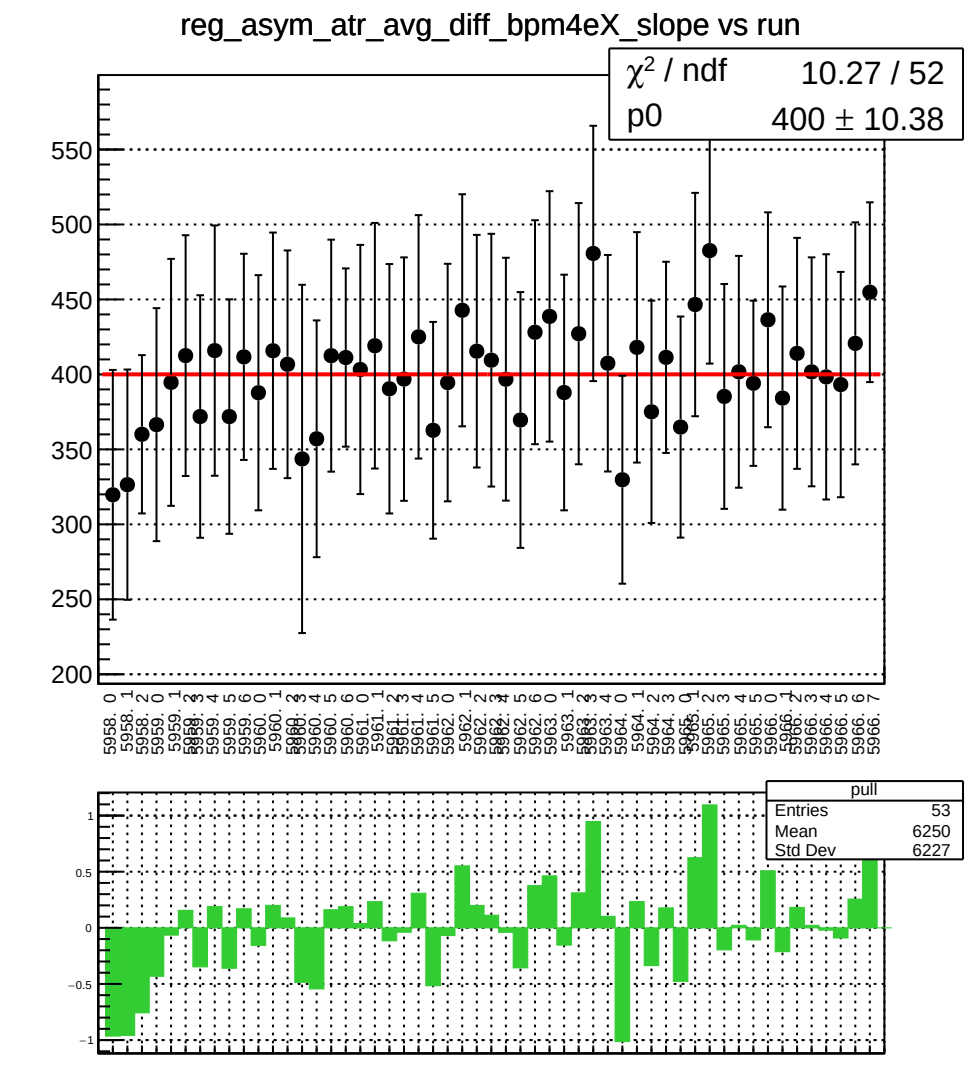

pull1D
Entries 53
Mean 0.02426
Std Dev 0.7765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

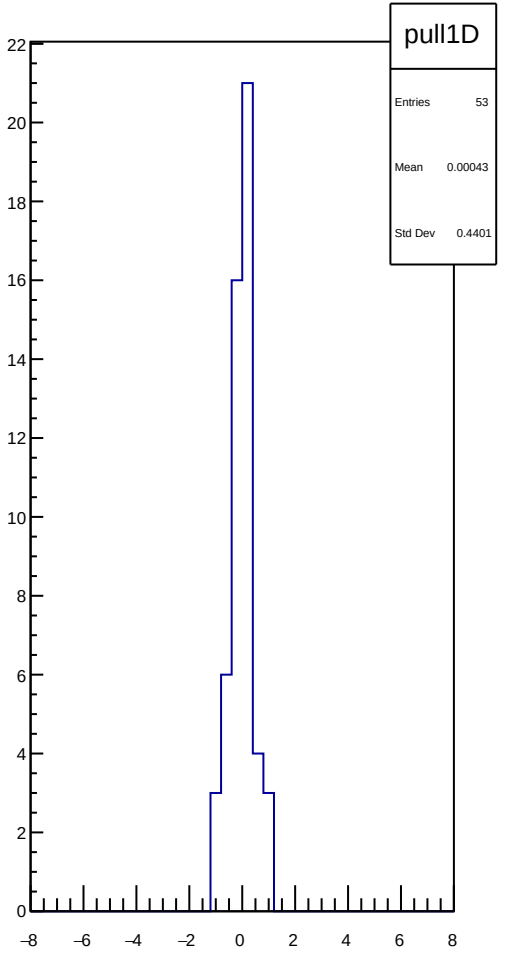

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.57 / 52
p0 −337 ± 9.792
pull
Entries 53
Mean −9238
Std Dev 9261

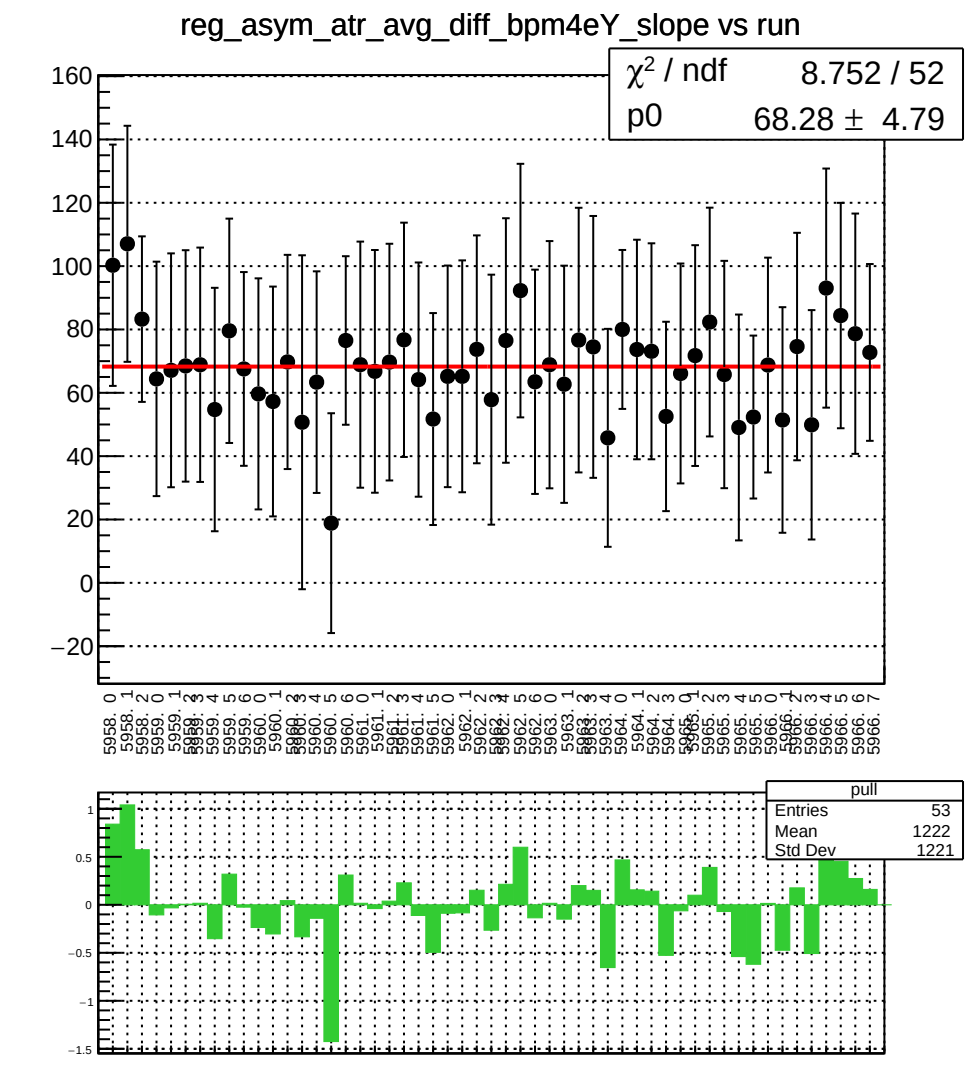

pull1D
Entries 53
Mean 0.0003005
Std Dev 0.4467

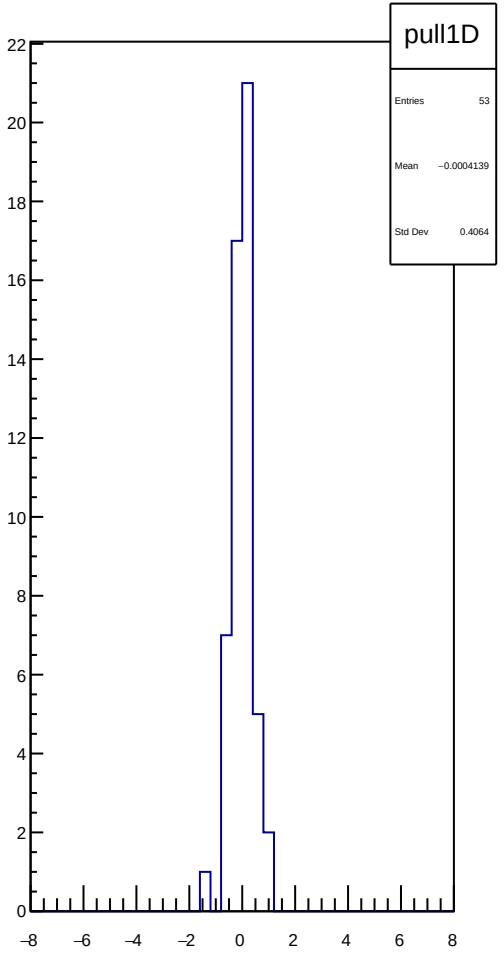

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.019 / 52
p0 −4.867 ± 3.715
pull
Entries 53
Mean −49.67
Std Dev 111

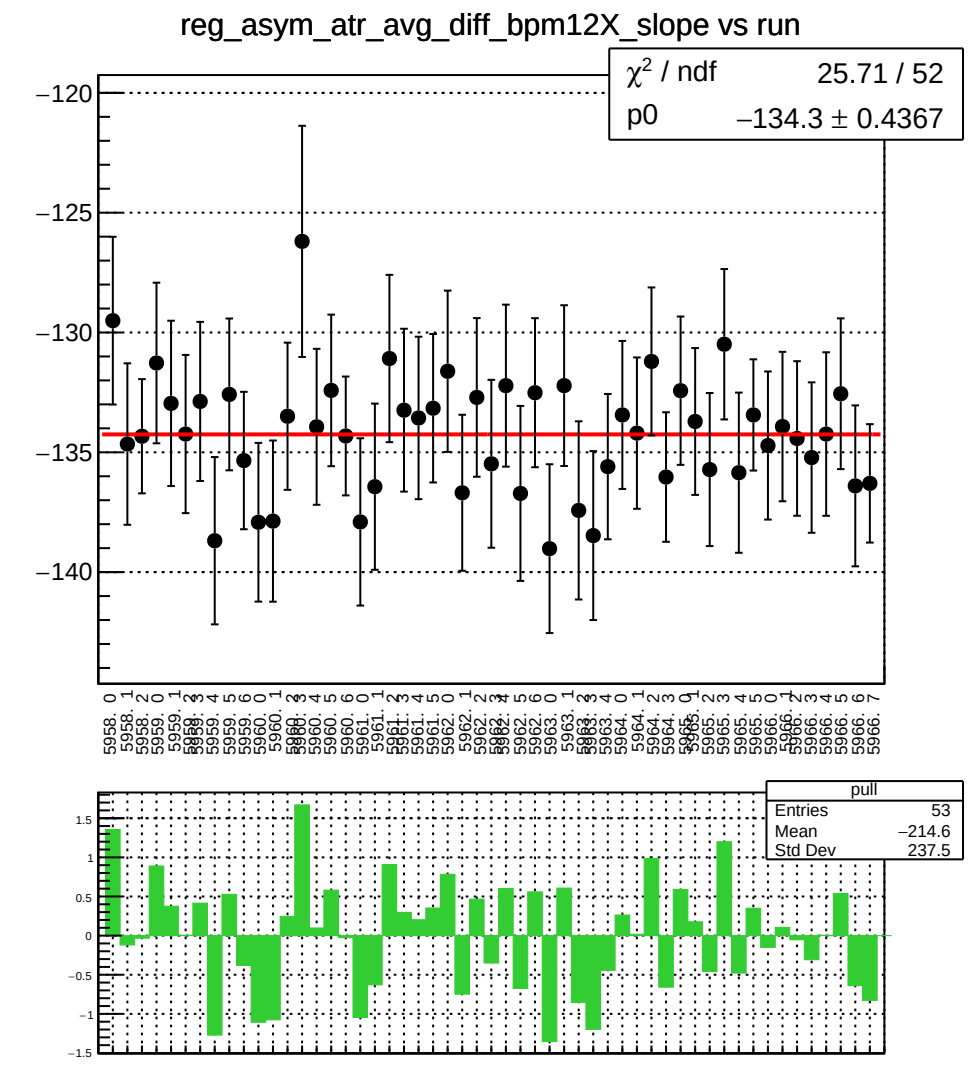

pull1D
Entries 53
Mean 0.003771
Std Dev 0.4125

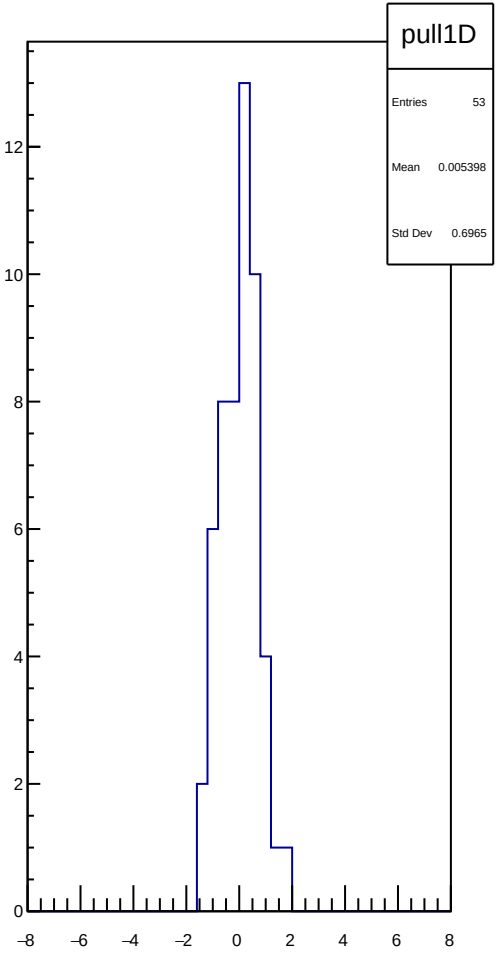

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.27 / 52
p0 400 ± 10.38
pull
Entries 53
Mean 6250
Std Dev 6227

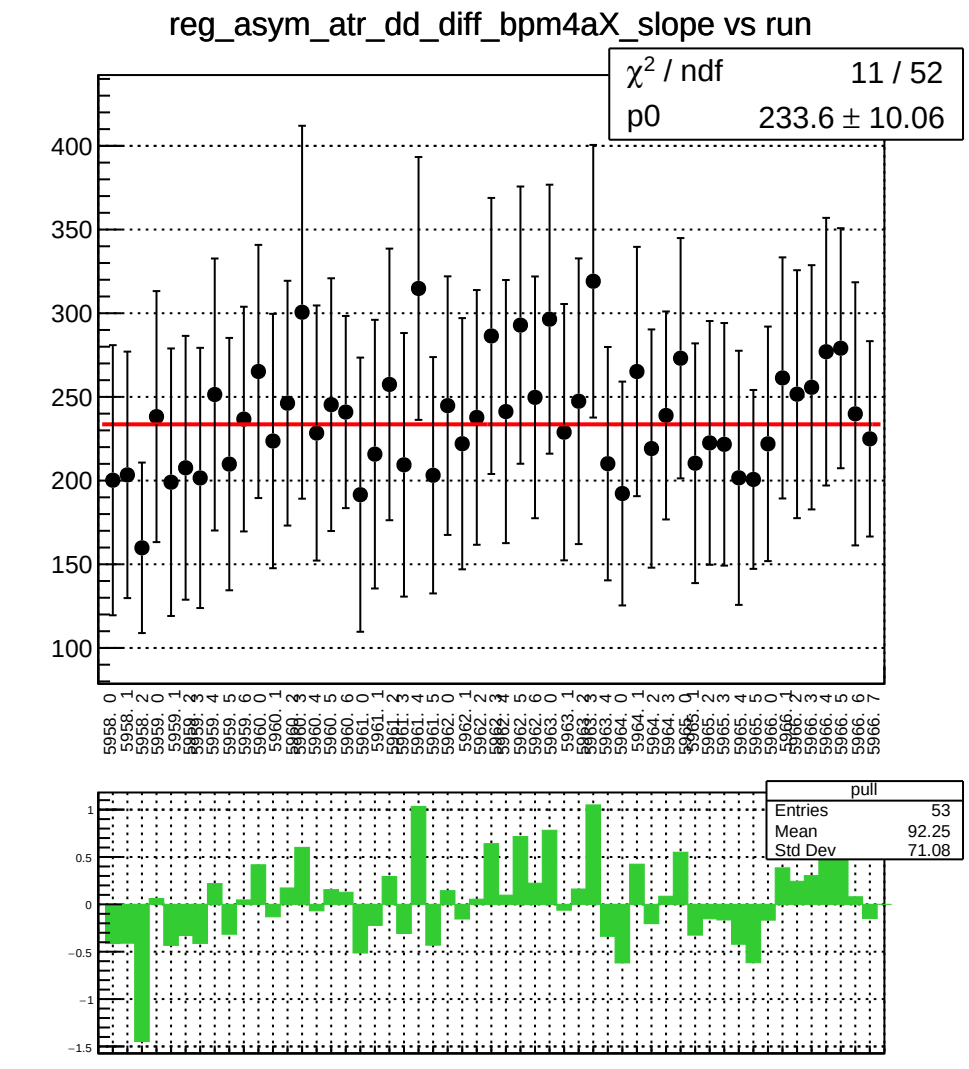

pull1D
Entries 53
Mean 0.00043
Std Dev 0.4401

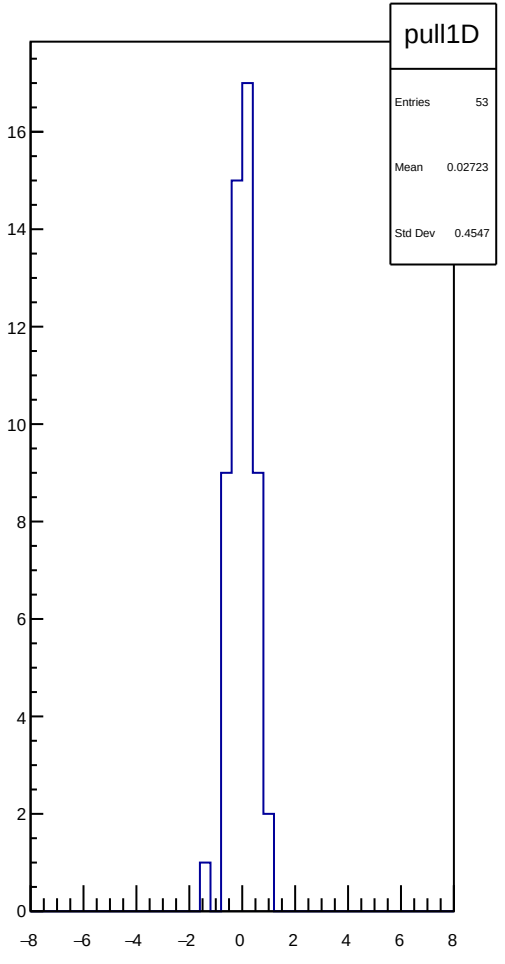

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.752 / 52
p0 68.28 ± 4.79
pull
Entries 53
Mean 1222
Std Dev 1221

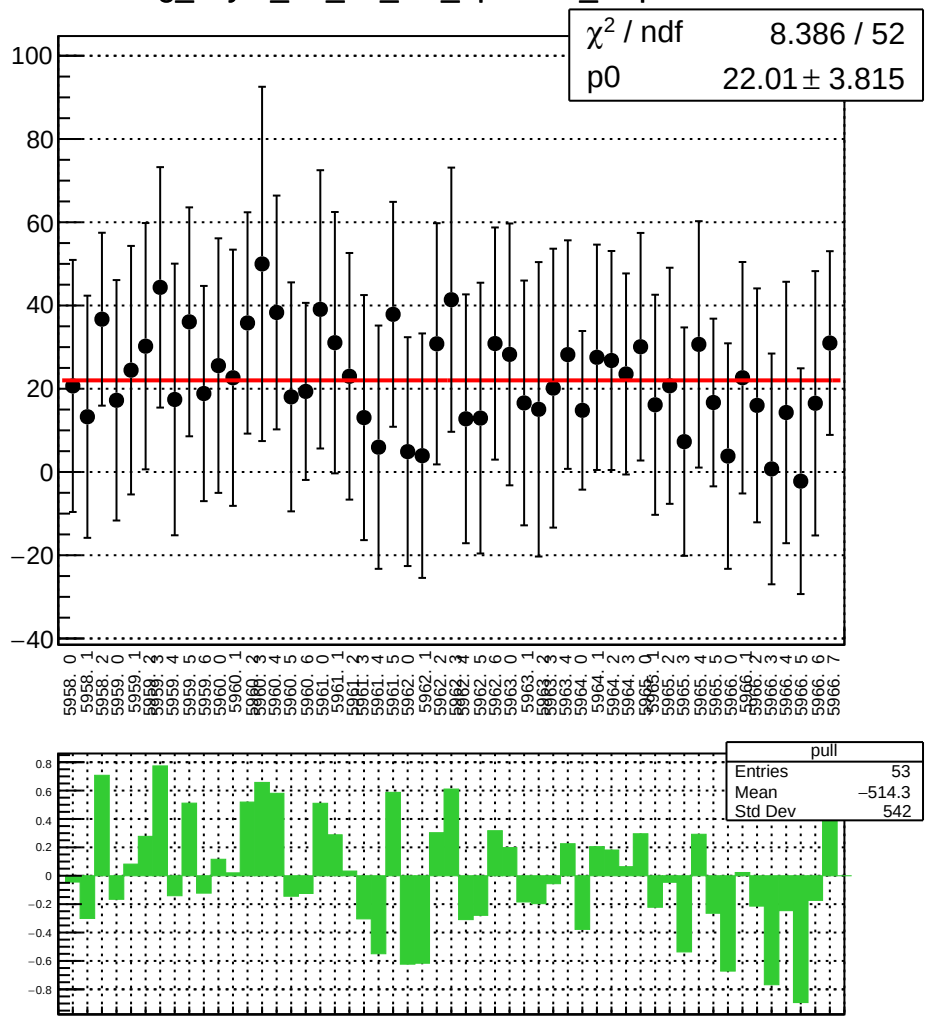

pull1D
Entries 53
Mean −0.0004139
Std Dev 0.4064

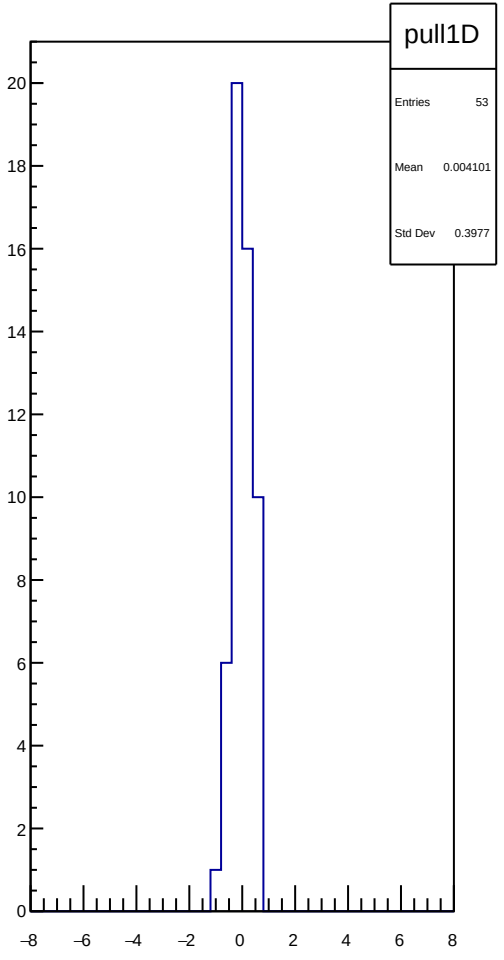

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 25.71 / 52
p0 −134.3 ± 0.4367
pull
Entries 53
Mean −214.6
Std Dev 237.5

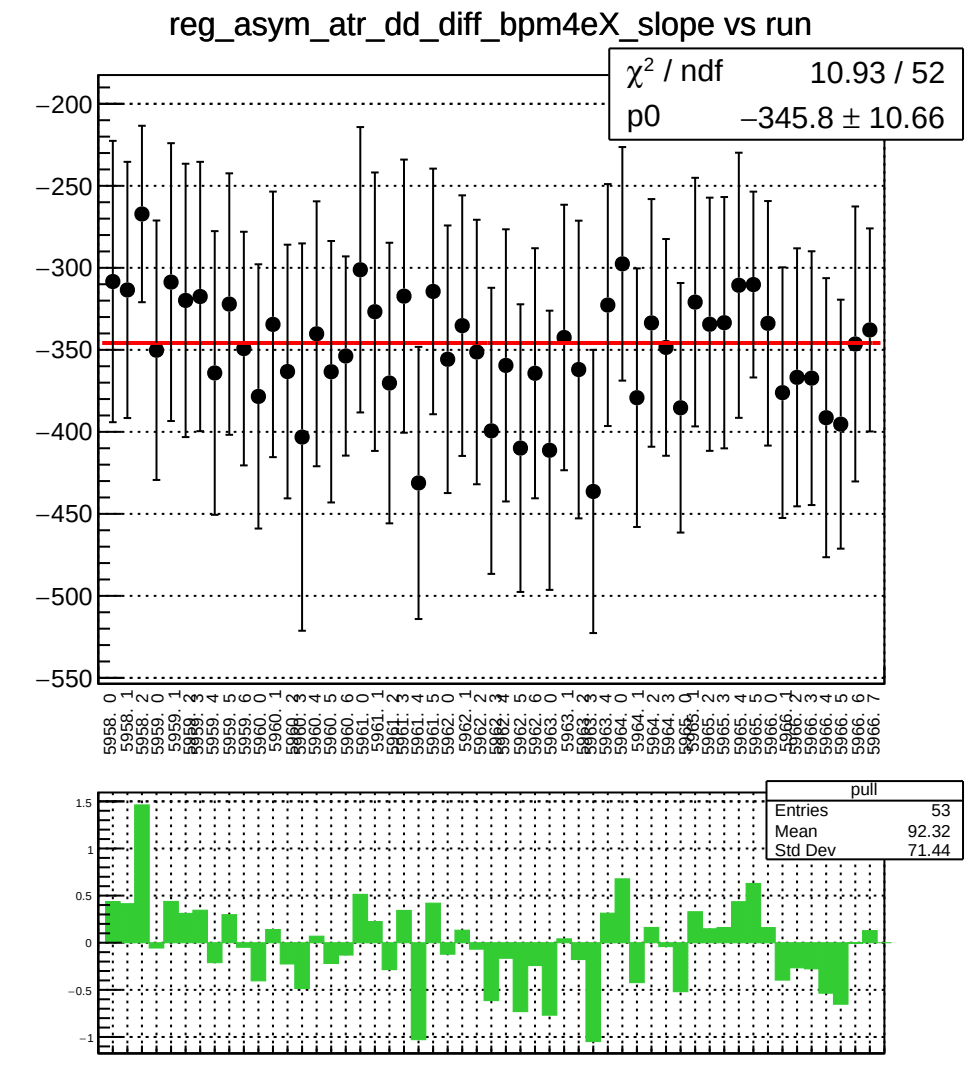

pull1D
Entries 53
Mean 0.005398
Std Dev 0.6965

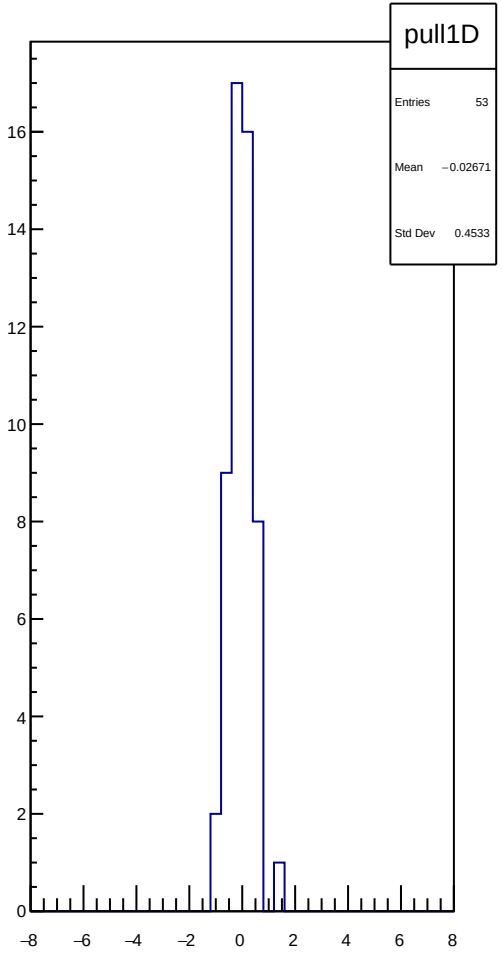

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 11 / 52
p0 233.6 ± 10.06
pull
Entries 53
Mean 92.25
Std Dev 71.08

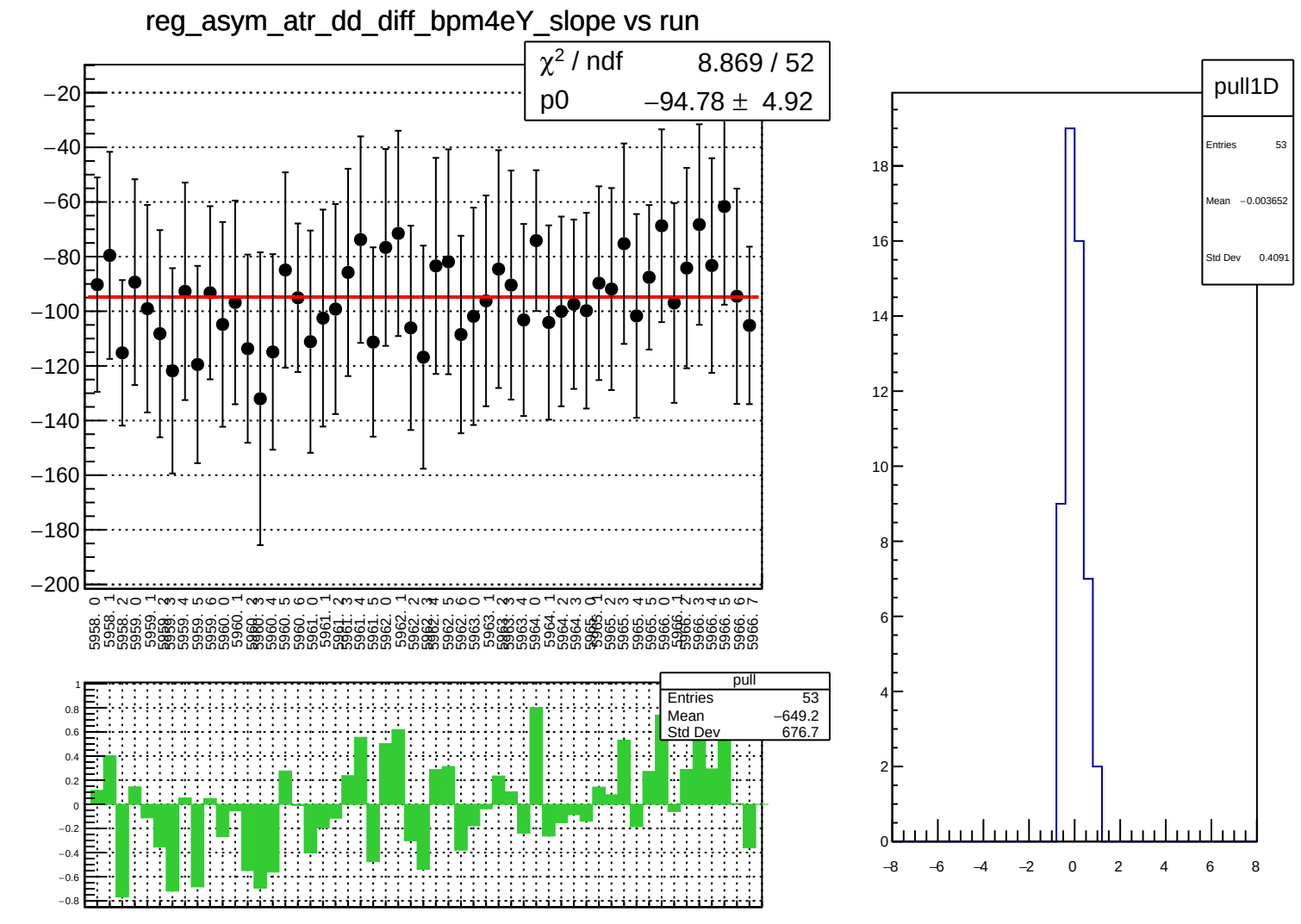

pull1D
Entries 53
Mean 0.02723
Std Dev 0.4547

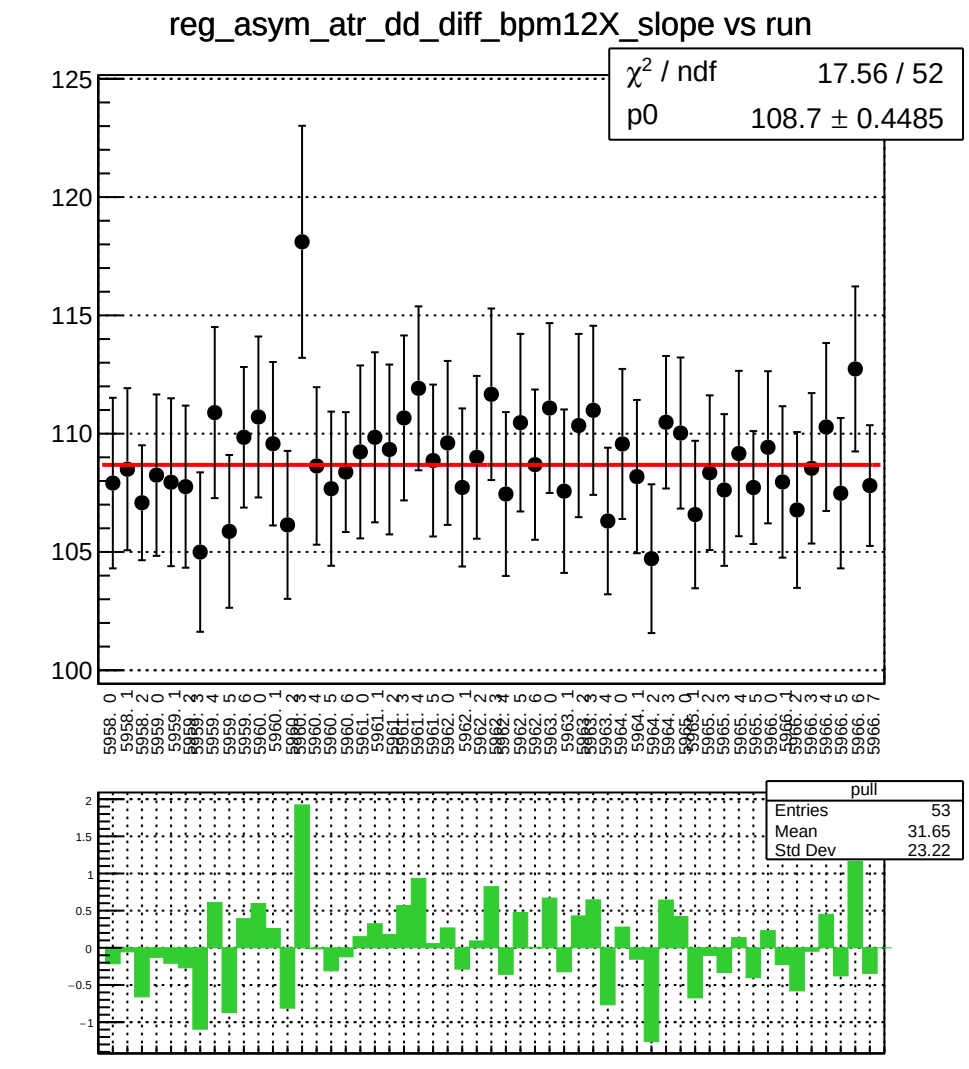

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 8.386 / 52
p0 22.01 ± 3.815
pull
Entries 53
Mean −514.3
Std Dev 542

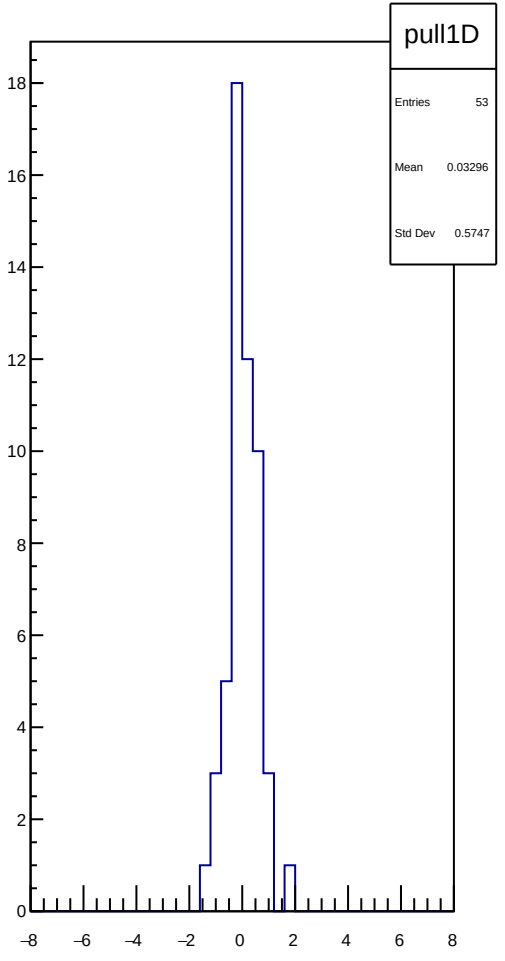

pull1D
Entries 53
Mean 0.004101
Std Dev 0.3977

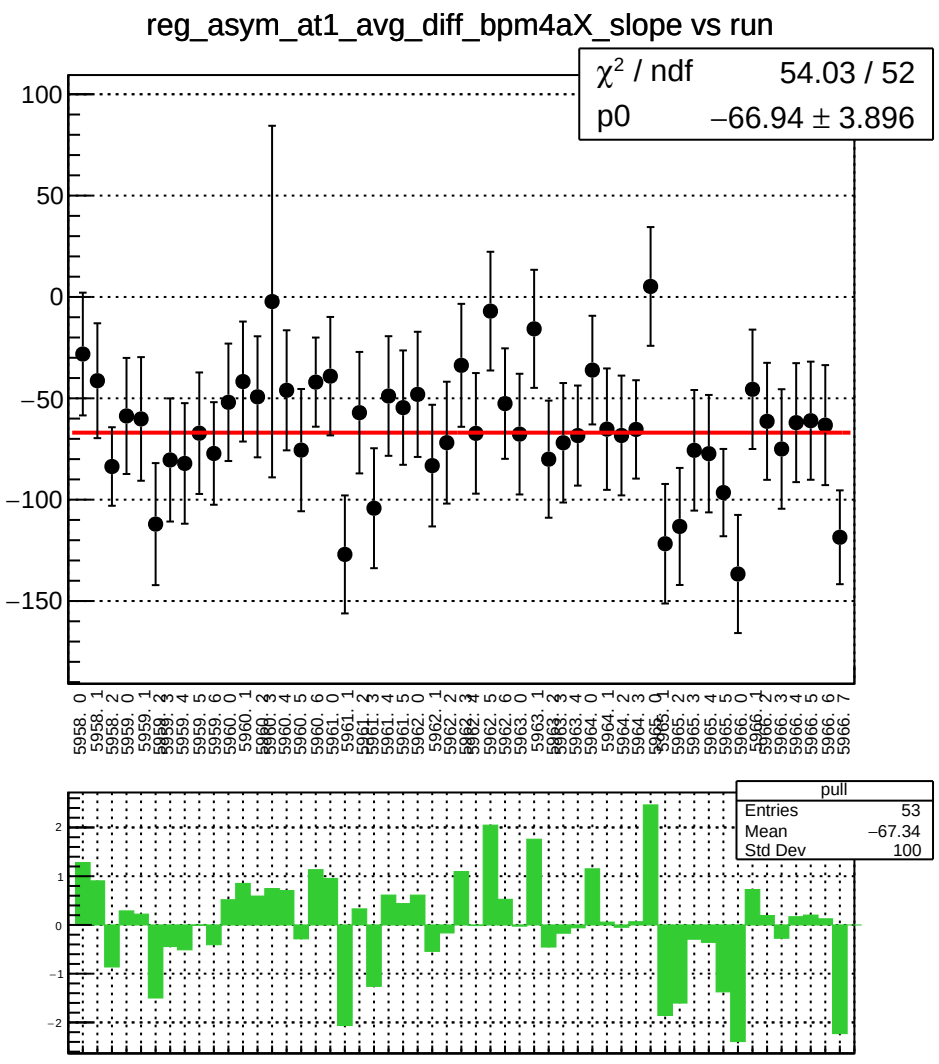

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.93 / 52
p0 −345.8 ± 10.66
pull
Entries 53
Mean 92.32
Std Dev 71.44

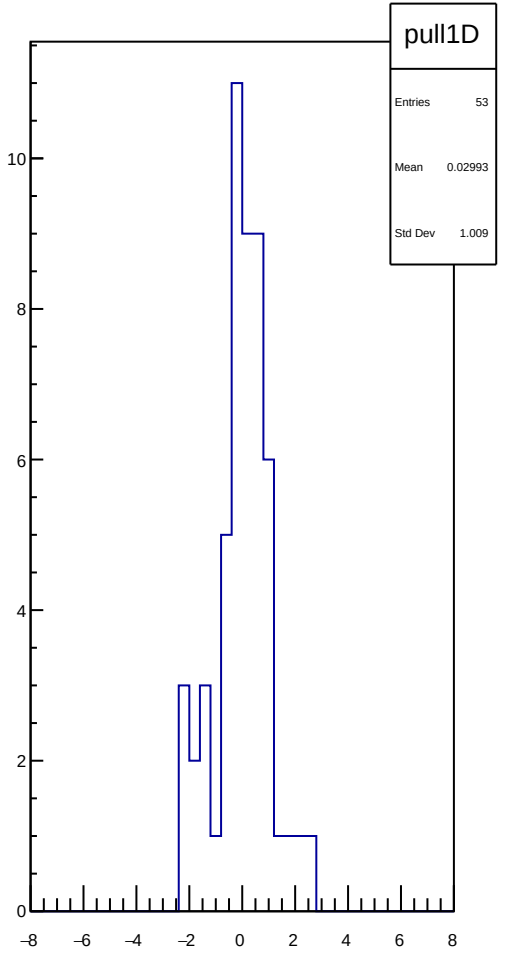

pull1D
Entries 53
Mean −0.02671
Std Dev 0.4533

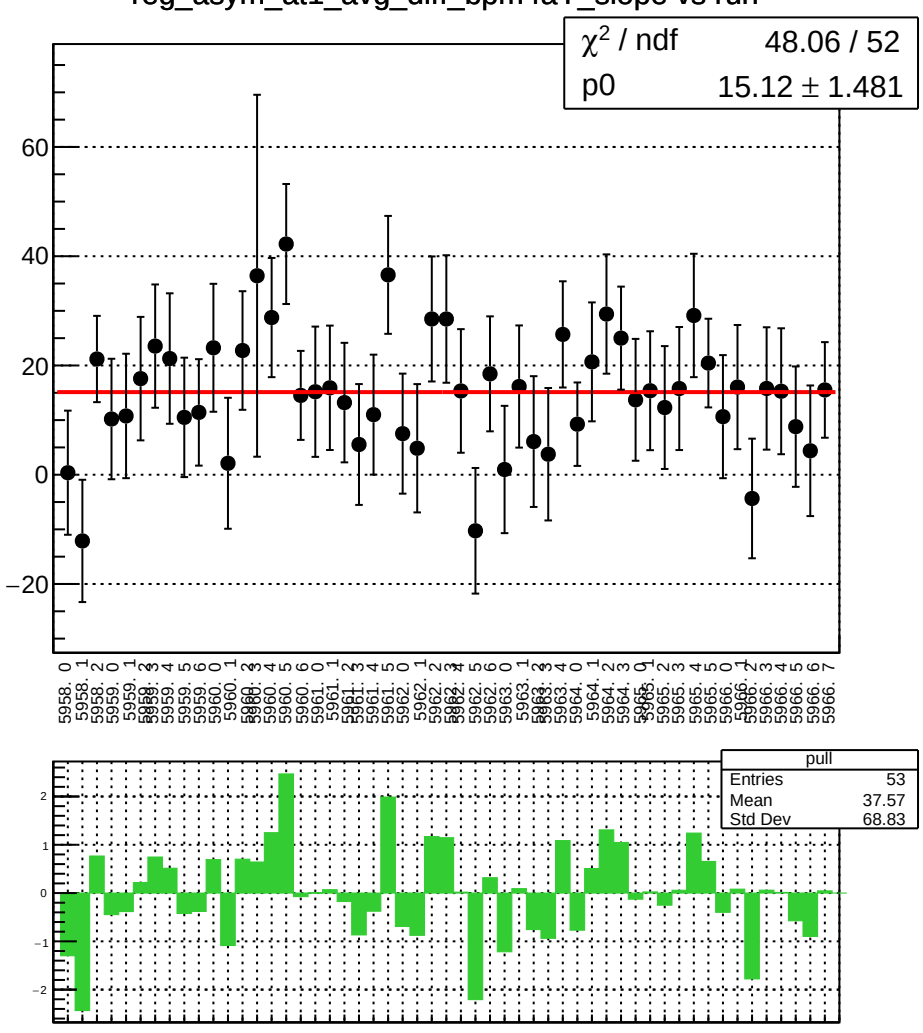

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.869 / 52
p0 −94.78 ± 4.92
pull
Entries 53
Mean −649.2
Std Dev 676.7
pull1D
Entries 53
Mean −0.003652
Std Dev 0.4091

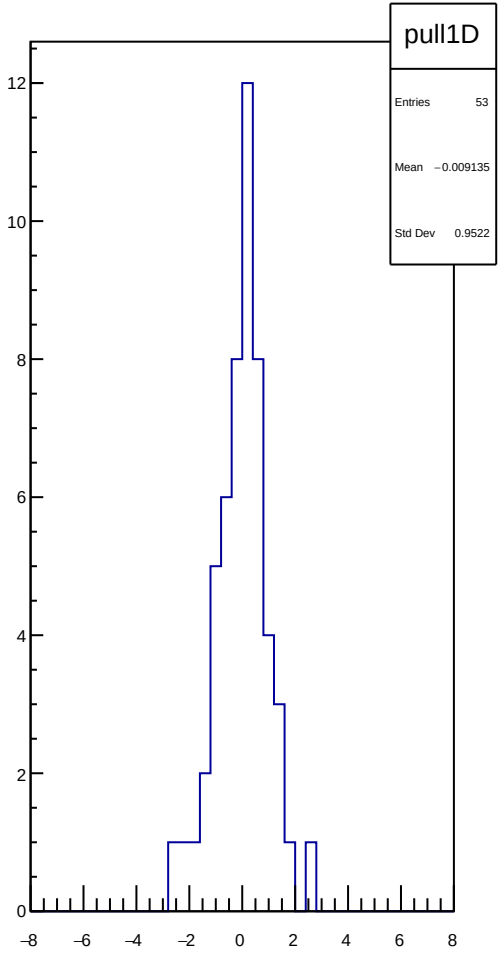

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 17.56 / 52
p0 108.7 ± 0.4485
pull
Entries 53
Mean 31.65
Std Dev 23.22

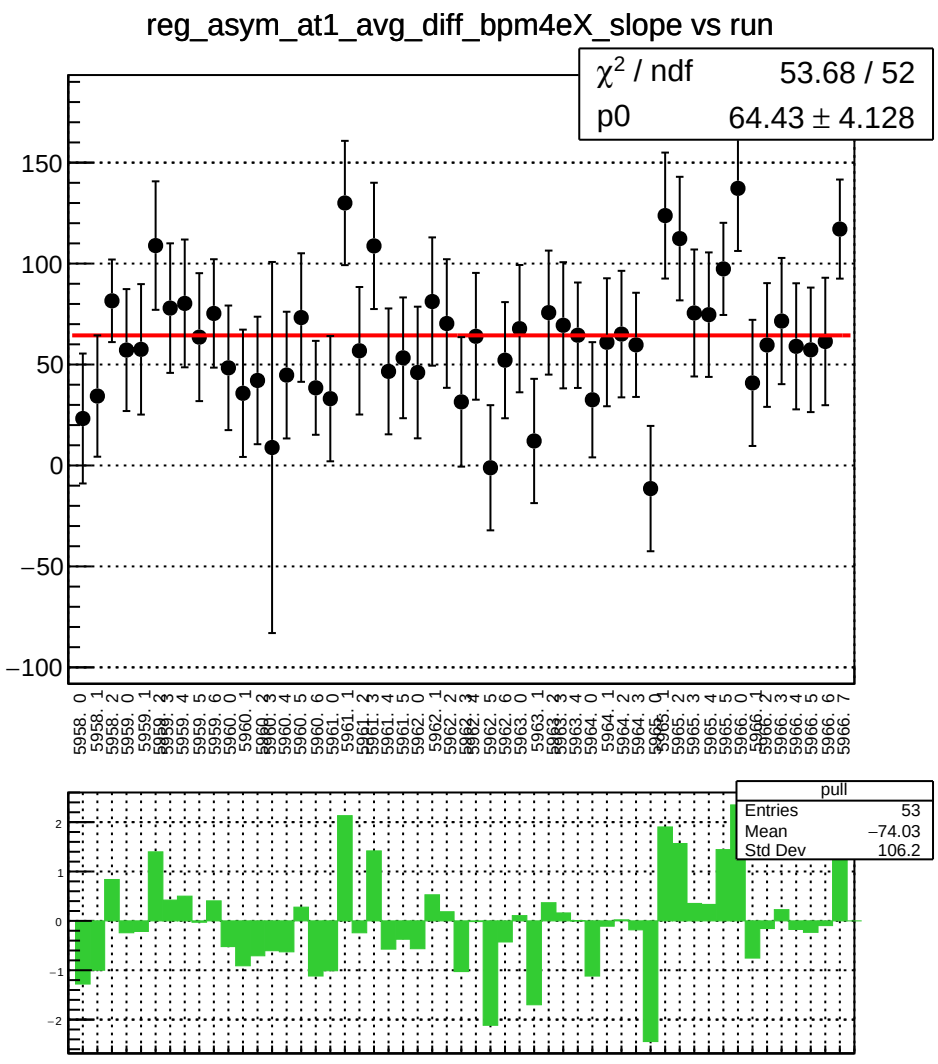

pull1D
Entries 53
Mean 0.03296
Std Dev 0.5747

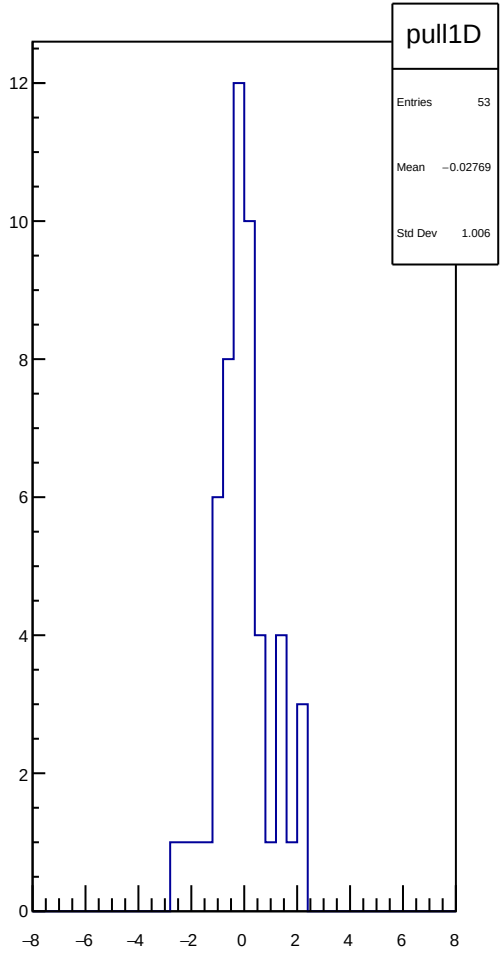

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 54.03 / 52
p0 −66.94 ± 3.896
pull
Entries 53
Mean −67.34
Std Dev 100

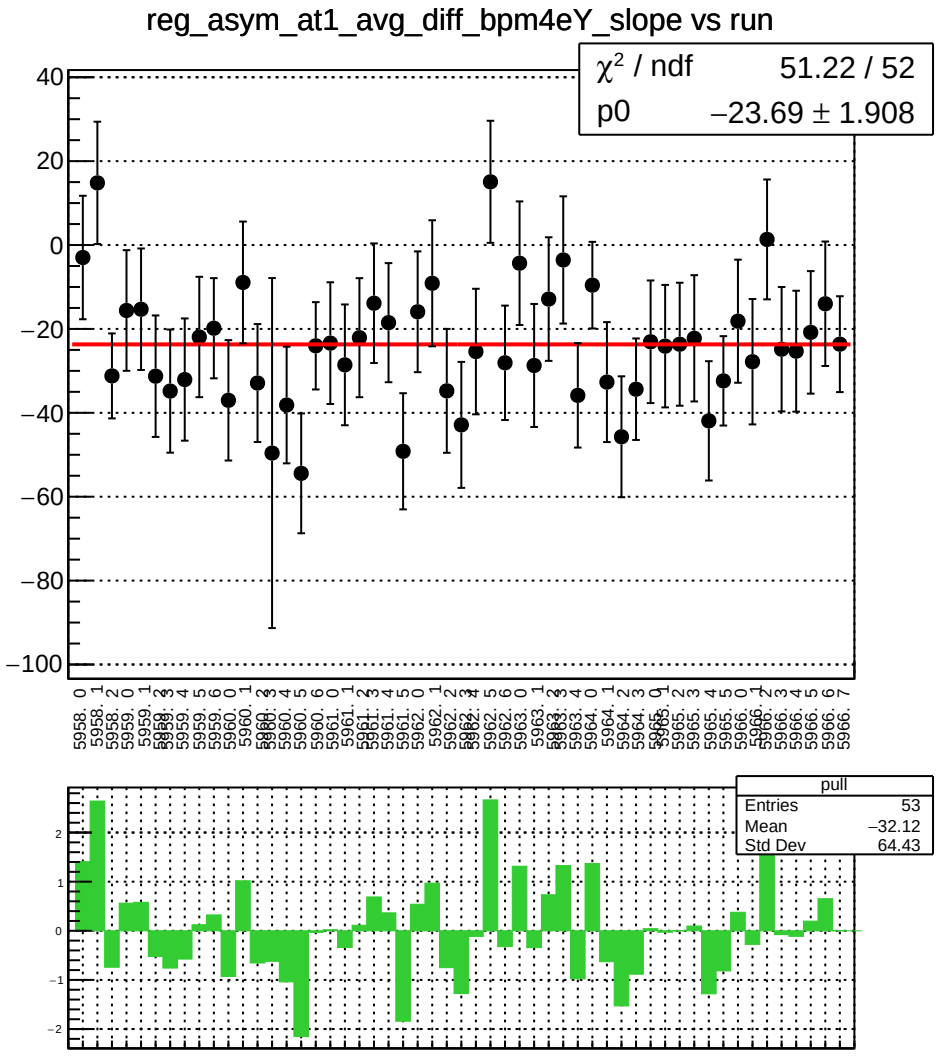

pull1D
Entries 53
Mean 0.02993
Std Dev 1.009

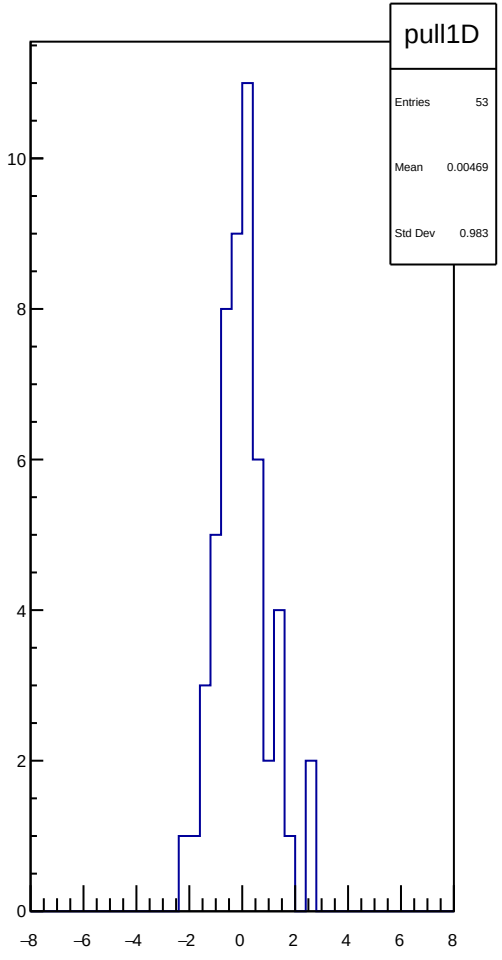

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.06 / 52
p0 15.12 ± 1.481
pull
Entries 53
Mean 37.57
Std Dev 68.83

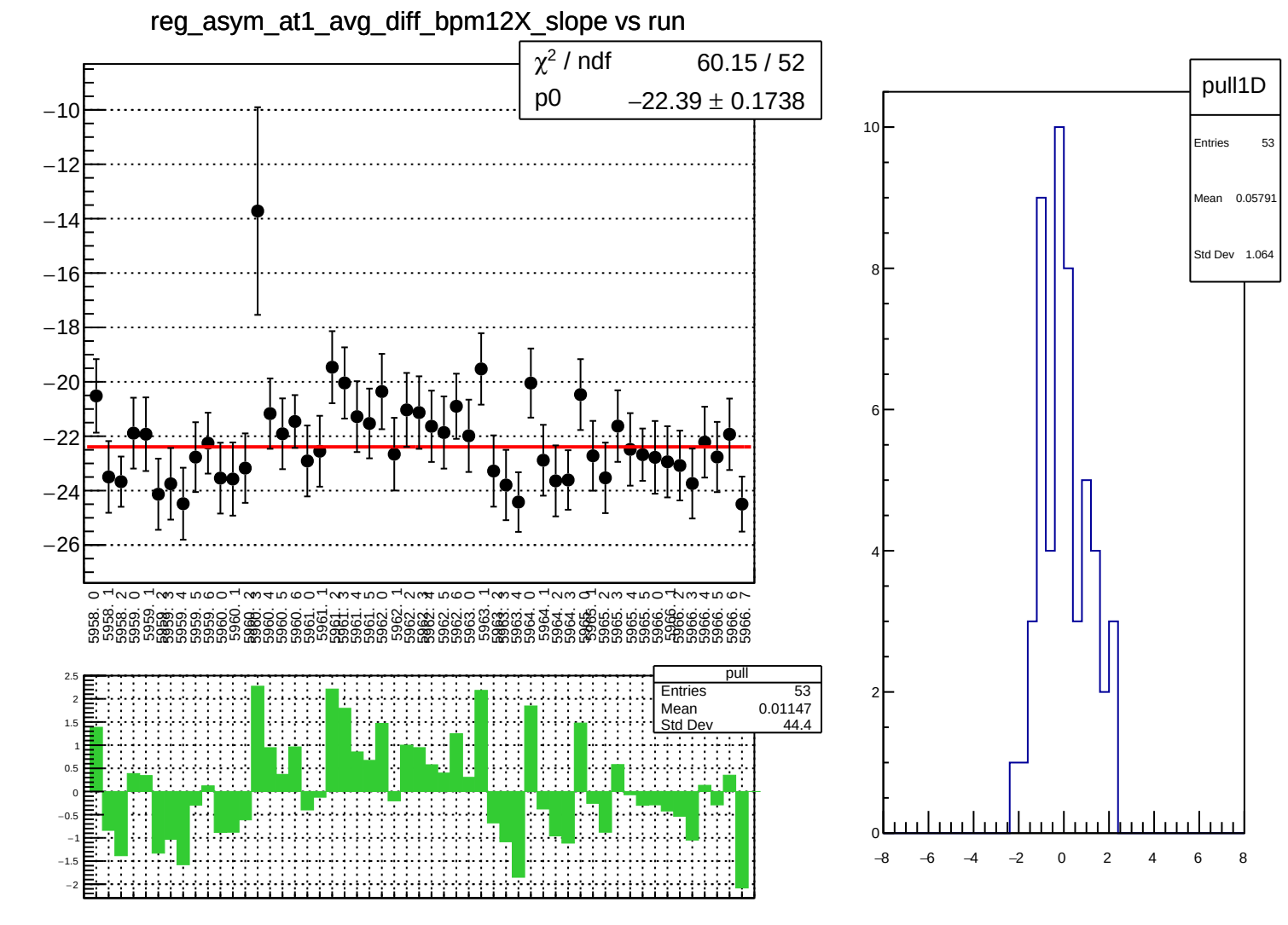

pull1D
Entries 53
Mean −0.009135
Std Dev 0.9522

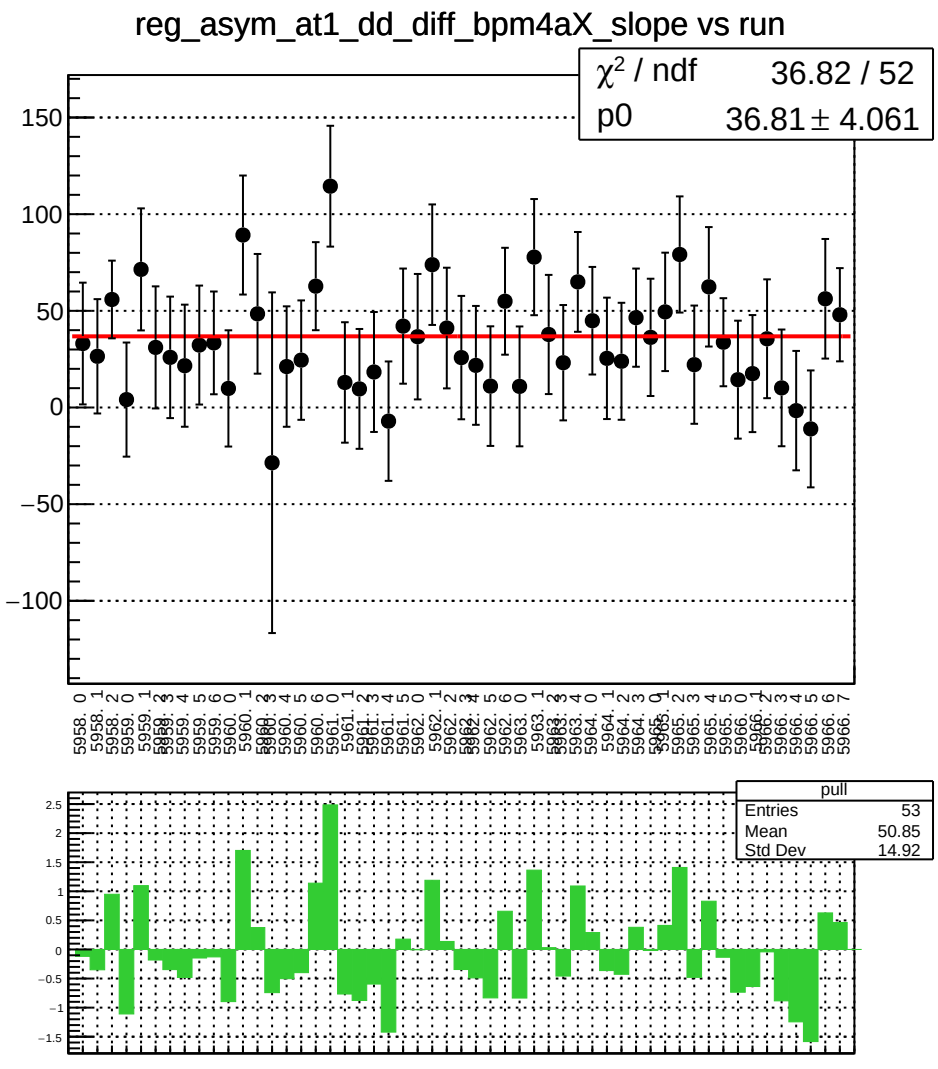

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.68 / 52
p0 64.43 ± 4.128
150
100
50
0
−50
−100
pull
Entries 53
Mean −74.03
Std Dev 106.2
2
1
0
−1
−2

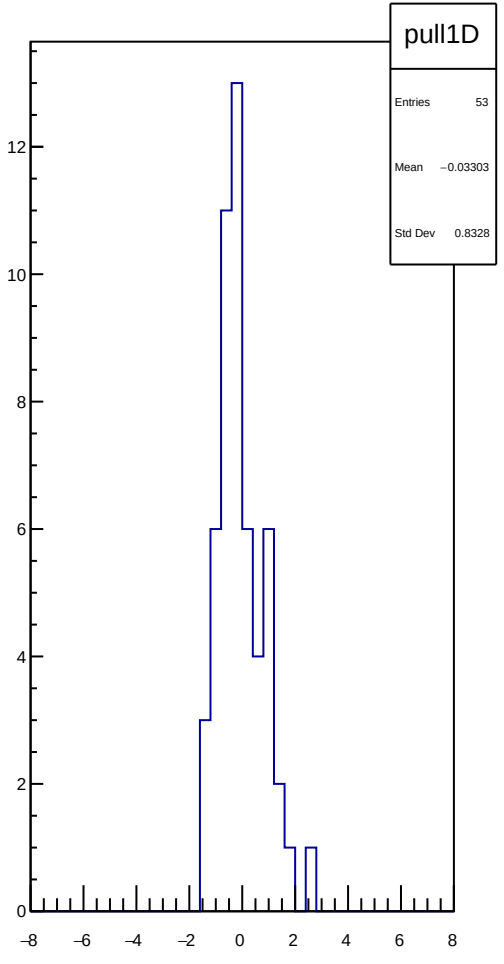

pull1D
Entries 53
Mean −0.02769
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

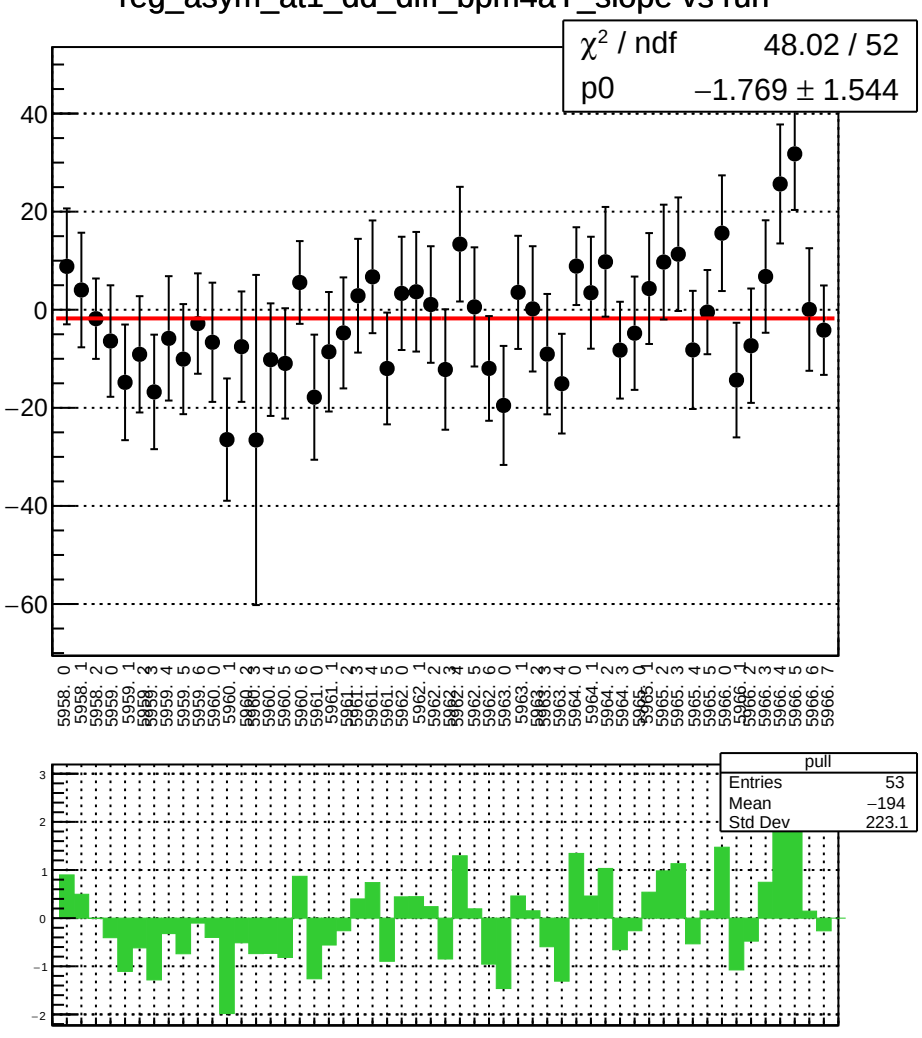

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.22 / 52
p0 −23.69 ± 1.908
pull
Entries 53
Mean −32.12
Std Dev 64.43

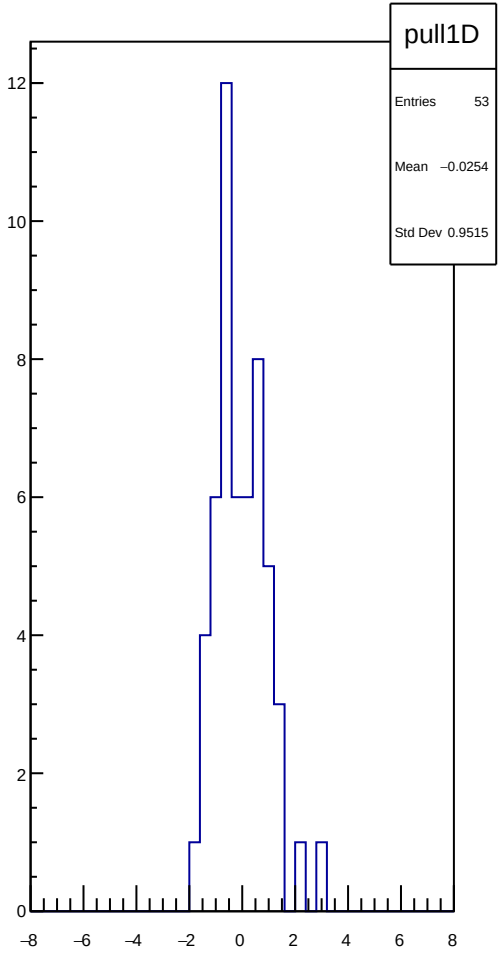

pull1D
Entries 53
Mean 0.00469
Std Dev 0.983

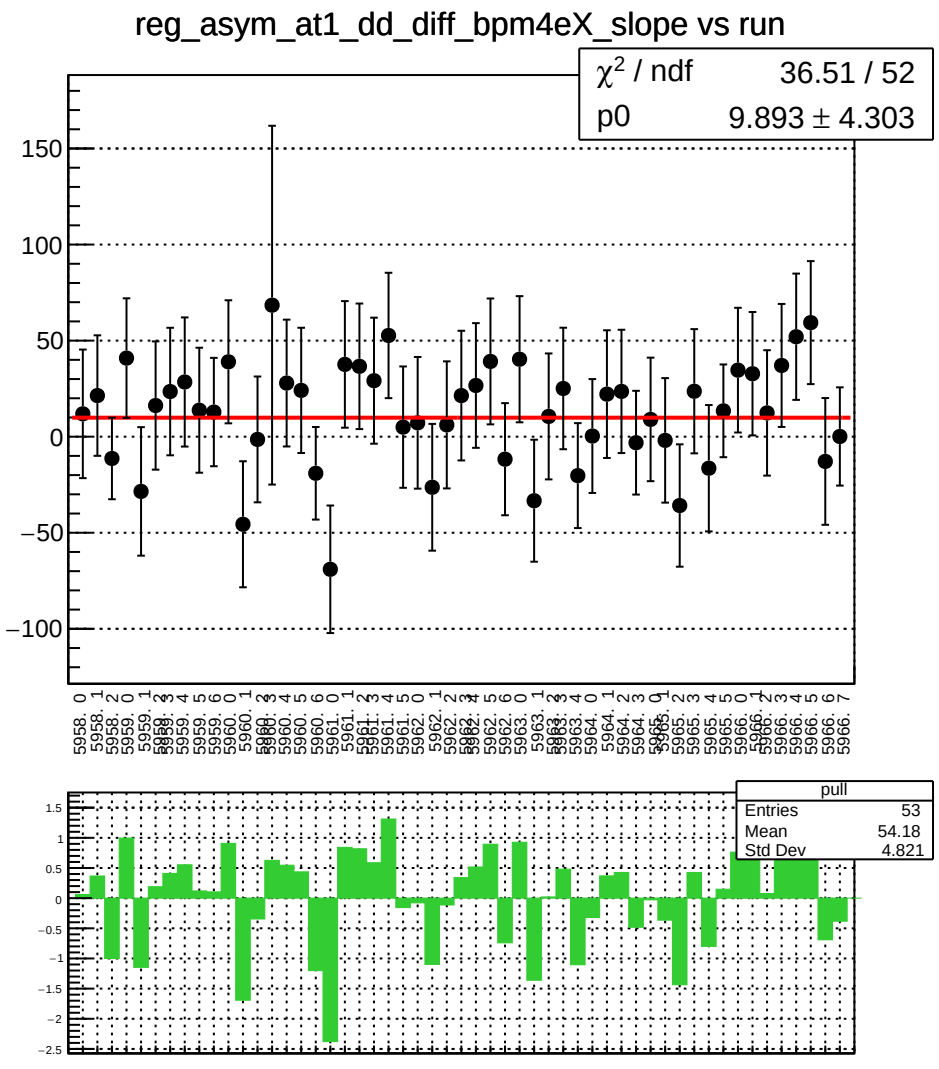

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 60.15 / 52
p0 −22.39 ± 0.1738
pull
Entries 53
Mean 0.01147
Std Dev 44.4
pull1D
Entries 53
Mean 0.05791
Std Dev 1.064

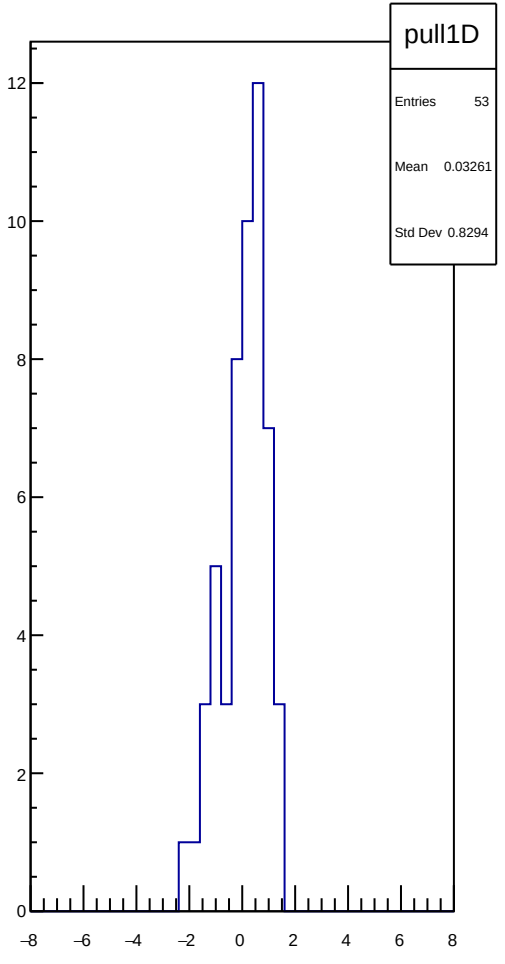

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.82 / 52
p0 36.81 ± 4.061
150
100
50
0
−50
−100
pull
Entries 53
Mean 50.85
Std Dev 14.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

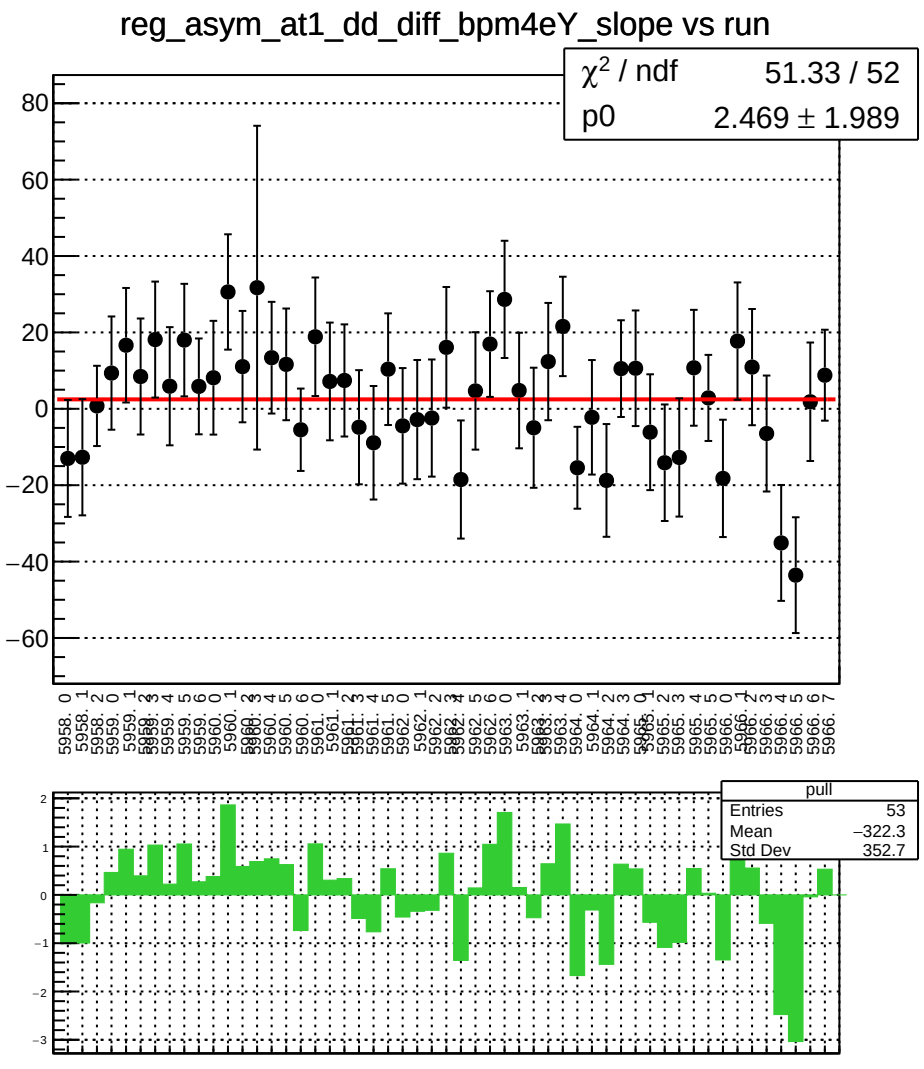

pull1D
Entries 53
Mean −0.03303
Std Dev 0.8328
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

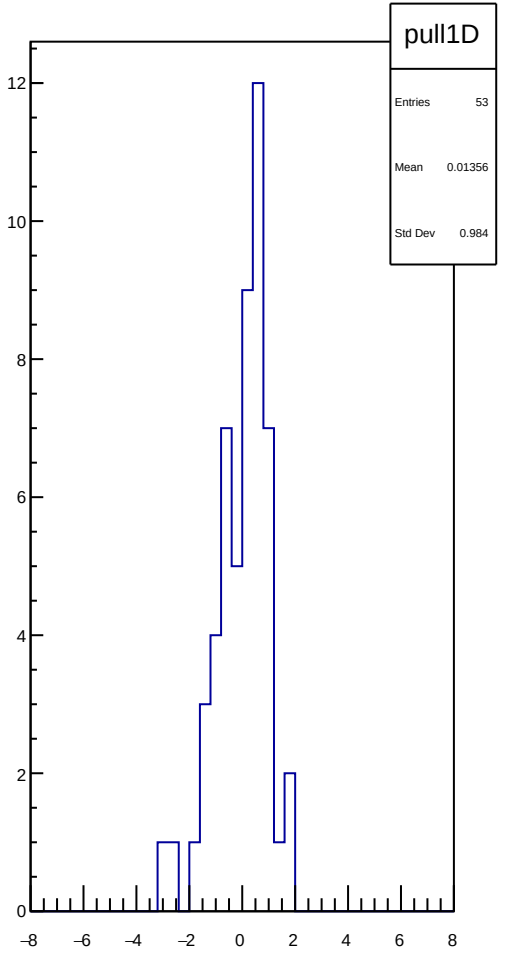

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.02 / 52
p0 −1.769 ± 1.544
pull
Entries 53
Mean −194
Std Dev 223.1

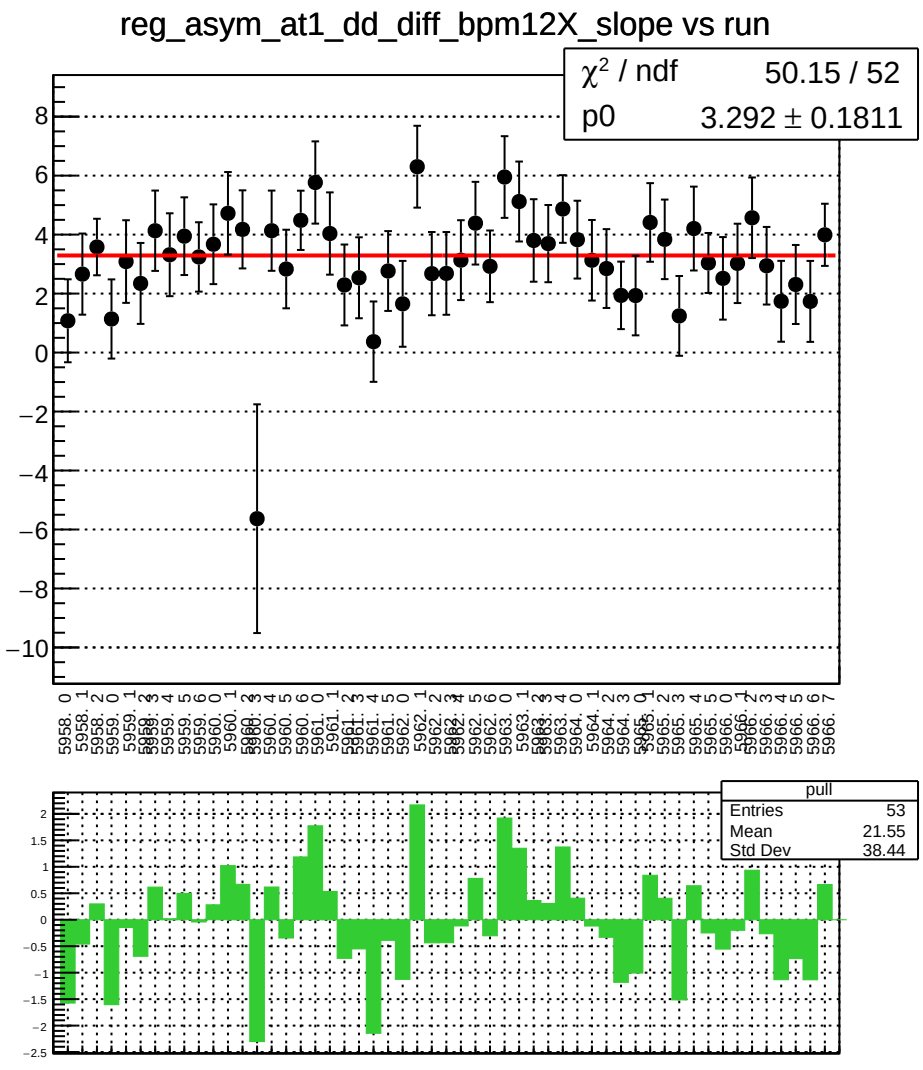

pull1D
Entries 53
Mean −0.0254
Std Dev 0.9515

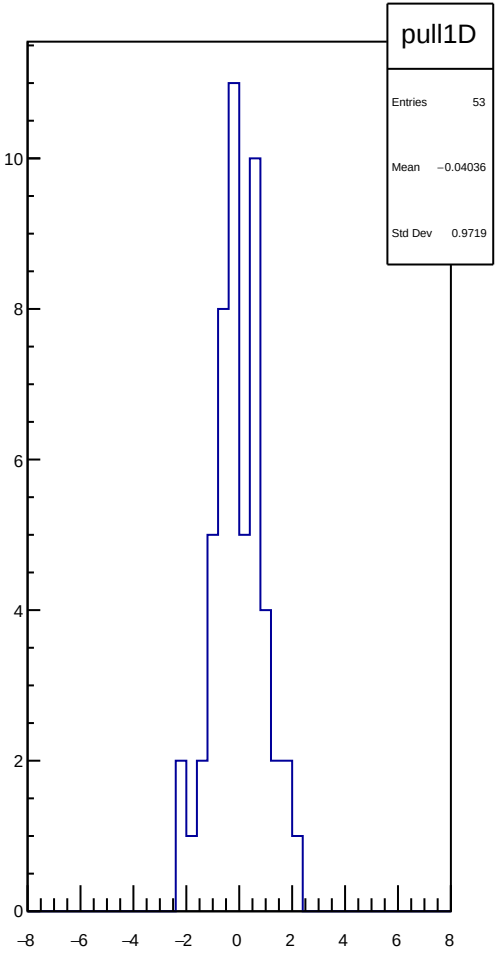

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 36.51 / 52
p0 9.893 ± 4.303
150
100
50
0
−50
−100
pull
Entries 53
Mean 54.18
Std Dev 4.821
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

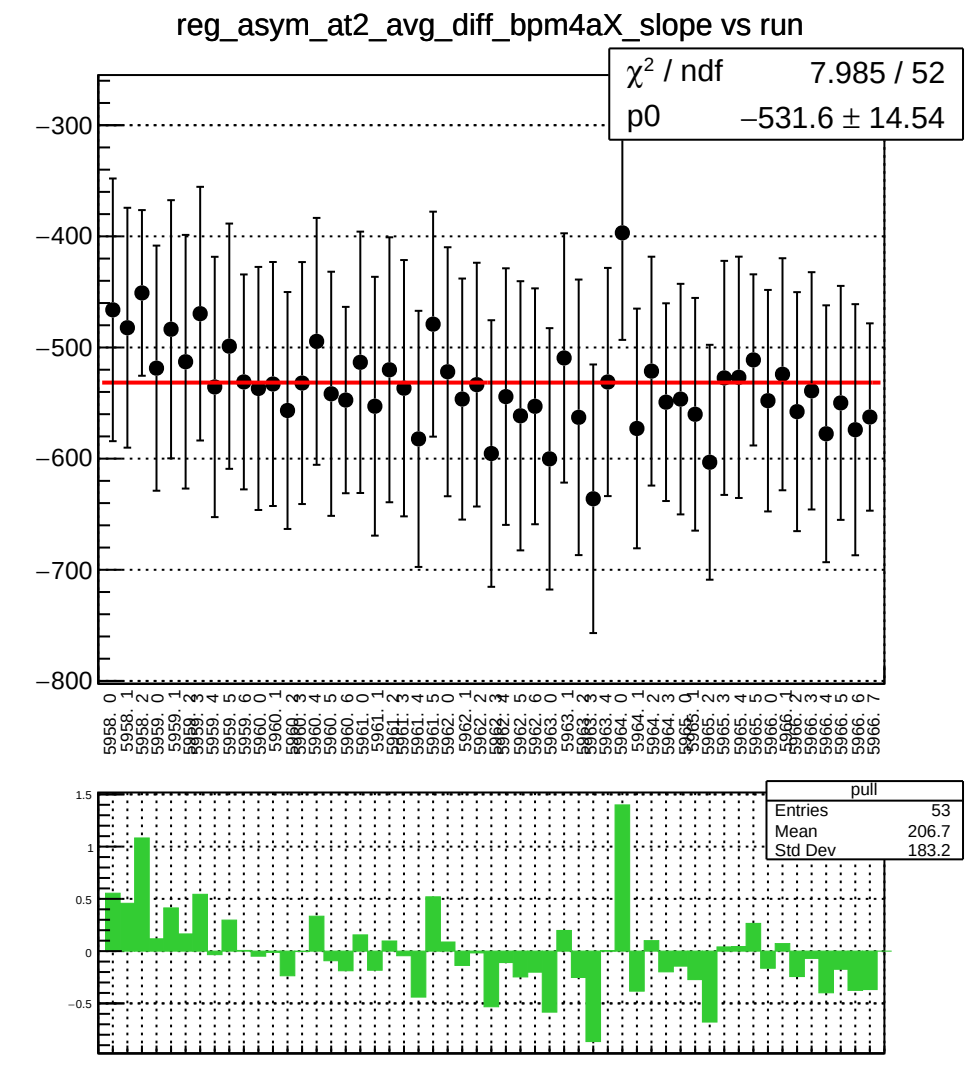

pull1D
Entries 53
Mean 0.03261
Std Dev 0.8294
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

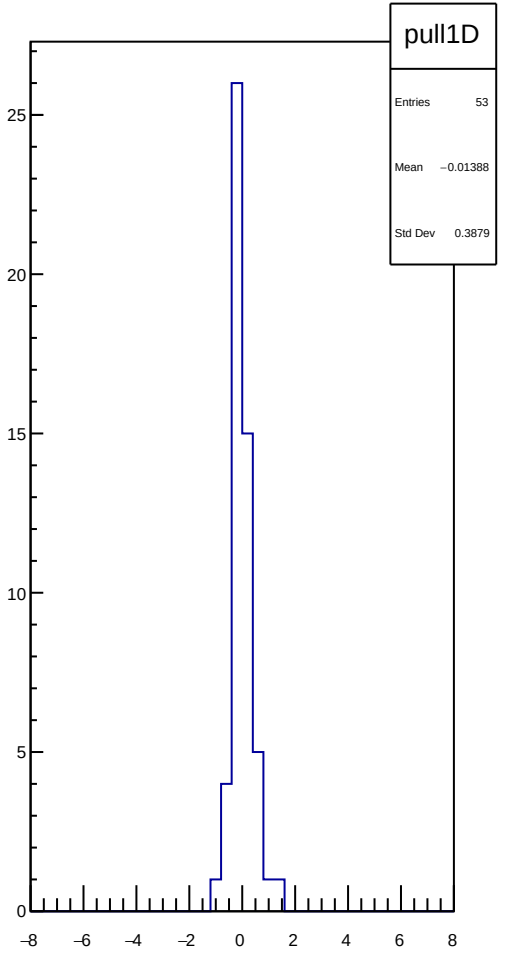

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.33 / 52
p0 2.469 ± 1.989
pull
Entries 53
Mean −322.3
Std Dev 352.7

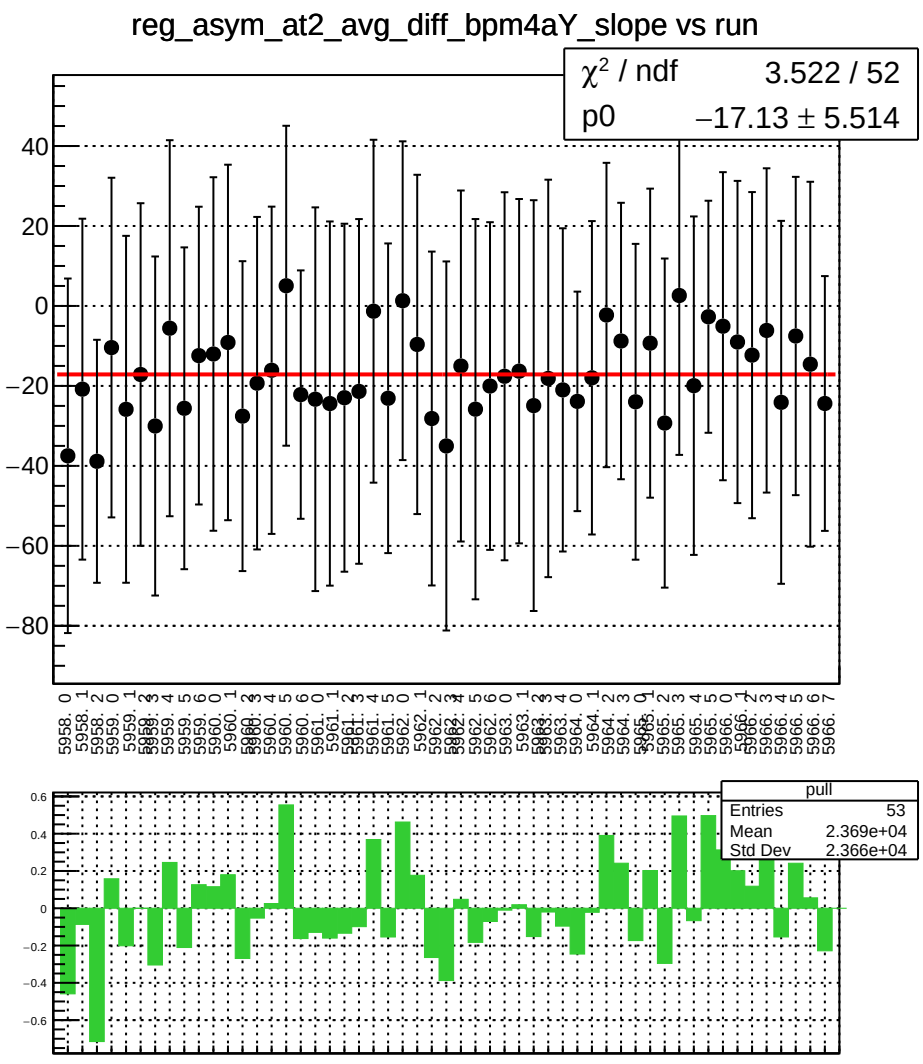

pull1D
Entries 53
Mean 0.01356
Std Dev 0.984

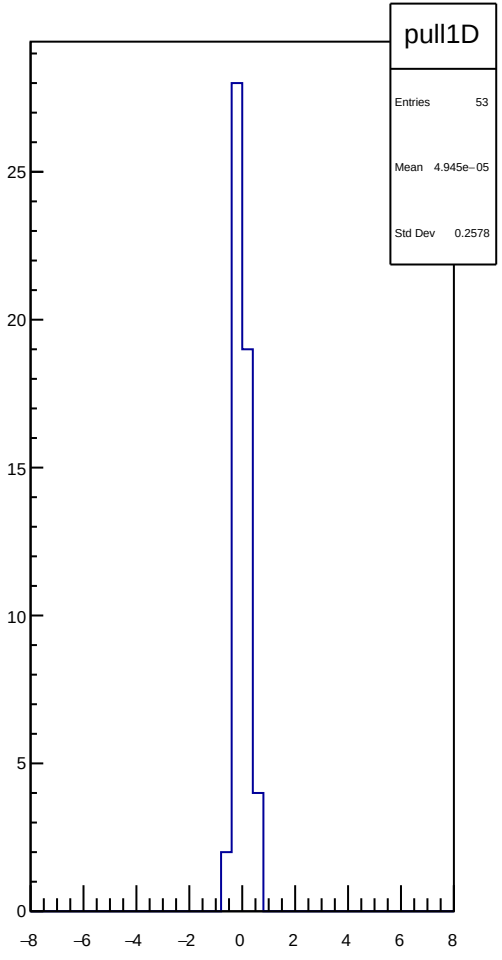

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ^2 / ndf 50.15 / 52
p0 3.292 ± 0.1811
pull
Entries 53
Mean 21.55
Std Dev 38.44

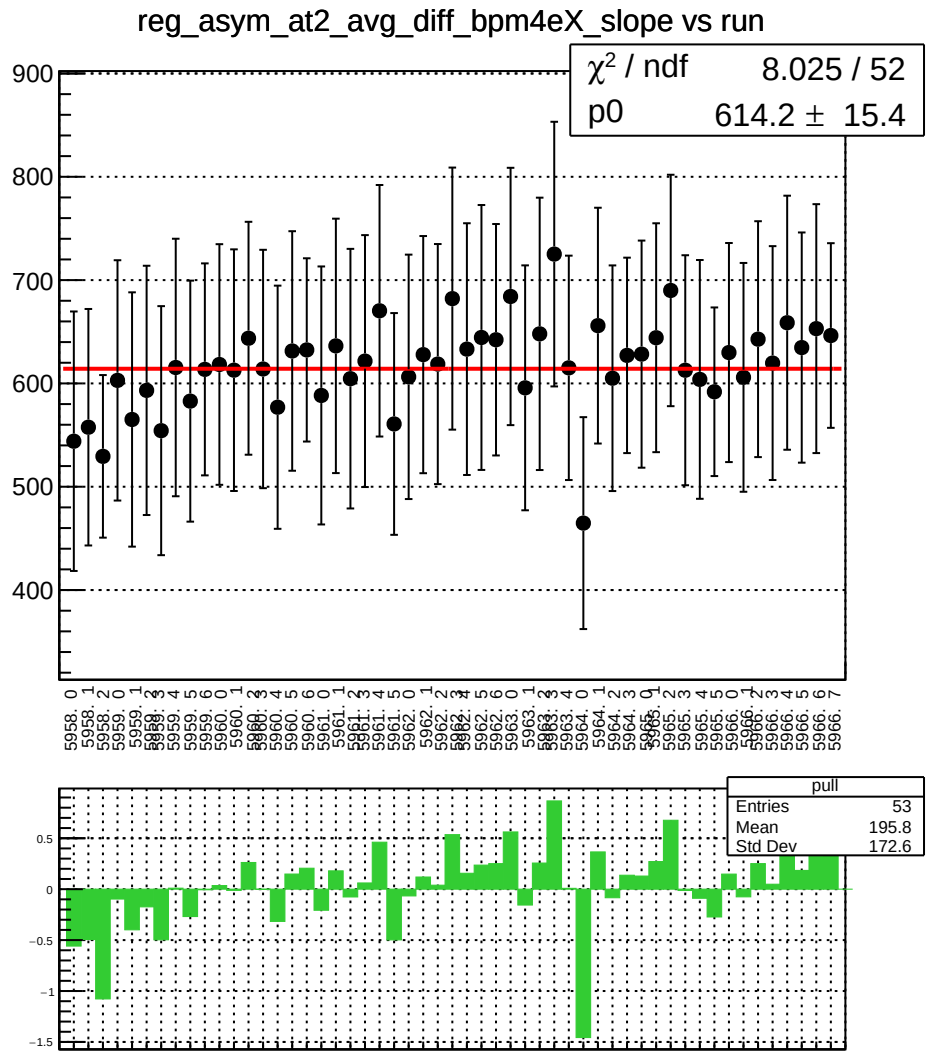

pull1D
Entries 53
Mean −0.04036
Std Dev 0.9719

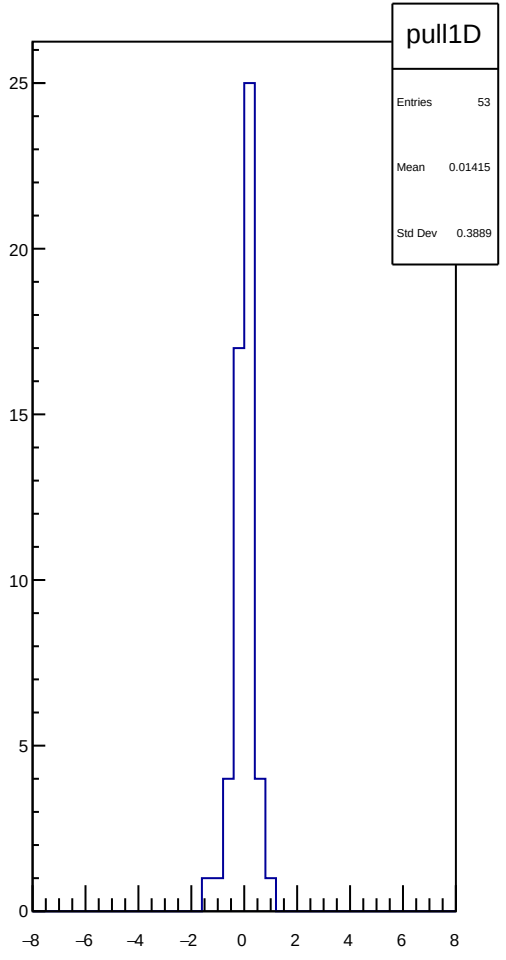

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.985 / 52
p0 −531.6 ± 14.54
pull
Entries 53
Mean 206.7
Std Dev 183.2

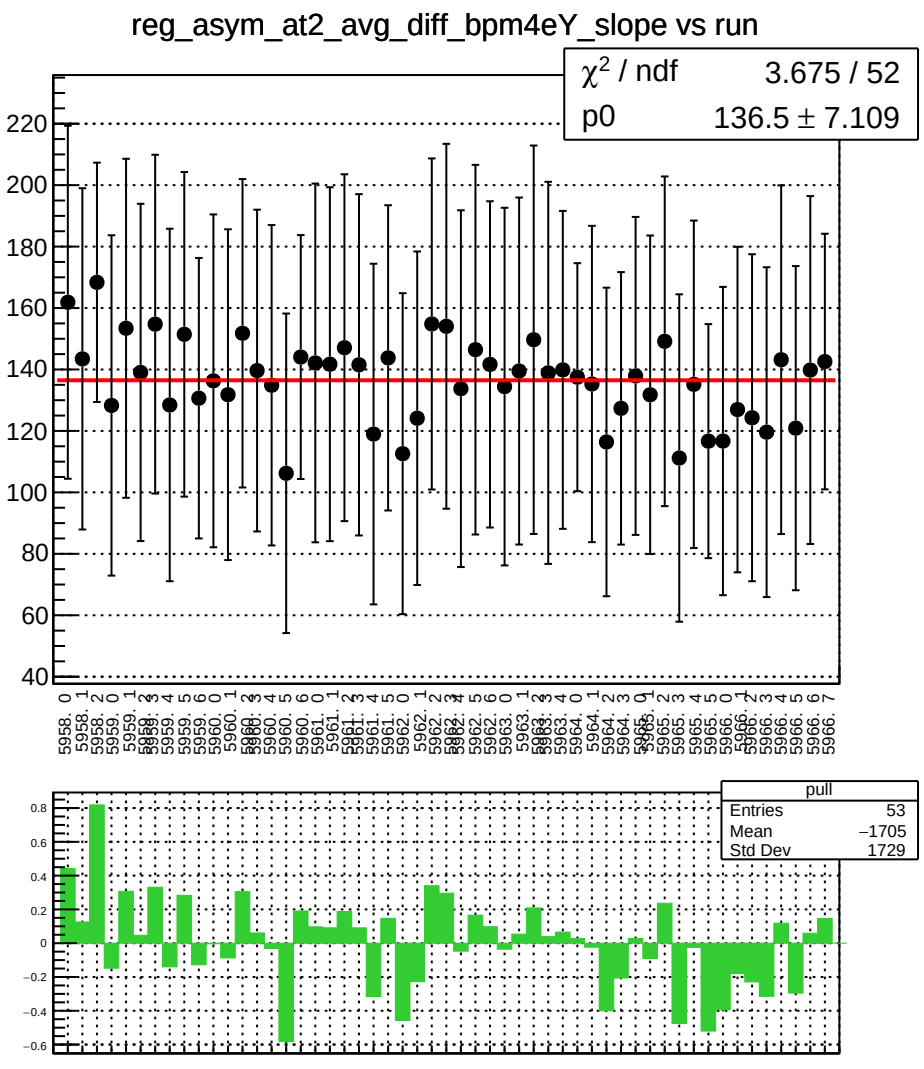

pull1D
Entries 53
Mean −0.01388
Std Dev 0.3879

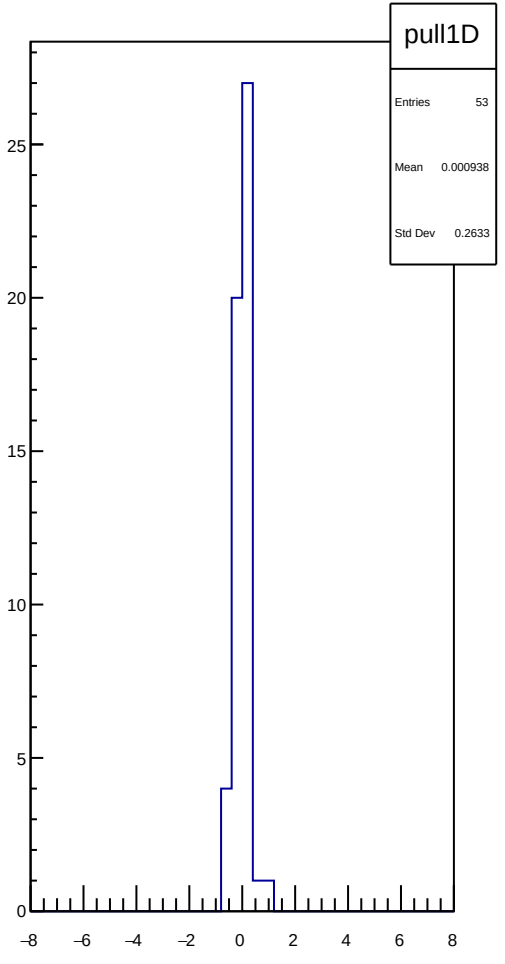

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.522 / 52
p0 −17.13 ± 5.514
pull
Entries 53
Mean 2.369e+04
Std Dev 2.366e+04

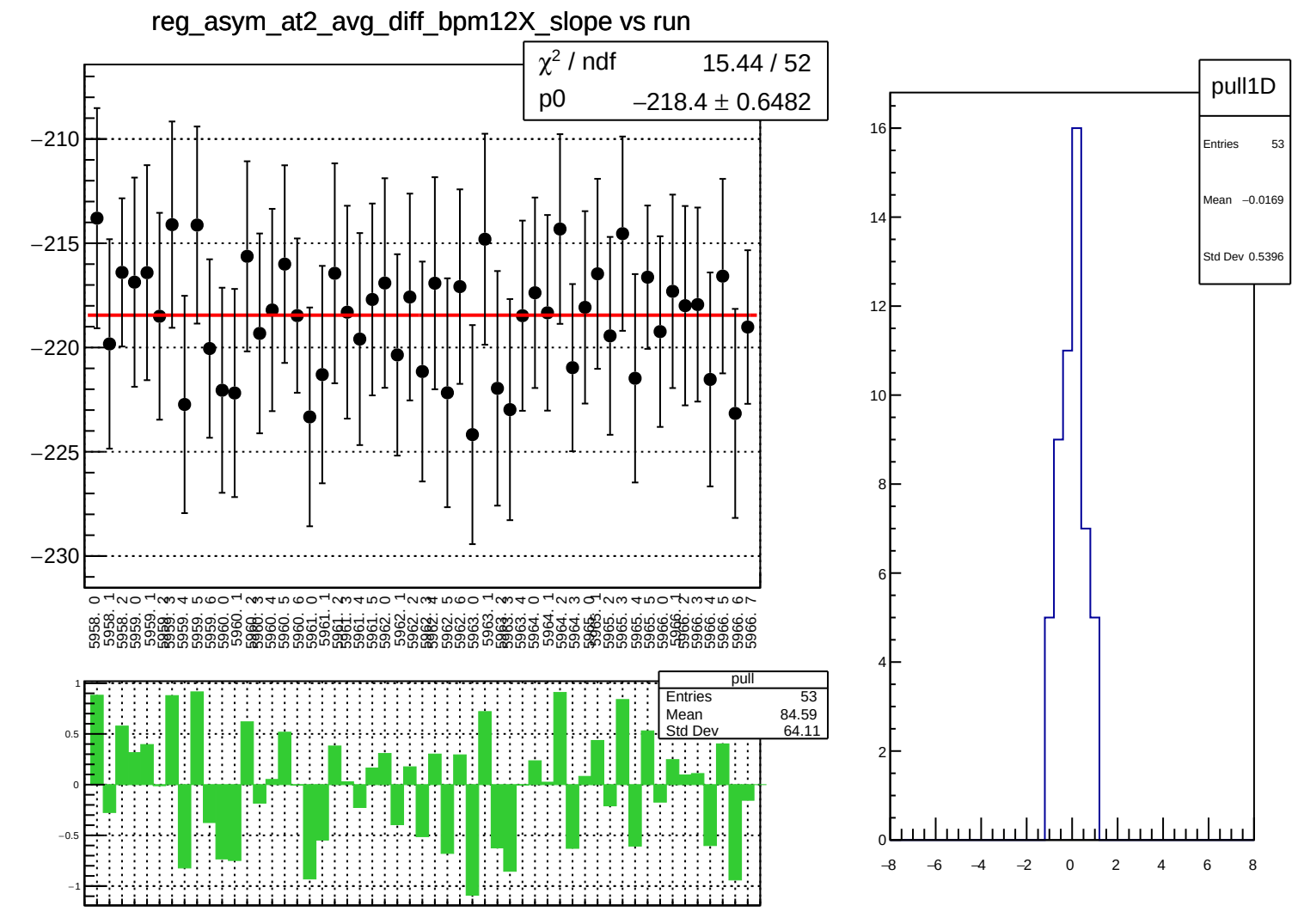

pull1D
Entries 53
Mean 4.945e−05
Std Dev 0.2578

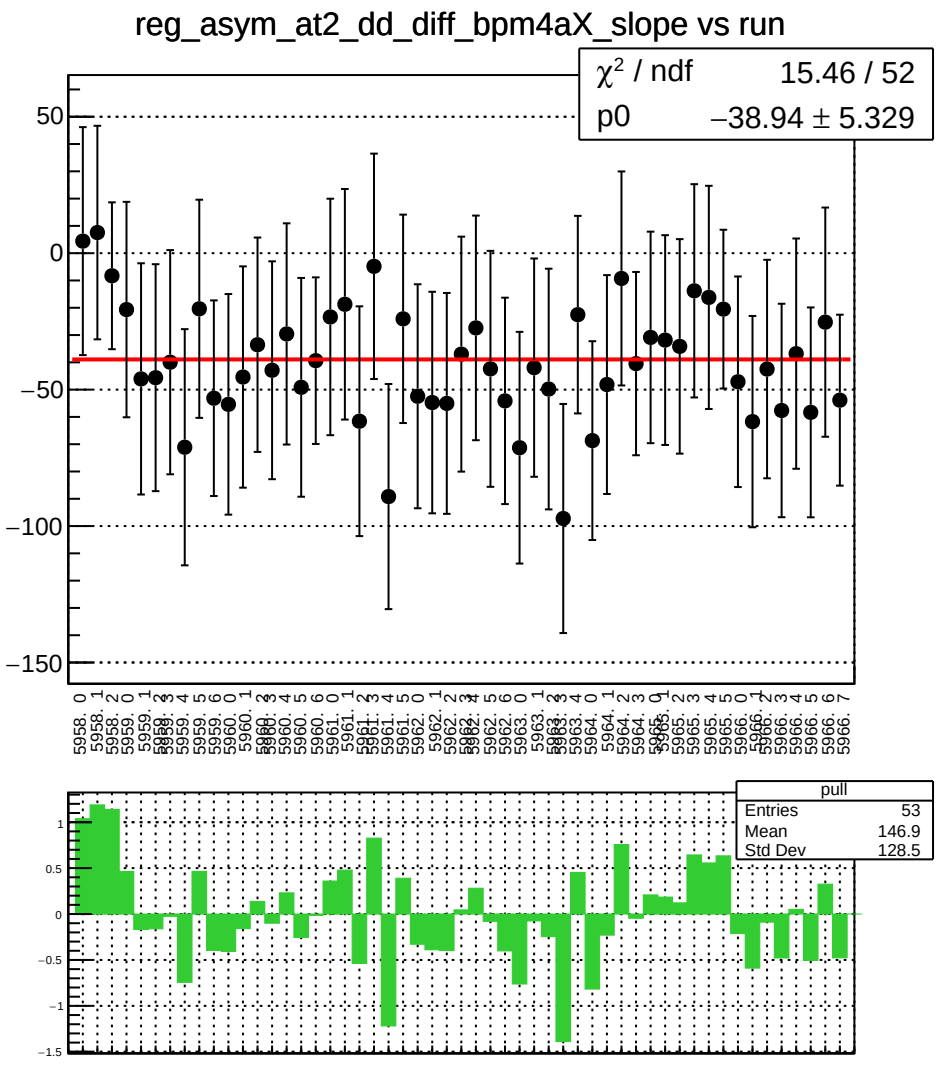

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.025 / 52
p0 614.2 ± 15.4
900
800
700
600
500
400
pull
Entries 53
Mean 195.8
Std Dev 172.6
0.5
0
−0.5
−1
−1.5

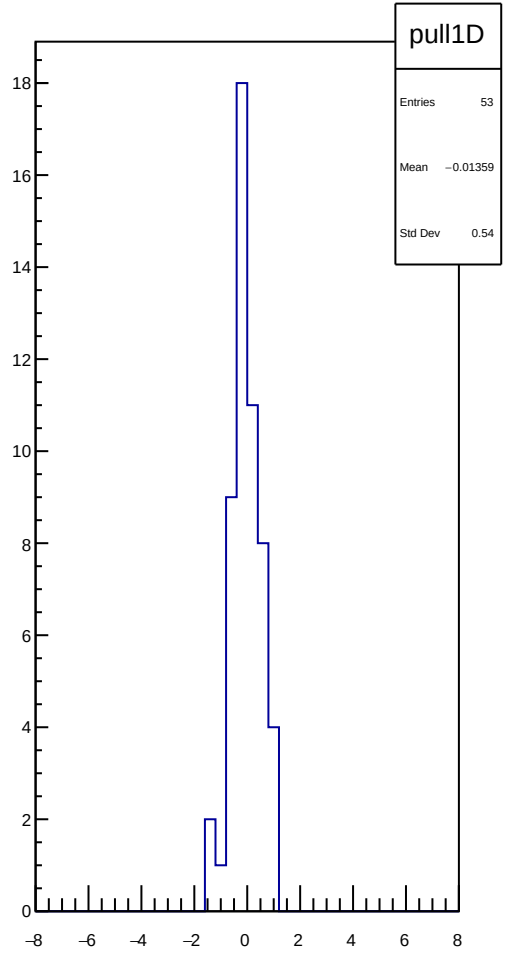

pull1D
Entries 53
Mean 0.01415
Std Dev 0.3889
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

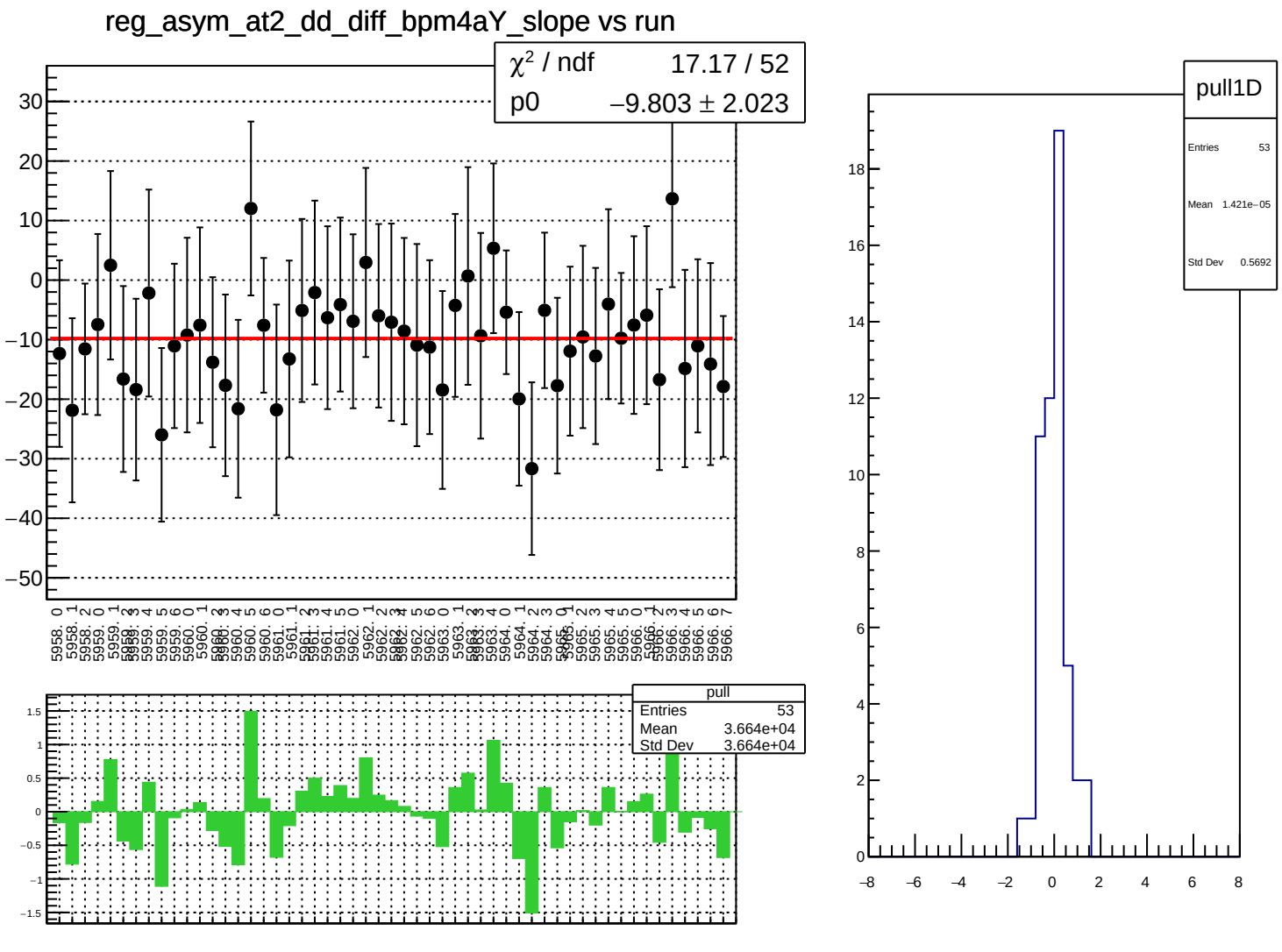

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.675 / 52
p0 136.5 ± 7.109
pull
Entries 53
Mean −1705
Std Dev 1729

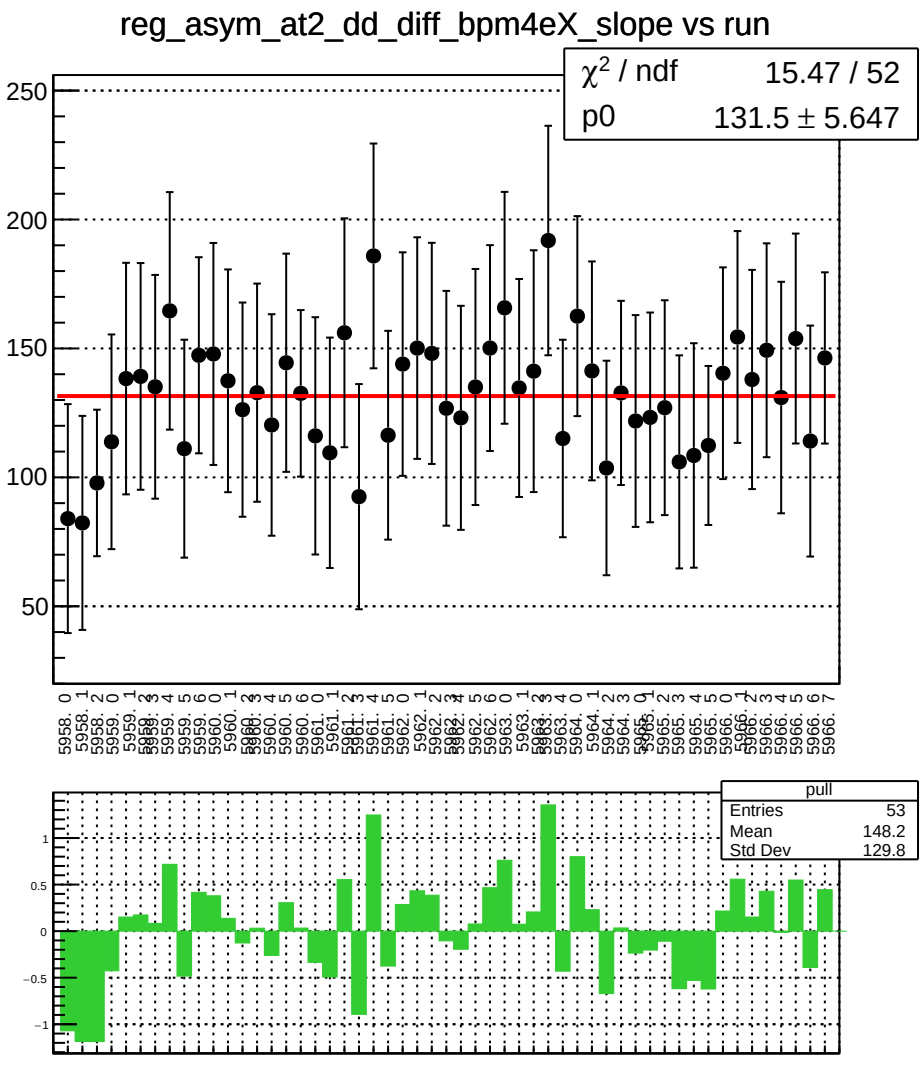

pull1D
Entries 53
Mean 0.000938
Std Dev 0.2633

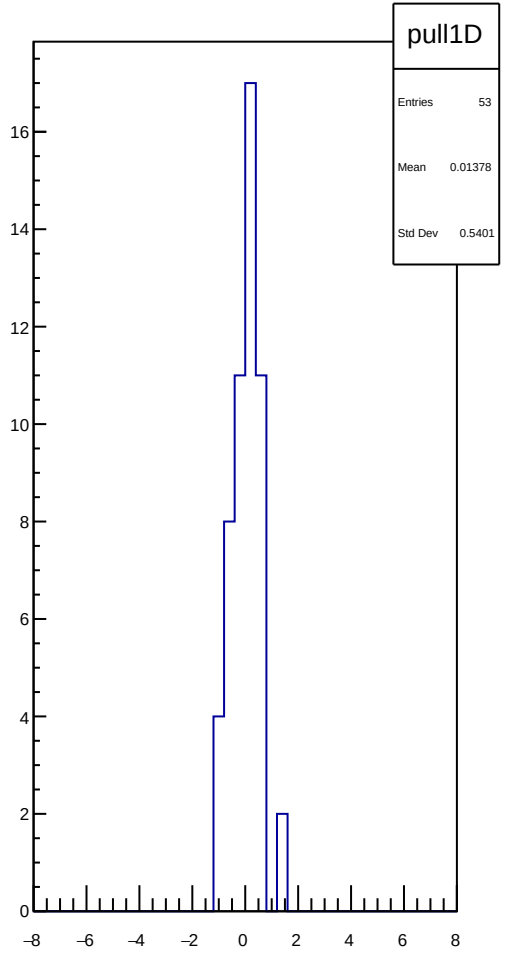

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 15.44 / 52
p0 −218.4 ± 0.6482
−210
−215
−220
−225
−230
pull
Entries 53
Mean 84.59
Std Dev 64.11
1
0.5
0
−0.5
−1
pull1D
Entries 53
Mean −0.0169
Std Dev 0.5396
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

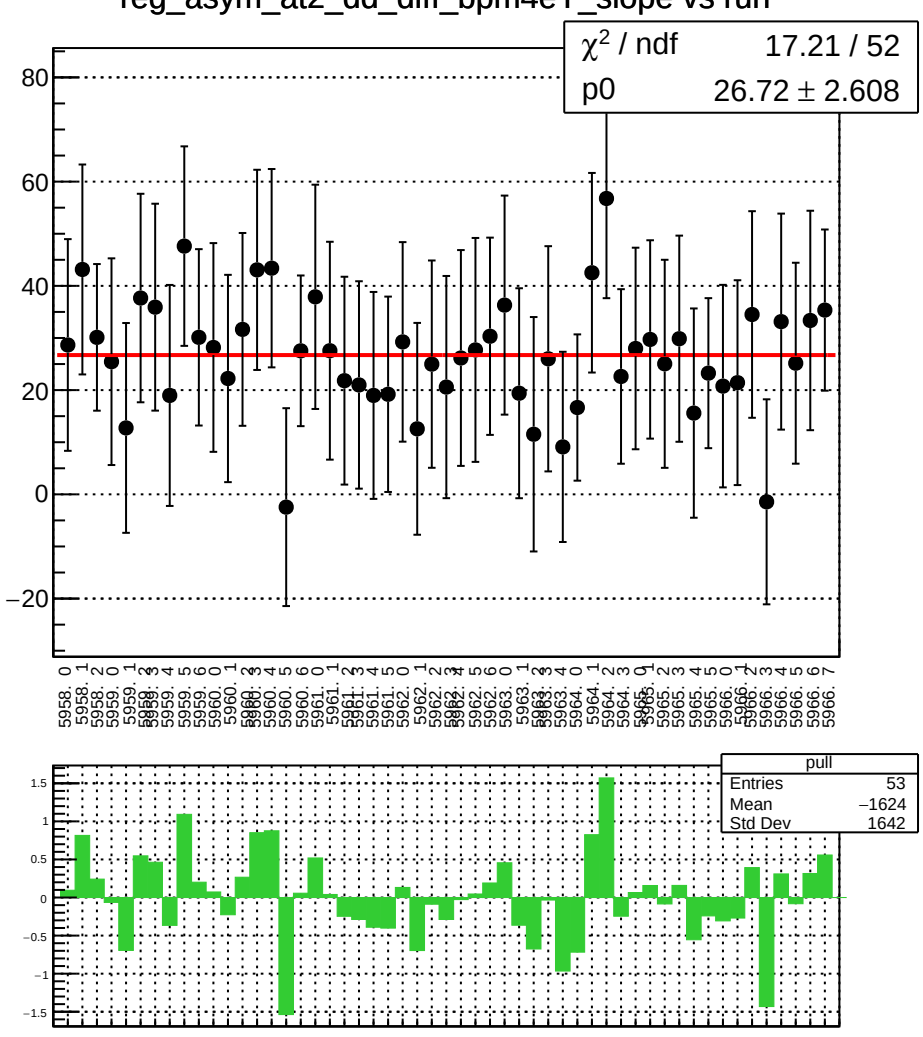

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.46 / 52
p0 −38.94 ± 5.329
pull
Entries 53
Mean 146.9
Std Dev 128.5

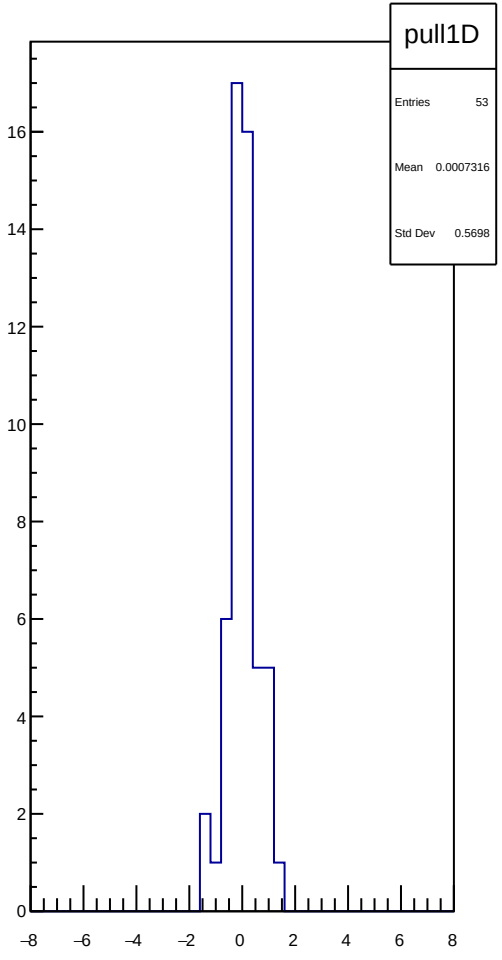

pull1D
Entries 53
Mean −0.01359
Std Dev 0.54

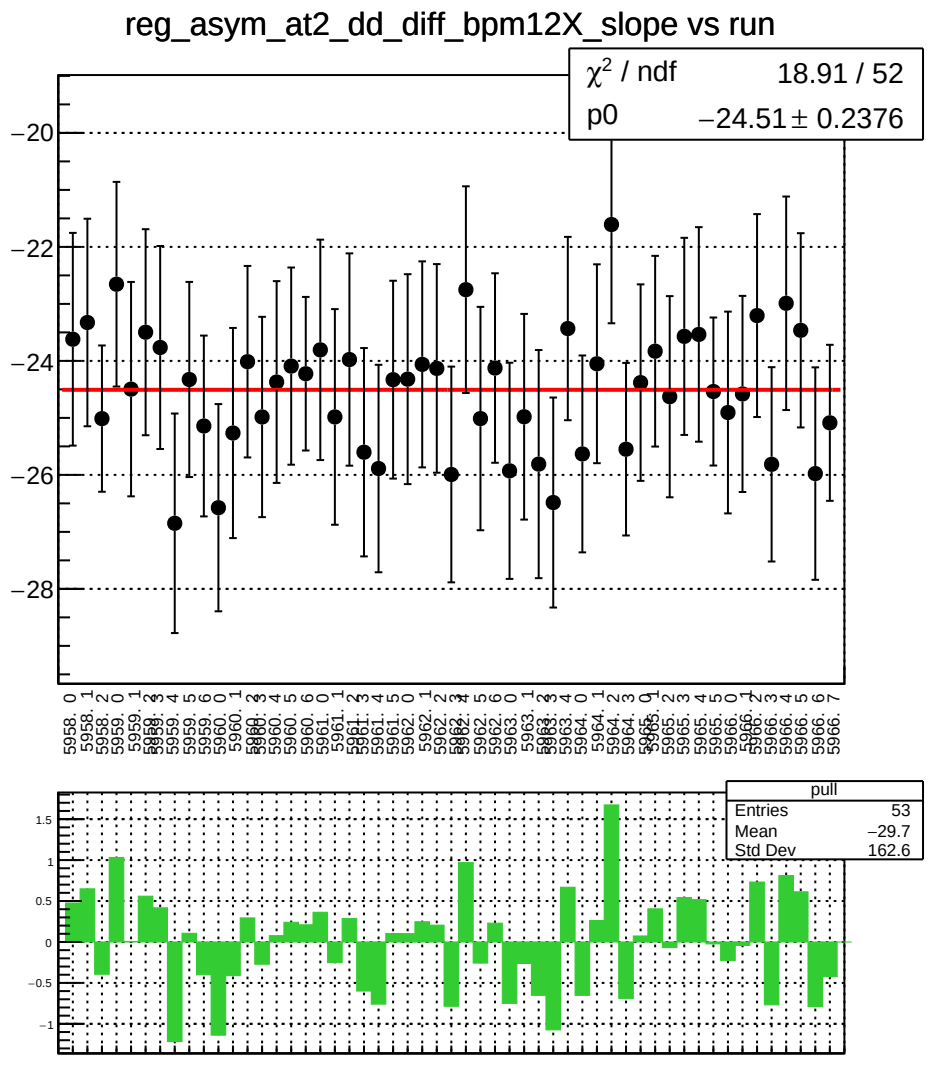

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.17 / 52
p0 −9.803 ± 2.023
pull
Entries 53
Mean 3.664e+04
Std Dev 3.664e+04
pull1D
Entries 53
Mean 1.421e−05
Std Dev 0.5692

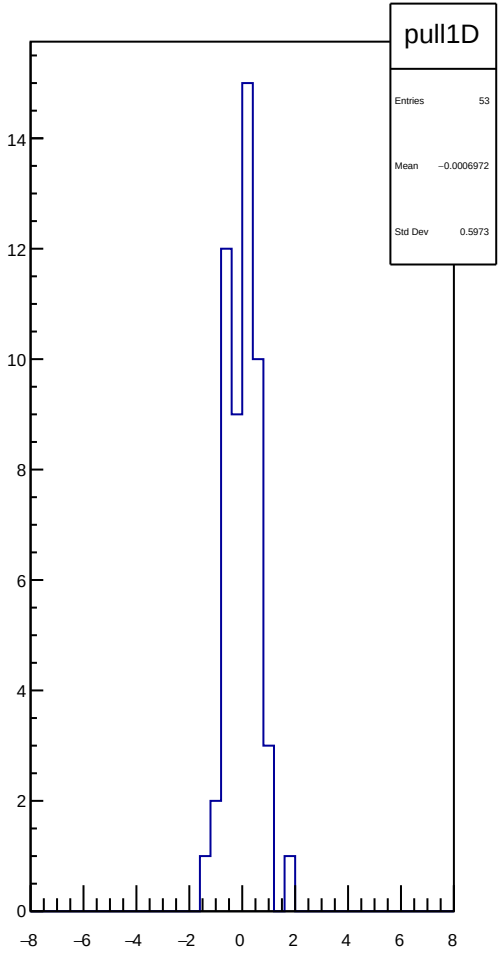

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.47 / 52
p0 131.5 ± 5.647
250
200
150
100
50
pull
Entries 53
Mean 148.2
Std Dev 129.8
1
0.5
0
−0.5
−1

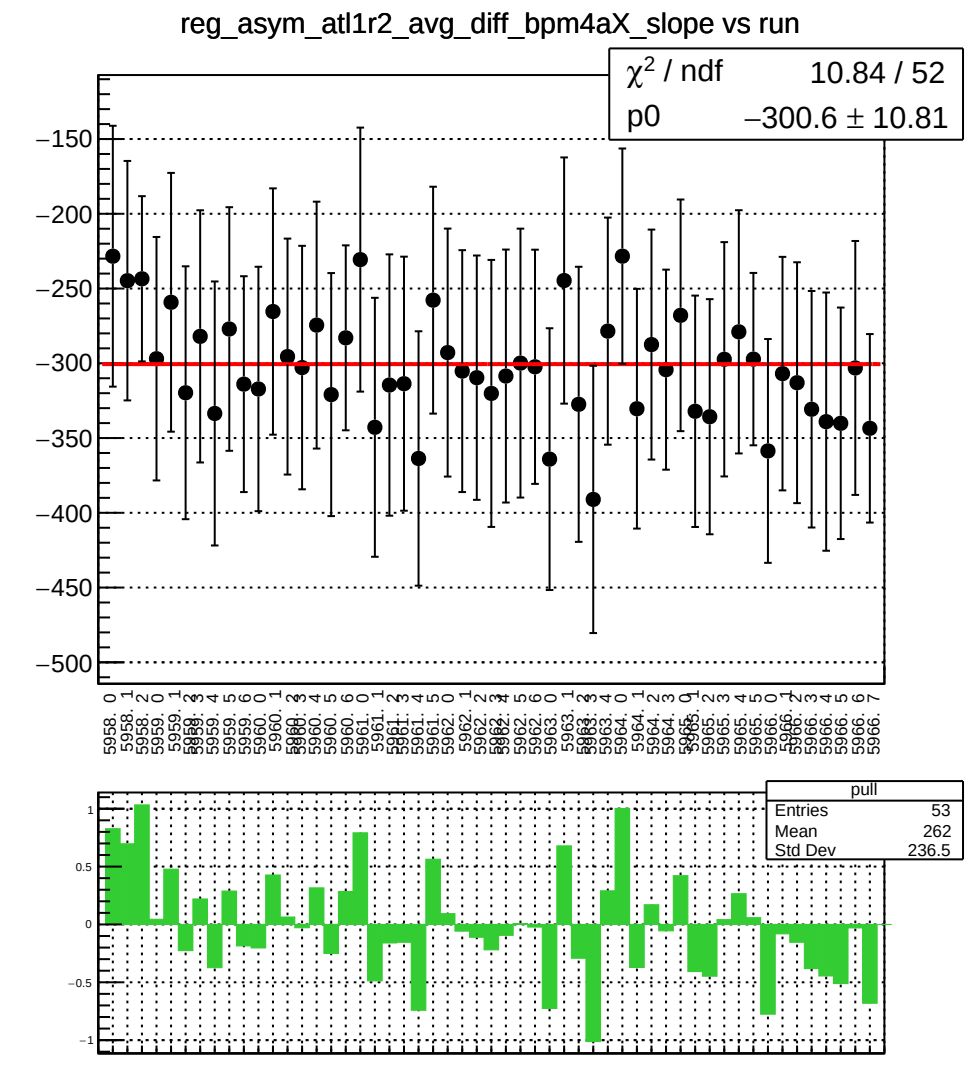

pull1D
Entries 53
Mean 0.01378
Std Dev 0.5401
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

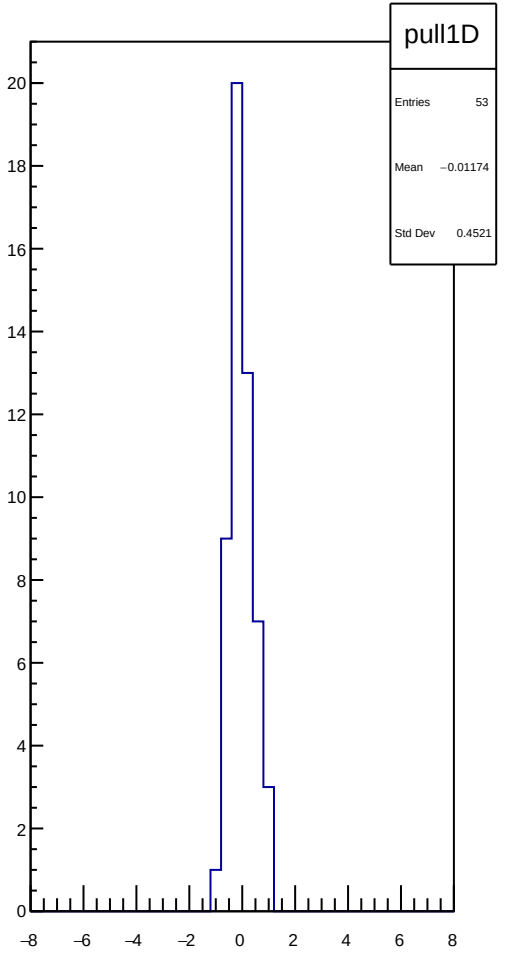

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.21 / 52
p0 26.72 ± 2.608
pull
Entries 53
Mean −1624
Std Dev 1642

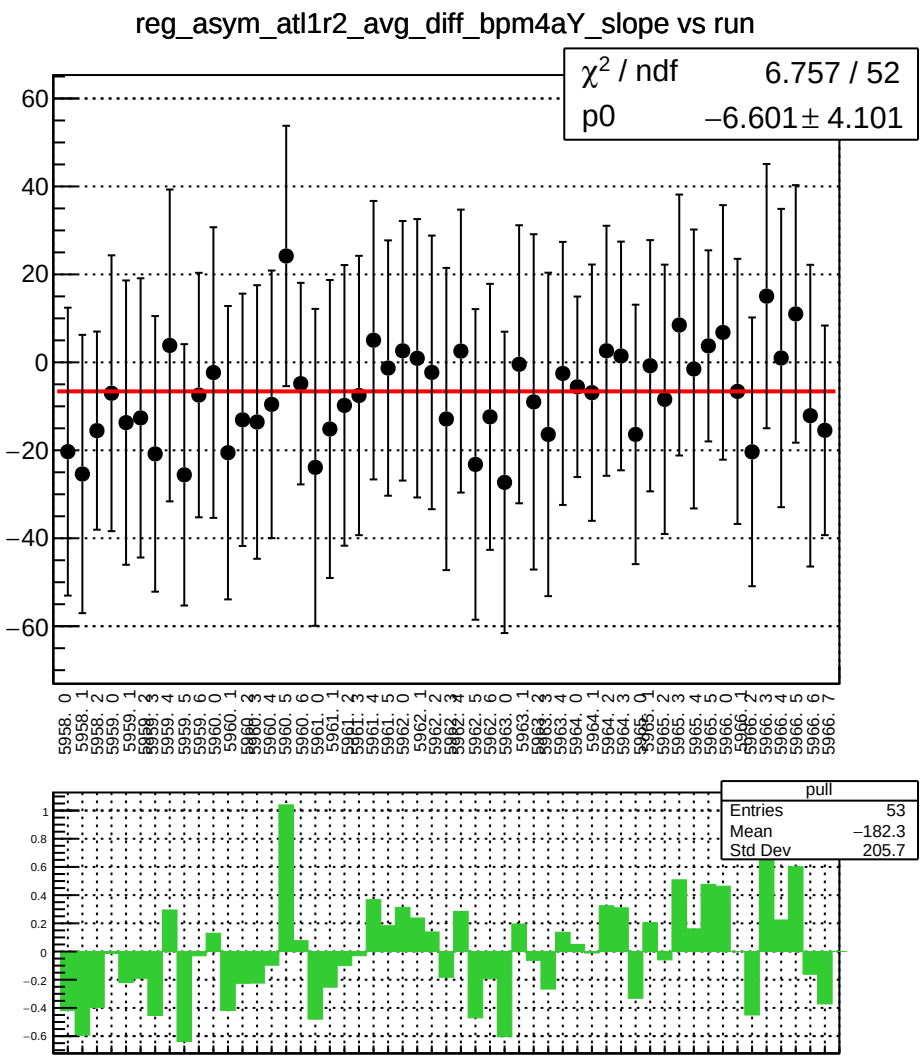

pull1D
Entries 53
Mean 0.0007316
Std Dev 0.5698

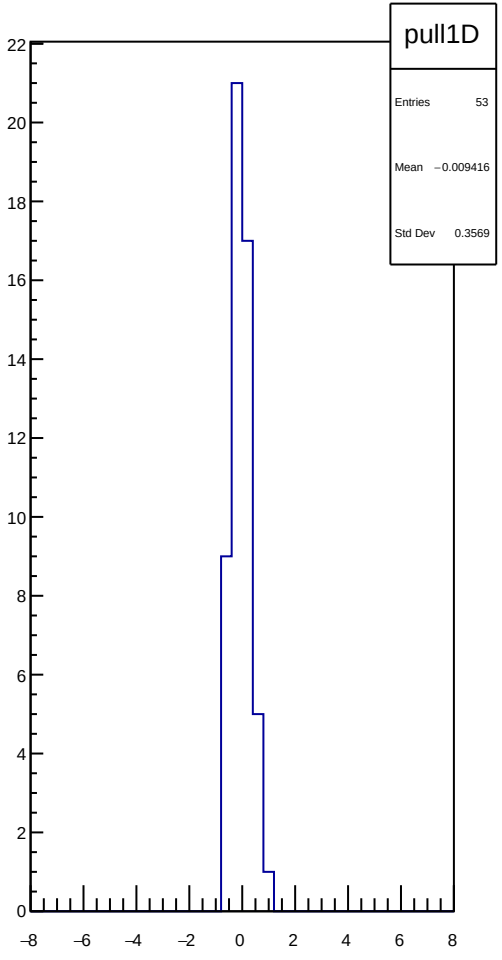

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.91 / 52
p0 −24.51 ± 0.2376
pull
Entries 53
Mean −29.7
Std Dev 162.6

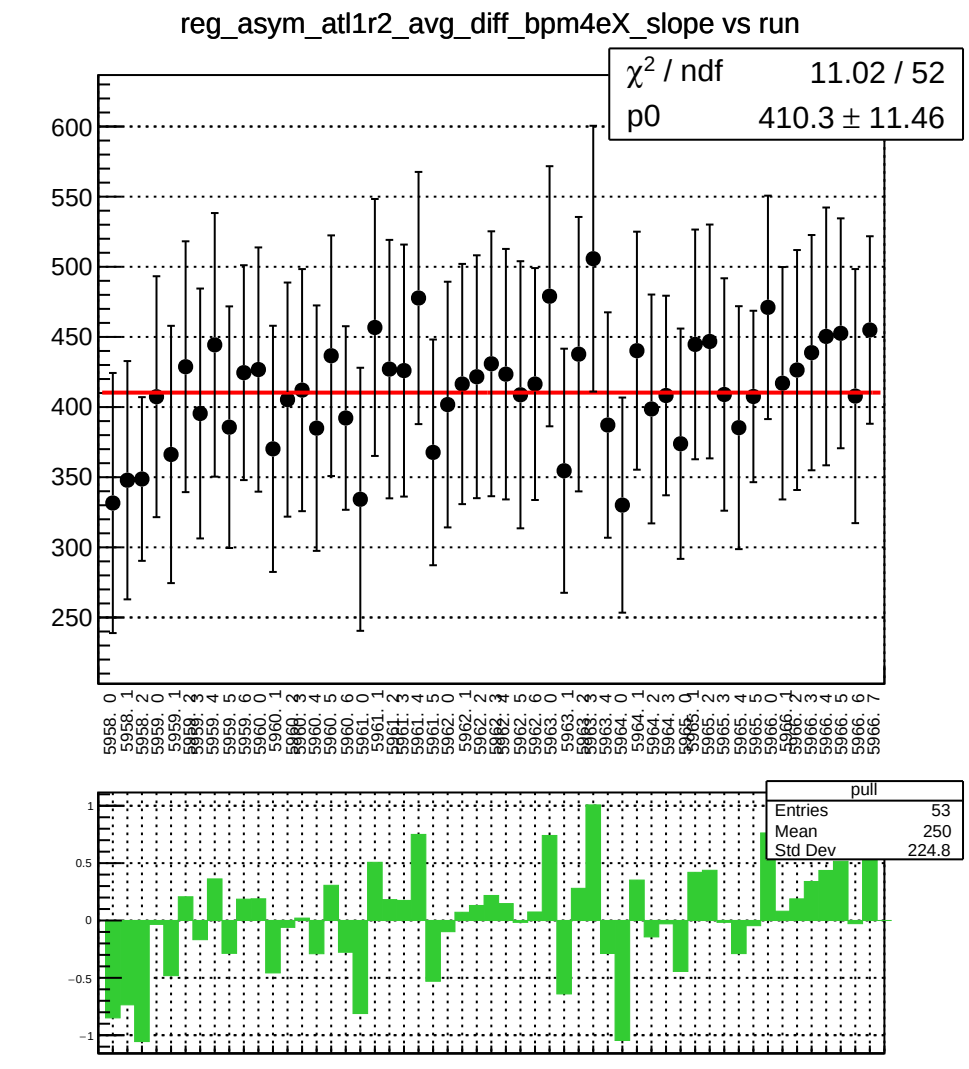

pull1D
Entries 53
Mean −0.0006972
Std Dev 0.5973

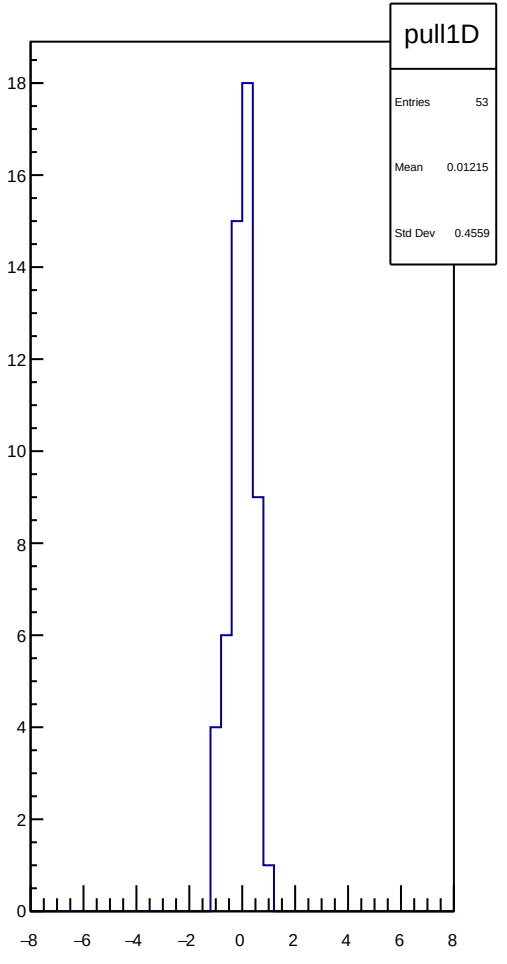

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.84 / 52
p0 −300.6 ± 10.81
pull
Entries 53
Mean 262
Std Dev 236.5

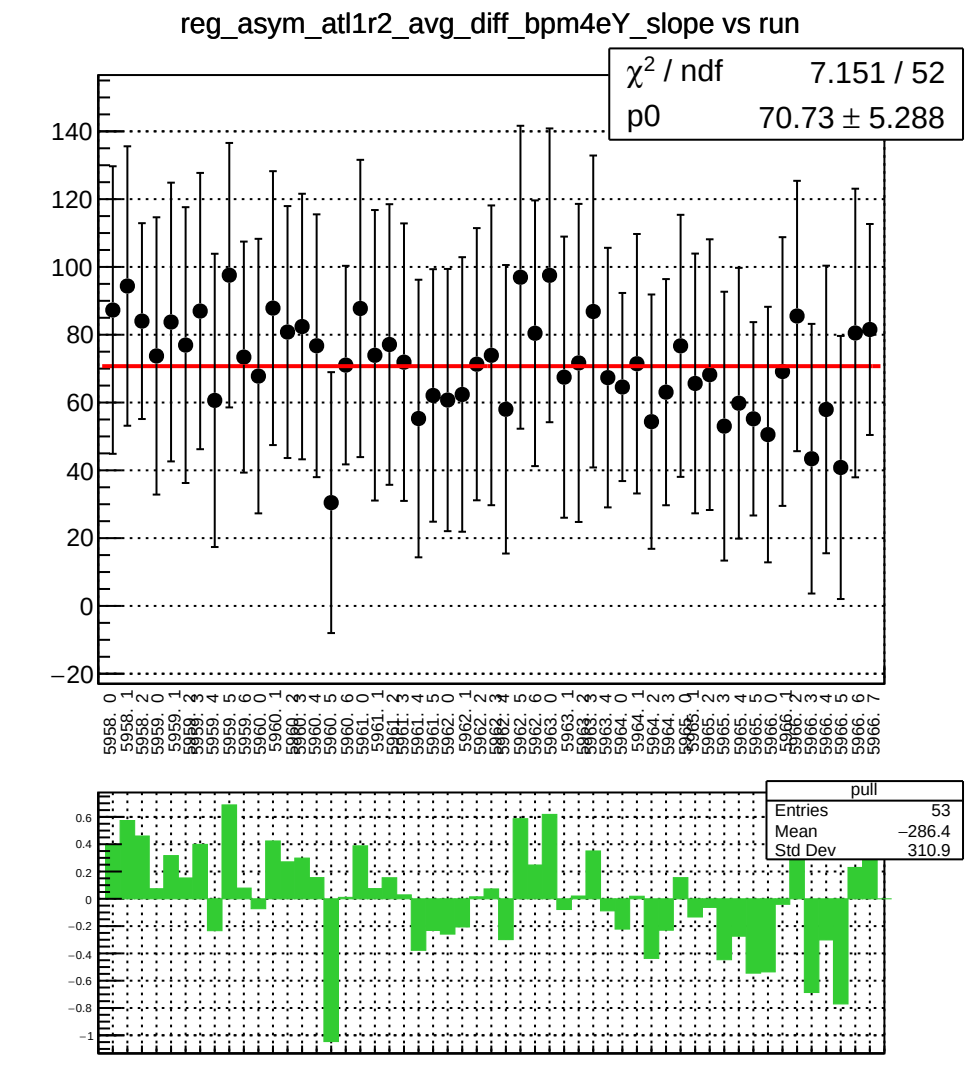

pull1D
Entries 53
Mean −0.01174
Std Dev 0.4521

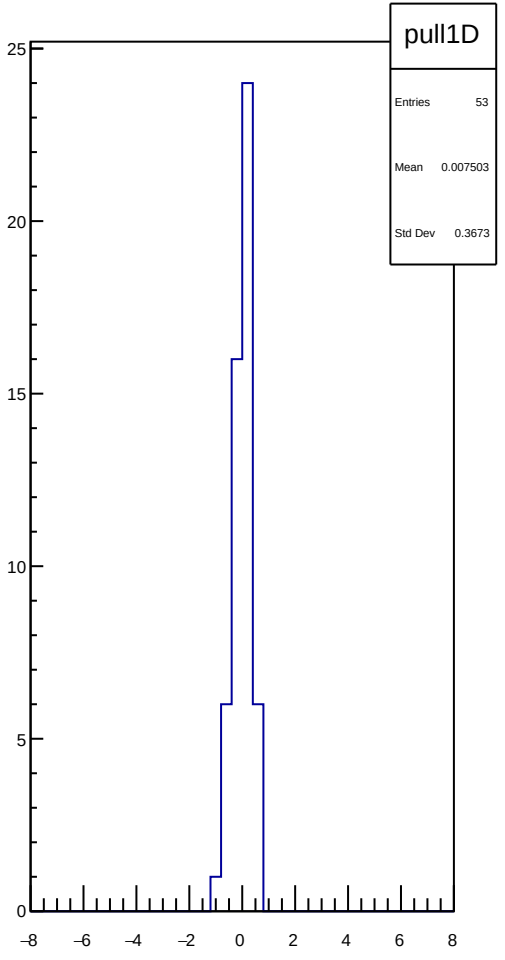

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.757 / 52
p0 −6.601 ± 4.101
pull
Entries 53
Mean −182.3
Std Dev 205.7

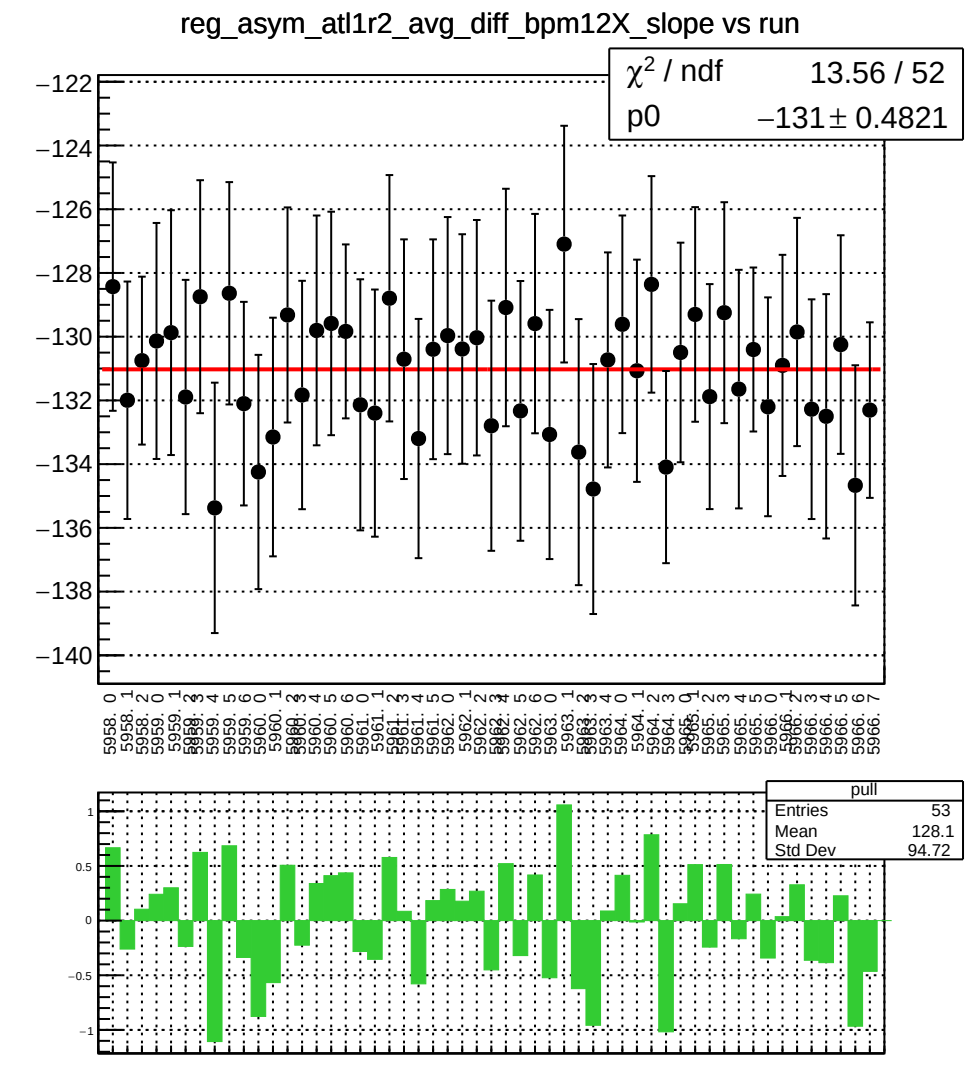

pull1D
Entries 53
Mean −0.009416
Std Dev 0.3569

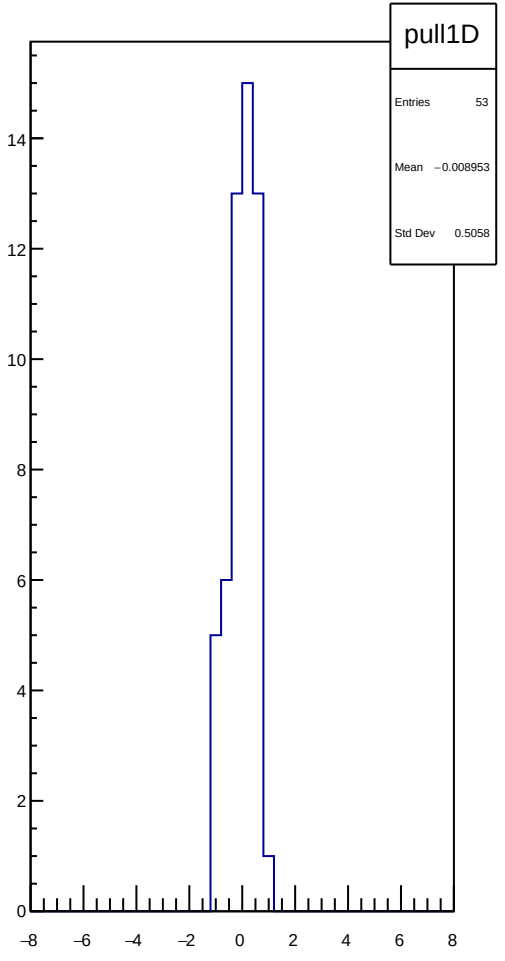

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 11.02 / 52
p0 410.3 ± 11.46
pull
Entries 53
Mean 250
Std Dev 224.8

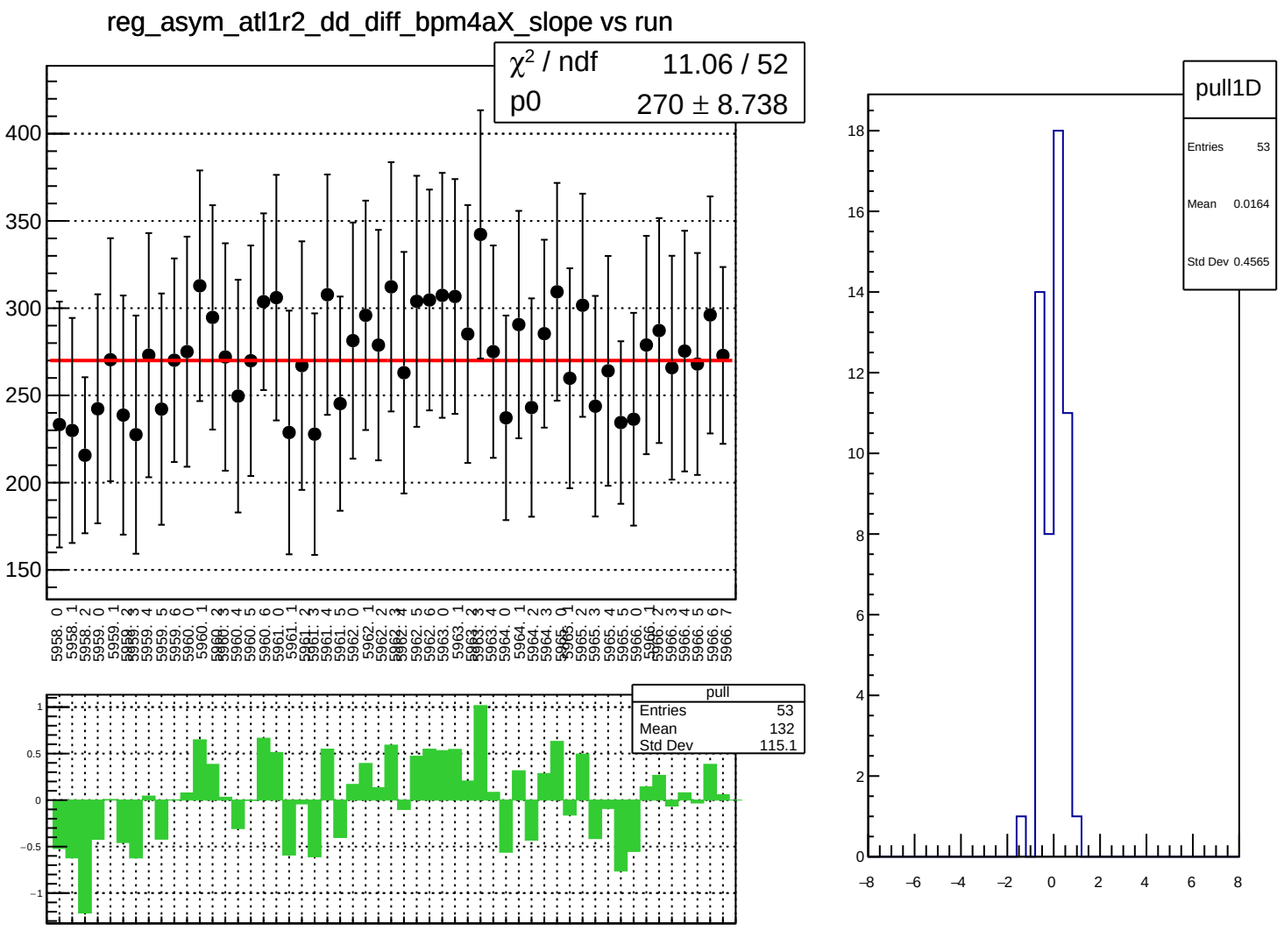

pull1D
Entries 53
Mean 0.01215
Std Dev 0.4559

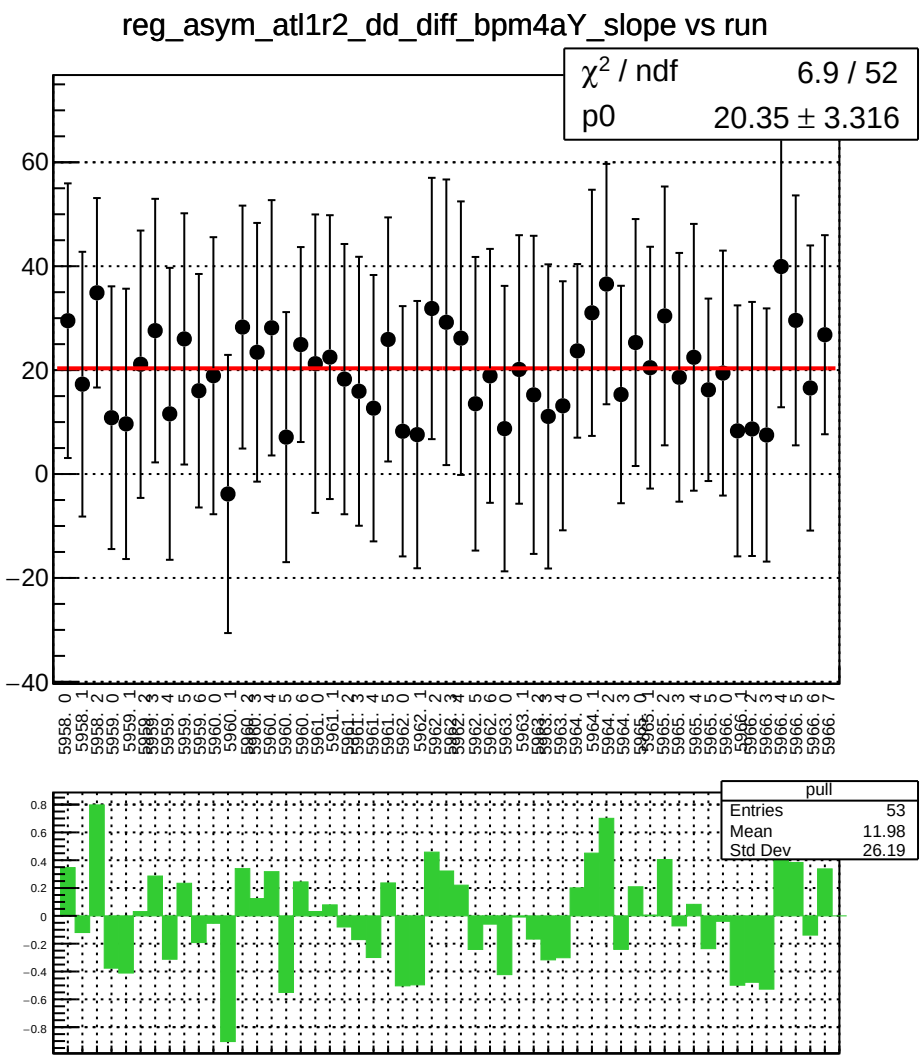

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.151 / 52
p0 70.73 ± 5.288
pull
Entries 53
Mean −286.4
Std Dev 310.9

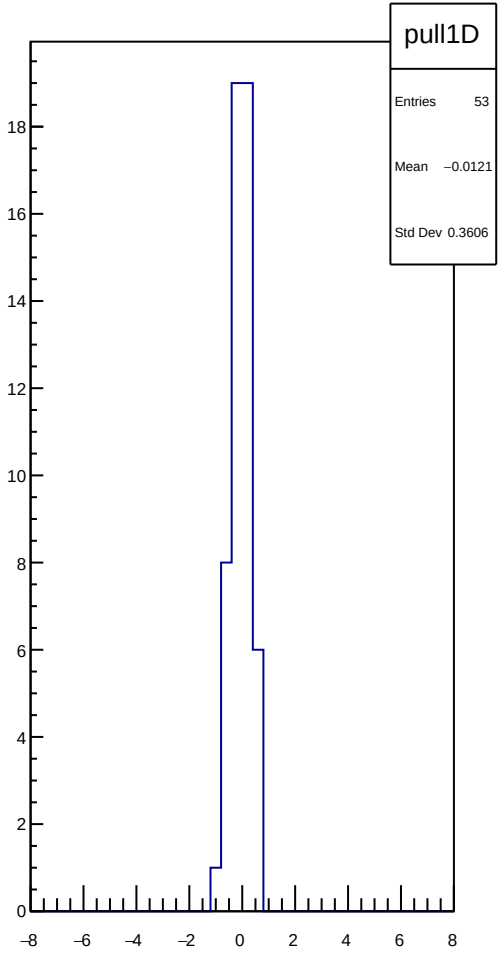

pull1D
Entries 53
Mean 0.007503
Std Dev 0.3673

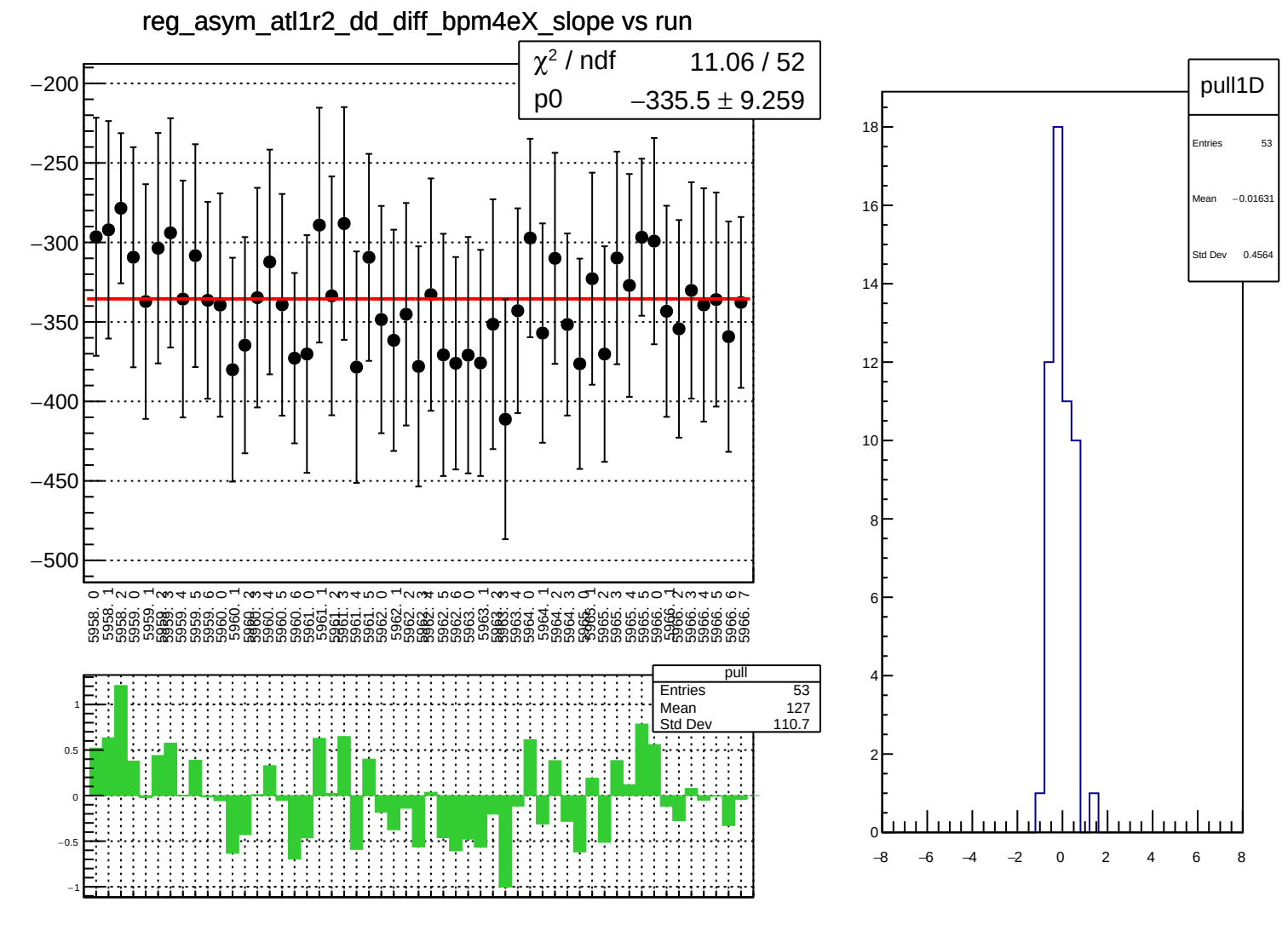

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.56 / 52
p0 −131 ± 0.4821
pull
Entries 53
Mean 128.1
Std Dev 94.72

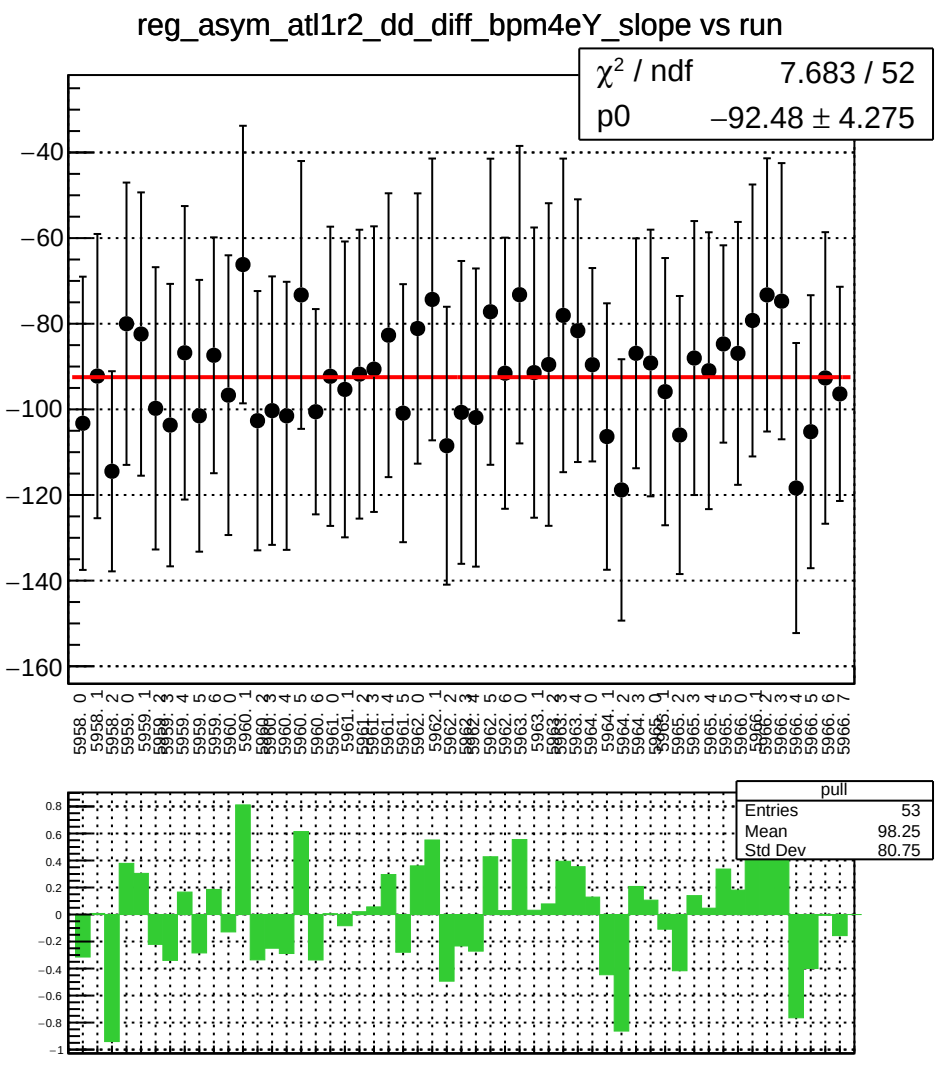

pull1D
Entries 53
Mean −0.008953
Std Dev 0.5058

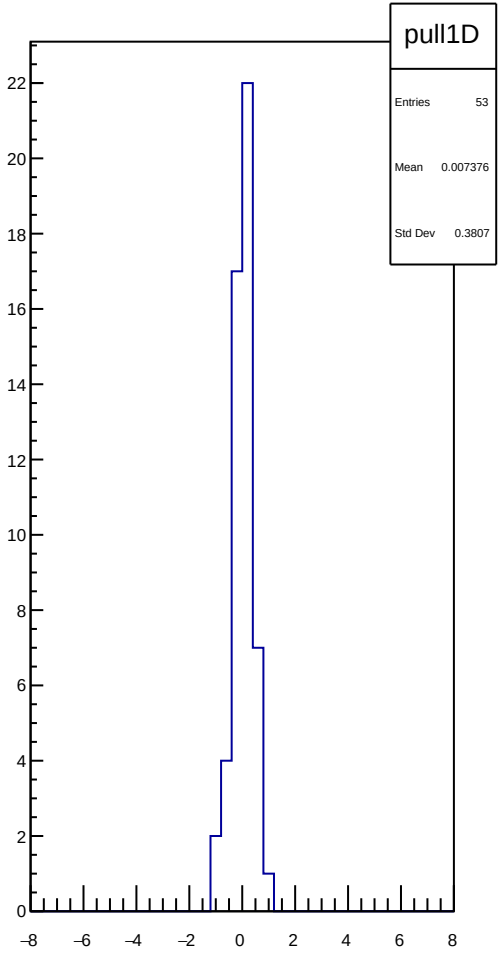

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.06 / 52
p0 270 ± 8.738
pull
Entries 53
Mean 132
Std Dev 115.1
pull1D
Entries 53
Mean 0.0164
Std Dev 0.4565

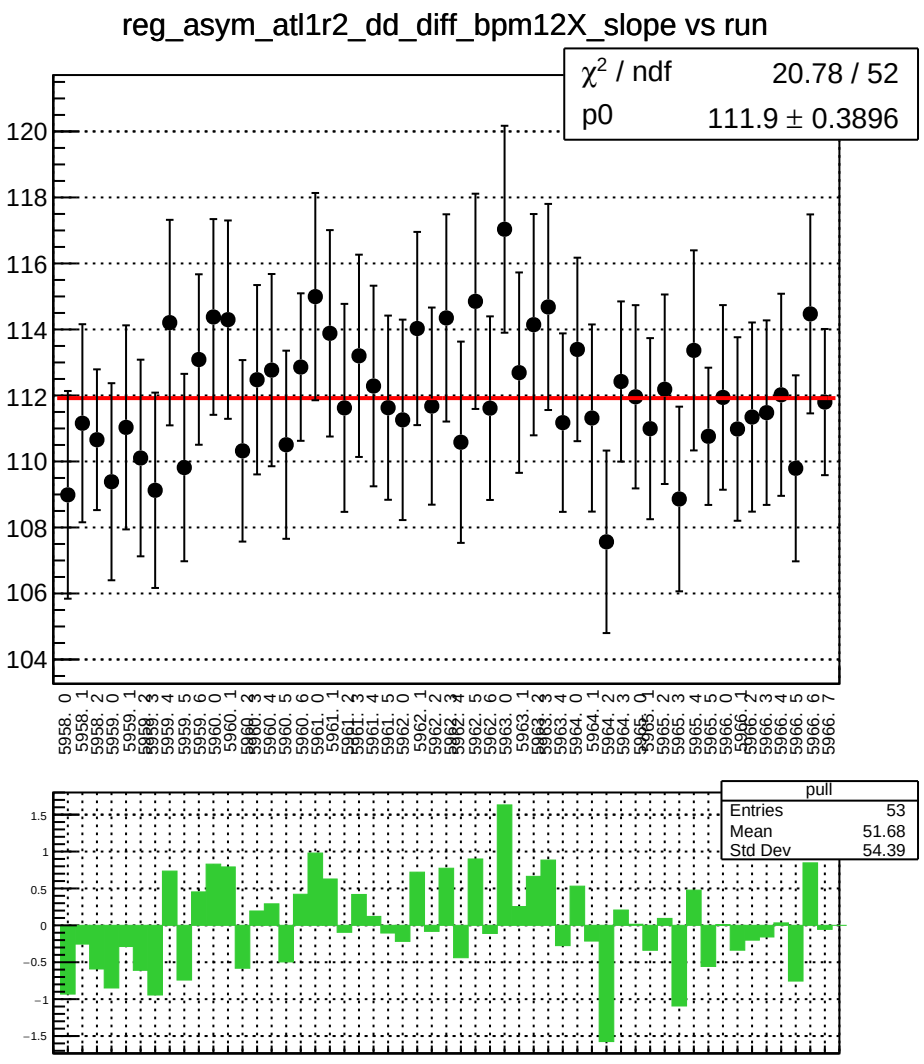

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.9 / 52
p0 20.35 ± 3.316
pull
Entries 53
Mean 11.98
Std Dev 26.19

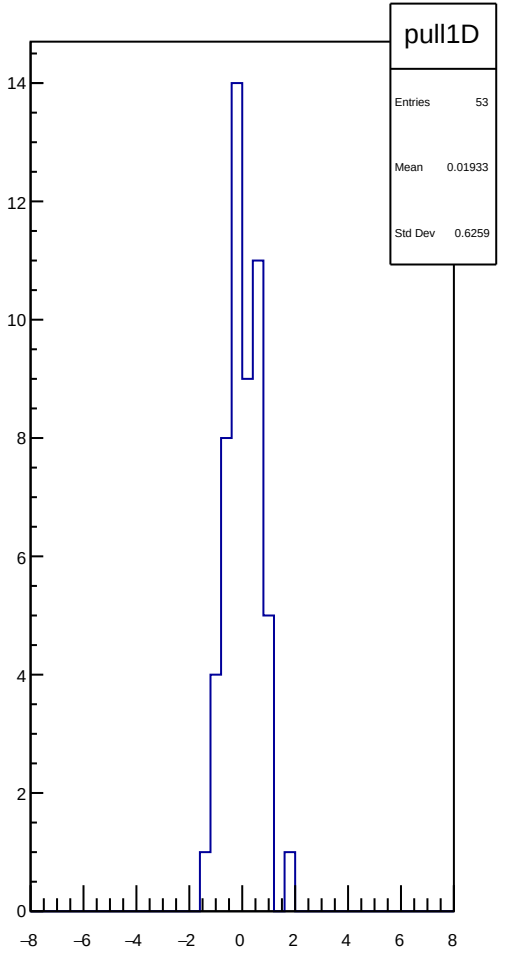

pull1D
Entries 53
Mean −0.0121
Std Dev 0.3606

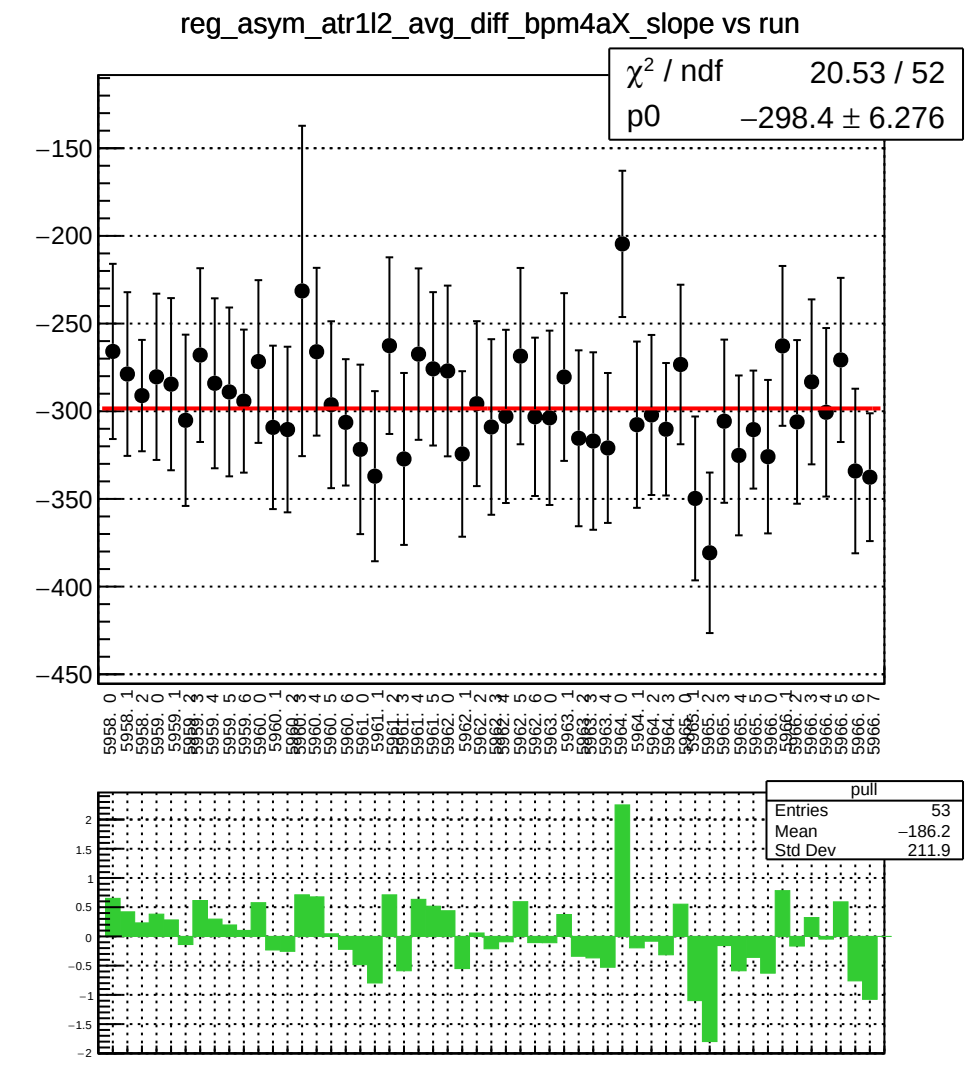

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.06 / 52
p0 −335.5 ± 9.259
pull
Entries 53
Mean 127
Std Dev 110.7
pull1D
Entries 53
Mean −0.01631
Std Dev 0.4564

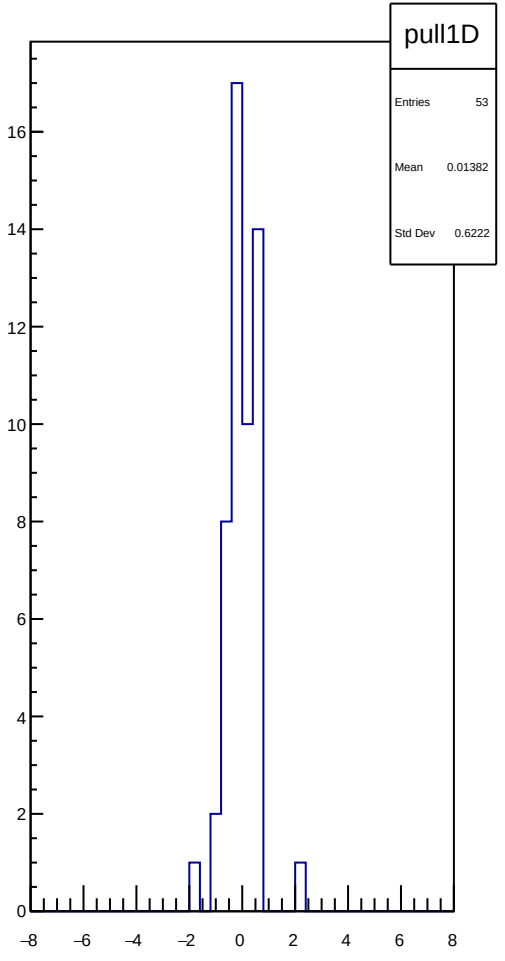

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.683 / 52
p0 −92.48 ± 4.275
pull
Entries 53
Mean 98.25
Std Dev 80.75

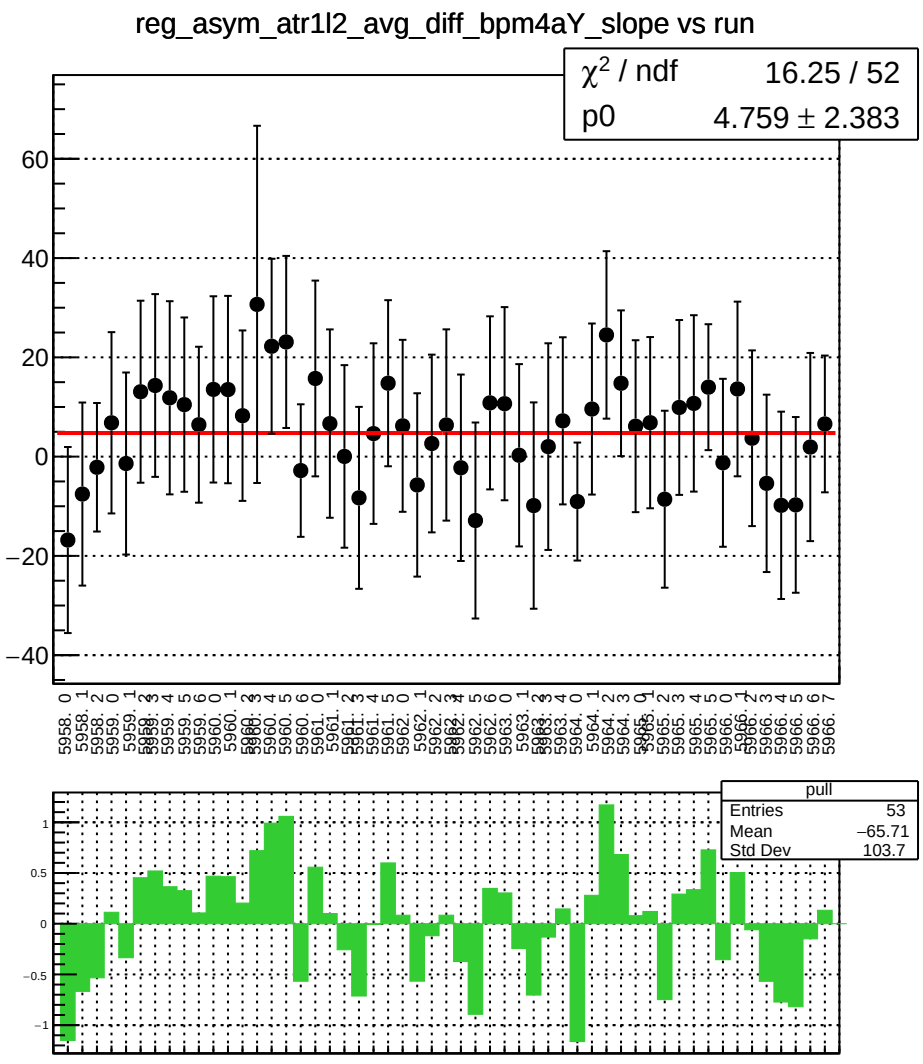

pull1D
Entries 53
Mean 0.007376
Std Dev 0.3807

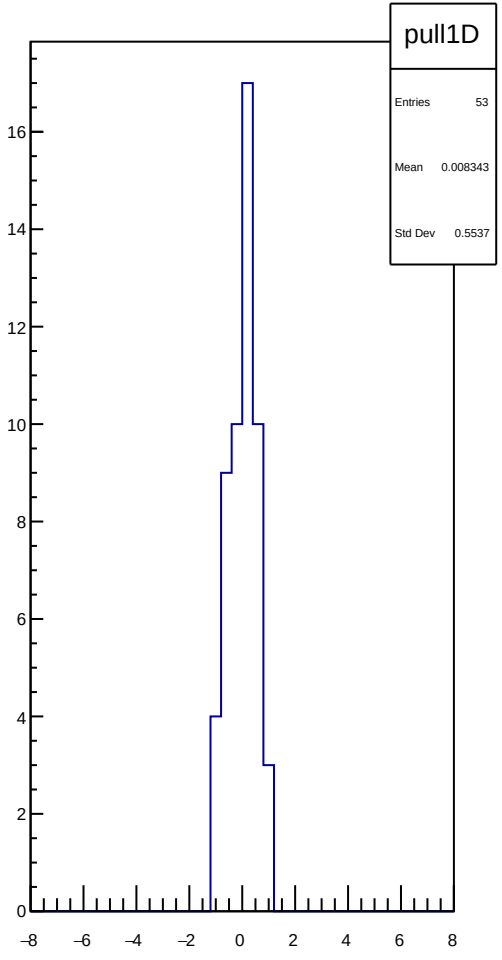

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.78 / 52
p0 111.9 ± 0.3896
pull
Entries 53
Mean 51.68
Std Dev 54.39

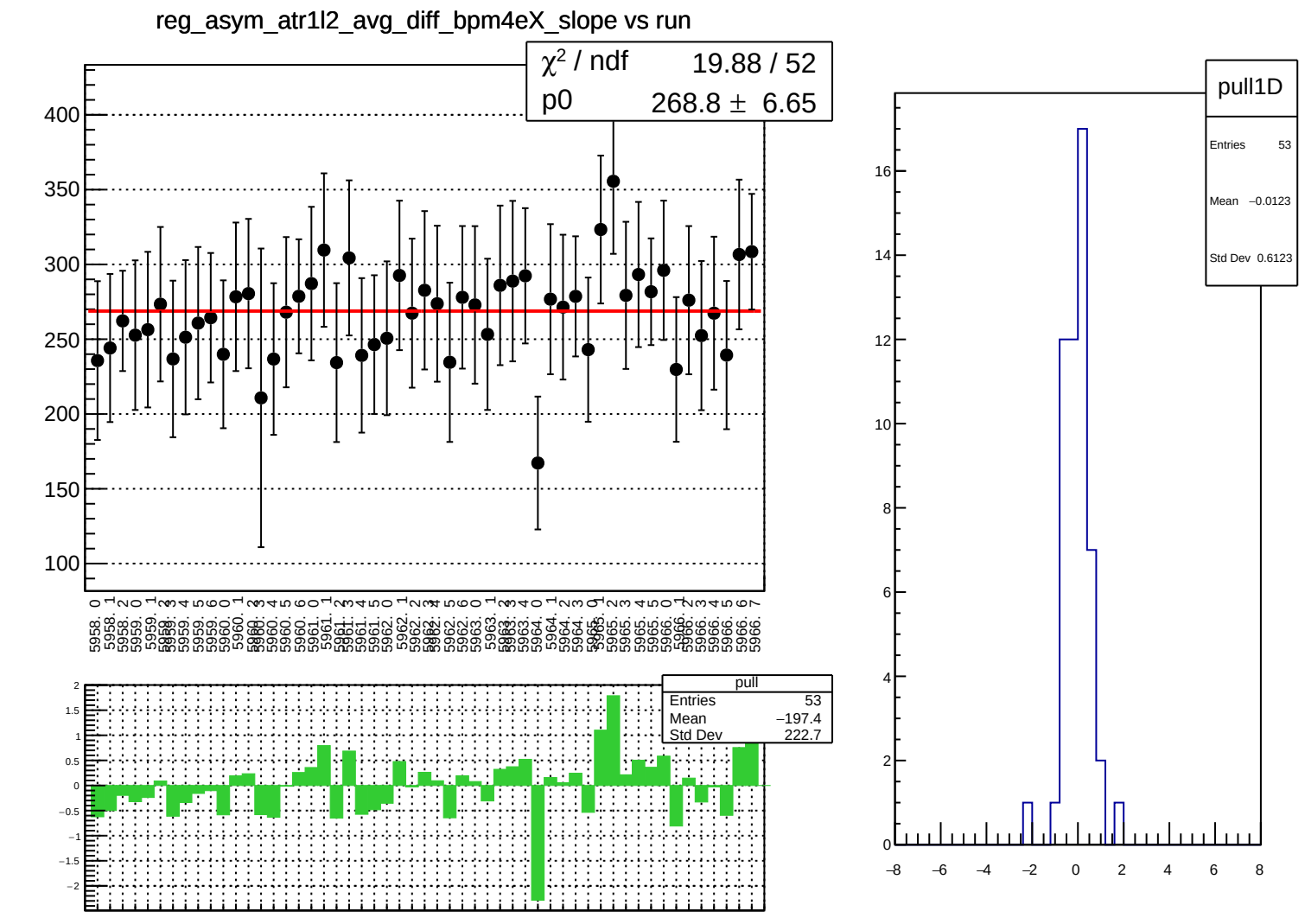

pull1D
Entries 53
Mean 0.01933
Std Dev 0.6259

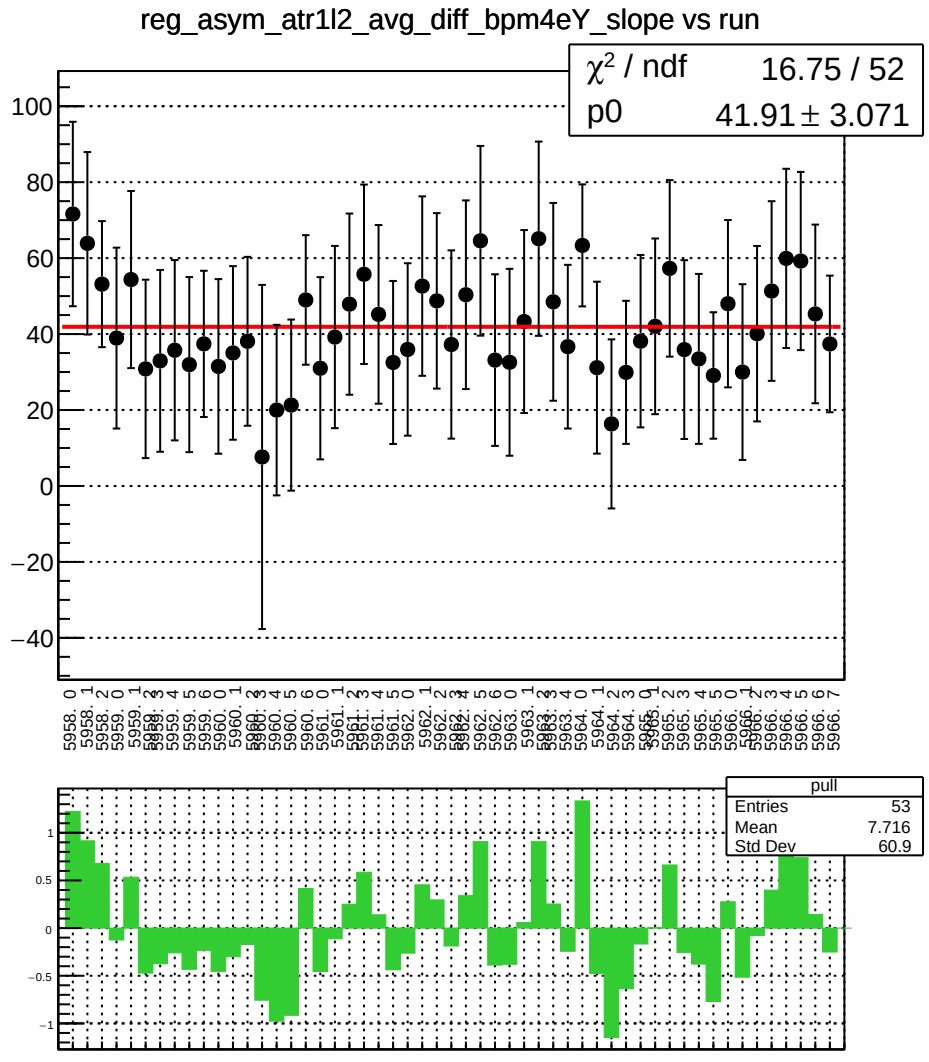

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.53 / 52
p0 −298.4 ± 6.276
pull
Entries 53
Mean −186.2
Std Dev 211.9

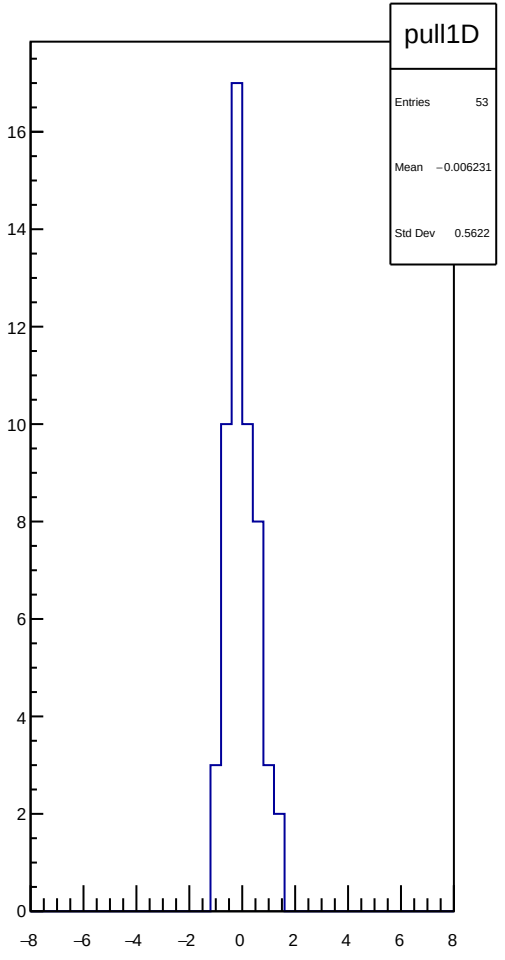

pull1D
Entries 53
Mean 0.01382
Std Dev 0.6222

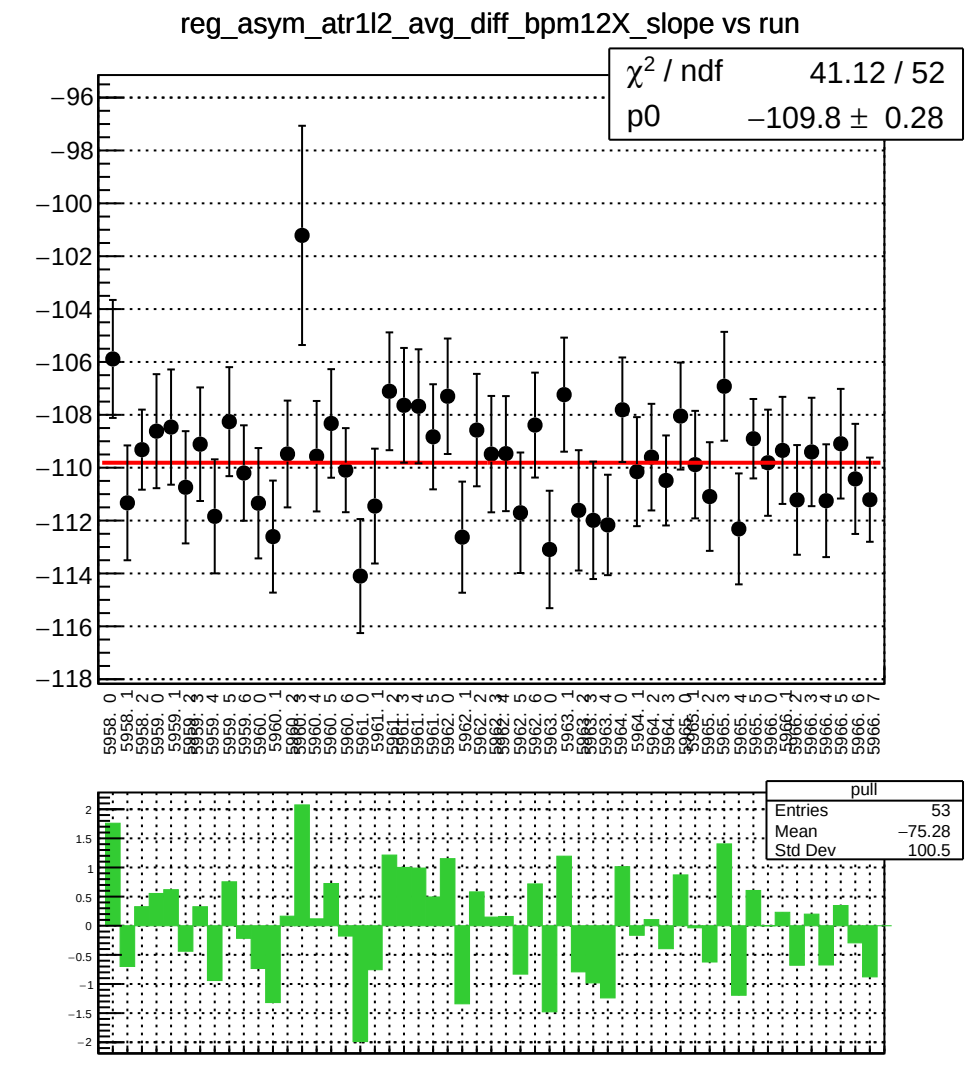

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.25 / 52
p0 4.759 ± 2.383
pull
Entries 53
Mean −65.71
Std Dev 103.7

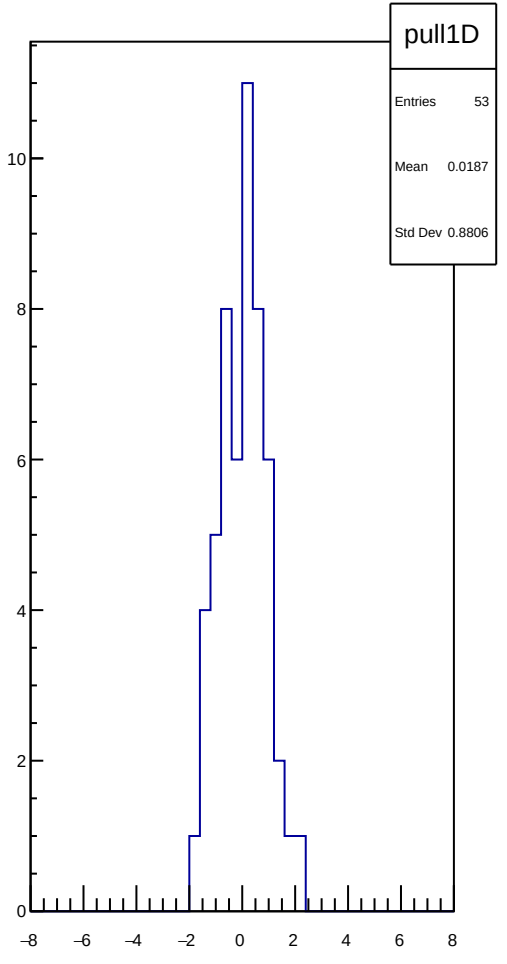

pull1D
Entries 53
Mean 0.008343
Std Dev 0.5537

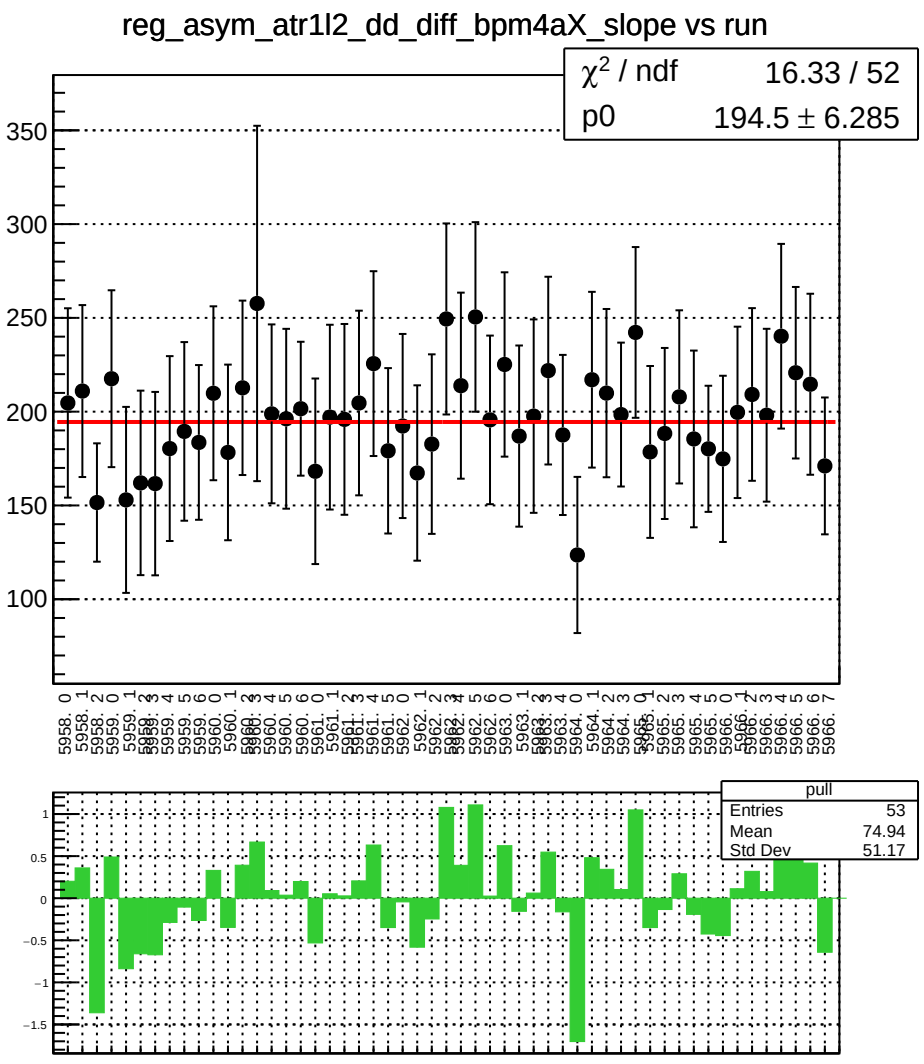

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.88 / 52
p0 268.8 ± 6.65
400
350
300
250
200
150
100
pull
Entries 53
Mean −197.4
Std Dev 222.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 53
Mean −0.0123
Std Dev 0.6123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

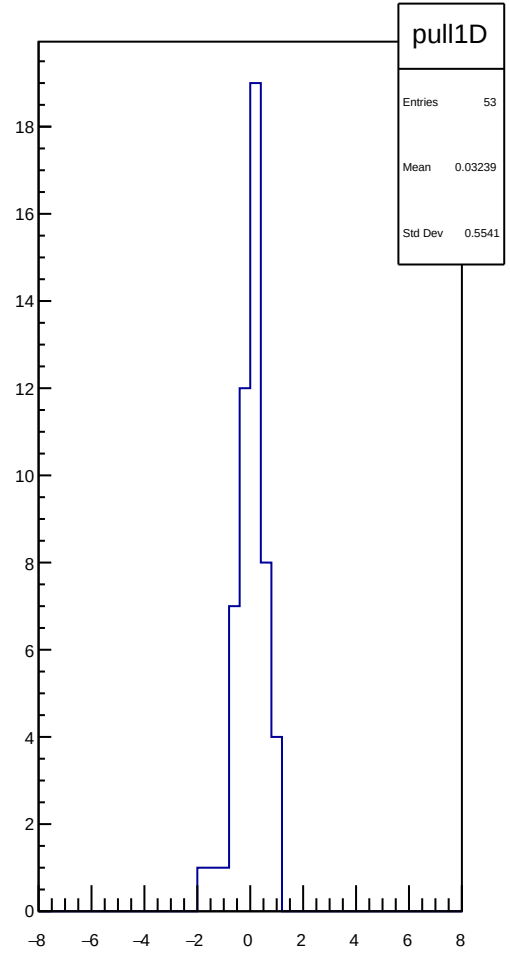

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.75 / 52
p0 41.91 ± 3.071
pull
Entries 53
Mean 7.716
Std Dev 60.9

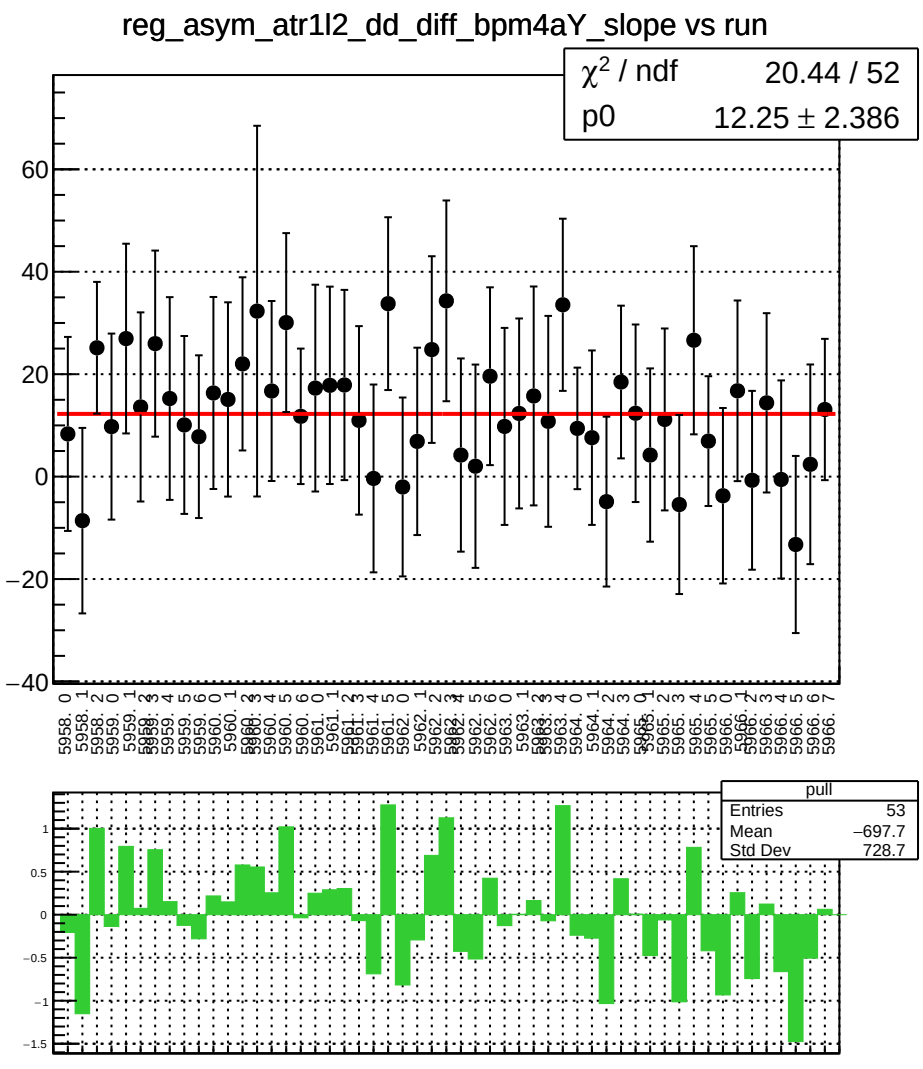

pull1D
Entries 53
Mean −0.006231
Std Dev 0.5622

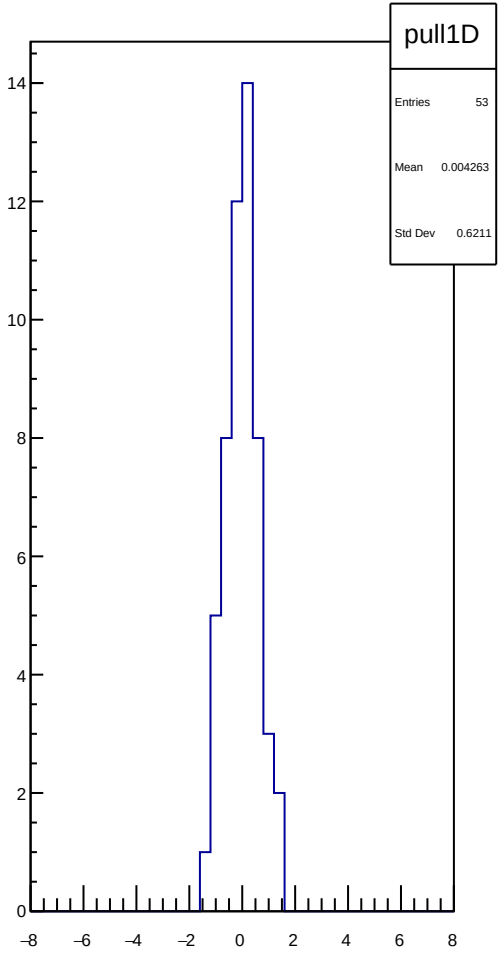

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 41.12 / 52
p0 −109.8 ± 0.28
pull
Entries 53
Mean −75.28
Std Dev 100.5

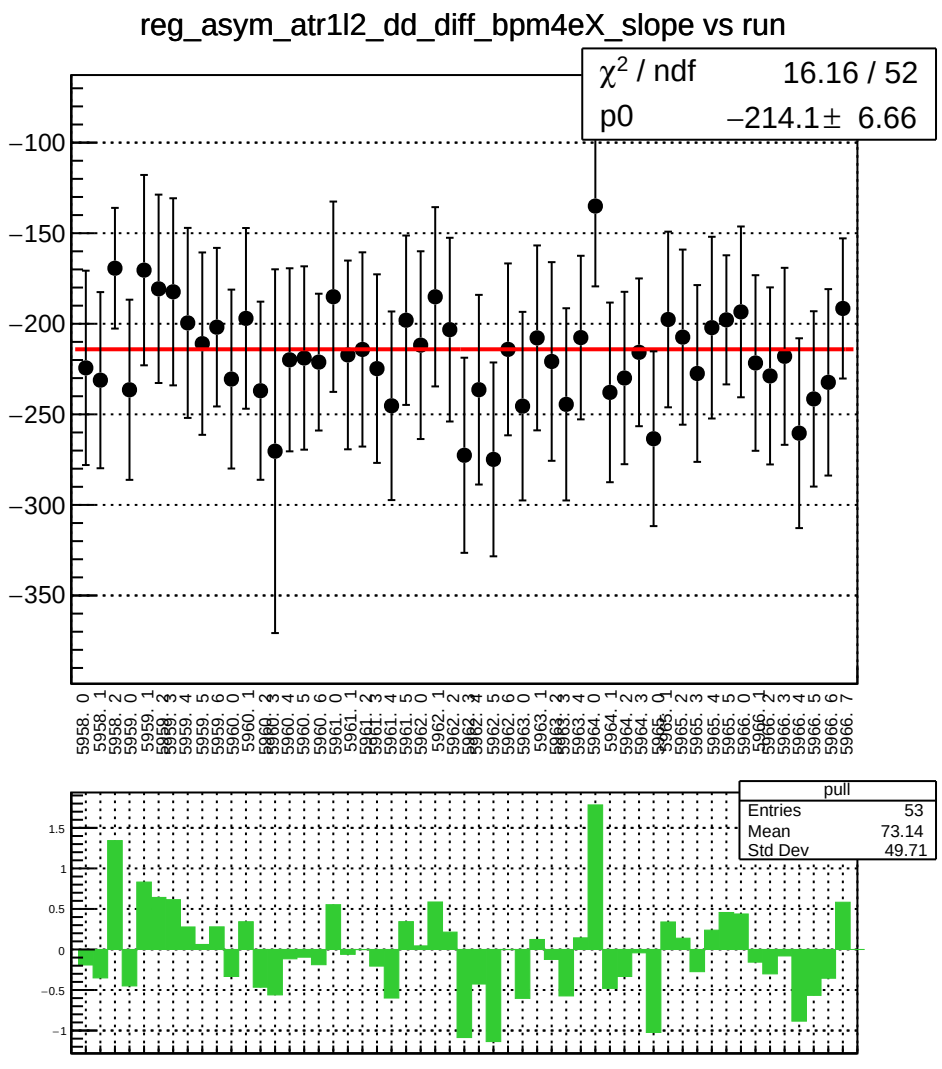

pull1D
Entries 53
Mean 0.0187
Std Dev 0.8806

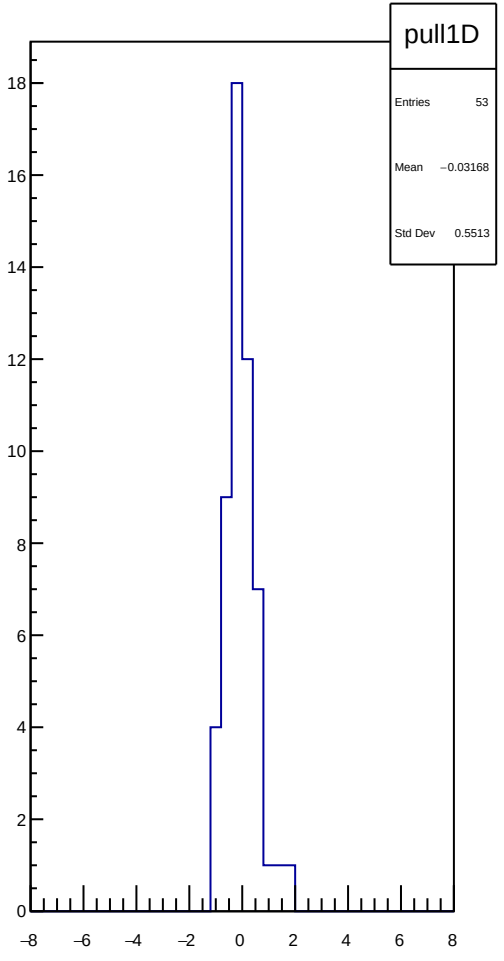

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 16.33 / 52
p0 194.5 ± 6.285
pull
Entries 53
Mean 74.94
Std Dev 51.17

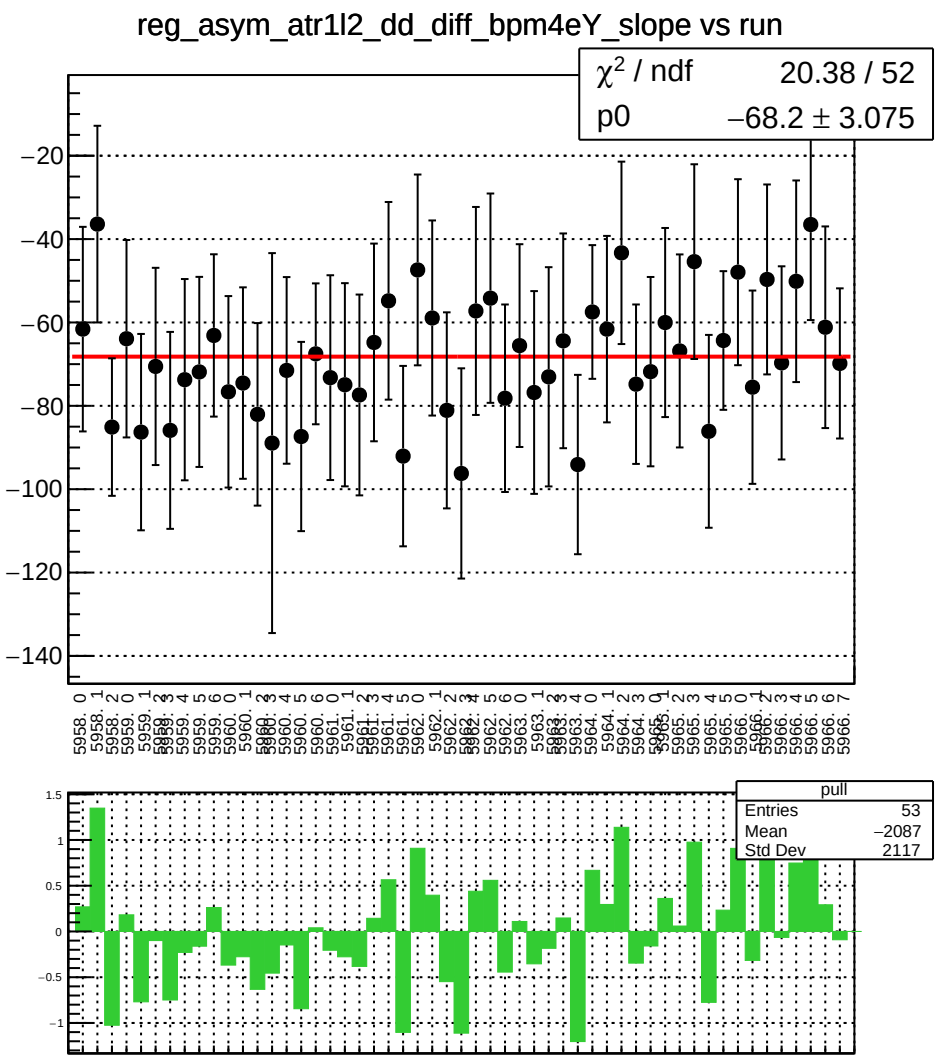

pull1D
Entries 53
Mean 0.03239
Std Dev 0.5541

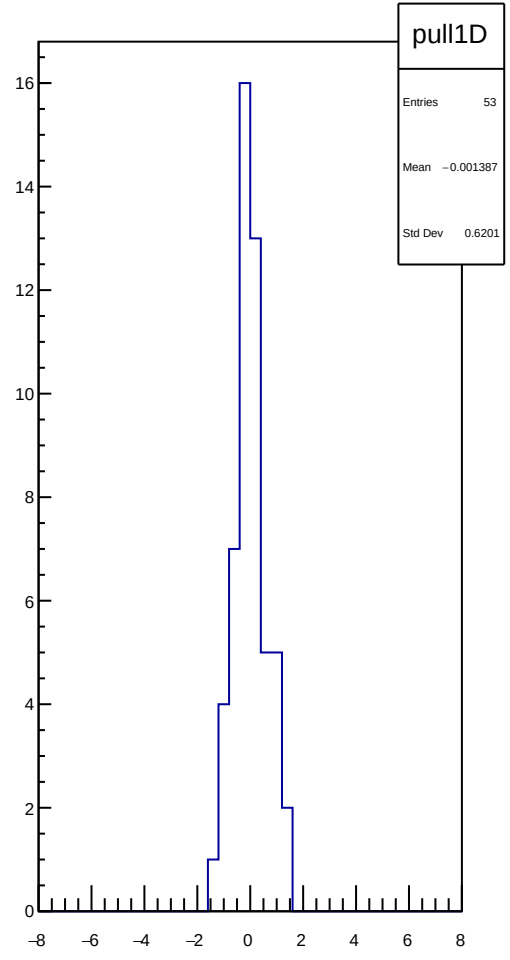

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.44 / 52
p0 12.25 ± 2.386
pull
Entries 53
Mean −697.7
Std Dev 728.7

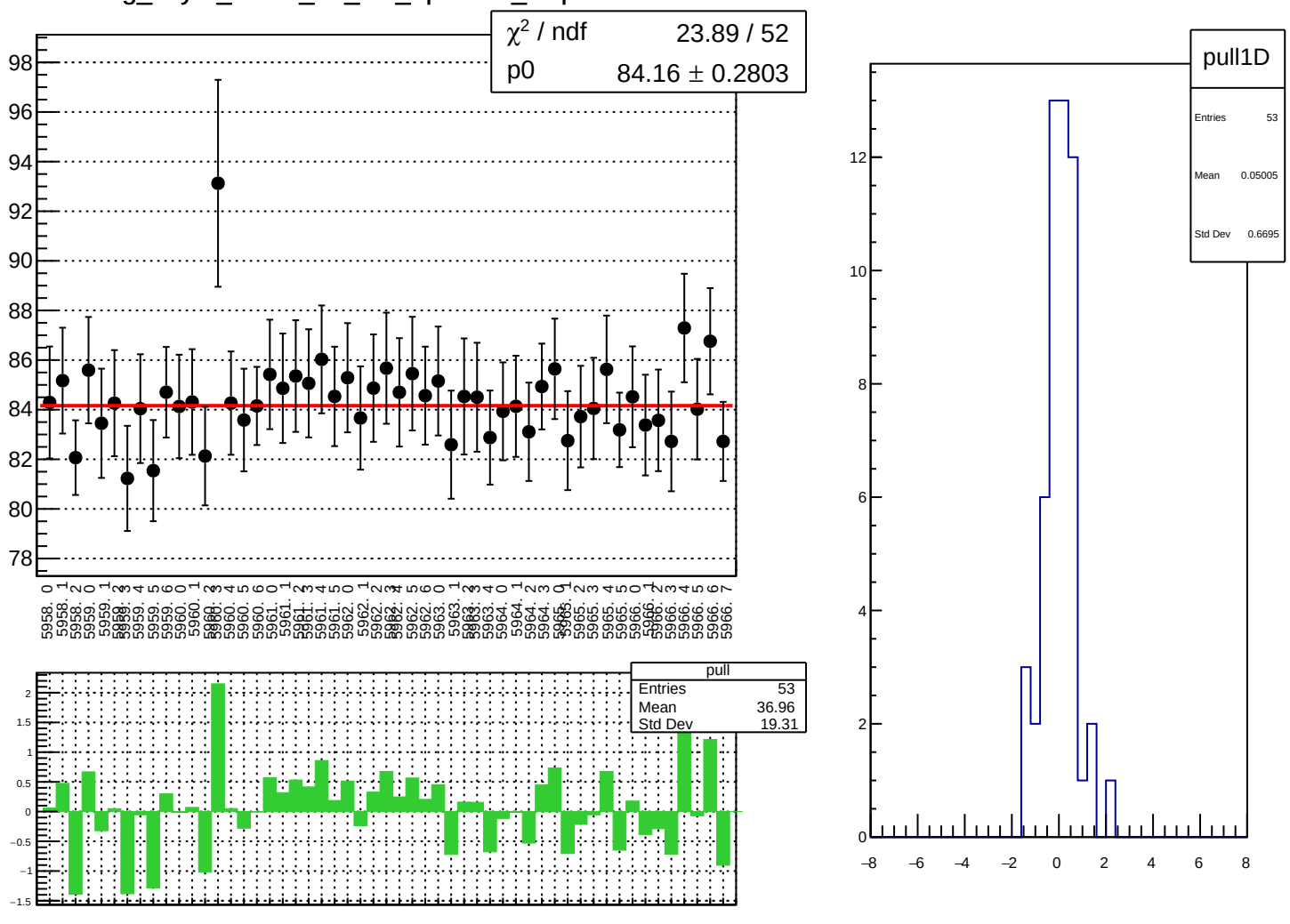

pull1D
Entries 53
Mean 0.004263
Std Dev 0.6211

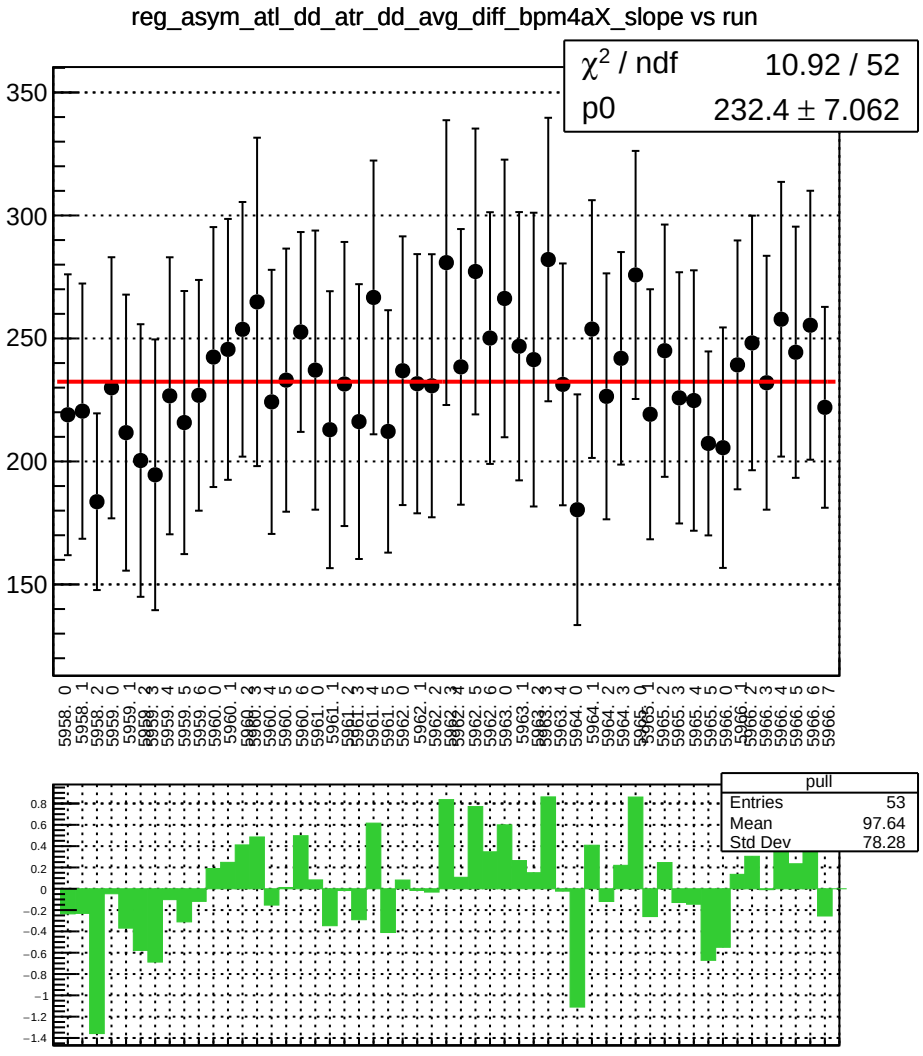

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.16 / 52
p0 −214.1± 6.66
pull
Entries 53
Mean 73.14
Std Dev 49.71

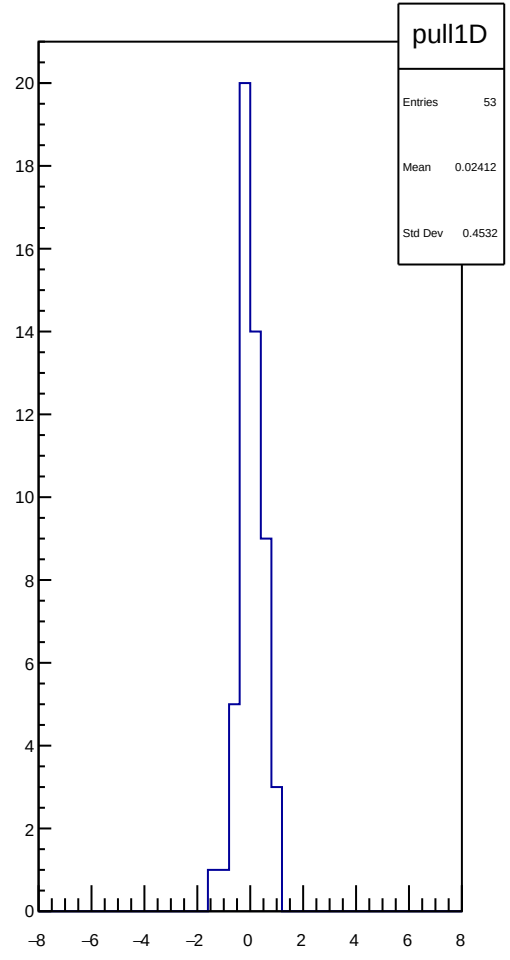

pull1D
Entries 53
Mean −0.03168
Std Dev 0.5513

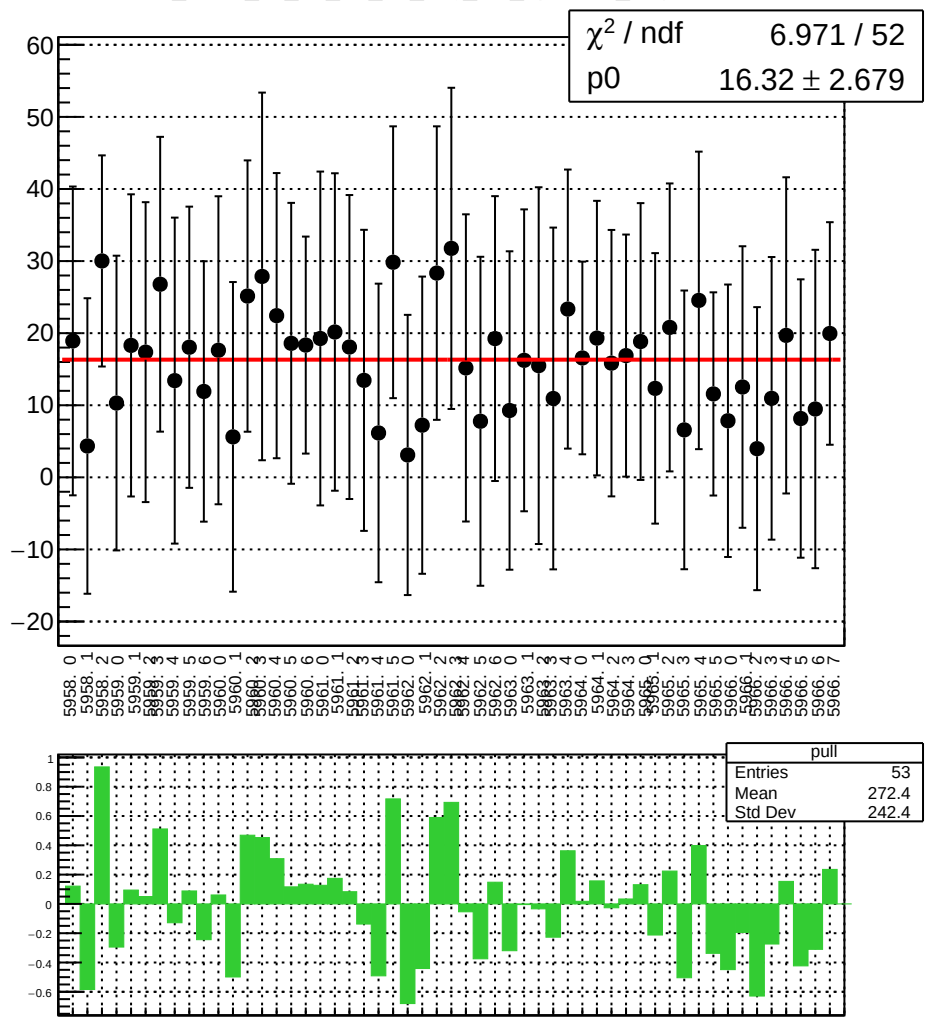

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.38 / 52
p0 −68.2 ± 3.075
pull
Entries 53
Mean −2087
Std Dev 2117

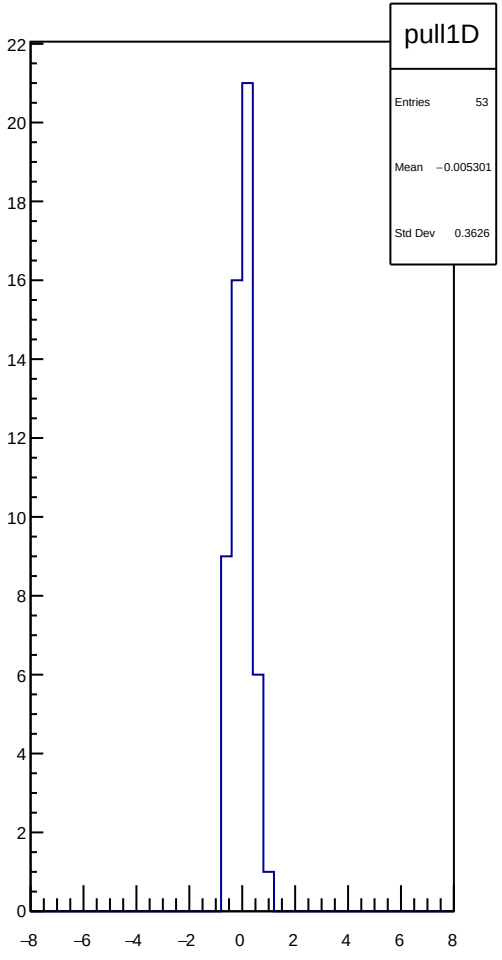

pull1D
Entries 53
Mean −0.001387
Std Dev 0.6201

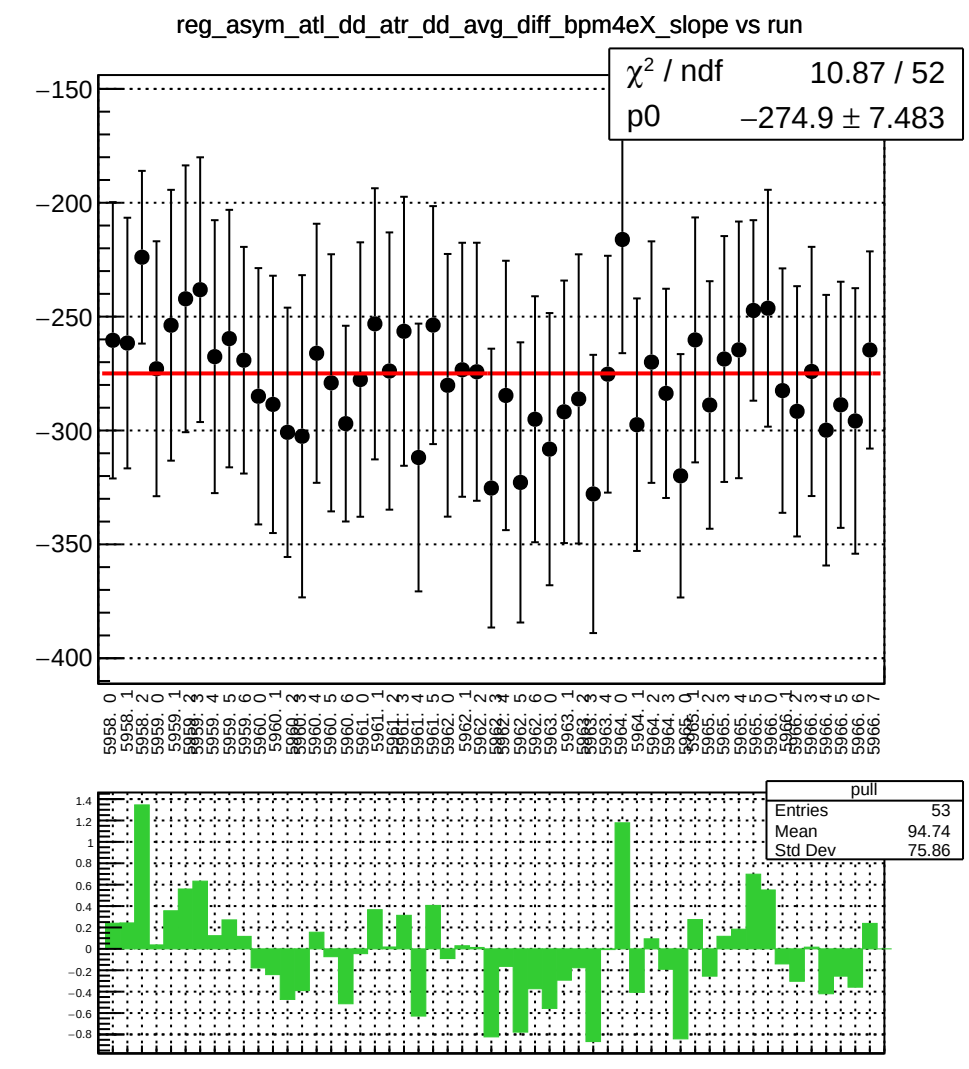

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.89 / 52
p0 84.16 ± 0.2803
pull
Entries 53
Mean 36.96
Std Dev 19.31
pull1D
Entries 53
Mean 0.05005
Std Dev 0.6695

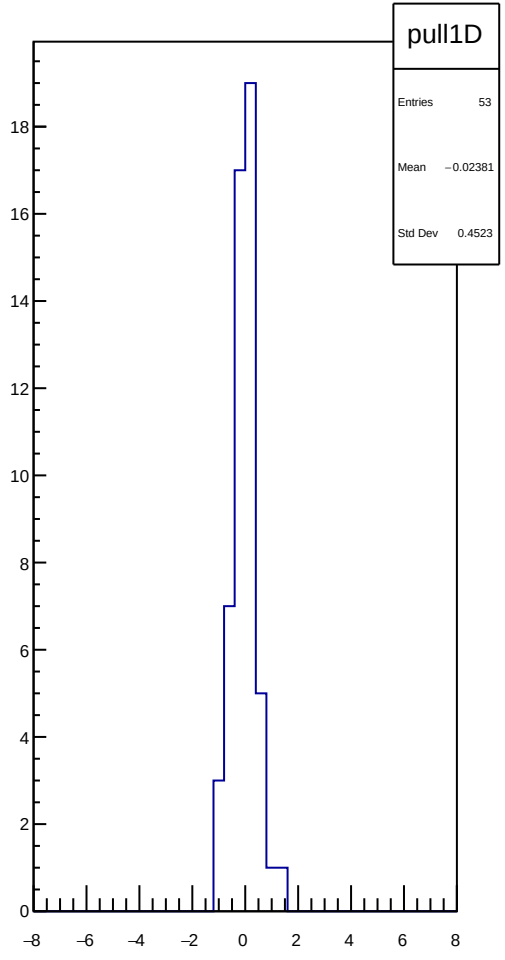

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.92 / 52
p0 232.4 ± 7.062
pull
Entries 53
Mean 97.64
Std Dev 78.28

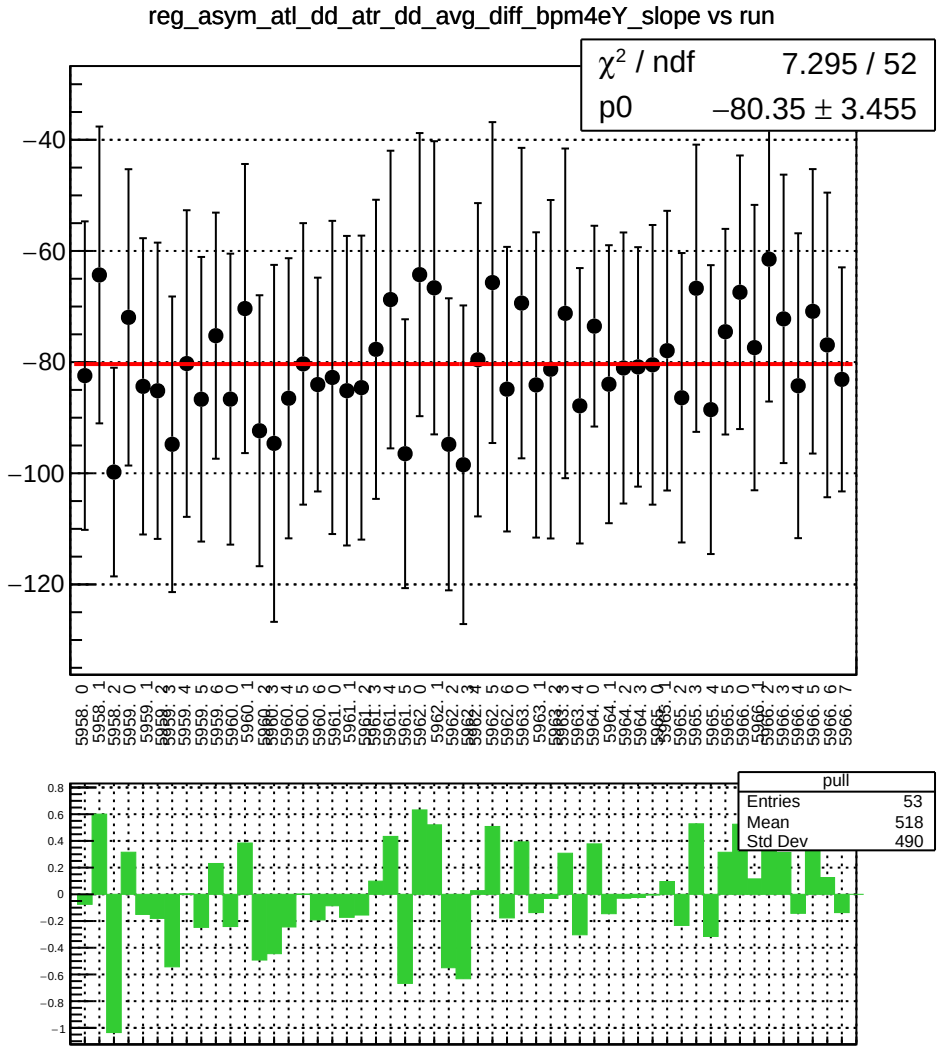

pull1D
Entries 53
Mean 0.02412
Std Dev 0.4532

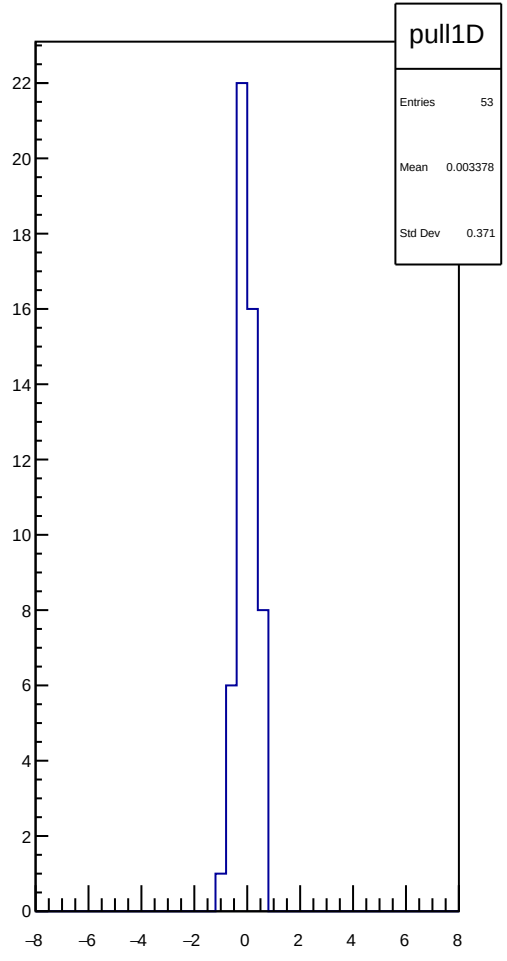

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.971 / 52
p0 16.32 ± 2.679
pull
Entries 53
Mean 272.4
Std Dev 242.4

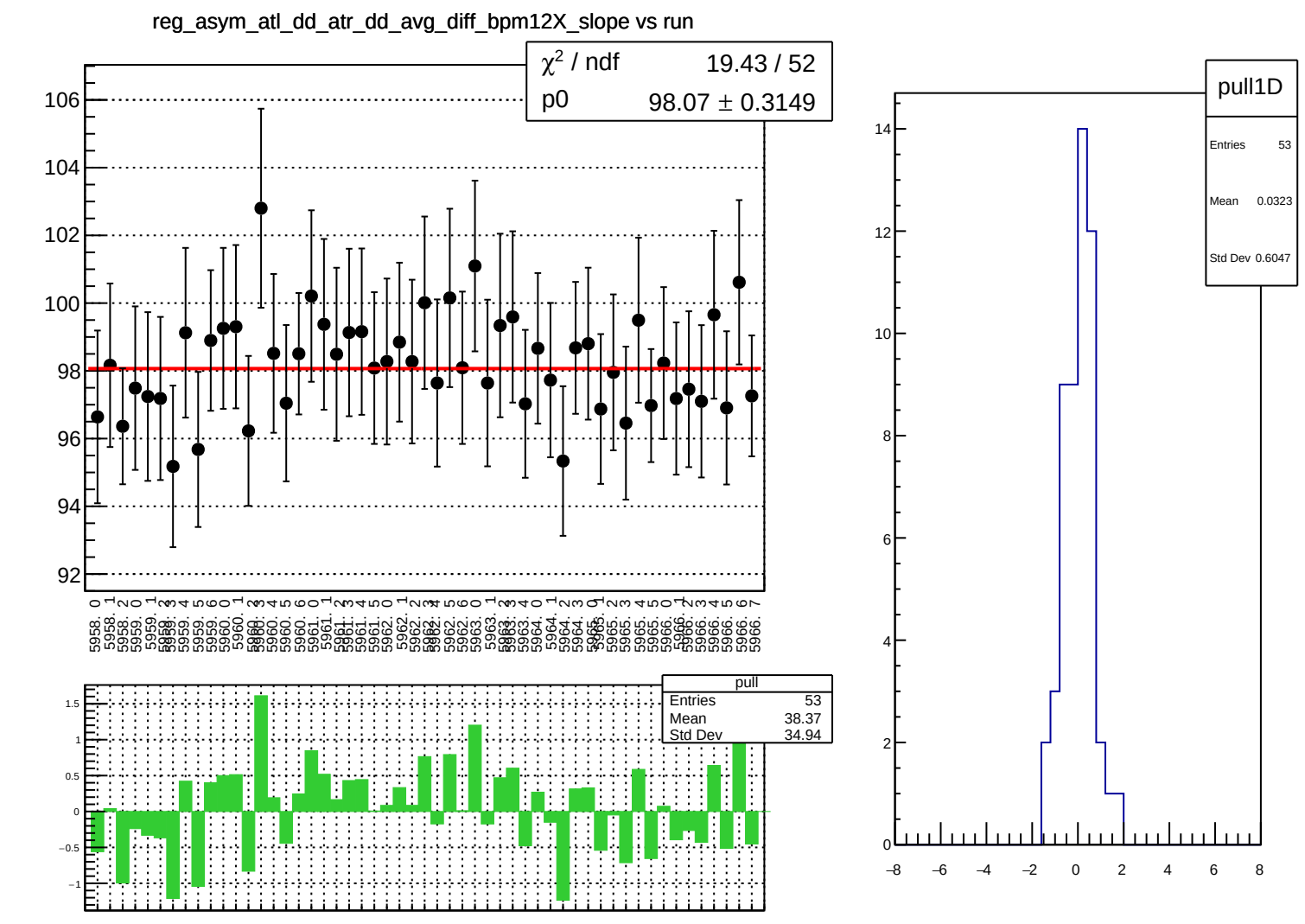

pull1D
Entries 53
Mean −0.005301
Std Dev 0.3626

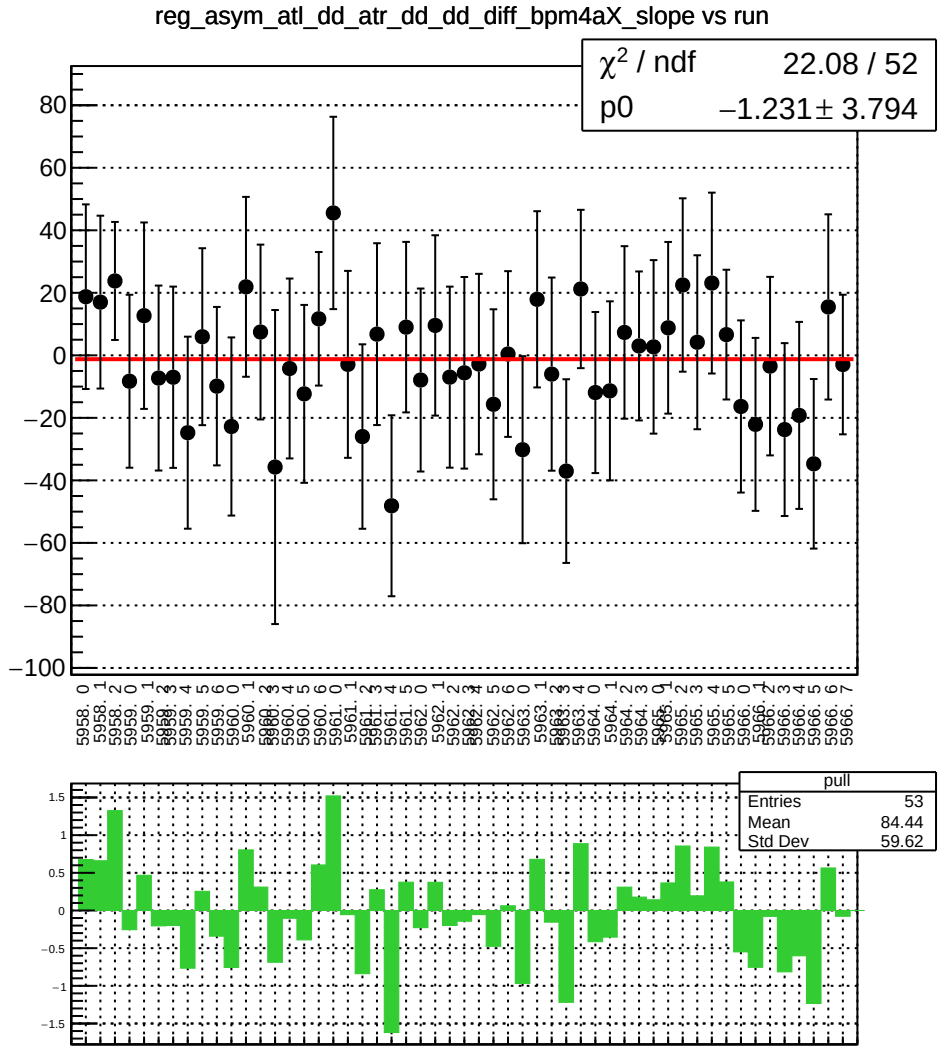

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.87 / 52
p0 −274.9 ± 7.483
pull
Entries 53
Mean 94.74
Std Dev 75.86

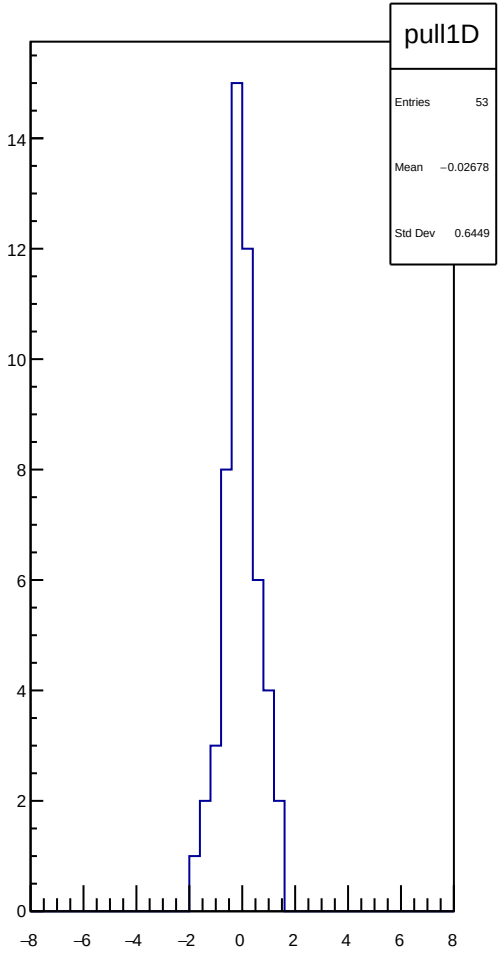

pull1D
Entries 53
Mean −0.02381
Std Dev 0.4523

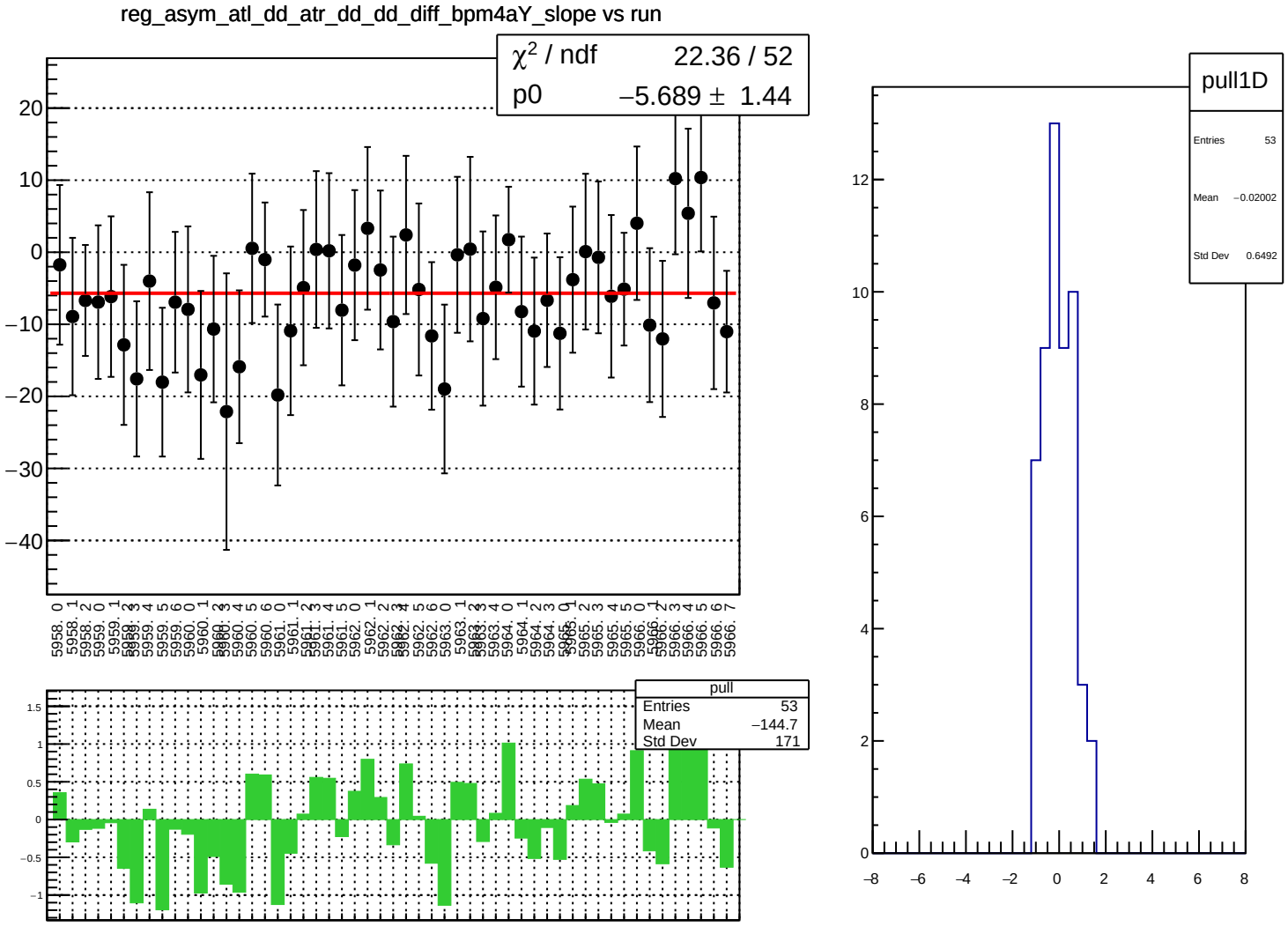

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.295 / 52
p0 −80.35 ± 3.455
pull
Entries 53
Mean 518
Std Dev 490

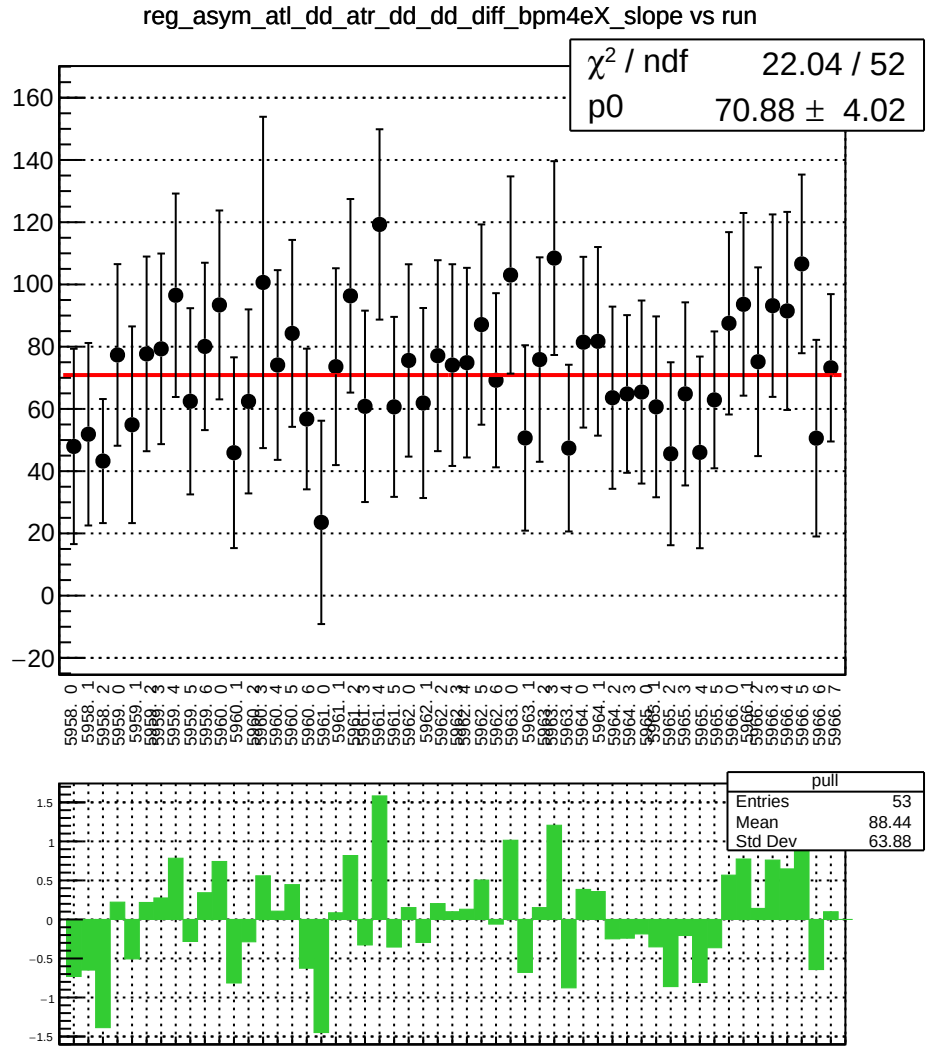

pull1D
Entries 53
Mean 0.003378
Std Dev 0.371

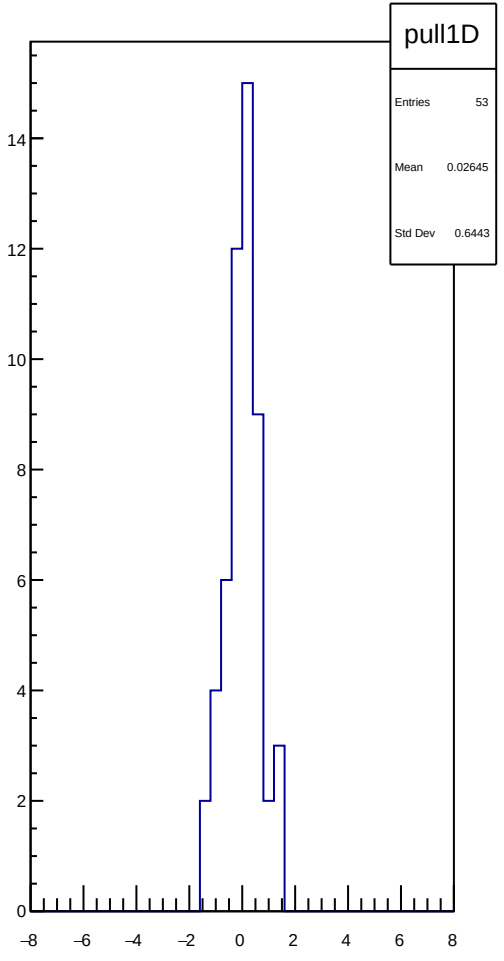

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 19.43 / 52
p0 98.07 ± 0.3149
pull
Entries 53
Mean 38.37
Std Dev 34.94
pull1D
Entries 53
Mean 0.0323
Std Dev 0.6047

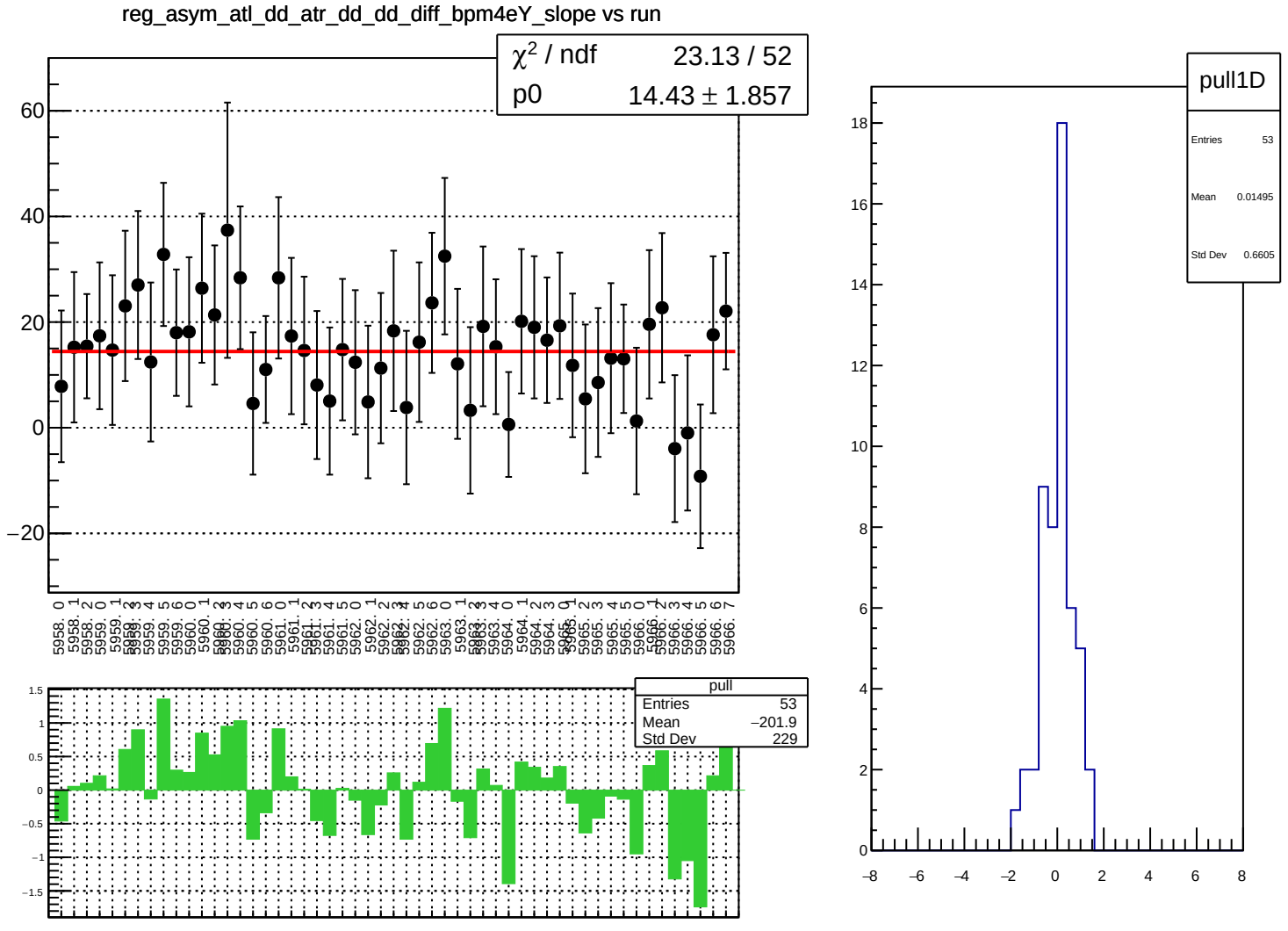

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.08 / 52
p0 −1.231 ± 3.794
pull
Entries 53
Mean 84.44
Std Dev 59.62

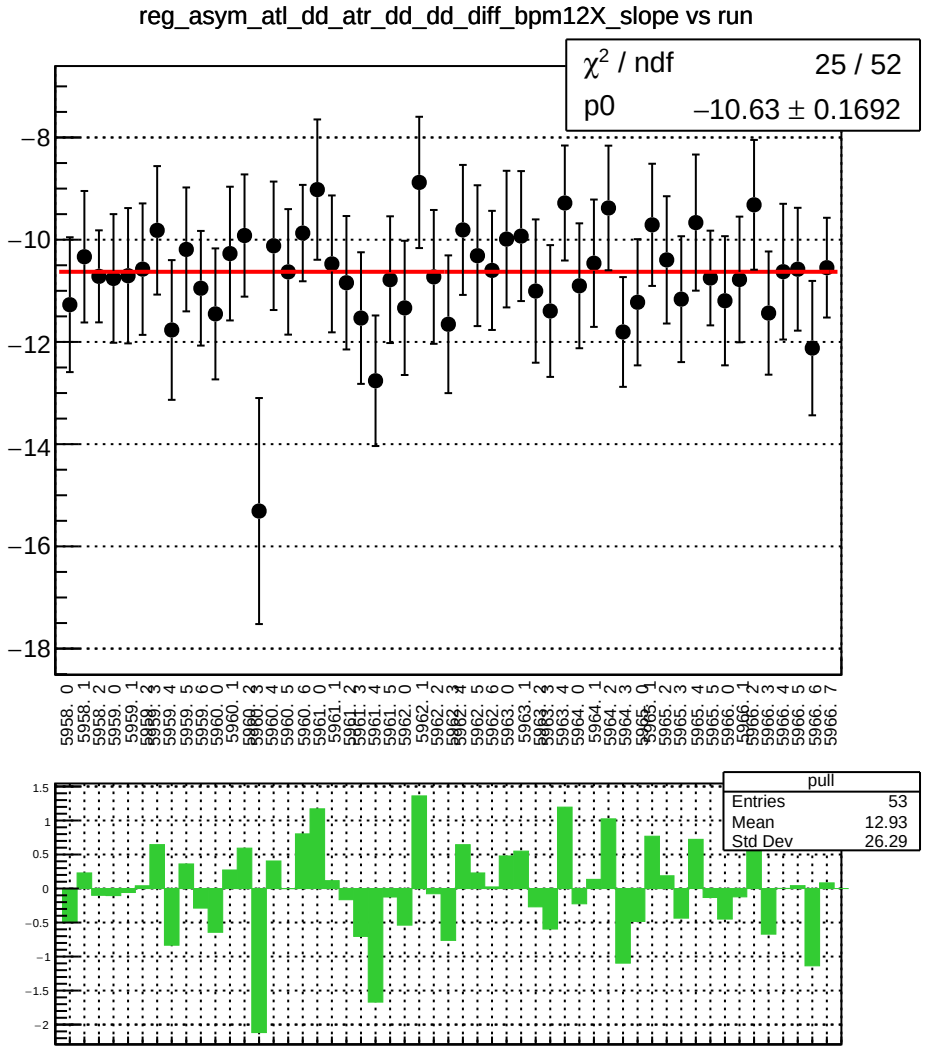

pull1D
Entries 53
Mean −0.02678
Std Dev 0.6449

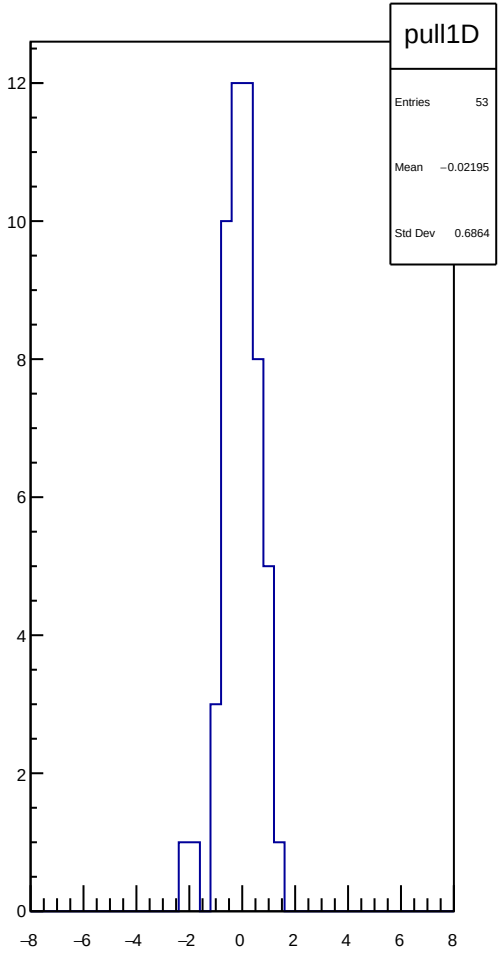

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.36 / 52
p0 −5.689 ± 1.44
pull
Entries 53
Mean −144.7
Std Dev 171
pull1D
Entries 53
Mean −0.02002
Std Dev 0.6492

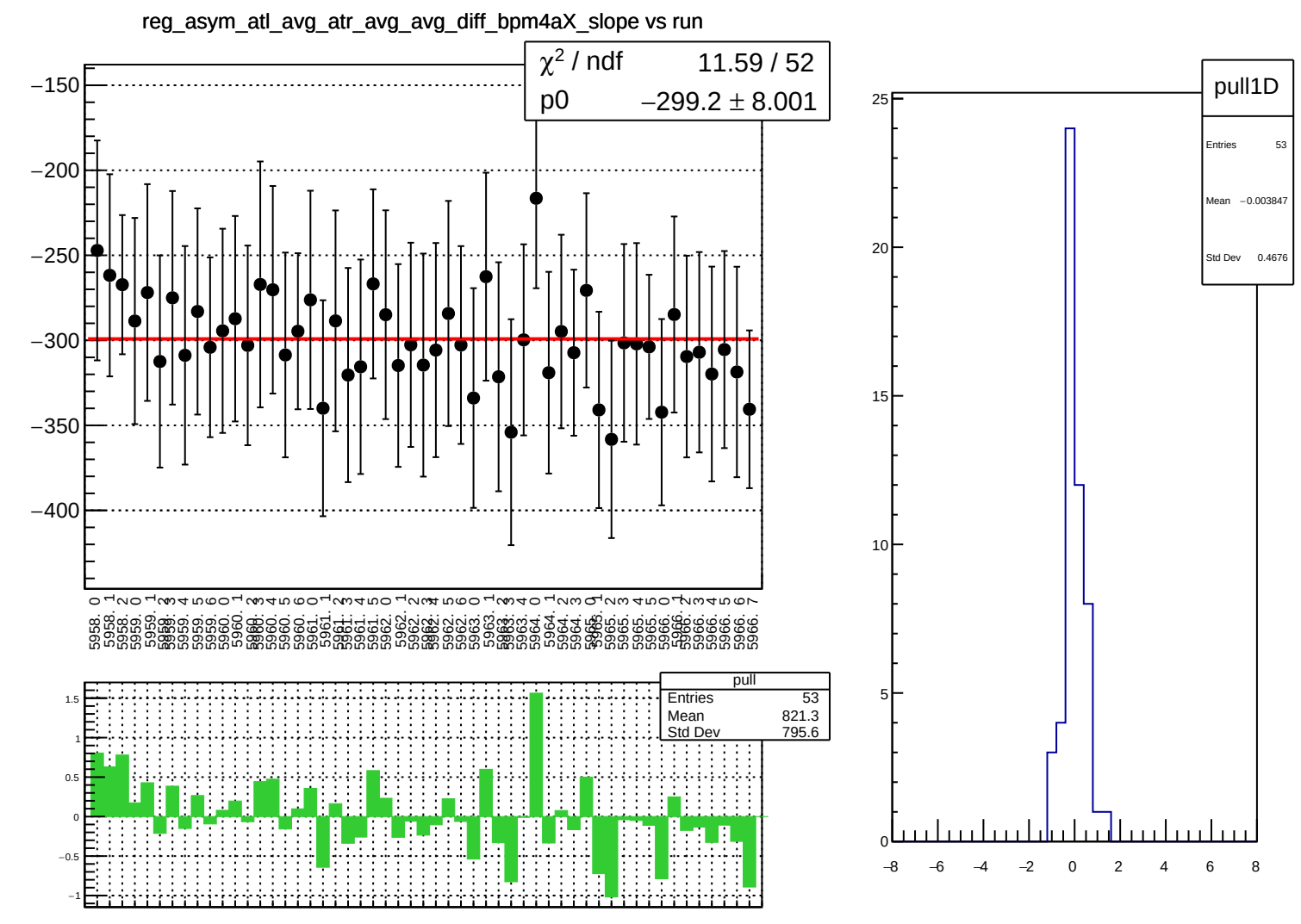

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.04 / 52
p0 70.88 ± 4.02
pull
Entries 53
Mean 88.44
Std Dev 63.88

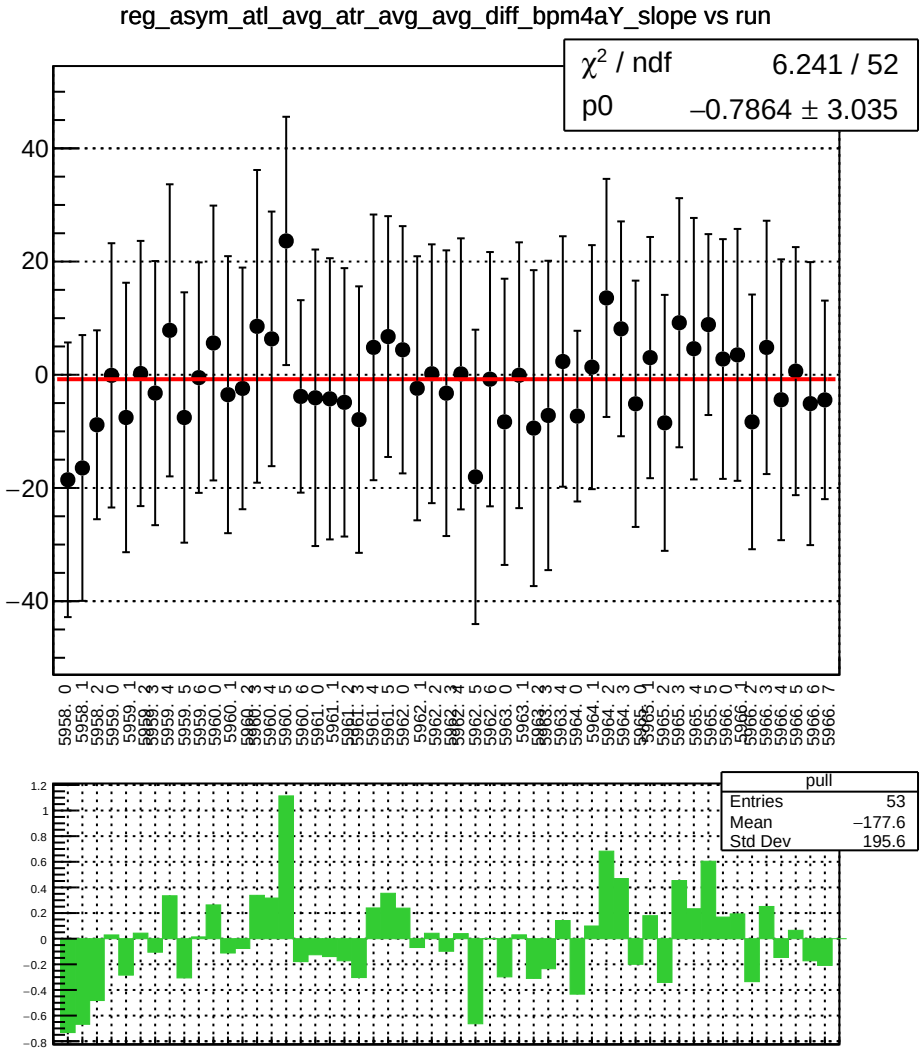

pull1D
Entries 53
Mean 0.02645
Std Dev 0.6443

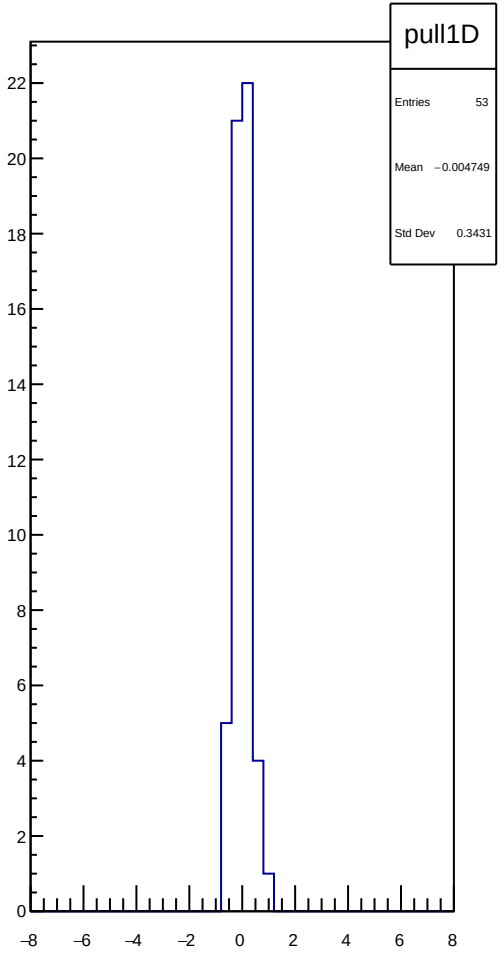

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.13 / 52
p0 14.43 ± 1.857
pull
Entries 53
Mean −201.9
Std Dev 229
pull1D
Entries 53
Mean 0.01495
Std Dev 0.6605

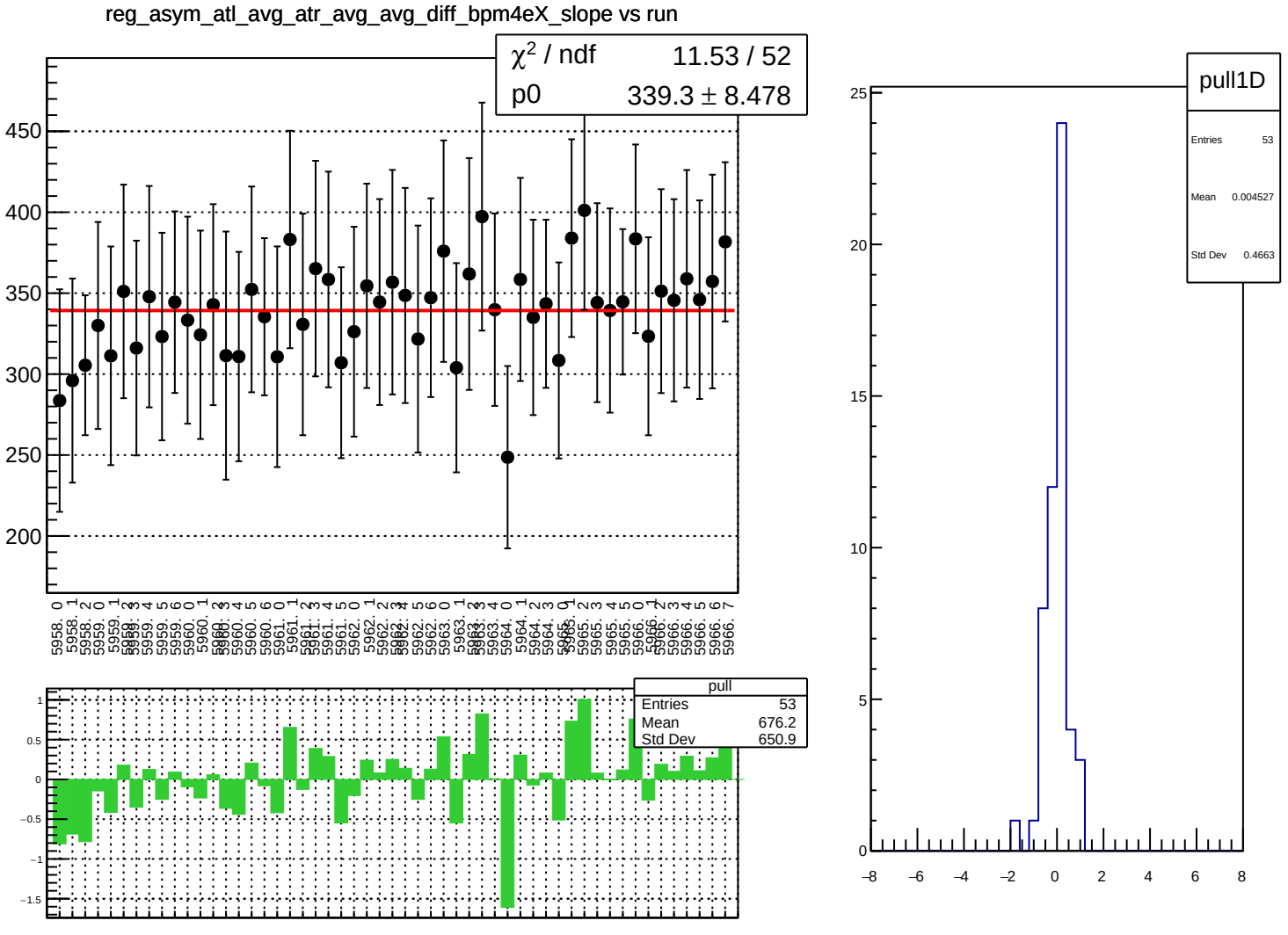

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 25 / 52
p0 −10.63 ± 0.1692
pull
Entries 53
Mean 12.93
Std Dev 26.29

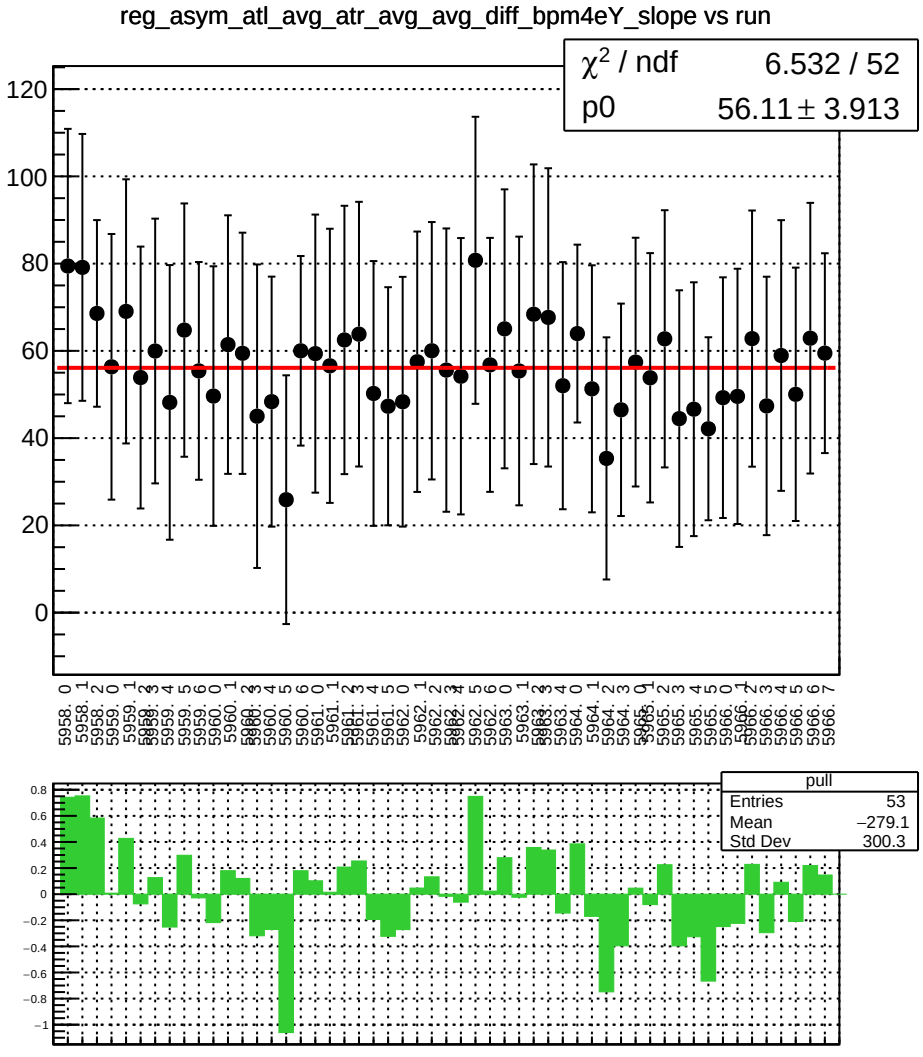

pull1D
Entries 53
Mean −0.02195
Std Dev 0.6864

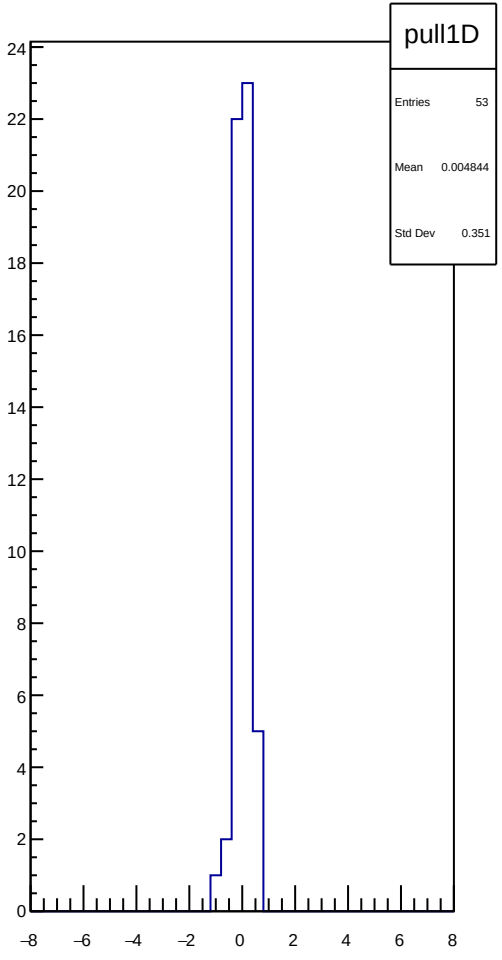

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.59 / 52
p0 −299.2 ± 8.001
pull
Entries 53
Mean 821.3
Std Dev 795.6
pull1D
Entries 53
Mean −0.003847
Std Dev 0.4676

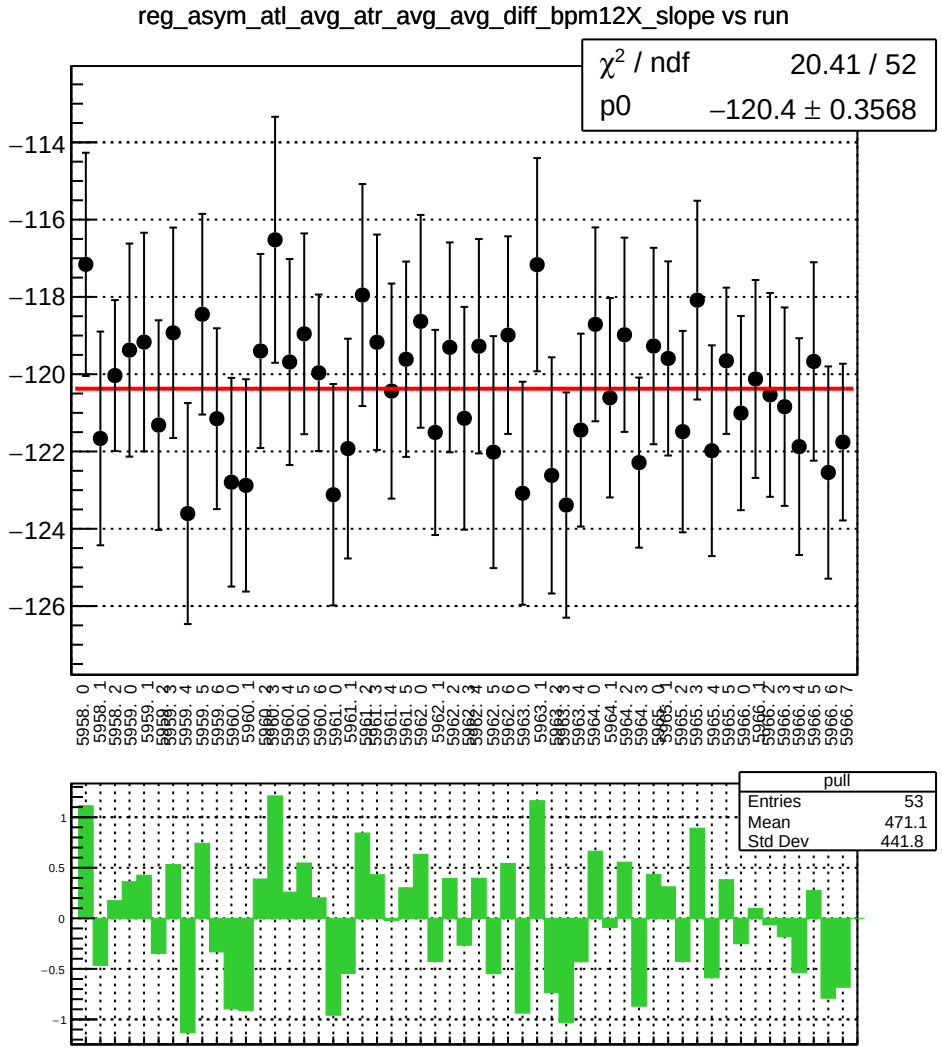

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.241 / 52
p0 −0.7864 ± 3.035
pull
Entries 53
Mean −177.6
Std Dev 195.6

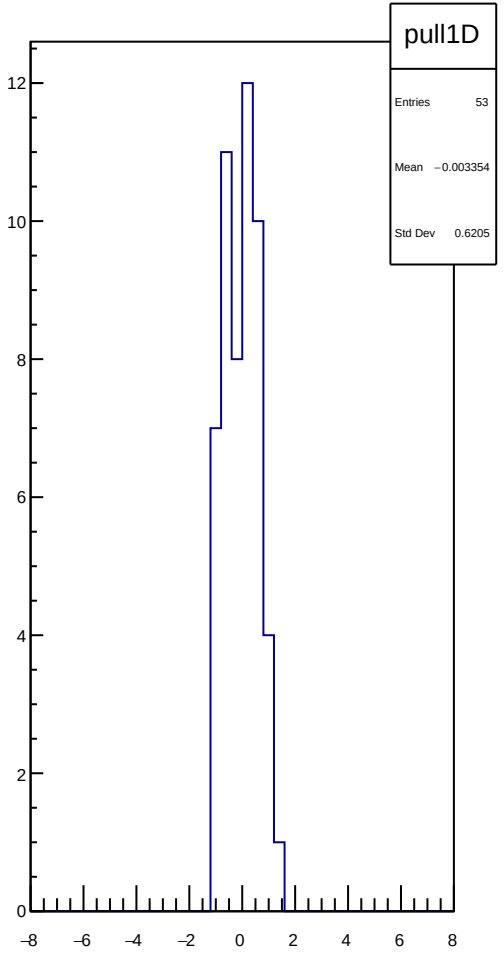

pull1D
Entries 53
Mean −0.004749
Std Dev 0.3431

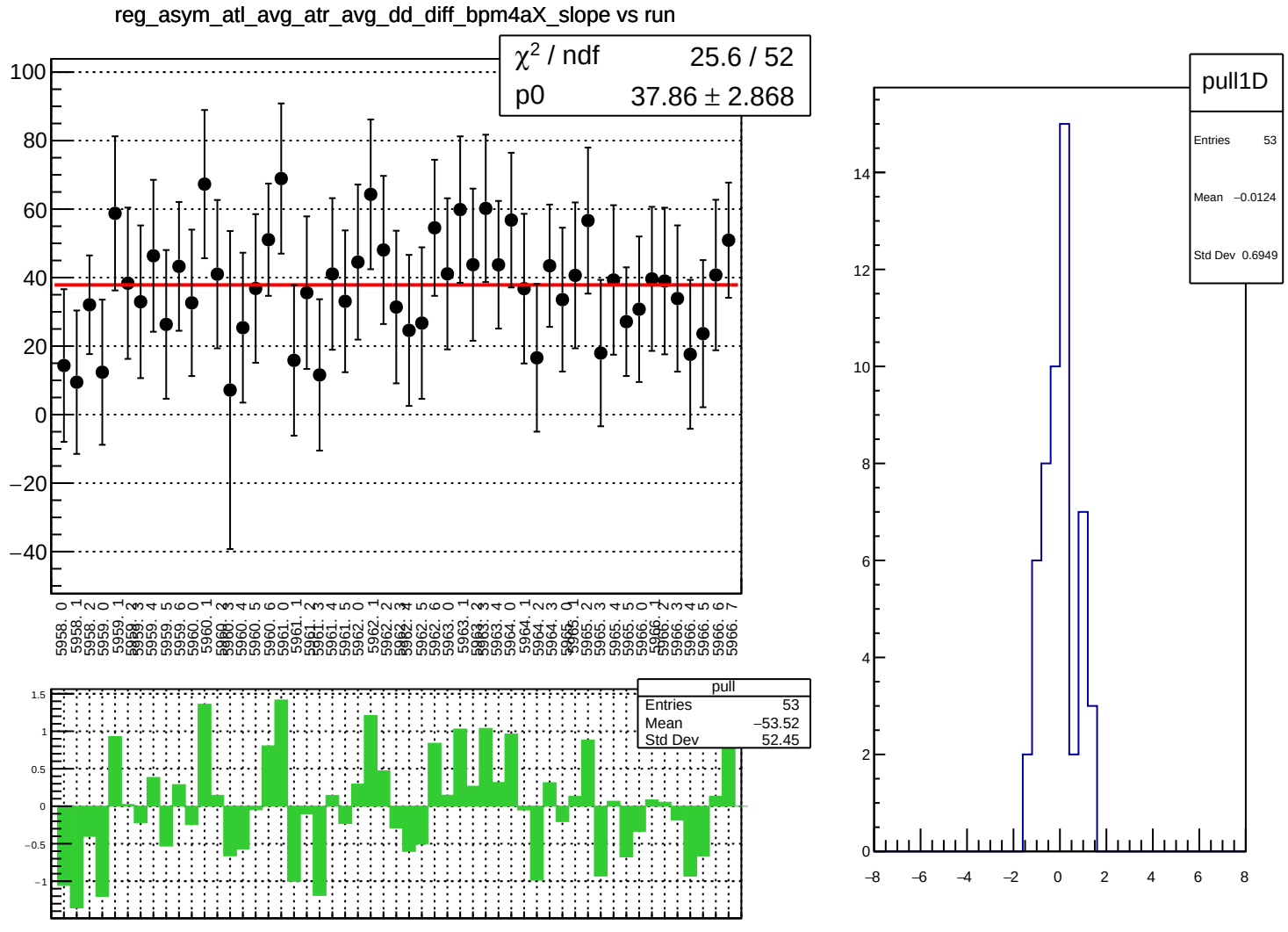

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 11.53 / 52
p0 339.3 ± 8.478
pull
Entries 53
Mean 676.2
Std Dev 650.9
pull1D
Entries 53
Mean 0.004527
Std Dev 0.4663

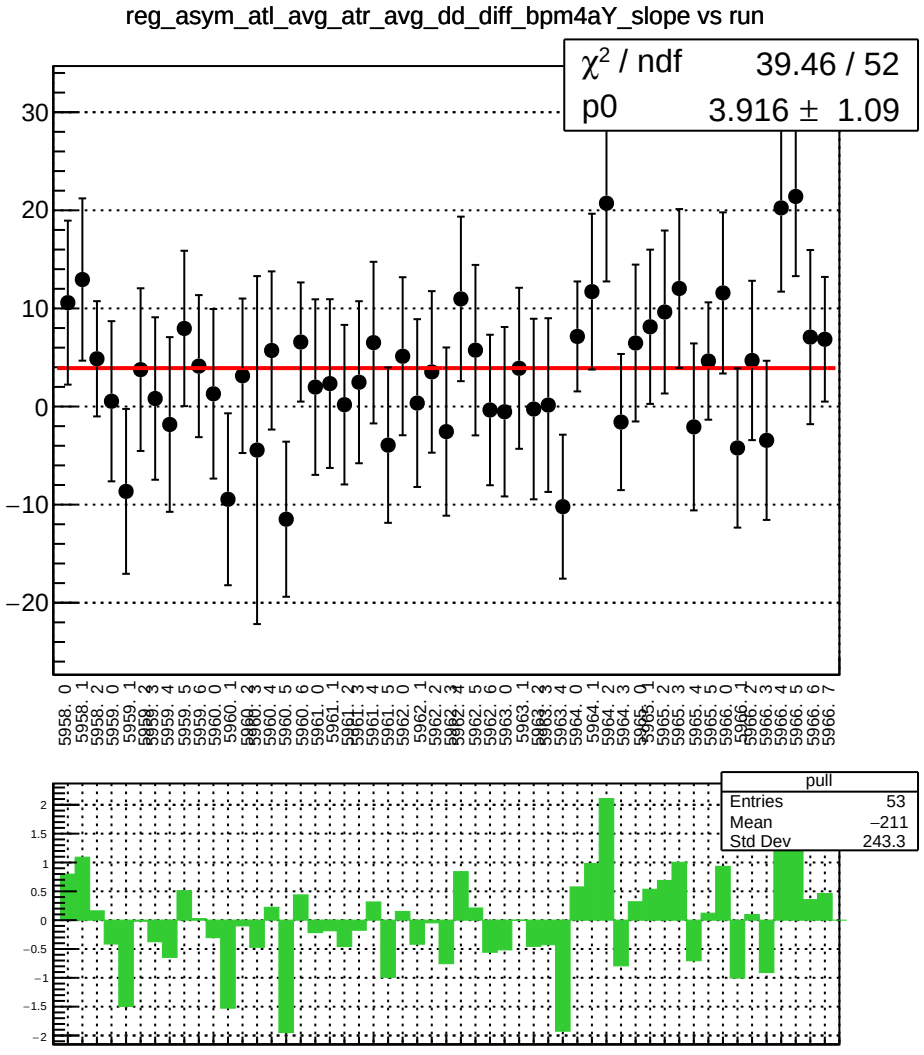

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.532 / 52
p0 56.11 ± 3.913
pull
Entries 53
Mean −279.1
Std Dev 300.3

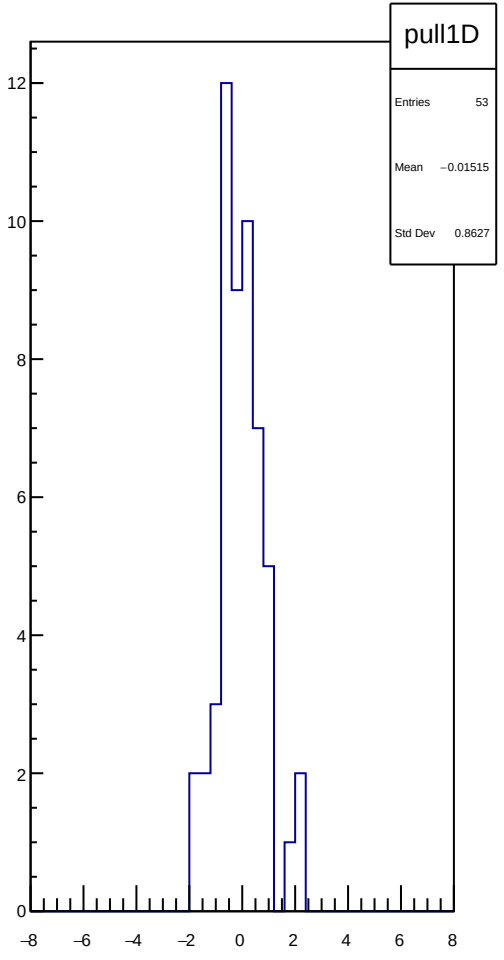

pull1D
Entries 53
Mean 0.004844
Std Dev 0.351

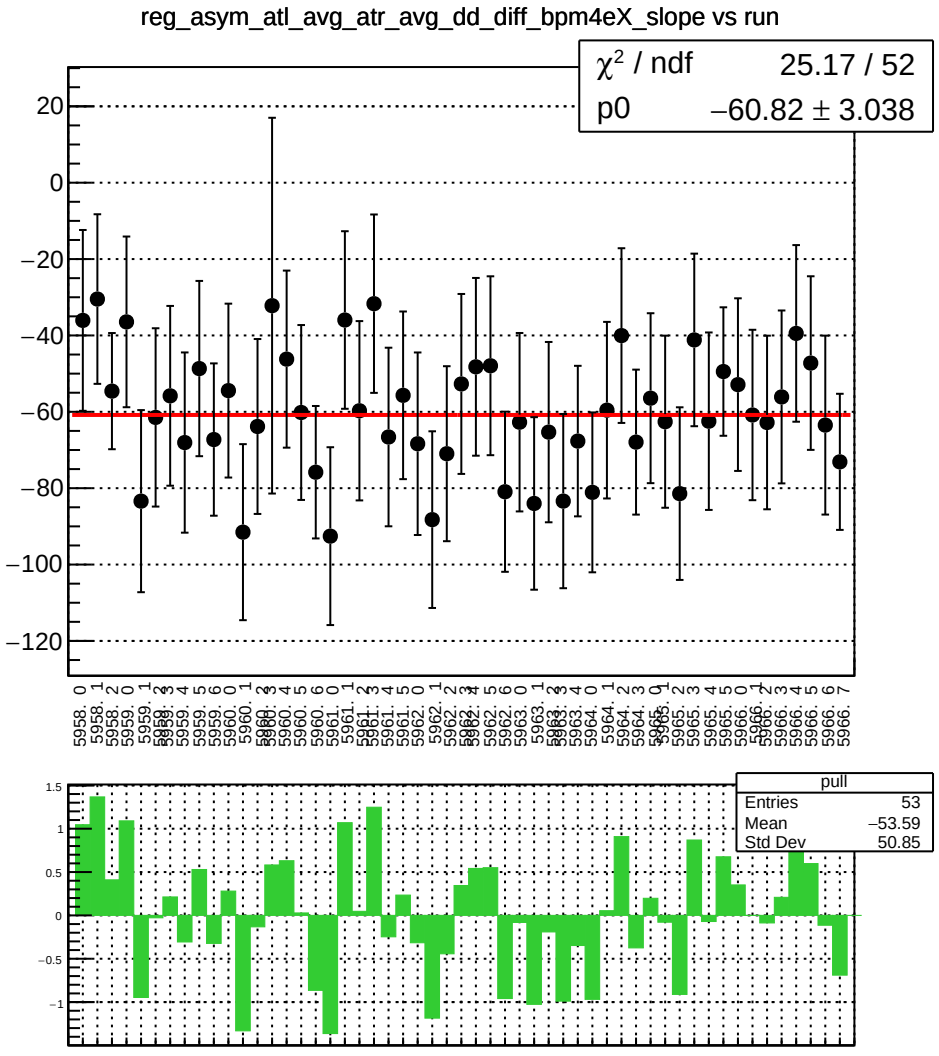

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 20.41 / 52
p0 −120.4 ± 0.3568
pull
Entries 53
Mean 471.1
Std Dev 441.8

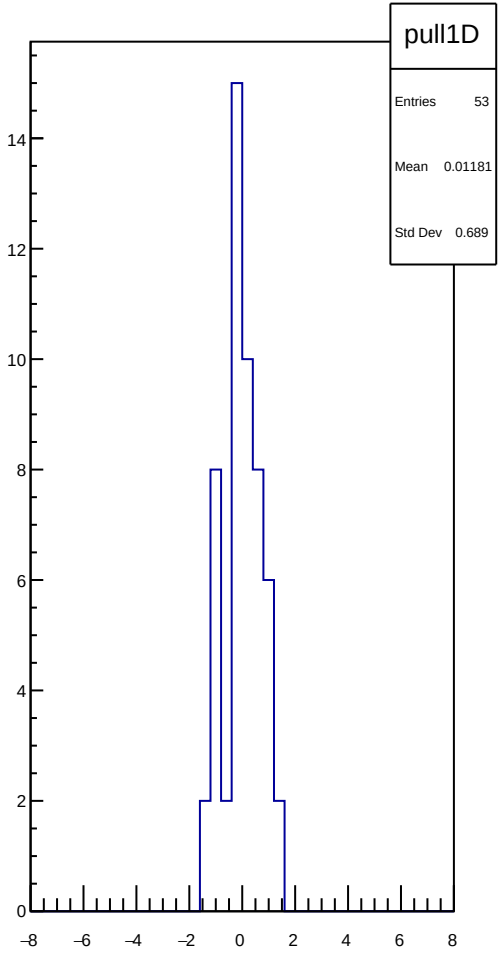

pull1D
Entries 53
Mean −0.003354
Std Dev 0.6205

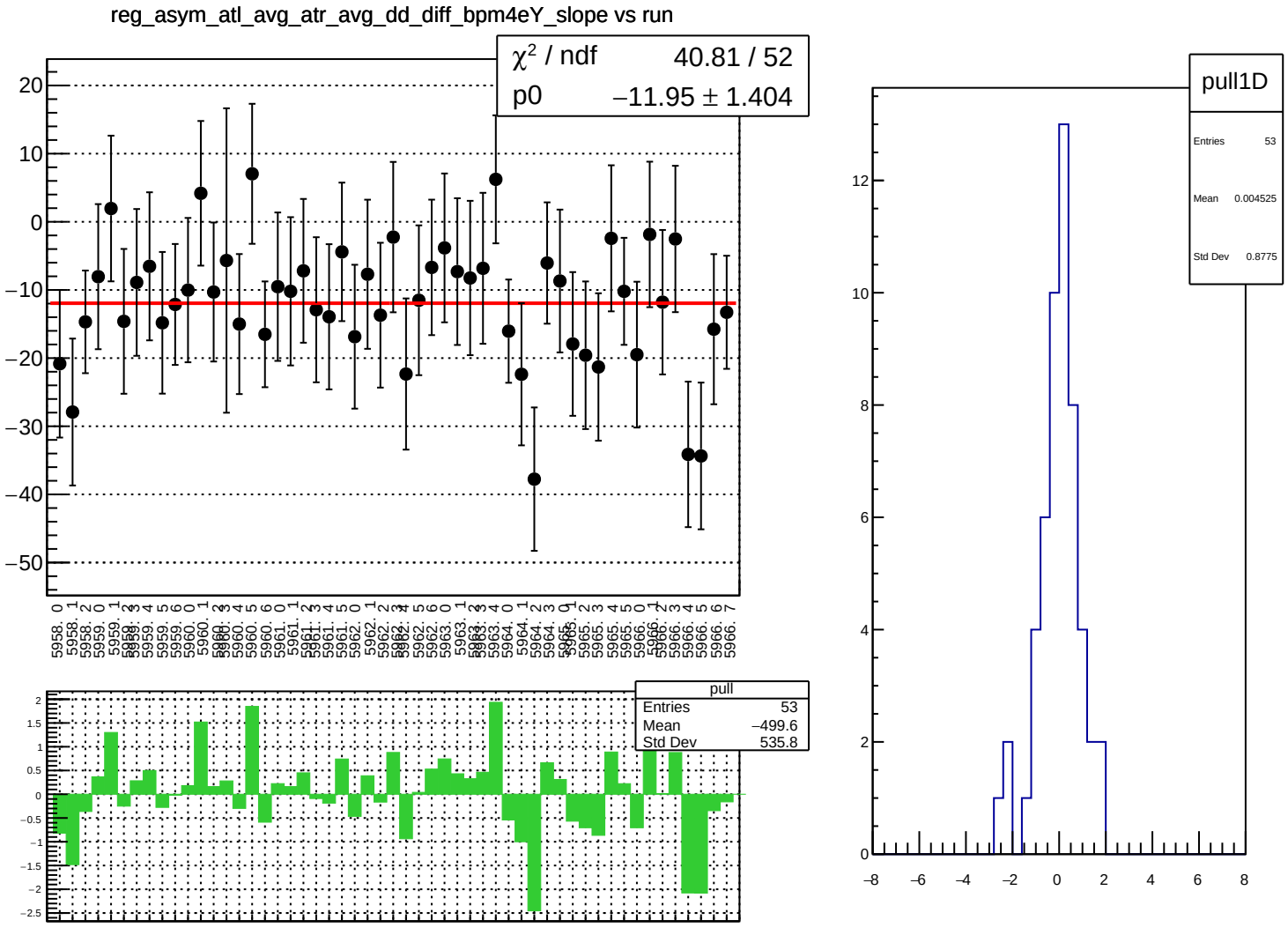

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.6 / 52
p0 37.86 ± 2.868
pull
Entries 53
Mean −53.52
Std Dev 52.45
pull1D
Entries 53
Mean −0.0124
Std Dev 0.6949

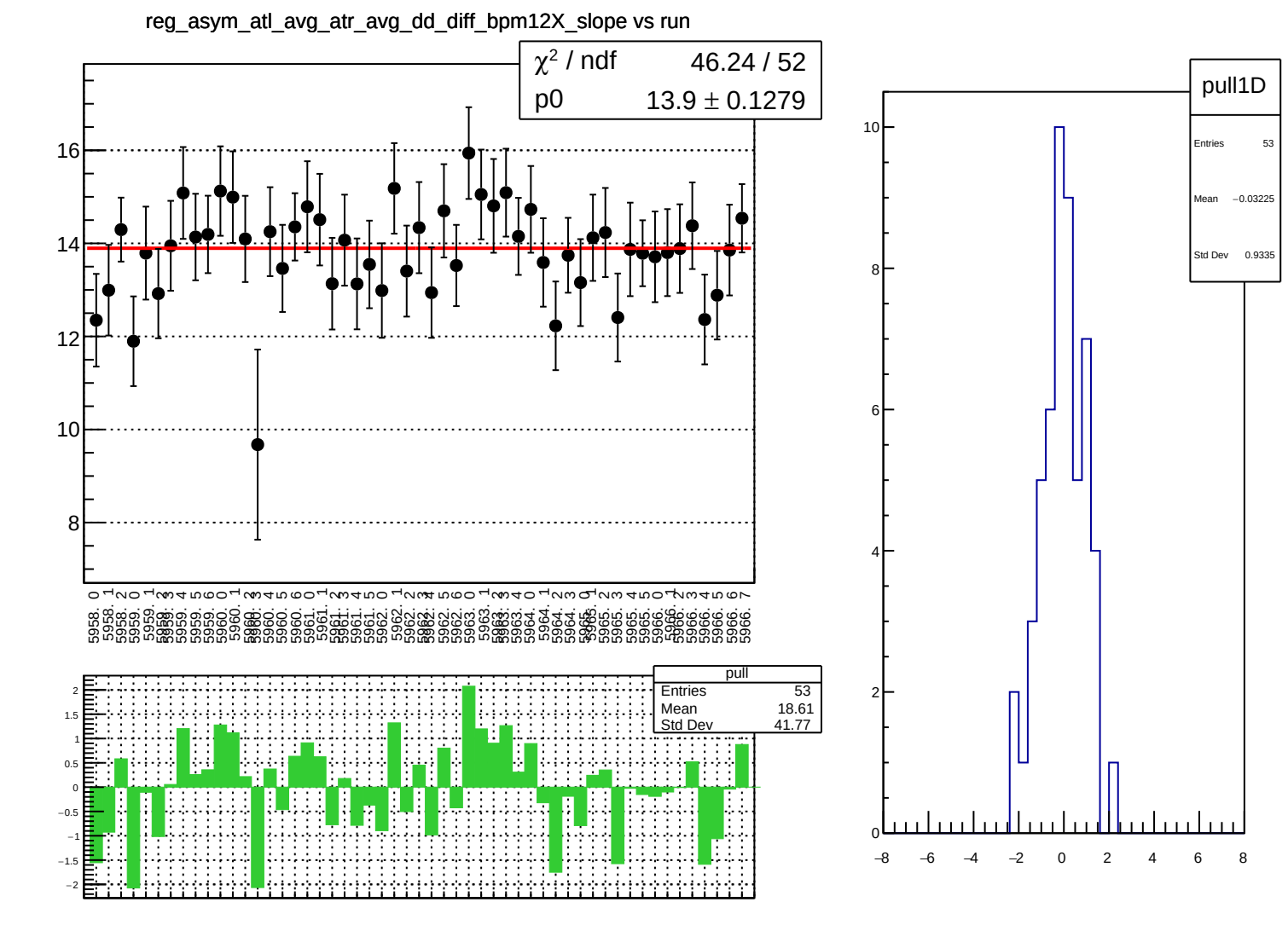

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.46 / 52
p0 3.916 ± 1.09
pull
Entries 53
Mean −211
Std Dev 243.3

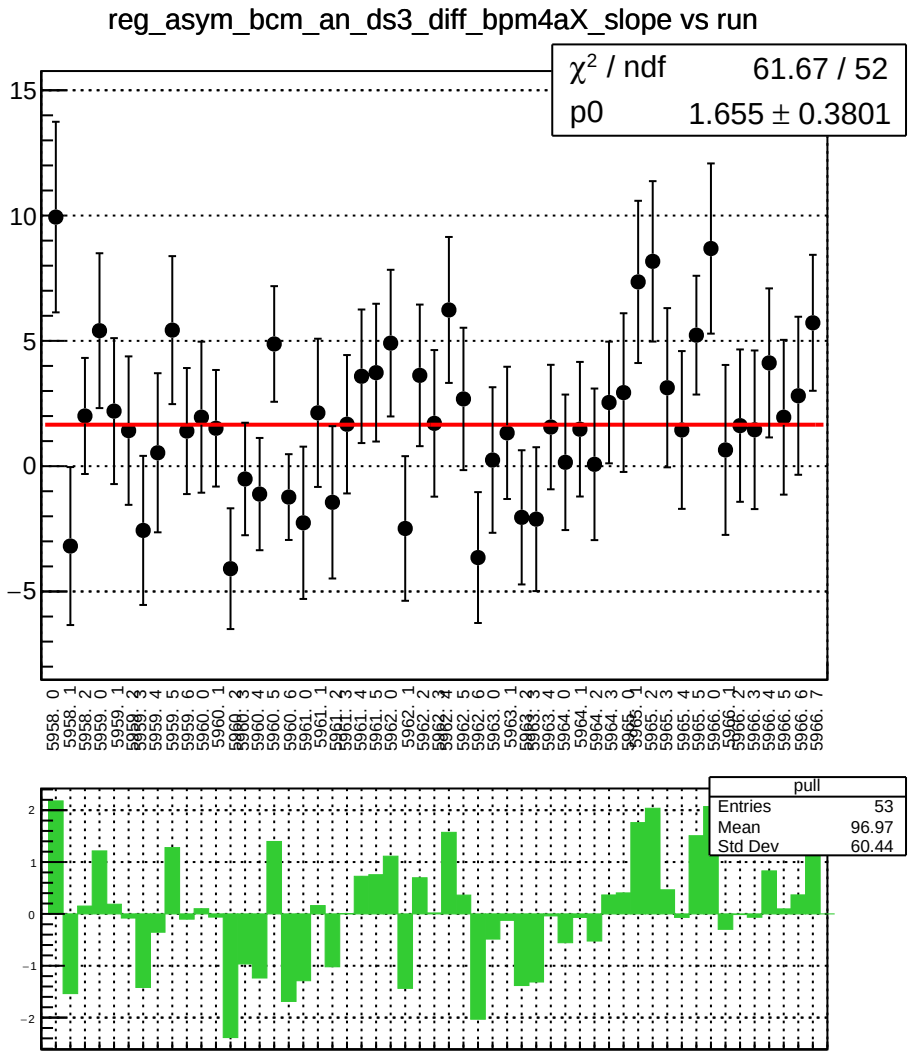

pull1D
Entries 53
Mean −0.01515
Std Dev 0.8627

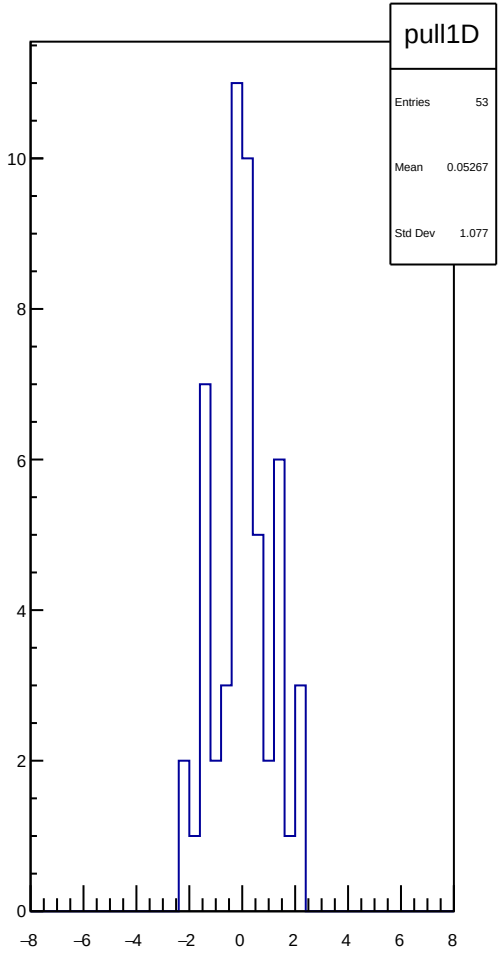

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.17 / 52
p0 −60.82 ± 3.038
pull
Entries 53
Mean −53.59
Std Dev 50.85

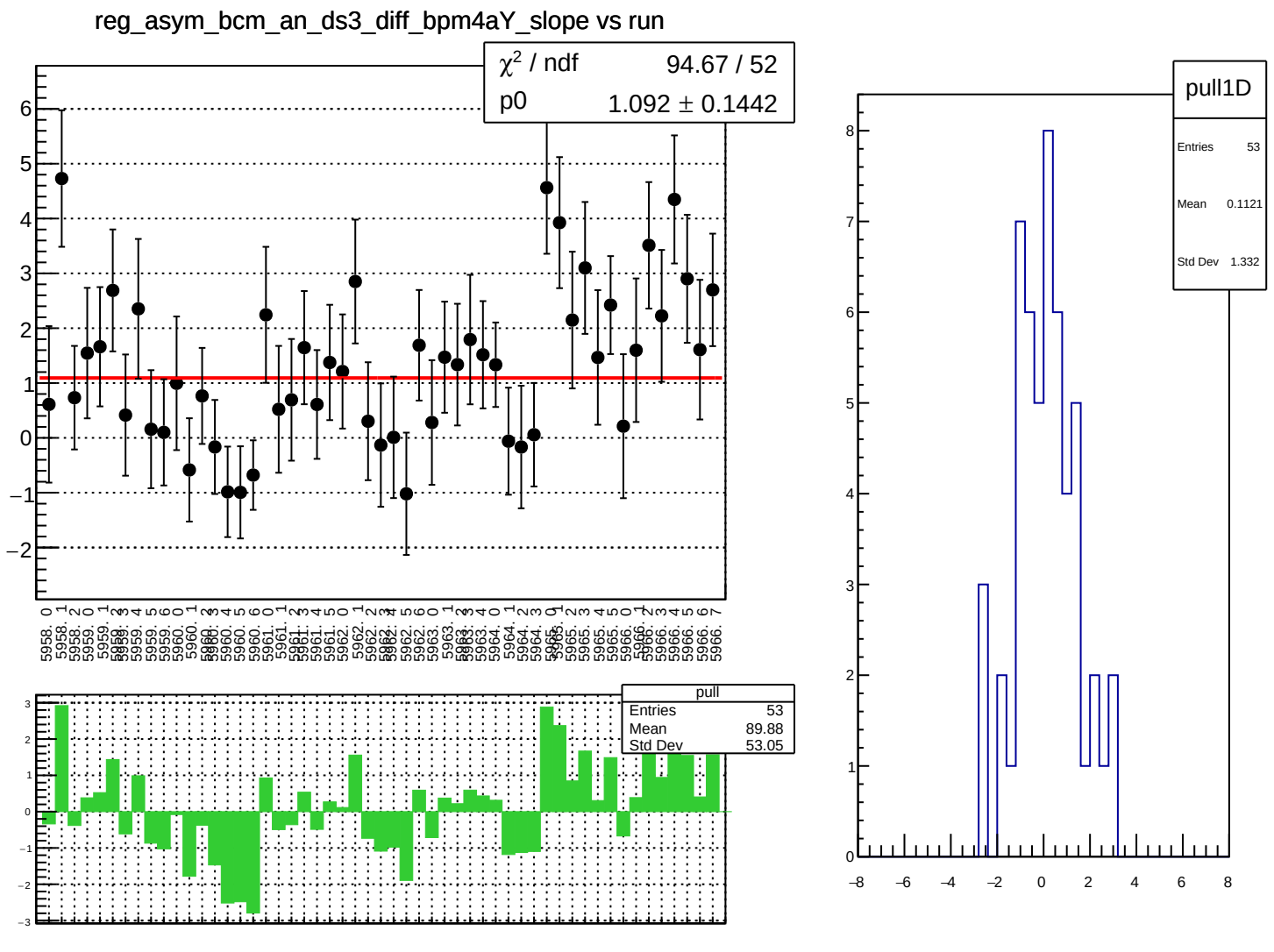

pull1D
Entries 53
Mean 0.01181
Std Dev 0.689

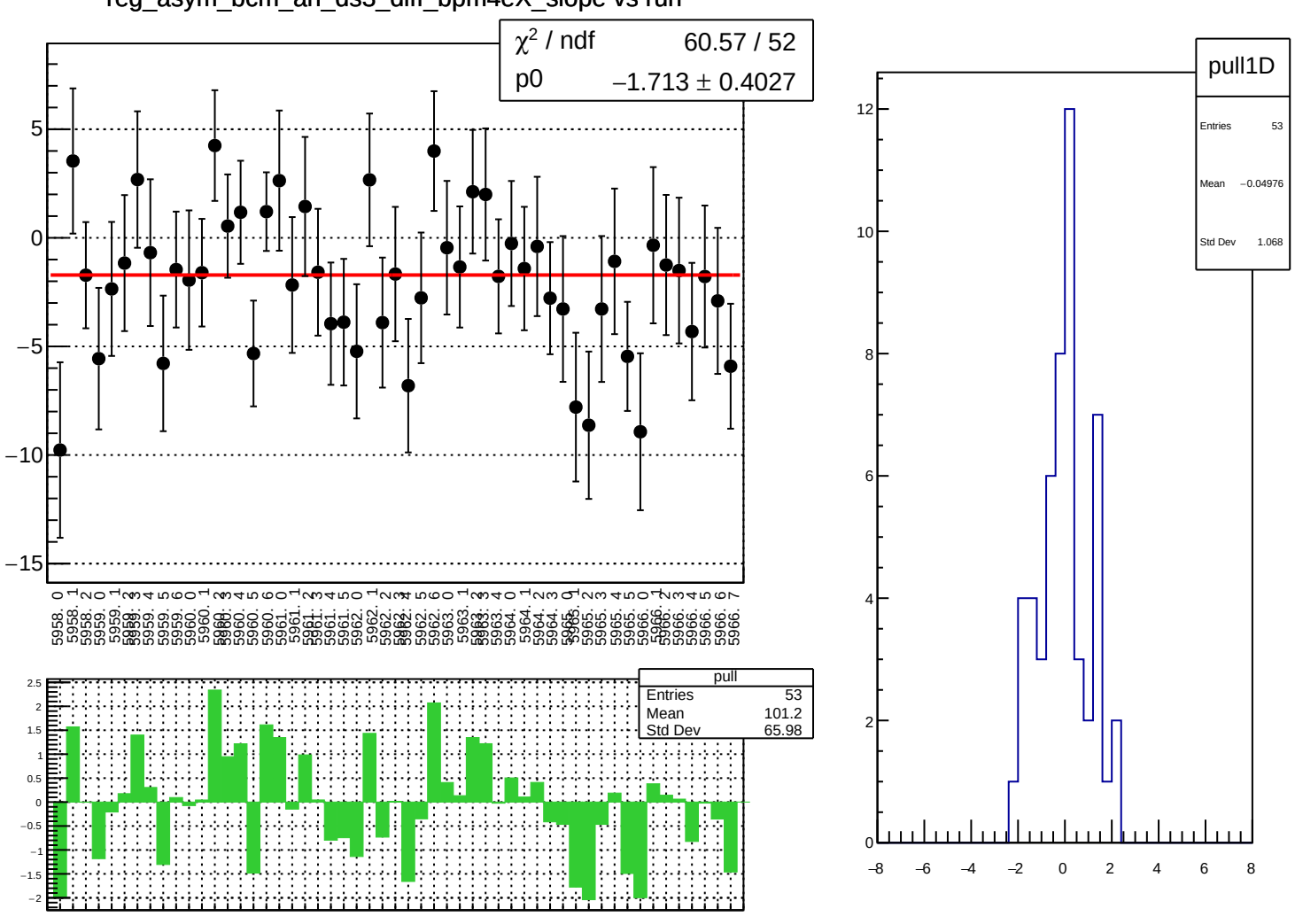

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.81 / 52
p0 −11.95 ± 1.404
pull
Entries 53
Mean −499.6
Std Dev 535.8
pull1D
Entries 53
Mean 0.004525
Std Dev 0.8775

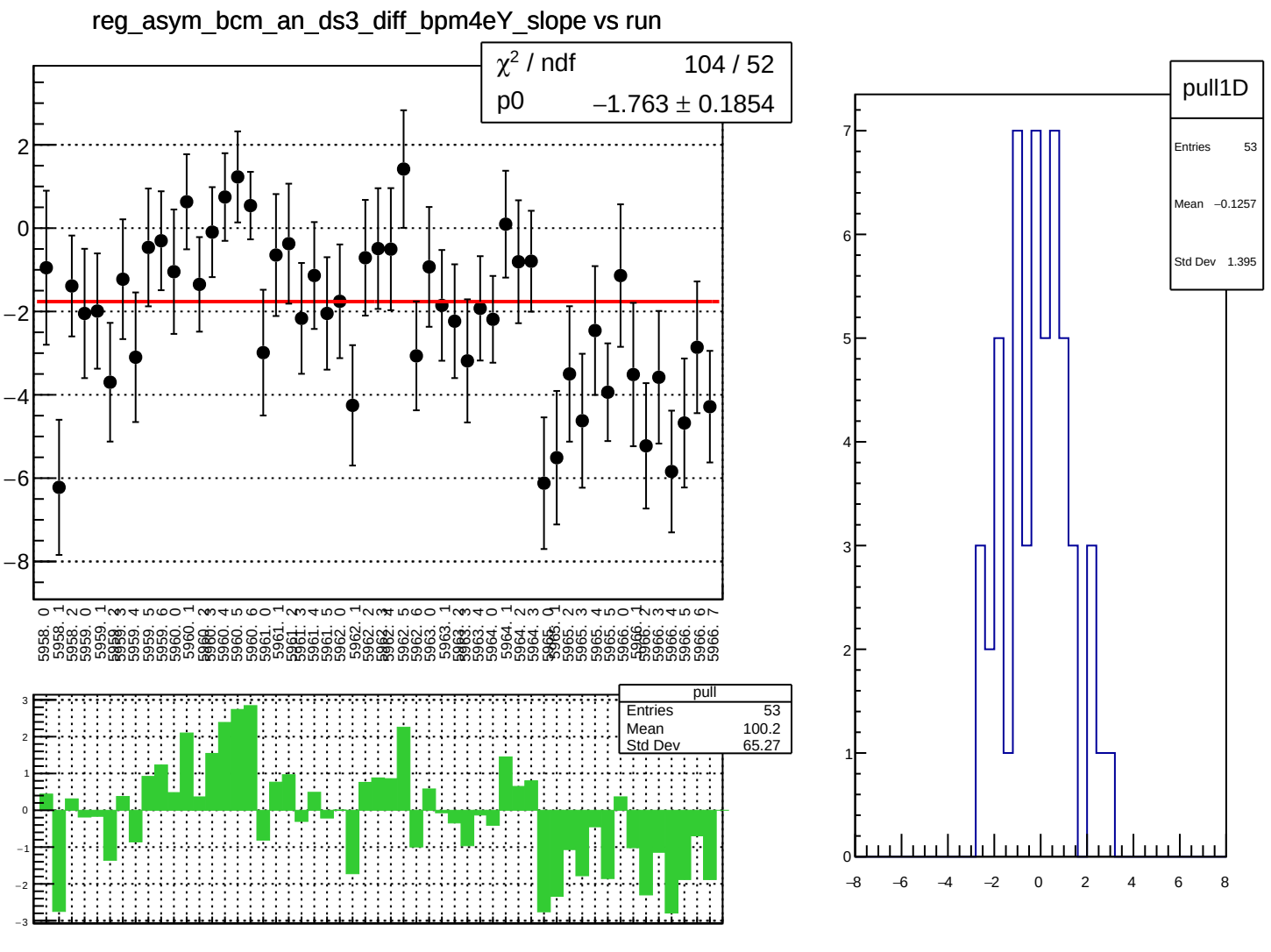

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 46.24 / 52
p0 13.9 ± 0.1279
pull
Entries 53
Mean 18.61
Std Dev 41.77
pull1D
Entries 53
Mean −0.03225
Std Dev 0.9335

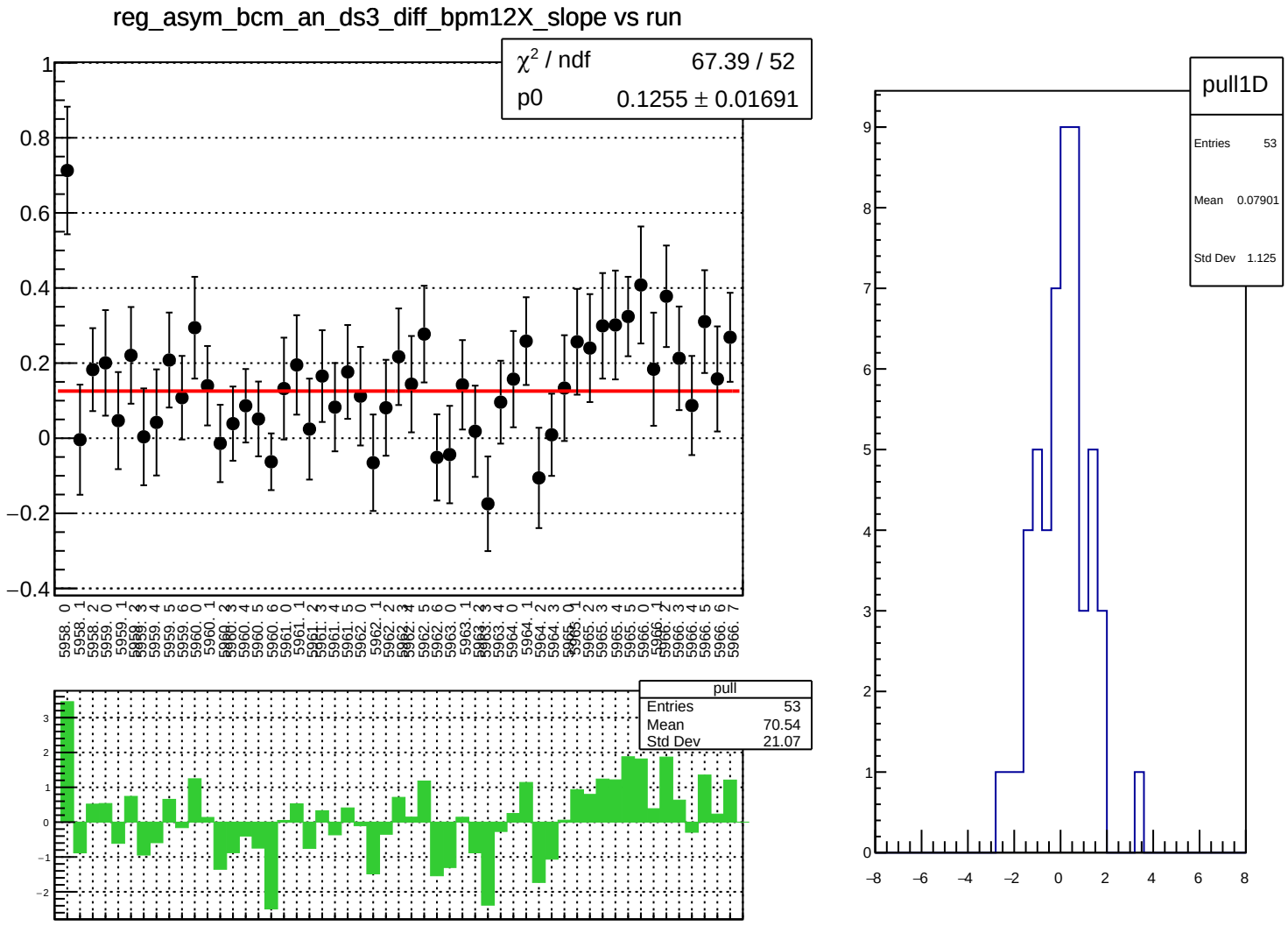

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 61.67 / 52
p0 1.655 ± 0.3801
pull
Entries 53
Mean 96.97
Std Dev 60.44

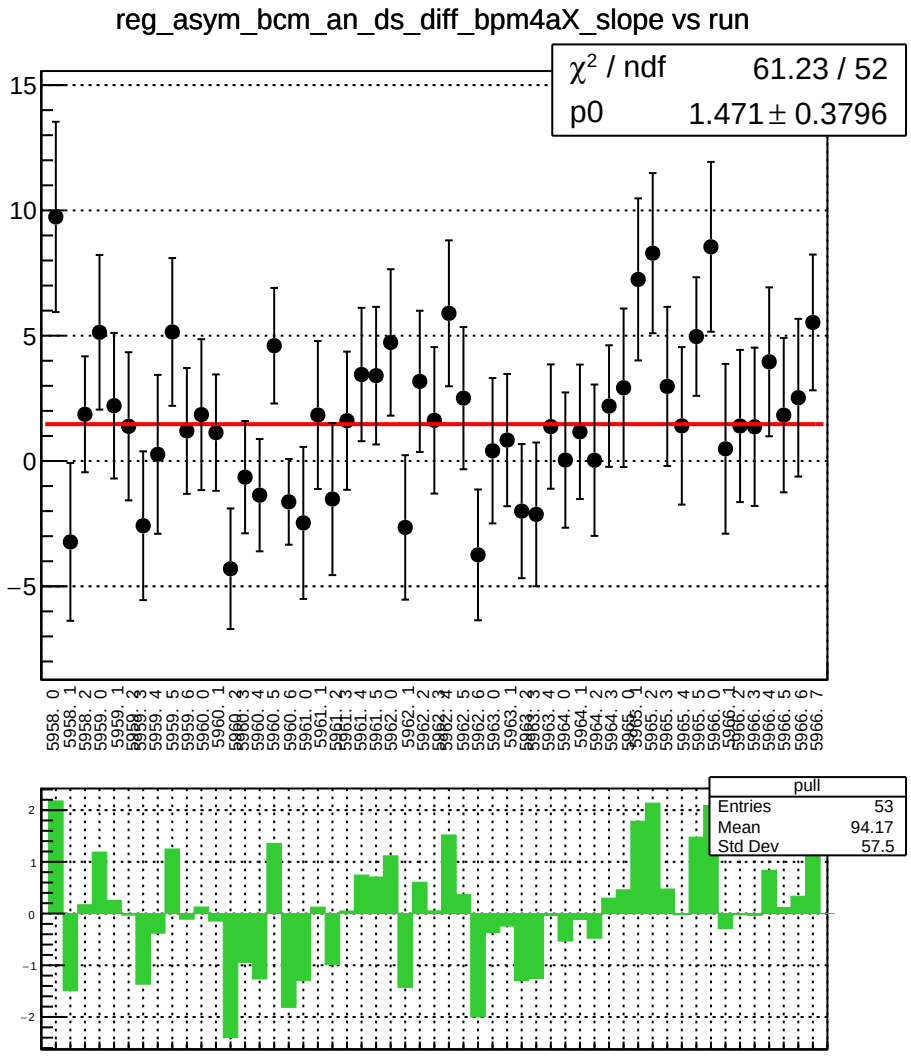

pull1D
Entries 53
Mean 0.05267
Std Dev 1.077

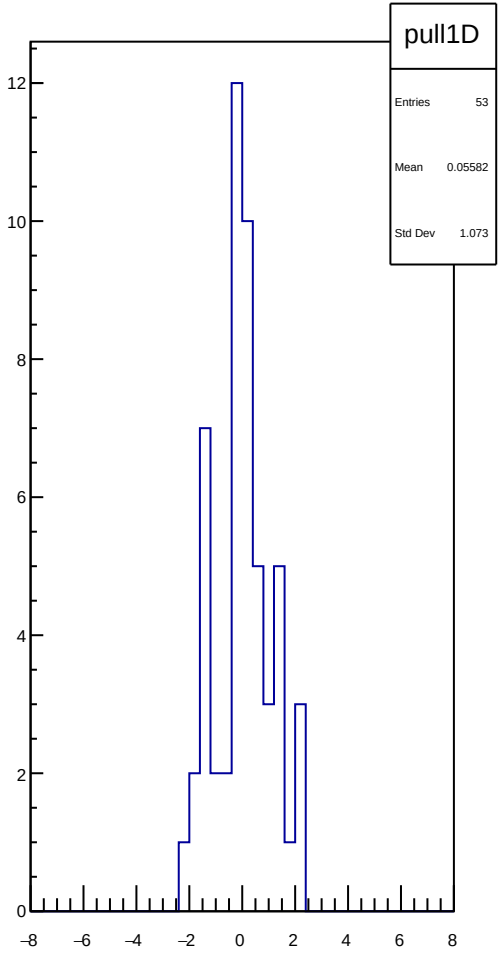

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 94.67 / 52
p0 1.092 ± 0.1442
pull
Entries 53
Mean 89.88
Std Dev 53.05
pull1D
Entries 53
Mean 0.1121
Std Dev 1.332

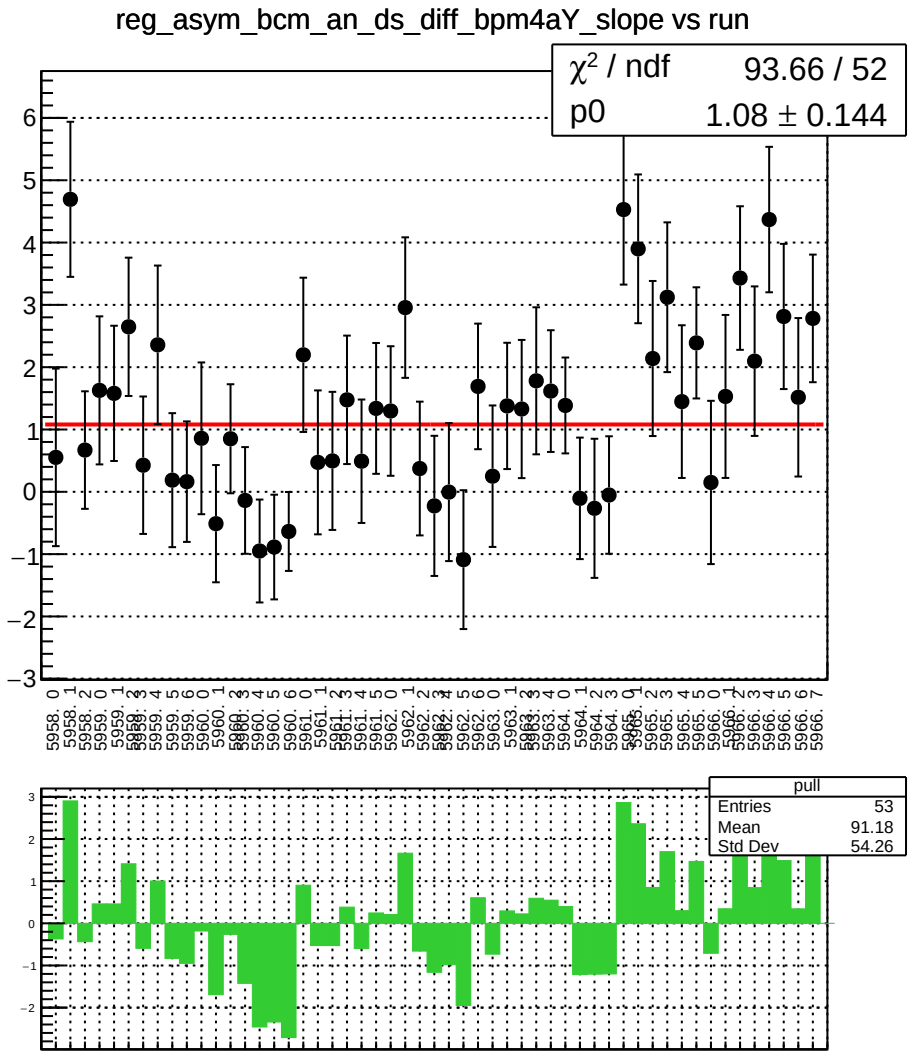

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 60.57 / 52
p0 −1.713 ± 0.4027
pull
Entries 53
Mean 101.2
Std Dev 65.98
pull1D
Entries 53
Mean −0.04976
Std Dev 1.068

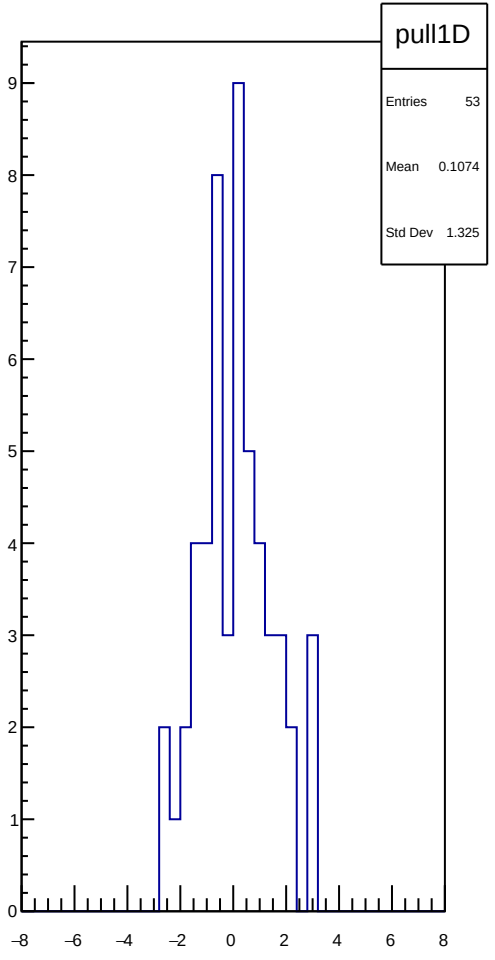

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 104 / 52
p0 −1.763 ± 0.1854
pull
Entries 53
Mean 100.2
Std Dev 65.27
pull1D
Entries 53
Mean −0.1257
Std Dev 1.395

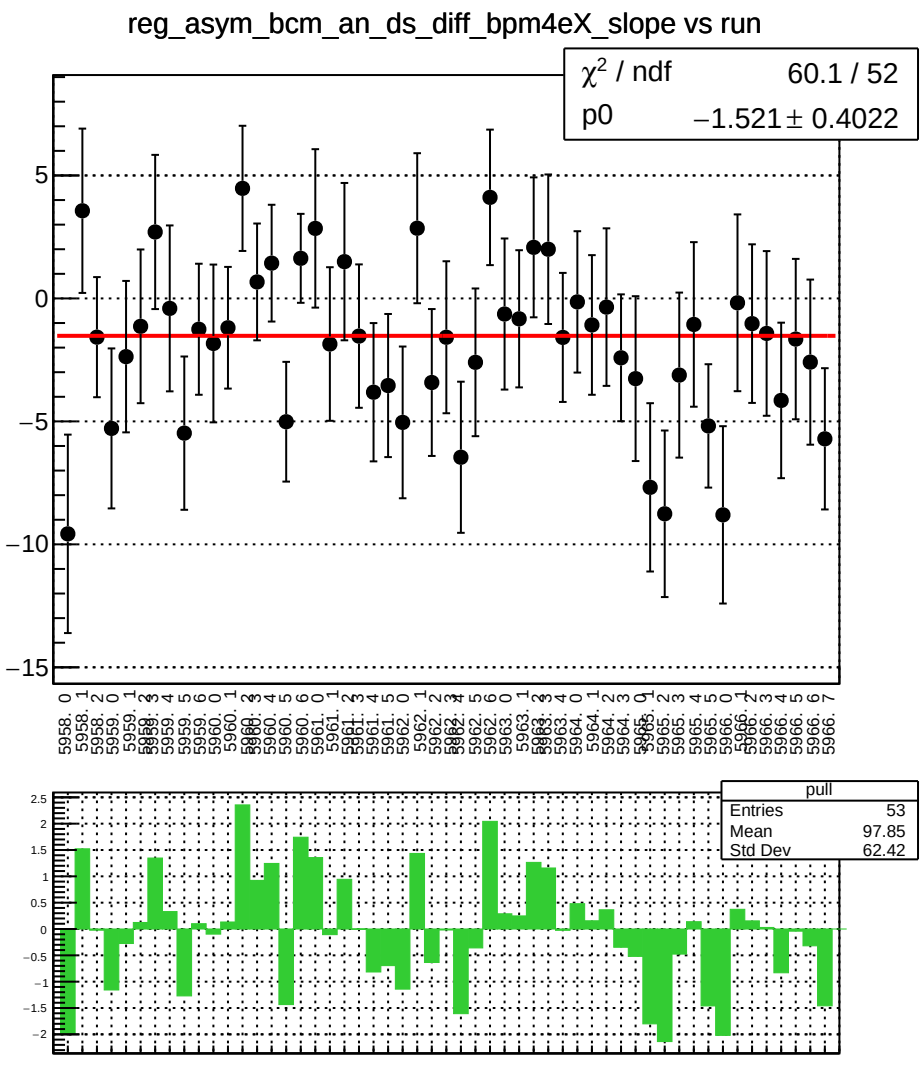

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 67.39 / 52
p0 0.1255 ± 0.01691
pull
Entries 53
Mean 70.54
Std Dev 21.07
pull1D
Entries 53
Mean 0.07901
Std Dev 1.125

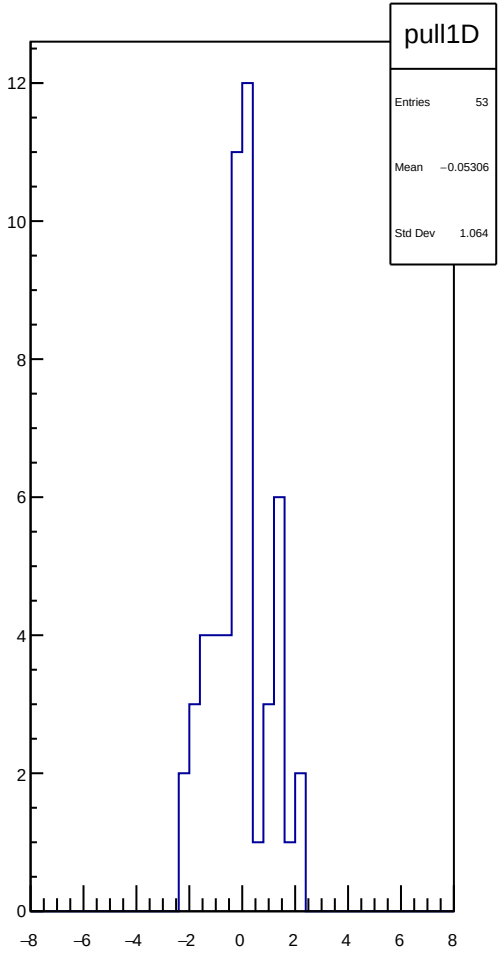

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 61.23 / 52
p0 1.471 ± 0.3796
pull
Entries 53
Mean 94.17
Std Dev 57.5

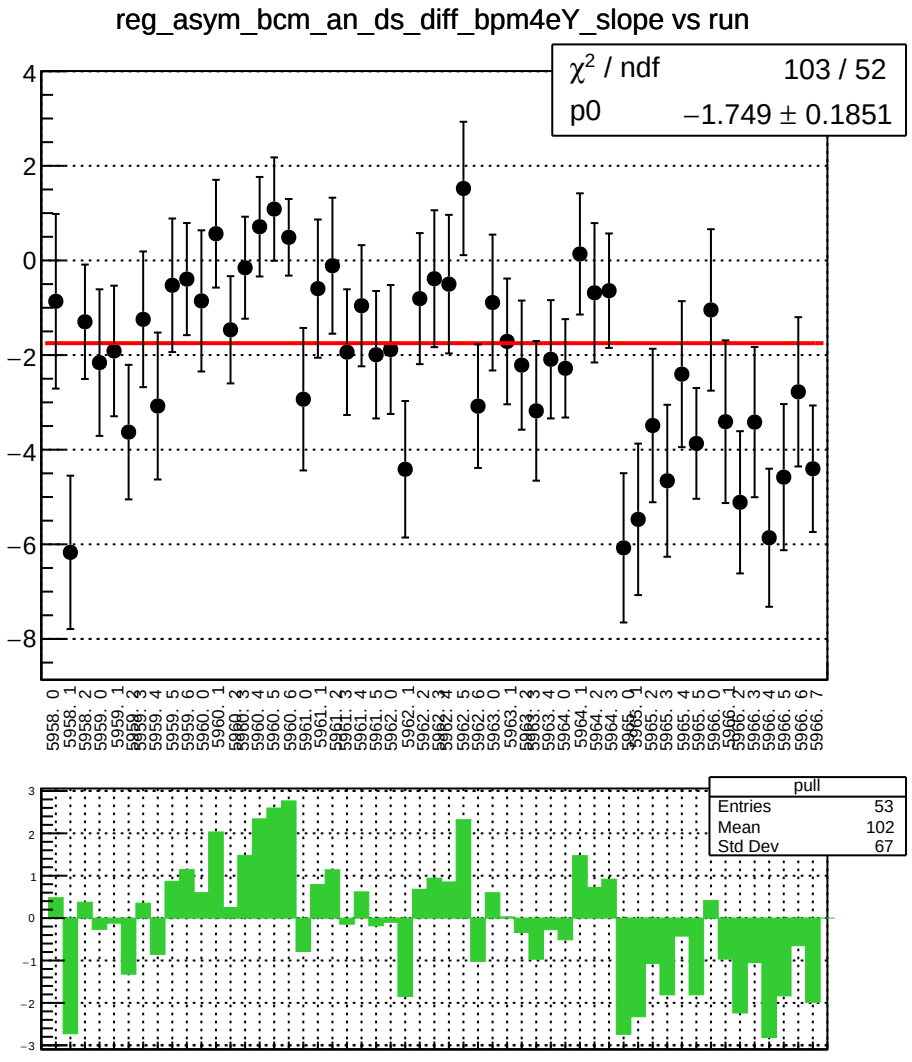

pull1D
Entries 53
Mean 0.05582
Std Dev 1.073

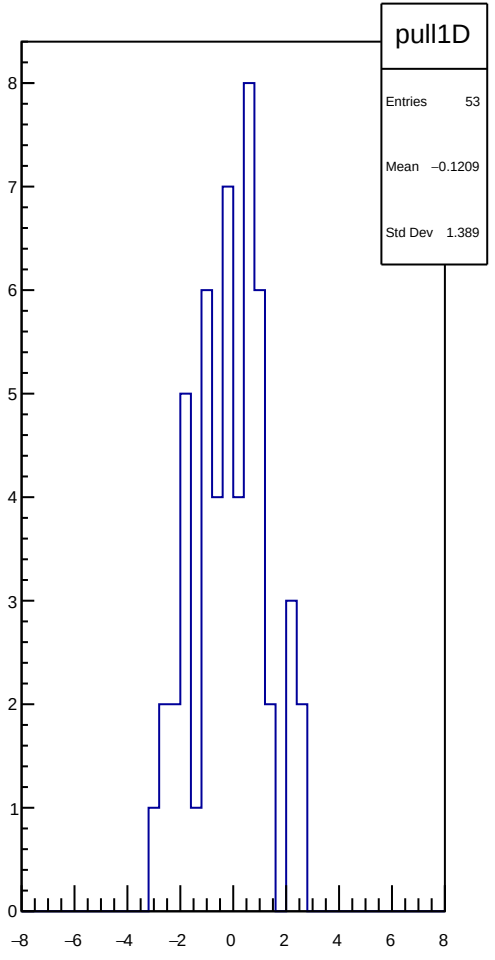

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 93.66 / 52
p0 1.08 ± 0.144
pull
Entries 53
Mean 91.18
Std Dev 54.26

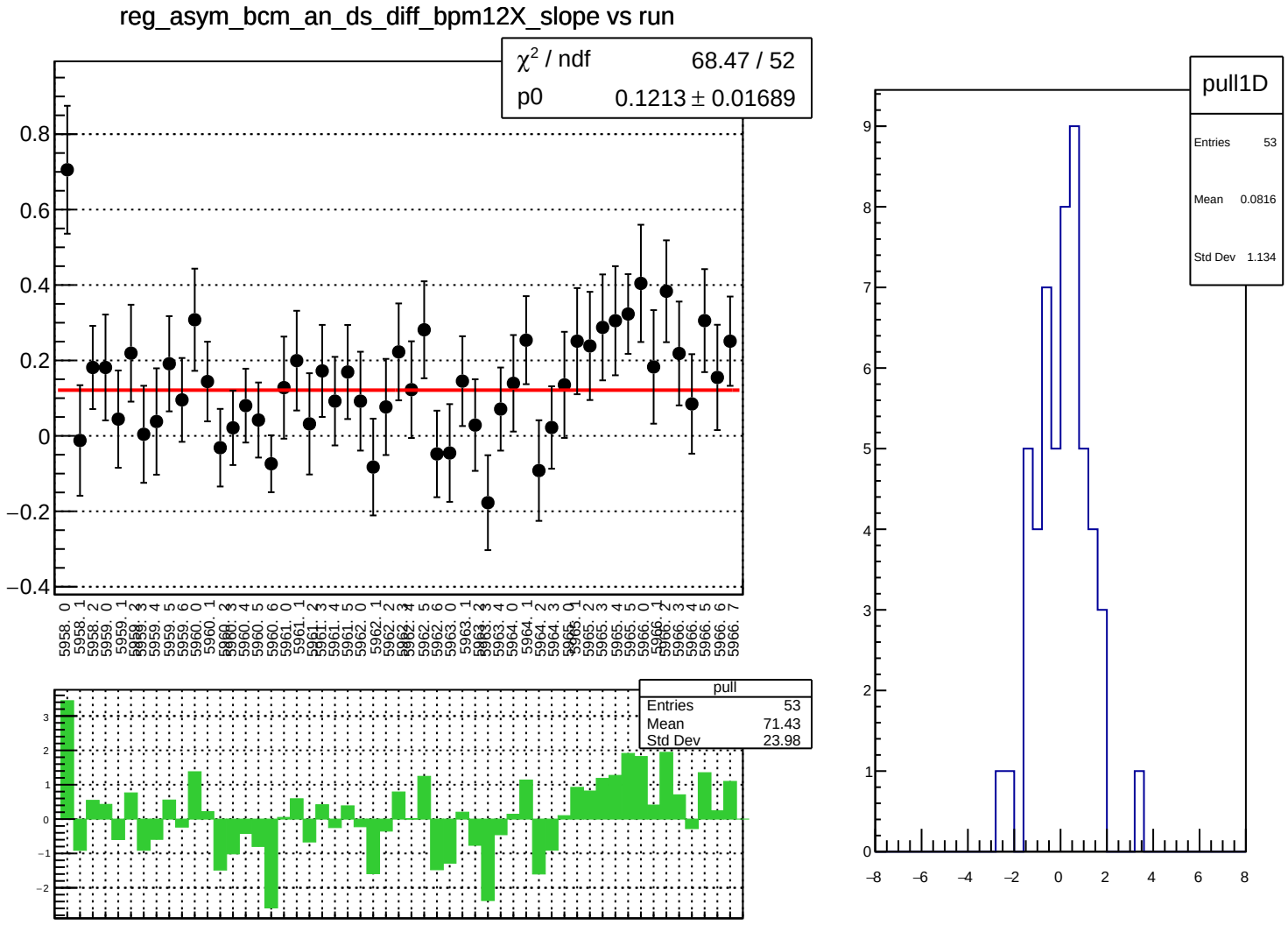

pull1D
Entries 53
Mean 0.1074
Std Dev 1.325

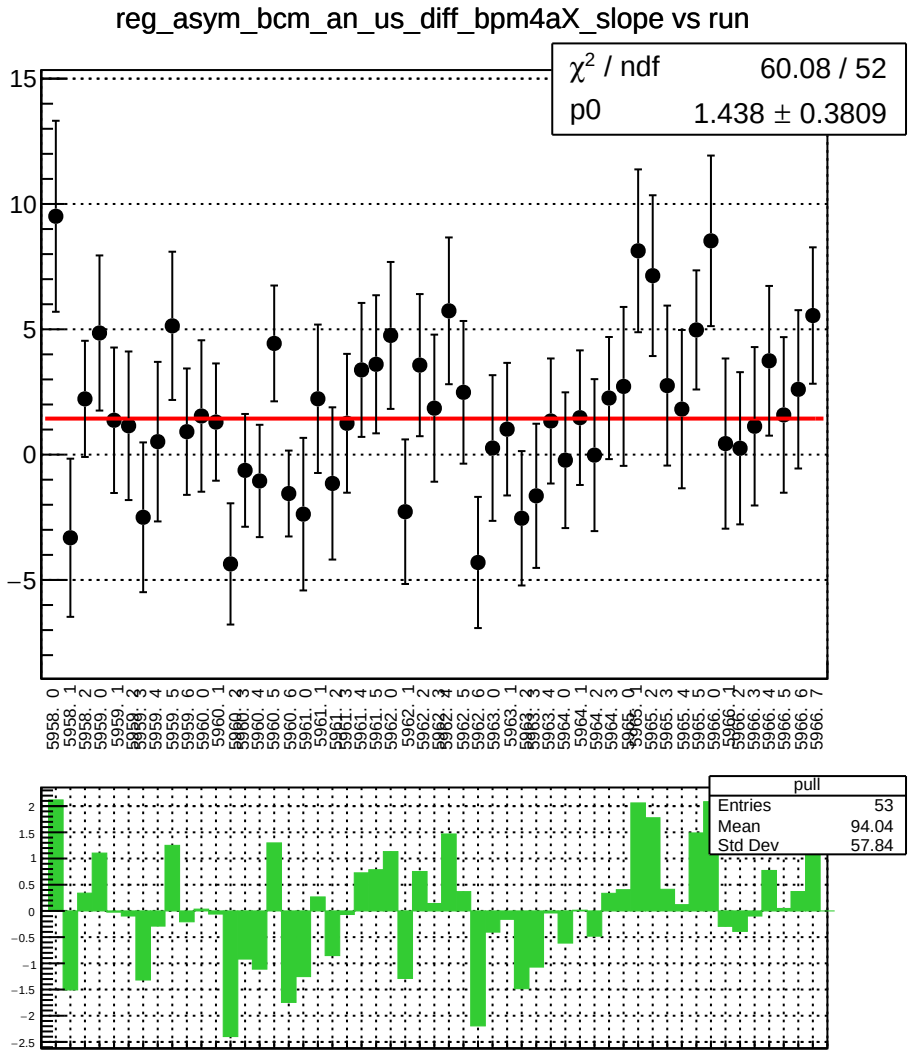

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 60.1 / 52
p0 −1.521 ± 0.4022
pull
Entries 53
Mean 97.85
Std Dev 62.42

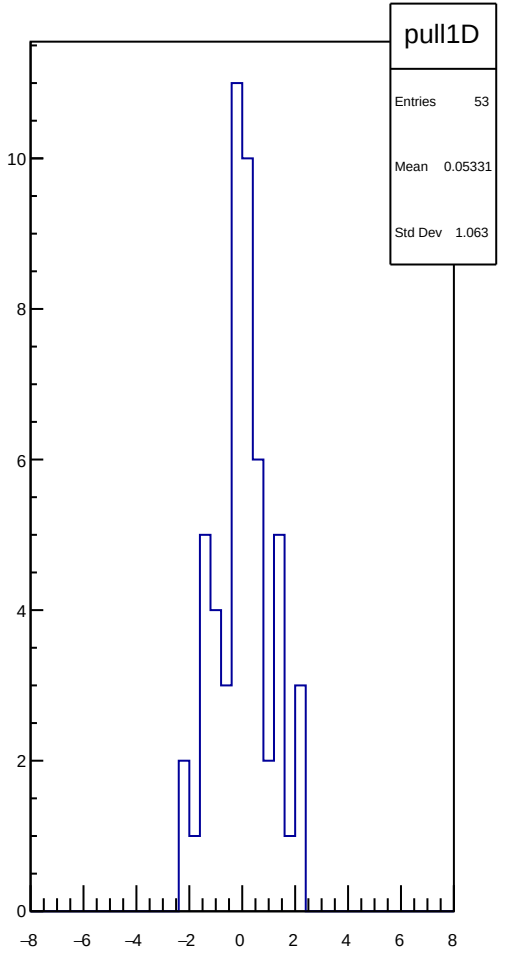

pull1D
Entries 53
Mean −0.05306
Std Dev 1.064

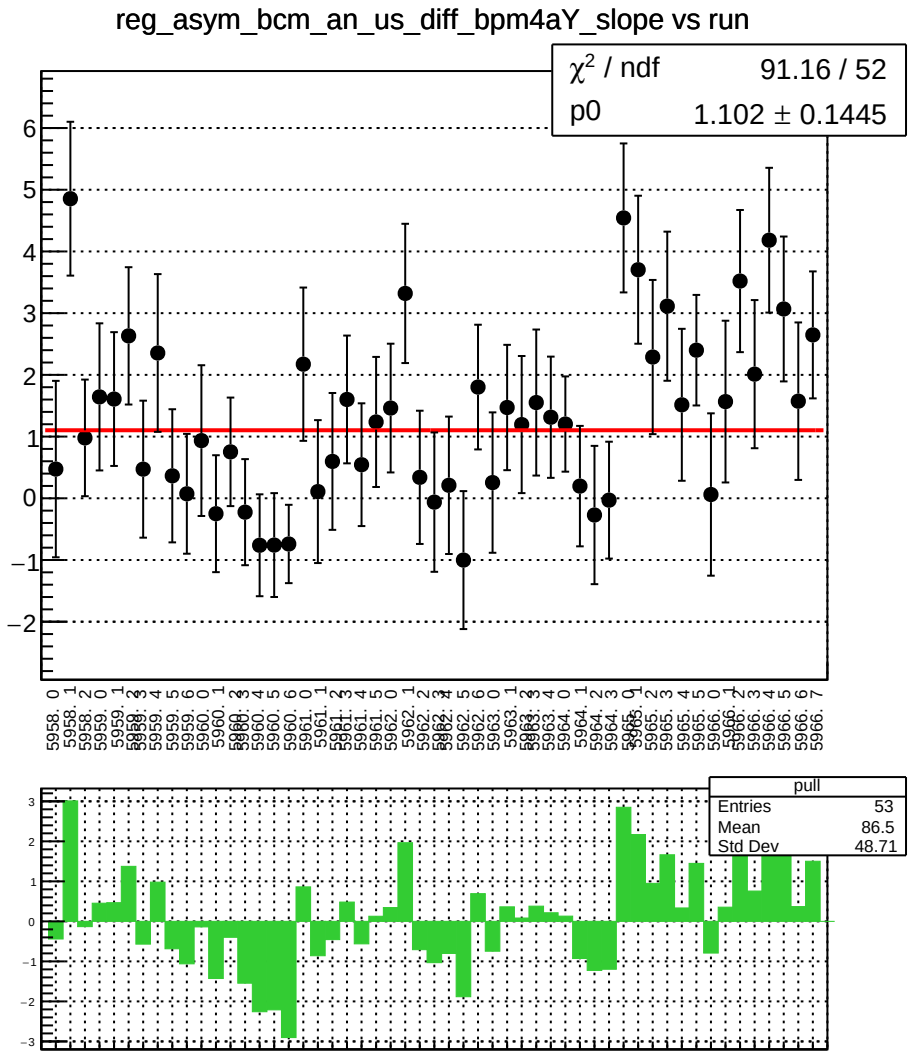

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 103 / 52
p0 −1.749 ± 0.1851
pull
Entries 53
Mean 102
Std Dev 67

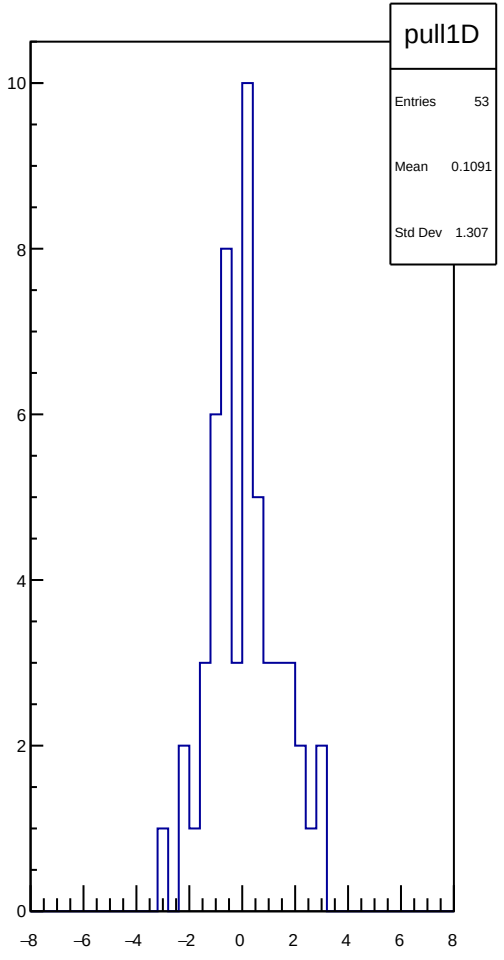

pull1D
Entries 53
Mean −0.1209
Std Dev 1.389

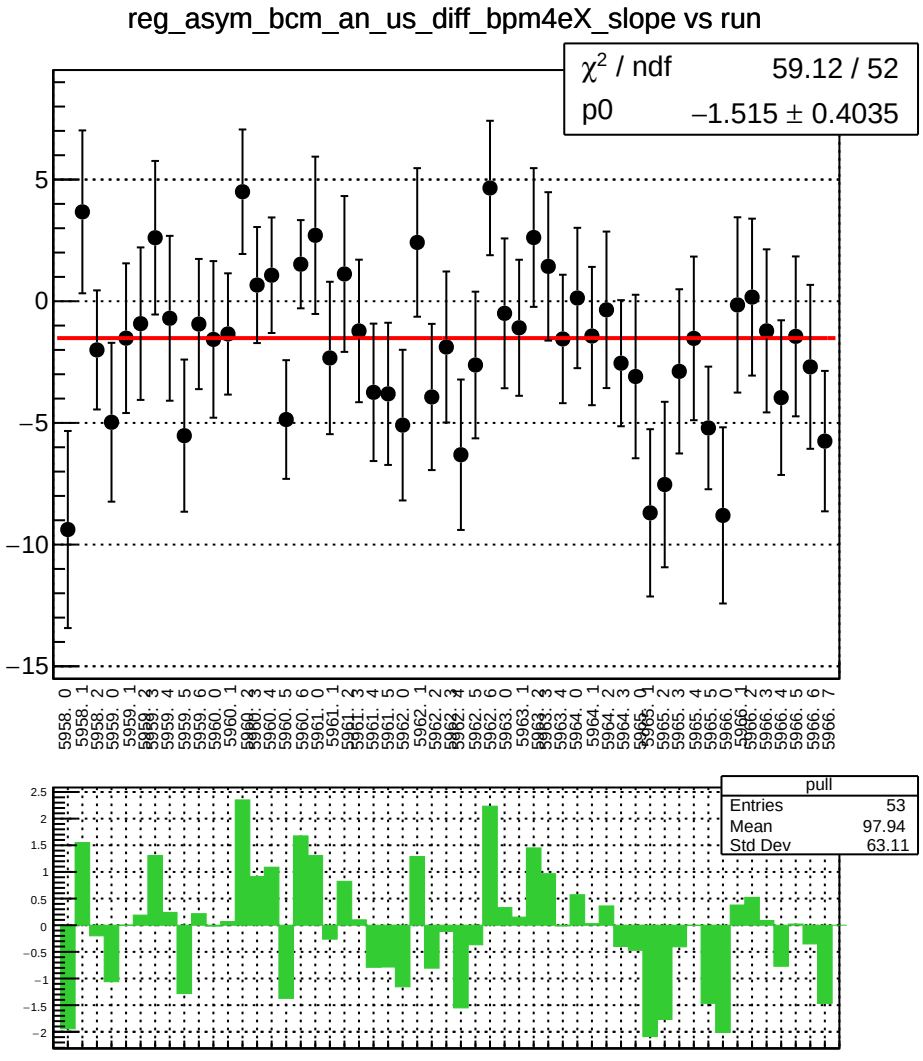

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 68.47 / 52
p0 0.1213 ± 0.01689
pull
Entries 53
Mean 71.43
Std Dev 23.98
pull1D
Entries 53
Mean 0.0816
Std Dev 1.134

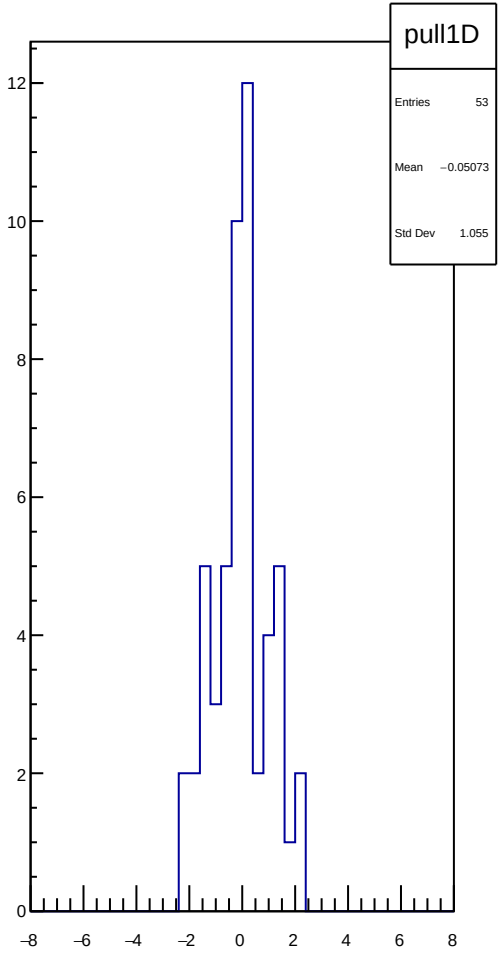

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 60.08 / 52
p0 1.438 ± 0.3809
pull
Entries 53
Mean 94.04
Std Dev 57.84

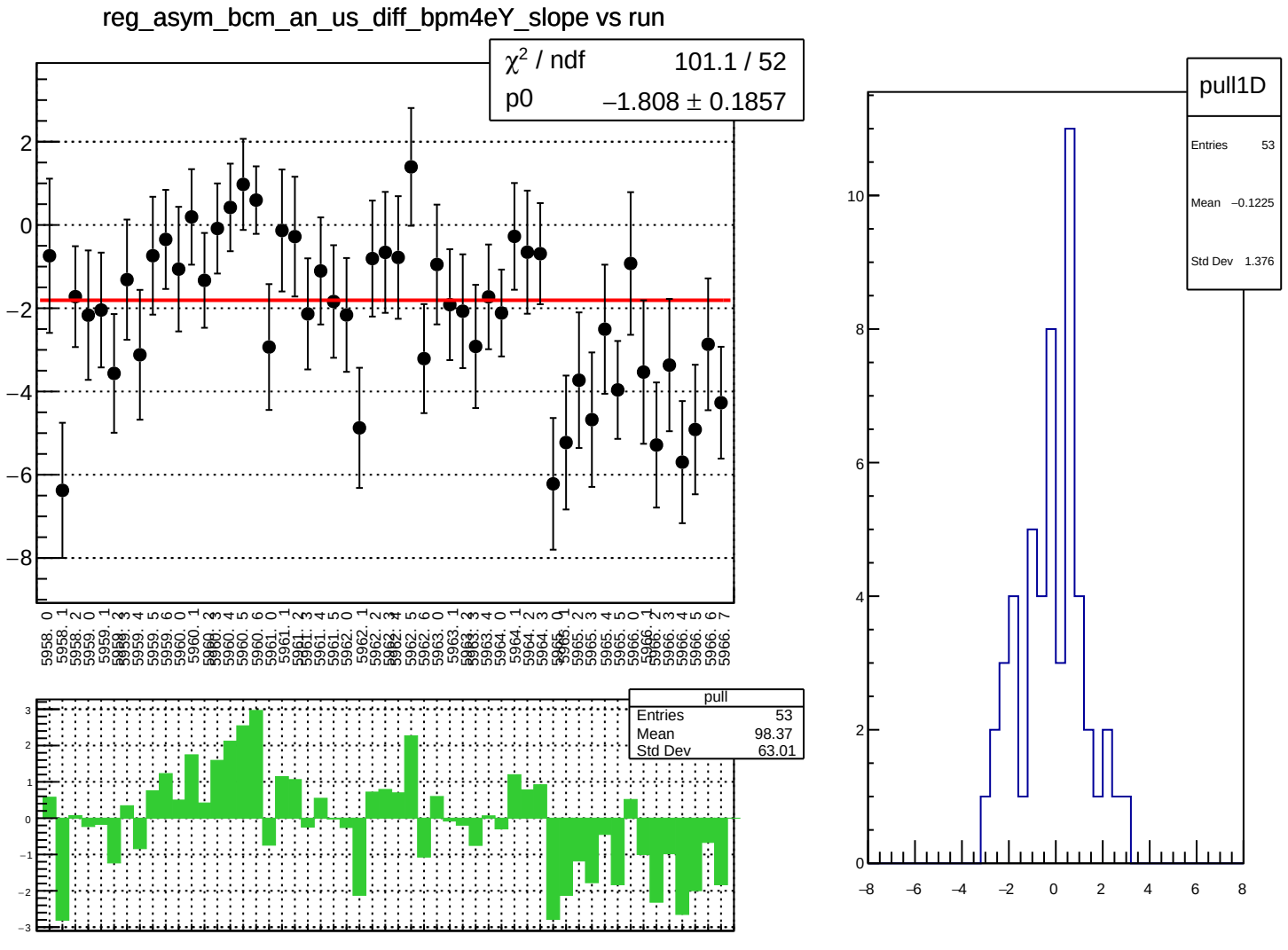

pull1D
Entries 53
Mean 0.05331
Std Dev 1.063

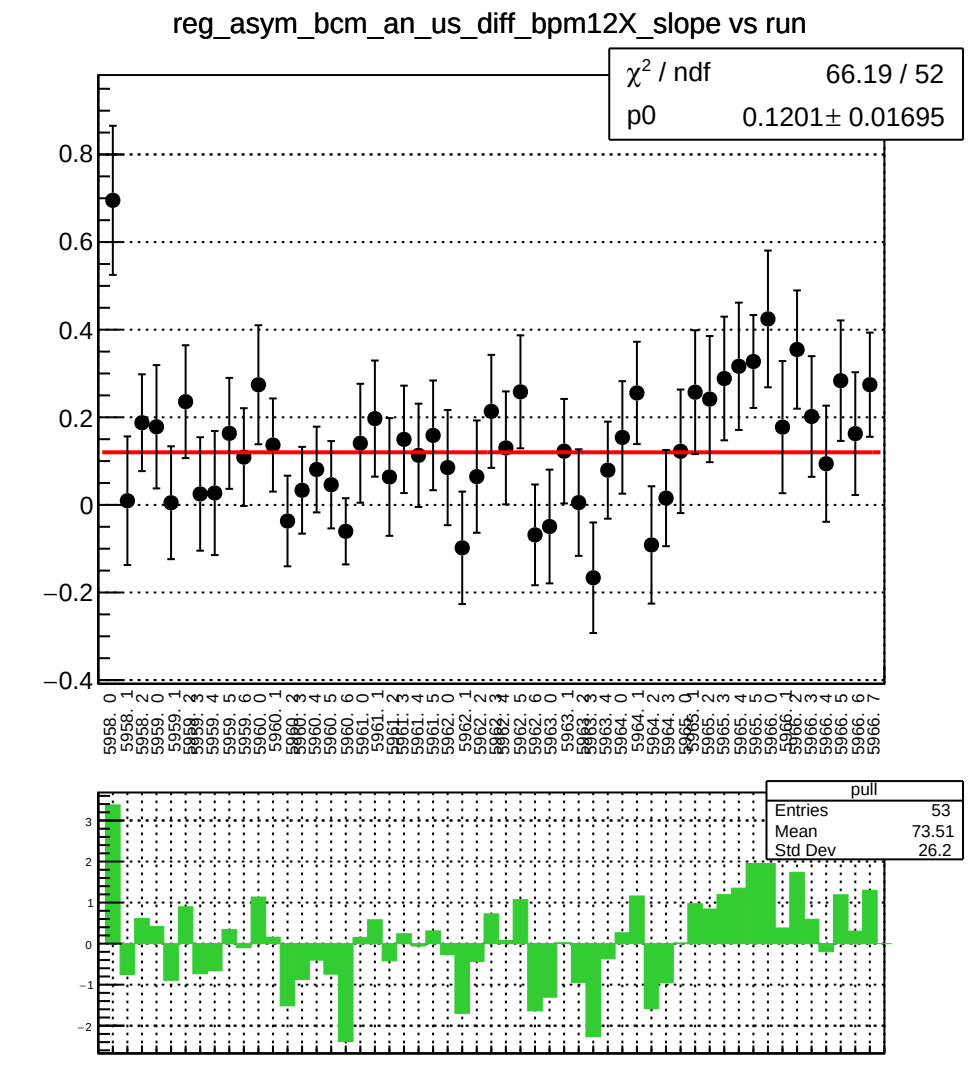

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 91.16 / 52
p0 1.102 ± 0.1445
pull
Entries 53
Mean 86.5
Std Dev 48.71

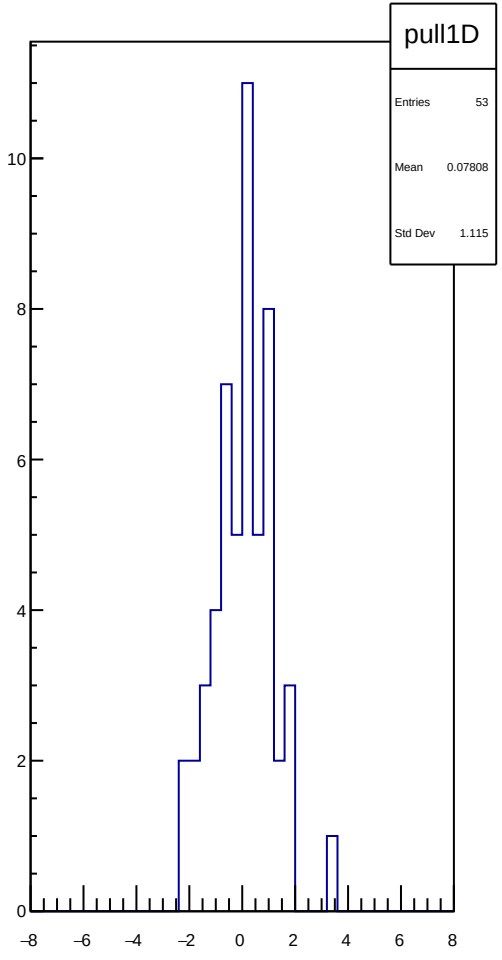

pull1D
Entries 53
Mean 0.1091
Std Dev 1.307

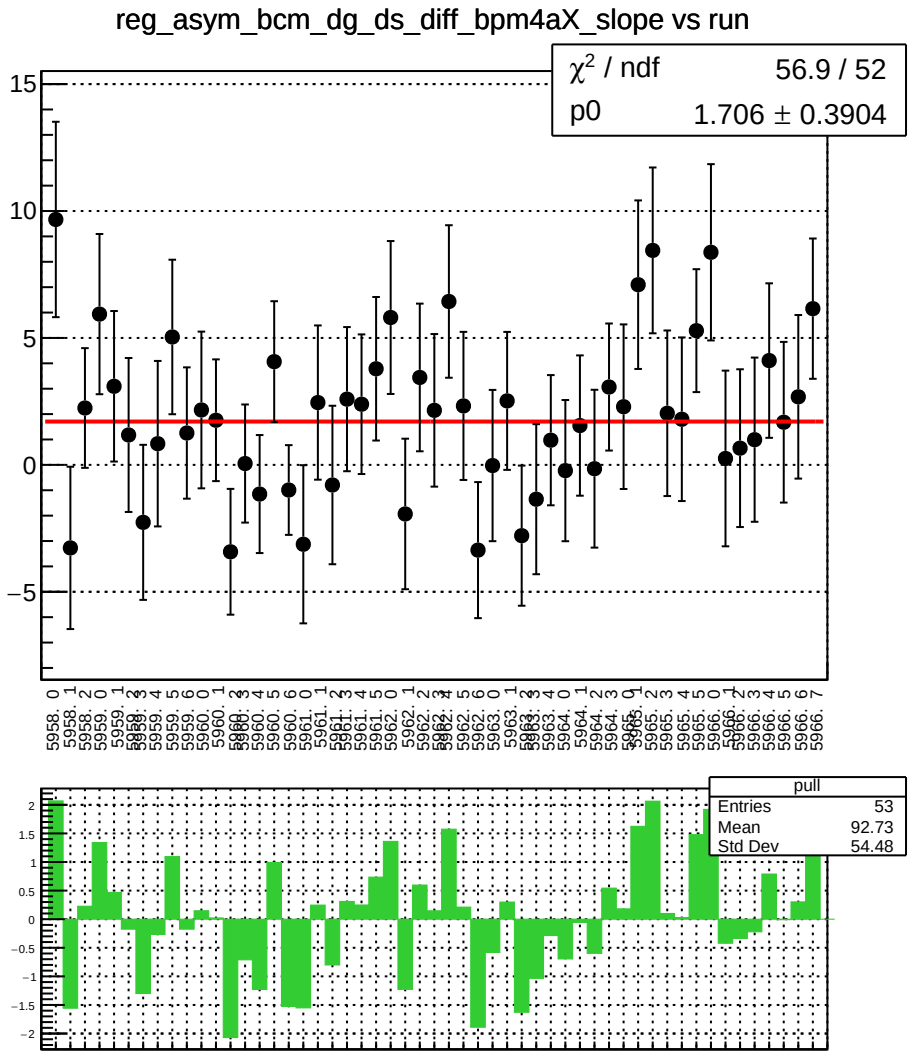

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 59.12 / 52
p0 −1.515 ± 0.4035
pull
Entries 53
Mean 97.94
Std Dev 63.11

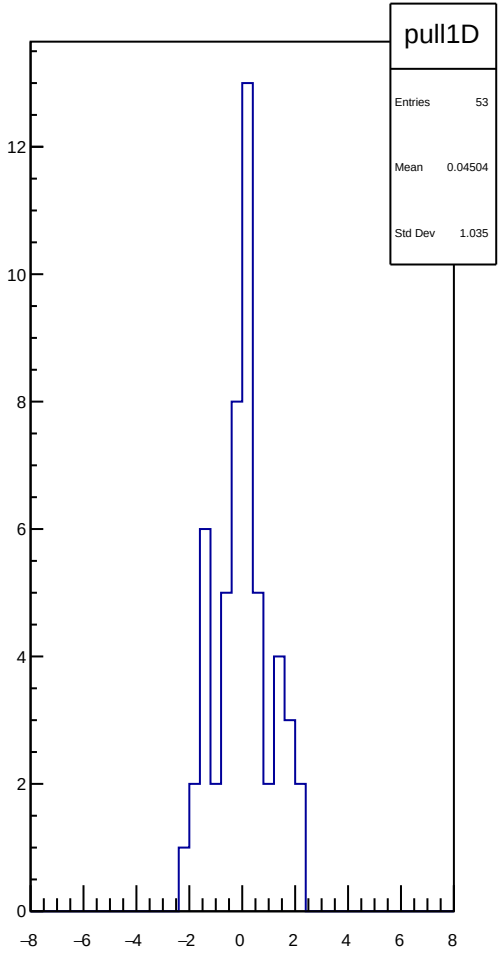

pull1D
Entries 53
Mean −0.05073
Std Dev 1.055

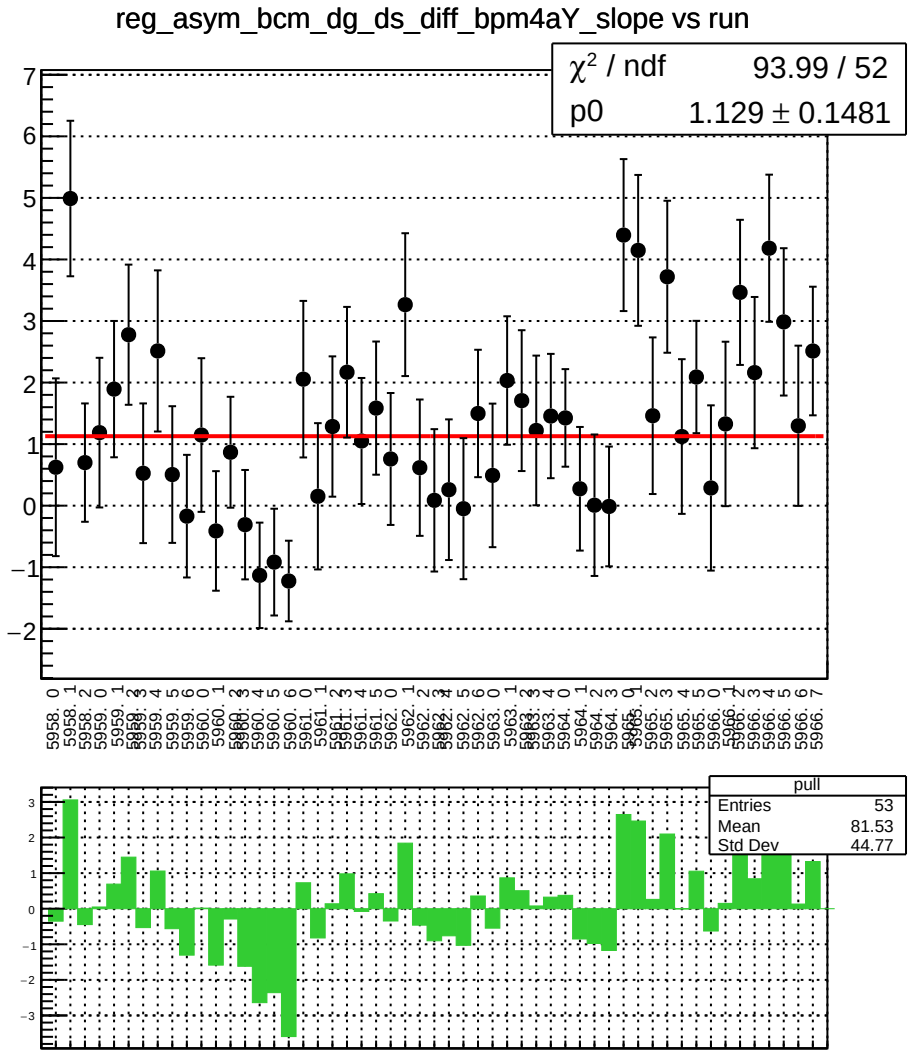

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 101.1 / 52
p0 −1.808 ± 0.1857
pull
Entries 53
Mean 98.37
Std Dev 63.01
pull1D
Entries 53
Mean −0.1225
Std Dev 1.376

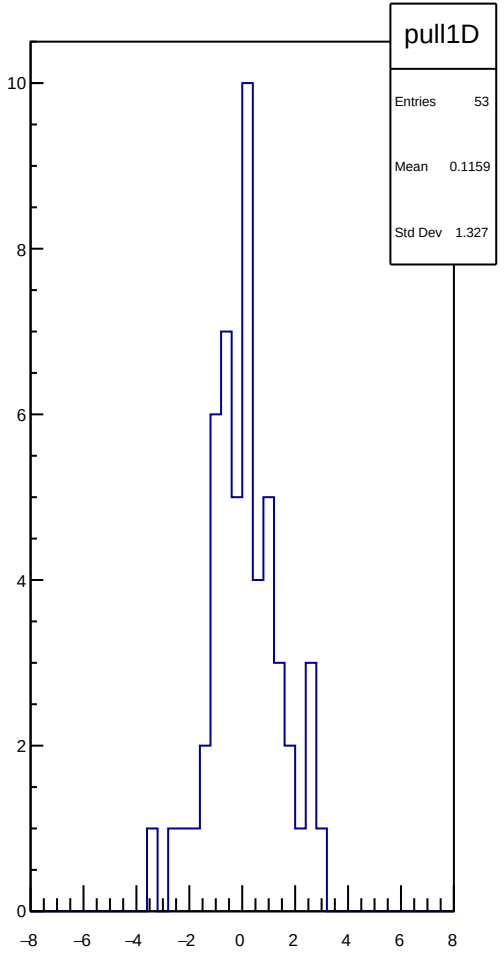

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 66.19 / 52
p0 0.1201± 0.01695
pull
Entries 53
Mean 73.51
Std Dev 26.2

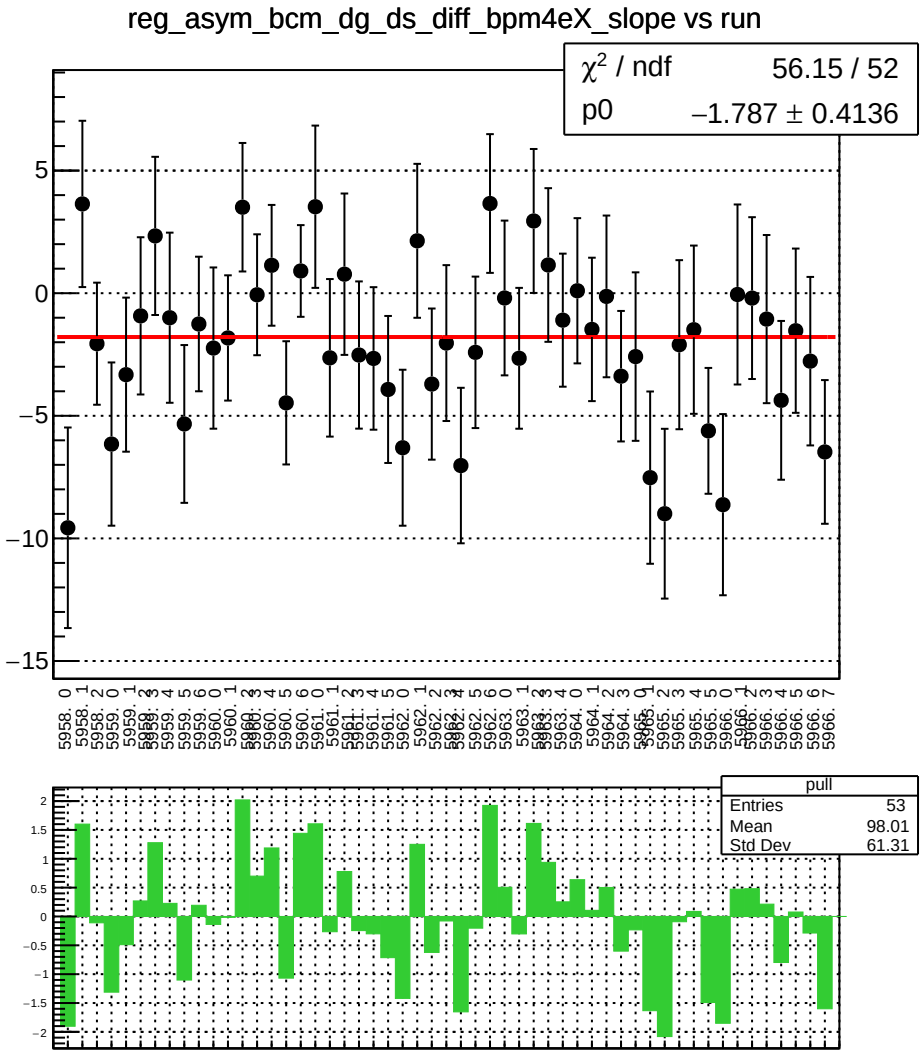

pull1D
Entries 53
Mean 0.07808
Std Dev 1.115

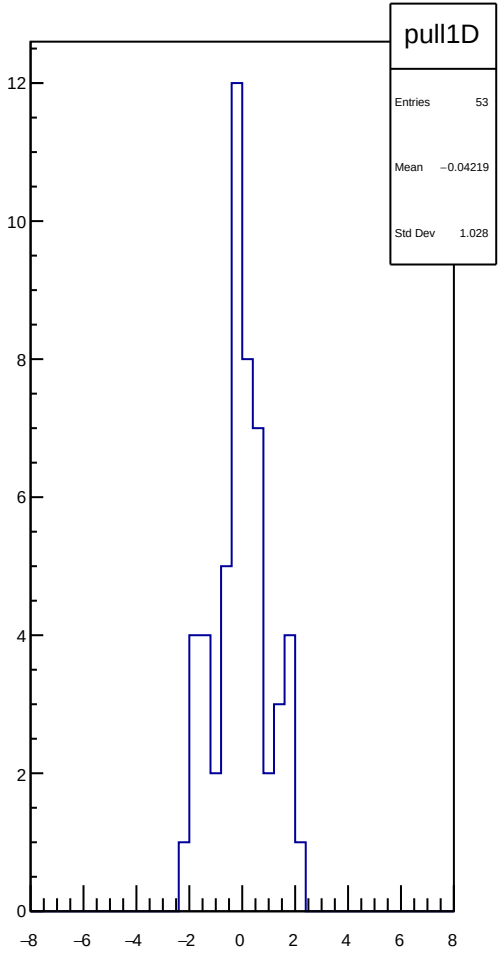

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 56.9 / 52
p0 1.706 ± 0.3904
pull
Entries 53
Mean 92.73
Std Dev 54.48

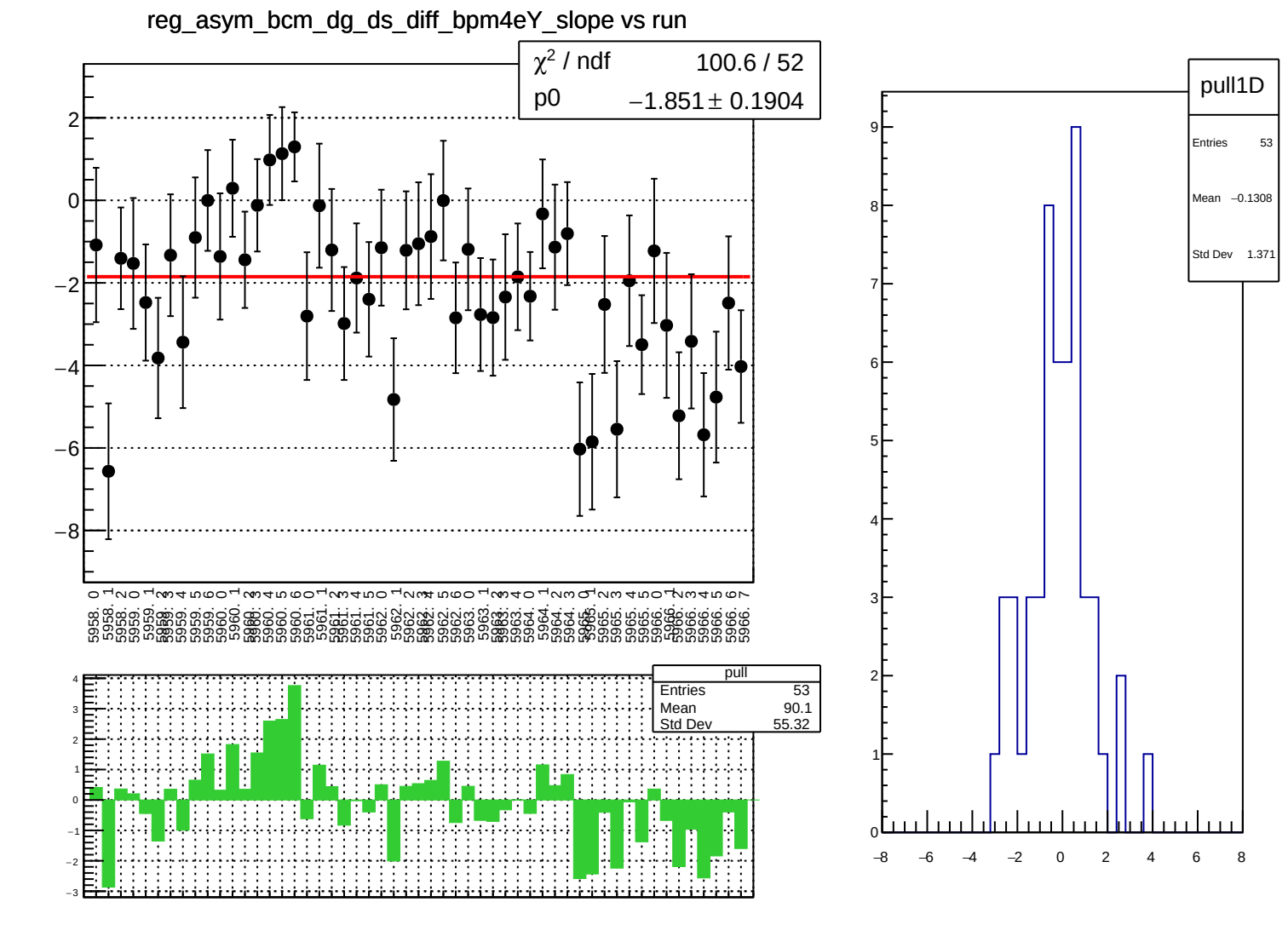

pull1D
Entries 53
Mean 0.04504
Std Dev 1.035

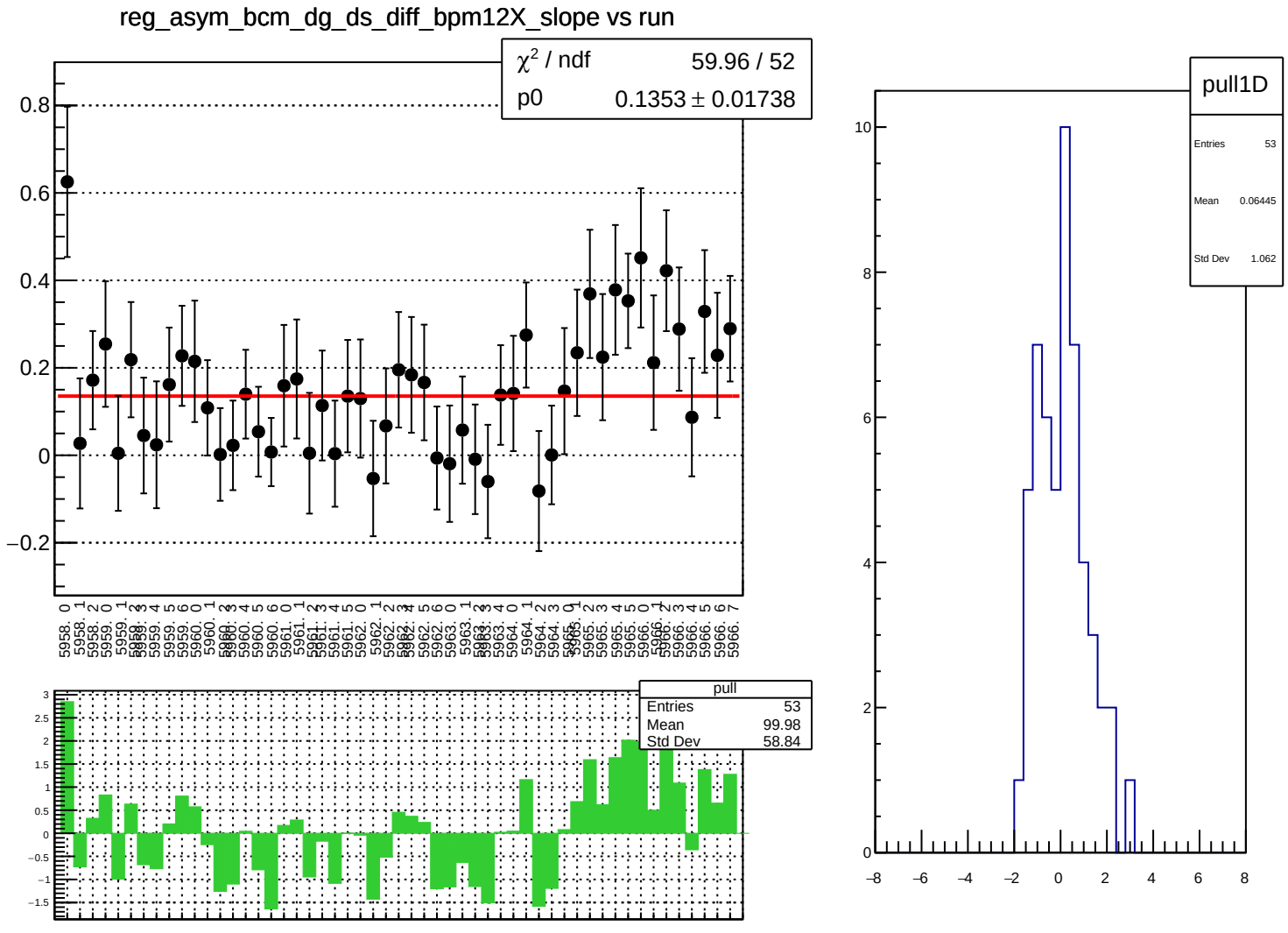

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 93.99 / 52
p0 1.129 ± 0.1481
pull
Entries 53
Mean 81.53
Std Dev 44.77

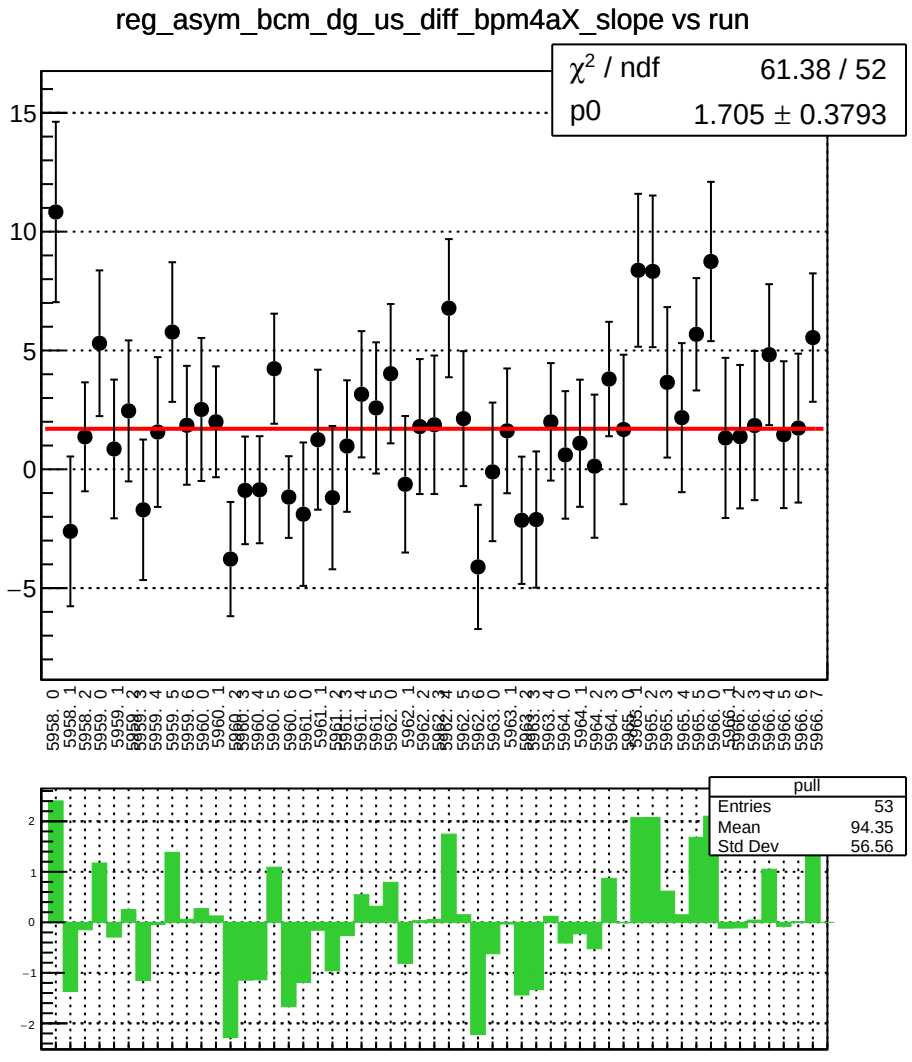

pull1D
Entries 53
Mean 0.1159
Std Dev 1.327

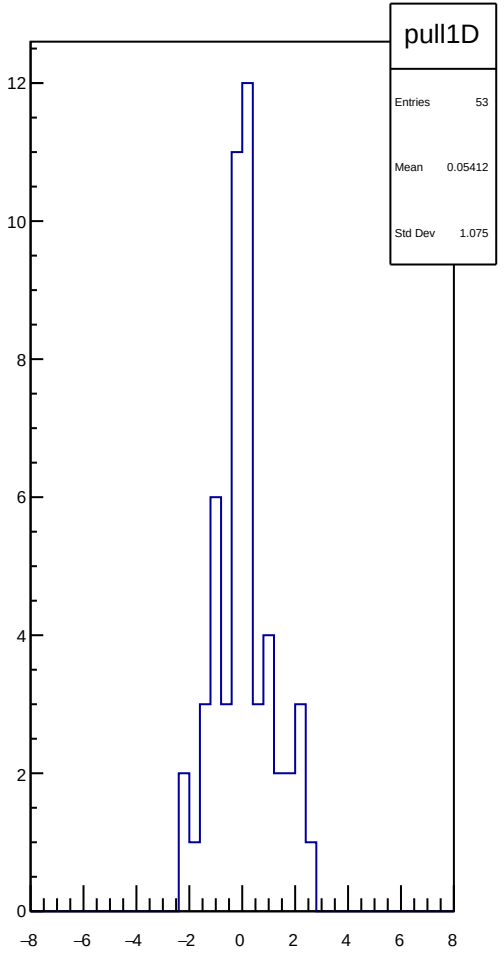

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 56.15 / 52
p0 −1.787 ± 0.4136
pull
Entries 53
Mean 98.01
Std Dev 61.31

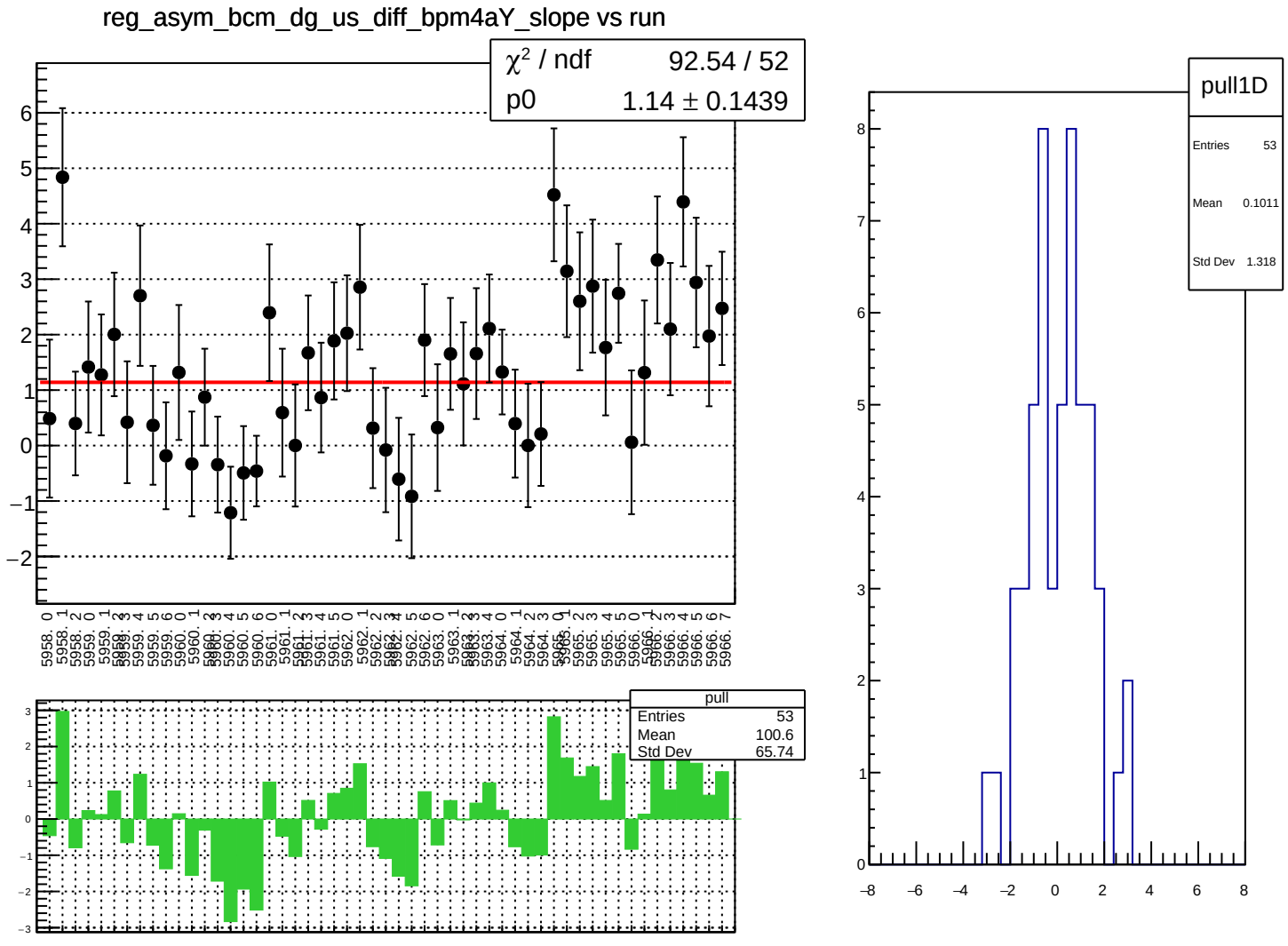

pull1D
Entries 53
Mean −0.04219
Std Dev 1.028

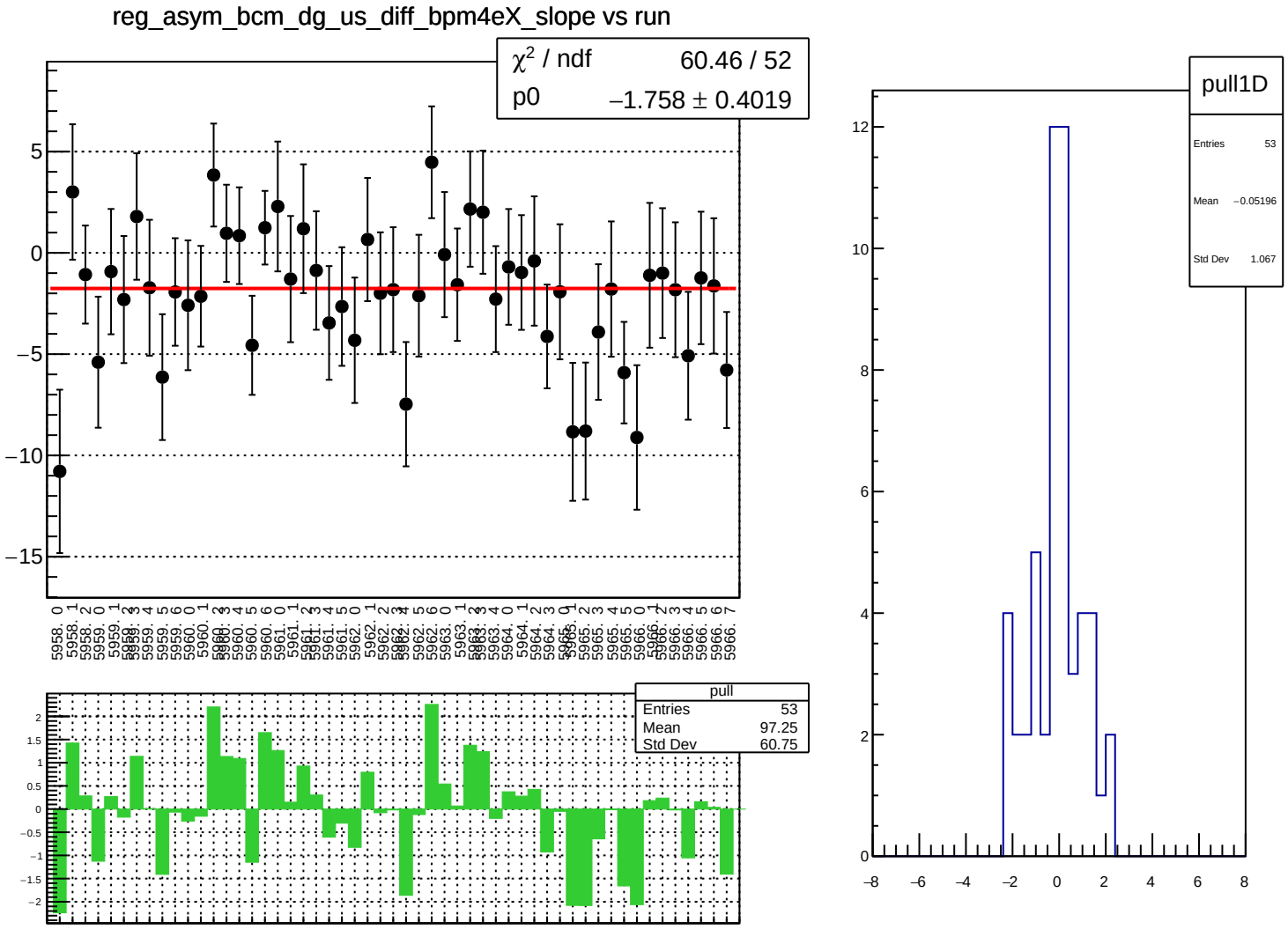

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 100.6 / 52
p0 −1.851 ± 0.1904
pull
Entries 53
Mean 90.1
Std Dev 55.32
pull1D
Entries 53
Mean −0.1308
Std Dev 1.371

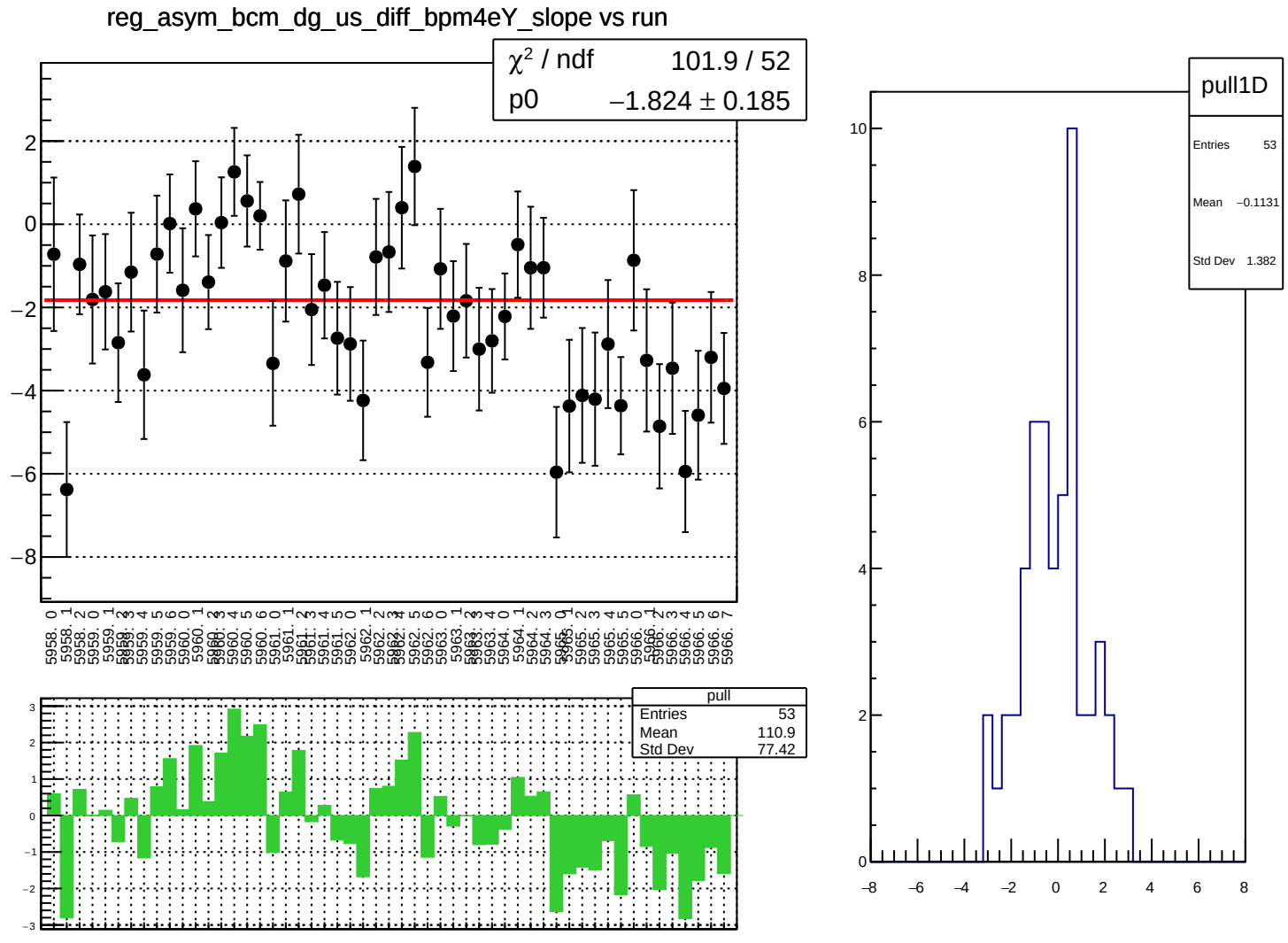

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 59.96 / 52
p0 0.1353 ± 0.01738
pull
Entries 53
Mean 99.98
Std Dev 58.84
pull1D
Entries 53
Mean 0.06445
Std Dev 1.062

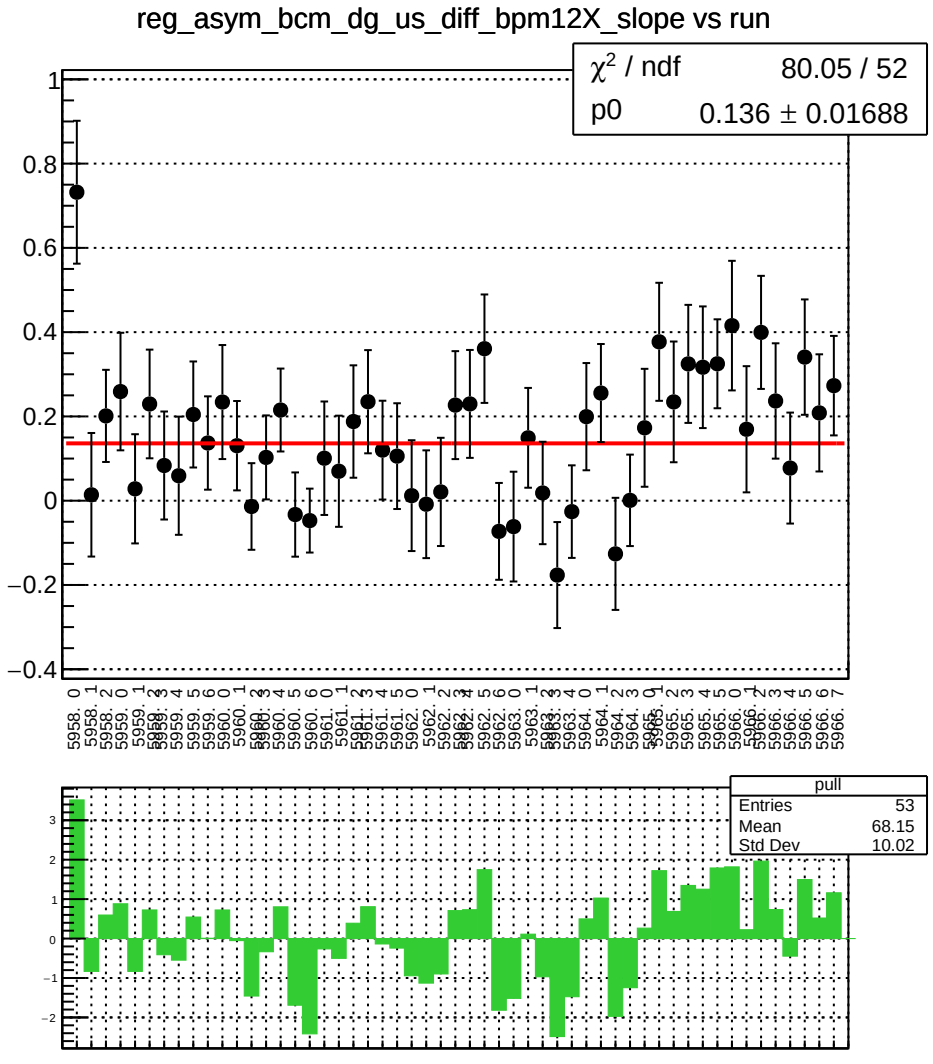

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 61.38 / 52
p0 1.705 ± 0.3793
pull
Entries 53
Mean 94.35
Std Dev 56.56

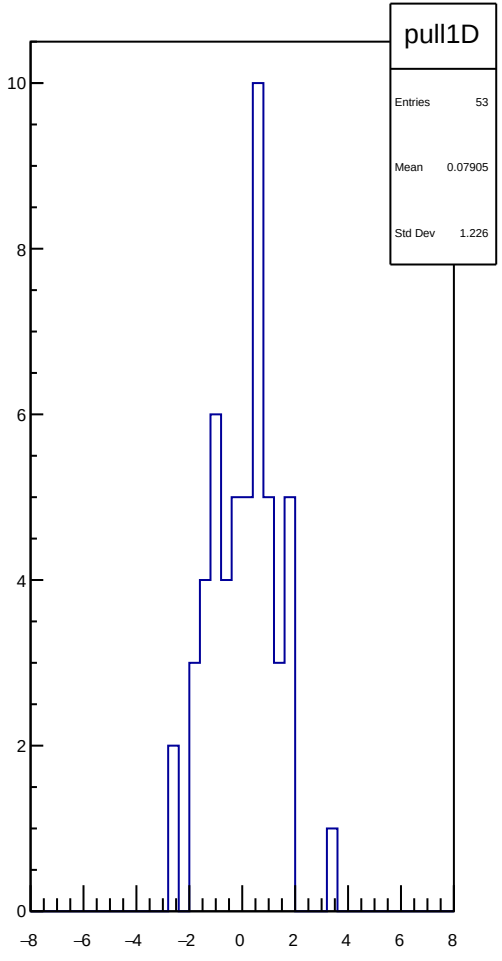

pull1D
Entries 53
Mean 0.05412
Std Dev 1.075


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 92.54 / 52
p0 1.14 ± 0.1439
pull
Entries 53
Mean 100.6
Std Dev 65.74
pull1D
Entries 53
Mean 0.1011
Std Dev 1.318


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 60.46 / 52
p0 −1.758 ± 0.4019
pull
Entries 53
Mean 97.25
Std Dev 60.75
pull1D
Entries 53
Mean −0.05196
Std Dev 1.067


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 101.9 / 52
p0 −1.824 ± 0.185
pull
Entries 53
Mean 110.9
Std Dev 77.42
pull1D
Entries 53
Mean −0.1131
Std Dev 1.382


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 80.05 / 52
p0 0.136 ± 0.01688
pull
Entries 53
Mean 68.15
Std Dev 10.02


pull1D
Entries 53
Mean 0.07905
Std Dev 1.226