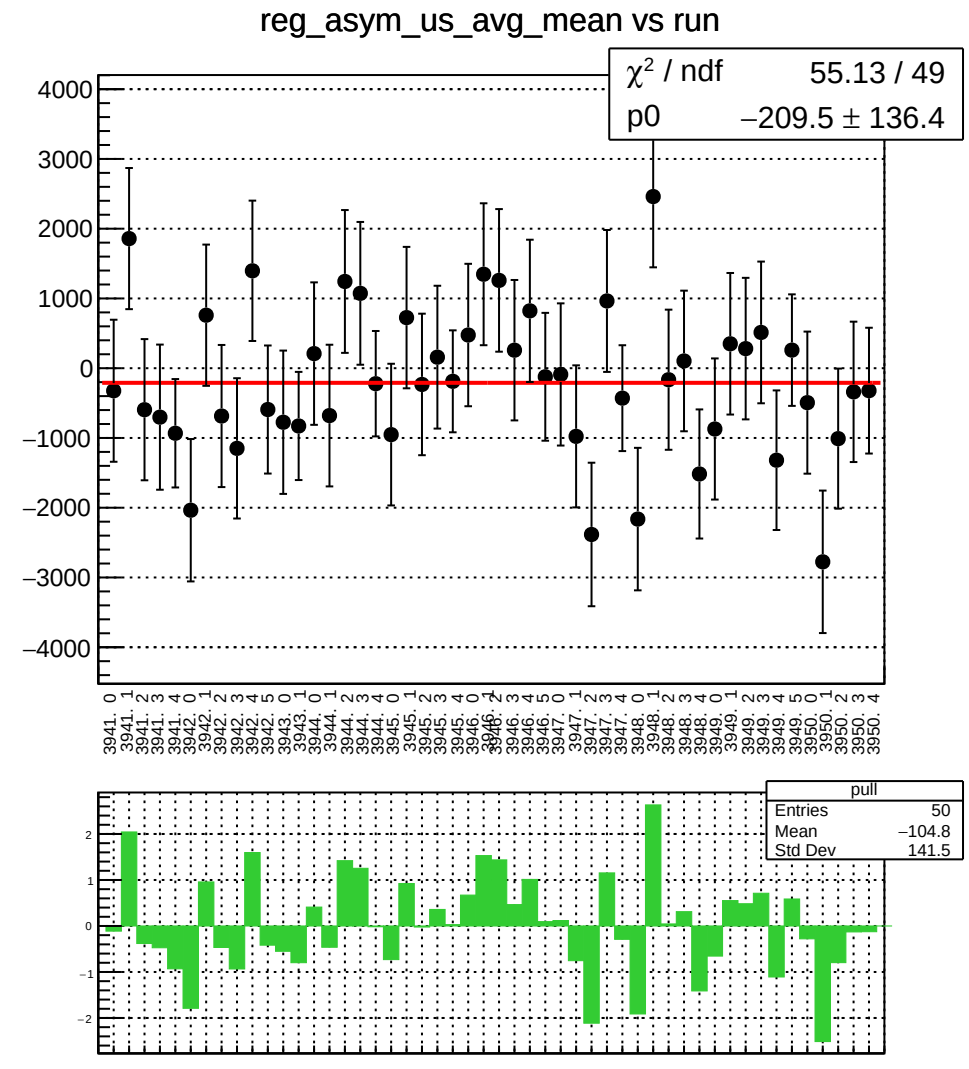
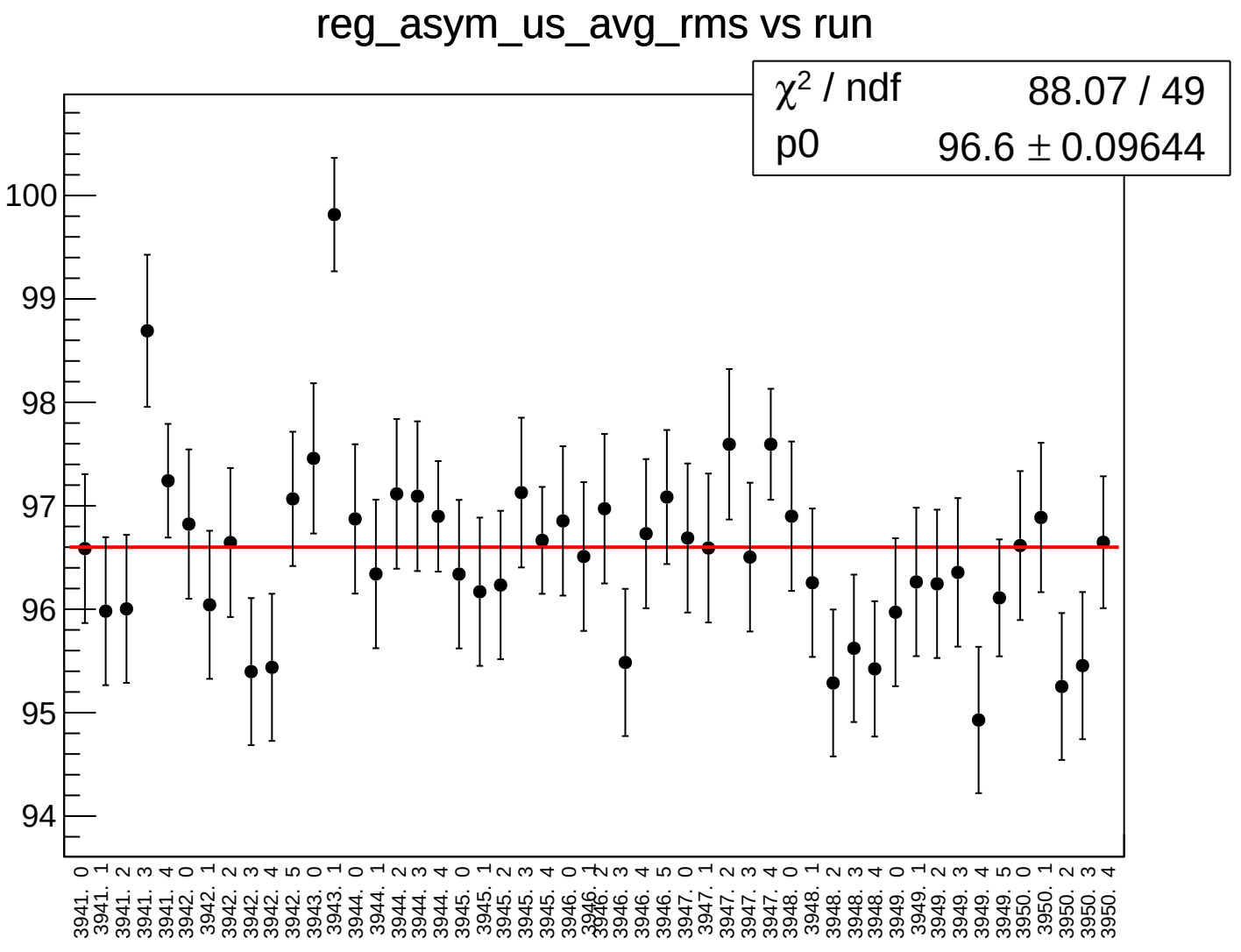
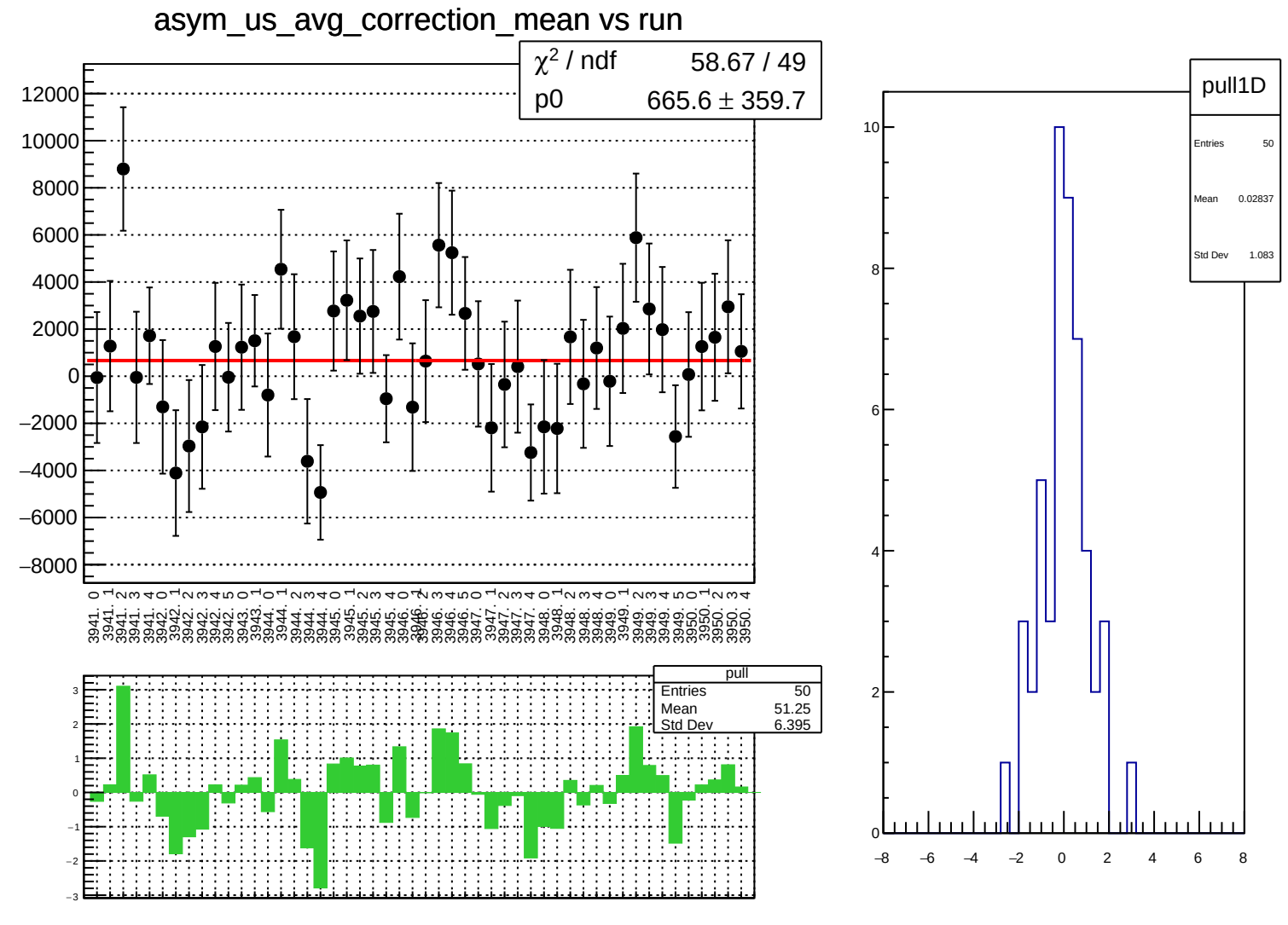
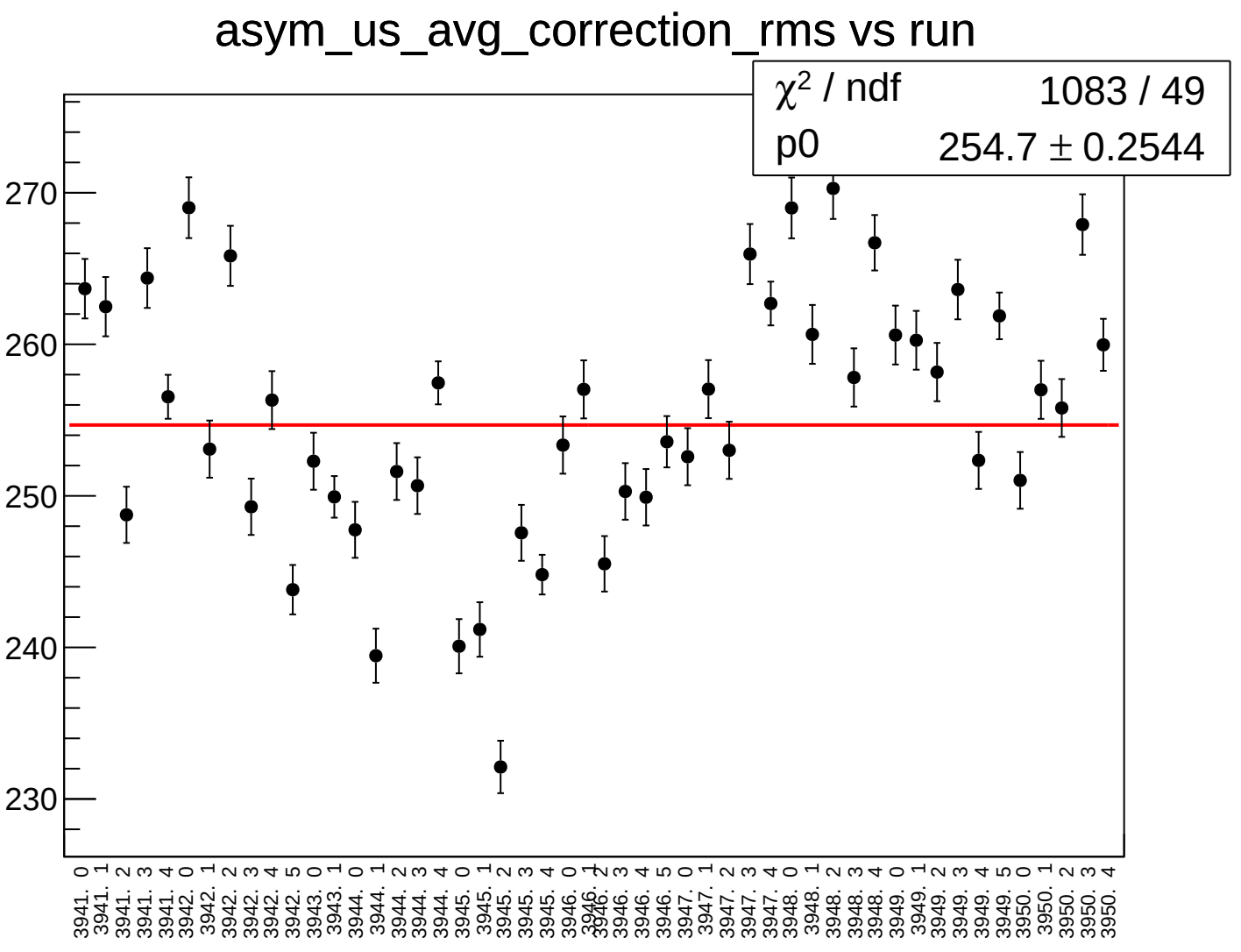
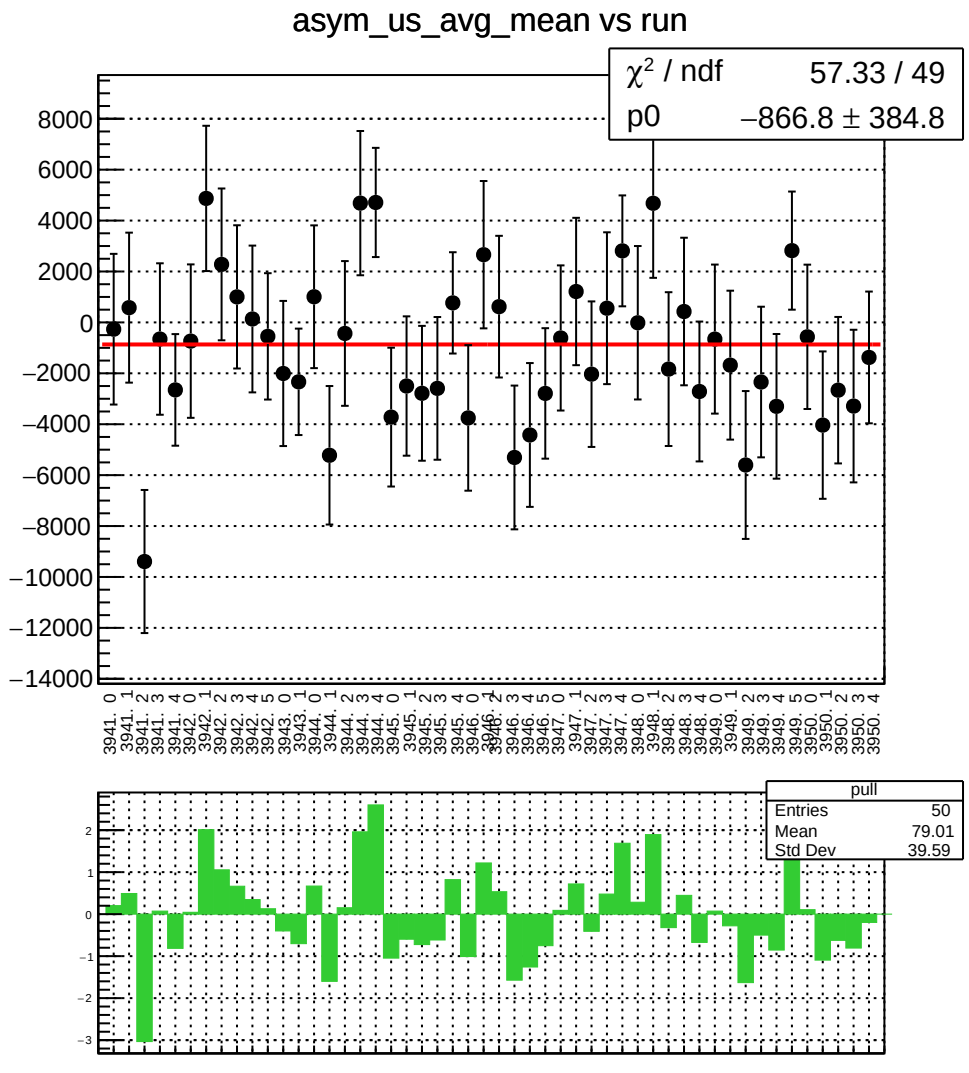
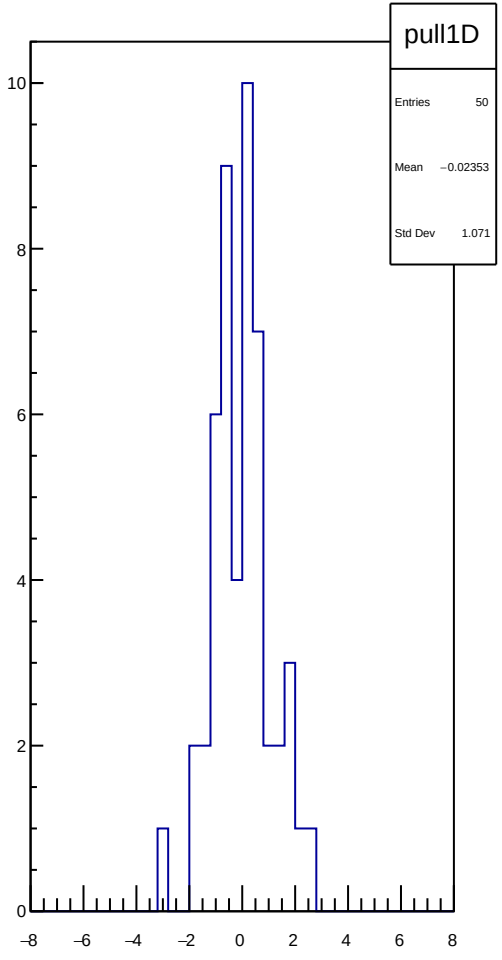

reg_asym_us_avg_mean vs run
χ² / ndf 55.13 / 49
p0 −209.5 ± 136.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −104.8
Std Dev 141.5
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.01242
Std Dev 1.05
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

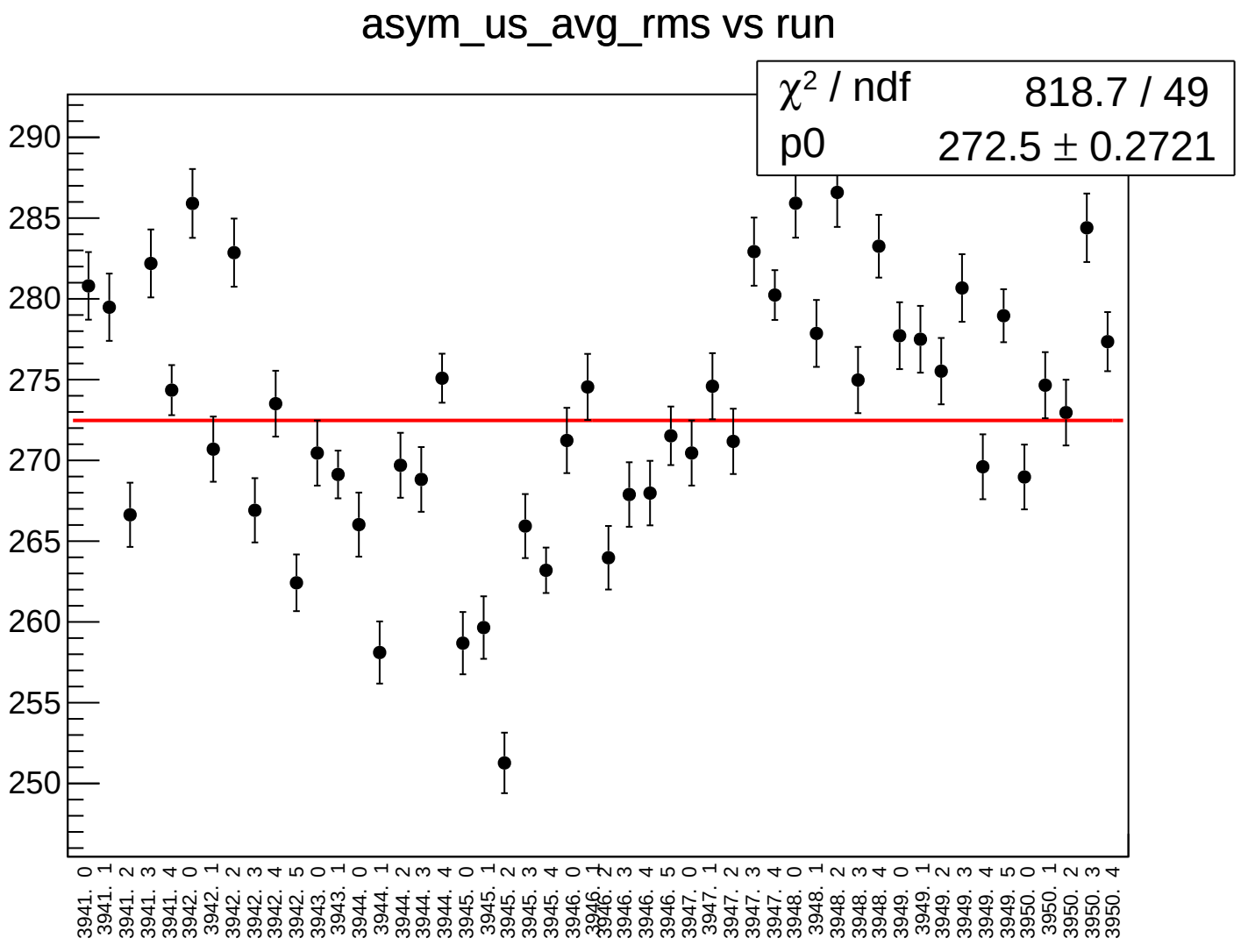

reg_asym_us_avg_rms vs run
χ² / ndf 88.07 / 49
p0 96.6 ± 0.09644
100
99
98
97
96
95
94
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

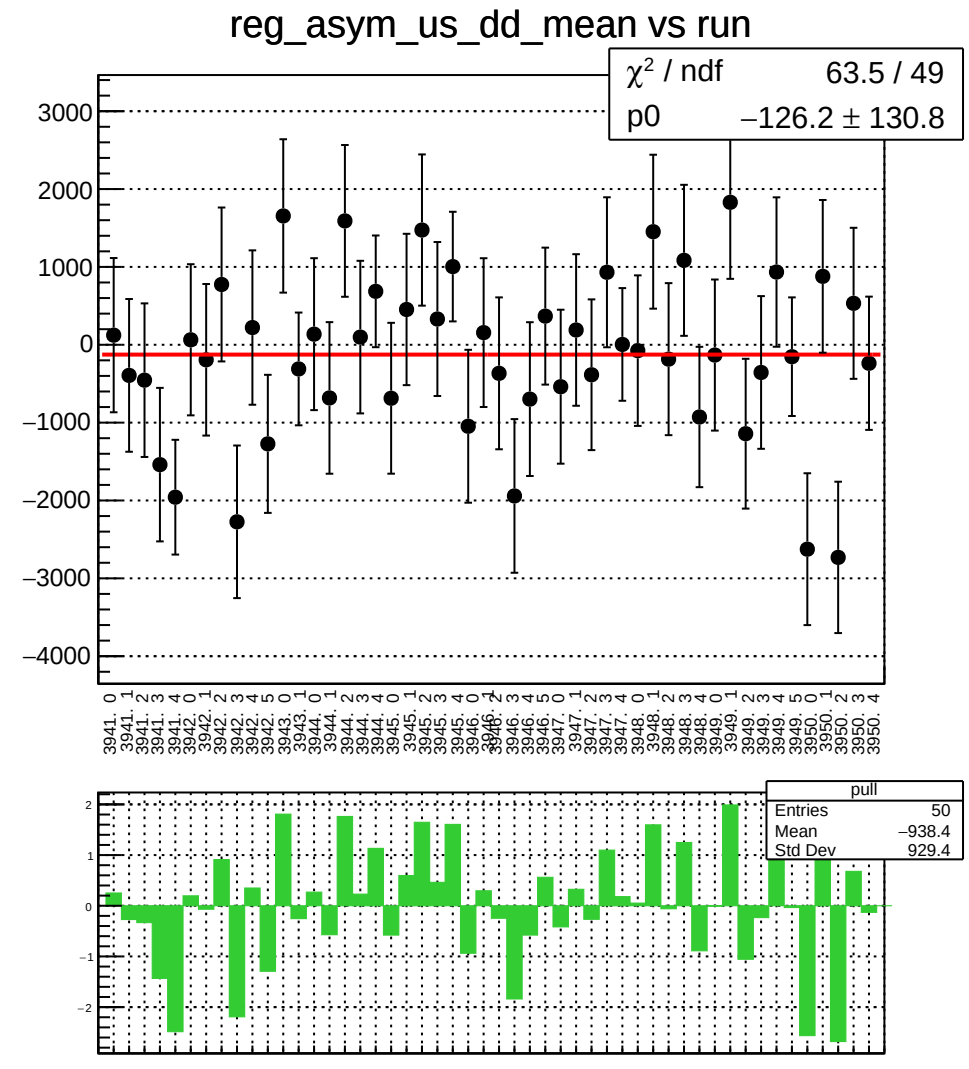

asym_us_avg_correction_mean vs run
χ² / ndf 58.67 / 49
p0 665.6 ± 359.7
pull
Entries 50
Mean 51.25
Std Dev 6.395
pull1D
Entries 50
Mean 0.02837
Std Dev 1.083

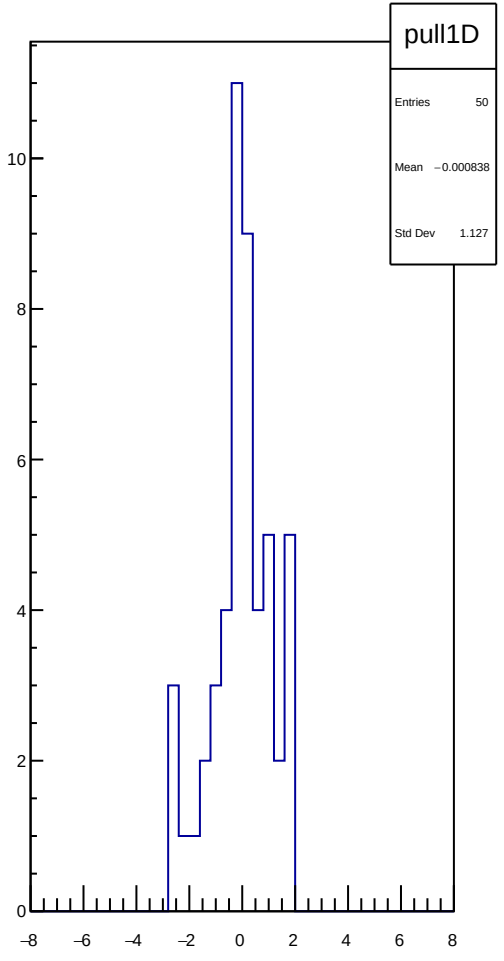

asym_us_avg_correction_rms vs run
χ² / ndf 1083 / 49
p0 254.7 ± 0.2544
270
260
250
240
230
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

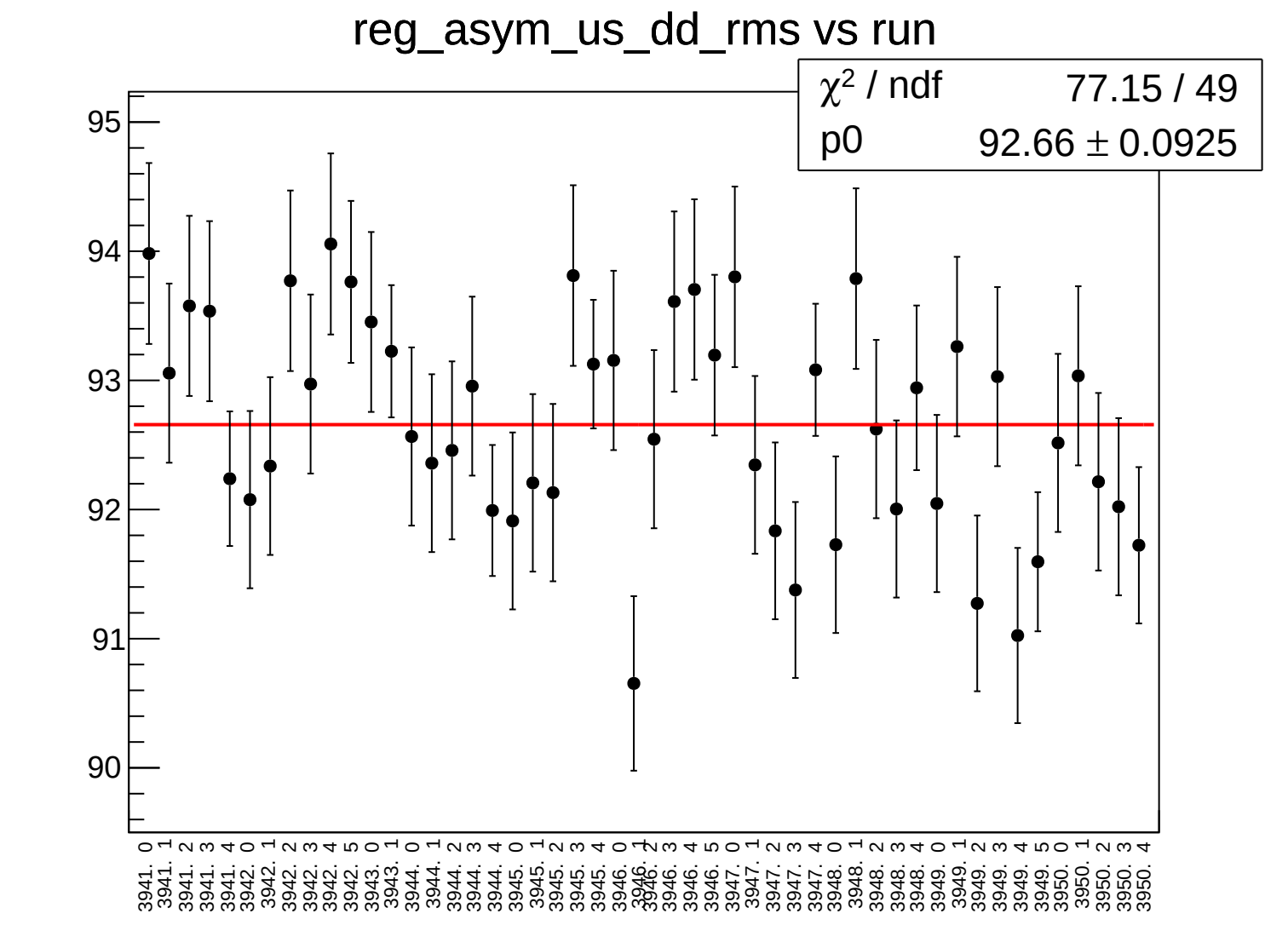

asym_us_avg_mean vs run
χ² / ndf 57.33 / 49
p0 −866.8 ± 384.8
pull
Entries 50
Mean 79.01
Std Dev 39.59

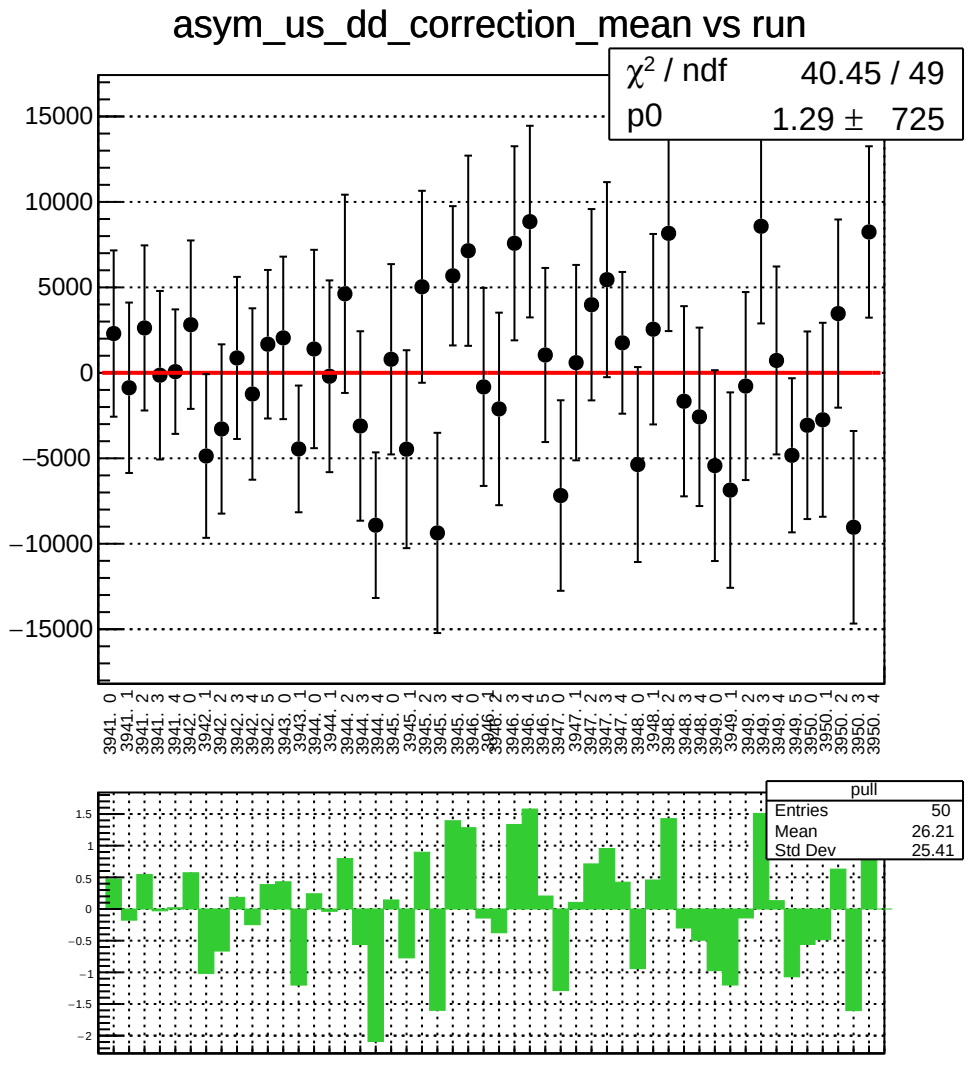

pull1D
Entries 50
Mean −0.02353
Std Dev 1.071

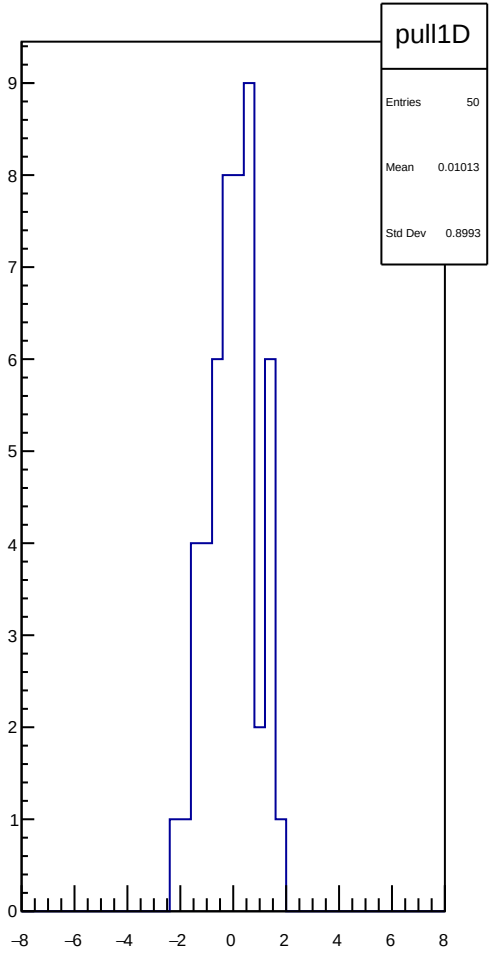

asym_us_avg_rms vs run
χ² / ndf 818.7 / 49
p0 272.5 ± 0.2721
290
285
280
275
270
265
260
255
250
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

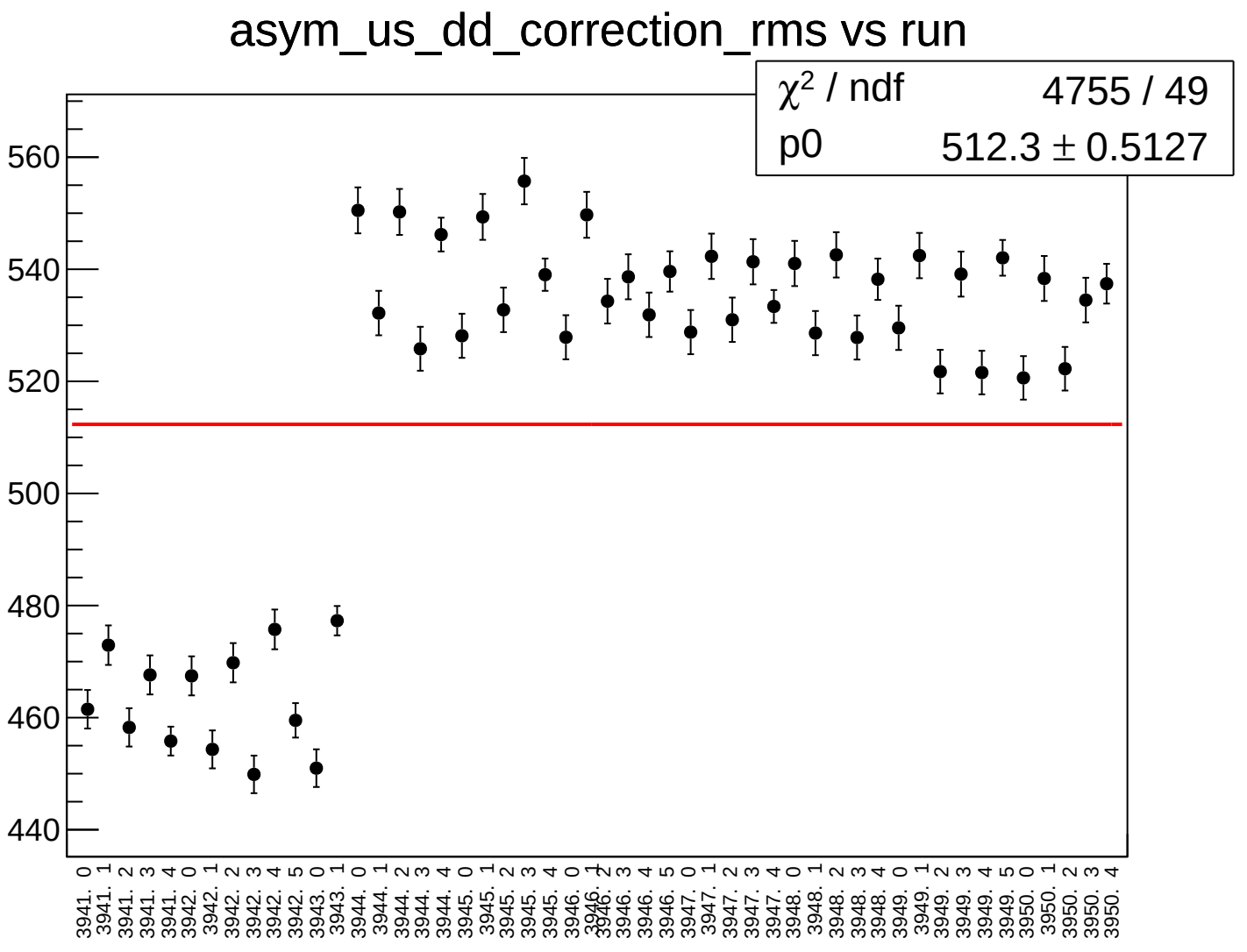

reg_asym_us_dd_mean vs run
χ² / ndf 63.5 / 49
p0 −126.2 ± 130.8
pull
Entries 50
Mean −938.4
Std Dev 929.4

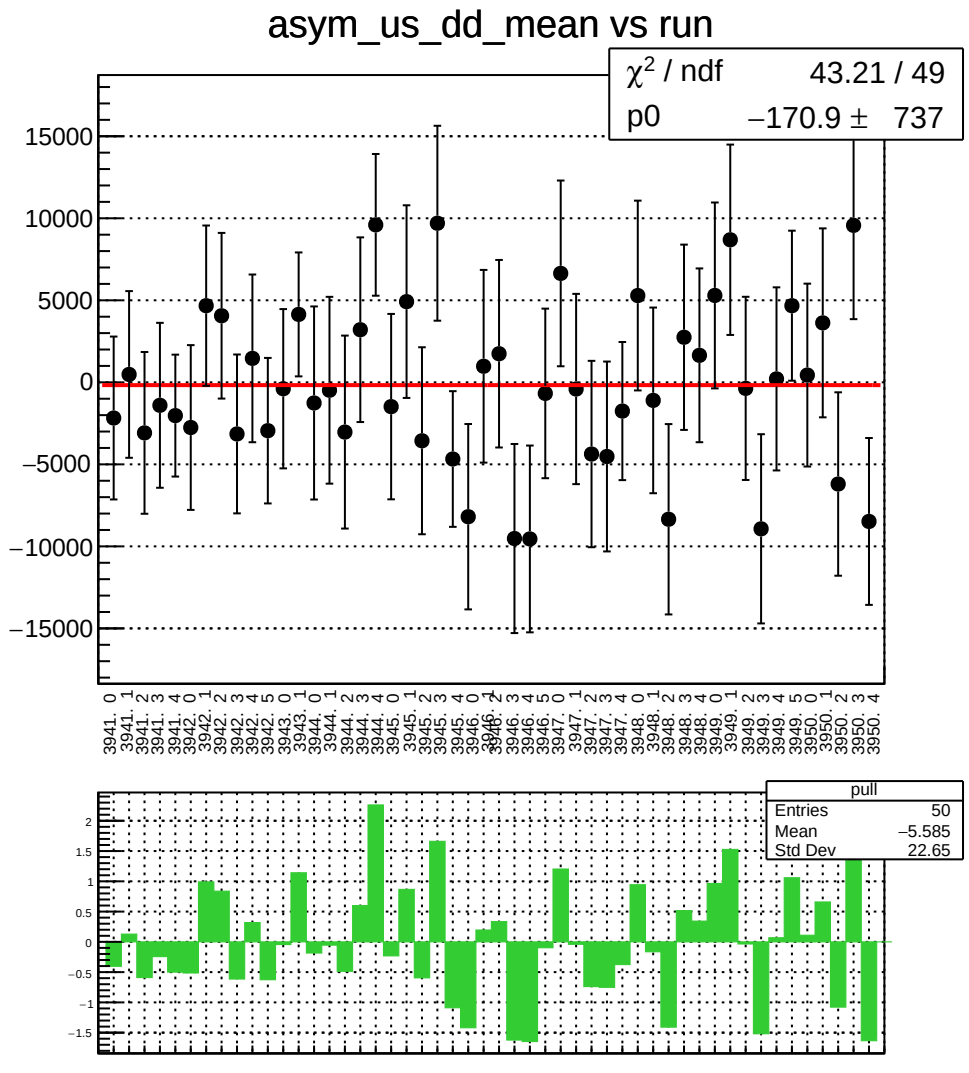

pull1D
Entries 50
Mean −0.000838
Std Dev 1.127

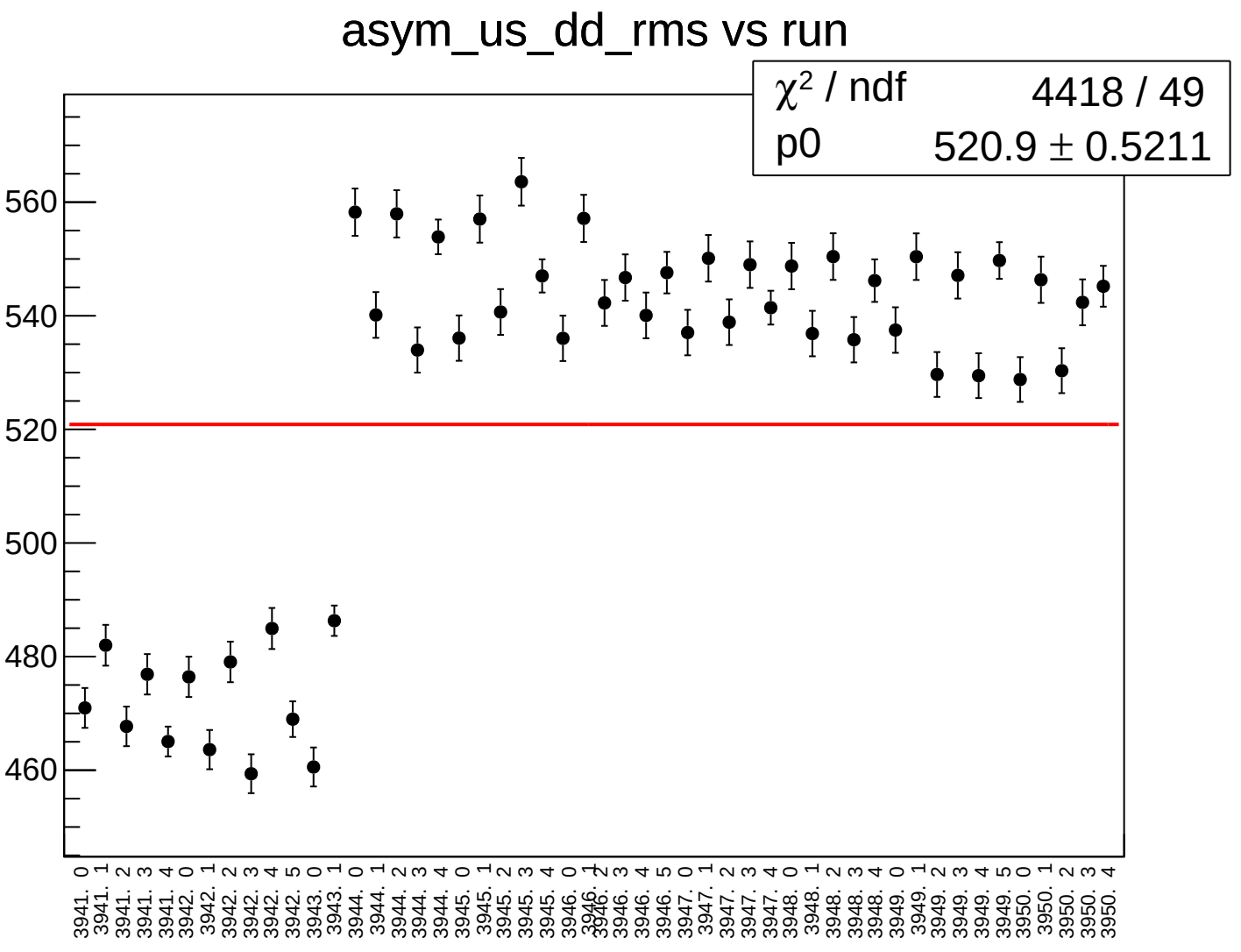

reg_asym_us_dd_rms vs run
χ² / ndf 77.15 / 49
p0 92.66 ± 0.0925
95
94
93
92
91
90
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_us_dd_correction_mean vs run
χ² / ndf 40.45 / 49
p0 1.29 ± 725
pull
Entries 50
Mean 26.21
Std Dev 25.41


pull1D
Entries 50
Mean 0.01013
Std Dev 0.8993


asym_us_dd_correction_rms vs run
χ² / ndf 4755 / 49
p0 512.3 ± 0.5127
560
540
520
500
480
460
440
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_us_dd_mean vs run
χ² / ndf 43.21 / 49
p0 −170.9 ± 737
15000
10000
5000
0
−5000
−10000
−15000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −5.585
Std Dev 22.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.005544
Std Dev 0.9296
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_rms vs run
χ² / ndf 4418 / 49
p0 520.9 ± 0.5211
560
540
520
500
480
460
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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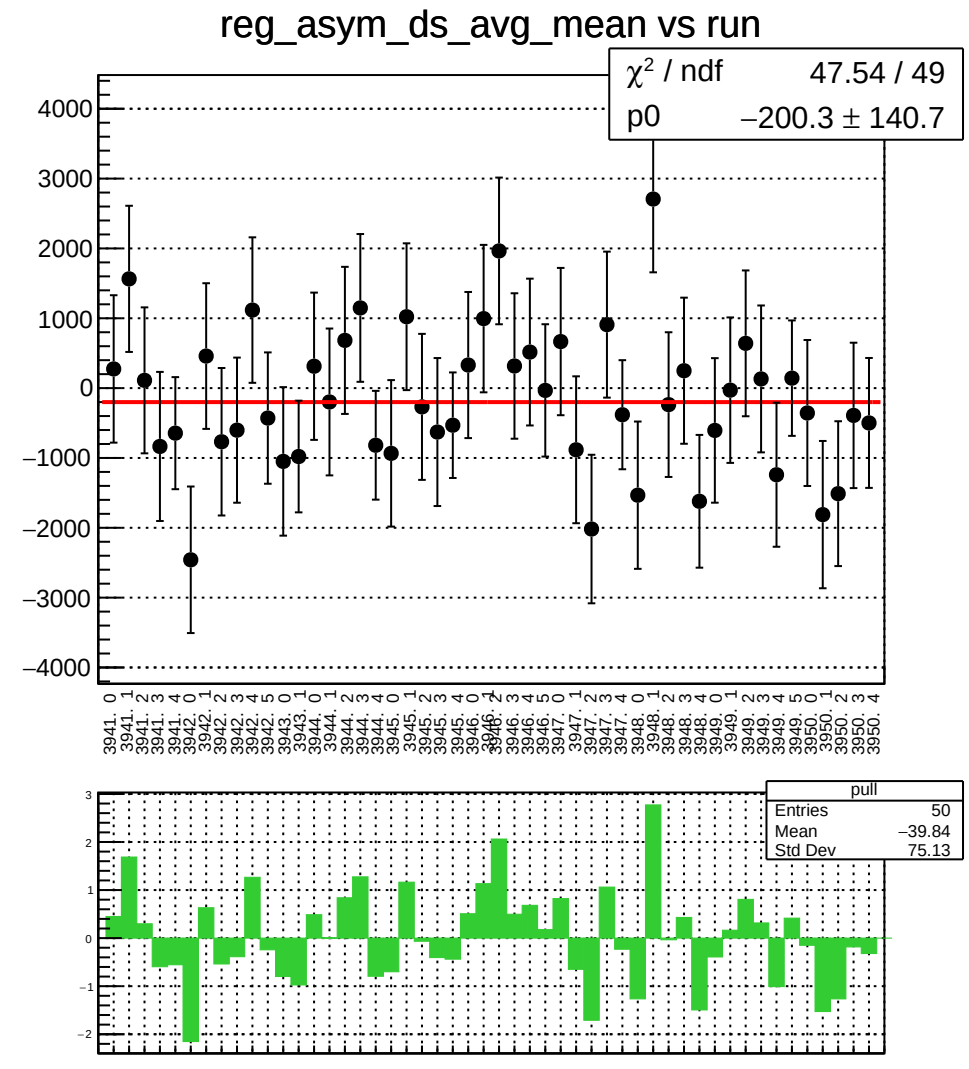
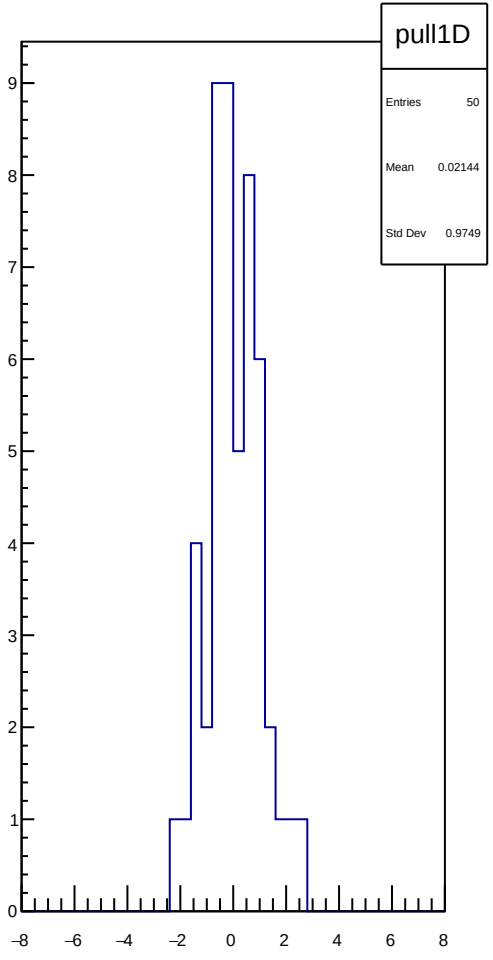
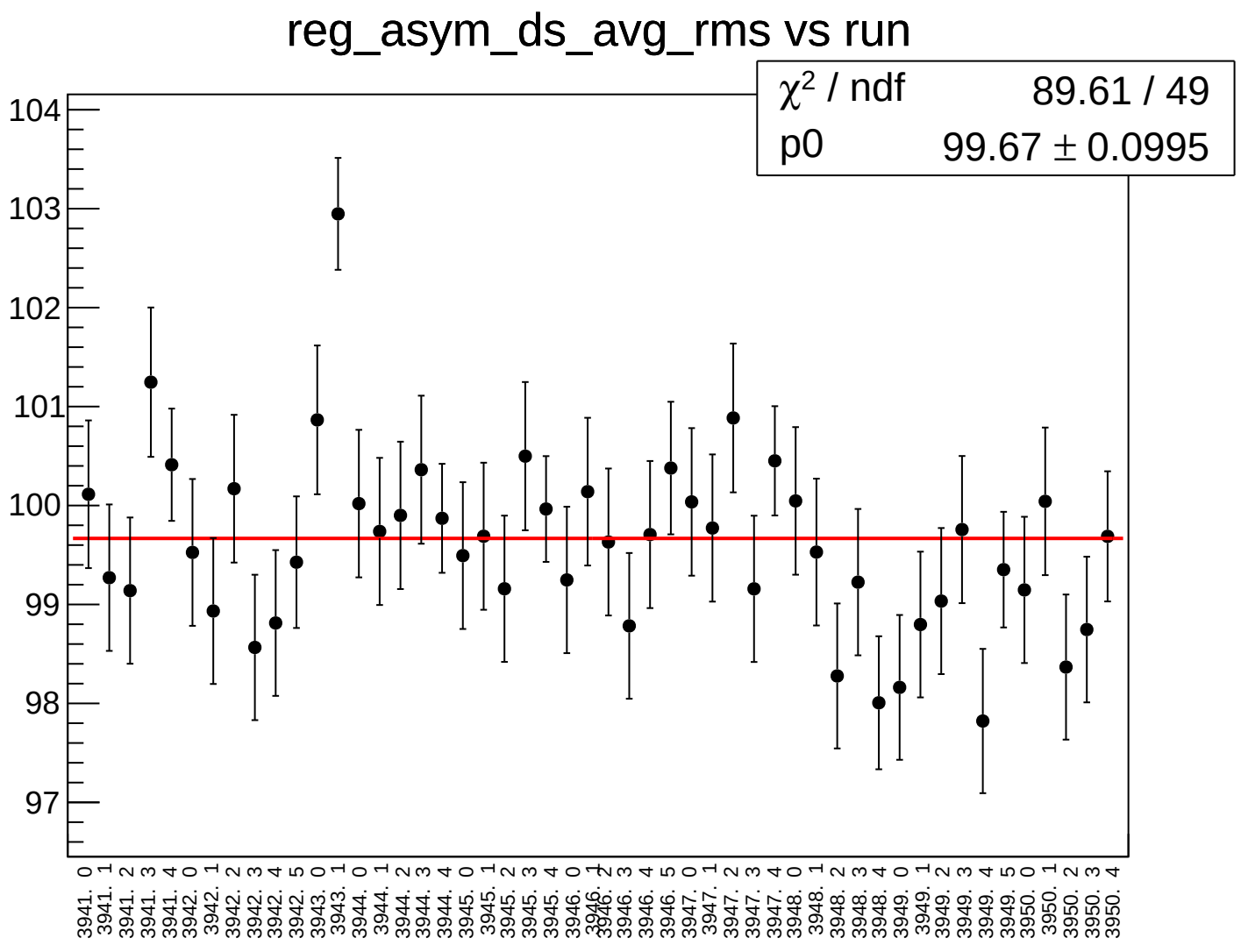
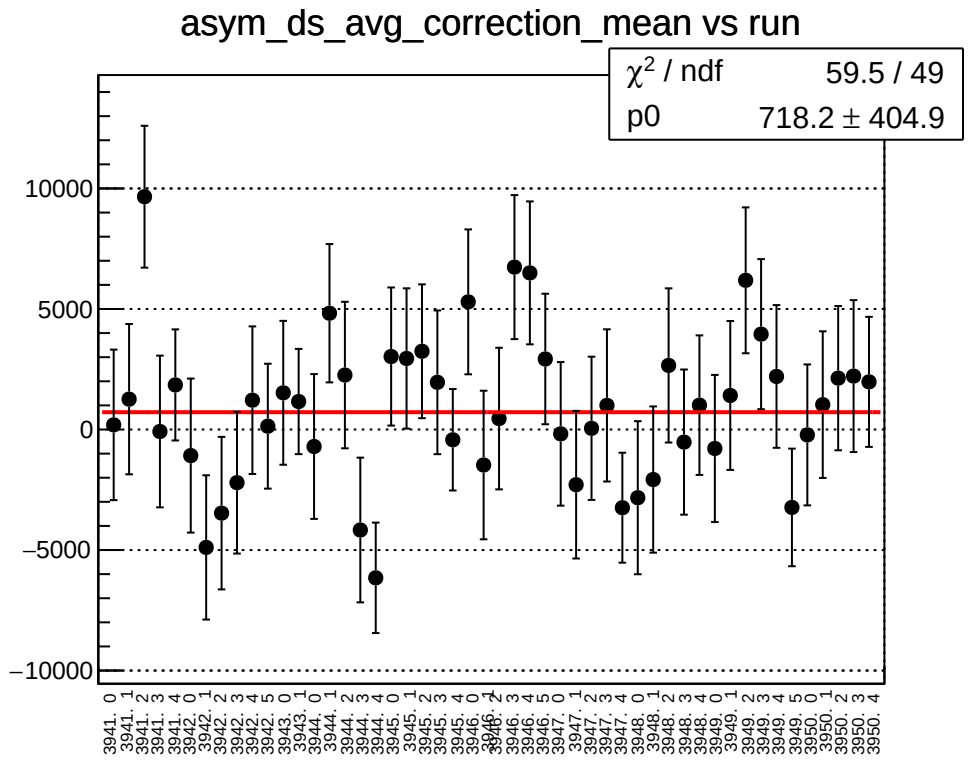
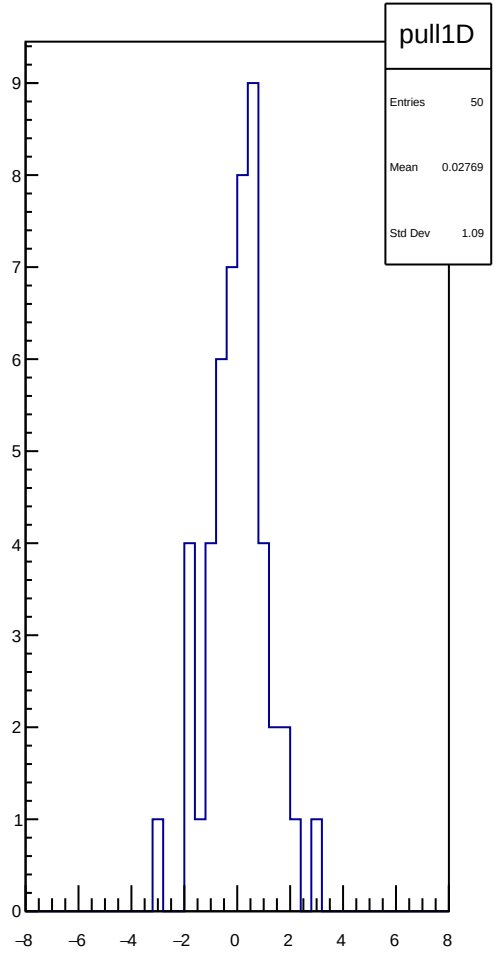
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

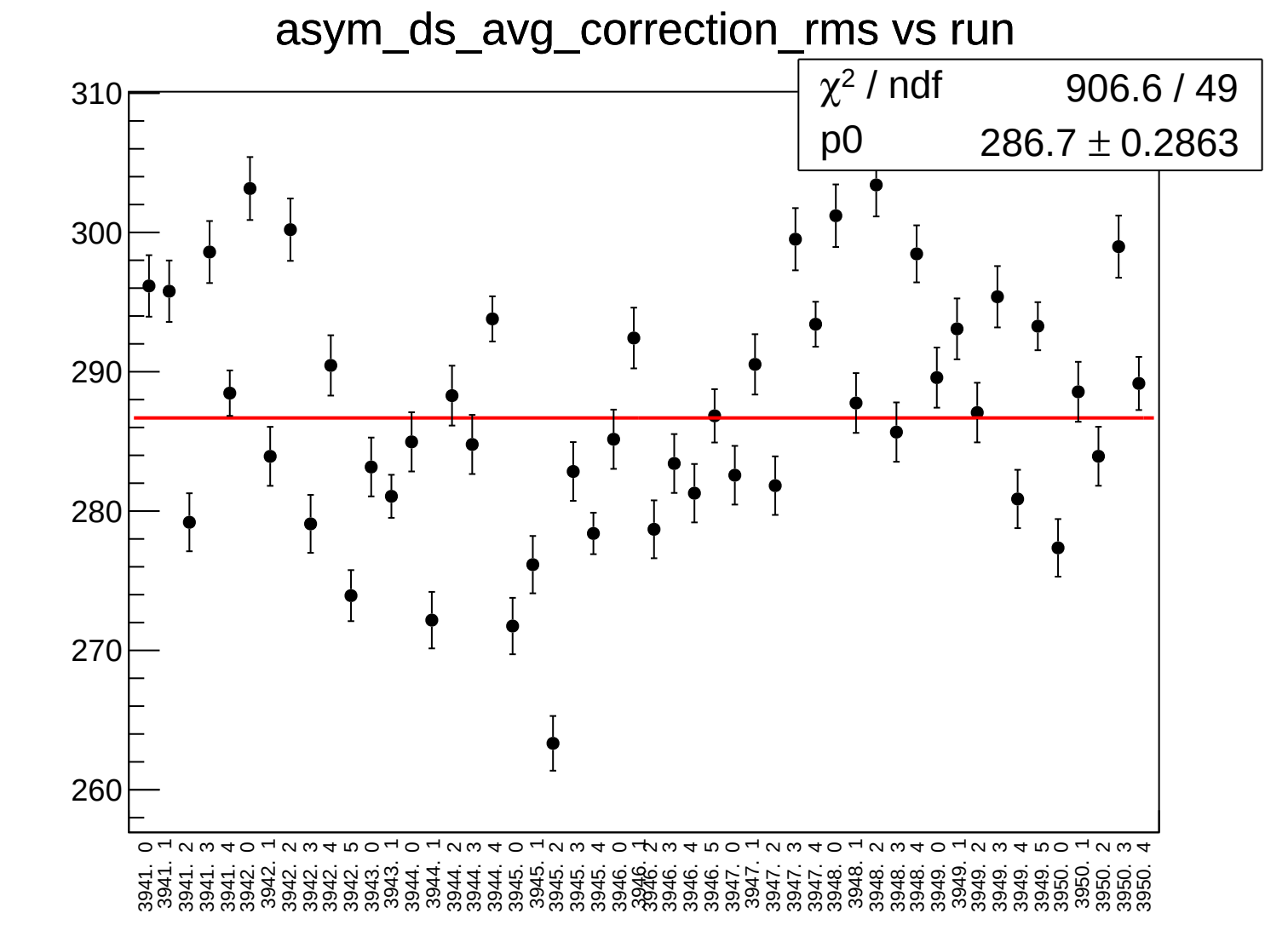

reg_asym_ds_avg_mean vs run
χ² / ndf 47.54 / 49
p0 −200.3 ± 140.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −39.84
Std Dev 75.13
3
2
1
0
−1
−2

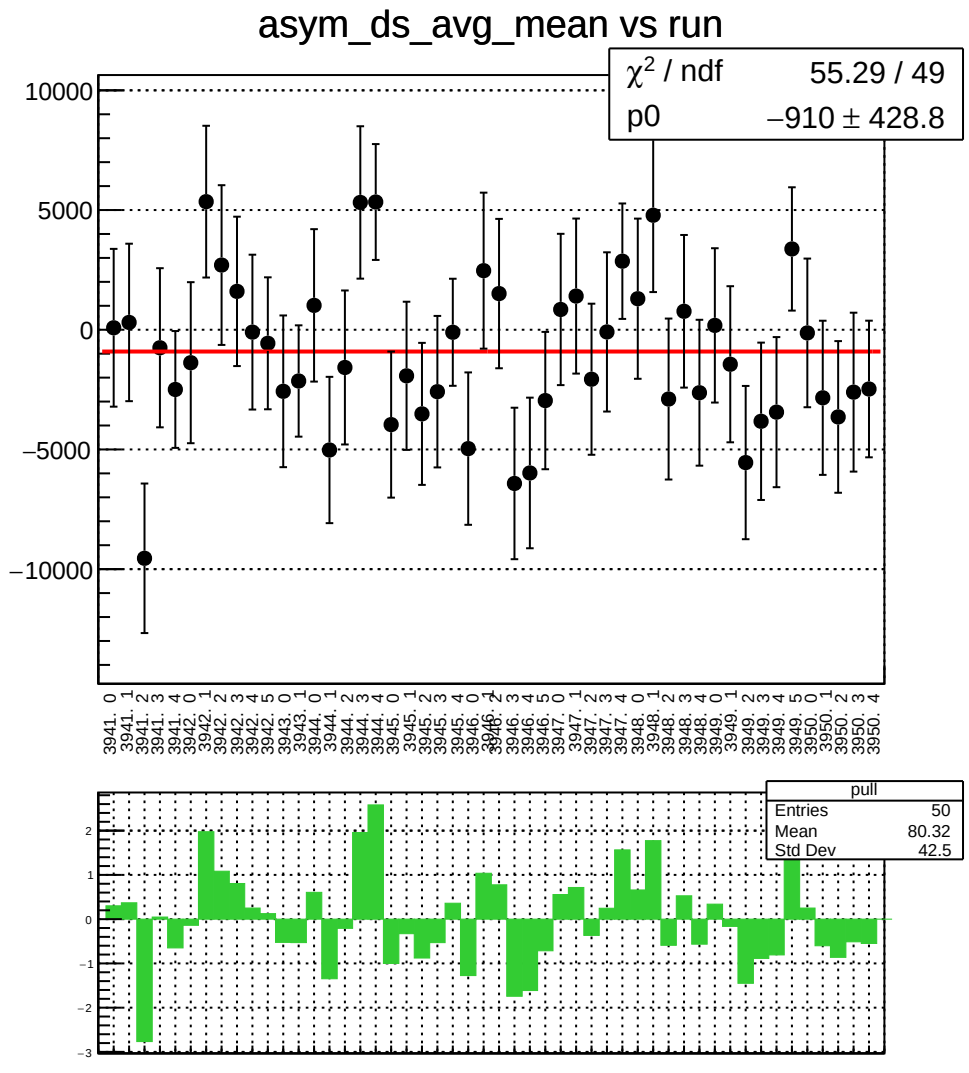

pull1D
Entries 50
Mean 0.02144
Std Dev 0.9749
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_avg_rms vs run
χ² / ndf 89.61 / 49
p0 99.67 ± 0.0995
104
103
102
101
100
99
98
97
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_ds_avg_correction_mean vs run
χ² / ndf 59.5 / 49
p0 718.2 ± 404.9
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 50.56
Std Dev 8.673


pull1D
Entries 50
Mean 0.02769
Std Dev 1.09


asym_ds_avg_correction_rms vs run
χ² / ndf 906.6 / 49
p0 286.7 ± 0.2863
310
300
290
280
270
260
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_ds_avg_mean vs run
χ² / ndf 55.29 / 49
p0 −910 ± 428.8
10000
5000
0
−5000
−10000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
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3946. 1
3946. 2
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3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
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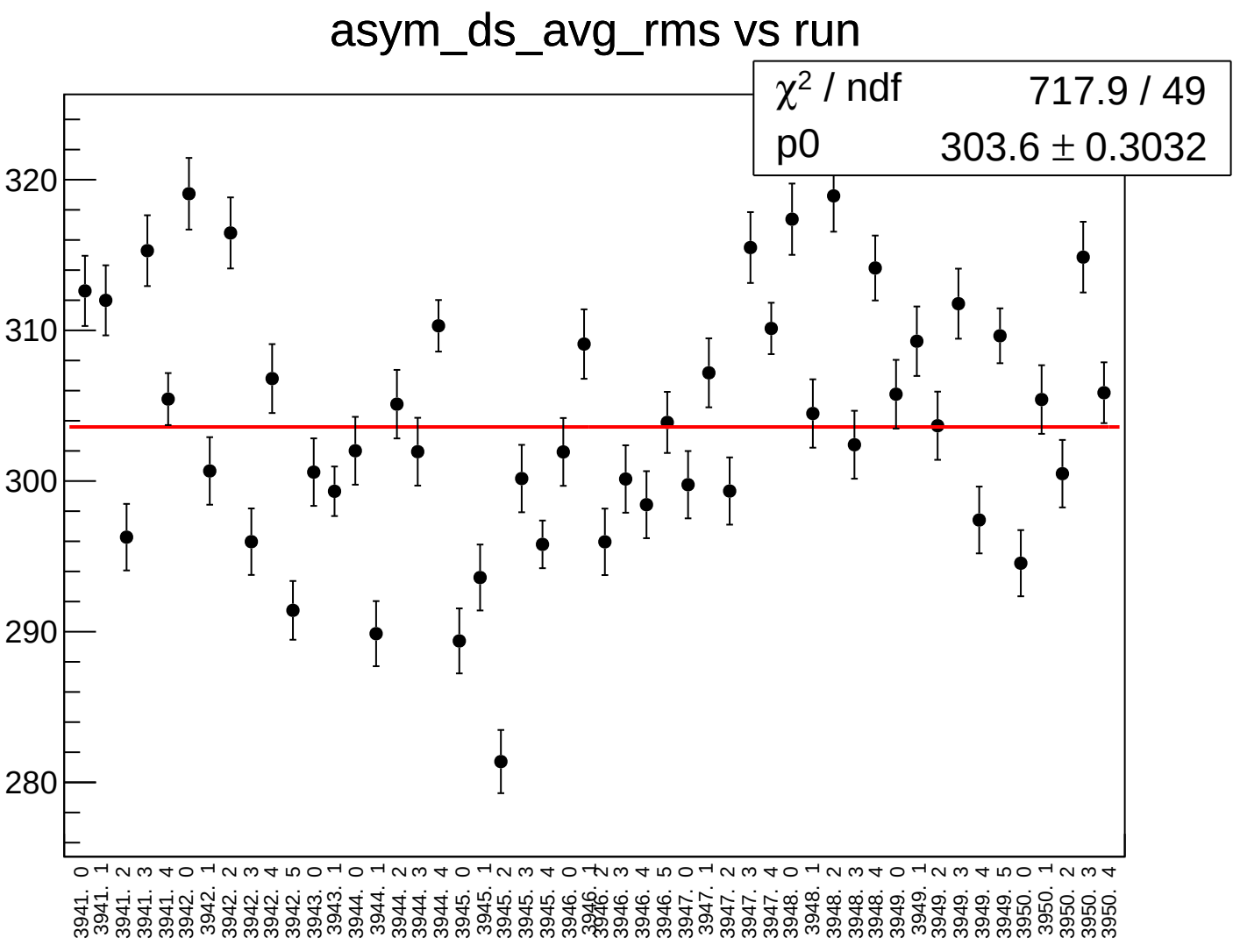
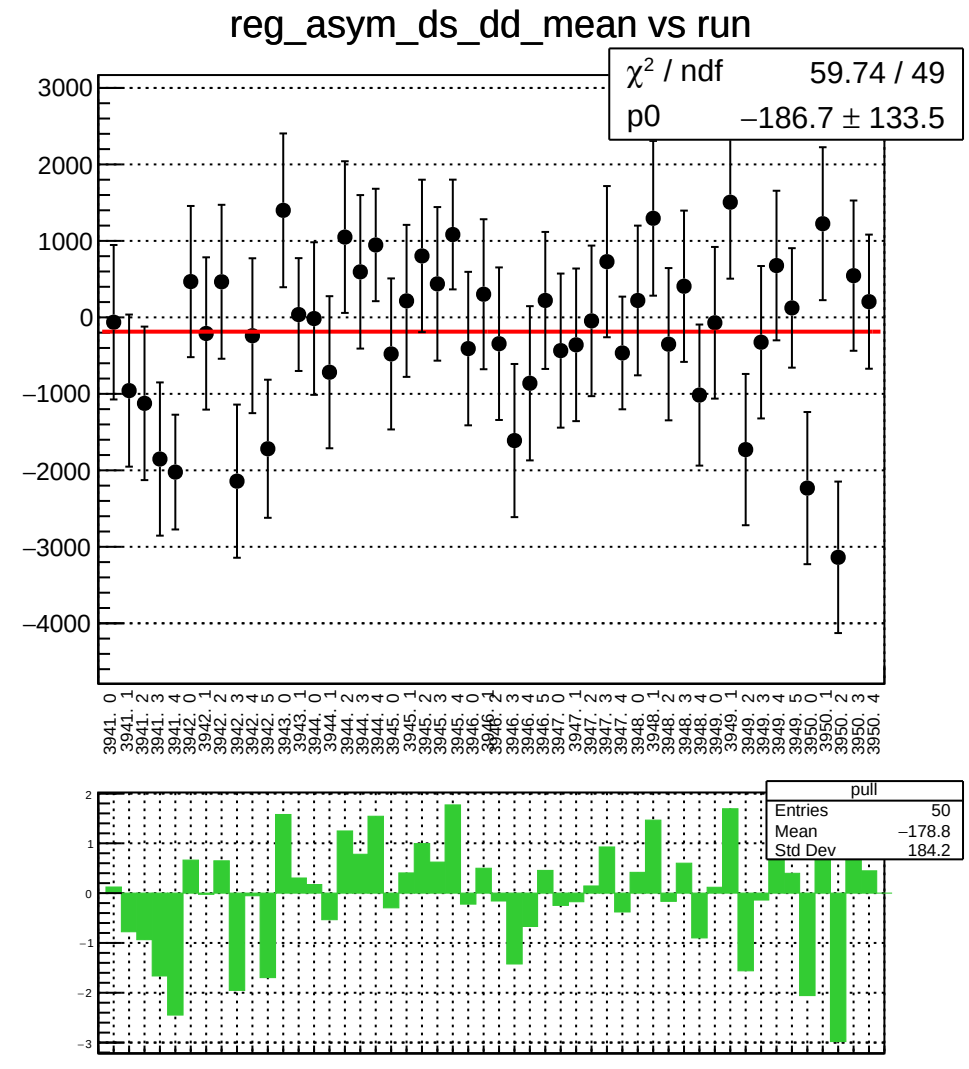
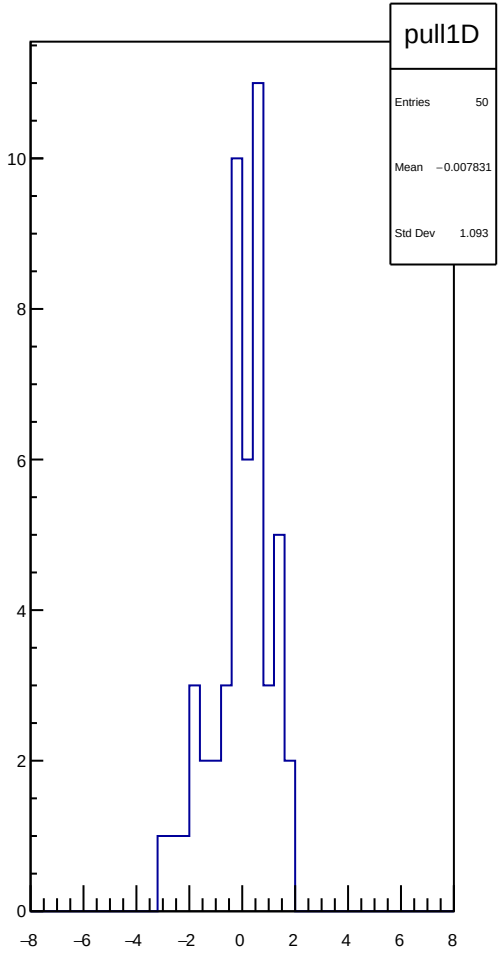
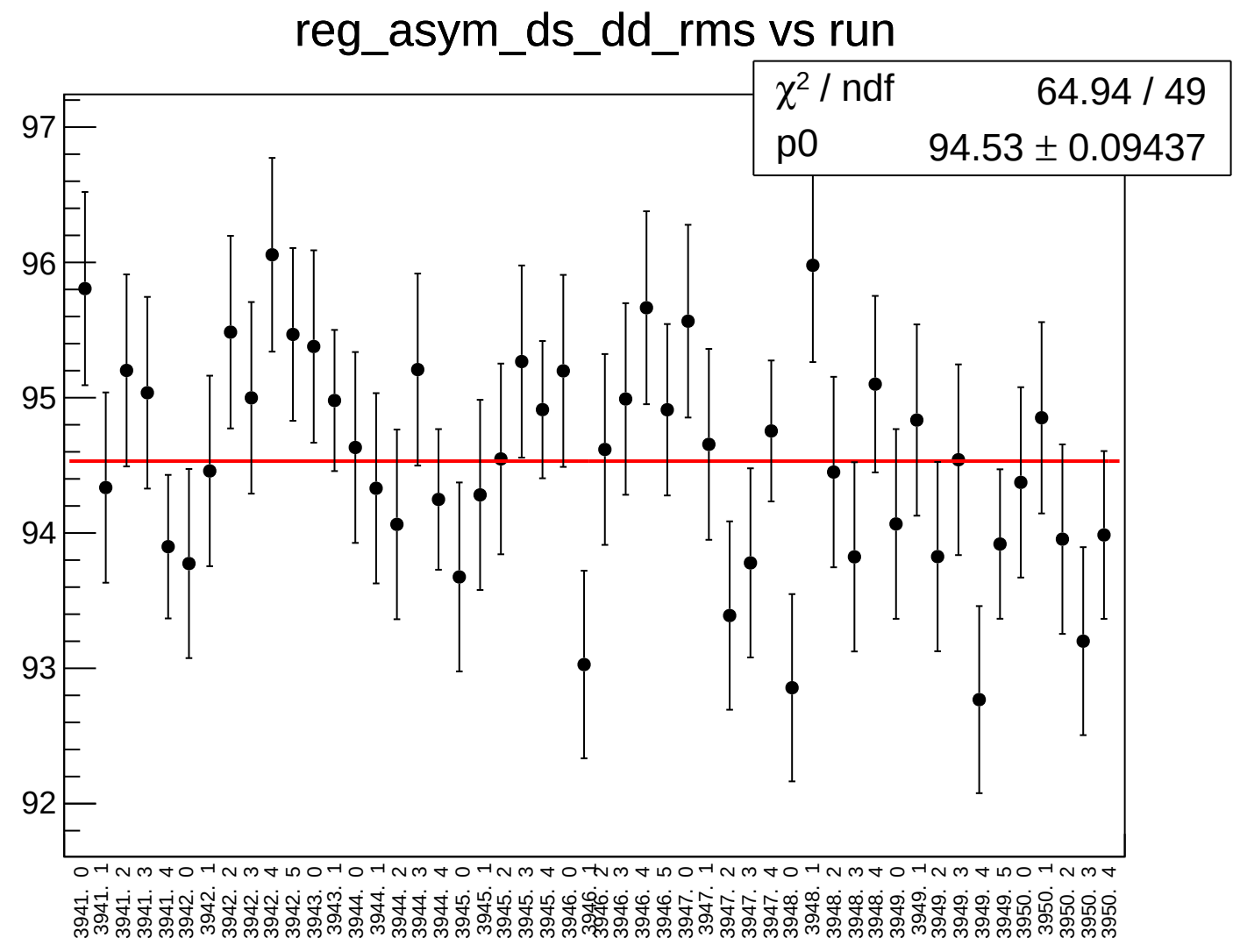
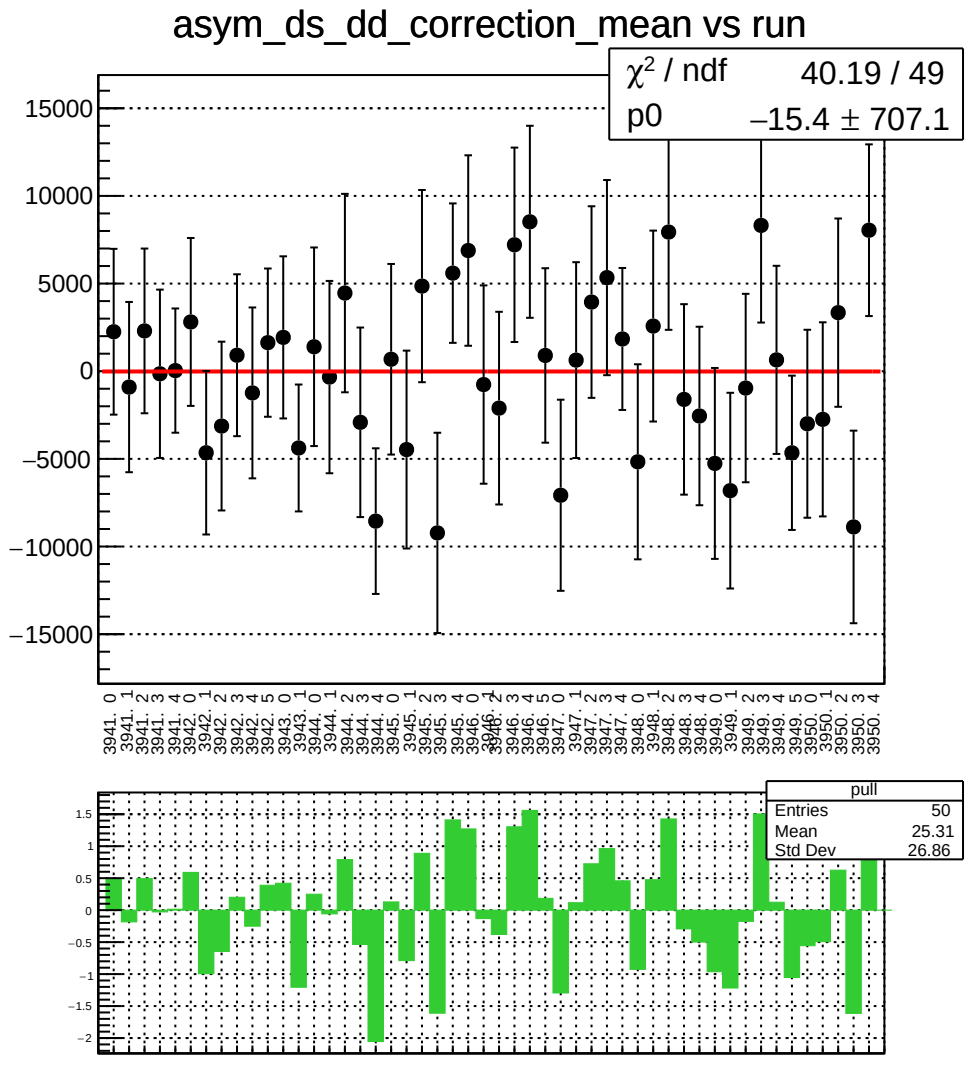
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 80.32
Std Dev 42.5
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean −0.02043
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

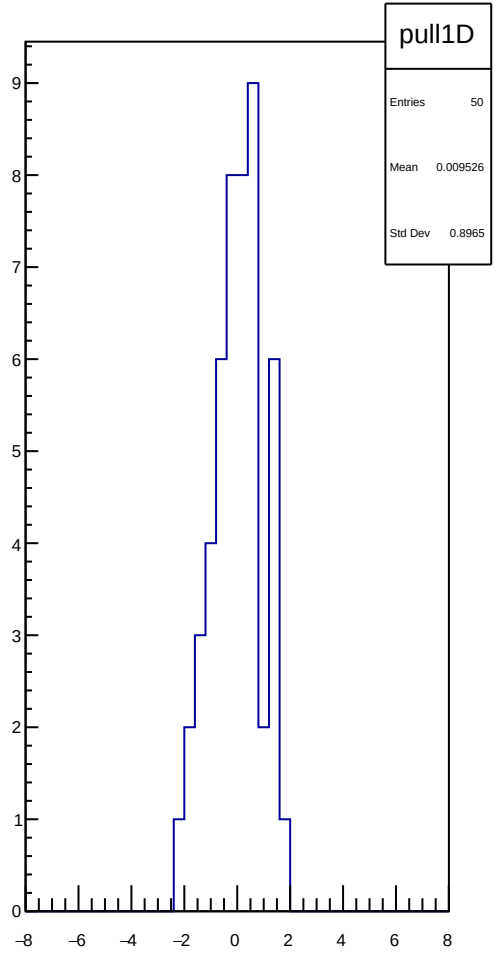

asym_ds_avg_rms vs run
χ² / ndf 717.9 / 49
p0 303.6 ± 0.3032
320
310
300
290
280
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

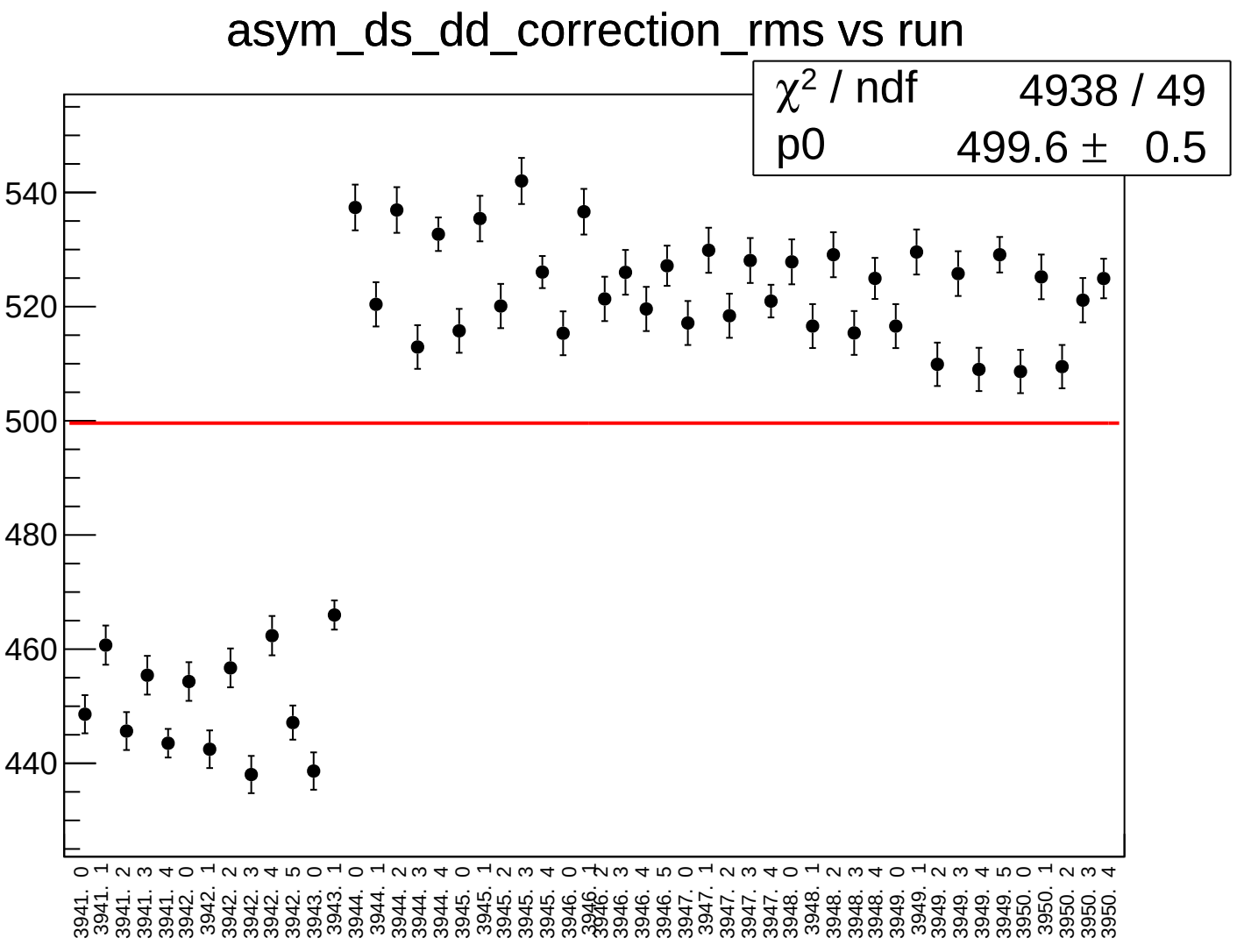

reg_asym_ds_dd_mean vs run
χ² / ndf 59.74 / 49
p0 −186.7 ± 133.5
pull
Entries 50
Mean −178.8
Std Dev 184.2

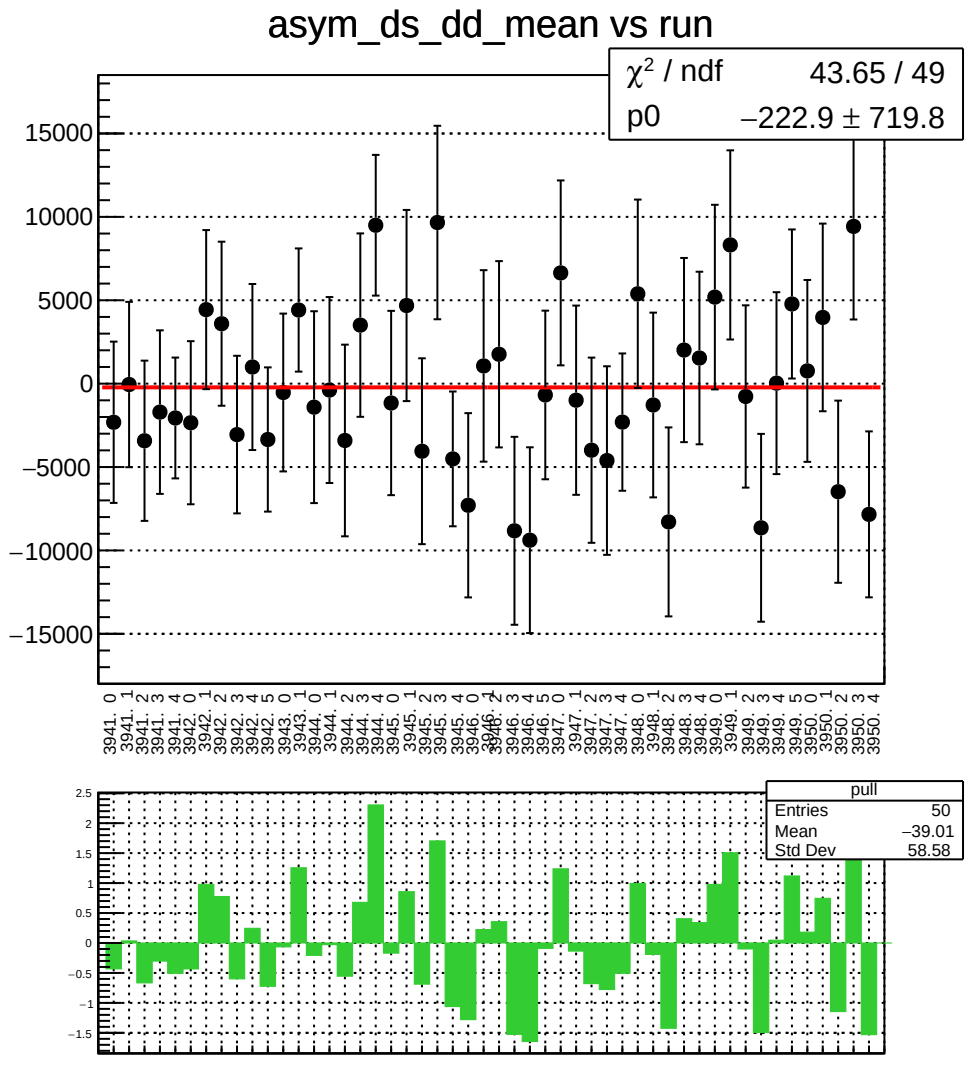

pull1D
Entries 50
Mean −0.007831
Std Dev 1.093

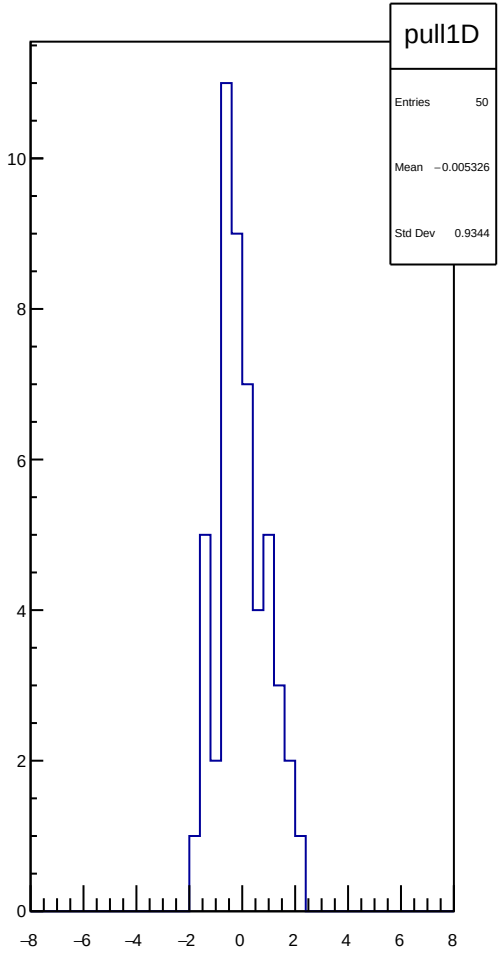

reg_asym_ds_dd_rms vs run
χ² / ndf 64.94 / 49
p0 94.53 ± 0.09437
97
96
95
94
93
92
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

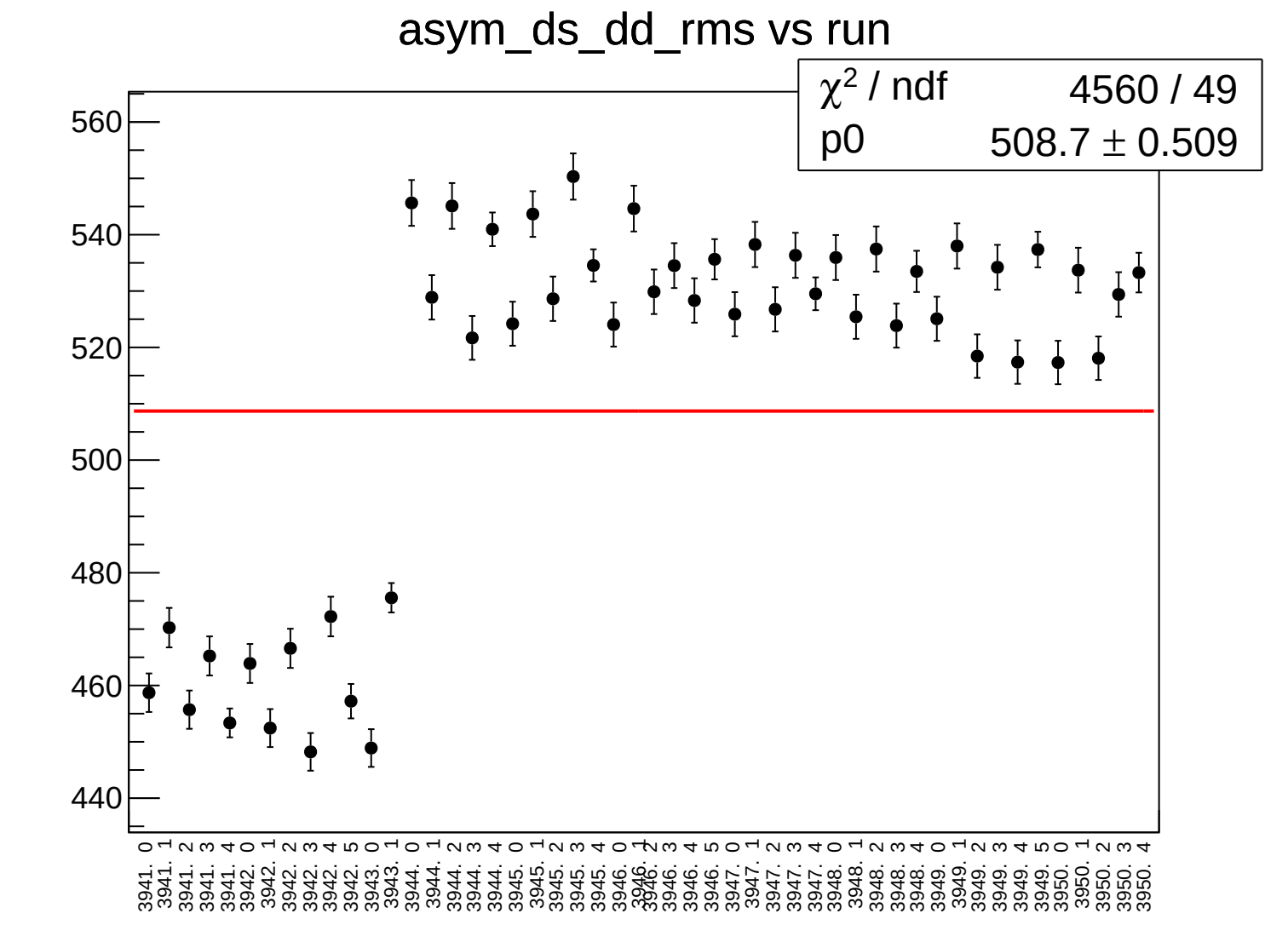

asym_ds_dd_correction_mean vs run
χ² / ndf 40.19 / 49
p0 −15.4 ± 707.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 50
Mean 25.31
Std Dev 26.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2

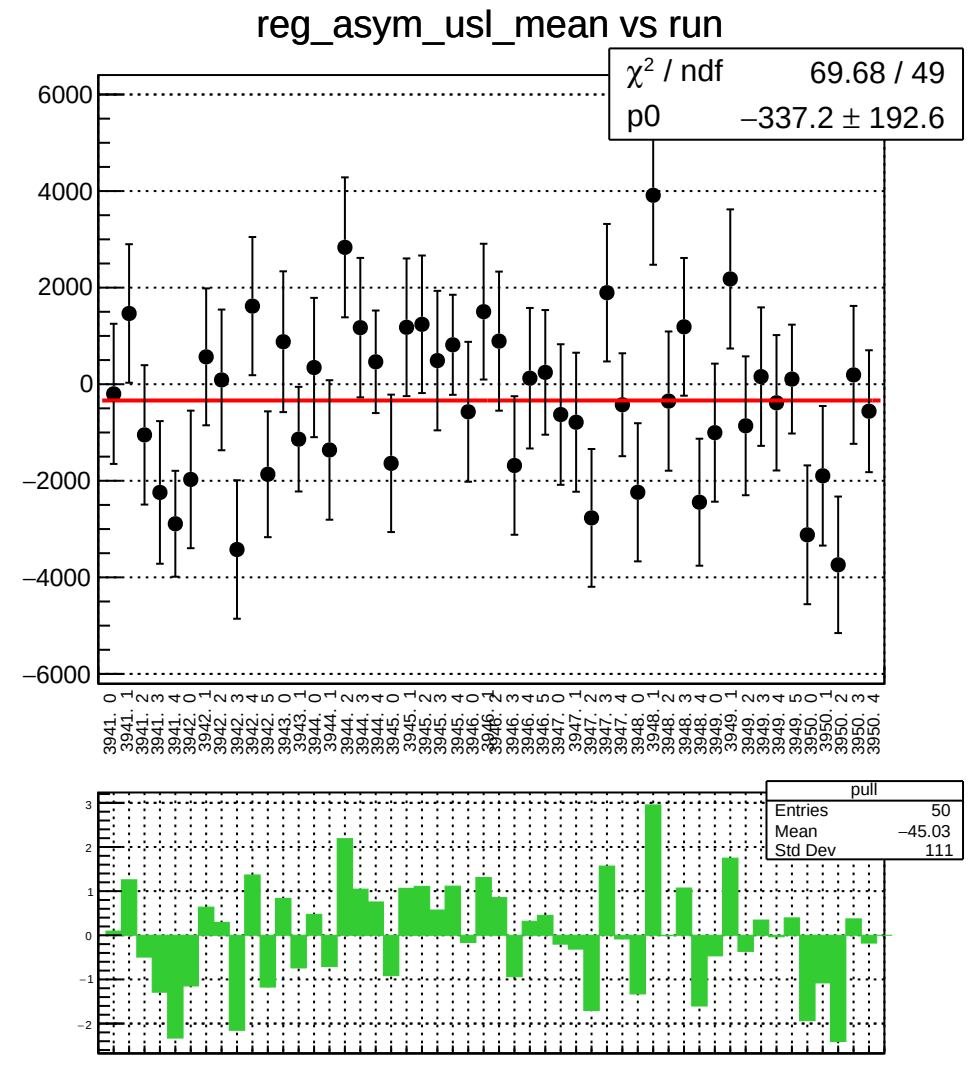

pull1D
Entries 50
Mean 0.009526
Std Dev 0.8965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

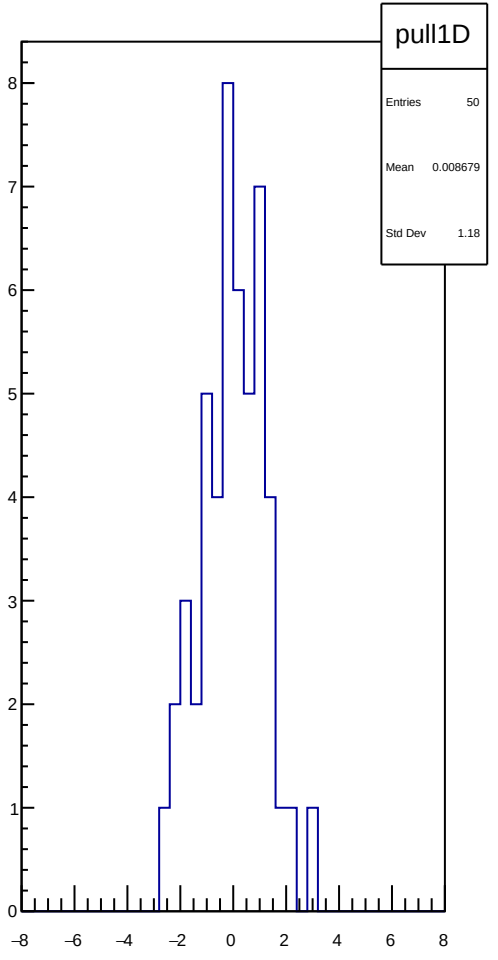

asym_ds_dd_correction_rms vs run
χ² / ndf 4938 / 49
p0 499.6 ± 0.5
540
520
500
480
460
440
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

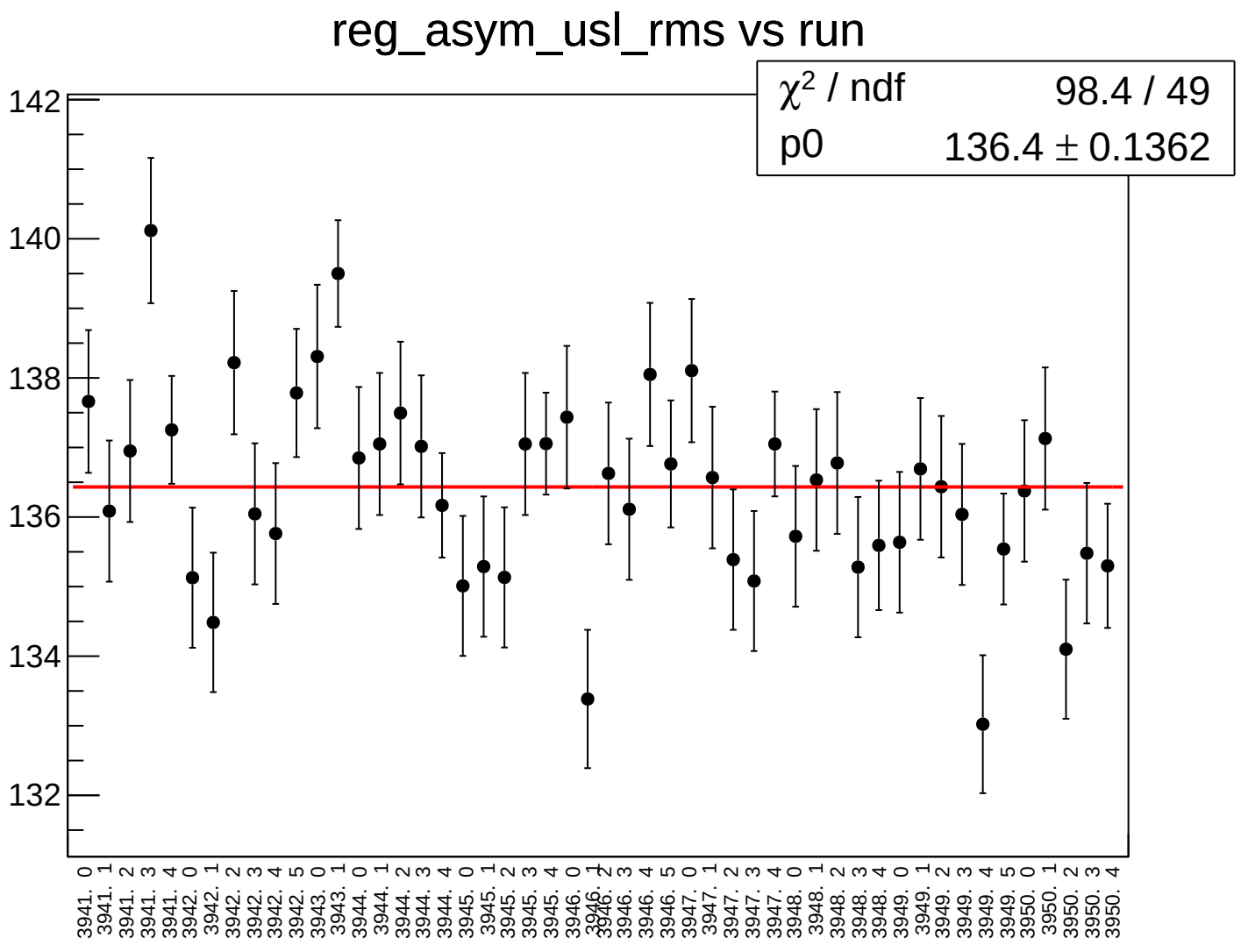

asym_ds_dd_mean vs run
χ² / ndf 43.65 / 49
p0 −222.9 ± 719.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 50
Mean −39.01
Std Dev 58.58
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

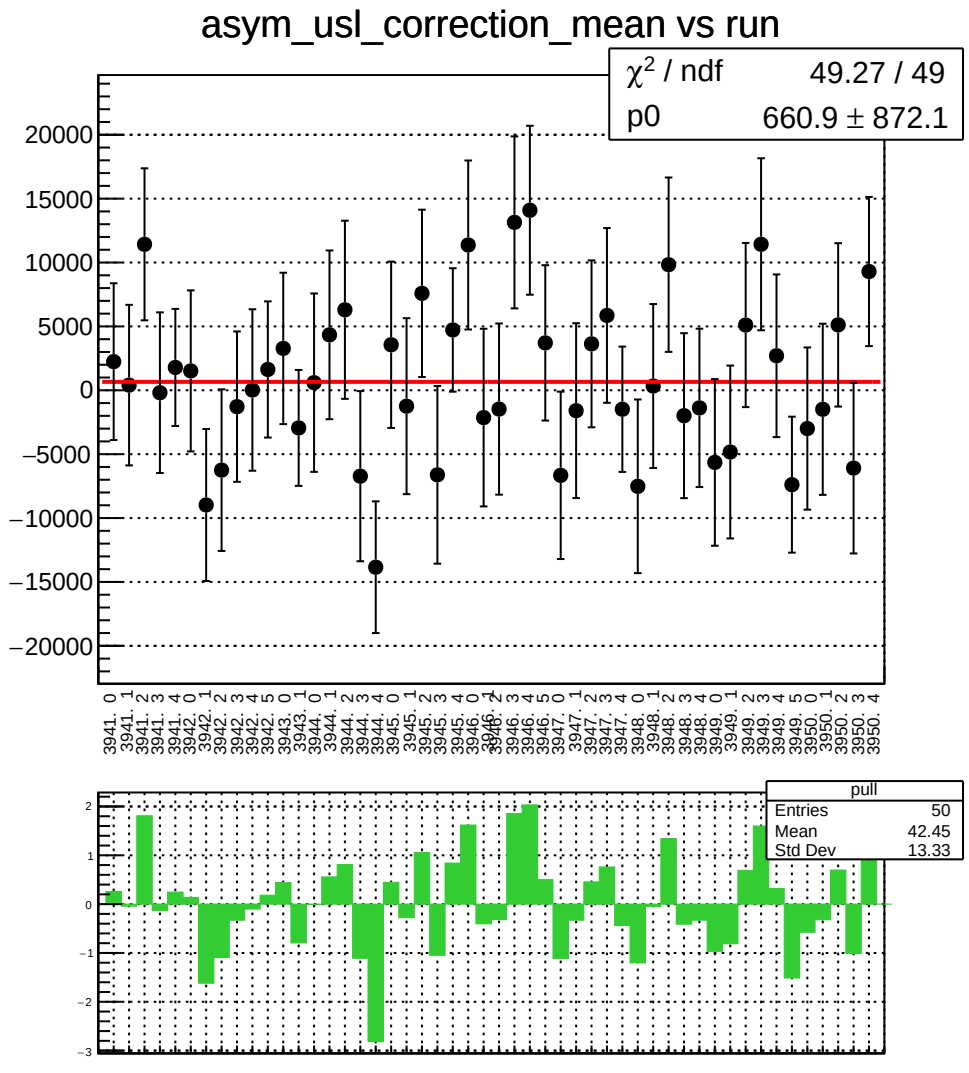

pull1D
Entries 50
Mean −0.005326
Std Dev 0.9344
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

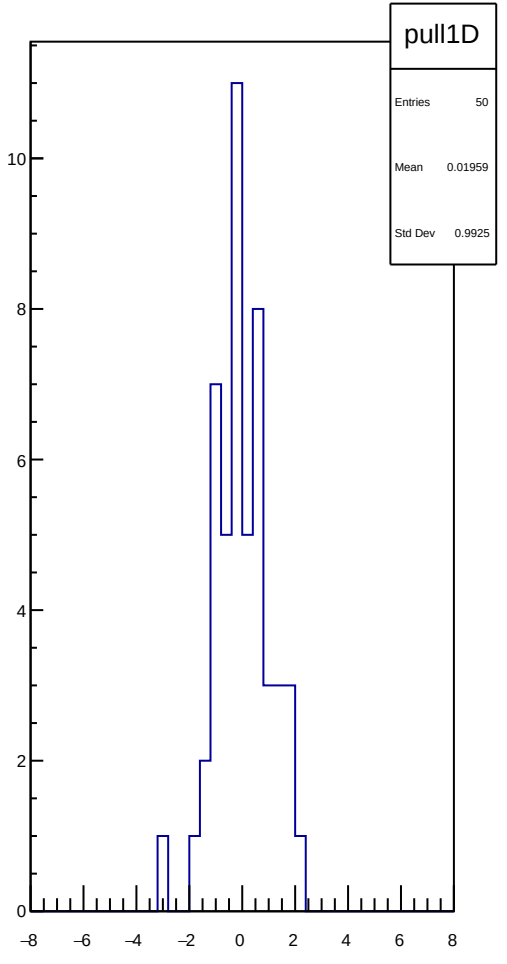

asym_ds_dd_rms vs run
χ² / ndf 4560 / 49
p0 508.7 ± 0.509
560
540
520
500
480
460
440
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

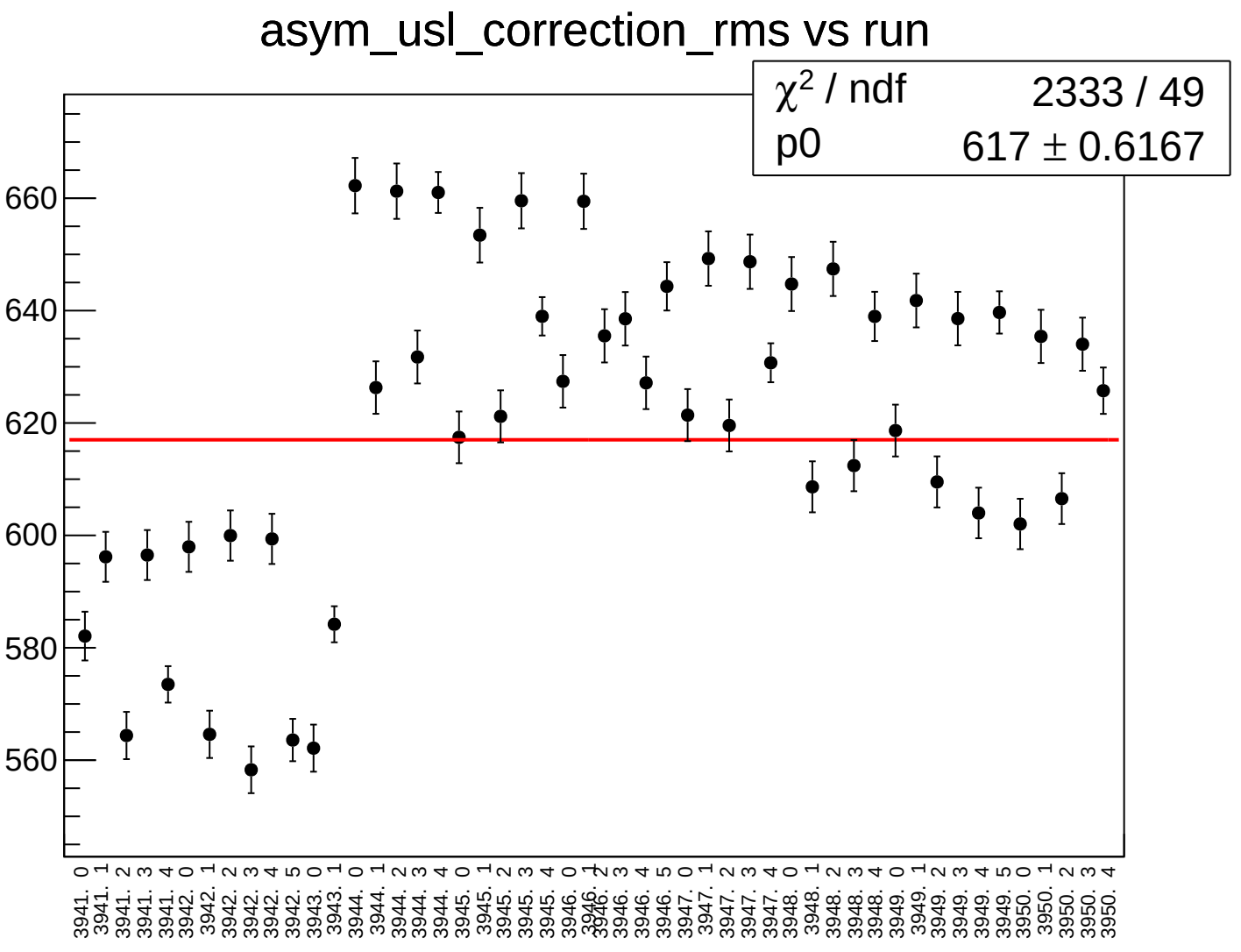

reg_asym_usl_mean vs run
χ² / ndf 69.68 / 49
p0 −337.2 ± 192.6
pull
Entries 50
Mean −45.03
Std Dev 111


pull1D
Entries 50
Mean 0.008679
Std Dev 1.18


reg_asym_usl_rms vs run
χ² / ndf 98.4 / 49
p0 136.4 ± 0.1362
142
140
138
136
134
132
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_usl_correction_mean vs run
χ² / ndf 49.27 / 49
p0 660.9 ± 872.1
pull
Entries 50
Mean 42.45
Std Dev 13.33


pull1D
Entries 50
Mean 0.01959
Std Dev 0.9925


asym_usl_correction_rms vs run
χ² / ndf 2333 / 49
p0 617 ± 0.6167
660
640
620
600
580
560
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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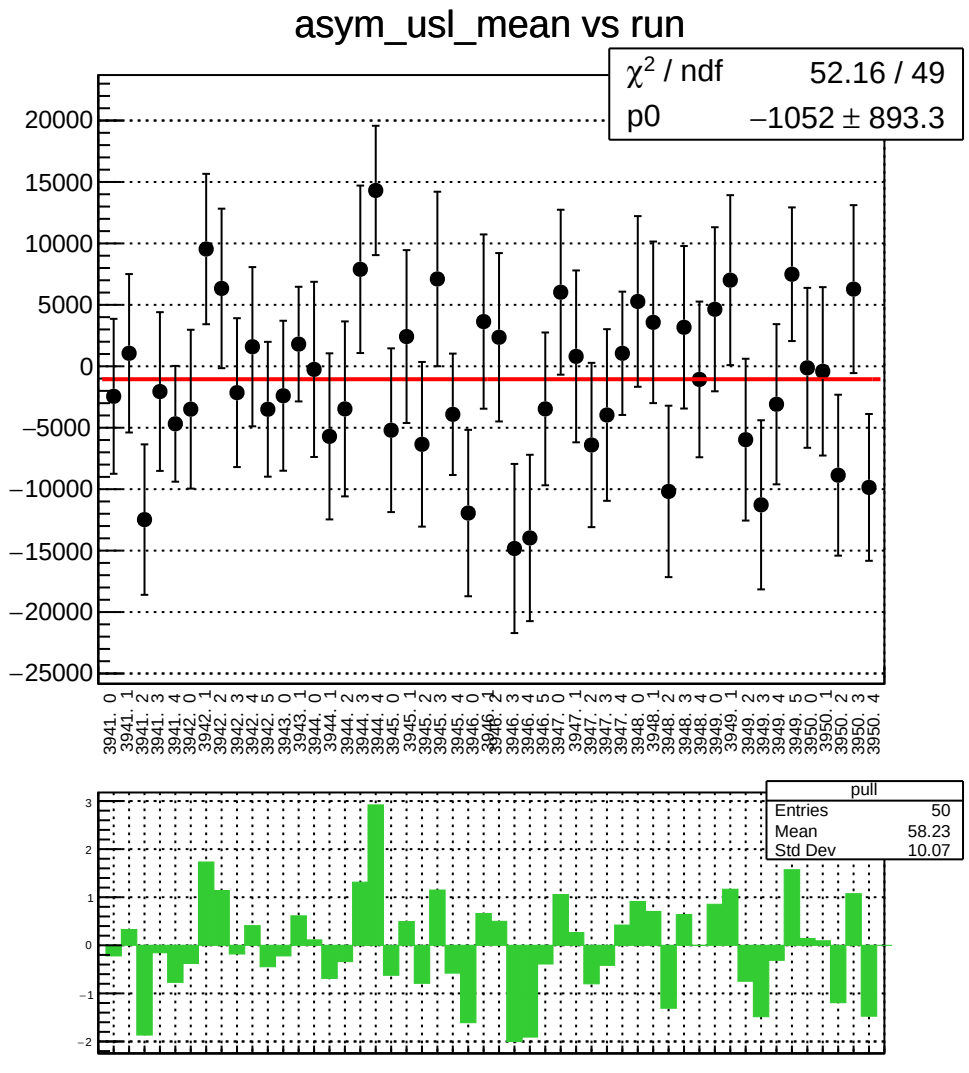
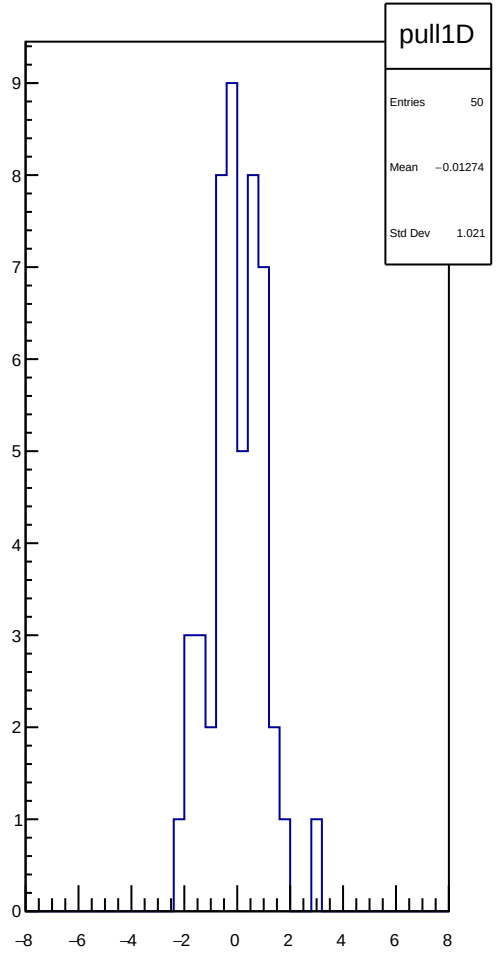
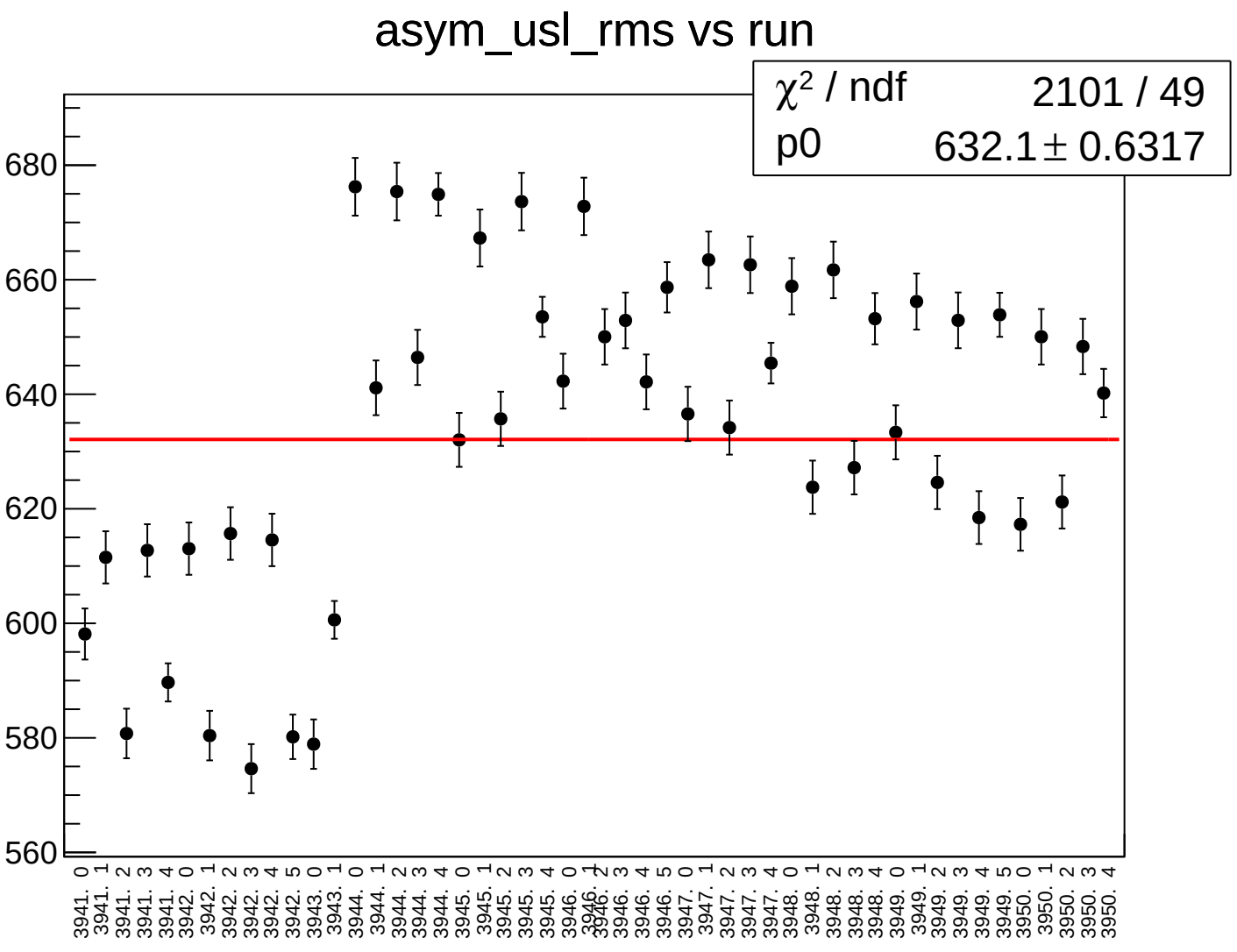
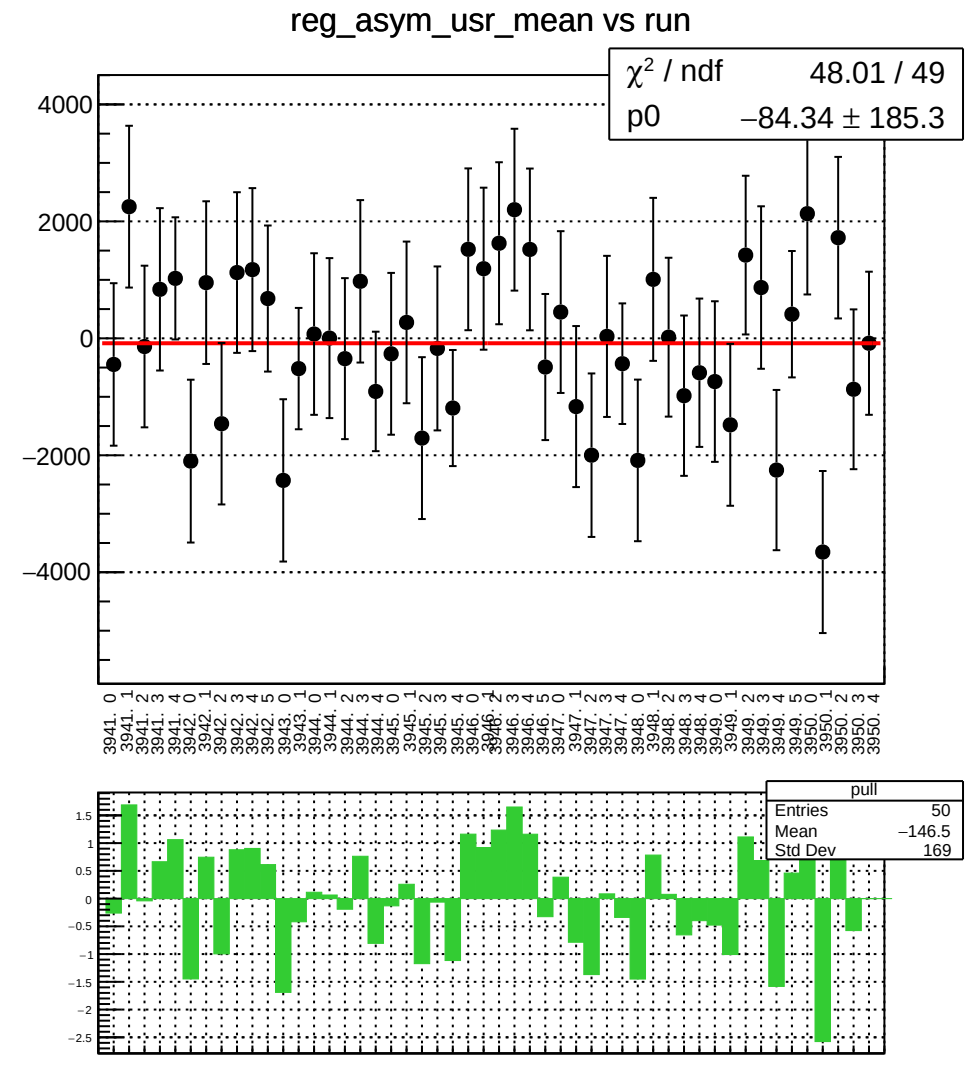
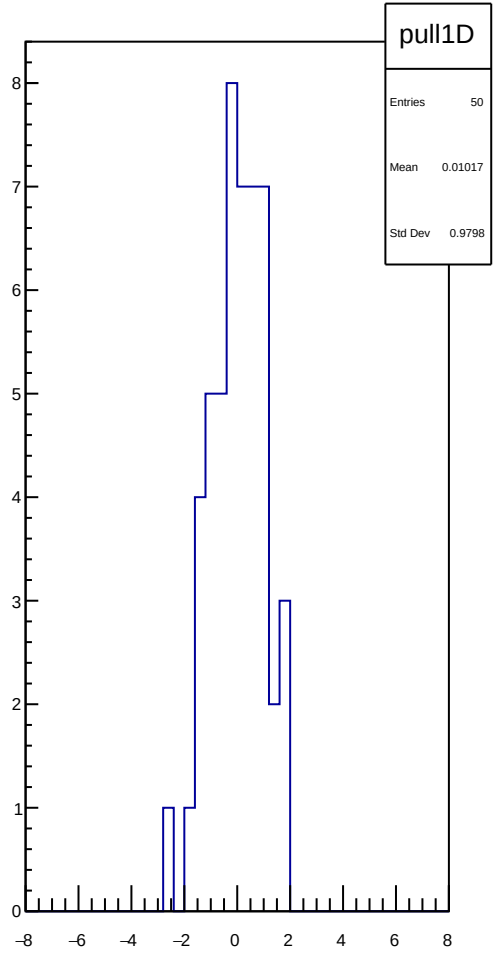
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

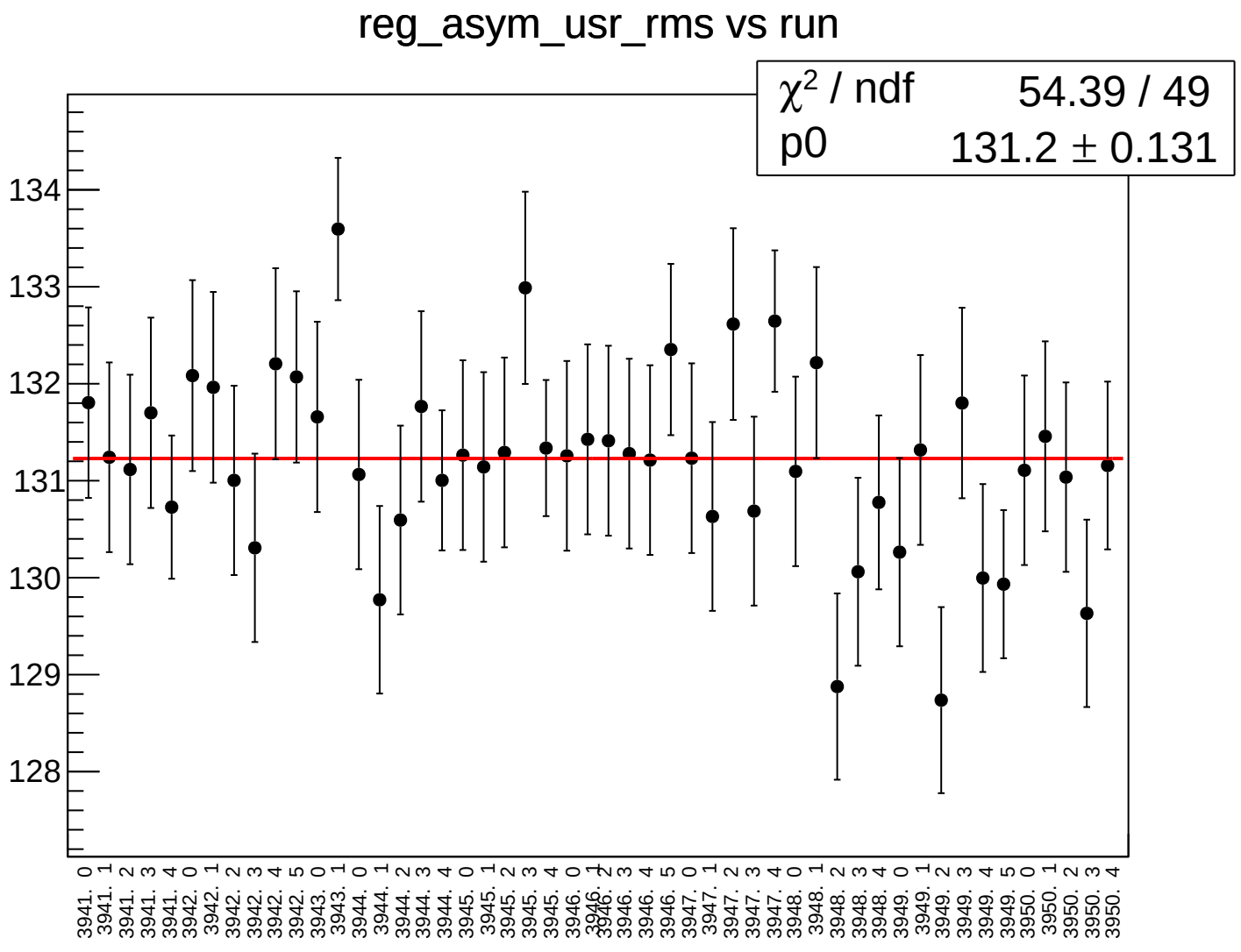

asym_usl_mean vs run
χ² / ndf 52.16 / 49
p0 −1052 ± 893.3
pull
Entries 50
Mean 58.23
Std Dev 10.07


pull1D
Entries 50
Mean −0.01274
Std Dev 1.021


asym_usl_rms vs run
χ² / ndf 2101 / 49
p0 632.1 ± 0.6317
680
660
640
620
600
580
560
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


reg_asym_usr_mean vs run
χ² / ndf 48.01 / 49
p0 −84.34 ± 185.3
4000
2000
0
−2000
−4000
pull
Entries 50
Mean −146.5
Std Dev 169
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean 0.01017
Std Dev 0.9798
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_rms vs run
χ² / ndf 54.39 / 49
p0 131.2 ± 0.131
134
133
132
131
130
129
128
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
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3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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3949. 4
3949. 5
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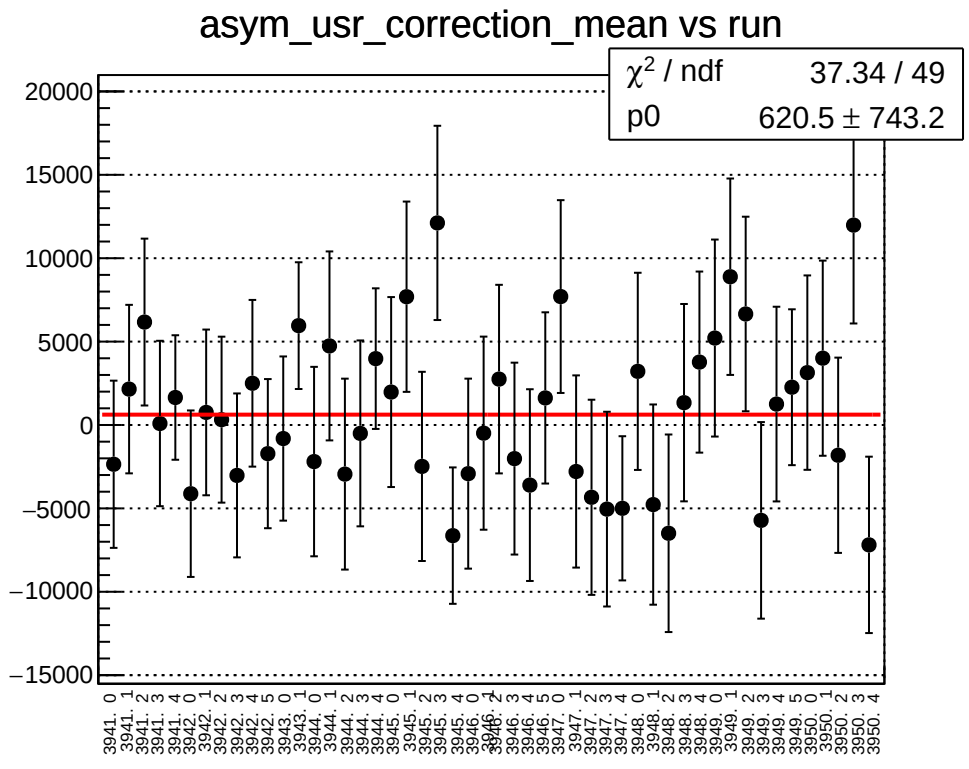
3950. 2
3950. 3
3950. 4


asym_usr_correction_mean vs run
χ² / ndf 37.34 / 49
p0 620.5 ± 743.2
20000
15000
10000
5000
0
−5000
−10000
−15000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
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3944. 4
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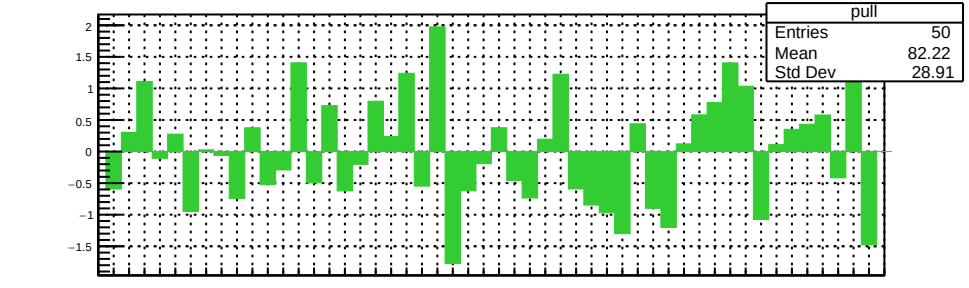
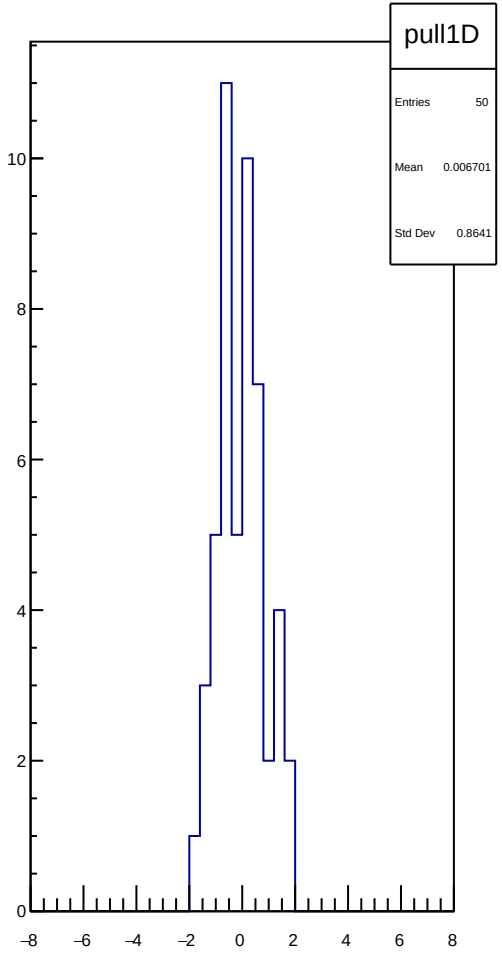
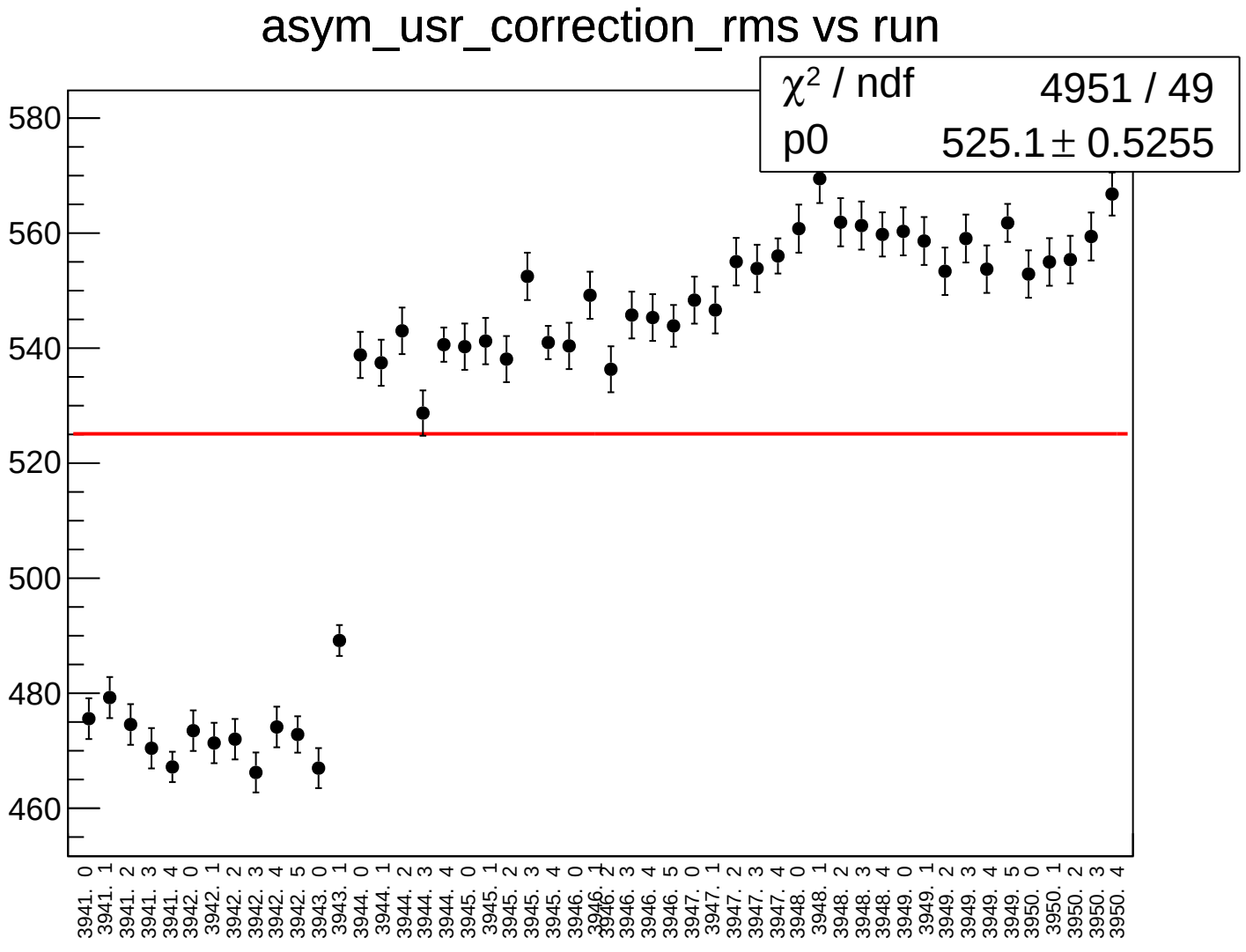
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


pull
Entries 50
Mean 82.22
Std Dev 28.91
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean 0.006701
Std Dev 0.8641
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_correction_rms vs run
χ² / ndf 4951 / 49
p0 525.1 ± 0.5255
580
560
540
520
500
480
460
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
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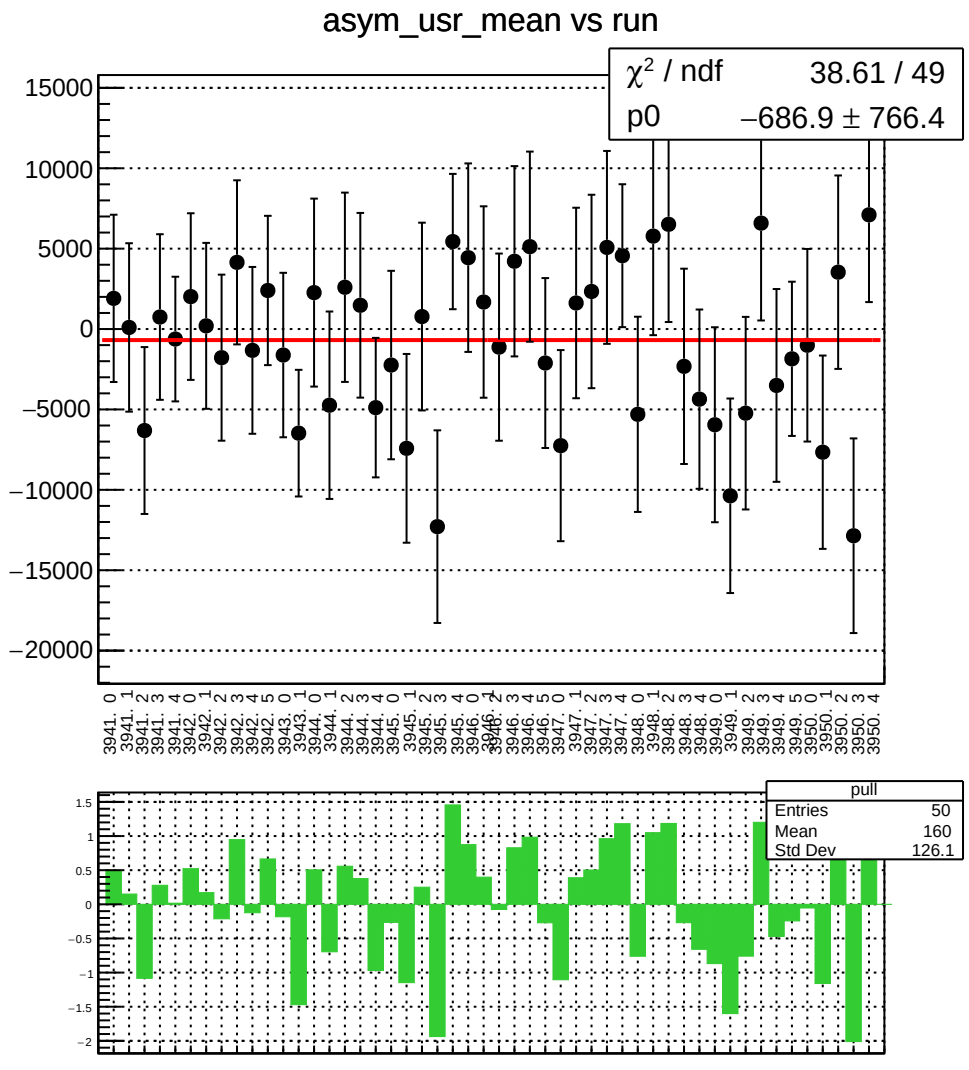
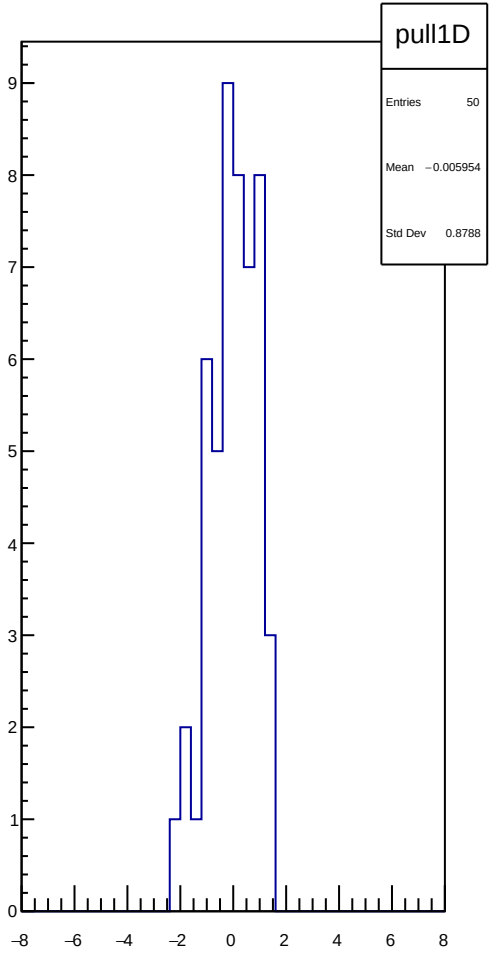
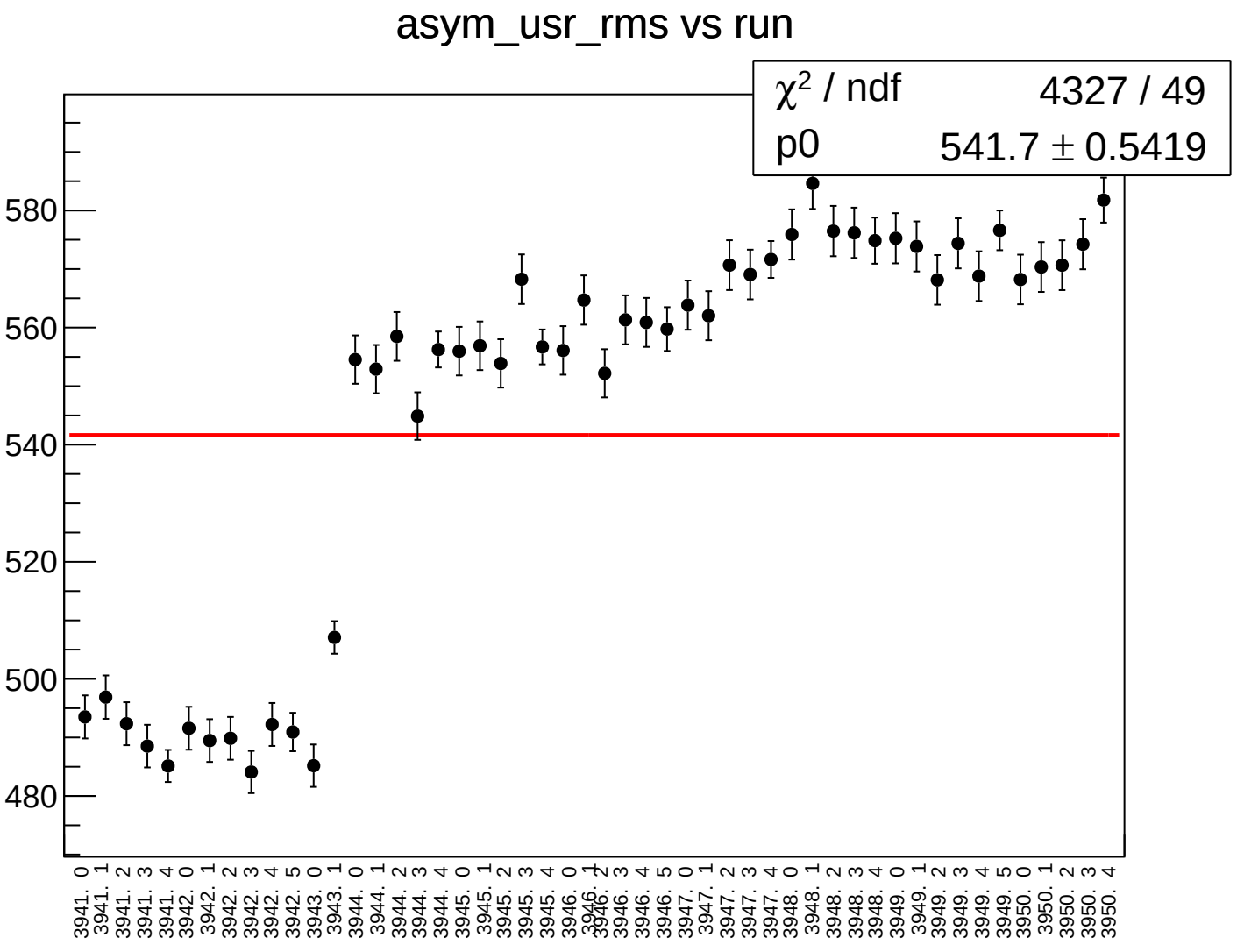
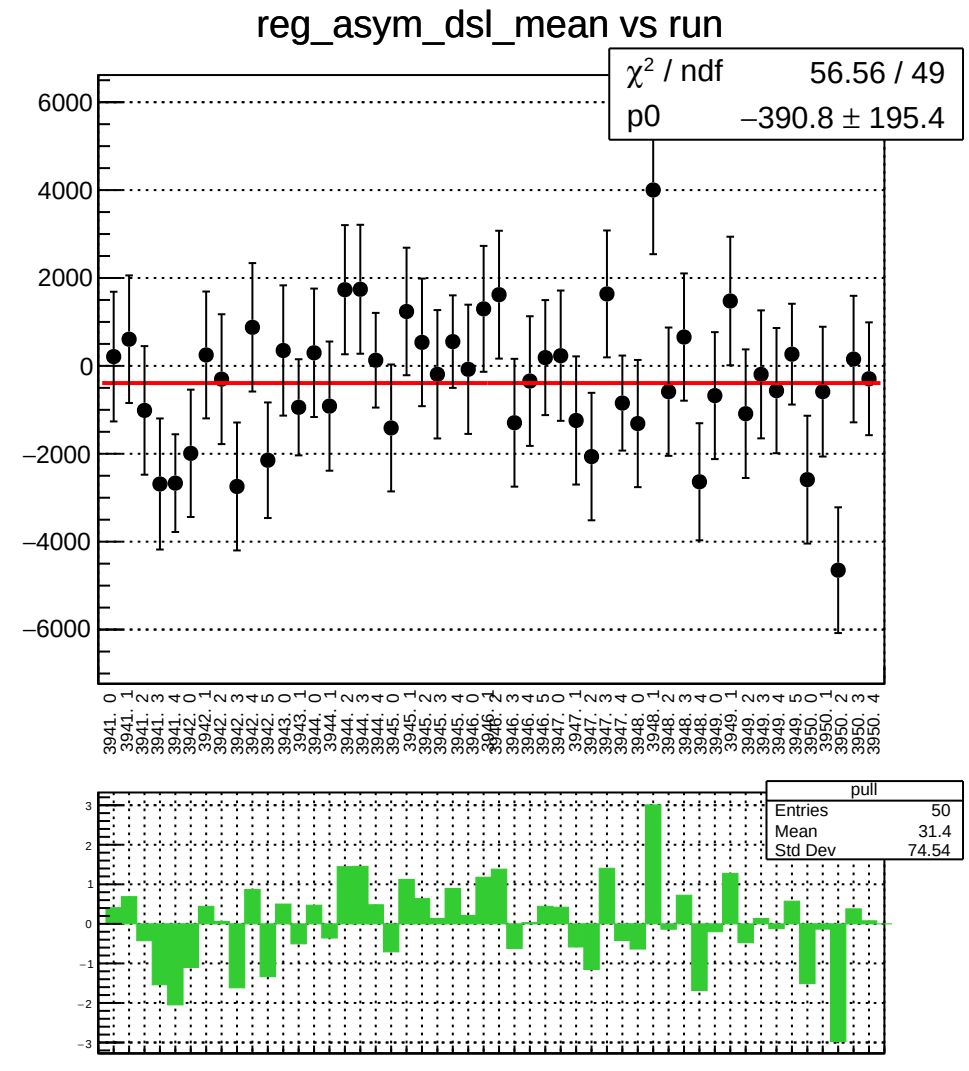
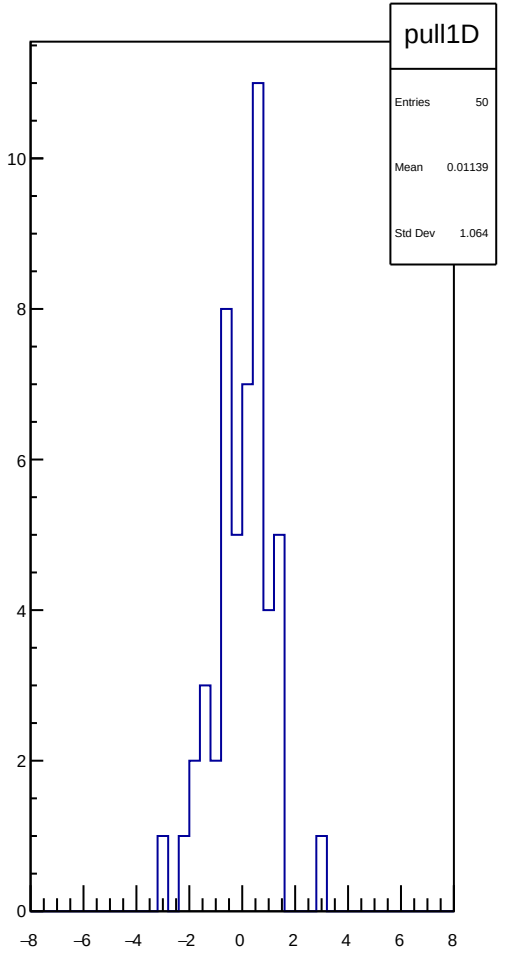
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

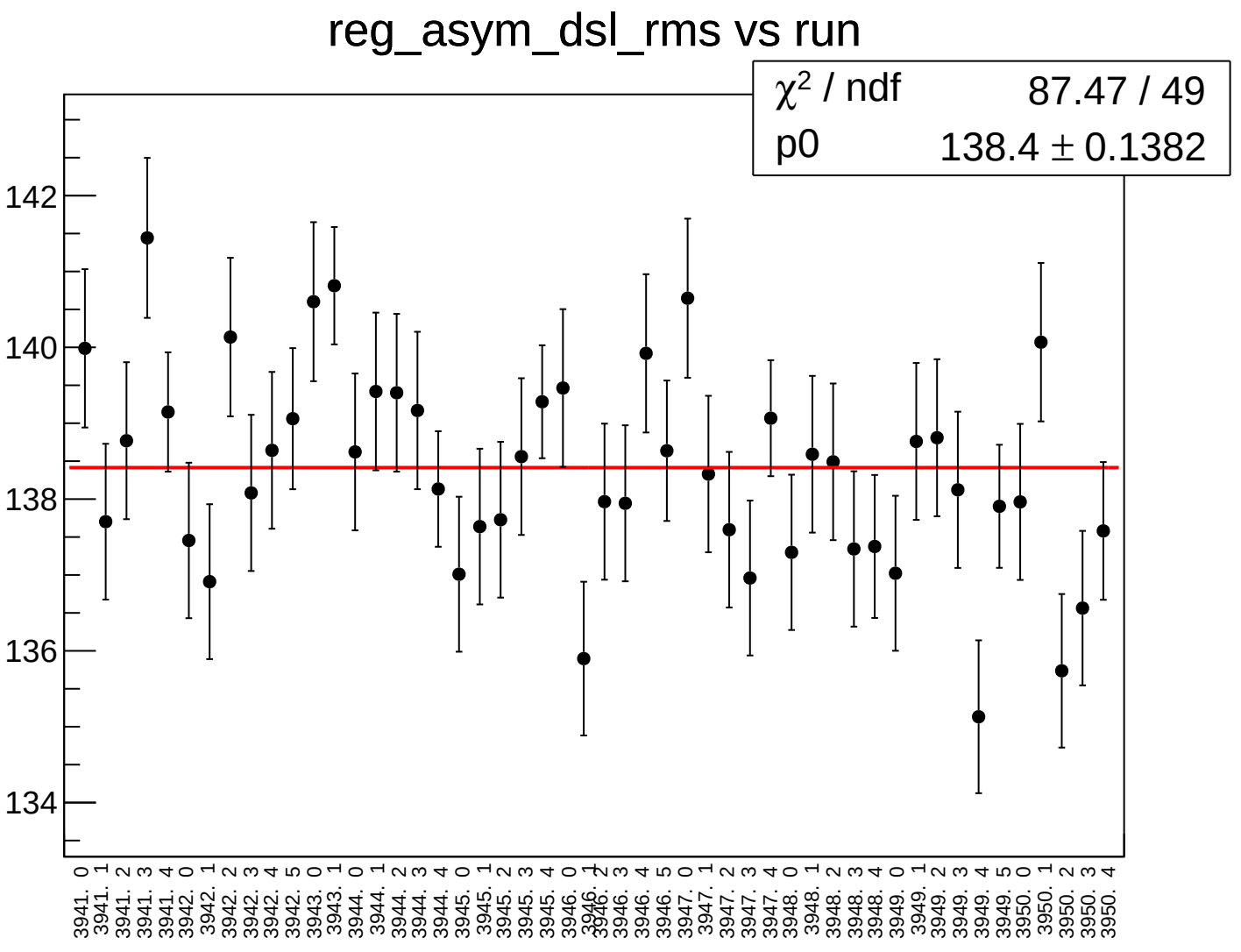

asym_usr_mean vs run
χ² / ndf 38.61 / 49
p0 −686.9 ± 766.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 160
Std Dev 126.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

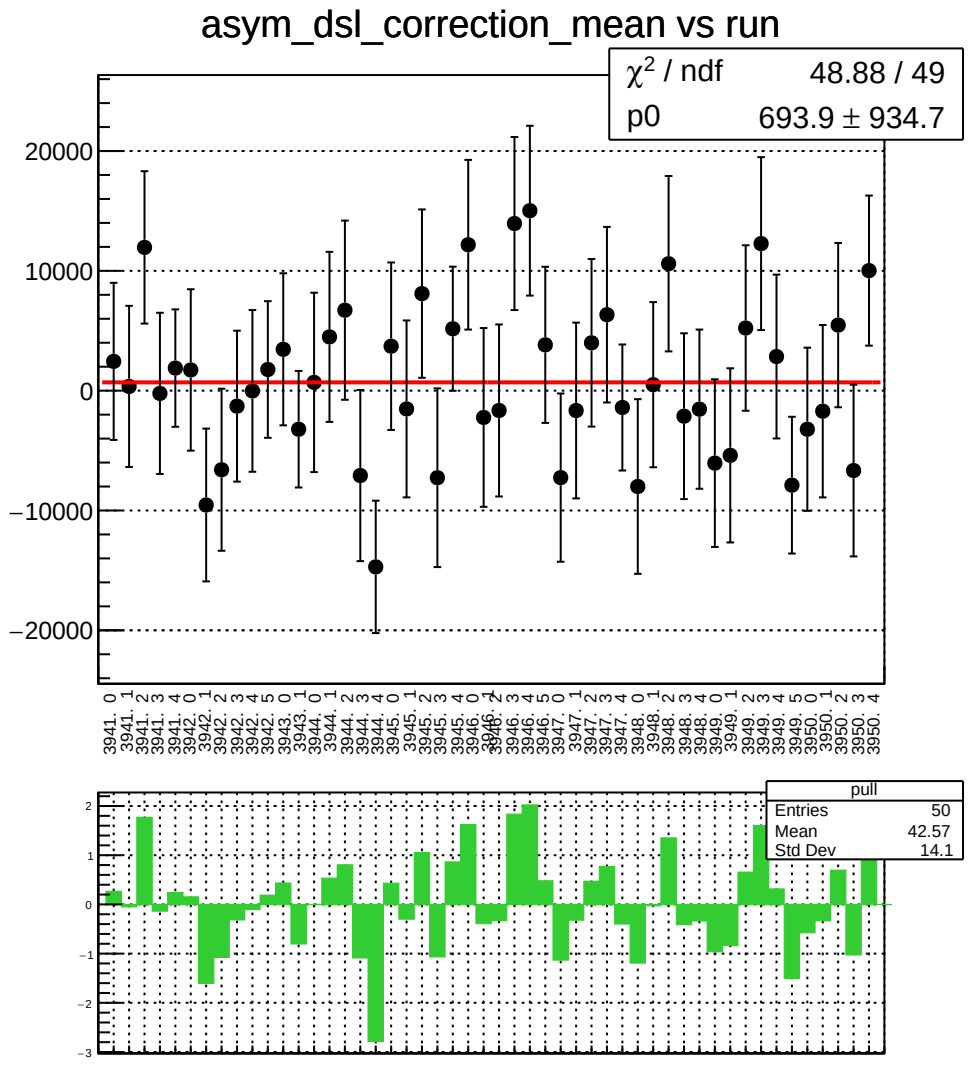

pull1D
Entries 50
Mean −0.005954
Std Dev 0.8788
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

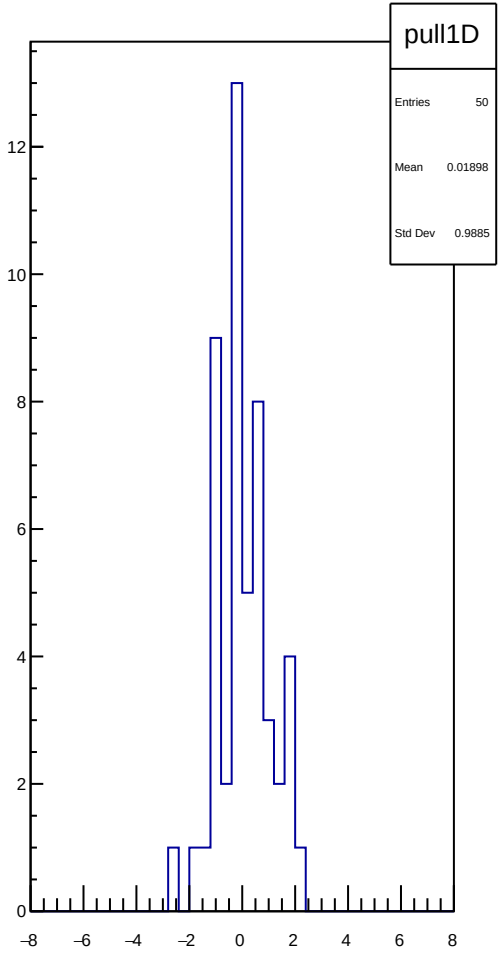

asym_usr_rms vs run
χ² / ndf 4327 / 49
p0 541.7 ± 0.5419
580
560
540
520
500
480
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

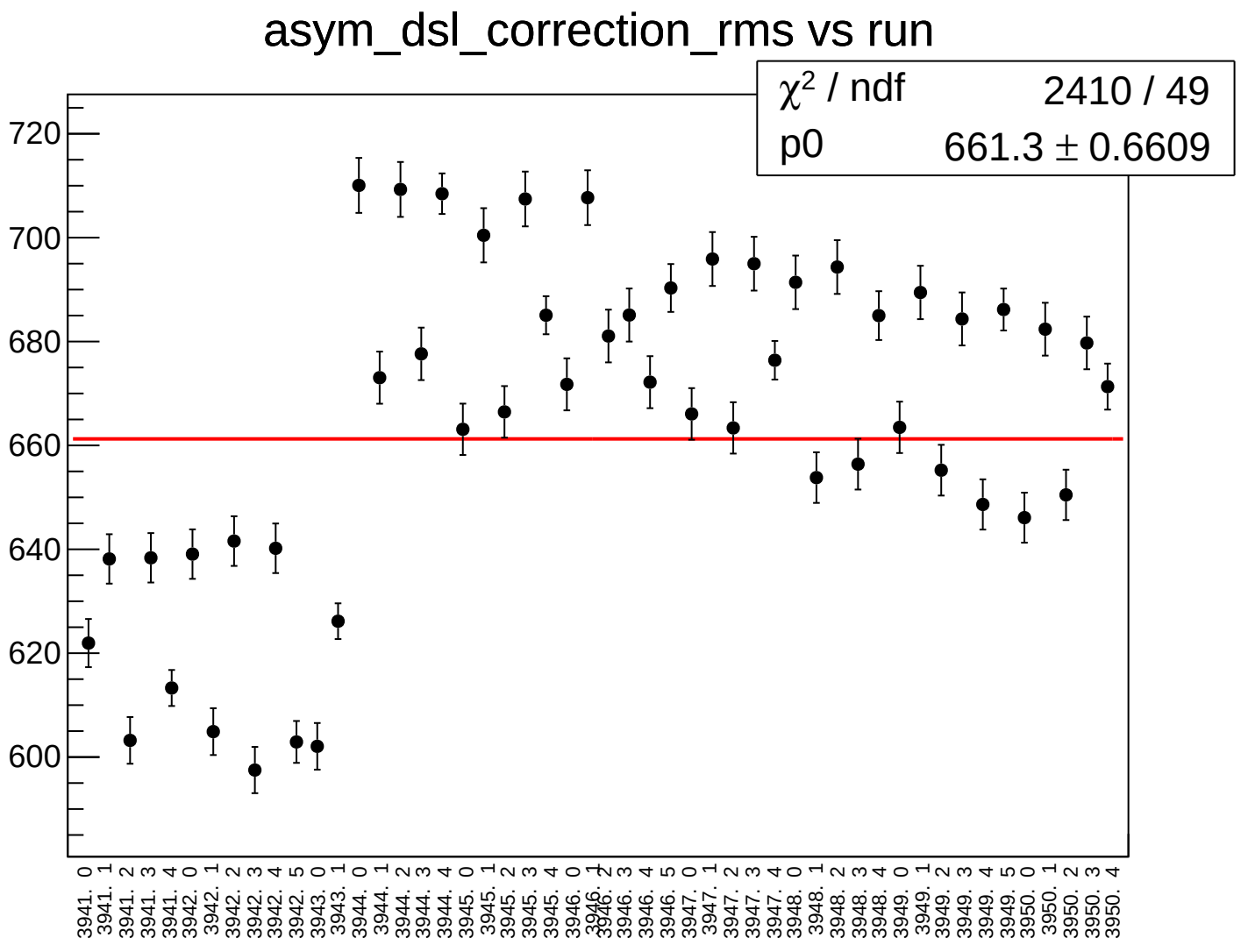

reg_asym_dsl_mean vs run
χ² / ndf 56.56 / 49
p0 −390.8 ± 195.4
pull
Entries 50
Mean 31.4
Std Dev 74.54

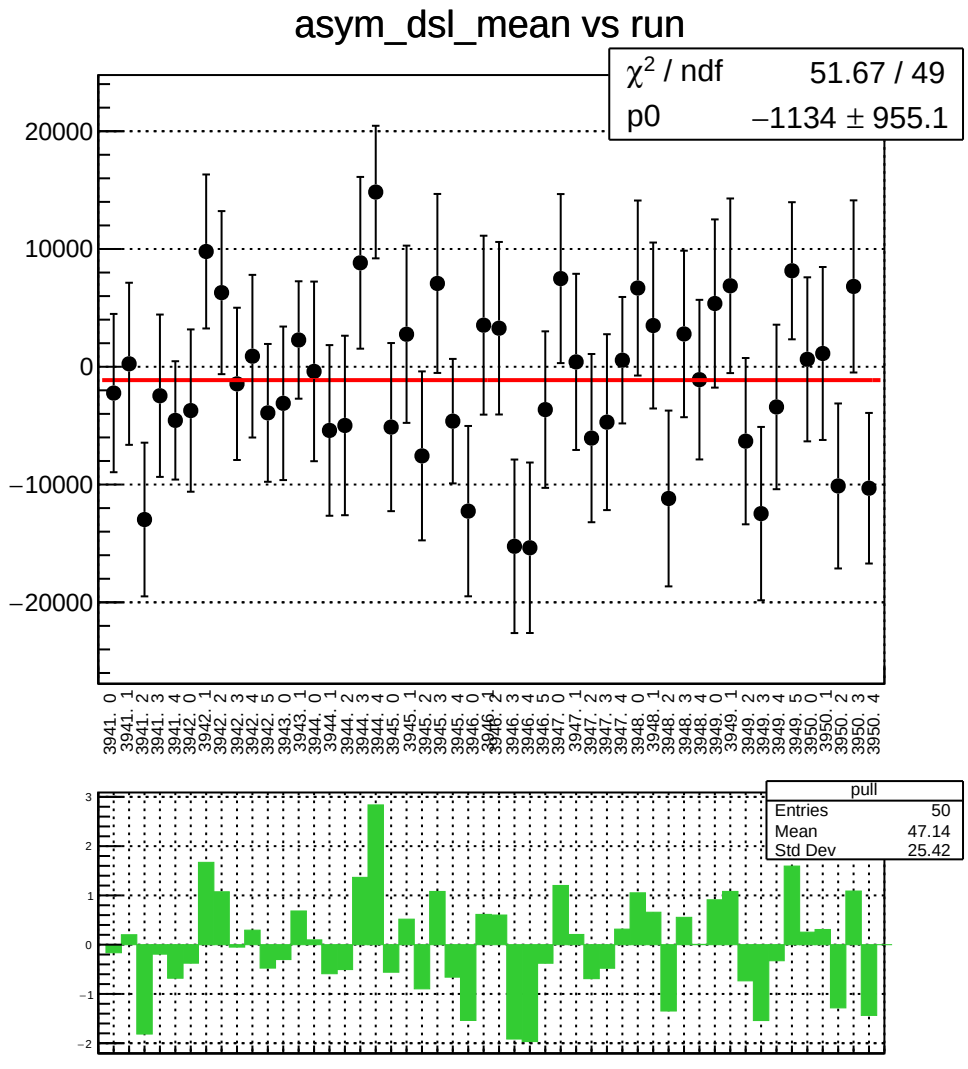

pull1D
Entries 50
Mean 0.01139
Std Dev 1.064

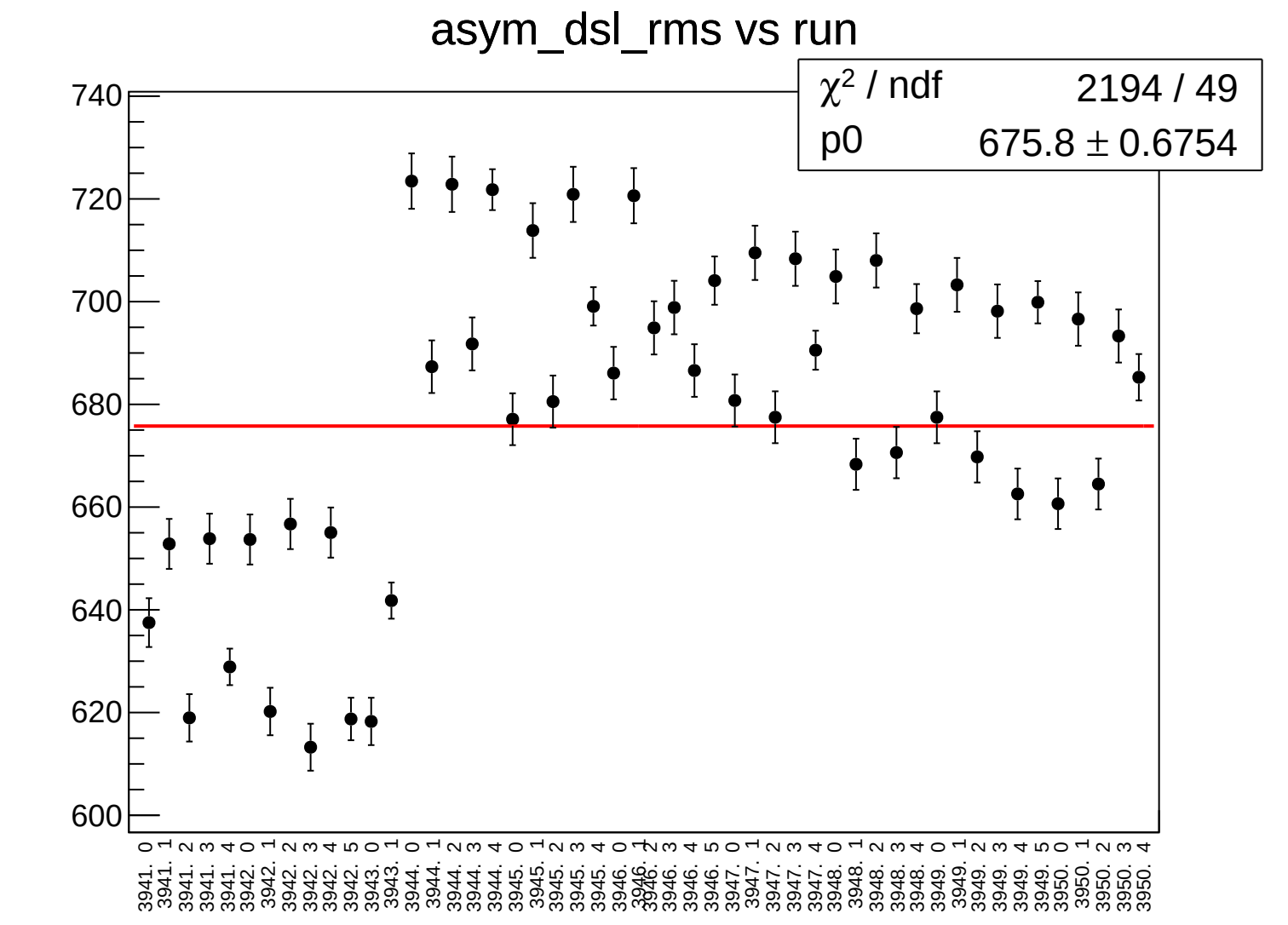

reg_asym_dsl_rms vs run
χ² / ndf 87.47 / 49
p0 138.4 ± 0.1382
142
140
138
136
134
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

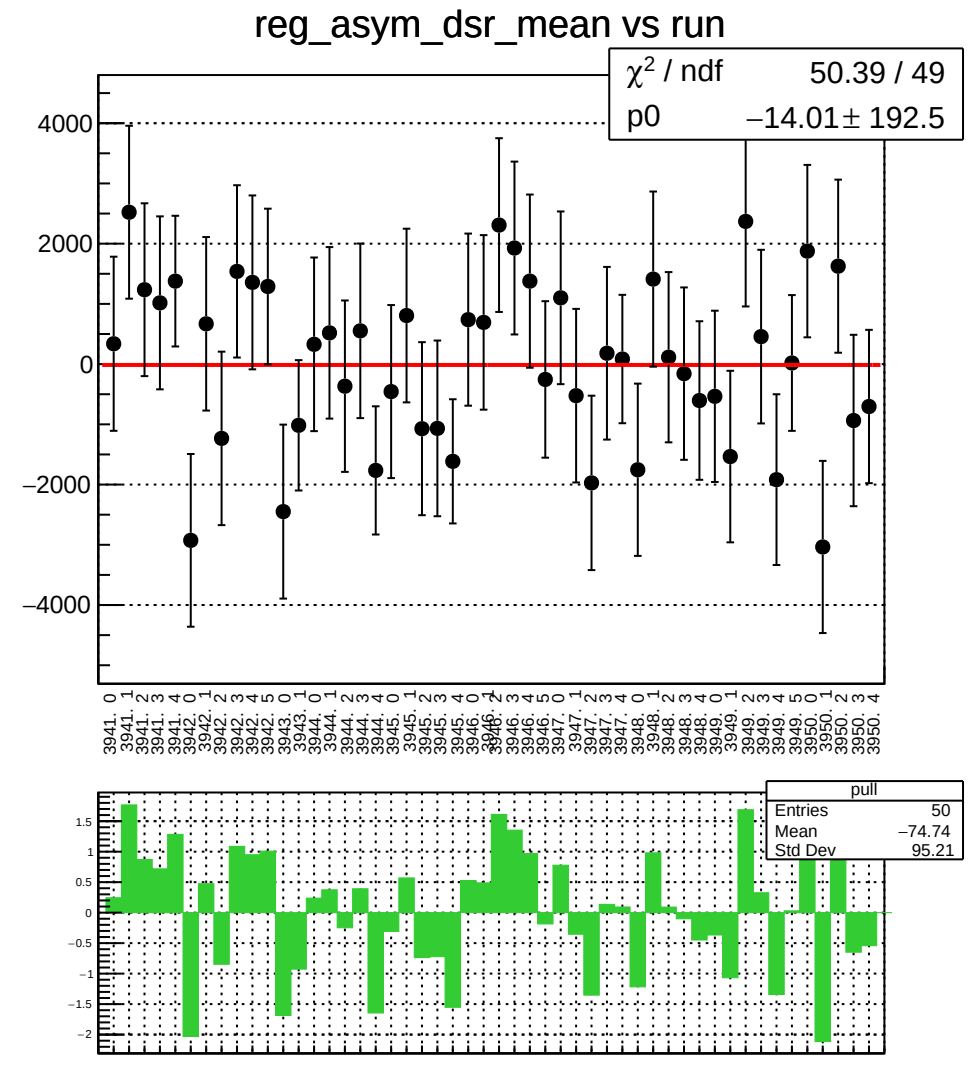

asym_dsl_correction_mean vs run
χ² / ndf 48.88 / 49
p0 693.9 ± 934.7
20000
10000
0
−10000
−20000
pull
Entries 50
Mean 42.57
Std Dev 14.1
2
1
0
−1
−2
−3

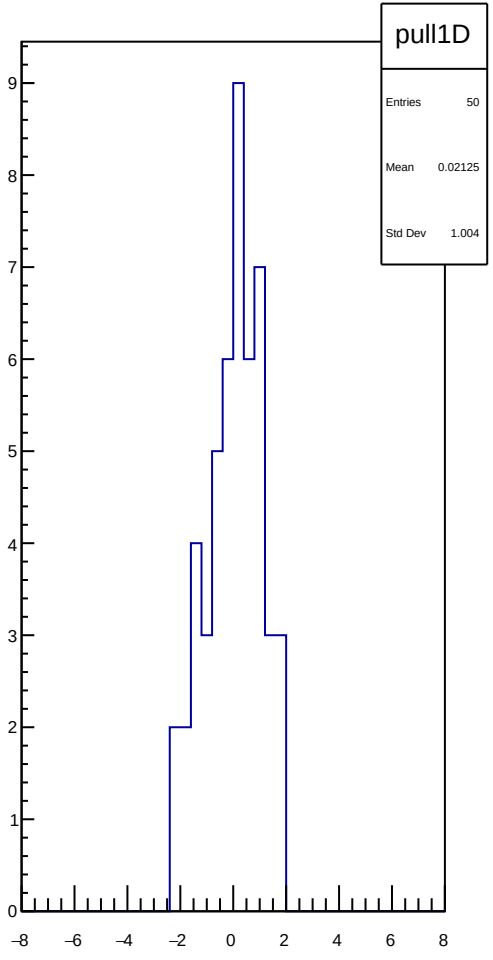

pull1D
Entries 50
Mean 0.01898
Std Dev 0.9885
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

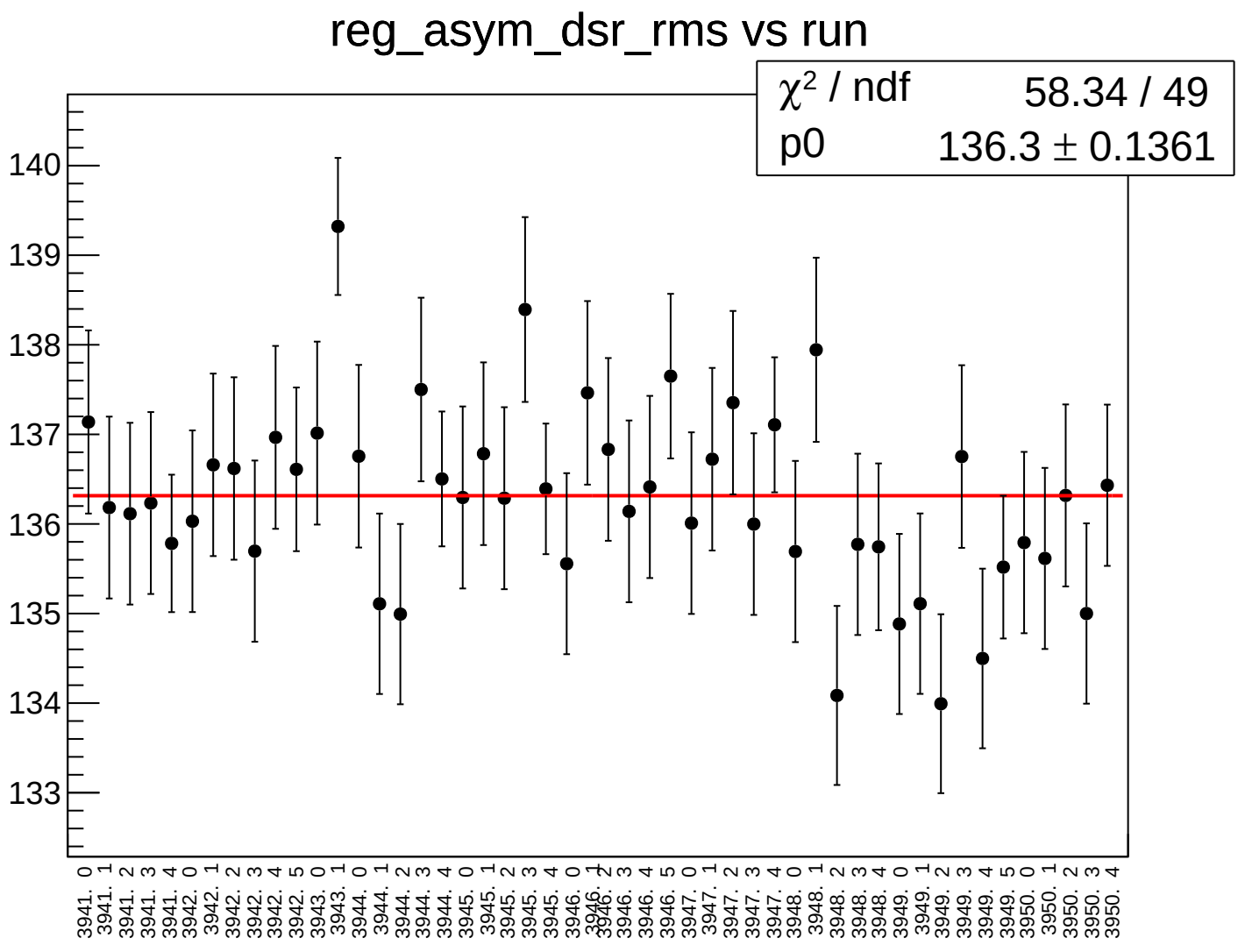

asym_dsl_correction_rms vs run
χ² / ndf 2410 / 49
p0 661.3 ± 0.6609
720
700
680
660
640
620
600
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

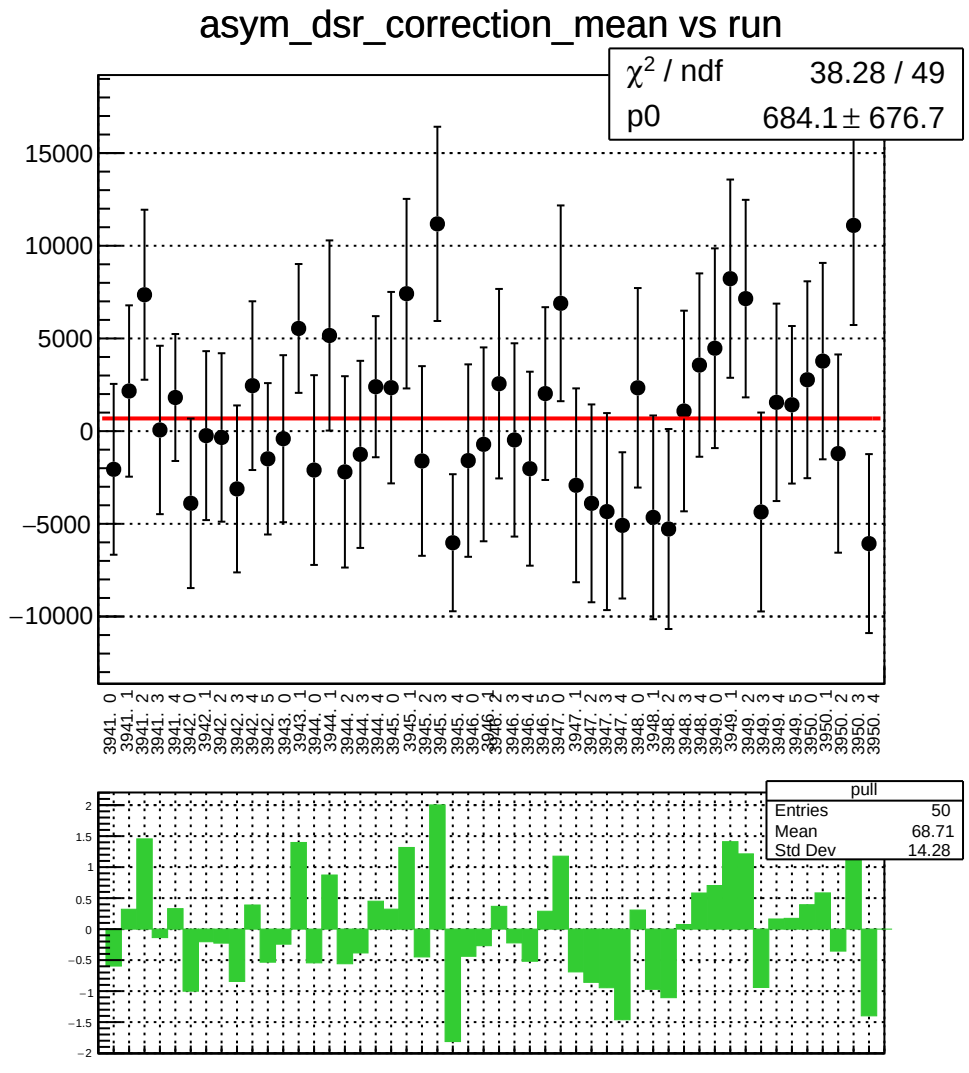

asym_dsl_mean vs run
χ² / ndf 51.67 / 49
p0 −1134 ± 955.1
20000
10000
0
−10000
−20000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 47.14
Std Dev 25.42
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.01242
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

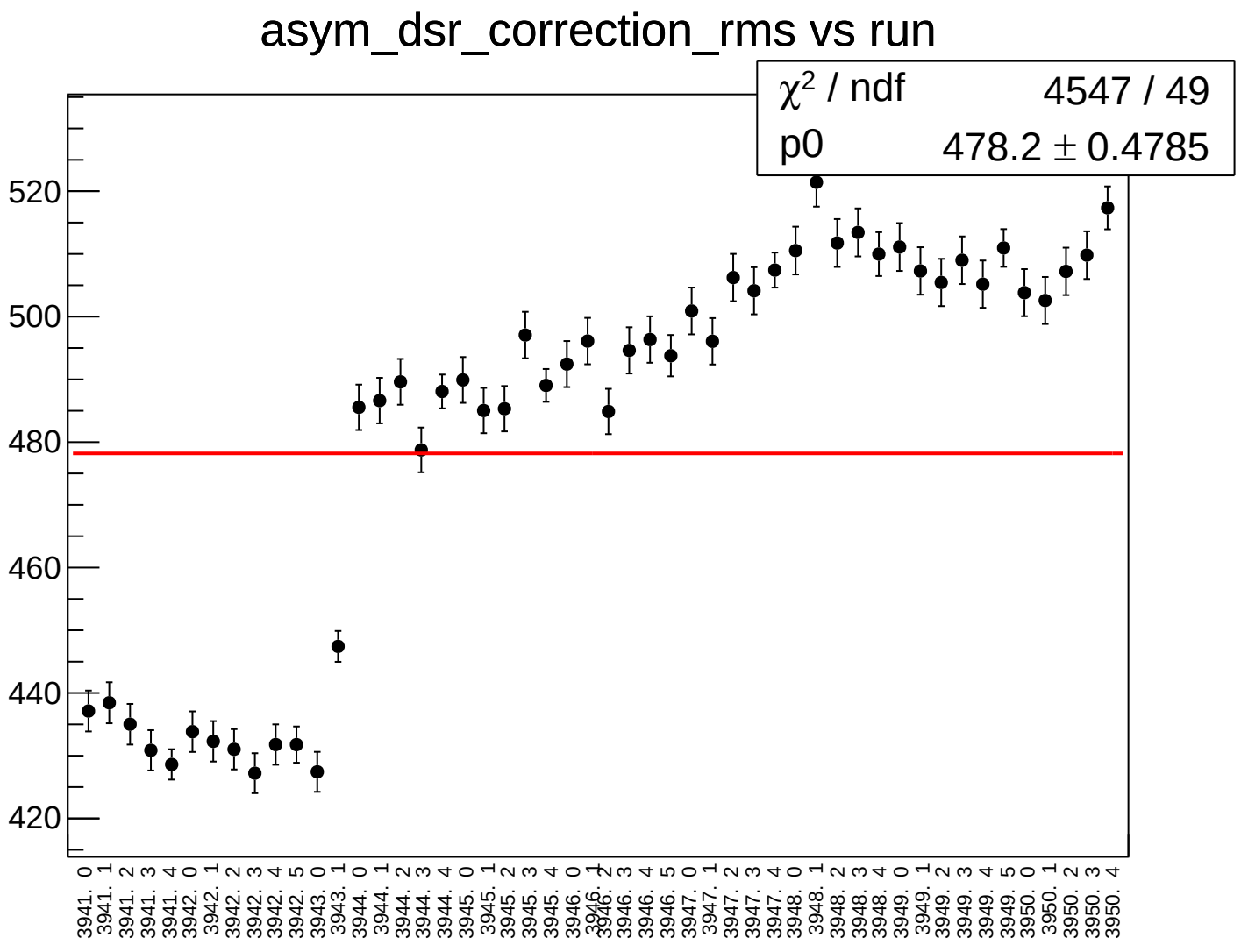

asym_dsl_rms vs run
χ² / ndf 2194 / 49
p0 675.8 ± 0.6754
740
720
700
680
660
640
620
600
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

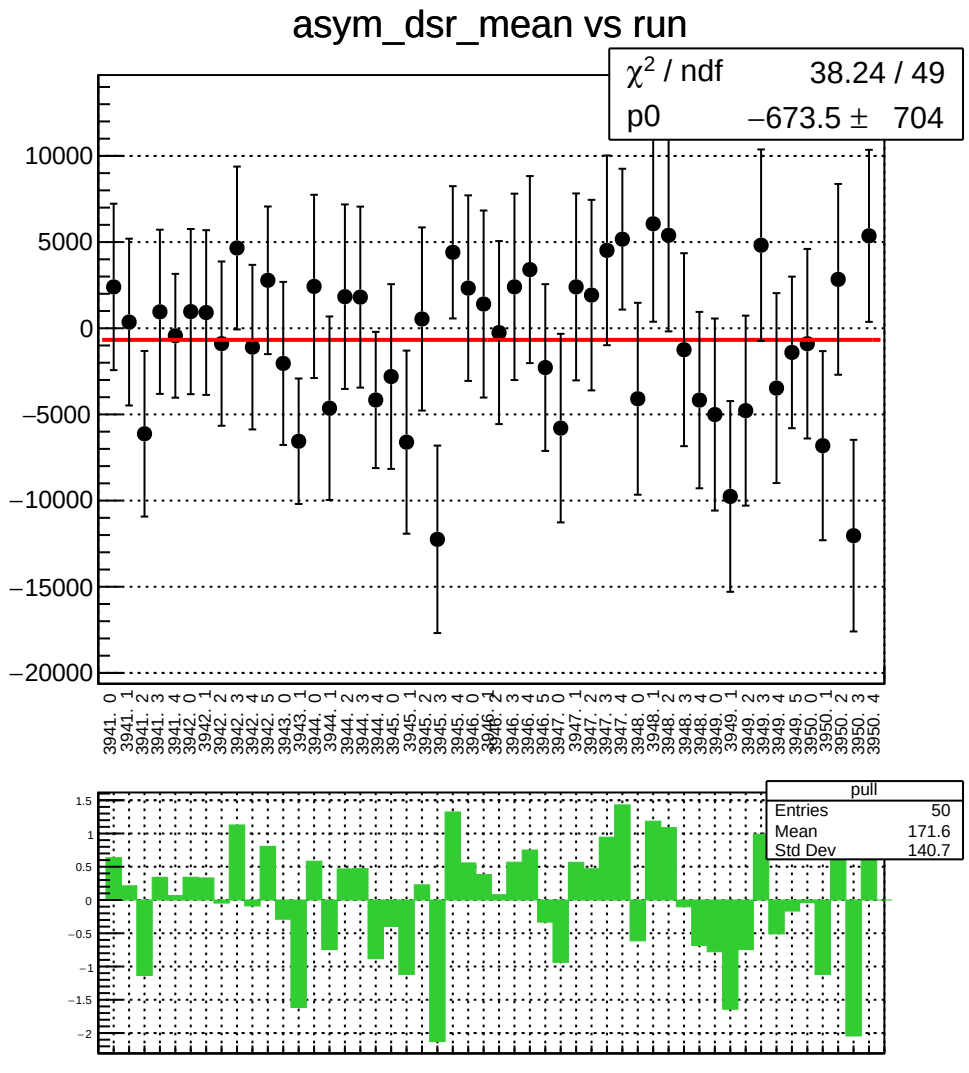

reg_asym_dsr_mean vs run
χ² / ndf 50.39 / 49
p0 −14.01± 192.5
4000
2000
0
−2000
−4000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −74.74
Std Dev 95.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2

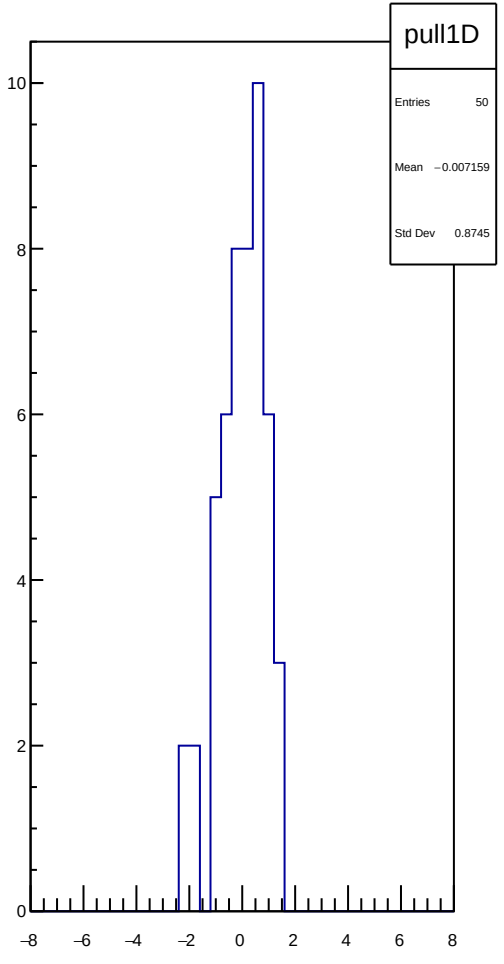

pull1D
Entries 50
Mean 0.02125
Std Dev 1.004
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

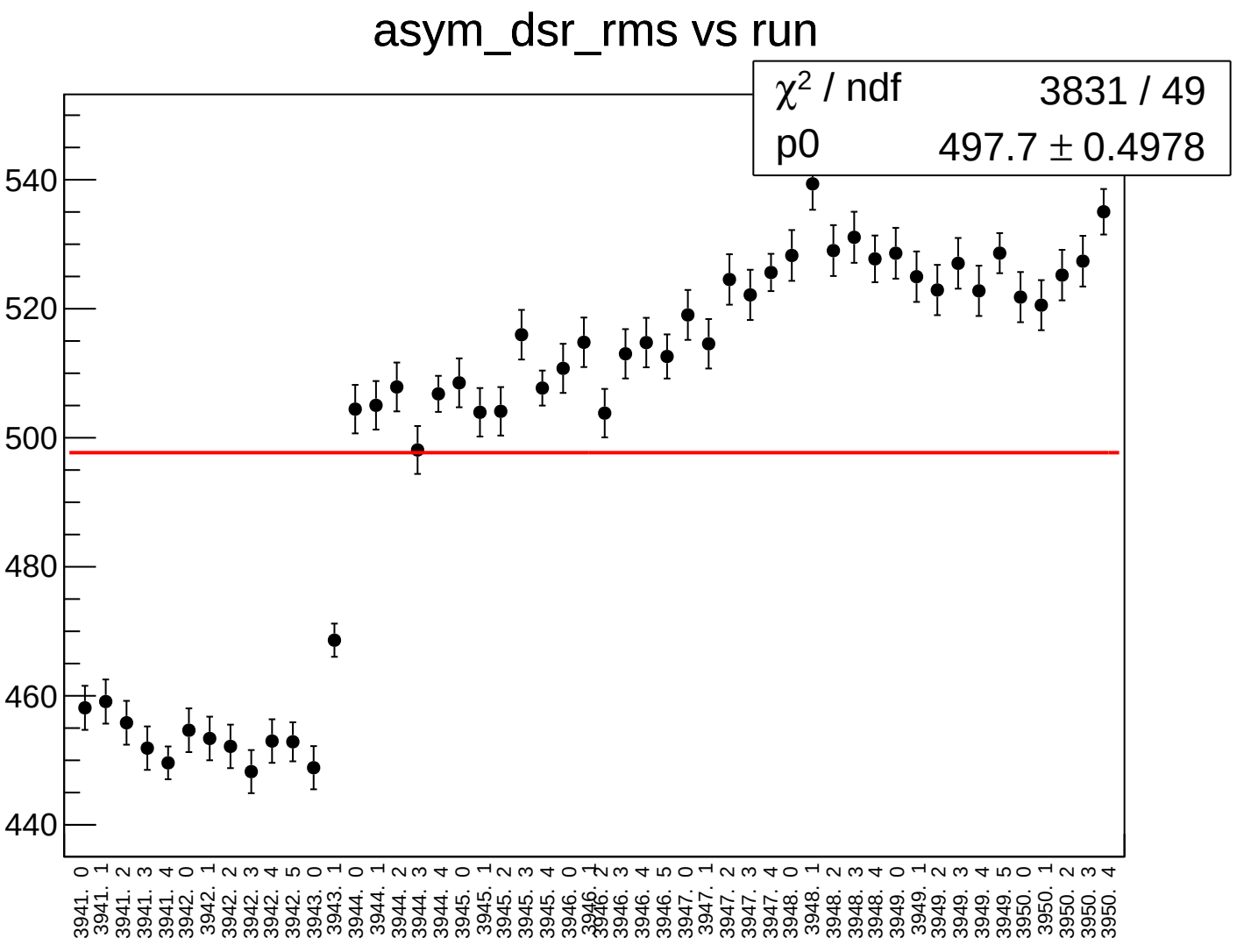

reg_asym_dsr_rms vs run
χ² / ndf 58.34 / 49
p0 136.3 ± 0.1361
140
139
138
137
136
135
134
133
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_dsr_correction_mean vs run
χ² / ndf 38.28 / 49
p0 684.1 ± 676.7
15000
10000
5000
0
−5000
−10000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 68.71
Std Dev 14.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.01059
Std Dev 0.8749
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_correction_rms vs run
χ² / ndf 4547 / 49
p0 478.2 ± 0.4785
520
500
480
460
440
420
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_dsr_mean vs run
χ² / ndf 38.24 / 49
p0 −673.5 ± 704
pull
Entries 50
Mean 171.6
Std Dev 140.7


pull1D
Entries 50
Mean −0.007159
Std Dev 0.8745


asym_dsr_rms vs run
χ² / ndf 3831 / 49
p0 497.7 ± 0.4978
540
520
500
480
460
440
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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3949. 3
3949. 4
3949. 5
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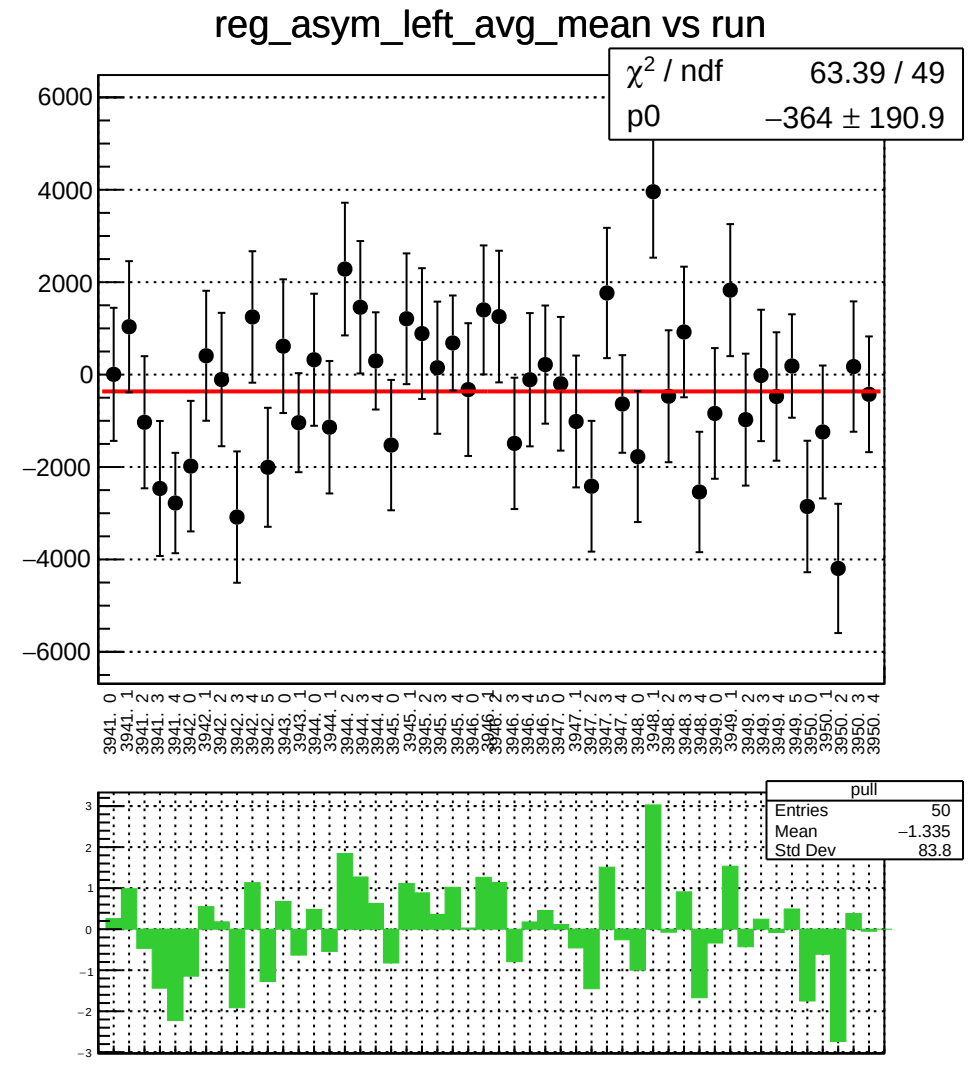
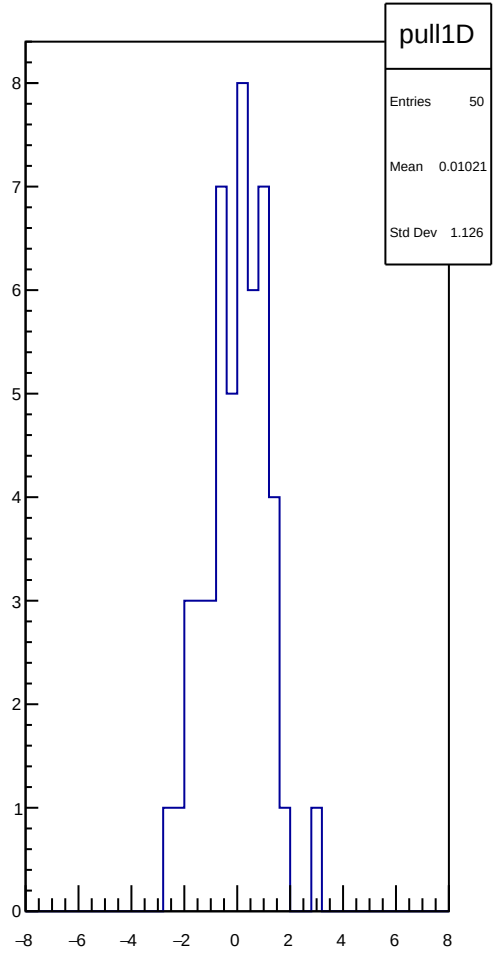
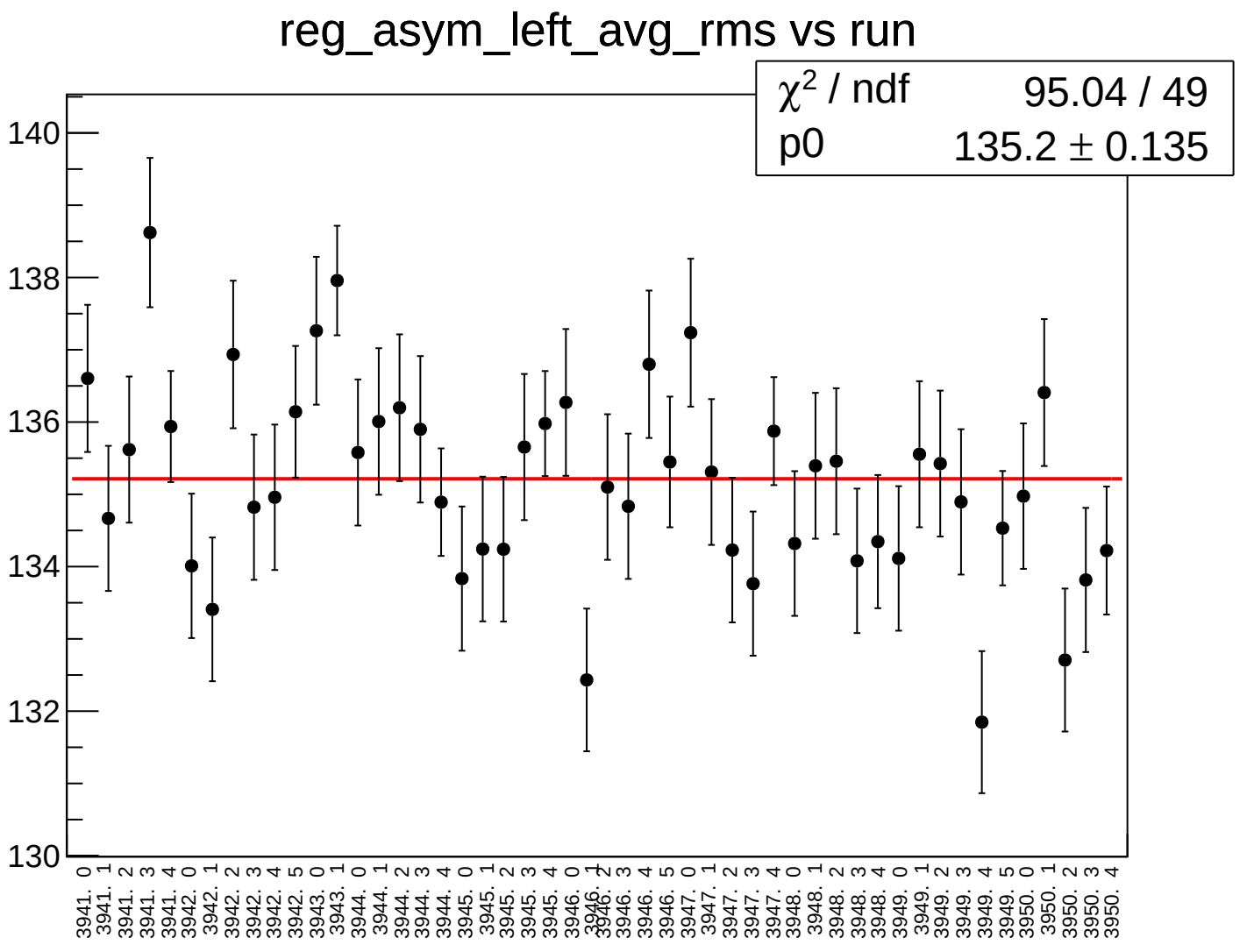
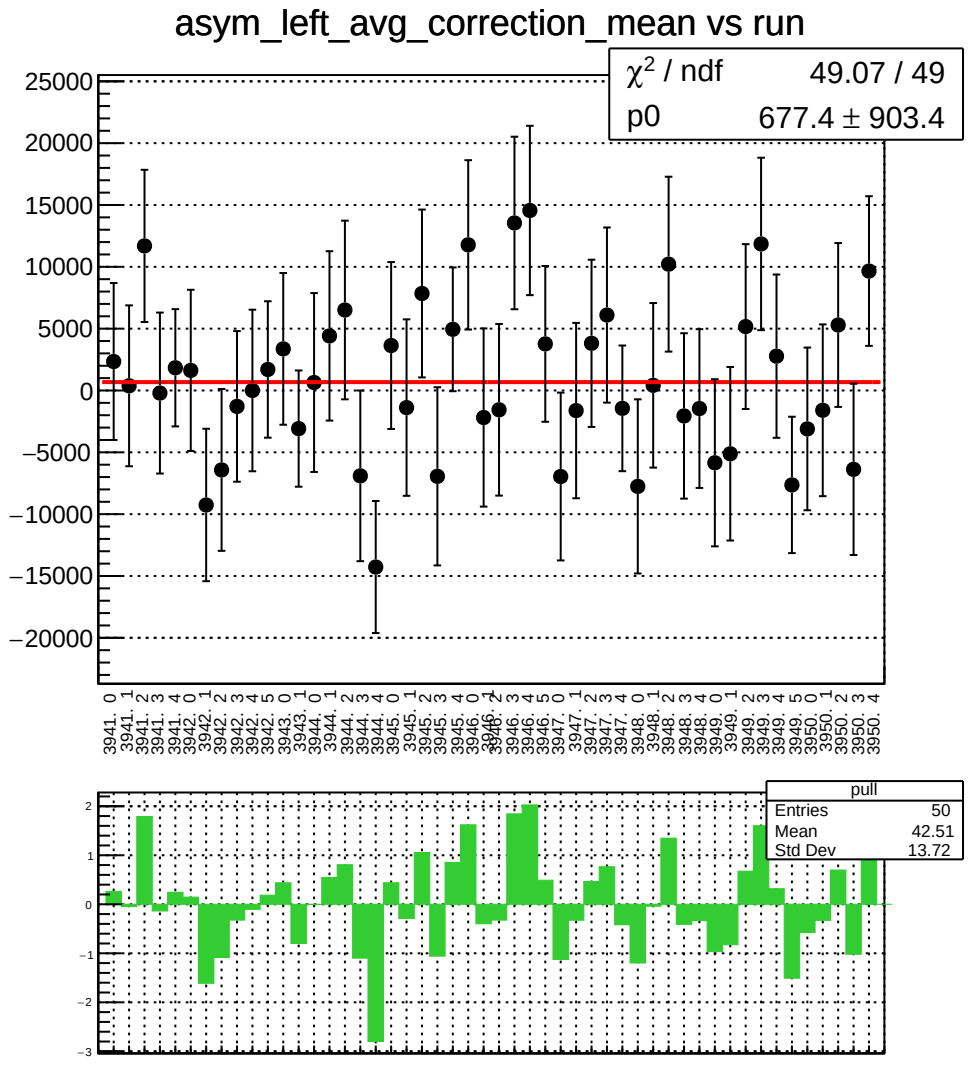
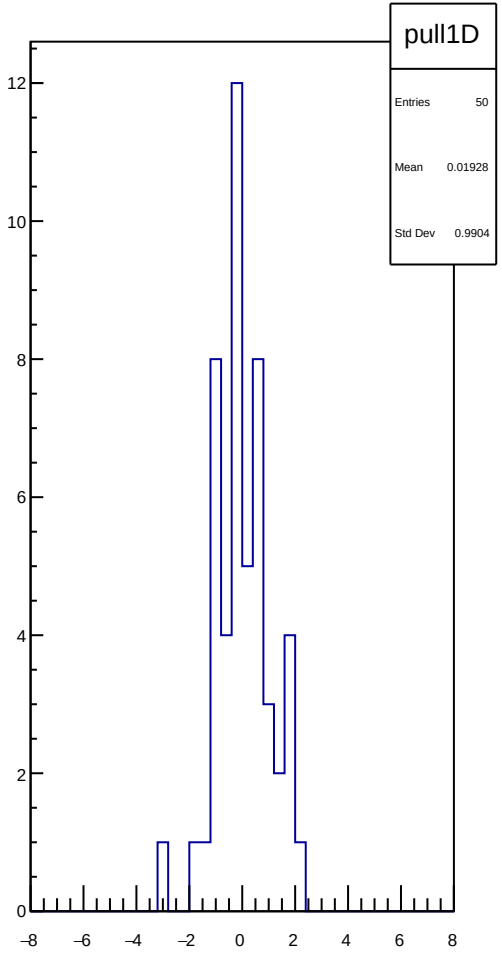
3950. 1
3950. 2
3950. 3
3950. 4

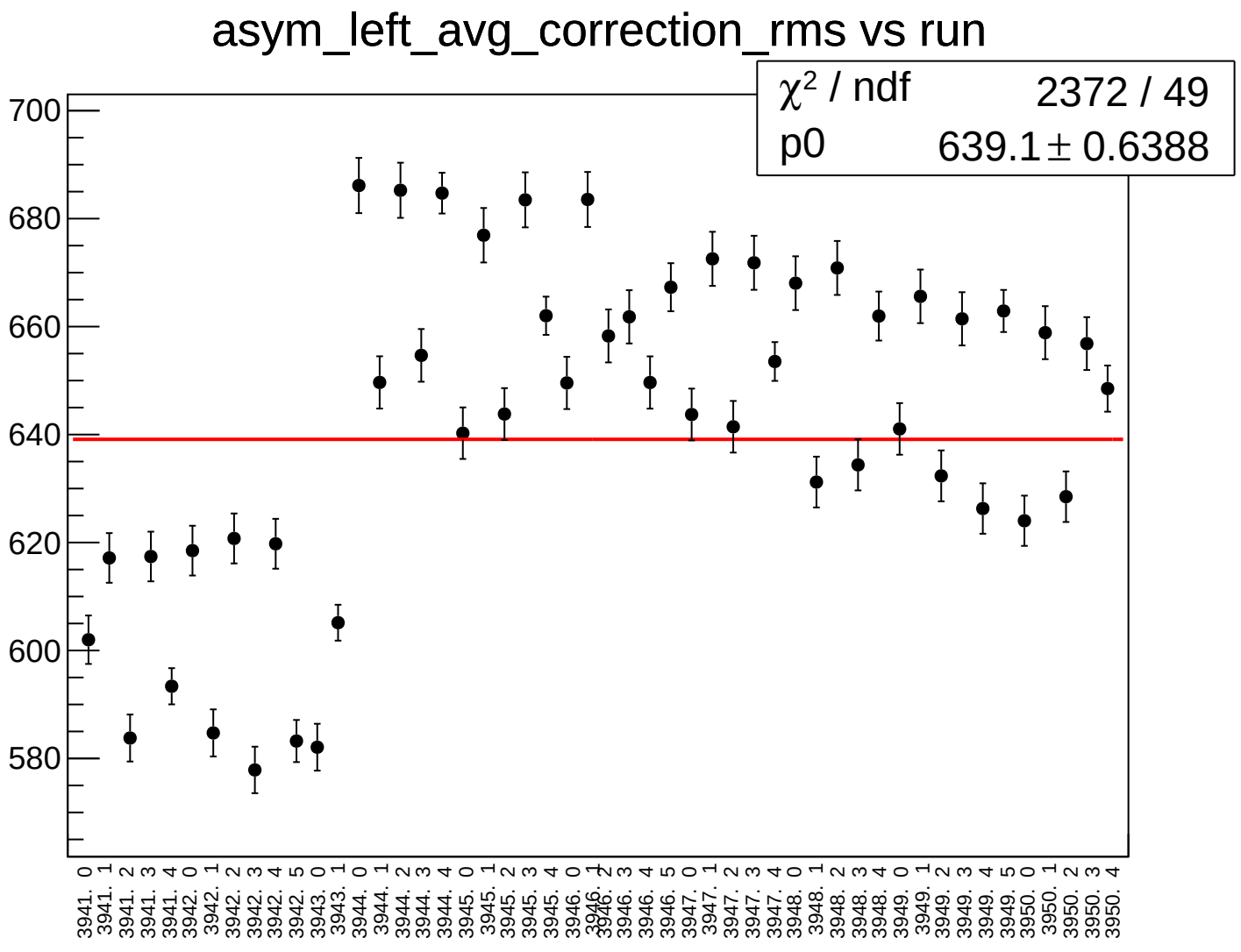

reg_asym_left_avg_mean vs run
χ² / ndf 63.39 / 49
p0 −364 ± 190.9
6000
4000
2000
0
−2000
−4000
−6000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −1.335
Std Dev 83.8
3
2
1
0
−1
−2
−3

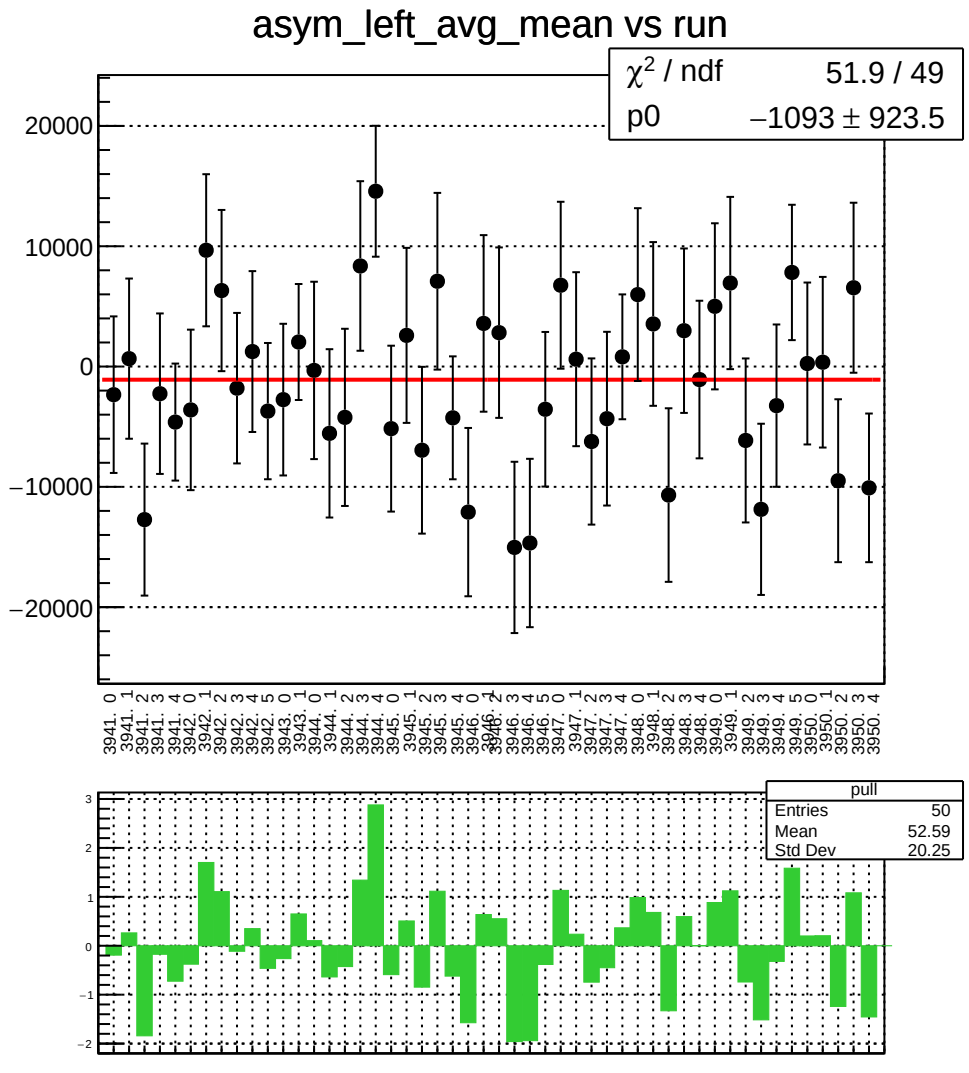

pull1D
Entries 50
Mean 0.01021
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

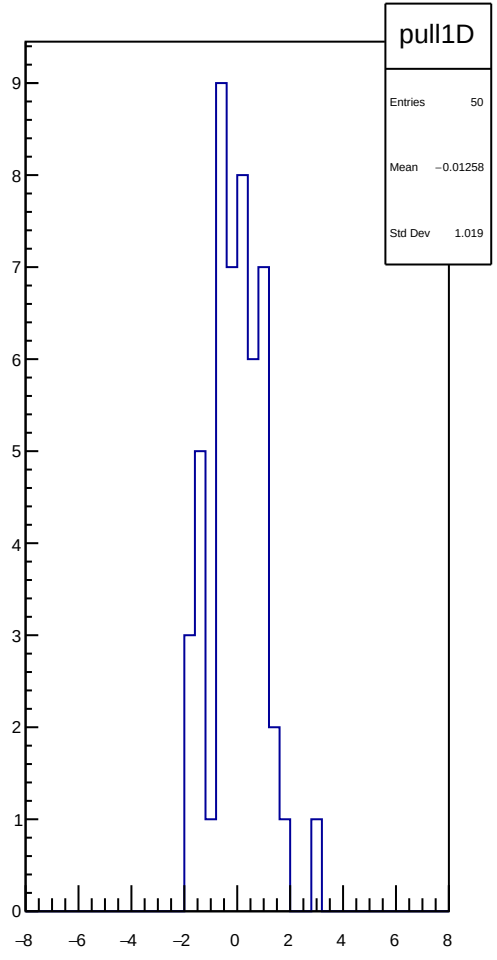

reg_asym_left_avg_rms vs run
χ² / ndf 95.04 / 49
p0 135.2 ± 0.135
140
138
136
134
132
130
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

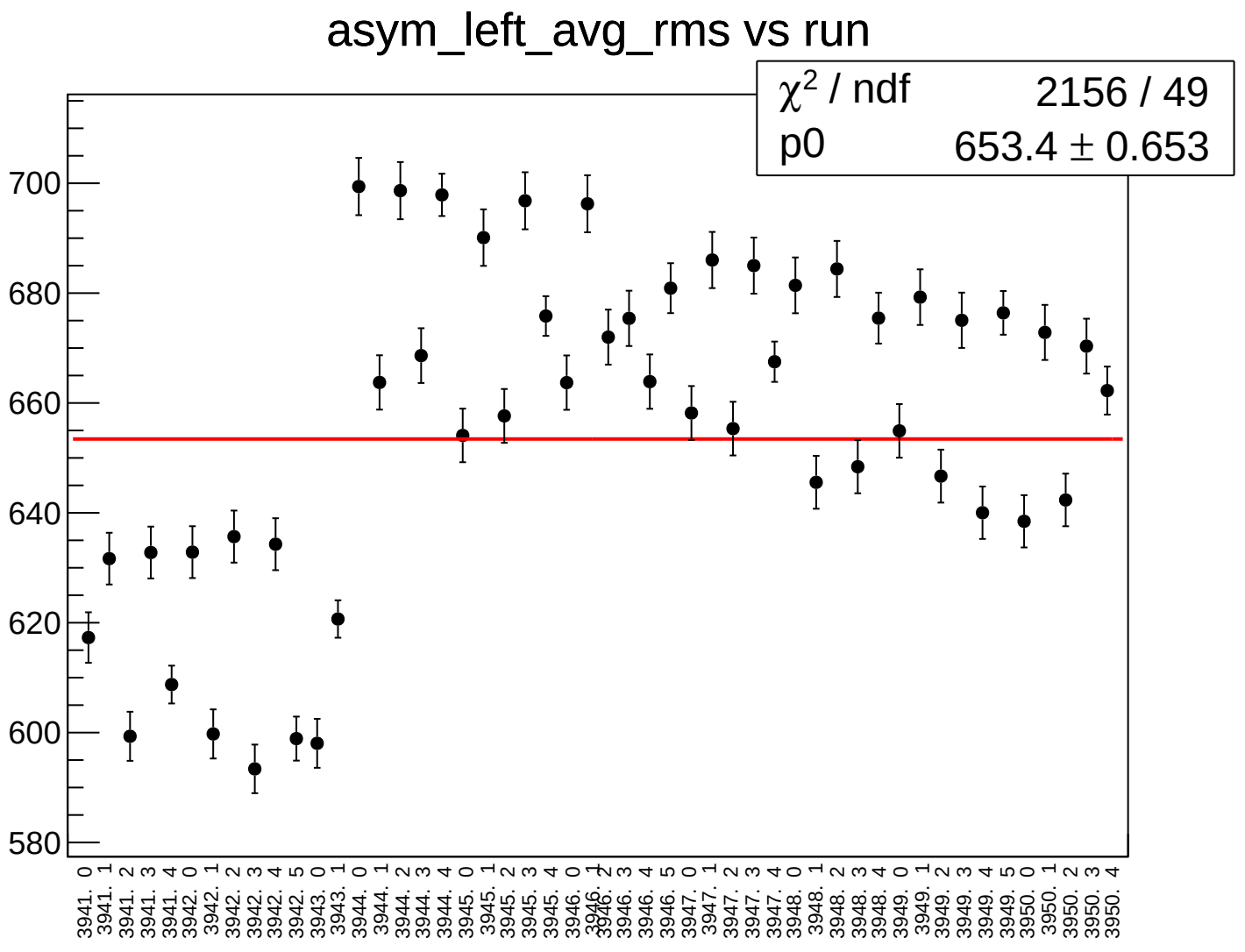

asym_left_avg_correction_mean vs run
χ² / ndf 49.07 / 49
p0 677.4 ± 903.4
pull
Entries 50
Mean 42.51
Std Dev 13.72

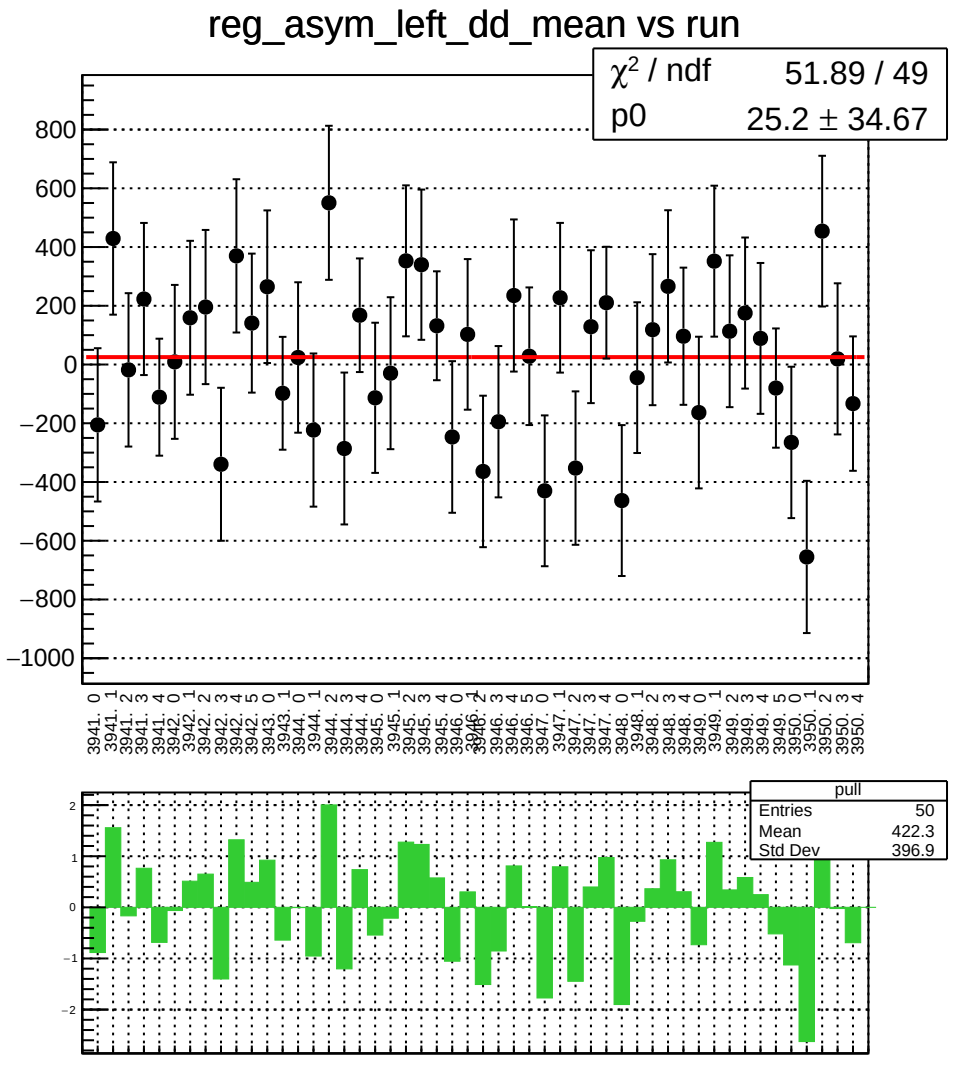

pull1D
Entries 50
Mean 0.01928
Std Dev 0.9904

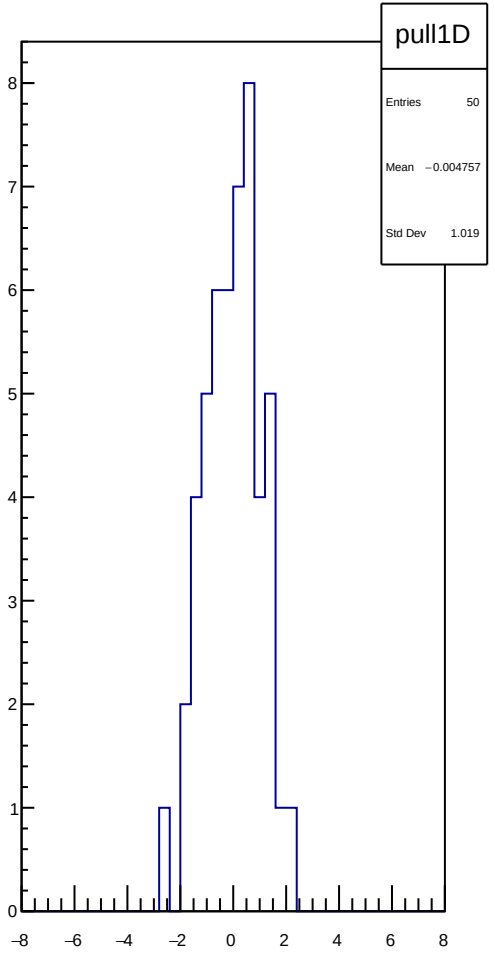

asym_left_avg_correction_rms vs run
χ² / ndf 2372 / 49
p0 639.1 ± 0.6388
700
680
660
640
620
600
580
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

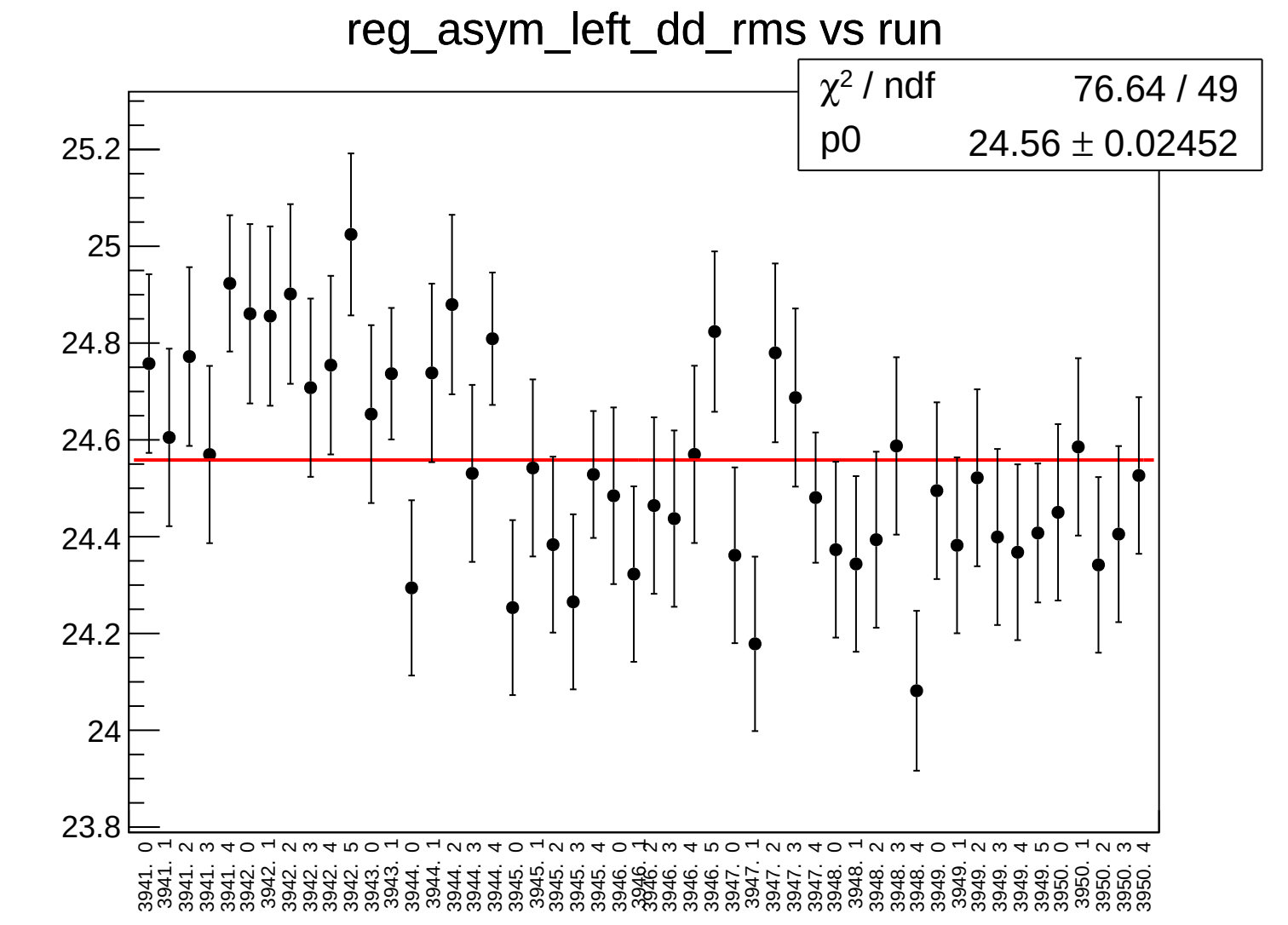

asym_left_avg_mean vs run
$\chi^2$ / ndf 51.9 / 49
p0 −1093 ± 923.5
20000
10000
0
−10000
−20000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 52.59
Std Dev 20.25
3
2
1
0
−1
−2

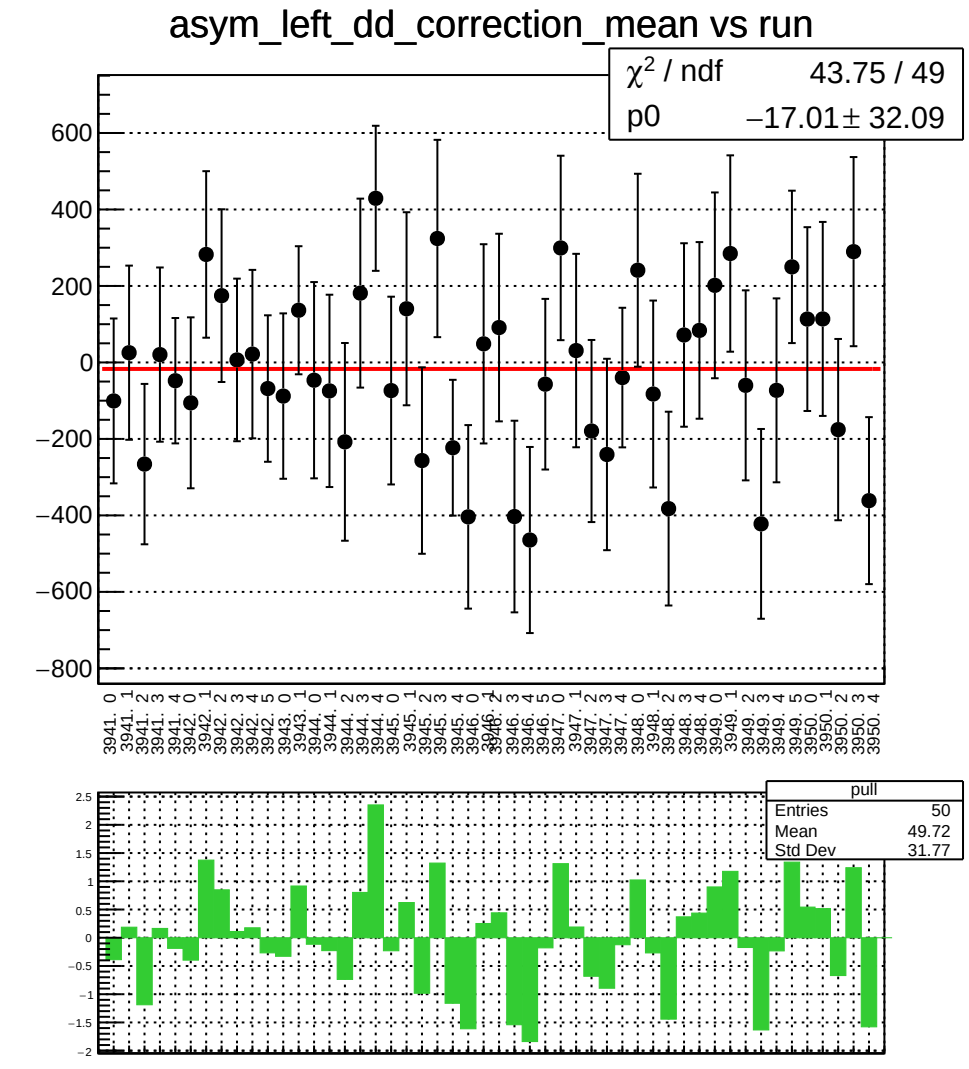

pull1D
Entries 50
Mean −0.01258
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

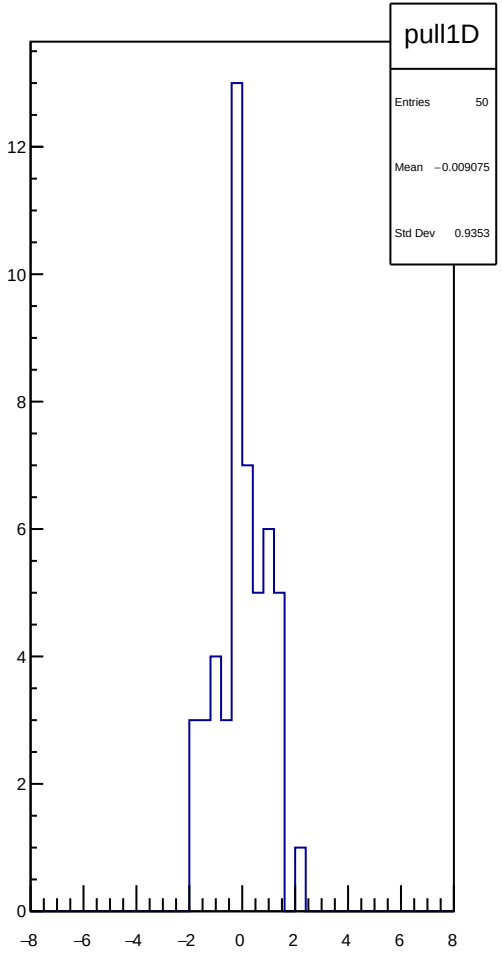

asym_left_avg_rms vs run
χ² / ndf 2156 / 49
p0 653.4 ± 0.653
700
680
660
640
620
600
580
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

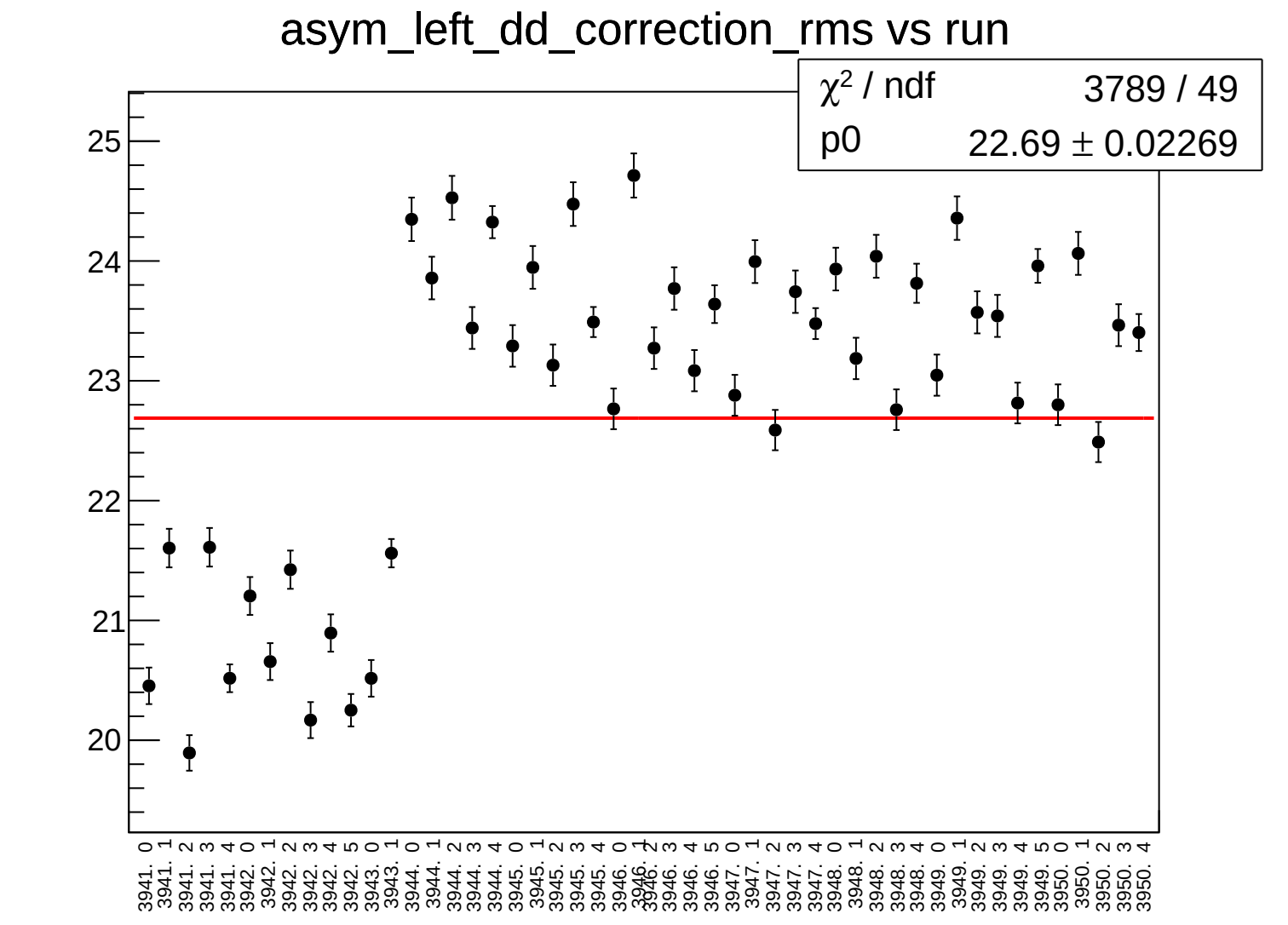

reg_asym_left_dd_mean vs run
χ² / ndf 51.89 / 49
p0 25.2 ± 34.67
pull
Entries 50
Mean 422.3
Std Dev 396.9

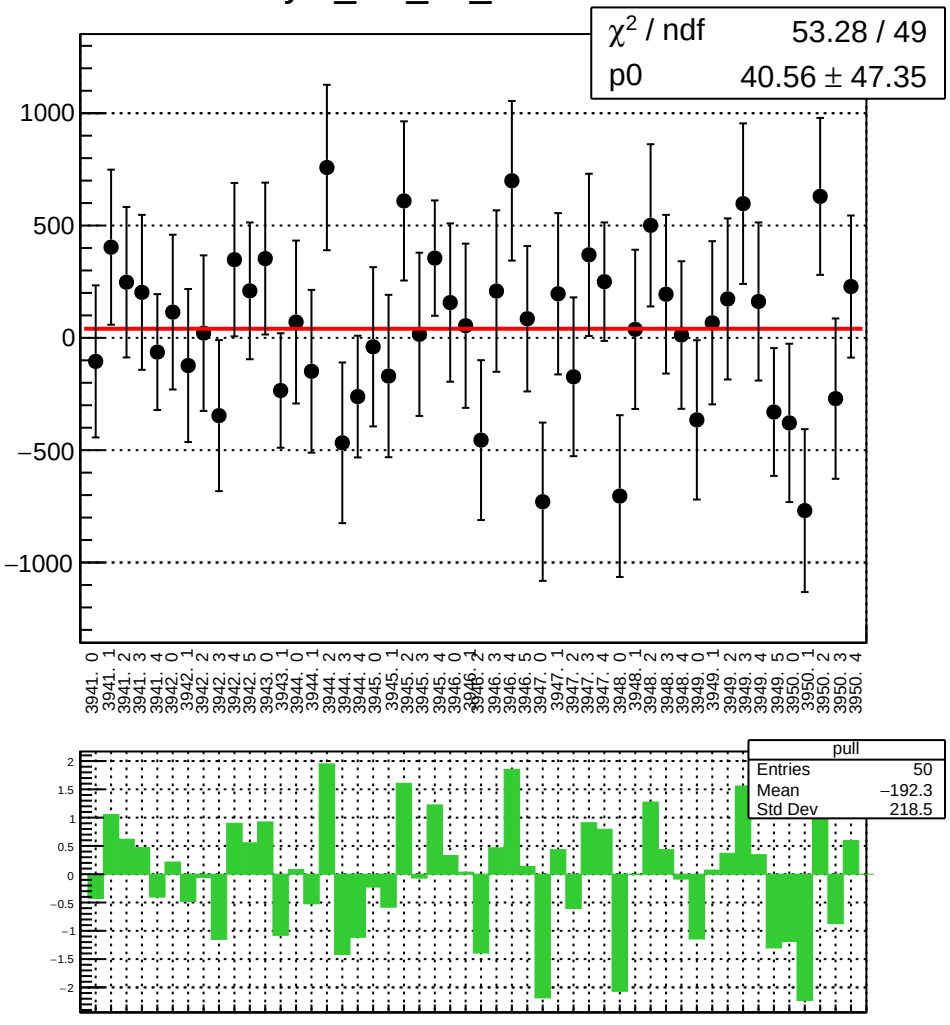

pull1D
Entries 50
Mean −0.004757
Std Dev 1.019

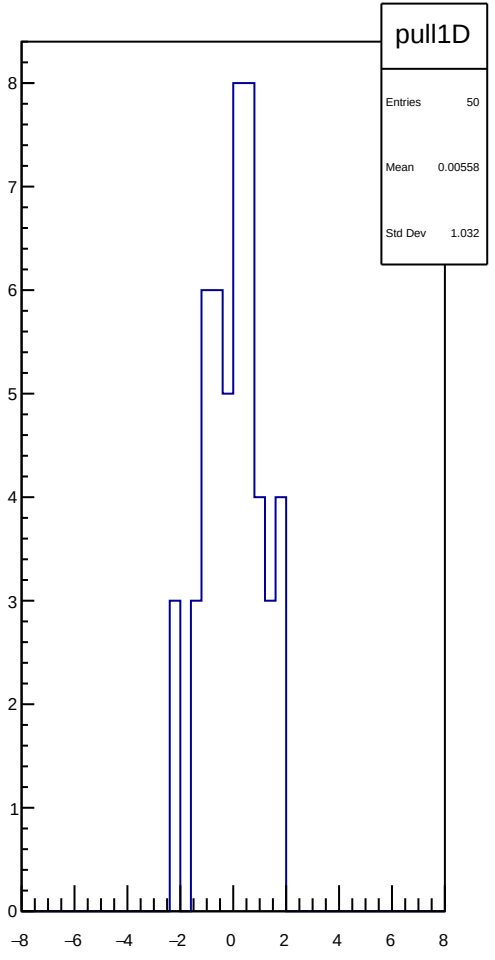

reg_asym_left_dd_rms vs run
χ² / ndf 76.64 / 49
p0 24.56 ± 0.02452
25.2
25
24.8
24.6
24.4
24.2
24
23.8
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

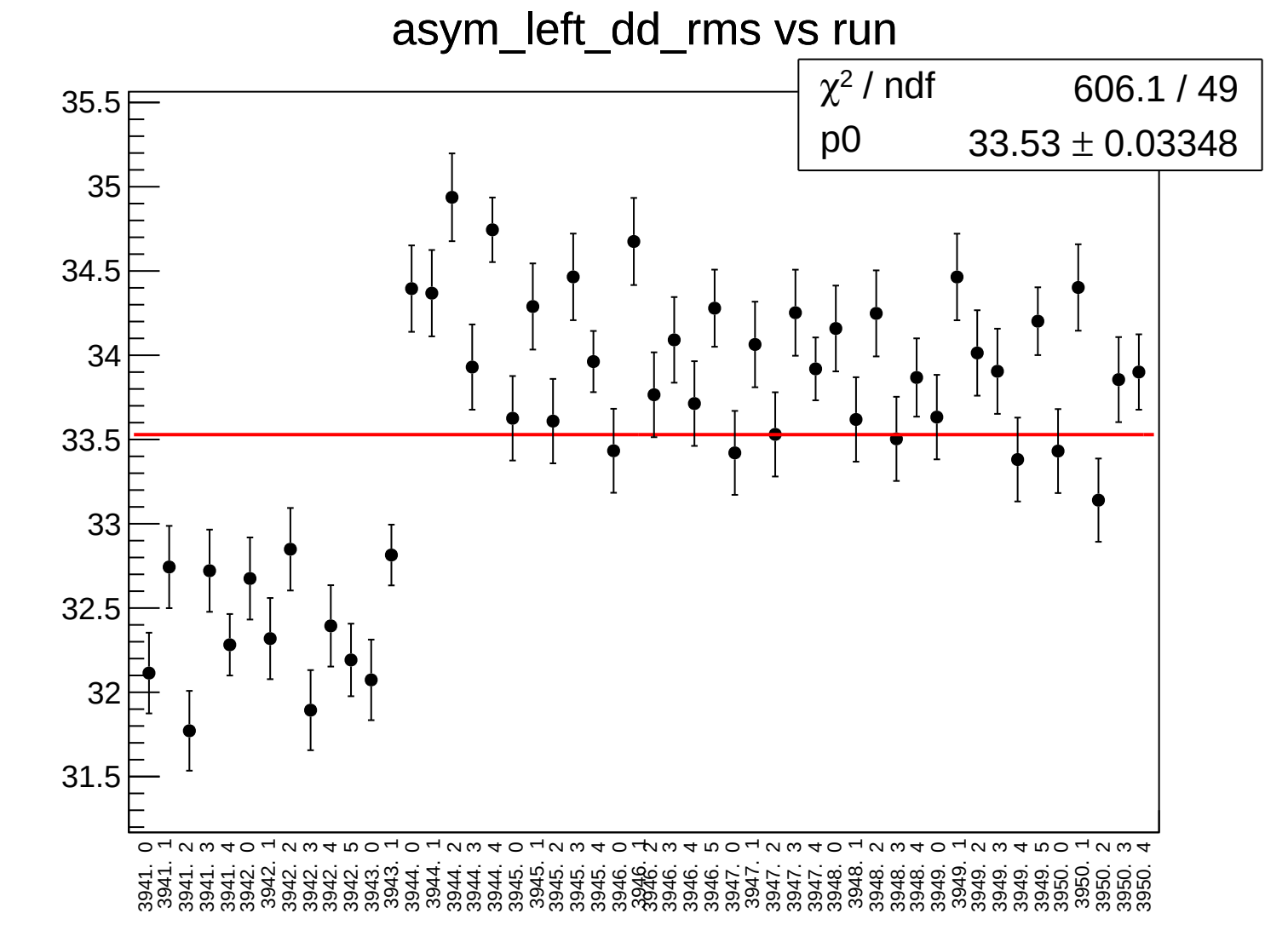

asym_left_dd_correction_mean vs run
χ² / ndf 43.75 / 49
p0 −17.01 ± 32.09
pull
Entries 50
Mean 49.72
Std Dev 31.77

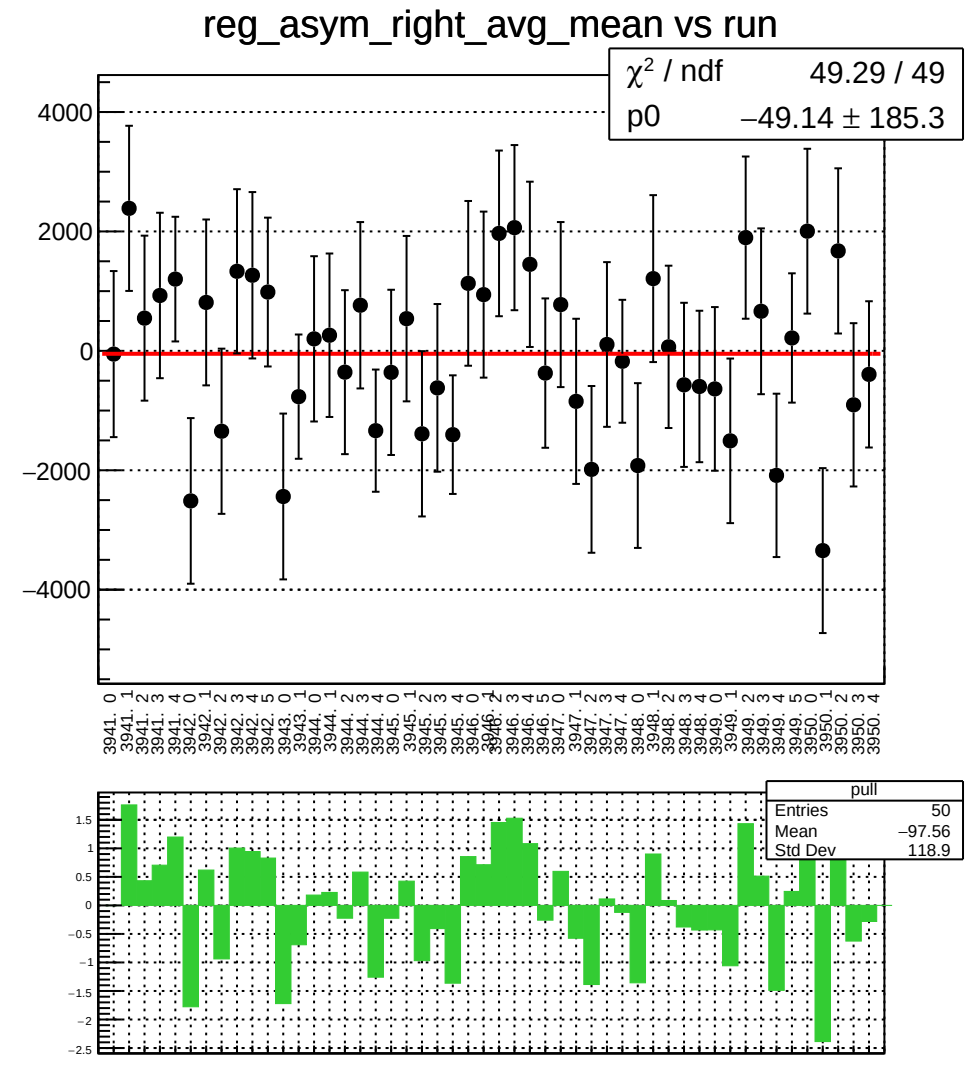

pull1D
Entries 50
Mean −0.009075
Std Dev 0.9353

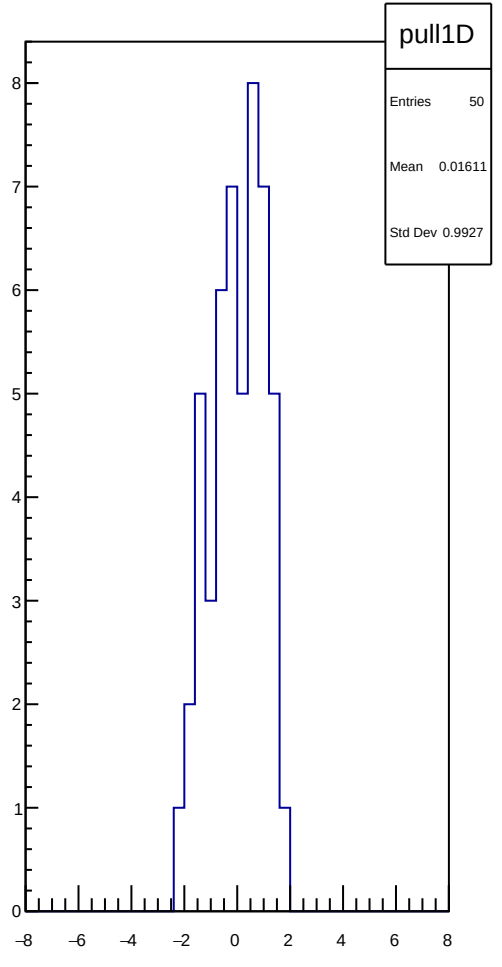

asym_left_dd_correction_rms vs run
χ² / ndf 3789 / 49
p0 22.69 ± 0.02269
25
24
23
22
21
20
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

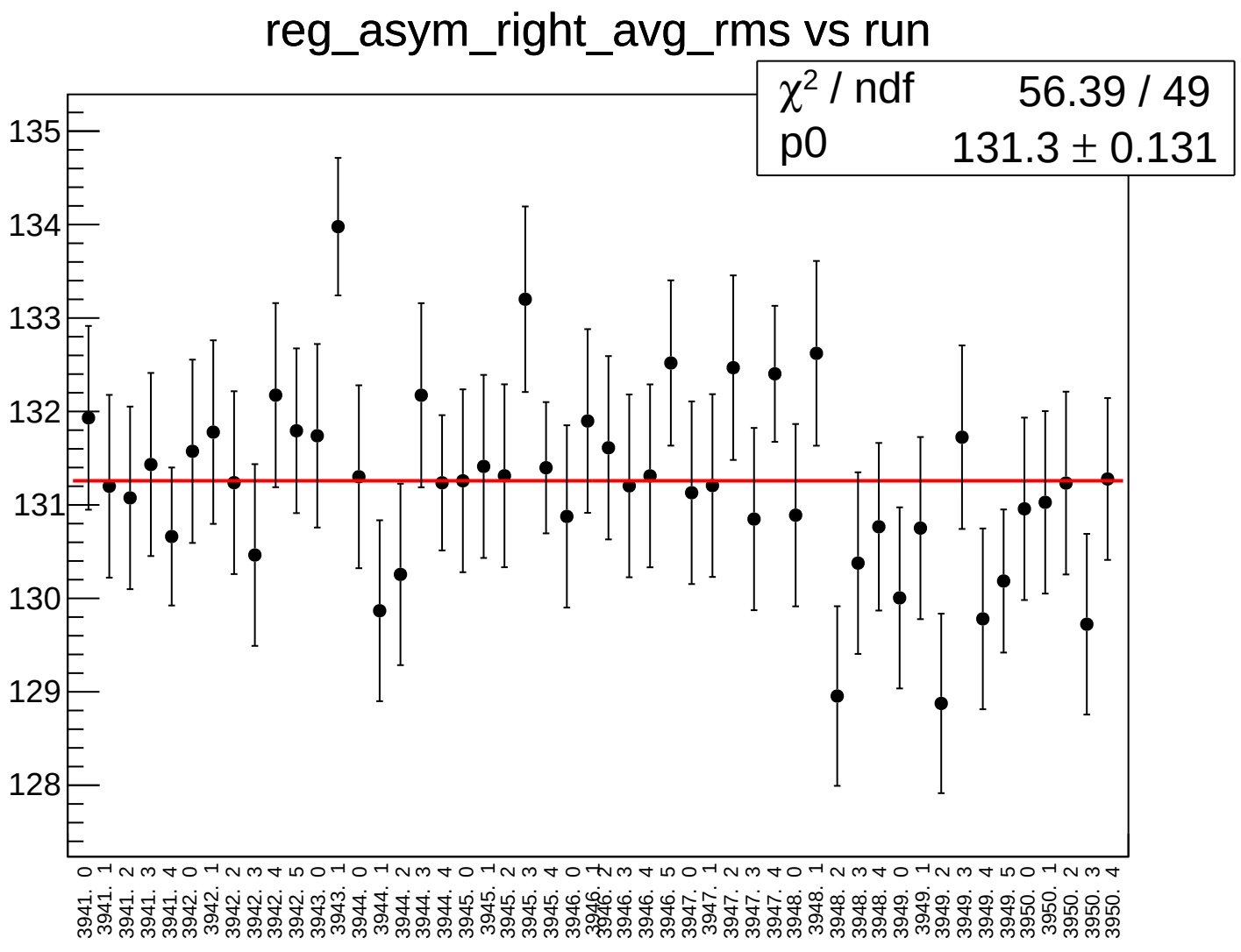

asym_left_dd_mean vs run
χ² / ndf 53.28 / 49
p0 40.56 ± 47.35
1000
500
0
−500
−1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −192.3
Std Dev 218.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

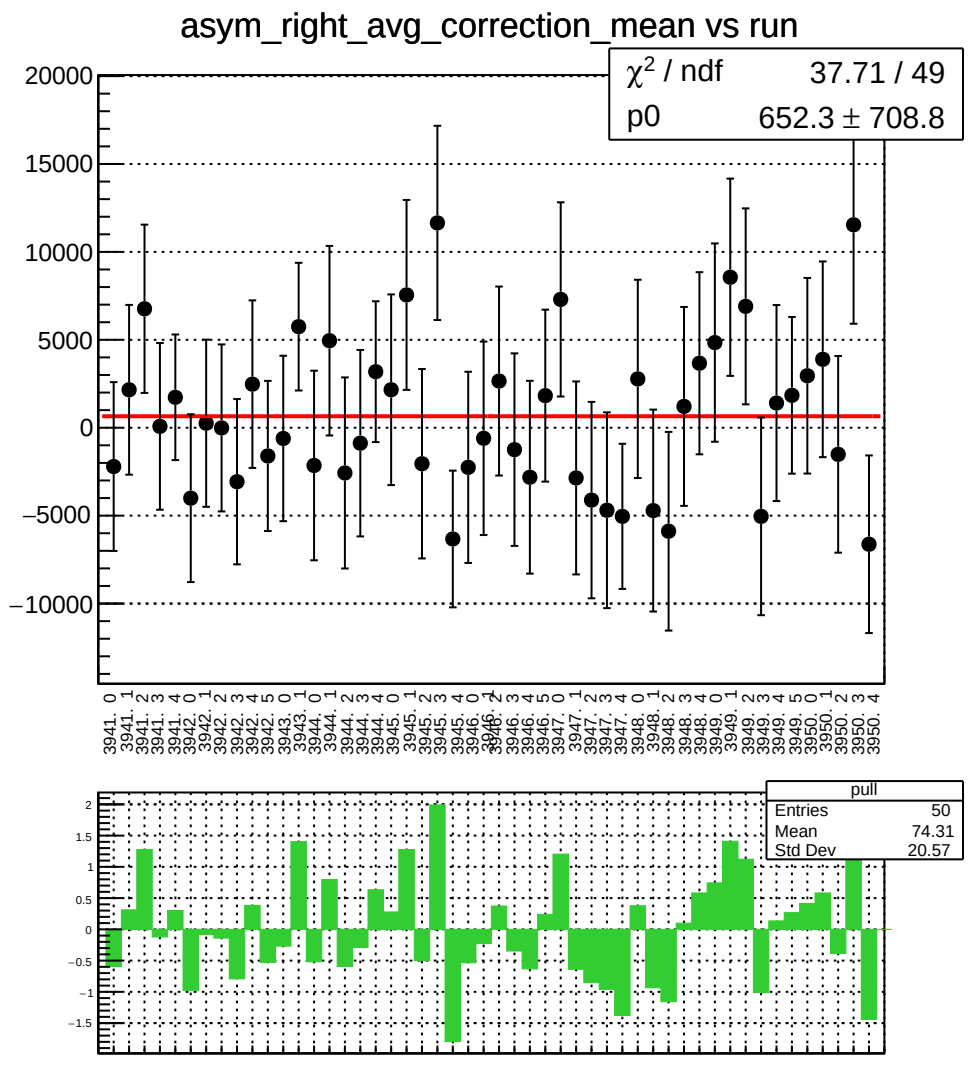

pull1D
Entries 50
Mean 0.00558
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

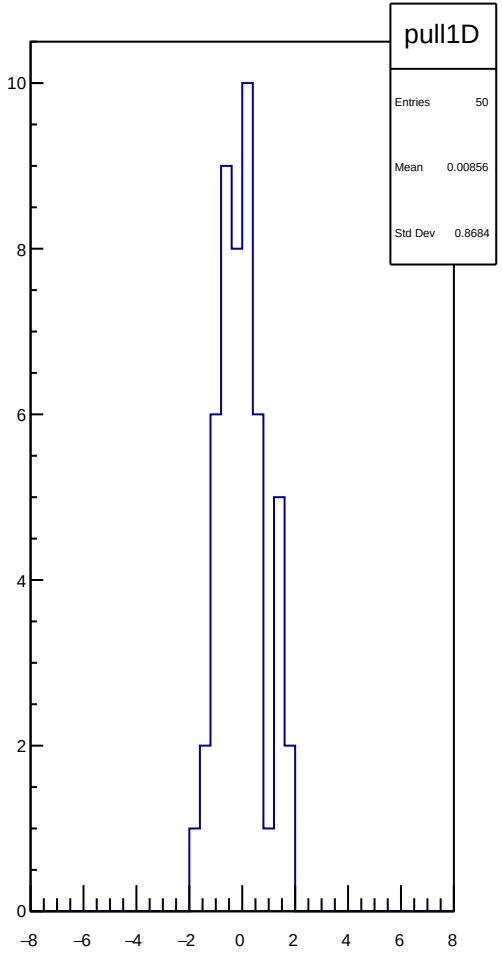

asym_left_dd_rms vs run
χ² / ndf 606.1 / 49
p0 33.53 ± 0.03348
35.5
35
34.5
34
33.5
33
32.5
32
31.5
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

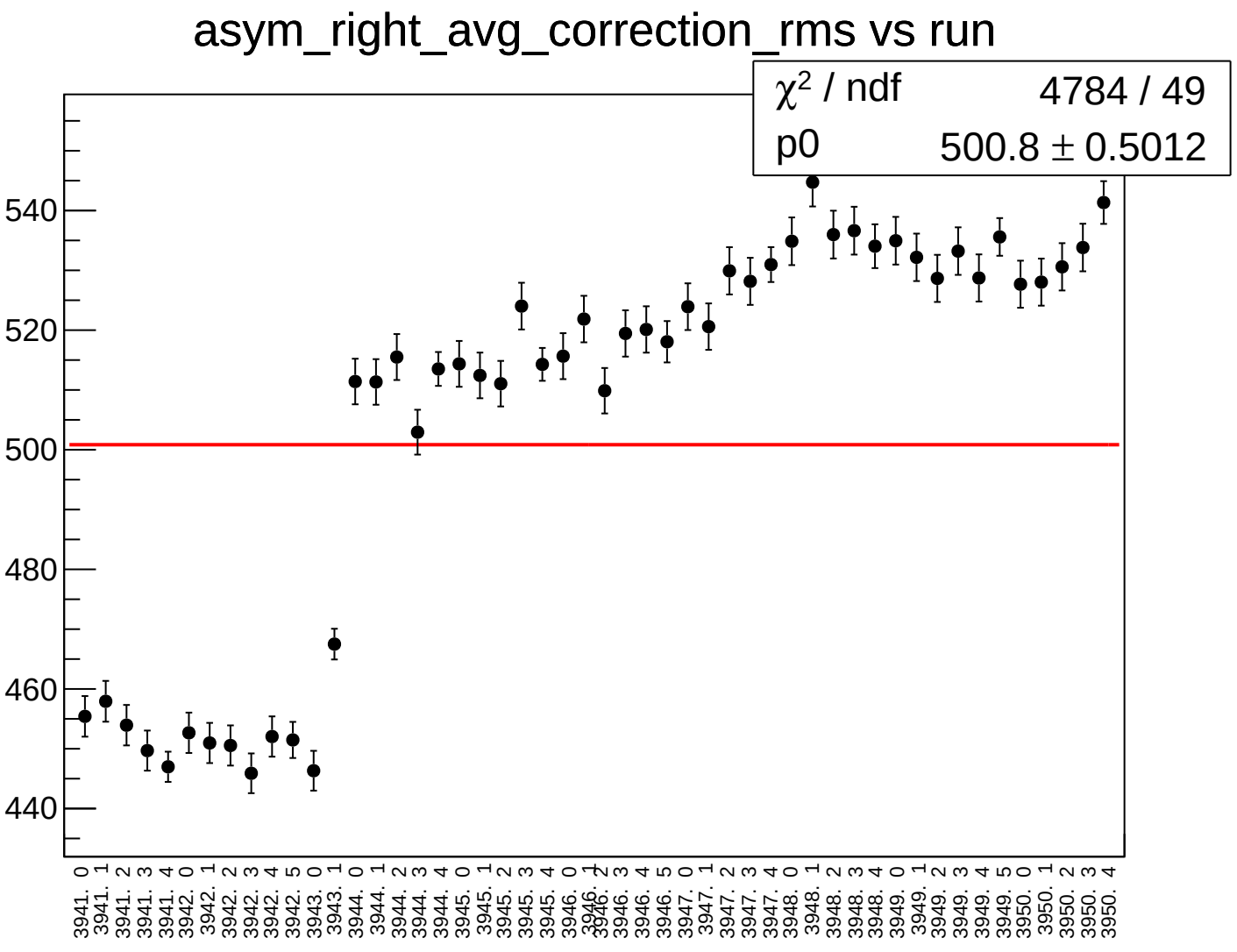

reg_asym_right_avg_mean vs run
χ² / ndf 49.29 / 49
p0 −49.14 ± 185.3
4000
2000
0
−2000
−4000
pull
Entries 50
Mean −97.56
Std Dev 118.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

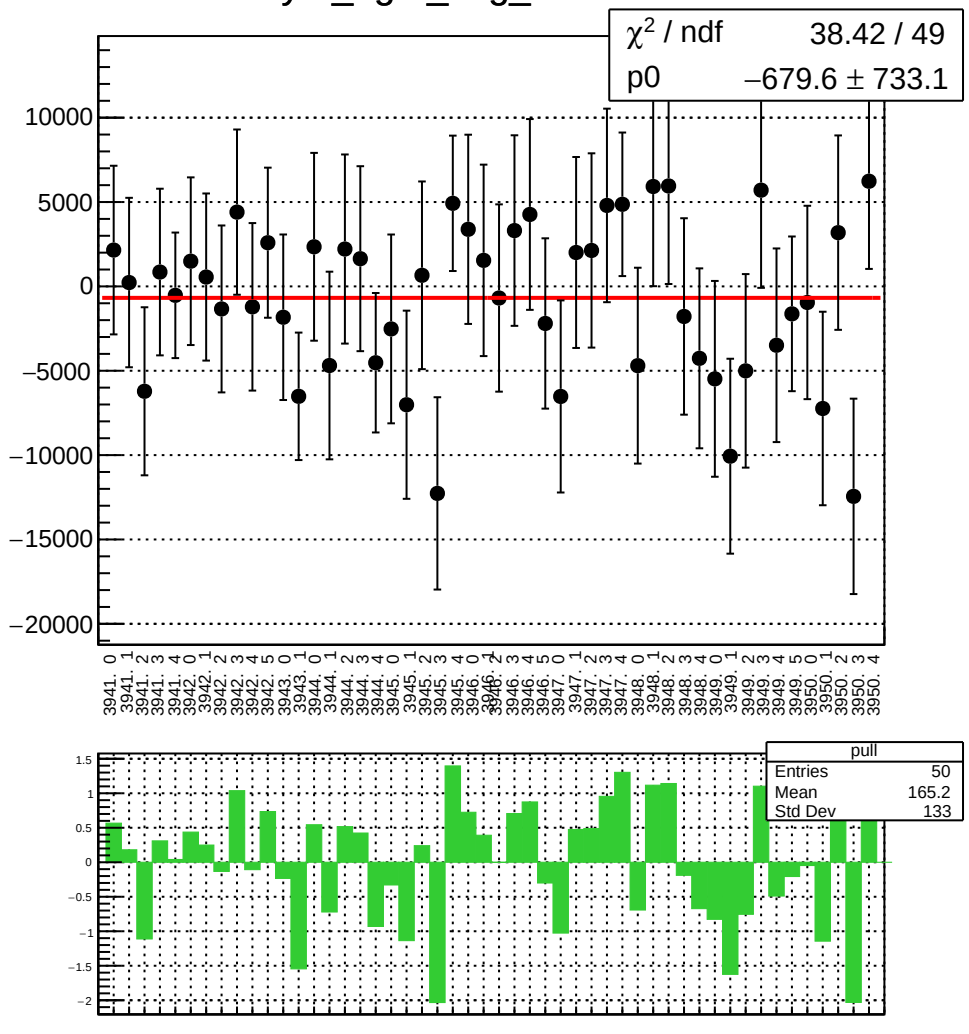

pull1D
Entries 50
Mean 0.01611
Std Dev 0.9927
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

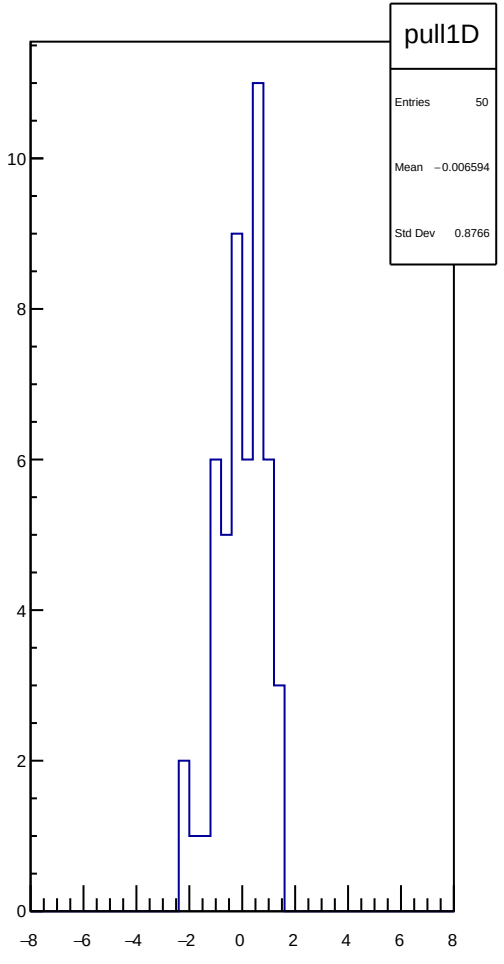

reg_asym_right_avg_rms vs run
χ² / ndf 56.39 / 49
p0 131.3 ± 0.131
135
134
133
132
131
130
129
128
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

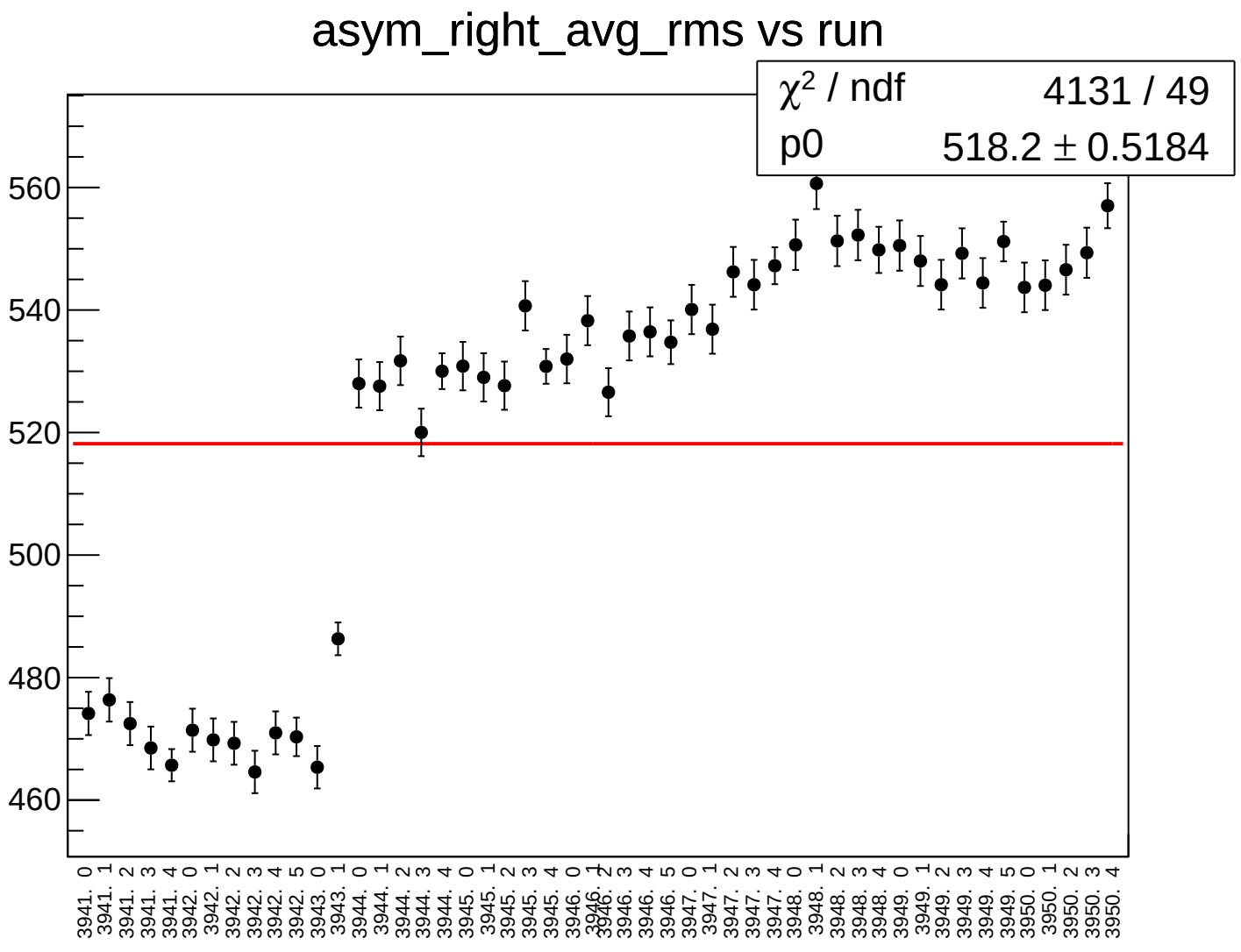

asym_right_avg_correction_mean vs run
χ² / ndf 37.71 / 49
p0 652.3 ± 708.8
pull
Entries 50
Mean 74.31
Std Dev 20.57


pull1D
Entries 50
Mean 0.00856
Std Dev 0.8684


asym_right_avg_correction_rms vs run
χ² / ndf 4784 / 49
p0 500.8 ± 0.5012
540
520
500
480
460
440
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_right_avg_mean vs run
χ² / ndf 38.42 / 49
p0 −679.6 ± 733.1
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 50
Mean 165.2
Std Dev 133
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.006594
Std Dev 0.8766
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_avg_rms vs run
χ² / ndf 4131 / 49
p0 518.2 ± 0.5184
560
540
520
500
480
460
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
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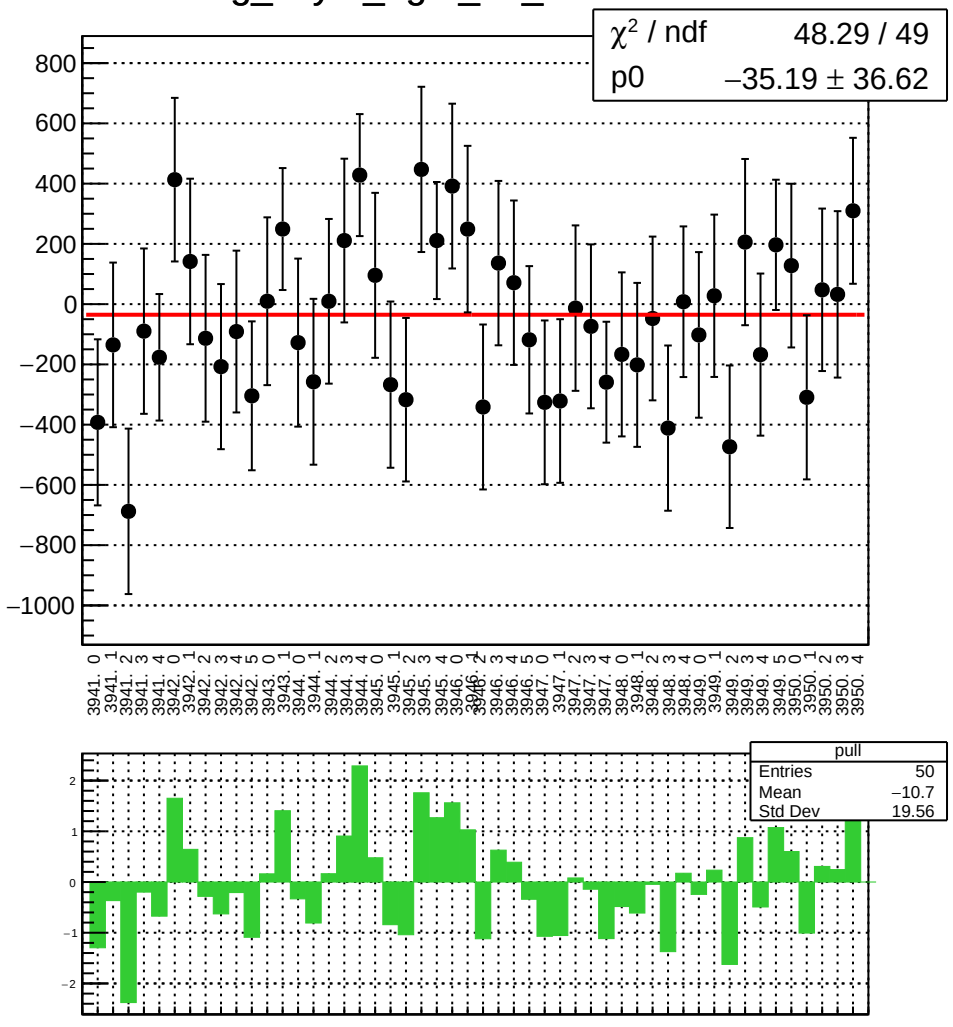
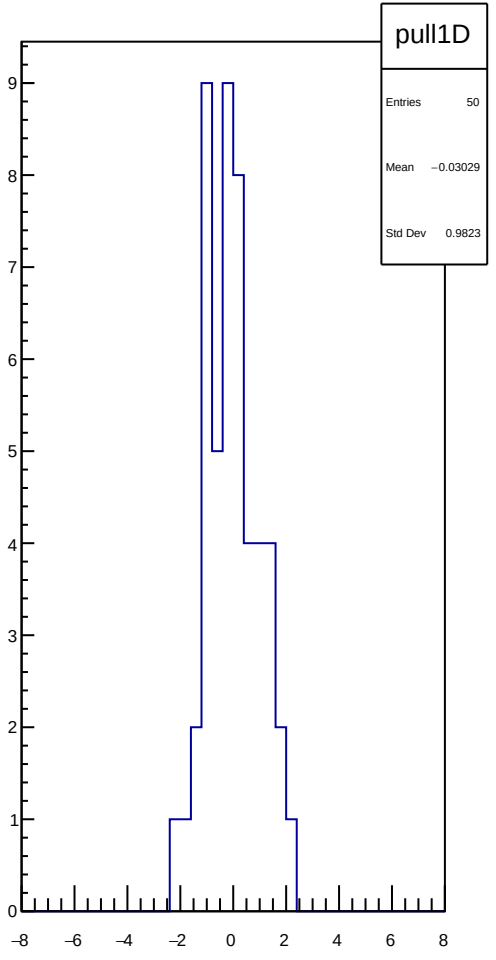
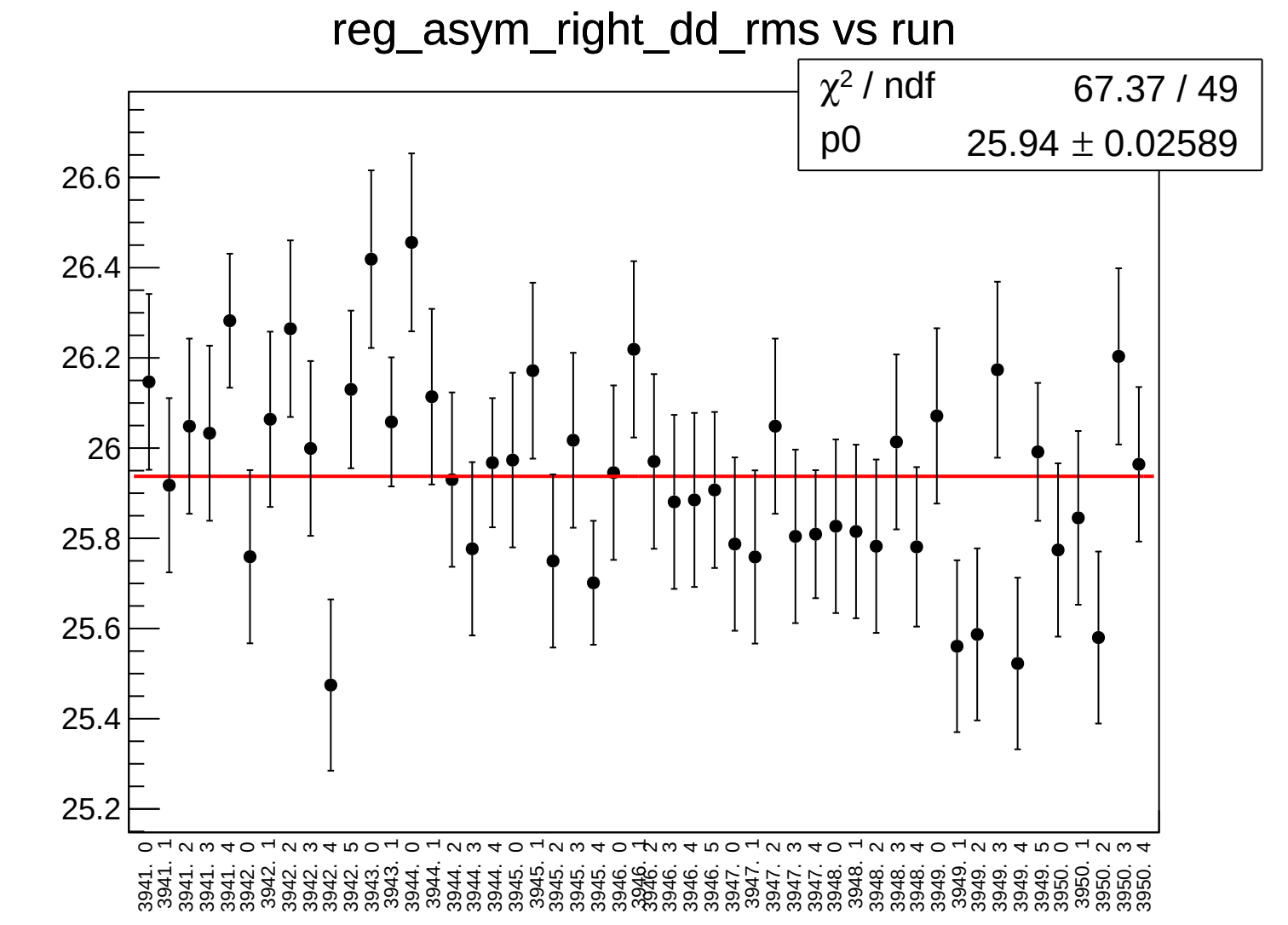
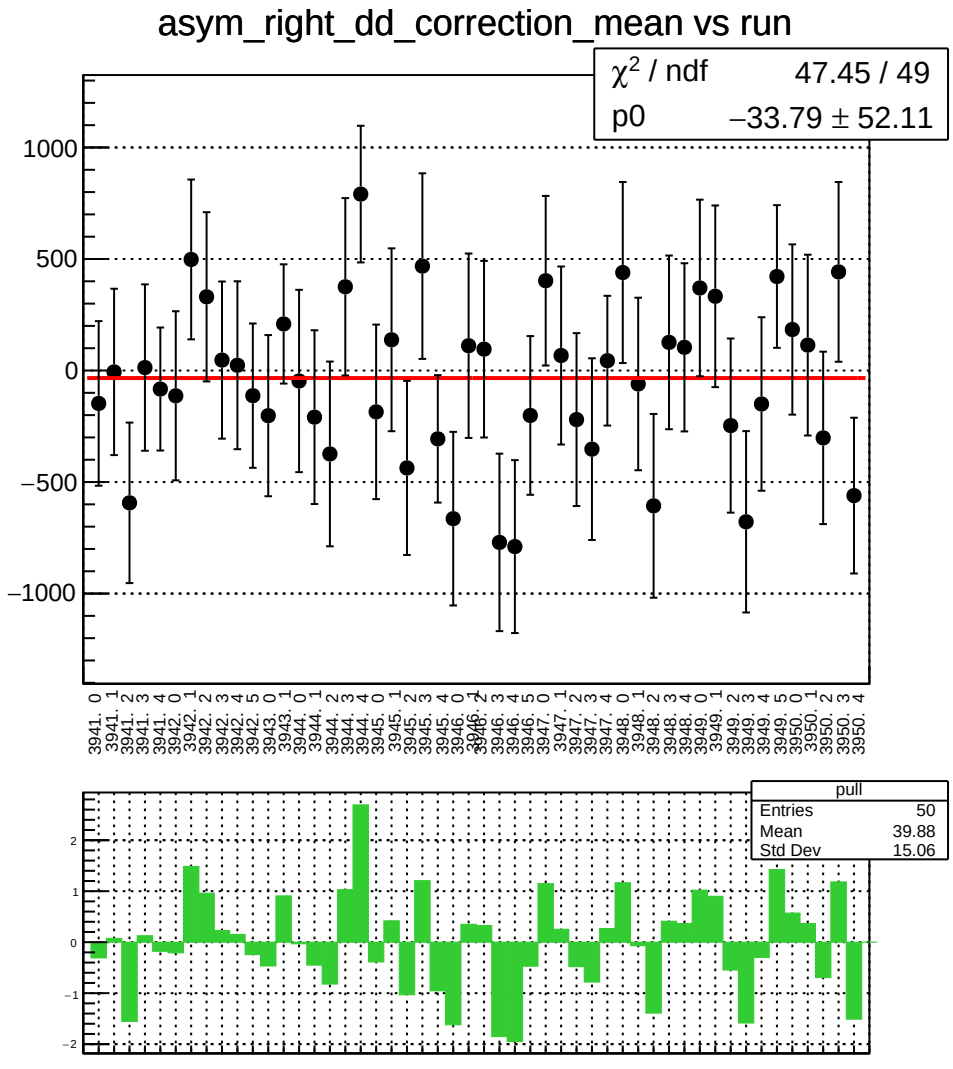
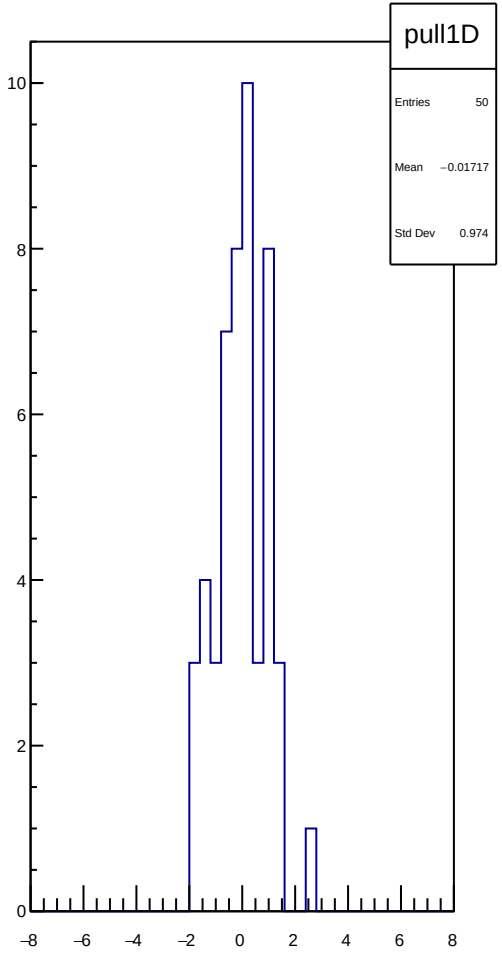
3950. 2
3950. 3
3950. 4

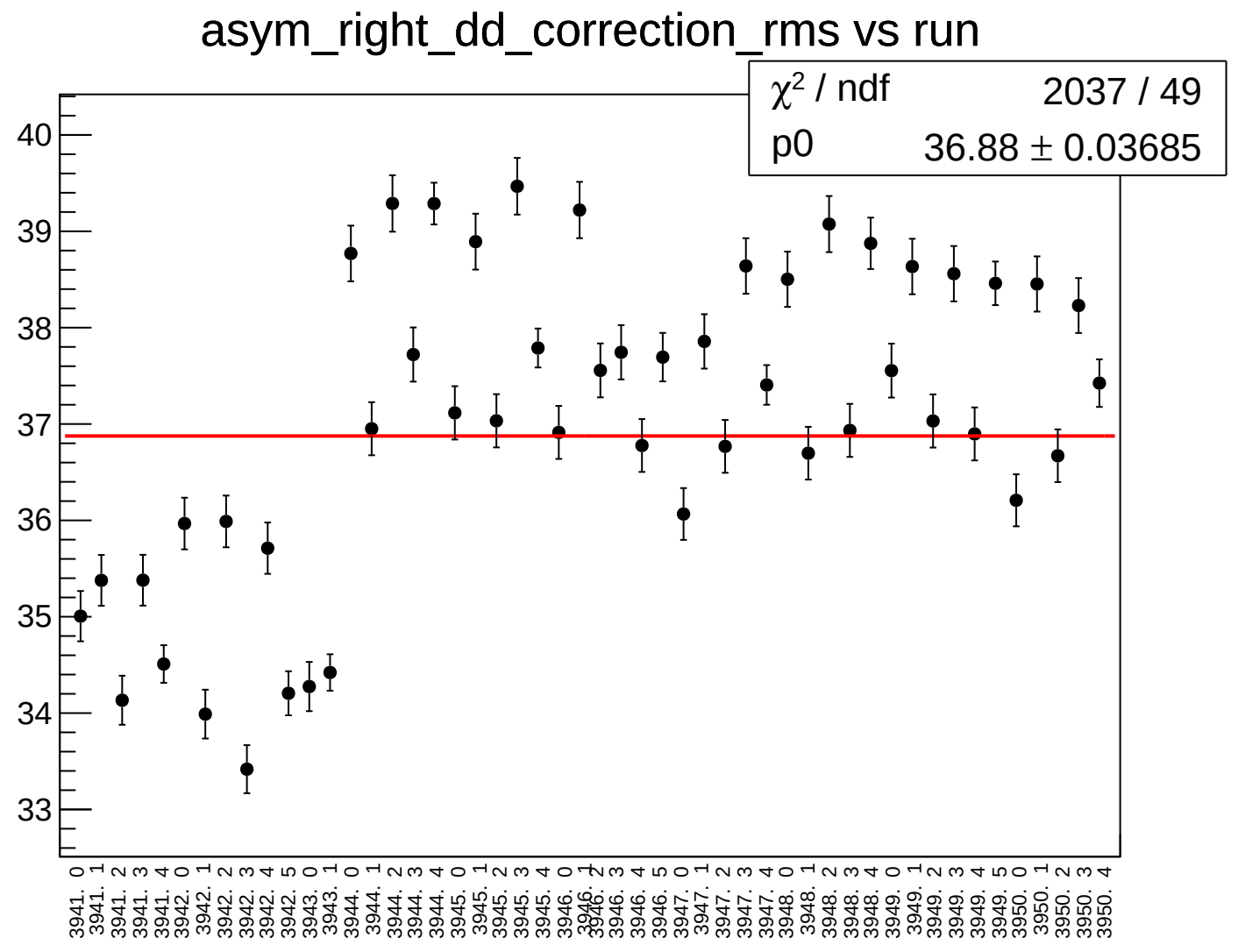

reg_asym_right_dd_mean vs run
χ² / ndf 48.29 / 49
p0 −35.19 ± 36.62
pull
Entries 50
Mean −10.7
Std Dev 19.56

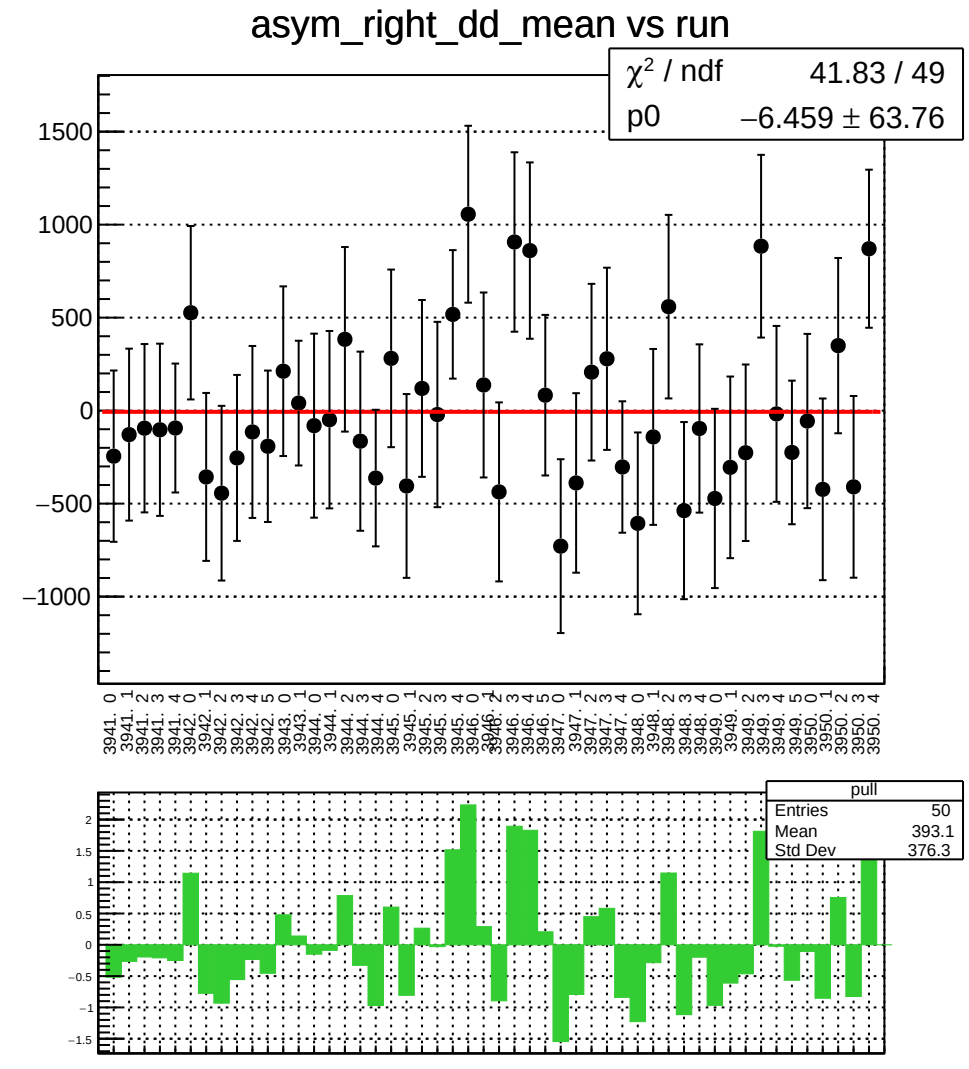

pull1D
Entries 50
Mean −0.03029
Std Dev 0.9823

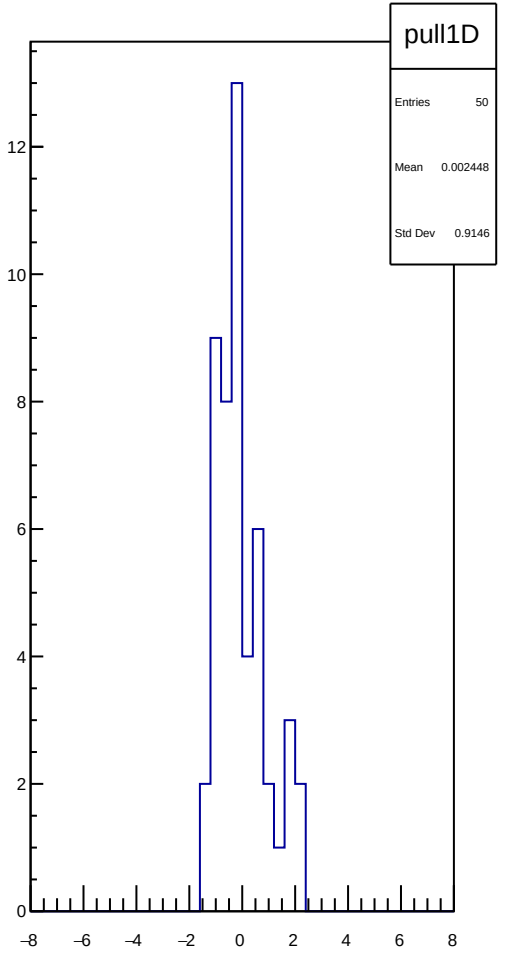

reg_asym_right_dd_rms vs run
χ² / ndf 67.37 / 49
p0 25.94 ± 0.02589
26.6
26.4
26.2
26
25.8
25.6
25.4
25.2
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

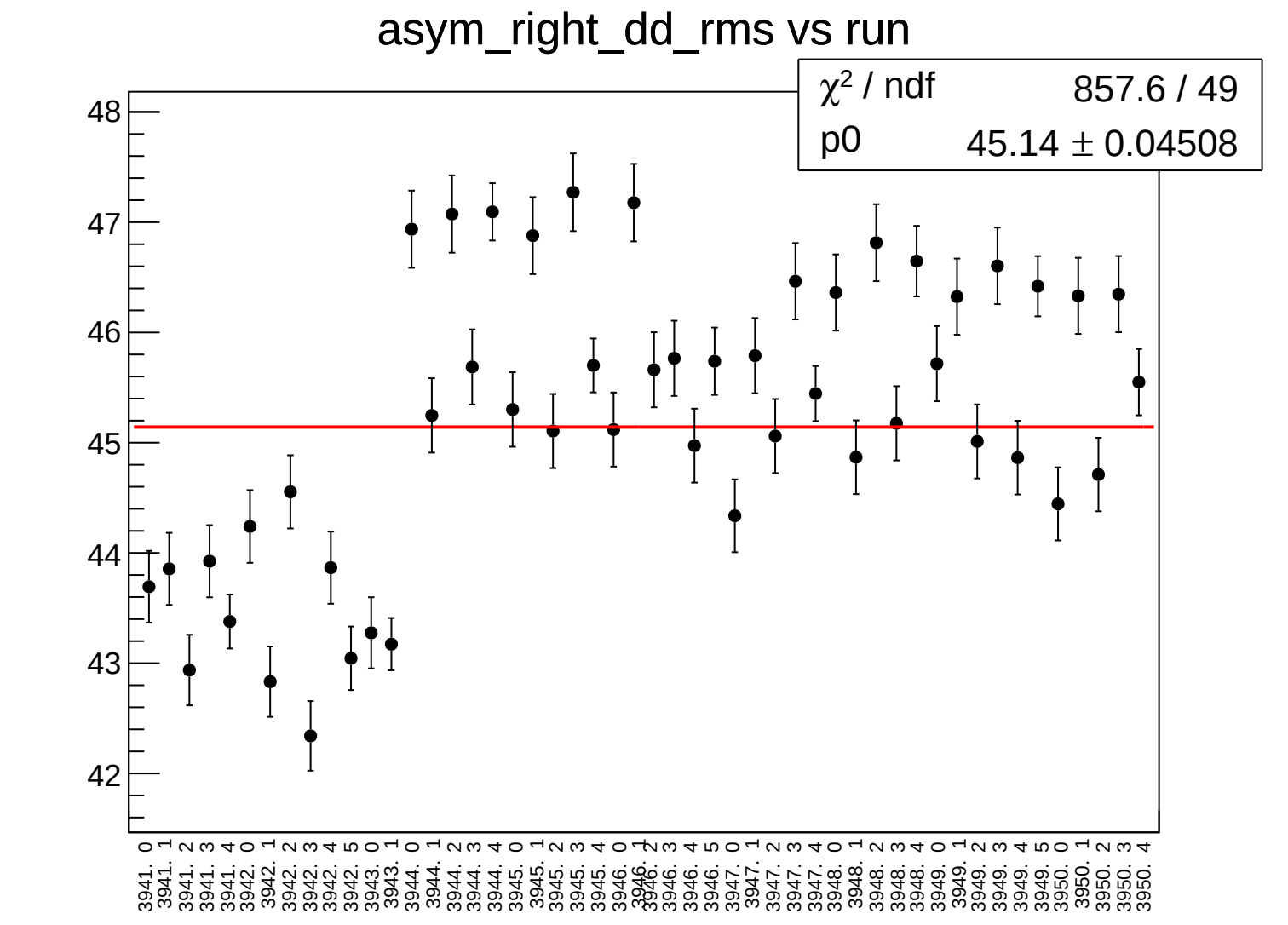

asym_right_dd_correction_mean vs run
χ² / ndf 47.45 / 49
p0 −33.79 ± 52.11
1000
500
0
−500
−1000
pull
Entries 50
Mean 39.88
Std Dev 15.06
2
1
0
−1
−2

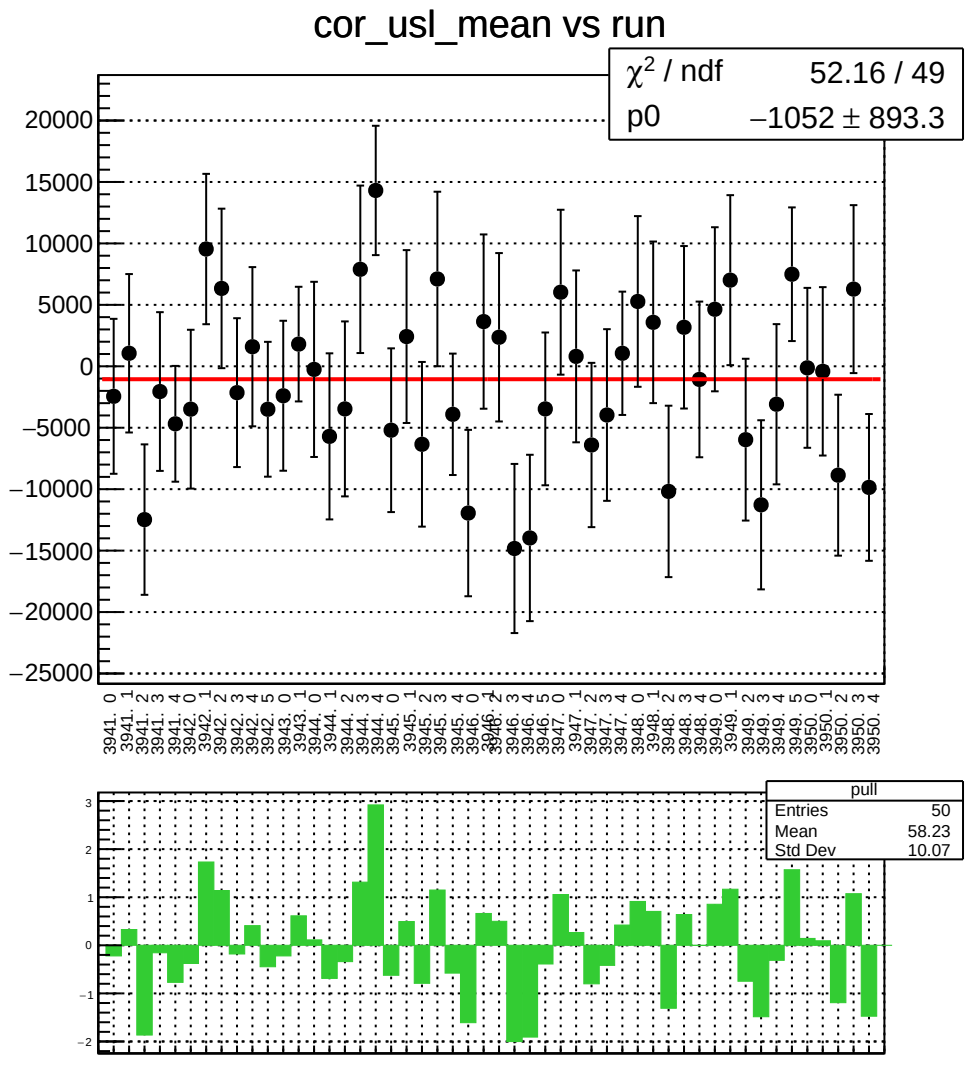

pull1D
Entries 50
Mean −0.01717
Std Dev 0.974
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

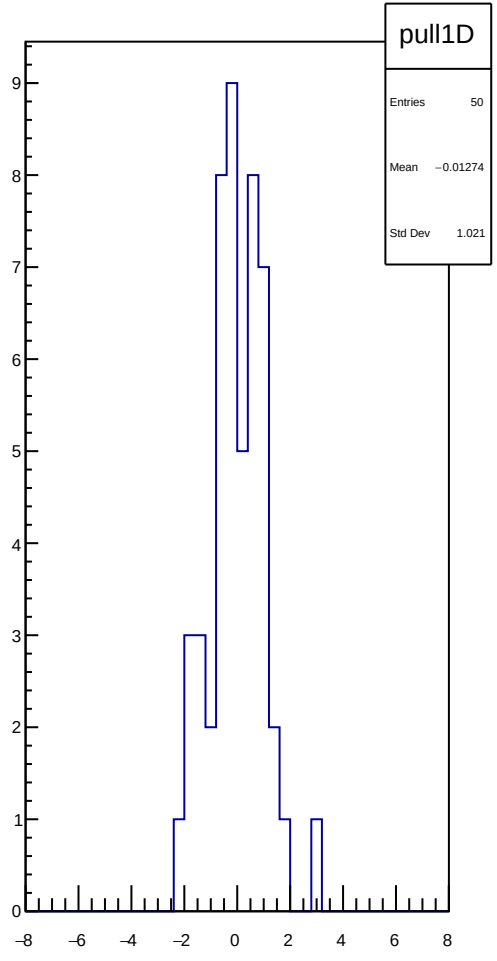

asym_right_dd_correction_rms vs run
χ² / ndf 2037 / 49
p0 36.88 ± 0.03685
40
39
38
37
36
35
34
33
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

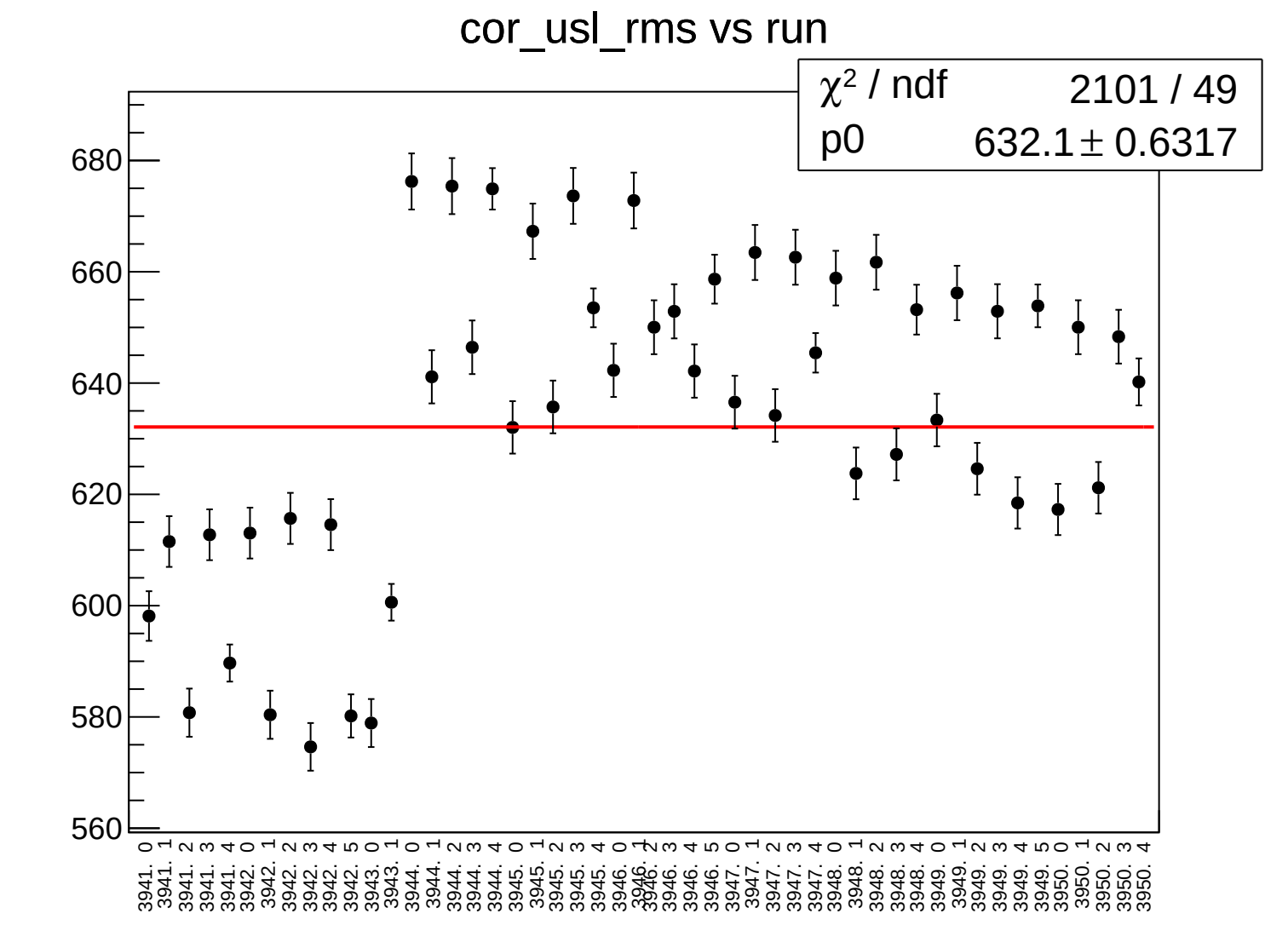

asym_right_dd_mean vs run
χ² / ndf 41.83 / 49
p0 −6.459 ± 63.76
1500
1000
500
0
−500
−1000
pull
Entries 50
Mean 393.1
Std Dev 376.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

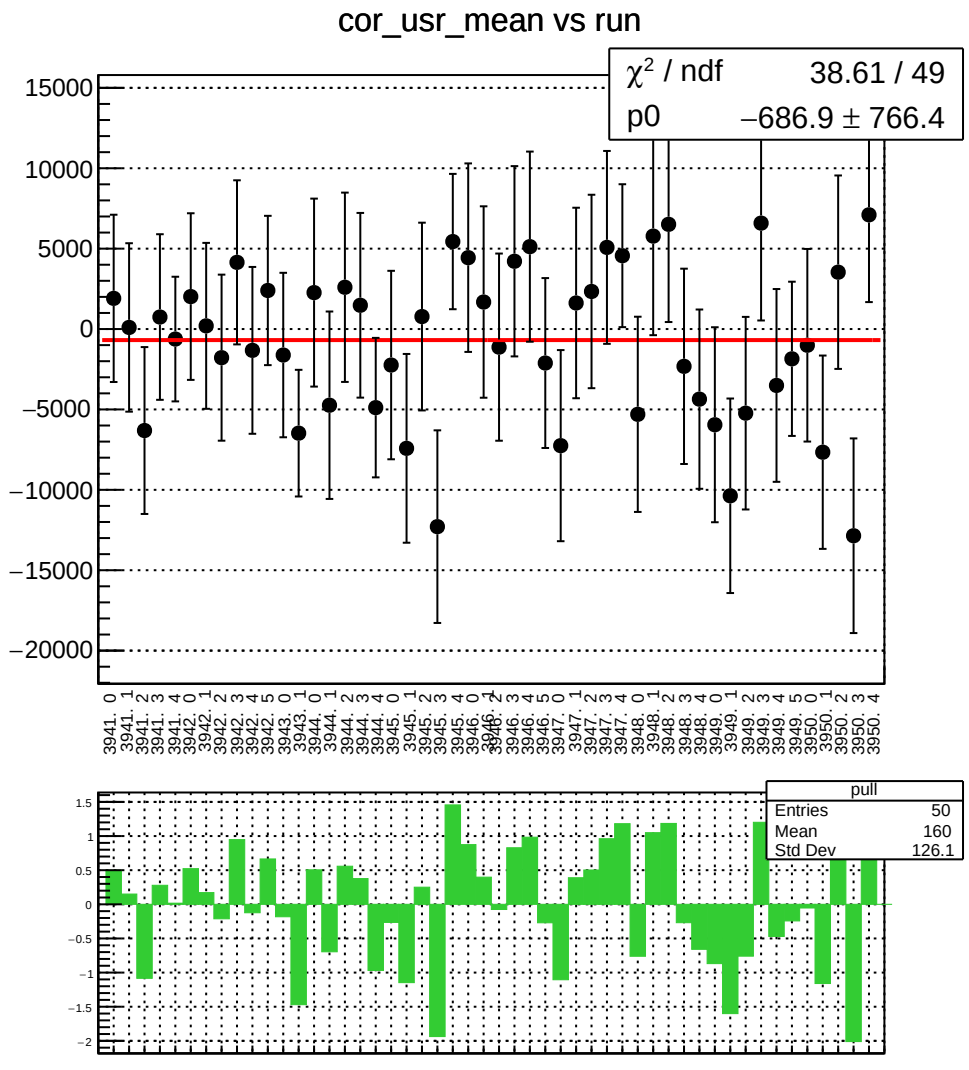

pull1D
Entries 50
Mean 0.002448
Std Dev 0.9146
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

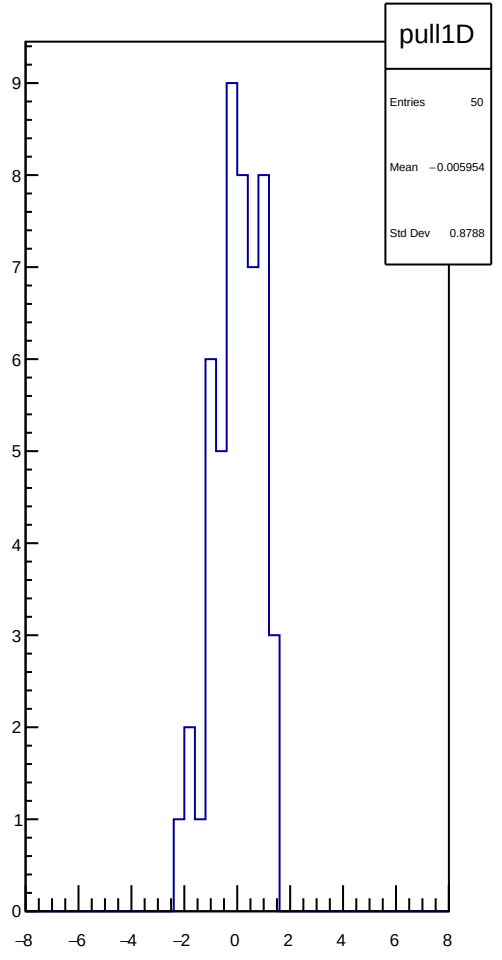

asym_right_dd_rms vs run
χ² / ndf 857.6 / 49
p0 45.14 ± 0.04508
48
47
46
45
44
43
42
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

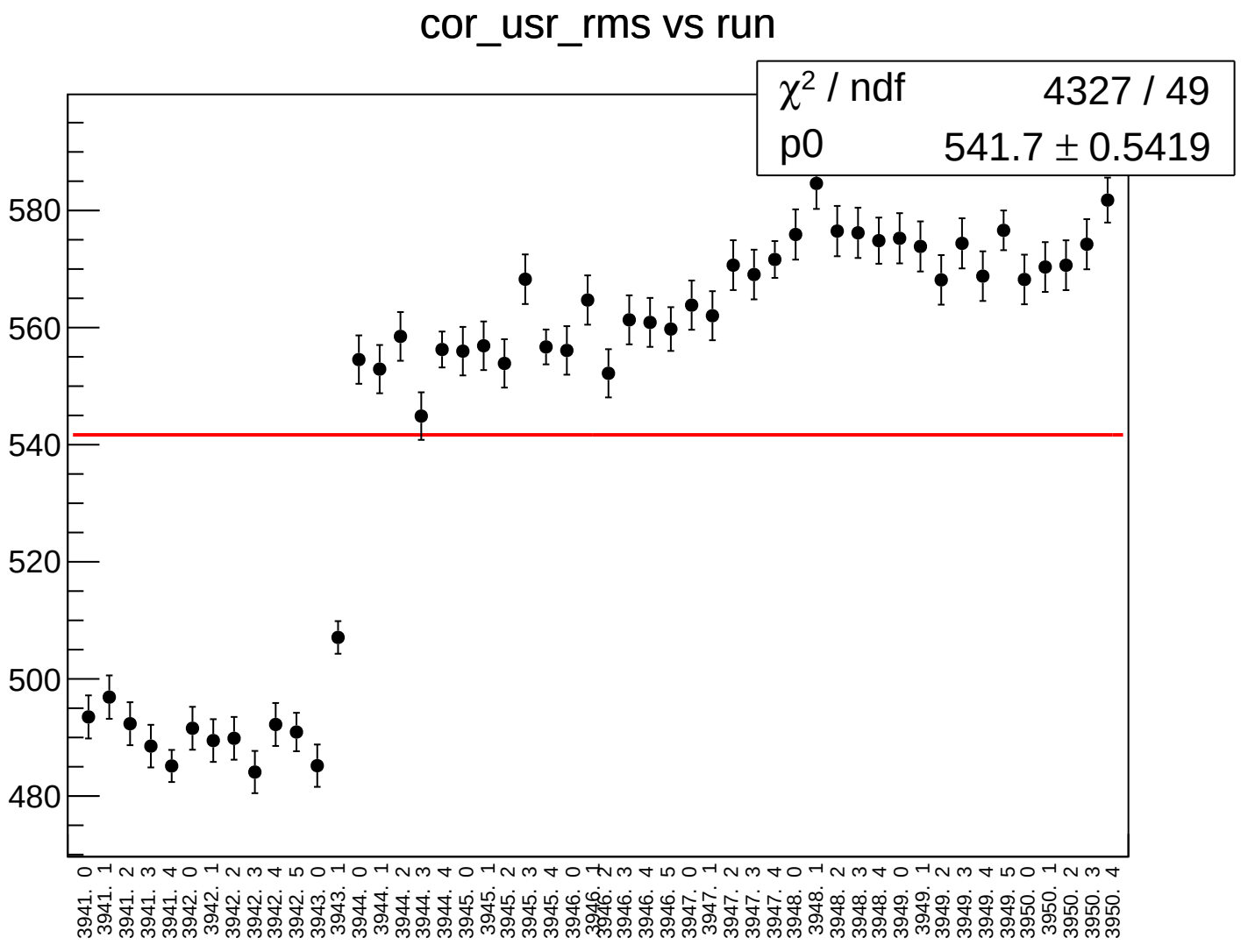

cor_usl_mean vs run
χ² / ndf 52.16 / 49
p0 −1052 ± 893.3
pull
Entries 50
Mean 58.23
Std Dev 10.07

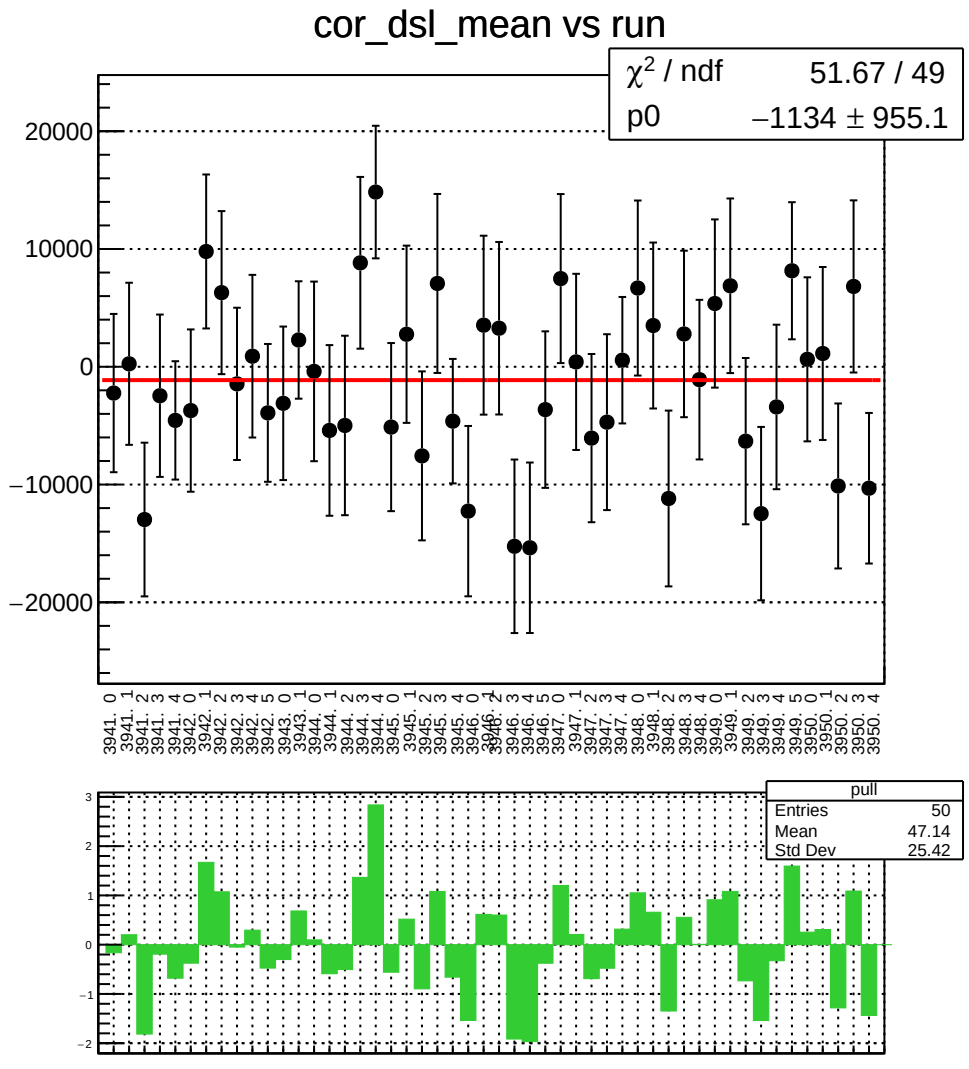

pull1D
Entries 50
Mean −0.01274
Std Dev 1.021

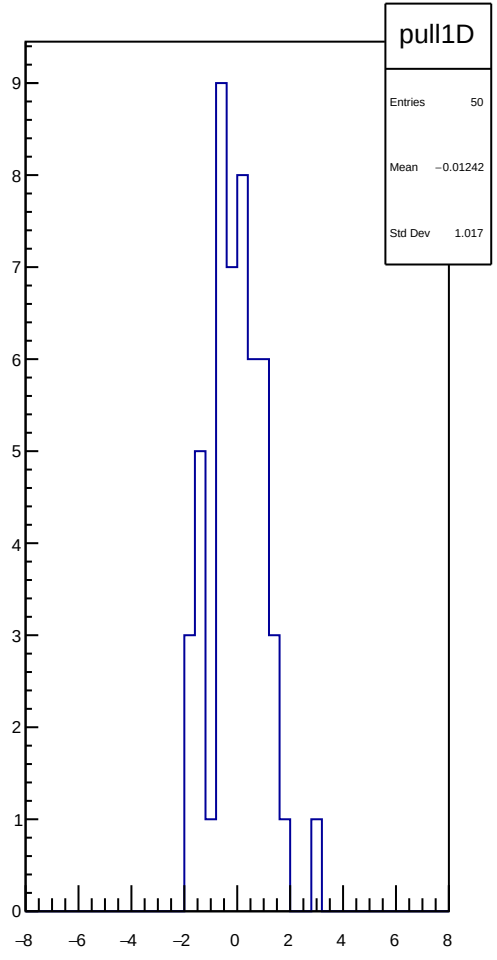

cor_usl_rms vs run
χ² / ndf 2101 / 49
p0 632.1 ± 0.6317
680
660
640
620
600
580
560
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

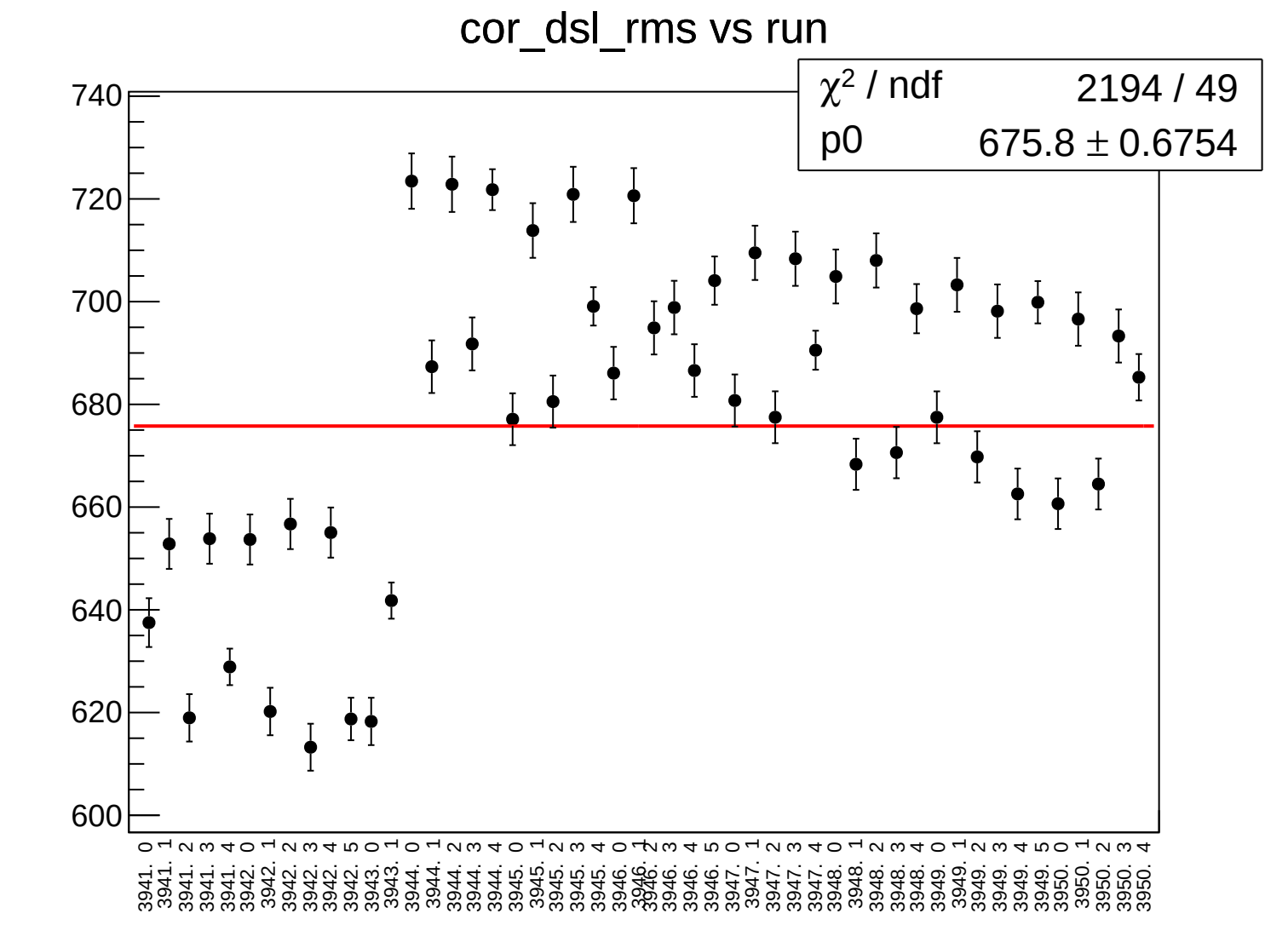

cor_usr_mean vs run
χ² / ndf 38.61 / 49
p0 −686.9 ± 766.4
pull
Entries 50
Mean 160
Std Dev 126.1

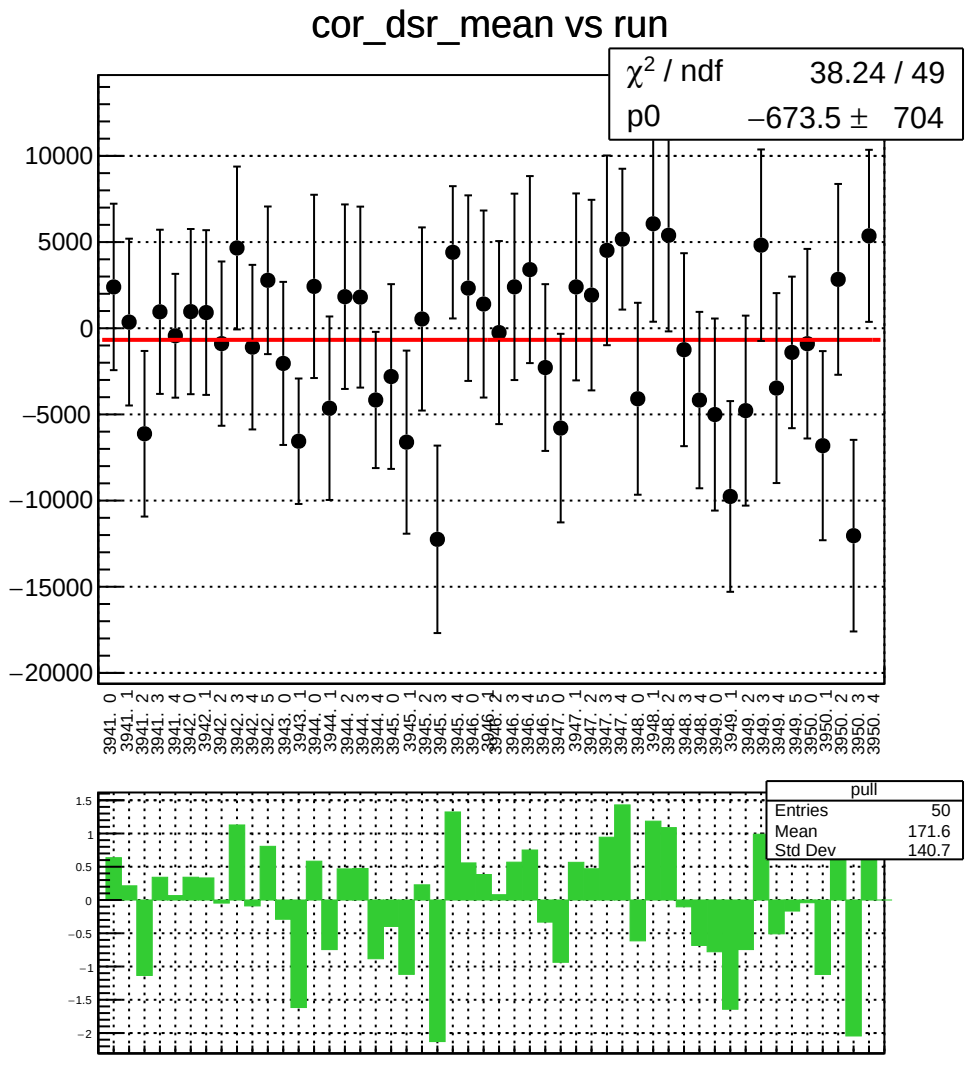

pull1D
Entries 50
Mean −0.005954
Std Dev 0.8788

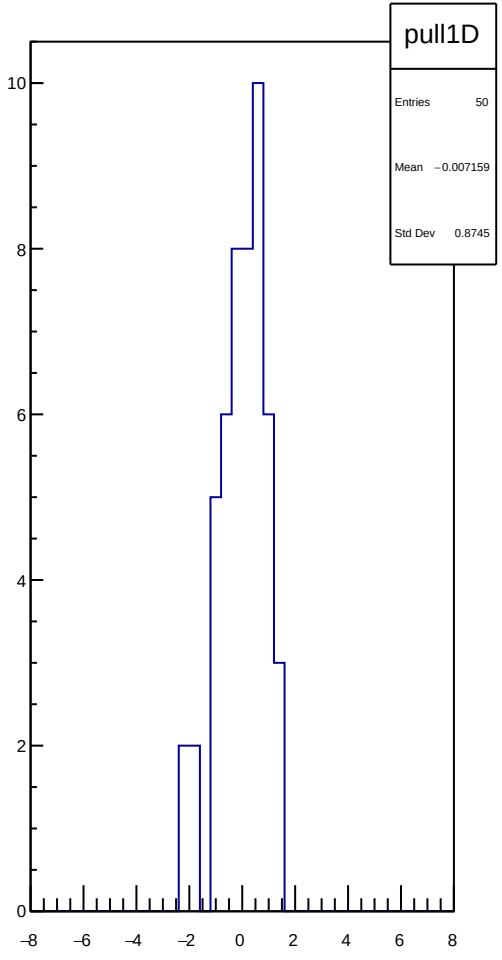

cor_usr_rms vs run
χ² / ndf 4327 / 49
p0 541.7 ± 0.5419
580
560
540
520
500
480
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

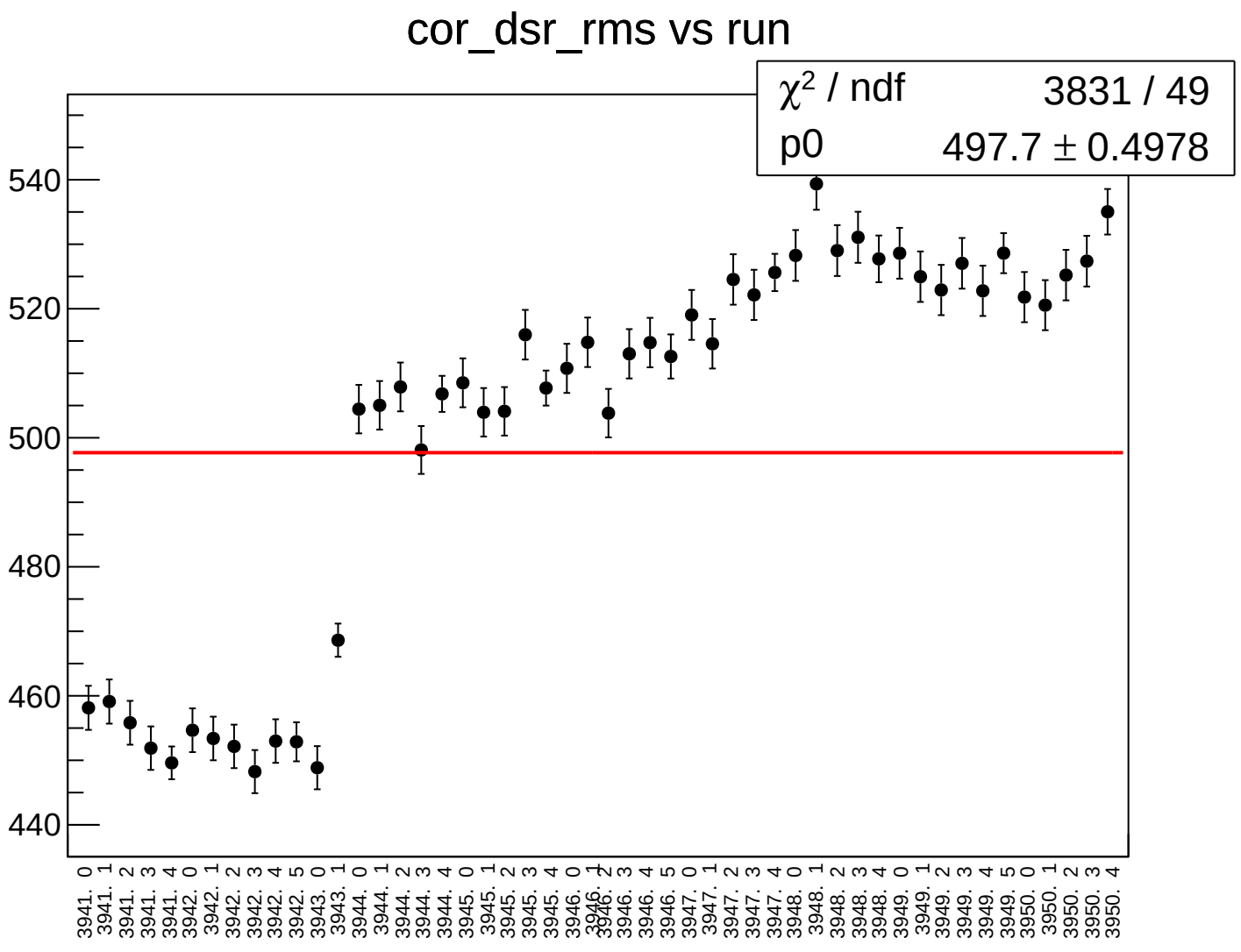

cor_dsl_mean vs run
χ² / ndf 51.67 / 49
p0 −1134 ± 955.1
20000
10000
0
−10000
−20000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 47.14
Std Dev 25.42
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01242
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_dsl_rms vs run
χ² / ndf 2194 / 49
p0 675.8 ± 0.6754
740
720
700
680
660
640
620
600
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


cor_dsr_mean vs run
χ² / ndf 38.24 / 49
p0 −673.5 ± 704
pull
Entries 50
Mean 171.6
Std Dev 140.7


pull1D
Entries 50
Mean −0.007159
Std Dev 0.8745


cor_dsr_rms vs run
χ² / ndf 3831 / 49
p0 497.7 ± 0.4978
540
520
500
480
460
440
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
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3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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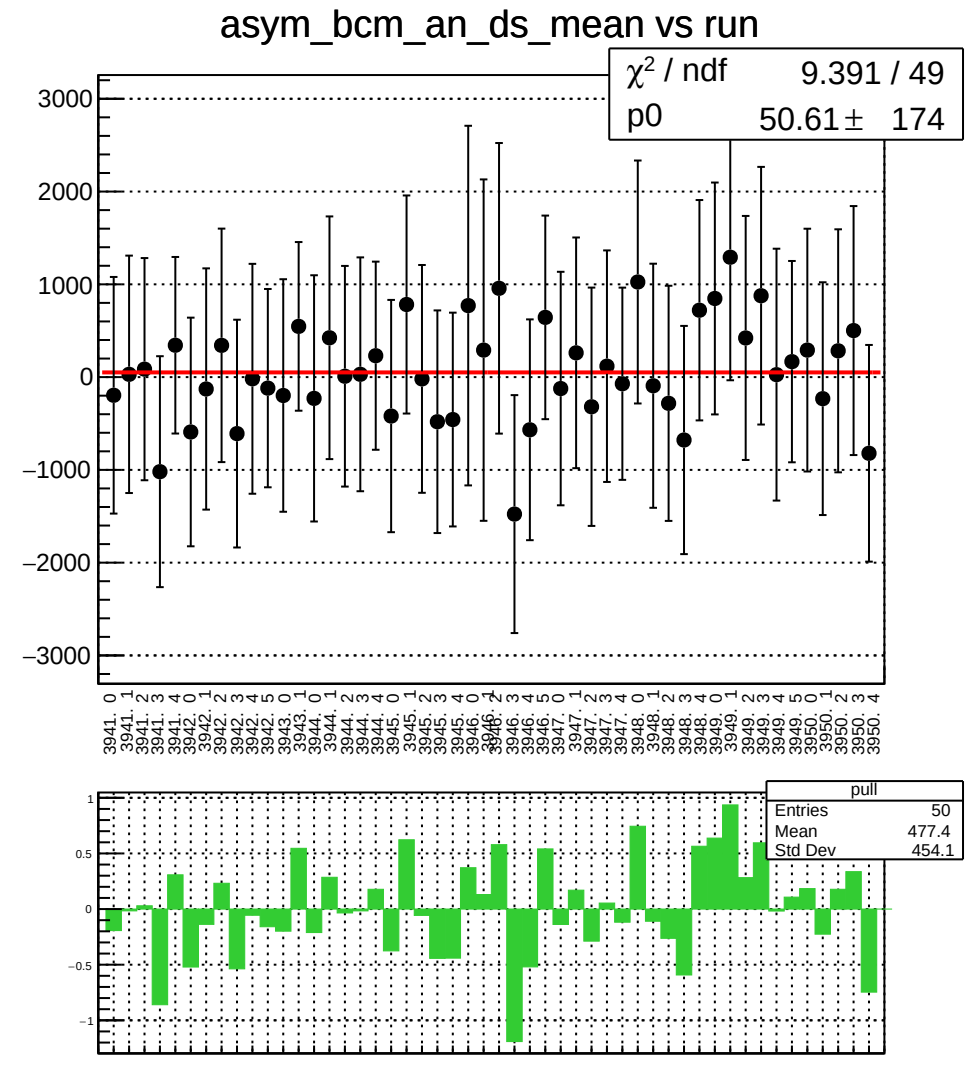
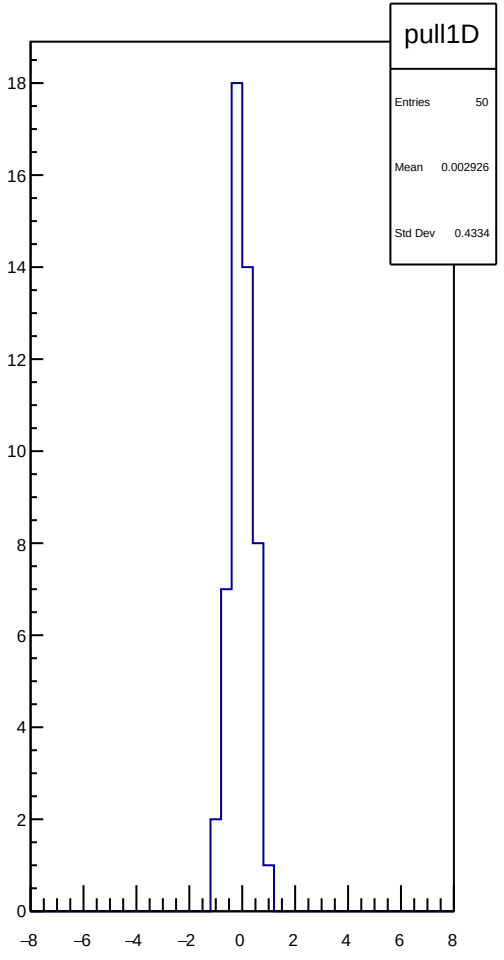
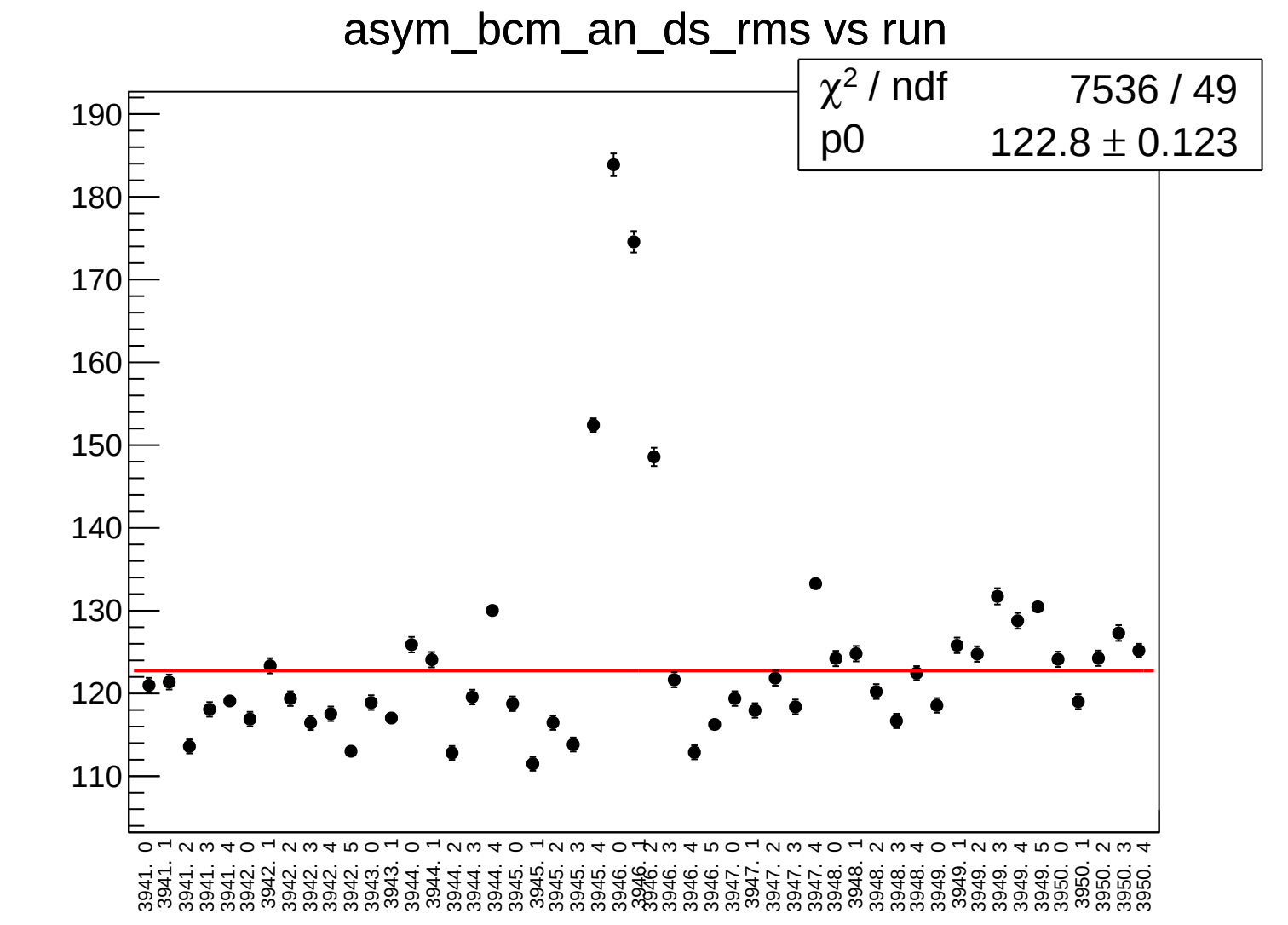
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_bcm_an_ds_mean vs run
χ² / ndf 9.391 / 49
p0 50.61 ± 174
pull
Entries 50
Mean 477.4
Std Dev 454.1


pull1D
Entries 50
Mean 0.002926
Std Dev 0.4334


asym_bcm_an_ds_rms vs run
$\chi^2$ / ndf 7536 / 49
p0 122.8 ± 0.123
190
180
170
160
150
140
130
120
110
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
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3947. 1
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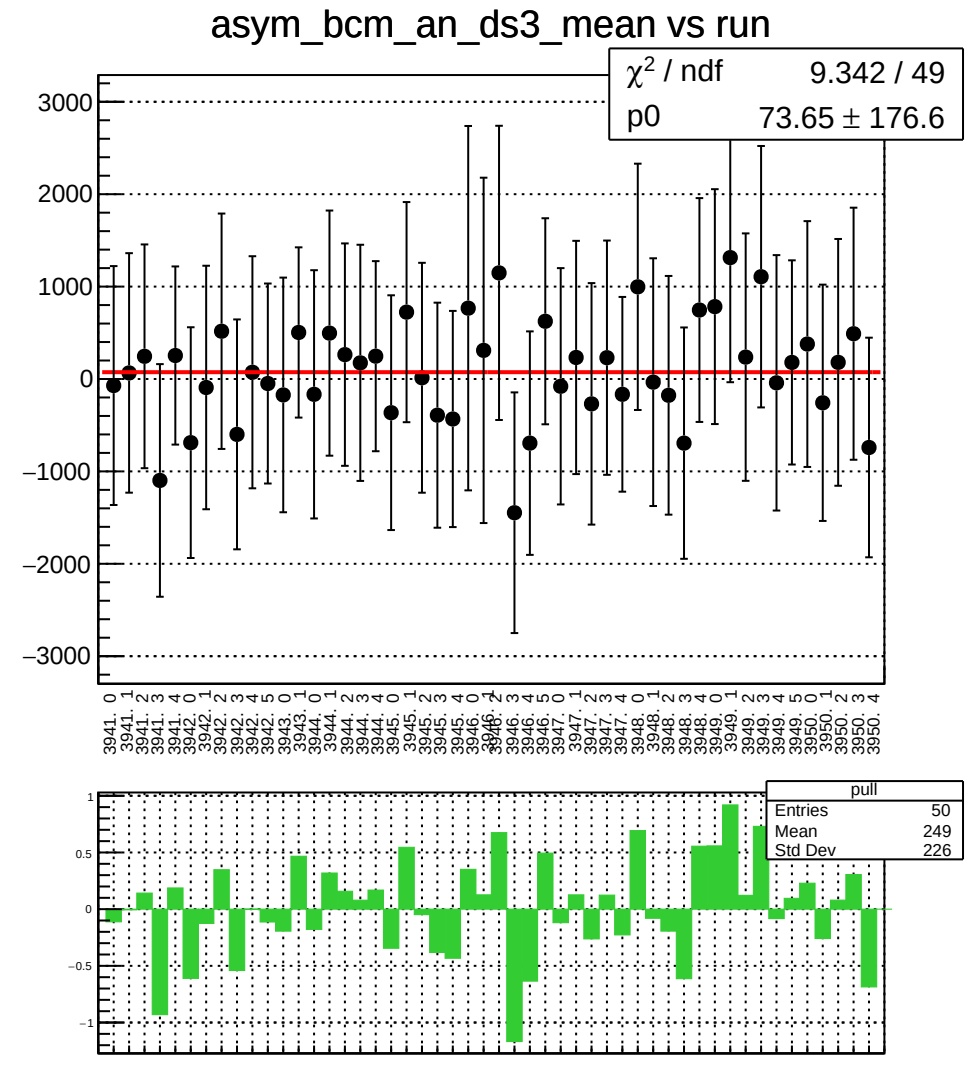
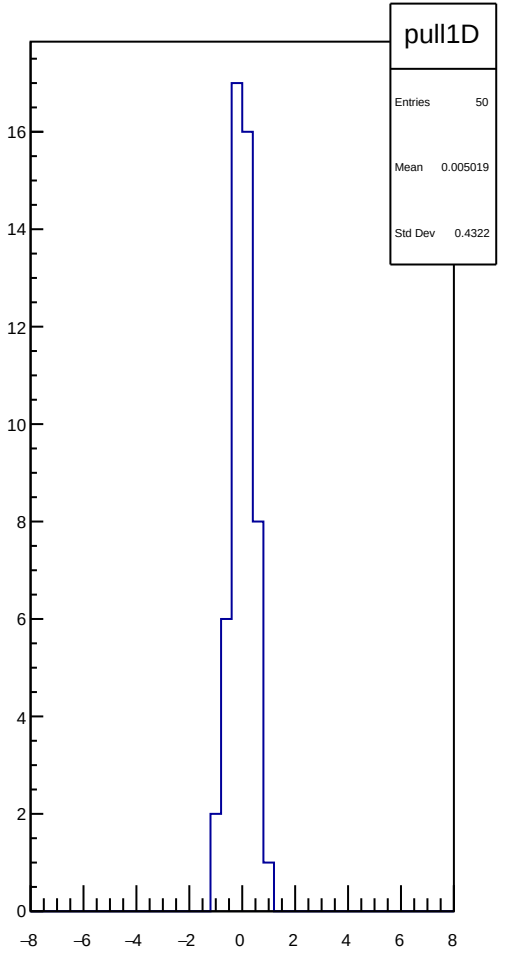
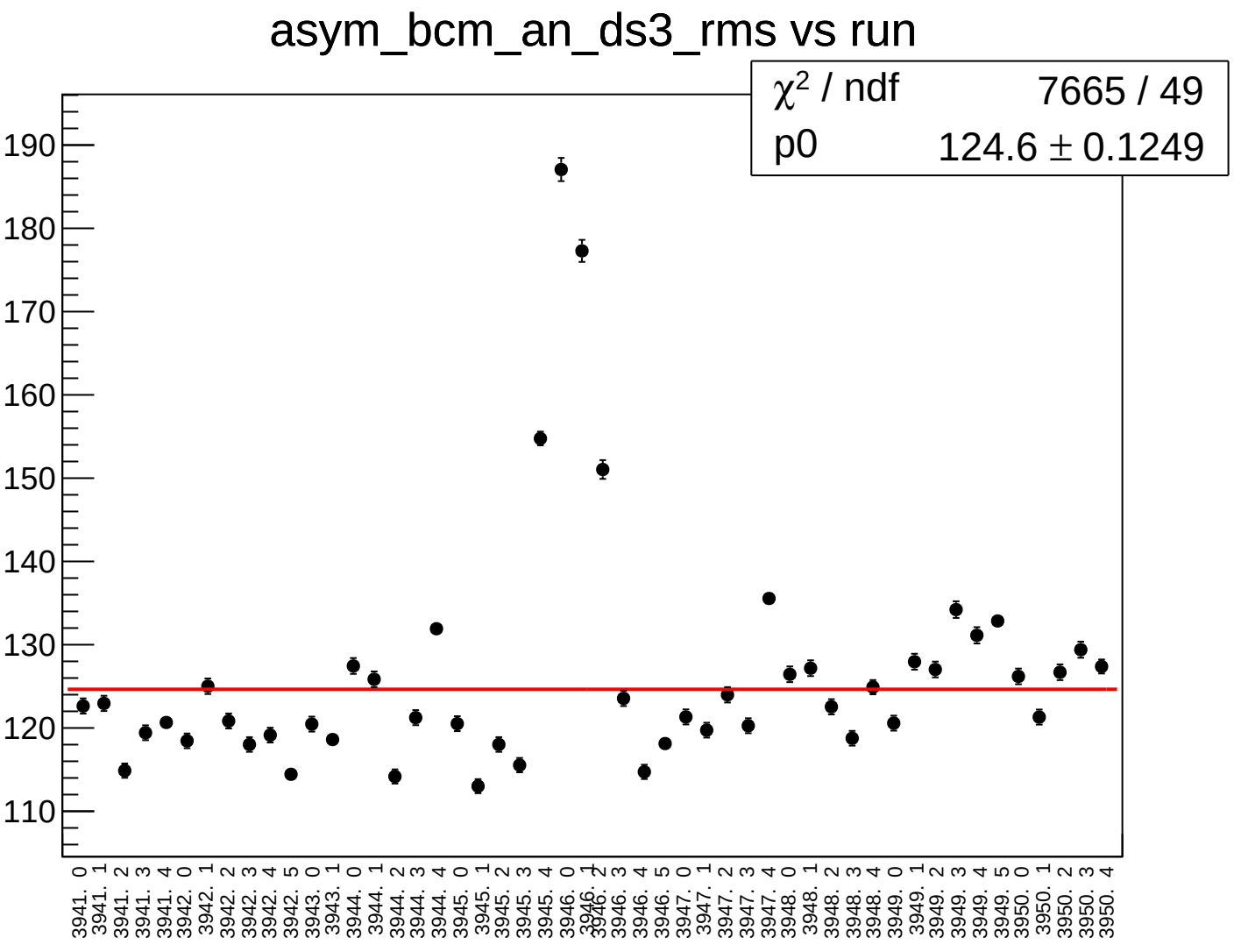
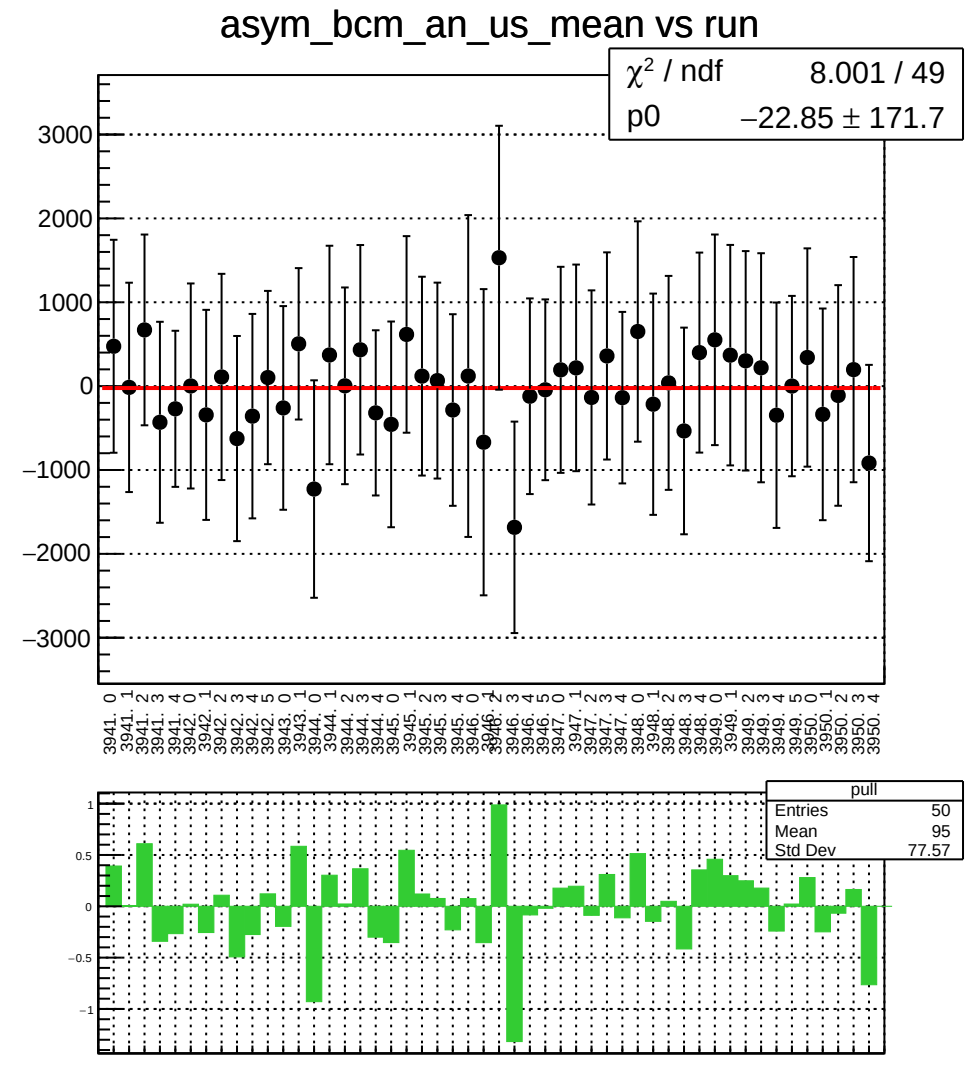
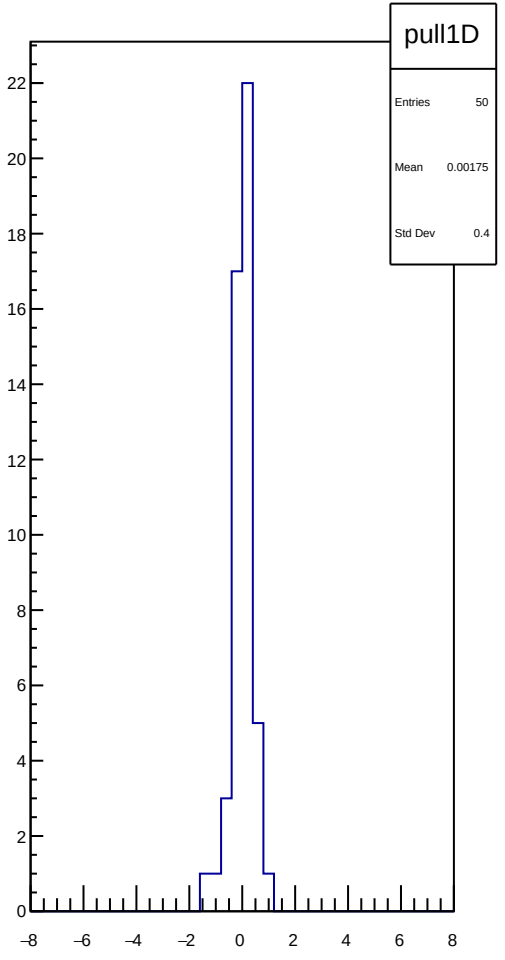
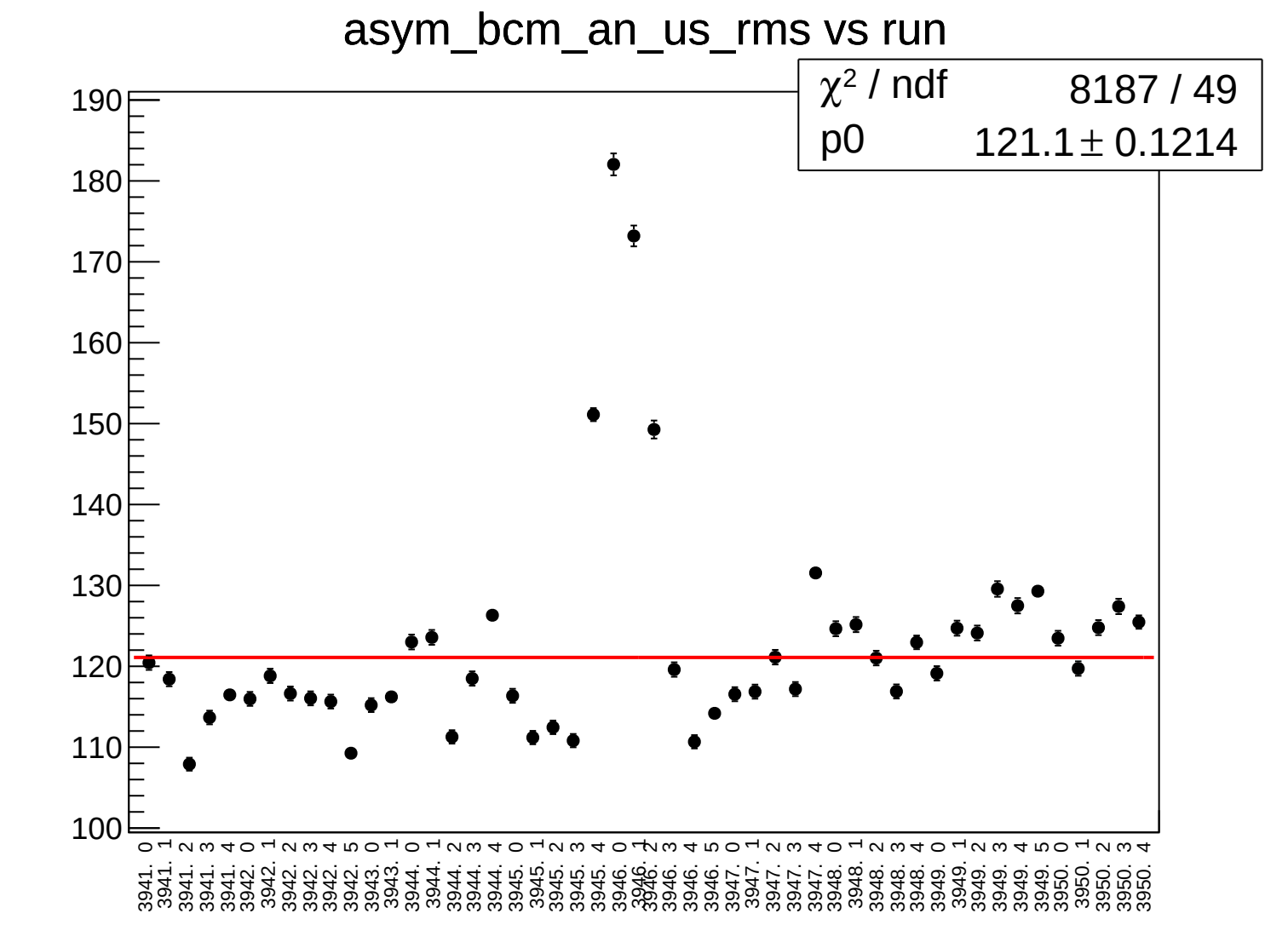

asym_bcm_an_ds3_mean vs run
χ² / ndf 9.342 / 49
p0 73.65 ± 176.6
pull
Entries 50
Mean 249
Std Dev 226

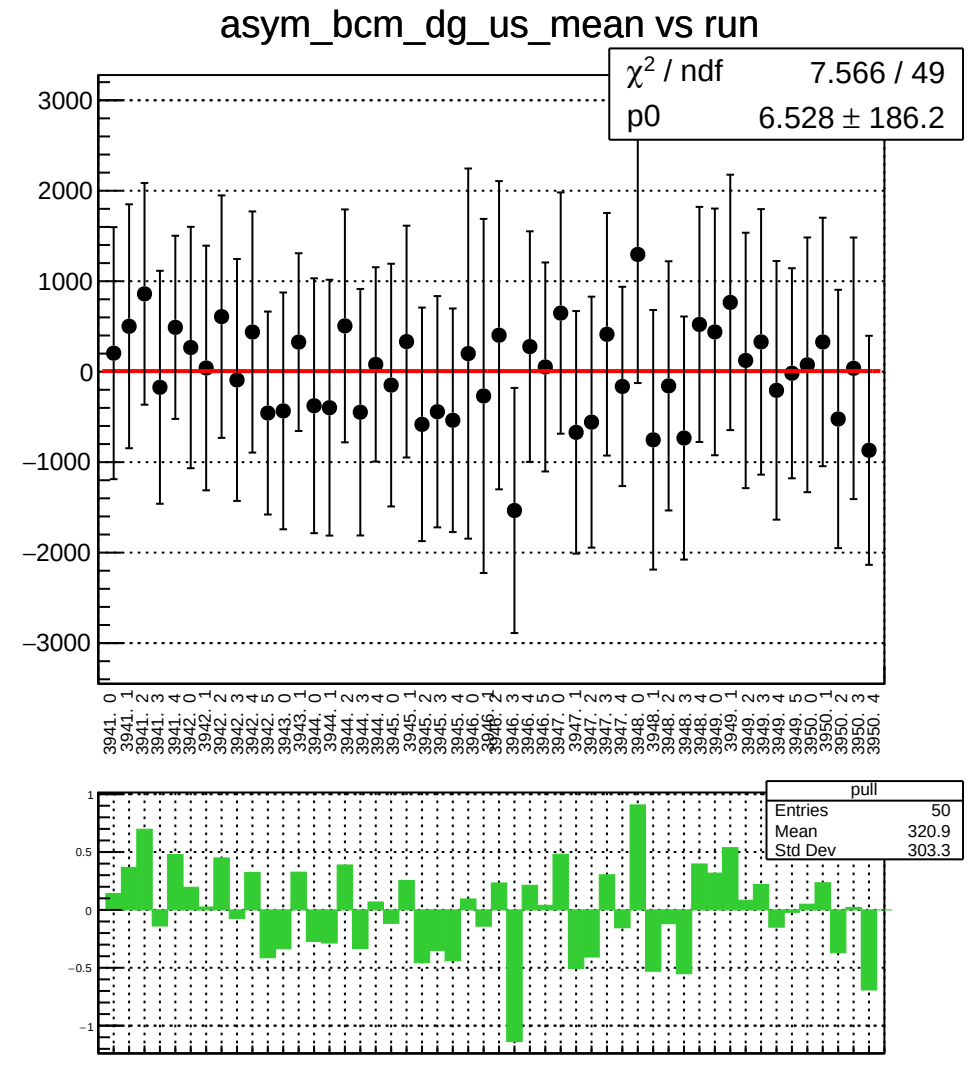

pull1D
Entries 50
Mean 0.005019
Std Dev 0.4322

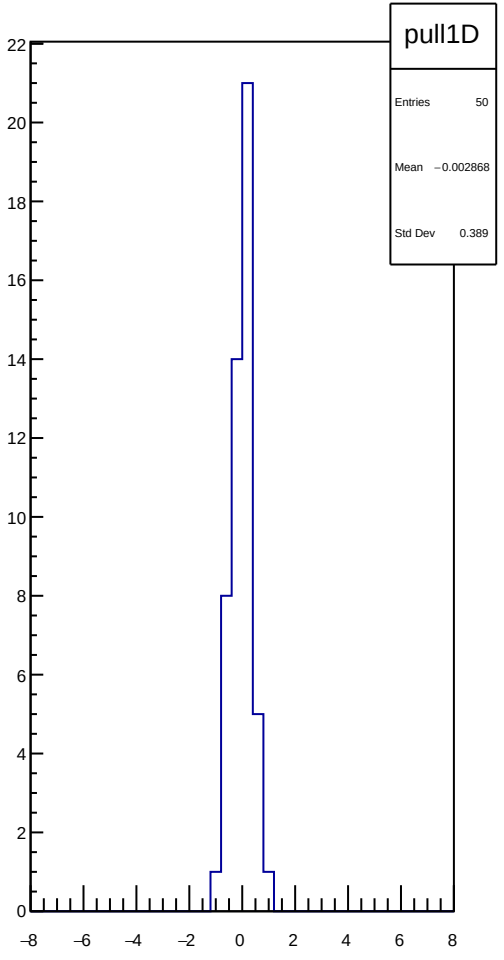

asym_bcm_an_ds3_rms vs run
χ² / ndf 7665 / 49
p0 124.6 ± 0.1249
190
180
170
160
150
140
130
120
110
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

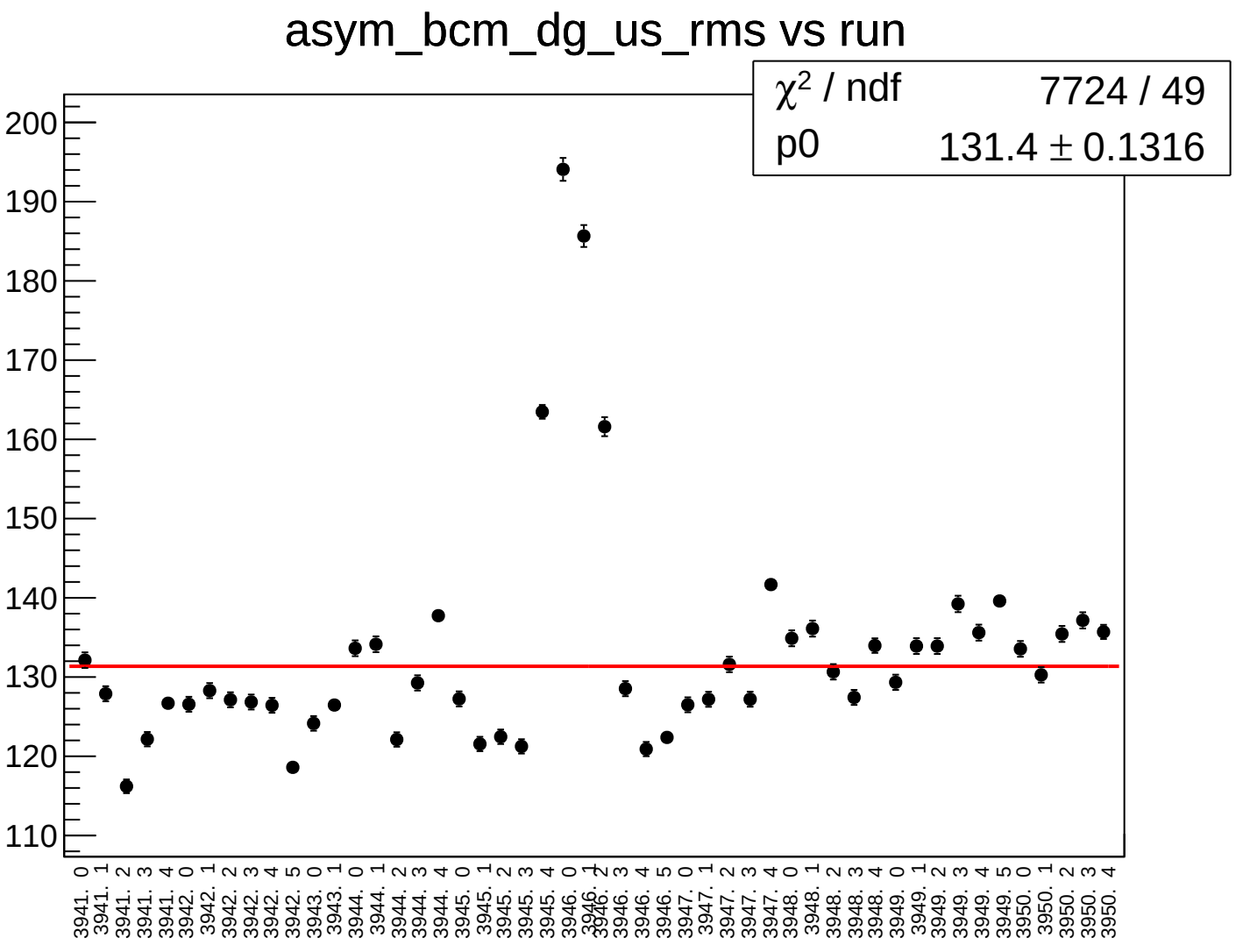

asym_bcm_an_us_mean vs run
χ² / ndf 8.001 / 49
p0 −22.85 ± 171.7
pull
Entries 50
Mean 95
Std Dev 77.57

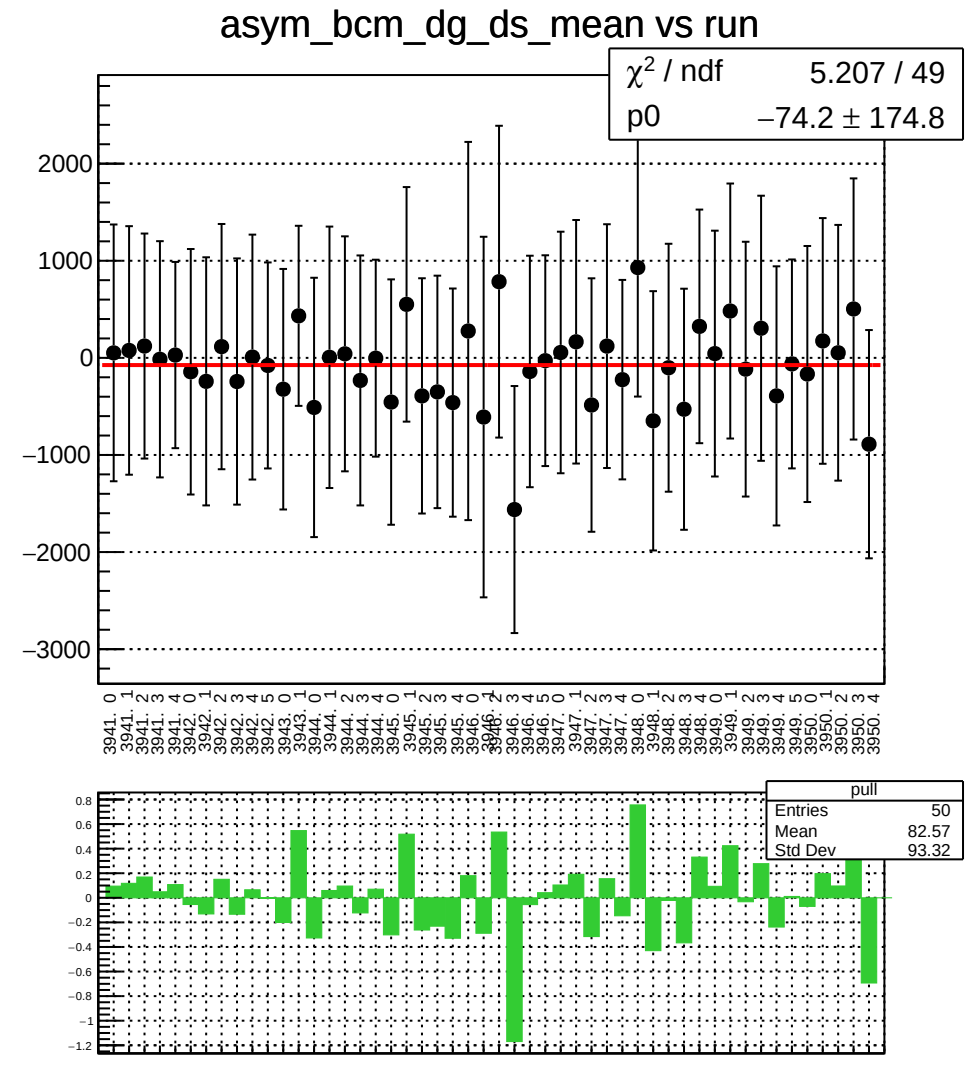

pull1D
Entries 50
Mean 0.00175
Std Dev 0.4

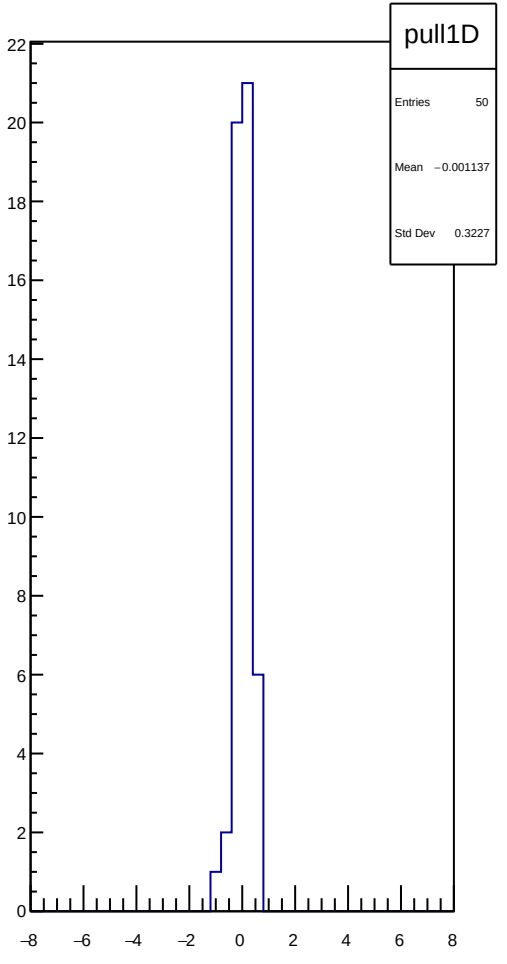

asym_bcm_an_us_rms vs run
χ² / ndf 8187 / 49
p0 121.1 ± 0.1214
190
180
170
160
150
140
130
120
110
100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

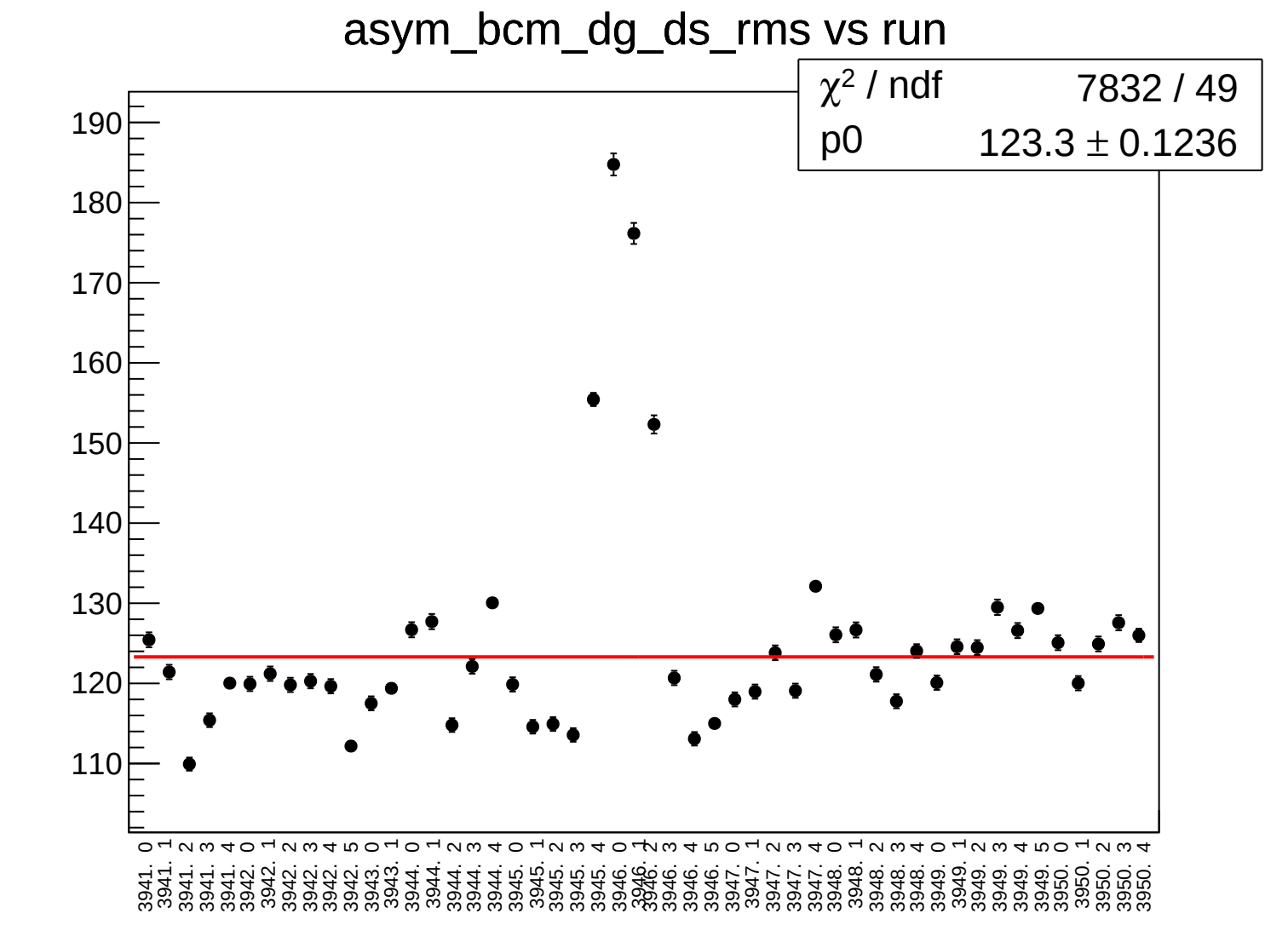

asym_bcm_dg_us_mean vs run
χ² / ndf 7.566 / 49
p0 6.528 ± 186.2
pull
Entries 50
Mean 320.9
Std Dev 303.3

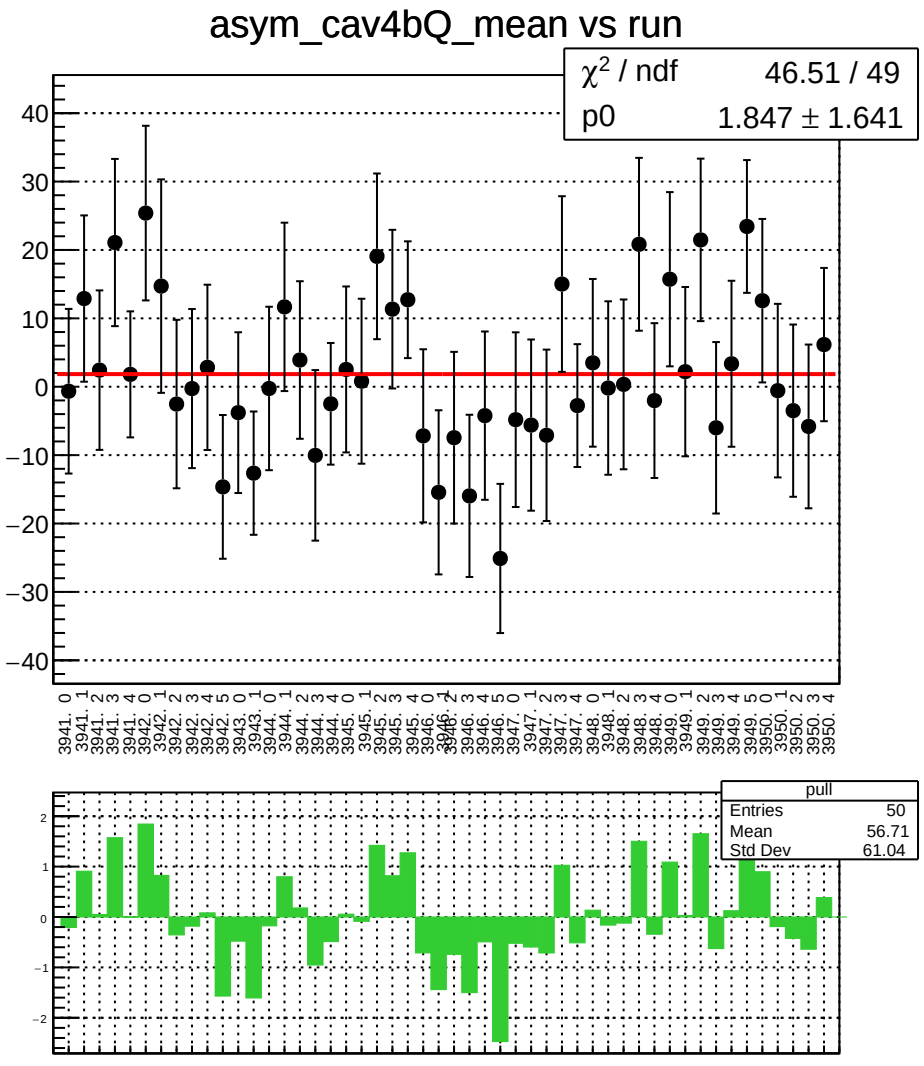

pull1D
Entries 50
Mean −0.002868
Std Dev 0.389

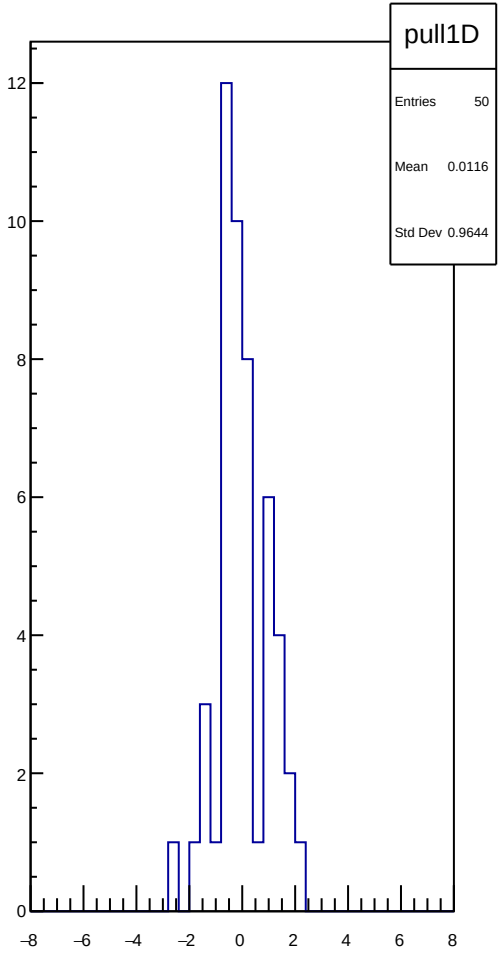

asym_bcm_dg_us_rms vs run
χ² / ndf 7724 / 49
p0 131.4 ± 0.1316
200
190
180
170
160
150
140
130
120
110
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

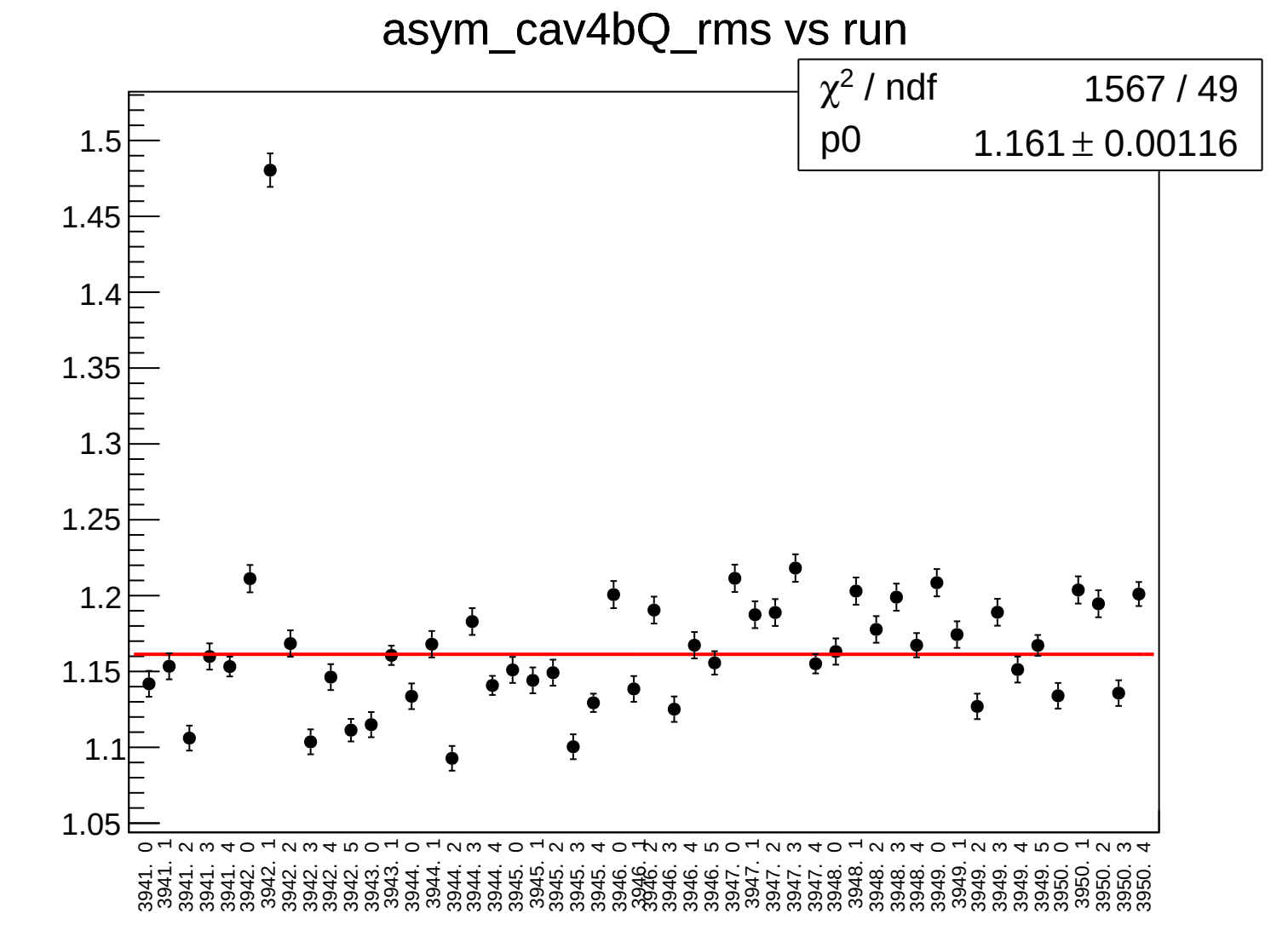

asym_bcm_dg_ds_mean vs run
χ² / ndf 5.207 / 49
p0 −74.2 ± 174.8
2000
1000
0
−1000
−2000
−3000
pull
Entries 50
Mean 82.57
Std Dev 93.32
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

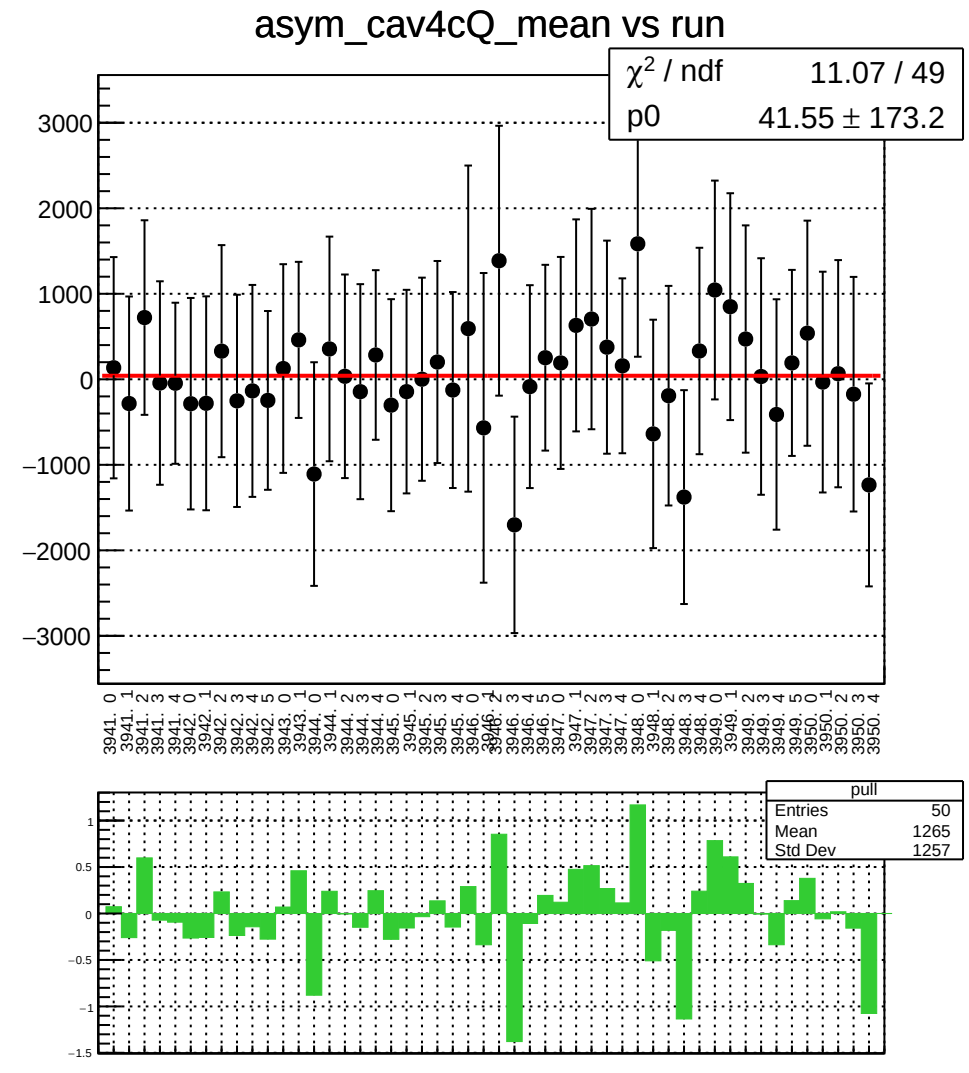

pull1D
Entries 50
Mean −0.001137
Std Dev 0.3227
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

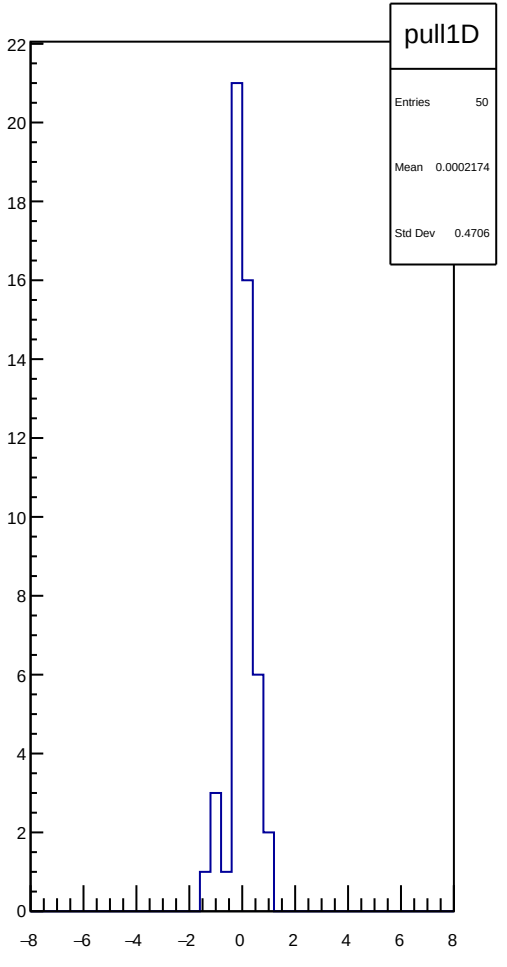

asym_bcm_dg_ds_rms vs run
χ² / ndf 7832 / 49
p0 123.3 ± 0.1236
190
180
170
160
150
140
130
120
110
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

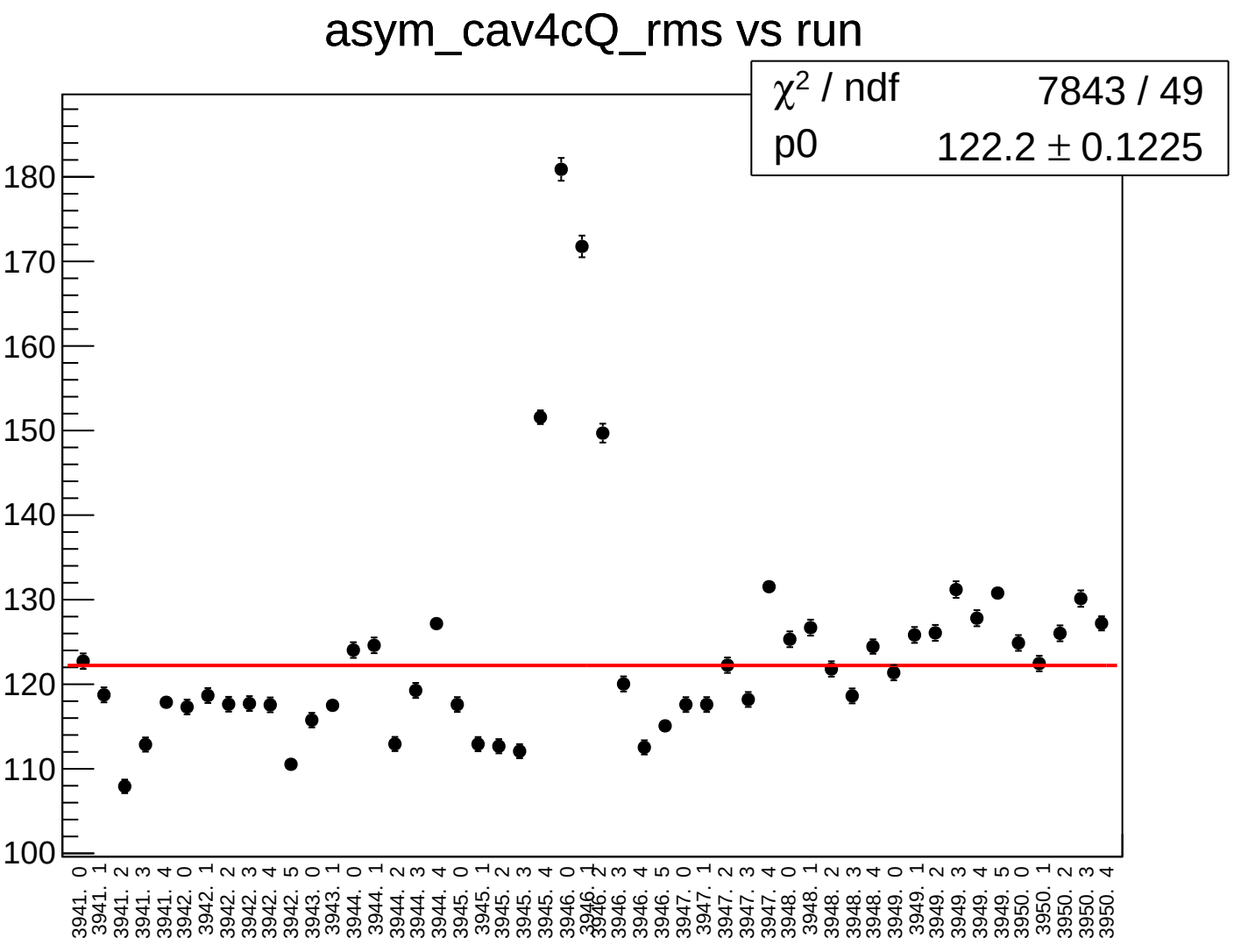

asym_cav4bQ_mean vs run
χ² / ndf 46.51 / 49
p0 1.847 ± 1.641
pull
Entries 50
Mean 56.71
Std Dev 61.04

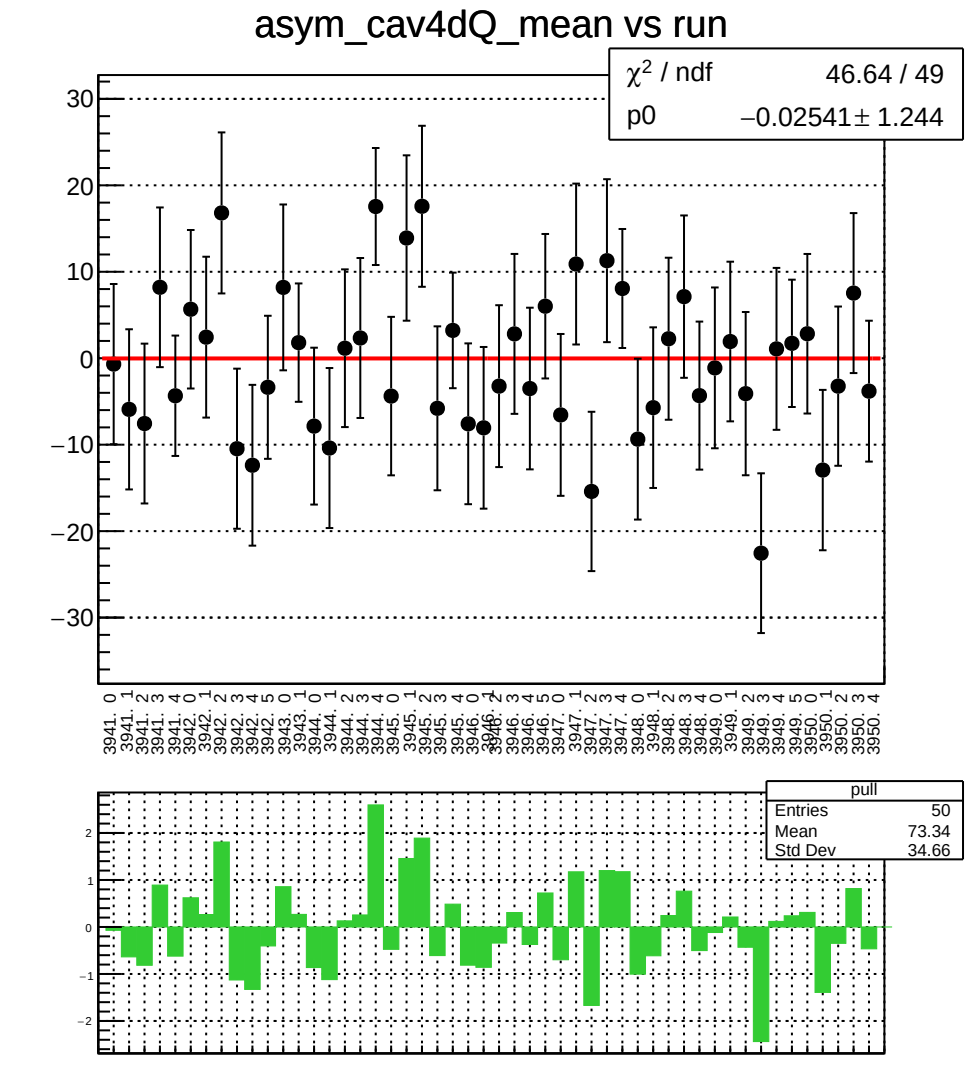

pull1D
Entries 50
Mean 0.0116
Std Dev 0.9644

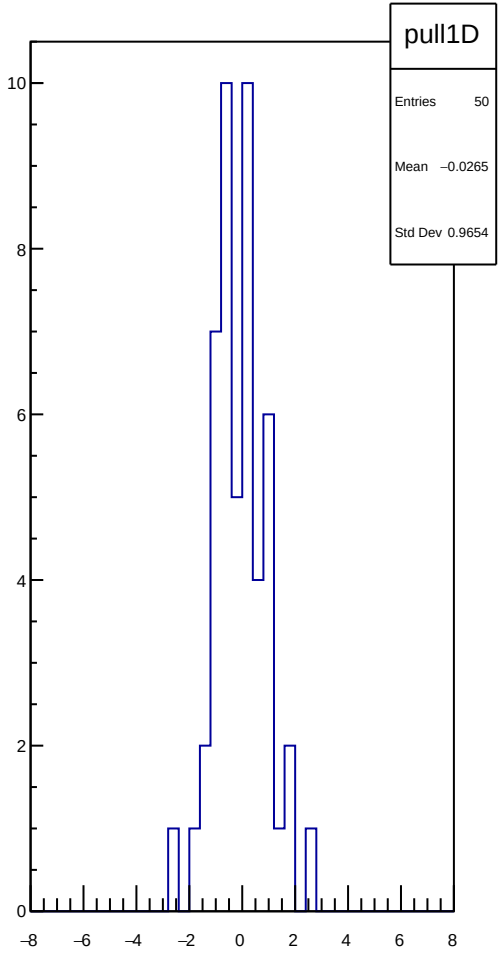

asym_cav4bQ_rms vs run
χ² / ndf 1567 / 49
p0 1.161 ± 0.00116
1.5
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

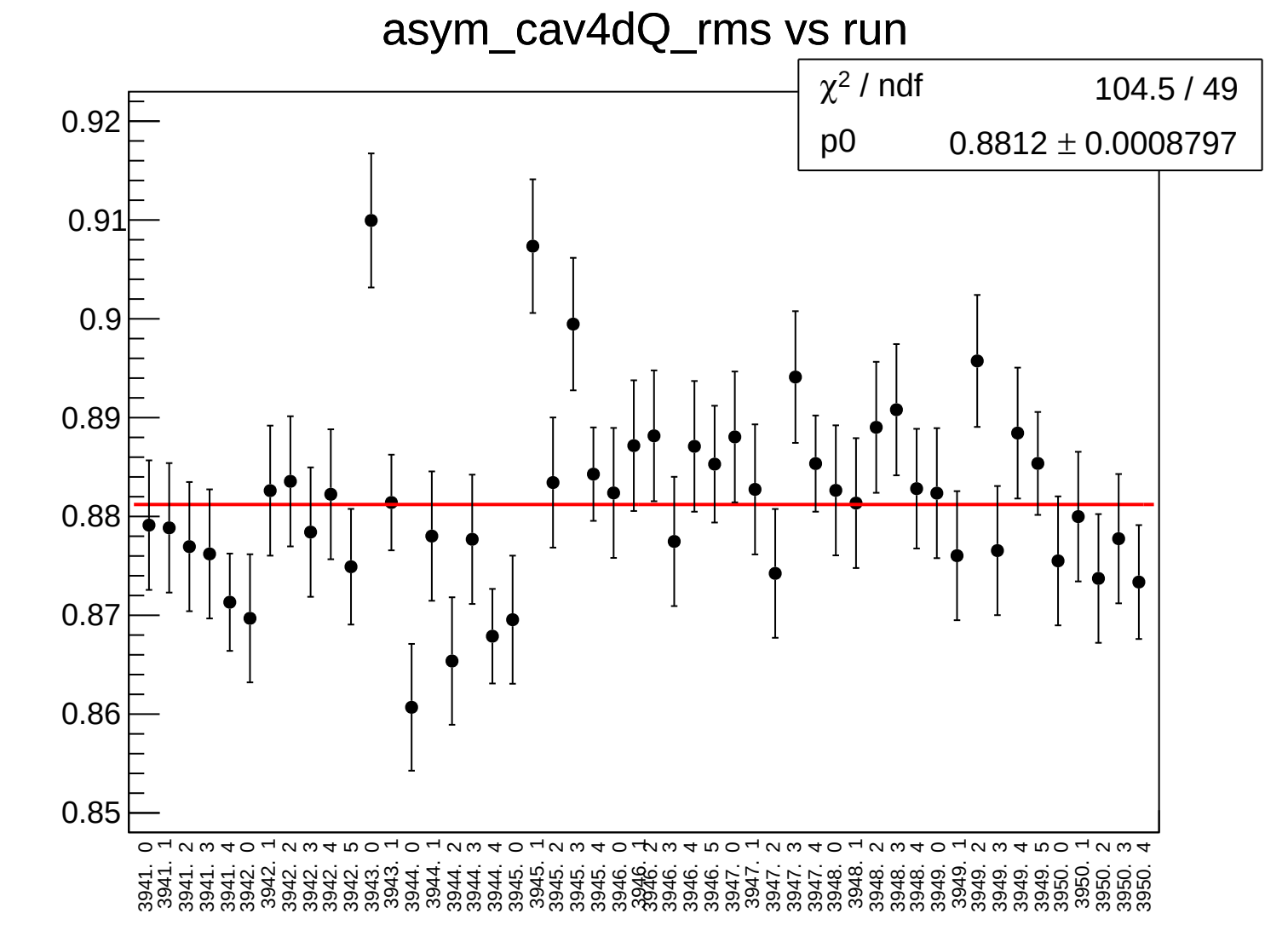

asym_cav4cQ_mean vs run
χ² / ndf 11.07 / 49
p0 41.55 ± 173.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 50
Mean 1265
Std Dev 1257
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean 0.0002174
Std Dev 0.4706
22
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 7843 / 49
p0 122.2 ± 0.1225
180
170
160
150
140
130
120
110
100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_cav4dQ_mean vs run
χ² / ndf 46.64 / 49
p0 −0.02541 ± 1.244
pull
Entries 50
Mean 73.34
Std Dev 34.66


pull1D
Entries 50
Mean −0.0265
Std Dev 0.9654


asym_cav4dQ_rms vs run
χ² / ndf 104.5 / 49
p0 0.8812 ± 0.0008797
0.92
0.91
0.9
0.89
0.88
0.87
0.86
0.85
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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3949. 3
3949. 4
3949. 5
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3950. 1
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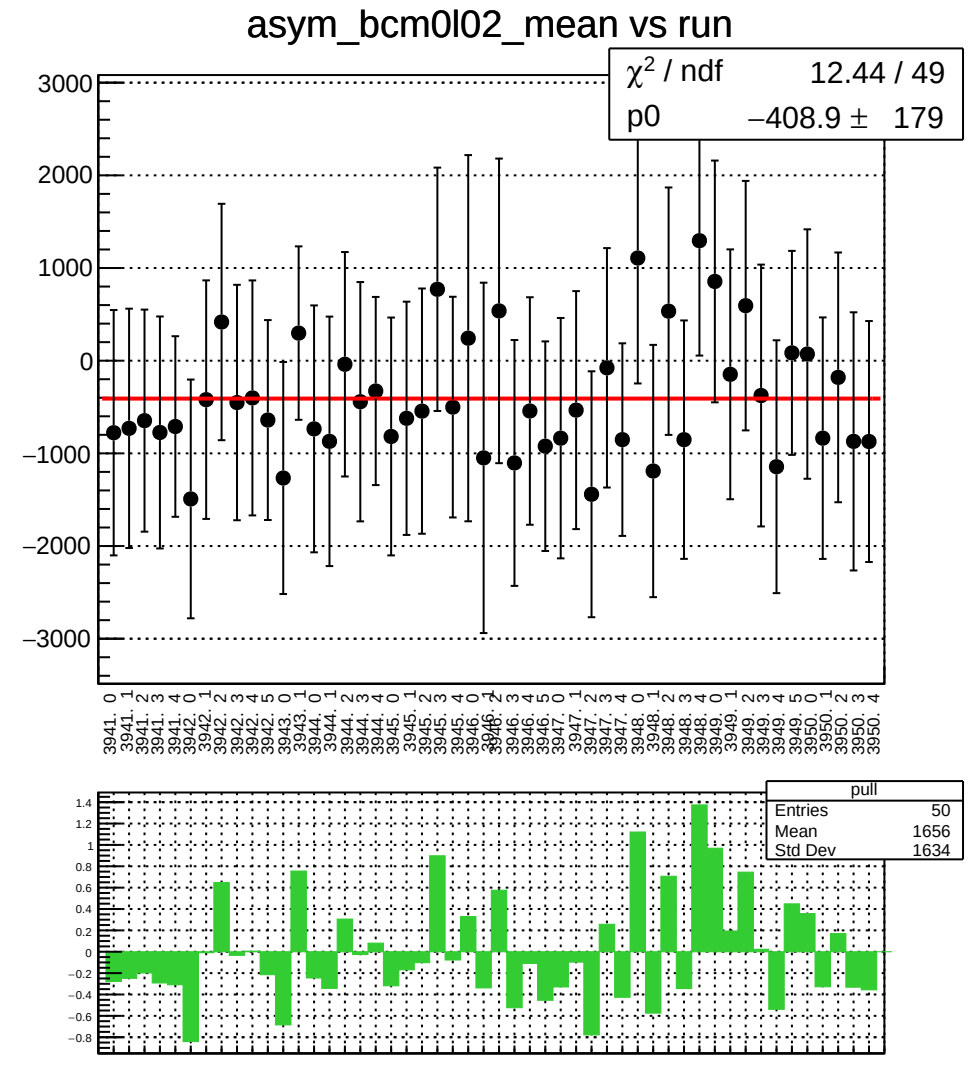
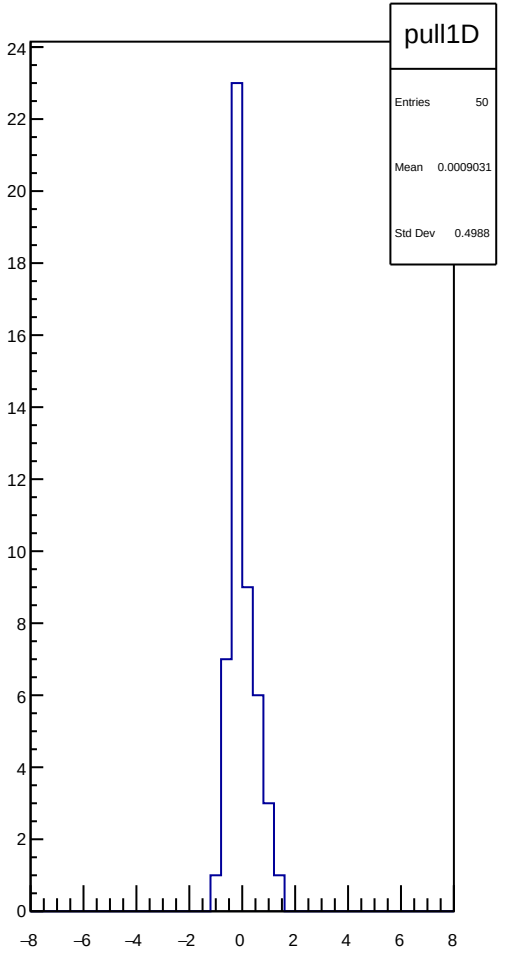
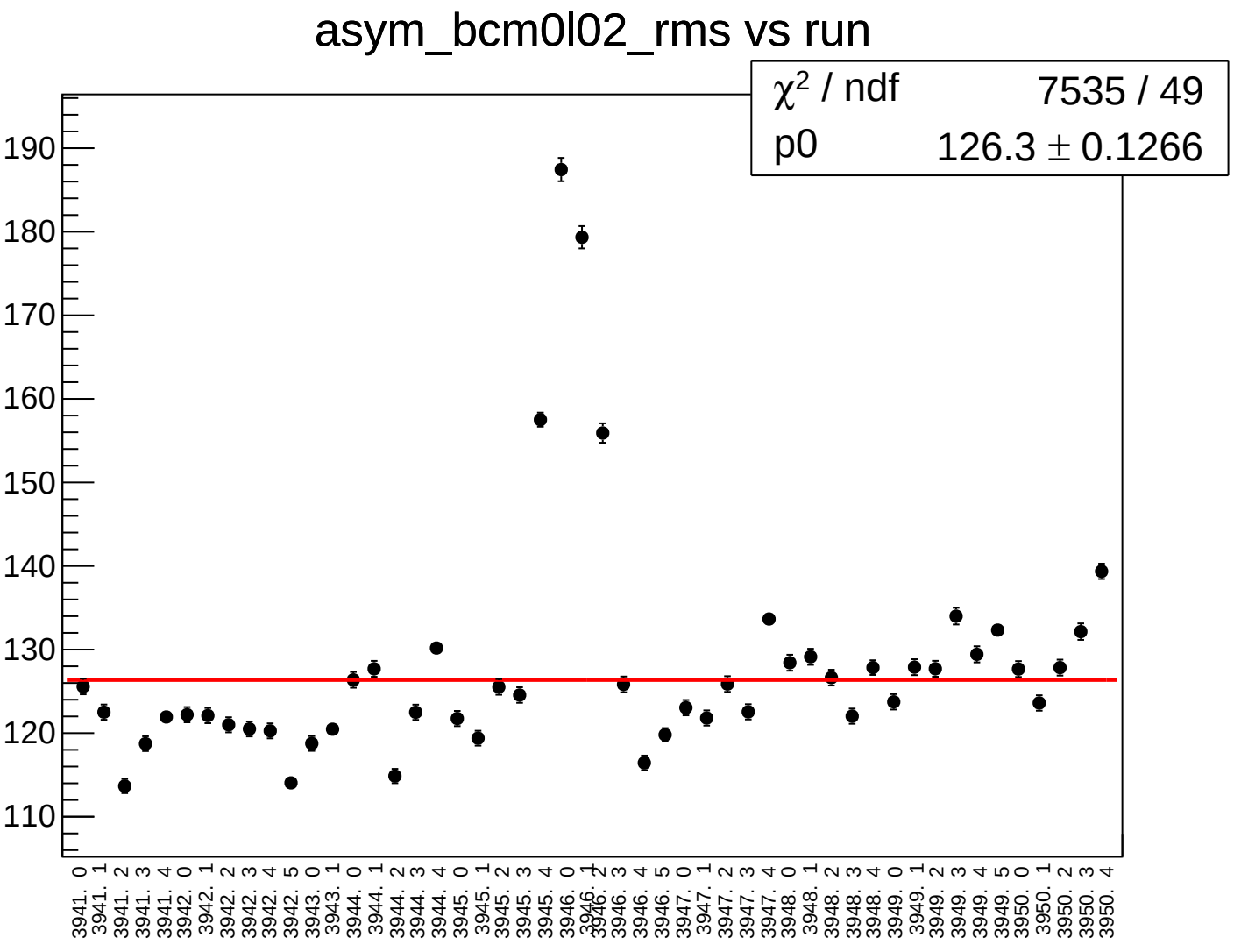
3950. 3
3950. 4


asym_bcm0l02_mean vs run
χ² / ndf 12.44 / 49
p0 −408.9 ± 179
pull
Entries 50
Mean 1656
Std Dev 1634


pull1D
Entries 50
Mean 0.0009031
Std Dev 0.4988


asym_bcm0l02_rms vs run
χ² / ndf 7535 / 49
p0 126.3 ± 0.1266
190
180
170
160
150
140
130
120
110
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
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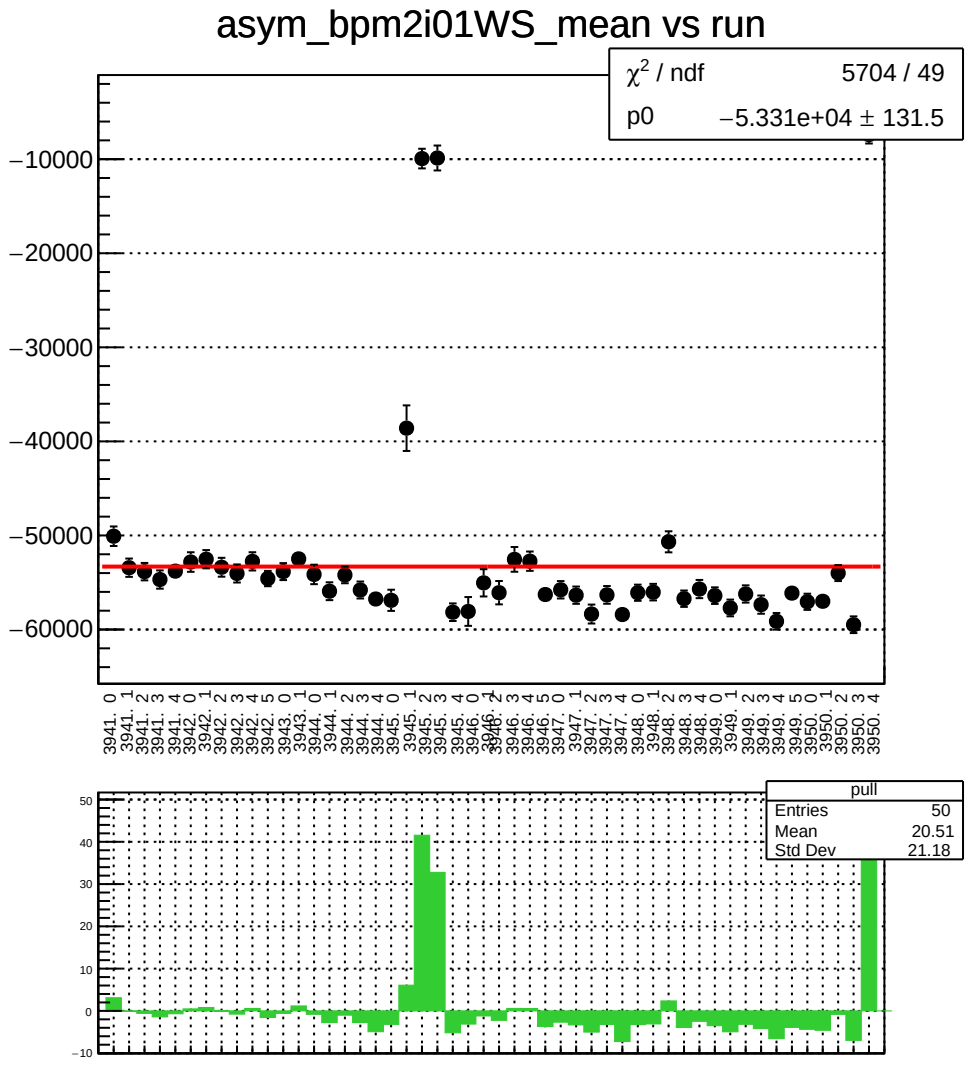
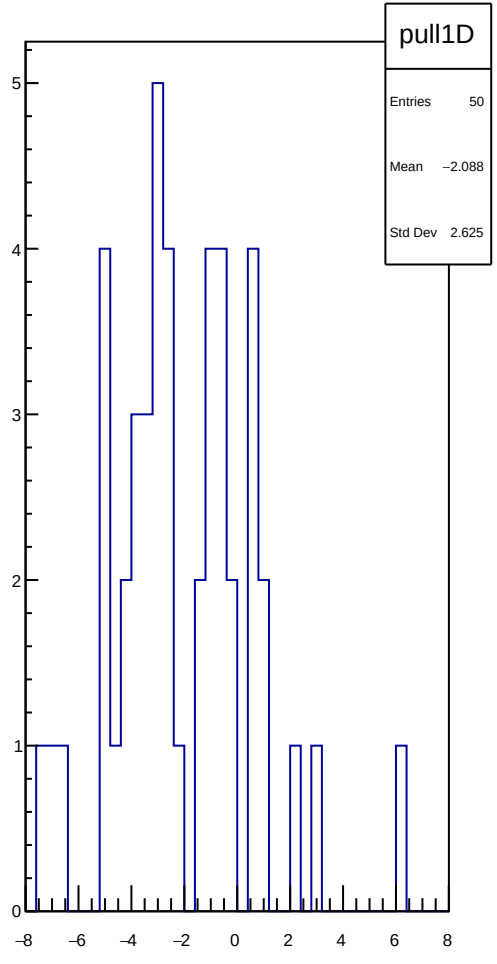
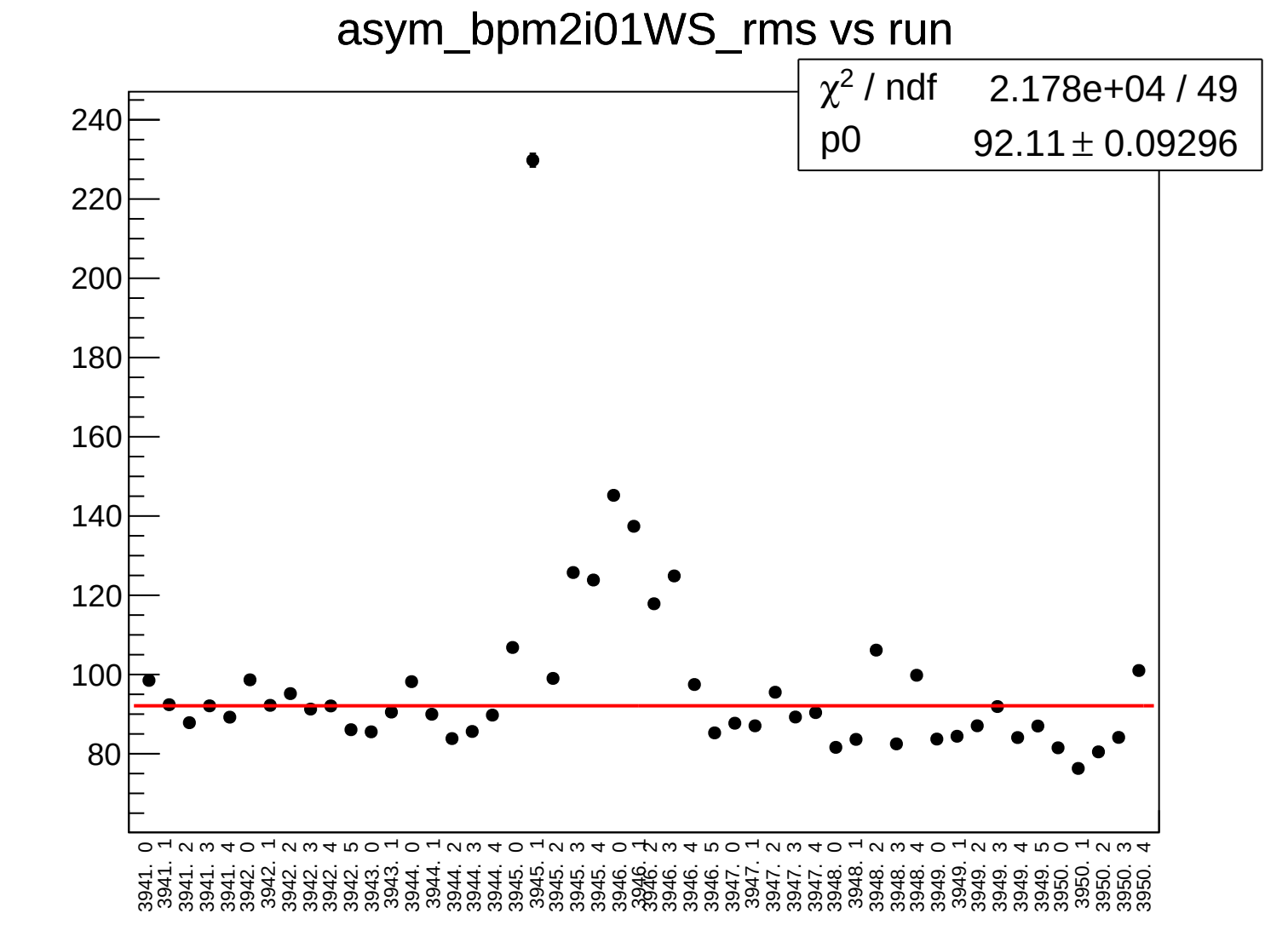
3950. 1
3950. 2
3950. 3
3950. 4


asym_bpm2i01WS_mean vs run
χ² / ndf 5704 / 49
p0 −5.331e+04 ± 131.5
−10000
−20000
−30000
−40000
−50000
−60000
pull
Entries 50
Mean 20.51
Std Dev 21.18
50
40
30
20
10
0
−10


pull1D
Entries 50
Mean −2.088
Std Dev 2.625
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i01WS_rms vs run
$\chi^2$ / ndf 2.178e+04 / 49
p0 92.11 ± 0.09296
240
220
200
180
160
140
120
100
80
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
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3948. 2
3948. 3
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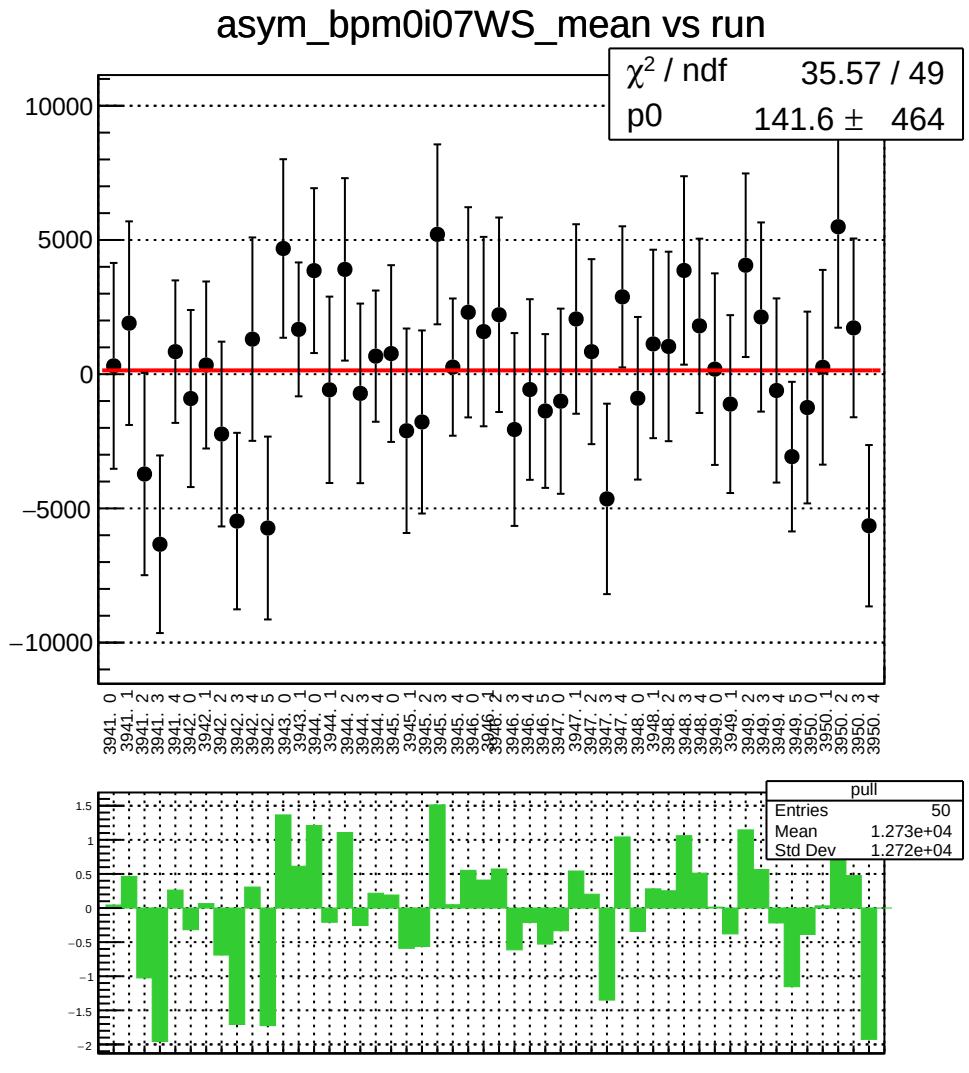
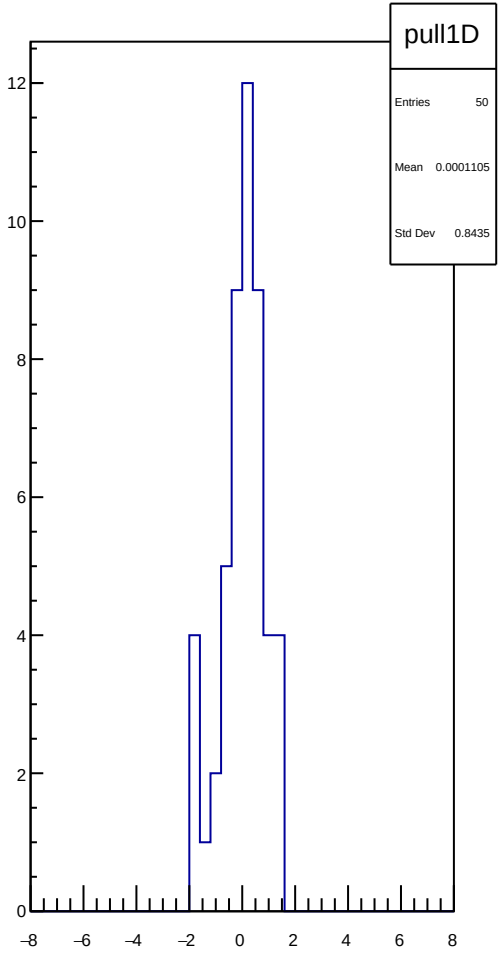
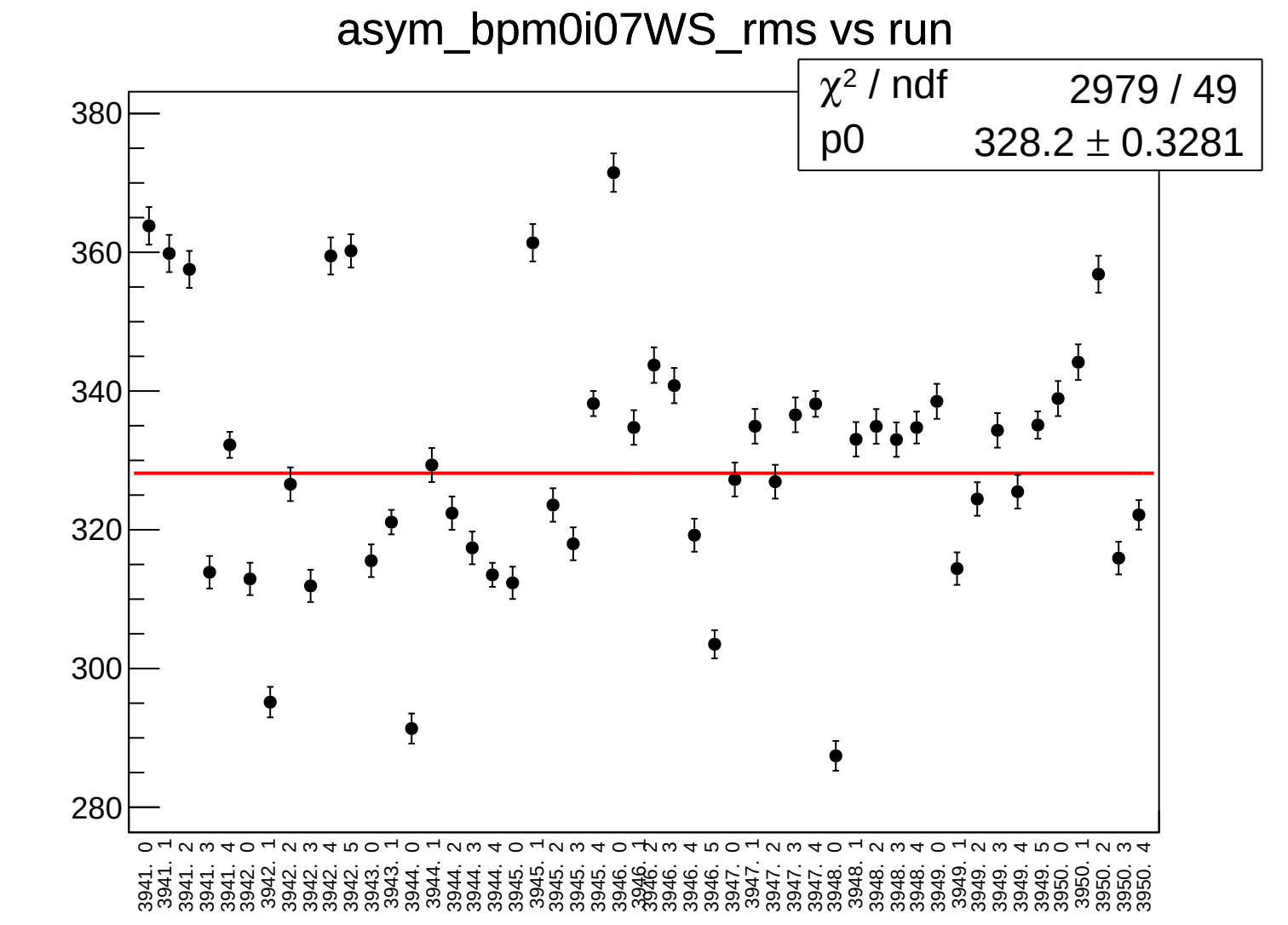
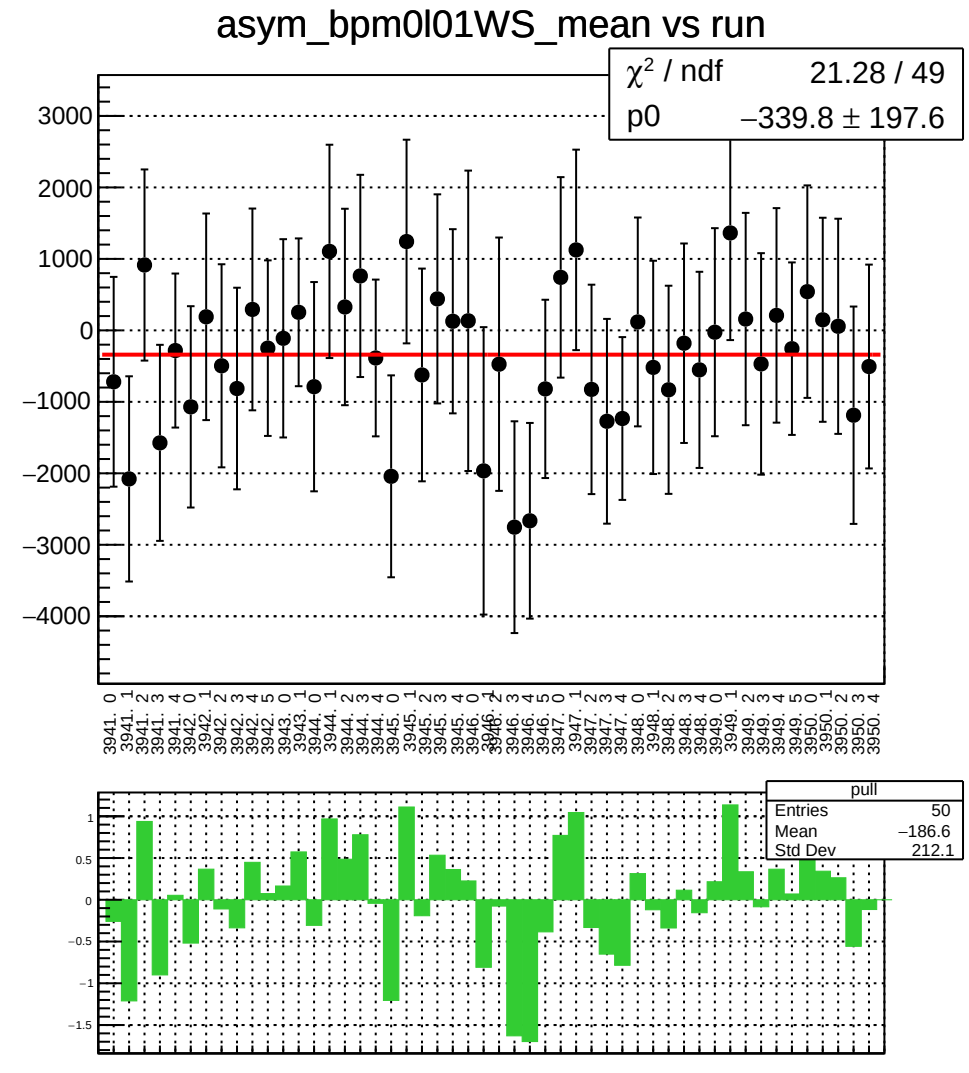
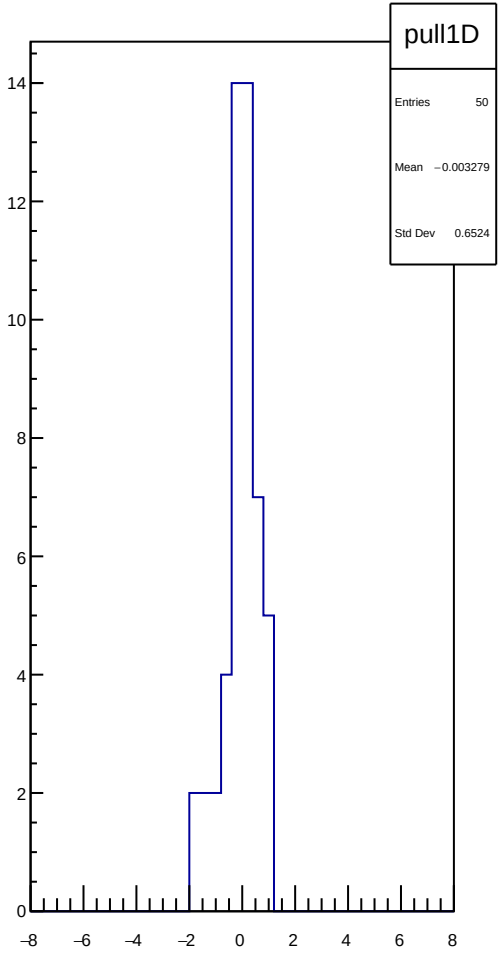
3950. 4

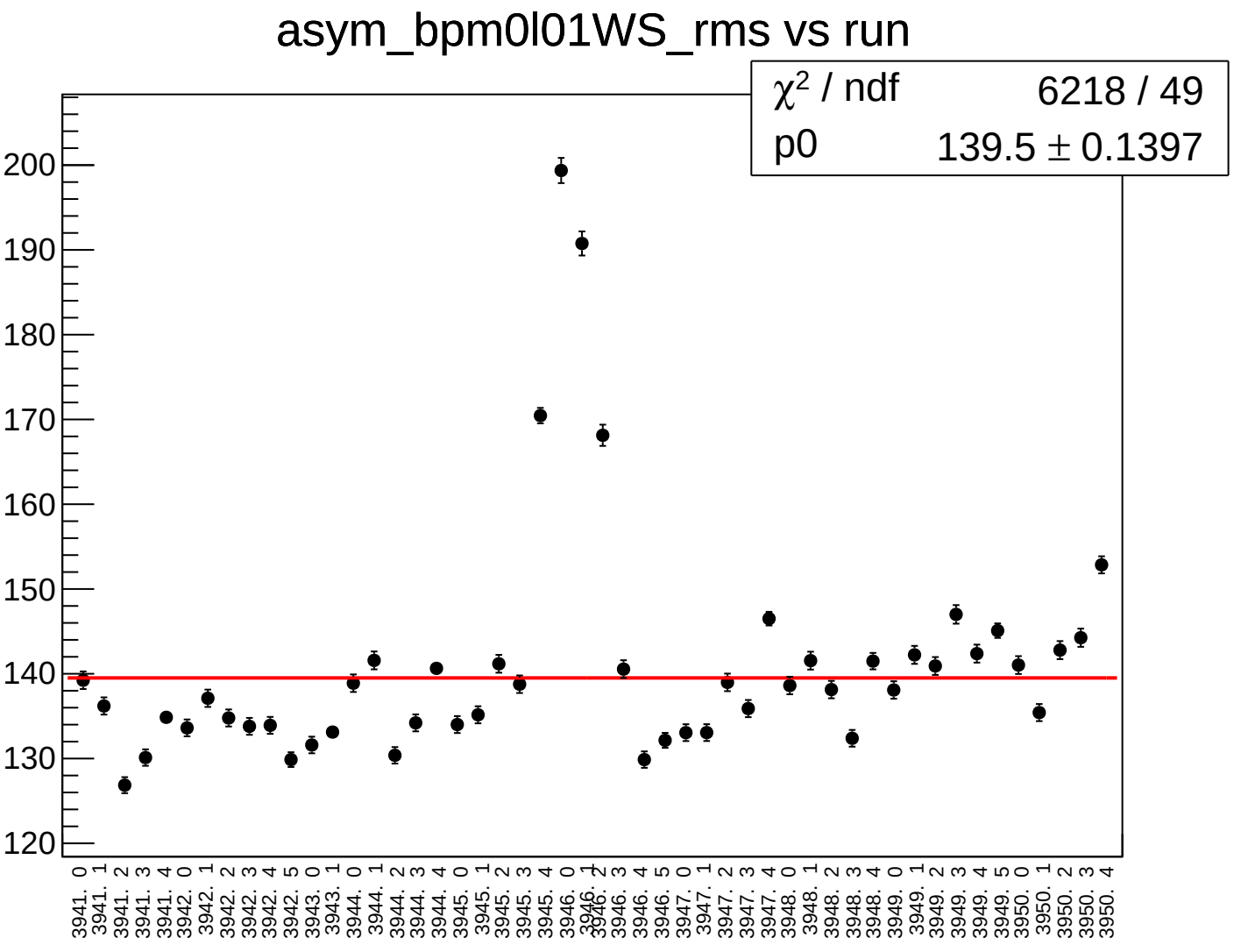

asym_bpm0i07WS_mean vs run
χ² / ndf 35.57 / 49
p0 141.6 ± 464
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 1.273e+04
Std Dev 1.272e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

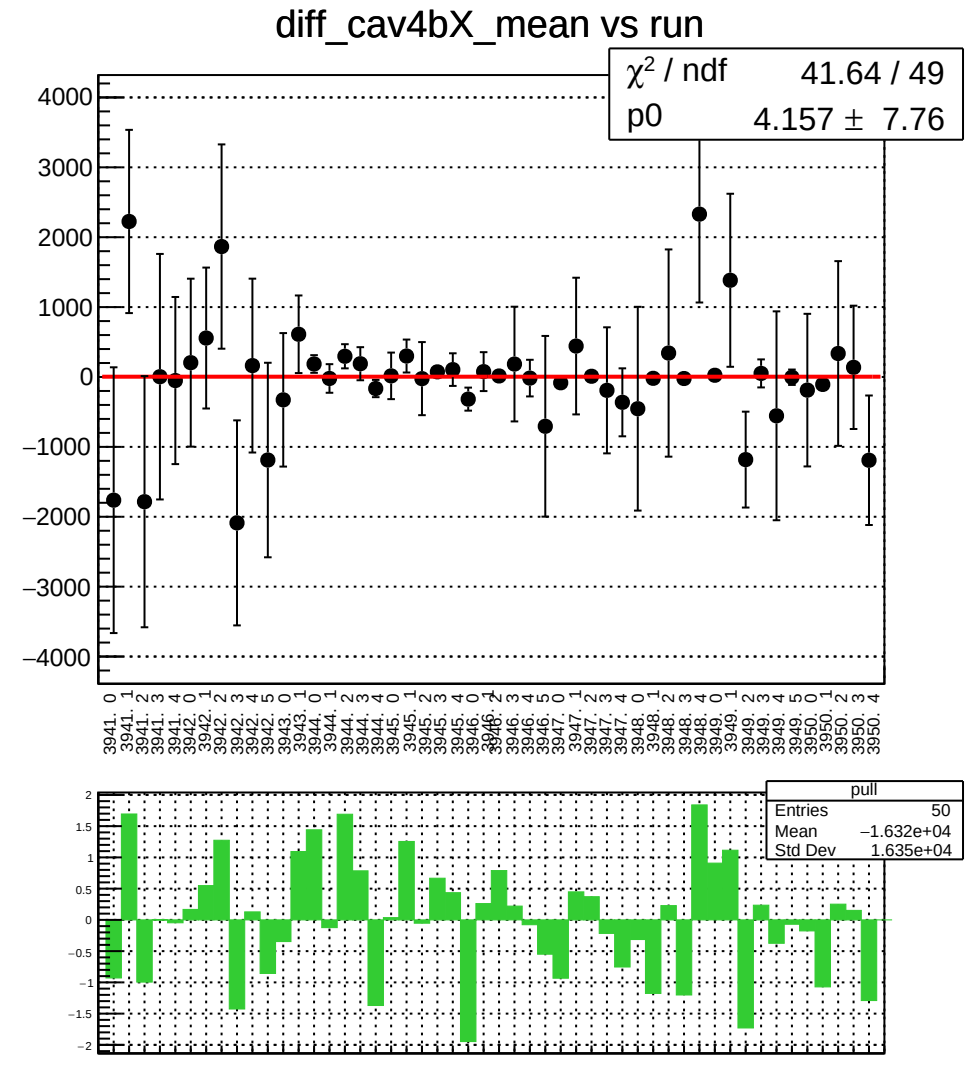

pull1D
Entries 50
Mean 0.0001105
Std Dev 0.8435
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

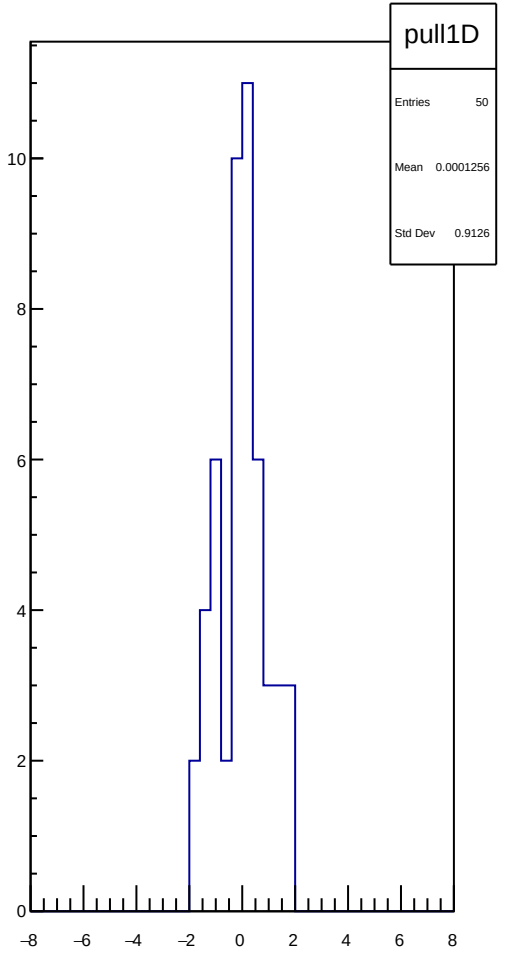

asym_bpm0i07WS_rms vs run
χ² / ndf 2979 / 49
p0 328.2 ± 0.3281
380
360
340
320
300
280
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

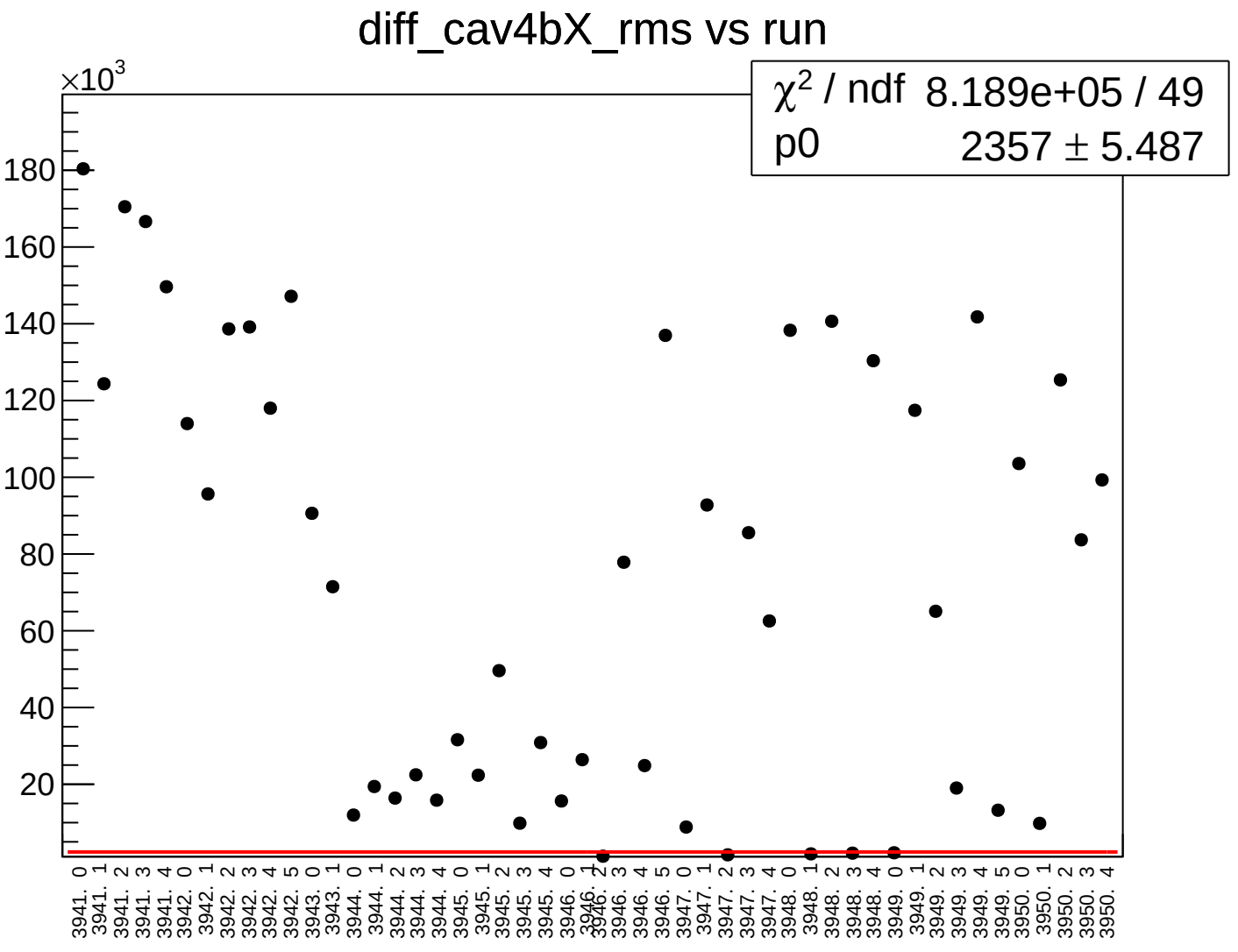

asym_bpm0l01WS_mean vs run
χ² / ndf 21.28 / 49
p0 −339.8 ± 197.6
pull
Entries 50
Mean −186.6
Std Dev 212.1

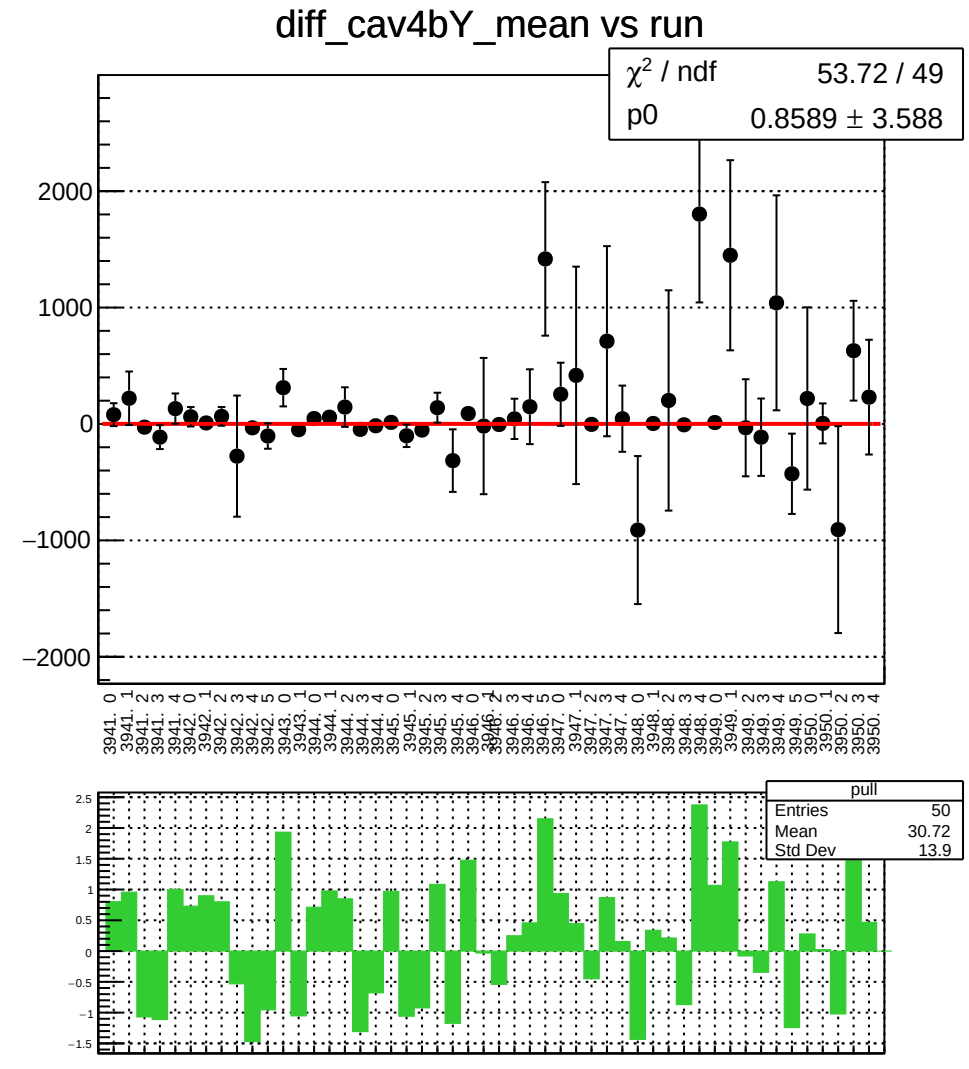

pull1D
Entries 50
Mean −0.003279
Std Dev 0.6524

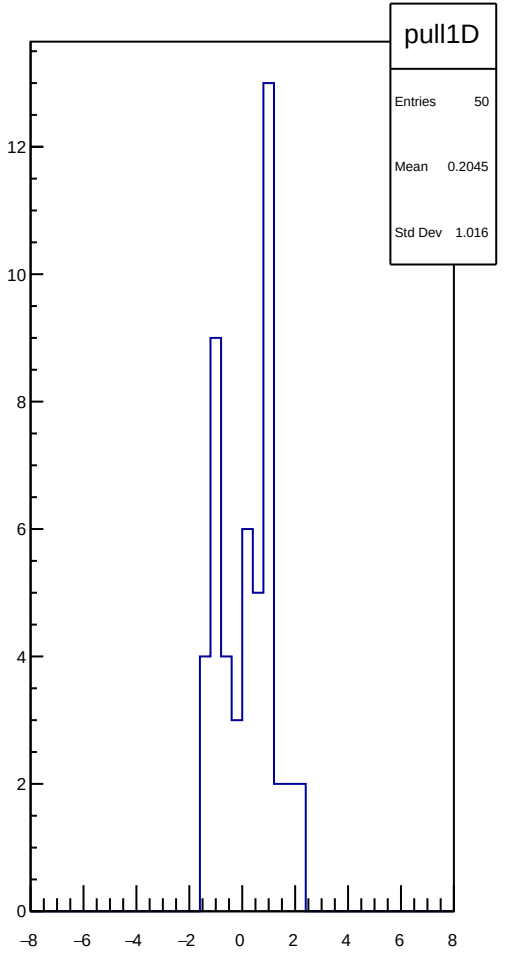

asym_bpm0l01WS_rms vs run
χ² / ndf 6218 / 49
p0 139.5 ± 0.1397
200
190
180
170
160
150
140
130
120
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

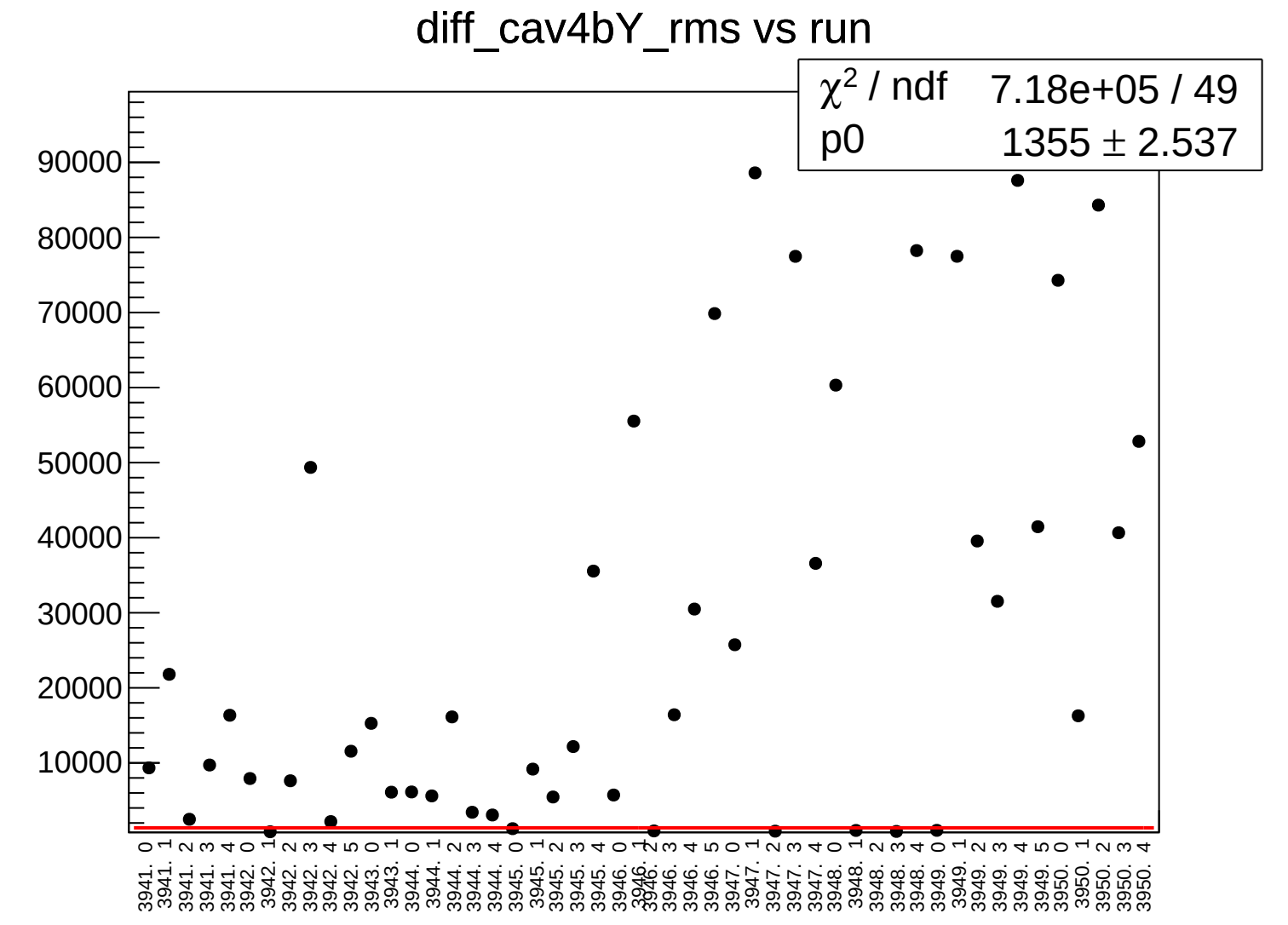

diff_cav4bX_mean vs run
χ² / ndf 41.64 / 49
p0 4.157 ± 7.76
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −1.632e+04
Std Dev 1.635e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

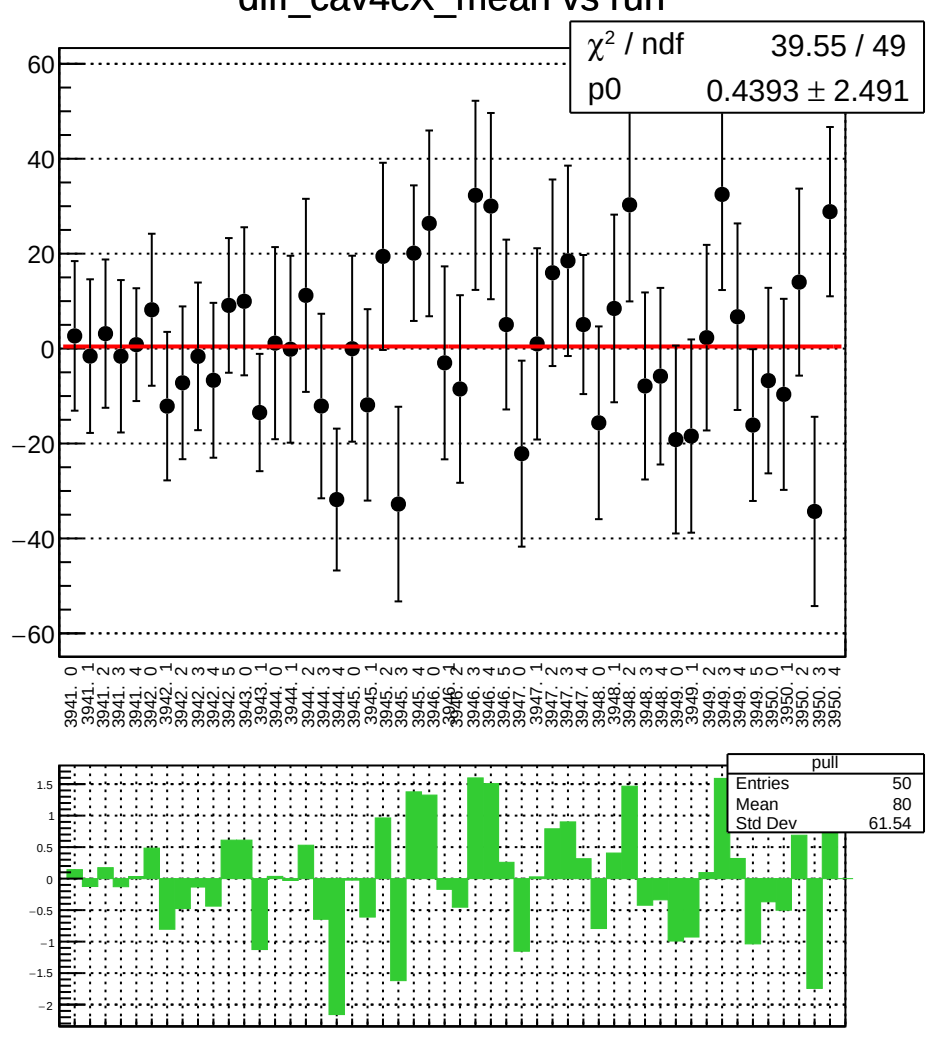

pull1D
Entries 50
Mean 0.0001256
Std Dev 0.9126
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

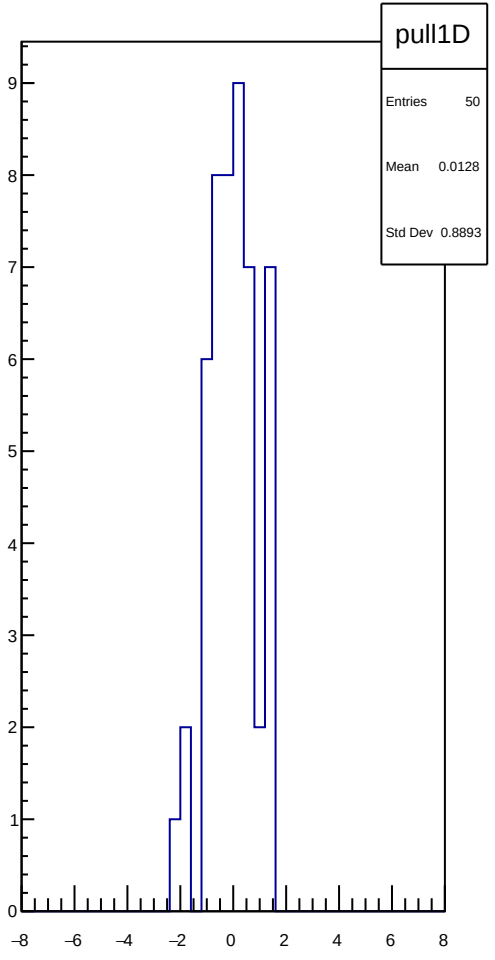

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 8.189e+05 / 49
p0 2357 ± 5.487
180
160
140
120
100
80
60
40
20
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

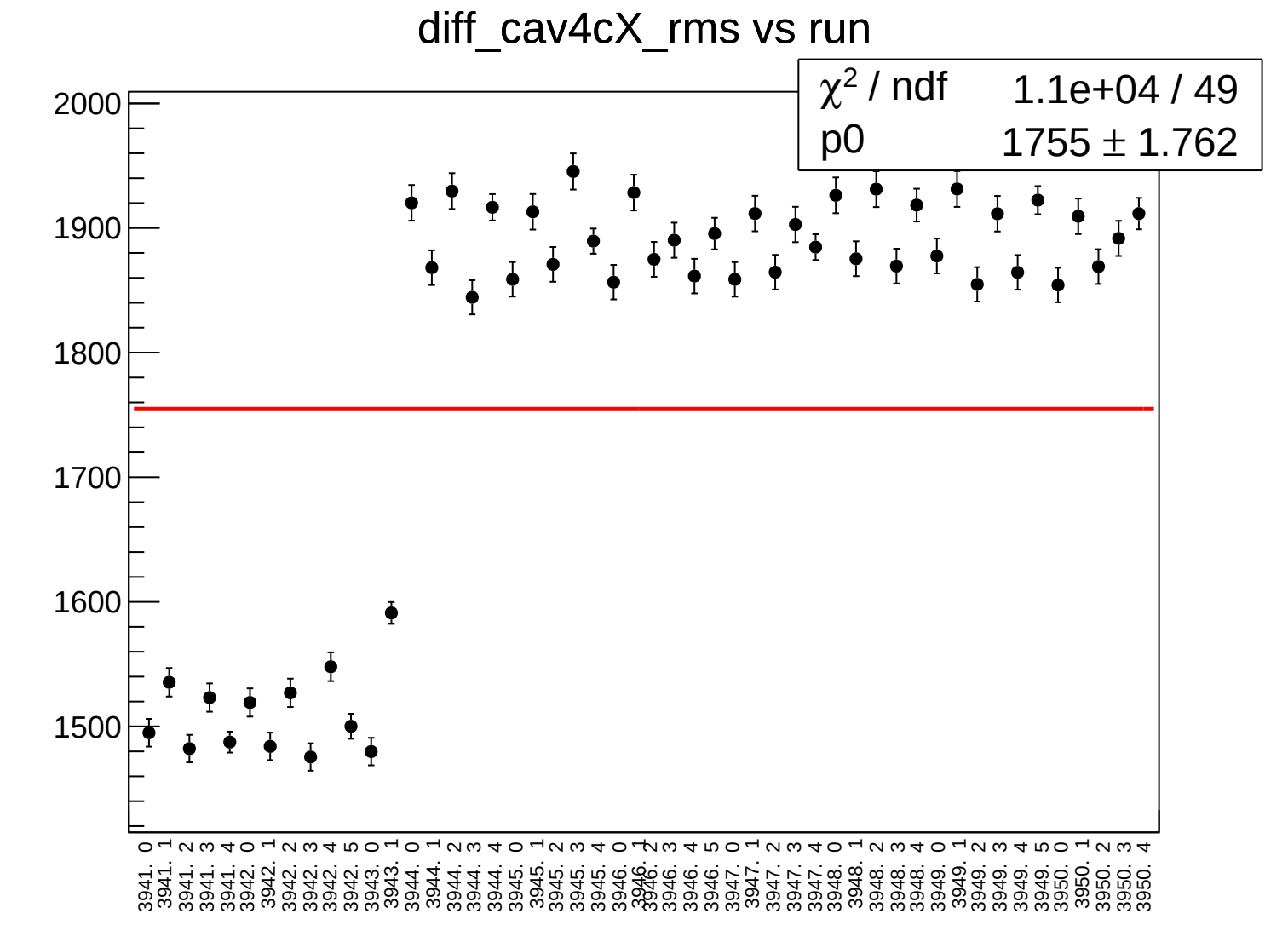

diff_cav4bY_mean vs run
χ² / ndf 53.72 / 49
p0 0.8589 ± 3.588
2000
1000
0
−1000
−2000
pull
Entries 50
Mean 30.72
Std Dev 13.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

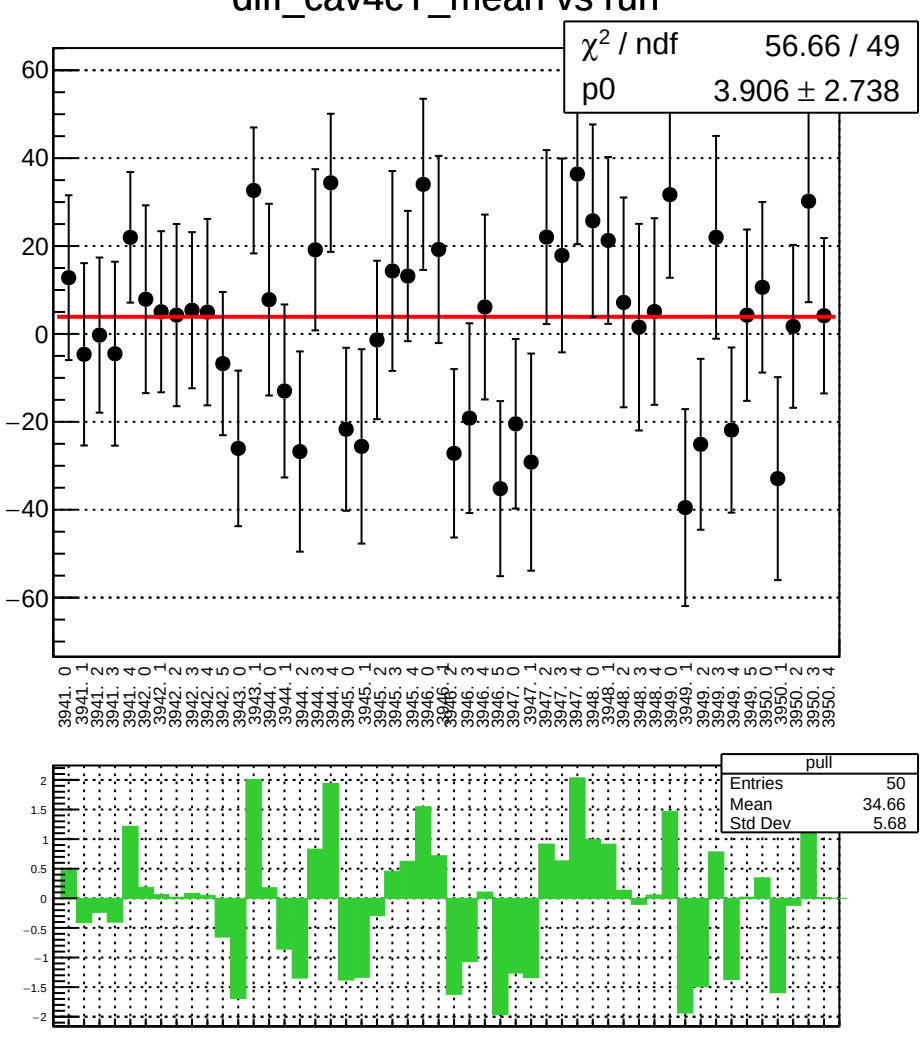

pull1D
Entries 50
Mean 0.2045
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

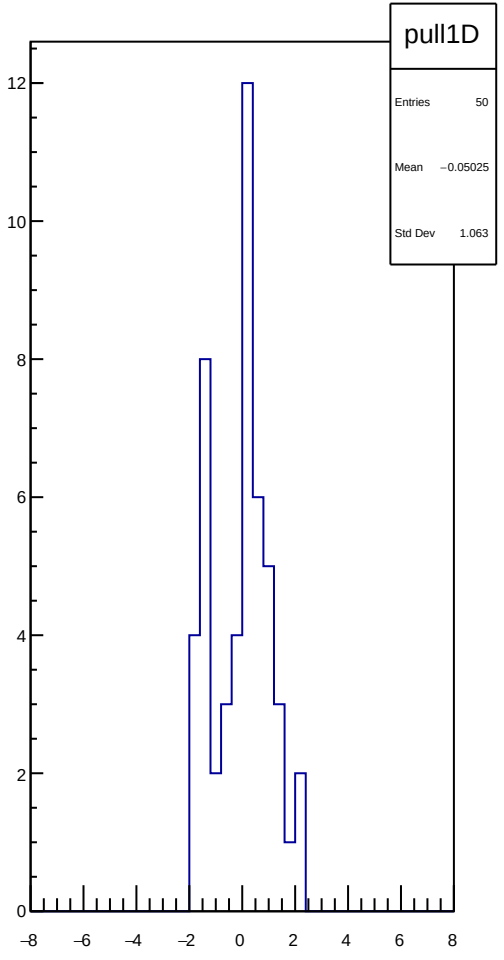

diff_cav4bY_rms vs run
$\chi^2$ / ndf 7.18e+05 / 49
p0 1355 ± 2.537
90000
80000
70000
60000
50000
40000
30000
20000
10000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

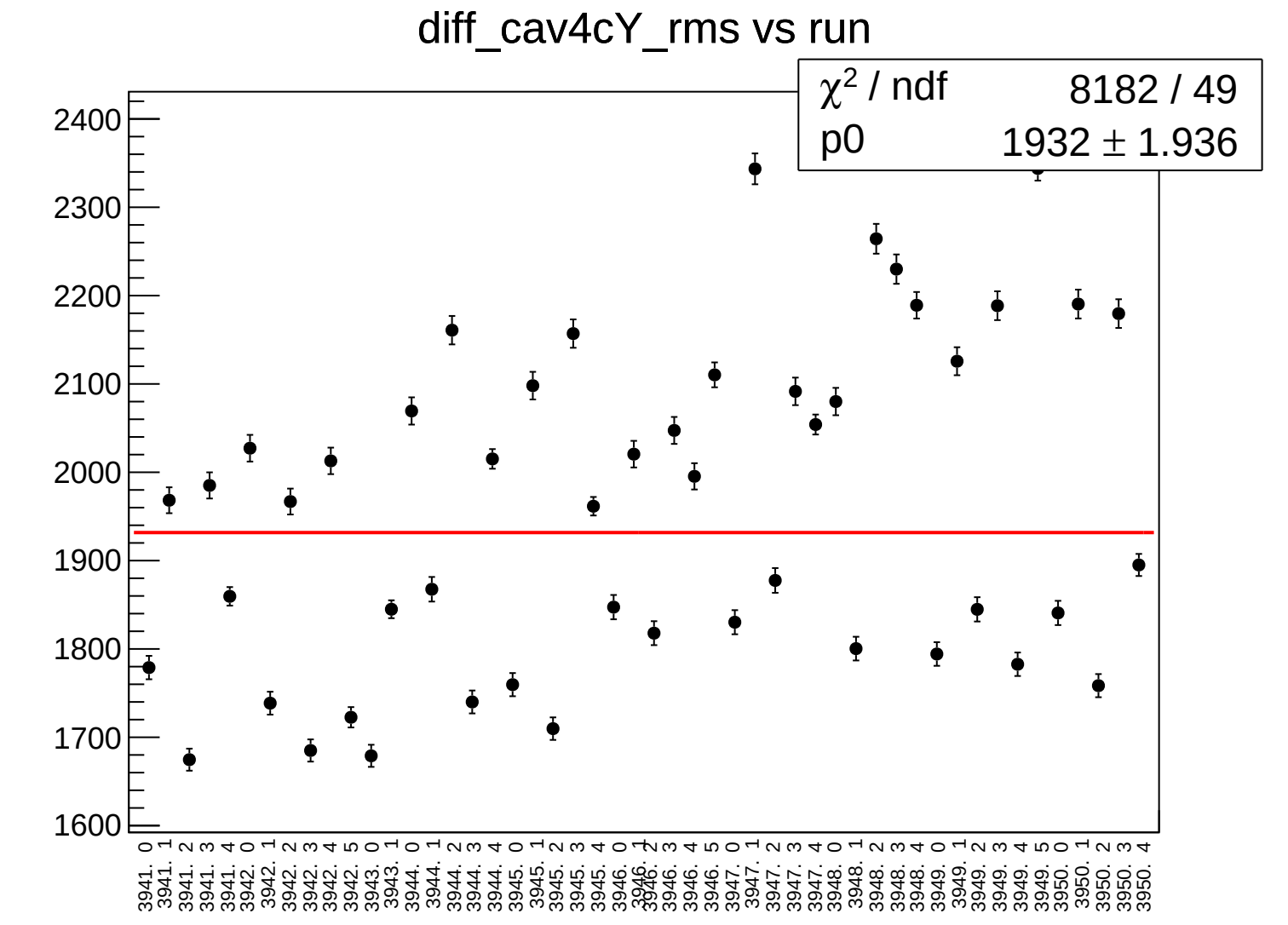

diff_cav4cX_mean vs run
χ² / ndf 39.55 / 49
p0 0.4393 ± 2.491
pull
Entries 50
Mean 80
Std Dev 61.54

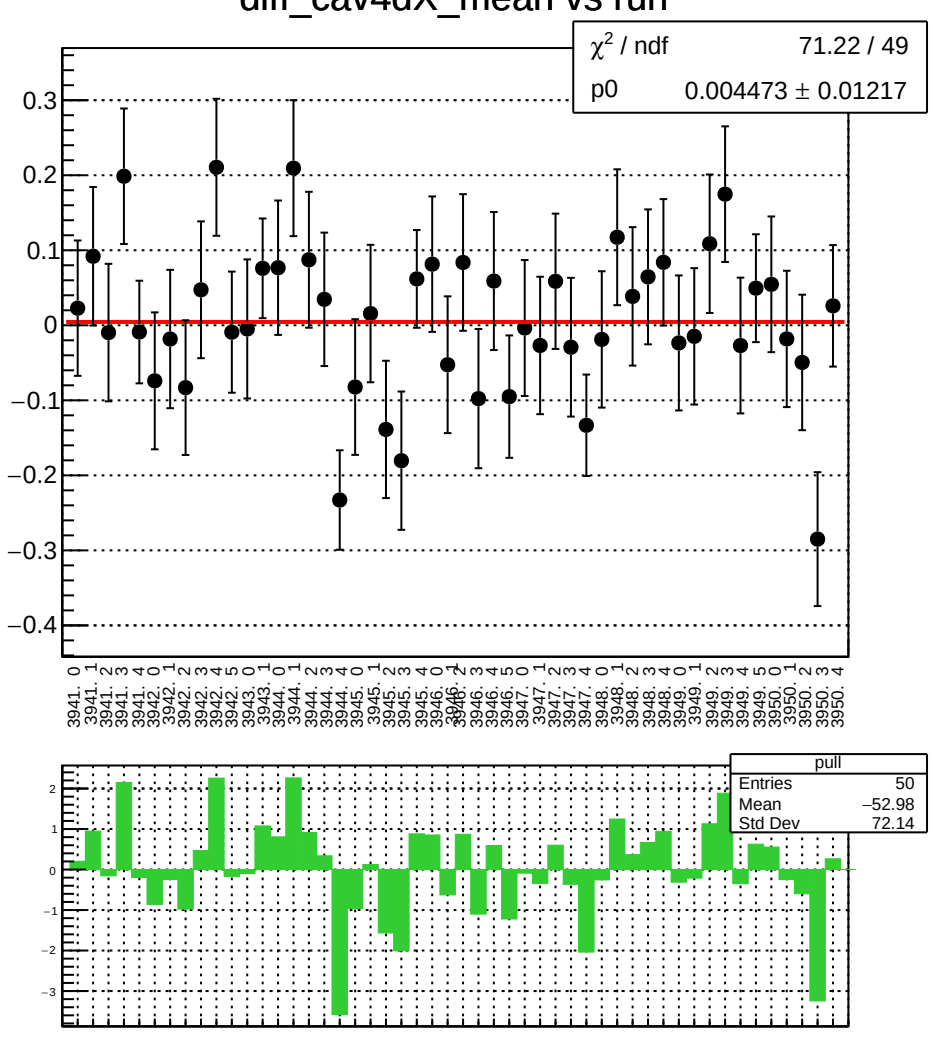

pull1D
Entries 50
Mean 0.0128
Std Dev 0.8893

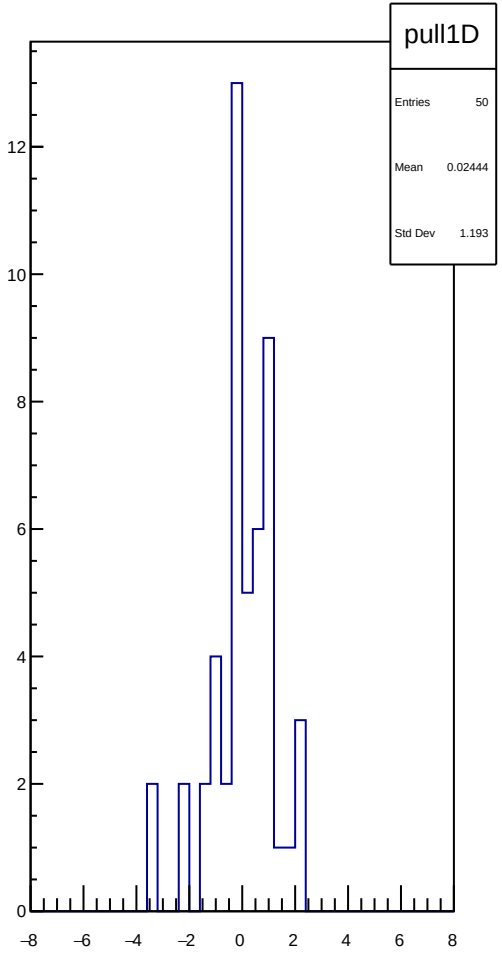

diff_cav4cX_rms vs run
χ² / ndf 1.1e+04 / 49
p0 1755 ± 1.762
2000
1900
1800
1700
1600
1500
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

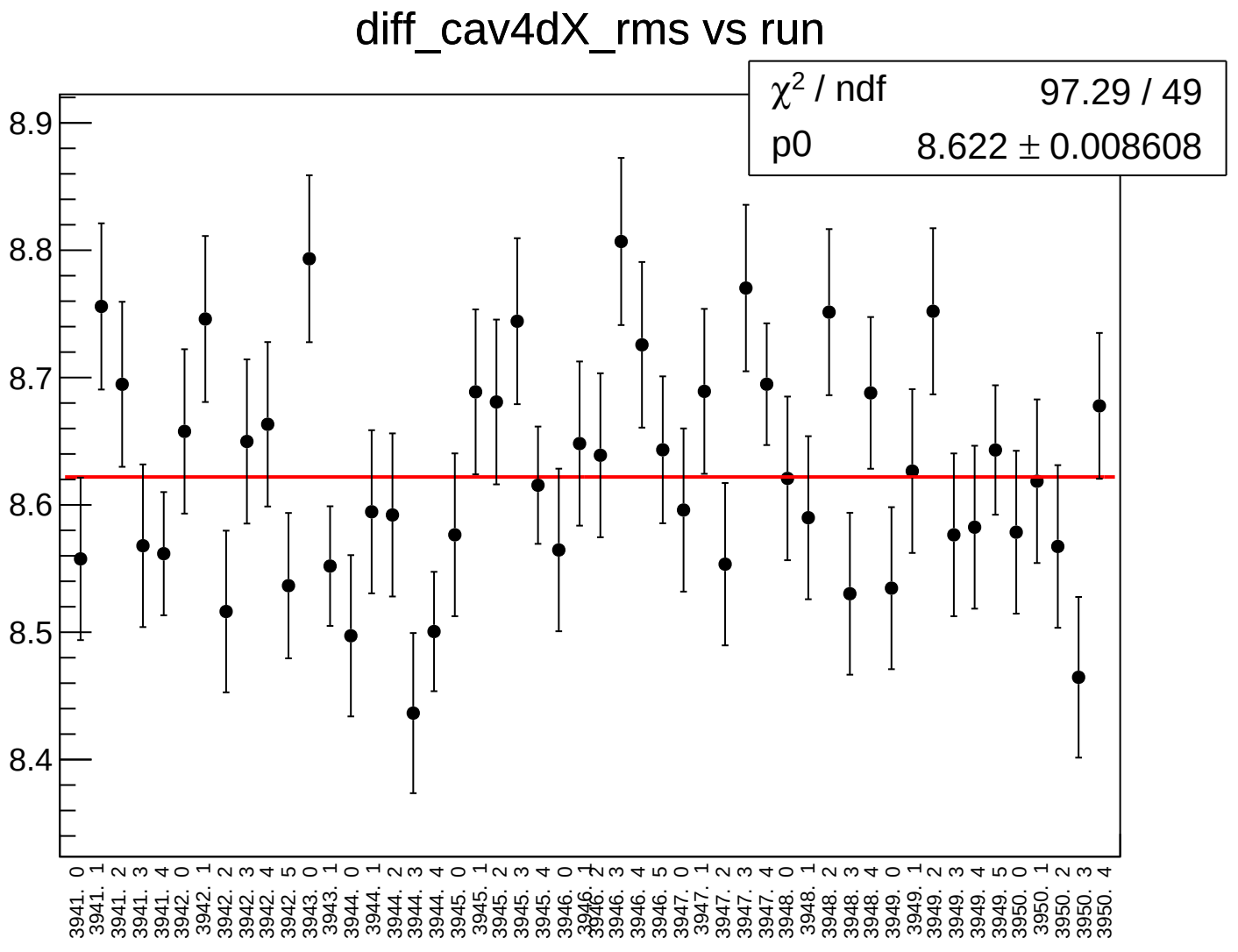

diff_cav4cY_mean vs run
χ² / ndf 56.66 / 49
p0 3.906 ± 2.738
pull
Entries 50
Mean 34.66
Std Dev 5.68

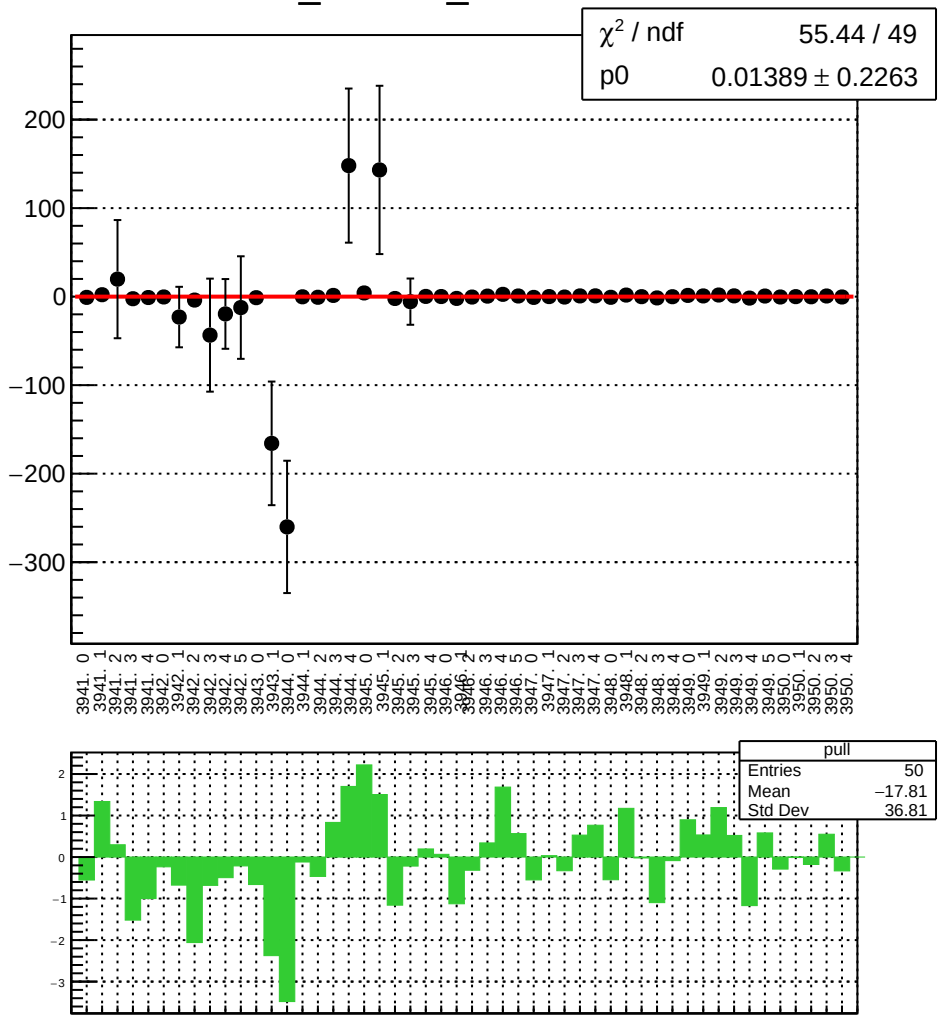

pull1D
Entries 50
Mean −0.05025
Std Dev 1.063

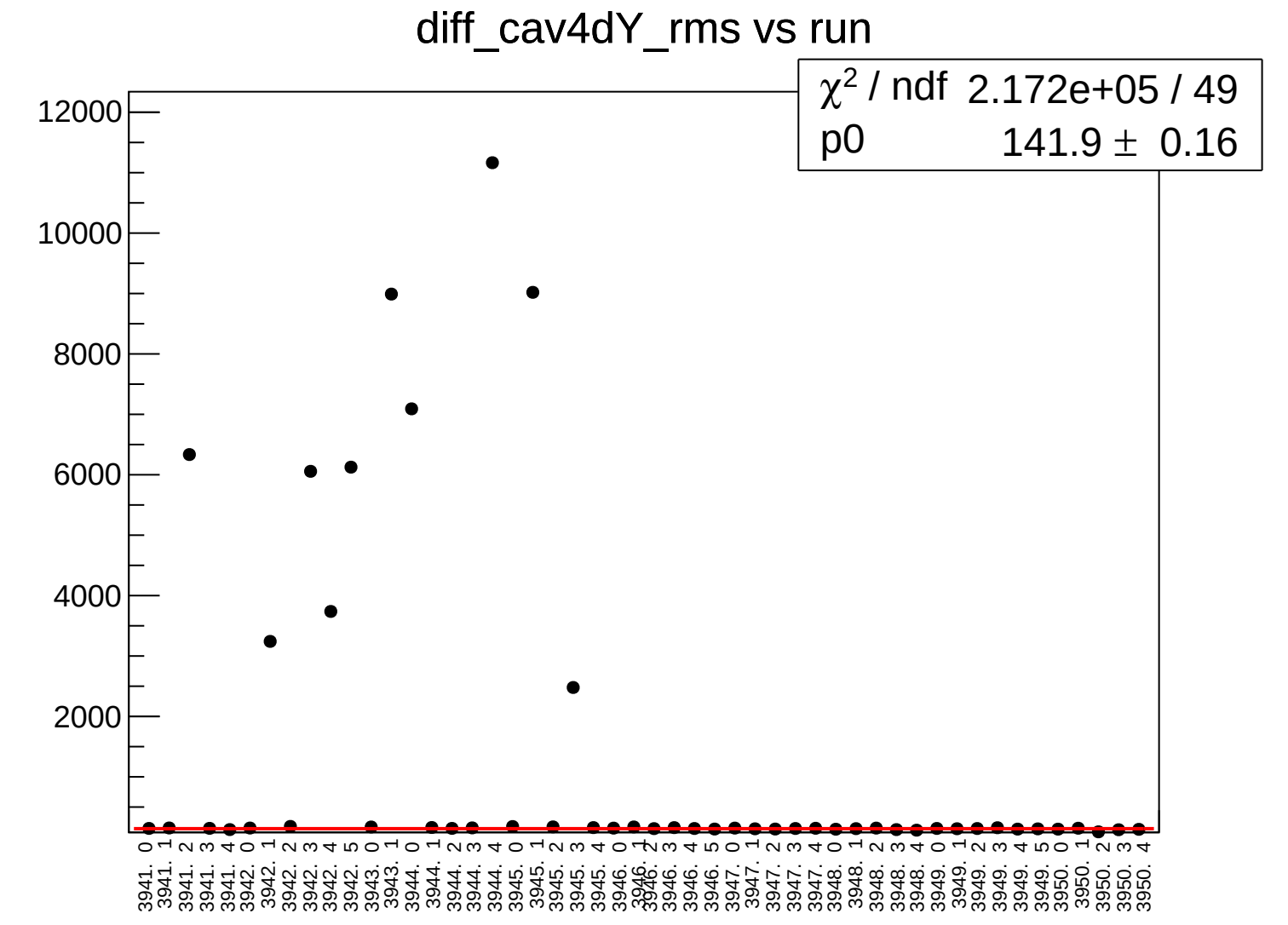

diff_cav4cY_rms vs run
χ² / ndf 8182 / 49
p0 1932 ± 1.936
2400
2300
2200
2100
2000
1900
1800
1700
1600
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

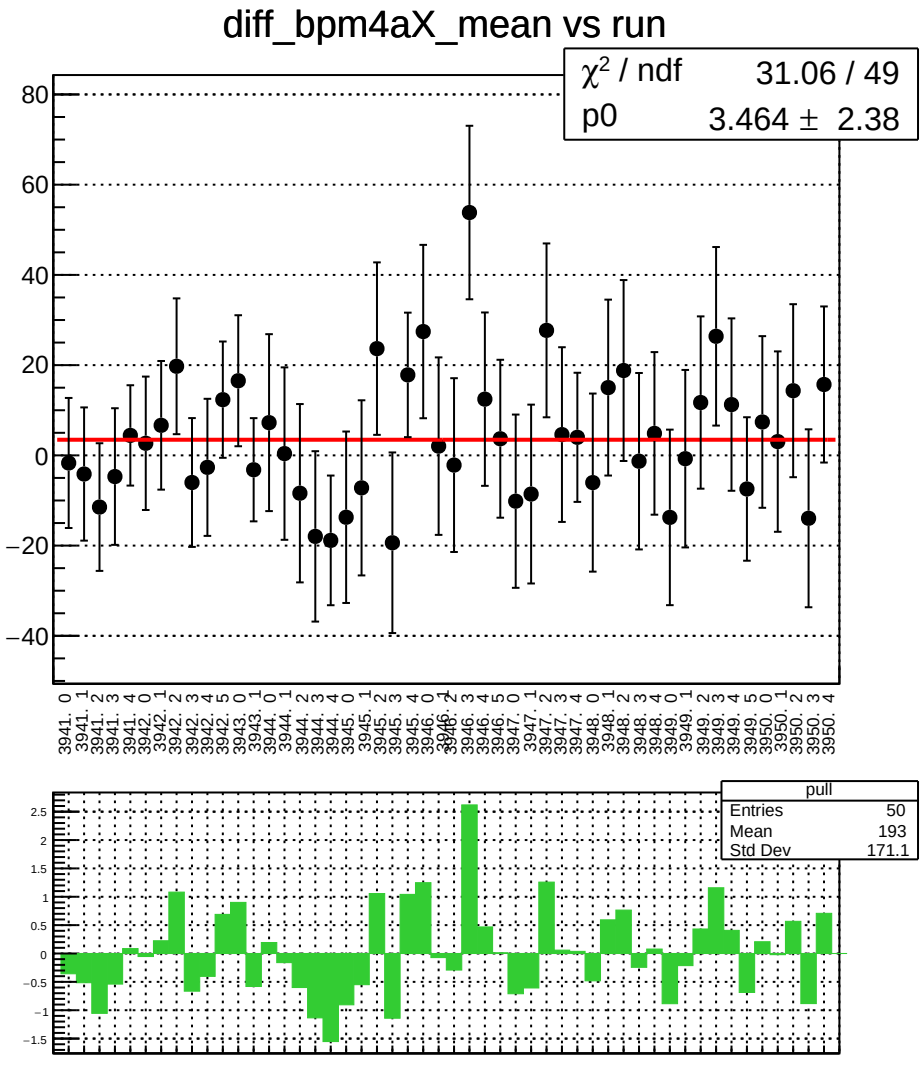

diff_cav4dX_mean vs run
χ² / ndf 71.22 / 49
p0 0.004473 ± 0.01217
pull
Entries 50
Mean −52.98
Std Dev 72.14

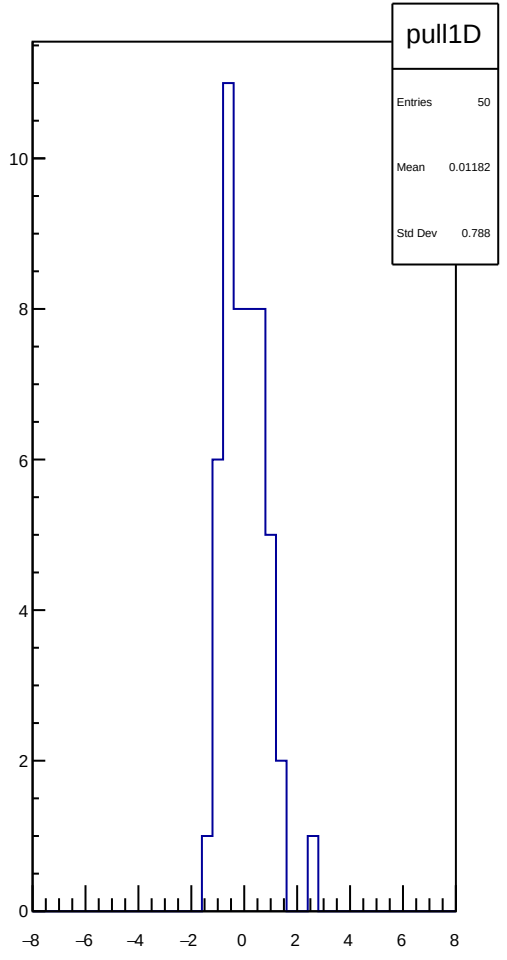

pull1D
Entries 50
Mean 0.02444
Std Dev 1.193

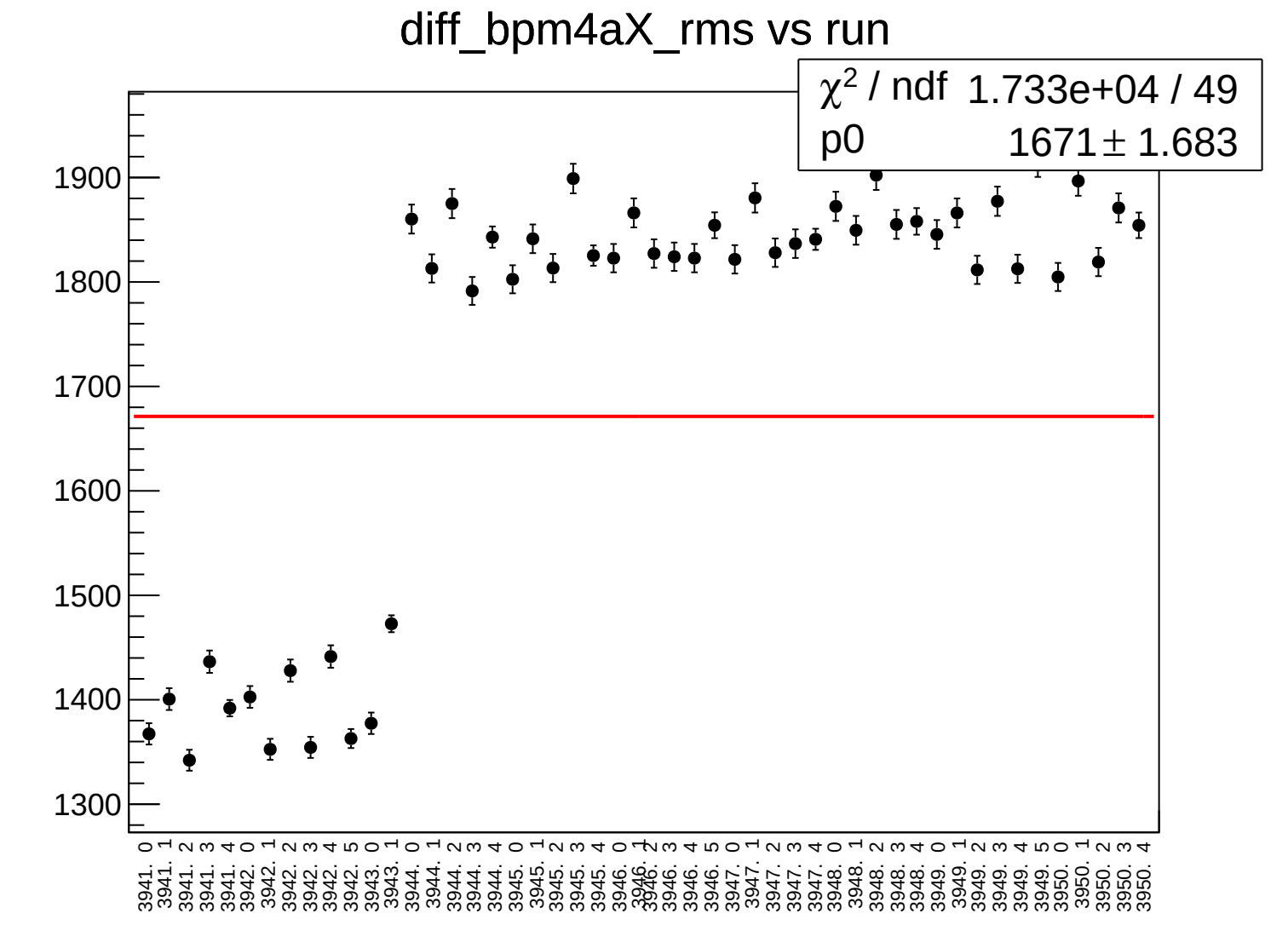

diff_cav4dX_rms vs run
χ² / ndf 97.29 / 49
p0 8.622 ± 0.008608
8.9
8.8
8.7
8.6
8.5
8.4
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

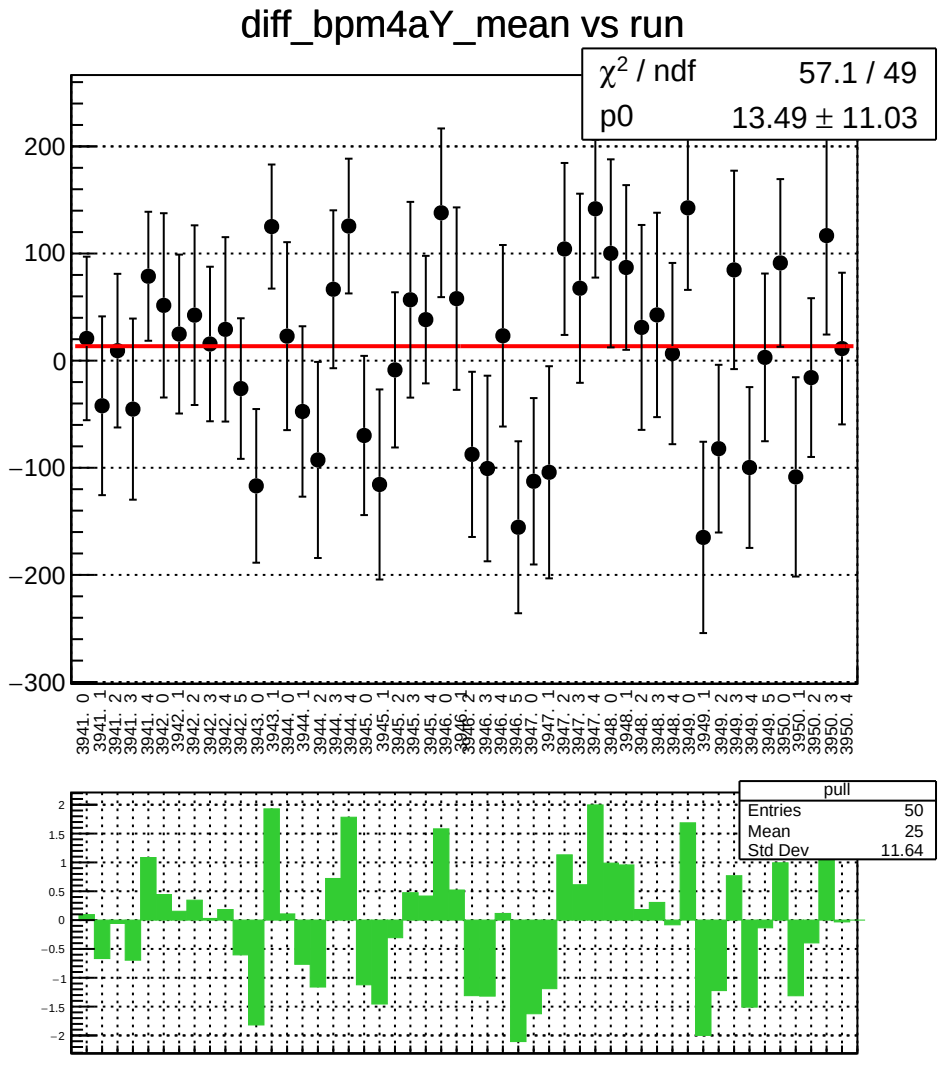

diff_cav4dY_mean vs run
χ² / ndf 55.44 / 49
p0 0.01389 ± 0.2263
200
100
0
−100
−200
−300
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −17.81
Std Dev 36.81
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean −0.08895
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

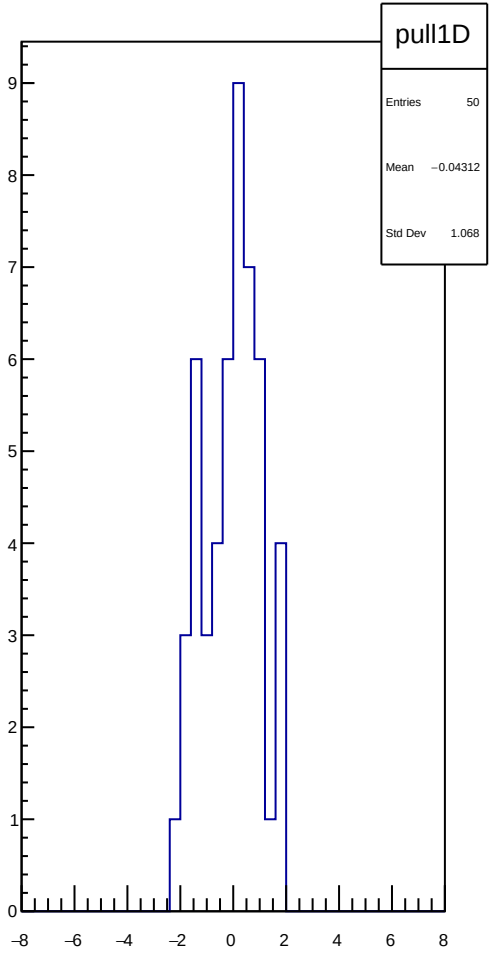

diff_cav4dY_rms vs run
χ² / ndf 2.172e+05 / 49
p0 141.9 ± 0.16
12000
10000
8000
6000
4000
2000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

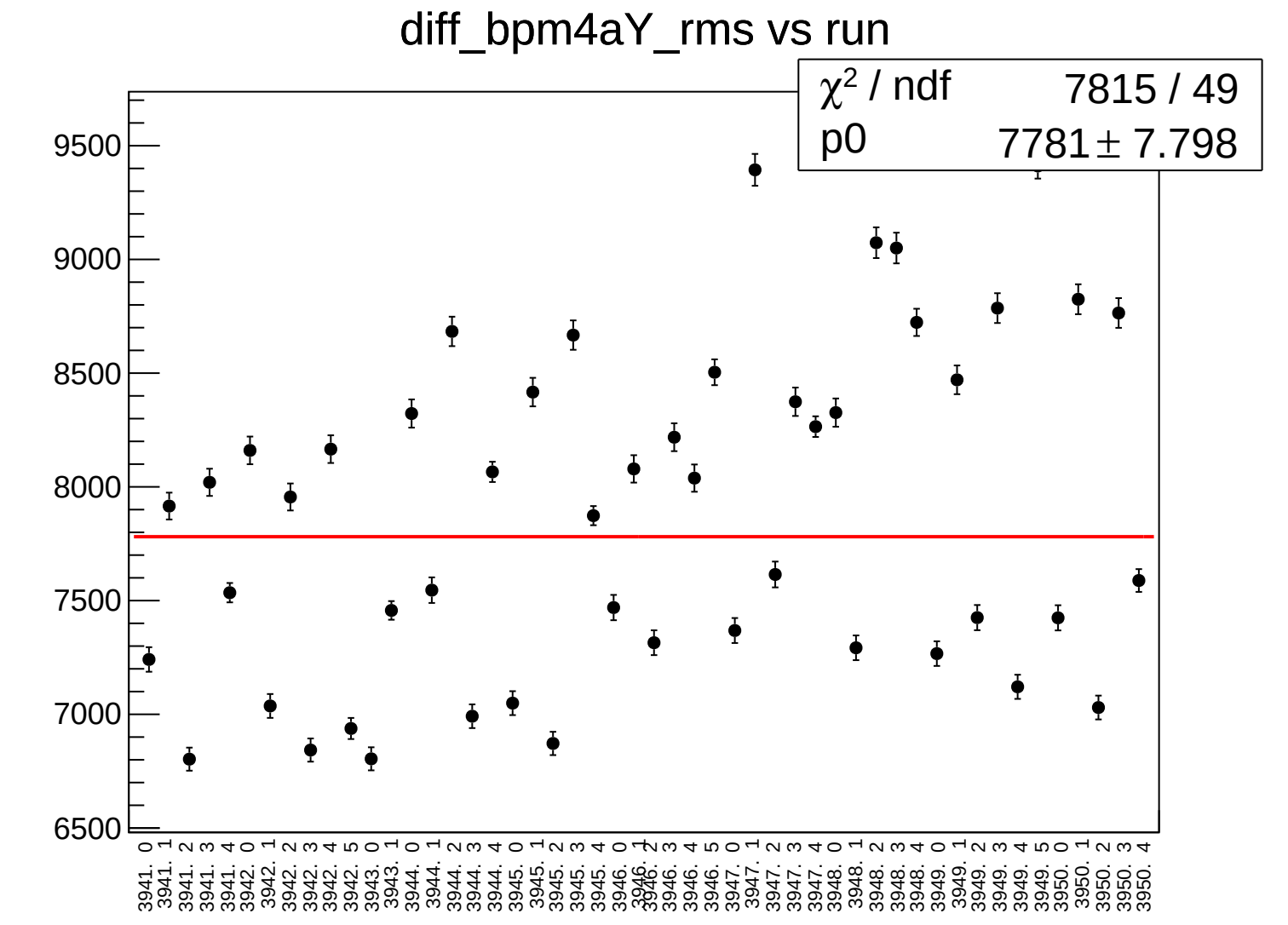

diff_bpm4aX_mean vs run
χ² / ndf 31.06 / 49
p0 3.464 ± 2.38
pull
Entries 50
Mean 193
Std Dev 171.1

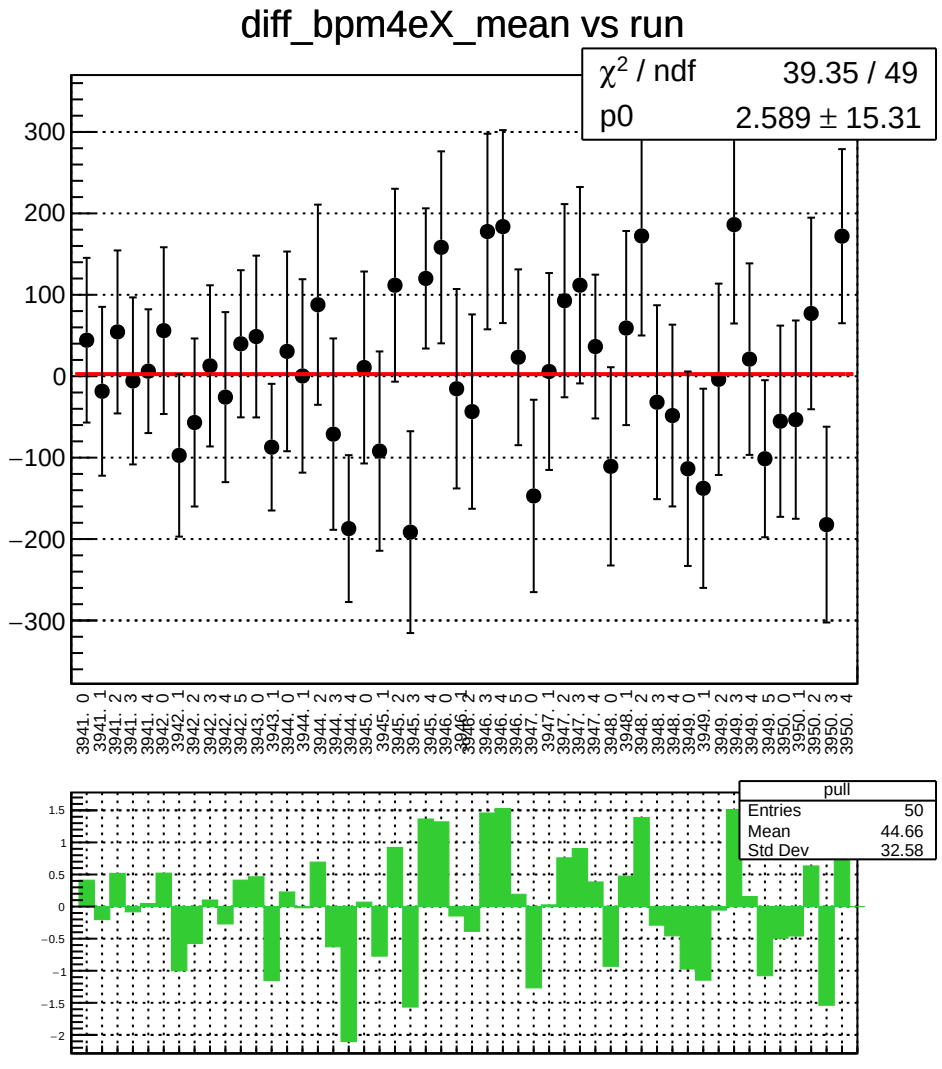

pull1D
Entries 50
Mean 0.01182
Std Dev 0.788

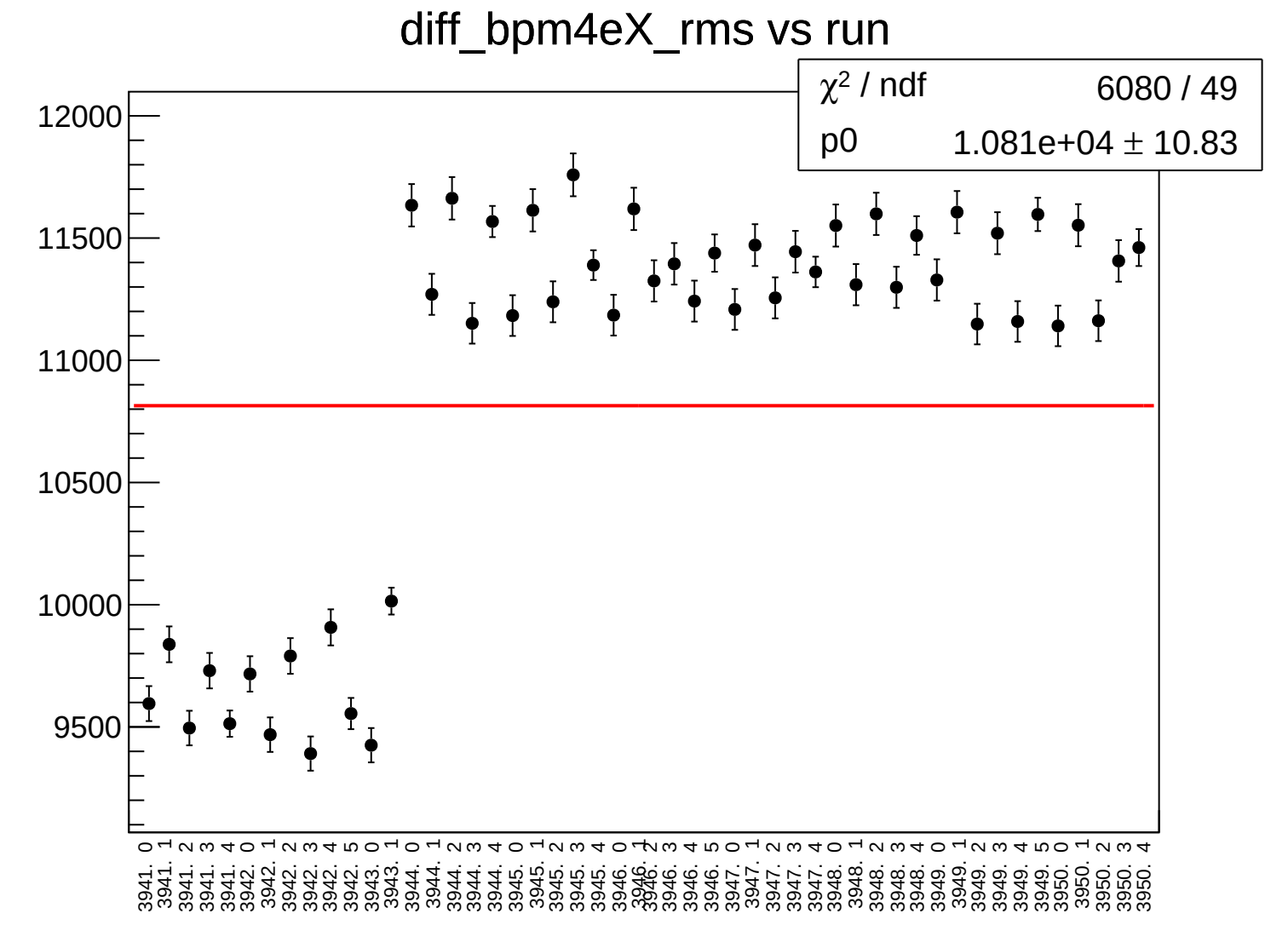

diff_bpm4aX_rms vs run
χ² / ndf 1.733e+04 / 49
p0 1671 ± 1.683
1900
1800
1700
1600
1500
1400
1300
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

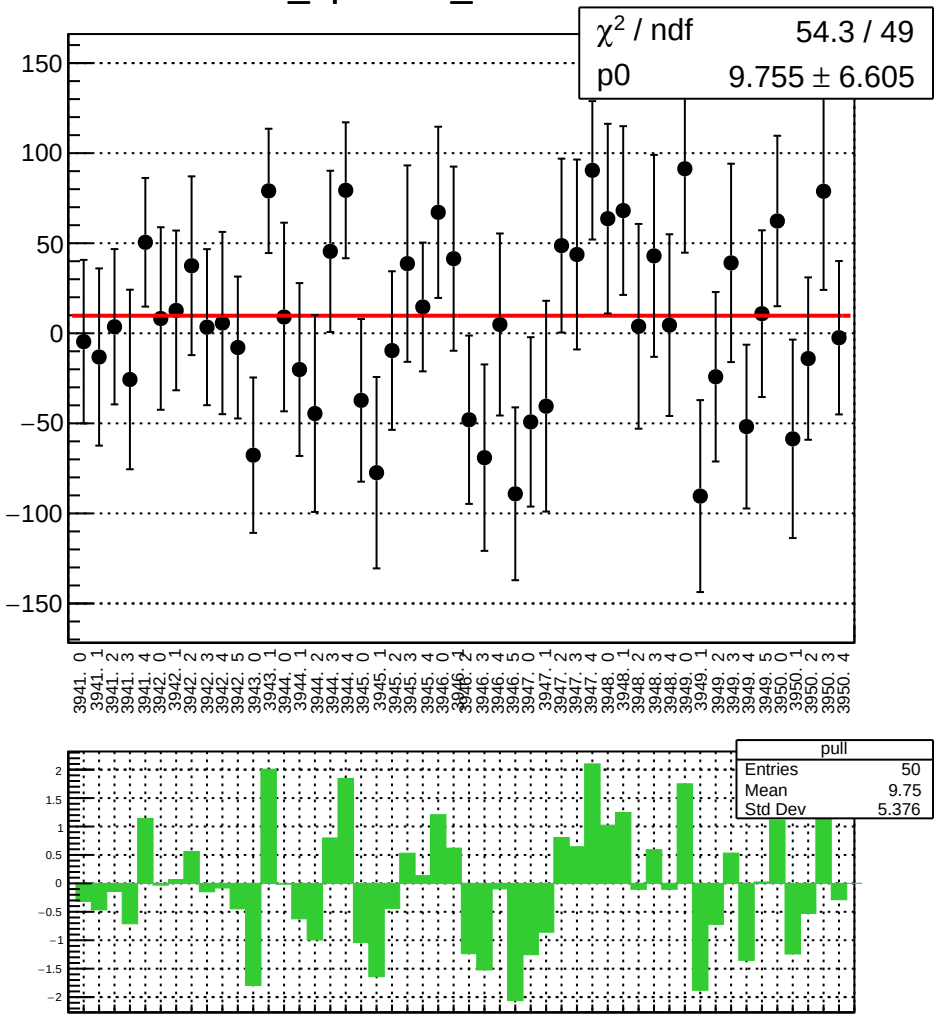

diff_bpm4aY_mean vs run
χ² / ndf 57.1 / 49
p0 13.49 ± 11.03
200
100
0
−100
−200
−300
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 25
Std Dev 11.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

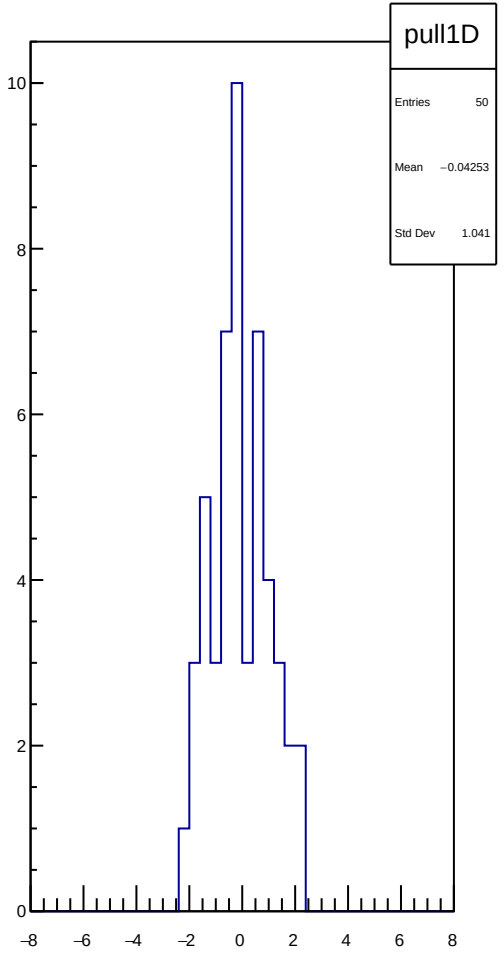

pull1D
Entries 50
Mean −0.04312
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

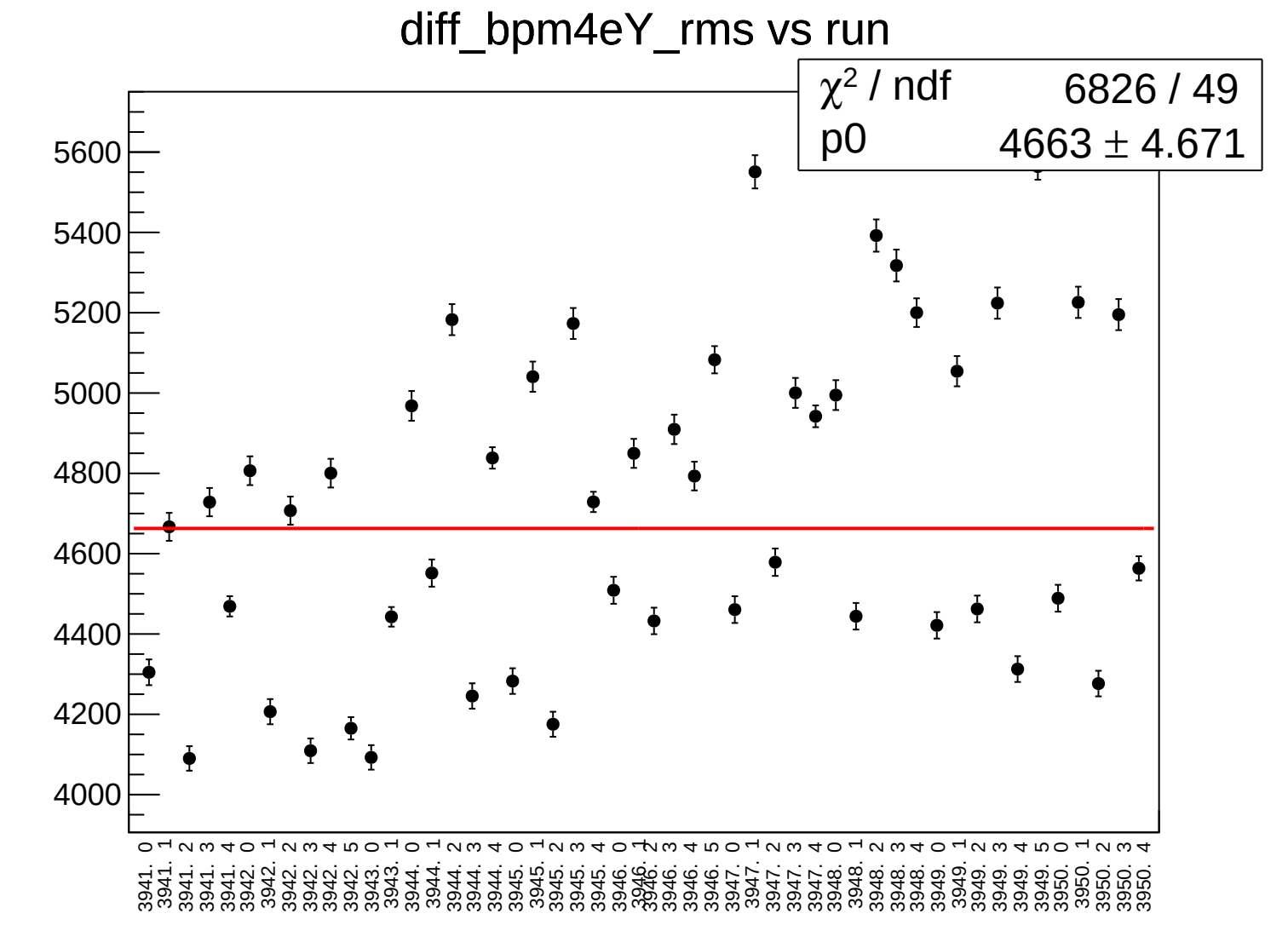

diff_bpm4aY_rms vs run
χ² / ndf 7815 / 49
p0 7781 ± 7.798
9500
9000
8500
8000
7500
7000
6500
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

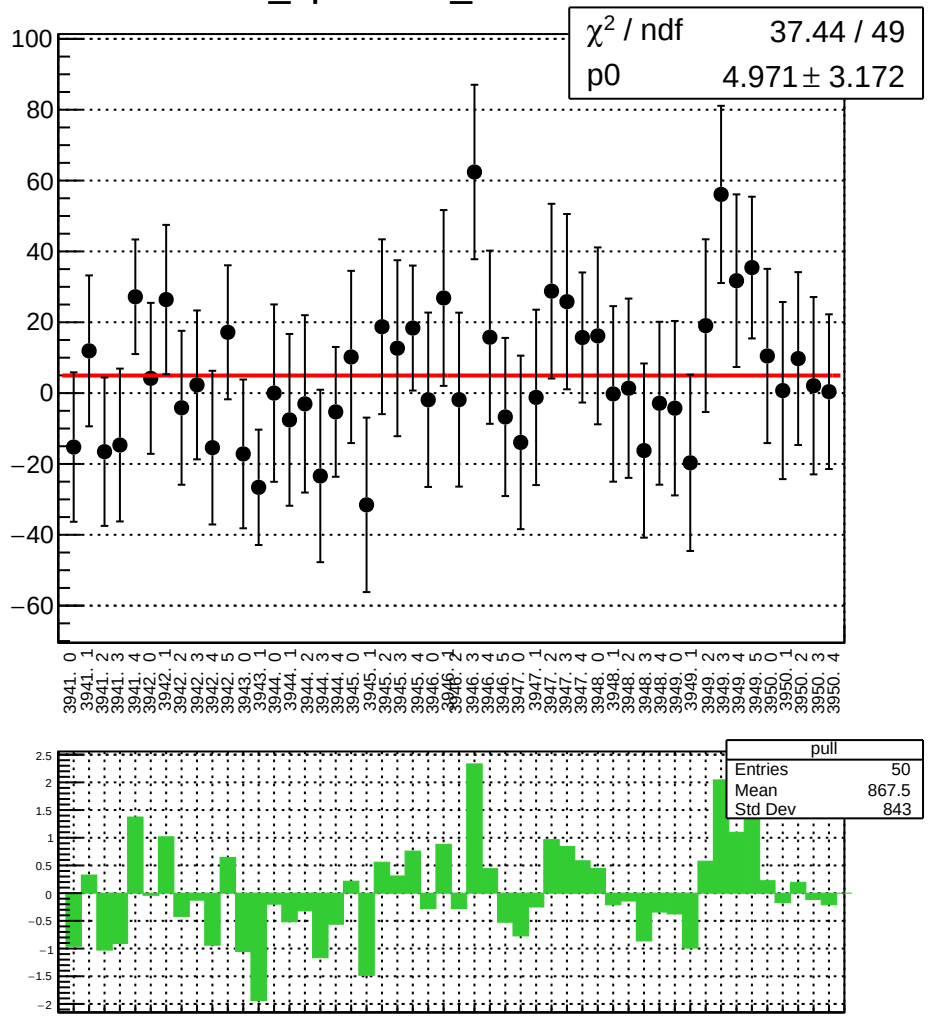

diff_bpm4eX_mean vs run
χ² / ndf 39.35 / 49
p0 2.589 ± 15.31
300
200
100
0
−100
−200
−300
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 44.66
Std Dev 32.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.009777
Std Dev 0.887
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

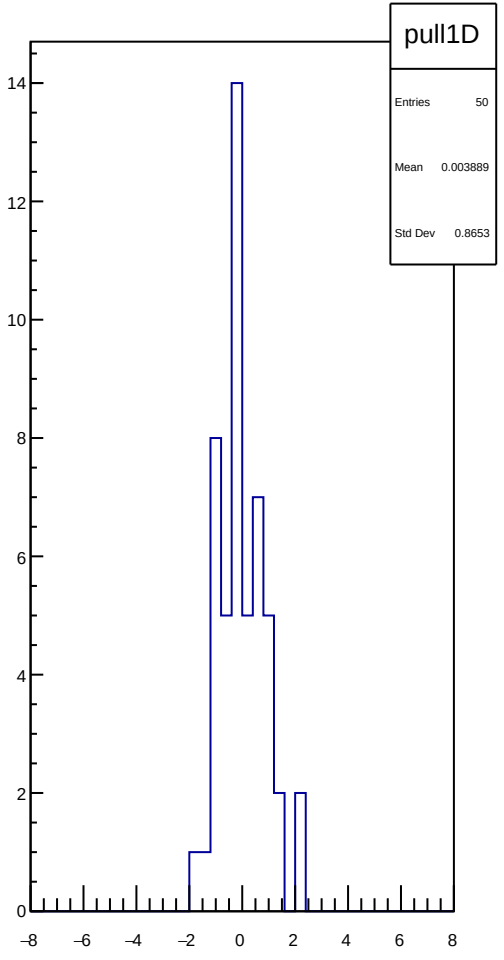

diff_bpm4eX_rms vs run
χ² / ndf 6080 / 49
p0 1.081e+04 ± 10.83
12000
11500
11000
10500
10000
9500
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

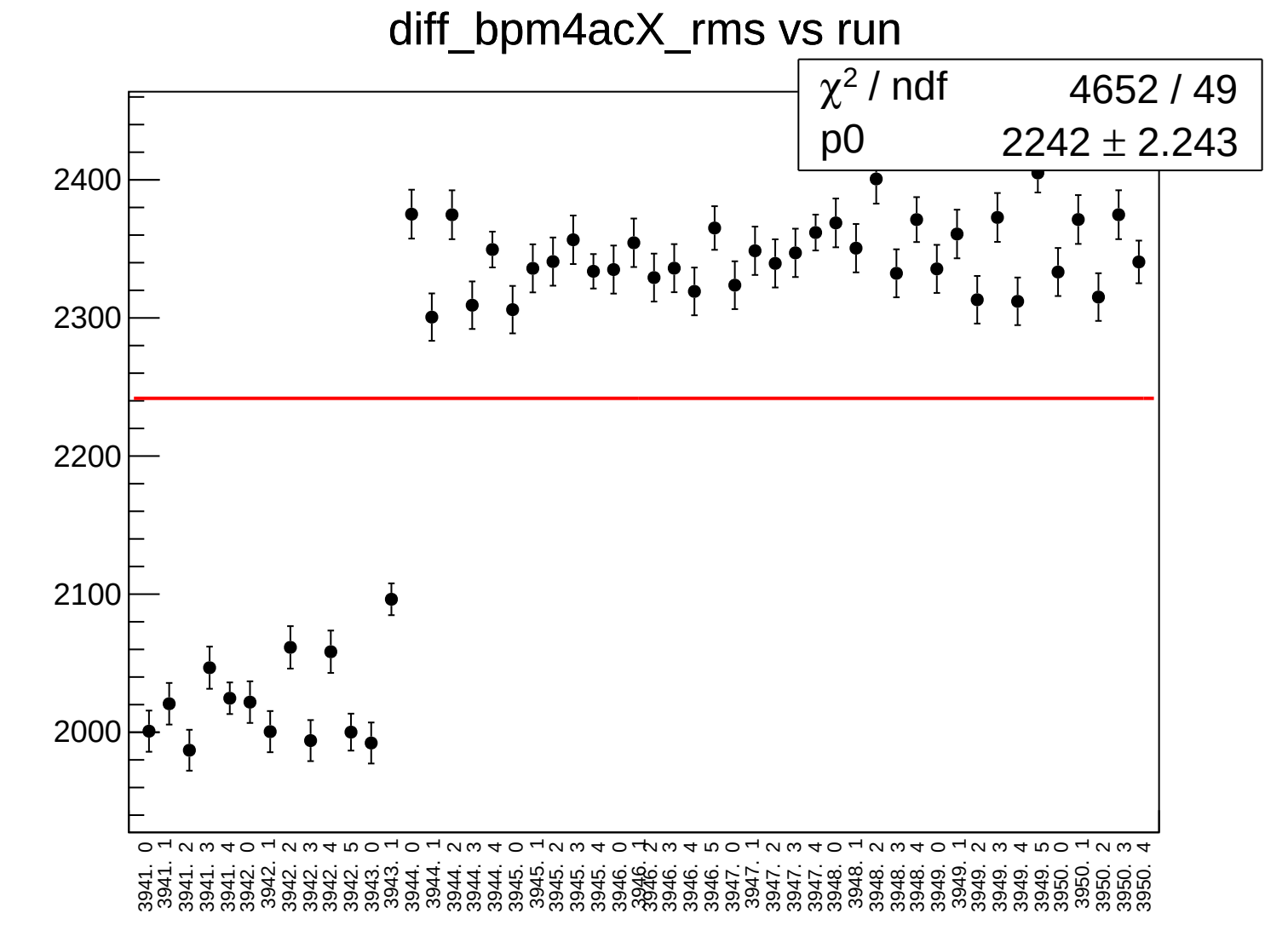

diff_bpm4eY_mean vs run
χ² / ndf 54.3 / 49
p0 9.755 ± 6.605
pull
Entries 50
Mean 9.75
Std Dev 5.376

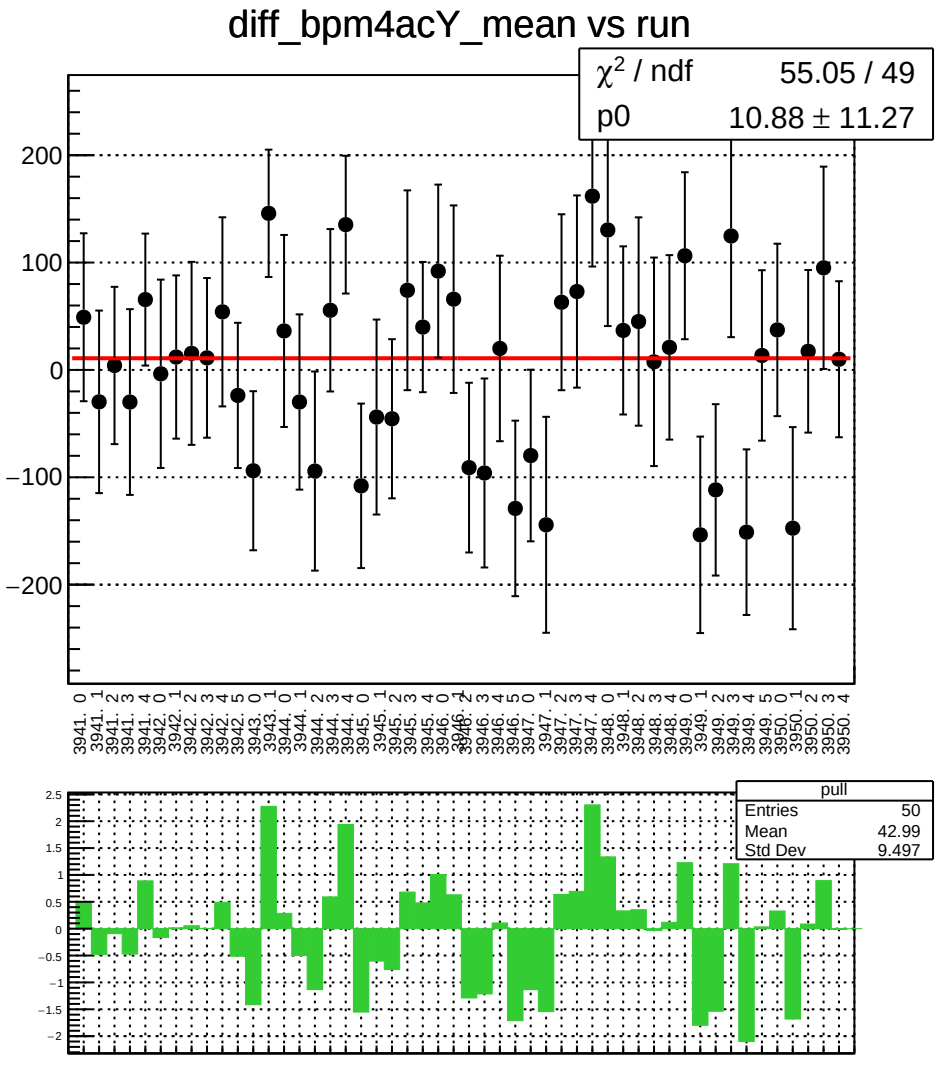

pull1D
Entries 50
Mean −0.04253
Std Dev 1.041

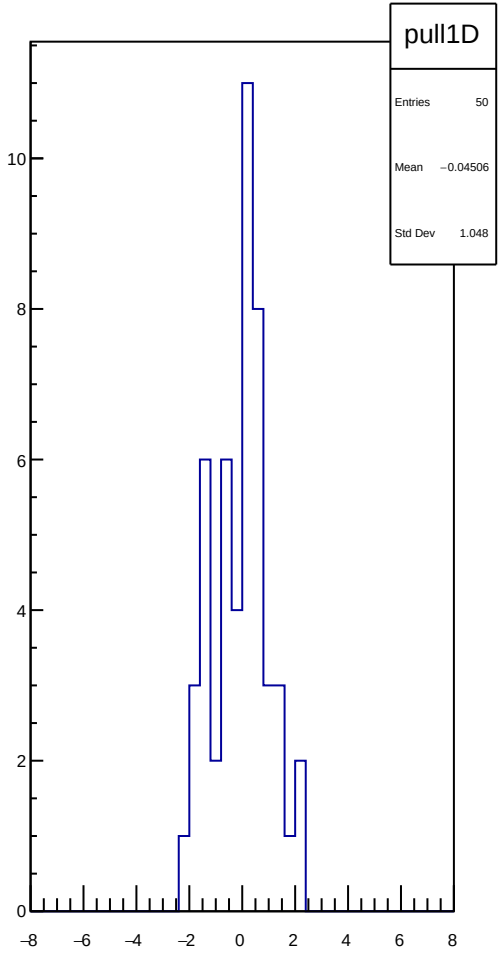

diff_bpm4eY_rms vs run
χ² / ndf 6826 / 49
p0 4663 ± 4.671
5600
5400
5200
5000
4800
4600
4400
4200
4000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

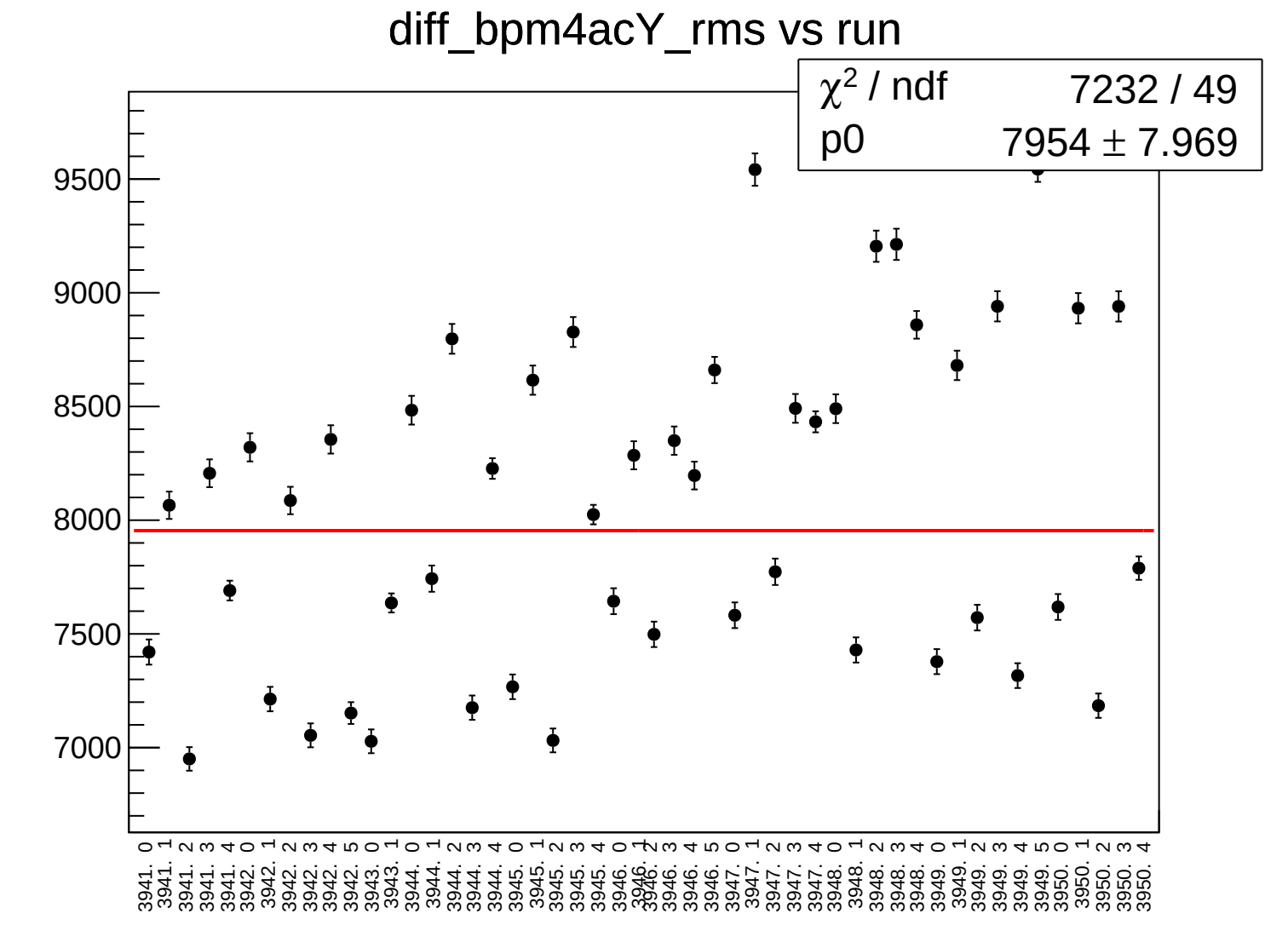

diff_bpm4acX_mean vs run
χ² / ndf 37.44 / 49
p0 4.971 ± 3.172
pull
Entries 50
Mean 867.5
Std Dev 843


pull1D
Entries 50
Mean 0.003889
Std Dev 0.8653


diff_bpm4acX_rms vs run
χ² / ndf 4652 / 49
p0 2242 ± 2.243
2400
2300
2200
2100
2000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


diff_bpm4acY_mean vs run
$\chi^2$ / ndf 55.05 / 49
p0 10.88 ± 11.27
200
100
0
−100
−200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 42.99
Std Dev 9.497
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.04506
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4acY_rms vs run
χ² / ndf 7232 / 49
p0 7954 ± 7.969
9500
9000
8500
8000
7500
7000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
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3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
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3946. 1
3946. 2
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3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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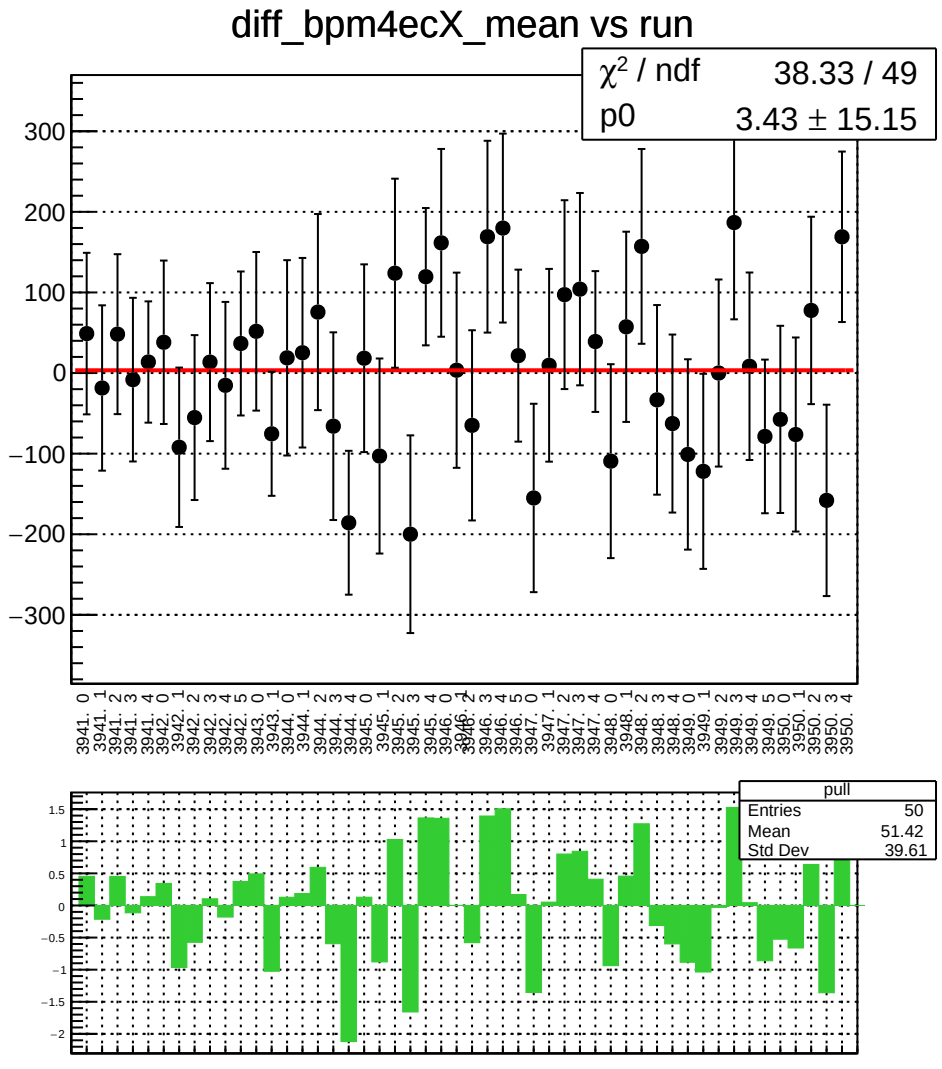
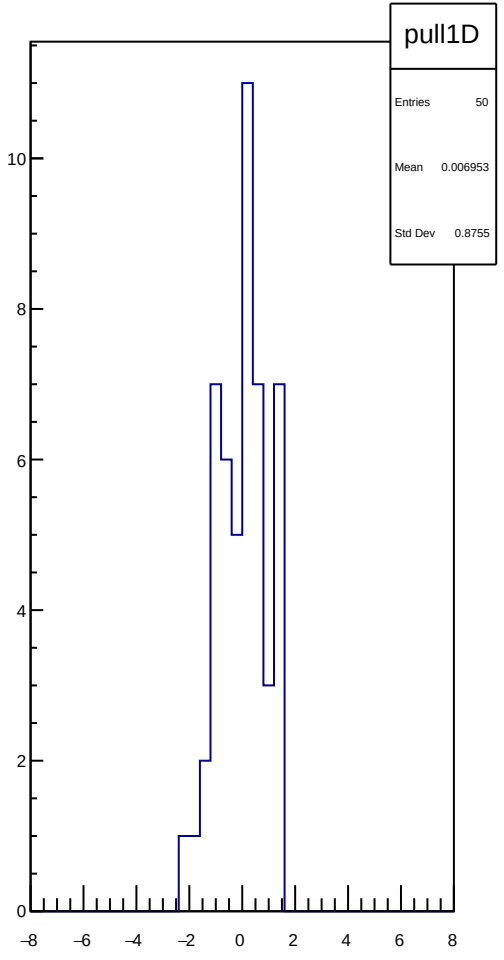
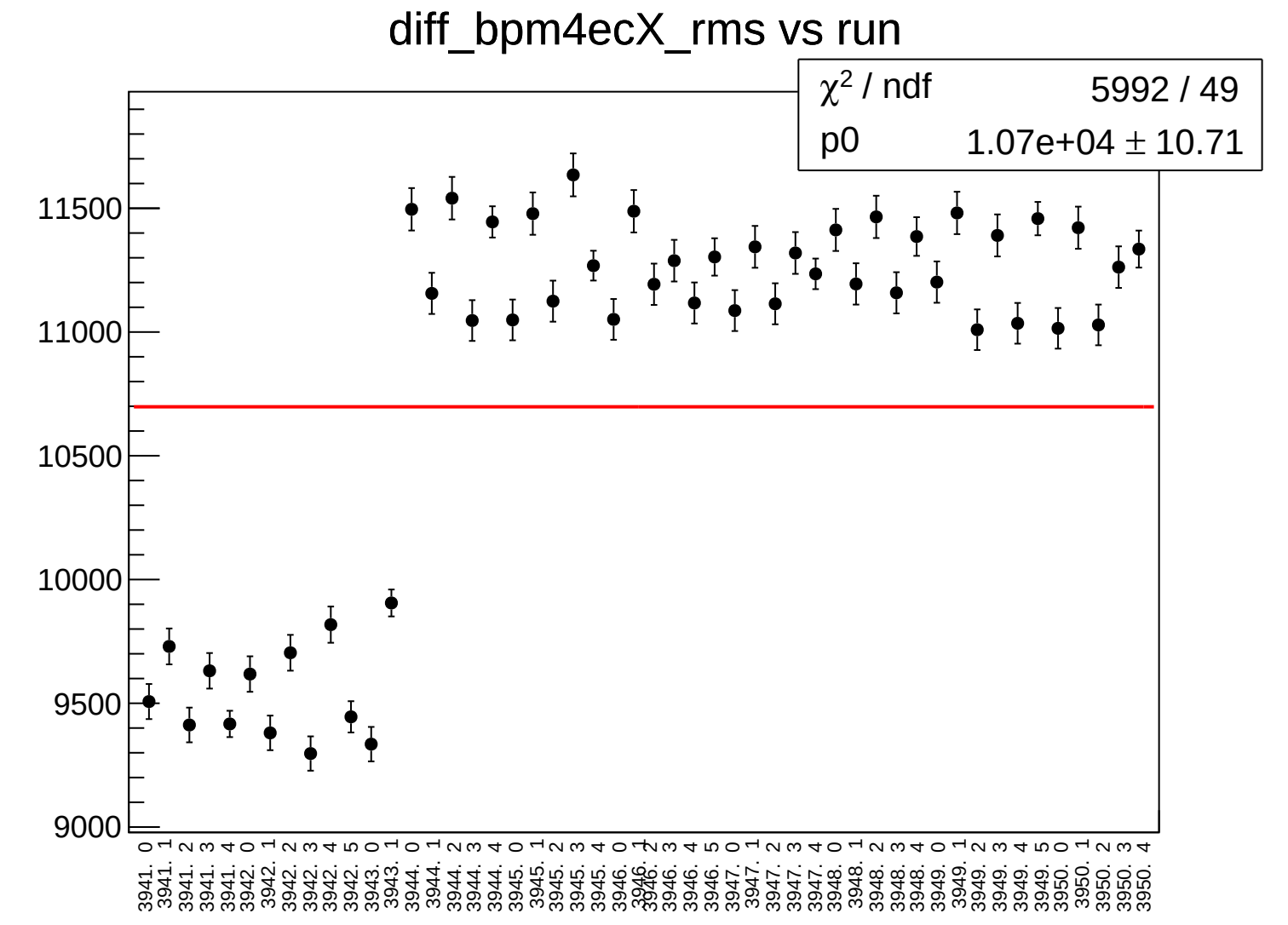
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


diff_bpm4ecX_mean vs run
χ² / ndf 38.33 / 49
p0 3.43 ± 15.15
pull
Entries 50
Mean 51.42
Std Dev 39.61


pull1D
Entries 50
Mean 0.006953
Std Dev 0.8755


diff_bpm4ecX_rms vs run
χ² / ndf 5992 / 49
p0 1.07e+04 ± 10.71
11500
11000
10500
10000
9500
9000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
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3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
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3947. 4
3948. 0
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3948. 2
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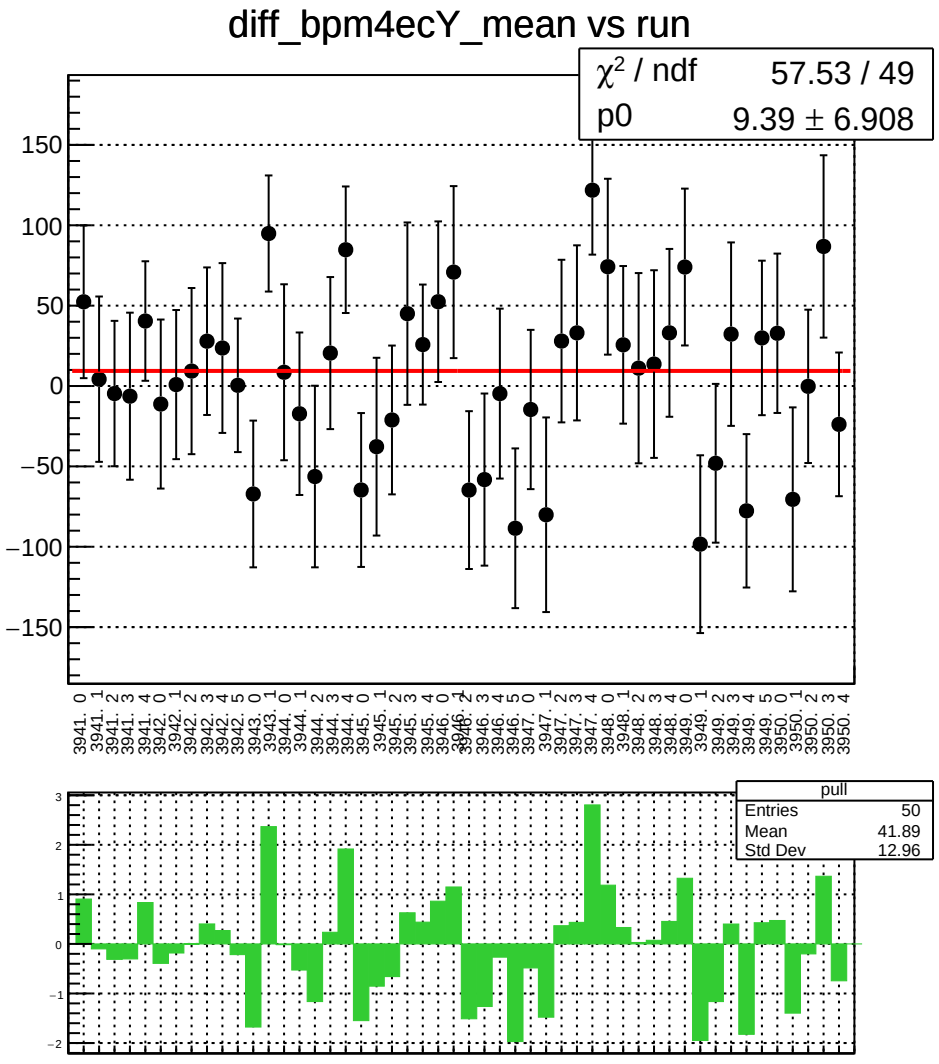
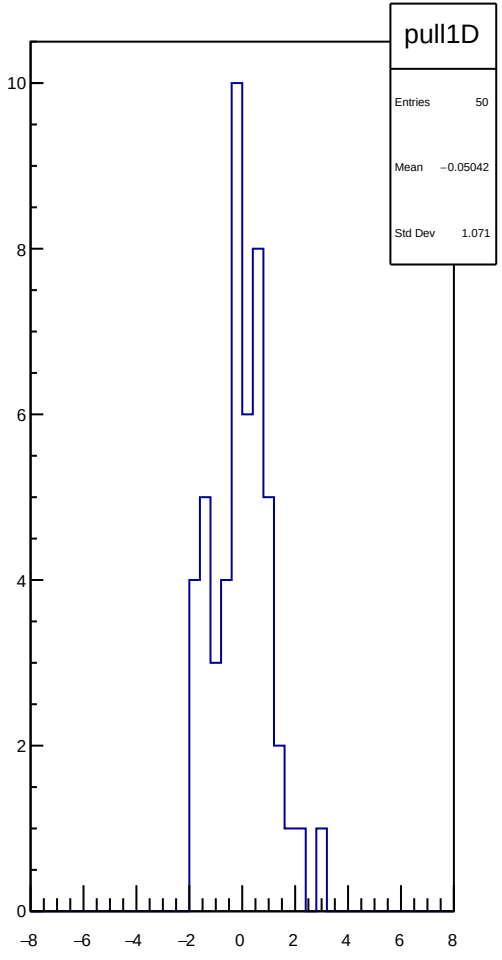
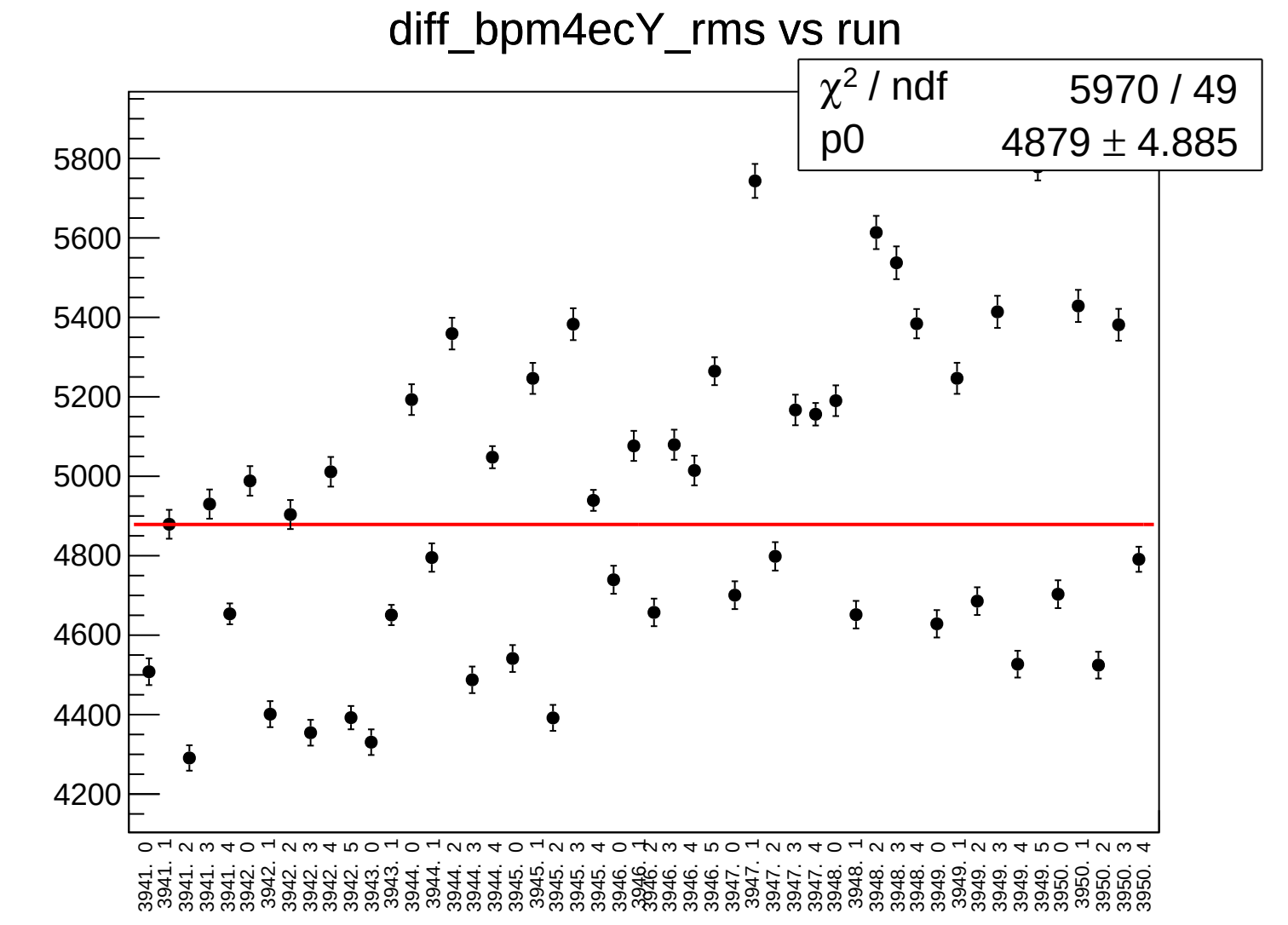
3950. 3
3950. 4


diff_bpm4ecY_mean vs run
χ² / ndf 57.53 / 49
p0 9.39 ± 6.908
pull
Entries 50
Mean 41.89
Std Dev 12.96


pull1D
Entries 50
Mean −0.05042
Std Dev 1.071


diff_bpm4ecY_rms vs run
χ² / ndf 5970 / 49
p0 4879 ± 4.885
5800
5600
5400
5200
5000
4800
4600
4400
4200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
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3944. 2
3944. 3
3944. 4
3945. 0
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3945. 3
3945. 4
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3946. 2
3946. 3
3946. 4
3946. 5
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3947. 2
3947. 3
3947. 4
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3948. 2
3948. 3
3948. 4
3949. 0
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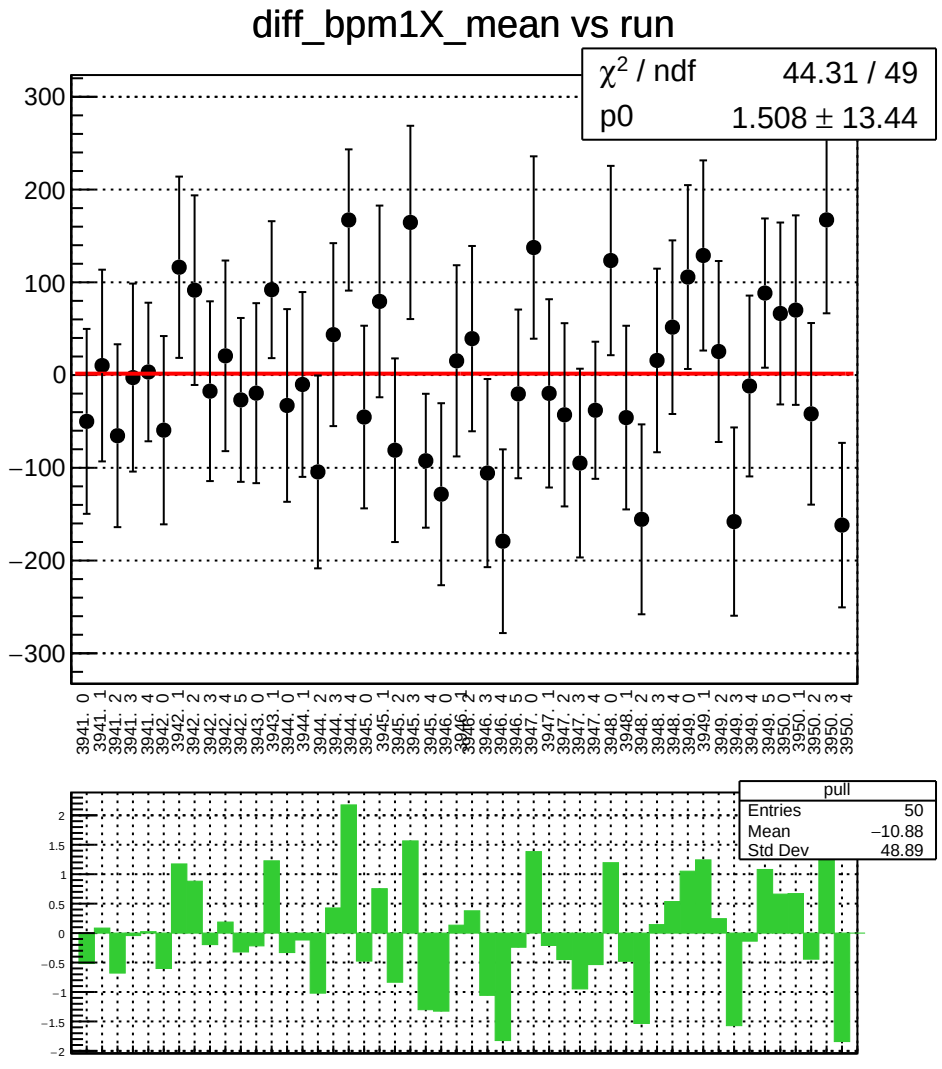
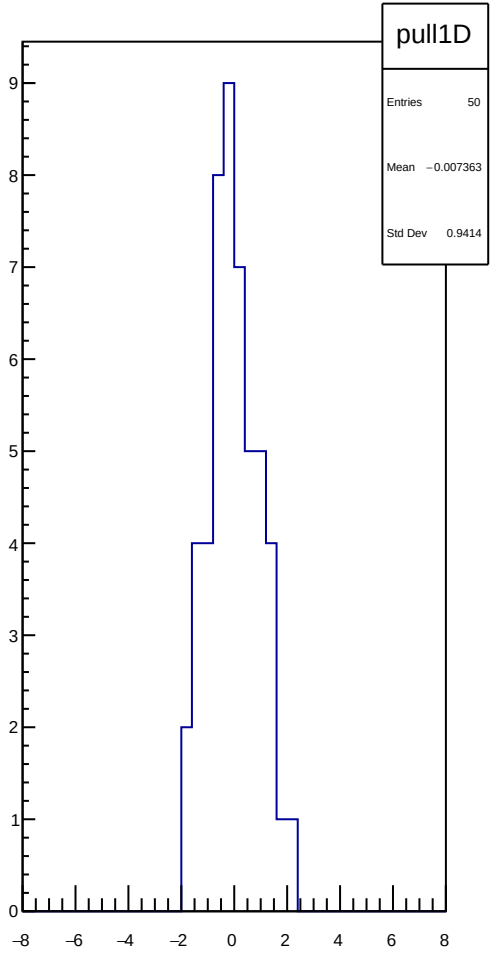
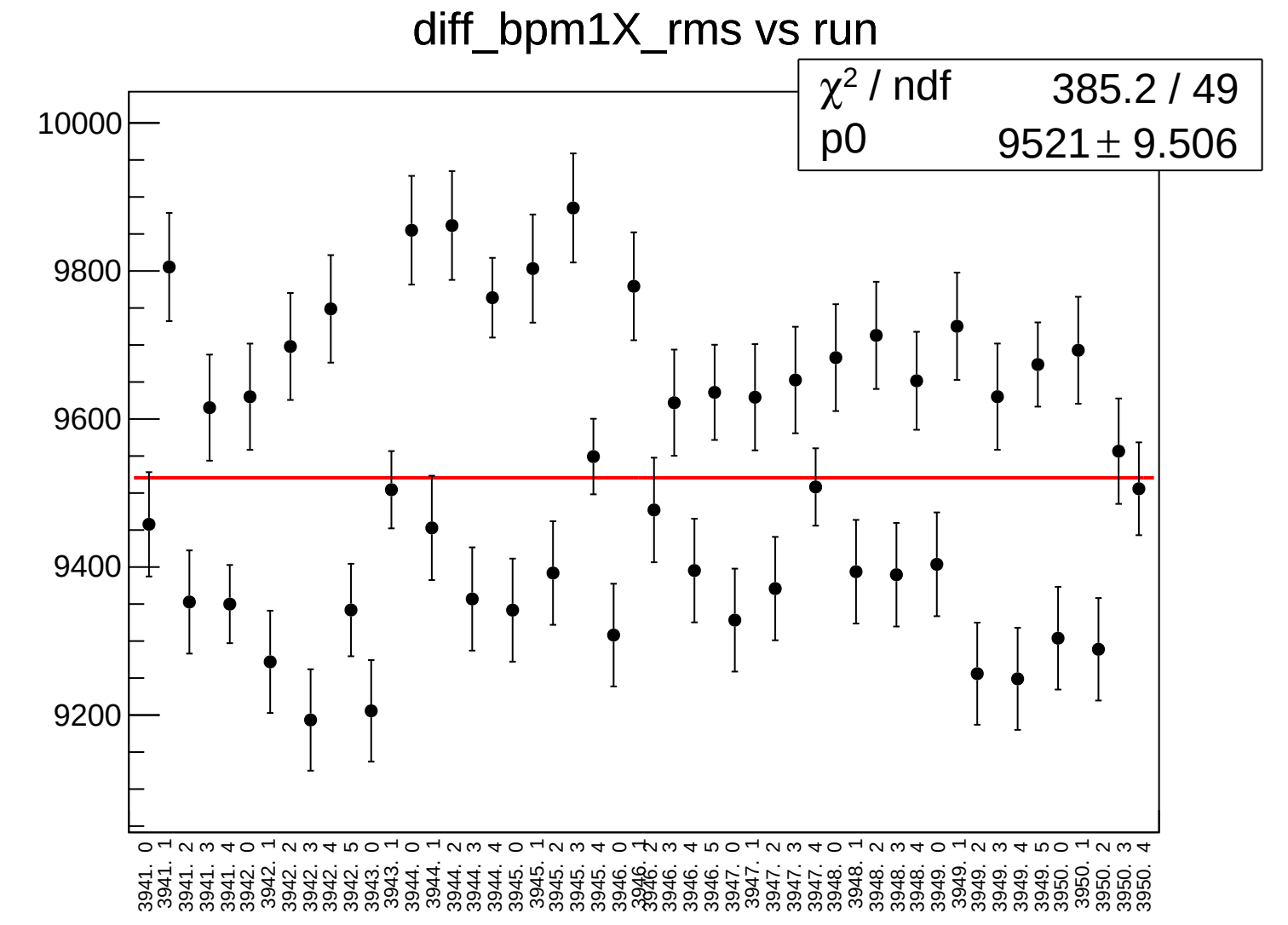
3950. 4


diff_bpm1X_mean vs run
χ² / ndf 44.31 / 49
p0 1.508 ± 13.44
pull
Entries 50
Mean −10.88
Std Dev 48.89


pull1D
Entries 50
Mean −0.007363
Std Dev 0.9414


diff_bpm1X_rms vs run
χ² / ndf 385.2 / 49
p0 9521 ± 9.506
10000
9800
9600
9400
9200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
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3944. 2
3944. 3
3944. 4
3945. 0
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3945. 2
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3946. 0
3946. 1
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3946. 3
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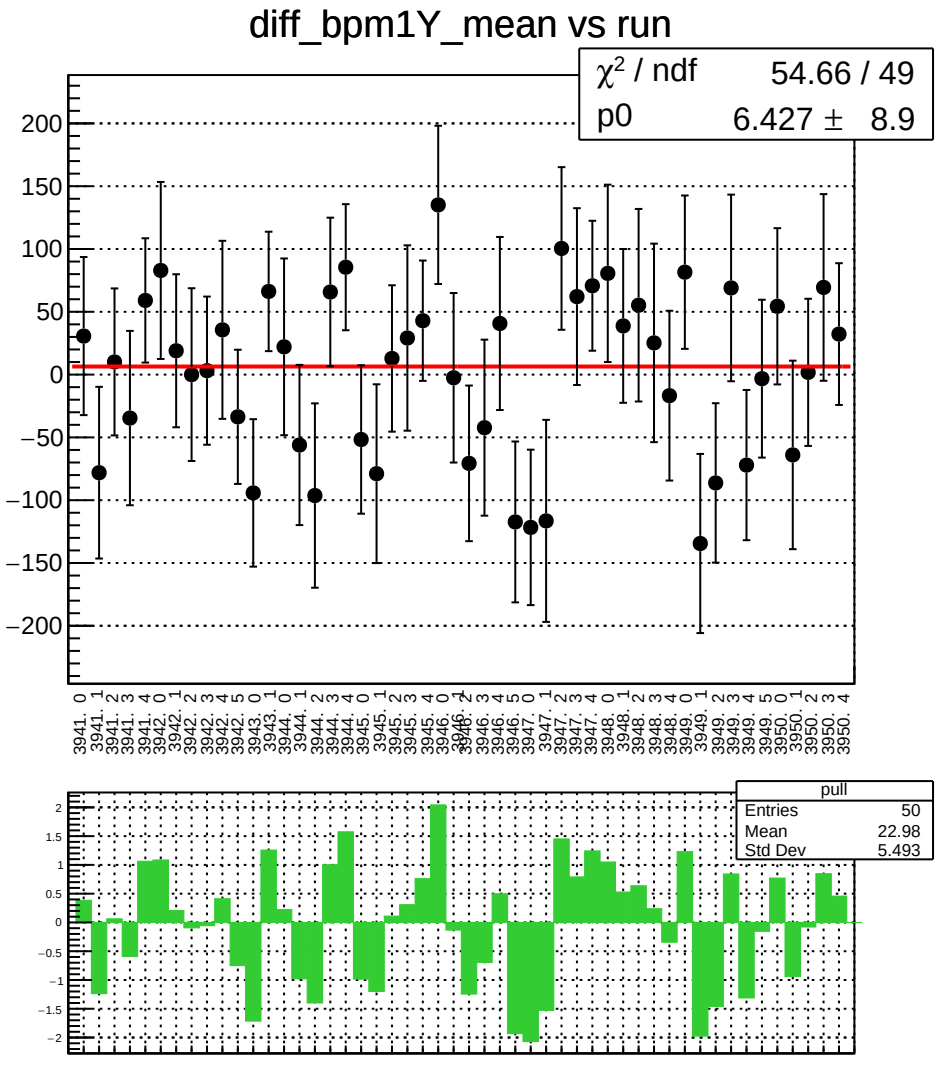
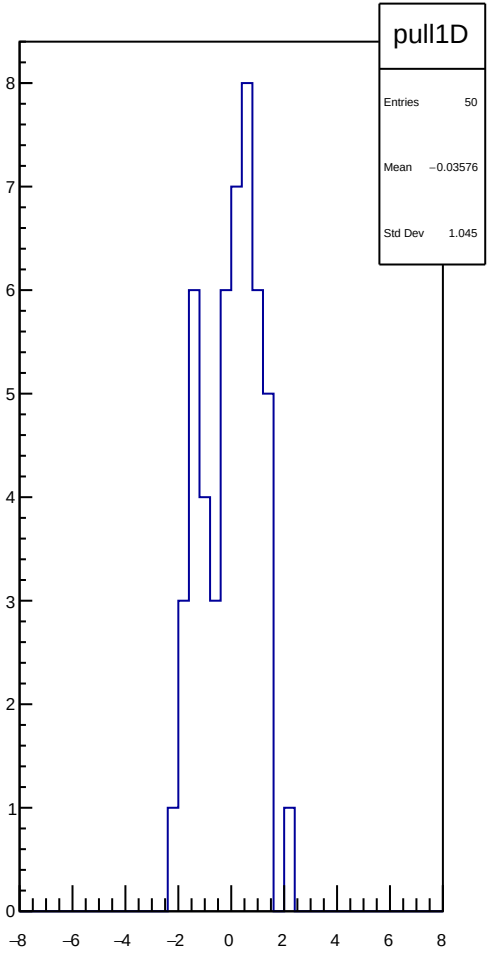
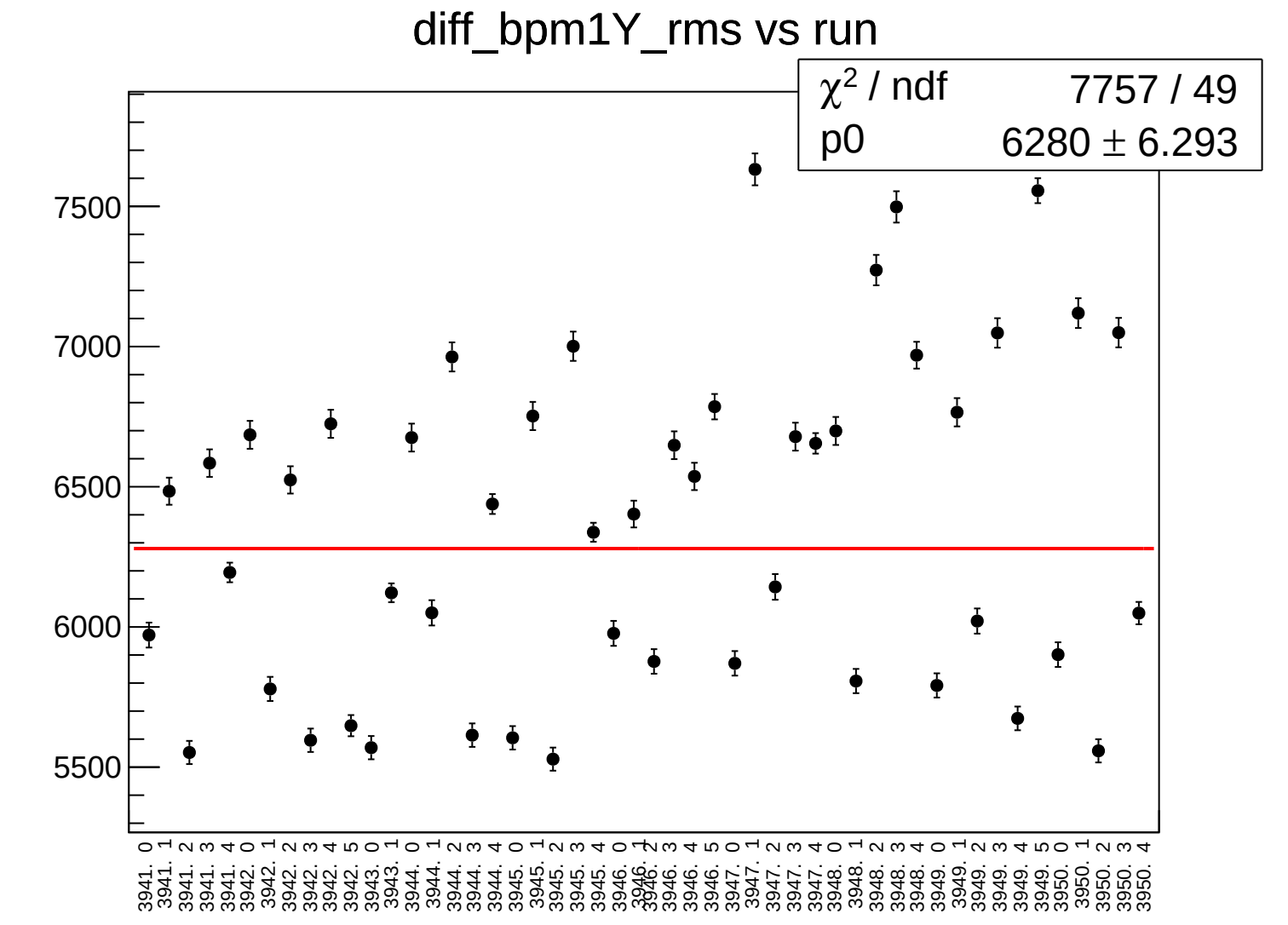
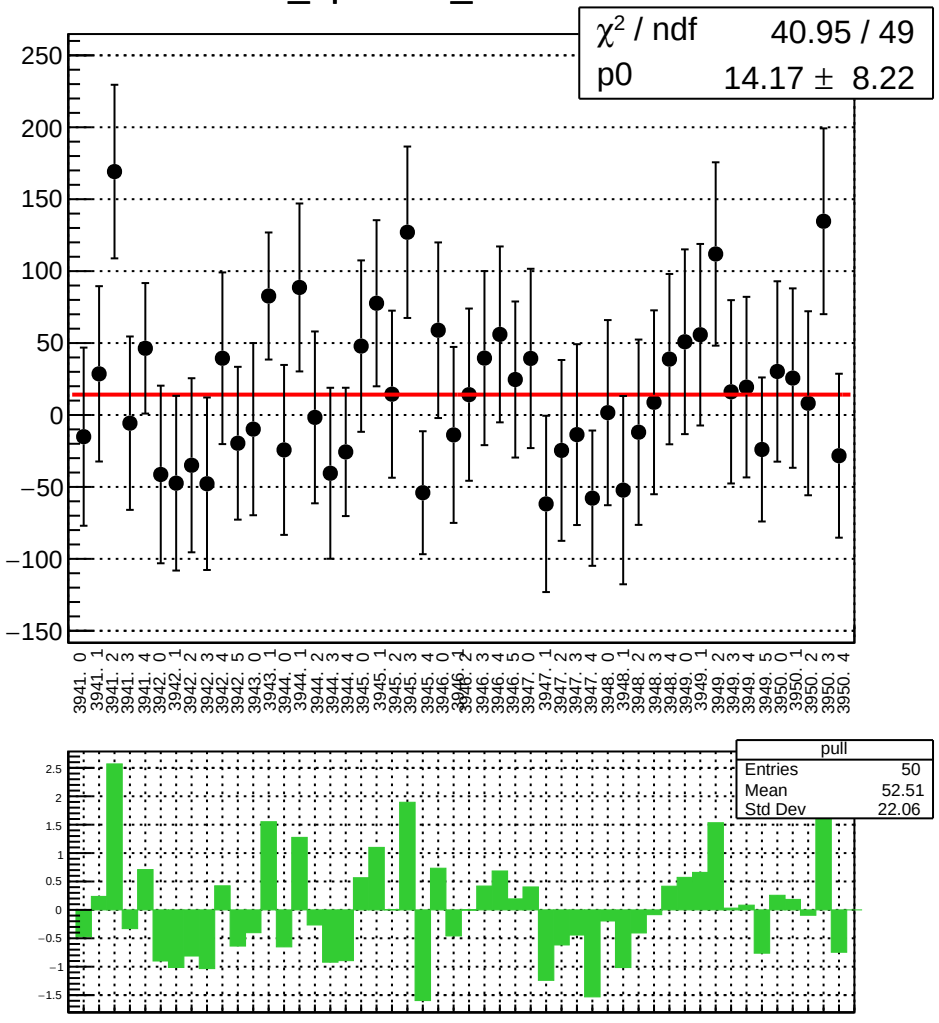
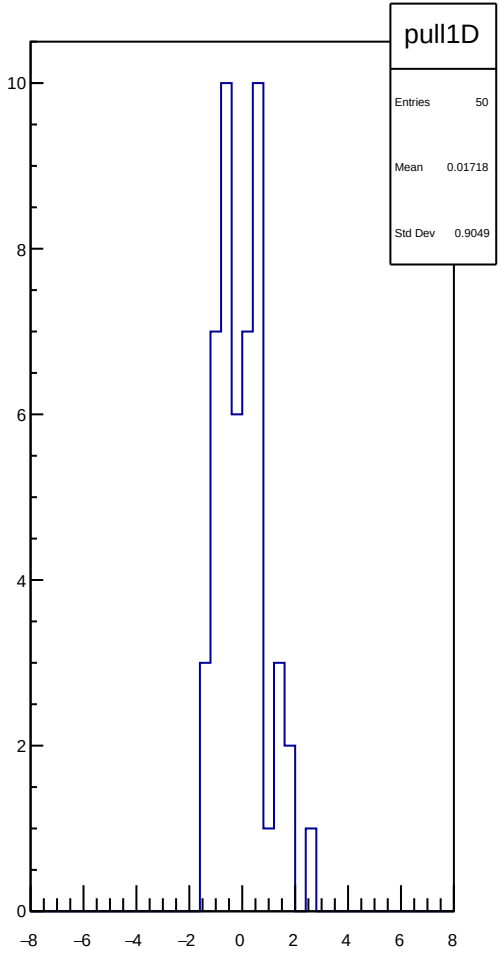
3950. 2
3950. 3
3950. 4

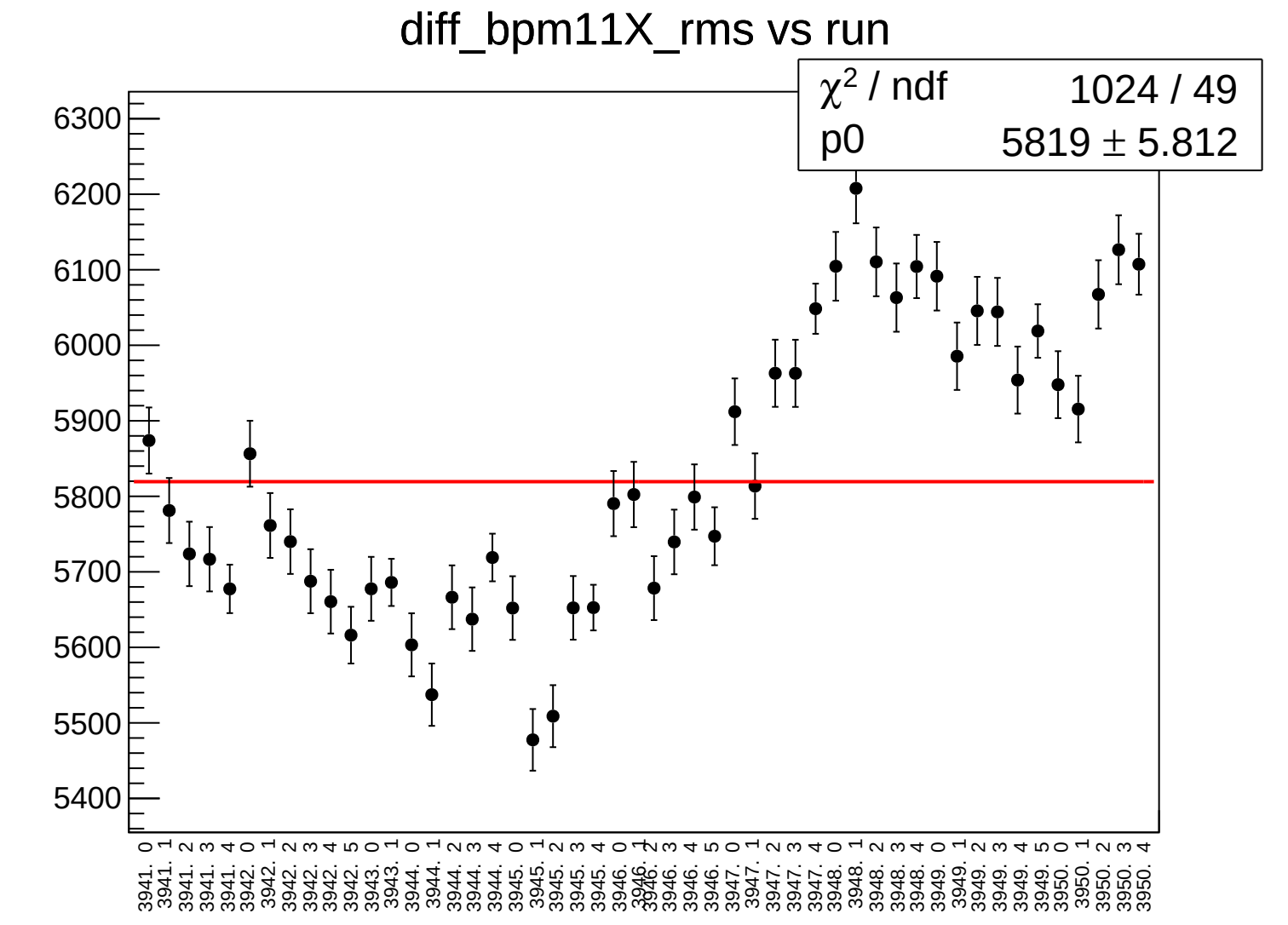

diff_bpm1Y_mean vs run
χ² / ndf 54.66 / 49
p0 6.427 ± 8.9
pull
Entries 50
Mean 22.98
Std Dev 5.493

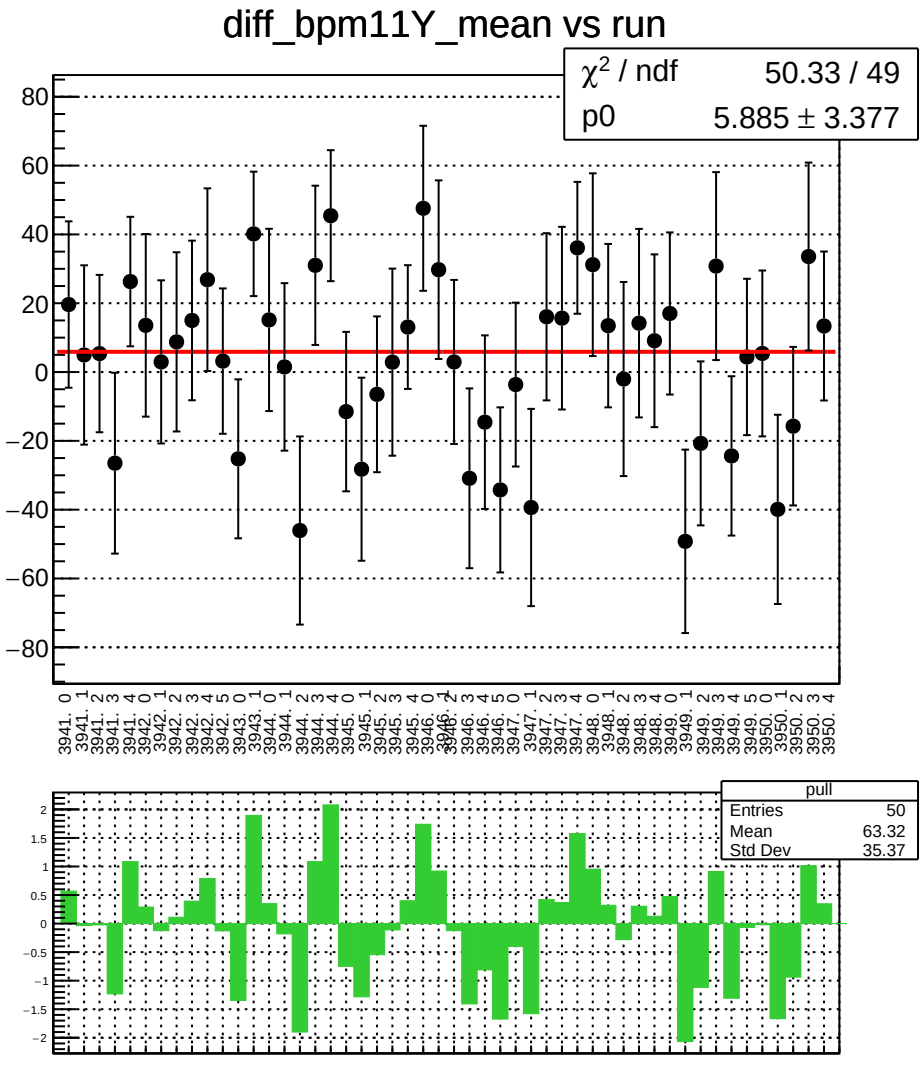

pull1D
Entries 50
Mean −0.03576
Std Dev 1.045

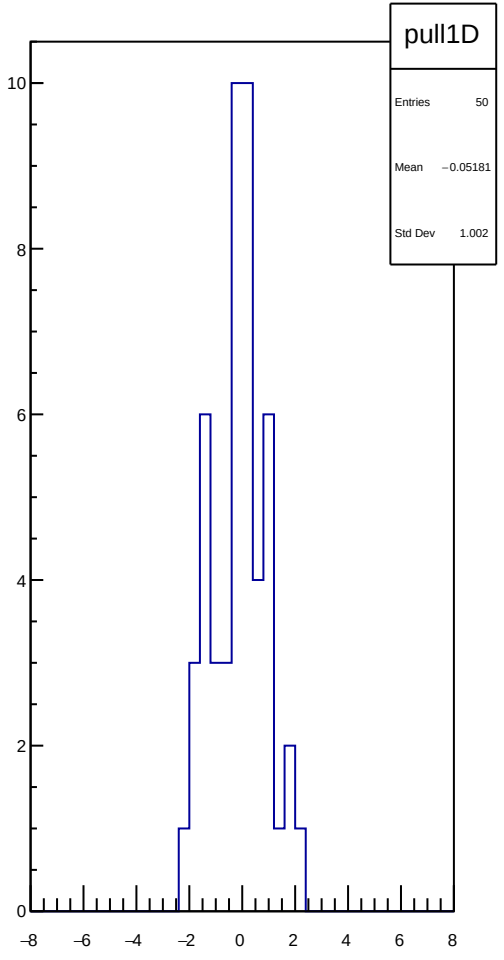

diff_bpm1Y_rms vs run
χ² / ndf 7757 / 49
p0 6280 ± 6.293
7500
7000
6500
6000
5500
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

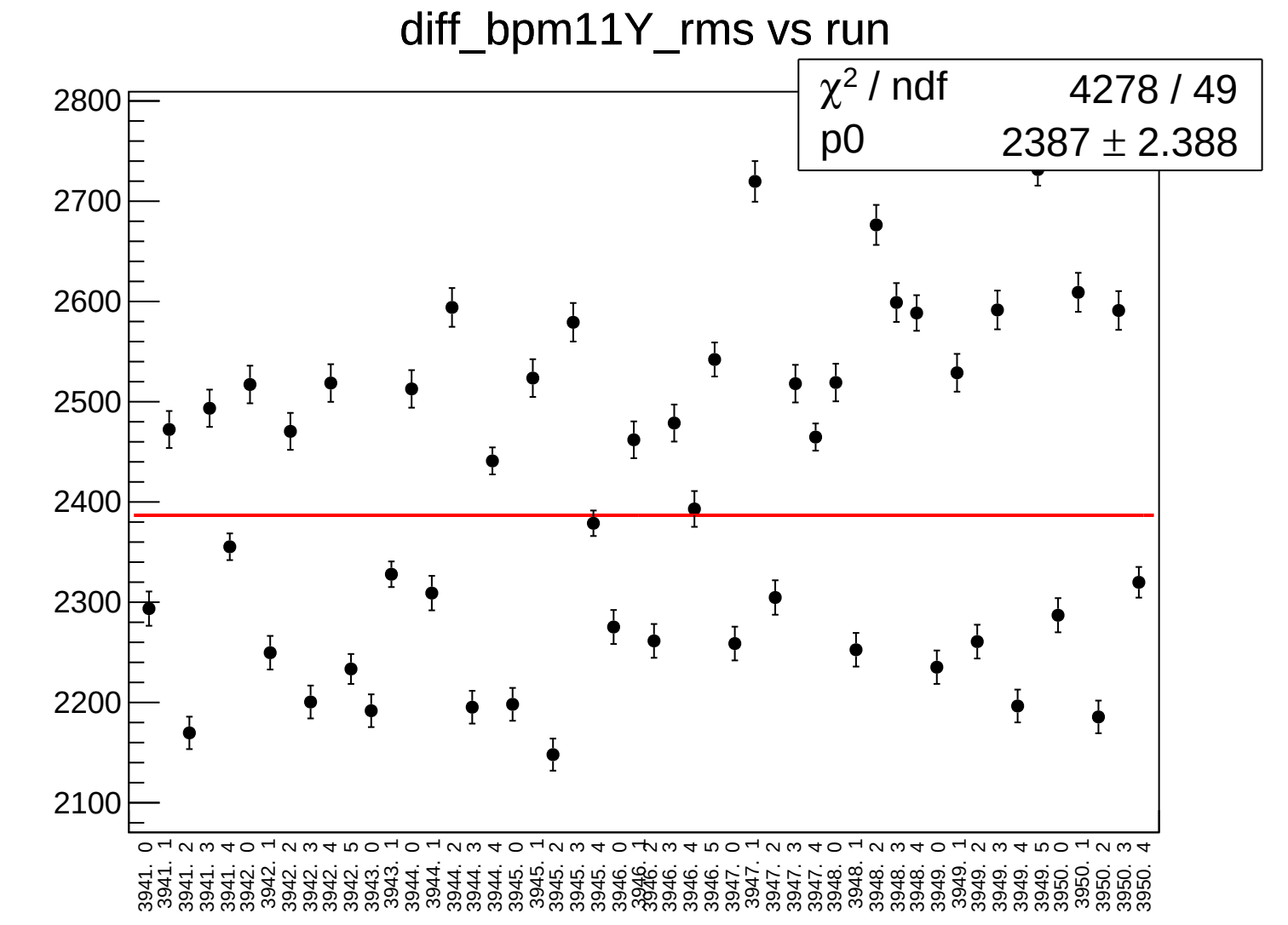

diff_bpm11X_mean vs run
χ² / ndf 40.95 / 49
p0 14.17 ± 8.22
pull
Entries 50
Mean 52.51
Std Dev 22.06

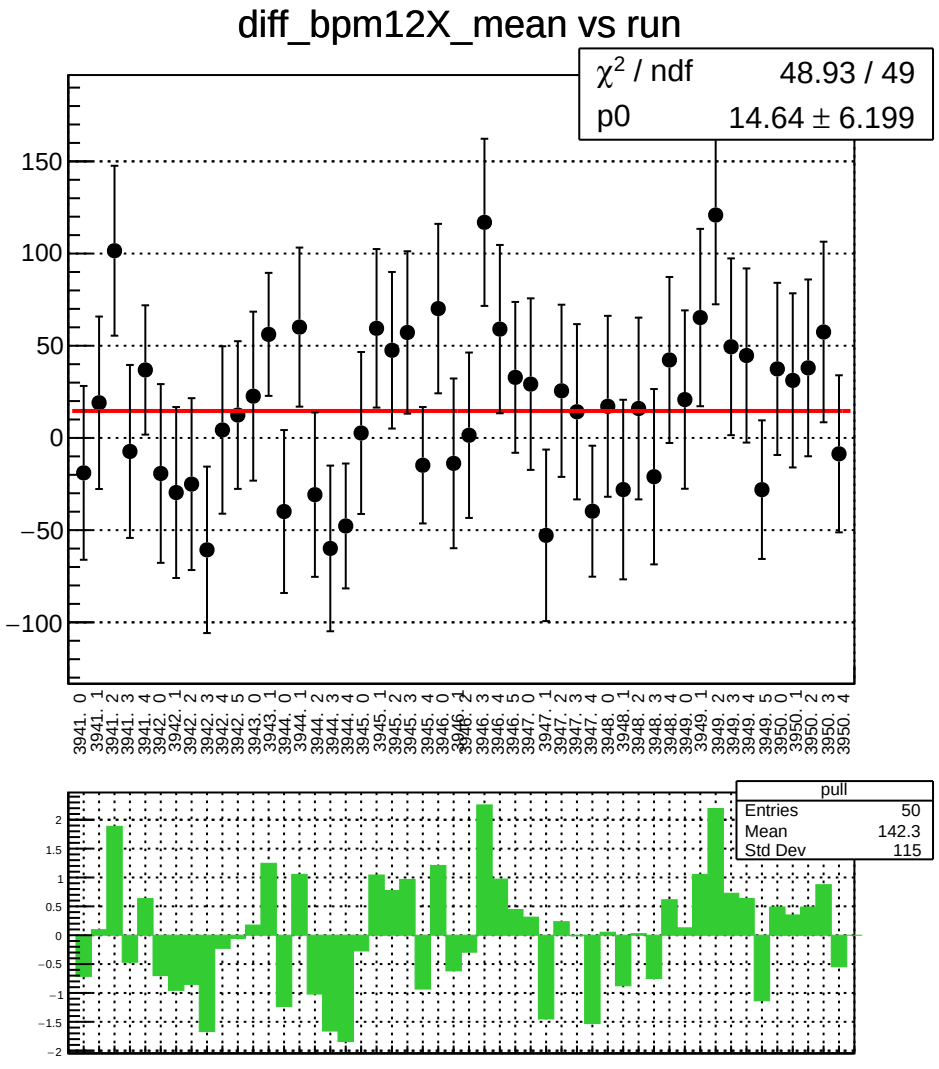

pull1D
Entries 50
Mean 0.01718
Std Dev 0.9049

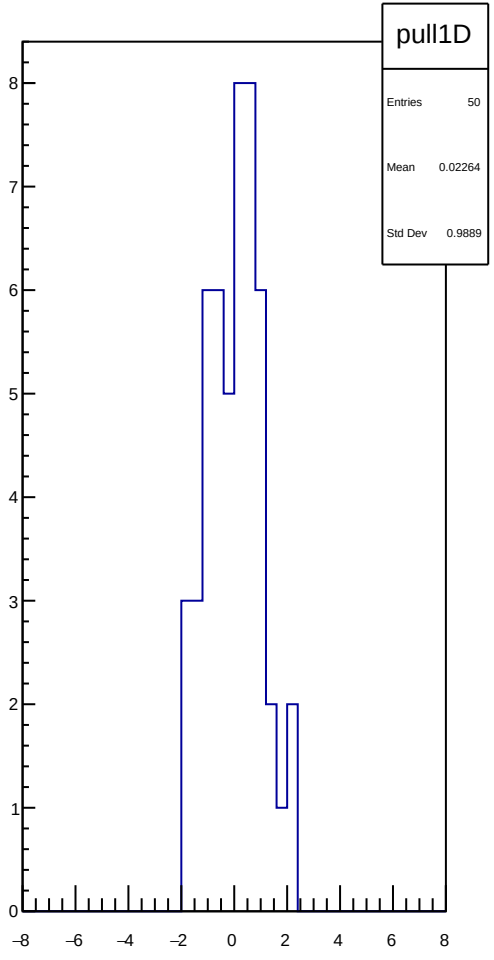

diff_bpm11X_rms vs run
χ² / ndf 1024 / 49
p0 5819 ± 5.812
6300
6200
6100
6000
5900
5800
5700
5600
5500
5400
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

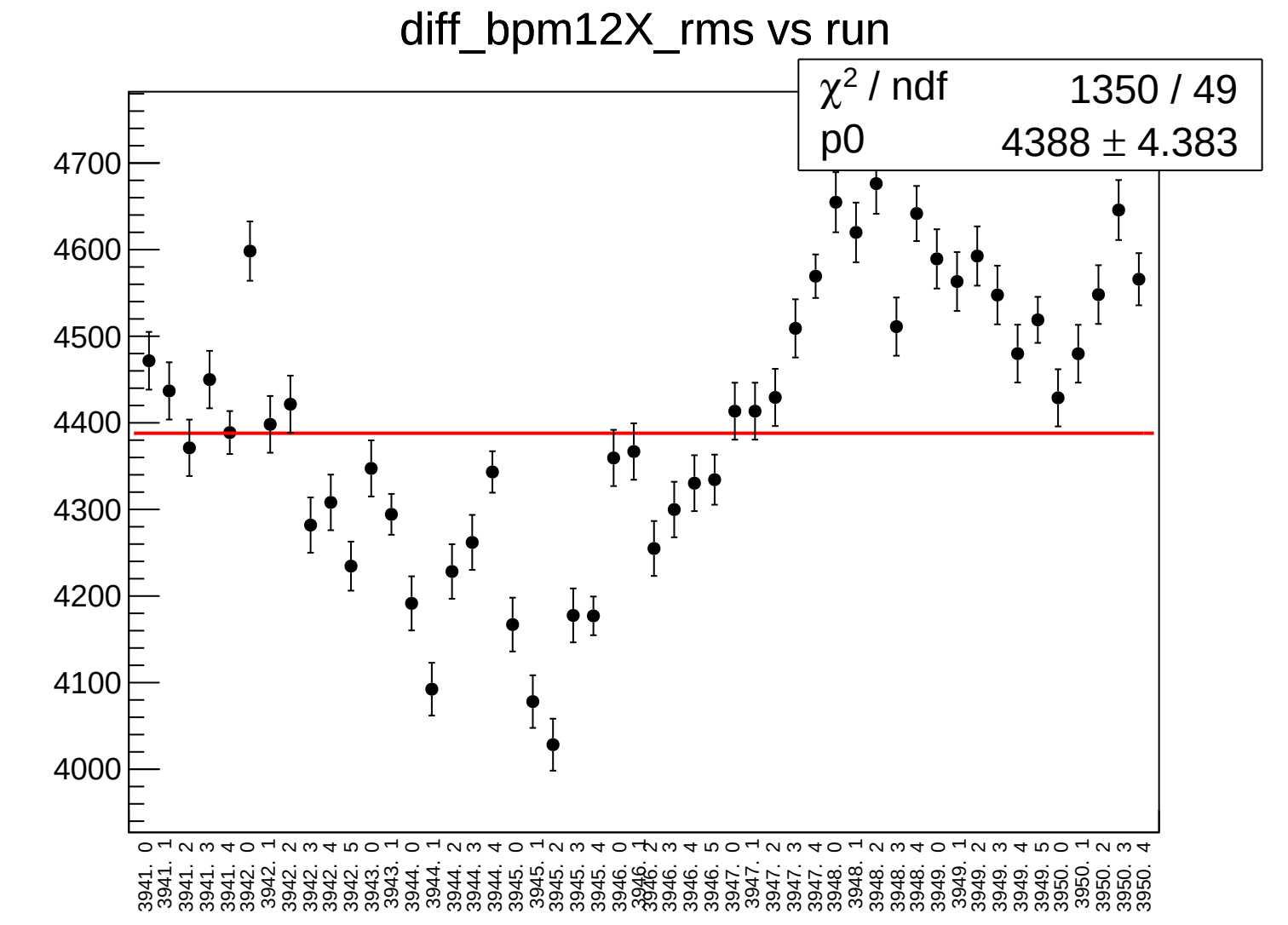

diff_bpm11Y_mean vs run
χ² / ndf 50.33 / 49
p0 5.885 ± 3.377
pull
Entries 50
Mean 63.32
Std Dev 35.37

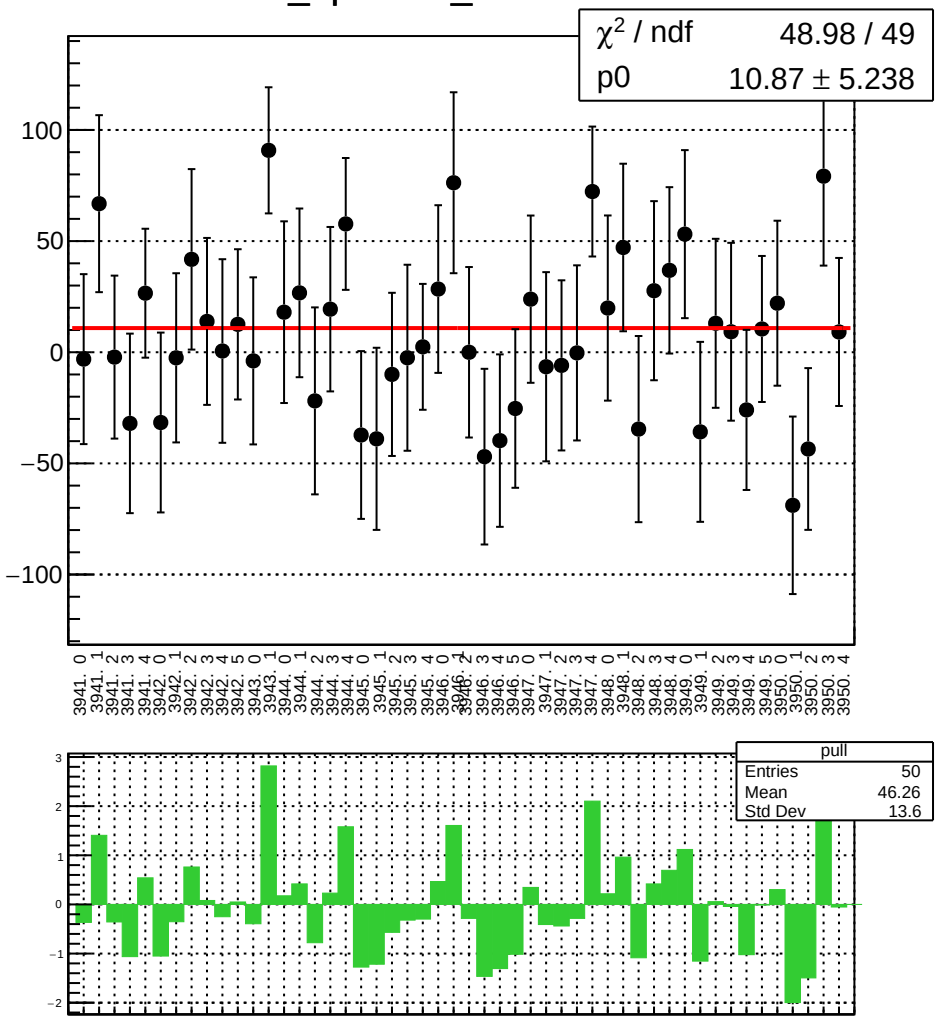

pull1D
Entries 50
Mean −0.05181
Std Dev 1.002

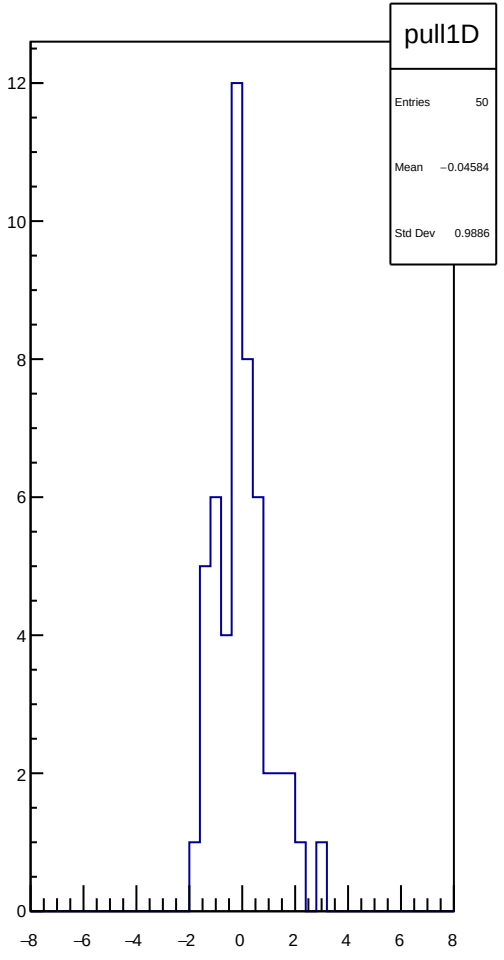

diff_bpm11Y_rms vs run
χ² / ndf 4278 / 49
p0 2387 ± 2.388
2800
2700
2600
2500
2400
2300
2200
2100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

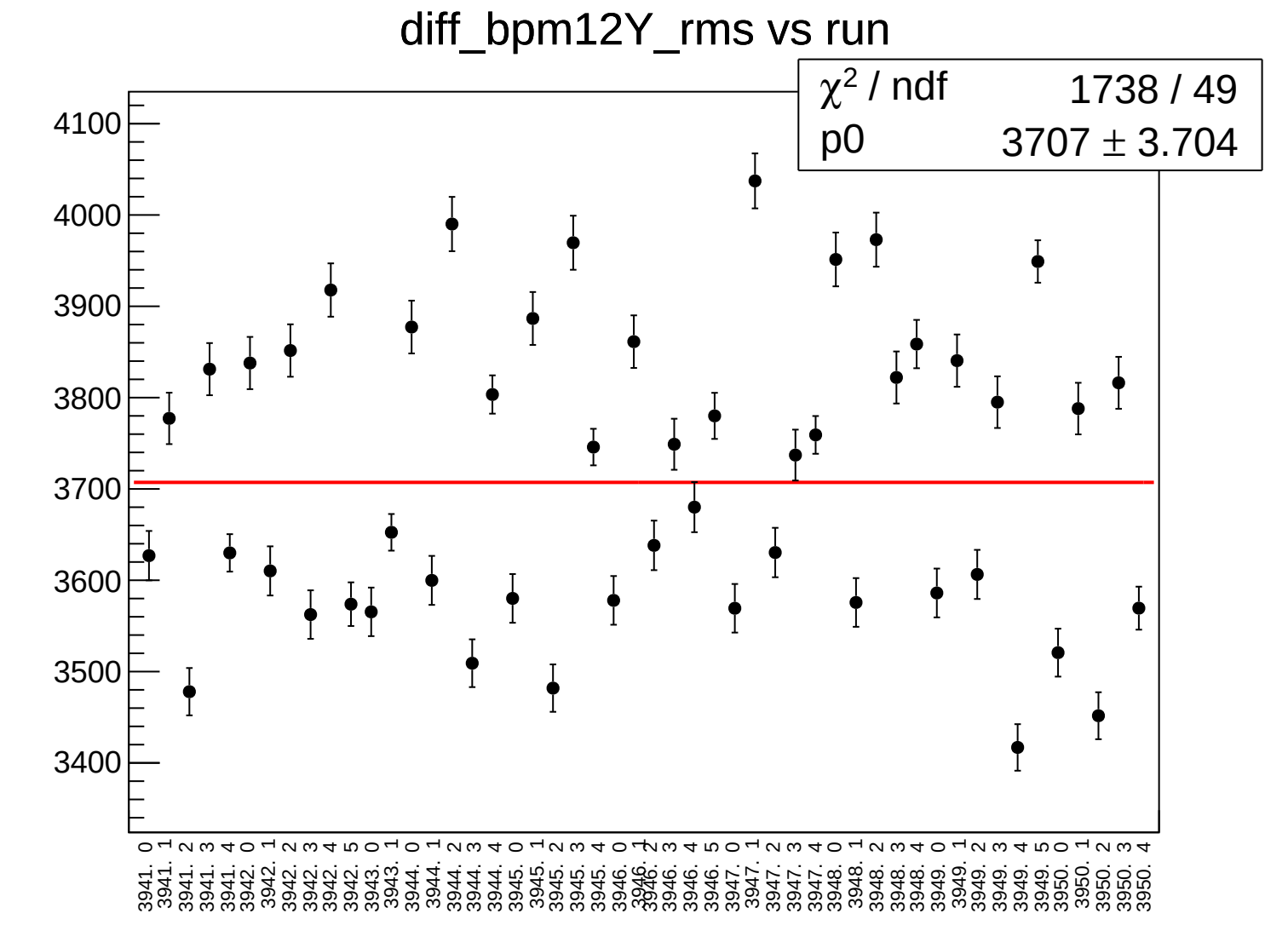

diff_bpm12X_mean vs run
$\chi^2$ / ndf 48.93 / 49
p0 14.64 ± 6.199
150
100
50
0
−50
−100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 142.3
Std Dev 115
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.02264
Std Dev 0.9889
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm12X_rms vs run
χ² / ndf 1350 / 49
p0 4388 ± 4.383
4700
4600
4500
4400
4300
4200
4100
4000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


diff_bpm12Y_mean vs run
χ² / ndf 48.98 / 49
p0 10.87 ± 5.238
pull
Entries 50
Mean 46.26
Std Dev 13.6


pull1D
Entries 50
Mean −0.04584
Std Dev 0.9886


diff_bpm12Y_rms vs run
χ² / ndf 1738 / 49
p0 3707 ± 3.704
4100
4000
3900
3800
3700
3600
3500
3400
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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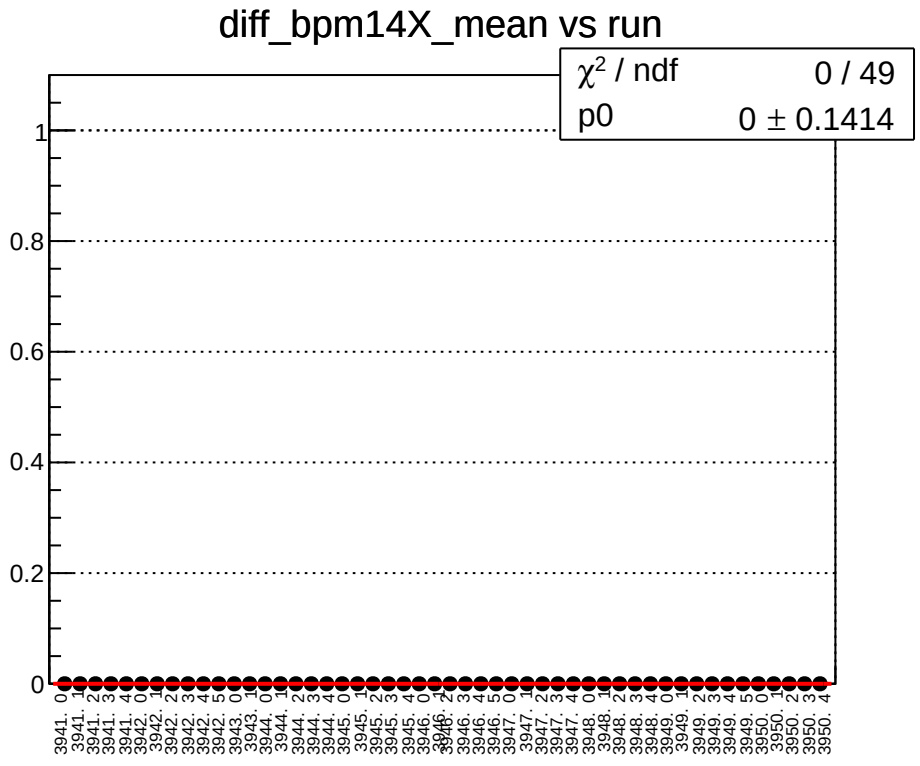
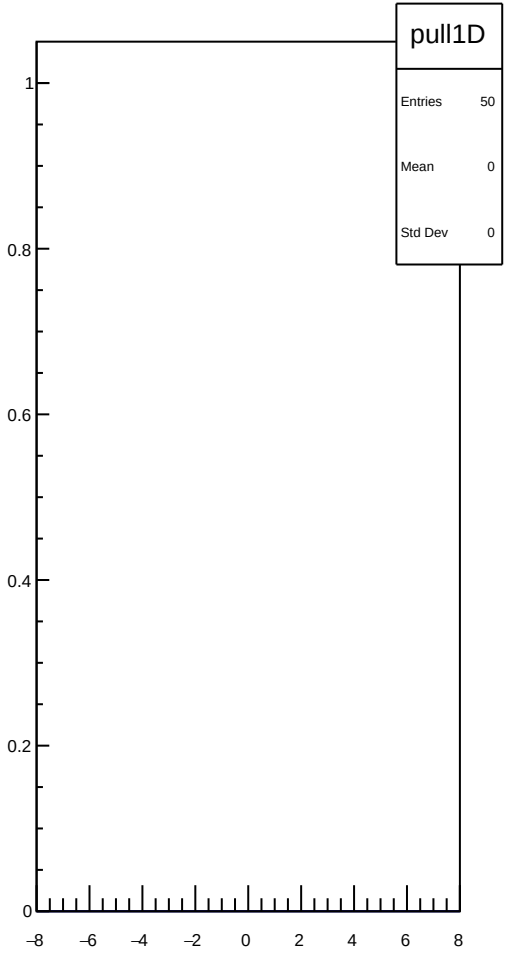
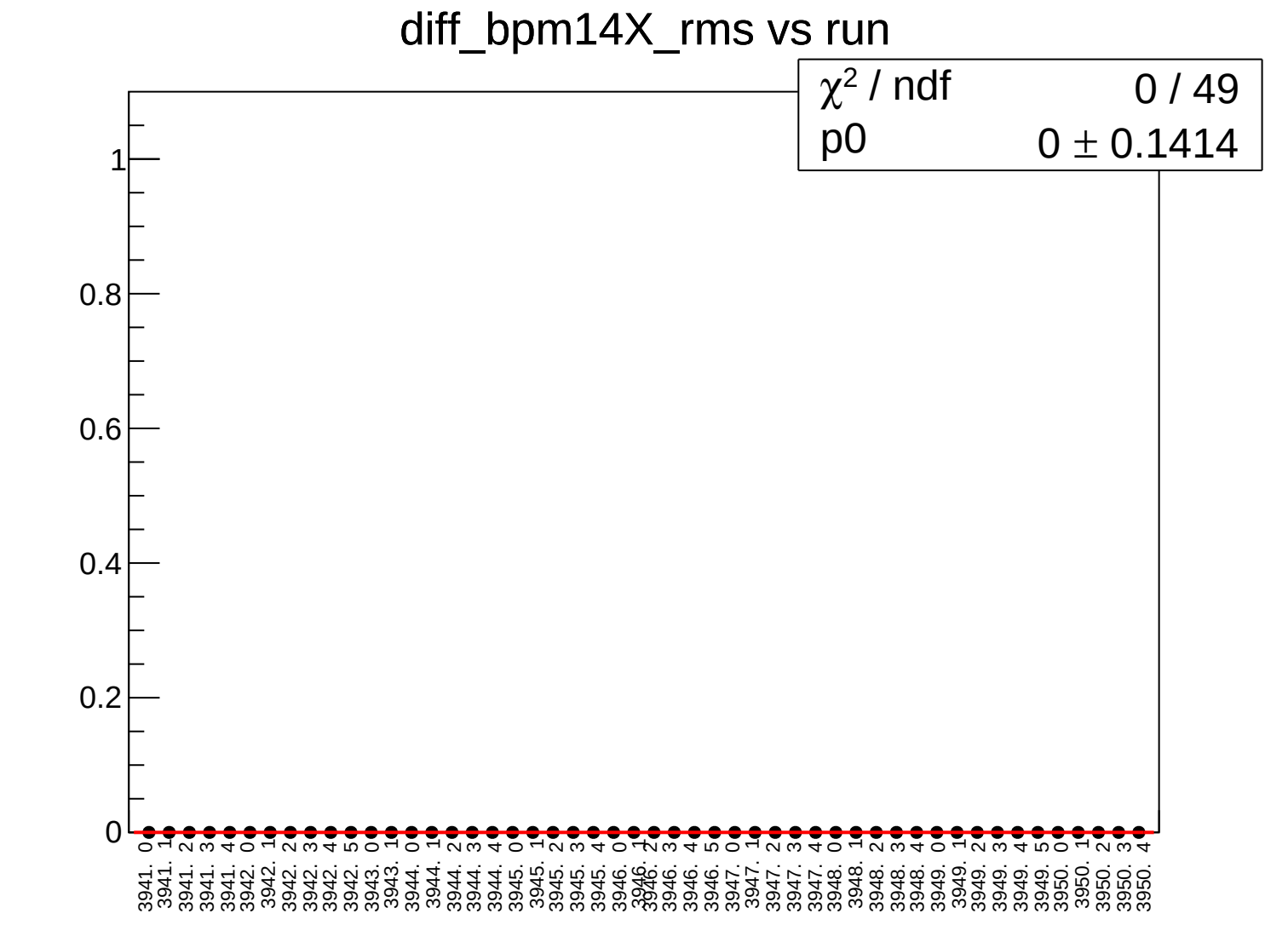
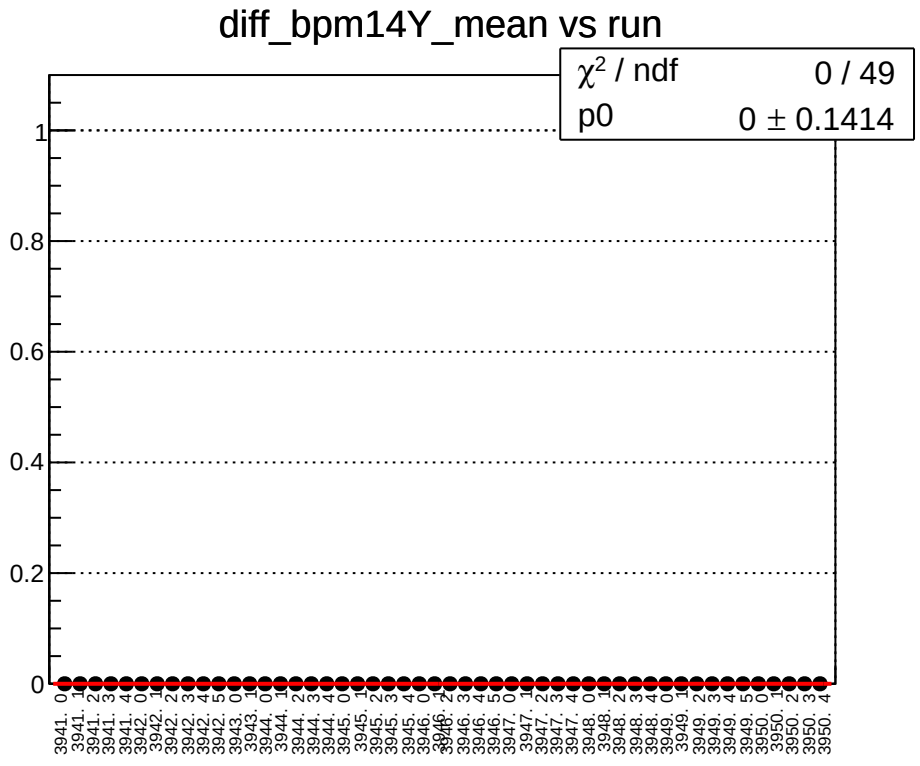
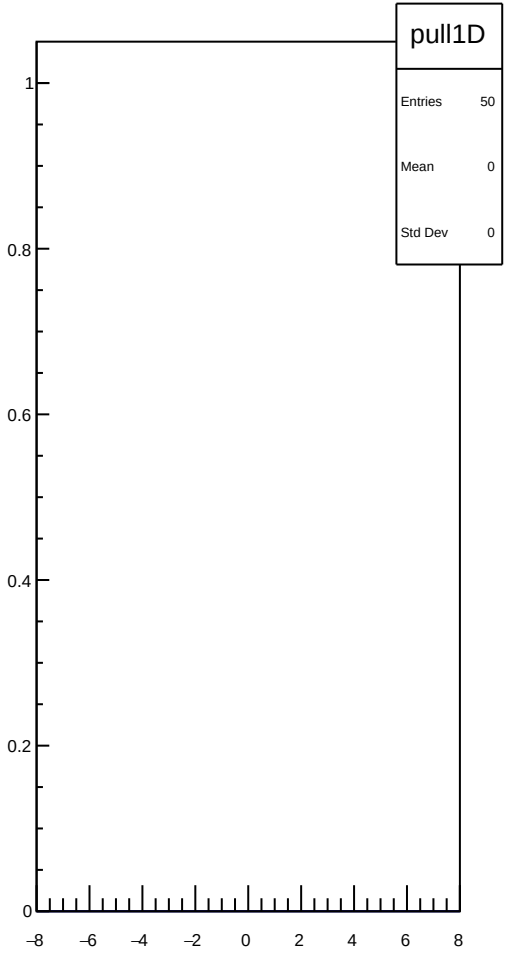
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

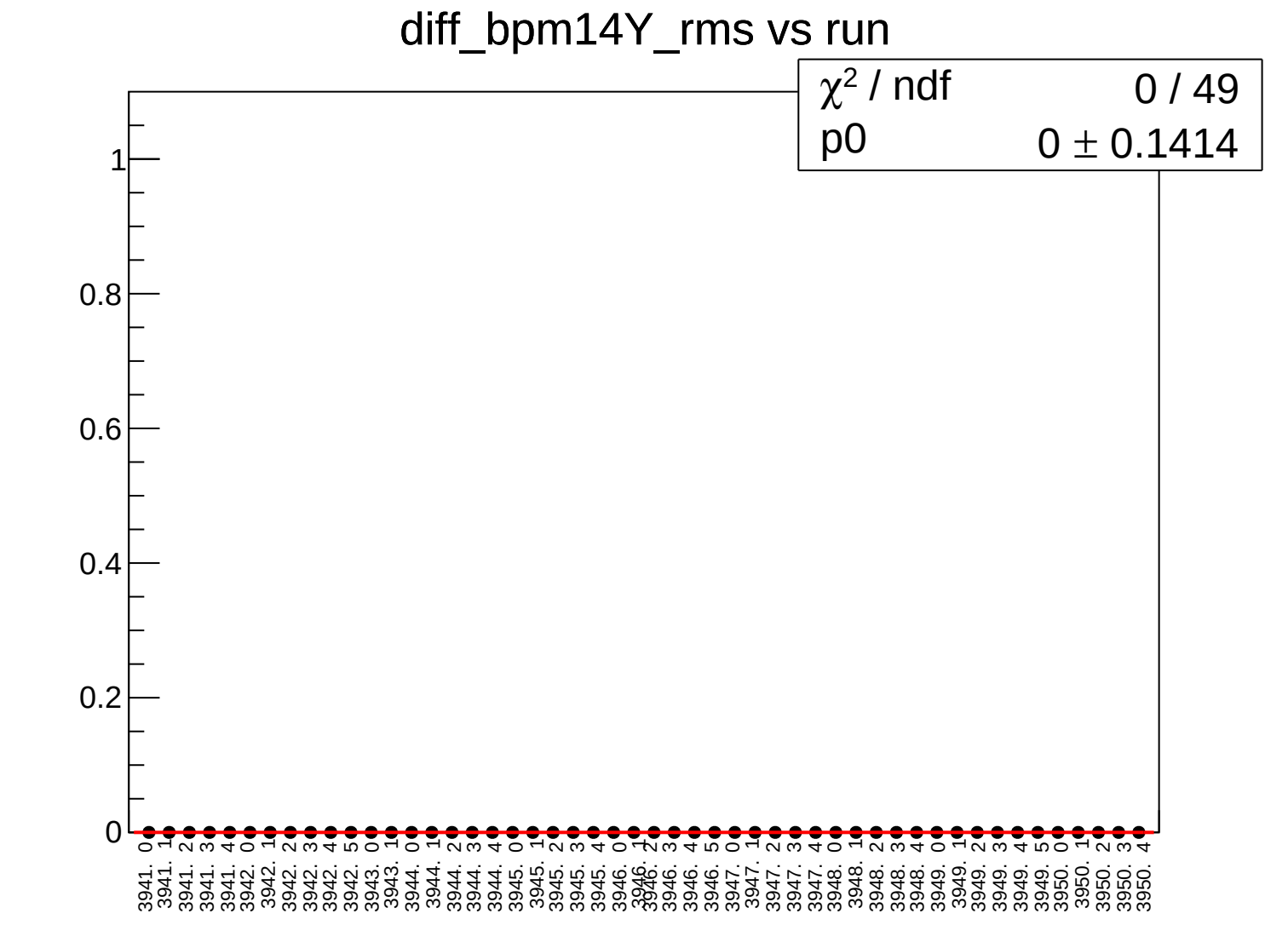

diff_bpm14X_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

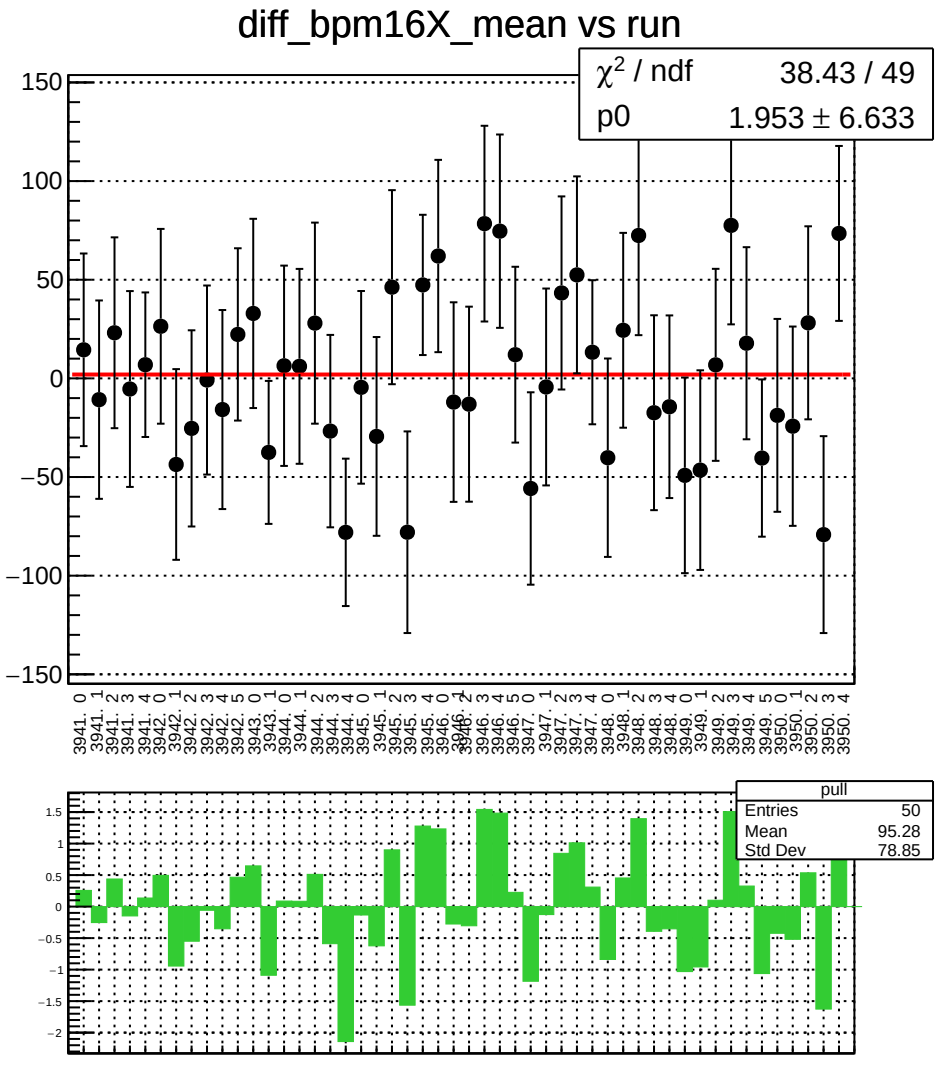

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

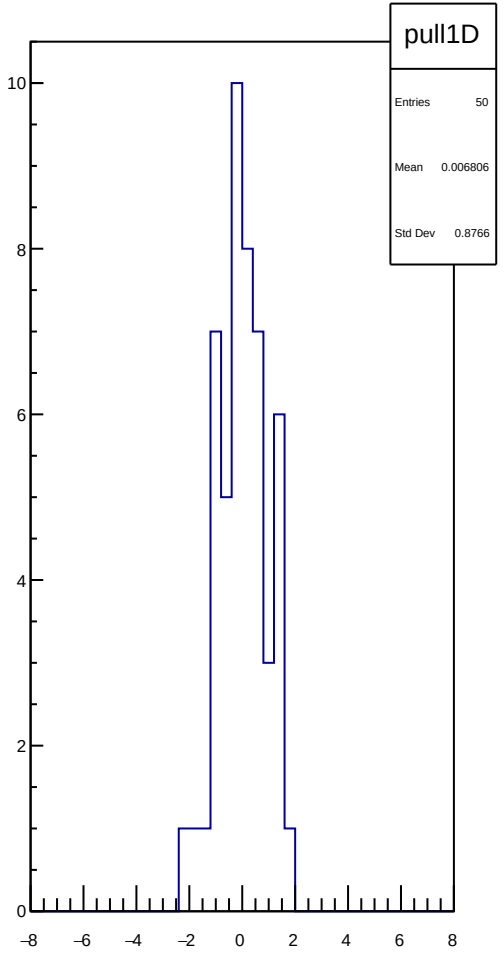

diff_bpm14X_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

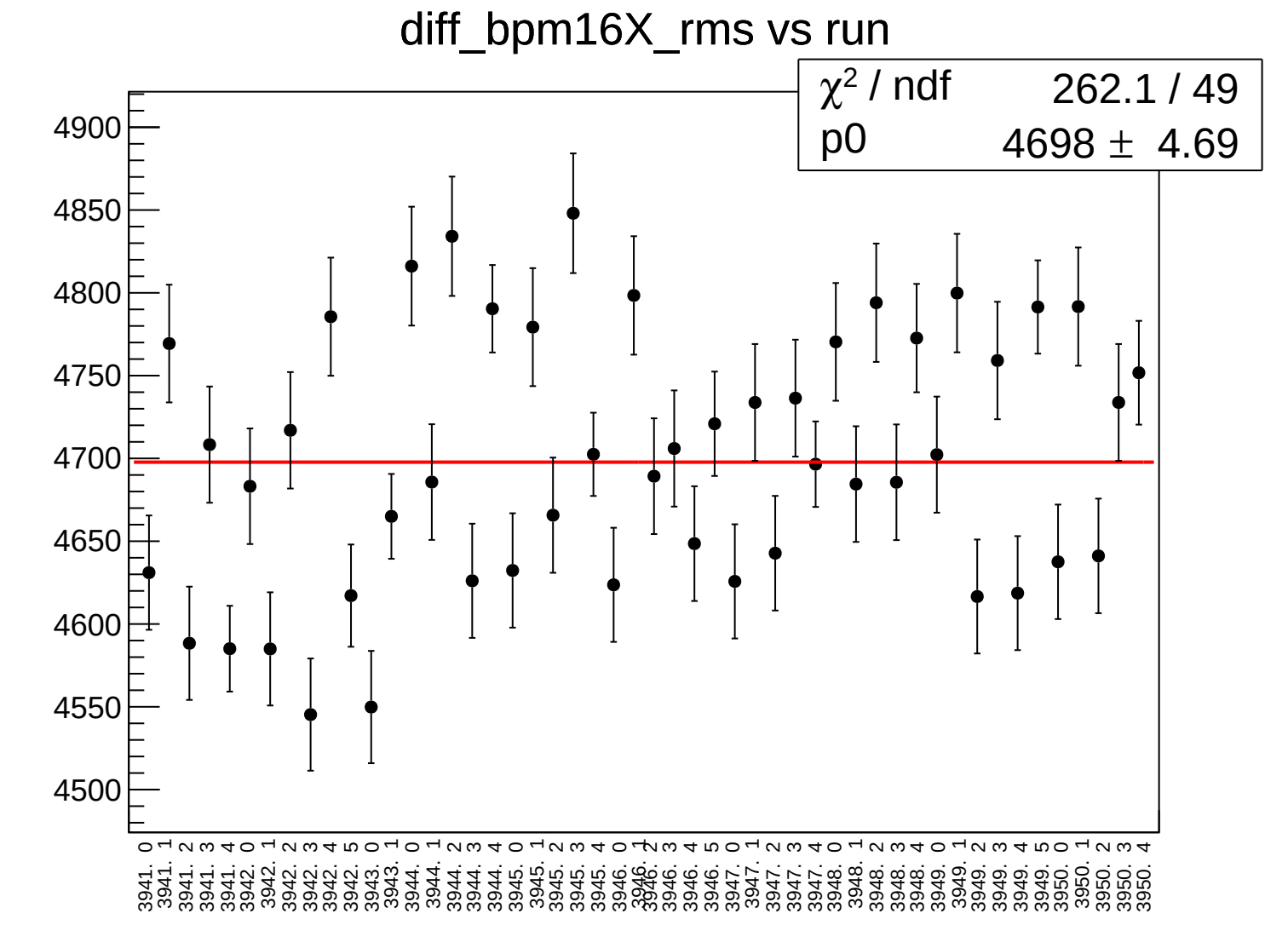

diff_bpm14Y_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

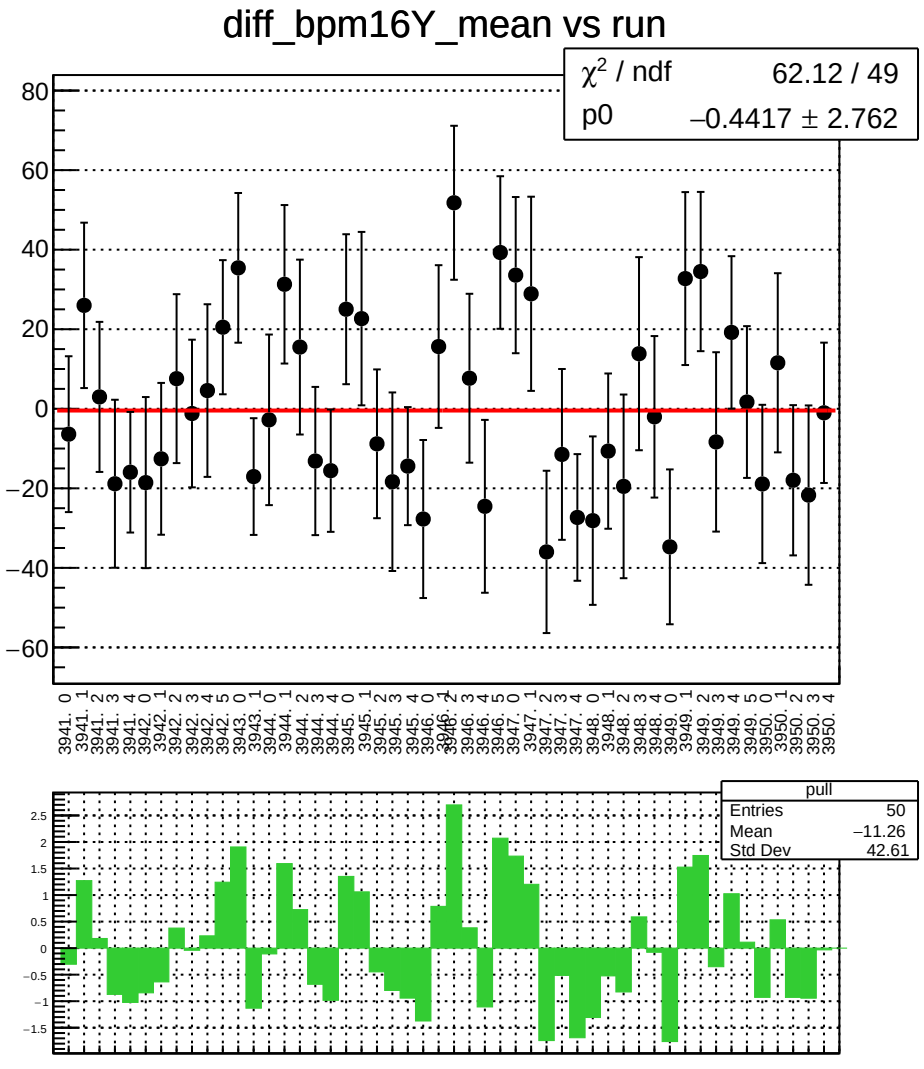

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

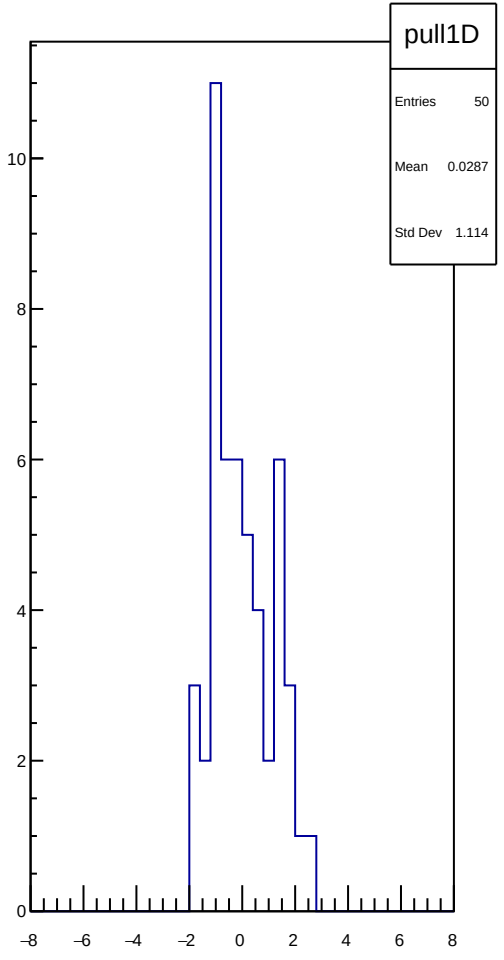

diff_bpm14Y_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

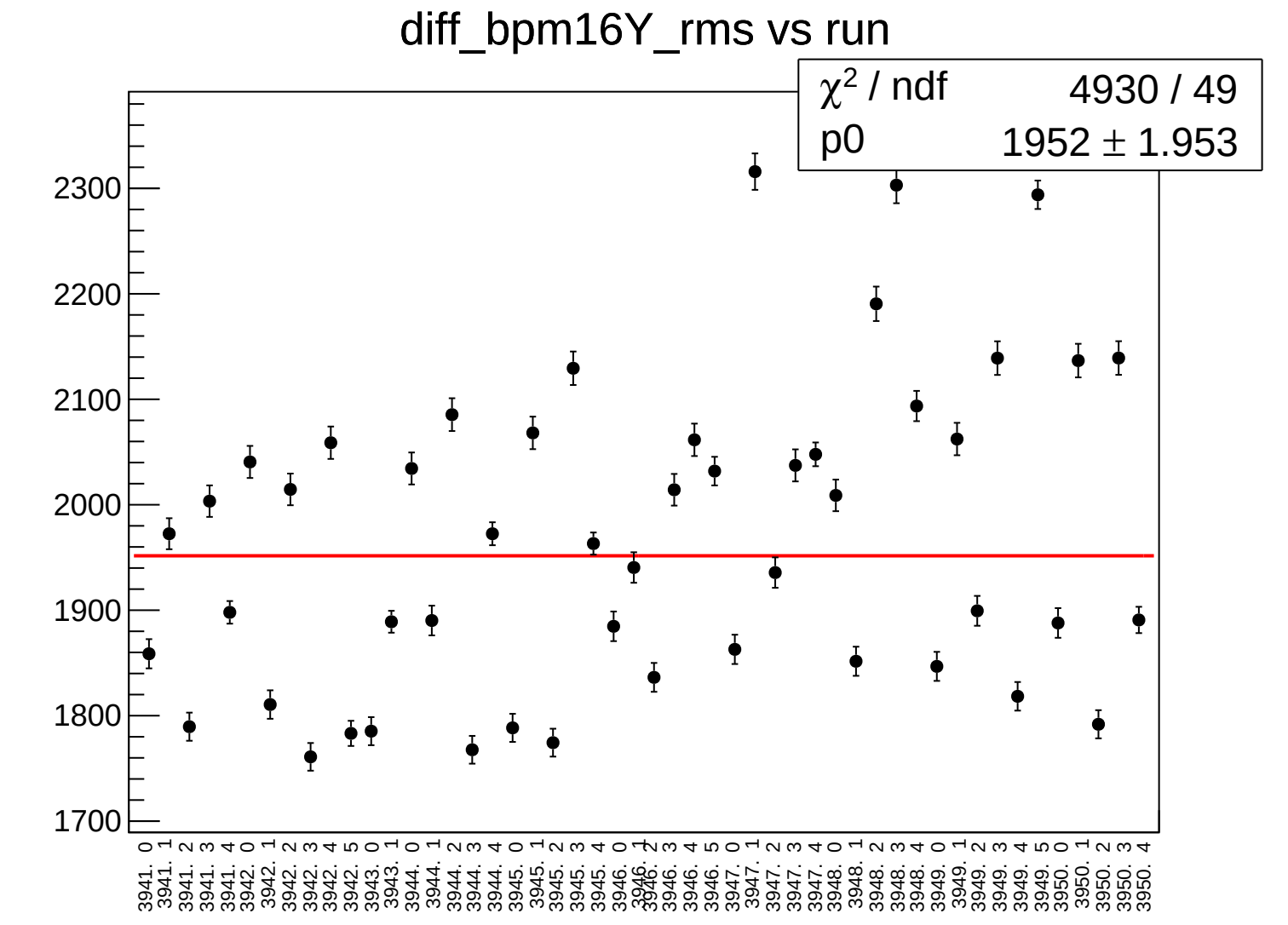

diff_bpm16X_mean vs run
$\chi^2$ / ndf 38.43 / 49
p0 1.953 ± 6.633
pull
Entries 50
Mean 95.28
Std Dev 78.85


pull1D
Entries 50
Mean 0.006806
Std Dev 0.8766


diff_bpm16X_rms vs run
χ² / ndf 262.1 / 49
p0 4698 ± 4.69
4900
4850
4800
4750
4700
4650
4600
4550
4500
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


diff_bpm16Y_mean vs run
χ² / ndf 62.12 / 49
p0 −0.4417 ± 2.762
pull
Entries 50
Mean −11.26
Std Dev 42.61


pull1D
Entries 50
Mean 0.0287
Std Dev 1.114


diff_bpm16Y_rms vs run
χ² / ndf 4930 / 49
p0 1952 ± 1.953
2300
2200
2100
2000
1900
1800
1700
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
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3948. 3
3948. 4
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3949. 3
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3949. 5
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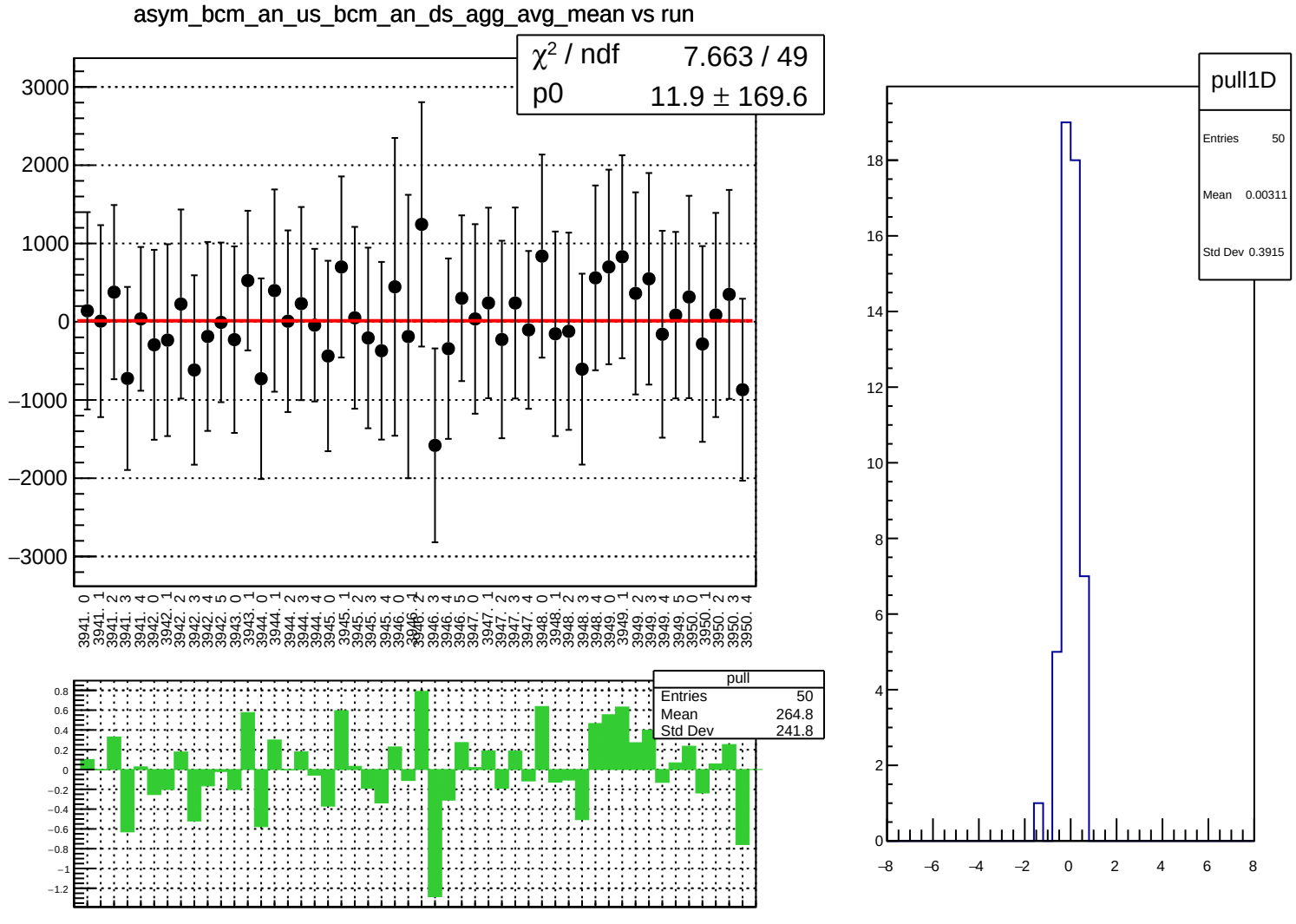
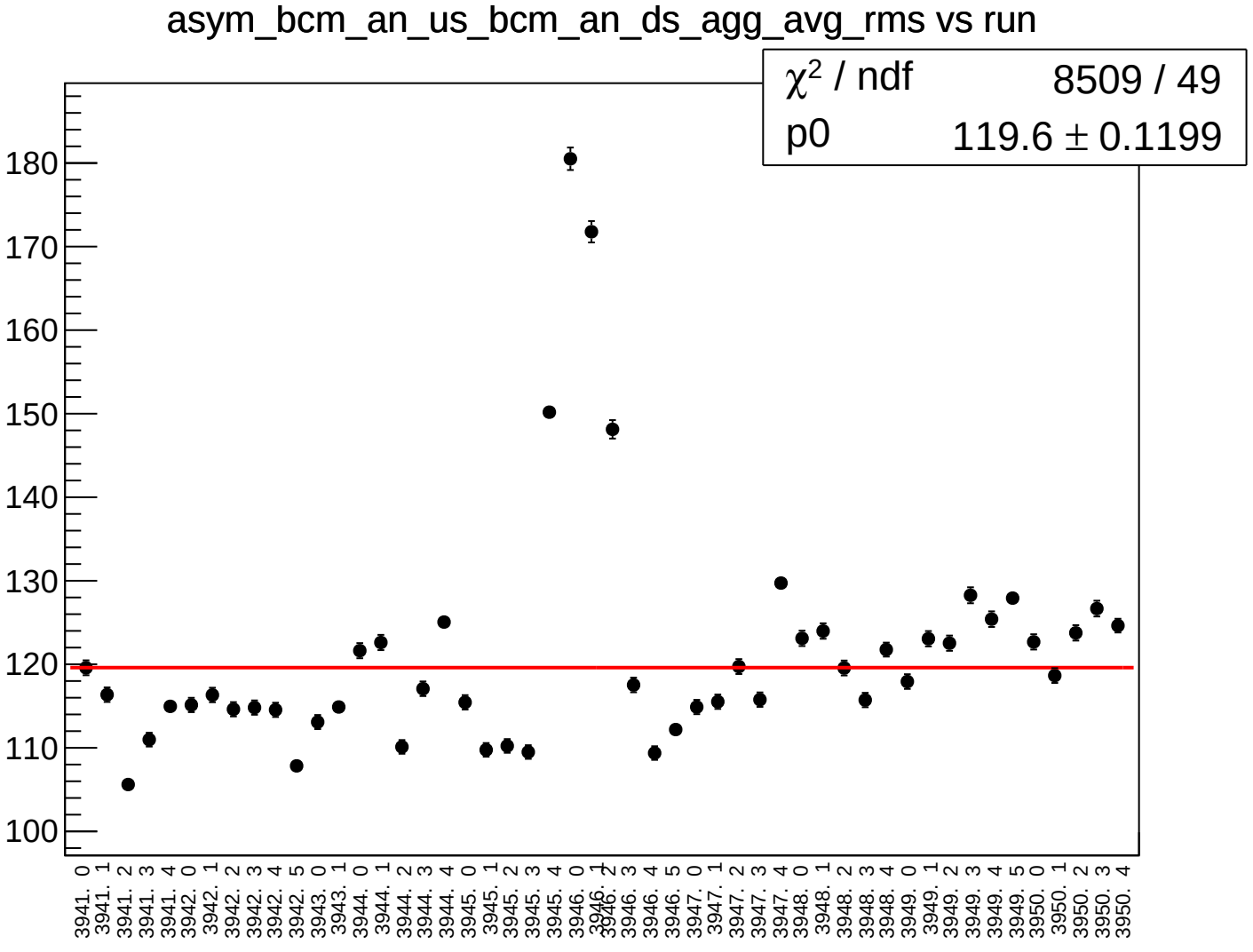
3950. 2
3950. 3
3950. 4


asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.663 / 49
p0 11.9 ± 169.6
pull
Entries 50
Mean 264.8
Std Dev 241.8
pull1D
Entries 50
Mean 0.00311
Std Dev 0.3915


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8509 / 49
p0 119.6 ± 0.1199
180
170
160
150
140
130
120
110
100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
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3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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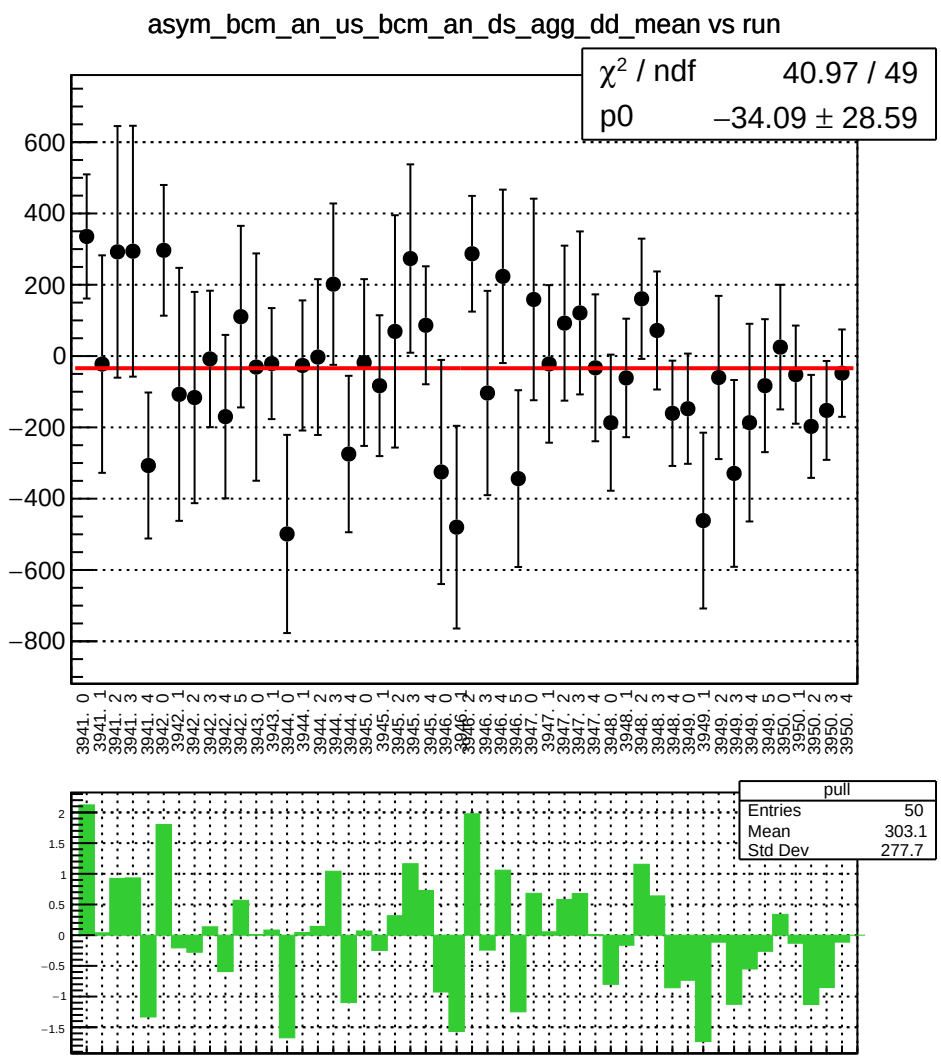
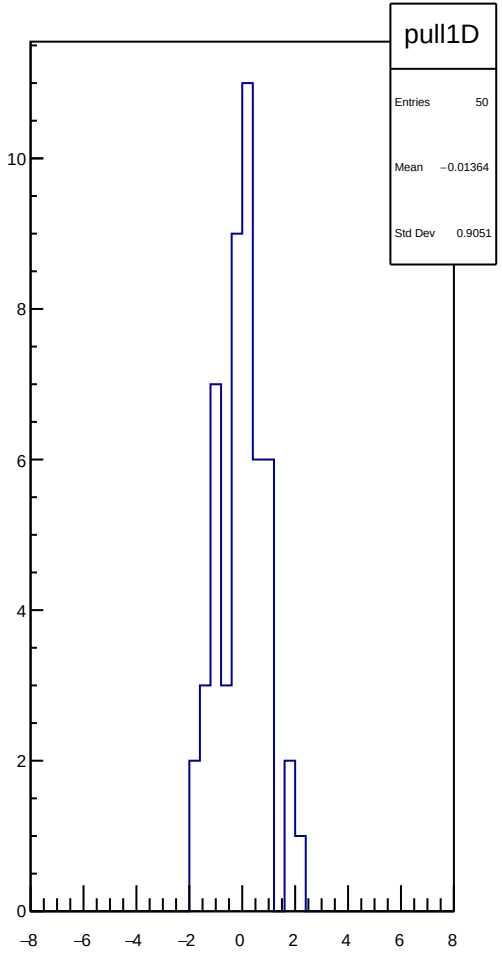
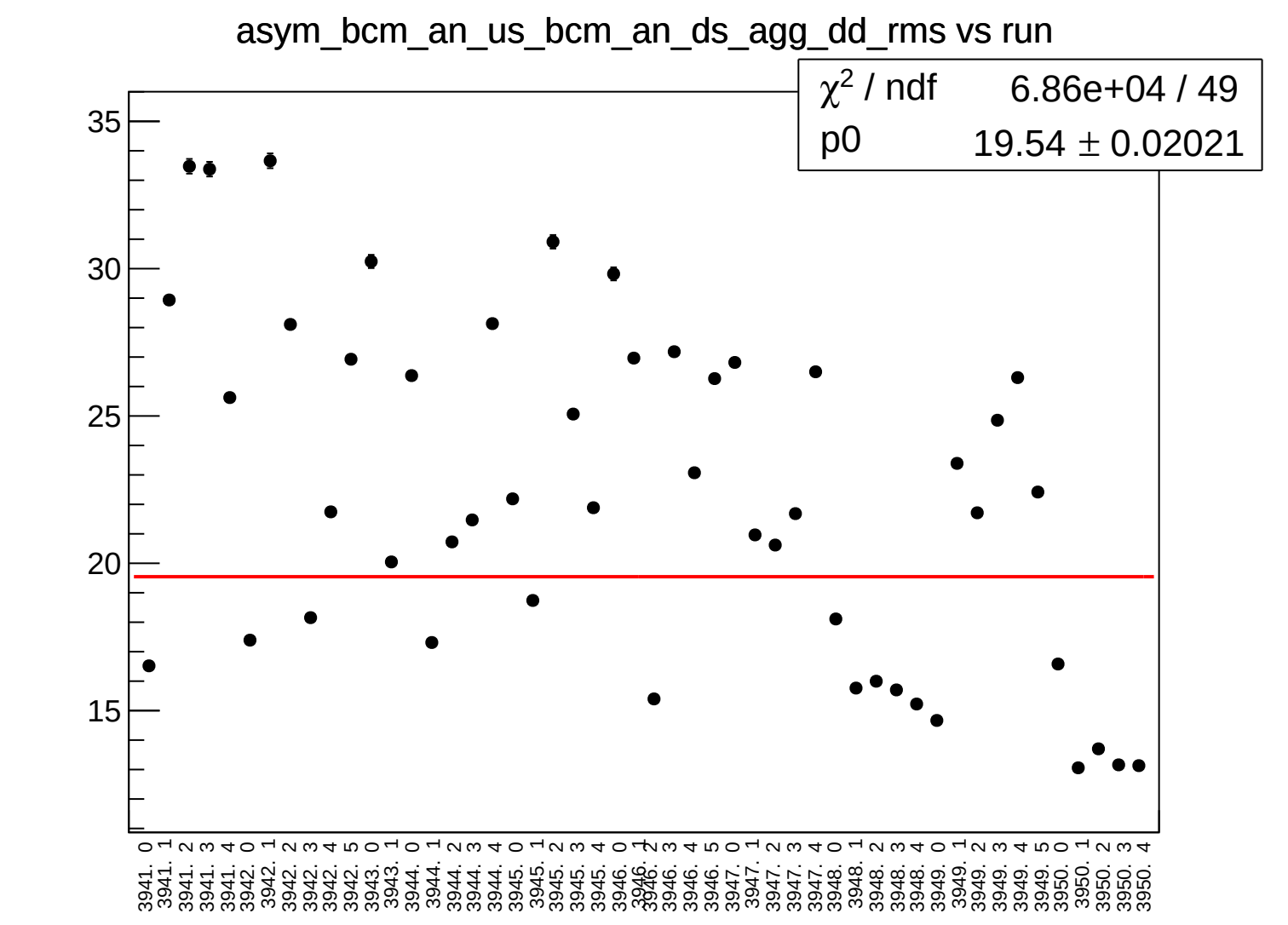
3950. 4


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 40.97 / 49
p0 −34.09 ± 28.59
pull
Entries 50
Mean 303.1
Std Dev 277.7


pull1D
Entries 50
Mean −0.01364
Std Dev 0.9051


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6.86e+04 / 49
p0 19.54 ± 0.02021
35
30
25
20
15
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
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3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
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3945. 1
3945. 2
3945. 3
3945. 4
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3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
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3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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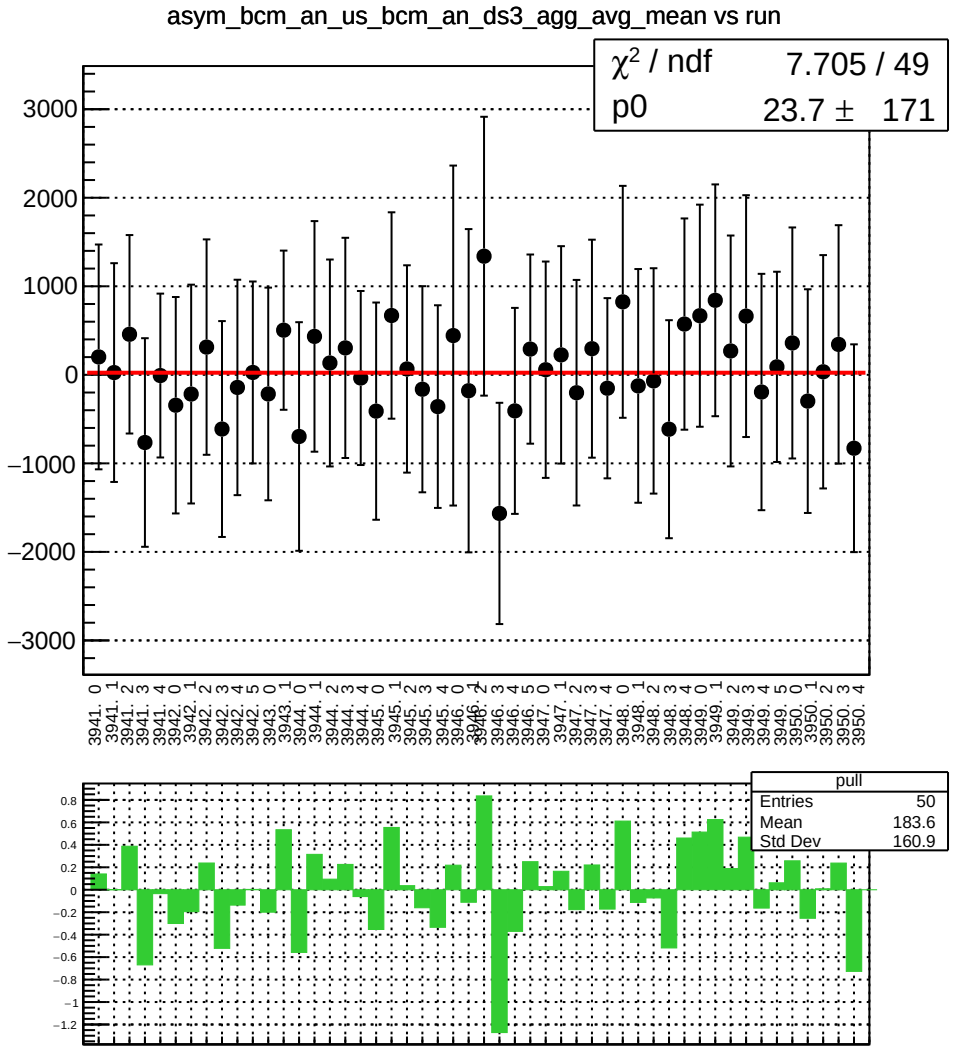
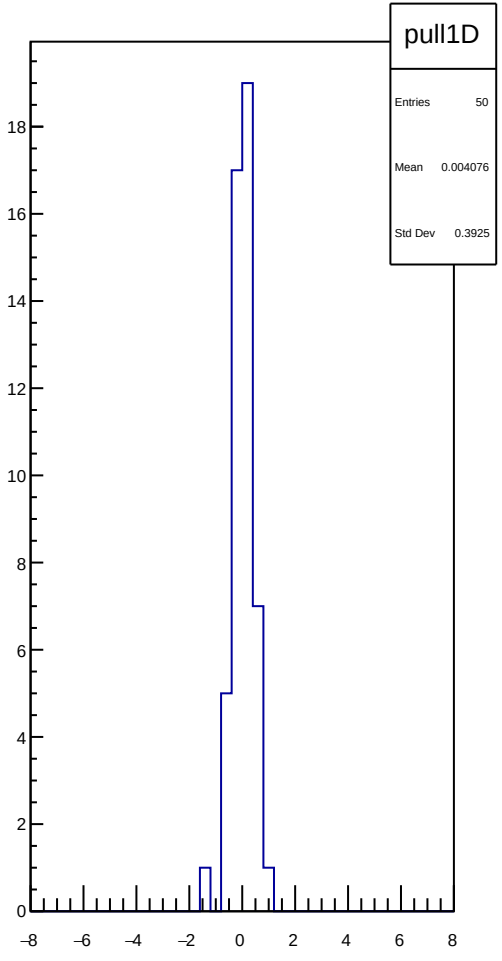
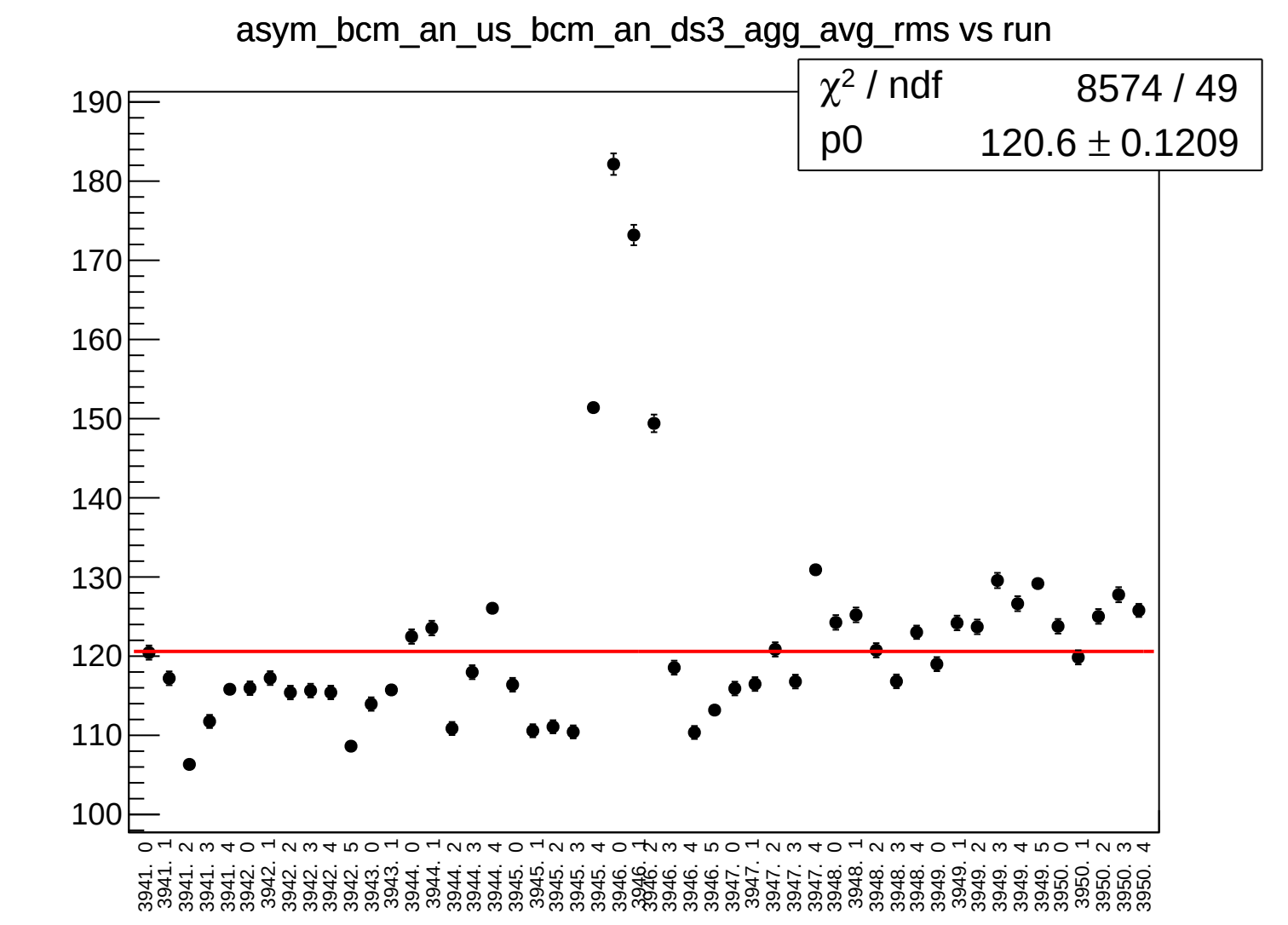
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 7.705 / 49
p0 23.7 ± 171
pull
Entries 50
Mean 183.6
Std Dev 160.9


pull1D
Entries 50
Mean 0.004076
Std Dev 0.3925


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 8574 / 49
p0 120.6 ± 0.1209
190
180
170
160
150
140
130
120
110
100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
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3944. 0
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3948. 2
3948. 3
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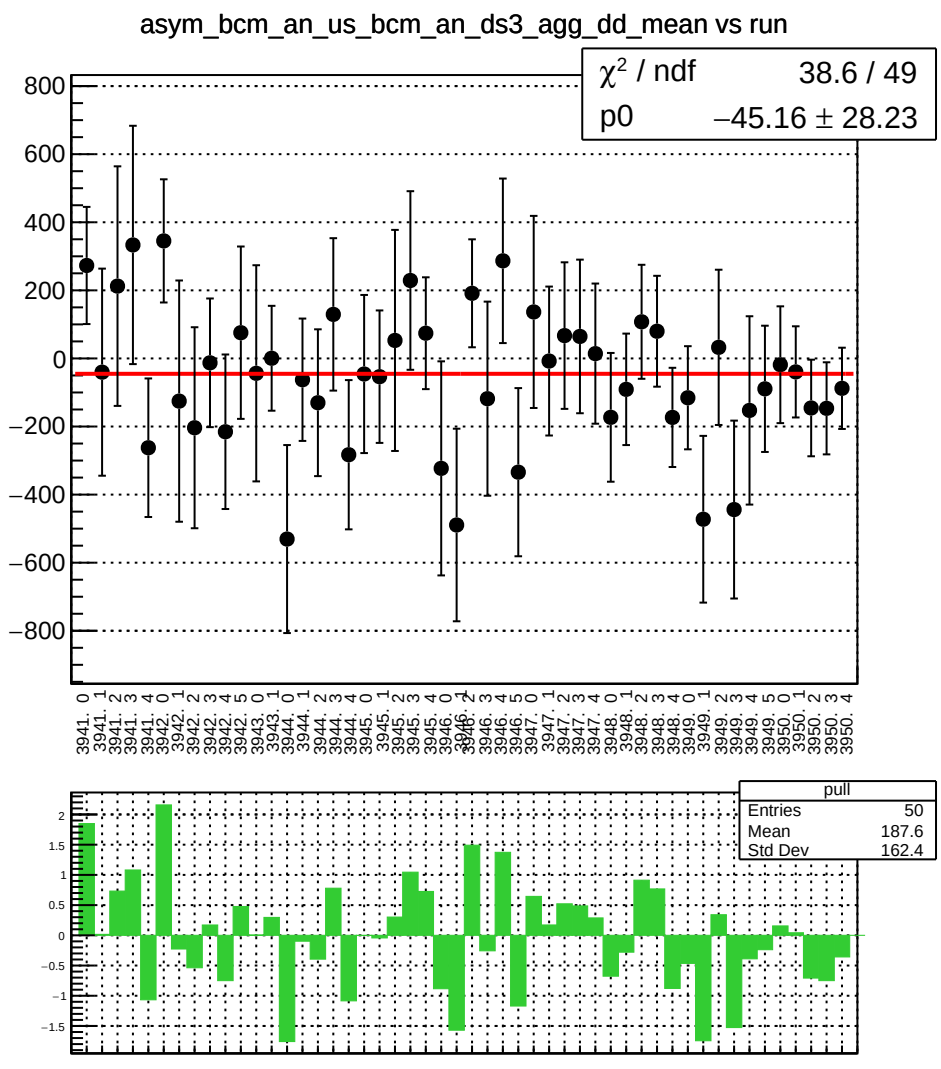
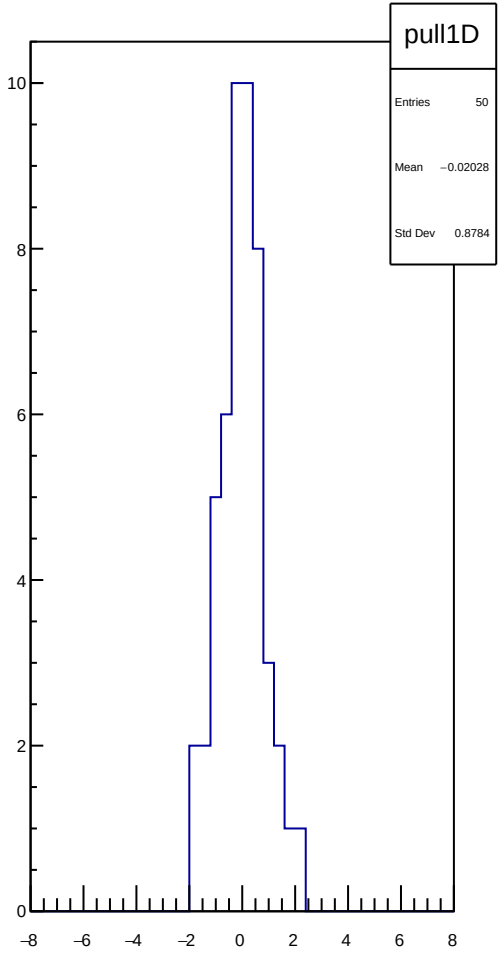
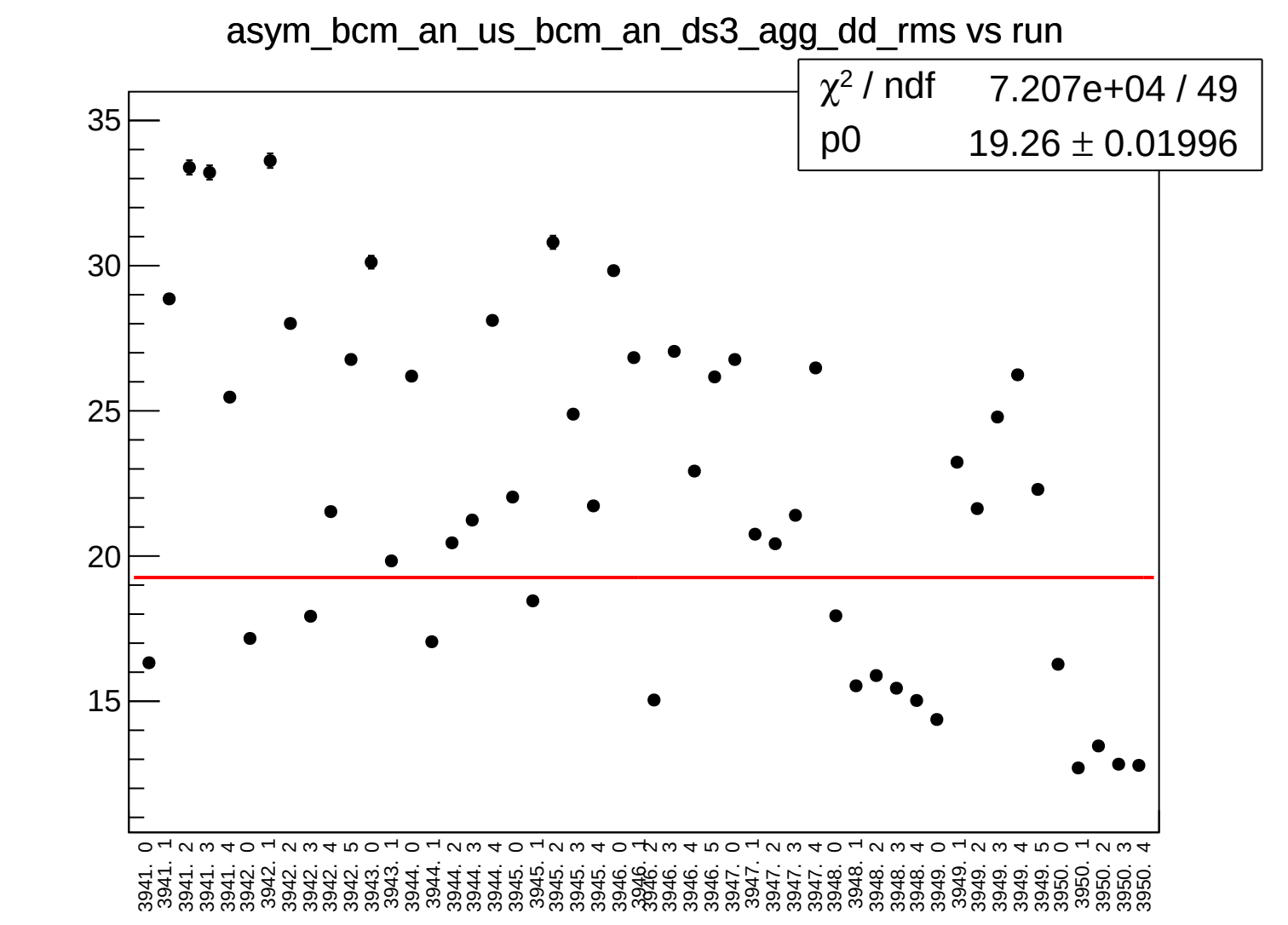
3950. 3
3950. 4


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 38.6 / 49
p0 −45.16 ± 28.23
pull
Entries 50
Mean 187.6
Std Dev 162.4


pull1D
Entries 50
Mean −0.02028
Std Dev 0.8784


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 7.207e+04 / 49
p0 19.26 ± 0.01996
35
30
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3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
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3944. 2
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3944. 4
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3946. 0
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3946. 2
3946. 3
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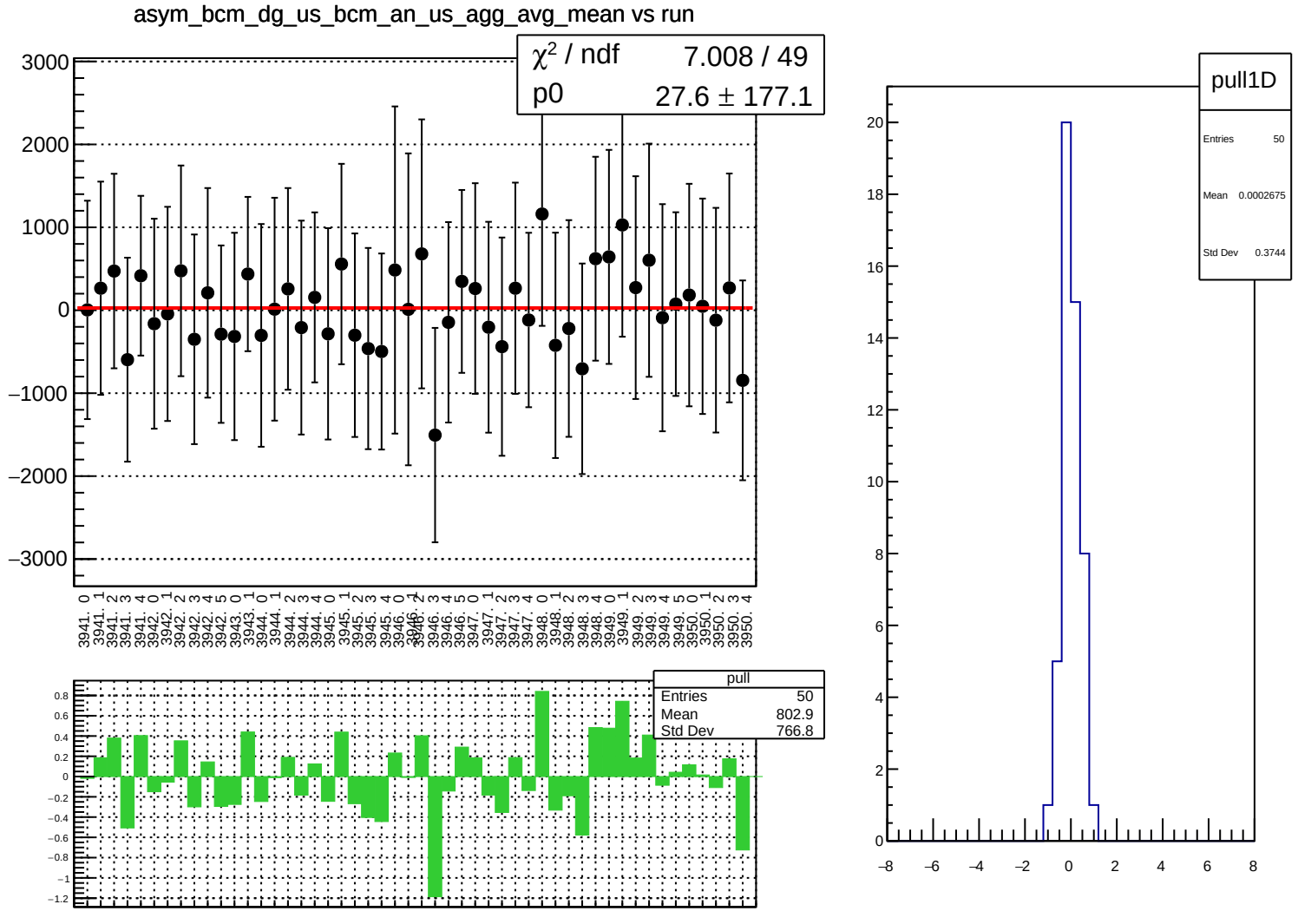
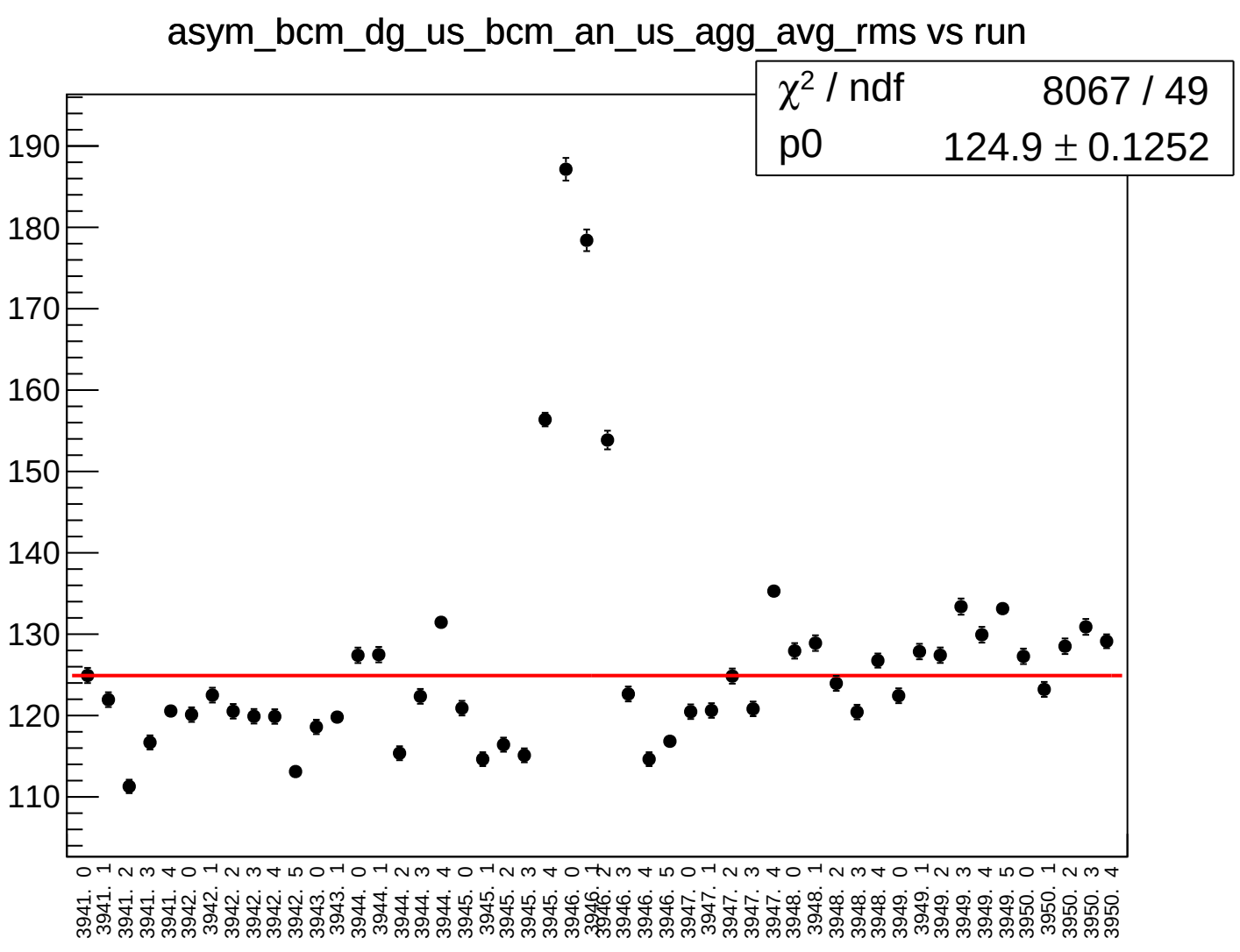

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.008 / 49
p0 27.6 ± 177.1
pull
Entries 50
Mean 802.9
Std Dev 766.8
pull1D
Entries 50
Mean 0.0002675
Std Dev 0.3744


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8067 / 49
p0 124.9 ± 0.1252
190
180
170
160
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3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
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3944. 4
3945. 0
3945. 1
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3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
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3946. 5
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3948. 2
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3948. 4
3949. 0
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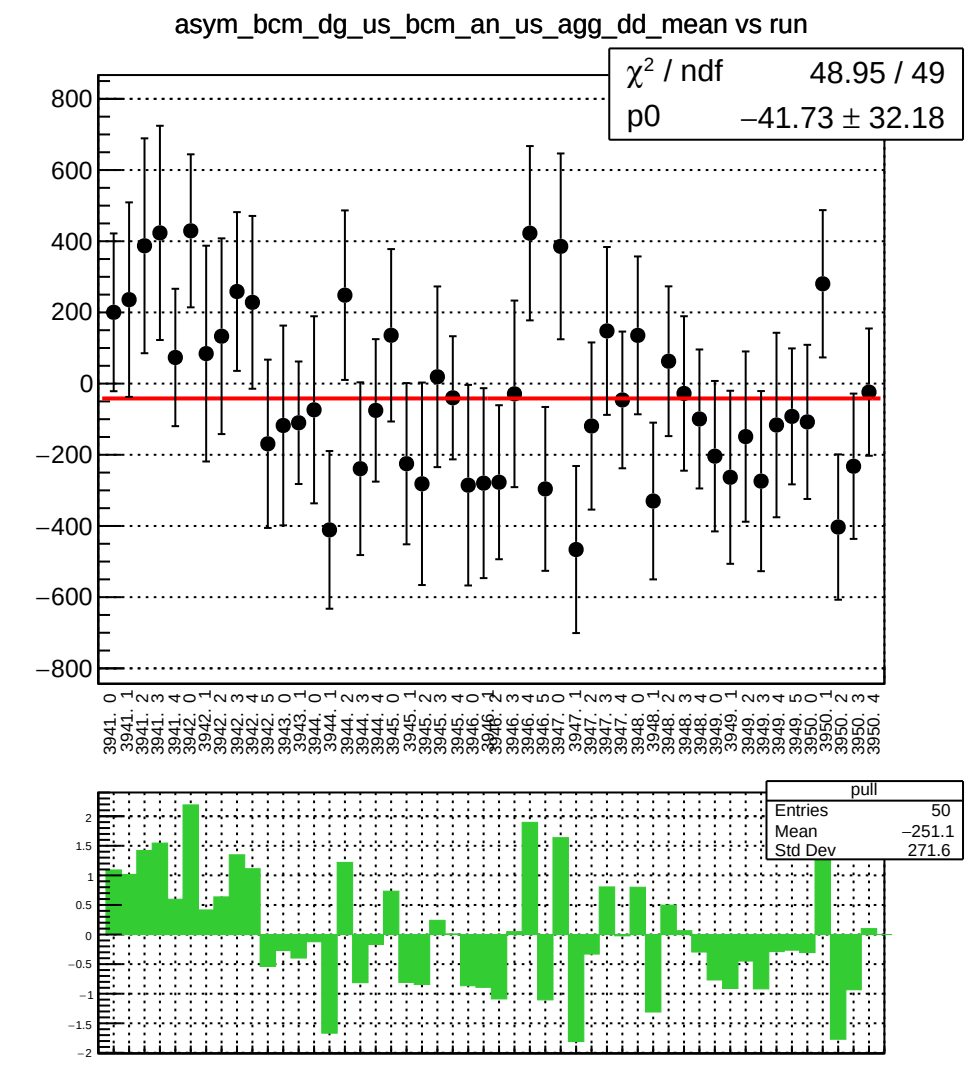
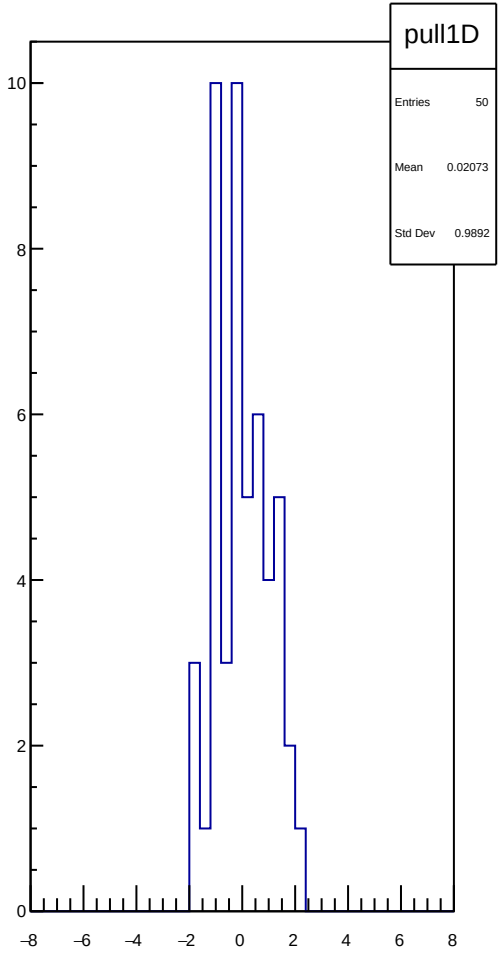
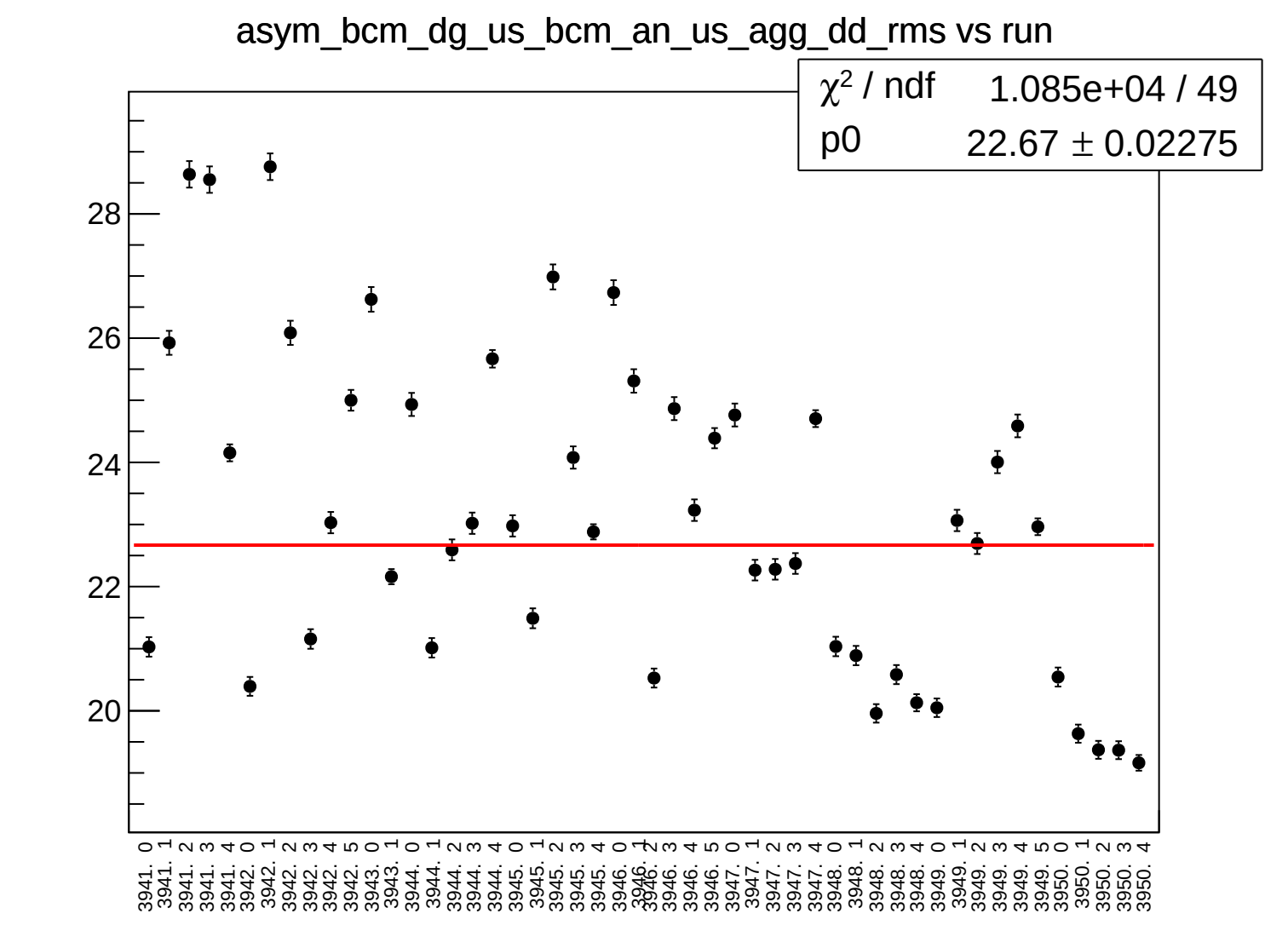
3950. 4


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 48.95 / 49
p0 −41.73 ± 32.18
pull
Entries 50
Mean −251.1
Std Dev 271.6


pull1D
Entries 50
Mean 0.02073
Std Dev 0.9892


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.085e+04 / 49
p0 22.67 ± 0.02275
28
26
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22
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3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
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3946. 1
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3950. 1
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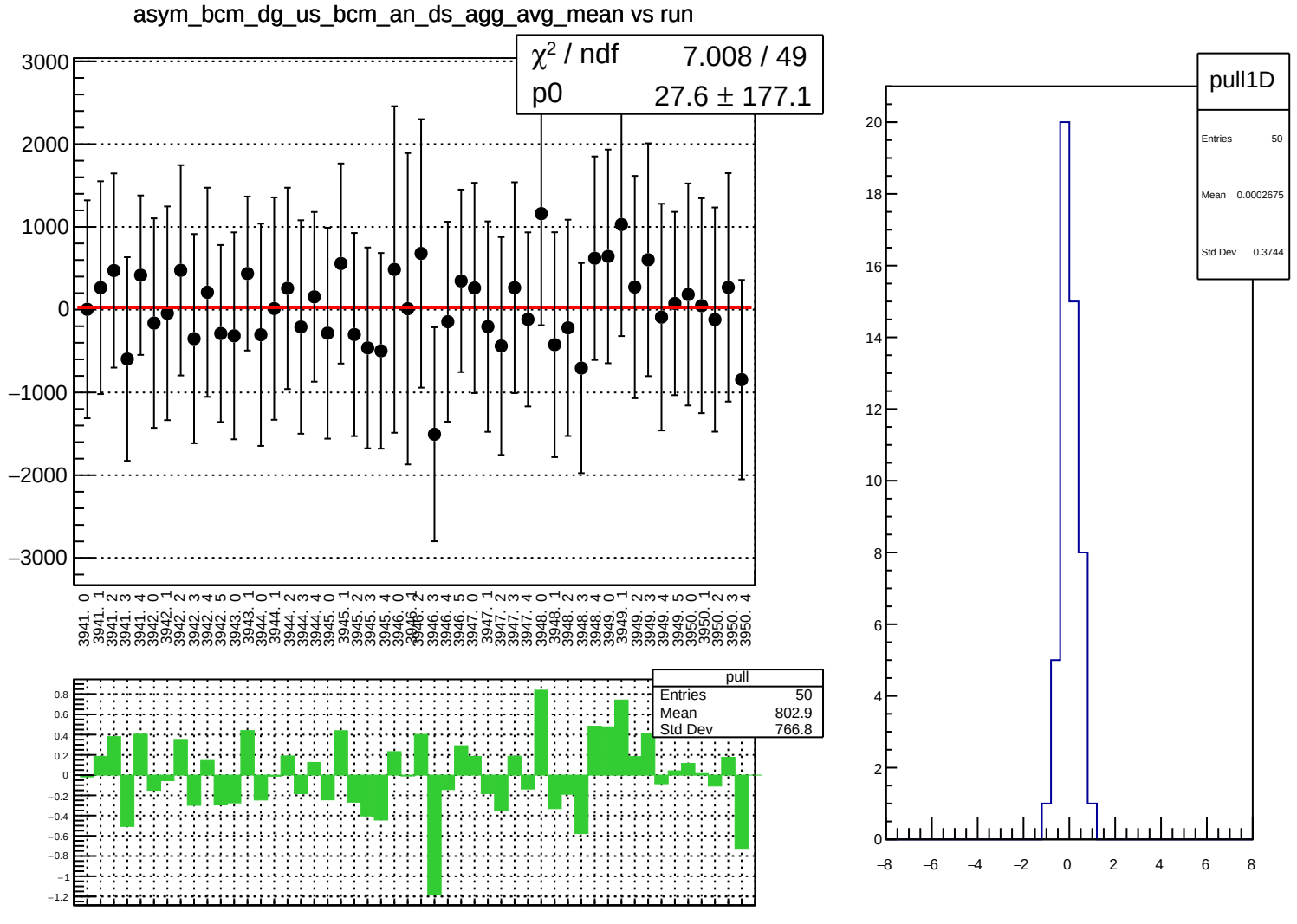
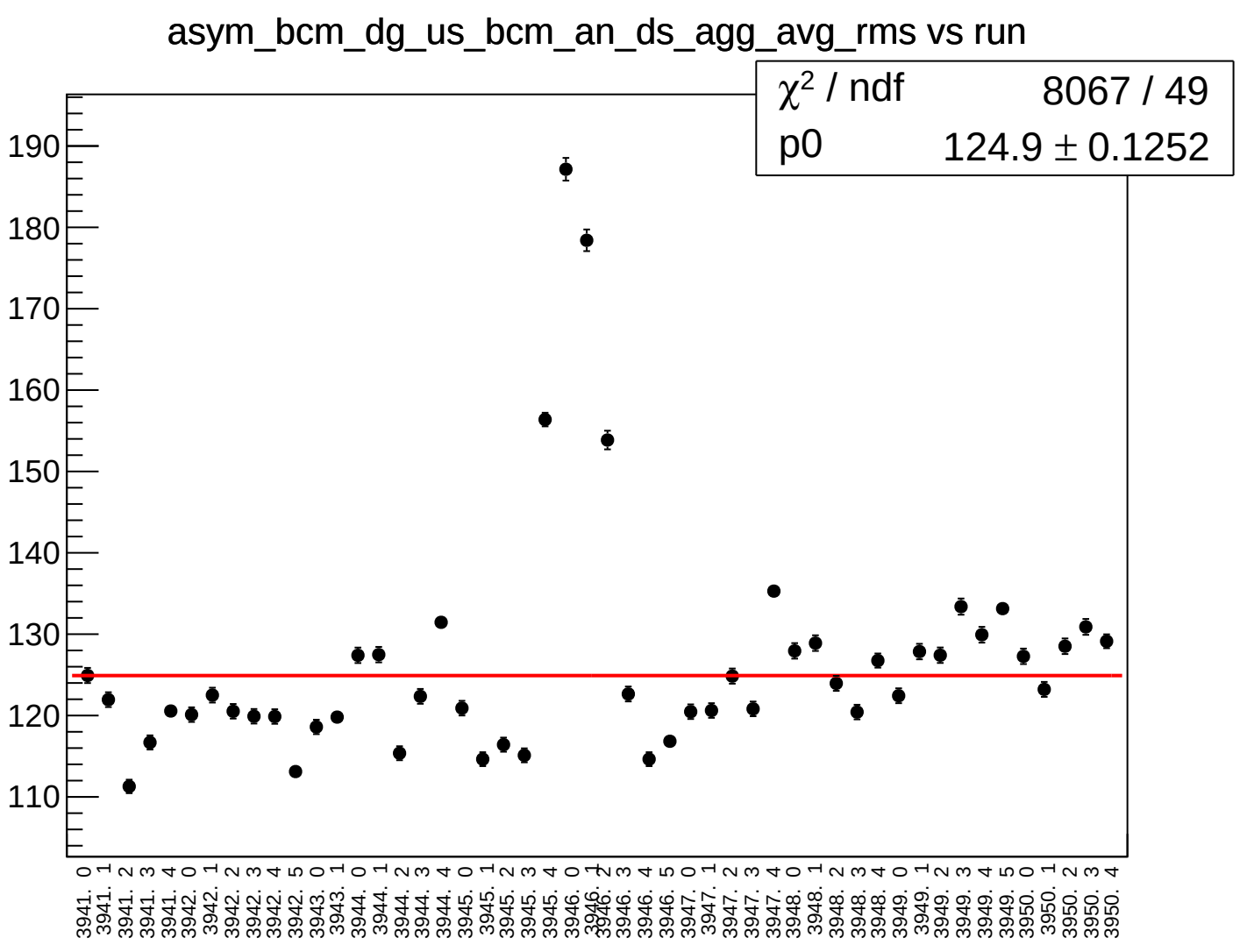

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.008 / 49
p0 27.6 ± 177.1
pull
Entries 50
Mean 802.9
Std Dev 766.8
pull1D
Entries 50
Mean 0.0002675
Std Dev 0.3744


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8067 / 49
p0 124.9 ± 0.1252
190
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3941. 0
3941. 1
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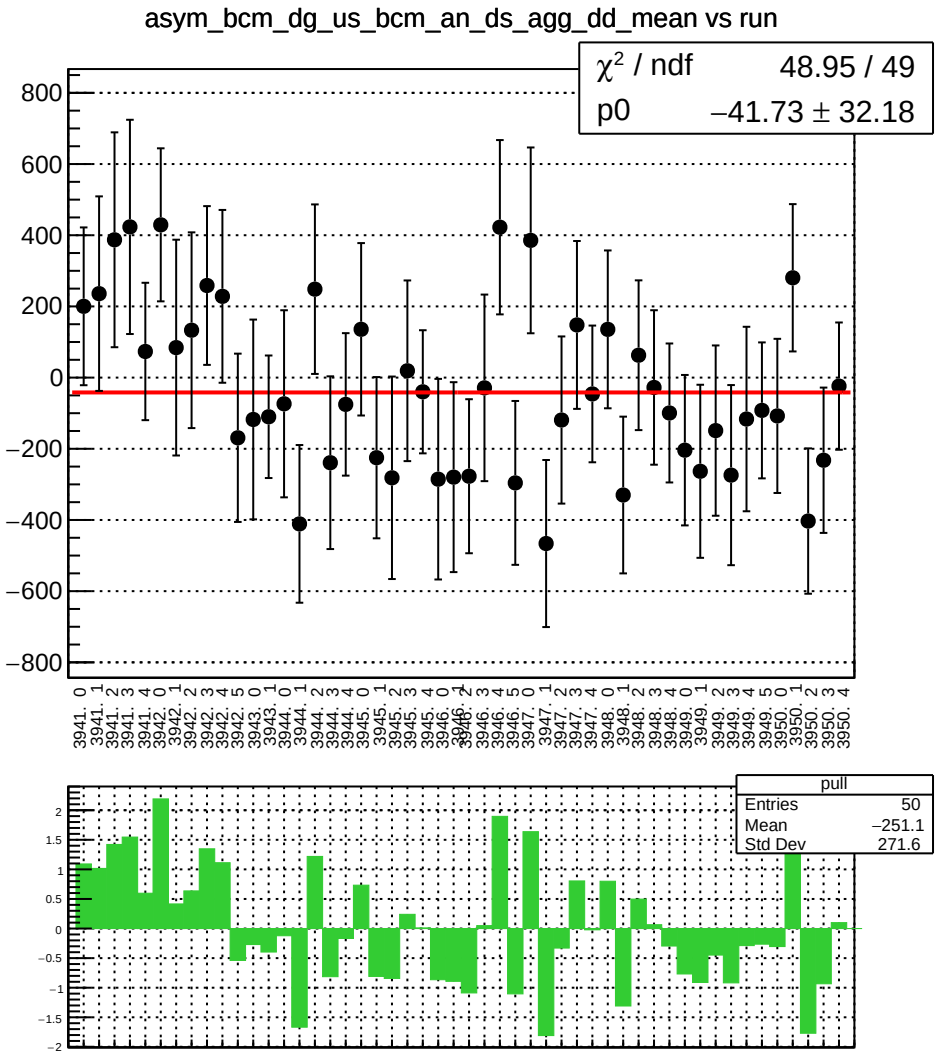
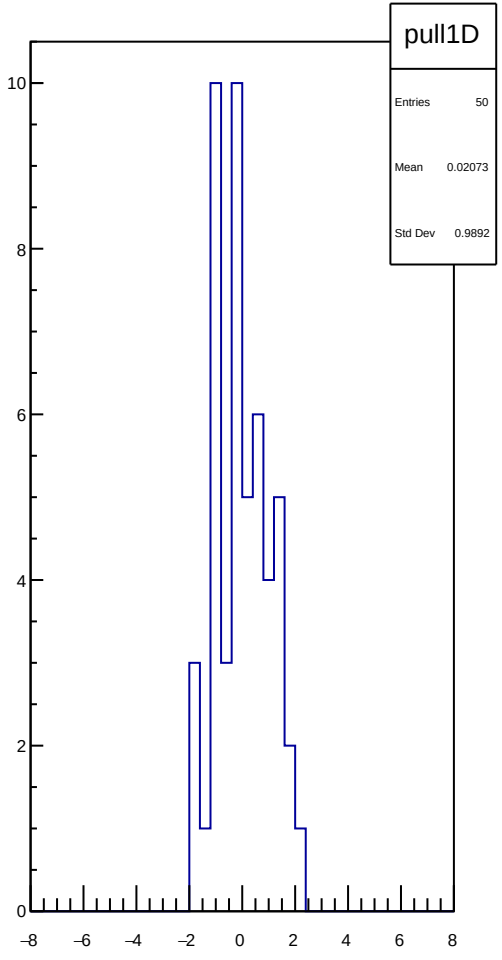
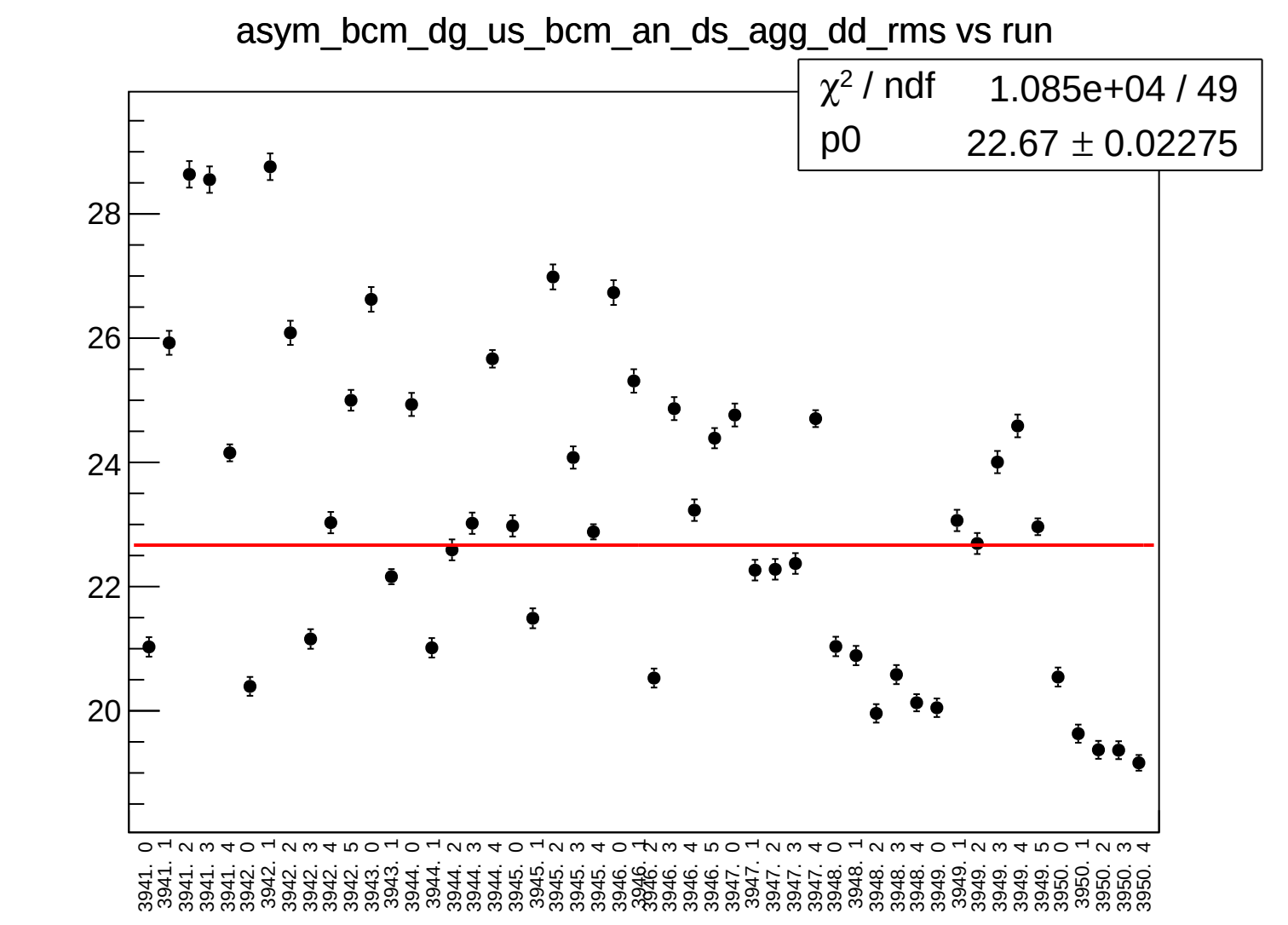

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 48.95 / 49
p0 −41.73 ± 32.18
pull
Entries 50
Mean −251.1
Std Dev 271.6


pull1D
Entries 50
Mean 0.02073
Std Dev 0.9892


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.085e+04 / 49
p0 22.67 ± 0.02275
28
26
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3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
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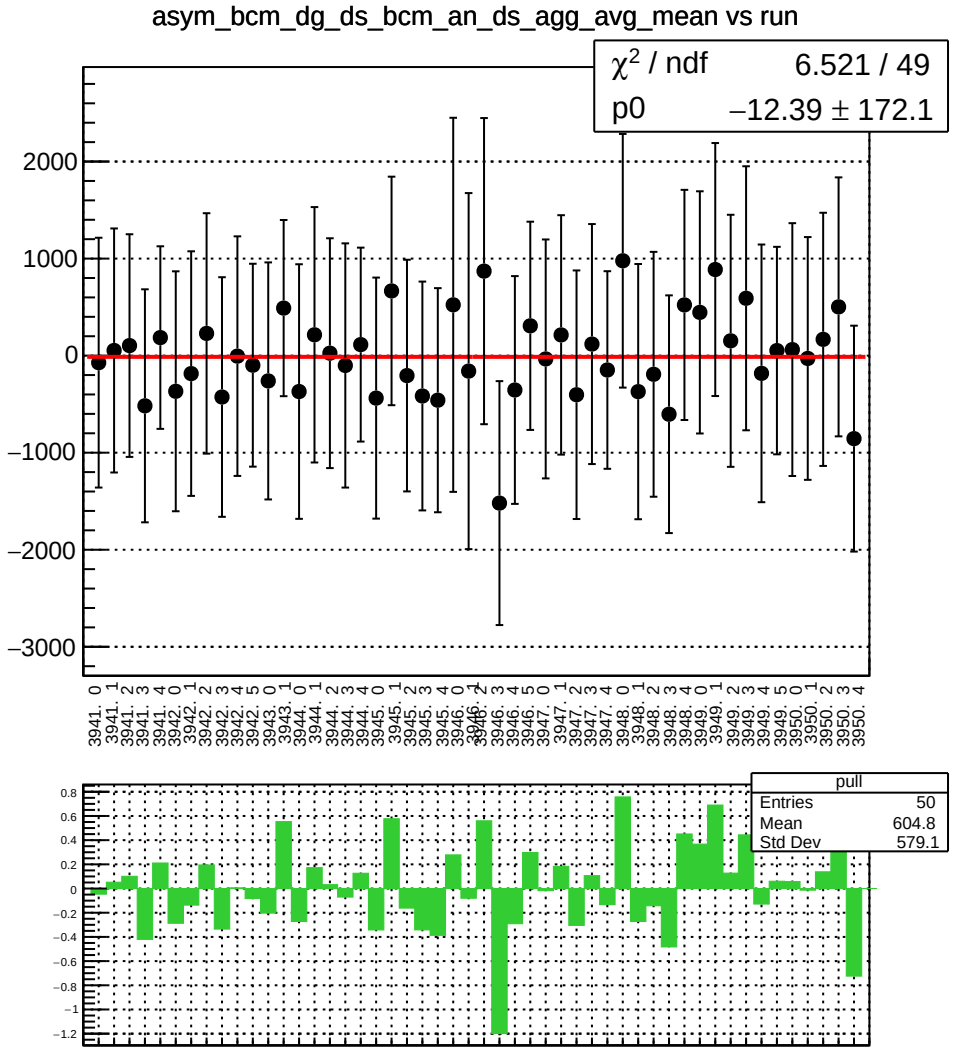
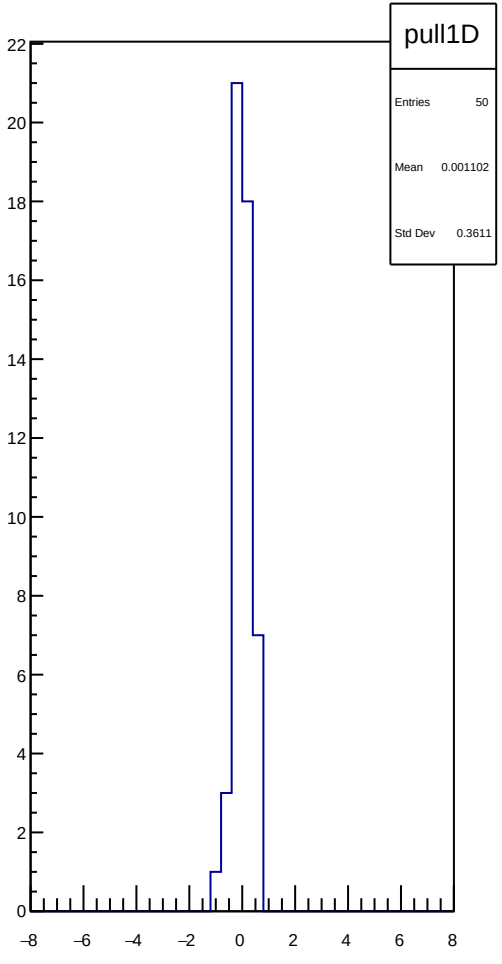
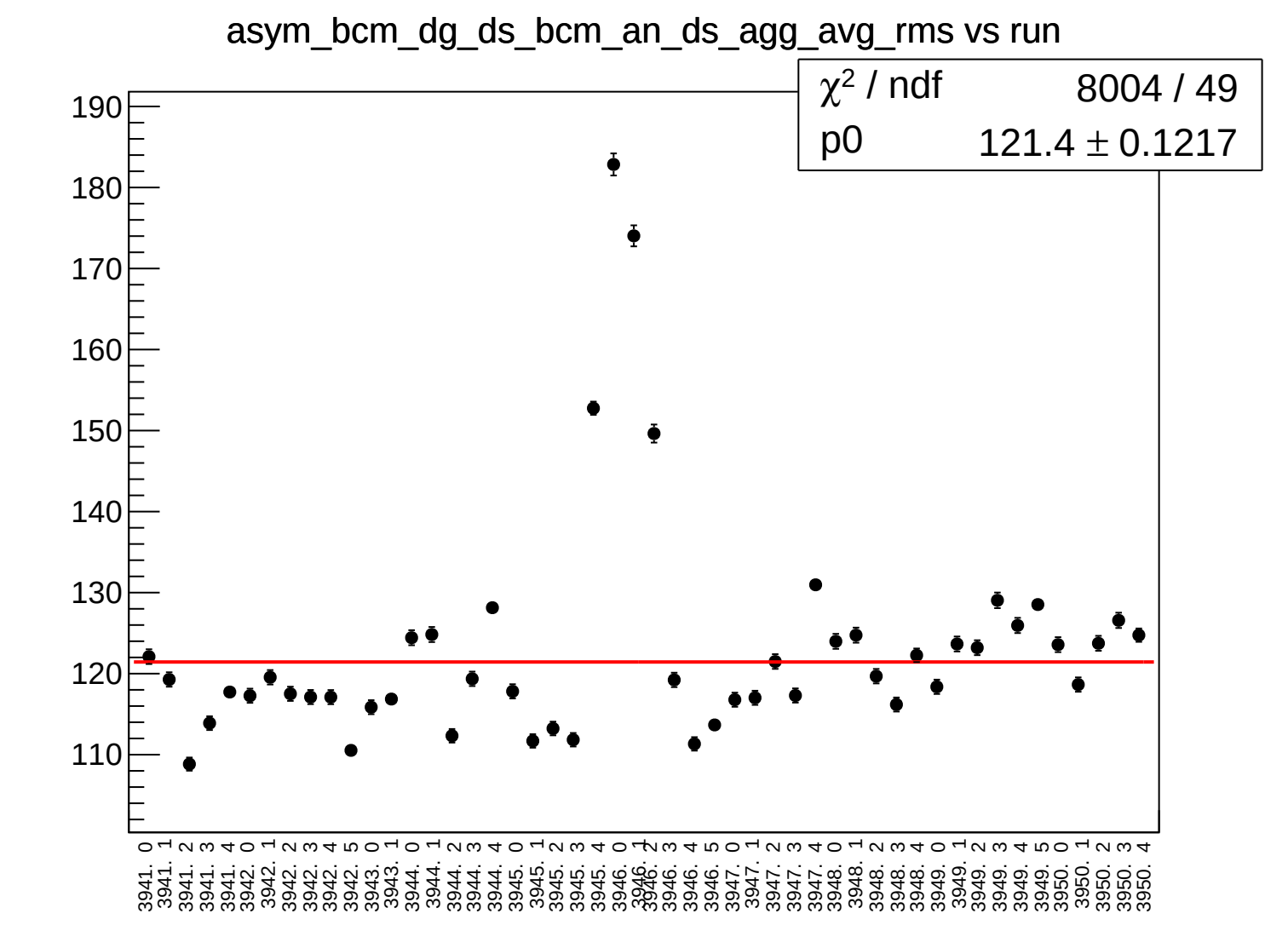

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.521 / 49
p0 −12.39 ± 172.1
pull
Entries 50
Mean 604.8
Std Dev 579.1


pull1D
Entries 50
Mean 0.001102
Std Dev 0.3611


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8004 / 49
p0 121.4 ± 0.1217
190
180
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3941. 0
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3942. 3
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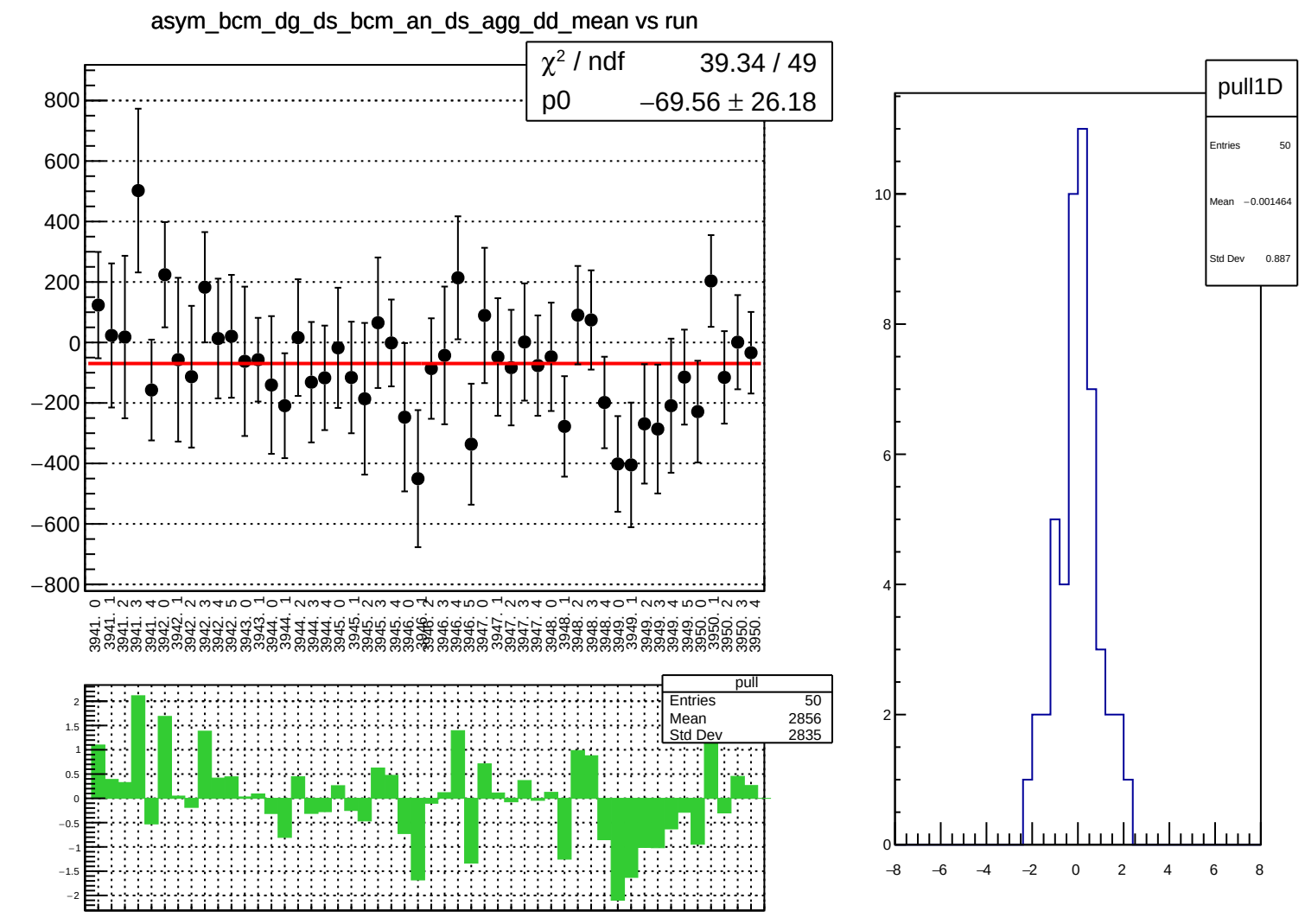
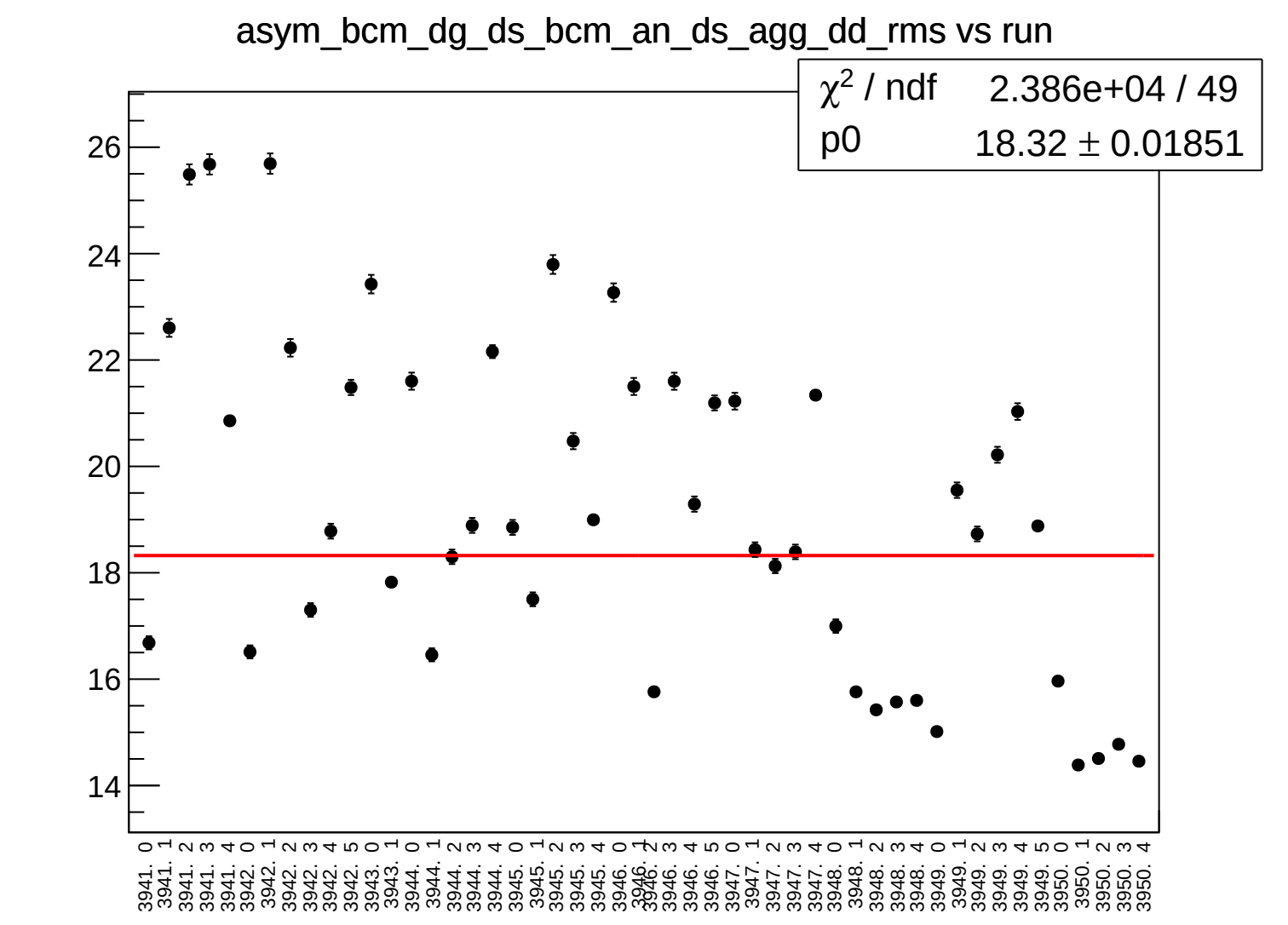

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 39.34 / 49
p0 −69.56 ± 26.18
pull
Entries 50
Mean 2856
Std Dev 2835
pull1D
Entries 50
Mean −0.001464
Std Dev 0.887


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.386e+04 / 49
p0 18.32 ± 0.01851
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3941. 0
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3941. 2
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3941. 4
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3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
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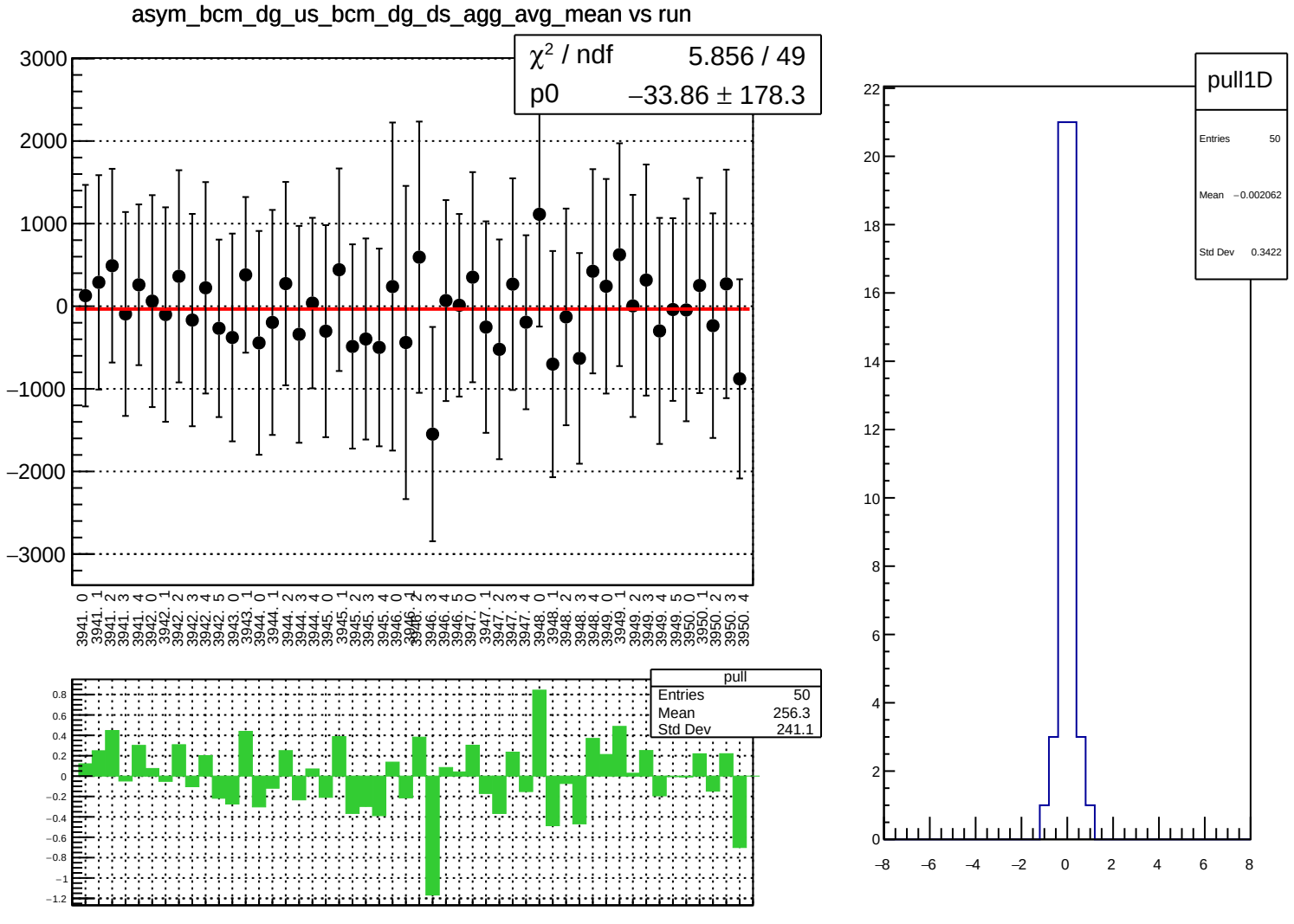
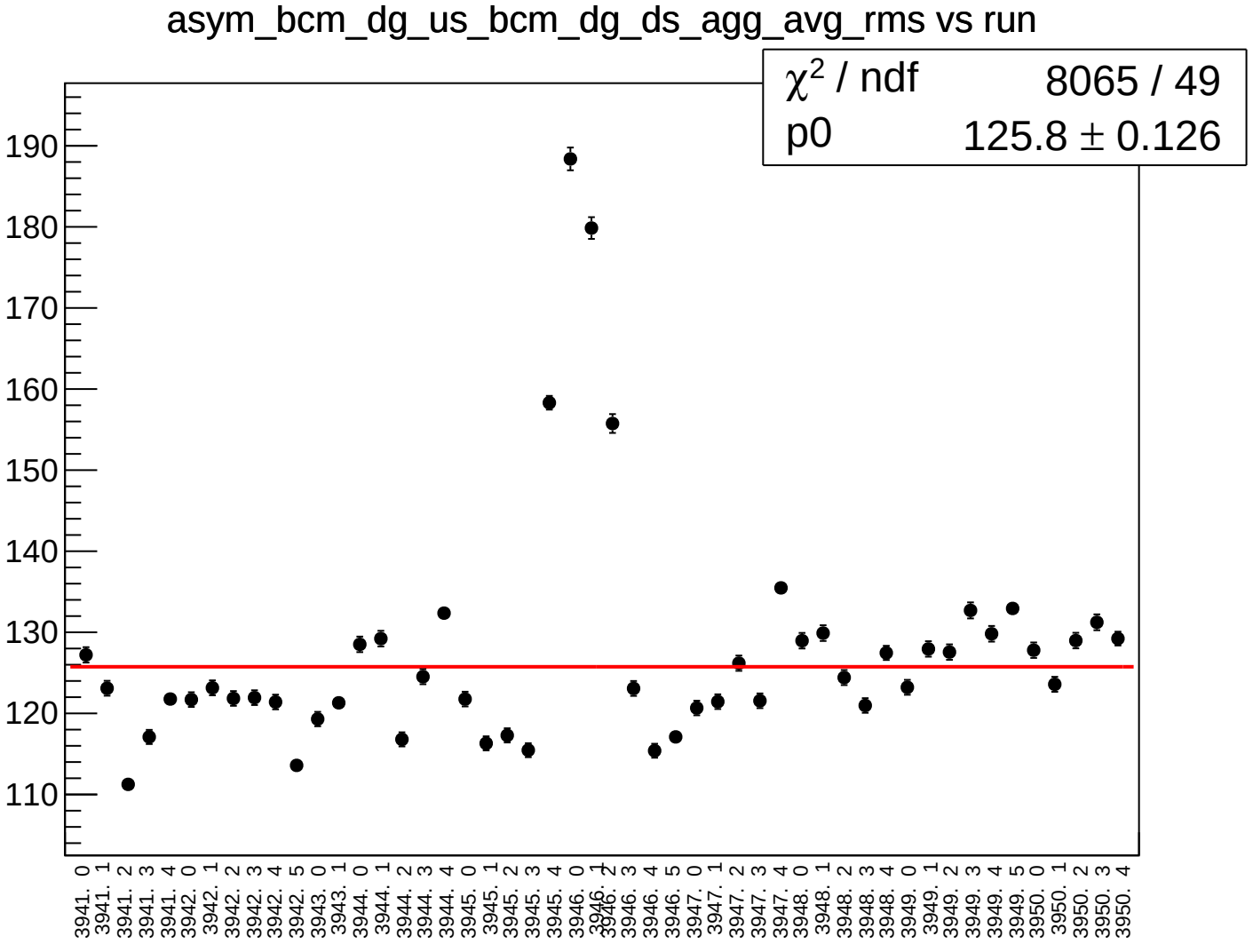
3950. 2
3950. 3
3950. 4


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 5.856 / 49
p0 −33.86 ± 178.3
pull
Entries 50
Mean 256.3
Std Dev 241.1
pull1D
Entries 50
Mean −0.002062
Std Dev 0.3422


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 8065 / 49
p0 125.8 ± 0.126
190
180
170
160
150
140
130
120
110
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
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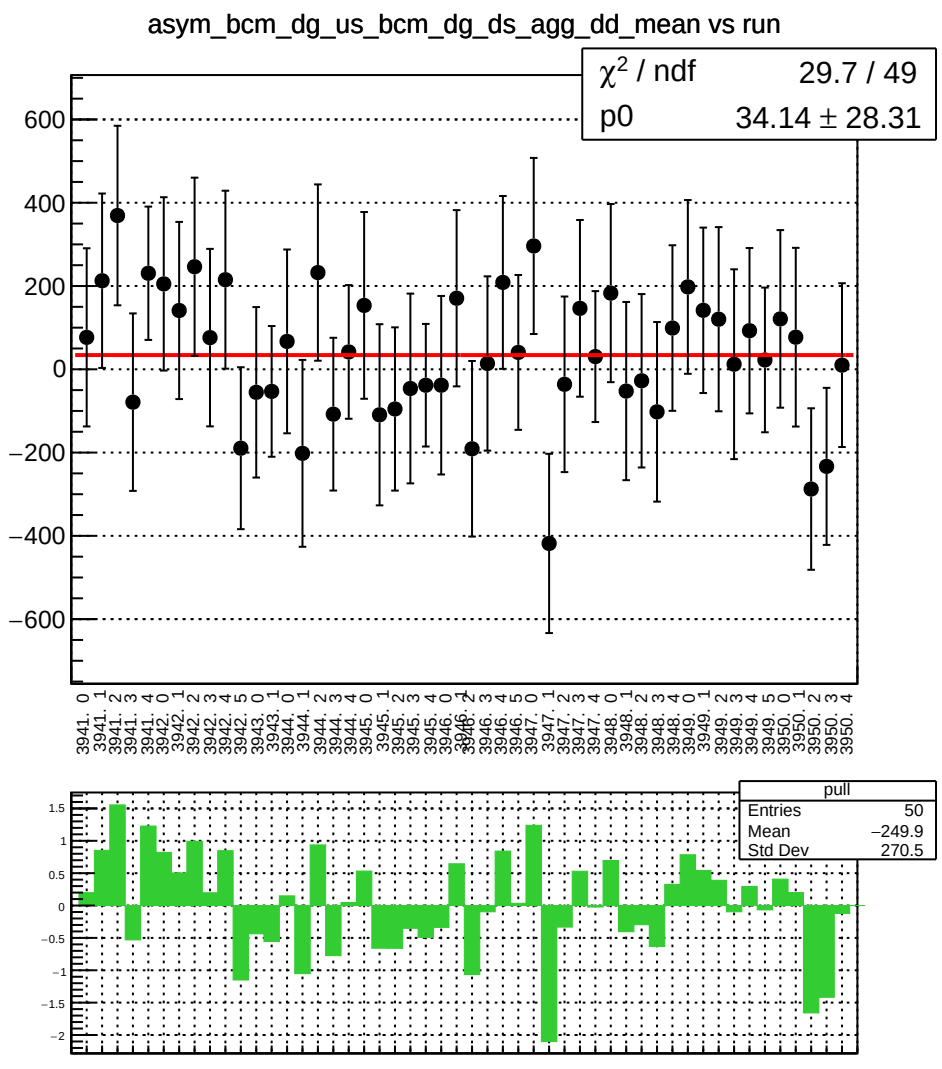
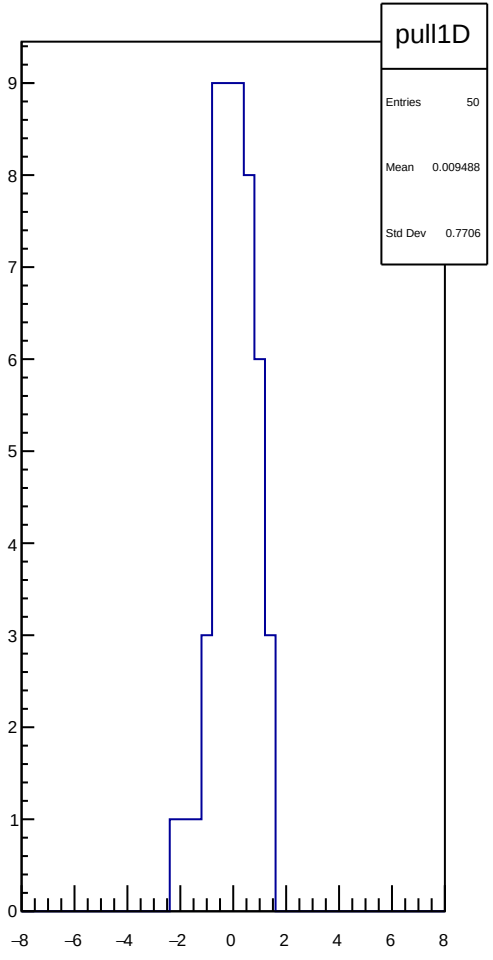
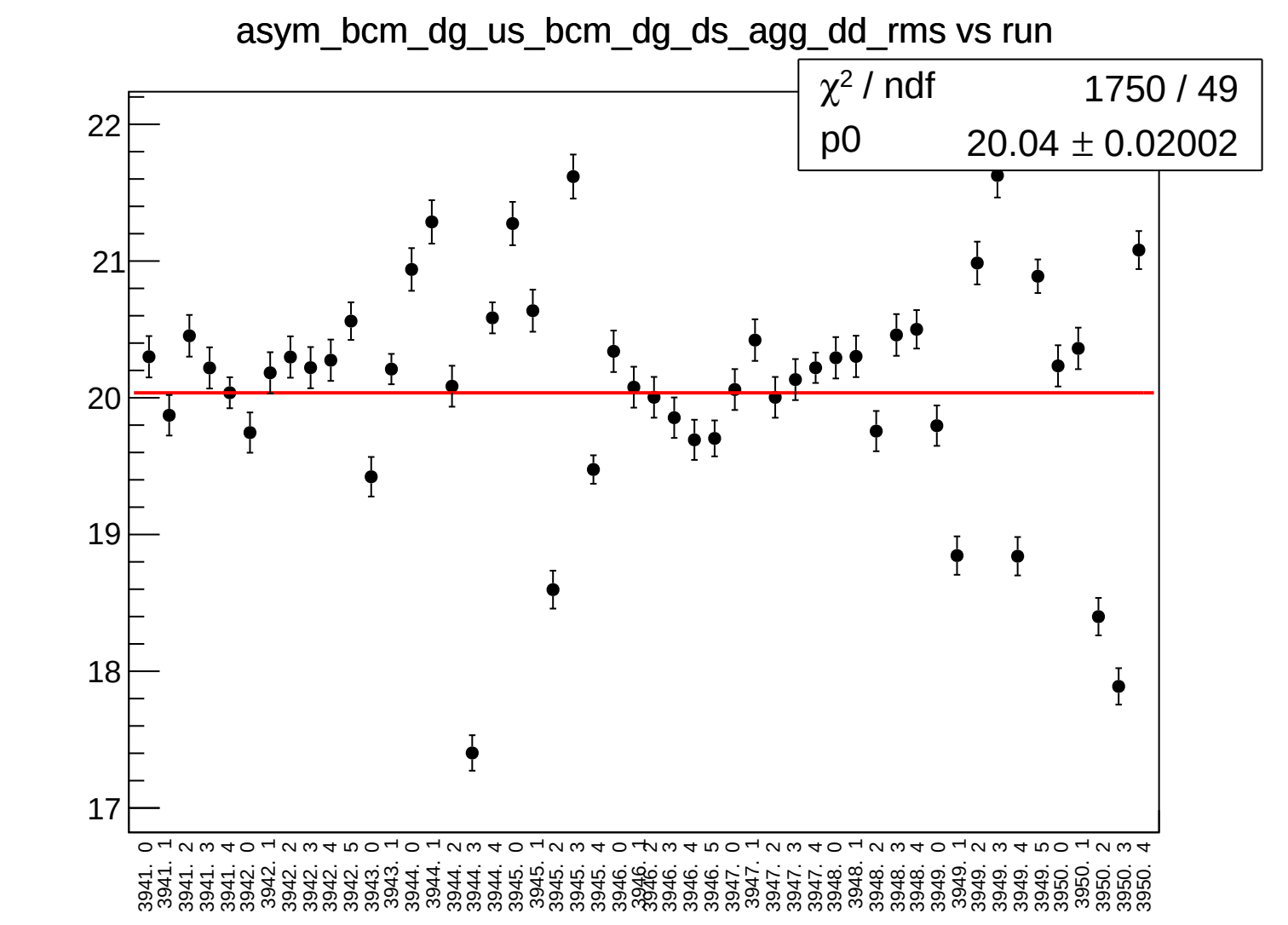
3950. 2
3950. 3
3950. 4


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 29.7 / 49
p0 34.14 ± 28.31
pull
Entries 50
Mean −249.9
Std Dev 270.5


pull1D
Entries 50
Mean 0.009488
Std Dev 0.7706


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1750 / 49
p0 20.04 ± 0.02002
22
21
20
19
18
17
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
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3944. 0
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3944. 2
3944. 3
3944. 4
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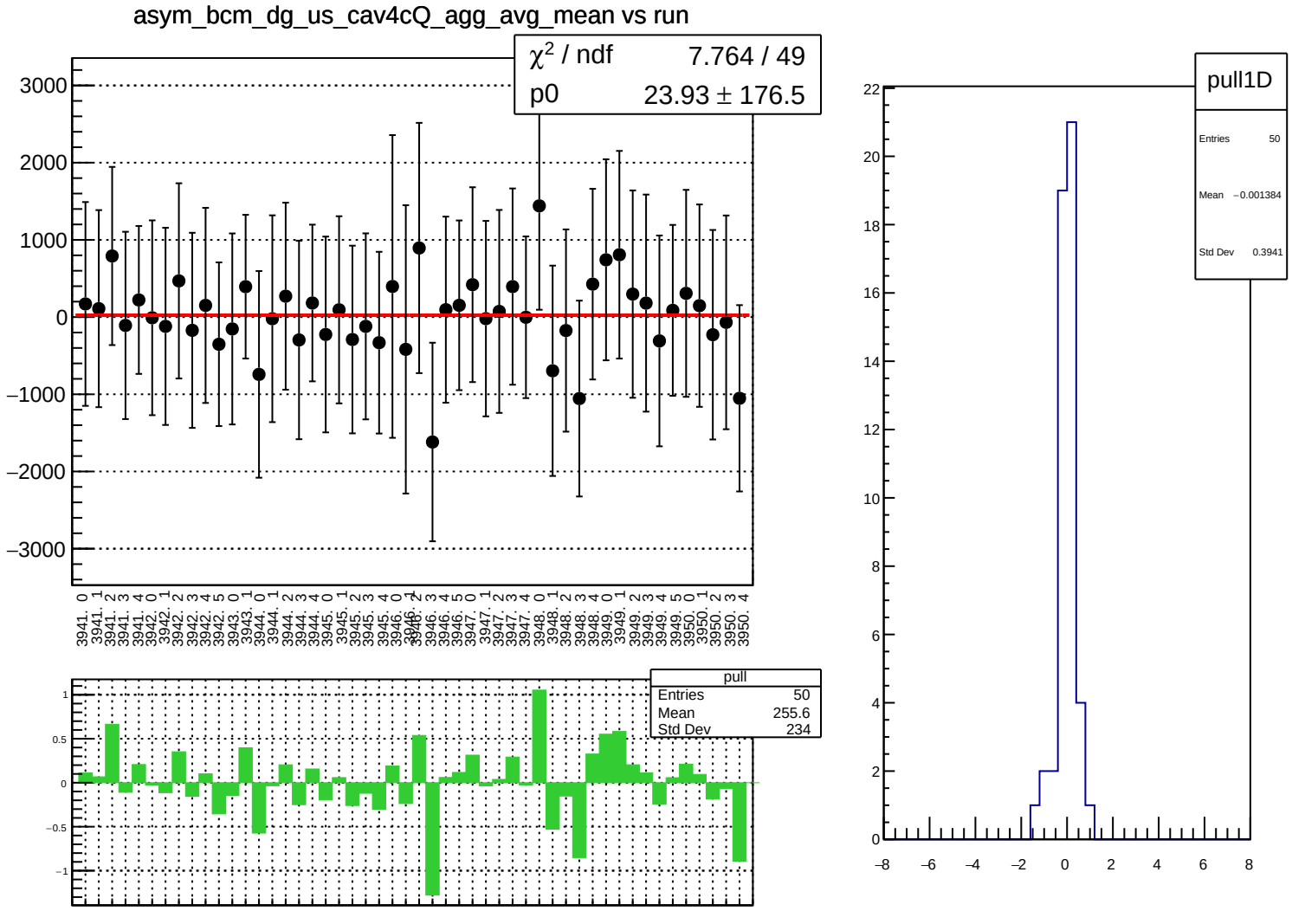
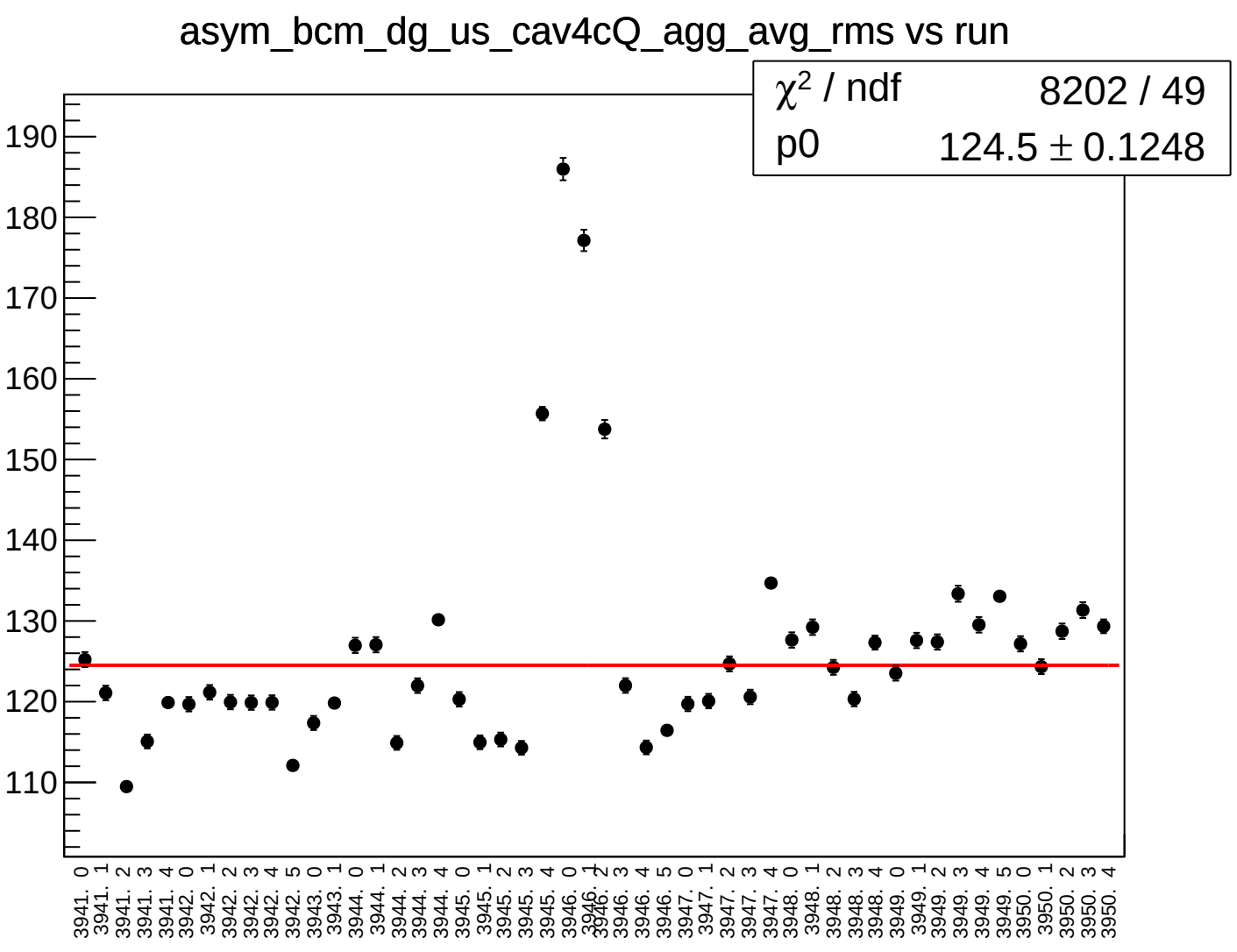
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_bcm_dg_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 7.764 / 49
p0 23.93 ± 176.5
pull
Entries 50
Mean 255.6
Std Dev 234
pull1D
Entries 50
Mean −0.001384
Std Dev 0.3941


asym_bcm_dg_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 8202 / 49
p0 124.5 ± 0.1248
190
180
170
160
150
140
130
120
110
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
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3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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3949. 3
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3950. 0
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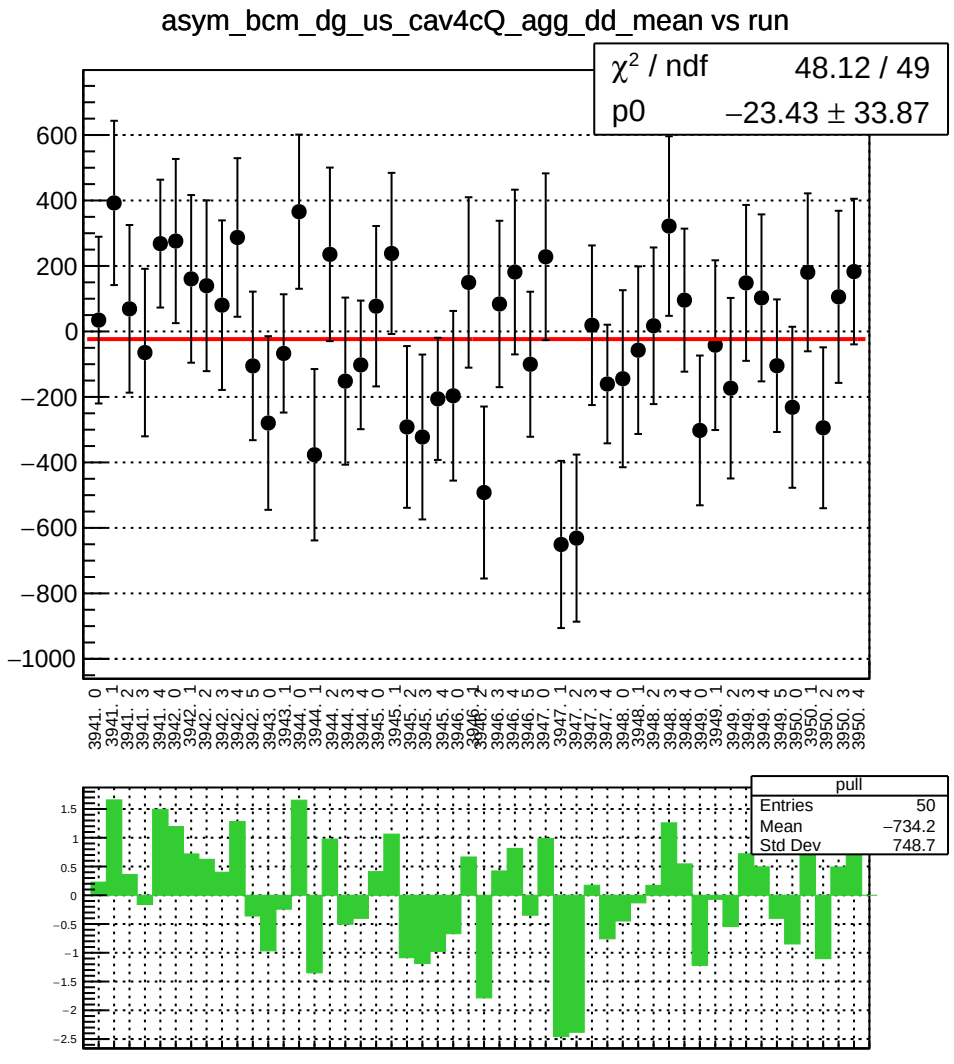
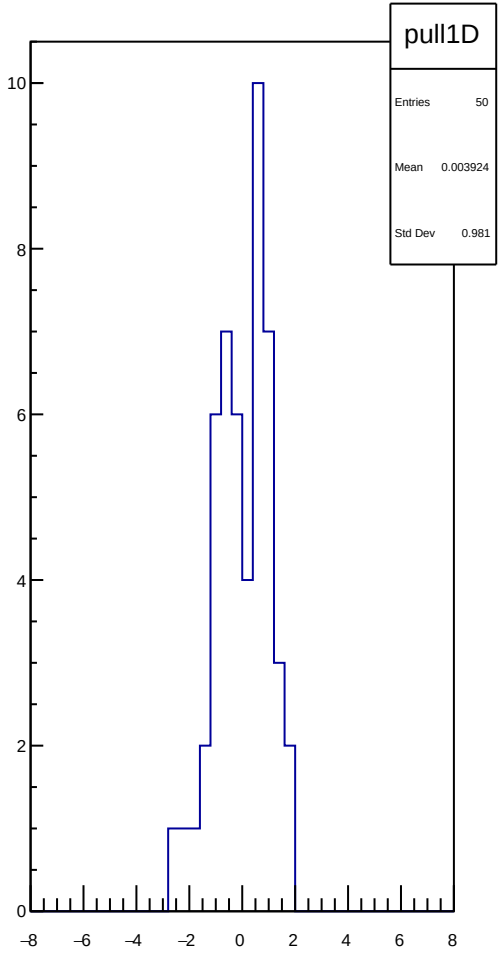
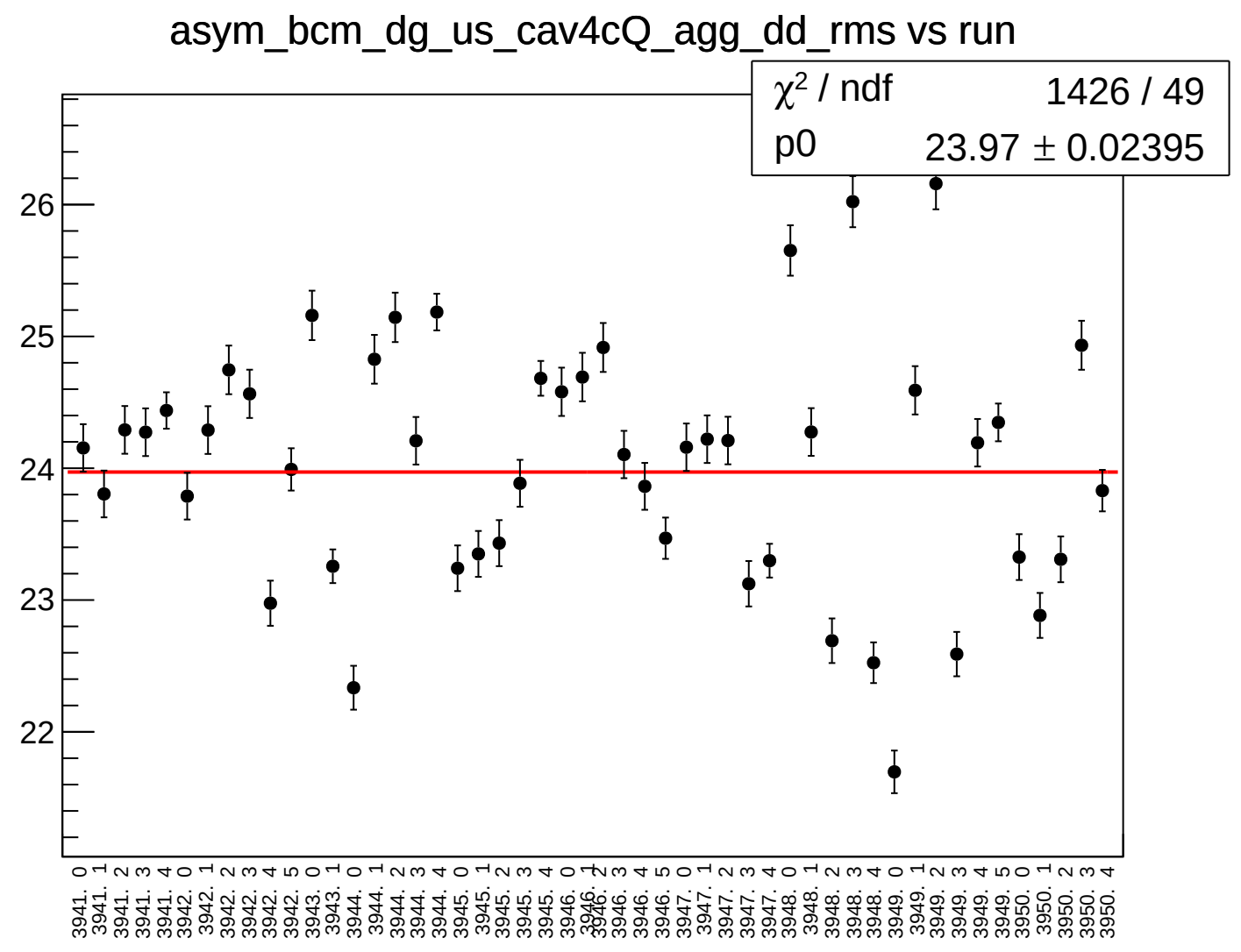
3950. 2
3950. 3
3950. 4


asym_bcm_dg_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 48.12 / 49
p0 −23.43 ± 33.87
pull
Entries 50
Mean −734.2
Std Dev 748.7


pull1D
Entries 50
Mean 0.003924
Std Dev 0.981


asym_bcm_dg_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 1426 / 49
p0 23.97 ± 0.02395
26
25
24
23
22
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
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3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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3949. 4
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3950. 0
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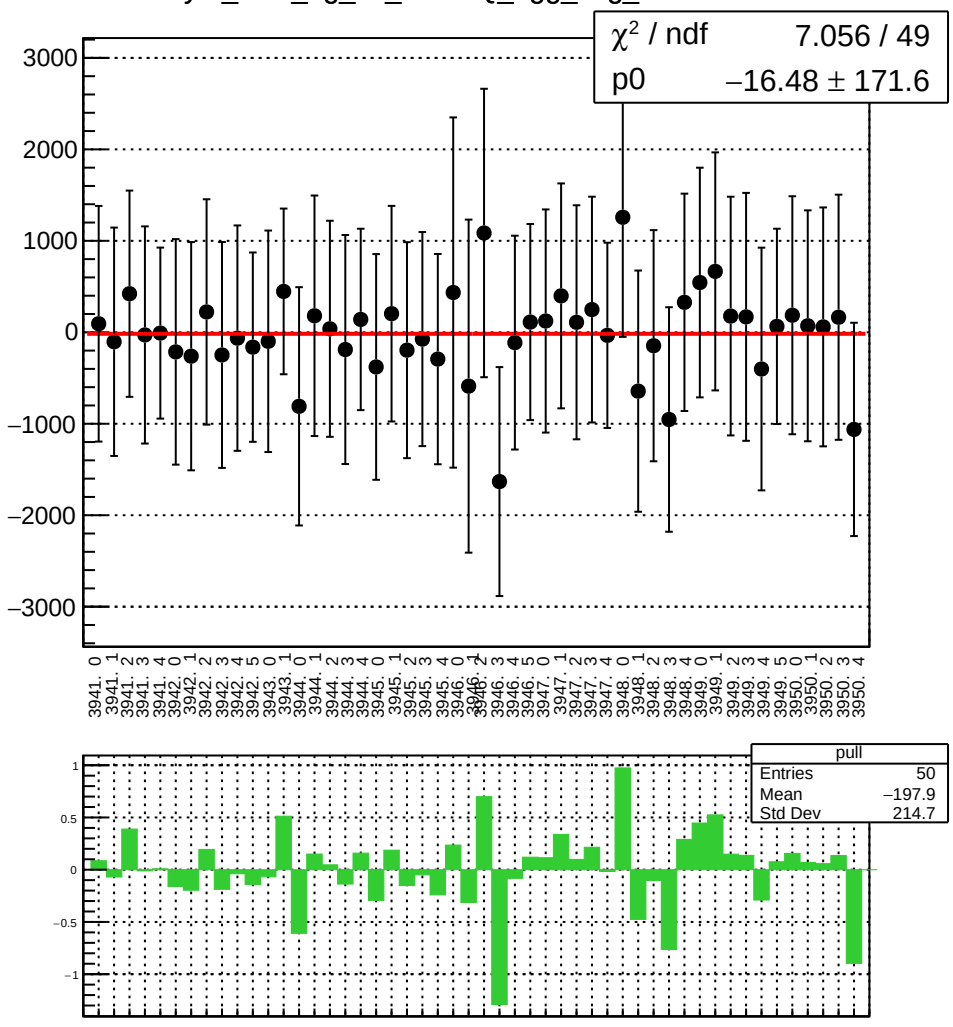
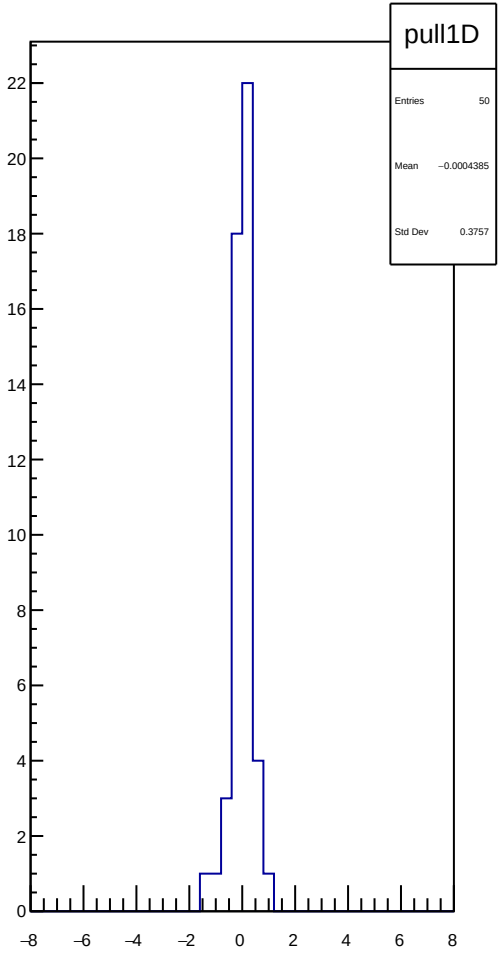
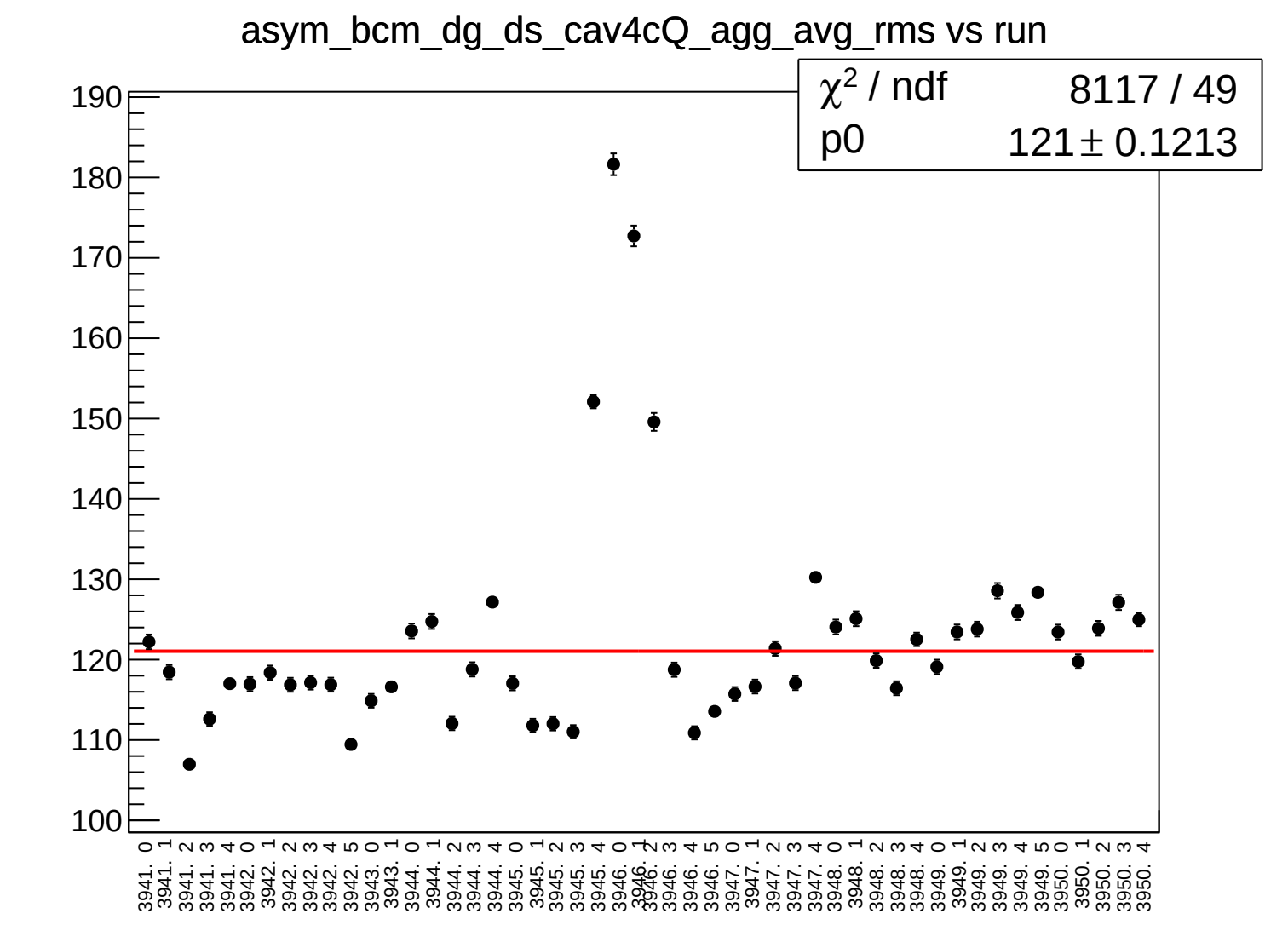
3950. 2
3950. 3
3950. 4


asym_bcm_dg_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 7.056 / 49
p0 −16.48 ± 171.6
pull
Entries 50
Mean −197.9
Std Dev 214.7


pull1D
Entries 50
Mean −0.0004385
Std Dev 0.3757


asym_bcm_dg_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 8117 / 49
p0 121 ± 0.1213
190
180
170
160
150
140
130
120
110
100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
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3945. 0
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3945. 2
3945. 3
3945. 4
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3946. 2
3946. 3
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3946. 5
3947. 0
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3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 3
3949. 4
3949. 5
3950. 0
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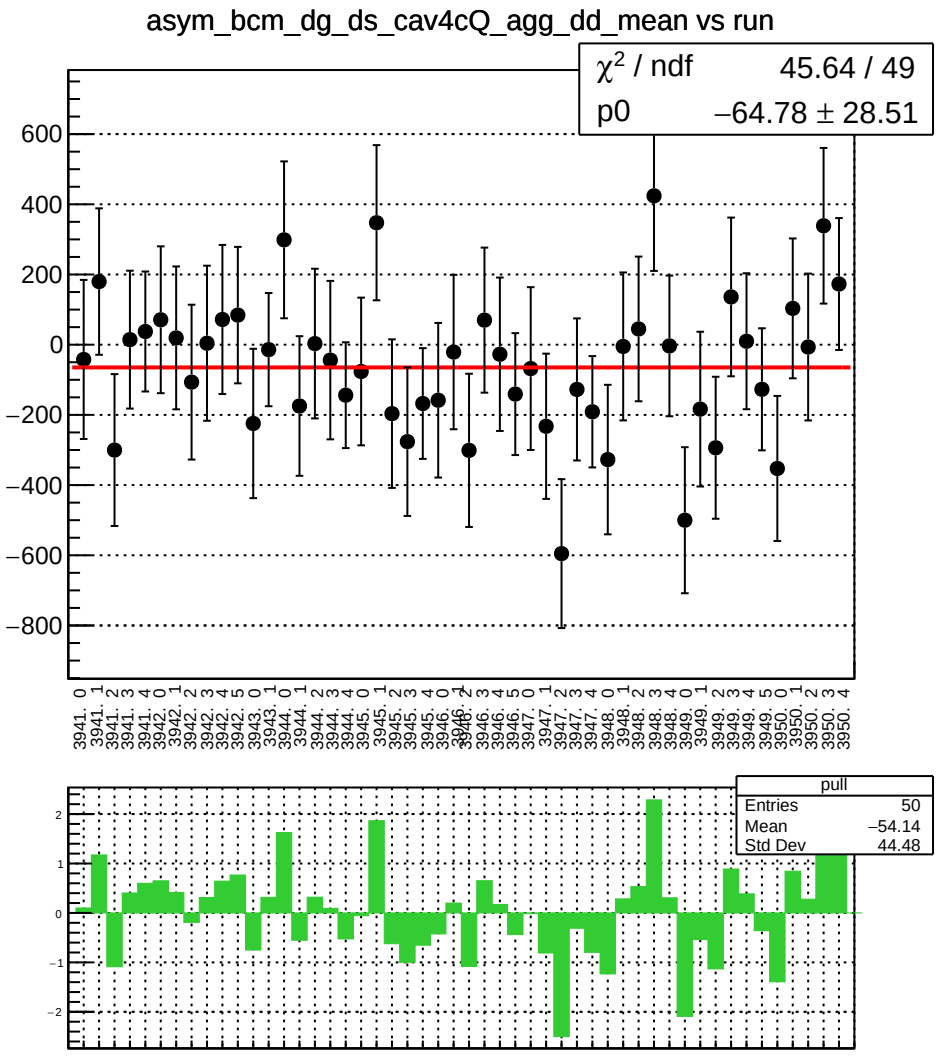
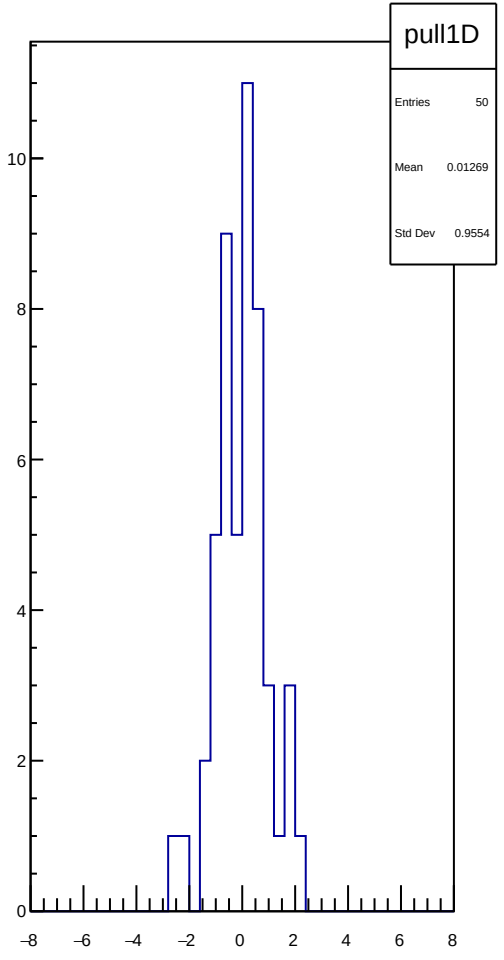
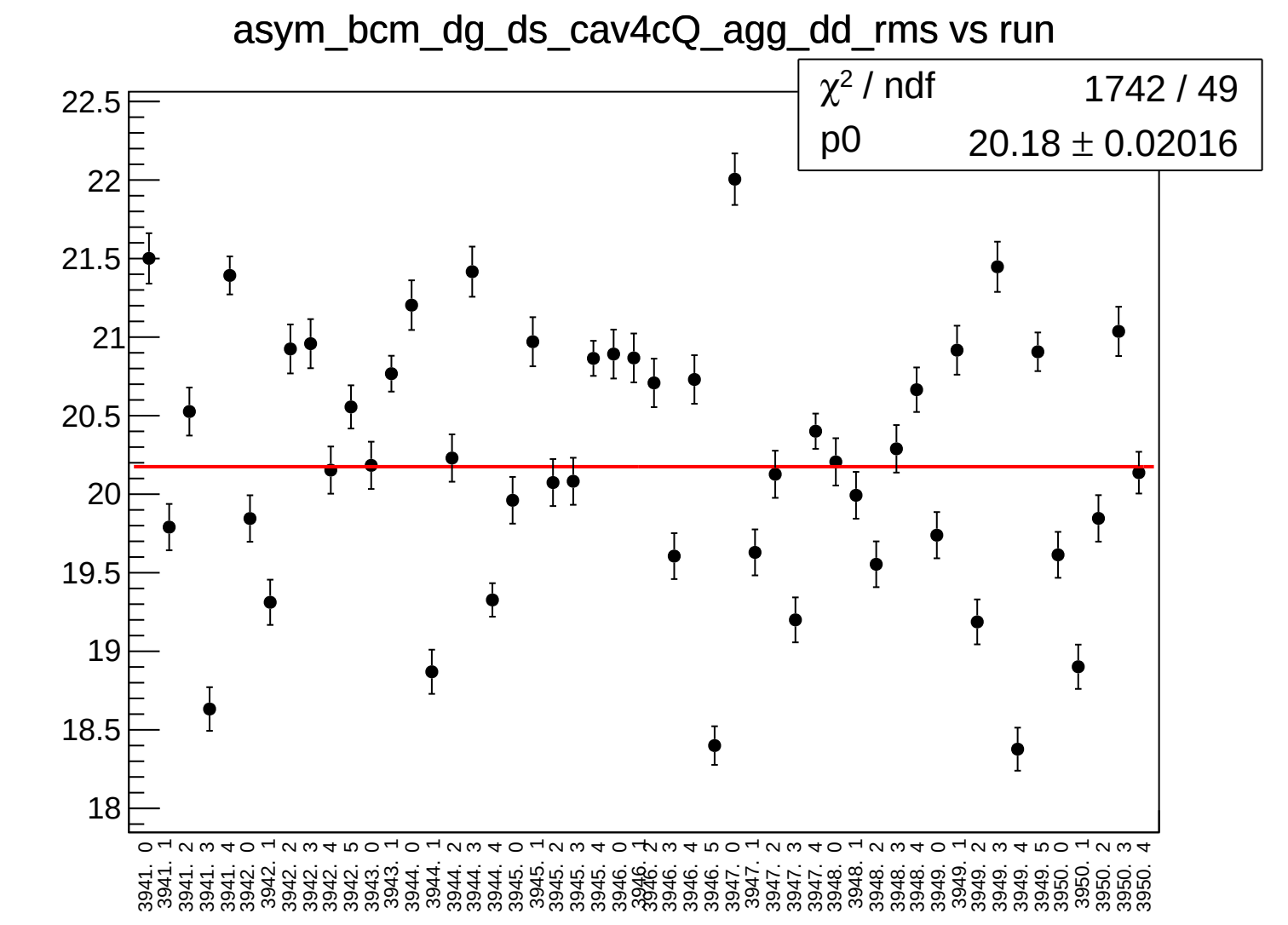
3950. 2
3950. 3
3950. 4


asym_bcm_dg_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 45.64 / 49
p0 −64.78 ± 28.51
pull
Entries 50
Mean −54.14
Std Dev 44.48


pull1D
Entries 50
Mean 0.01269
Std Dev 0.9554


asym_bcm_dg_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 1742 / 49
p0 20.18 ± 0.02016
22.5
22
21.5
21
20.5
20
19.5
19
18.5
18
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 3
3949. 4
3949. 5
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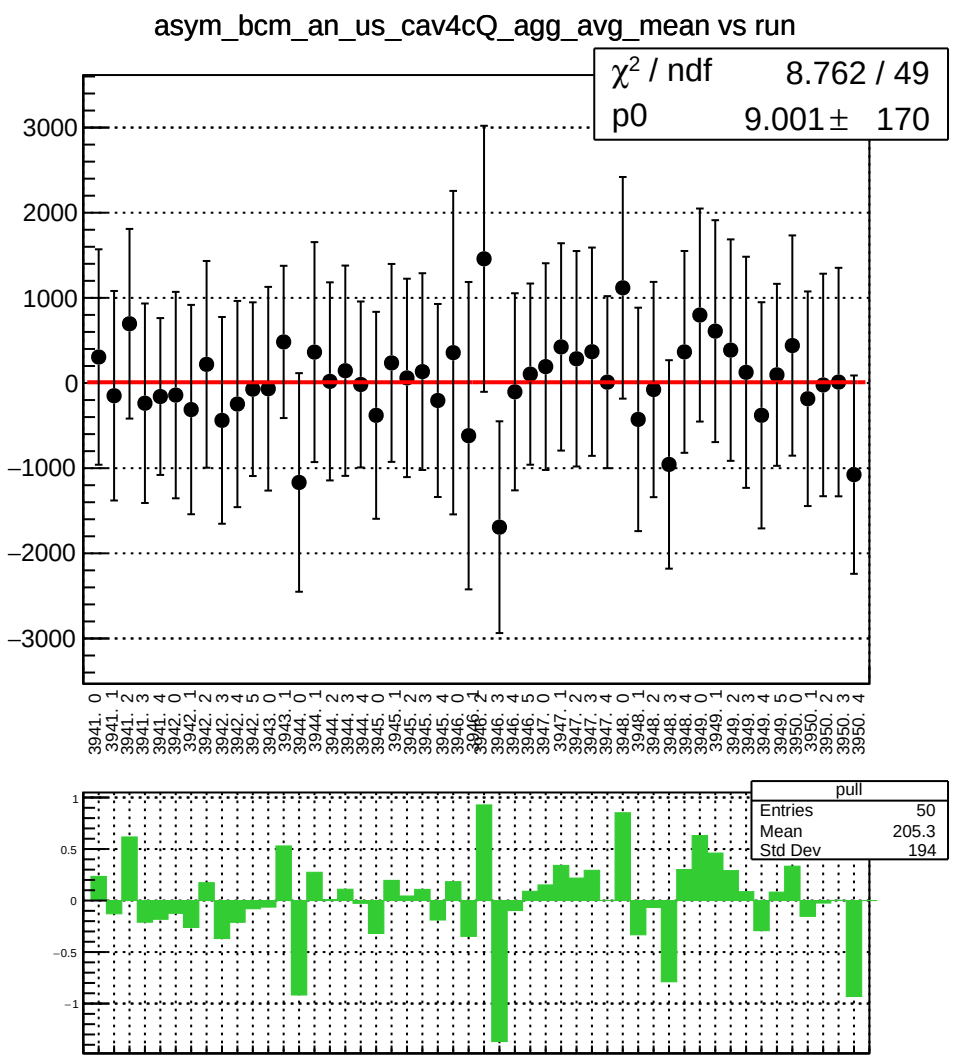
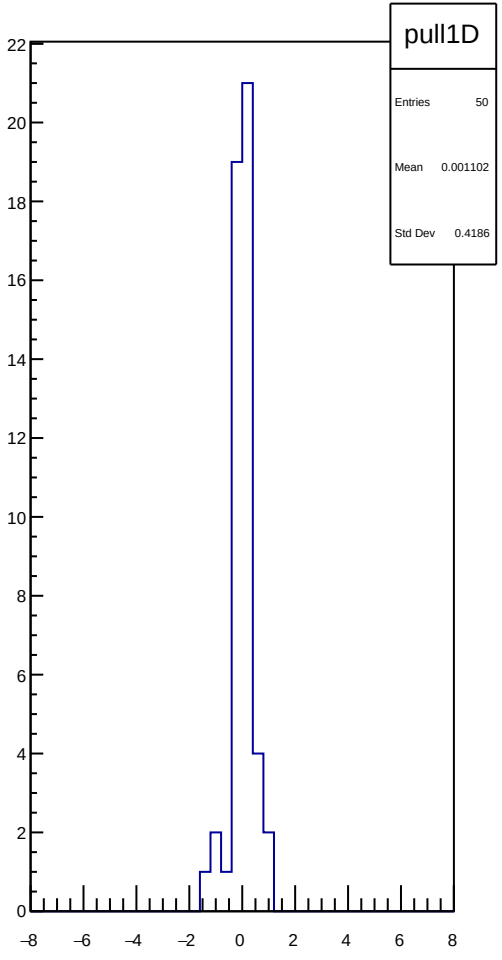
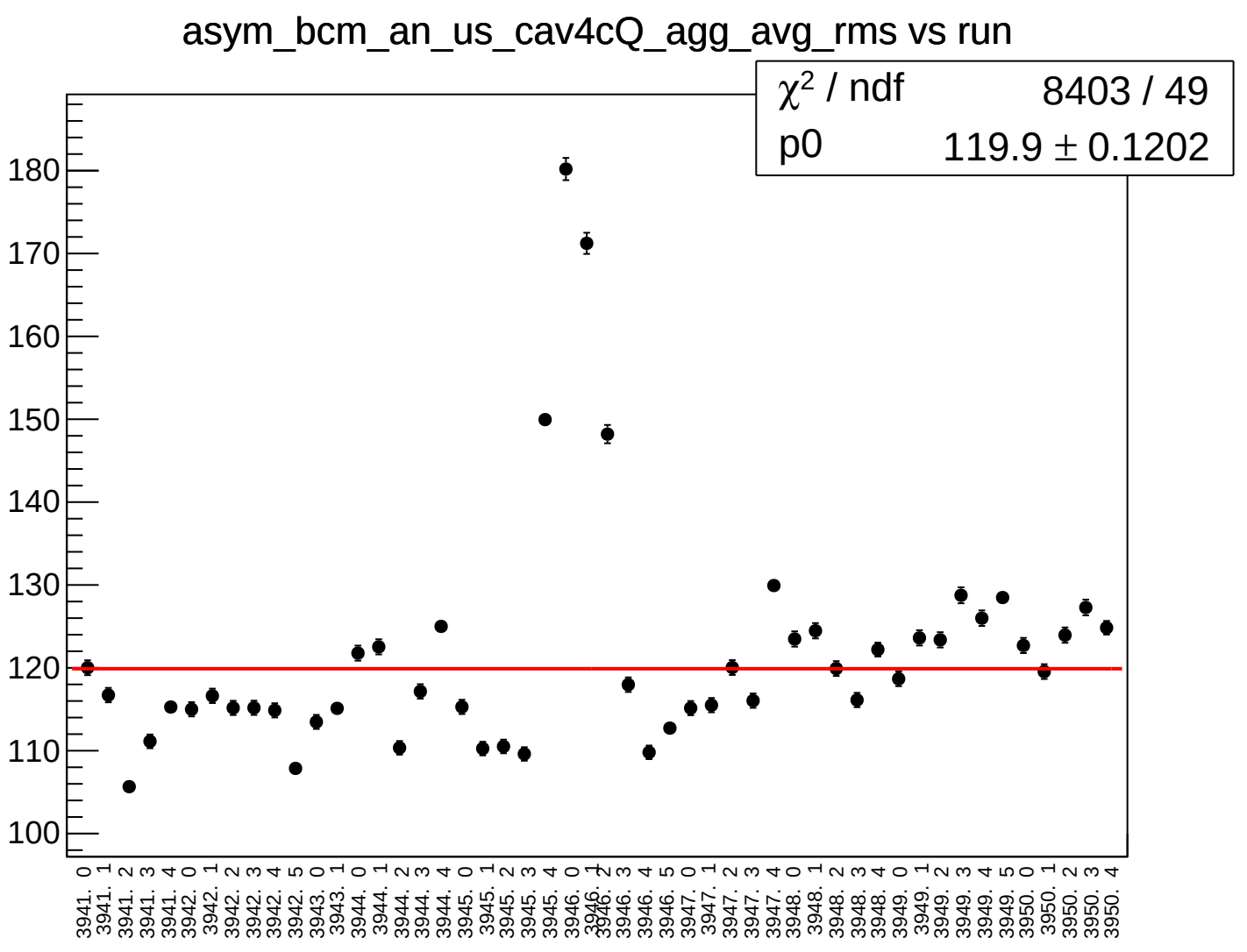
3950. 1
3950. 2
3950. 3
3950. 4


asym_bcm_an_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 8.762 / 49
p0 9.001± 170
pull
Entries 50
Mean 205.3
Std Dev 194


pull1D
Entries 50
Mean 0.001102
Std Dev 0.4186


asym_bcm_an_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 8403 / 49
p0 119.9 ± 0.1202
180
170
160
150
140
130
120
110
100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
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3944. 3
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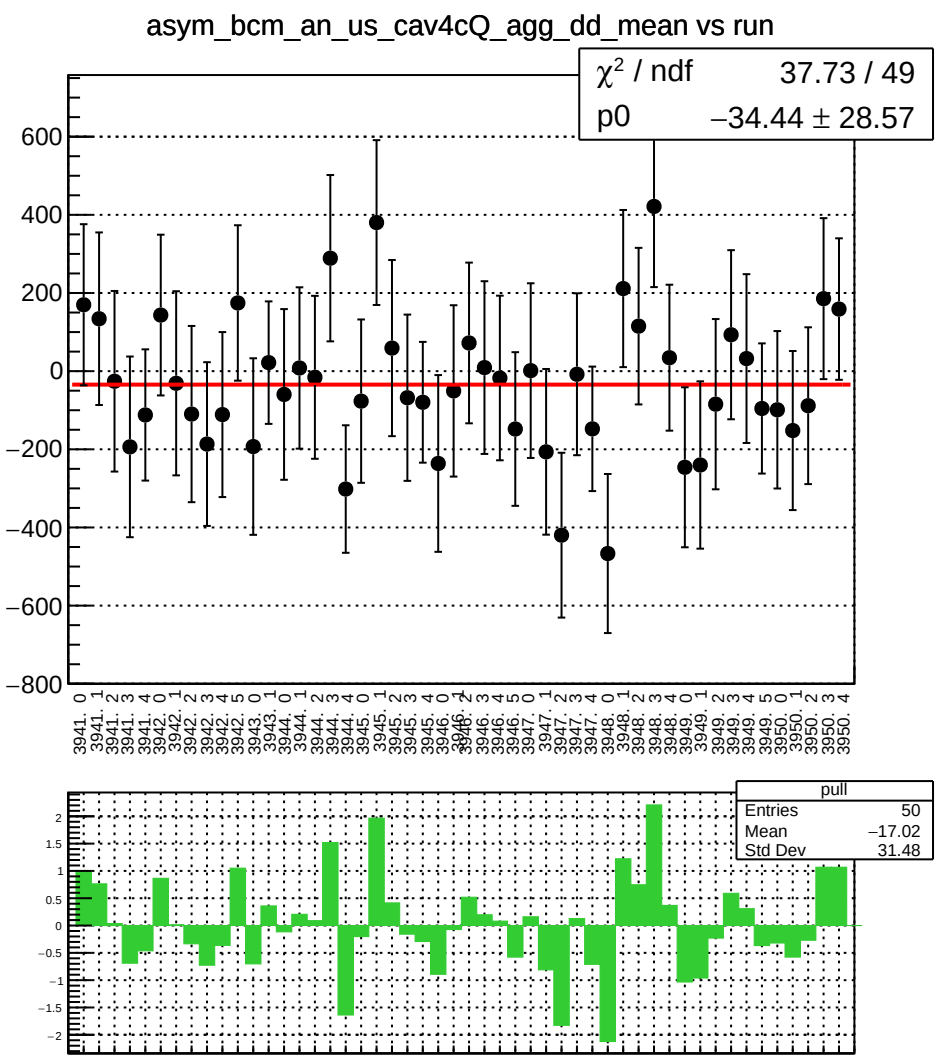
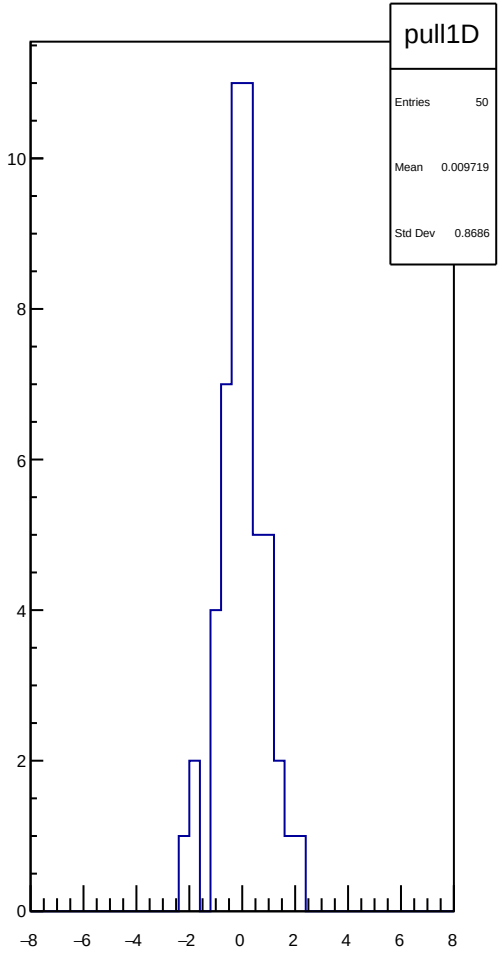
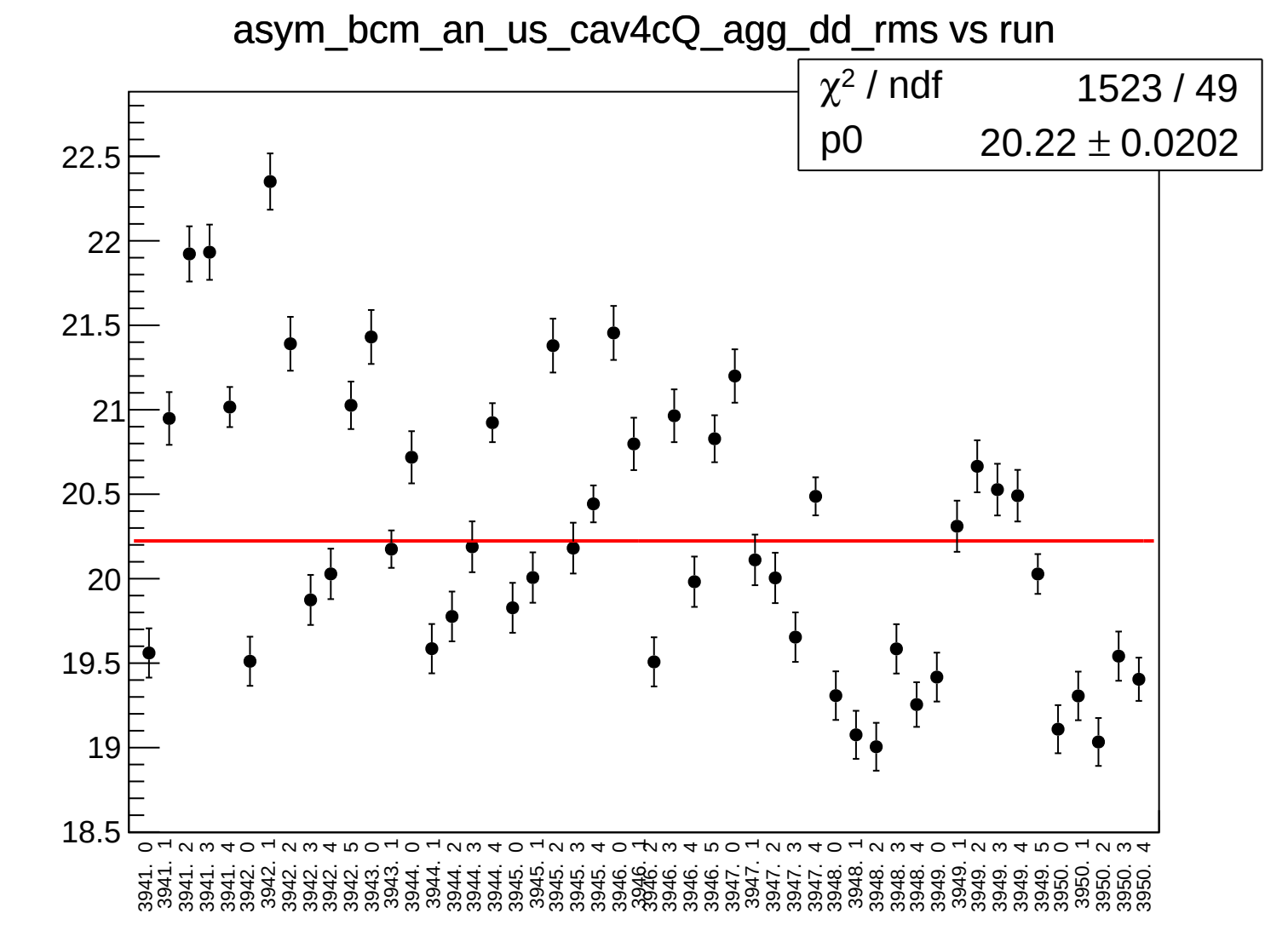
3950. 4


asym_bcm_an_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 37.73 / 49
p0 −34.44 ± 28.57
pull
Entries 50
Mean −17.02
Std Dev 31.48


pull1D
Entries 50
Mean 0.009719
Std Dev 0.8686


asym_bcm_an_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 1523 / 49
p0 20.22 ± 0.0202
22.5
22
21.5
21
20.5
20
19.5
19
18.5
3941. 0
3941. 1
3941. 2
3941. 3
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3942. 0
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3942. 2
3942. 3
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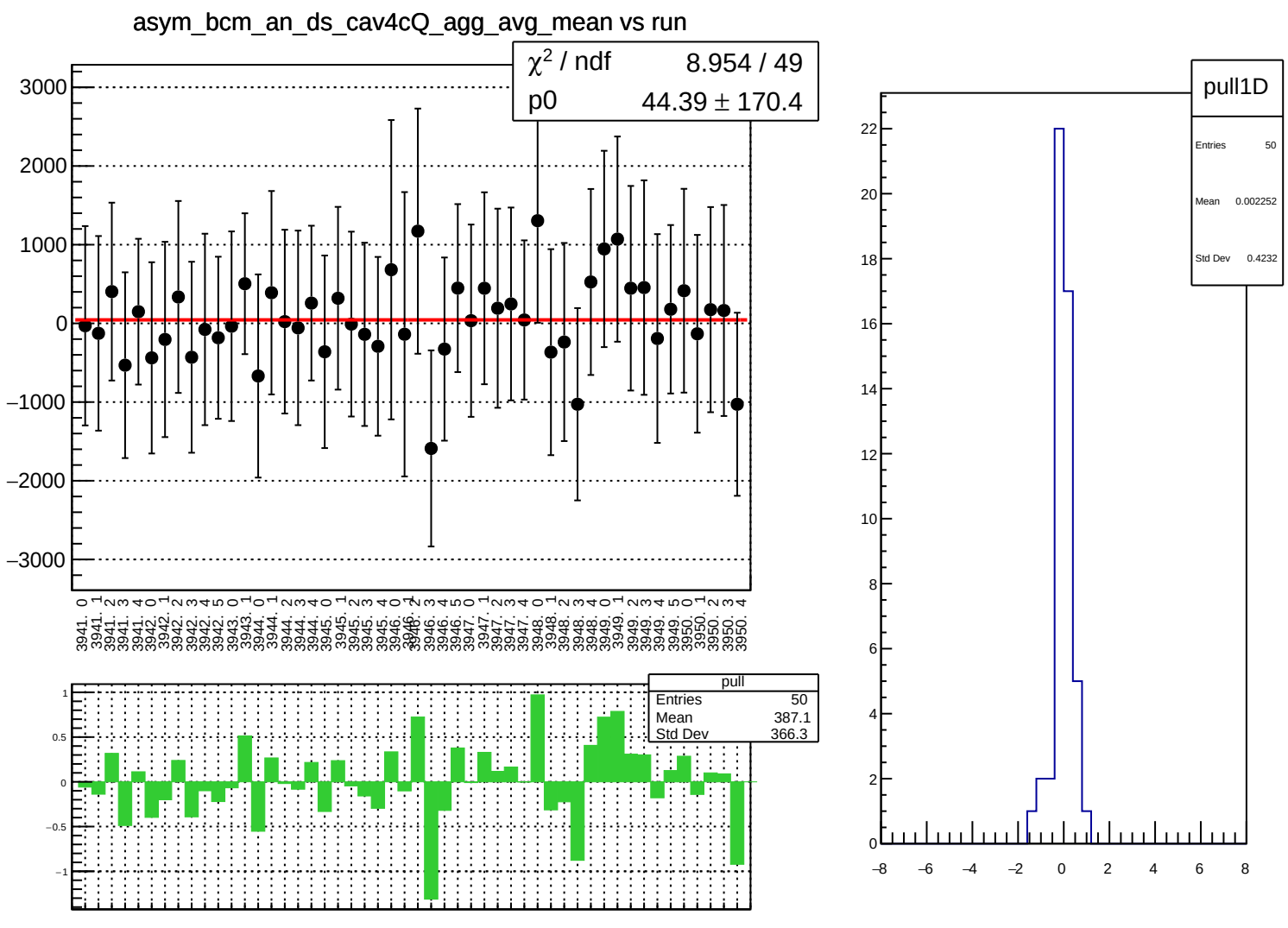
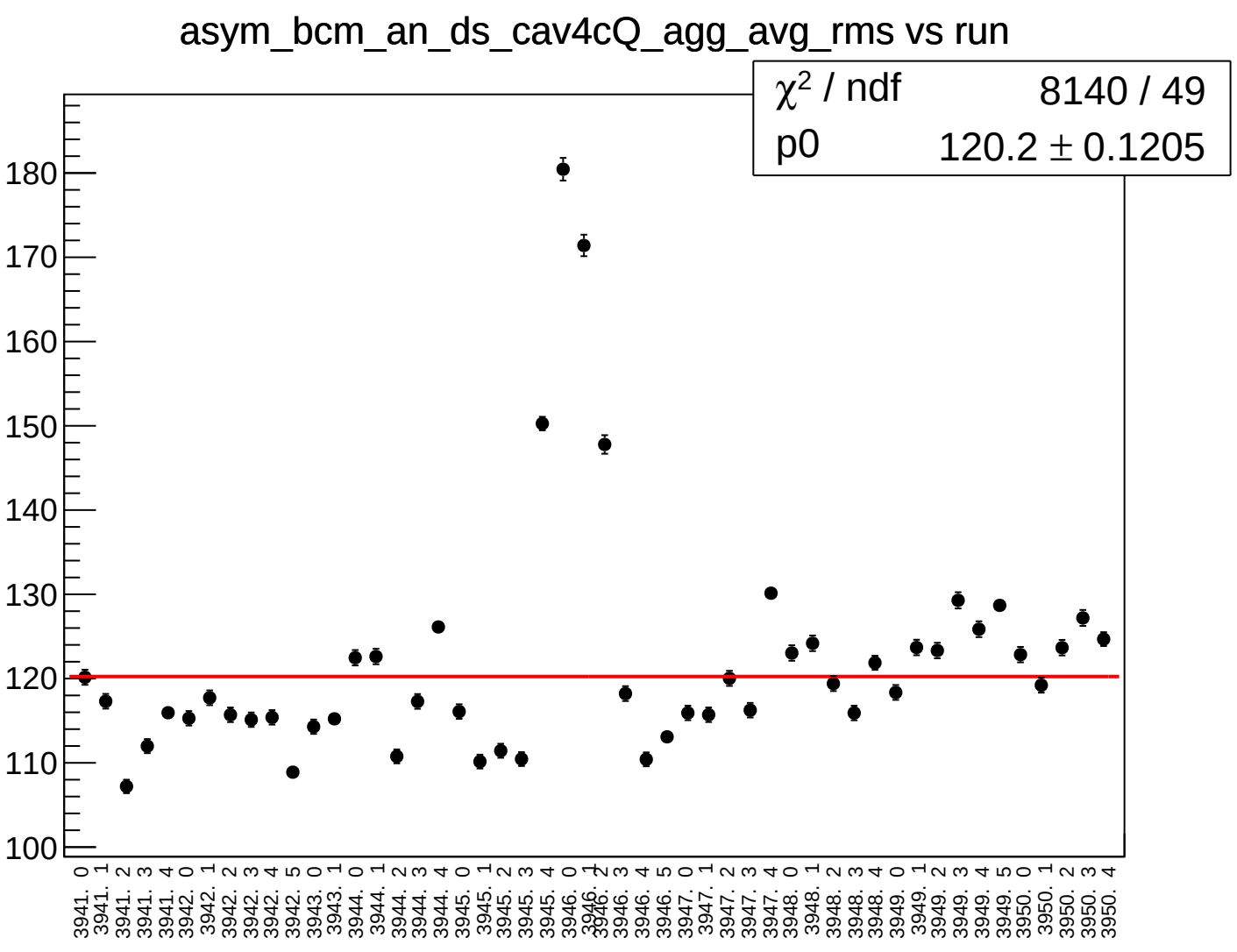
3950. 4


asym_bcm_an_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 8.954 / 49
p0 44.39 ± 170.4
pull
Entries 50
Mean 387.1
Std Dev 366.3
pull1D
Entries 50
Mean 0.002252
Std Dev 0.4232


asym_bcm_an_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 8140 / 49
p0 120.2 ± 0.1205
180
170
160
150
140
130
120
110
100
3941. 0
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3941. 4
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3942. 1
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3942. 5
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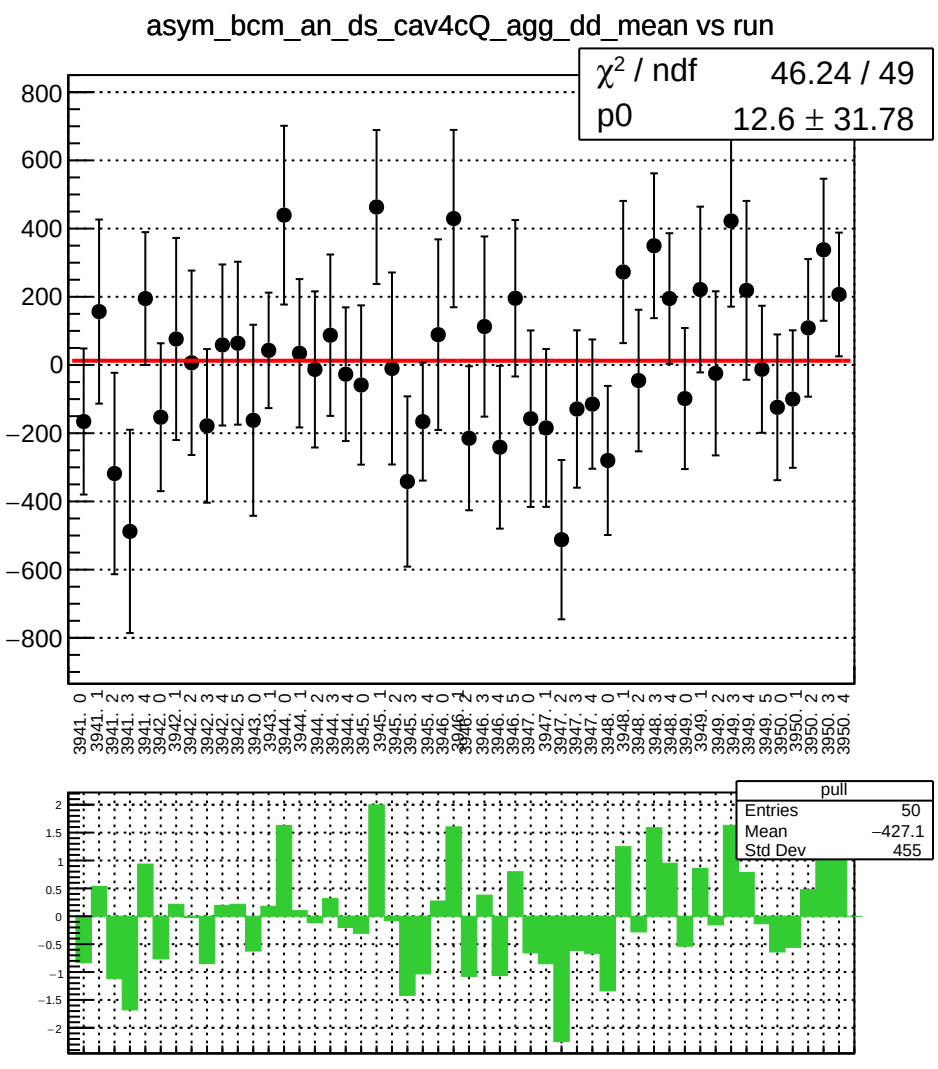
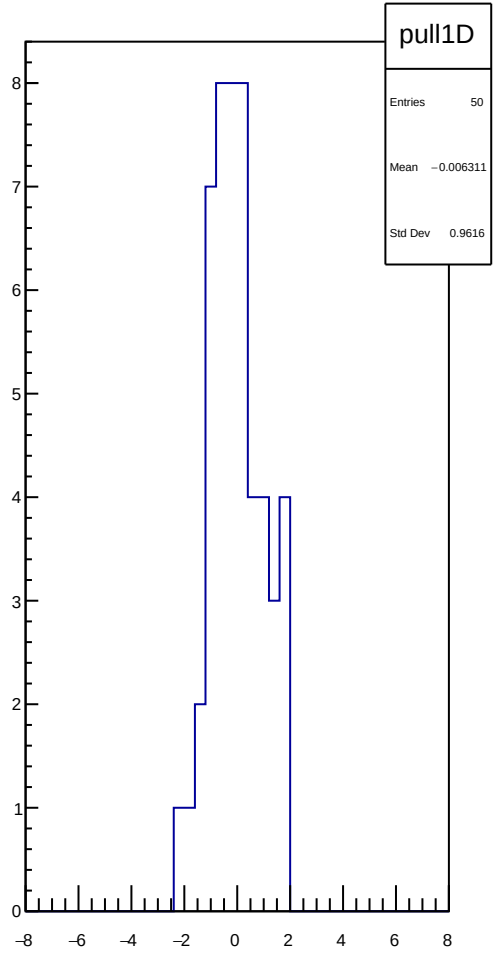
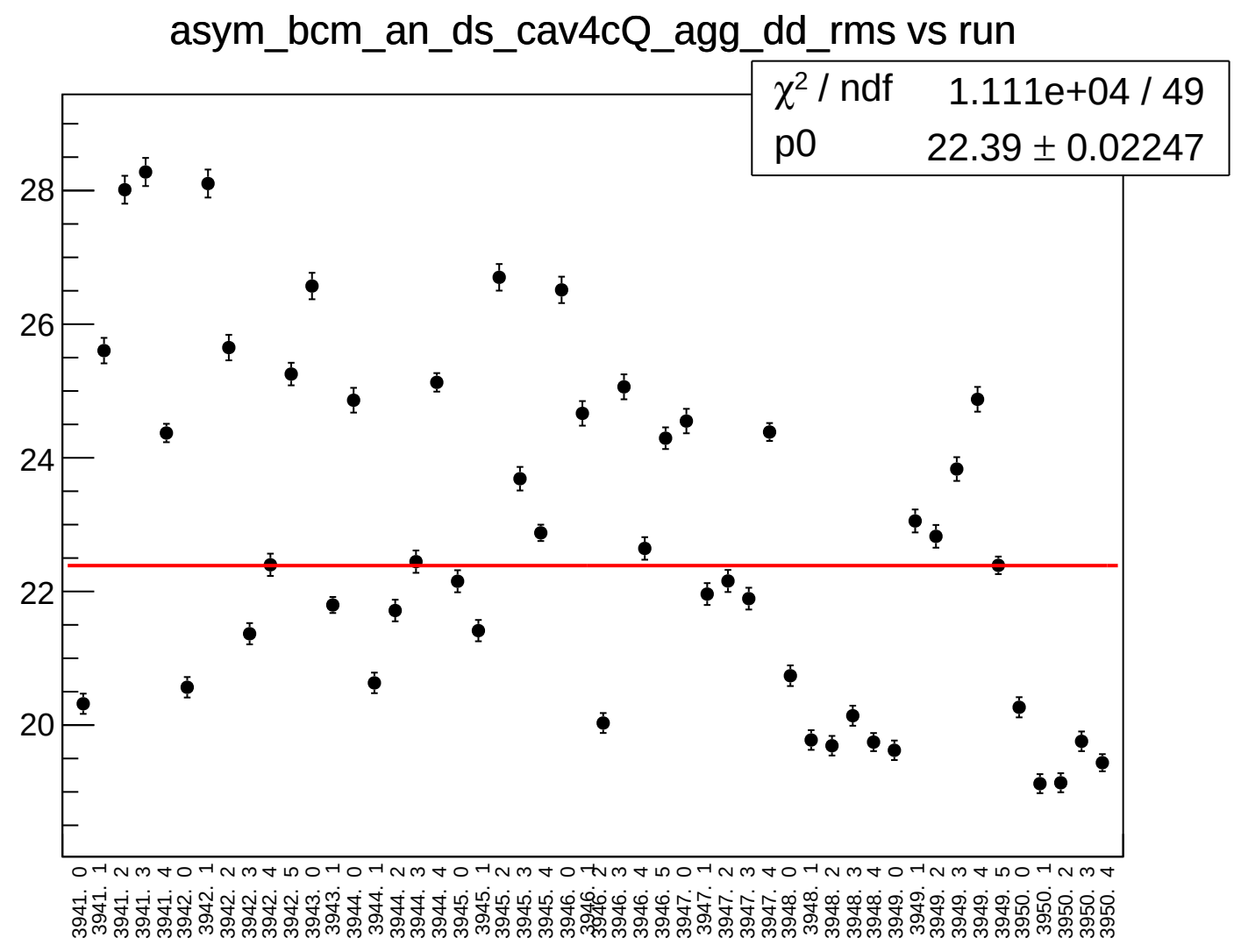
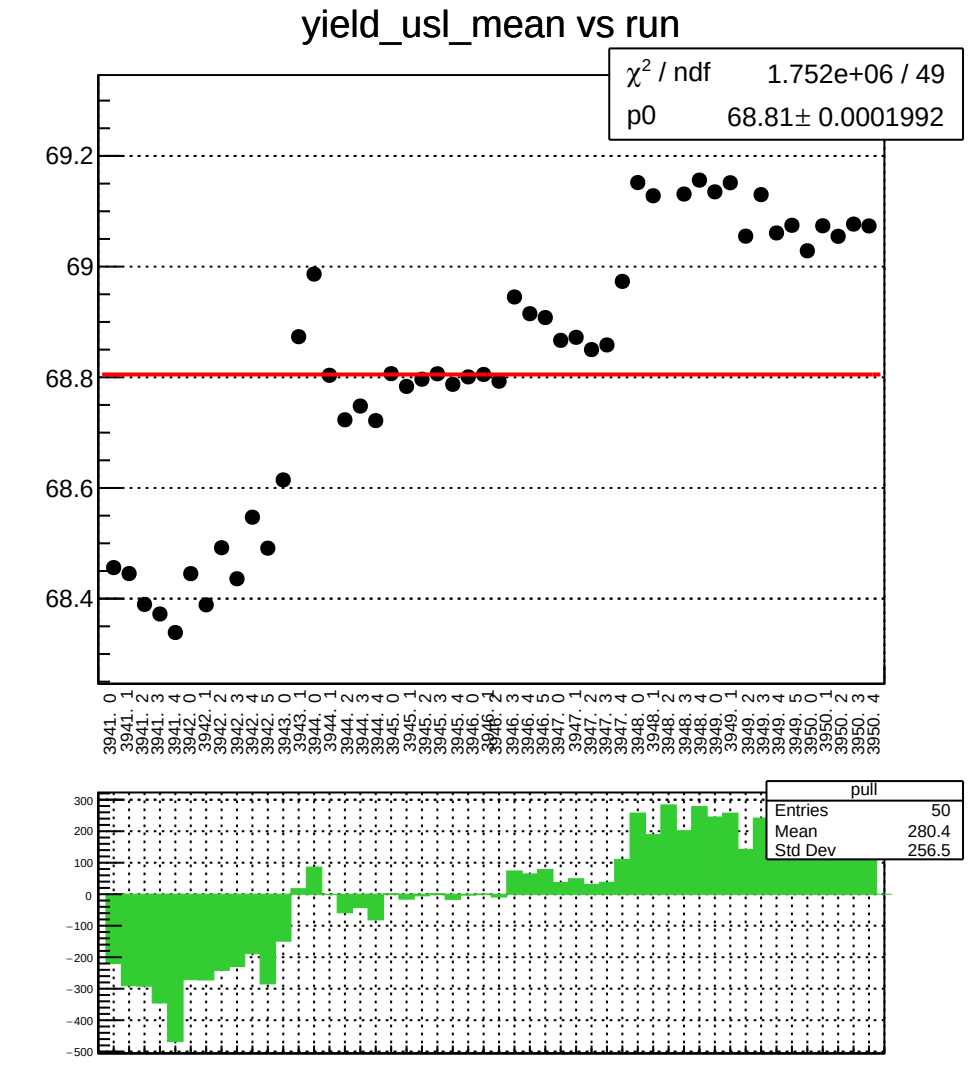
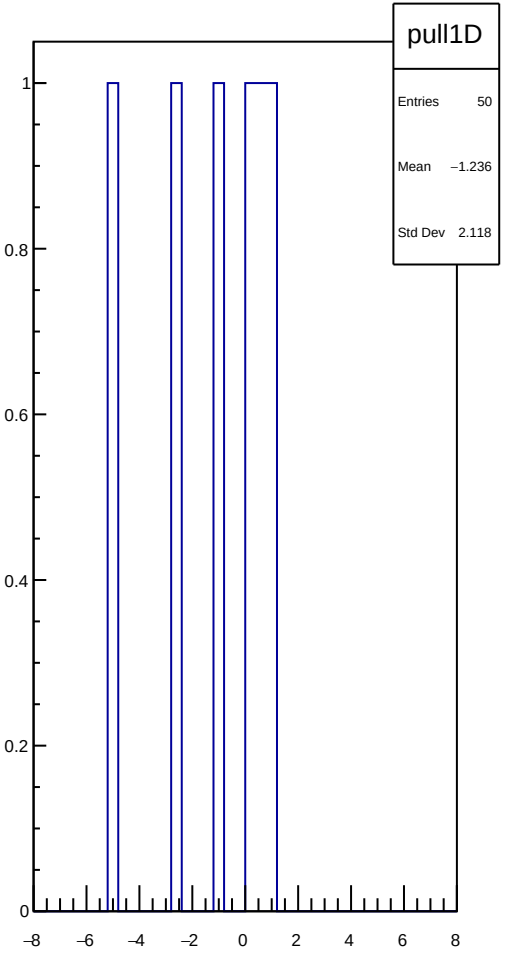
3950. 4

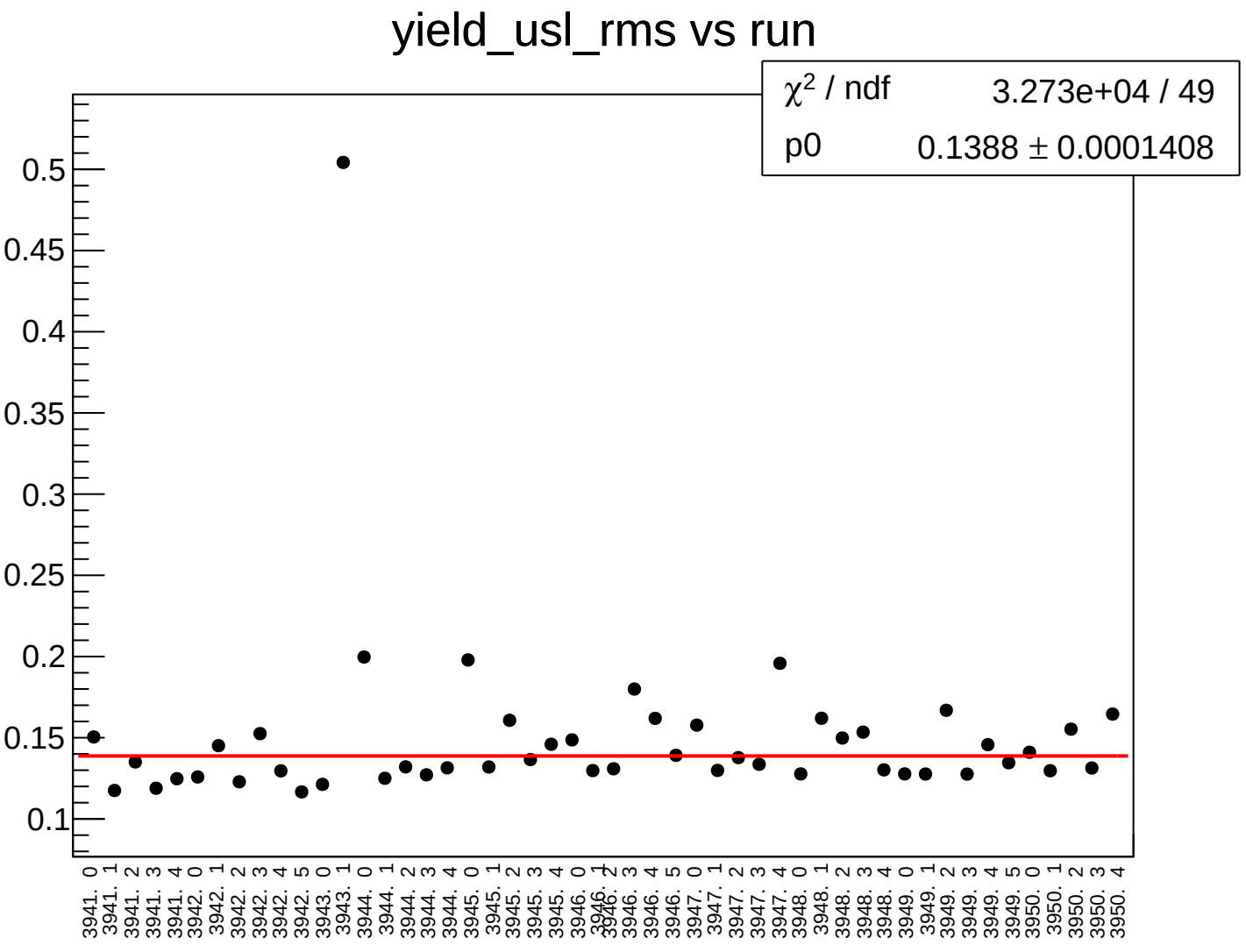

asym_bcm_an_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 46.24 / 49
p0 12.6 ± 31.78
pull
Entries 50
Mean −427.1
Std Dev 455

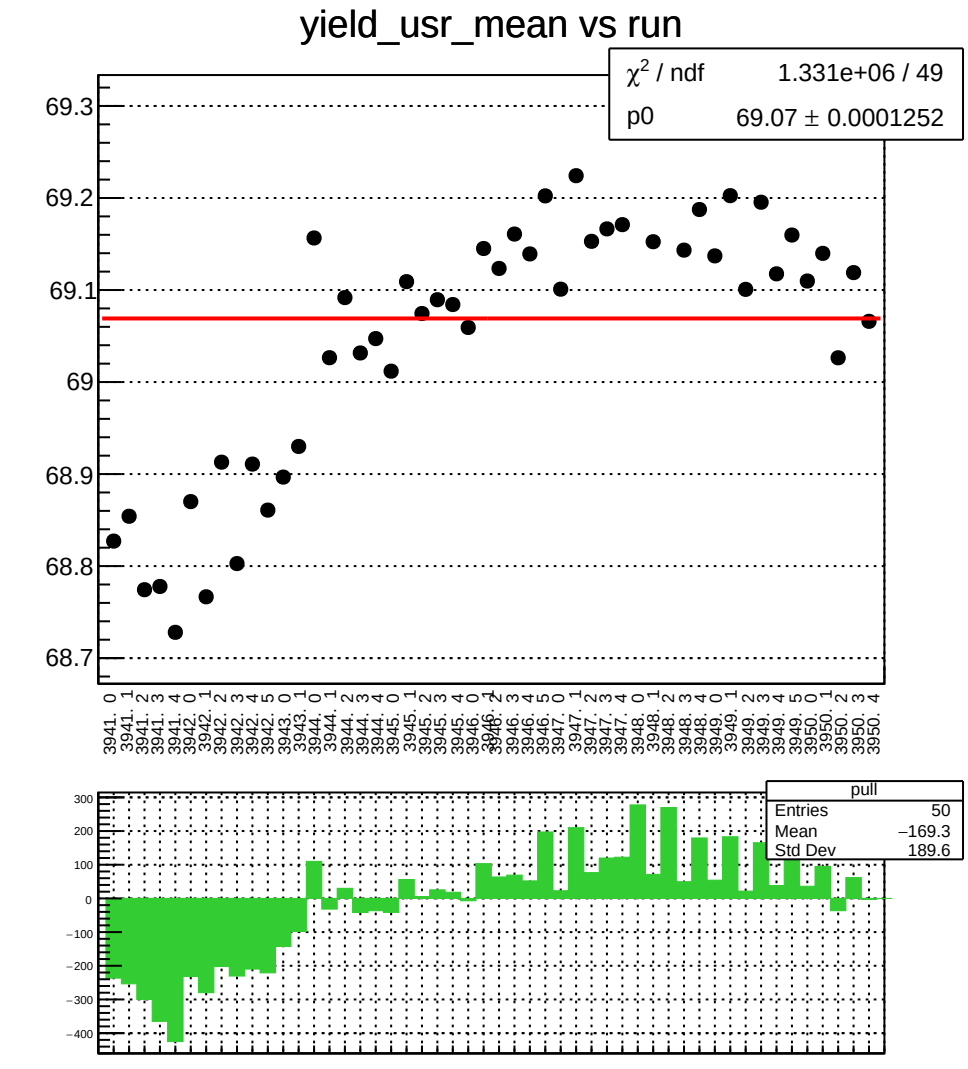

pull1D
Entries 50
Mean −0.006311
Std Dev 0.9616

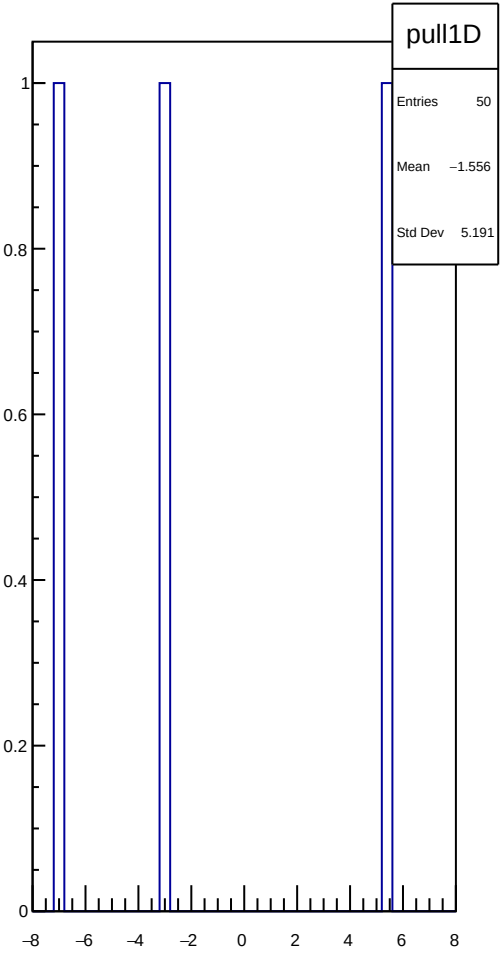

asym_bcm_an_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 1.111e+04 / 49
p0 22.39 ± 0.02247
28
26
24
22
20
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

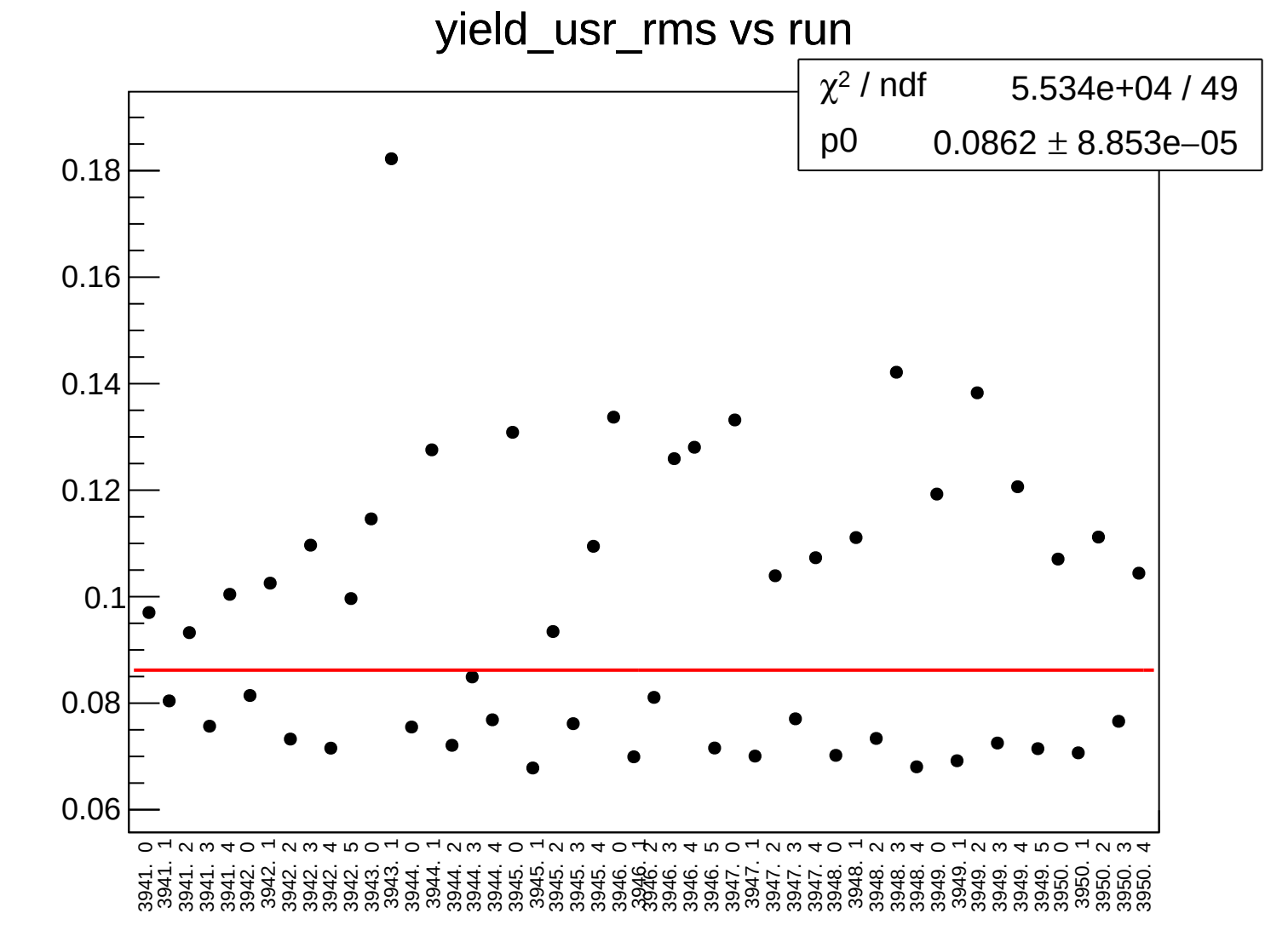

yield_usl_mean vs run
χ² / ndf 1.752e+06 / 49
p0 68.81± 0.0001992
69.2
69
68.8
68.6
68.4
pull
Entries 50
Mean 280.4
Std Dev 256.5
300
200
100
0
−100
−200
−300
−400
−500

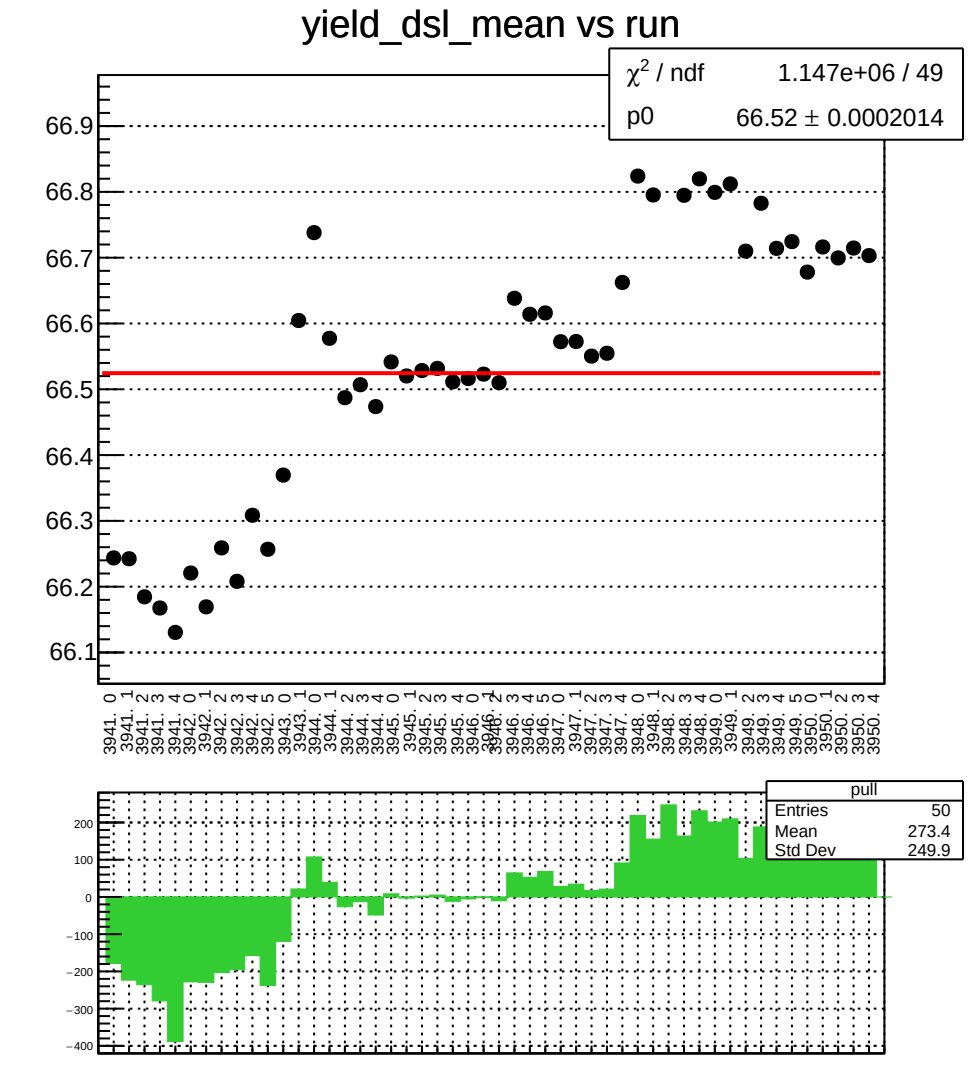

pull1D
Entries 50
Mean −1.236
Std Dev 2.118
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

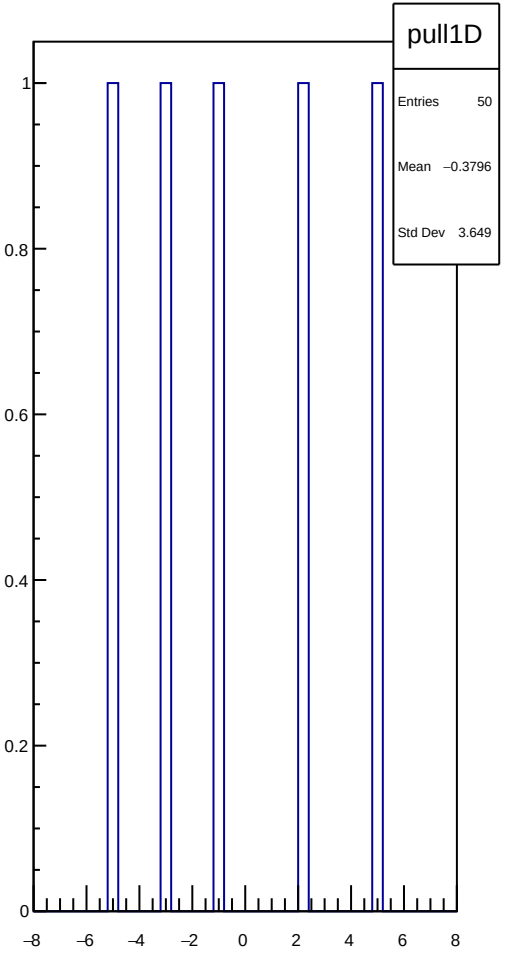

yield_usl_rms vs run
χ² / ndf 3.273e+04 / 49
p0 0.1388 ± 0.0001408
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

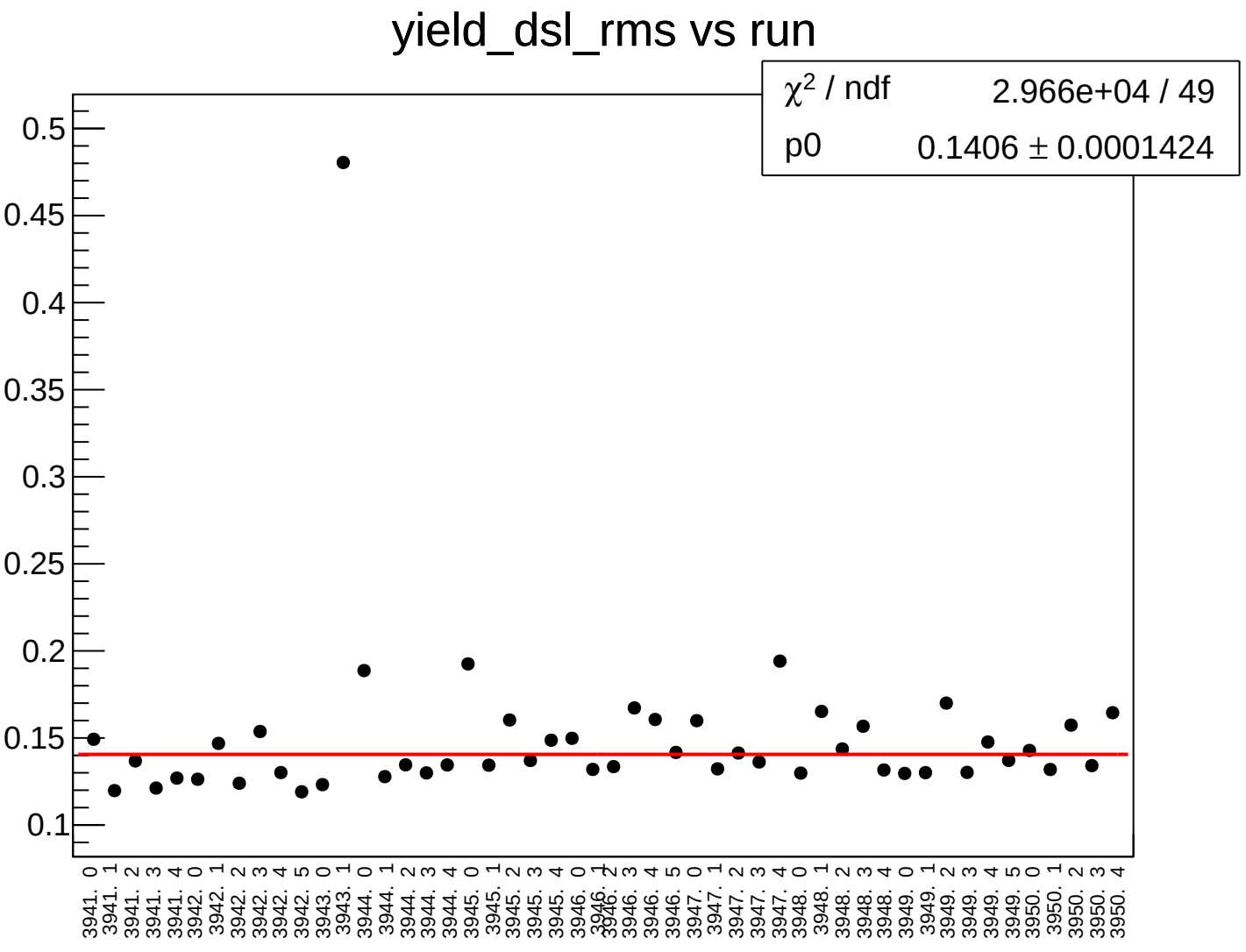

yield_usr_mean vs run
χ² / ndf 1.331e+06 / 49
p0 69.07 ± 0.0001252
pull
Entries 50
Mean −169.3
Std Dev 189.6

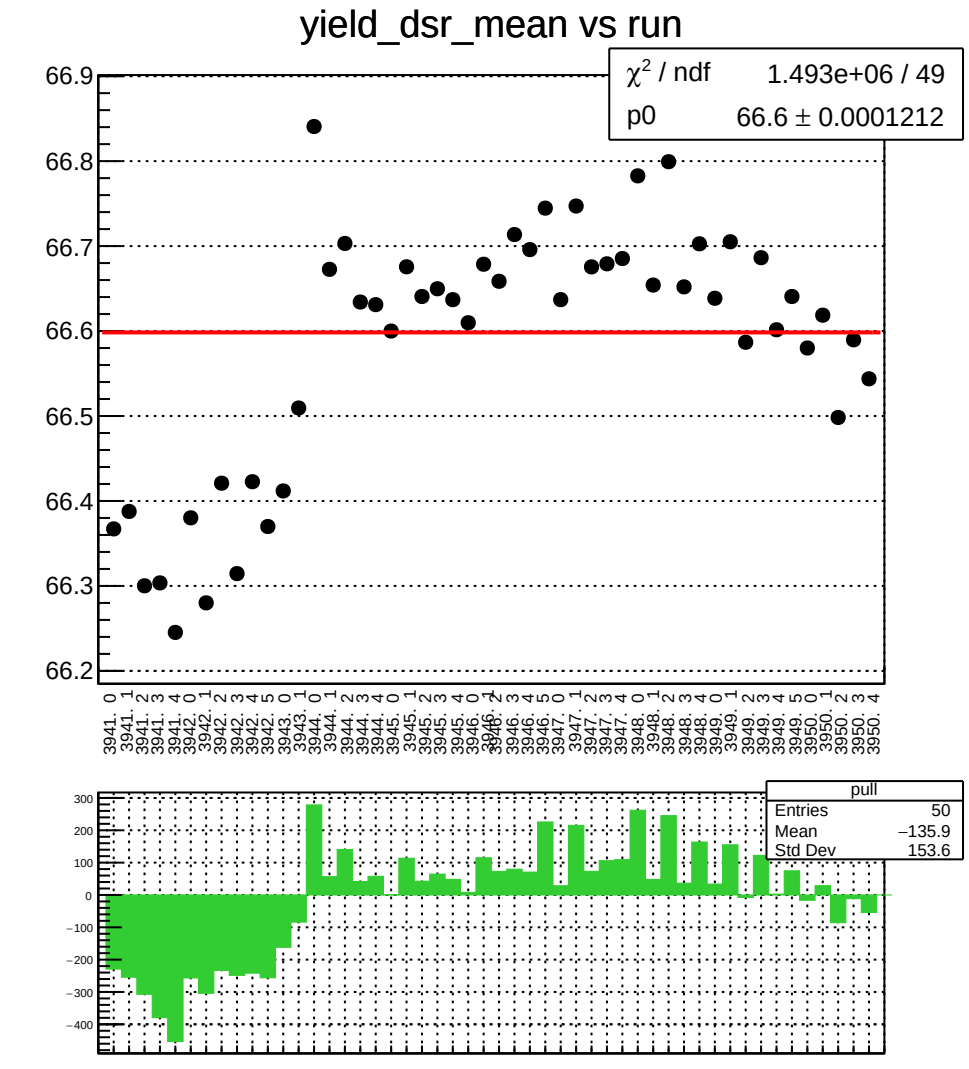

pull1D
Entries 50
Mean −1.556
Std Dev 5.191

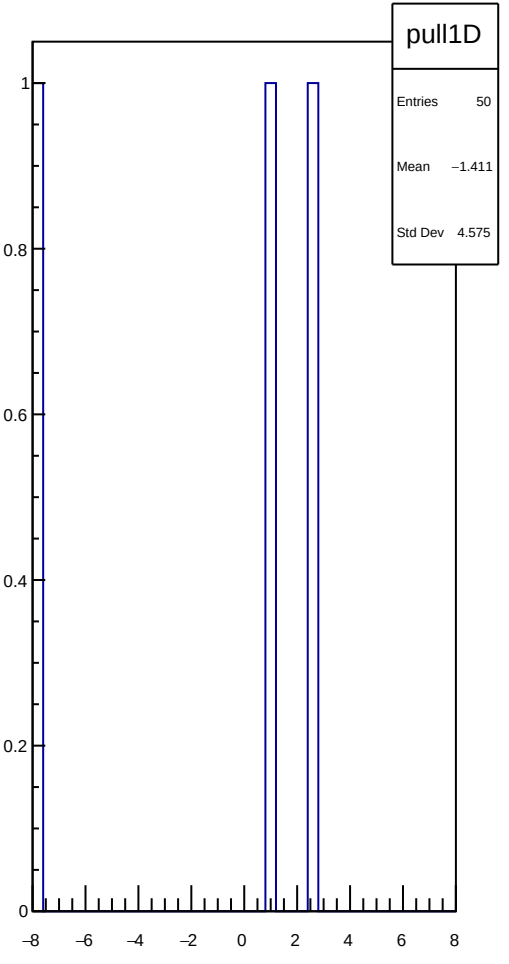

yield_usr_rms vs run
χ² / ndf 5.534e+04 / 49
p0 0.0862 ± 8.853e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

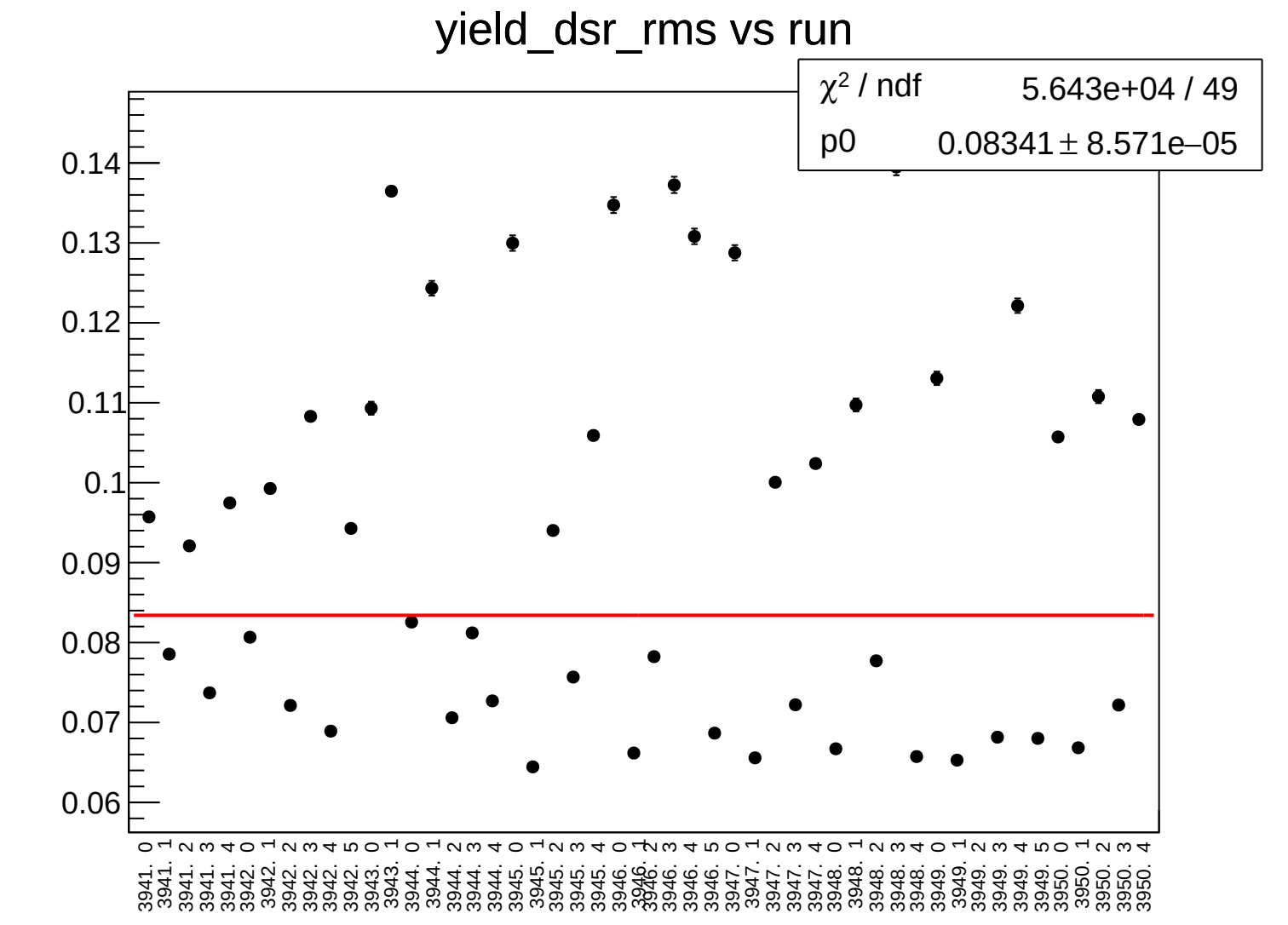

yield_dsl_mean vs run
χ² / ndf 1.147e+06 / 49
p0 66.52 ± 0.0002014
pull
Entries 50
Mean 273.4
Std Dev 249.9

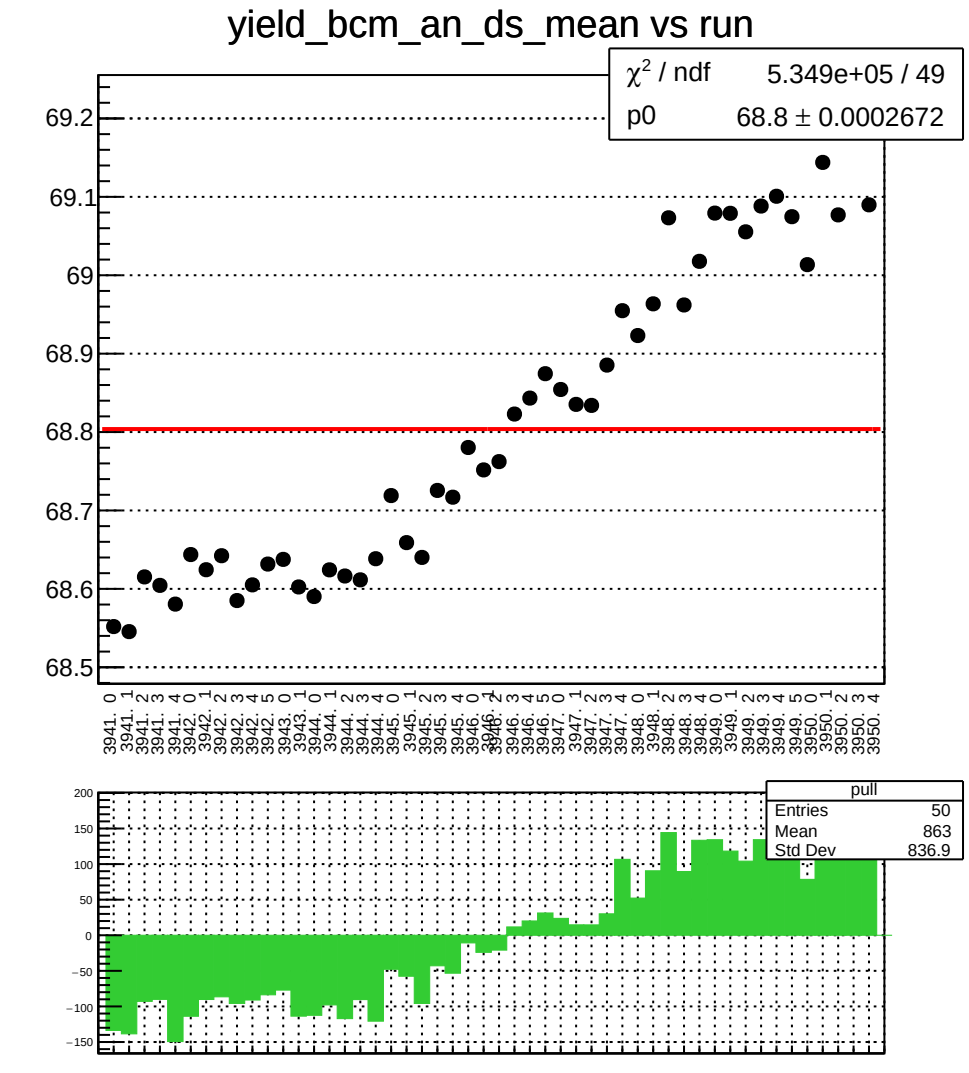

pull1D
Entries 50
Mean −0.3796
Std Dev 3.649

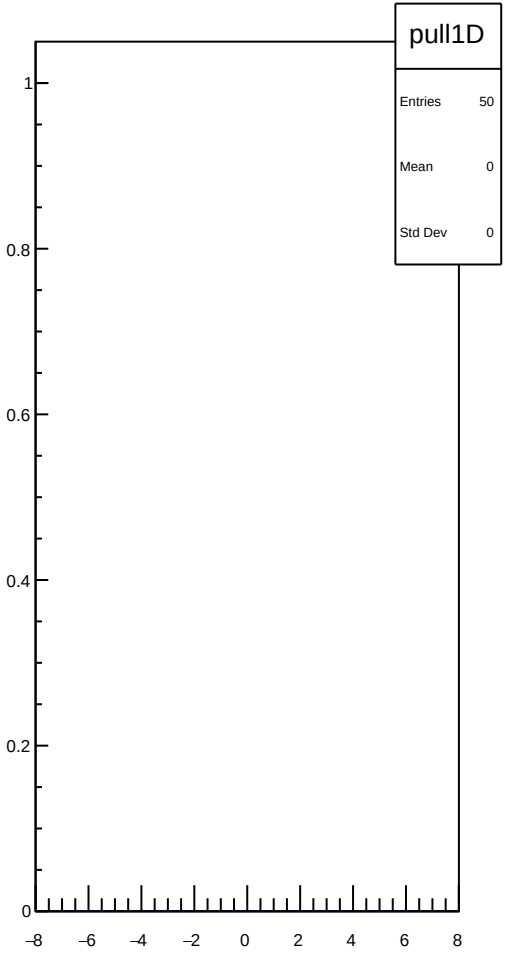

yield_dsl_rms vs run
χ² / ndf 2.966e+04 / 49
p0 0.1406 ± 0.0001424
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

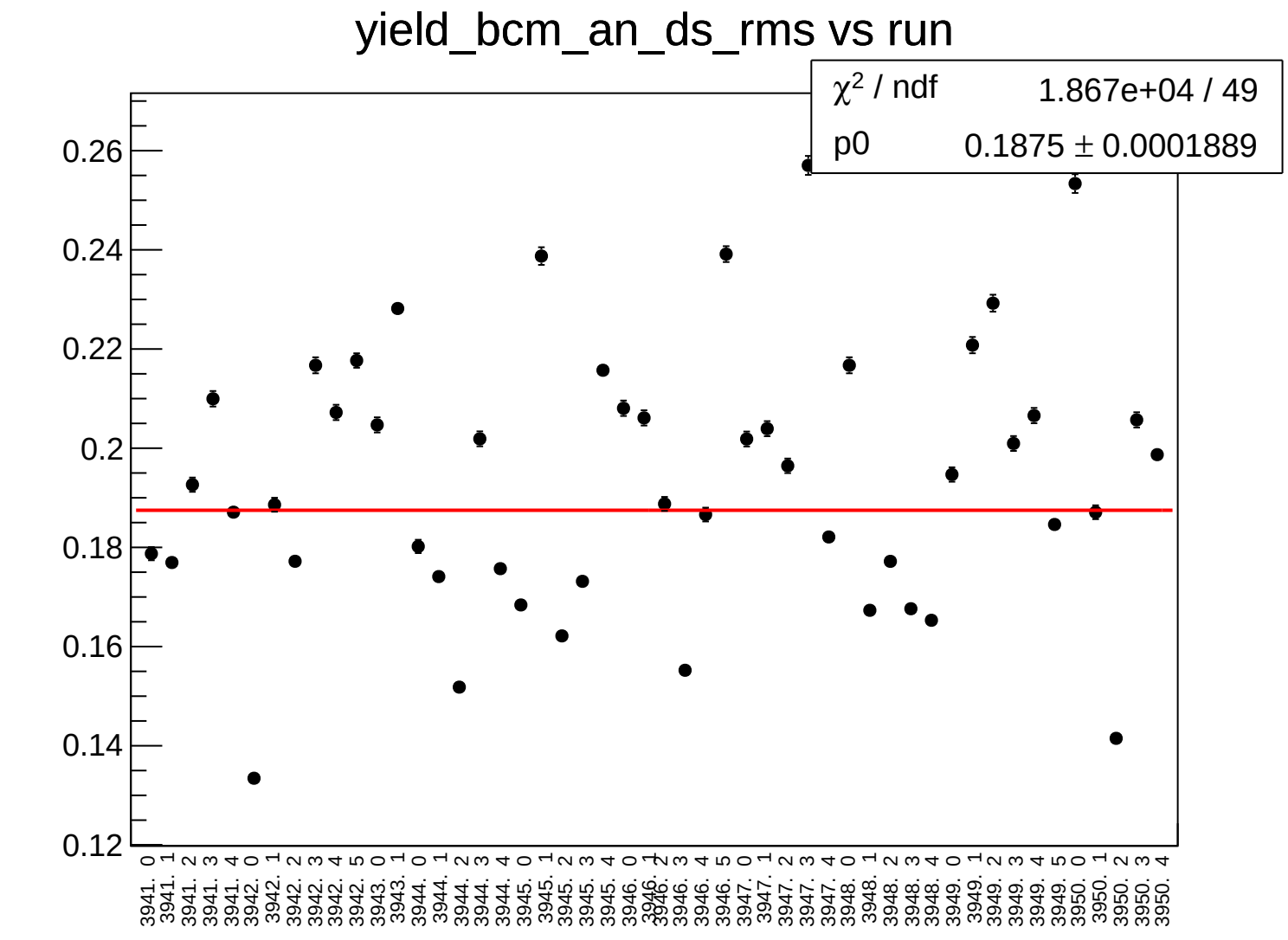

yield_dsr_mean vs run
χ² / ndf 1.493e+06 / 49
p0 66.6 ± 0.0001212
66.9
66.8
66.7
66.6
66.5
66.4
66.3
66.2
pull
Entries 50
Mean −135.9
Std Dev 153.6
300
200
100
0
−100
−200
−300
−400

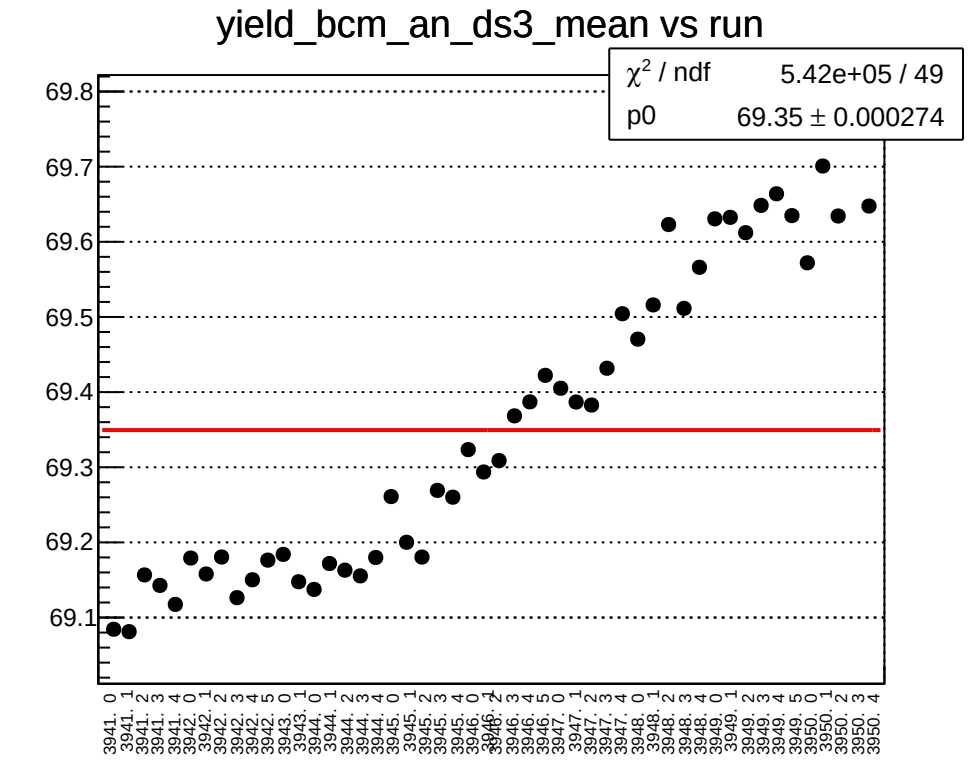

pull1D
Entries 50
Mean −1.411
Std Dev 4.575
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

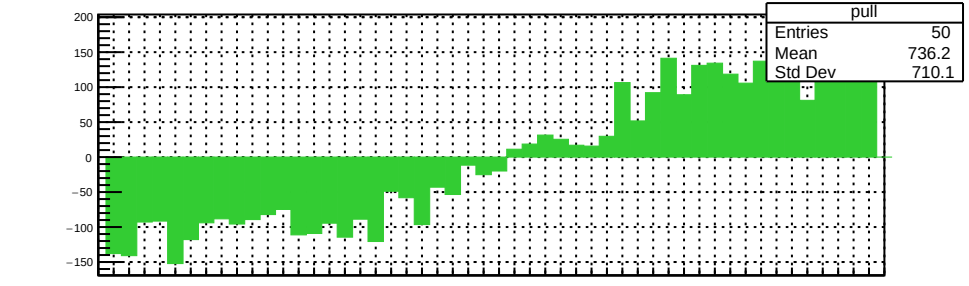

yield_dsr_rms vs run
χ² / ndf 5.643e+04 / 49
p0 0.08341 ± 8.571e–05
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

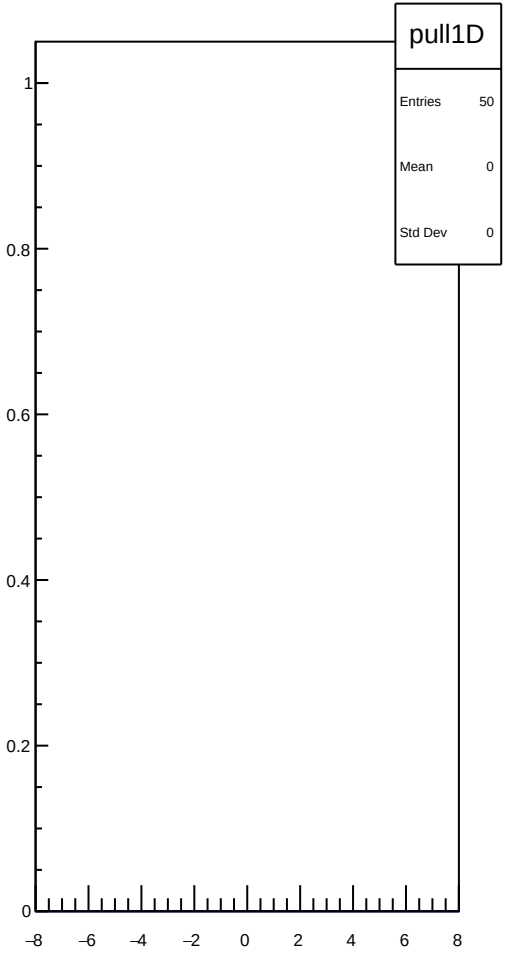

yield_bcm_an_ds_mean vs run
χ² / ndf 5.349e+05 / 49
p0 68.8 ± 0.0002672
69.2
69.1
69
68.9
68.8
68.7
68.6
68.5
pull
Entries 50
Mean 863
Std Dev 836.9
200
150
100
50
0
−50
−100
−150

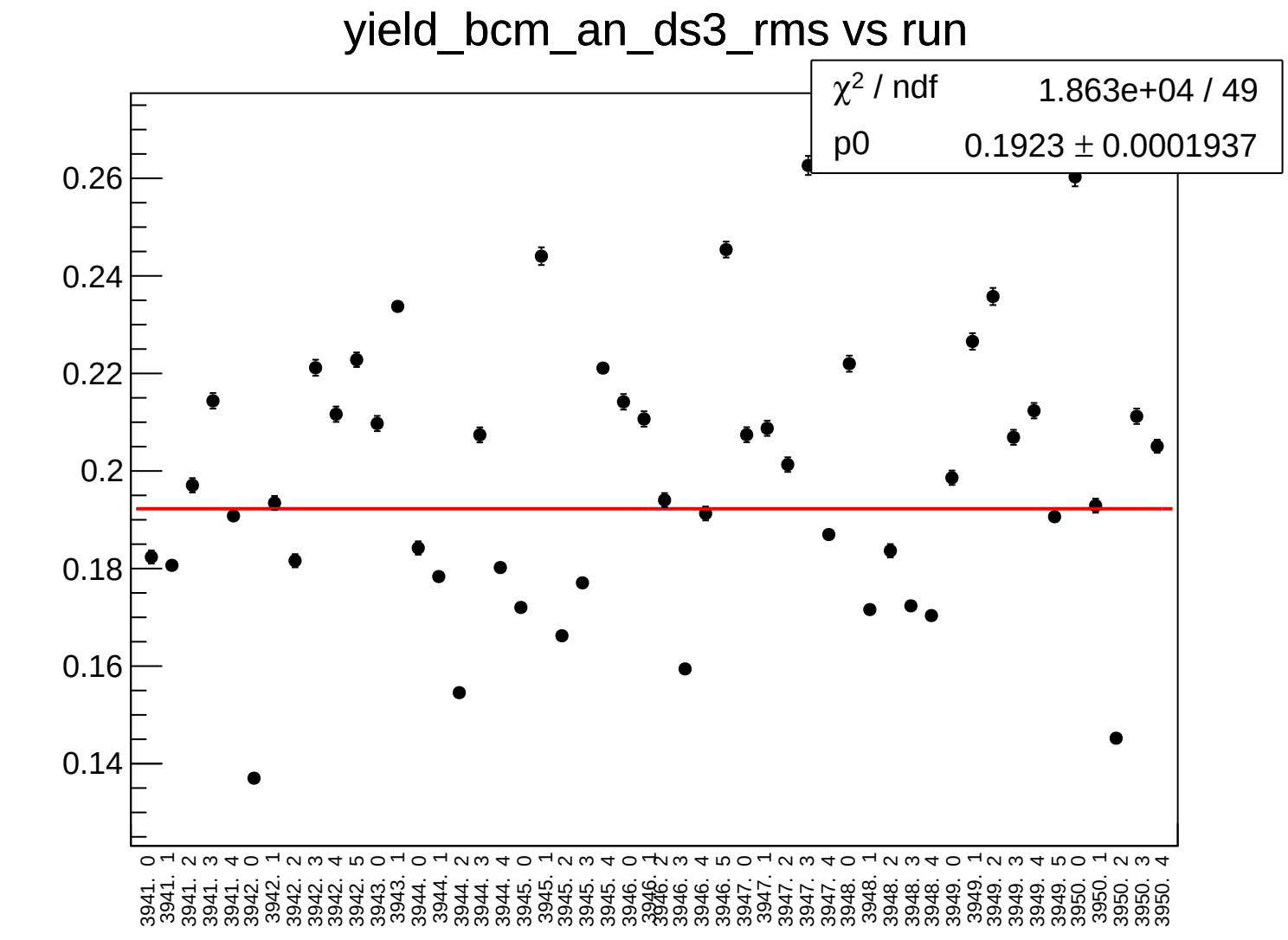

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

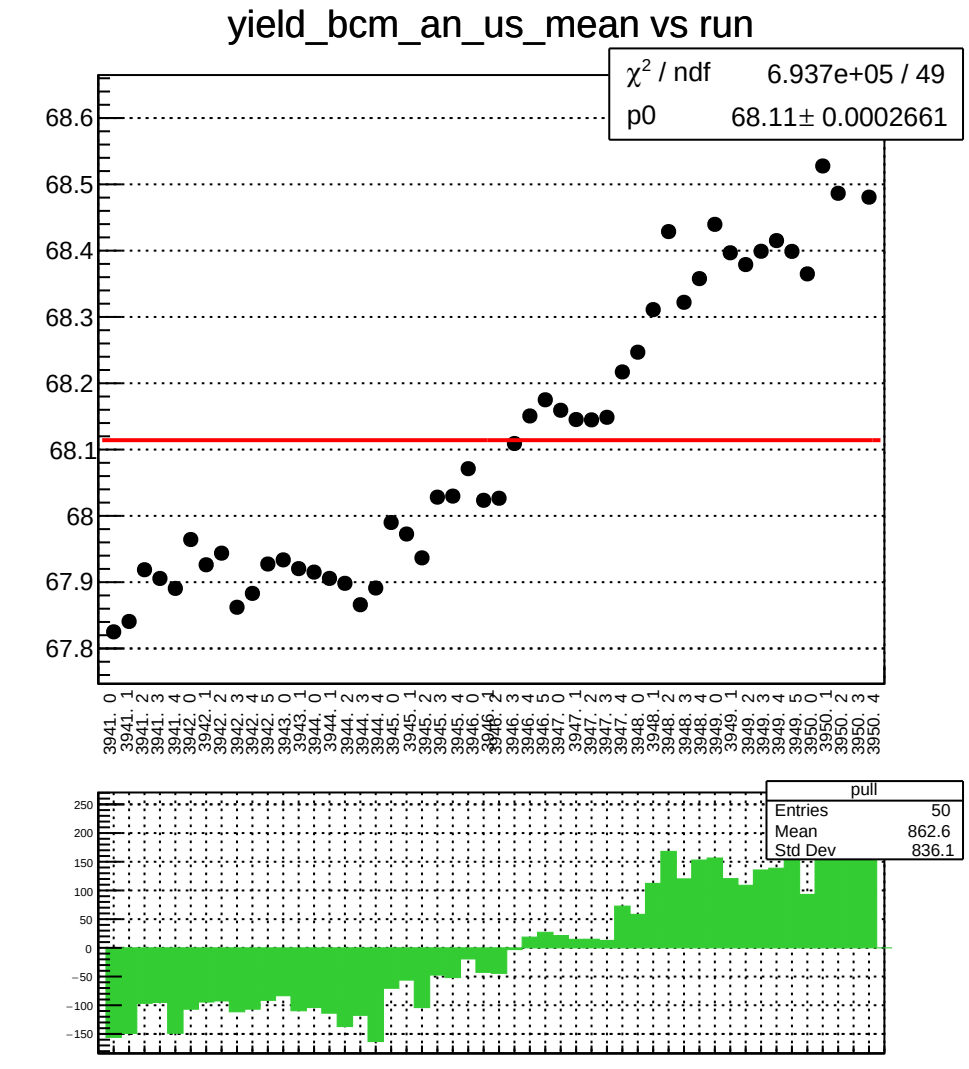

yield_bcm_an_ds_rms vs run
χ² / ndf 1.867e+04 / 49
p0 0.1875 ± 0.0001889
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

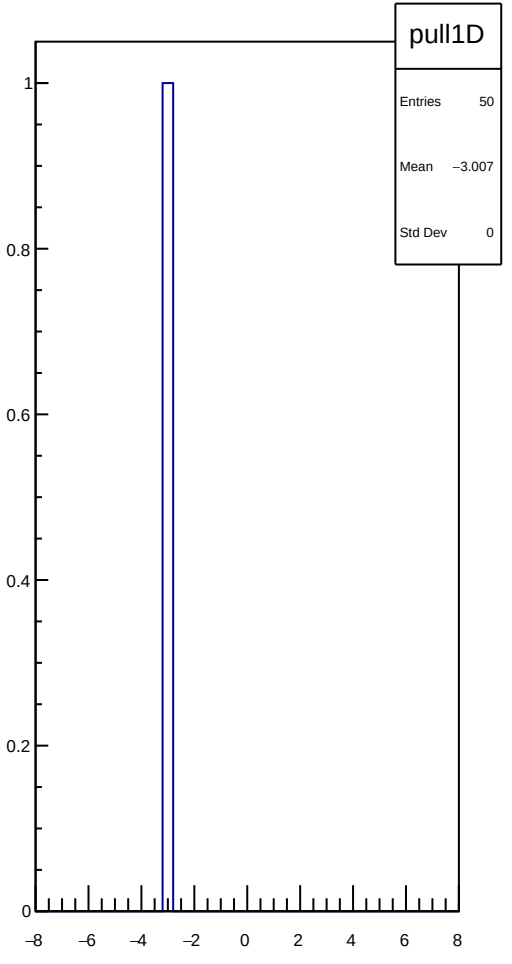

yield_bcm_an_ds3_mean vs run
χ² / ndf 5.42e+05 / 49
p0 69.35 ± 0.000274
69.8
69.7
69.6
69.5
69.4
69.3
69.2
69.1
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

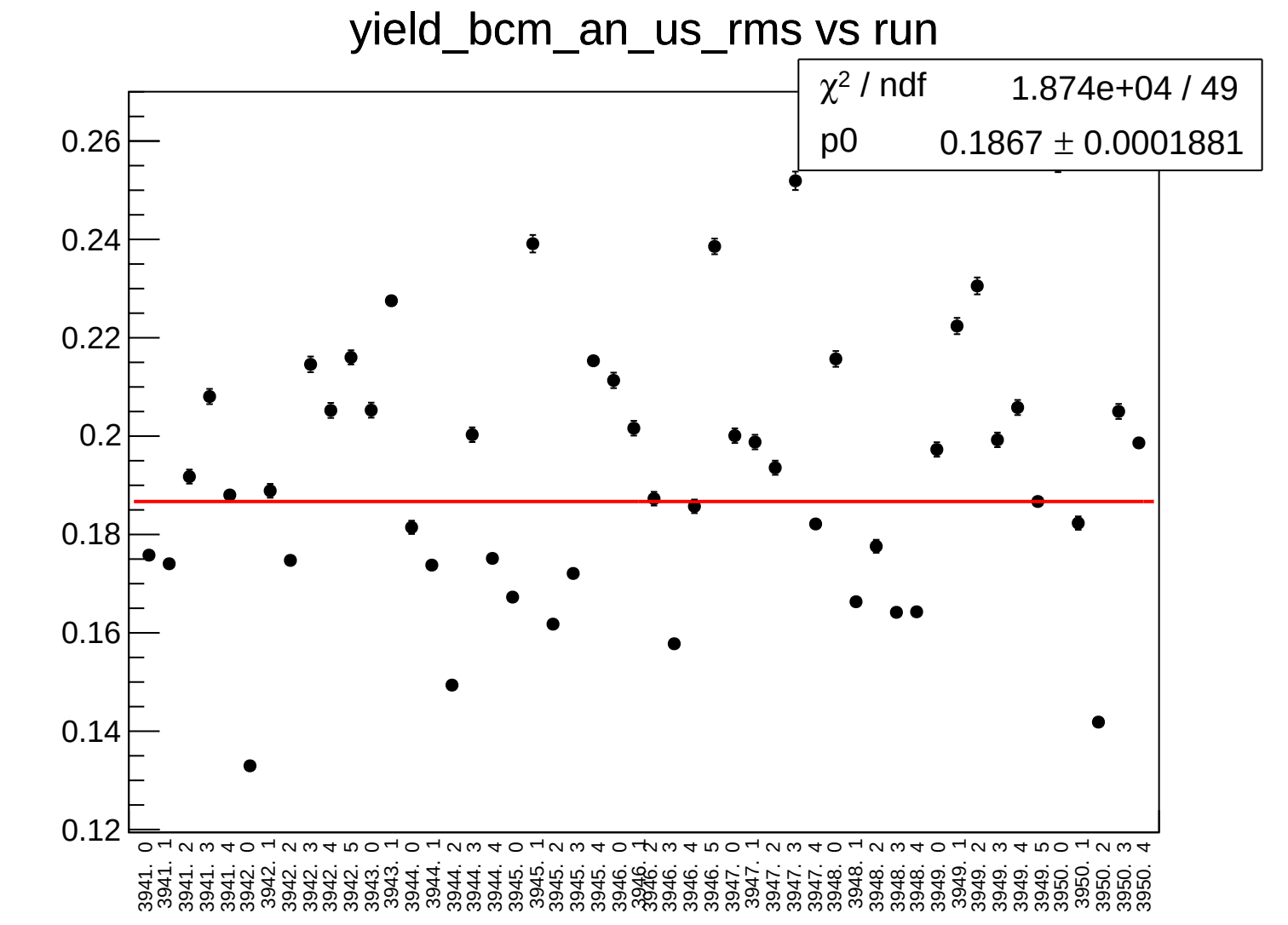

pull
Entries 50
Mean 736.2
Std Dev 710.1
200
150
100
50
0
−50
−100
−150

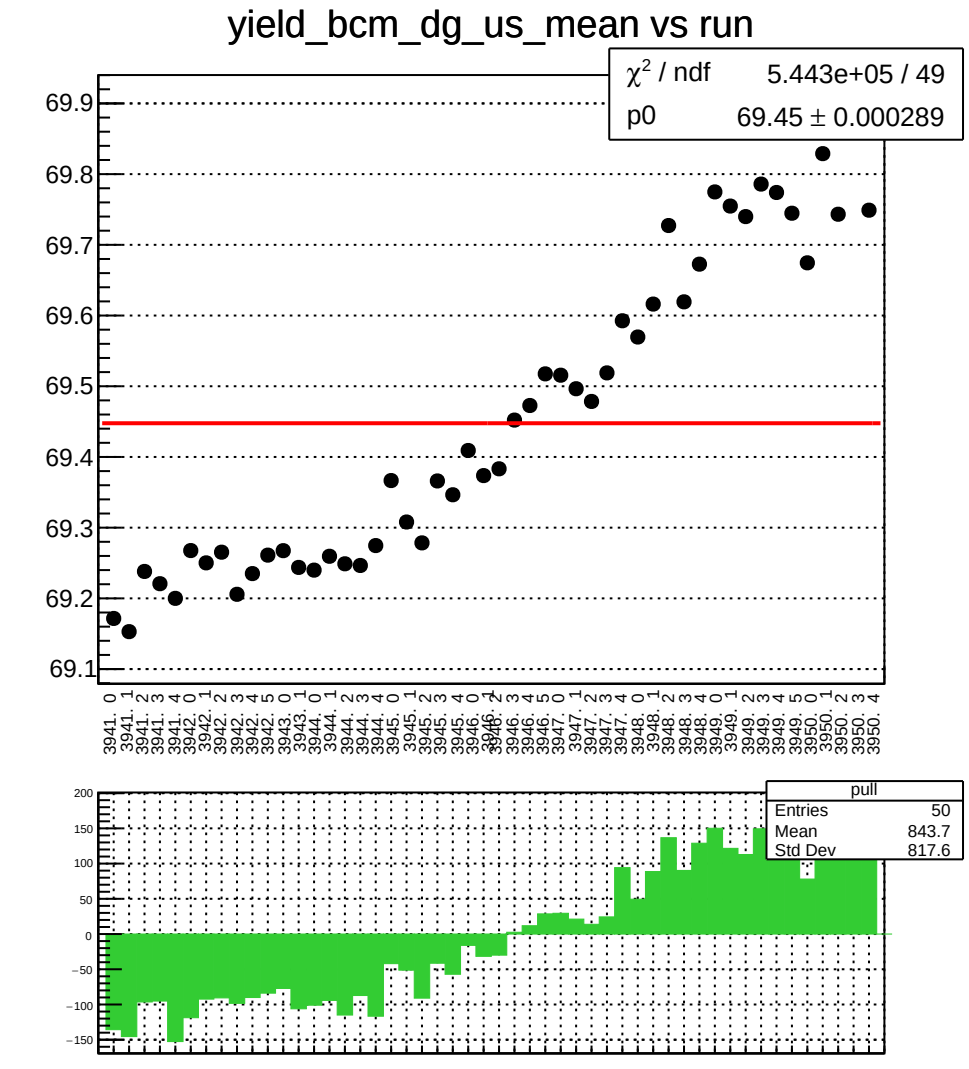

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

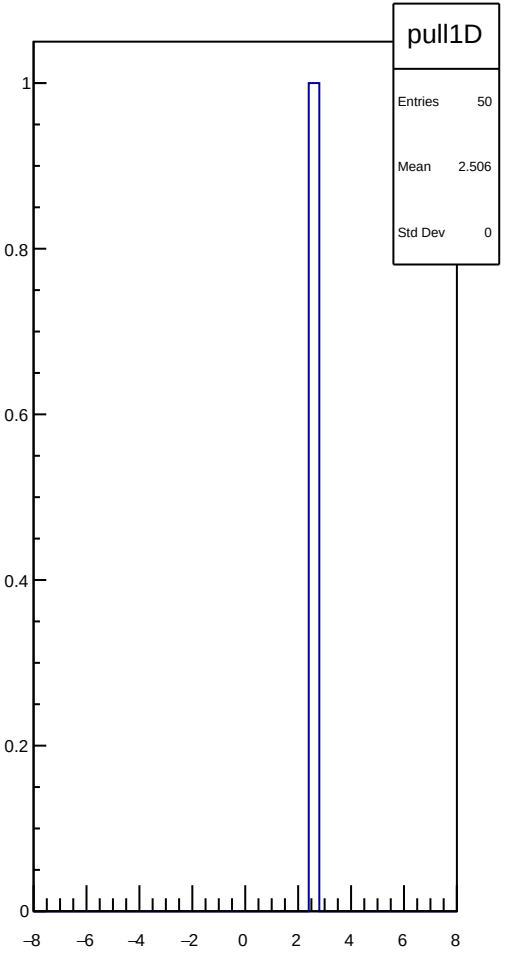

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.863e+04 / 49
p0 0.1923 ± 0.0001937
0.26
0.24
0.22
0.2
0.18
0.16
0.14
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

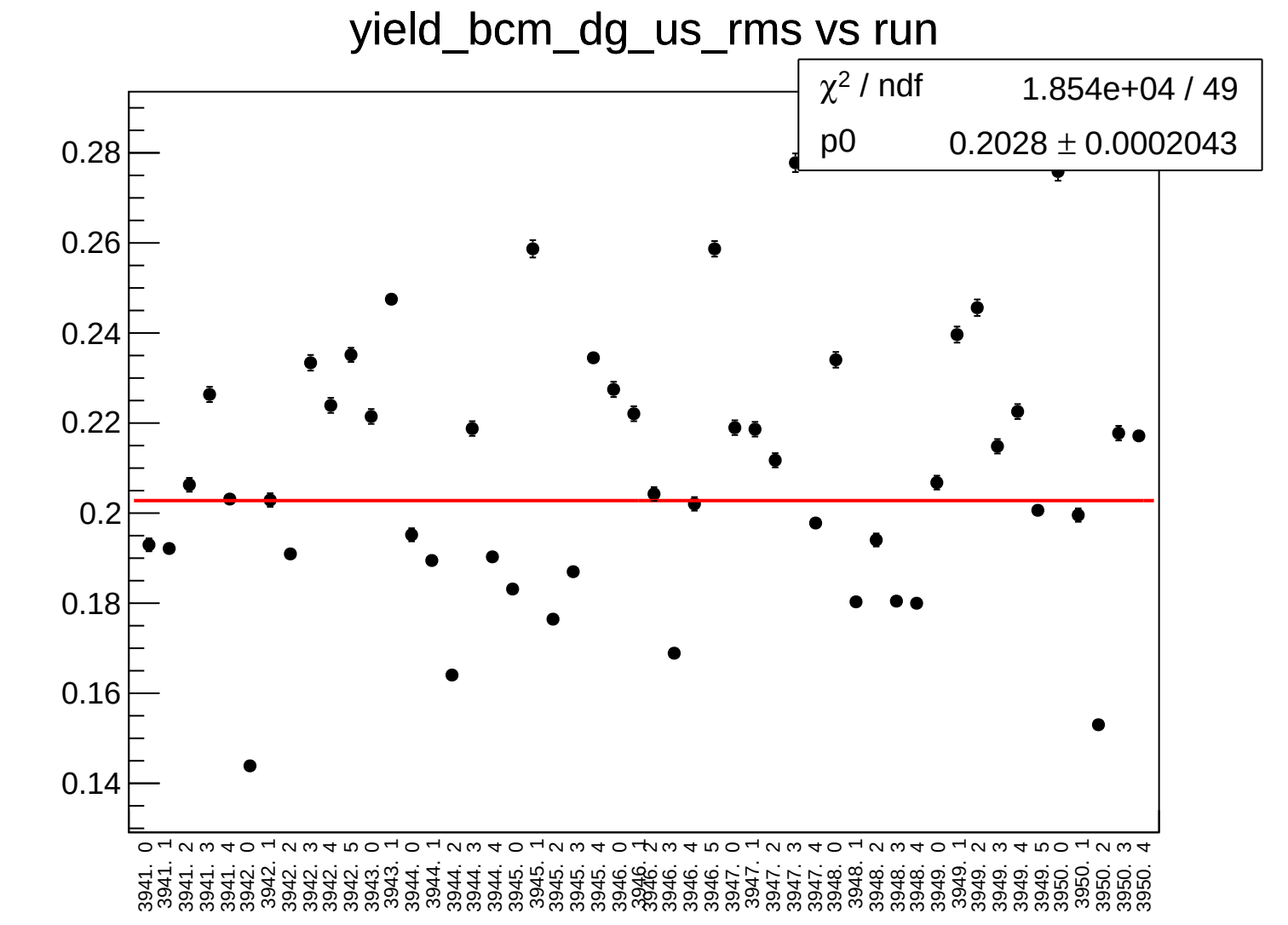

yield_bcm_an_us_mean vs run
χ² / ndf 6.937e+05 / 49
p0 68.11± 0.0002661
68.6
68.5
68.4
68.3
68.2
68.1
68
67.9
67.8
pull
Entries 50
Mean 862.6
Std Dev 836.1
250
200
150
100
50
0
−50
−100
−150

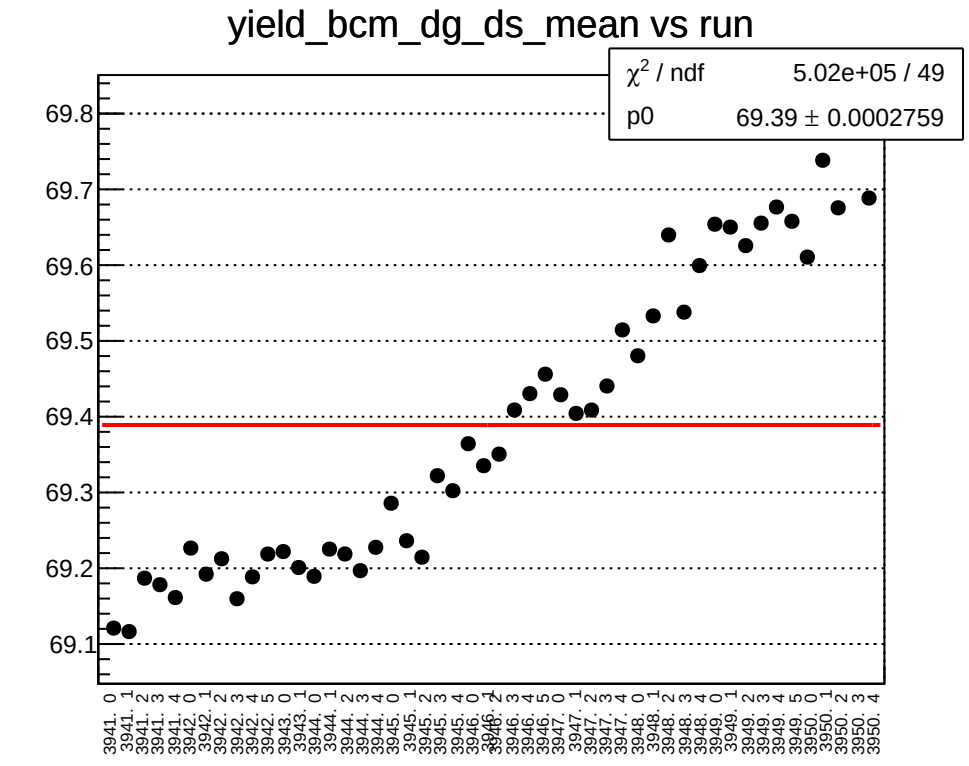

pull1D
Entries 50
Mean −3.007
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

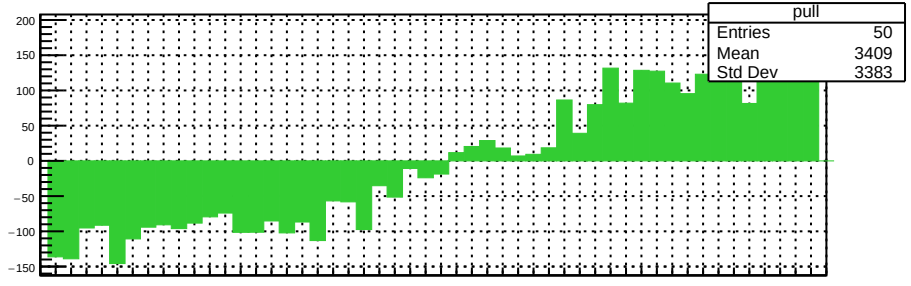

yield_bcm_an_us_rms vs run
χ² / ndf 1.874e+04 / 49
p0 0.1867 ± 0.0001881
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

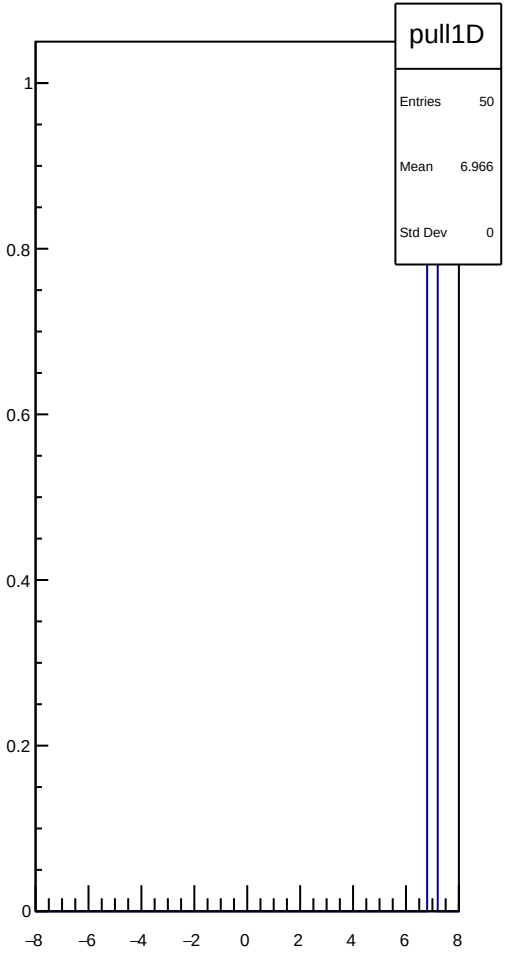

yield_bcm_dg_us_mean vs run
χ² / ndf 5.443e+05 / 49
p0 69.45 ± 0.000289
69.9
69.8
69.7
69.6
69.5
69.4
69.3
69.2
69.1
pull
Entries 50
Mean 843.7
Std Dev 817.6
200
150
100
50
0
−50
−100
−150

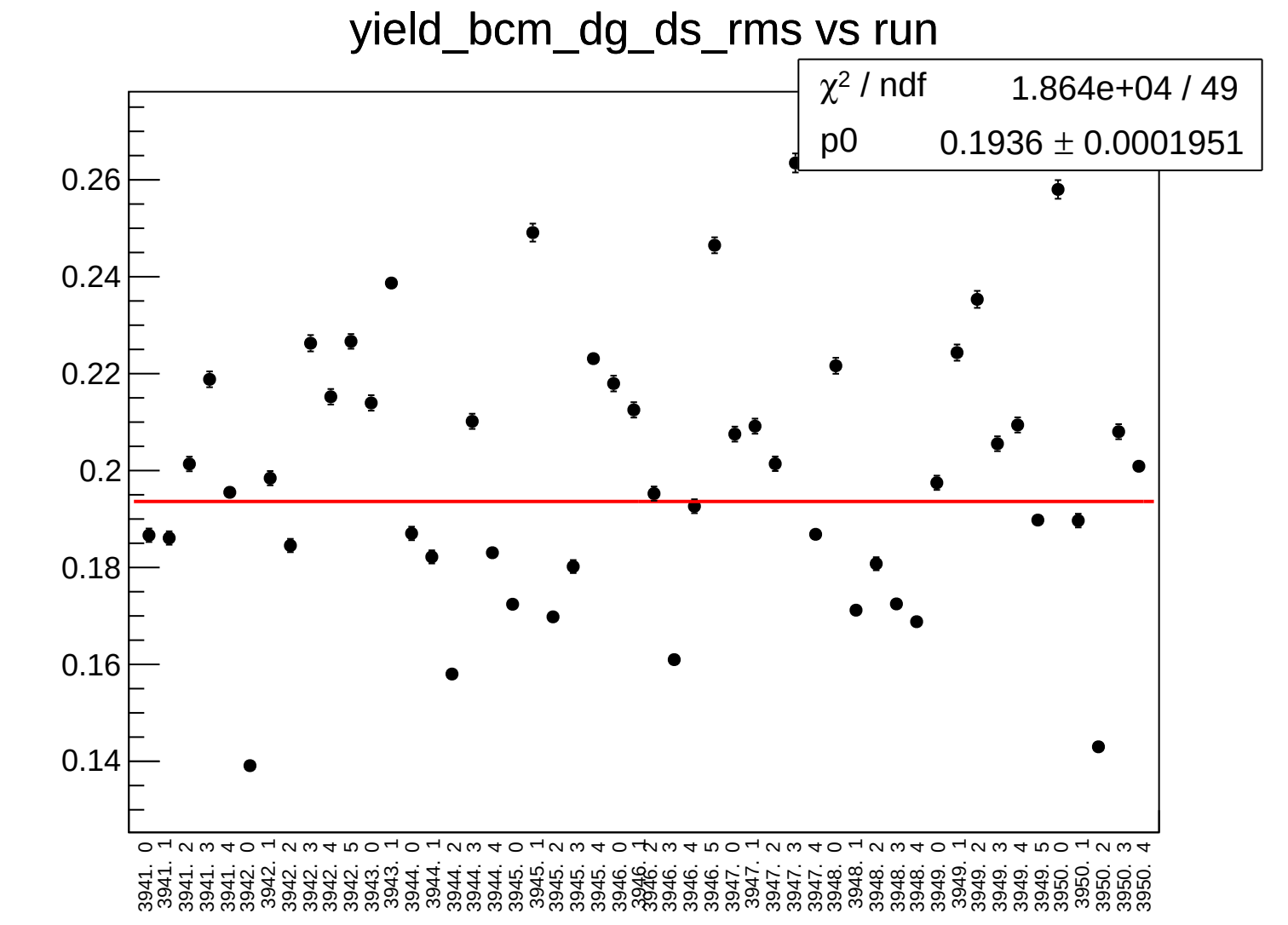

pull1D
Entries 50
Mean 2.506
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

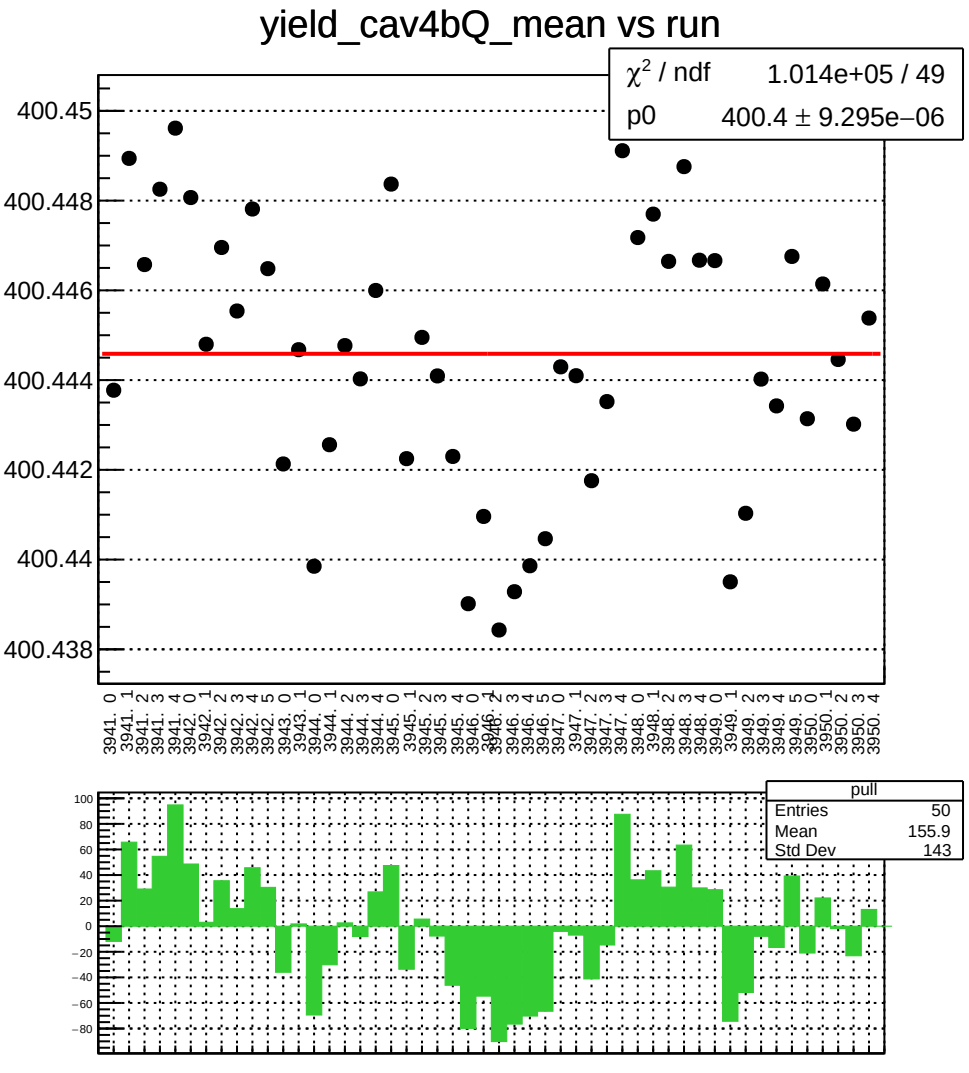

yield_bcm_dg_us_rms vs run
χ² / ndf 1.854e+04 / 49
p0 0.2028 ± 0.0002043
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

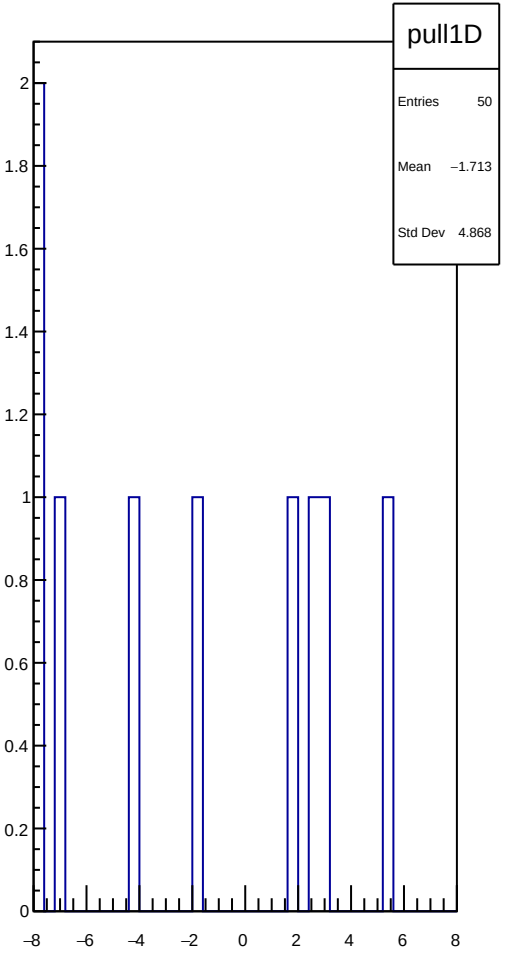

yield_bcm_dg_ds_mean vs run
χ² / ndf 5.02e+05 / 49
p0 69.39 ± 0.0002759
69.8
69.7
69.6
69.5
69.4
69.3
69.2
69.1
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

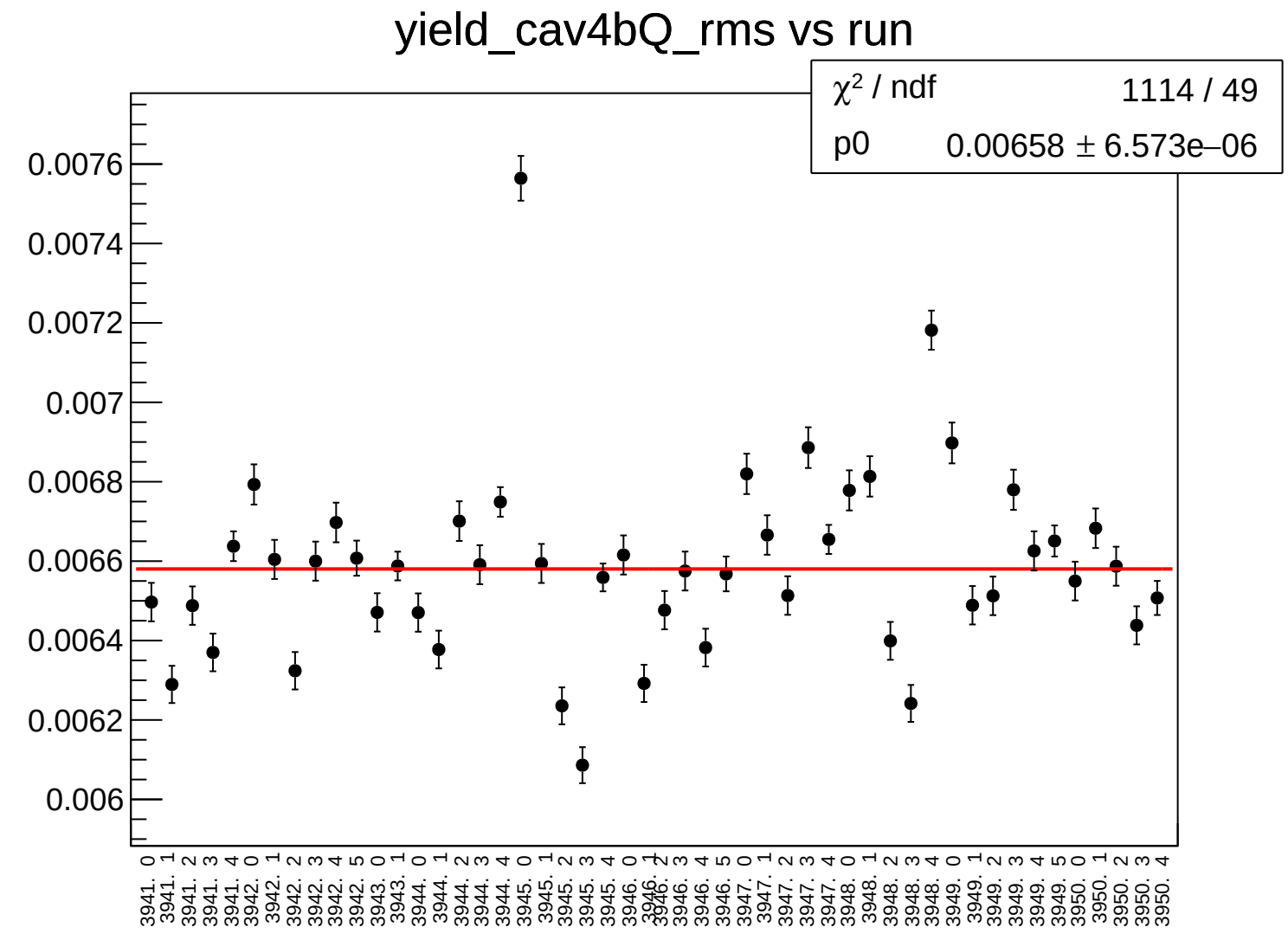

pull
Entries 50
Mean 3409
Std Dev 3383
200
150
100
50
0
−50
−100
−150

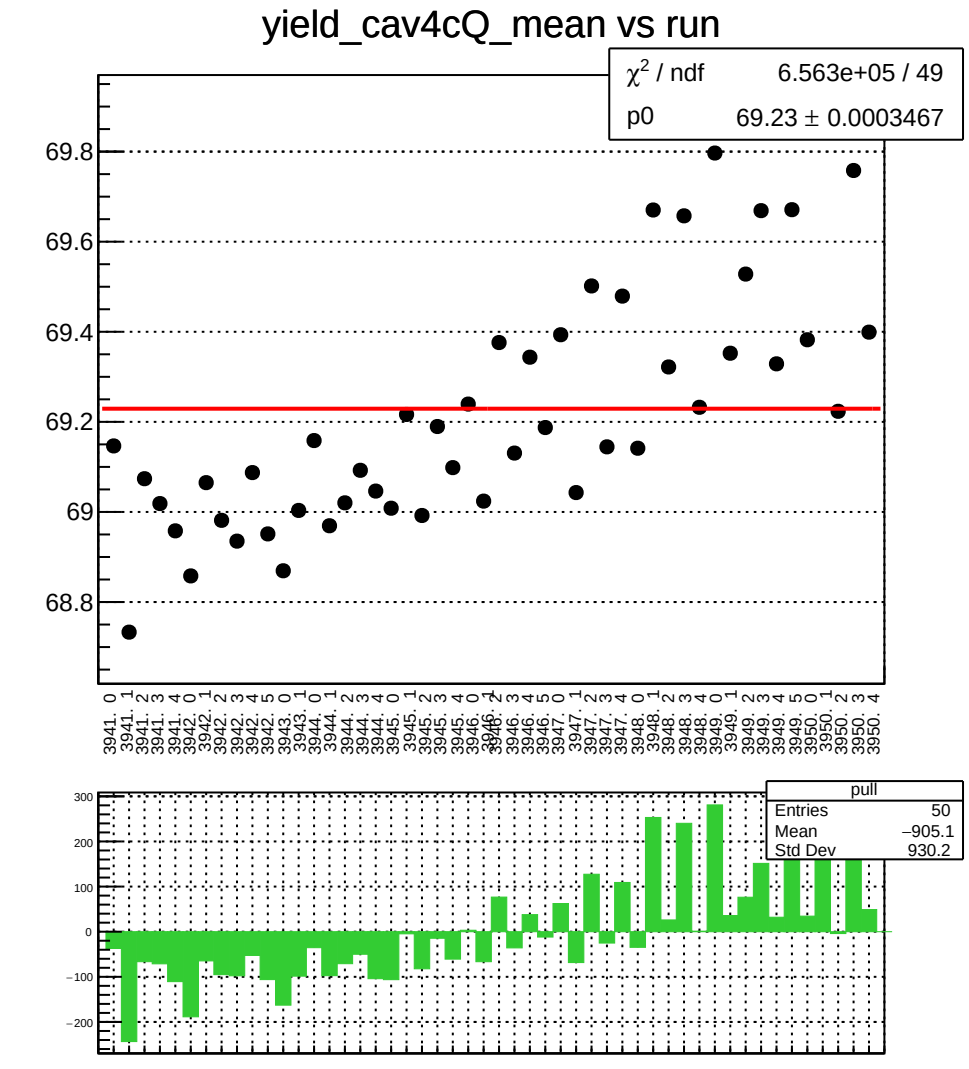

pull1D
Entries 50
Mean 6.966
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

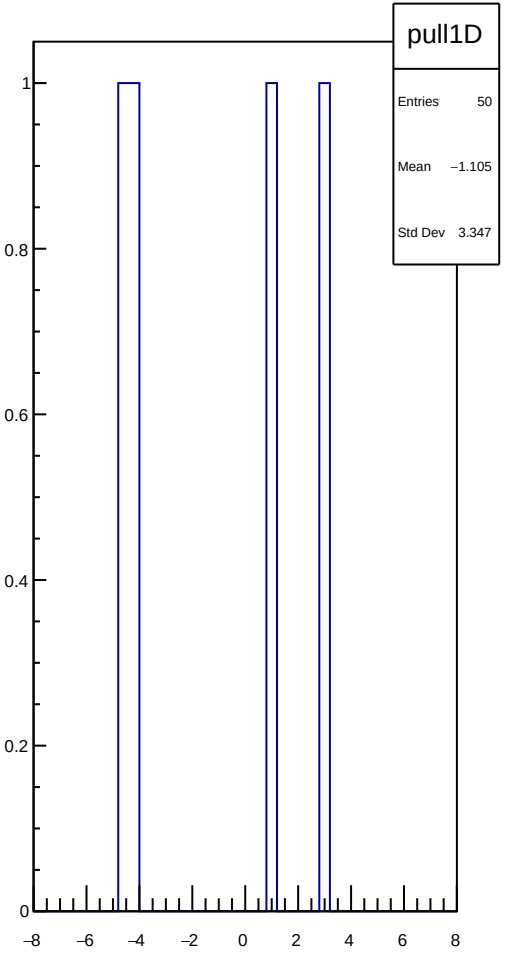

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.864e+04 / 49
p0 0.1936 ± 0.0001951
0.26
0.24
0.22
0.2
0.18
0.16
0.14
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

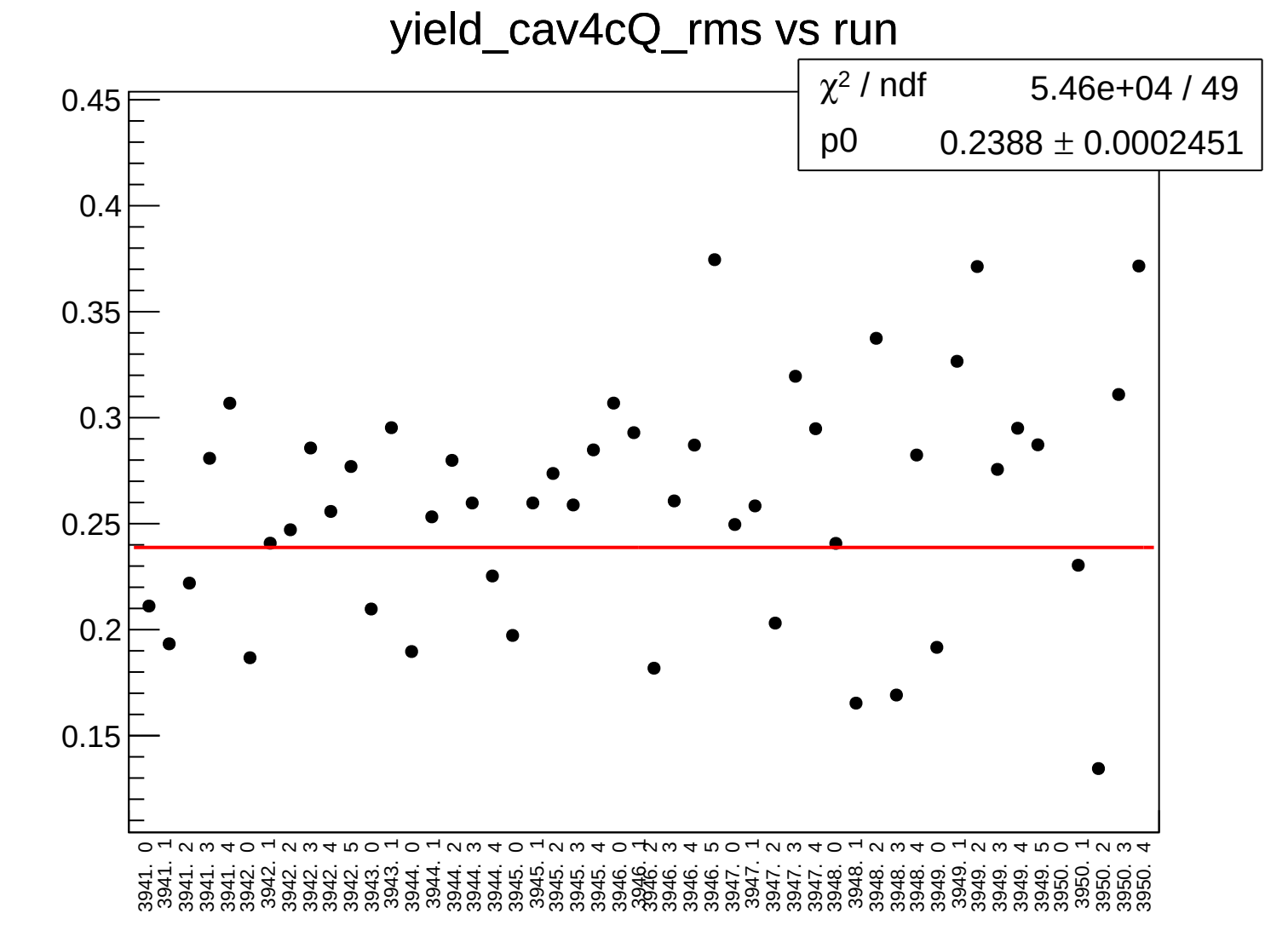

yield_cav4bQ_mean vs run
χ² / ndf 1.014e+05 / 49
p0 400.4 ± 9.295e−06
400.45
400.448
400.446
400.444
400.442
400.44
400.438
pull
Entries 50
Mean 155.9
Std Dev 143
100
80
60
40
20
0
−20
−40
−60
−80

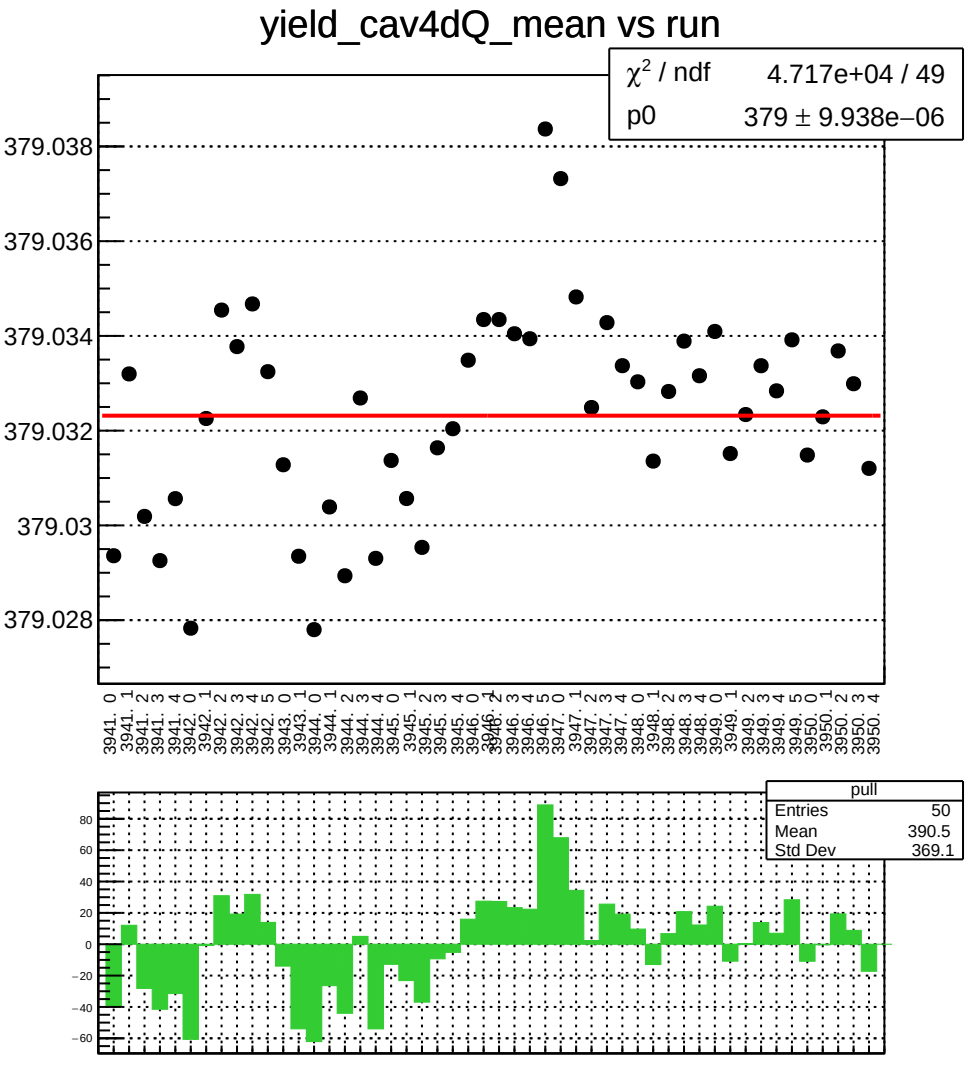

pull1D
Entries 50
Mean −1.713
Std Dev 4.868
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

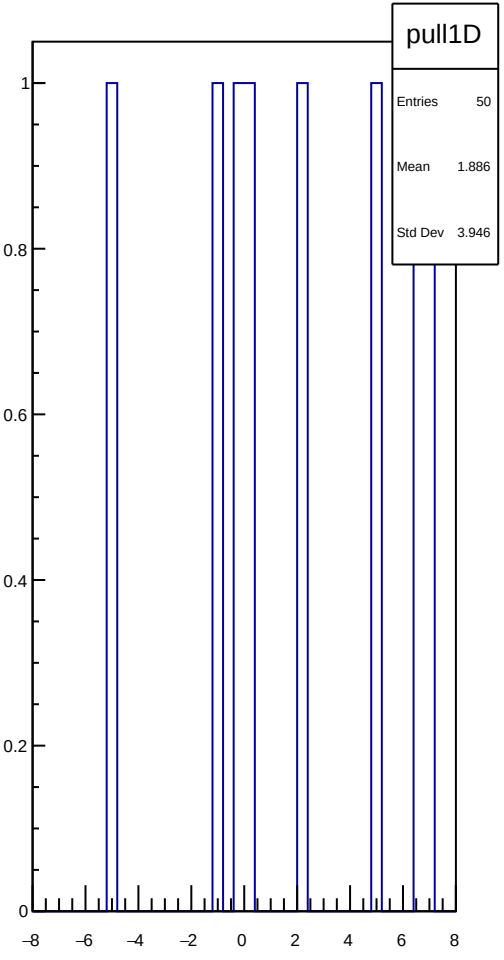

yield_cav4bQ_rms vs run
χ² / ndf 1114 / 49
p0 0.00658 ± 6.573e–06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

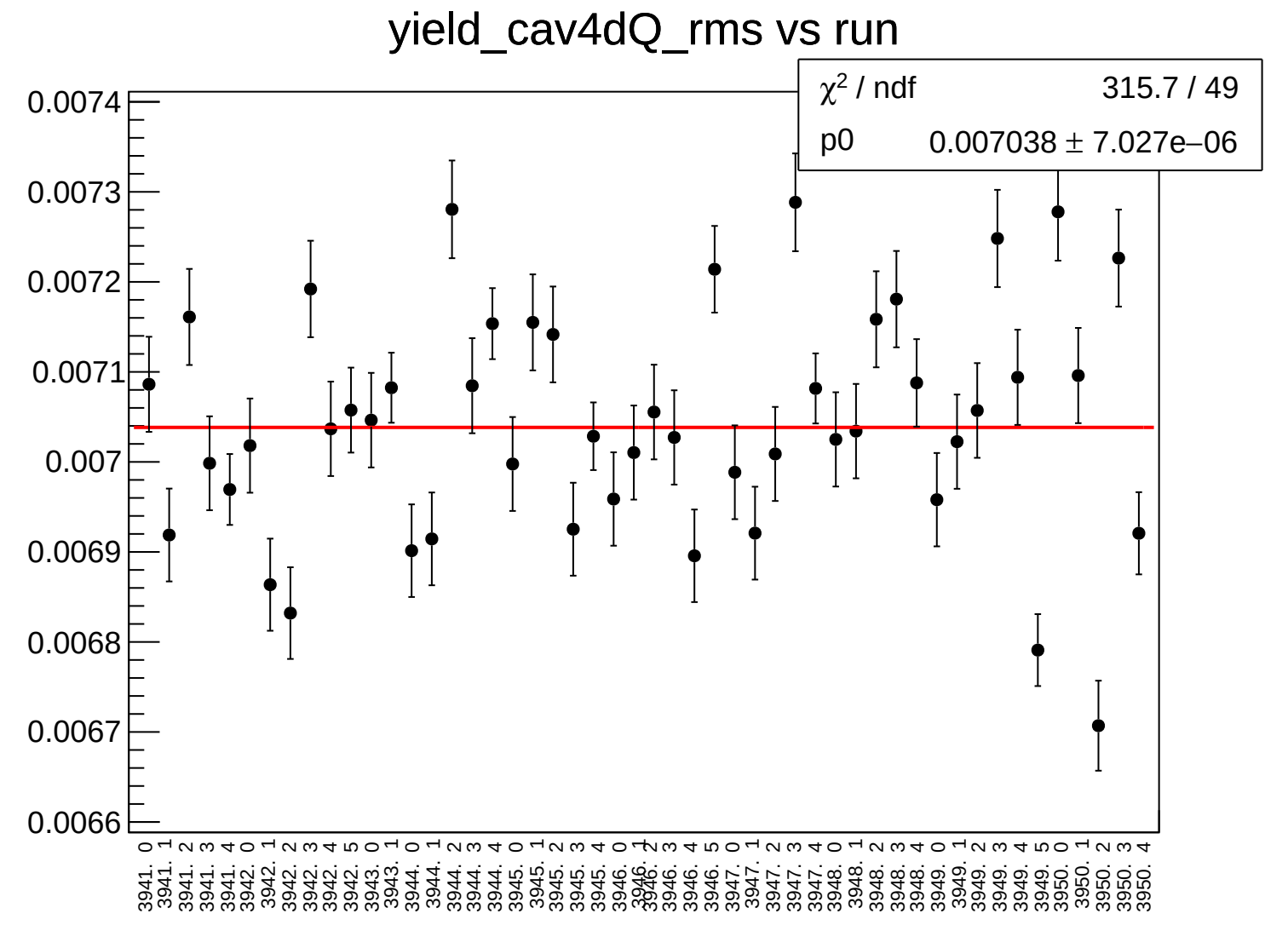

yield_cav4cQ_mean vs run
χ² / ndf 6.563e+05 / 49
p0 69.23 ± 0.0003467
69.8
69.6
69.4
69.2
69
68.8
pull
Entries 50
Mean −905.1
Std Dev 930.2
300
200
100
0
−100
−200

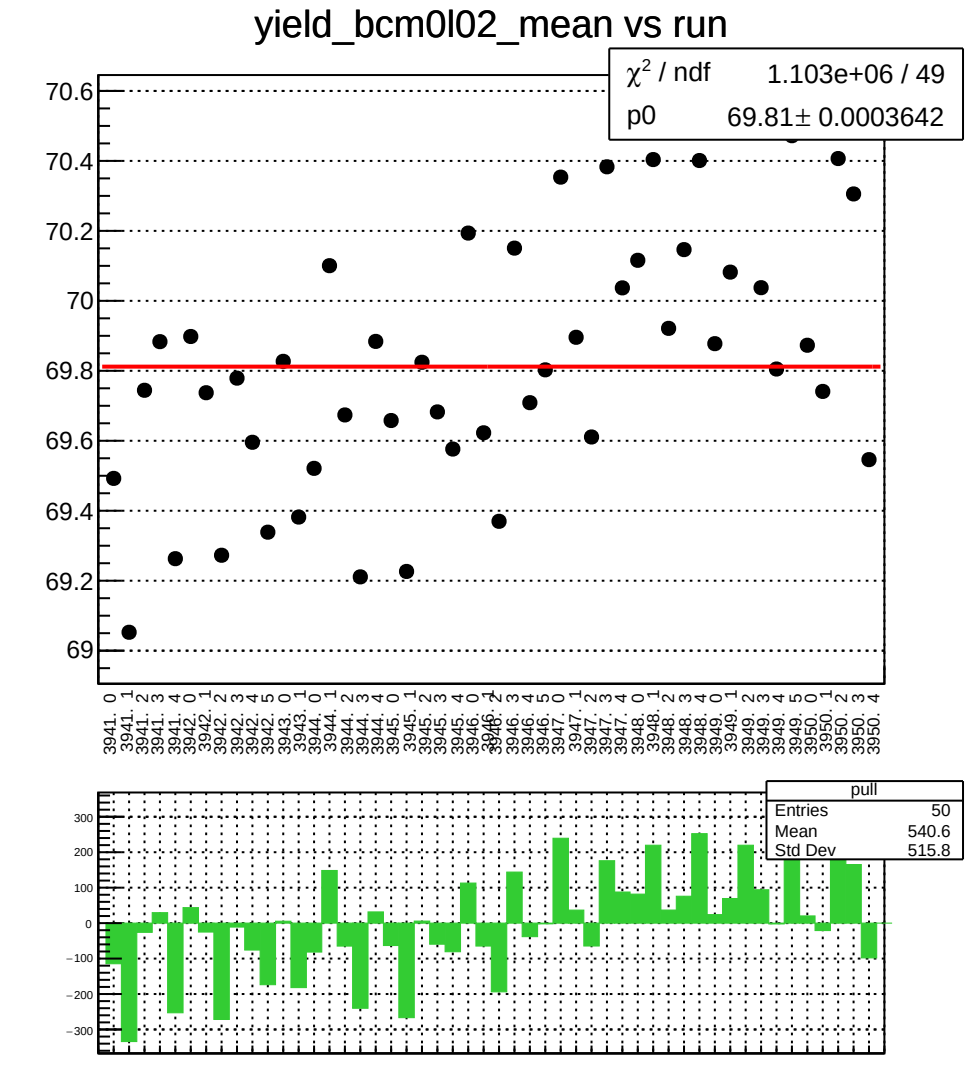

pull1D
Entries 50
Mean −1.105
Std Dev 3.347
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

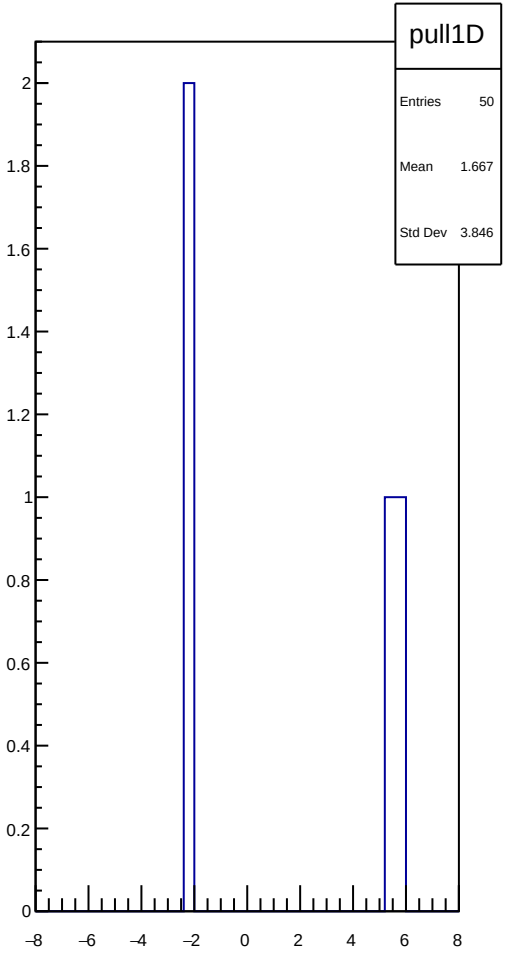

yield_cav4cQ_rms vs run
χ² / ndf 5.46e+04 / 49
p0 0.2388 ± 0.0002451
0.45
0.4
0.35
0.3
0.25
0.2
0.15
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

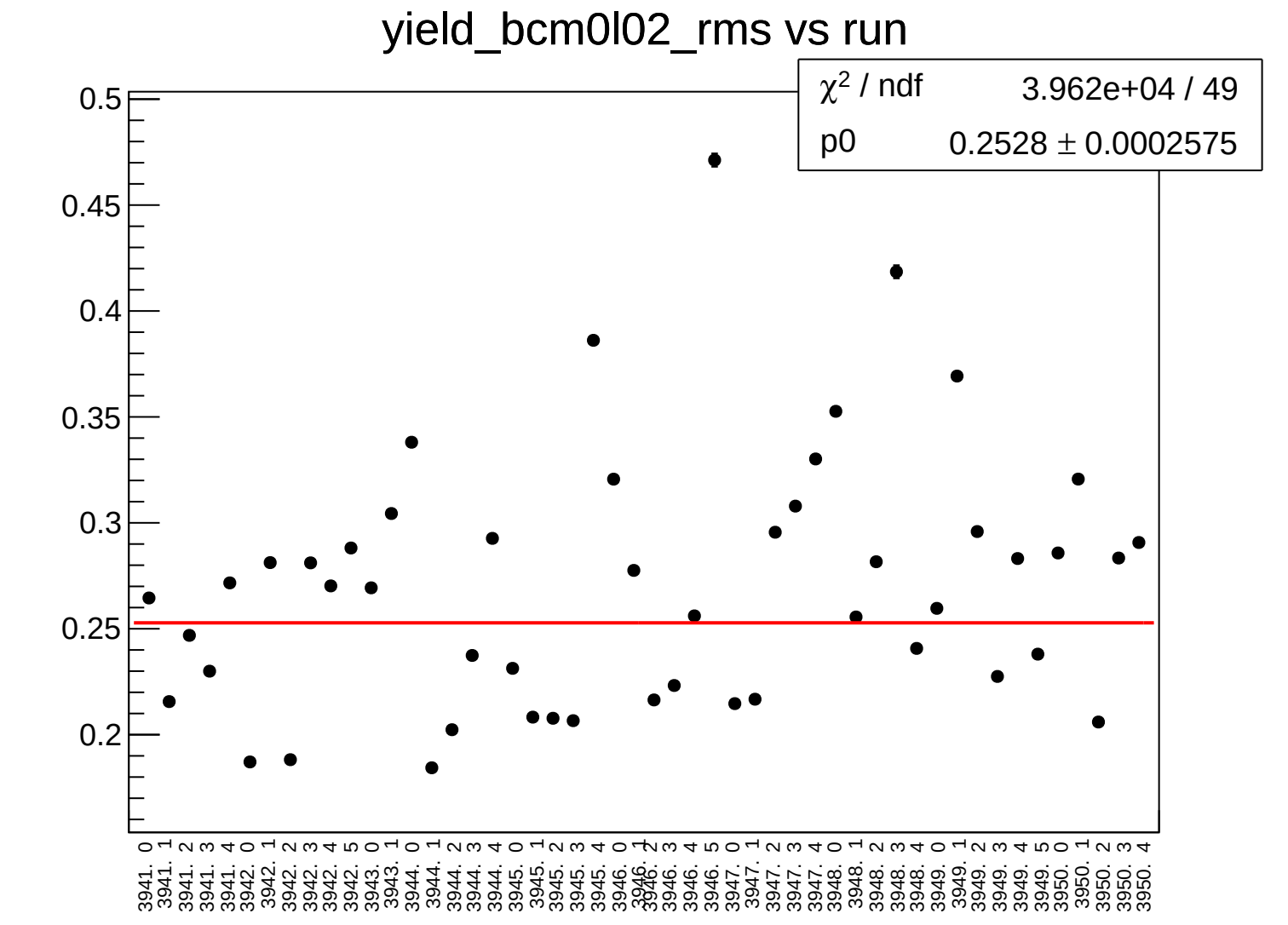

yield_cav4dQ_mean vs run
χ² / ndf 4.717e+04 / 49
p0 379 ± 9.938e−06
379.038
379.036
379.034
379.032
379.03
379.028
pull
Entries 50
Mean 390.5
Std Dev 369.1
80
60
40
20
0
−20
−40
−60

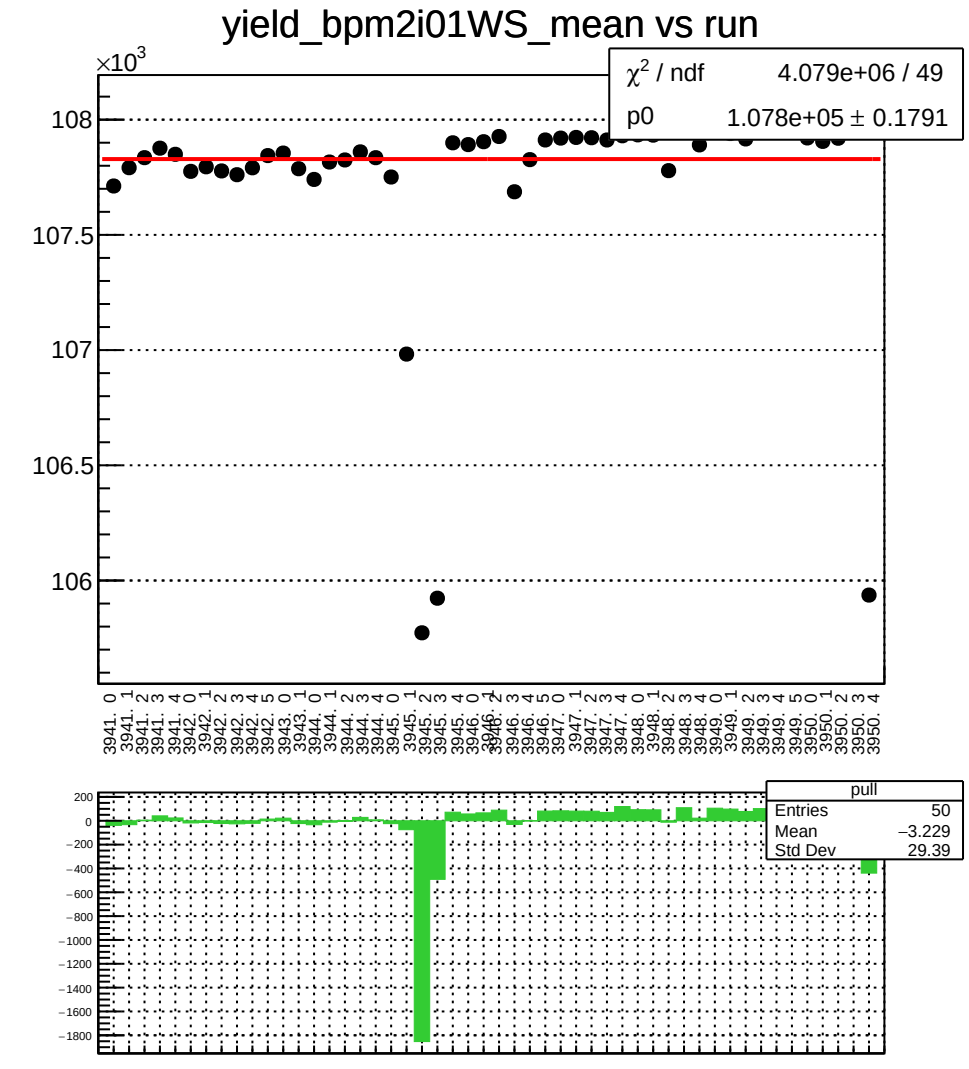

pull1D
Entries 50
Mean 1.886
Std Dev 3.946
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

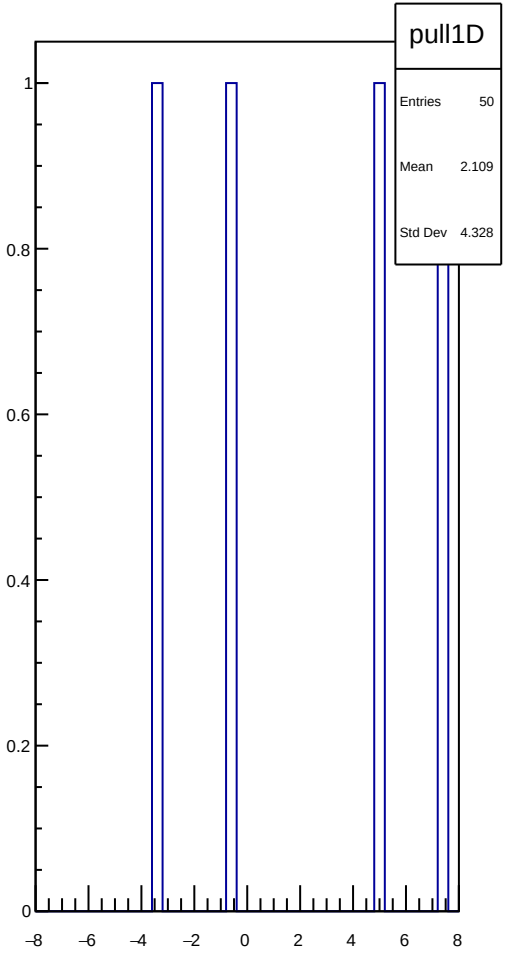

yield_cav4dQ_rms vs run
χ² / ndf 315.7 / 49
p0 0.007038 ± 7.027e−06
0.0074
0.0073
0.0072
0.0071
0.007
0.0069
0.0068
0.0067
0.0066
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

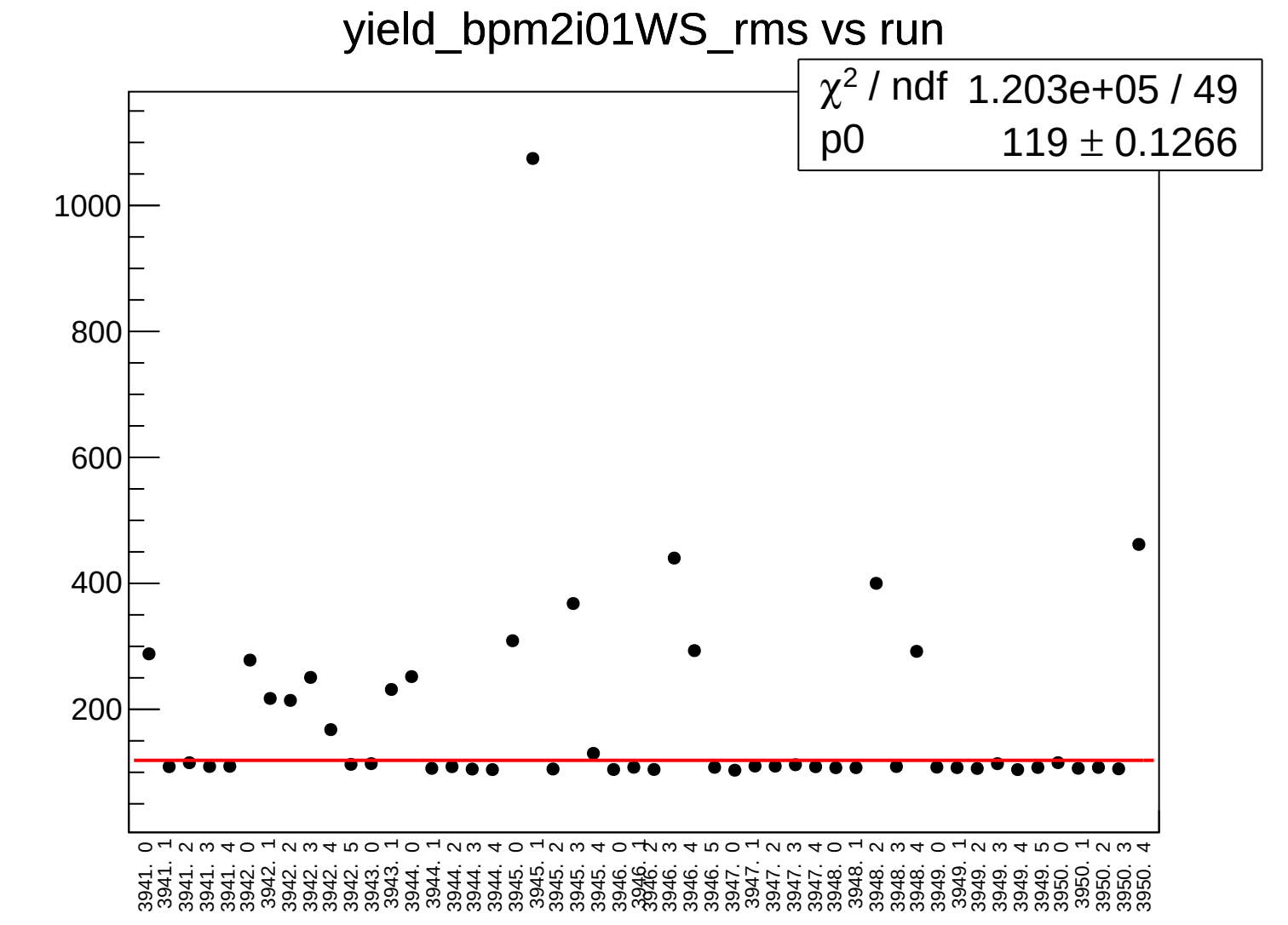

yield_bcm0l02_mean vs run
χ² / ndf 1.103e+06 / 49
p0 69.81± 0.0003642
70.6
70.4
70.2
70
69.8
69.6
69.4
69.2
69
pull
Entries 50
Mean 540.6
Std Dev 515.8
300
200
100
0
−100
−200
−300

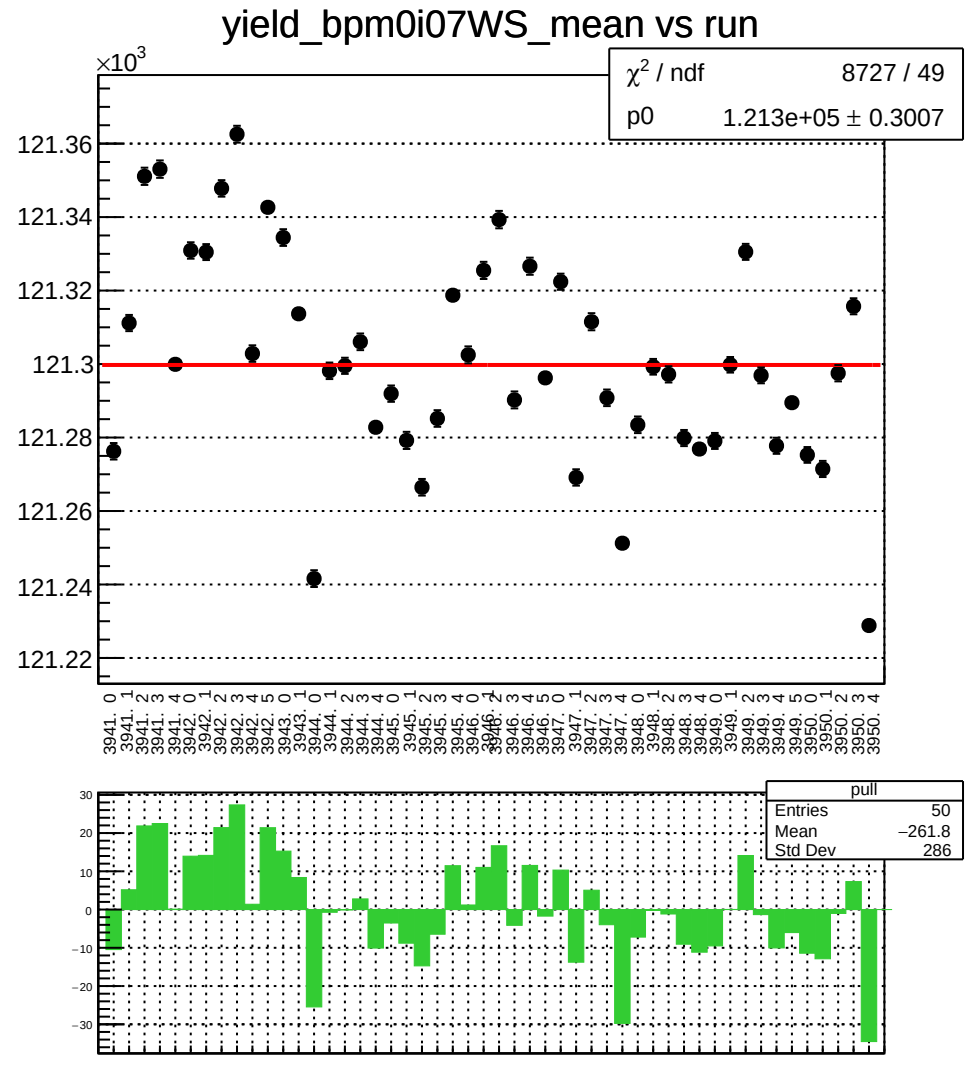

pull1D
Entries 50
Mean 1.667
Std Dev 3.846
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

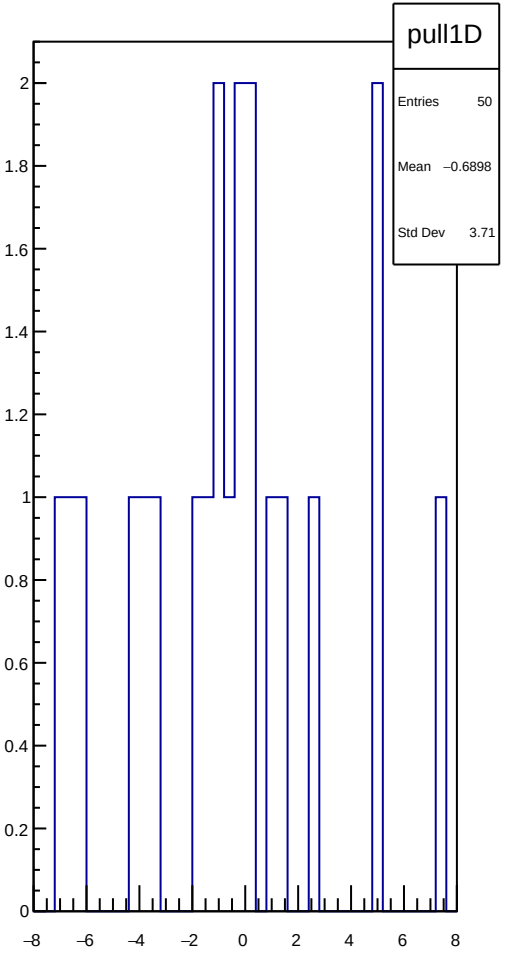

yield_bcm0l02_rms vs run
χ² / ndf 3.962e+04 / 49
p0 0.2528 ± 0.0002575
0.5
0.45
0.4
0.35
0.3
0.25
0.2
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

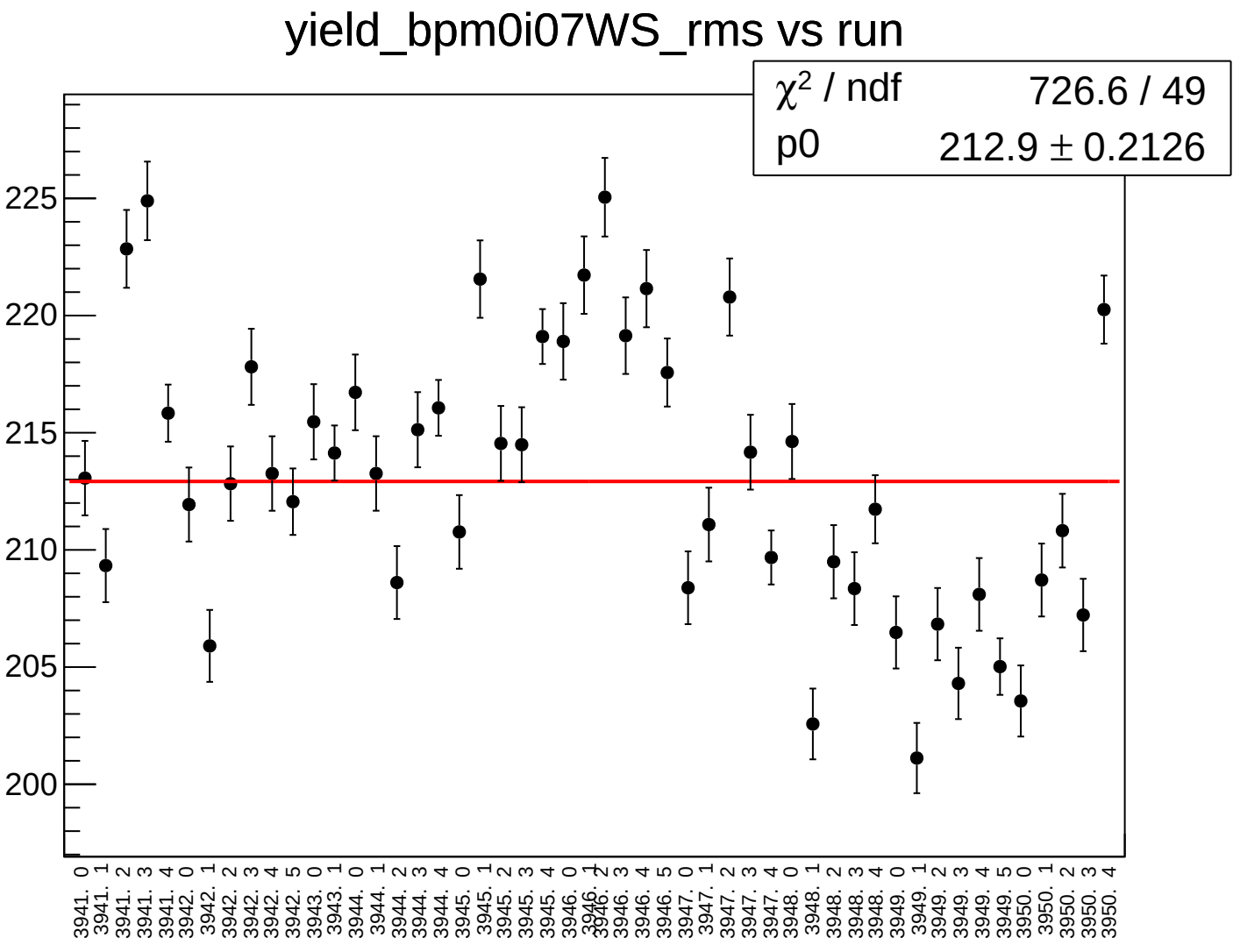

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 4.079e+06 / 49
p0 1.078e+05 ± 0.1791
108
107.5
107
106.5
106
pull
Entries 50
Mean −3.229
Std Dev 29.39
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

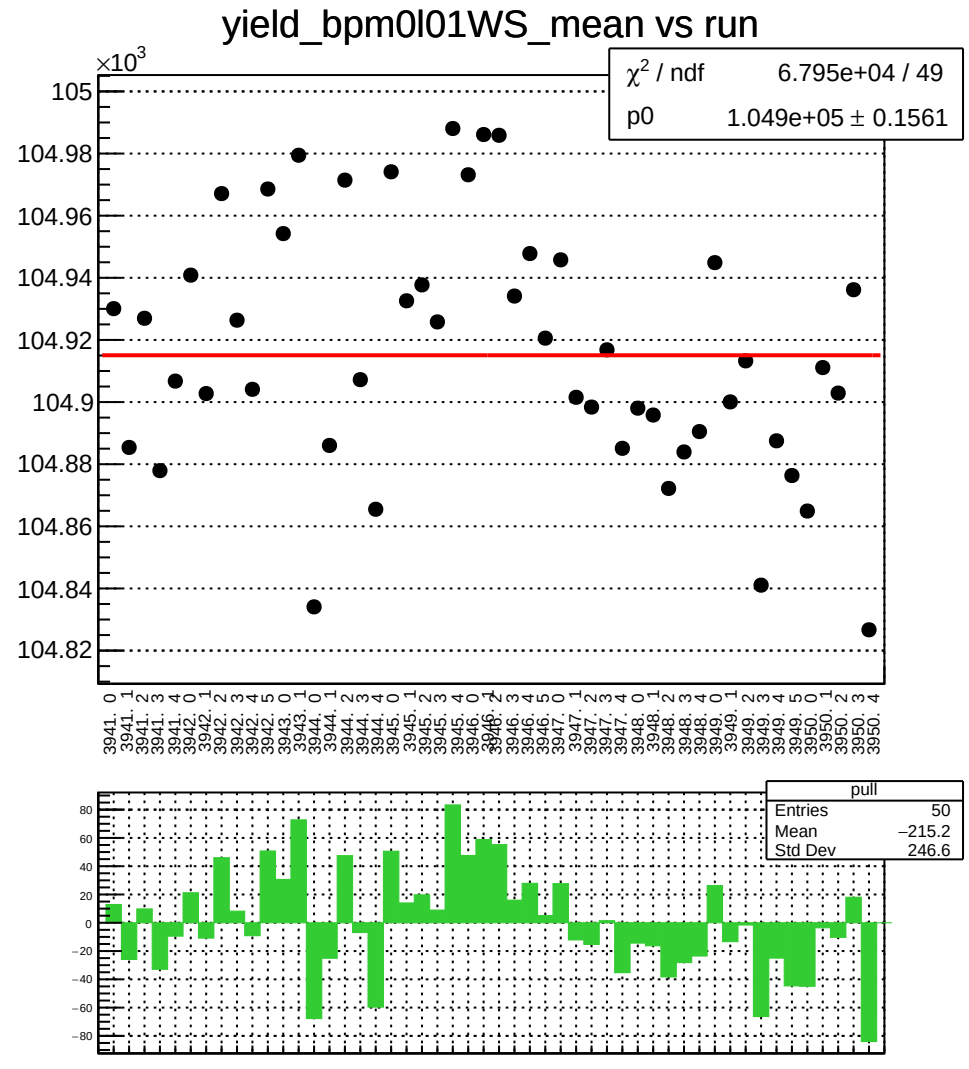

pull1D
Entries 50
Mean 2.109
Std Dev 4.328
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

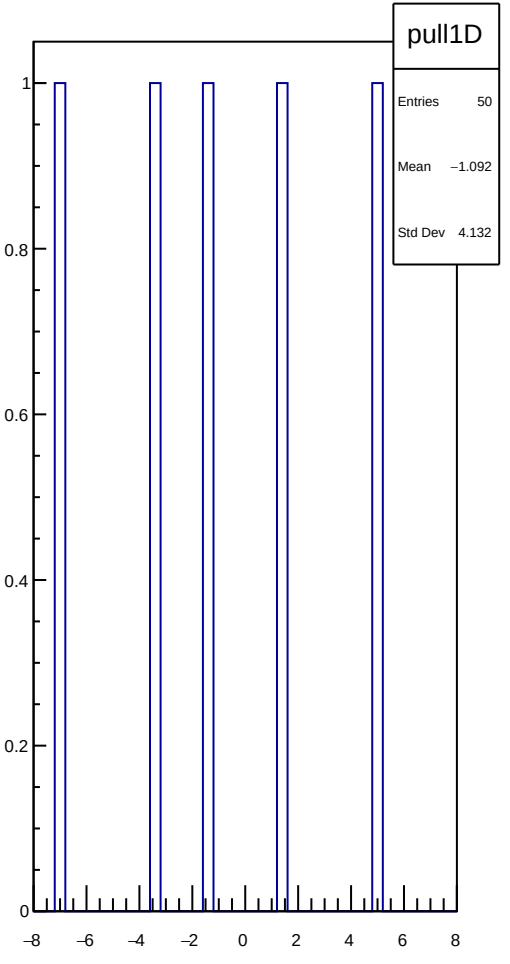

yield_bpm2i01WS_rms vs run
χ² / ndf 1.203e+05 / 49
p0 119 ± 0.1266
1000
800
600
400
200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

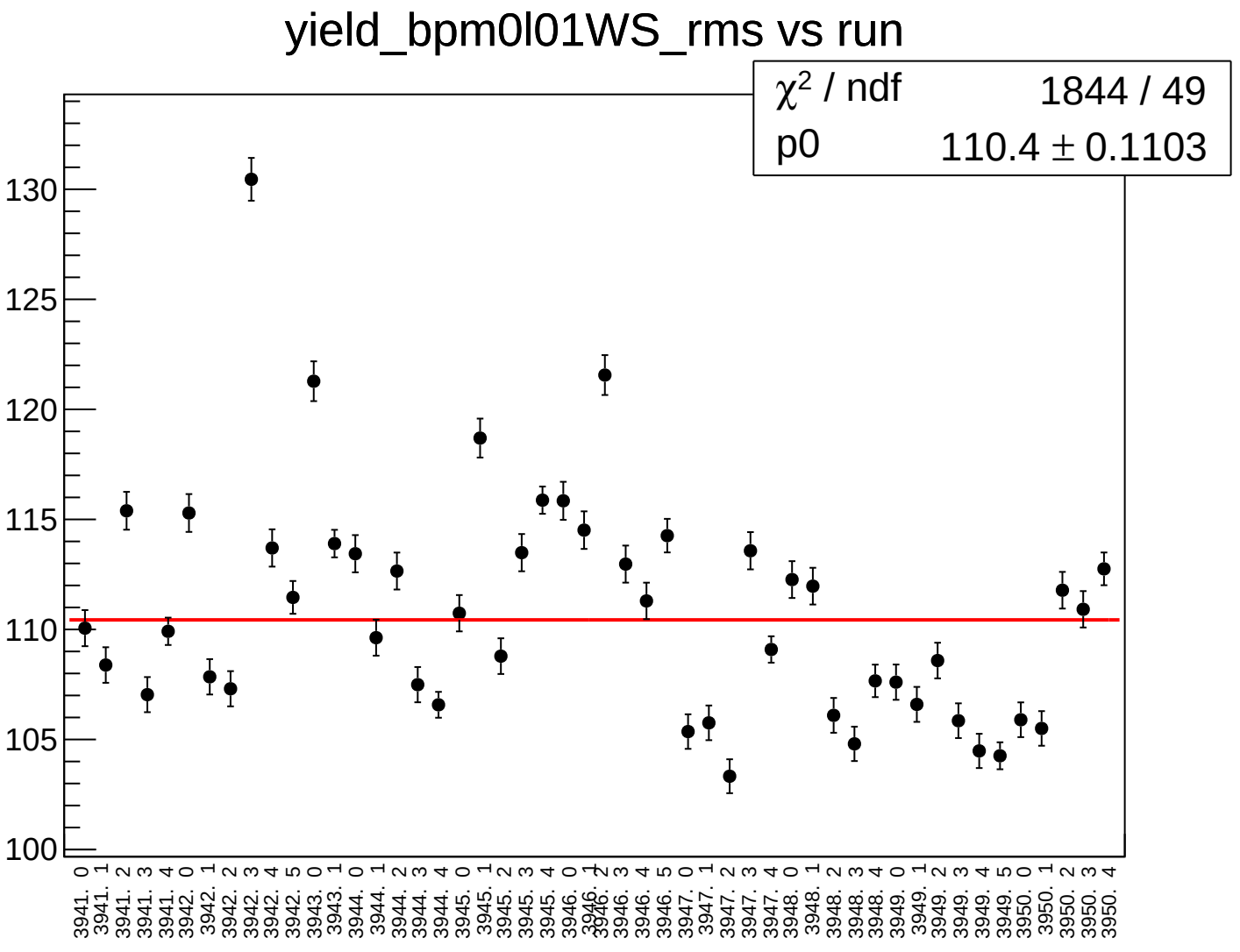

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 8727 / 49
p0 1.213e+05 ± 0.3007
121.36
121.34
121.32
121.3
121.28
121.26
121.24
121.22
pull
Entries 50
Mean −261.8
Std Dev 286
30
20
10
0
−10
−20
−30

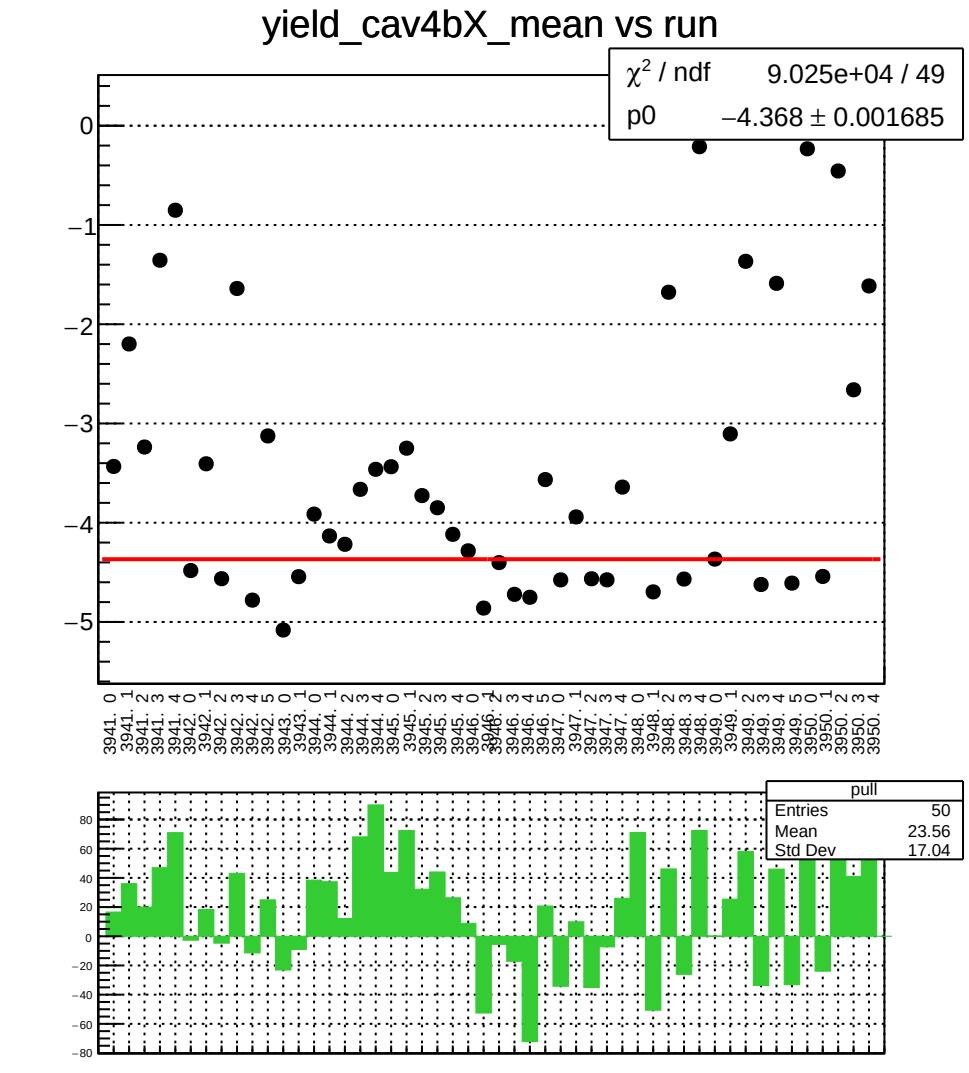

pull1D
Entries 50
Mean −0.6898
Std Dev 3.71
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

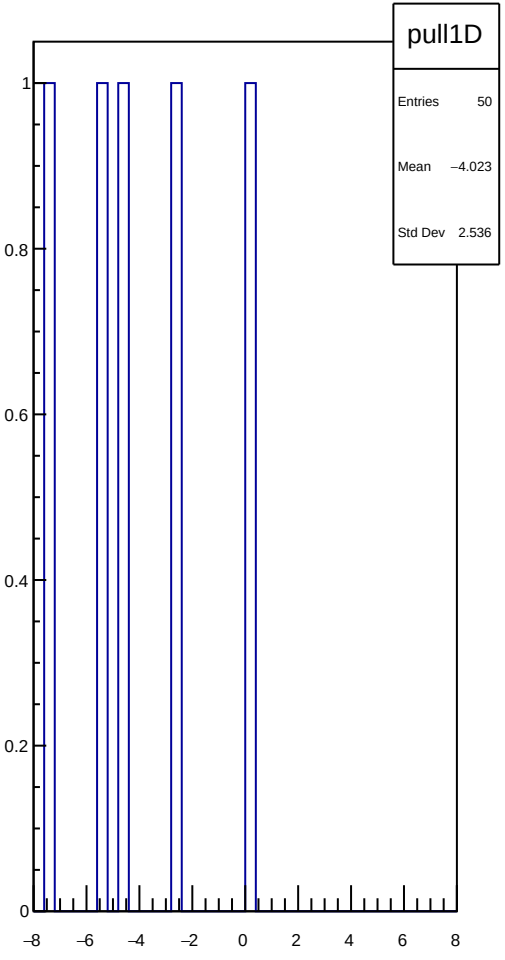

yield_bpm0i07WS_rms vs run
χ² / ndf 726.6 / 49
p0 212.9 ± 0.2126
225
220
215
210
205
200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

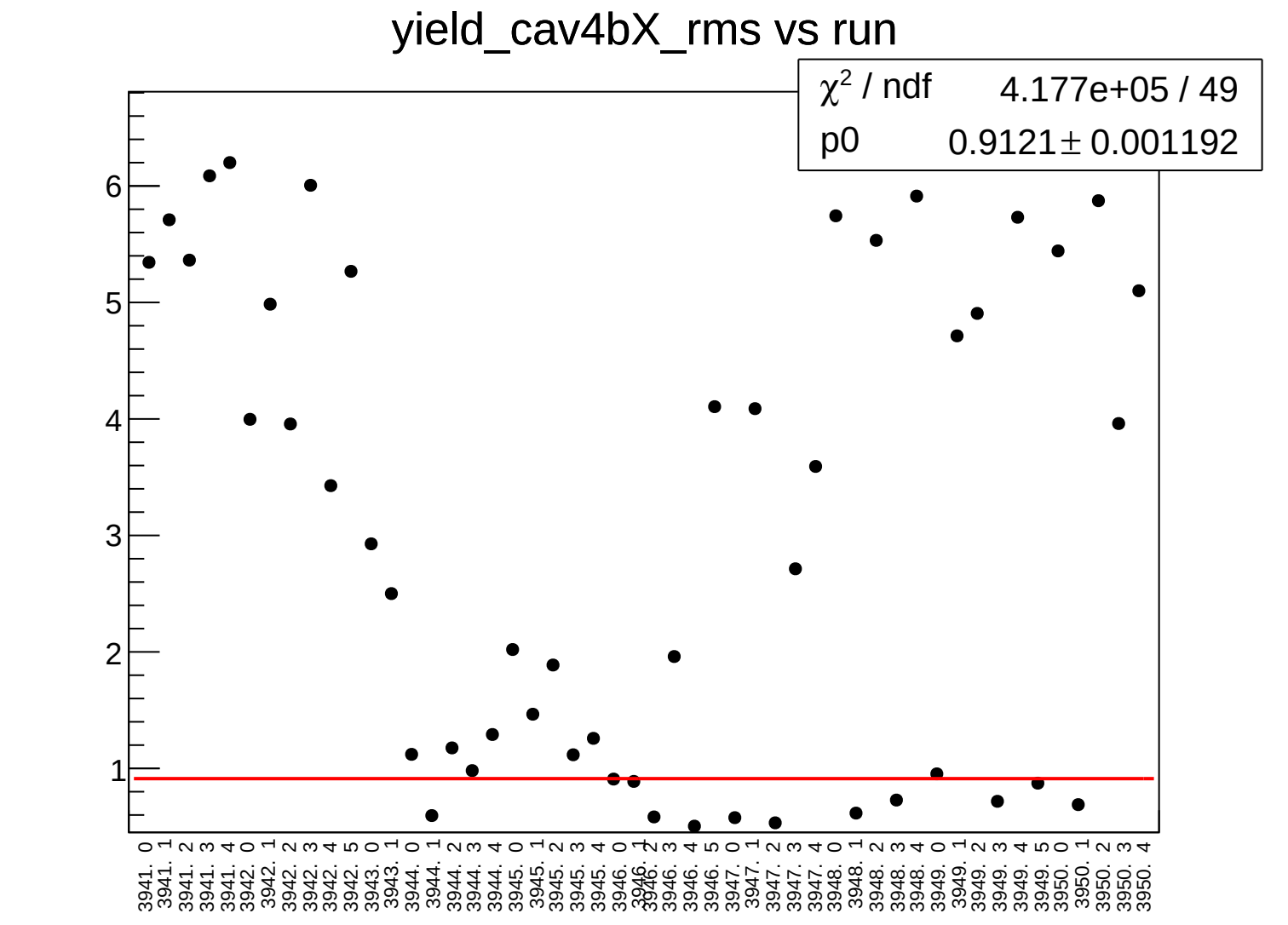

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.795e+04 / 49
p0 1.049e+05 ± 0.1561
105
104.98
104.96
104.94
104.92
104.9
104.88
104.86
104.84
104.82
pull
Entries 50
Mean −215.2
Std Dev 246.6
80
60
40
20
0
−20
−40
−60
−80

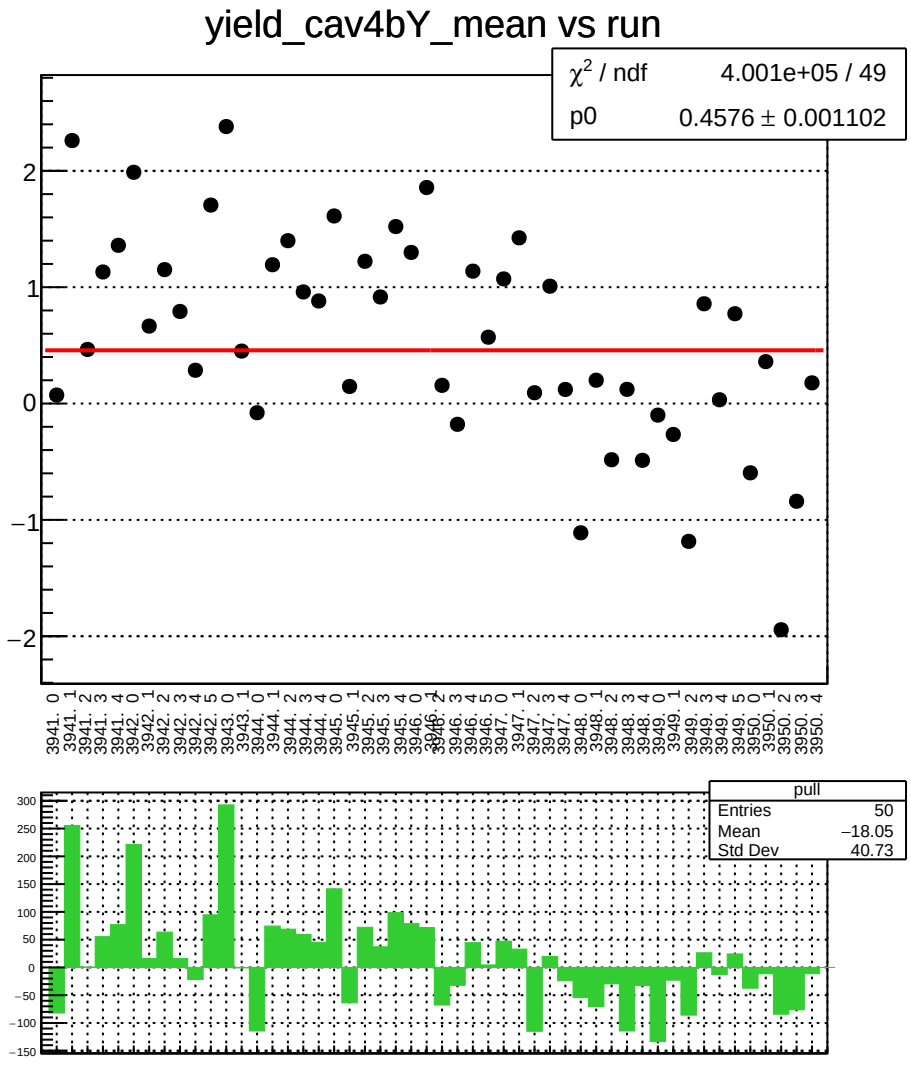

pull1D
Entries 50
Mean −1.092
Std Dev 4.132
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

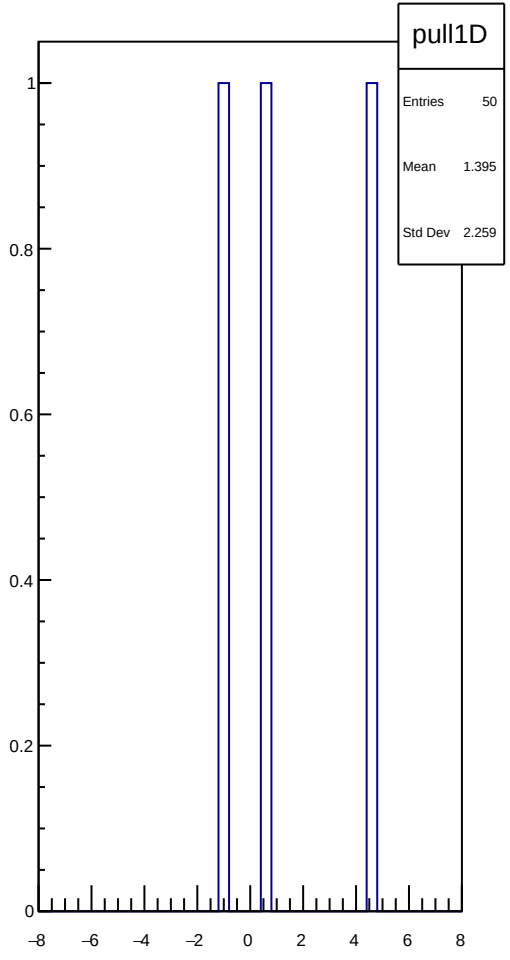

yield_bpm0l01WS_rms vs run
χ² / ndf 1844 / 49
p0 110.4 ± 0.1103
130
125
120
115
110
105
100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

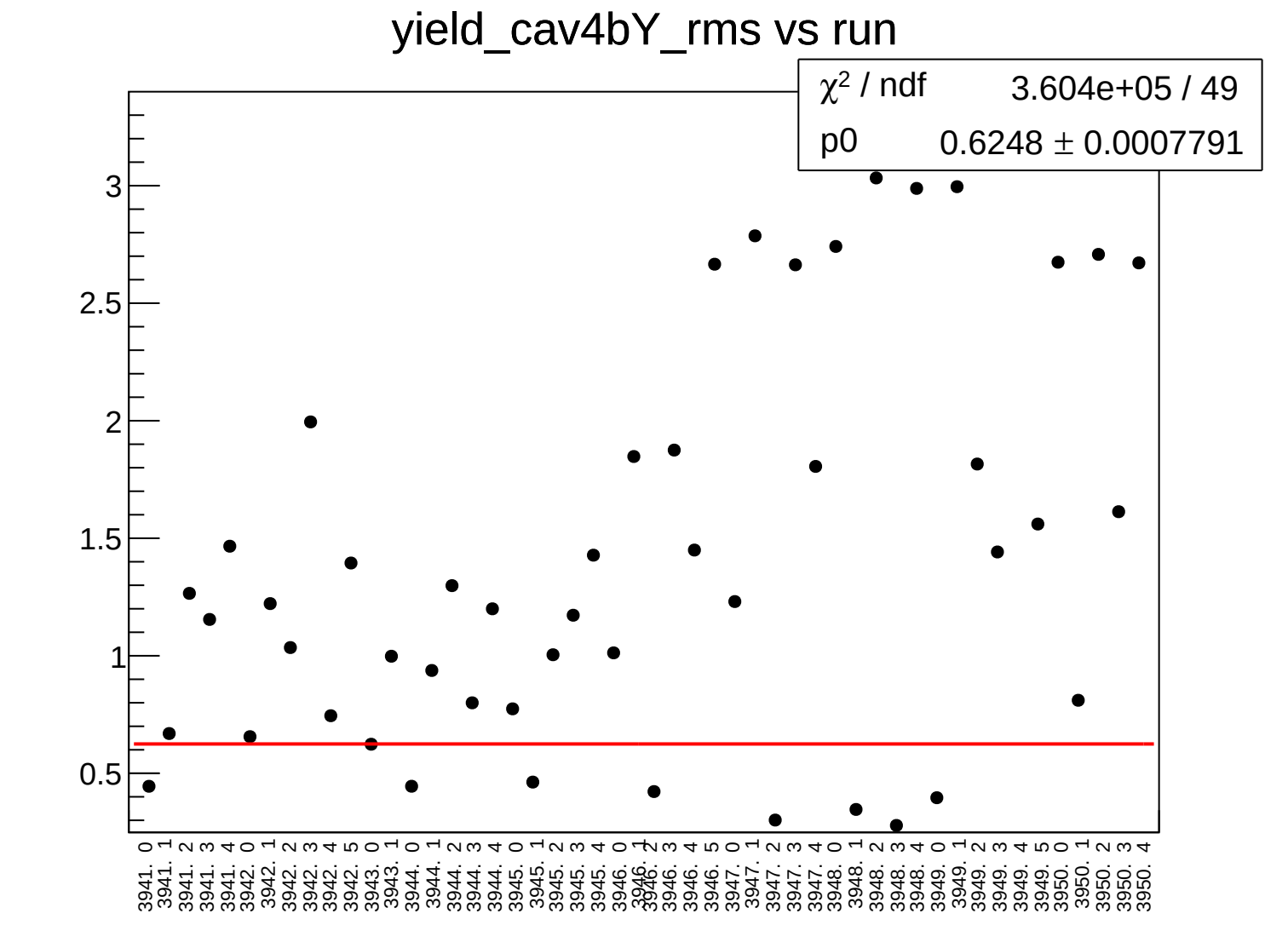

yield_cav4bX_mean vs run
χ² / ndf 9.025e+04 / 49
p0 −4.368 ± 0.001685
pull
Entries 50
Mean 23.56
Std Dev 17.04

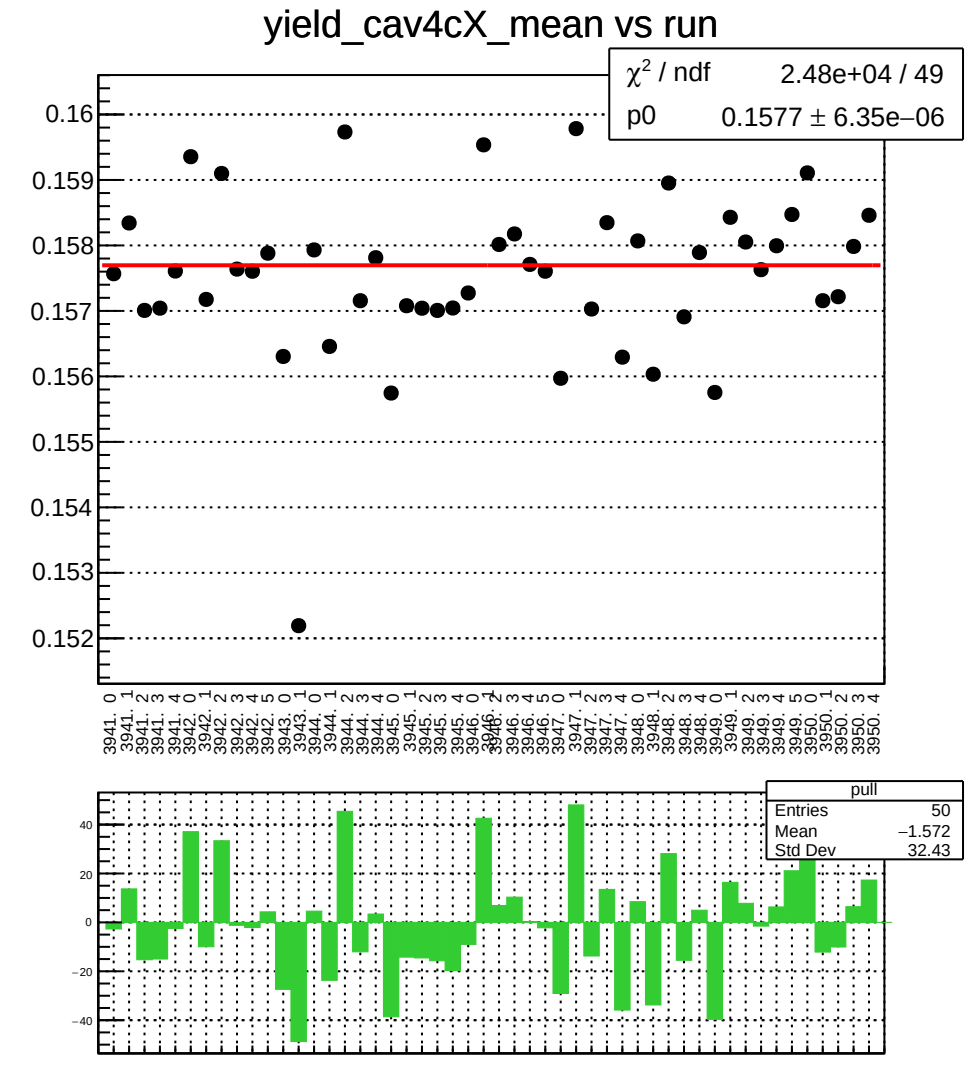

pull1D
Entries 50
Mean −4.023
Std Dev 2.536

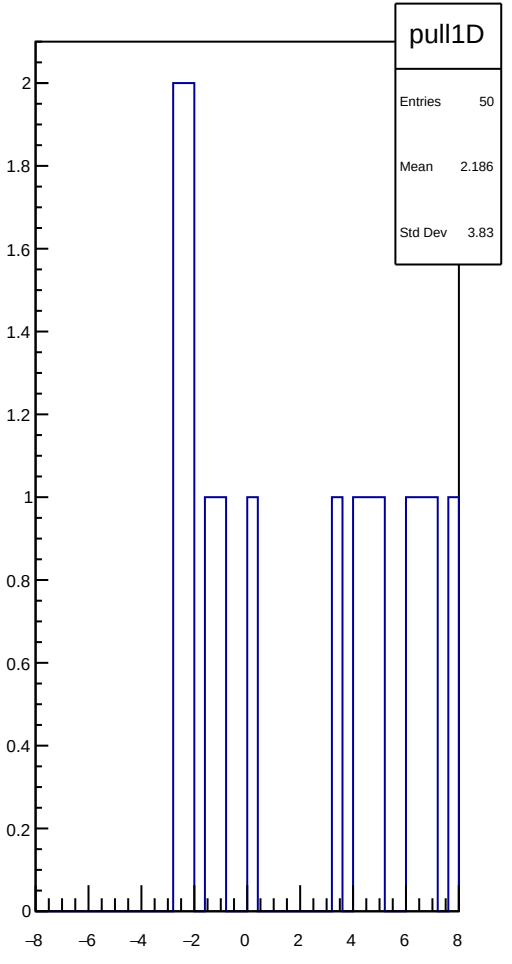

yield_cav4bX_rms vs run
χ² / ndf 4.177e+05 / 49
p0 0.9121 ± 0.001192
6
5
4
3
2
1
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

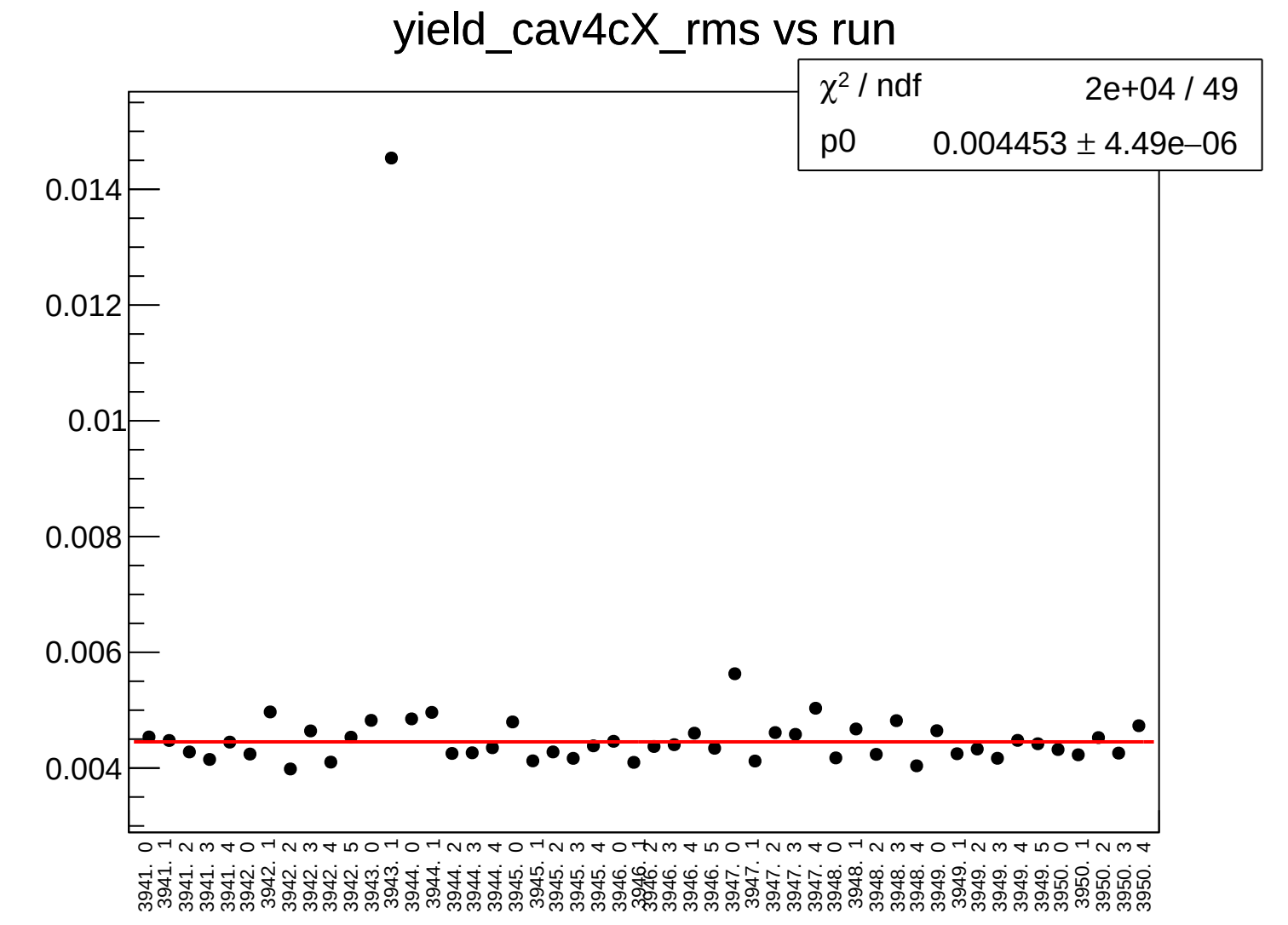

yield_cav4bY_mean vs run
χ² / ndf 4.001e+05 / 49
p0 0.4576 ± 0.001102
pull
Entries 50
Mean −18.05
Std Dev 40.73

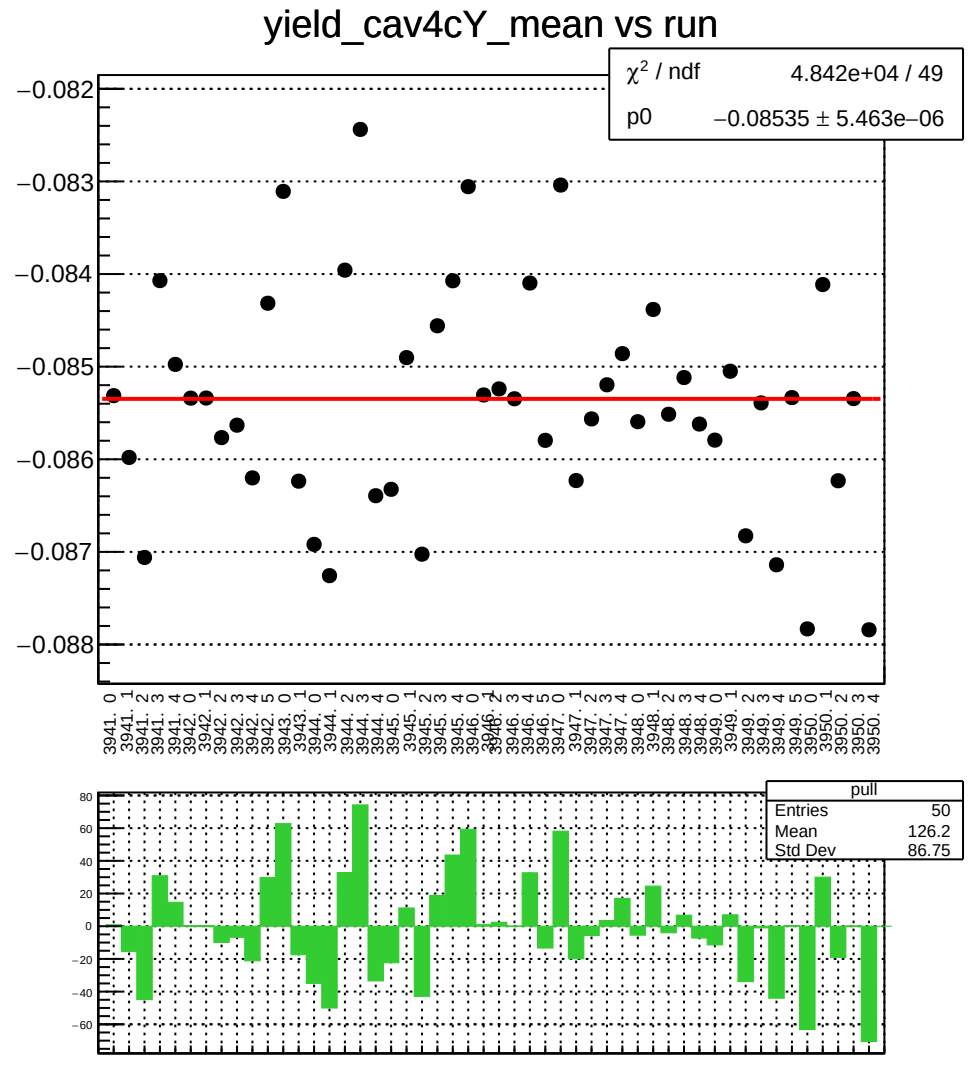

pull1D
Entries 50
Mean 1.395
Std Dev 2.259

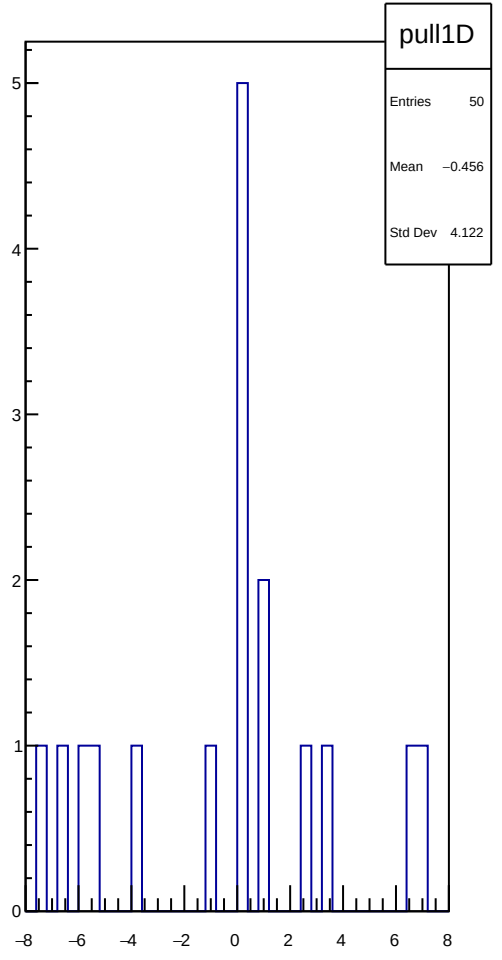

yield_cav4bY_rms vs run
χ² / ndf 3.604e+05 / 49
p0 0.6248 ± 0.0007791
3
2.5
2
1.5
1
0.5
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

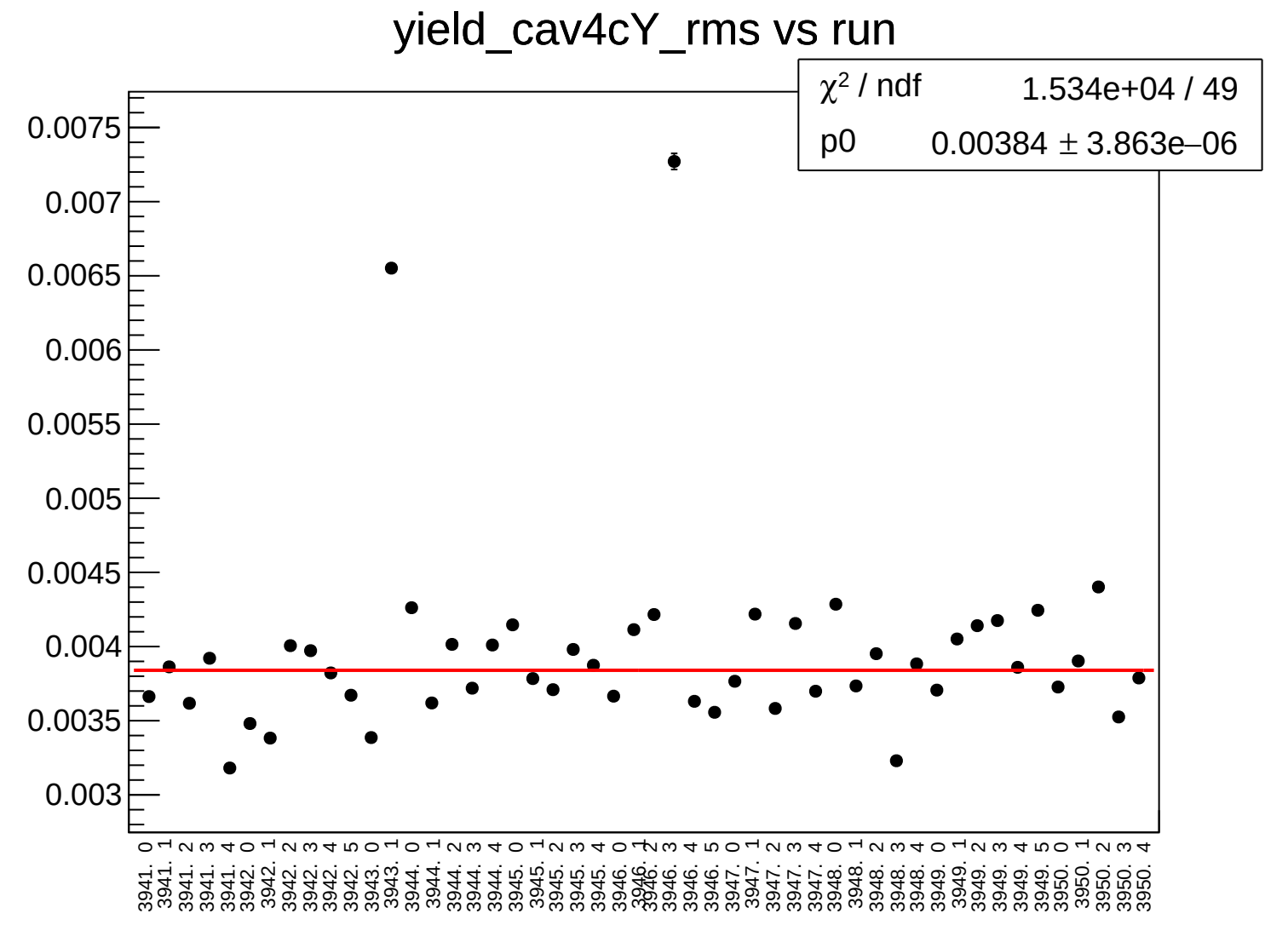

yield_cav4cX_mean vs run
χ² / ndf 2.48e+04 / 49
p0 0.1577 ± 6.35e−06
0.16
0.159
0.158
0.157
0.156
0.155
0.154
0.153
0.152
pull
Entries 50
Mean −1.572
Std Dev 32.43
40
20
0
−20
−40

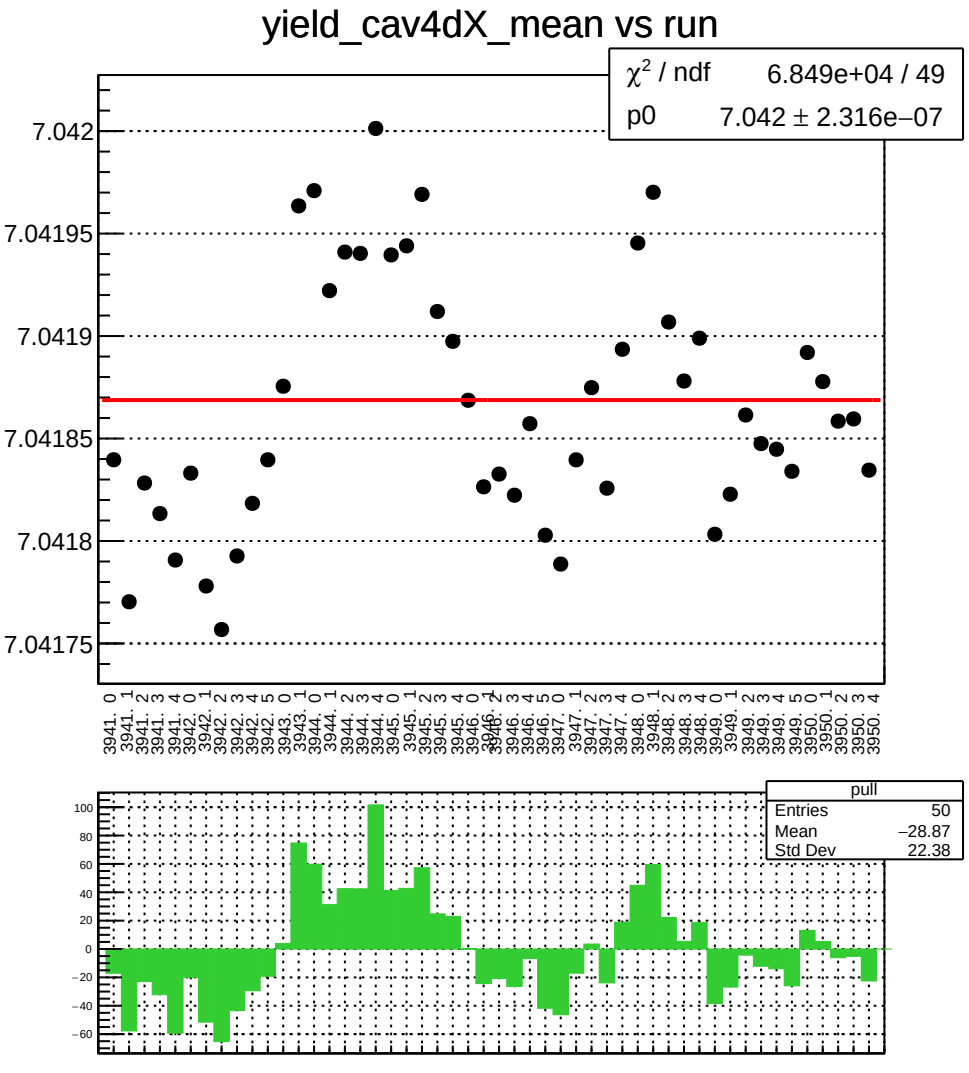

pull1D
Entries 50
Mean 2.186
Std Dev 3.83
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

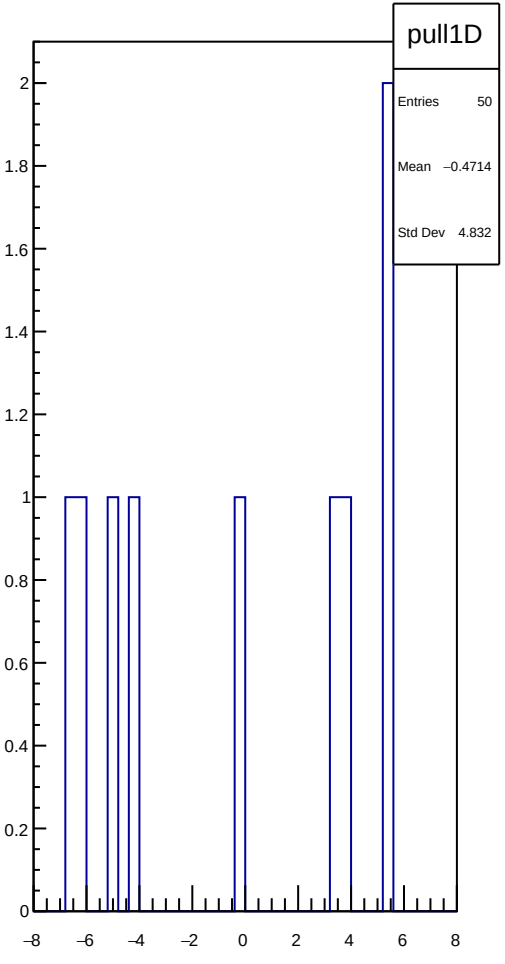

yield_cav4cX_rms vs run
χ² / ndf 2e+04 / 49
p0 0.004453 ± 4.49e–06
0.014
0.012
0.01
0.008
0.006
0.004
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

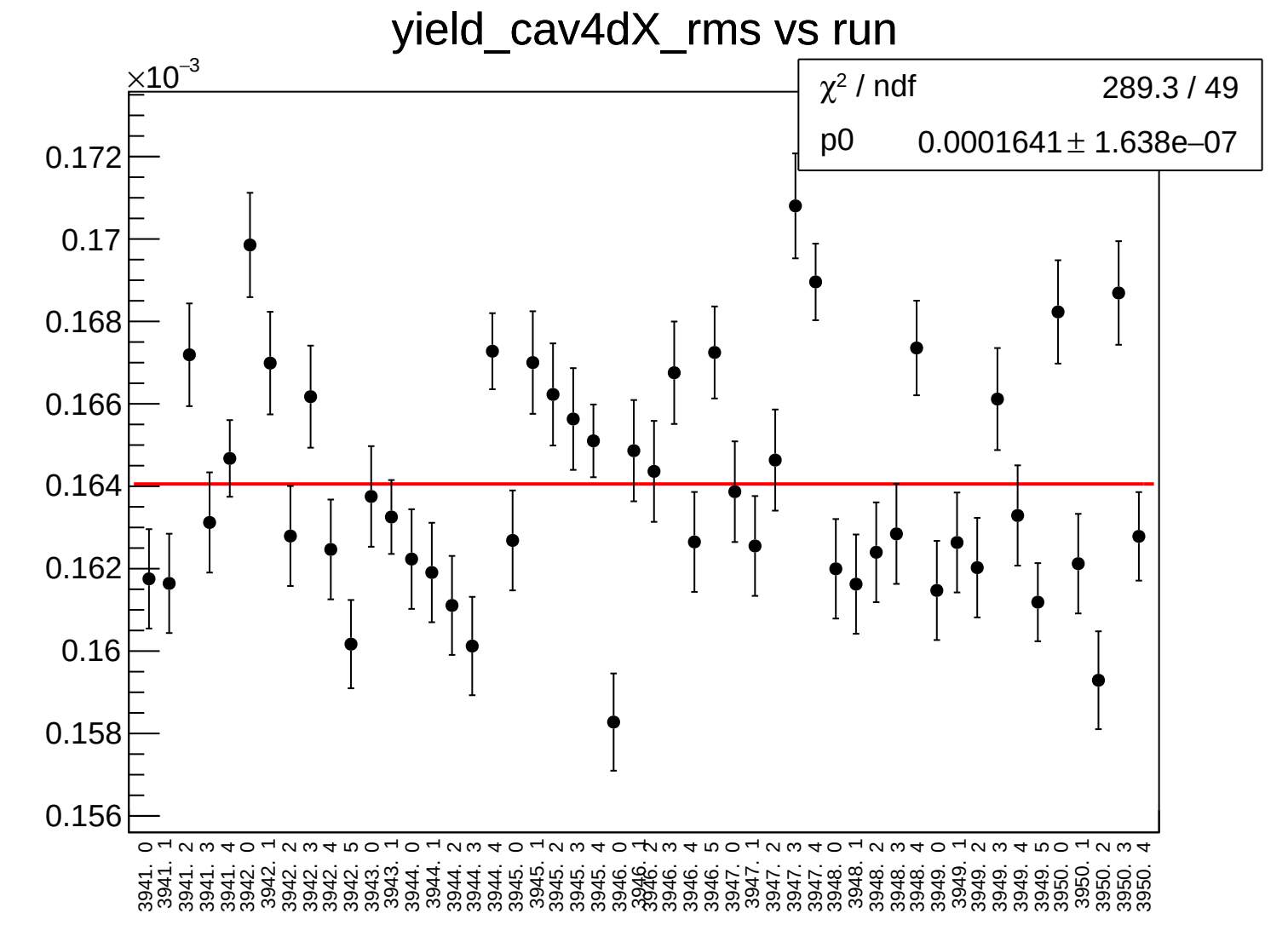

yield_cav4cY_mean vs run
χ² / ndf 4.842e+04 / 49
p0 −0.08535 ± 5.463e−06
−0.082
−0.083
−0.084
−0.085
−0.086
−0.087
−0.088
pull
Entries 50
Mean 126.2
Std Dev 86.75
80
60
40
20
0
−20
−40
−60

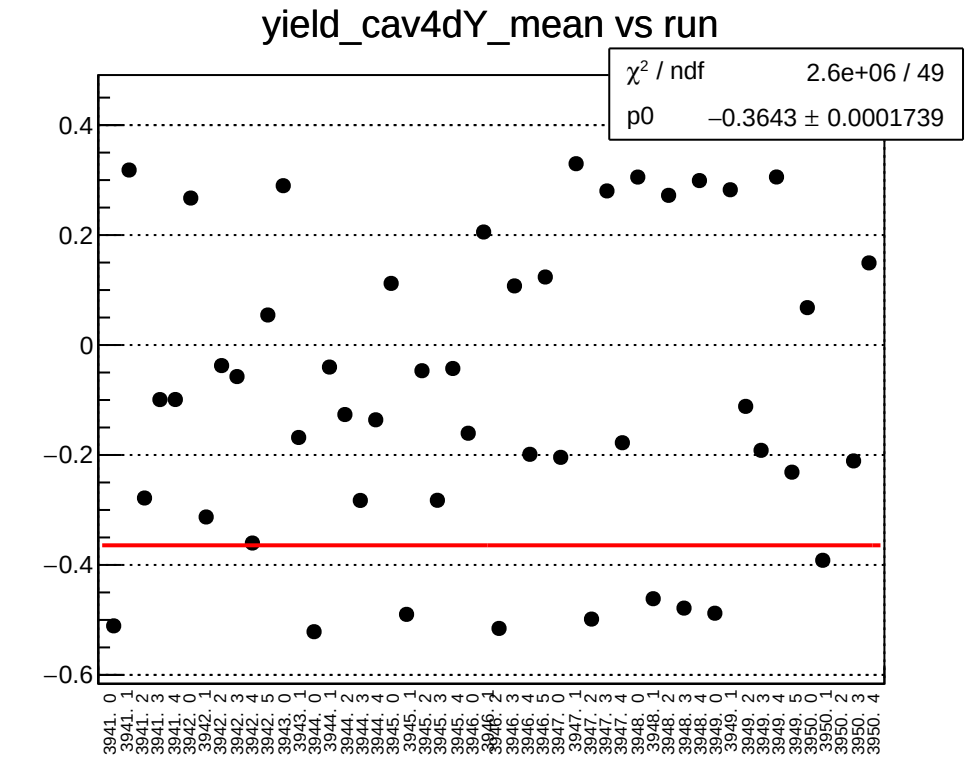

pull1D
Entries 50
Mean −0.456
Std Dev 4.122
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

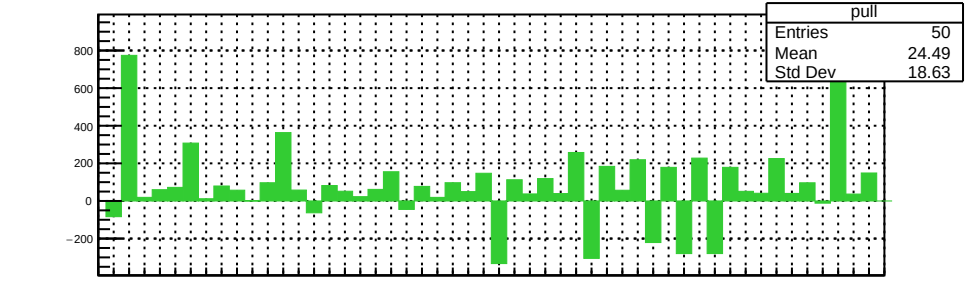

yield_cav4cY_rms vs run
χ² / ndf 1.534e+04 / 49
p0 0.00384 ± 3.863e–06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

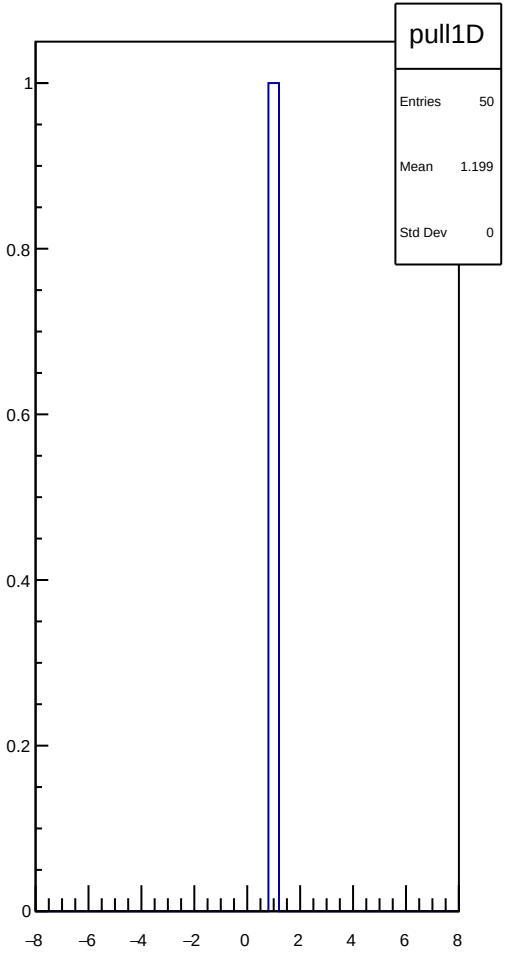

yield_cav4dX_mean vs run
χ² / ndf 6.849e+04 / 49
p0 7.042 ± 2.316e−07
7.042
7.04195
7.0419
7.04185
7.0418
7.04175
pull
Entries 50
Mean −28.87
Std Dev 22.38
100
80
60
40
20
0
−20
−40
−60

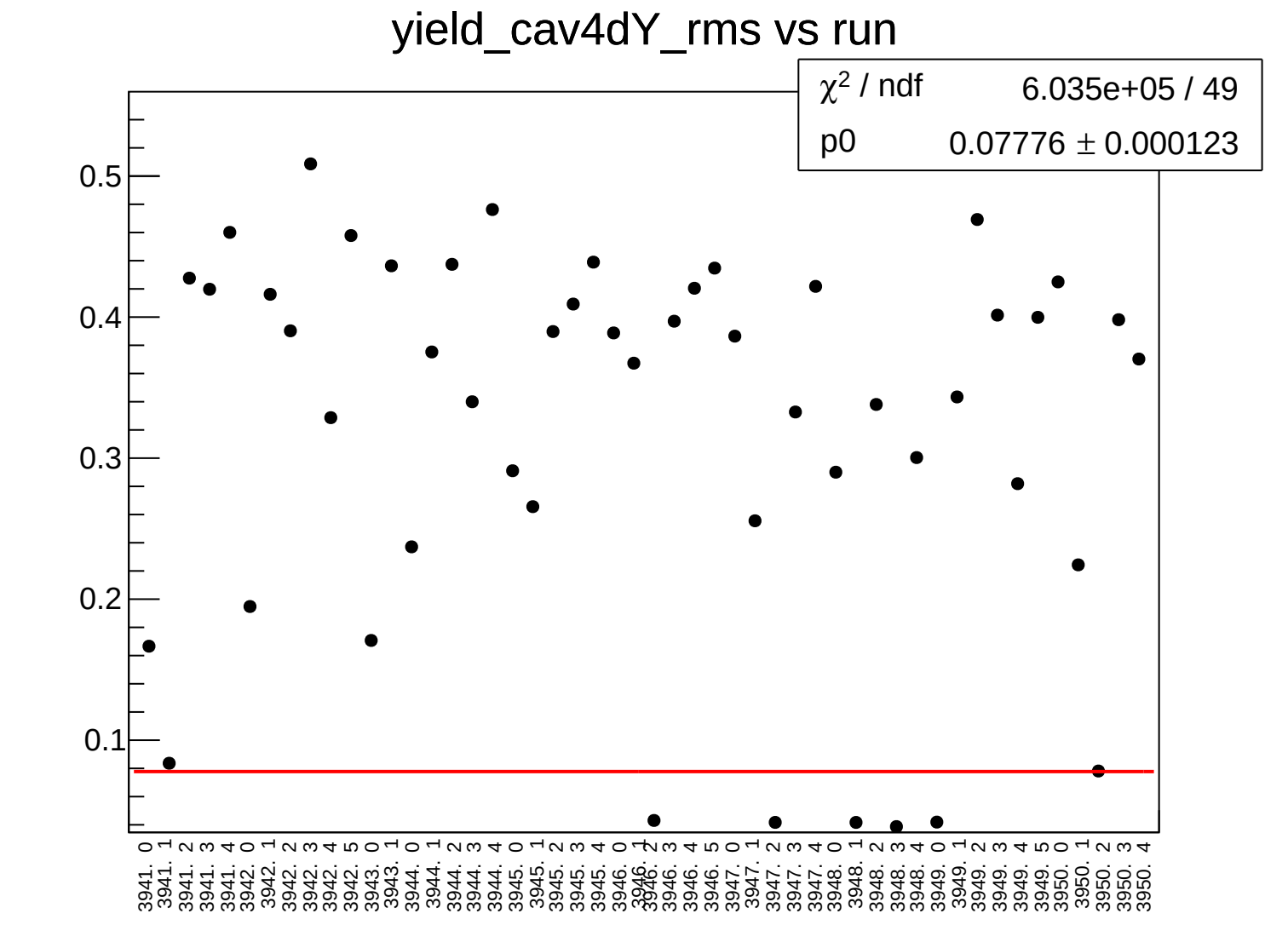

pull1D
Entries 50
Mean −0.4714
Std Dev 4.832
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

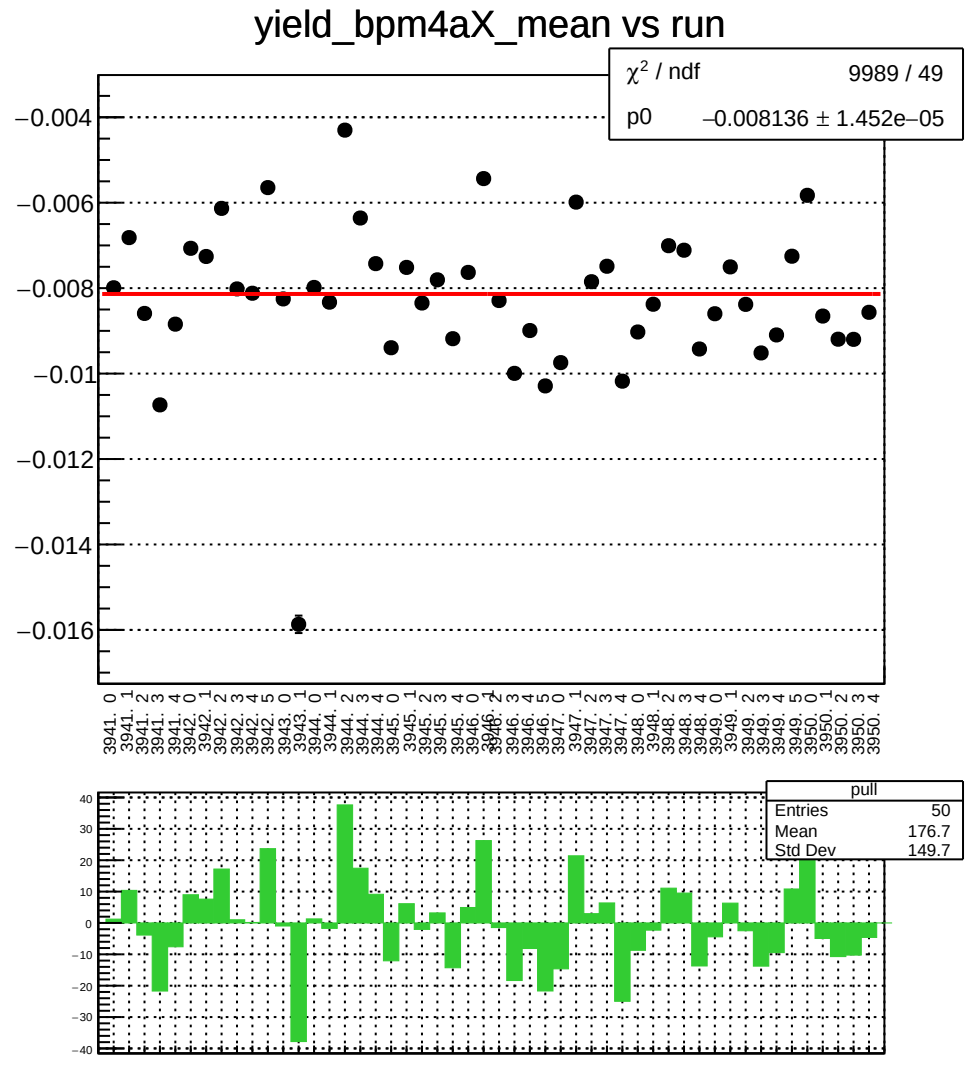

yield_cav4dX_rms vs run
×10⁻³
χ² / ndf 289.3 / 49
p0 0.0001641 ± 1.638e–07
0.172
0.17
0.168
0.166
0.164
0.162
0.16
0.158
0.156
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

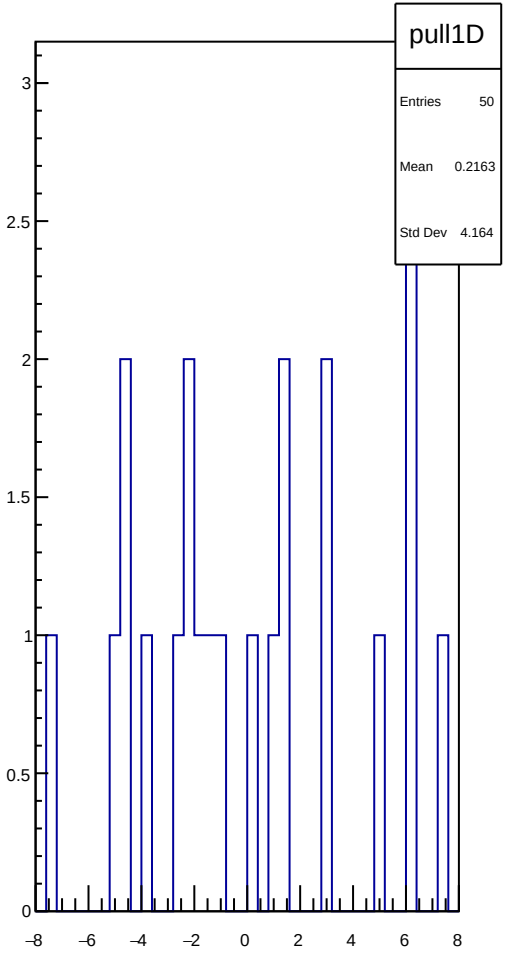

yield_cav4dY_mean vs run
χ² / ndf 2.6e+06 / 49
p0 −0.3643 ± 0.0001739
0.4
0.2
0
−0.2
−0.4
−0.6

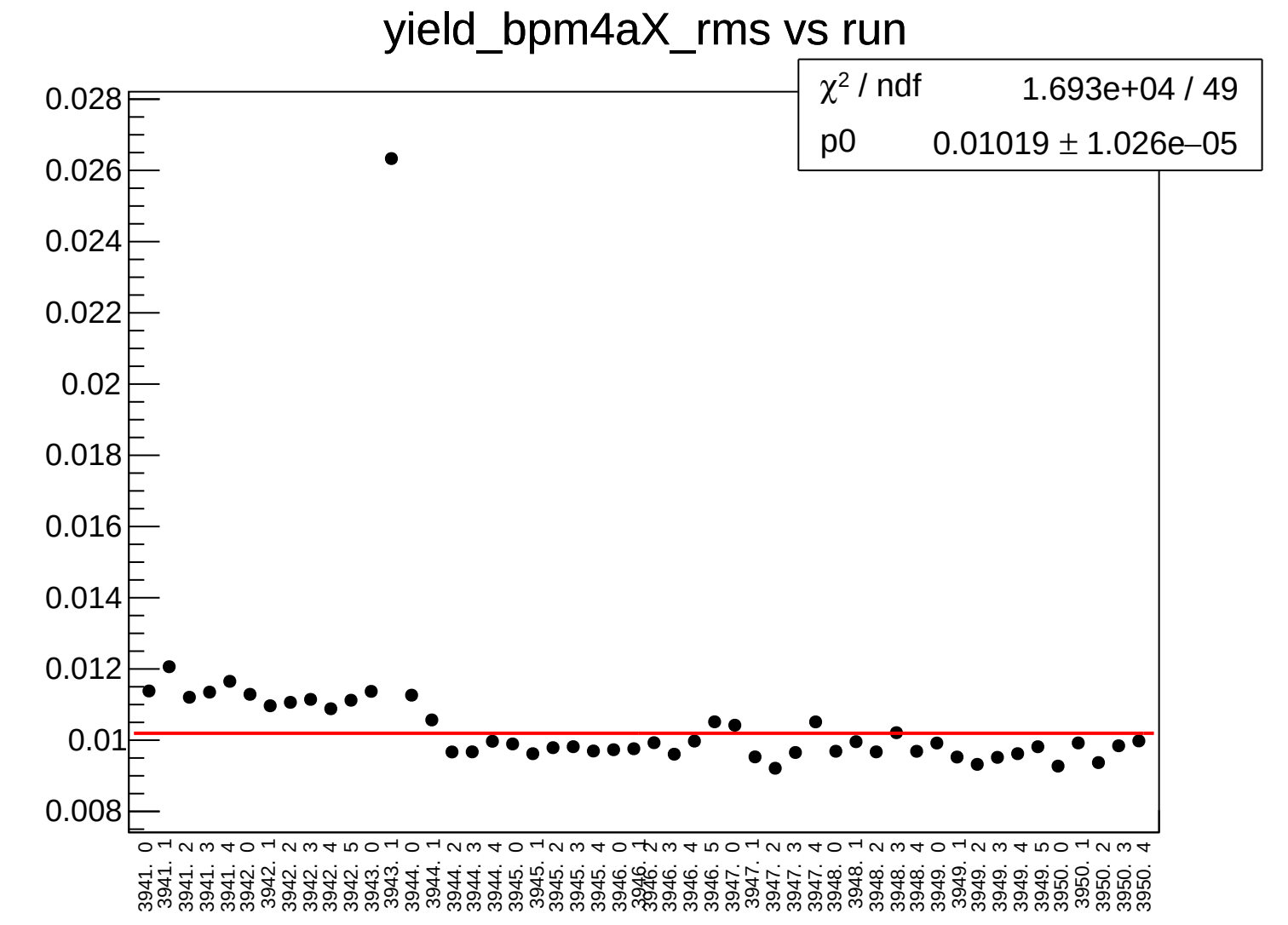

pull
Entries 50
Mean 24.49
Std Dev 18.63
800
600
400
200
0
−200

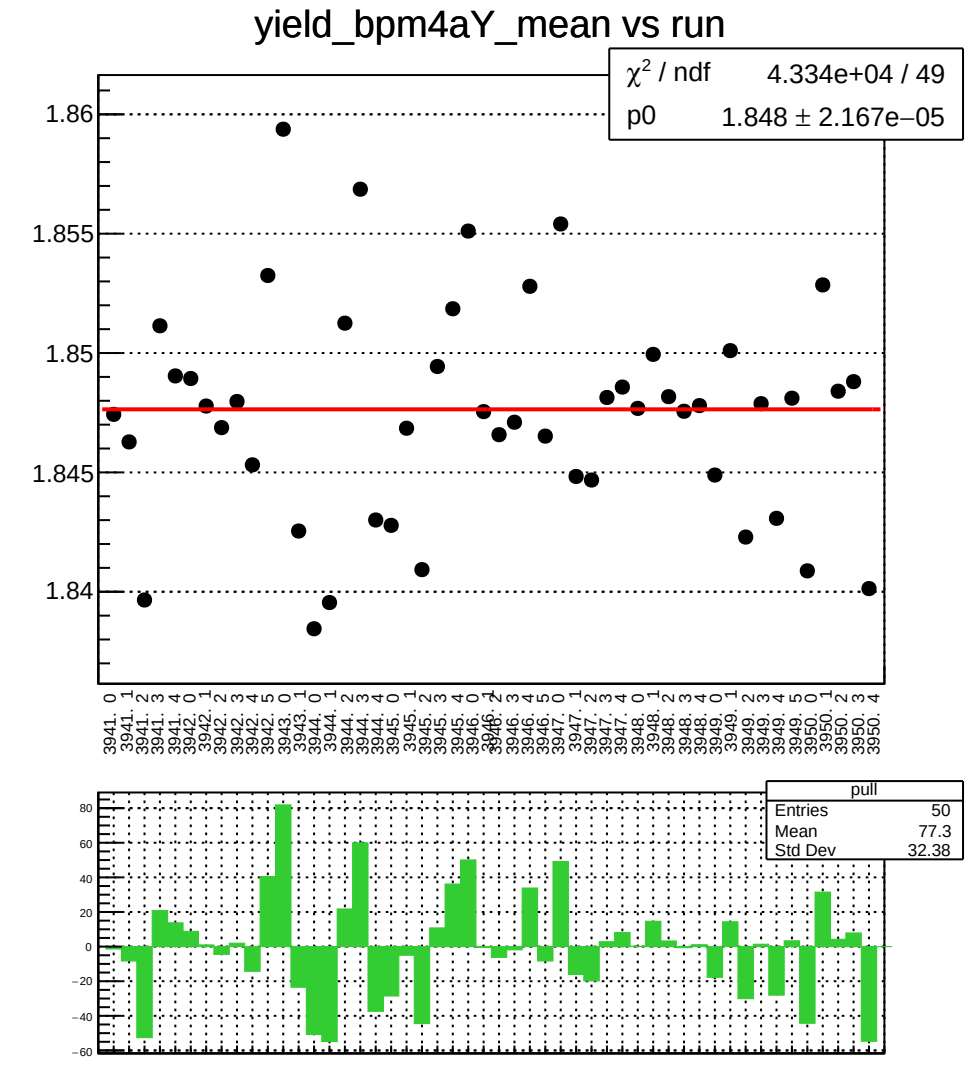

pull1D
Entries 50
Mean 1.199
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

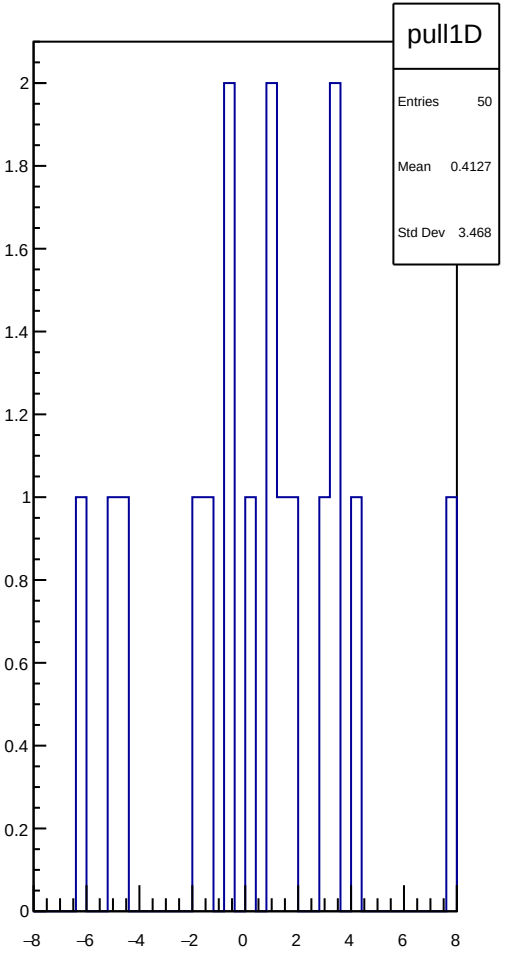

yield_cav4dY_rms vs run
χ² / ndf 6.035e+05 / 49
p0 0.07776 ± 0.000123
0.5
0.4
0.3
0.2
0.1
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

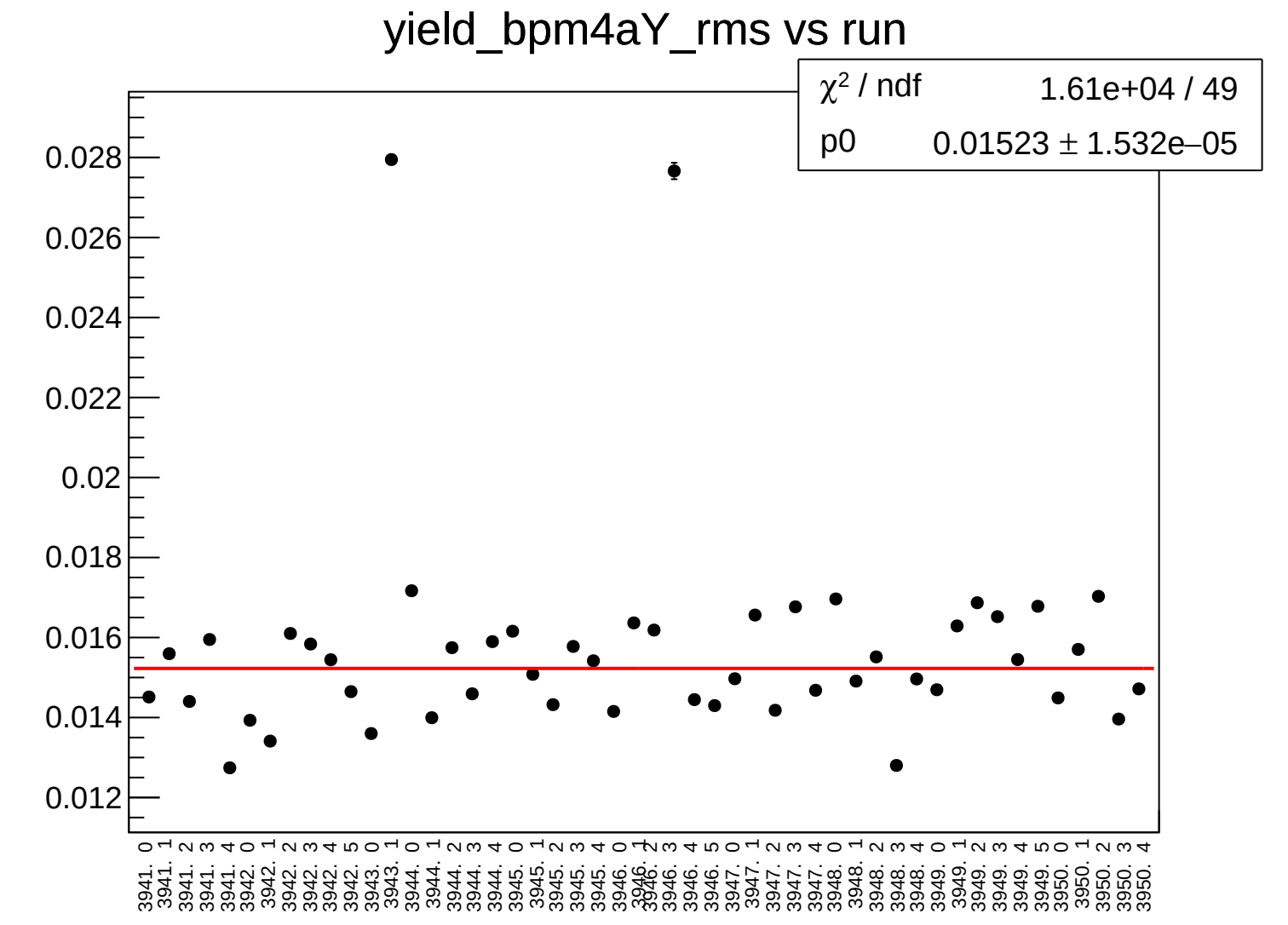

yield_bpm4aX_mean vs run
χ² / ndf 9989 / 49
p0 −0.008136 ± 1.452e−05
−0.004
−0.006
−0.008
−0.01
−0.012
−0.014
−0.016
pull
Entries 50
Mean 176.7
Std Dev 149.7
40
30
20
10
0
−10
−20
−30
−40

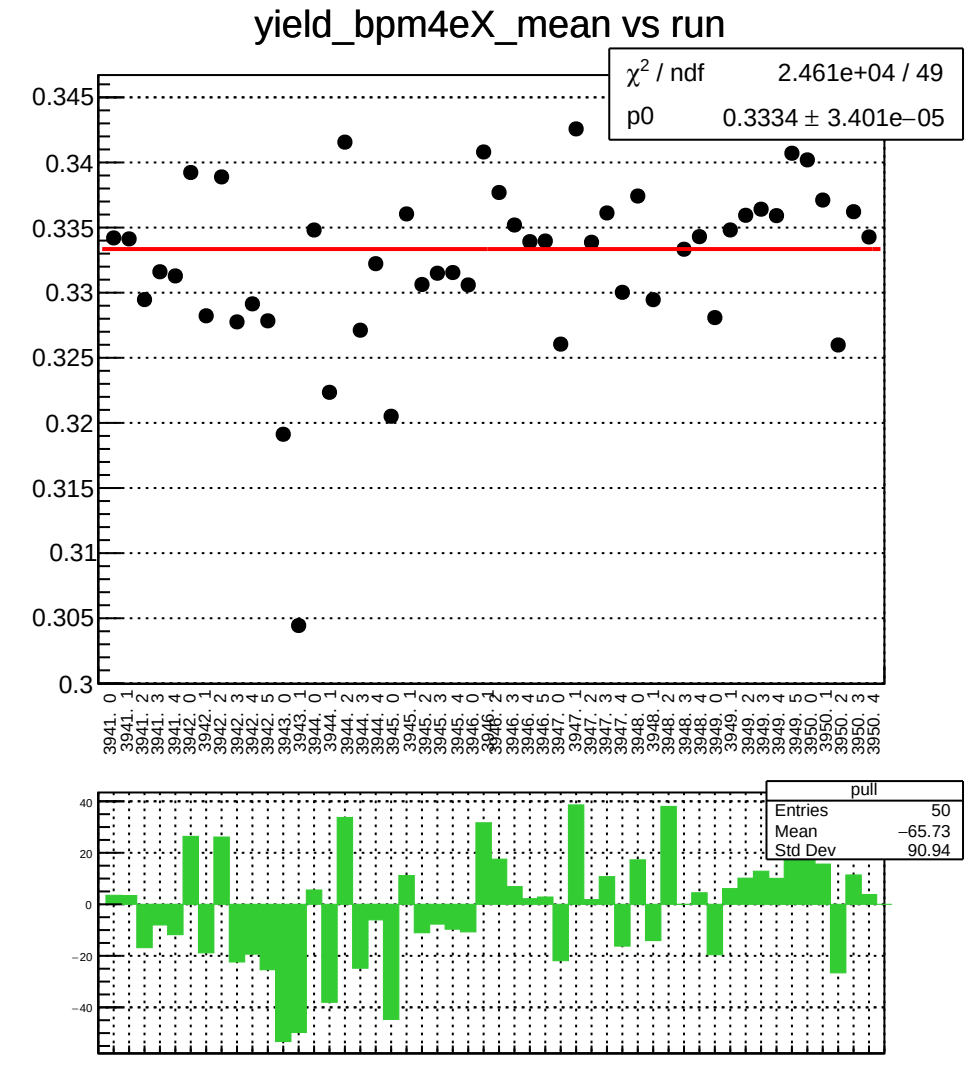

pull1D
Entries 50
Mean 0.2163
Std Dev 4.164
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

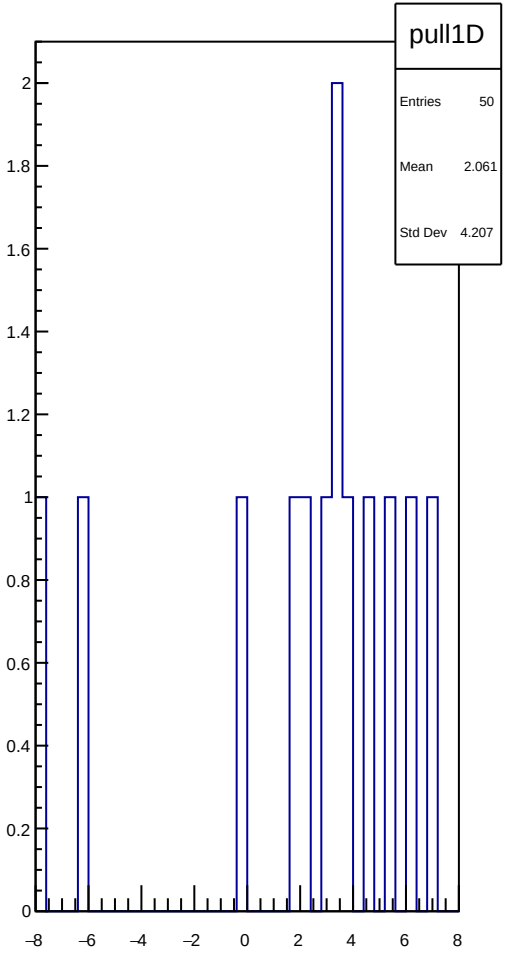

yield_bpm4aX_rms vs run
χ² / ndf 1.693e+04 / 49
p0 0.01019 ± 1.026e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

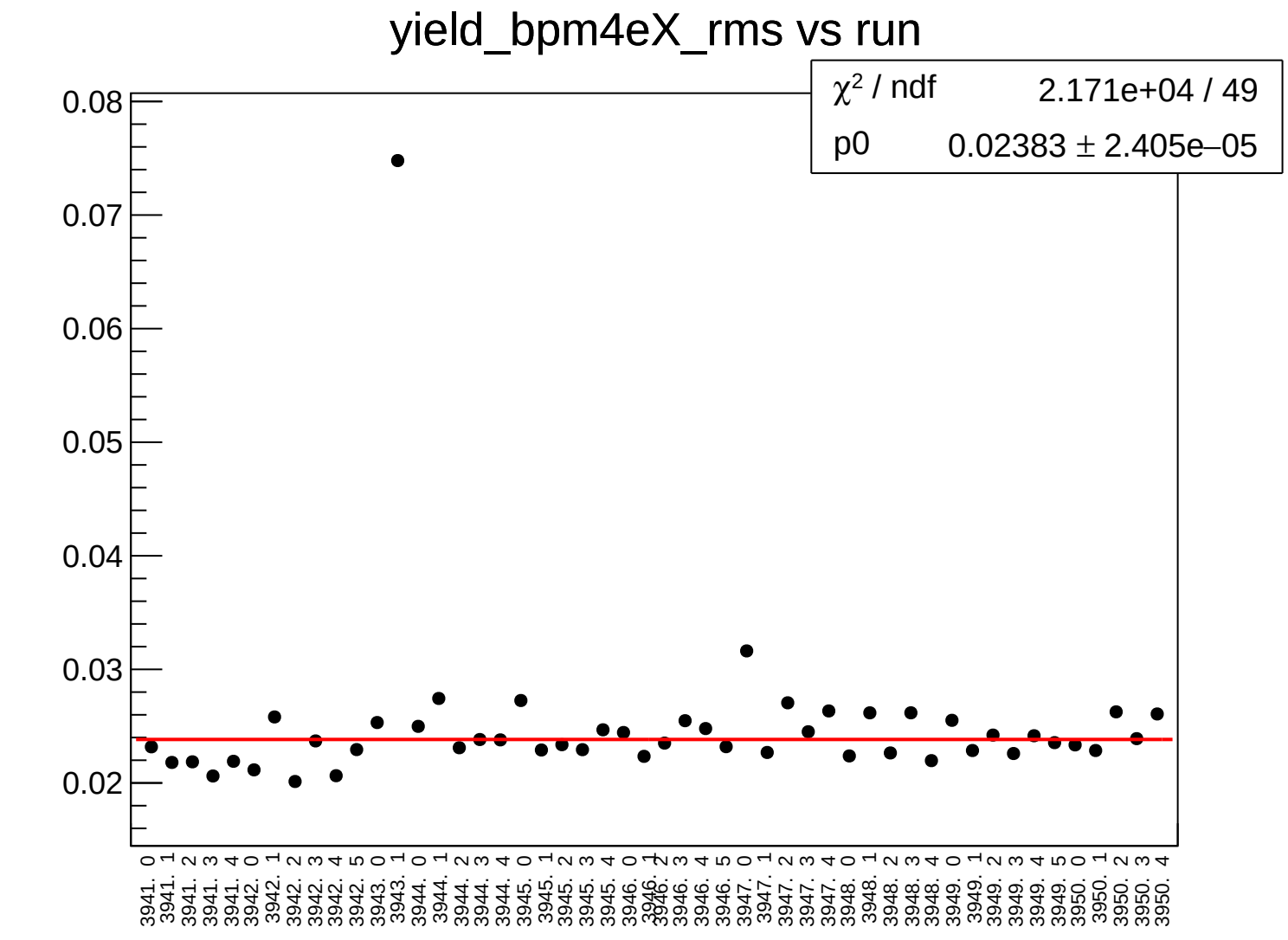

yield_bpm4aY_mean vs run
χ² / ndf 4.334e+04 / 49
p0 1.848 ± 2.167e−05
1.86
1.855
1.85
1.845
1.84
pull
Entries 50
Mean 77.3
Std Dev 32.38
80
60
40
20
0
−20
−40
−60

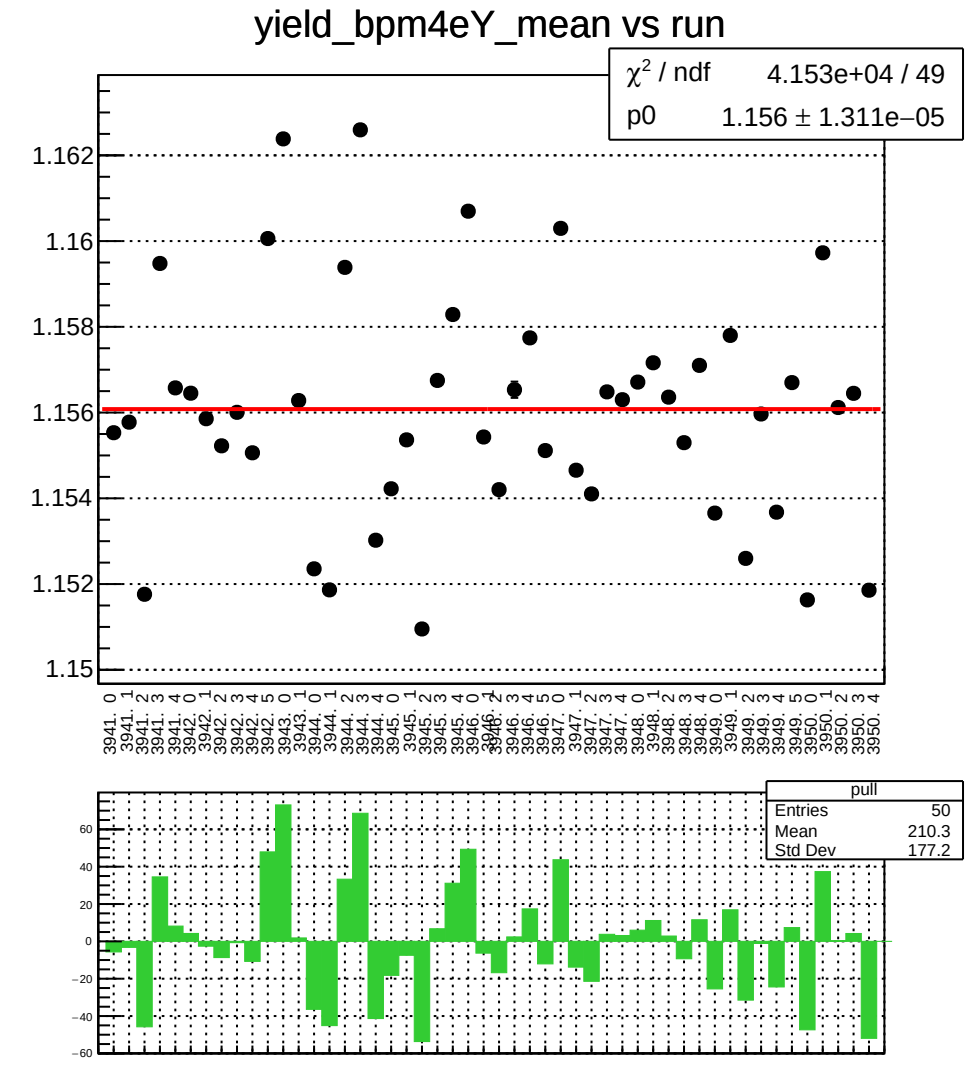

pull1D
Entries 50
Mean 0.4127
Std Dev 3.468
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

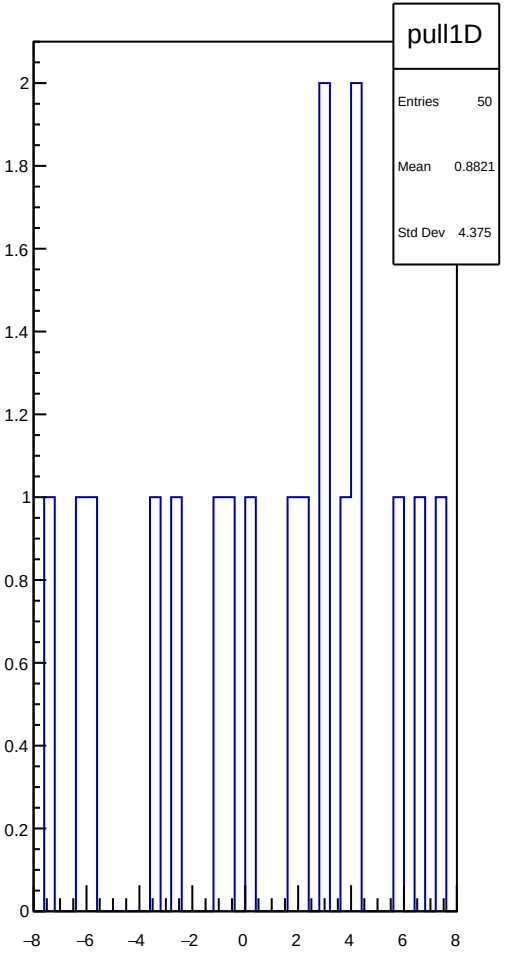

yield_bpm4aY_rms vs run
χ² / ndf 1.61e+04 / 49
p0 0.01523 ± 1.532e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

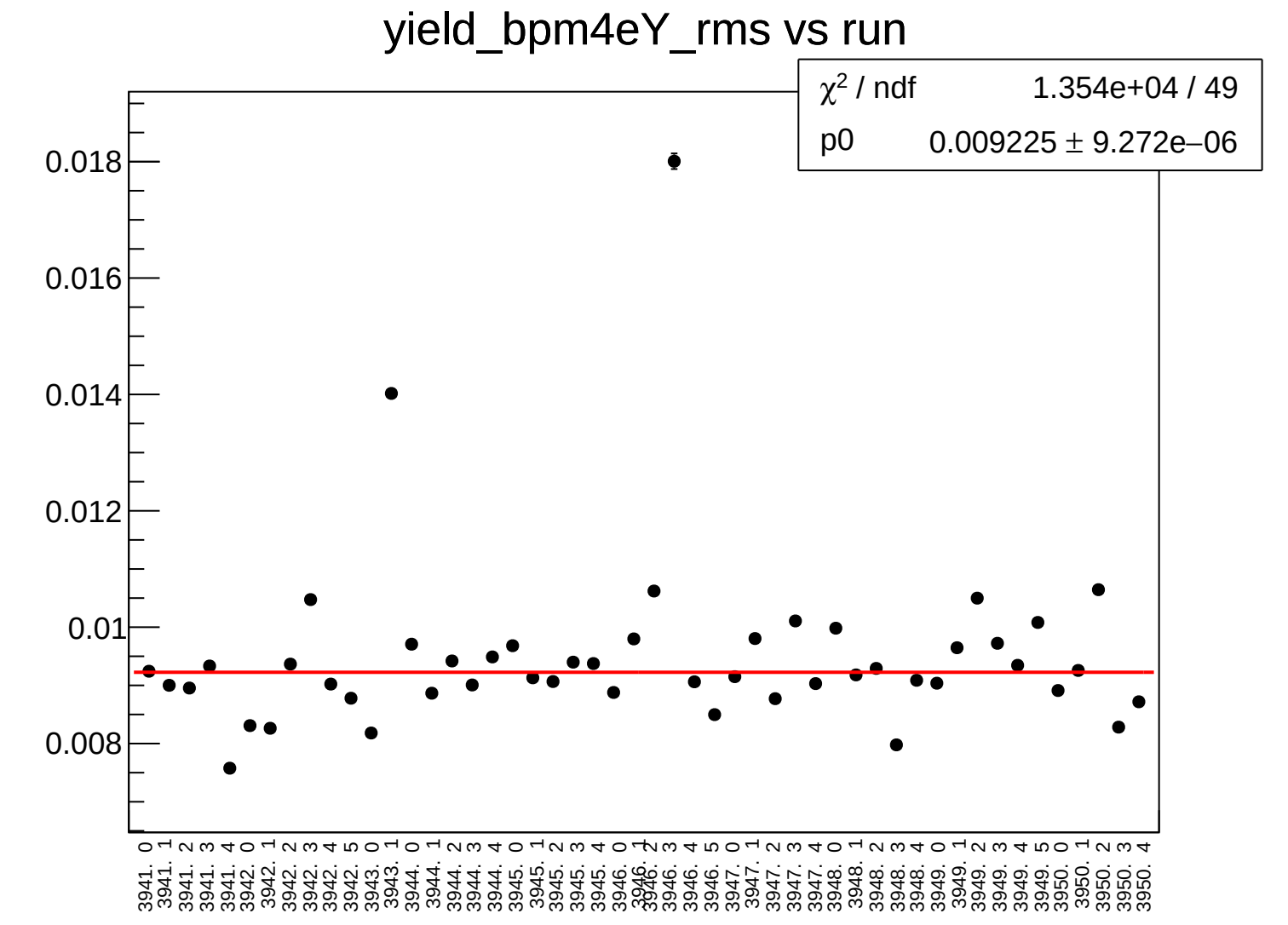

yield_bpm4eX_mean vs run
χ² / ndf 2.461e+04 / 49
p0 0.3334 ± 3.401e−05
pull
Entries 50
Mean −65.73
Std Dev 90.94

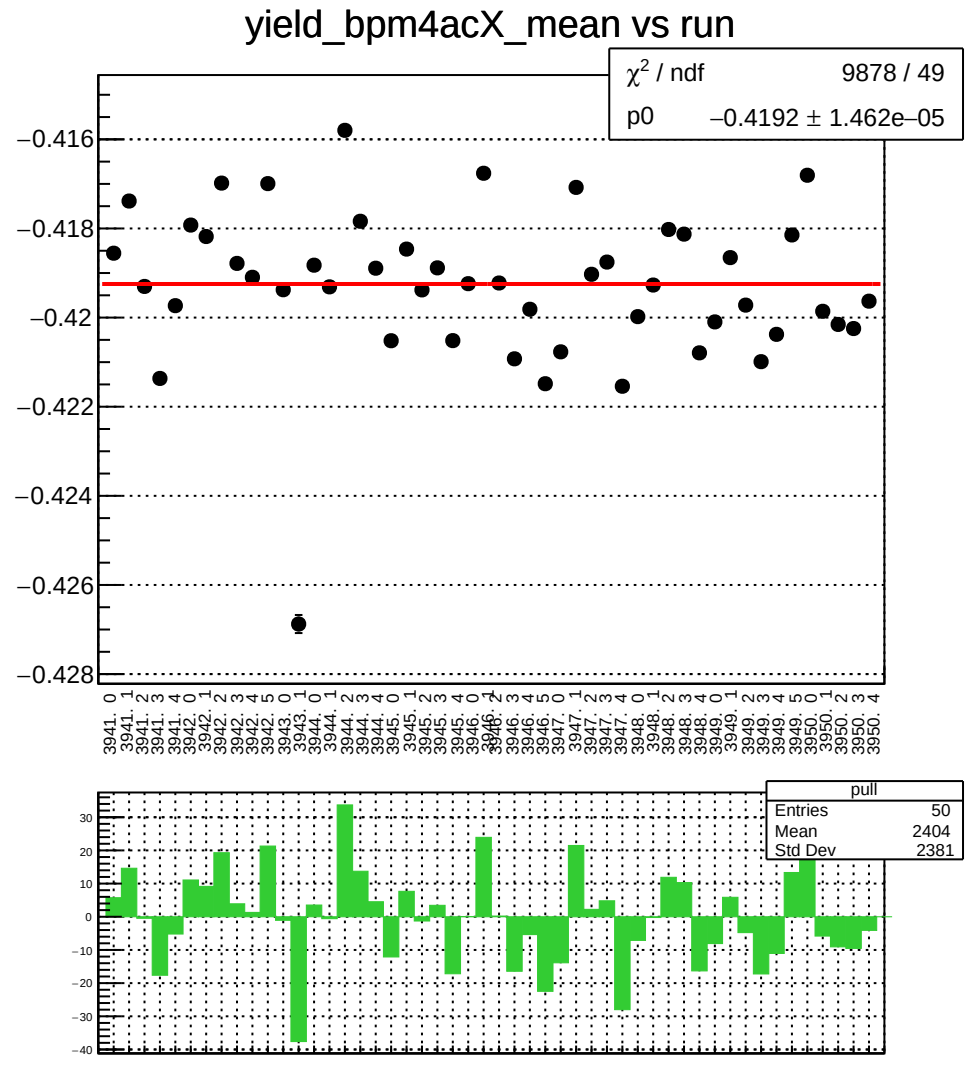

pull1D
Entries 50
Mean 2.061
Std Dev 4.207

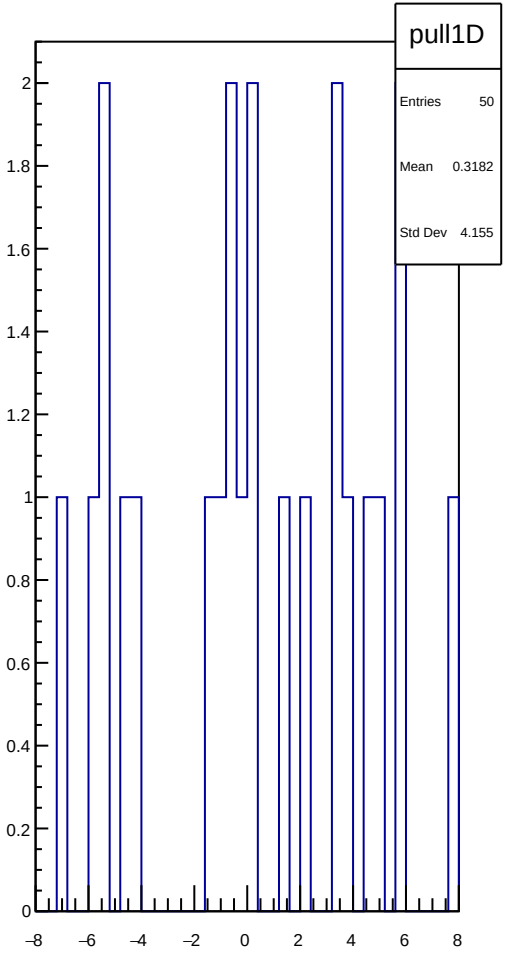

yield_bpm4eX_rms vs run
χ² / ndf 2.171e+04 / 49
p0 0.02383 ± 2.405e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

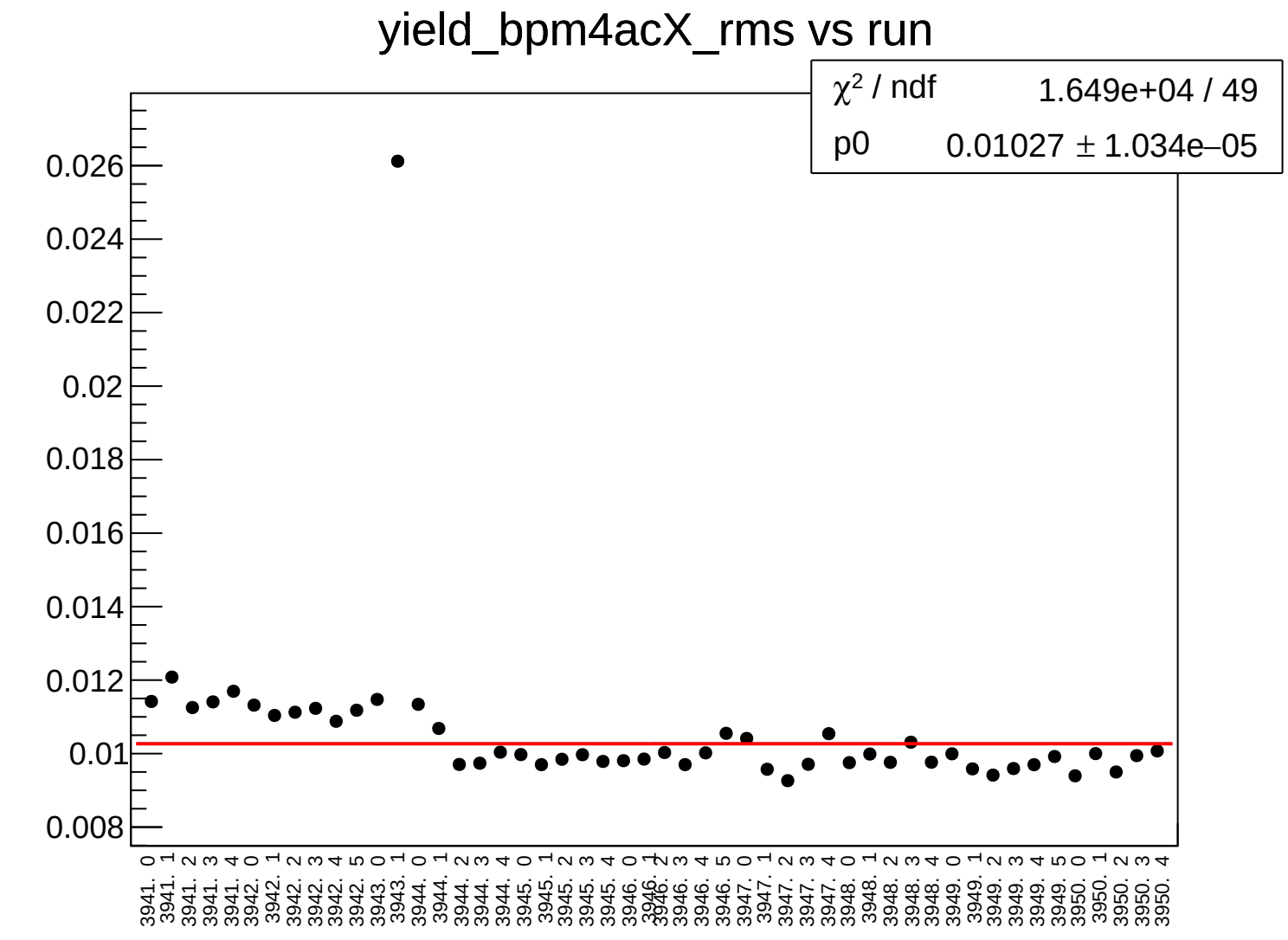

yield_bpm4eY_mean vs run
χ² / ndf 4.153e+04 / 49
p0 1.156 ± 1.311e−05
1.162
1.16
1.158
1.156
1.154
1.152
1.15
pull
Entries 50
Mean 210.3
Std Dev 177.2
60
40
20
0
−20
−40
−60

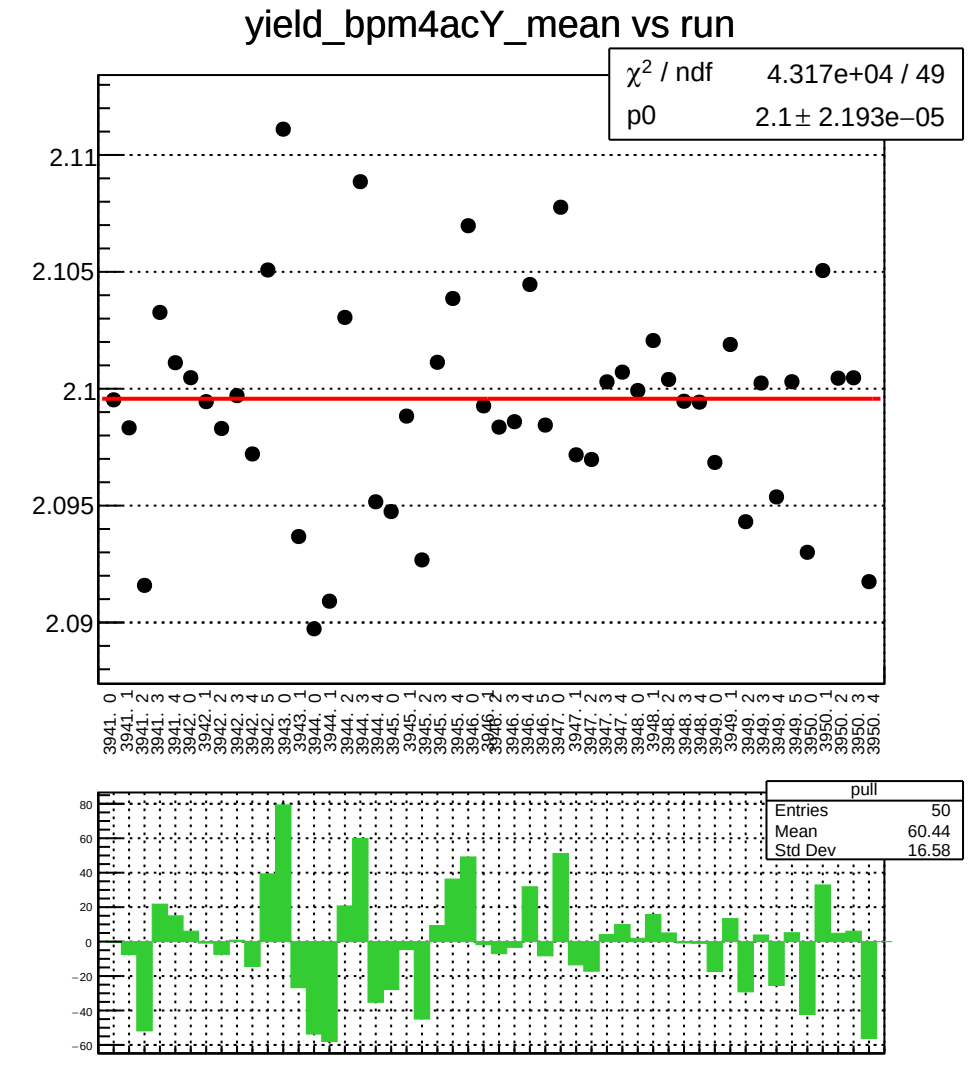

pull1D
Entries 50
Mean 0.8821
Std Dev 4.375
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

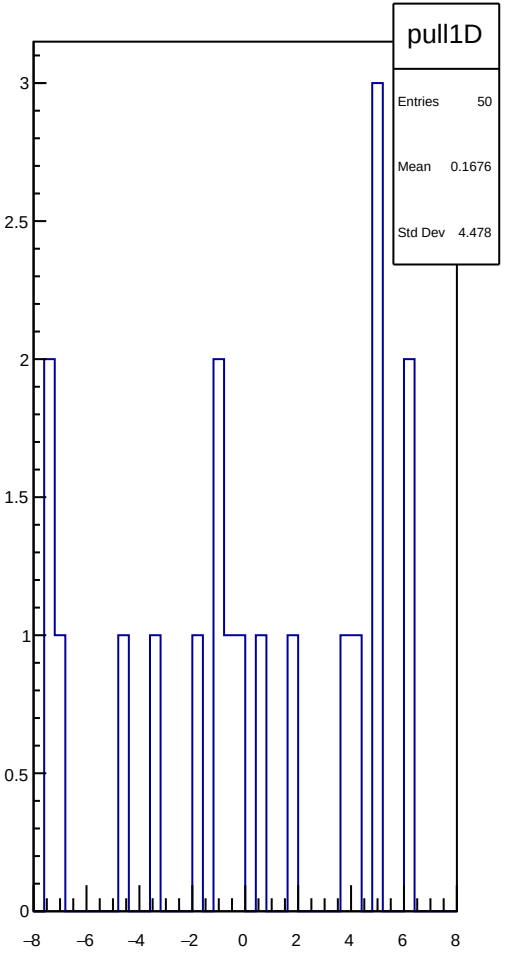

yield_bpm4eY_rms vs run
χ² / ndf 1.354e+04 / 49
p0 0.009225 ± 9.272e−06
0.018
0.016
0.014
0.012
0.01
0.008
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

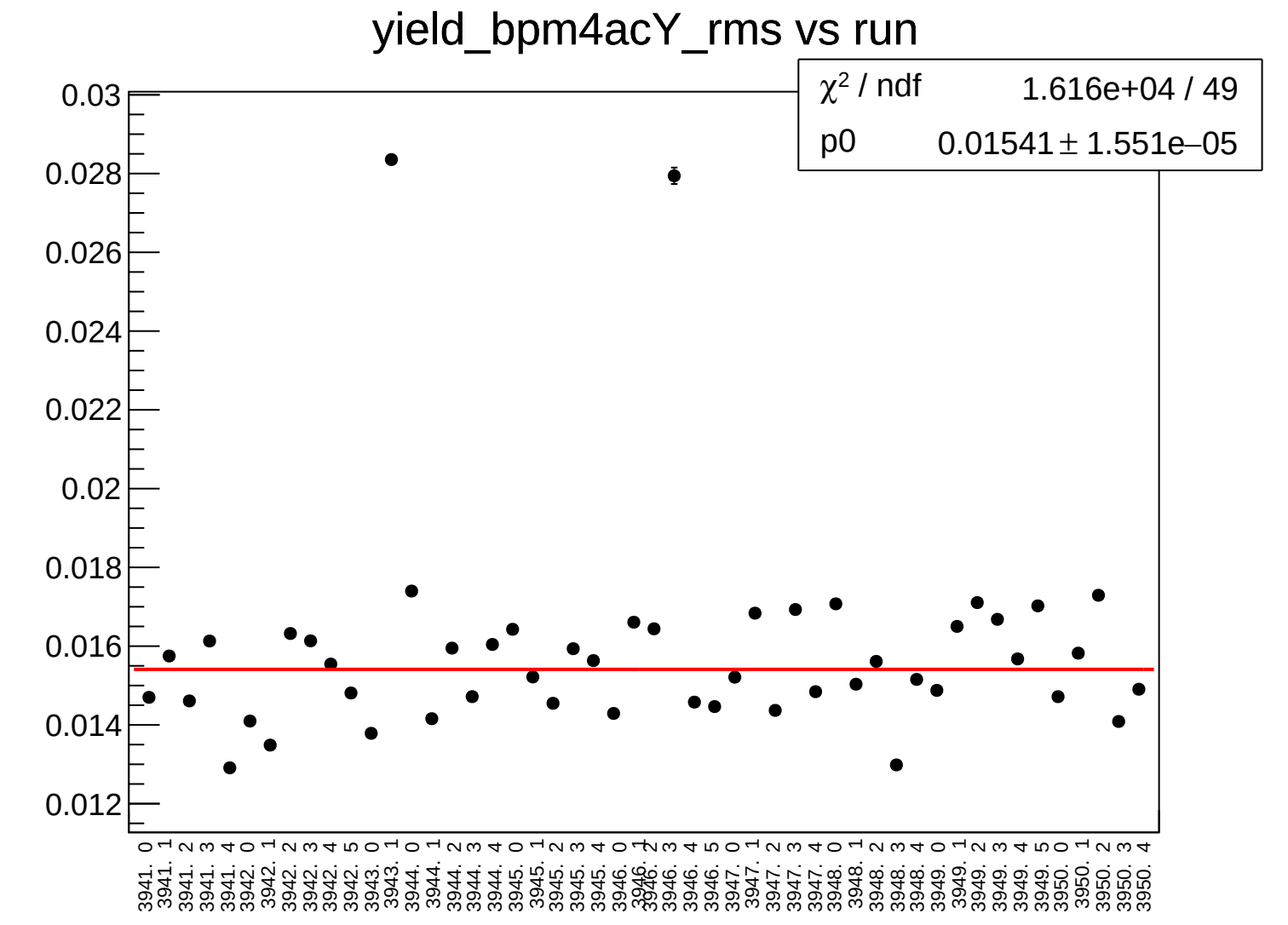

yield_bpm4acX_mean vs run
χ² / ndf 9878 / 49
p0 −0.4192 ± 1.462e−05
−0.416
−0.418
−0.42
−0.422
−0.424
−0.426
−0.428
pull
Entries 50
Mean 2404
Std Dev 2381
30
20
10
0
−10
−20
−30
−40

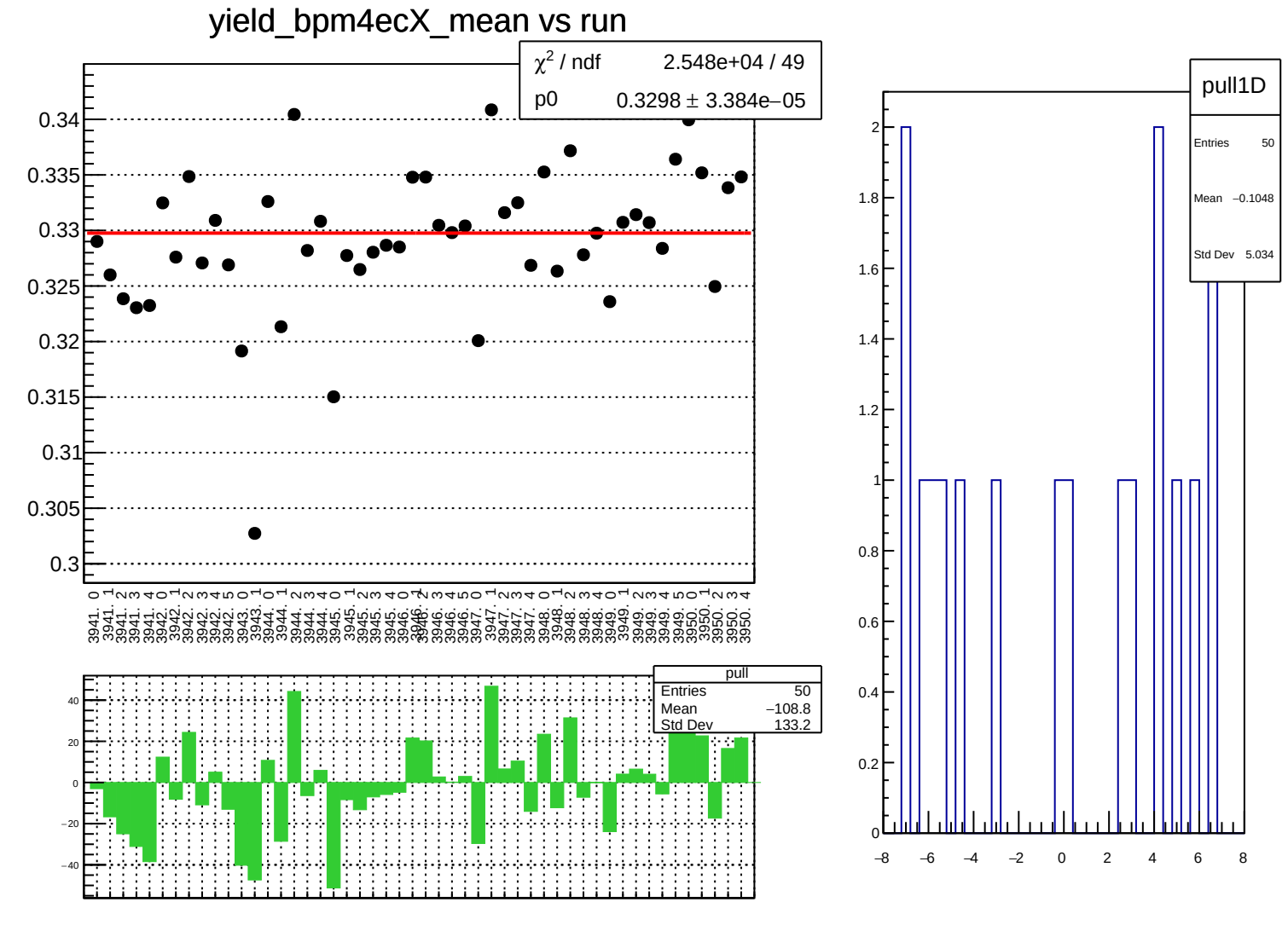

pull1D
Entries 50
Mean 0.3182
Std Dev 4.155
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

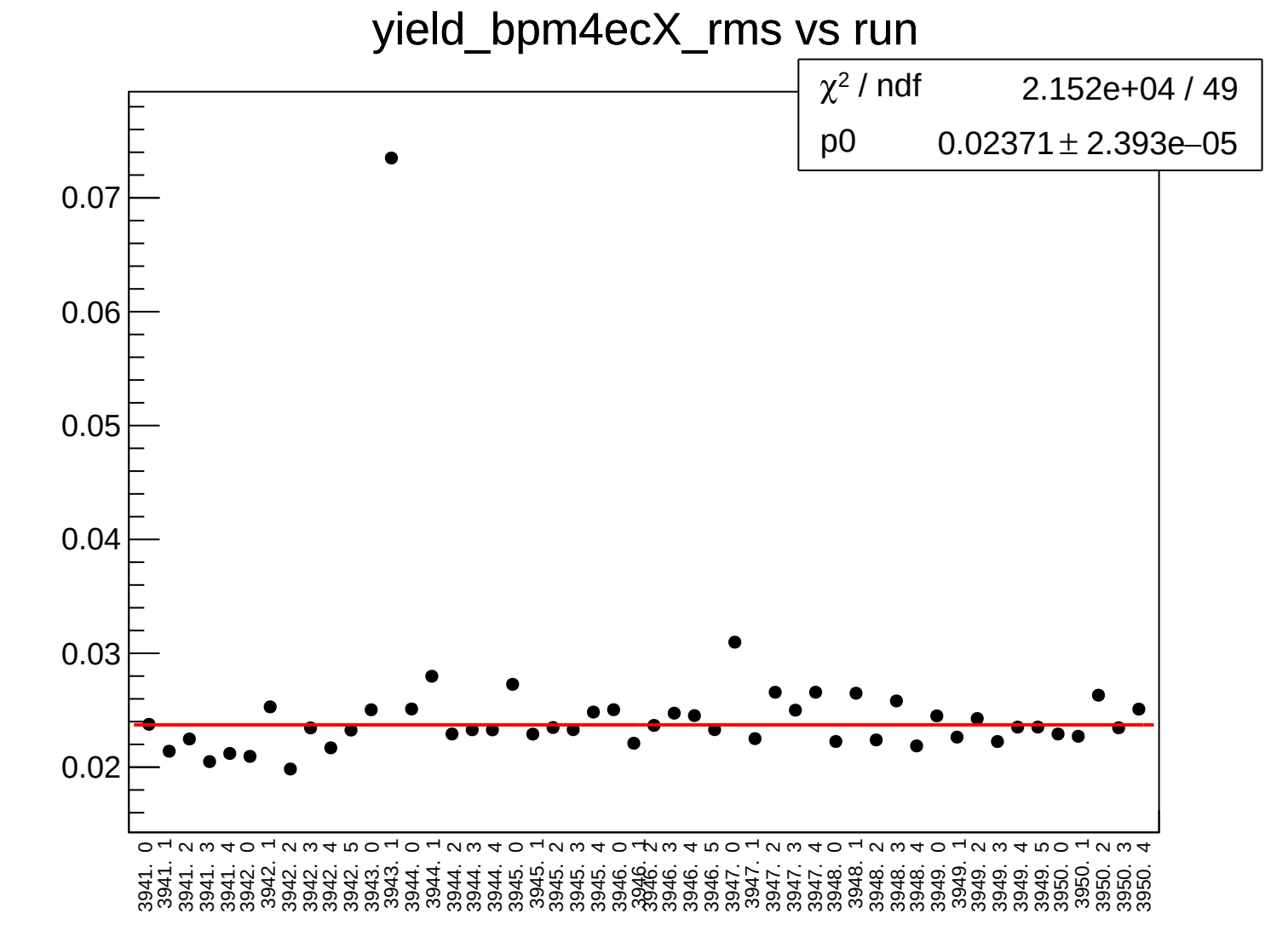

yield_bpm4acX_rms vs run
χ² / ndf 1.649e+04 / 49
p0 0.01027 ± 1.034e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

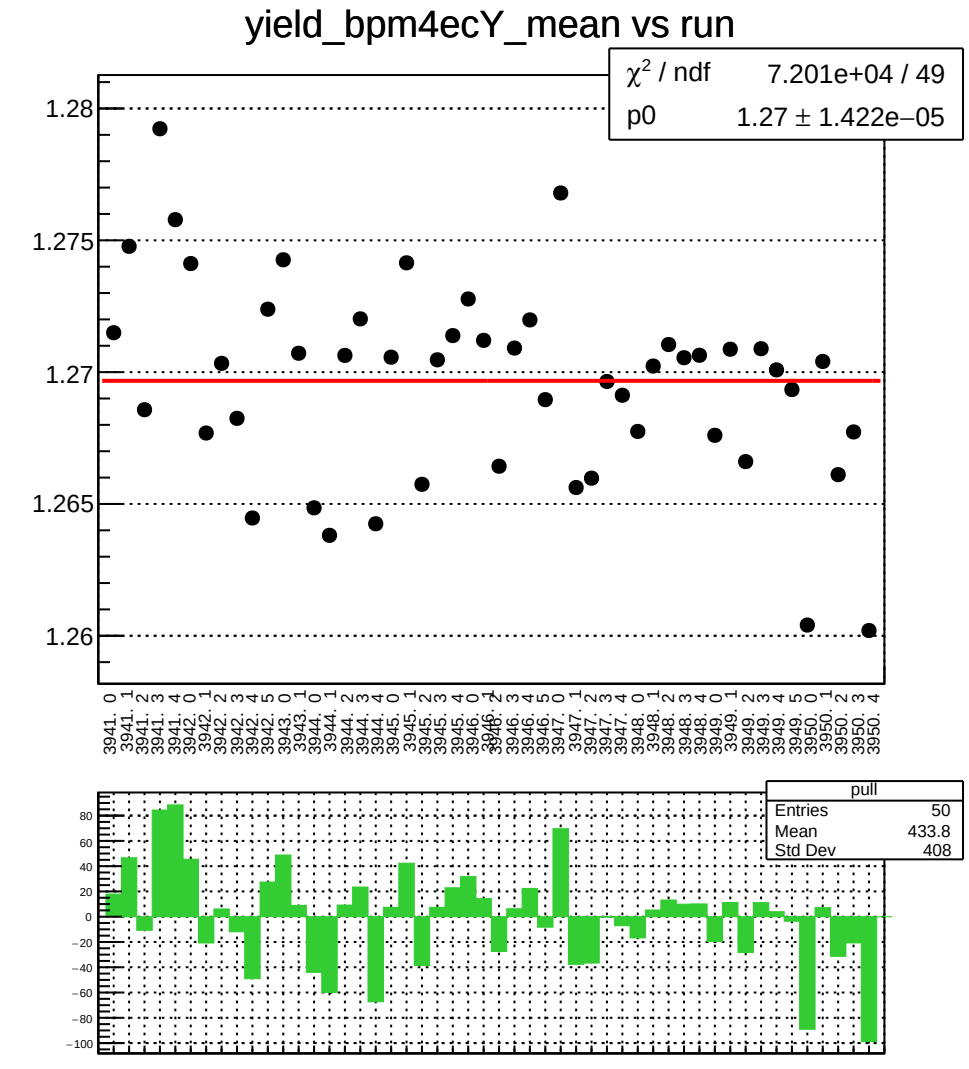

yield_bpm4acY_mean vs run
χ² / ndf 4.317e+04 / 49
p0 2.1 ± 2.193e−05
2.11
2.105
2.1
2.095
2.09
pull
Entries 50
Mean 60.44
Std Dev 16.58
80
60
40
20
0
−20
−40
−60

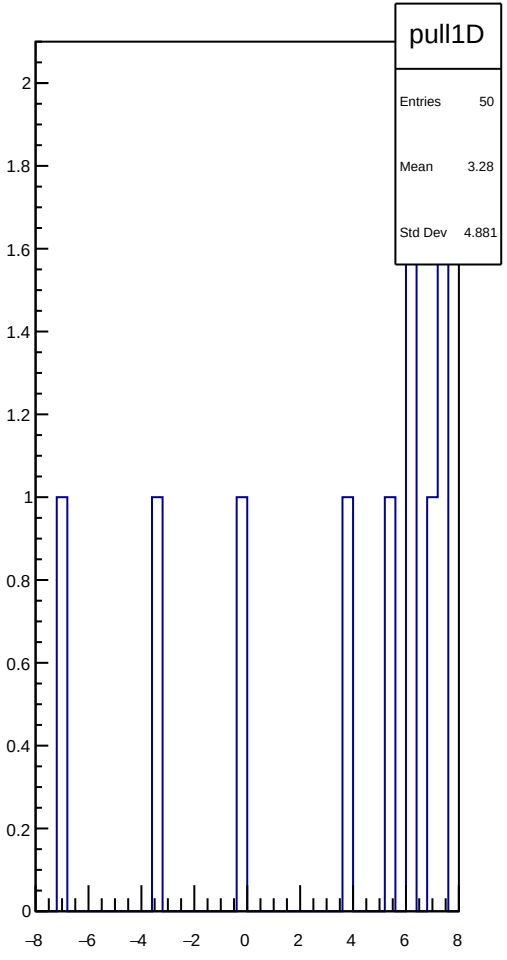

pull1D
Entries 50
Mean 0.1676
Std Dev 4.478
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

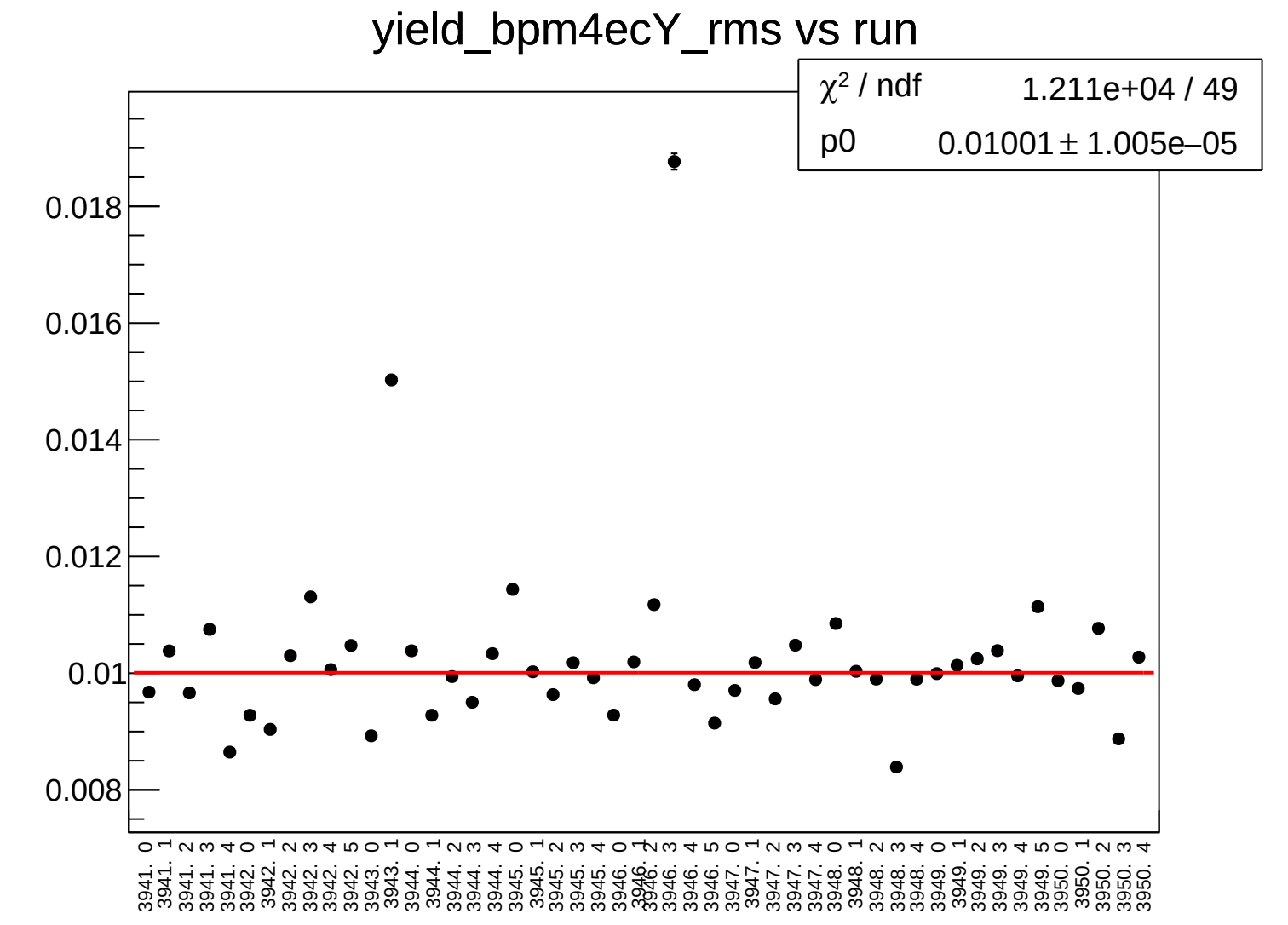

yield_bpm4acY_rms vs run
χ² / ndf 1.616e+04 / 49
p0 0.01541 ± 1.551e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

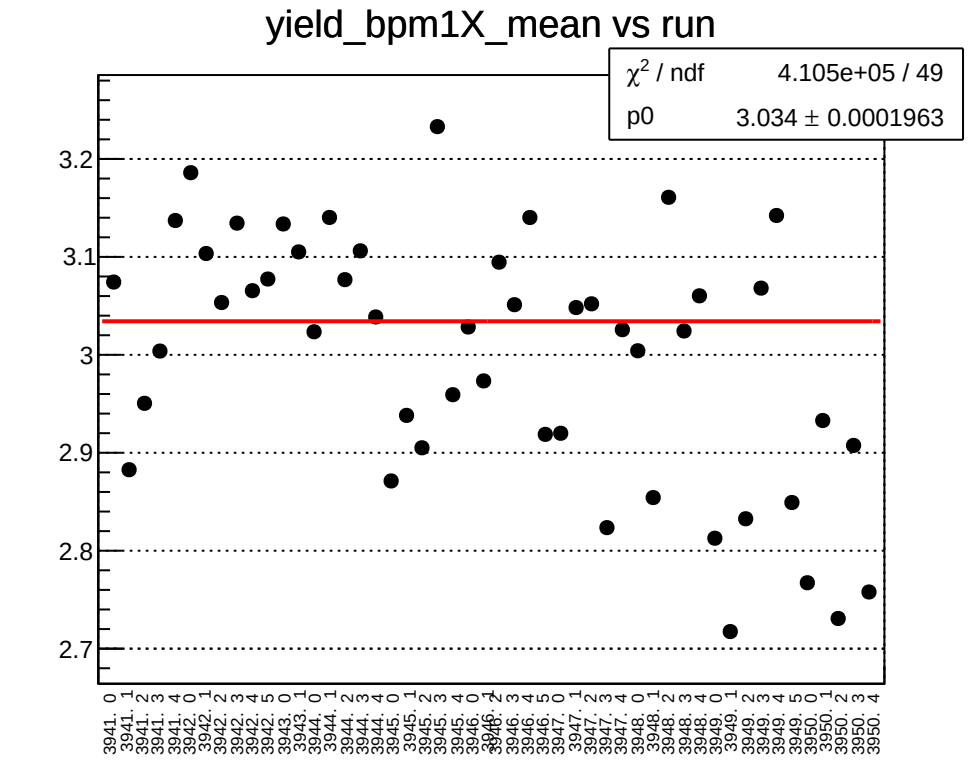

yield_bpm4ecX_mean vs run
χ² / ndf 2.548e+04 / 49
p0 0.3298 ± 3.384e−05
pull
Entries 50
Mean −108.8
Std Dev 133.2
pull1D
Entries 50
Mean −0.1048
Std Dev 5.034

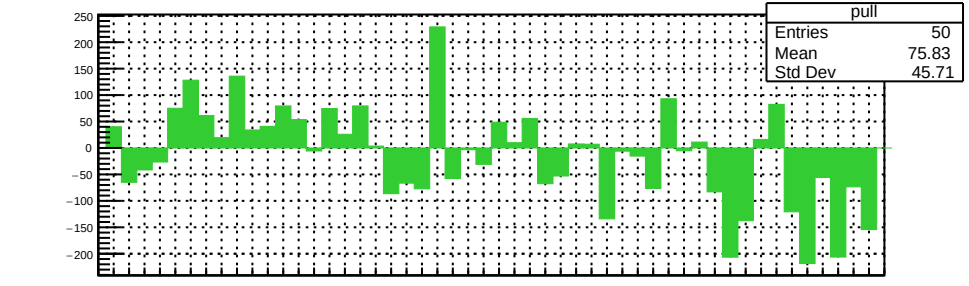

yield_bpm4ecX_rms vs run
χ² / ndf 2.152e+04 / 49
p0 0.02371 ± 2.393e–05
0.07
0.06
0.05
0.04
0.03
0.02
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

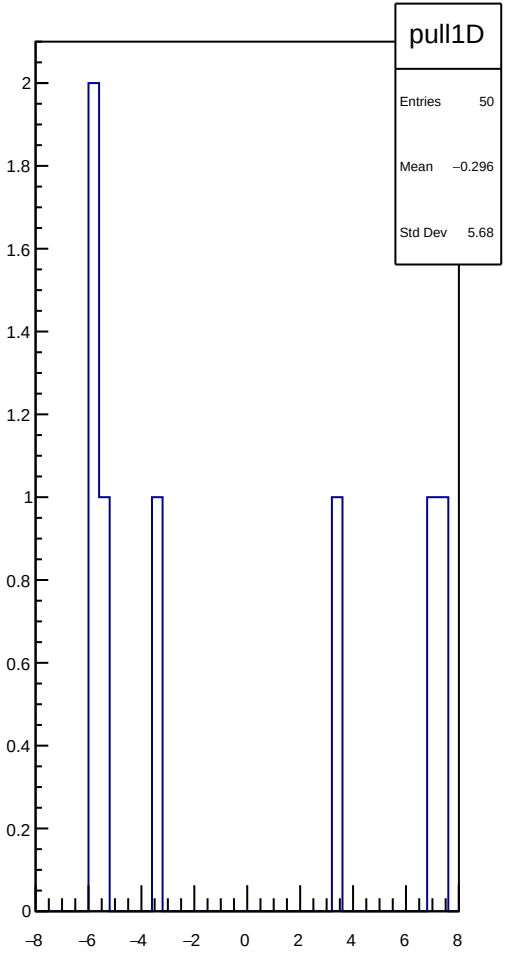

yield_bpm4ecY_mean vs run
χ² / ndf 7.201e+04 / 49
p0 1.27 ± 1.422e−05
1.28
1.275
1.27
1.265
1.26
pull
Entries 50
Mean 433.8
Std Dev 408
80
60
40
20
0
−20
−40
−60
−80
−100

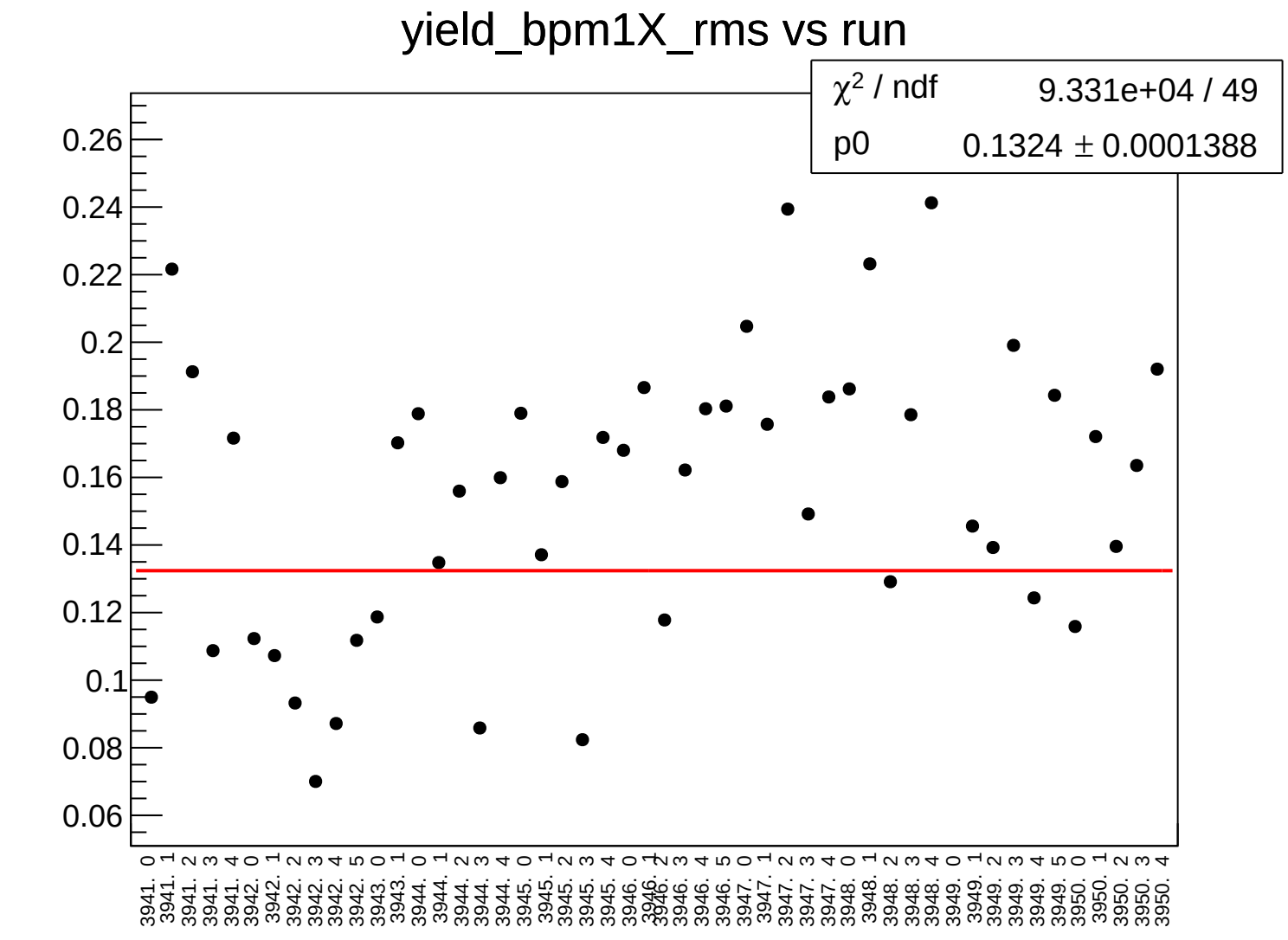

pull1D
Entries 50
Mean 3.28
Std Dev 4.881
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

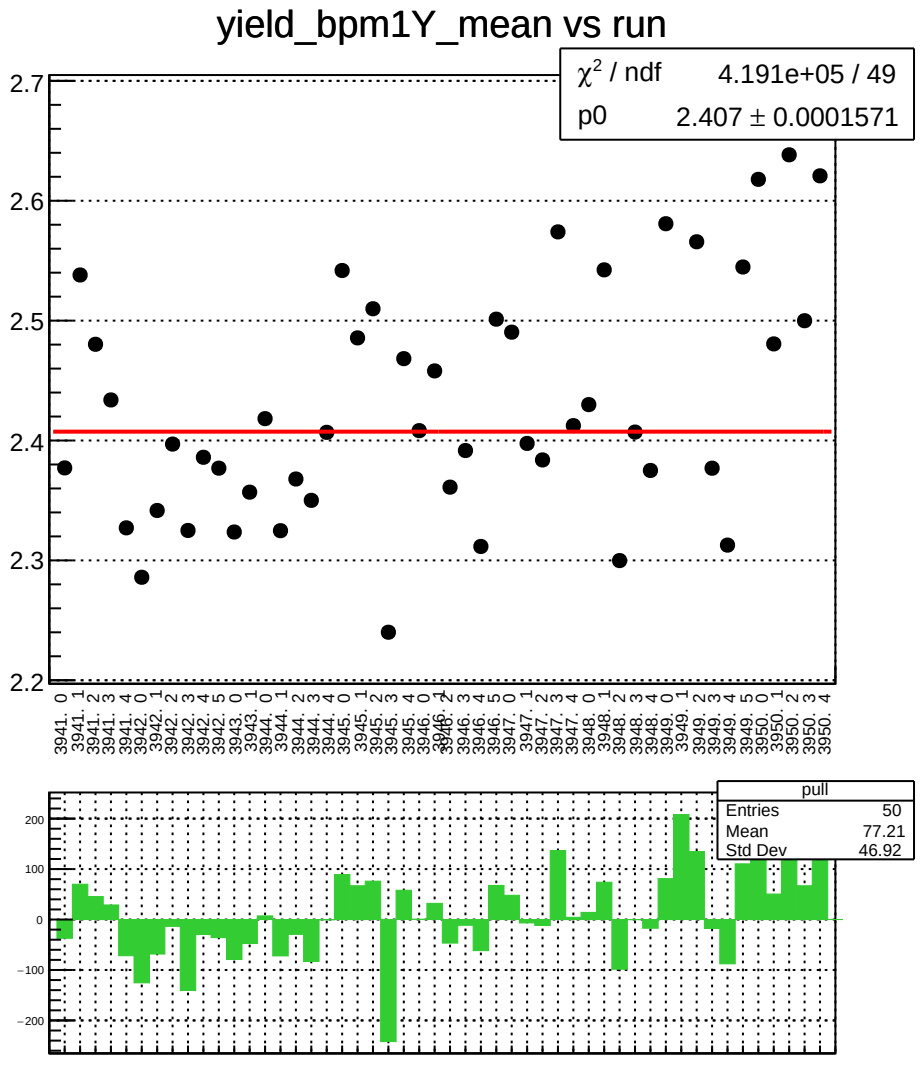

yield_bpm4ecY_rms vs run
χ² / ndf 1.211e+04 / 49
p0 0.01001 ± 1.005e–05
0.018
0.016
0.014
0.012
0.01
0.008
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

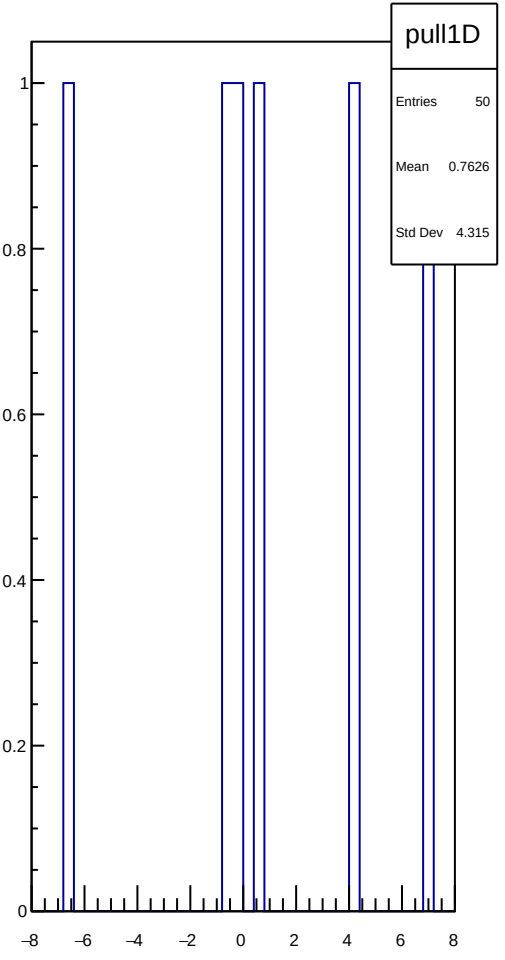

yield_bpm1X_mean vs run
χ² / ndf 4.105e+05 / 49
p0 3.034 ± 0.0001963
3.2
3.1
3
2.9
2.8
2.7

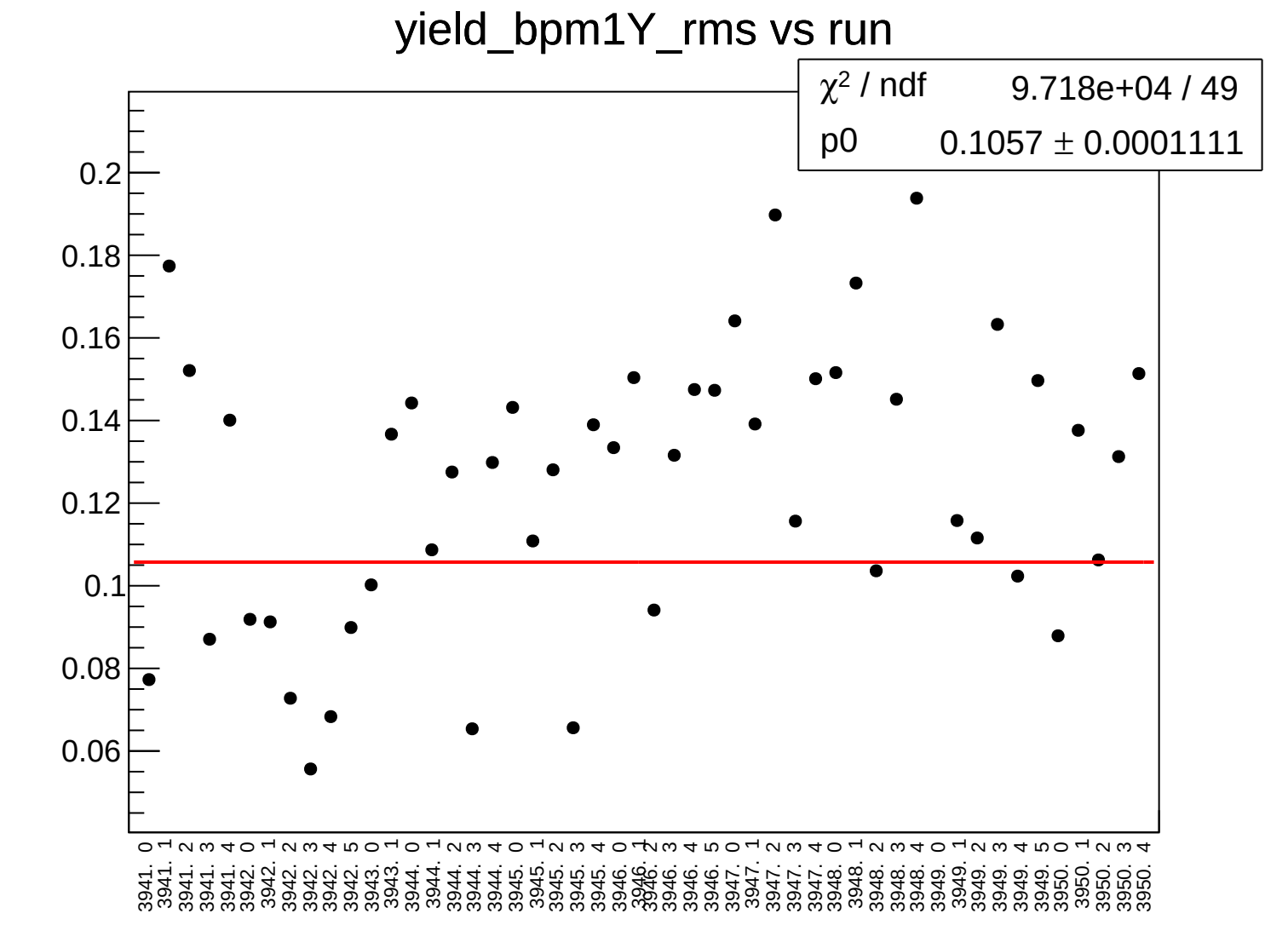

pull
Entries 50
Mean 75.83
Std Dev 45.71
250
200
150
100
50
0
−50
−100
−150
−200

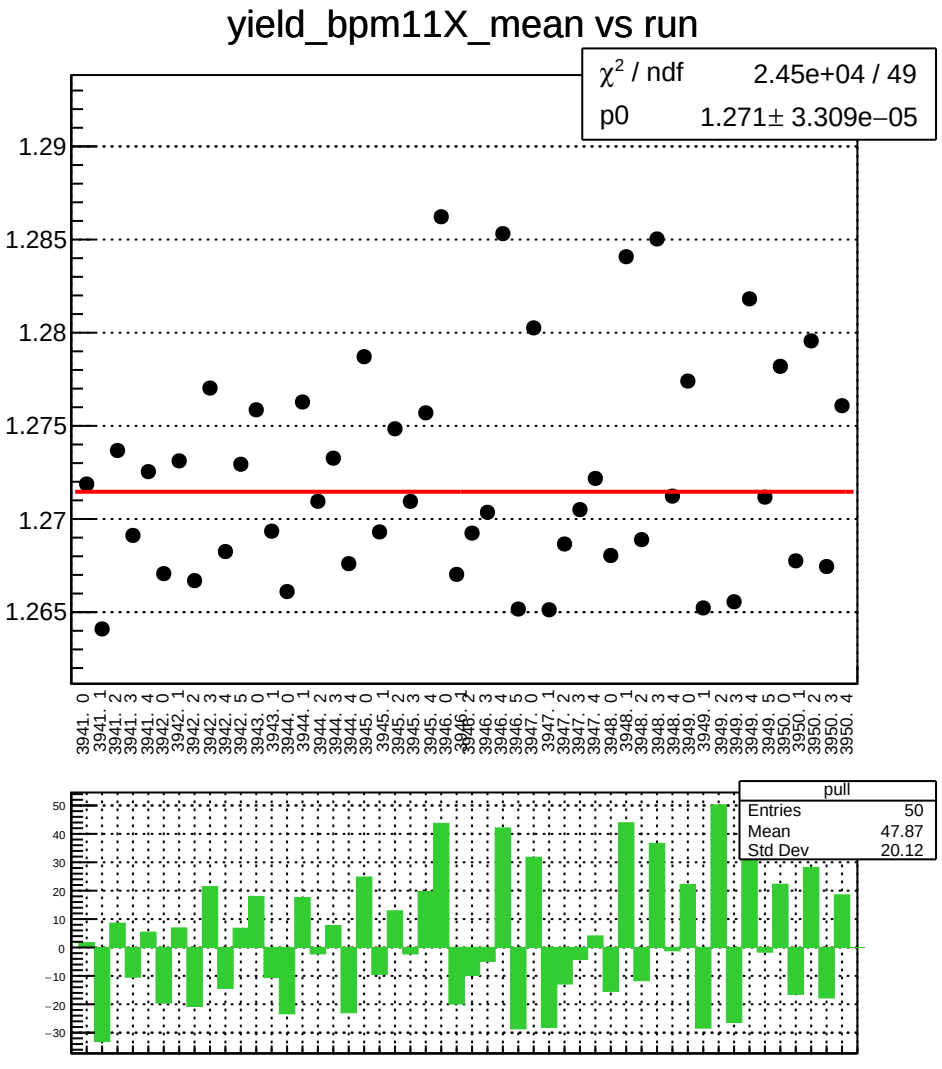

pull1D
Entries 50
Mean −0.296
Std Dev 5.68
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

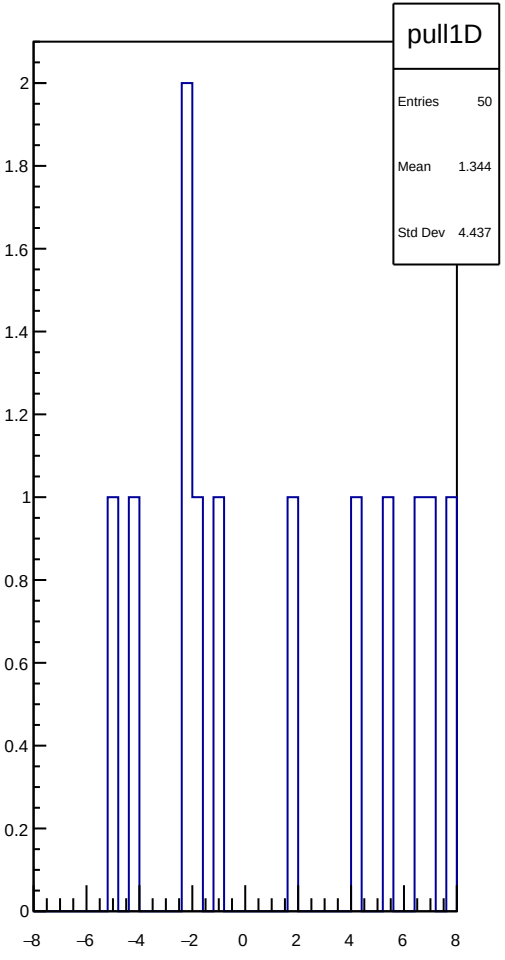

yield_bpm1X_rms vs run
χ² / ndf 9.331e+04 / 49
p0 0.1324 ± 0.0001388
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

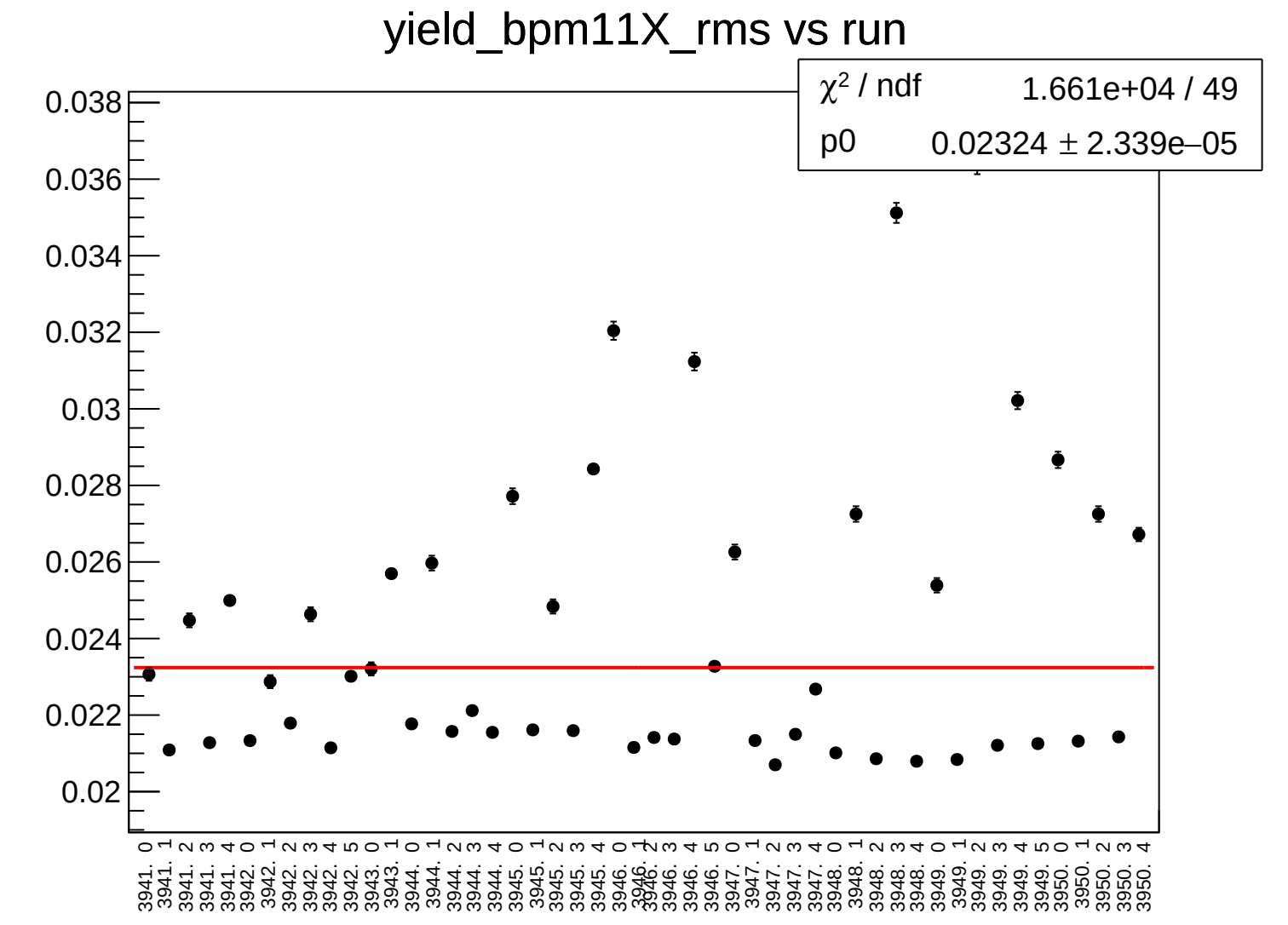

yield_bpm1Y_mean vs run
χ² / ndf 4.191e+05 / 49
p0 2.407 ± 0.0001571
pull
Entries 50
Mean 77.21
Std Dev 46.92

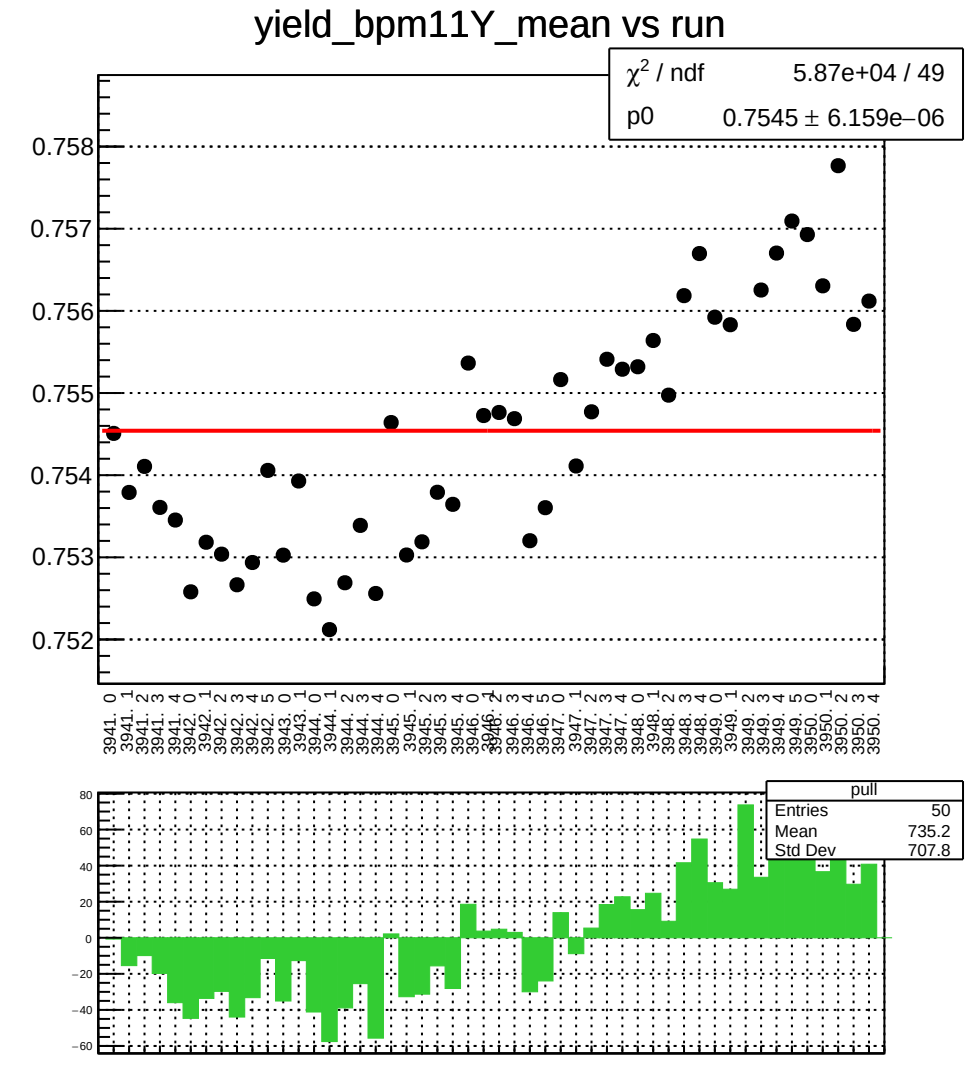

pull1D
Entries 50
Mean 0.7626
Std Dev 4.315

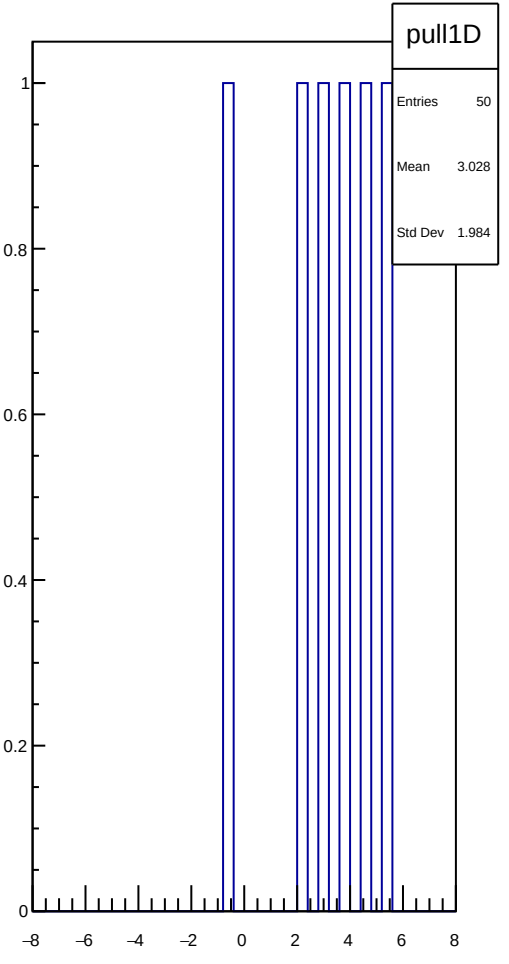

yield_bpm1Y_rms vs run
χ² / ndf 9.718e+04 / 49
p0 0.1057 ± 0.0001111
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

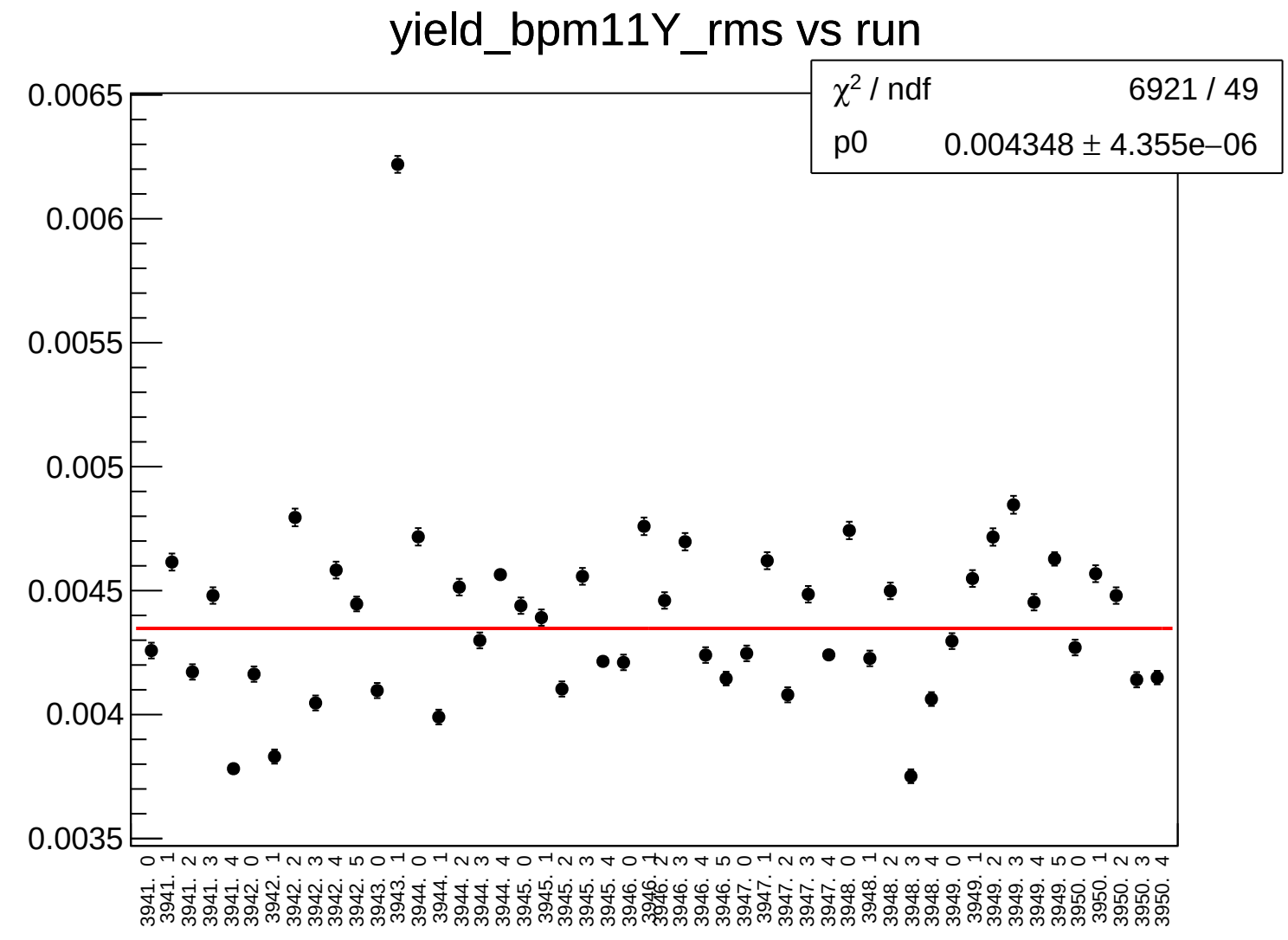

yield_bpm11X_mean vs run
χ² / ndf 2.45e+04 / 49
p0 1.271± 3.309e−05
1.29
1.285
1.28
1.275
1.27
1.265
pull
Entries 50
Mean 47.87
Std Dev 20.12
50
40
30
20
10
0
−10
−20
−30

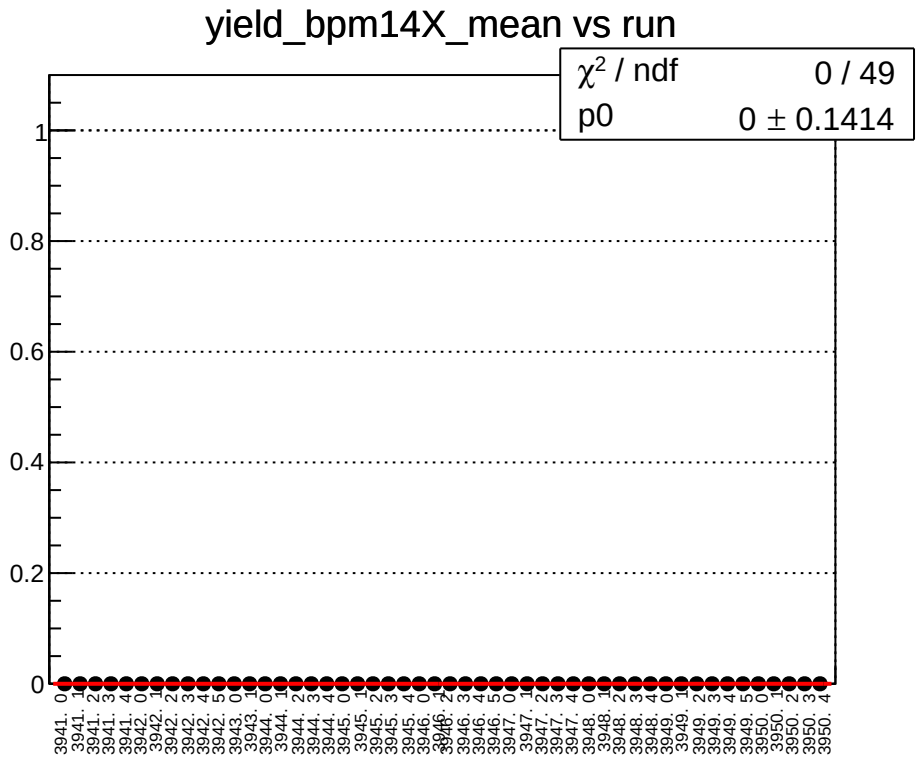

pull1D
Entries 50
Mean 1.344
Std Dev 4.437
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

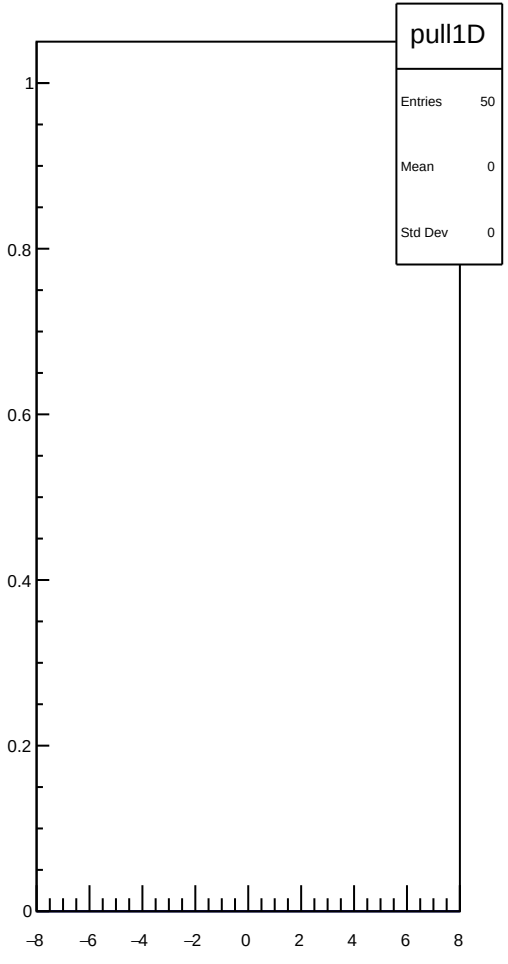

yield_bpm11X_rms vs run
χ² / ndf 1.661e+04 / 49
p0 0.02324 ± 2.339e–05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

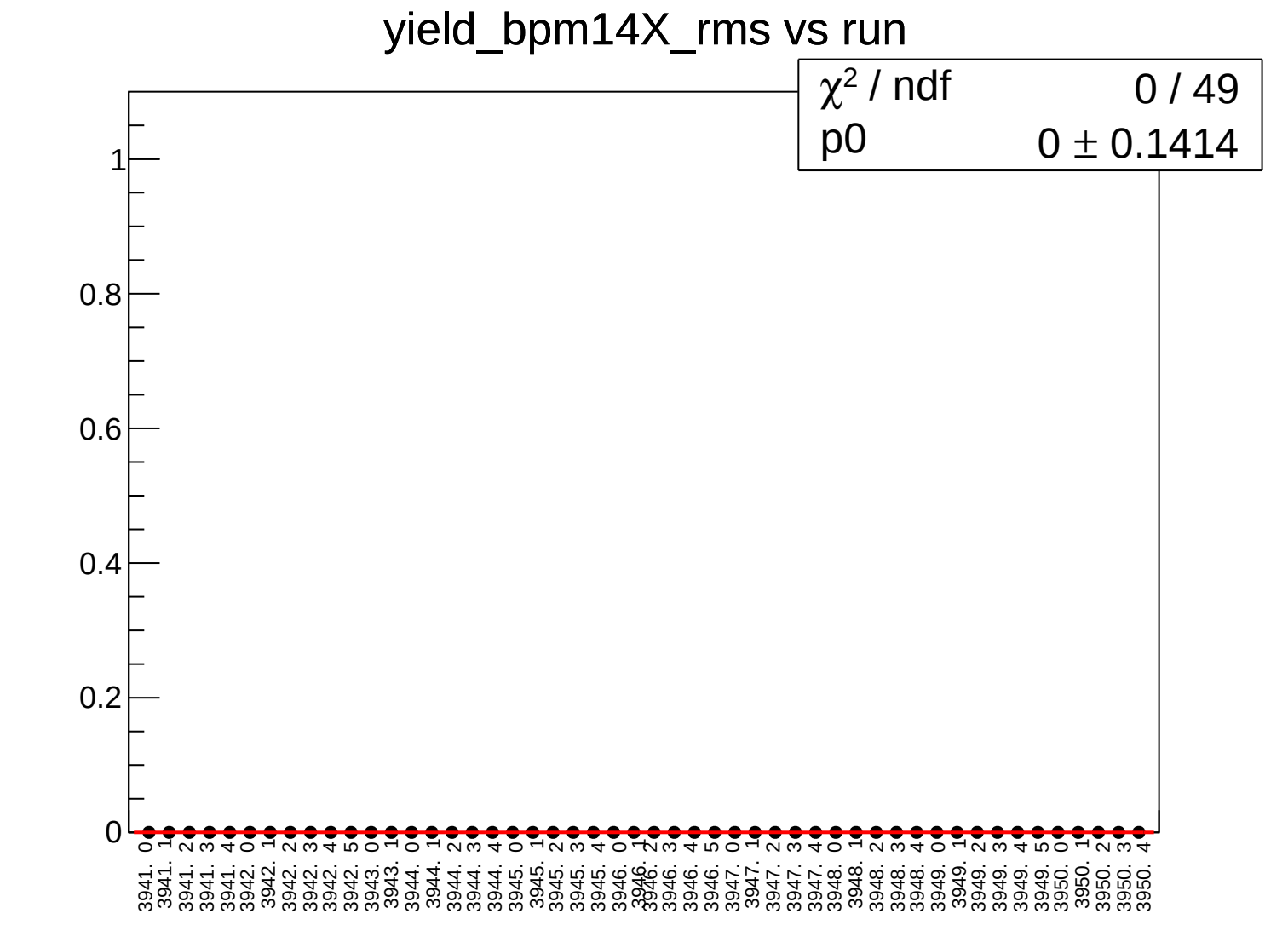

yield_bpm11Y_mean vs run
χ² / ndf 5.87e+04 / 49
p0 0.7545 ± 6.159e−06
0.758
0.757
0.756
0.755
0.754
0.753
0.752
pull
Entries 50
Mean 735.2
Std Dev 707.8
80
60
40
20
0
−20
−40
−60

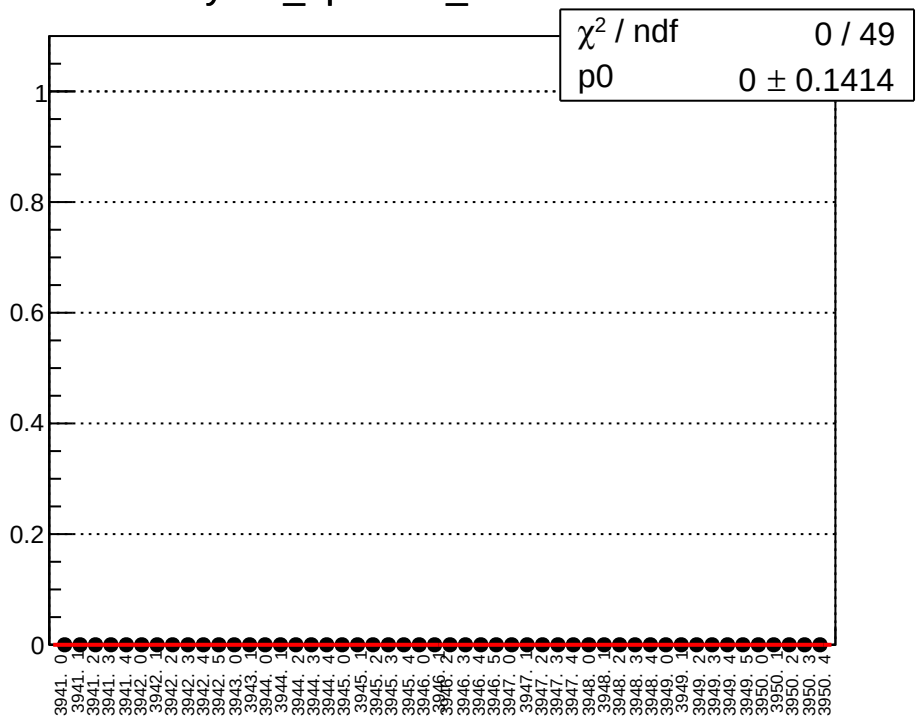

pull1D
Entries 50
Mean 3.028
Std Dev 1.984
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

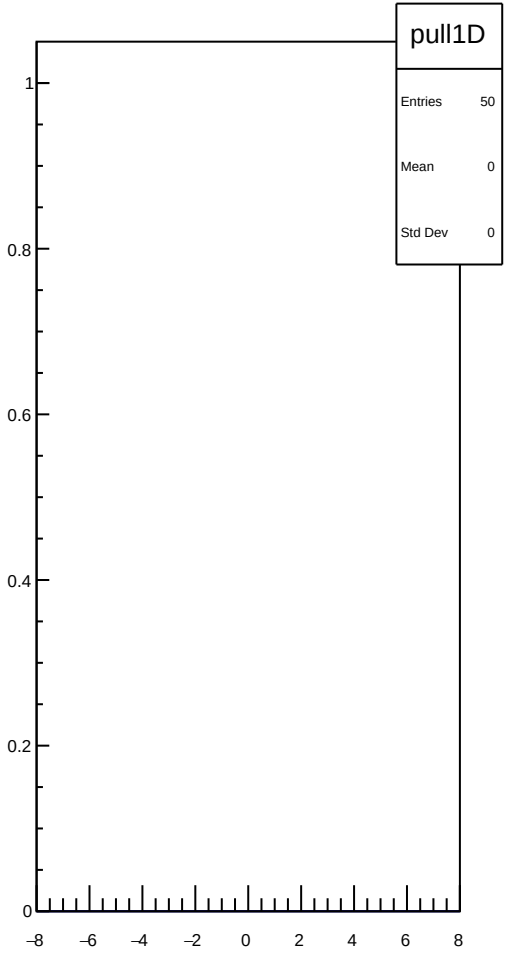

yield_bpm11Y_rms vs run
χ² / ndf 6921 / 49
p0 0.004348 ± 4.355e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

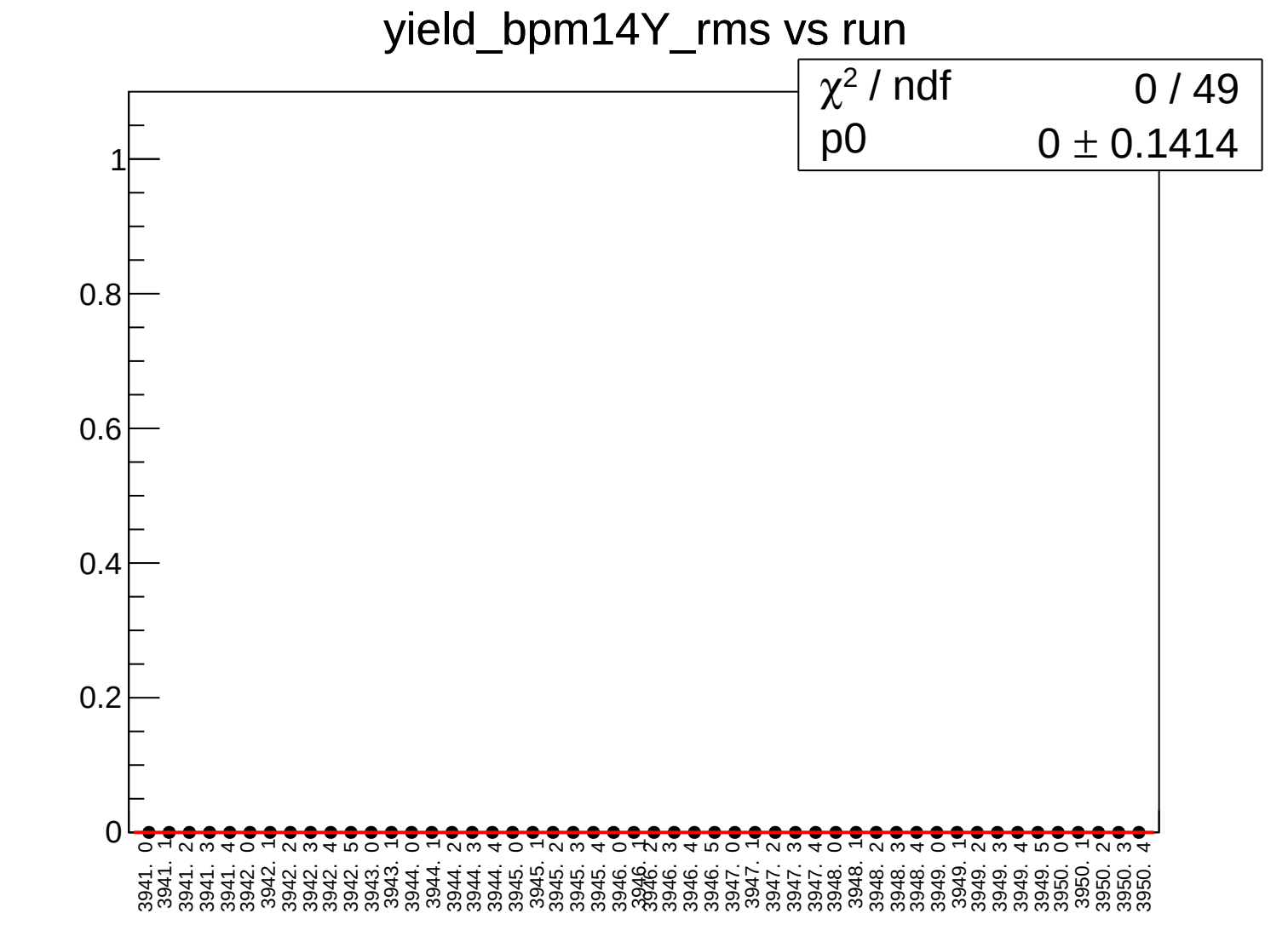

yield_bpm14X_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

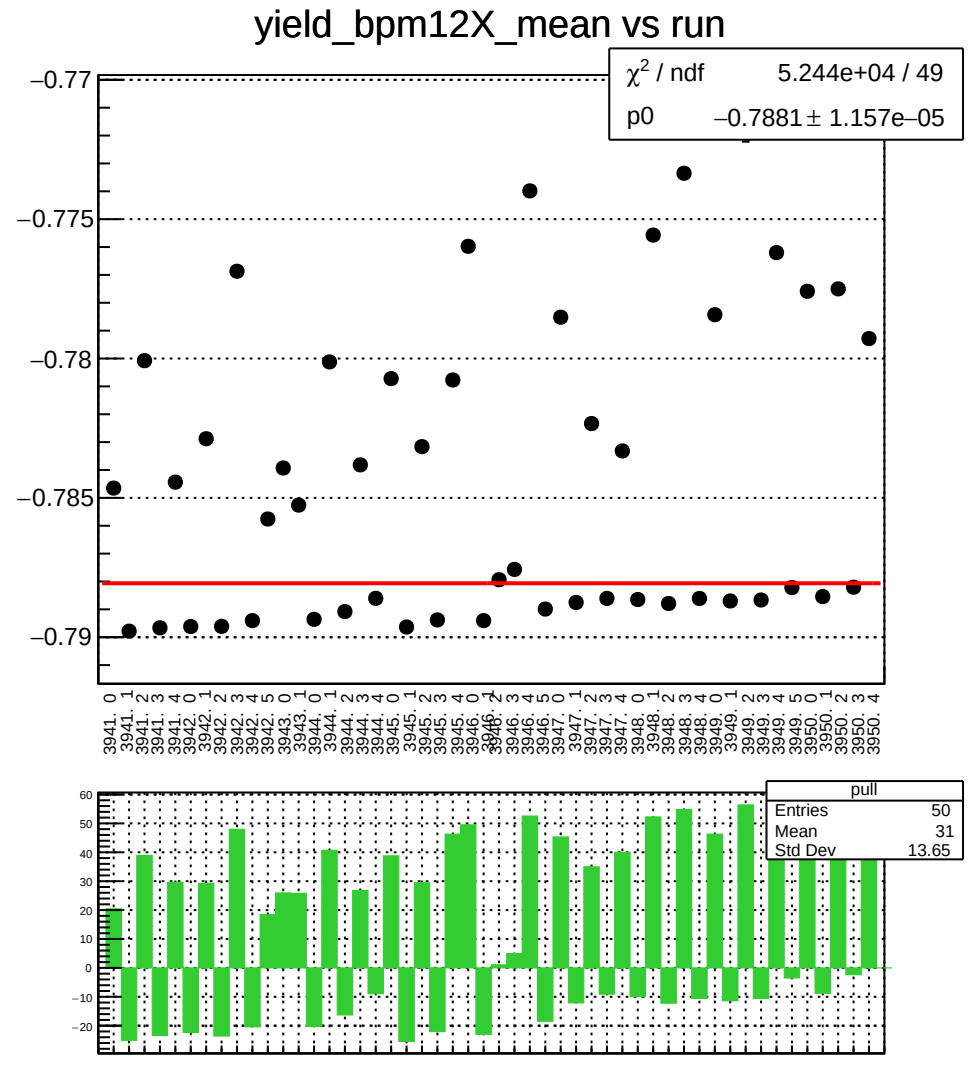

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

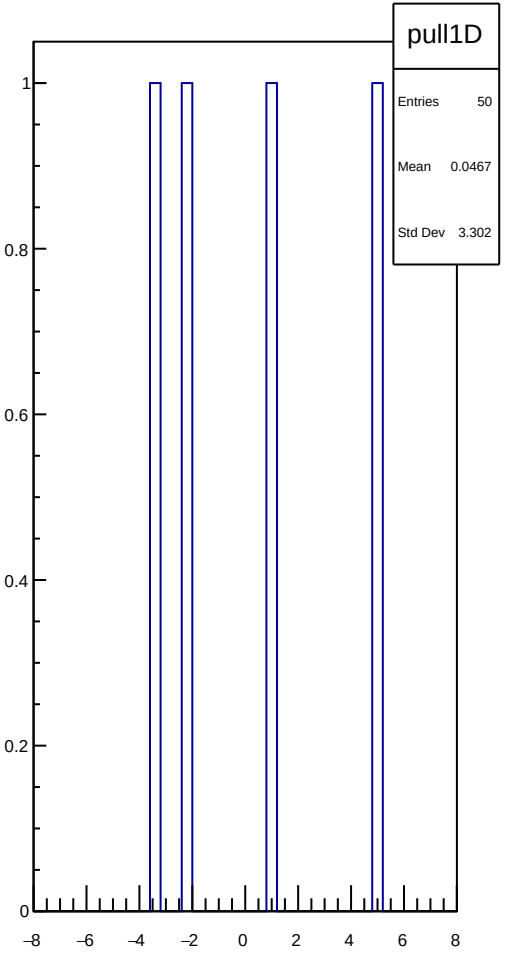

yield_bpm14X_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

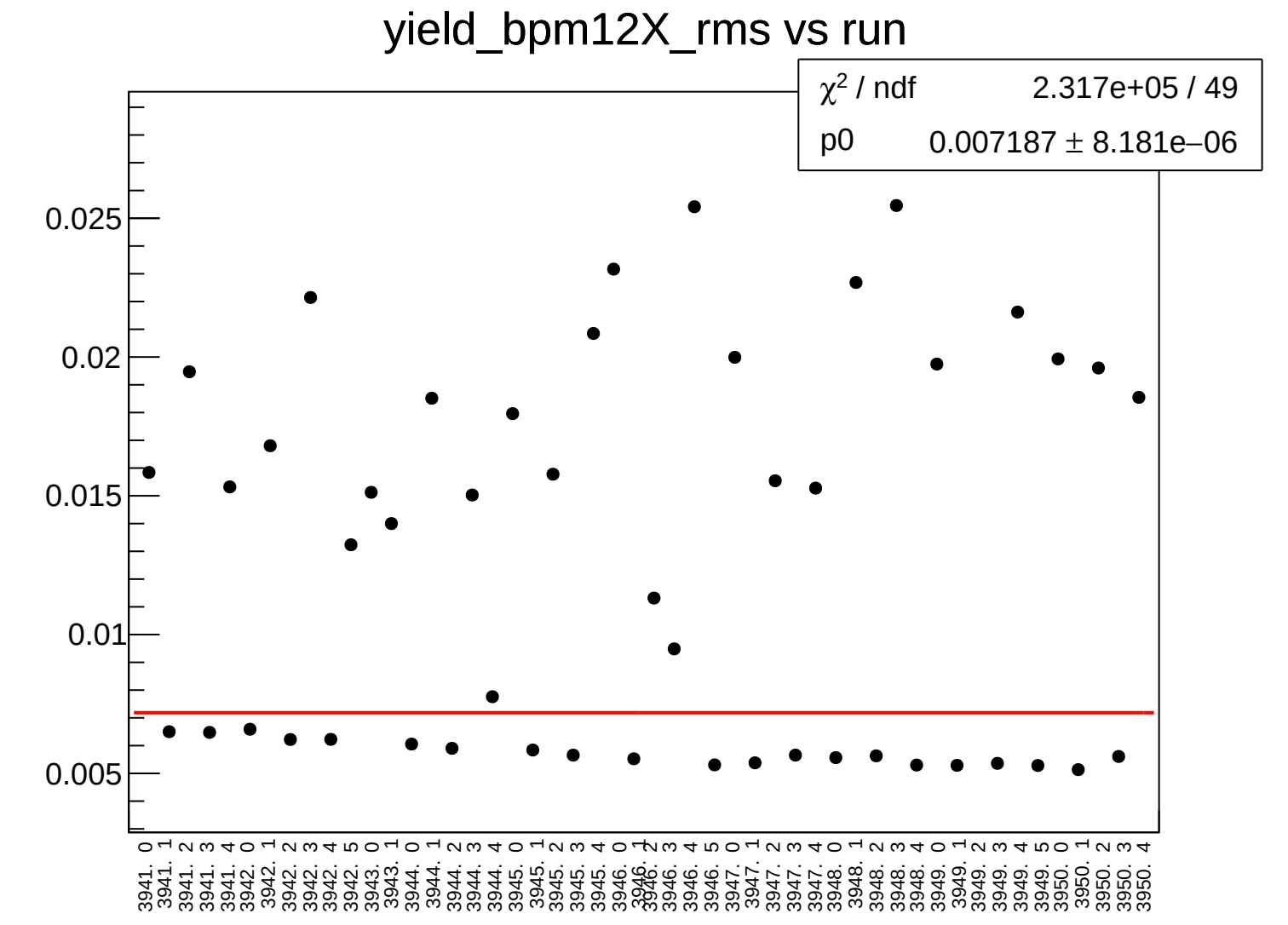

yield_bpm14Y_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

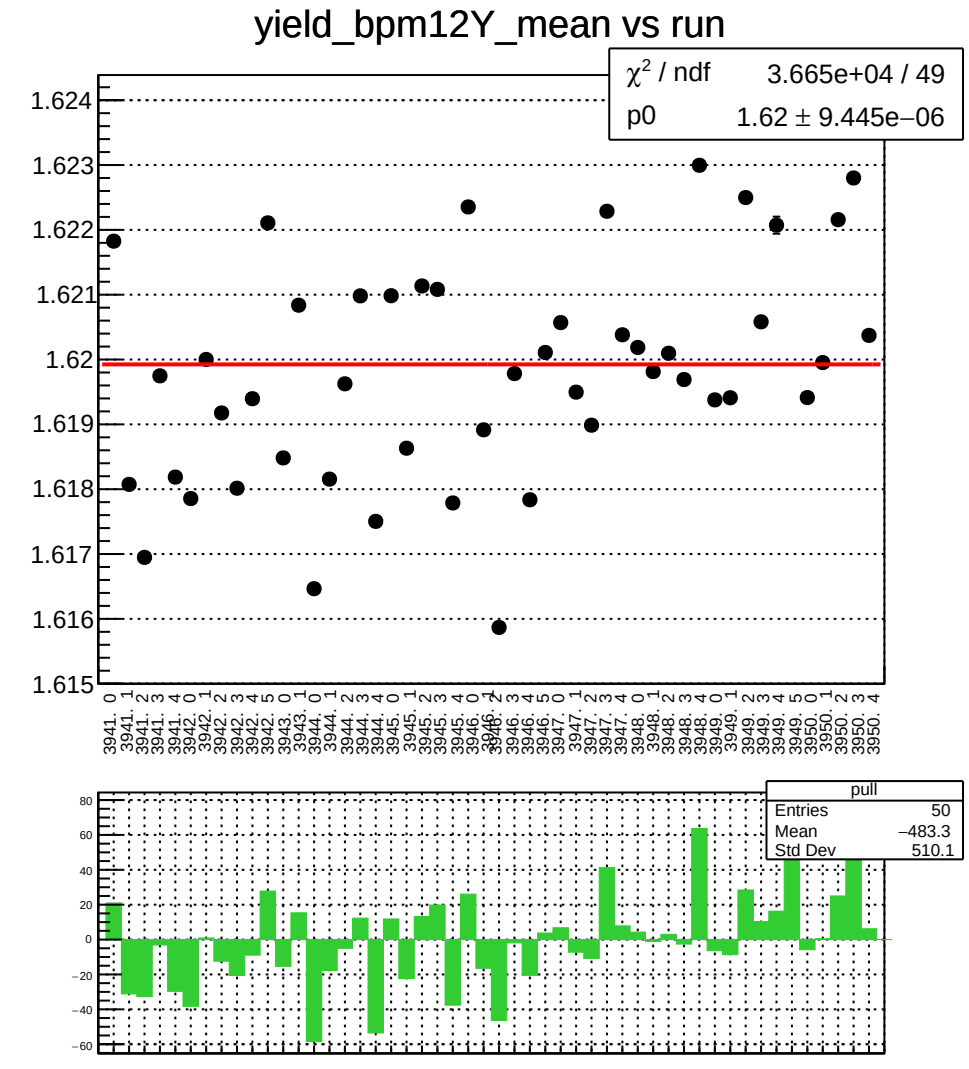

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

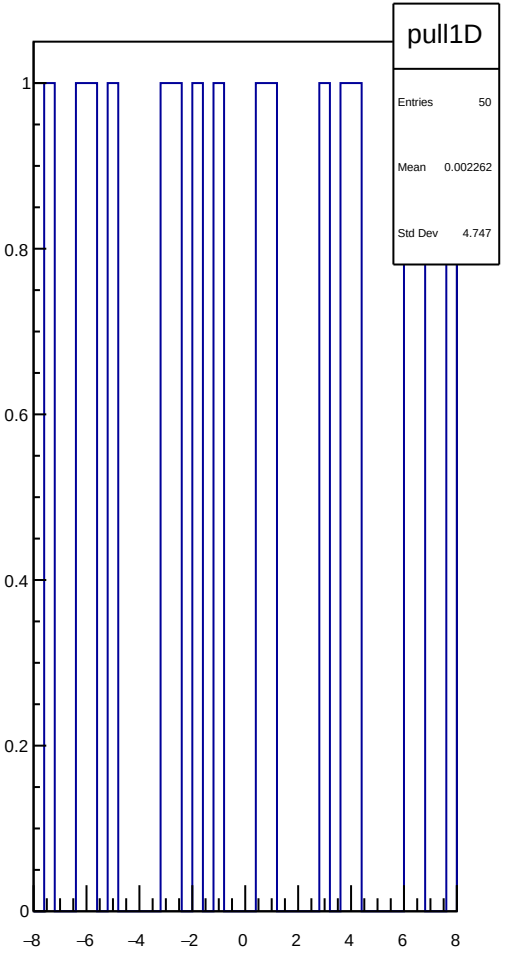

yield_bpm14Y_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

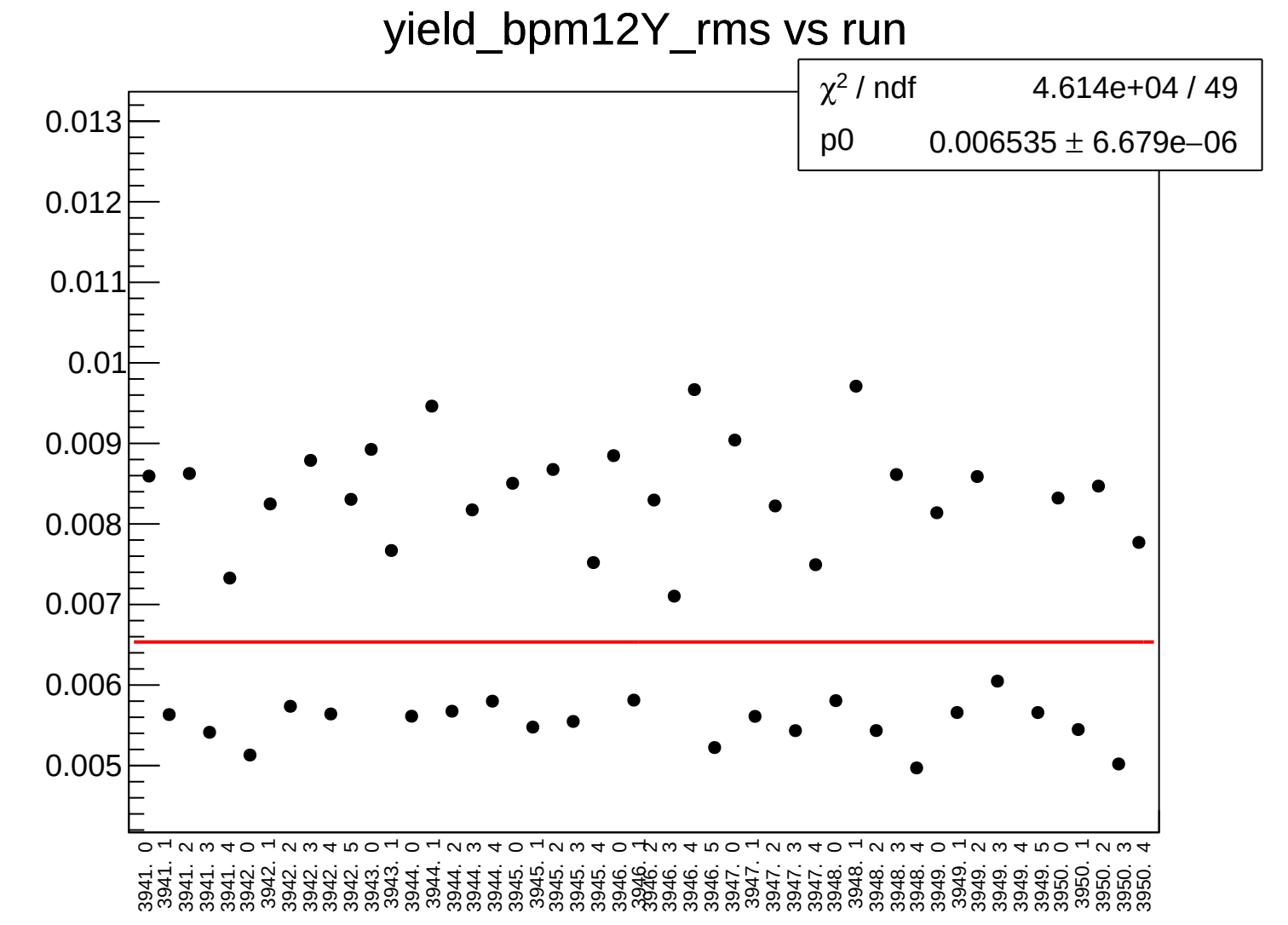

yield_bpm12X_mean vs run
χ² / ndf 5.244e+04 / 49
p0 −0.7881 ± 1.157e−05
−0.77
−0.775
−0.78
−0.785
−0.79
pull
Entries 50
Mean 31
Std Dev 13.65
60
50
40
30
20
10
0
−10
−20

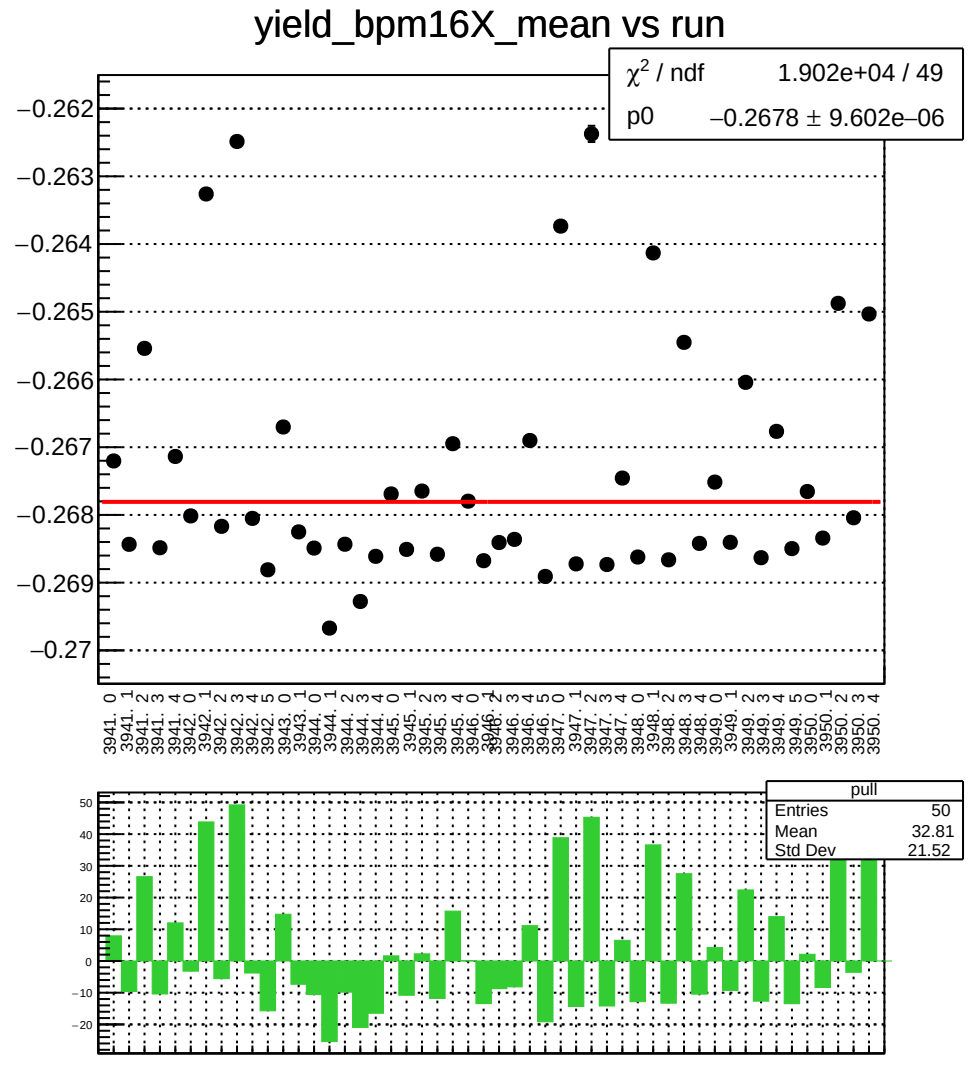

pull1D
Entries 50
Mean 0.0467
Std Dev 3.302
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

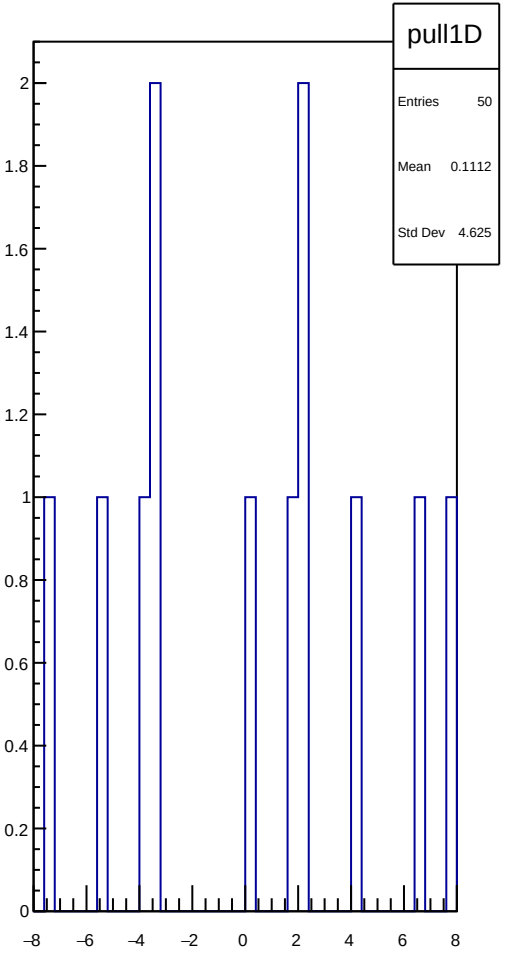

yield_bpm12X_rms vs run
χ² / ndf 2.317e+05 / 49
p0 0.007187 ± 8.181e−06
0.025
0.02
0.015
0.01
0.005
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

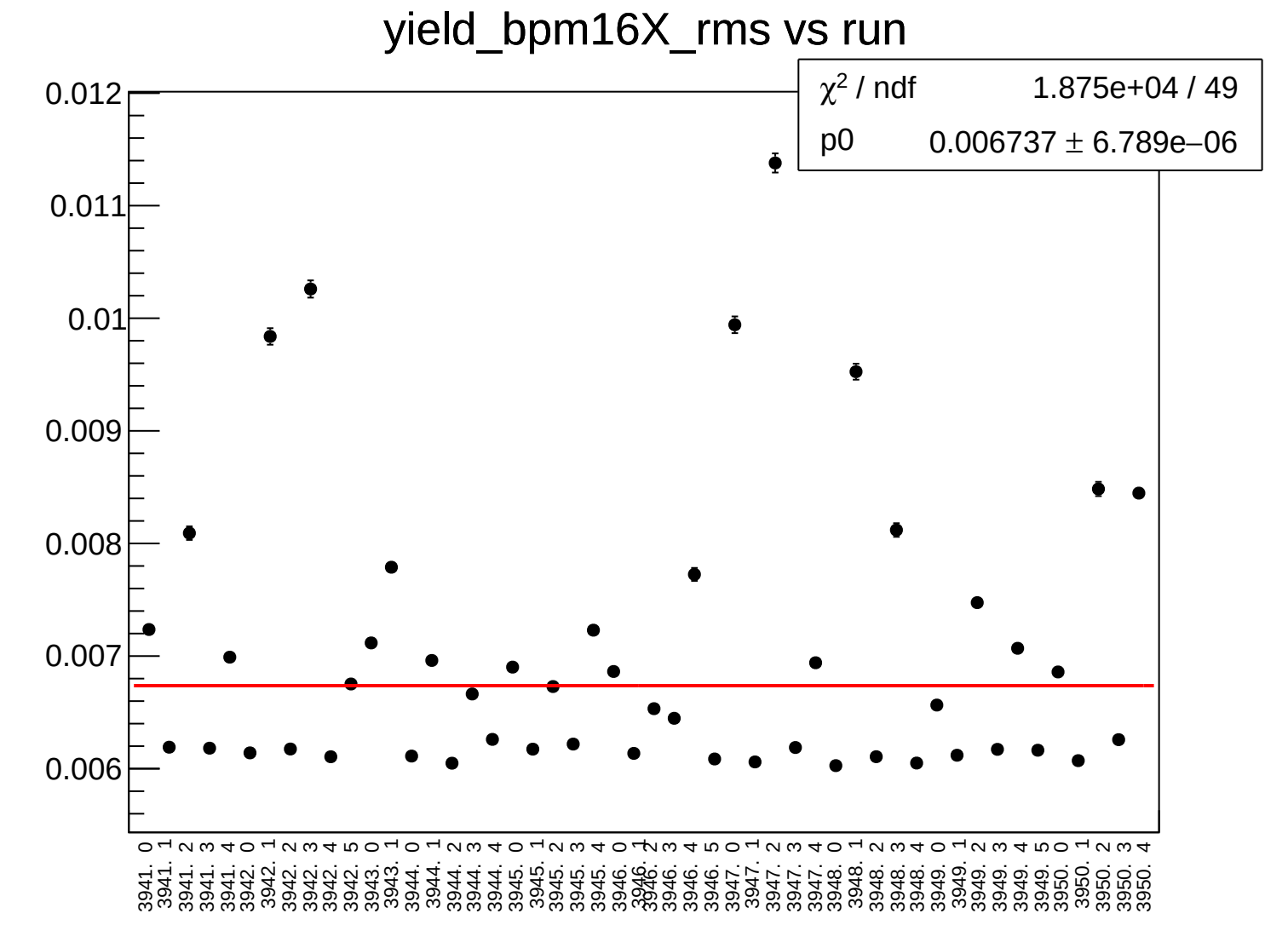

yield_bpm12Y_mean vs run
χ² / ndf 3.665e+04 / 49
p0 1.62 ± 9.445e−06
1.624
1.623
1.622
1.621
1.62
1.619
1.618
1.617
1.616
1.615
pull
Entries 50
Mean −483.3
Std Dev 510.1
80
60
40
20
0
−20
−40
−60

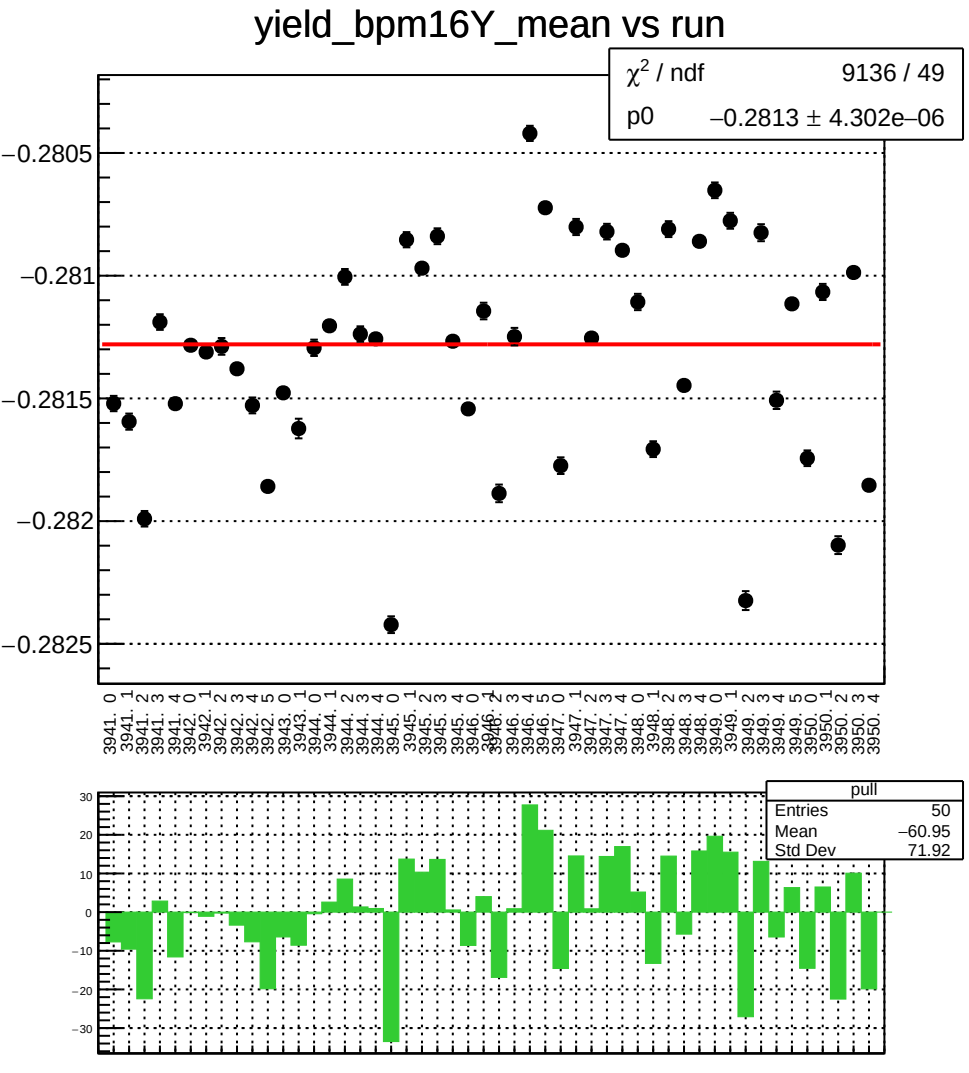

pull1D
Entries 50
Mean 0.002262
Std Dev 4.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

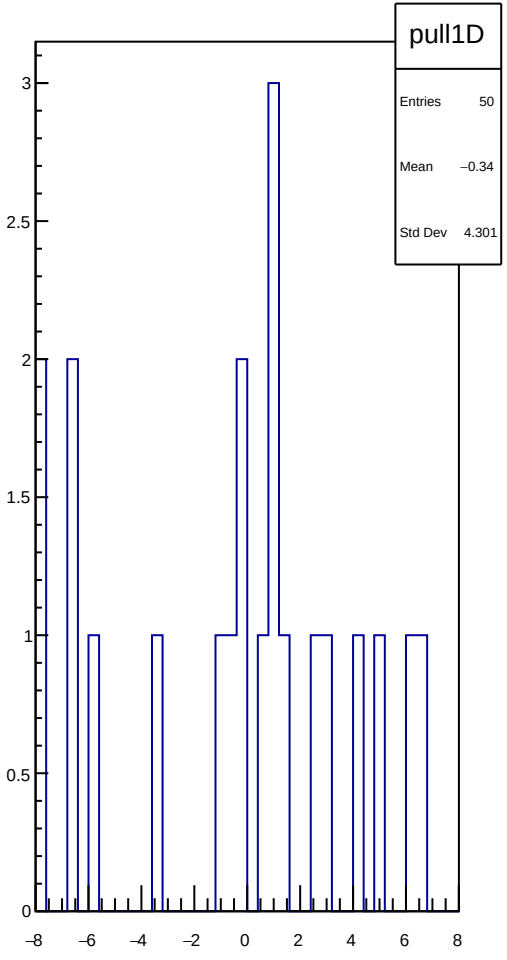

yield_bpm12Y_rms vs run
χ² / ndf 4.614e+04 / 49
p0 0.006535 ± 6.679e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

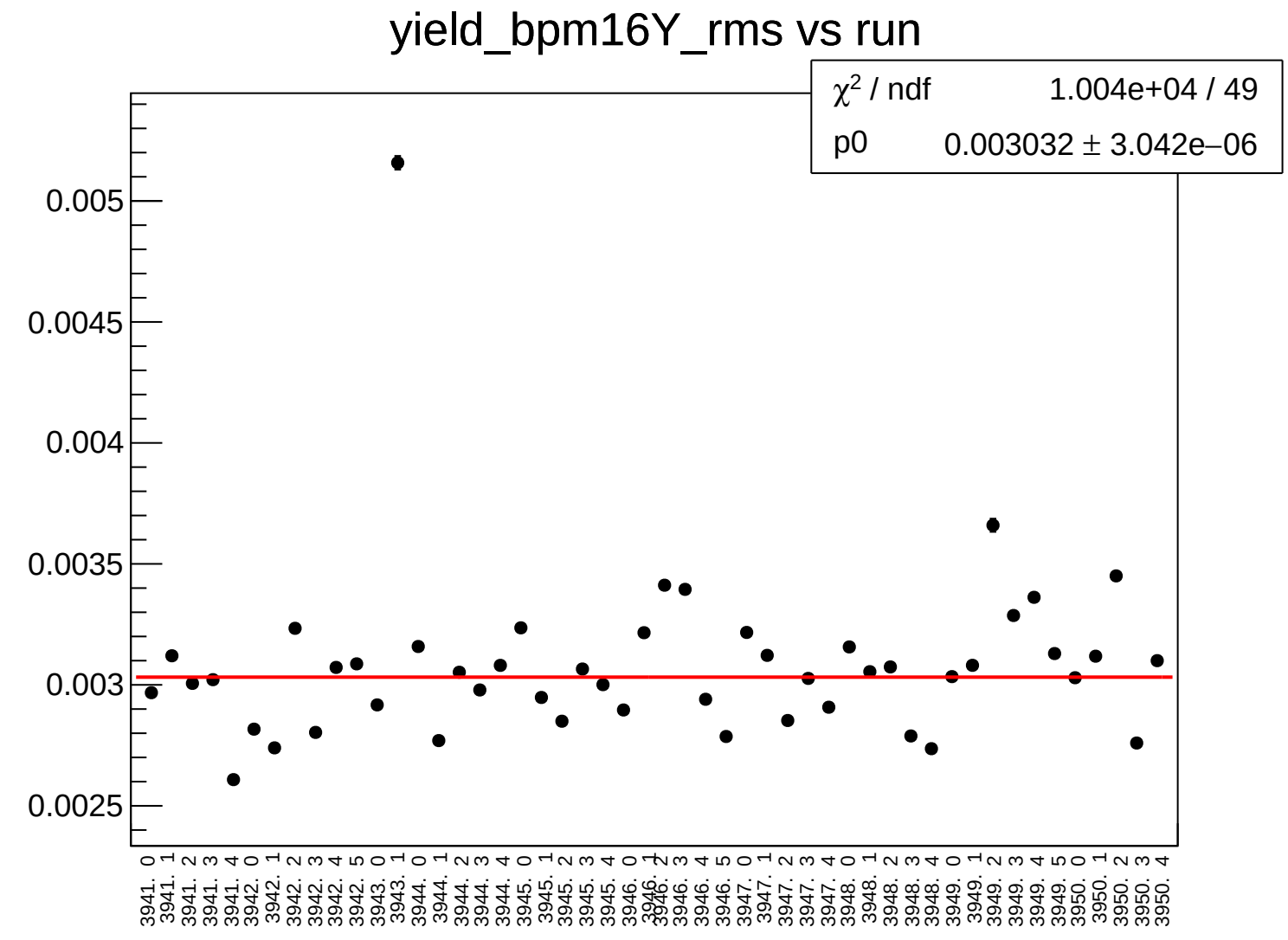

yield_bpm16X_mean vs run
χ² / ndf 1.902e+04 / 49
p0 −0.2678 ± 9.602e−06
−0.262
−0.263
−0.264
−0.265
−0.266
−0.267
−0.268
−0.269
−0.27
pull
Entries 50
Mean 32.81
Std Dev 21.52
50
40
30
20
10
0
−10
−20

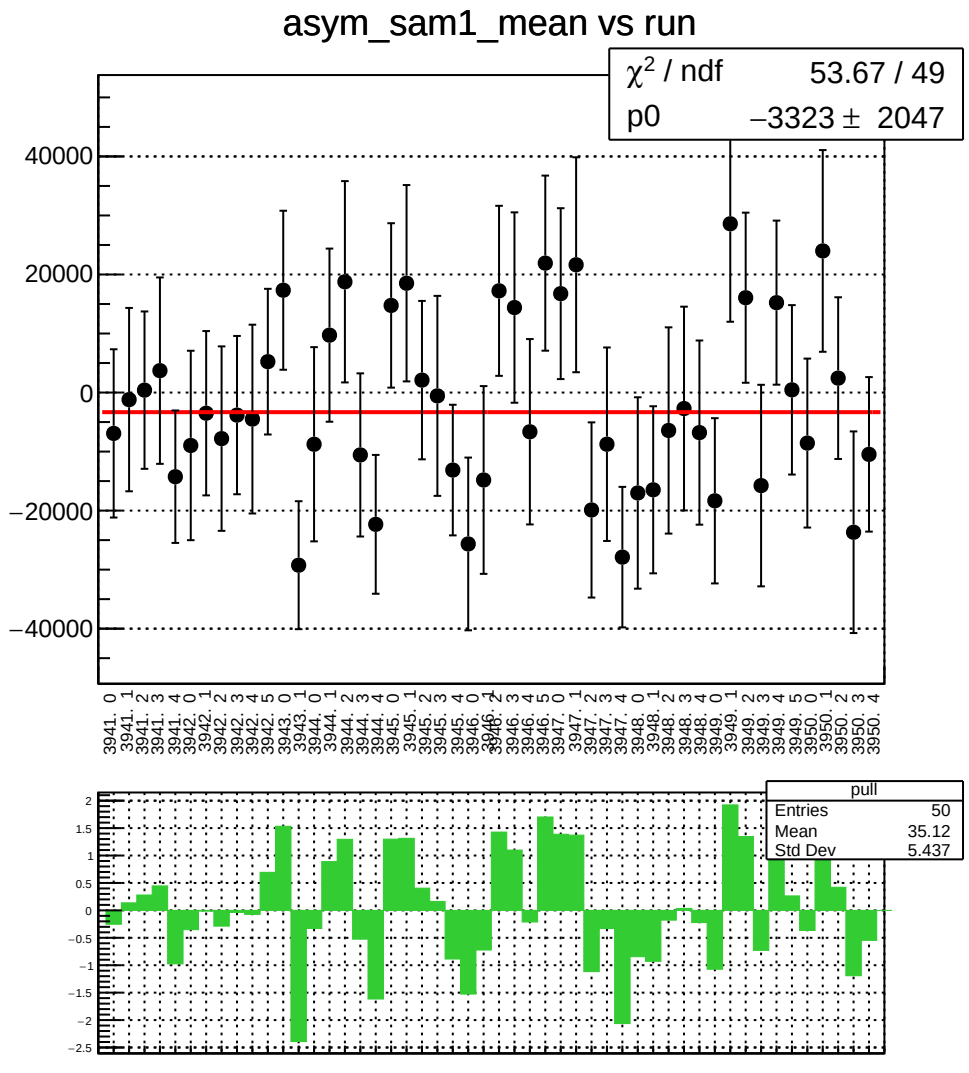

pull1D
Entries 50
Mean 0.1112
Std Dev 4.625
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

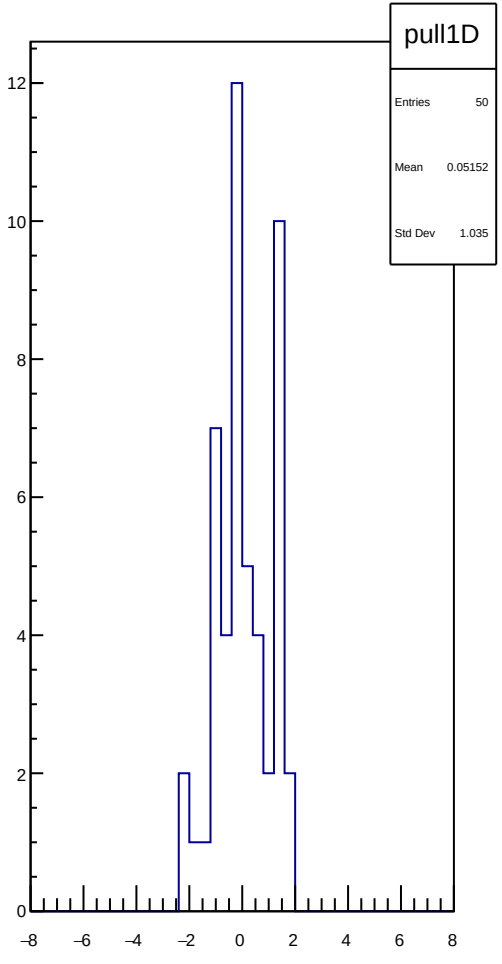

yield_bpm16X_rms vs run
χ² / ndf 1.875e+04 / 49
p0 0.006737 ± 6.789e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

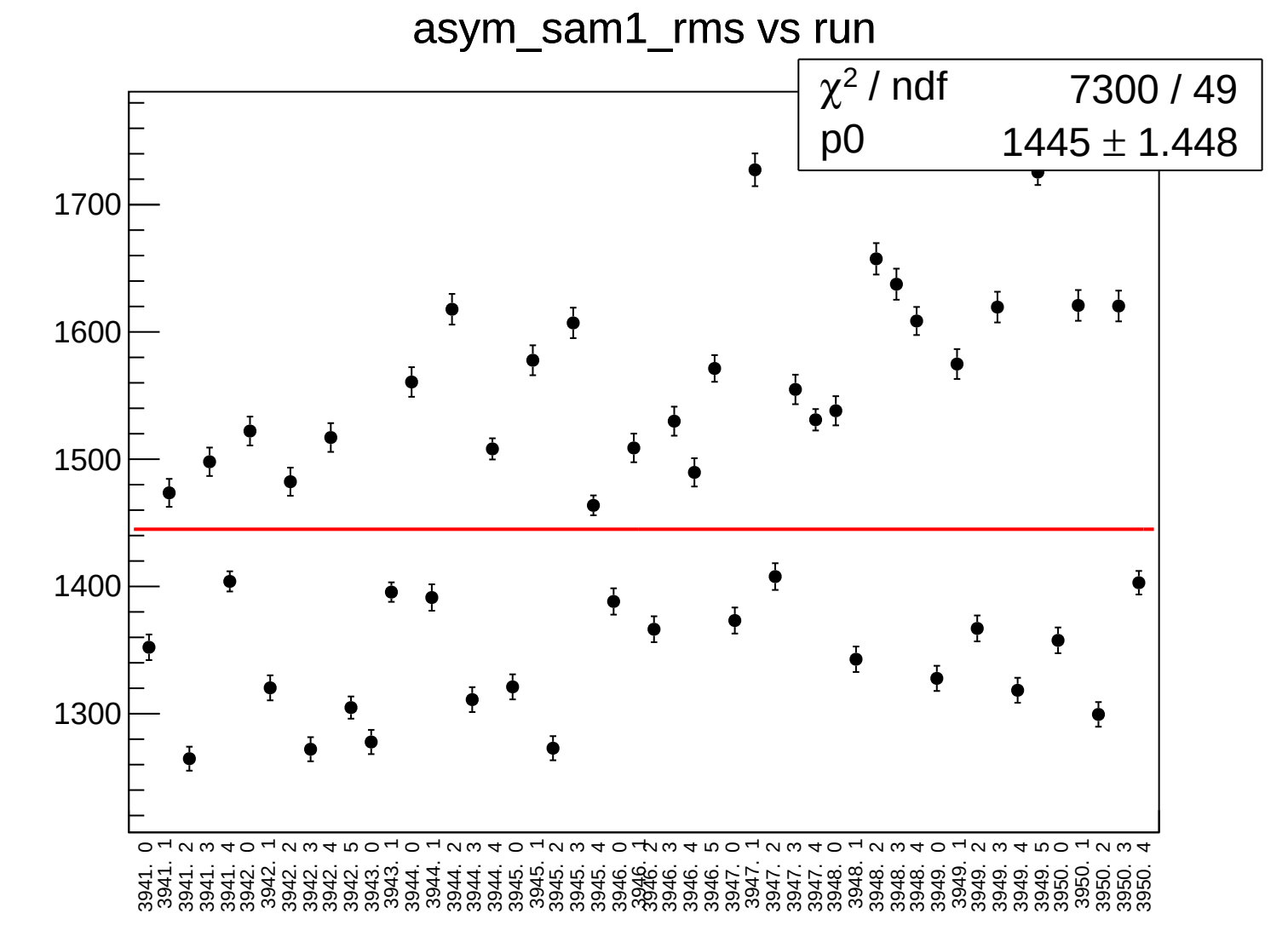

yield_bpm16Y_mean vs run
χ² / ndf 9136 / 49
p0 −0.2813 ± 4.302e−06
−0.2805
−0.281
−0.2815
−0.282
−0.2825
pull
Entries 50
Mean −60.95
Std Dev 71.92
30
20
10
0
−10
−20
−30

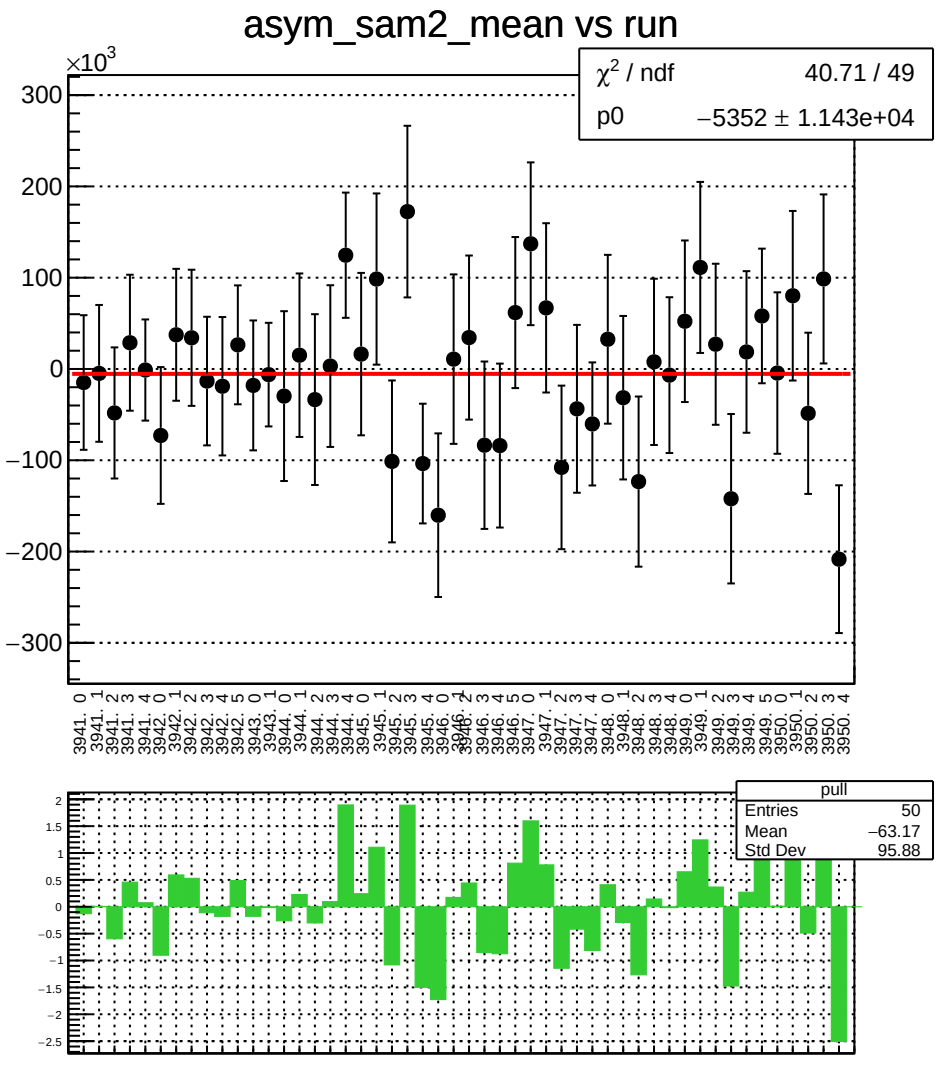

pull1D
Entries 50
Mean −0.34
Std Dev 4.301
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

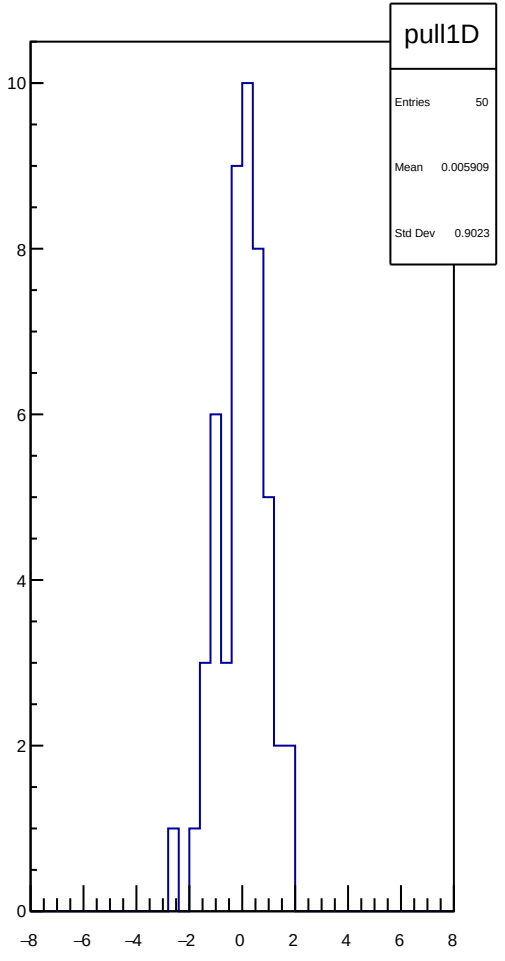

yield_bpm16Y_rms vs run
χ² / ndf 1.004e+04 / 49
p0 0.003032 ± 3.042e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

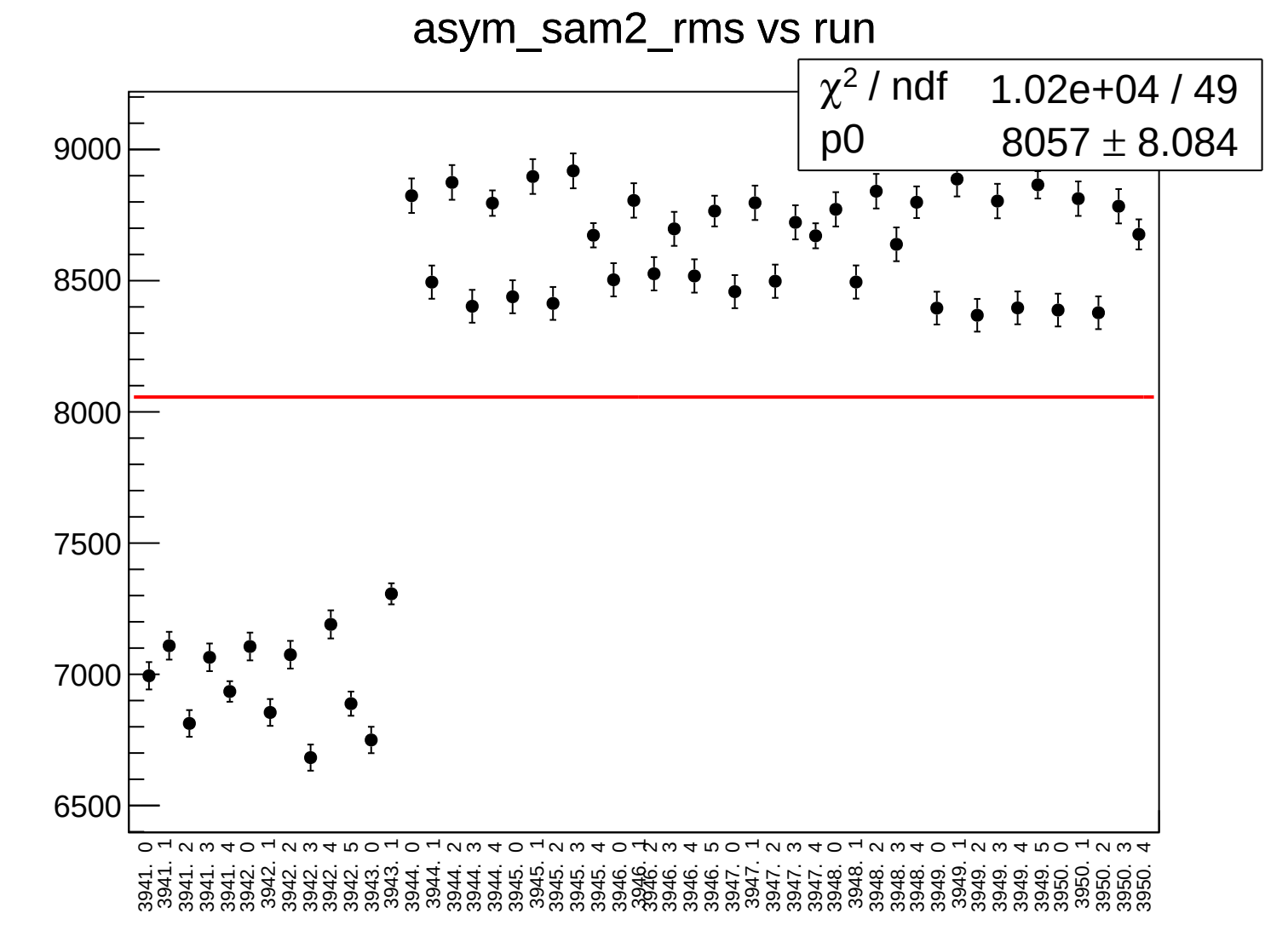

asym_sam1_mean vs run
χ² / ndf 53.67 / 49
p0 −3323 ± 2047
40000
20000
0
−20000
−40000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 35.12
Std Dev 5.437
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

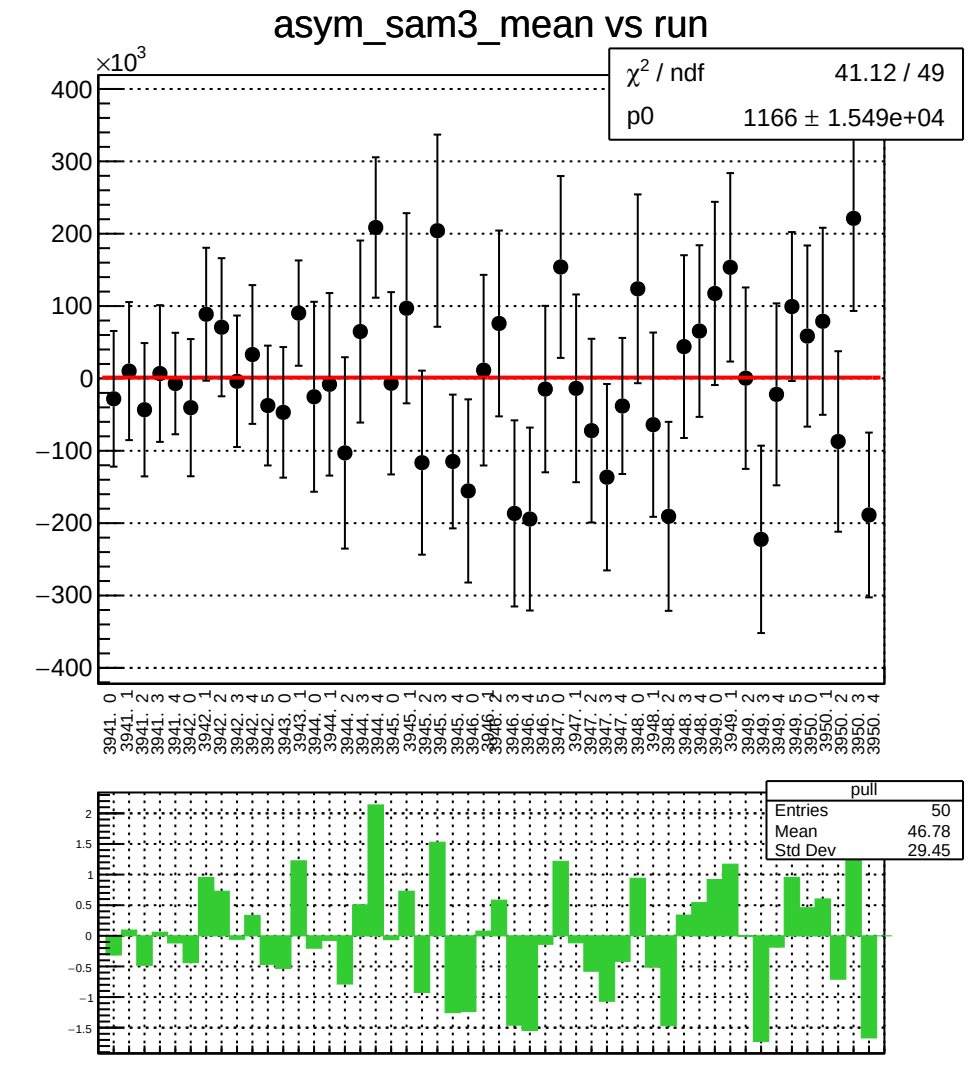

pull1D
Entries 50
Mean 0.05152
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

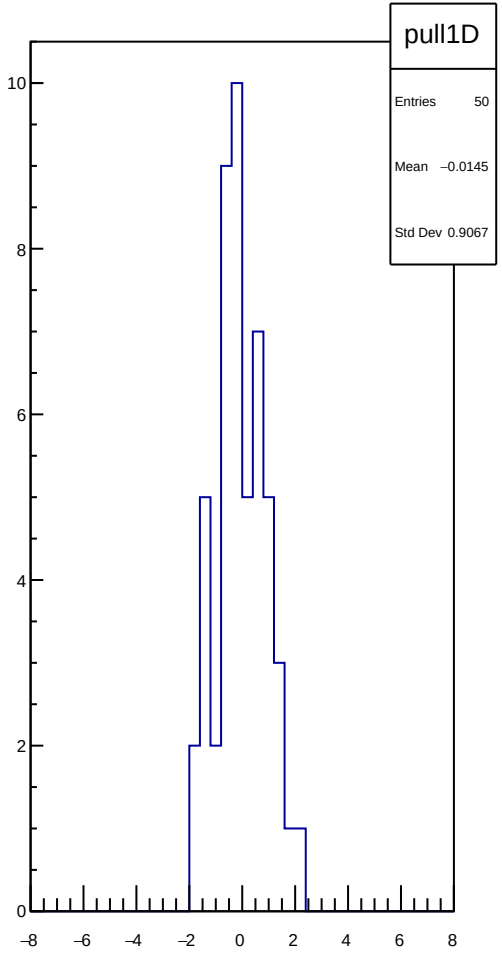

asym_sam1_rms vs run
χ² / ndf 7300 / 49
p0 1445 ± 1.448
1700
1600
1500
1400
1300
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

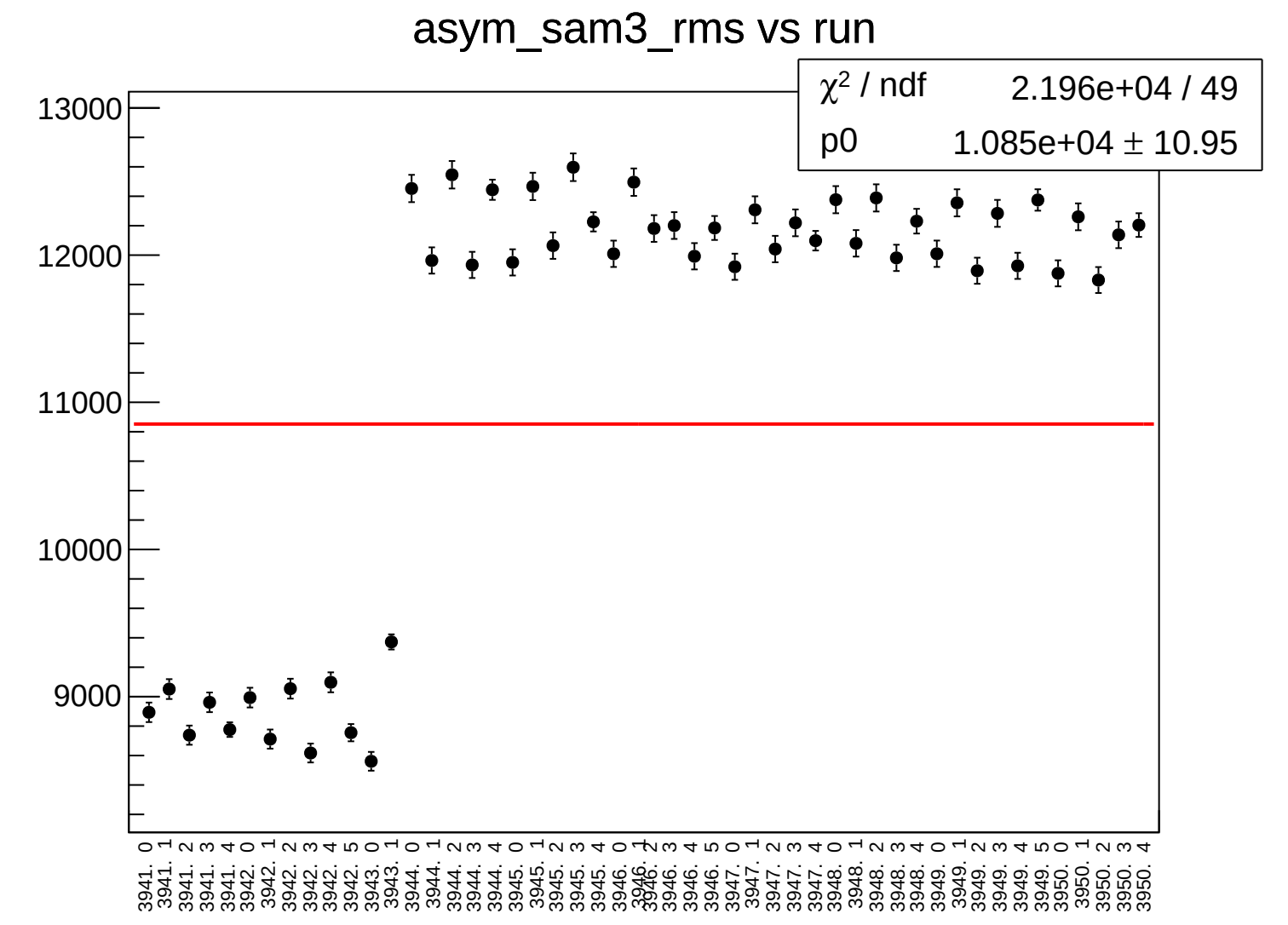

asym_sam2_mean vs run
×10^3
χ² / ndf 40.71 / 49
p0 −5352 ± 1.143e+04
pull
Entries 50
Mean −63.17
Std Dev 95.88

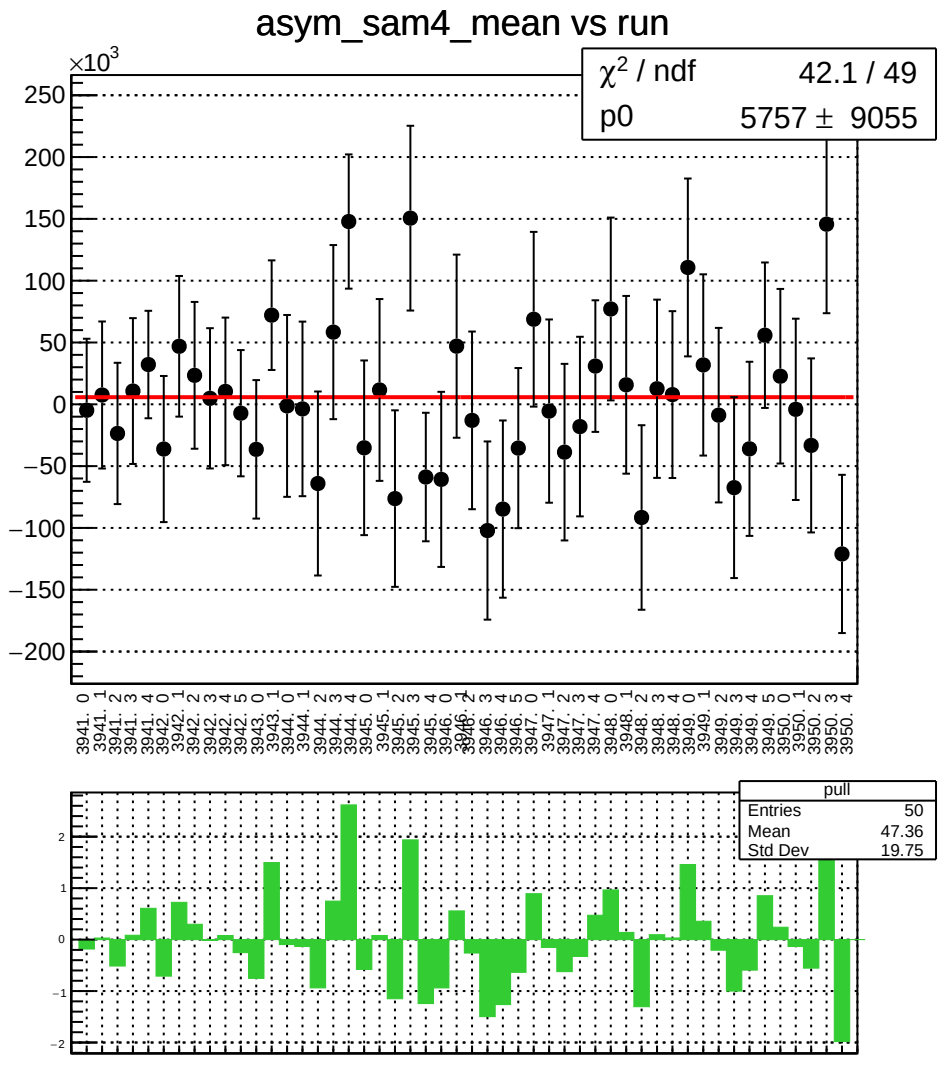

pull1D
Entries 50
Mean 0.005909
Std Dev 0.9023

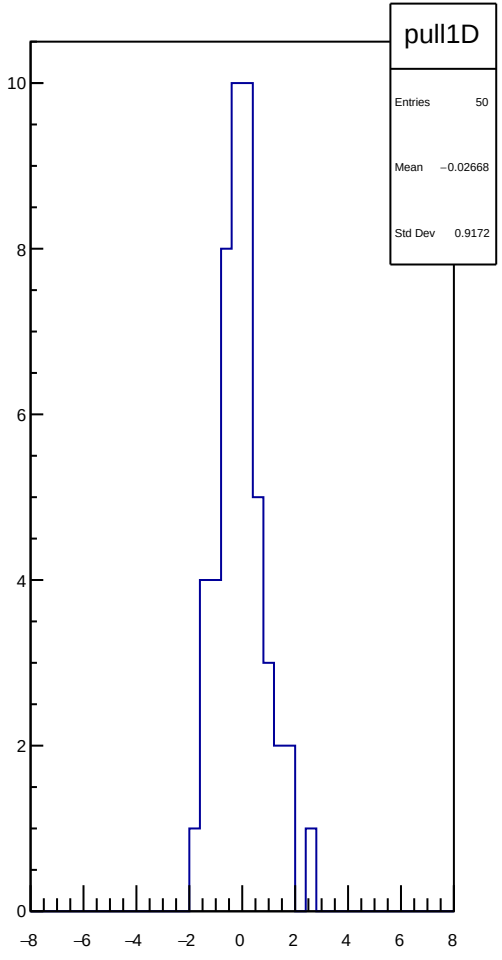

asym_sam2_rms vs run
χ² / ndf 1.02e+04 / 49
p0 8057 ± 8.084
9000
8500
8000
7500
7000
6500
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

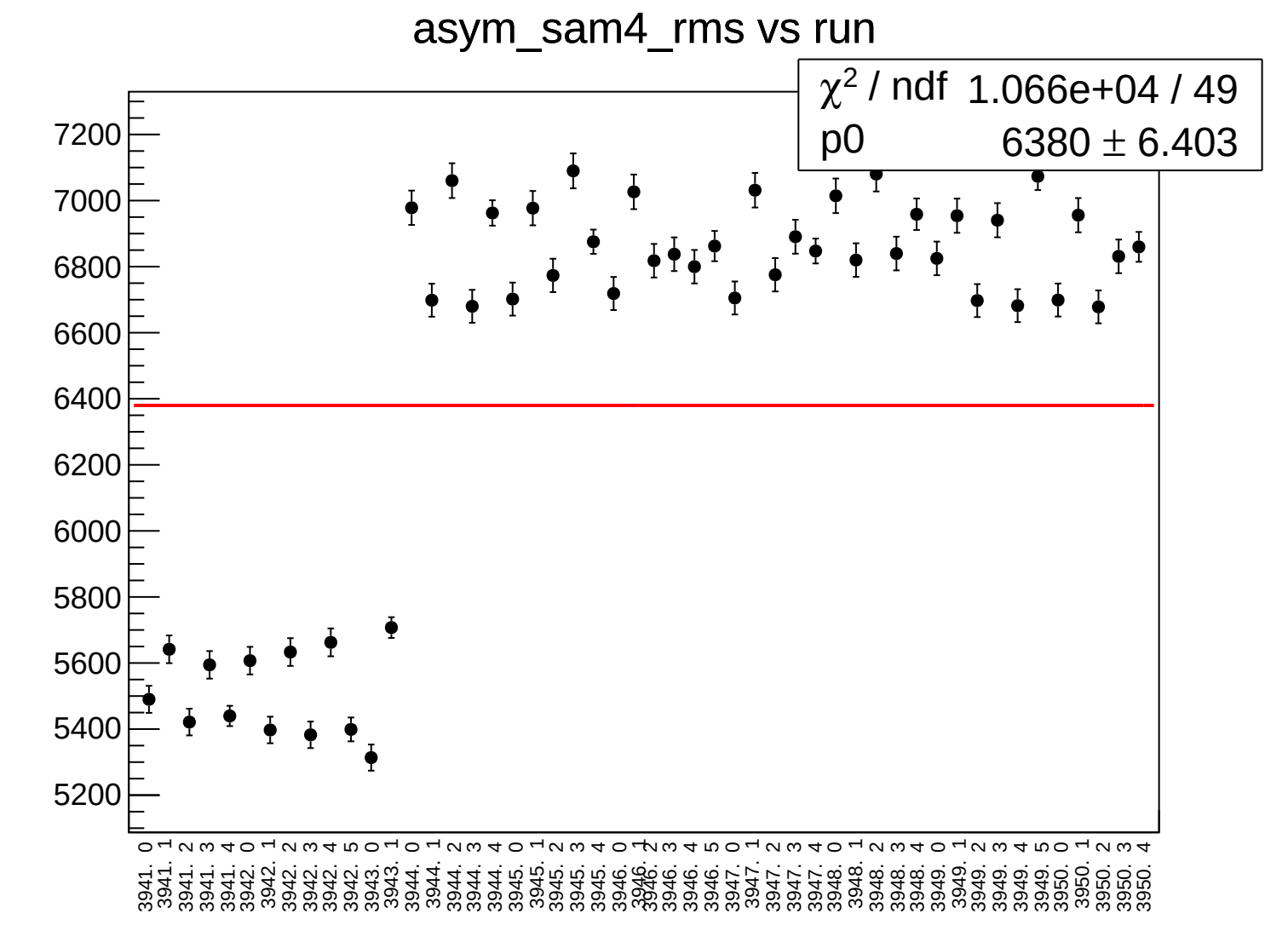

asym_sam3_mean vs run
×10^3
χ² / ndf 41.12 / 49
p0 1166 ± 1.549e+04
pull
Entries 50
Mean 46.78
Std Dev 29.45

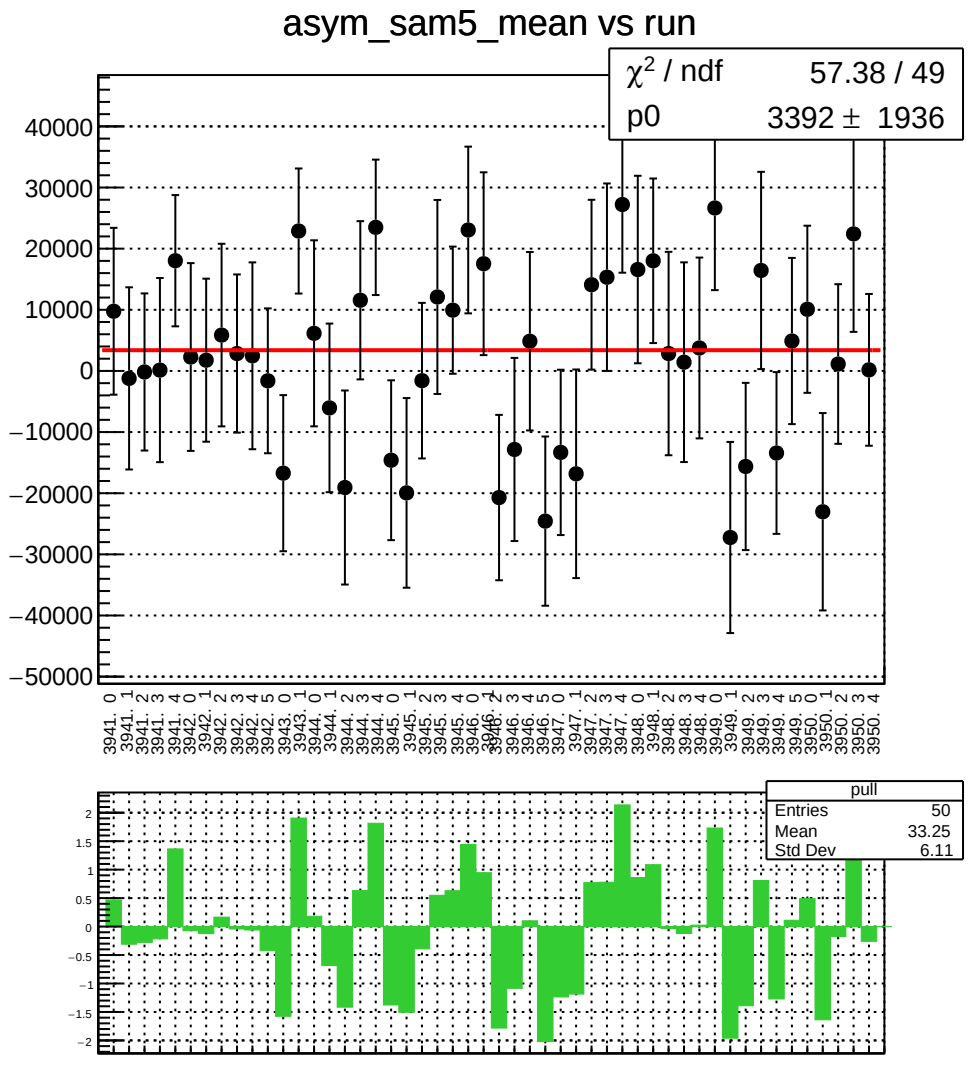

pull1D
Entries 50
Mean −0.0145
Std Dev 0.9067

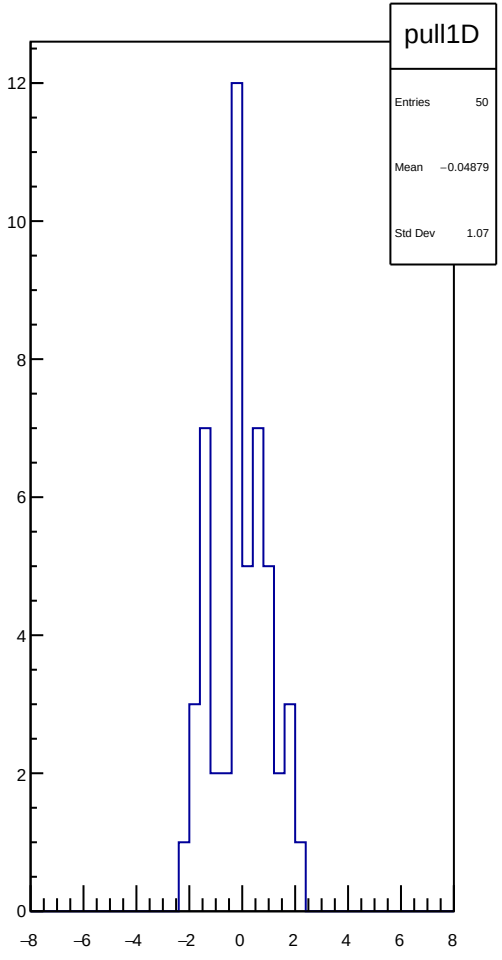

asym_sam3_rms vs run
χ² / ndf 2.196e+04 / 49
p0 1.085e+04 ± 10.95
13000
12000
11000
10000
9000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

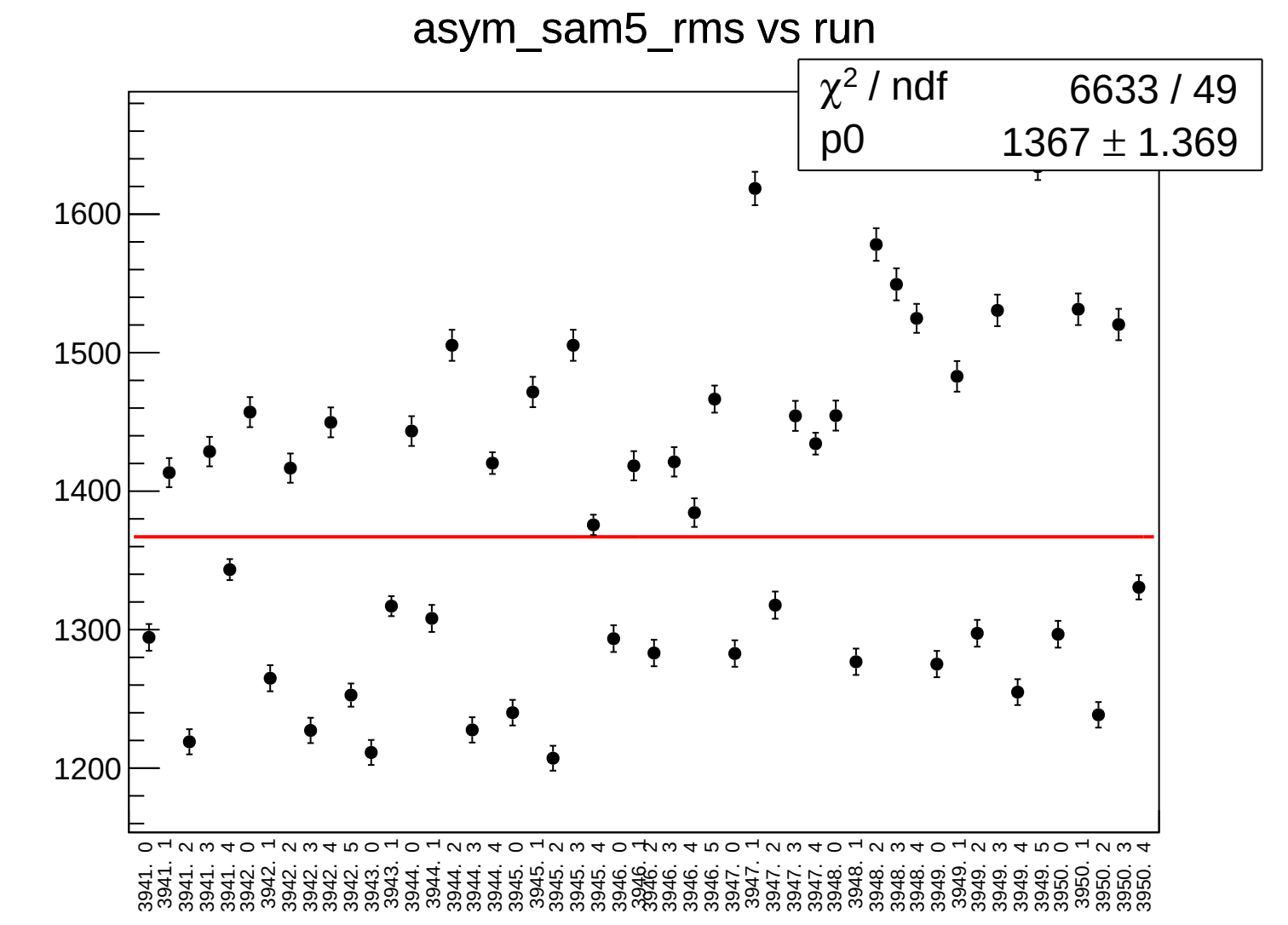

asym_sam4_mean vs run
×10^3
χ² / ndf 42.1 / 49
p0 5757 ± 9055
250
200
150
100
50
0
−50
−100
−150
−200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 47.36
Std Dev 19.75
2
1
0
−1
−2

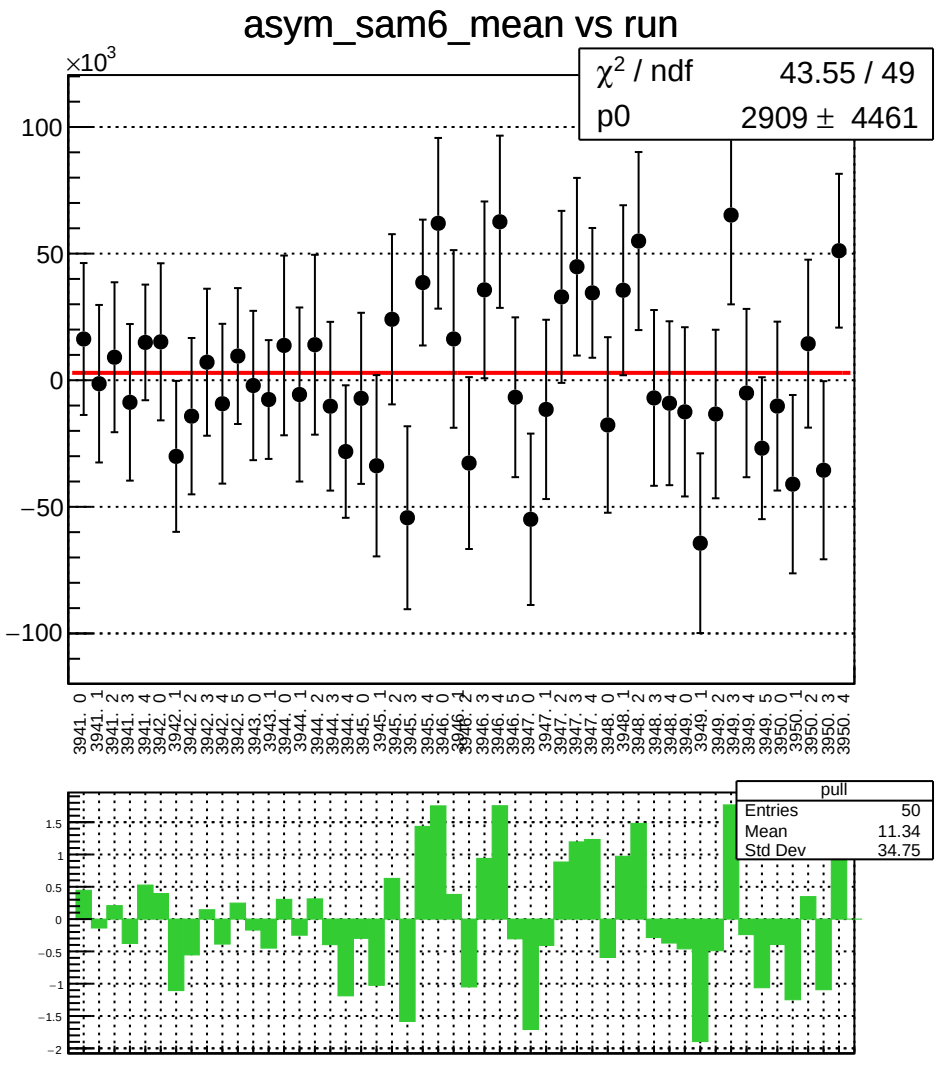

pull1D
Entries 50
Mean −0.02668
Std Dev 0.9172
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

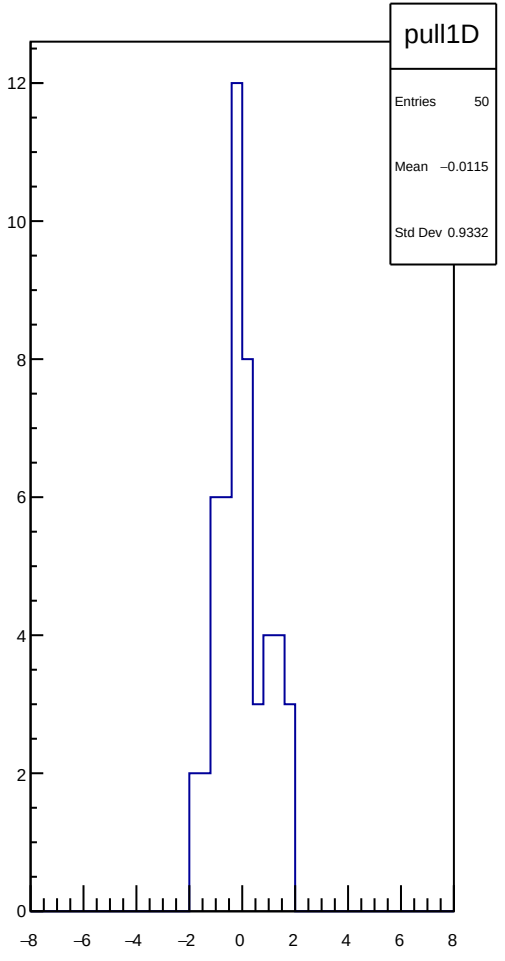

asym_sam4_rms vs run
χ² / ndf 1.066e+04 / 49
p0 6380 ± 6.403
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

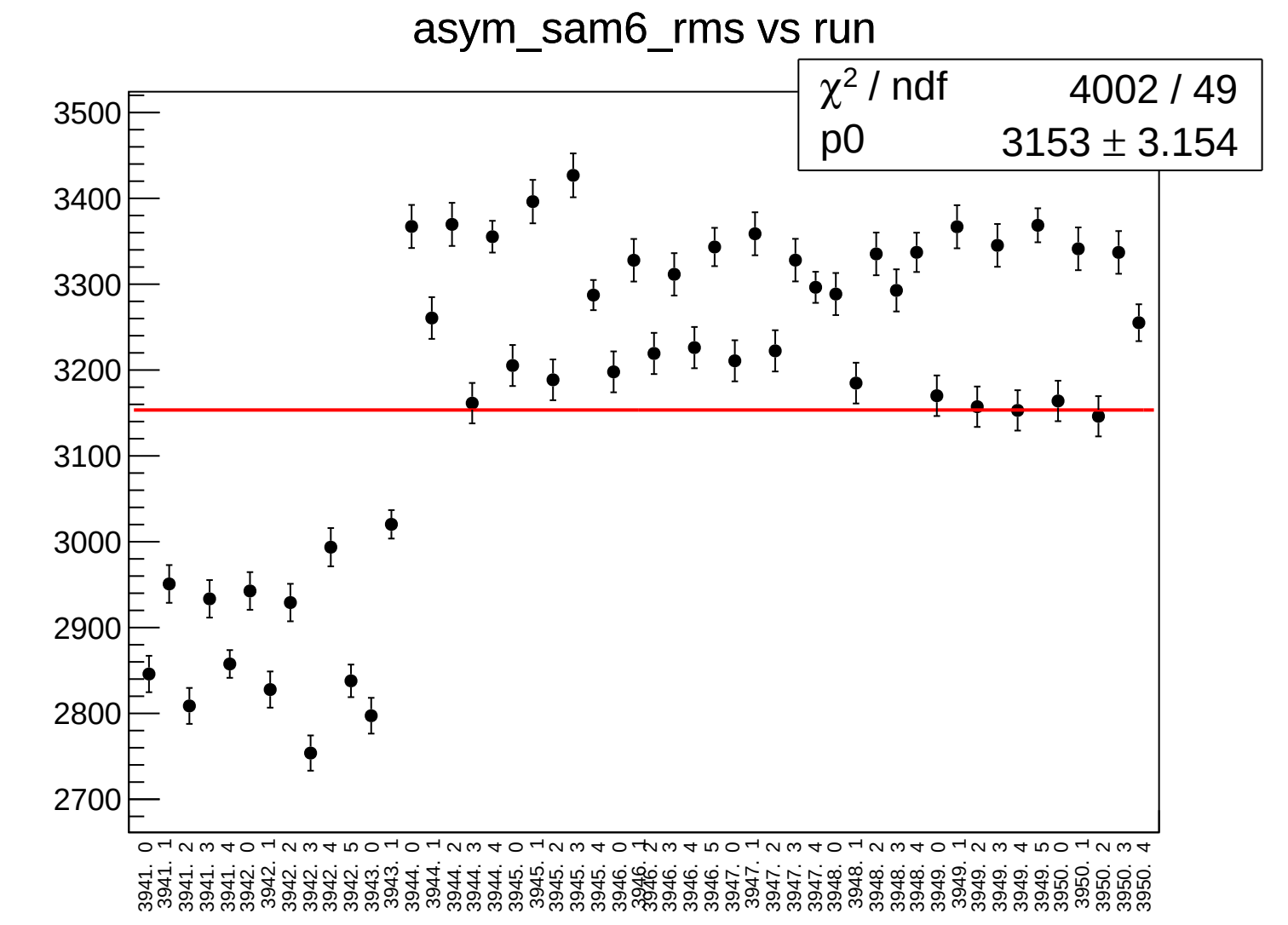

asym_sam5_mean vs run
χ² / ndf 57.38 / 49
p0 3392 ± 1936
pull
Entries 50
Mean 33.25
Std Dev 6.11

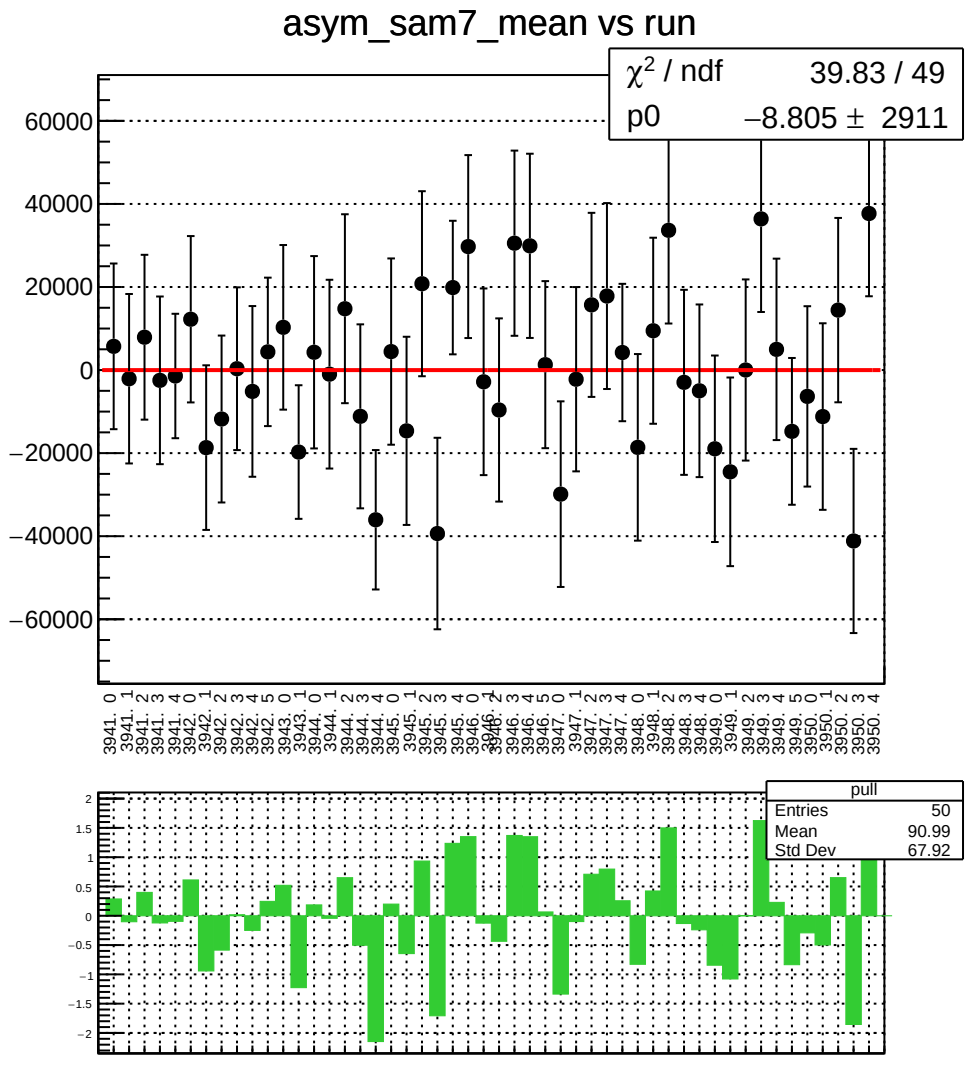

pull1D
Entries 50
Mean −0.04879
Std Dev 1.07

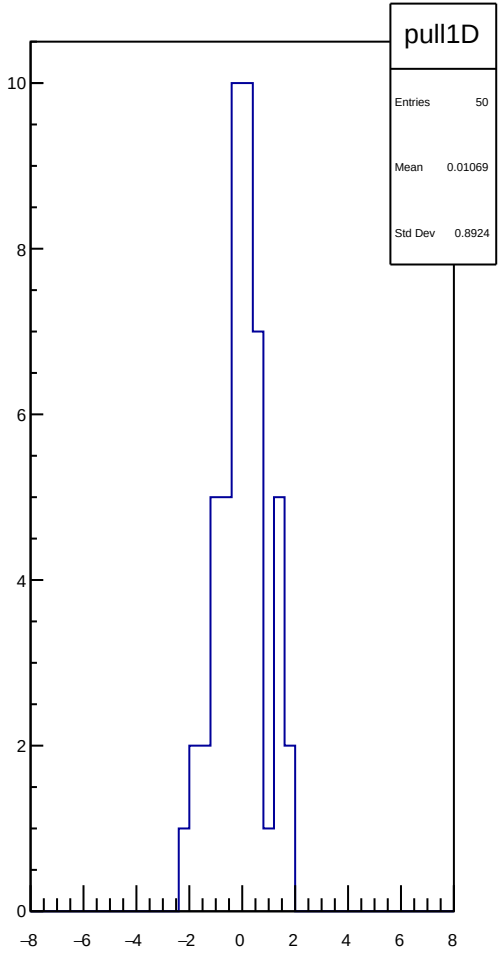

asym_sam5_rms vs run
χ² / ndf 6633 / 49
p0 1367 ± 1.369
1600
1500
1400
1300
1200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

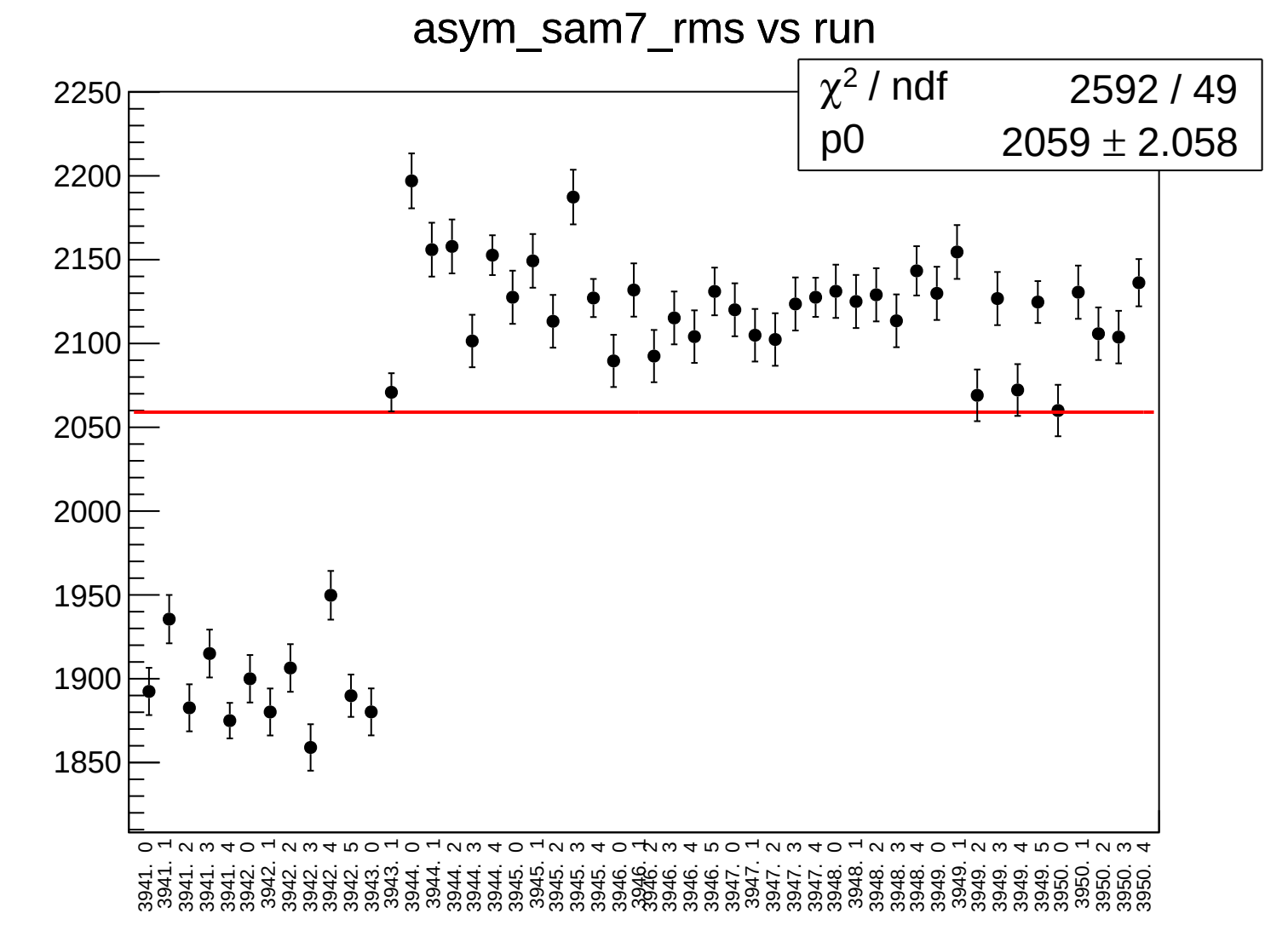

asym_sam6_mean vs run
$\chi^2$ / ndf 43.55 / 49
p0 2909 ± 4461
×10^3
100
50
0
−50
−100
pull
Entries 50
Mean 11.34
Std Dev 34.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2

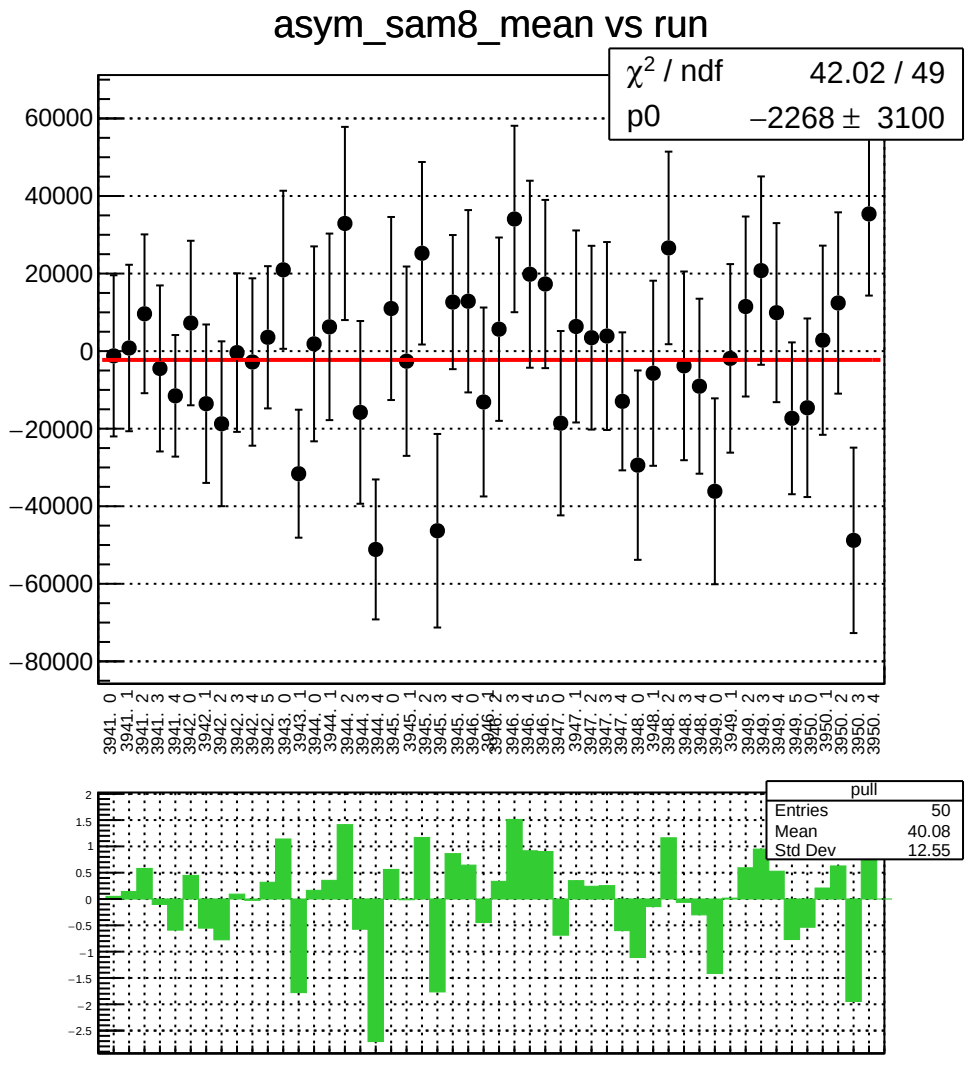

pull1D
Entries 50
Mean −0.0115
Std Dev 0.9332
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

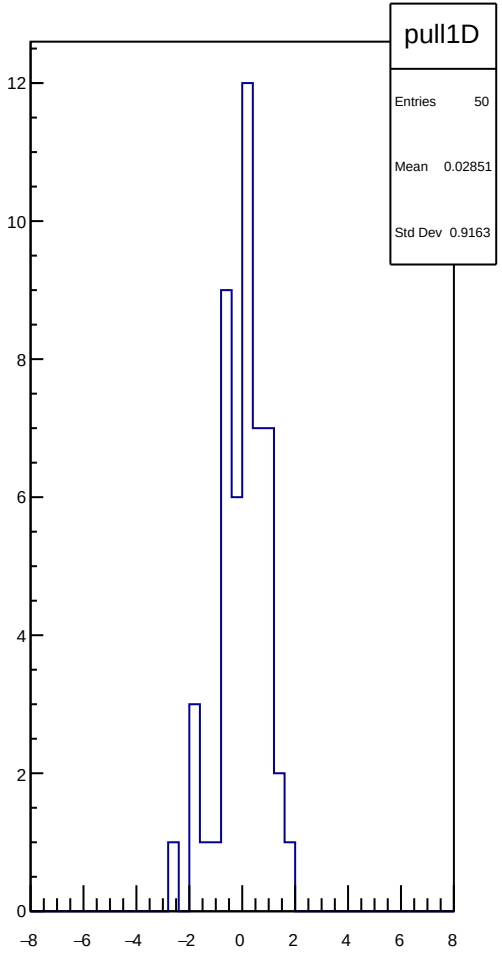

asym_sam6_rms vs run
χ² / ndf 4002 / 49
p0 3153 ± 3.154
3500
3400
3300
3200
3100
3000
2900
2800
2700
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

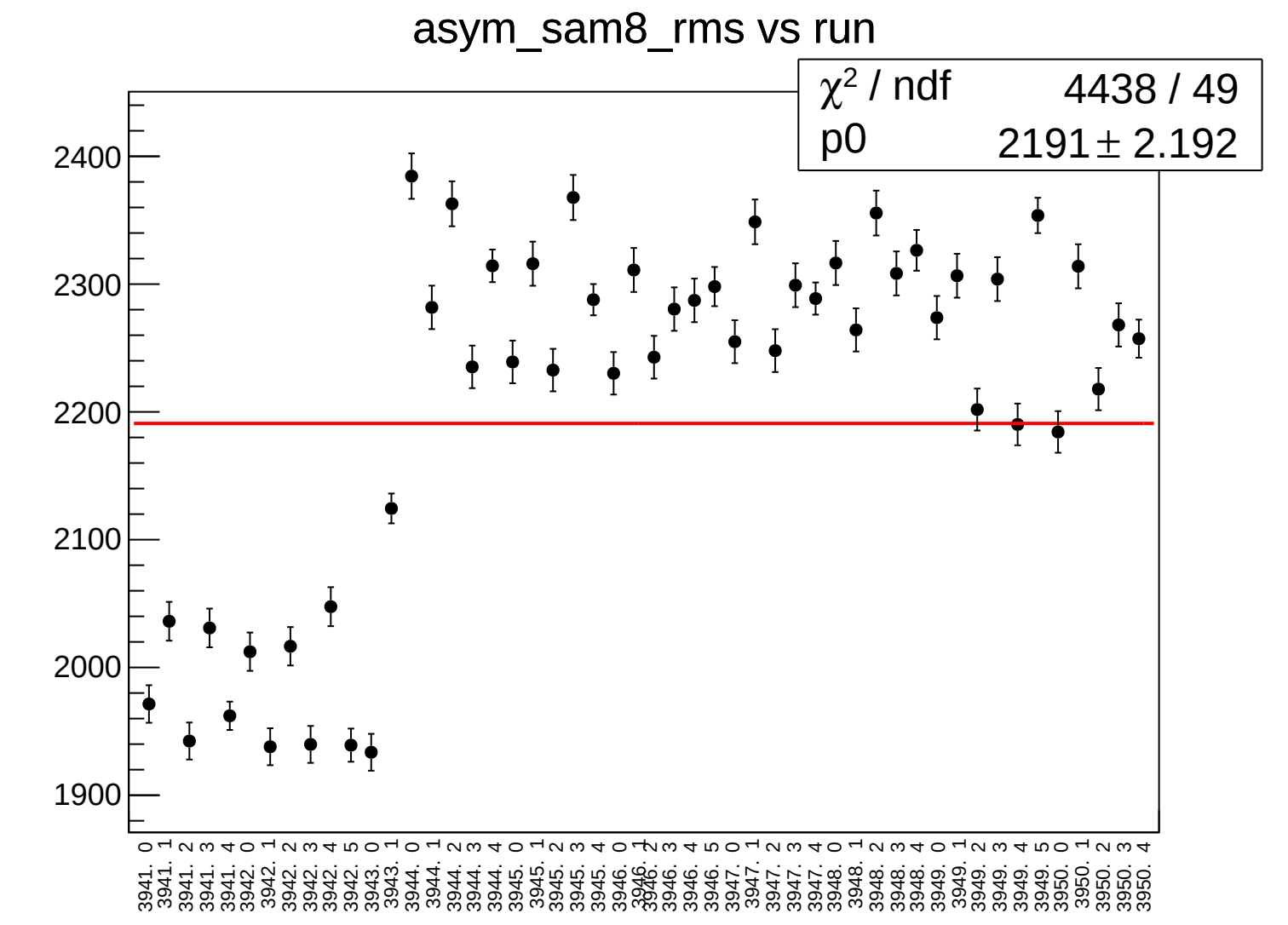

asym_sam7_mean vs run
χ² / ndf 39.83 / 49
p0 −8.805 ± 2911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean 90.99
Std Dev 67.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

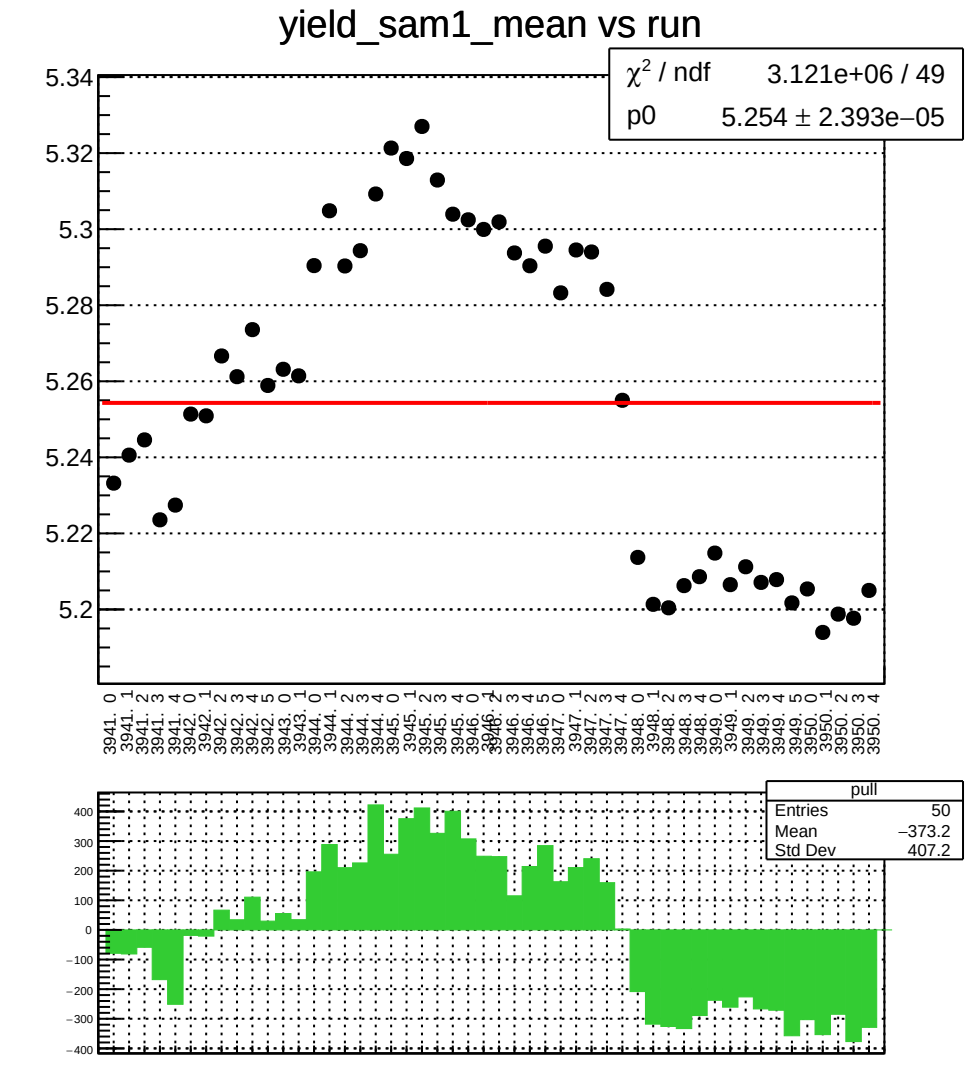

pull1D
Entries 50
Mean 0.01069
Std Dev 0.8924
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

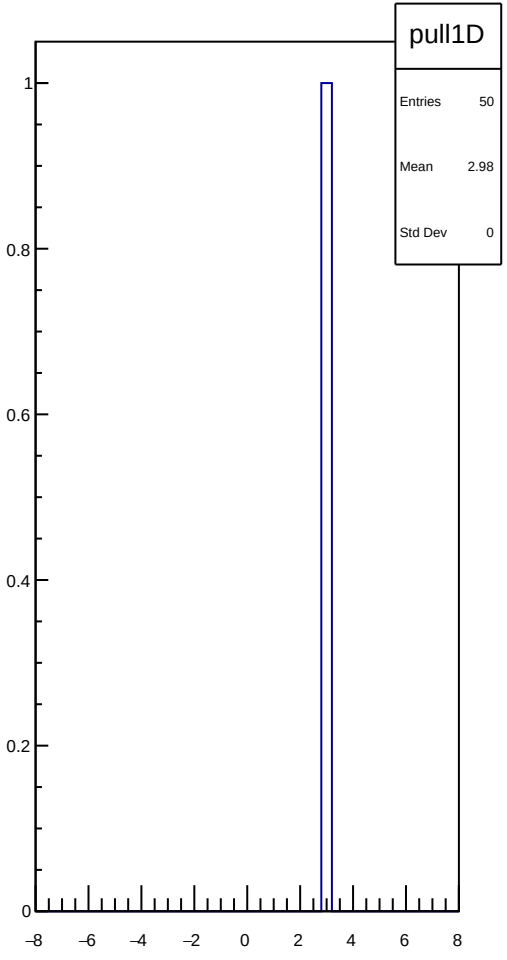

asym_sam7_rms vs run
χ² / ndf 2592 / 49
p0 2059 ± 2.058
2250
2200
2150
2100
2050
2000
1950
1900
1850
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

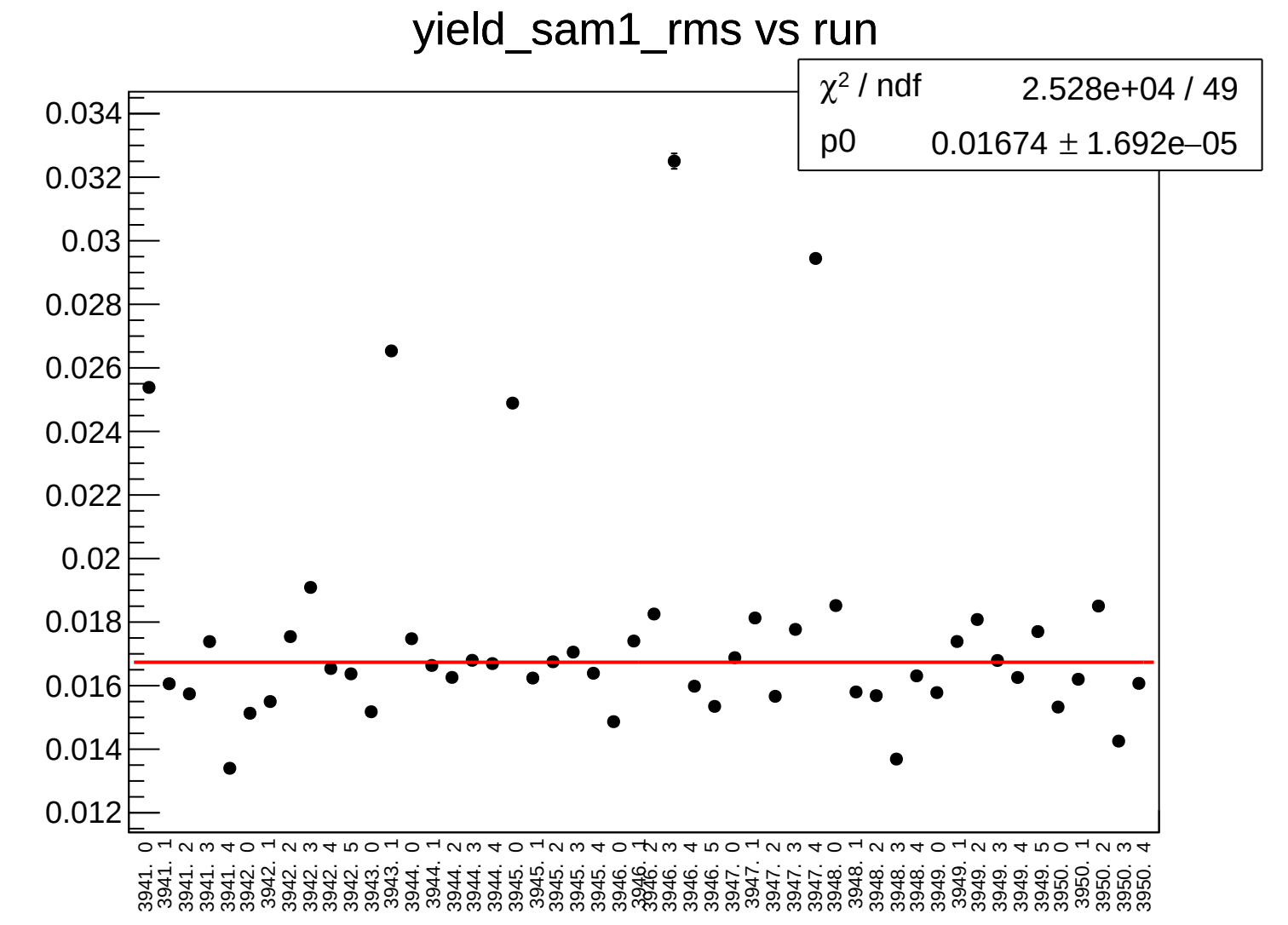

asym_sam8_mean vs run
χ² / ndf 42.02 / 49
p0 −2268 ± 3100
60000
40000
20000
0
−20000
−40000
−60000
−80000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 40.08
Std Dev 12.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

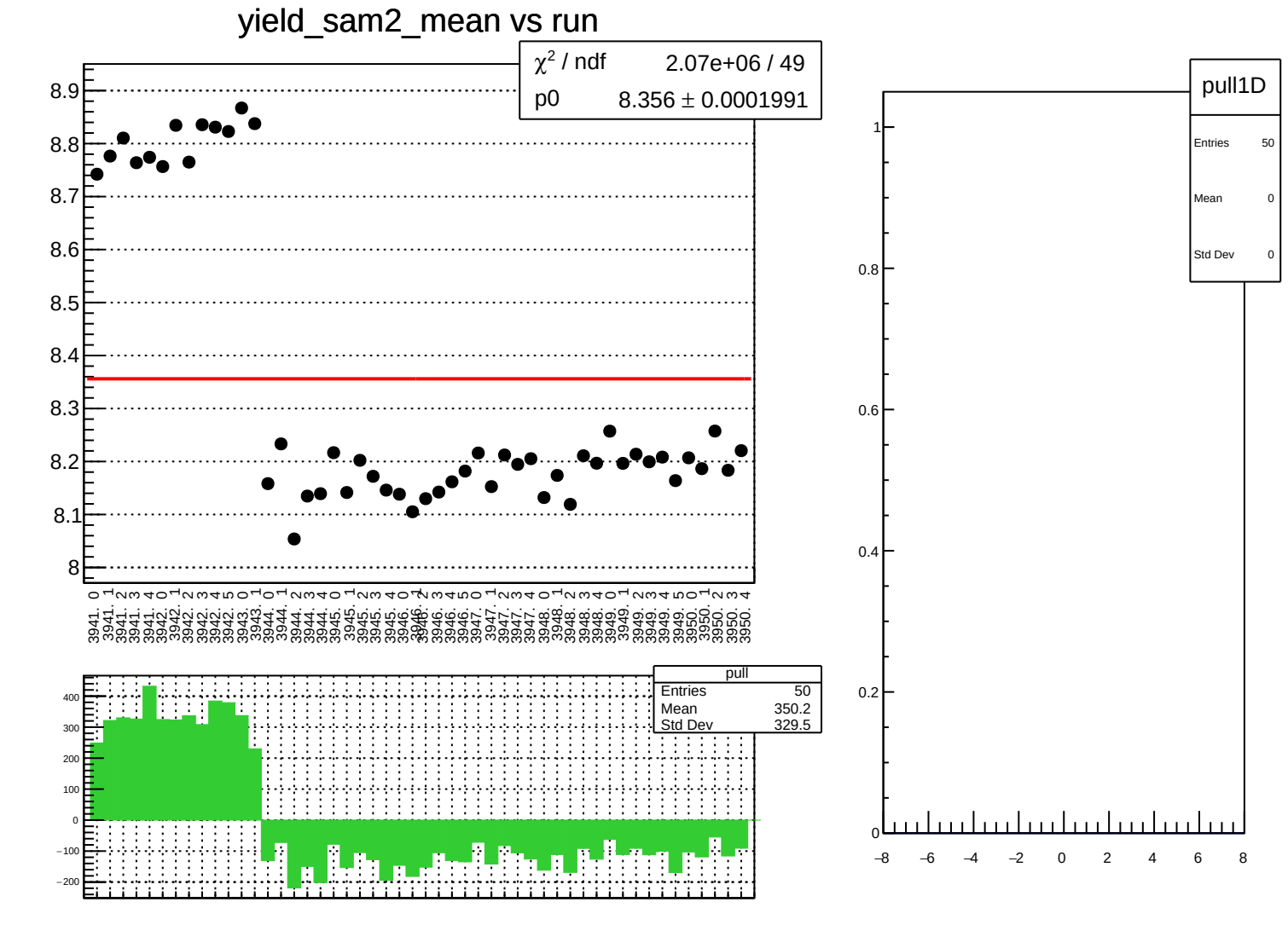

pull1D
Entries 50
Mean 0.02851
Std Dev 0.9163
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

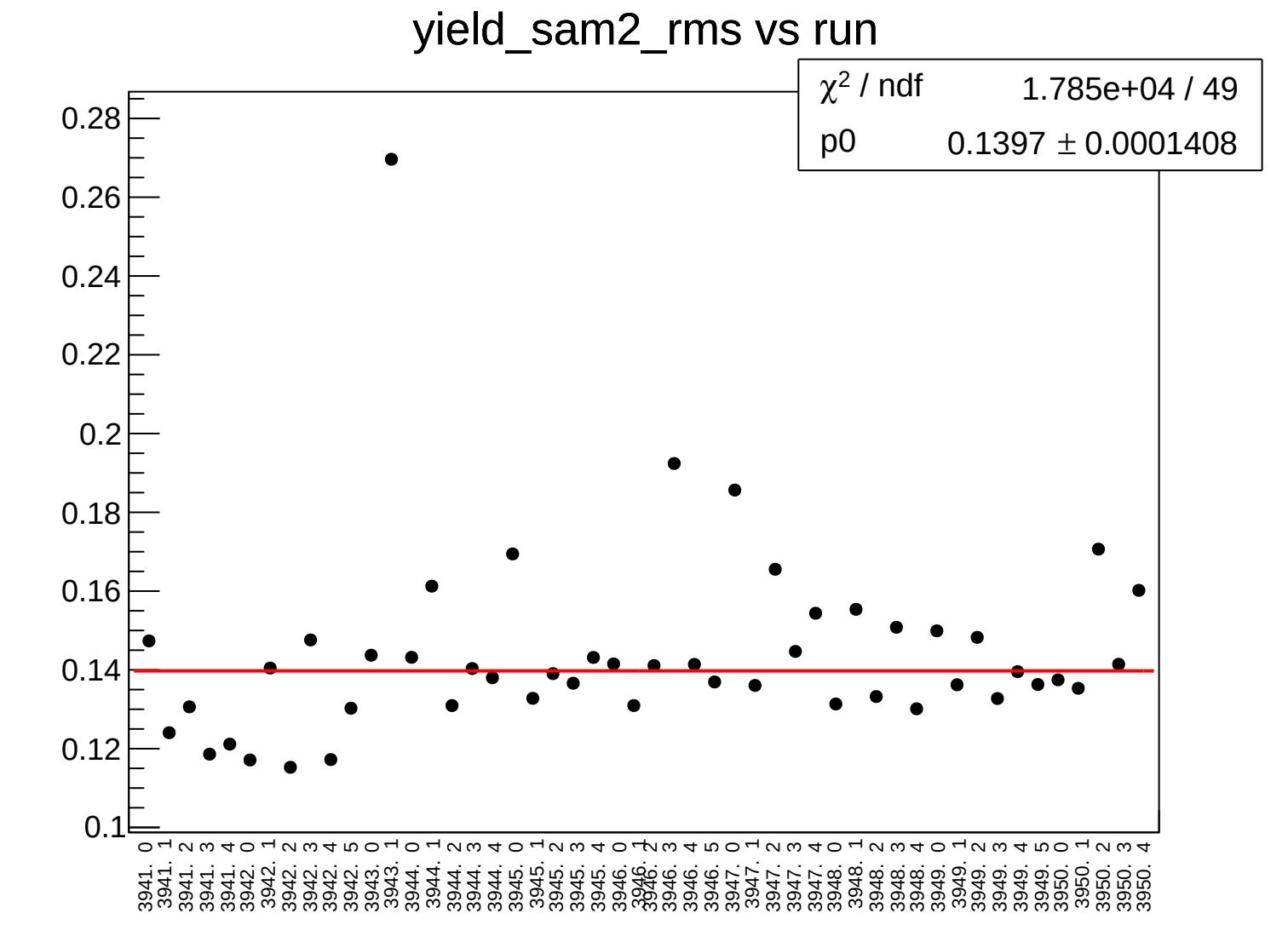

asym_sam8_rms vs run
χ² / ndf 4438 / 49
p0 2191 ± 2.192
2400
2300
2200
2100
2000
1900
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

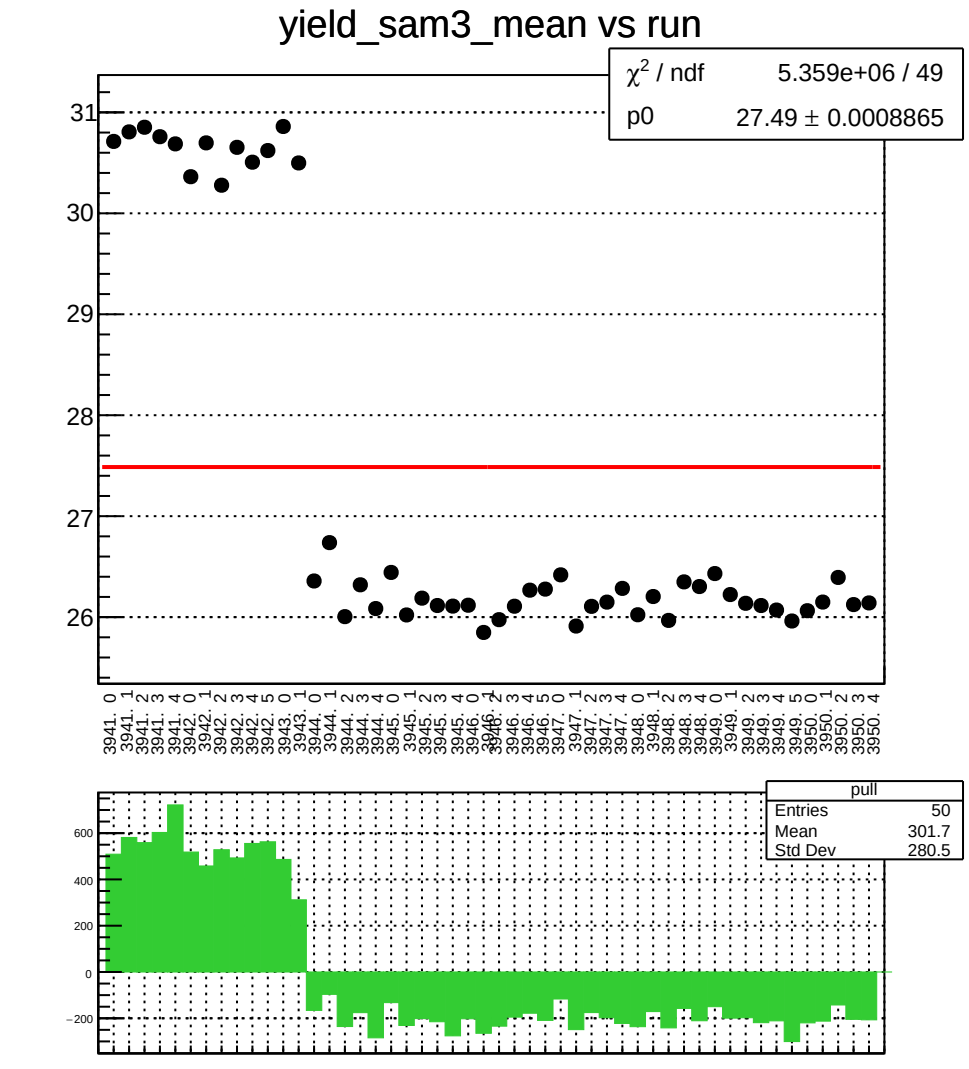

yield_sam1_mean vs run
χ² / ndf 3.121e+06 / 49
p0 5.254 ± 2.393e−05
5.34
5.32
5.3
5.28
5.26
5.24
5.22
5.2
pull
Entries 50
Mean −373.2
Std Dev 407.2
400
300
200
100
0
−100
−200
−300
−400

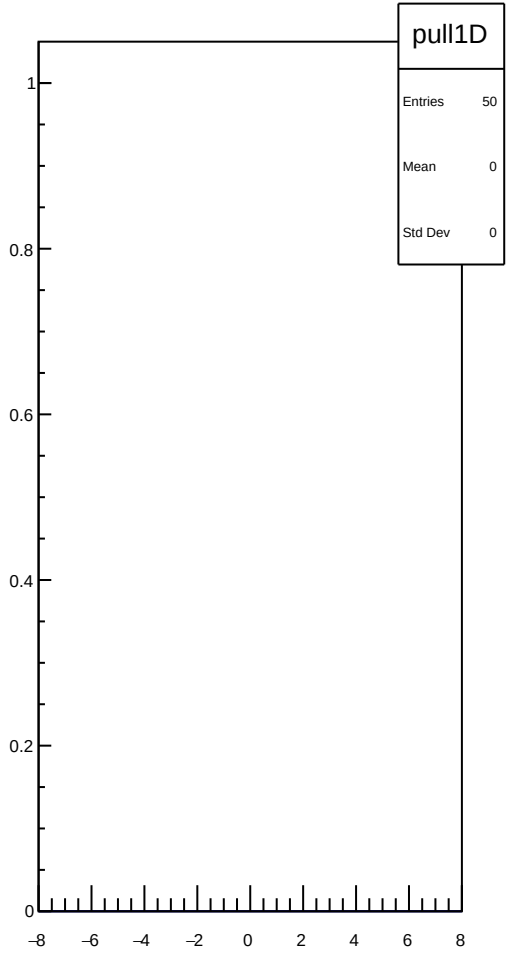

pull1D
Entries 50
Mean 2.98
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

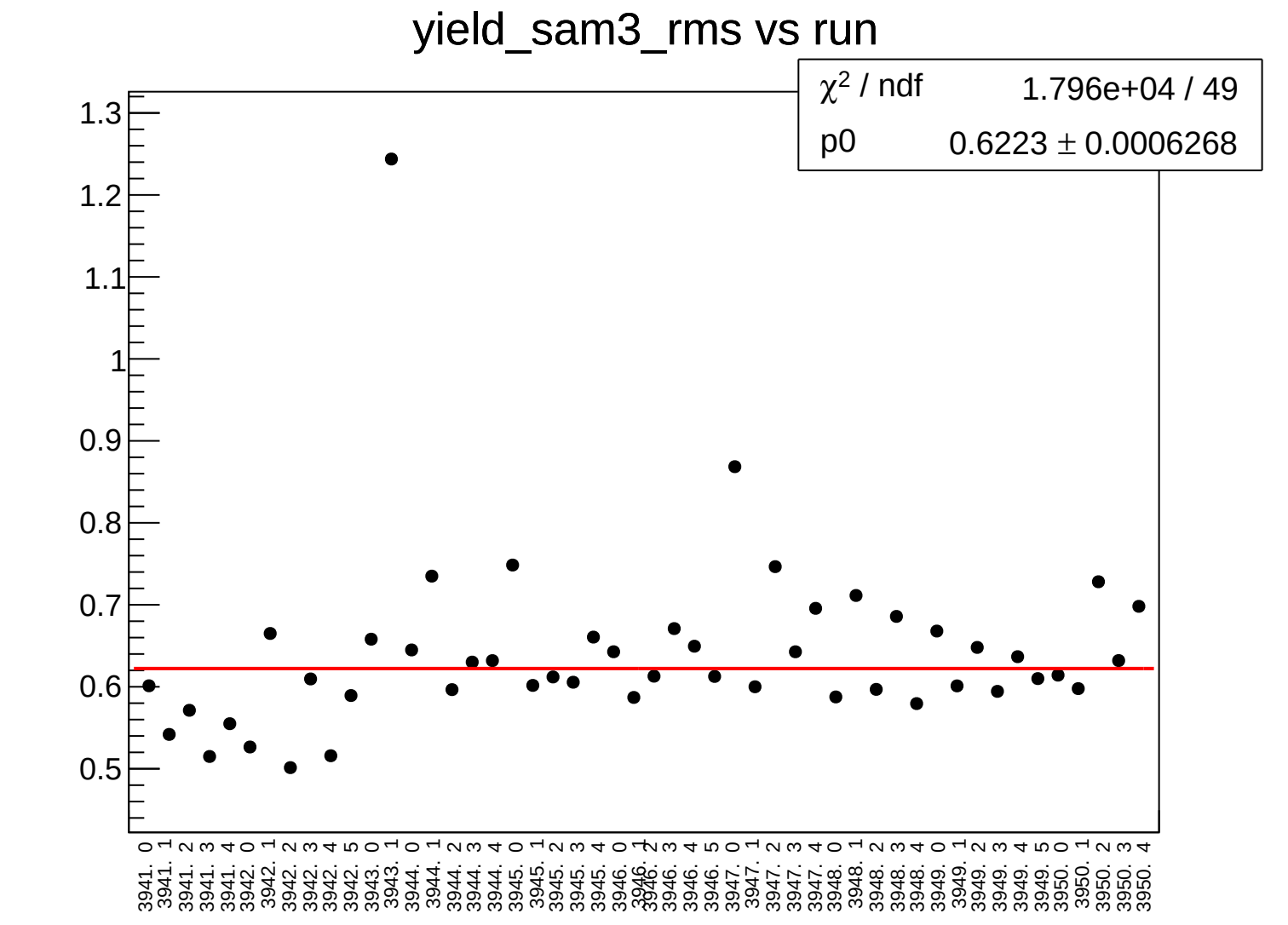

yield_sam1_rms vs run
χ² / ndf 2.528e+04 / 49
p0 0.01674 ± 1.692e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

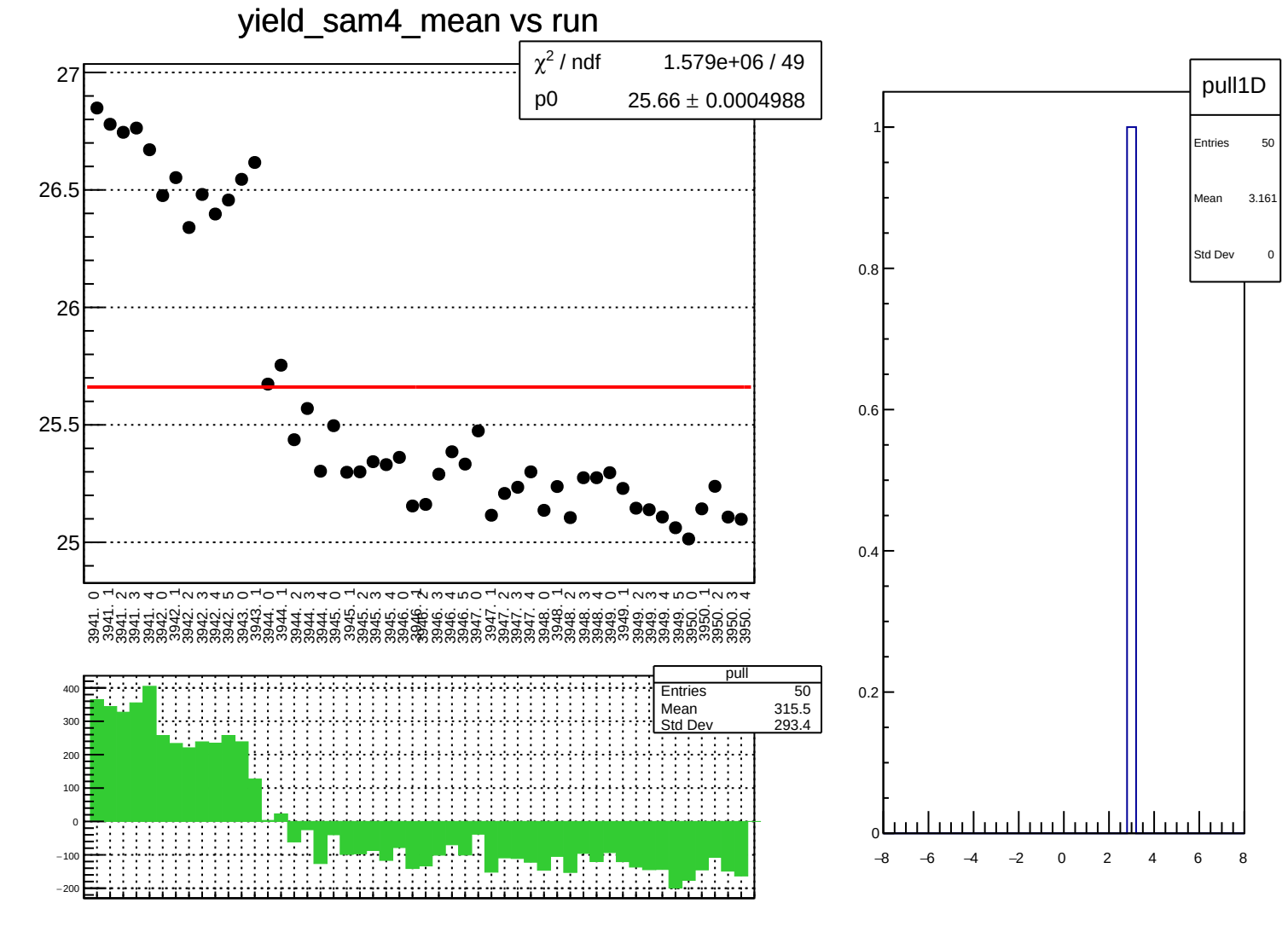

yield_sam2_mean vs run
χ² / ndf 2.07e+06 / 49
p0 8.356 ± 0.0001991
pull
Entries 50
Mean 350.2
Std Dev 329.5
pull1D
Entries 50
Mean 0
Std Dev 0

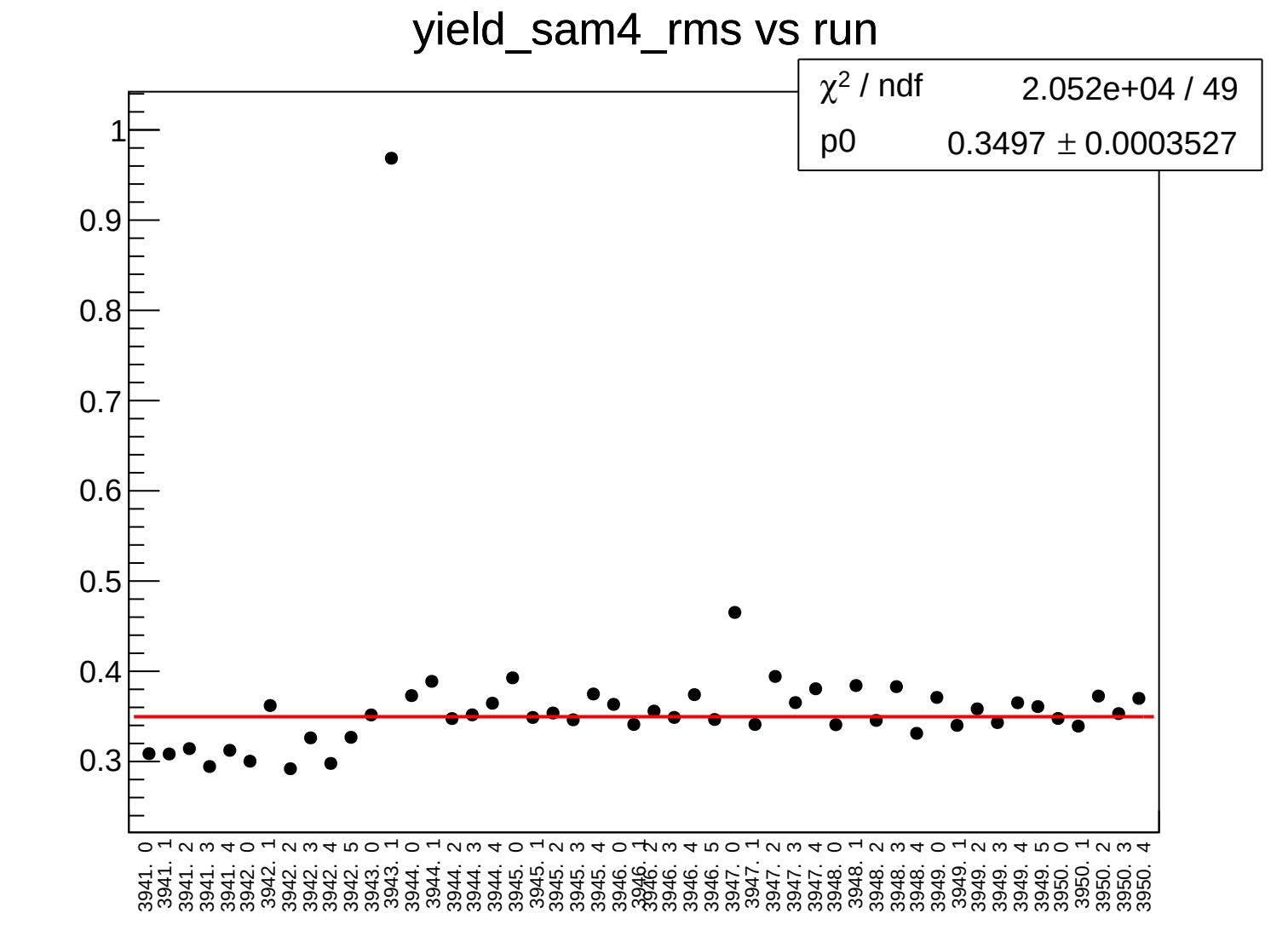

yield_sam2_rms vs run
χ² / ndf 1.785e+04 / 49
p0 0.1397 ± 0.0001408
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

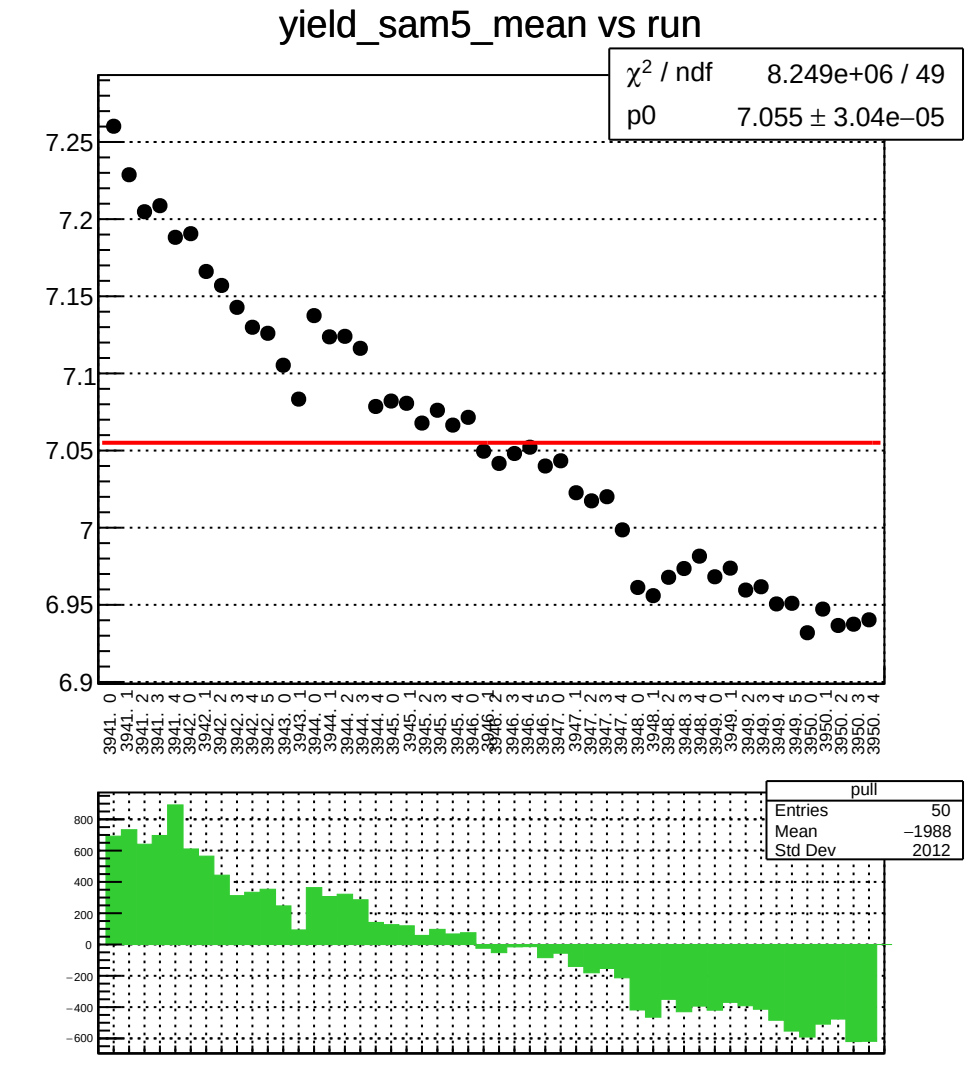

yield_sam3_mean vs run
χ² / ndf 5.359e+06 / 49
p0 27.49 ± 0.0008865
pull
Entries 50
Mean 301.7
Std Dev 280.5

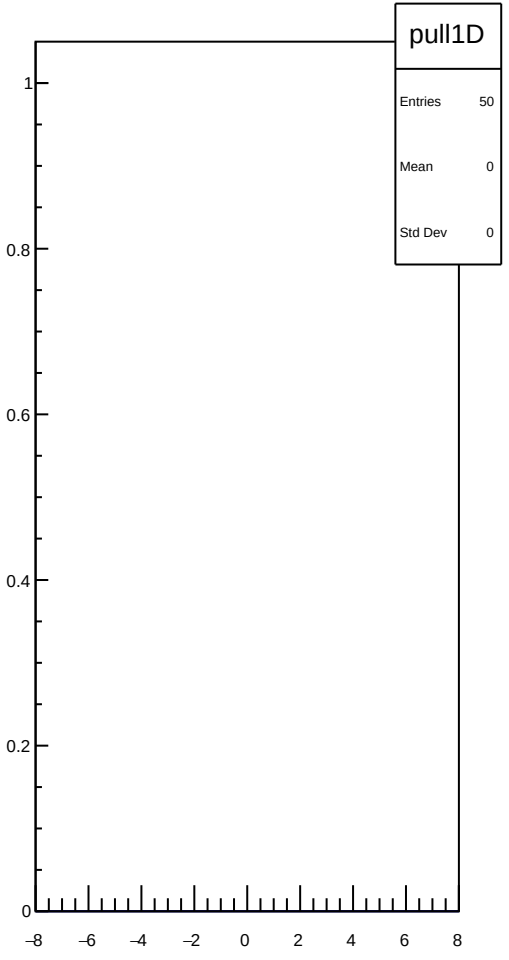

pull1D
Entries 50
Mean 0
Std Dev 0

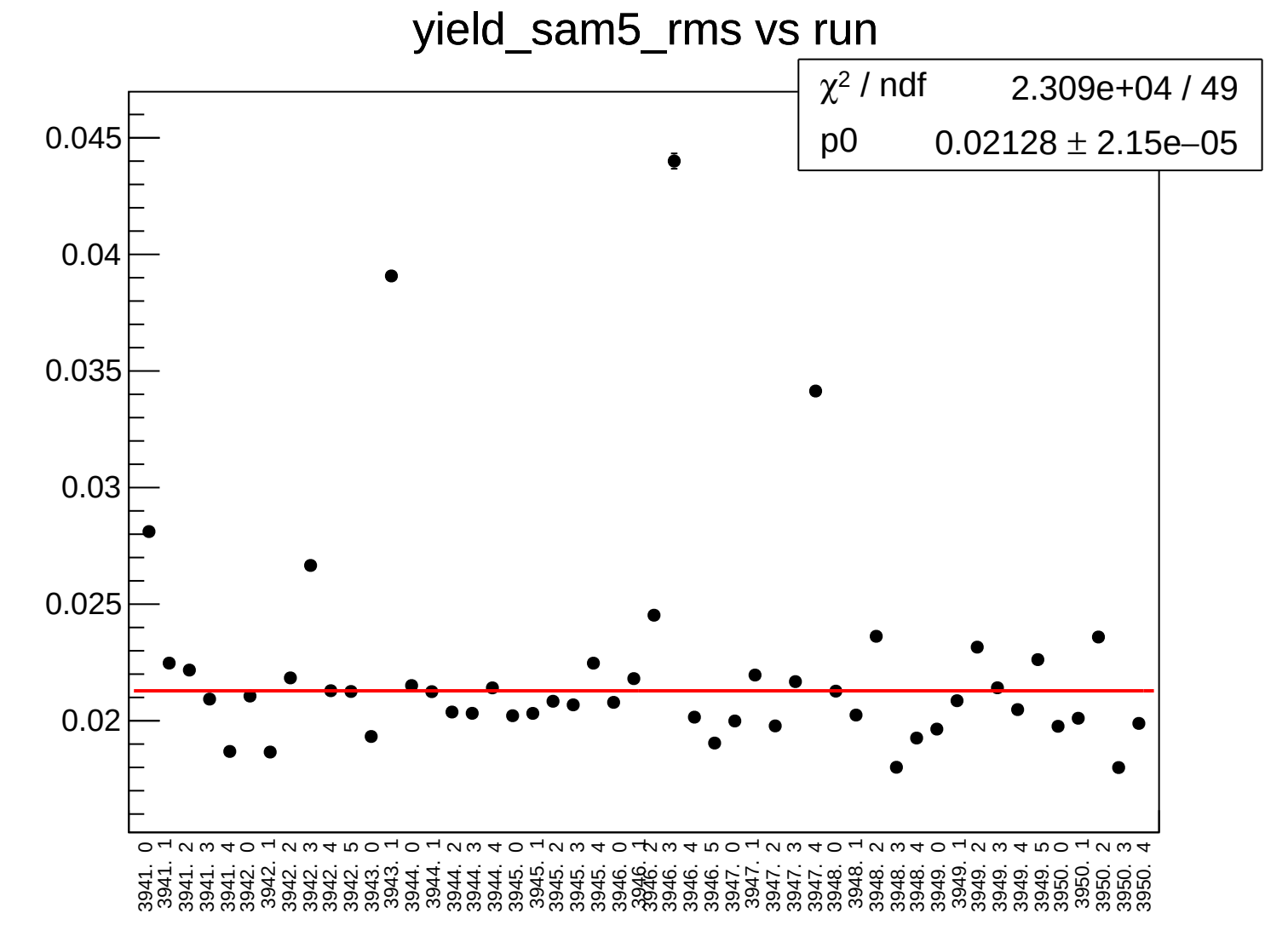

yield_sam3_rms vs run
χ² / ndf 1.796e+04 / 49
p0 0.6223 ± 0.0006268
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

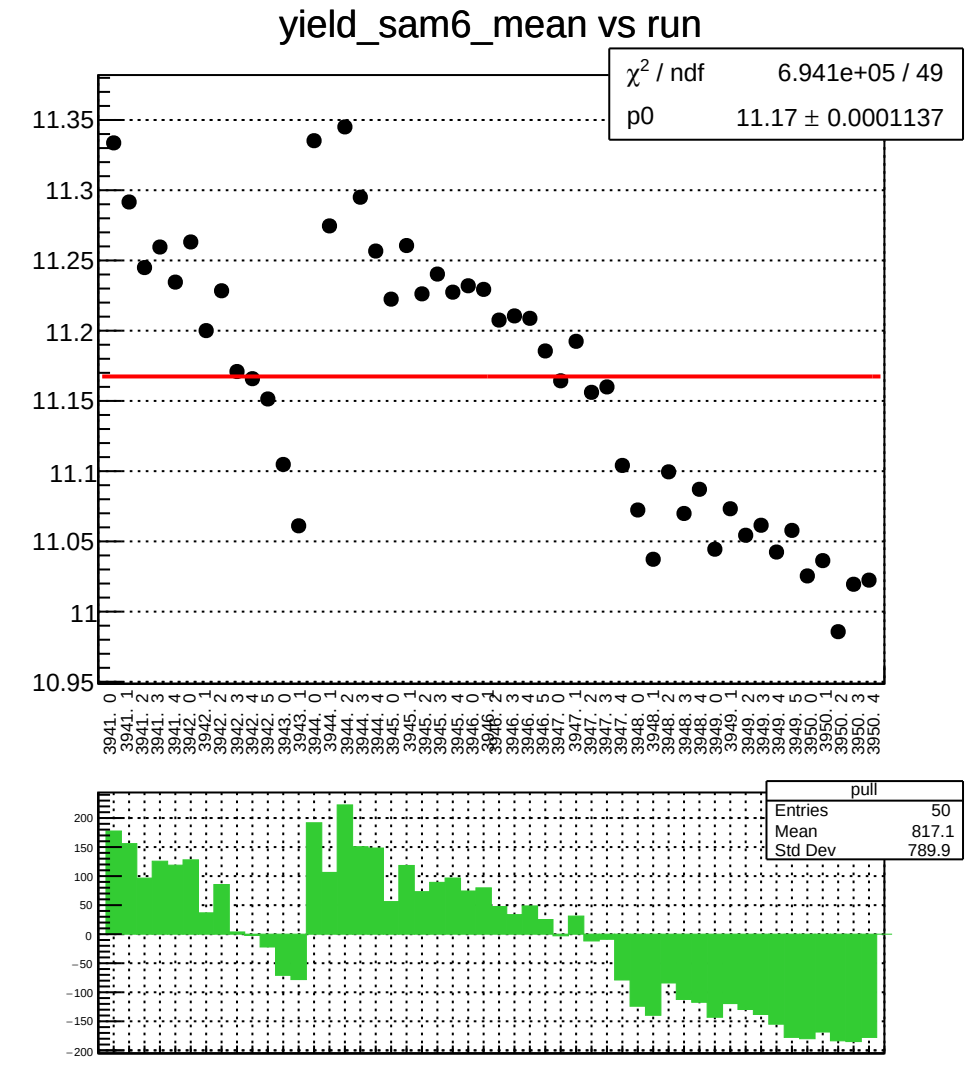

yield_sam4_mean vs run
χ² / ndf 1.579e+06 / 49
p0 25.66 ± 0.0004988
27
26.5
26
25.5
25
pull
Entries 50
Mean 315.5
Std Dev 293.4
400
300
200
100
0
−100
−200
pull1D
Entries 50
Mean 3.161
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

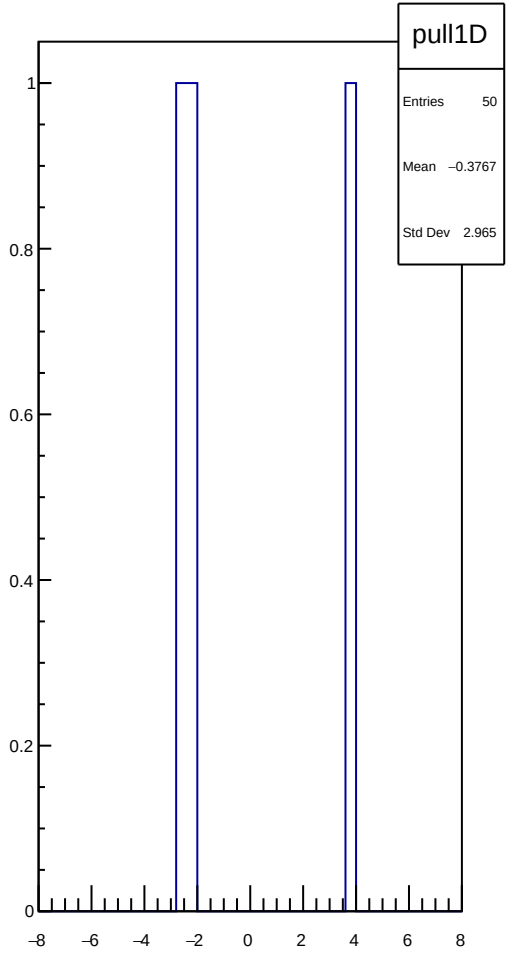

yield_sam4_rms vs run
χ² / ndf 2.052e+04 / 49
p0 0.3497 ± 0.0003527
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

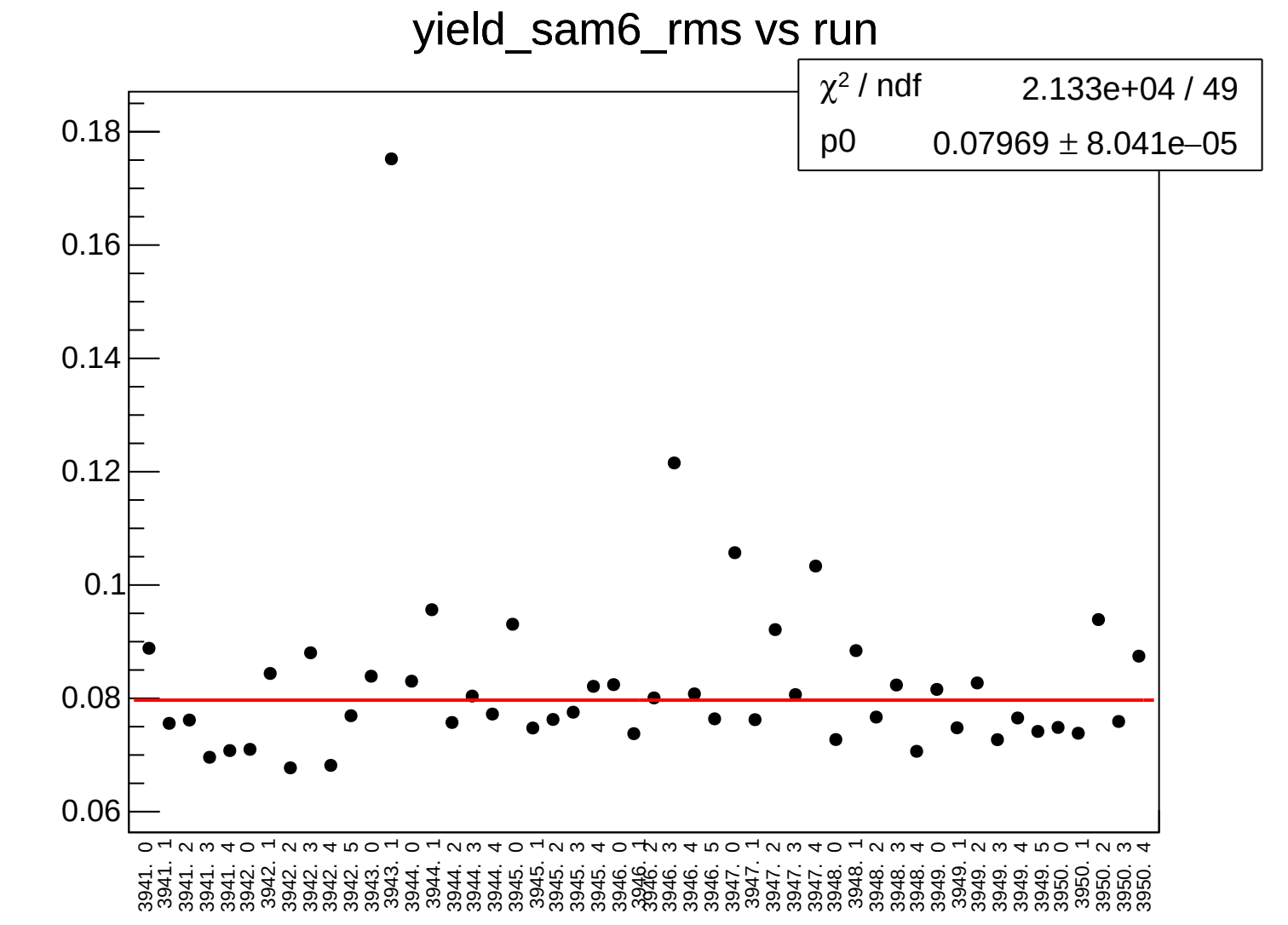

yield_sam5_mean vs run
χ² / ndf 8.249e+06 / 49
p0 7.055 ± 3.04e−05
7.25
7.2
7.15
7.1
7.05
7
6.95
6.9
pull
Entries 50
Mean −1988
Std Dev 2012
800
600
400
200
0
−200
−400
−600

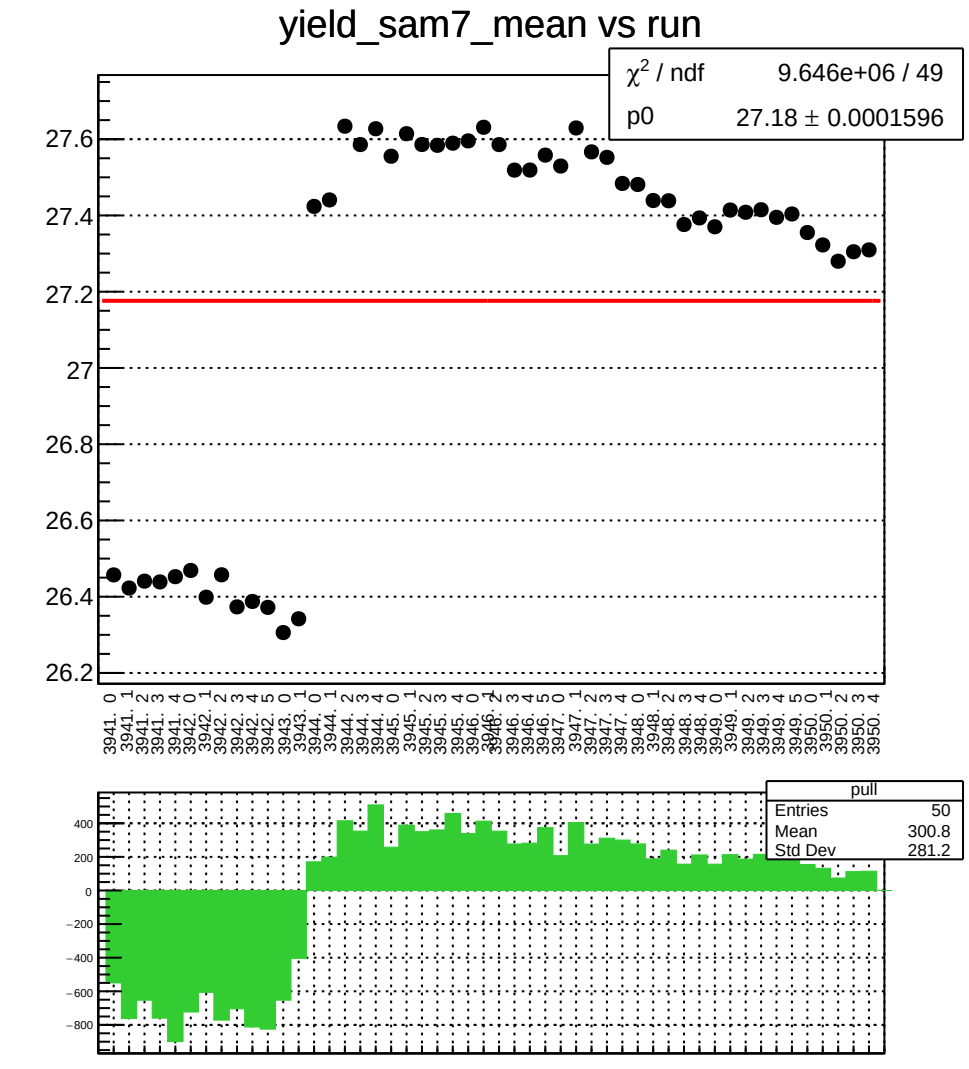

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

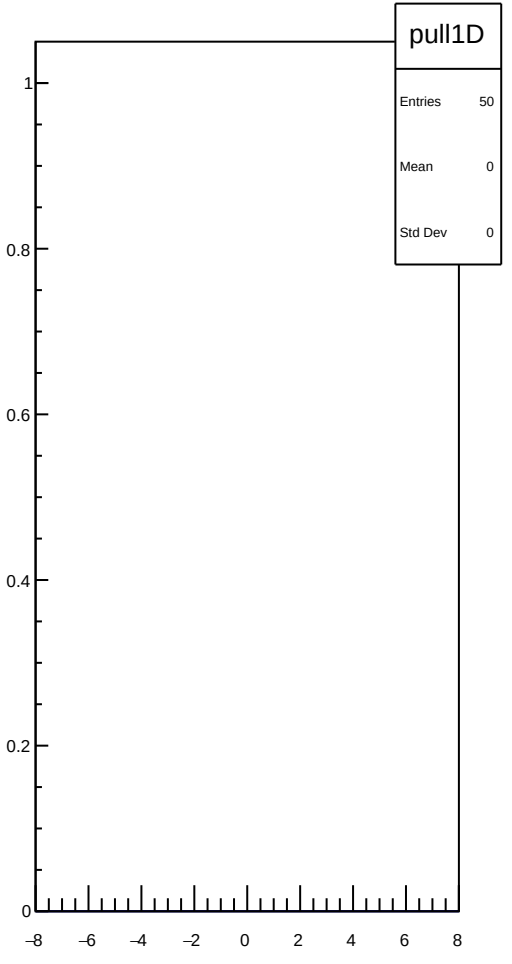

yield_sam5_rms vs run
χ² / ndf 2.309e+04 / 49
p0 0.02128 ± 2.15e−05
0.045
0.04
0.035
0.03
0.025
0.02
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

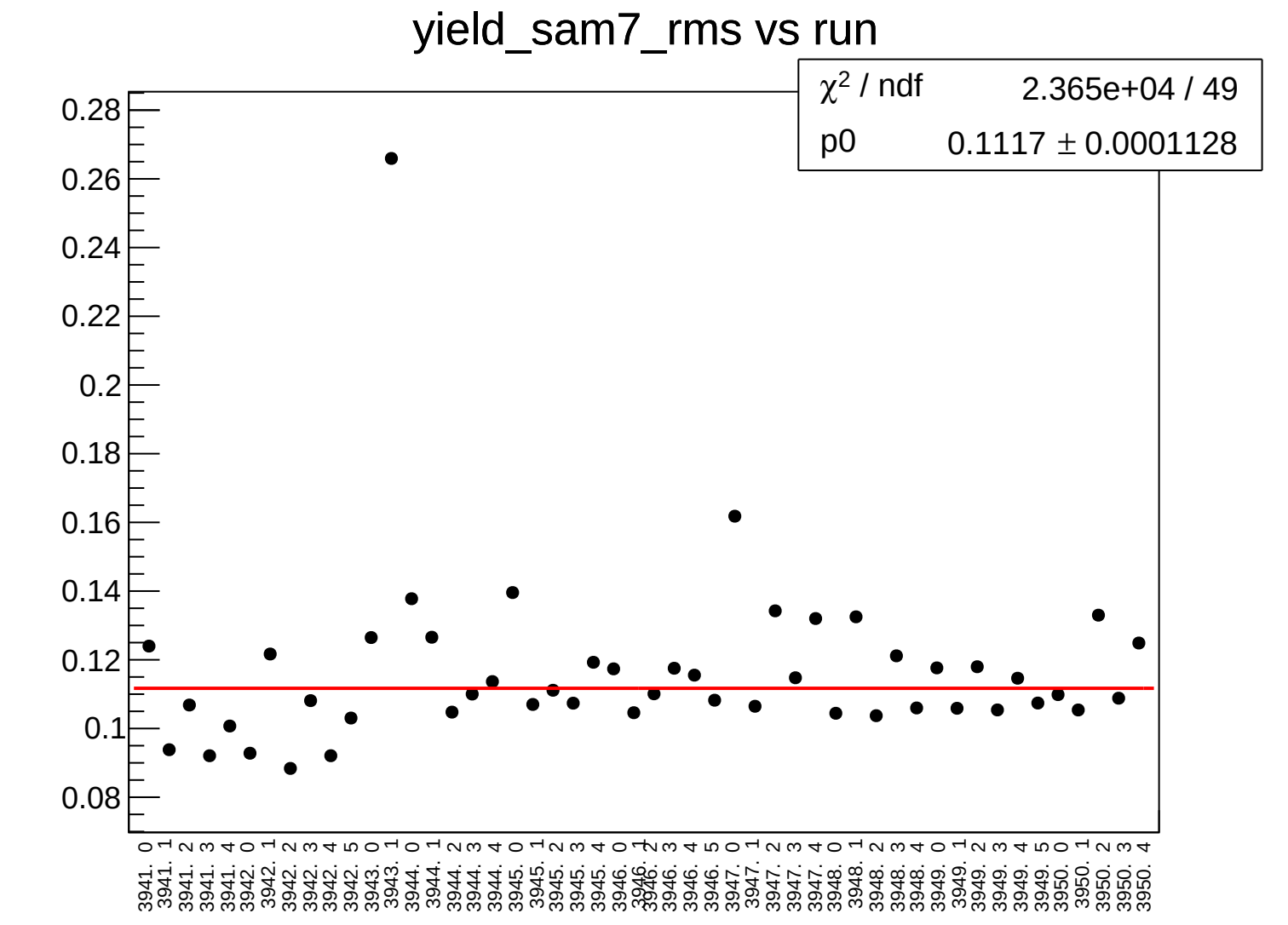

yield_sam6_mean vs run
χ² / ndf 6.941e+05 / 49
p0 11.17 ± 0.0001137
pull
Entries 50
Mean 817.1
Std Dev 789.9

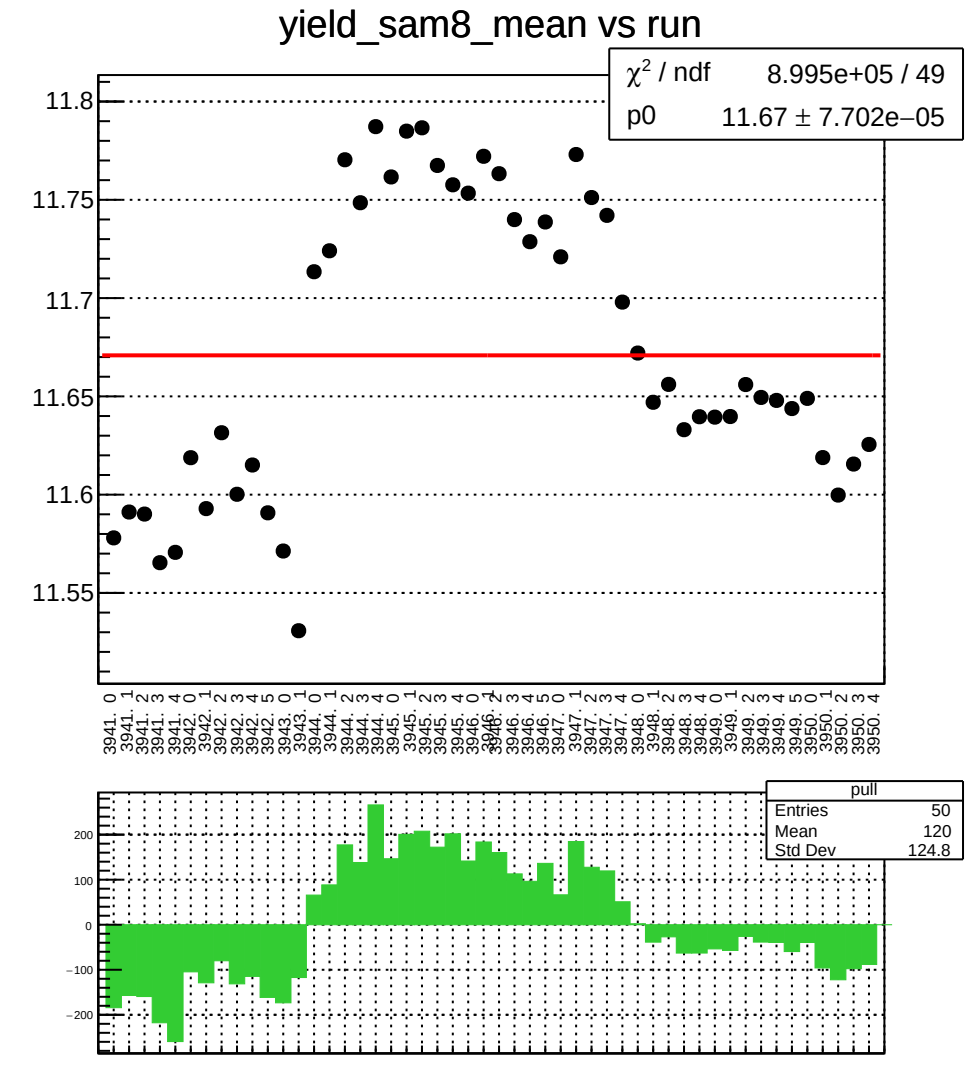

pull1D
Entries 50
Mean −0.3767
Std Dev 2.965

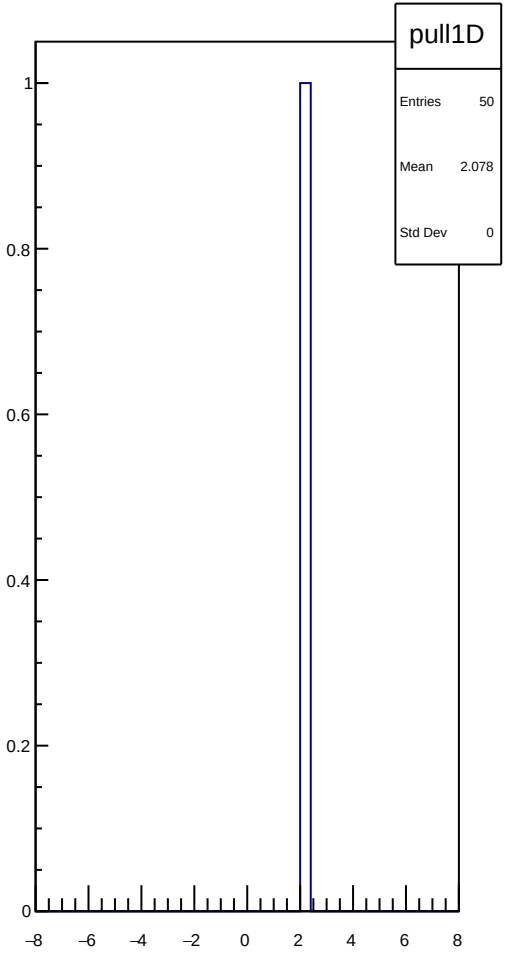

yield_sam6_rms vs run
χ² / ndf 2.133e+04 / 49
p0 0.07969 ± 8.041e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

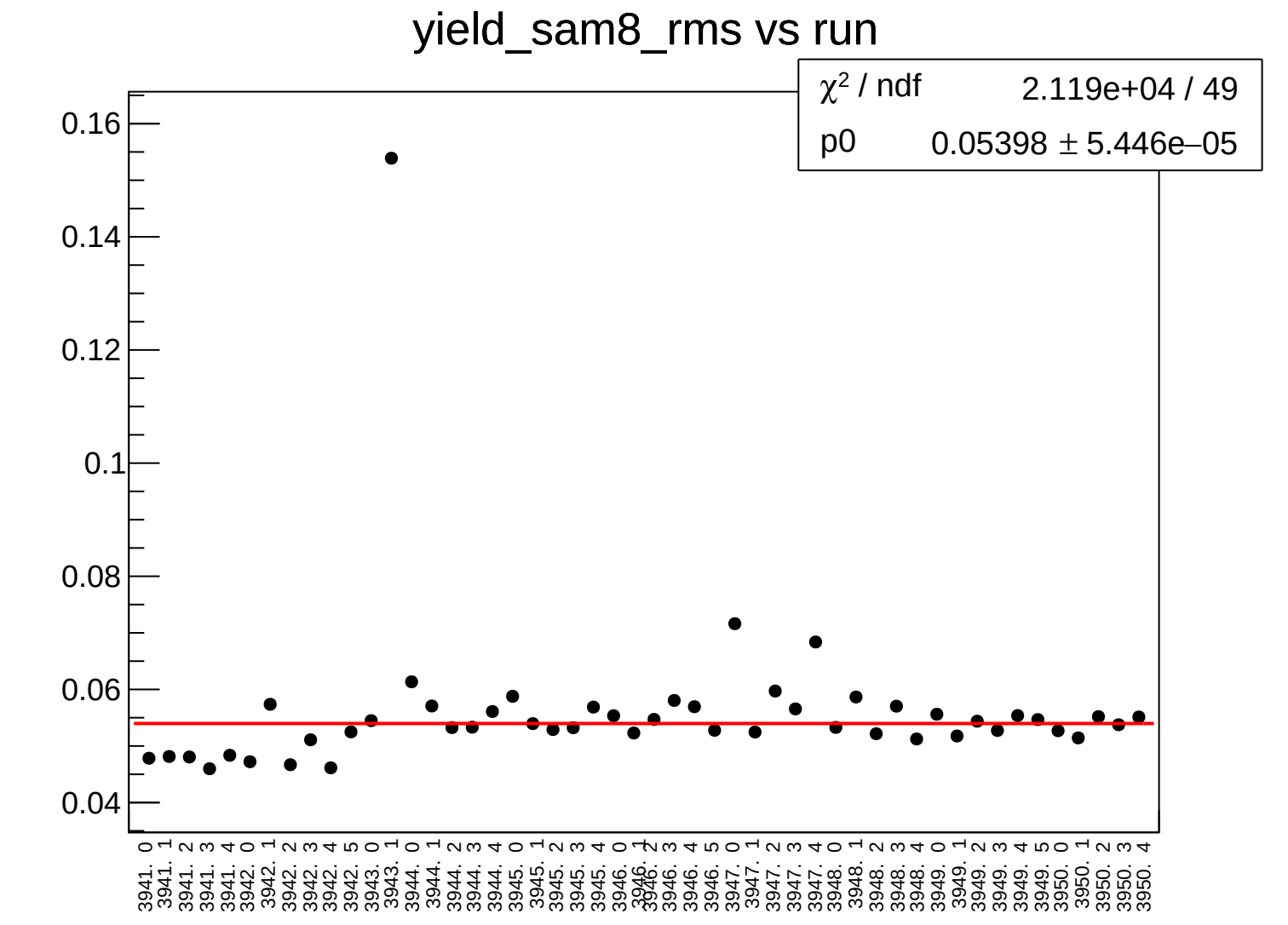

yield_sam7_mean vs run
χ² / ndf 9.646e+06 / 49
p0 27.18 ± 0.0001596
27.6
27.4
27.2
27
26.8
26.6
26.4
26.2
pull
Entries 50
Mean 300.8
Std Dev 281.2
400
200
0
−200
−400
−600
−800

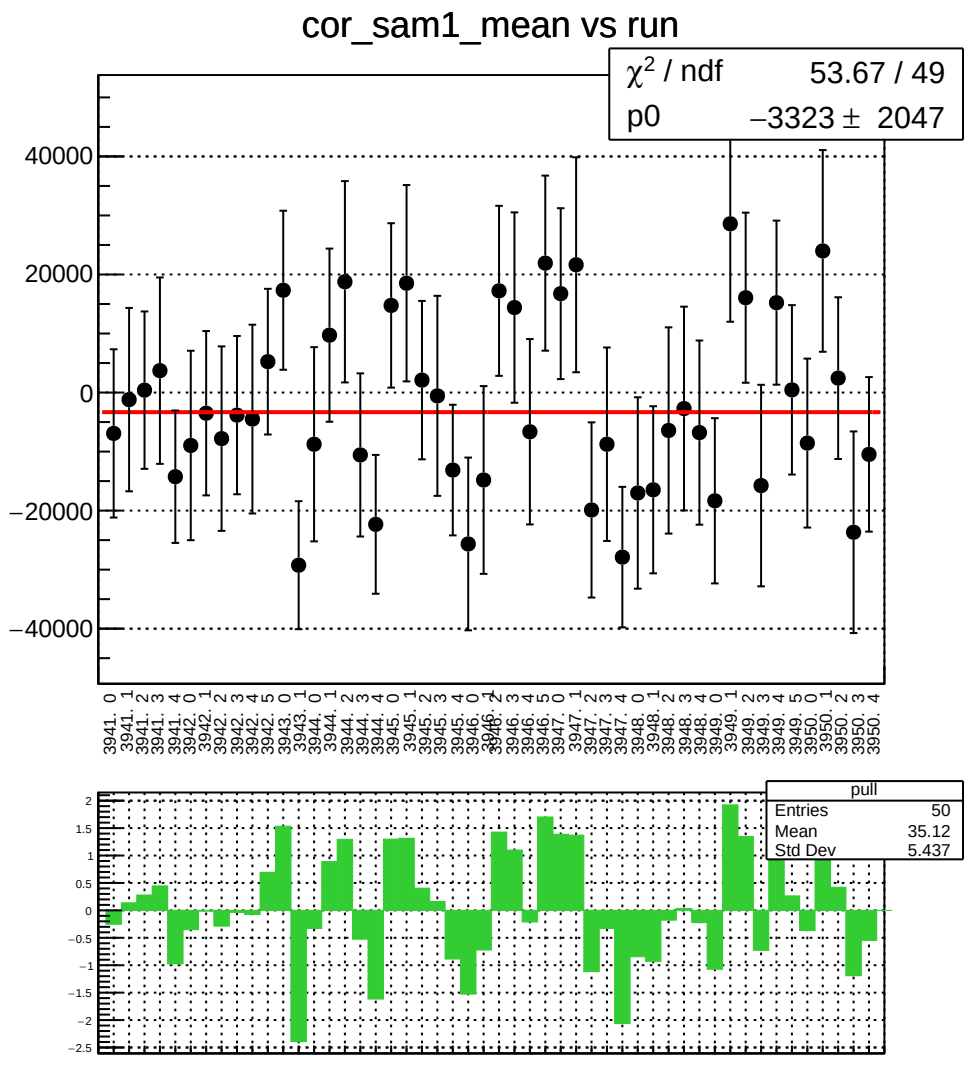

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

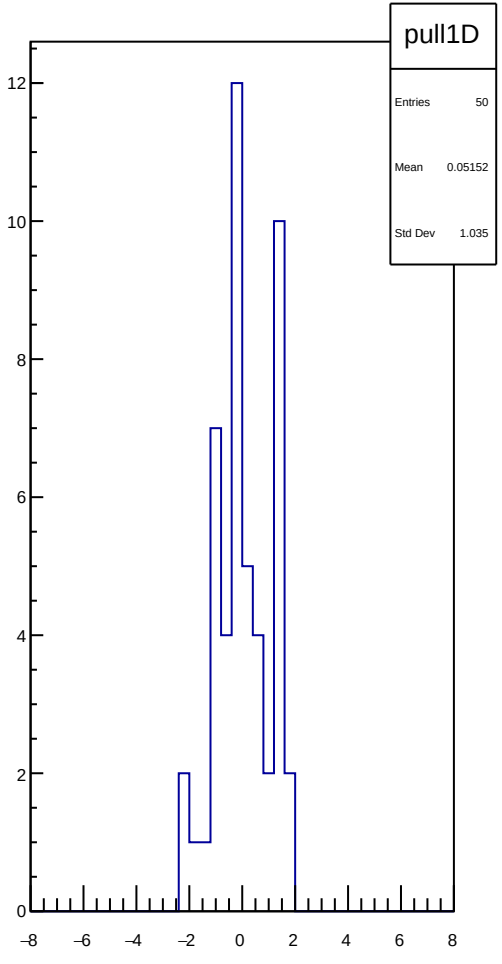

yield_sam7_rms vs run
χ² / ndf 2.365e+04 / 49
p0 0.1117 ± 0.0001128
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

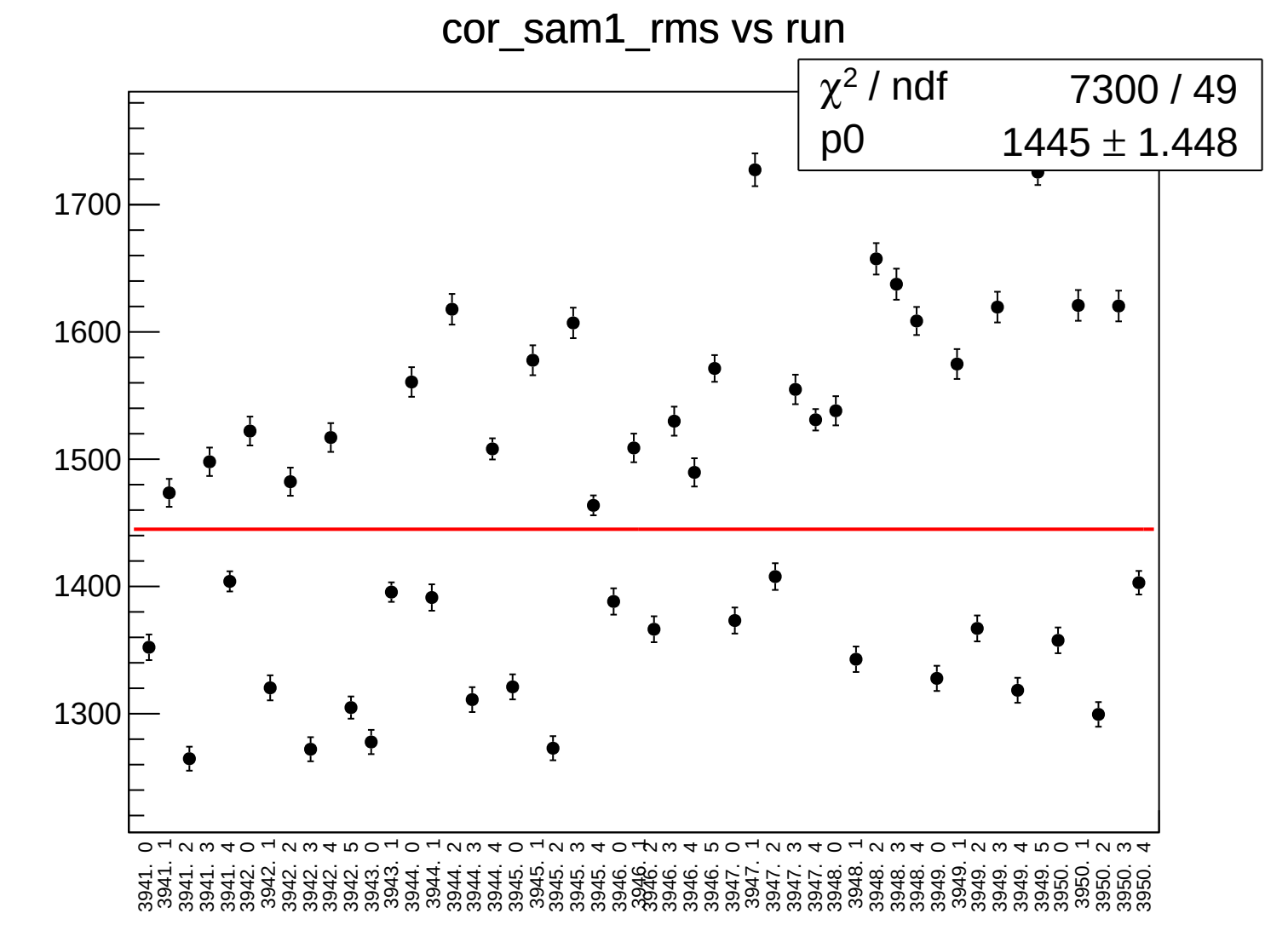

yield_sam8_mean vs run
χ² / ndf 8.995e+05 / 49
p0 11.67 ± 7.702e−05
11.8
11.75
11.7
11.65
11.6
11.55
pull
Entries 50
Mean 120
Std Dev 124.8
200
100
0
−100
−200

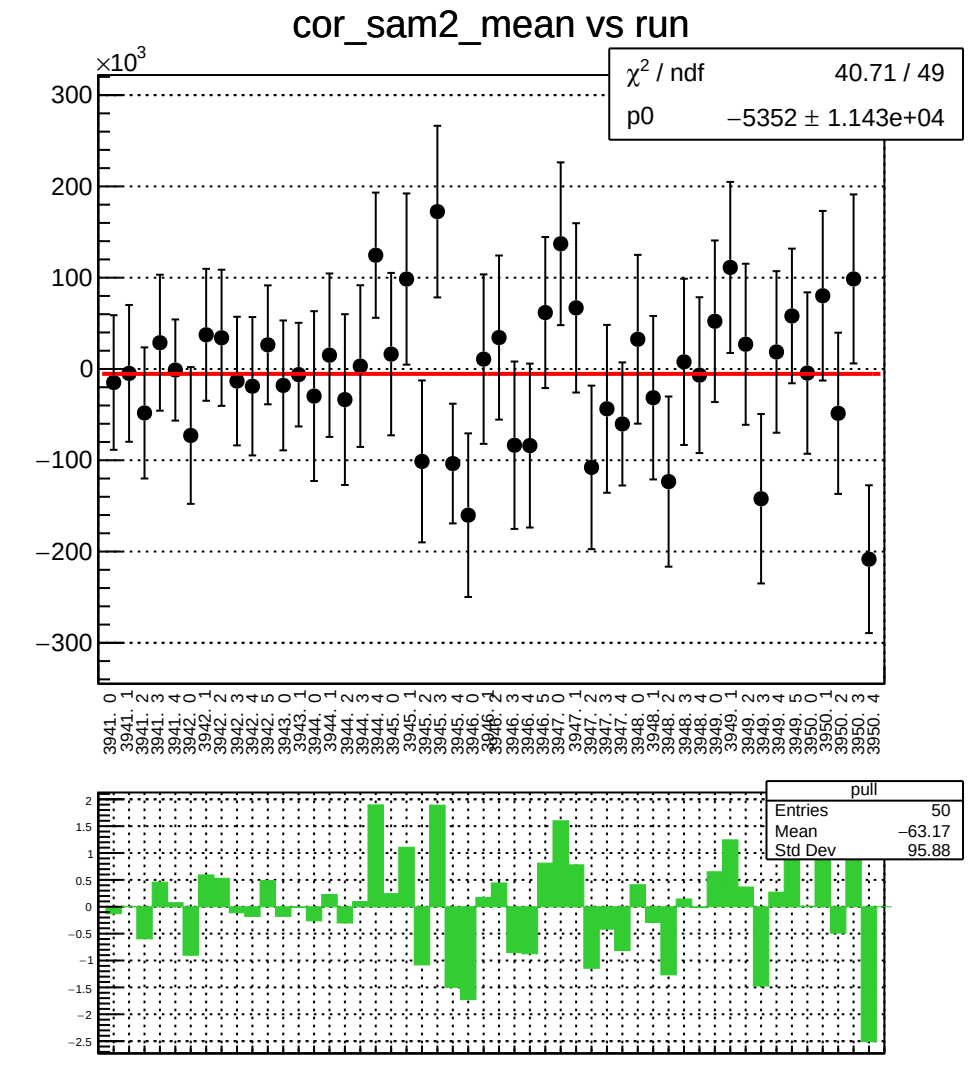

pull1D
Entries 50
Mean 2.078
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

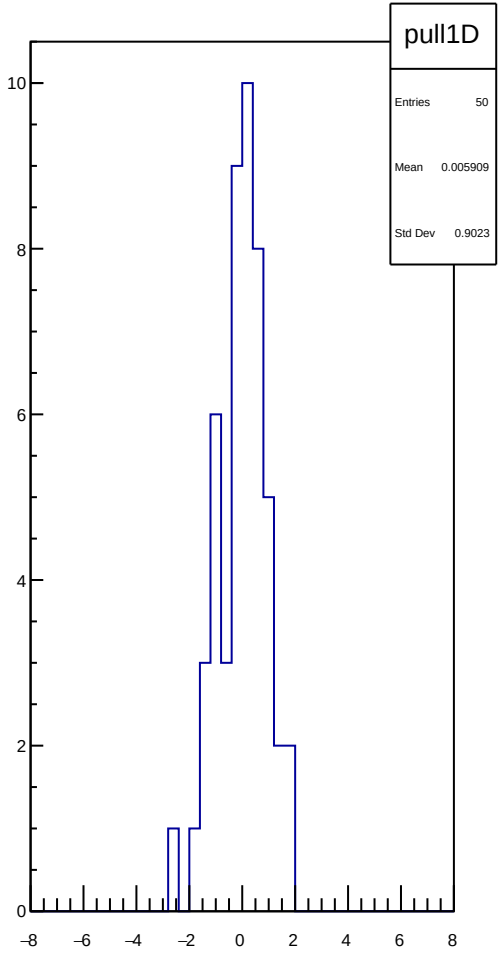

yield_sam8_rms vs run
χ² / ndf 2.119e+04 / 49
p0 0.05398 ± 5.446e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

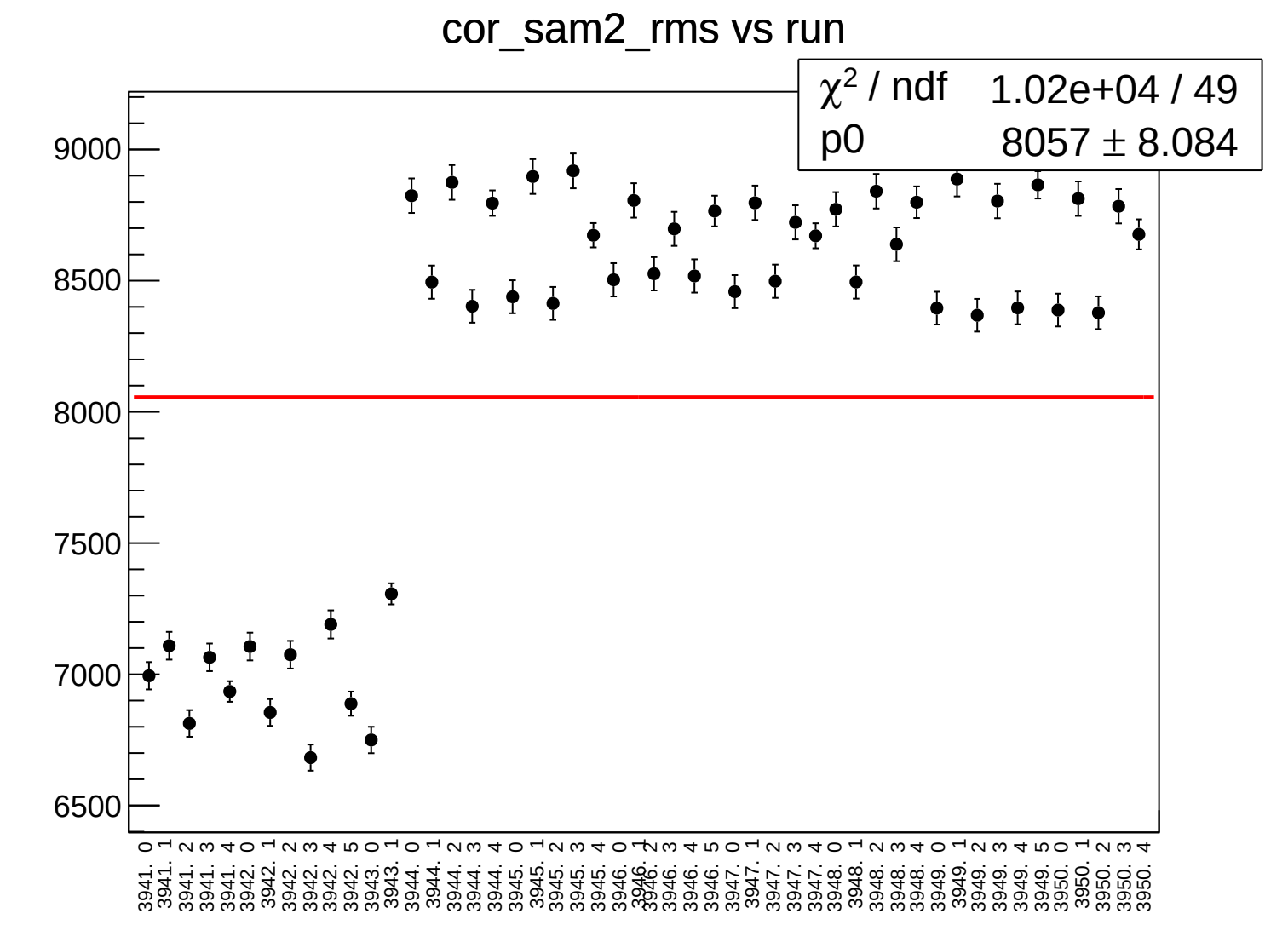

cor_sam1_mean vs run
χ² / ndf 53.67 / 49
p0 −3323 ± 2047
40000
20000
0
−20000
−40000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 35.12
Std Dev 5.437
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

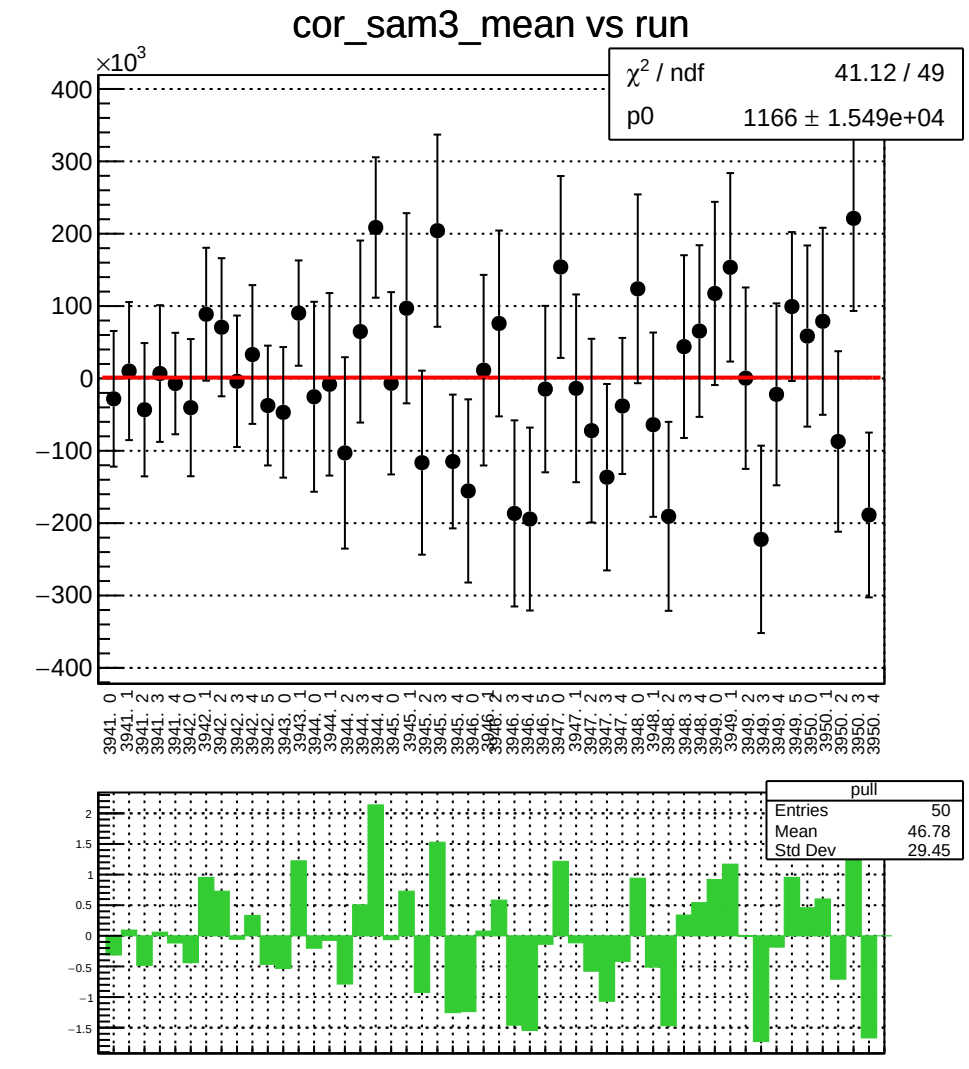

pull1D
Entries 50
Mean 0.05152
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

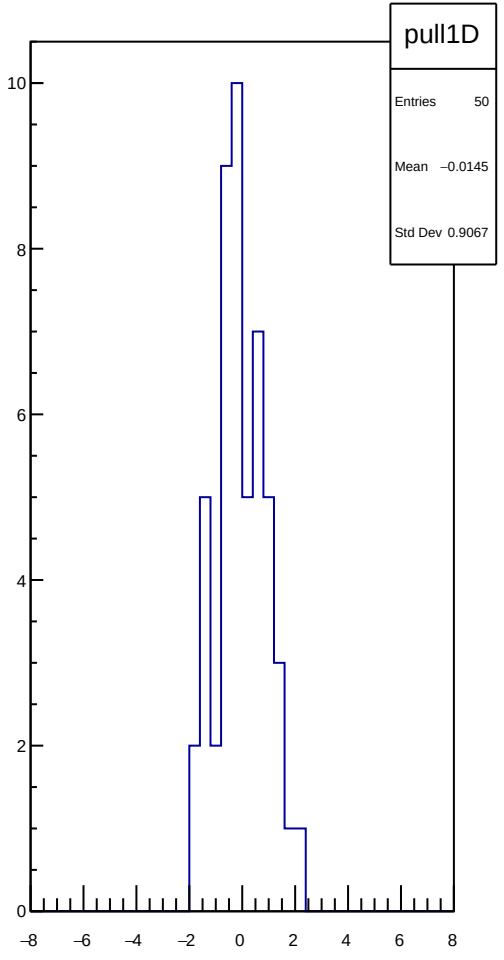

cor_sam1_rms vs run
χ² / ndf 7300 / 49
p0 1445 ± 1.448
1700
1600
1500
1400
1300
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

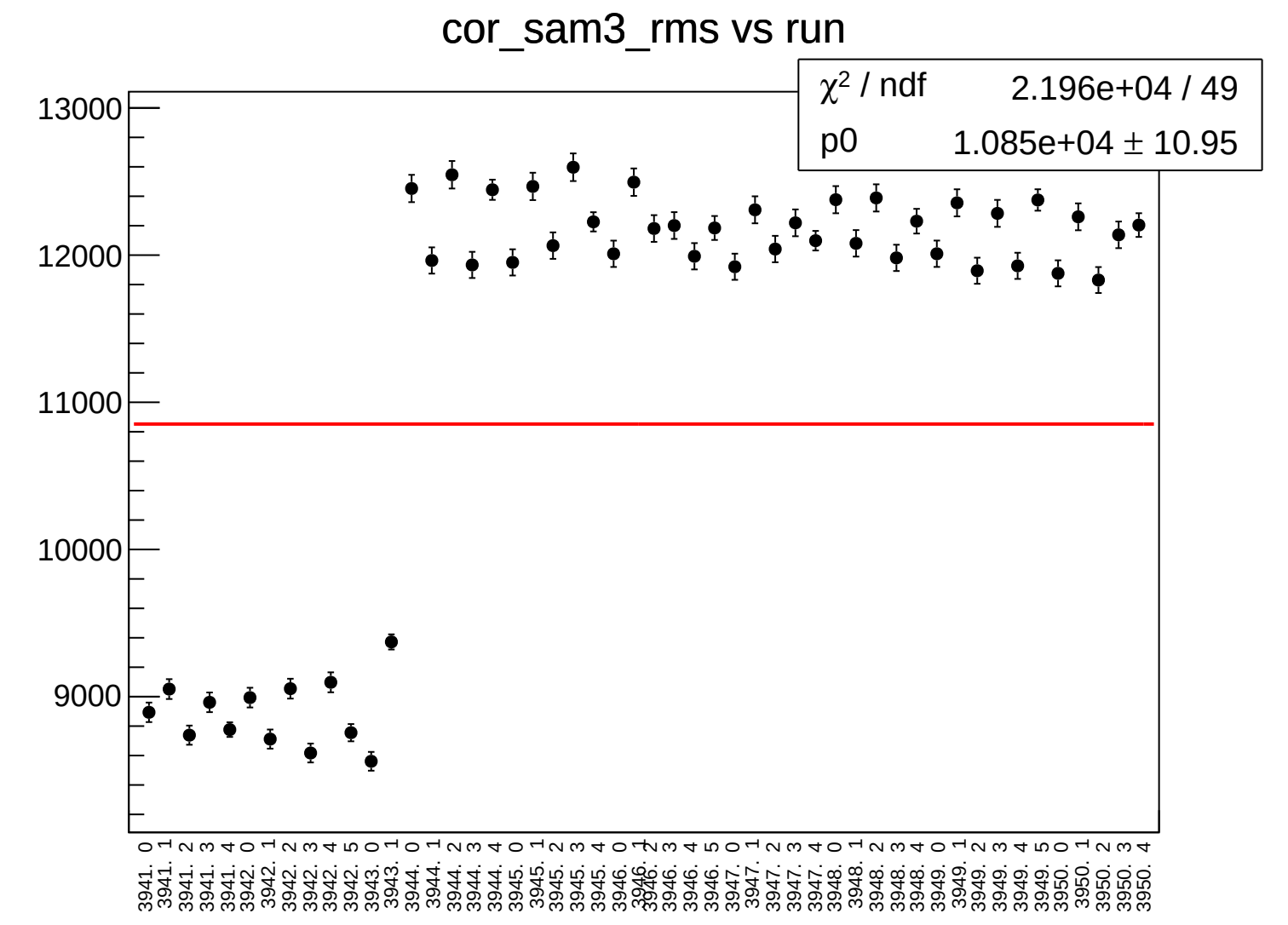

cor_sam2_mean vs run
×10^3
χ² / ndf 40.71 / 49
p0 −5352 ± 1.143e+04
pull
Entries 50
Mean −63.17
Std Dev 95.88

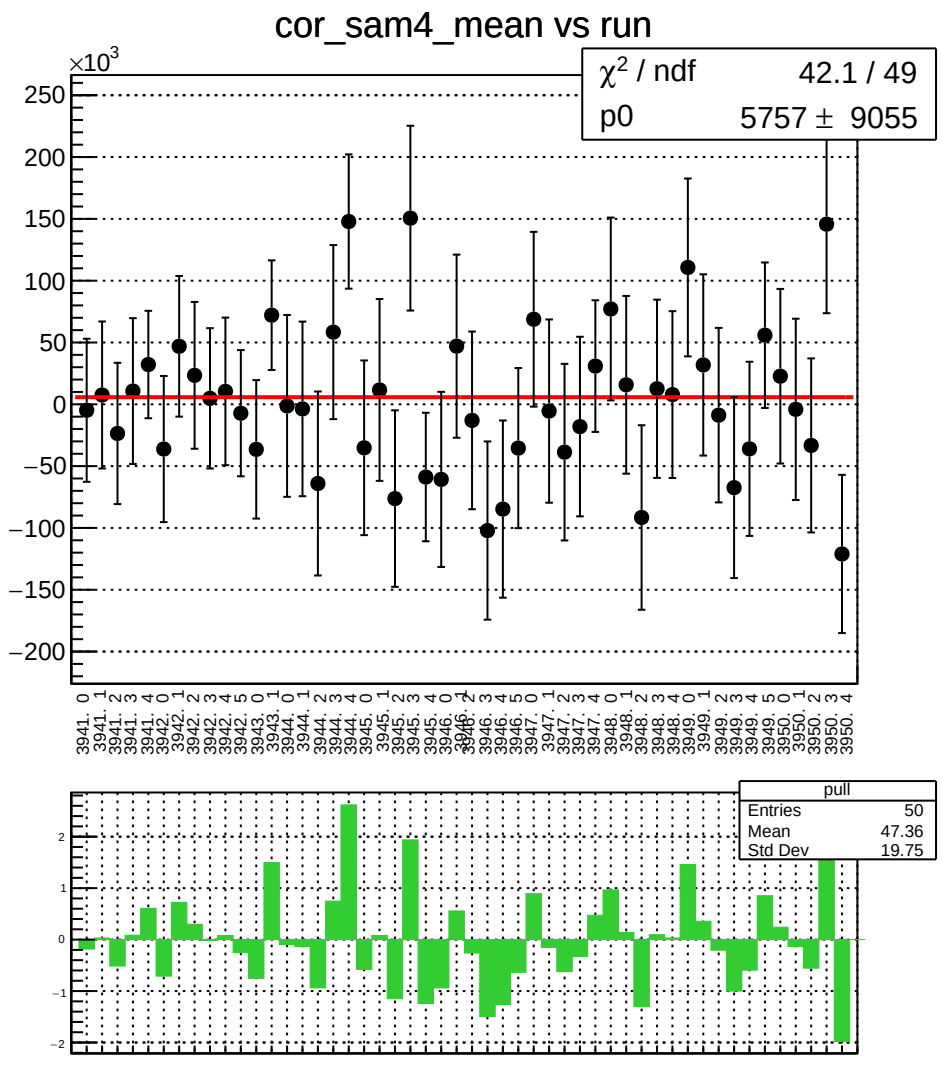

pull1D
Entries 50
Mean 0.005909
Std Dev 0.9023

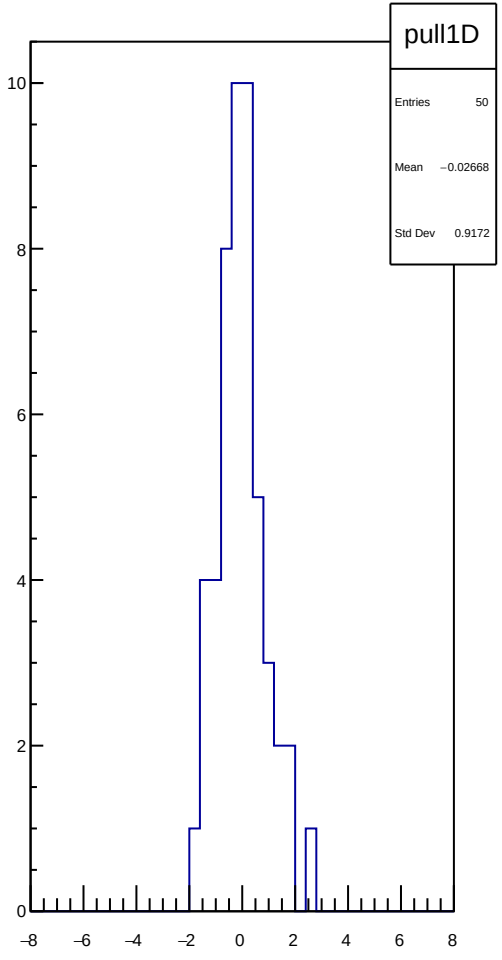

cor_sam2_rms vs run
χ² / ndf 1.02e+04 / 49
p0 8057 ± 8.084
9000
8500
8000
7500
7000
6500
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

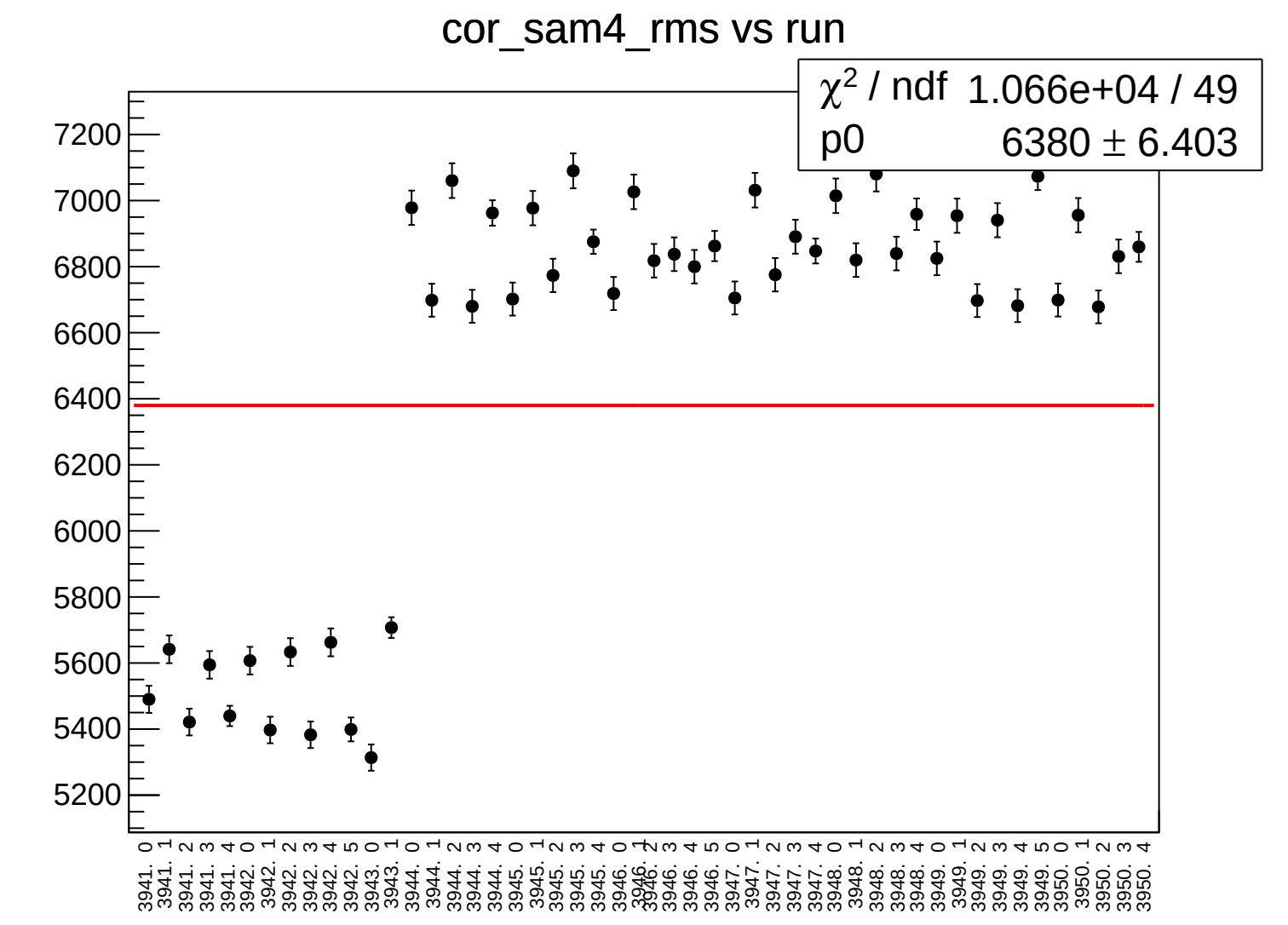

cor_sam3_mean vs run
×10^3
χ² / ndf 41.12 / 49
p0 1166 ± 1.549e+04
pull
Entries 50
Mean 46.78
Std Dev 29.45

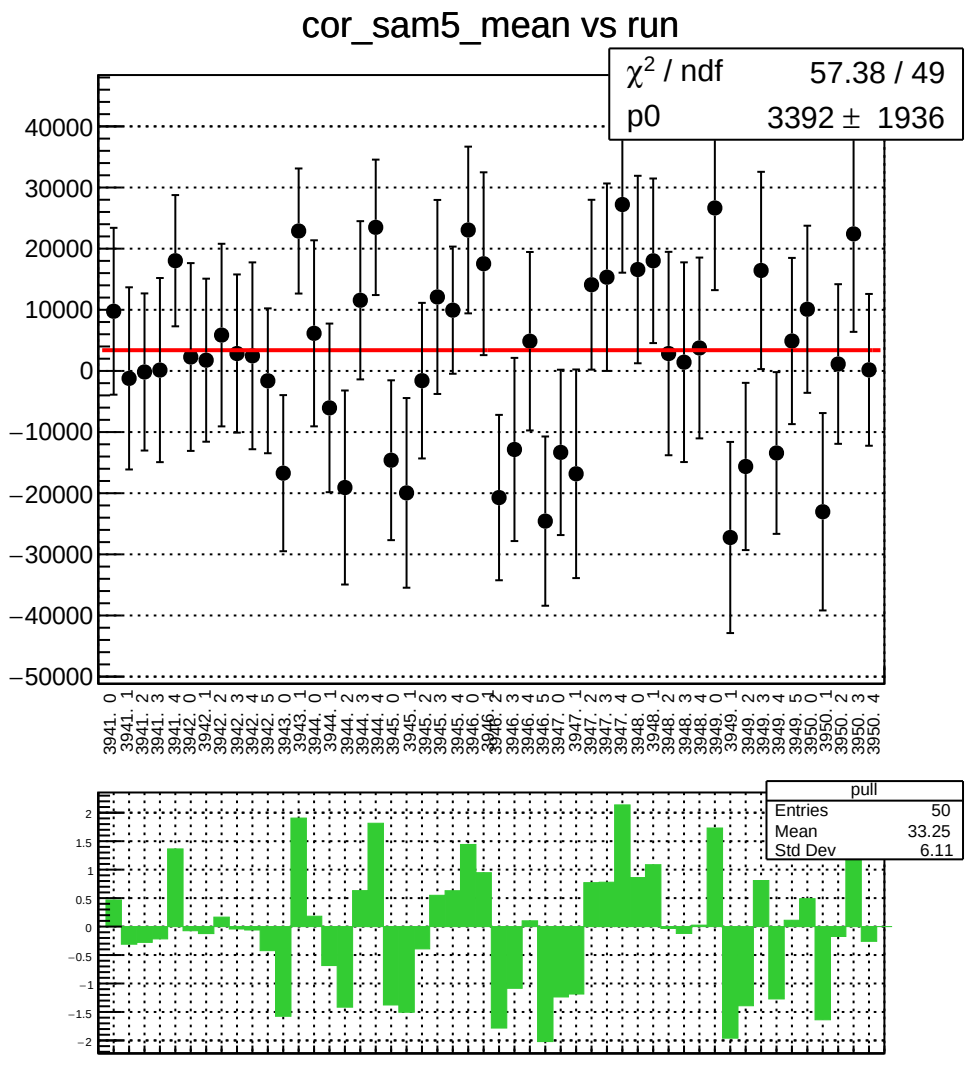

pull1D
Entries 50
Mean −0.0145
Std Dev 0.9067

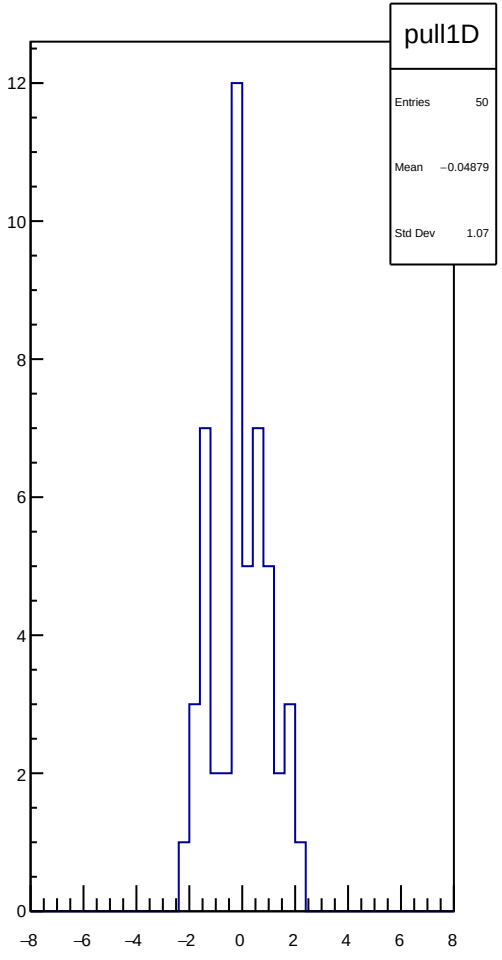

cor_sam3_rms vs run
χ² / ndf 2.196e+04 / 49
p0 1.085e+04 ± 10.95
13000
12000
11000
10000
9000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

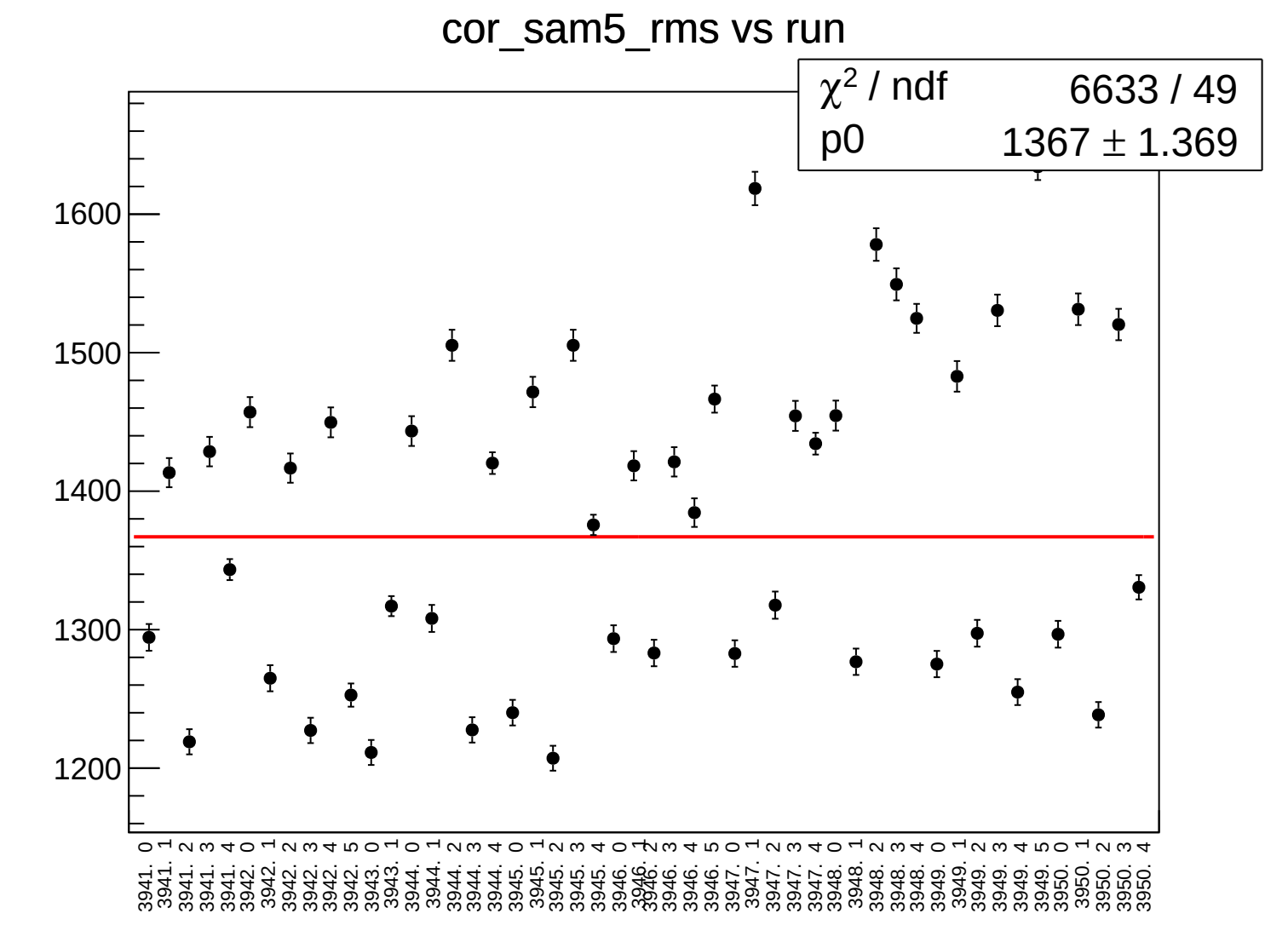

cor_sam4_mean vs run
×10^3
χ^2 / ndf 42.1 / 49
p0 5757 ± 9055
250
200
150
100
50
0
−50
−100
−150
−200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 47.36
Std Dev 19.75
2
1
0
−1
−2

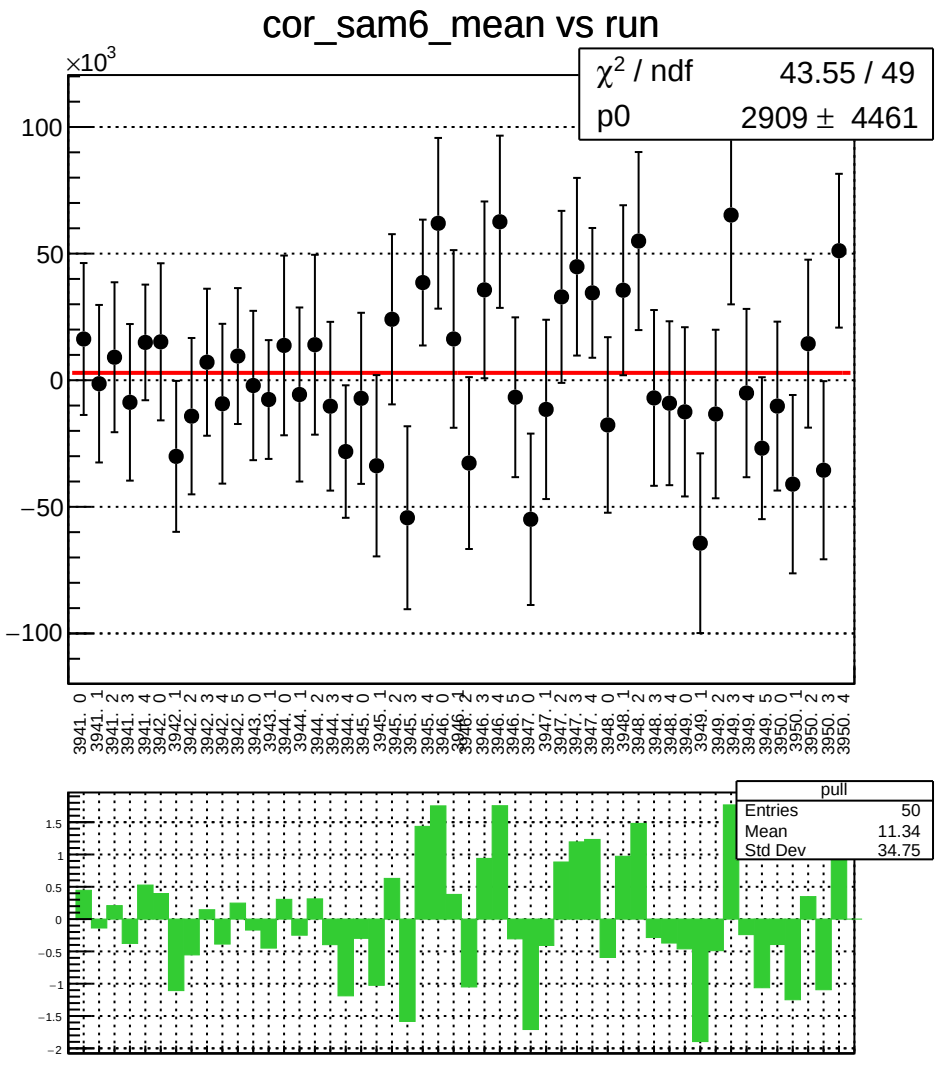

pull1D
Entries 50
Mean −0.02668
Std Dev 0.9172
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

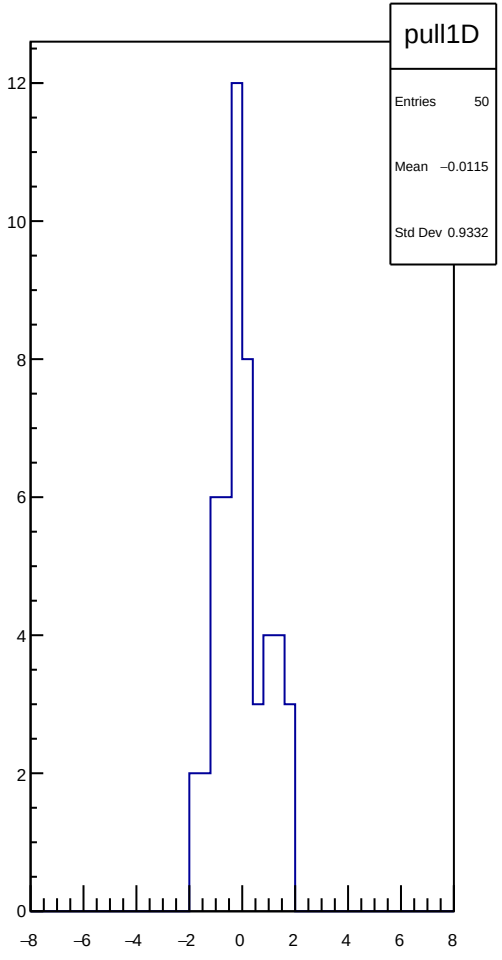

cor_sam4_rms vs run
$\chi^2$ / ndf 1.066e+04 / 49
p0 6380 ± 6.403
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

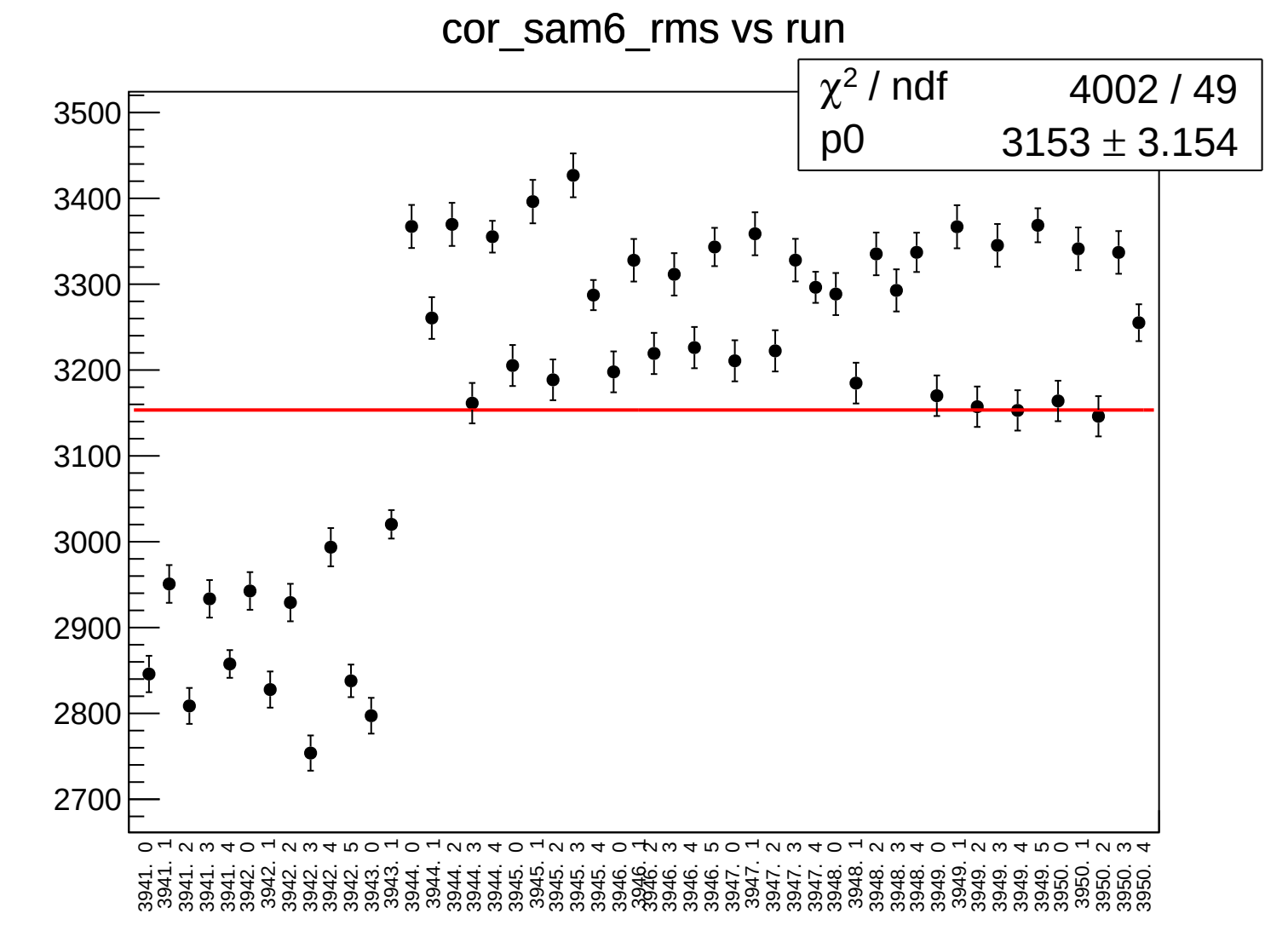

cor_sam5_mean vs run
χ² / ndf 57.38 / 49
p0 3392 ± 1936
pull
Entries 50
Mean 33.25
Std Dev 6.11

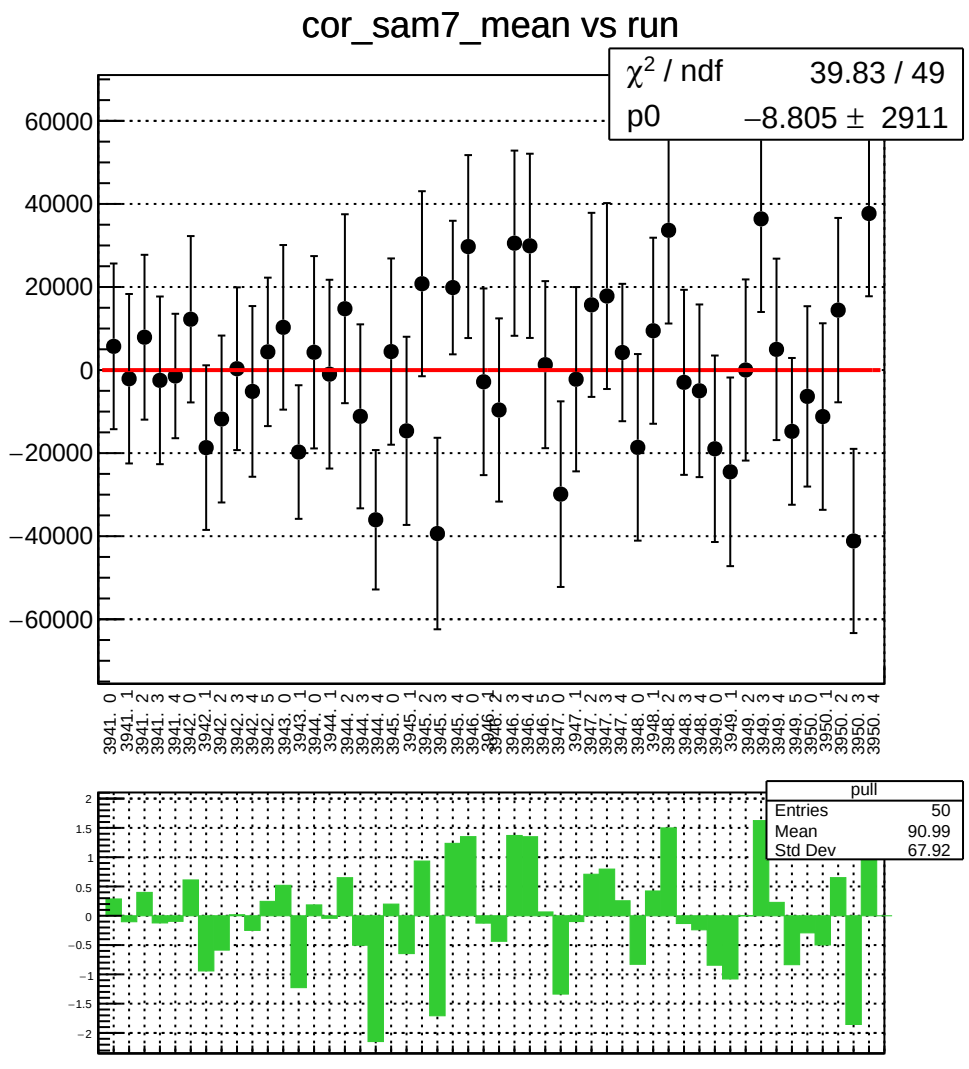

pull1D
Entries 50
Mean −0.04879
Std Dev 1.07

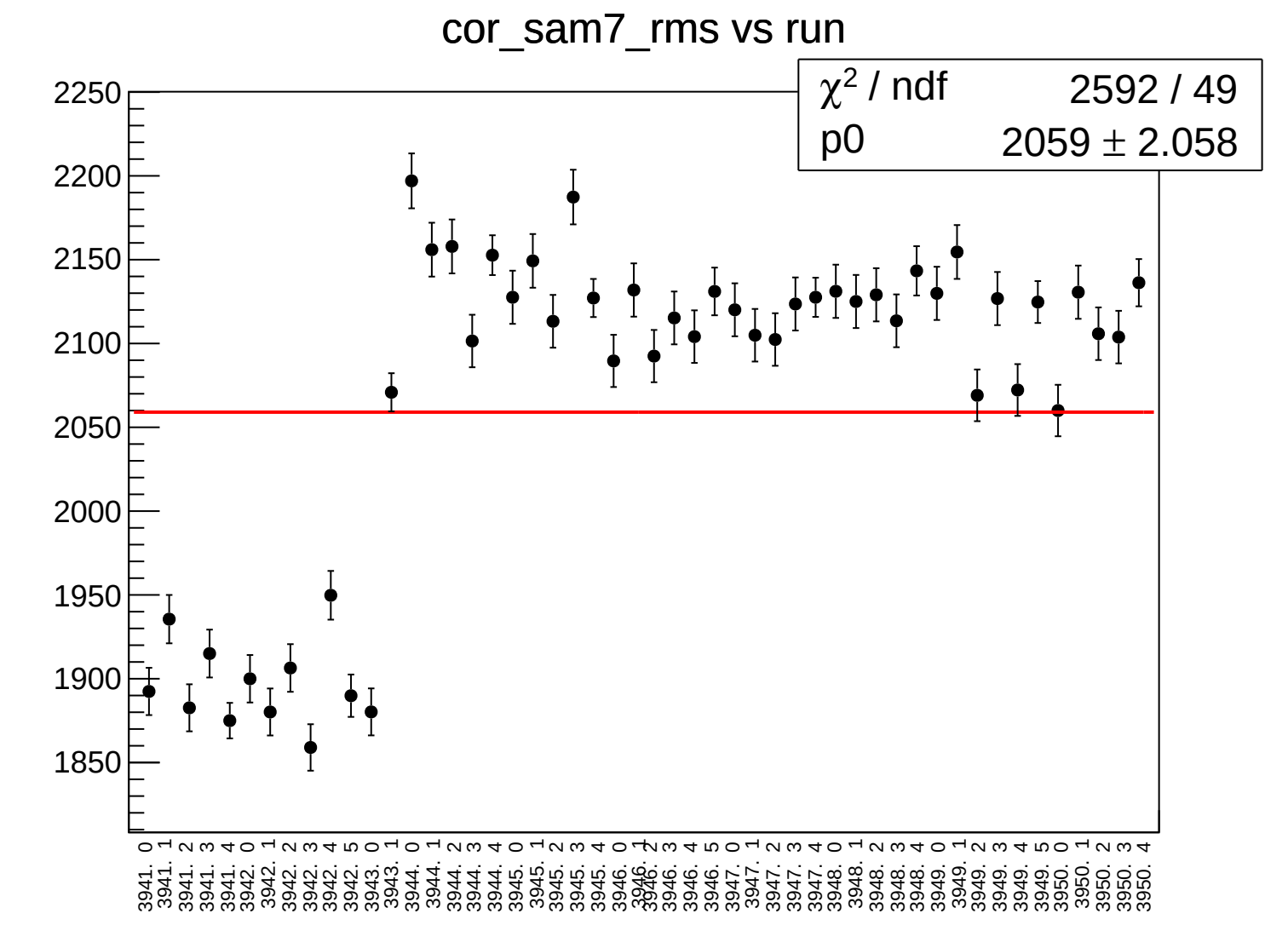

cor_sam5_rms vs run
χ² / ndf 6633 / 49
p0 1367 ± 1.369
1600
1500
1400
1300
1200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

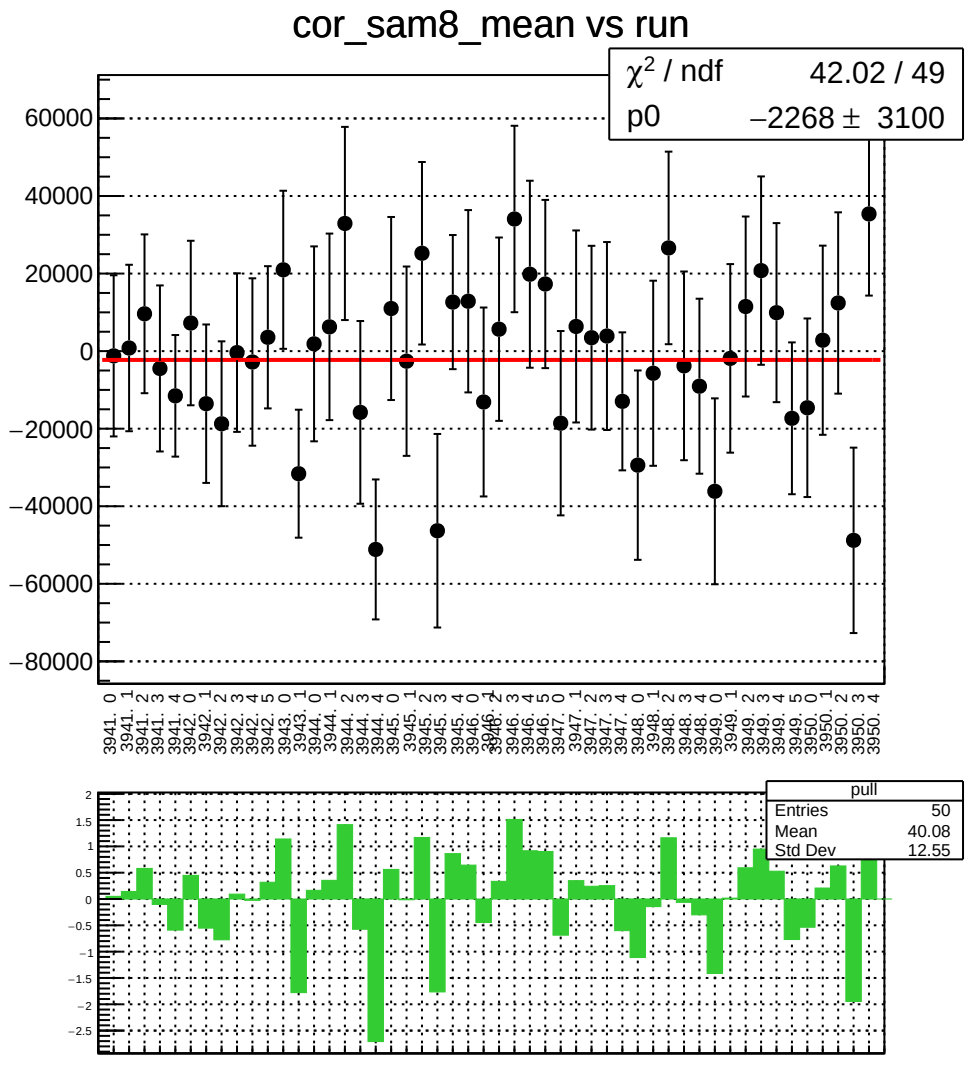

cor_sam6_mean vs run
×10^3
χ^2 / ndf 43.55 / 49
p0 2909 ± 4461
100
50
0
−50
−100
pull
Entries 50
Mean 11.34
Std Dev 34.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2

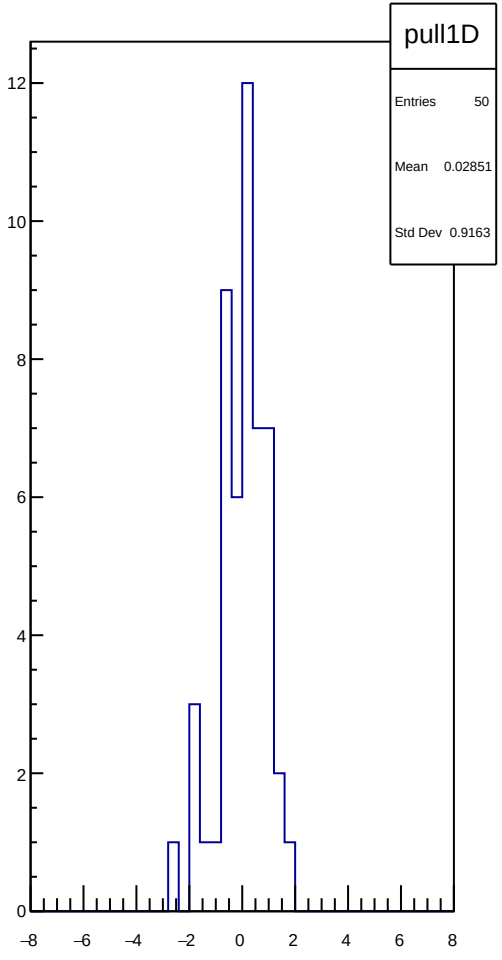

pull1D
Entries 50
Mean −0.0115
Std Dev 0.9332
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

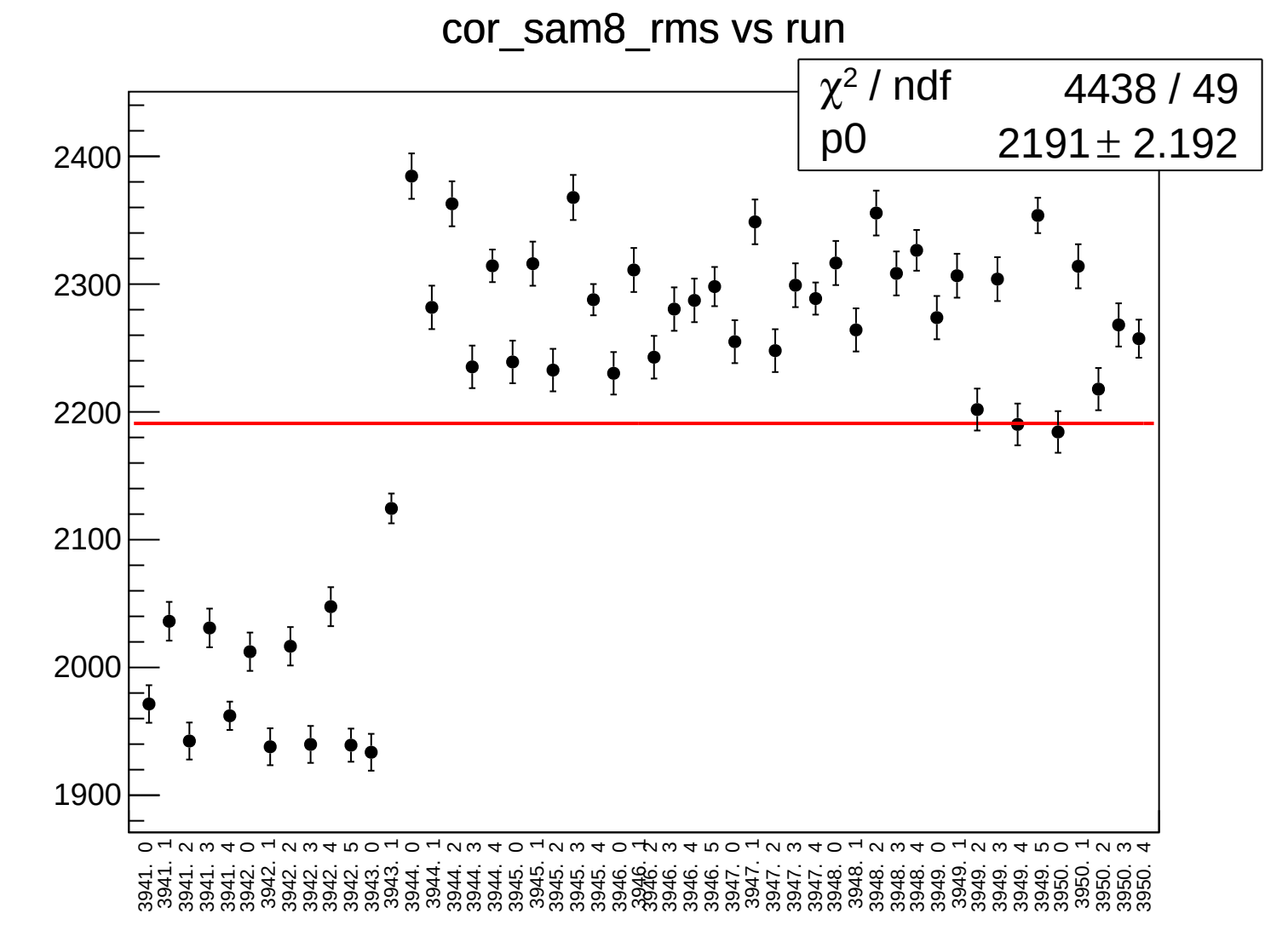

cor_sam6_rms vs run
χ² / ndf 4002 / 49
p0 3153 ± 3.154
3500
3400
3300
3200
3100
3000
2900
2800
2700
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

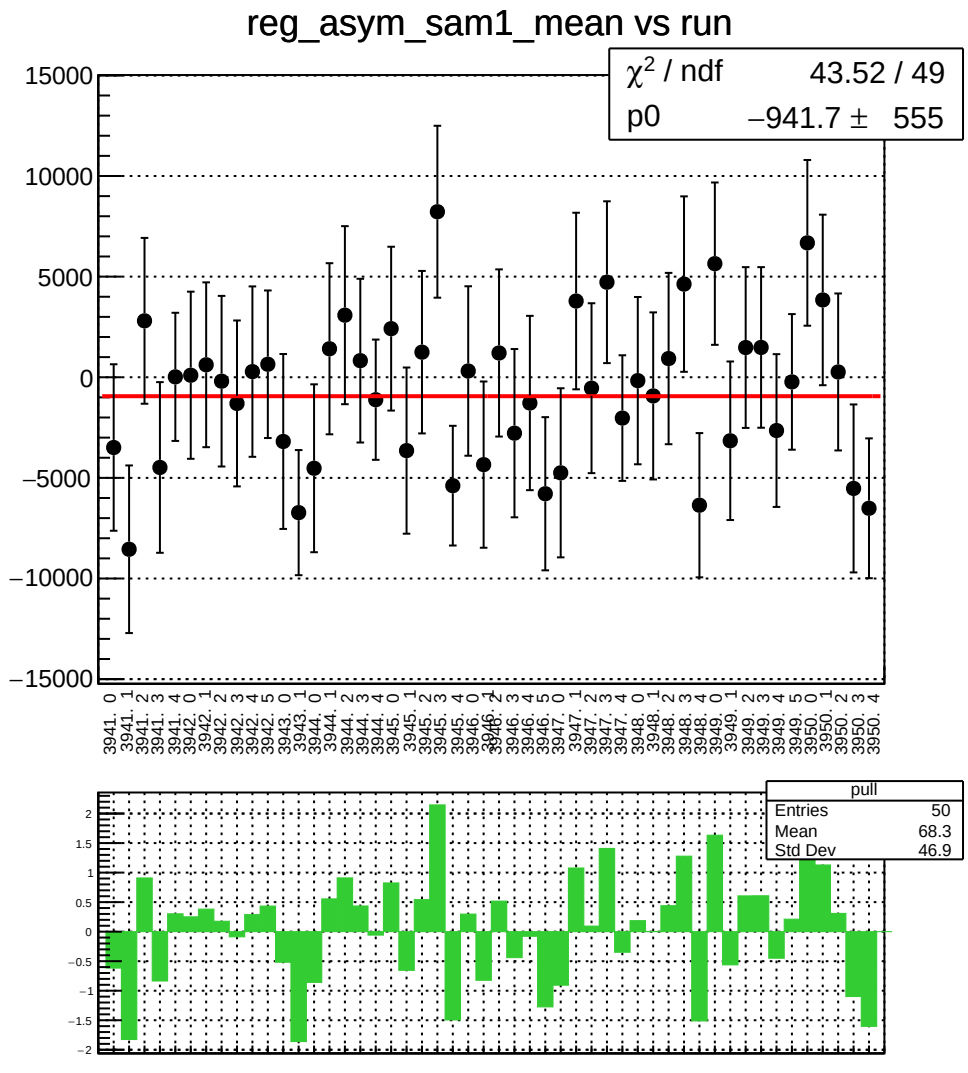

cor_sam7_mean vs run
χ² / ndf 39.83 / 49
p0 −8.805 ± 2911
60000
40000
20000
0
−20000
−40000
−60000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 90.99
Std Dev 67.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.01069
Std Dev 0.8924
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

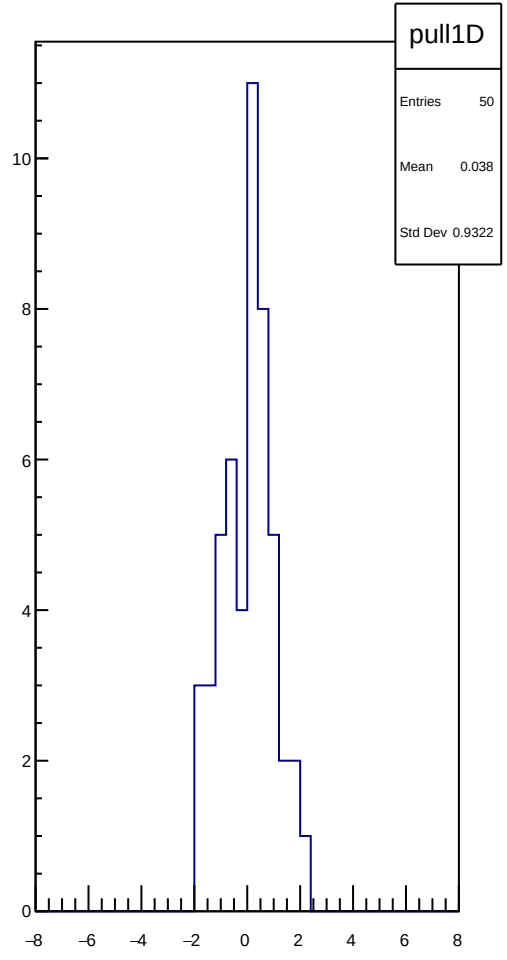

cor_sam7_rms vs run
χ² / ndf 2592 / 49
p0 2059 ± 2.058
2250
2200
2150
2100
2050
2000
1950
1900
1850
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

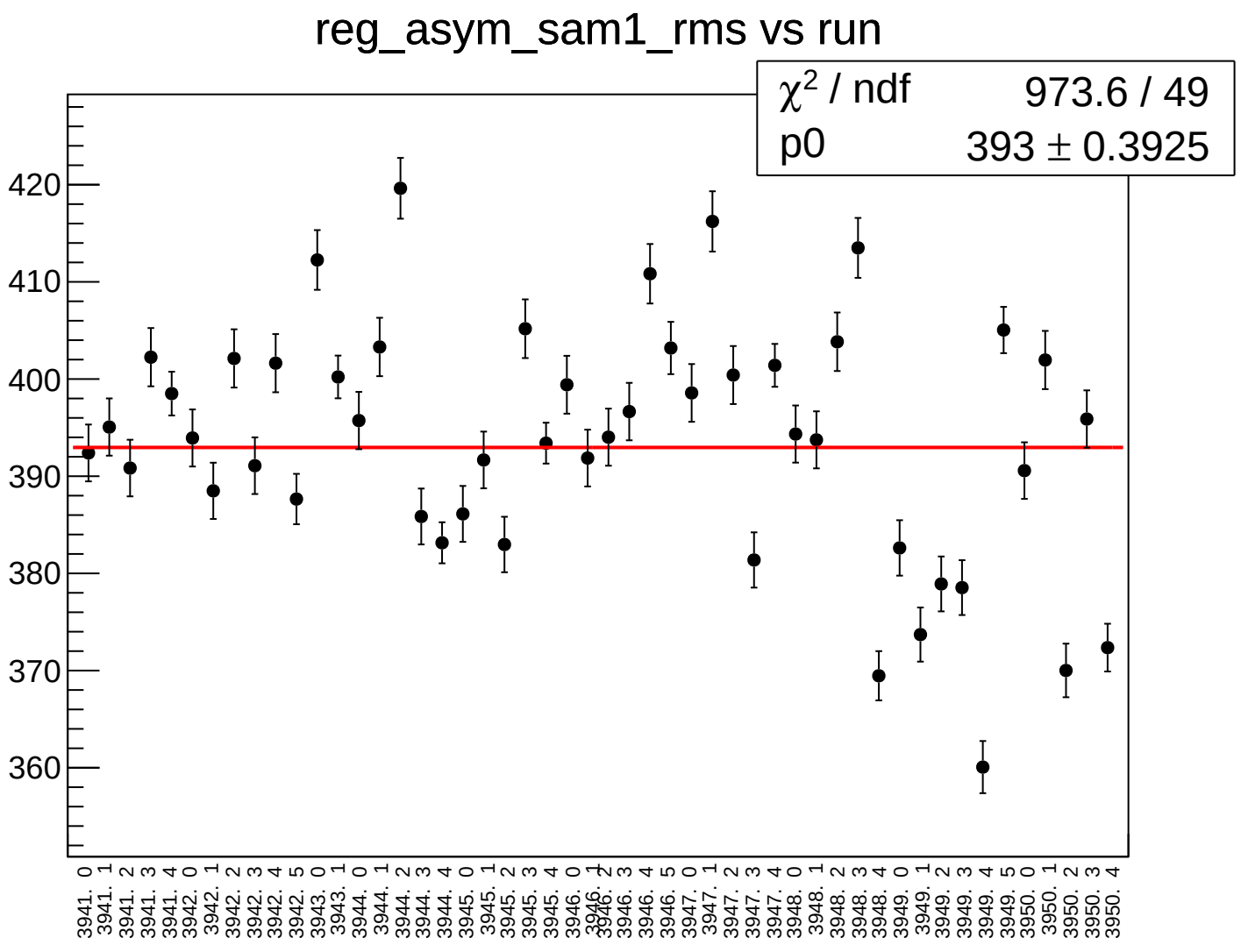

cor_sam8_mean vs run
χ² / ndf 42.02 / 49
p0 −2268 ± 3100
60000
40000
20000
0
−20000
−40000
−60000
−80000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 40.08
Std Dev 12.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

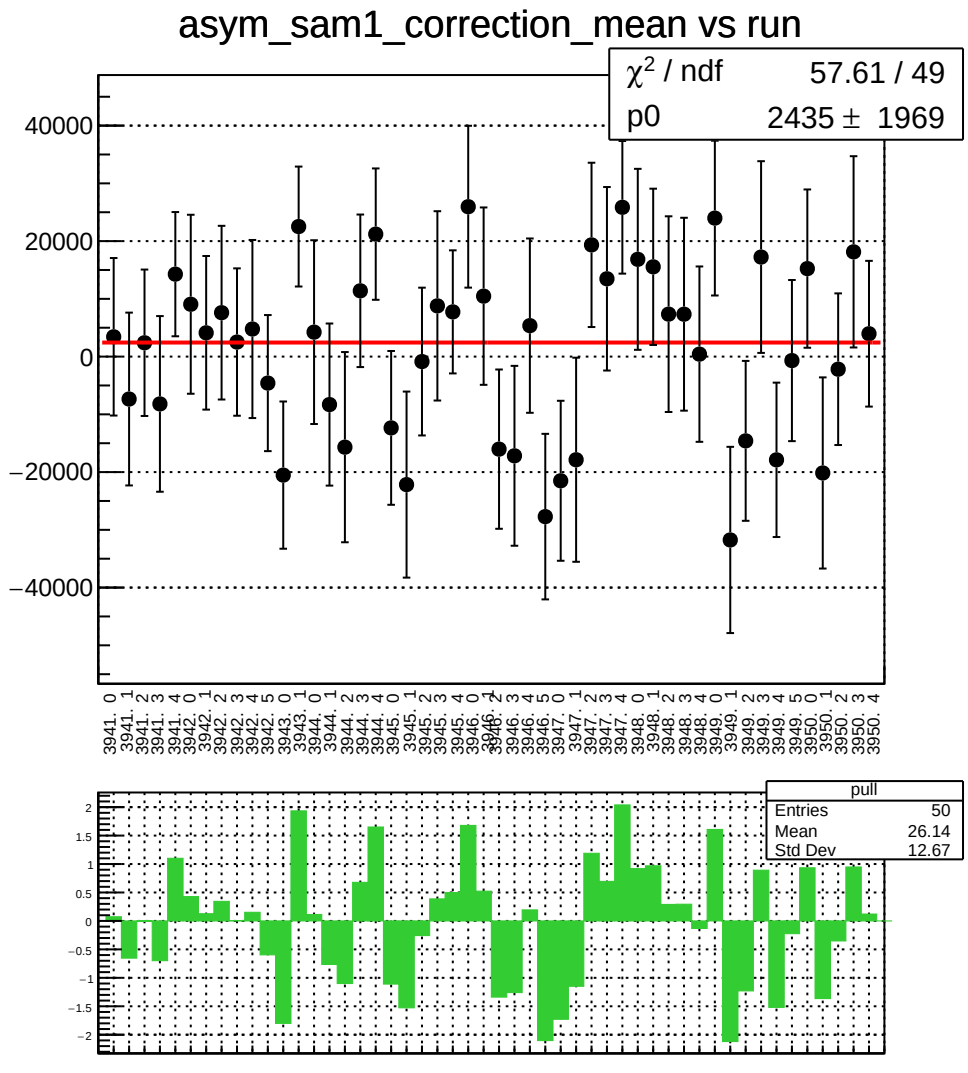

pull1D
Entries 50
Mean 0.02851
Std Dev 0.9163
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

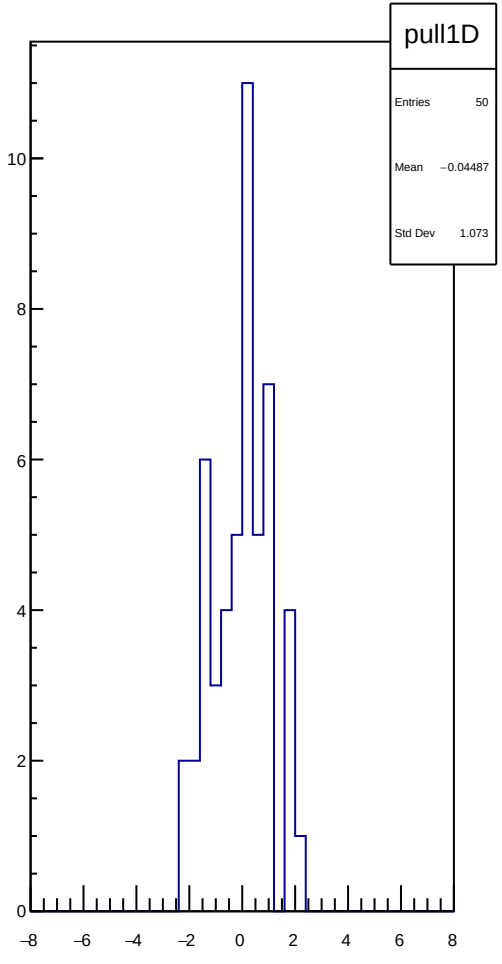

cor_sam8_rms vs run
χ² / ndf 4438 / 49
p0 2191 ± 2.192
2400
2300
2200
2100
2000
1900
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

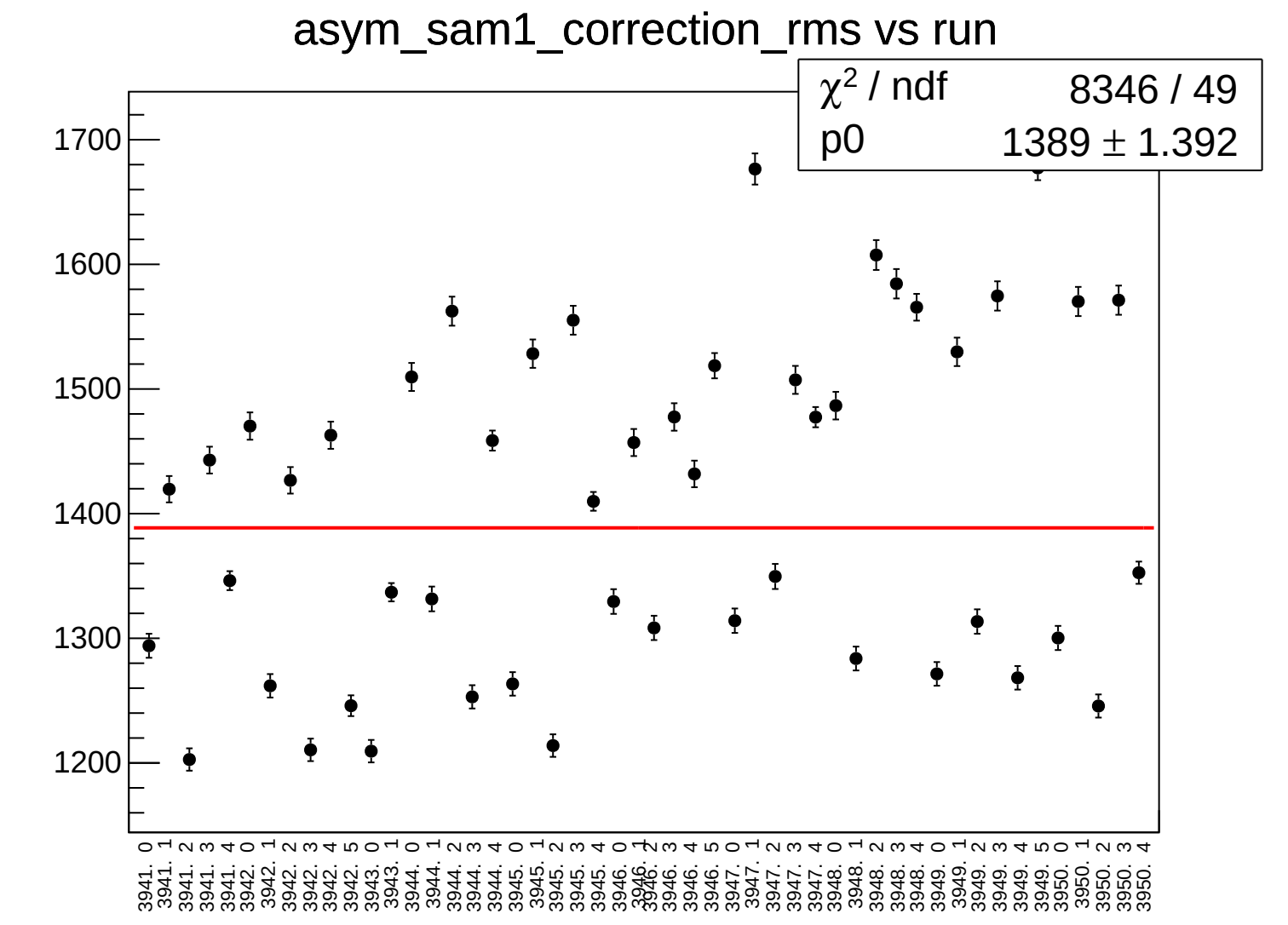

reg_asym_sam1_mean vs run
χ² / ndf 43.52 / 49
p0 −941.7 ± 555
pull
Entries 50
Mean 68.3
Std Dev 46.9

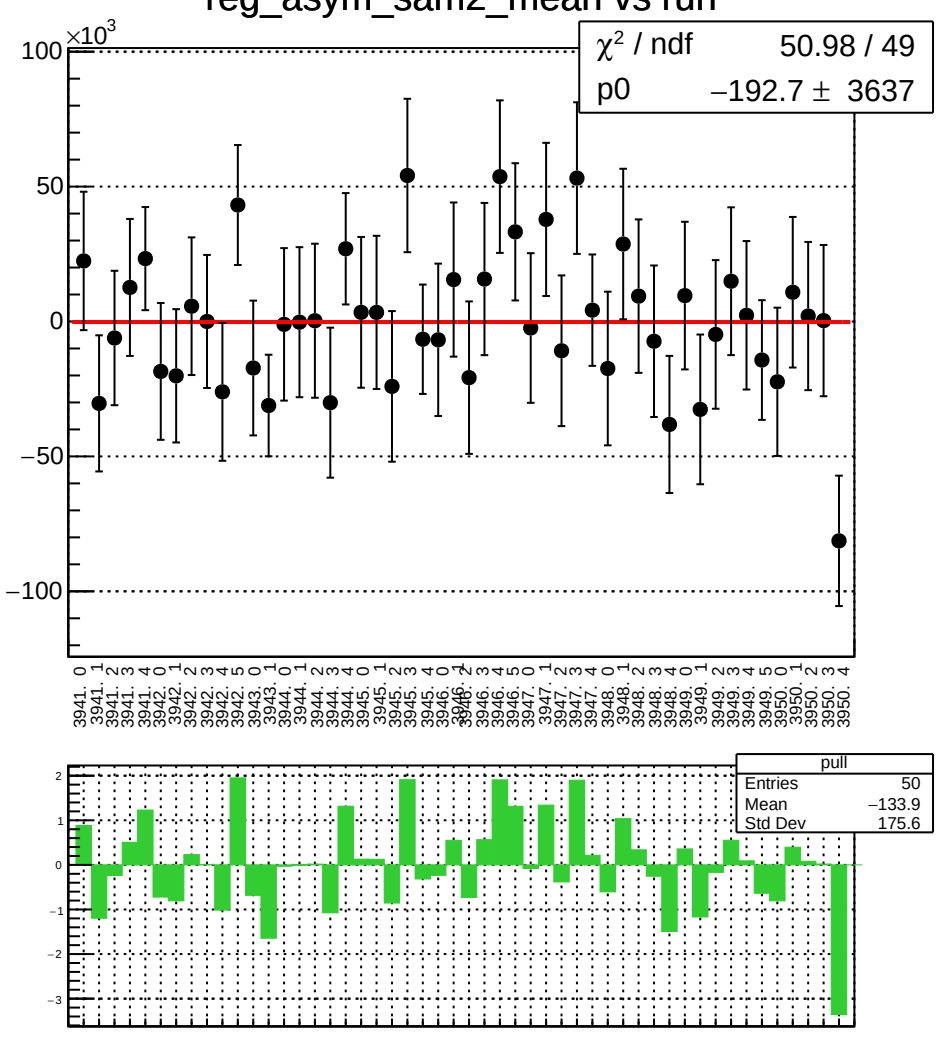

pull1D
Entries 50
Mean 0.038
Std Dev 0.9322

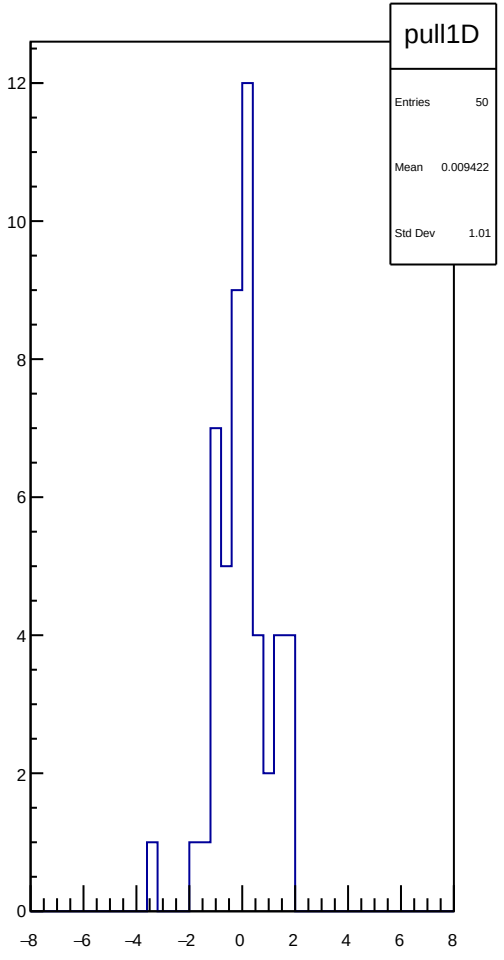

reg_asym_sam1_rms vs run
χ² / ndf 973.6 / 49
p0 393 ± 0.3925
420
410
400
390
380
370
360
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

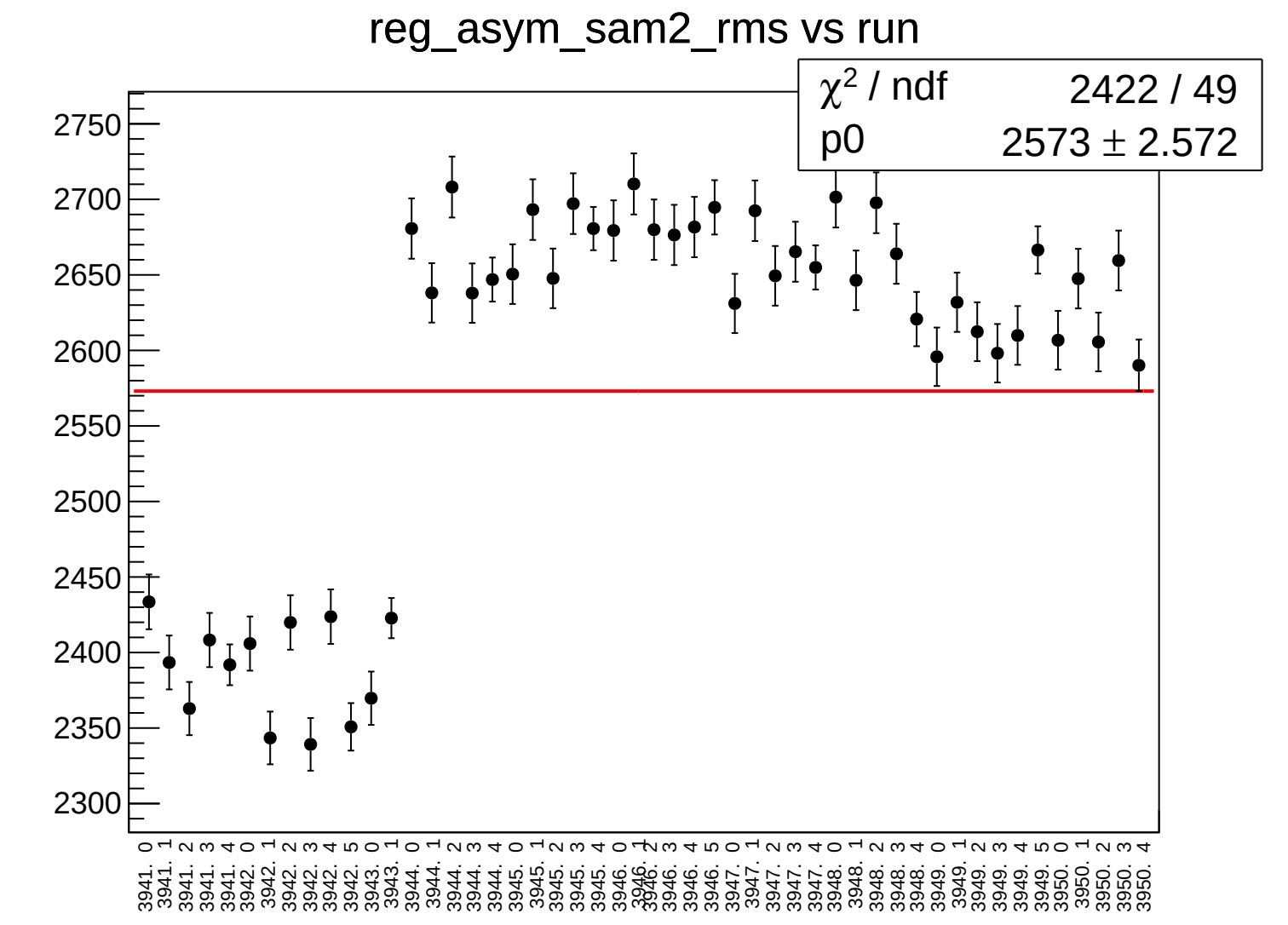

asym_sam1_correction_mean vs run
χ² / ndf 57.61 / 49
p0 2435 ± 1969
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 26.14
Std Dev 12.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

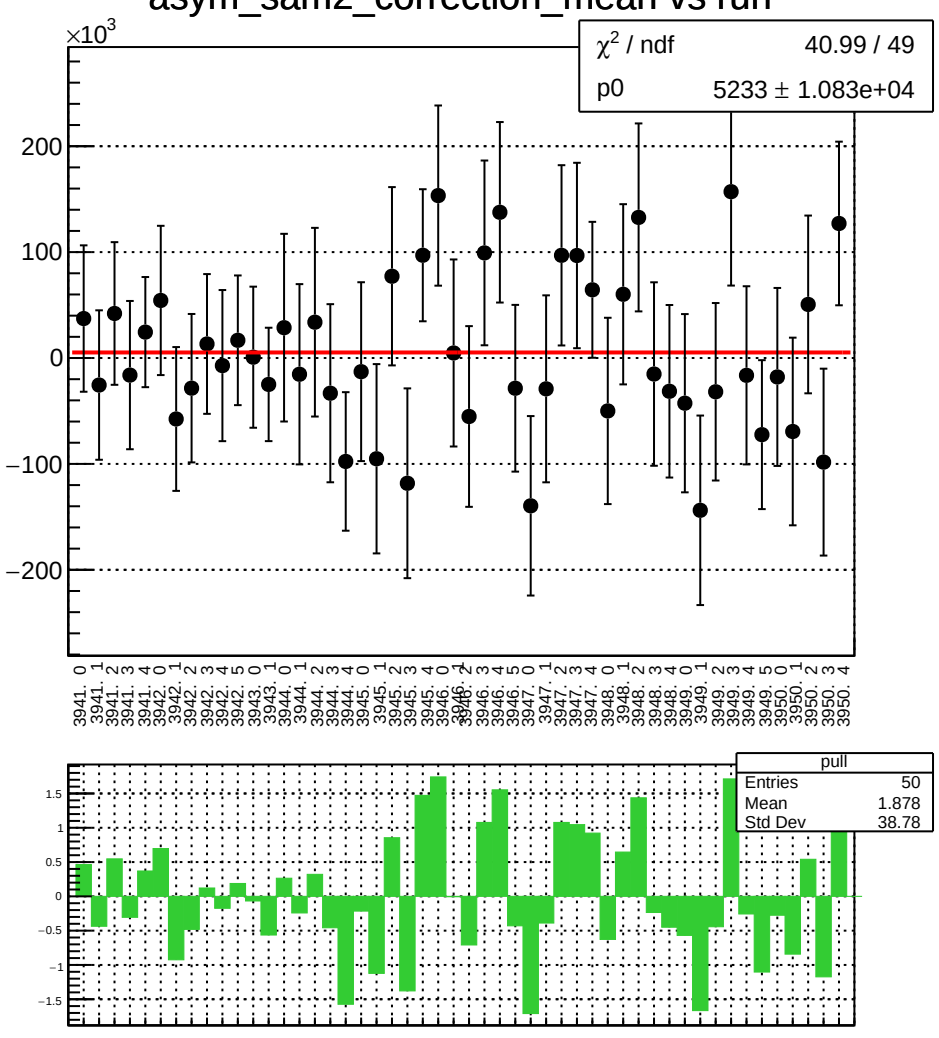

pull1D
Entries 50
Mean −0.04487
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

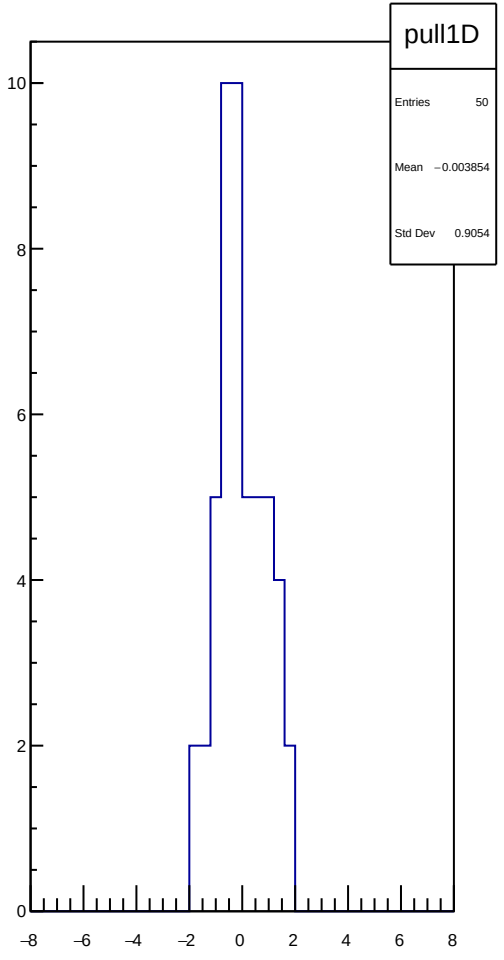

asym_sam1_correction_rms vs run
χ² / ndf 8346 / 49
p0 1389 ± 1.392
1700
1600
1500
1400
1300
1200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

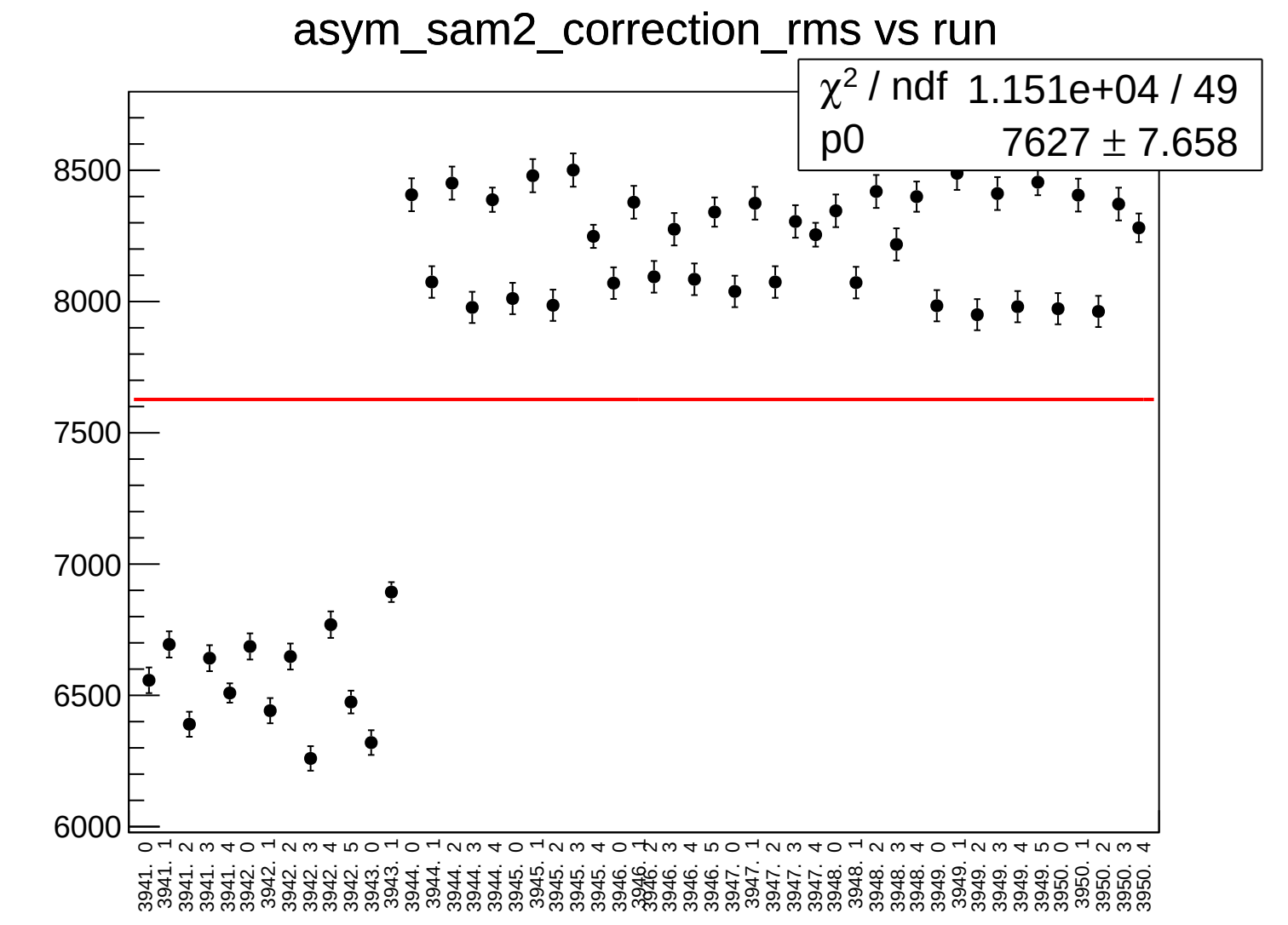

reg_asym_sam2_mean vs run
χ² / ndf 50.98 / 49
p0 −192.7 ± 3637
pull
Entries 50
Mean −133.9
Std Dev 175.6

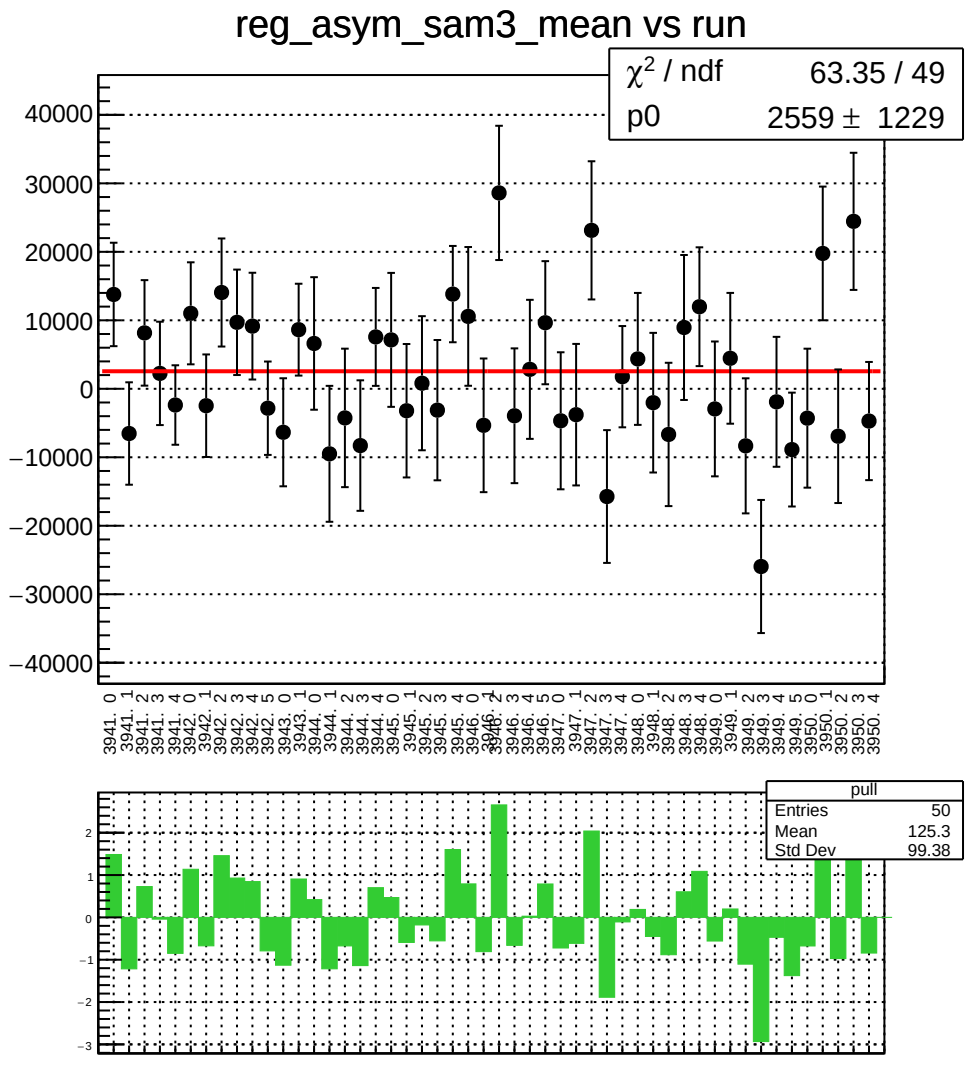

pull1D
Entries 50
Mean 0.009422
Std Dev 1.01

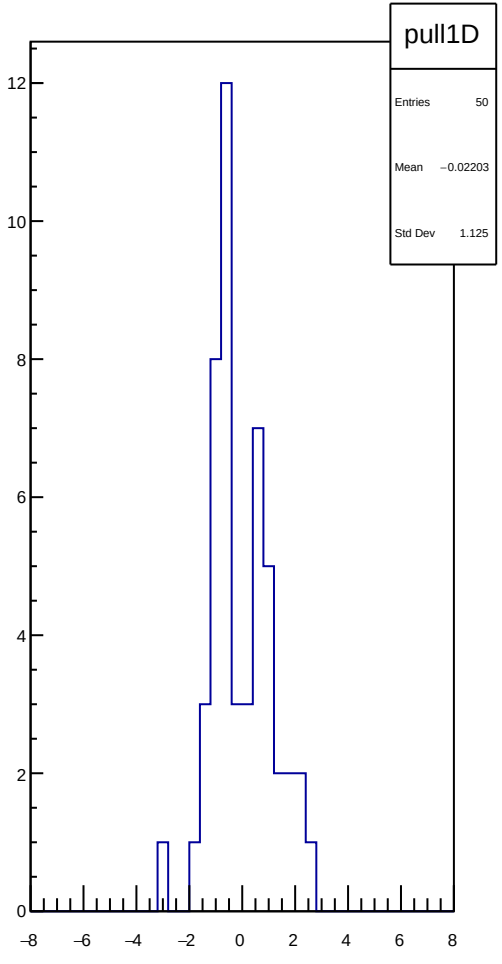

reg_asym_sam2_rms vs run
χ² / ndf 2422 / 49
p0 2573 ± 2.572
2750
2700
2650
2600
2550
2500
2450
2400
2350
2300
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

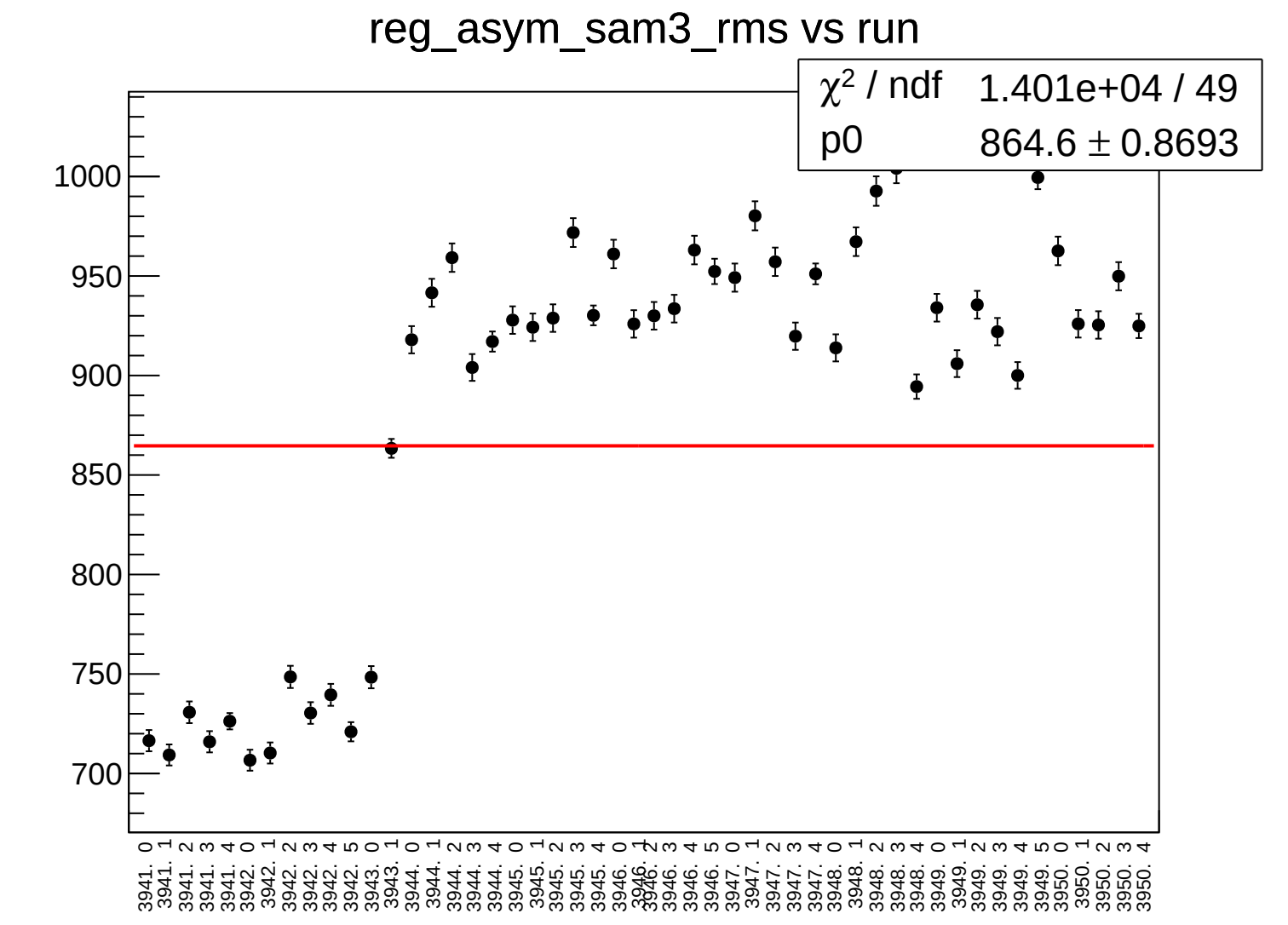

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 40.99 / 49
p0 5233 ± 1.083e+04
200
100
0
−100
−200
pull
Entries 50
Mean 1.878
Std Dev 38.78
1.5
1
0.5
0
−0.5
−1
−1.5

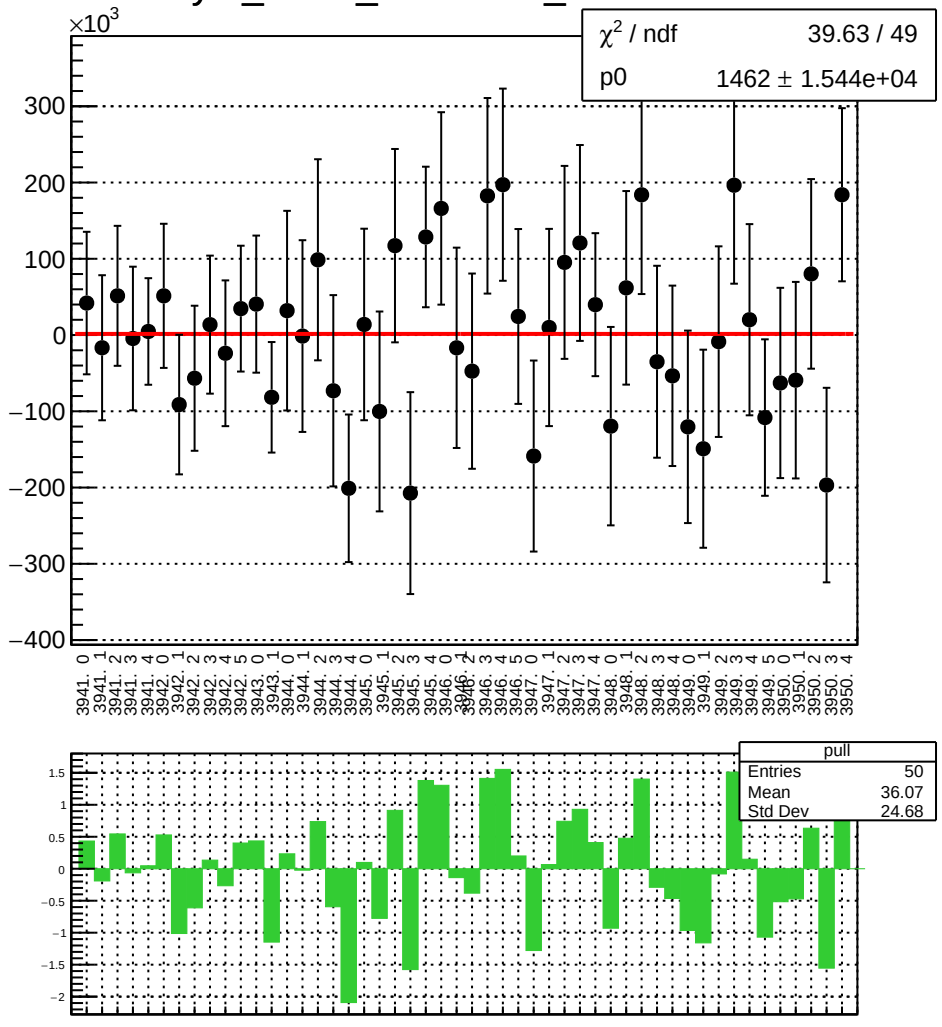

pull1D
Entries 50
Mean −0.003854
Std Dev 0.9054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

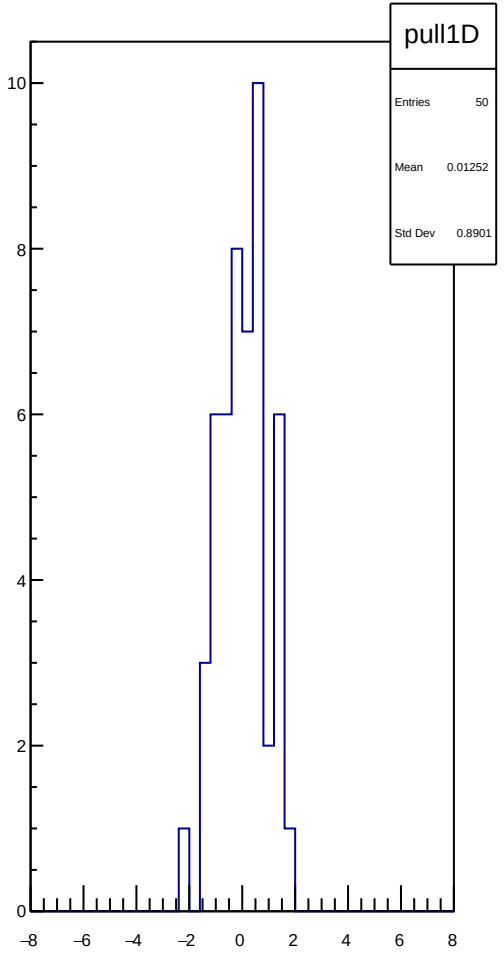

asym_sam2_correction_rms vs run
χ² / ndf 1.151e+04 / 49
p0 7627 ± 7.658
8500
8000
7500
7000
6500
6000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

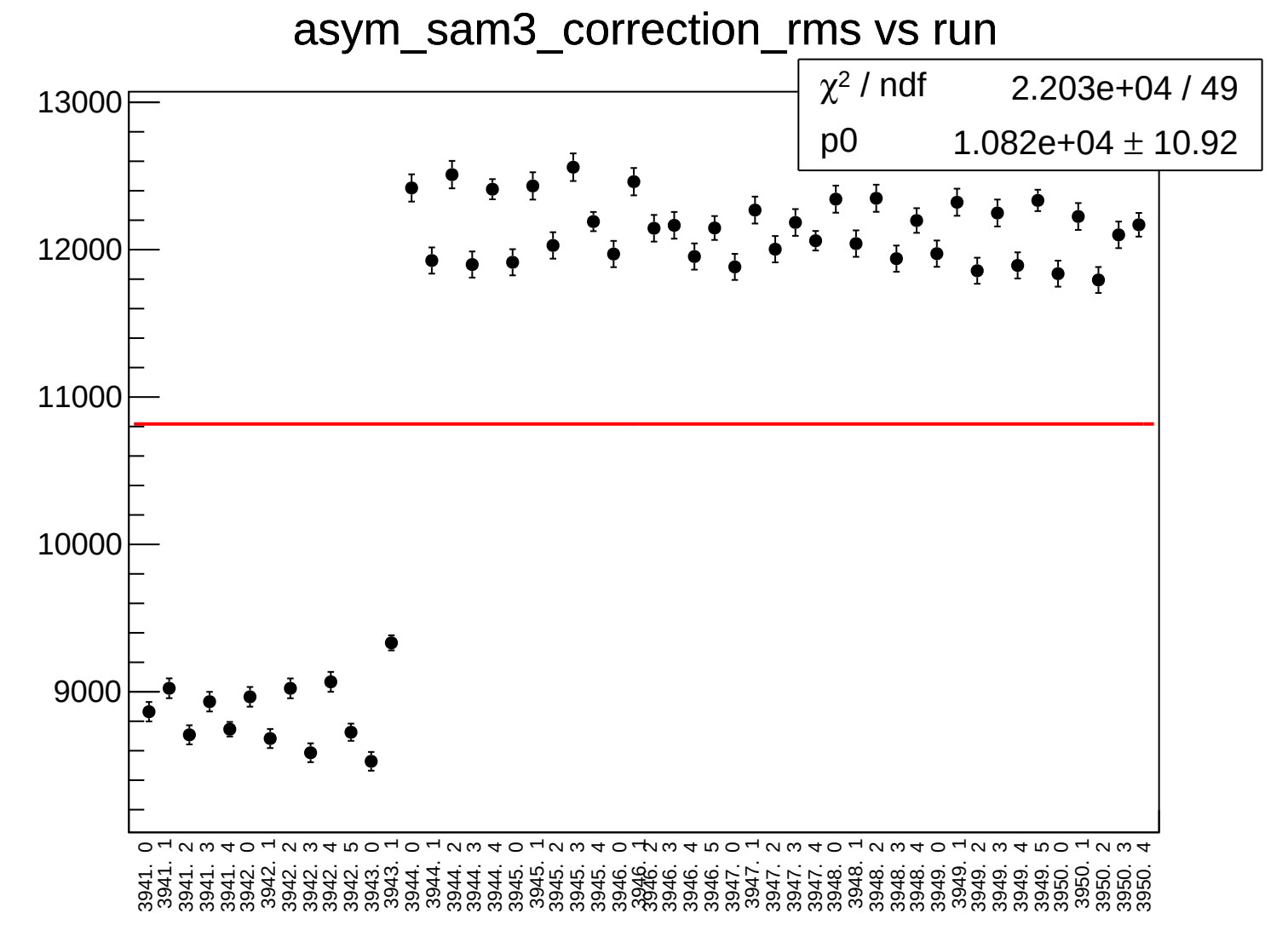

reg_asym_sam3_mean vs run
$\chi^2$ / ndf 63.35 / 49
p0 2559 ± 1229
pull
Entries 50
Mean 125.3
Std Dev 99.38

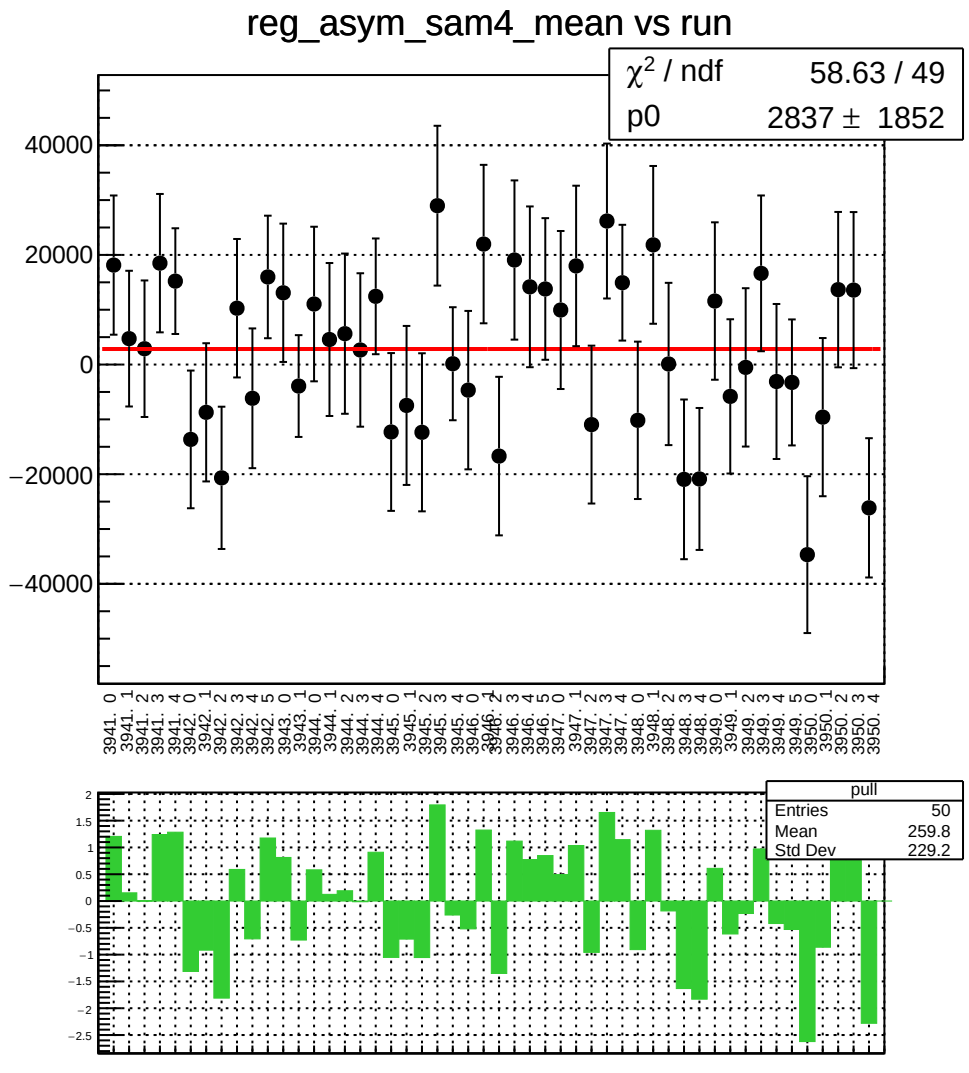

pull1D
Entries 50
Mean −0.02203
Std Dev 1.125

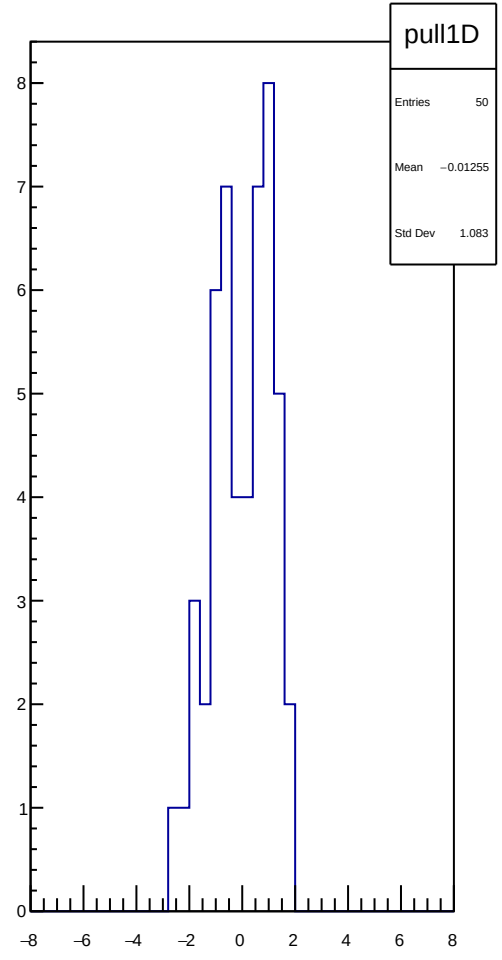

reg_asym_sam3_rms vs run
χ² / ndf 1.401e+04 / 49
p0 864.6 ± 0.8693
1000
950
900
850
800
750
700
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

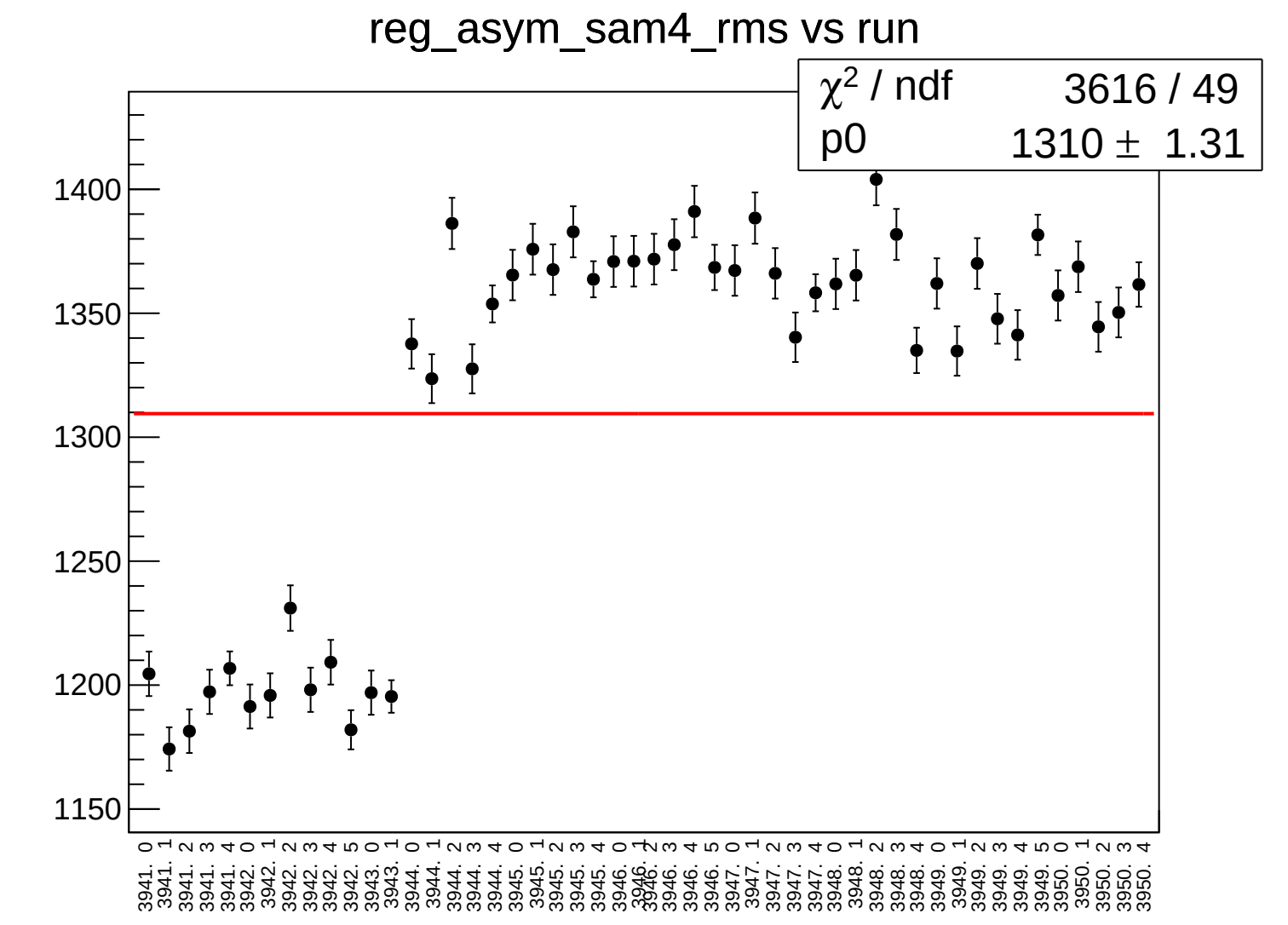

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 39.63 / 49
p0 1462 ± 1.544e+04
pull
Entries 50
Mean 36.07
Std Dev 24.68

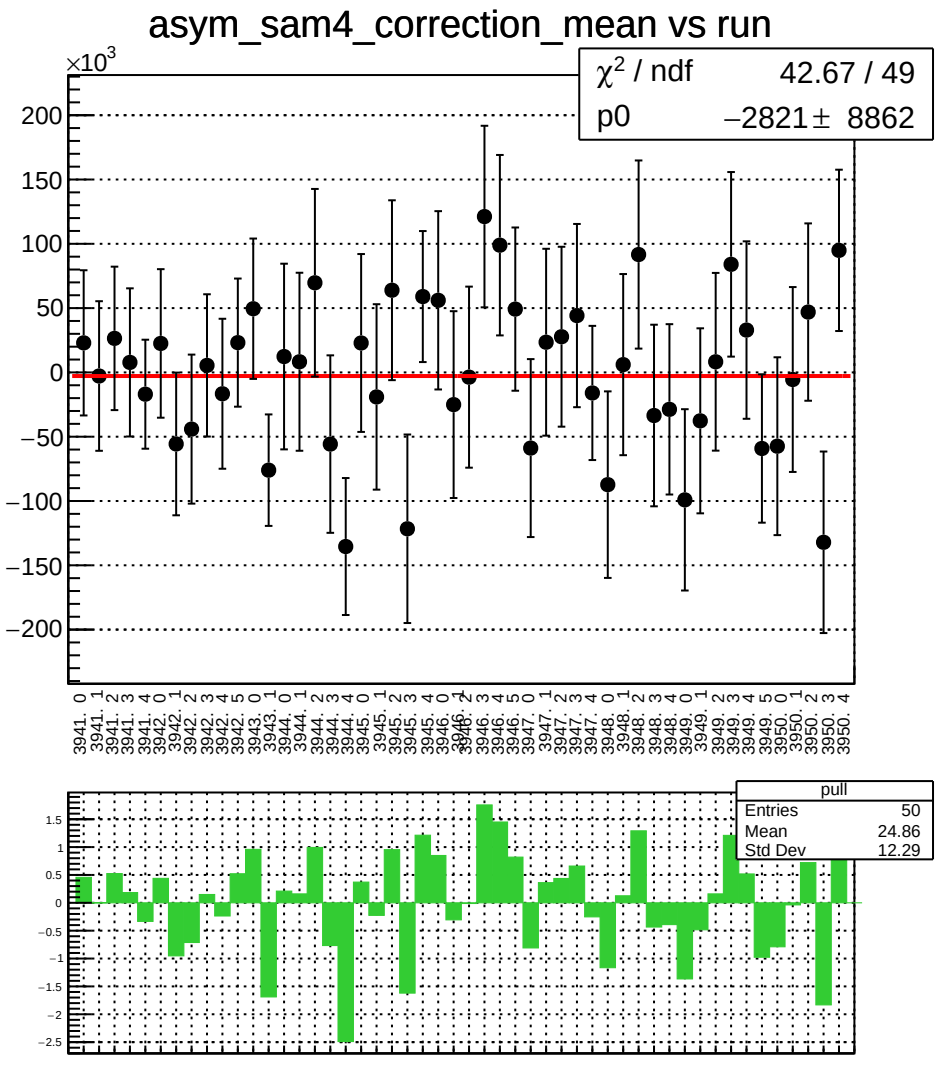

pull1D
Entries 50
Mean 0.01252
Std Dev 0.8901

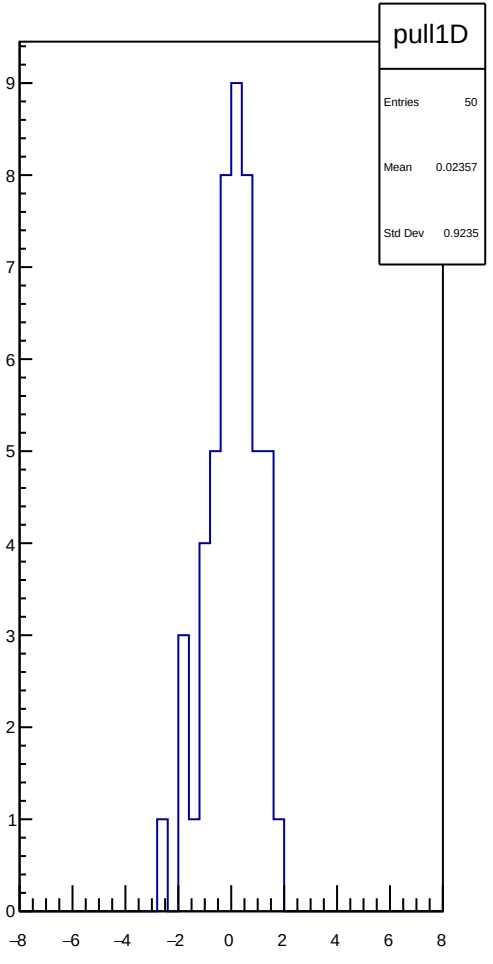

asym_sam3_correction_rms vs run
χ² / ndf 2.203e+04 / 49
p0 1.082e+04 ± 10.92
13000
12000
11000
10000
9000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

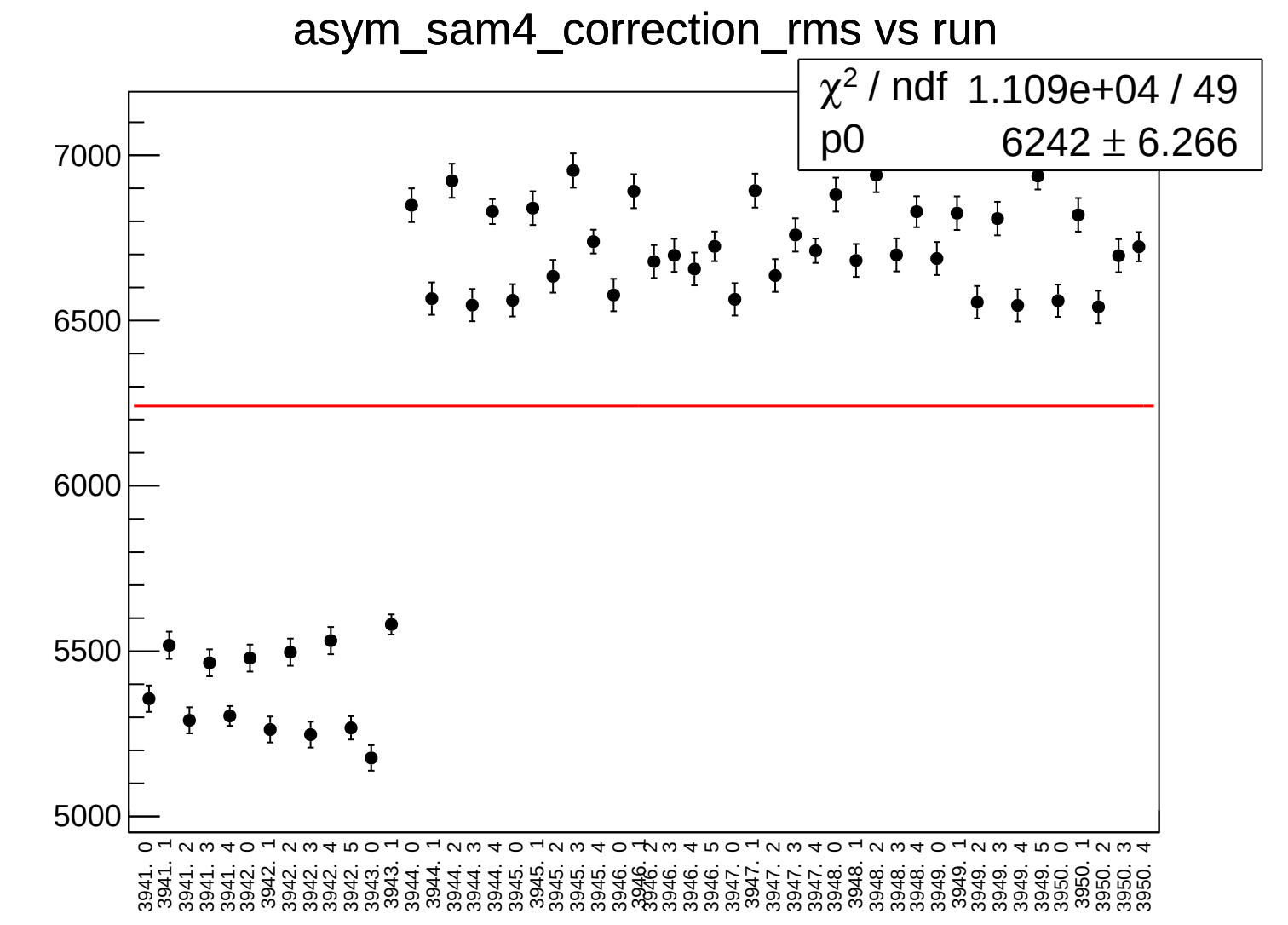

reg_asym_sam4_mean vs run
χ² / ndf 58.63 / 49
p0 2837 ± 1852
40000
20000
0
−20000
−40000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 259.8
Std Dev 229.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

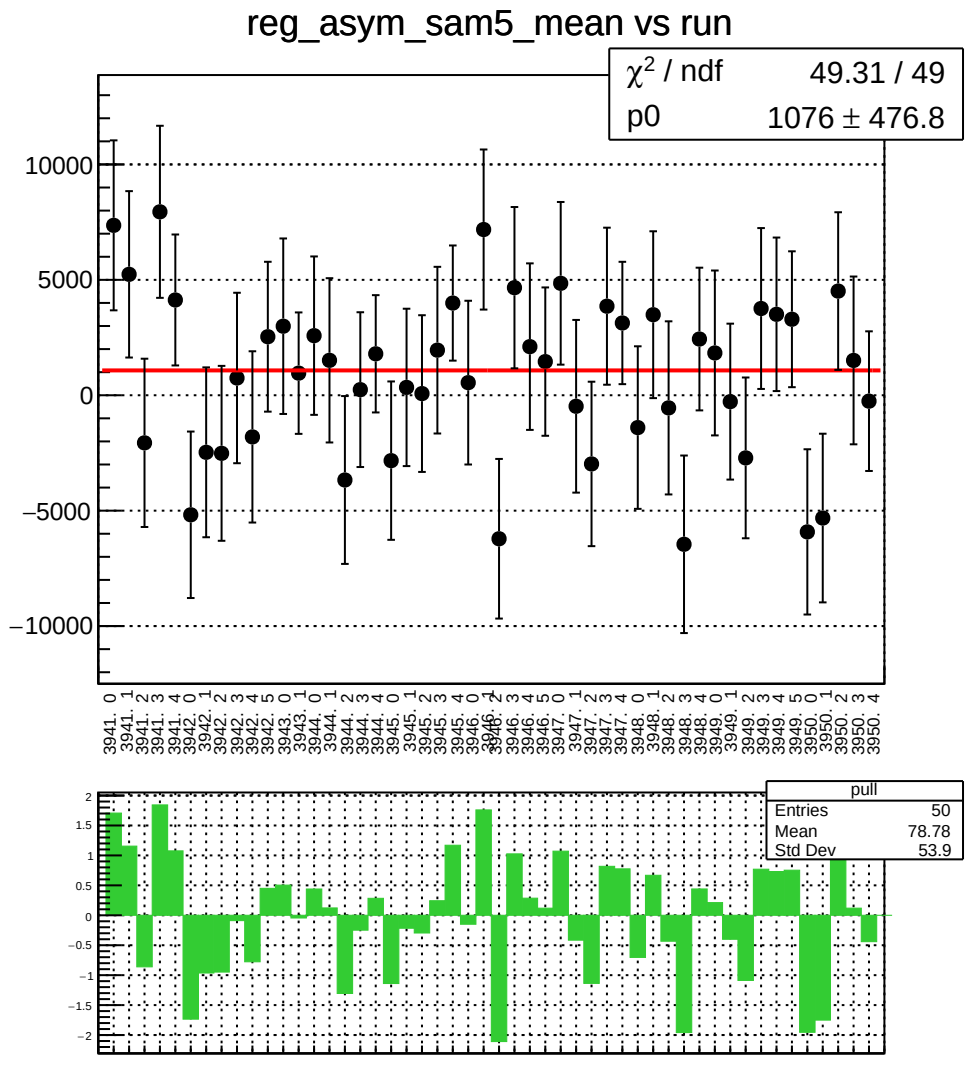

pull1D
Entries 50
Mean −0.01255
Std Dev 1.083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

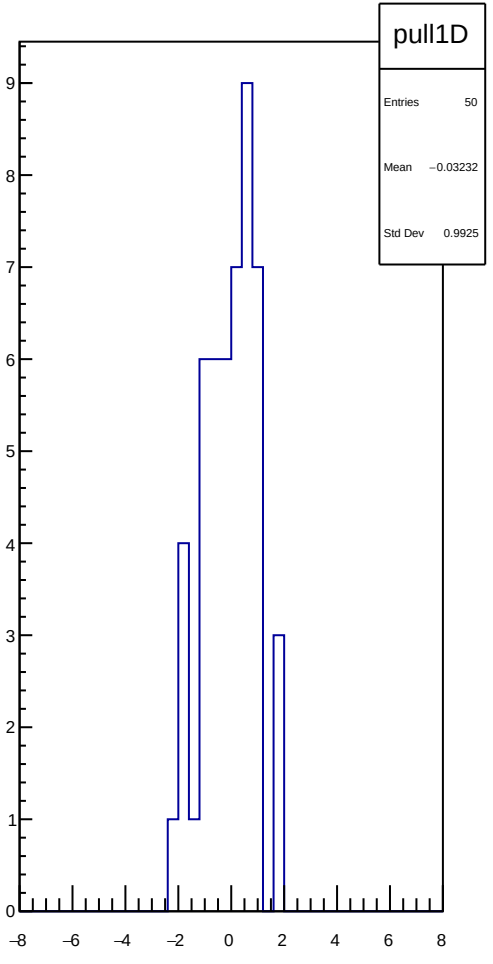

reg_asym_sam4_rms vs run
χ² / ndf 3616 / 49
p0 1310 ± 1.31
1400
1350
1300
1250
1200
1150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

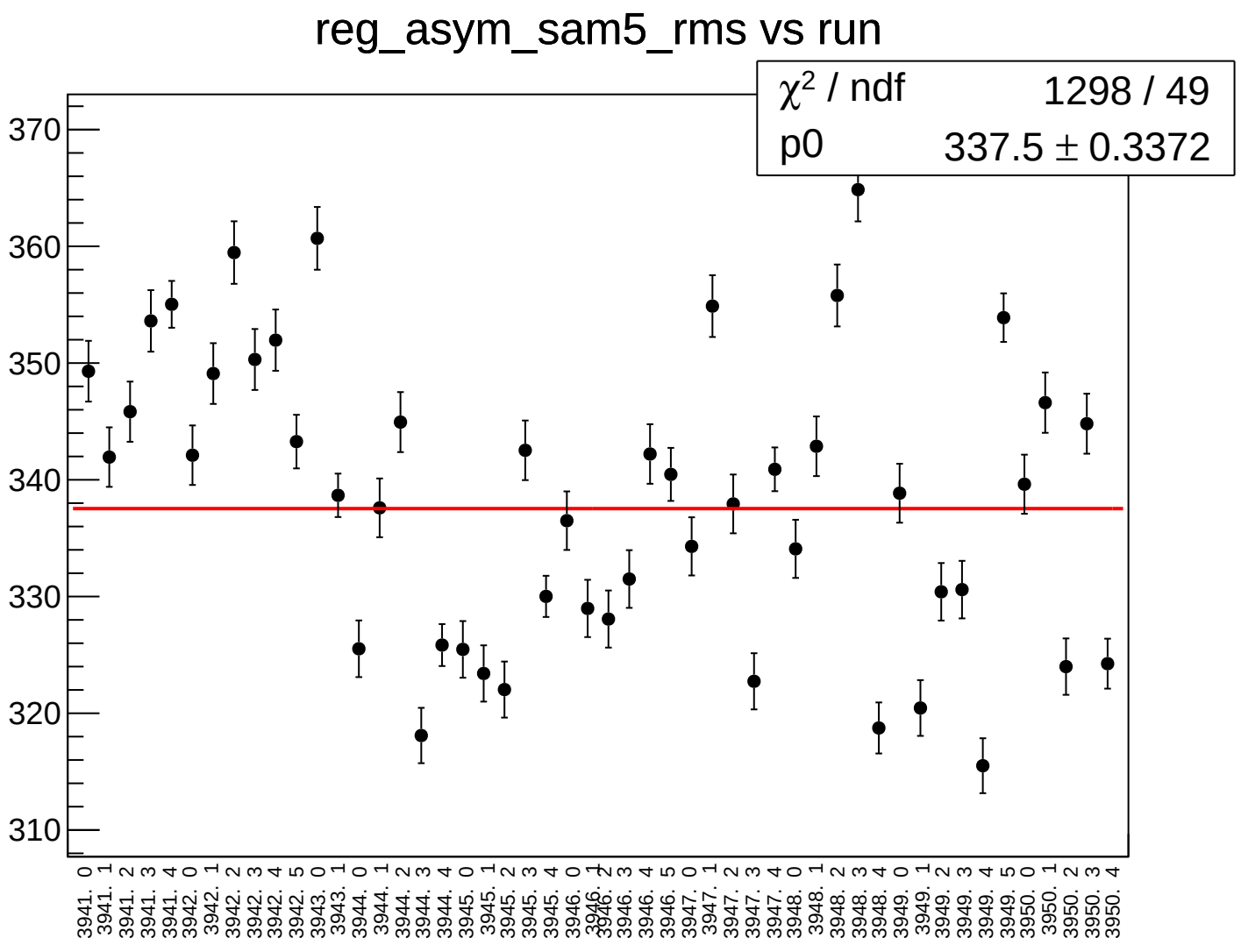

asym_sam4_correction_mean vs run
×10^3
χ^2 / ndf 42.67 / 49
p0 −2821 ± 8862
pull
Entries 50
Mean 24.86
Std Dev 12.29

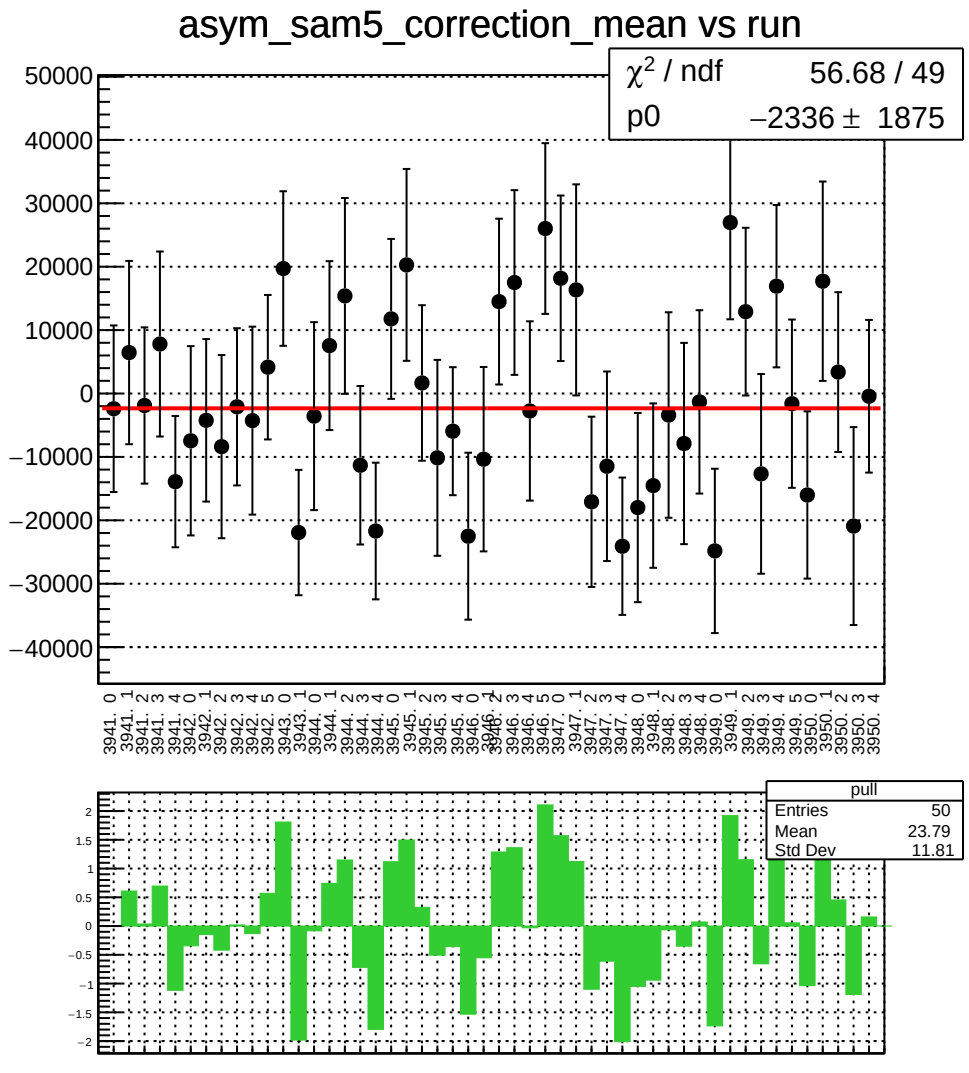

pull1D
Entries 50
Mean 0.02357
Std Dev 0.9235

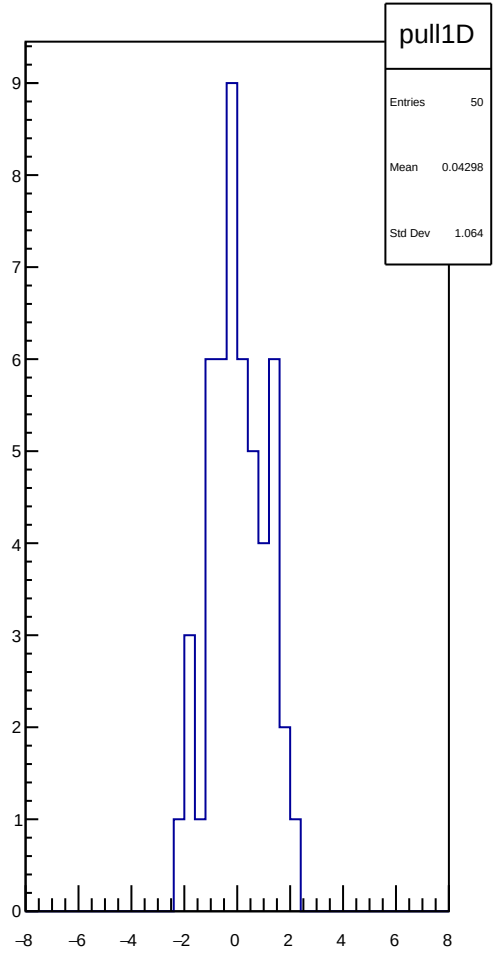

asym_sam4_correction_rms vs run
χ² / ndf 1.109e+04 / 49
p0 6242 ± 6.266
7000
6500
6000
5500
5000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

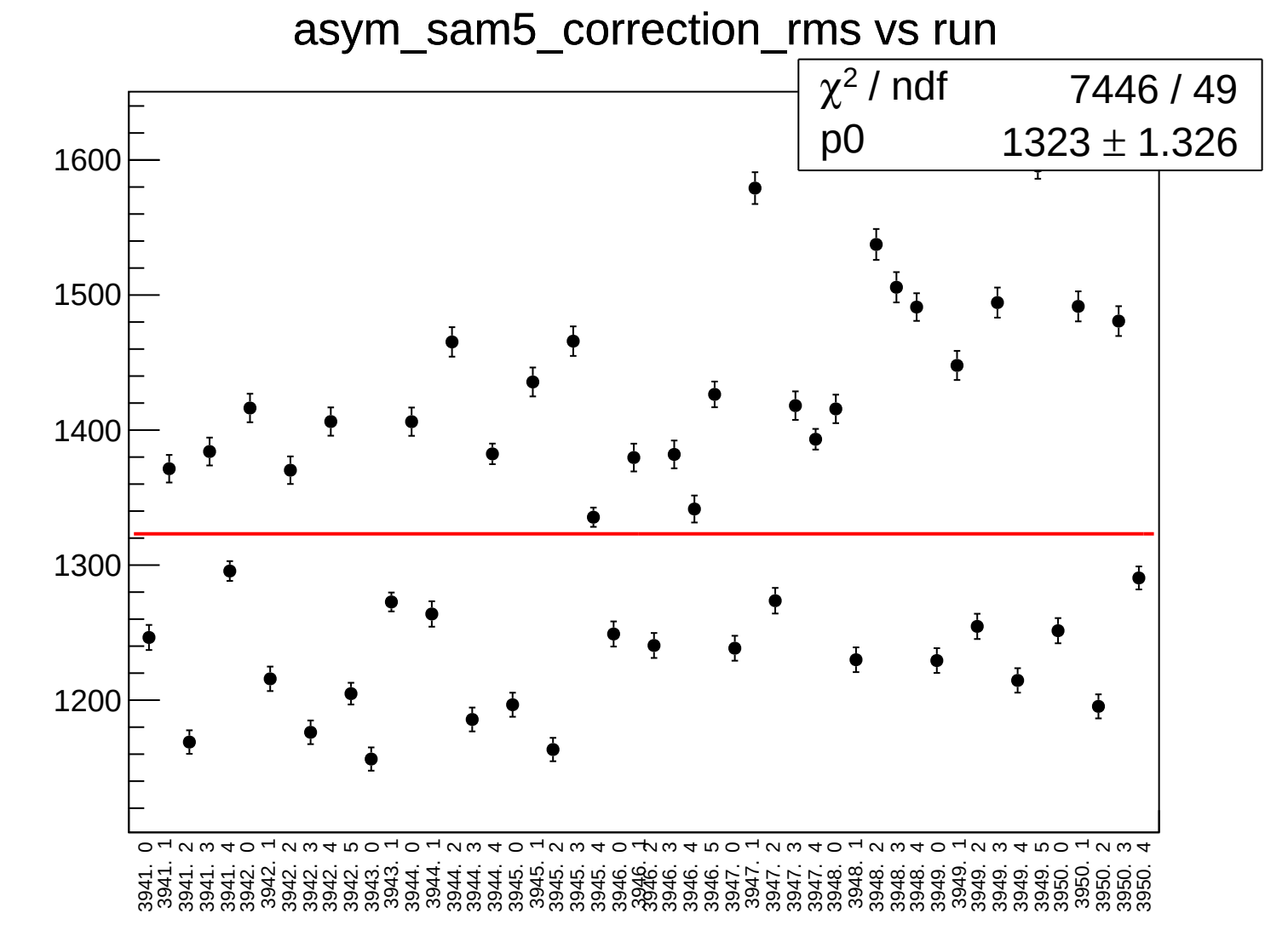

reg_asym_sam5_mean vs run
χ² / ndf 49.31 / 49
p0 1076 ± 476.8
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 78.78
Std Dev 53.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

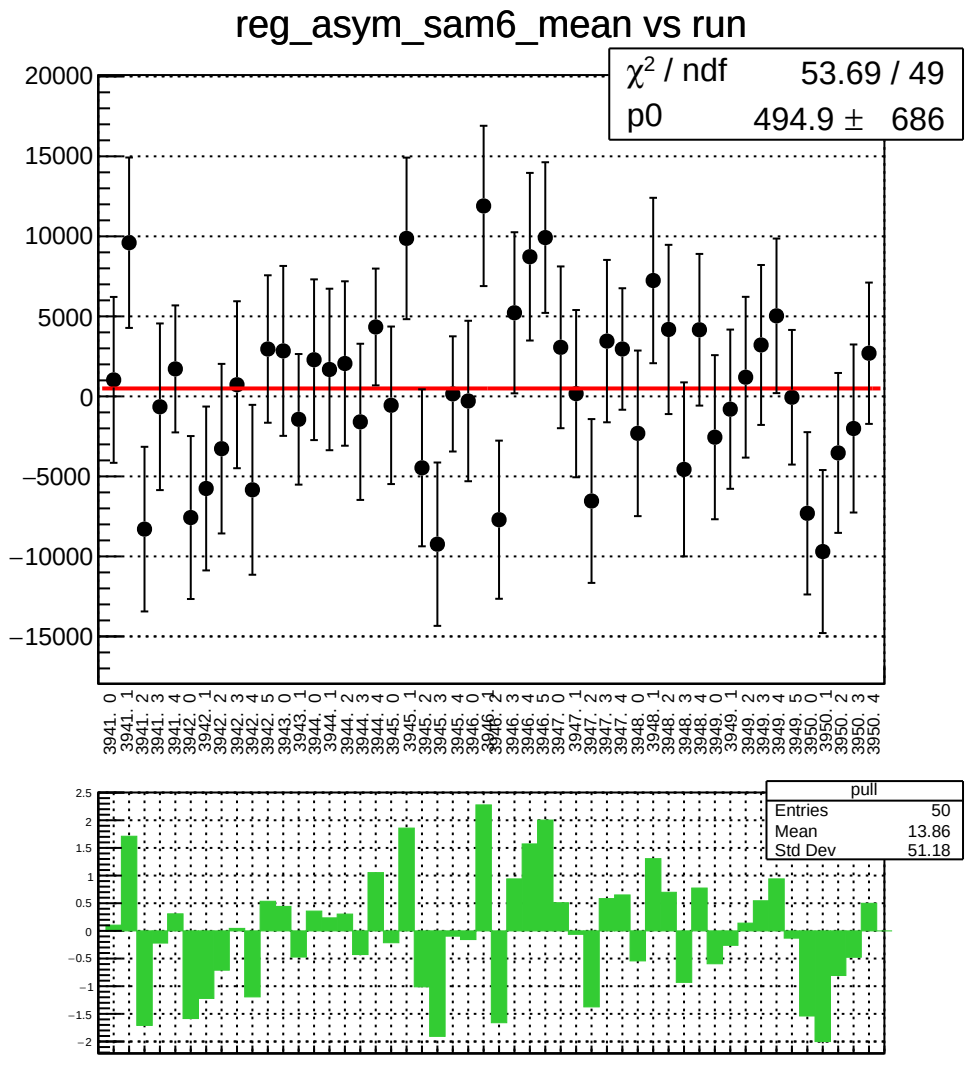

pull1D
Entries 50
Mean −0.03232
Std Dev 0.9925
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

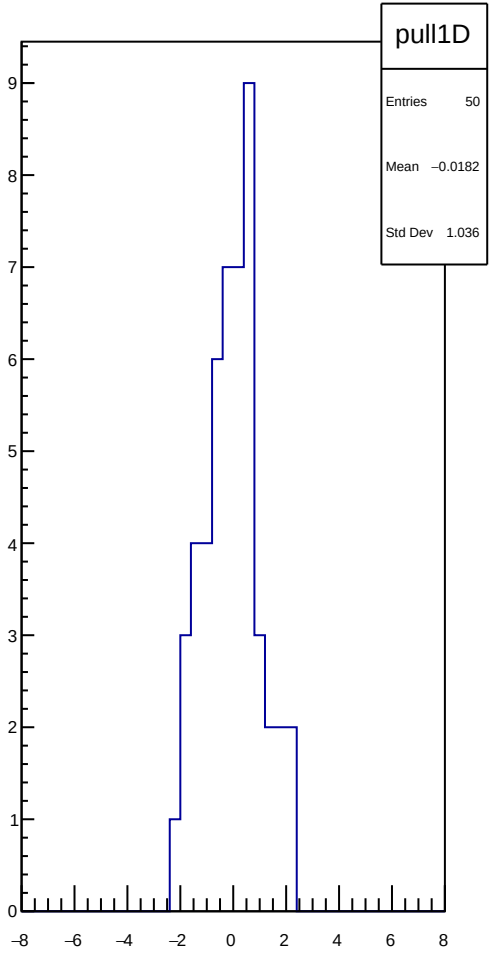

reg_asym_sam5_rms vs run
χ² / ndf 1298 / 49
p0 337.5 ± 0.3372
370
360
350
340
330
320
310
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

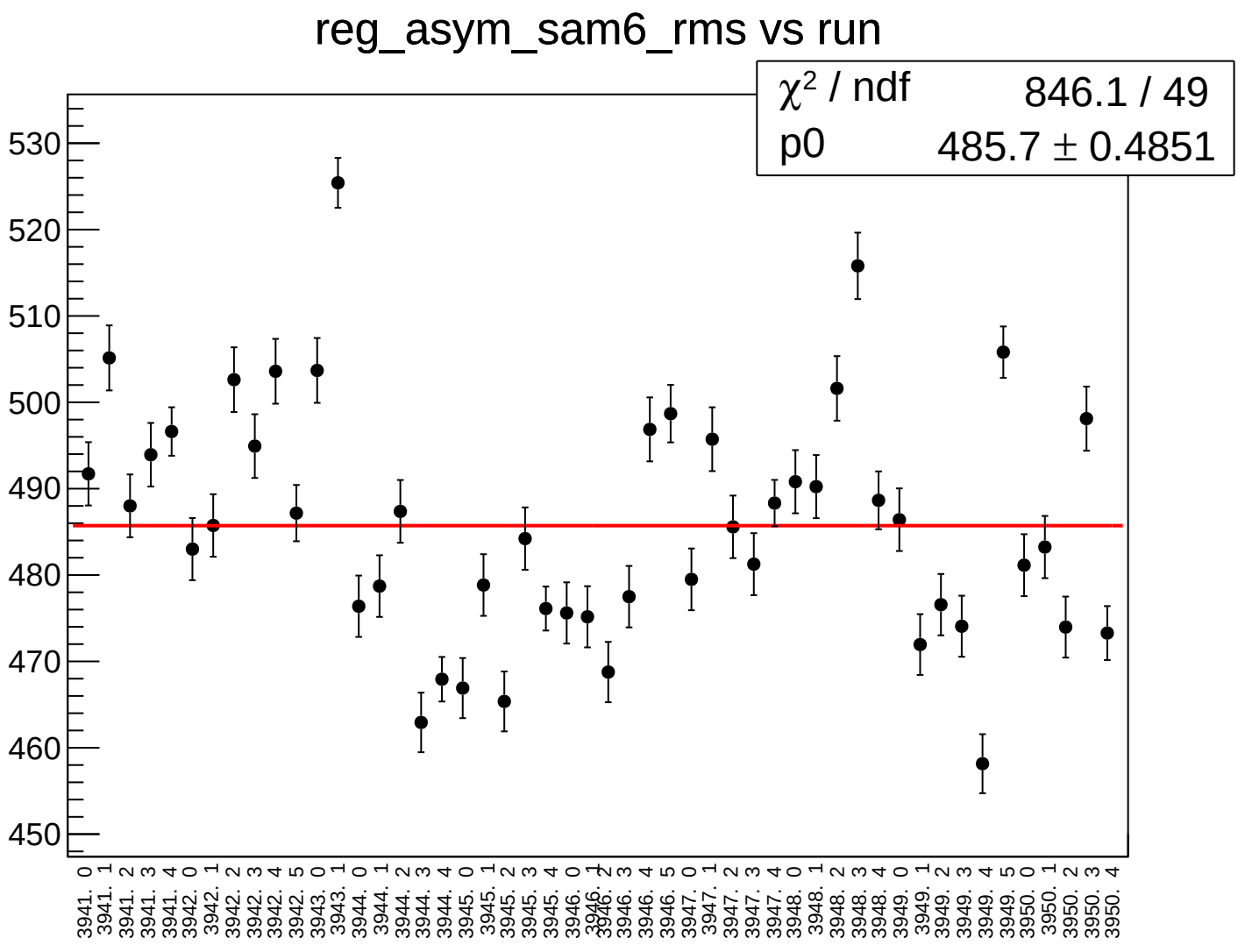

asym_sam5_correction_mean vs run
χ² / ndf 56.68 / 49
p0 −2336 ± 1875
pull
Entries 50
Mean 23.79
Std Dev 11.81

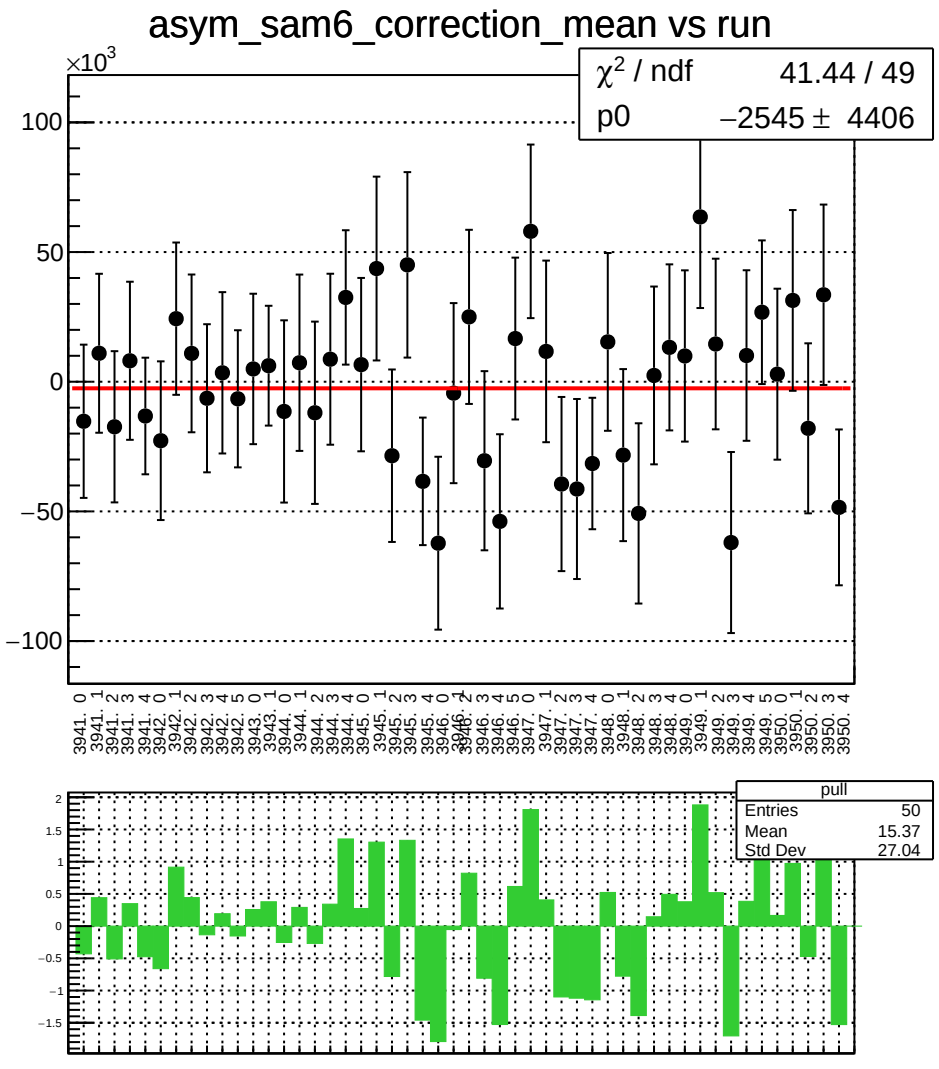

pull1D
Entries 50
Mean 0.04298
Std Dev 1.064

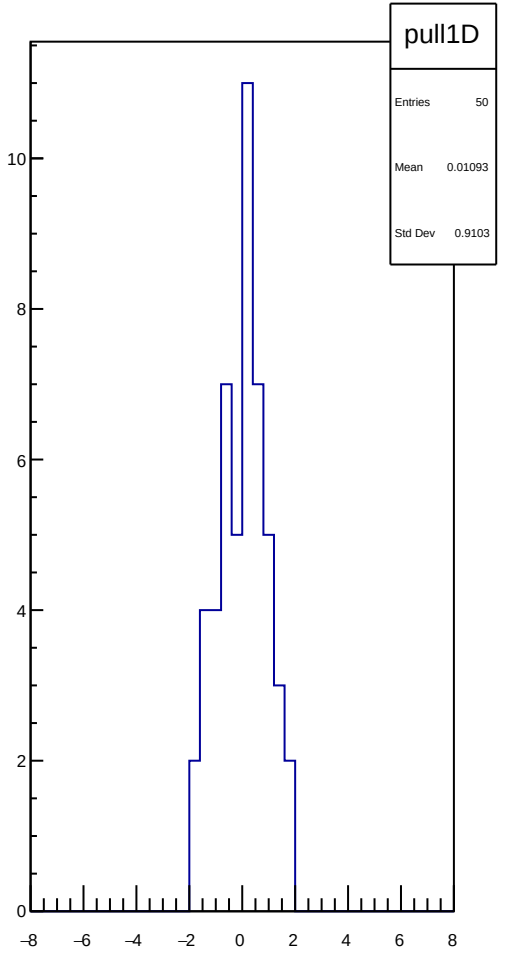

asym_sam5_correction_rms vs run
χ² / ndf 7446 / 49
p0 1323 ± 1.326
1600
1500
1400
1300
1200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

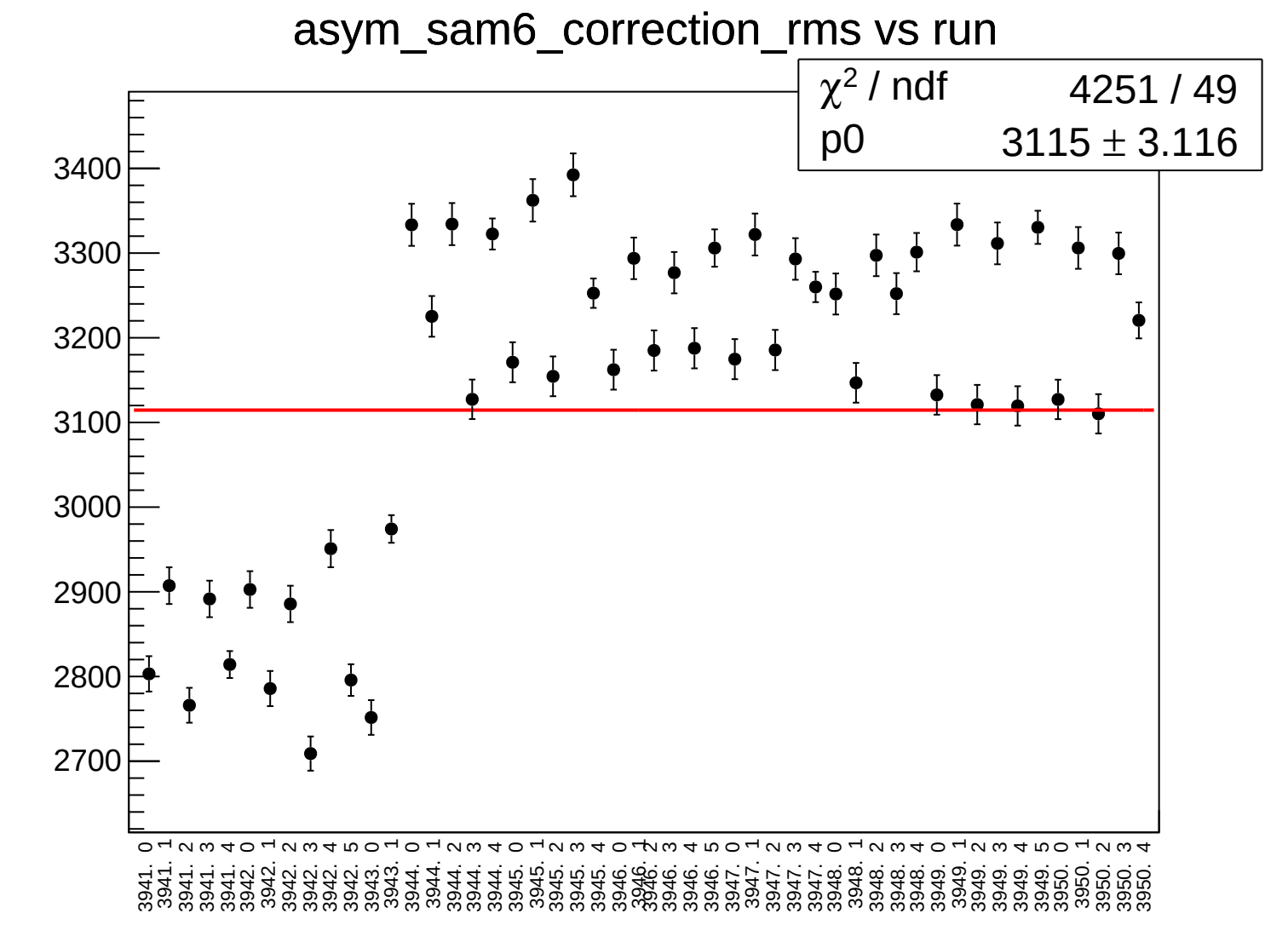

reg_asym_sam6_mean vs run
χ² / ndf 53.69 / 49
p0 494.9 ± 686
pull
Entries 50
Mean 13.86
Std Dev 51.18

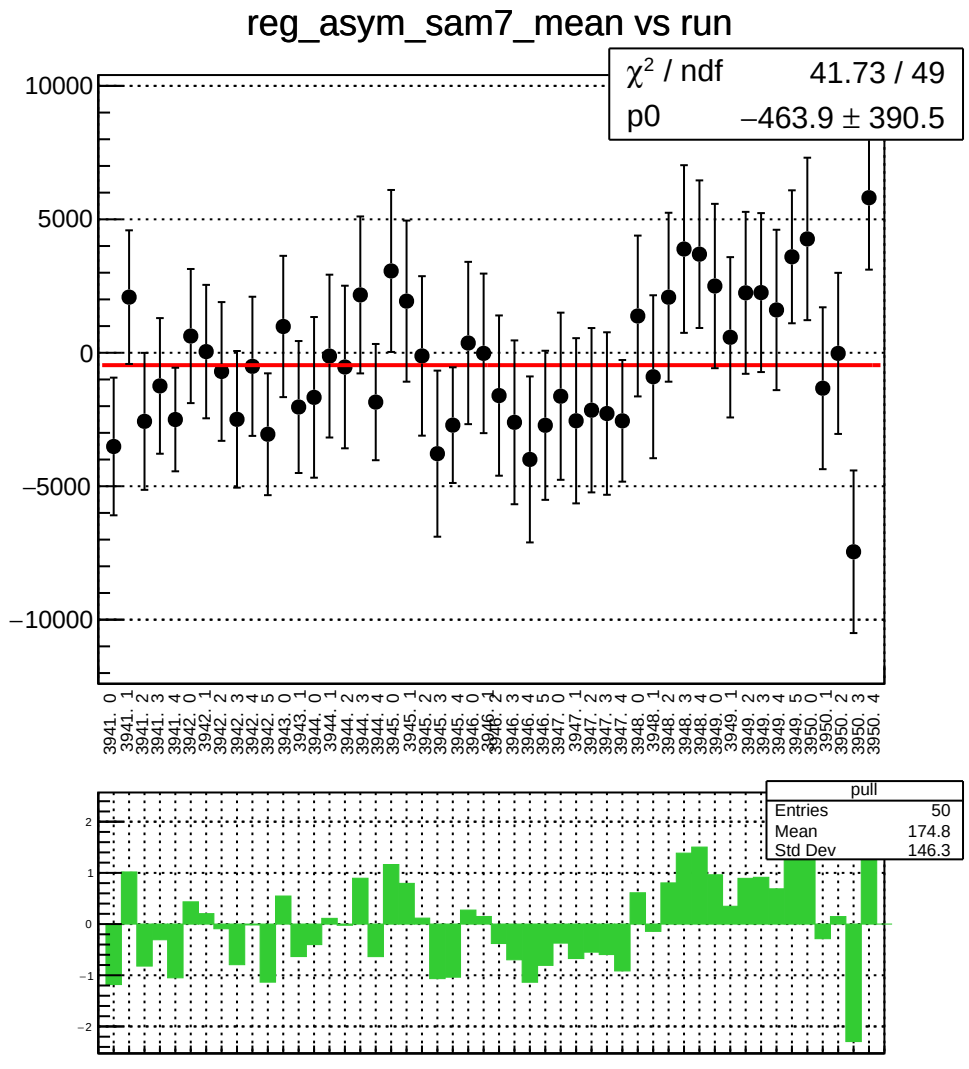

pull1D
Entries 50
Mean −0.0182
Std Dev 1.036

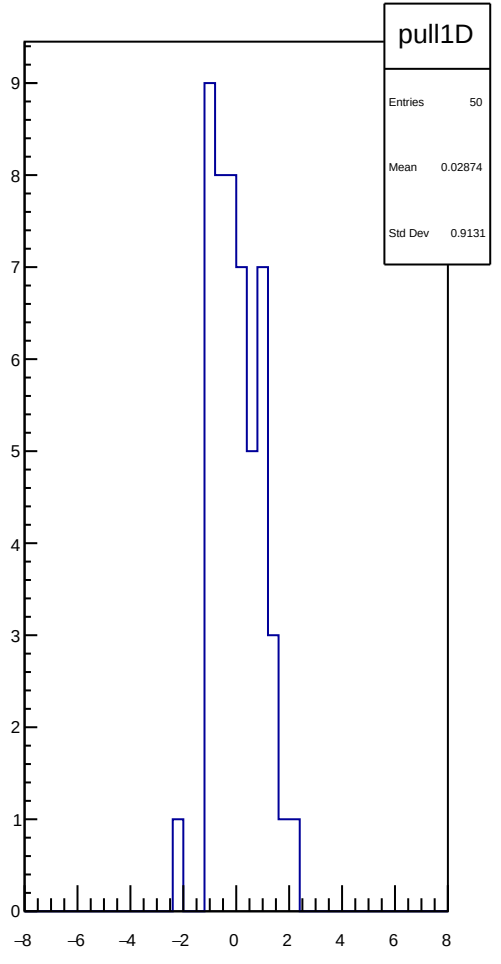

reg_asym_sam6_rms vs run
χ² / ndf 846.1 / 49
p0 485.7 ± 0.4851
530
520
510
500
490
480
470
460
450
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

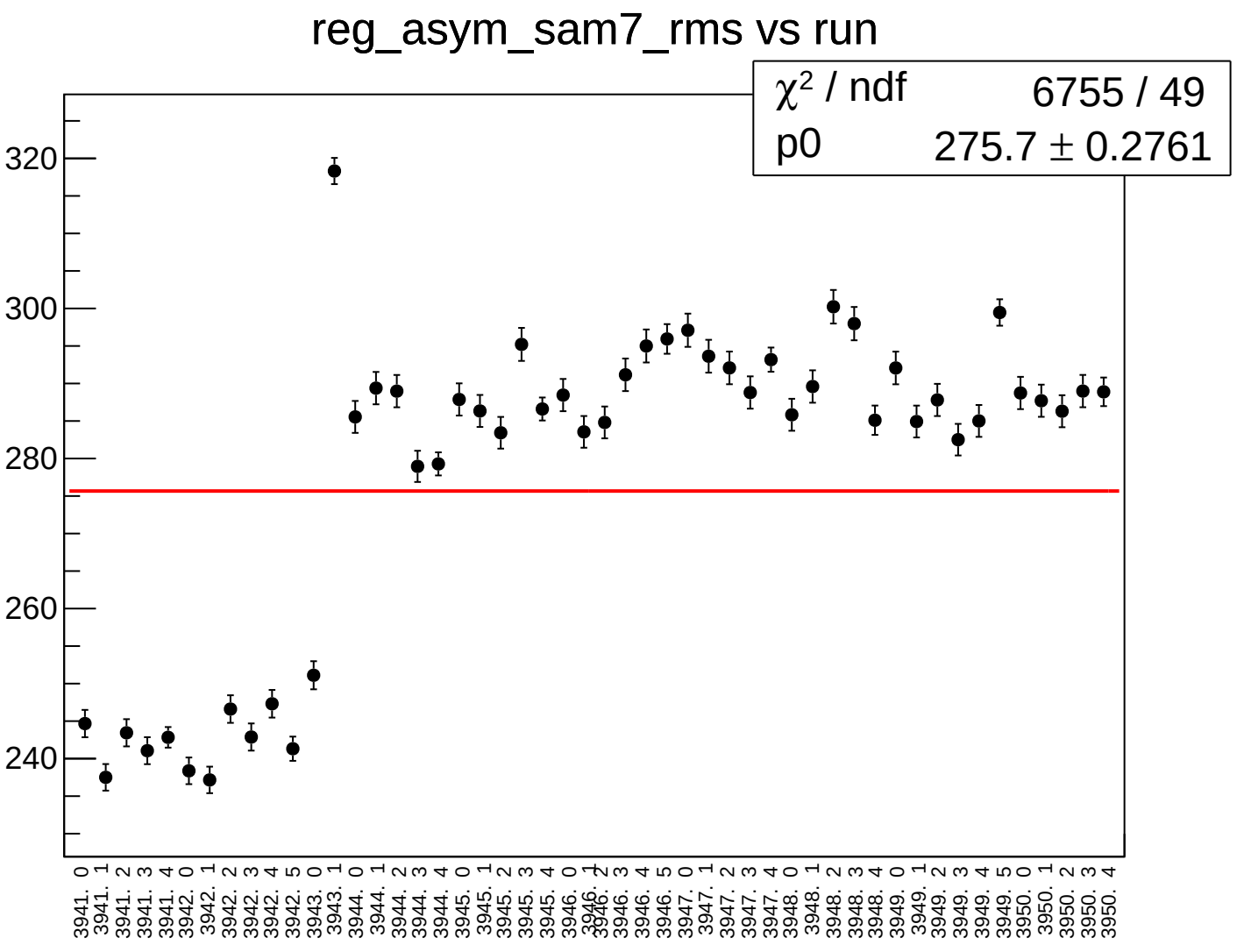

asym_sam6_correction_mean vs run
×10^3
χ^2 / ndf 41.44 / 49
p0 −2545 ± 4406
100
50
0
−50
−100
pull
Entries 50
Mean 15.37
Std Dev 27.04
2
1.5
1
0.5
0
−0.5
−1
−1.5

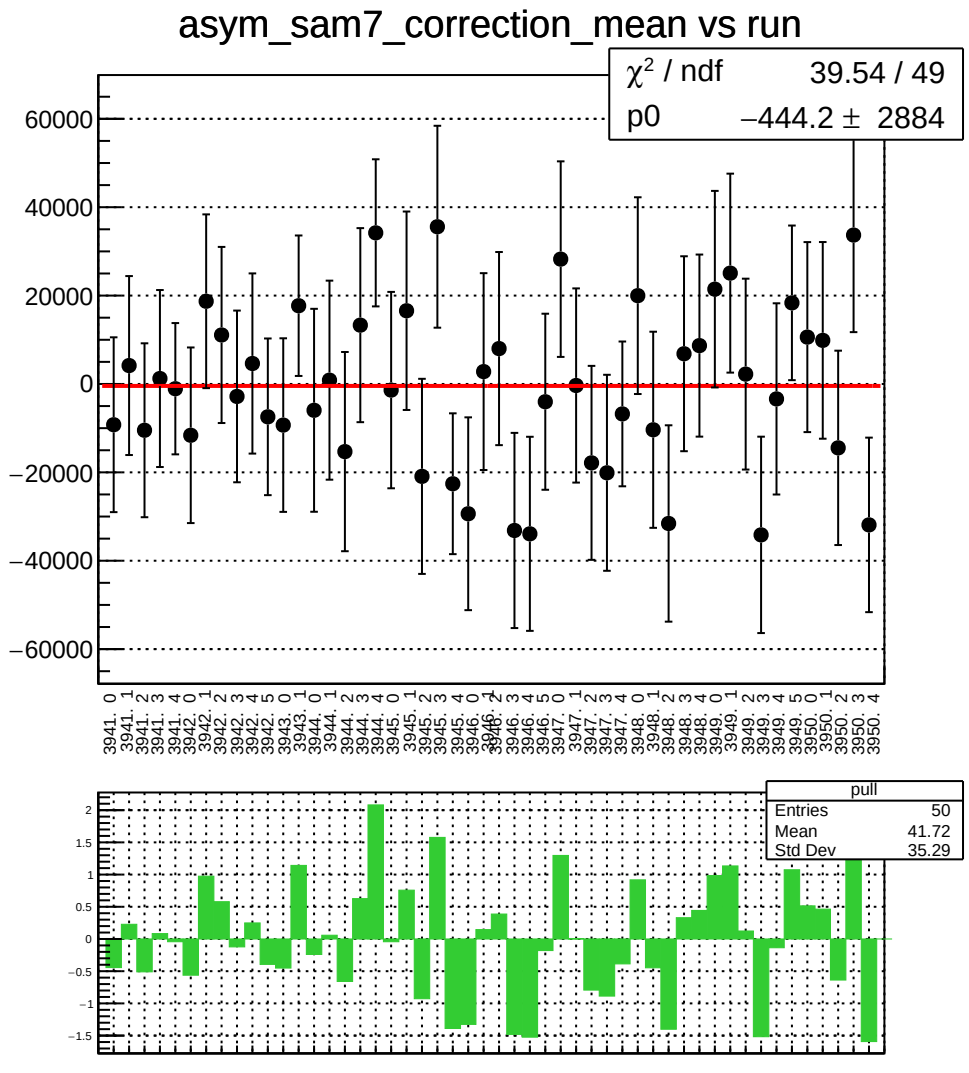

pull1D
Entries 50
Mean 0.01093
Std Dev 0.9103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

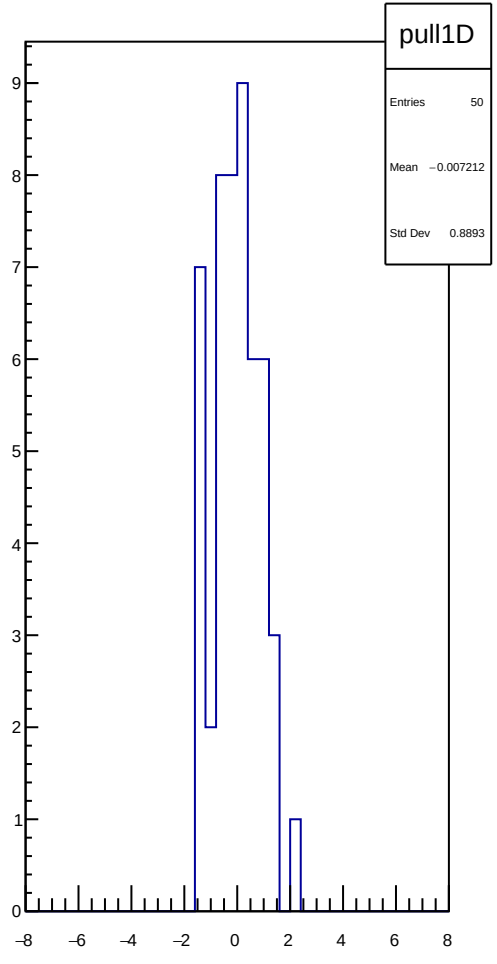

asym_sam6_correction_rms vs run
χ² / ndf 4251 / 49
p0 3115 ± 3.116
3400
3300
3200
3100
3000
2900
2800
2700
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

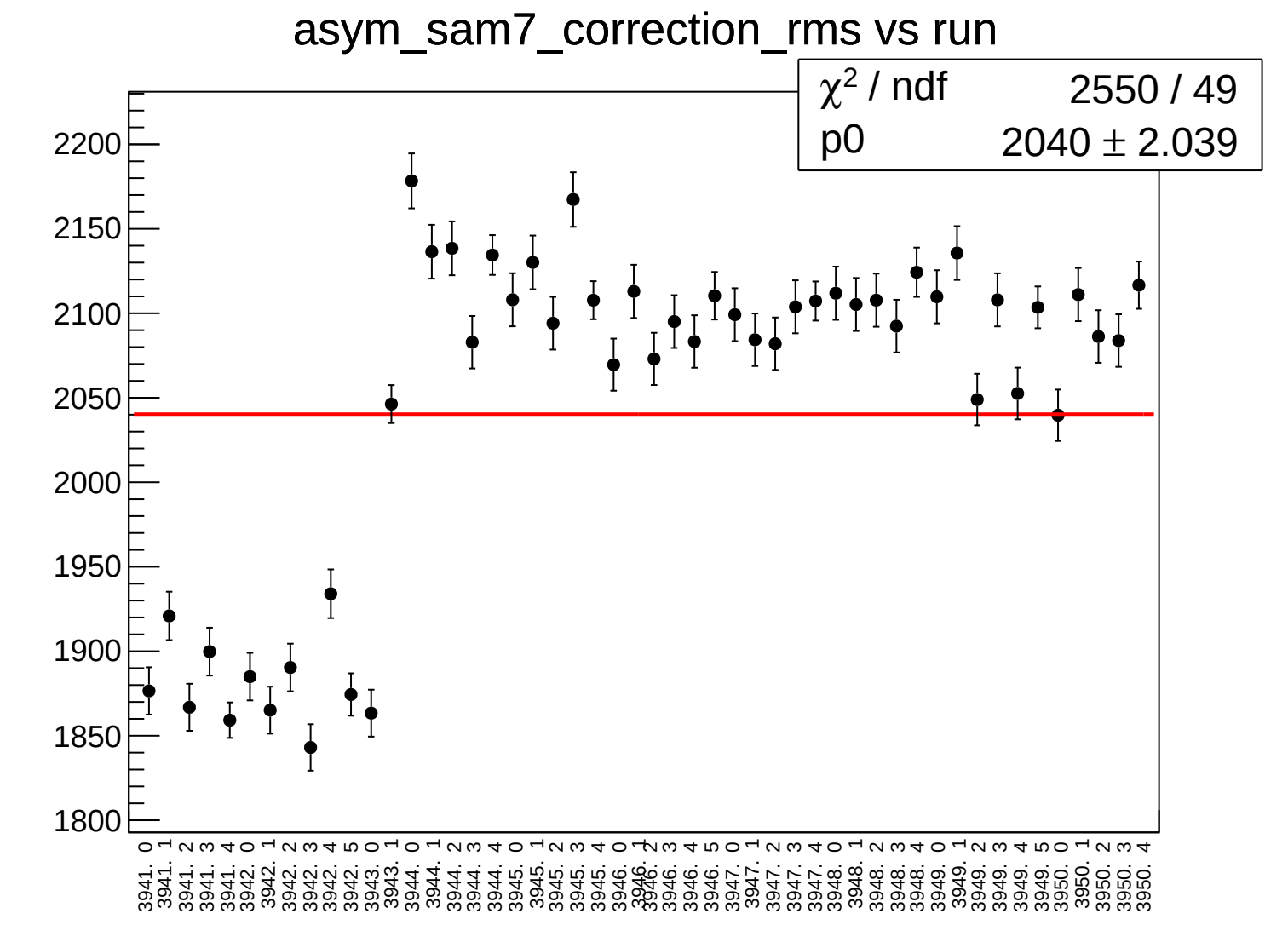

reg_asym_sam7_mean vs run
χ² / ndf 41.73 / 49
p0 −463.9 ± 390.5
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 174.8
Std Dev 146.3
2
1
0
−1
−2

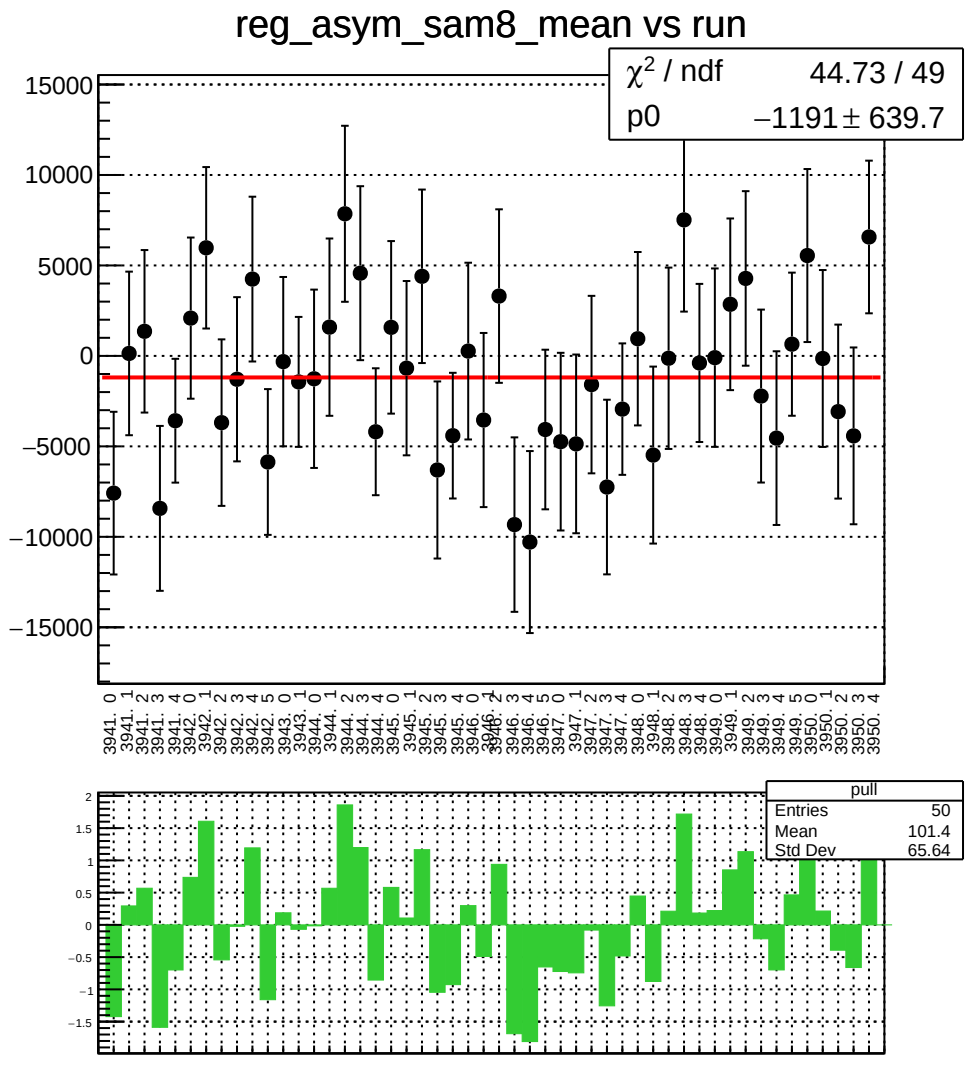

pull1D
Entries 50
Mean 0.02874
Std Dev 0.9131
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

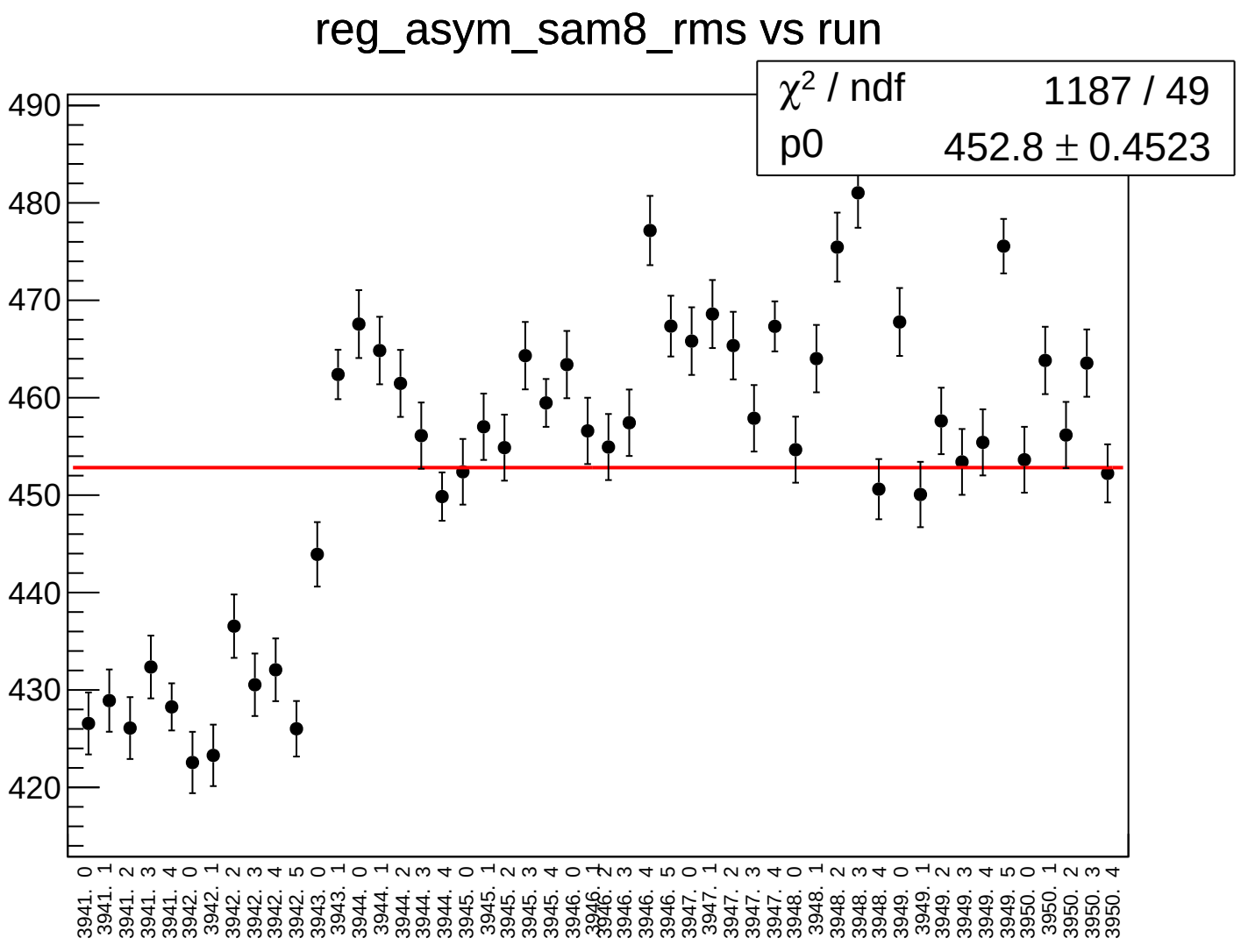

reg_asym_sam7_rms vs run
χ² / ndf 6755 / 49
p0 275.7 ± 0.2761
320
300
280
260
240
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

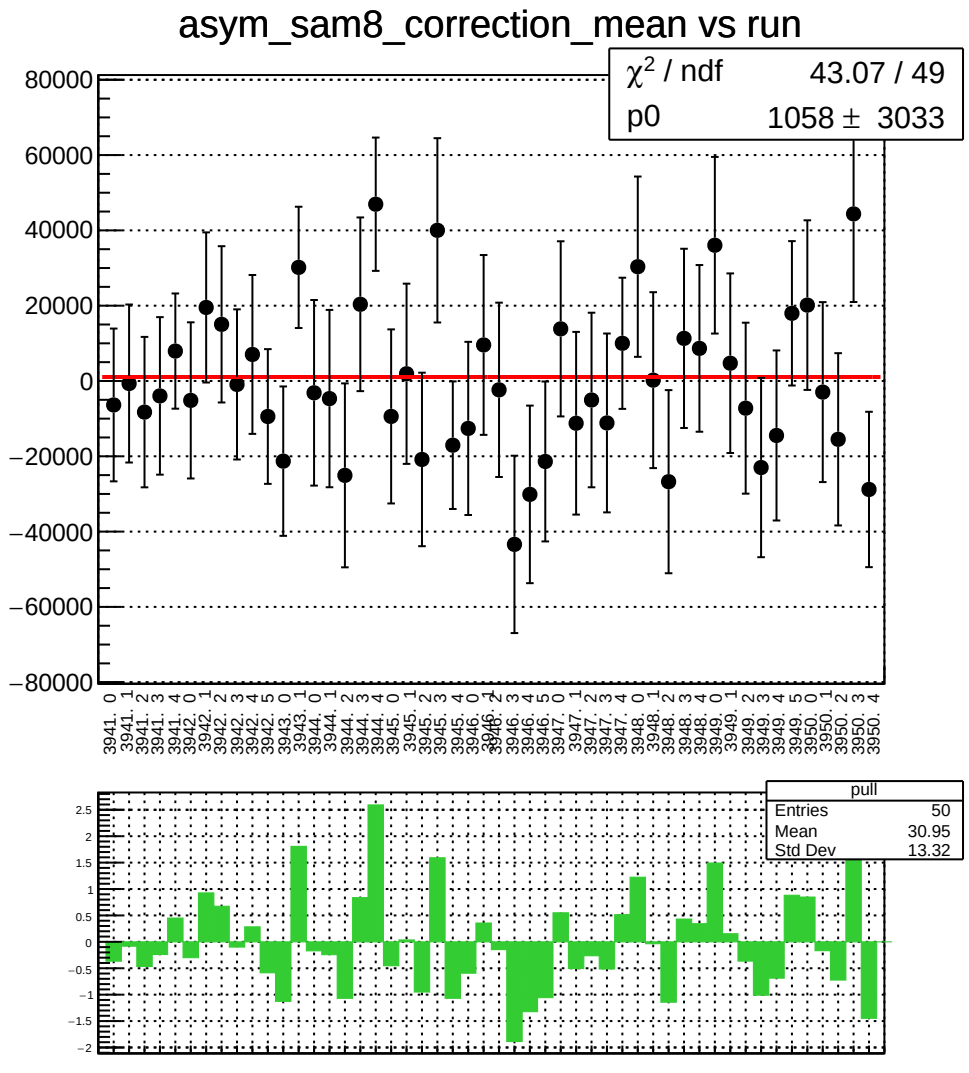

asym_sam7_correction_mean vs run
χ² / ndf 39.54 / 49
p0 −444.2 ± 2884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean 41.72
Std Dev 35.29
2
1.5
1
0.5
0
−0.5
−1
−1.5

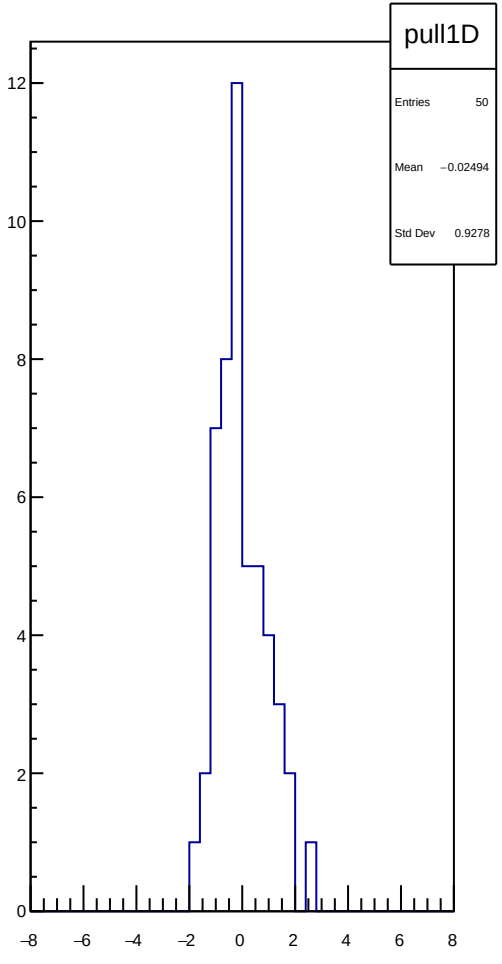

pull1D
Entries 50
Mean −0.007212
Std Dev 0.8893
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

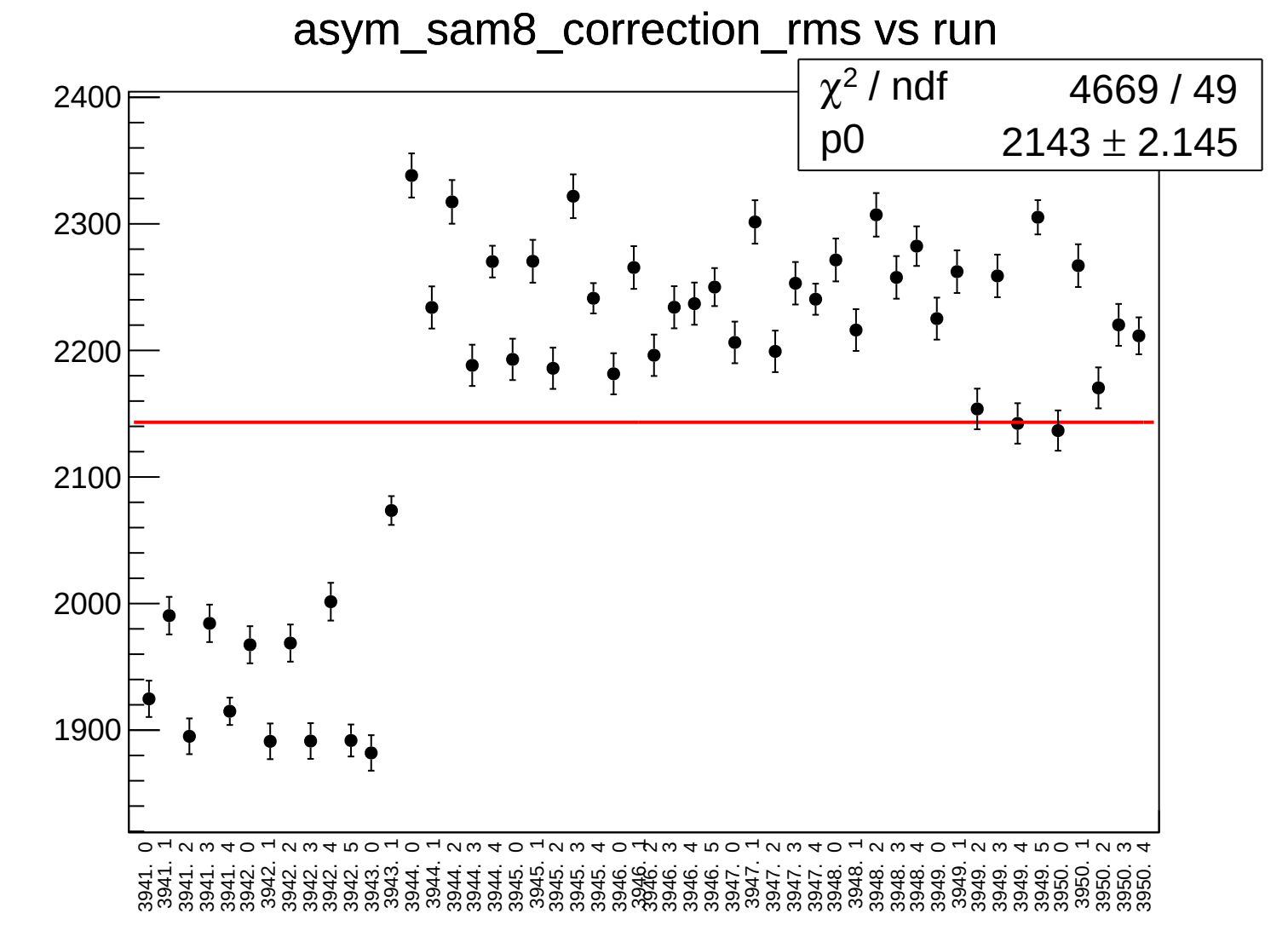

asym_sam7_correction_rms vs run
χ² / ndf 2550 / 49
p0 2040 ± 2.039
2200
2150
2100
2050
2000
1950
1900
1850
1800
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

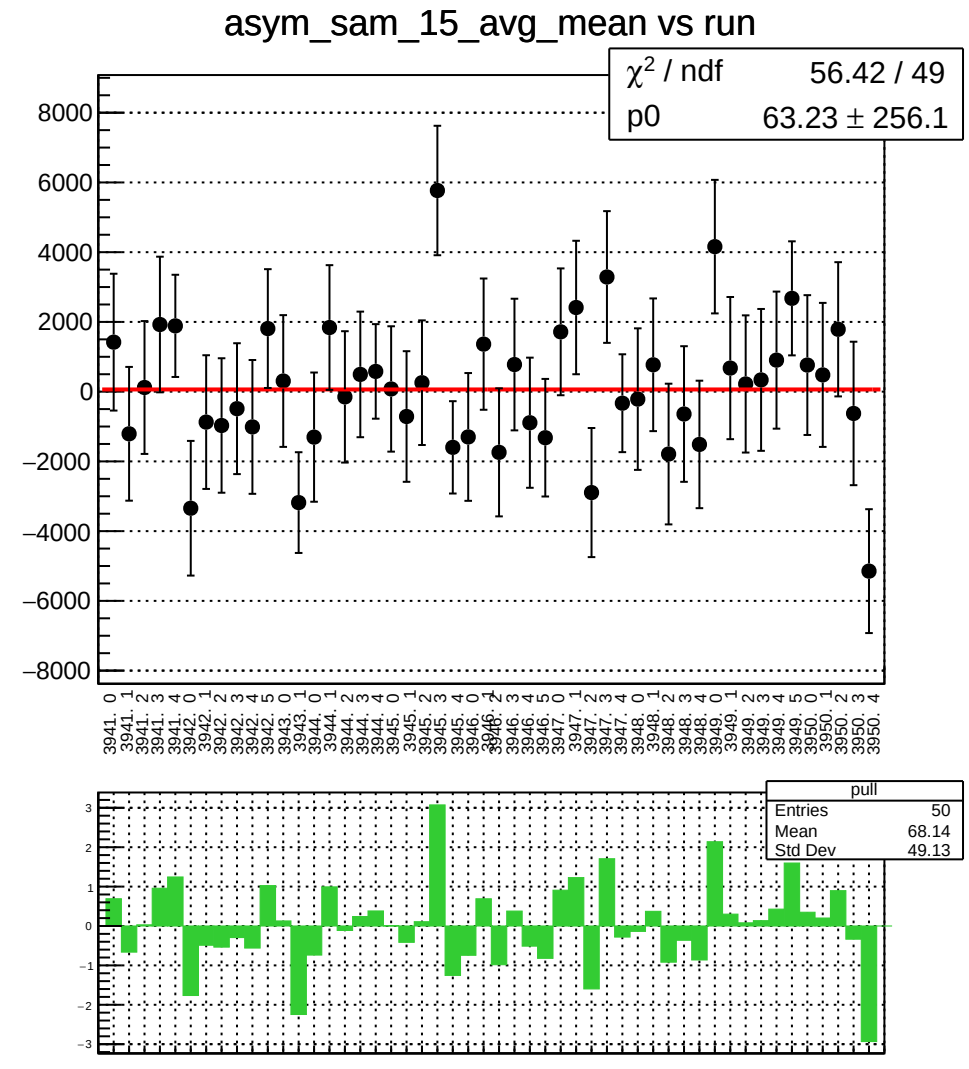

reg_asym_sam8_mean vs run
χ² / ndf 44.73 / 49
p0 −1191 ± 639.7
15000
10000
5000
0
−5000
−10000
−15000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 101.4
Std Dev 65.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.01778
Std Dev 0.9457
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

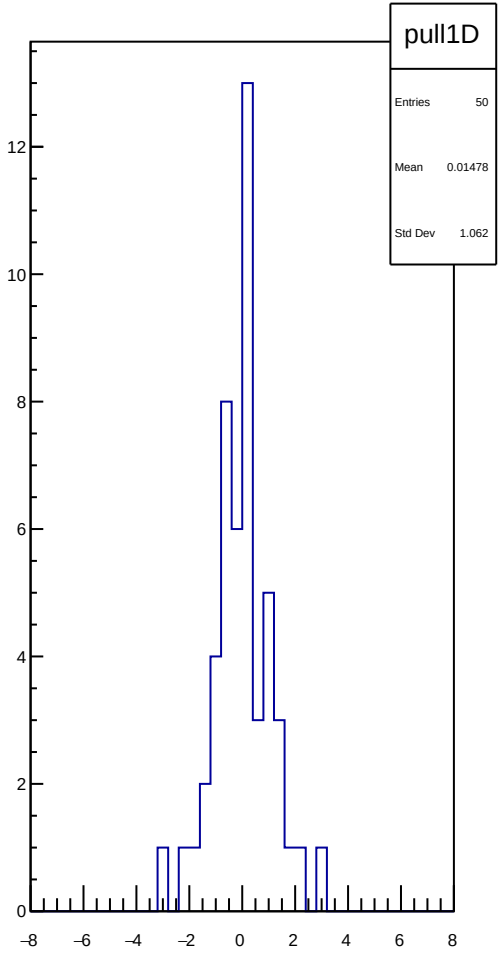

reg_asym_sam8_rms vs run
χ² / ndf 1187 / 49
p0 452.8 ± 0.4523
490
480
470
460
450
440
430
420
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

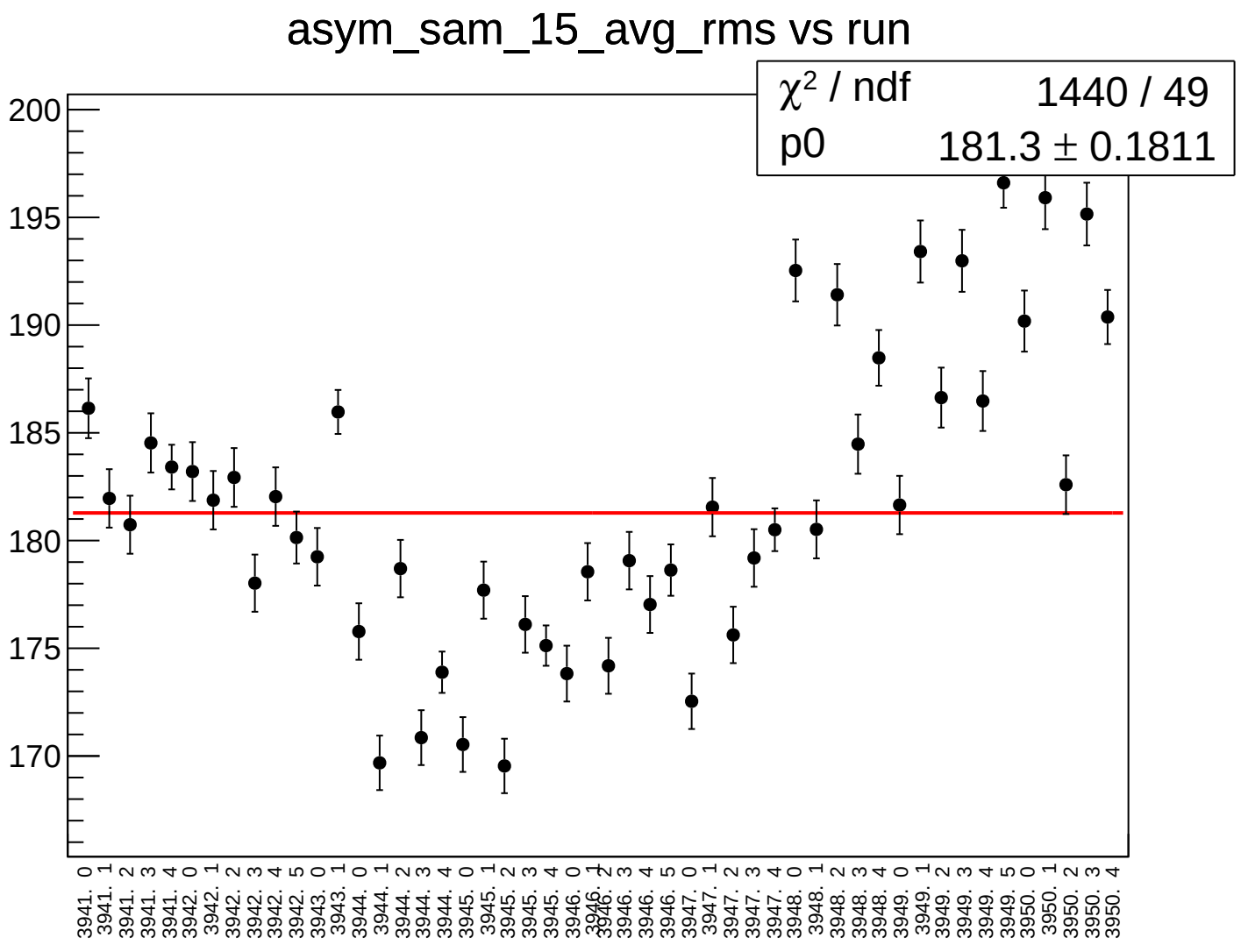

asym_sam8_correction_mean vs run
χ² / ndf 43.07 / 49
p0 1058 ± 3033
pull
Entries 50
Mean 30.95
Std Dev 13.32

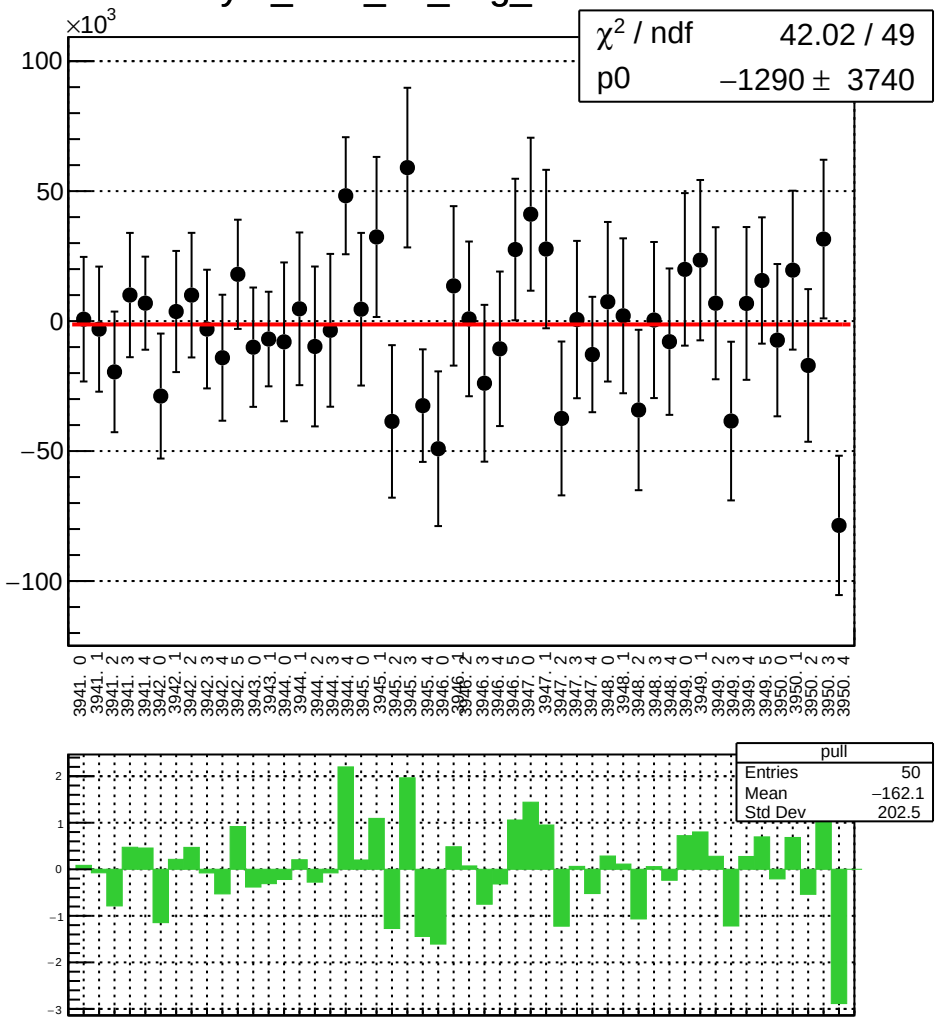

pull1D
Entries 50
Mean −0.02494
Std Dev 0.9278

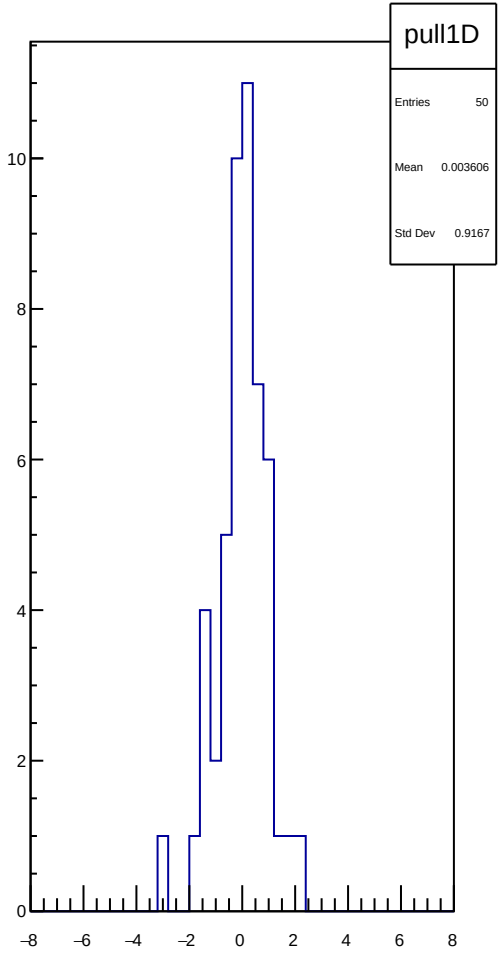

asym_sam8_correction_rms vs run
χ² / ndf 4669 / 49
p0 2143 ± 2.145
2400
2300
2200
2100
2000
1900
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

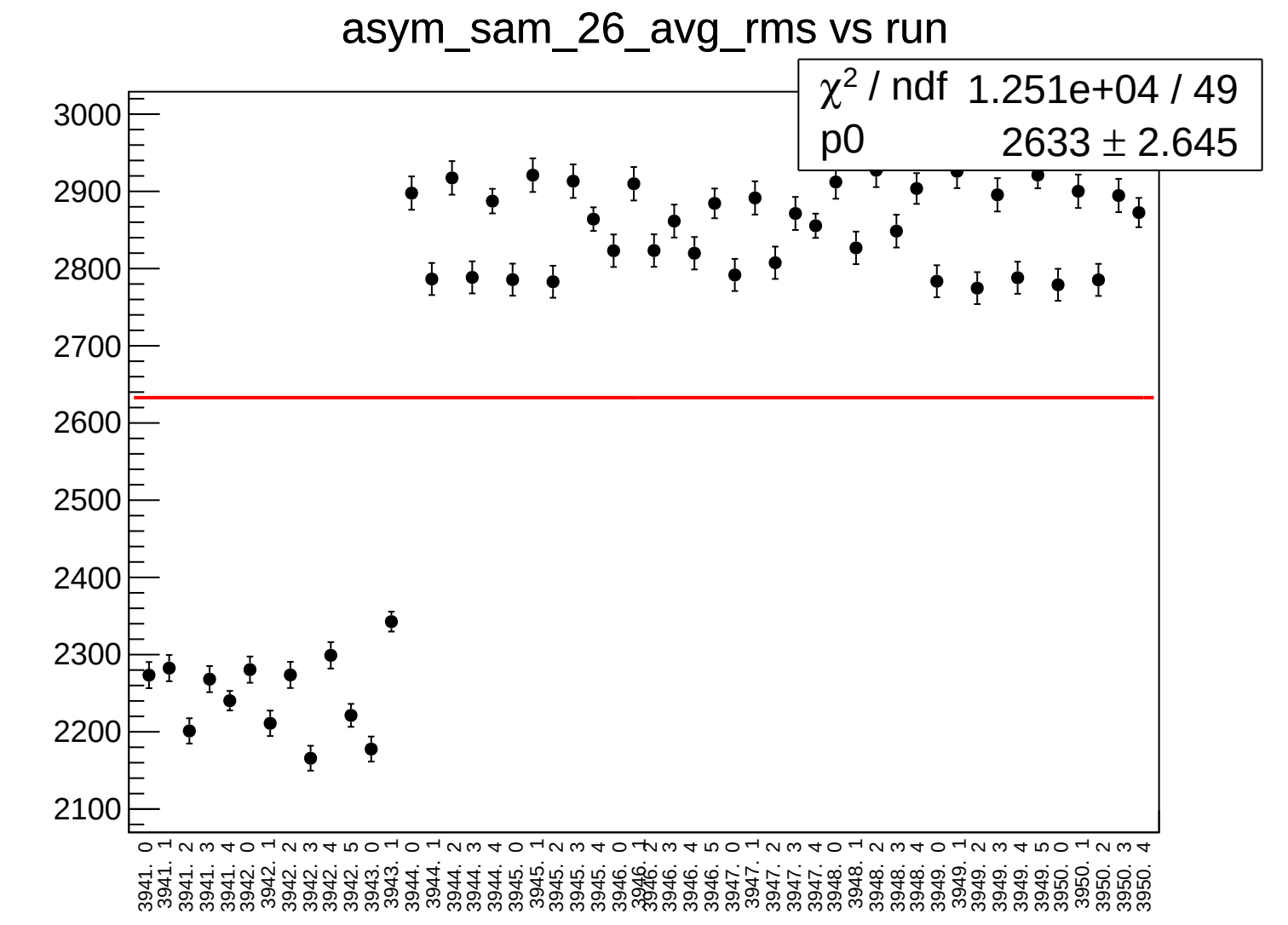

asym_sam_15_avg_mean vs run
χ² / ndf 56.42 / 49
p0 63.23 ± 256.1
pull
Entries 50
Mean 68.14
Std Dev 49.13


pull1D
Entries 50
Mean 0.01478
Std Dev 1.062


asym_sam_15_avg_rms vs run
χ² / ndf 1440 / 49
p0 181.3 ± 0.1811
200
195
190
185
180
175
170
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 42.02 / 49
p0 −1290 ± 3740
100
50
0
−50
−100
pull
Entries 50
Mean −162.1
Std Dev 202.5
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.003606
Std Dev 0.9167
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_rms vs run
χ² / ndf 1.251e+04 / 49
p0 2633 ± 2.645
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 4
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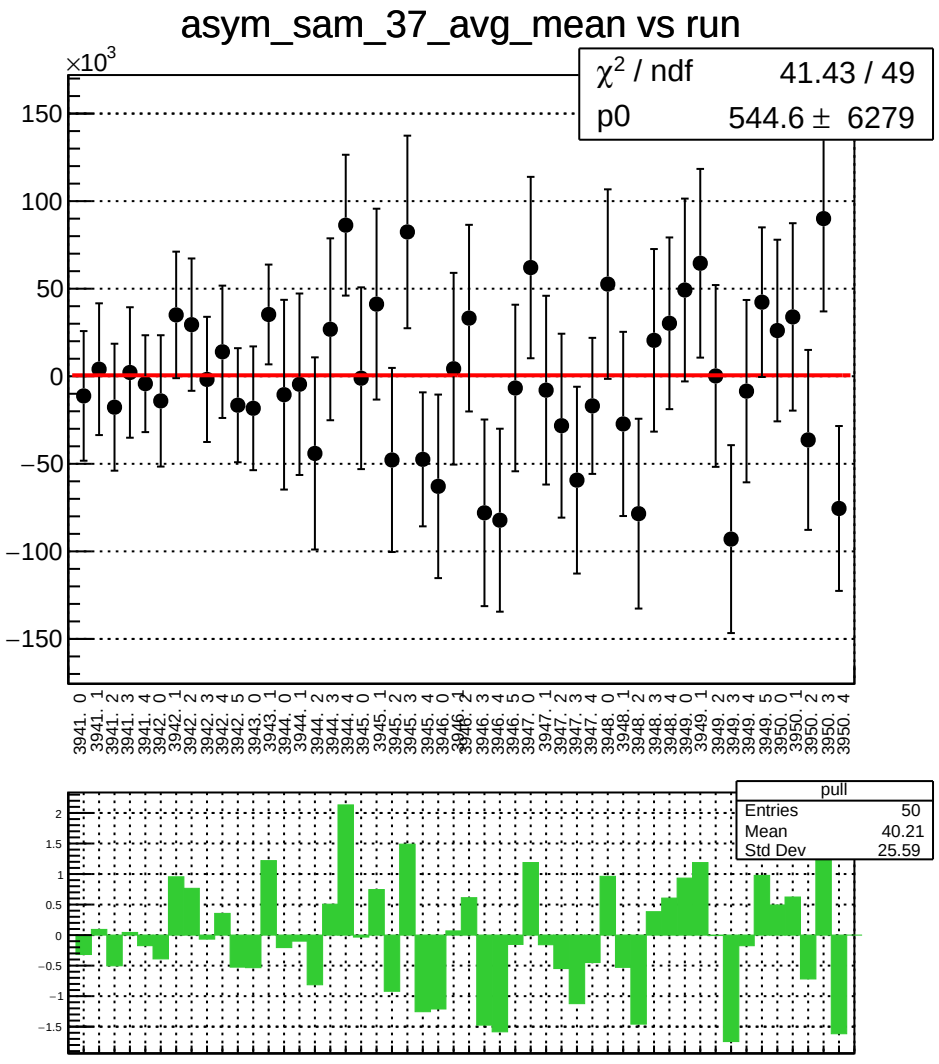
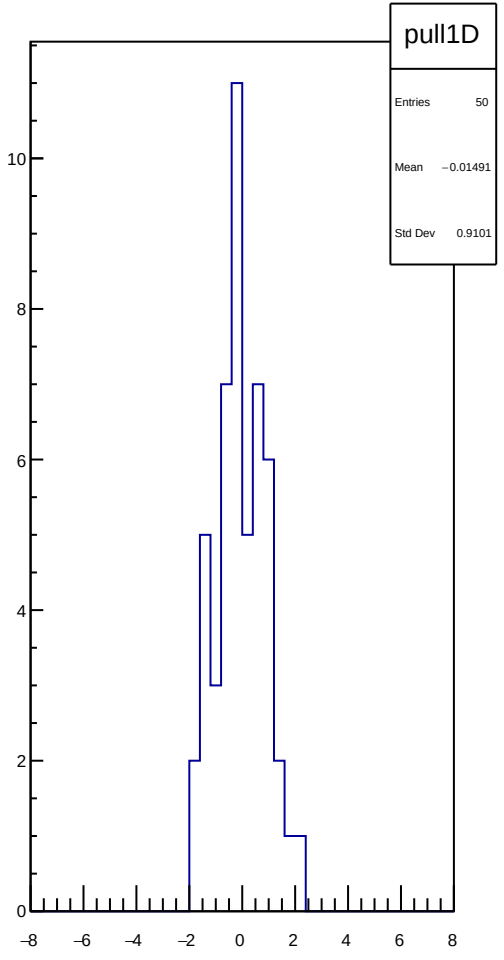
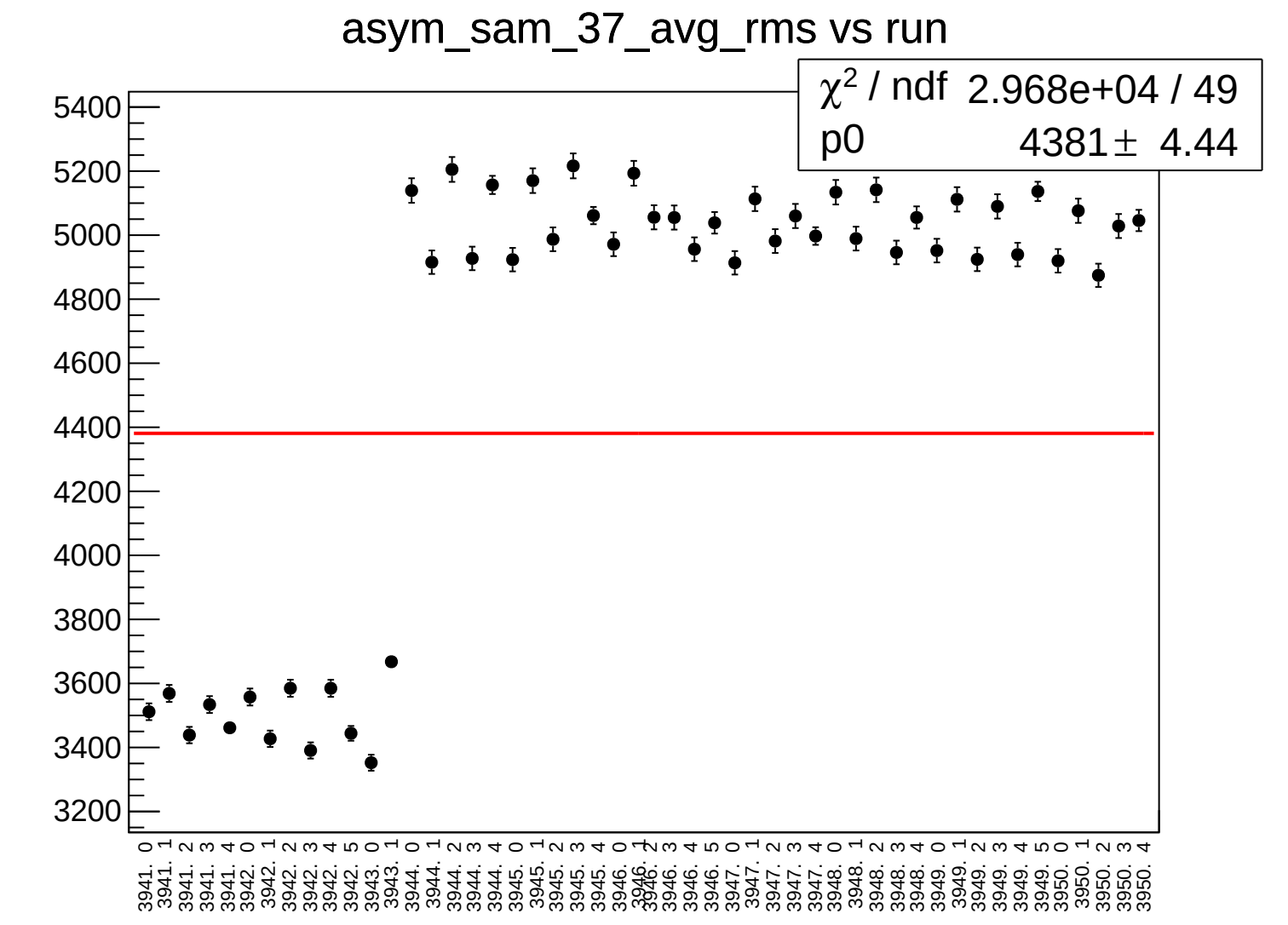
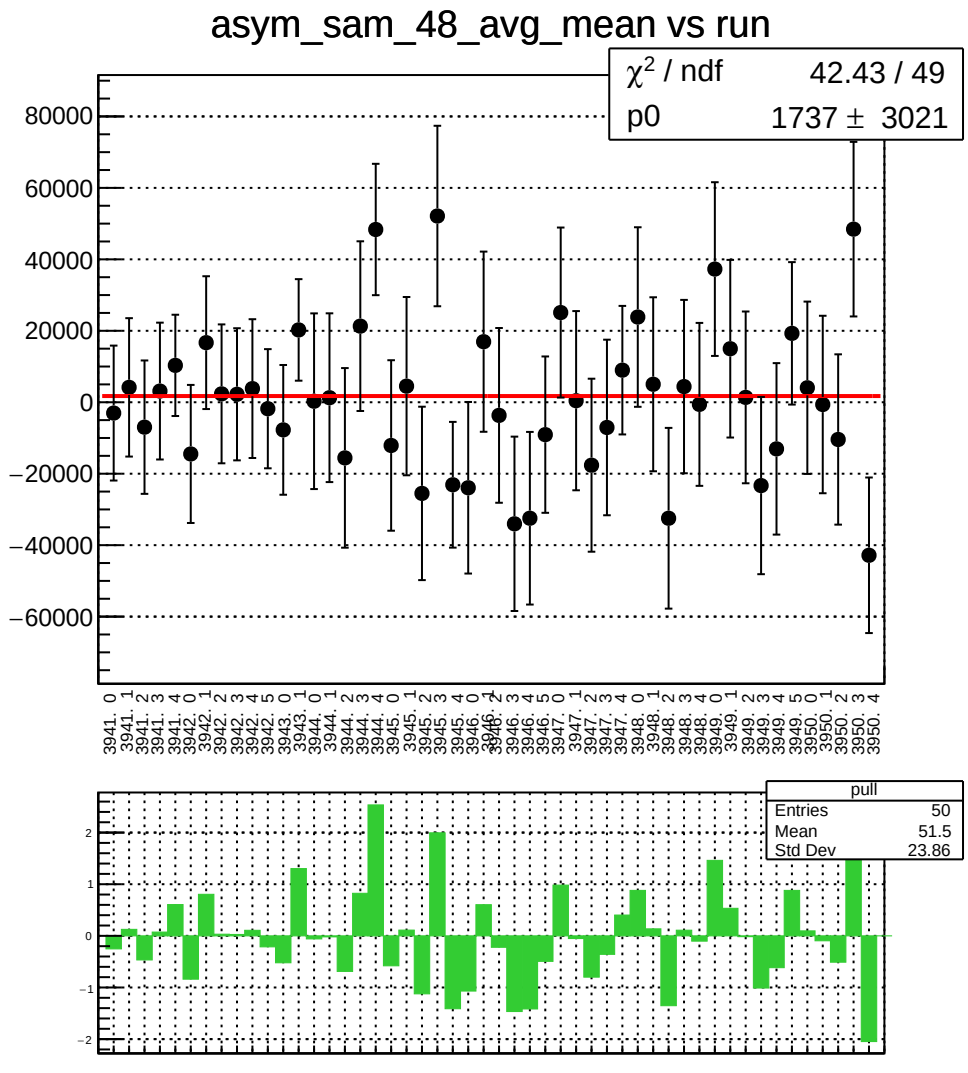
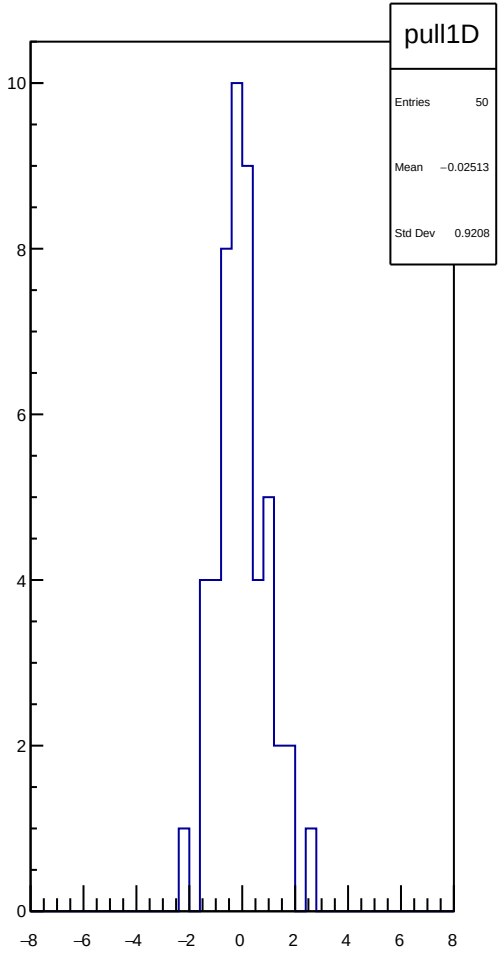
3950. 3
3950. 4

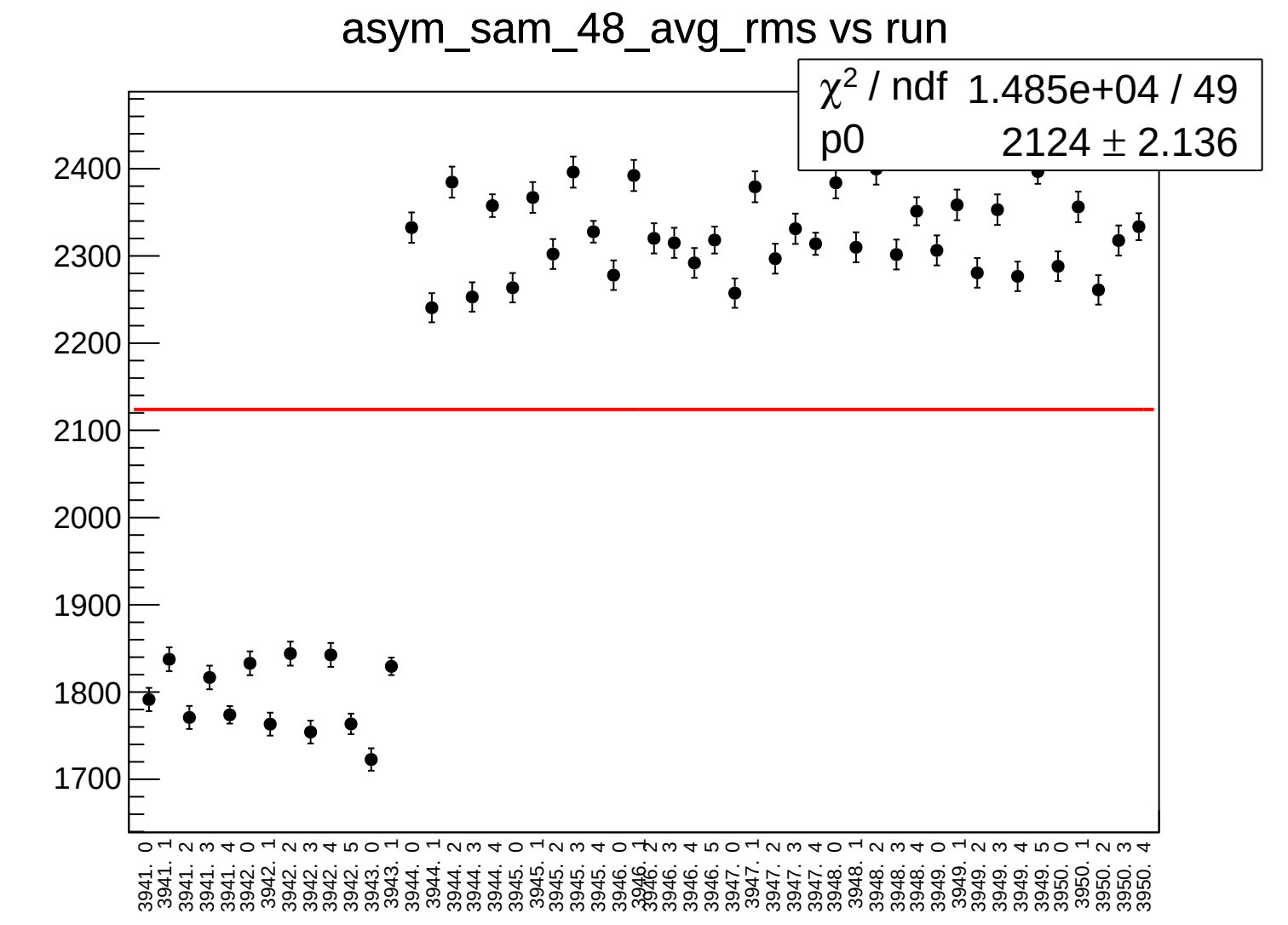

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 41.43 / 49
p0 544.6 ± 6279
150
100
50
0
−50
−100
−150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 40.21
Std Dev 25.59
2
1.5
1
0.5
0
−0.5
−1
−1.5

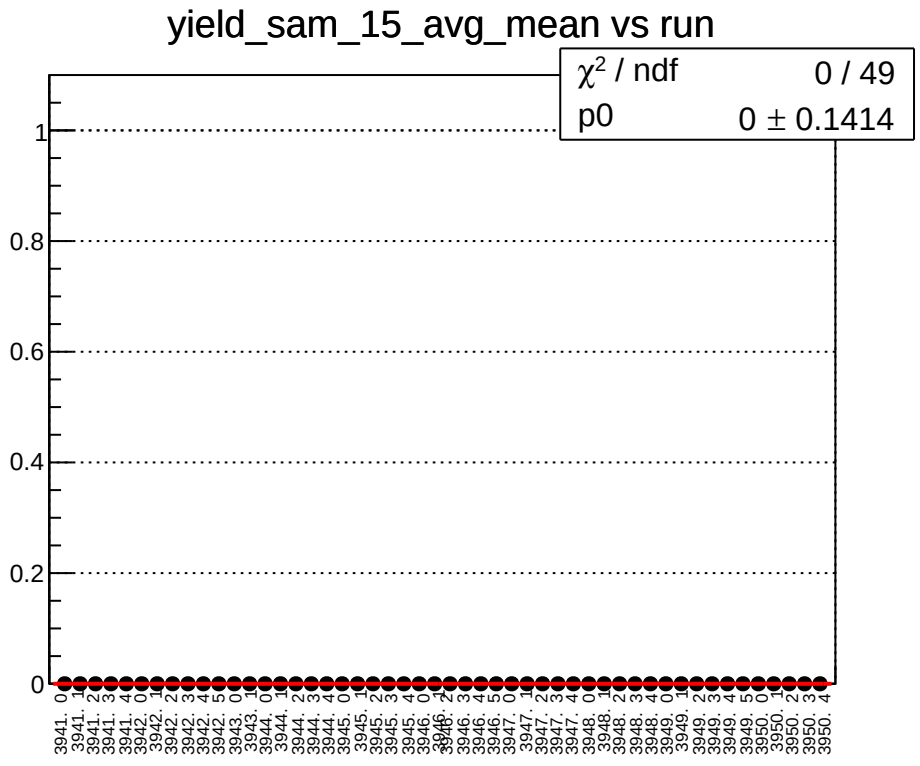

pull1D
Entries 50
Mean −0.01491
Std Dev 0.9101
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

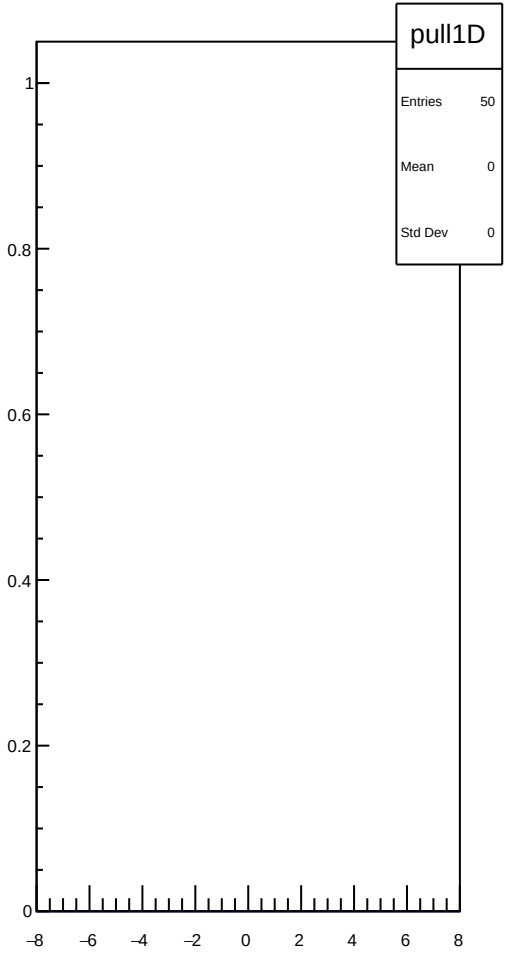

asym_sam_37_avg_rms vs run
χ² / ndf 2.968e+04 / 49
p0 4381 ± 4.44
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

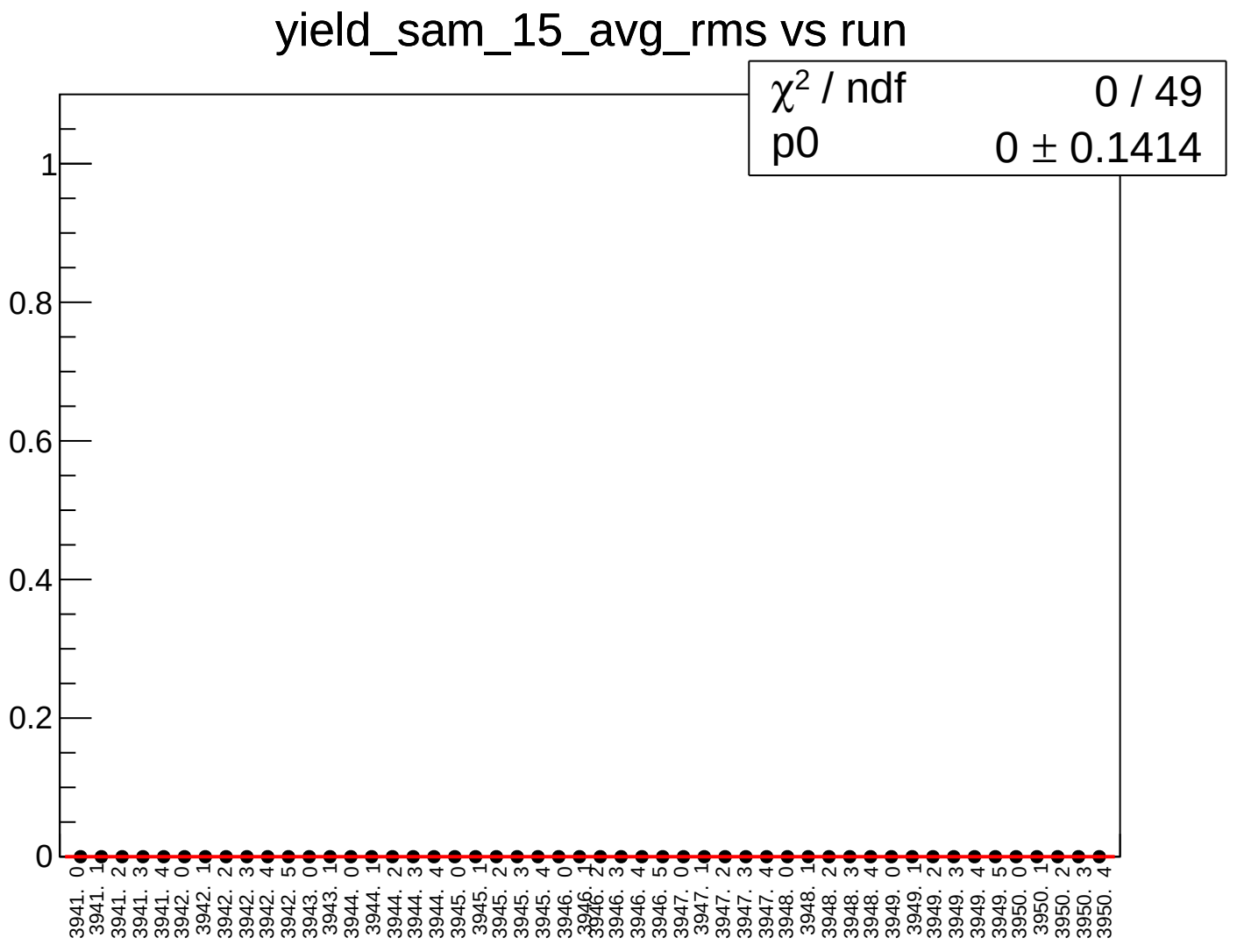

asym_sam_48_avg_mean vs run
χ² / ndf 42.43 / 49
p0 1737 ± 3021
pull
Entries 50
Mean 51.5
Std Dev 23.86


pull1D
Entries 50
Mean −0.02513
Std Dev 0.9208


asym_sam_48_avg_rms vs run
χ² / ndf 1.485e+04 / 49
p0 2124 ± 2.136
2400
2300
2200
2100
2000
1900
1800
1700
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


yield_sam_15_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
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_sam_15_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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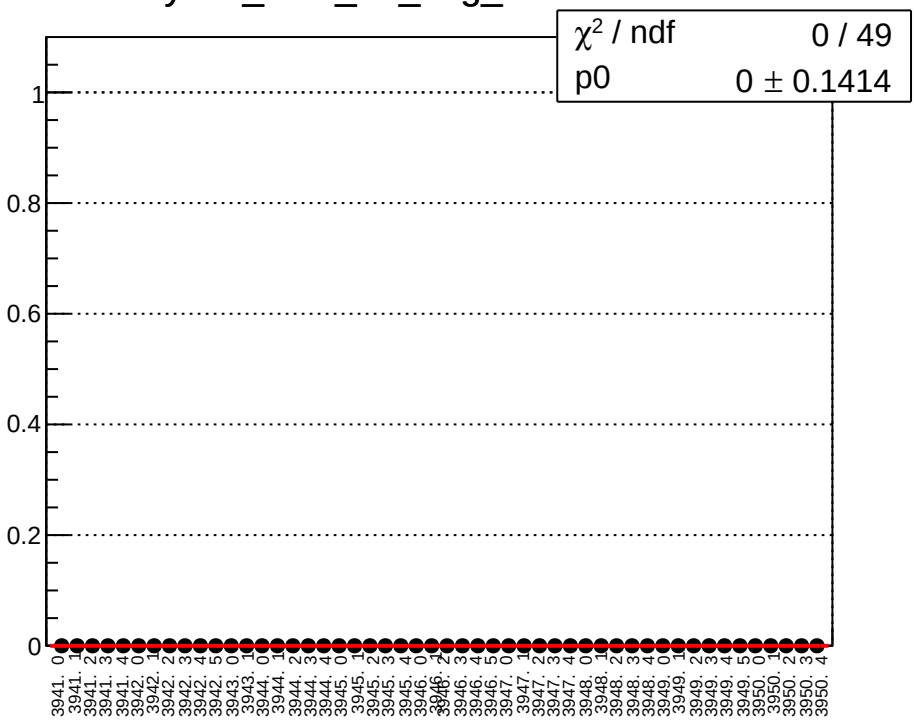
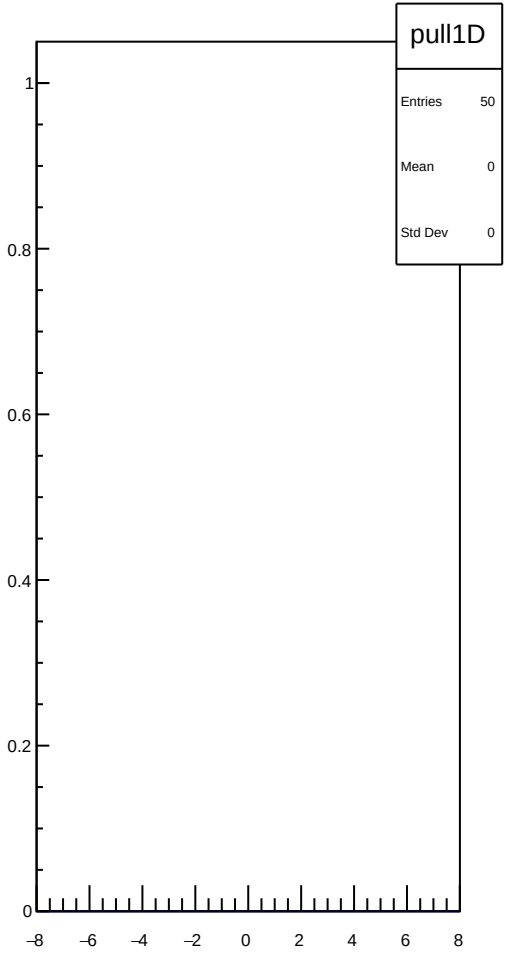
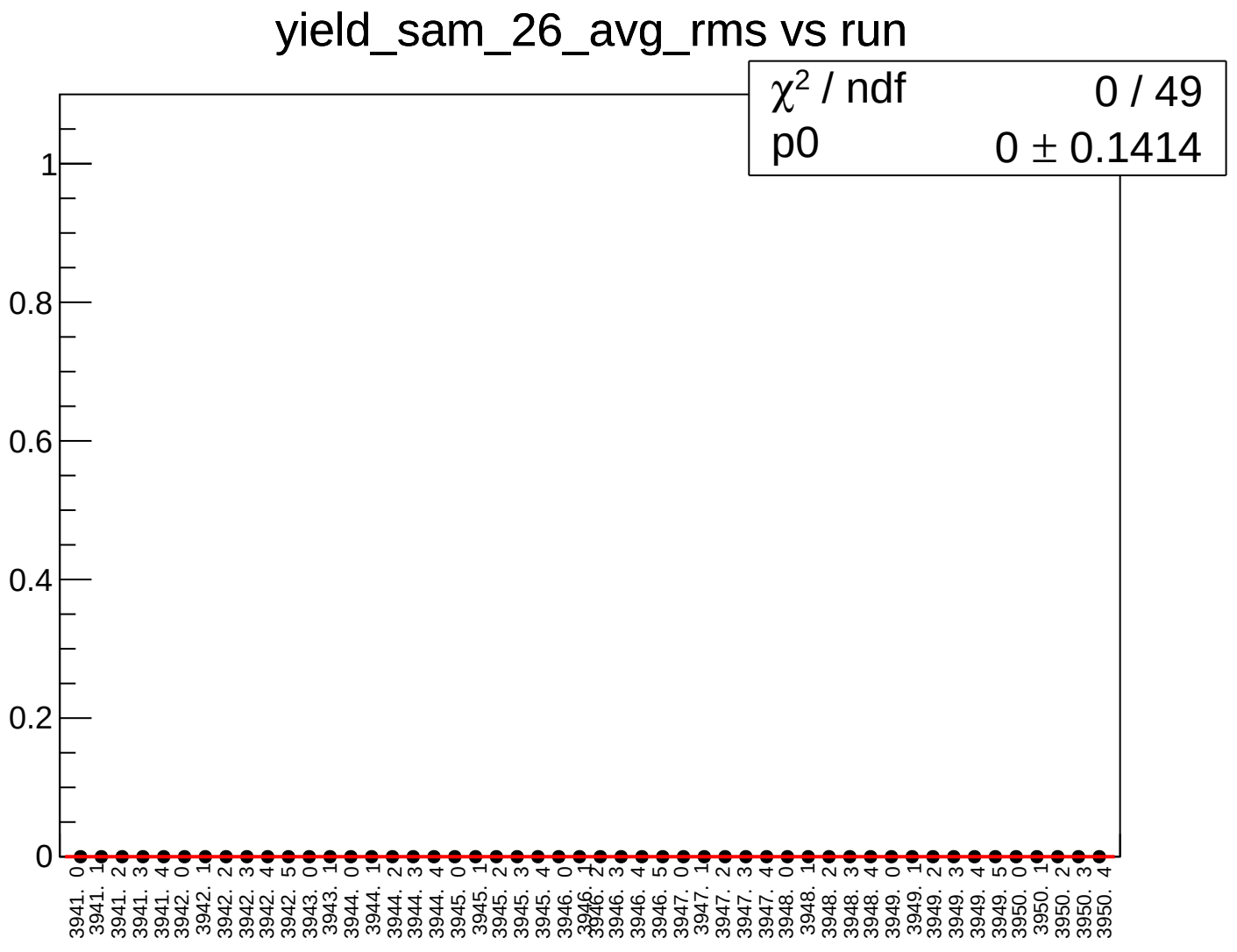
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


yield_sam_26_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
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_sam_26_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
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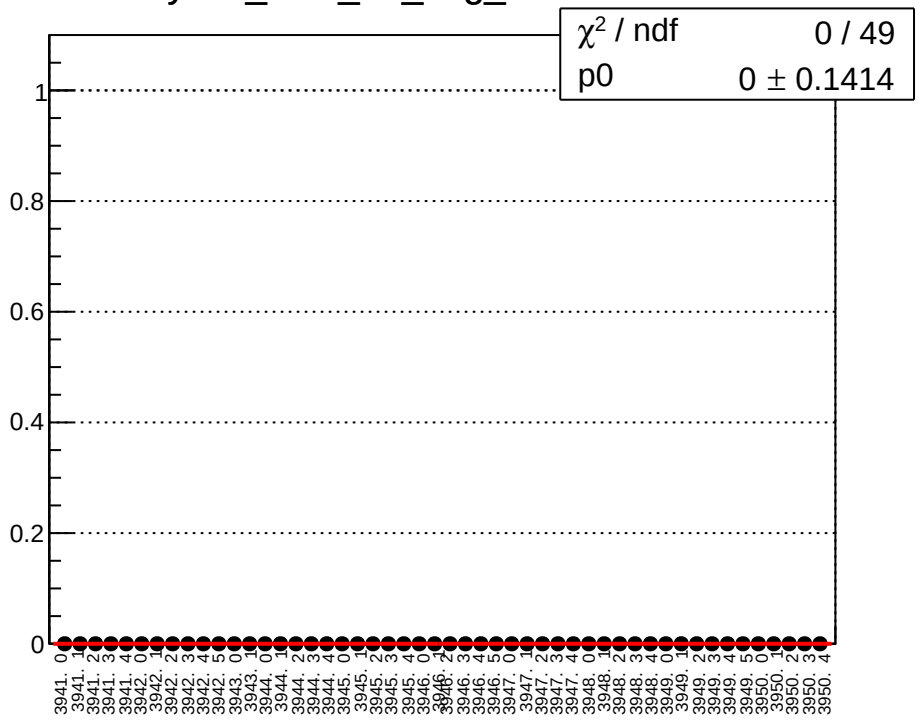
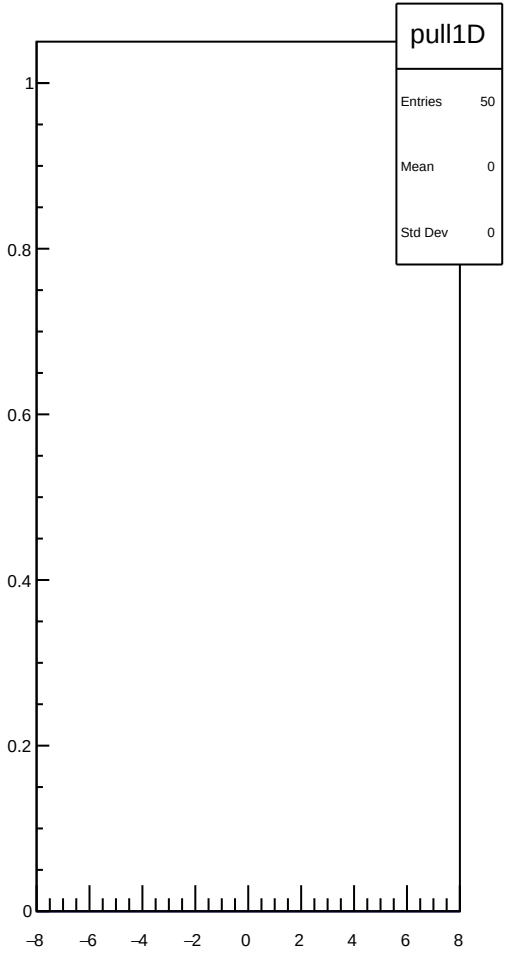
3950. 1
3950. 2
3950. 3
3950. 4


yield_sam_37_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
Mean 0
Std Dev 0
1
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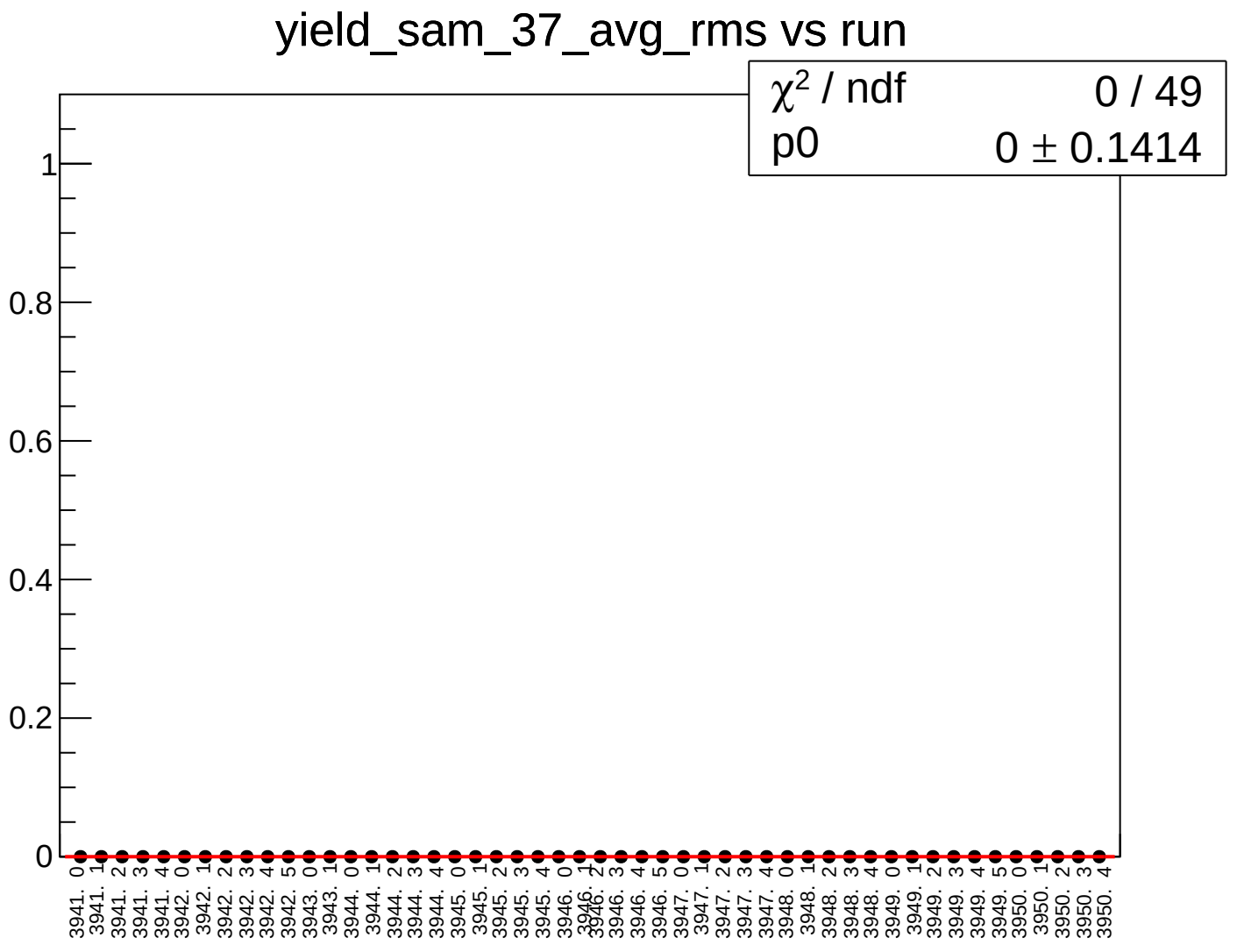
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


yield_sam_37_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
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3942. 4
3942. 5
3943. 0
3943. 1
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3945. 1
3945. 2
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3945. 4
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3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
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3948. 1
3948. 2
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3948. 4
3949. 0
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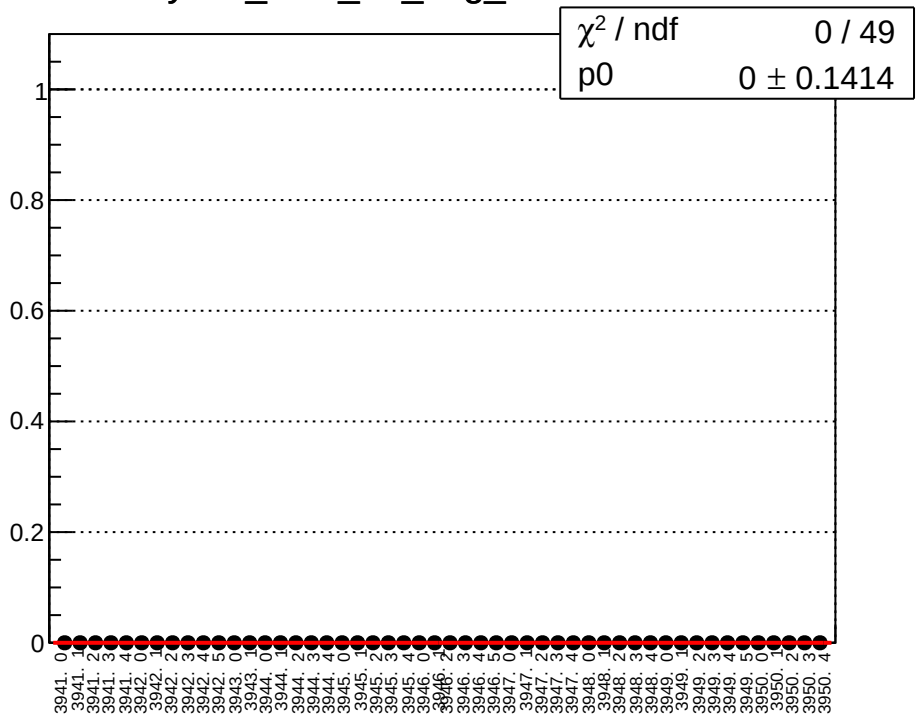
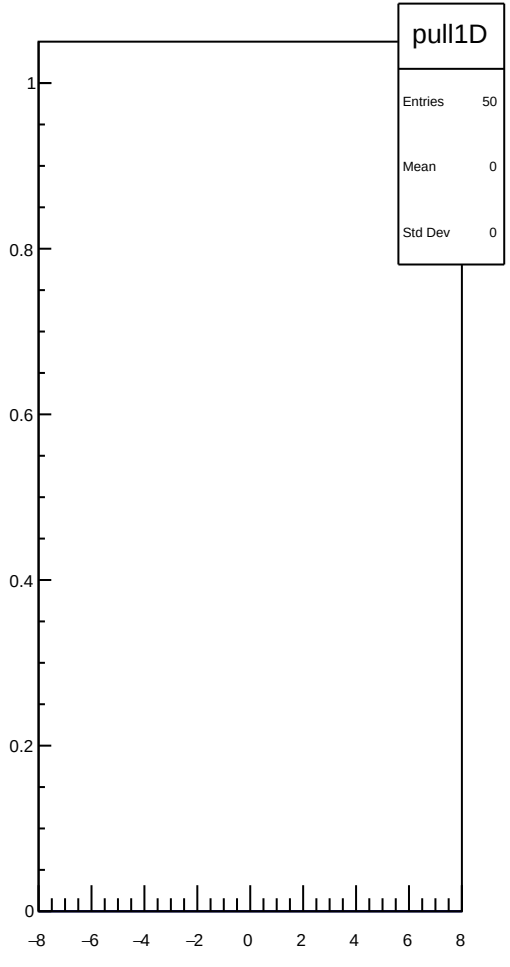
3950. 4


yield_sam_48_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
Mean 0
Std Dev 0
1
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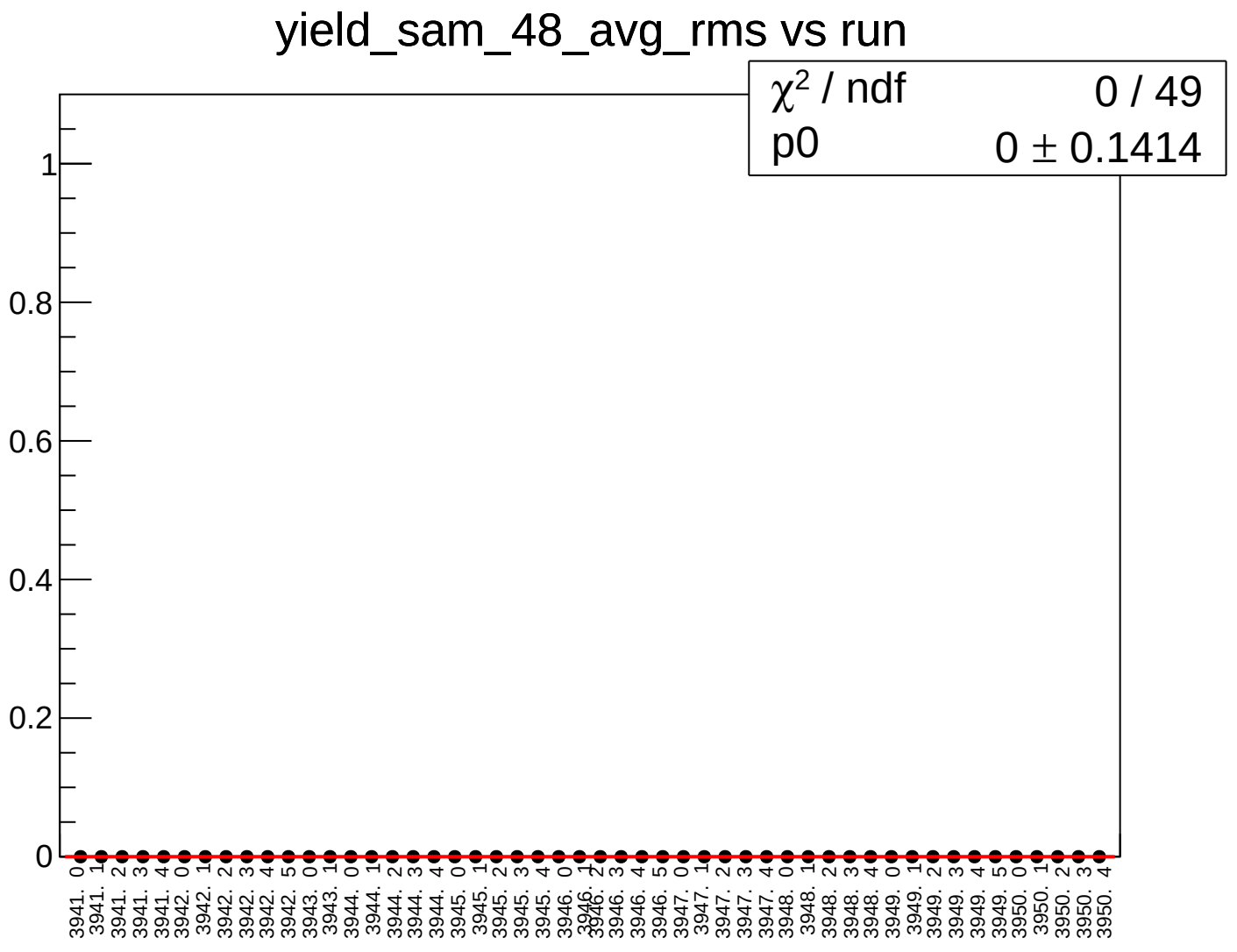
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


yield_sam_48_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
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3942. 5
3943. 0
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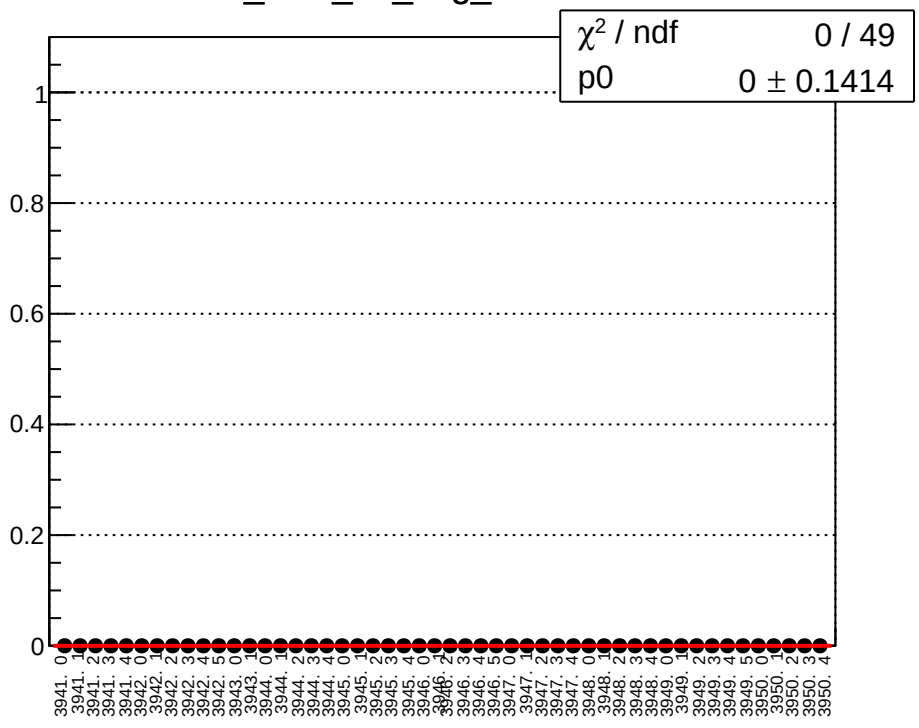
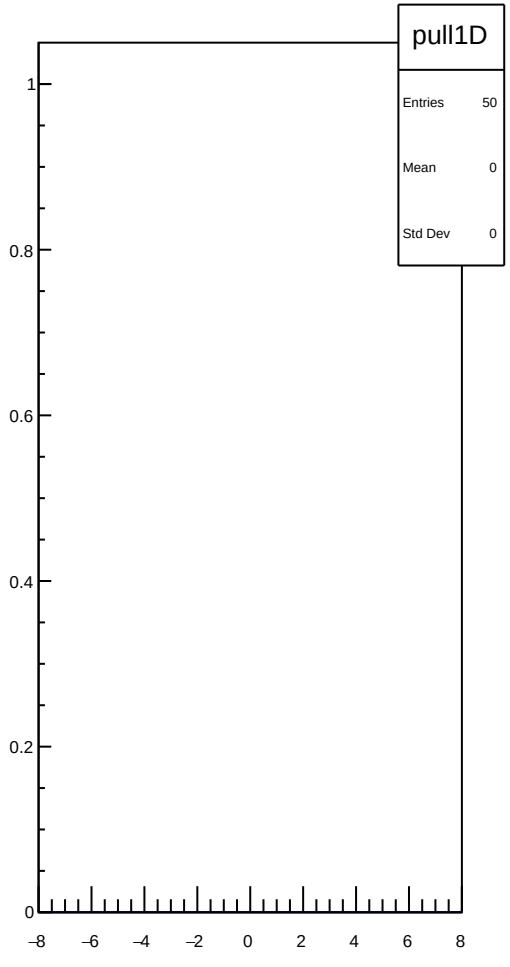
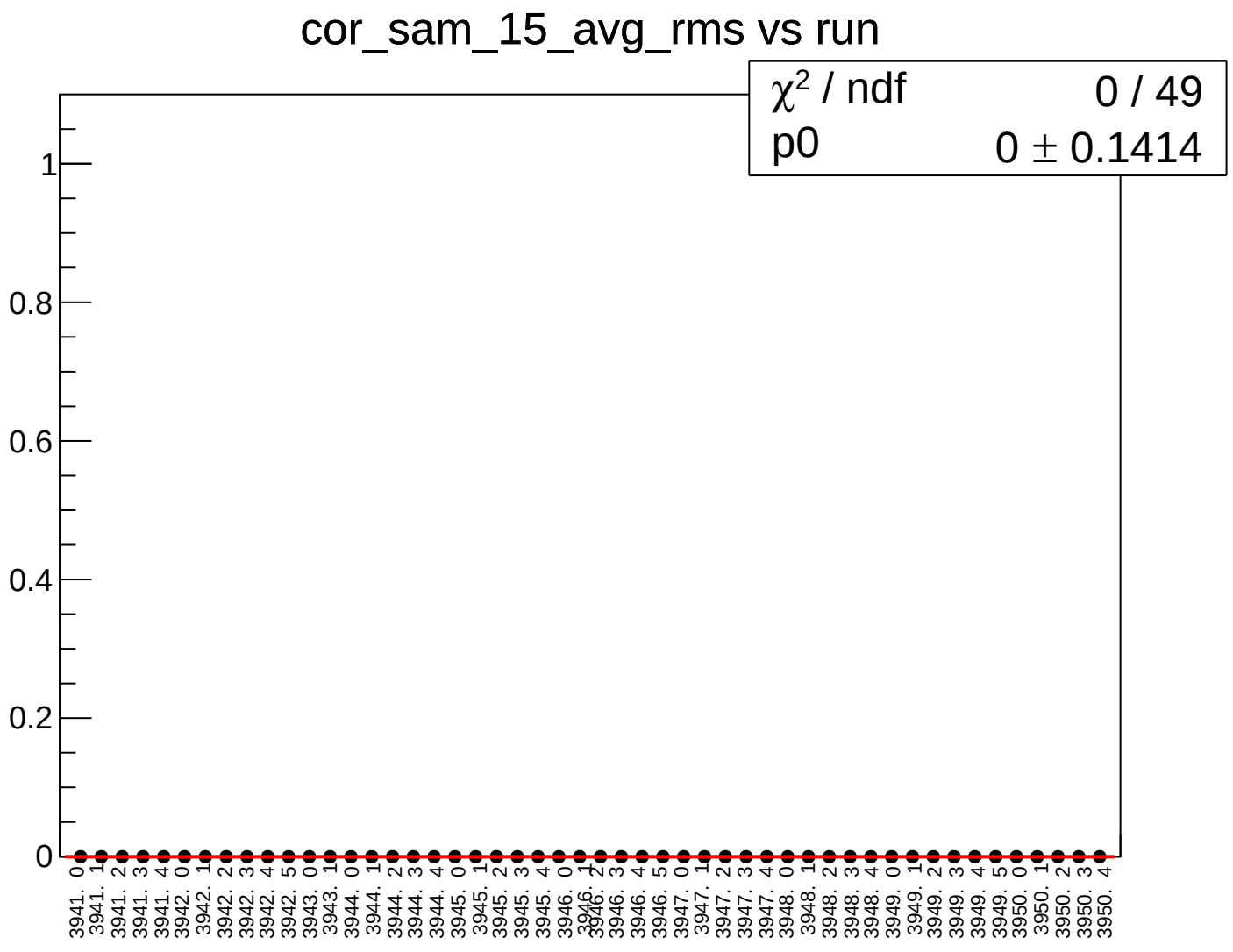
3950. 4


cor_sam_15_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


cor_sam_15_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
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3942. 4
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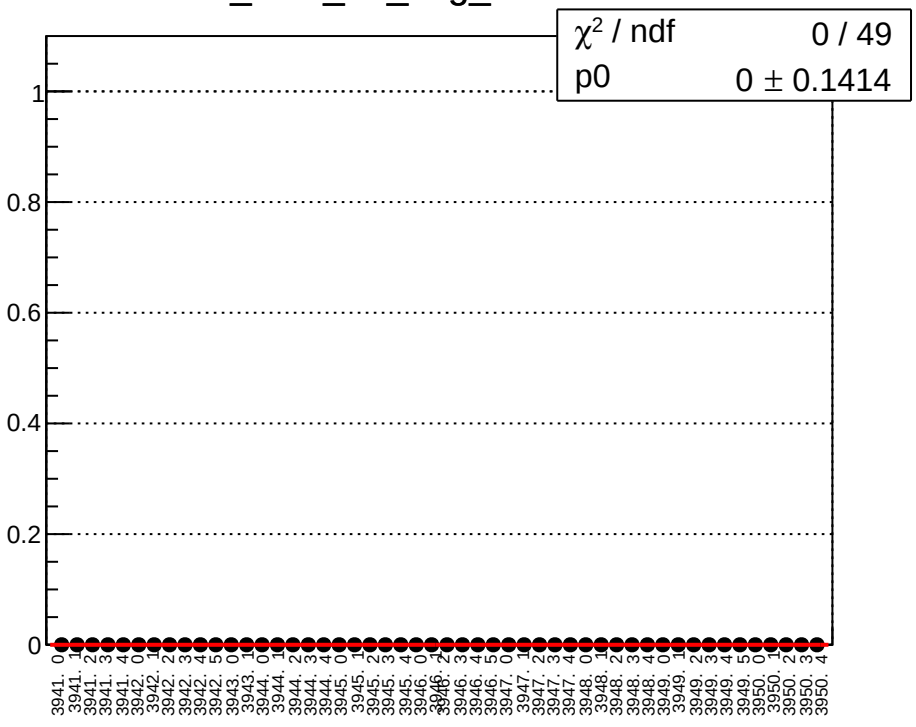
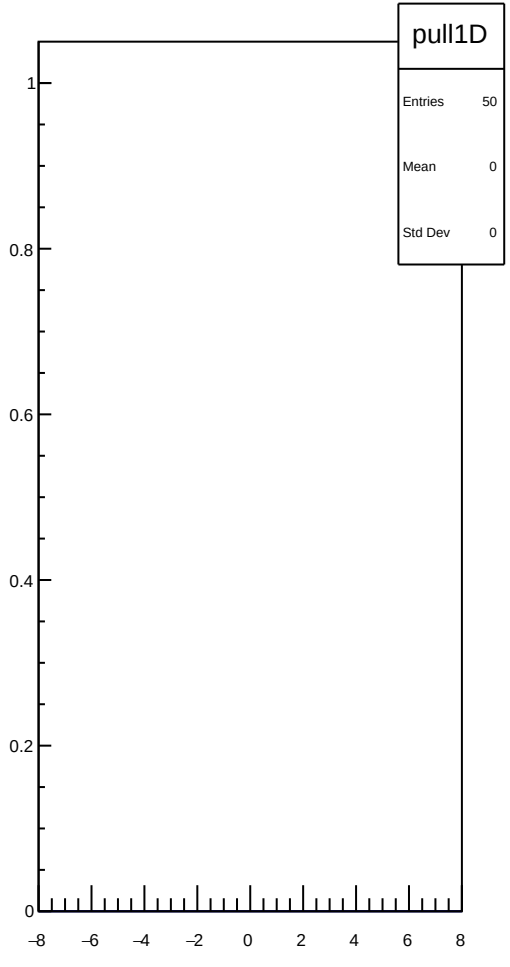
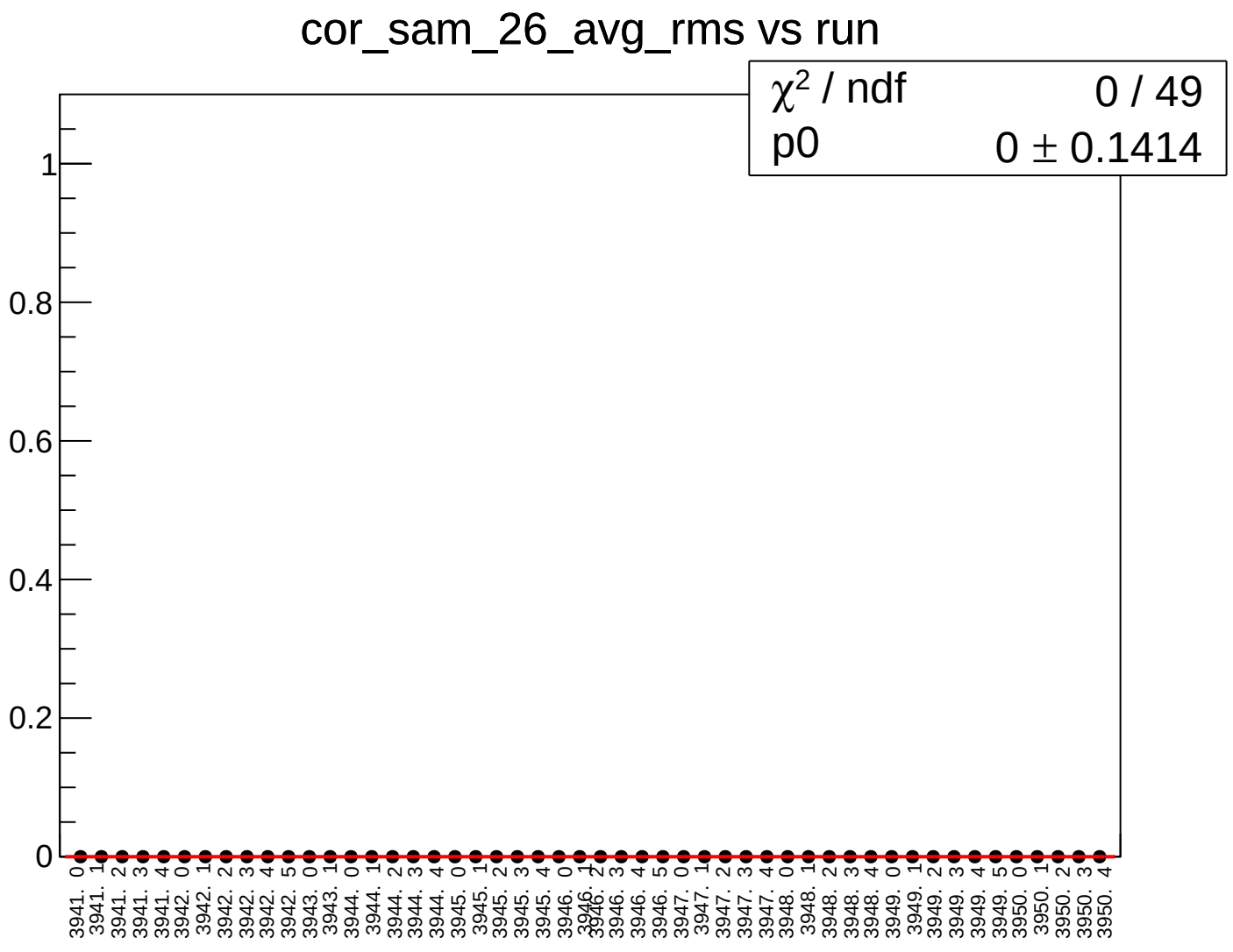

cor_sam_26_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


cor_sam_26_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
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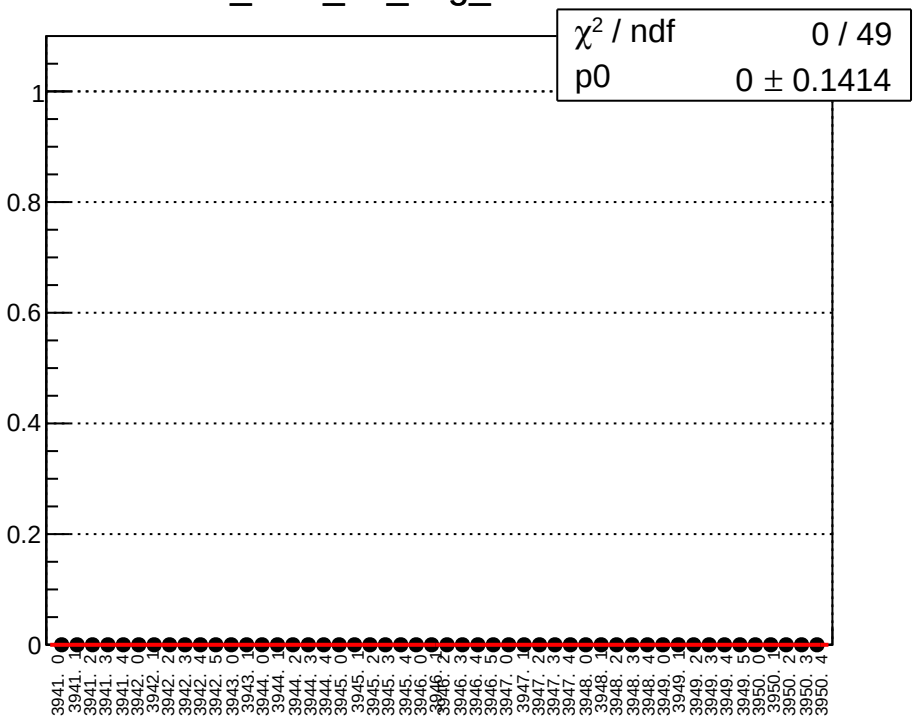
cor_sam_37_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
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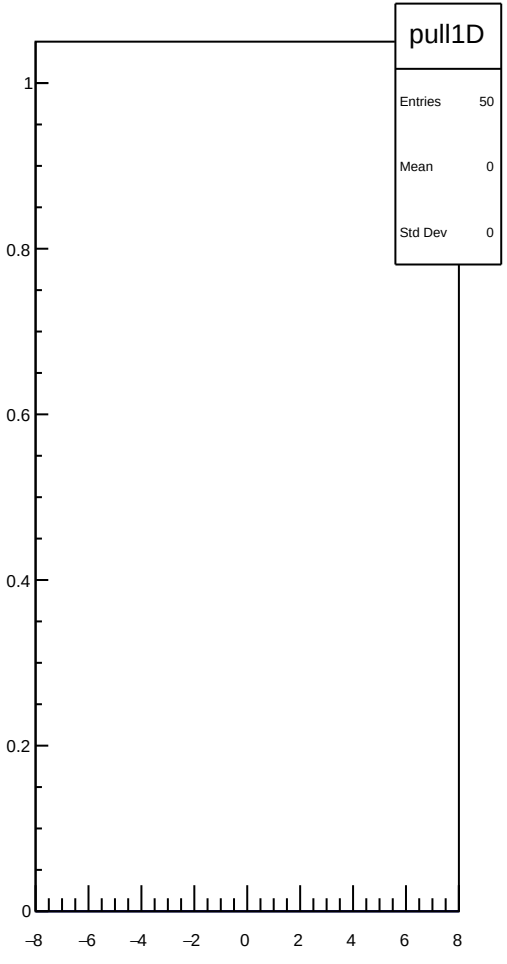
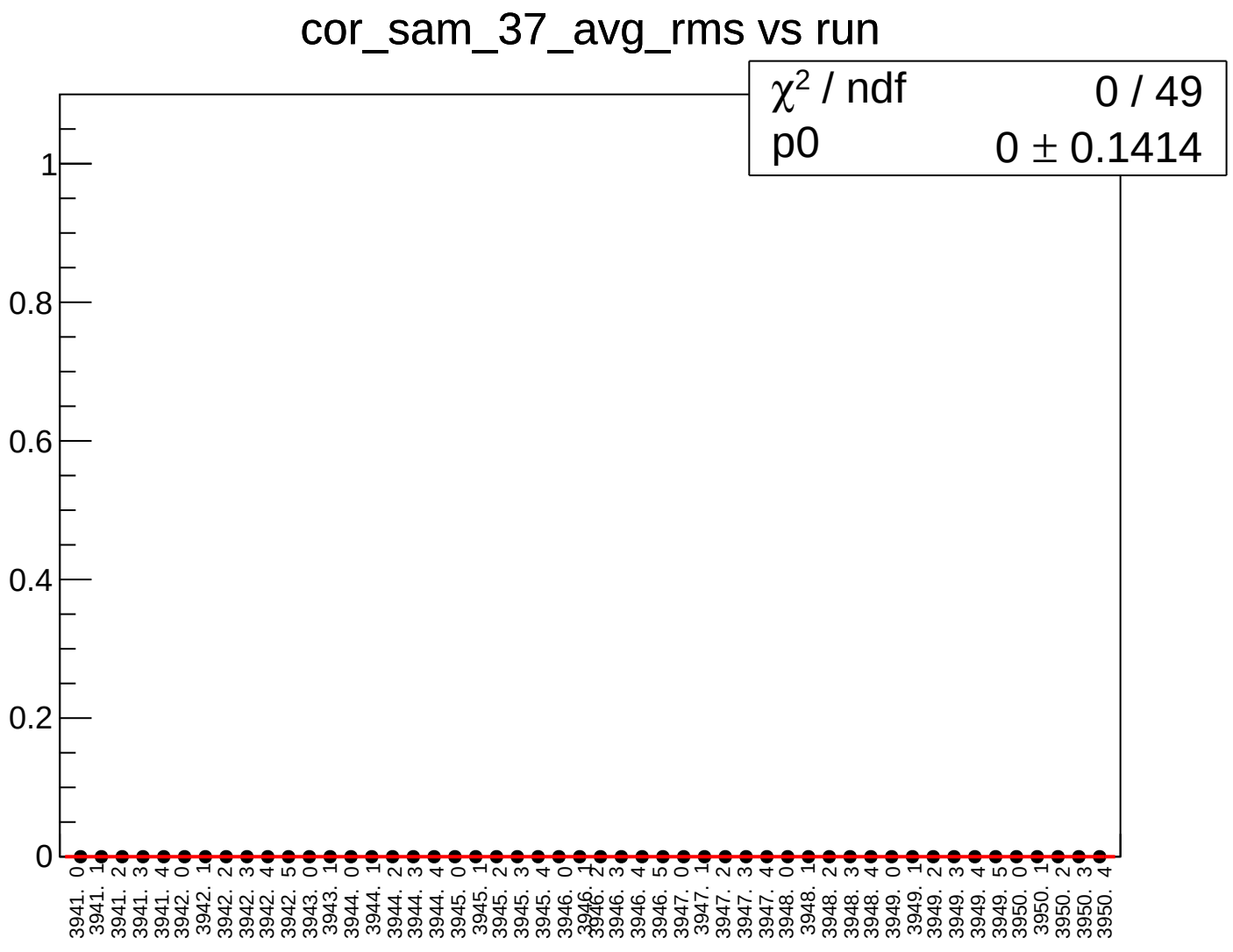
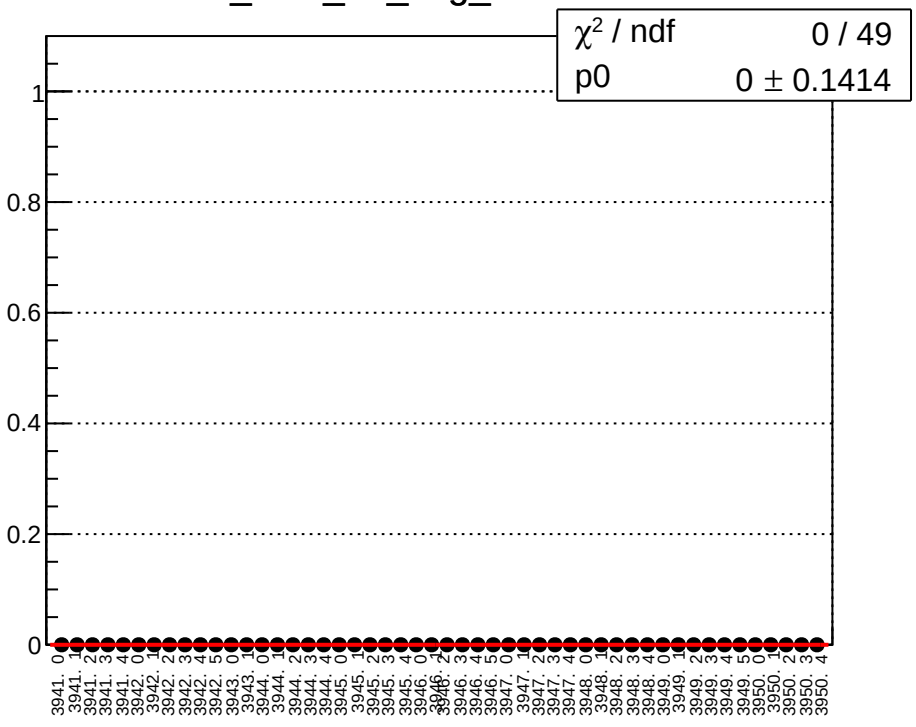
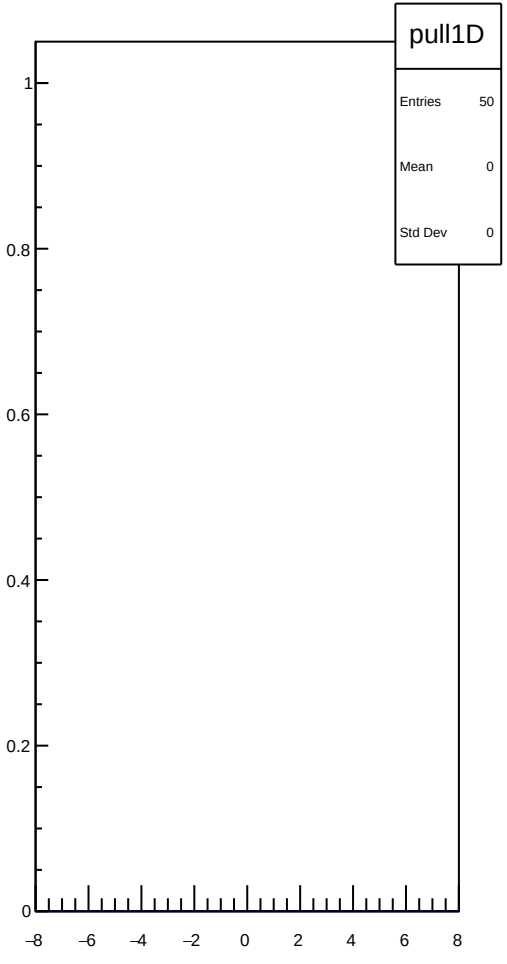
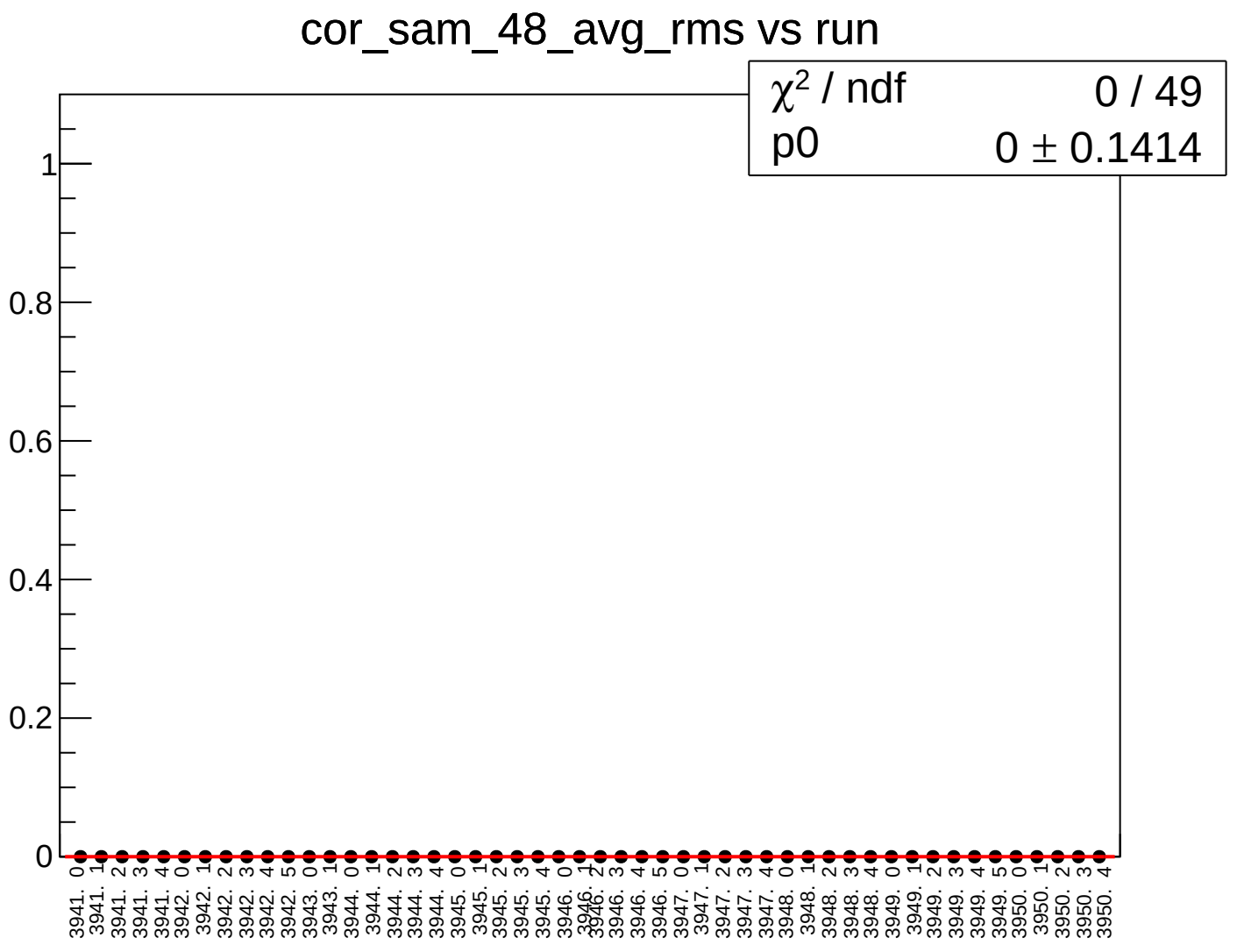
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

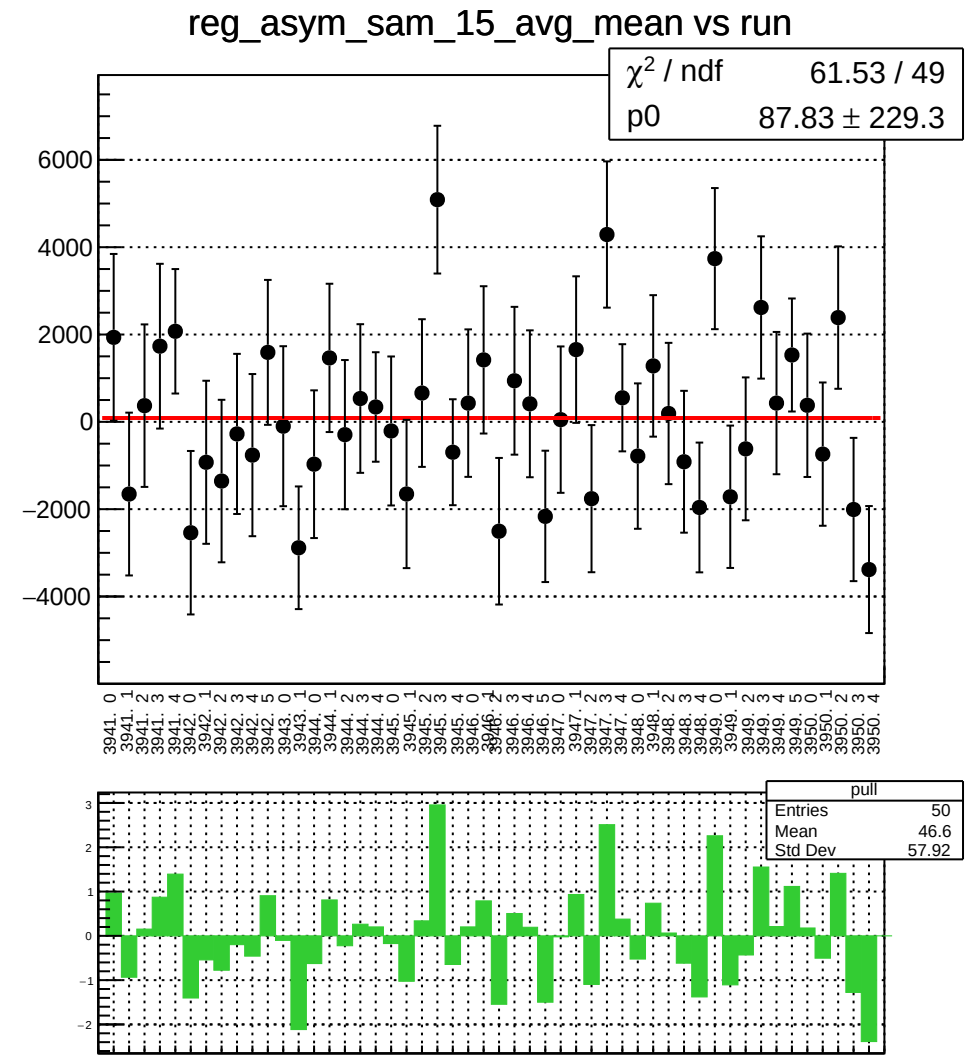

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

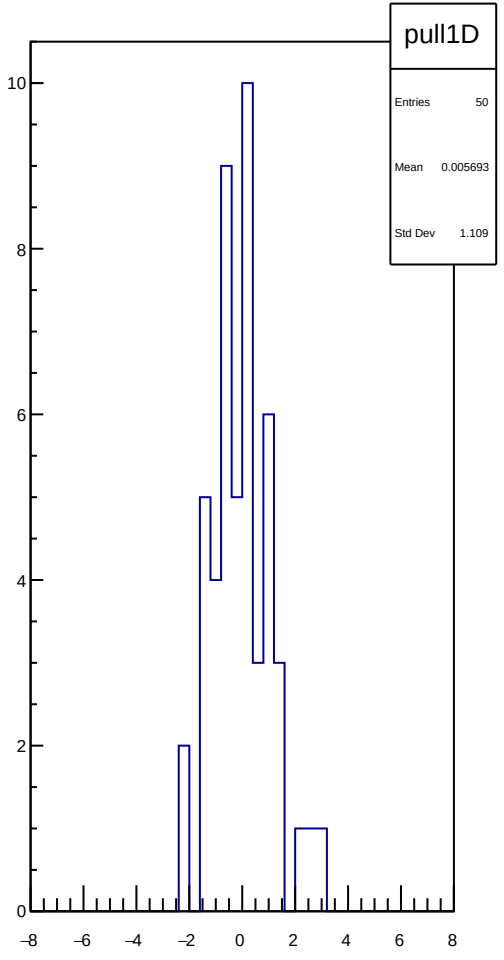

cor_sam_37_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

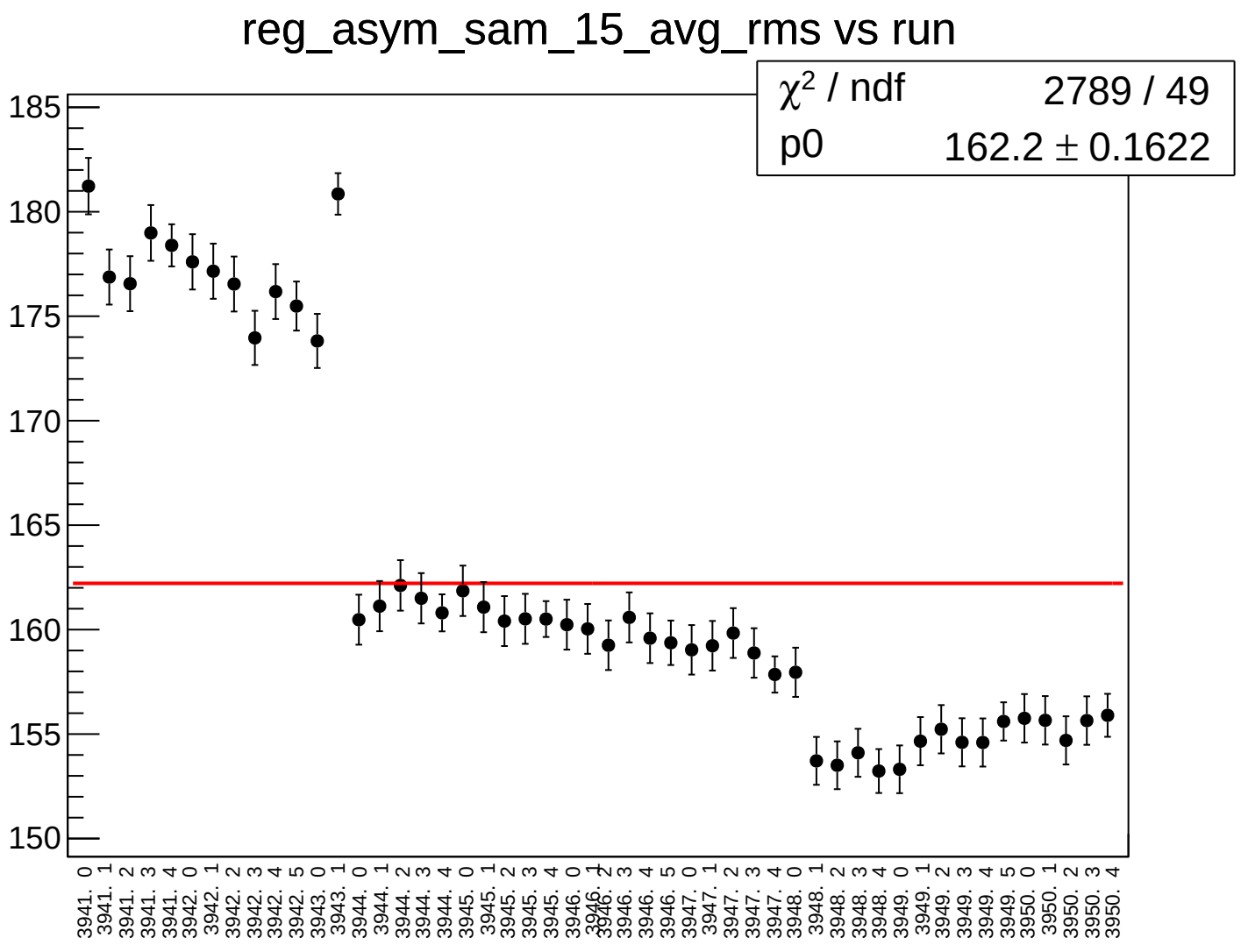

cor_sam_48_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

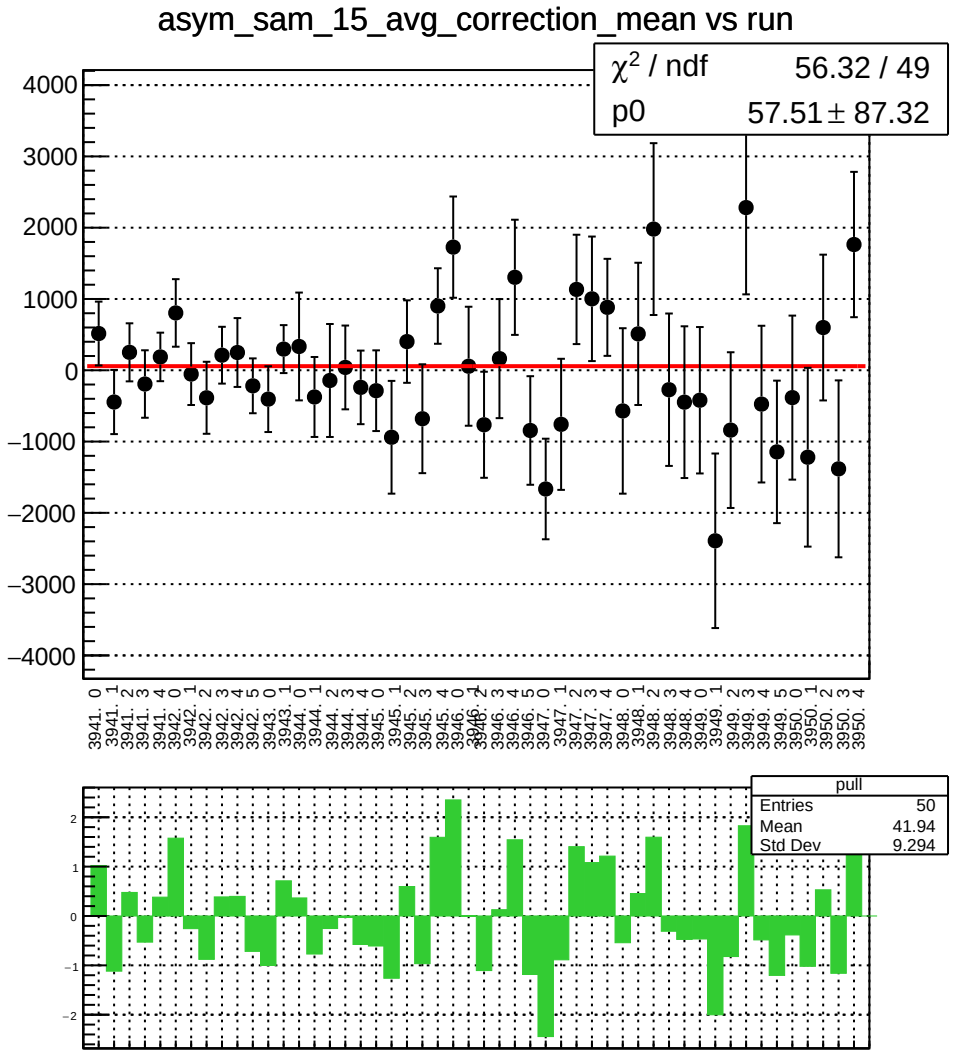

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

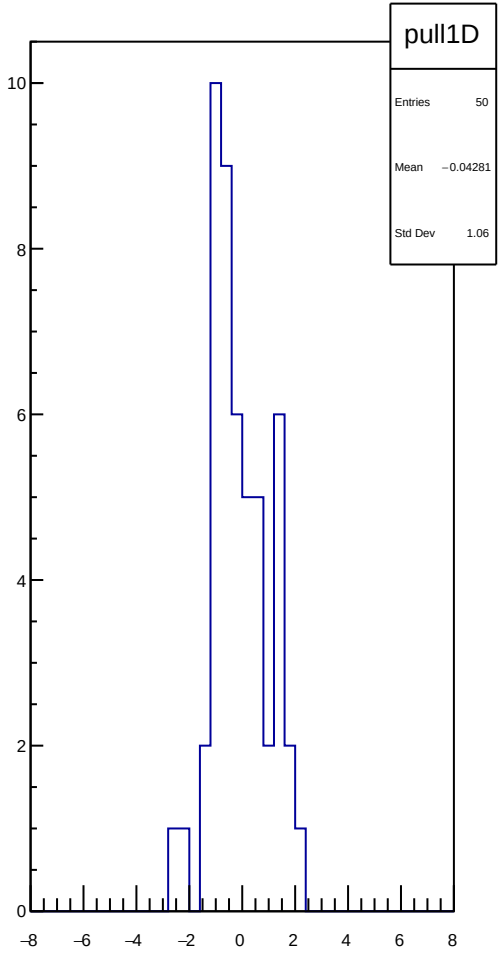

cor_sam_48_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

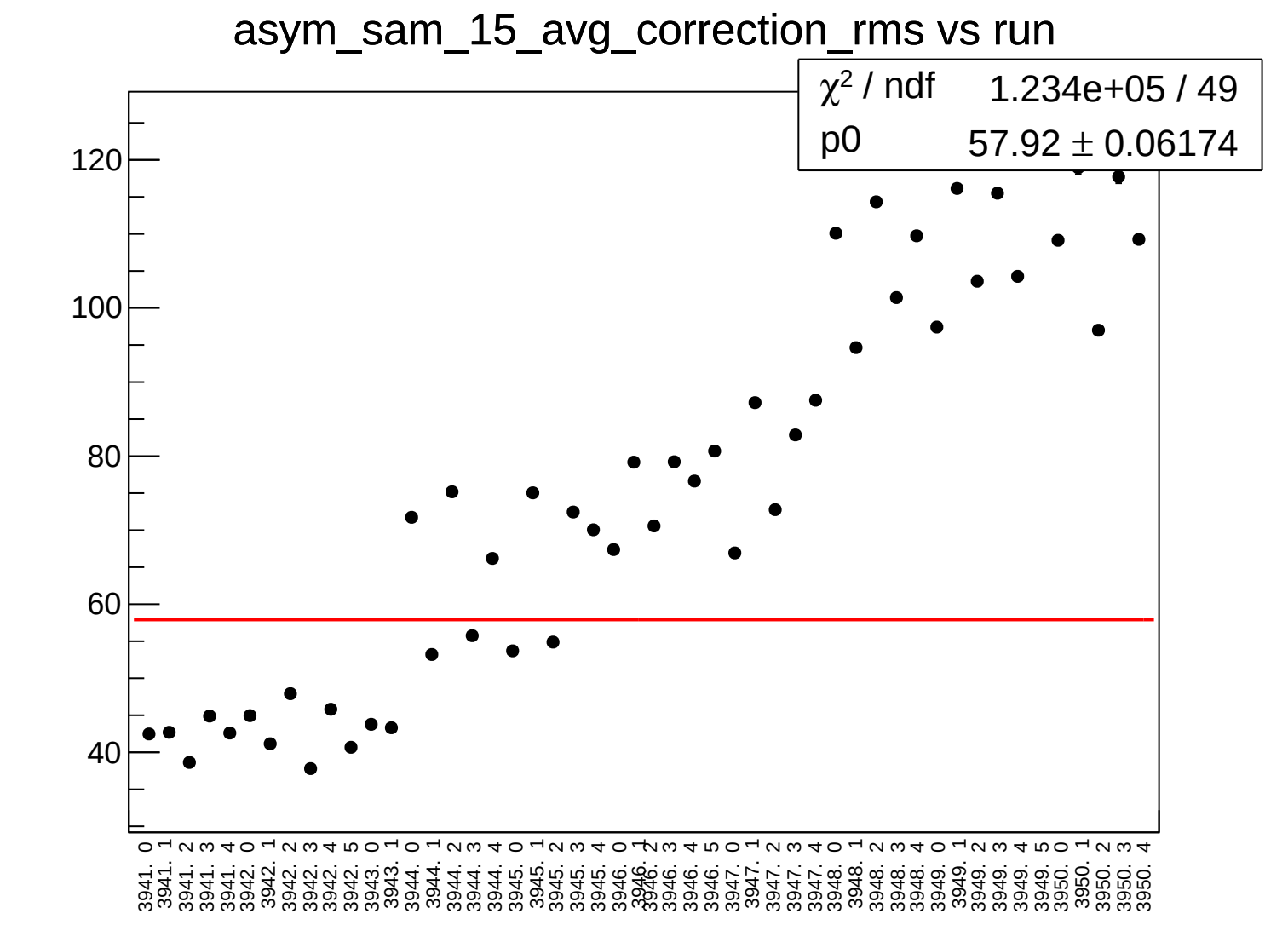

reg_asym_sam_15_avg_mean vs run
χ² / ndf 61.53 / 49
p0 87.83 ± 229.3
pull
Entries 50
Mean 46.6
Std Dev 57.92

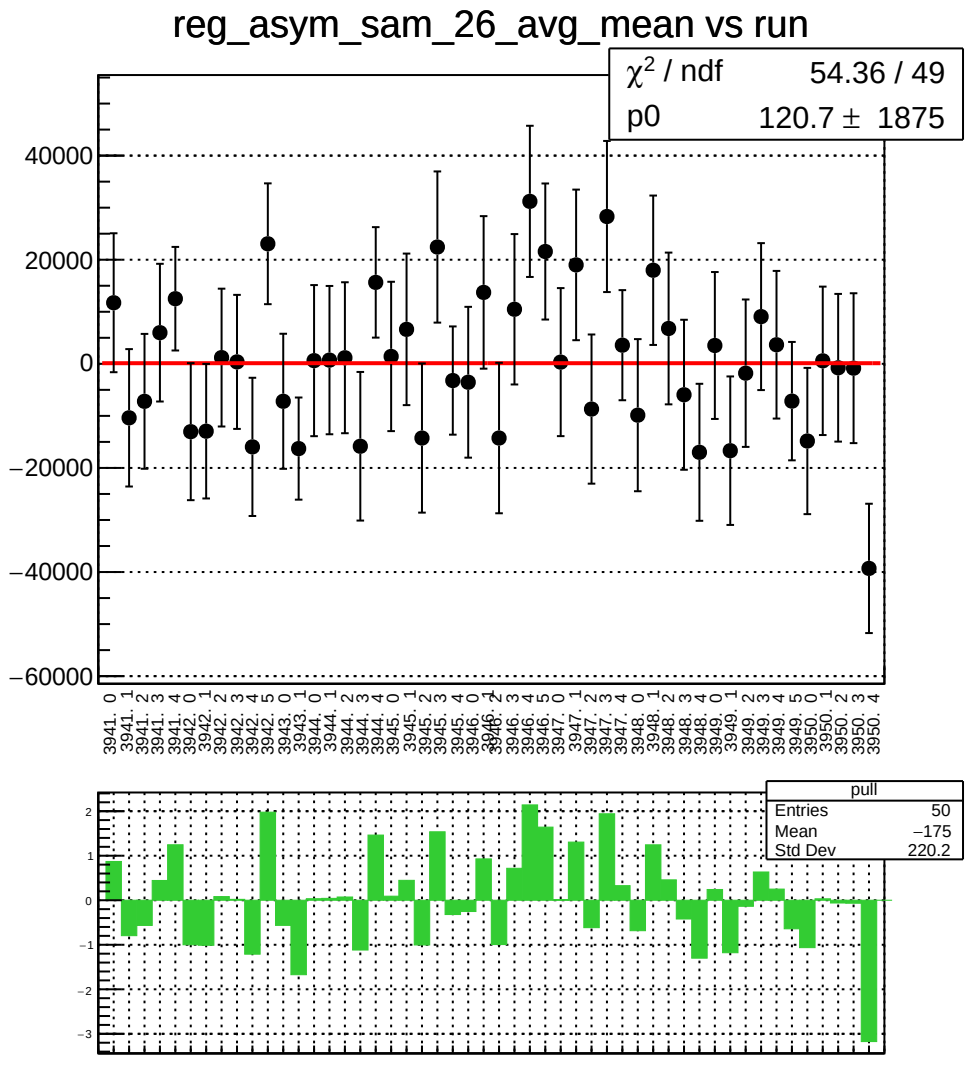

pull1D
Entries 50
Mean 0.005693
Std Dev 1.109

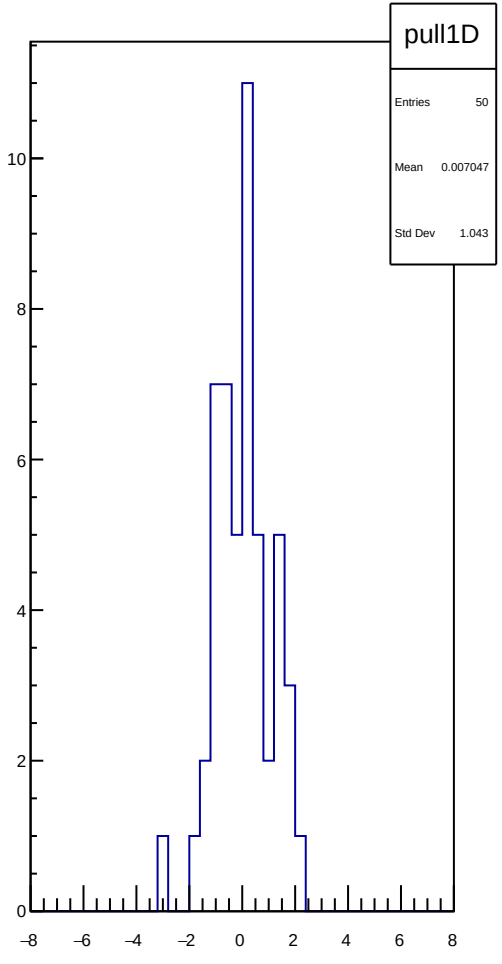

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2789 / 49
p0 162.2 ± 0.1622
185
180
175
170
165
160
155
150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

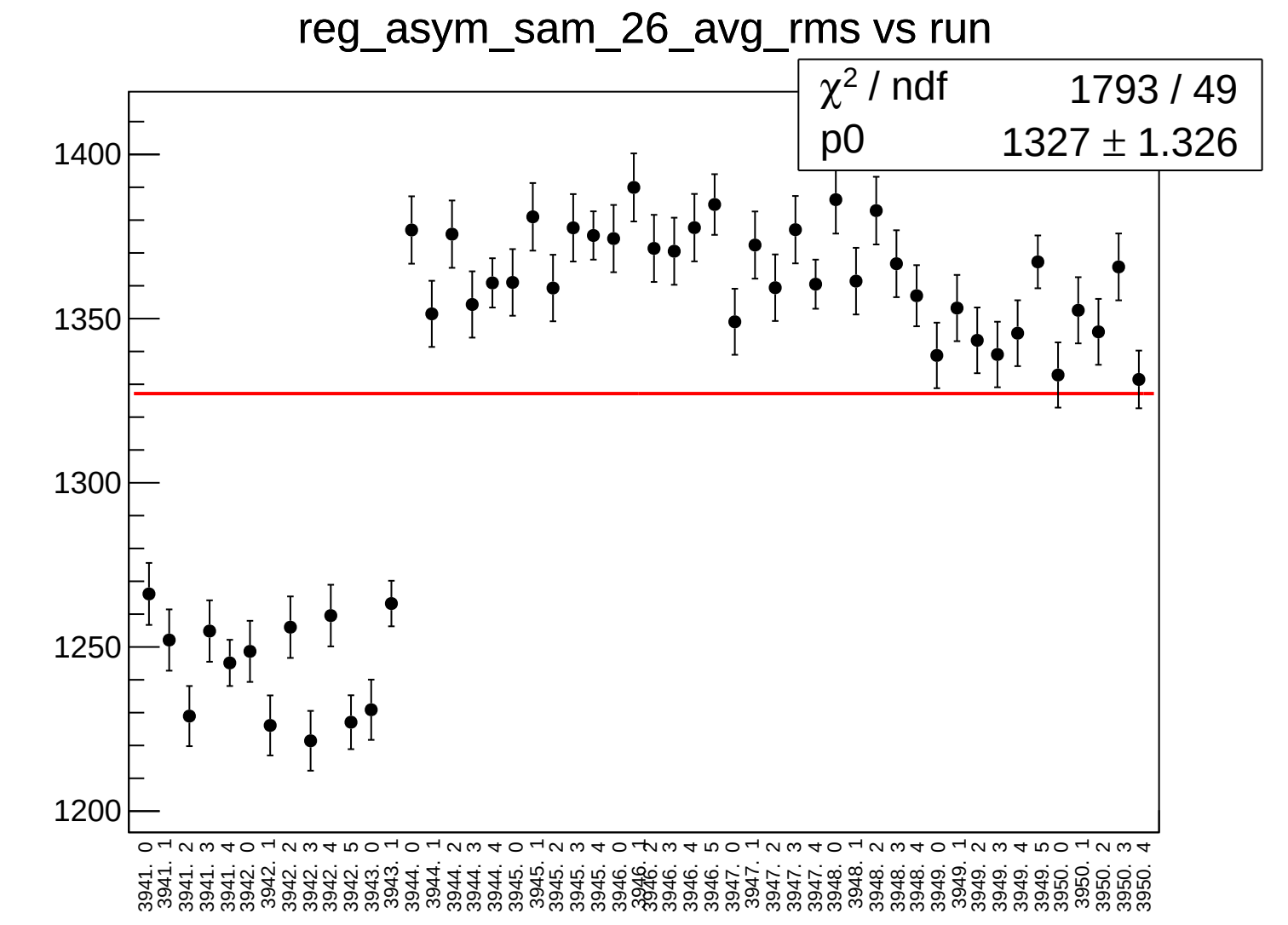

asym_sam_15_avg_correction_mean vs run
χ² / ndf 56.32 / 49
p0 57.51 ± 87.32
pull
Entries 50
Mean 41.94
Std Dev 9.294

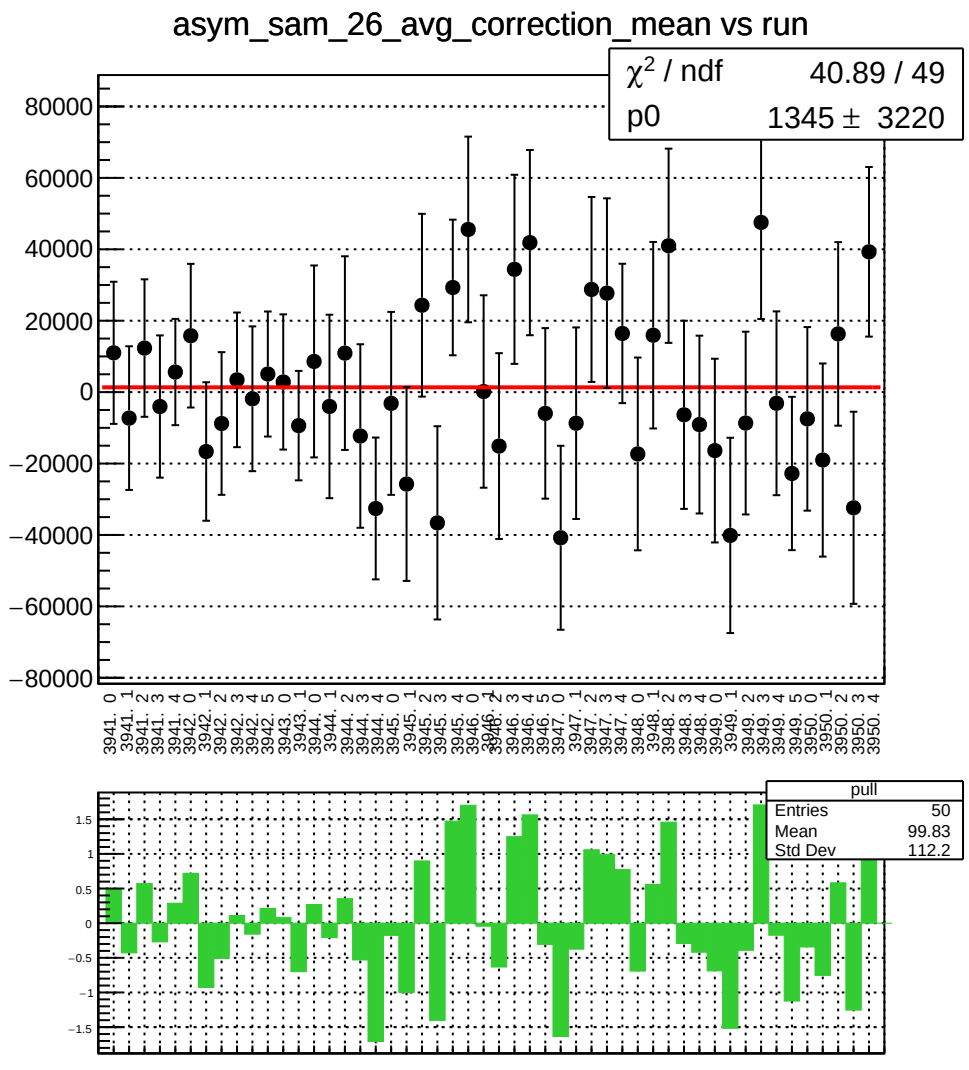

pull1D
Entries 50
Mean −0.04281
Std Dev 1.06

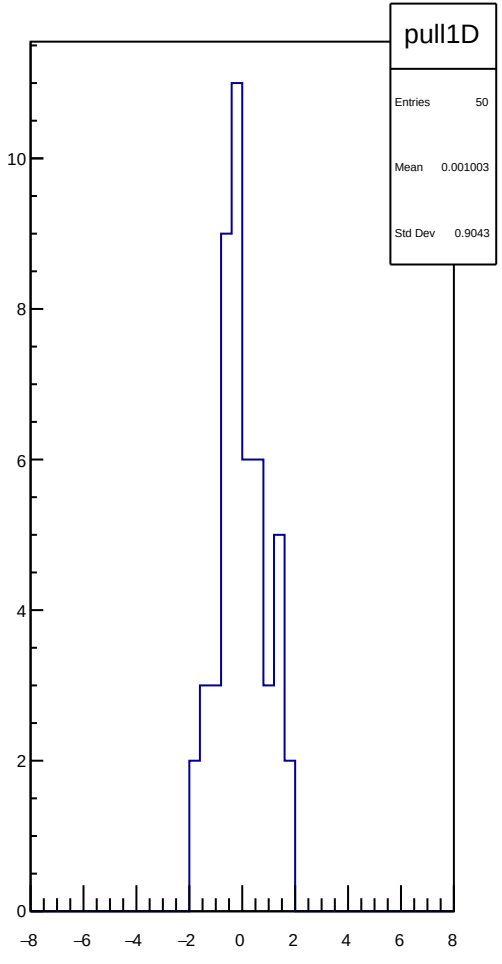

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.234e+05 / 49
p0 57.92 ± 0.06174
120
100
80
60
40
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

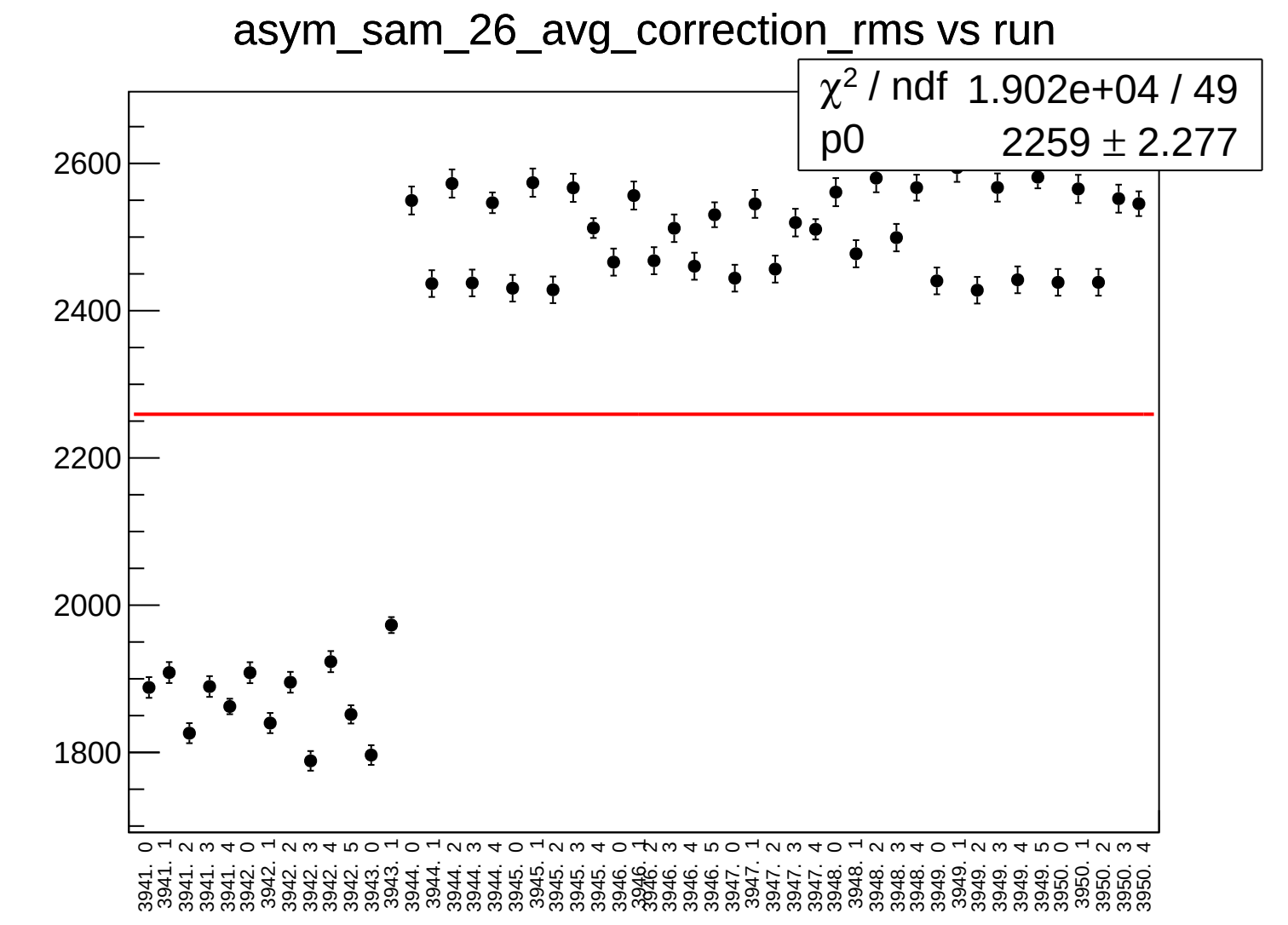

reg_asym_sam_26_avg_mean vs run
χ² / ndf 54.36 / 49
p0 120.7 ± 1875
pull
Entries 50
Mean −175
Std Dev 220.2

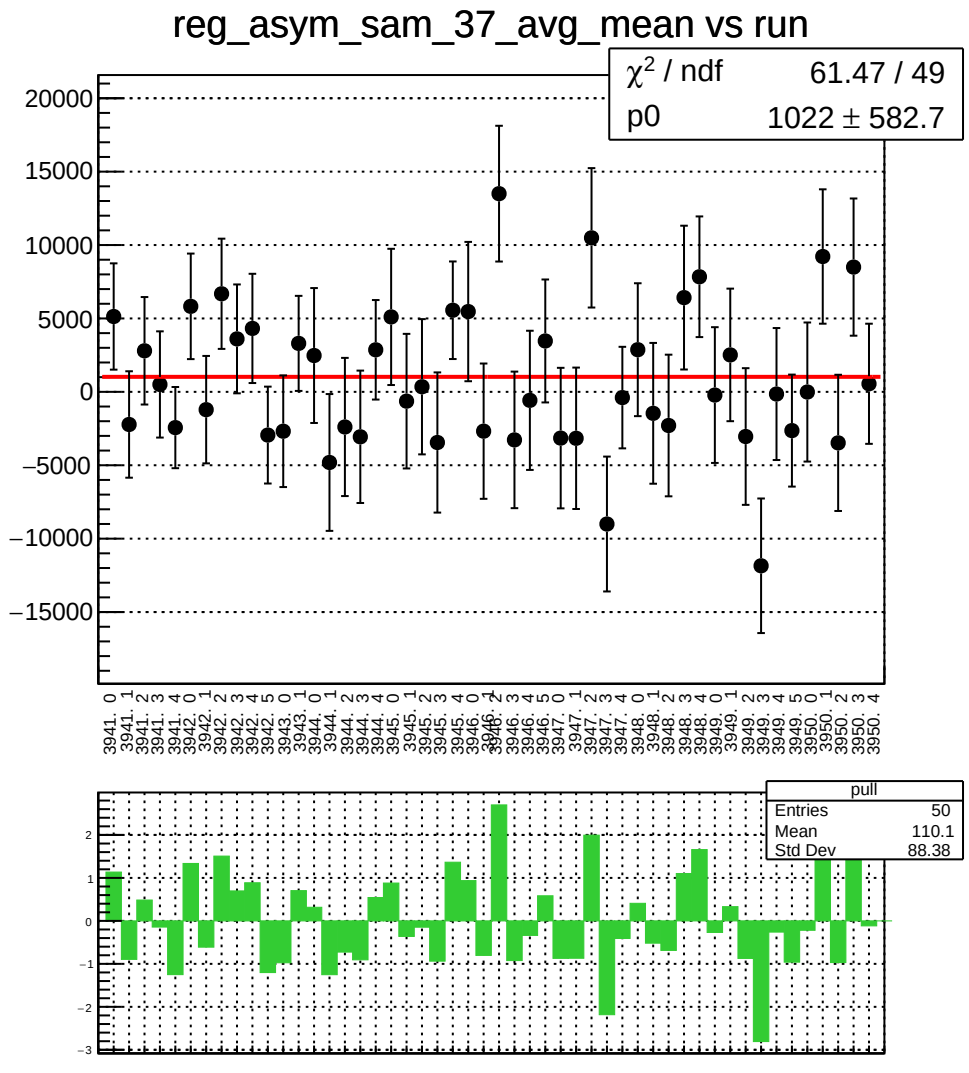

pull1D
Entries 50
Mean 0.007047
Std Dev 1.043

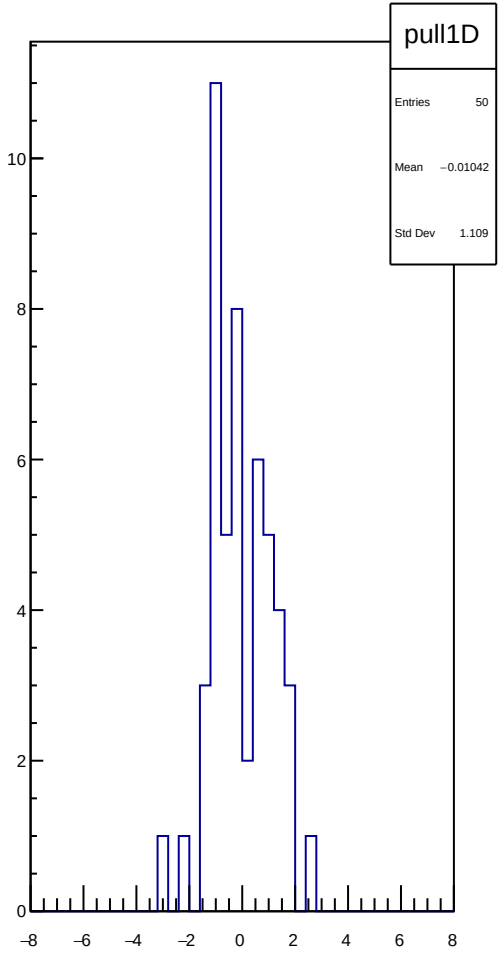

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1793 / 49
p0 1327 ± 1.326
1400
1350
1300
1250
1200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

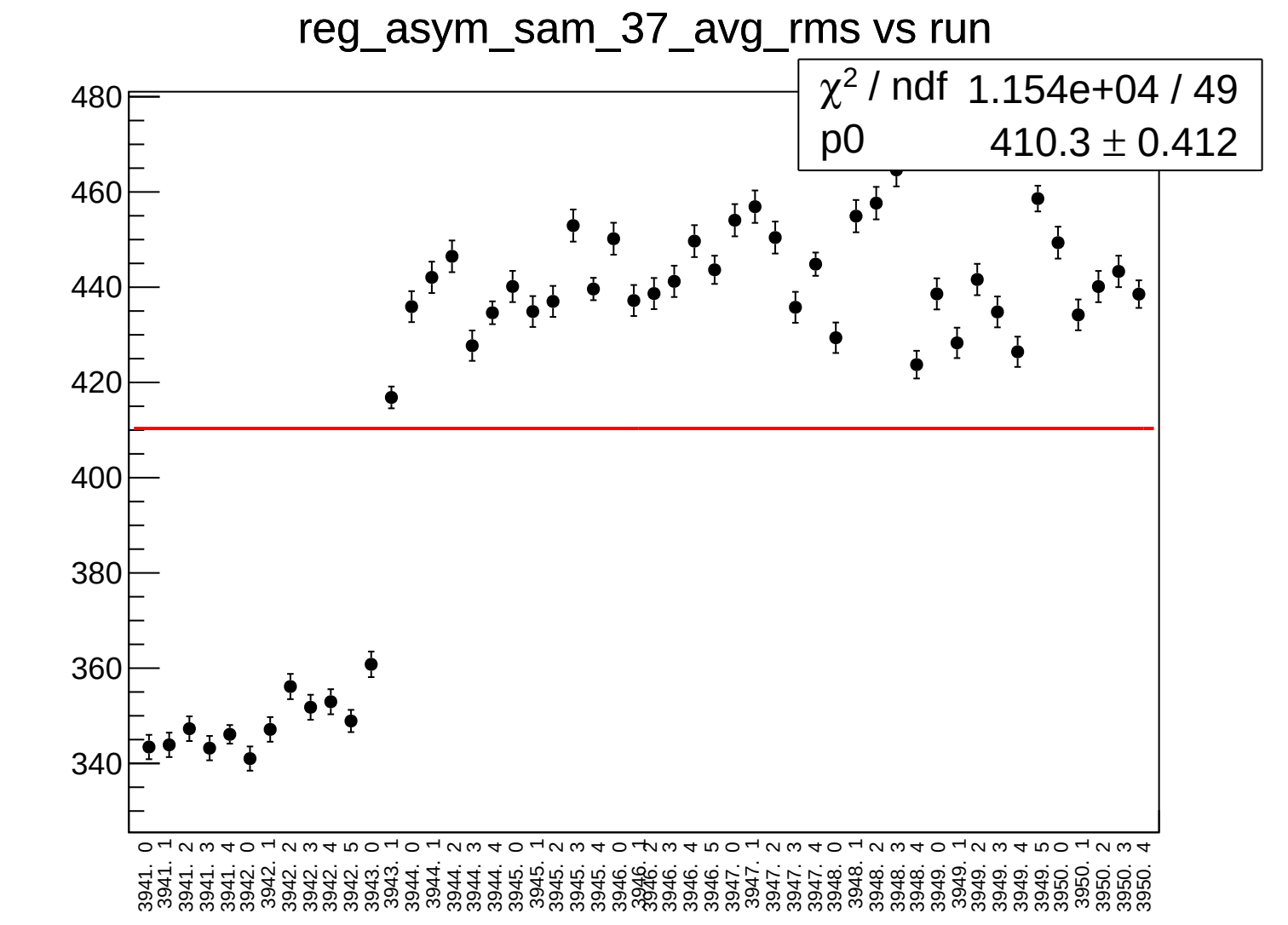

asym_sam_26_avg_correction_mean vs run
χ² / ndf 40.89 / 49
p0 1345 ± 3220
pull
Entries 50
Mean 99.83
Std Dev 112.2


pull1D
Entries 50
Mean 0.001003
Std Dev 0.9043


asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.902e+04 / 49
p0 2259 ± 2.277
2600
2400
2200
2000
1800
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


reg_asym_sam_37_avg_mean vs run
χ² / ndf 61.47 / 49
p0 1022 ± 582.7
pull
Entries 50
Mean 110.1
Std Dev 88.38


pull1D
Entries 50
Mean −0.01042
Std Dev 1.109


reg_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 1.154e+04 / 49
p0 410.3 ± 0.412
480
460
440
420
400
380
360
340
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 3
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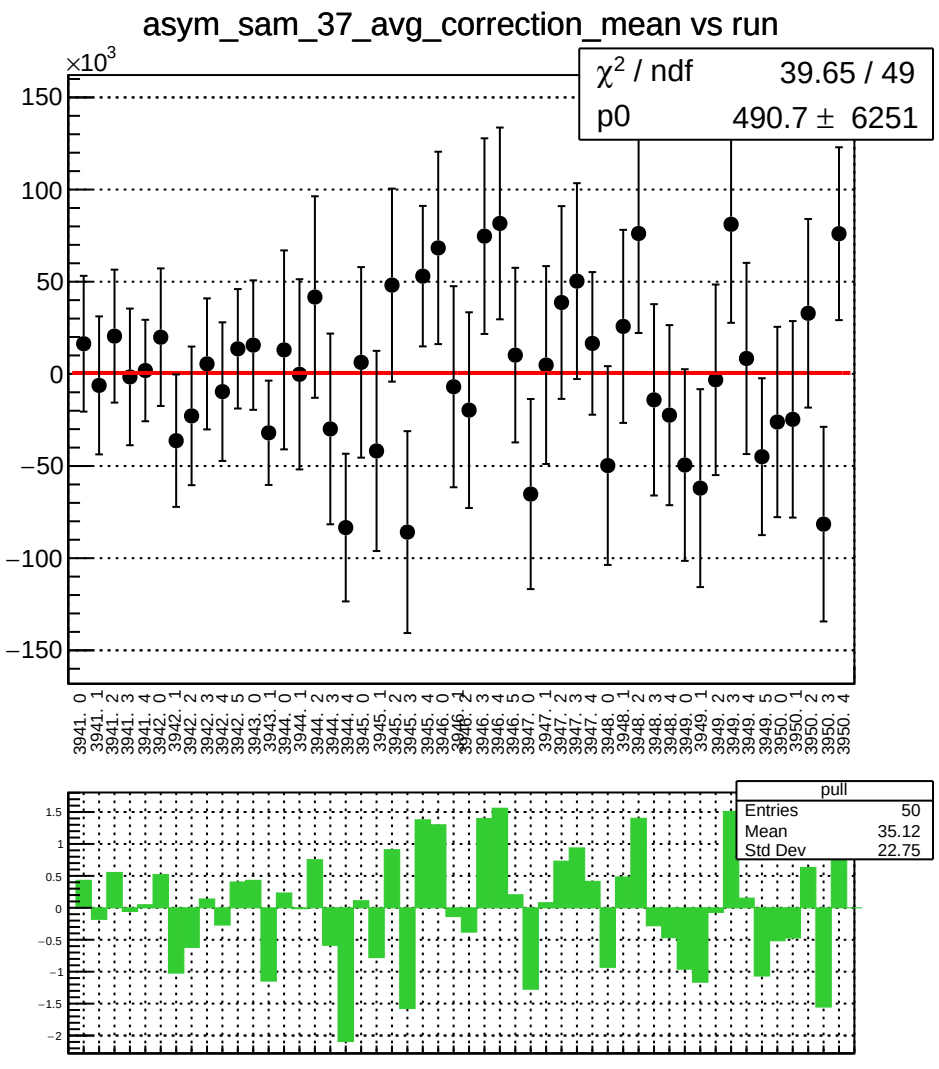
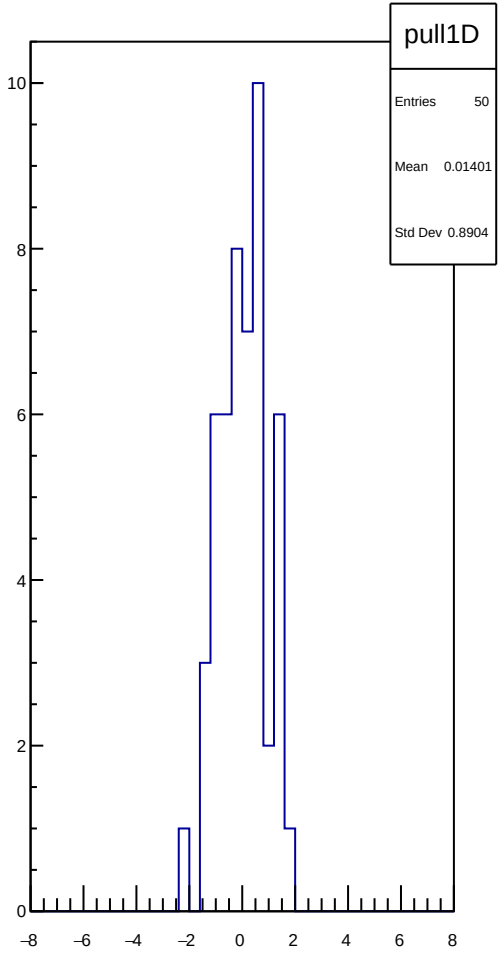
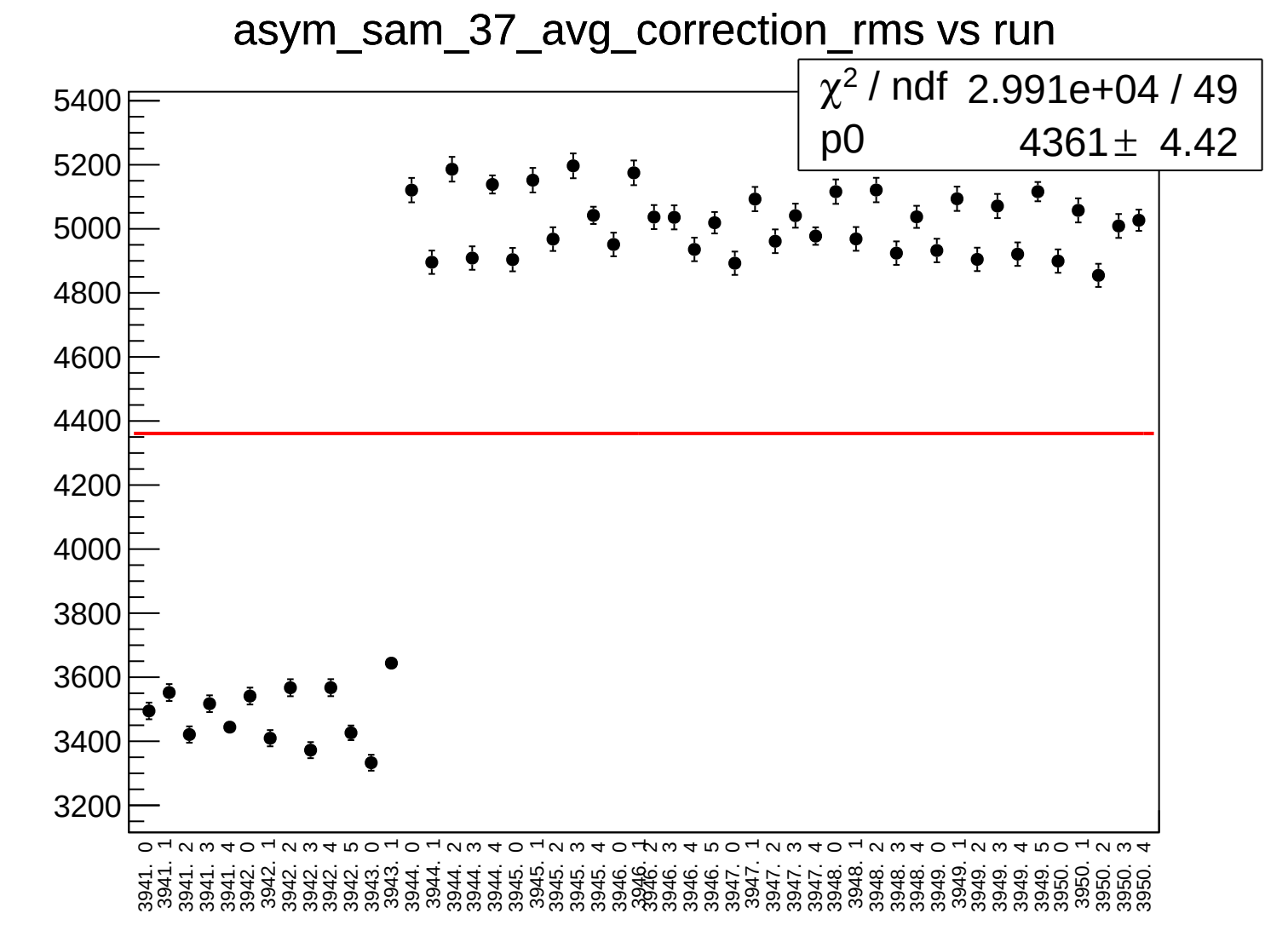
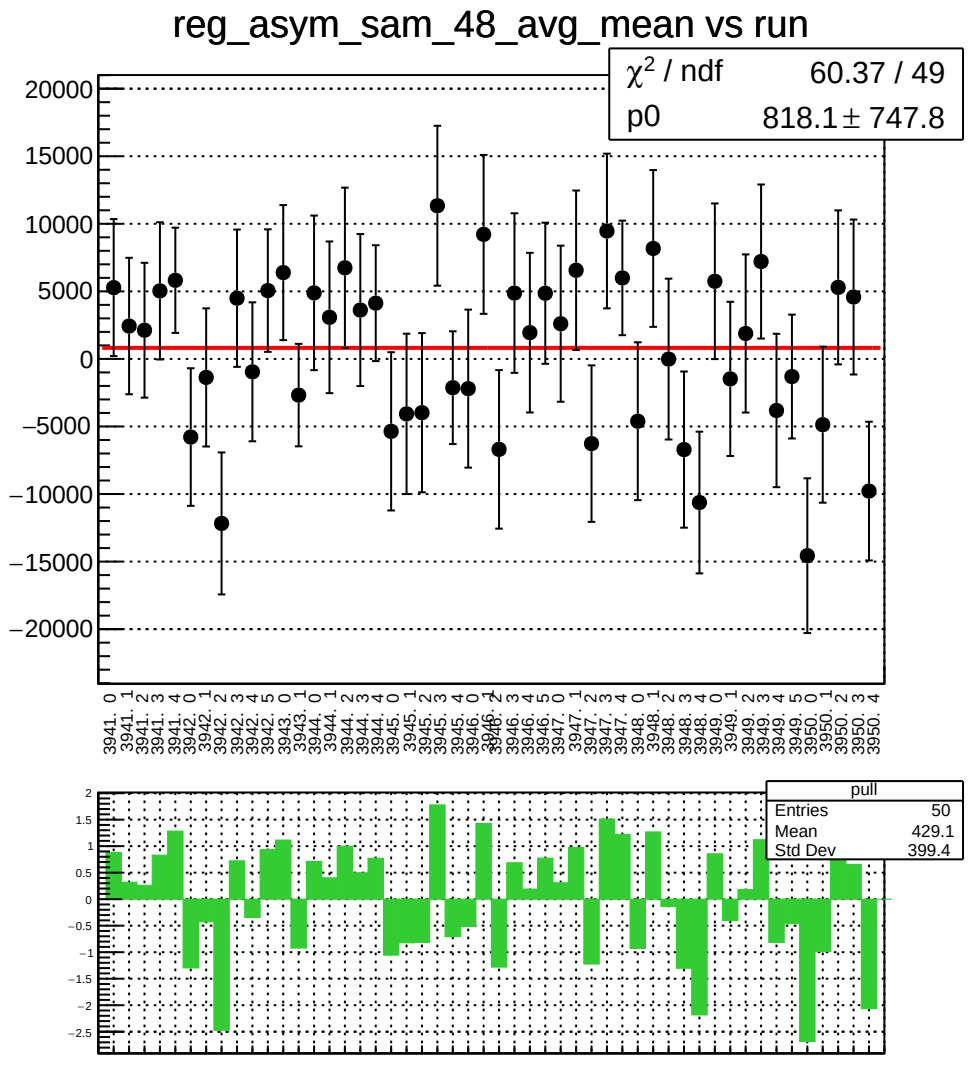
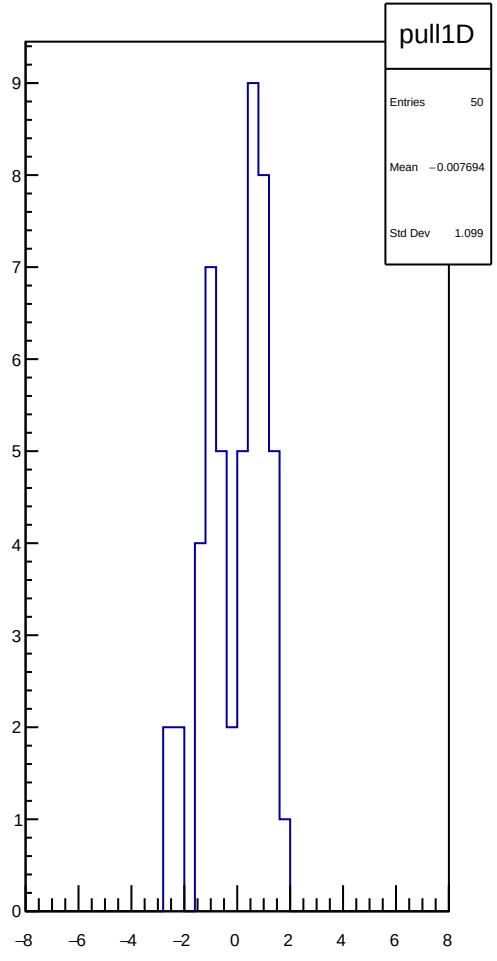
3950. 3
3950. 4

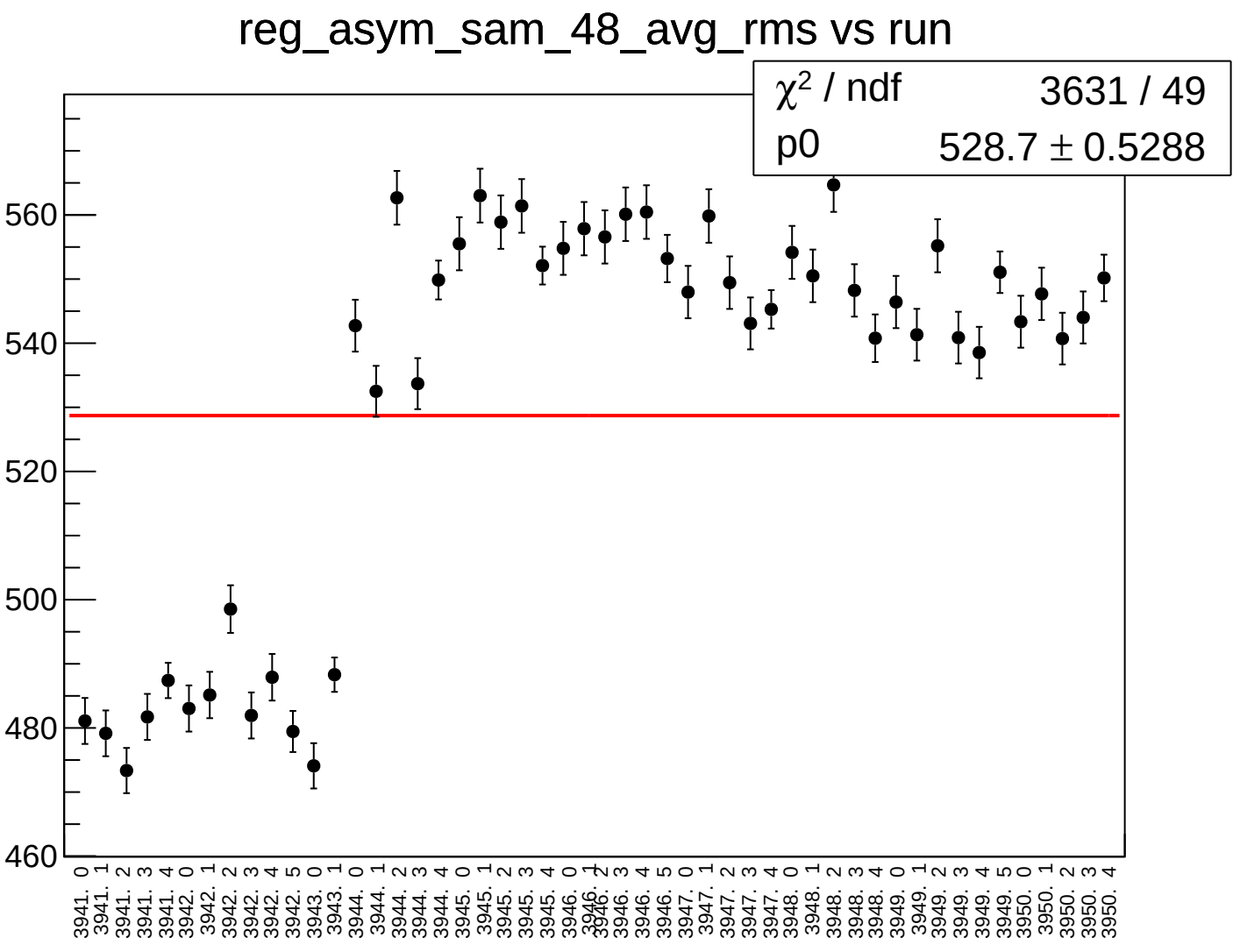

asym_sam_37_avg_correction_mean vs run
×10^3
χ^2 / ndf 39.65 / 49
p0 490.7 ± 6251
150
100
50
0
−50
−100
−150
pull
Entries 50
Mean 35.12
Std Dev 22.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.01401
Std Dev 0.8904
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_correction_rms vs run
χ² / ndf 2.991e+04 / 49
p0 4361 ± 4.42
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


reg_asym_sam_48_avg_mean vs run
χ² / ndf 60.37 / 49
p0 818.1 ± 747.8
pull
Entries 50
Mean 429.1
Std Dev 399.4


pull1D
Entries 50
Mean −0.007694
Std Dev 1.099


reg_asym_sam_48_avg_rms vs run
χ² / ndf 3631 / 49
p0 528.7 ± 0.5288
560
540
520
500
480
460
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
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3946. 1
3946. 2
3946. 3
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3946. 5
3947. 0
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3947. 2
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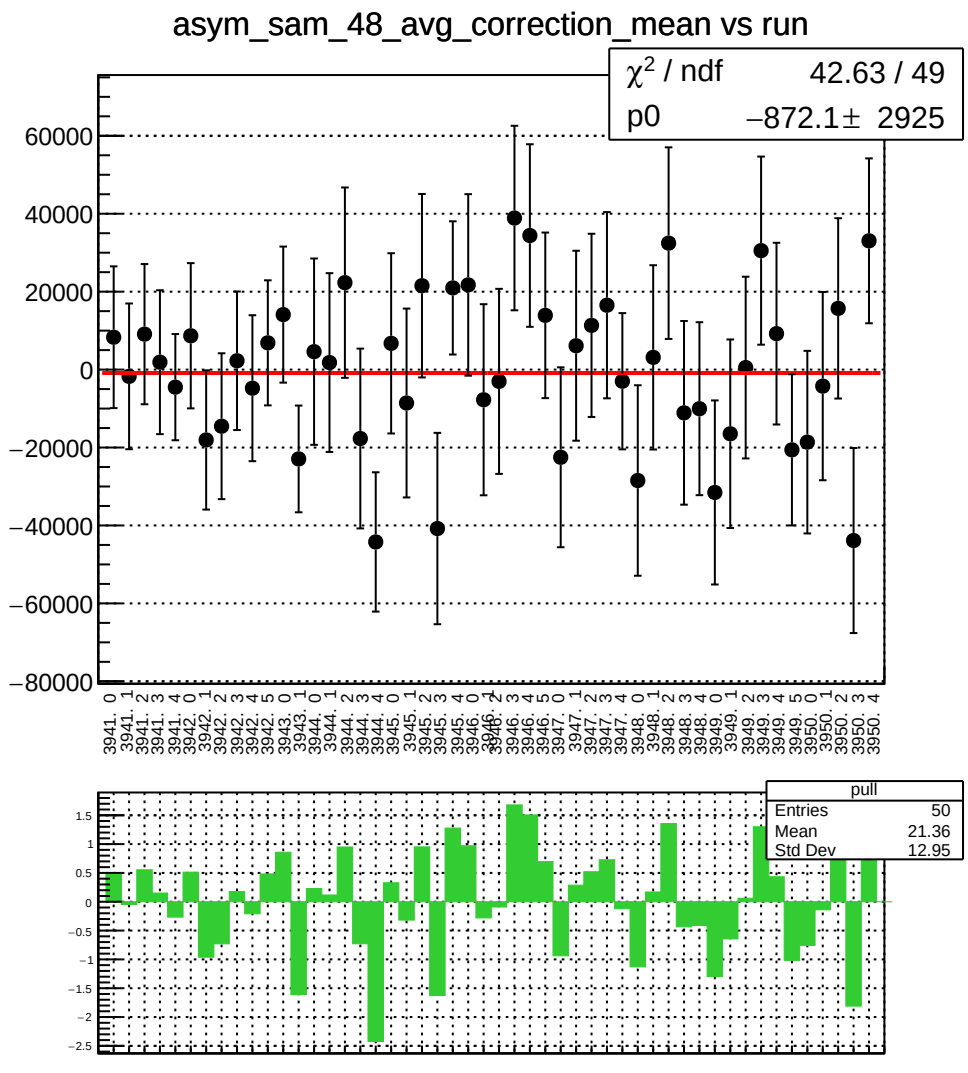
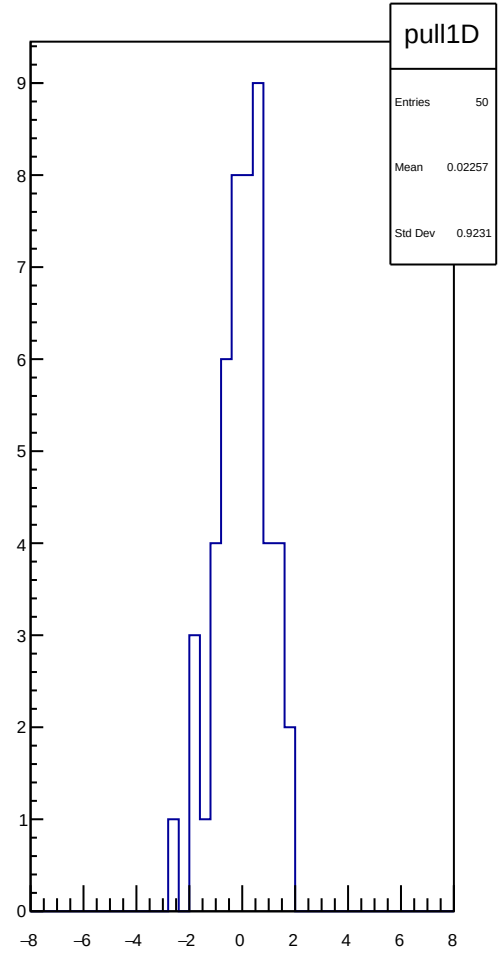
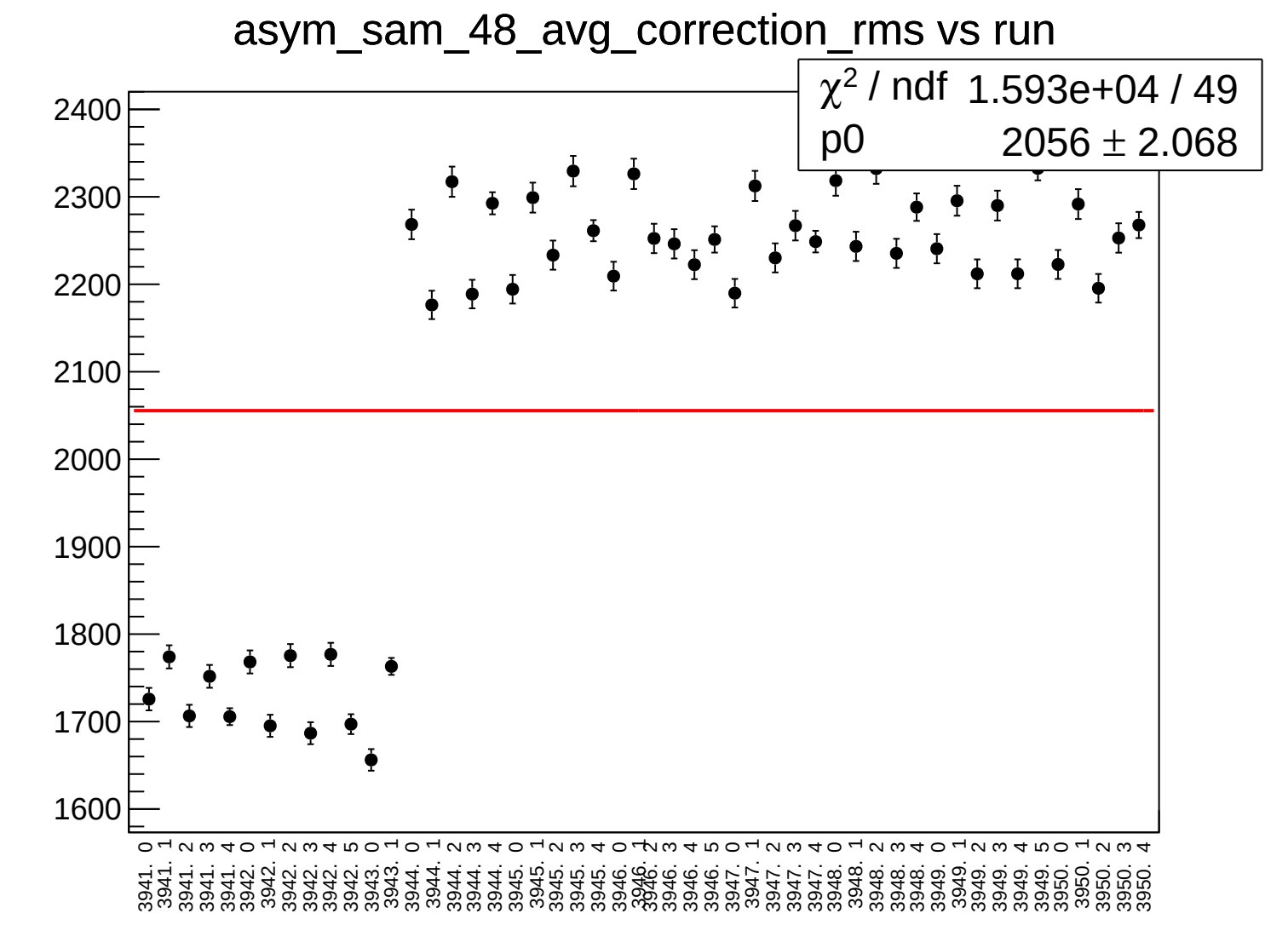
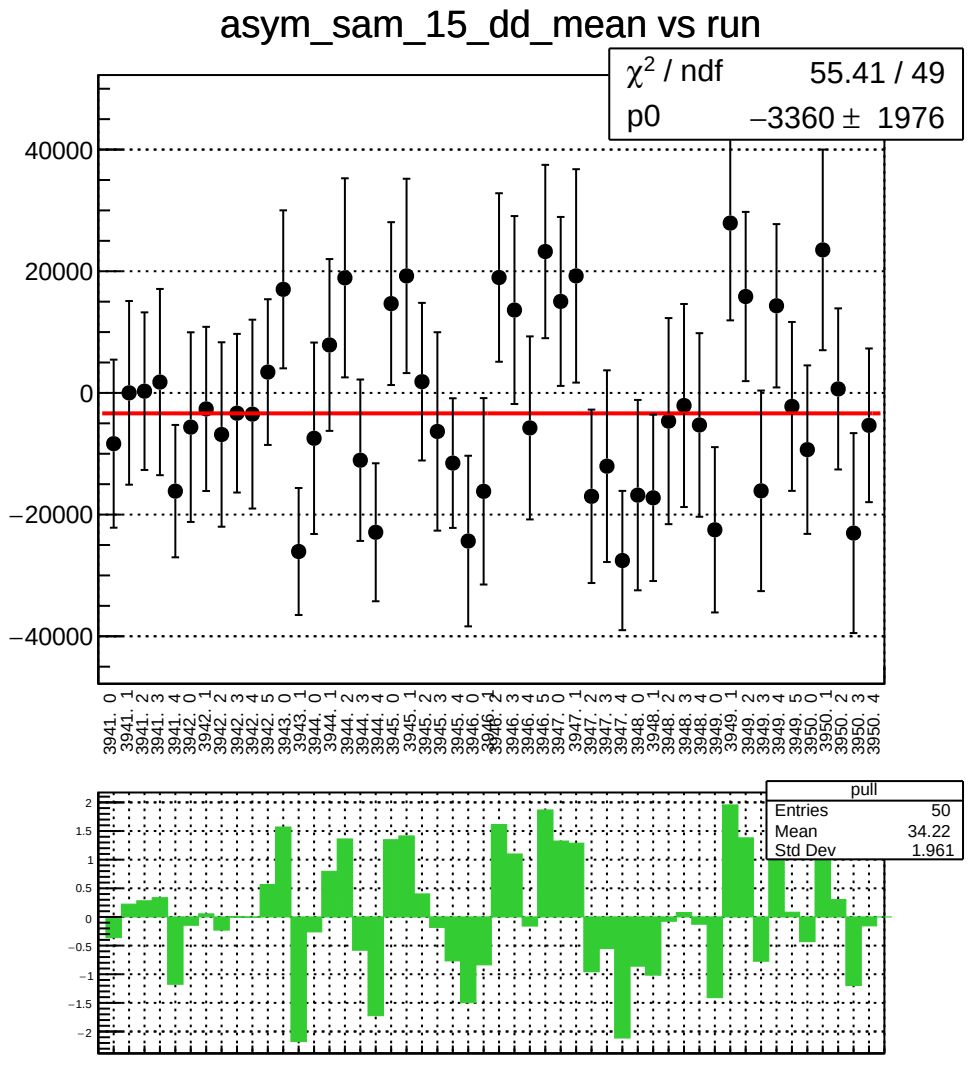
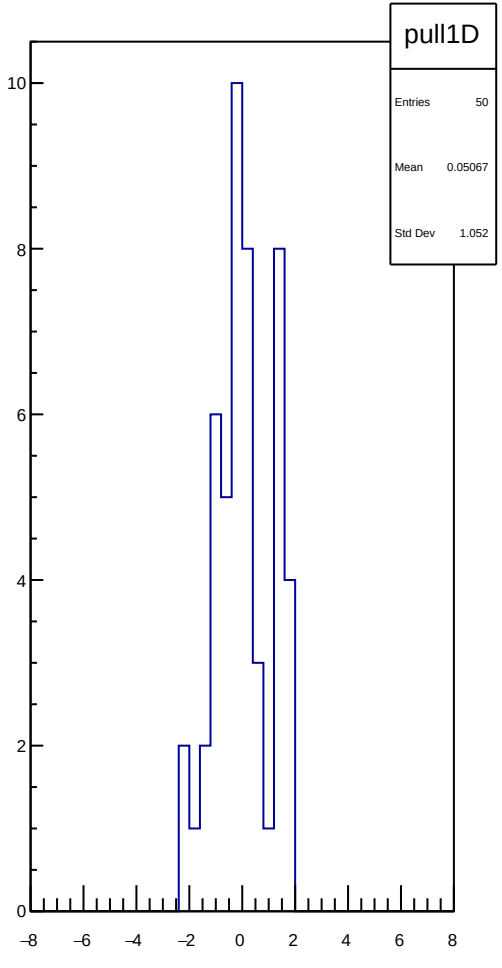
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

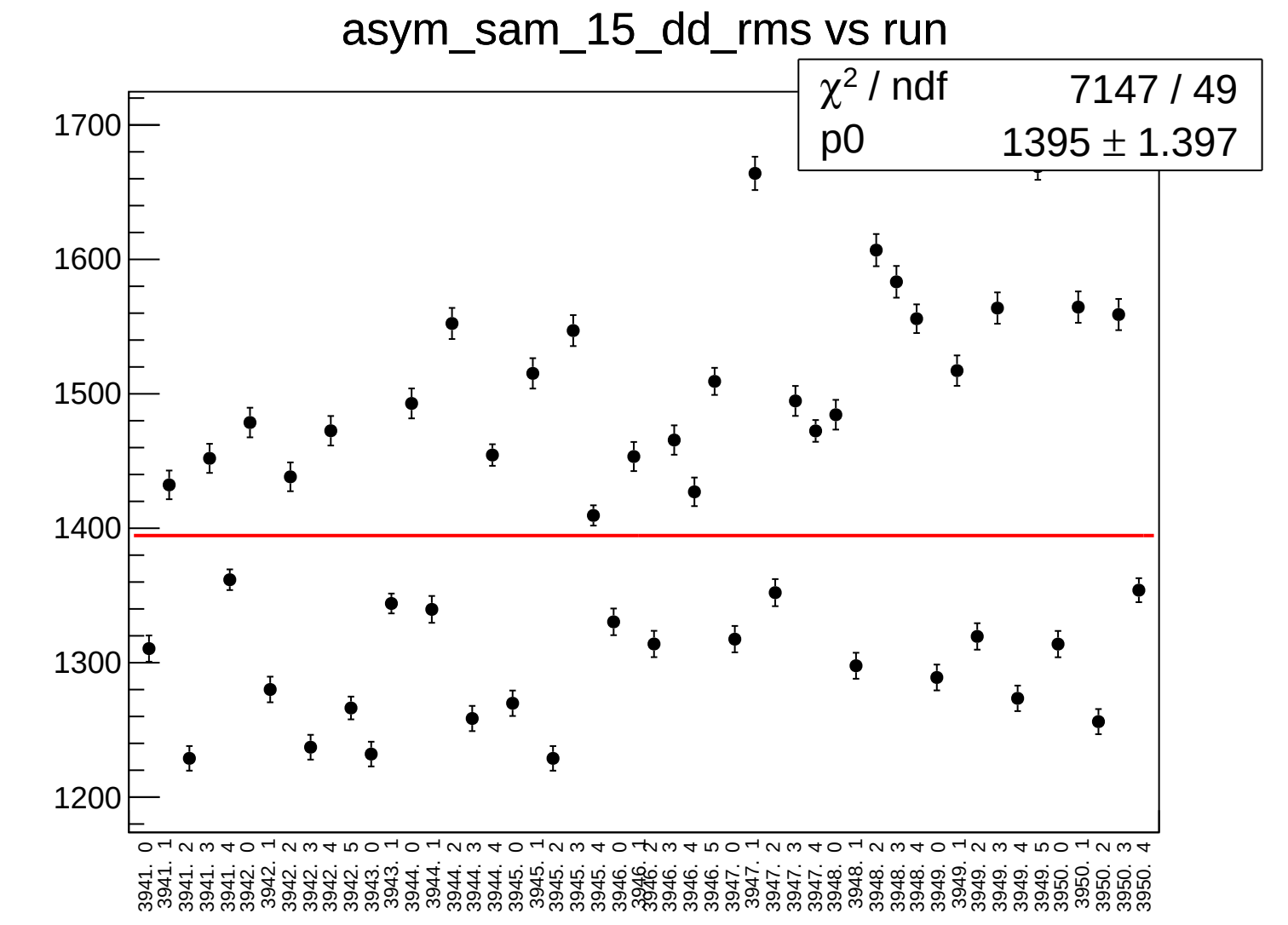

asym_sam_48_avg_correction_mean vs run
χ² / ndf 42.63 / 49
p0 −872.1± 2925
pull
Entries 50
Mean 21.36
Std Dev 12.95

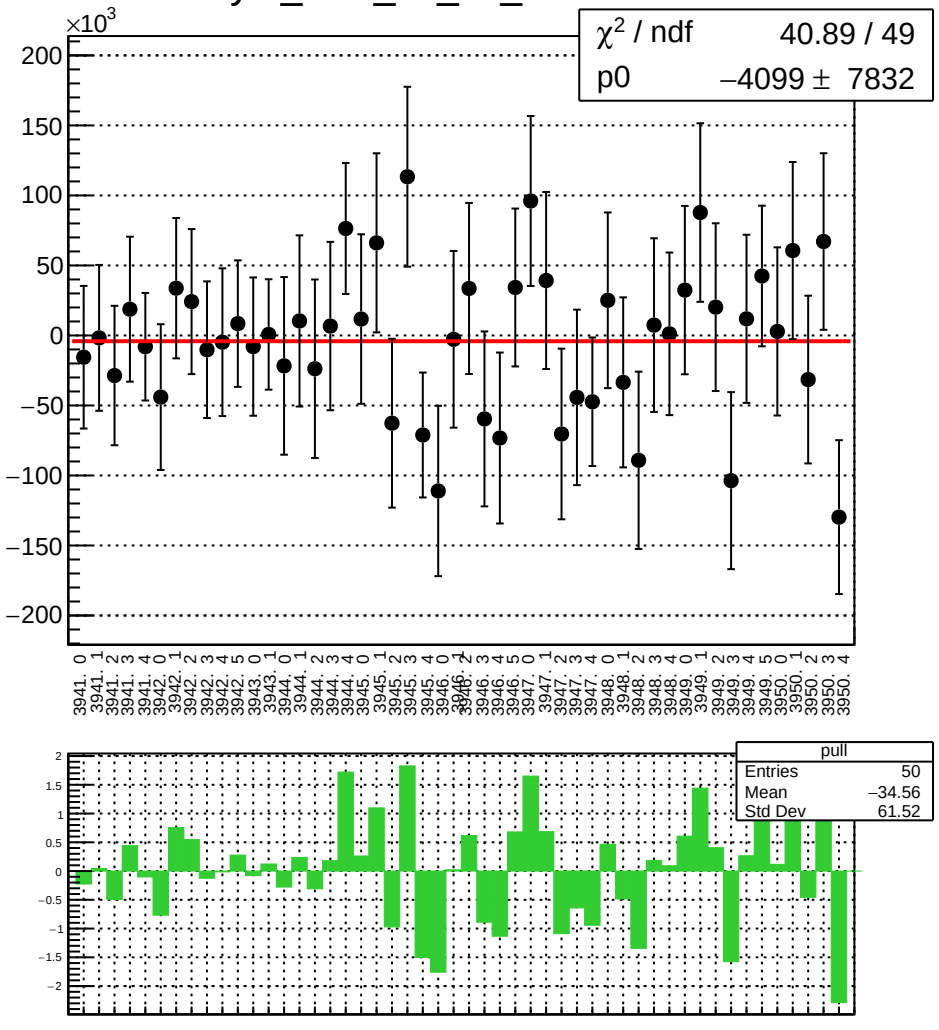

pull1D
Entries 50
Mean 0.02257
Std Dev 0.9231

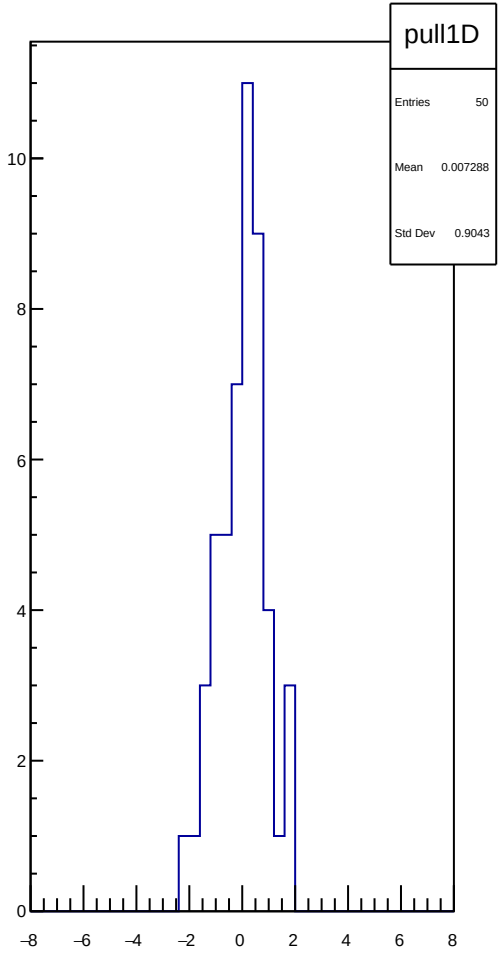

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1.593e+04 / 49
p0 2056 ± 2.068
2400
2300
2200
2100
2000
1900
1800
1700
1600
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

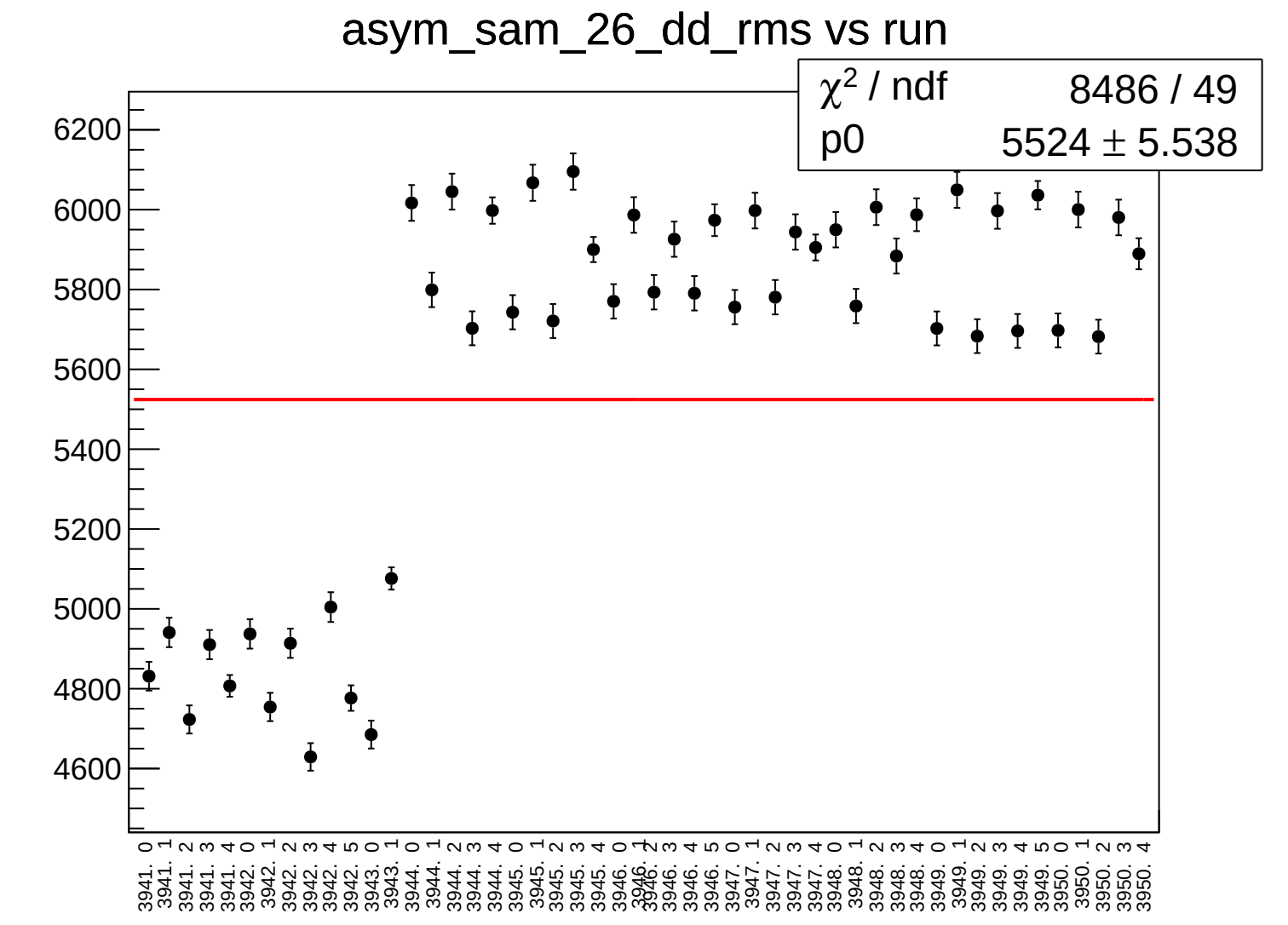

asym_sam_15_dd_mean vs run
χ² / ndf 55.41 / 49
p0 −3360 ± 1976
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 34.22
Std Dev 1.961
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

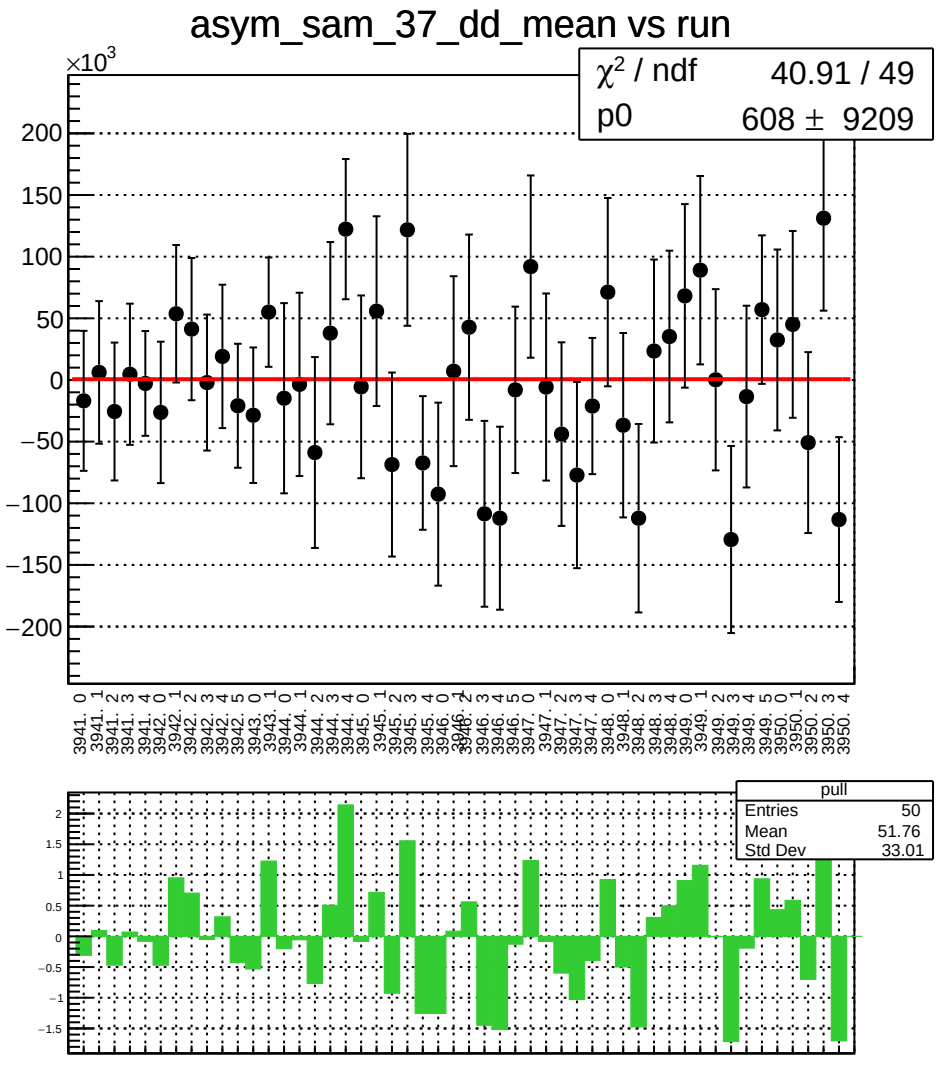

pull1D
Entries 50
Mean 0.05067
Std Dev 1.052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

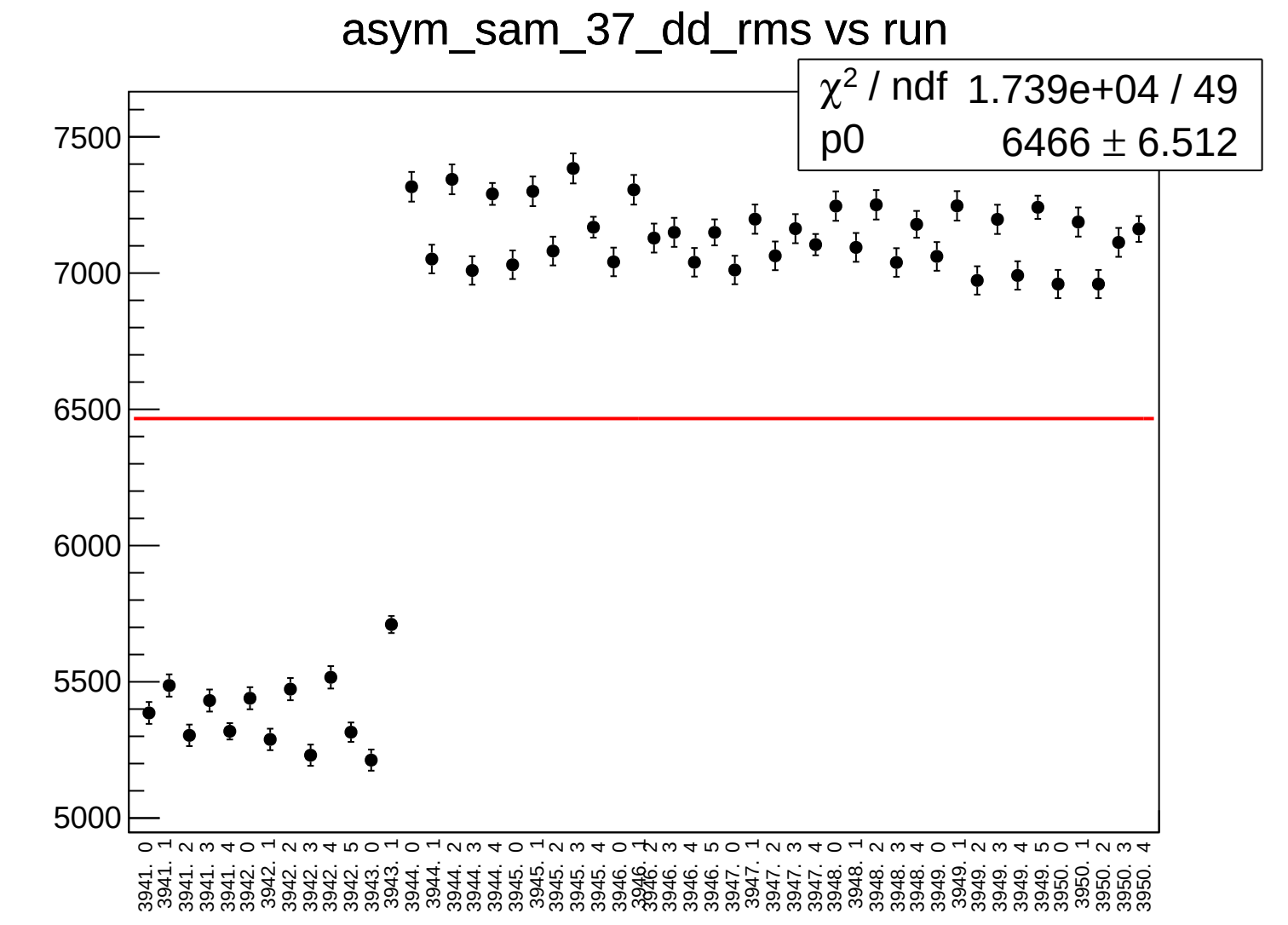

asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 7147 / 49
p0 1395 ± 1.397
1700
1600
1500
1400
1300
1200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

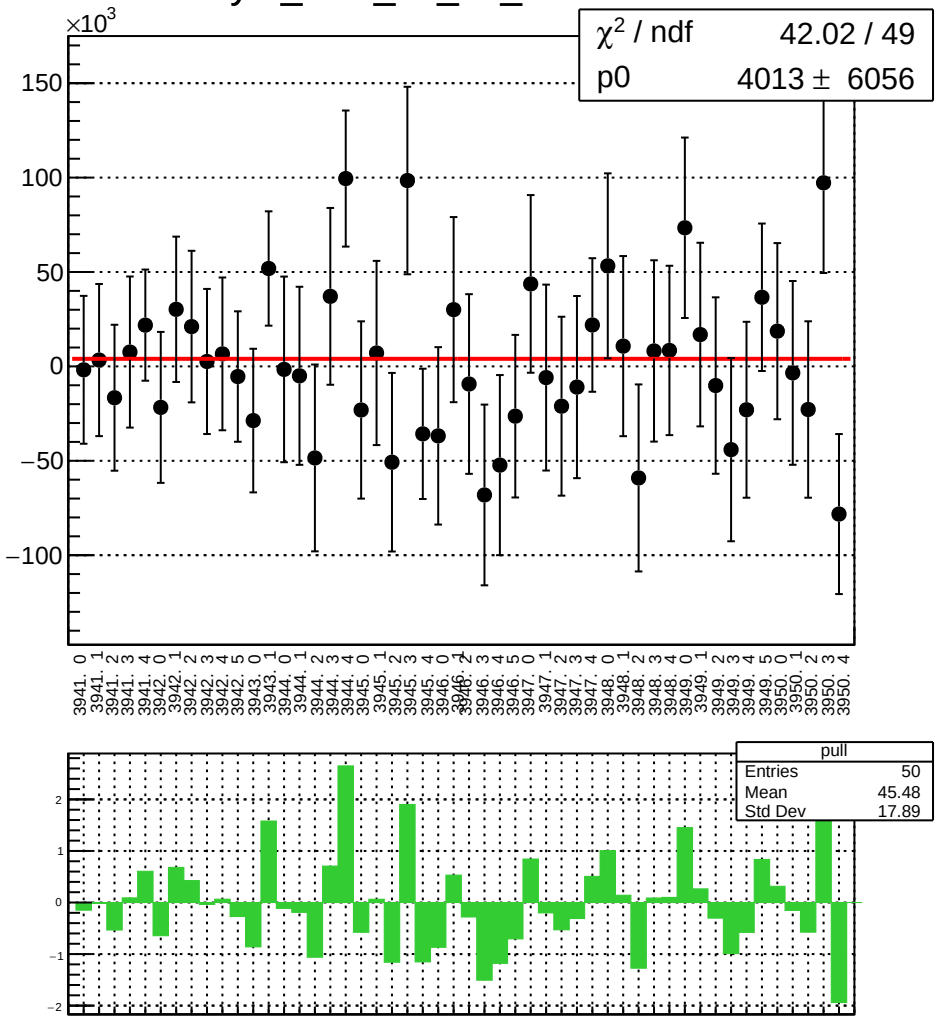

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 40.89 / 49
p0 −4099 ± 7832
pull
Entries 50
Mean −34.56
Std Dev 61.52

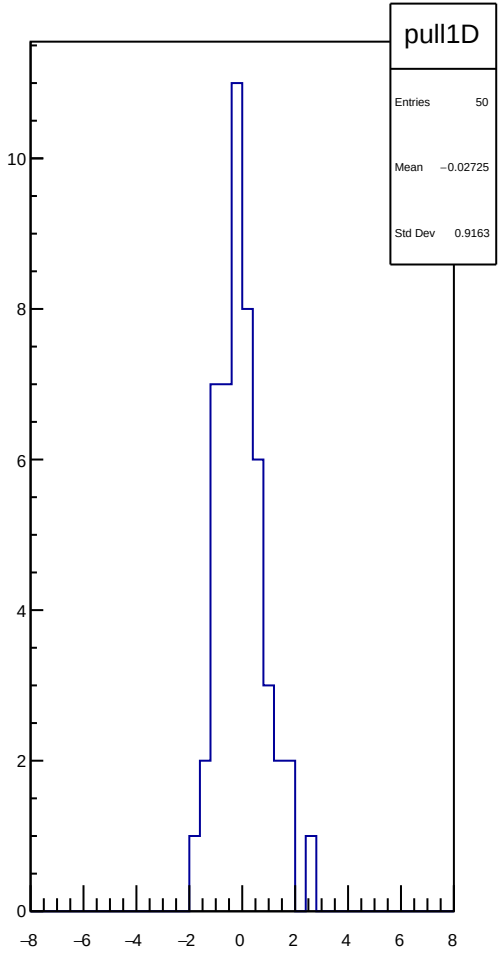

pull1D
Entries 50
Mean 0.007288
Std Dev 0.9043

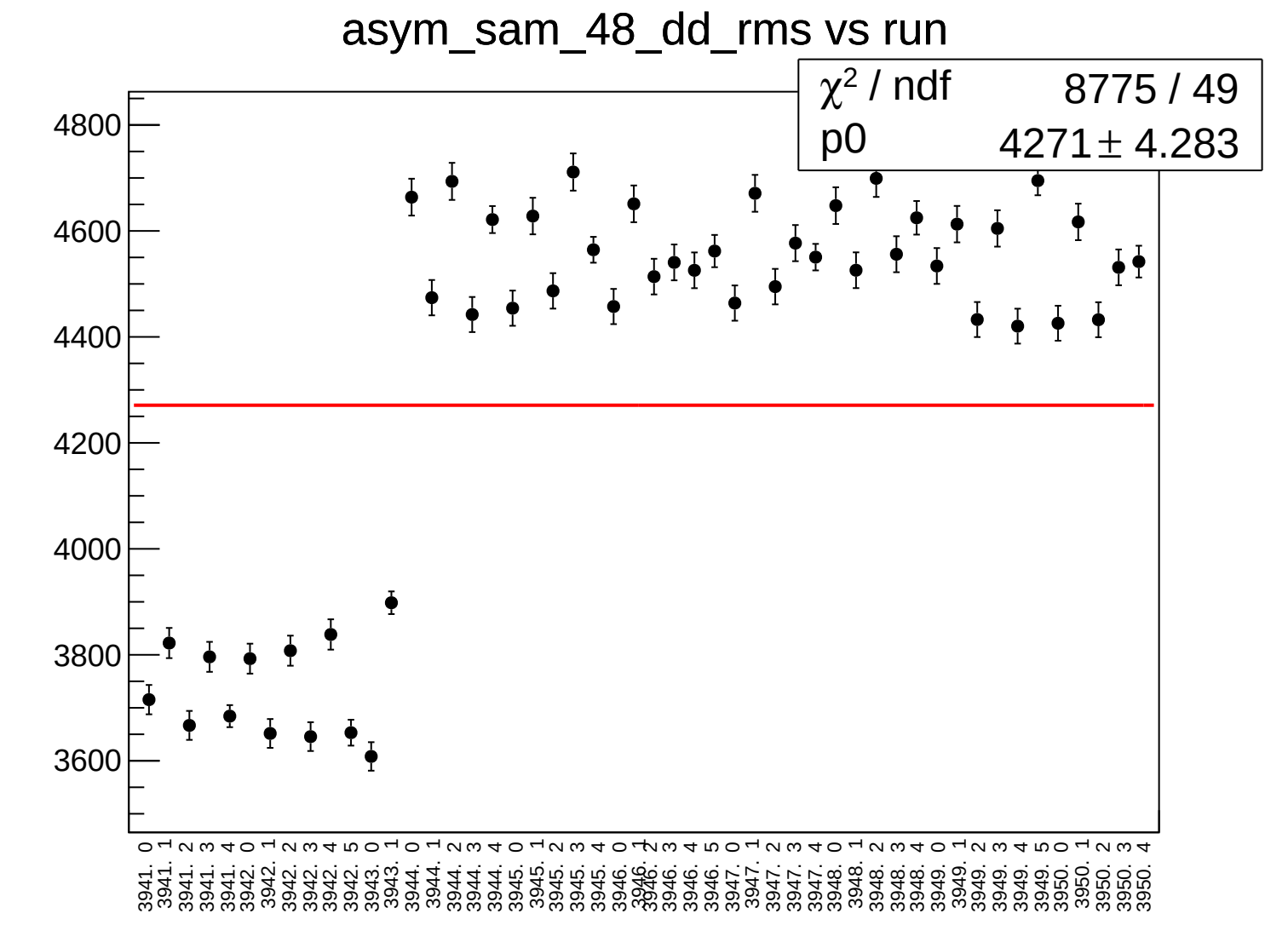

asym_sam_26_dd_rms vs run
χ² / ndf 8486 / 49
p0 5524 ± 5.538
6200
6000
5800
5600
5400
5200
5000
4800
4600
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

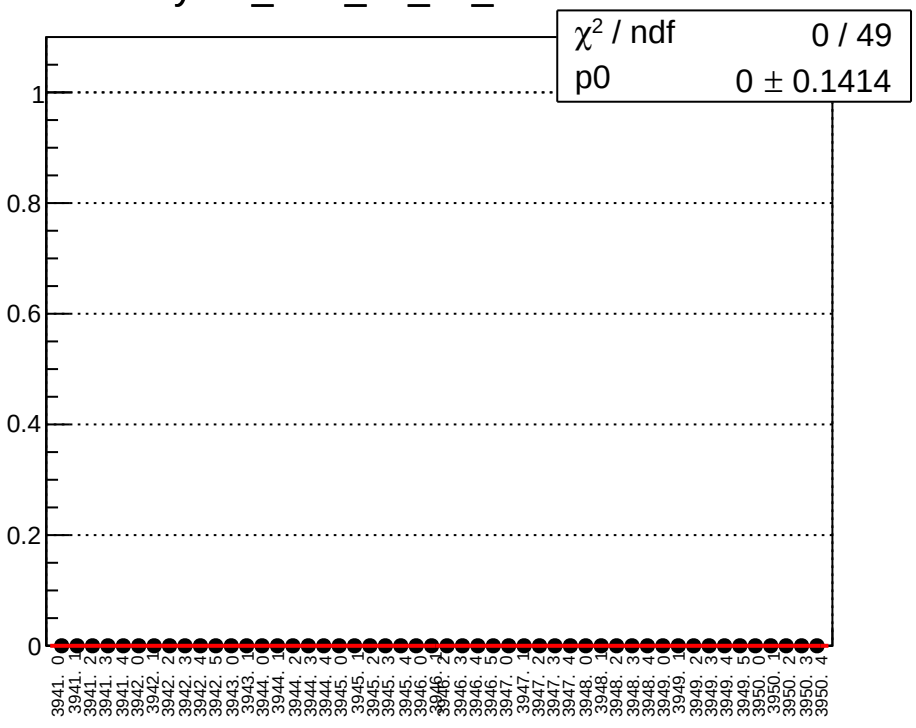

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 40.91 / 49
p0 608 ± 9209
200
150
100
50
0
−50
−100
−150
−200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 51.76
Std Dev 33.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.01409
Std Dev 0.9044
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

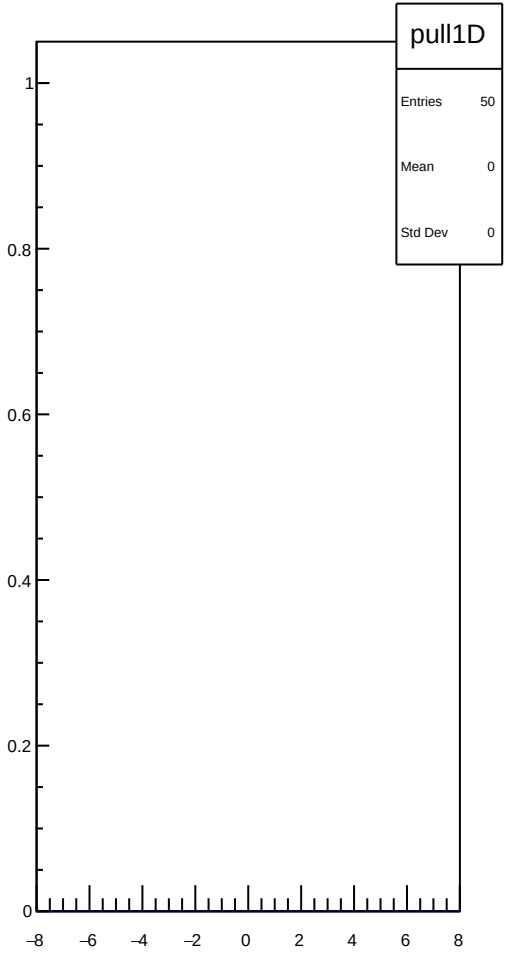

asym_sam_37_dd_rms vs run
χ² / ndf 1.739e+04 / 49
p0 6466 ± 6.512
7500
7000
6500
6000
5500
5000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

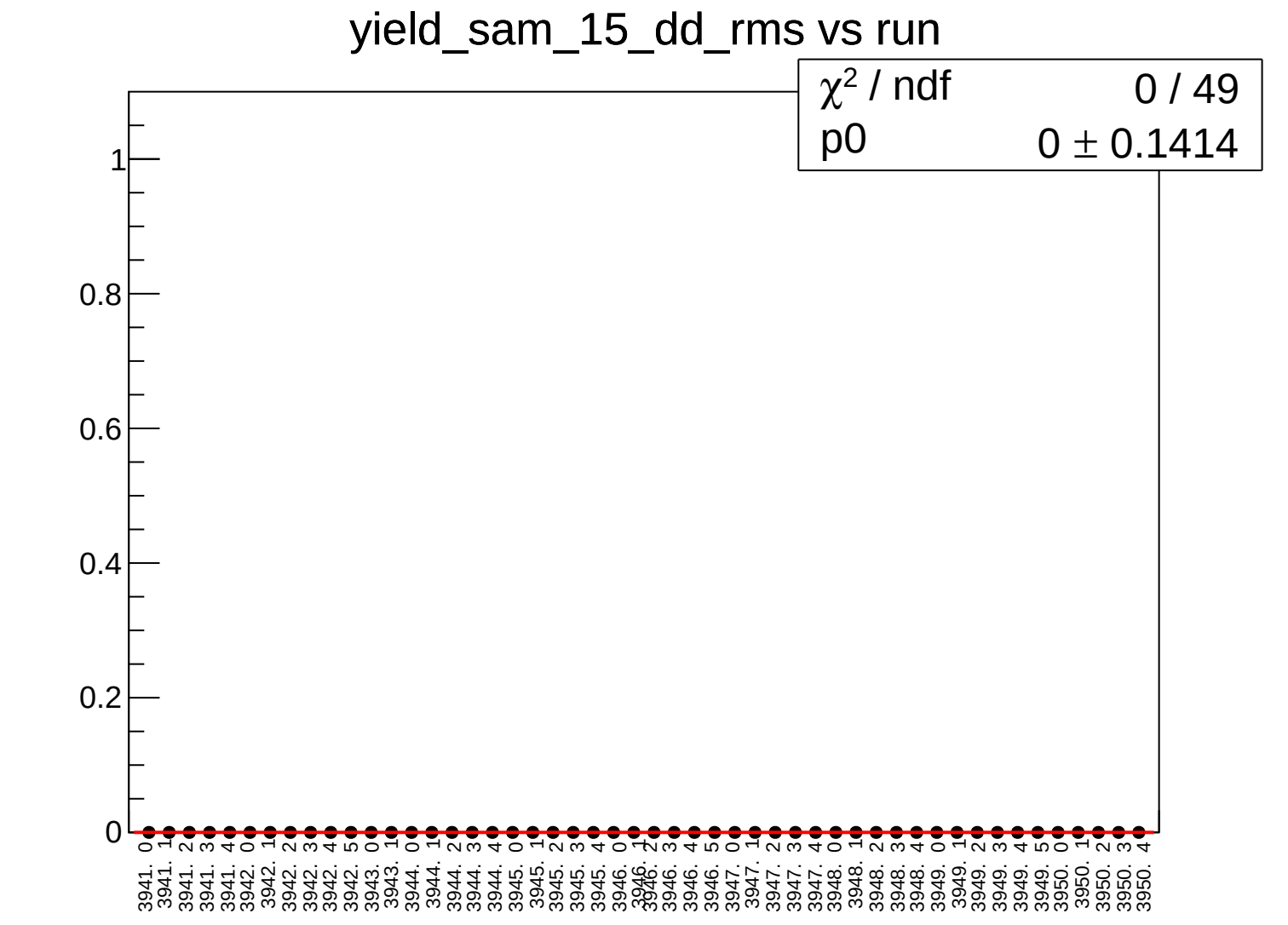

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 42.02 / 49
p0 4013 ± 6056
150
100
50
0
−50
−100
pull
Entries 50
Mean 45.48
Std Dev 17.89
2
1
0
−1
−2

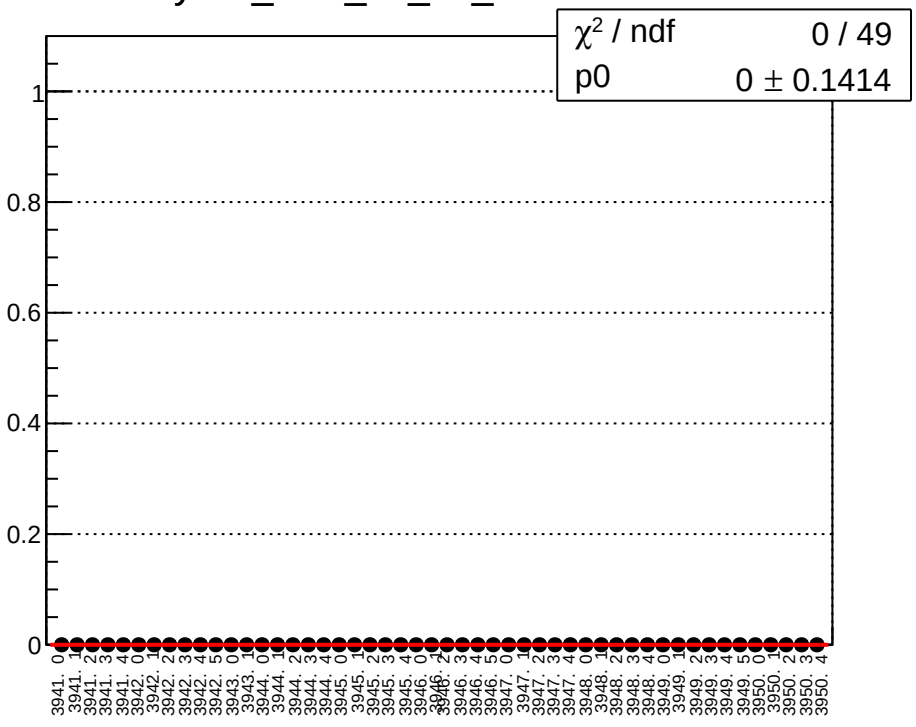

pull1D
Entries 50
Mean −0.02725
Std Dev 0.9163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

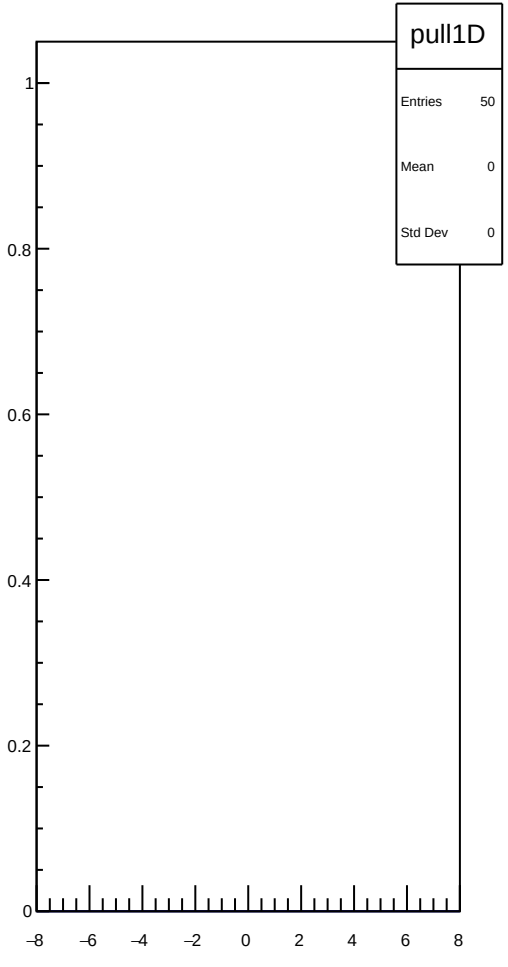

asym_sam_48_dd_rms vs run
χ² / ndf 8775 / 49
p0 4271 ± 4.283
4800
4600
4400
4200
4000
3800
3600
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

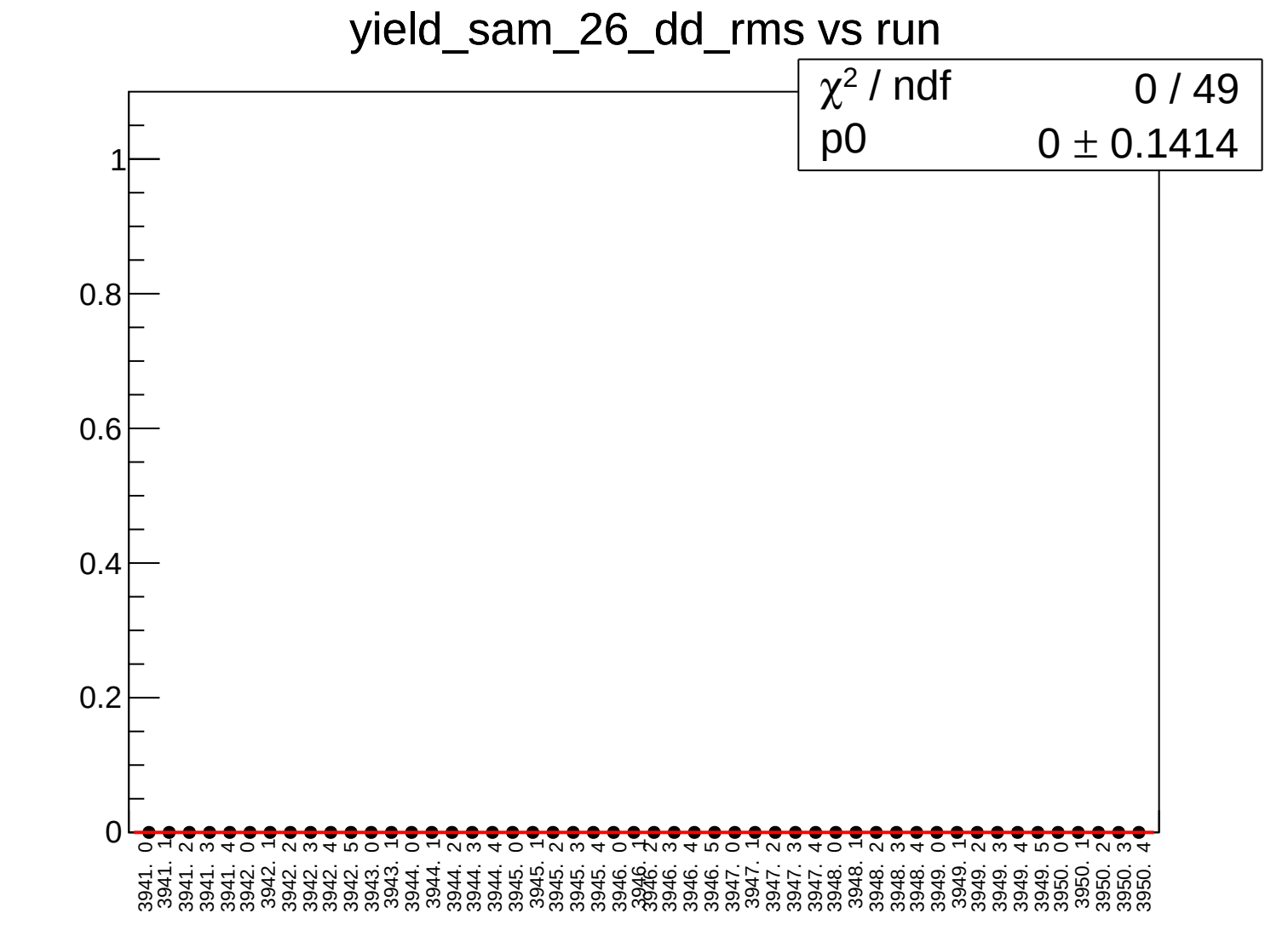

yield_sam_15_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

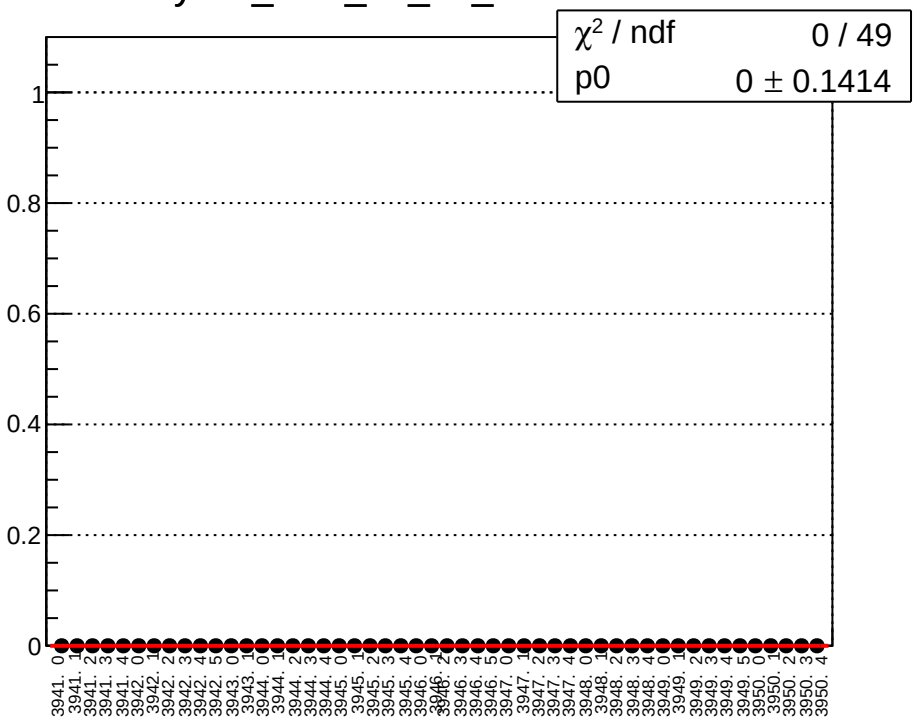

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

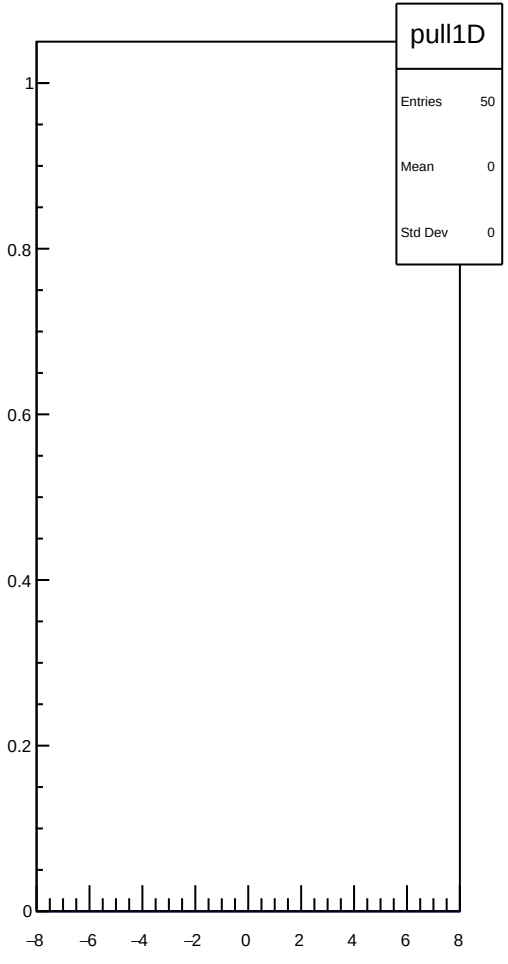

yield_sam_15_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

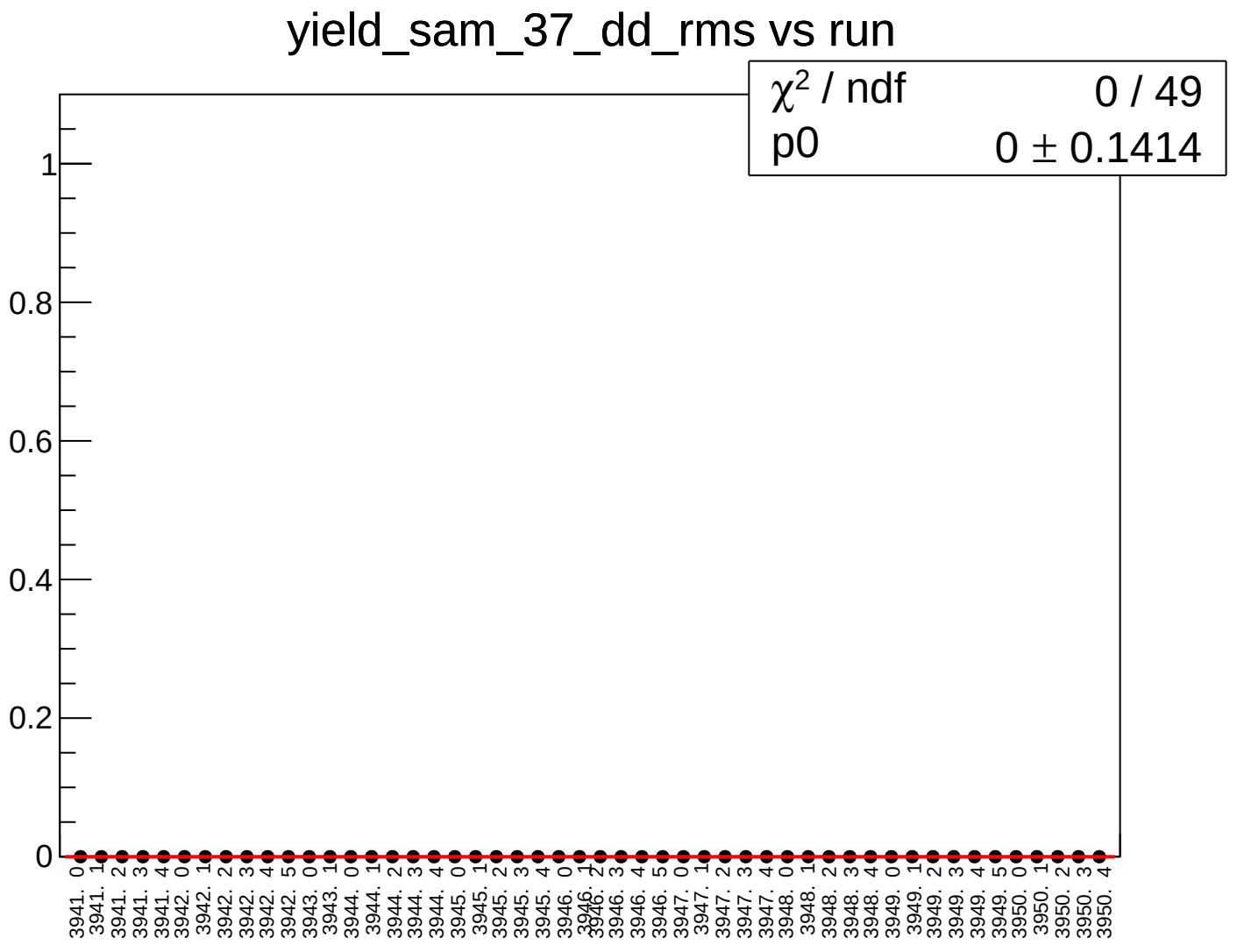

yield_sam_26_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

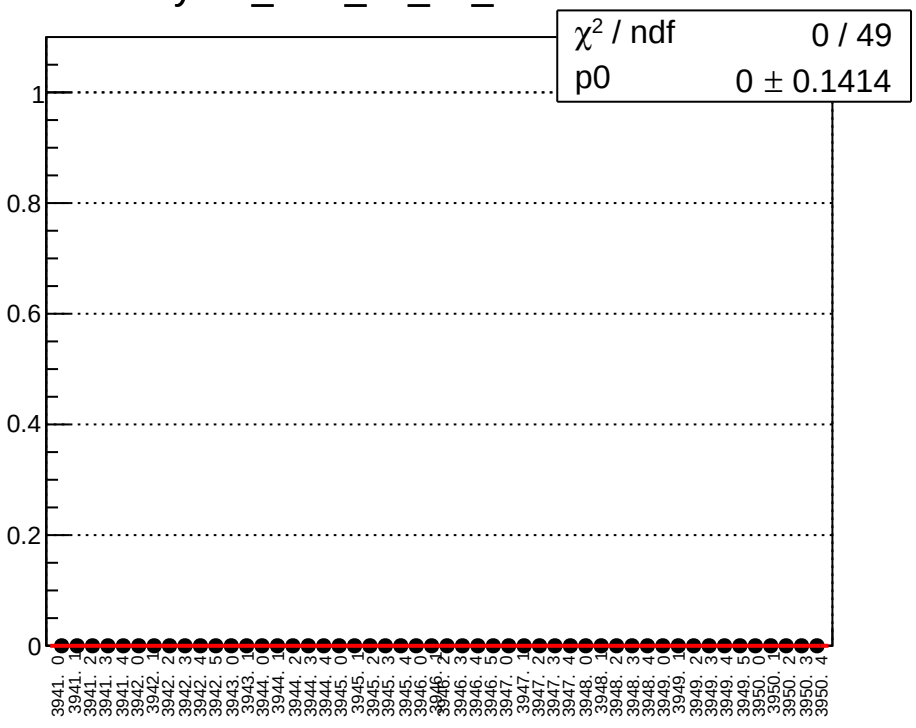

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

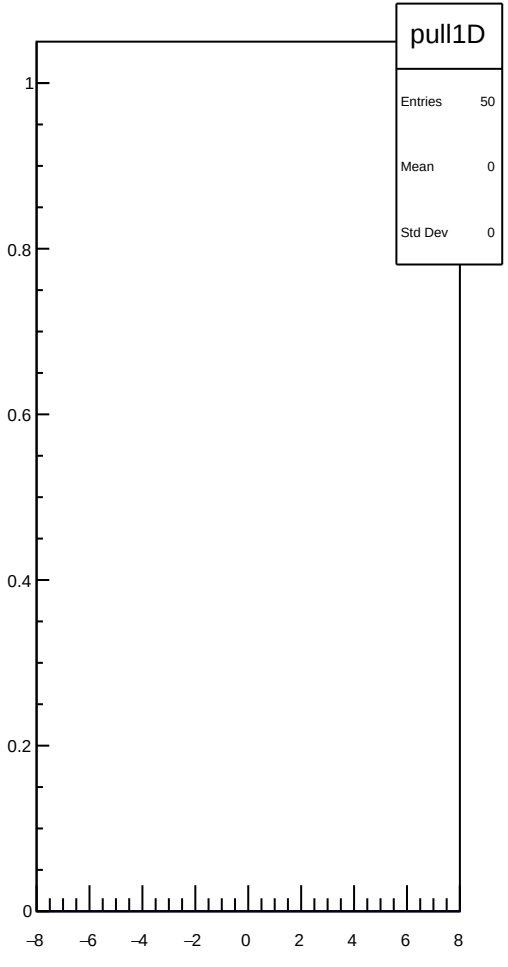

yield_sam_26_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

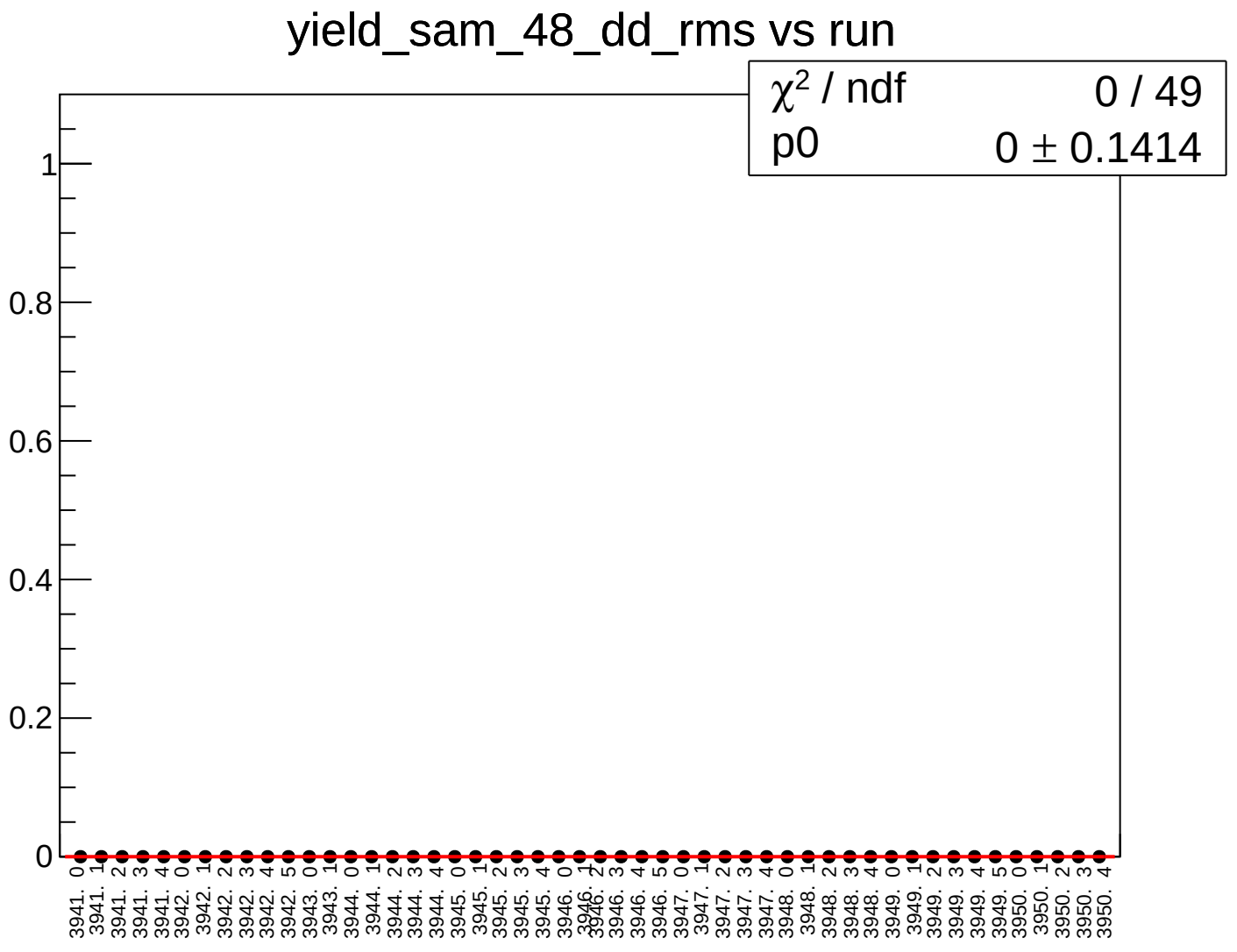

yield_sam_37_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
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_sam_37_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


yield_sam_48_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
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_sam_48_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 3
3949. 4
3949. 5
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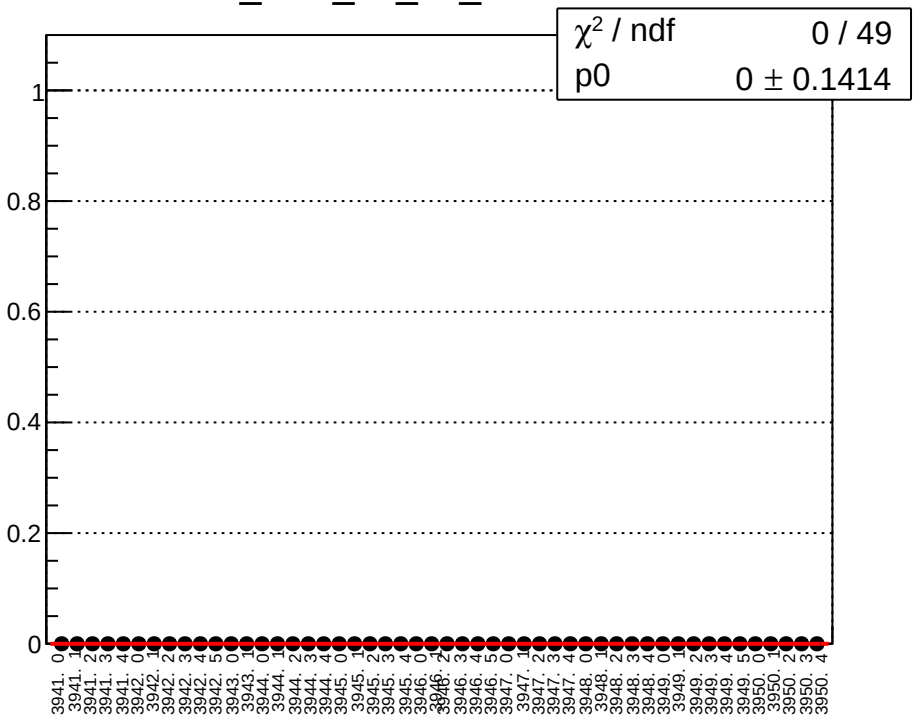
3950. 1
3950. 2
3950. 3
3950. 4


cor_sam_15_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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3949. 3
3949. 4
3949. 5
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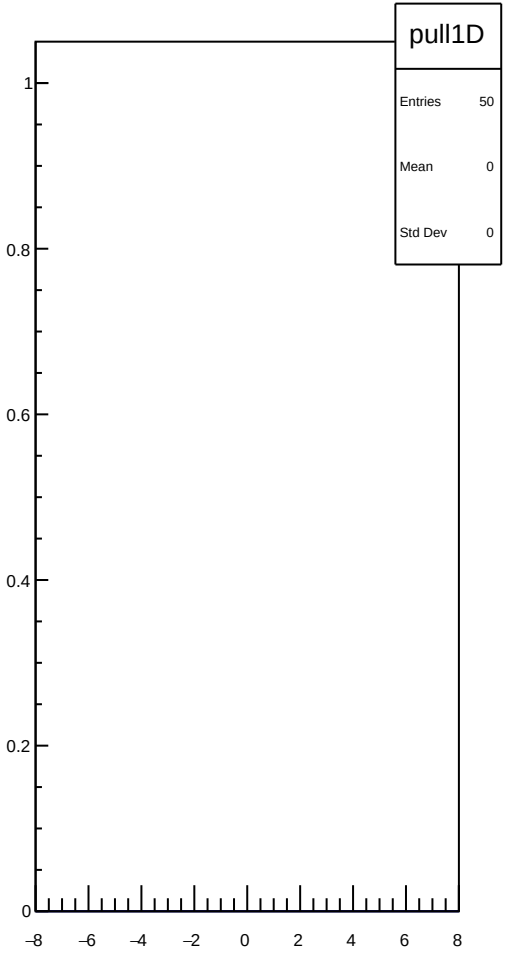
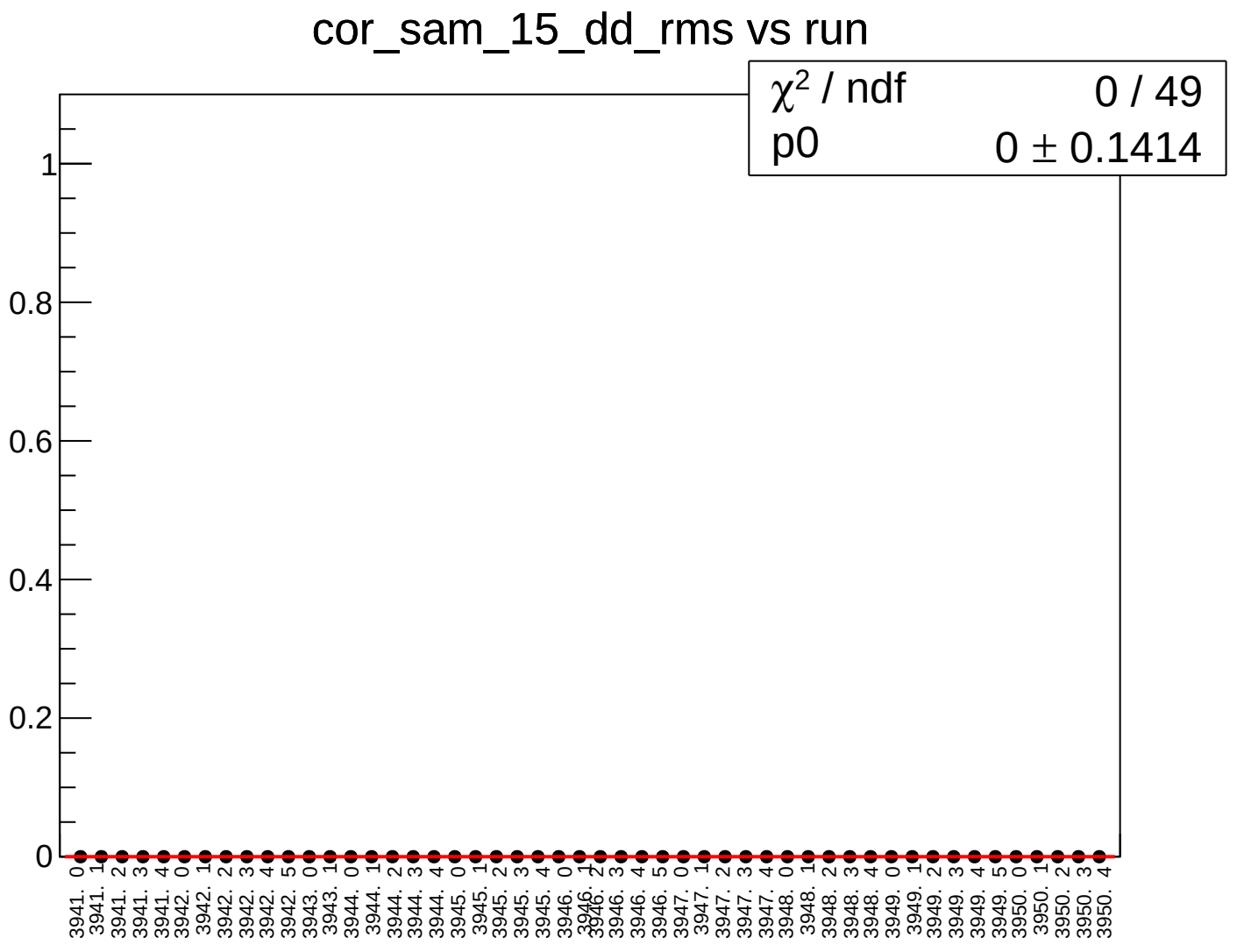
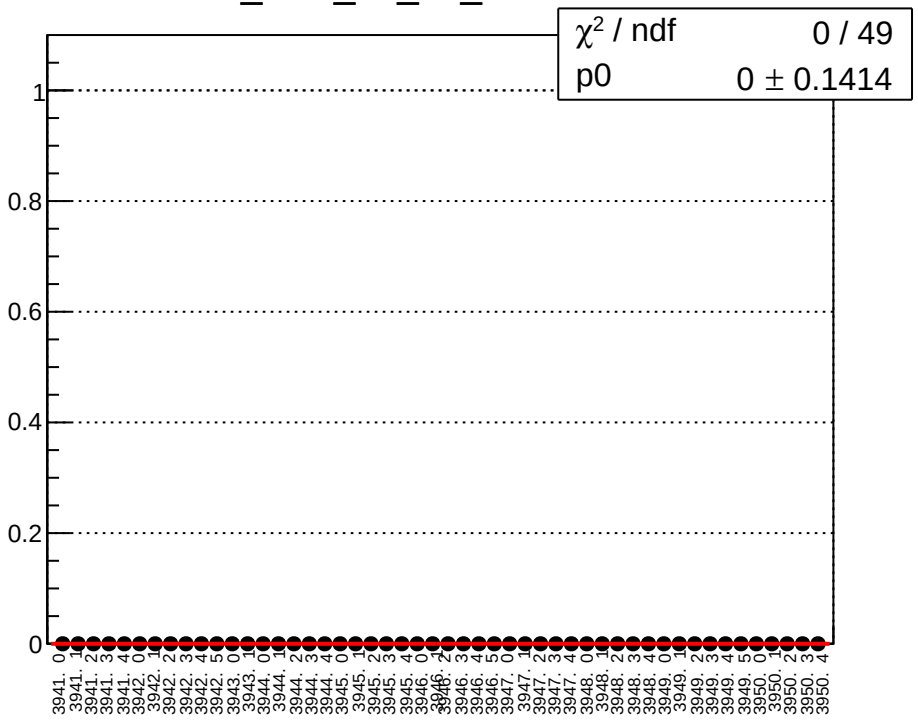
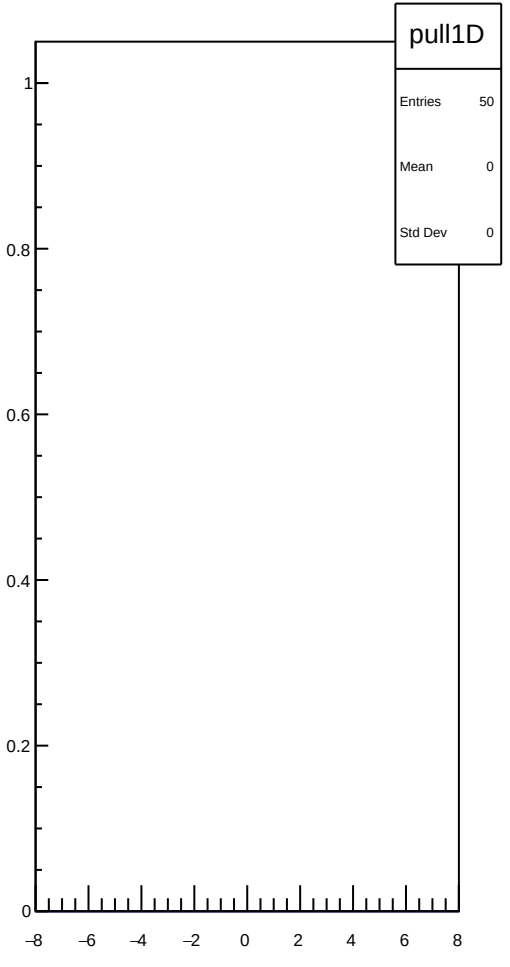
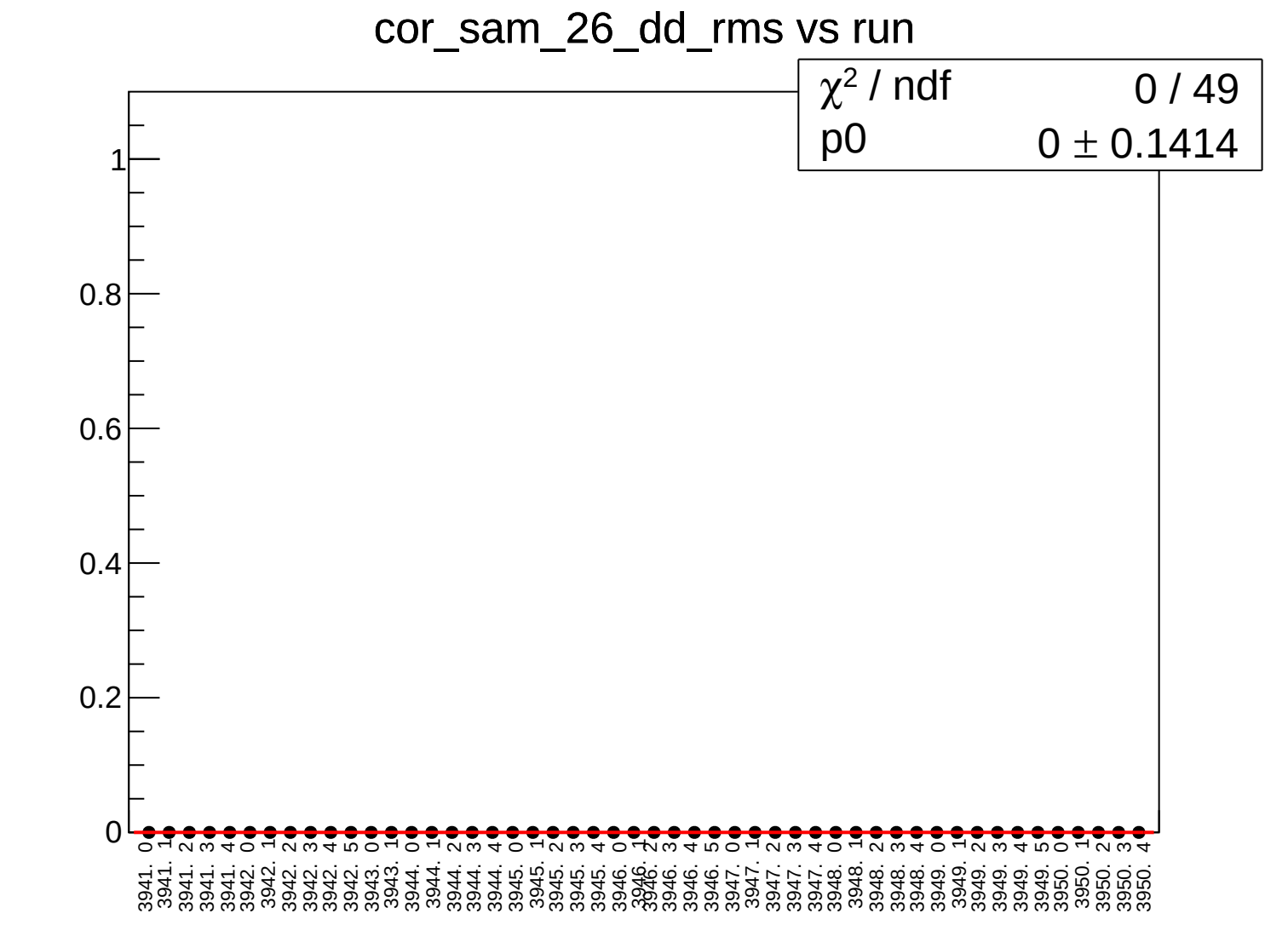
3950. 1
3950. 2
3950. 3
3950. 4

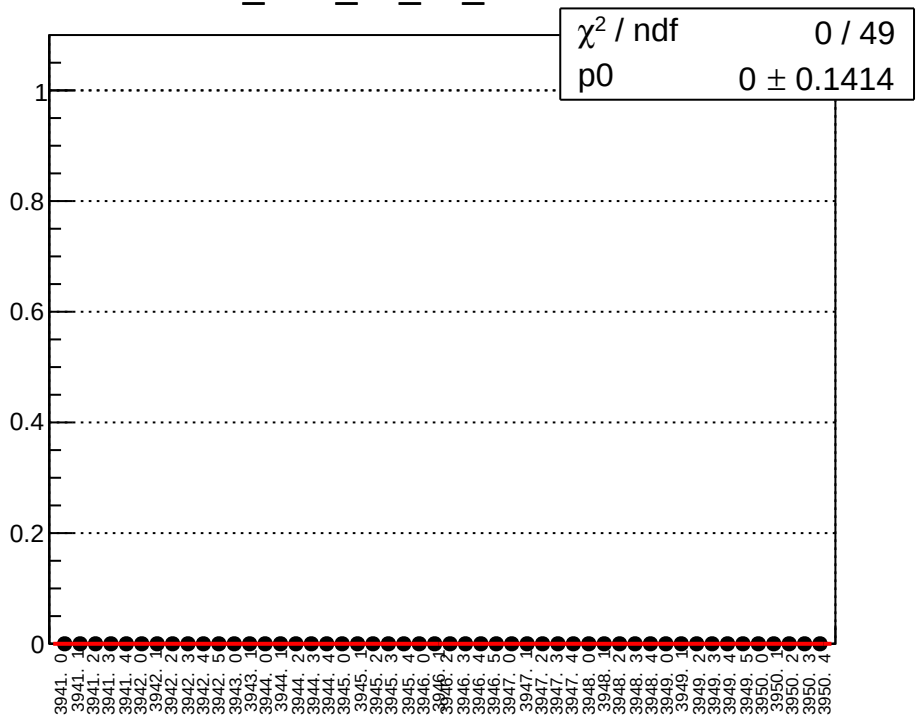

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

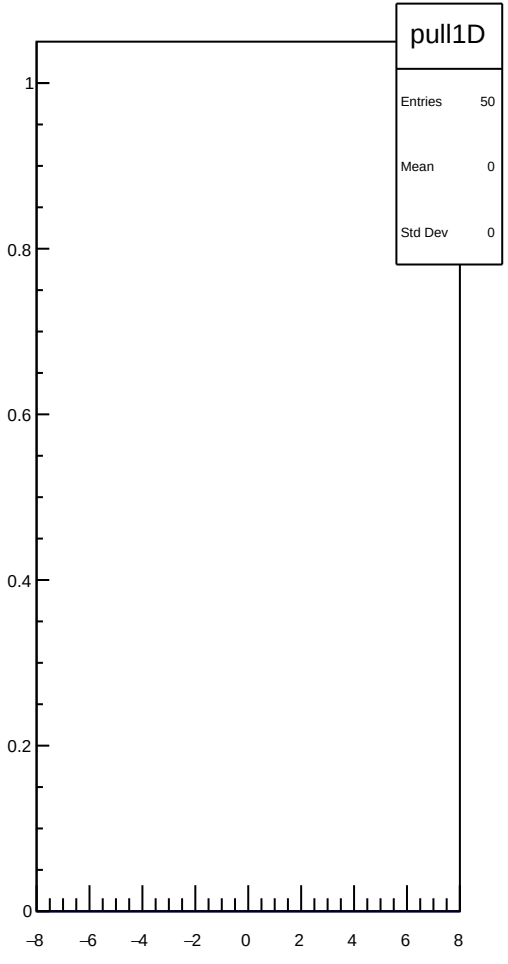

cor_sam_15_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

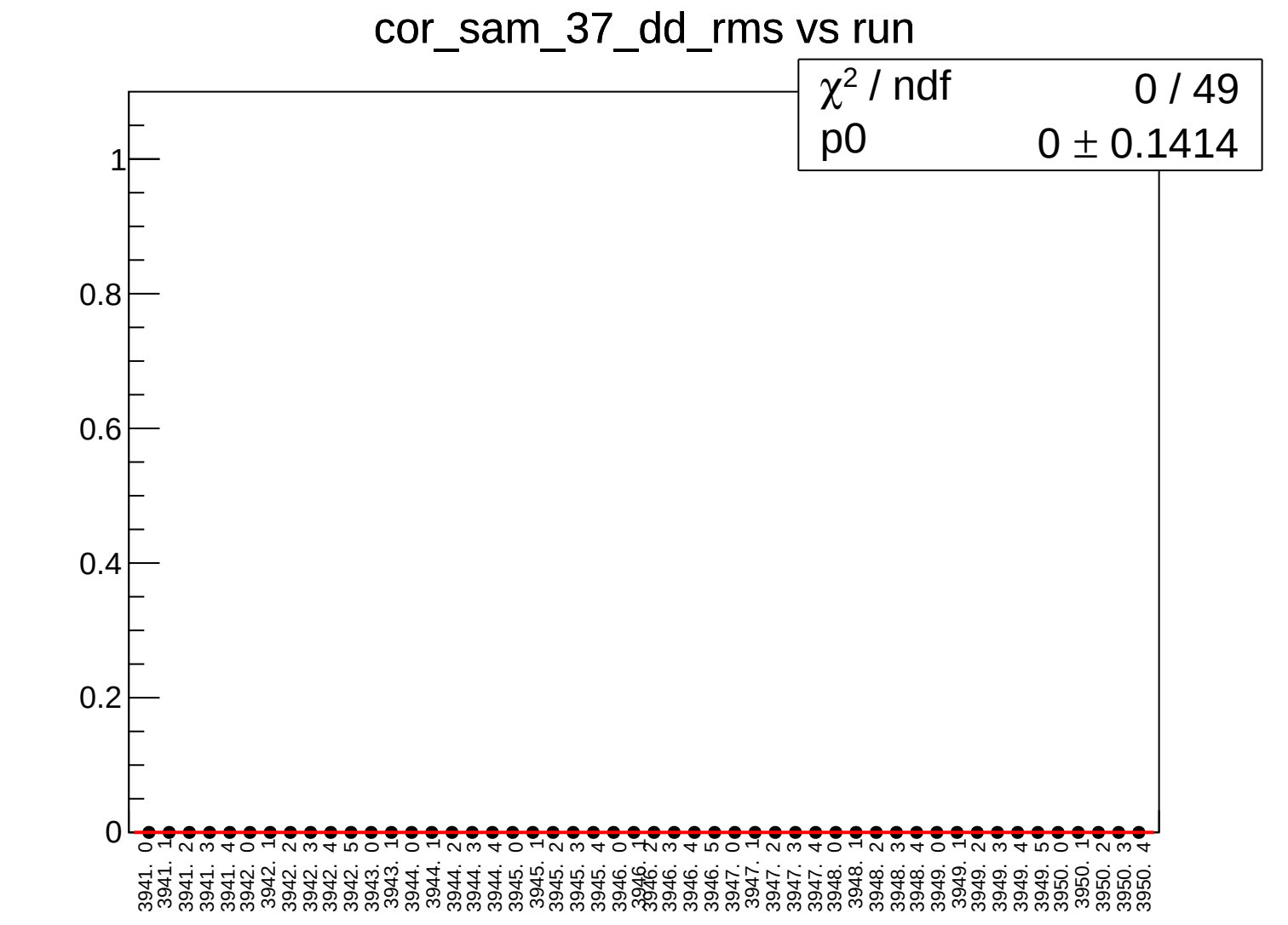

cor_sam_26_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

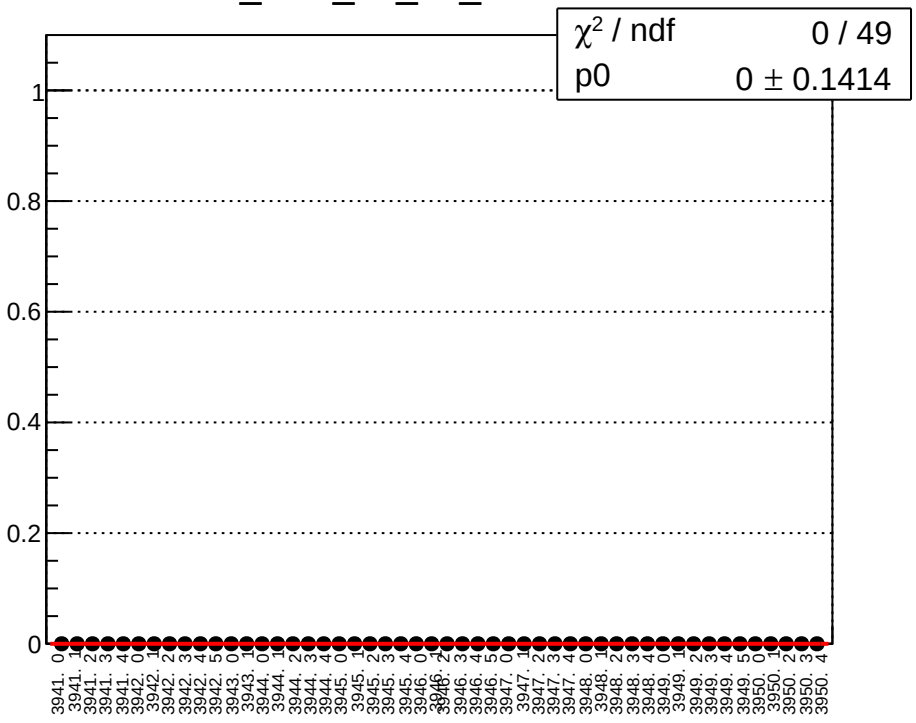

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

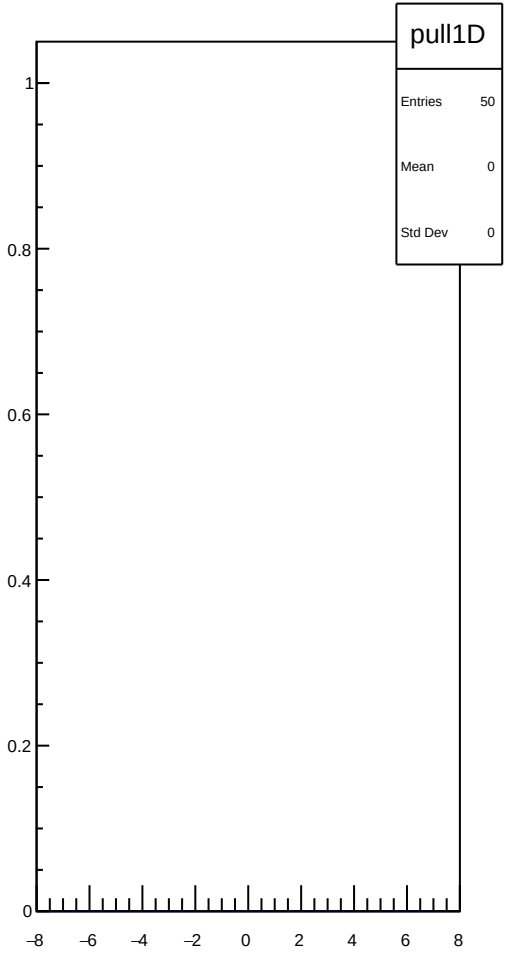

cor_sam_26_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

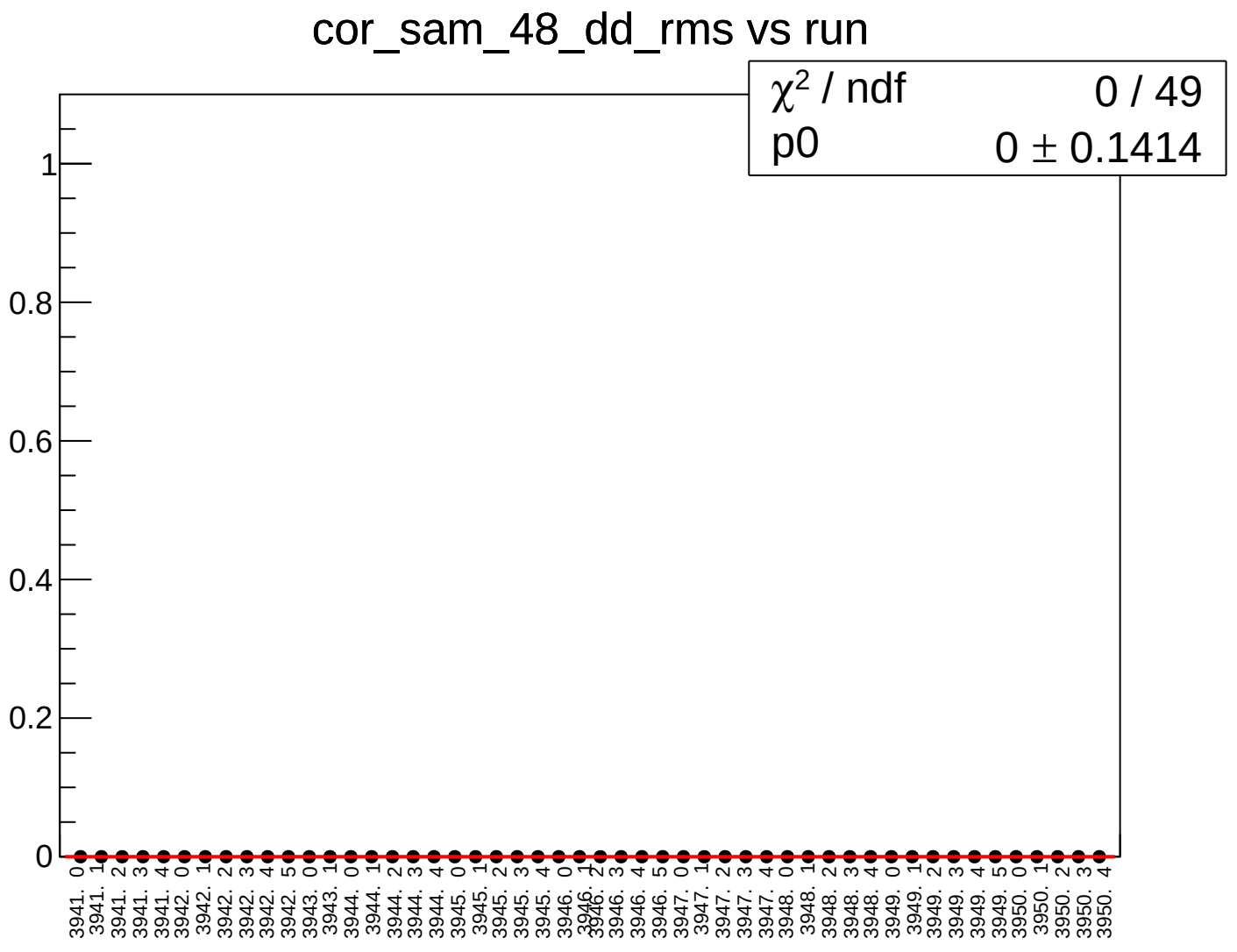

cor_sam_37_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

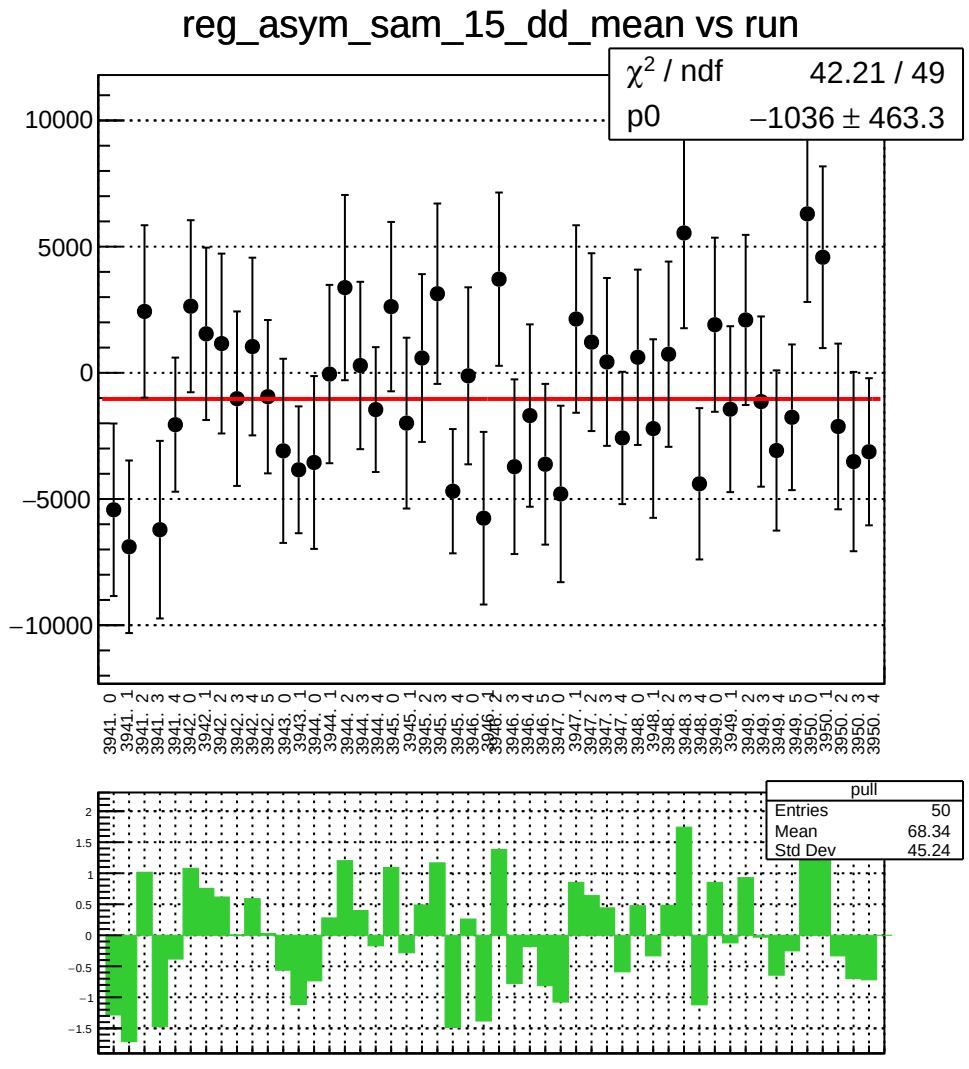

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

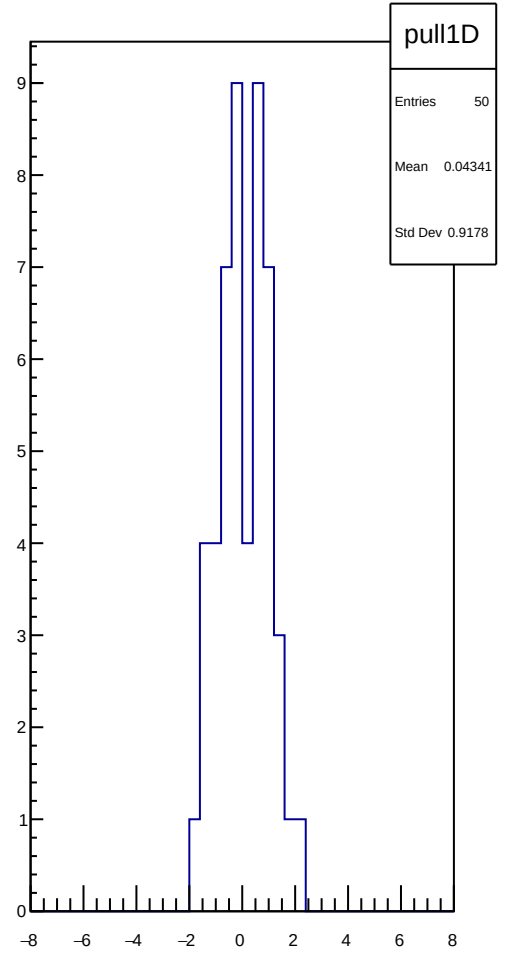

cor_sam_37_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

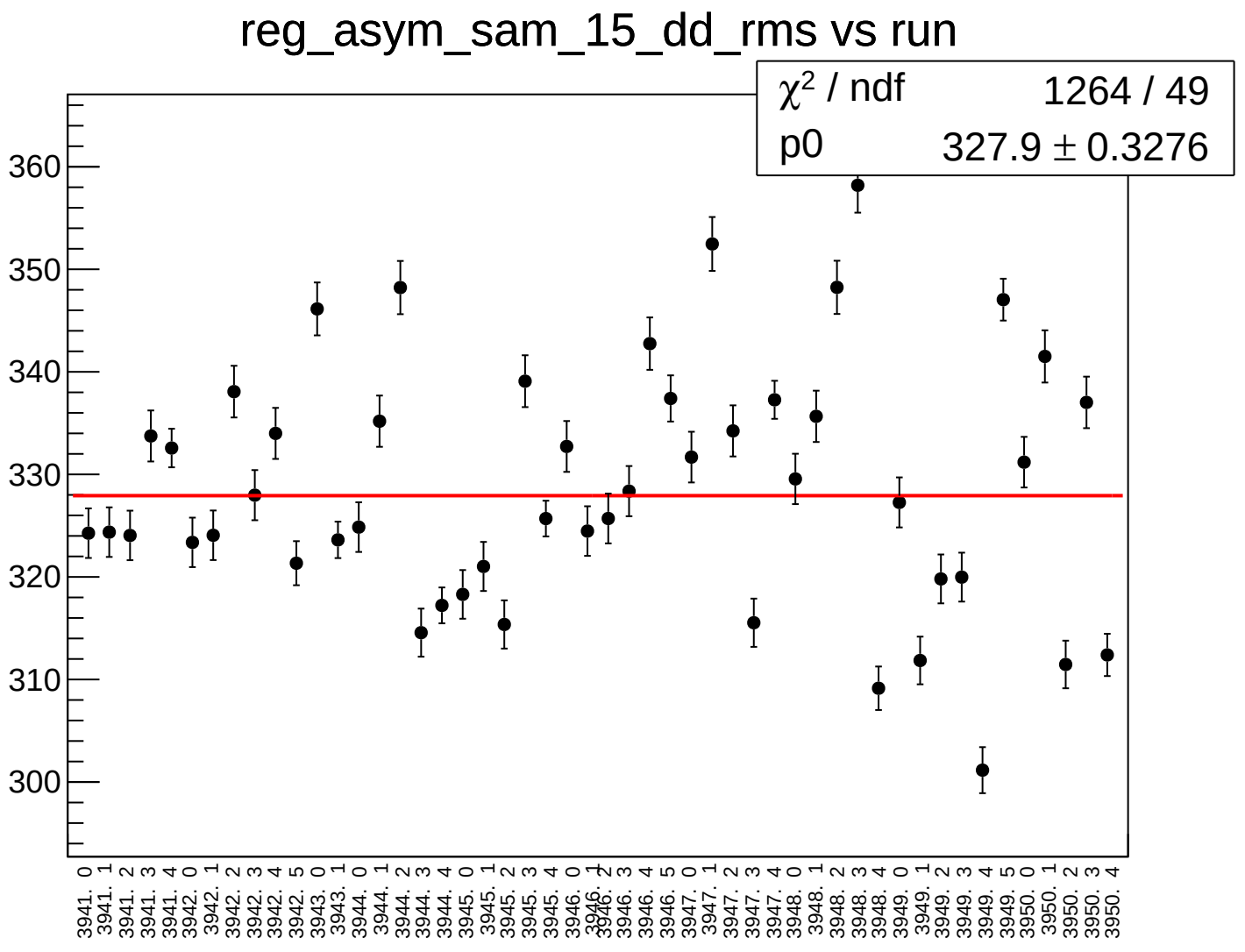

cor_sam_48_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

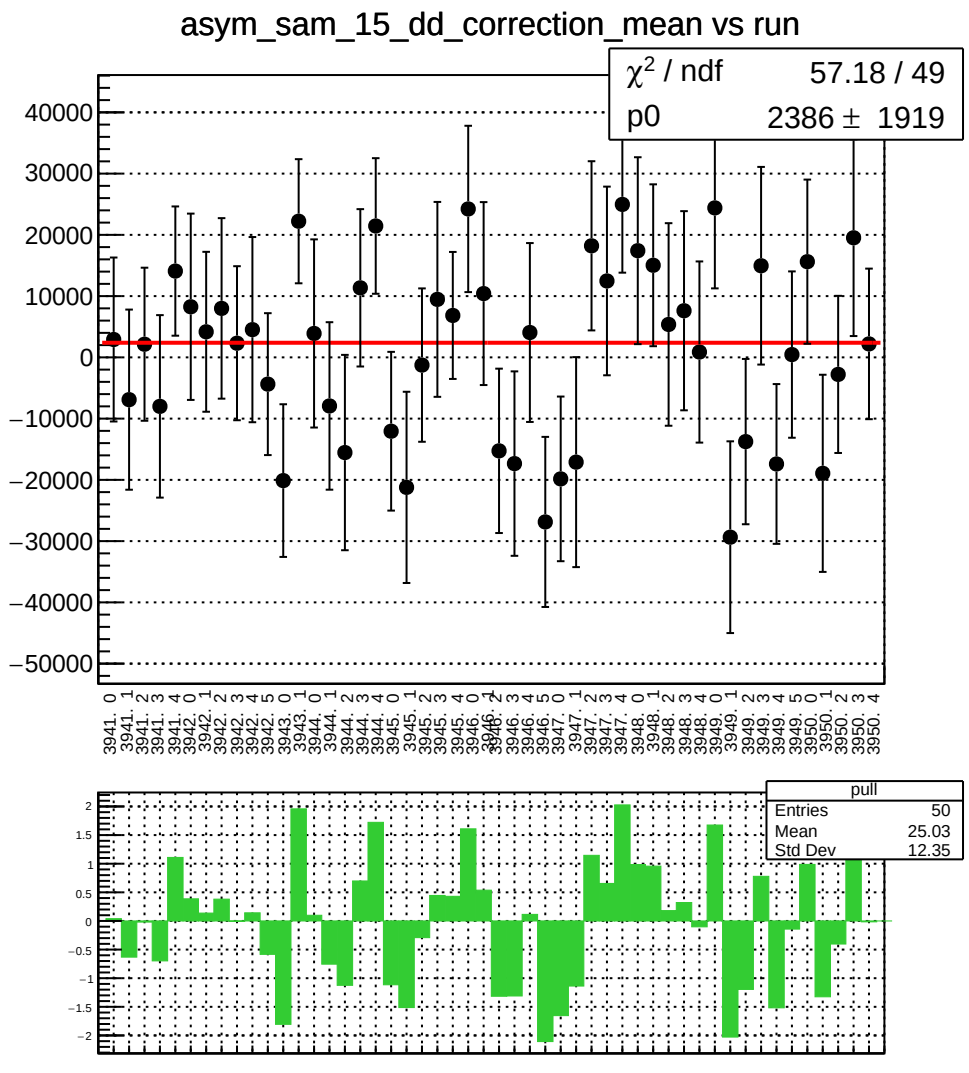

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

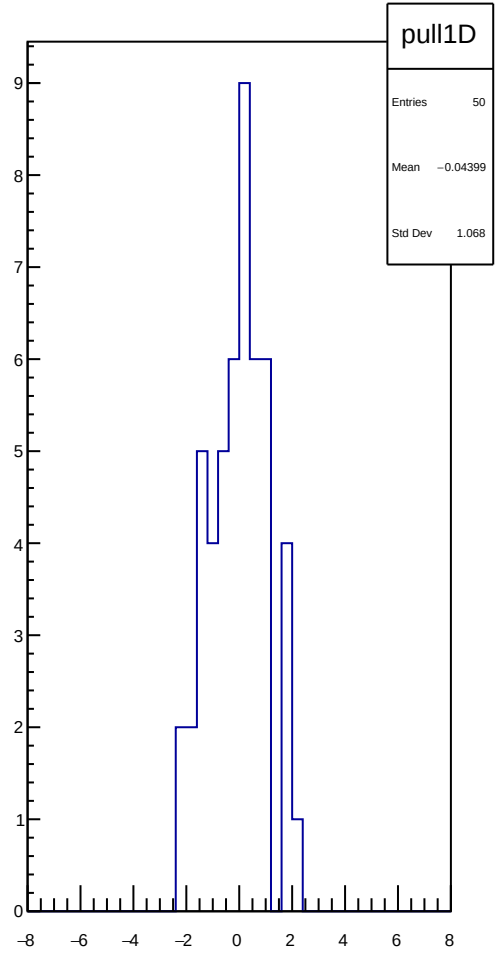

cor_sam_48_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

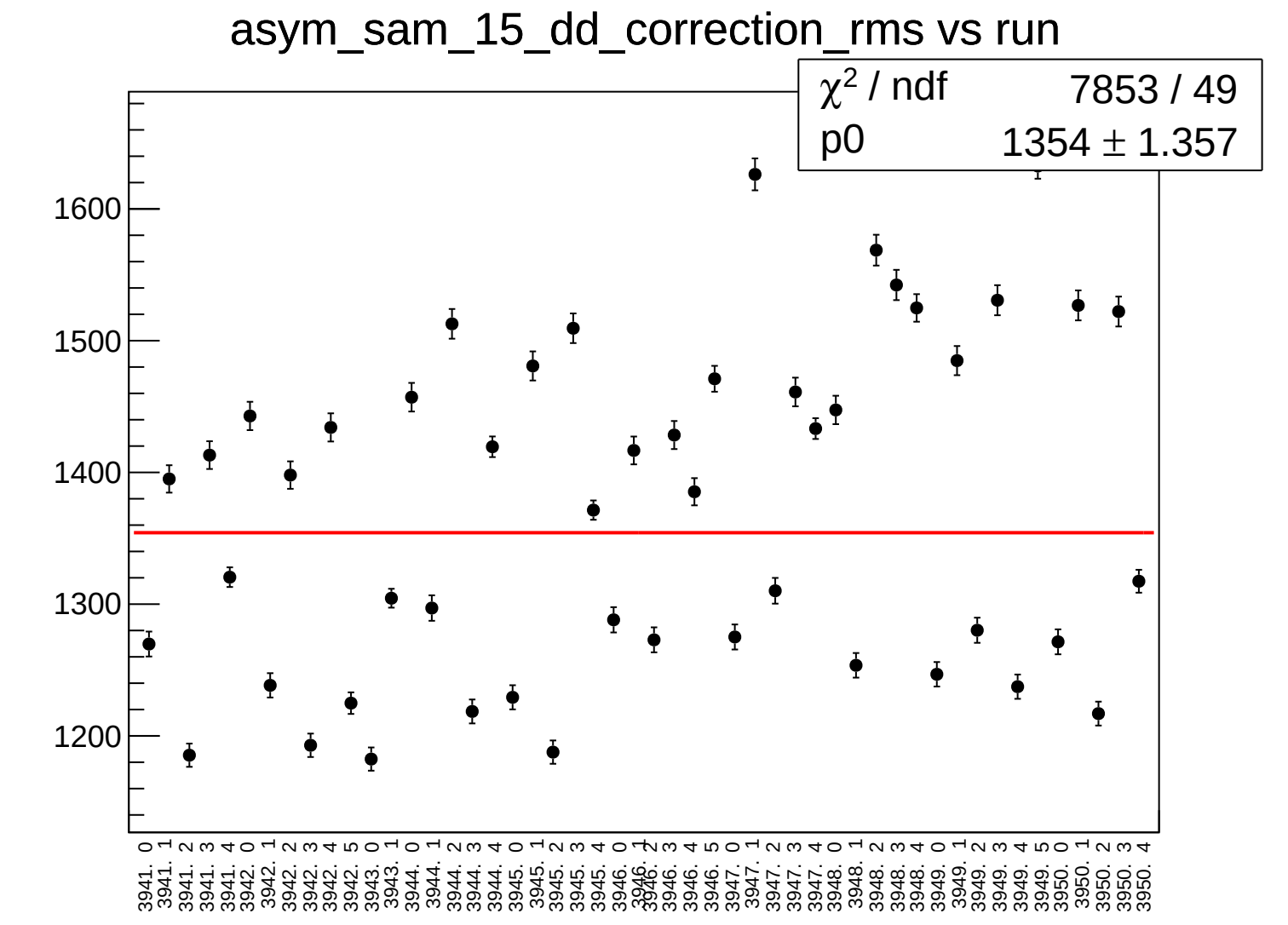

reg_asym_sam_15_dd_mean vs run
χ² / ndf 42.21 / 49
p0 −1036 ± 463.3
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 68.34
Std Dev 45.24
2
1.5
1
0.5
0
−0.5
−1
−1.5

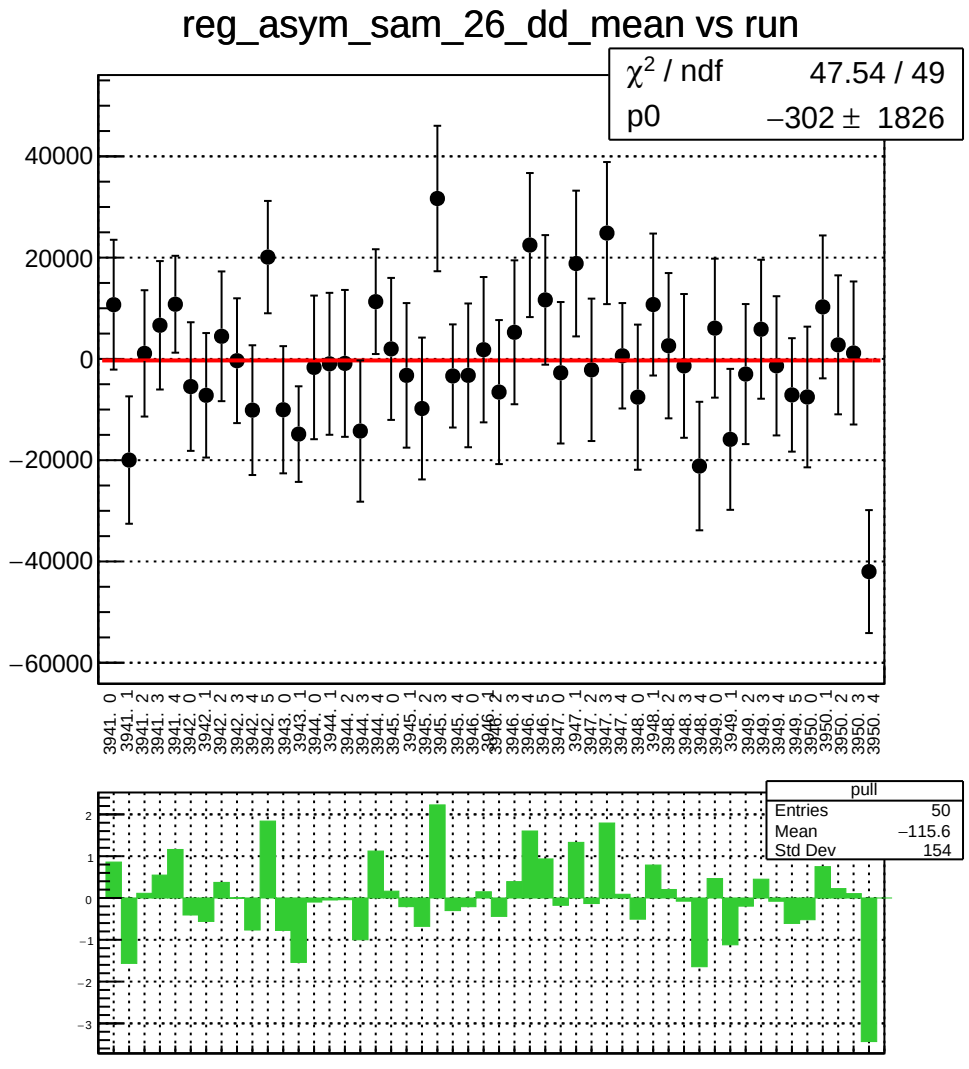

pull1D
Entries 50
Mean 0.04341
Std Dev 0.9178
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

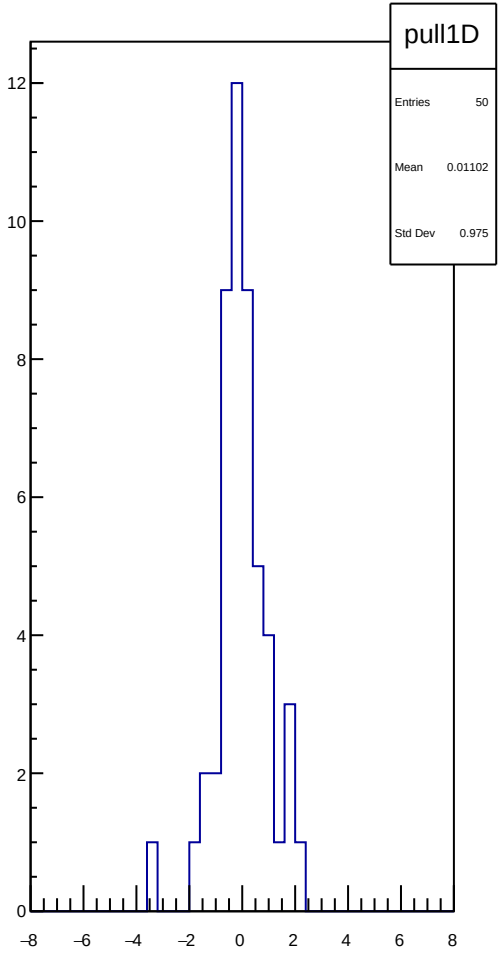

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1264 / 49
p0 327.9 ± 0.3276
360
350
340
330
320
310
300
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

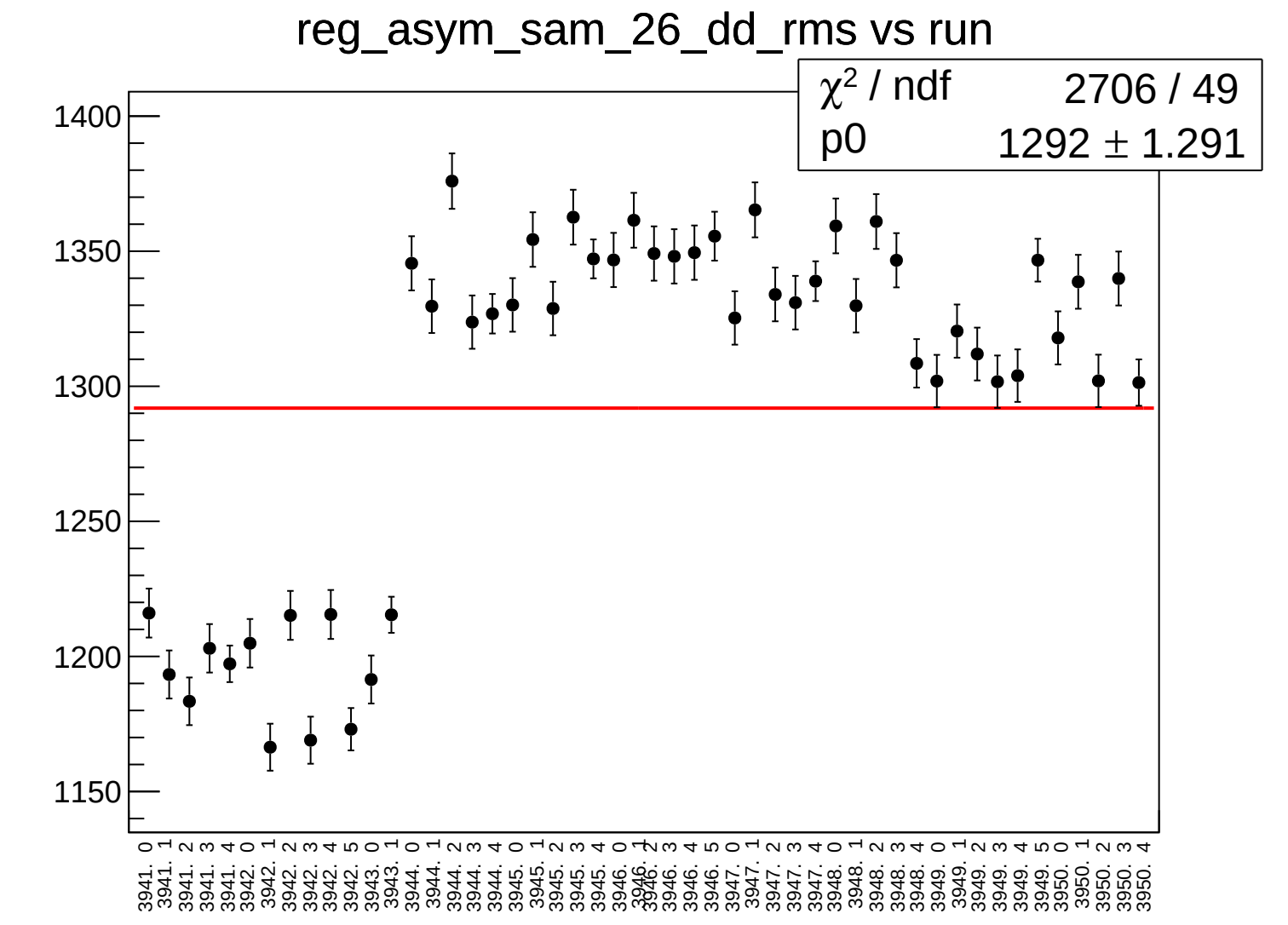

asym_sam_15_dd_correction_mean vs run
χ² / ndf 57.18 / 49
p0 2386 ± 1919
pull
Entries 50
Mean 25.03
Std Dev 12.35

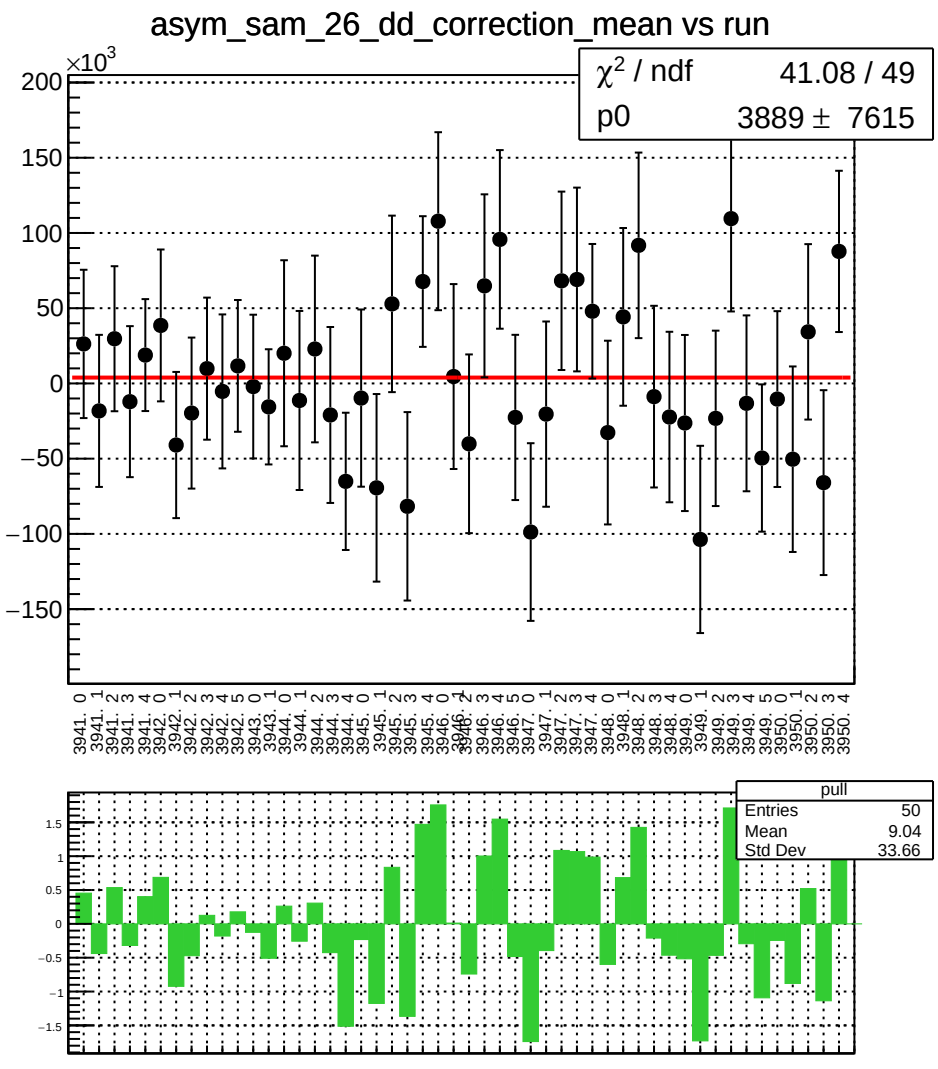

pull1D
Entries 50
Mean −0.04399
Std Dev 1.068

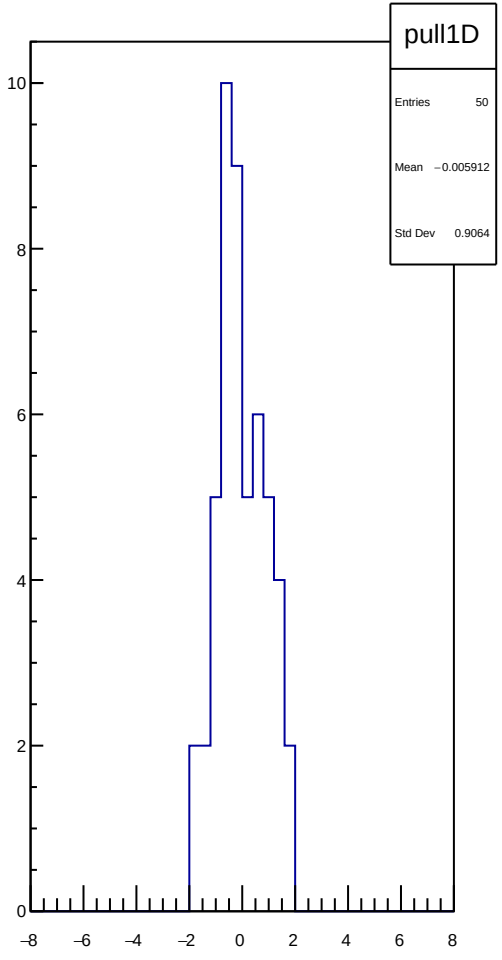

asym_sam_15_dd_correction_rms vs run
$\chi^2$ / ndf 7853 / 49
p0 1354 ± 1.357
1600
1500
1400
1300
1200
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

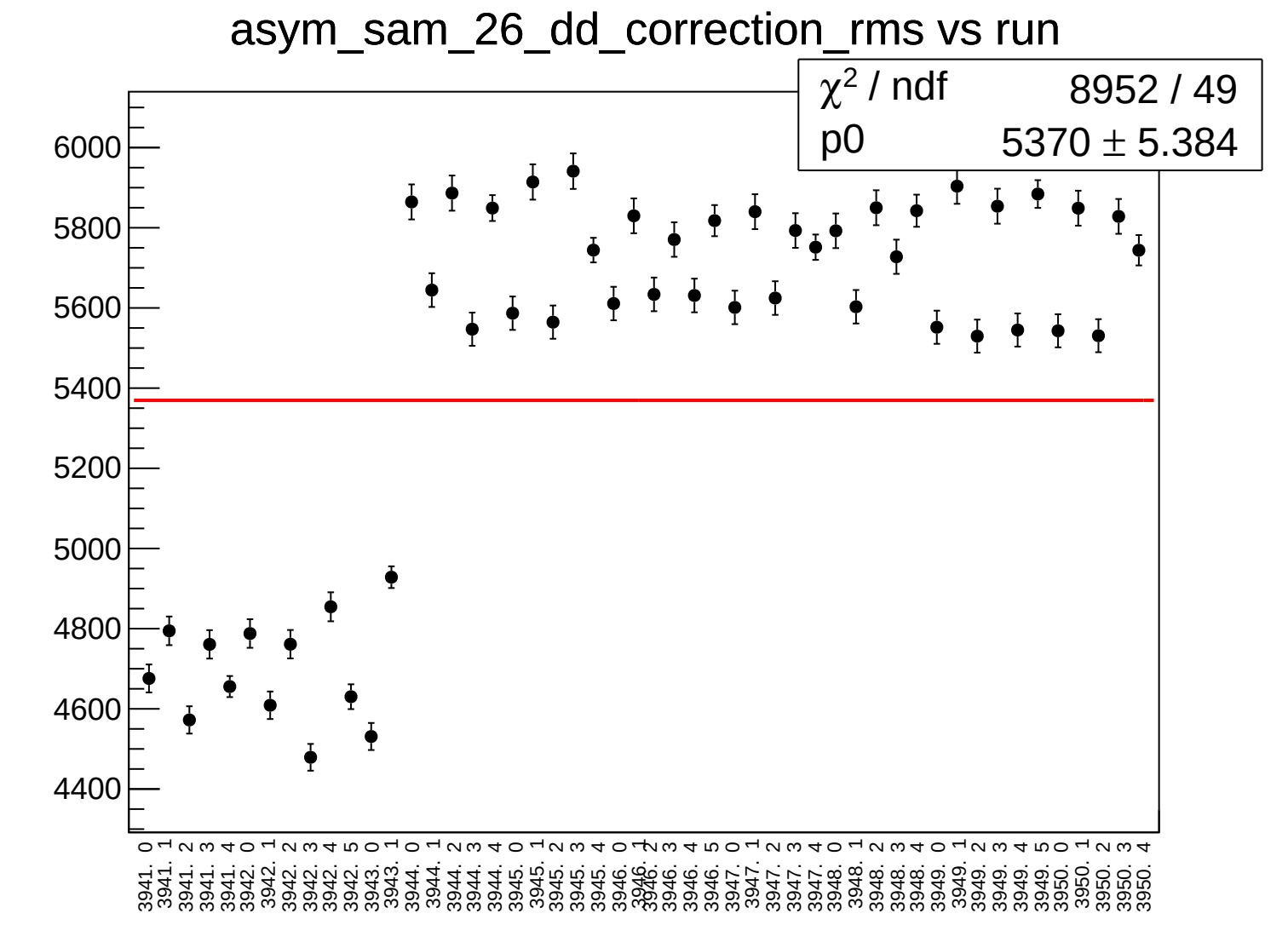

reg_asym_sam_26_dd_mean vs run
χ² / ndf 47.54 / 49
p0 −302 ± 1826
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean −115.6
Std Dev 154
2
1
0
−1
−2
−3


pull1D
Entries 50
Mean 0.01102
Std Dev 0.975
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_rms vs run
χ² / ndf 2706 / 49
p0 1292 ± 1.291
1400
1350
1300
1250
1200
1150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 41.08 / 49
p0 3889 ± 7615
pull
Entries 50
Mean 9.04
Std Dev 33.66


pull1D
Entries 50
Mean −0.005912
Std Dev 0.9064


asym_sam_26_dd_correction_rms vs run
χ² / ndf 8952 / 49
p0 5370 ± 5.384
6000
5800
5600
5400
5200
5000
4800
4600
4400
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
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3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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3949. 4
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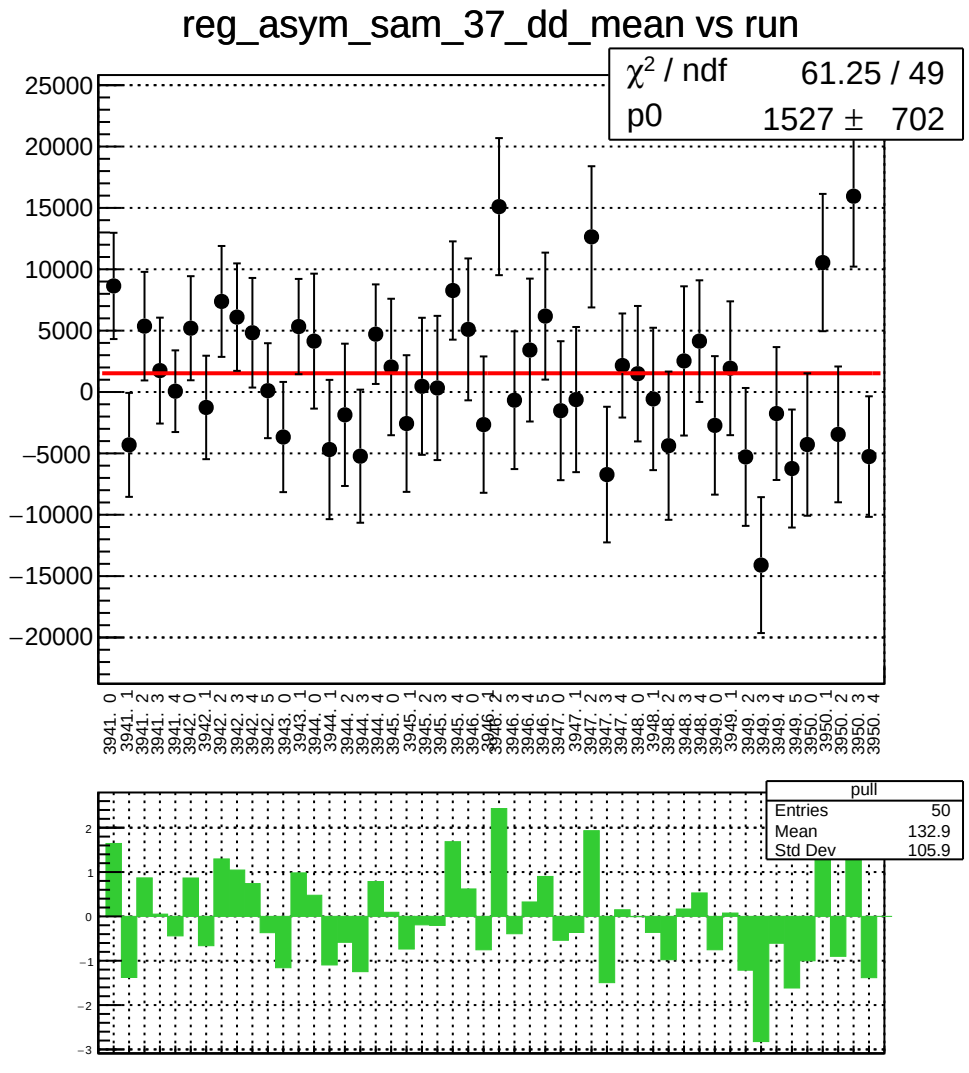
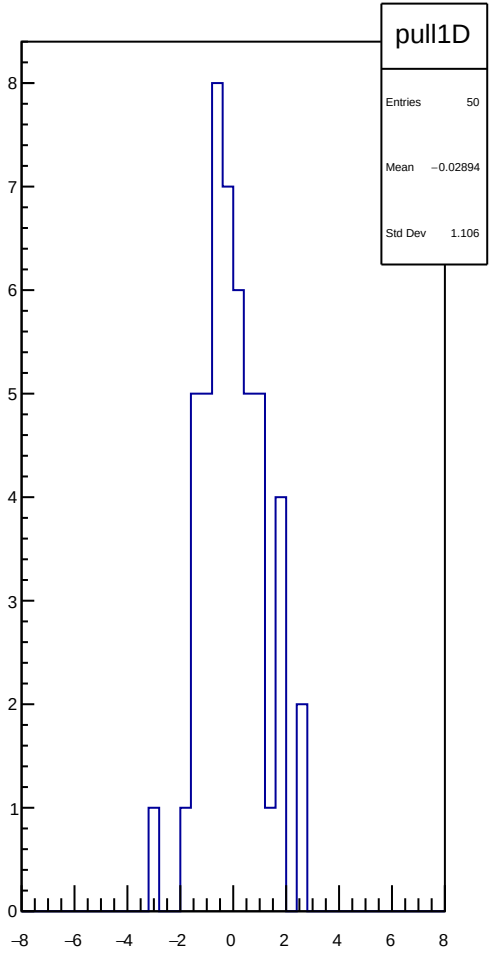
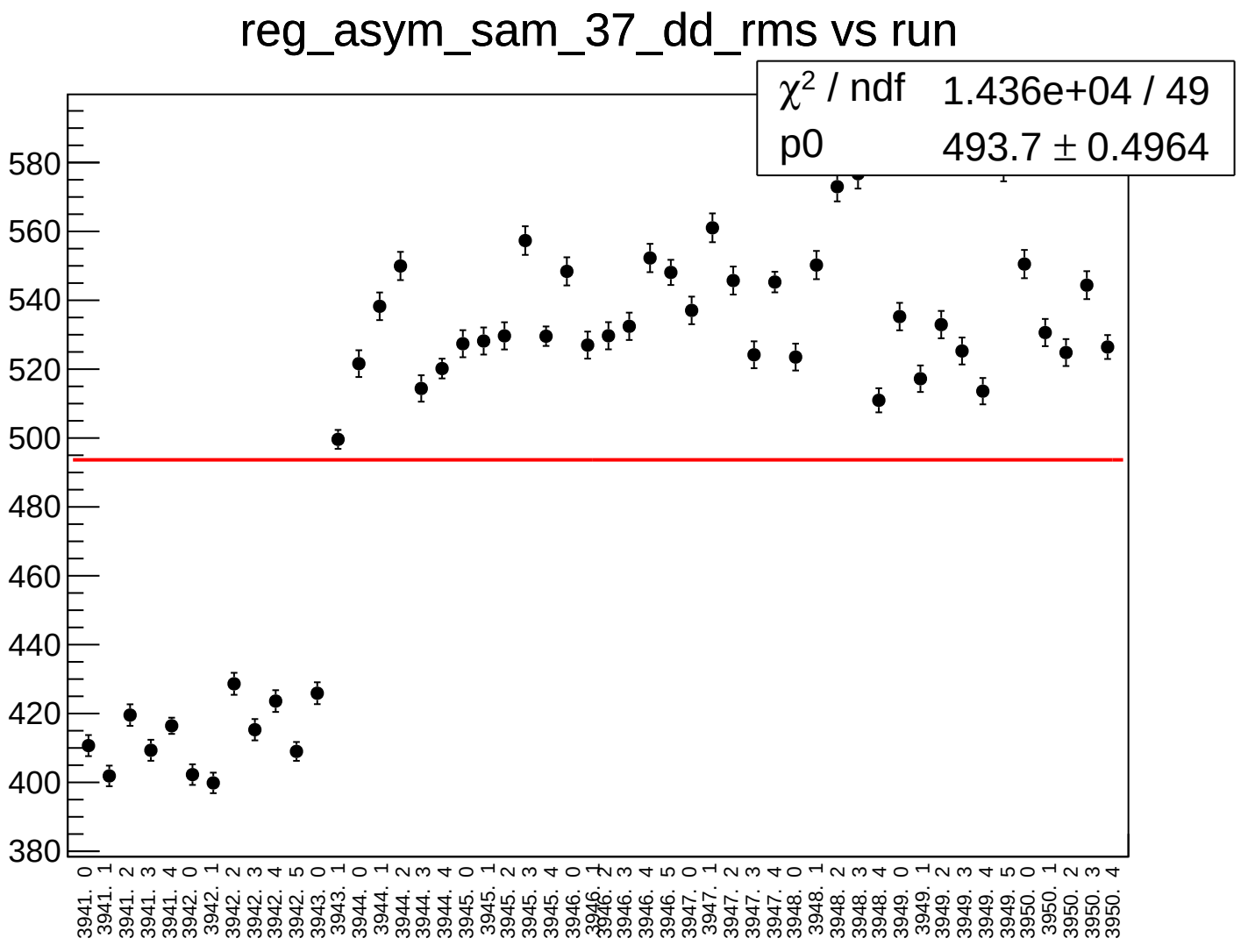
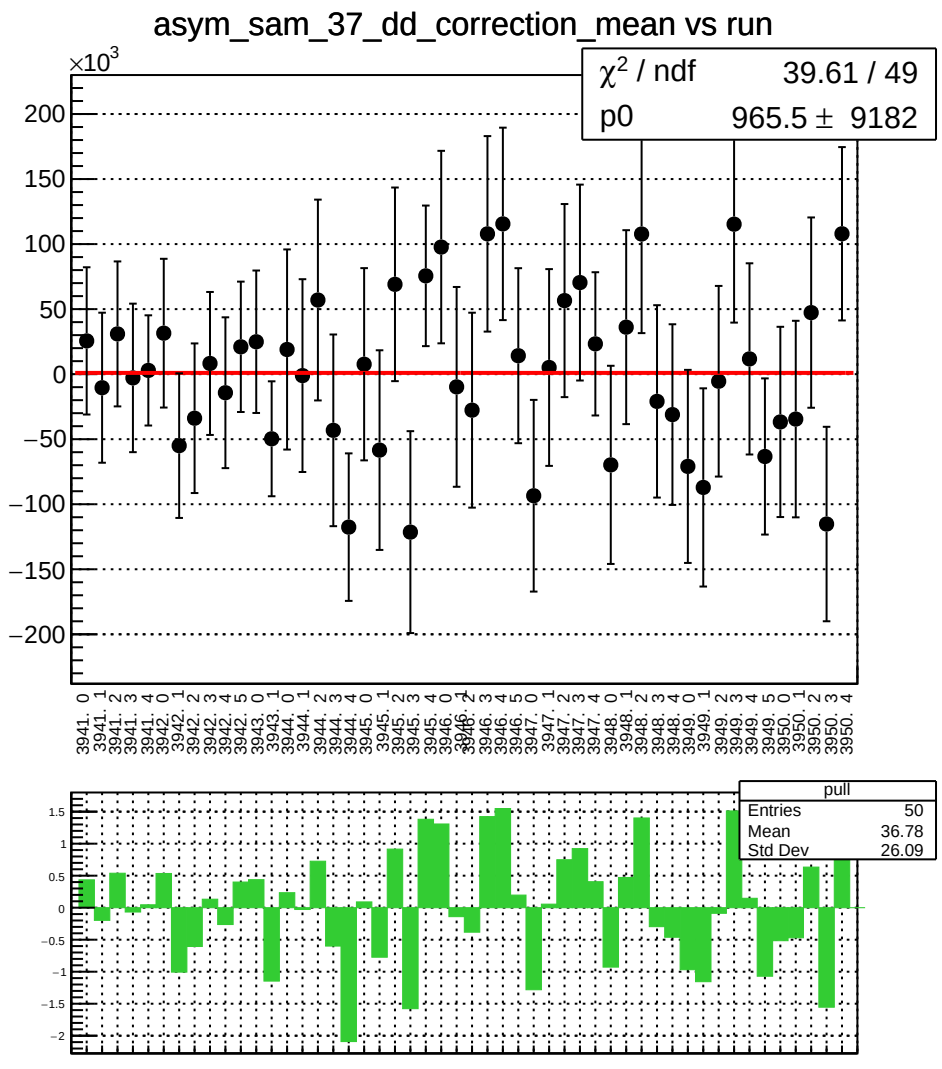
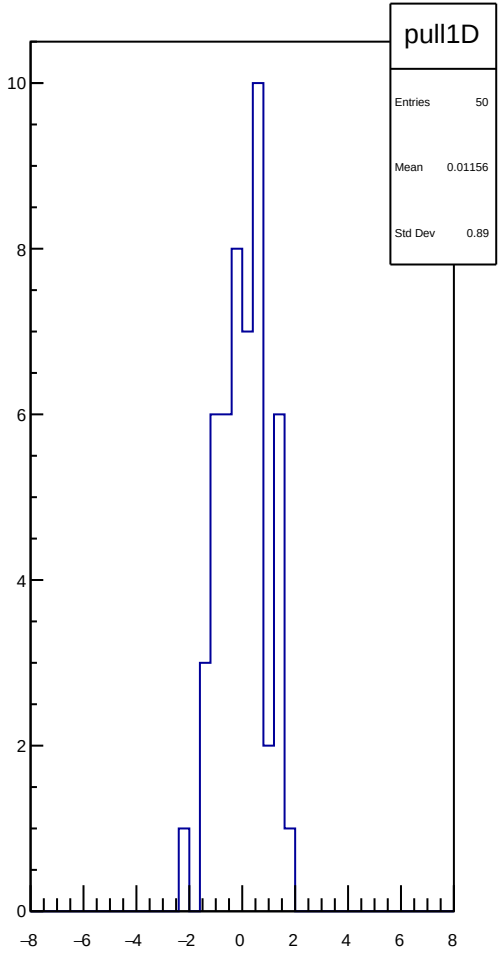
3950. 4

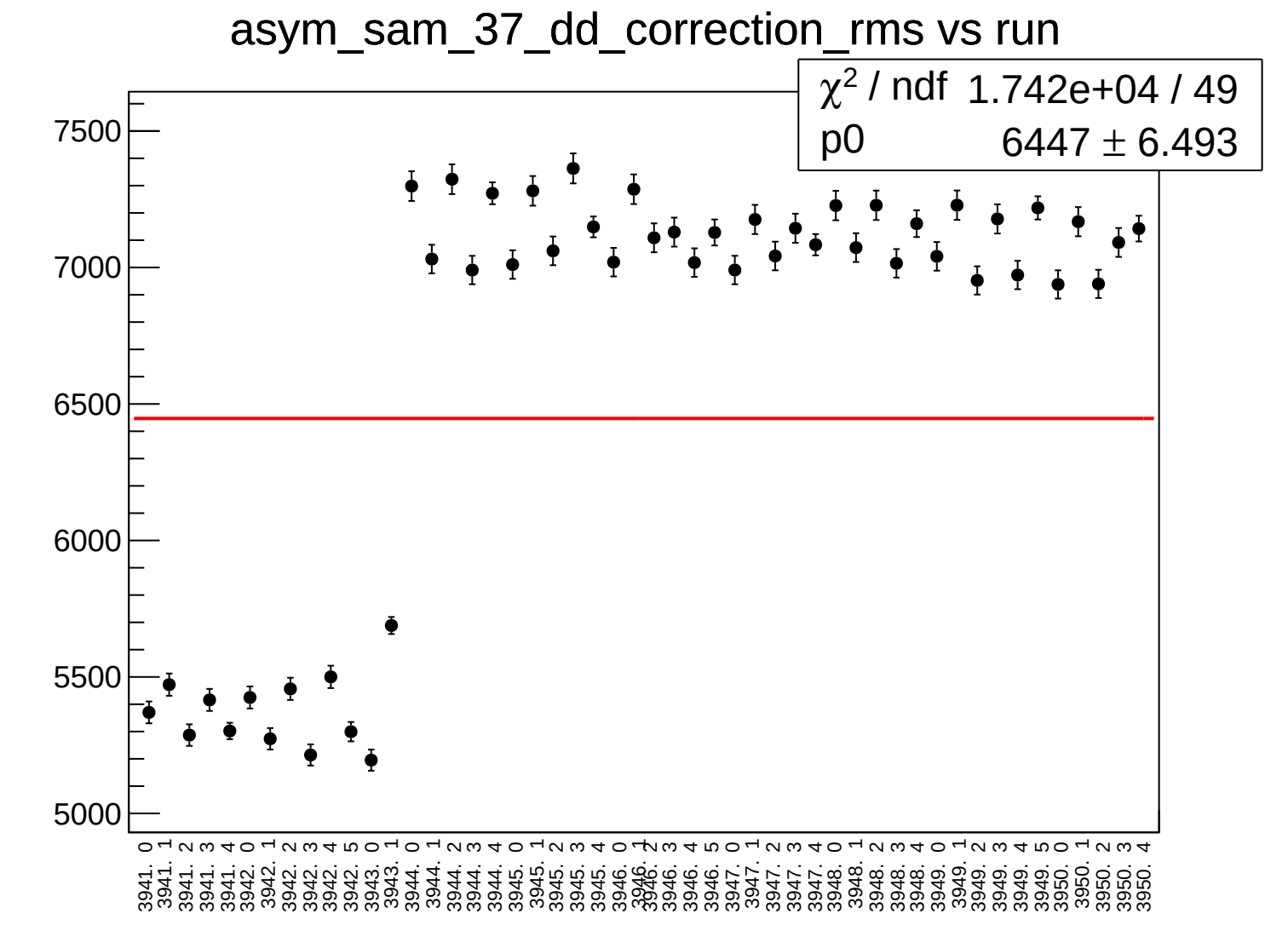

reg_asym_sam_37_dd_mean vs run
χ² / ndf 61.25 / 49
p0 1527 ± 702
pull
Entries 50
Mean 132.9
Std Dev 105.9

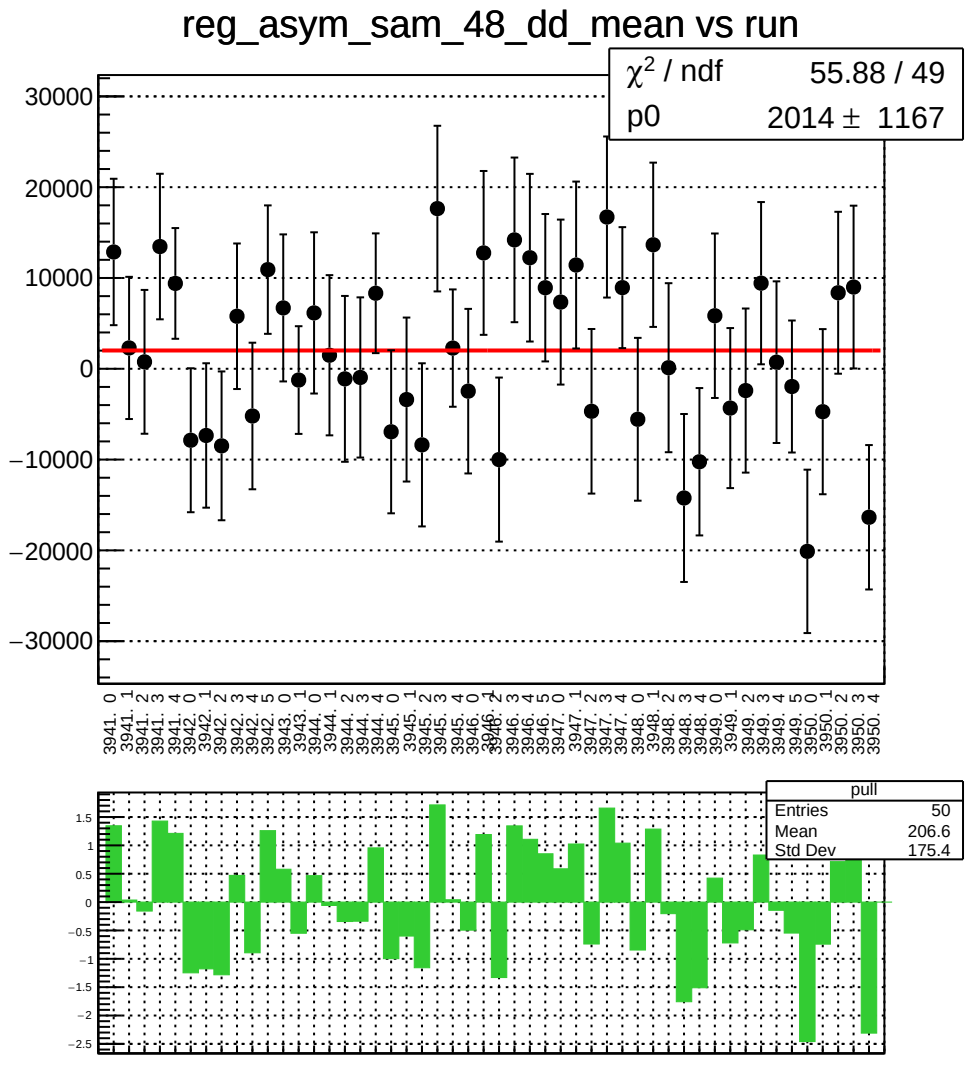

pull1D
Entries 50
Mean −0.02894
Std Dev 1.106

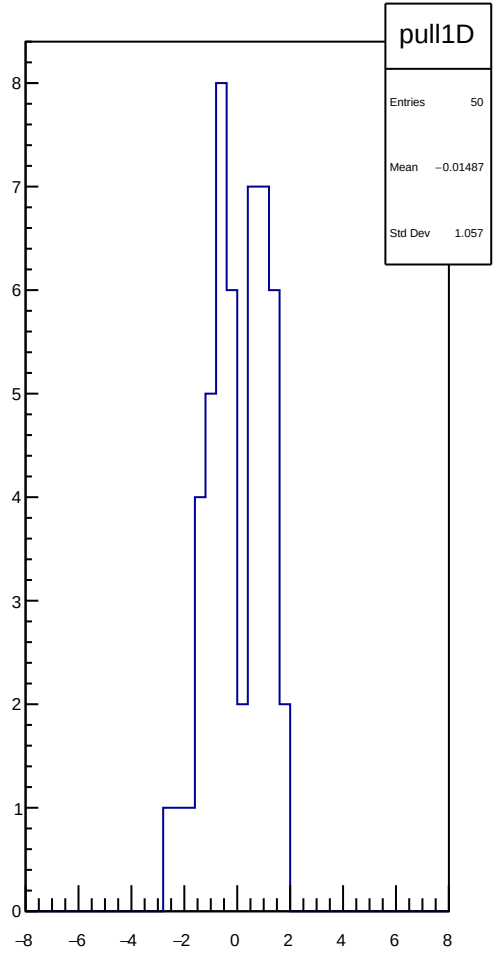

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.436e+04 / 49
p0 493.7 ± 0.4964
580
560
540
520
500
480
460
440
420
400
380
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

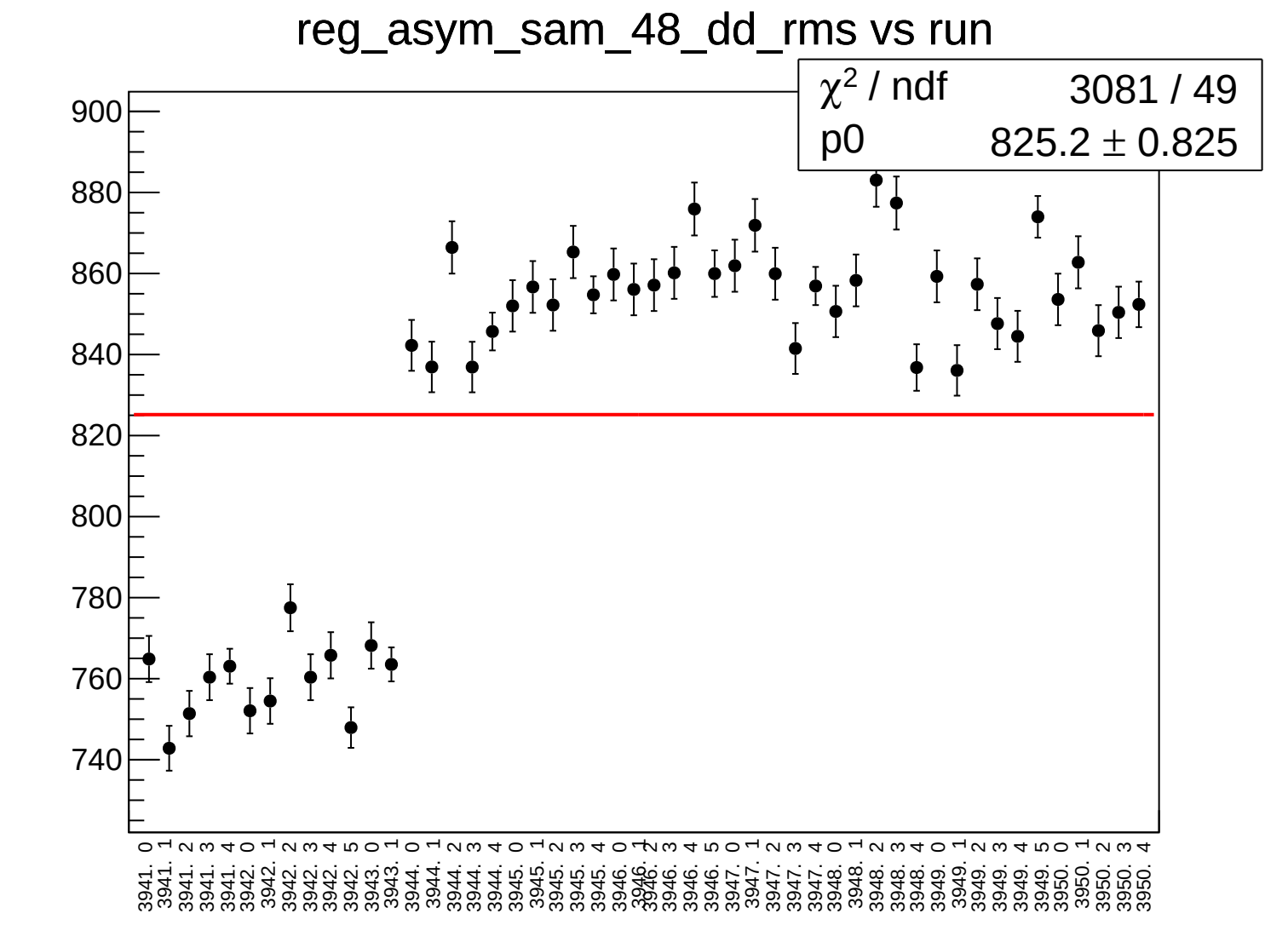

asym_sam_37_dd_correction_mean vs run
χ² / ndf 39.61 / 49
p0 965.5 ± 9182
pull
Entries 50
Mean 36.78
Std Dev 26.09

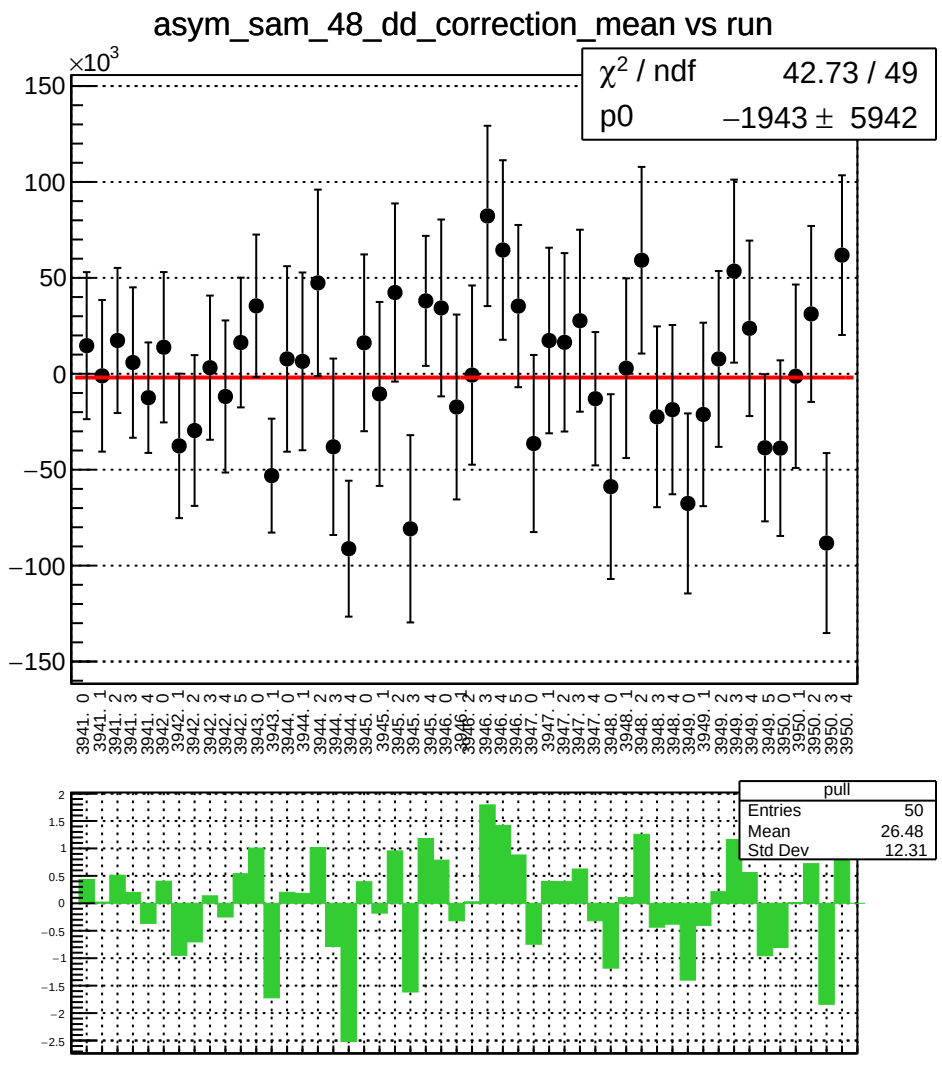

pull1D
Entries 50
Mean 0.01156
Std Dev 0.89

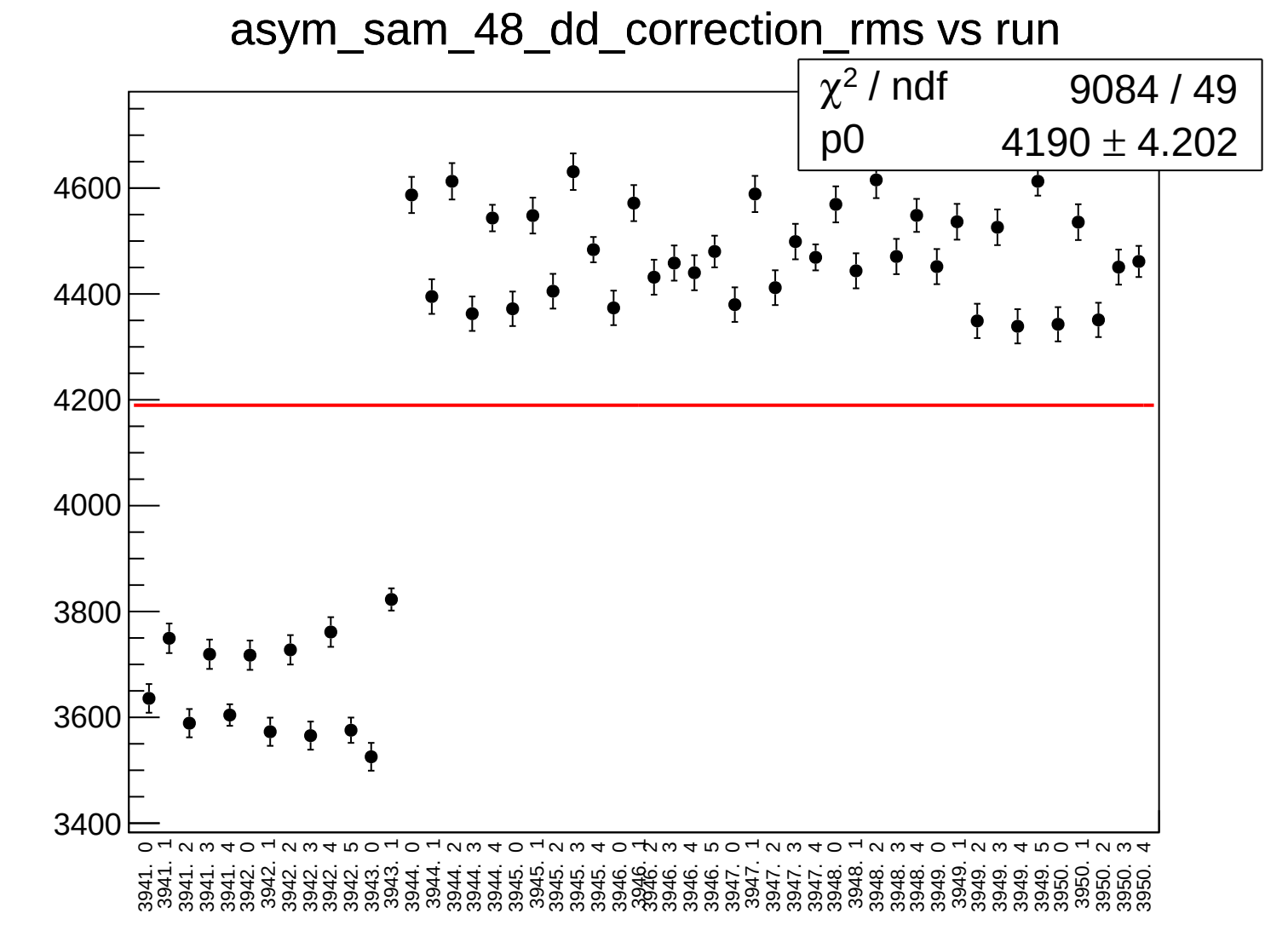

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.742e+04 / 49
p0 6447 ± 6.493
7500
7000
6500
6000
5500
5000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

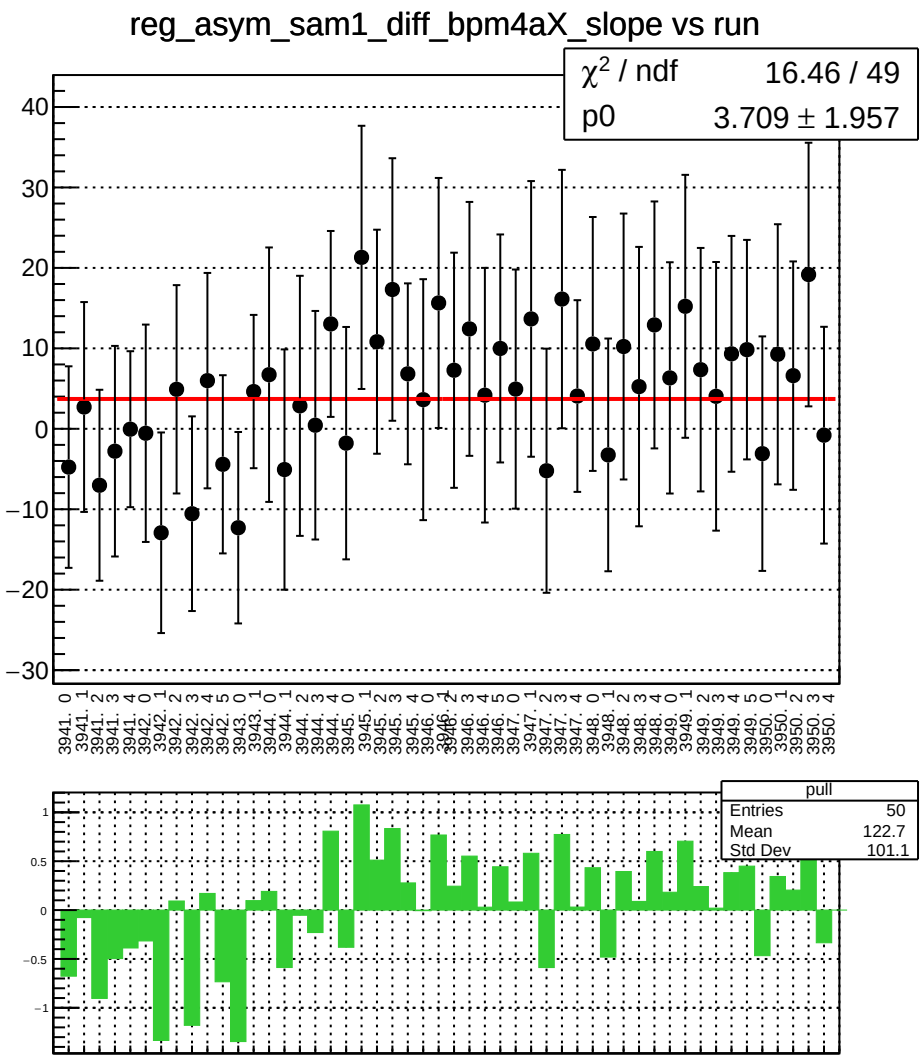

reg_asym_sam_48_dd_mean vs run
χ² / ndf 55.88 / 49
p0 2014 ± 1167
pull
Entries 50
Mean 206.6
Std Dev 175.4

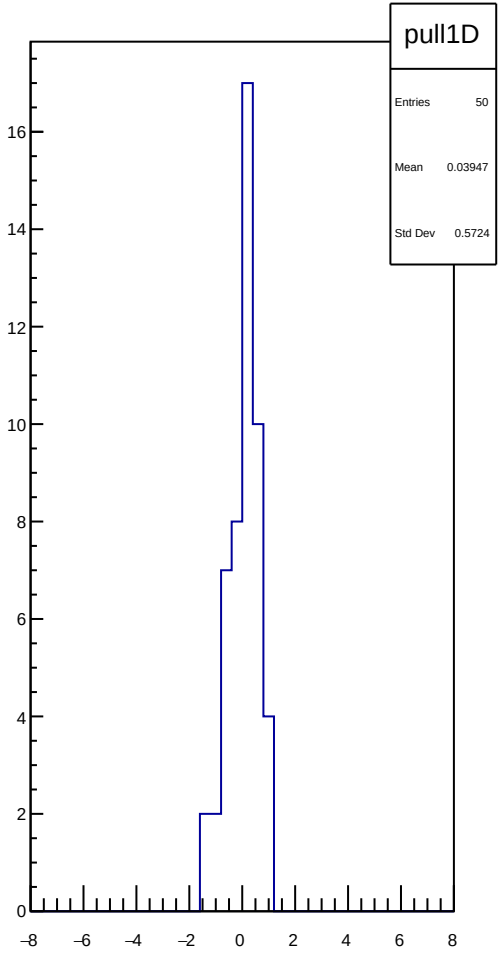

pull1D
Entries 50
Mean −0.01487
Std Dev 1.057

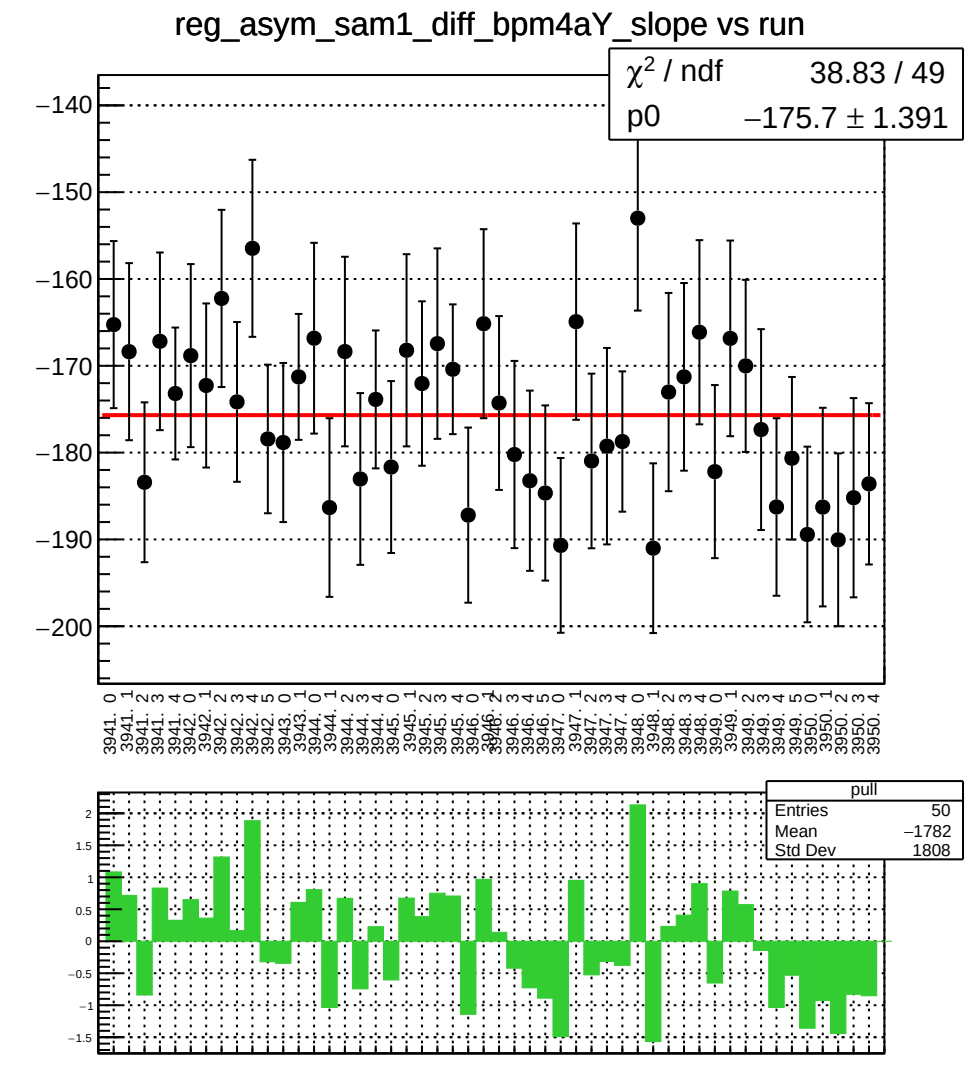

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3081 / 49
p0 825.2 ± 0.825
900
880
860
840
820
800
780
760
740
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

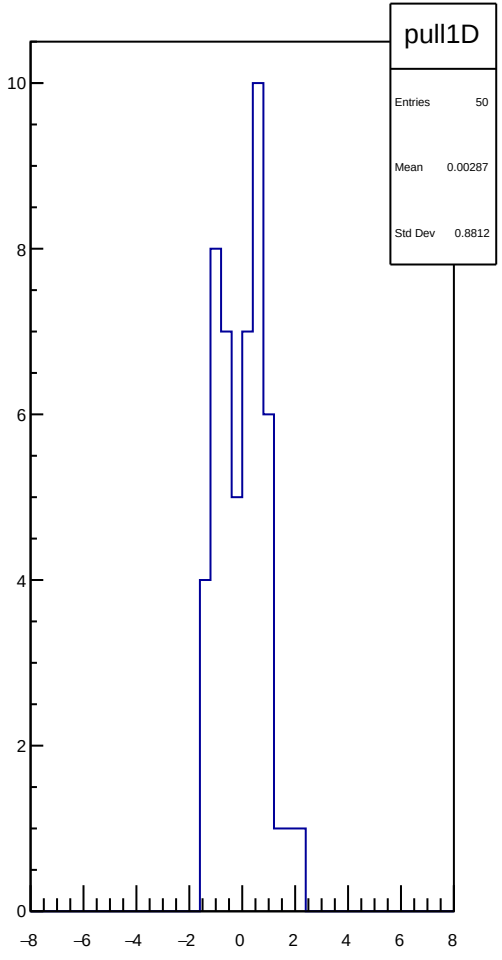

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 42.73 / 49
p0 −1943 ± 5942
150
100
50
0
−50
−100
−150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 26.48
Std Dev 12.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean 0.02398
Std Dev 0.9241
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

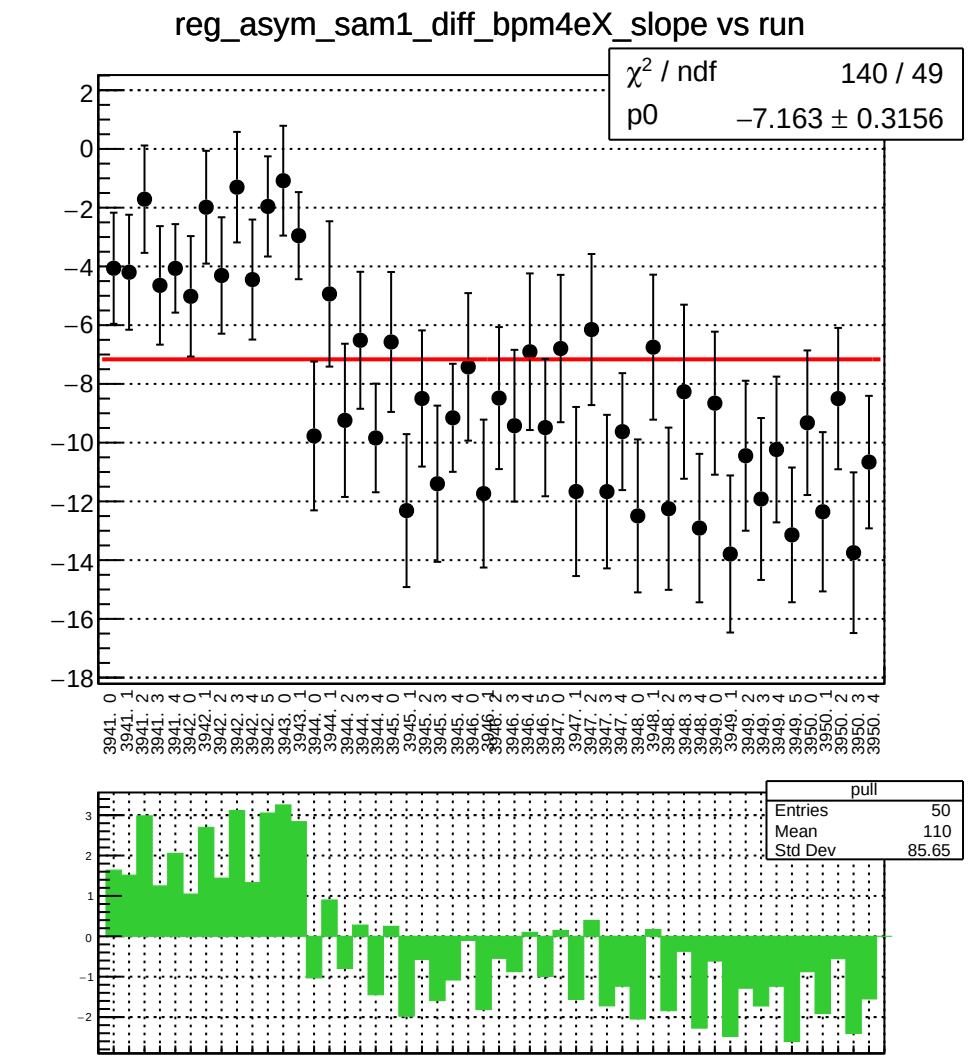

asym_sam_48_dd_correction_rms vs run
χ² / ndf 9084 / 49
p0 4190 ± 4.202
4600
4400
4200
4000
3800
3600
3400
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

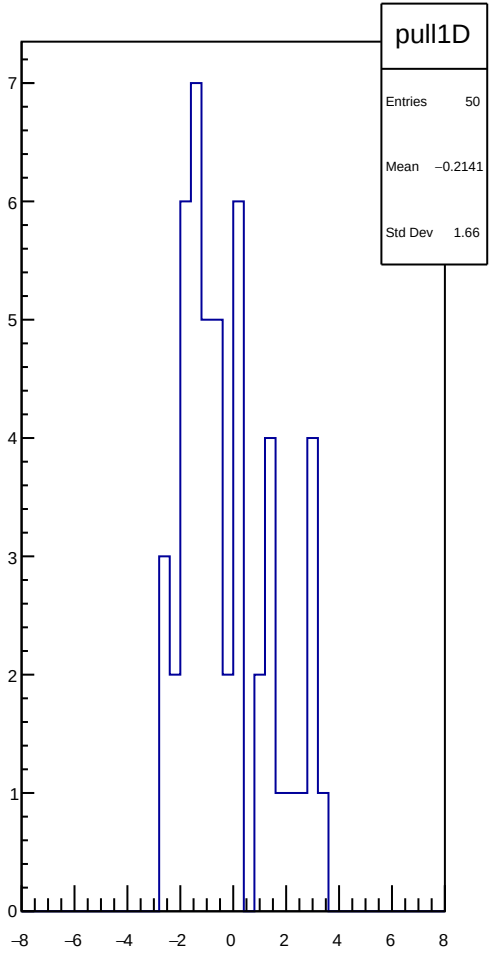

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 16.46 / 49
p0 3.709 ± 1.957
pull
Entries 50
Mean 122.7
Std Dev 101.1

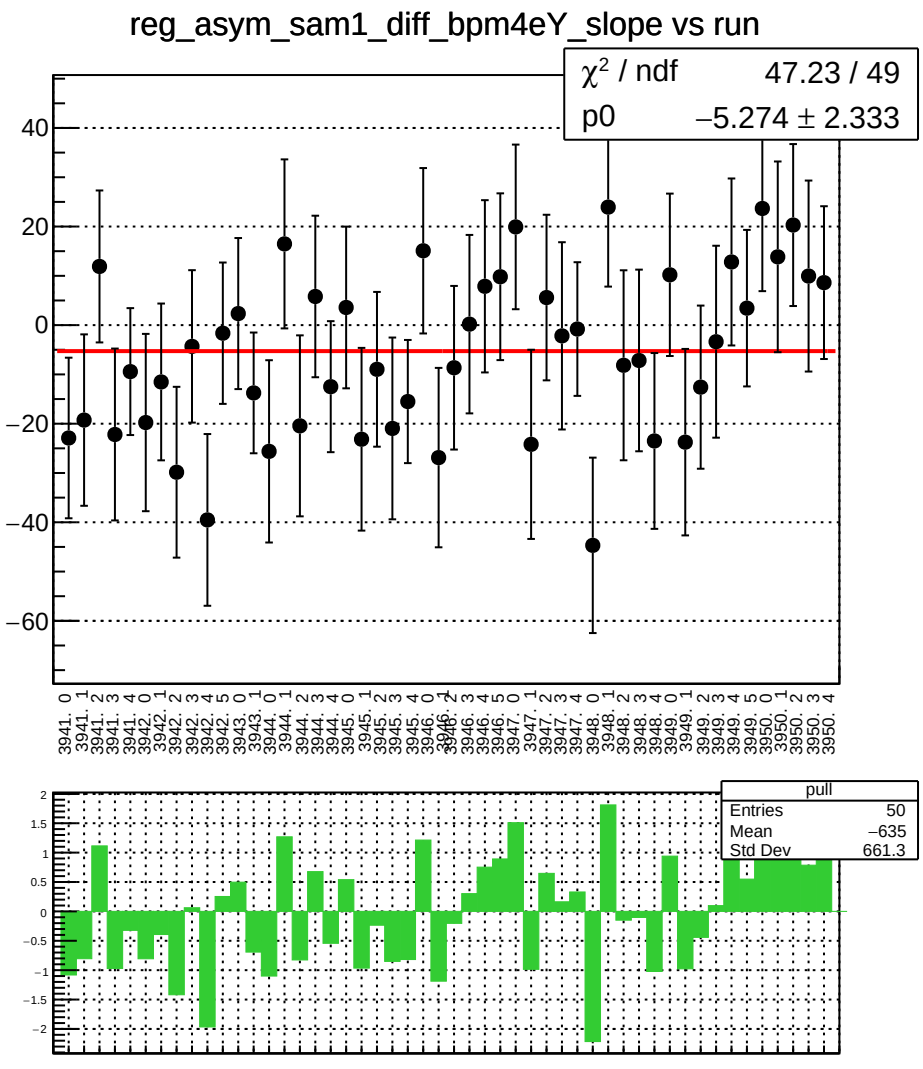

pull1D
Entries 50
Mean 0.03947
Std Dev 0.5724

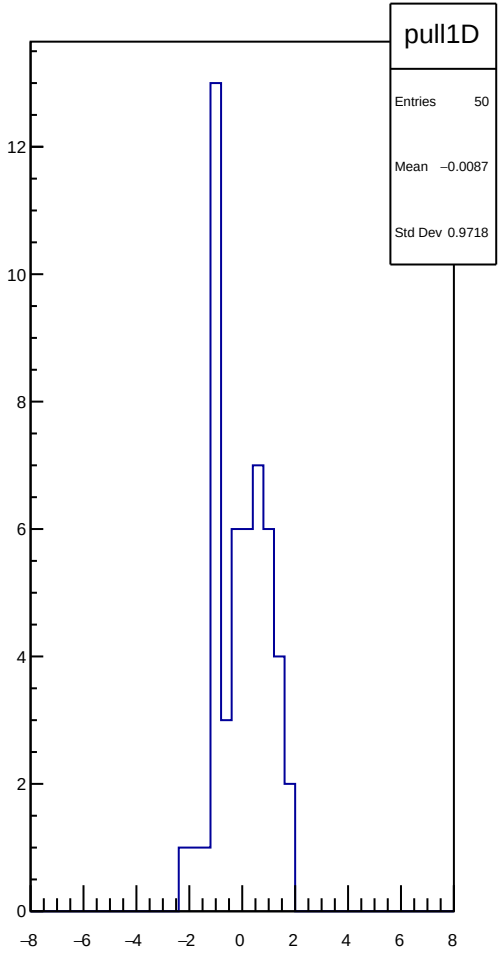

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 38.83 / 49
p0 −175.7 ± 1.391
pull
Entries 50
Mean −1782
Std Dev 1808

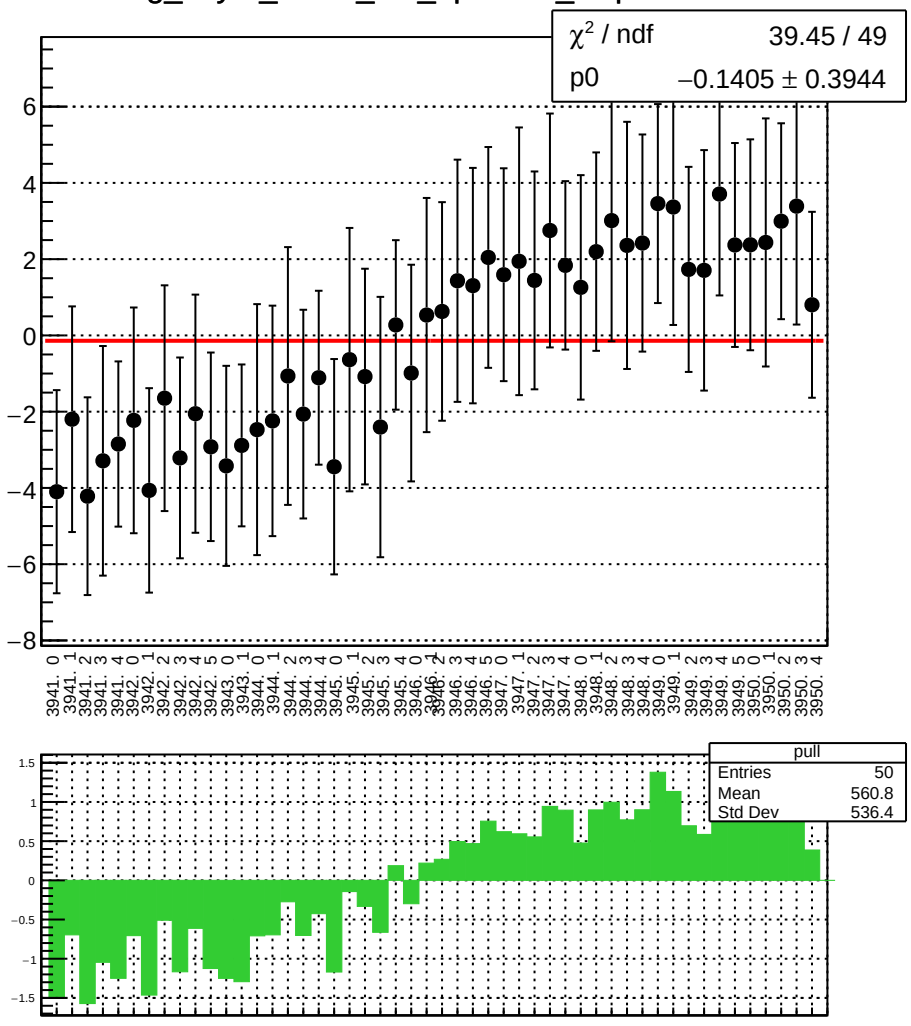

pull1D
Entries 50
Mean 0.00287
Std Dev 0.8812

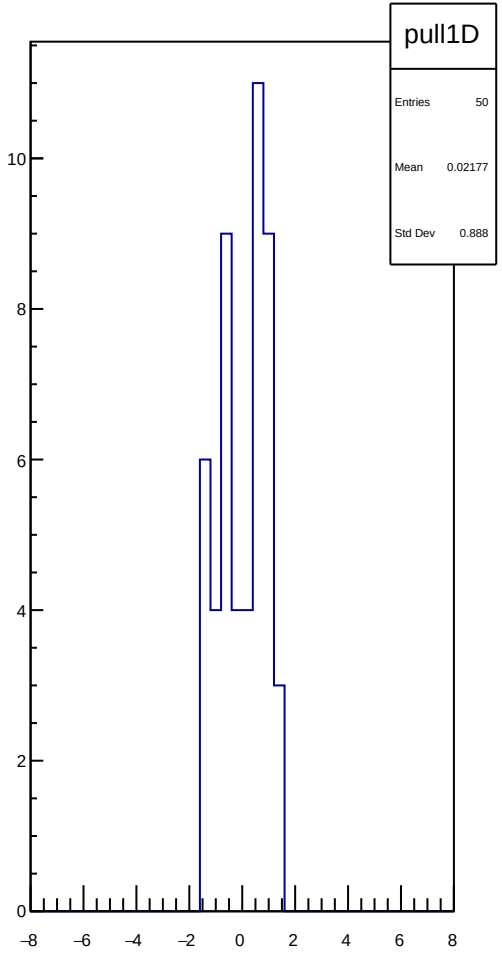

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 140 / 49
p0 −7.163 ± 0.3156
pull
Entries 50
Mean 110
Std Dev 85.65

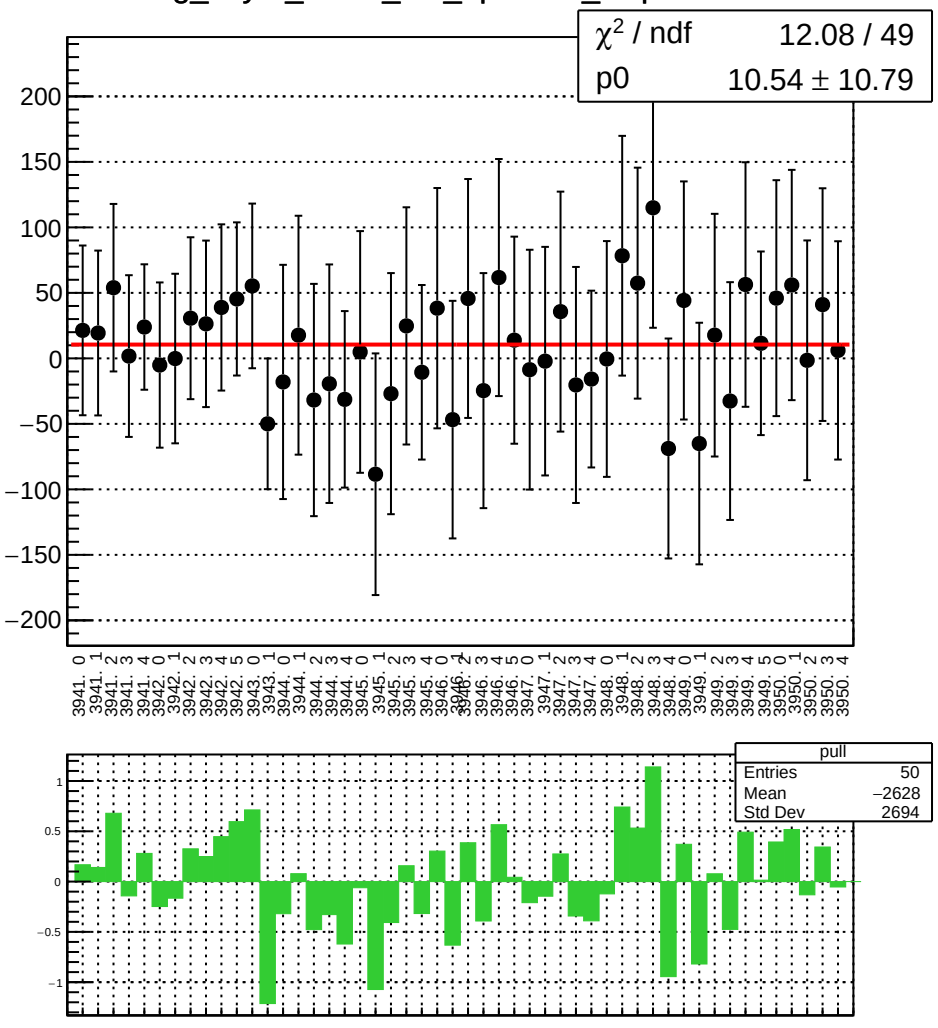

pull1D
Entries 50
Mean −0.2141
Std Dev 1.66

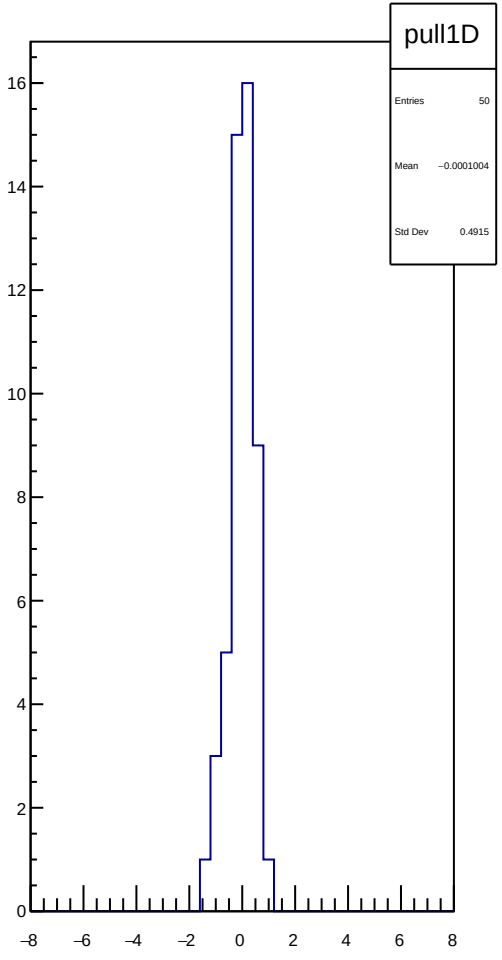

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 47.23 / 49
p0 −5.274 ± 2.333
pull
Entries 50
Mean −635
Std Dev 661.3

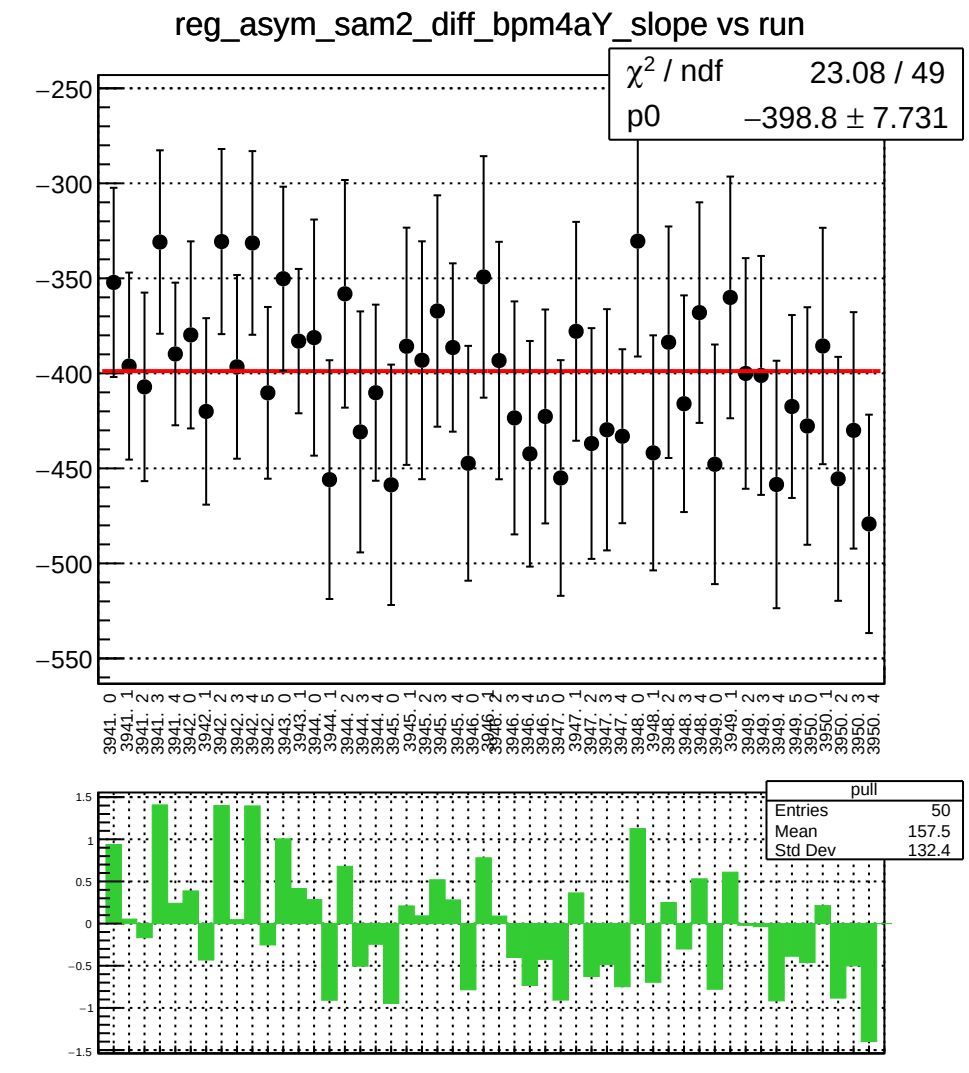

pull1D
Entries 50
Mean −0.0087
Std Dev 0.9718

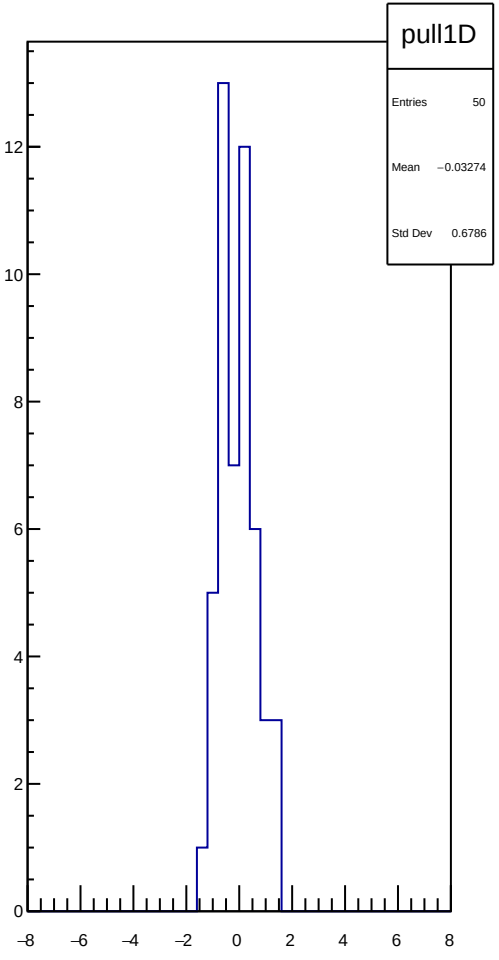

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 39.45 / 49
p0 −0.1405 ± 0.3944
pull
Entries 50
Mean 560.8
Std Dev 536.4

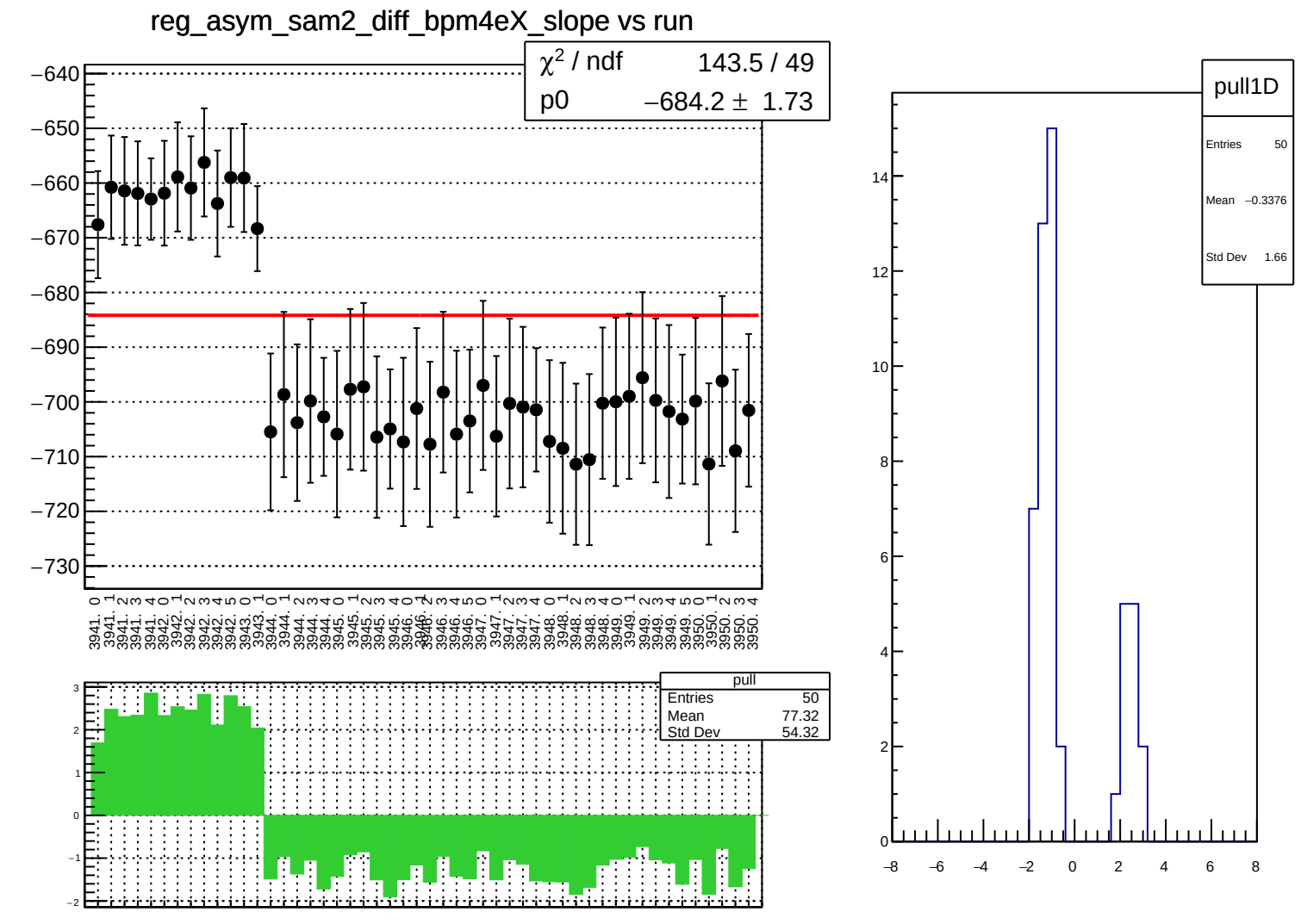

pull1D
Entries 50
Mean 0.02177
Std Dev 0.888

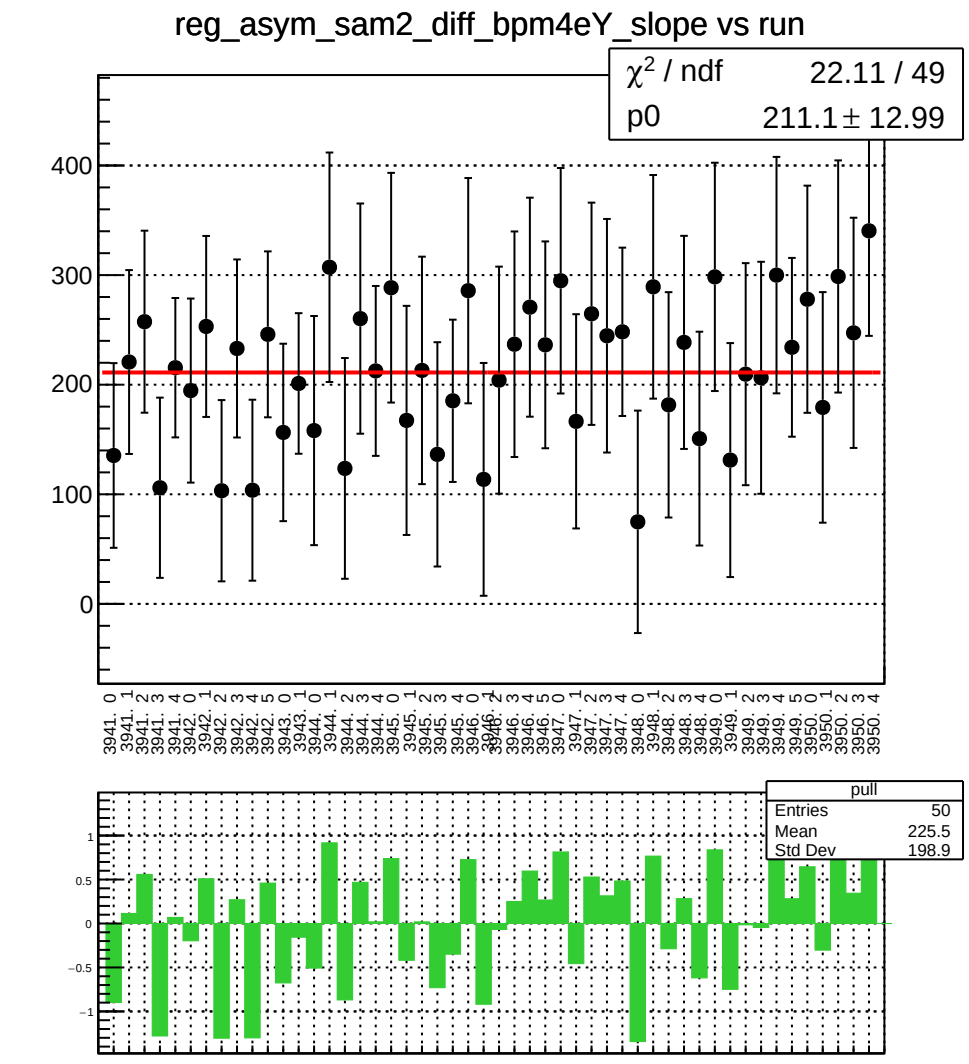

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 12.08 / 49
p0 10.54 ± 10.79
pull
Entries 50
Mean −2628
Std Dev 2694

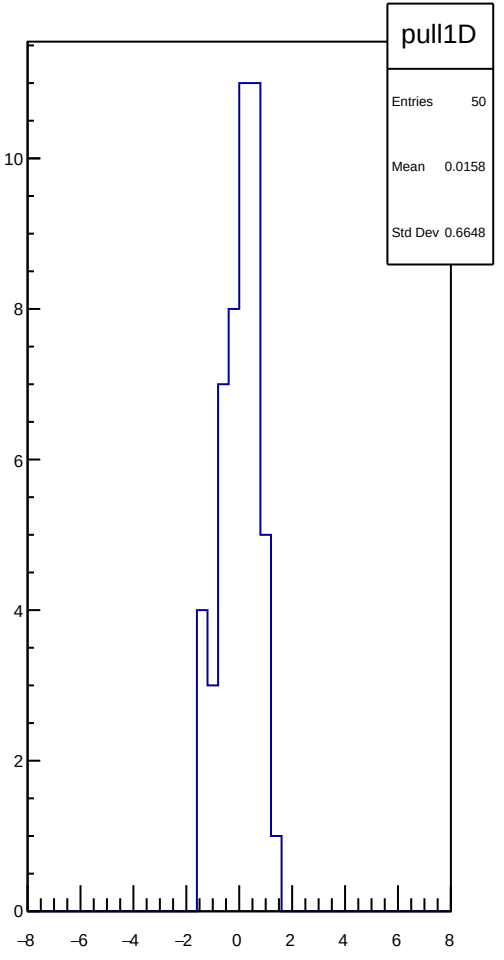

pull1D
Entries 50
Mean −0.0001004
Std Dev 0.4915

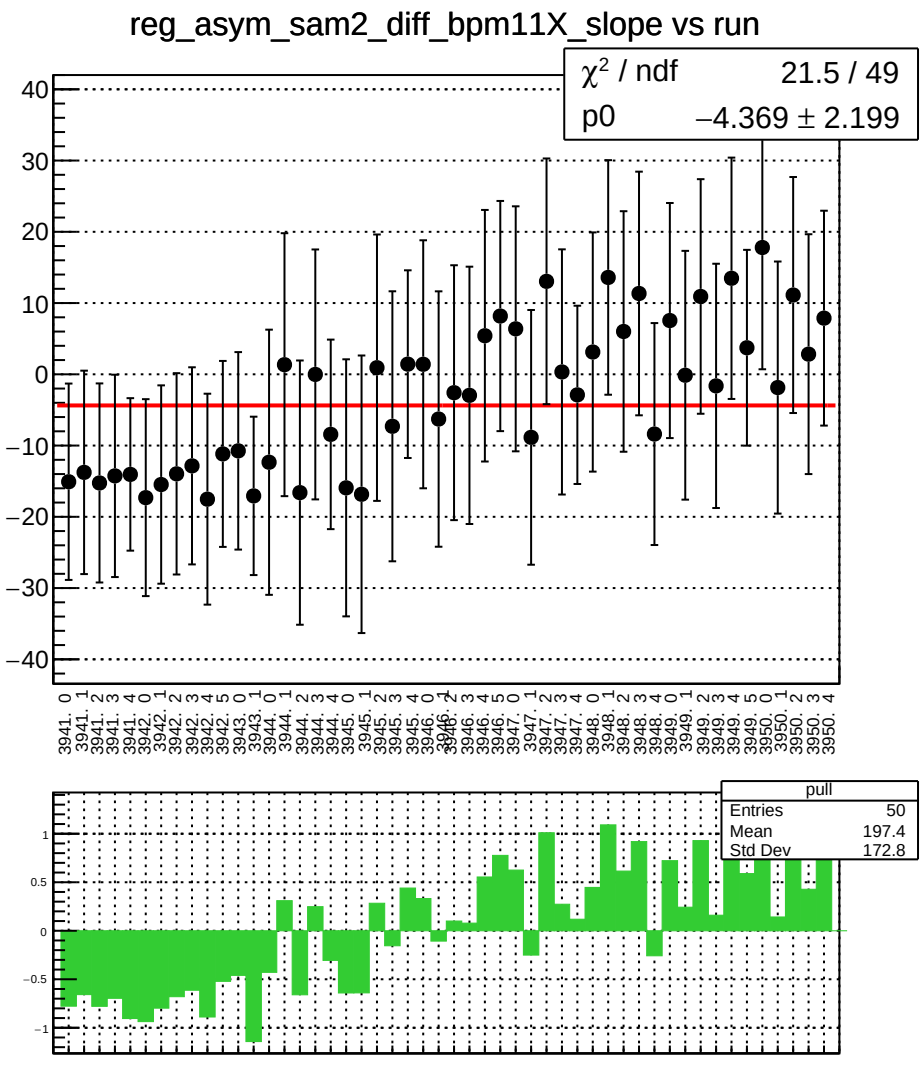

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 23.08 / 49
p0 −398.8 ± 7.731
pull
Entries 50
Mean 157.5
Std Dev 132.4

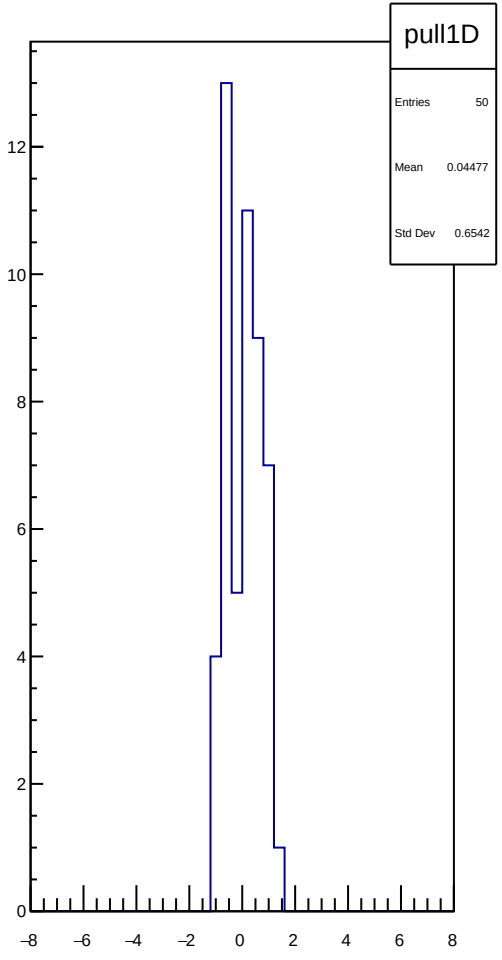

pull1D
Entries 50
Mean −0.03274
Std Dev 0.6786

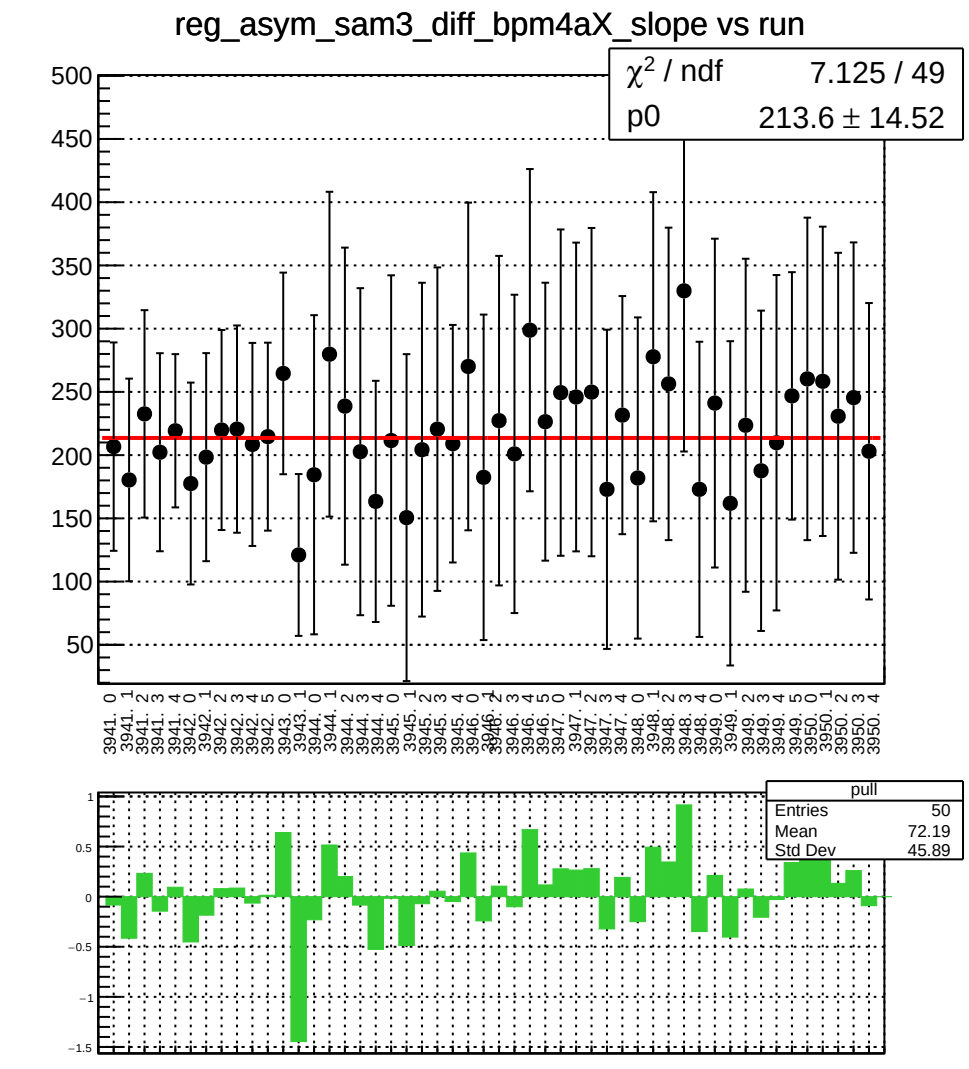

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 143.5 / 49
p0 −684.2 ± 1.73
pull
Entries 50
Mean 77.32
Std Dev 54.32
pull1D
Entries 50
Mean −0.3376
Std Dev 1.66

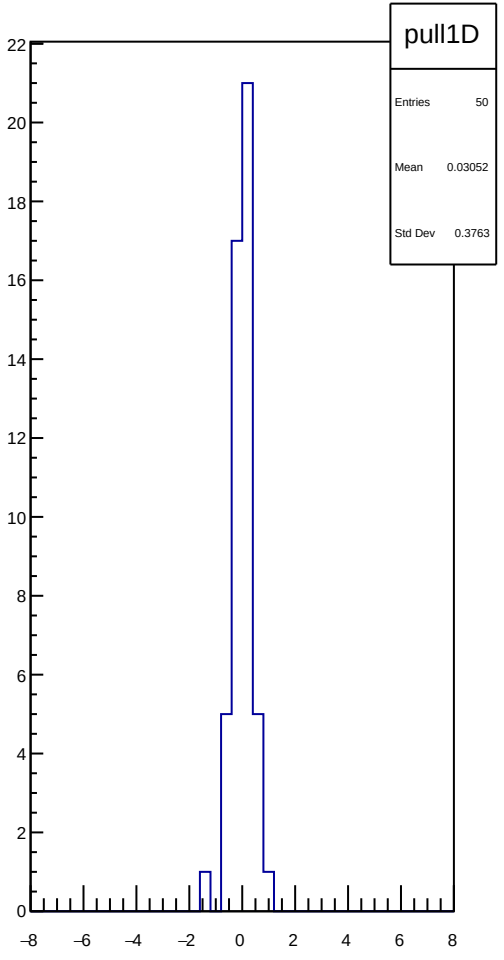

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 22.11 / 49
p0 211.1 ± 12.99
400
300
200
100
0
pull
Entries 50
Mean 225.5
Std Dev 198.9
1
0.5
0
−0.5
−1

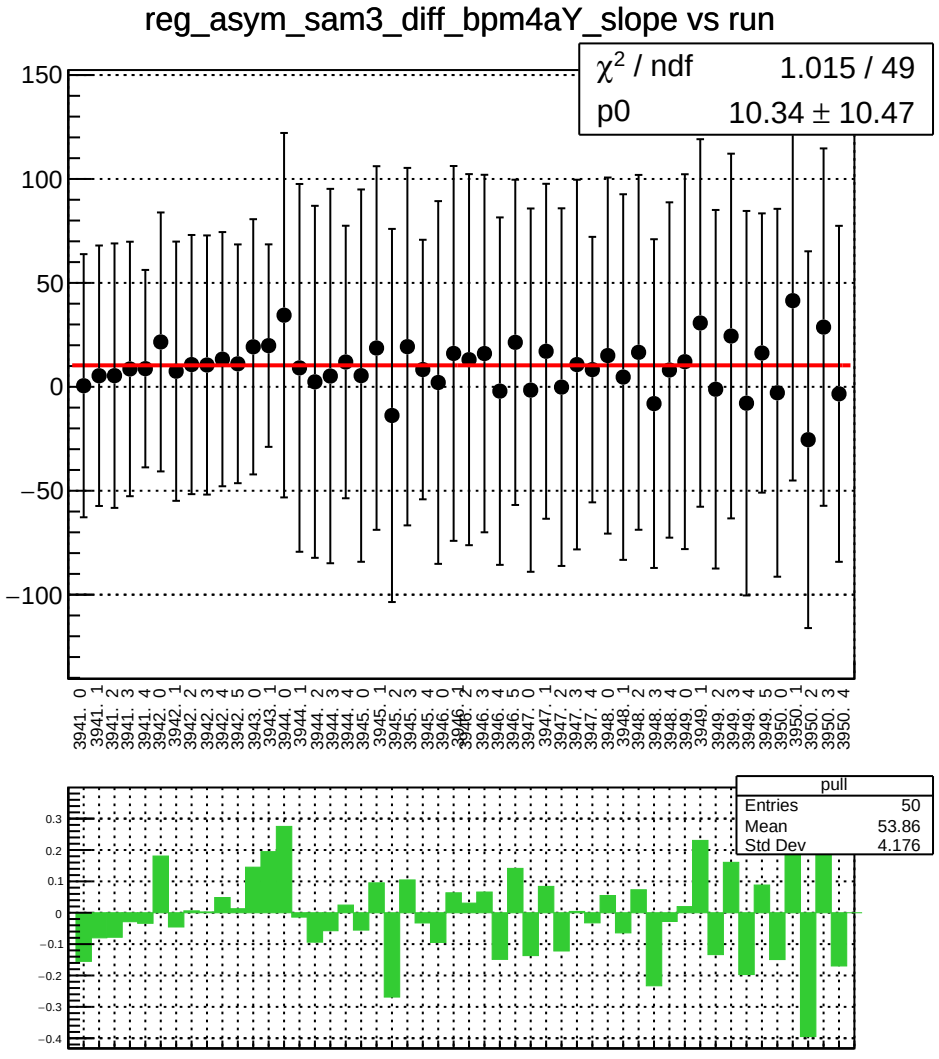

pull1D
Entries 50
Mean 0.0158
Std Dev 0.6648
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

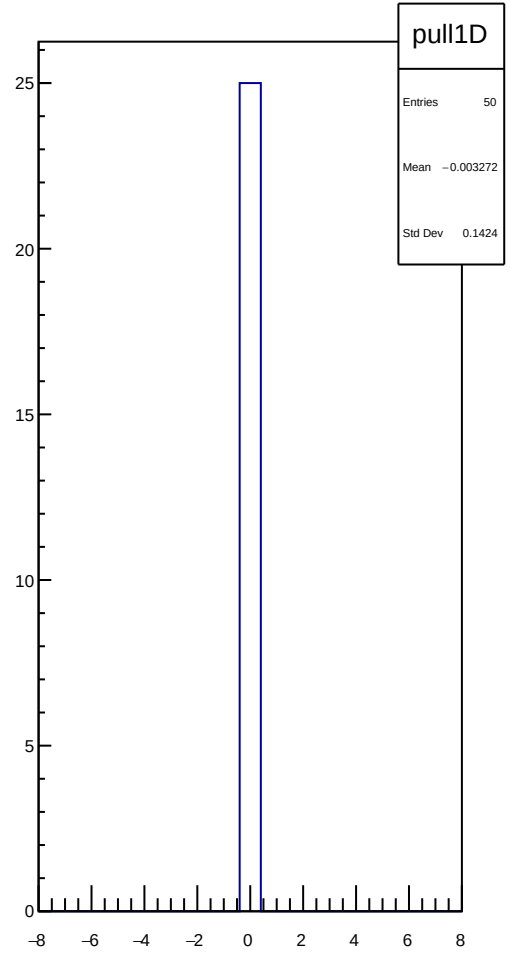

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 21.5 / 49
p0 −4.369 ± 2.199
pull
Entries 50
Mean 197.4
Std Dev 172.8

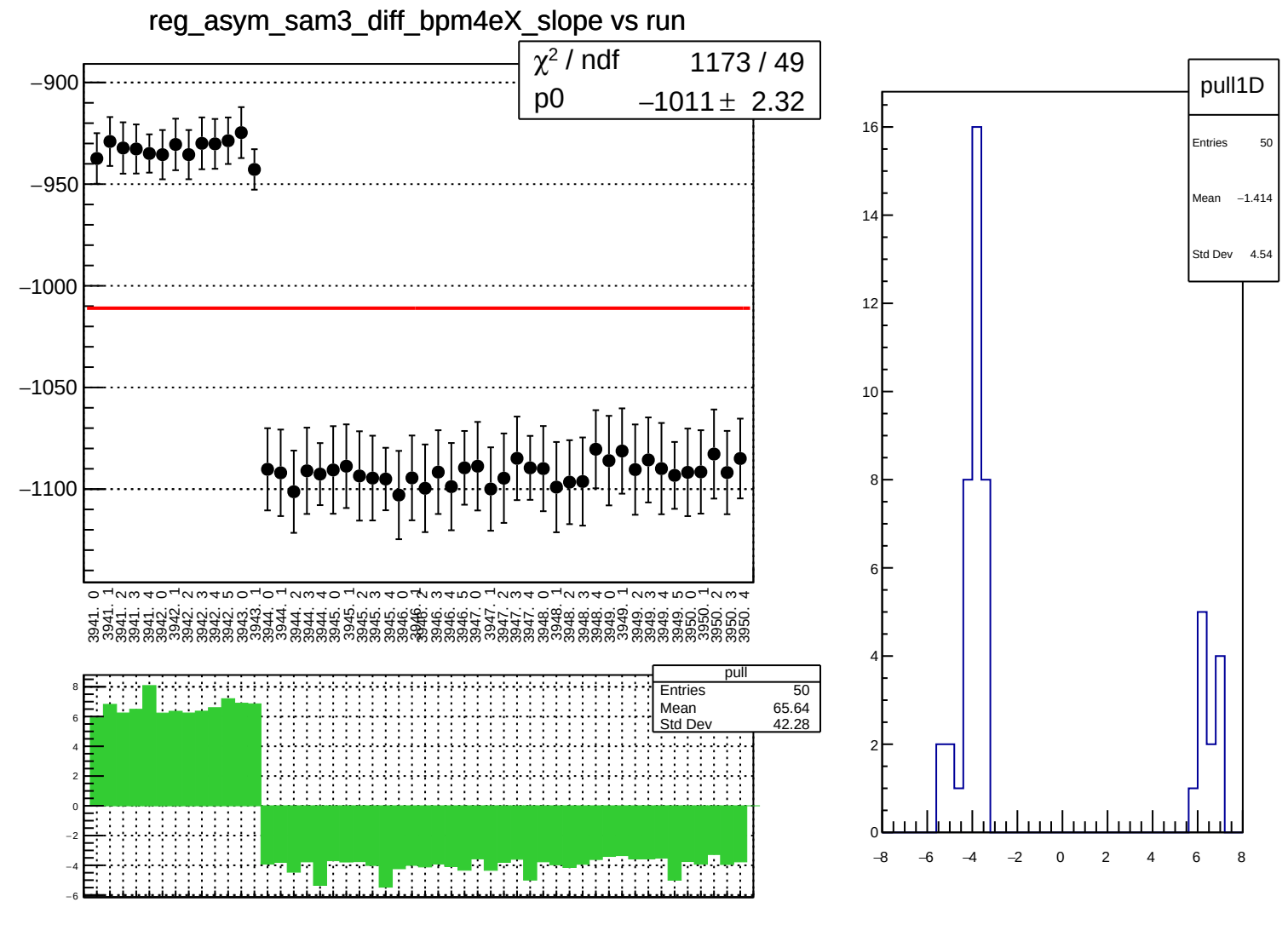

pull1D
Entries 50
Mean 0.04477
Std Dev 0.6542

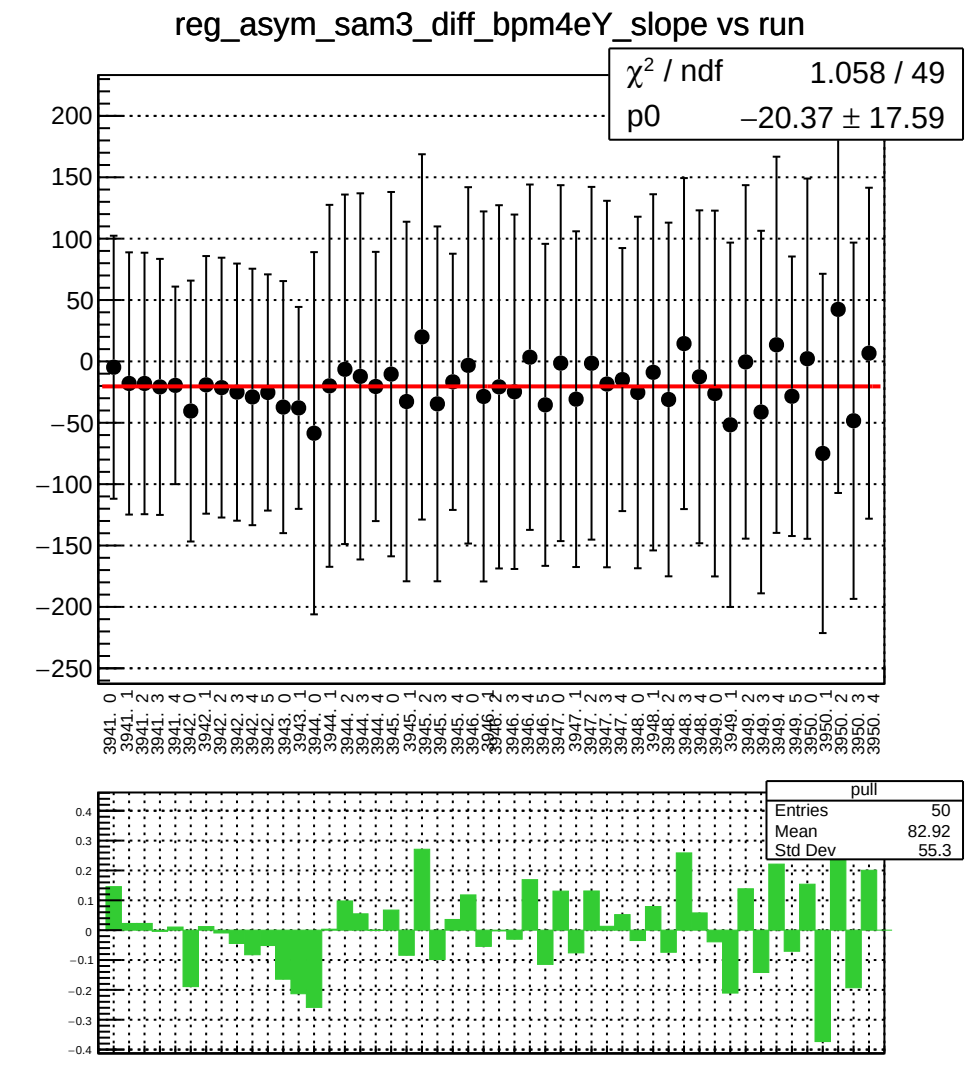

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 7.125 / 49
p0 213.6 ± 14.52
pull
Entries 50
Mean 72.19
Std Dev 45.89

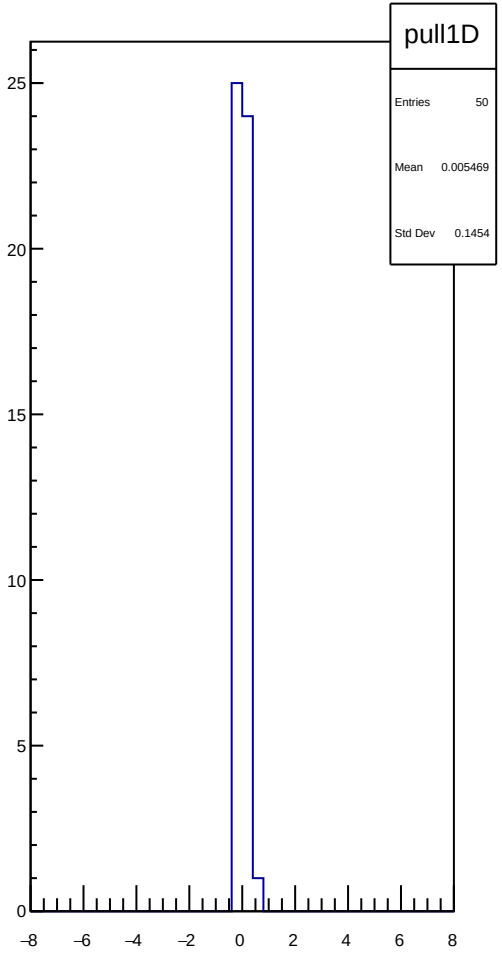

pull1D
Entries 50
Mean 0.03052
Std Dev 0.3763

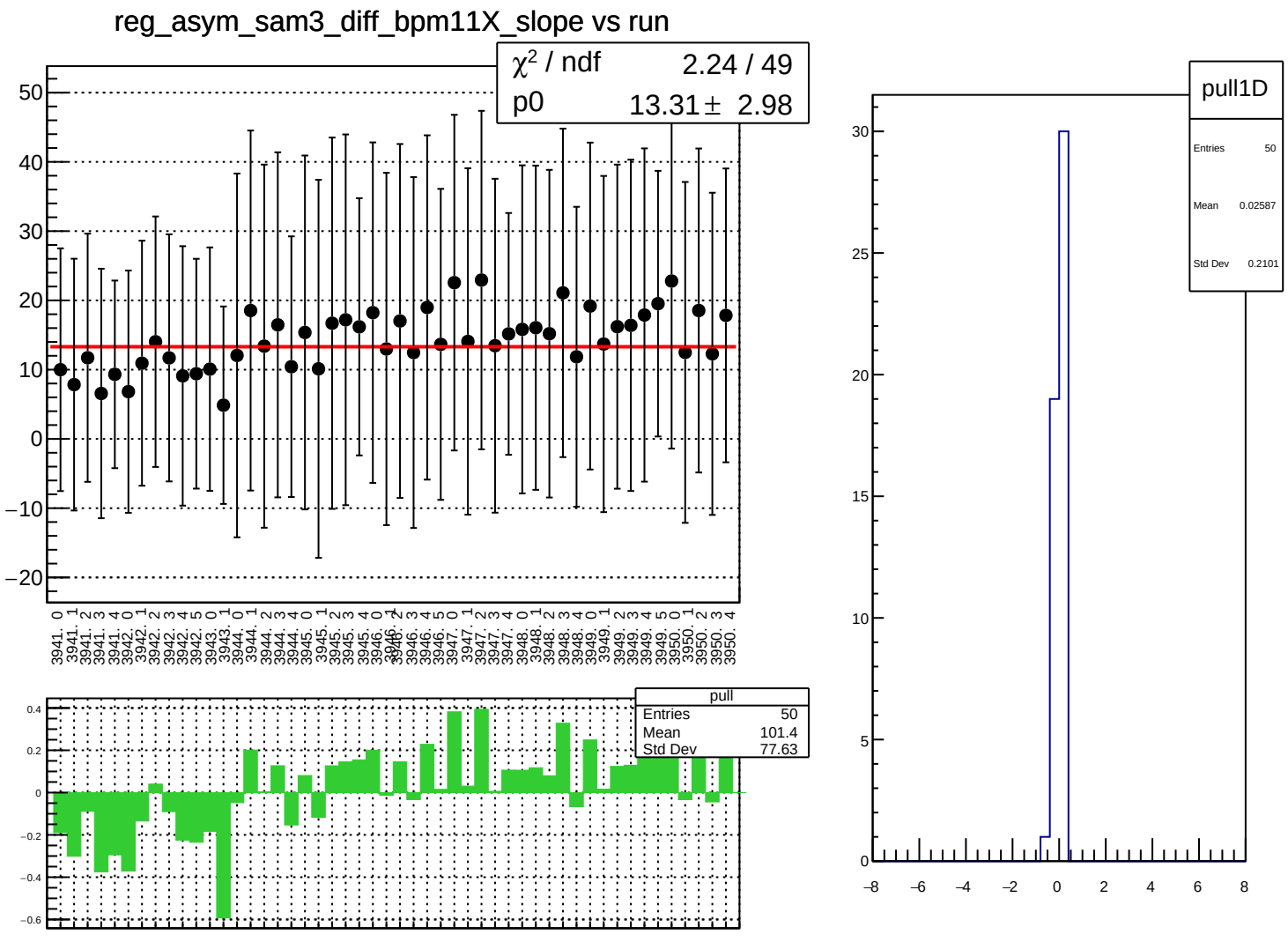

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.015 / 49
p0 10.34 ± 10.47
pull
Entries 50
Mean 53.86
Std Dev 4.176

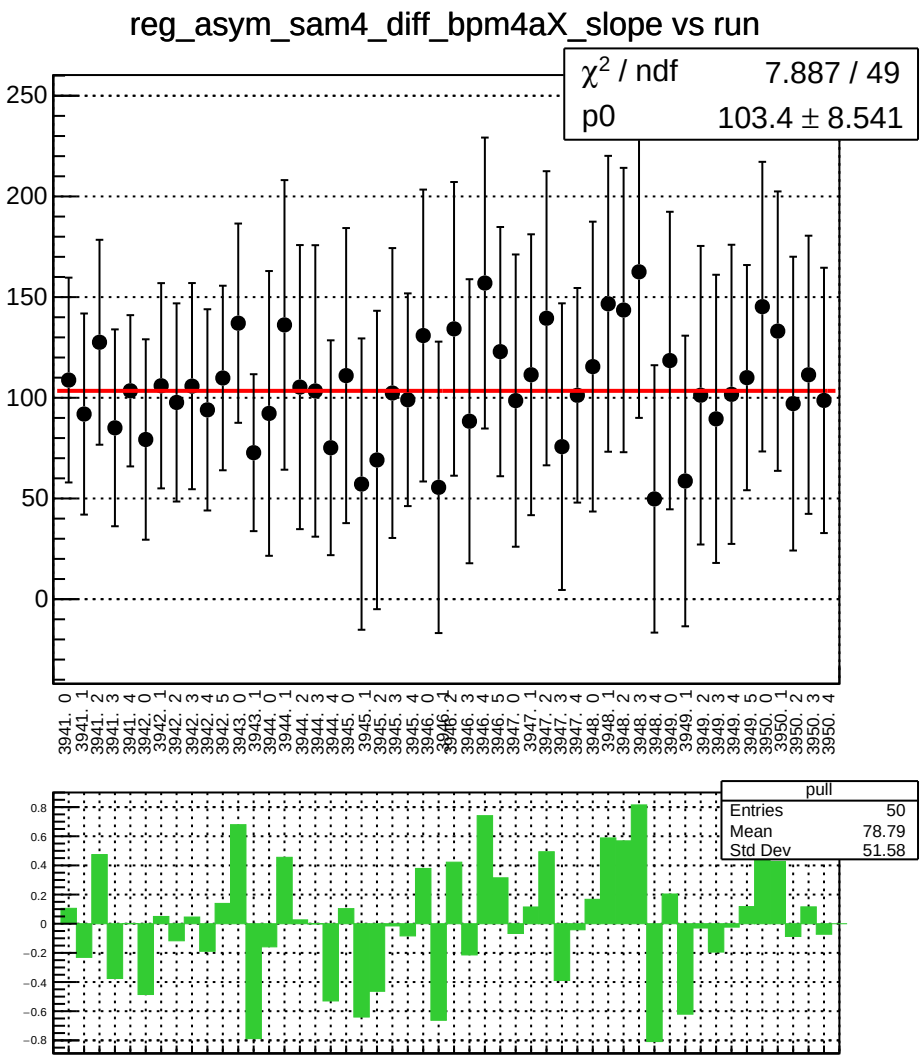

pull1D
Entries 50
Mean −0.003272
Std Dev 0.1424

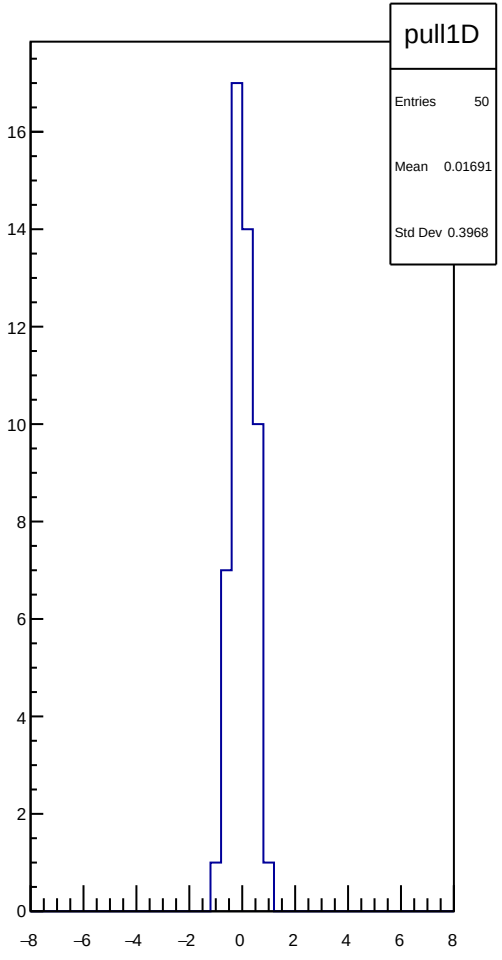

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 1173 / 49
p0 −1011 ± 2.32
−900
−950
−1000
−1050
−1100
pull
Entries 50
Mean 65.64
Std Dev 42.28
pull1D
Entries 50
Mean −1.414
Std Dev 4.54

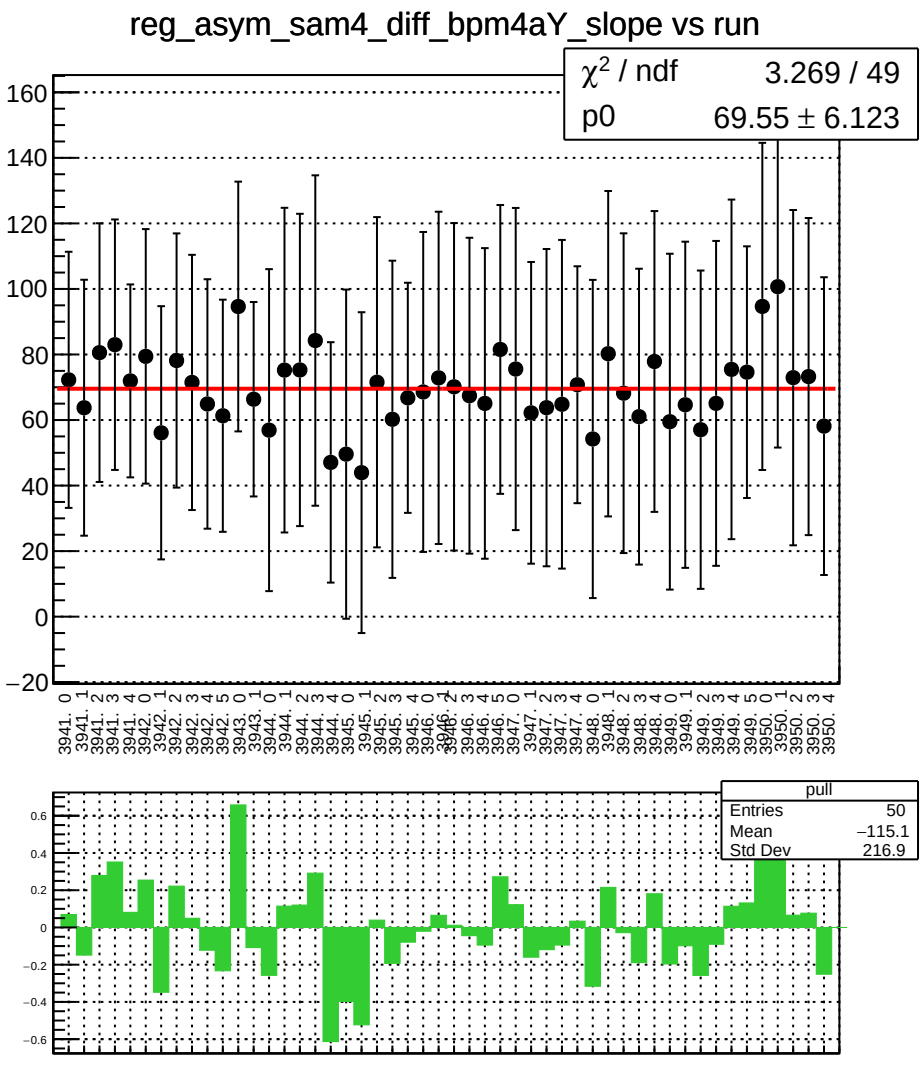

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.058 / 49
p0 −20.37 ± 17.59
pull
Entries 50
Mean 82.92
Std Dev 55.3

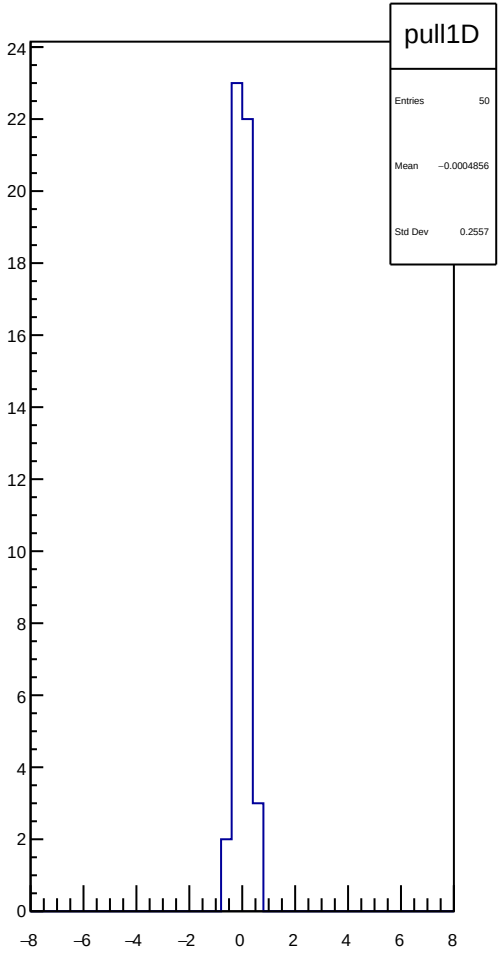

pull1D
Entries 50
Mean 0.005469
Std Dev 0.1454

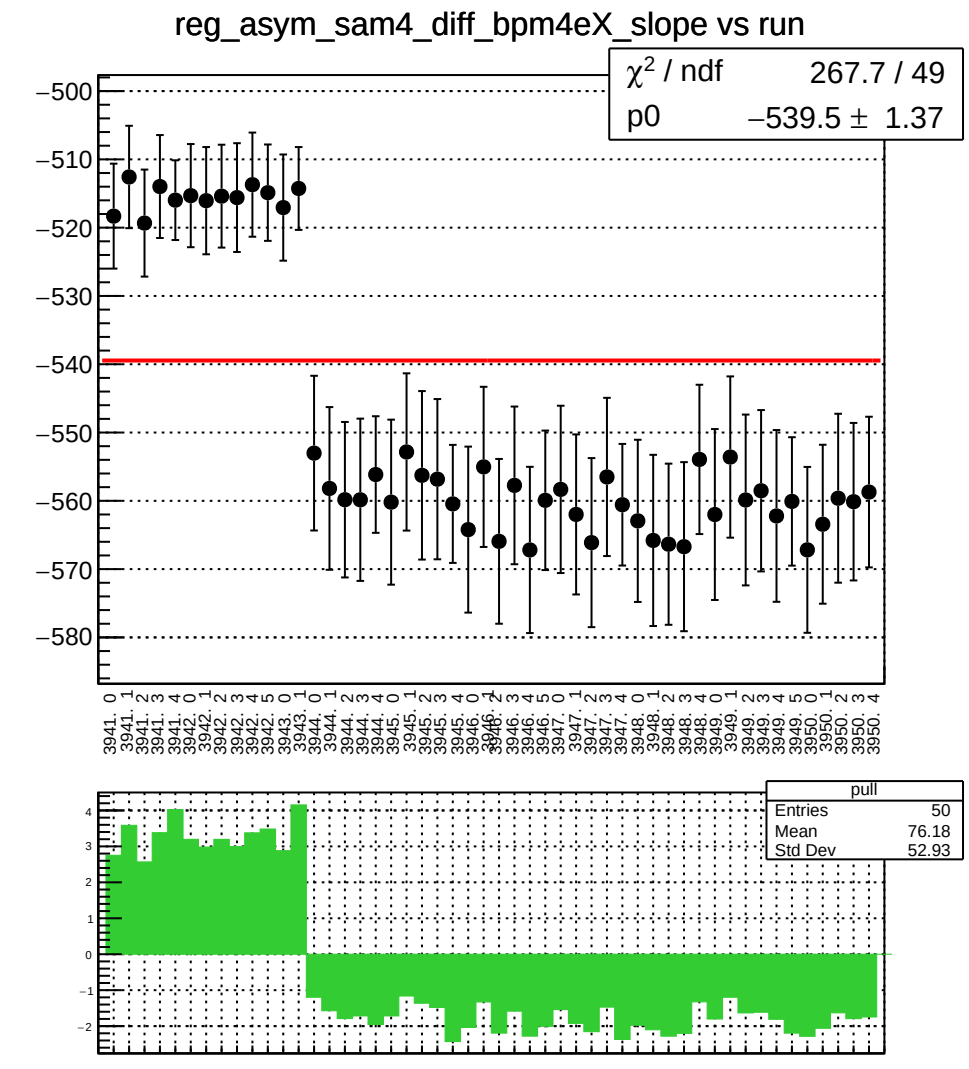

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 2.24 / 49
p0 13.31 ± 2.98
pull
Entries 50
Mean 101.4
Std Dev 77.63
pull1D
Entries 50
Mean 0.02587
Std Dev 0.2101

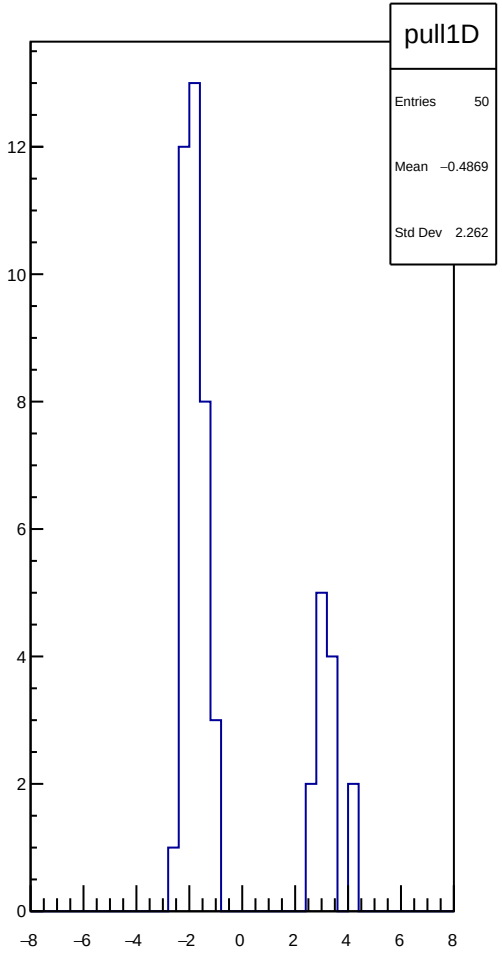

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 7.887 / 49
p0 103.4 ± 8.541
pull
Entries 50
Mean 78.79
Std Dev 51.58

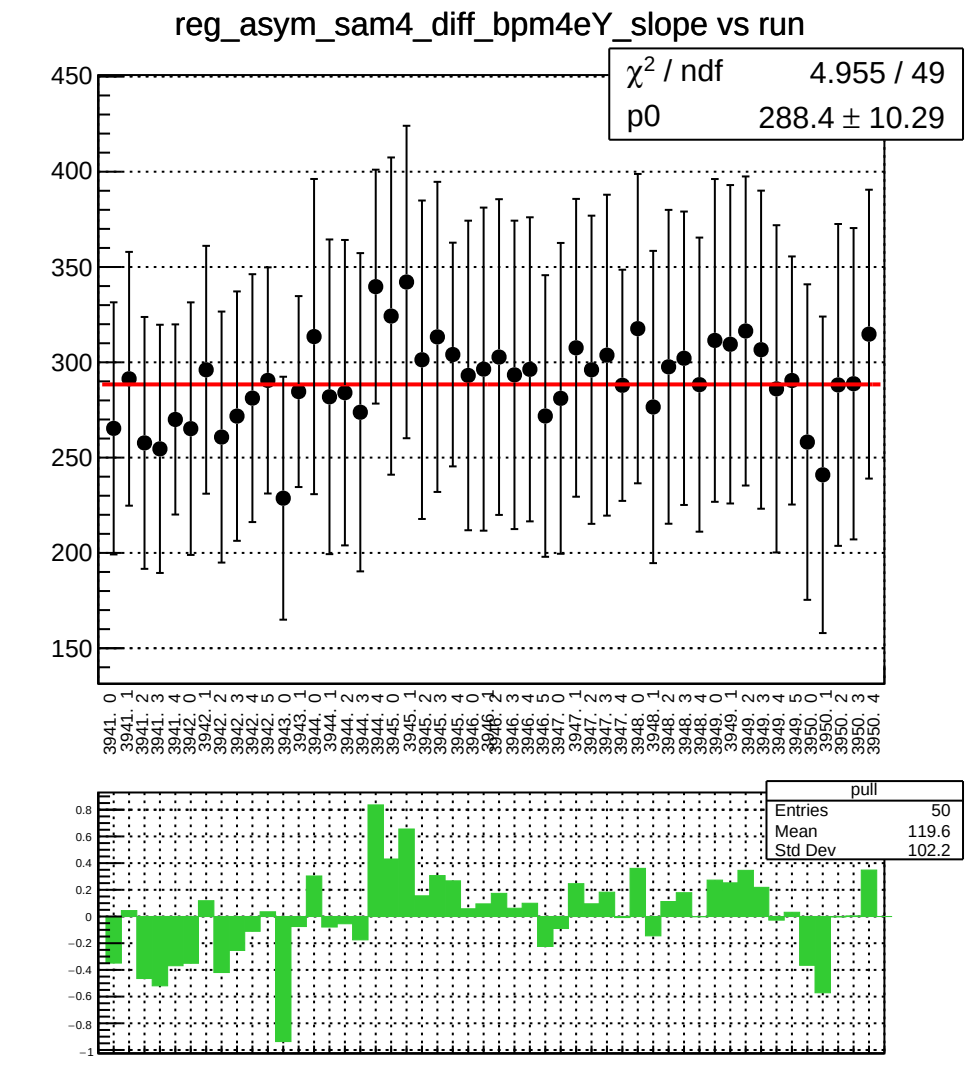

pull1D
Entries 50
Mean 0.01691
Std Dev 0.3968

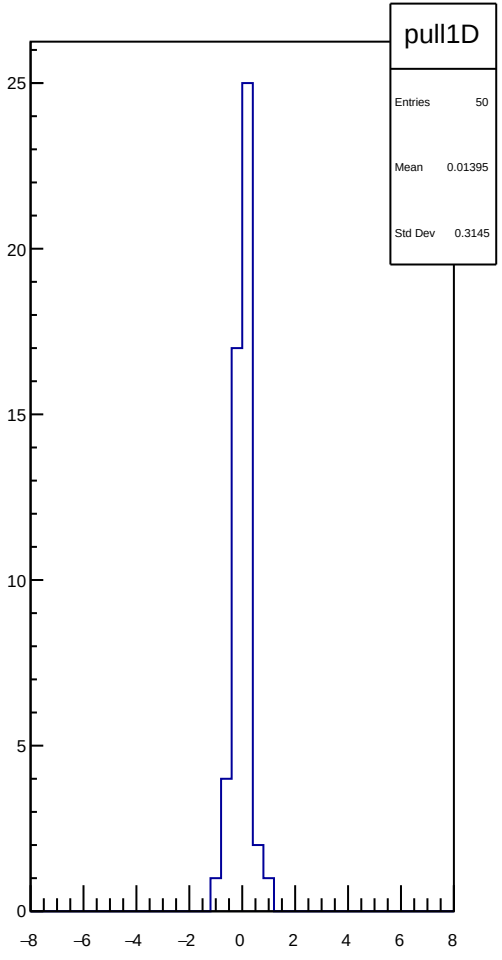

reg_asym_sam4_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 3.269 / 49
p0 69.55 ± 6.123
pull
Entries 50
Mean −115.1
Std Dev 216.9

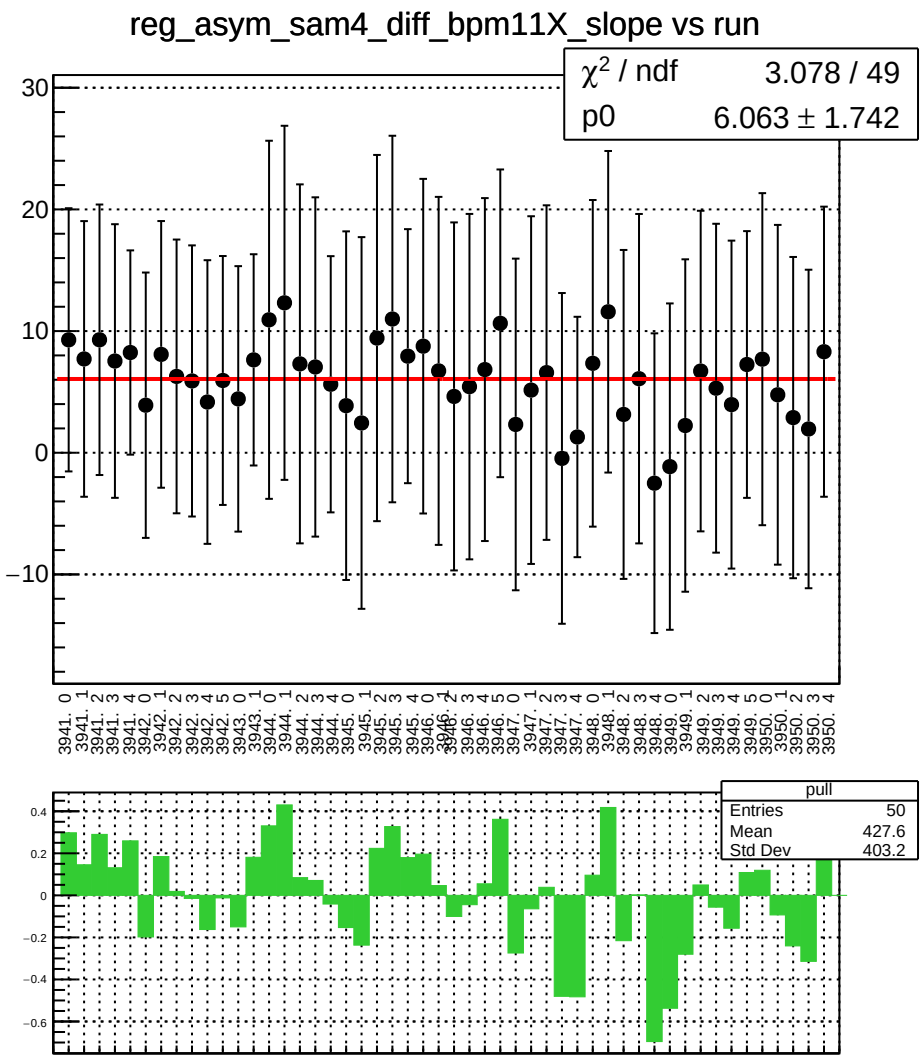

pull1D
Entries 50
Mean −0.0004856
Std Dev 0.2557

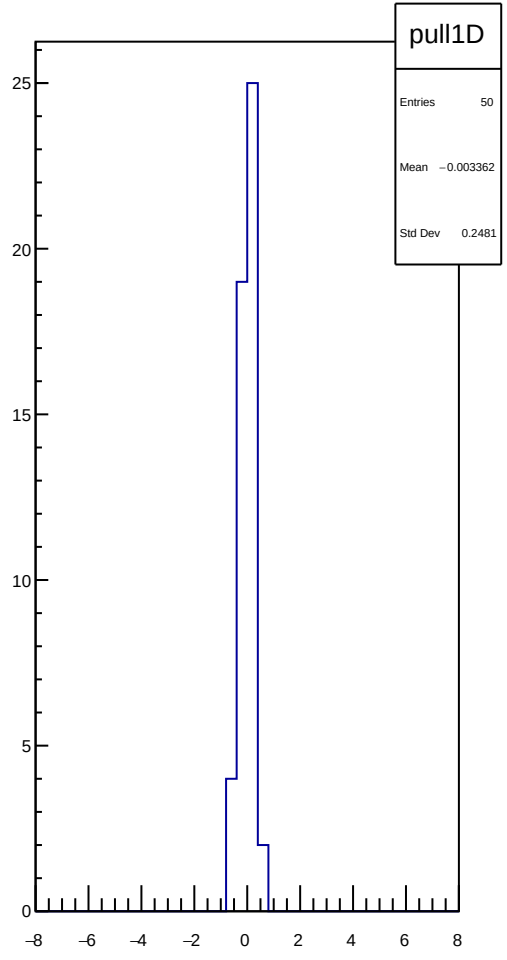

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 267.7 / 49
p0 −539.5 ± 1.37
pull
Entries 50
Mean 76.18
Std Dev 52.93

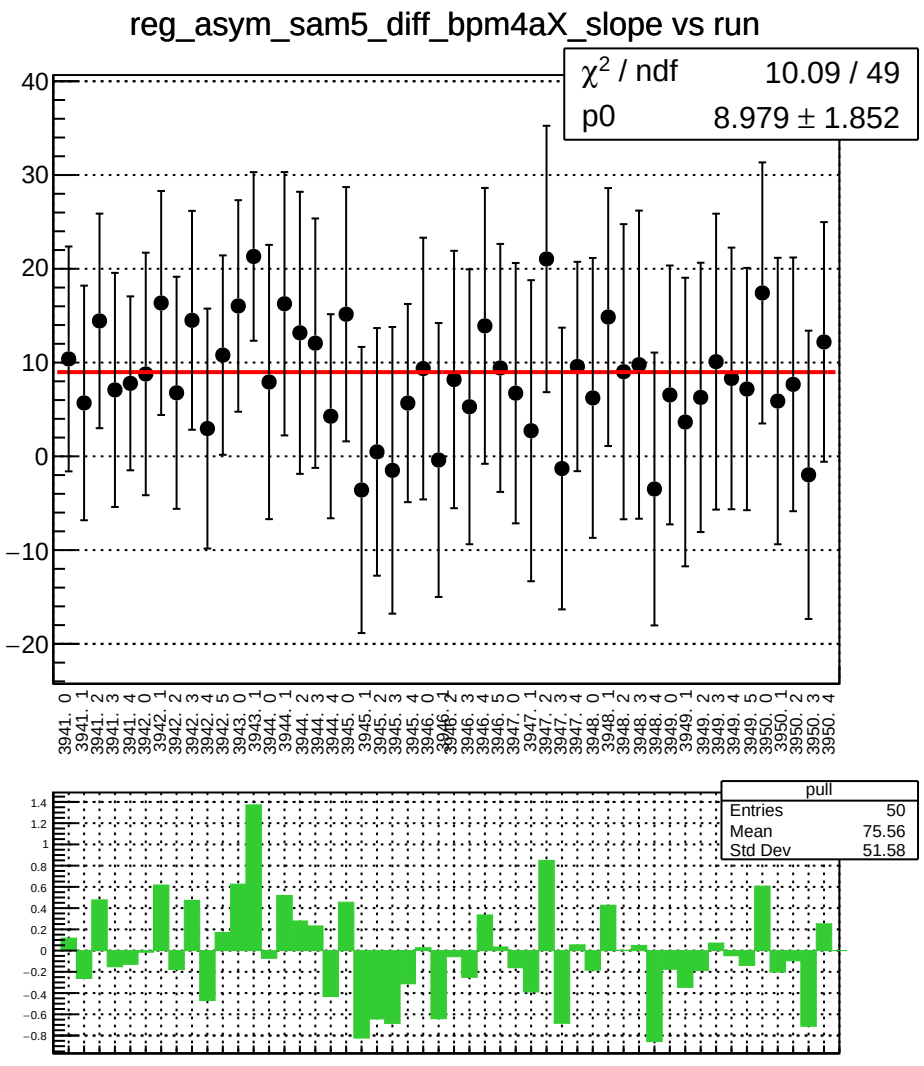

pull1D
Entries 50
Mean −0.4869
Std Dev 2.262

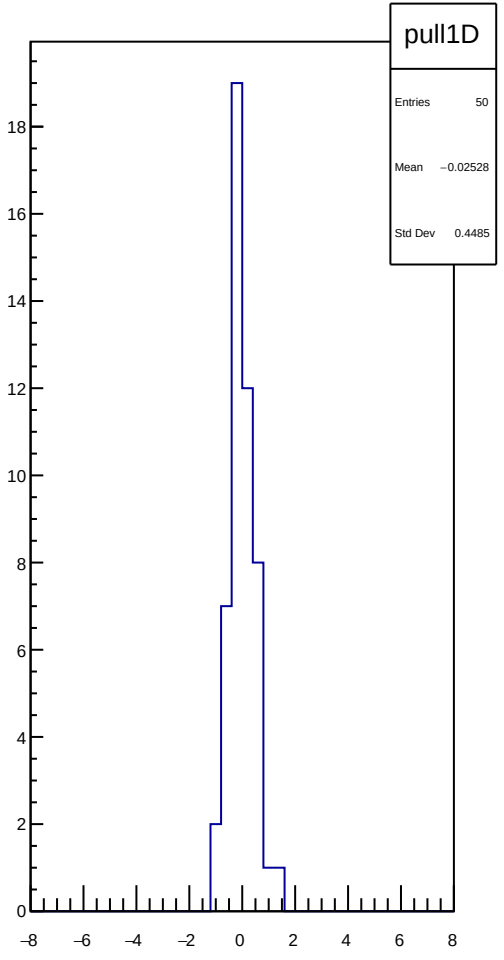

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.955 / 49
p0 288.4 ± 10.29
pull
Entries 50
Mean 119.6
Std Dev 102.2

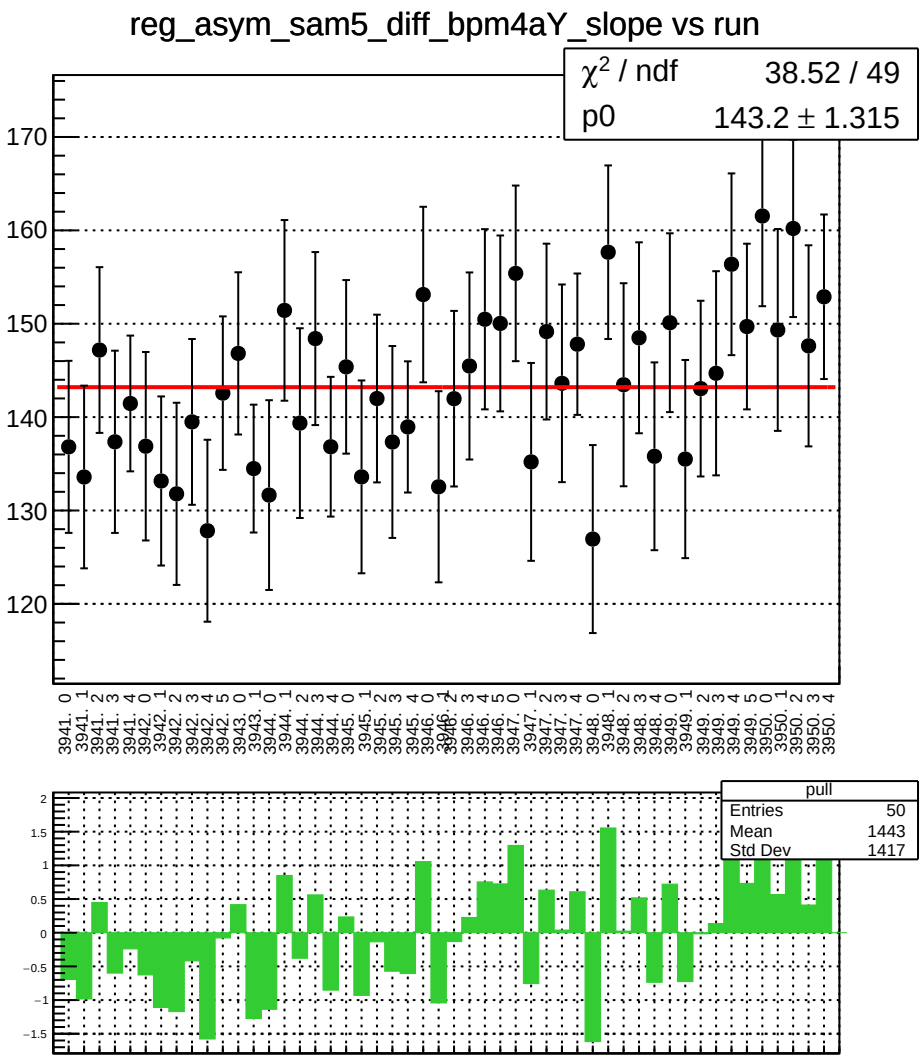

pull1D
Entries 50
Mean 0.01395
Std Dev 0.3145

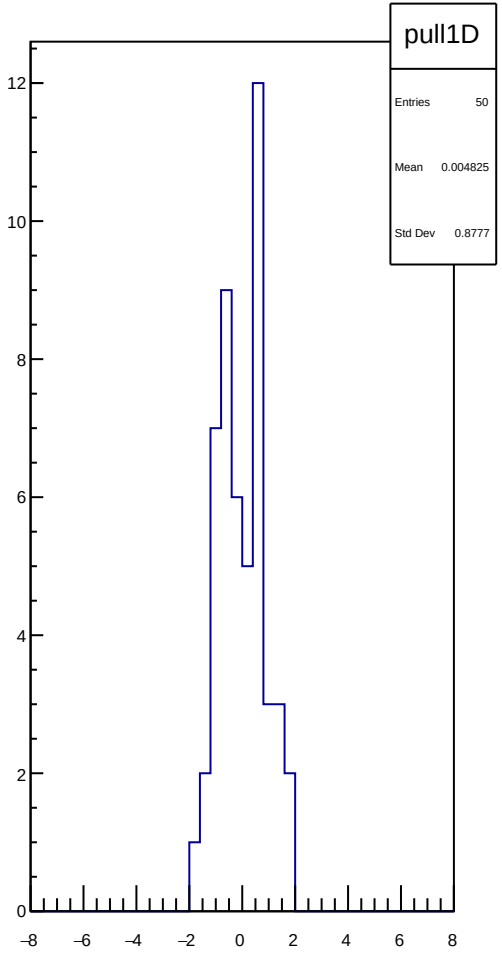

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 3.078 / 49
p0 6.063 ± 1.742
pull
Entries 50
Mean 427.6
Std Dev 403.2

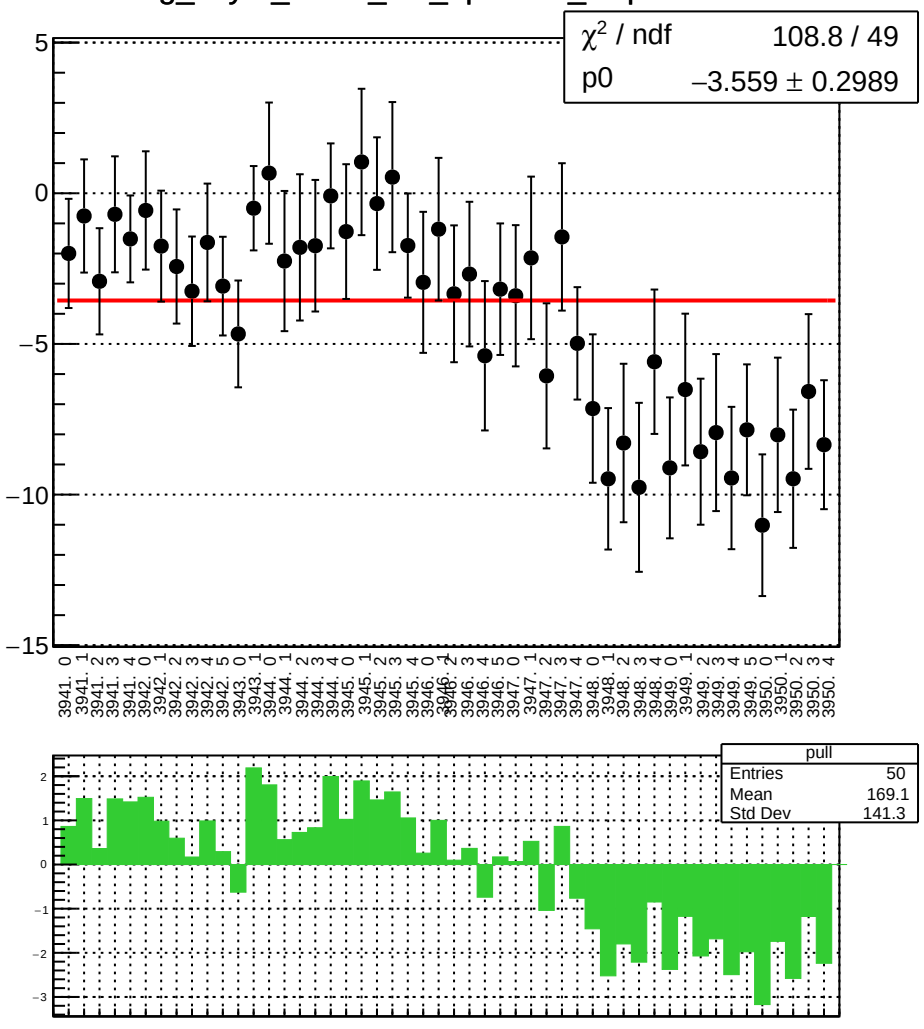

pull1D
Entries 50
Mean −0.003362
Std Dev 0.2481

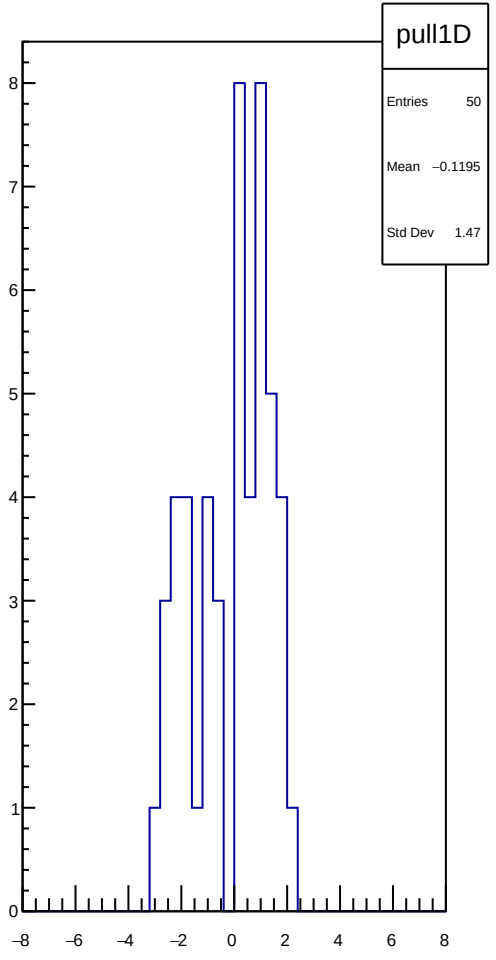

reg_asym_sam5_diff_bpm4aX_slope vs run
$\chi^2$ / ndf 10.09 / 49
p0 8.979 ± 1.852
pull
Entries 50
Mean 75.56
Std Dev 51.58

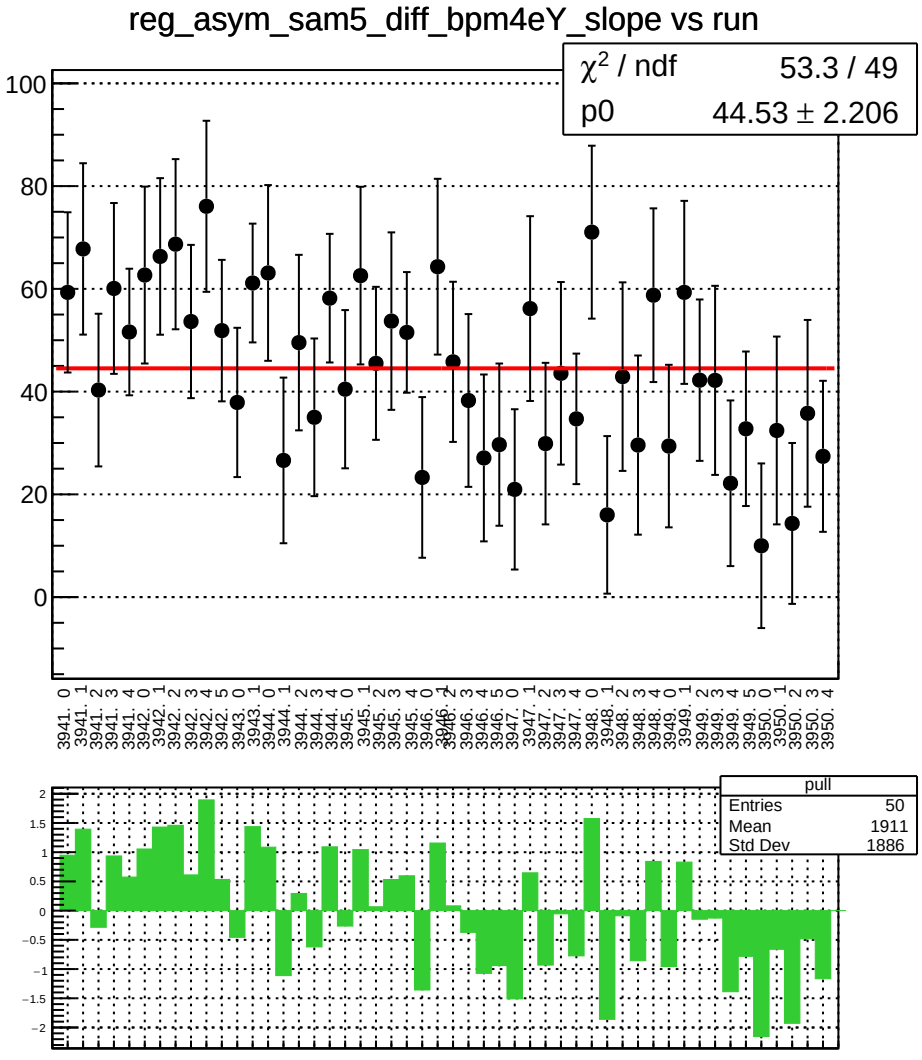

pull1D
Entries 50
Mean −0.02528
Std Dev 0.4485

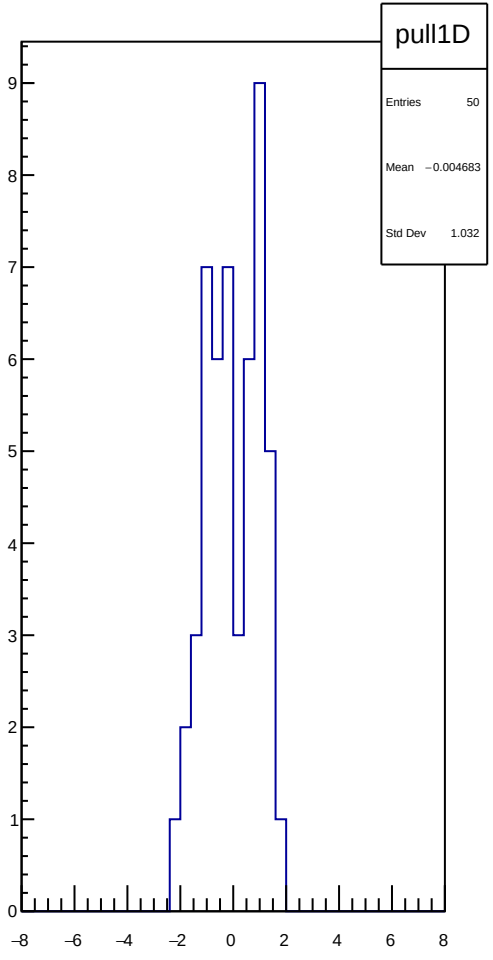

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 38.52 / 49
p0 143.2 ± 1.315
pull
Entries 50
Mean 1443
Std Dev 1417

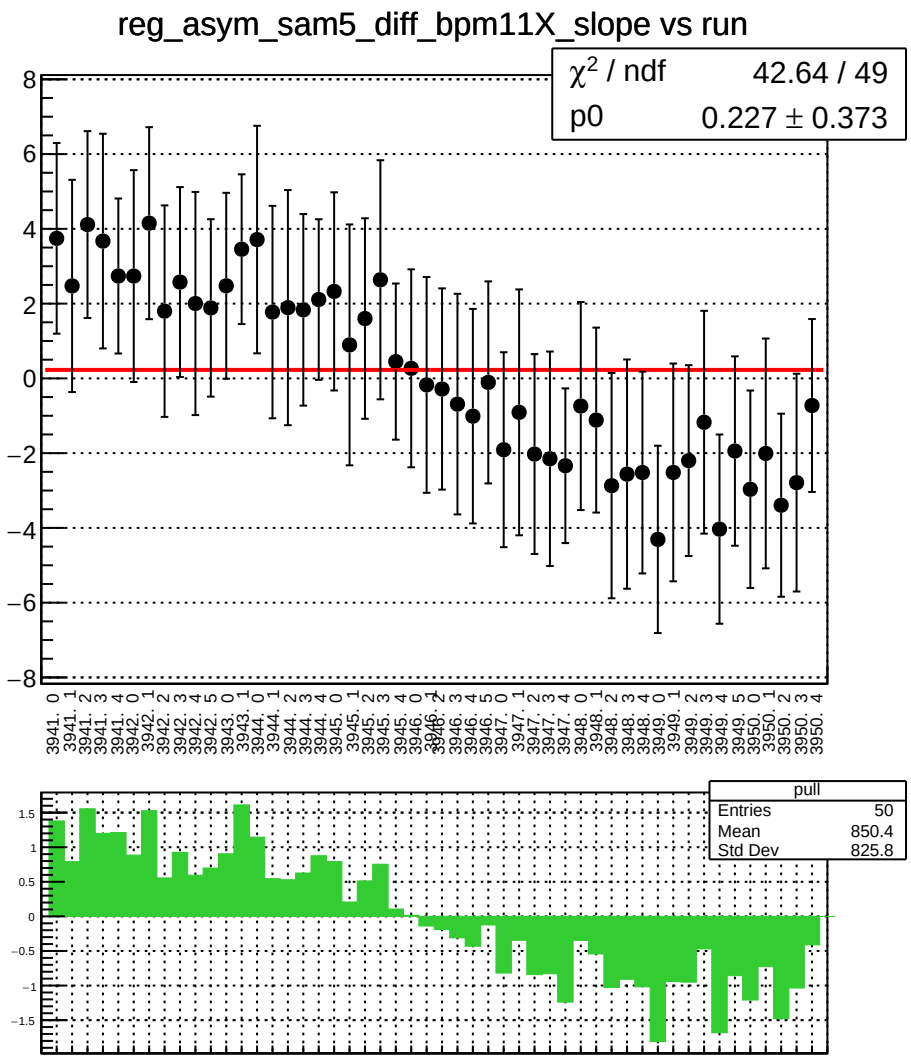

pull1D
Entries 50
Mean 0.004825
Std Dev 0.8777

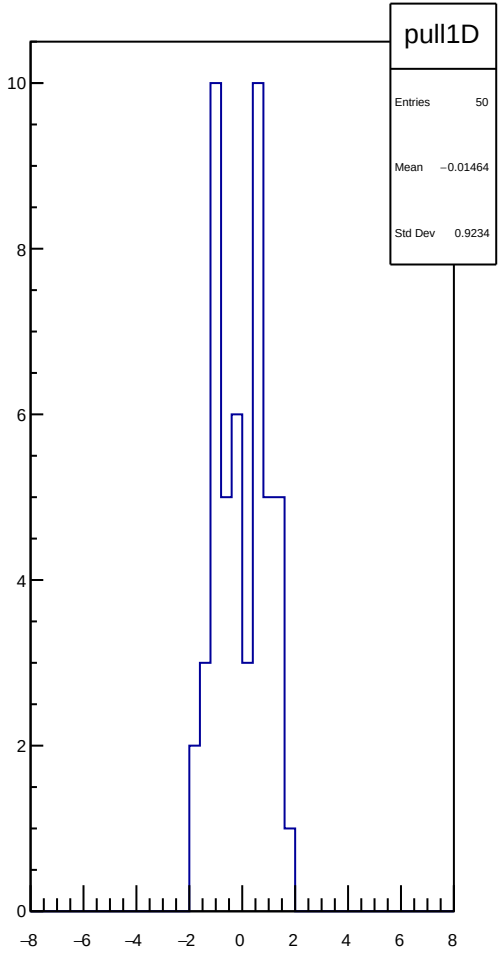

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 108.8 / 49
p0 −3.559 ± 0.2989
pull
Entries 50
Mean 169.1
Std Dev 141.3

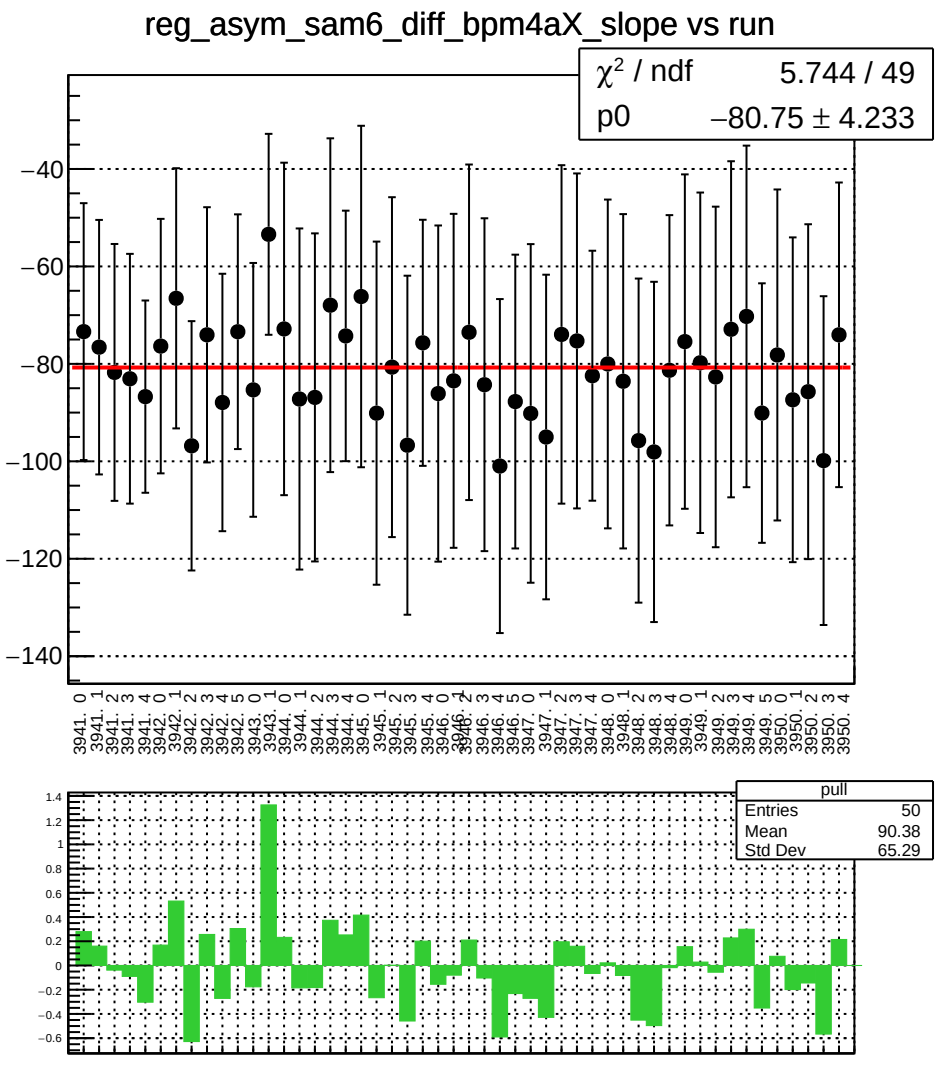

pull1D
Entries 50
Mean −0.1195
Std Dev 1.47

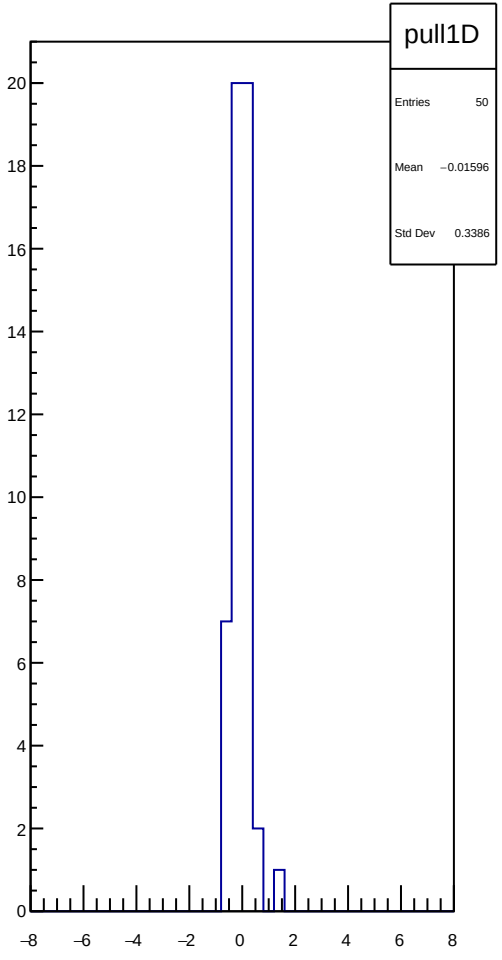

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 53.3 / 49
p0 44.53 ± 2.206
pull
Entries 50
Mean 1911
Std Dev 1886

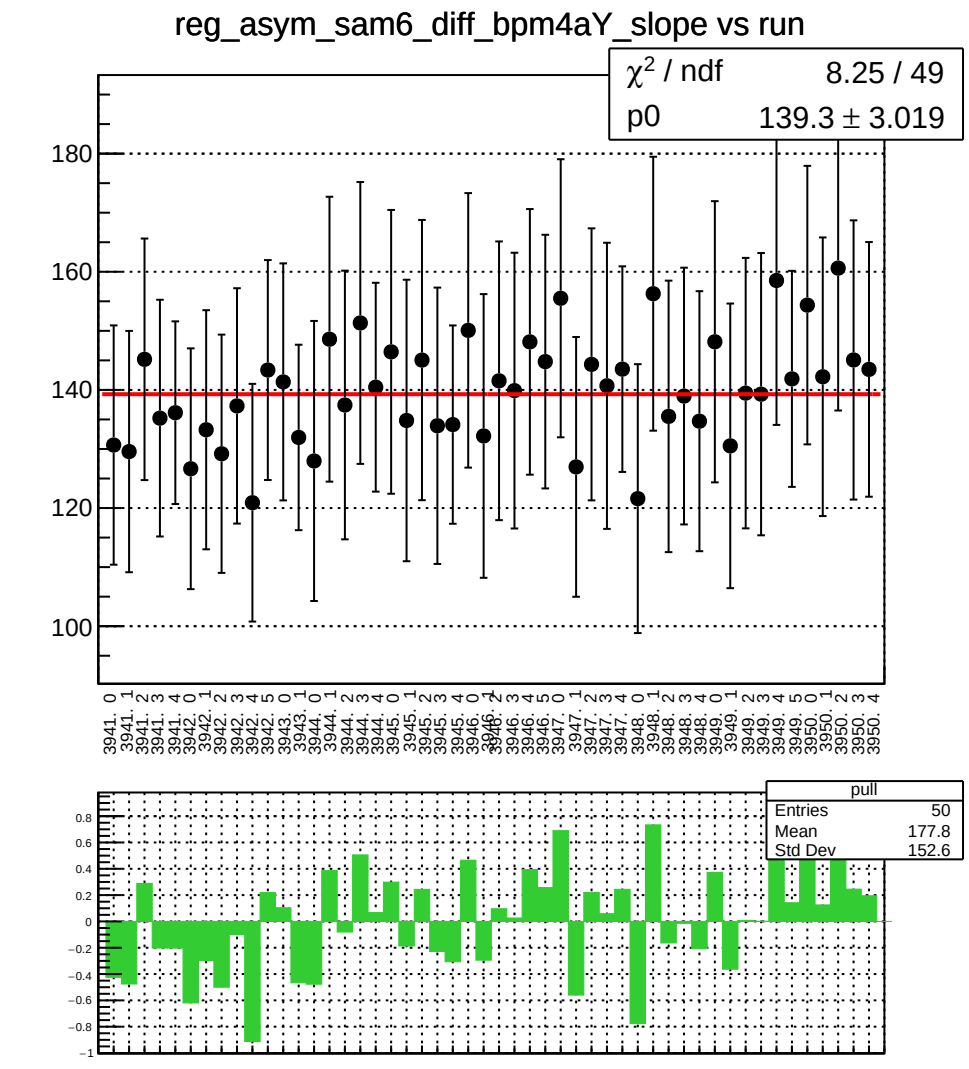

pull1D
Entries 50
Mean −0.004683
Std Dev 1.032

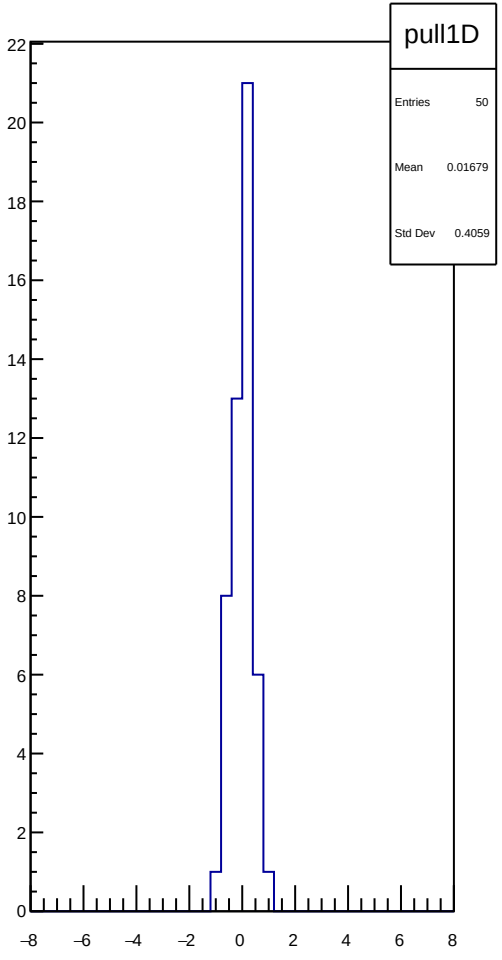

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 42.64 / 49
p0 0.227 ± 0.373
pull
Entries 50
Mean 850.4
Std Dev 825.8

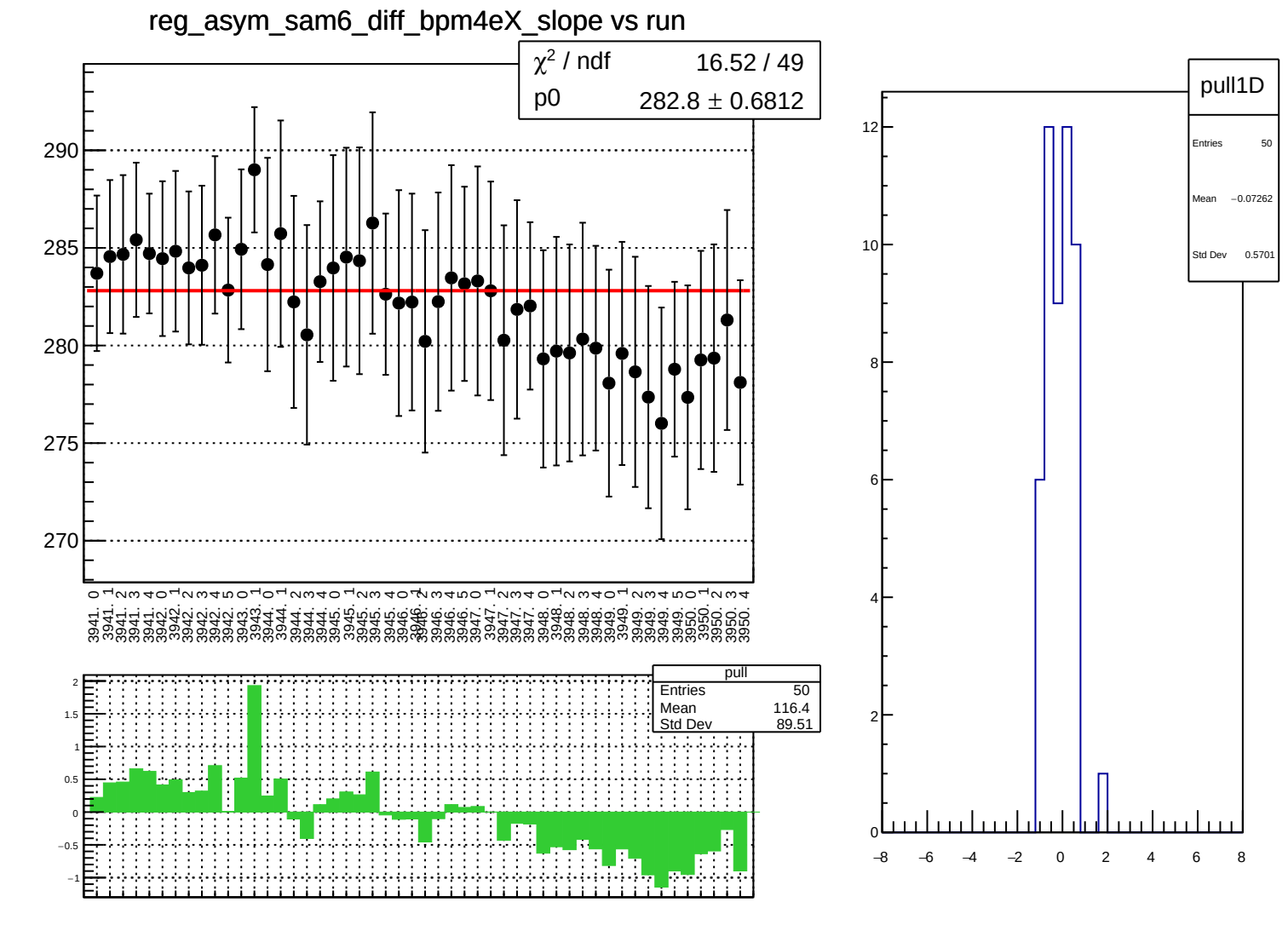

pull1D
Entries 50
Mean −0.01464
Std Dev 0.9234

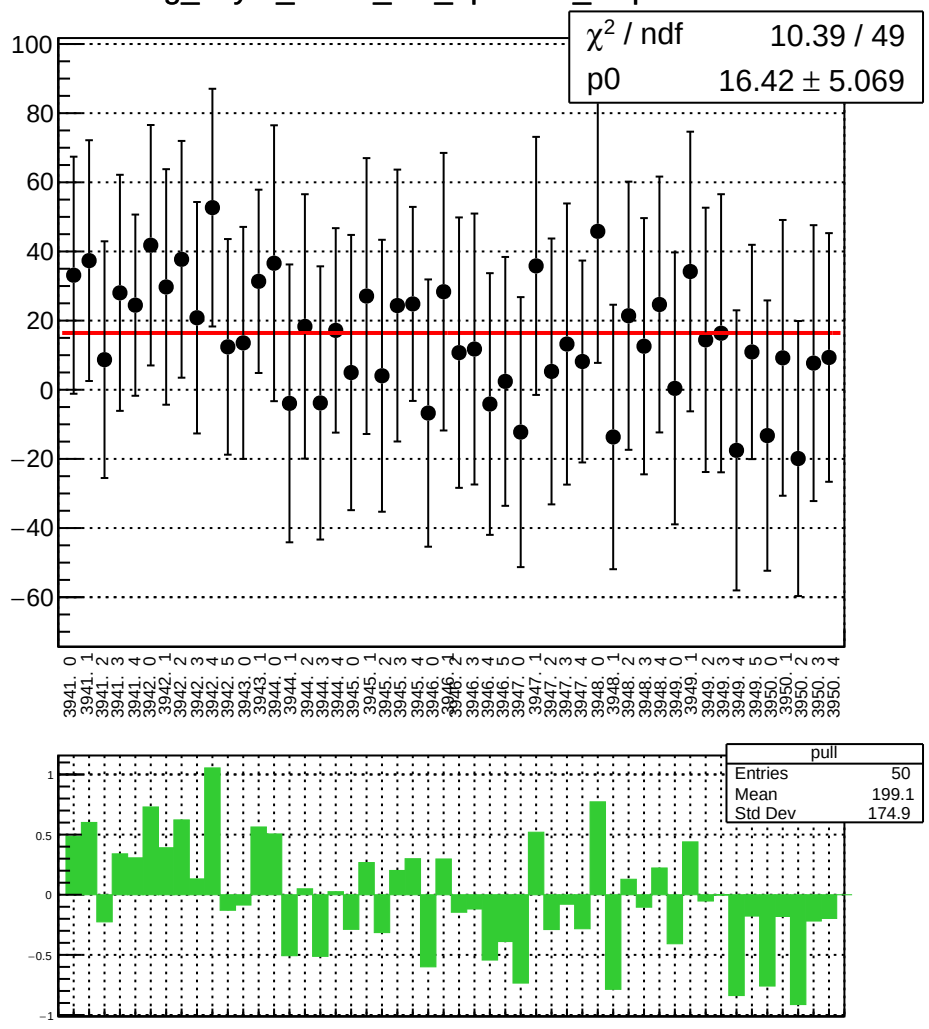

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 5.744 / 49
p0 −80.75 ± 4.233
pull
Entries 50
Mean 90.38
Std Dev 65.29

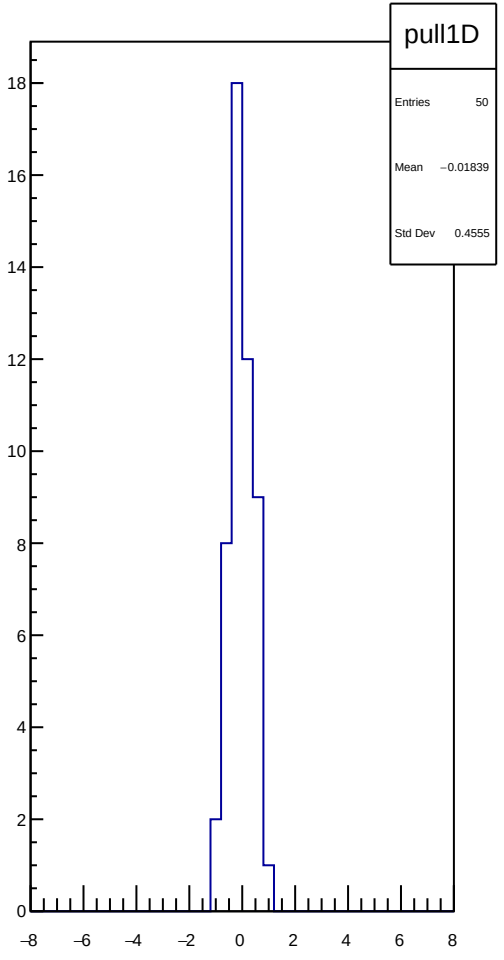

pull1D
Entries 50
Mean −0.01596
Std Dev 0.3386

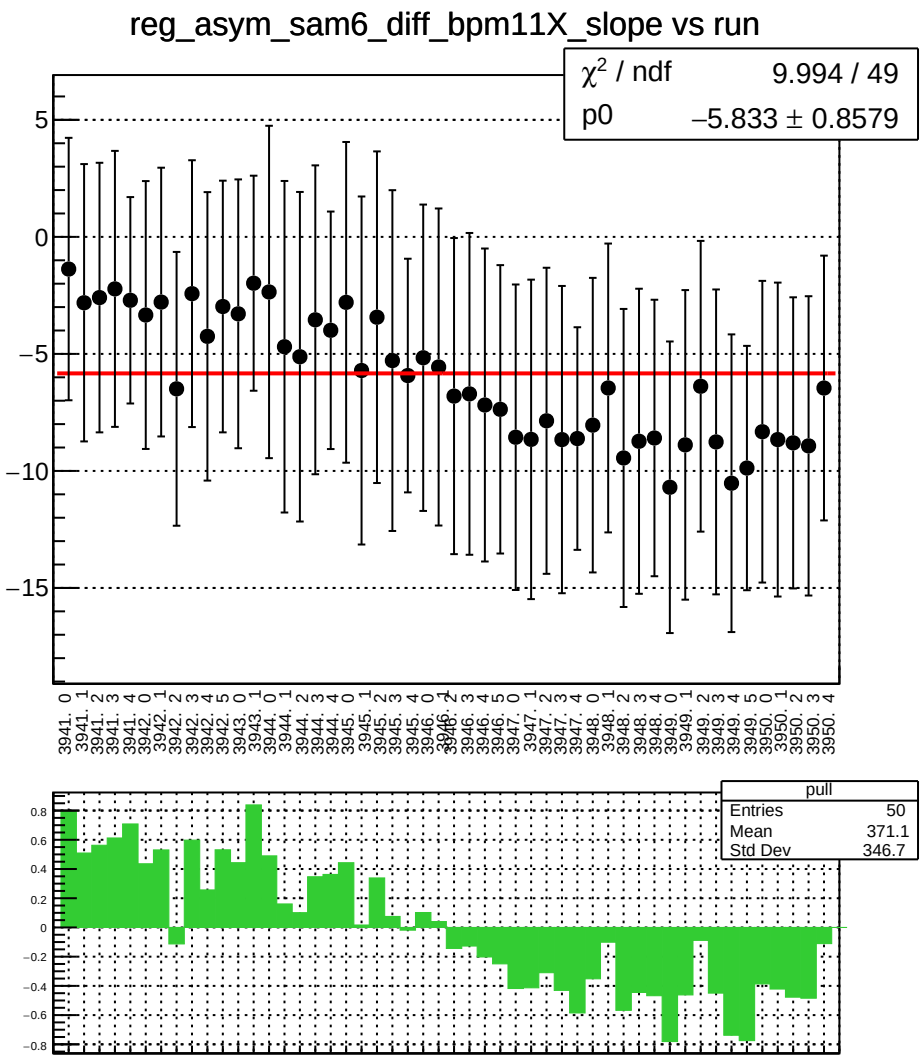

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 8.25 / 49
p0 139.3 ± 3.019
pull
Entries 50
Mean 177.8
Std Dev 152.6

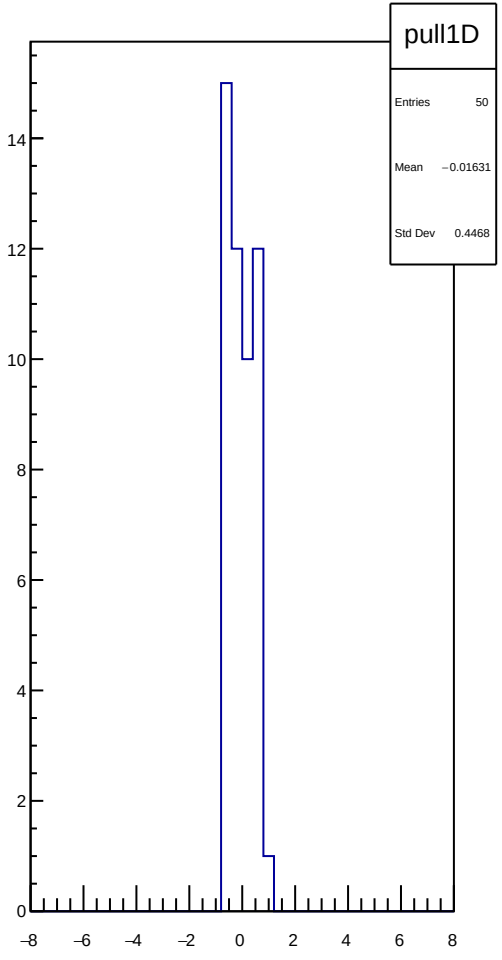

pull1D
Entries 50
Mean 0.01679
Std Dev 0.4059

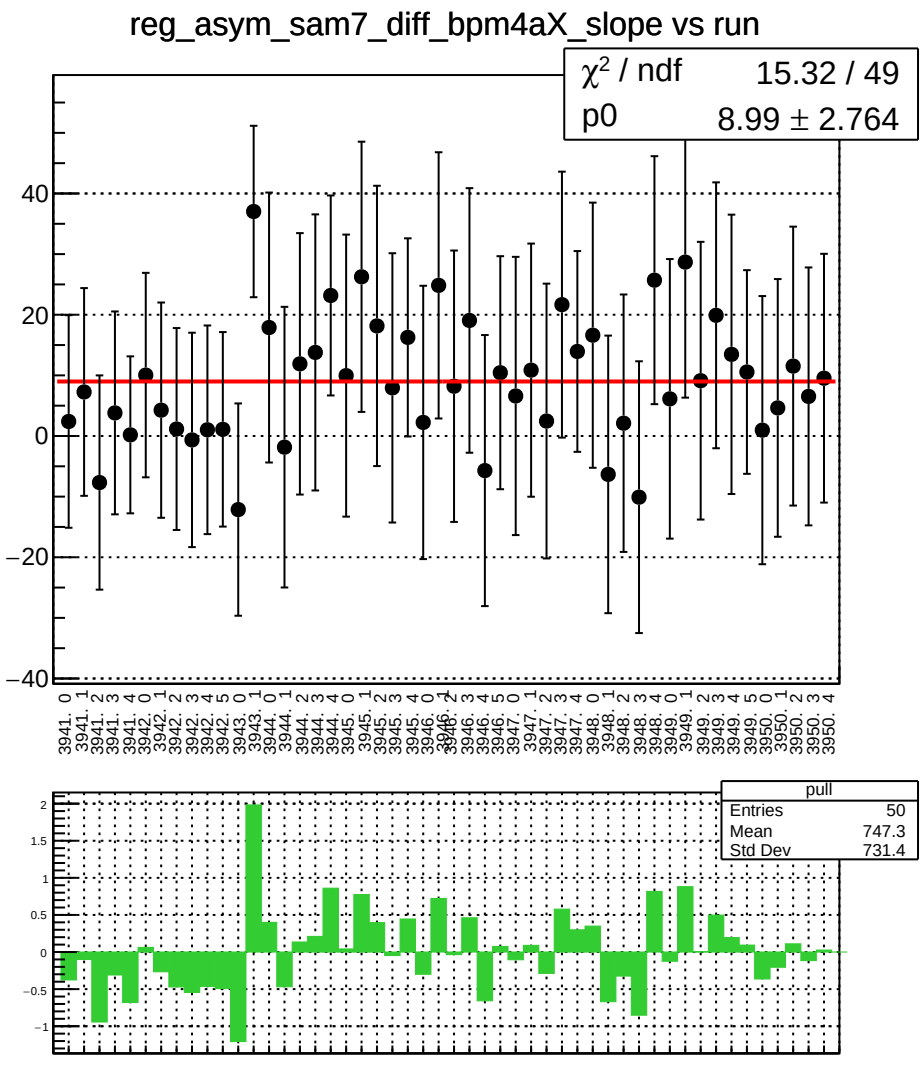

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 16.52 / 49
p0 282.8 ± 0.6812
290
285
280
275
270
pull
Entries 50
Mean 116.4
Std Dev 89.51
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean −0.07262
Std Dev 0.5701
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

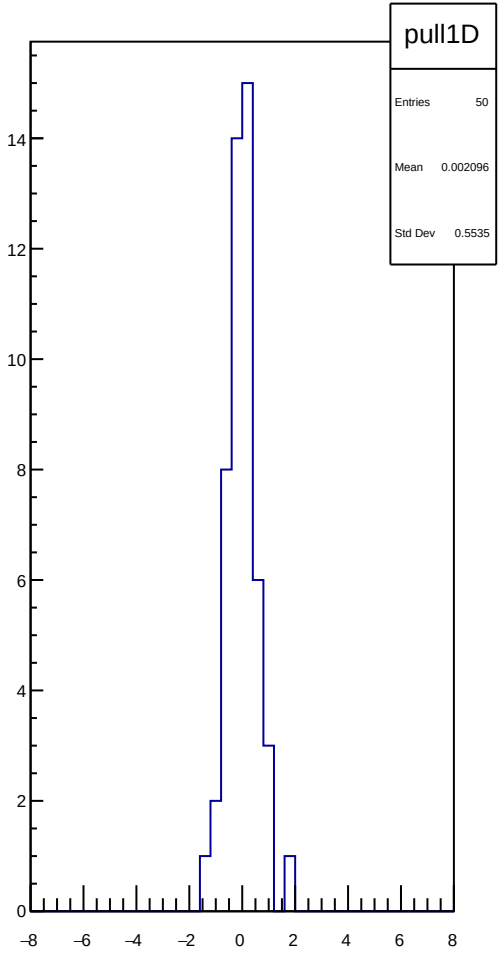

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 10.39 / 49
p0 16.42 ± 5.069
pull
Entries 50
Mean 199.1
Std Dev 174.9

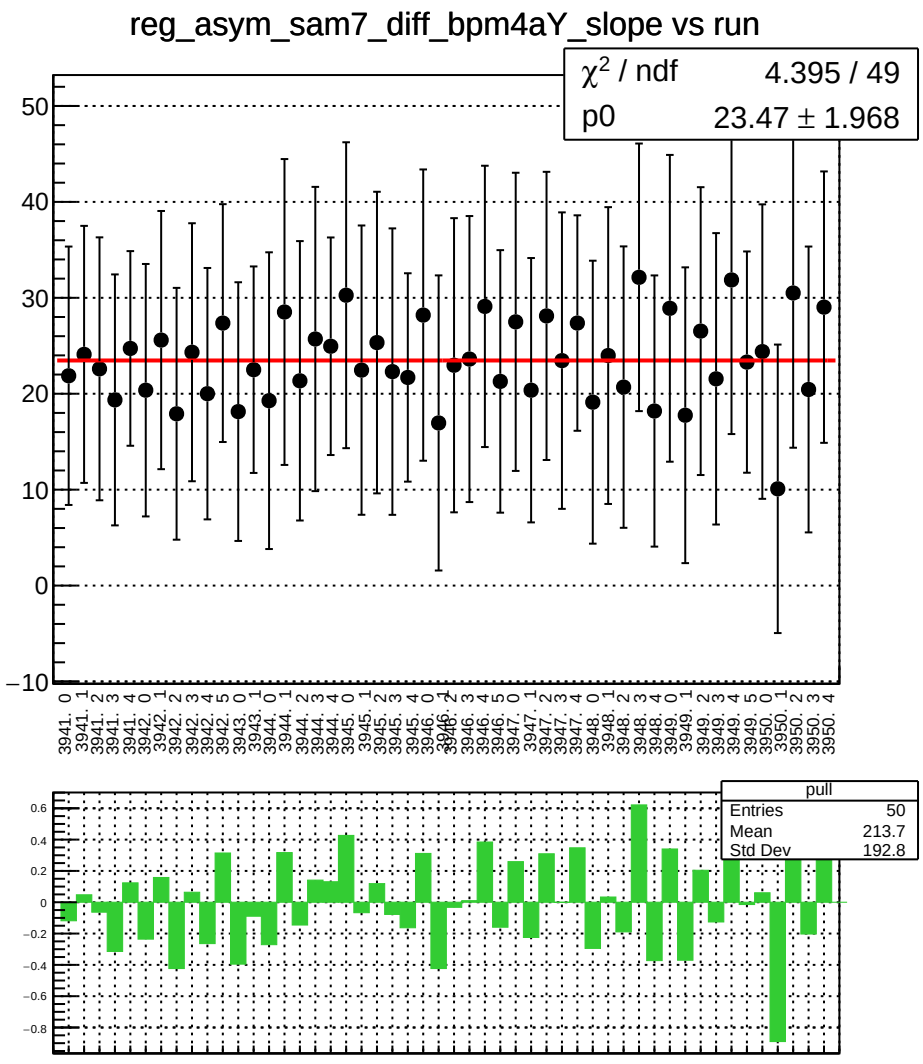

pull1D
Entries 50
Mean −0.01839
Std Dev 0.4555

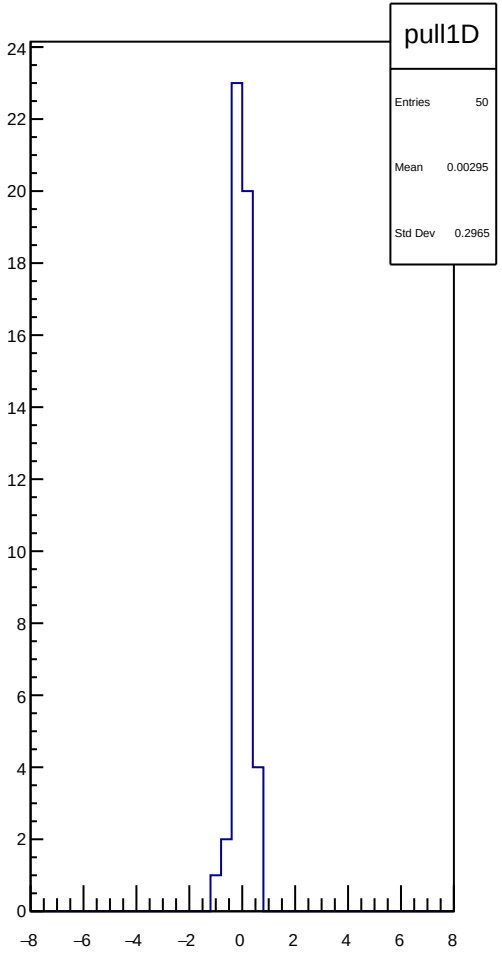

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 9.994 / 49
p0 −5.833 ± 0.8579
pull
Entries 50
Mean 371.1
Std Dev 346.7

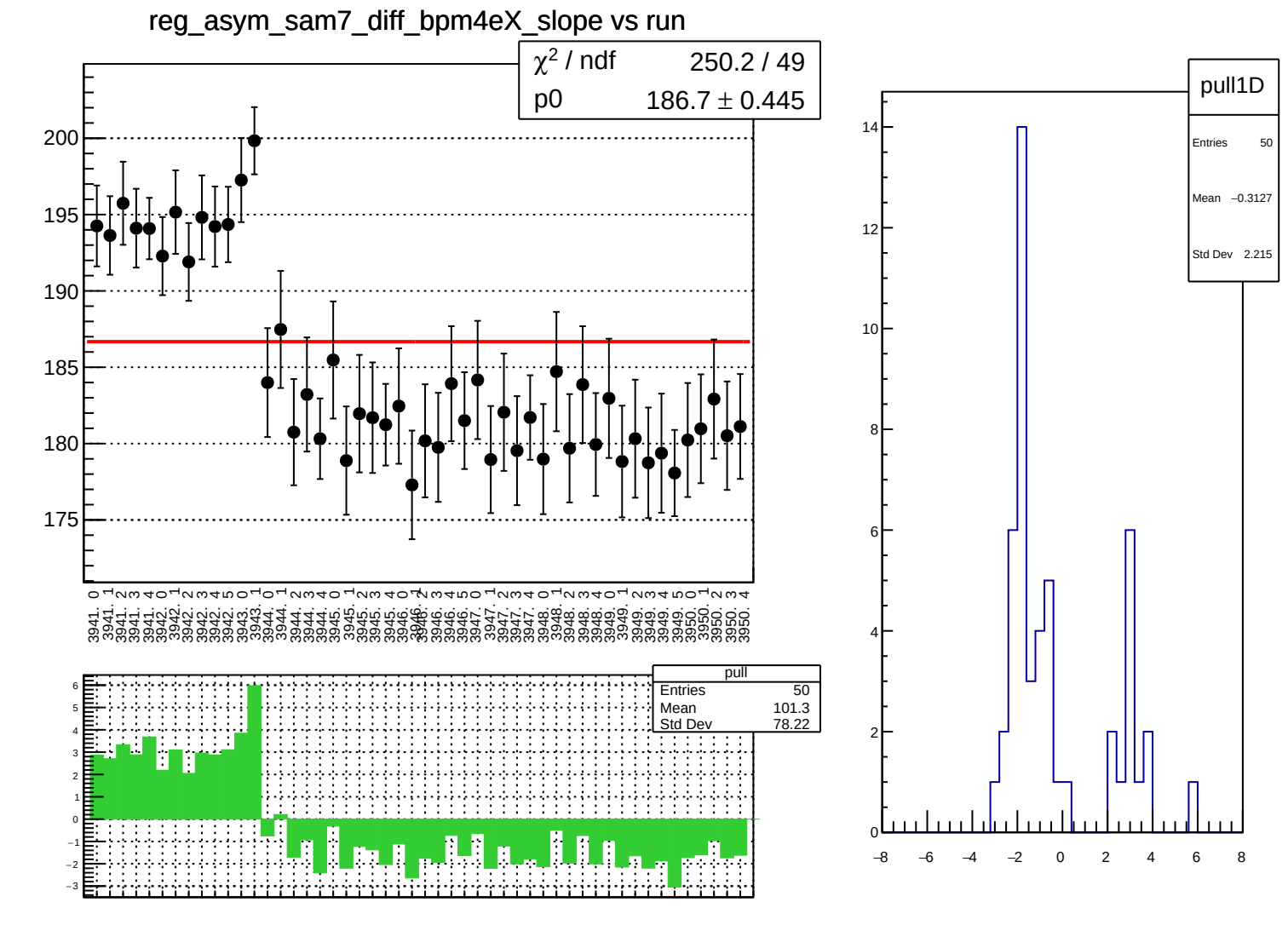

pull1D
Entries 50
Mean −0.01631
Std Dev 0.4468

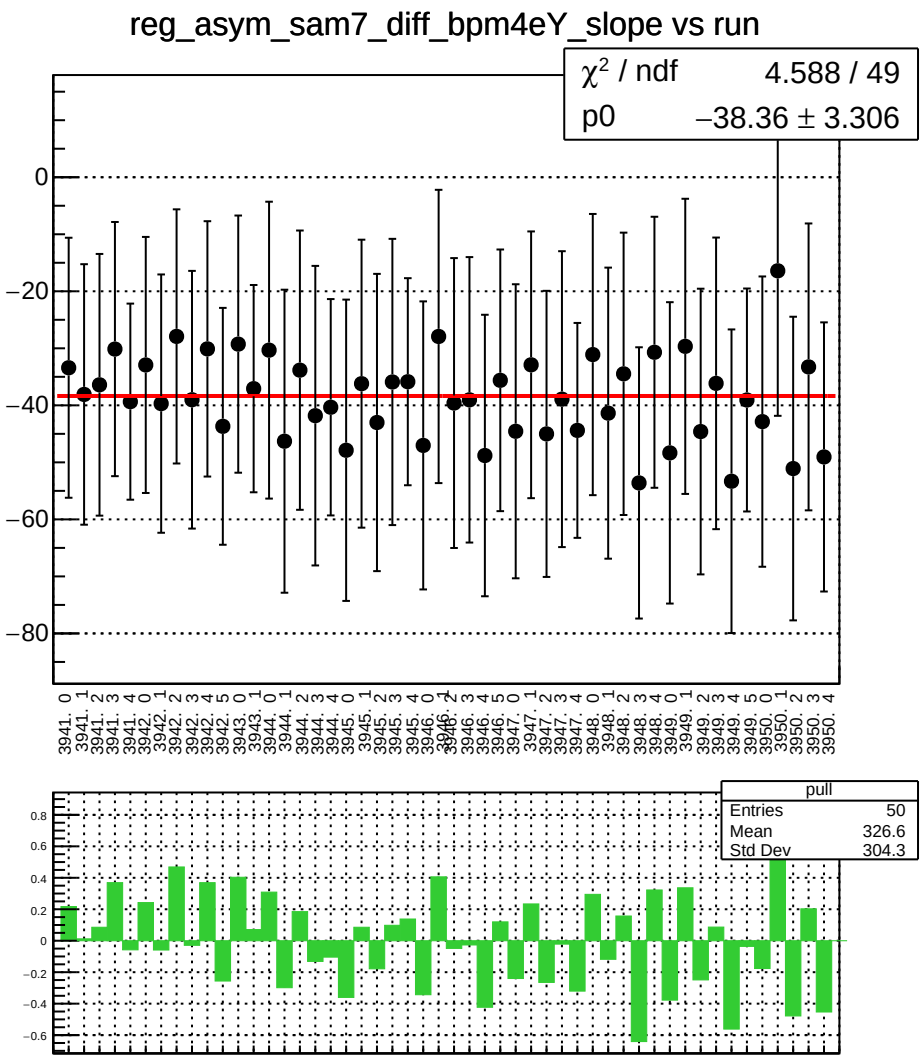

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 15.32 / 49
p0 8.99 ± 2.764
pull
Entries 50
Mean 747.3
Std Dev 731.4

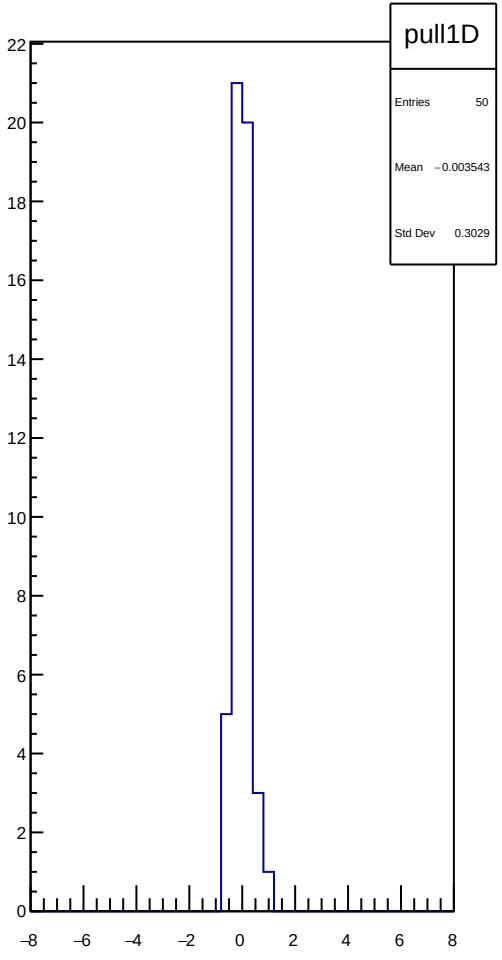

pull1D
Entries 50
Mean 0.002096
Std Dev 0.5535

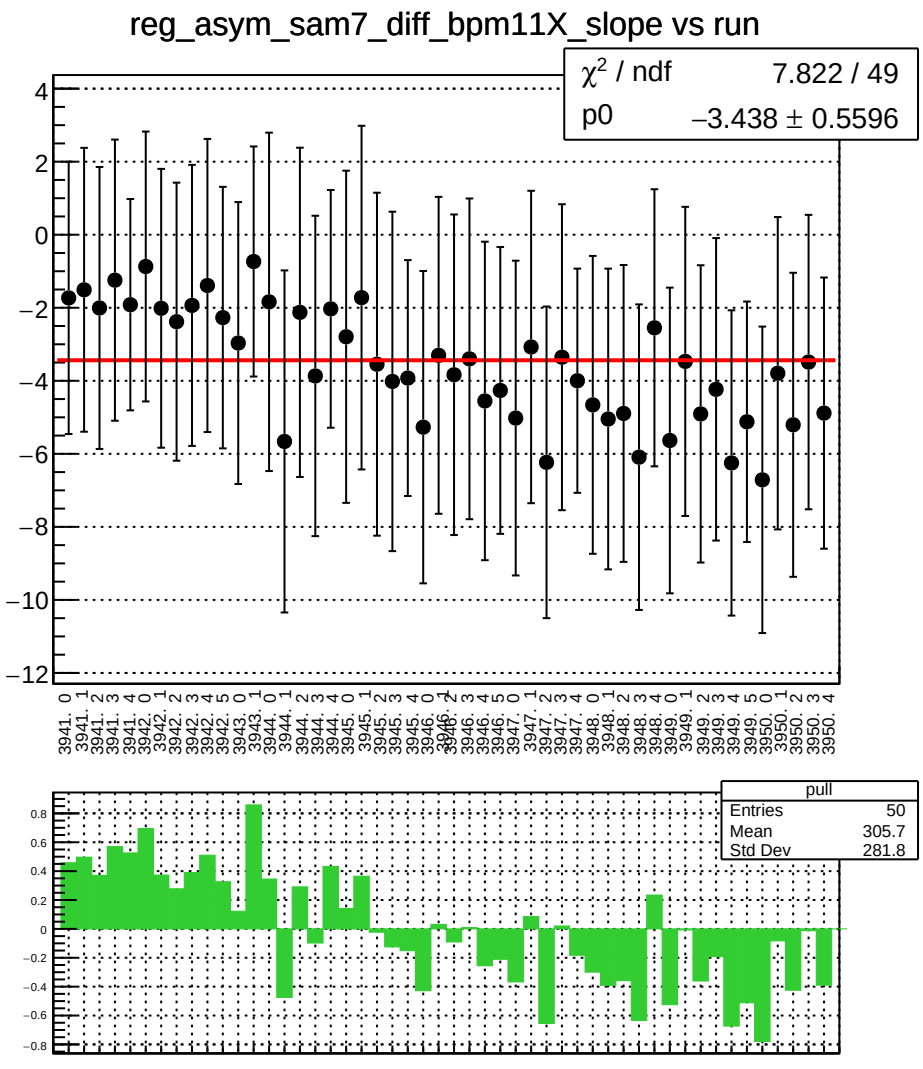

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 4.395 / 49
p0 23.47 ± 1.968
pull
Entries 50
Mean 213.7
Std Dev 192.8

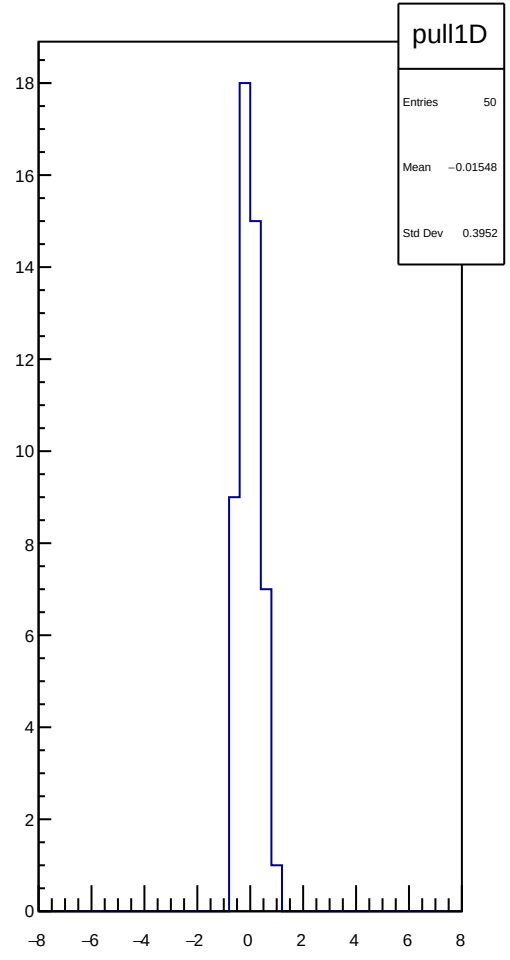

pull1D
Entries 50
Mean 0.00295
Std Dev 0.2965

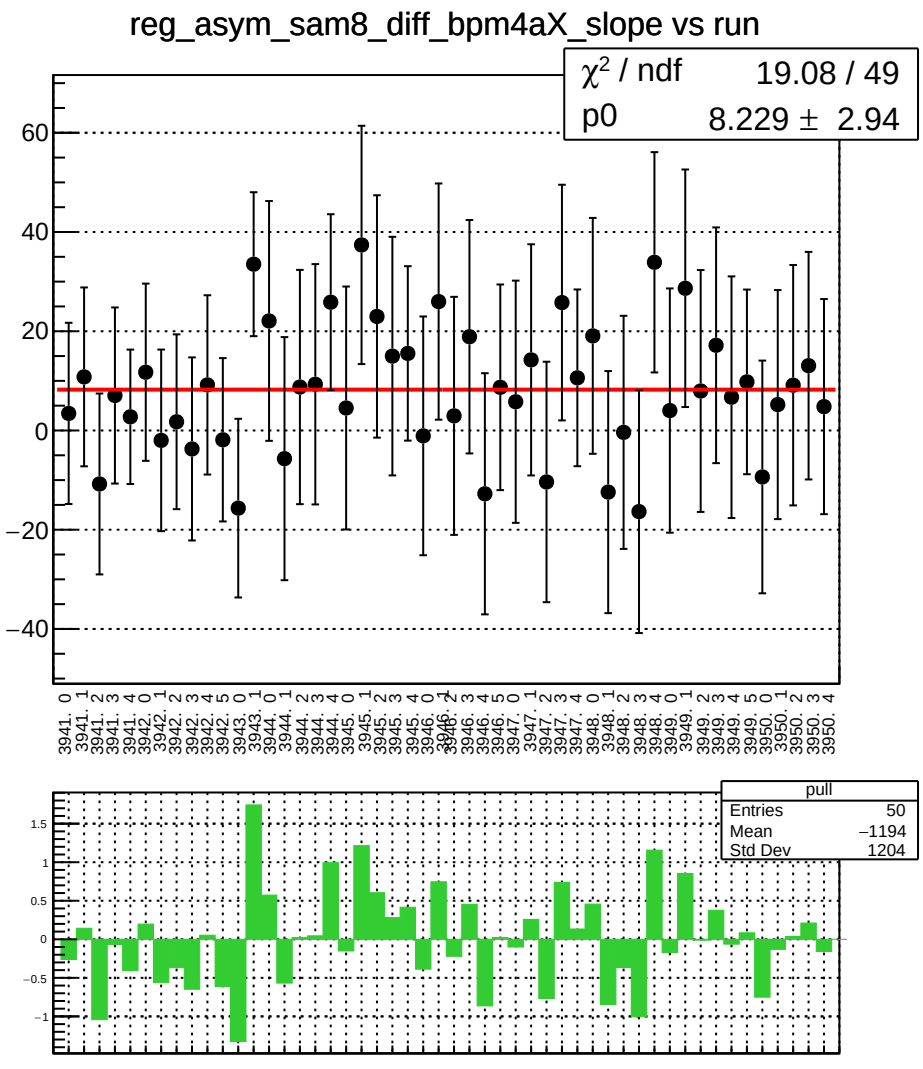

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 250.2 / 49
p0 186.7 ± 0.445
pull
Entries 50
Mean 101.3
Std Dev 78.22
pull1D
Entries 50
Mean −0.3127
Std Dev 2.215

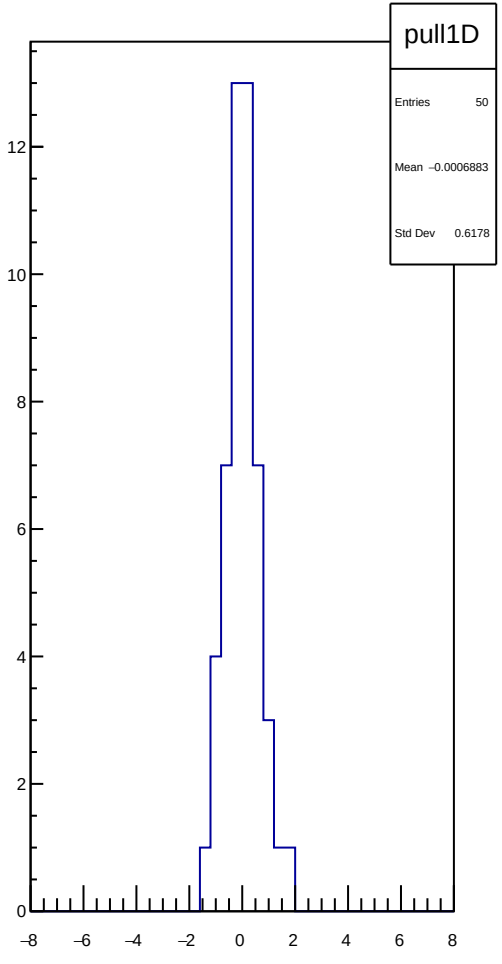

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.588 / 49
p0 −38.36 ± 3.306
pull
Entries 50
Mean 326.6
Std Dev 304.3

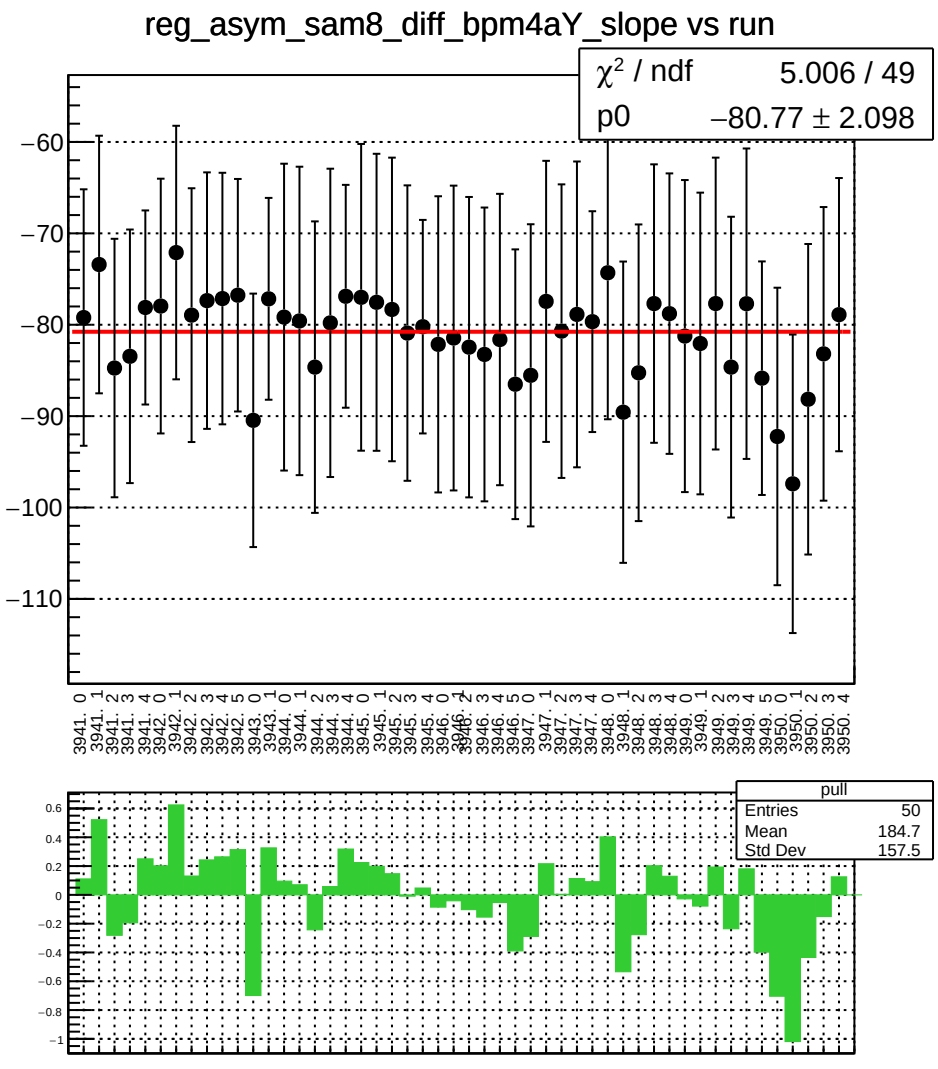

pull1D
Entries 50
Mean −0.003543
Std Dev 0.3029

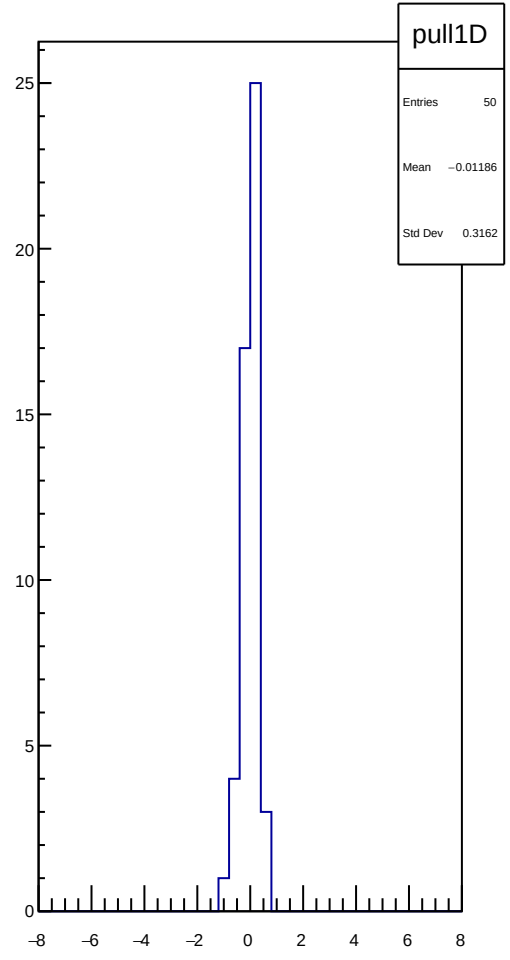

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 7.822 / 49
p0 −3.438 ± 0.5596
pull
Entries 50
Mean 305.7
Std Dev 281.8

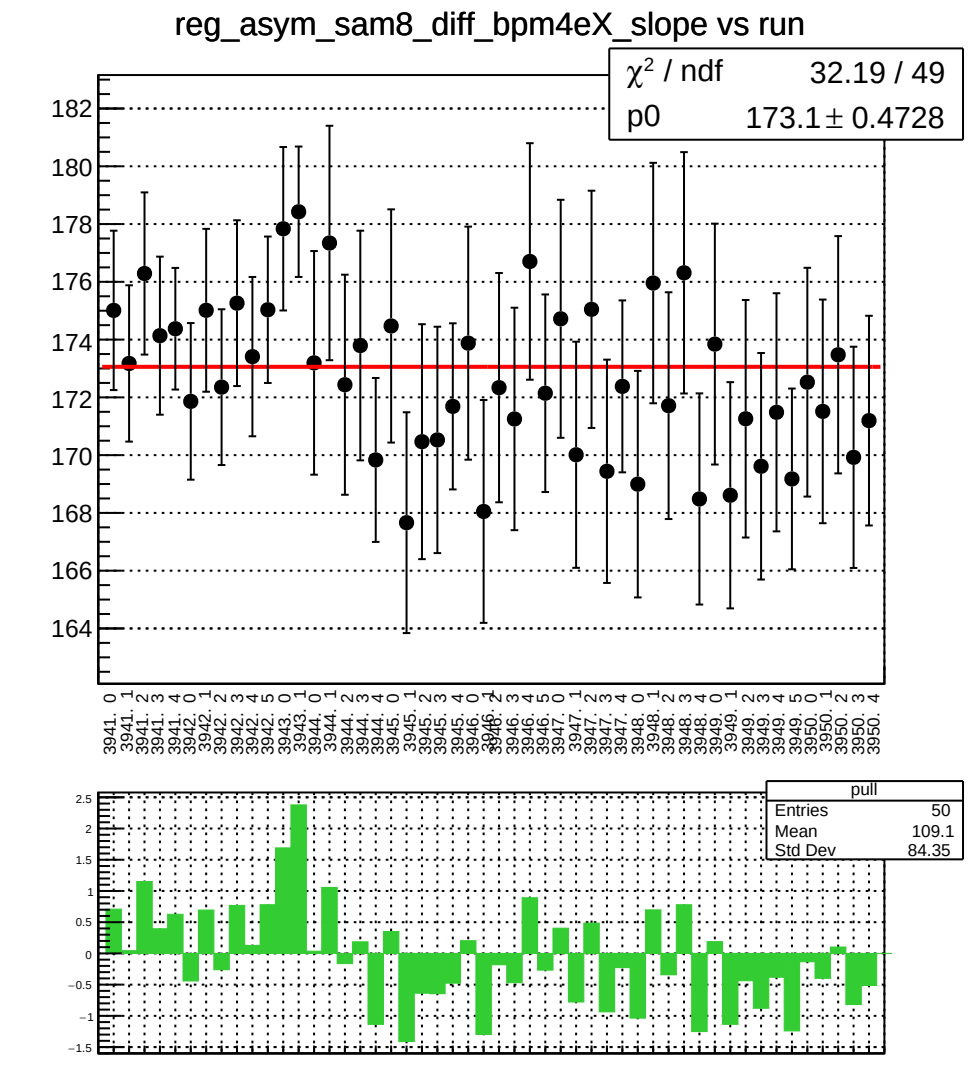

pull1D
Entries 50
Mean −0.01548
Std Dev 0.3952

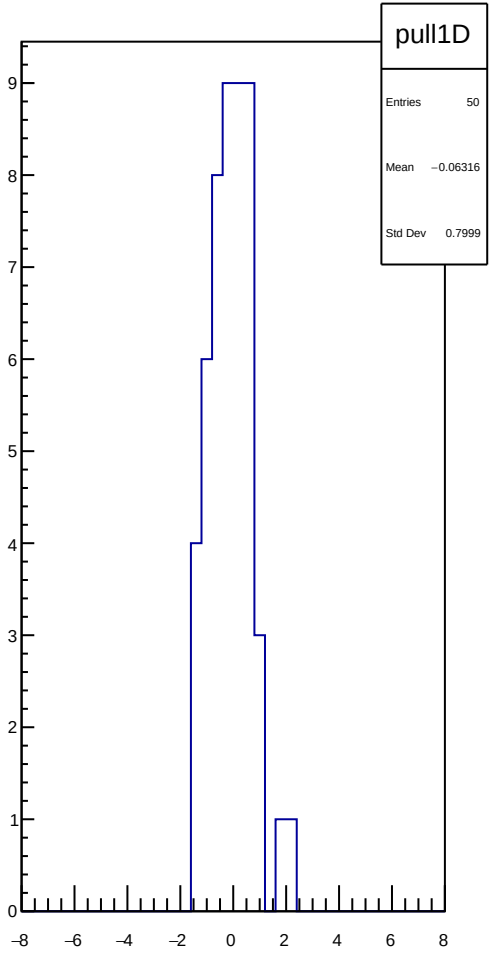

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 19.08 / 49
p0 8.229 ± 2.94
pull
Entries 50
Mean −1194
Std Dev 1204

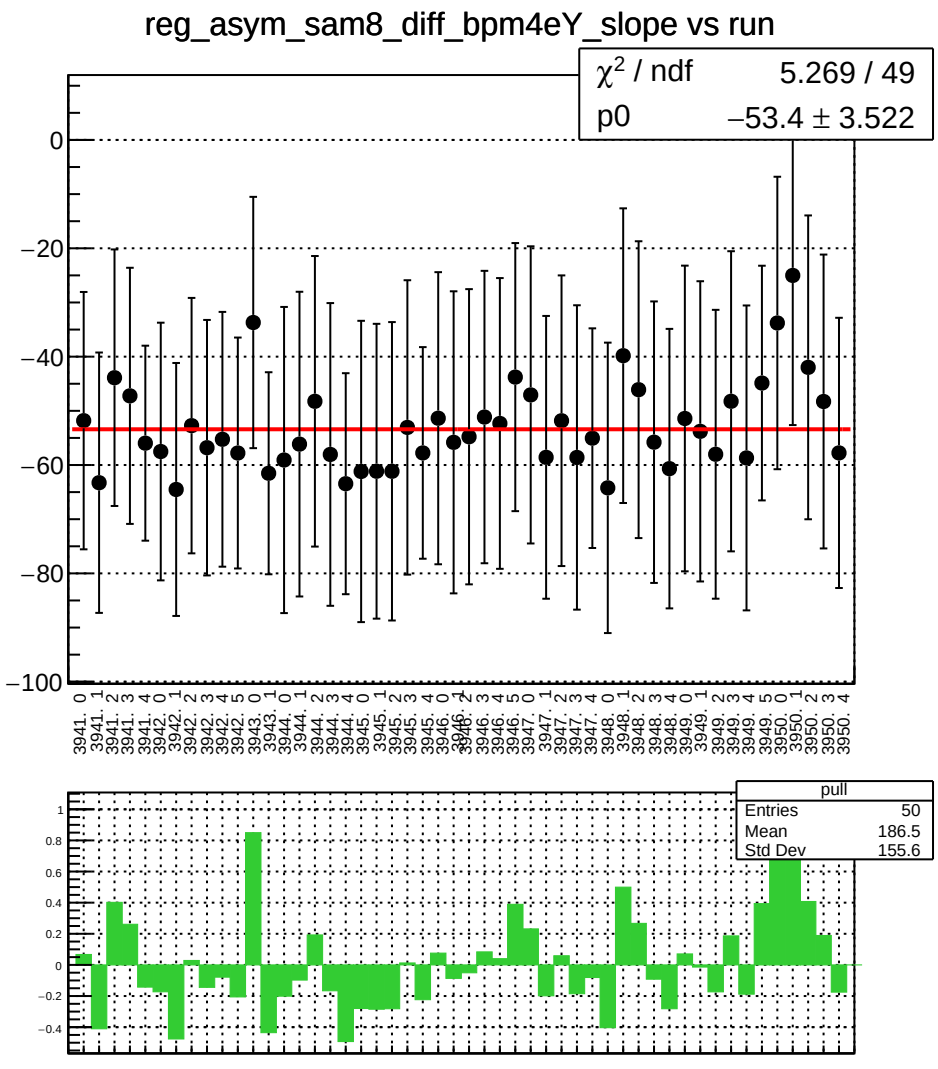

pull1D
Entries 50
Mean −0.0006883
Std Dev 0.6178

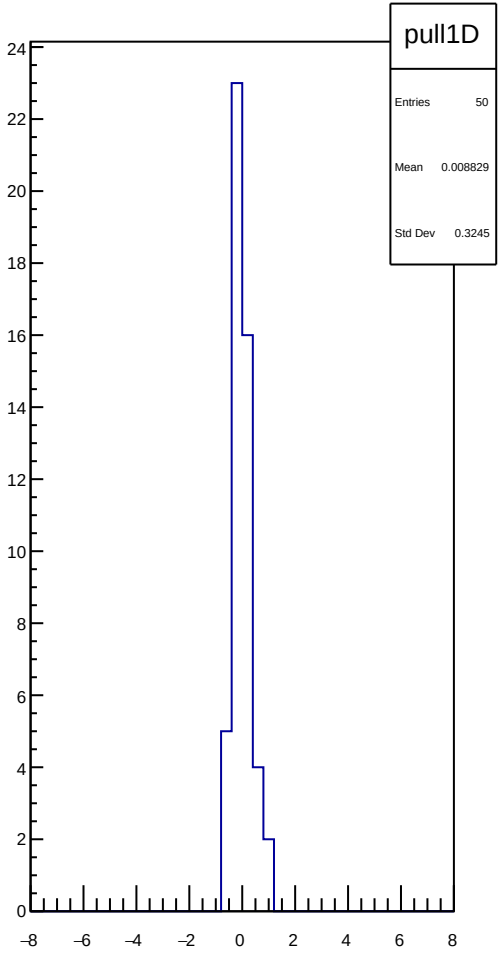

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 5.006 / 49
p0 −80.77 ± 2.098
pull
Entries 50
Mean 184.7
Std Dev 157.5

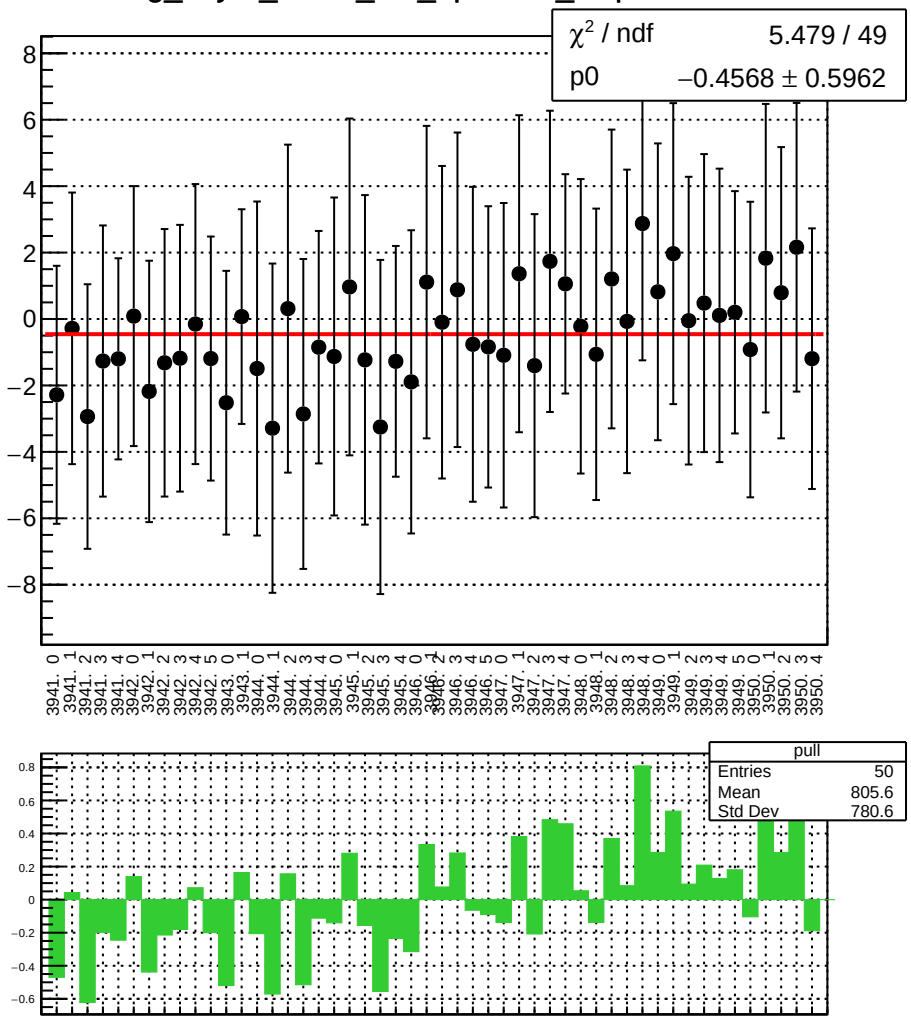

pull1D
Entries 50
Mean −0.01186
Std Dev 0.3162

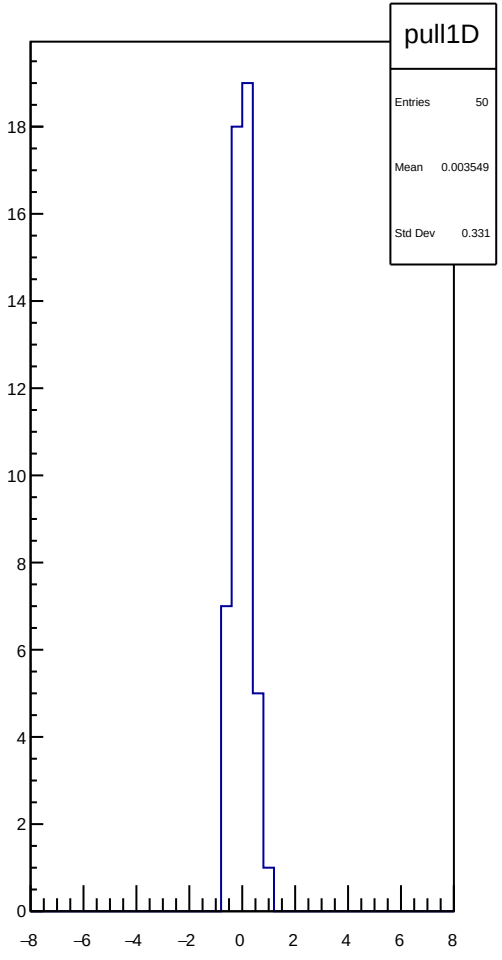

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 32.19 / 49
p0 173.1 ± 0.4728
pull
Entries 50
Mean 109.1
Std Dev 84.35

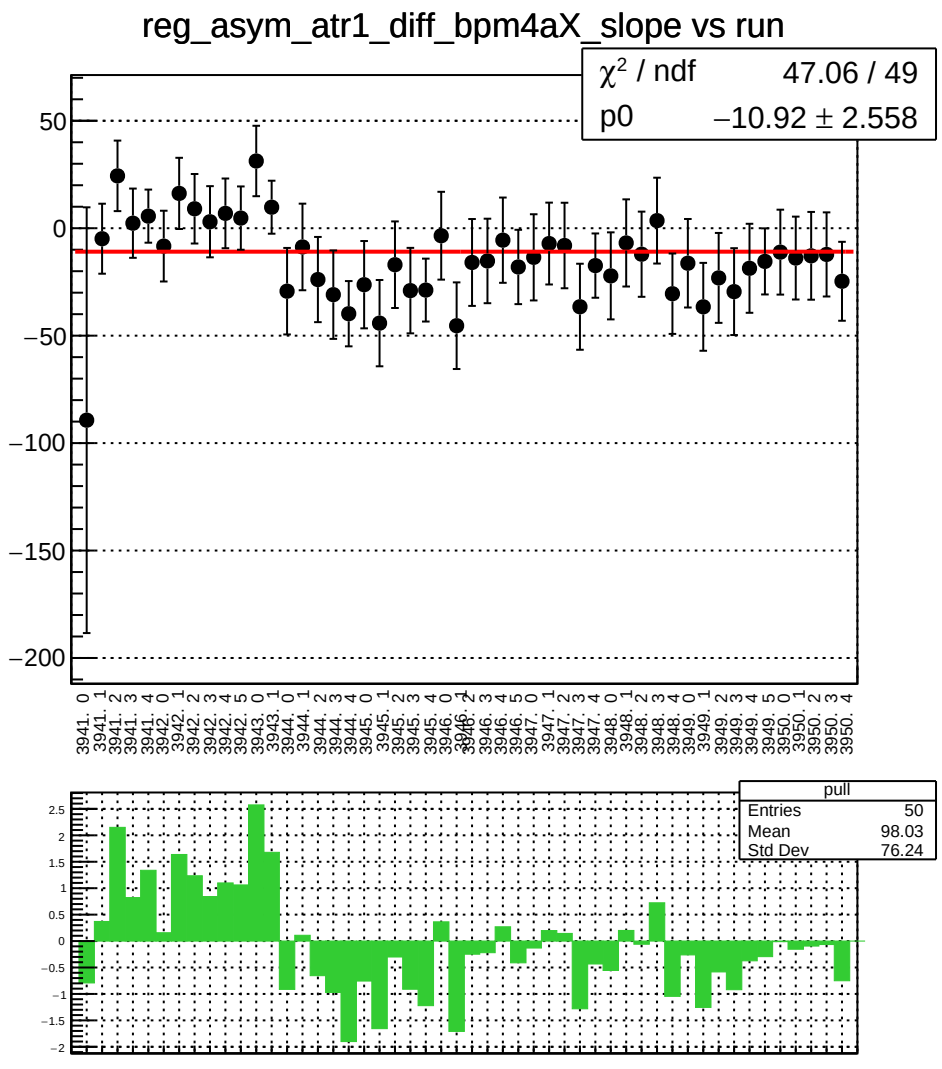

pull1D
Entries 50
Mean −0.06316
Std Dev 0.7999

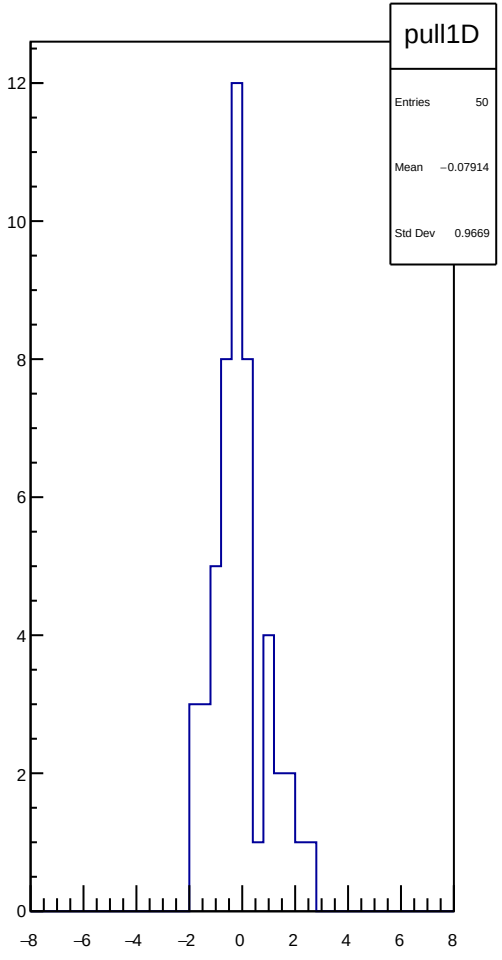

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 5.269 / 49
p0 −53.4 ± 3.522
pull
Entries 50
Mean 186.5
Std Dev 155.6

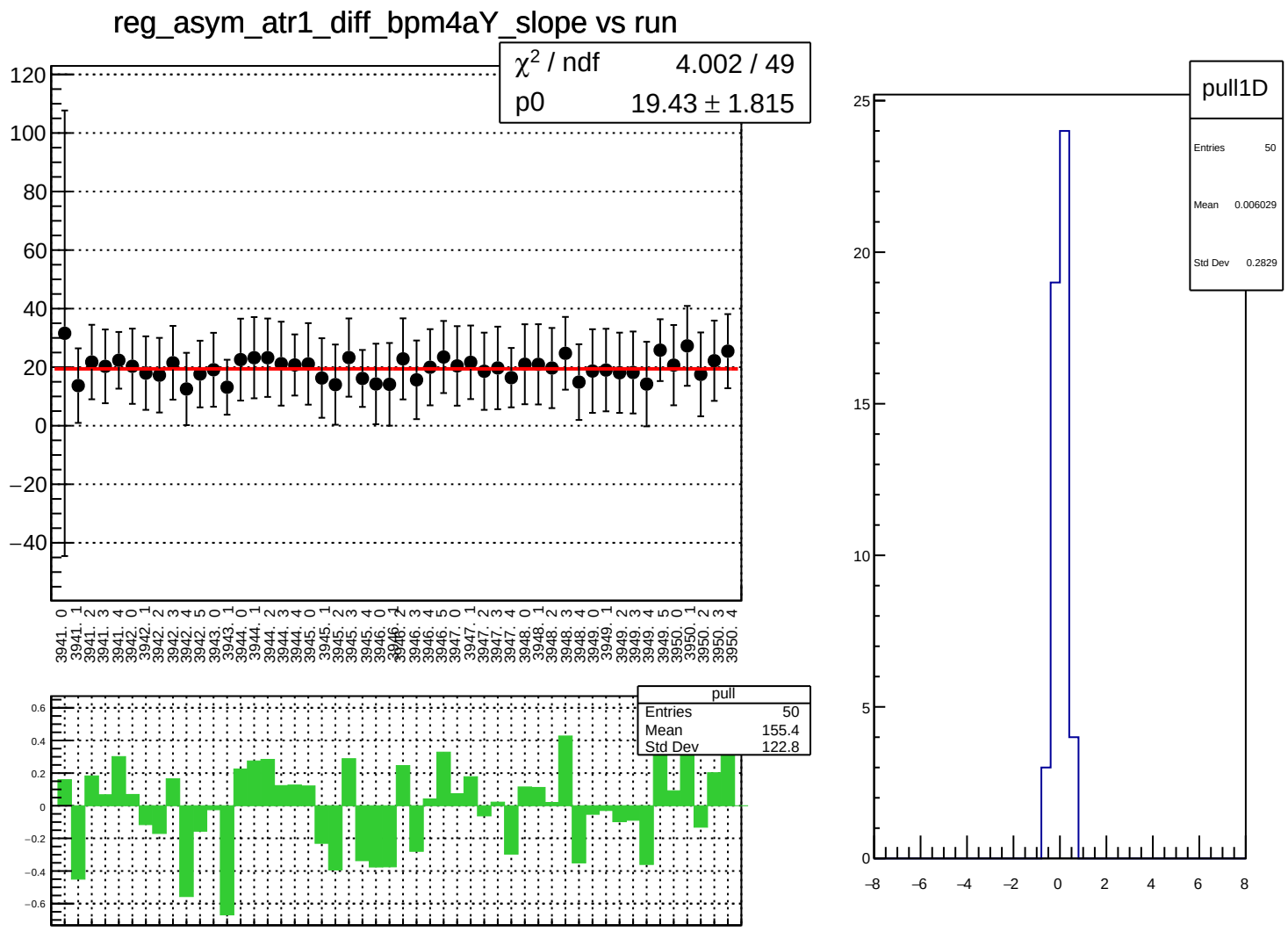

pull1D
Entries 50
Mean 0.008829
Std Dev 0.3245

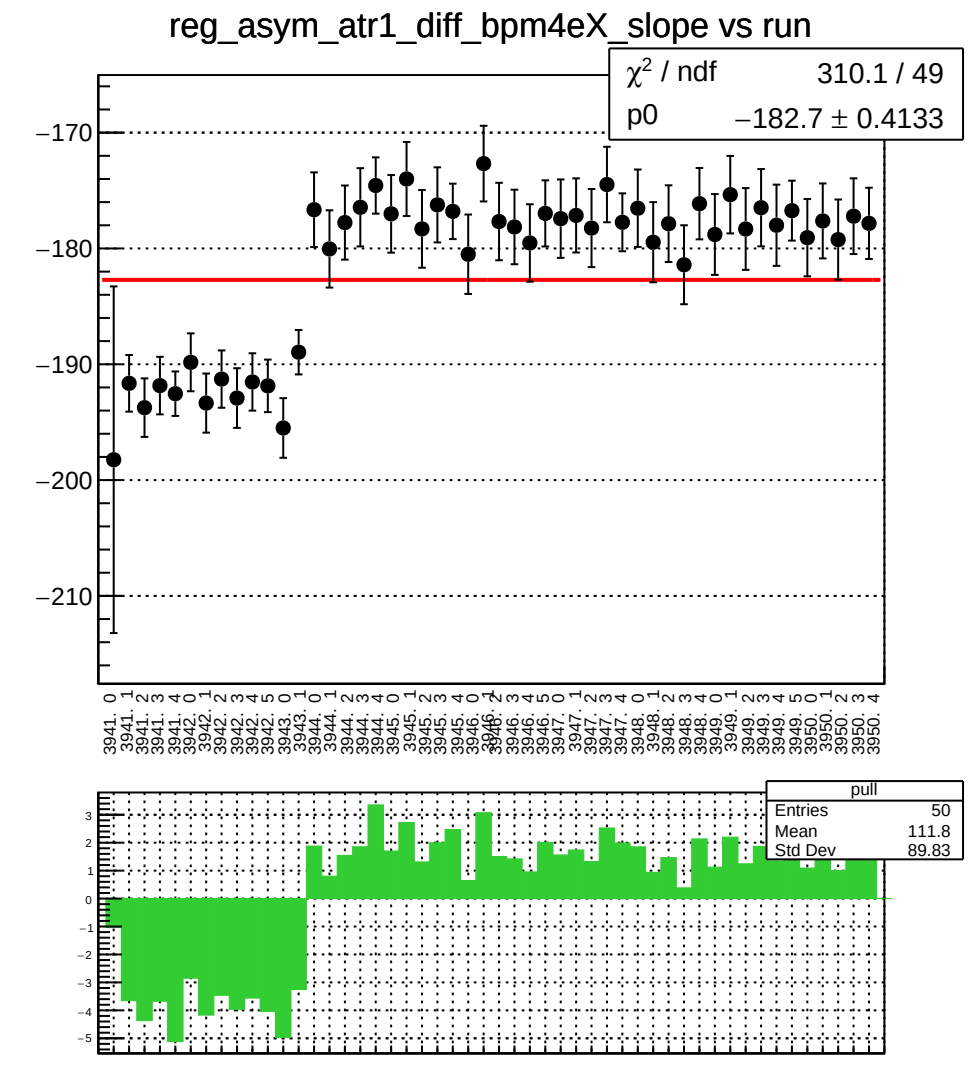

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 5.479 / 49
p0 −0.4568 ± 0.5962
pull
Entries 50
Mean 805.6
Std Dev 780.6

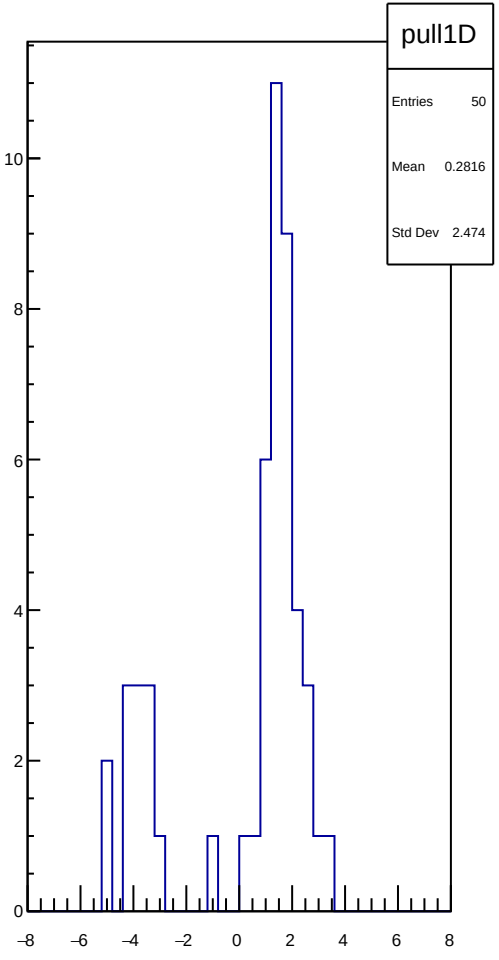

pull1D
Entries 50
Mean 0.003549
Std Dev 0.331

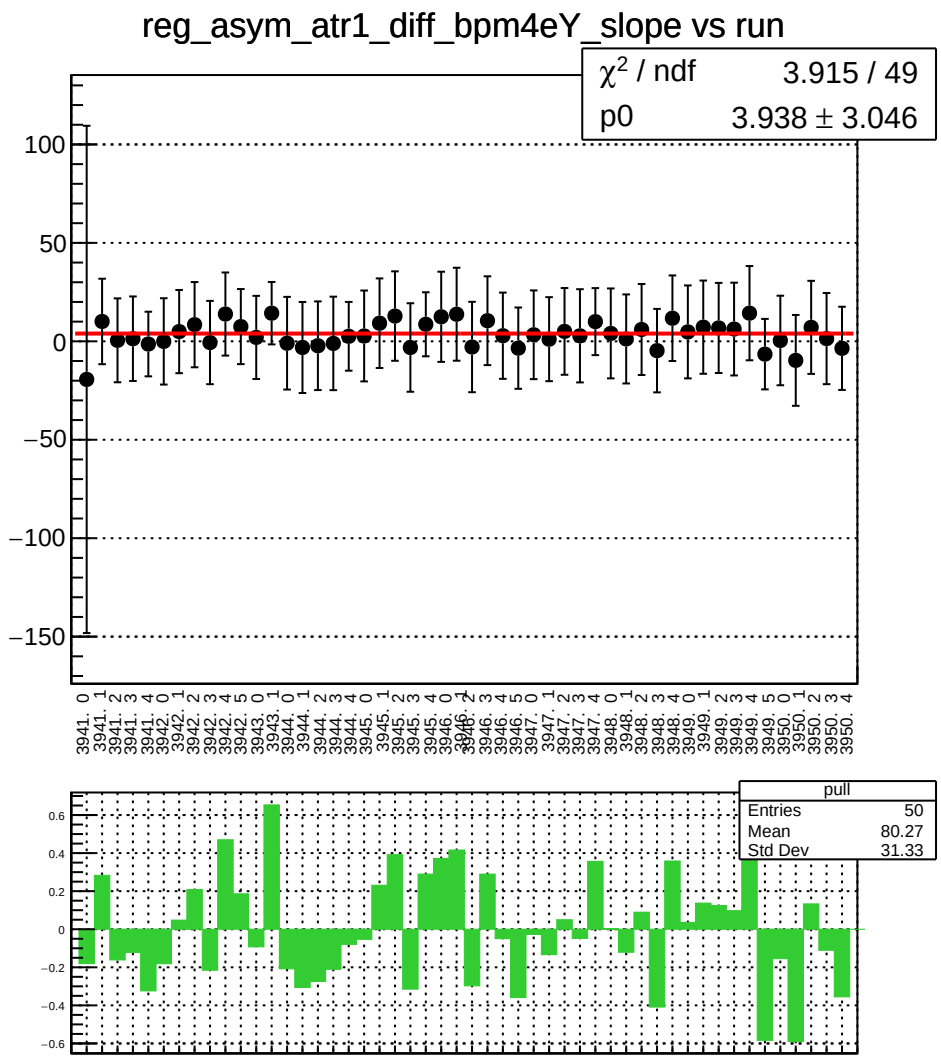

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 47.06 / 49
p0 −10.92 ± 2.558
pull
Entries 50
Mean 98.03
Std Dev 76.24

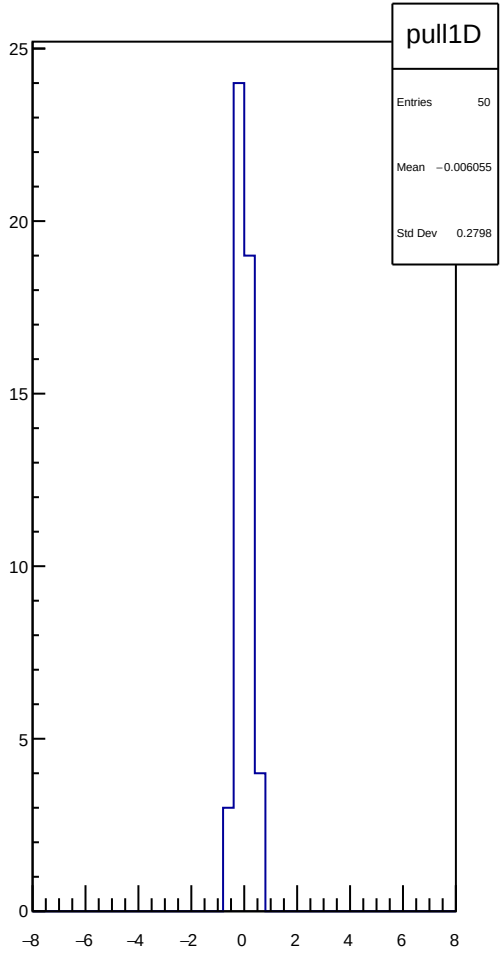

pull1D
Entries 50
Mean −0.07914
Std Dev 0.9669

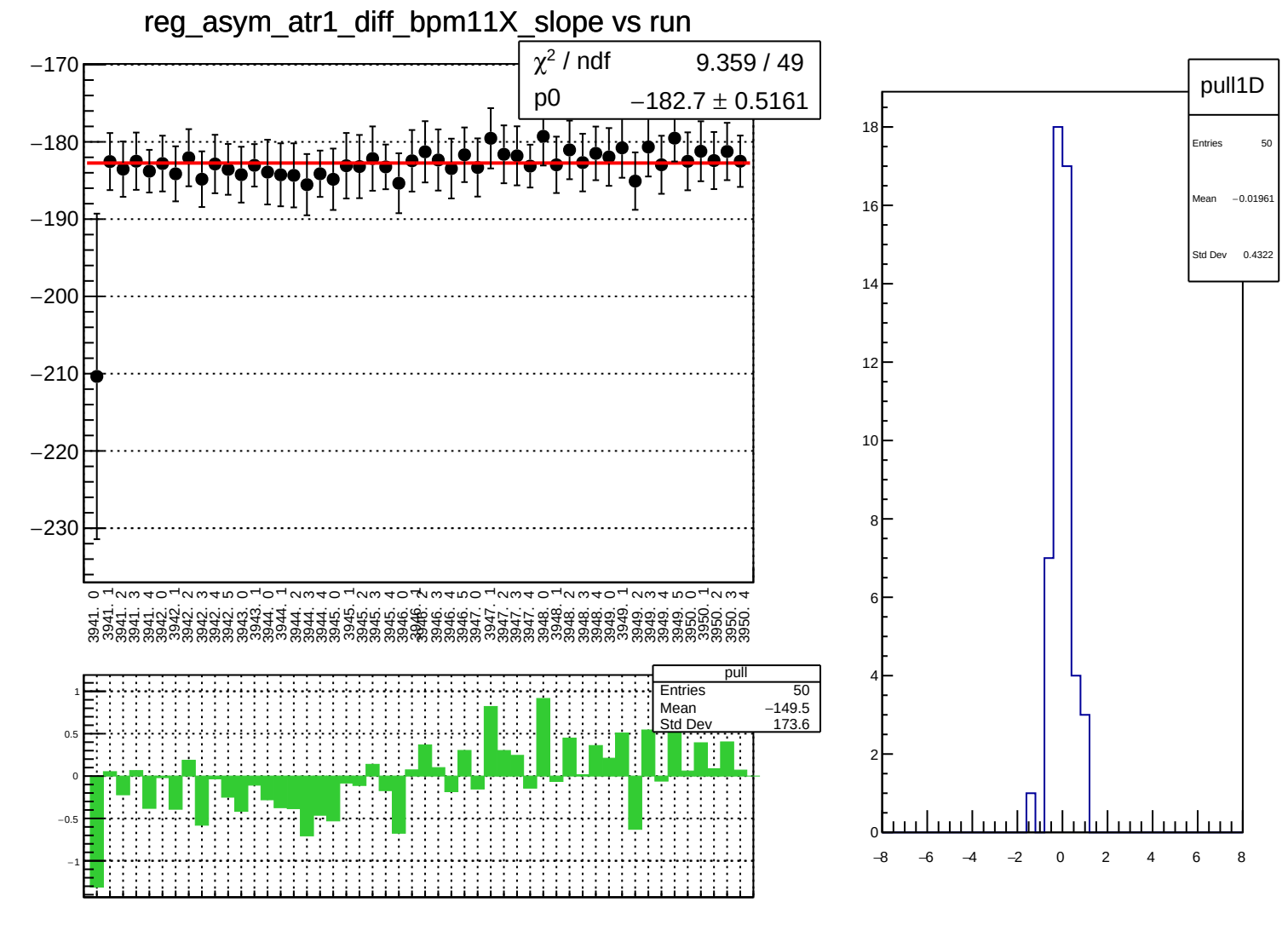

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 4.002 / 49
p0 19.43 ± 1.815
pull
Entries 50
Mean 155.4
Std Dev 122.8
pull1D
Entries 50
Mean 0.006029
Std Dev 0.2829

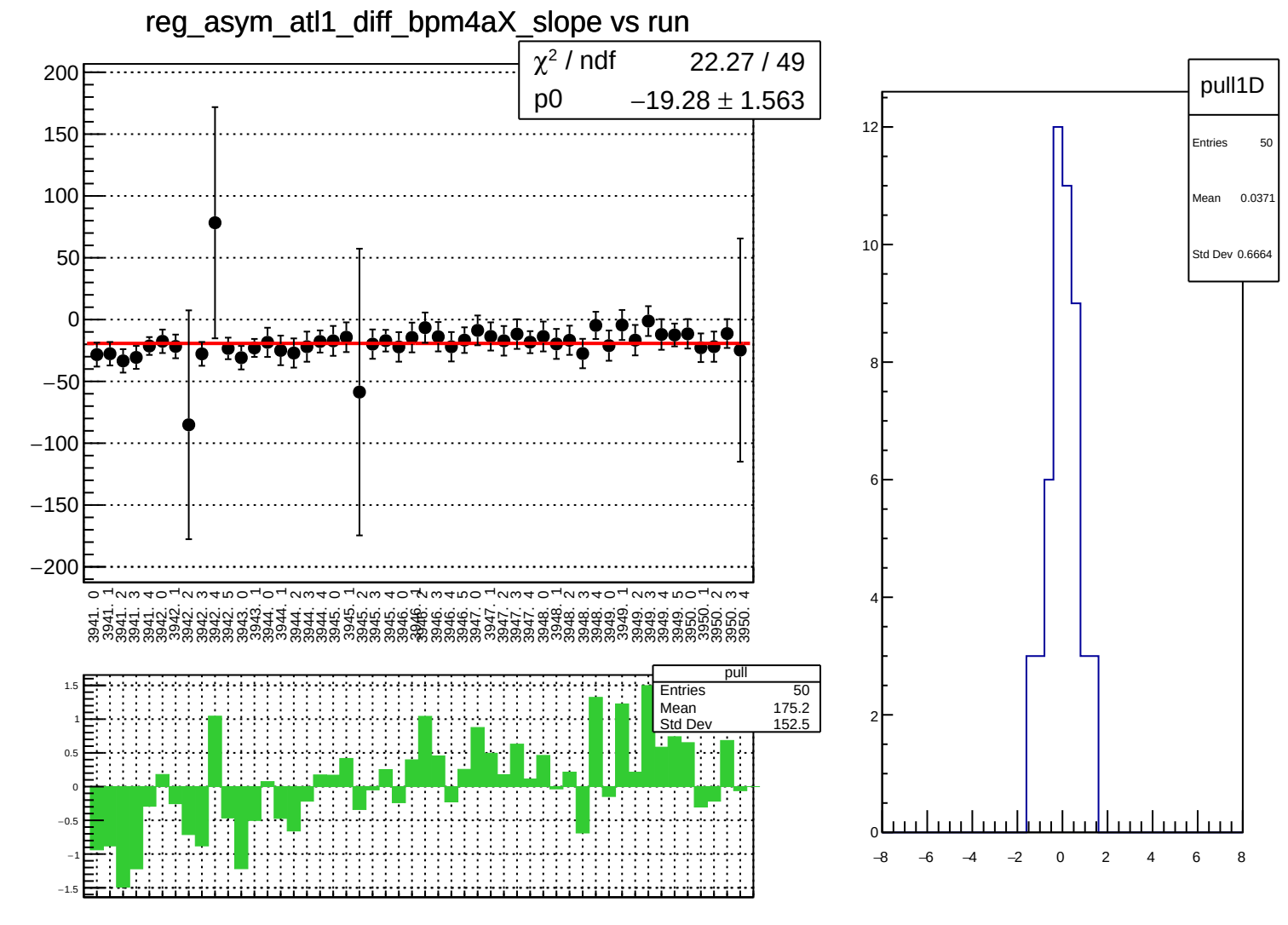

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 310.1 / 49
p0 −182.7 ± 0.4133
−170
−180
−190
−200
−210
pull
Entries 50
Mean 111.8
Std Dev 89.83

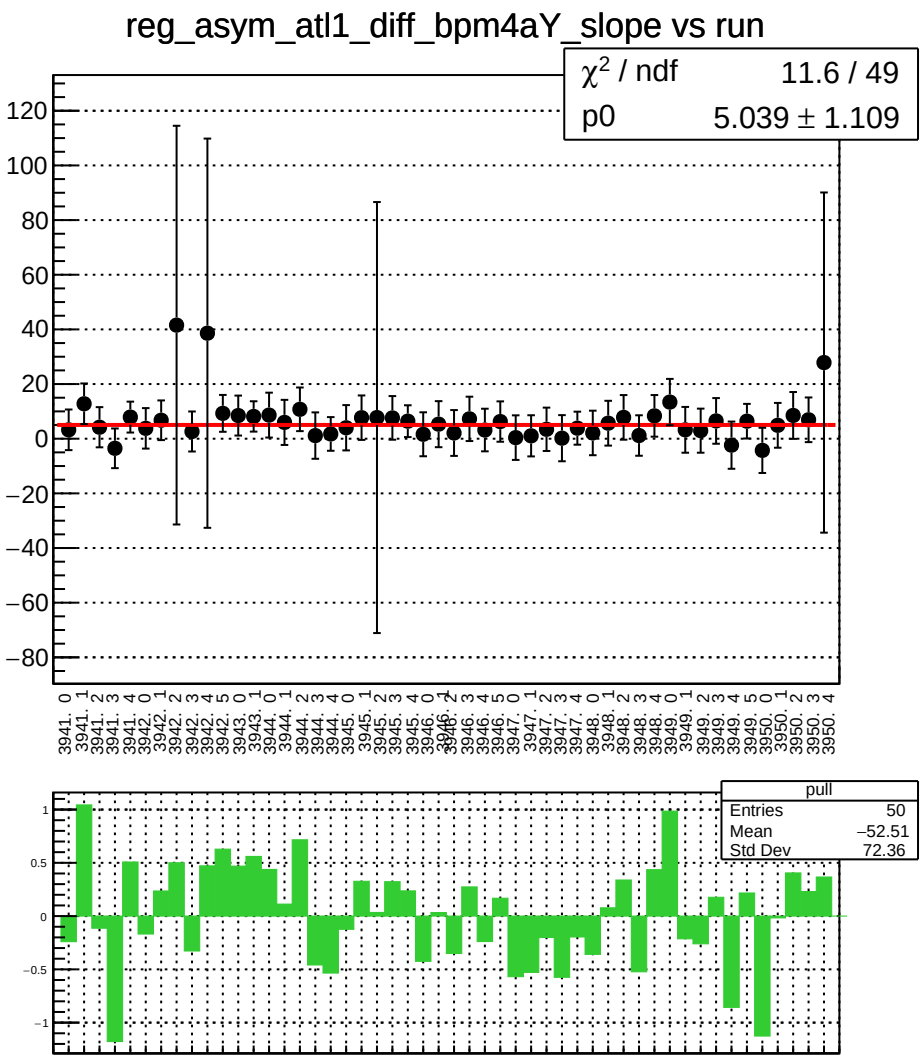

pull1D
Entries 50
Mean 0.2816
Std Dev 2.474

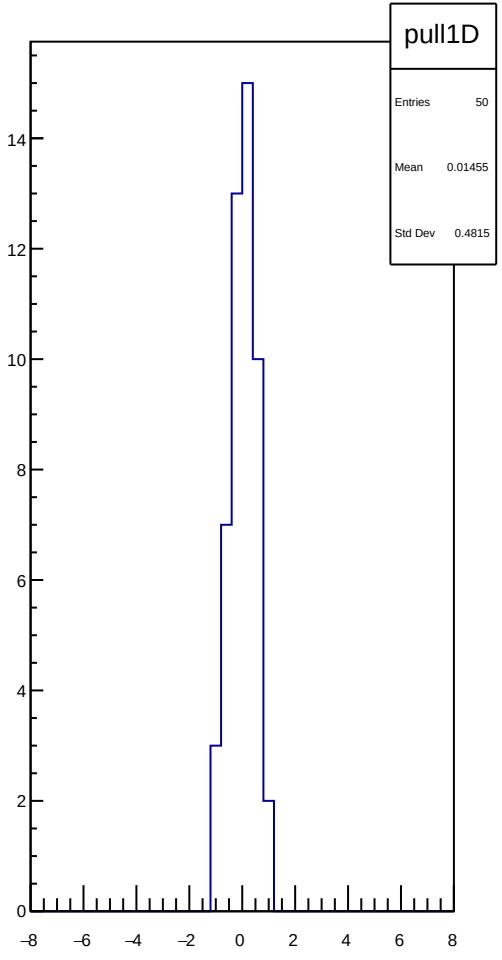

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 3.915 / 49
p0 3.938 ± 3.046
pull
Entries 50
Mean 80.27
Std Dev 31.33

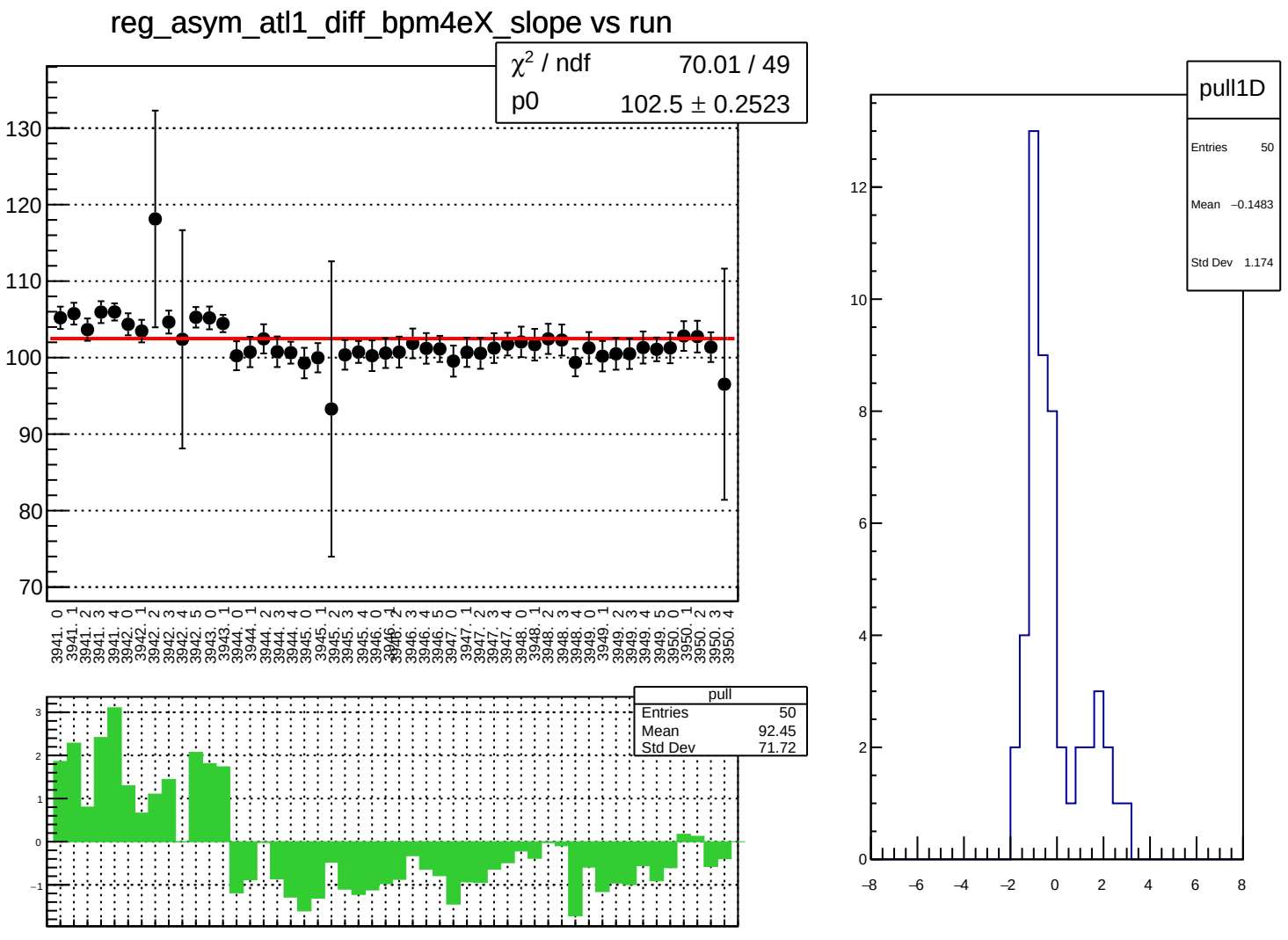

pull1D
Entries 50
Mean −0.006055
Std Dev 0.2798

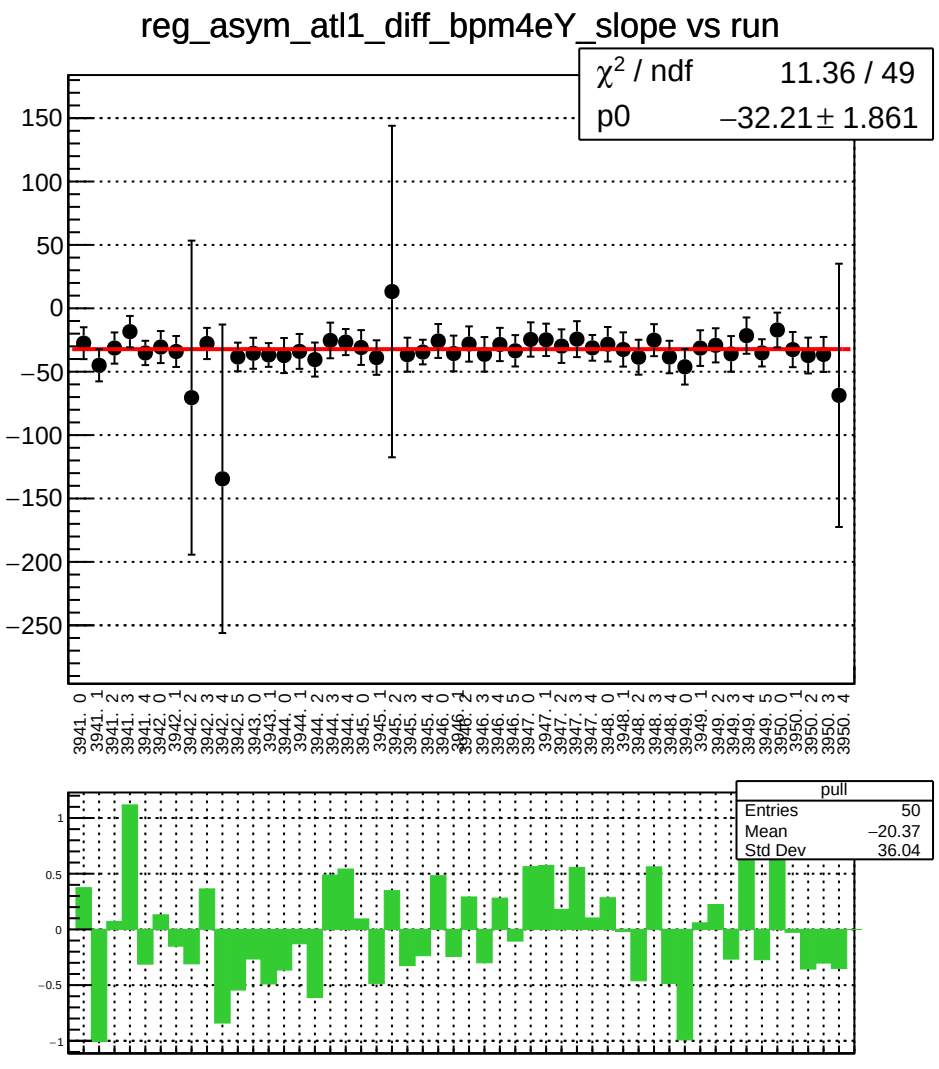

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 9.359 / 49
p0 −182.7 ± 0.5161
pull
Entries 50
Mean −149.5
Std Dev 173.6
pull1D
Entries 50
Mean −0.01961
Std Dev 0.4322

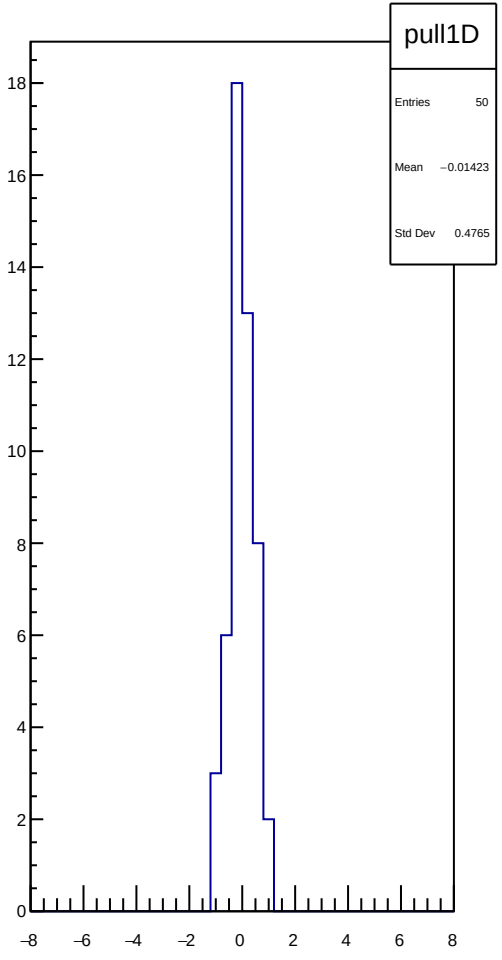

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 22.27 / 49
p0 −19.28 ± 1.563
pull
Entries 50
Mean 175.2
Std Dev 152.5
pull1D
Entries 50
Mean 0.0371
Std Dev 0.6664

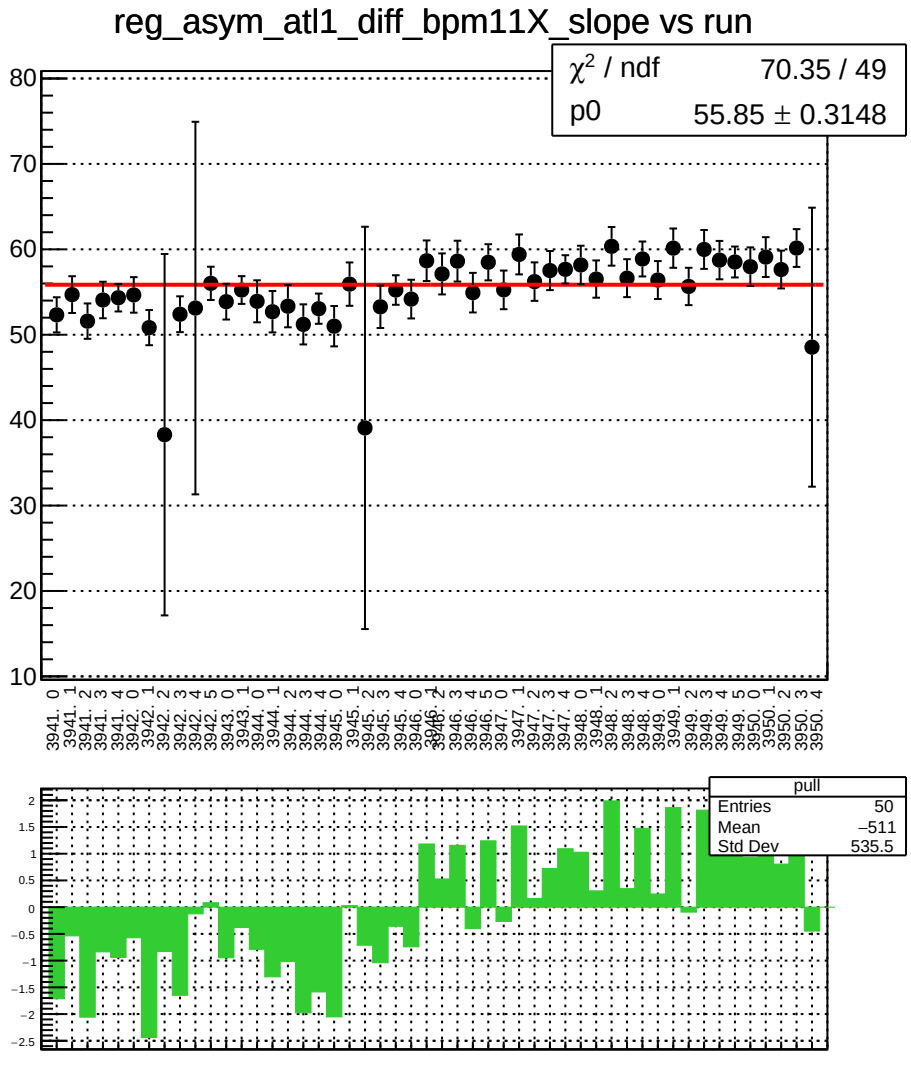

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 11.6 / 49
p0 5.039 ± 1.109
pull
Entries 50
Mean −52.51
Std Dev 72.36

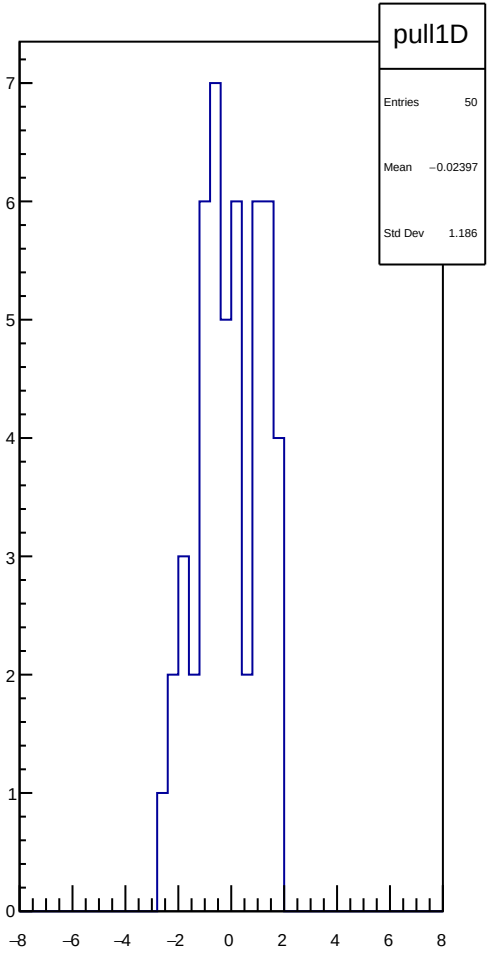

pull1D
Entries 50
Mean 0.01455
Std Dev 0.4815

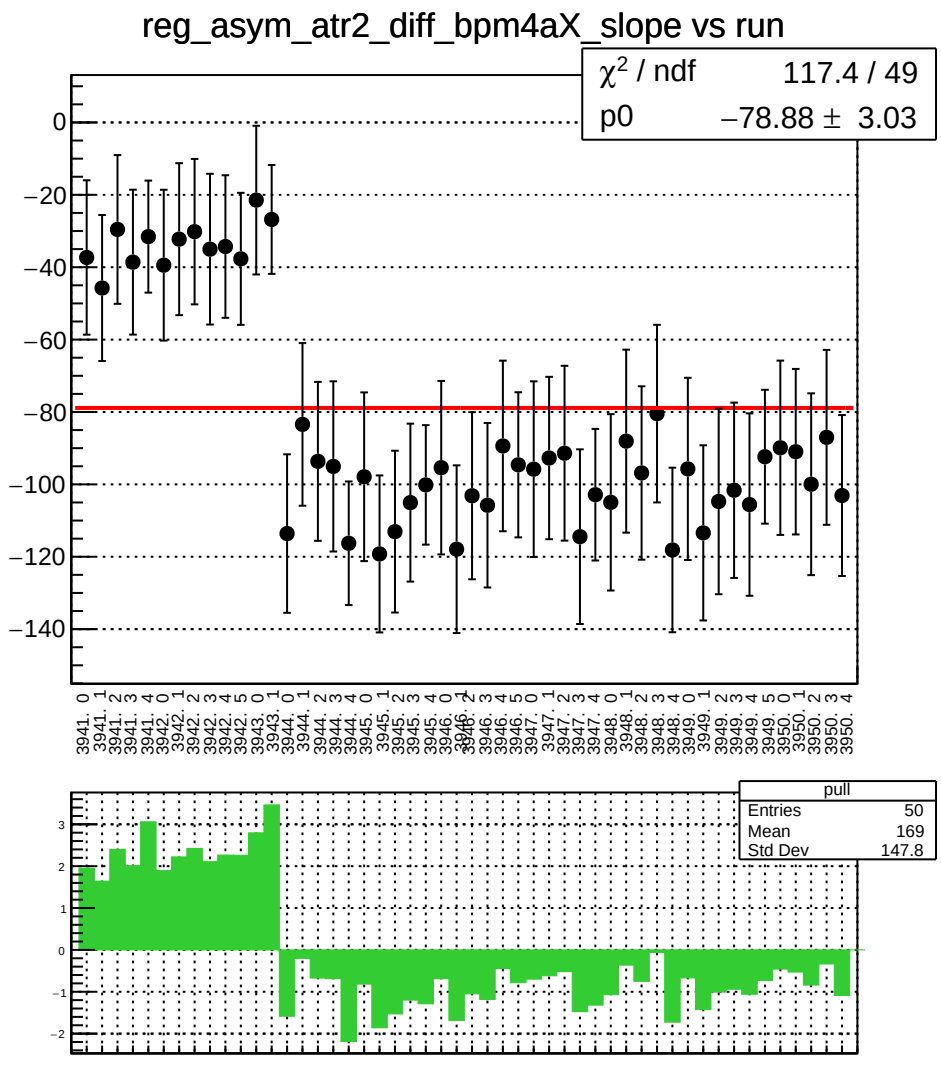

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 70.01 / 49
p0 102.5 ± 0.2523
pull
Entries 50
Mean 92.45
Std Dev 71.72
pull1D
Entries 50
Mean −0.1483
Std Dev 1.174

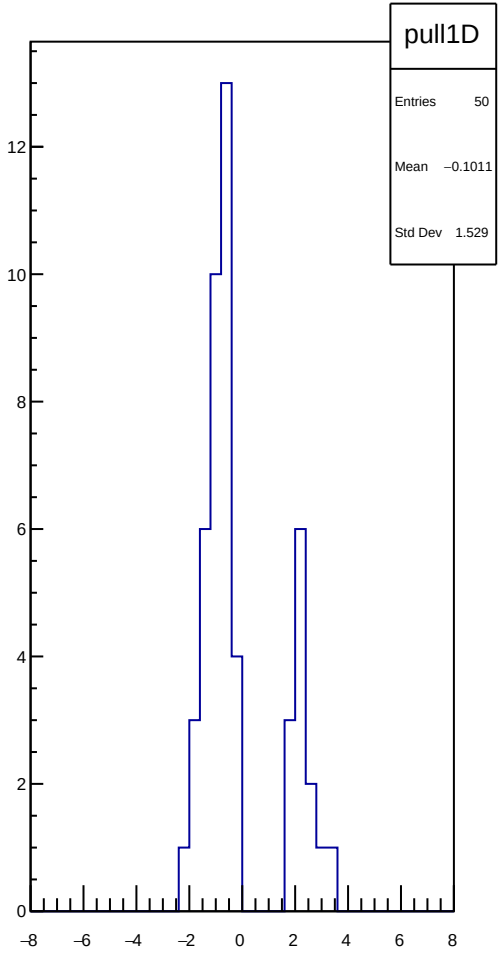

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 11.36 / 49
p0 −32.21 ± 1.861
pull
Entries 50
Mean −20.37
Std Dev 36.04

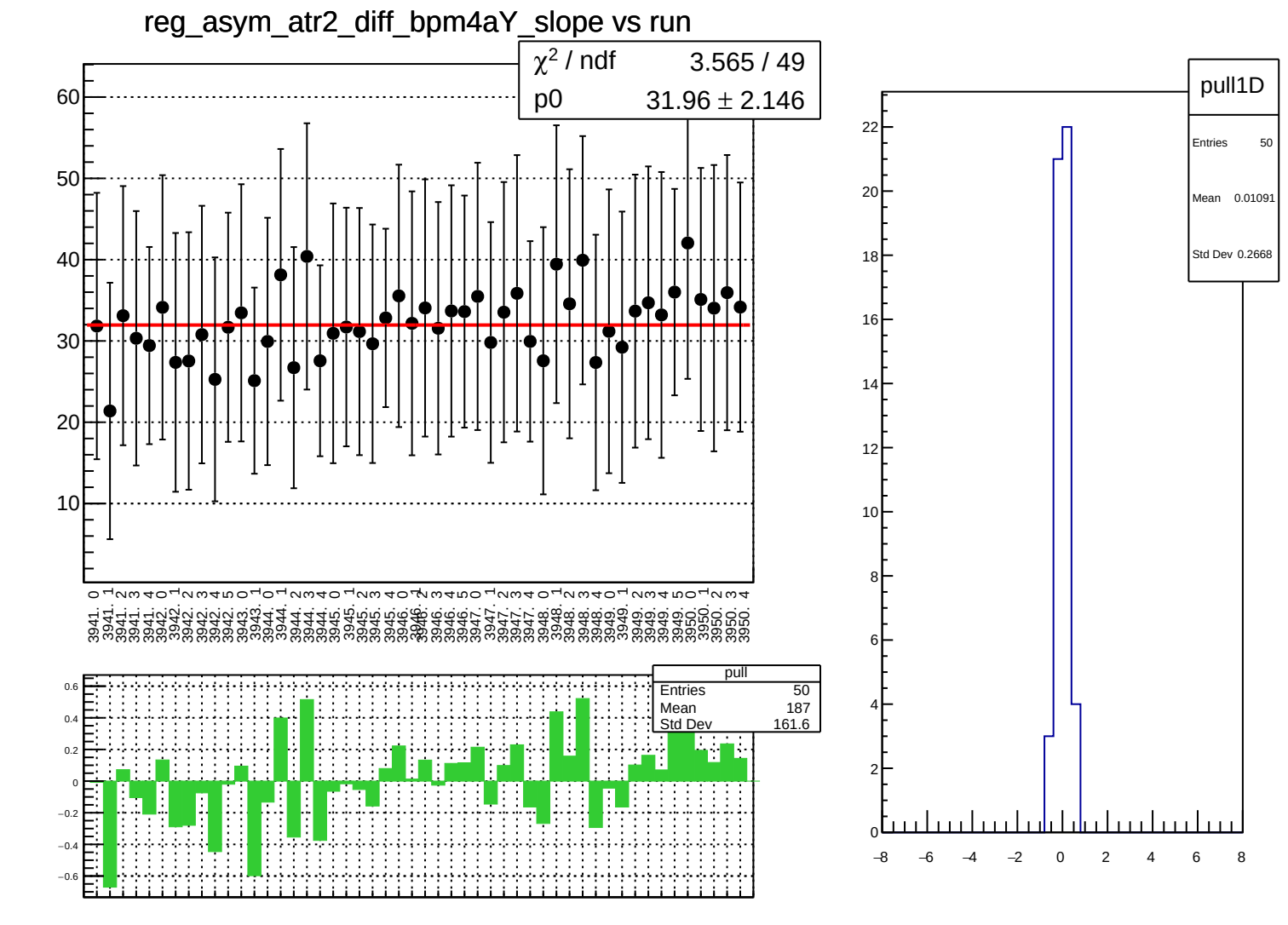

pull1D
Entries 50
Mean −0.01423
Std Dev 0.4765

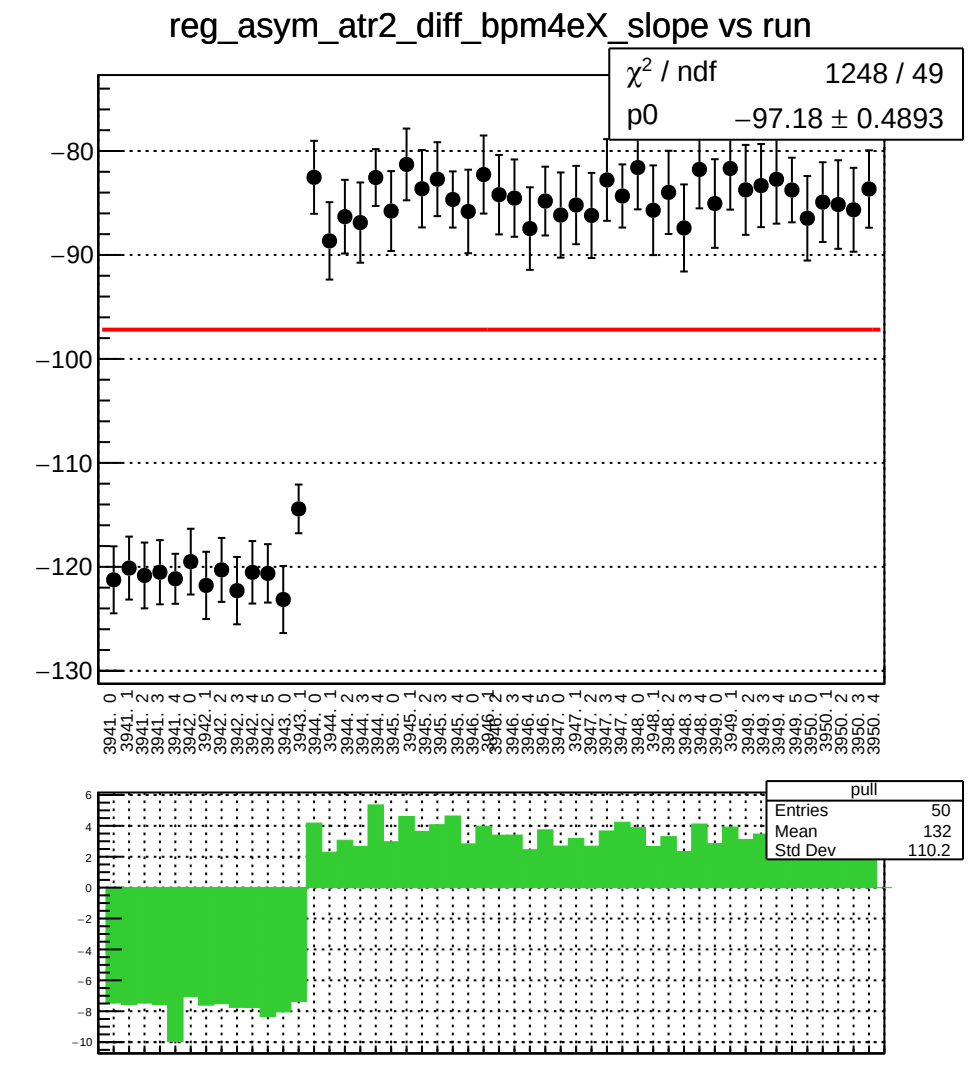

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 70.35 / 49
p0 55.85 ± 0.3148
pull
Entries 50
Mean −511
Std Dev 535.5

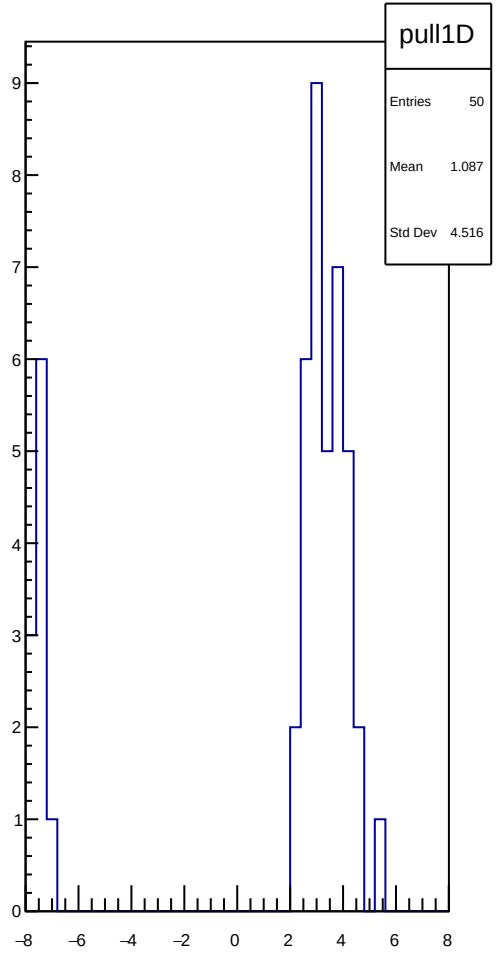

pull1D
Entries 50
Mean −0.02397
Std Dev 1.186

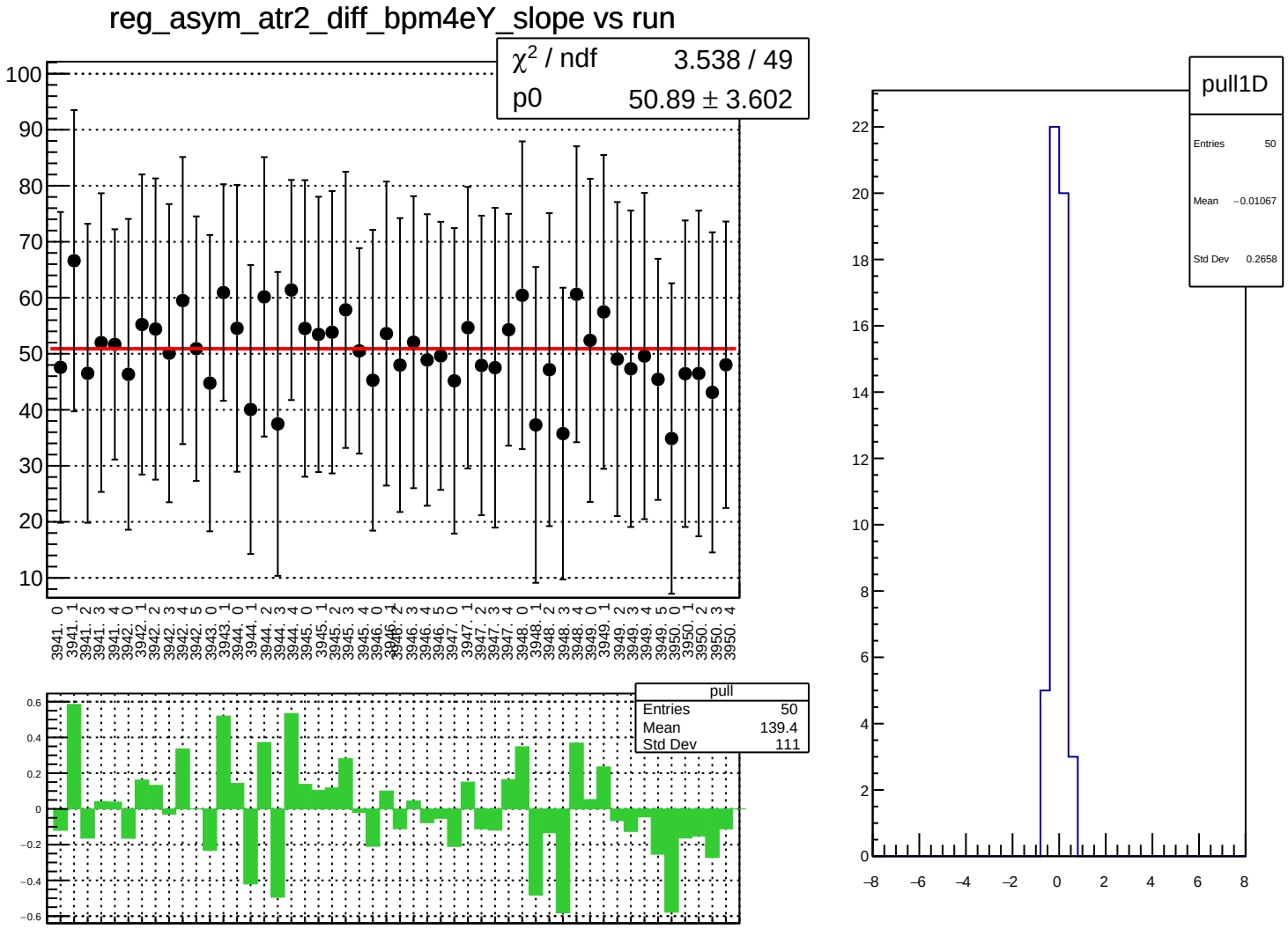

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 117.4 / 49
p0 −78.88 ± 3.03
pull
Entries 50
Mean 169
Std Dev 147.8

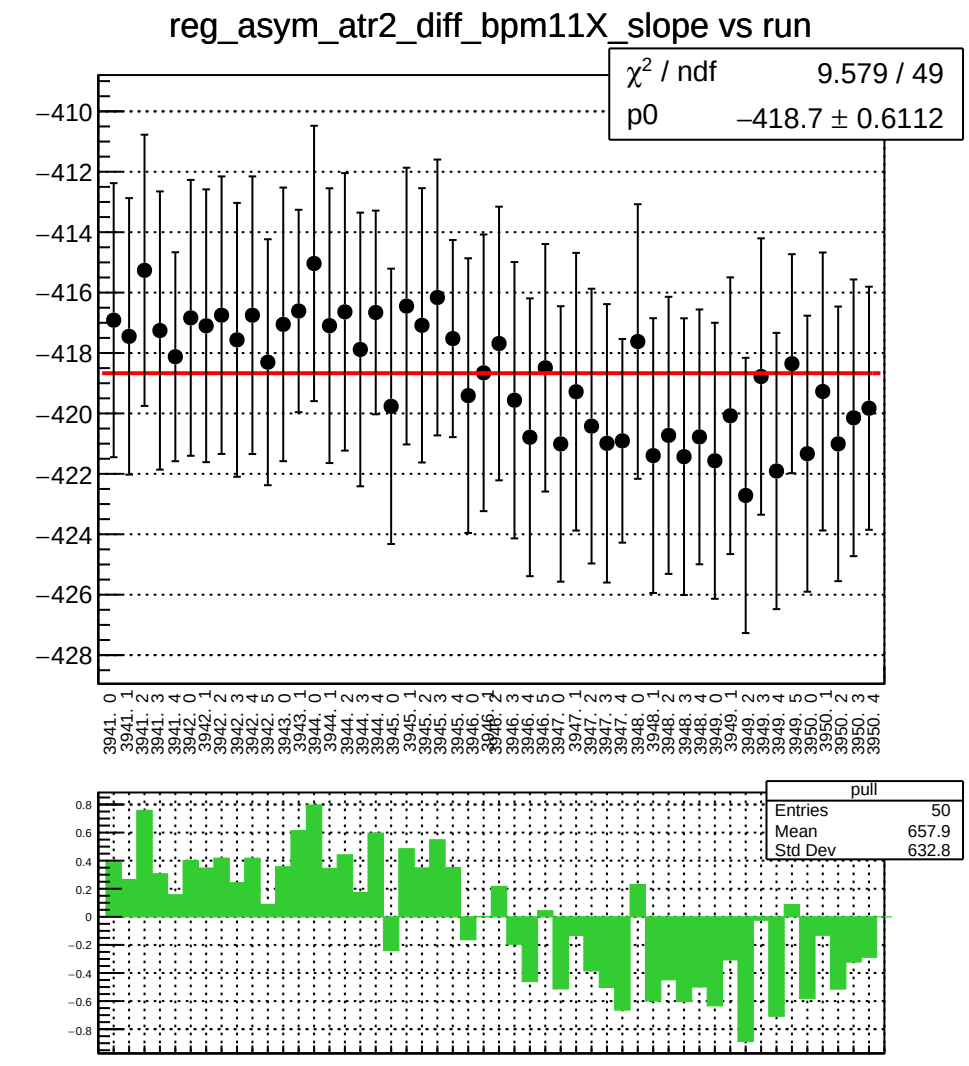

pull1D
Entries 50
Mean −0.1011
Std Dev 1.529

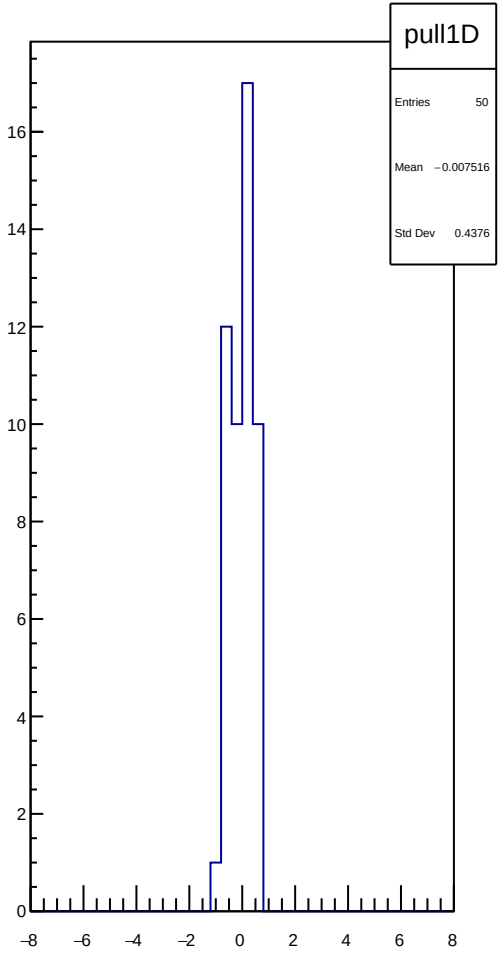

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.565 / 49
p0 31.96 ± 2.146
pull
Entries 50
Mean 187
Std Dev 161.6
pull1D
Entries 50
Mean 0.01091
Std Dev 0.2668

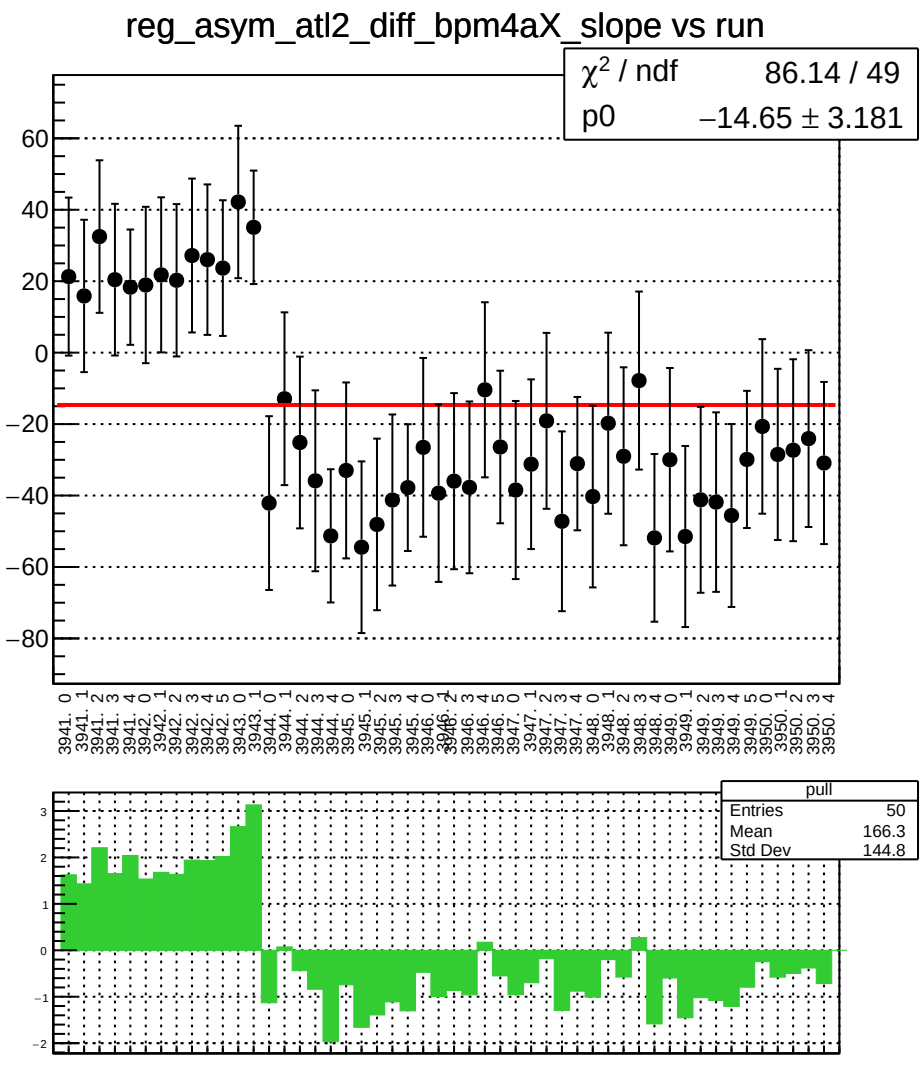

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 1248 / 49
p0 −97.18 ± 0.4893
pull
Entries 50
Mean 132
Std Dev 110.2

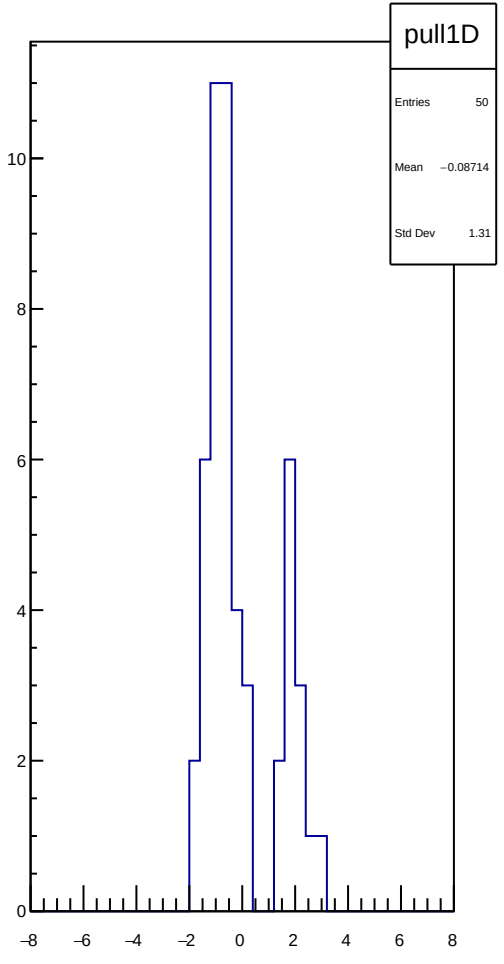

pull1D
Entries 50
Mean 1.087
Std Dev 4.516

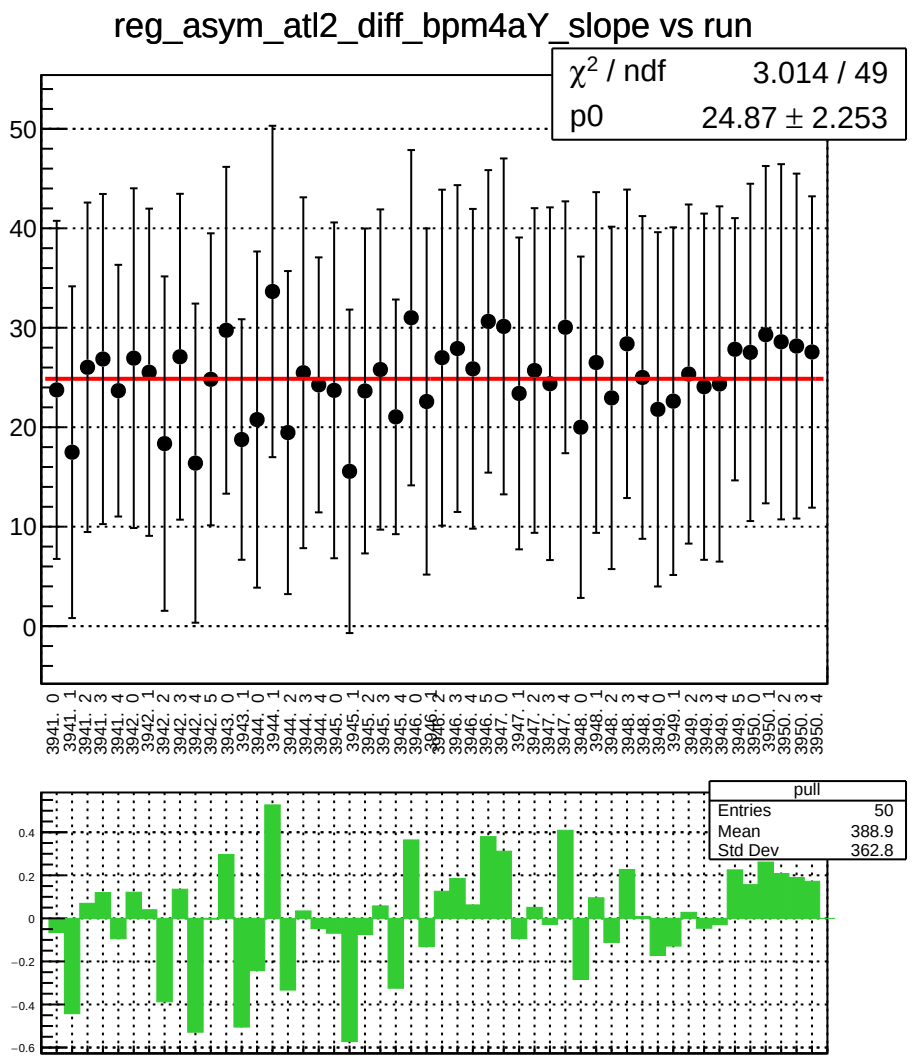

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.538 / 49
p0 50.89 ± 3.602
pull
Entries 50
Mean 139.4
Std Dev 111
pull1D
Entries 50
Mean −0.01067
Std Dev 0.2658

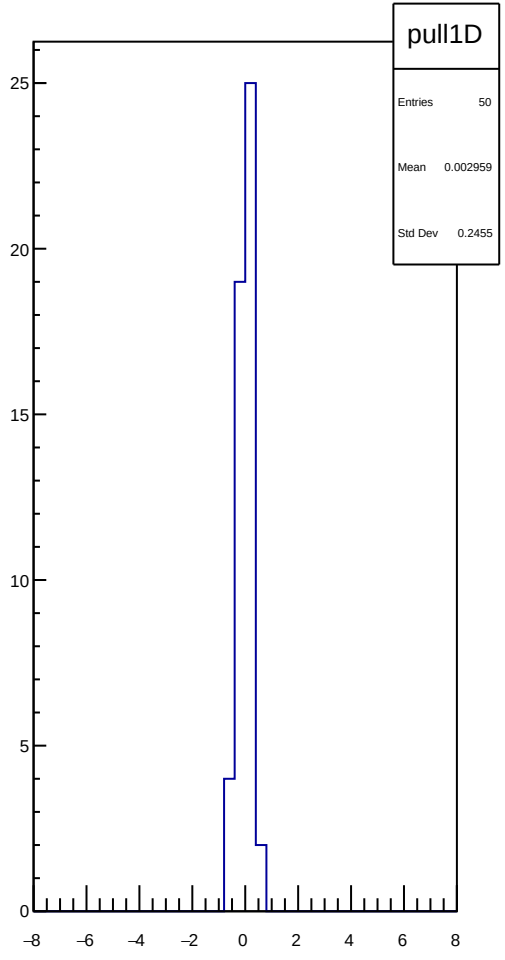

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 9.579 / 49
p0 −418.7 ± 0.6112
pull
Entries 50
Mean 657.9
Std Dev 632.8

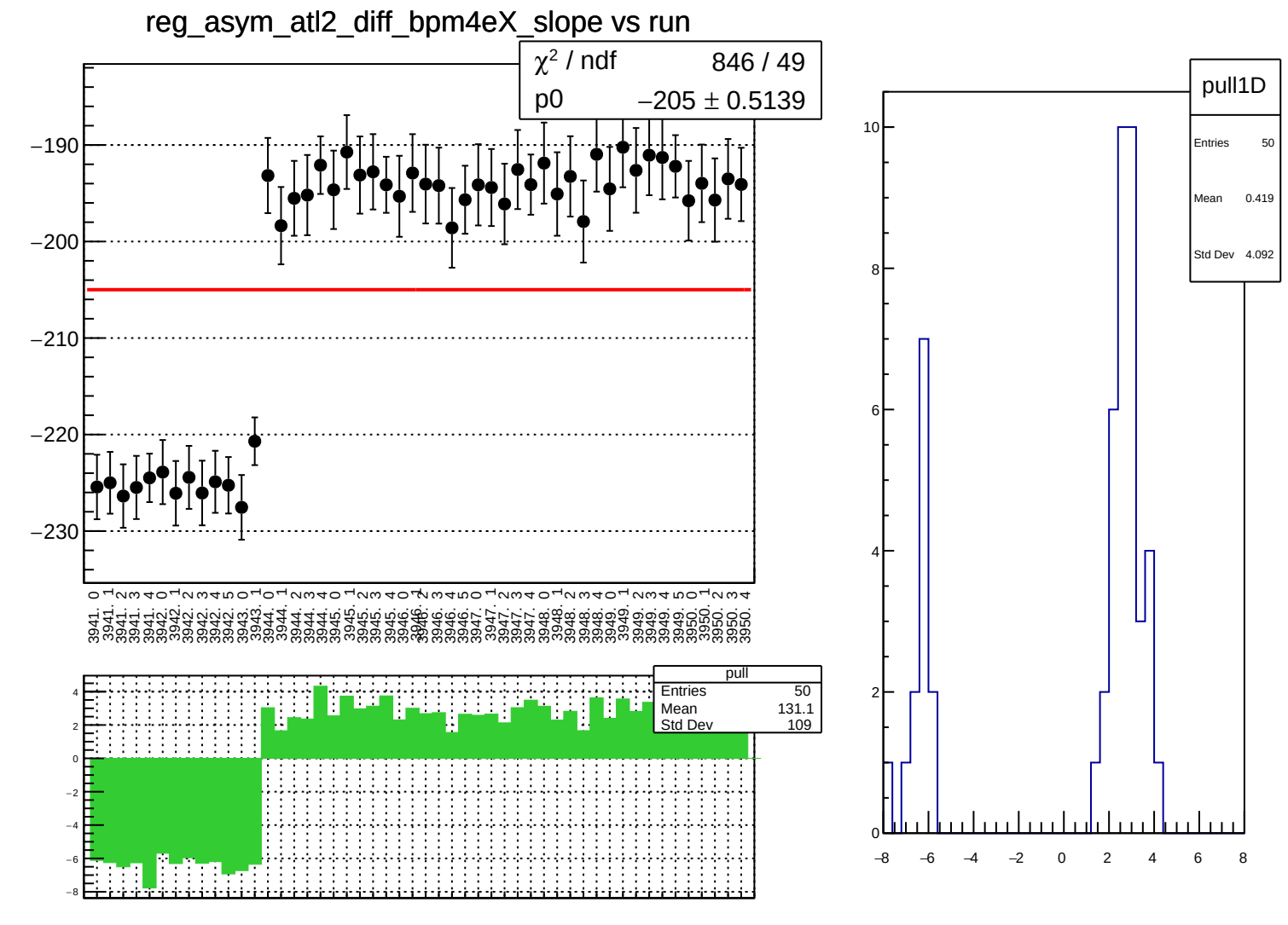

pull1D
Entries 50
Mean −0.007516
Std Dev 0.4376

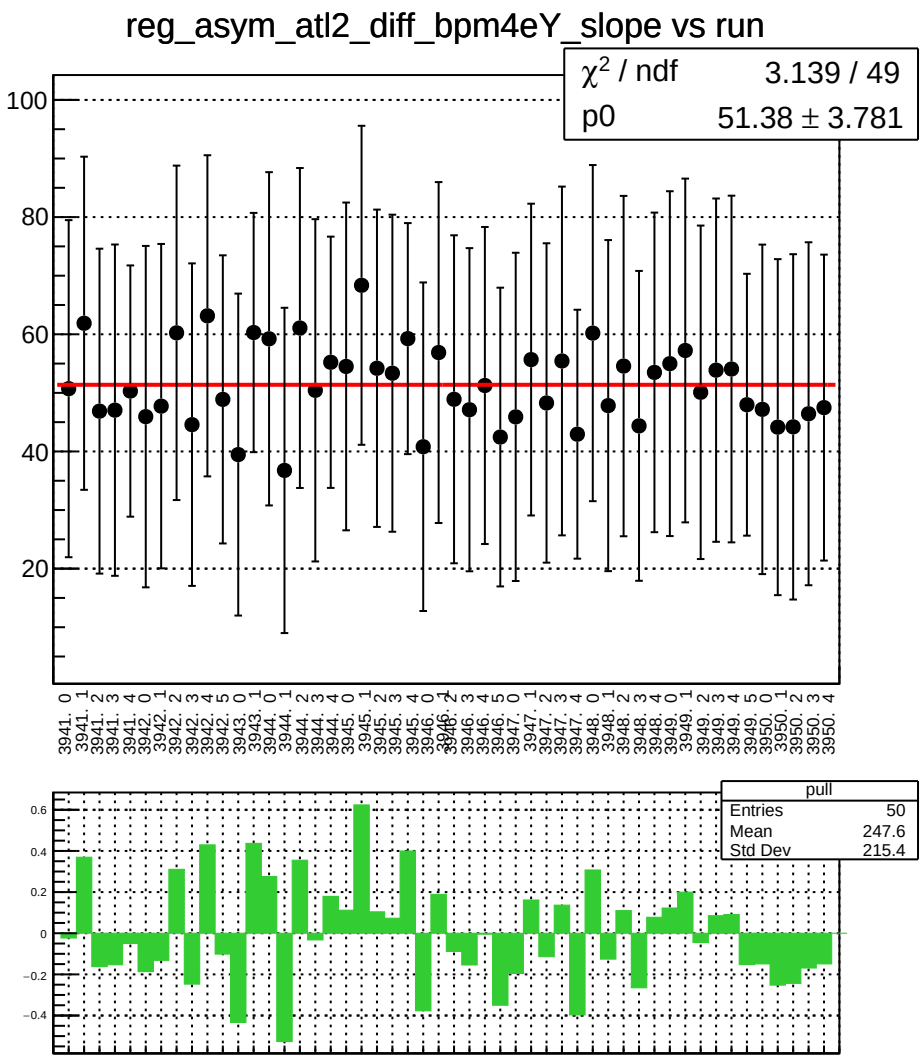

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 86.14 / 49
p0 −14.65 ± 3.181
pull
Entries 50
Mean 166.3
Std Dev 144.8

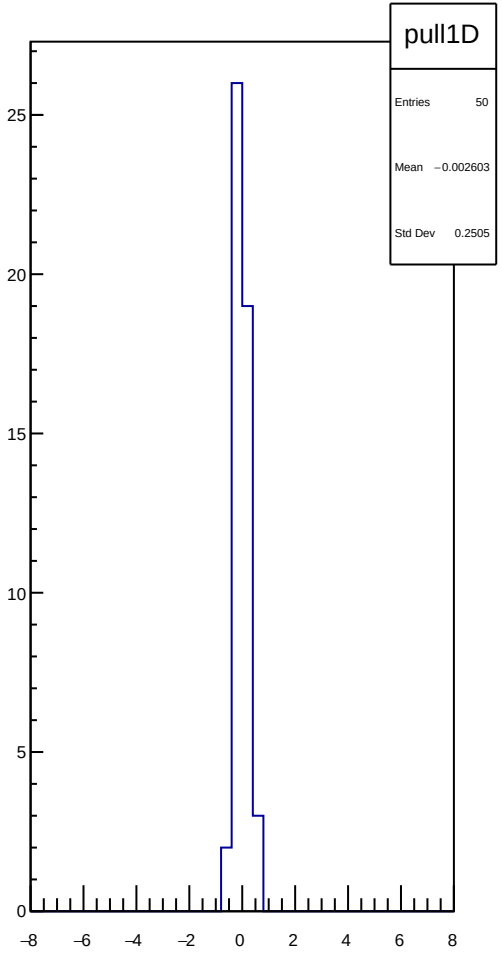

pull1D
Entries 50
Mean −0.08714
Std Dev 1.31

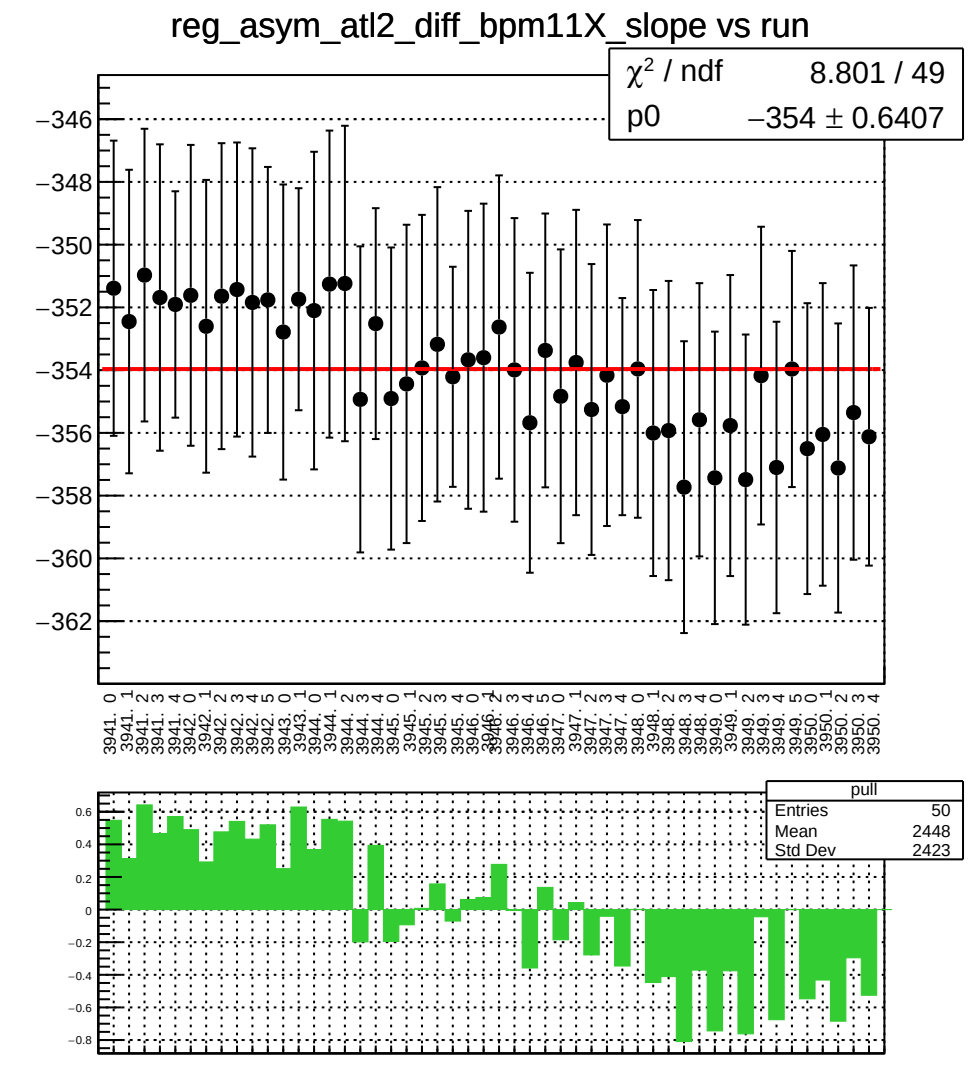

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 3.014 / 49
p0 24.87 ± 2.253
pull
Entries 50
Mean 388.9
Std Dev 362.8

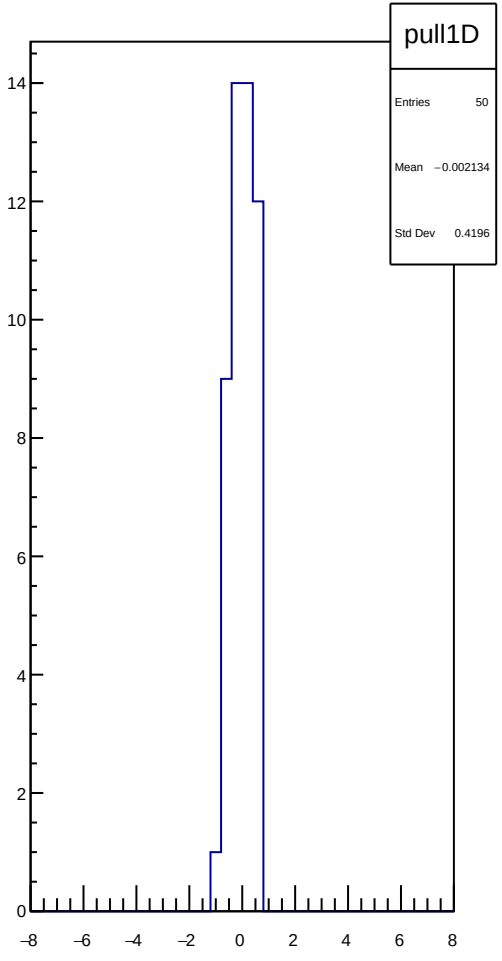

pull1D
Entries 50
Mean 0.002959
Std Dev 0.2455

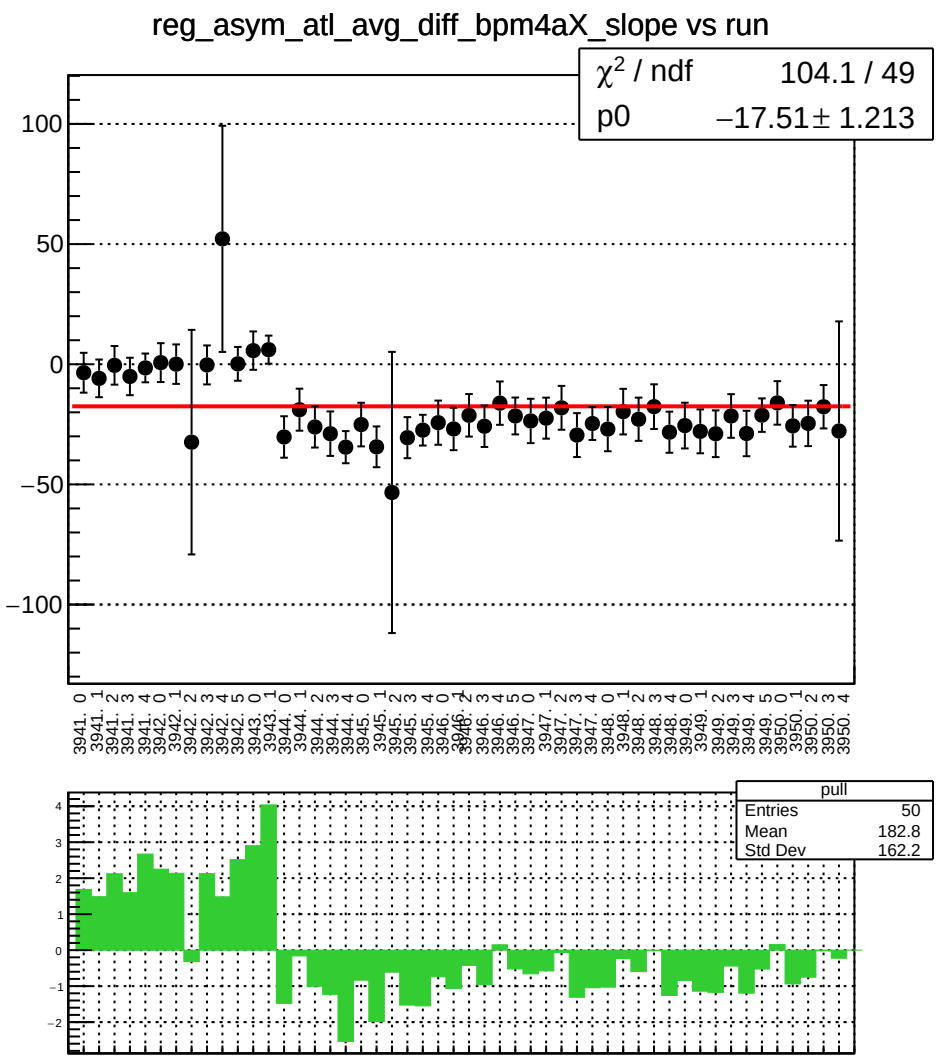

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 846 / 49
p0 −205 ± 0.5139
−190
−200
−210
−220
−230
pull
Entries 50
Mean 131.1
Std Dev 109
pull1D
Entries 50
Mean 0.419
Std Dev 4.092

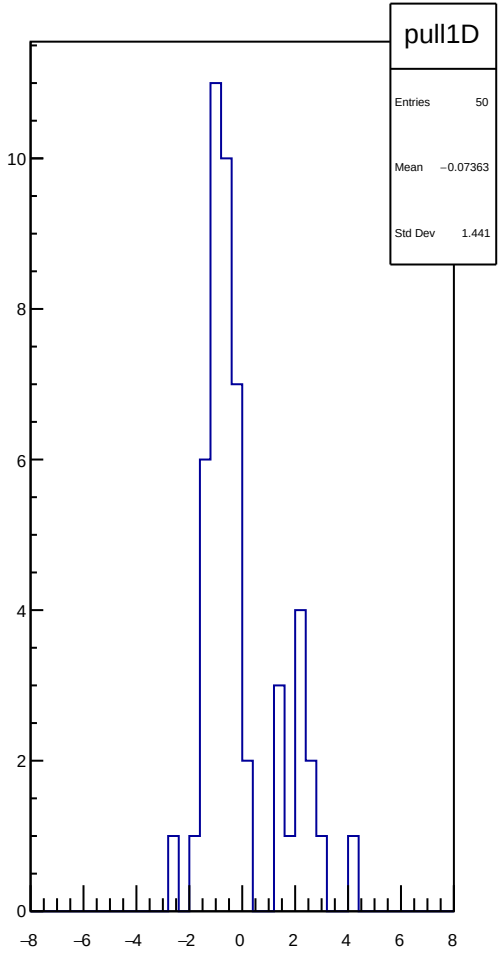

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 3.139 / 49
p0 51.38 ± 3.781
pull
Entries 50
Mean 247.6
Std Dev 215.4

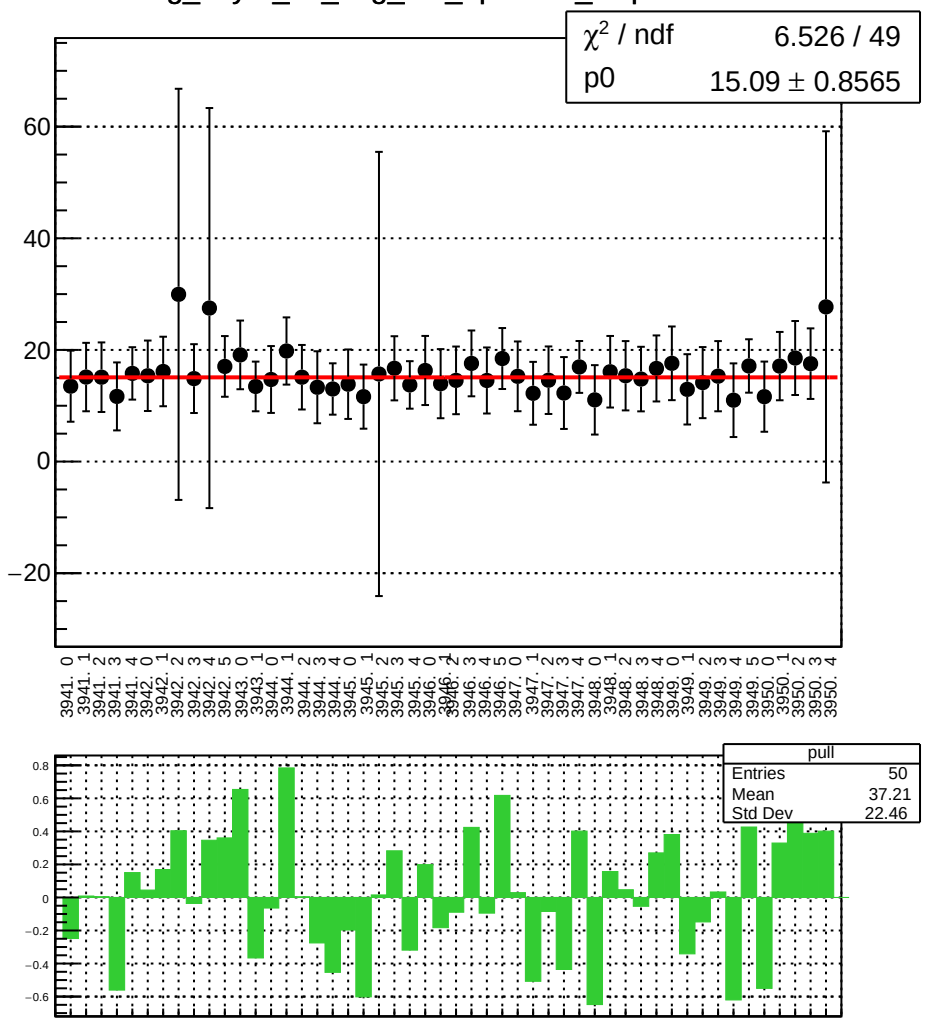

pull1D
Entries 50
Mean −0.002603
Std Dev 0.2505

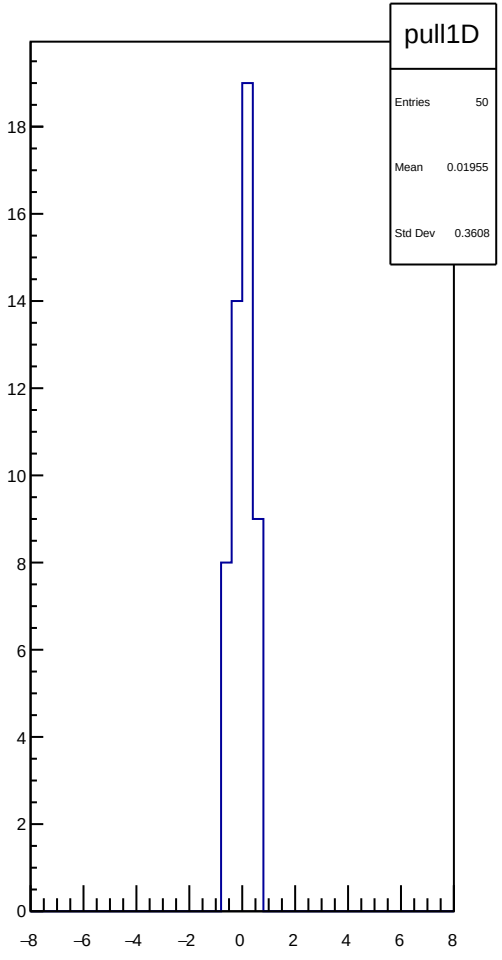

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 8.801 / 49
p0 −354 ± 0.6407
pull
Entries 50
Mean 2448
Std Dev 2423

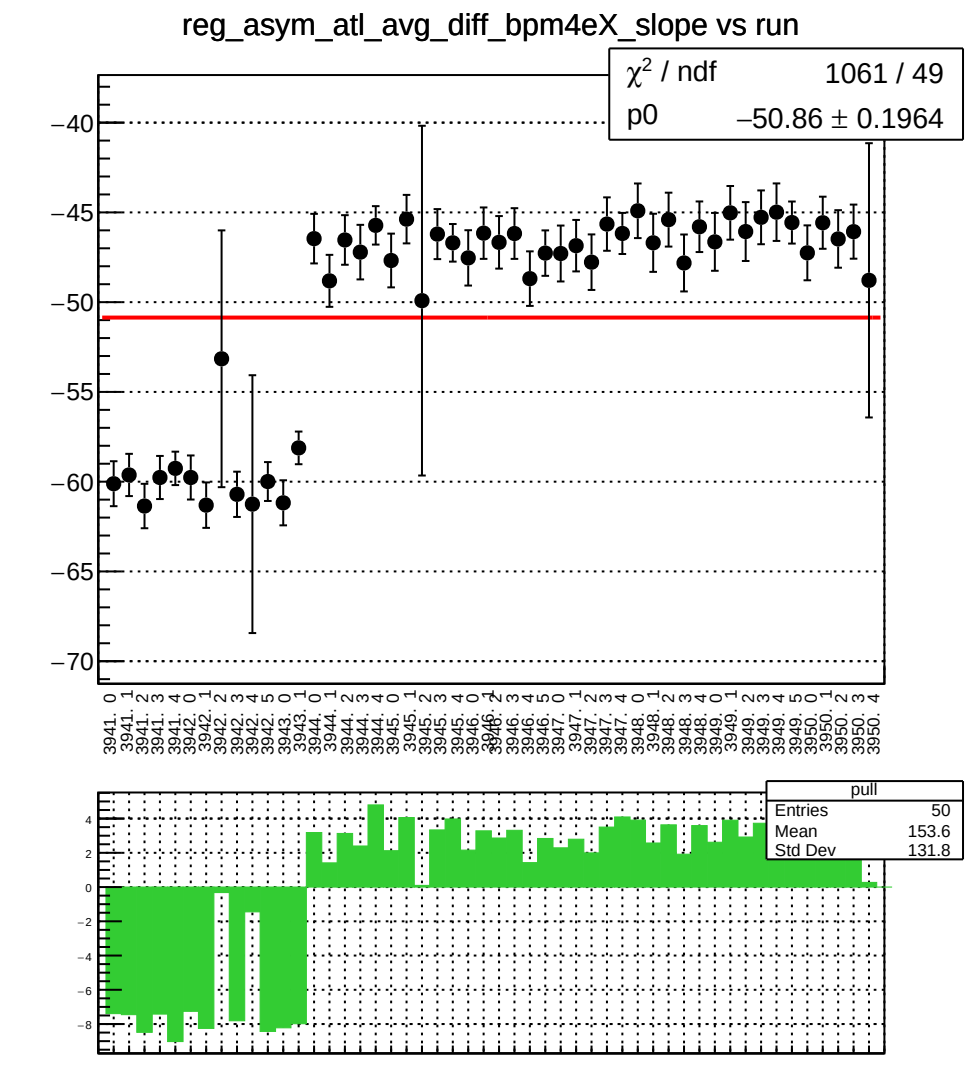

pull1D
Entries 50
Mean −0.002134
Std Dev 0.4196

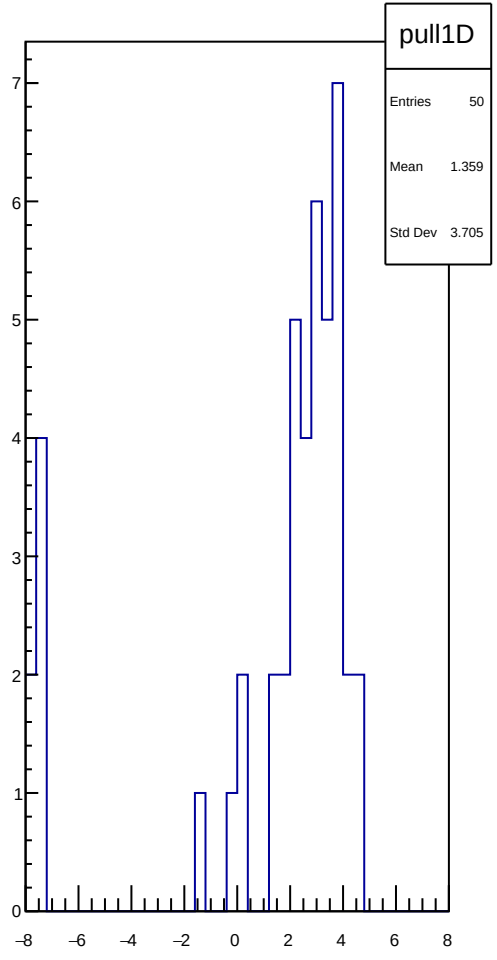

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 104.1 / 49
p0 −17.51± 1.213
100
50
0
−50
−100
pull
Entries 50
Mean 182.8
Std Dev 162.2

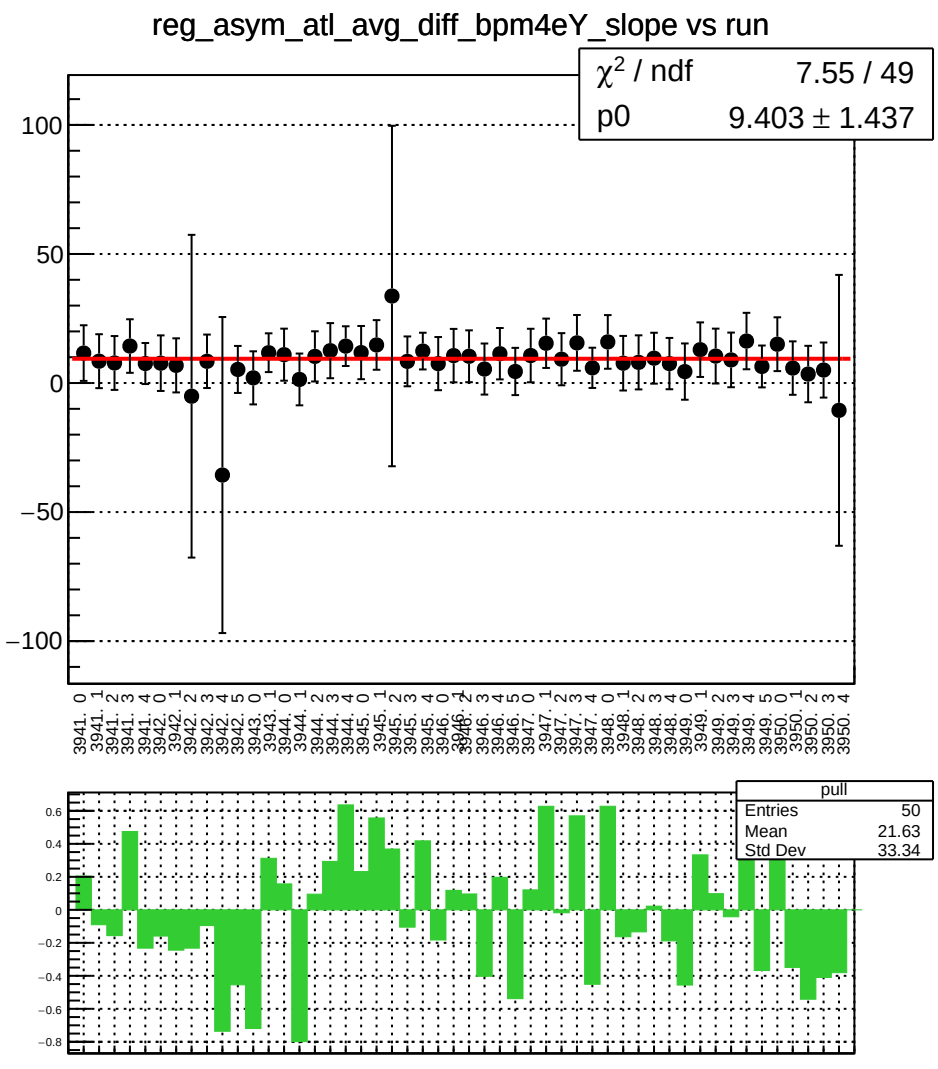

pull1D
Entries 50
Mean −0.07363
Std Dev 1.441

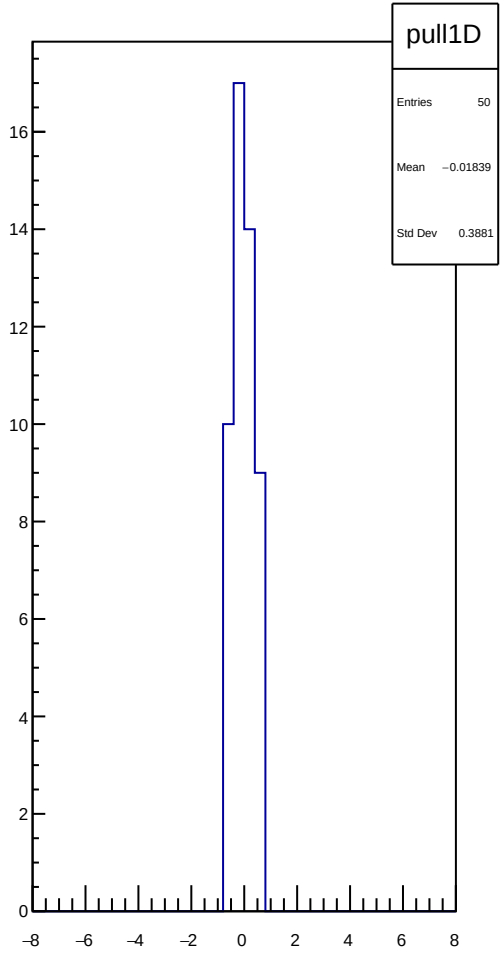

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.526 / 49
p0 15.09 ± 0.8565
pull
Entries 50
Mean 37.21
Std Dev 22.46

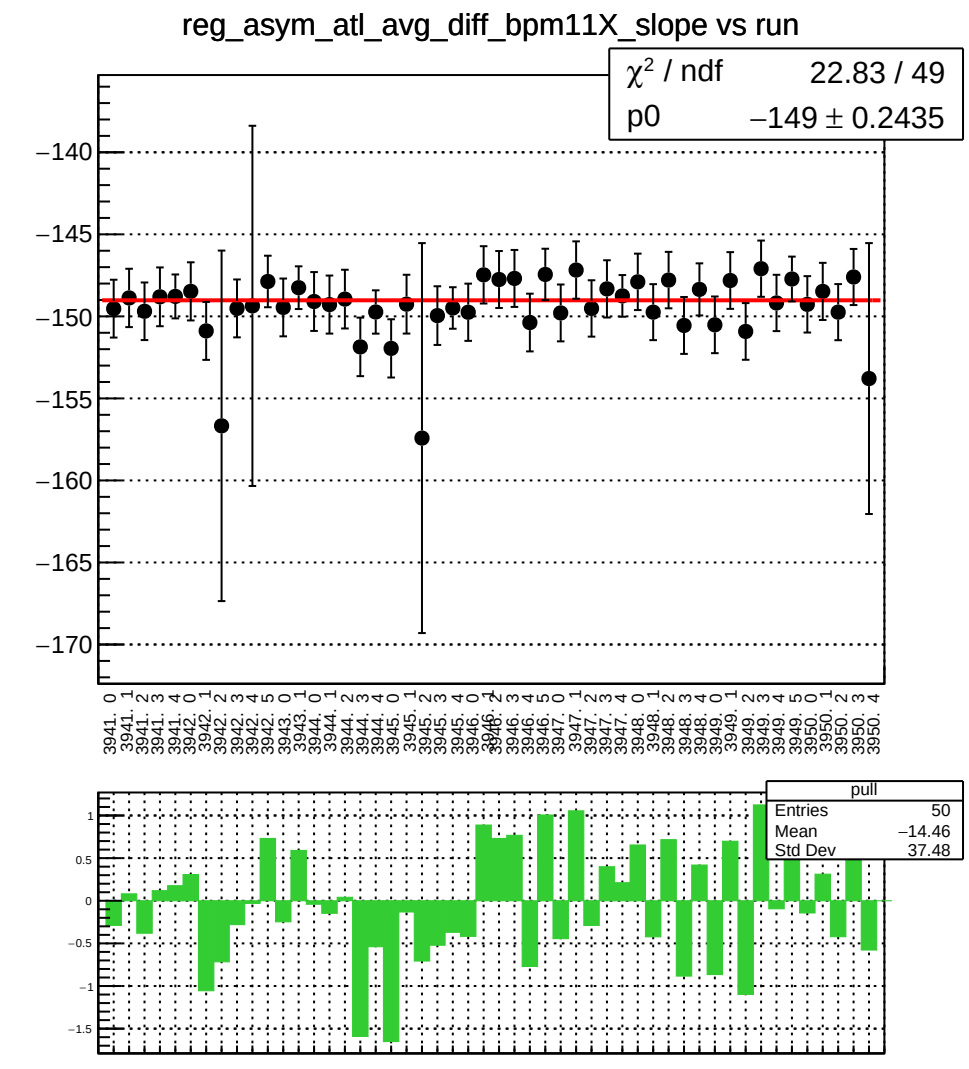

pull1D
Entries 50
Mean 0.01955
Std Dev 0.3608

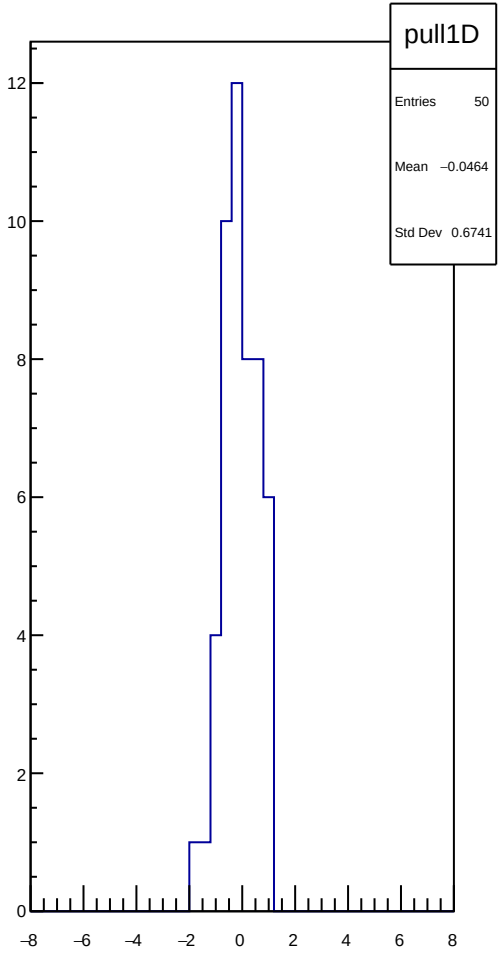

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 1061 / 49
p0 −50.86 ± 0.1964
pull
Entries 50
Mean 153.6
Std Dev 131.8

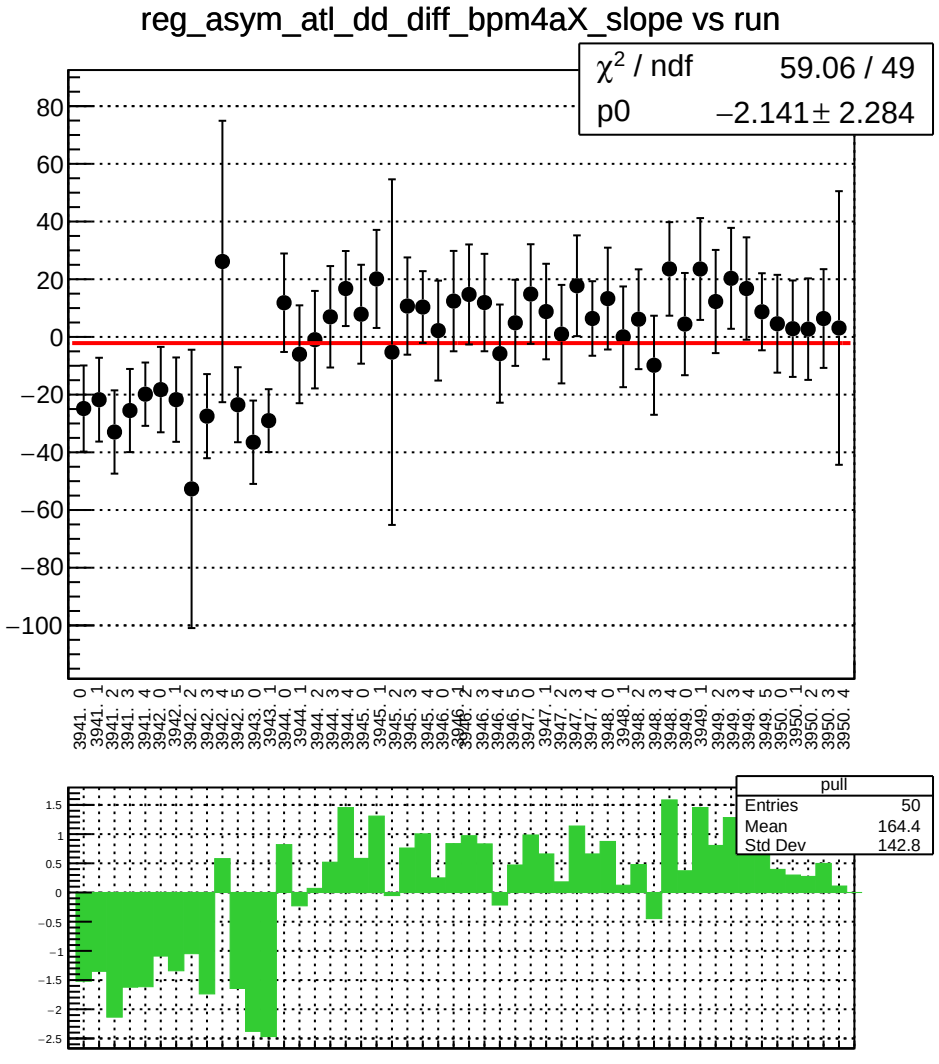

pull1D
Entries 50
Mean 1.359
Std Dev 3.705

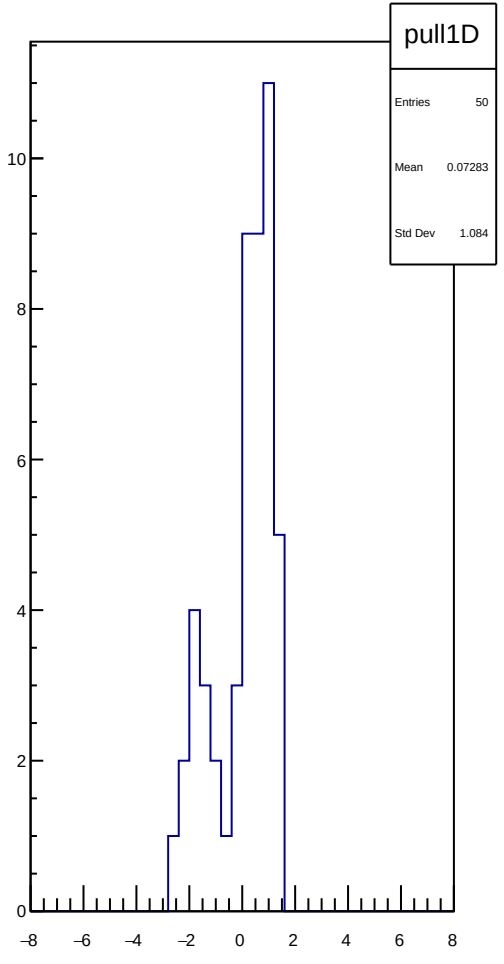

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.55 / 49
p0 9.403 ± 1.437
100
50
0
−50
−100
pull
Entries 50
Mean 21.63
Std Dev 33.34
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

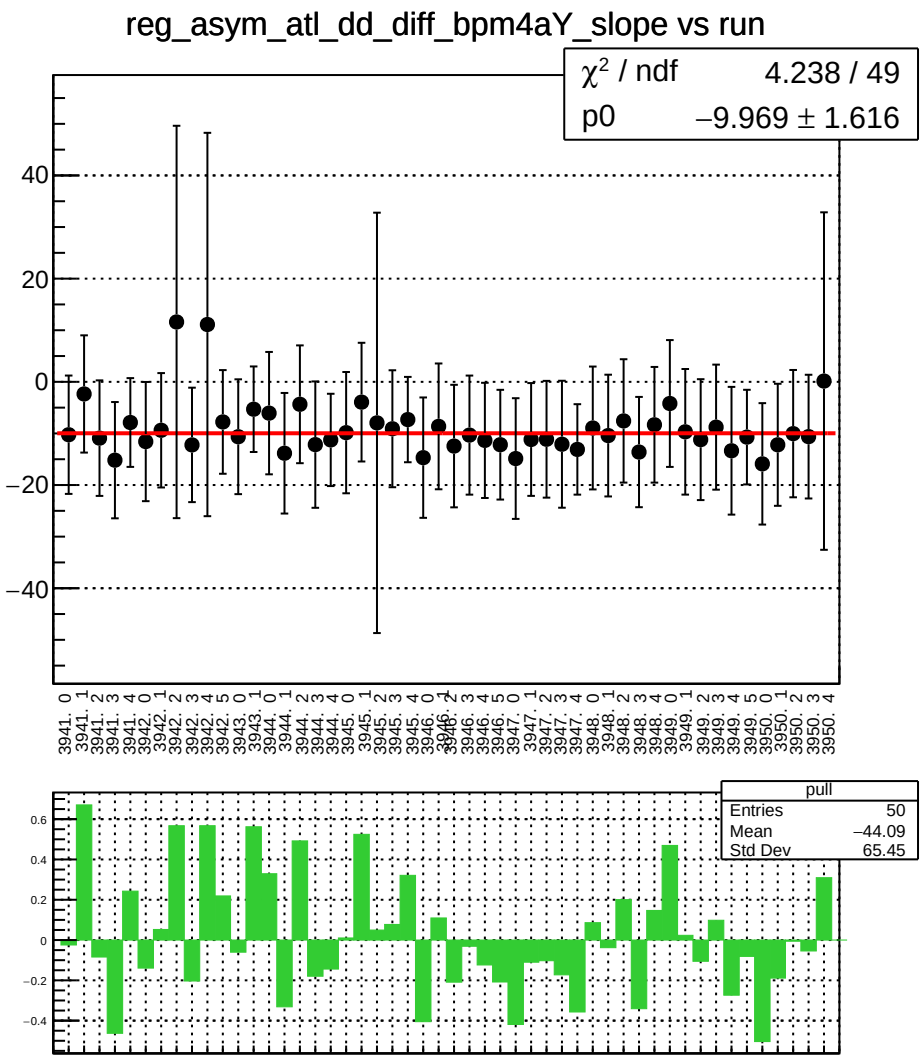

pull1D
Entries 50
Mean −0.01839
Std Dev 0.3881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

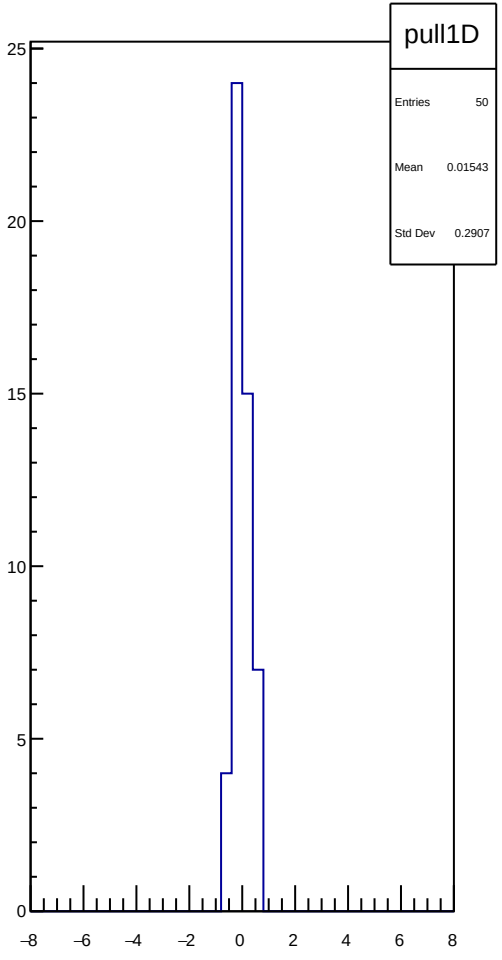

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 22.83 / 49
p0 −149 ± 0.2435
pull
Entries 50
Mean −14.46
Std Dev 37.48

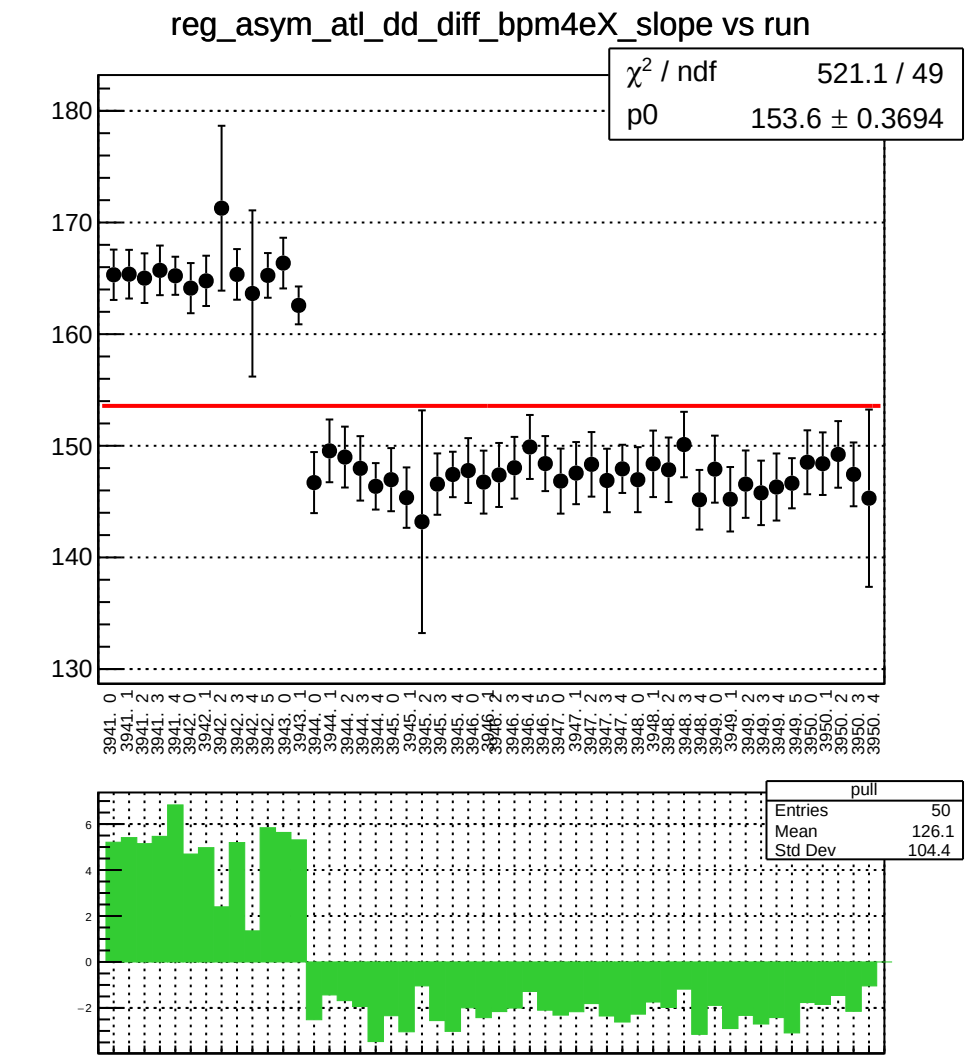

pull1D
Entries 50
Mean −0.0464
Std Dev 0.6741

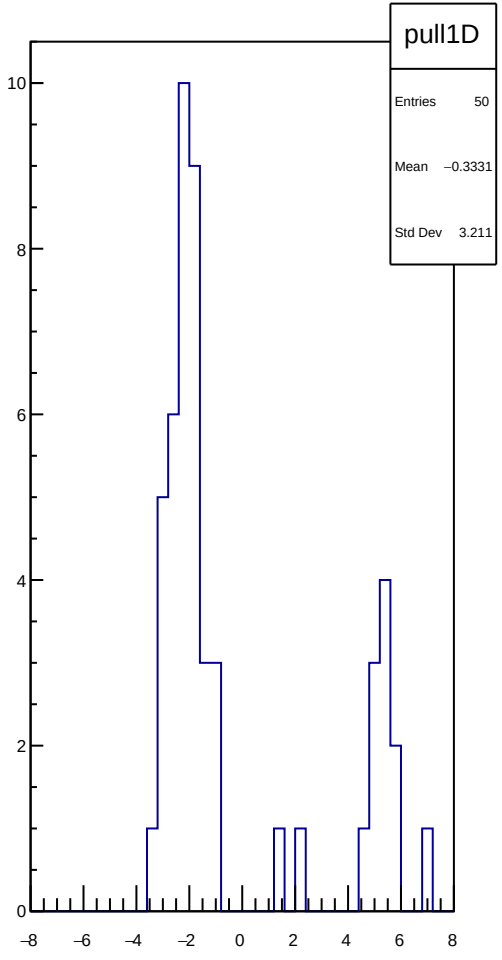

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 59.06 / 49
p0 −2.141 ± 2.284
pull
Entries 50
Mean 164.4
Std Dev 142.8

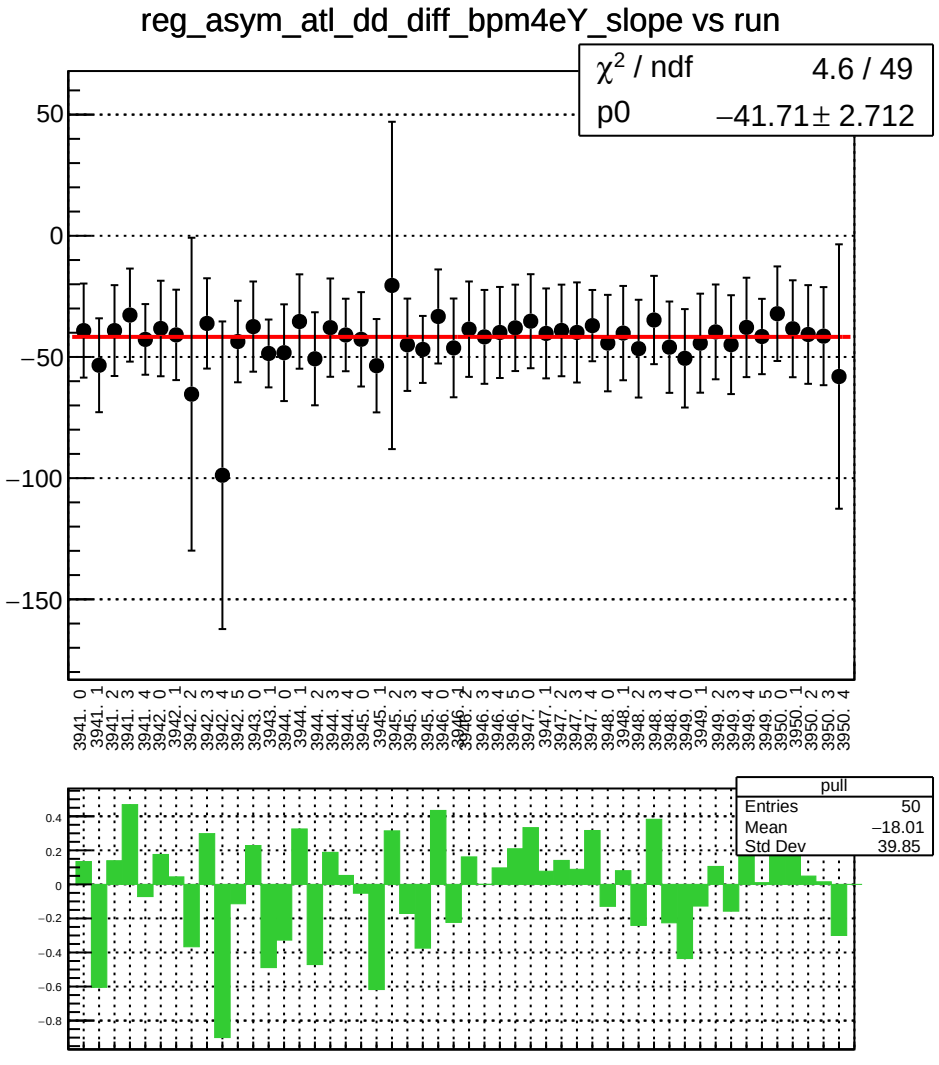

pull1D
Entries 50
Mean 0.07283
Std Dev 1.084

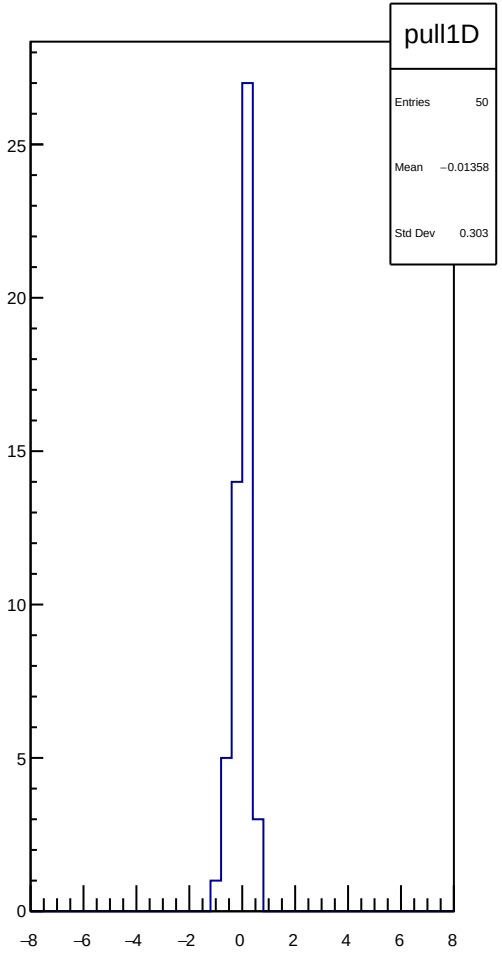

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.238 / 49
p0 −9.969 ± 1.616
pull
Entries 50
Mean −44.09
Std Dev 65.45

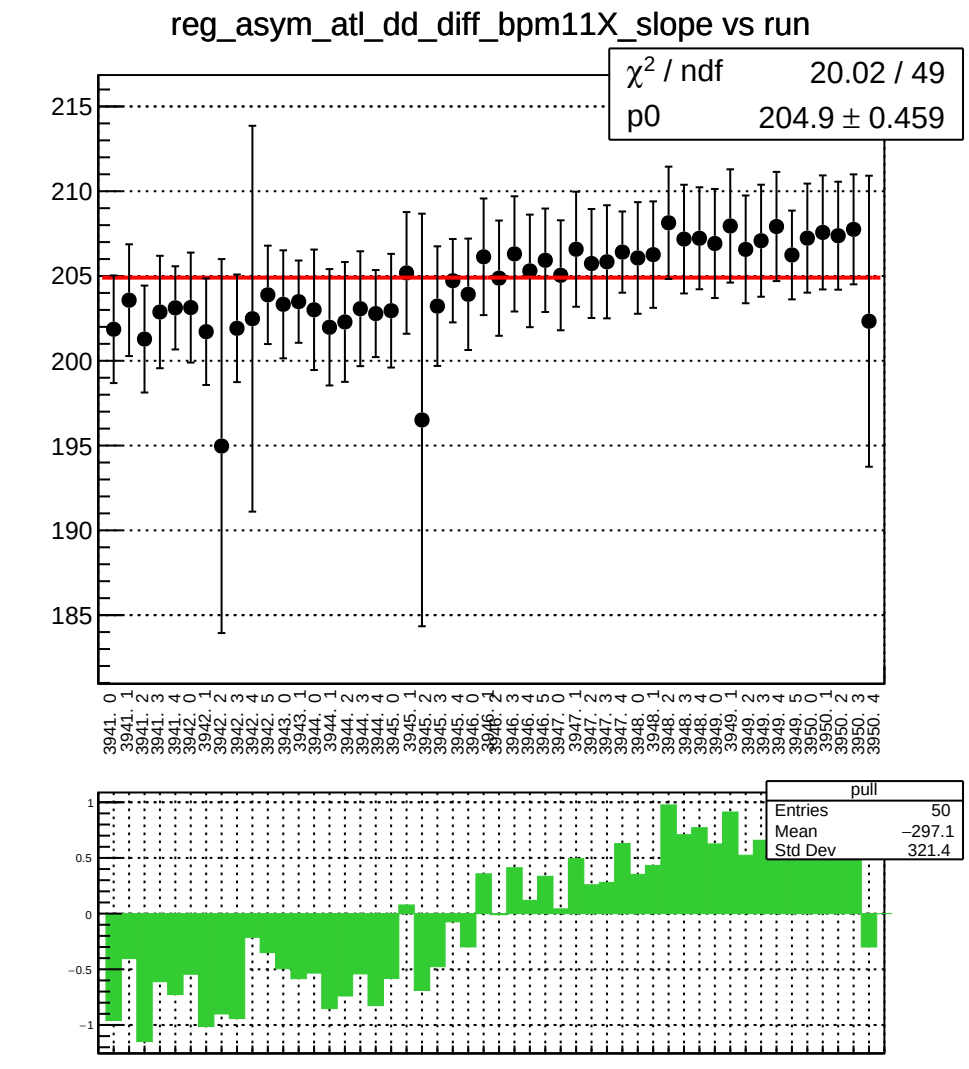

pull1D
Entries 50
Mean 0.01543
Std Dev 0.2907

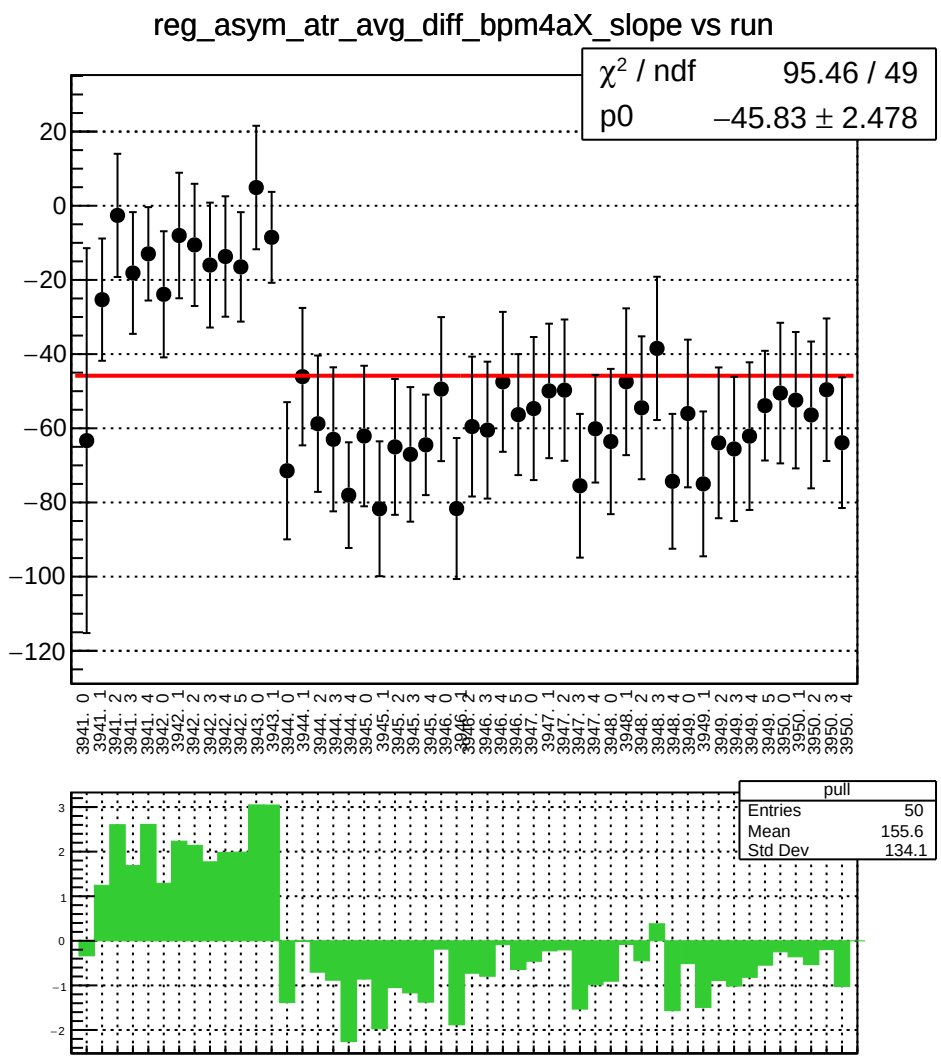

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 521.1 / 49
p0 153.6 ± 0.3694
pull
Entries 50
Mean 126.1
Std Dev 104.4

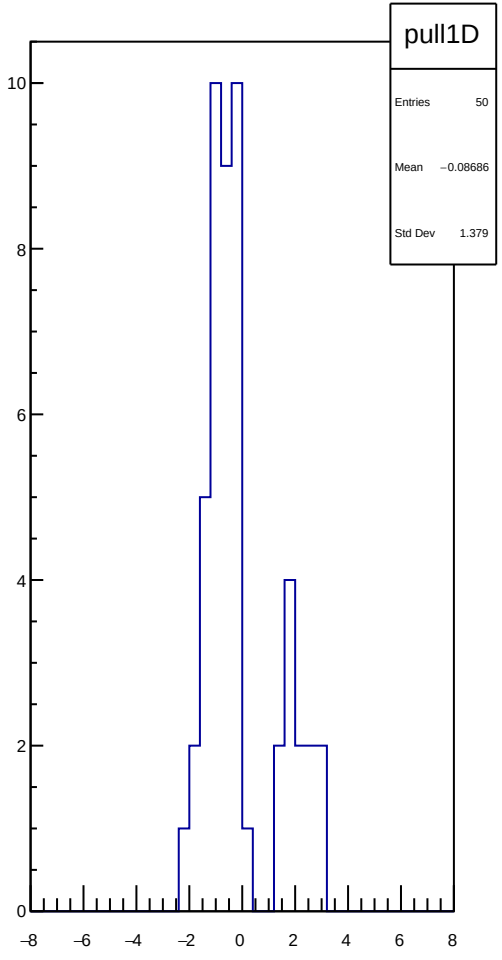

pull1D
Entries 50
Mean −0.3331
Std Dev 3.211

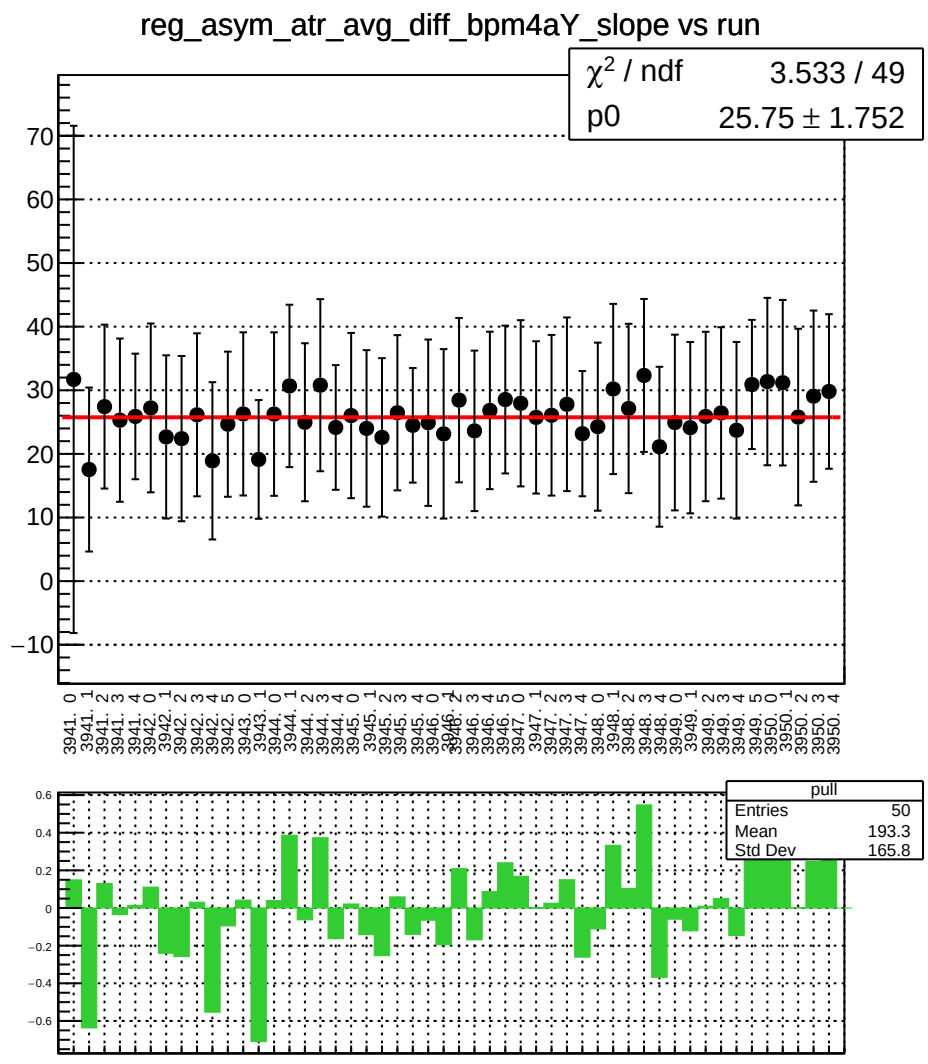

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.6 / 49
p0 −41.71 ± 2.712
50
0
−50
−100
−150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −18.01
Std Dev 39.85
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

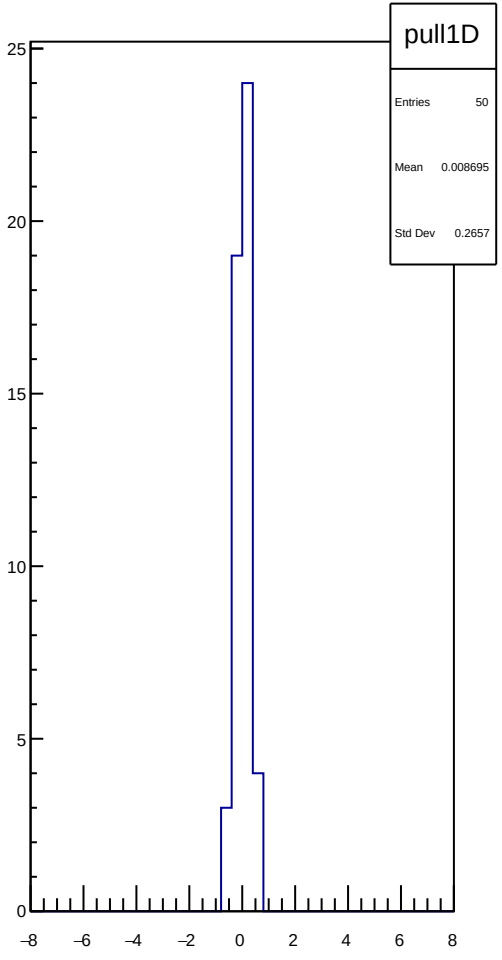

pull1D
Entries 50
Mean −0.01358
Std Dev 0.303
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

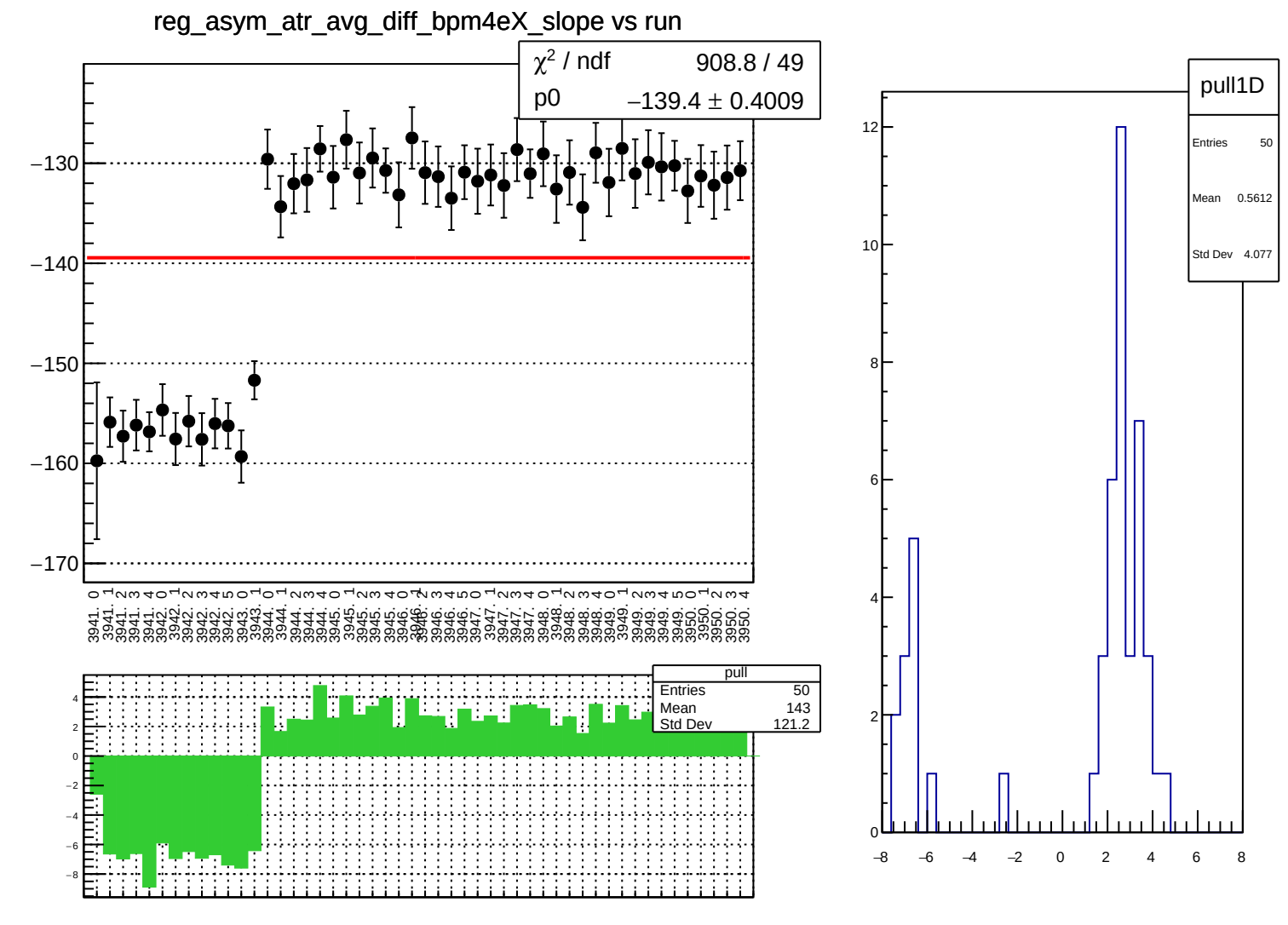

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 20.02 / 49
p0 204.9 ± 0.459
215
210
205
200
195
190
185
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −297.1
Std Dev 321.4
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean −0.02467
Std Dev 0.6322
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

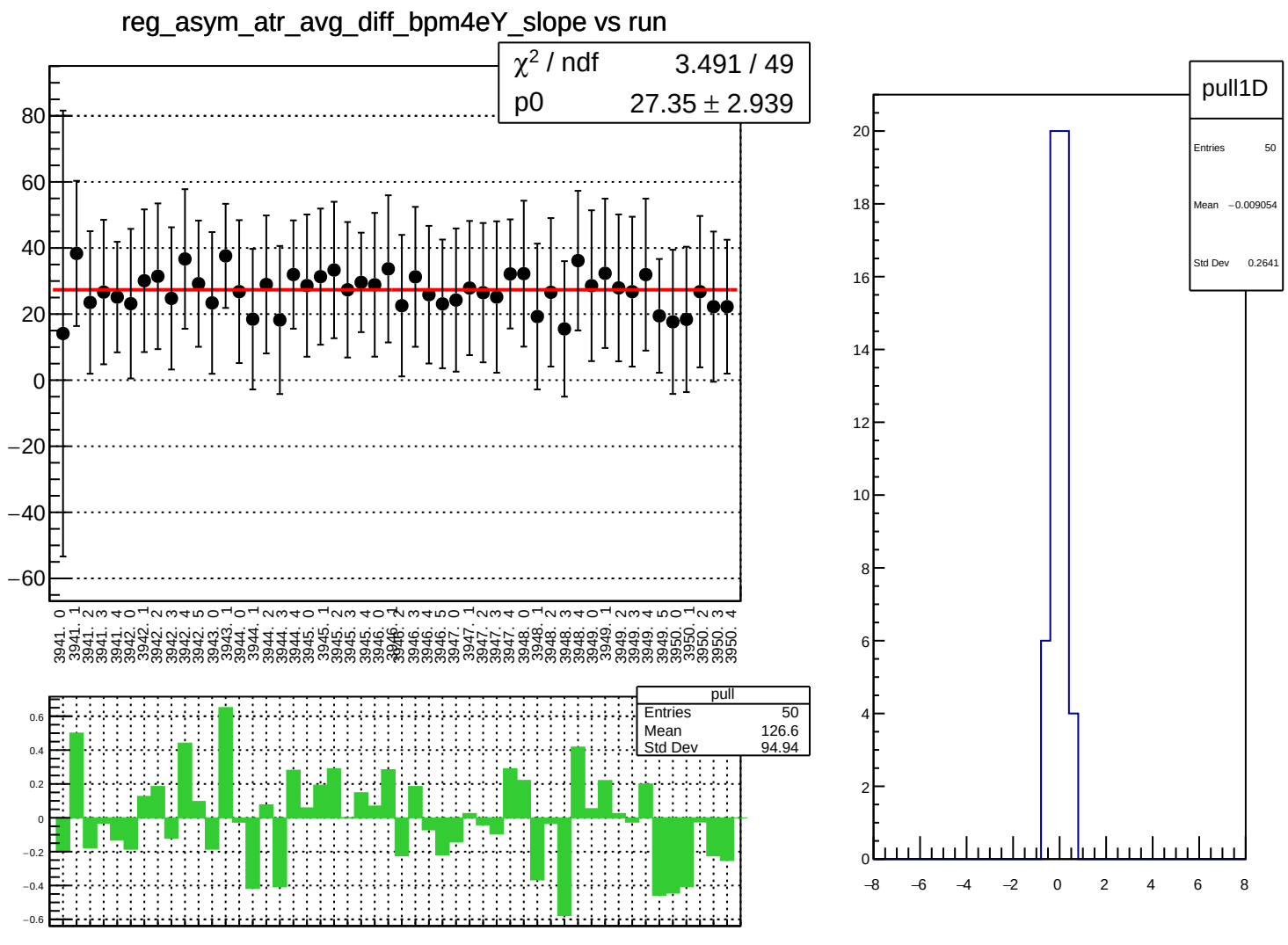

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 95.46 / 49
p0 −45.83 ± 2.478
pull
Entries 50
Mean 155.6
Std Dev 134.1

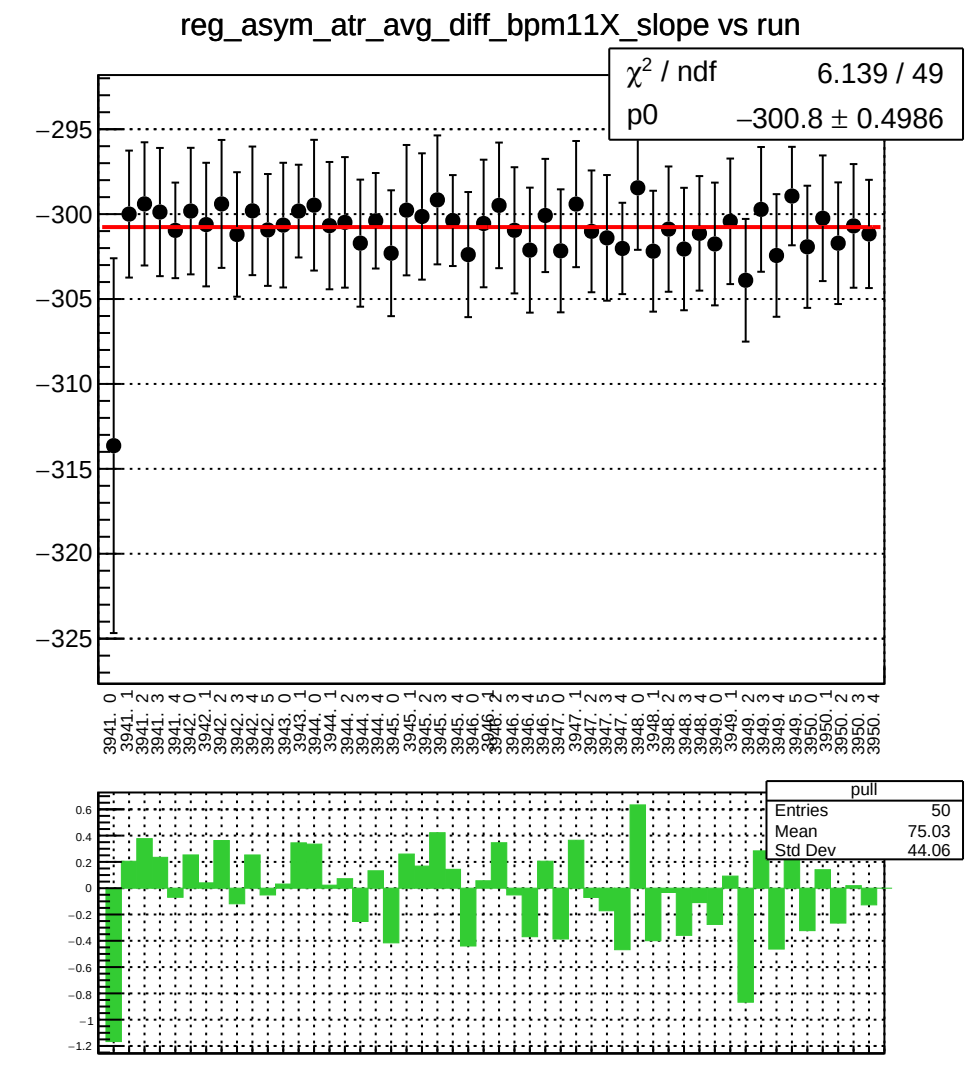

pull1D
Entries 50
Mean −0.08686
Std Dev 1.379

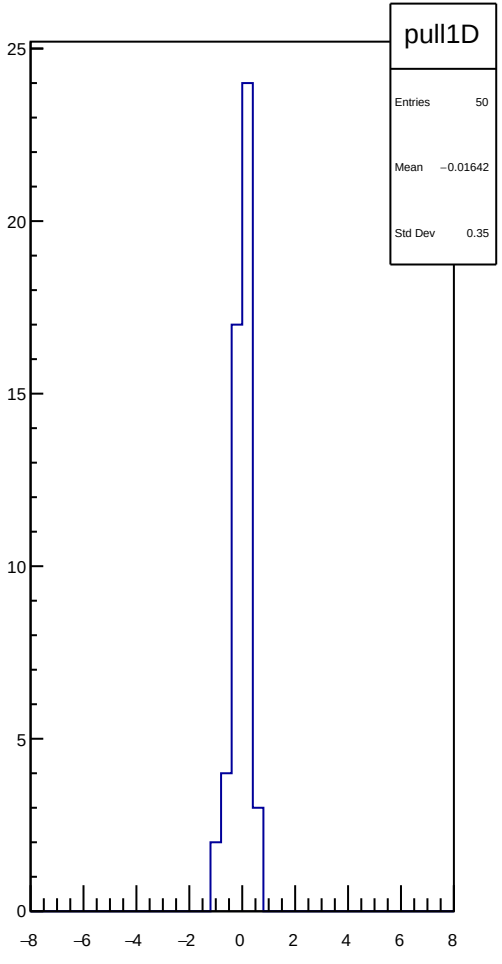

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.533 / 49
p0 25.75 ± 1.752
pull
Entries 50
Mean 193.3
Std Dev 165.8

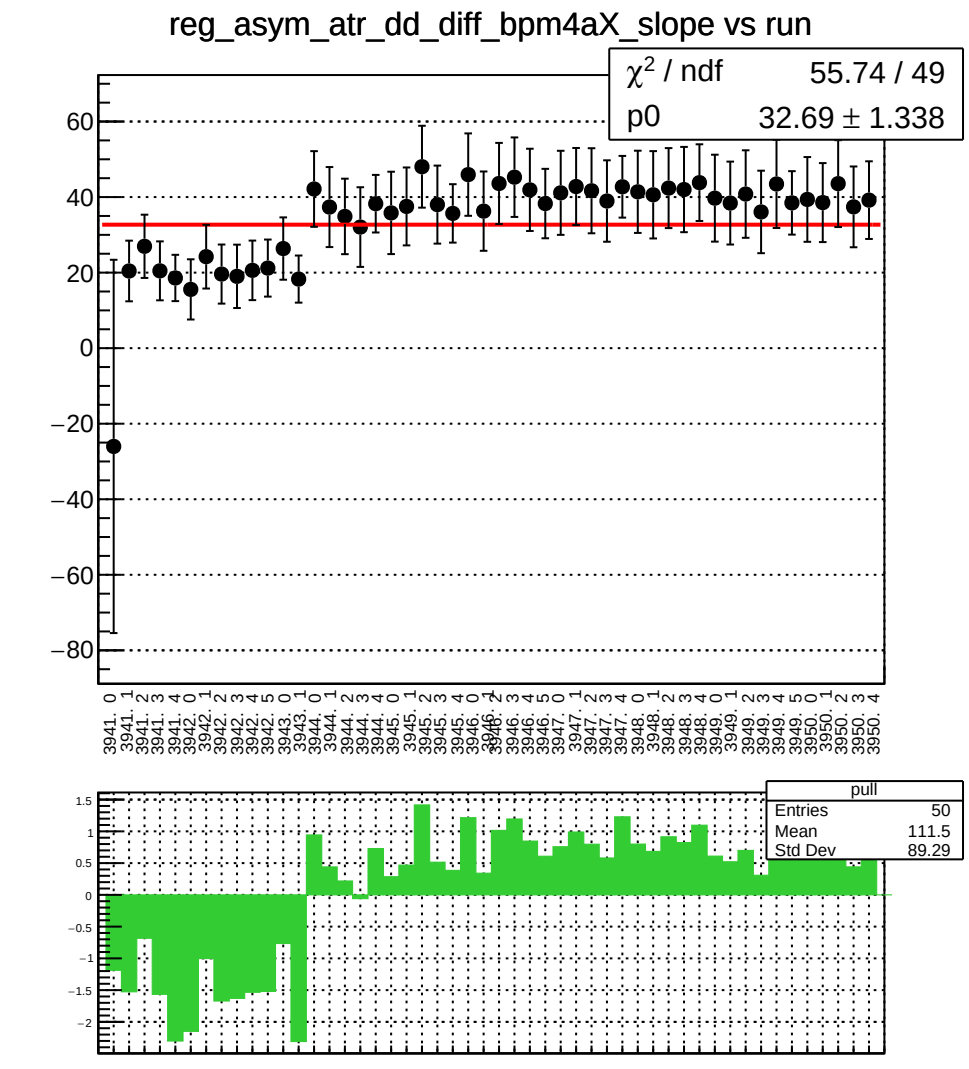

pull1D
Entries 50
Mean 0.008695
Std Dev 0.2657

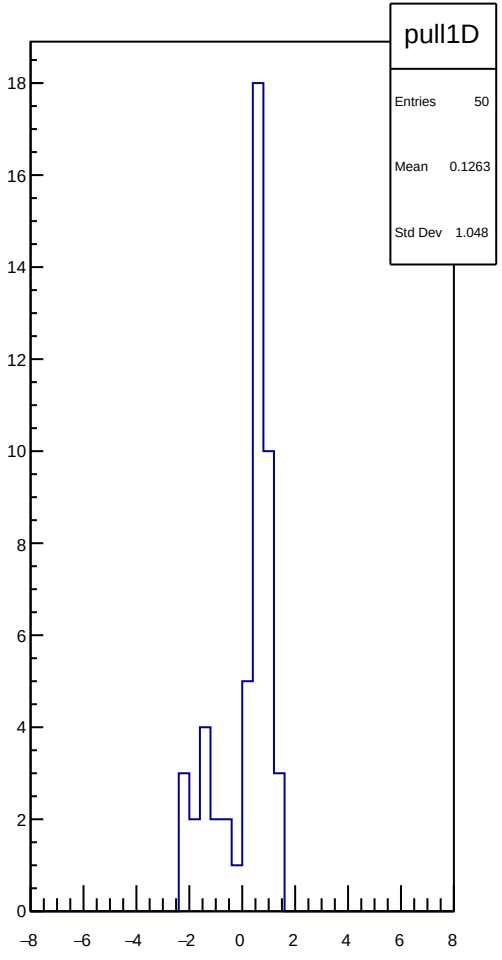

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 908.8 / 49
p0 −139.4 ± 0.4009
−130
−140
−150
−160
−170
pull
Entries 50
Mean 143
Std Dev 121.2
pull1D
Entries 50
Mean 0.5612
Std Dev 4.077

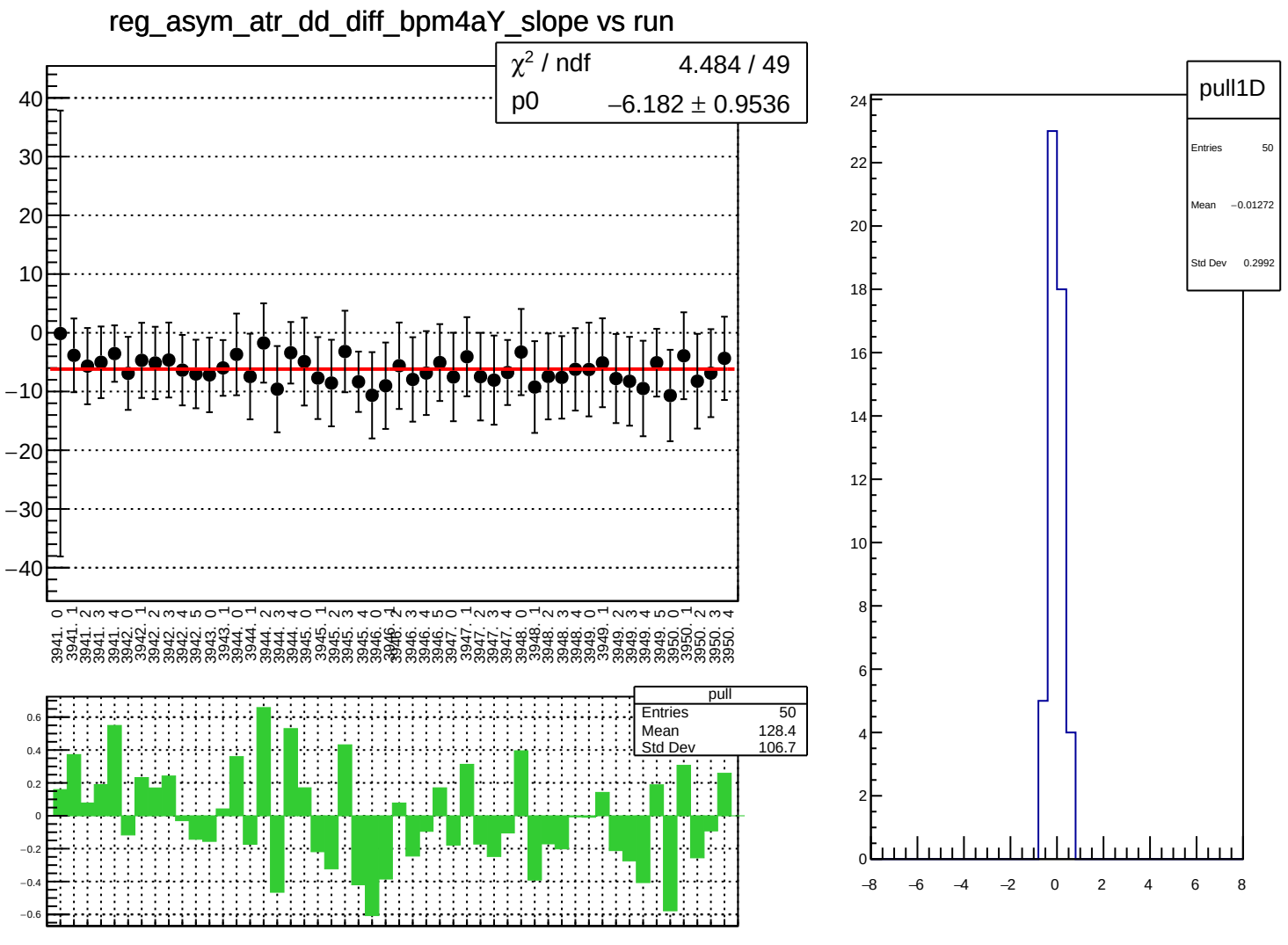

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.491 / 49
p0 27.35 ± 2.939
pull
Entries 50
Mean 126.6
Std Dev 94.94
pull1D
Entries 50
Mean −0.009054
Std Dev 0.2641

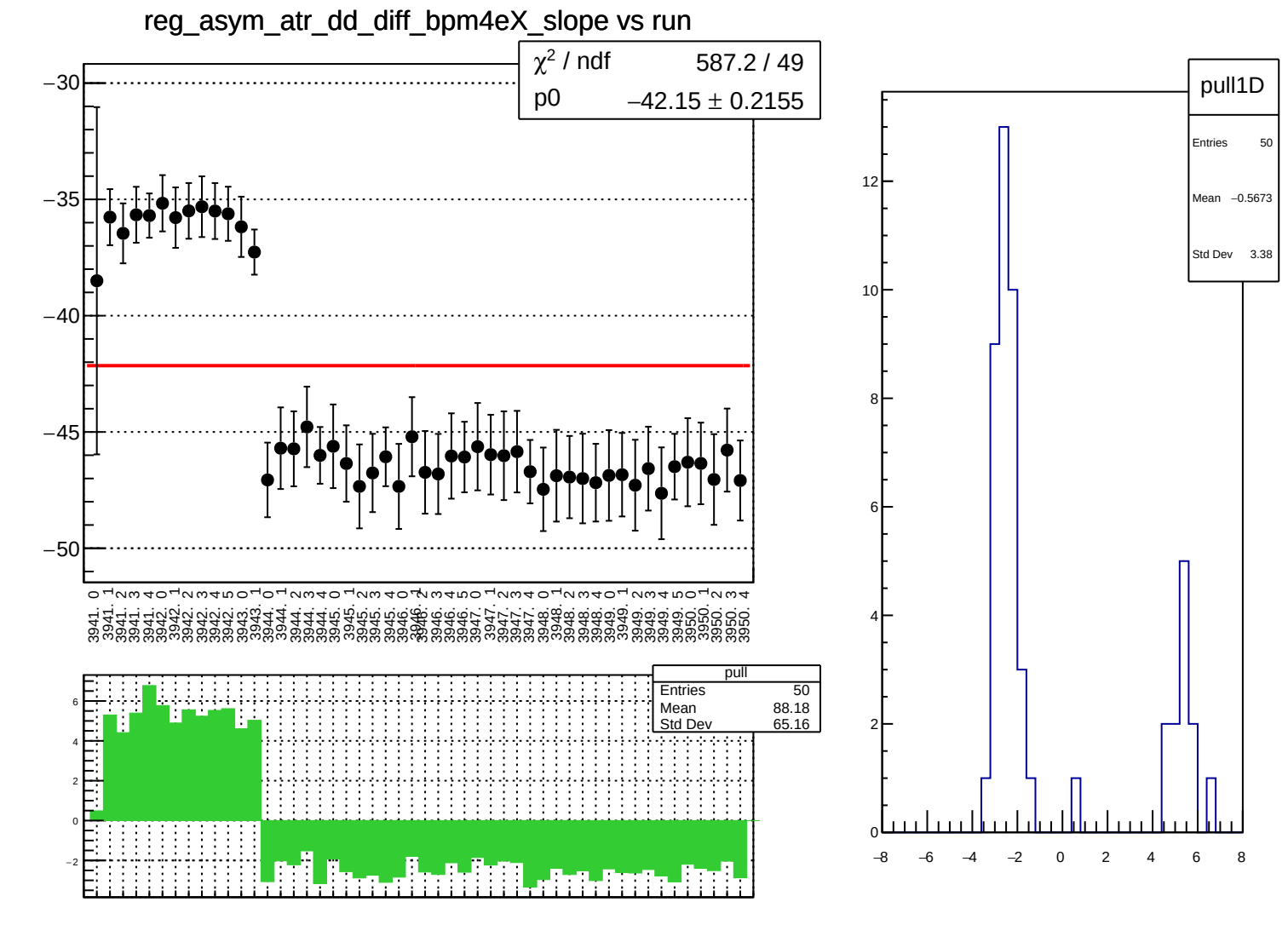

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 6.139 / 49
p0 −300.8 ± 0.4986
pull
Entries 50
Mean 75.03
Std Dev 44.06

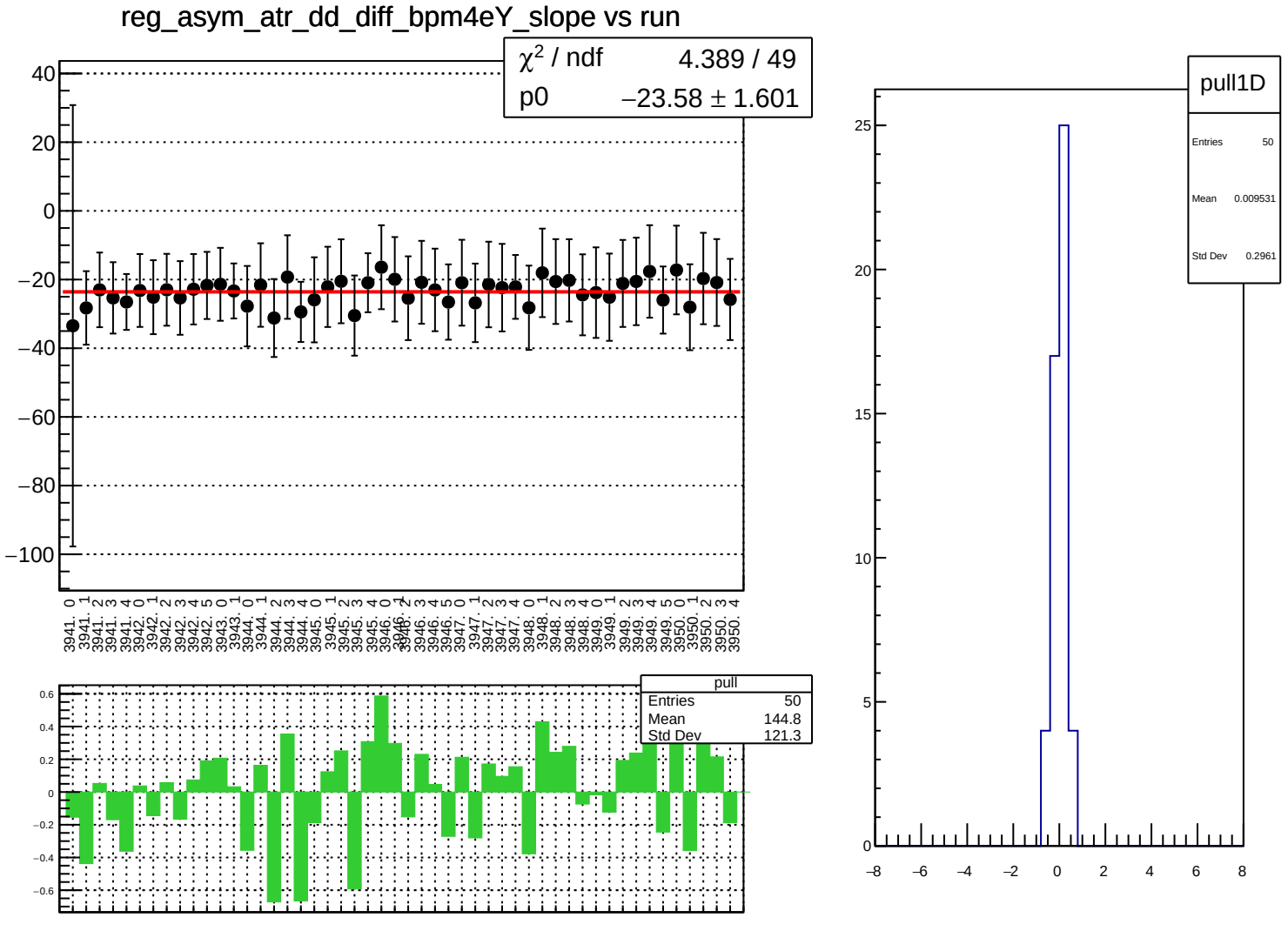

pull1D
Entries 50
Mean −0.01642
Std Dev 0.35

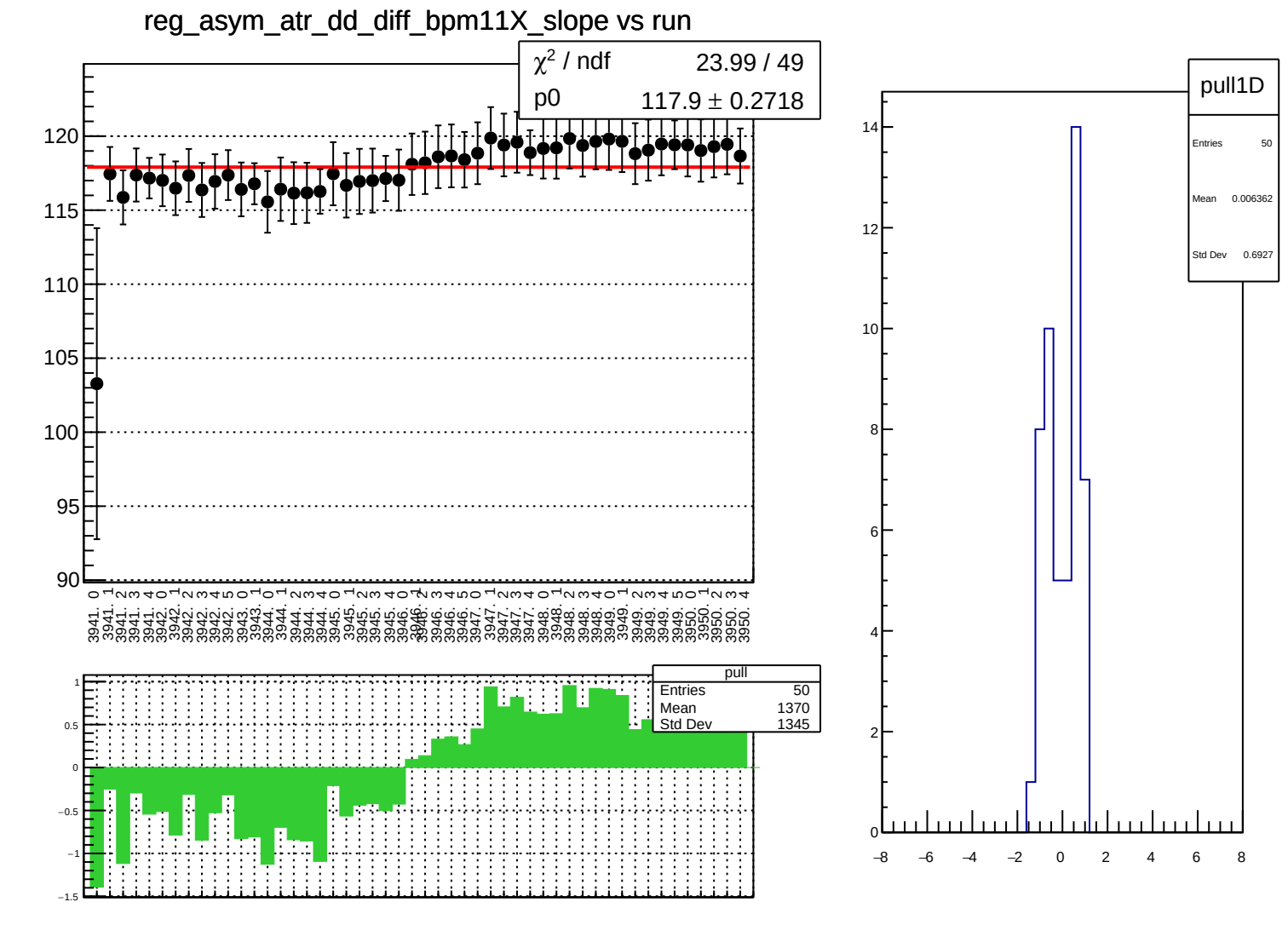

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 55.74 / 49
p0 32.69 ± 1.338
pull
Entries 50
Mean 111.5
Std Dev 89.29

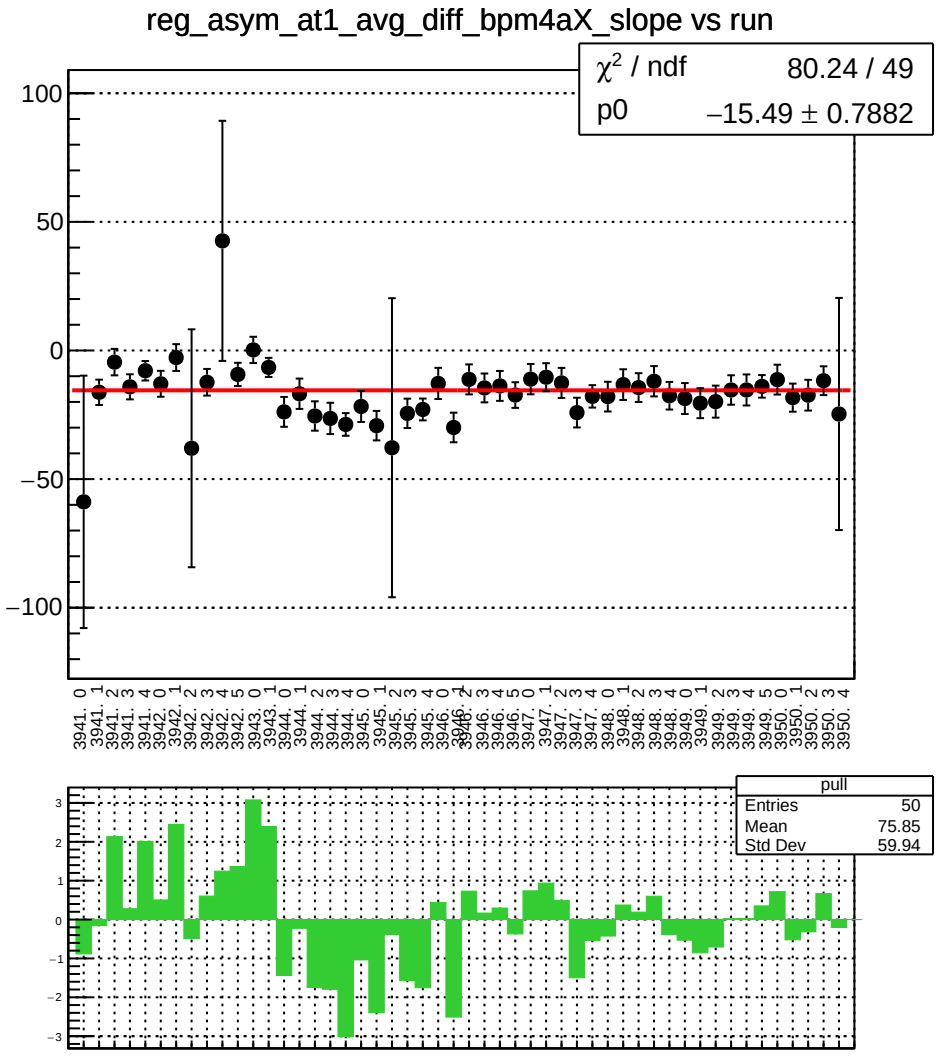

pull1D
Entries 50
Mean 0.1263
Std Dev 1.048

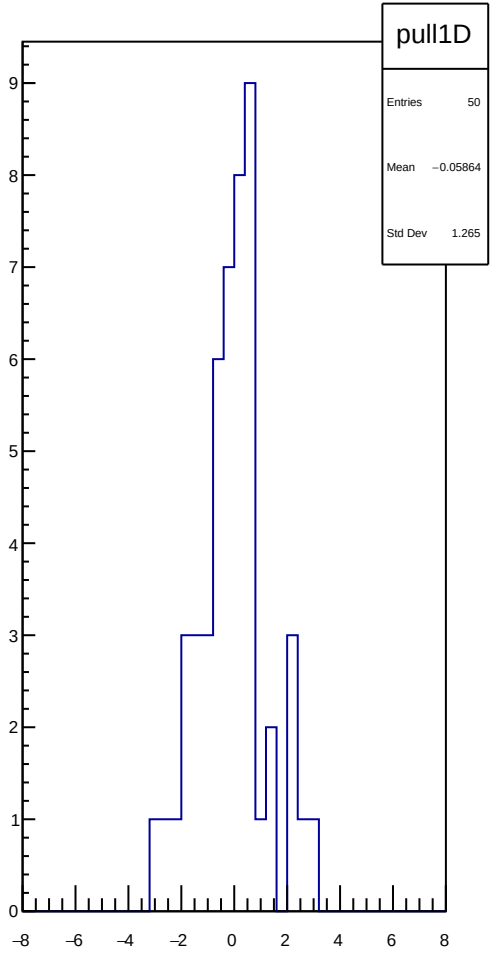

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.484 / 49
p0 −6.182 ± 0.9536
pull
Entries 50
Mean 128.4
Std Dev 106.7
pull1D
Entries 50
Mean −0.01272
Std Dev 0.2992

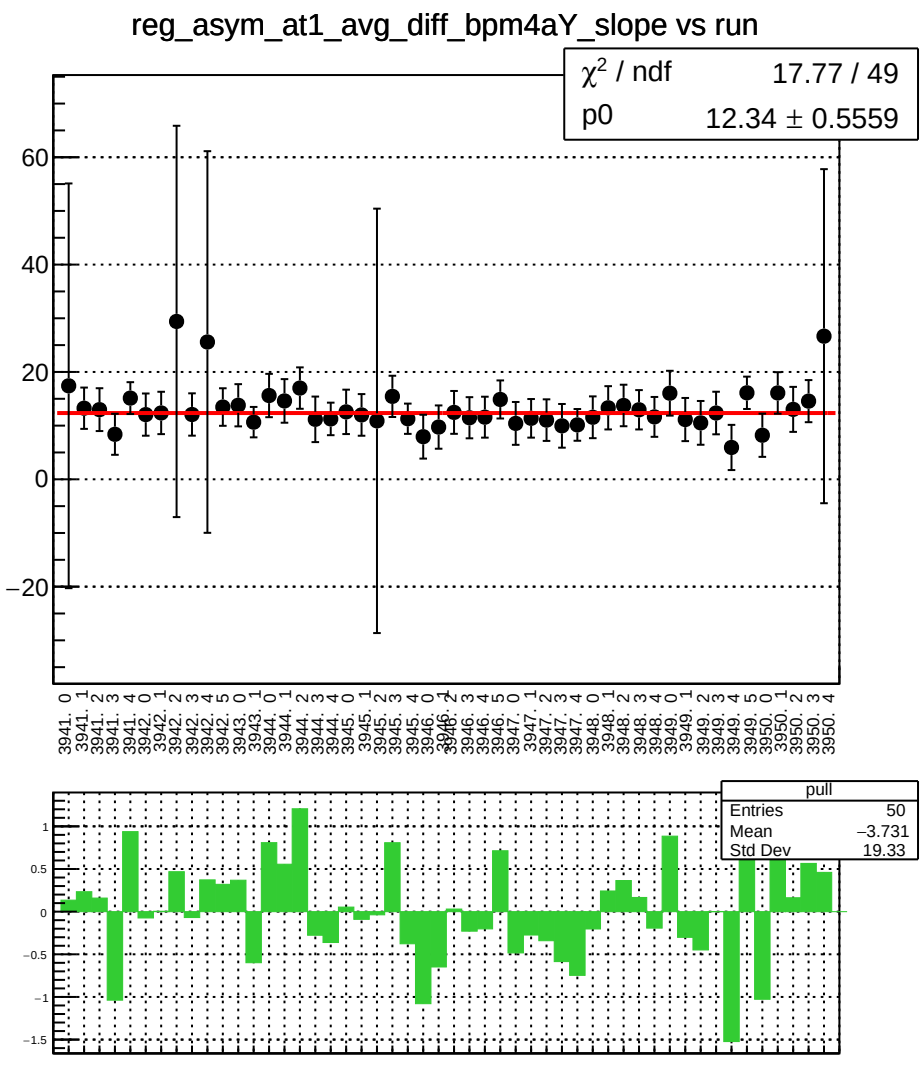

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 587.2 / 49
p0 −42.15 ± 0.2155
pull
Entries 50
Mean 88.18
Std Dev 65.16
pull1D
Entries 50
Mean −0.5673
Std Dev 3.38

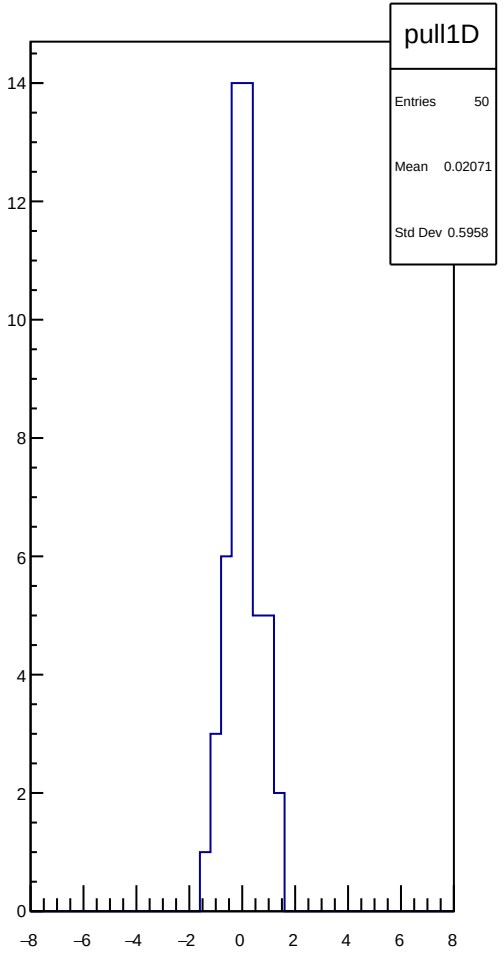

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.389 / 49
p0 −23.58 ± 1.601
pull
Entries 50
Mean 144.8
Std Dev 121.3
pull1D
Entries 50
Mean 0.009531
Std Dev 0.2961

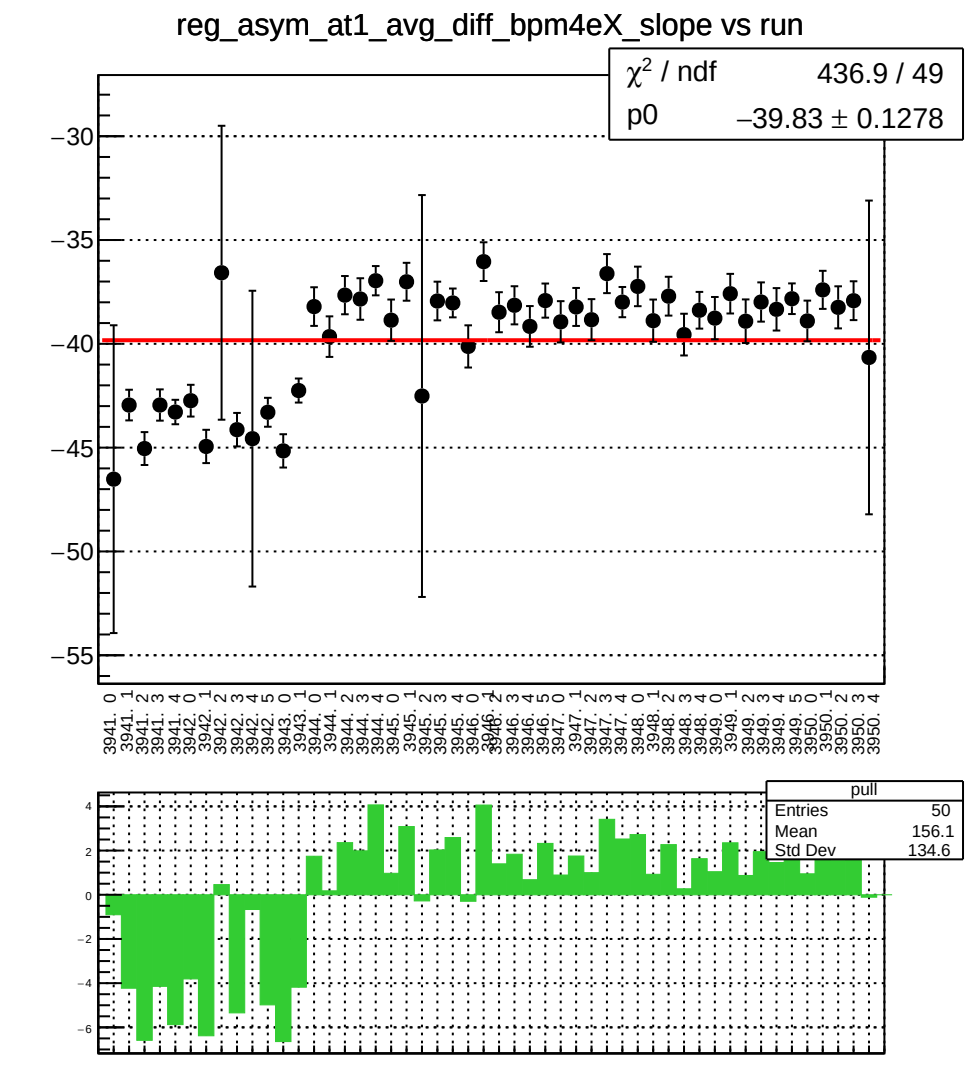

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 23.99 / 49
p0 117.9 ± 0.2718
pull
Entries 50
Mean 1370
Std Dev 1345
pull1D
Entries 50
Mean 0.006362
Std Dev 0.6927

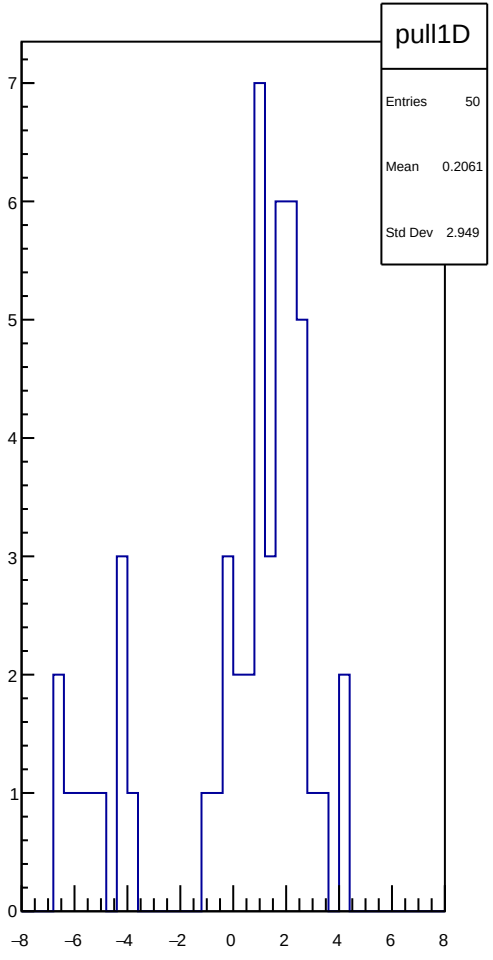

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 80.24 / 49
p0 −15.49 ± 0.7882
pull
Entries 50
Mean 75.85
Std Dev 59.94

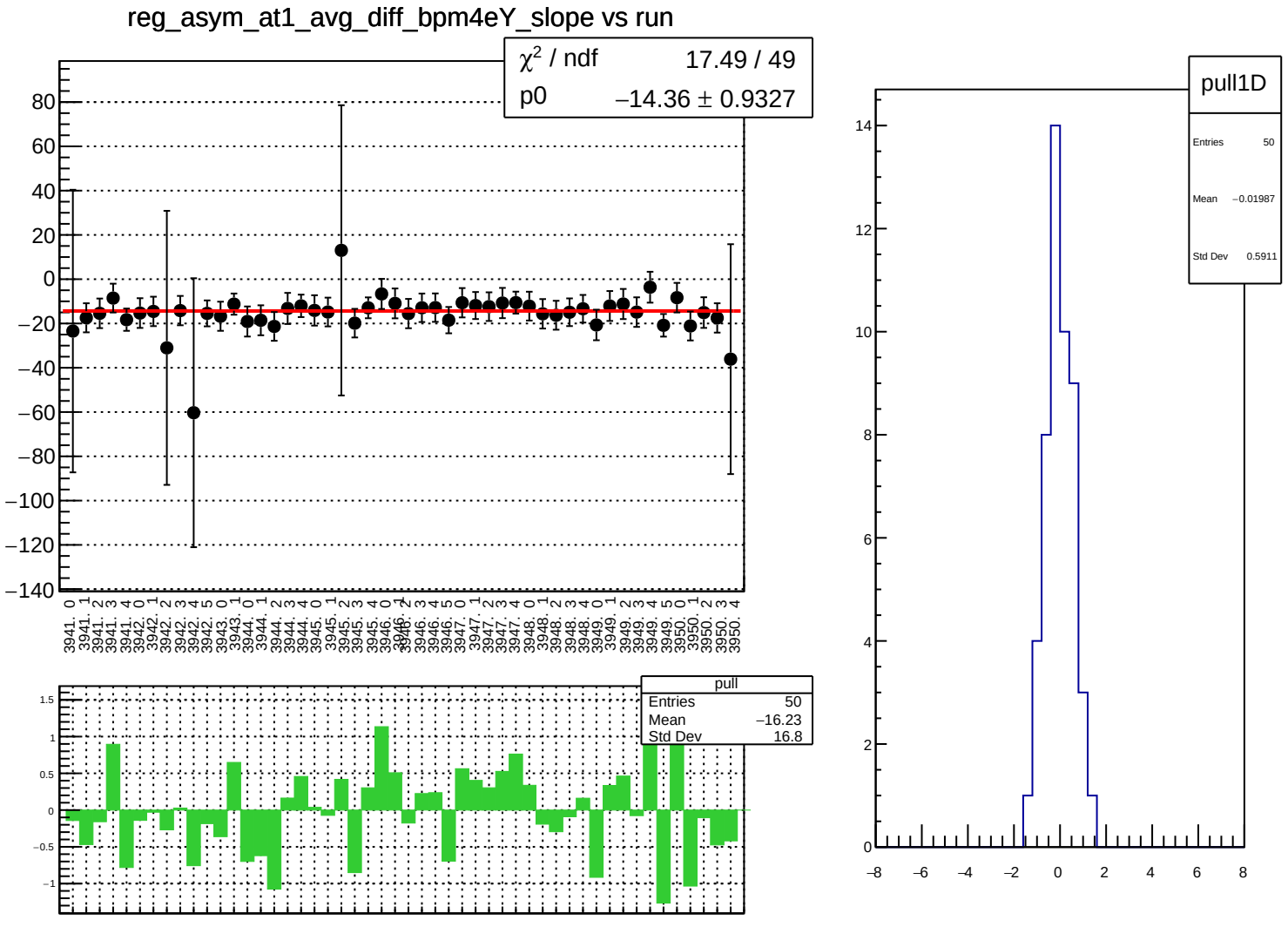

pull1D
Entries 50
Mean −0.05864
Std Dev 1.265

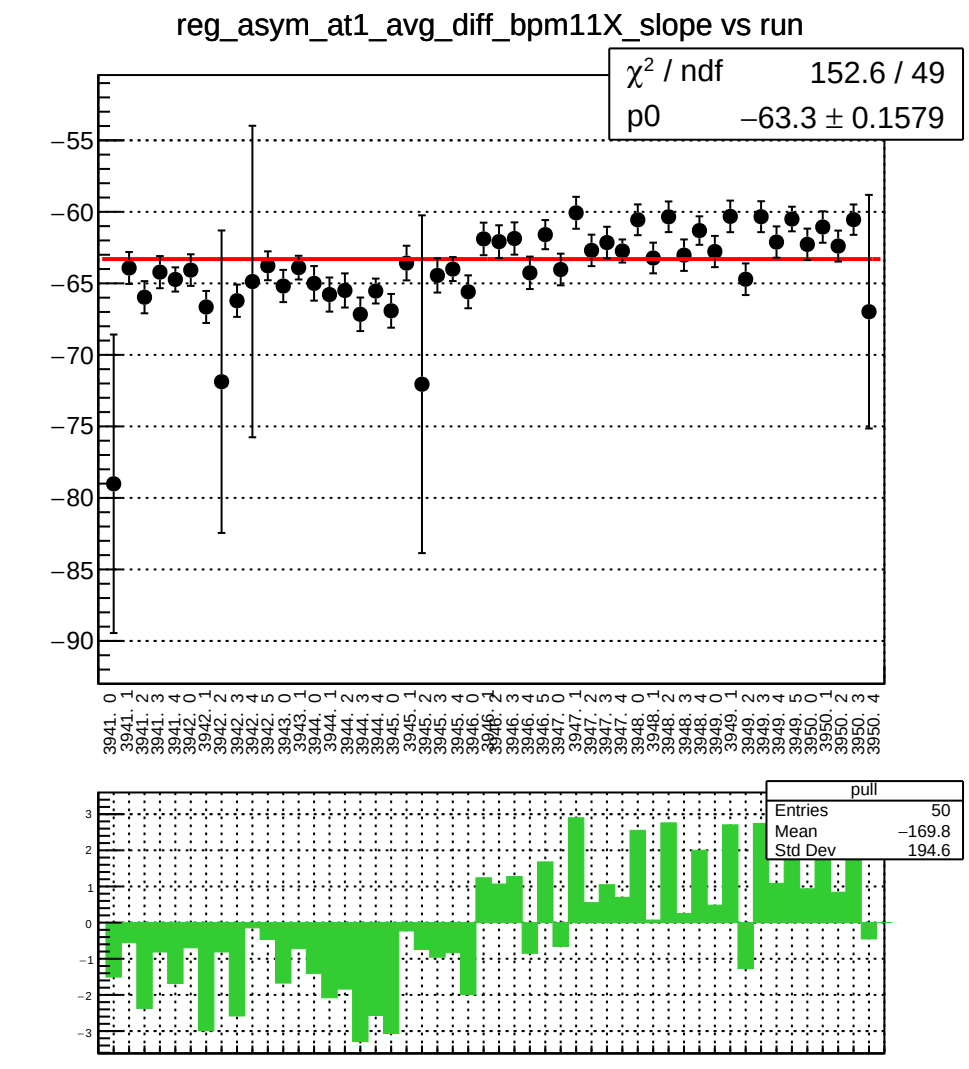

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.77 / 49
p0 12.34 ± 0.5559
pull
Entries 50
Mean −3.731
Std Dev 19.33

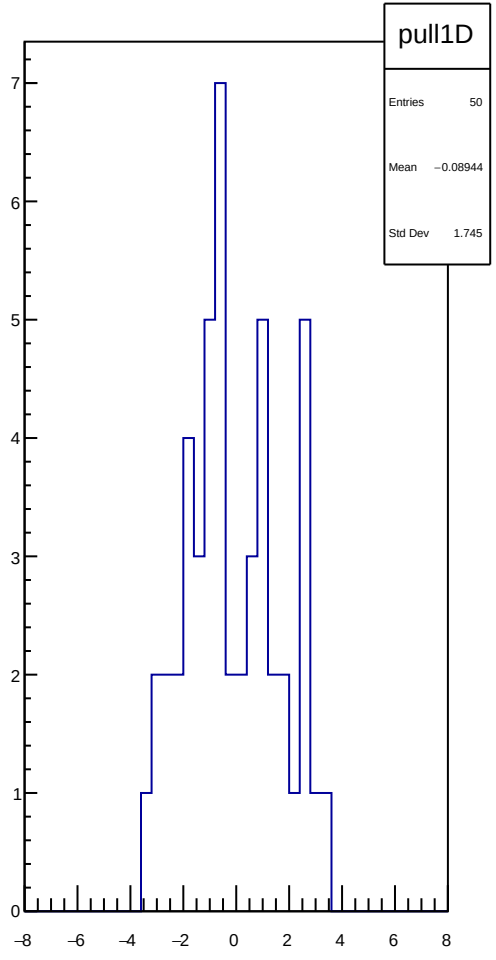

pull1D
Entries 50
Mean 0.02071
Std Dev 0.5958

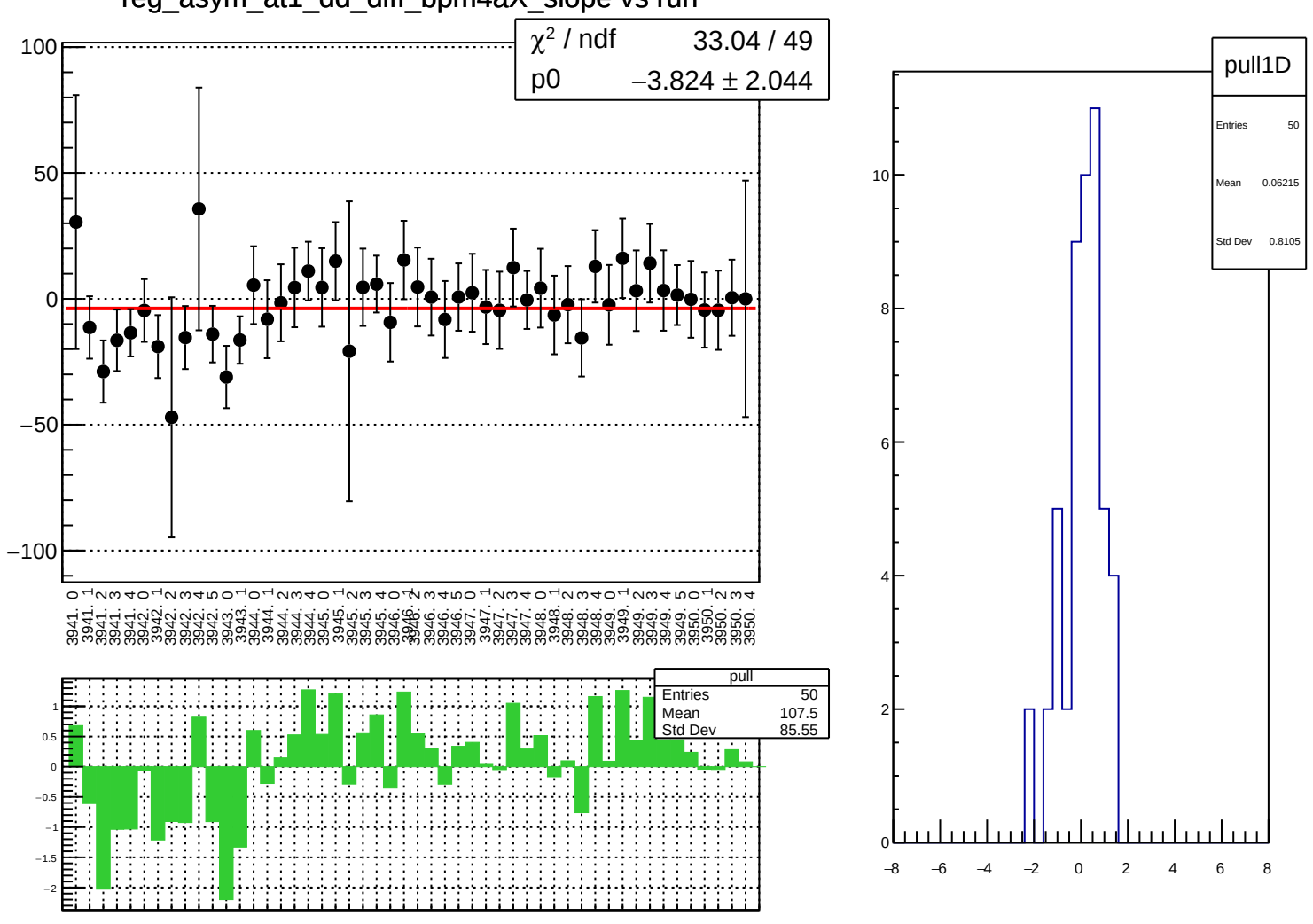

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 436.9 / 49
p0 −39.83 ± 0.1278
pull
Entries 50
Mean 156.1
Std Dev 134.6

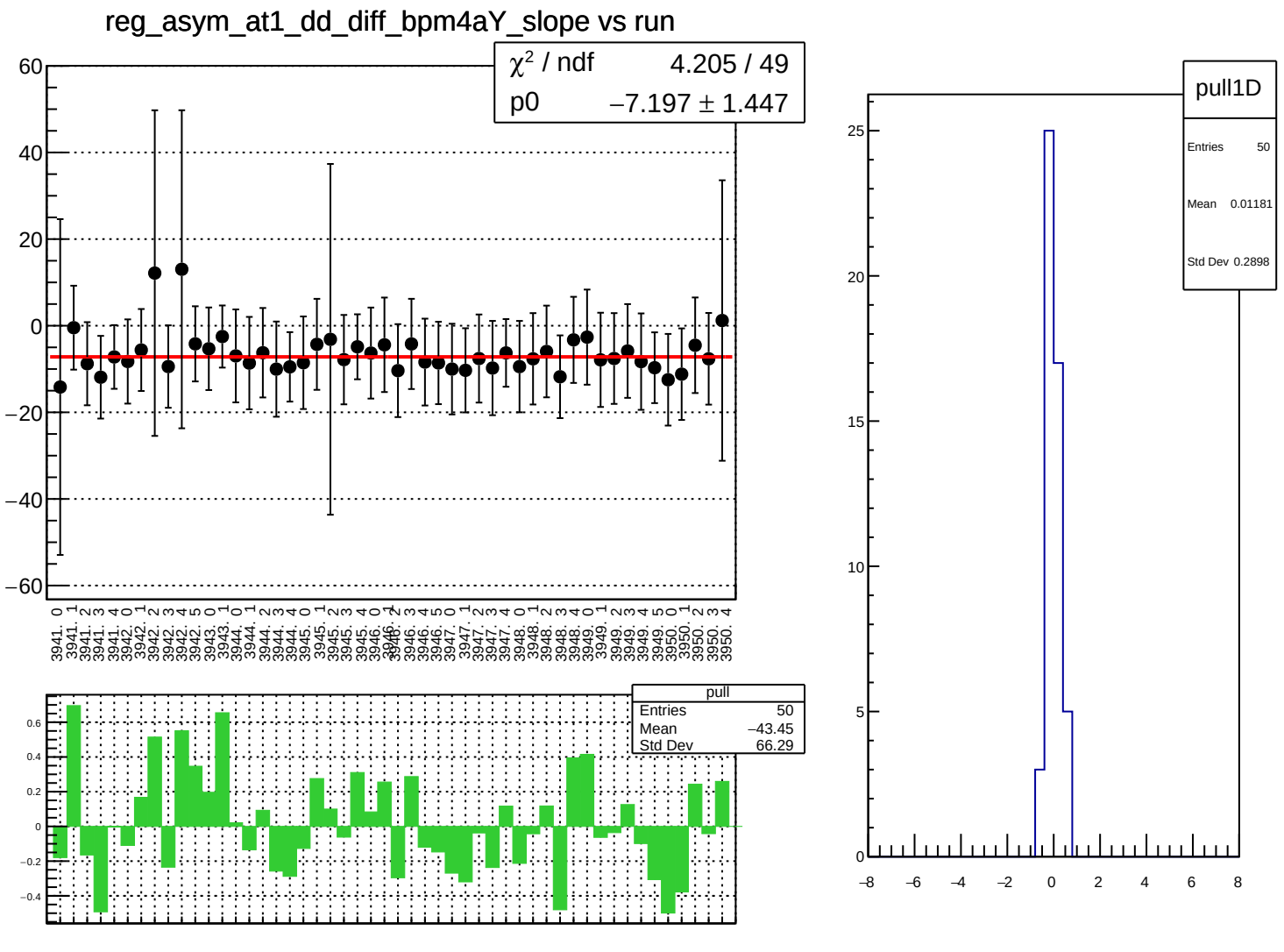

pull1D
Entries 50
Mean 0.2061
Std Dev 2.949

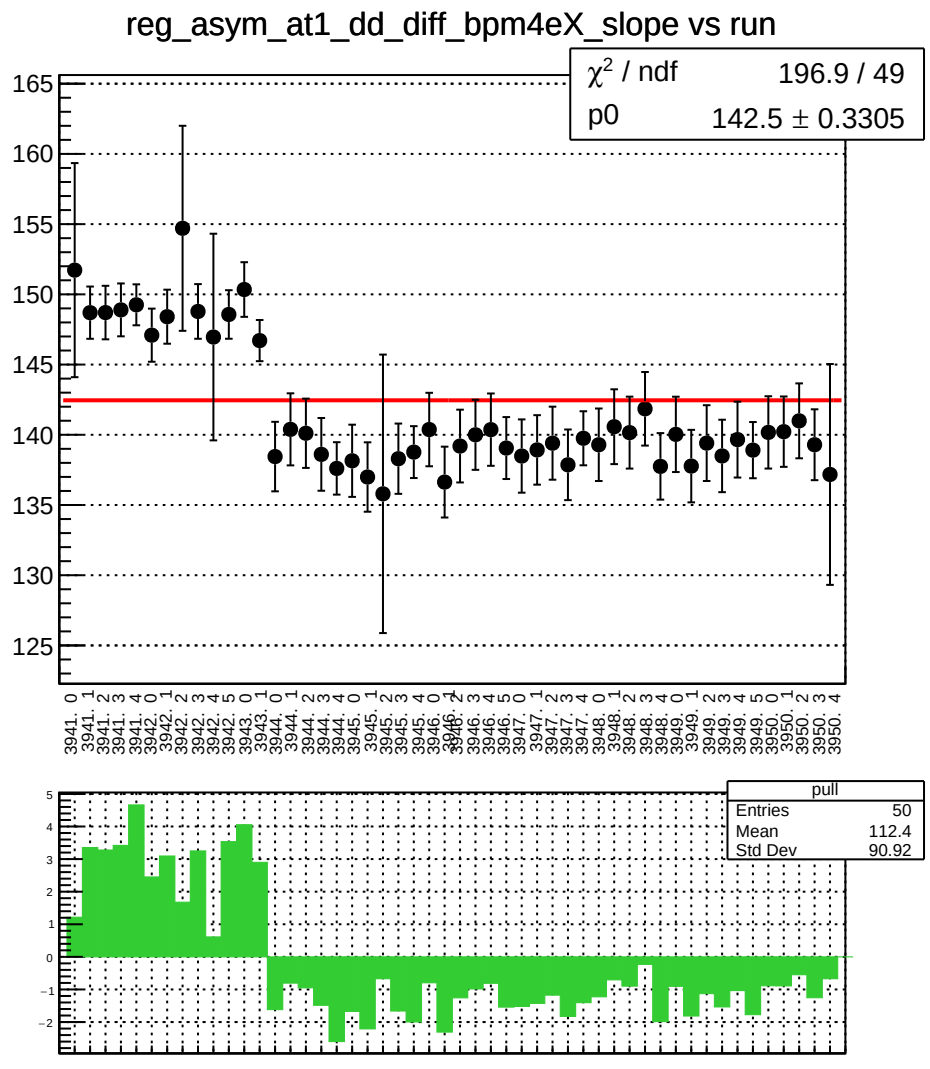

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.49 / 49
p0 −14.36 ± 0.9327
pull
Entries 50
Mean −16.23
Std Dev 16.8
pull1D
Entries 50
Mean −0.01987
Std Dev 0.5911

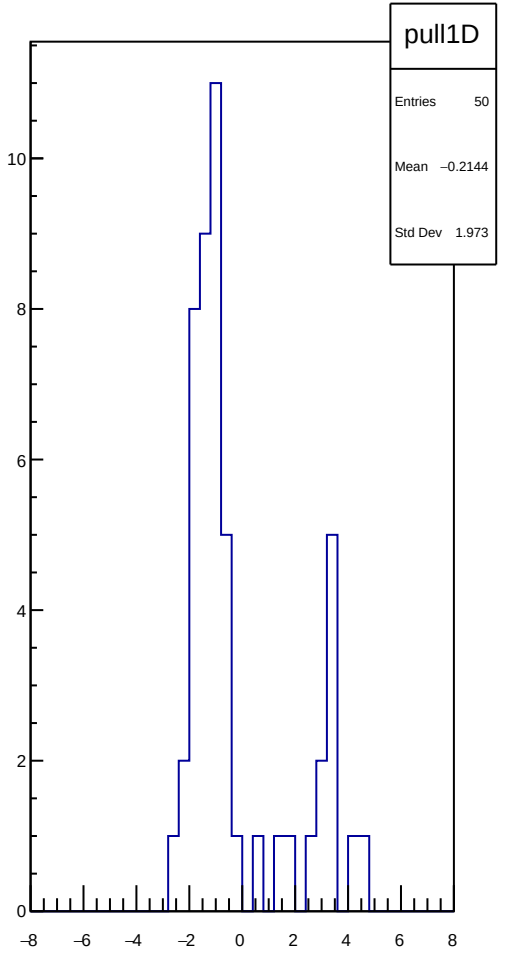

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 152.6 / 49
p0 −63.3 ± 0.1579
pull
Entries 50
Mean −169.8
Std Dev 194.6

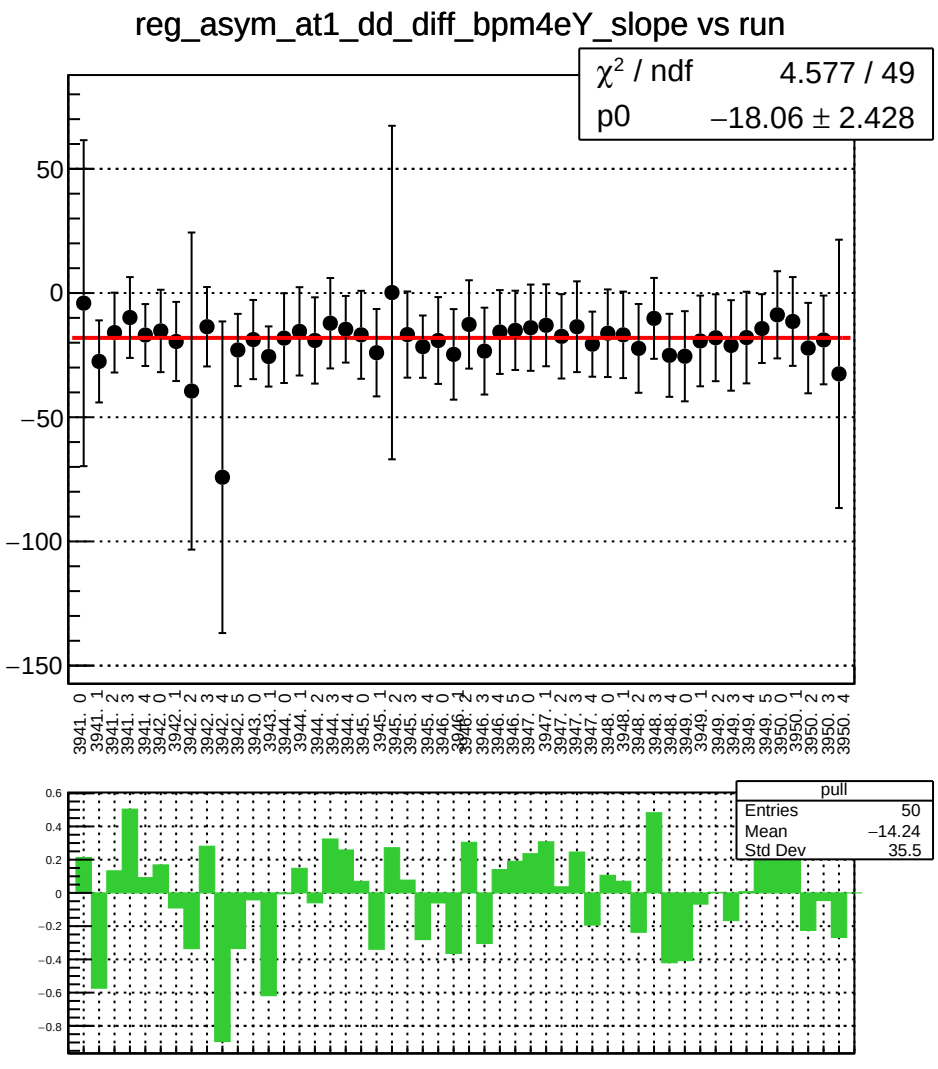

pull1D
Entries 50
Mean −0.08944
Std Dev 1.745

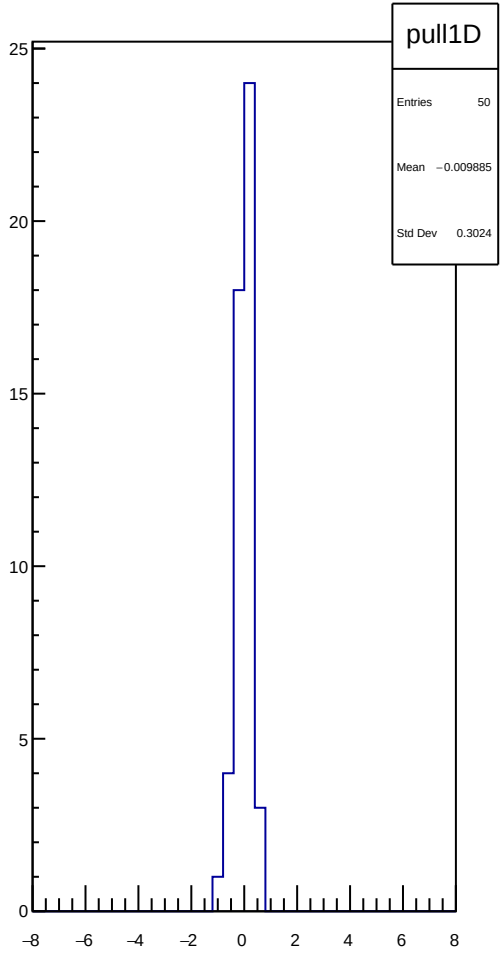

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 33.04 / 49
p0 −3.824 ± 2.044
pull
Entries 50
Mean 107.5
Std Dev 85.55
pull1D
Entries 50
Mean 0.06215
Std Dev 0.8105

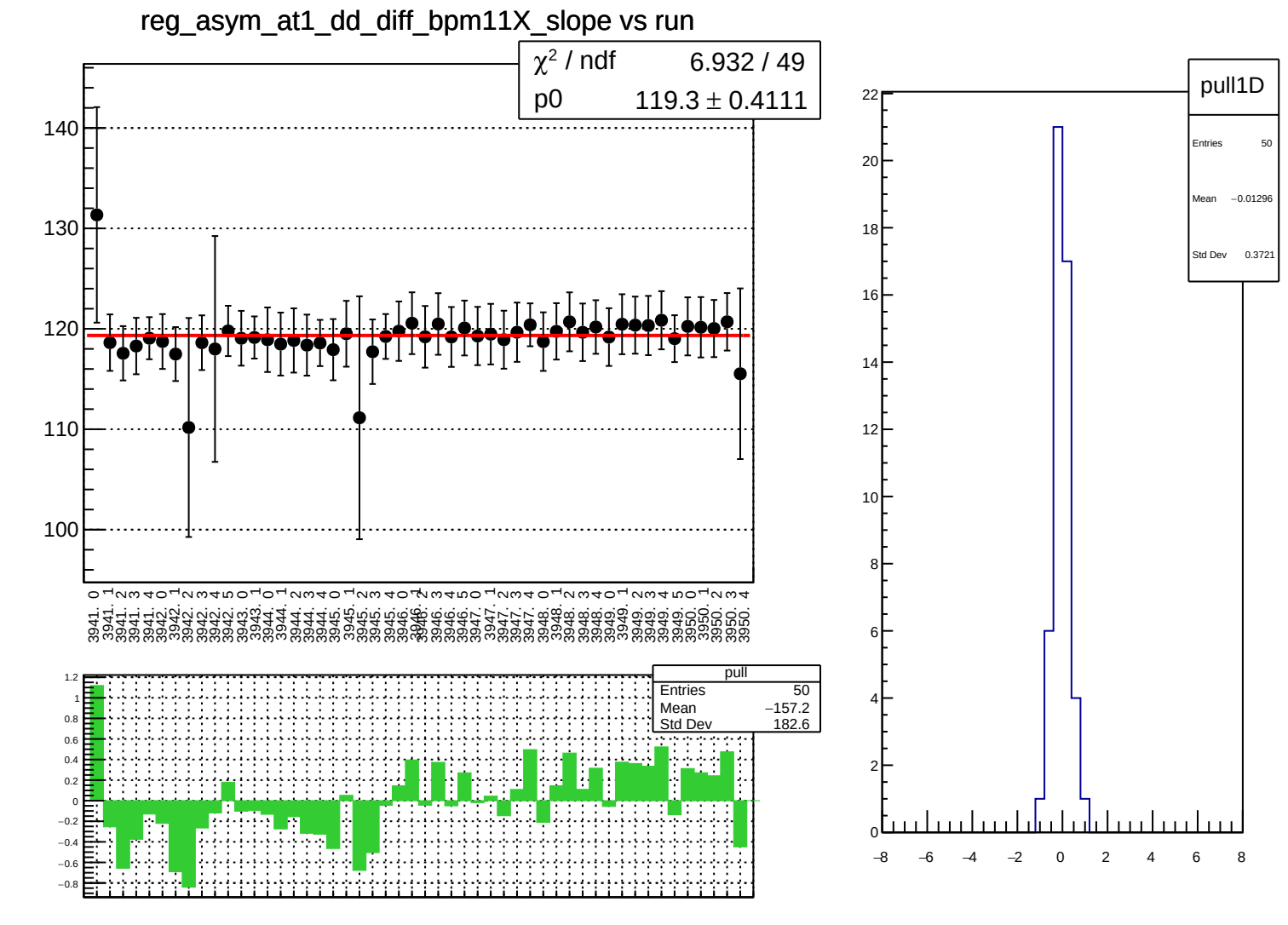

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.205 / 49
p0 −7.197 ± 1.447
pull
Entries 50
Mean −43.45
Std Dev 66.29
pull1D
Entries 50
Mean 0.01181
Std Dev 0.2898

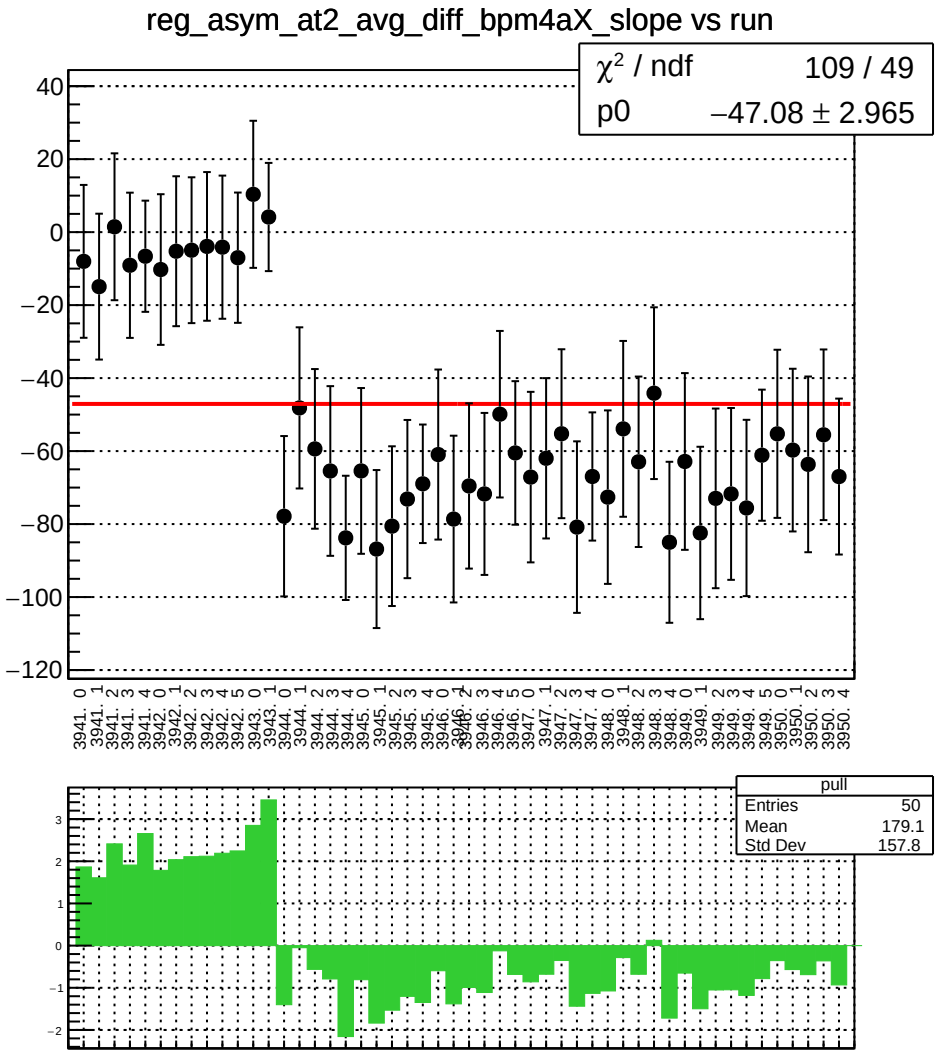

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 196.9 / 49
p0 142.5 ± 0.3305
pull
Entries 50
Mean 112.4
Std Dev 90.92

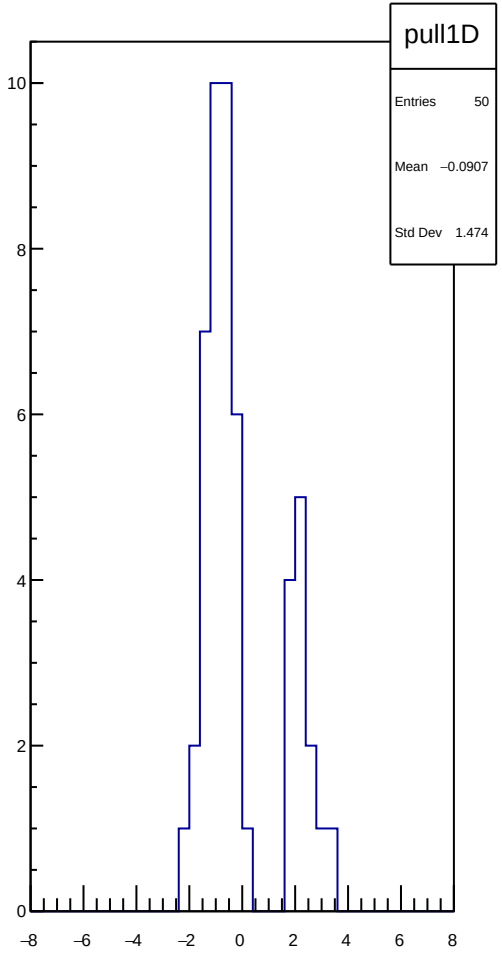

pull1D
Entries 50
Mean −0.2144
Std Dev 1.973

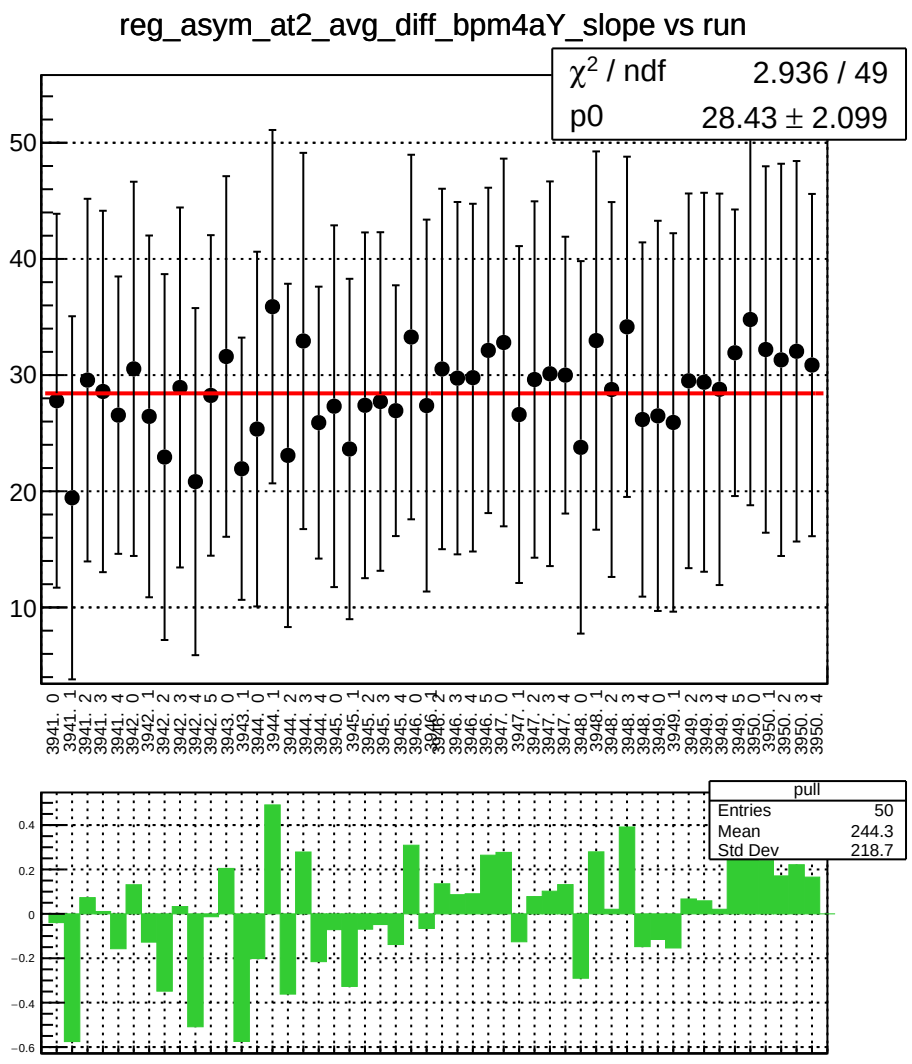

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.577 / 49
p0 −18.06 ± 2.428
50
0
−50
−100
−150
pull
Entries 50
Mean −14.24
Std Dev 35.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

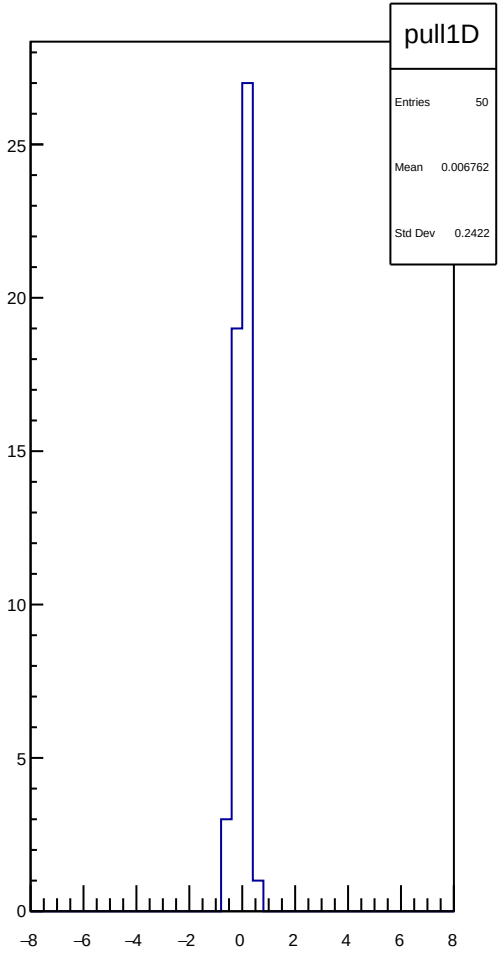

pull1D
Entries 50
Mean −0.009885
Std Dev 0.3024
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

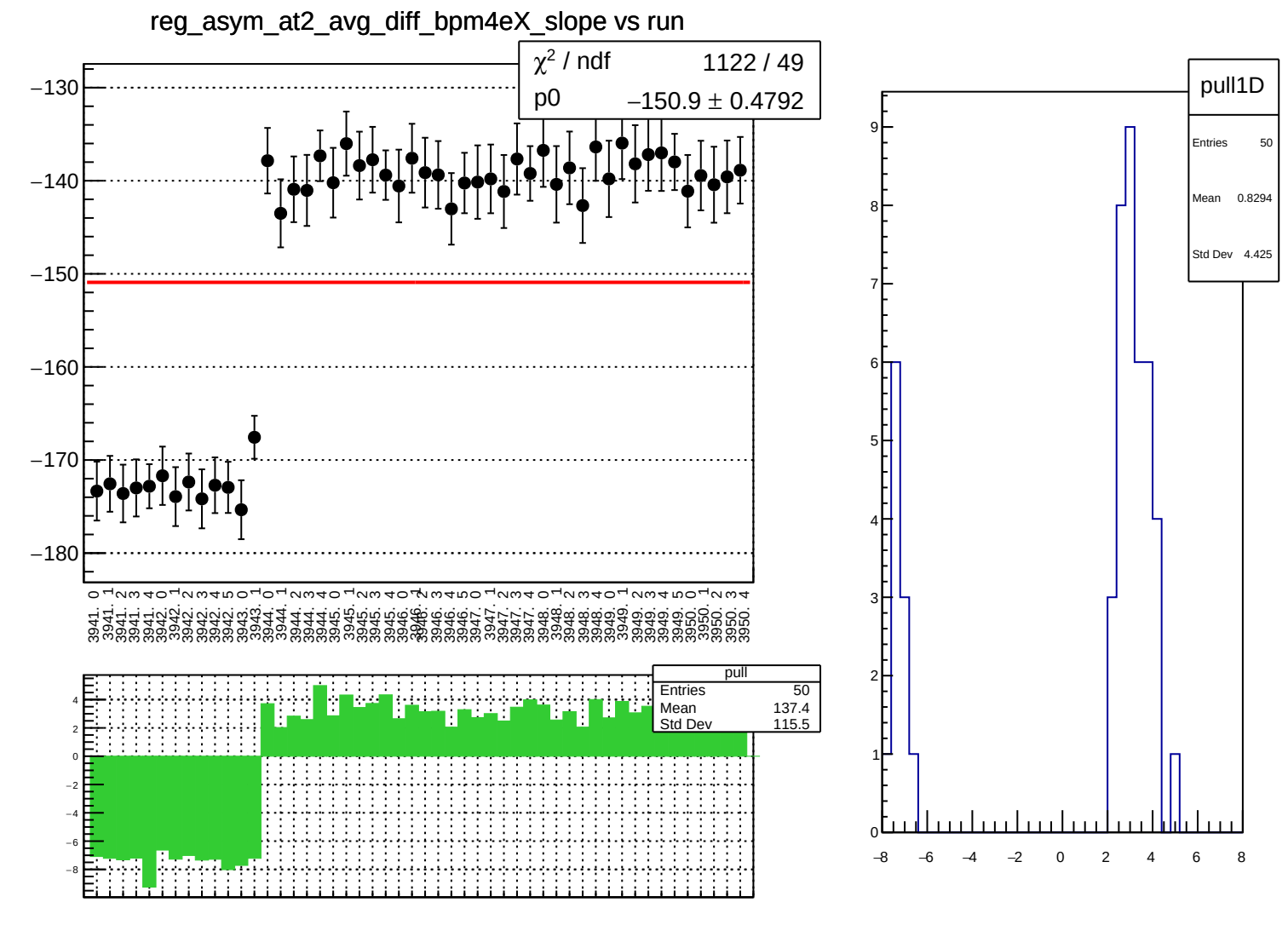

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 6.932 / 49
p0 119.3 ± 0.4111
140
130
120
110
100
pull
Entries 50
Mean −157.2
Std Dev 182.6
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 50
Mean −0.01296
Std Dev 0.3721
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

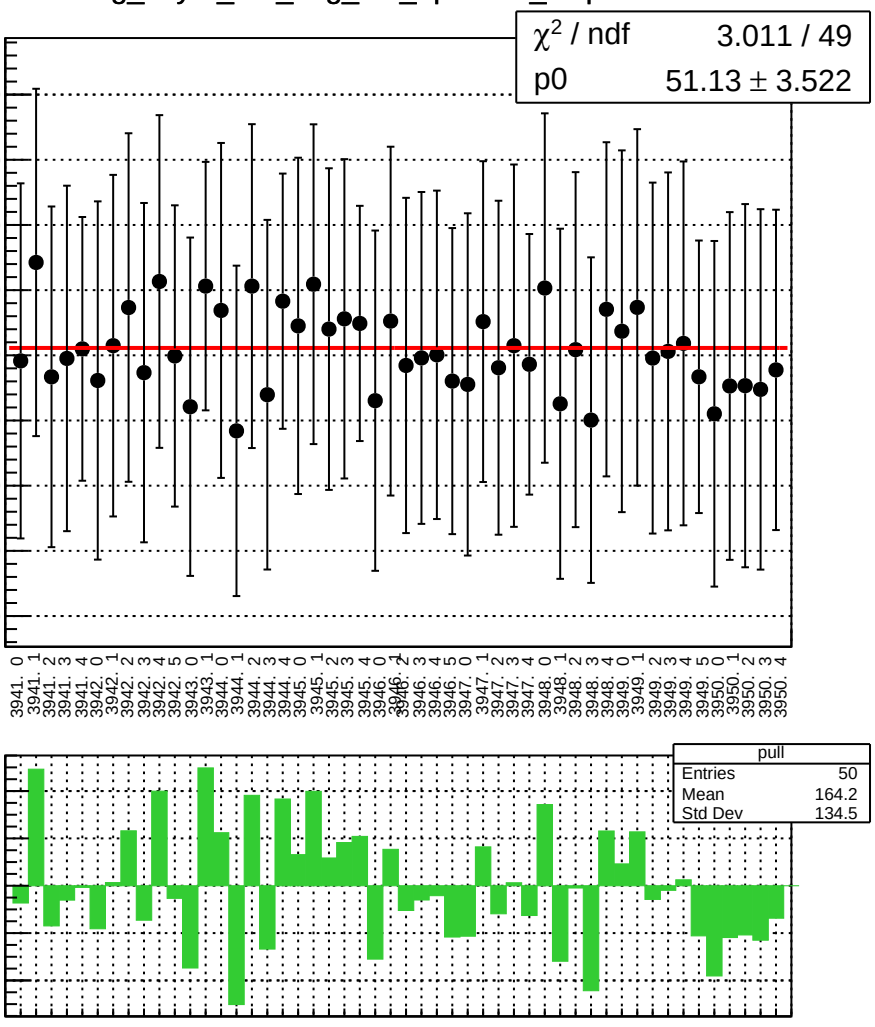

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 109 / 49
p0 −47.08 ± 2.965
pull
Entries 50
Mean 179.1
Std Dev 157.8

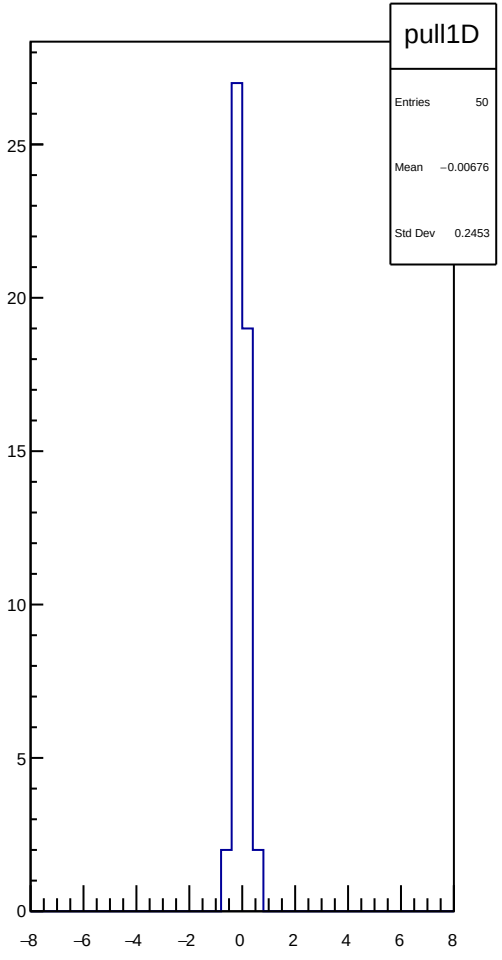

pull1D
Entries 50
Mean −0.0907
Std Dev 1.474

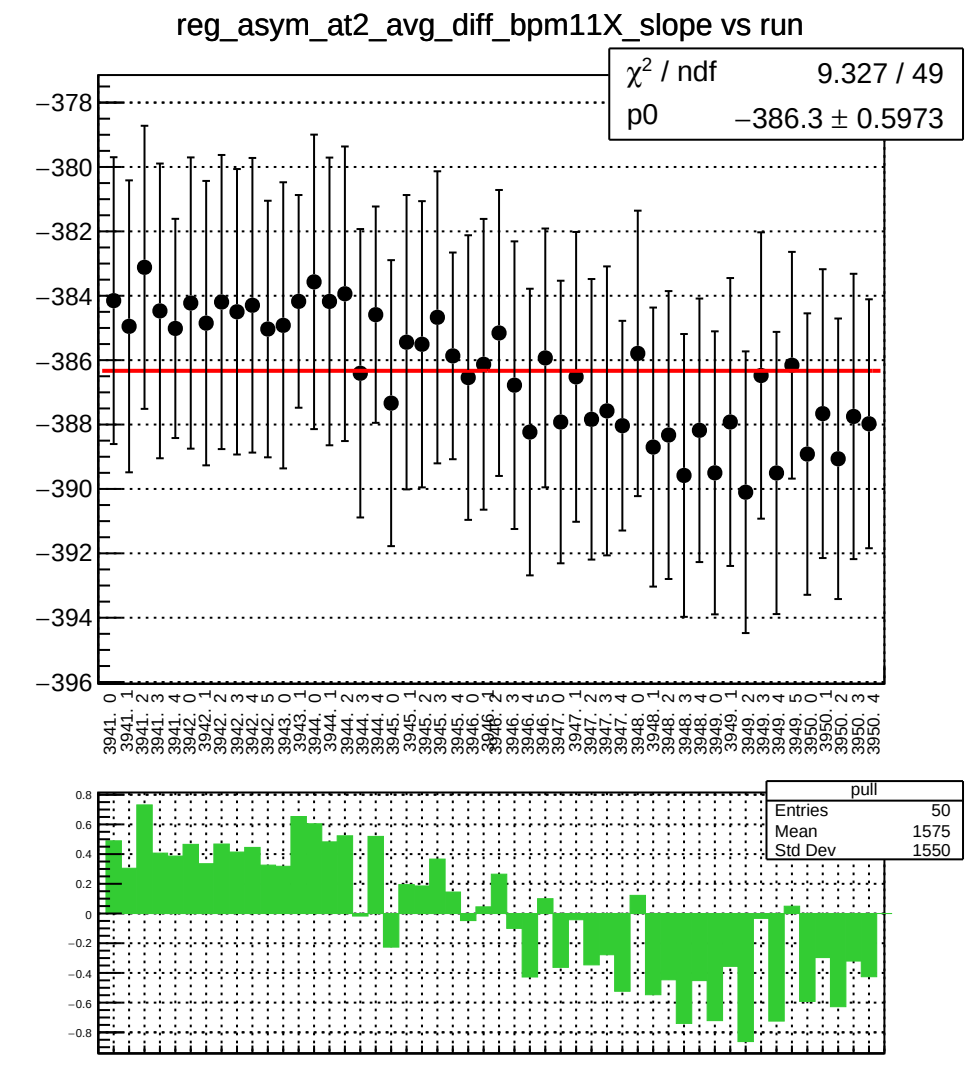

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.936 / 49
p0 28.43 ± 2.099
pull
Entries 50
Mean 244.3
Std Dev 218.7

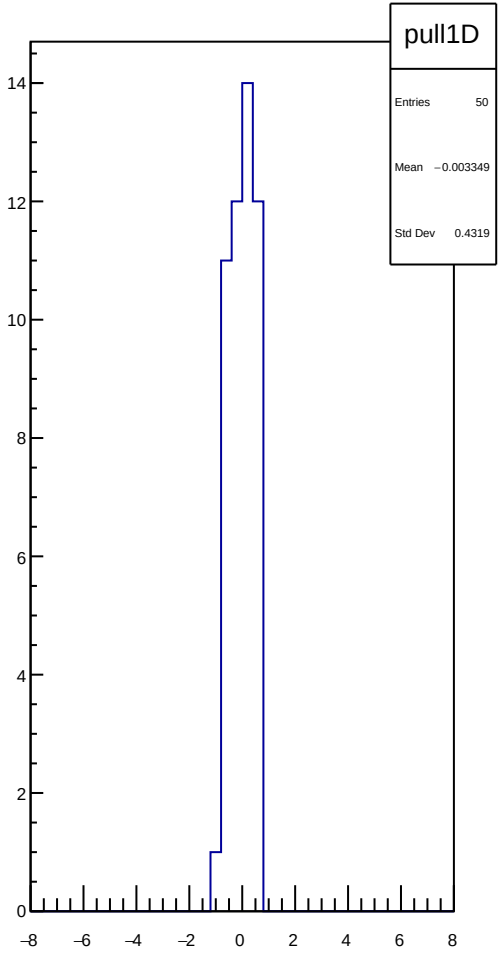

pull1D
Entries 50
Mean 0.006762
Std Dev 0.2422

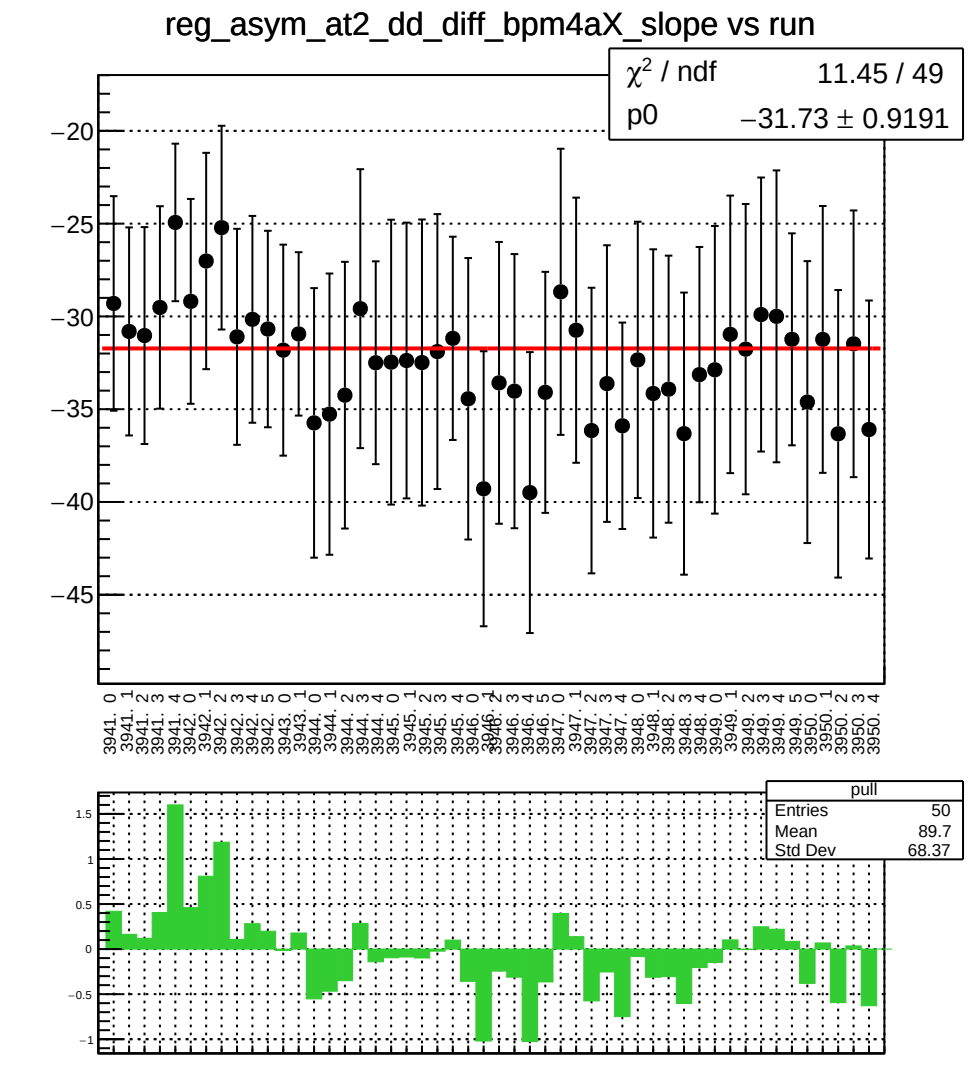

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1122 / 49
p0 −150.9 ± 0.4792
pull
Entries 50
Mean 137.4
Std Dev 115.5
pull1D
Entries 50
Mean 0.8294
Std Dev 4.425

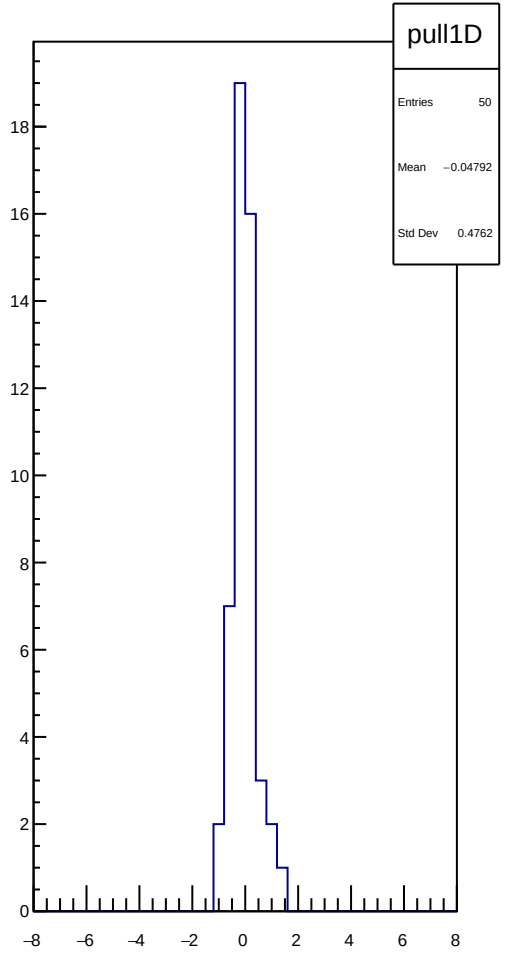

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.011 / 49
p0 51.13 ± 3.522
pull
Entries 50
Mean 164.2
Std Dev 134.5

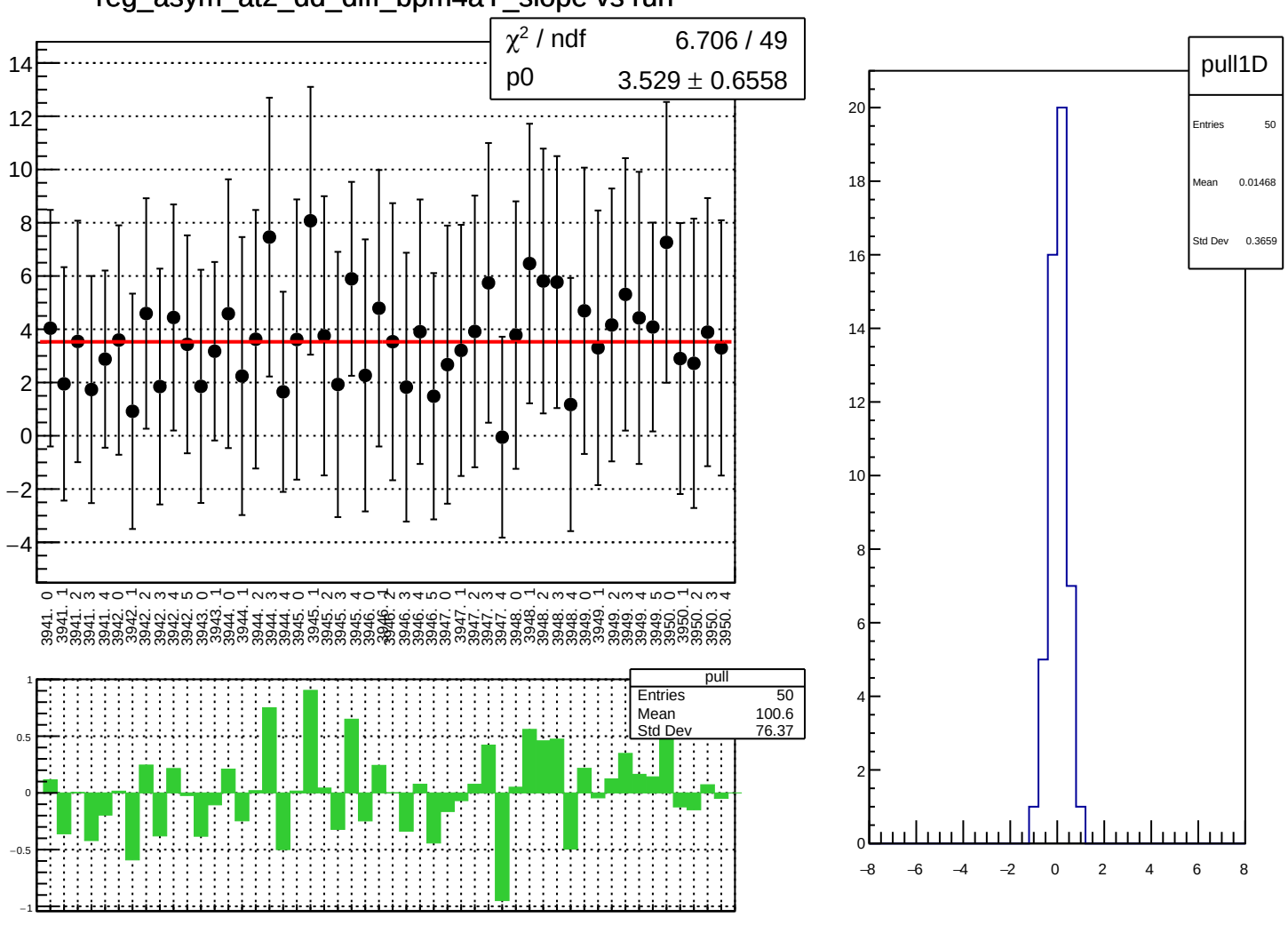

pull1D
Entries 50
Mean −0.00676
Std Dev 0.2453

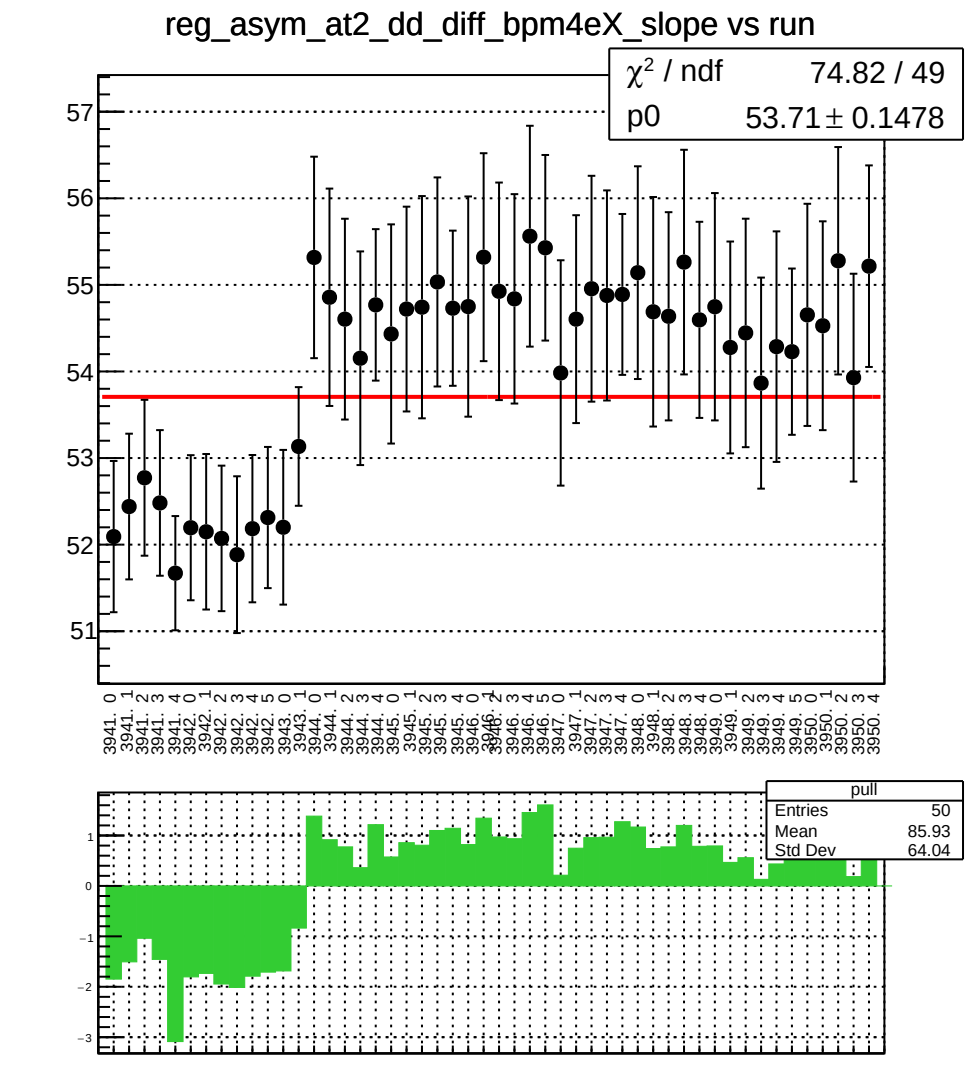

reg_asym_at2_avg_diff_bpm11X_slope vs run
$\chi^2$ / ndf 9.327 / 49
p0 −386.3 ± 0.5973
pull
Entries 50
Mean 1575
Std Dev 1550

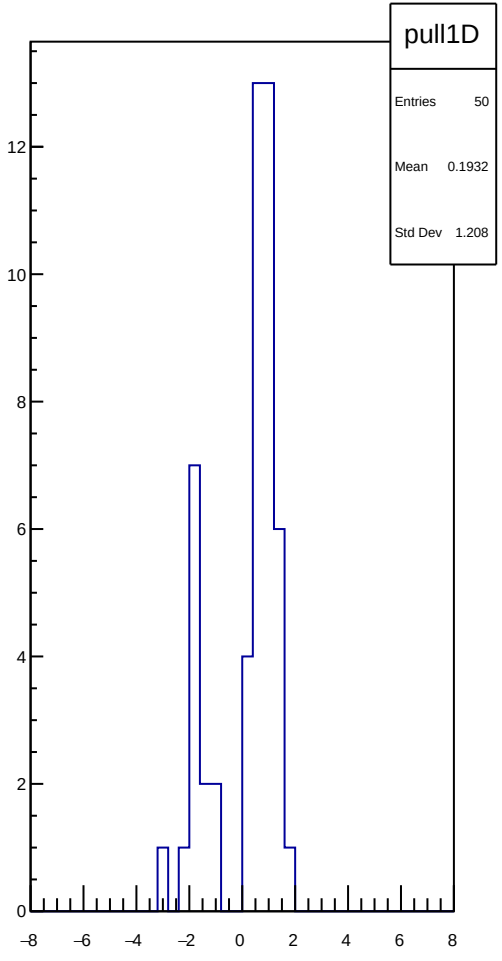

pull1D
Entries 50
Mean −0.003349
Std Dev 0.4319

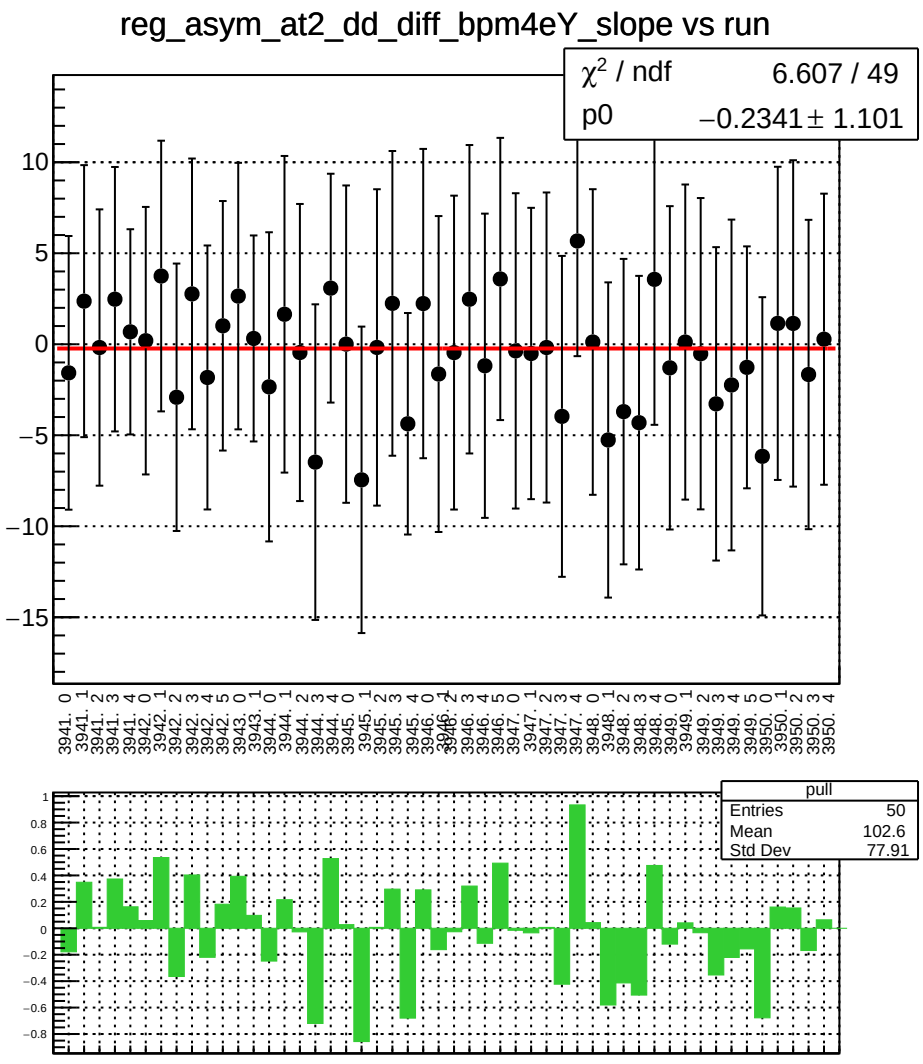

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.45 / 49
p0 −31.73 ± 0.9191
pull
Entries 50
Mean 89.7
Std Dev 68.37

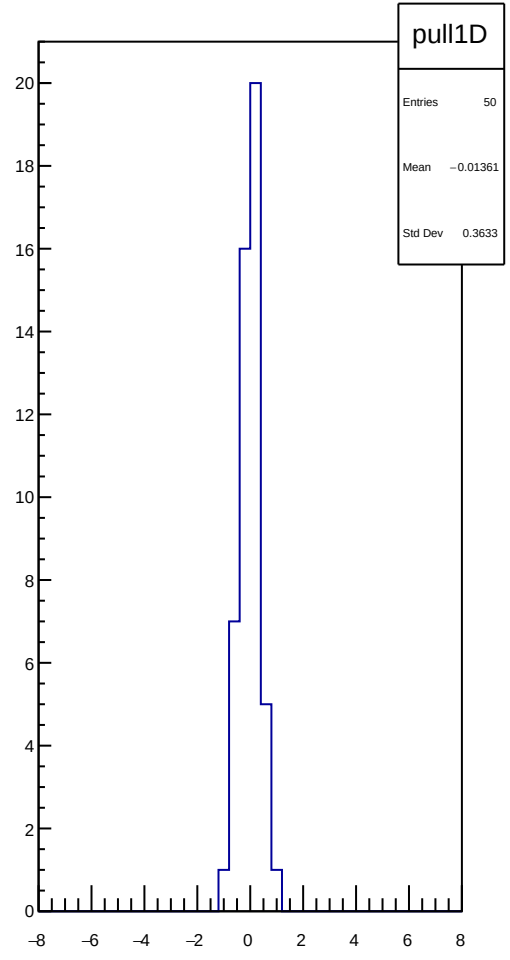

pull1D
Entries 50
Mean −0.04792
Std Dev 0.4762

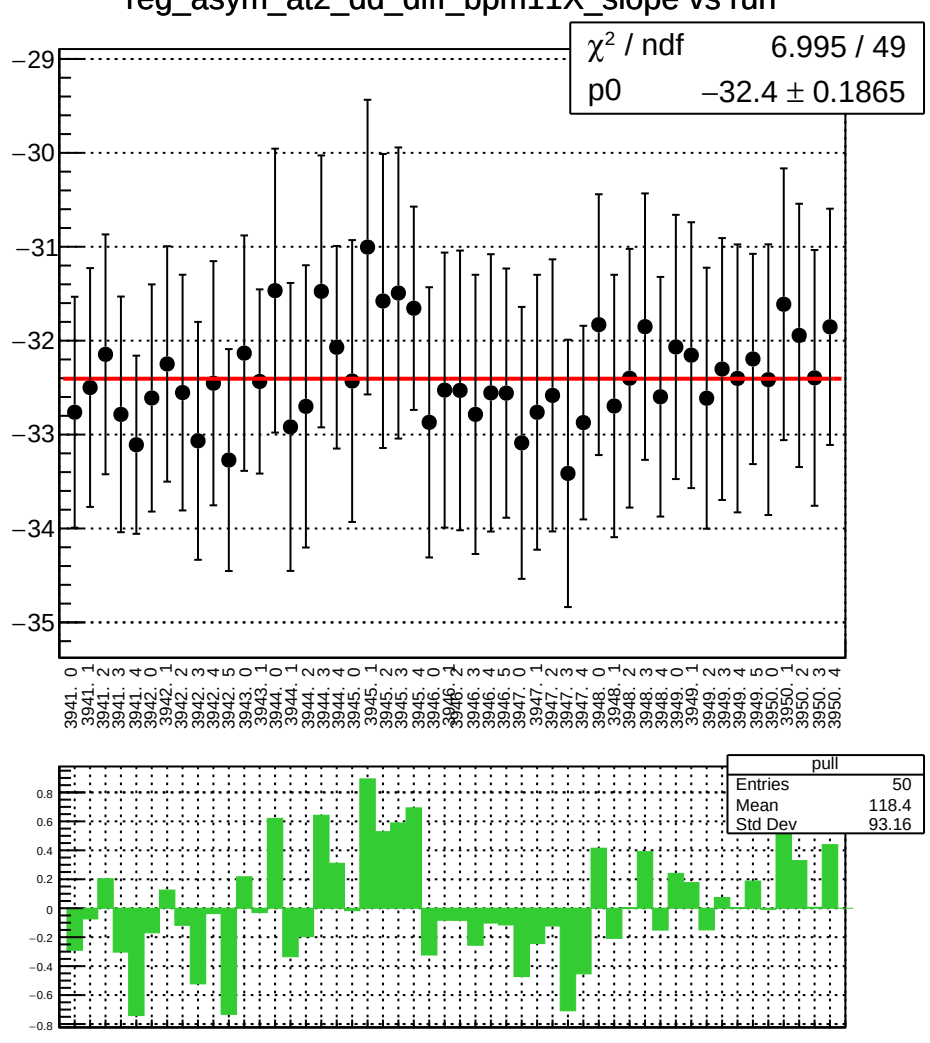

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.706 / 49
p0 3.529 ± 0.6558
pull
Entries 50
Mean 100.6
Std Dev 76.37
pull1D
Entries 50
Mean 0.01468
Std Dev 0.3659

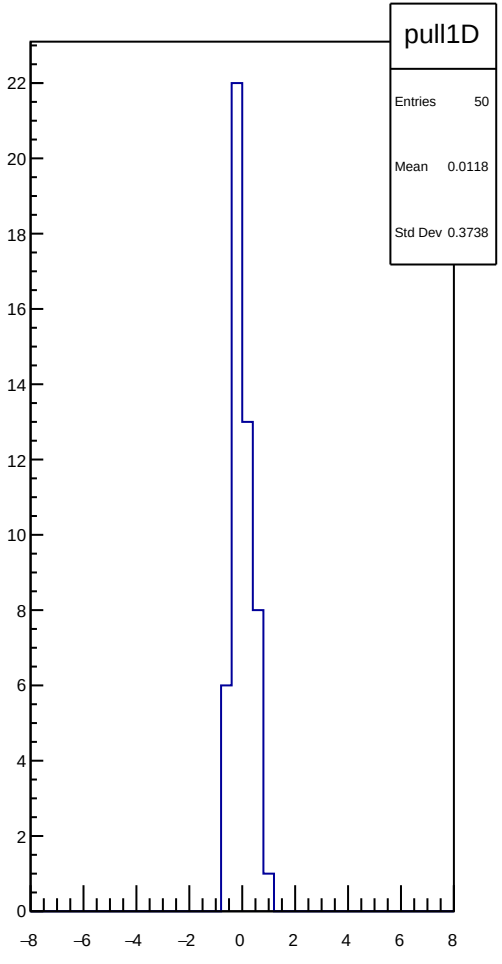

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.82 / 49
p0 53.71 ± 0.1478
pull
Entries 50
Mean 85.93
Std Dev 64.04

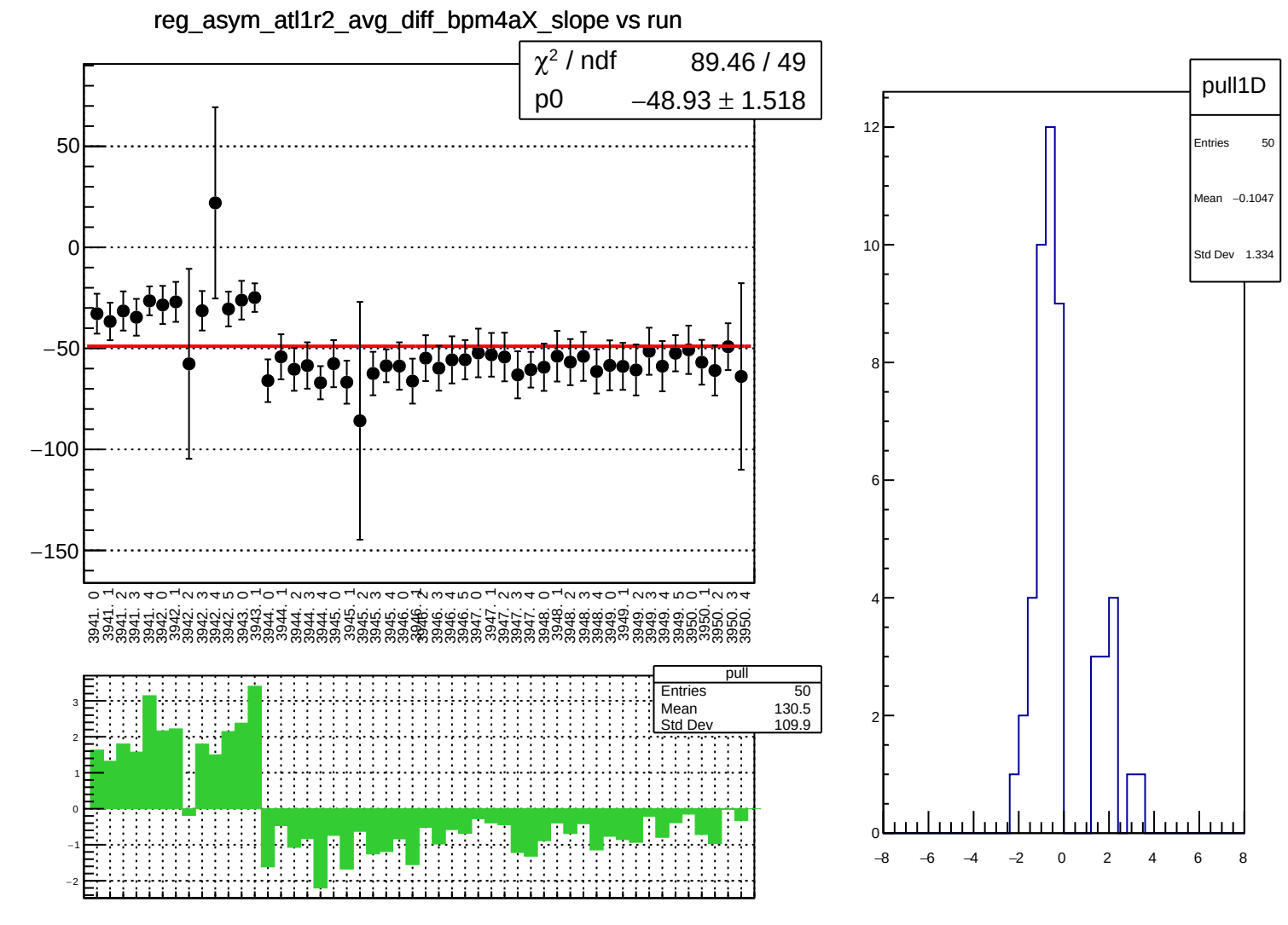

pull1D
Entries 50
Mean 0.1932
Std Dev 1.208

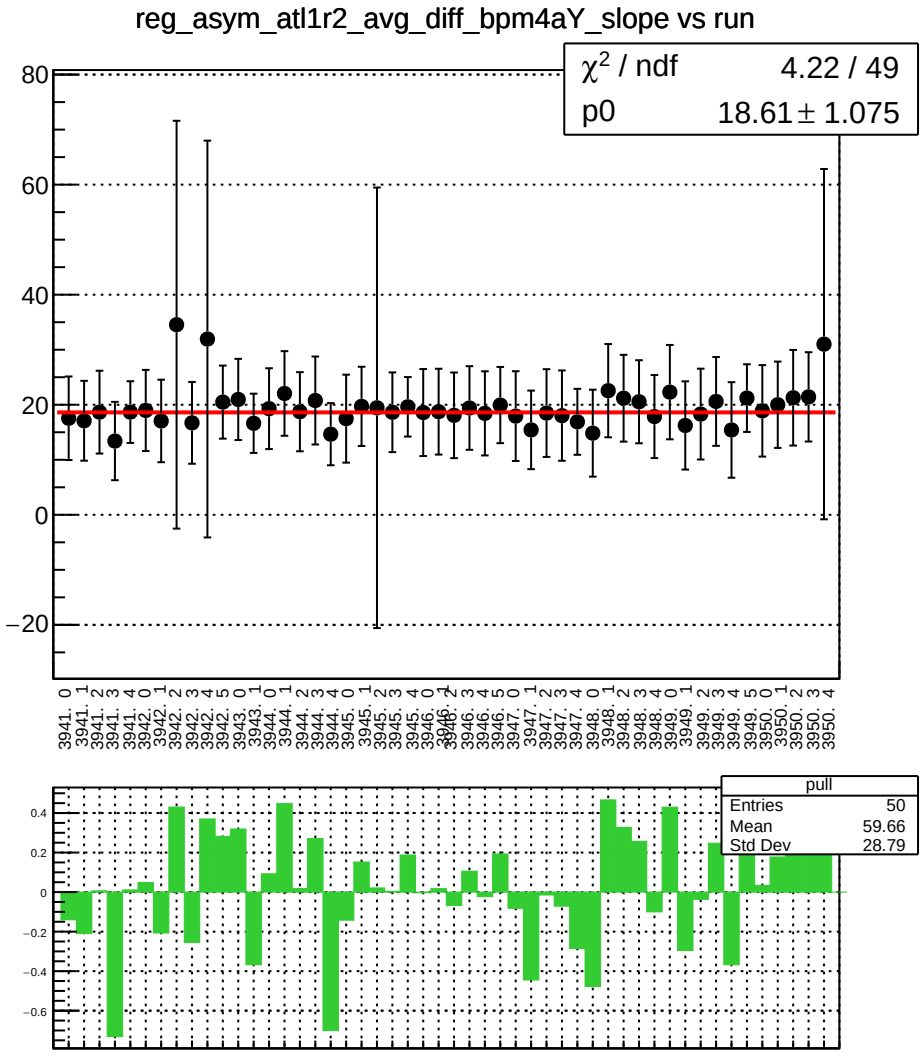

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.607 / 49
p0 −0.2341 ± 1.101
pull
Entries 50
Mean 102.6
Std Dev 77.91

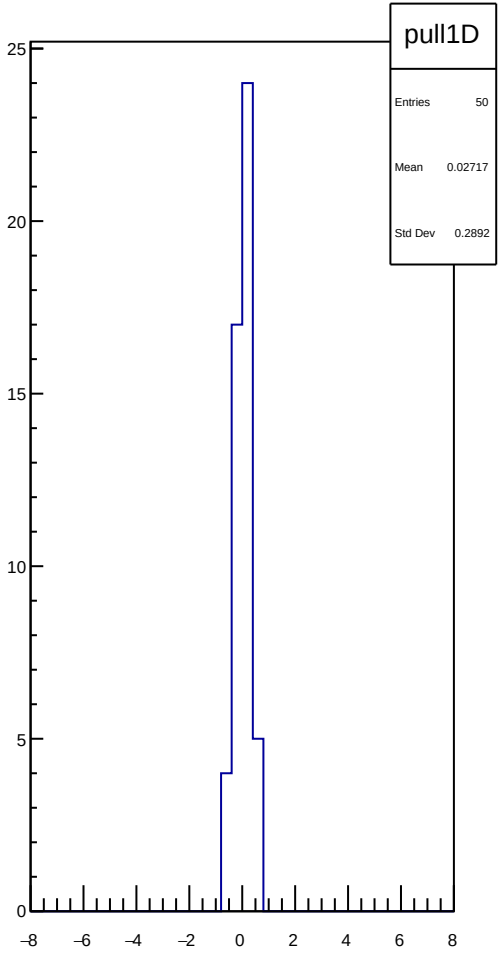

pull1D
Entries 50
Mean −0.01361
Std Dev 0.3633

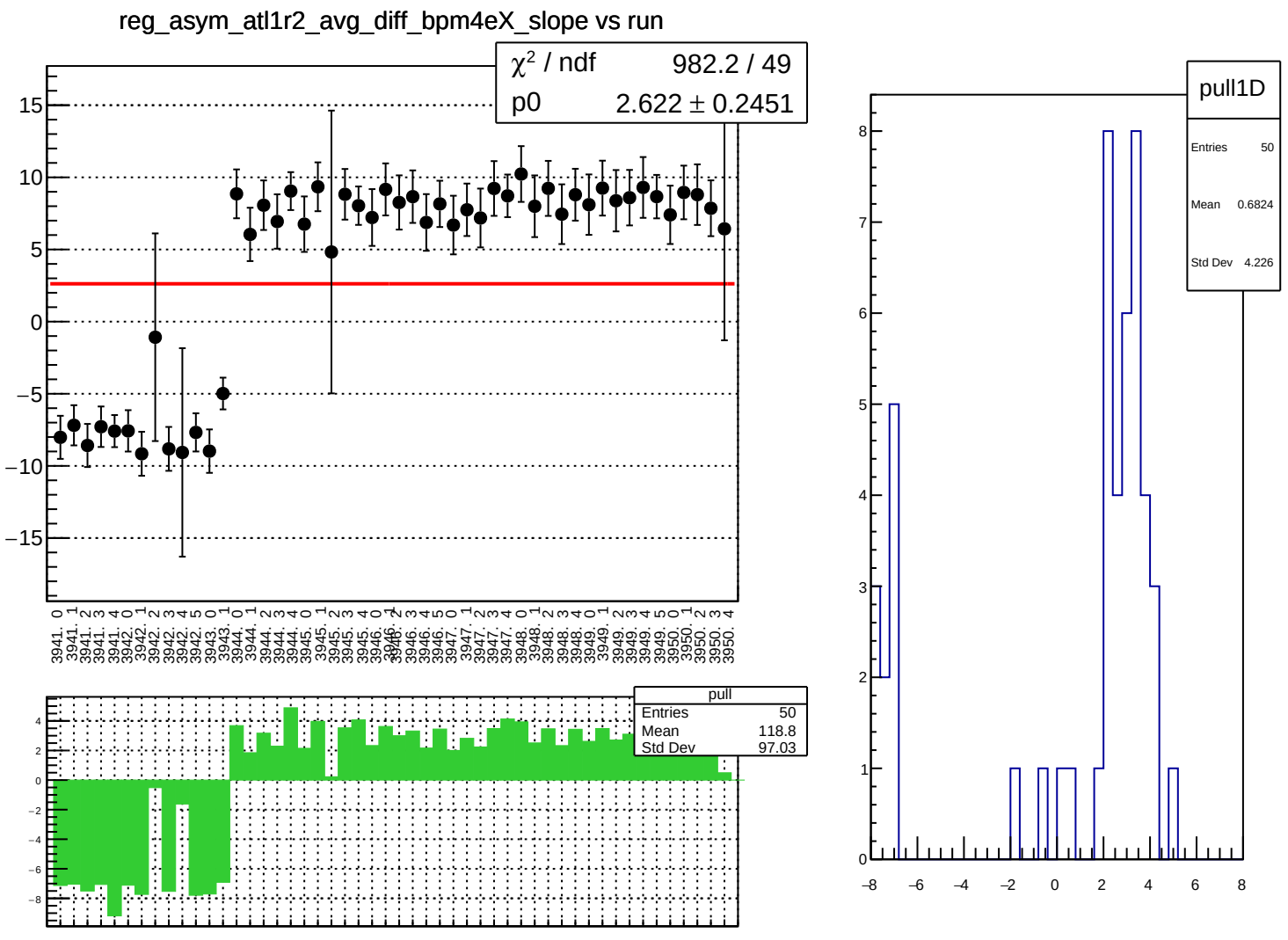

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 6.995 / 49
p0 −32.4 ± 0.1865
pull
Entries 50
Mean 118.4
Std Dev 93.16

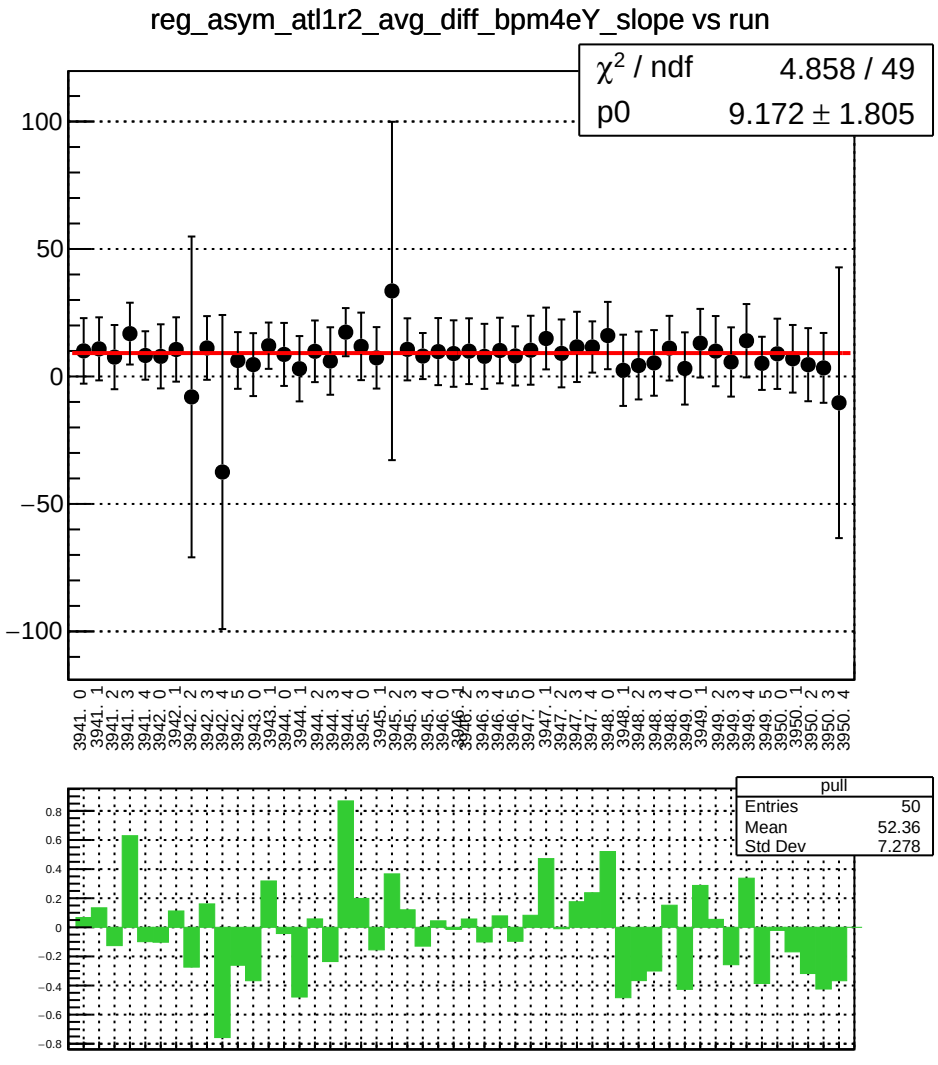

pull1D
Entries 50
Mean 0.0118
Std Dev 0.3738

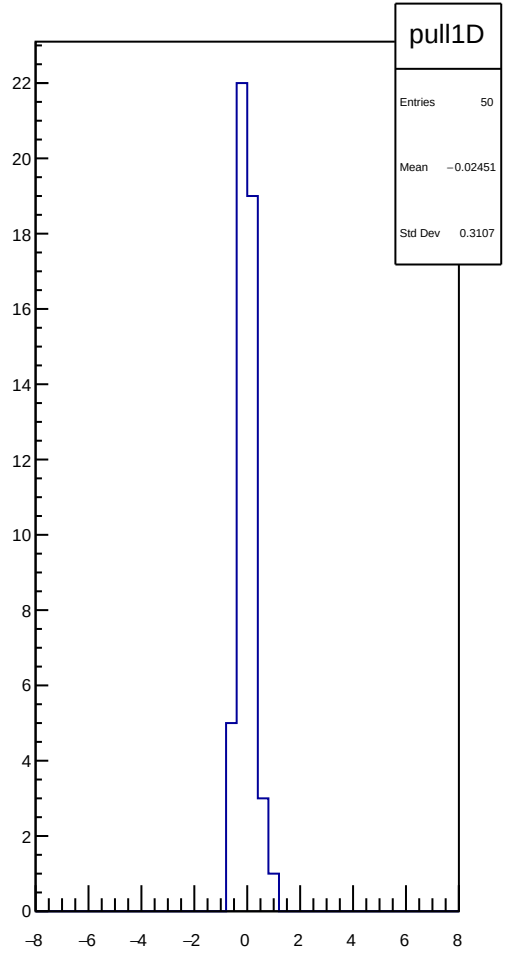

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 89.46 / 49
p0 −48.93 ± 1.518
50
0
−50
−100
−150
pull
Entries 50
Mean 130.5
Std Dev 109.9
pull1D
Entries 50
Mean −0.1047
Std Dev 1.334

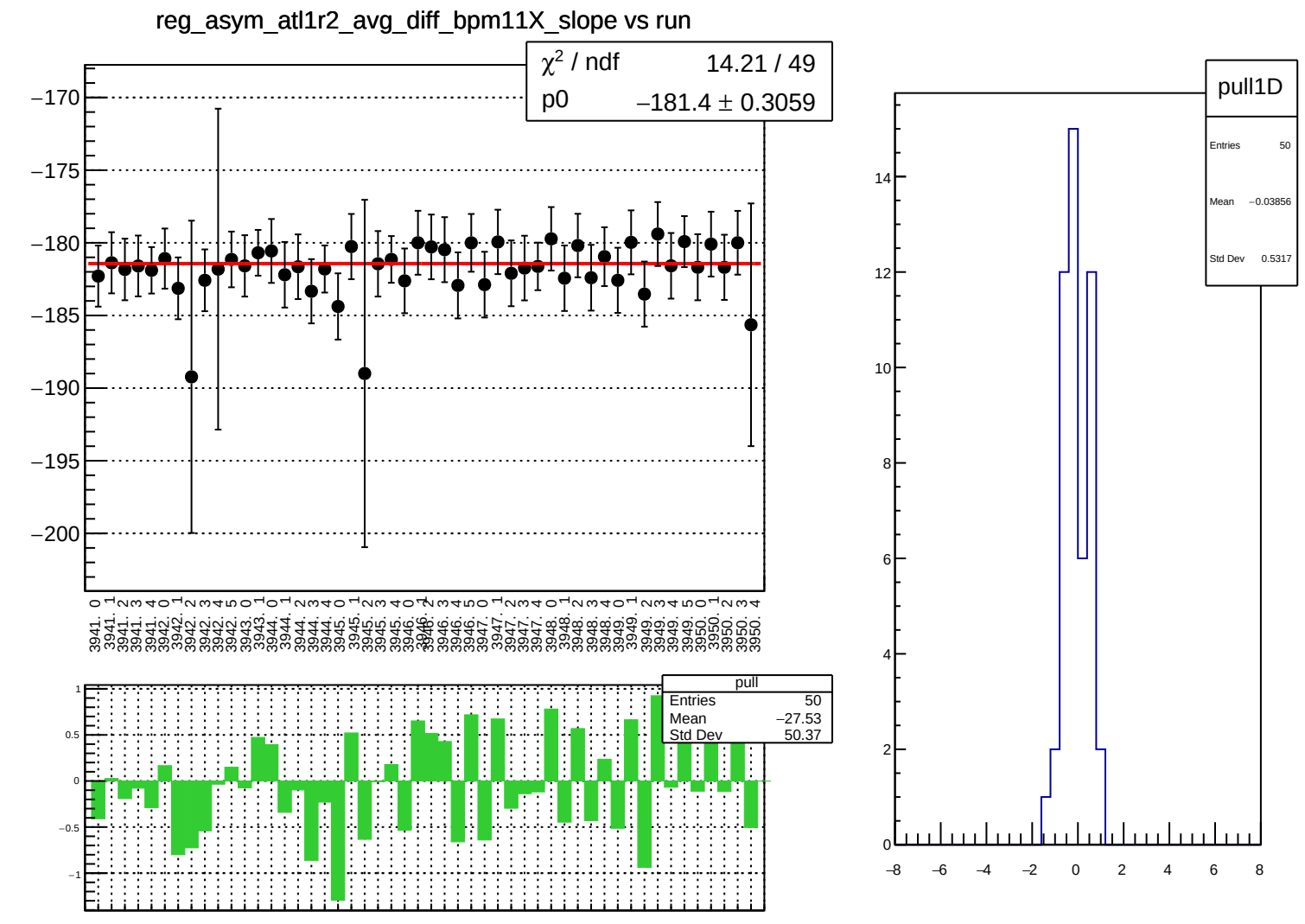

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.22 / 49
p0 18.61 ± 1.075
pull
Entries 50
Mean 59.66
Std Dev 28.79

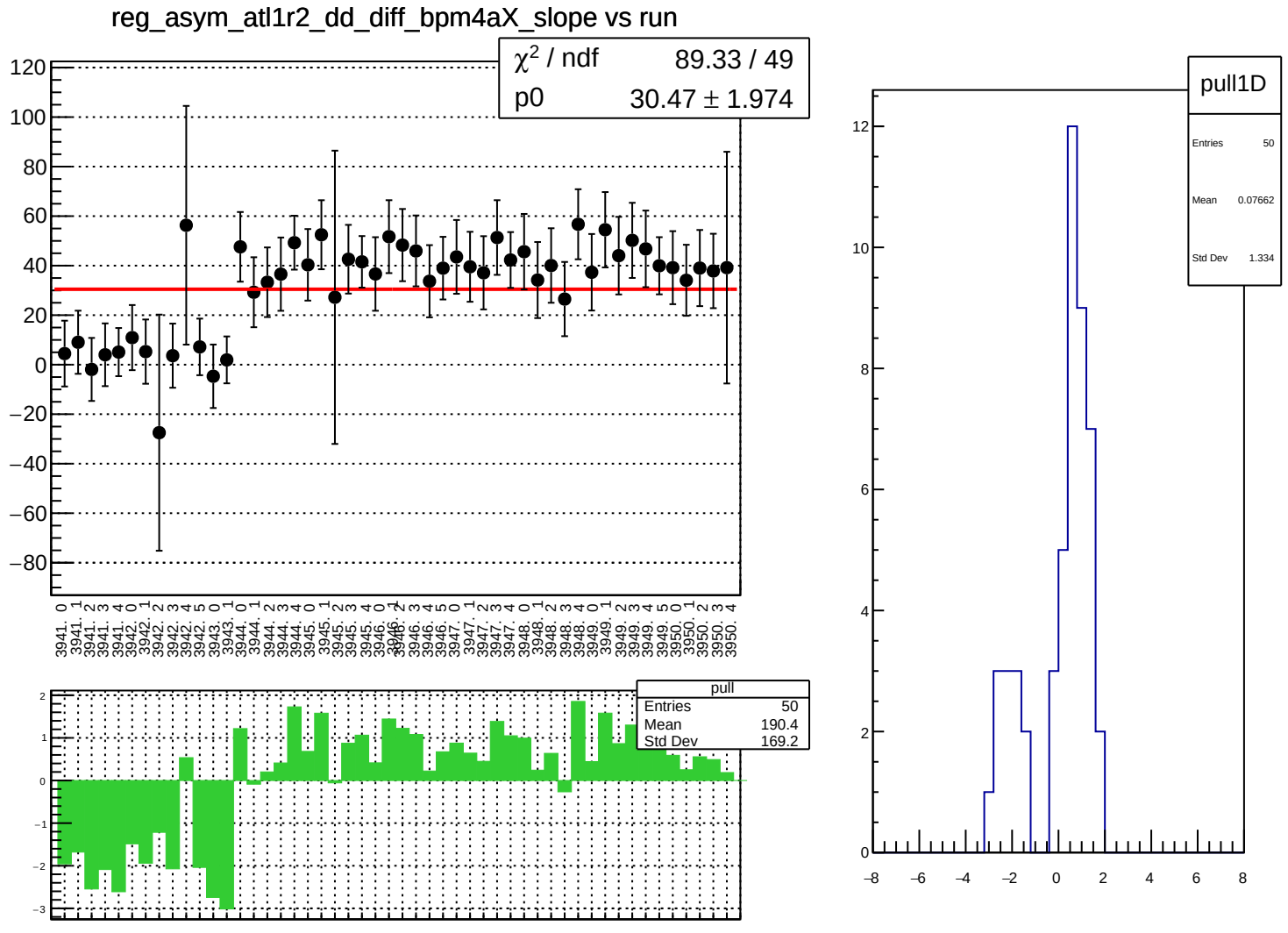

pull1D
Entries 50
Mean 0.02717
Std Dev 0.2892

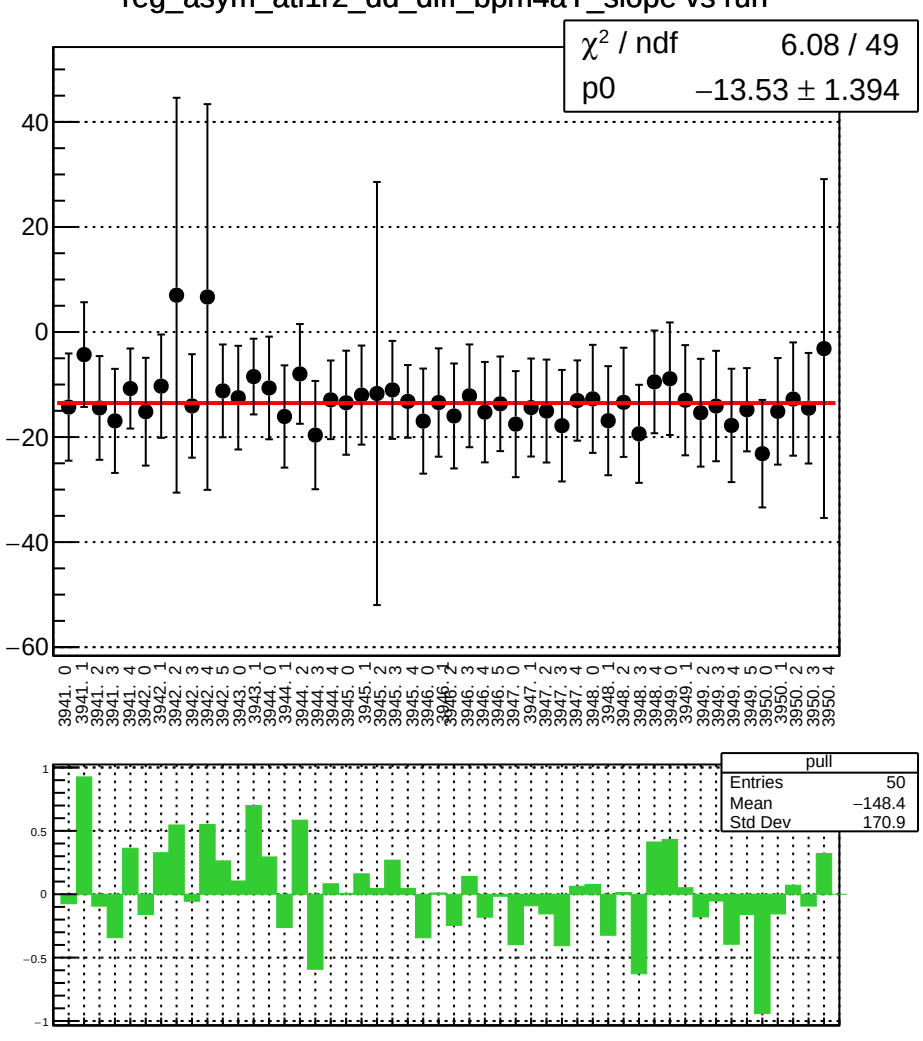

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 982.2 / 49
p0 2.622 ± 0.2451
pull
Entries 50
Mean 118.8
Std Dev 97.03
pull1D
Entries 50
Mean 0.6824
Std Dev 4.226

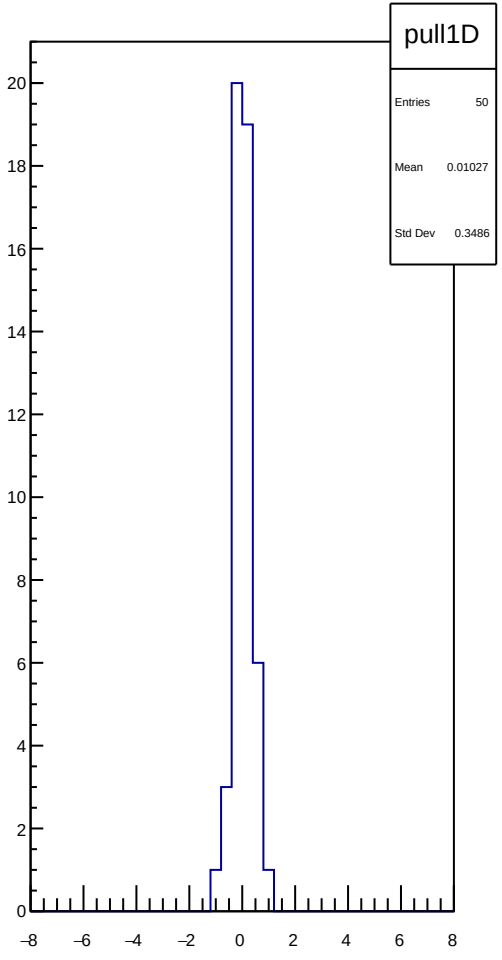

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.858 / 49
p0 9.172 ± 1.805
100
50
0
−50
−100
pull
Entries 50
Mean 52.36
Std Dev 7.278
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

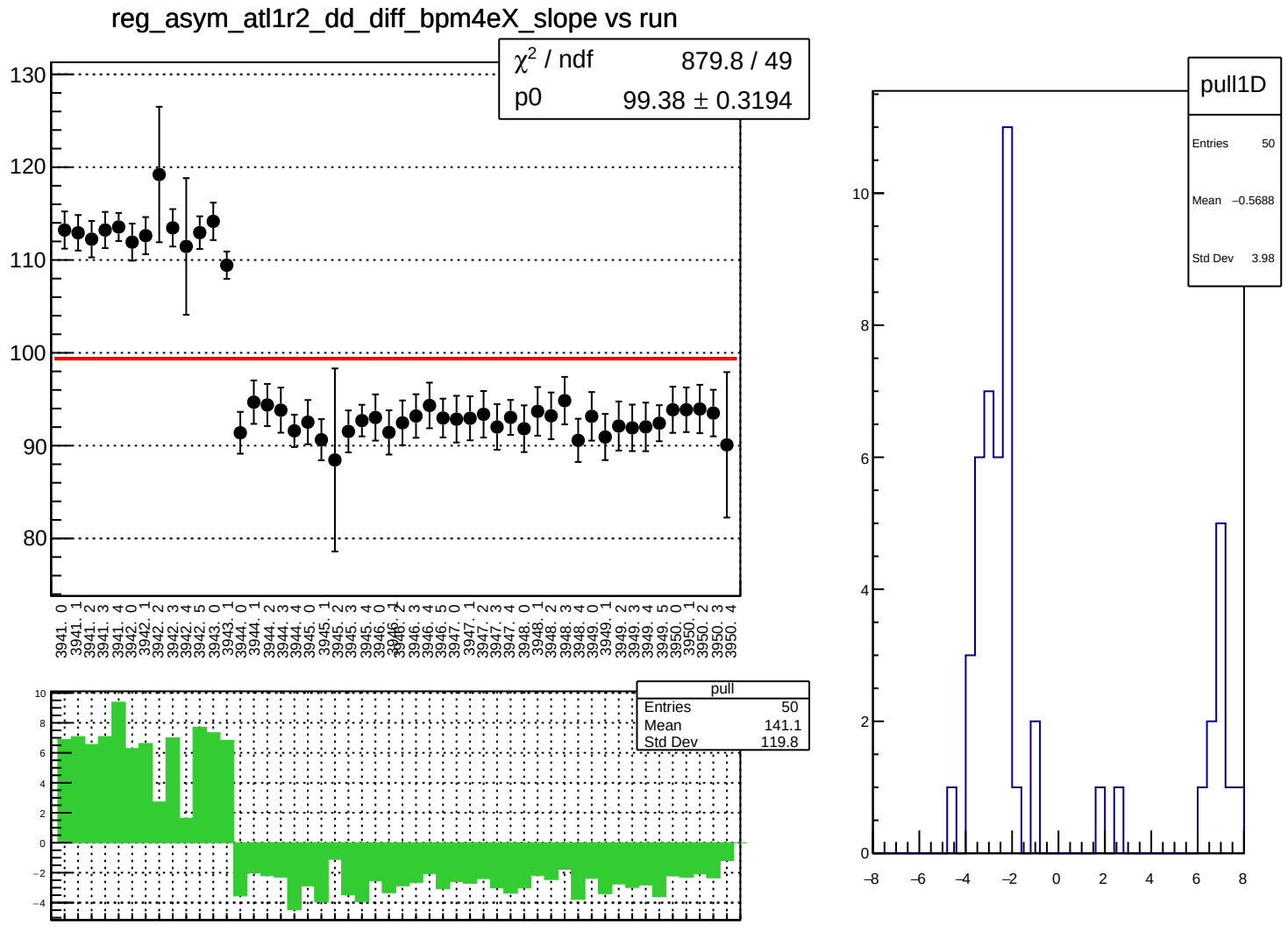

pull1D
Entries 50
Mean −0.02451
Std Dev 0.3107
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

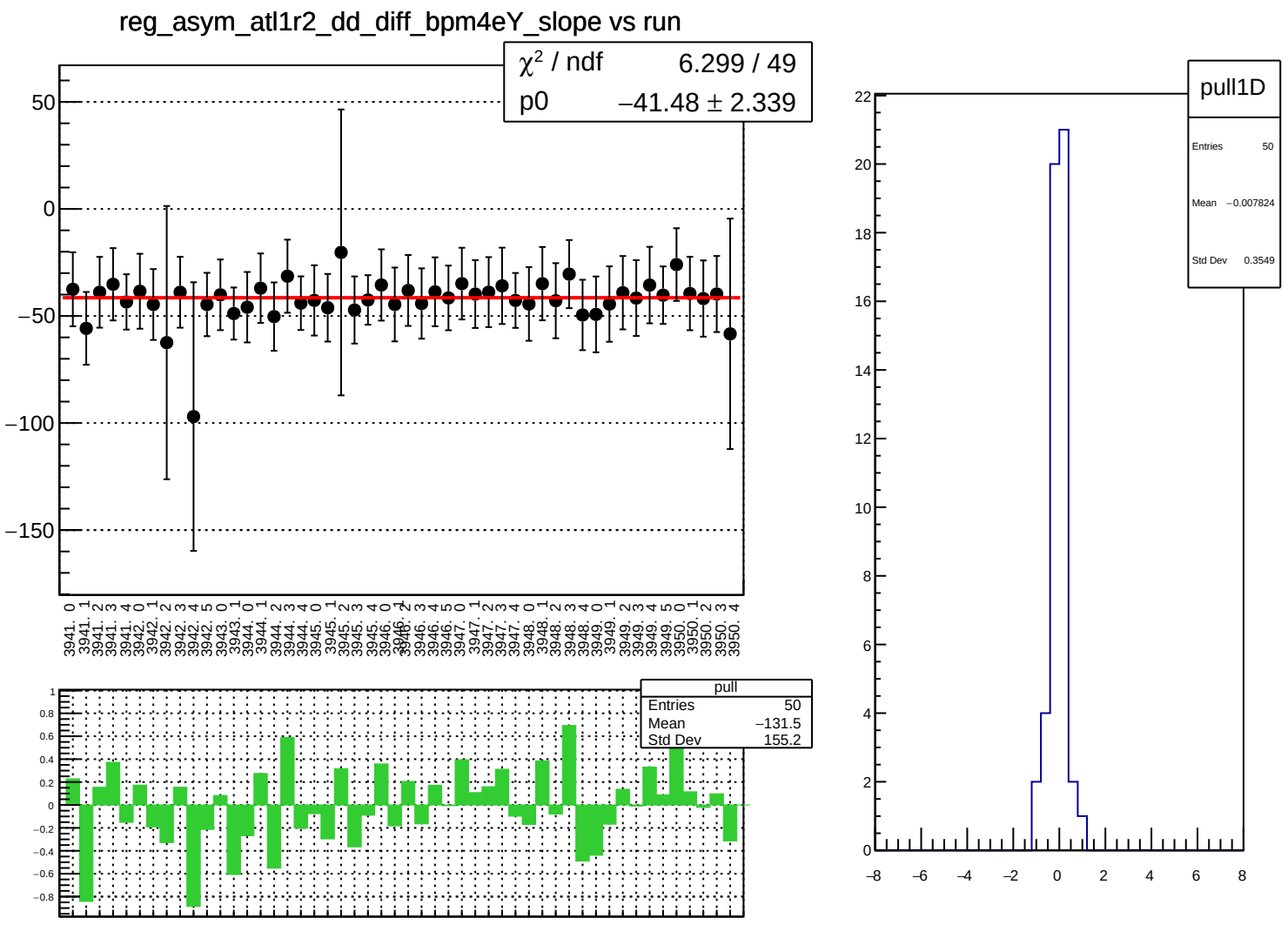

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 14.21 / 49
p0 −181.4 ± 0.3059
pull
Entries 50
Mean −27.53
Std Dev 50.37
pull1D
Entries 50
Mean −0.03856
Std Dev 0.5317

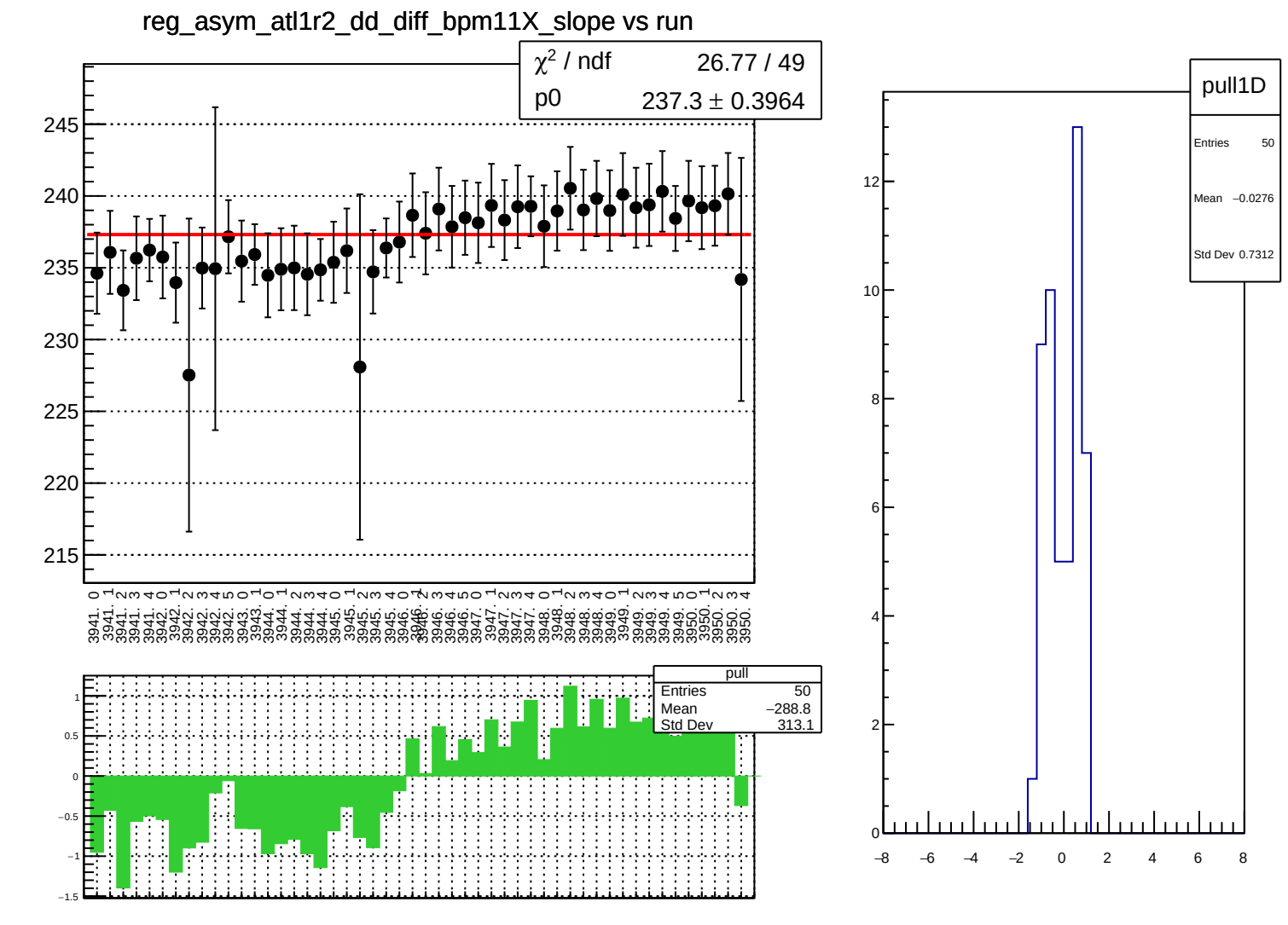

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 89.33 / 49
p0 30.47 ± 1.974
pull
Entries 50
Mean 190.4
Std Dev 169.2
pull1D
Entries 50
Mean 0.07662
Std Dev 1.334

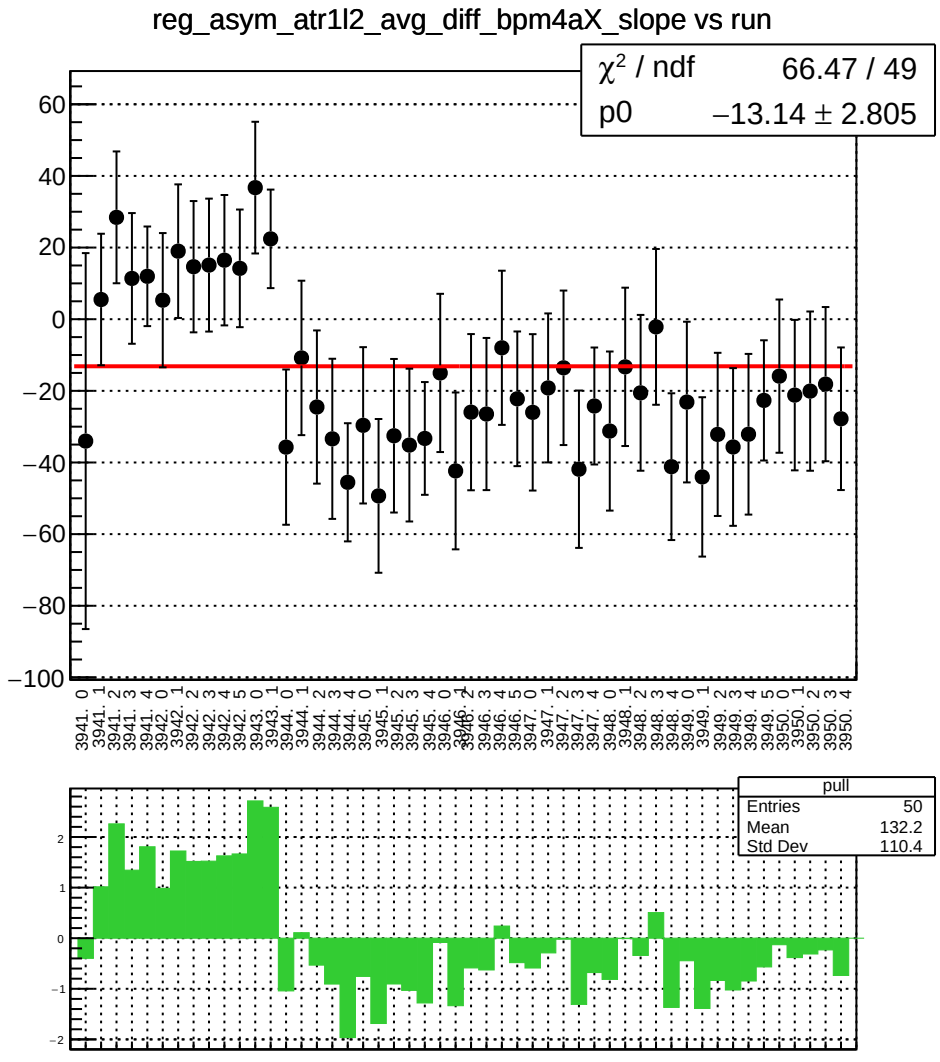

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.08 / 49
p0 −13.53 ± 1.394
pull
Entries 50
Mean −148.4
Std Dev 170.9

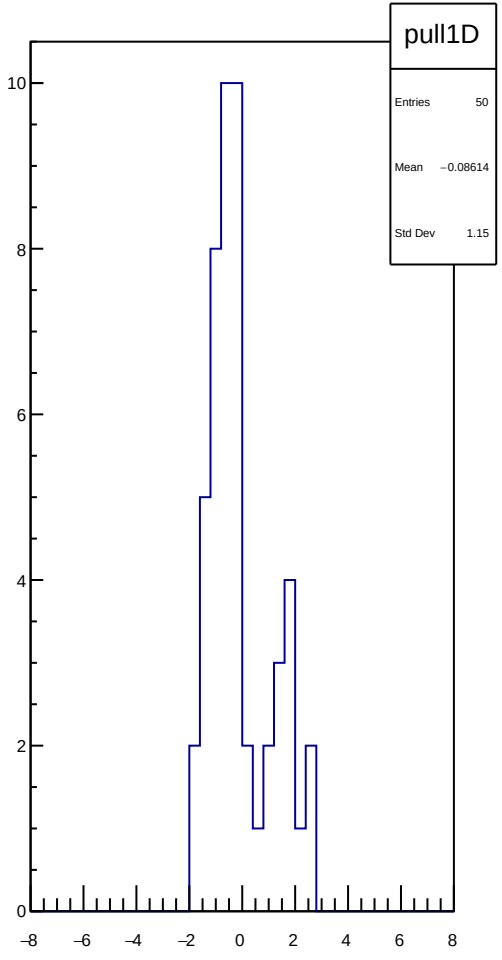

pull1D
Entries 50
Mean 0.01027
Std Dev 0.3486

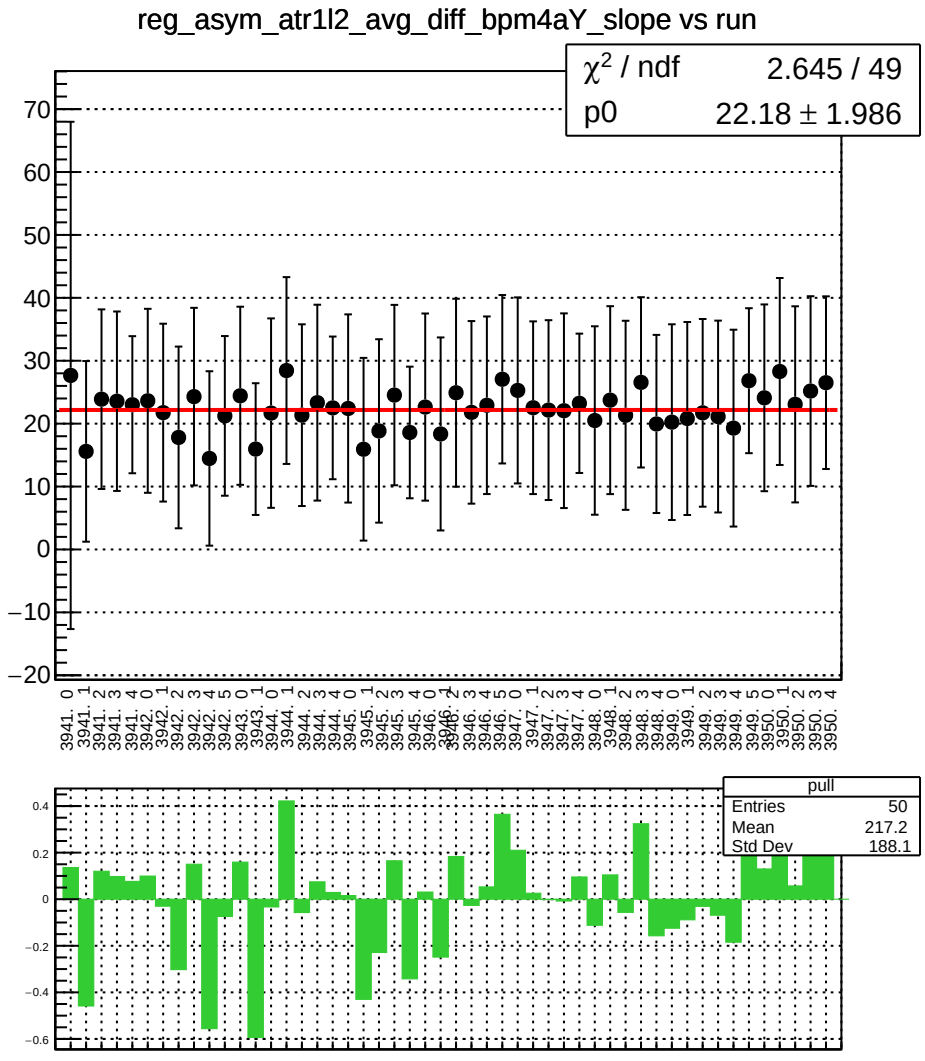

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 879.8 / 49
p0 99.38 ± 0.3194
130
120
110
100
90
80
pull
Entries 50
Mean 141.1
Std Dev 119.8
pull1D
Entries 50
Mean −0.5688
Std Dev 3.98

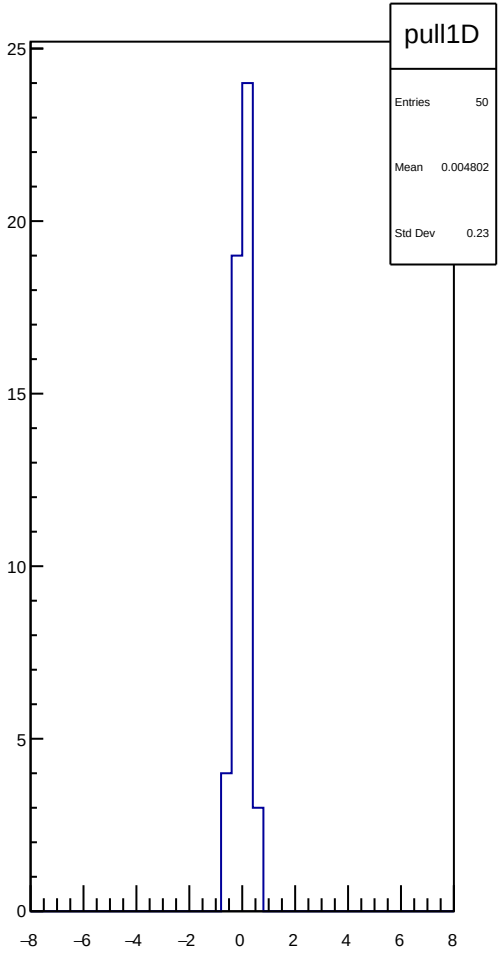

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.299 / 49
p0 −41.48 ± 2.339
50
0
−50
−100
−150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −131.5
Std Dev 155.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 50
Mean −0.007824
Std Dev 0.3549
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

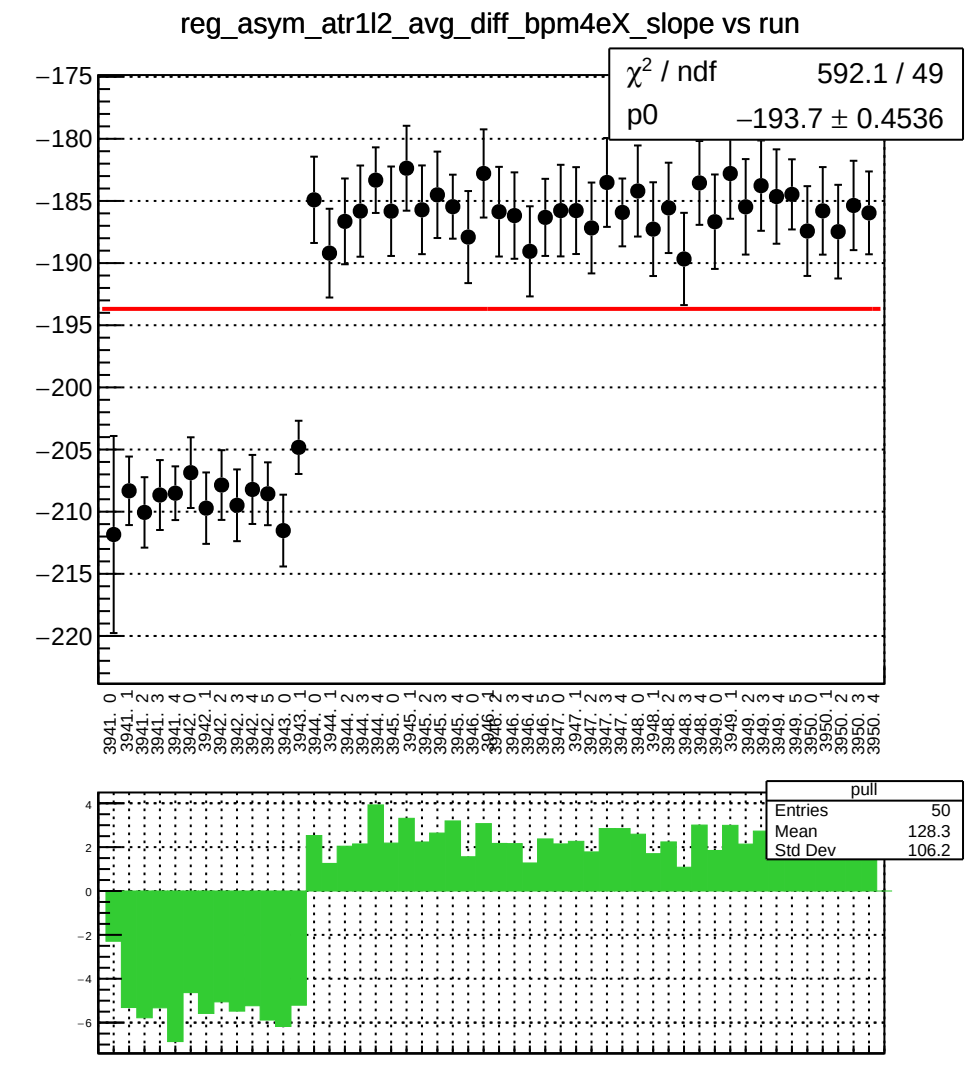

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 26.77 / 49
p0 237.3 ± 0.3964
245
240
235
230
225
220
215
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean −288.8
Std Dev 313.1
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.0276
Std Dev 0.7312
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

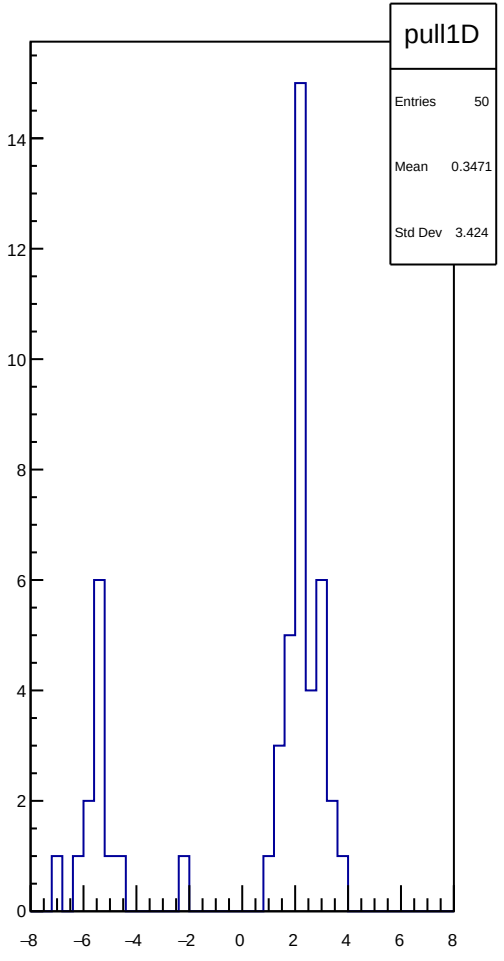

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 66.47 / 49
p0 −13.14 ± 2.805
pull
Entries 50
Mean 132.2
Std Dev 110.4

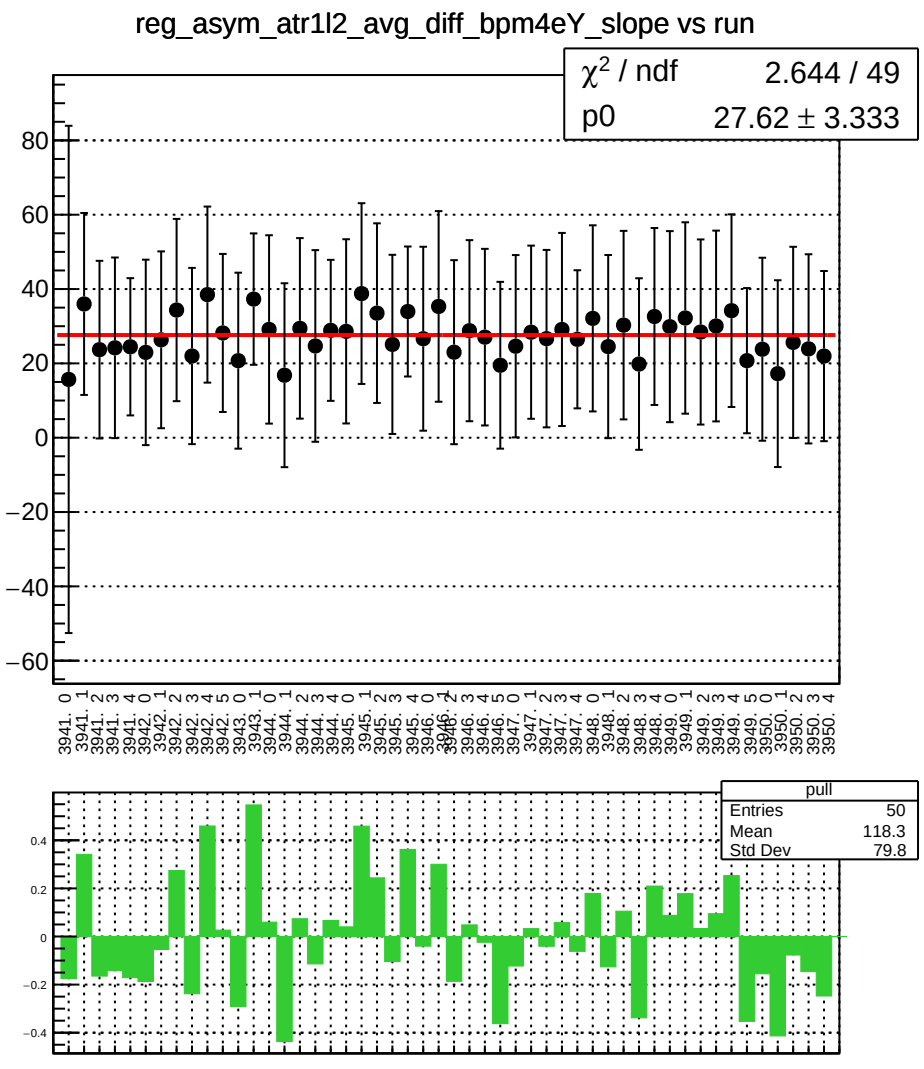

pull1D
Entries 50
Mean −0.08614
Std Dev 1.15

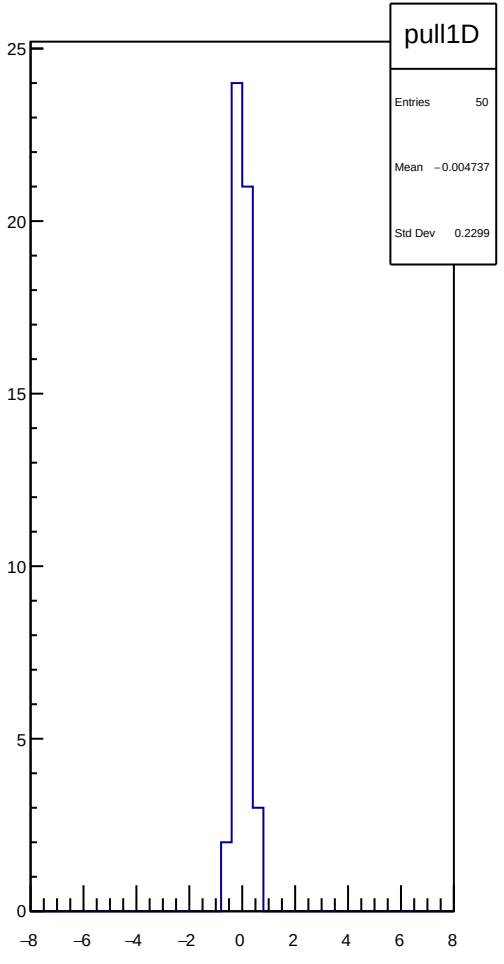

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.645 / 49
p0 22.18 ± 1.986
pull
Entries 50
Mean 217.2
Std Dev 188.1

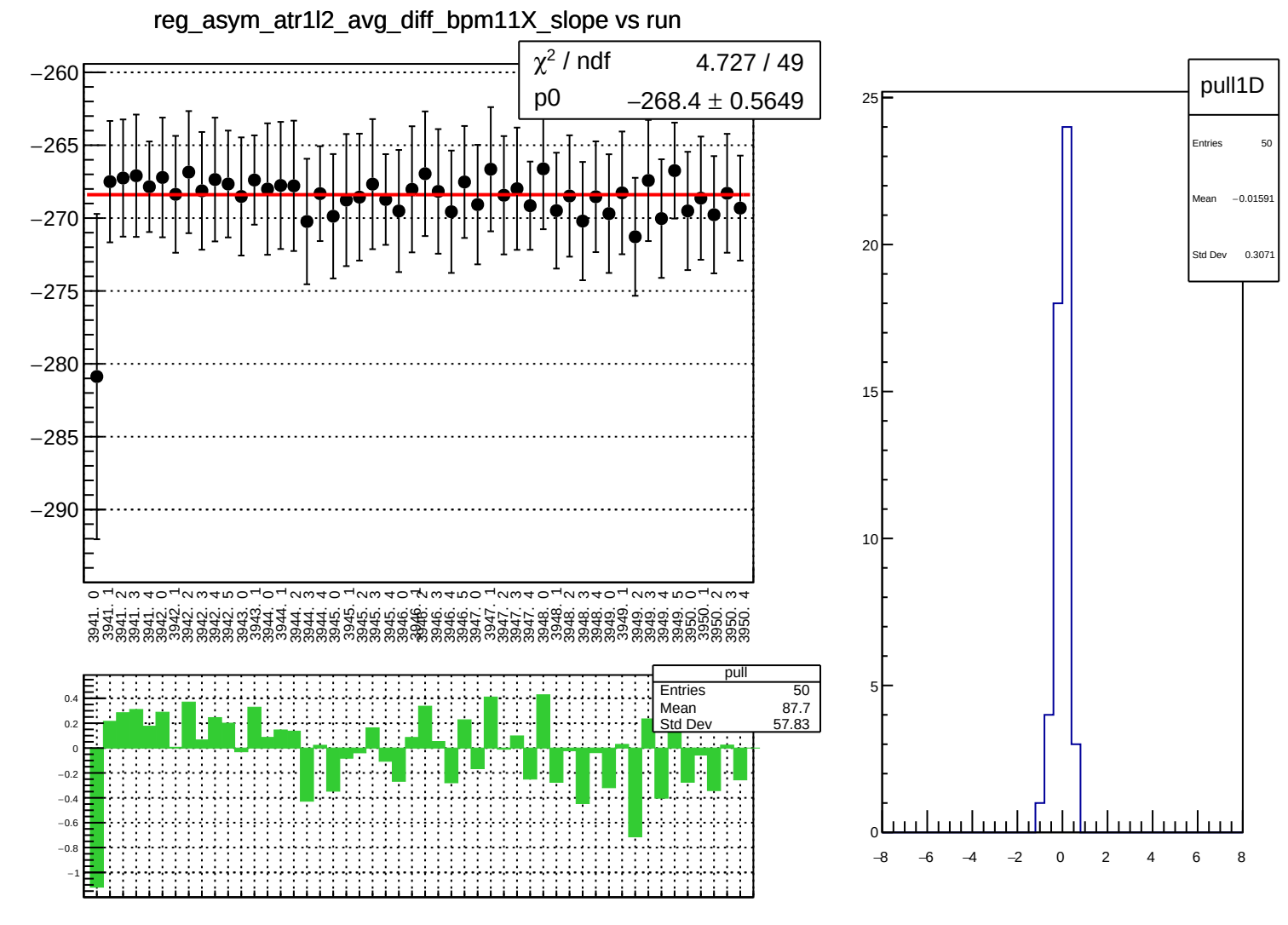

pull1D
Entries 50
Mean 0.004802
Std Dev 0.23

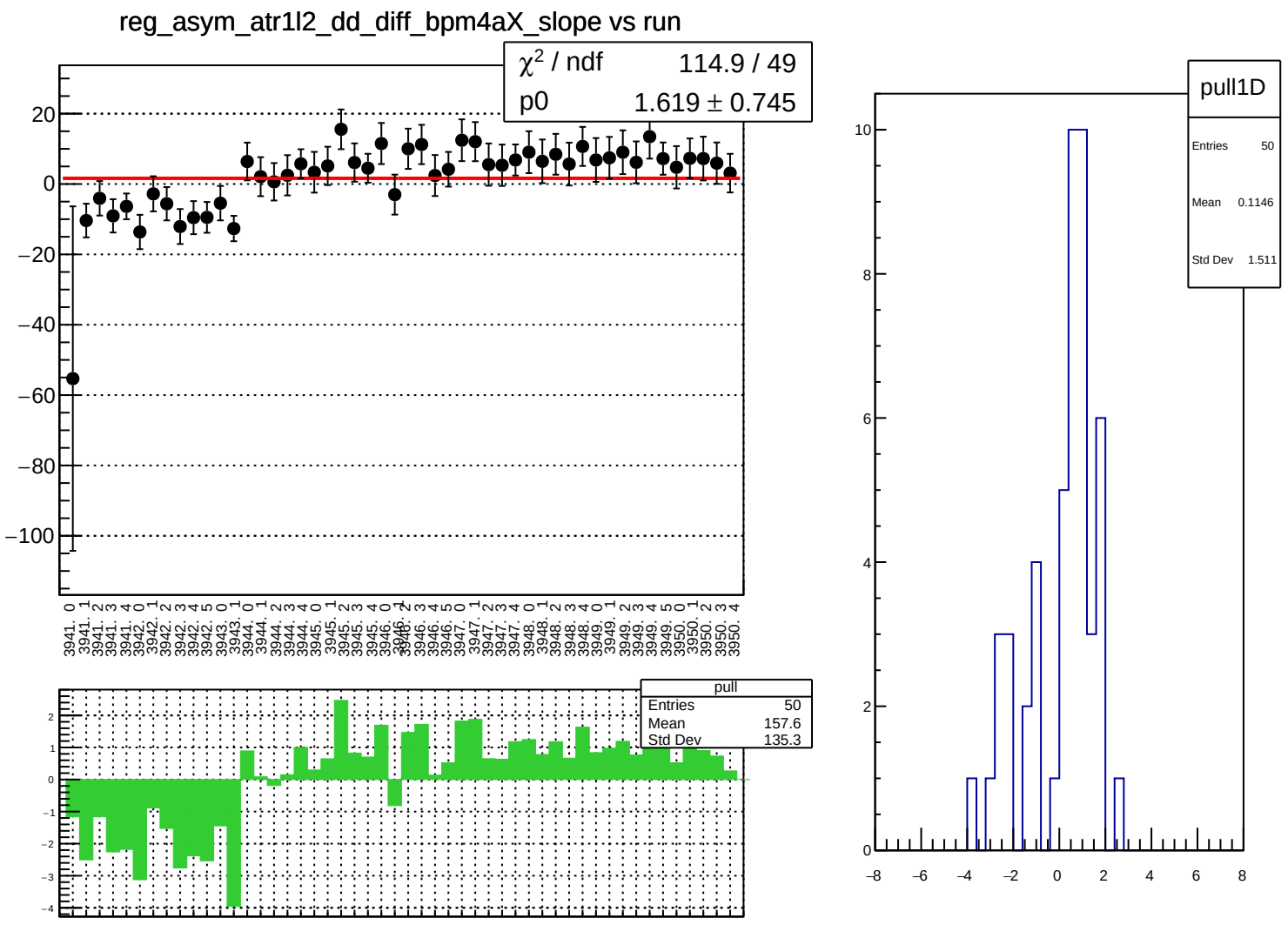

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 592.1 / 49
p0 −193.7 ± 0.4536
pull
Entries 50
Mean 128.3
Std Dev 106.2

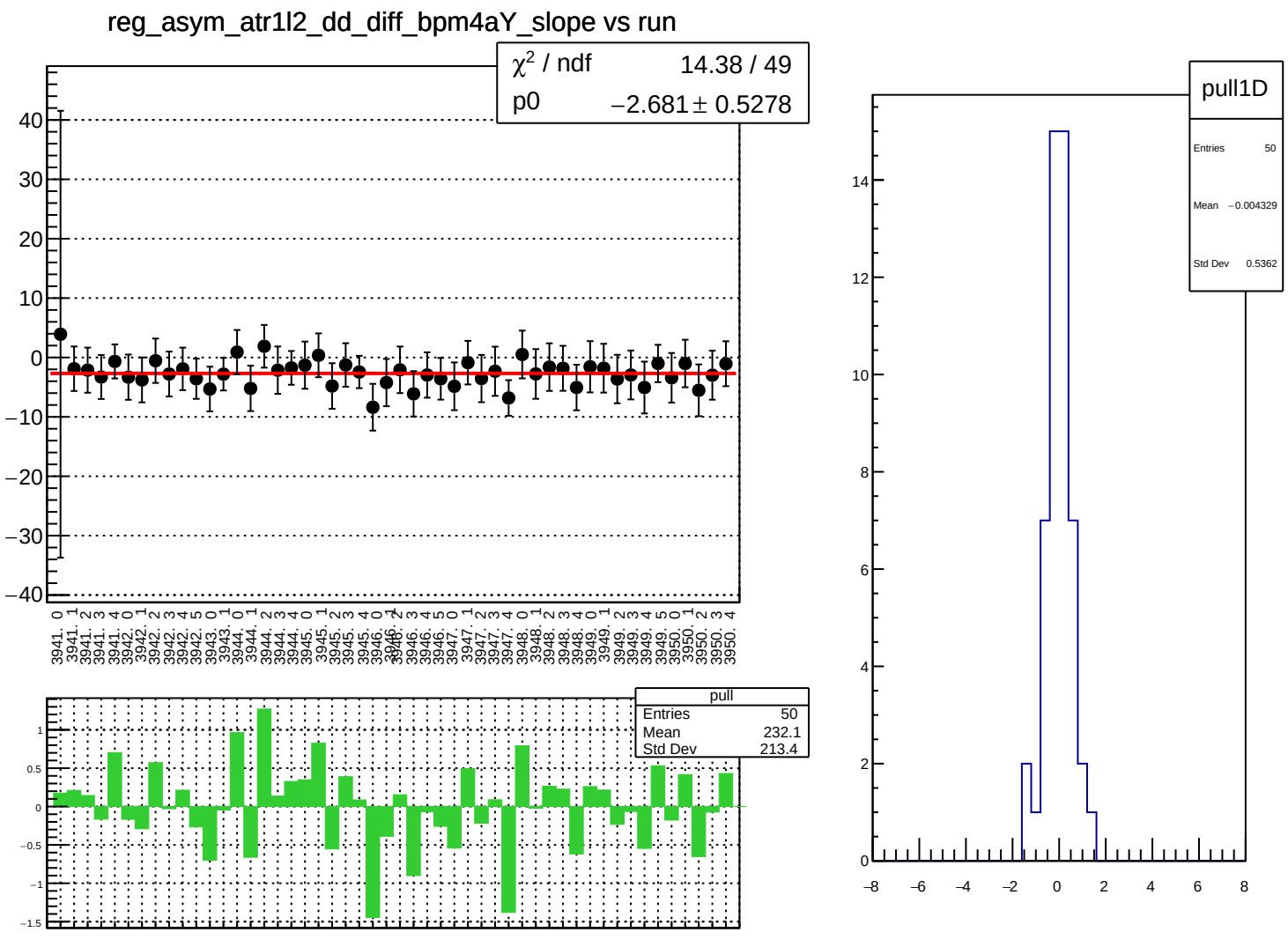

pull1D
Entries 50
Mean 0.3471
Std Dev 3.424

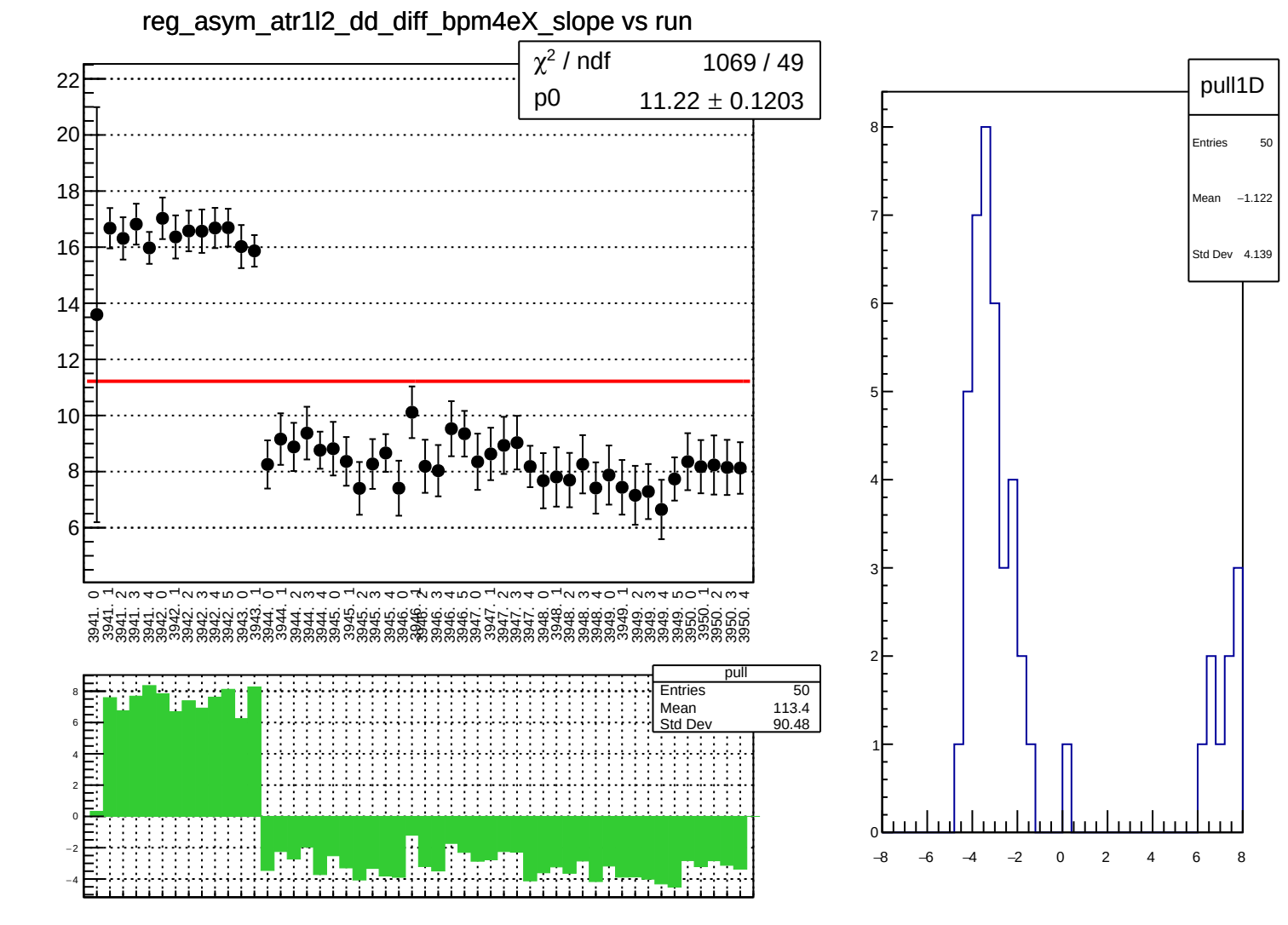

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.644 / 49
p0 27.62 ± 3.333
pull
Entries 50
Mean 118.3
Std Dev 79.8

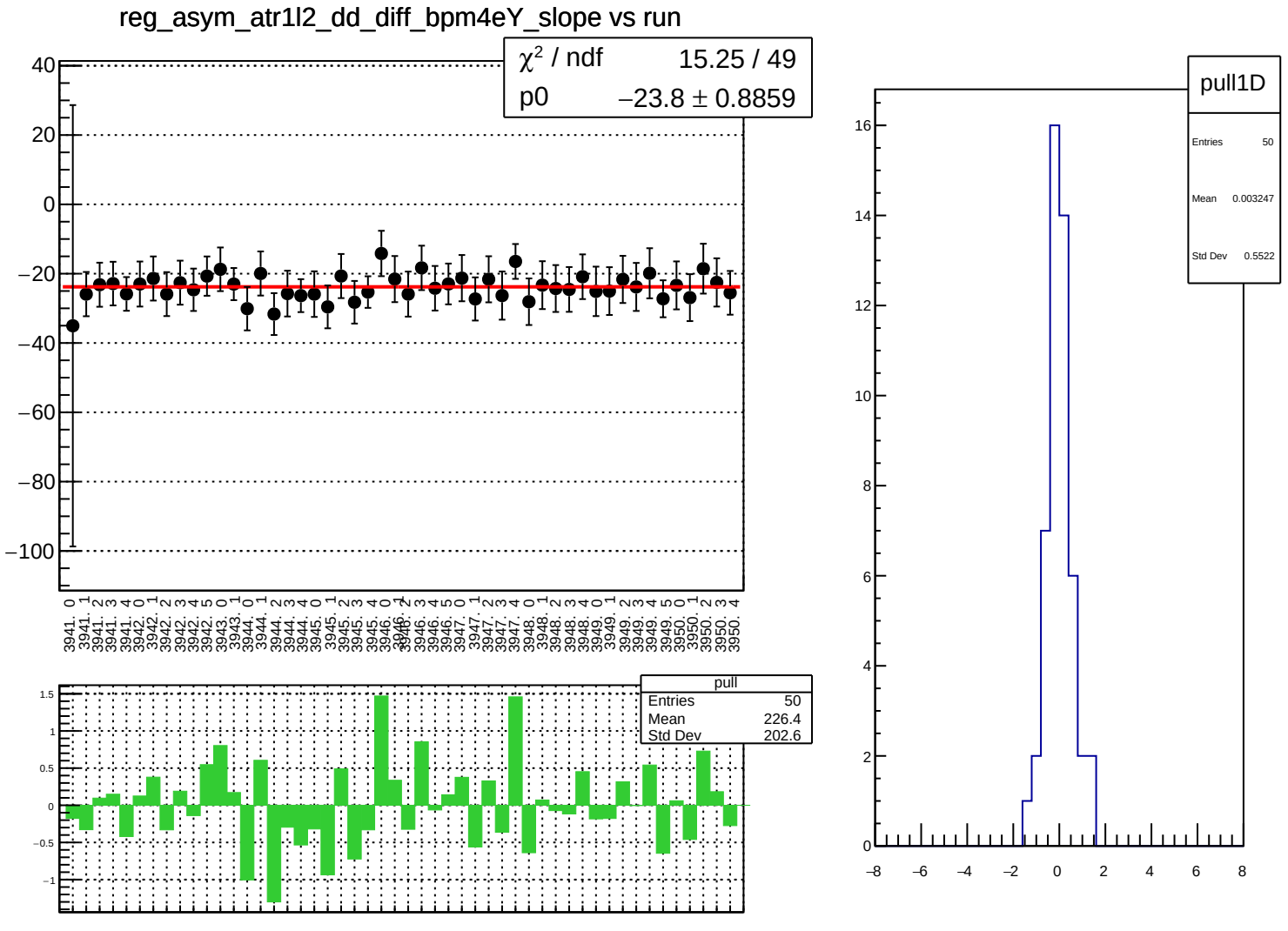

pull1D
Entries 50
Mean −0.004737
Std Dev 0.2299

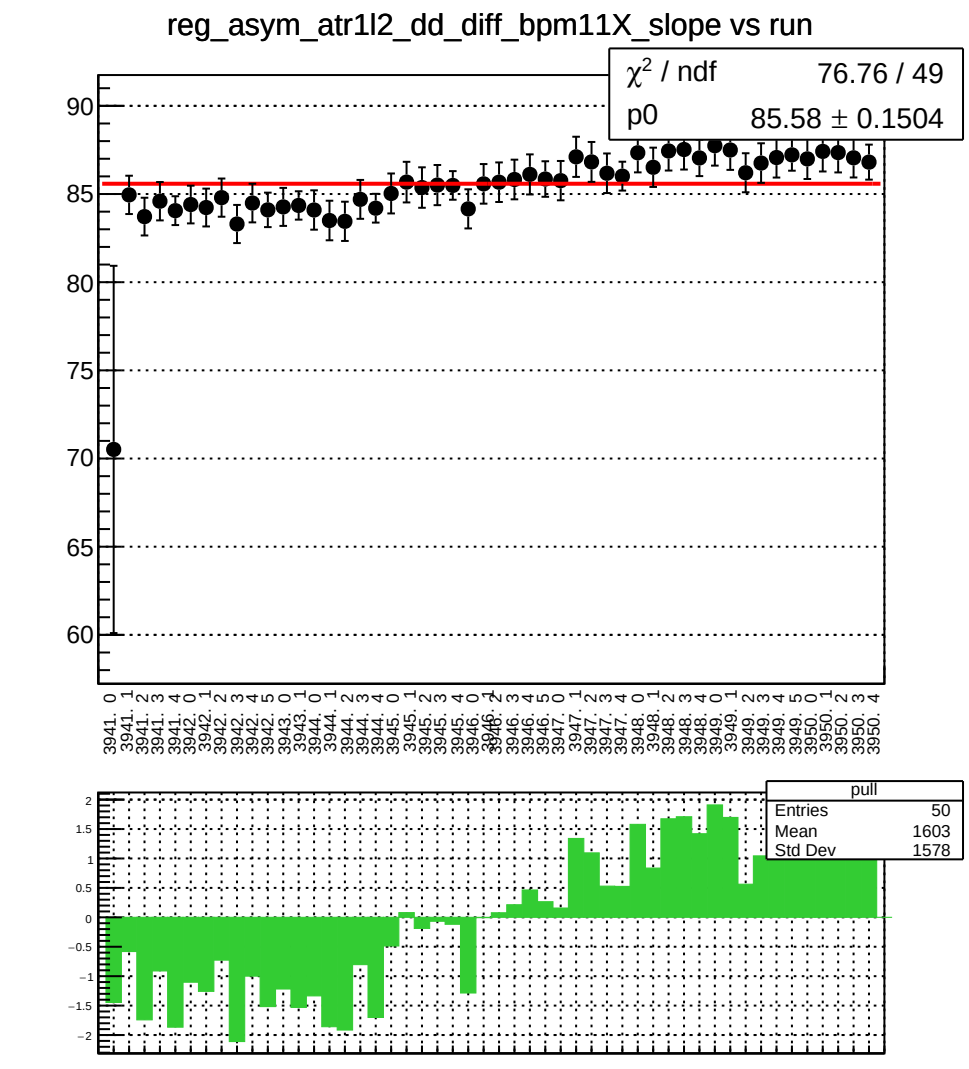

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 4.727 / 49
p0 −268.4 ± 0.5649
pull
Entries 50
Mean 87.7
Std Dev 57.83
pull1D
Entries 50
Mean −0.01591
Std Dev 0.3071

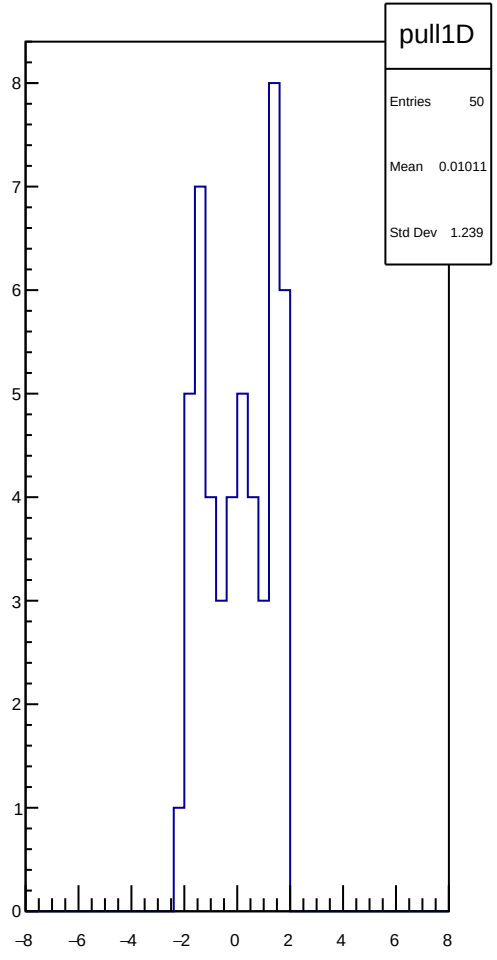

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 114.9 / 49
p0 1.619 ± 0.745
pull
Entries 50
Mean 157.6
Std Dev 135.3
pull1D
Entries 50
Mean 0.1146
Std Dev 1.511

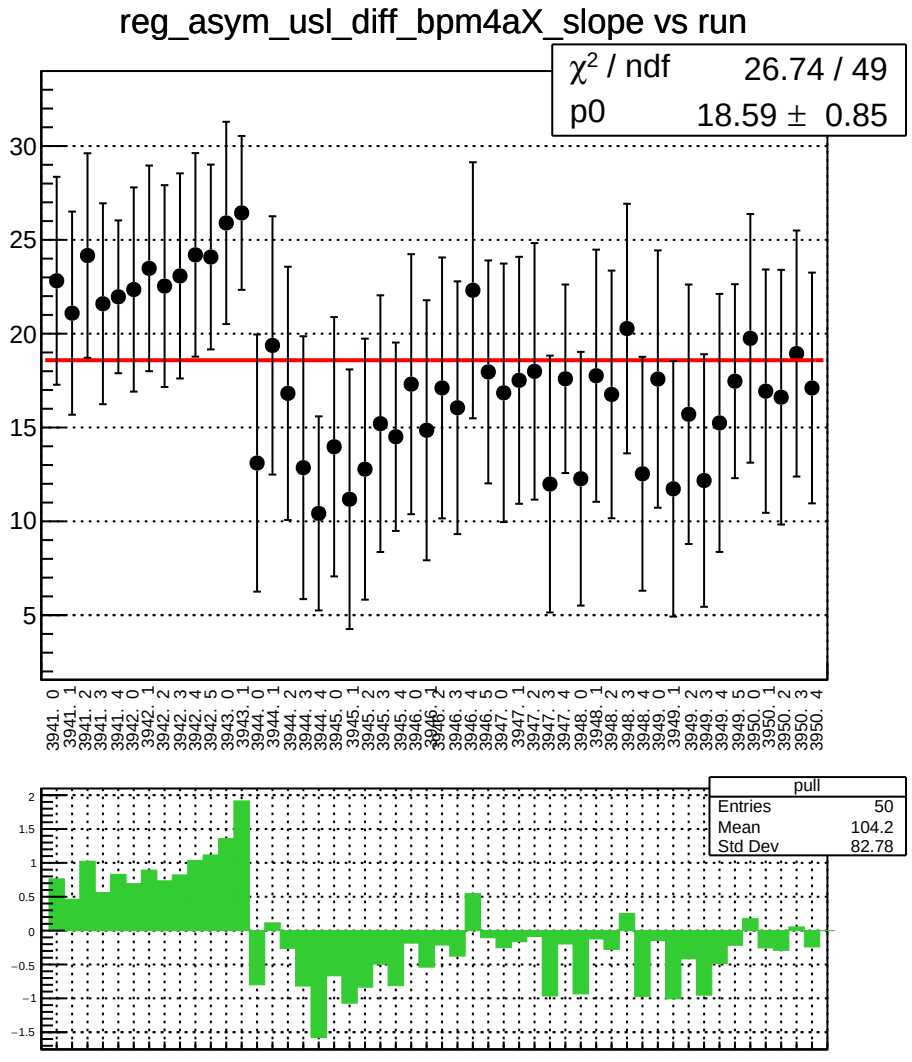

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.38 / 49
p0 −2.681 ± 0.5278
pull
Entries 50
Mean 232.1
Std Dev 213.4
pull1D
Entries 50
Mean −0.004329
Std Dev 0.5362

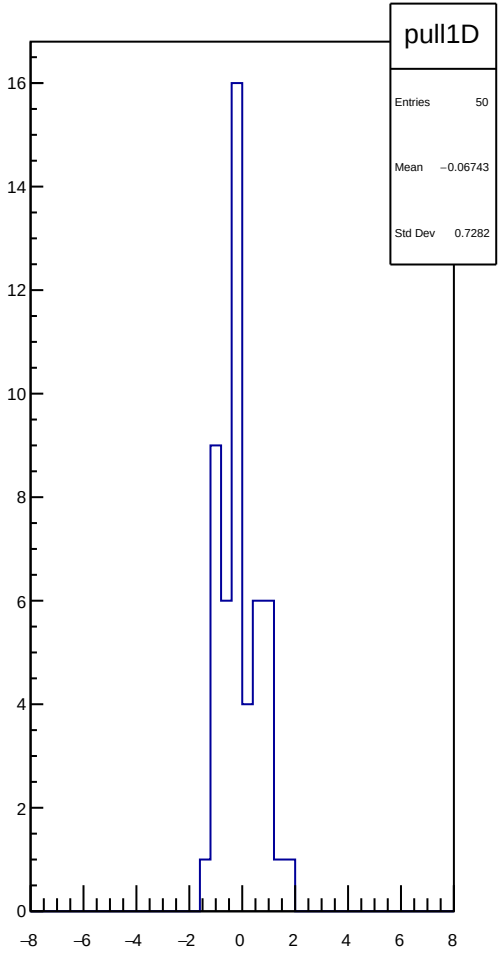

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 1069 / 49
p0 11.22 ± 0.1203
pull
Entries 50
Mean 113.4
Std Dev 90.48
pull1D
Entries 50
Mean −1.122
Std Dev 4.139

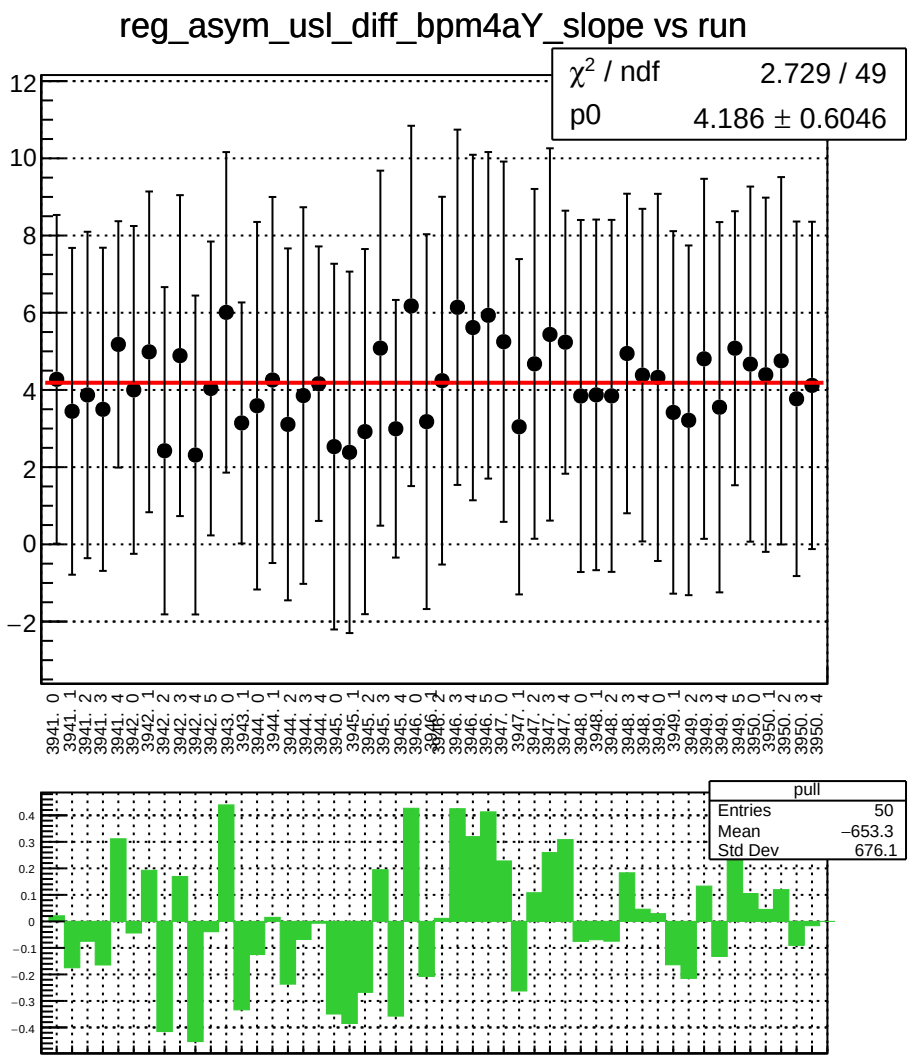

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.25 / 49
p0 −23.8 ± 0.8859
pull
Entries 50
Mean 226.4
Std Dev 202.6
pull1D
Entries 50
Mean 0.003247
Std Dev 0.5522

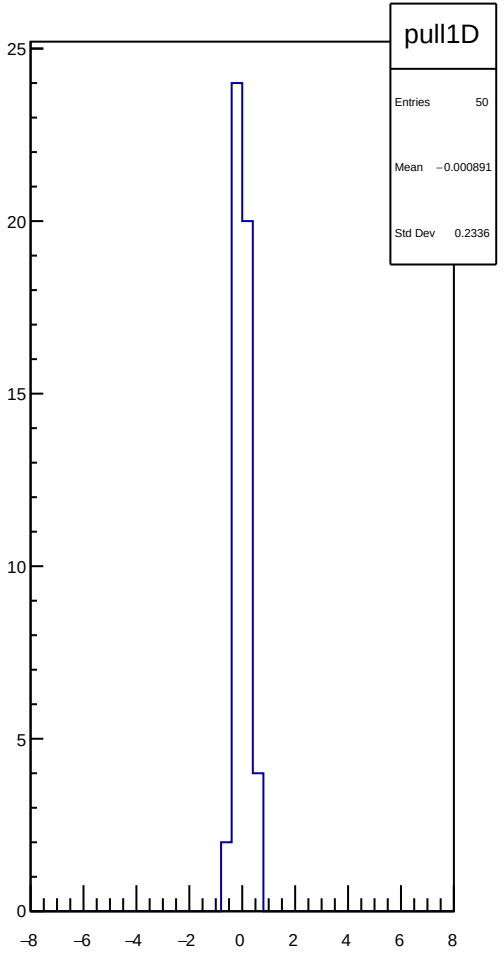

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 76.76 / 49
p0 85.58 ± 0.1504
pull
Entries 50
Mean 1603
Std Dev 1578

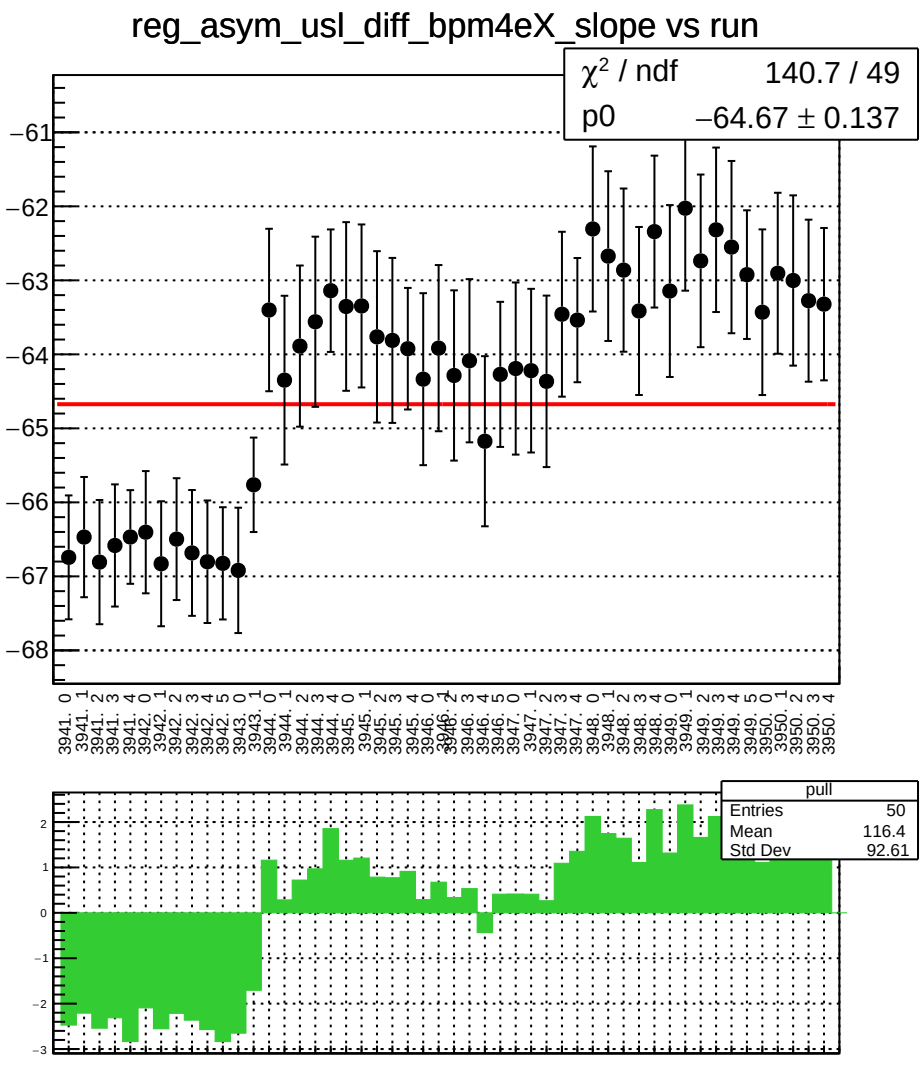

pull1D
Entries 50
Mean 0.01011
Std Dev 1.239

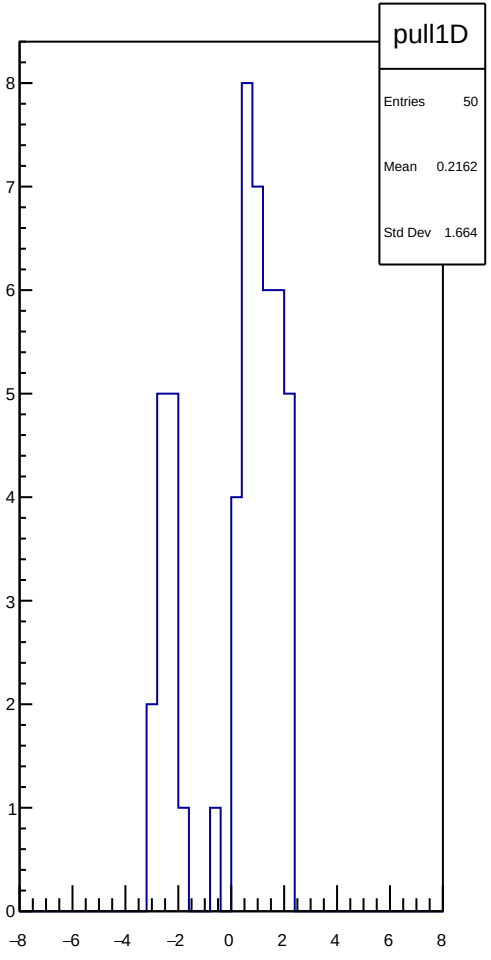

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 26.74 / 49
p0 18.59 ± 0.85
pull
Entries 50
Mean 104.2
Std Dev 82.78

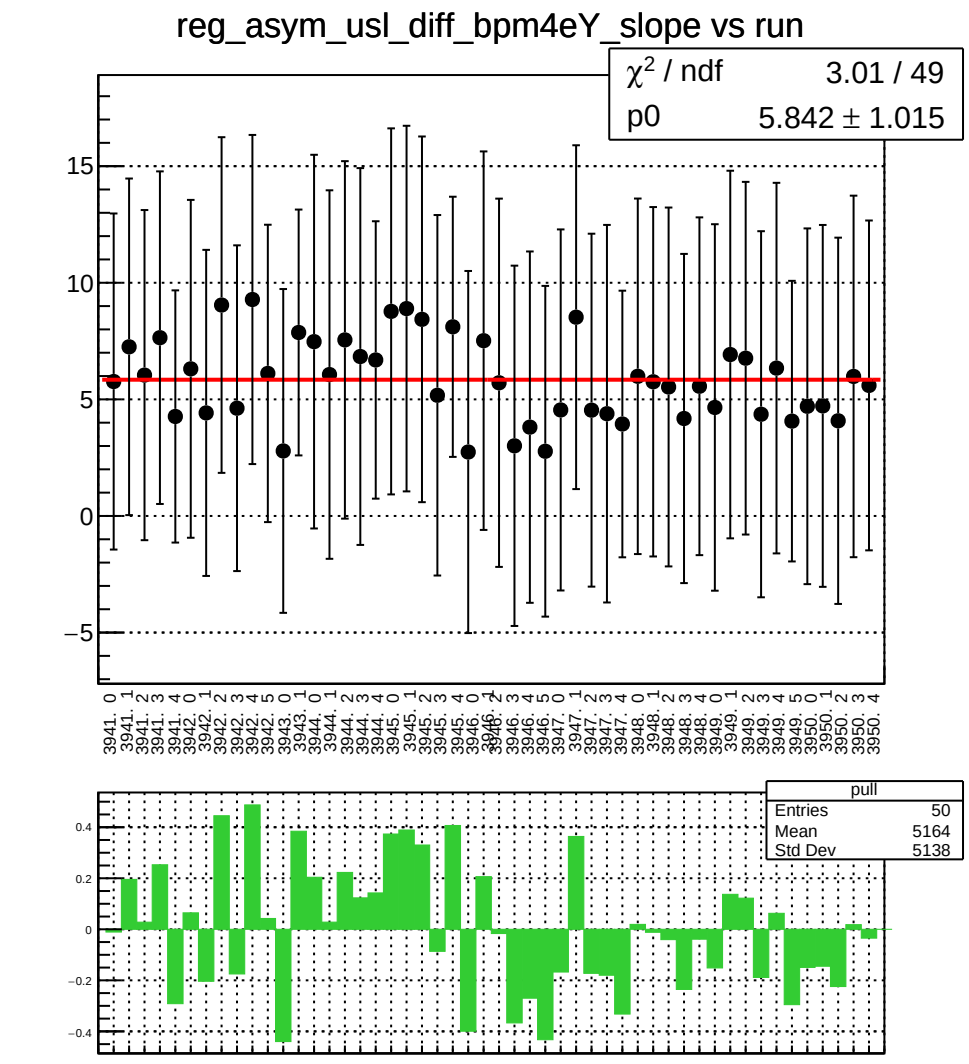

pull1D
Entries 50
Mean −0.06743
Std Dev 0.7282

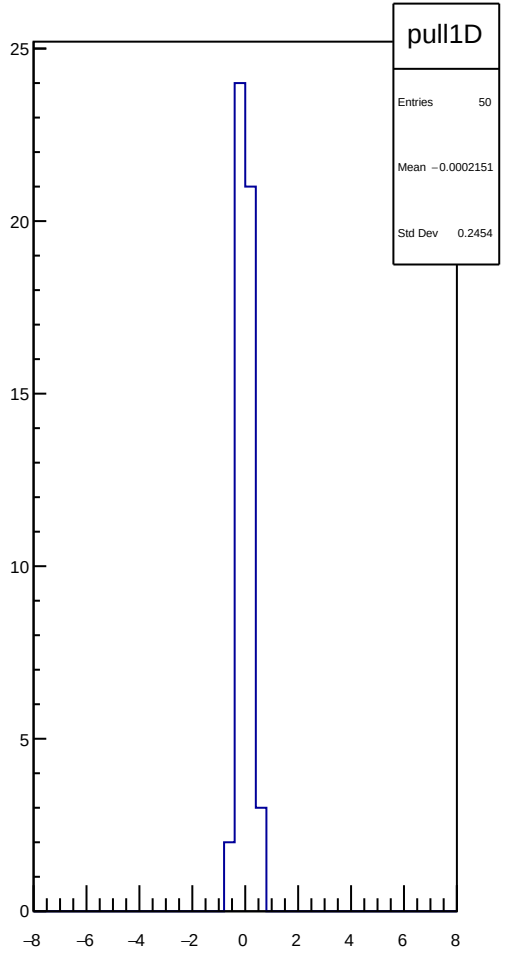

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 2.729 / 49
p0 4.186 ± 0.6046
pull
Entries 50
Mean −653.3
Std Dev 676.1

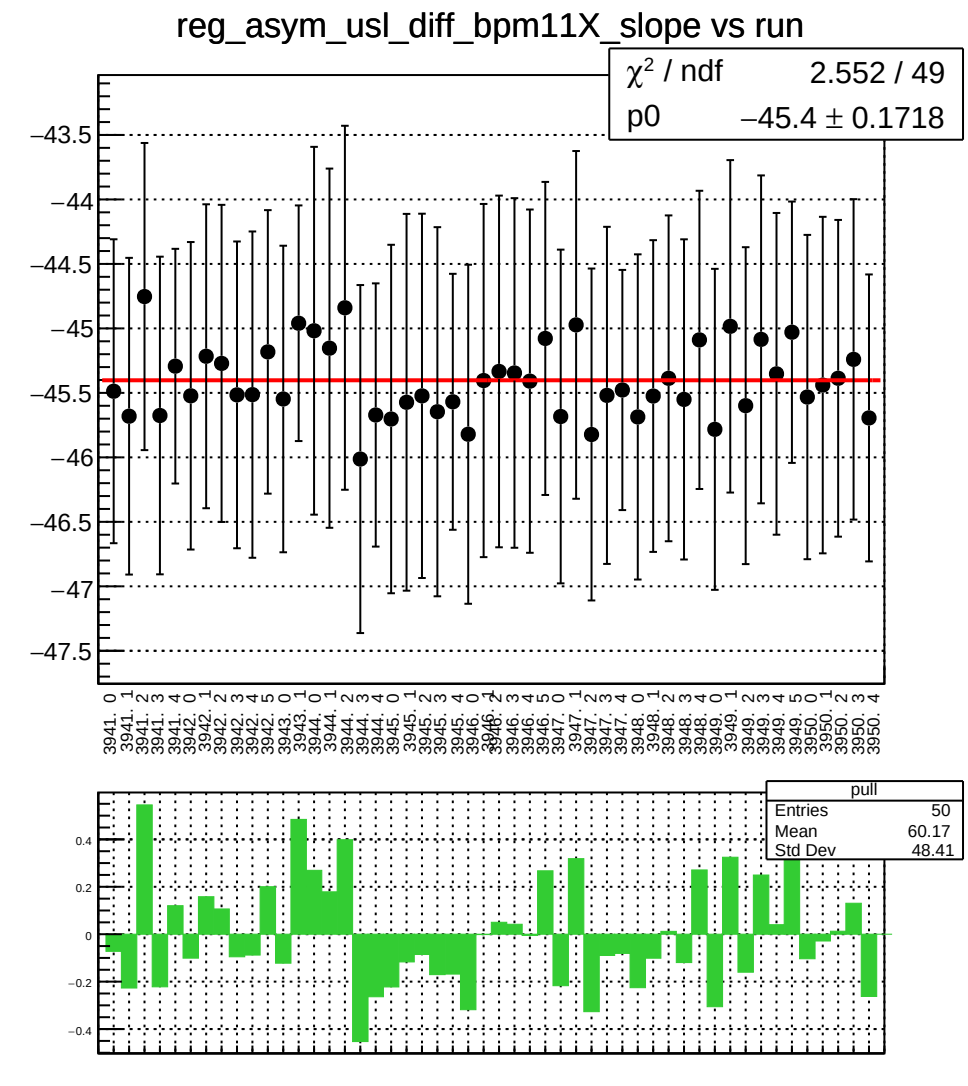

pull1D
Entries 50
Mean −0.000891
Std Dev 0.2336

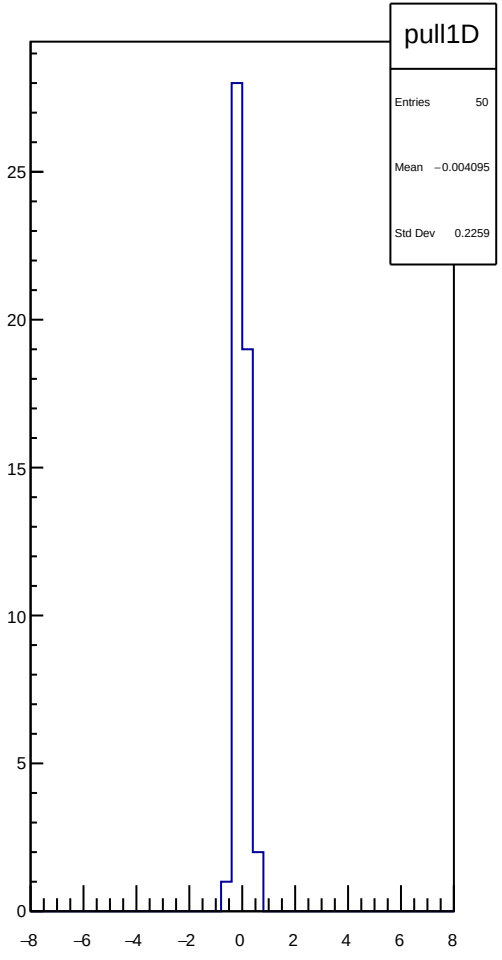

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 140.7 / 49
p0 −64.67 ± 0.137
pull
Entries 50
Mean 116.4
Std Dev 92.61

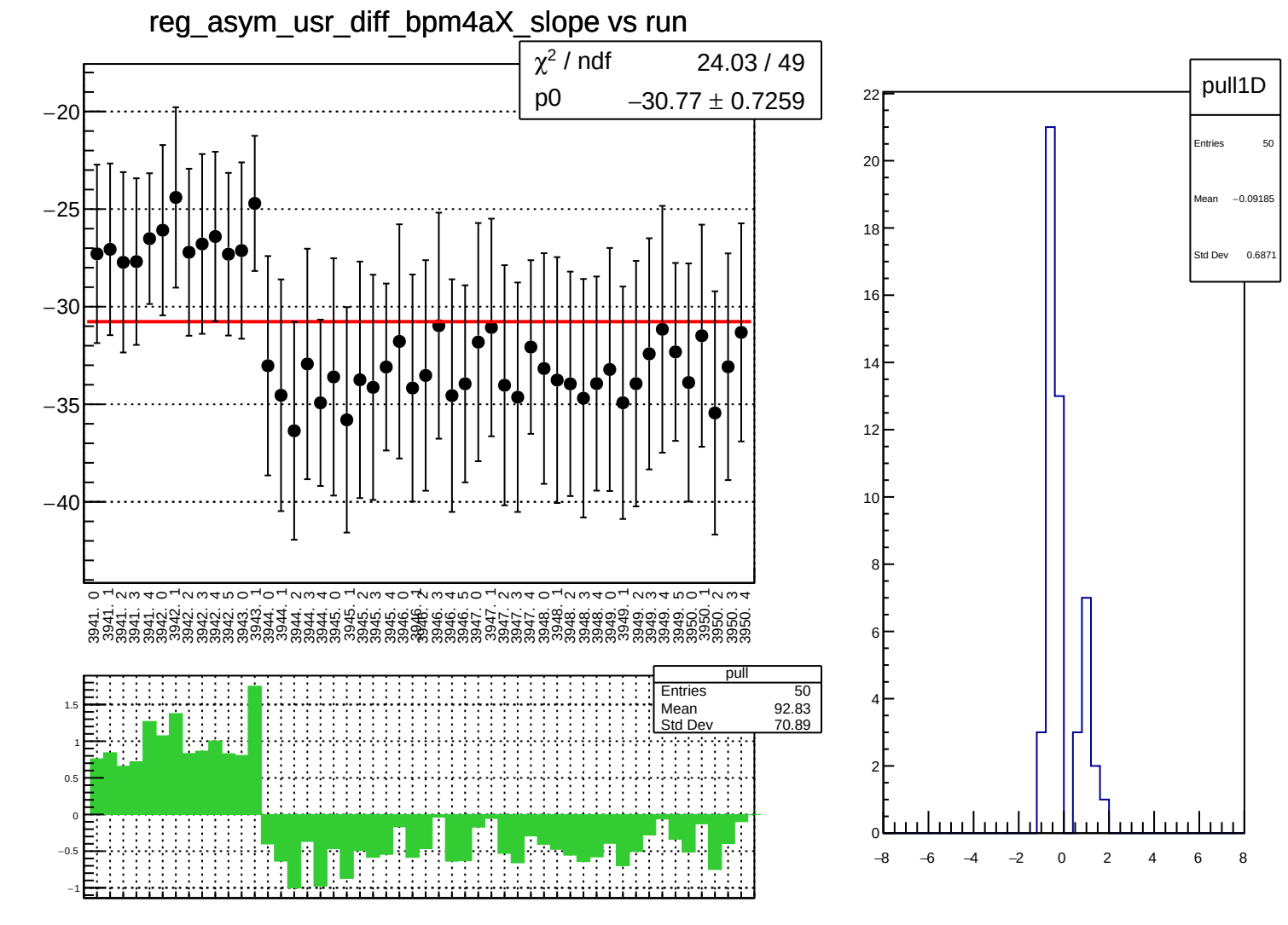

pull1D
Entries 50
Mean 0.2162
Std Dev 1.664

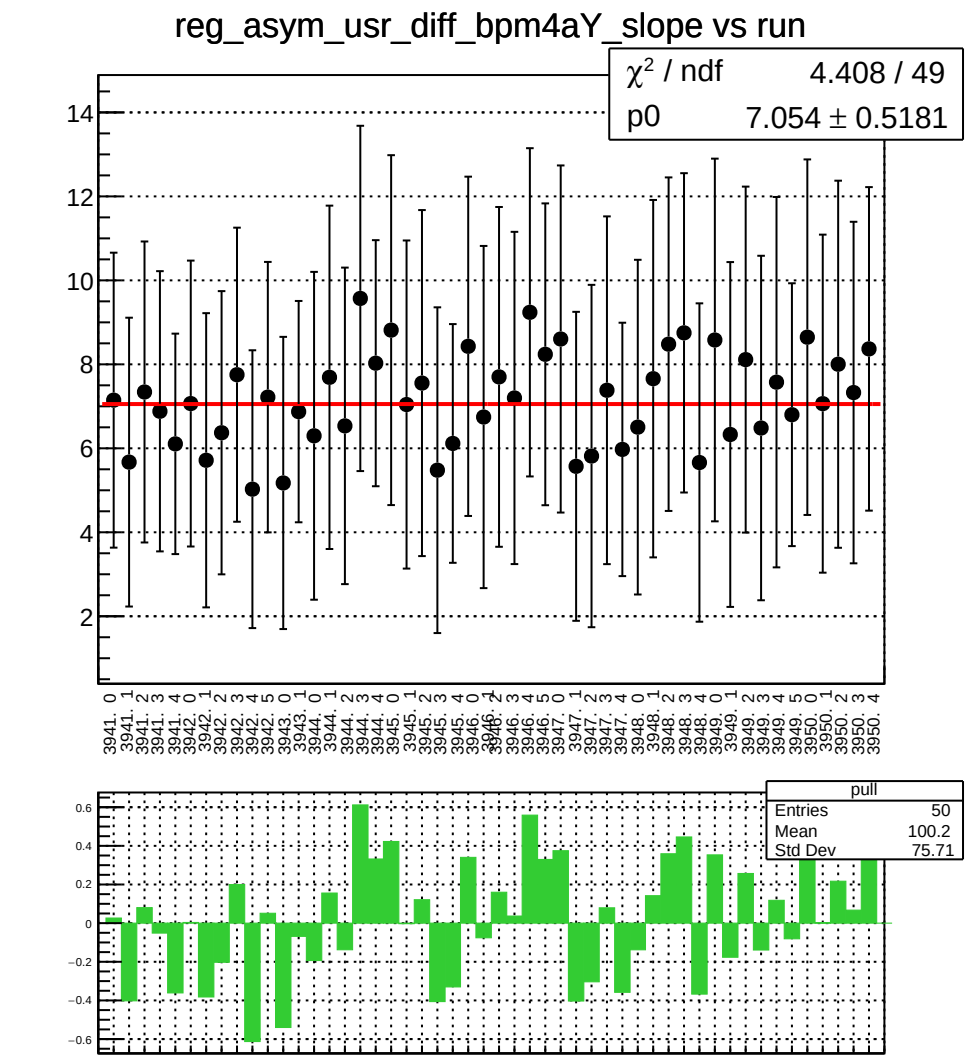

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.01 / 49
p0 5.842 ± 1.015
pull
Entries 50
Mean 5164
Std Dev 5138

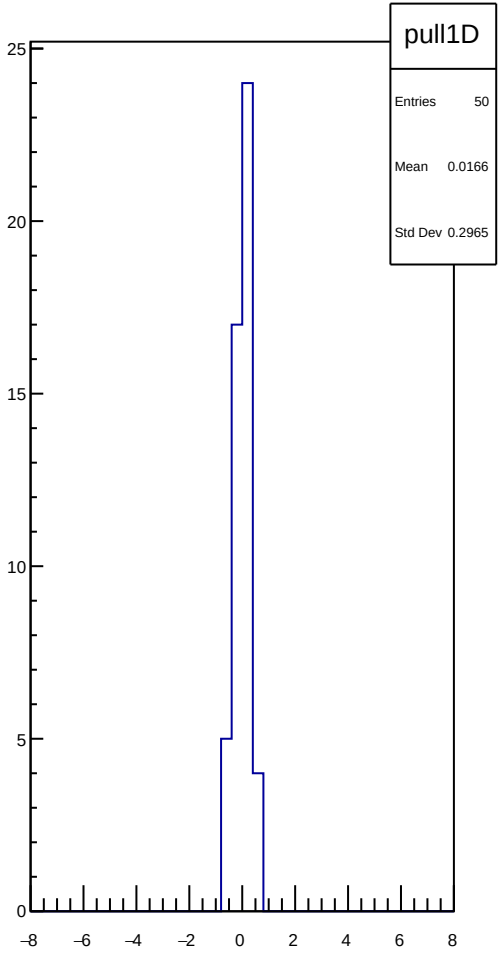

pull1D
Entries 50
Mean −0.0002151
Std Dev 0.2454

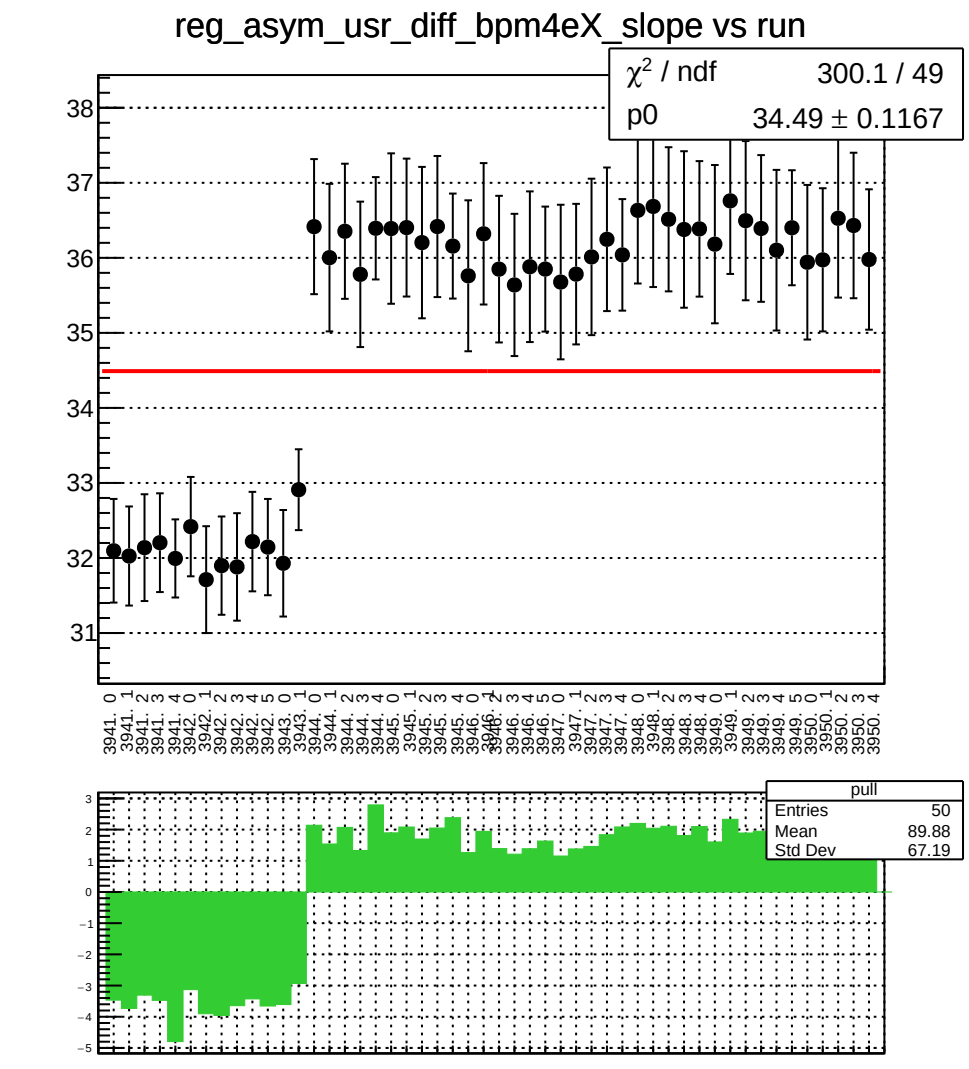

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 2.552 / 49
p0 −45.4 ± 0.1718
pull
Entries 50
Mean 60.17
Std Dev 48.41

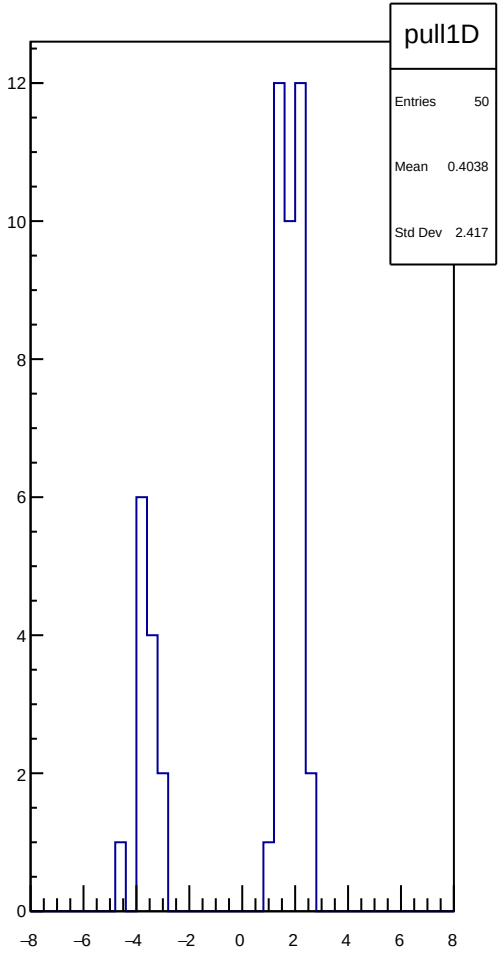

pull1D
Entries 50
Mean −0.004095
Std Dev 0.2259

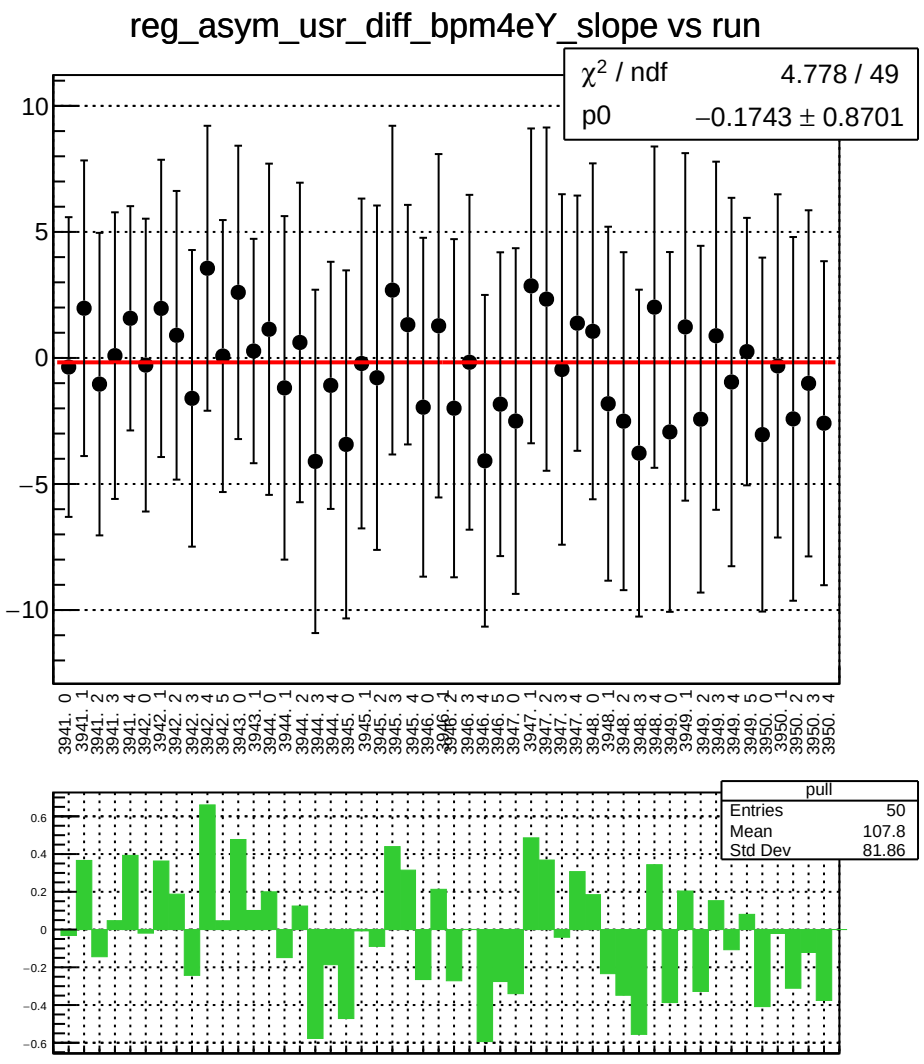

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 24.03 / 49
p0 −30.77 ± 0.7259
pull
Entries 50
Mean 92.83
Std Dev 70.89
pull1D
Entries 50
Mean −0.09185
Std Dev 0.6871

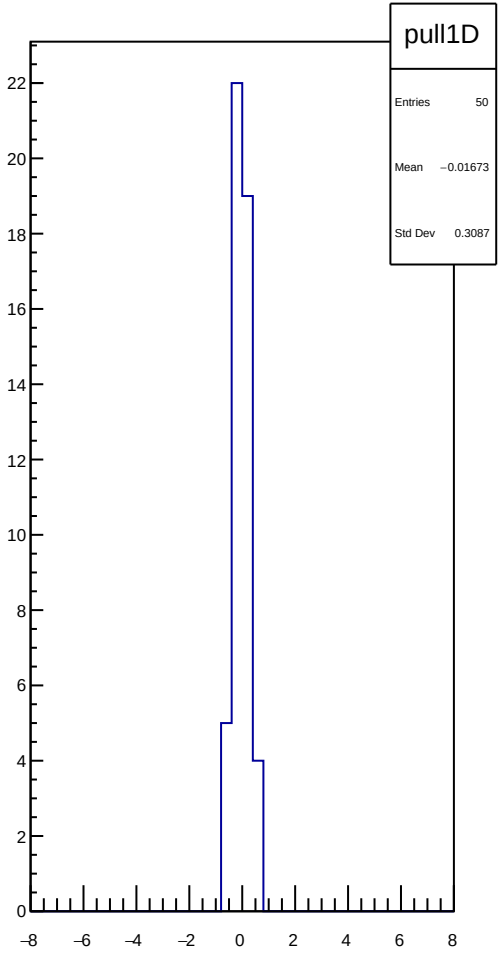

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 4.408 / 49
p0 7.054 ± 0.5181
pull
Entries 50
Mean 100.2
Std Dev 75.71

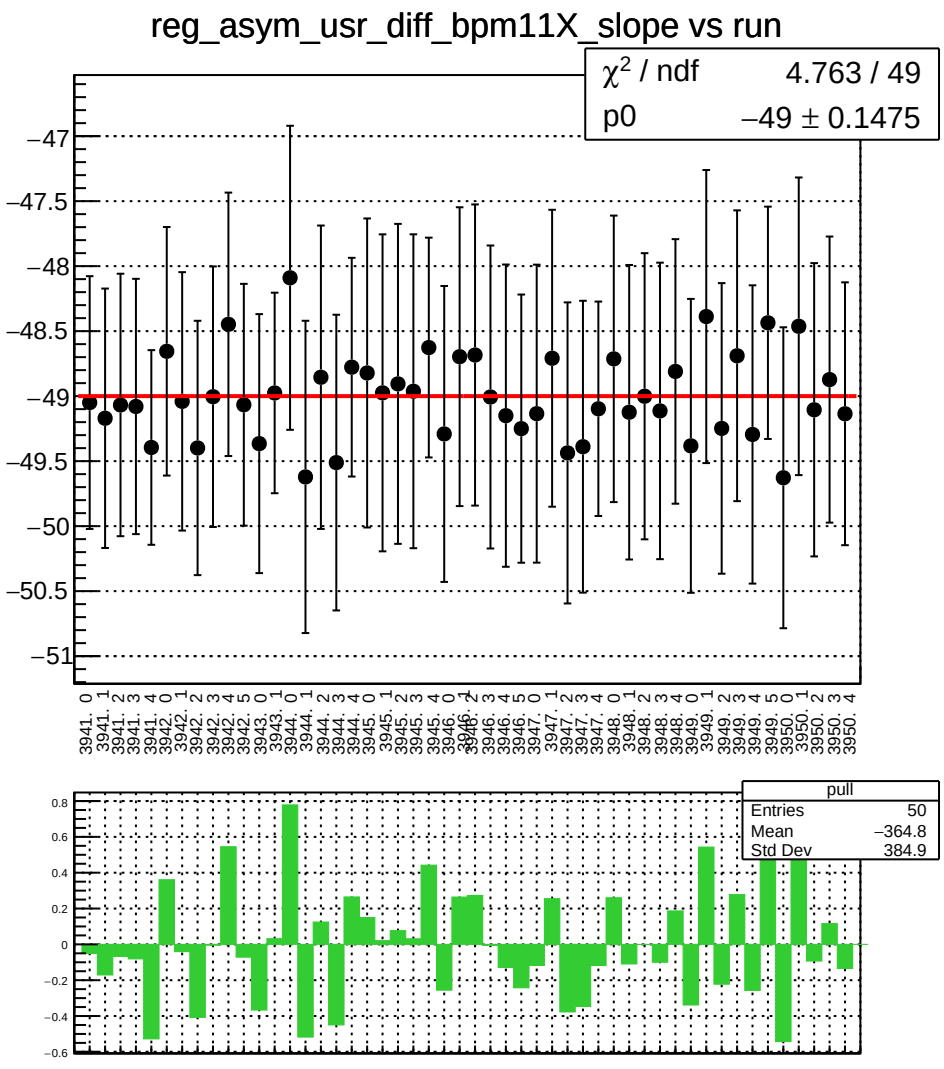

pull1D
Entries 50
Mean 0.0166
Std Dev 0.2965

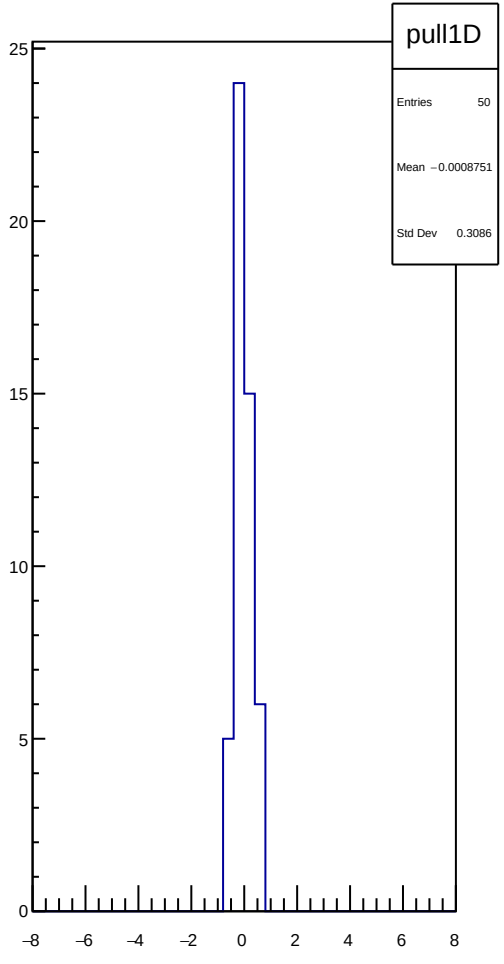

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 300.1 / 49
p0 34.49 ± 0.1167
pull
Entries 50
Mean 89.88
Std Dev 67.19

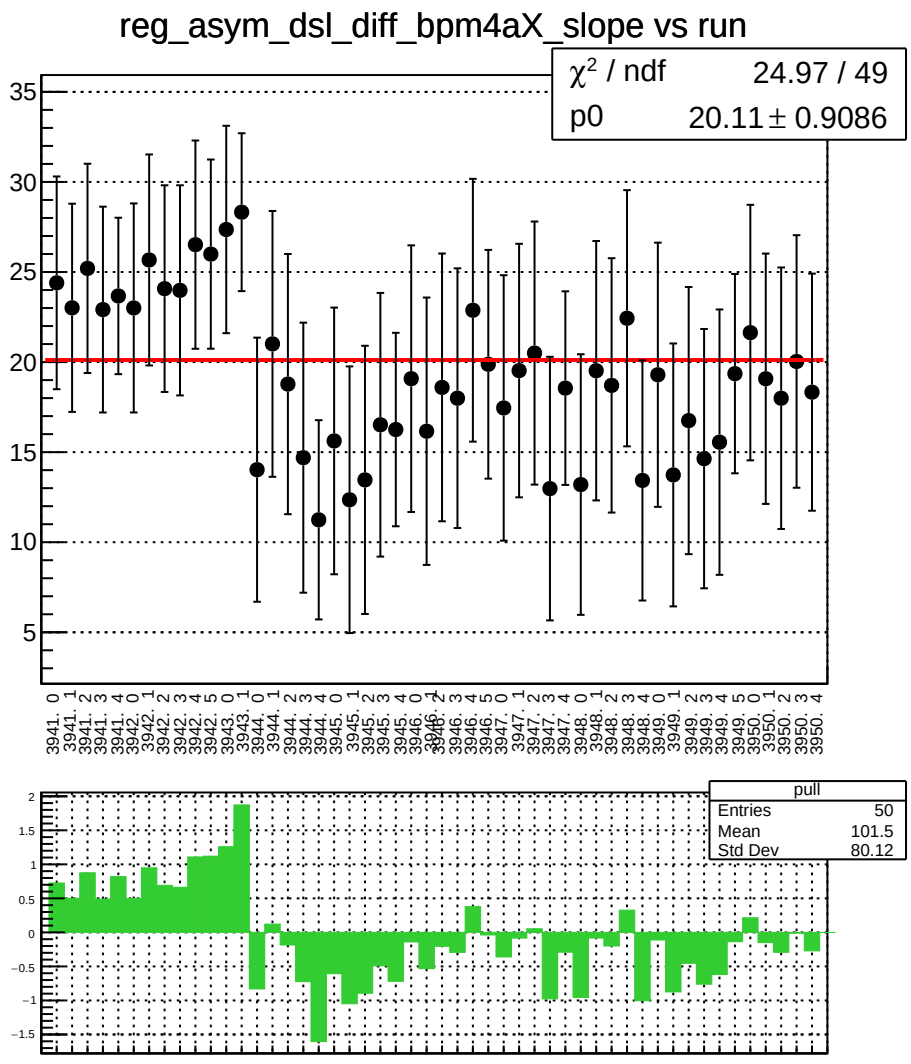

pull1D
Entries 50
Mean 0.4038
Std Dev 2.417

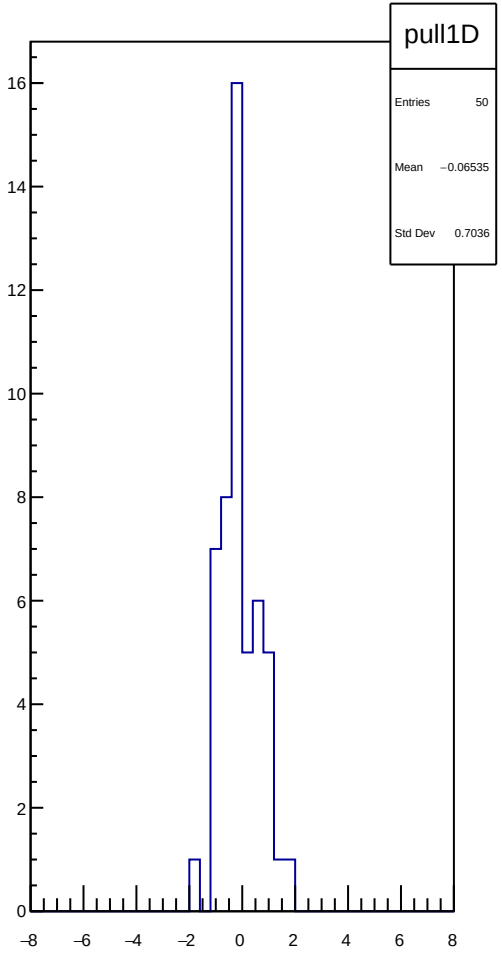

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 4.778 / 49
p0 −0.1743 ± 0.8701
pull
Entries 50
Mean 107.8
Std Dev 81.86

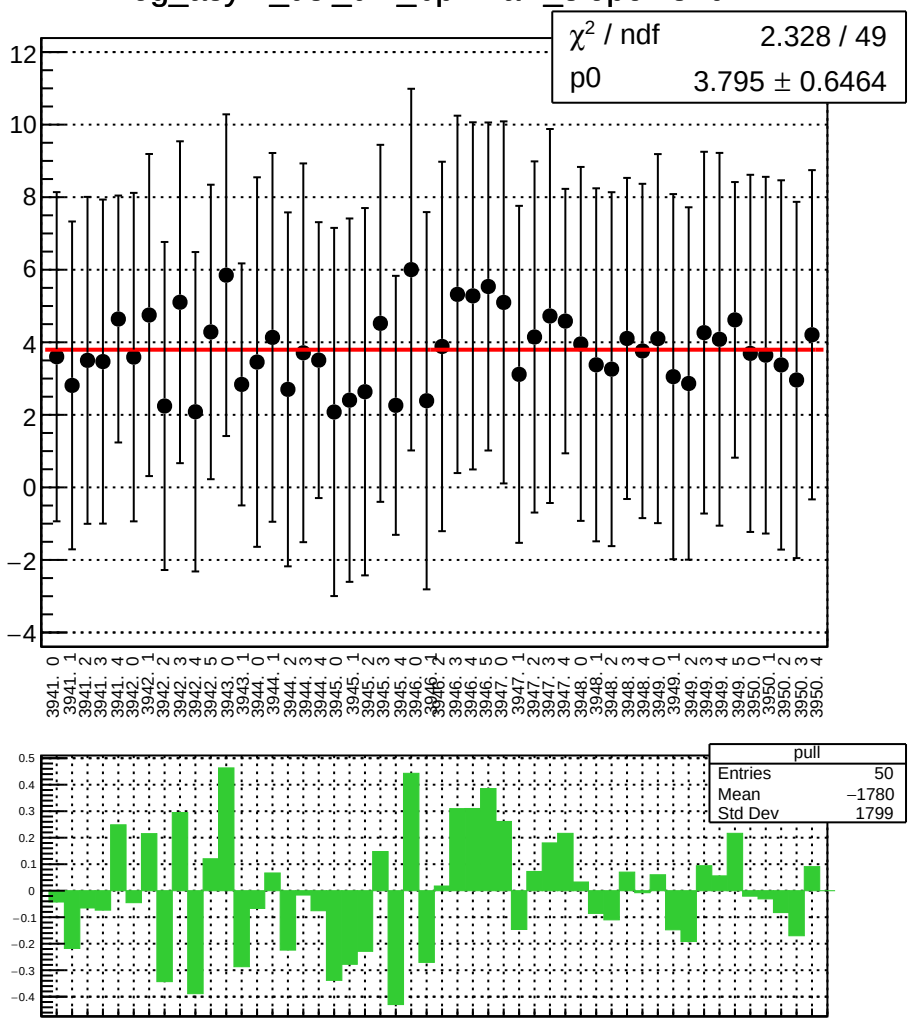

pull1D
Entries 50
Mean −0.01673
Std Dev 0.3087

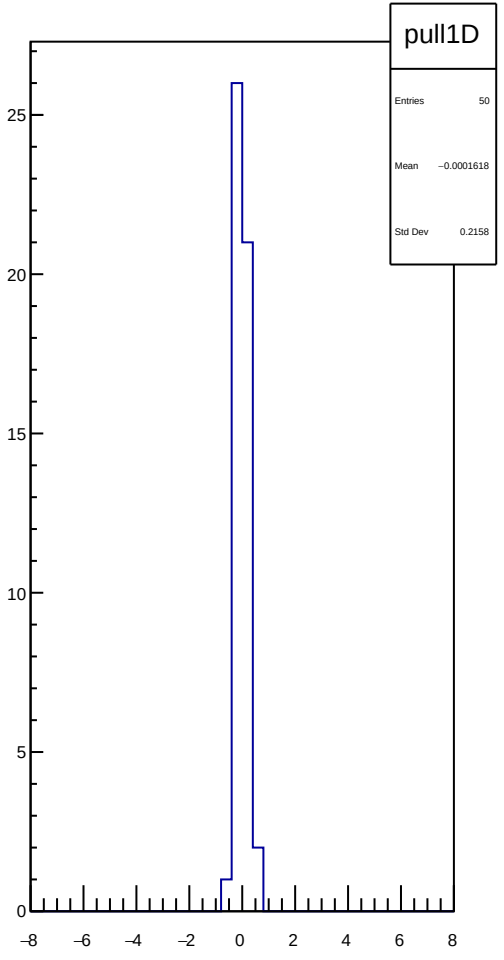

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 4.763 / 49
p0 −49 ± 0.1475
pull
Entries 50
Mean −364.8
Std Dev 384.9

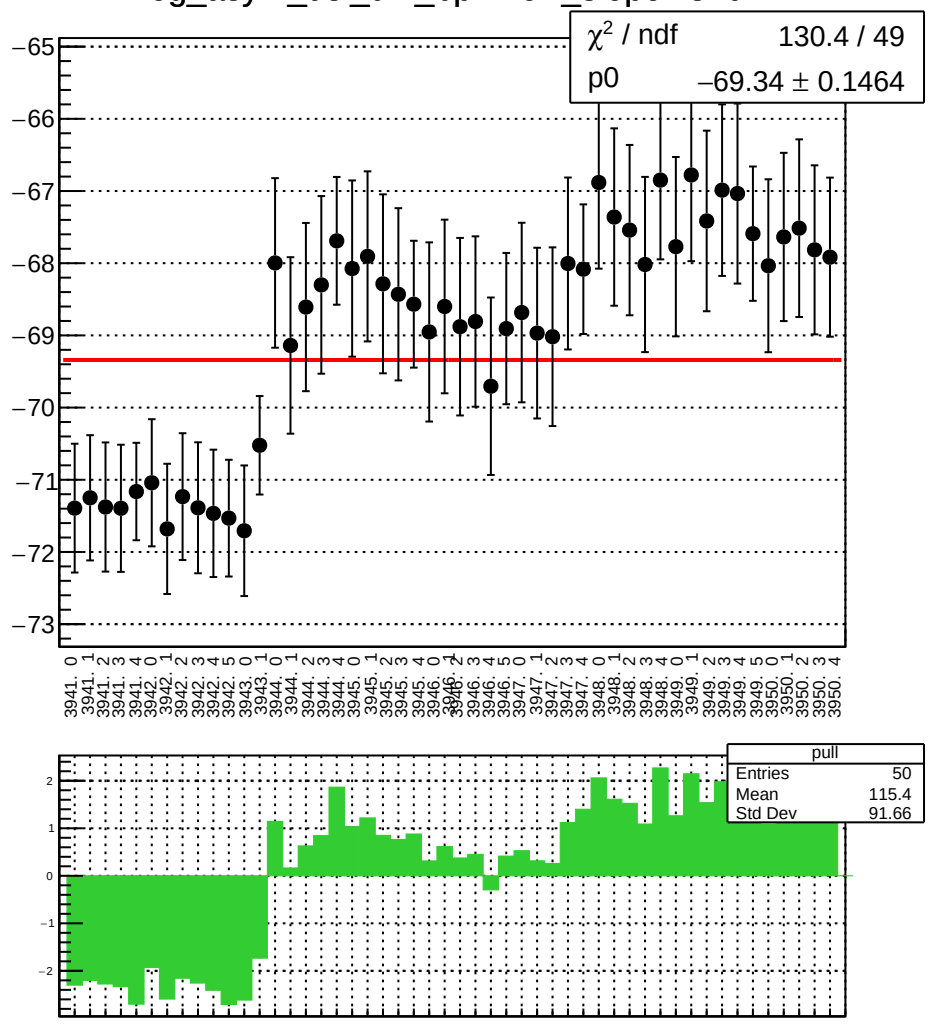

pull1D
Entries 50
Mean −0.0008751
Std Dev 0.3086

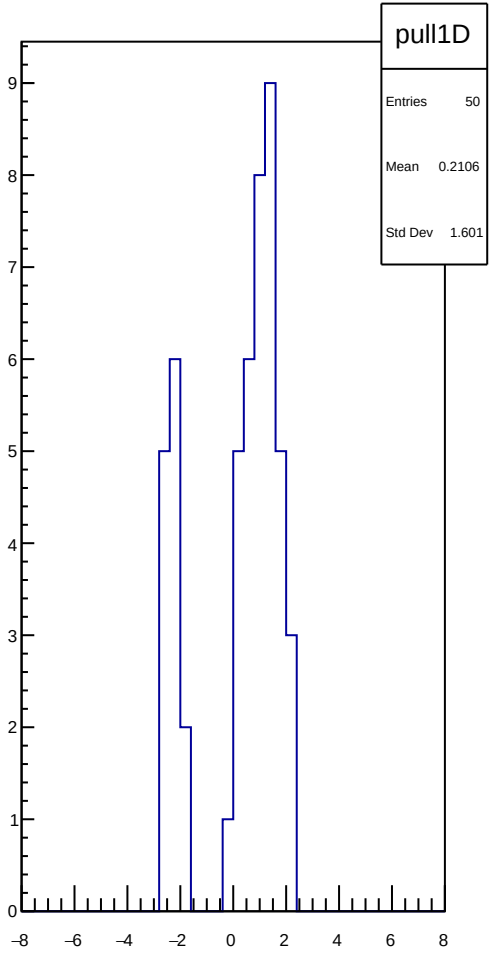

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 24.97 / 49
p0 20.11 ± 0.9086
pull
Entries 50
Mean 101.5
Std Dev 80.12

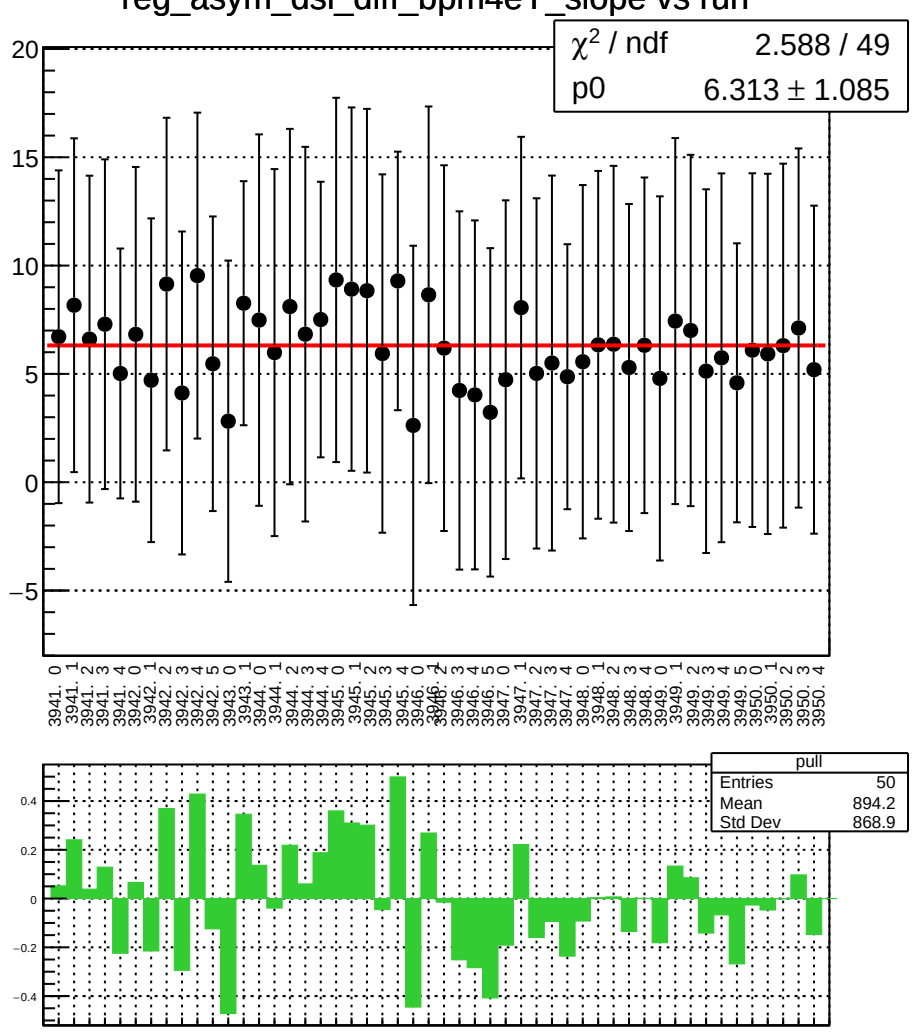

pull1D
Entries 50
Mean −0.06535
Std Dev 0.7036

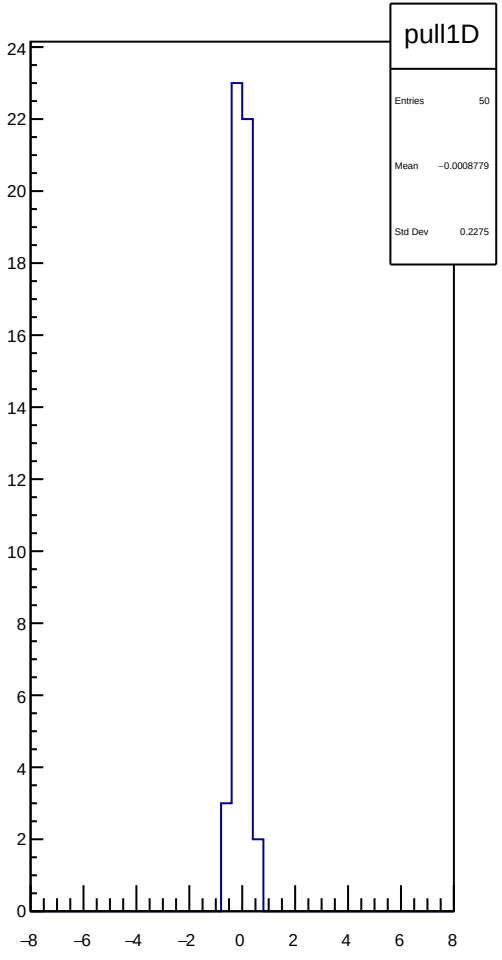

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 2.328 / 49
p0 3.795 ± 0.6464
pull
Entries 50
Mean −1780
Std Dev 1799

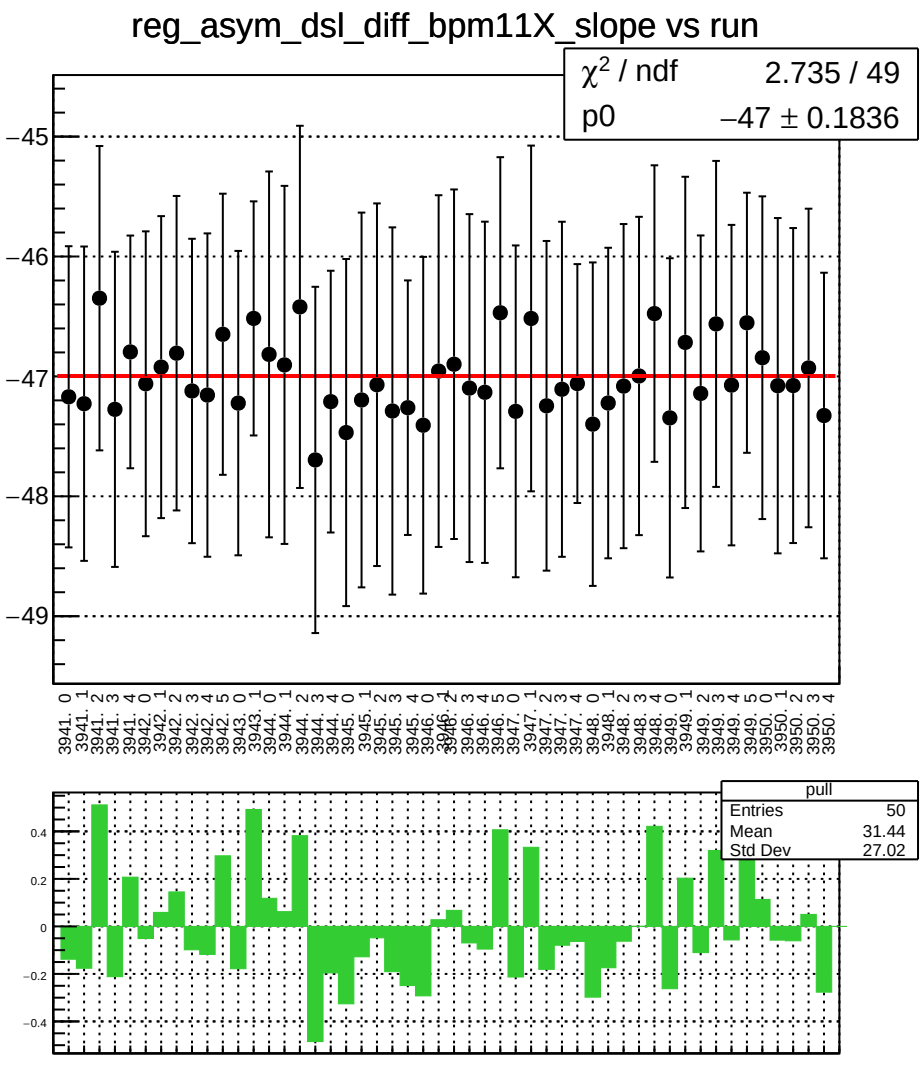

pull1D
Entries 50
Mean −0.0001618
Std Dev 0.2158

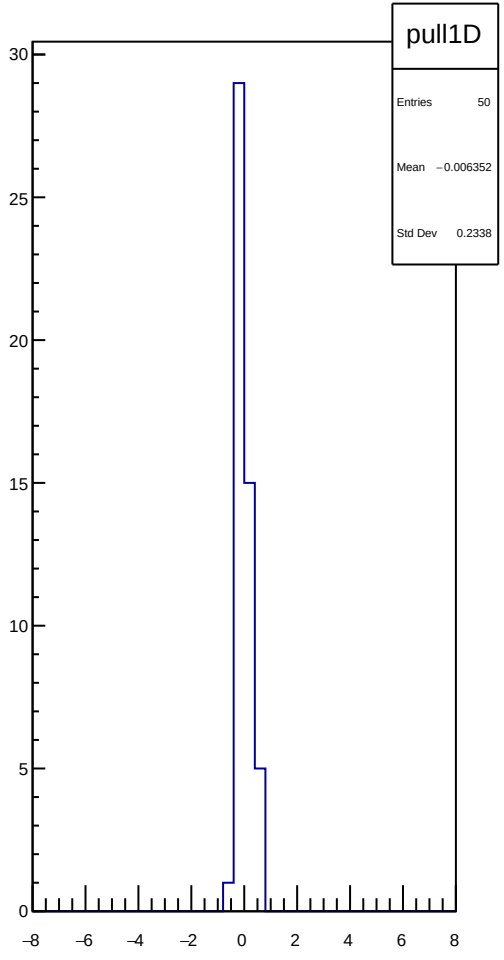

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 130.4 / 49
p0 −69.34 ± 0.1464
pull
Entries 50
Mean 115.4
Std Dev 91.66

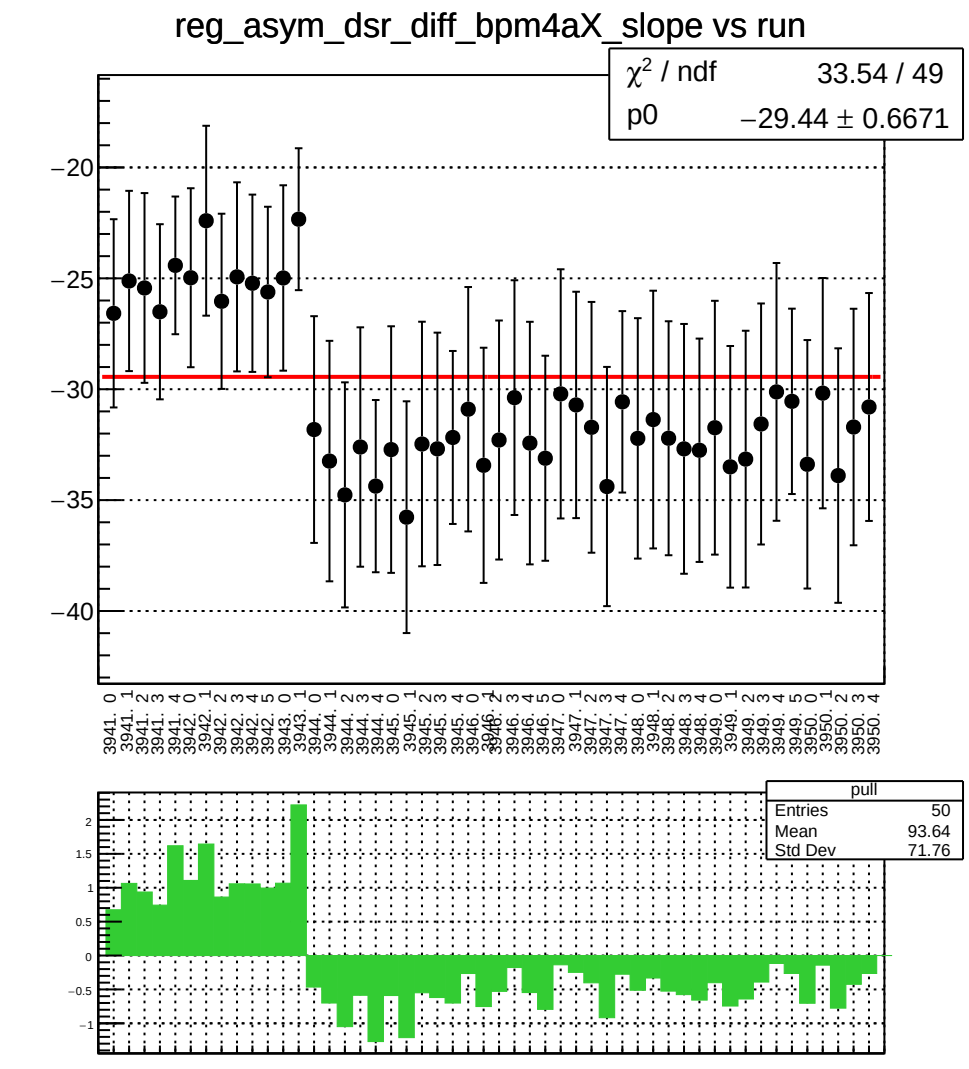

pull1D
Entries 50
Mean 0.2106
Std Dev 1.601

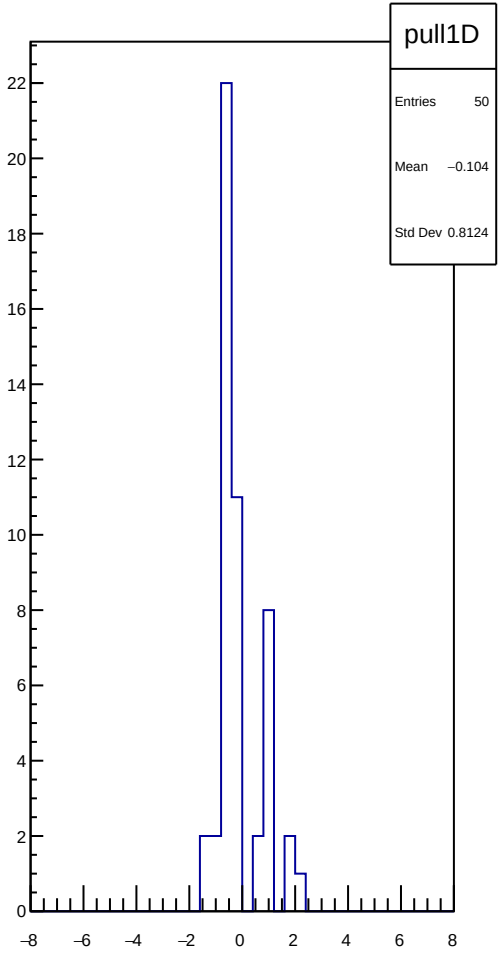

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 2.588 / 49
p0 6.313 ± 1.085
pull
Entries 50
Mean 894.2
Std Dev 868.9

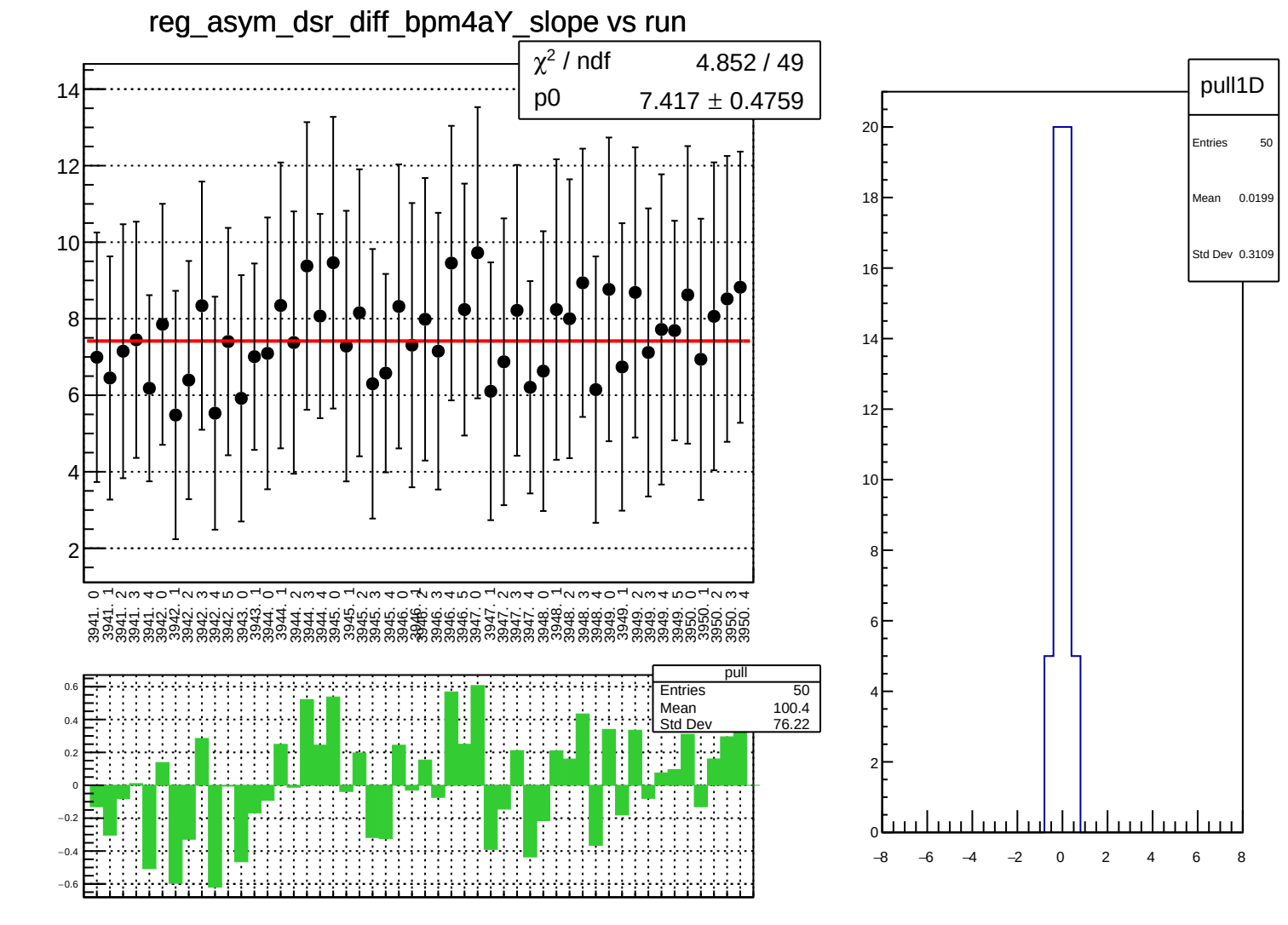

pull1D
Entries 50
Mean −0.0008779
Std Dev 0.2275

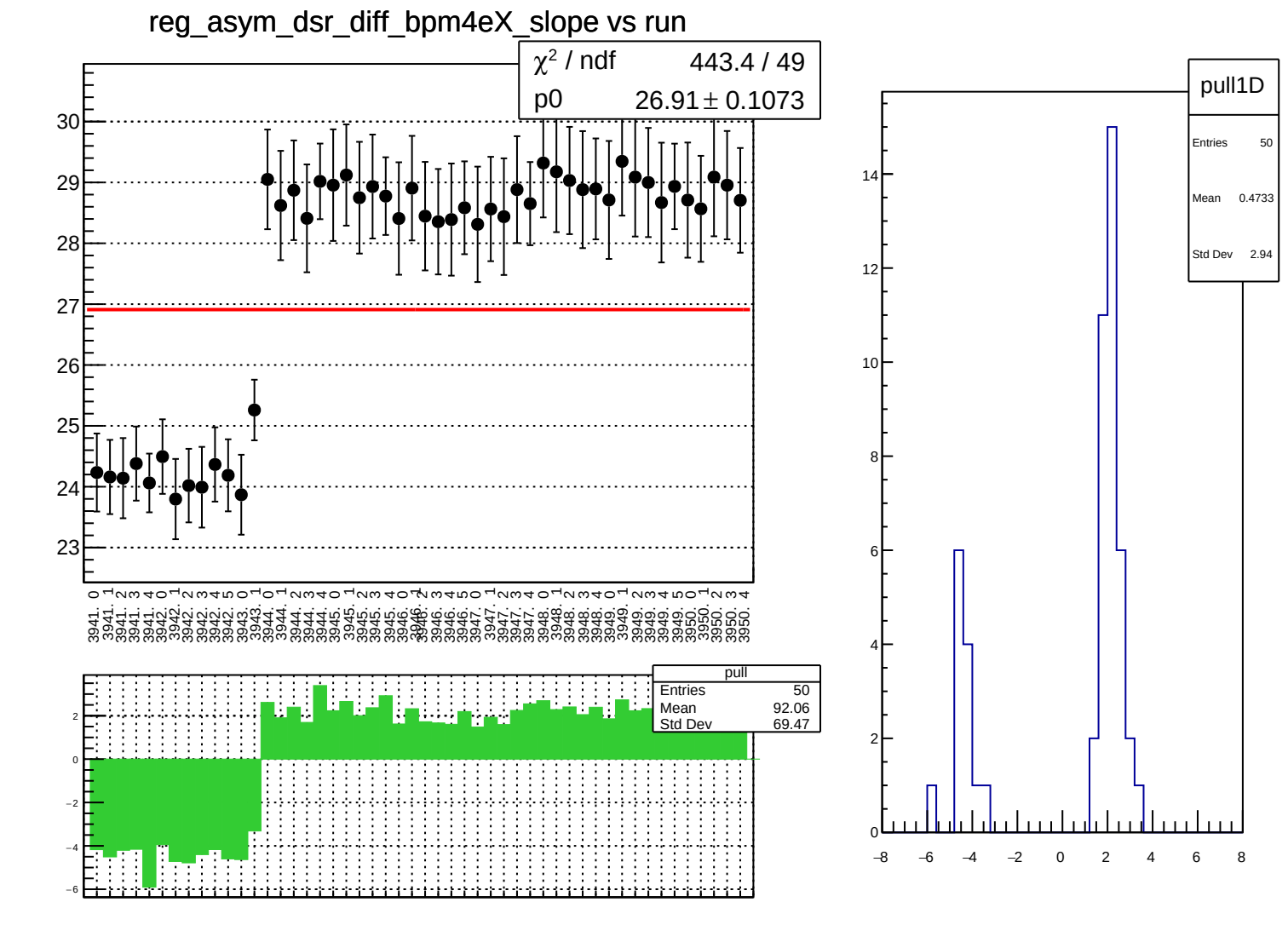

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 2.735 / 49
p0 −47 ± 0.1836
−45
−46
−47
−48
−49
pull
Entries 50
Mean 31.44
Std Dev 27.02
0.4
0.2
0
−0.2
−0.4

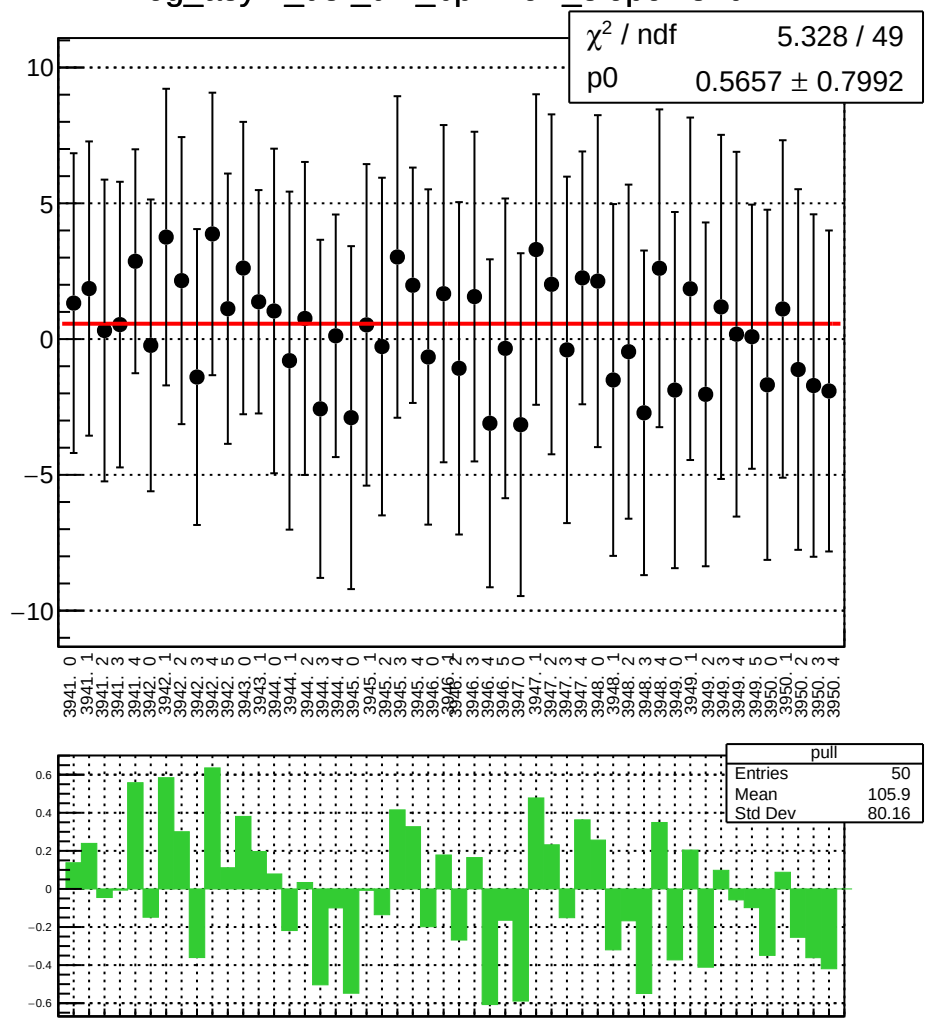

pull1D
Entries 50
Mean −0.006352
Std Dev 0.2338
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

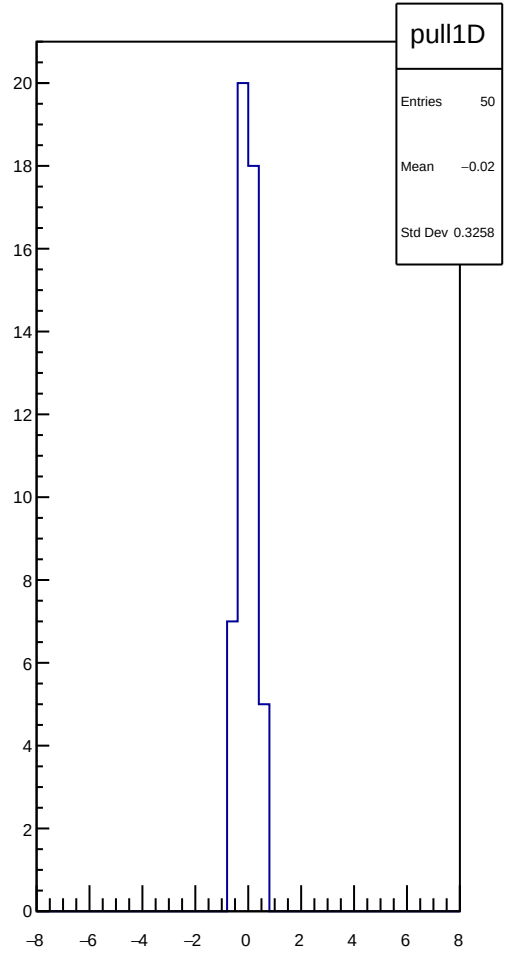

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 33.54 / 49
p0 −29.44 ± 0.6671
pull
Entries 50
Mean 93.64
Std Dev 71.76

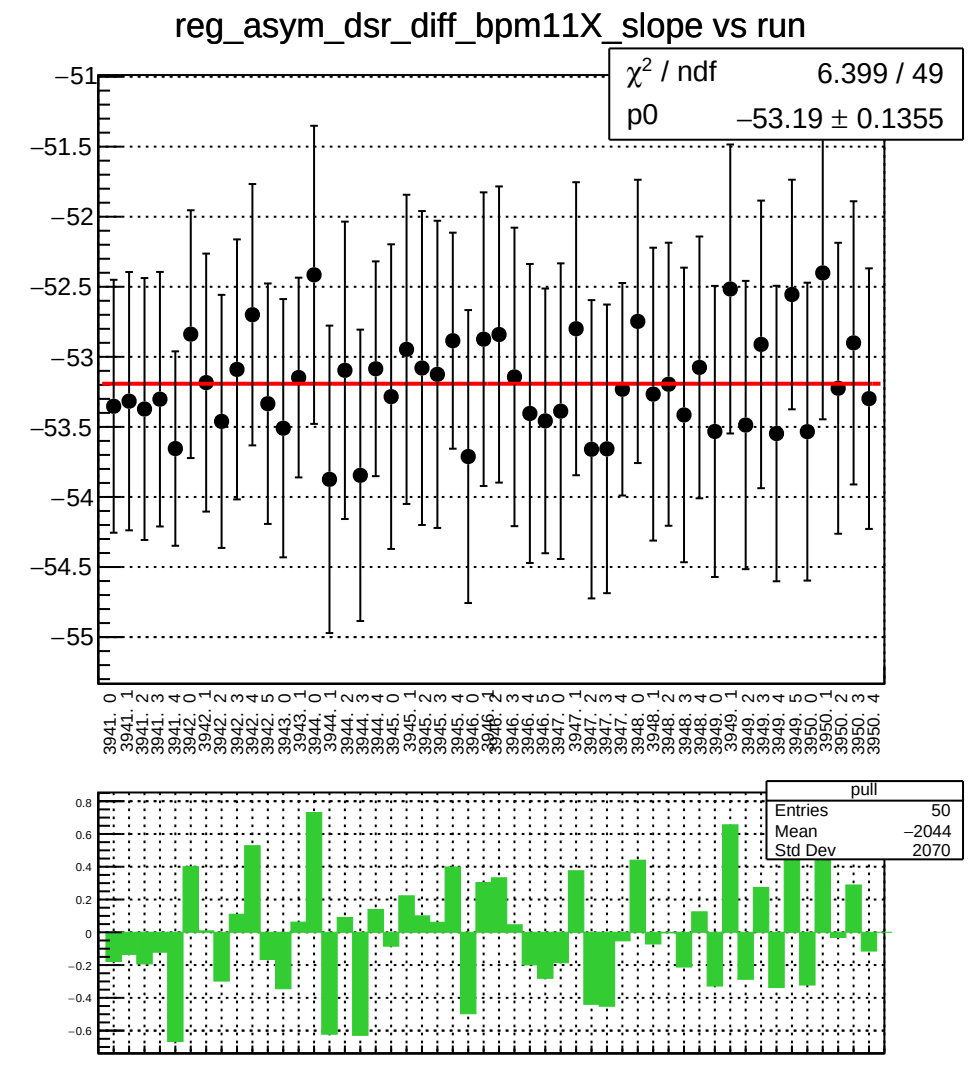

pull1D
Entries 50
Mean −0.104
Std Dev 0.8124

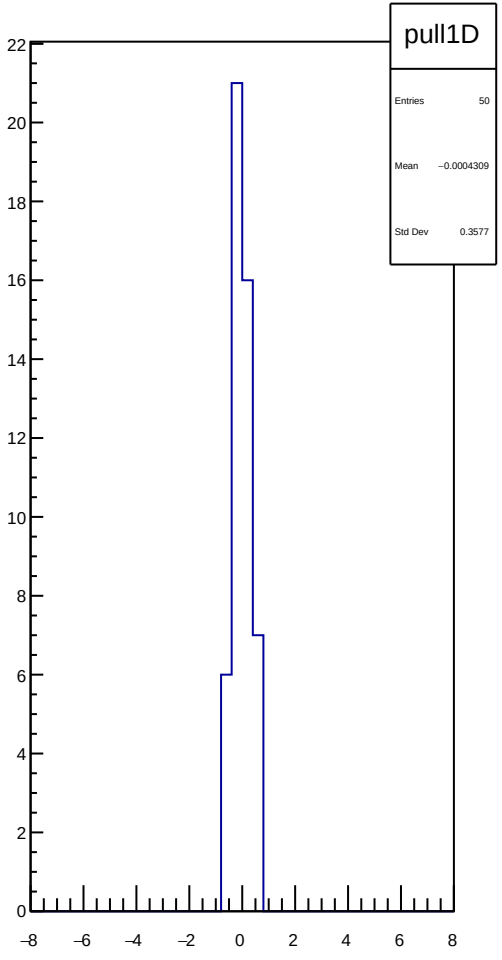

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 4.852 / 49
p0 7.417 ± 0.4759
pull
Entries 50
Mean 100.4
Std Dev 76.22
pull1D
Entries 50
Mean 0.0199
Std Dev 0.3109

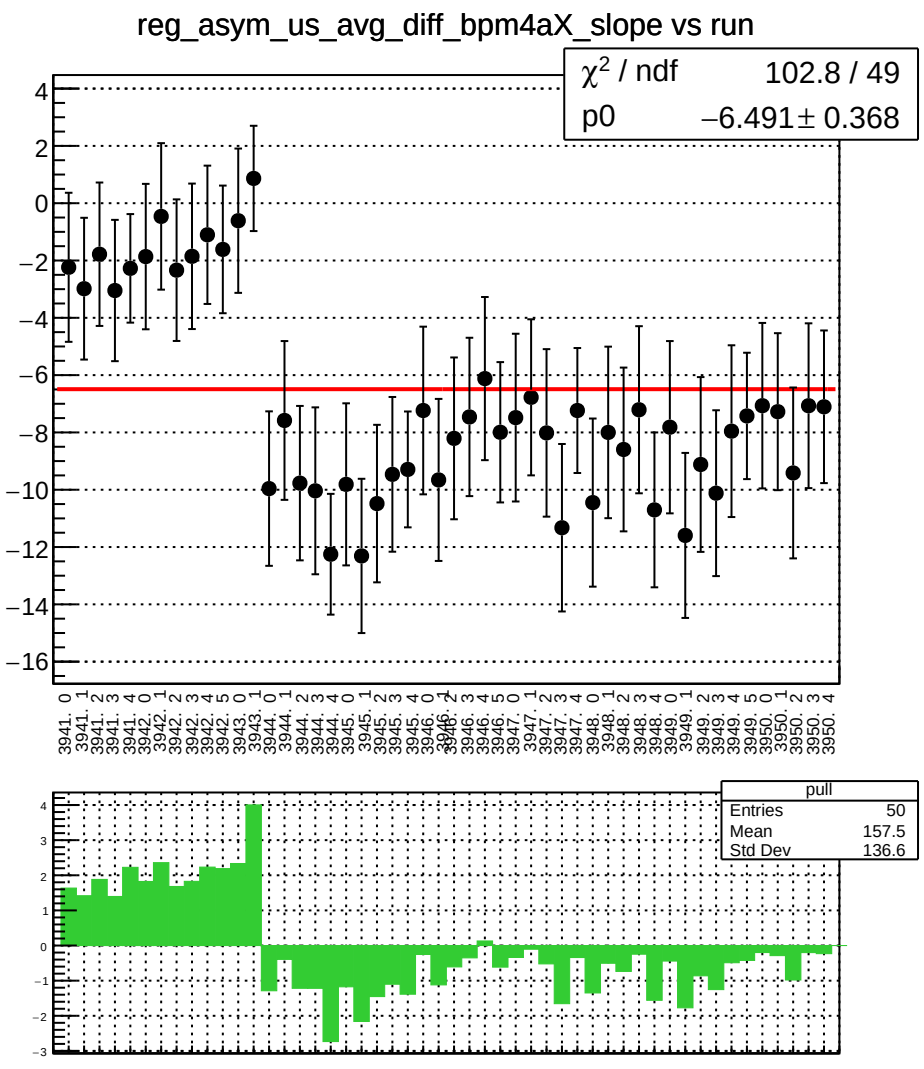

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 443.4 / 49
p0 26.91 ± 0.1073
pull
Entries 50
Mean 92.06
Std Dev 69.47
pull1D
Entries 50
Mean 0.4733
Std Dev 2.94

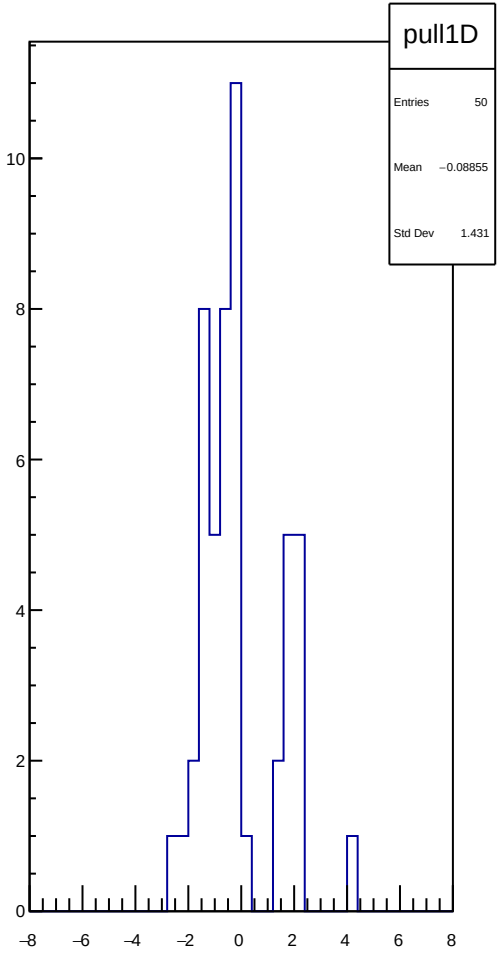

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 5.328 / 49
p0 0.5657 ± 0.7992
pull
Entries 50
Mean 105.9
Std Dev 80.16

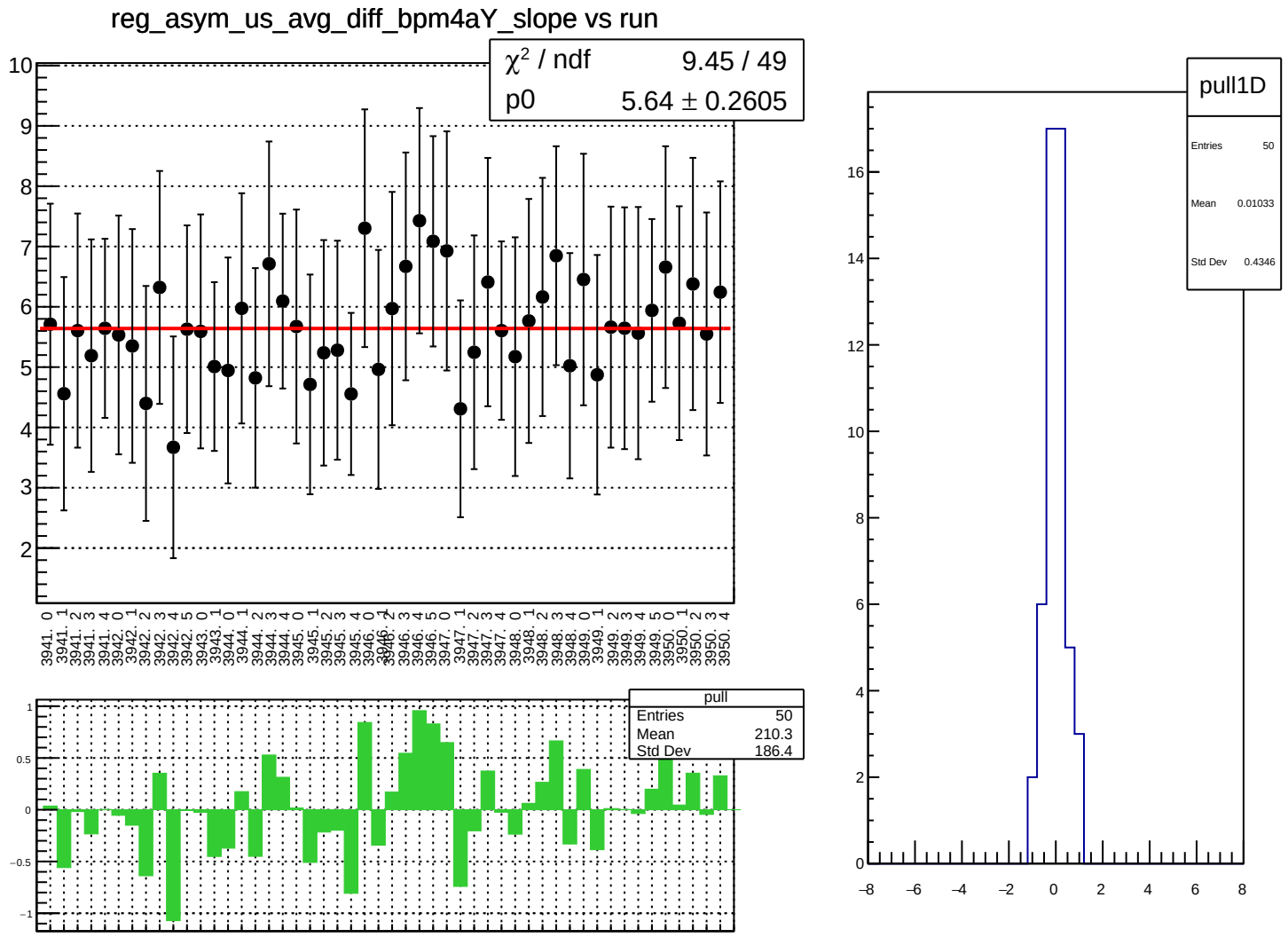

pull1D
Entries 50
Mean −0.02
Std Dev 0.3258

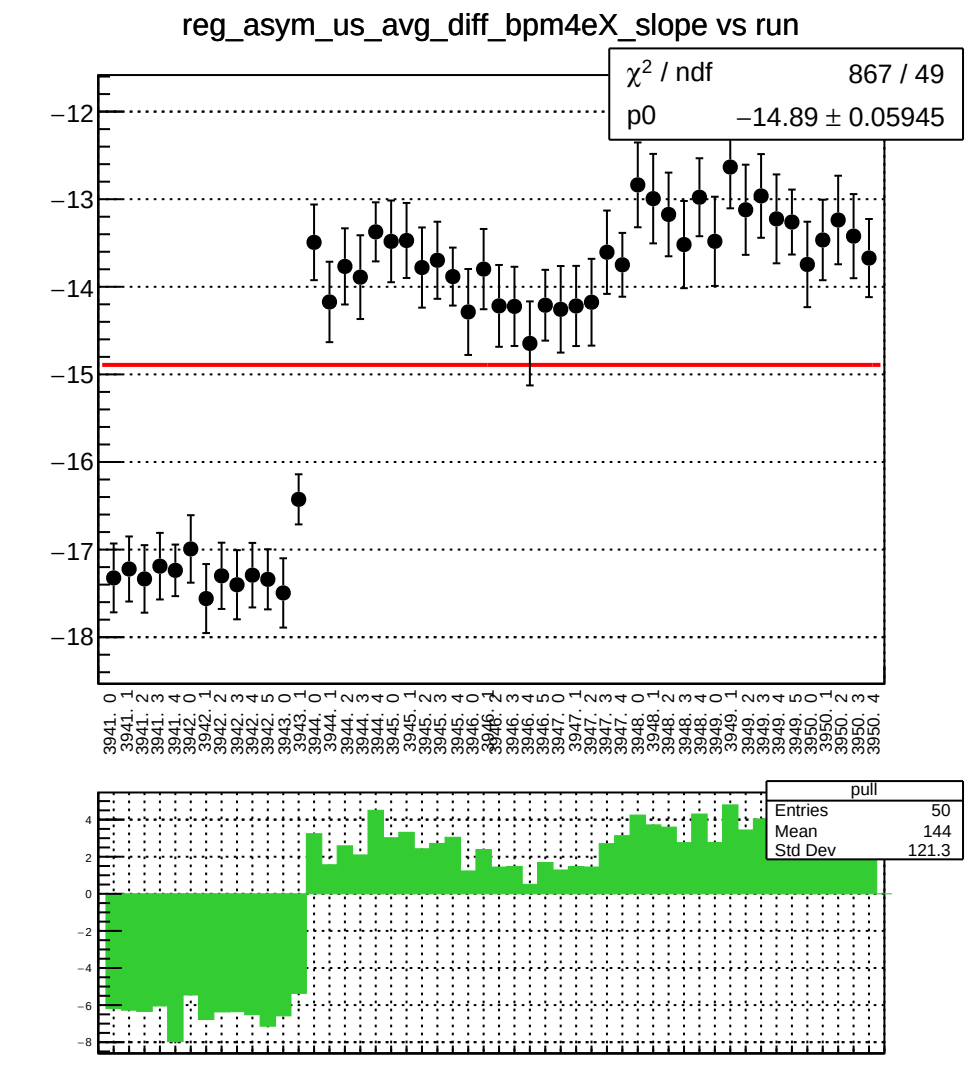

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 6.399 / 49
p0 −53.19 ± 0.1355
pull
Entries 50
Mean −2044
Std Dev 2070

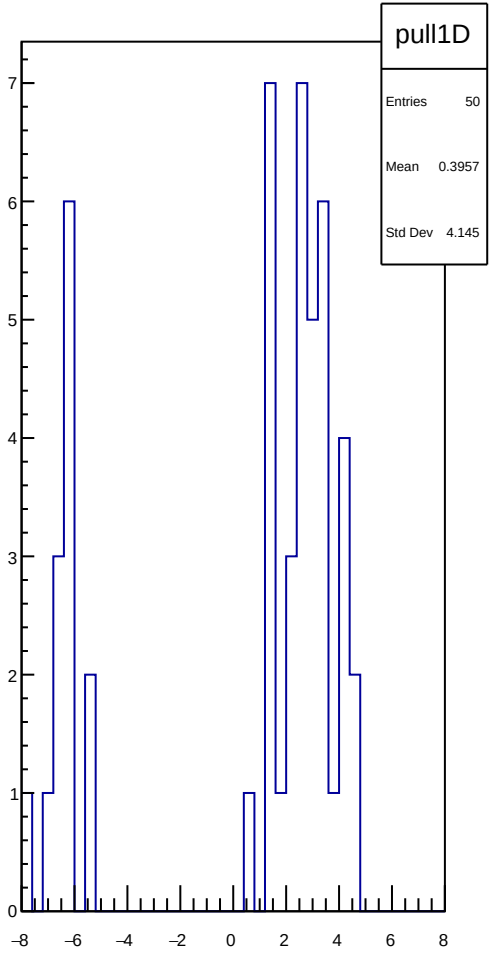

pull1D
Entries 50
Mean −0.0004309
Std Dev 0.3577

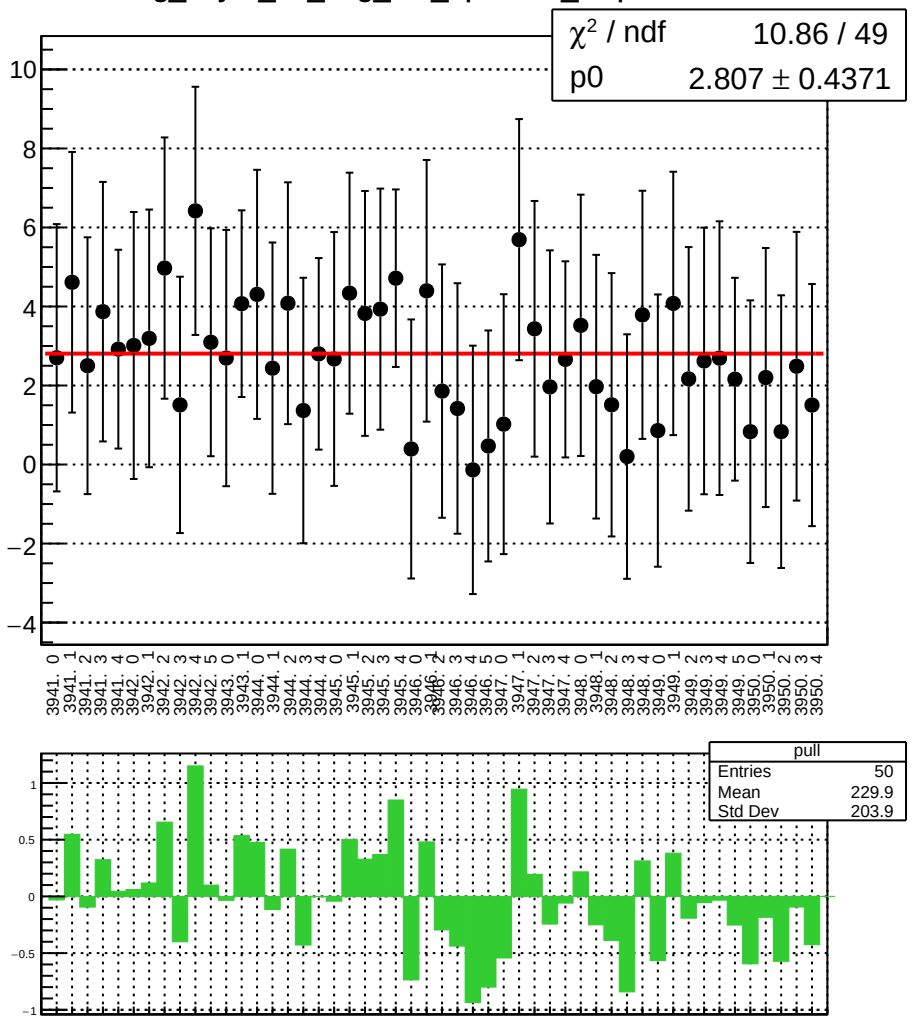

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 102.8 / 49
p0 −6.491 ± 0.368
pull
Entries 50
Mean 157.5
Std Dev 136.6

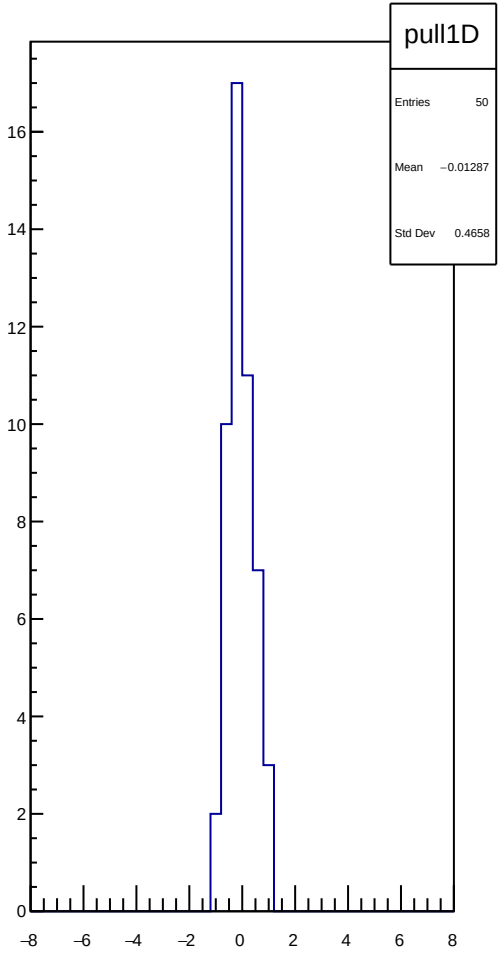

pull1D
Entries 50
Mean −0.08855
Std Dev 1.431

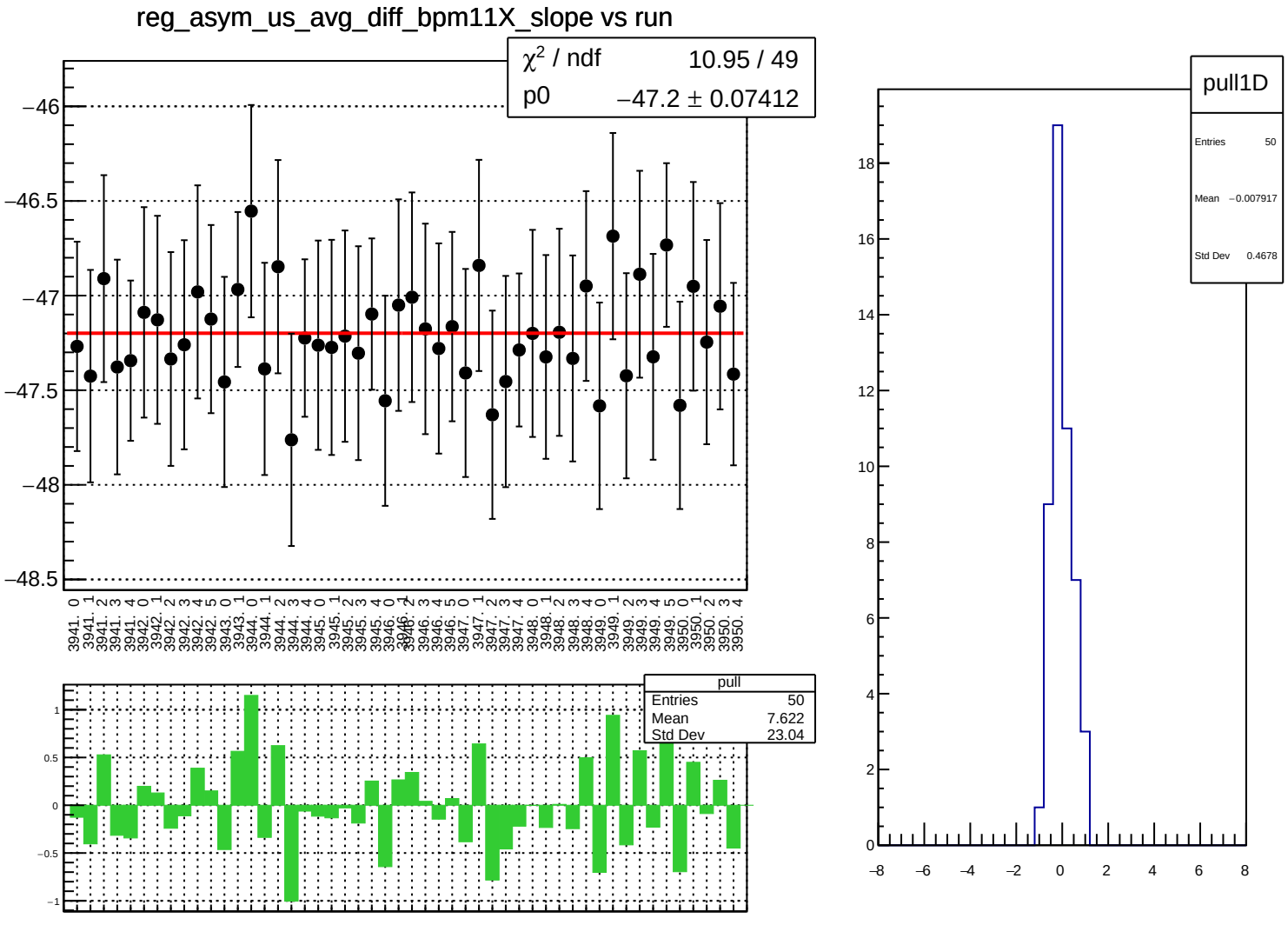

reg_asym_us_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 9.45 / 49
p0 5.64 ± 0.2605
pull
Entries 50
Mean 210.3
Std Dev 186.4
pull1D
Entries 50
Mean 0.01033
Std Dev 0.4346

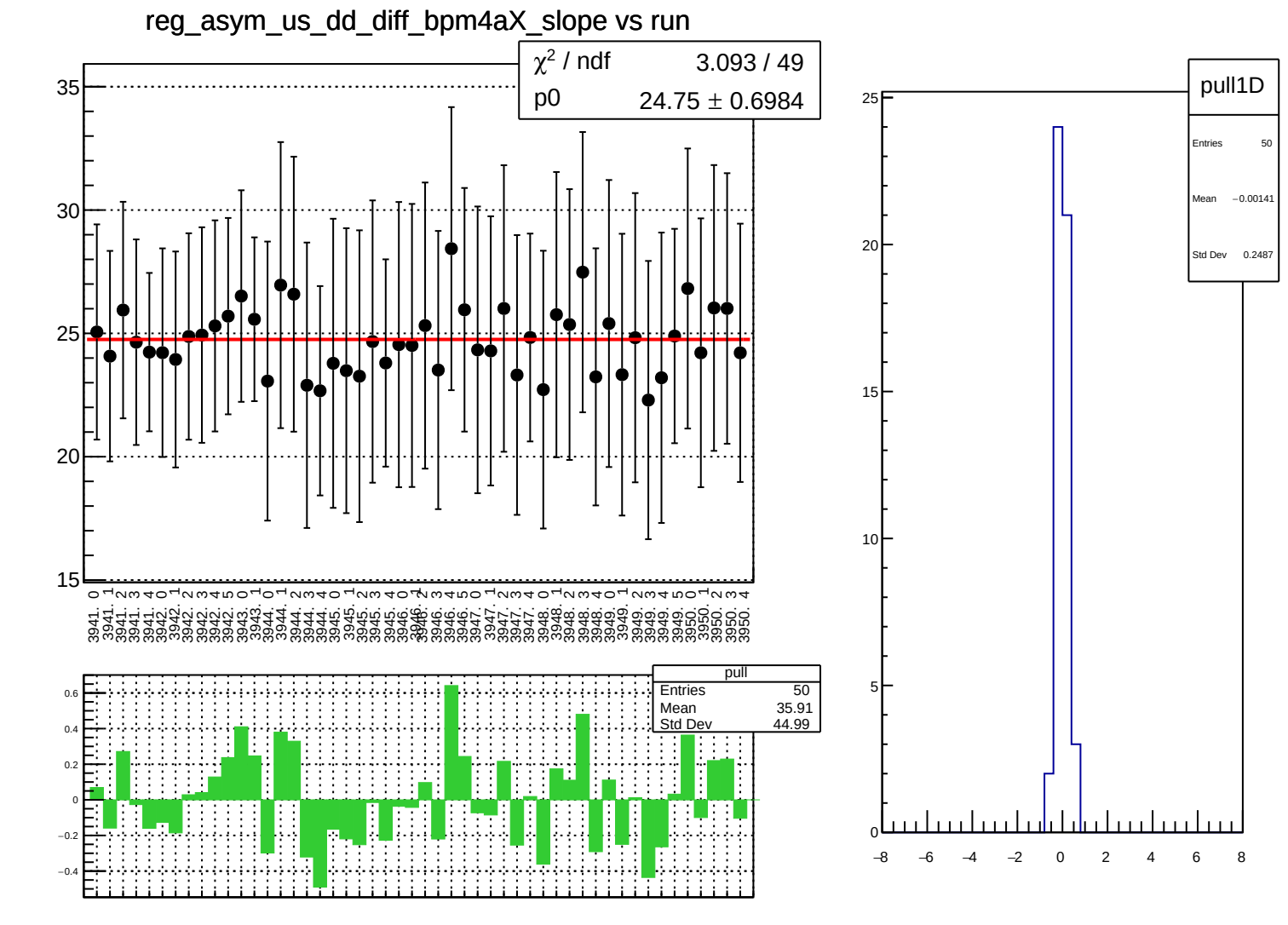

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 867 / 49
p0 −14.89 ± 0.05945
pull
Entries 50
Mean 144
Std Dev 121.3

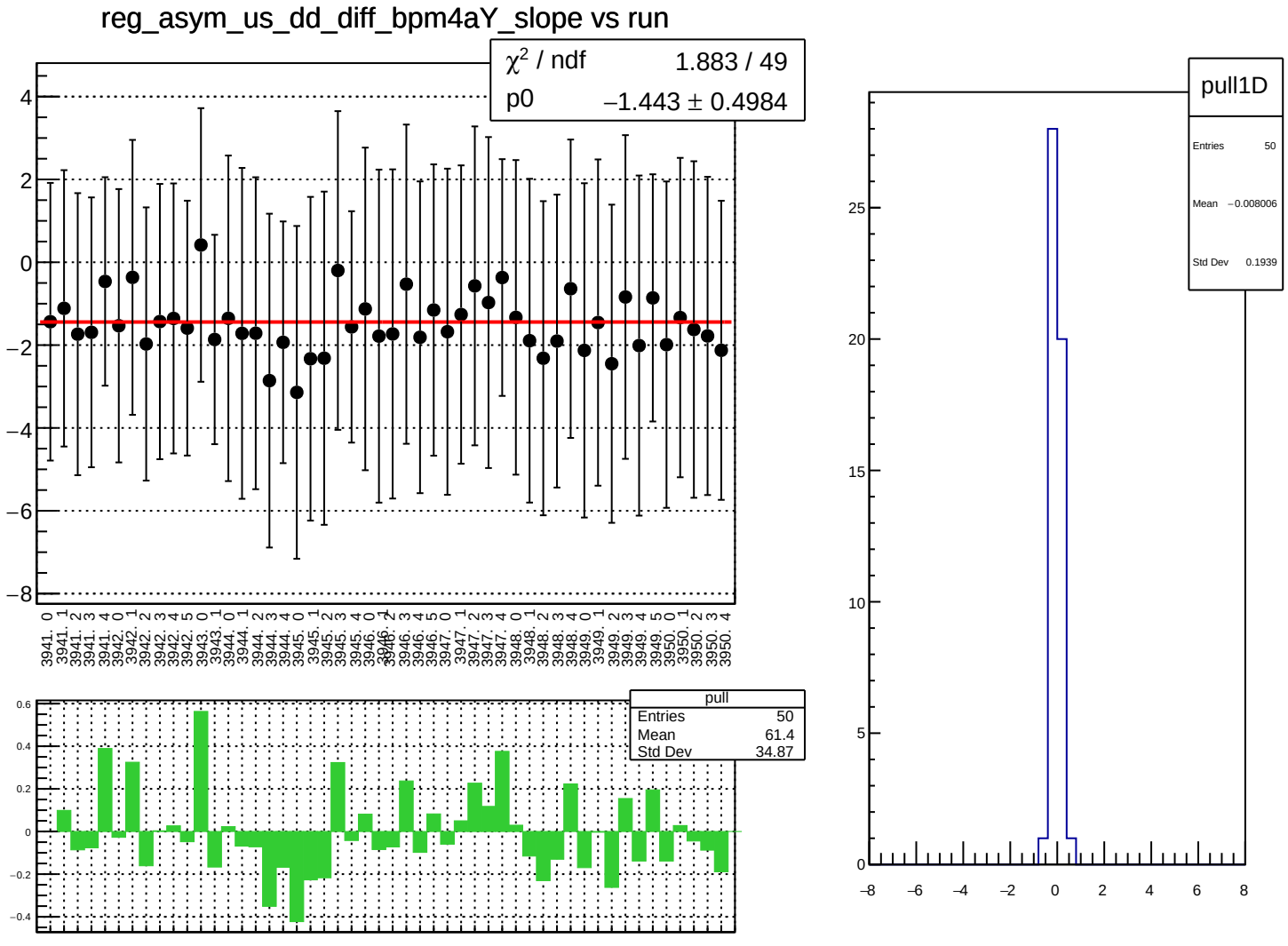

pull1D
Entries 50
Mean 0.3957
Std Dev 4.145

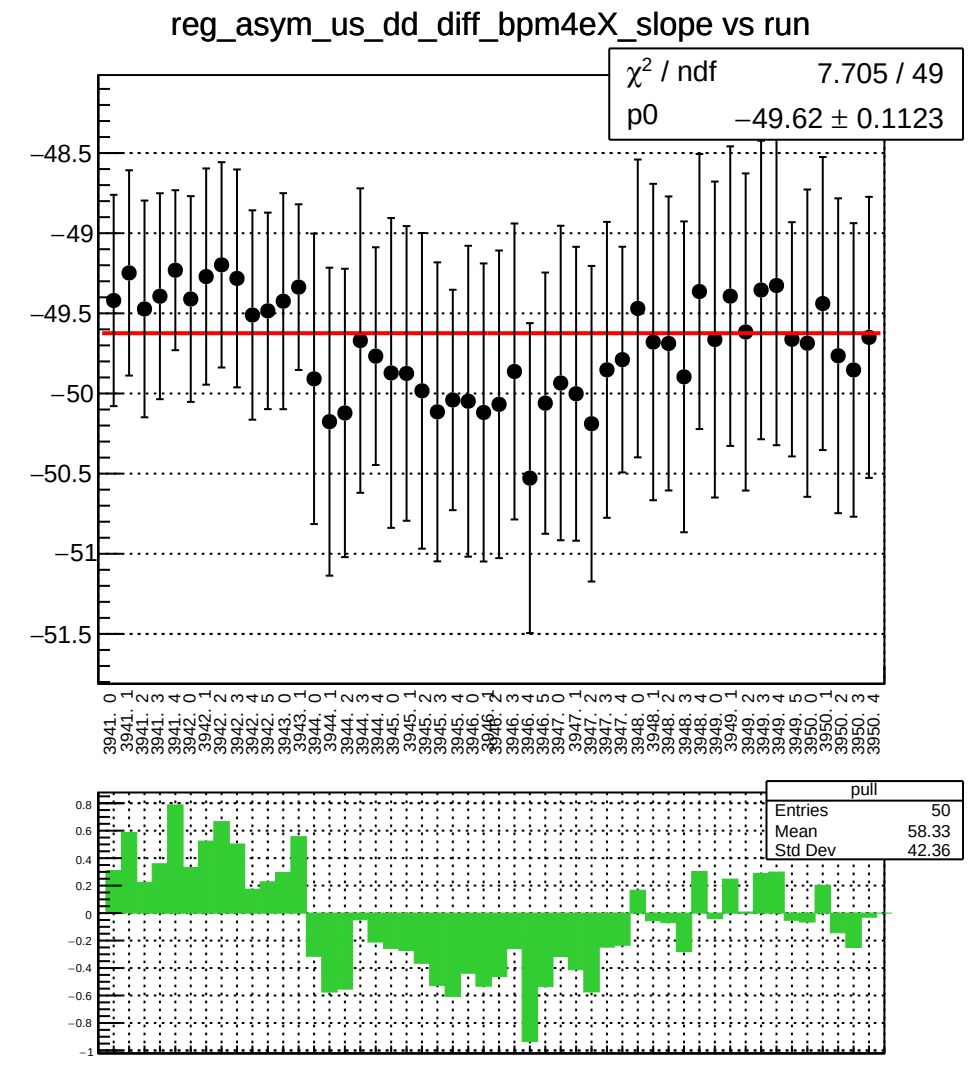

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.86 / 49
p0 2.807 ± 0.4371
pull
Entries 50
Mean 229.9
Std Dev 203.9

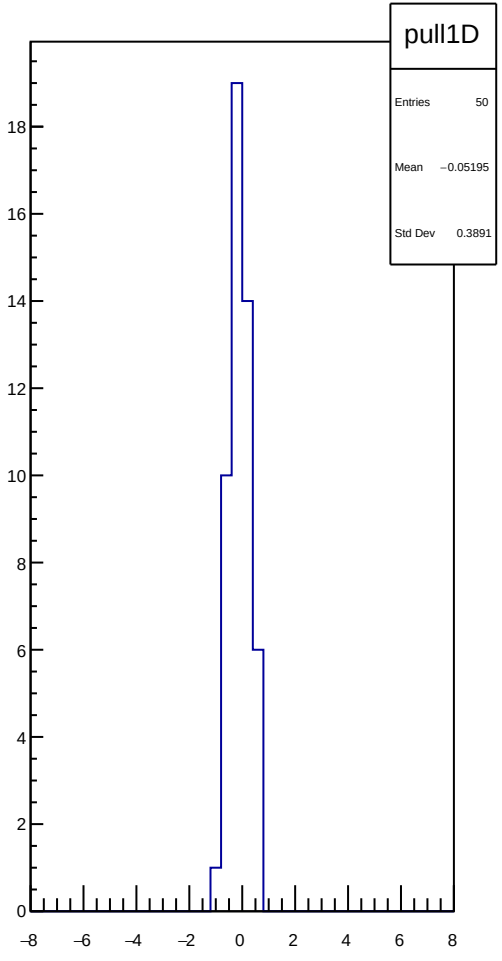

pull1D
Entries 50
Mean −0.01287
Std Dev 0.4658

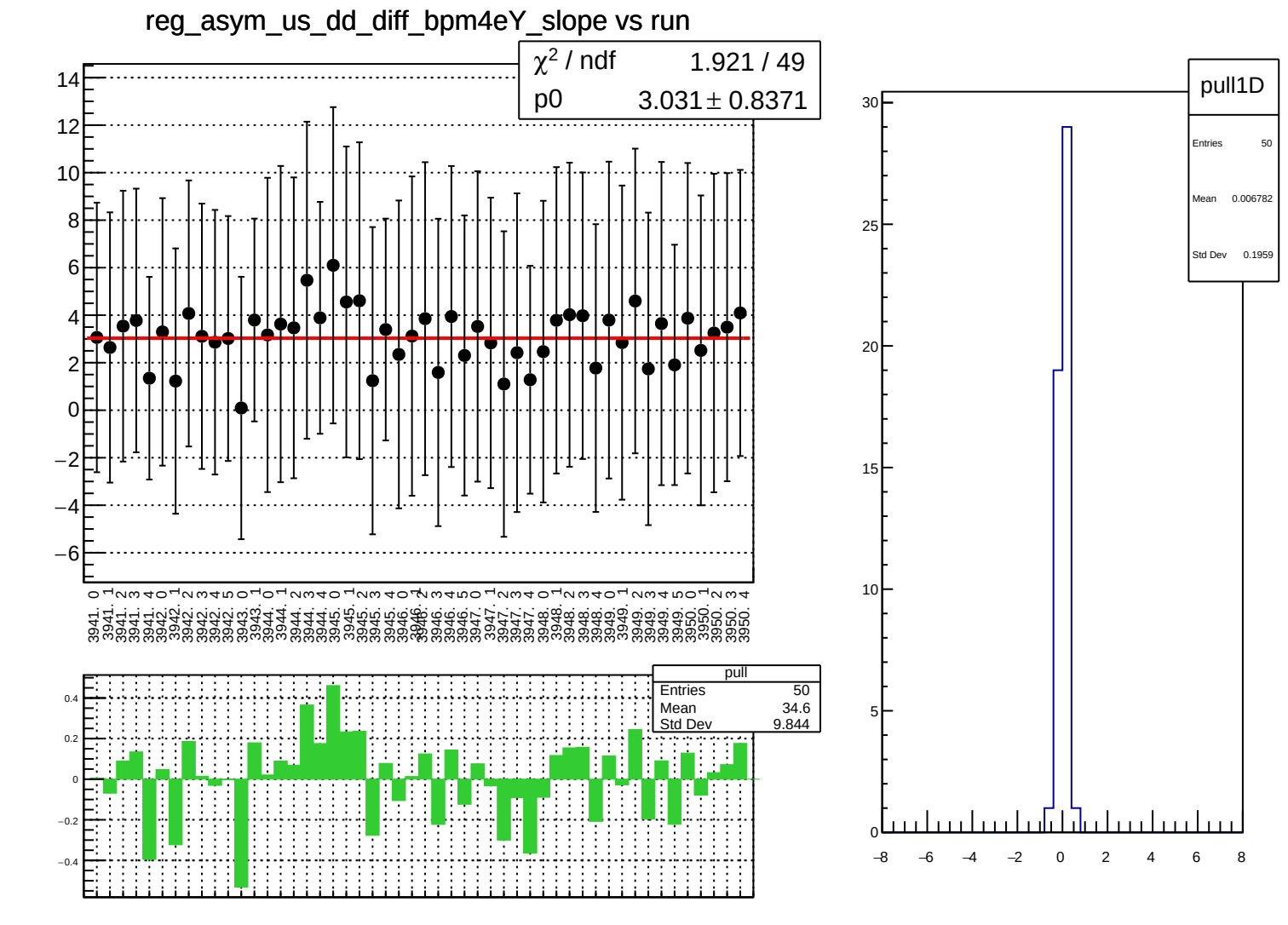

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 10.95 / 49
p0 −47.2 ± 0.07412
−46
−46.5
−47
−47.5
−48
−48.5
pull
Entries 50
Mean 7.622
Std Dev 23.04
pull1D
Entries 50
Mean −0.007917
Std Dev 0.4678

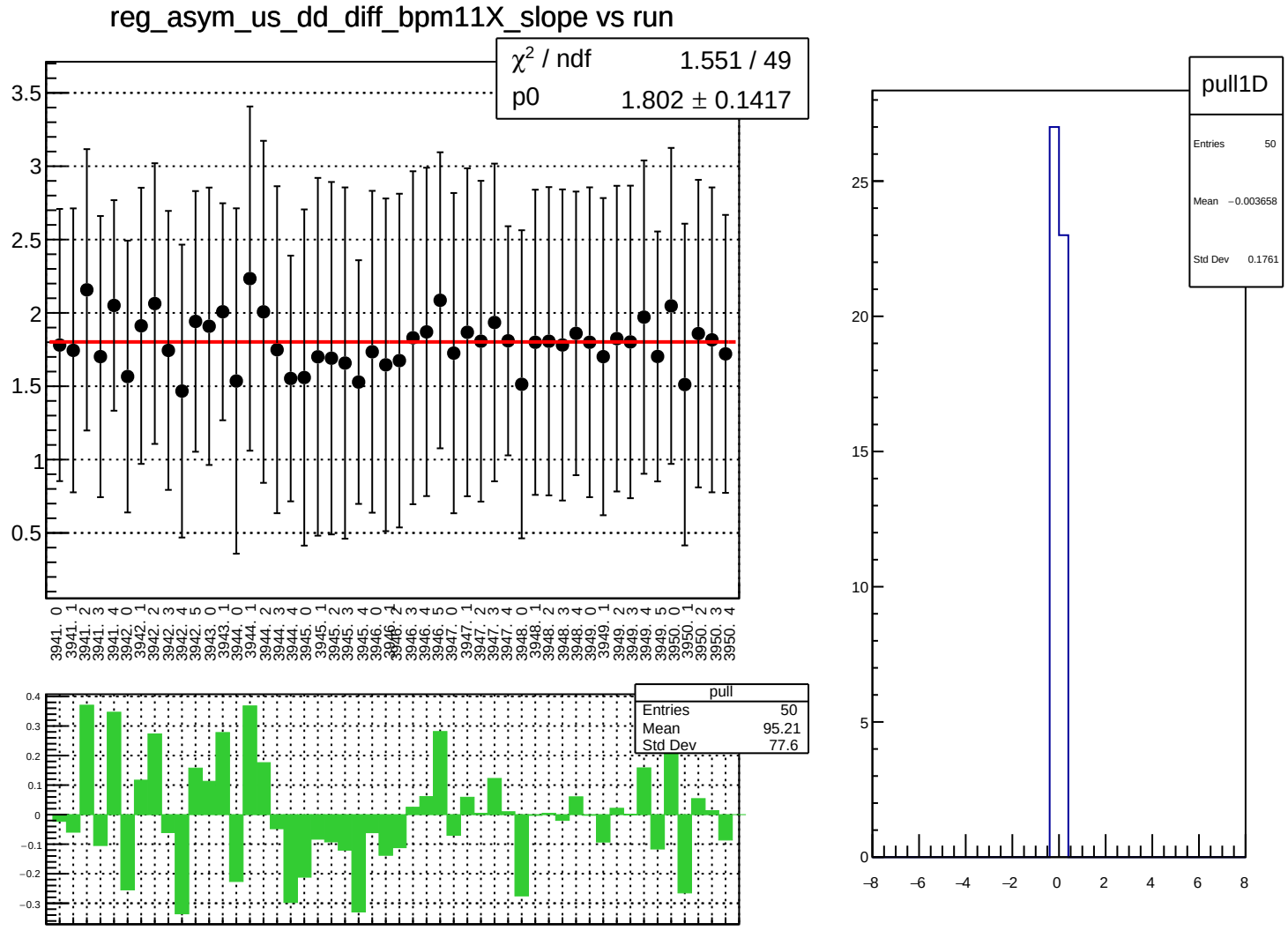

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.093 / 49
p0 24.75 ± 0.6984
pull
Entries 50
Mean 35.91
Std Dev 44.99
pull1D
Entries 50
Mean −0.00141
Std Dev 0.2487

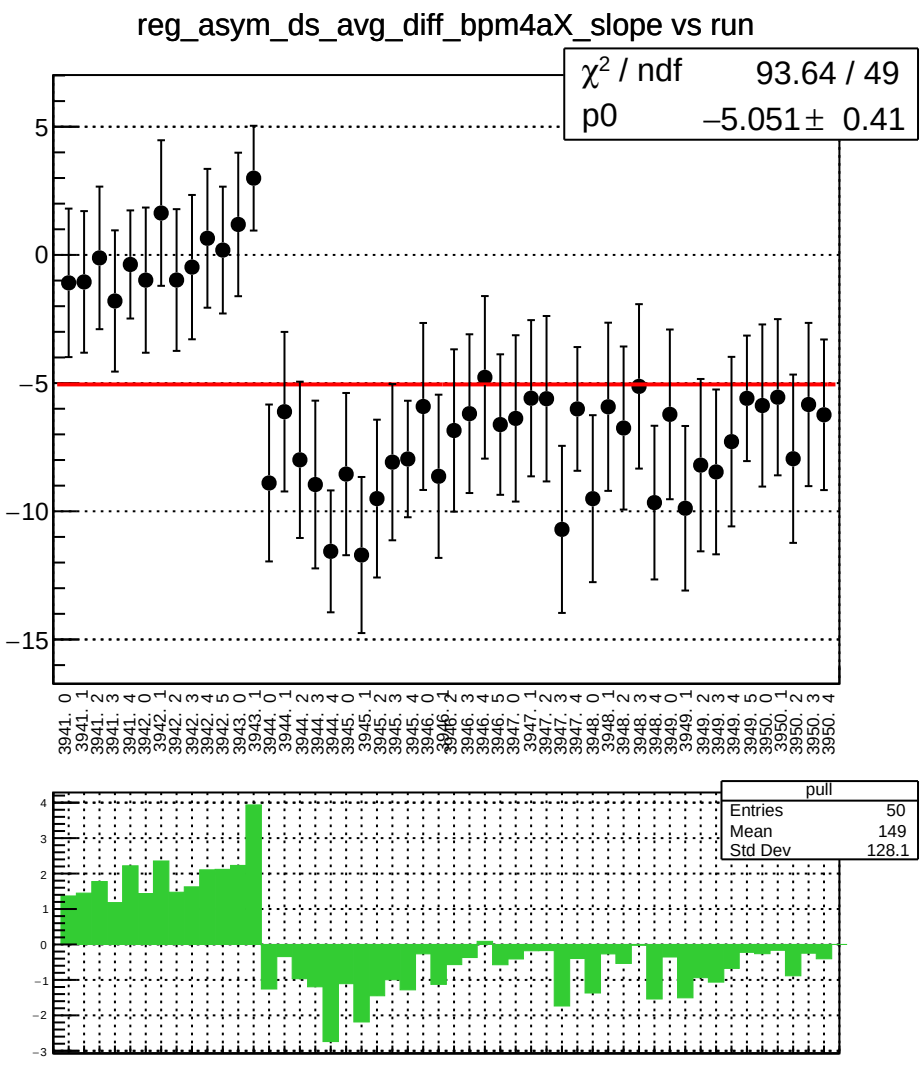

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.883 / 49
p0 −1.443 ± 0.4984
pull
Entries 50
Mean 61.4
Std Dev 34.87
pull1D
Entries 50
Mean −0.008006
Std Dev 0.1939

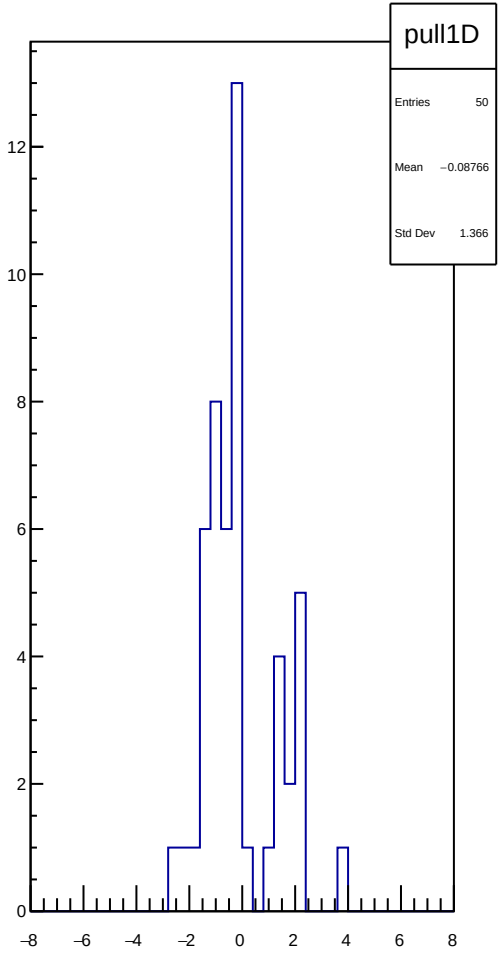

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.705 / 49
p0 −49.62 ± 0.1123
−48.5
−49
−49.5
−50
−50.5
−51
−51.5
pull
Entries 50
Mean 58.33
Std Dev 42.36
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

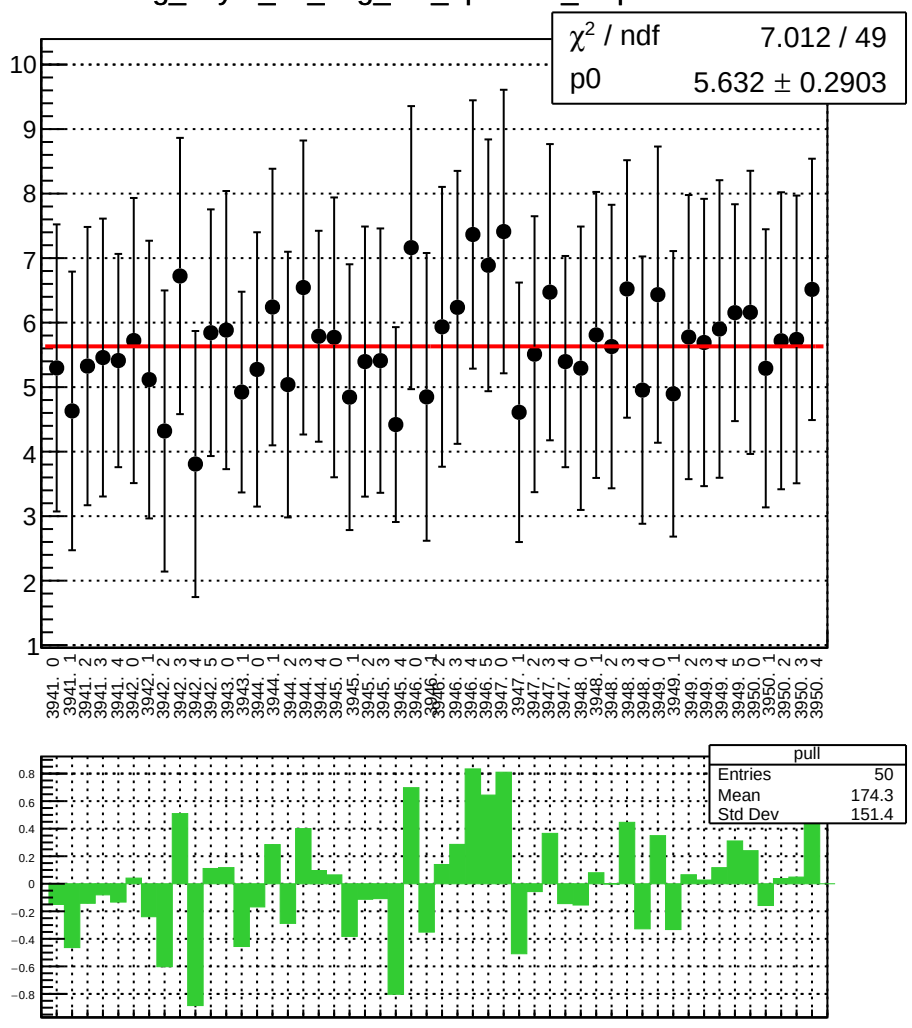

pull1D
Entries 50
Mean −0.05195
Std Dev 0.3891
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

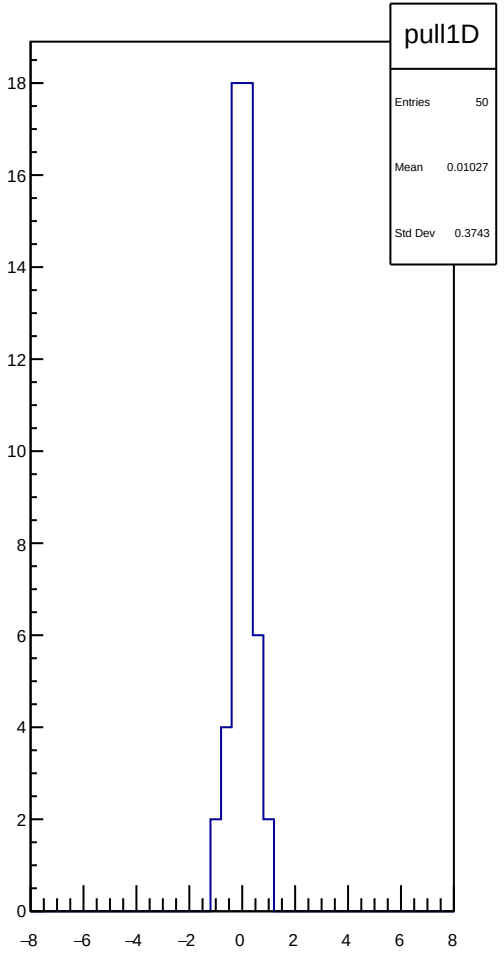

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.921 / 49
p0 3.031 ± 0.8371
pull
Entries 50
Mean 34.6
Std Dev 9.844
pull1D
Entries 50
Mean 0.006782
Std Dev 0.1959

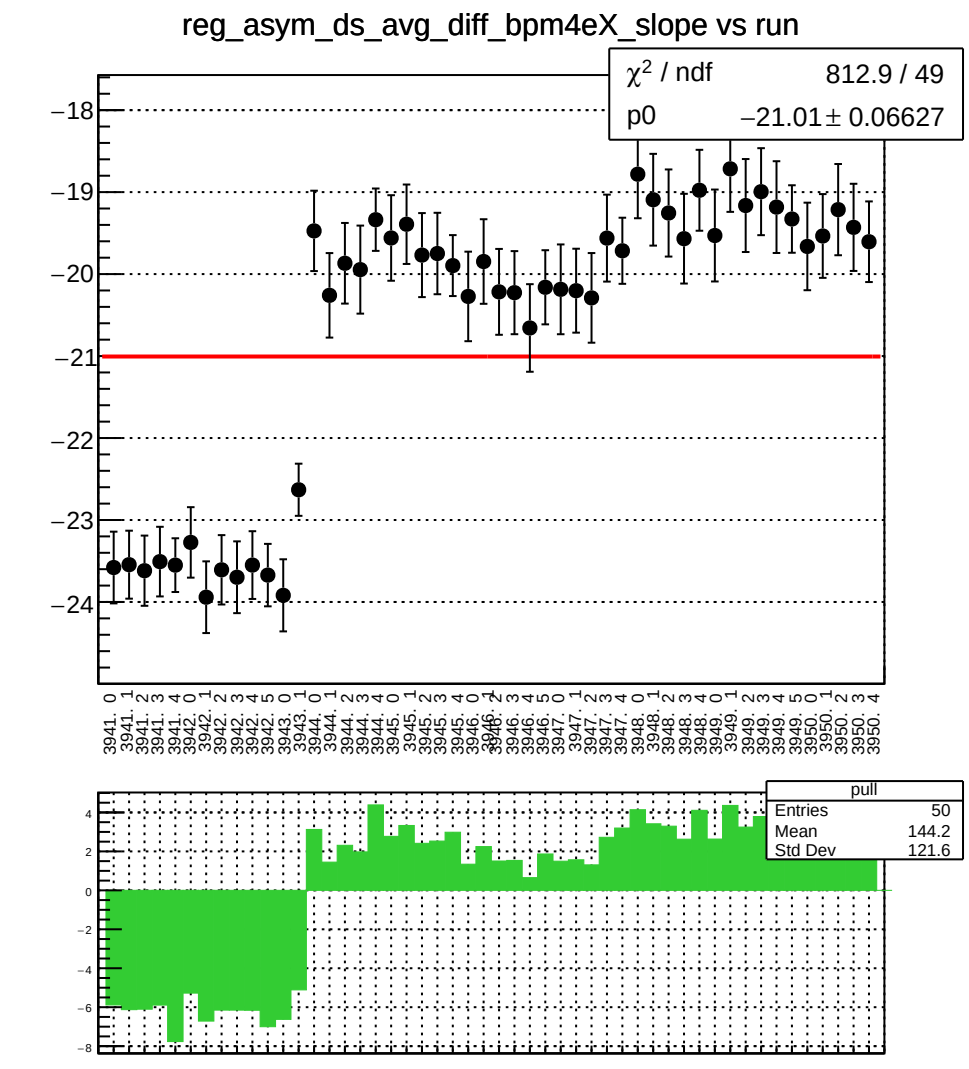

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 1.551 / 49
p0 1.802 ± 0.1417
pull
Entries 50
Mean 95.21
Std Dev 77.6
pull1D
Entries 50
Mean −0.003658
Std Dev 0.1761

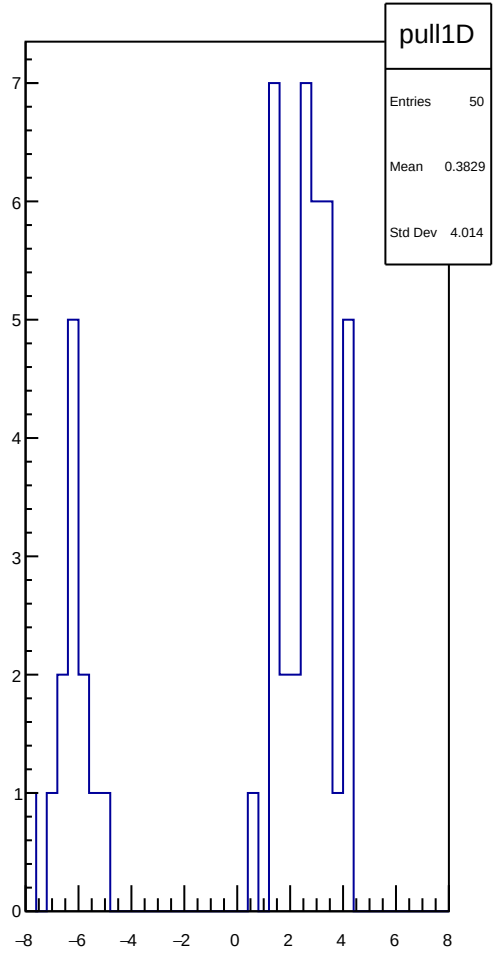

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 93.64 / 49
p0 −5.051 ± 0.41
pull
Entries 50
Mean 149
Std Dev 128.1

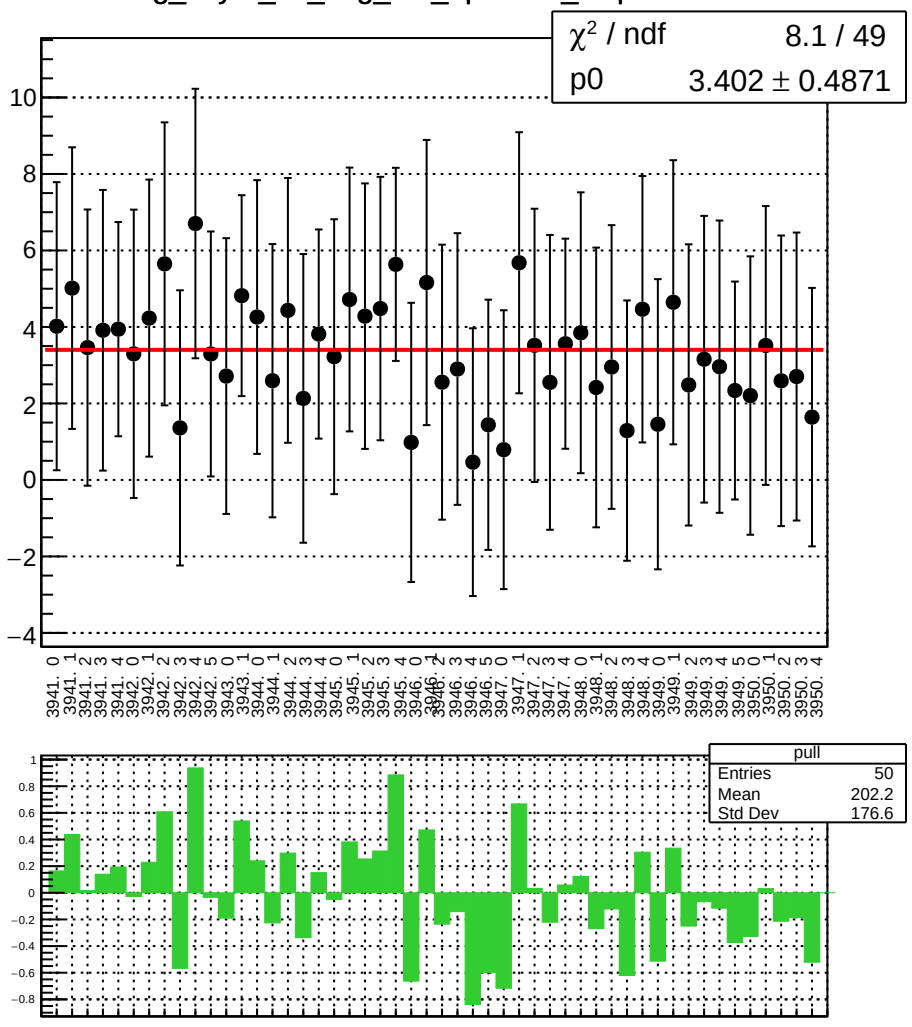

pull1D
Entries 50
Mean −0.08766
Std Dev 1.366

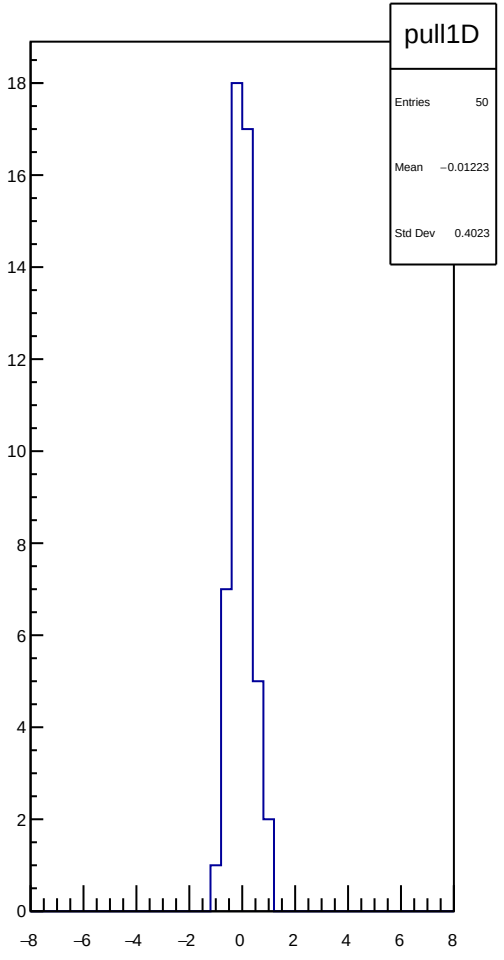

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.012 / 49
p0 5.632 ± 0.2903
pull
Entries 50
Mean 174.3
Std Dev 151.4

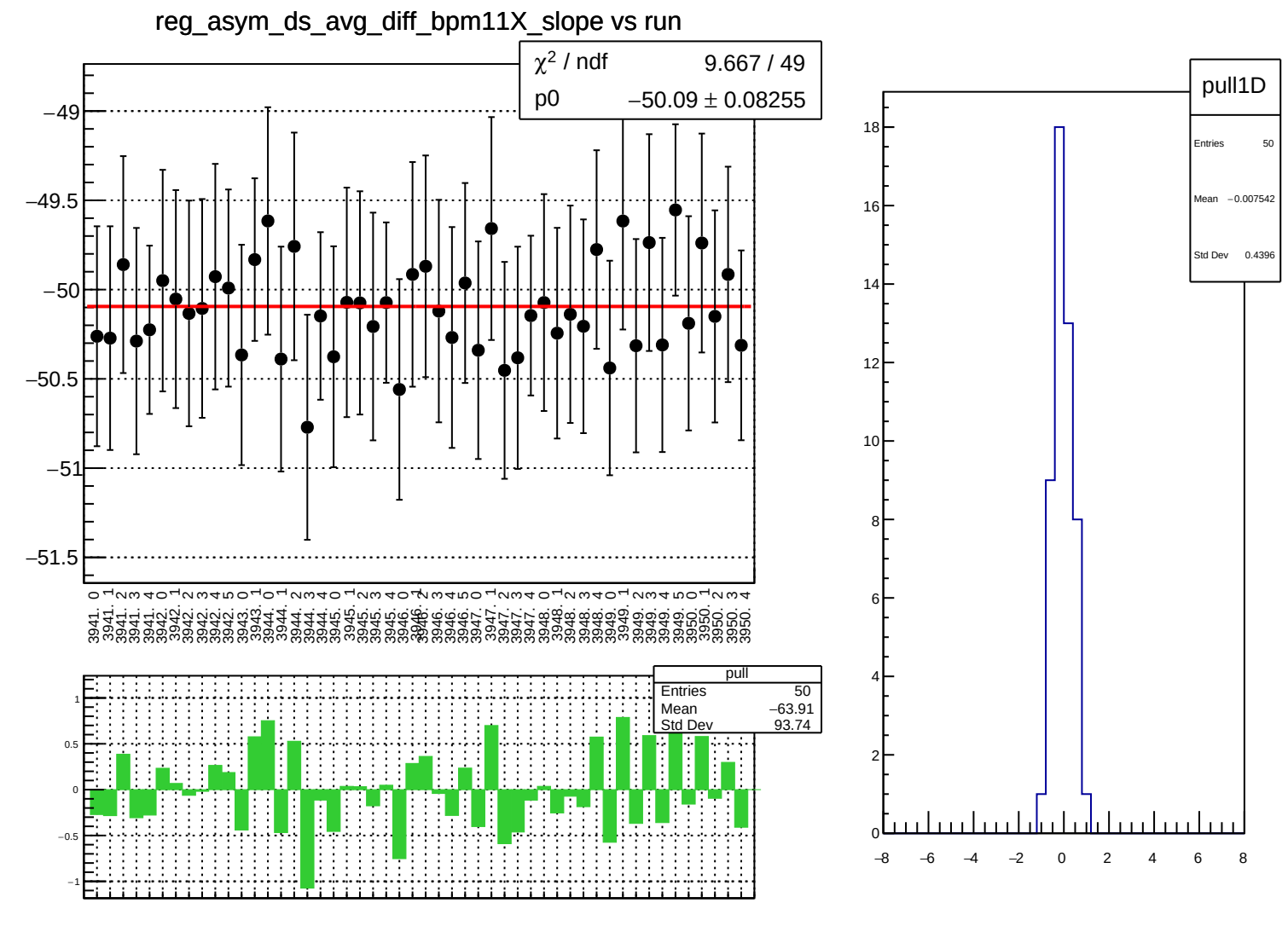

pull1D
Entries 50
Mean 0.01027
Std Dev 0.3743

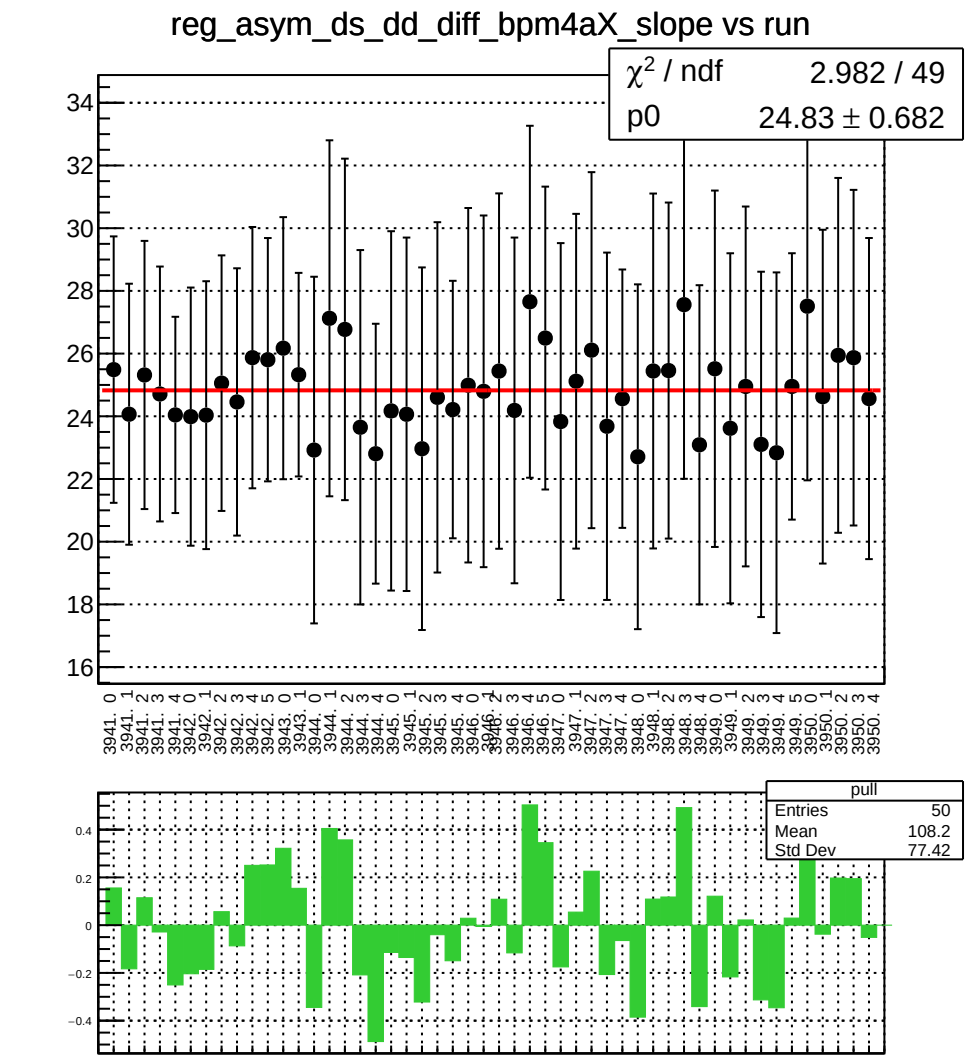

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 812.9 / 49
p0 −21.01 ± 0.06627
pull
Entries 50
Mean 144.2
Std Dev 121.6

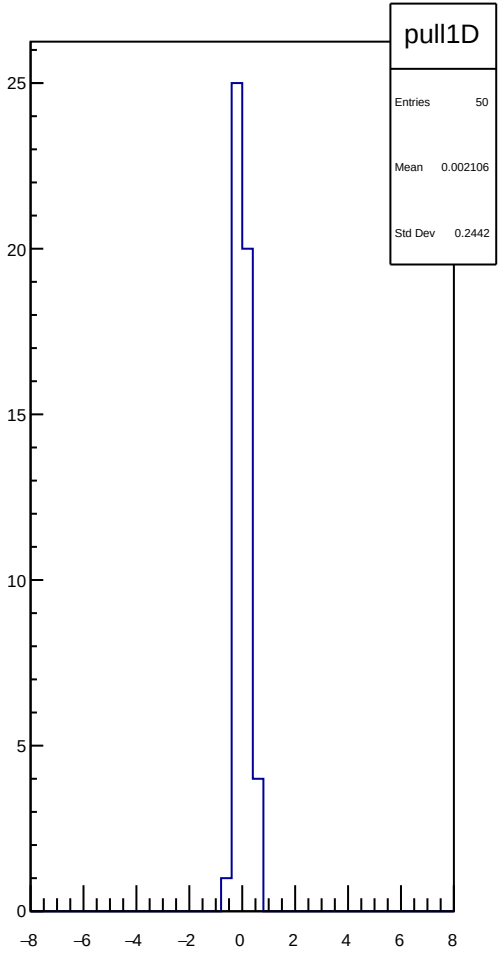

pull1D
Entries 50
Mean 0.3829
Std Dev 4.014

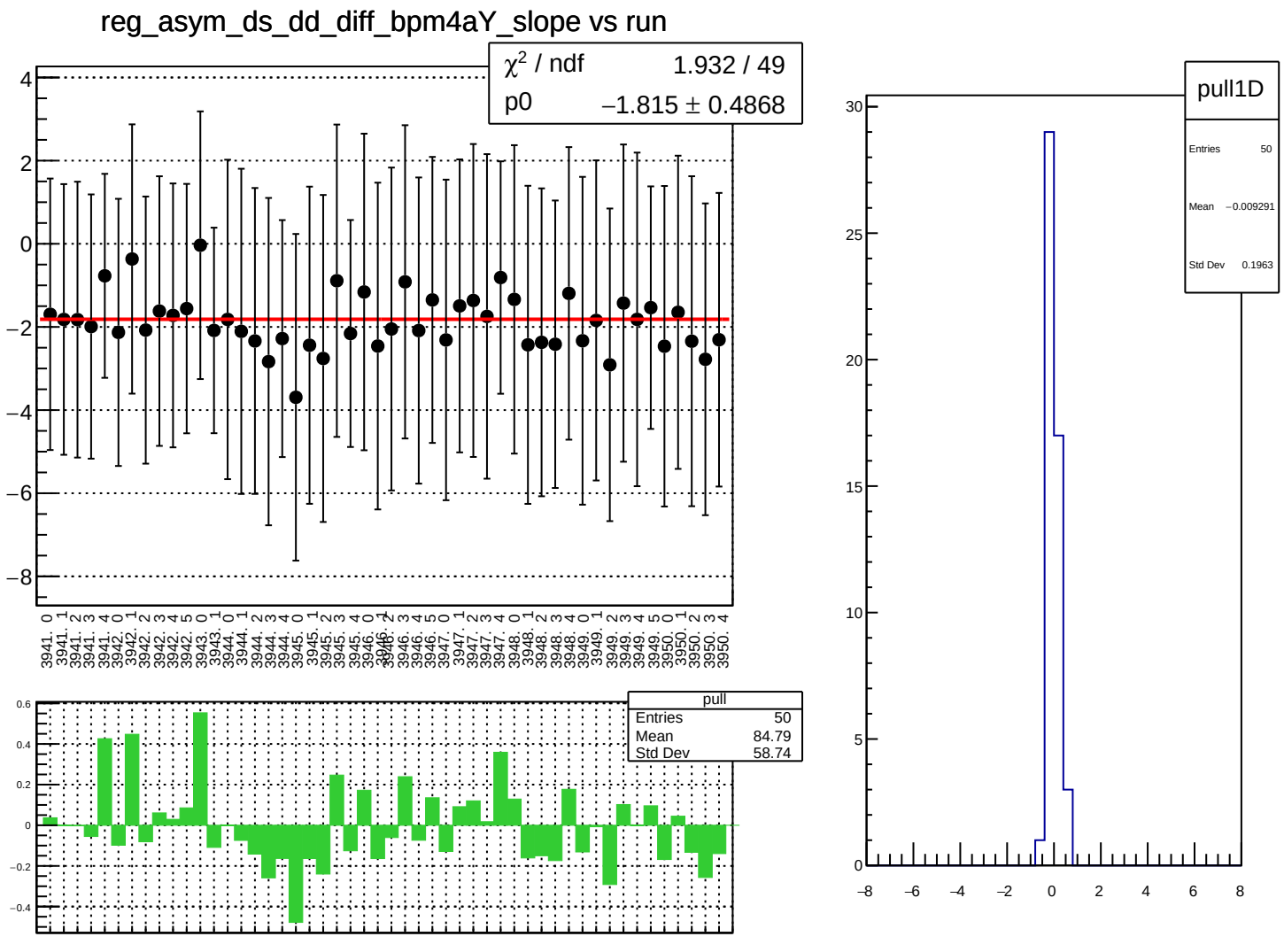

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.1 / 49
p0 3.402 ± 0.4871
pull
Entries 50
Mean 202.2
Std Dev 176.6

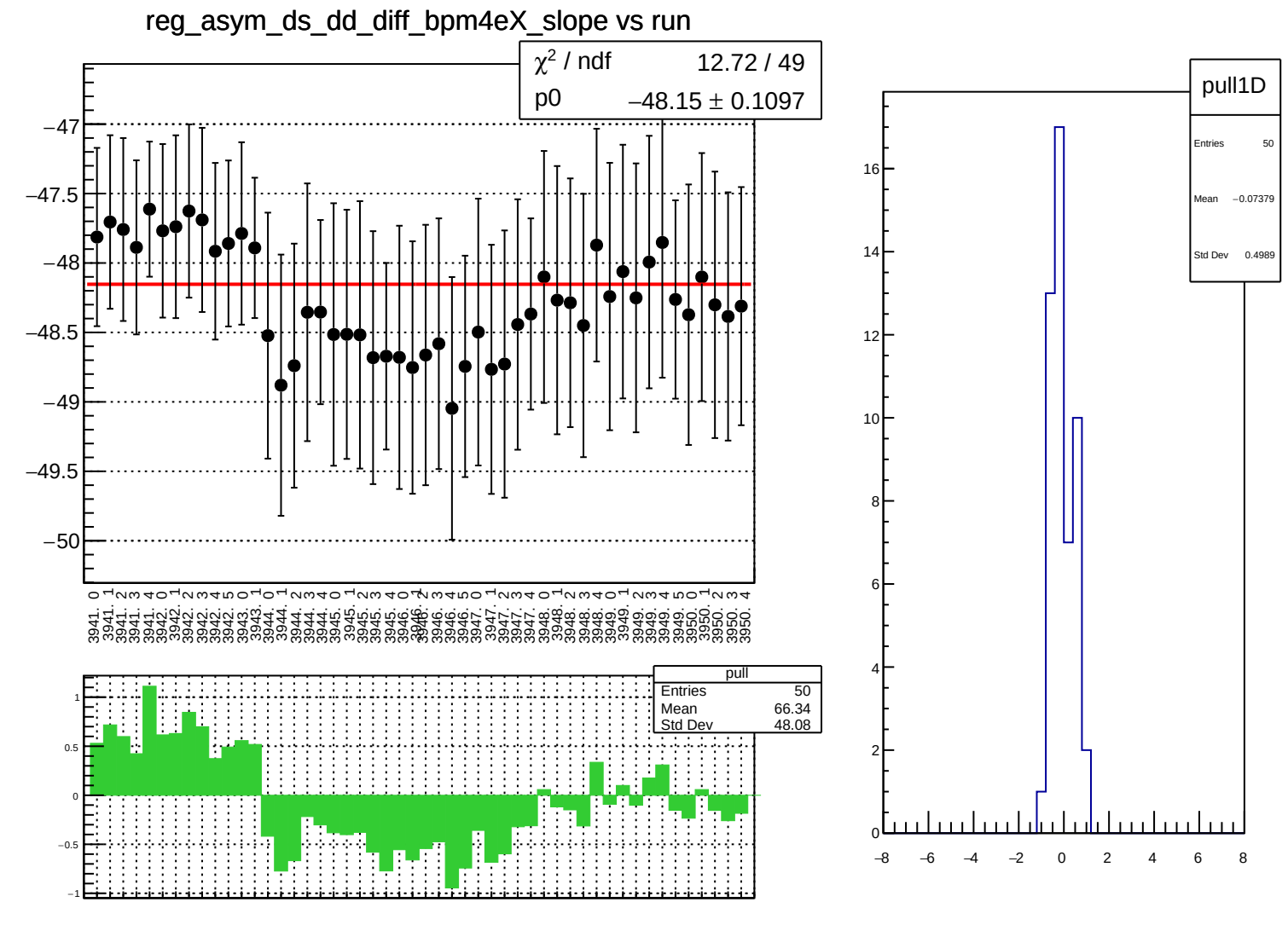

pull1D
Entries 50
Mean −0.01223
Std Dev 0.4023

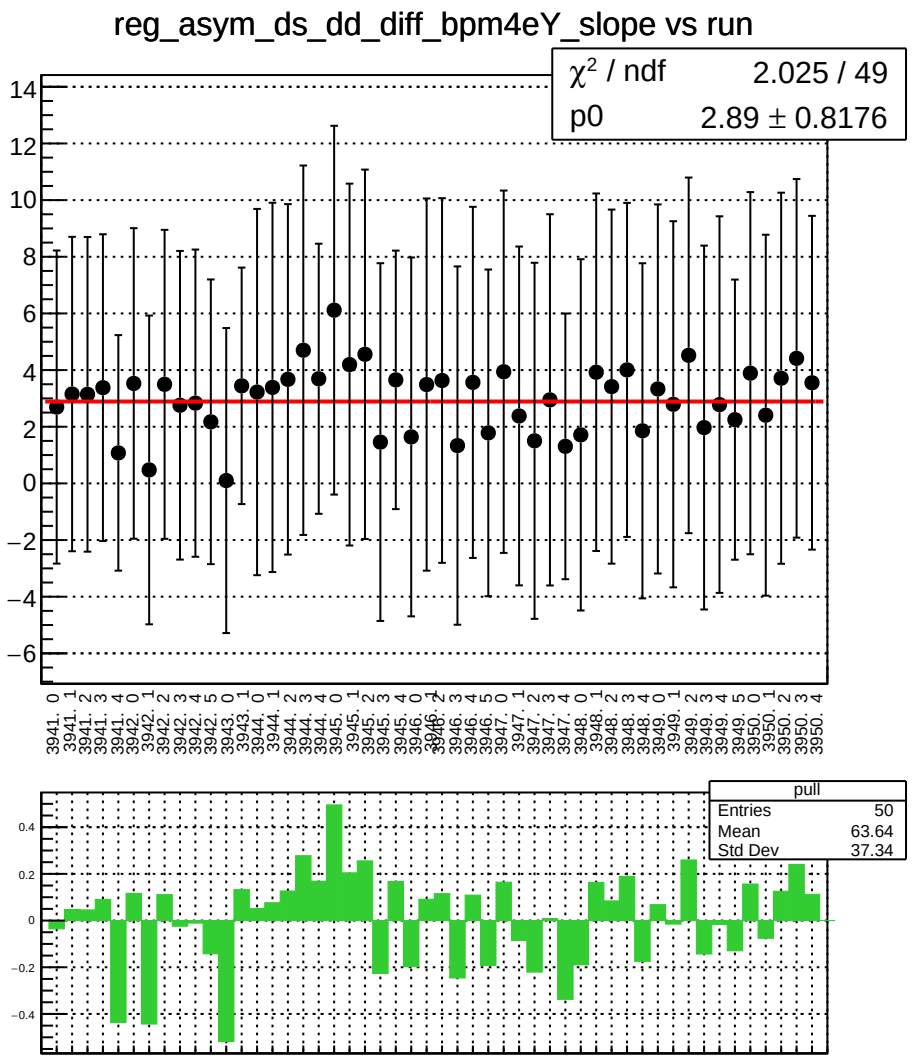

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 9.667 / 49
p0 −50.09 ± 0.08255
−49
−49.5
−50
−50.5
−51
−51.5
pull
Entries 50
Mean −63.91
Std Dev 93.74
pull1D
Entries 50
Mean −0.007542
Std Dev 0.4396

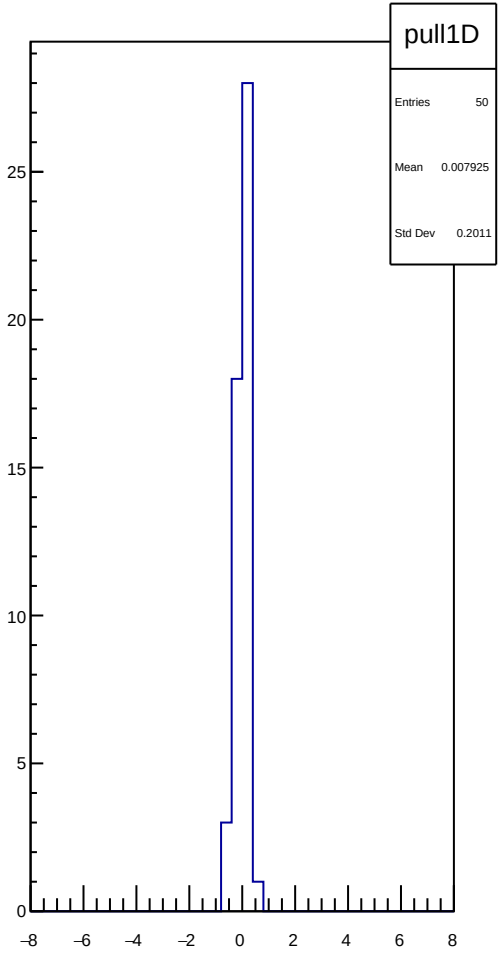

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.982 / 49
p0 24.83 ± 0.682
pull
Entries 50
Mean 108.2
Std Dev 77.42

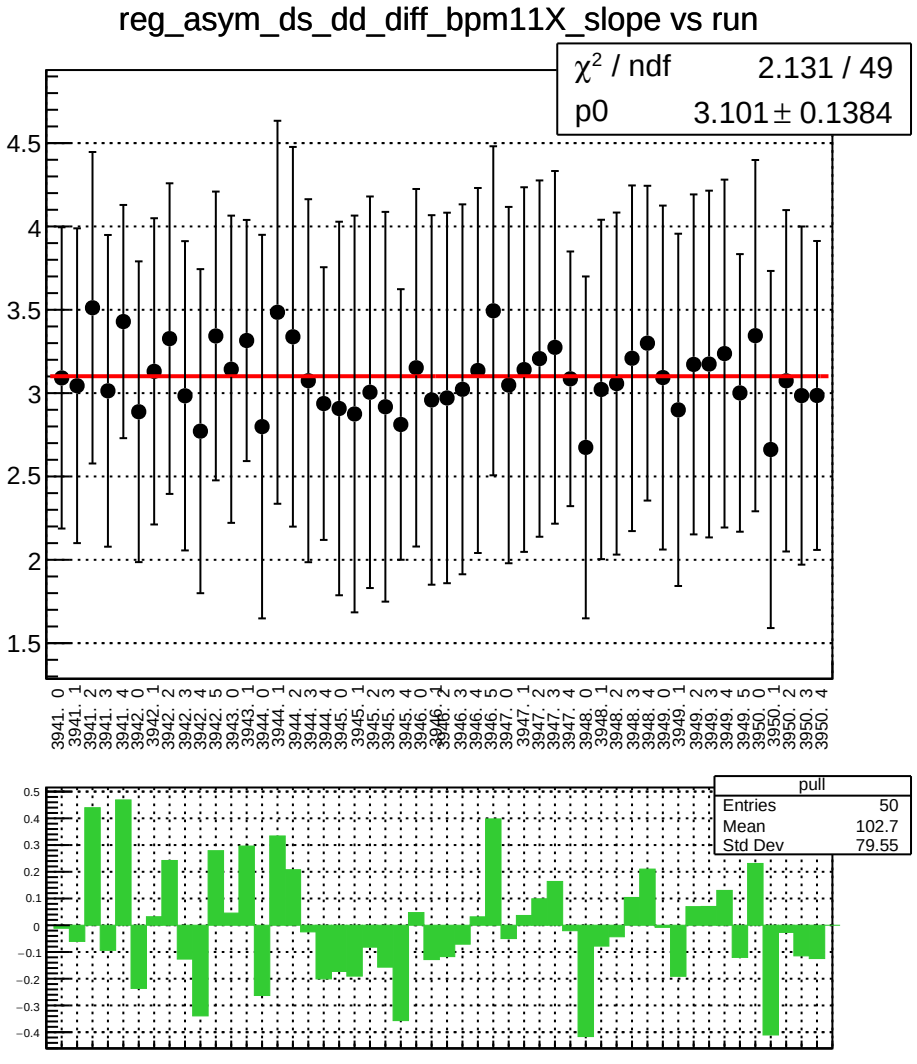

pull1D
Entries 50
Mean 0.002106
Std Dev 0.2442

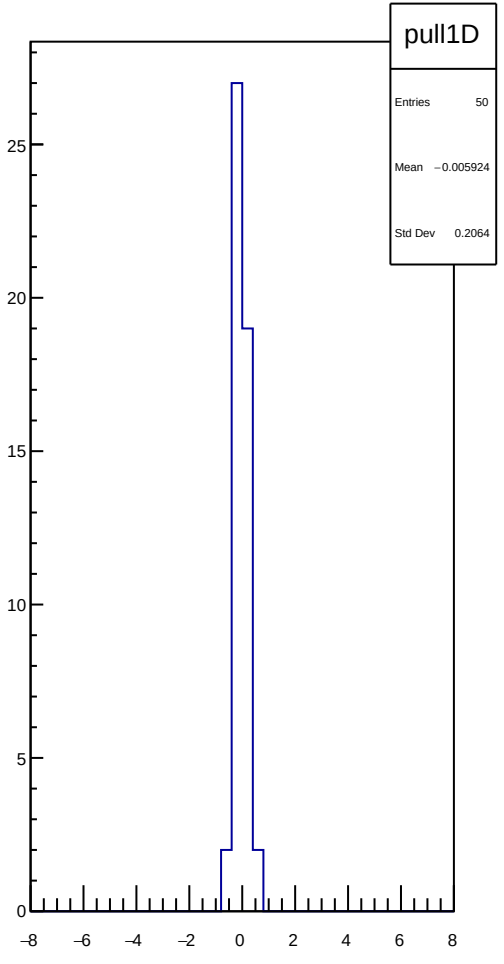

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.932 / 49
p0 −1.815 ± 0.4868
pull
Entries 50
Mean 84.79
Std Dev 58.74
pull1D
Entries 50
Mean −0.009291
Std Dev 0.1963

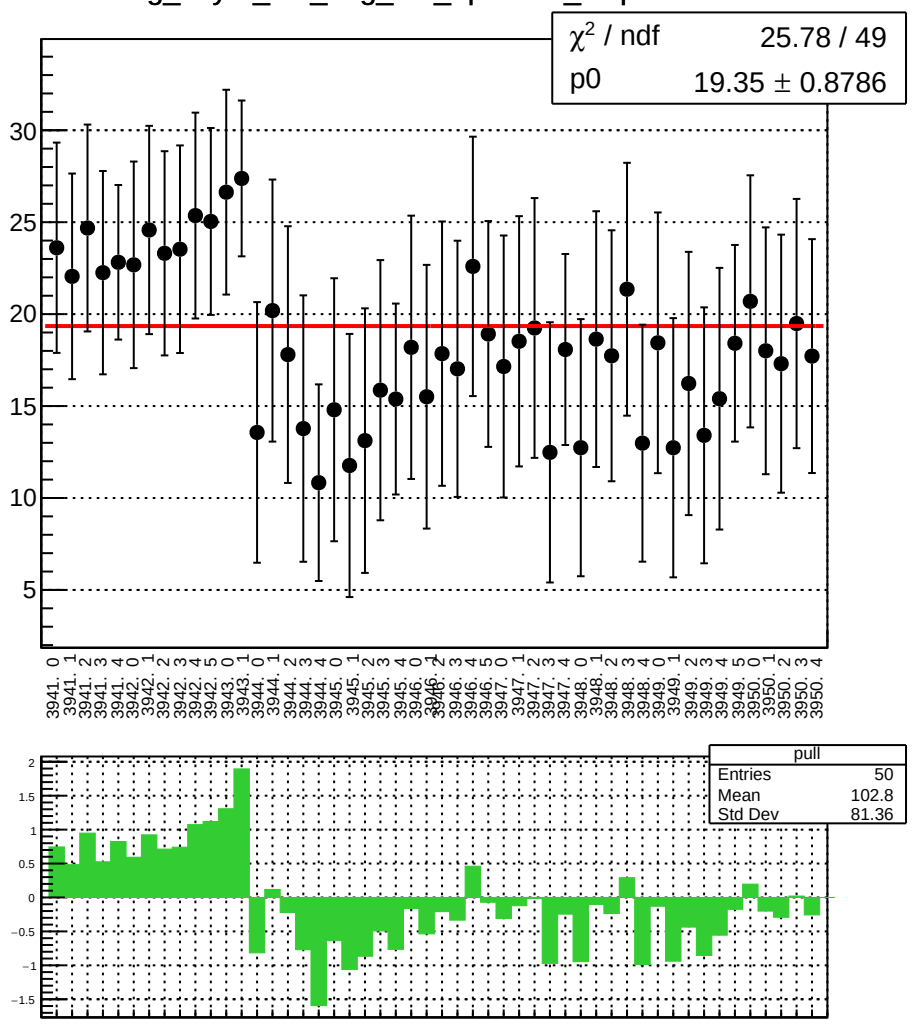

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.72 / 49
p0 −48.15 ± 0.1097
pull
Entries 50
Mean 66.34
Std Dev 48.08
pull1D
Entries 50
Mean −0.07379
Std Dev 0.4989

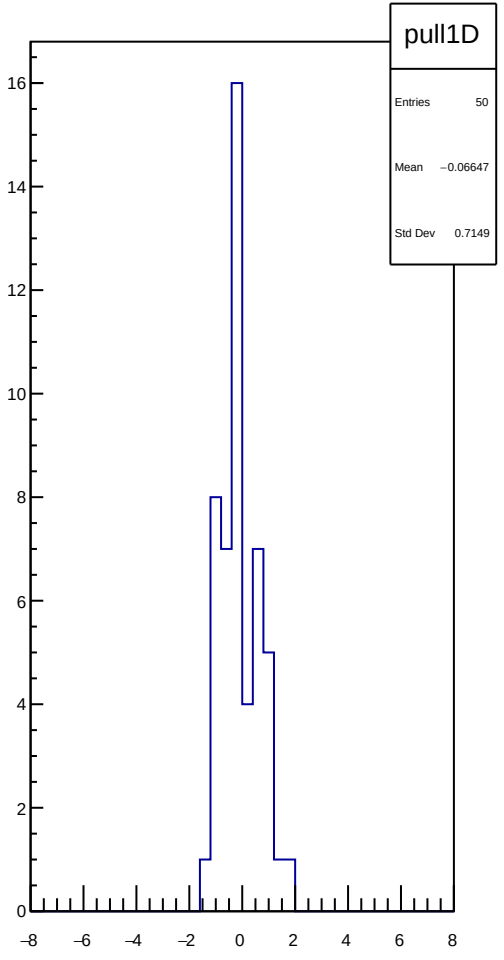

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.025 / 49
p0 2.89 ± 0.8176
pull
Entries 50
Mean 63.64
Std Dev 37.34

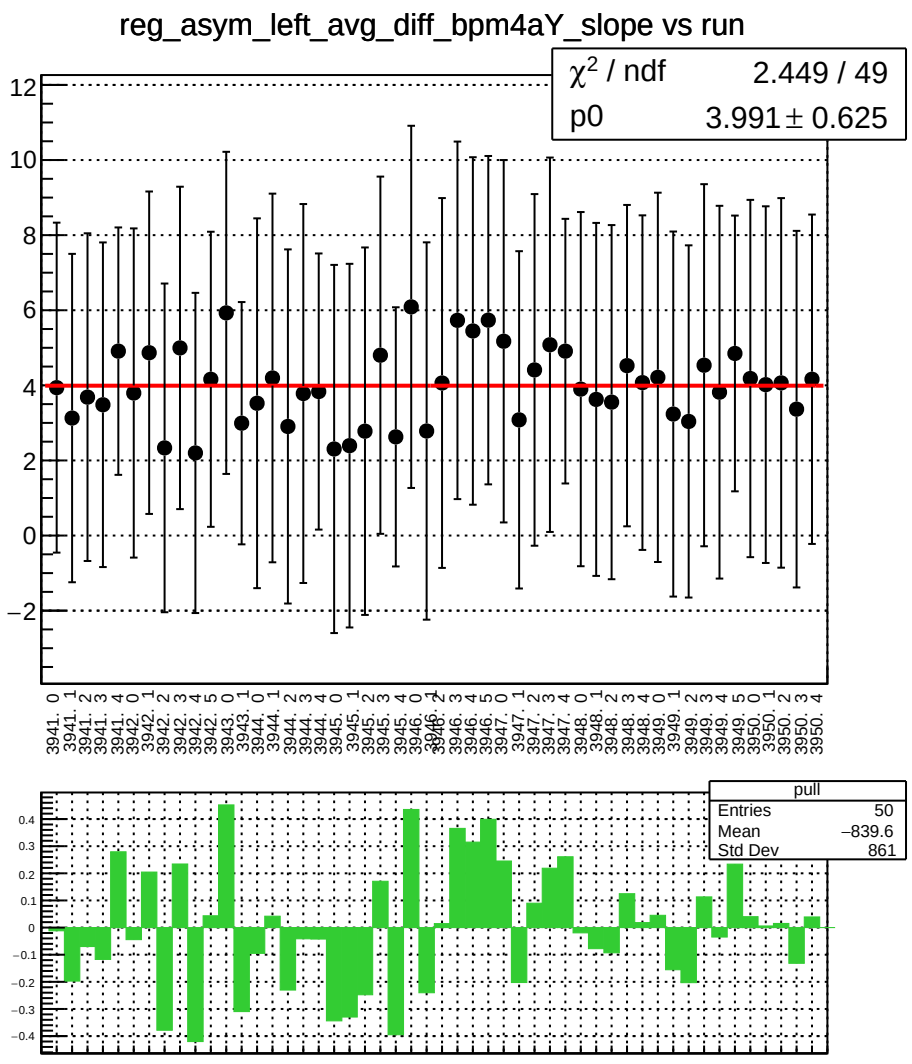

pull1D
Entries 50
Mean 0.007925
Std Dev 0.2011

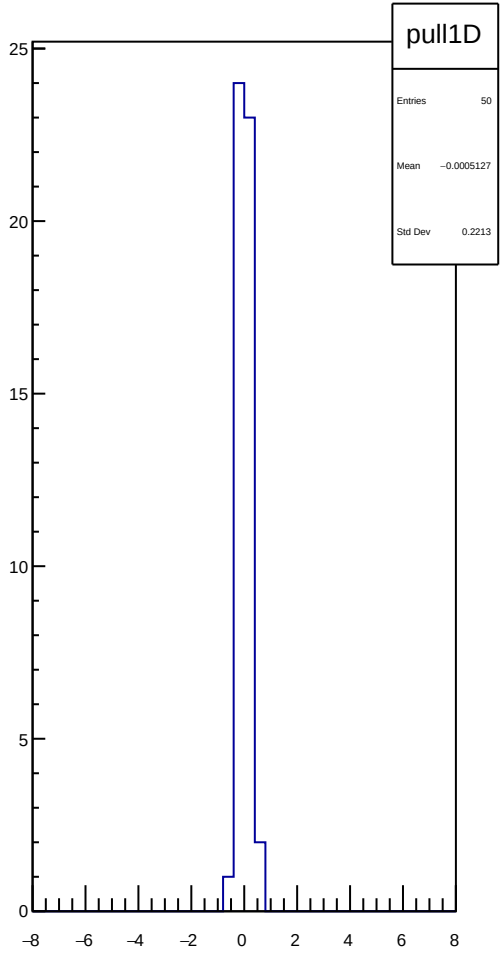

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 2.131 / 49
p0 3.101 ± 0.1384
pull
Entries 50
Mean 102.7
Std Dev 79.55

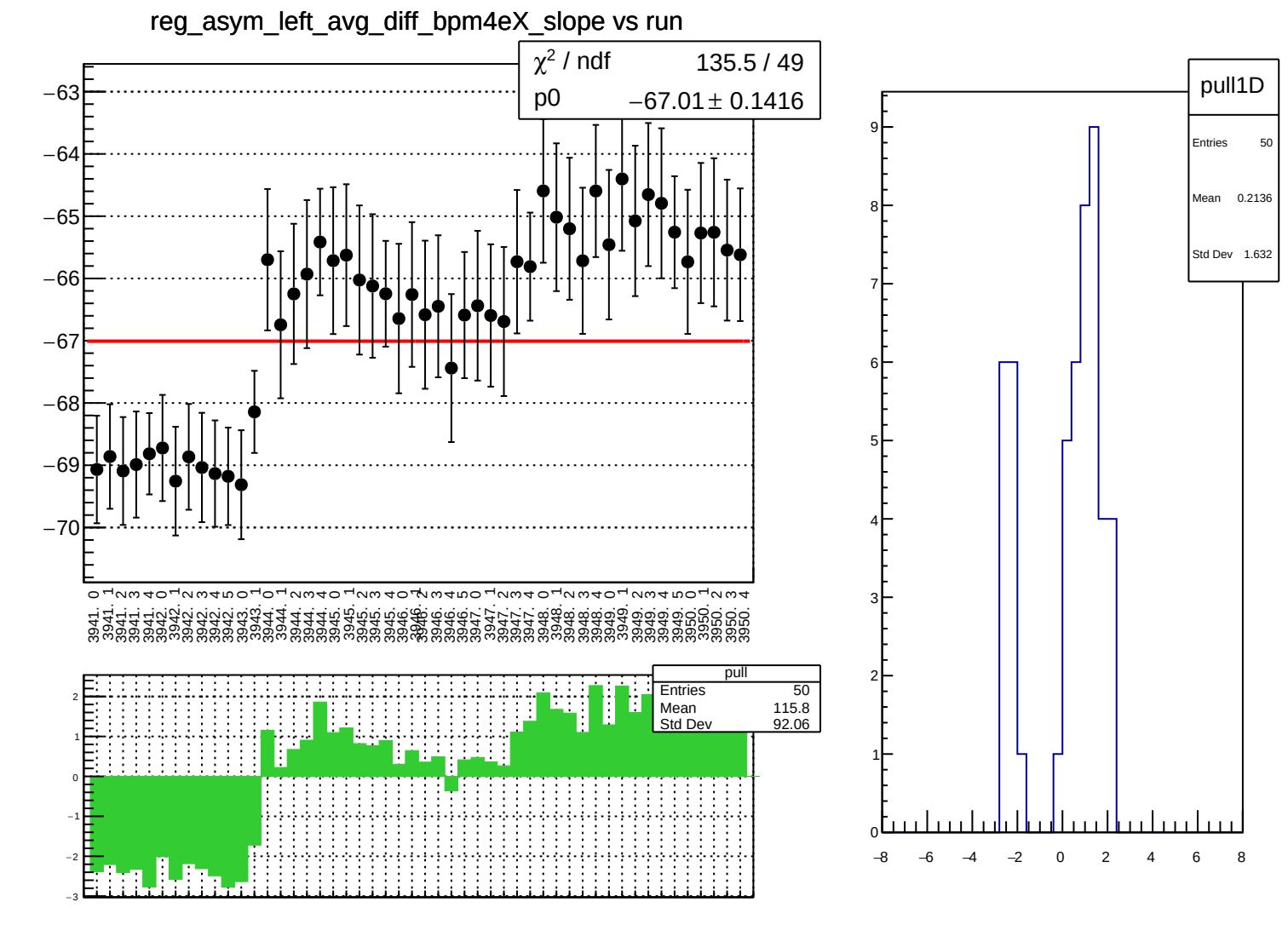

pull1D
Entries 50
Mean −0.005924
Std Dev 0.2064

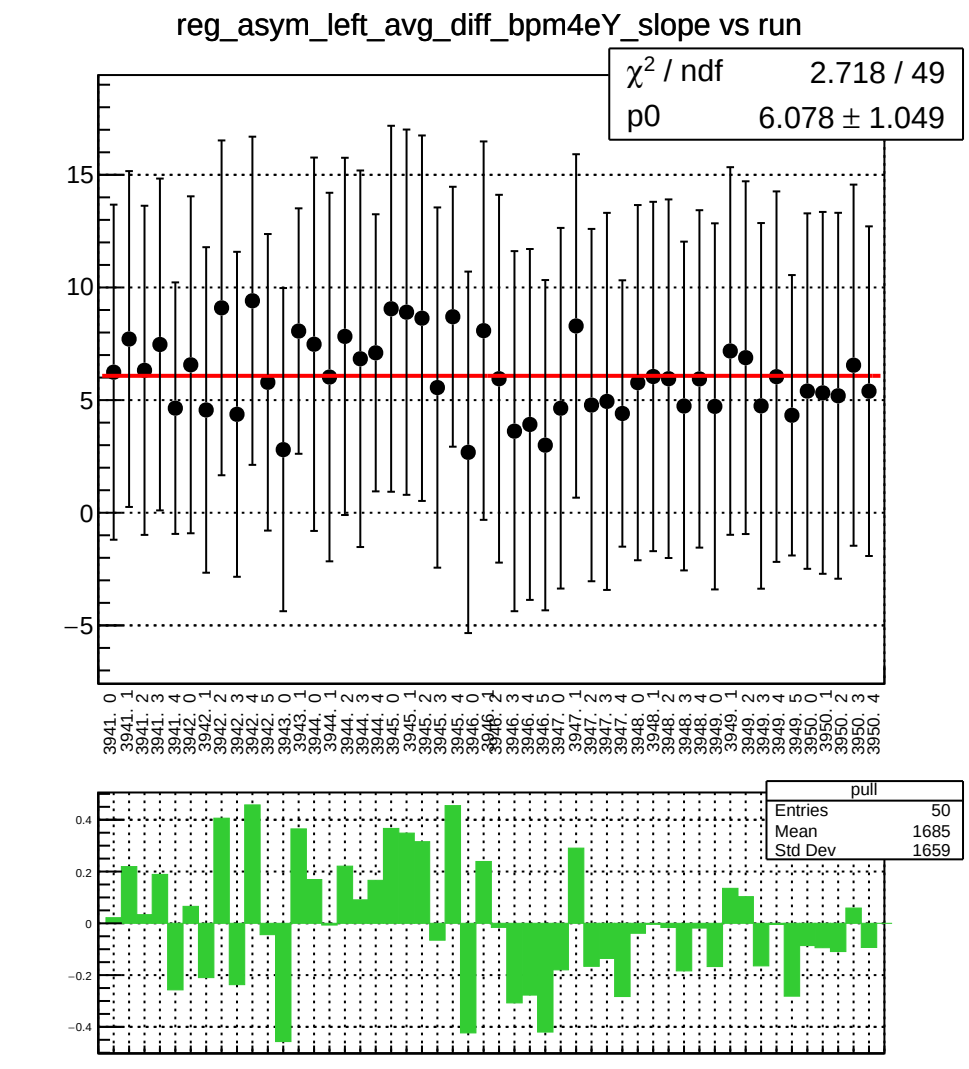

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 25.78 / 49
p0 19.35 ± 0.8786
pull
Entries 50
Mean 102.8
Std Dev 81.36

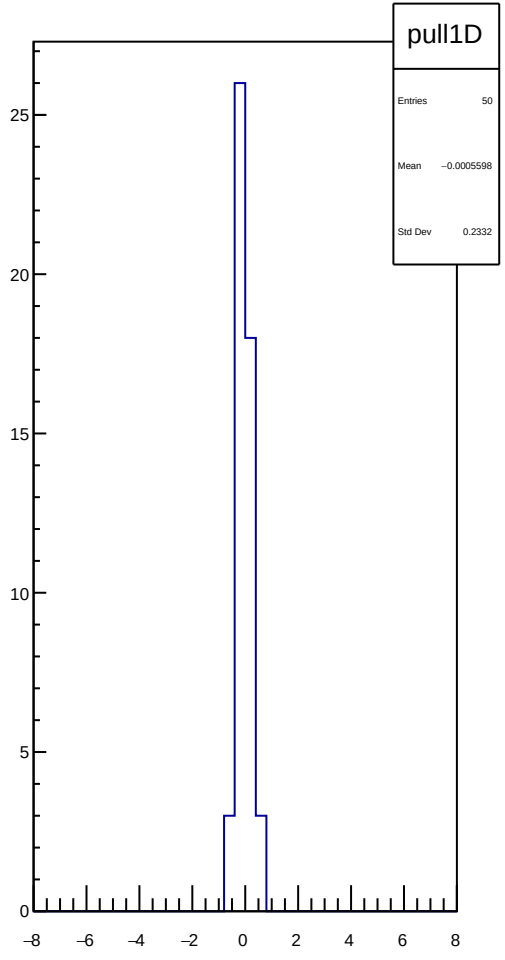

pull1D
Entries 50
Mean −0.06647
Std Dev 0.7149

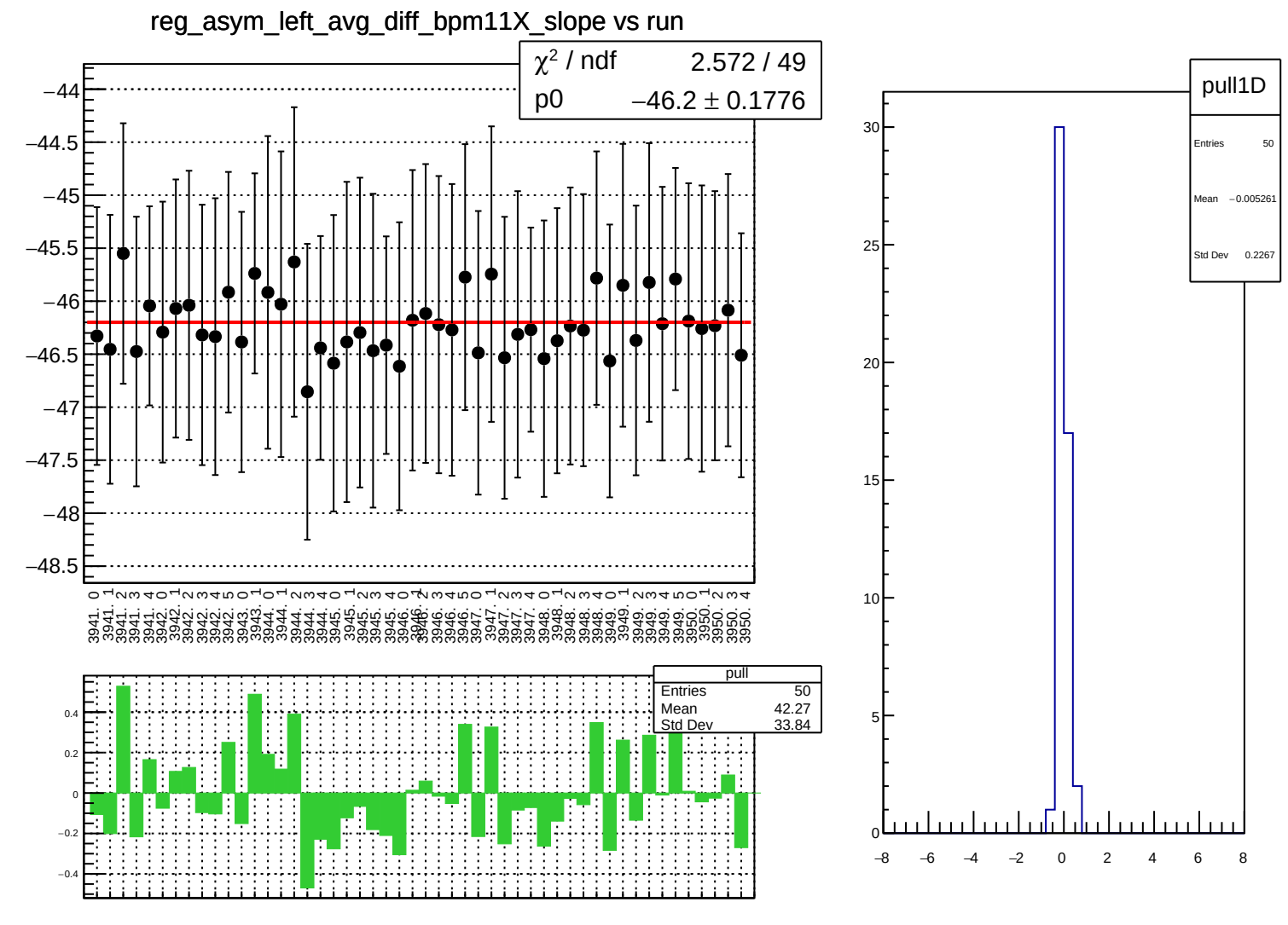

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.449 / 49
p0 3.991 ± 0.625
pull
Entries 50
Mean −839.6
Std Dev 861

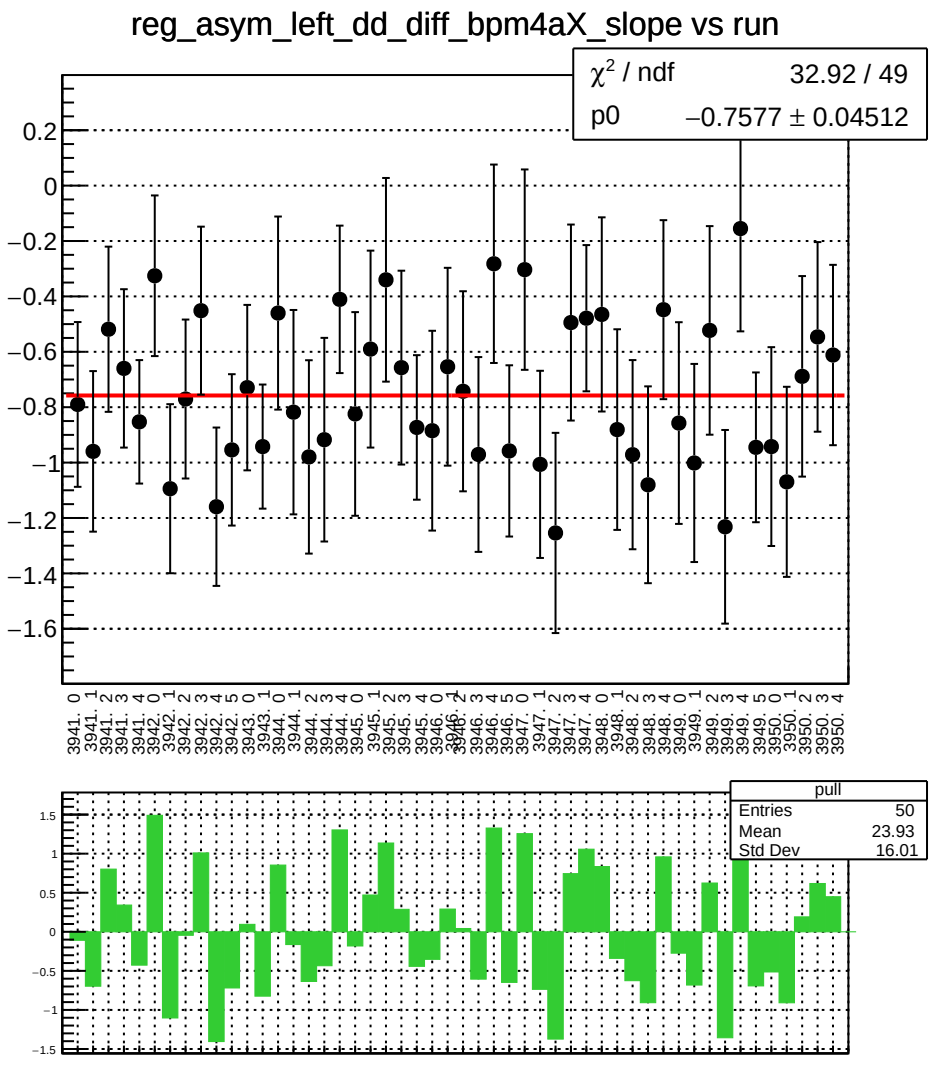

pull1D
Entries 50
Mean −0.0005127
Std Dev 0.2213

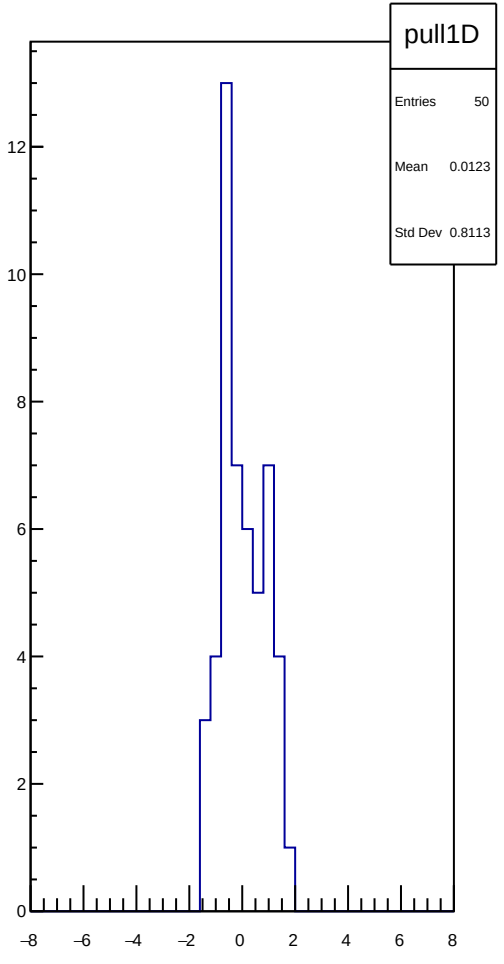

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 135.5 / 49
p0 −67.01 ± 0.1416
pull
Entries 50
Mean 115.8
Std Dev 92.06
pull1D
Entries 50
Mean 0.2136
Std Dev 1.632

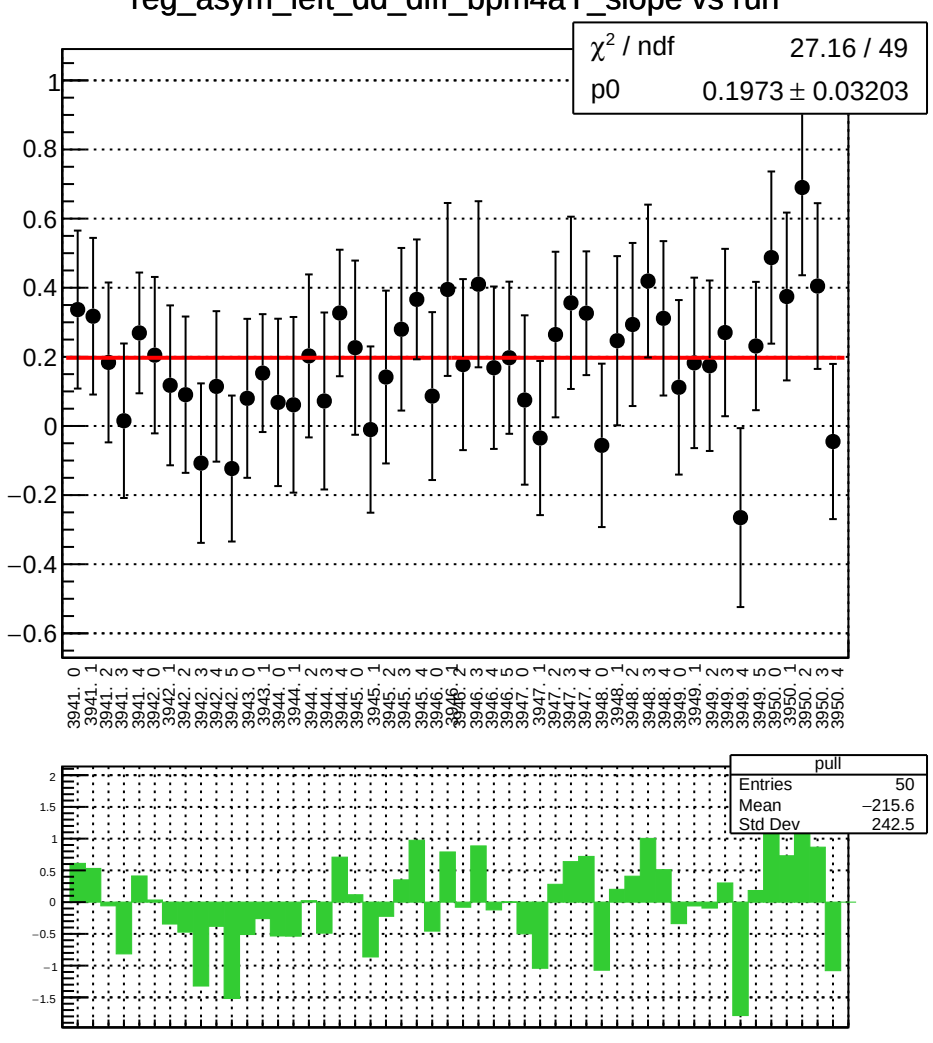

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.718 / 49
p0 6.078 ± 1.049
pull
Entries 50
Mean 1685
Std Dev 1659

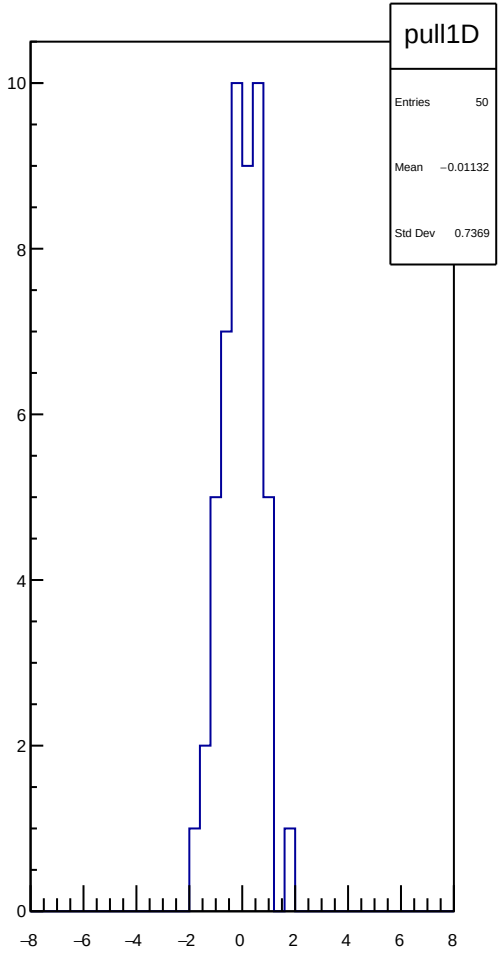

pull1D
Entries 50
Mean −0.0005598
Std Dev 0.2332

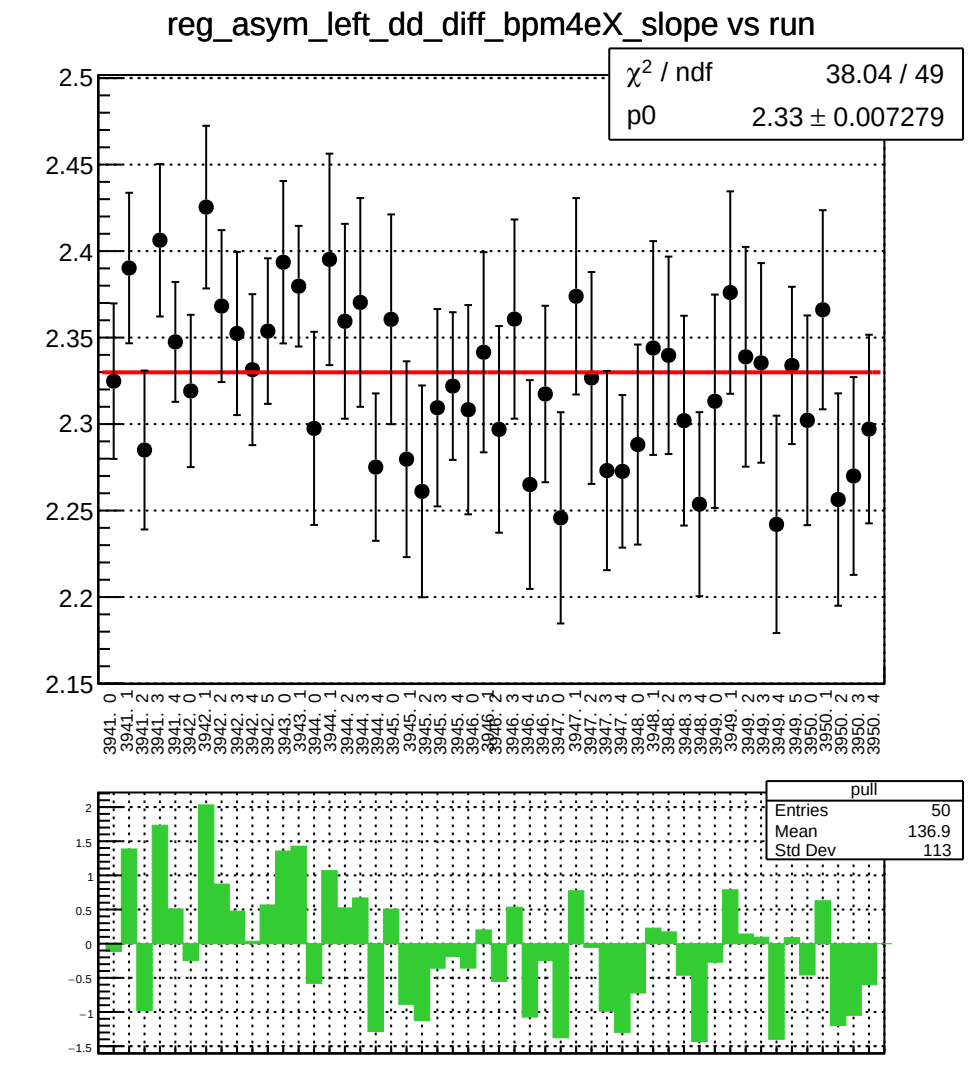

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 2.572 / 49
p0 −46.2 ± 0.1776
pull
Entries 50
Mean 42.27
Std Dev 33.84
pull1D
Entries 50
Mean −0.005261
Std Dev 0.2267

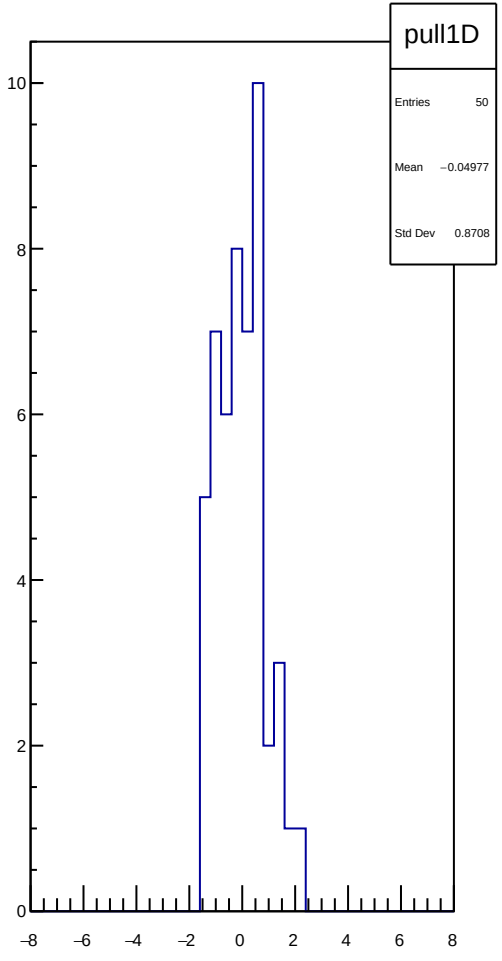

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 32.92 / 49
p0 −0.7577 ± 0.04512
pull
Entries 50
Mean 23.93
Std Dev 16.01

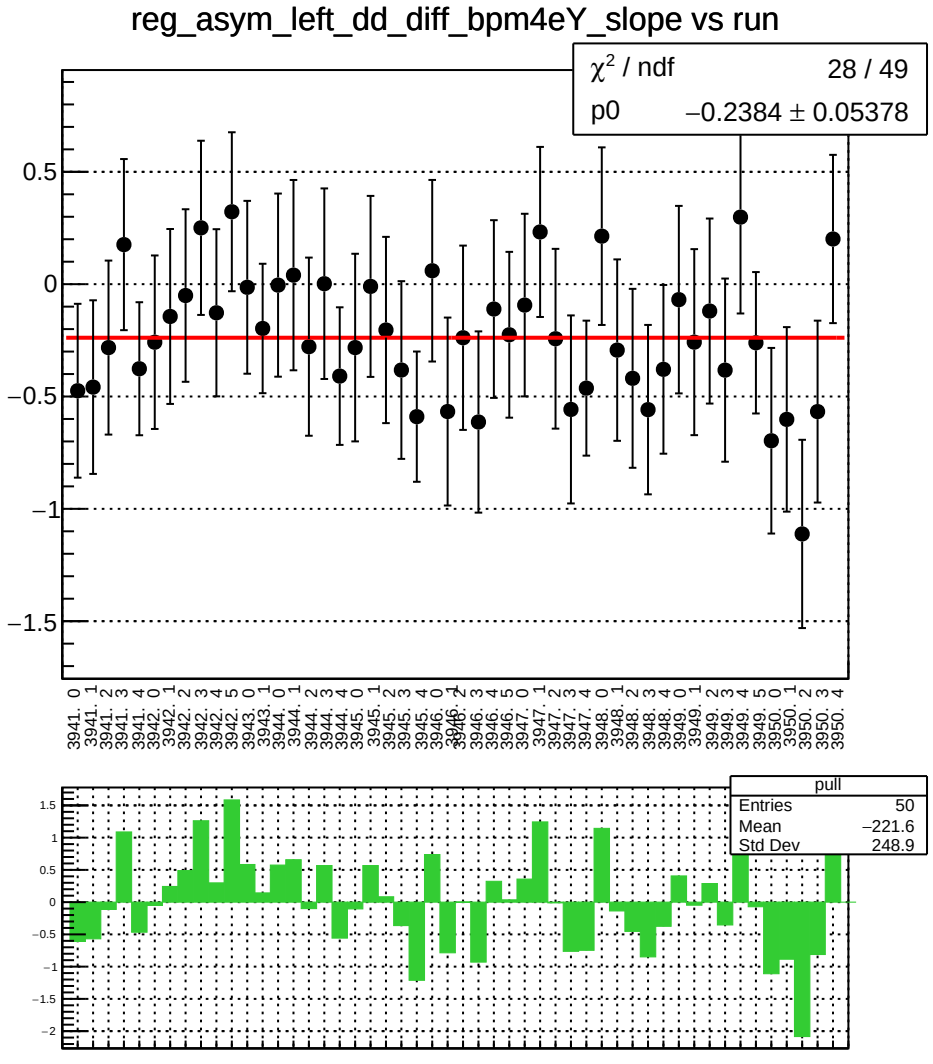

pull1D
Entries 50
Mean 0.0123
Std Dev 0.8113

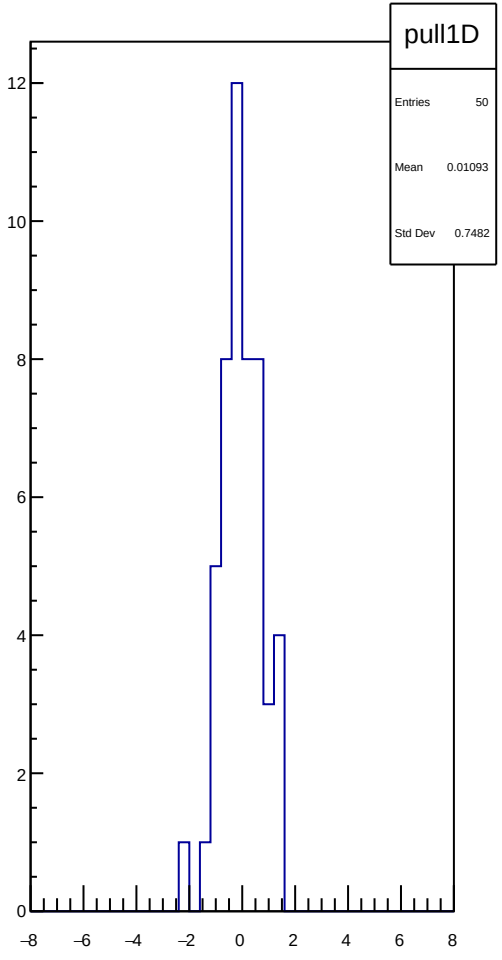

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.16 / 49
p0 0.1973 ± 0.03203
pull
Entries 50
Mean −215.6
Std Dev 242.5

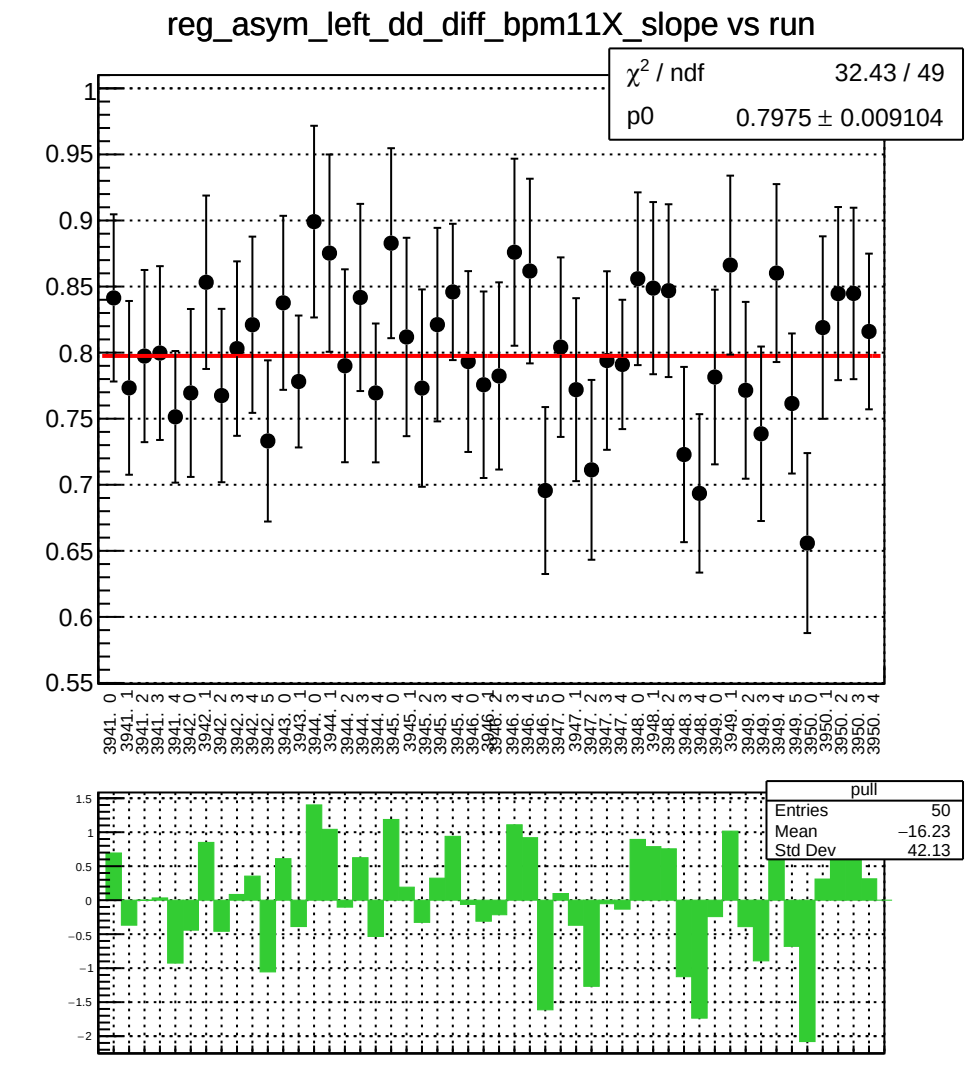

pull1D
Entries 50
Mean −0.01132
Std Dev 0.7369

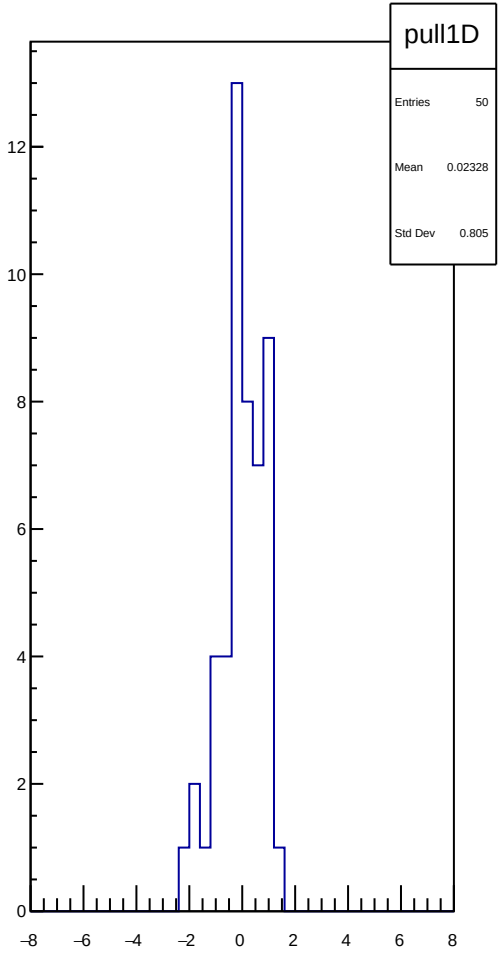

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.04 / 49
p0 2.33 ± 0.007279
pull
Entries 50
Mean 136.9
Std Dev 113

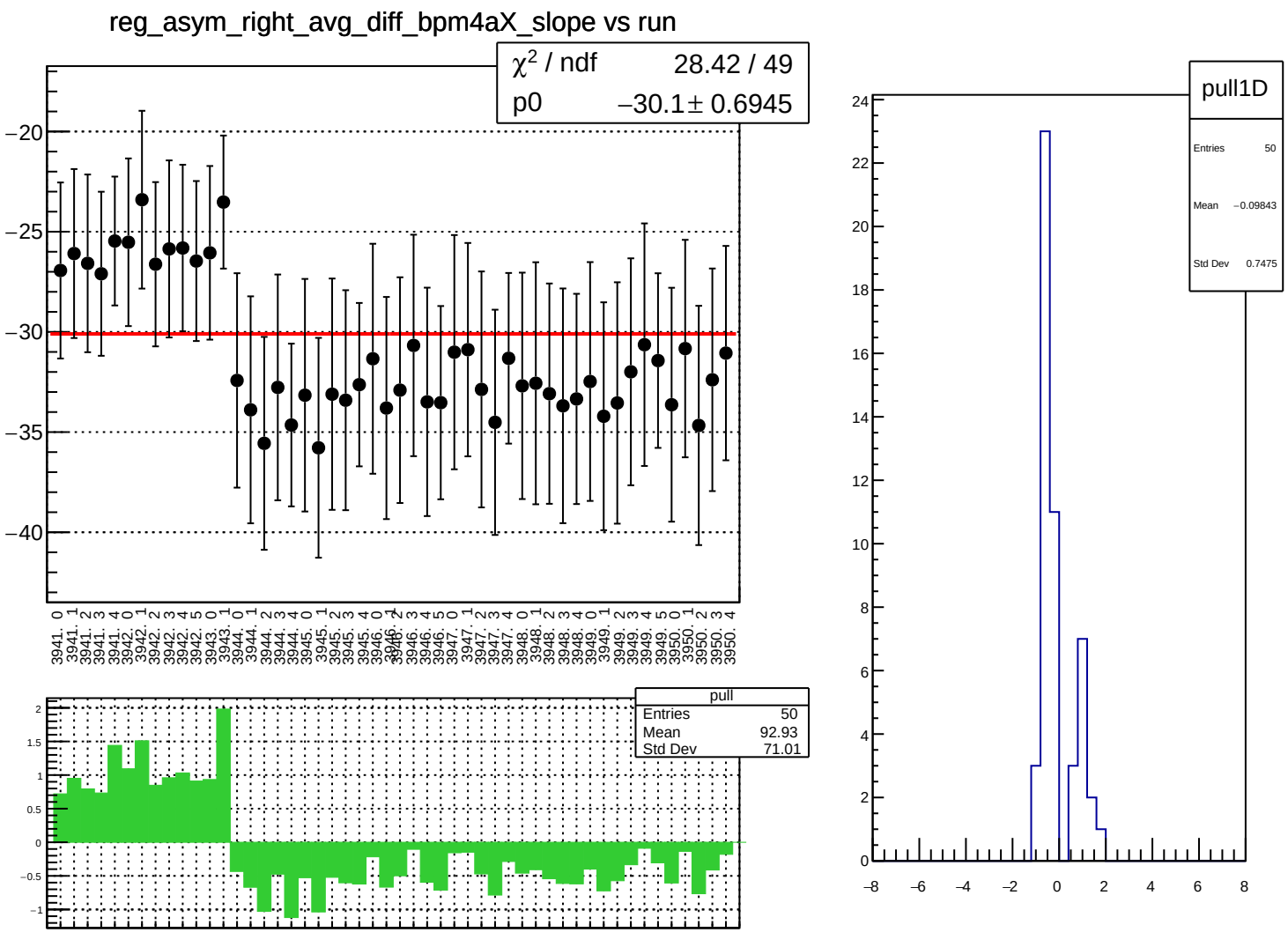

pull1D
Entries 50
Mean −0.04977
Std Dev 0.8708

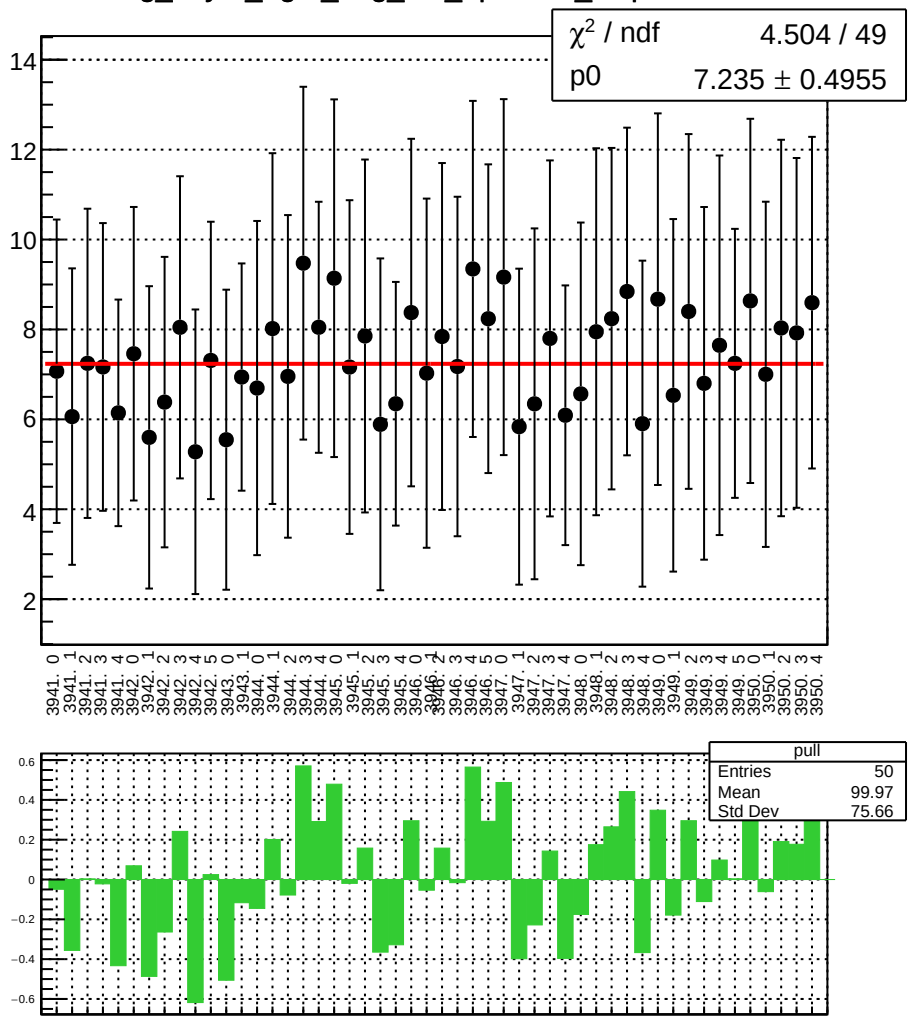

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 28 / 49
p0 −0.2384 ± 0.05378
pull
Entries 50
Mean −221.6
Std Dev 248.9

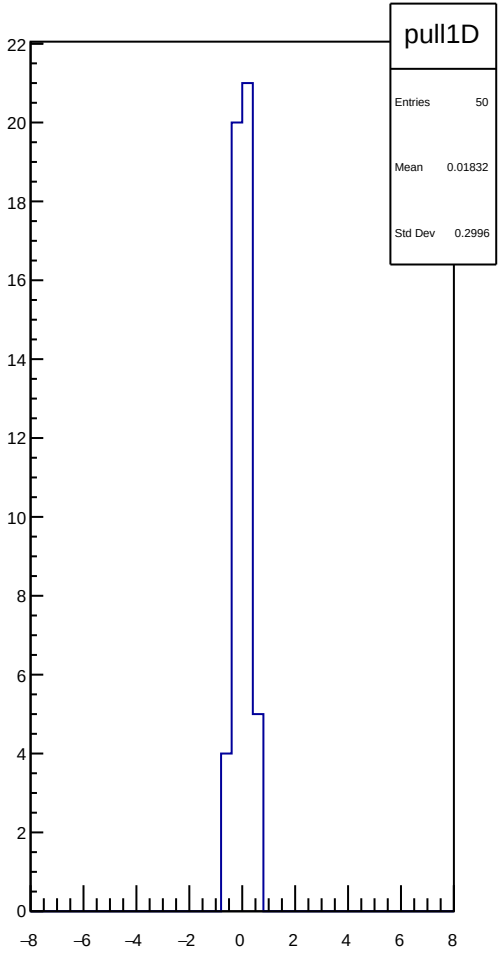

pull1D
Entries 50
Mean 0.01093
Std Dev 0.7482

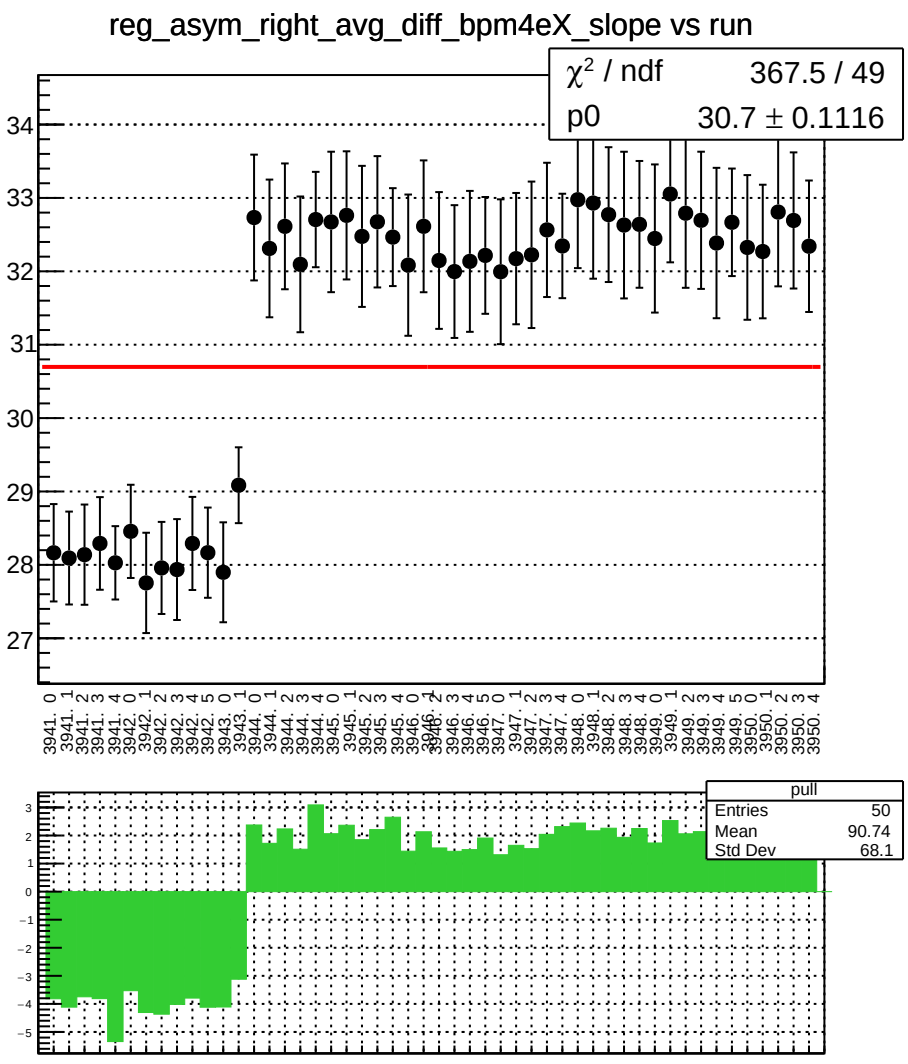

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 32.43 / 49
p0 0.7975 ± 0.009104
pull
Entries 50
Mean −16.23
Std Dev 42.13

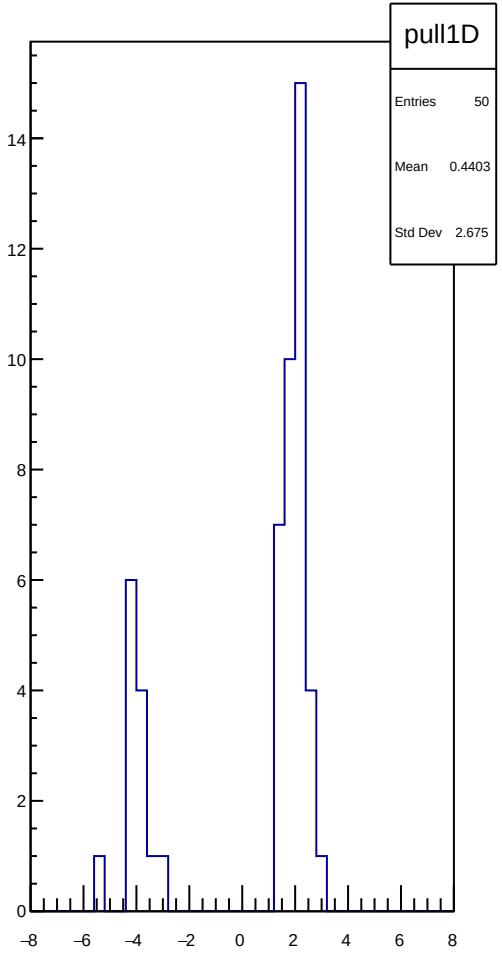

pull1D
Entries 50
Mean 0.02328
Std Dev 0.805

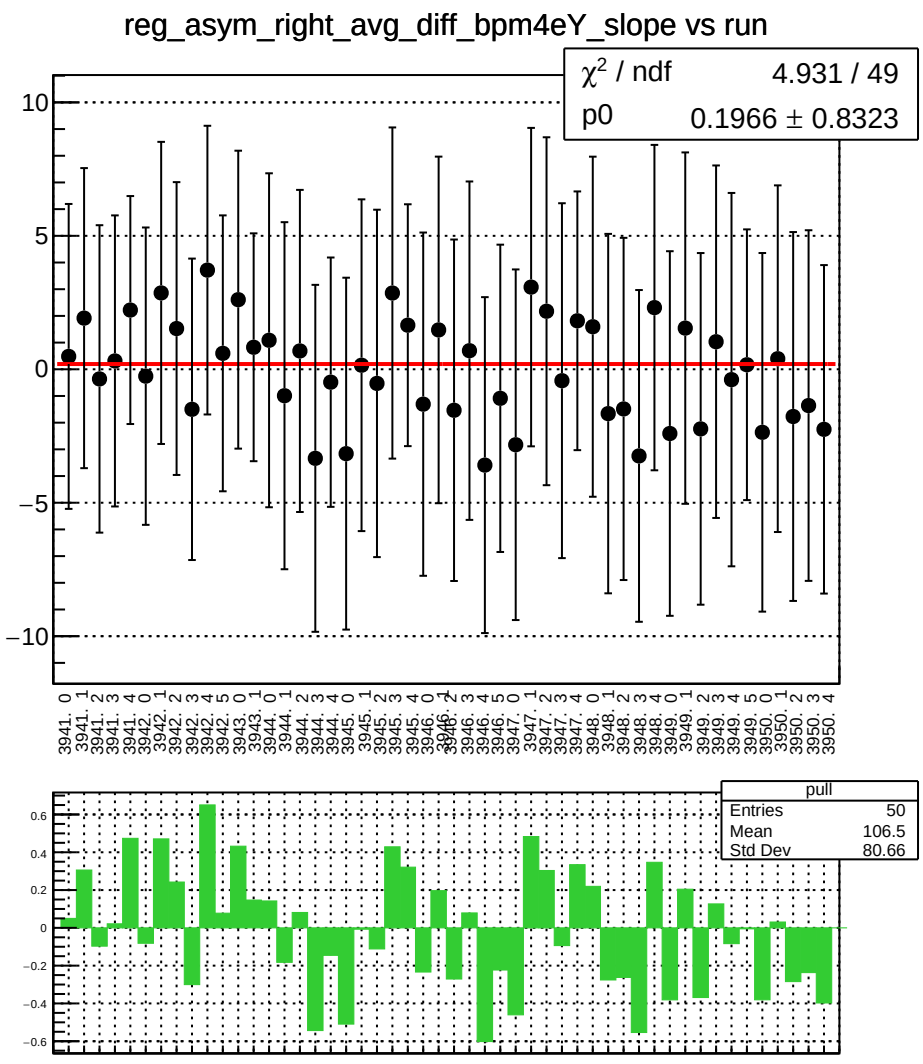

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.42 / 49
p0 −30.1 ± 0.6945
pull
Entries 50
Mean 92.93
Std Dev 71.01
pull1D
Entries 50
Mean −0.09843
Std Dev 0.7475

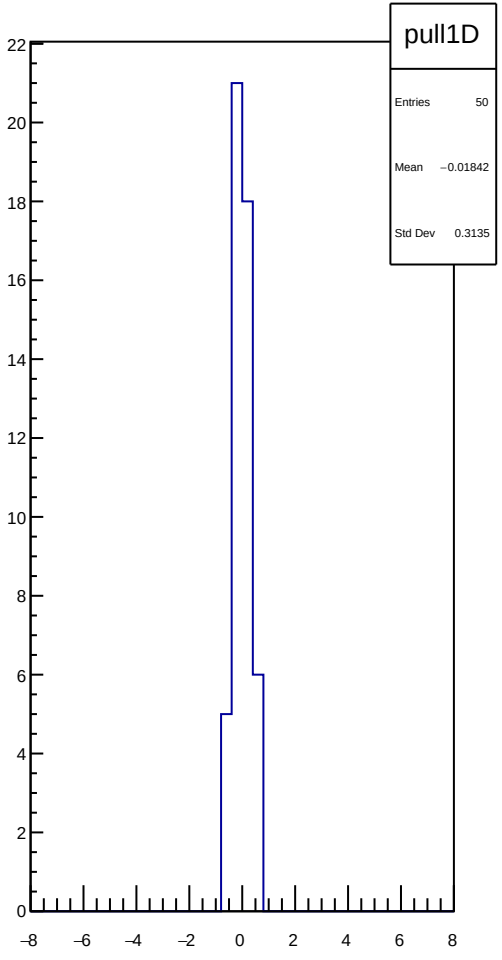

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.504 / 49
p0 7.235 ± 0.4955
pull
Entries 50
Mean 99.97
Std Dev 75.66

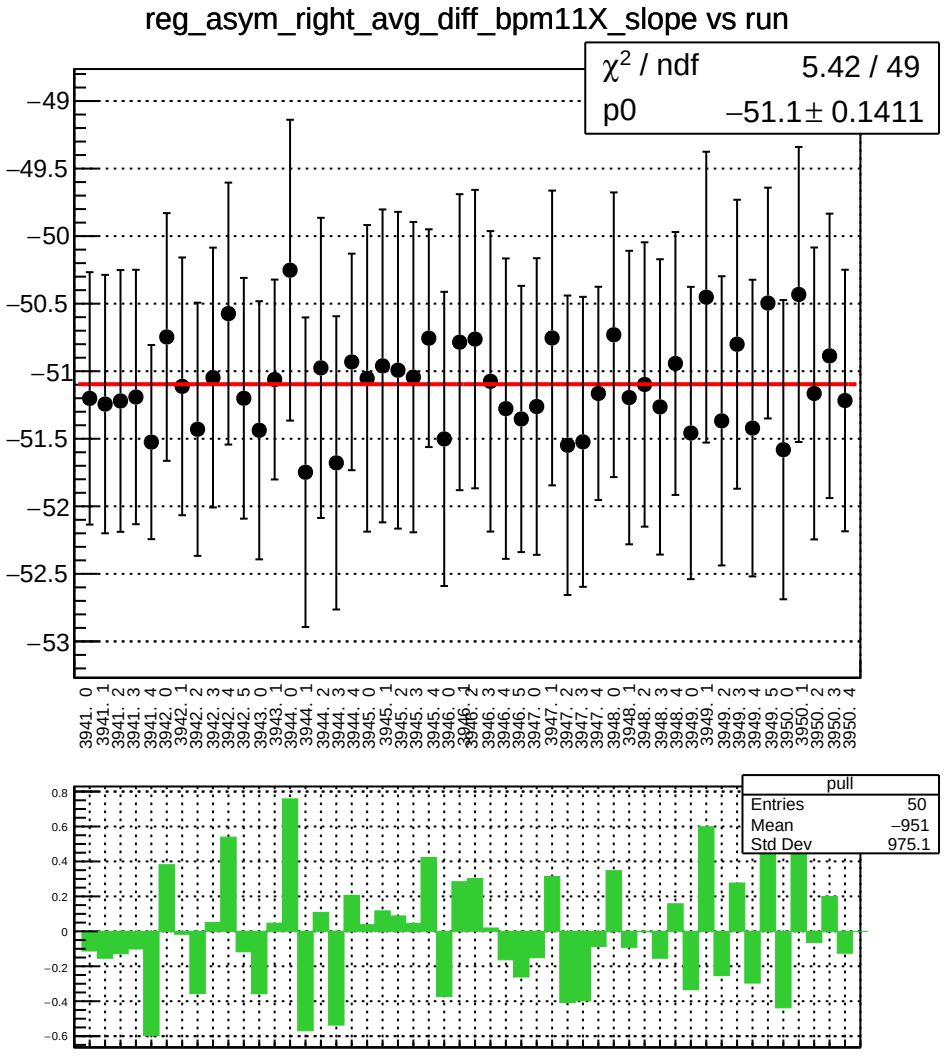

pull1D
Entries 50
Mean 0.01832
Std Dev 0.2996

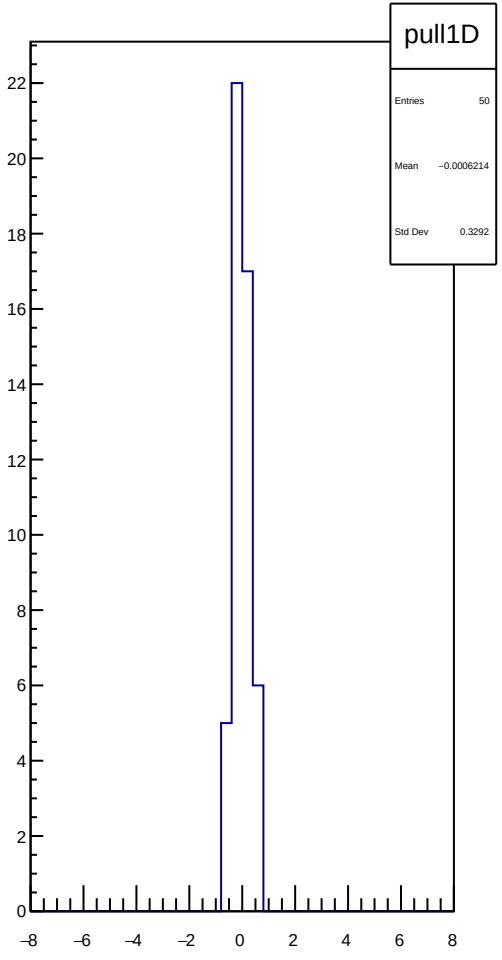

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 367.5 / 49
p0 30.7 ± 0.1116
pull
Entries 50
Mean 90.74
Std Dev 68.1

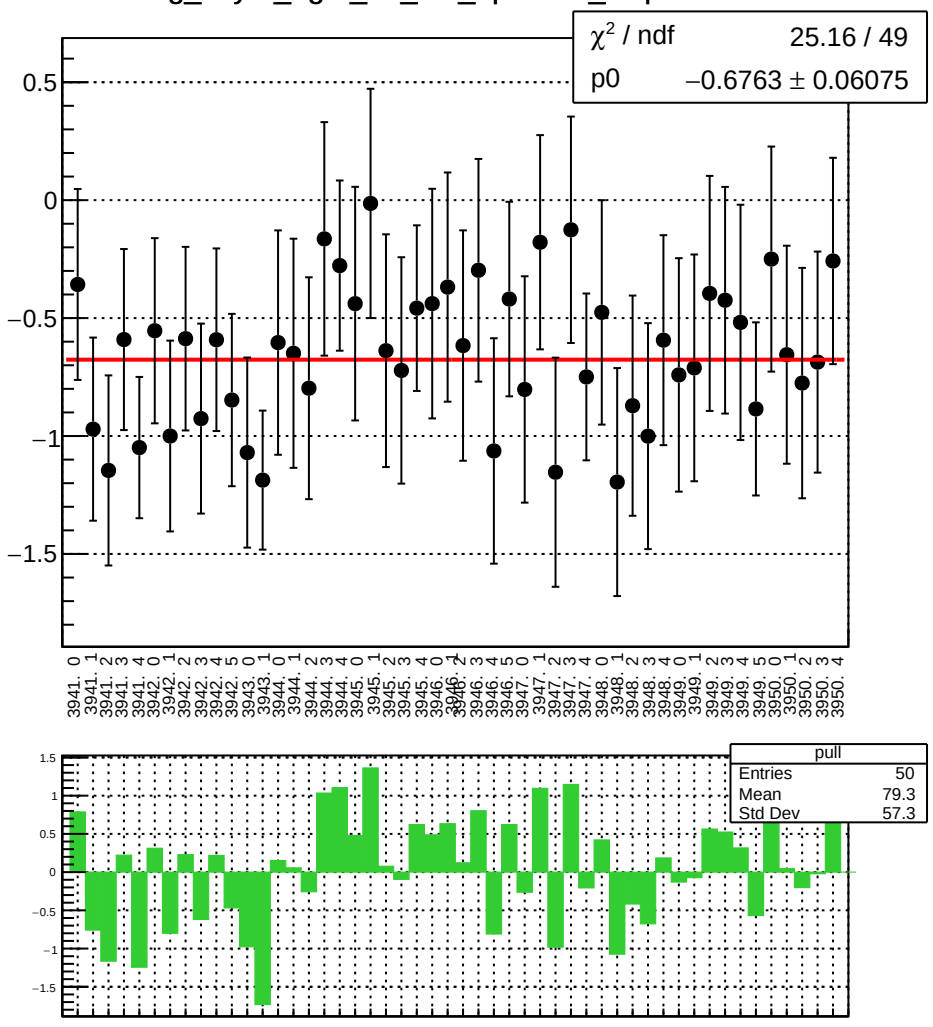

pull1D
Entries 50
Mean 0.4403
Std Dev 2.675

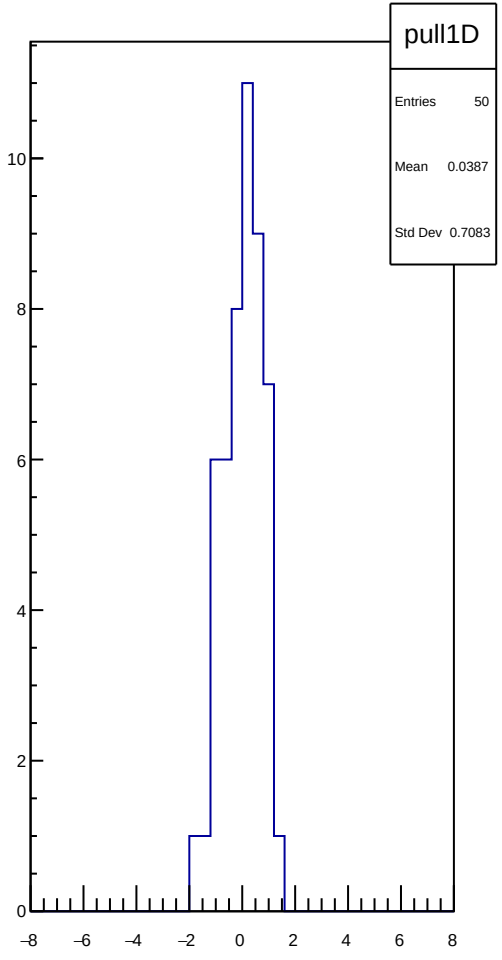

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.931 / 49
p0 0.1966 ± 0.8323
pull
Entries 50
Mean 106.5
Std Dev 80.66

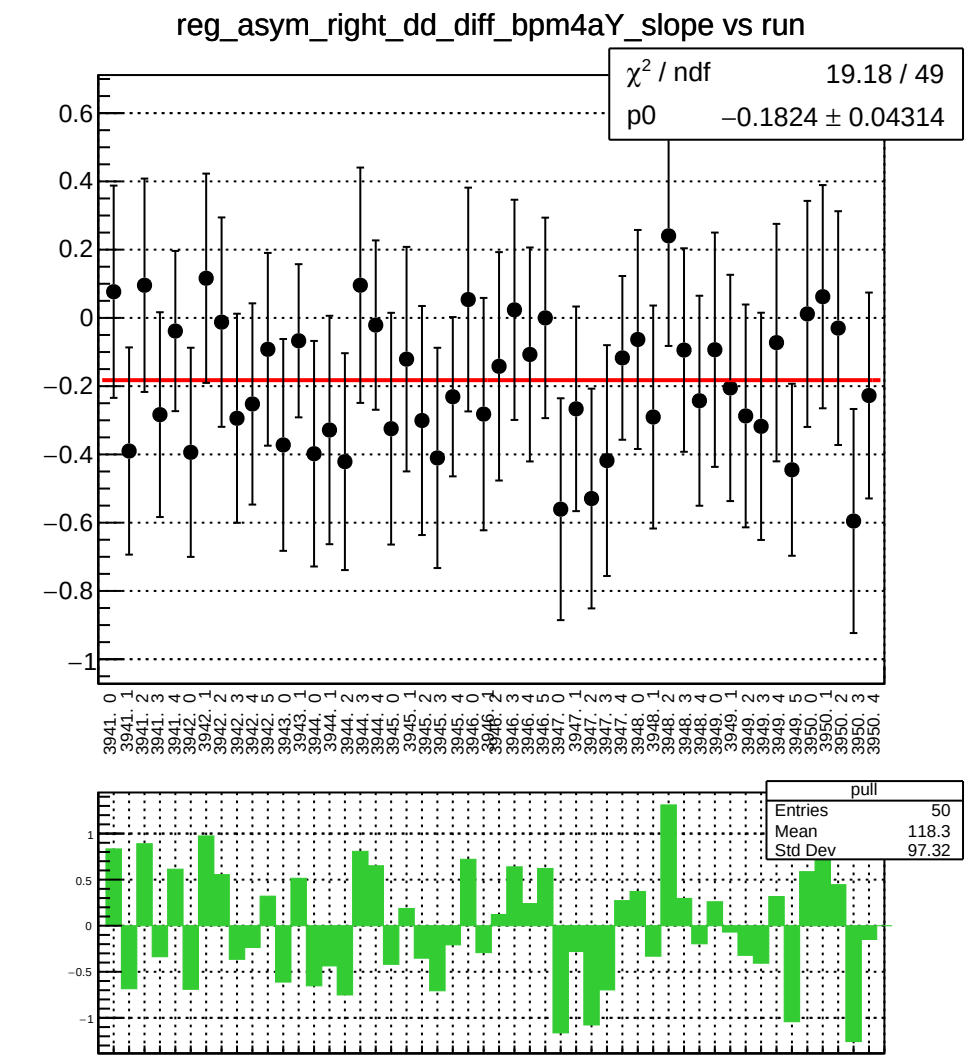

pull1D
Entries 50
Mean −0.01842
Std Dev 0.3135

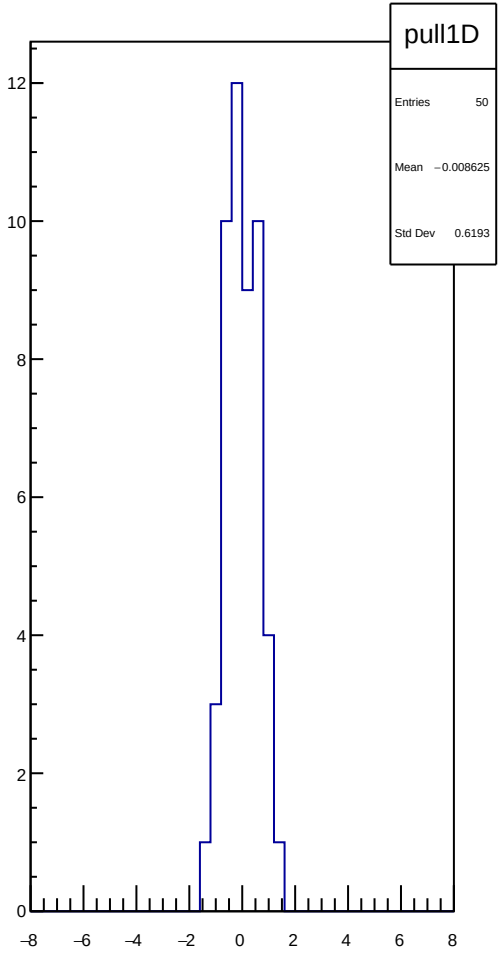

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 5.42 / 49
p0 −51.1 ± 0.1411
pull
Entries 50
Mean −951
Std Dev 975.1

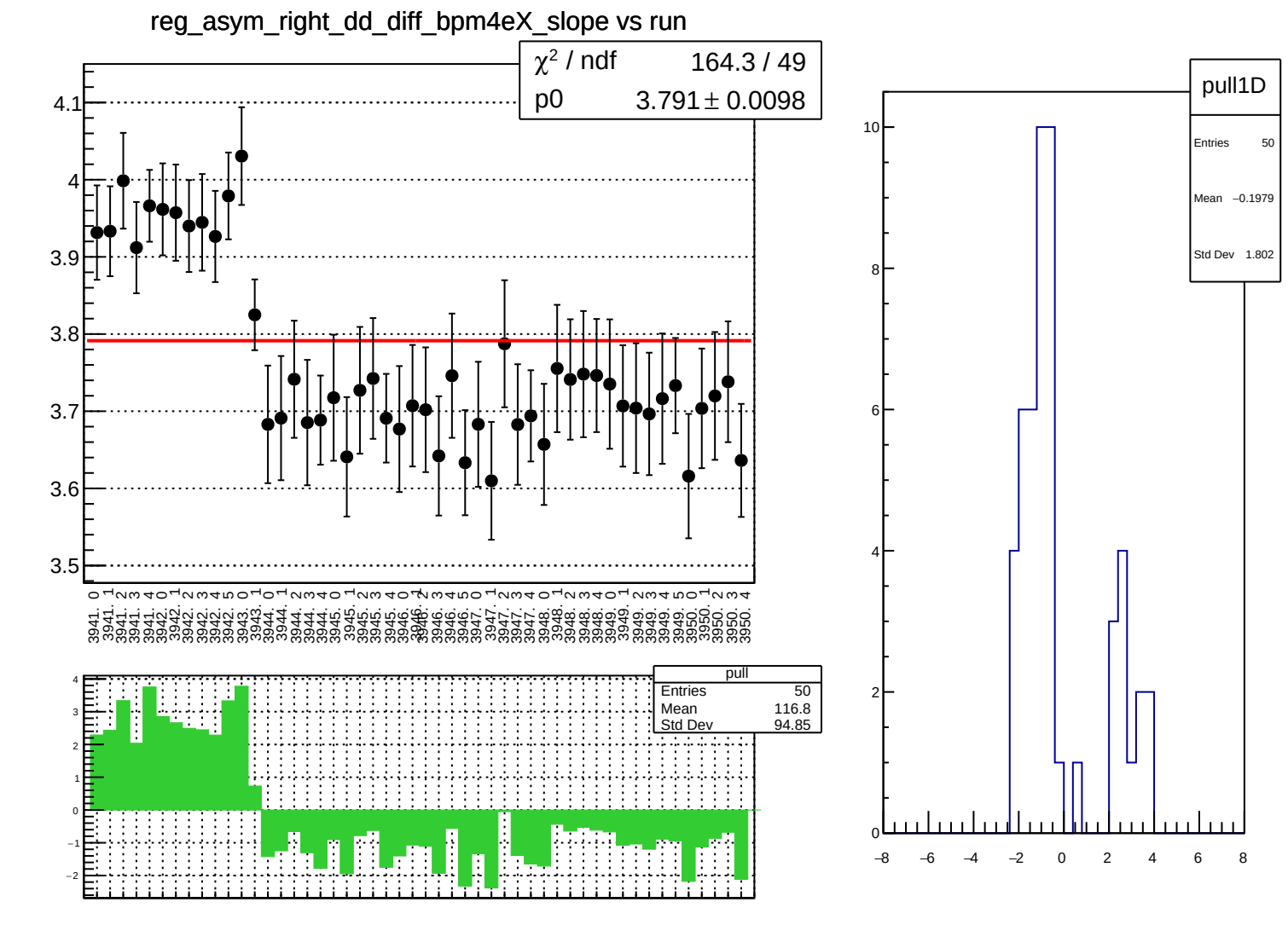

pull1D
Entries 50
Mean −0.0006214
Std Dev 0.3292

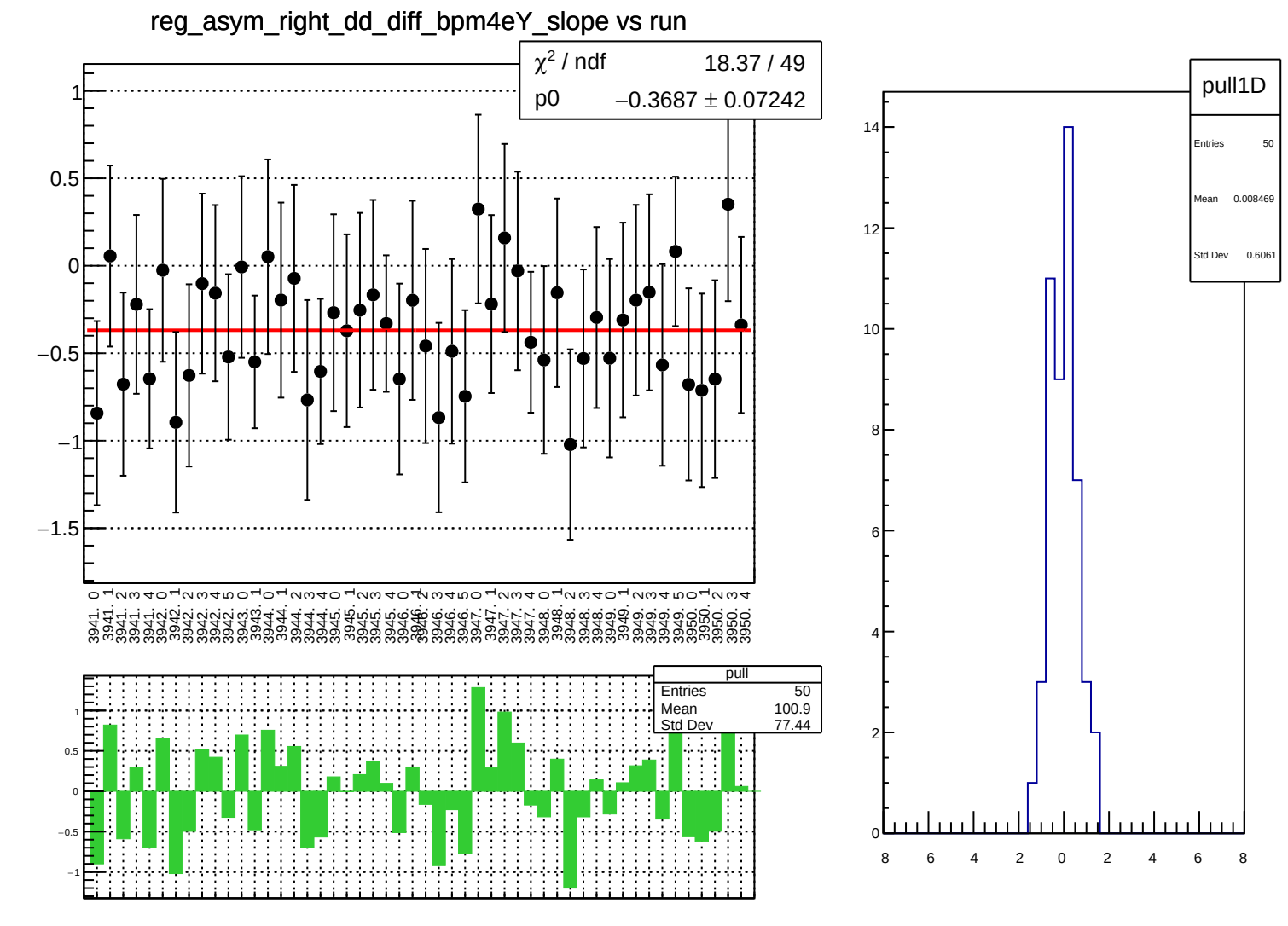

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.16 / 49
p0 −0.6763 ± 0.06075
pull
Entries 50
Mean 79.3
Std Dev 57.3

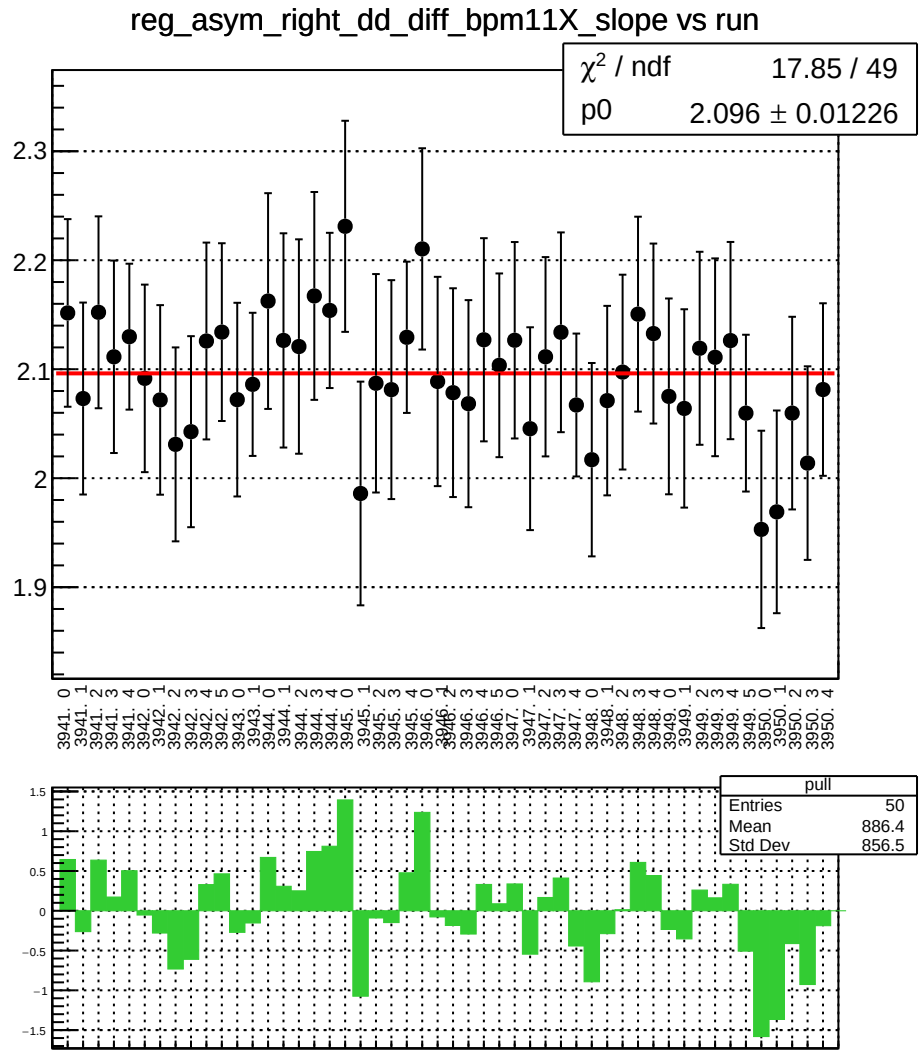

pull1D
Entries 50
Mean 0.0387
Std Dev 0.7083

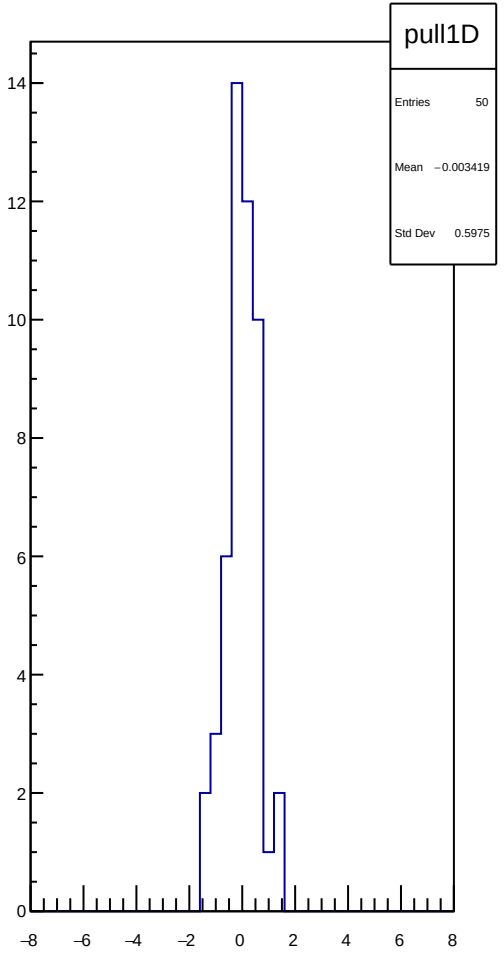

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.18 / 49
p0 −0.1824 ± 0.04314
pull
Entries 50
Mean 118.3
Std Dev 97.32

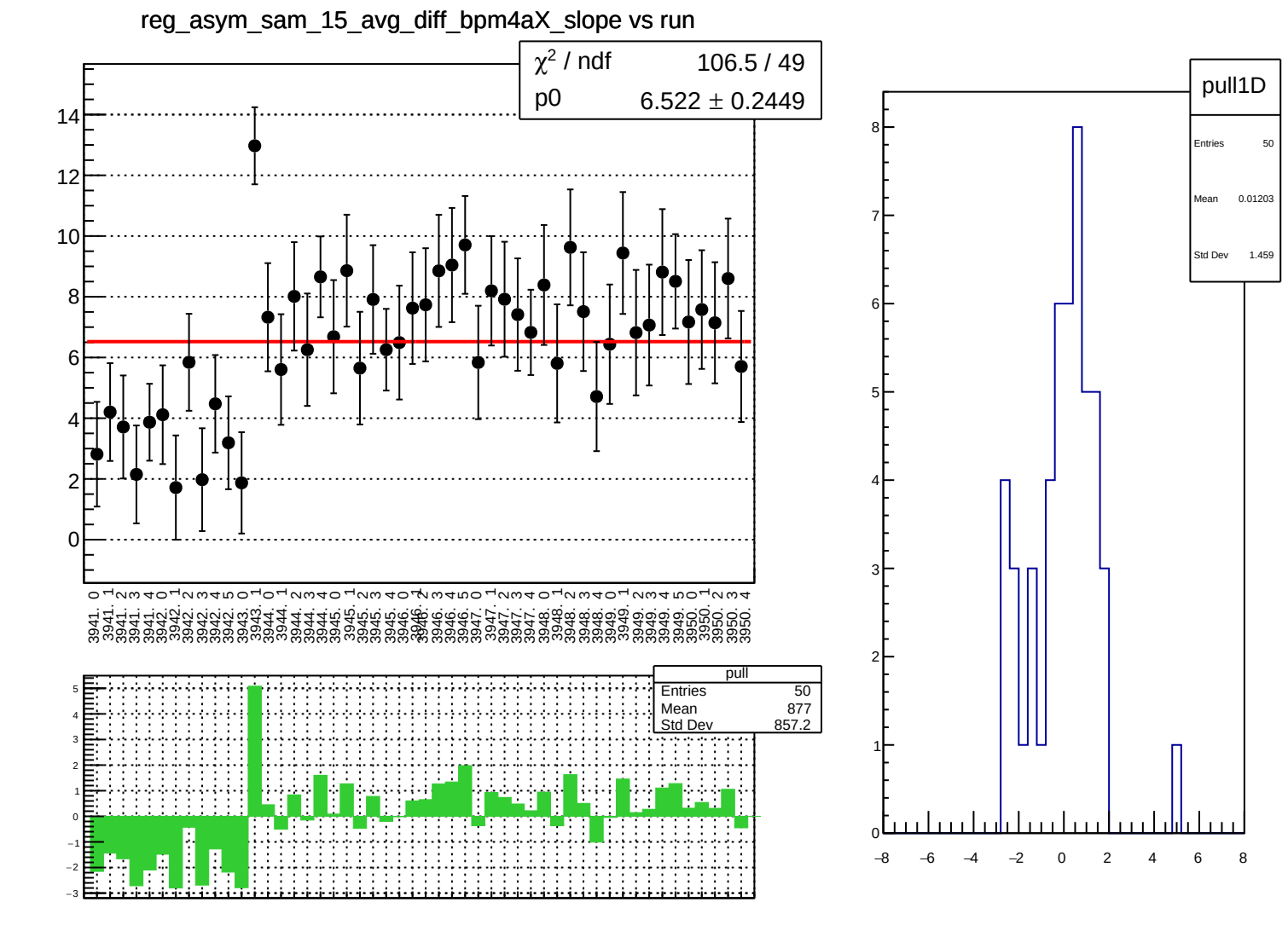

pull1D
Entries 50
Mean −0.008625
Std Dev 0.6193

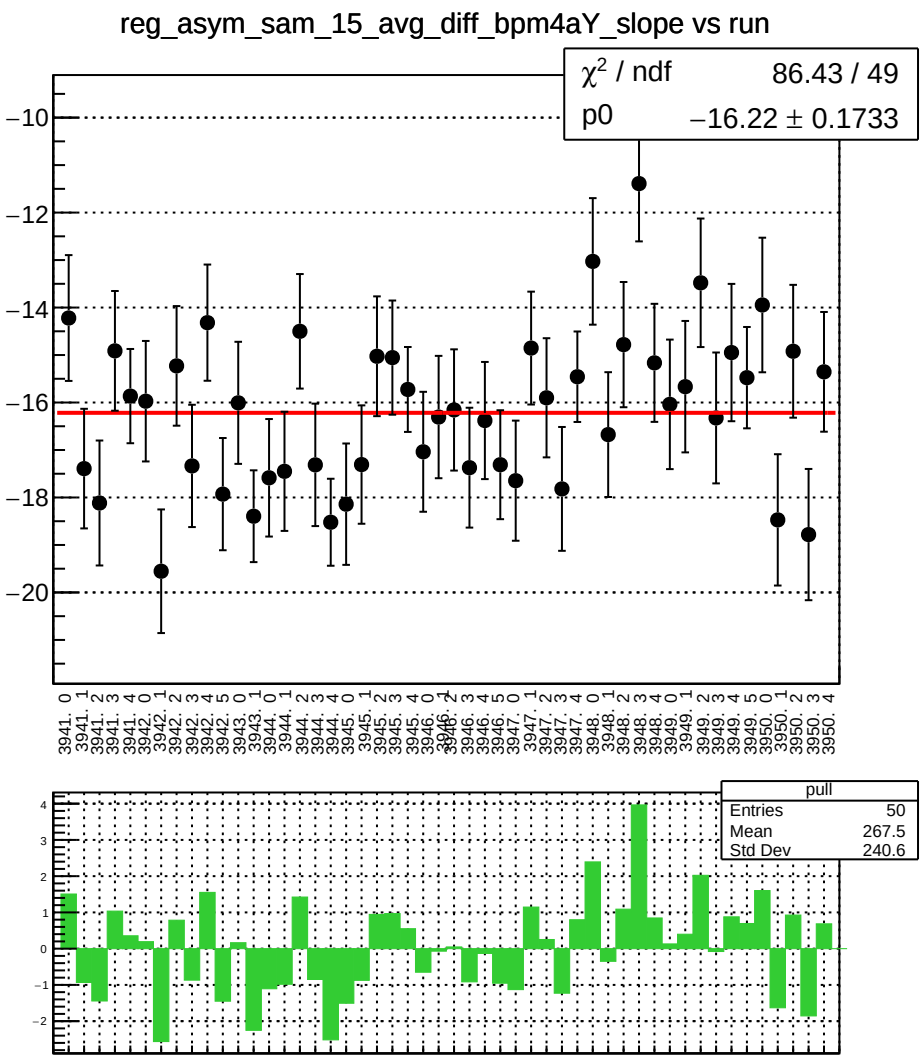

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 164.3 / 49
p0 3.791 ± 0.0098
pull
Entries 50
Mean 116.8
Std Dev 94.85
pull1D
Entries 50
Mean −0.1979
Std Dev 1.802

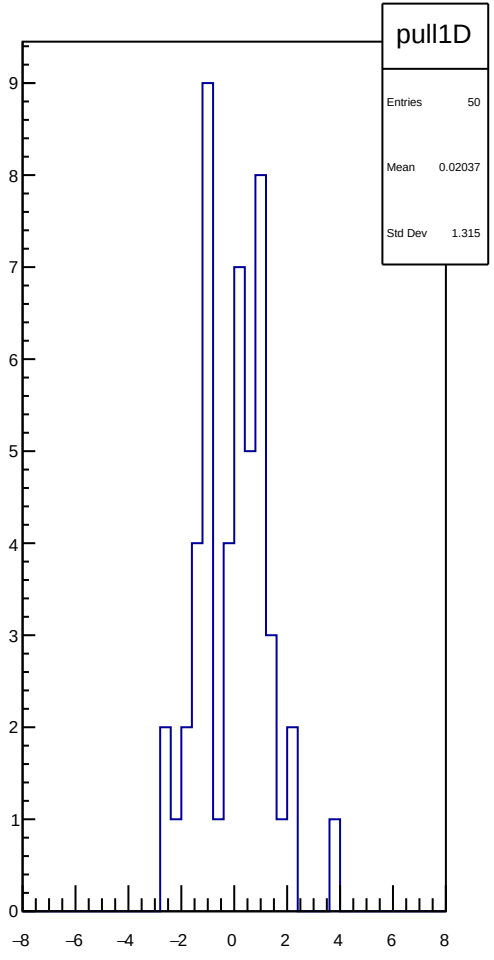

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.37 / 49
p0 −0.3687 ± 0.07242
pull
Entries 50
Mean 100.9
Std Dev 77.44
pull1D
Entries 50
Mean 0.008469
Std Dev 0.6061

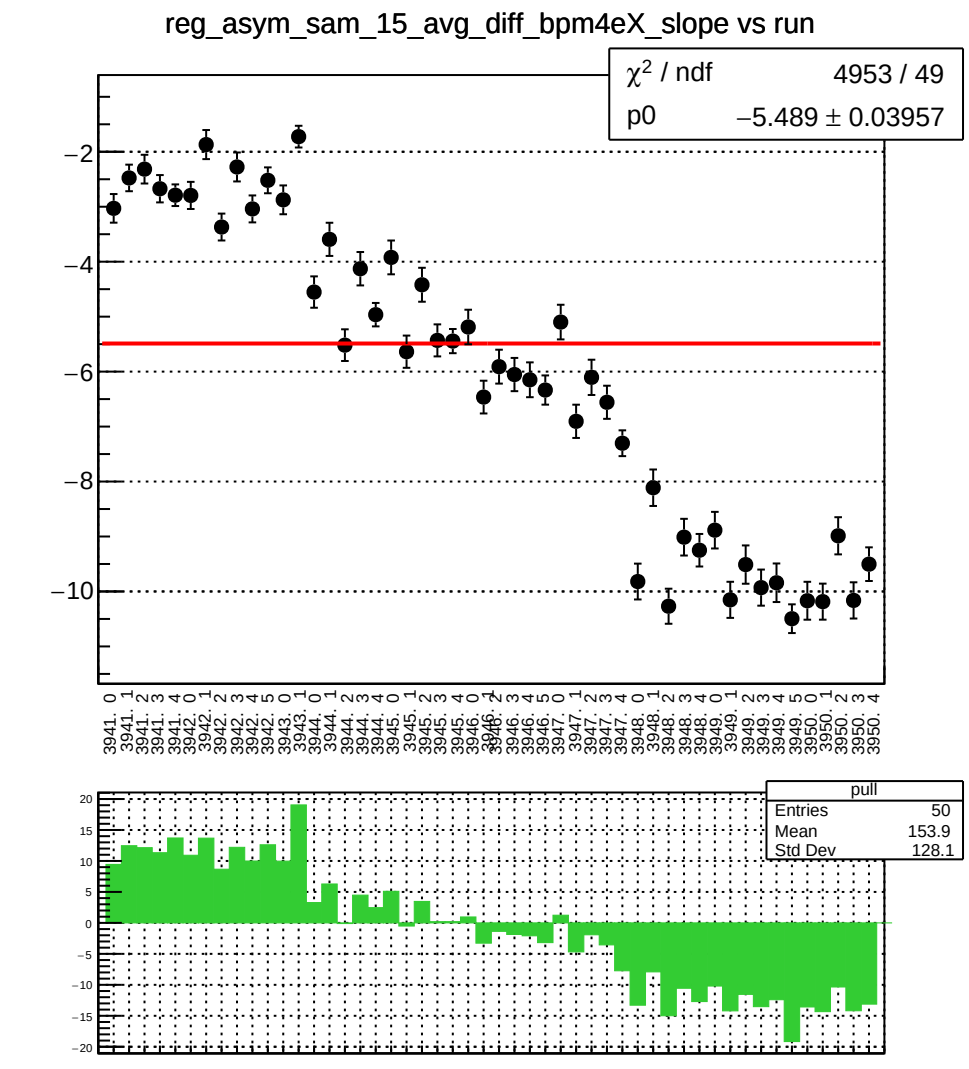

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 17.85 / 49
p0 2.096 ± 0.01226
pull
Entries 50
Mean 886.4
Std Dev 856.5

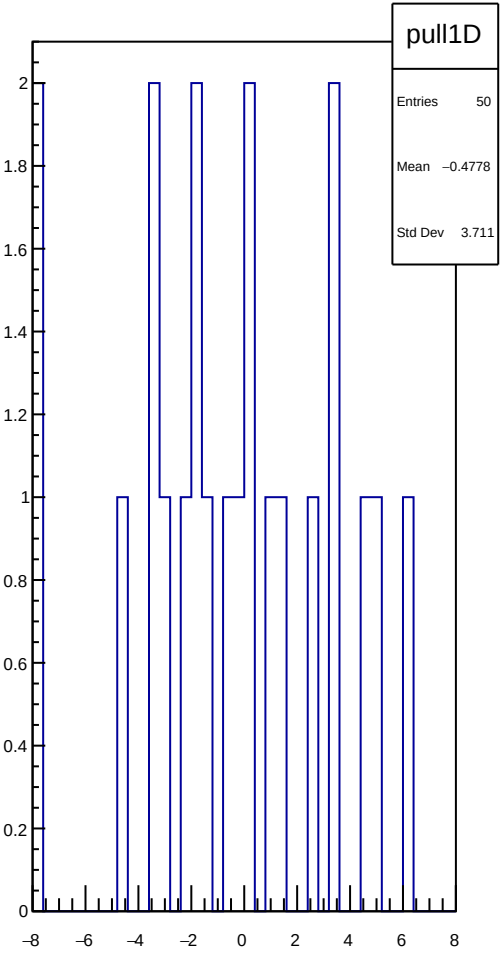

pull1D
Entries 50
Mean −0.003419
Std Dev 0.5975

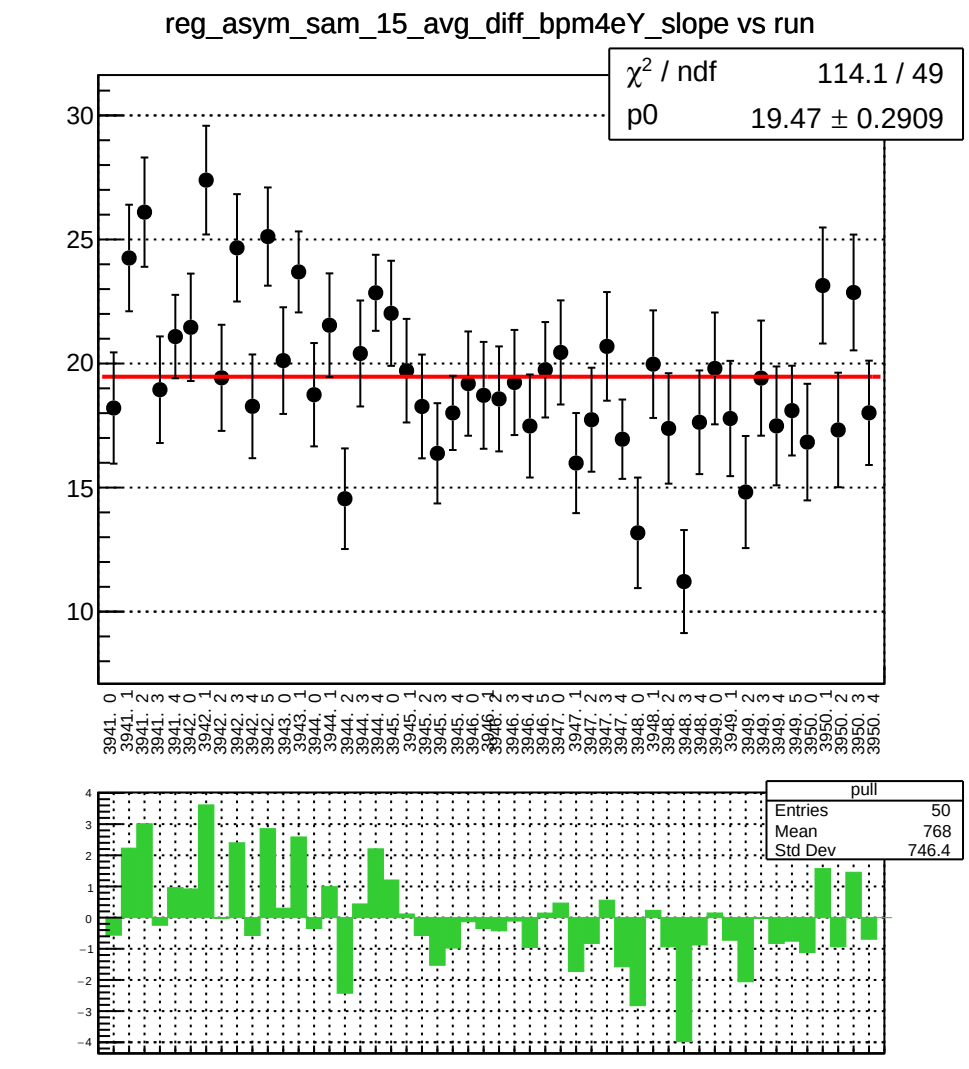

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 106.5 / 49
p0 6.522 ± 0.2449
pull
Entries 50
Mean 877
Std Dev 857.2
pull1D
Entries 50
Mean 0.01203
Std Dev 1.459

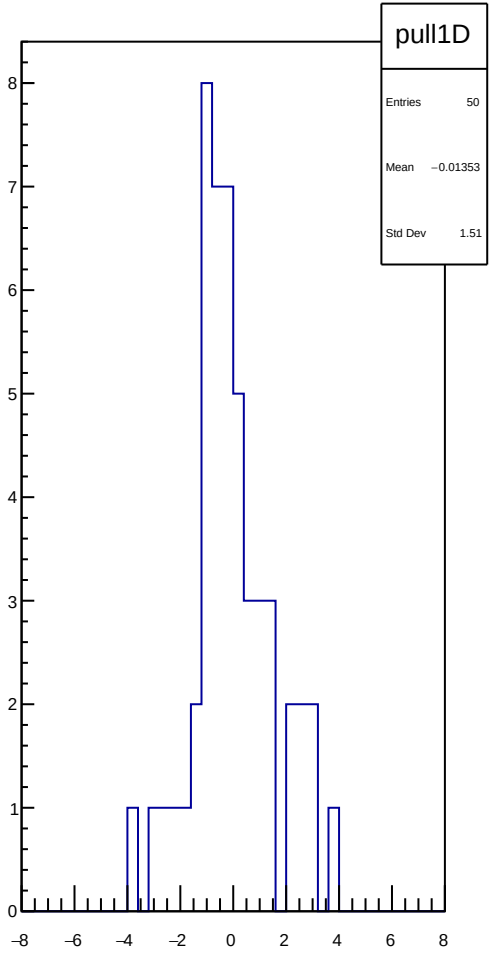

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.43 / 49
p0 −16.22 ± 0.1733
pull
Entries 50
Mean 267.5
Std Dev 240.6

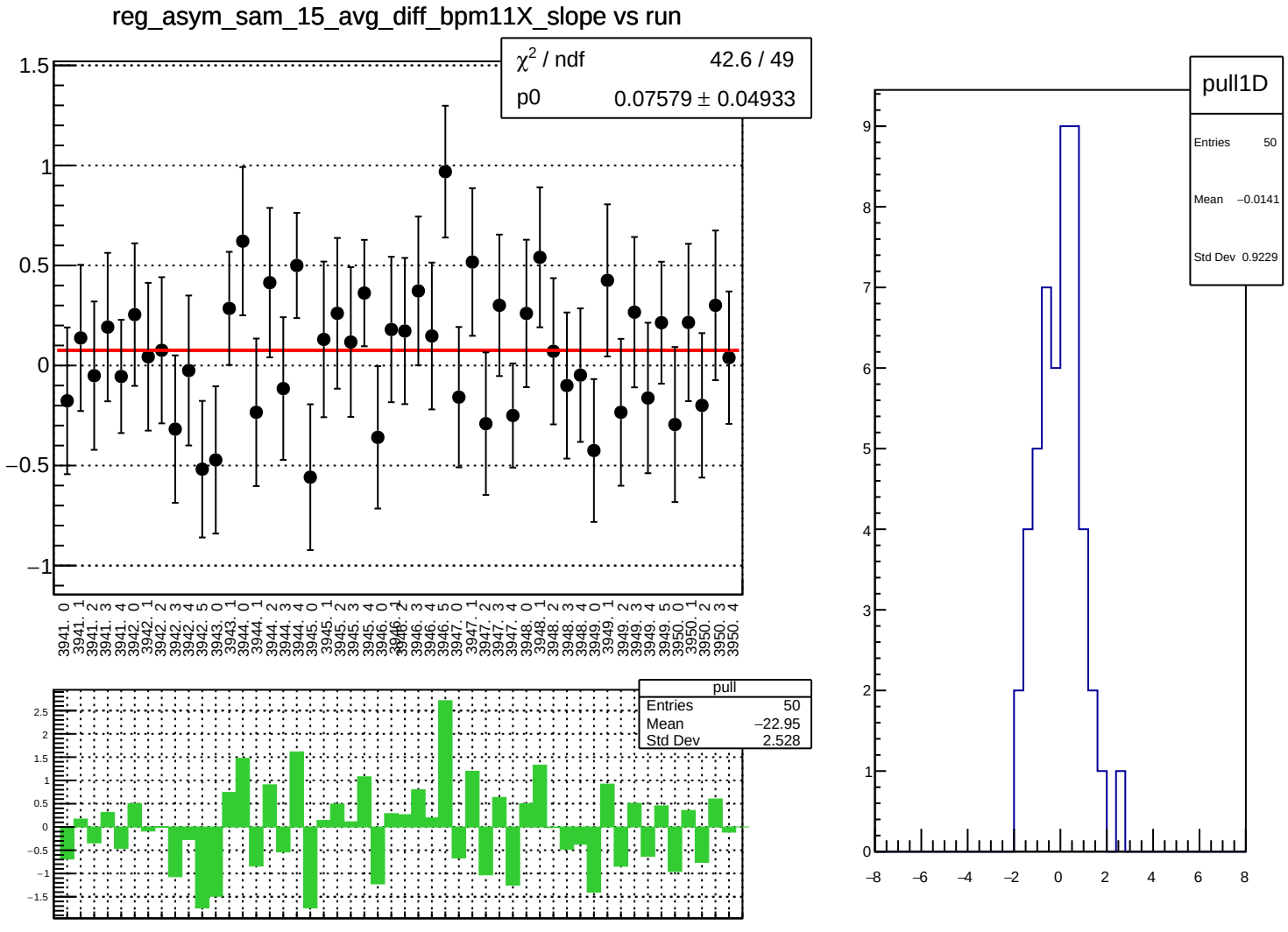

pull1D
Entries 50
Mean 0.02037
Std Dev 1.315

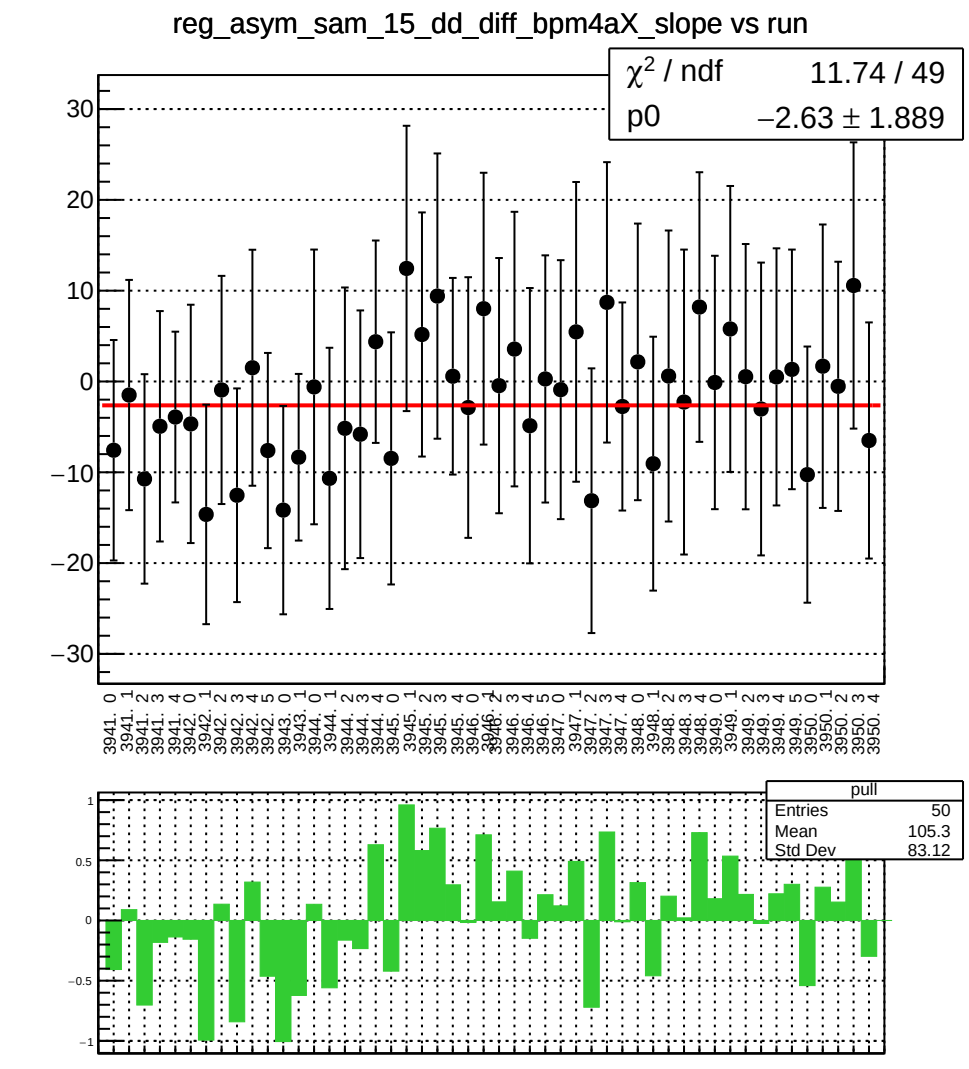

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 4953 / 49
p0 −5.489 ± 0.03957
pull
Entries 50
Mean 153.9
Std Dev 128.1

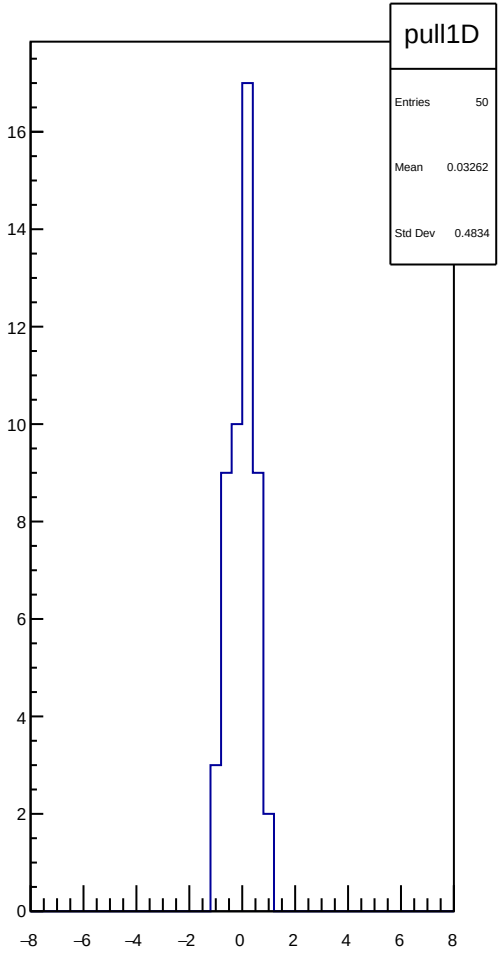

pull1D
Entries 50
Mean −0.4778
Std Dev 3.711

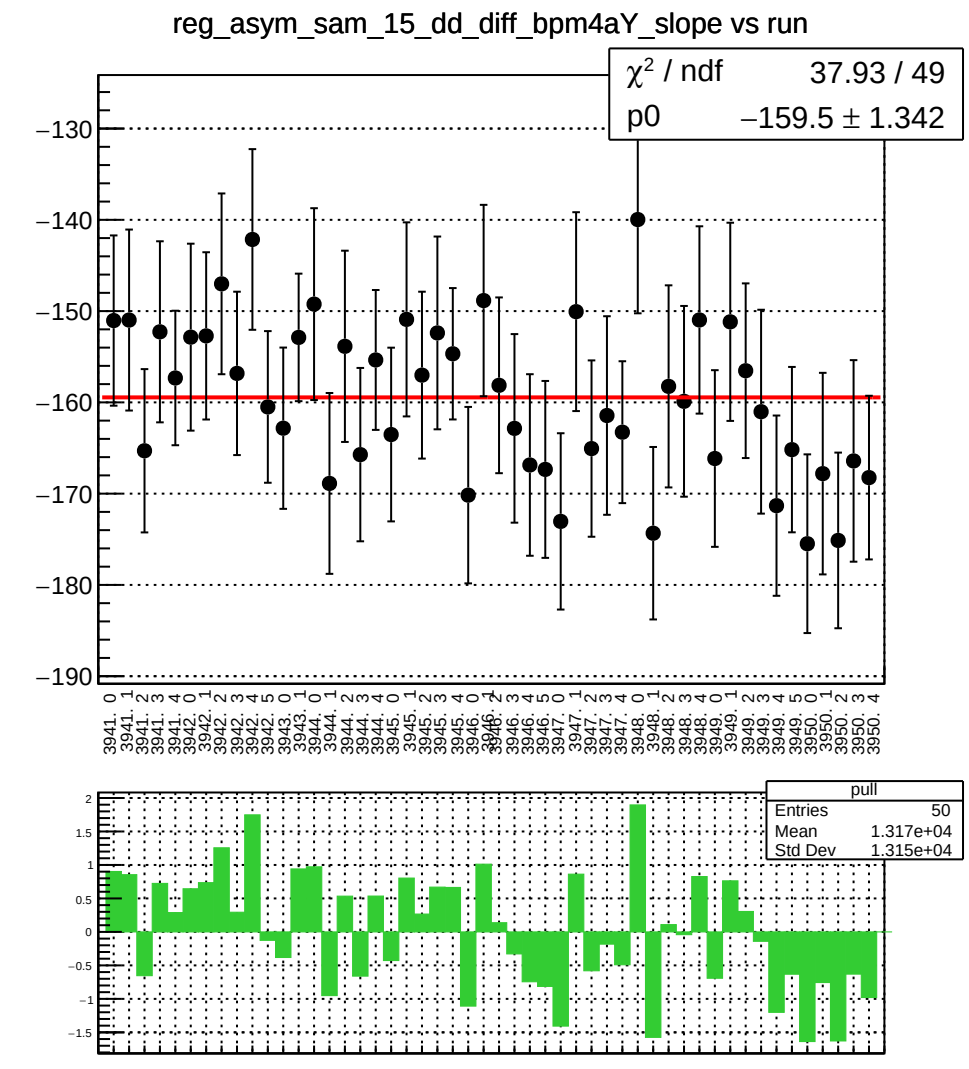

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 114.1 / 49
p0 19.47 ± 0.2909
pull
Entries 50
Mean 768
Std Dev 746.4

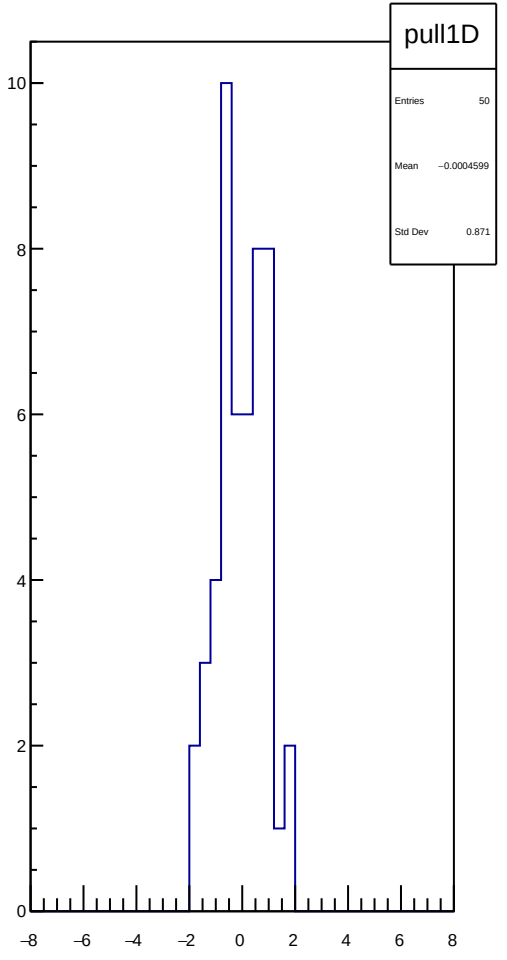

pull1D
Entries 50
Mean −0.01353
Std Dev 1.51

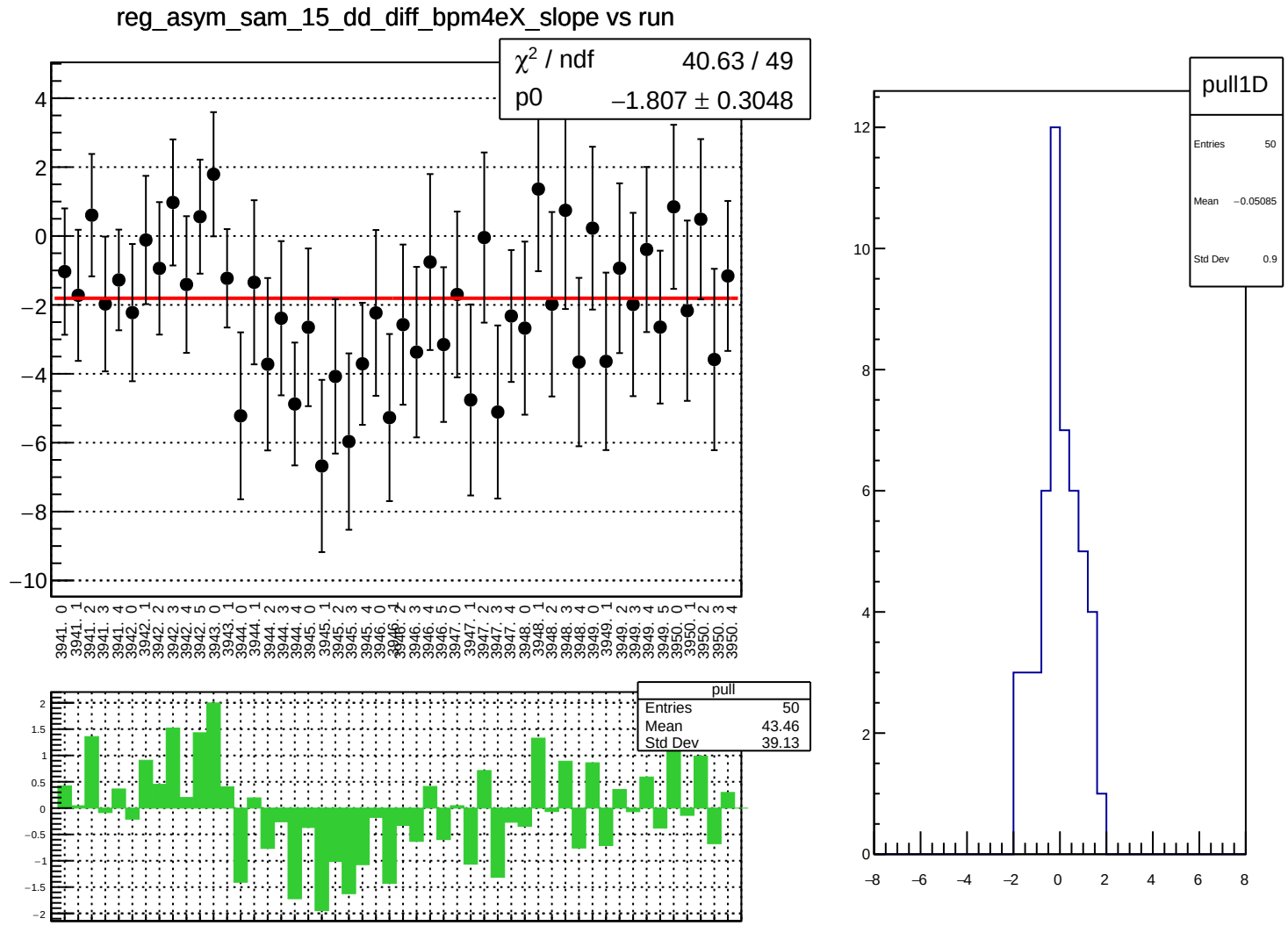

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 42.6 / 49
p0 0.07579 ± 0.04933
pull
Entries 50
Mean −22.95
Std Dev 2.528
pull1D
Entries 50
Mean −0.0141
Std Dev 0.9229

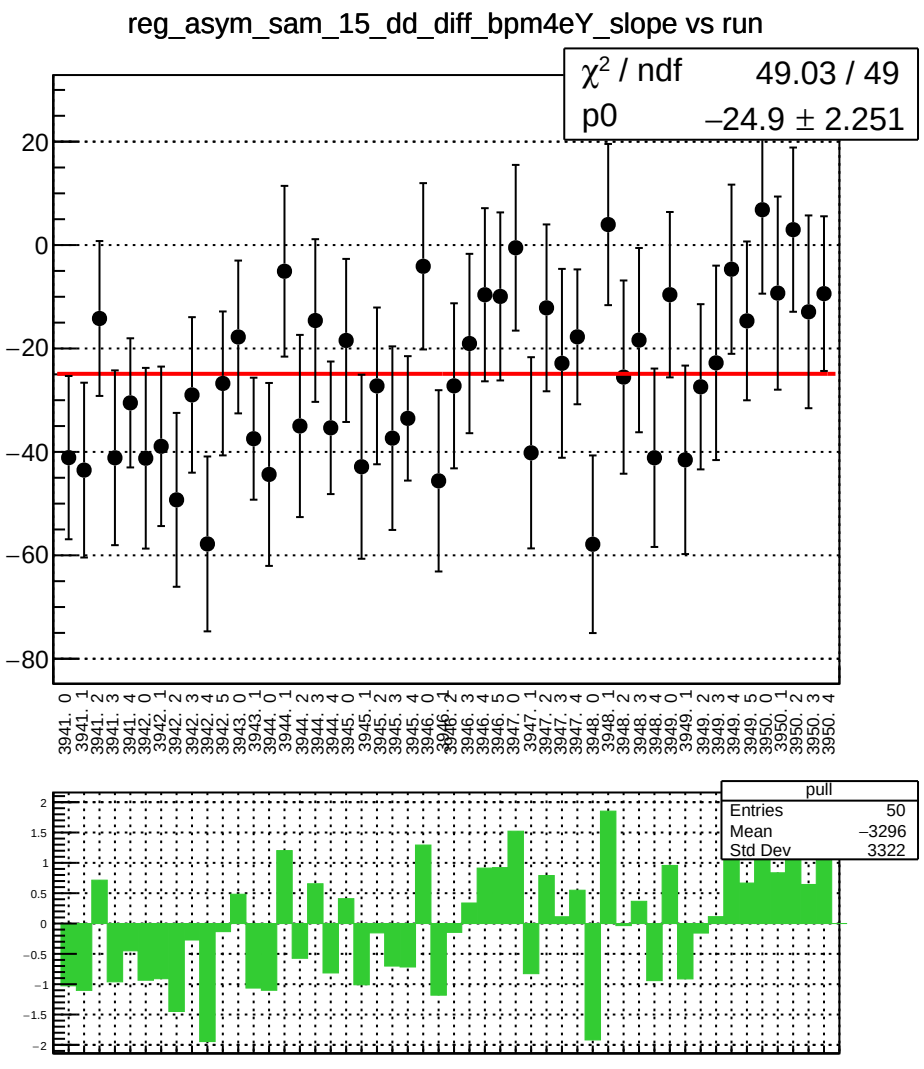

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.74 / 49
p0 −2.63 ± 1.889
pull
Entries 50
Mean 105.3
Std Dev 83.12

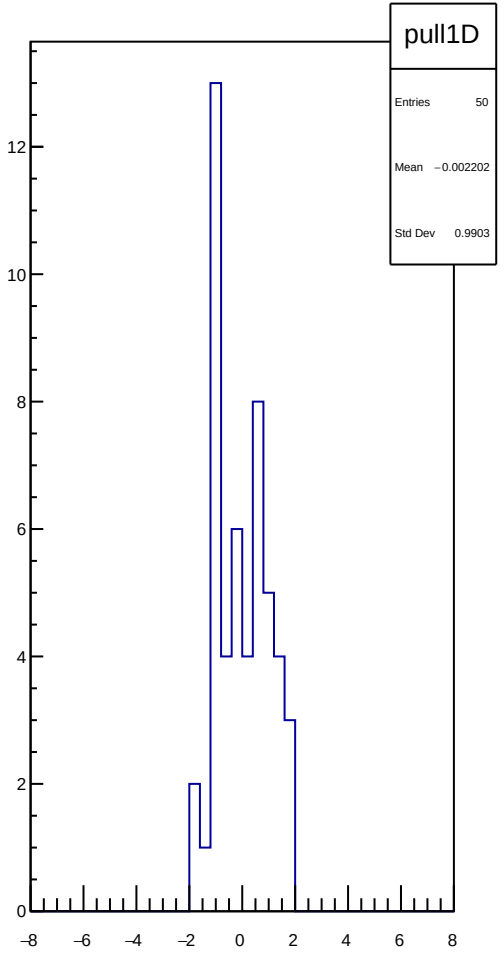

pull1D
Entries 50
Mean 0.03262
Std Dev 0.4834

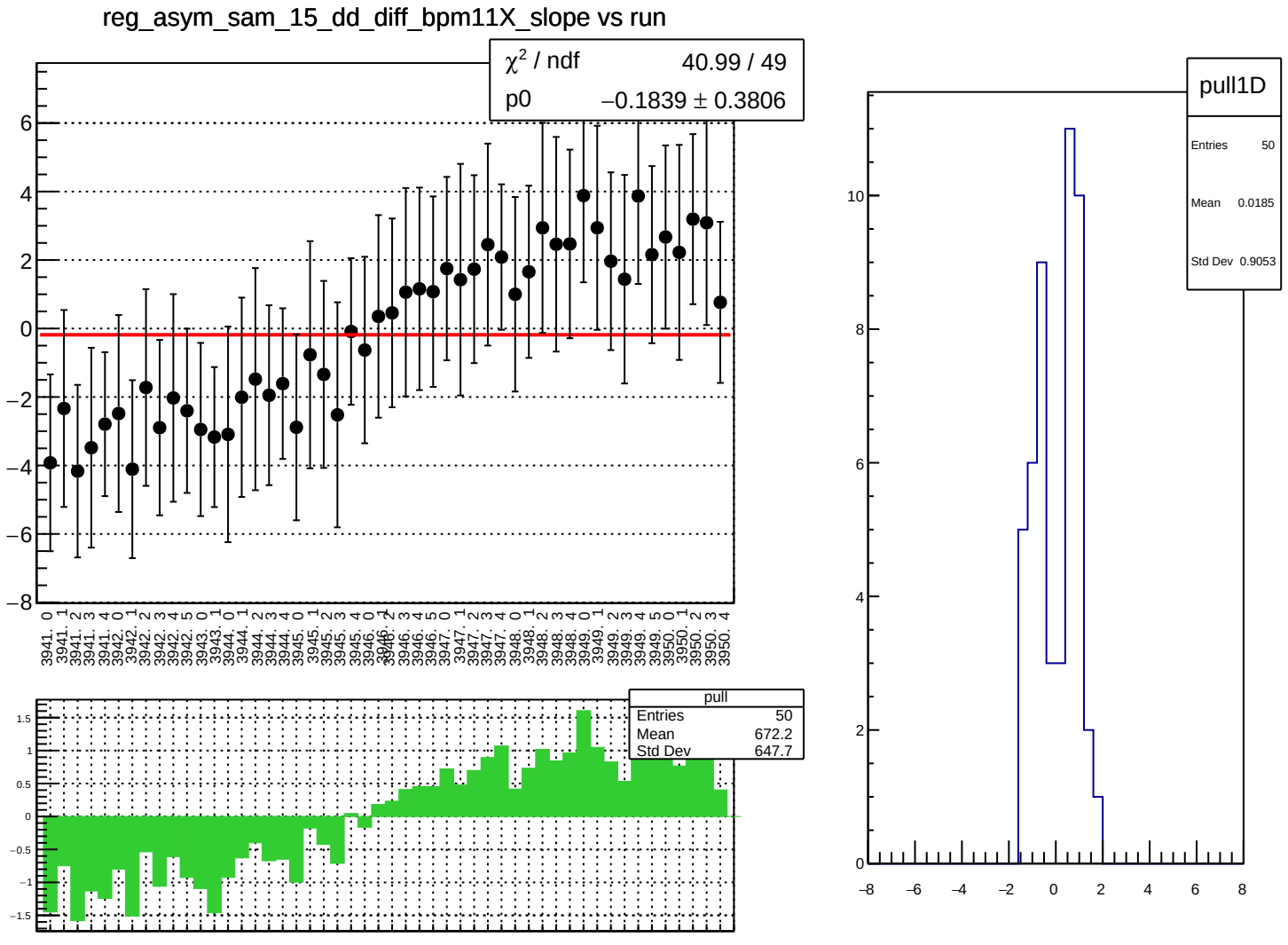

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.93 / 49
p0 −159.5 ± 1.342
pull
Entries 50
Mean 1.317e+04
Std Dev 1.315e+04

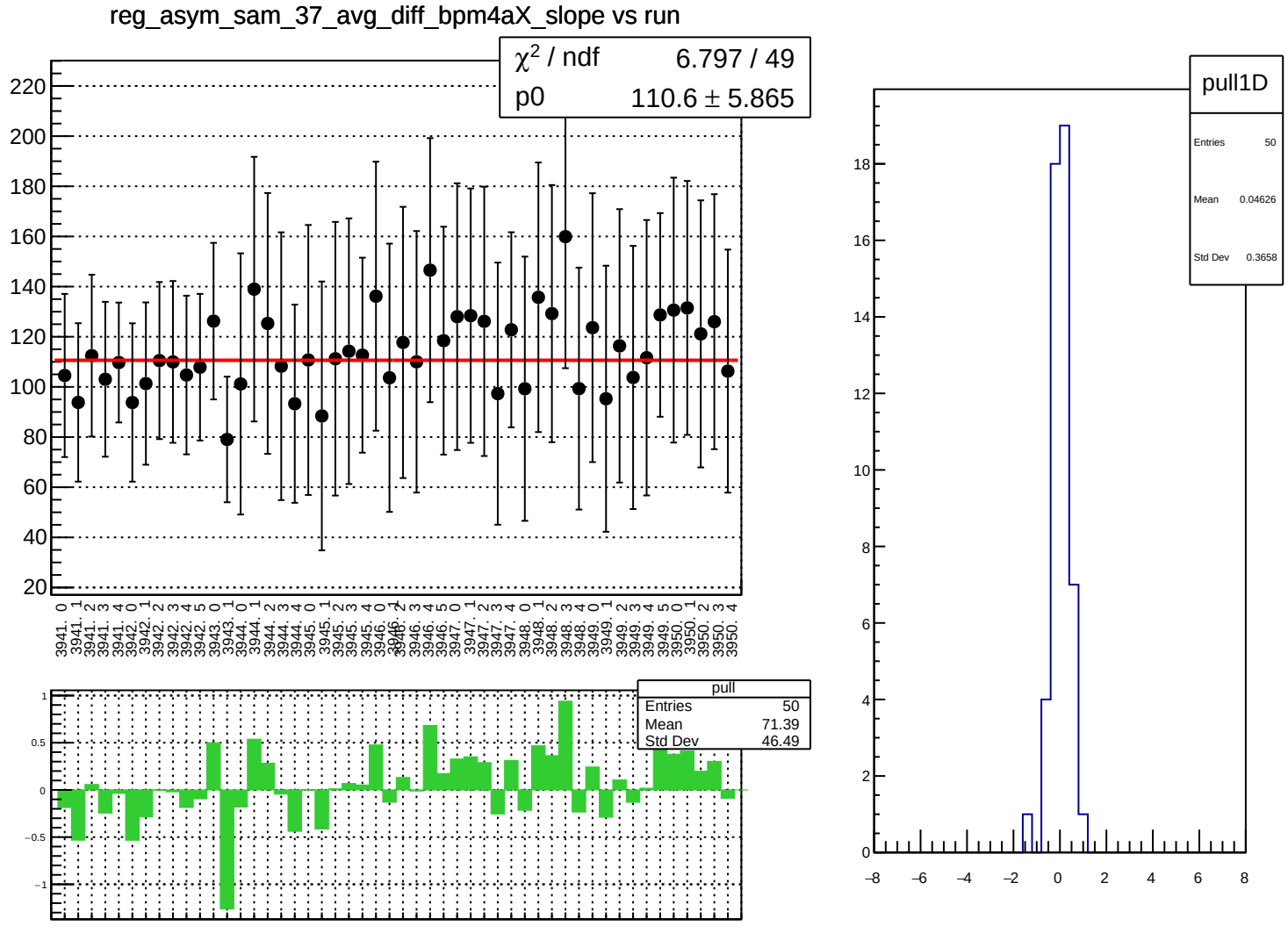

pull1D
Entries 50
Mean −0.0004599
Std Dev 0.871

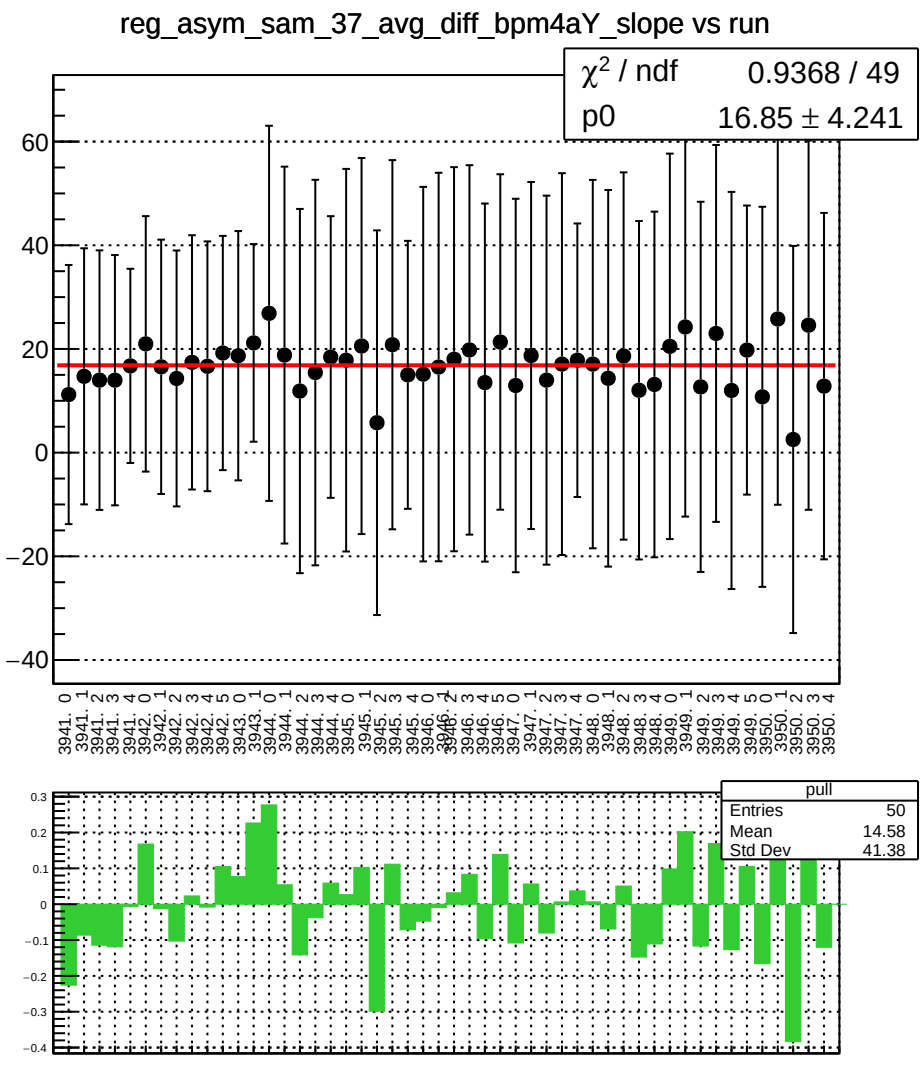

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.63 / 49
p0 −1.807 ± 0.3048
pull
Entries 50
Mean 43.46
Std Dev 39.13
pull1D
Entries 50
Mean −0.05085
Std Dev 0.9

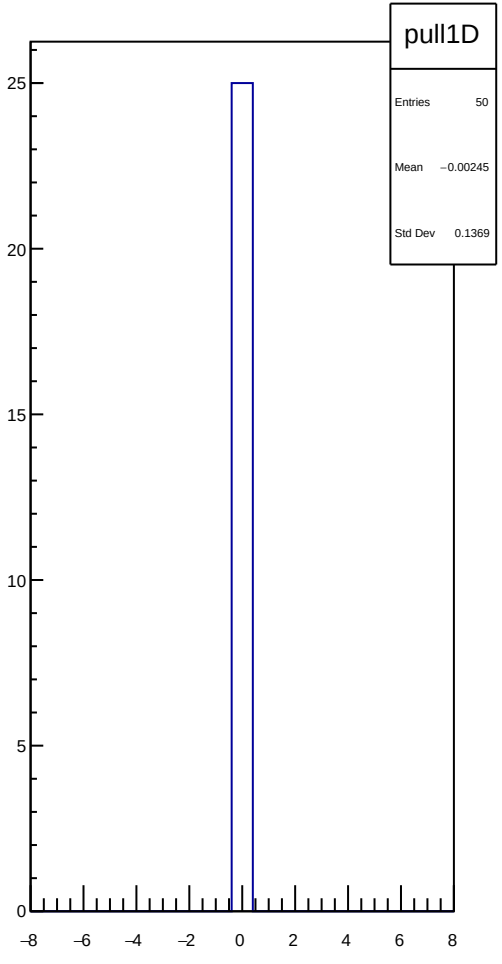

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.03 / 49
p0 −24.9 ± 2.251
pull
Entries 50
Mean −3296
Std Dev 3322

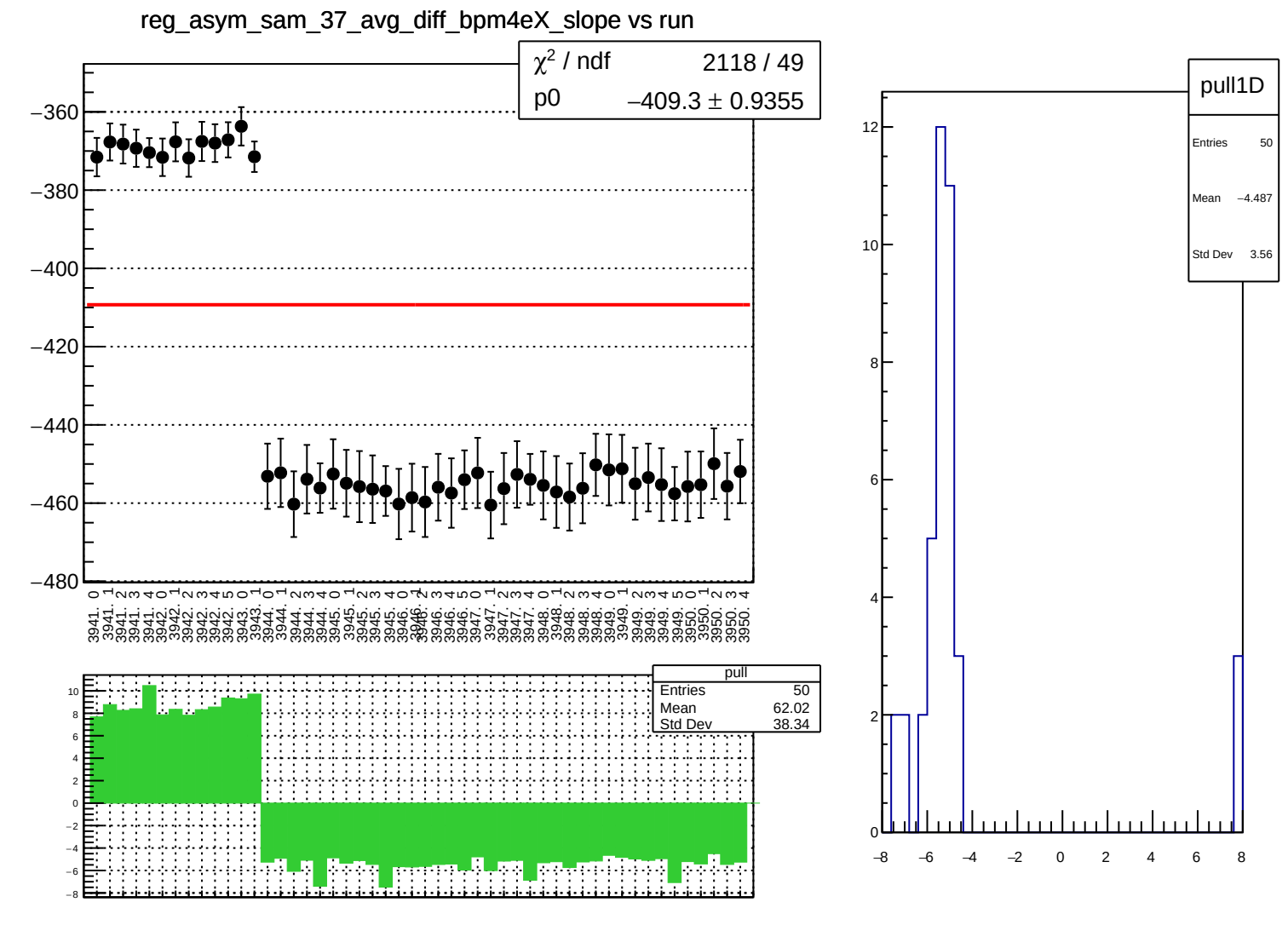

pull1D
Entries 50
Mean −0.002202
Std Dev 0.9903

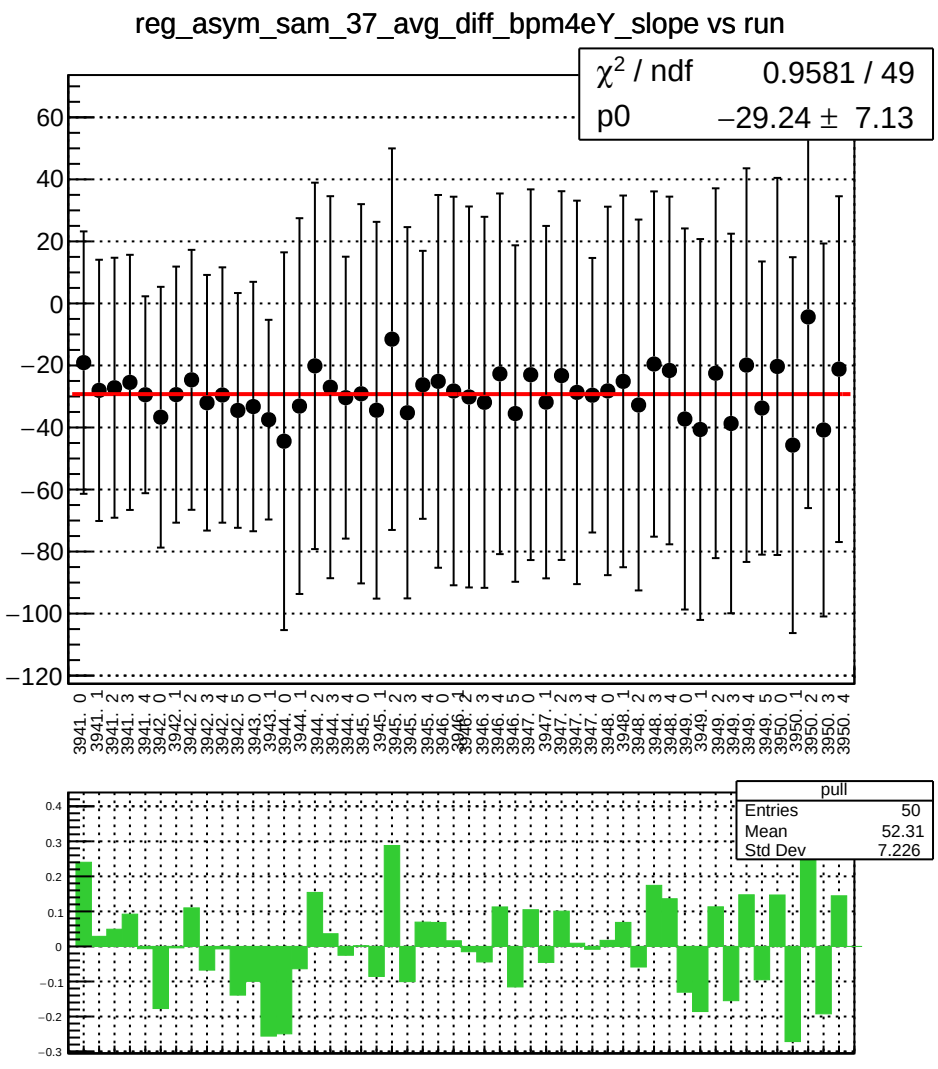

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 40.99 / 49
p0 −0.1839 ± 0.3806
pull
Entries 50
Mean 672.2
Std Dev 647.7
pull1D
Entries 50
Mean 0.0185
Std Dev 0.9053

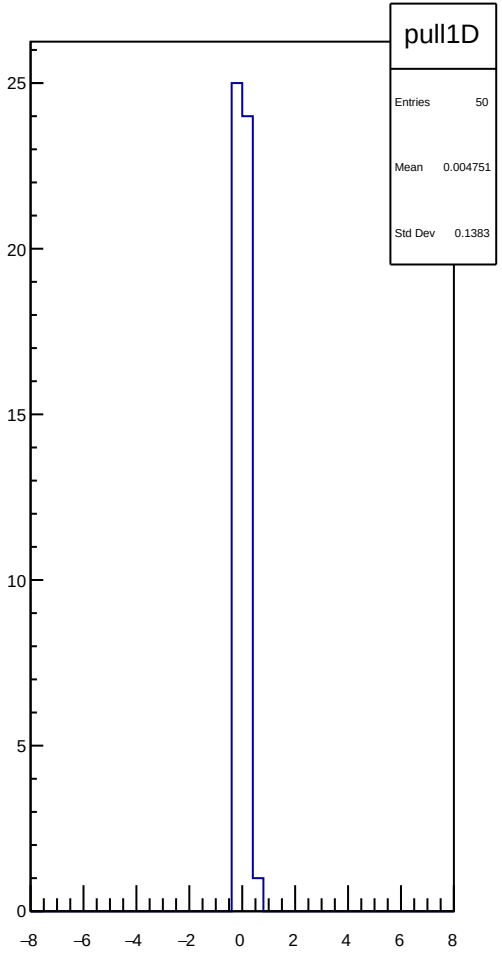

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.797 / 49
p0 110.6 ± 5.865
pull
Entries 50
Mean 71.39
Std Dev 46.49
pull1D
Entries 50
Mean 0.04626
Std Dev 0.3658

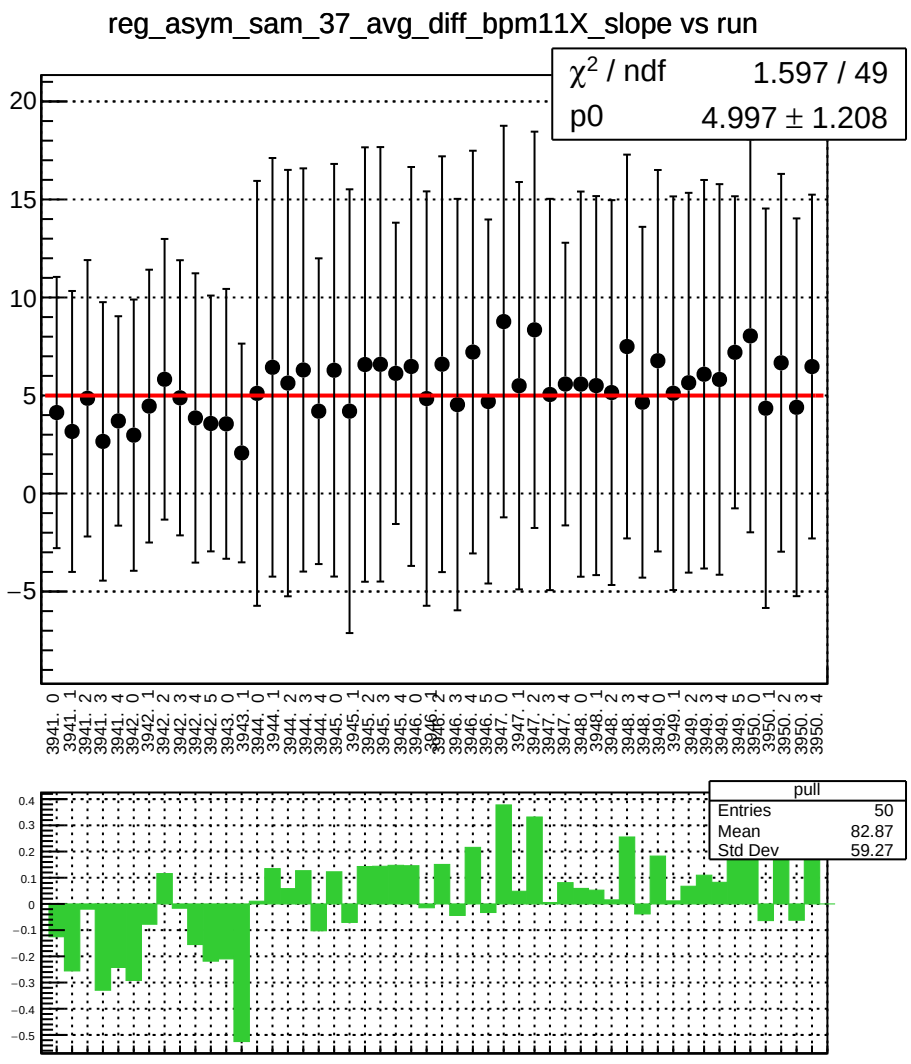

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.9368 / 49
p0 16.85 ± 4.241
pull
Entries 50
Mean 14.58
Std Dev 41.38

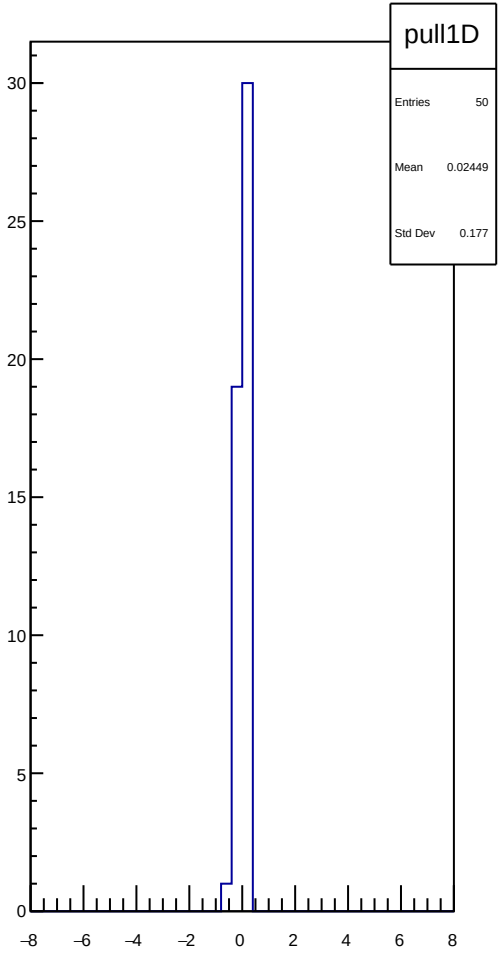

pull1D
Entries 50
Mean −0.00245
Std Dev 0.1369

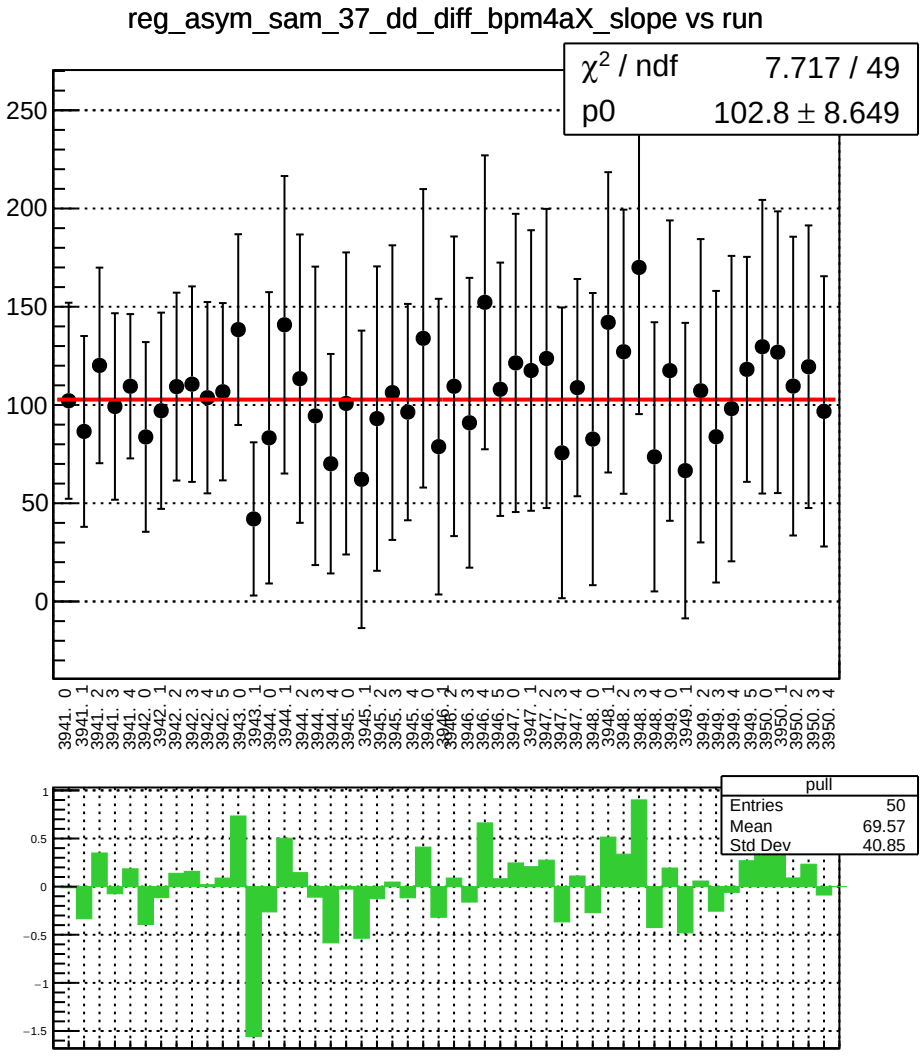

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2118 / 49
p0 −409.3 ± 0.9355
pull
Entries 50
Mean 62.02
Std Dev 38.34
pull1D
Entries 50
Mean −4.487
Std Dev 3.56

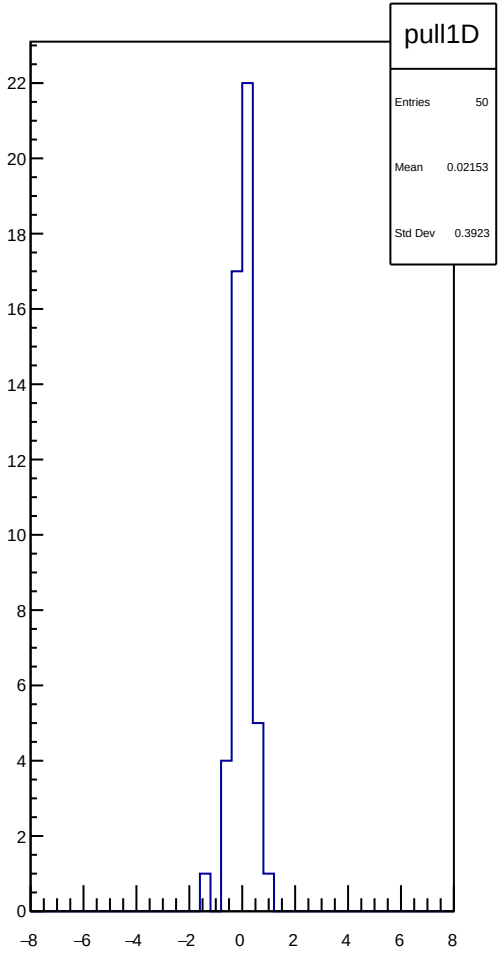

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.9581 / 49
p0 −29.24 ± 7.13
pull
Entries 50
Mean 52.31
Std Dev 7.226

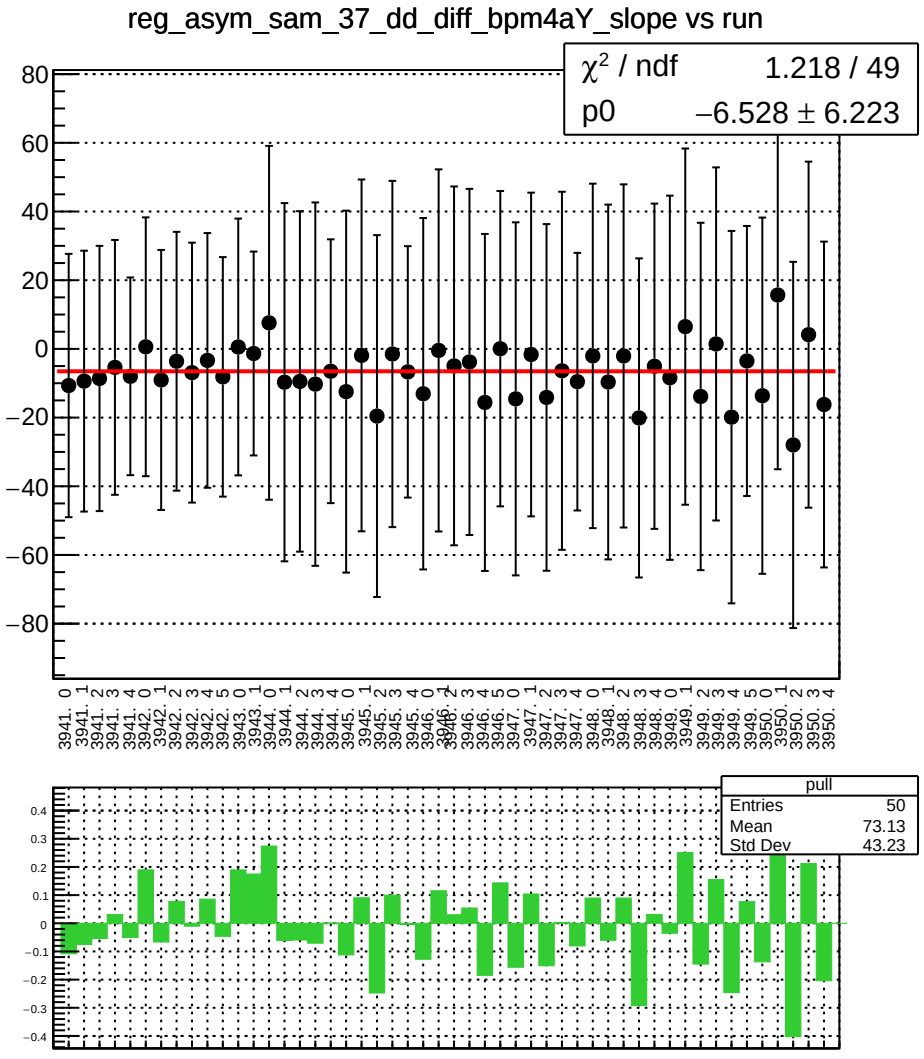

pull1D
Entries 50
Mean 0.004751
Std Dev 0.1383

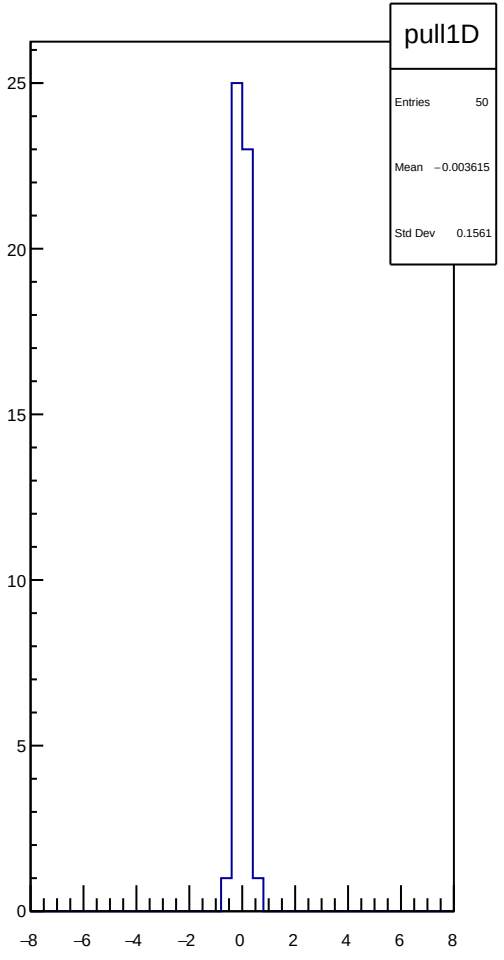

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 1.597 / 49
p0 4.997 ± 1.208
pull
Entries 50
Mean 82.87
Std Dev 59.27

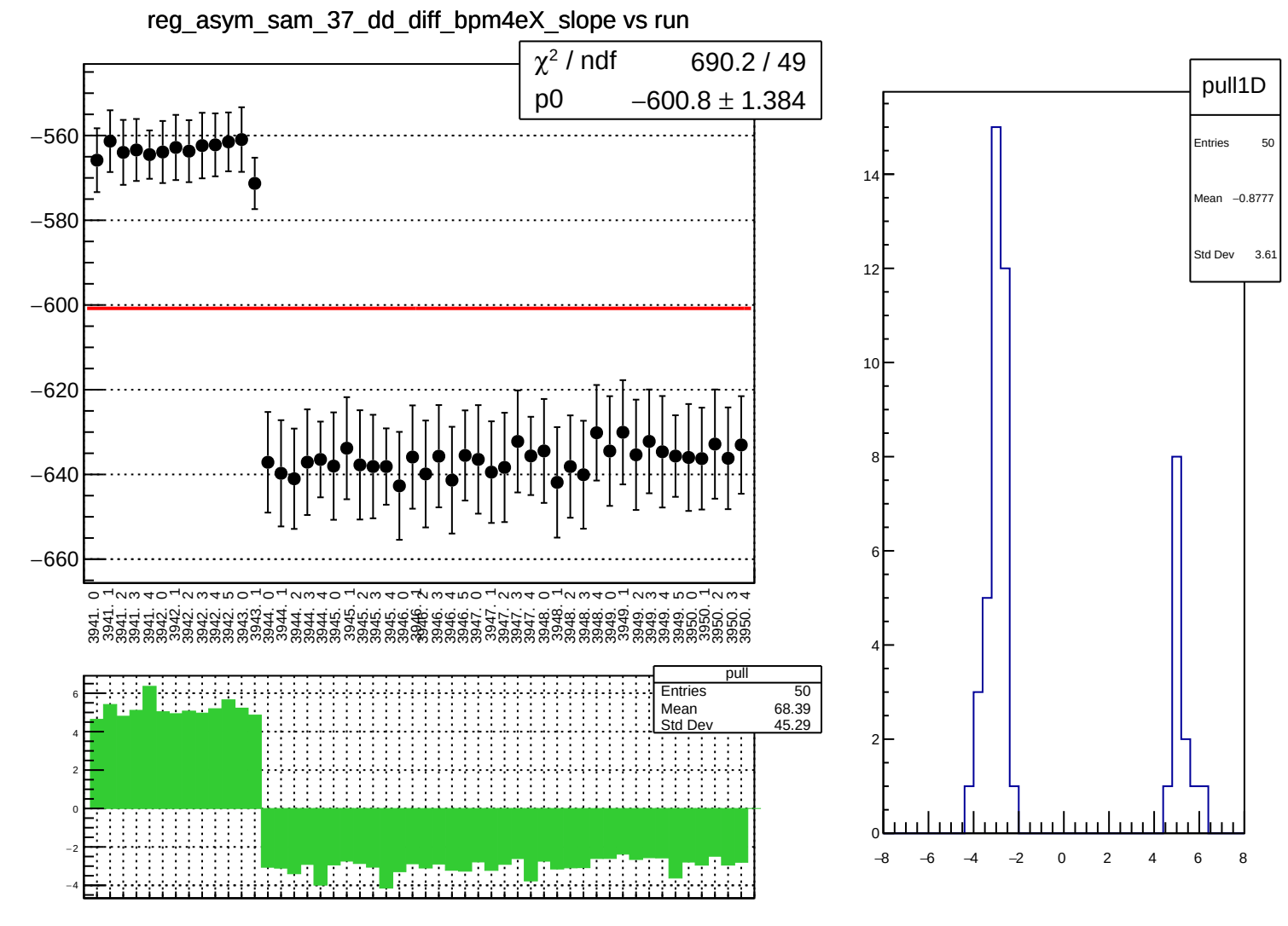

pull1D
Entries 50
Mean 0.02449
Std Dev 0.177

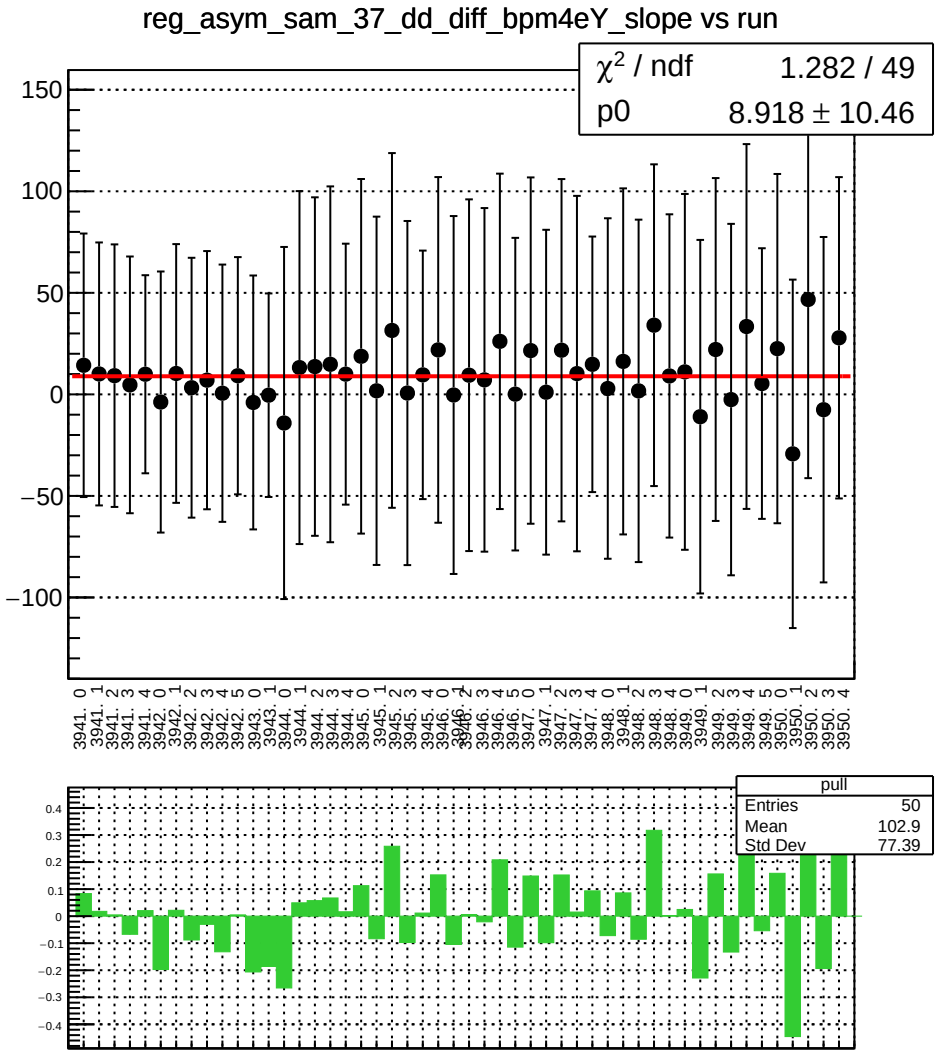

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.717 / 49
p0 102.8 ± 8.649
pull
Entries 50
Mean 69.57
Std Dev 40.85

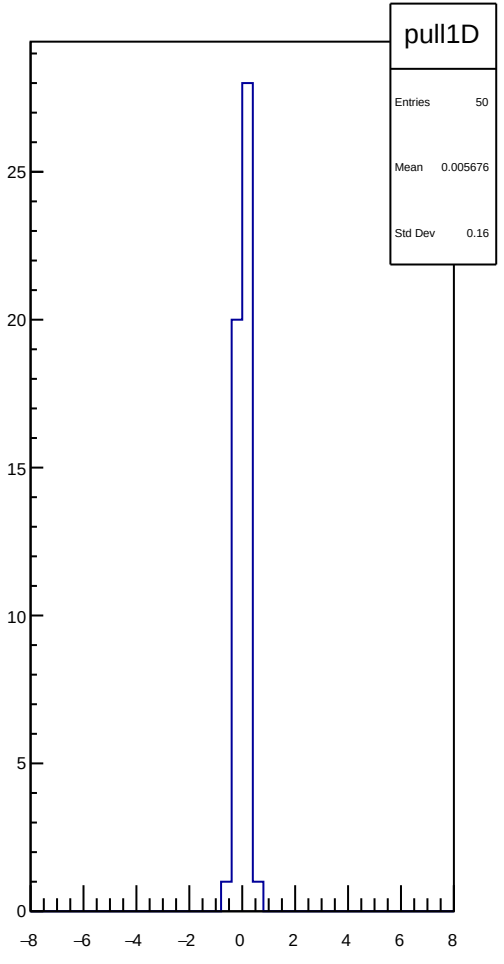

pull1D
Entries 50
Mean 0.02153
Std Dev 0.3923

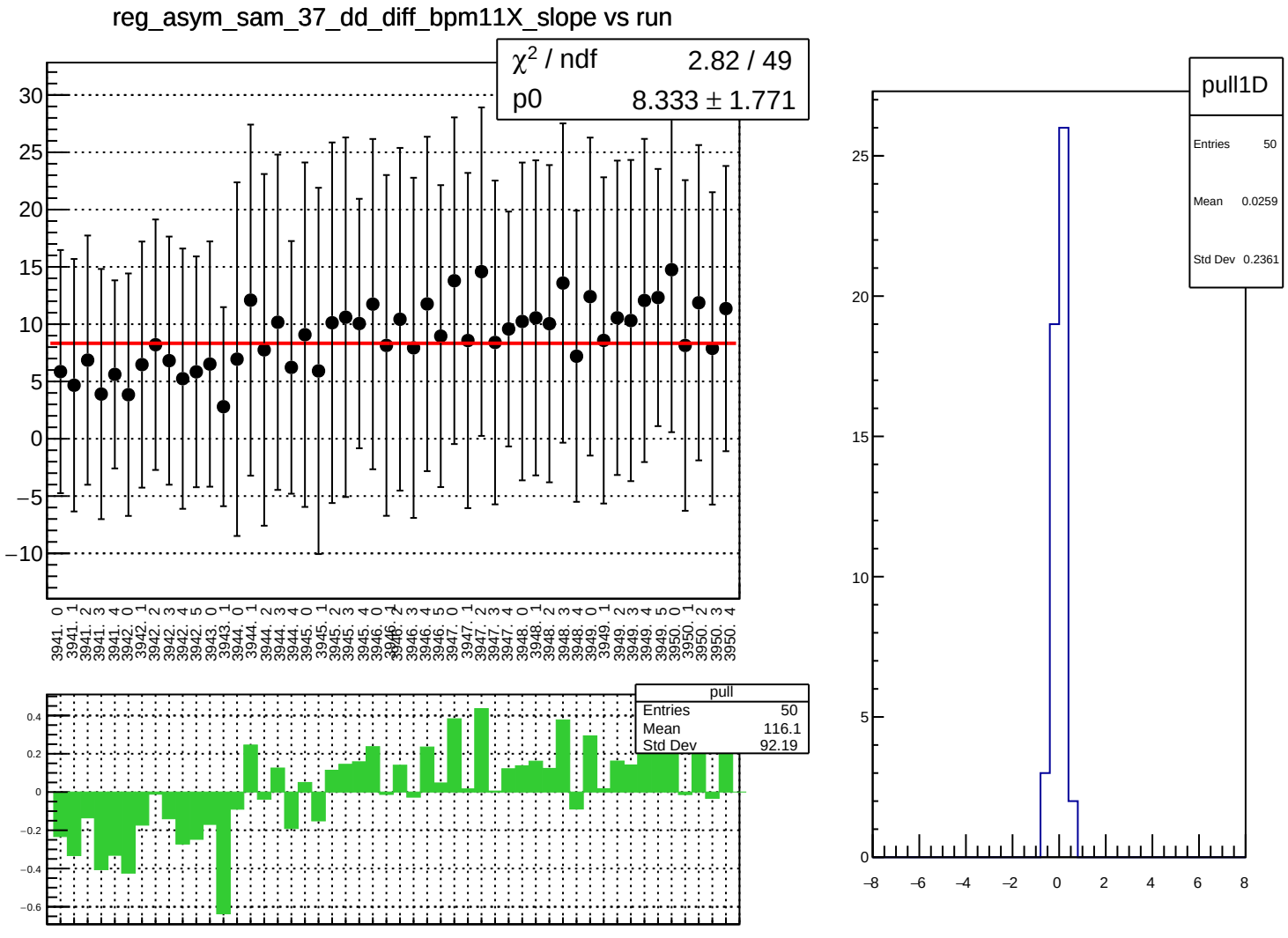

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.218 / 49
p0 −6.528 ± 6.223
pull
Entries 50
Mean 73.13
Std Dev 43.23

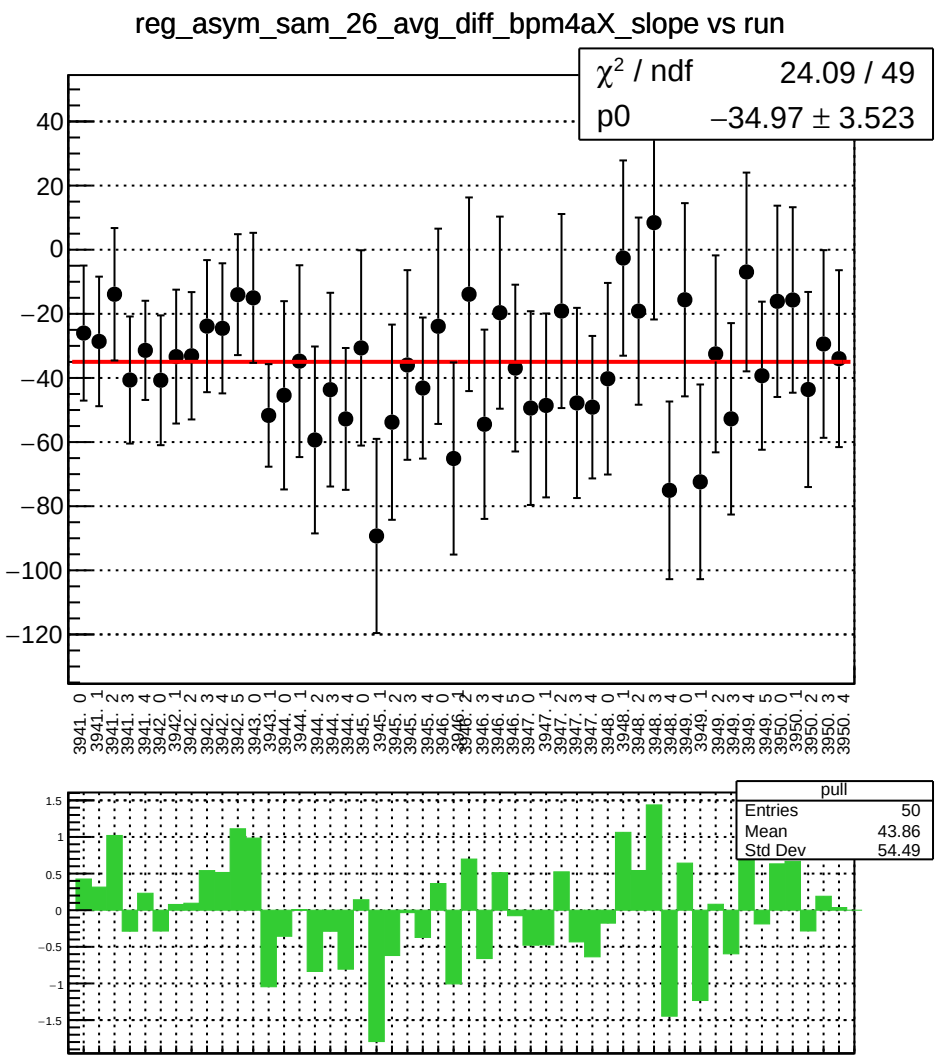

pull1D
Entries 50
Mean −0.003615
Std Dev 0.1561

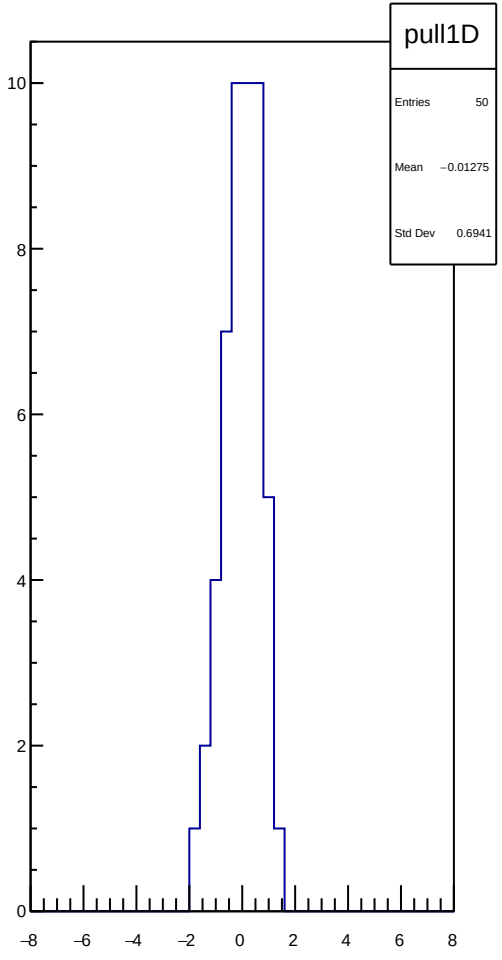

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 690.2 / 49
p0 −600.8 ± 1.384
pull
Entries 50
Mean 68.39
Std Dev 45.29
pull1D
Entries 50
Mean −0.8777
Std Dev 3.61

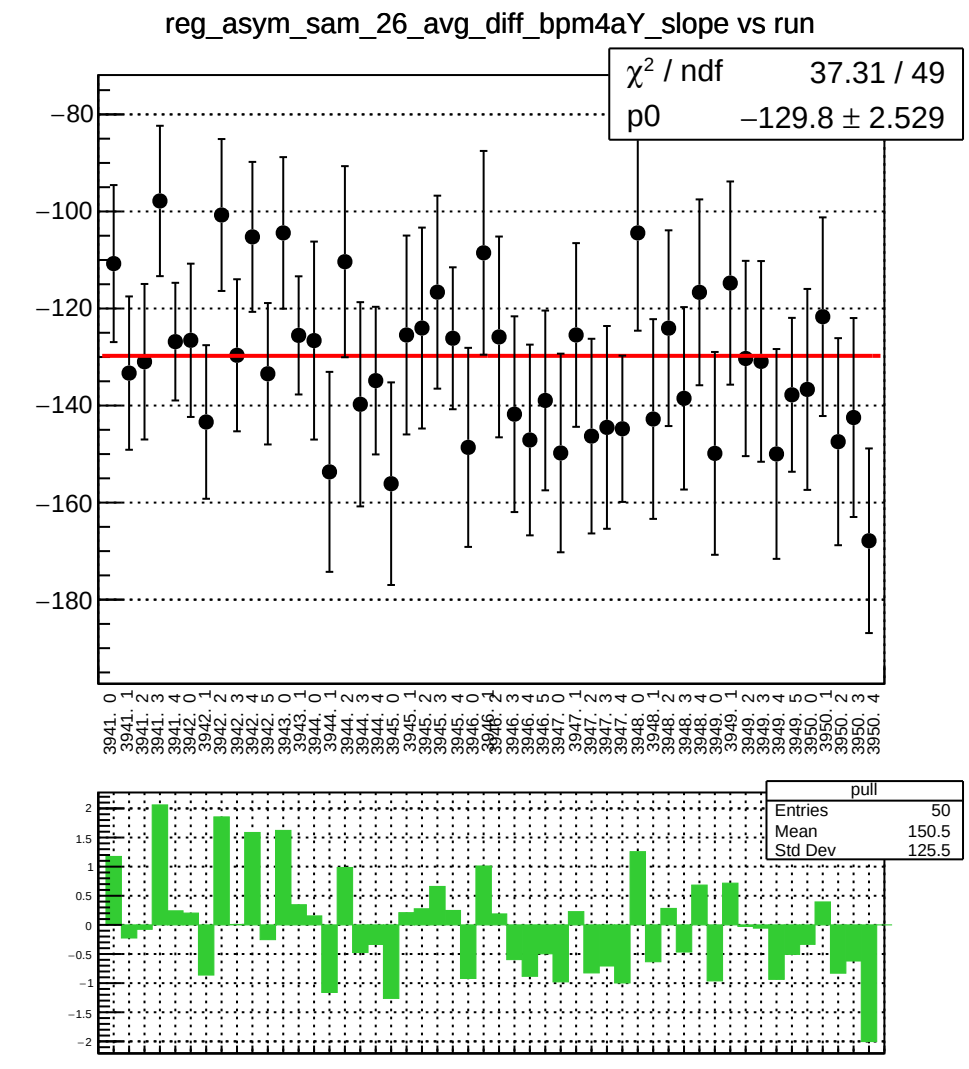

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.282 / 49
p0 8.918 ± 10.46
pull
Entries 50
Mean 102.9
Std Dev 77.39

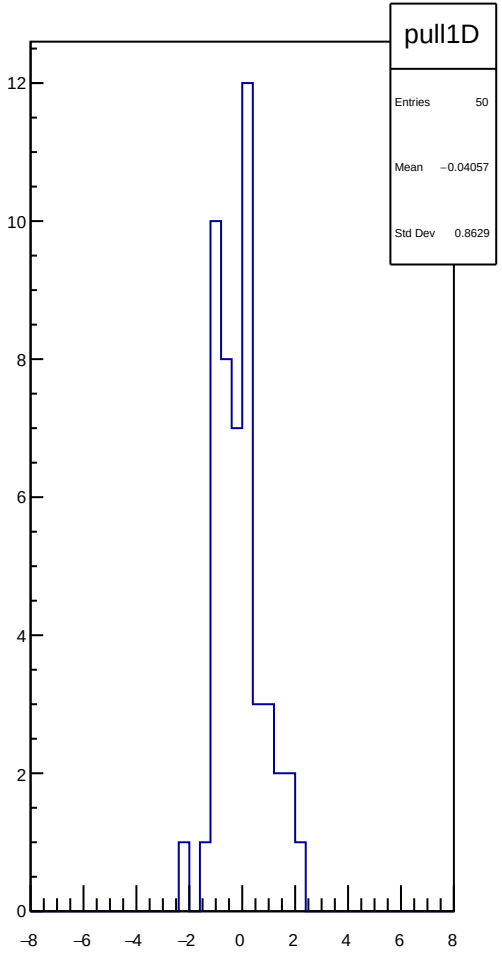

pull1D
Entries 50
Mean 0.005676
Std Dev 0.16

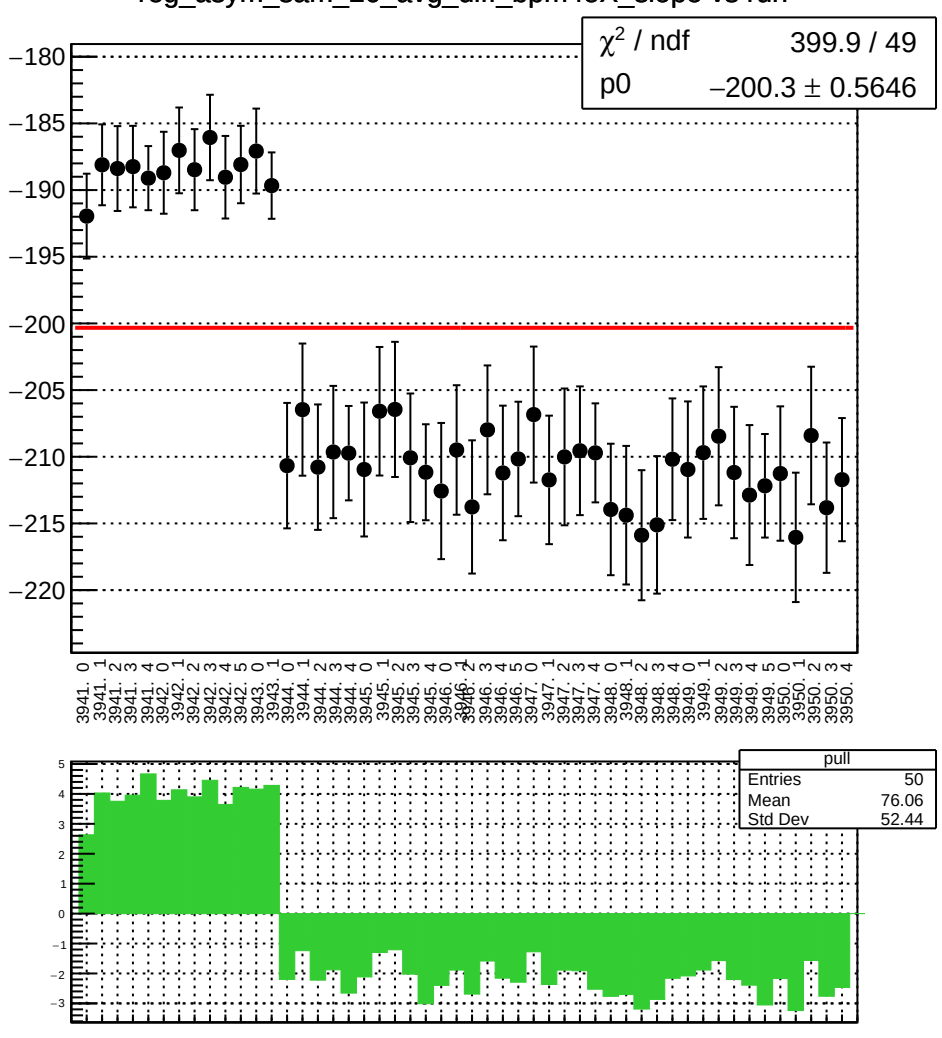

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 2.82 / 49
p0 8.333 ± 1.771
pull
Entries 50
Mean 116.1
Std Dev 92.19
pull1D
Entries 50
Mean 0.0259
Std Dev 0.2361

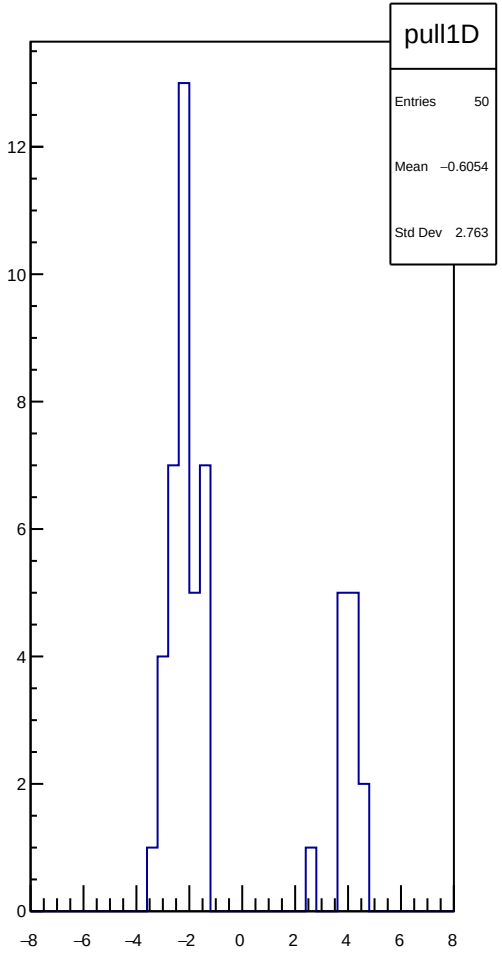

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.09 / 49
p0 −34.97 ± 3.523
pull
Entries 50
Mean 43.86
Std Dev 54.49

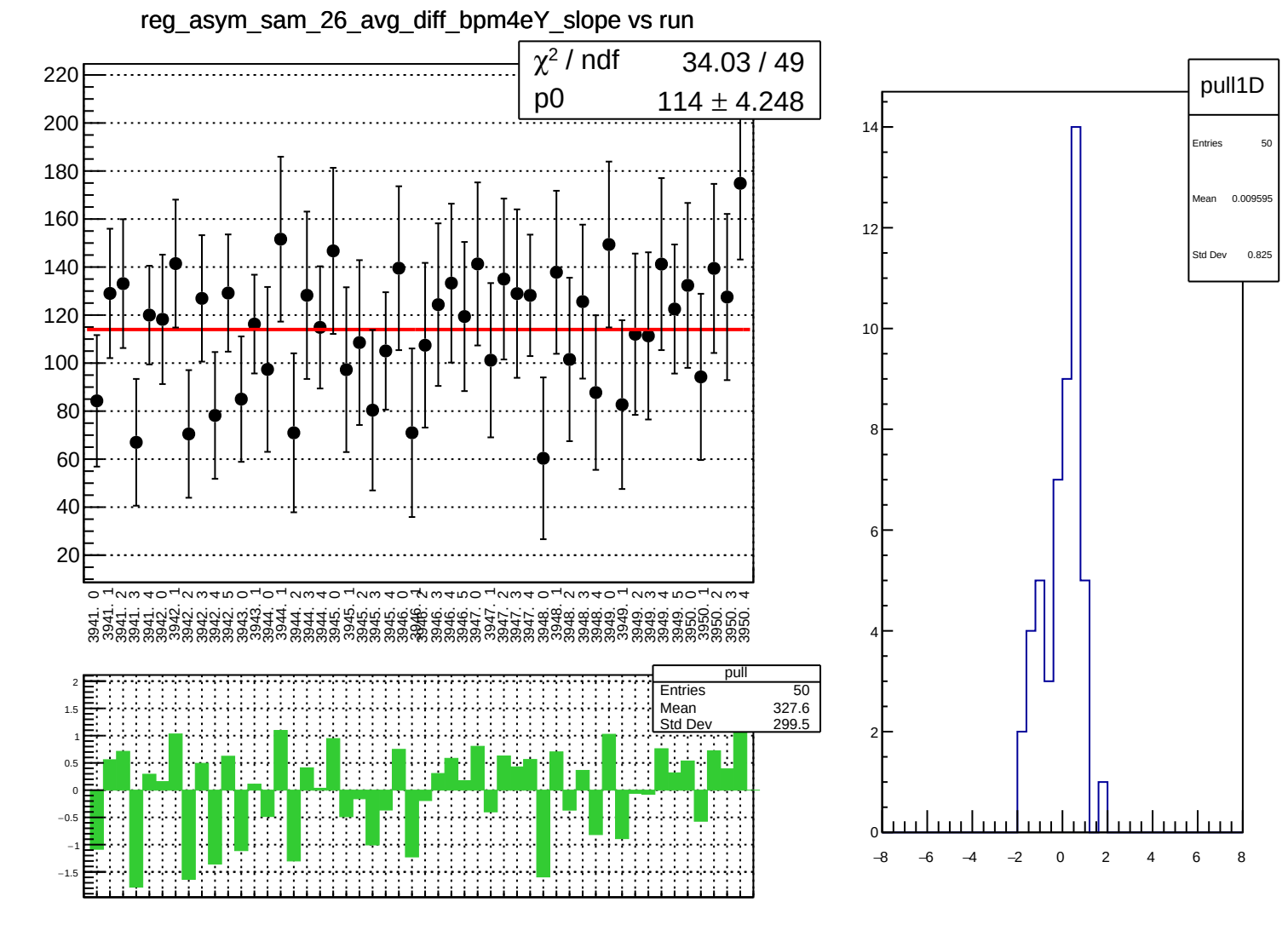

pull1D
Entries 50
Mean −0.01275
Std Dev 0.6941

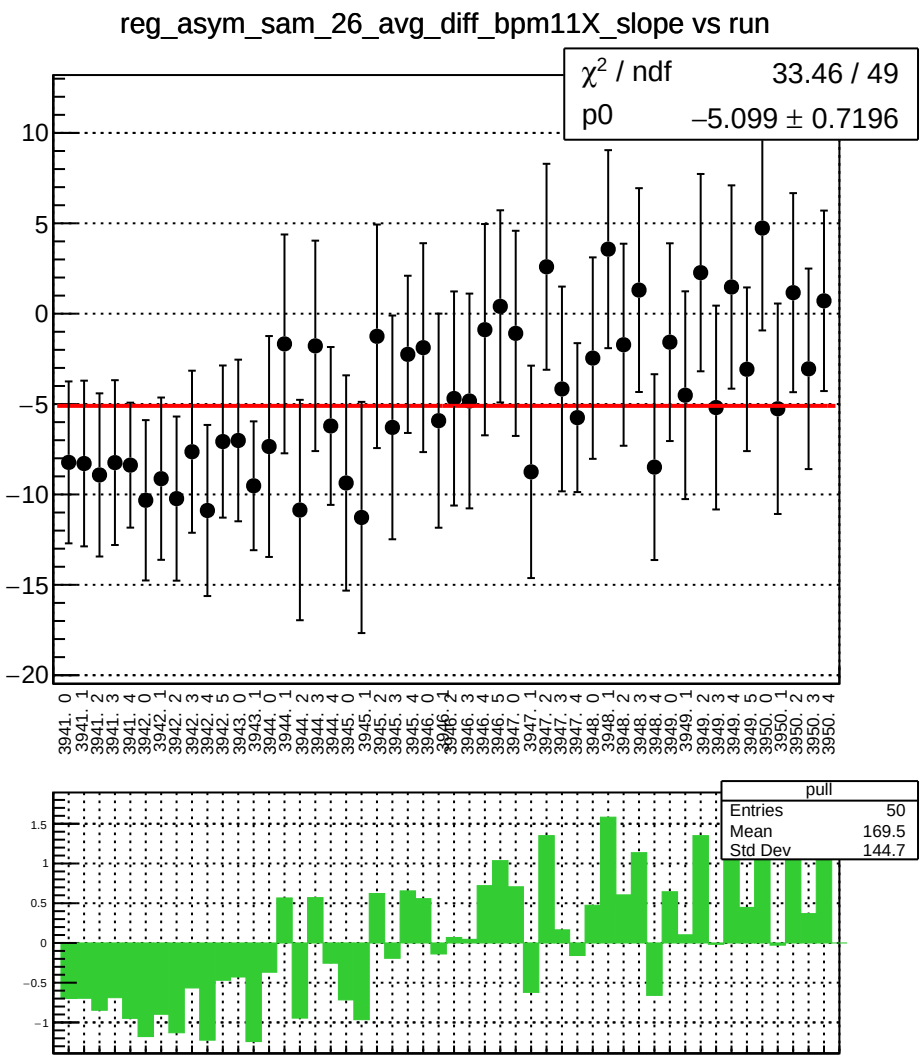

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.31 / 49
p0 −129.8 ± 2.529
pull
Entries 50
Mean 150.5
Std Dev 125.5

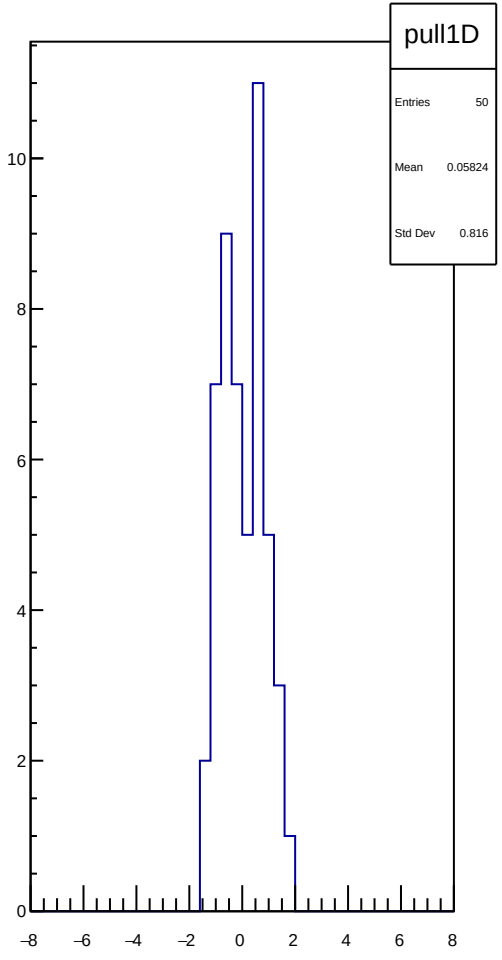

pull1D
Entries 50
Mean −0.04057
Std Dev 0.8629

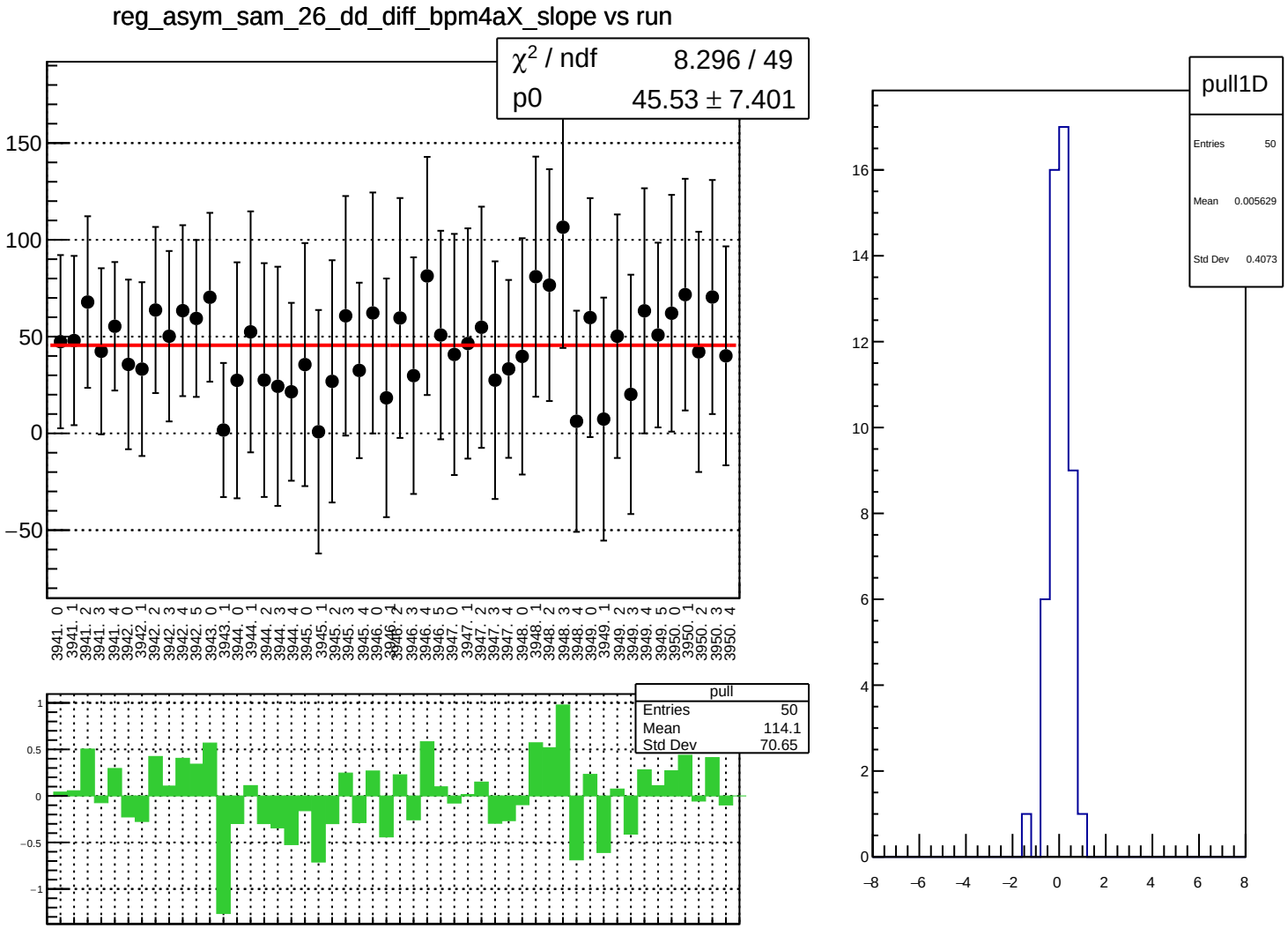

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 399.9 / 49
p0 −200.3 ± 0.5646
pull
Entries 50
Mean 76.06
Std Dev 52.44

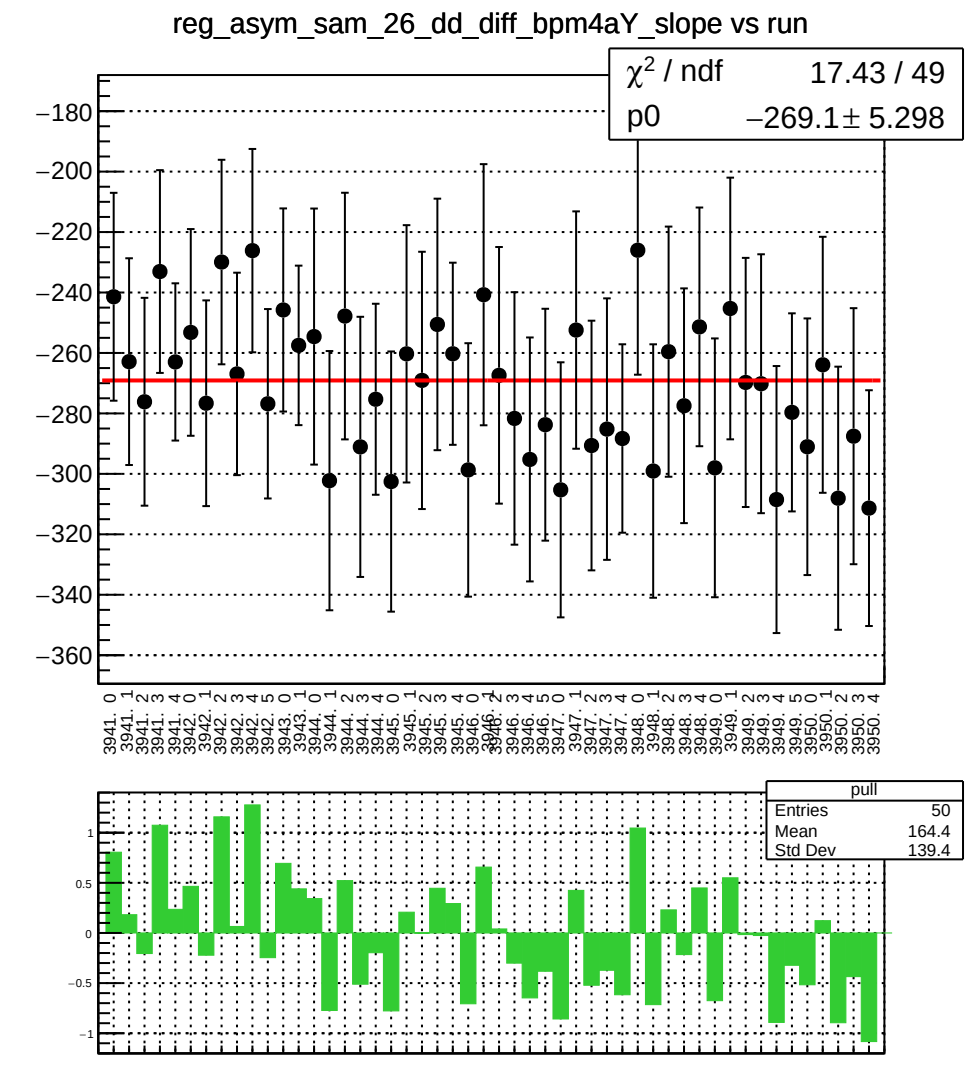

pull1D
Entries 50
Mean −0.6054
Std Dev 2.763

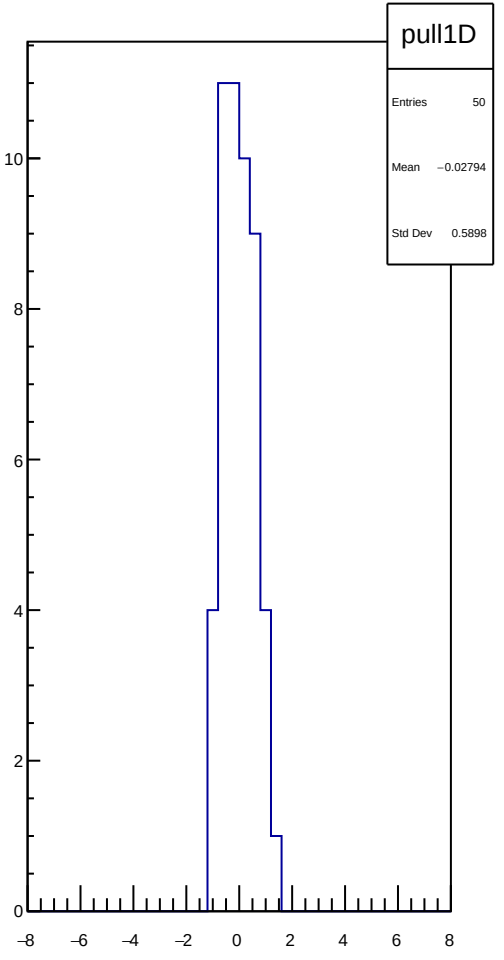

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.03 / 49
p0 114 ± 4.248
pull
Entries 50
Mean 327.6
Std Dev 299.5
pull1D
Entries 50
Mean 0.009595
Std Dev 0.825

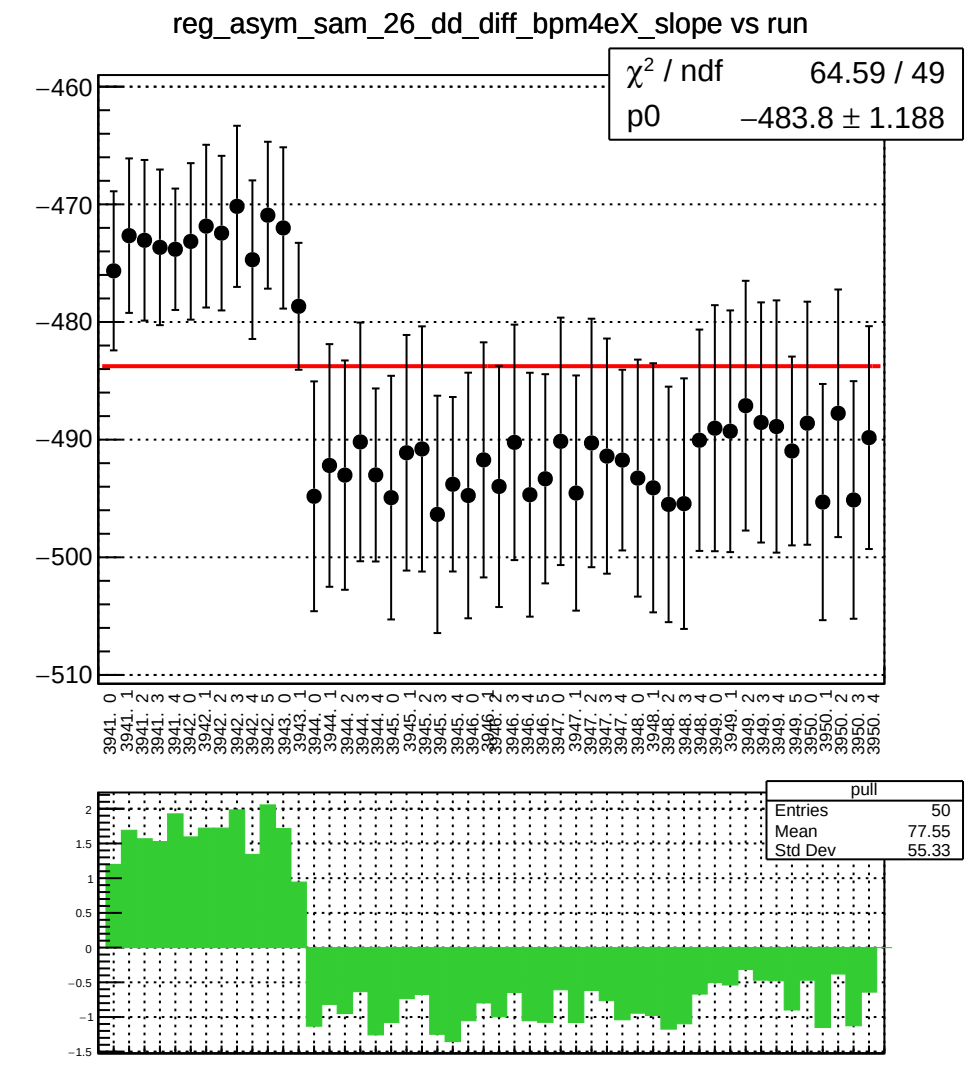

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 33.46 / 49
p0 −5.099 ± 0.7196
pull
Entries 50
Mean 169.5
Std Dev 144.7

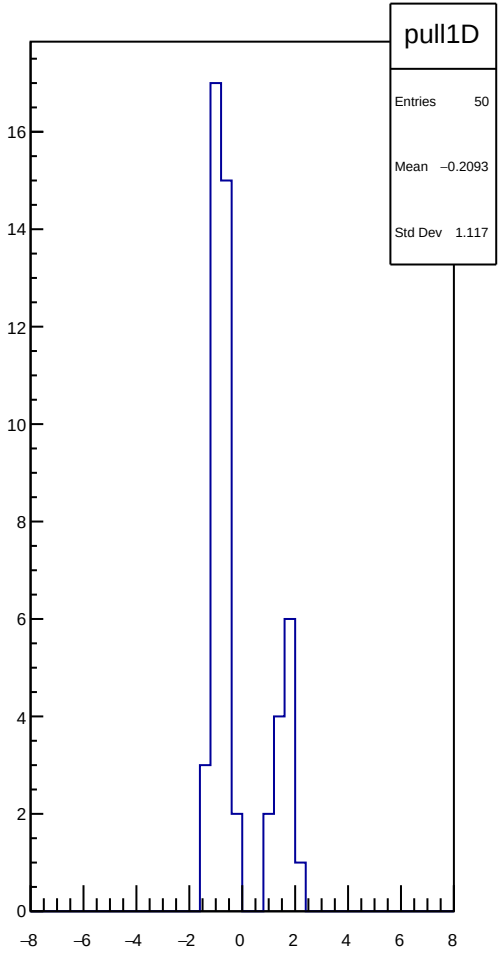

pull1D
Entries 50
Mean 0.05824
Std Dev 0.816

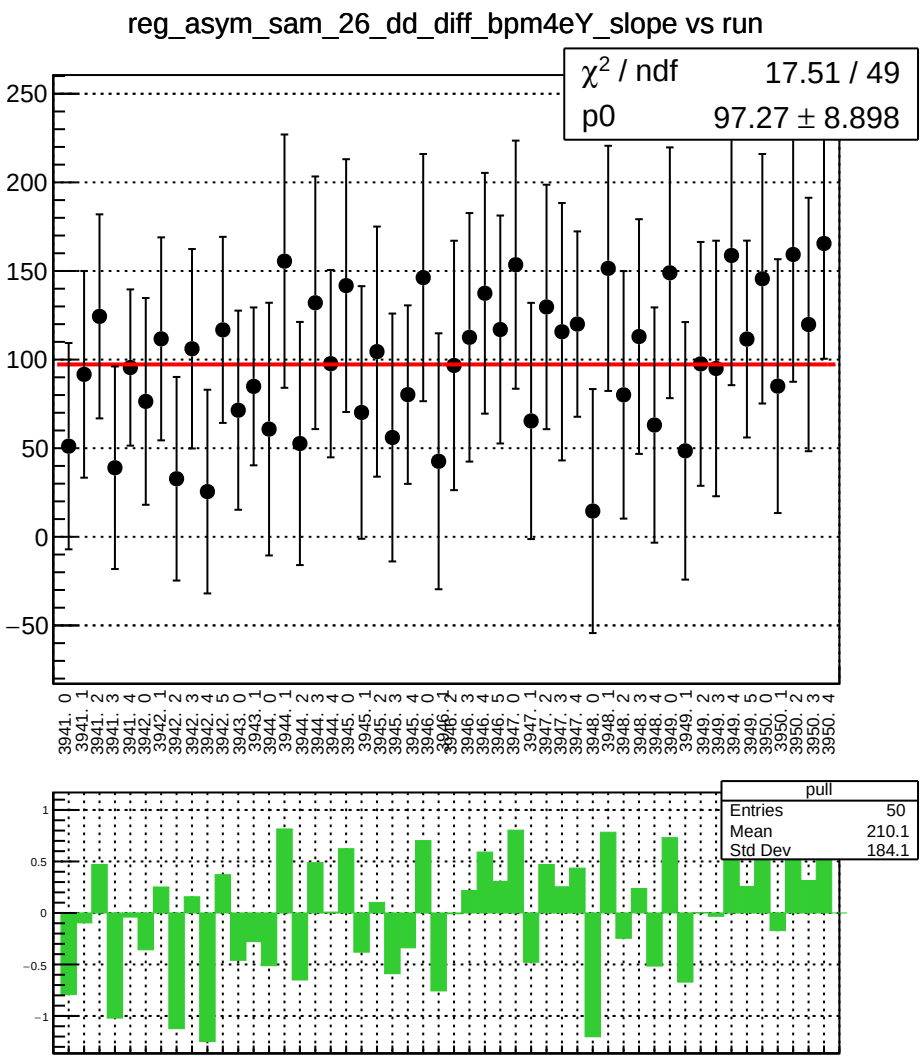

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.296 / 49
p0 45.53 ± 7.401
150
100
50
0
−50
pull
Entries 50
Mean 114.1
Std Dev 70.65
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean 0.005629
Std Dev 0.4073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

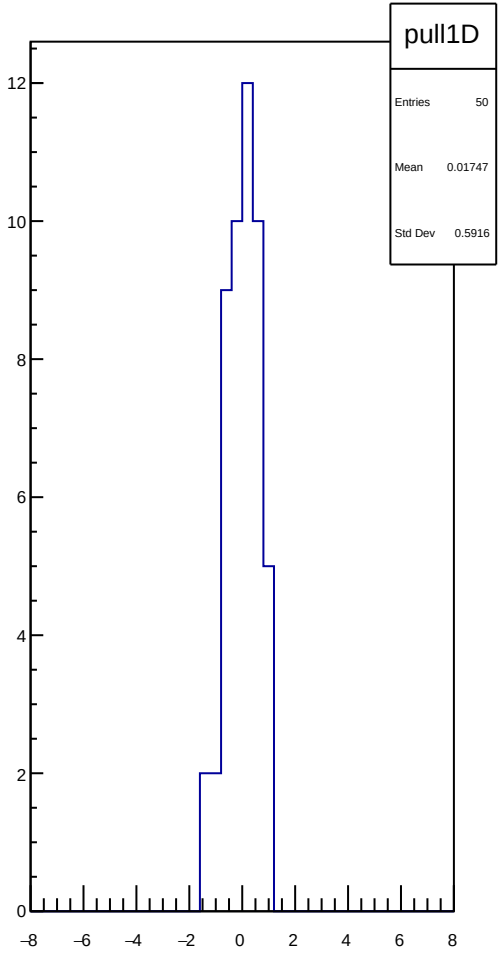

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.43 / 49
p0 −269.1 ± 5.298
pull
Entries 50
Mean 164.4
Std Dev 139.4

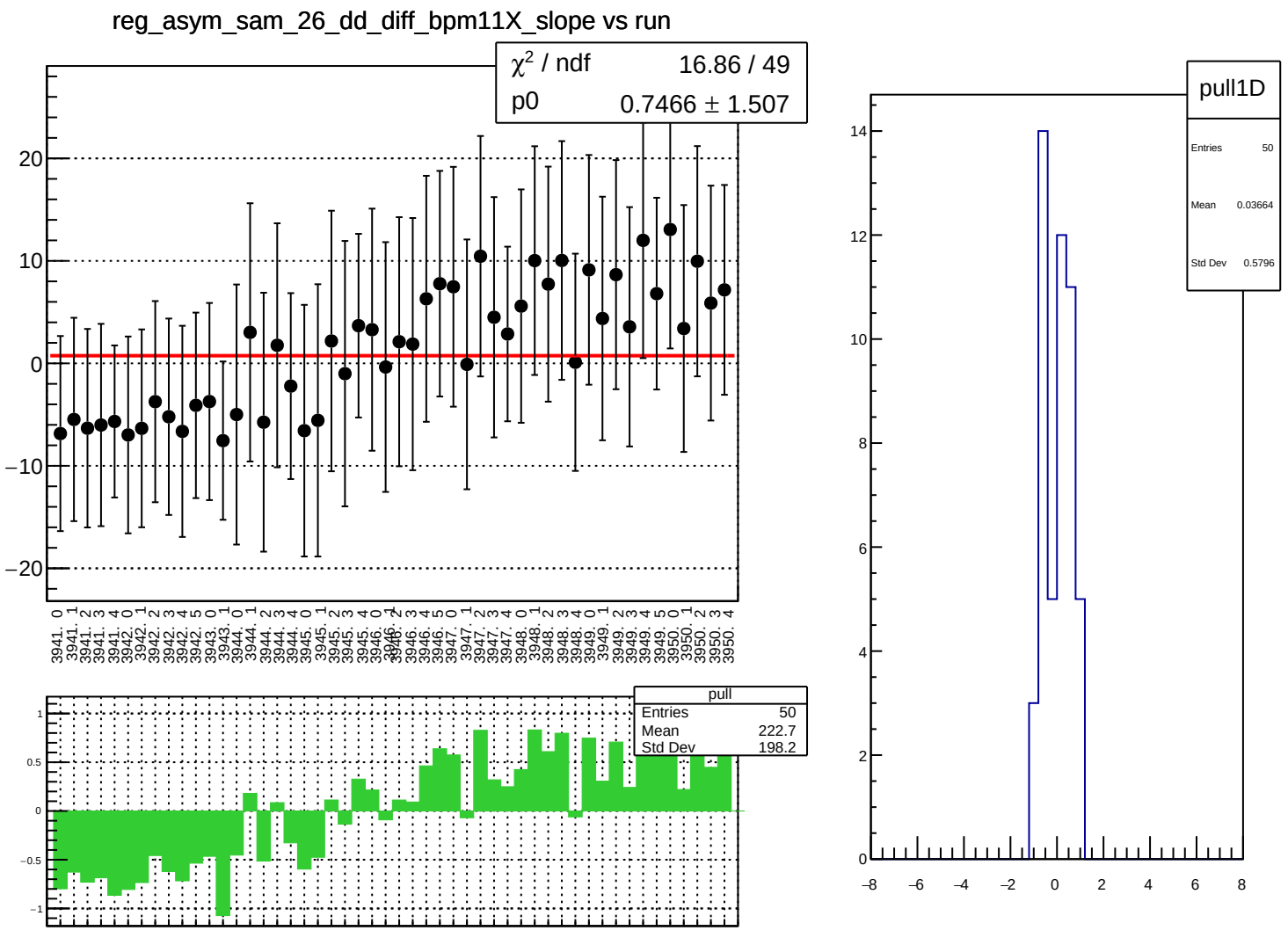

pull1D
Entries 50
Mean −0.02794
Std Dev 0.5898

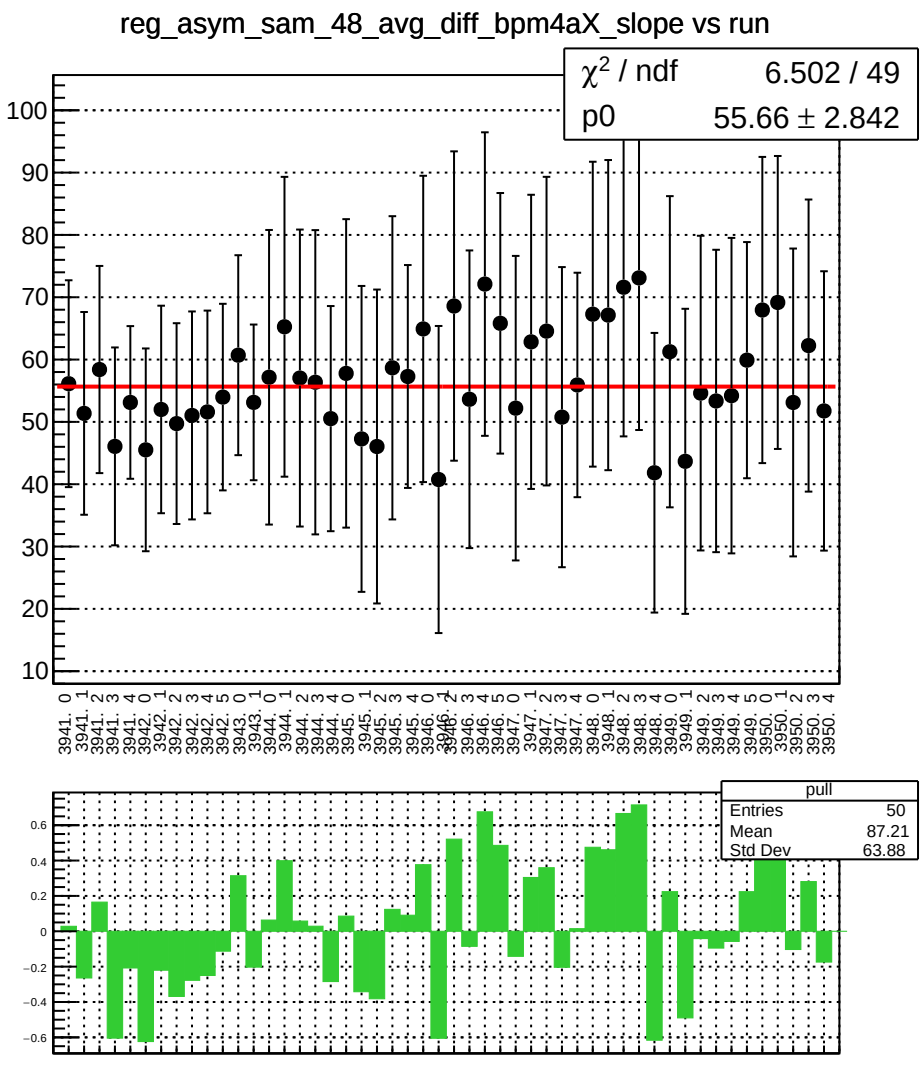

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.59 / 49
p0 −483.8 ± 1.188
pull
Entries 50
Mean 77.55
Std Dev 55.33

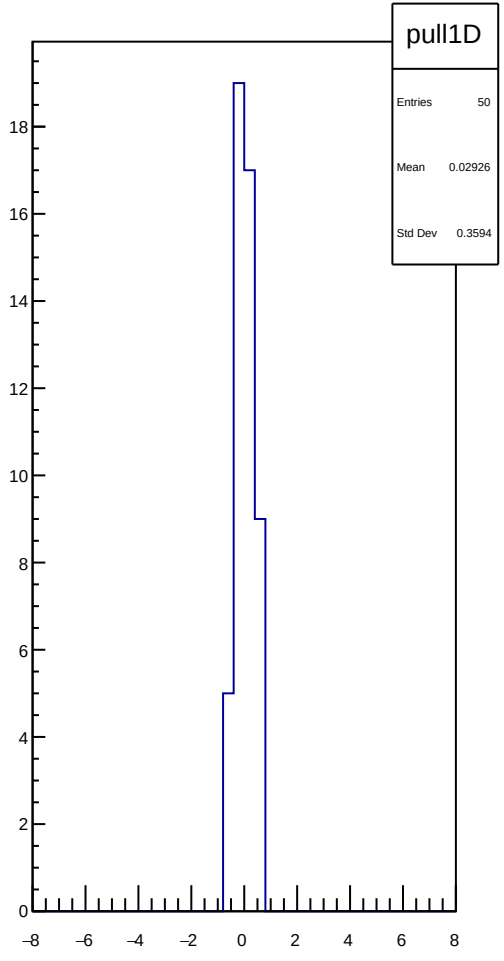

pull1D
Entries 50
Mean −0.2093
Std Dev 1.117

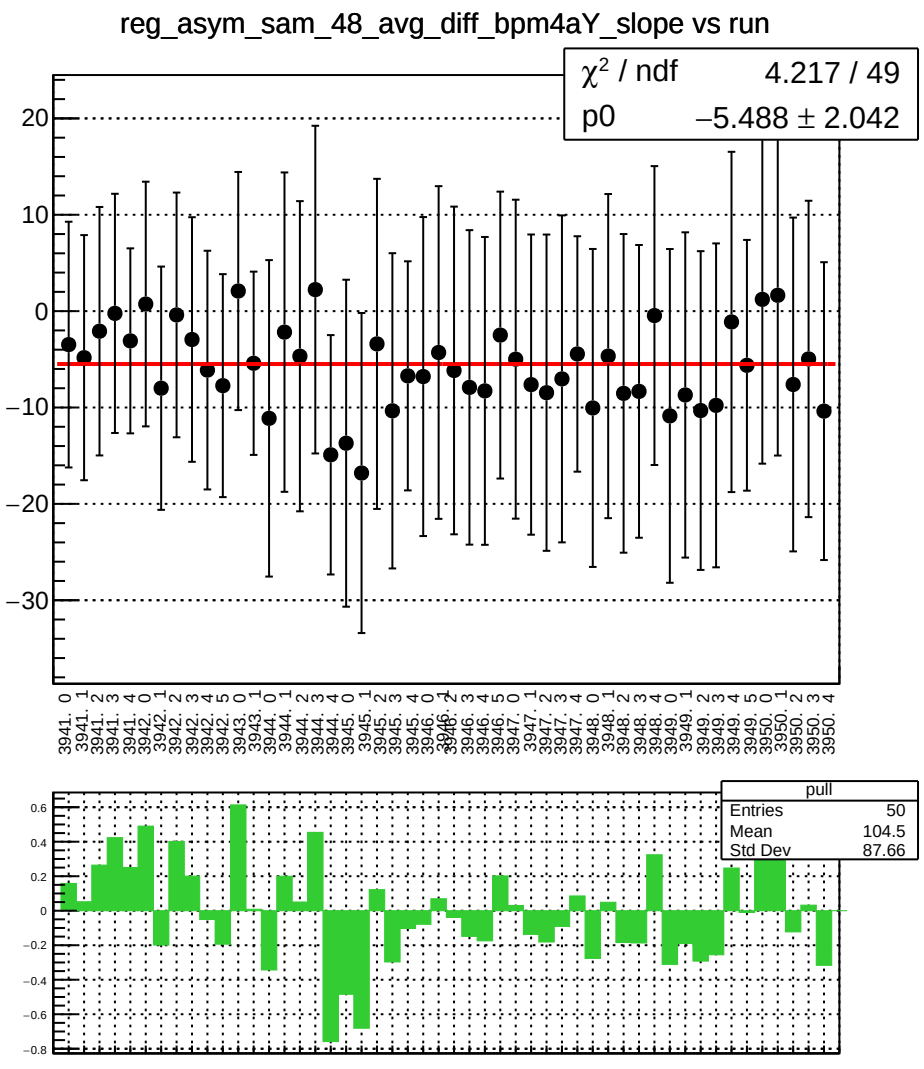

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.51 / 49
p0 97.27 ± 8.898
pull
Entries 50
Mean 210.1
Std Dev 184.1

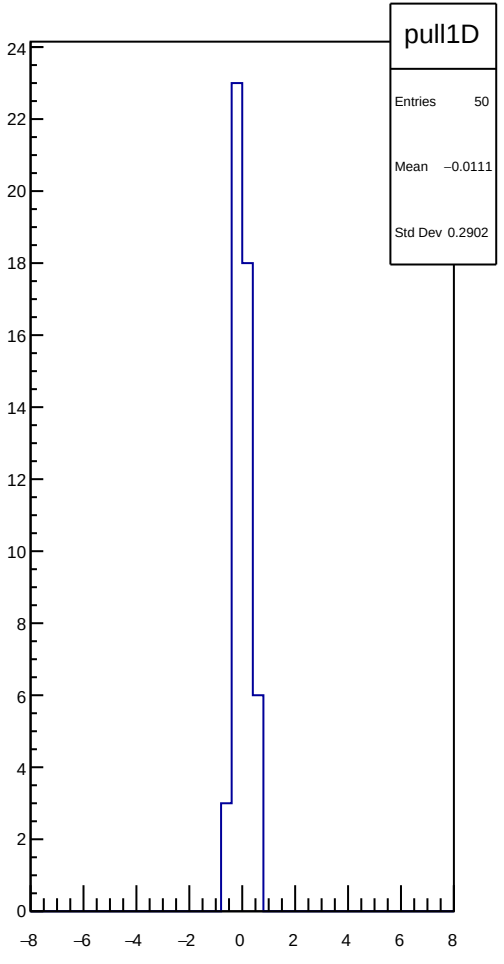

pull1D
Entries 50
Mean 0.01747
Std Dev 0.5916

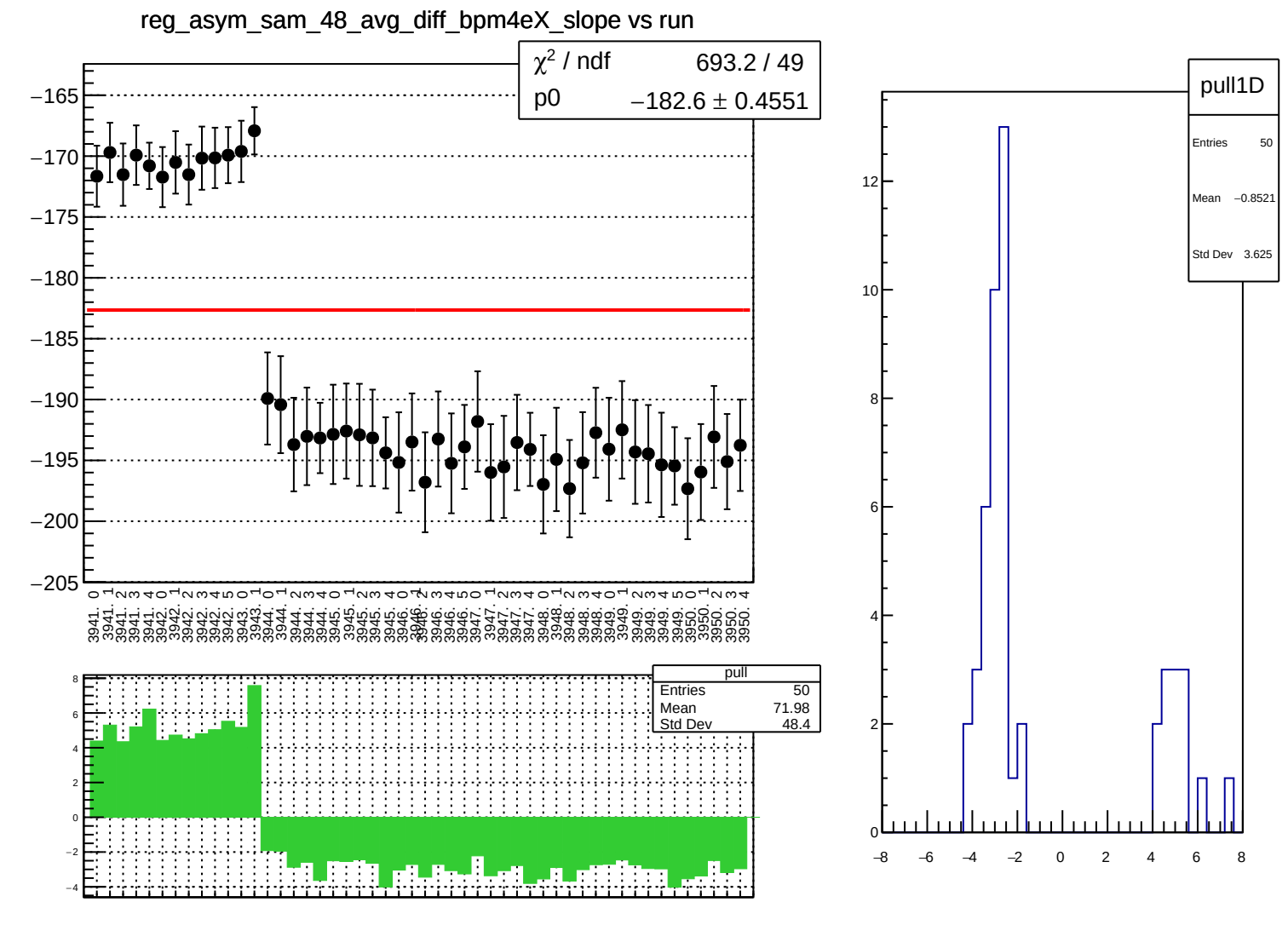

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 16.86 / 49
p0 0.7466 ± 1.507
pull
Entries 50
Mean 222.7
Std Dev 198.2
pull1D
Entries 50
Mean 0.03664
Std Dev 0.5796

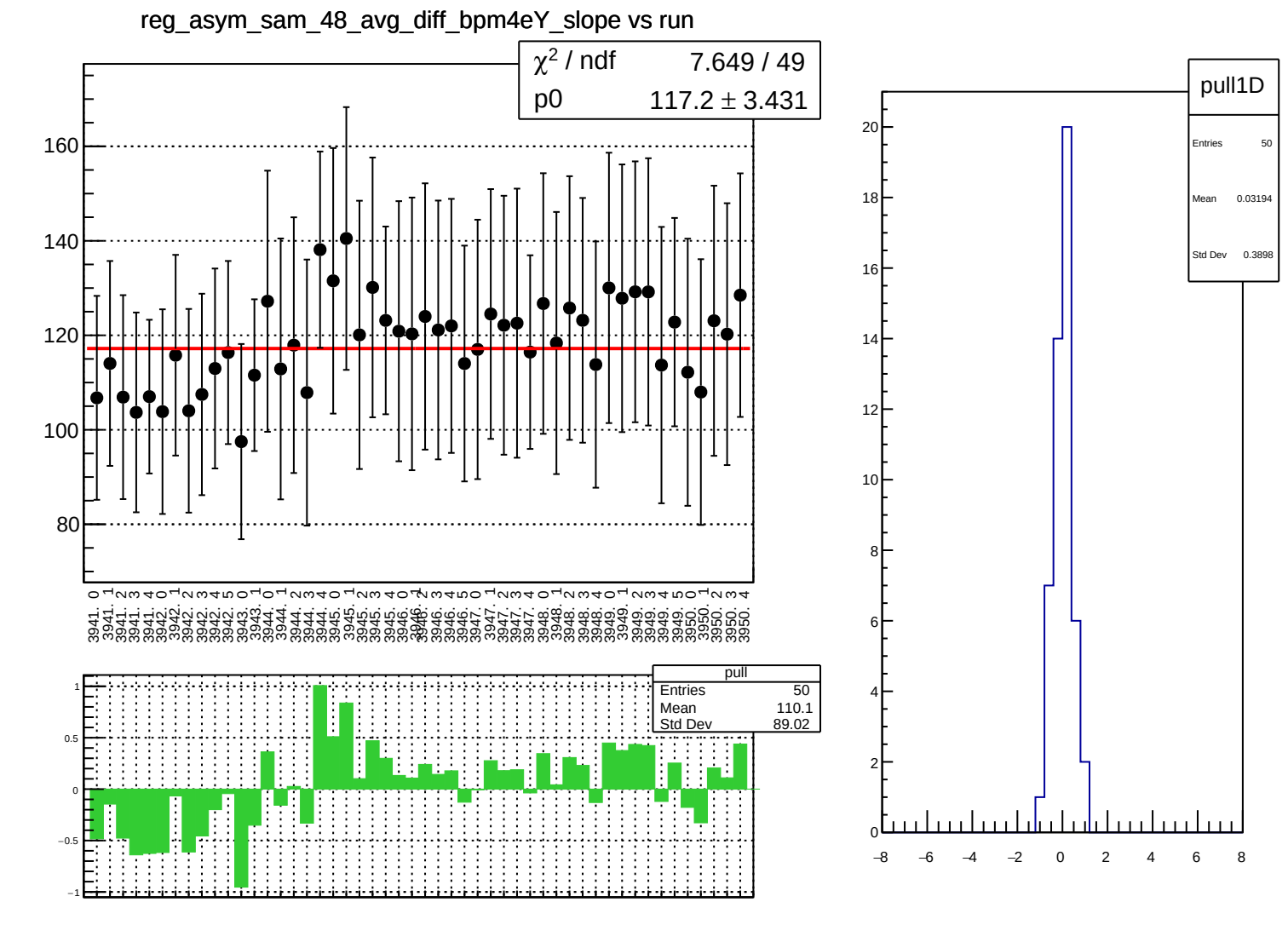

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.502 / 49
p0 55.66 ± 2.842
pull
Entries 50
Mean 87.21
Std Dev 63.88

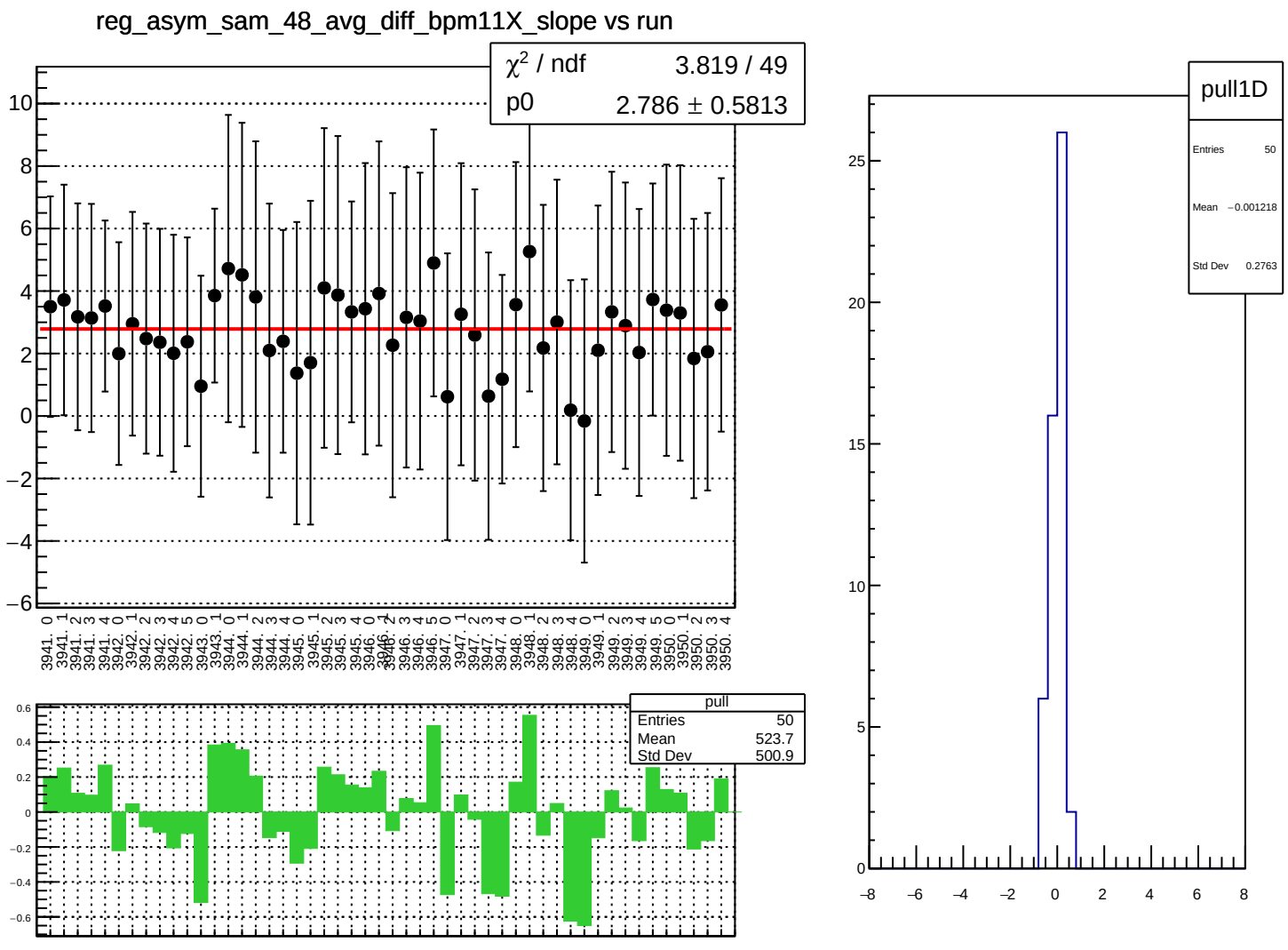

pull1D
Entries 50
Mean 0.02926
Std Dev 0.3594

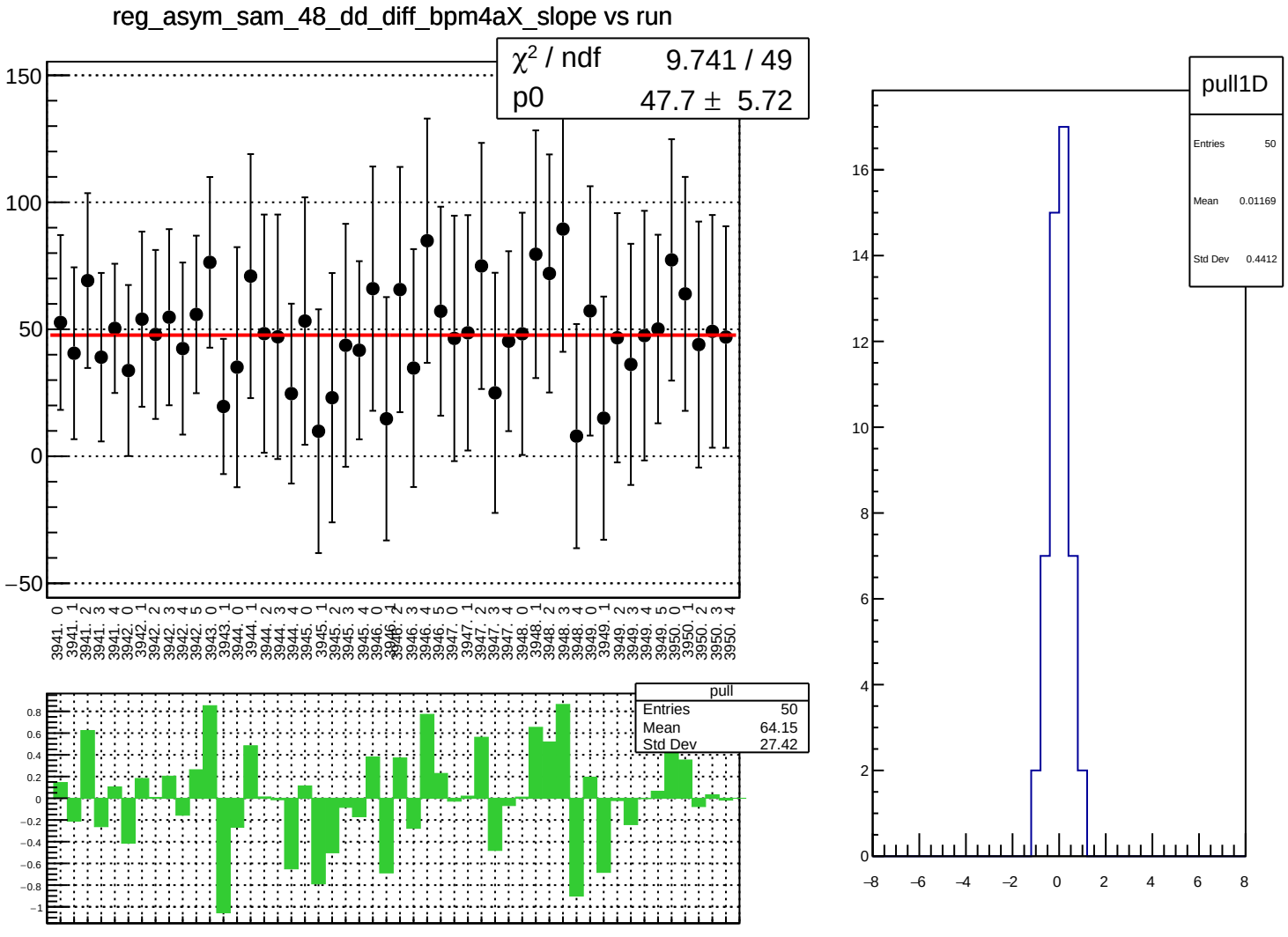

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.217 / 49
p0 −5.488 ± 2.042
pull
Entries 50
Mean 104.5
Std Dev 87.66

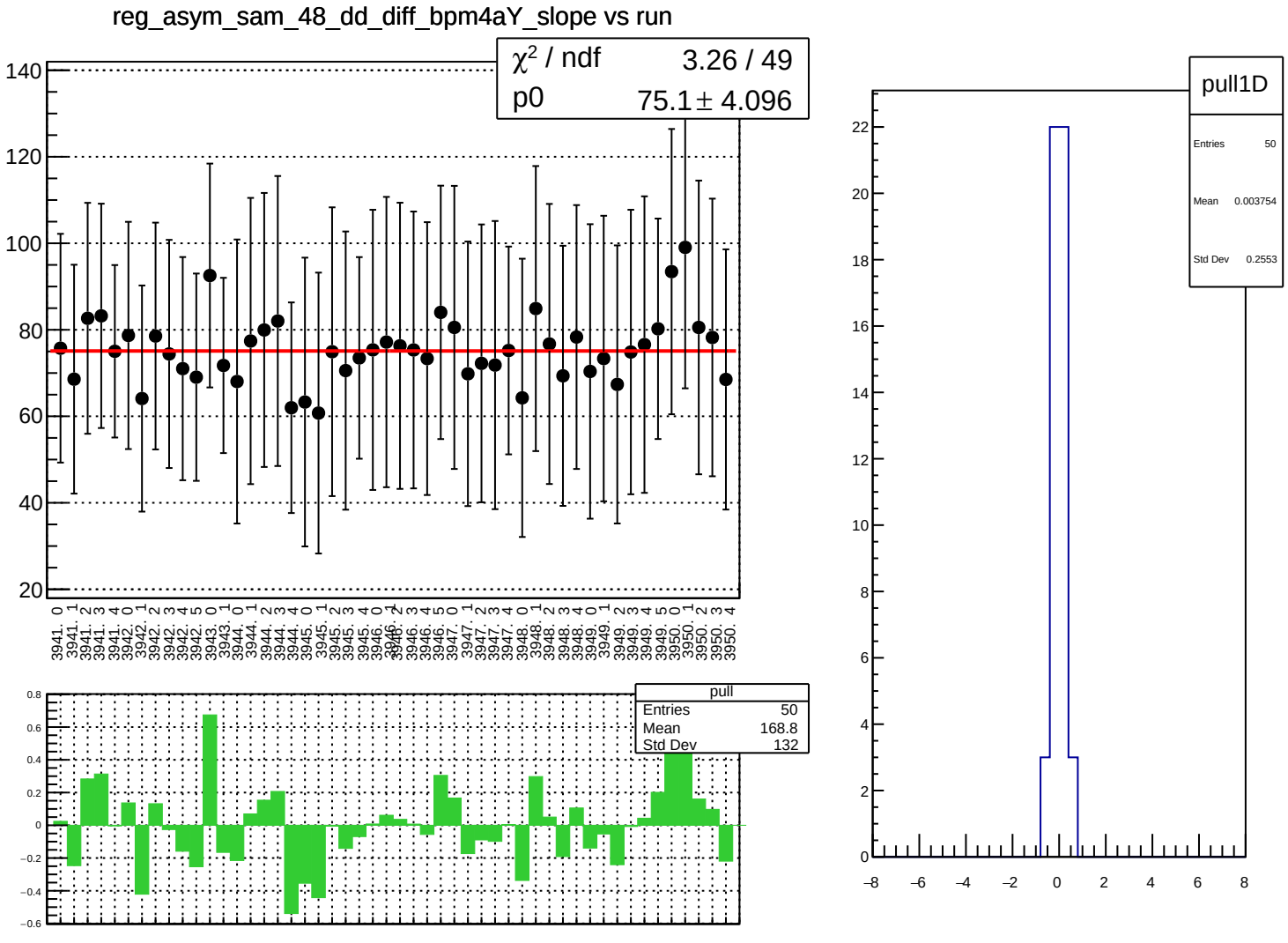

pull1D
Entries 50
Mean −0.0111
Std Dev 0.2902

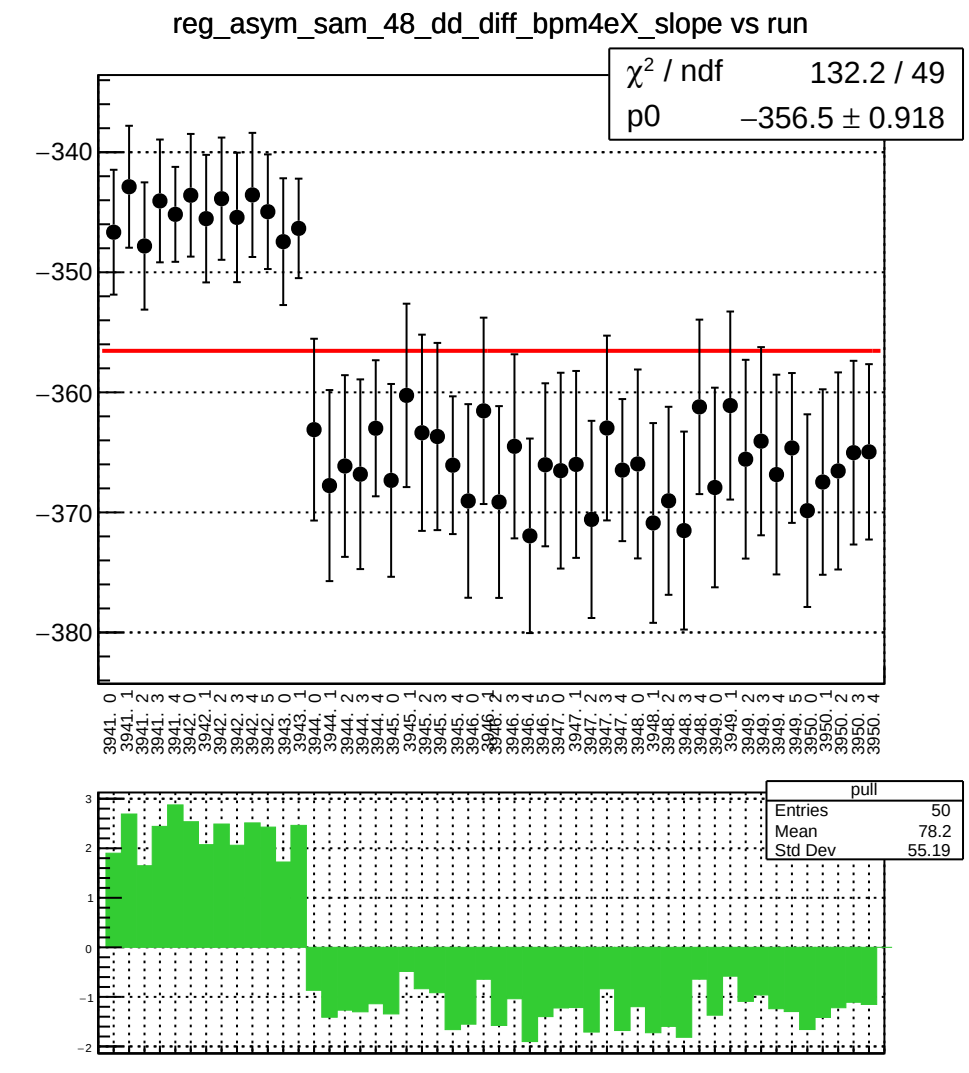

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 693.2 / 49
p0 −182.6 ± 0.4551
pull
Entries 50
Mean 71.98
Std Dev 48.4
pull1D
Entries 50
Mean −0.8521
Std Dev 3.625

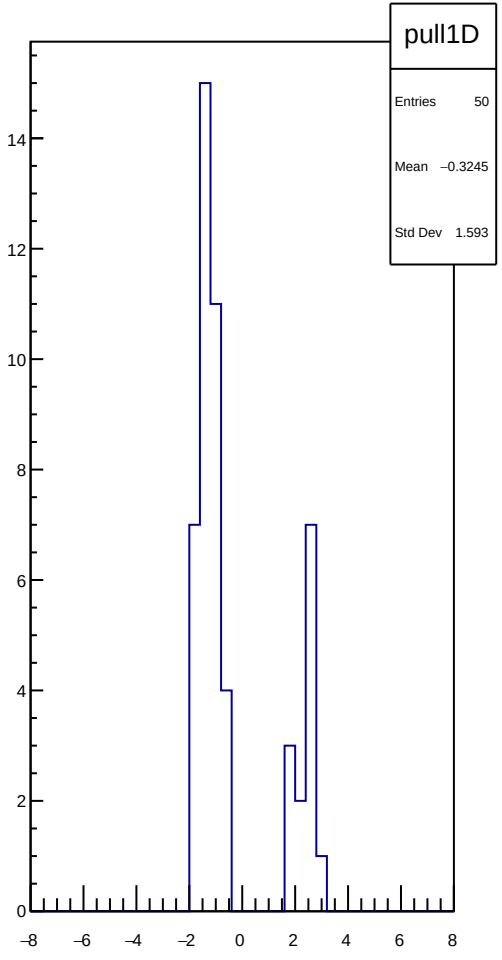

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.649 / 49
p0 117.2 ± 3.431
pull
Entries 50
Mean 110.1
Std Dev 89.02
pull1D
Entries 50
Mean 0.03194
Std Dev 0.3898

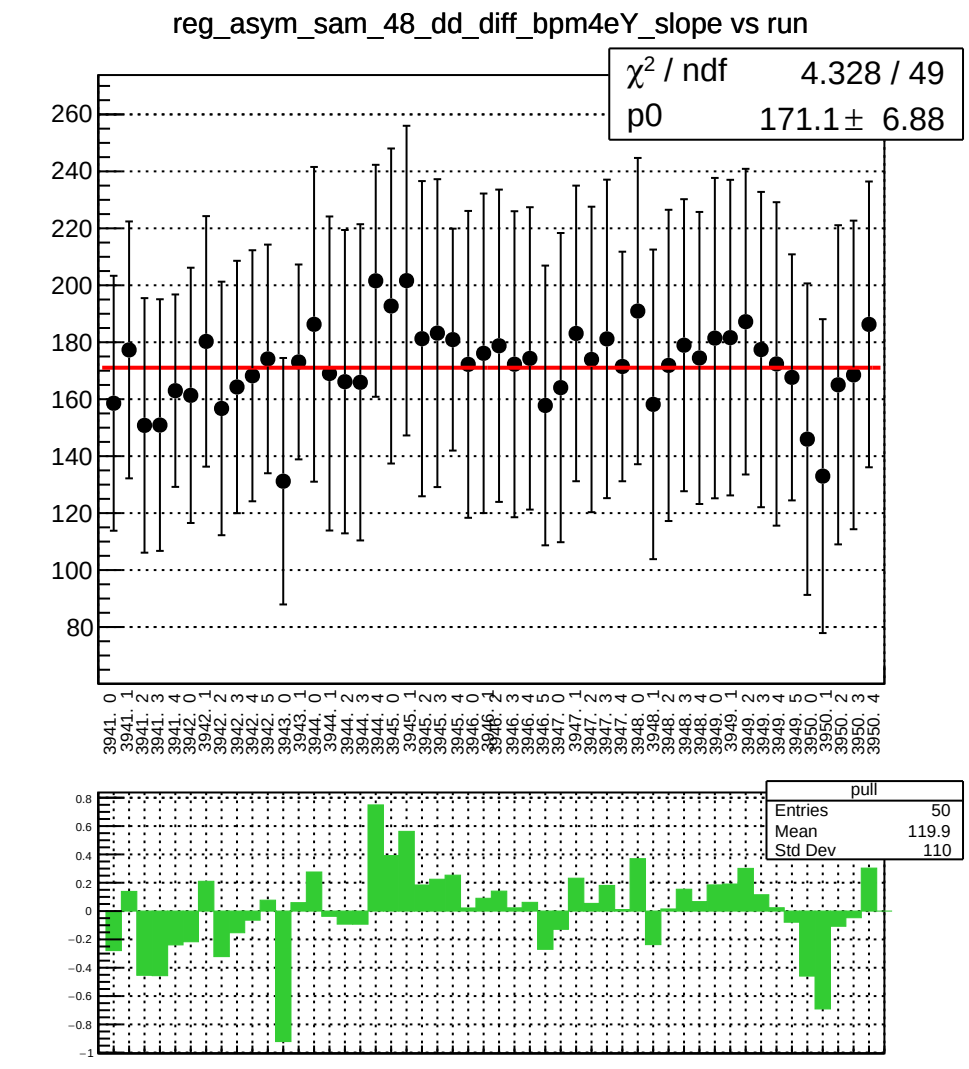

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 3.819 / 49
p0 2.786 ± 0.5813
pull
Entries 50
Mean 523.7
Std Dev 500.9
pull1D
Entries 50
Mean −0.001218
Std Dev 0.2763

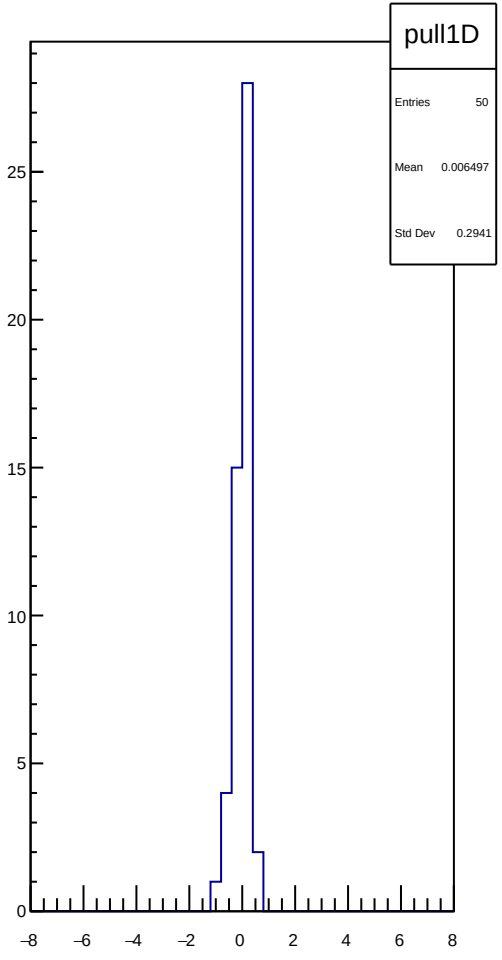

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.741 / 49
p0 47.7 ± 5.72
150
100
50
0
−50
pull
Entries 50
Mean 64.15
Std Dev 27.42
pull1D
Entries 50
Mean 0.01169
Std Dev 0.4412

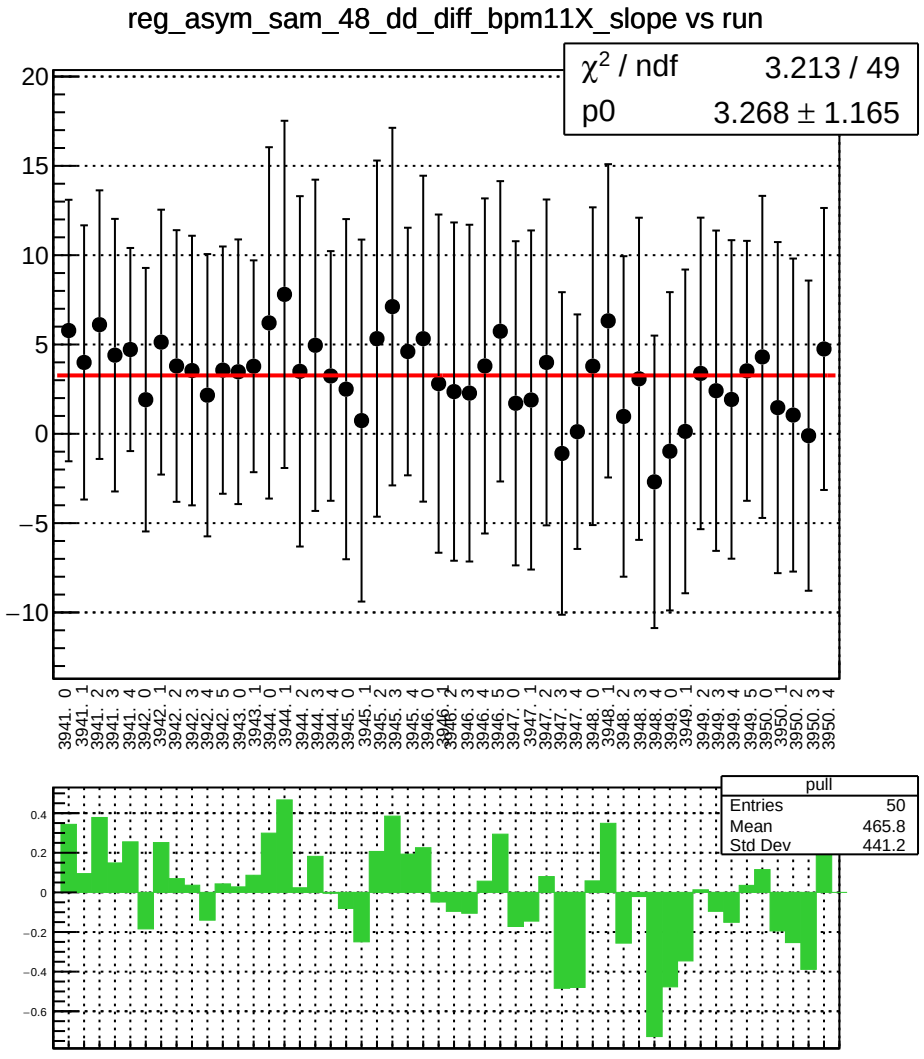

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.26 / 49
p0 75.1 ± 4.096
pull
Entries 50
Mean 168.8
Std Dev 132
pull1D
Entries 50
Mean 0.003754
Std Dev 0.2553

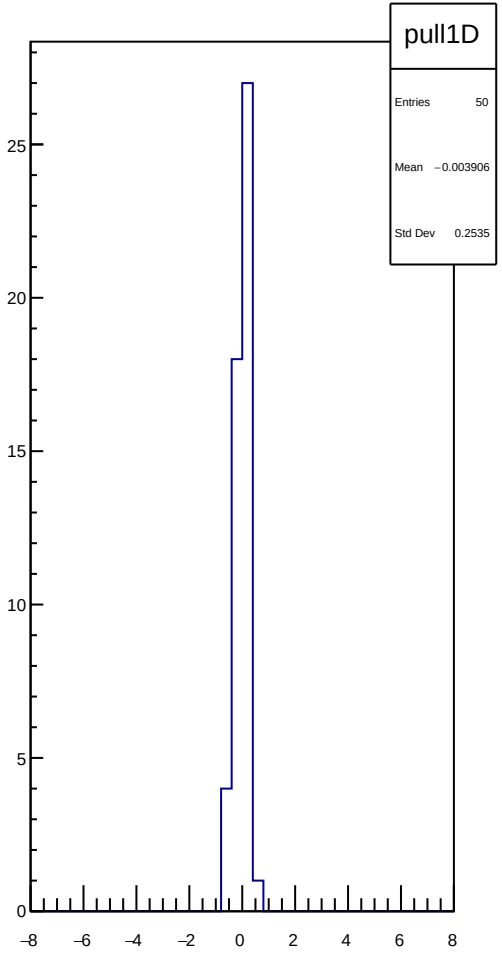

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 132.2 / 49
p0 −356.5 ± 0.918
−340
−350
−360
−370
−380
pull
Entries 50
Mean 78.2
Std Dev 55.19
3
2
1
0
−1
−2

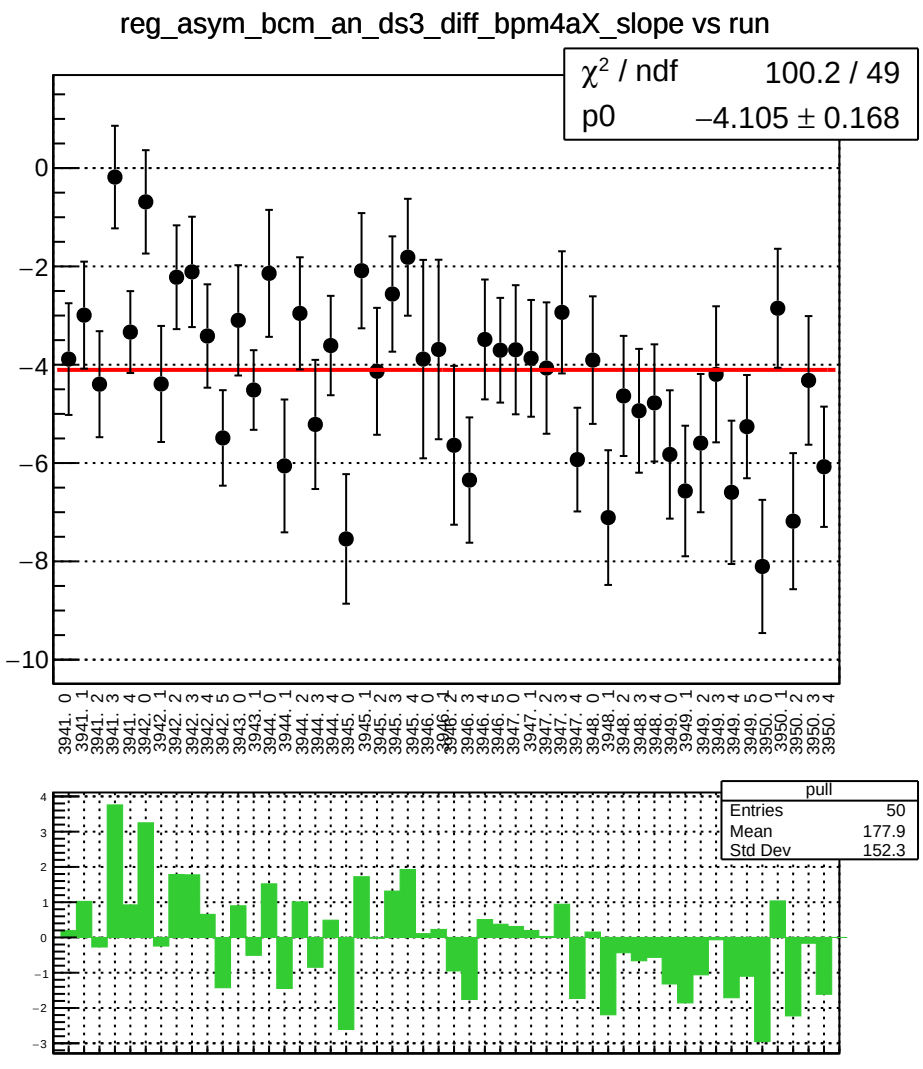

pull1D
Entries 50
Mean −0.3245
Std Dev 1.593
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

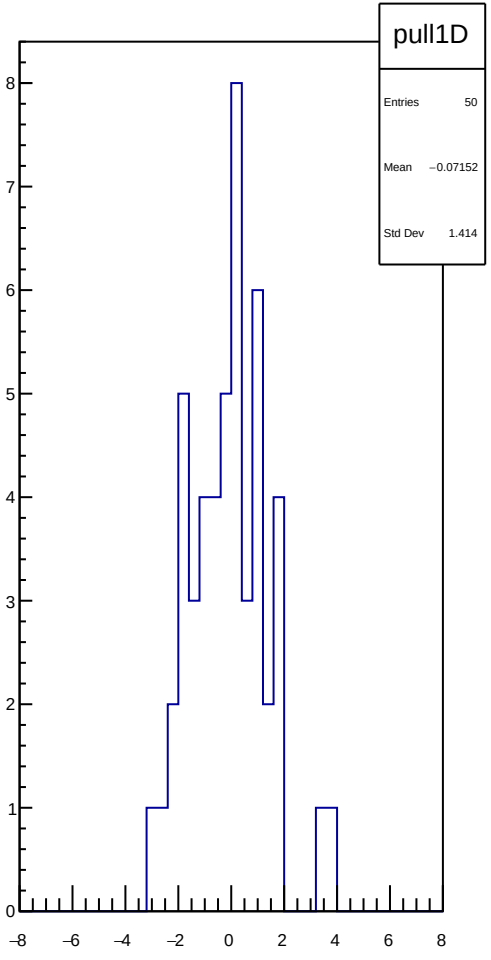

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.328 / 49
p0 171.1 ± 6.88
pull
Entries 50
Mean 119.9
Std Dev 110

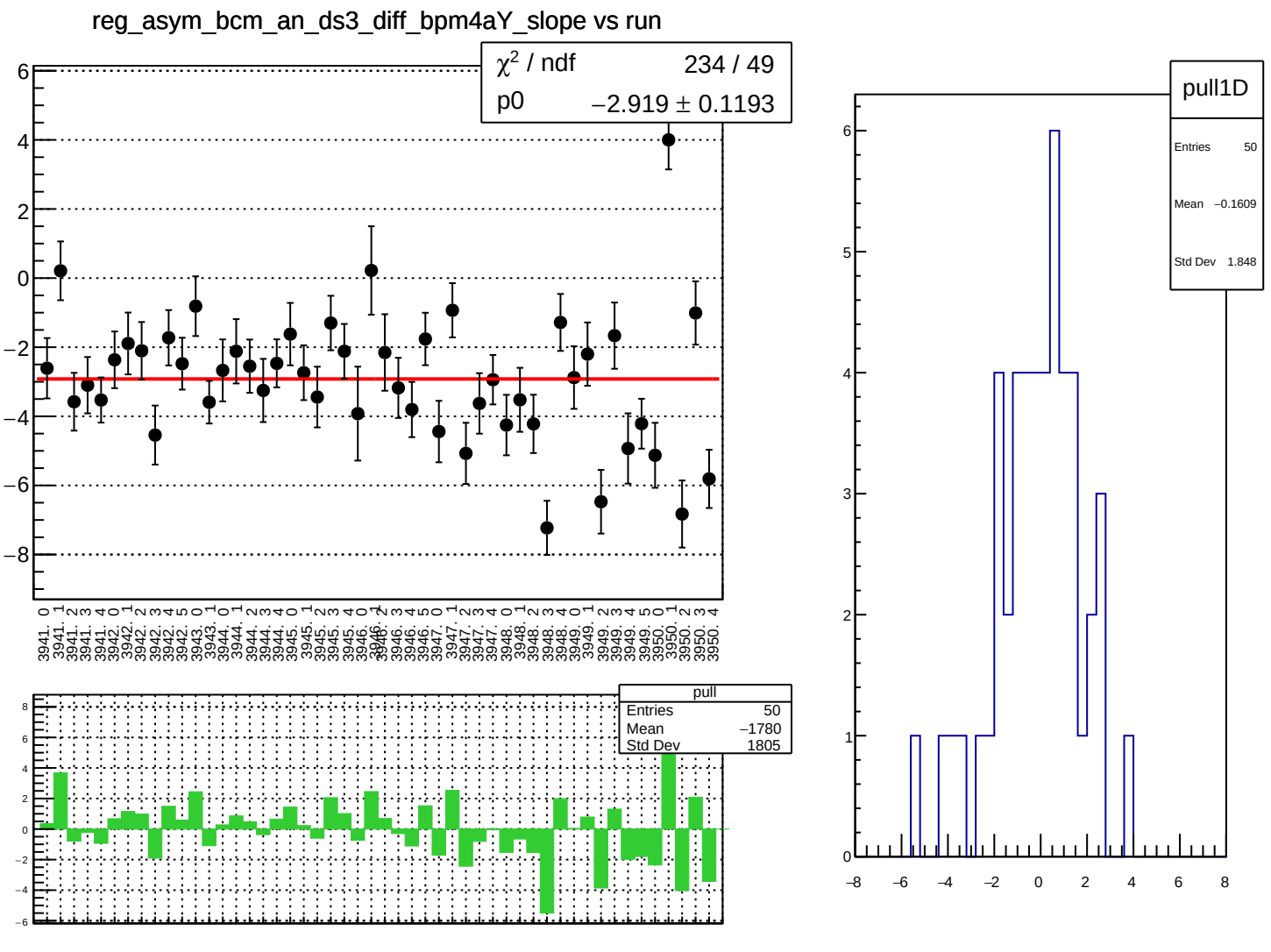

pull1D
Entries 50
Mean 0.006497
Std Dev 0.2941

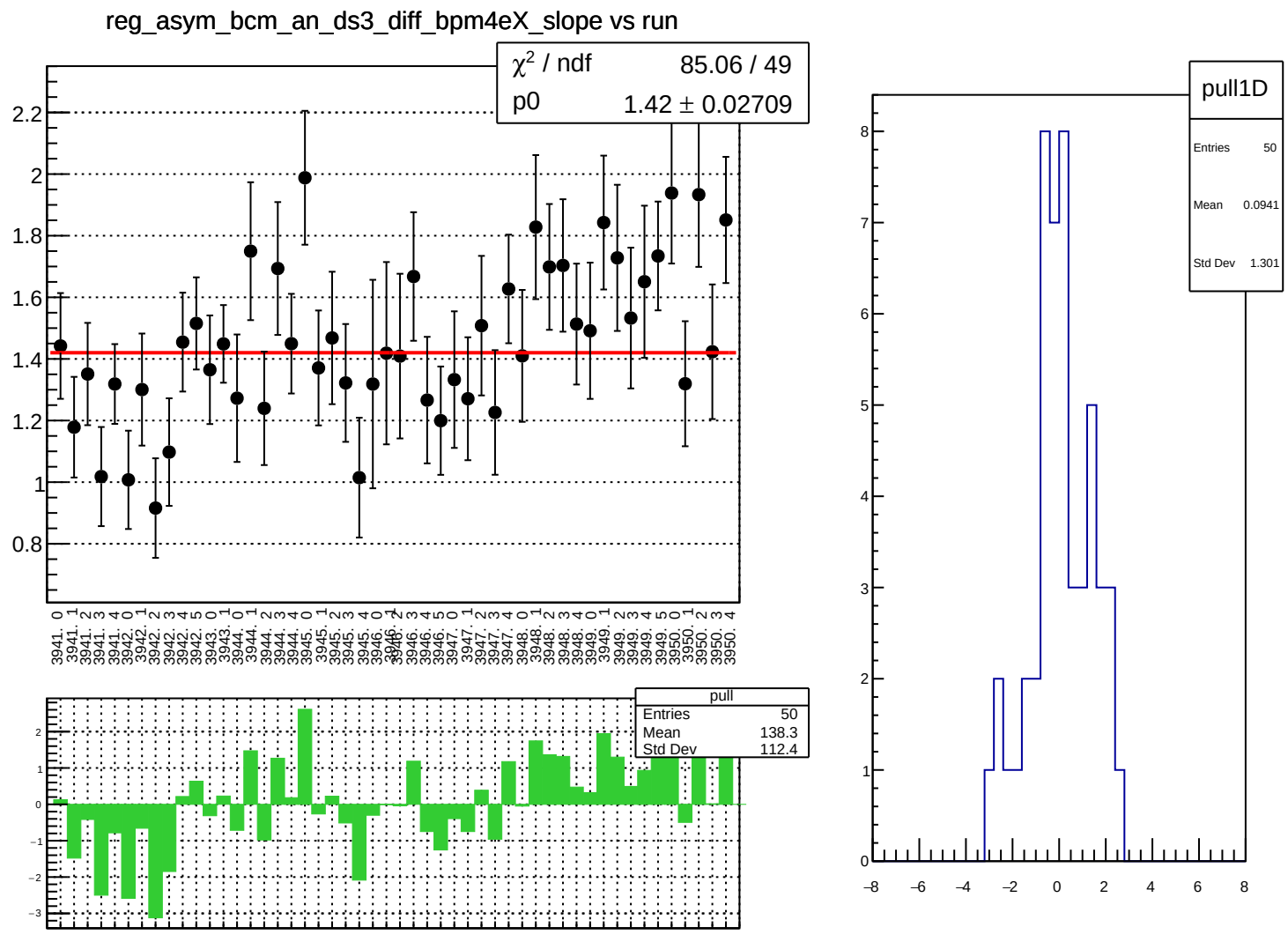

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 3.213 / 49
p0 3.268 ± 1.165
pull
Entries 50
Mean 465.8
Std Dev 441.2

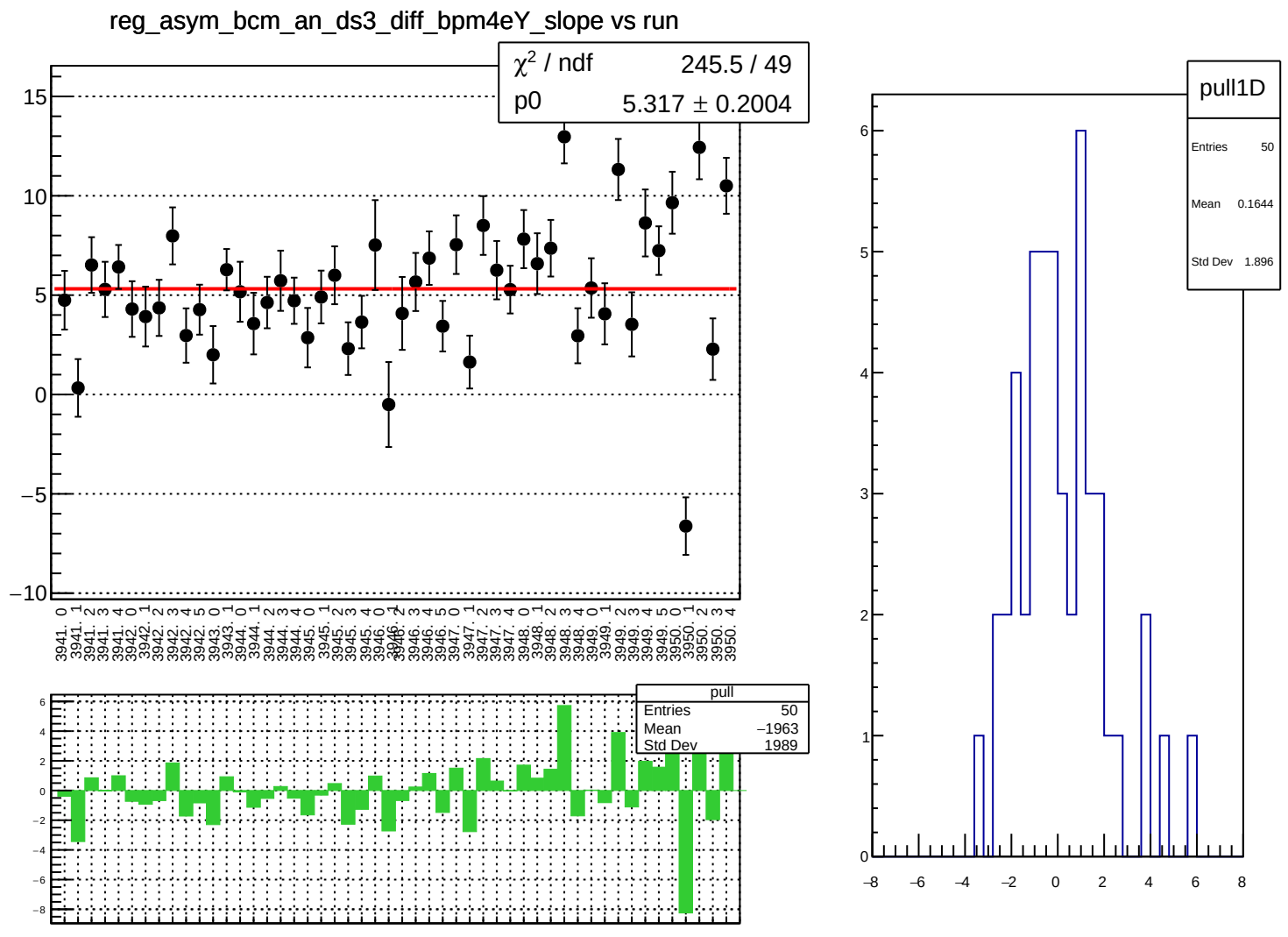

pull1D
Entries 50
Mean −0.003906
Std Dev 0.2535

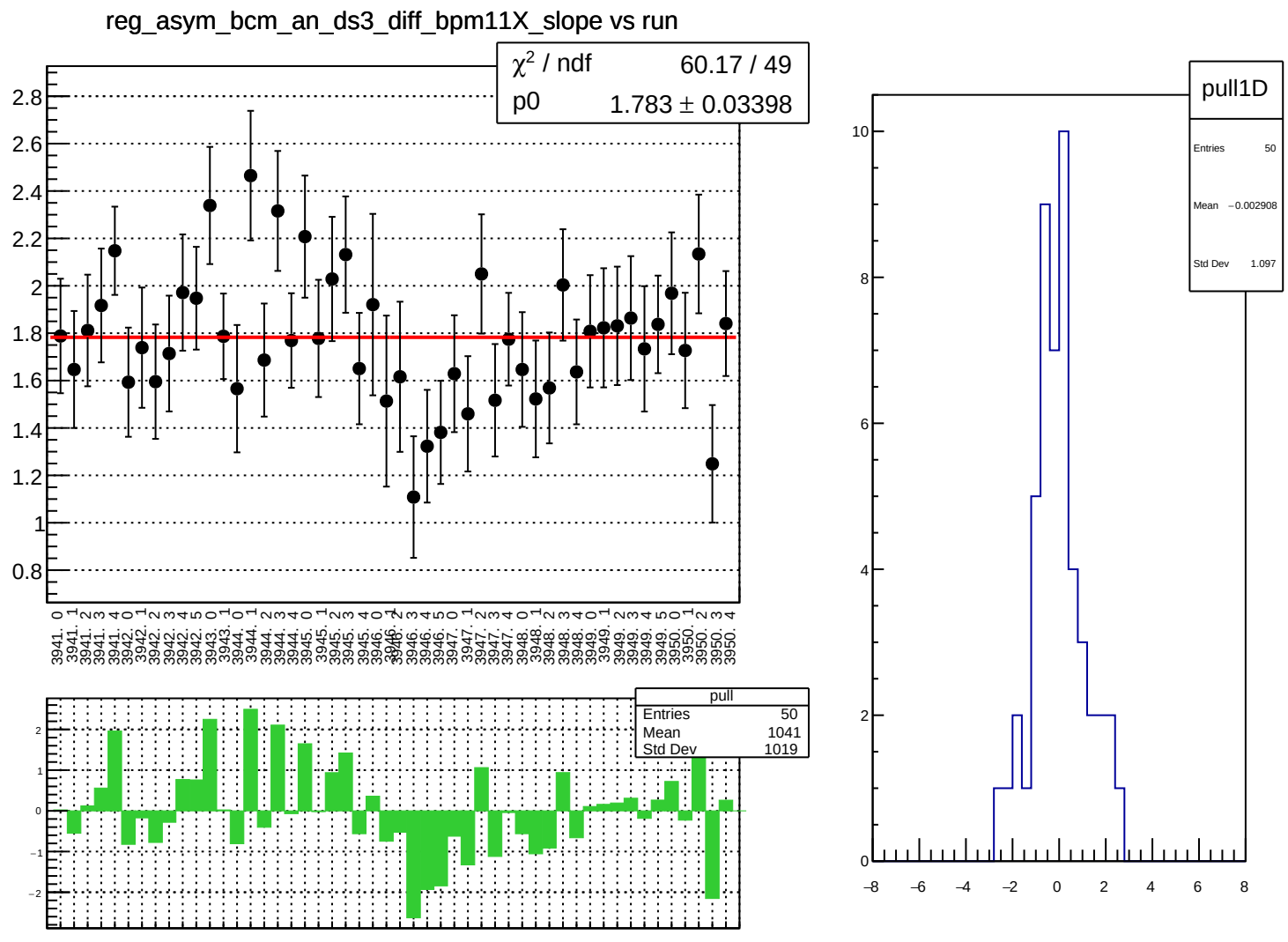

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 100.2 / 49
p0 −4.105 ± 0.168
pull
Entries 50
Mean 177.9
Std Dev 152.3

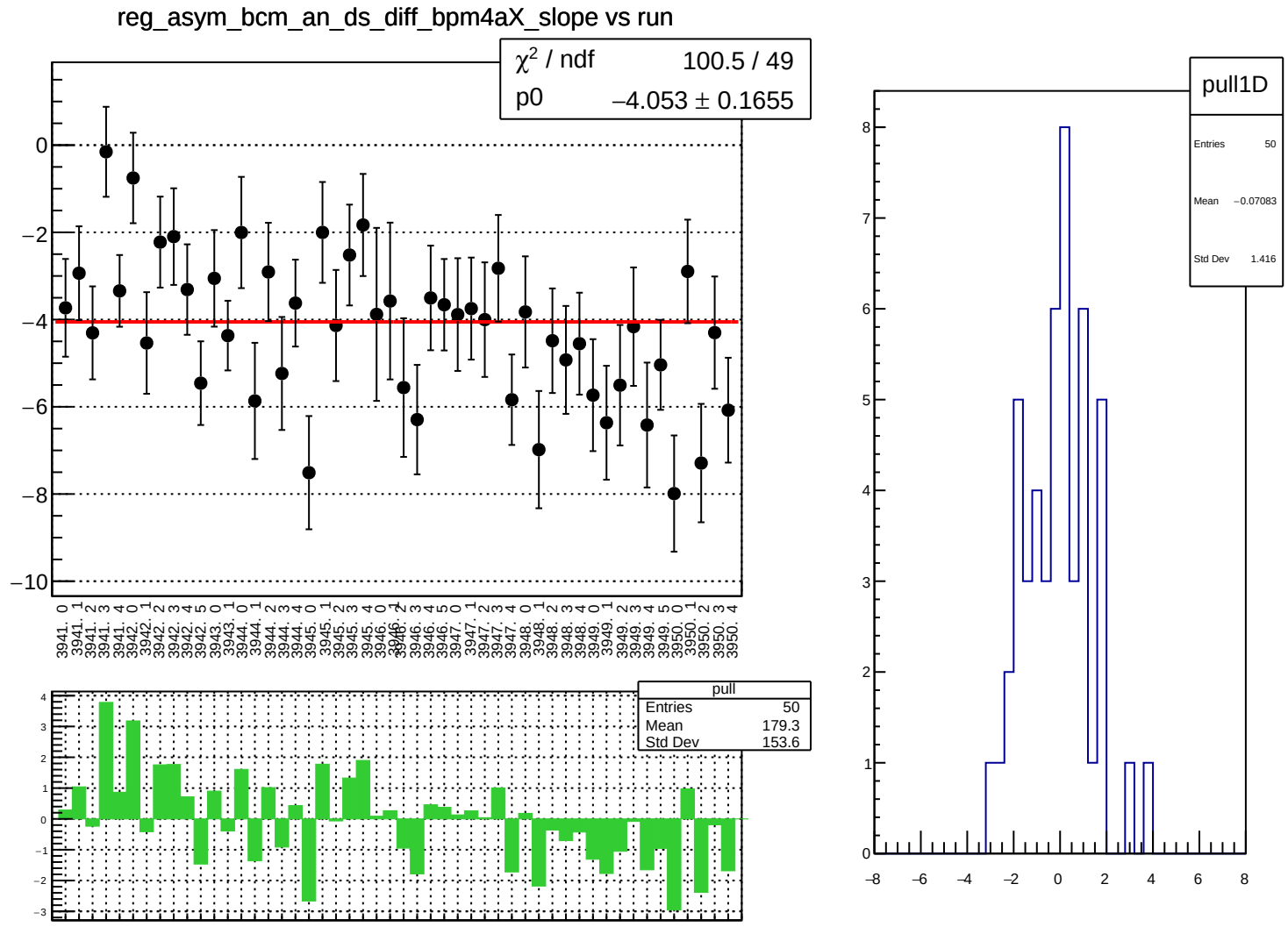

pull1D
Entries 50
Mean −0.07152
Std Dev 1.414

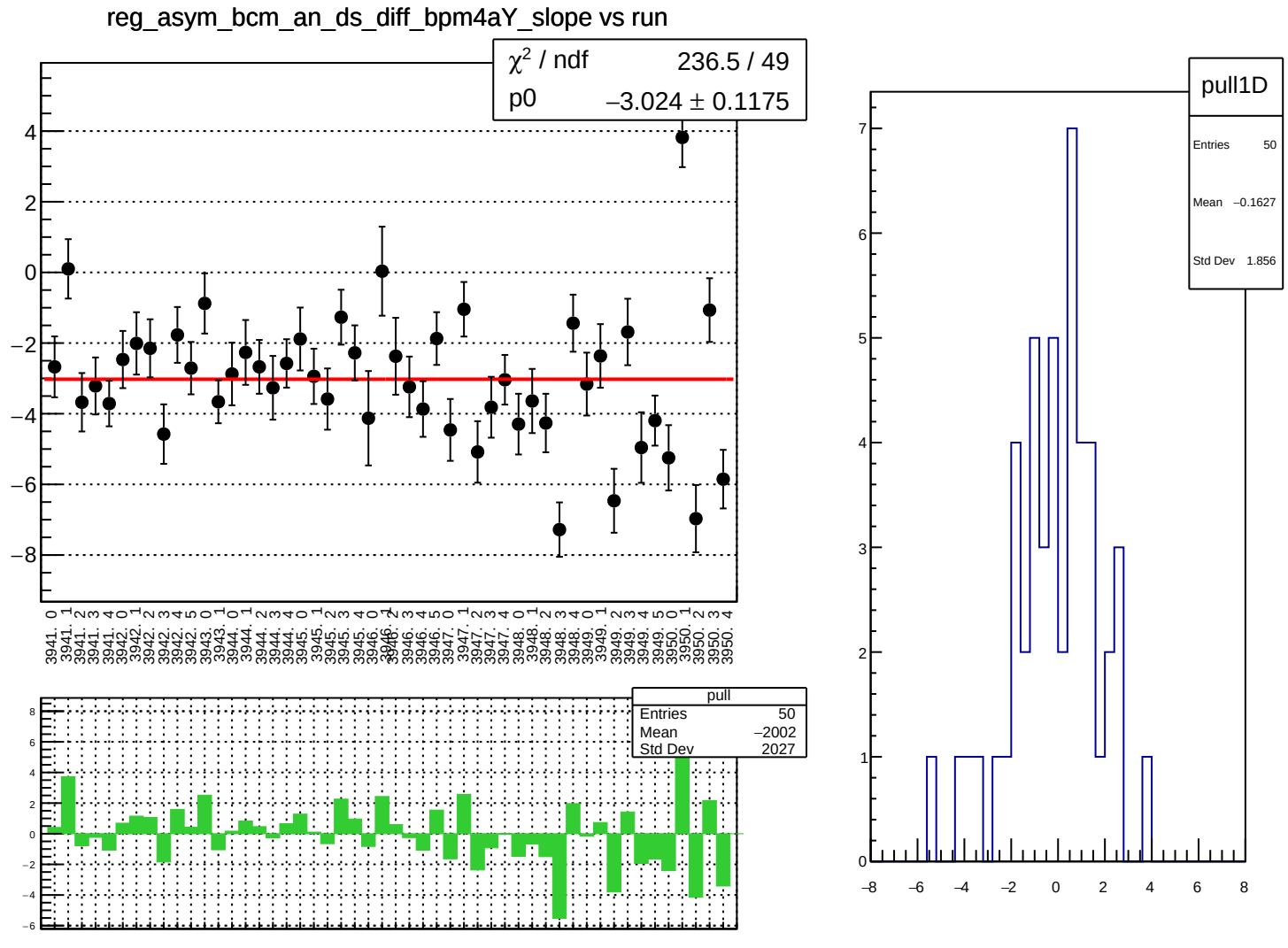

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 234 / 49
p0 −2.919 ± 0.1193
pull
Entries 50
Mean −1780
Std Dev 1805
pull1D
Entries 50
Mean −0.1609
Std Dev 1.848

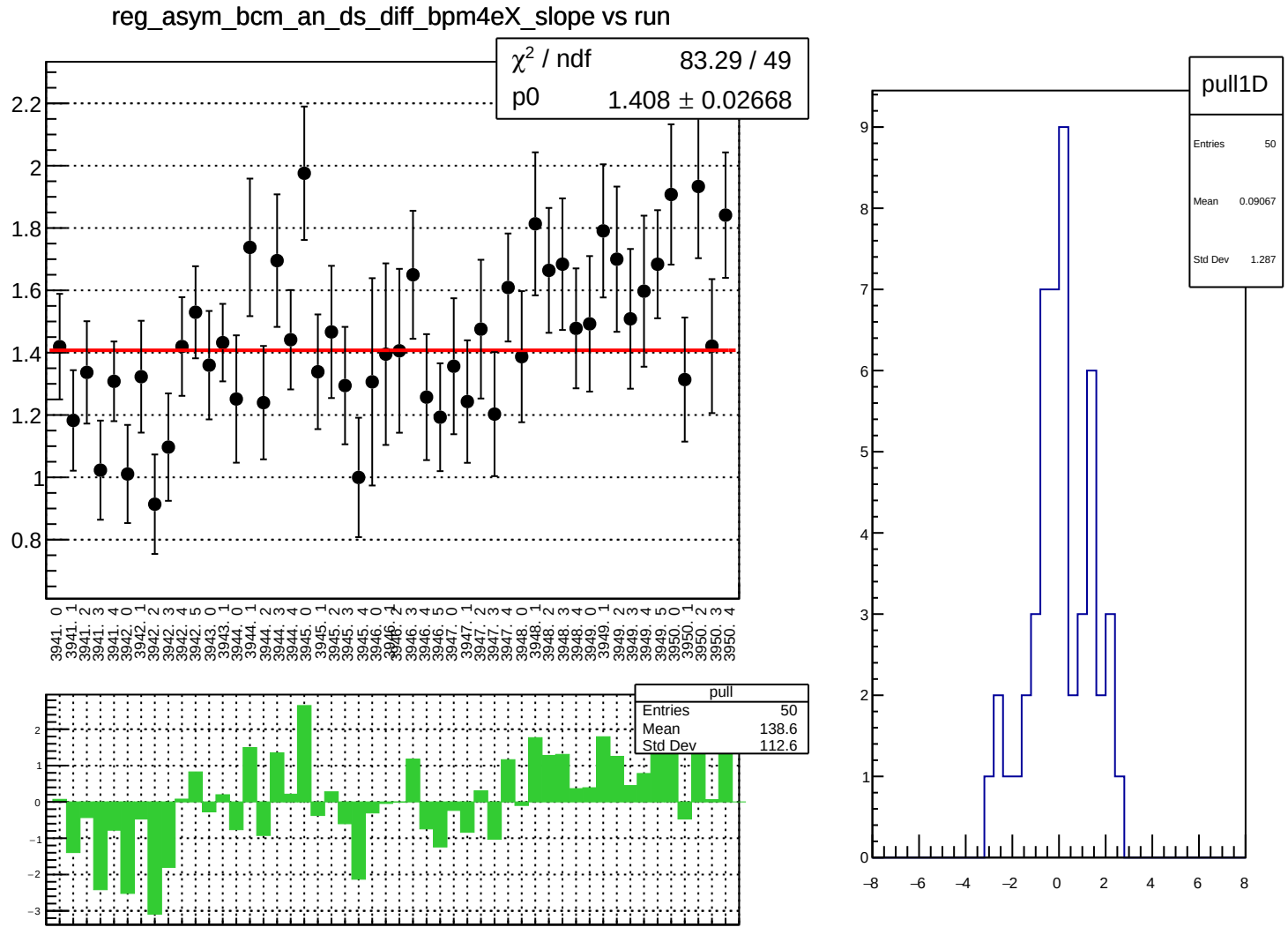

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 85.06 / 49
p0 1.42 ± 0.02709
pull
Entries 50
Mean 138.3
Std Dev 112.4
pull1D
Entries 50
Mean 0.0941
Std Dev 1.301

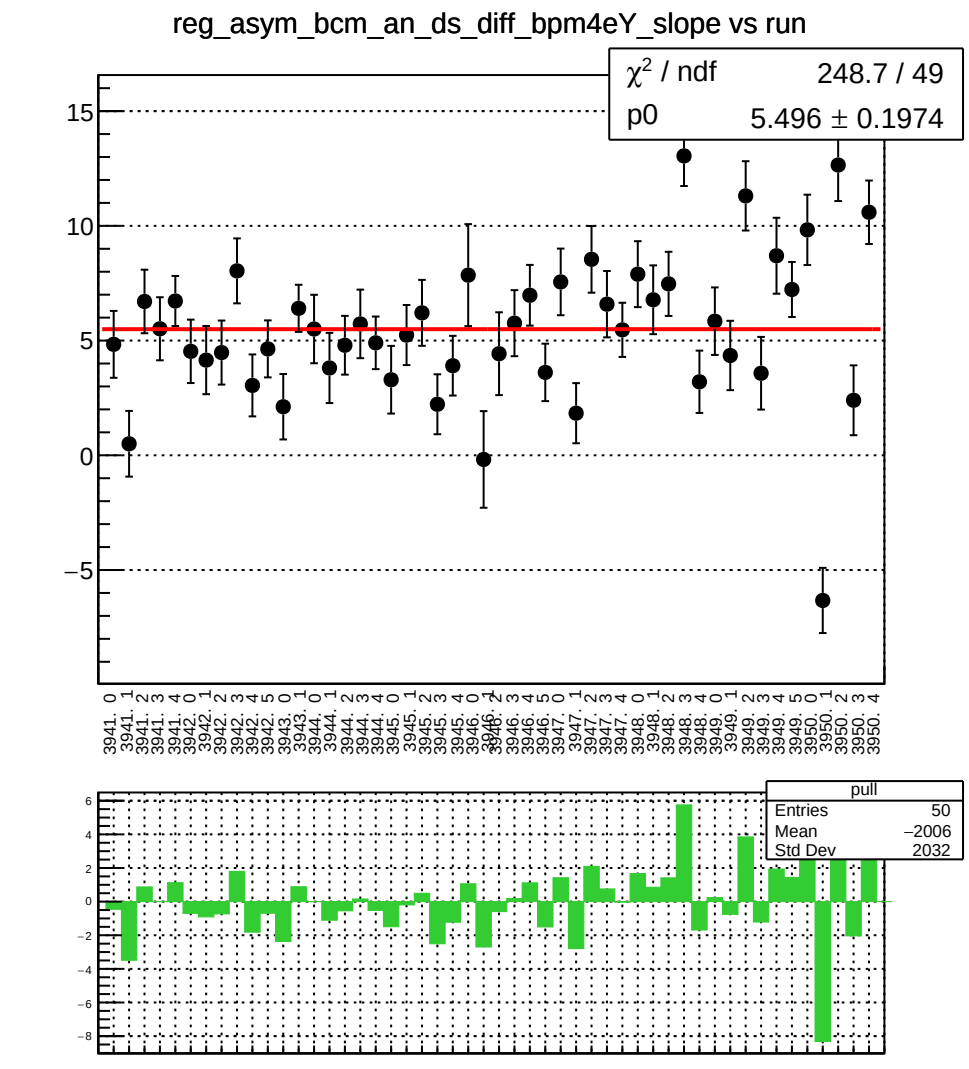

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 245.5 / 49
p0 5.317 ± 0.2004
pull
Entries 50
Mean −1963
Std Dev 1989
pull1D
Entries 50
Mean 0.1644
Std Dev 1.896

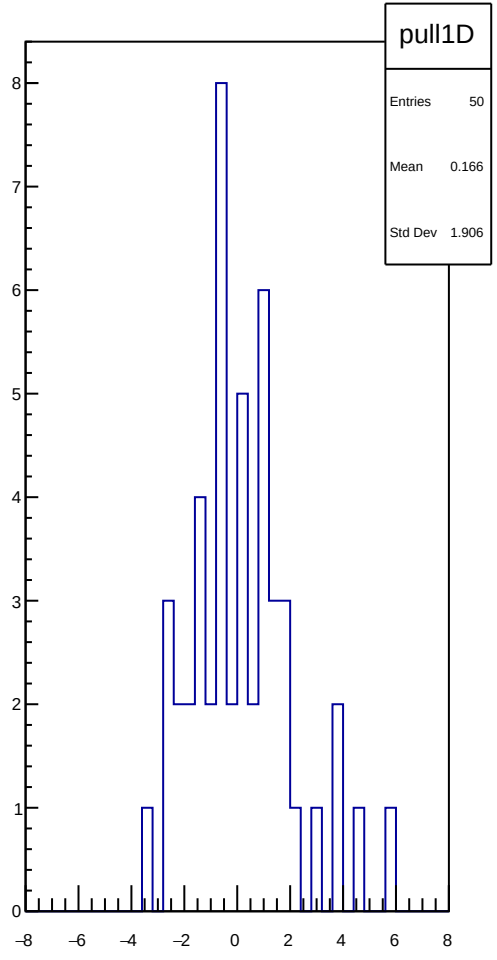

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 60.17 / 49
p0 1.783 ± 0.03398
pull
Entries 50
Mean 1041
Std Dev 1019
pull1D
Entries 50
Mean −0.002908
Std Dev 1.097

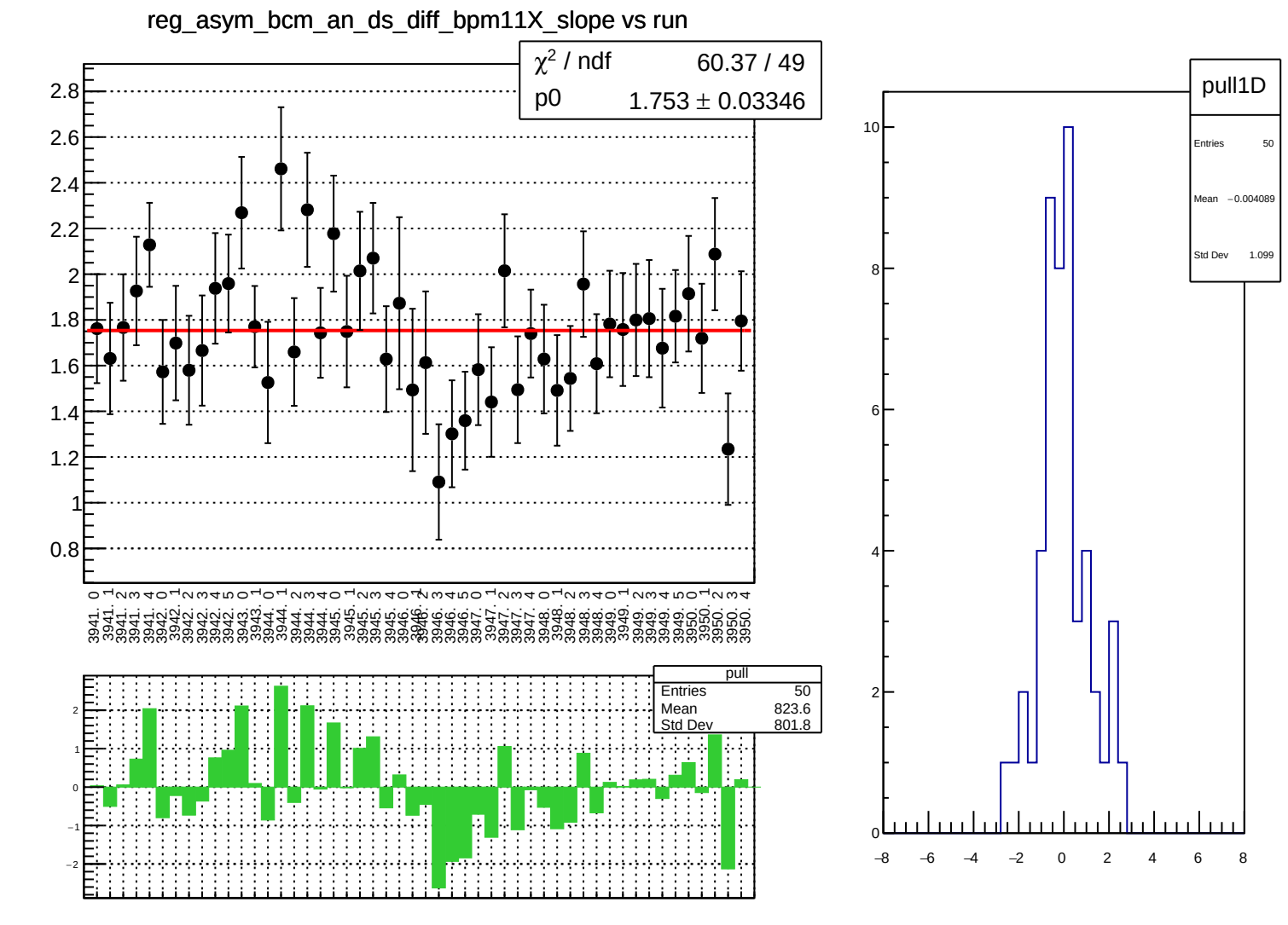

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 100.5 / 49
p0 −4.053 ± 0.1655
pull
Entries 50
Mean 179.3
Std Dev 153.6
pull1D
Entries 50
Mean −0.07083
Std Dev 1.416

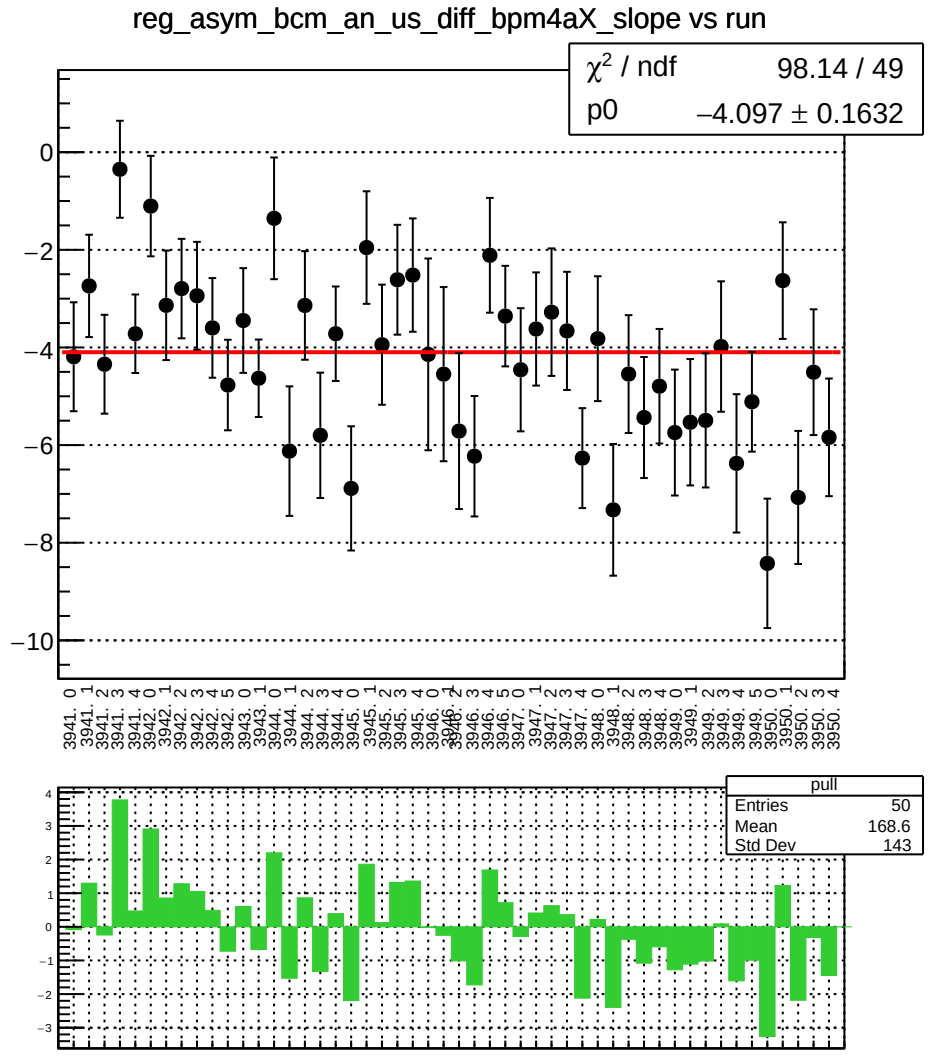

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 236.5 / 49
p0 −3.024 ± 0.1175
pull
Entries 50
Mean −2002
Std Dev 2027
pull1D
Entries 50
Mean −0.1627
Std Dev 1.856

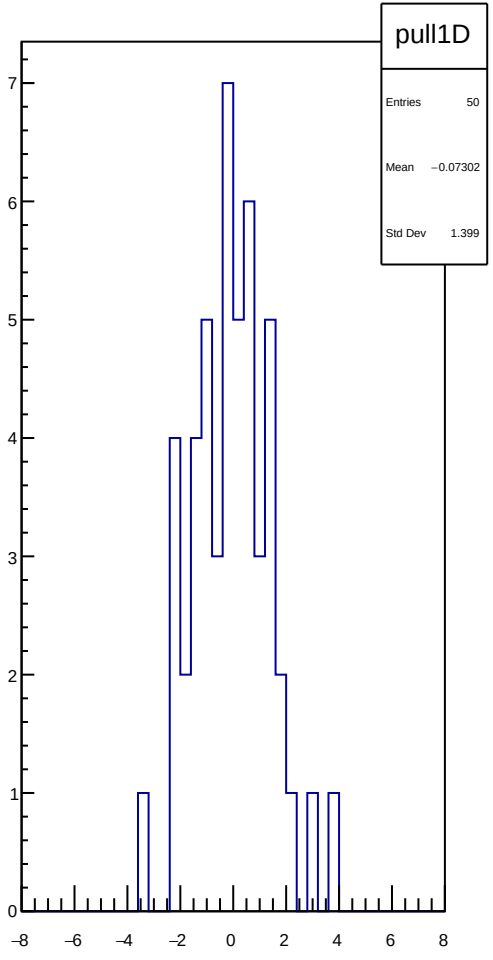

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 83.29 / 49
p0 1.408 ± 0.02668
pull
Entries 50
Mean 138.6
Std Dev 112.6
pull1D
Entries 50
Mean 0.09067
Std Dev 1.287

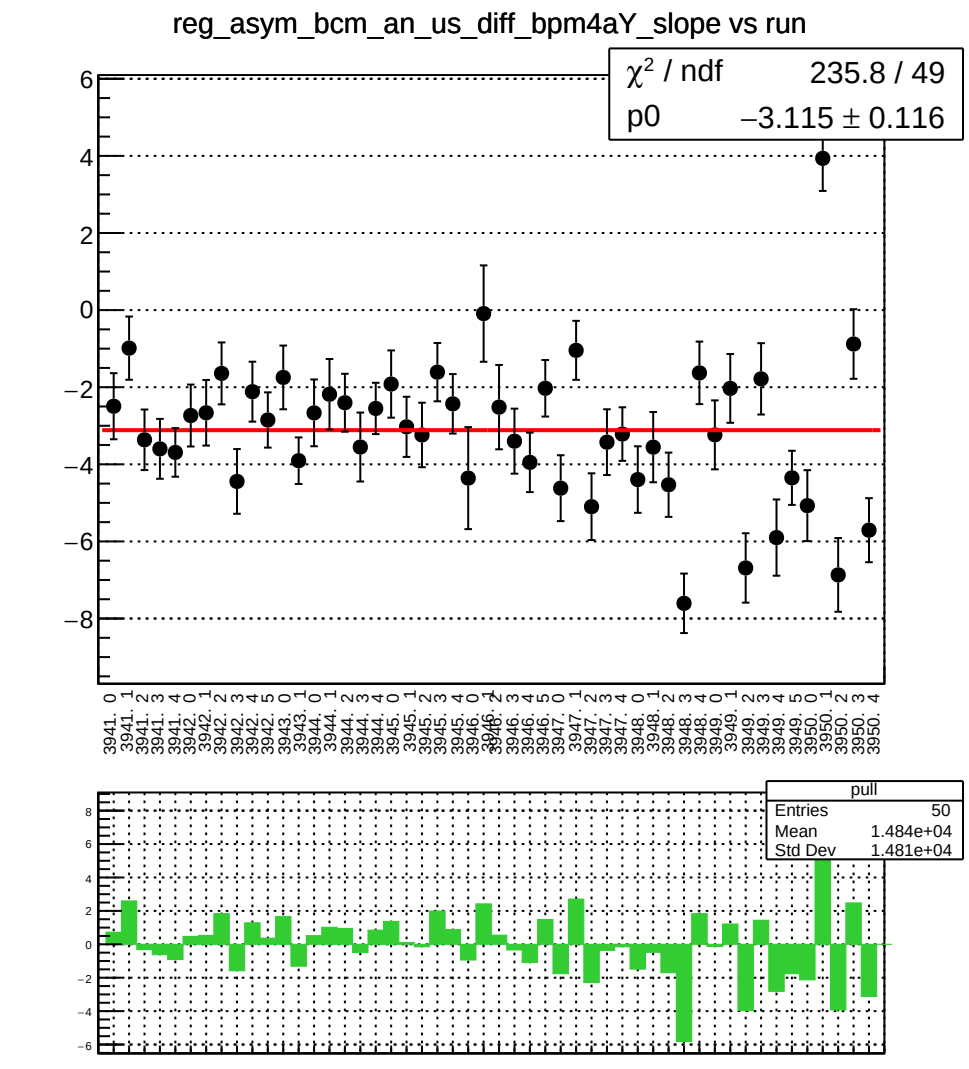

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 248.7 / 49
p0 5.496 ± 0.1974
pull
Entries 50
Mean −2006
Std Dev 2032

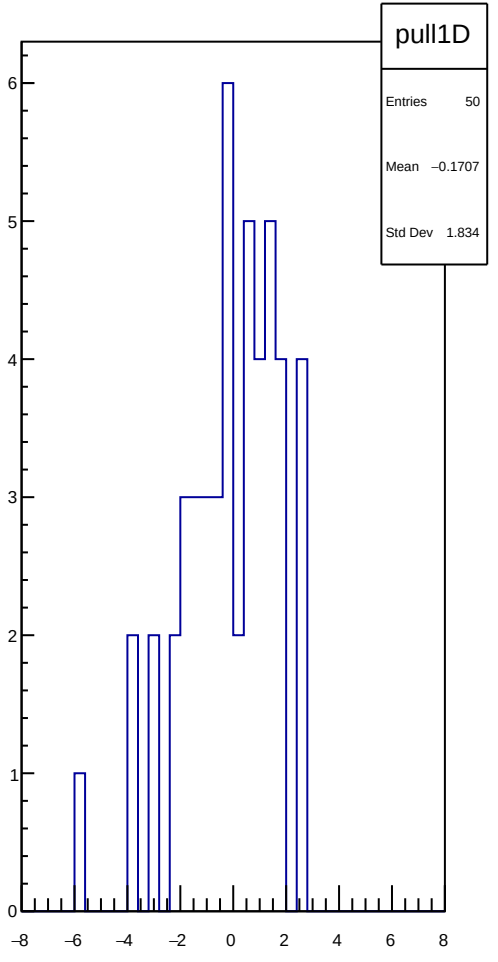

pull1D
Entries 50
Mean 0.166
Std Dev 1.906

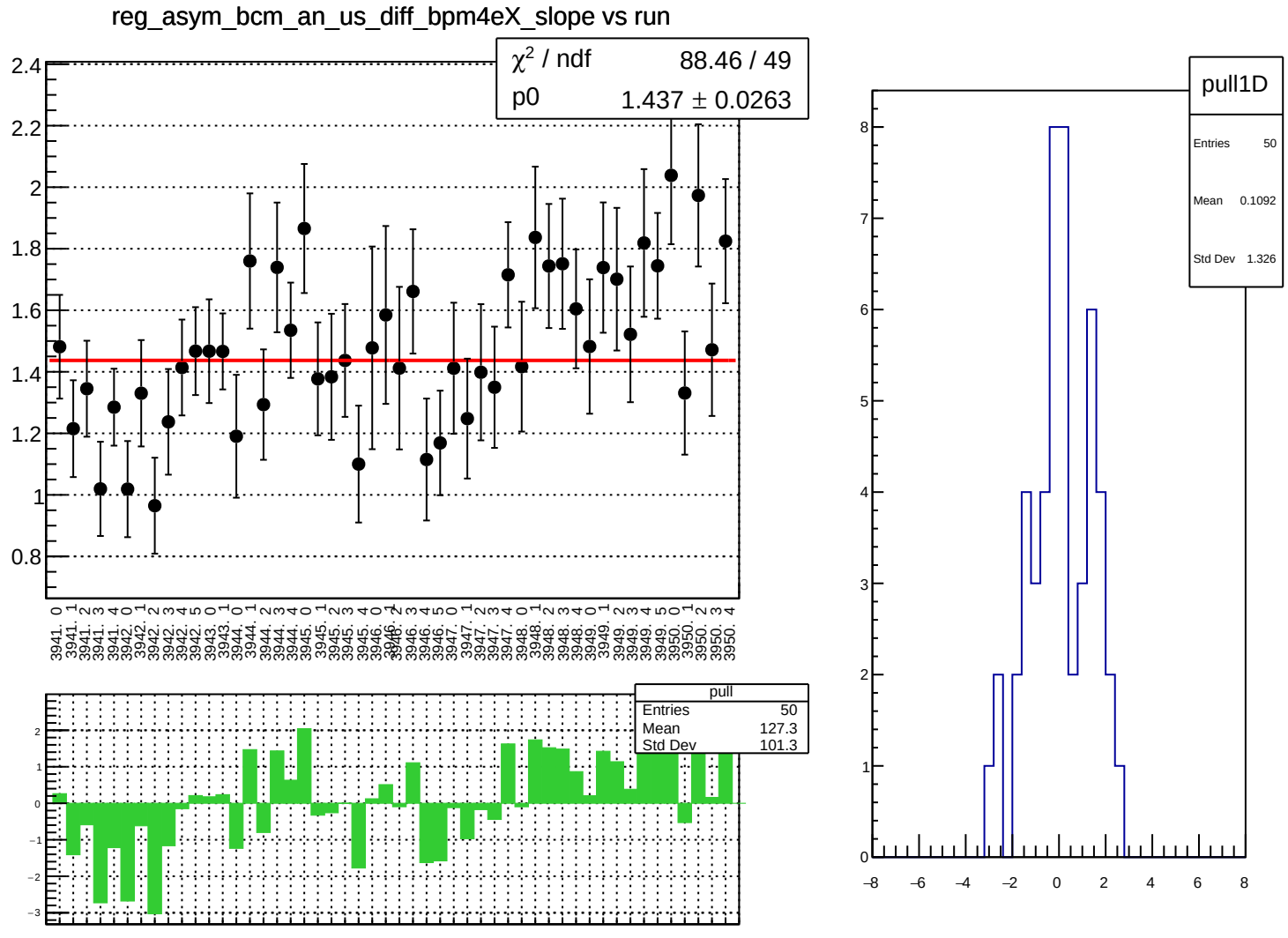

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 60.37 / 49
p0 1.753 ± 0.03346
pull
Entries 50
Mean 823.6
Std Dev 801.8
pull1D
Entries 50
Mean −0.004089
Std Dev 1.099

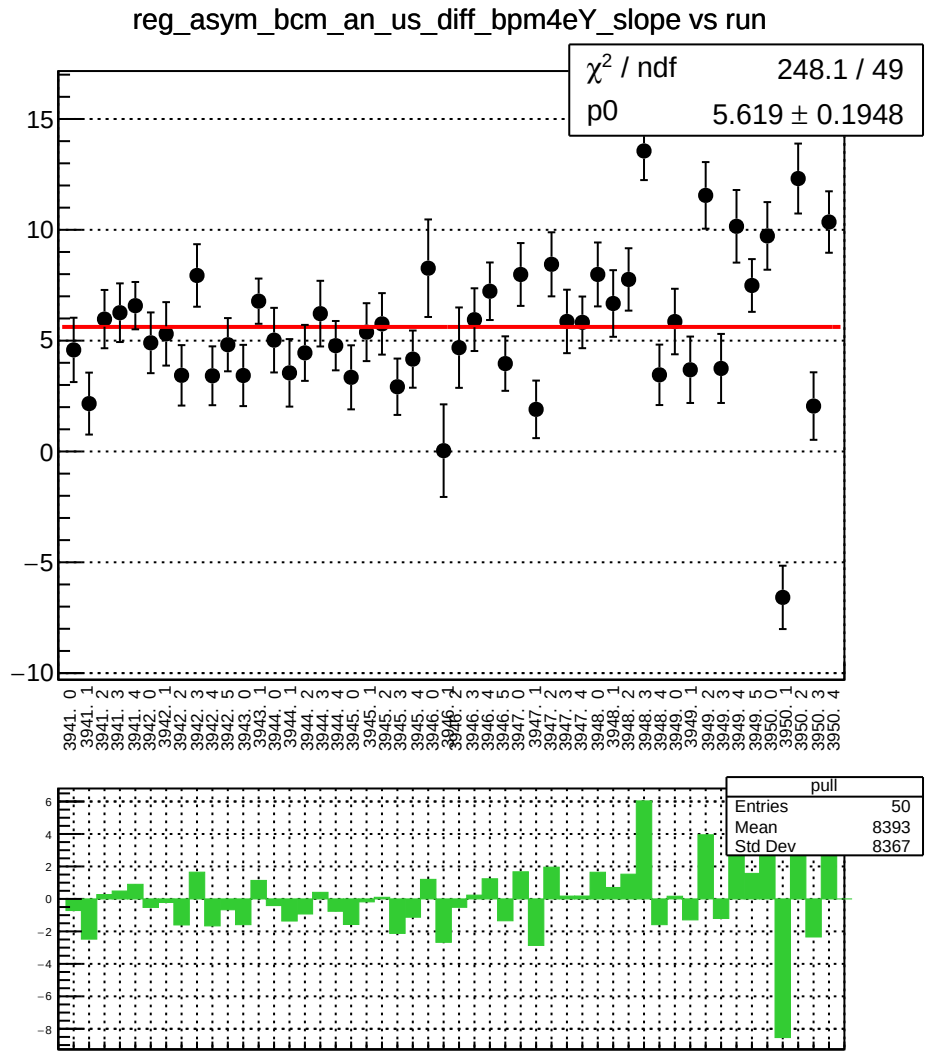

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 98.14 / 49
p0 −4.097 ± 0.1632
pull
Entries 50
Mean 168.6
Std Dev 143

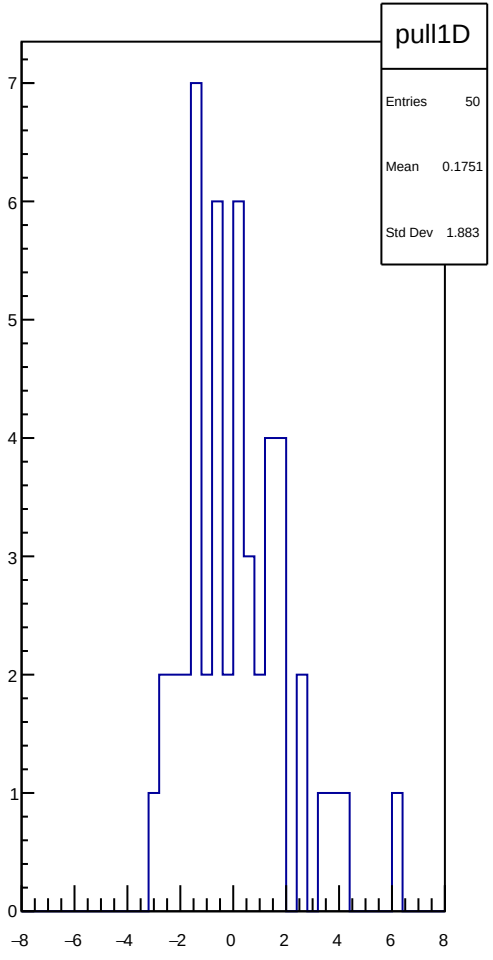

pull1D
Entries 50
Mean −0.07302
Std Dev 1.399

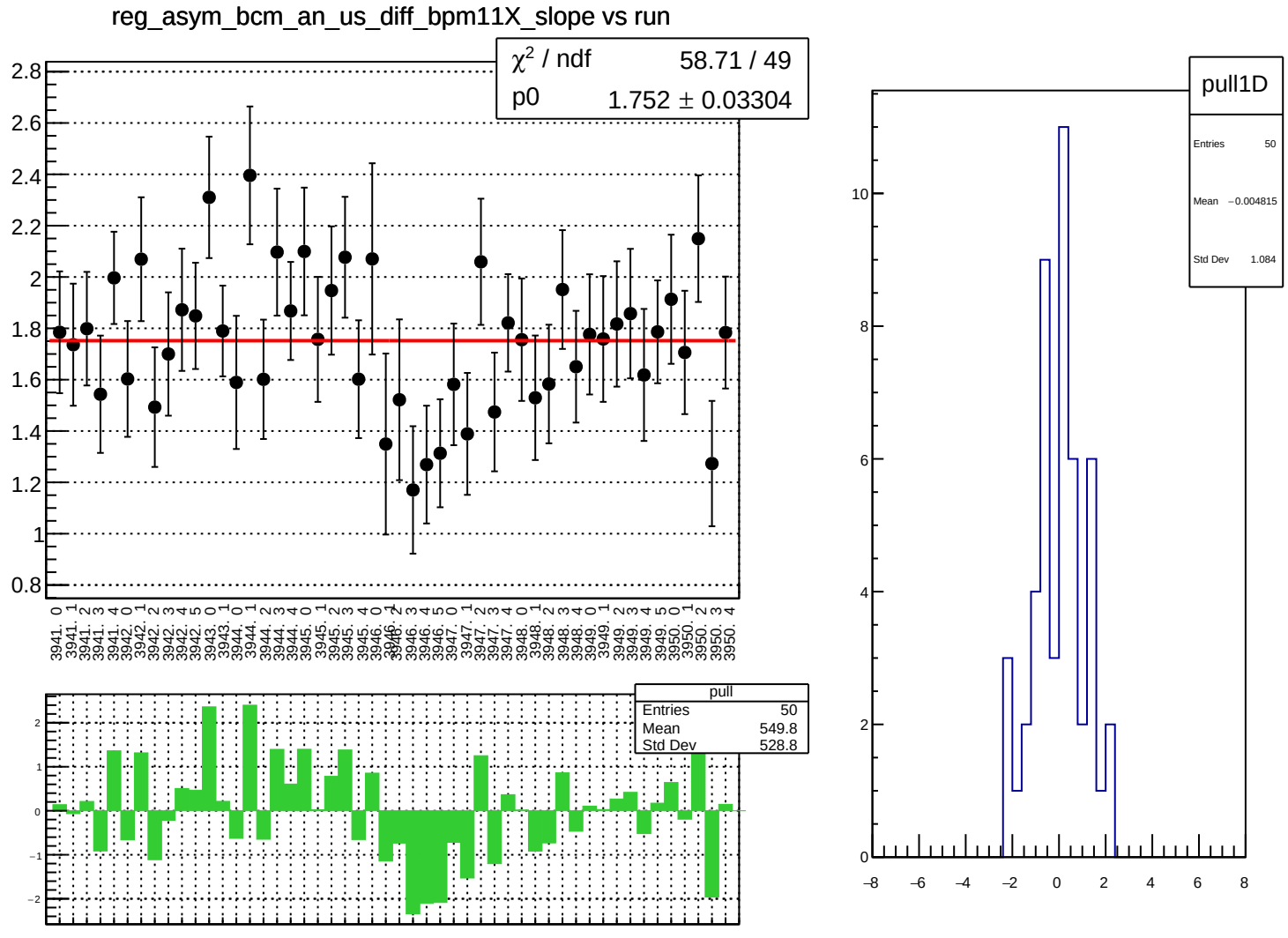

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 235.8 / 49
p0 −3.115 ± 0.116
pull
Entries 50
Mean 1.484e+04
Std Dev 1.481e+04

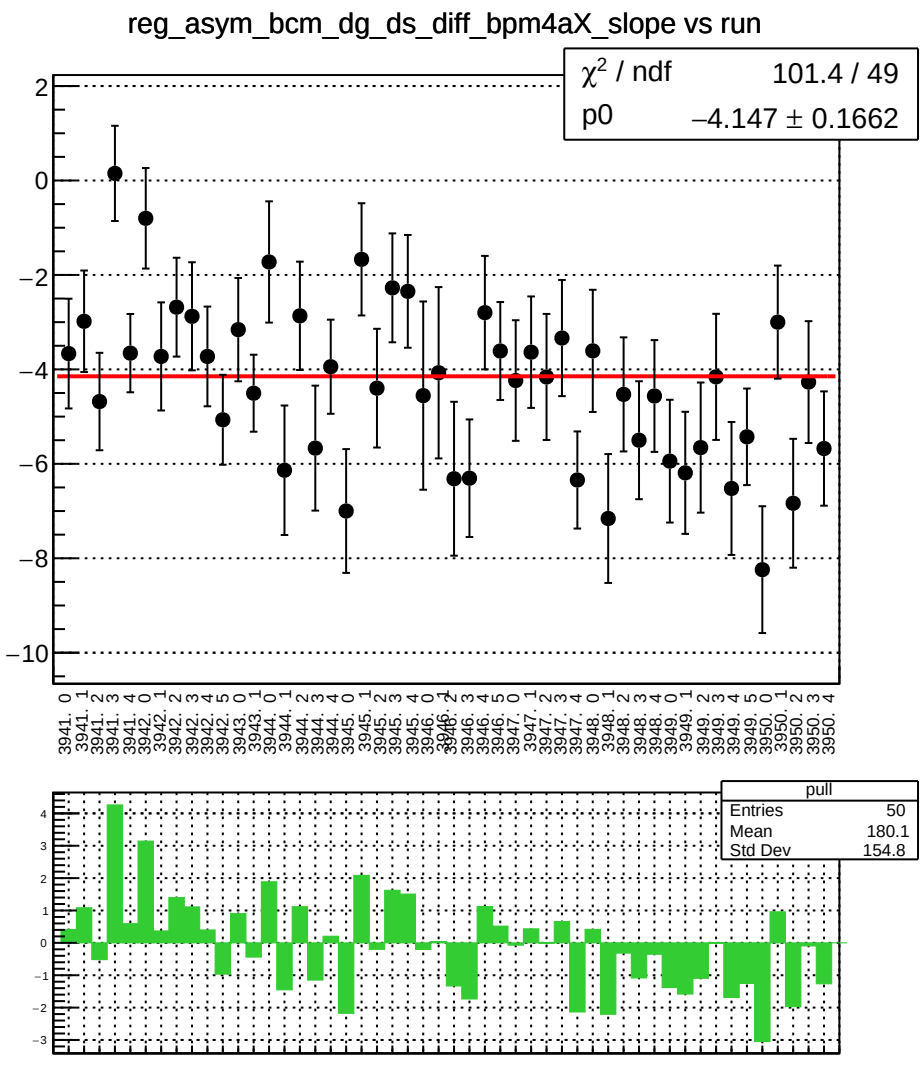

pull1D
Entries 50
Mean −0.1707
Std Dev 1.834

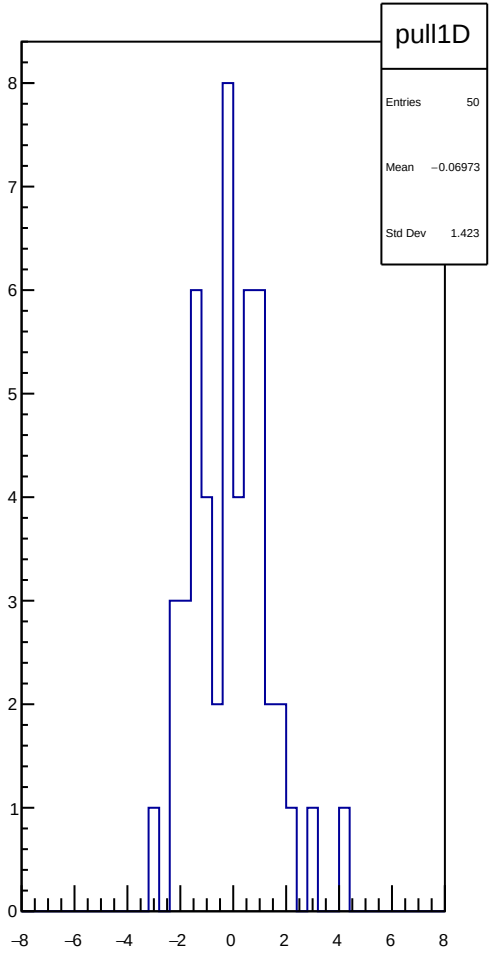

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 88.46 / 49
p0 1.437 ± 0.0263
pull
Entries 50
Mean 127.3
Std Dev 101.3
pull1D
Entries 50
Mean 0.1092
Std Dev 1.326

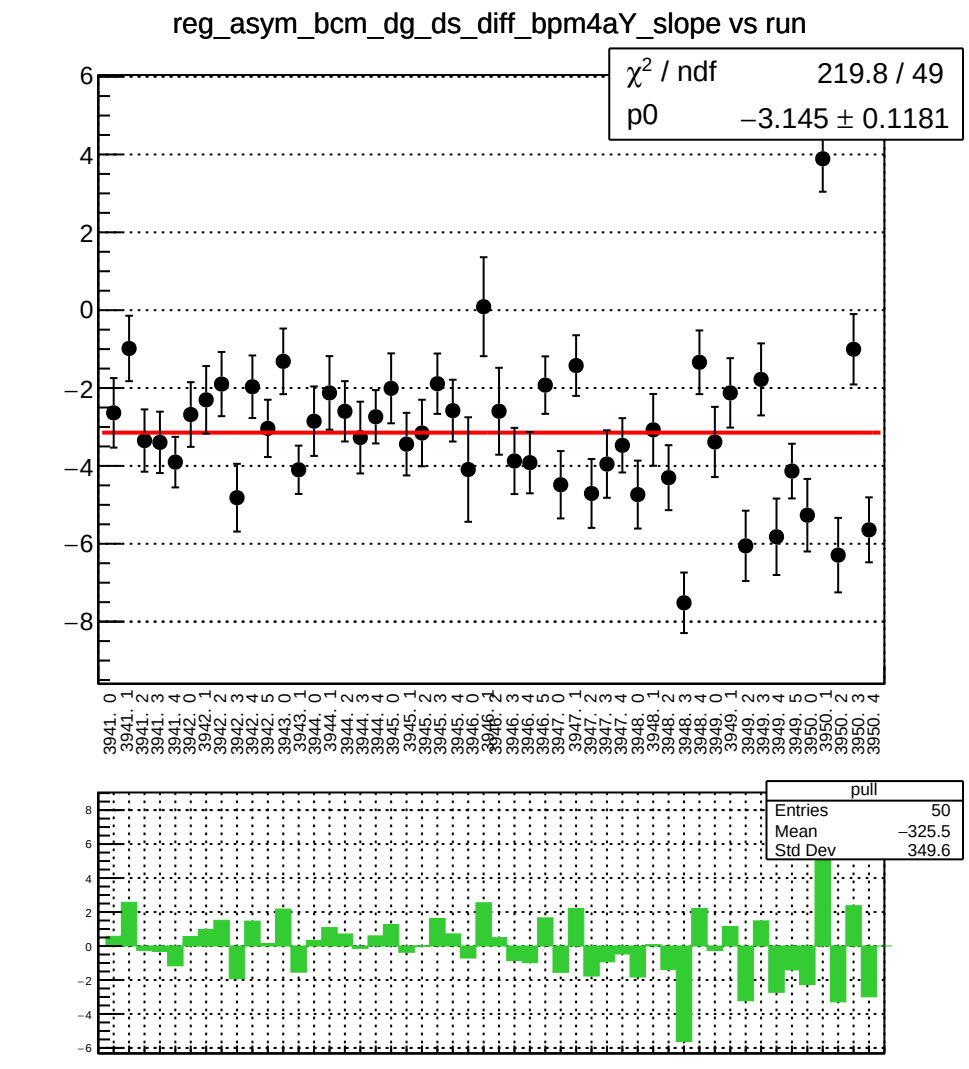

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 248.1 / 49
p0 5.619 ± 0.1948
pull
Entries 50
Mean 8393
Std Dev 8367

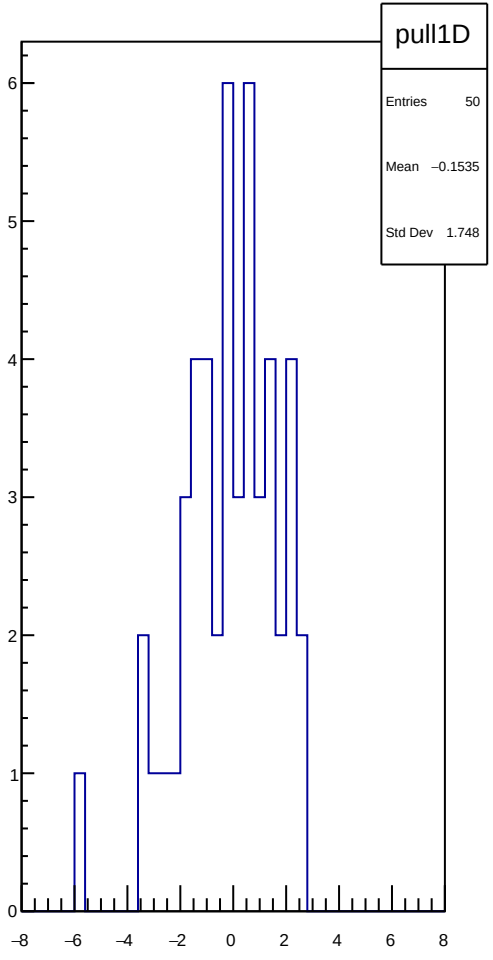

pull1D
Entries 50
Mean 0.1751
Std Dev 1.883

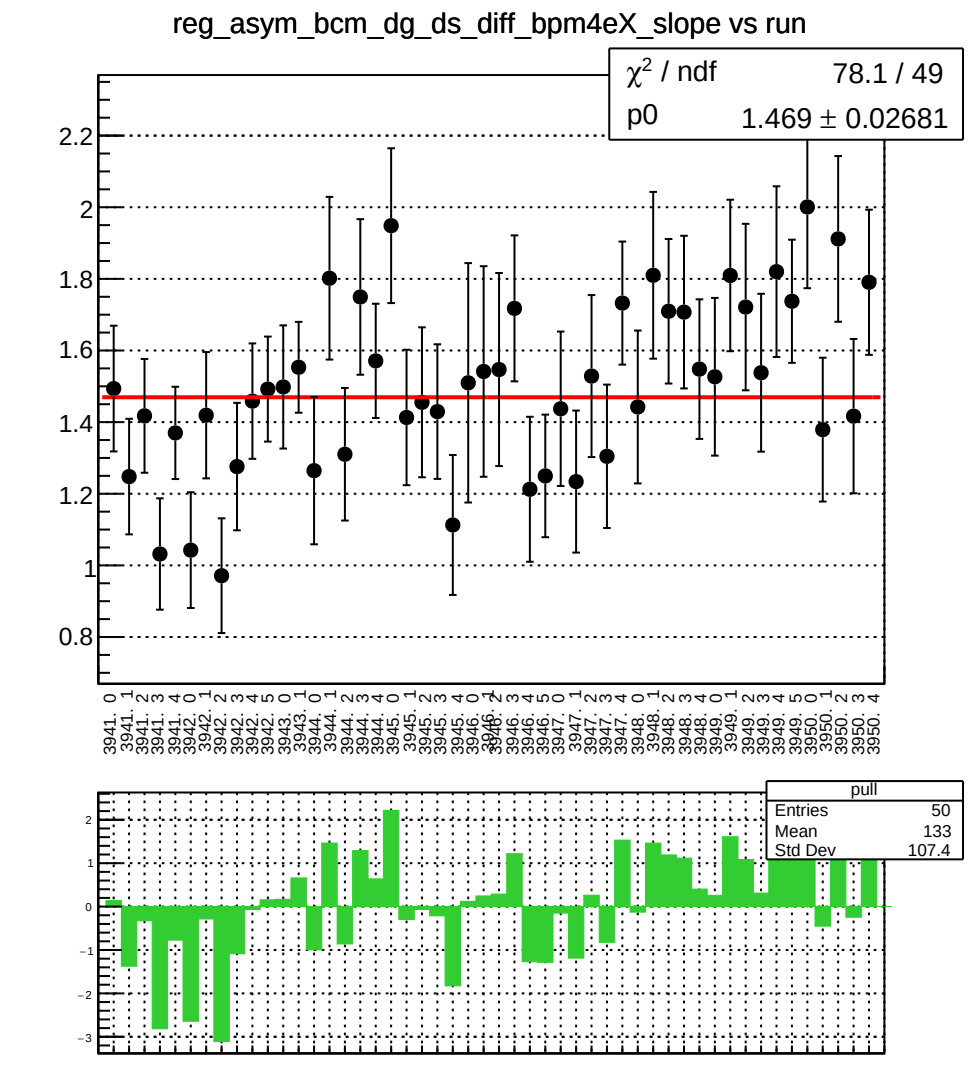

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 58.71 / 49
p0 1.752 ± 0.03304
pull
Entries 50
Mean 549.8
Std Dev 528.8
pull1D
Entries 50
Mean −0.004815
Std Dev 1.084

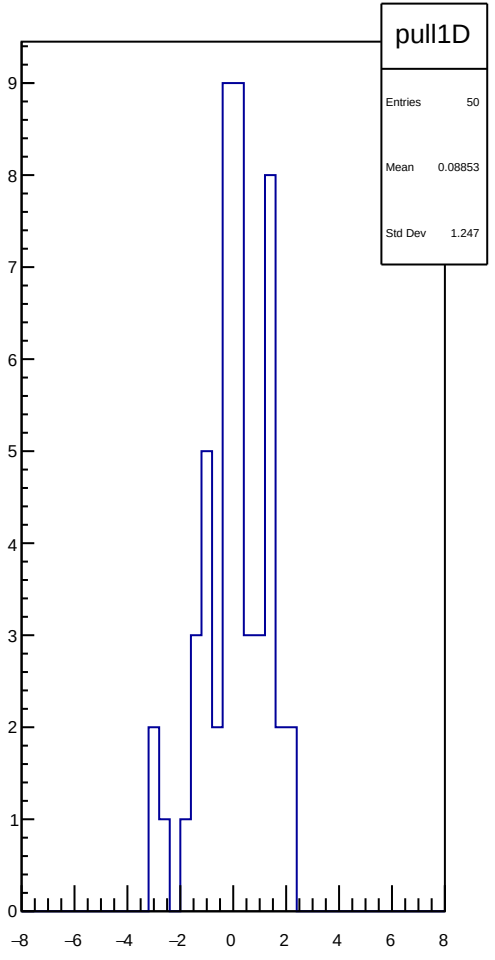

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 101.4 / 49
p0 −4.147 ± 0.1662
pull
Entries 50
Mean 180.1
Std Dev 154.8

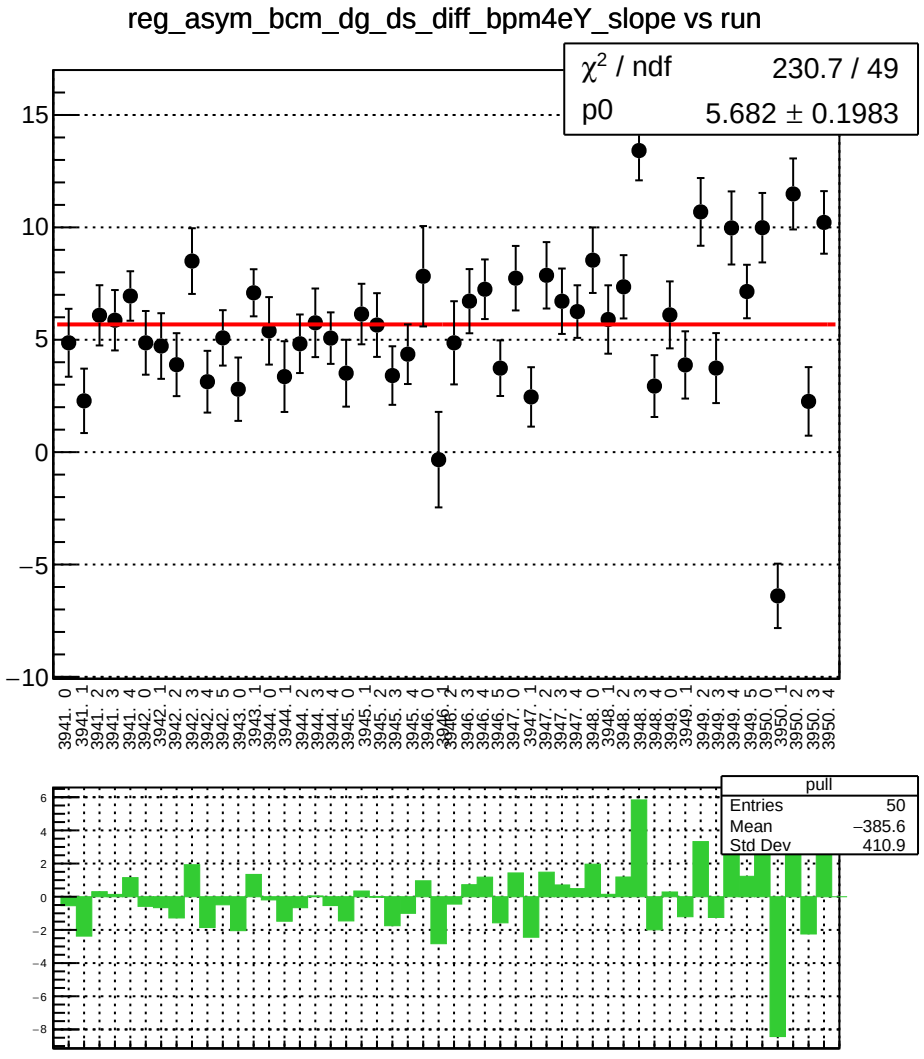

pull1D
Entries 50
Mean −0.06973
Std Dev 1.423

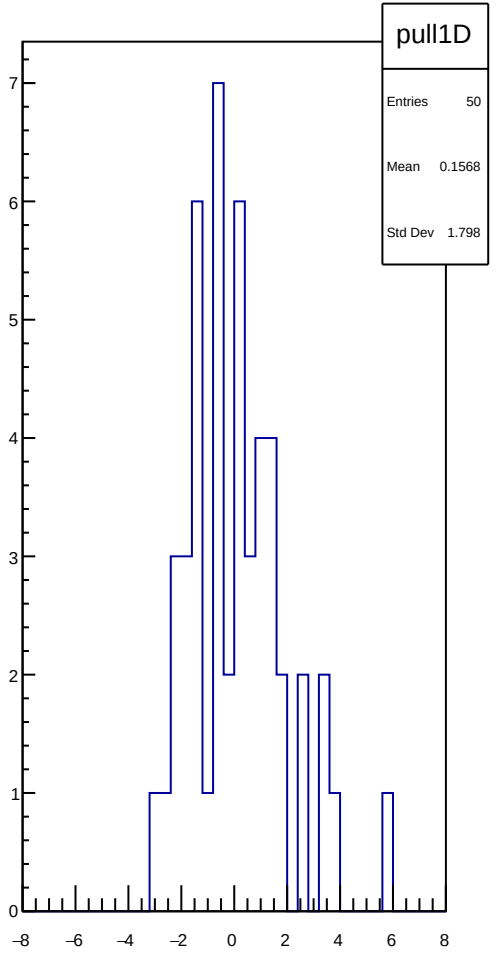

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 219.8 / 49
p0 −3.145 ± 0.1181
pull
Entries 50
Mean −325.5
Std Dev 349.6

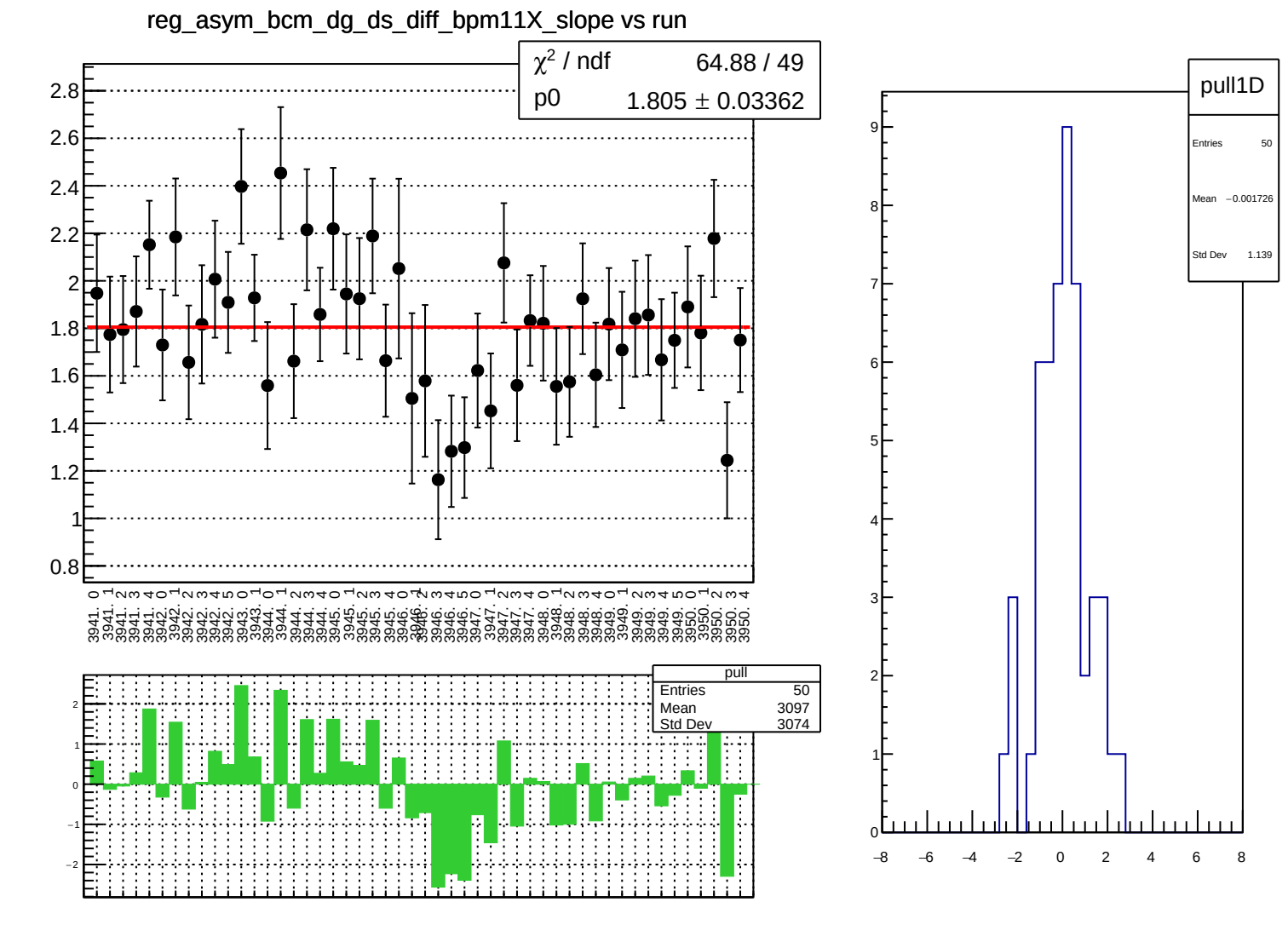

pull1D
Entries 50
Mean −0.1535
Std Dev 1.748

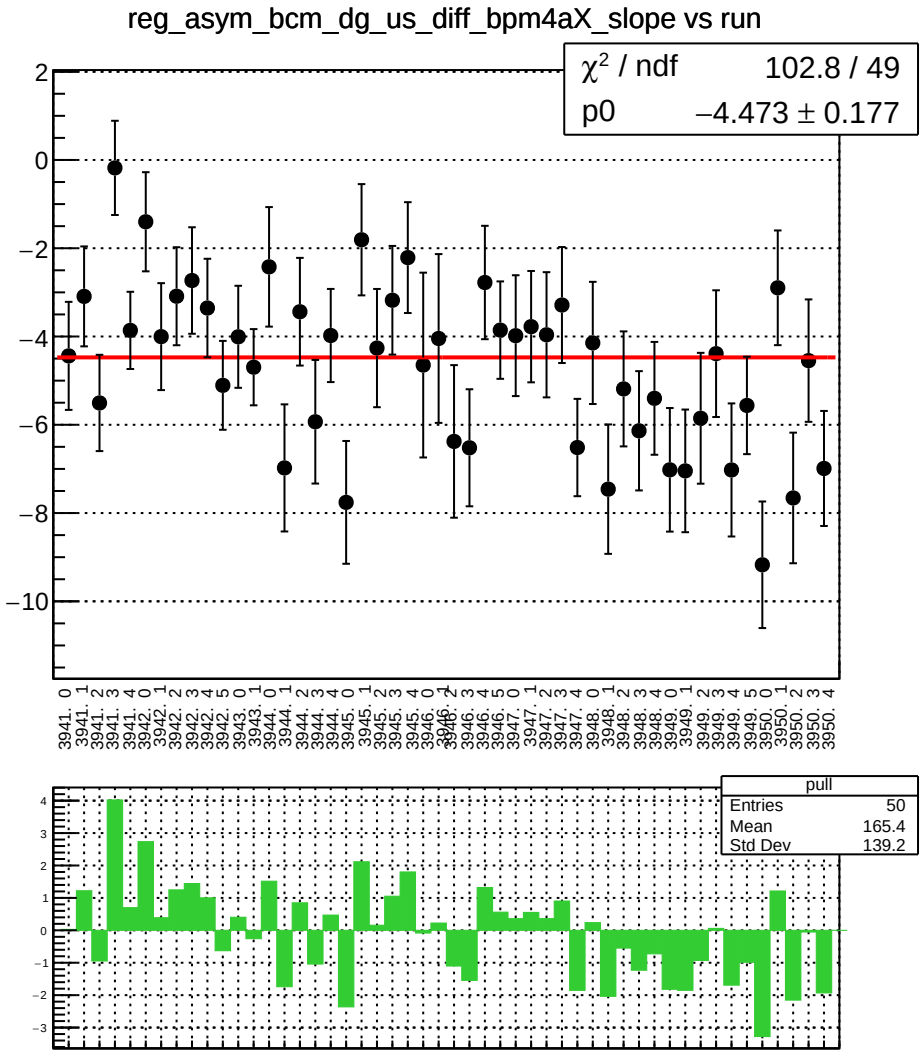

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 78.1 / 49
p0 1.469 ± 0.02681
pull
Entries 50
Mean 133
Std Dev 107.4

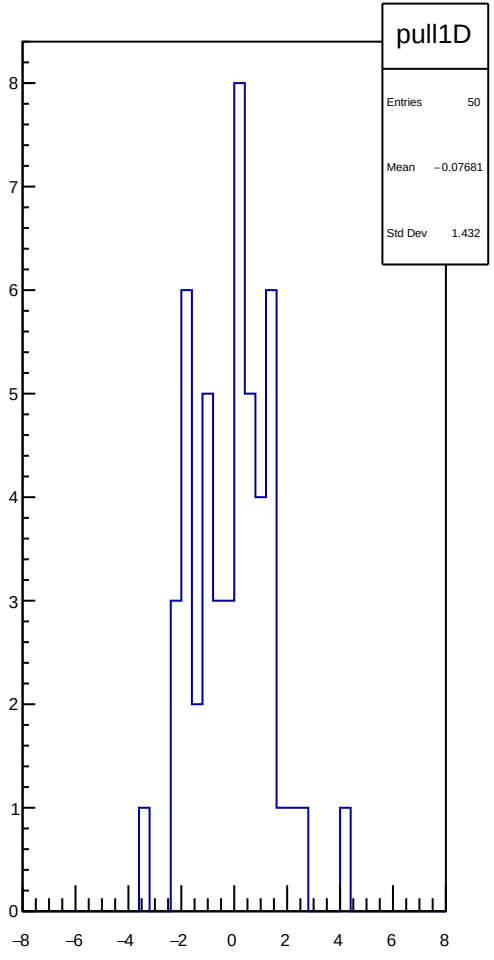

pull1D
Entries 50
Mean 0.08853
Std Dev 1.247

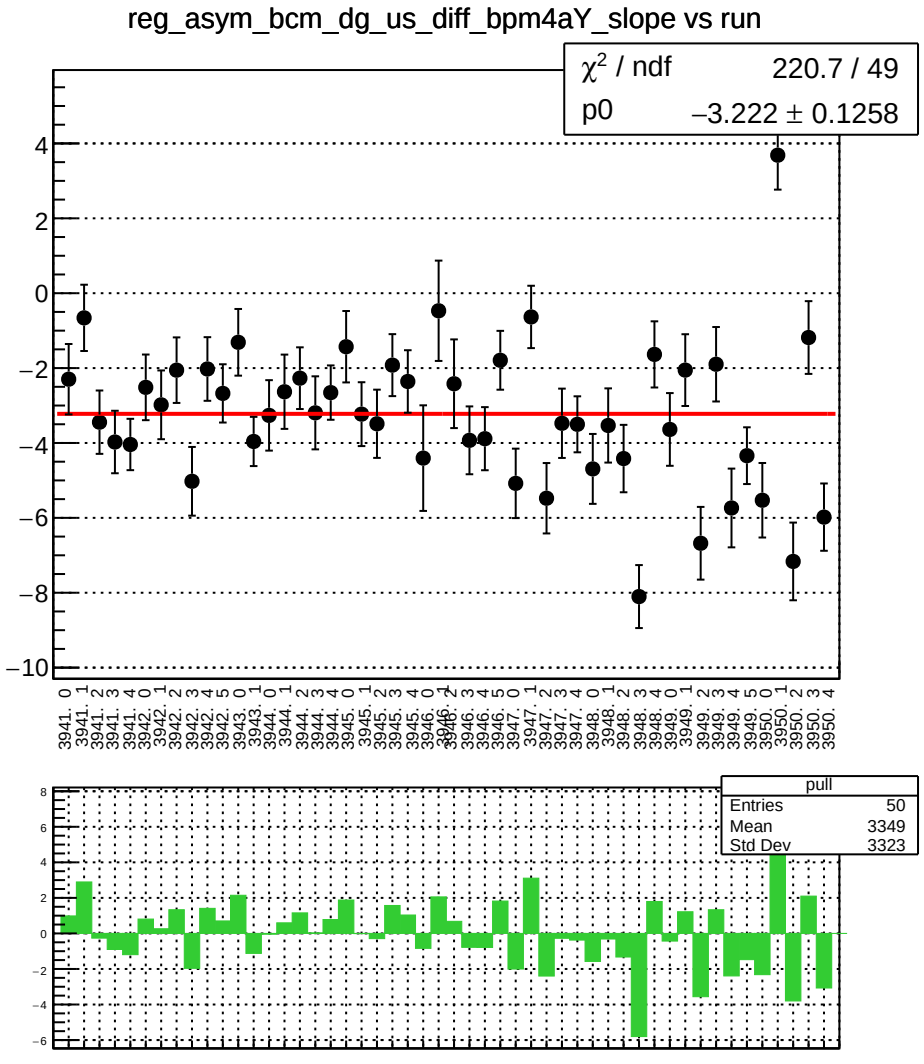

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 230.7 / 49
p0 5.682 ± 0.1983
pull
Entries 50
Mean −385.6
Std Dev 410.9

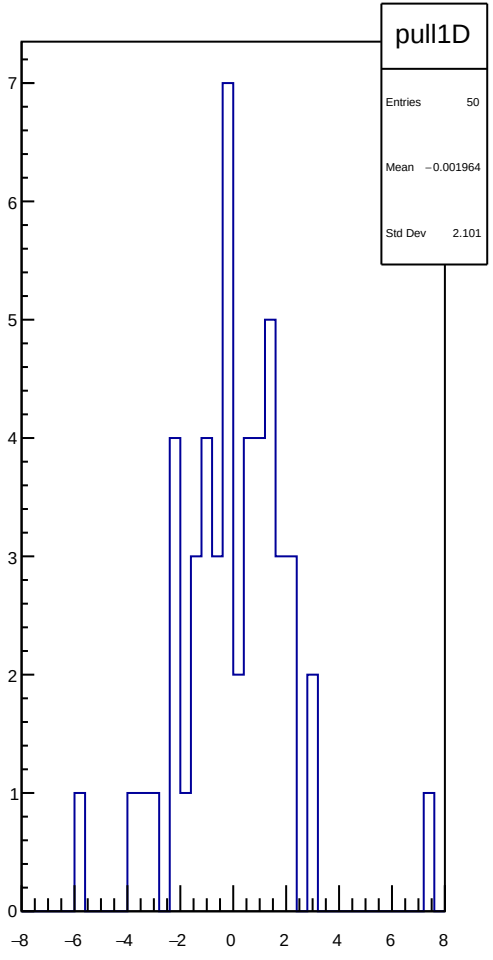

pull1D
Entries 50
Mean 0.1568
Std Dev 1.798

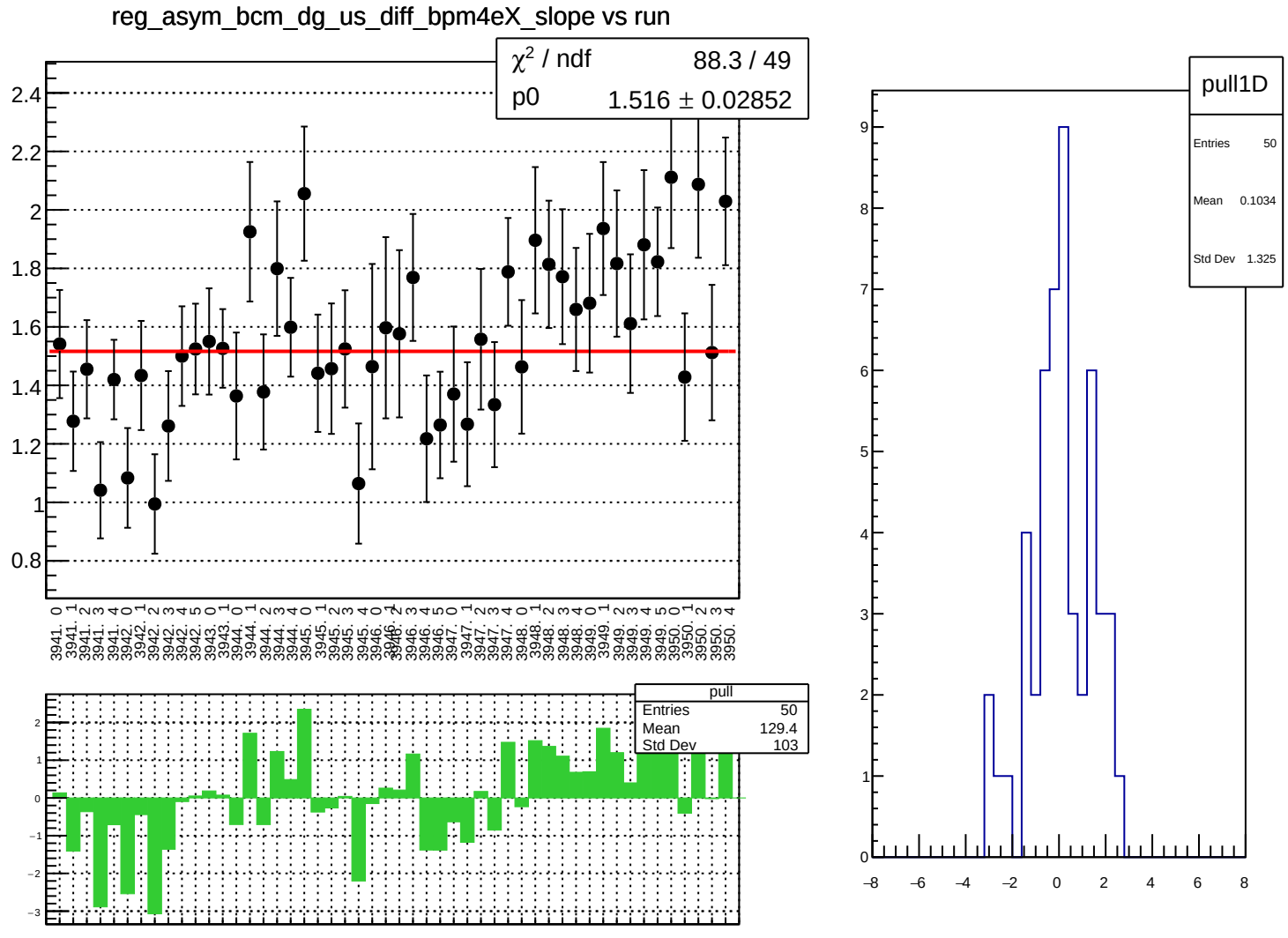

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 64.88 / 49
p0 1.805 ± 0.03362
pull
Entries 50
Mean 3097
Std Dev 3074
pull1D
Entries 50
Mean −0.001726
Std Dev 1.139

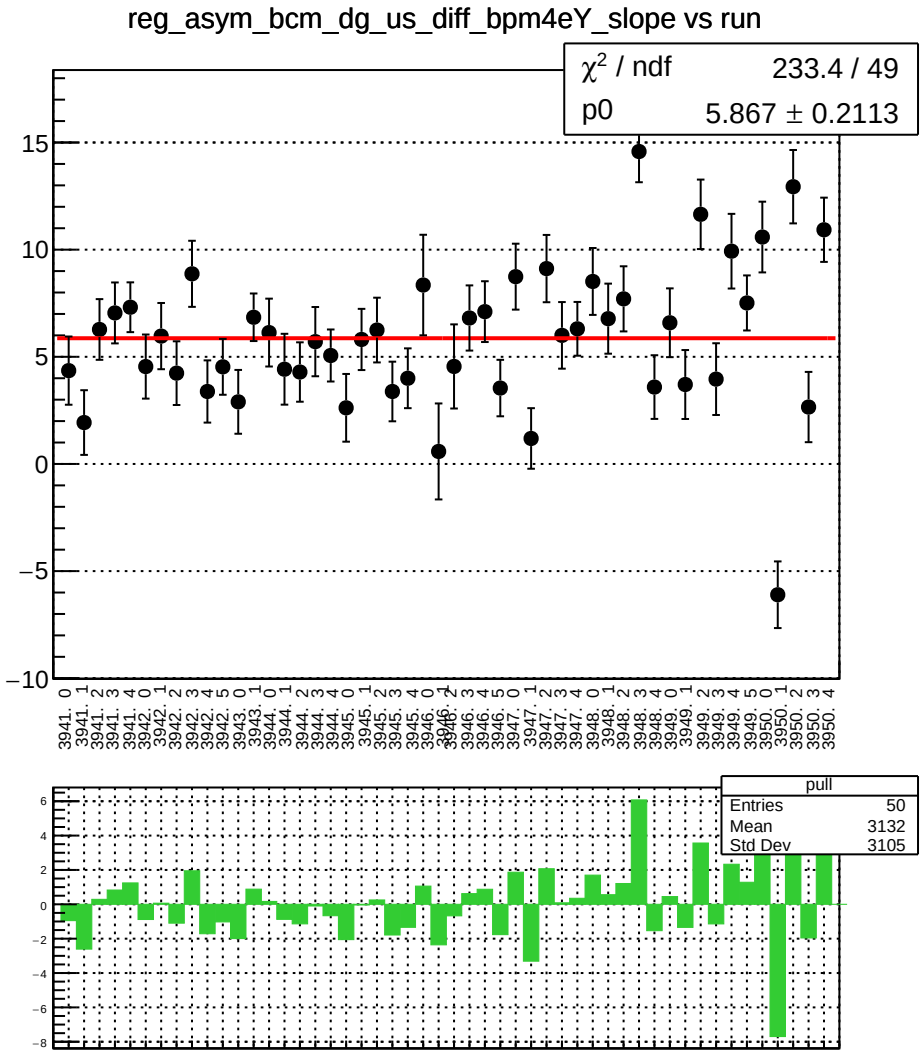

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 102.8 / 49
p0 −4.473 ± 0.177
pull
Entries 50
Mean 165.4
Std Dev 139.2

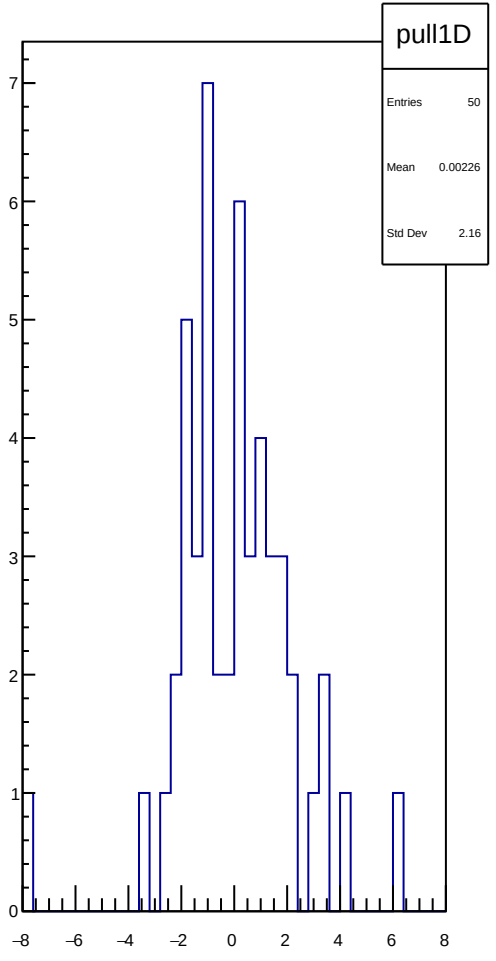

pull1D
Entries 50
Mean −0.07681
Std Dev 1.432

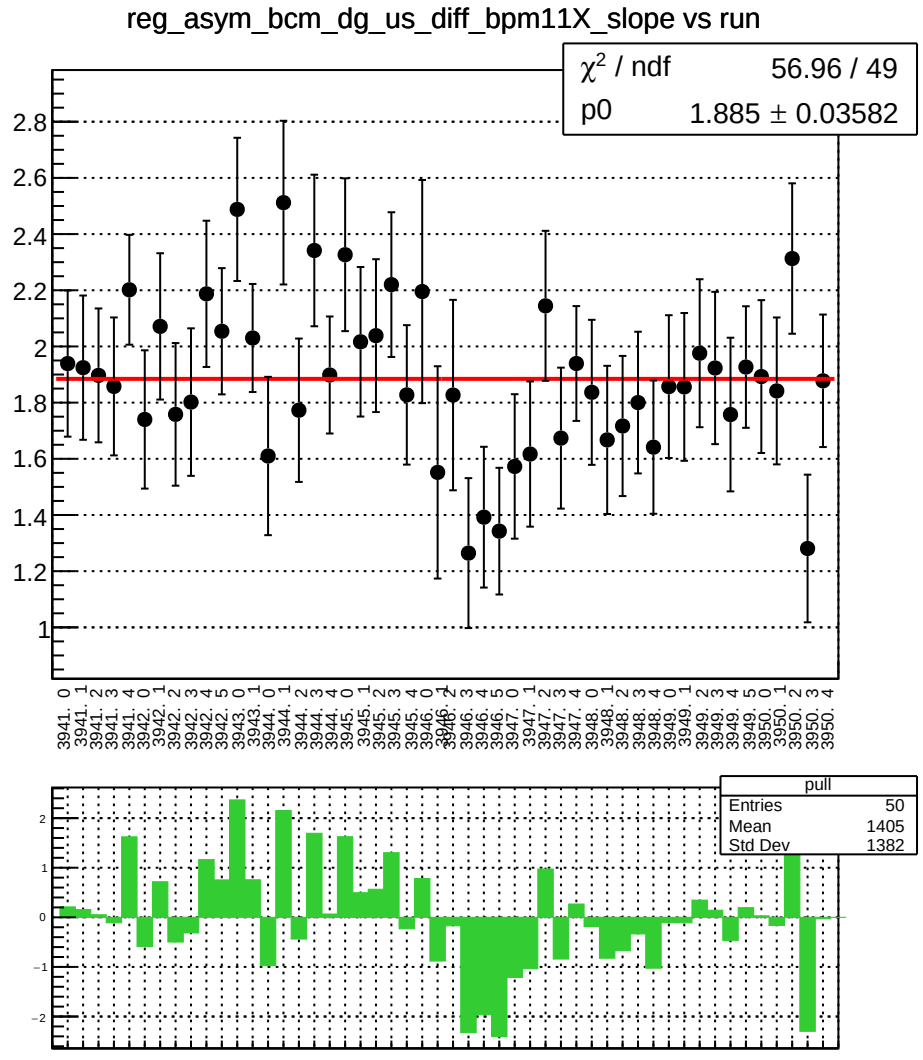

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 220.7 / 49
p0 −3.222 ± 0.1258
pull
Entries 50
Mean 3349
Std Dev 3323

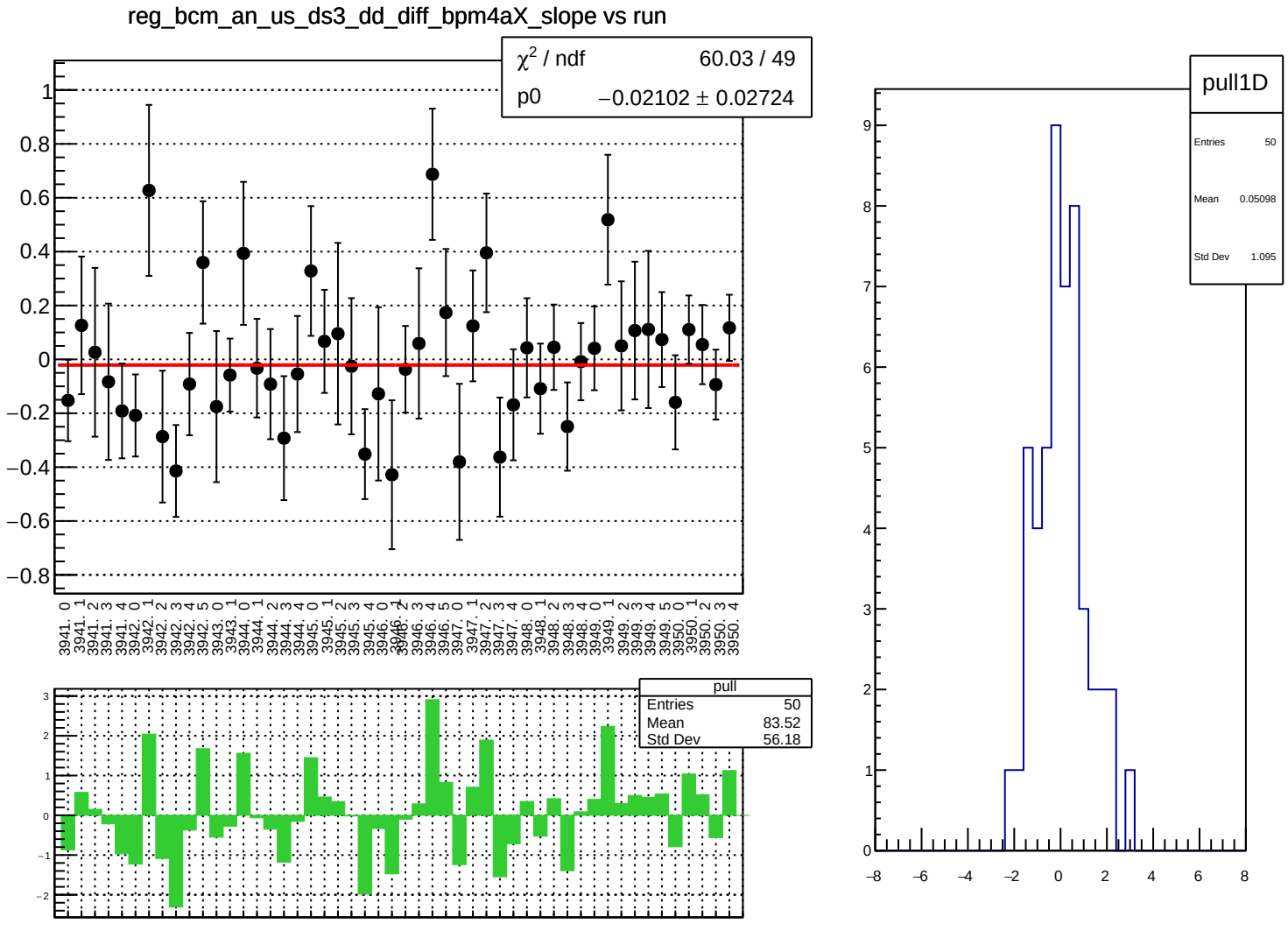

pull1D
Entries 50
Mean −0.001964
Std Dev 2.101

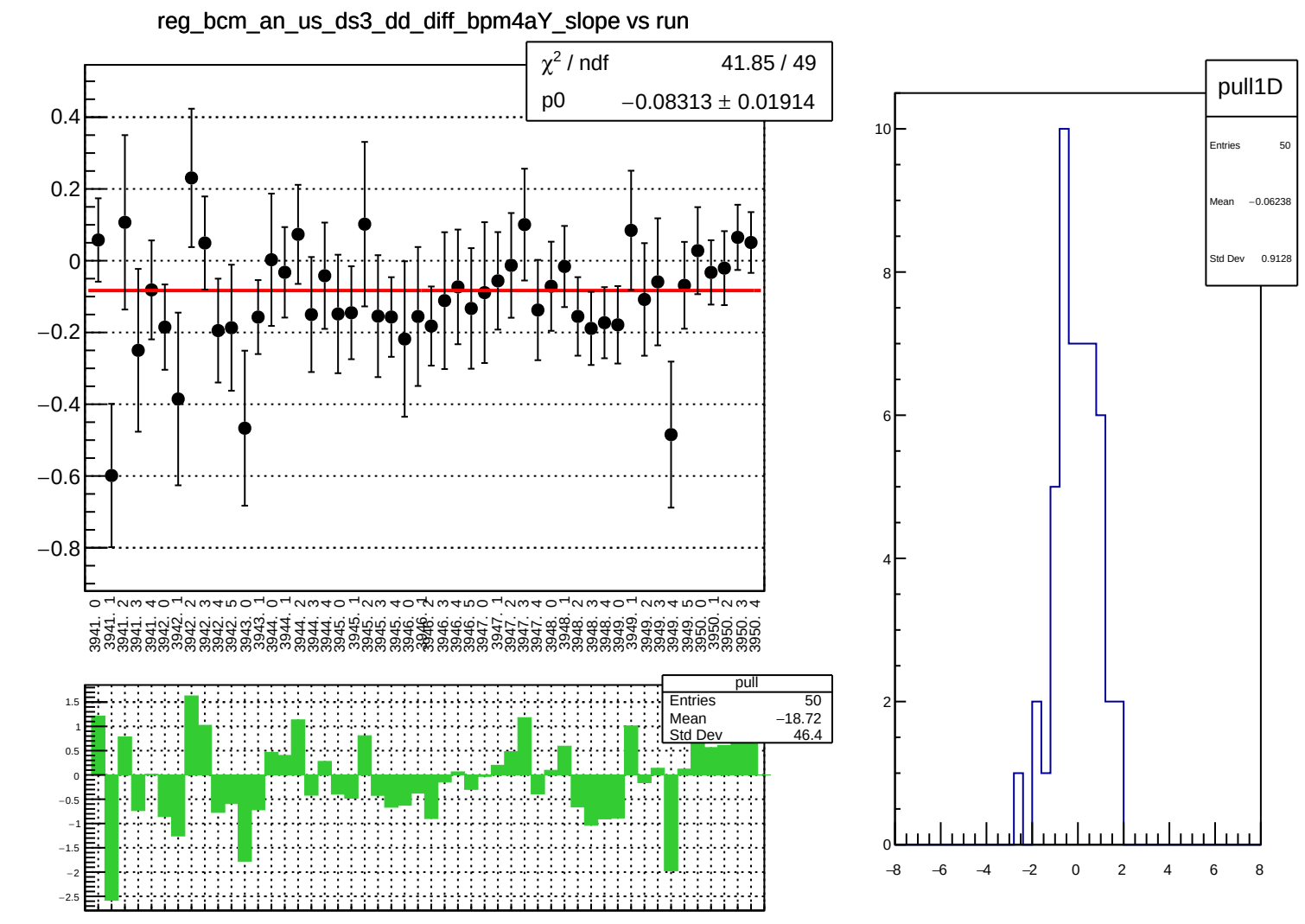

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 88.3 / 49
p0 1.516 ± 0.02852
pull
Entries 50
Mean 129.4
Std Dev 103
pull1D
Entries 50
Mean 0.1034
Std Dev 1.325

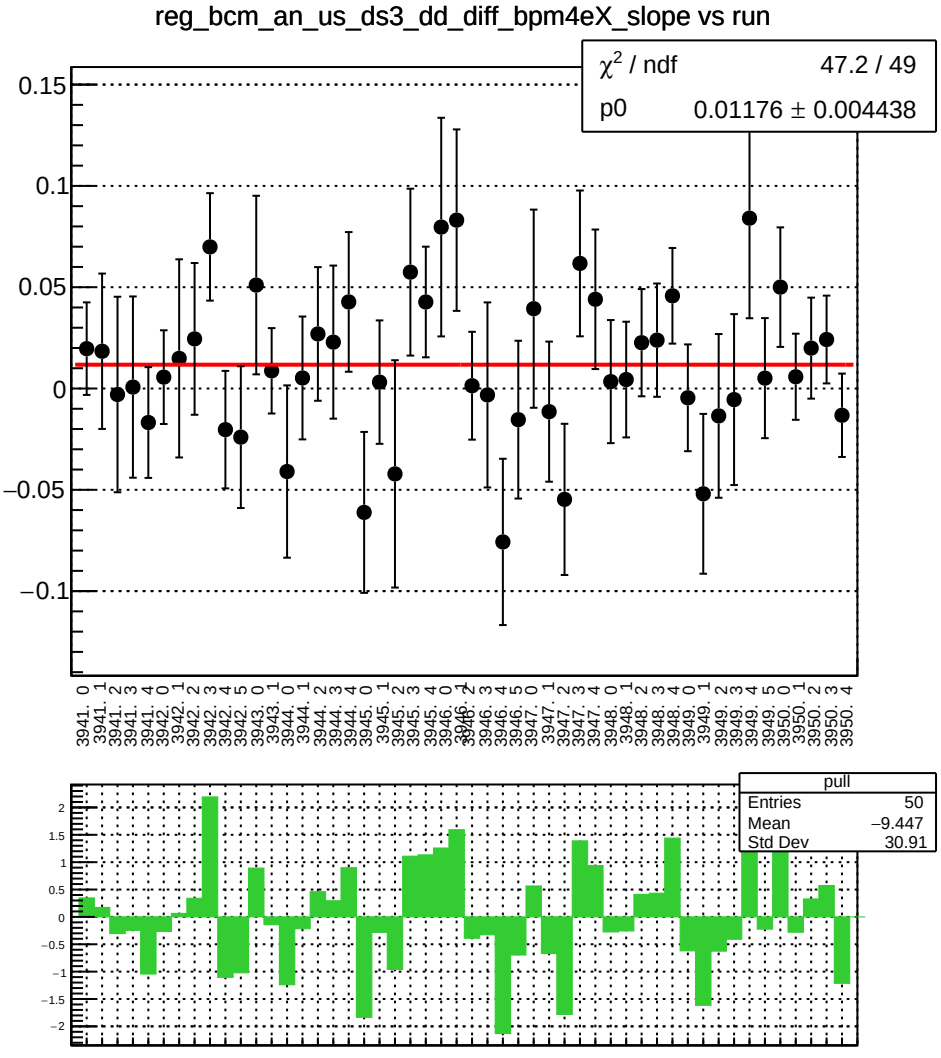

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 233.4 / 49
p0 5.867 ± 0.2113
pull
Entries 50
Mean 3132
Std Dev 3105

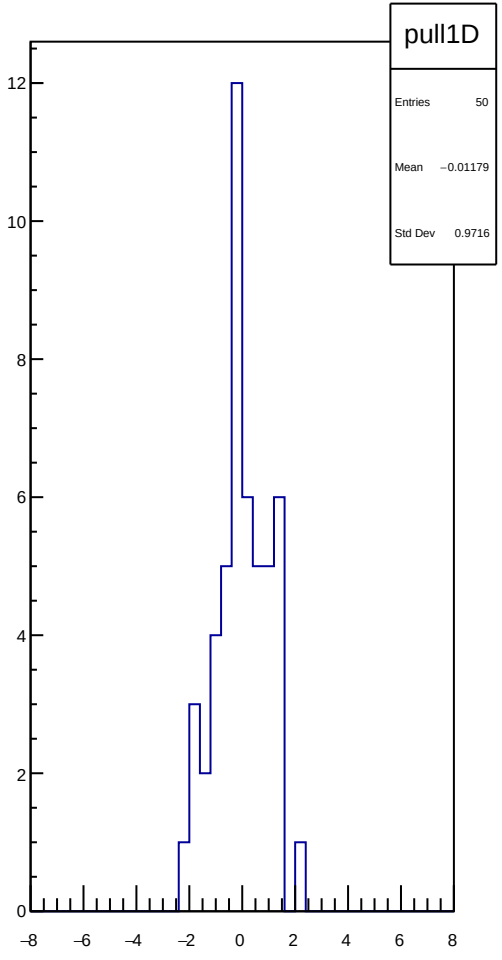

pull1D
Entries 50
Mean 0.00226
Std Dev 2.16

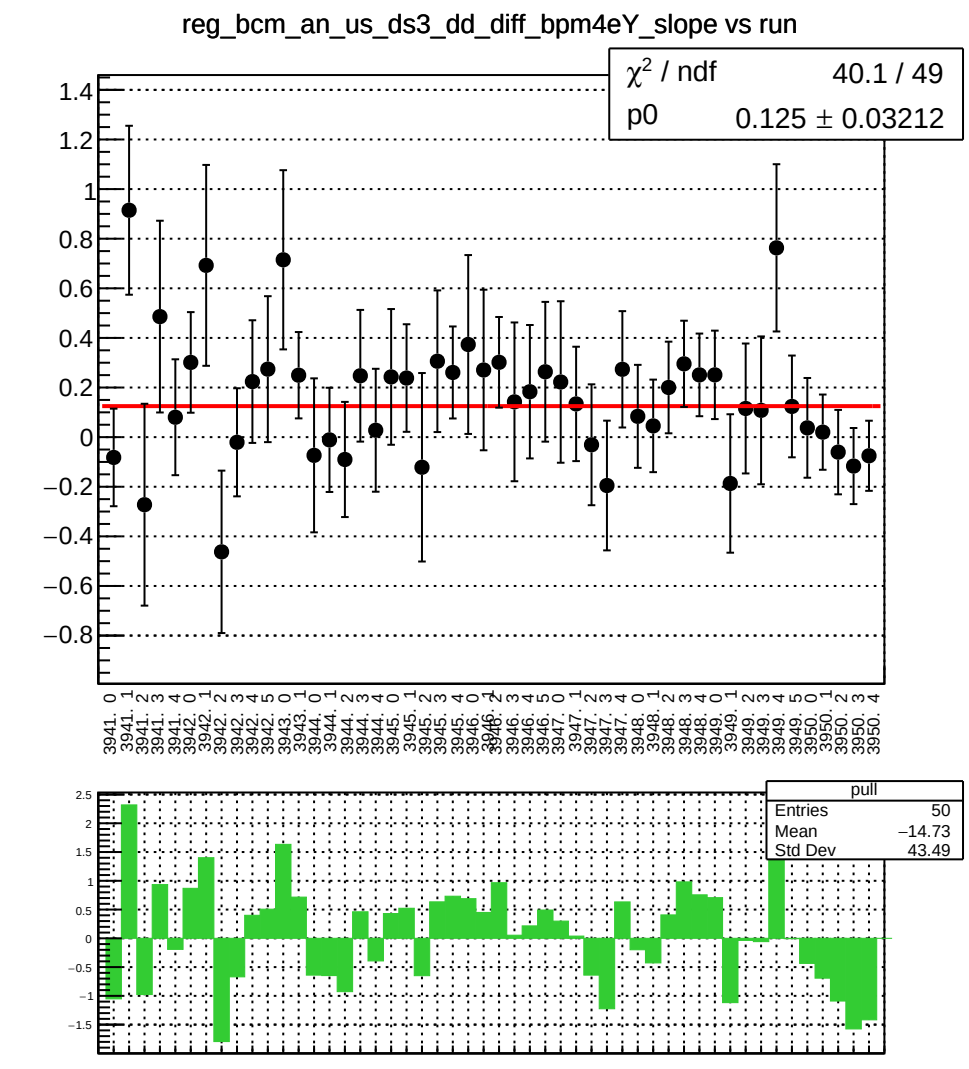

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 56.96 / 49
p0 1.885 ± 0.03582
pull
Entries 50
Mean 1405
Std Dev 1382
pull1D
Entries 50
Mean −0.003265
Std Dev 1.067

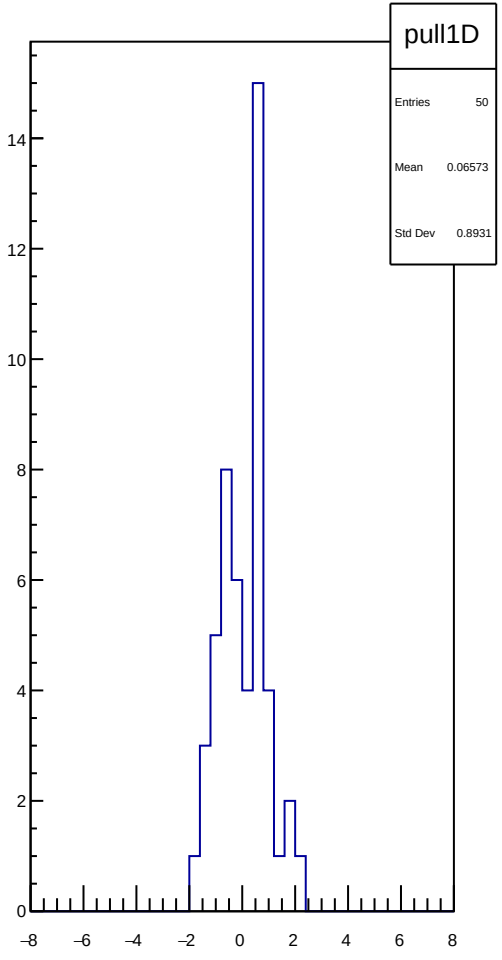

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 60.03 / 49
p0 −0.02102 ± 0.02724
pull
Entries 50
Mean 83.52
Std Dev 56.18
pull1D
Entries 50
Mean 0.05098
Std Dev 1.095

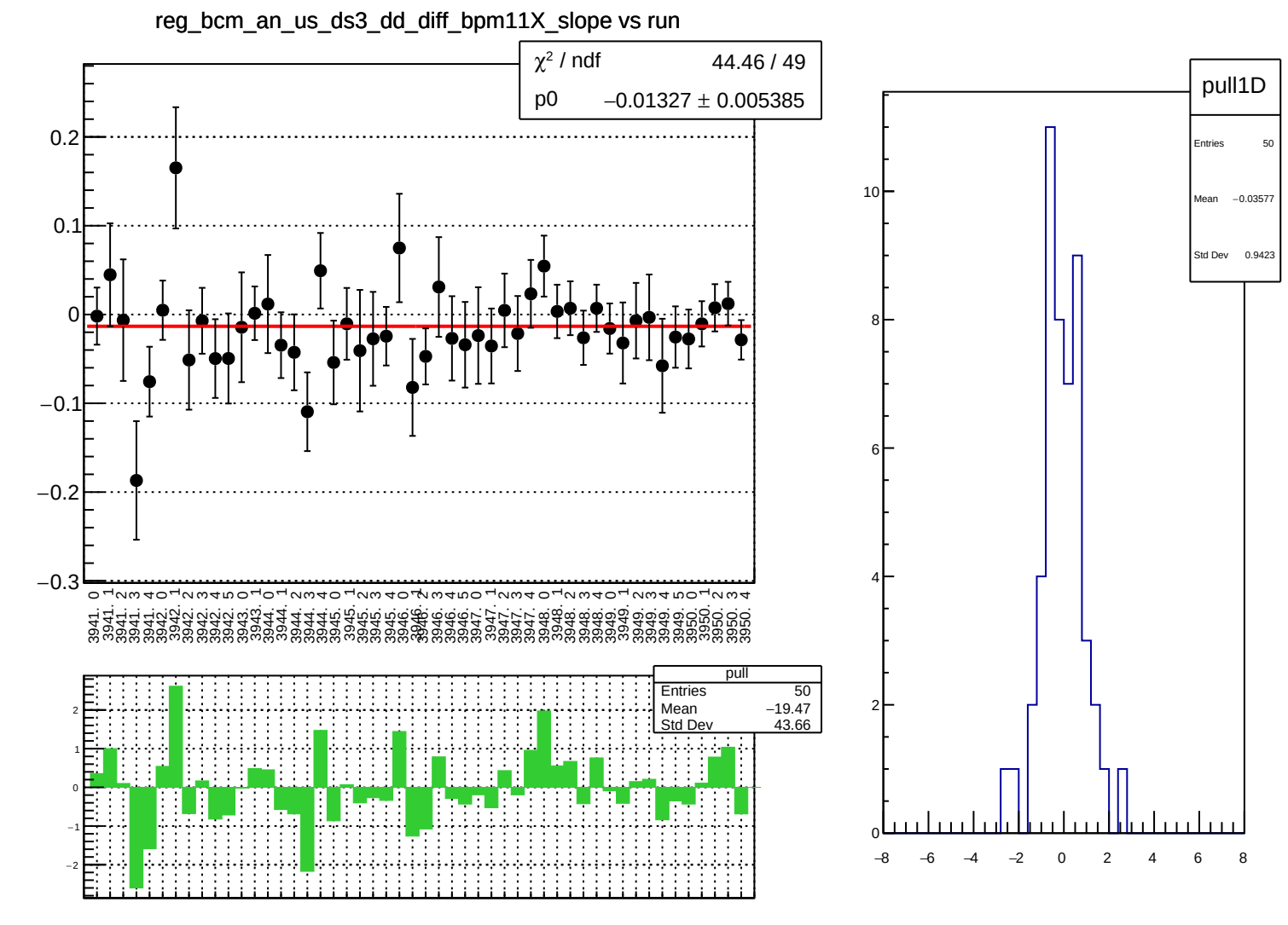

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.85 / 49
p0 −0.08313 ± 0.01914
pull
Entries 50
Mean −18.72
Std Dev 46.4
pull1D
Entries 50
Mean −0.06238
Std Dev 0.9128

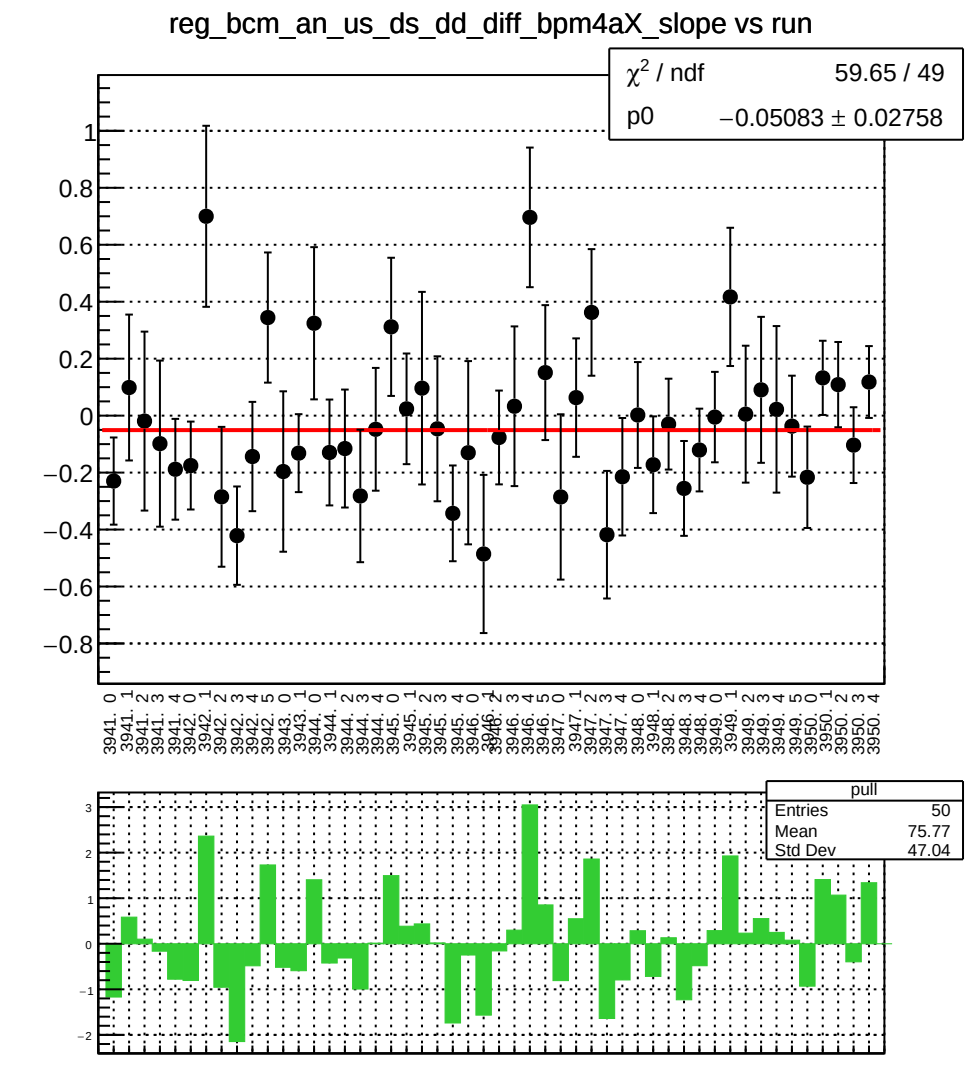

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.2 / 49
p0 0.01176 ± 0.004438
pull
Entries 50
Mean −9.447
Std Dev 30.91

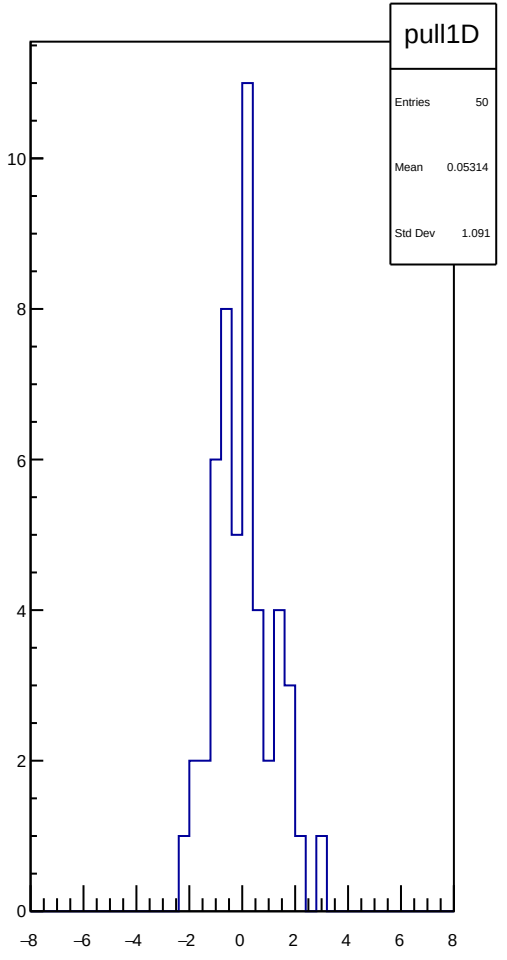

pull1D
Entries 50
Mean −0.01179
Std Dev 0.9716

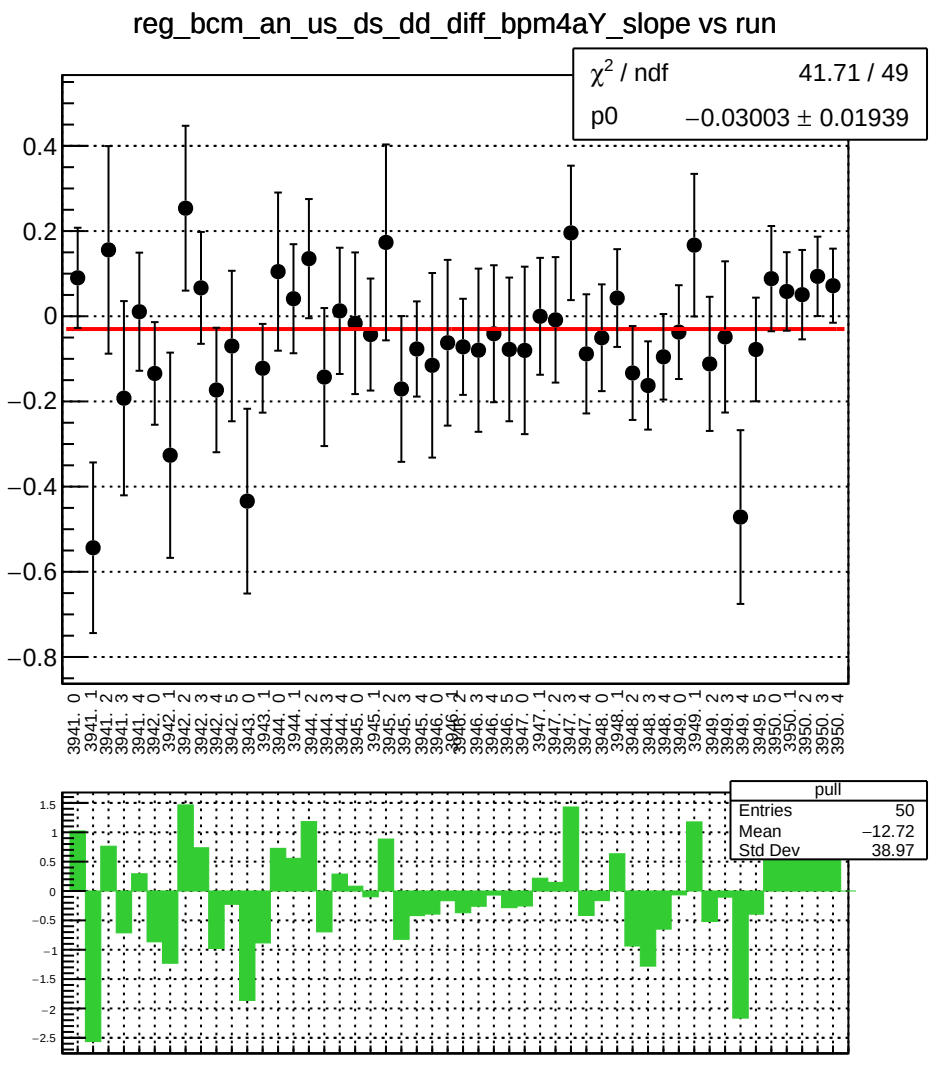

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.1 / 49
p0 0.125 ± 0.03212
pull
Entries 50
Mean −14.73
Std Dev 43.49

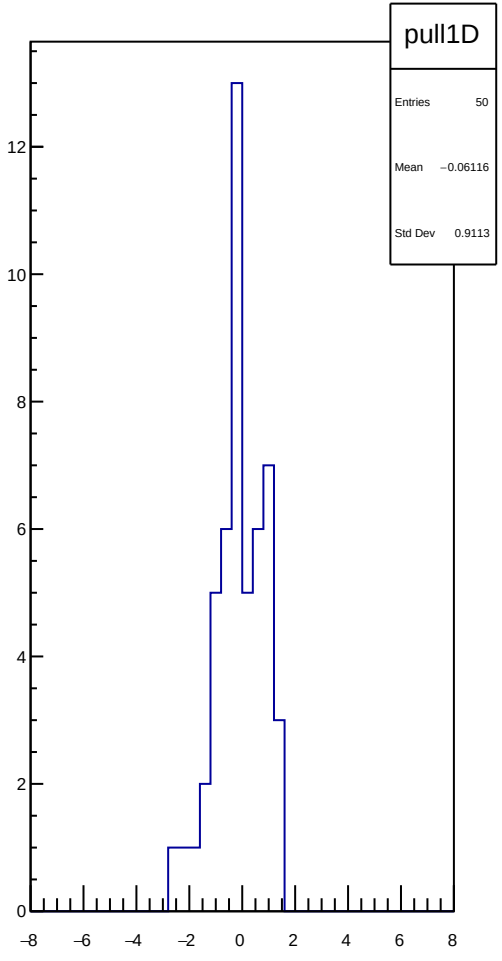

pull1D
Entries 50
Mean 0.06573
Std Dev 0.8931

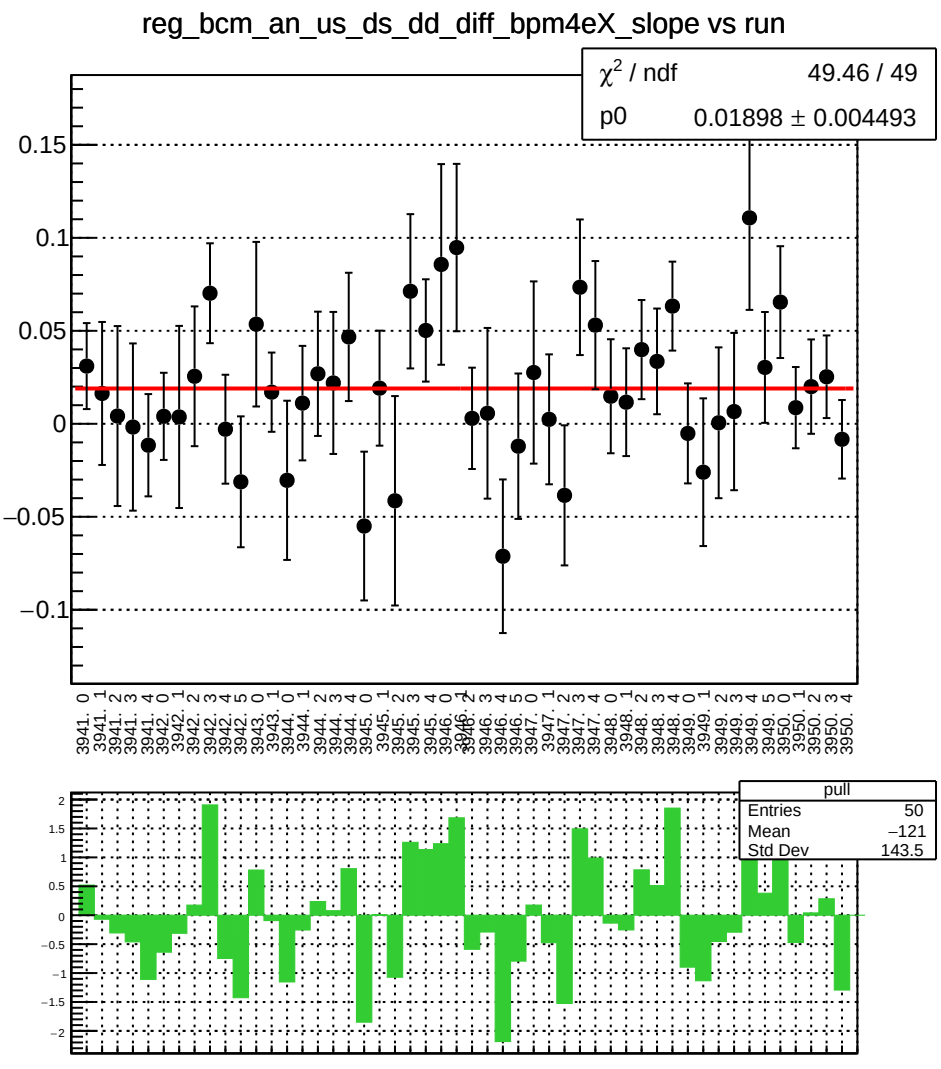

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 44.46 / 49
p0 −0.01327 ± 0.005385
pull
Entries 50
Mean −19.47
Std Dev 43.66
pull1D
Entries 50
Mean −0.03577
Std Dev 0.9423

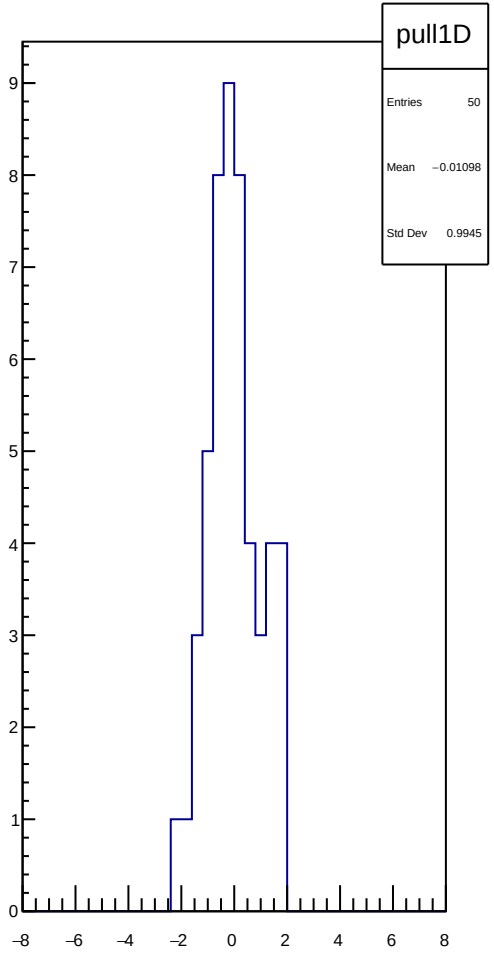

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 59.65 / 49
p0 −0.05083 ± 0.02758
pull
Entries 50
Mean 75.77
Std Dev 47.04

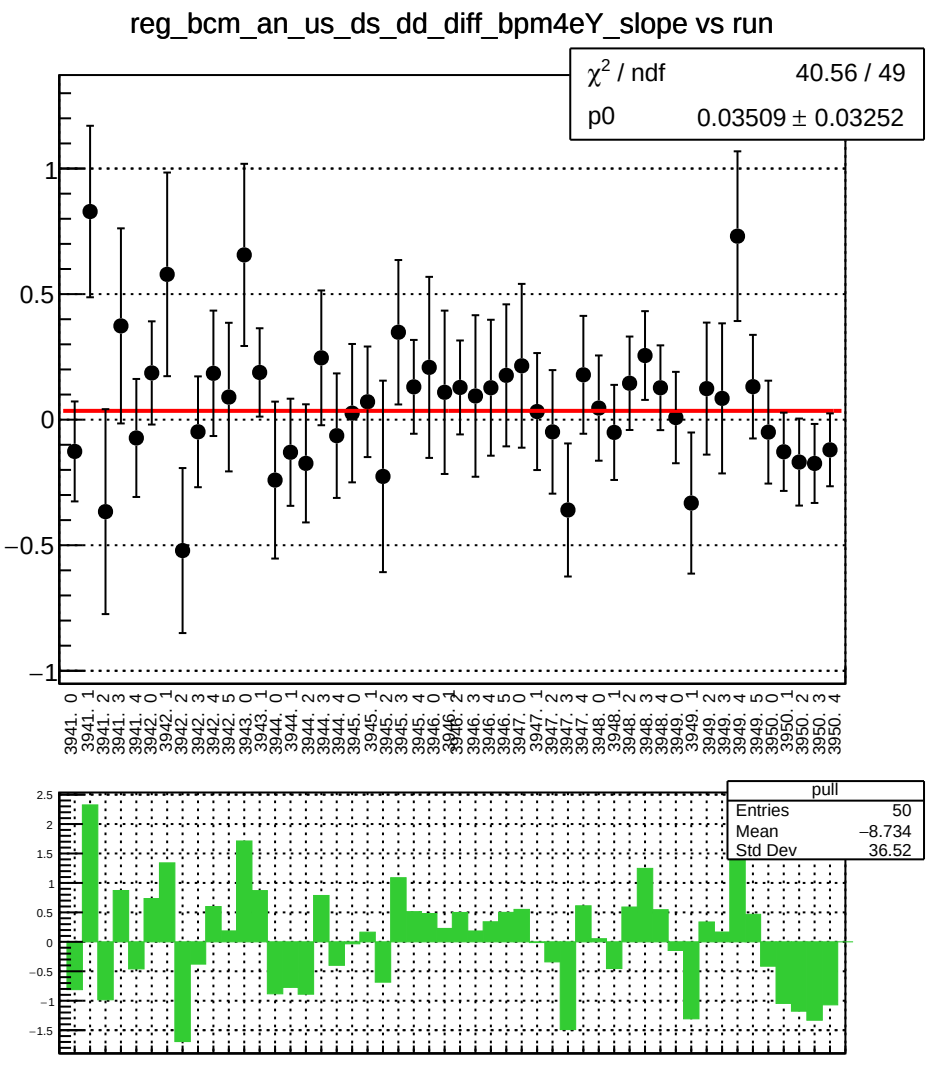

pull1D
Entries 50
Mean 0.05314
Std Dev 1.091

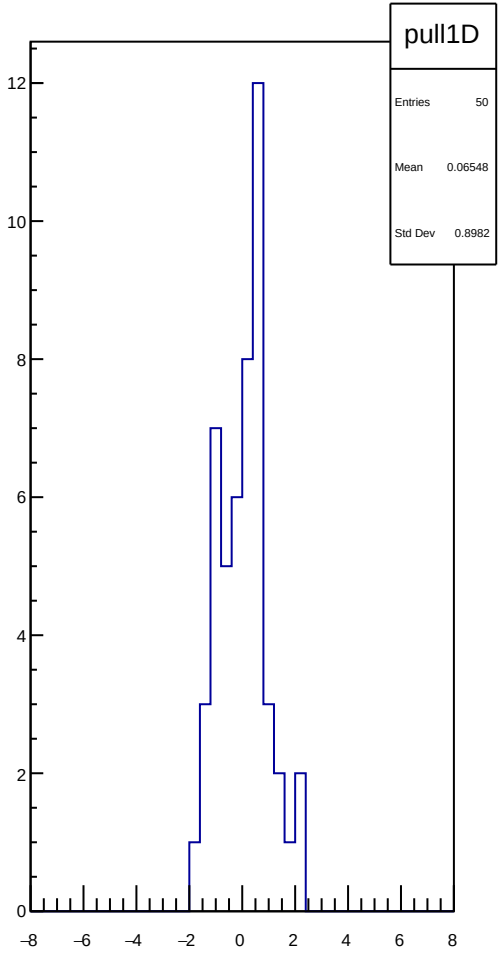

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.71 / 49
p0 −0.03003 ± 0.01939
pull
Entries 50
Mean −12.72
Std Dev 38.97

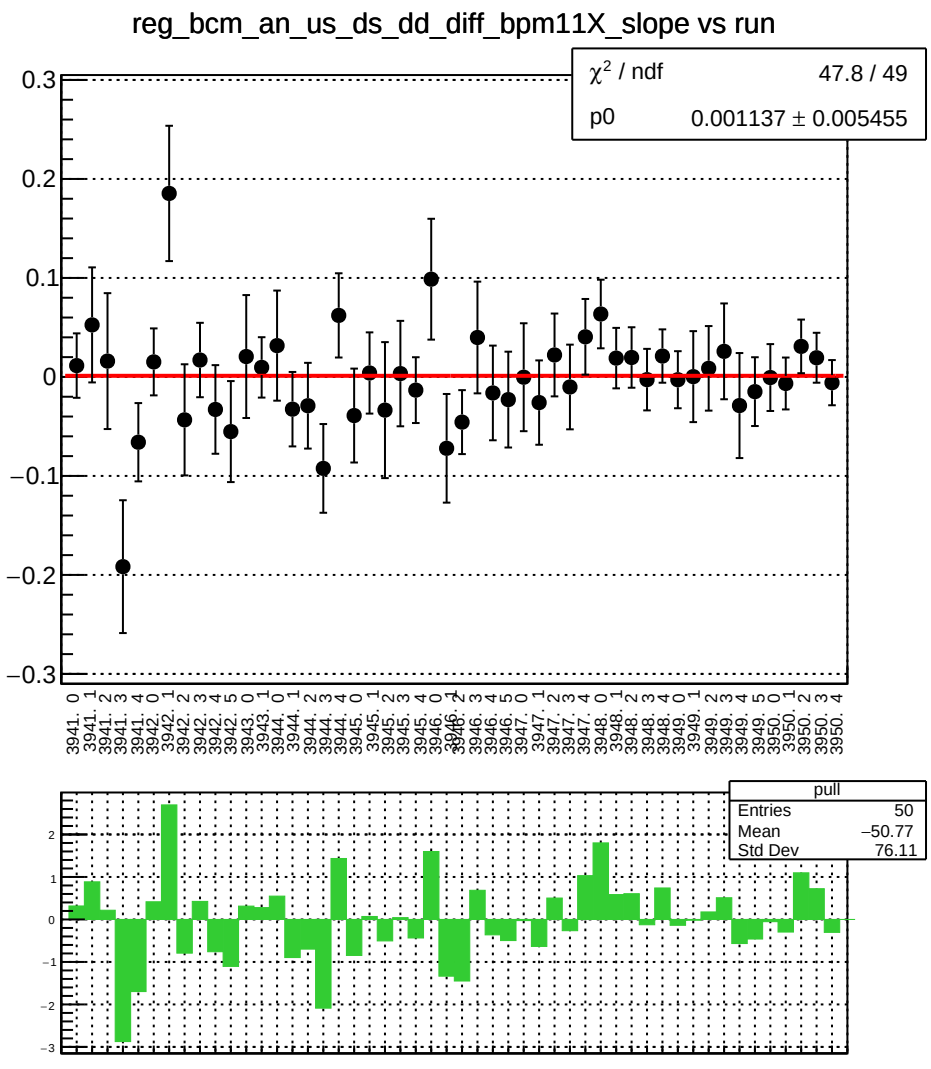

pull1D
Entries 50
Mean −0.06116
Std Dev 0.9113

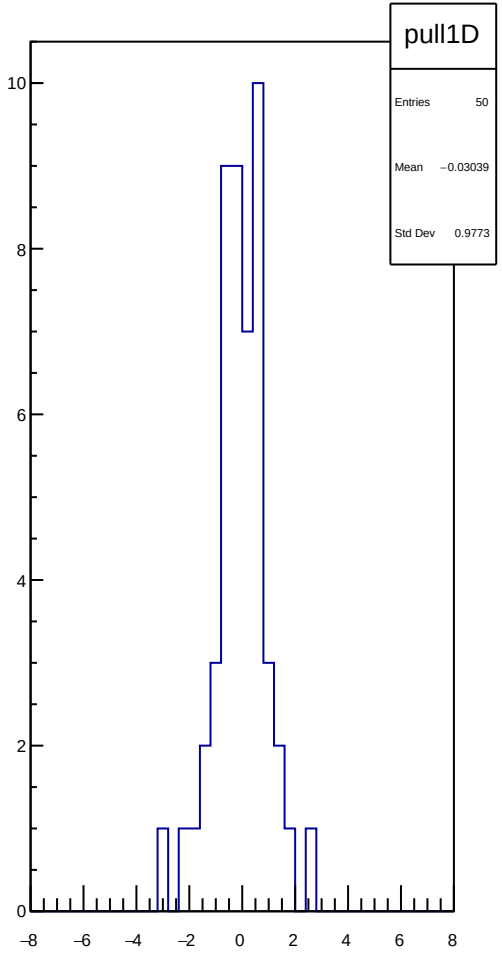

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.46 / 49
p0 0.01898 ± 0.004493
pull
Entries 50
Mean −121
Std Dev 143.5

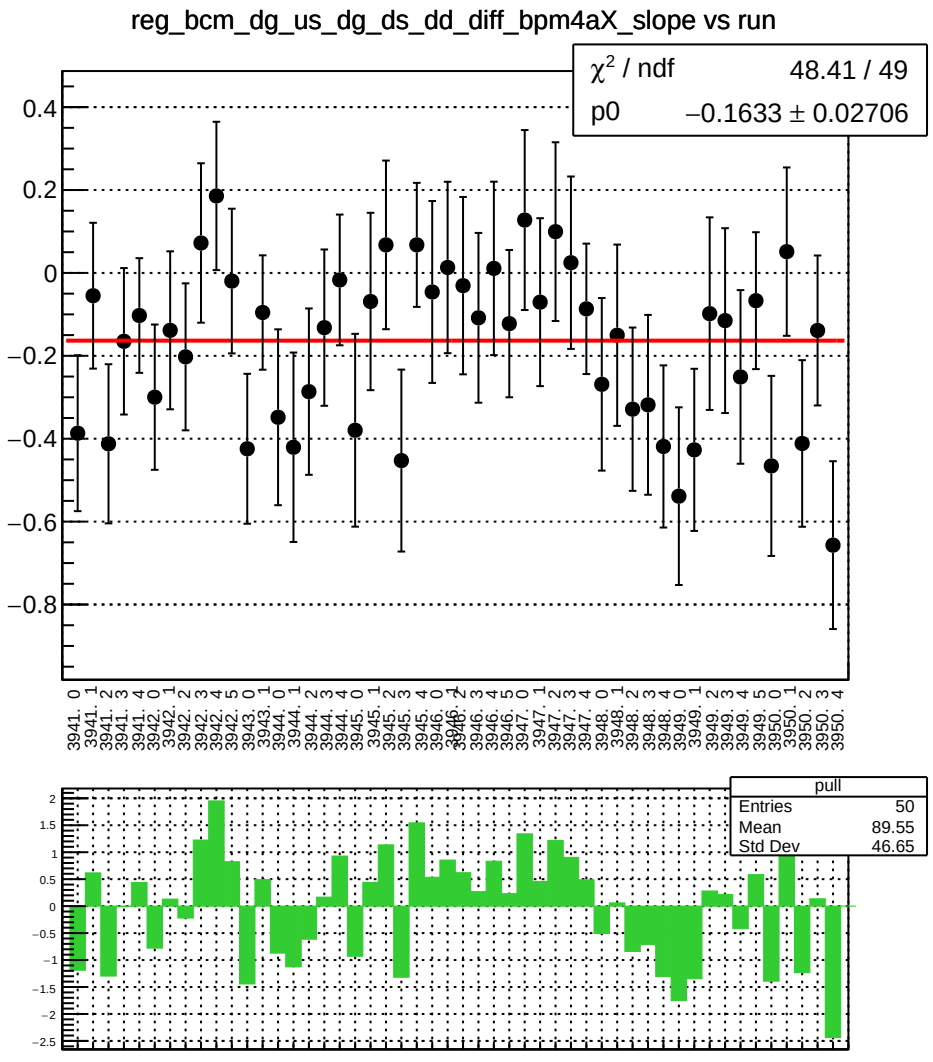

pull1D
Entries 50
Mean −0.01098
Std Dev 0.9945

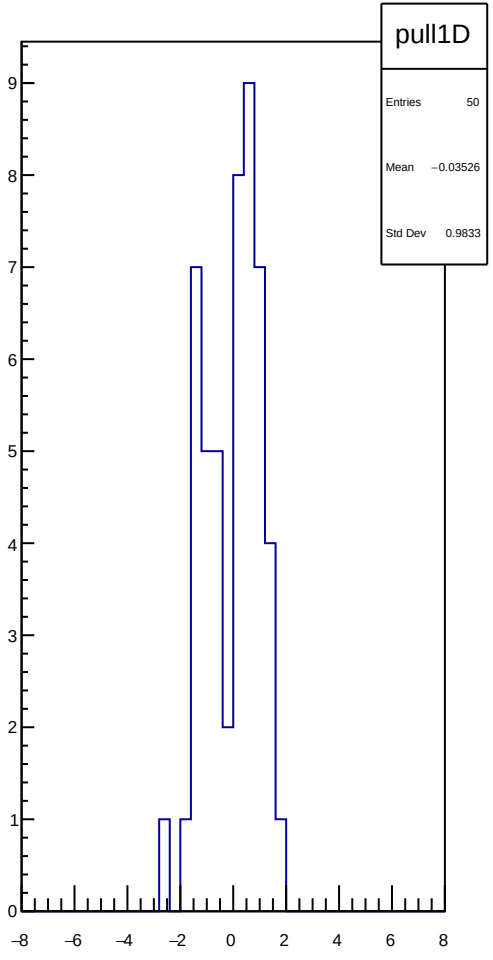

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.56 / 49
p0 0.03509 ± 0.03252
pull
Entries 50
Mean −8.734
Std Dev 36.52

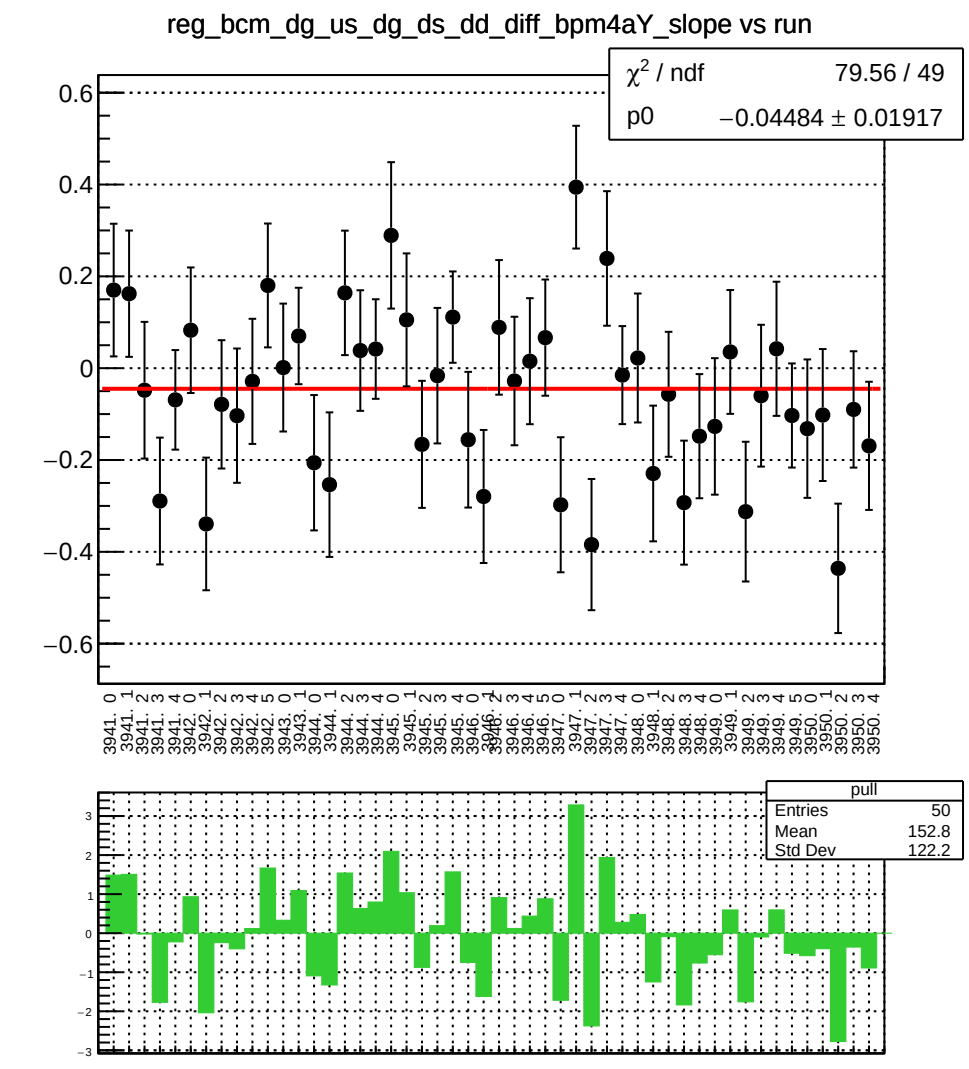

pull1D
Entries 50
Mean 0.06548
Std Dev 0.8982

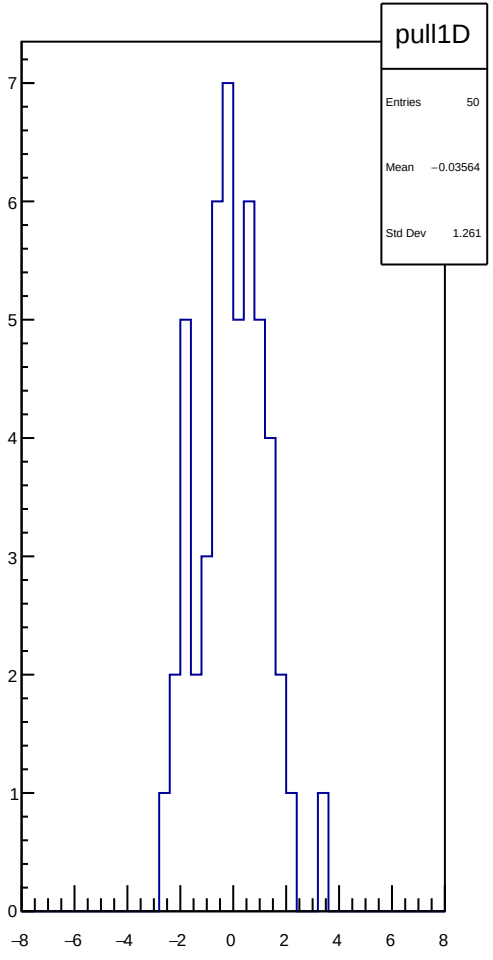

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 47.8 / 49
p0 0.001137 ± 0.005455
pull
Entries 50
Mean −50.77
Std Dev 76.11

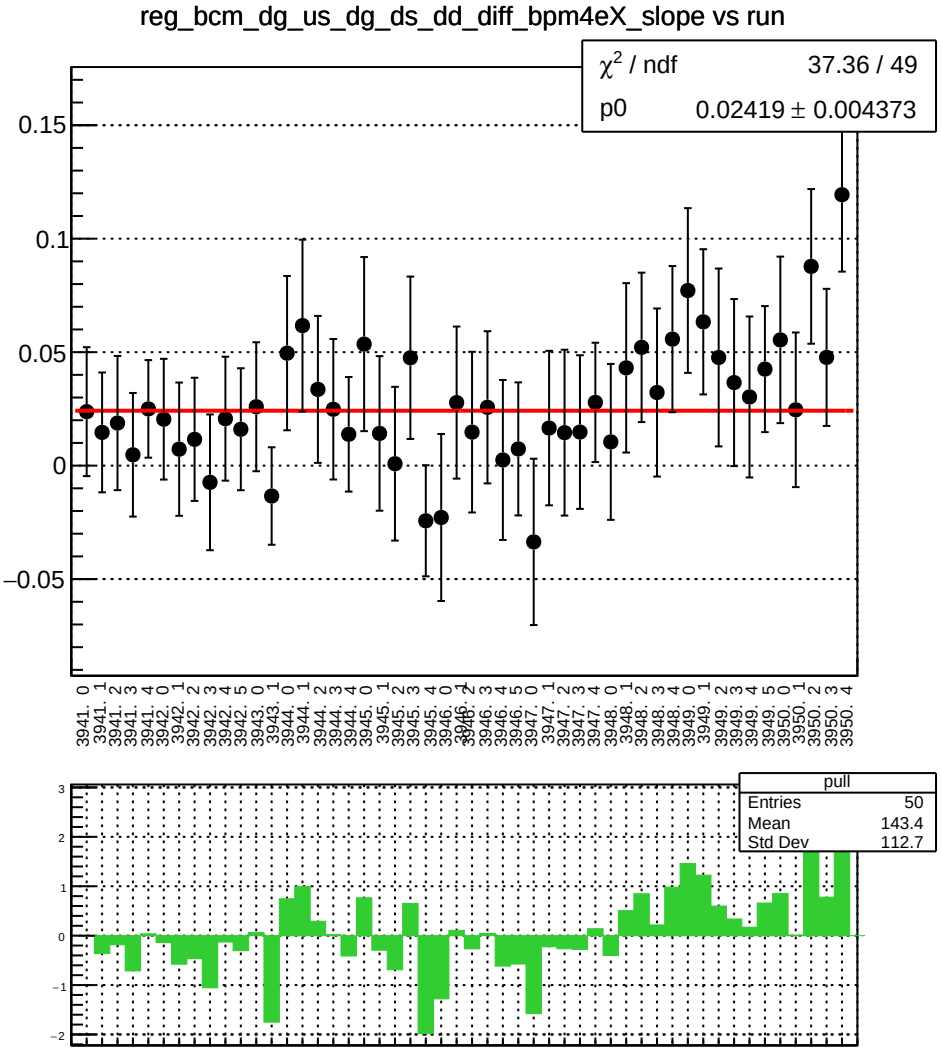

pull1D
Entries 50
Mean −0.03039
Std Dev 0.9773

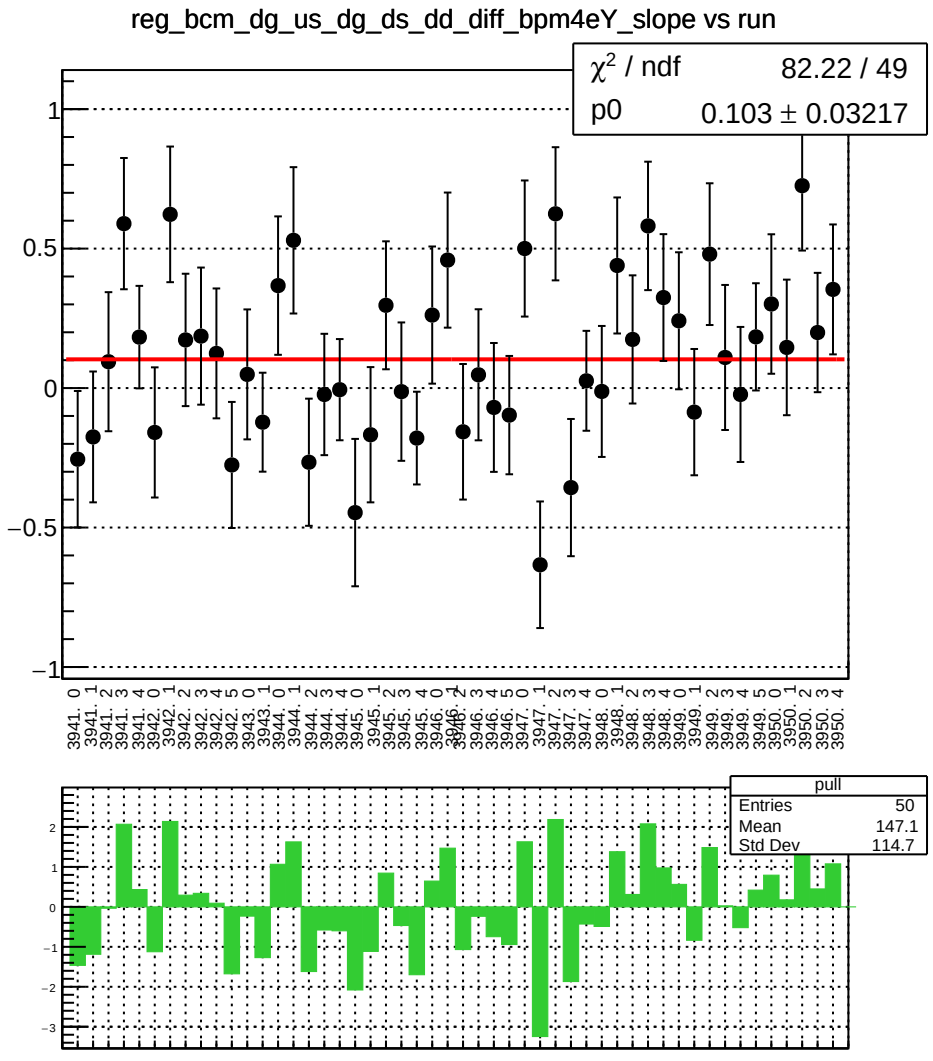

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.41 / 49
p0 −0.1633 ± 0.02706
pull
Entries 50
Mean 89.55
Std Dev 46.65

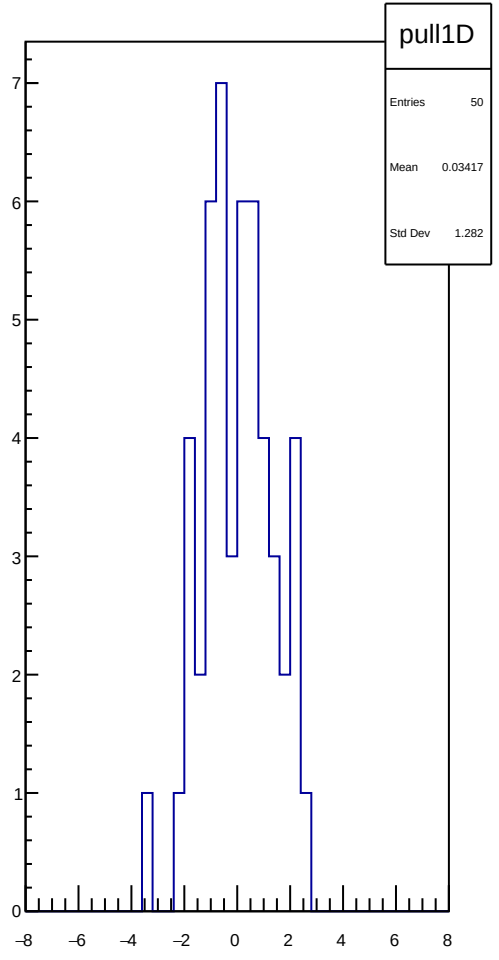

pull1D
Entries 50
Mean −0.03526
Std Dev 0.9833

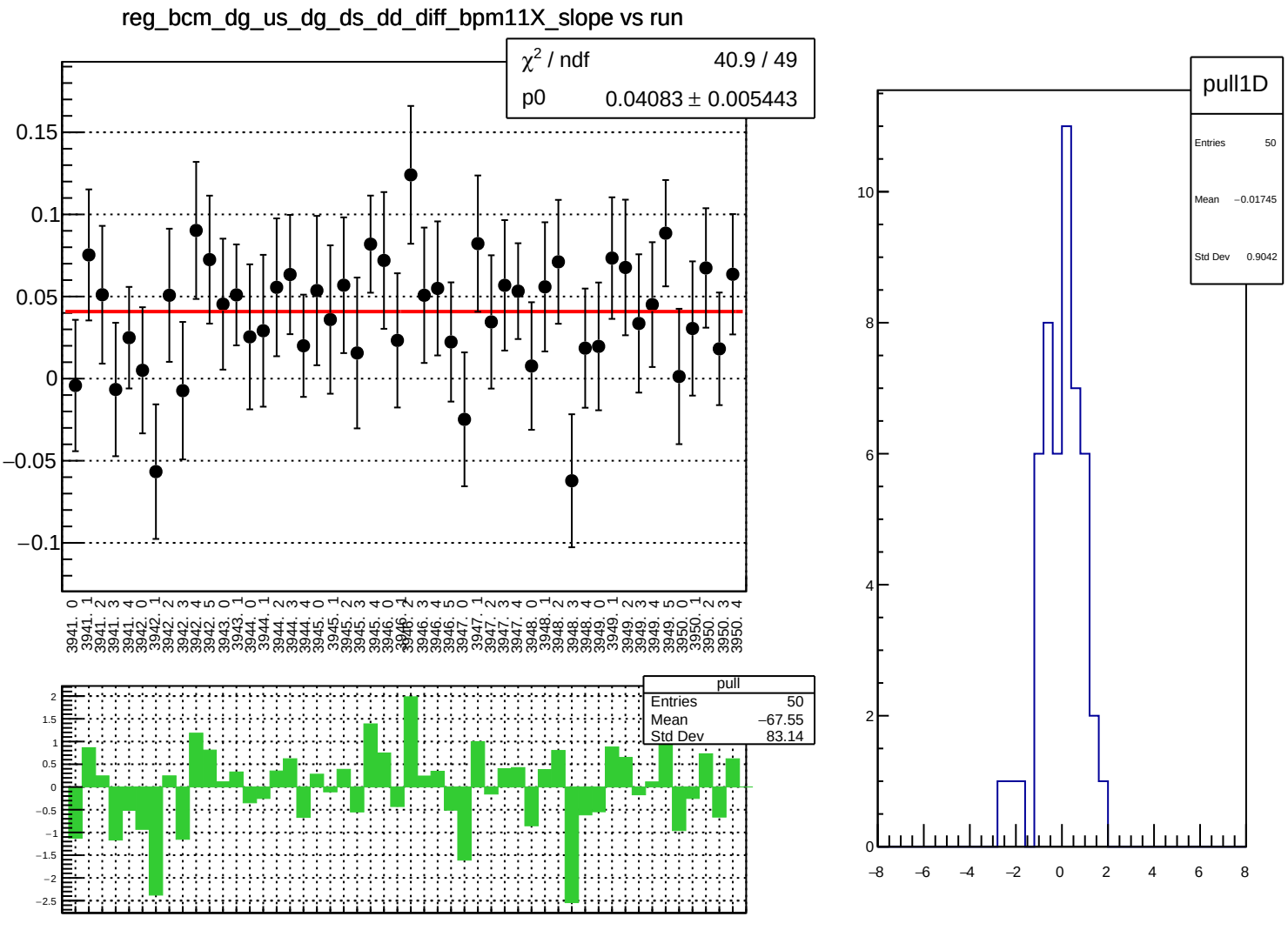

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.56 / 49
p0 −0.04484 ± 0.01917
pull
Entries 50
Mean 152.8
Std Dev 122.2

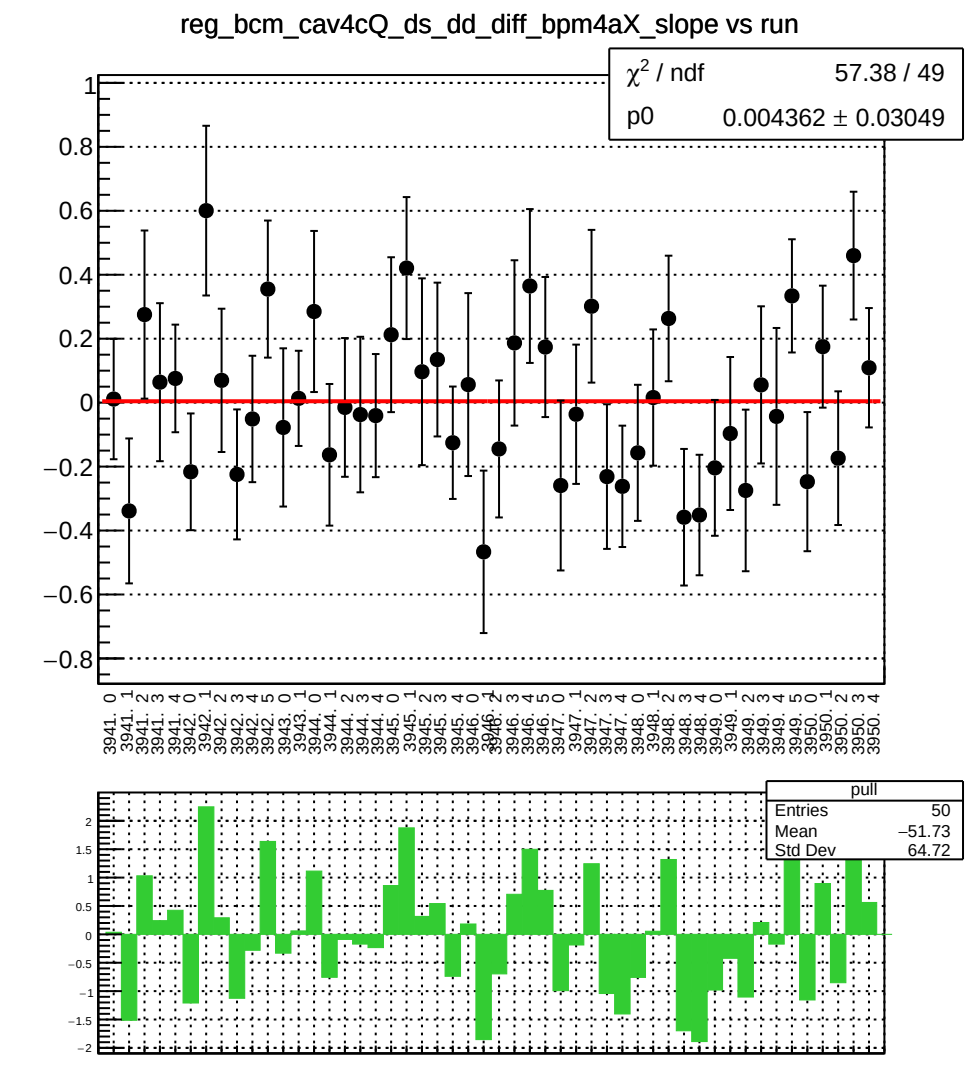

pull1D
Entries 50
Mean −0.03564
Std Dev 1.261

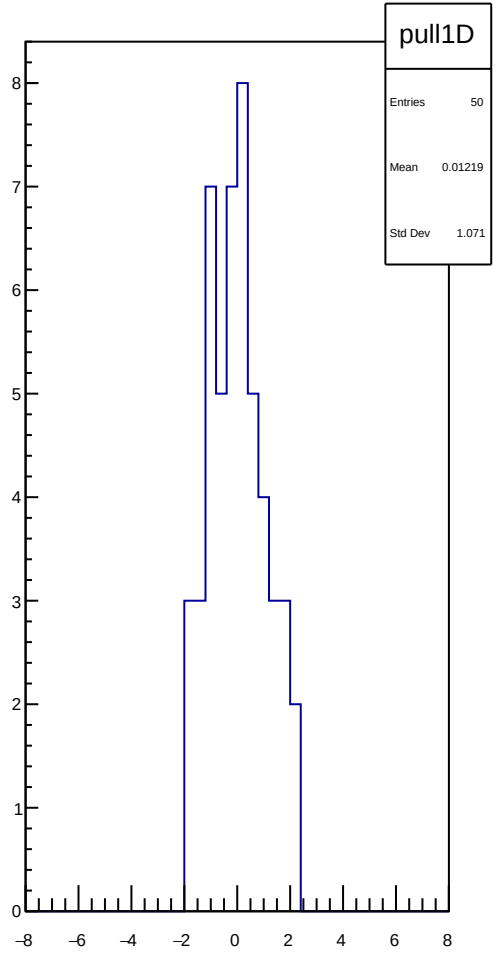

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.36 / 49
p0 0.02419 ± 0.004373
0.15
0.1
0.05
0
−0.05
pull
Entries 50
Mean 143.4
Std Dev 112.7
pull1D
Entries 50
Mean 0.0525
Std Dev 0.8628

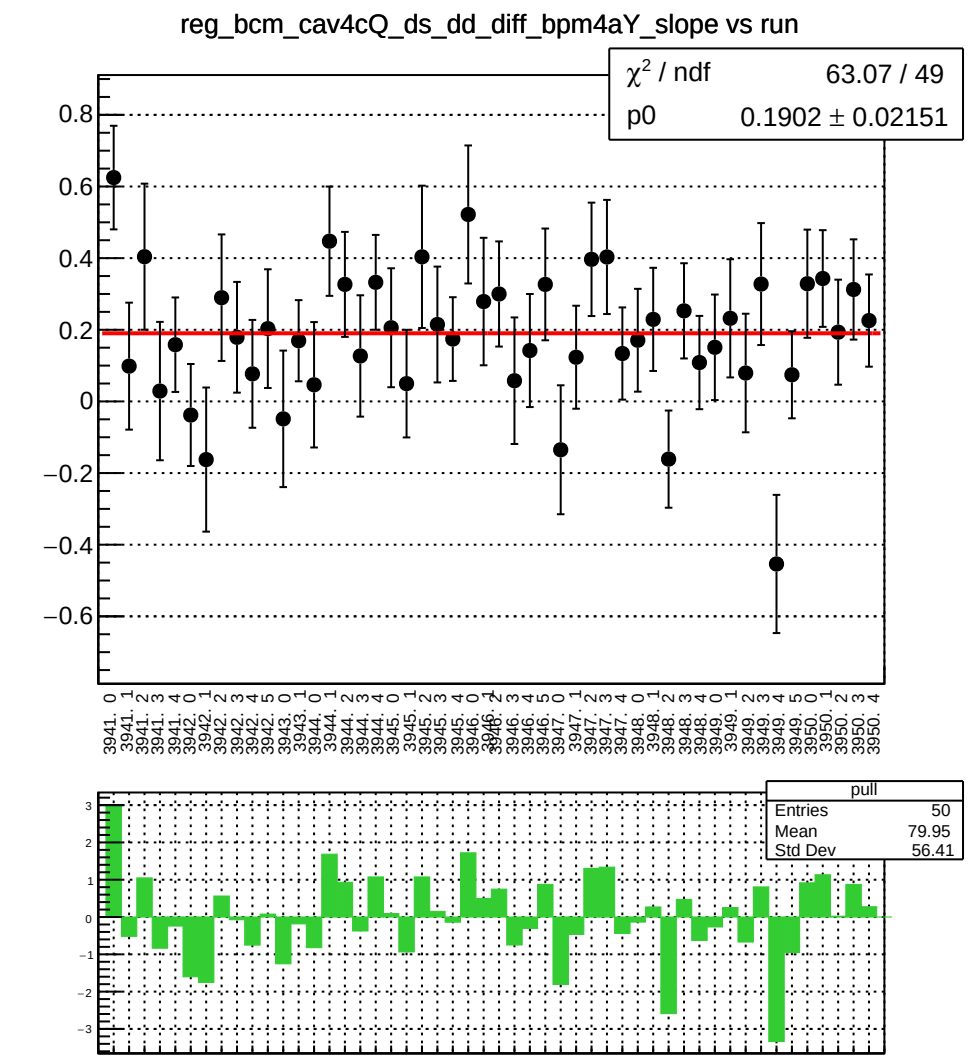

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.22 / 49
p0 0.103 ± 0.03217
pull
Entries 50
Mean 147.1
Std Dev 114.7

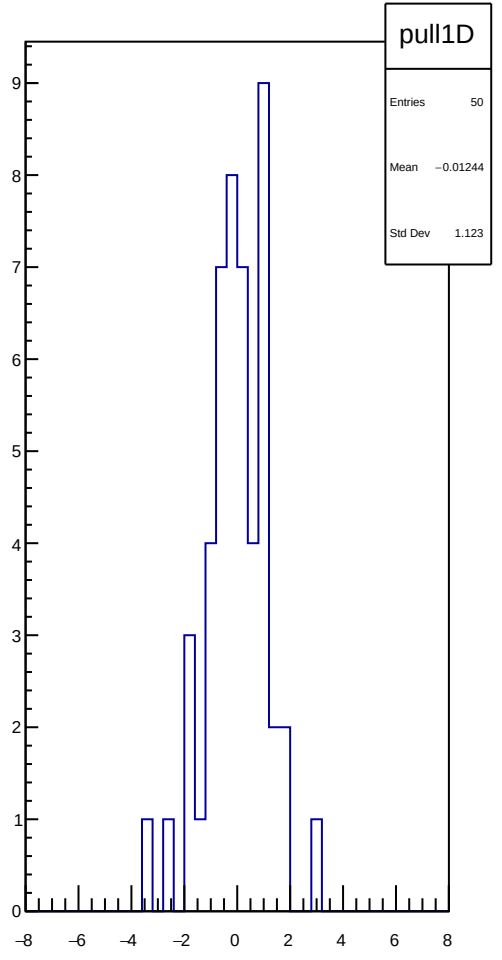

pull1D
Entries 50
Mean 0.03417
Std Dev 1.282

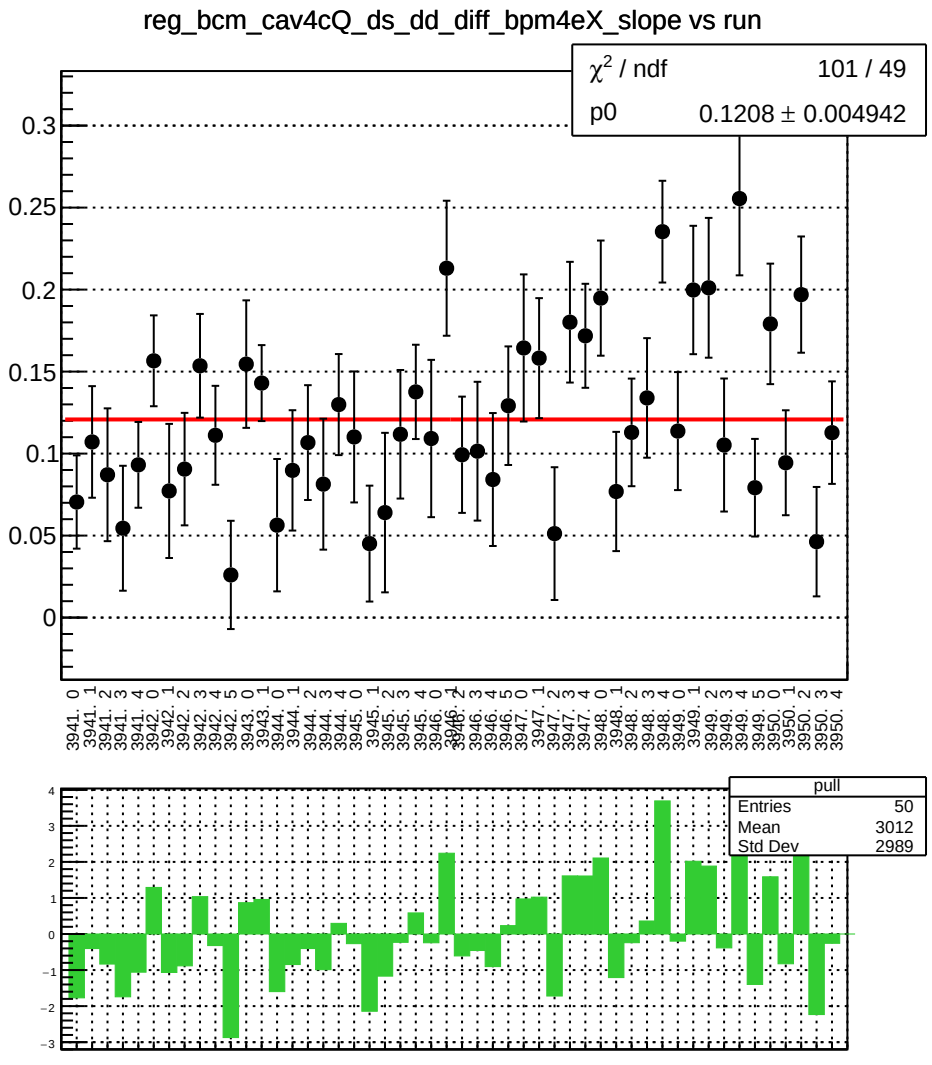

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 40.9 / 49
p0 0.04083 ± 0.005443
pull
Entries 50
Mean −67.55
Std Dev 83.14
pull1D
Entries 50
Mean −0.01745
Std Dev 0.9042

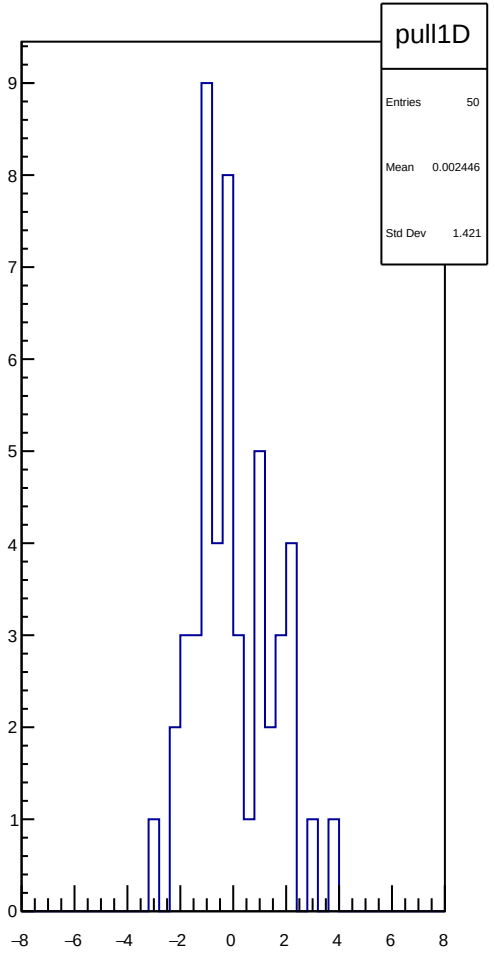

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.38 / 49
p0 0.004362 ± 0.03049
pull
Entries 50
Mean −51.73
Std Dev 64.72

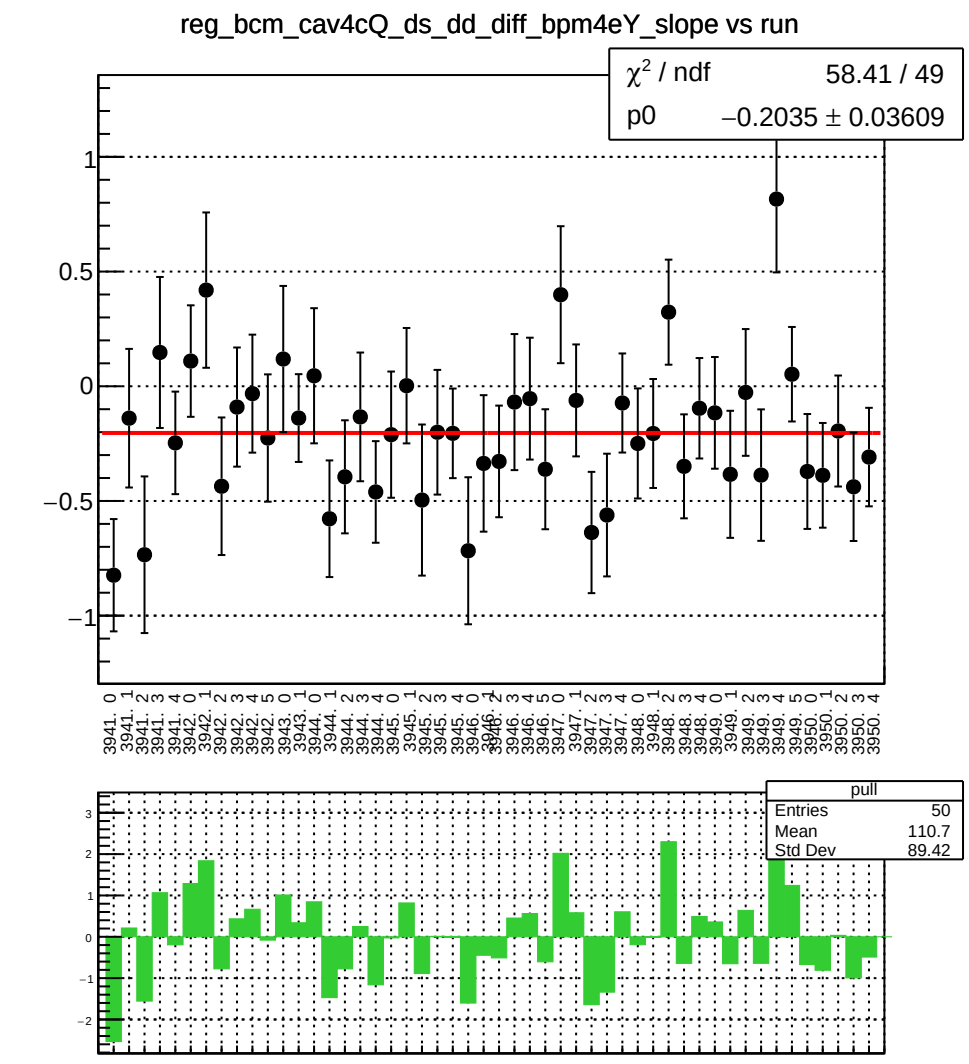

pull1D
Entries 50
Mean 0.01219
Std Dev 1.071

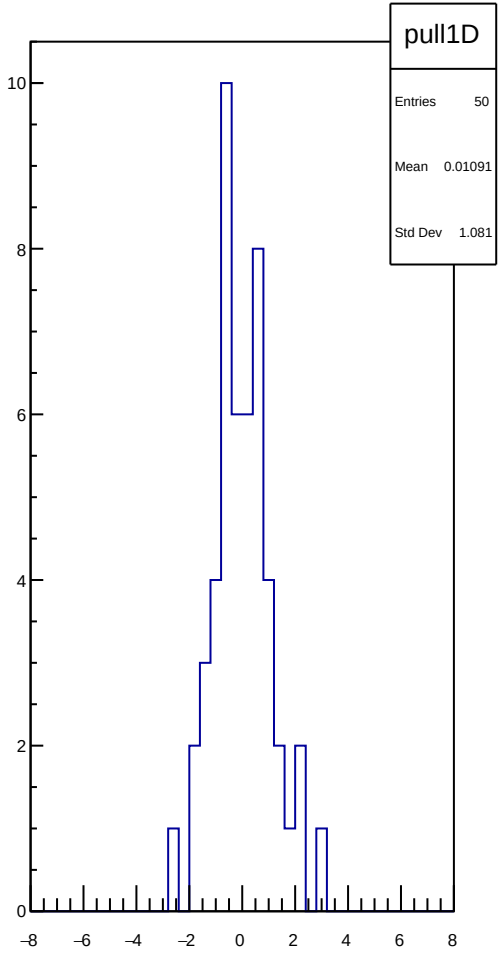

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.07 / 49
p0 0.1902 ± 0.02151
pull
Entries 50
Mean 79.95
Std Dev 56.41

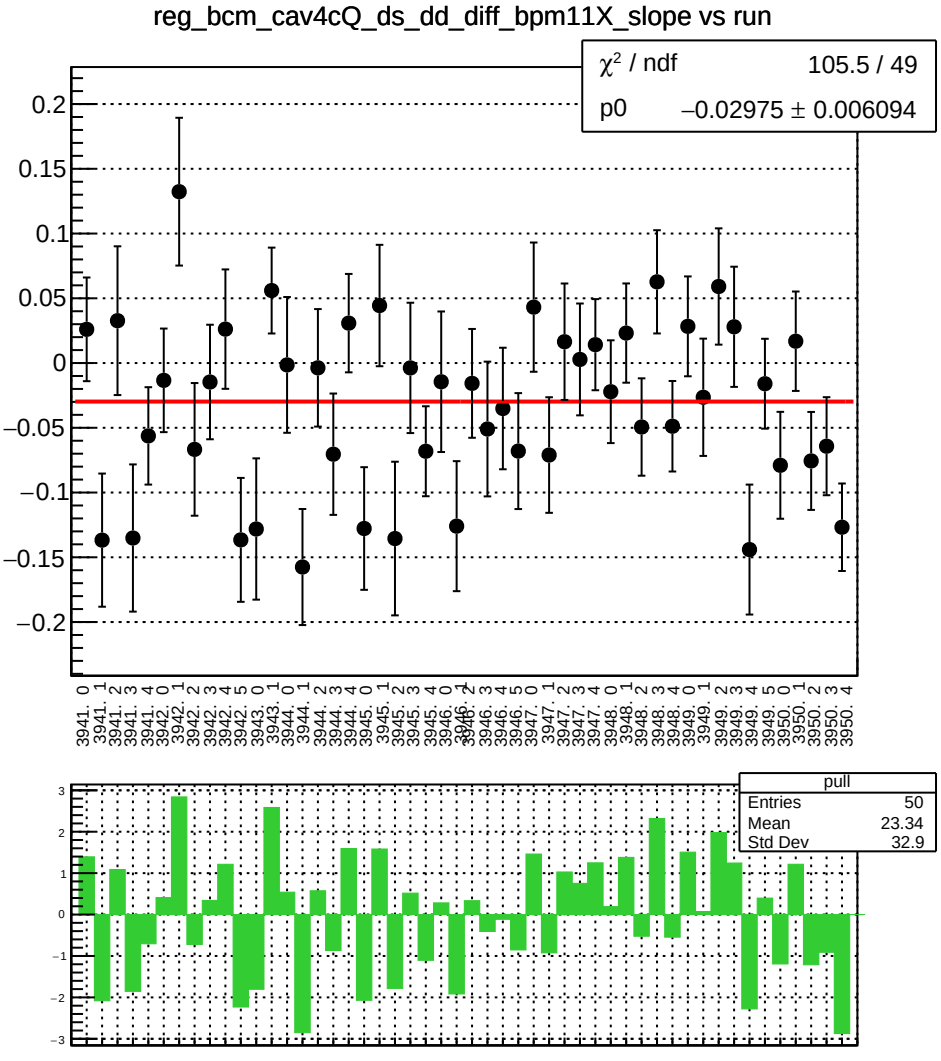

pull1D
Entries 50
Mean −0.01244
Std Dev 1.123

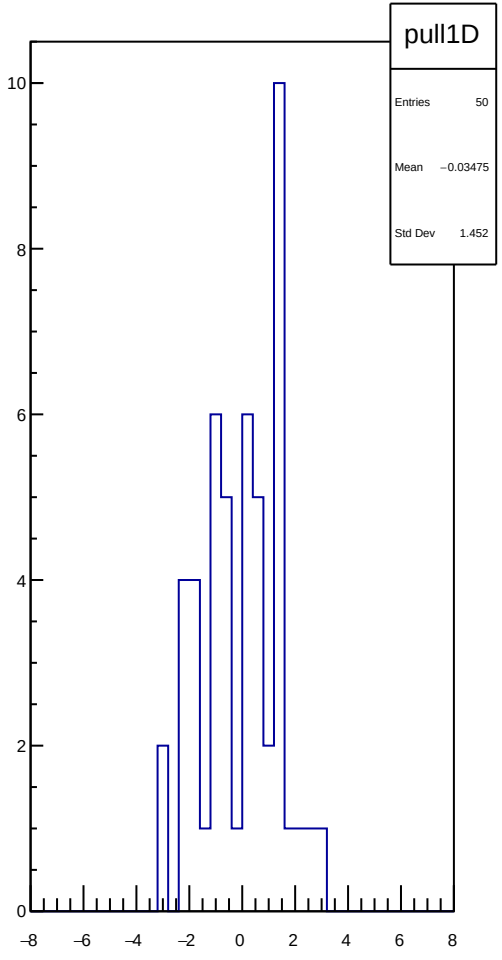

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 101 / 49
p0 0.1208 ± 0.004942
pull
Entries 50
Mean 3012
Std Dev 2989

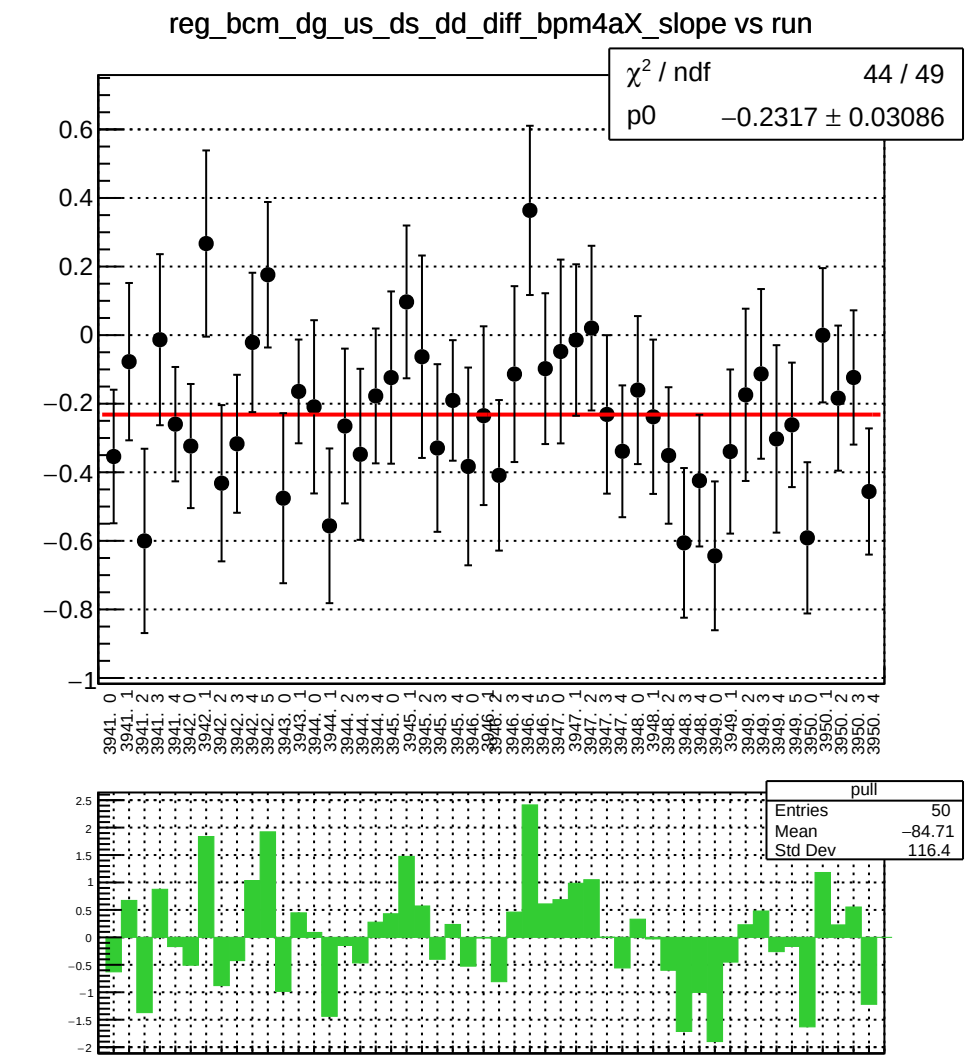

pull1D
Entries 50
Mean 0.002446
Std Dev 1.421

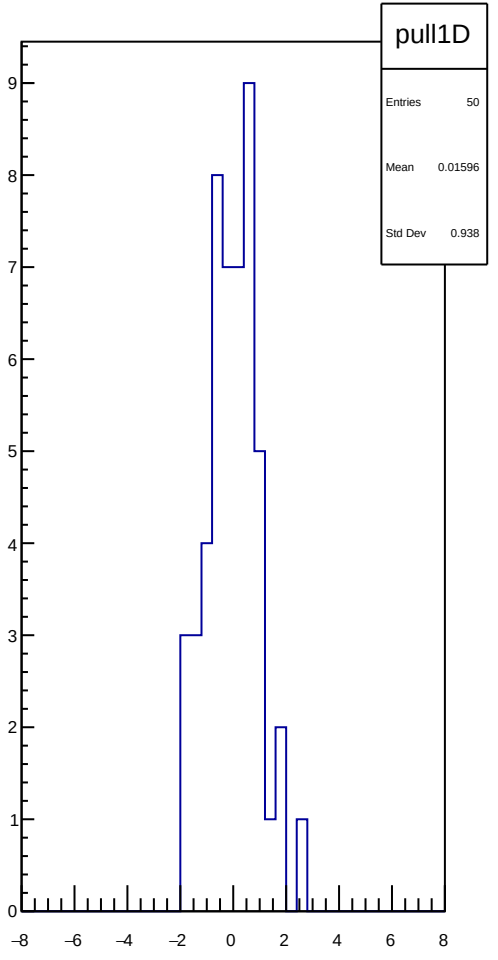

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.41 / 49
p0 −0.2035 ± 0.03609
pull
Entries 50
Mean 110.7
Std Dev 89.42

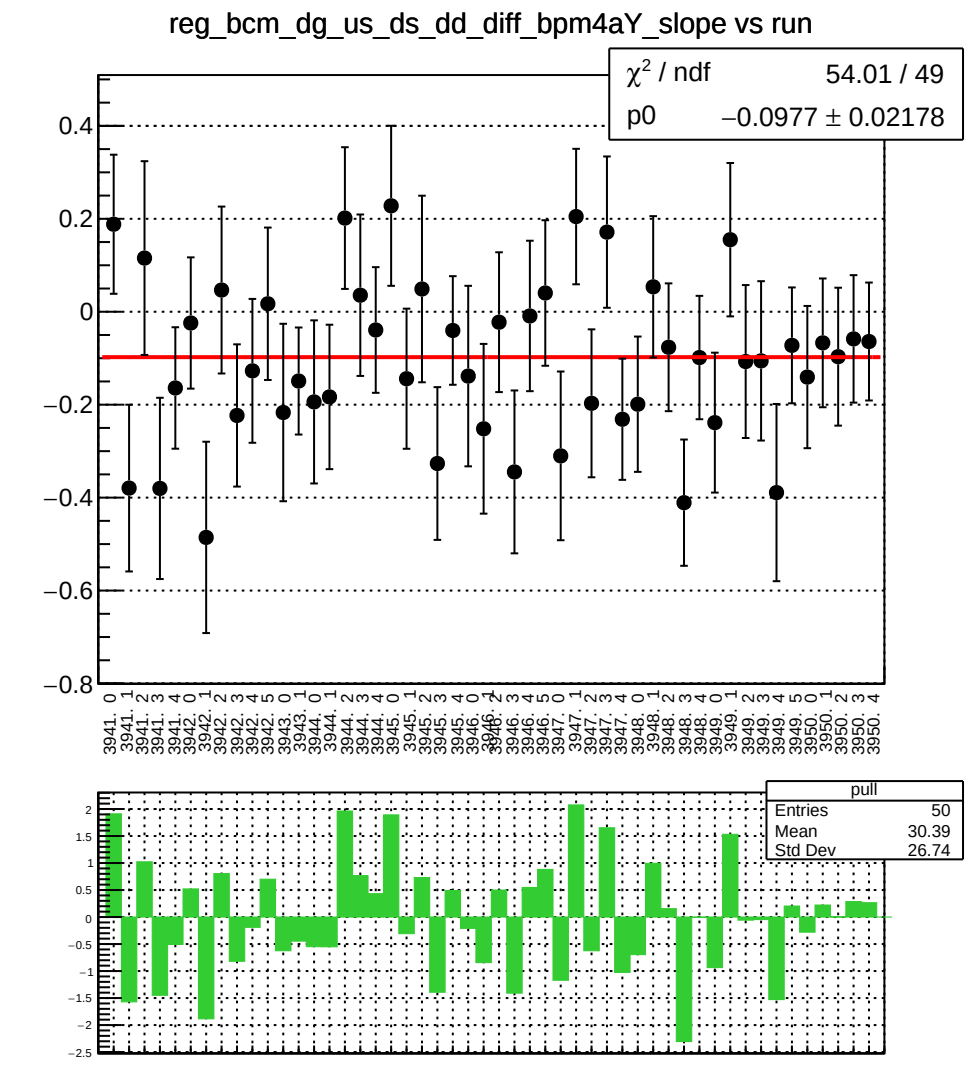

pull1D
Entries 50
Mean 0.01091
Std Dev 1.081

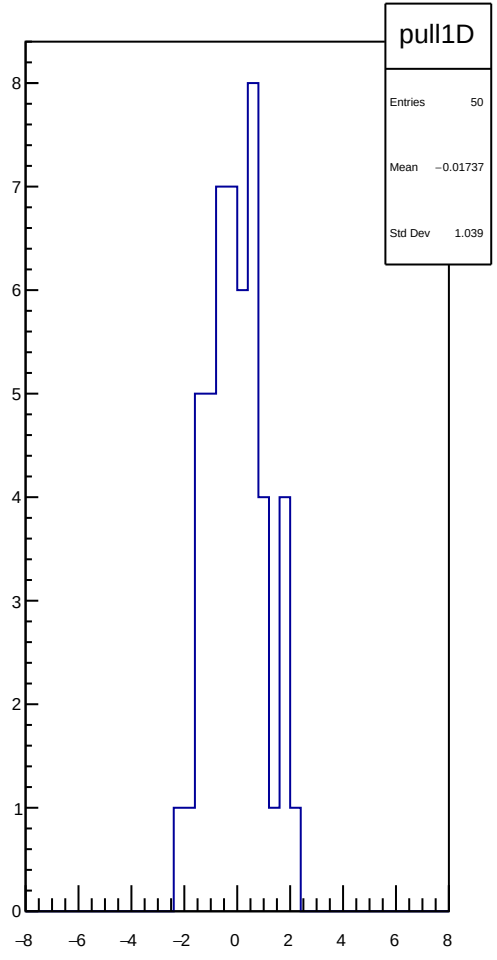

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 105.5 / 49
p0 −0.02975 ± 0.006094
pull
Entries 50
Mean 23.34
Std Dev 32.9

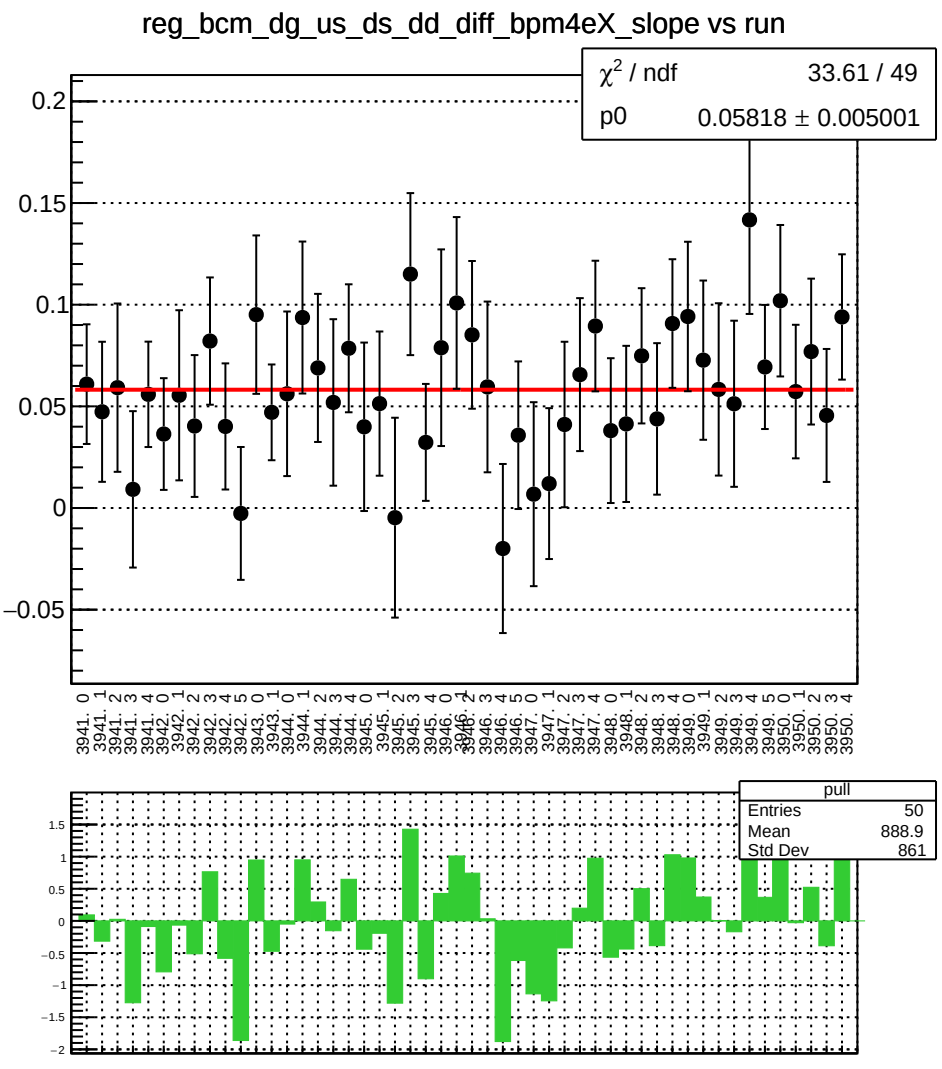

pull1D
Entries 50
Mean −0.03475
Std Dev 1.452

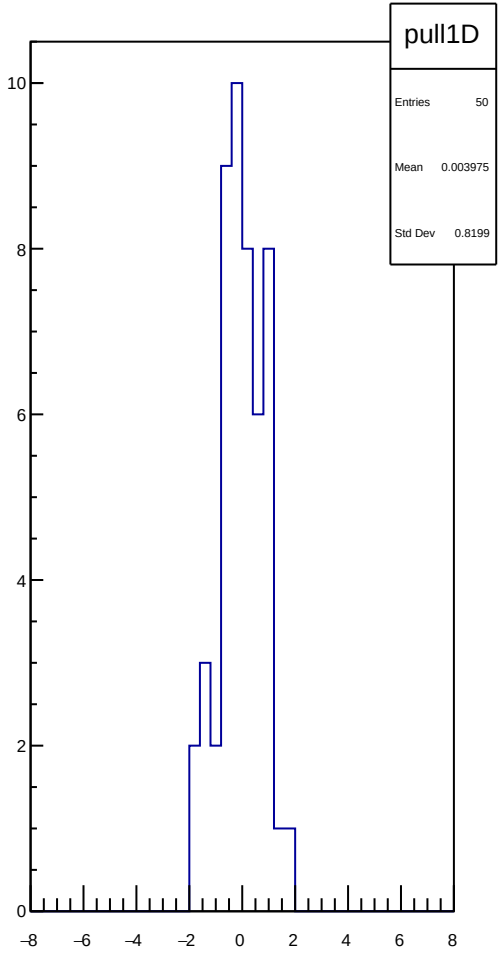

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 44 / 49
p0 −0.2317 ± 0.03086
pull
Entries 50
Mean −84.71
Std Dev 116.4

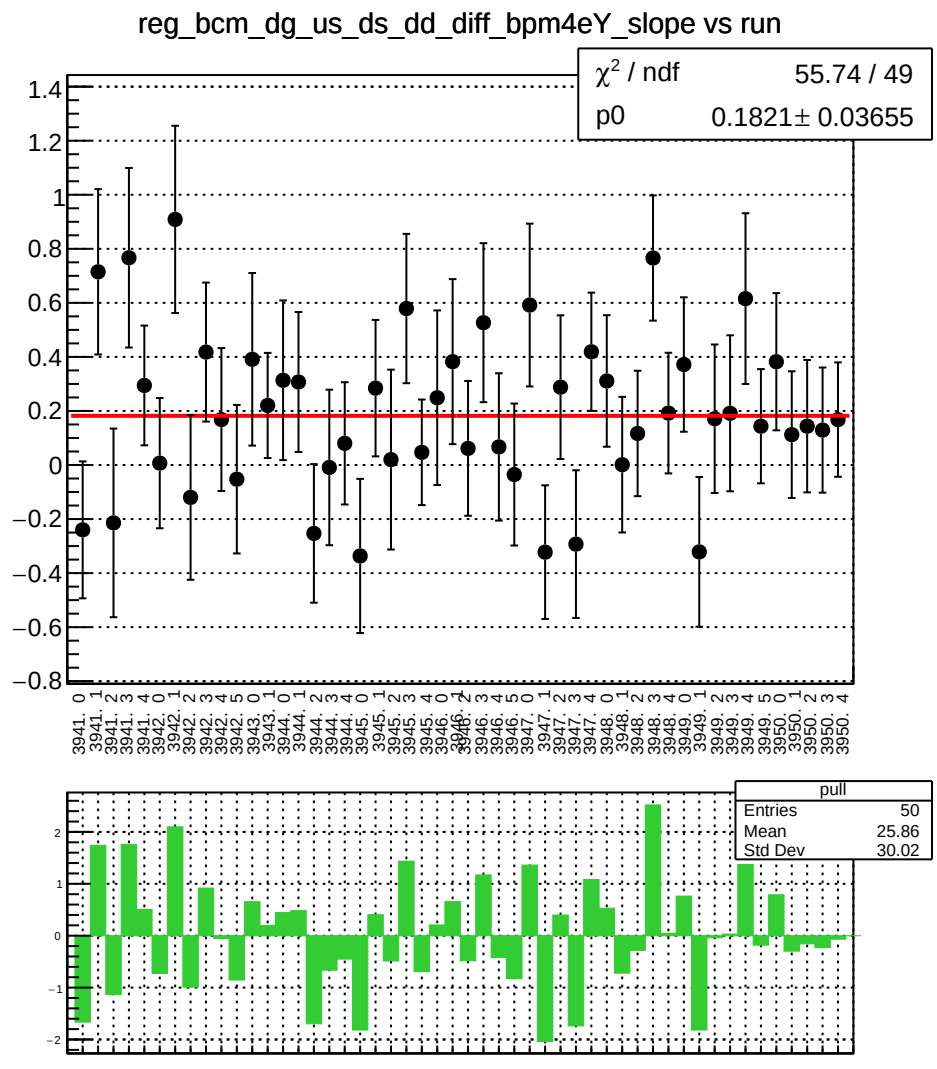

pull1D
Entries 50
Mean 0.01596
Std Dev 0.938

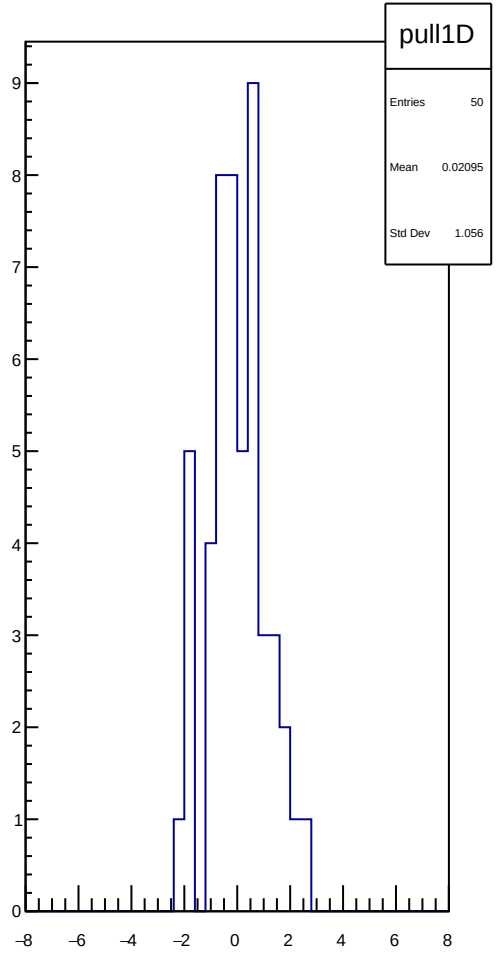

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.01 / 49
p0 −0.0977 ± 0.02178
pull
Entries 50
Mean 30.39
Std Dev 26.74

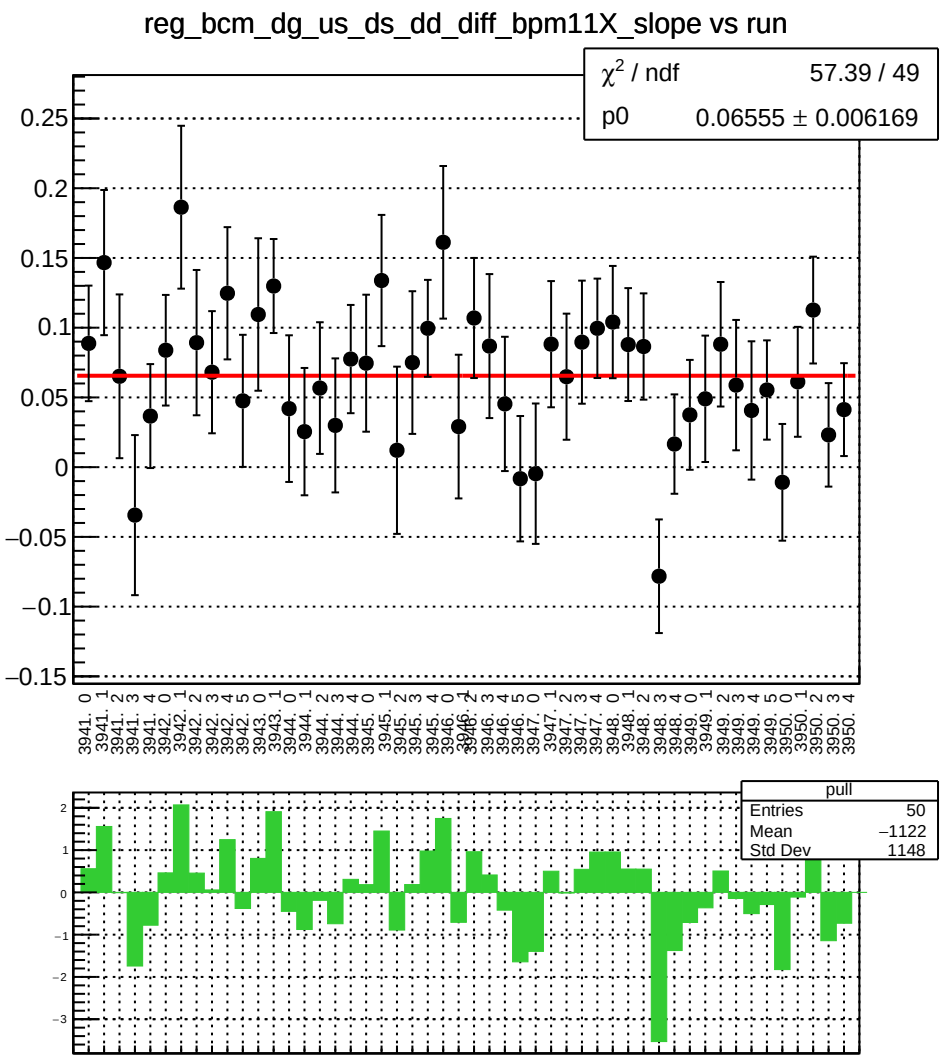

pull1D
Entries 50
Mean −0.01737
Std Dev 1.039

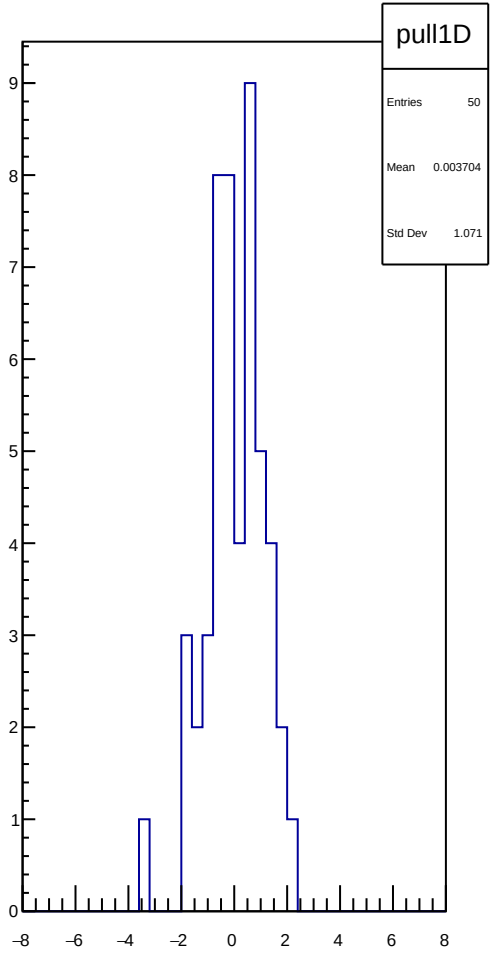

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.61 / 49
p0 0.05818 ± 0.005001
pull
Entries 50
Mean 888.9
Std Dev 861

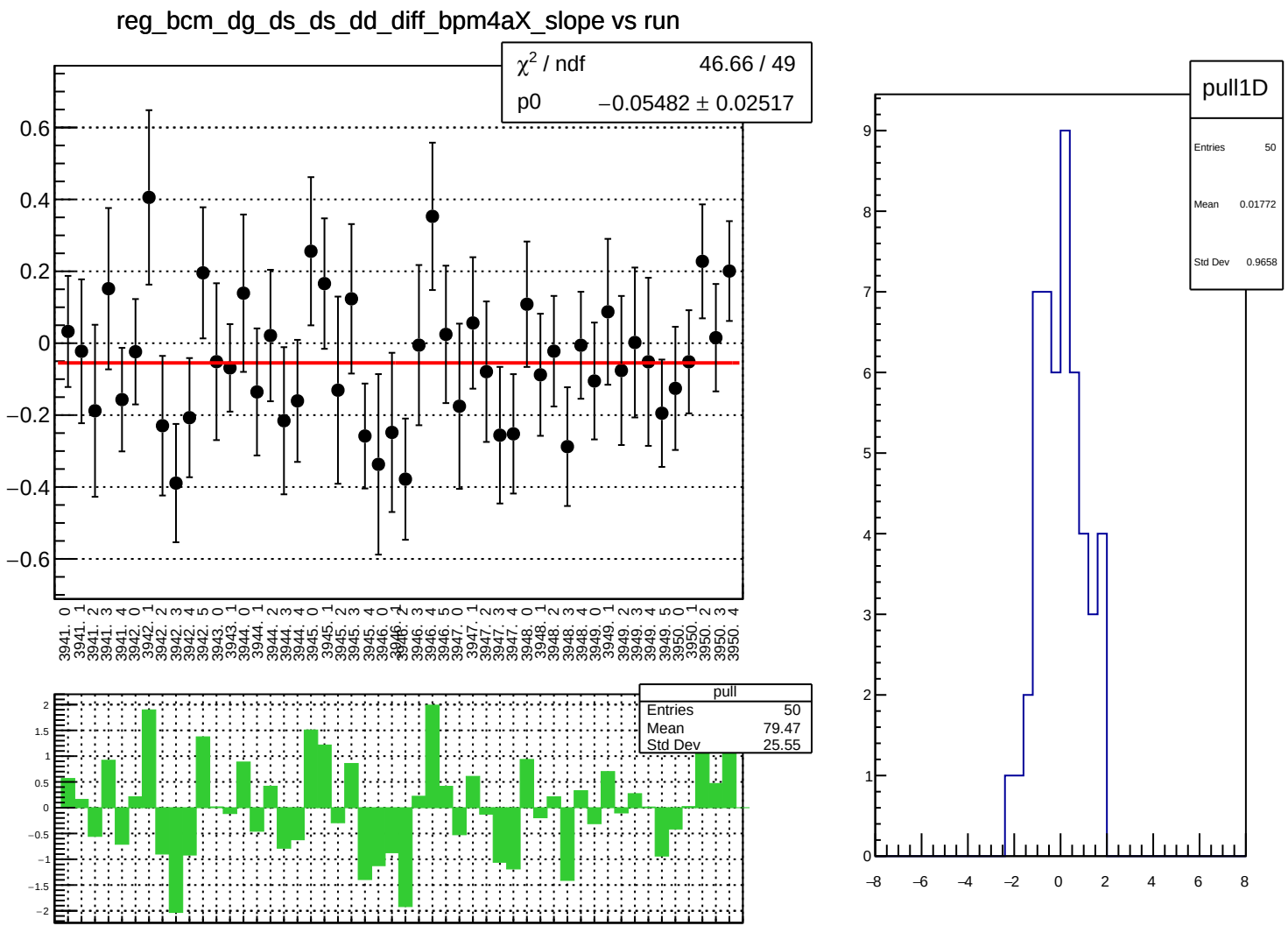

pull1D
Entries 50
Mean 0.003975
Std Dev 0.8199

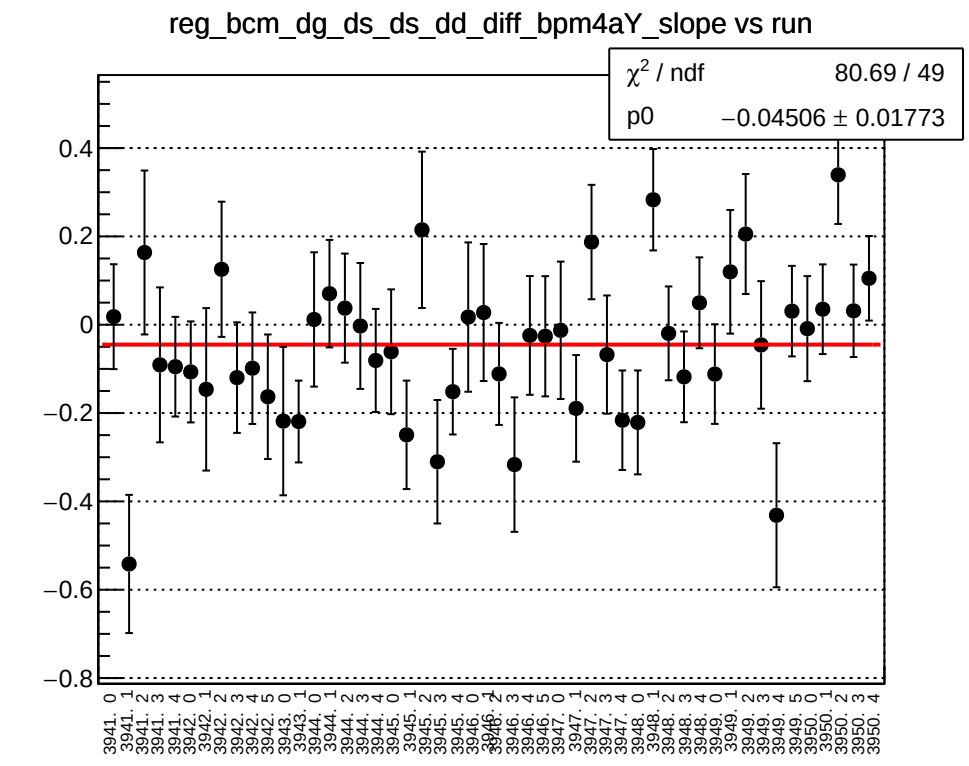

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.74 / 49
p0 0.1821± 0.03655
pull
Entries 50
Mean 25.86
Std Dev 30.02

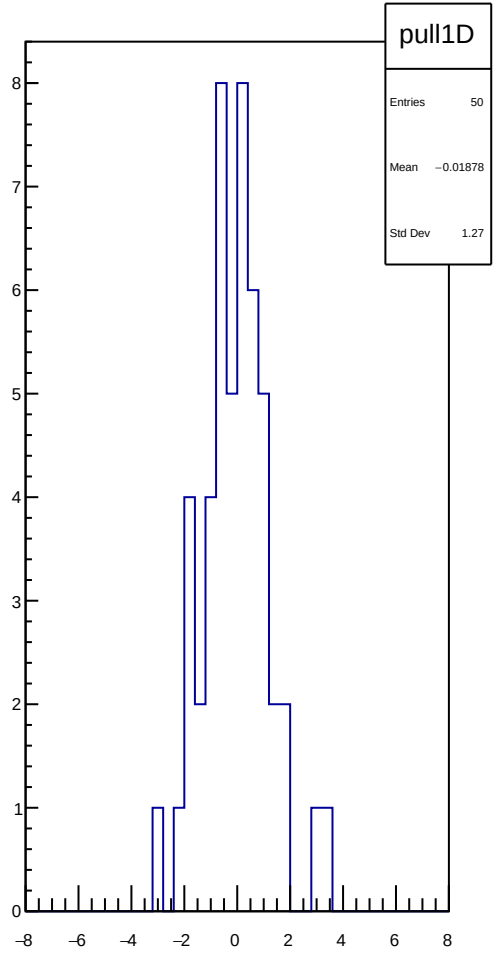

pull1D
Entries 50
Mean 0.02095
Std Dev 1.056

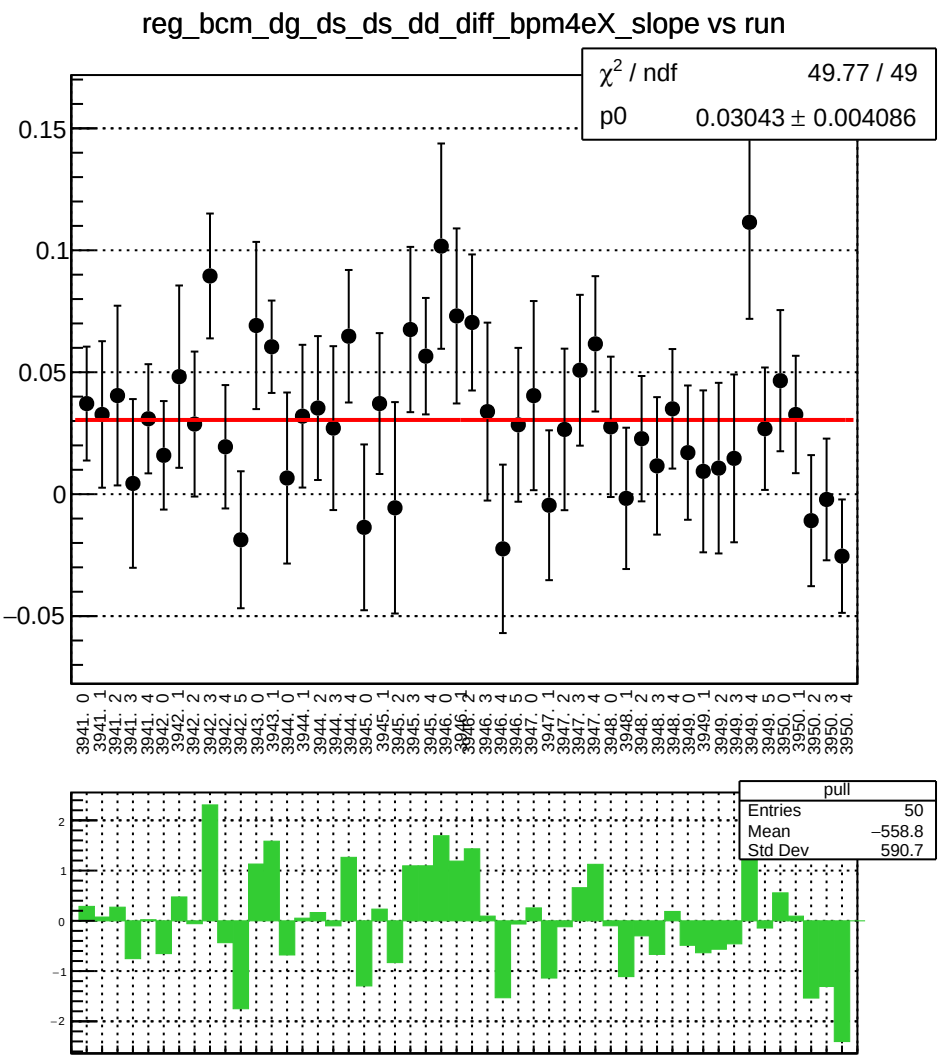

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 57.39 / 49
p0 0.06555 ± 0.006169
pull
Entries 50
Mean −1122
Std Dev 1148

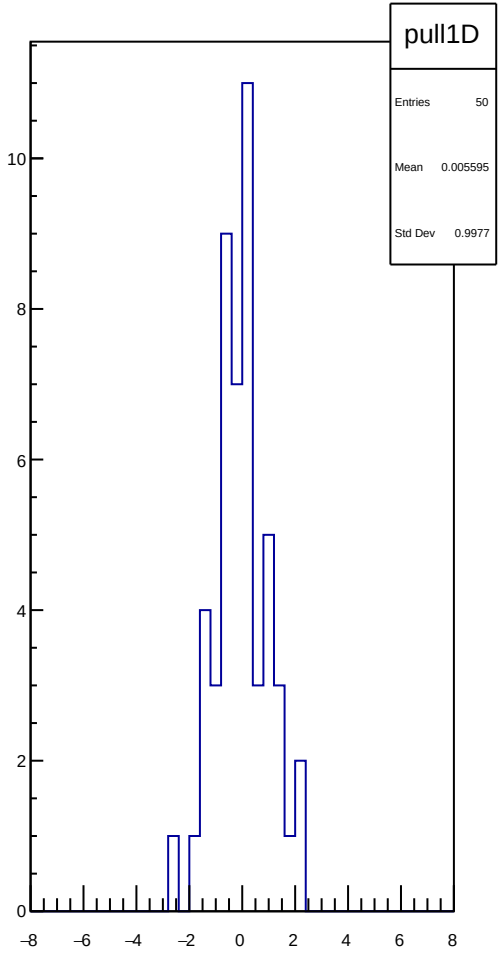

pull1D
Entries 50
Mean 0.003704
Std Dev 1.071

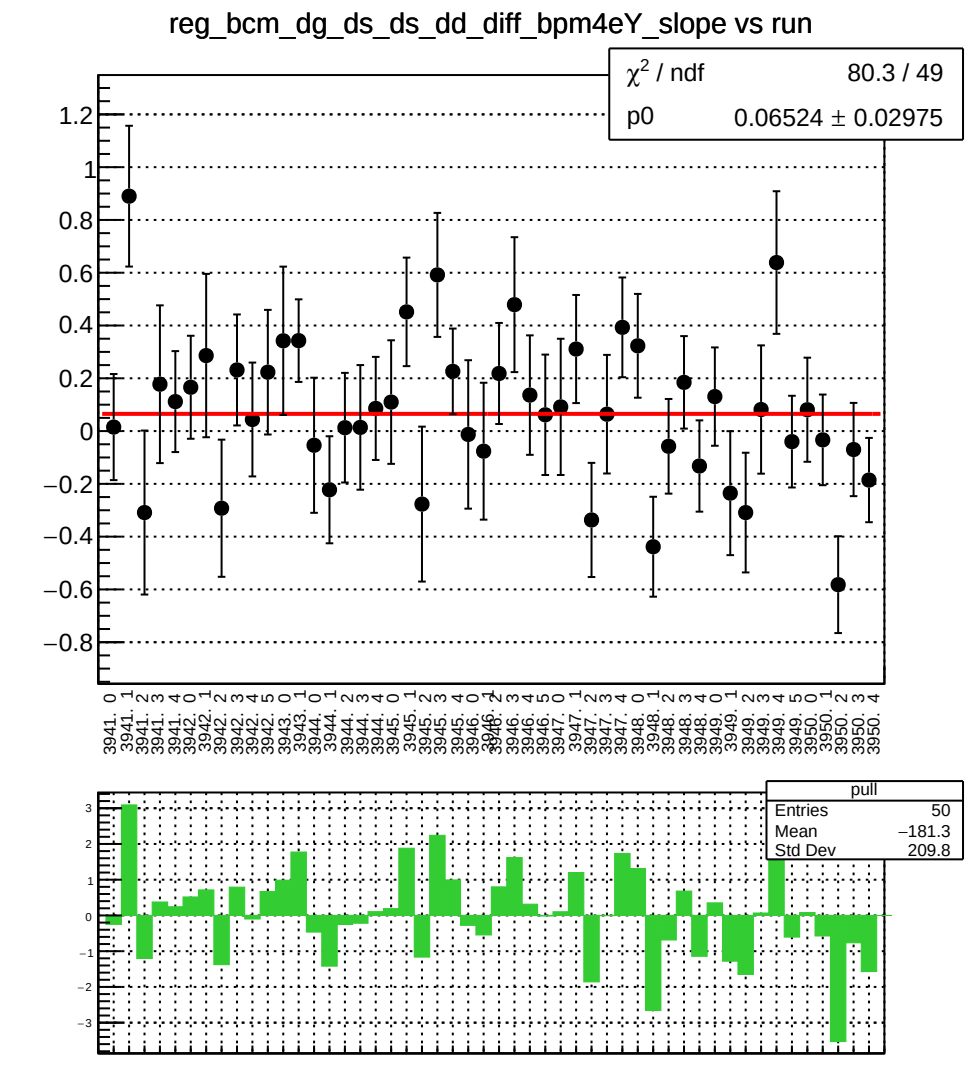

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.66 / 49
p0 −0.05482 ± 0.02517
pull
Entries 50
Mean 79.47
Std Dev 25.55
pull1D
Entries 50
Mean 0.01772
Std Dev 0.9658

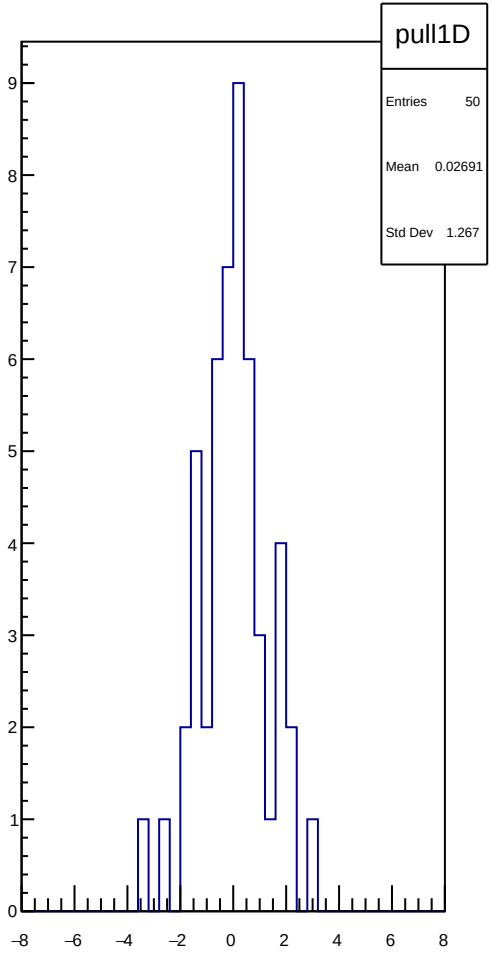

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.69 / 49
p0 −0.04506 ± 0.01773
pull
Entries 50
Mean −281.9
Std Dev 310.3

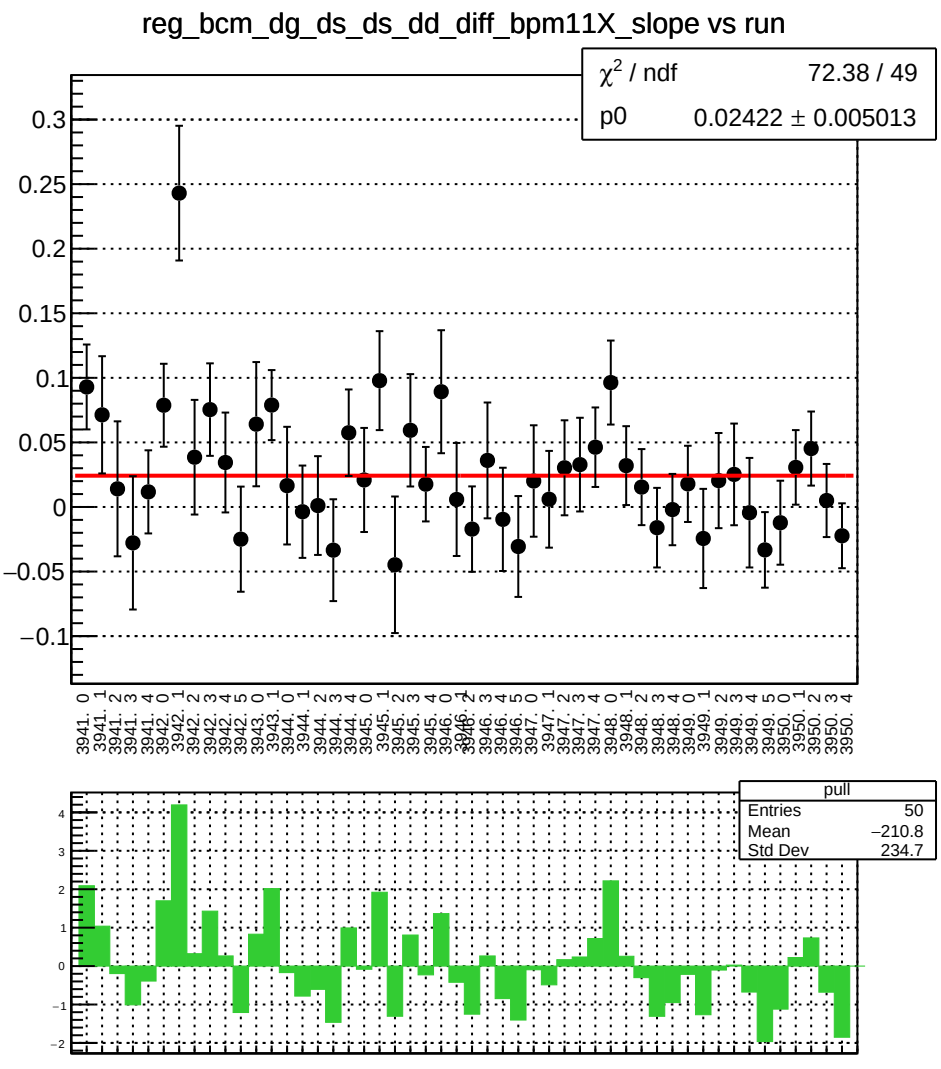

pull1D
Entries 50
Mean −0.01878
Std Dev 1.27

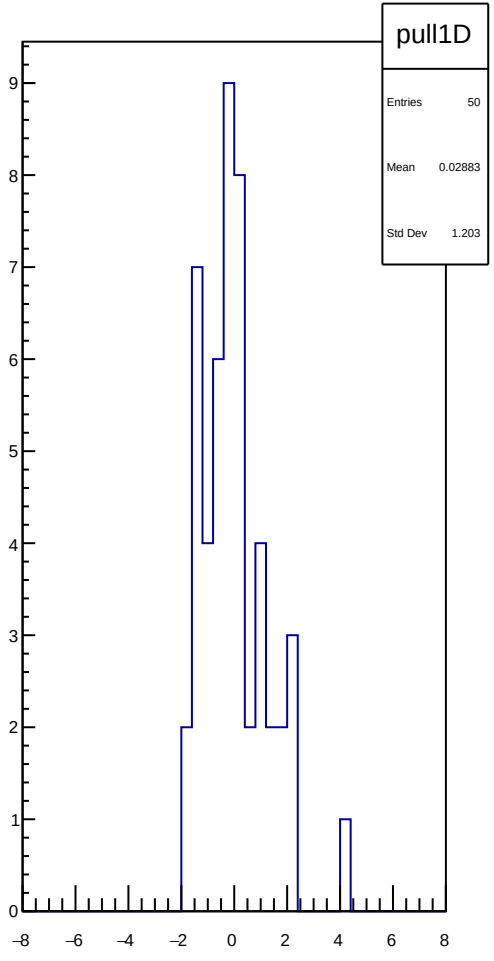

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.77 / 49
p0 0.03043 ± 0.004086
0.15
0.1
0.05
0
−0.05
pull
Entries 50
Mean −558.8
Std Dev 590.7
2
1
0
−1
−2

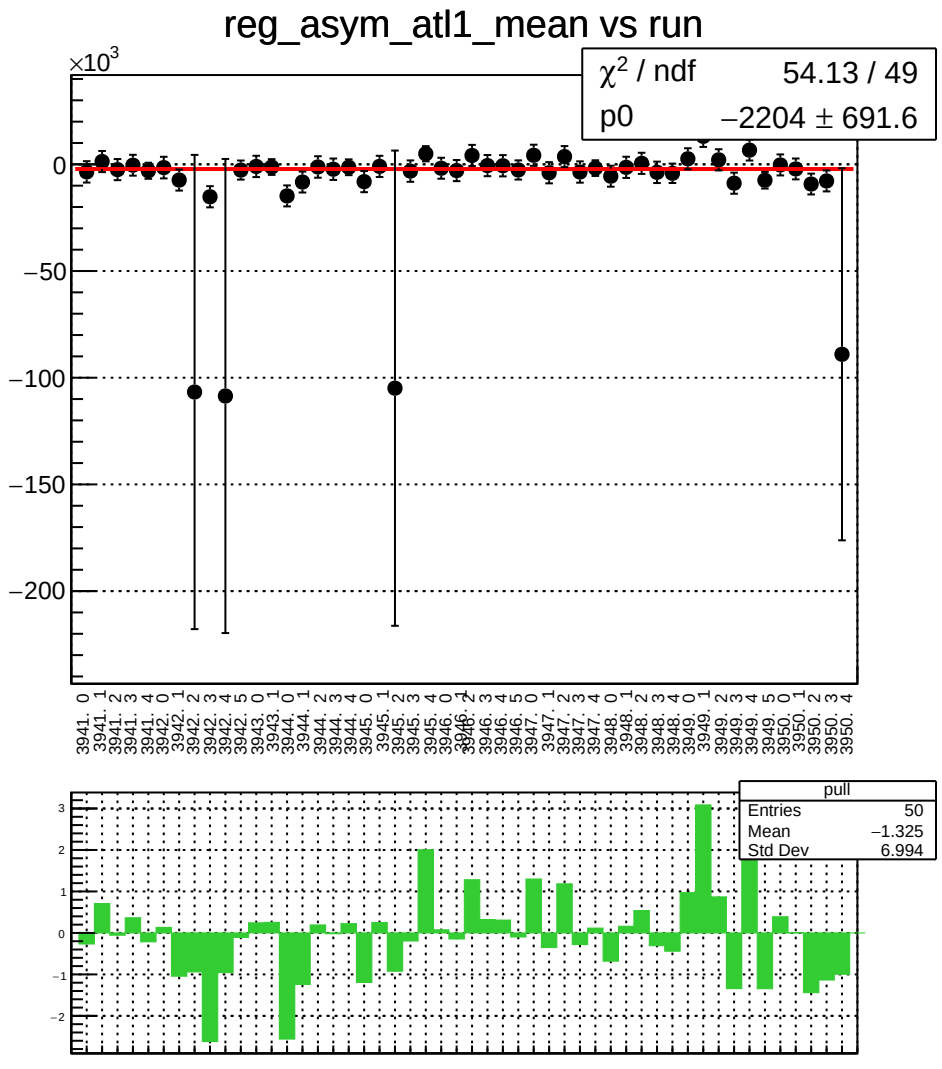

pull1D
Entries 50
Mean 0.005595
Std Dev 0.9977
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

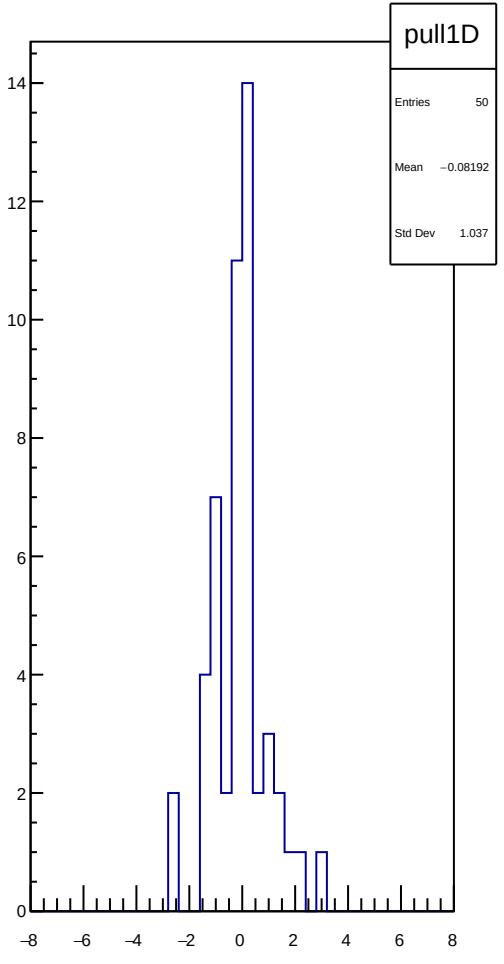

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.3 / 49
p0 0.06524 ± 0.02975
pull
Entries 50
Mean −181.3
Std Dev 209.8

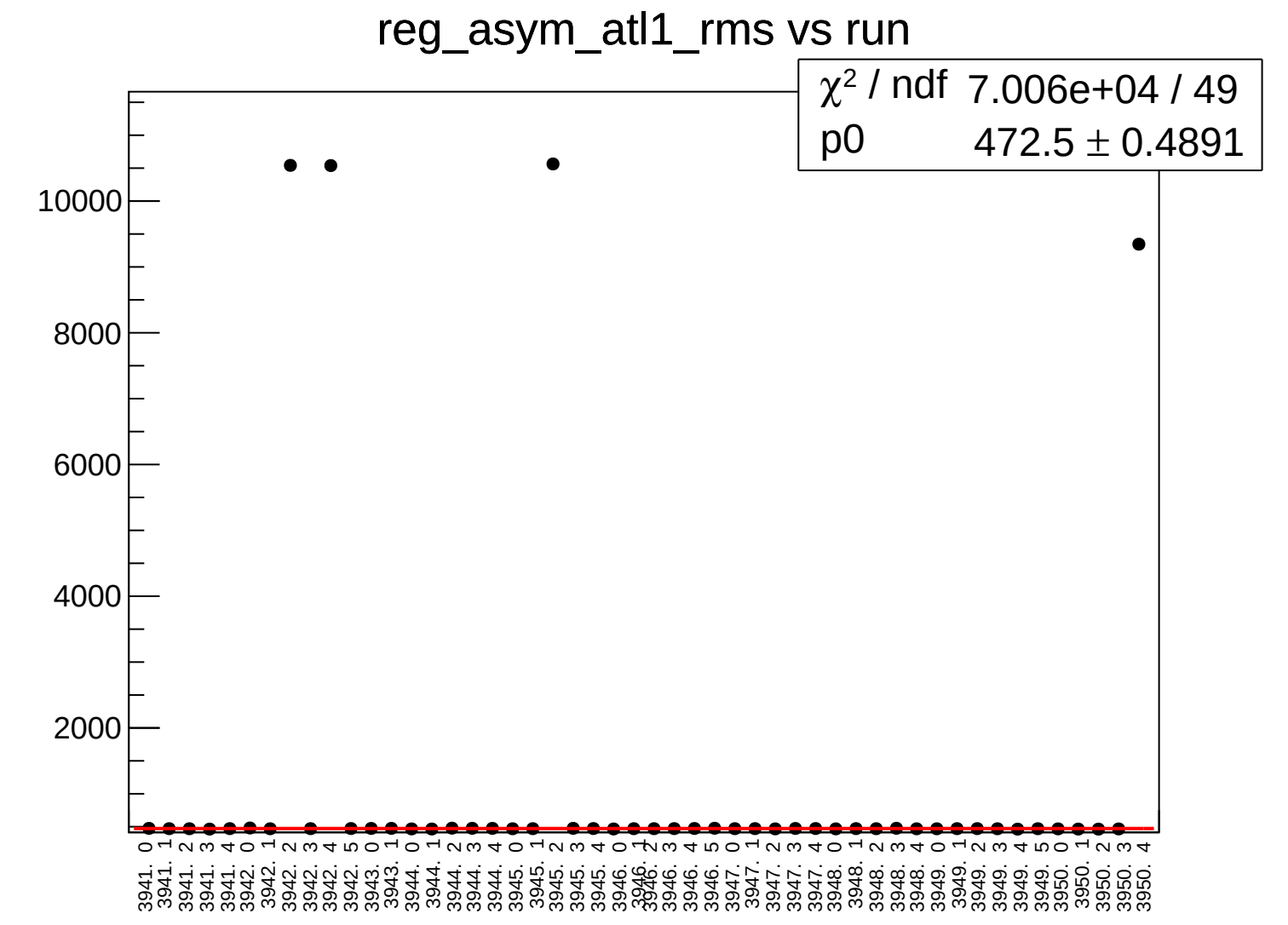

pull1D
Entries 50
Mean 0.02691
Std Dev 1.267

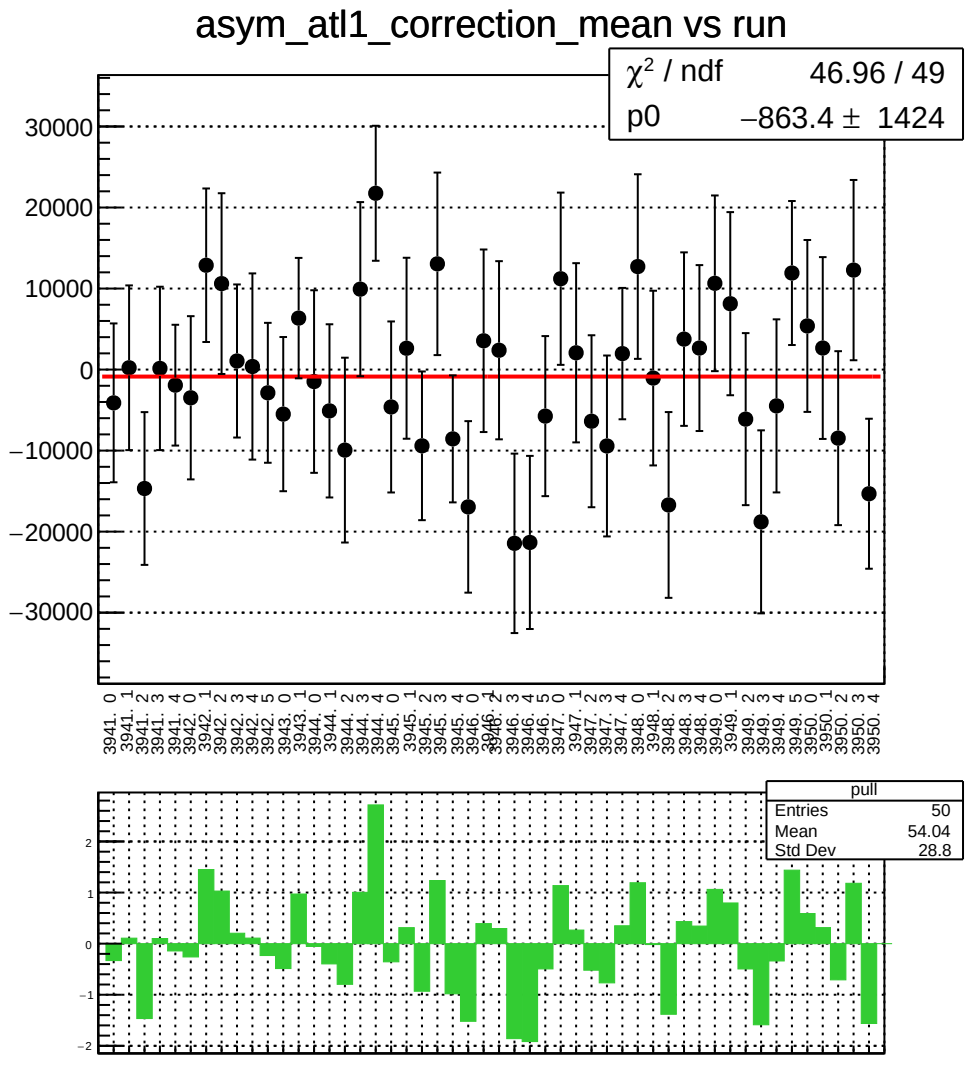

reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 72.38 / 49
p0 0.02422 ± 0.005013
pull
Entries 50
Mean −210.8
Std Dev 234.7

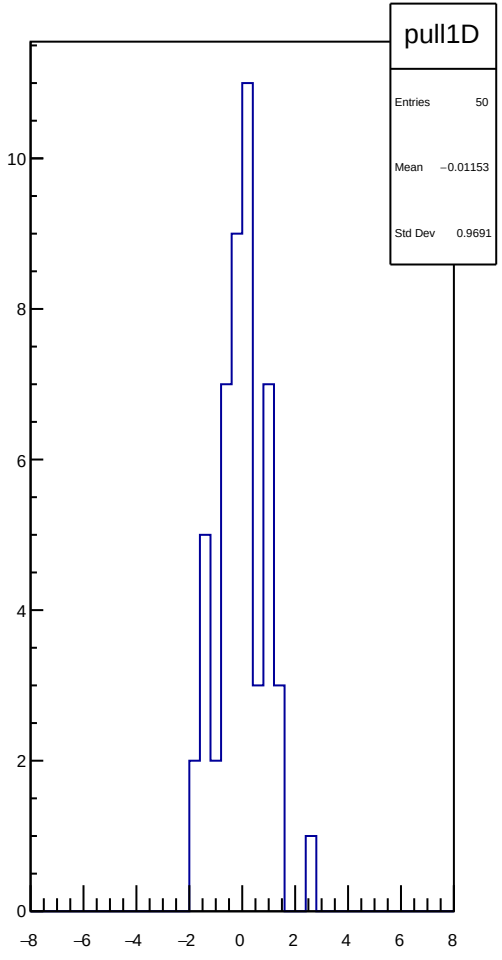

pull1D
Entries 50
Mean 0.02883
Std Dev 1.203

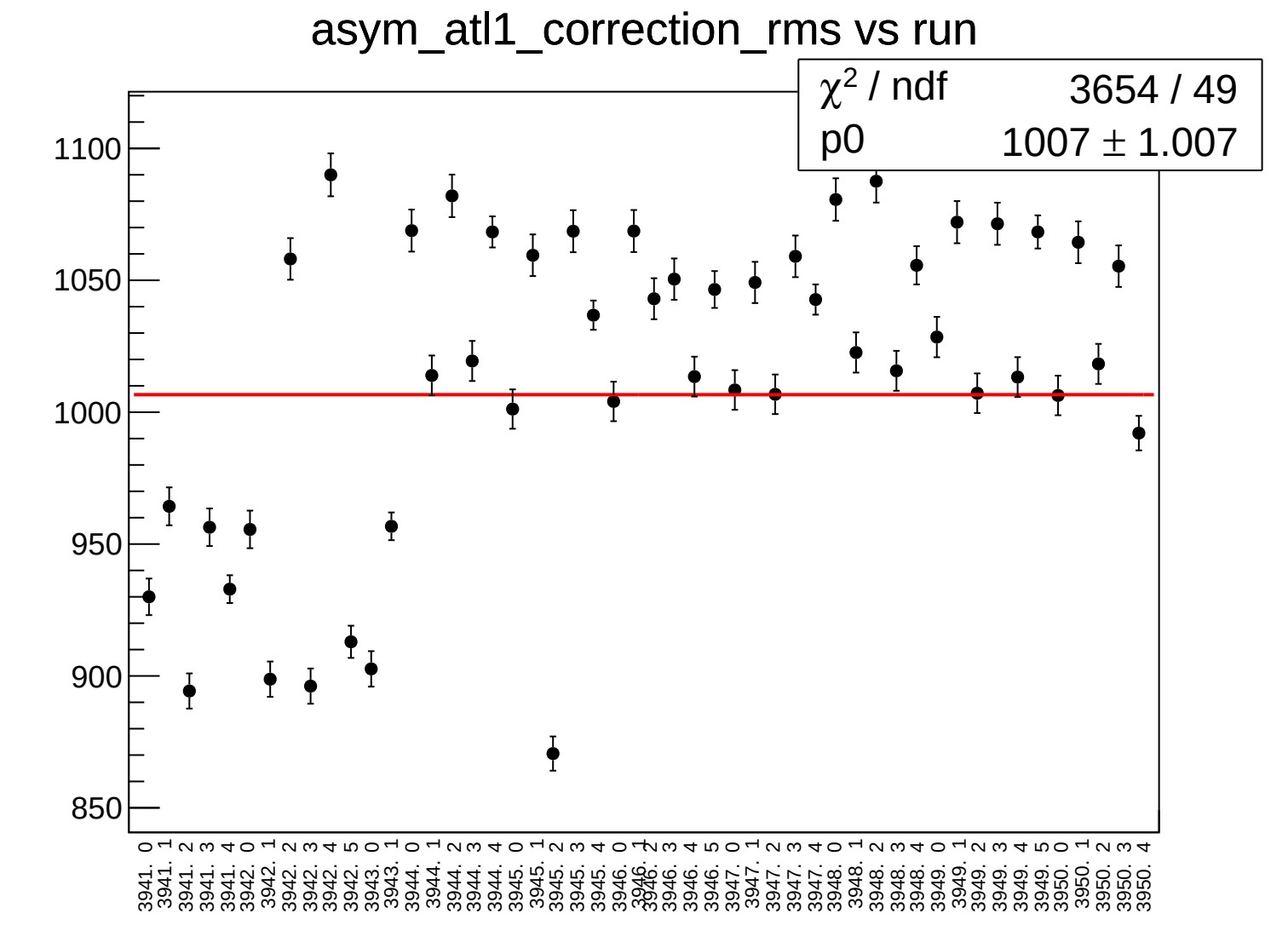

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 54.13 / 49
p0 −2204 ± 691.6
0
−50
−100
−150
−200
pull
Entries 50
Mean −1.325
Std Dev 6.994

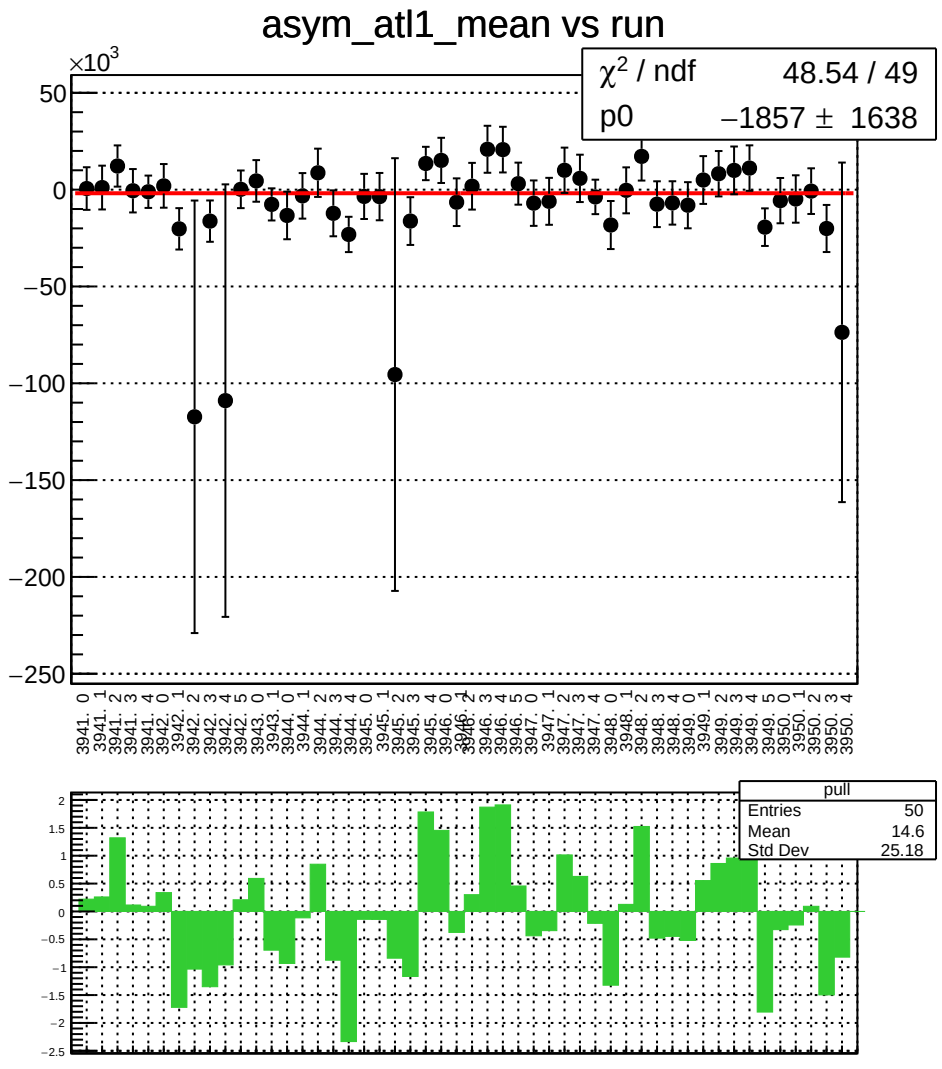

pull1D
Entries 50
Mean −0.08192
Std Dev 1.037

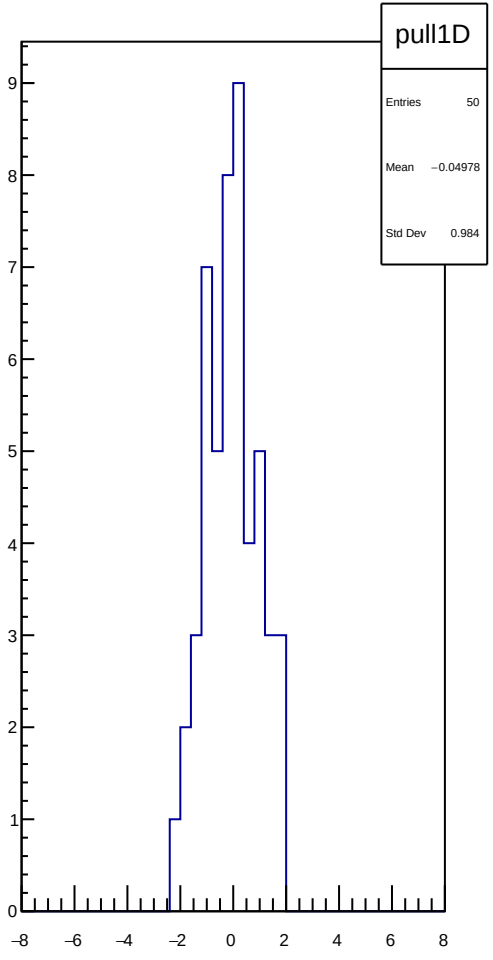

reg_asym_atl1_rms vs run
χ² / ndf 7.006e+04 / 49
p0 472.5 ± 0.4891
10000
8000
6000
4000
2000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

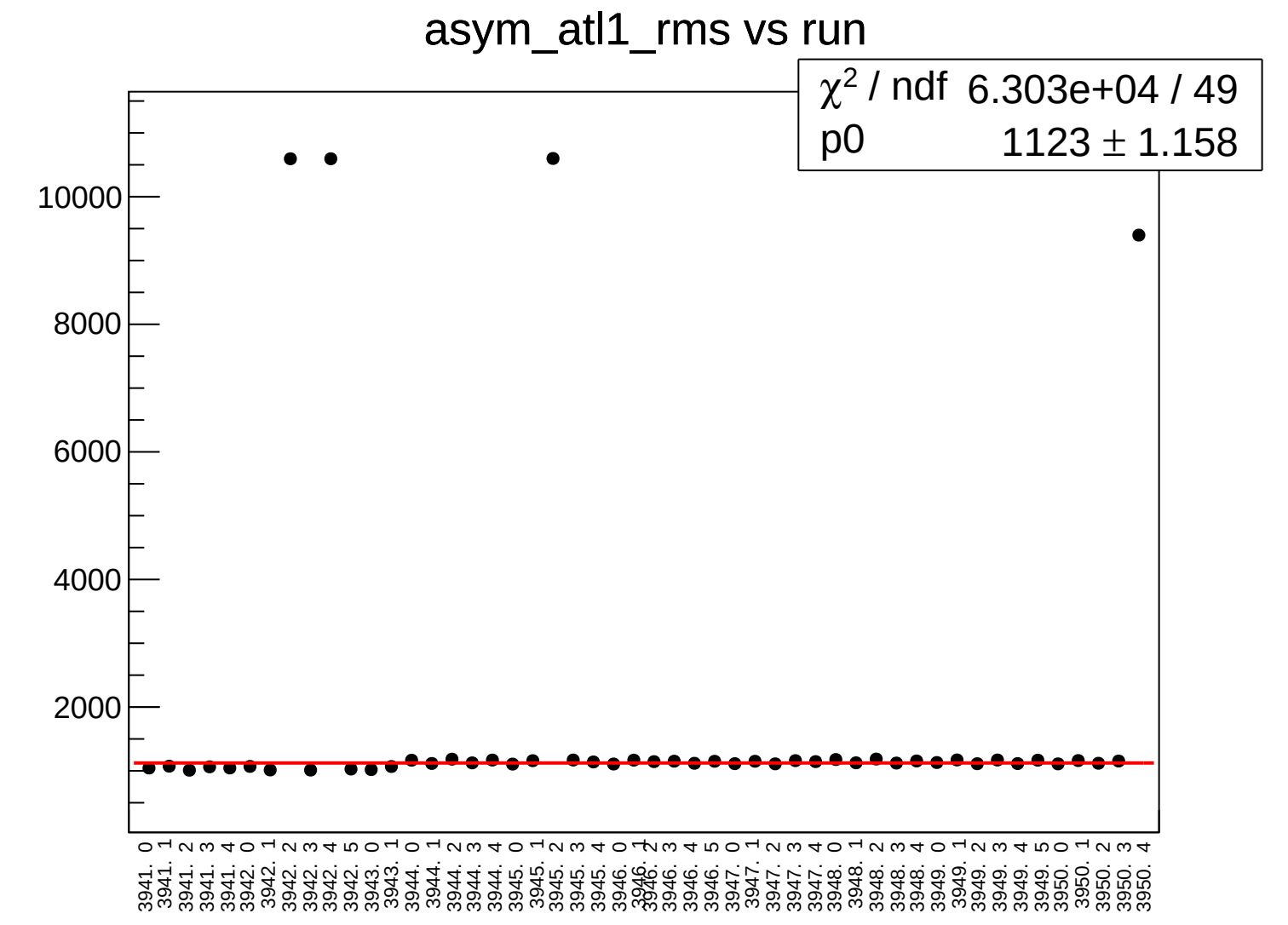

asym_atl1_correction_mean vs run
χ² / ndf 46.96 / 49
p0 −863.4 ± 1424
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 50
Mean 54.04
Std Dev 28.8
2
1
0
−1
−2

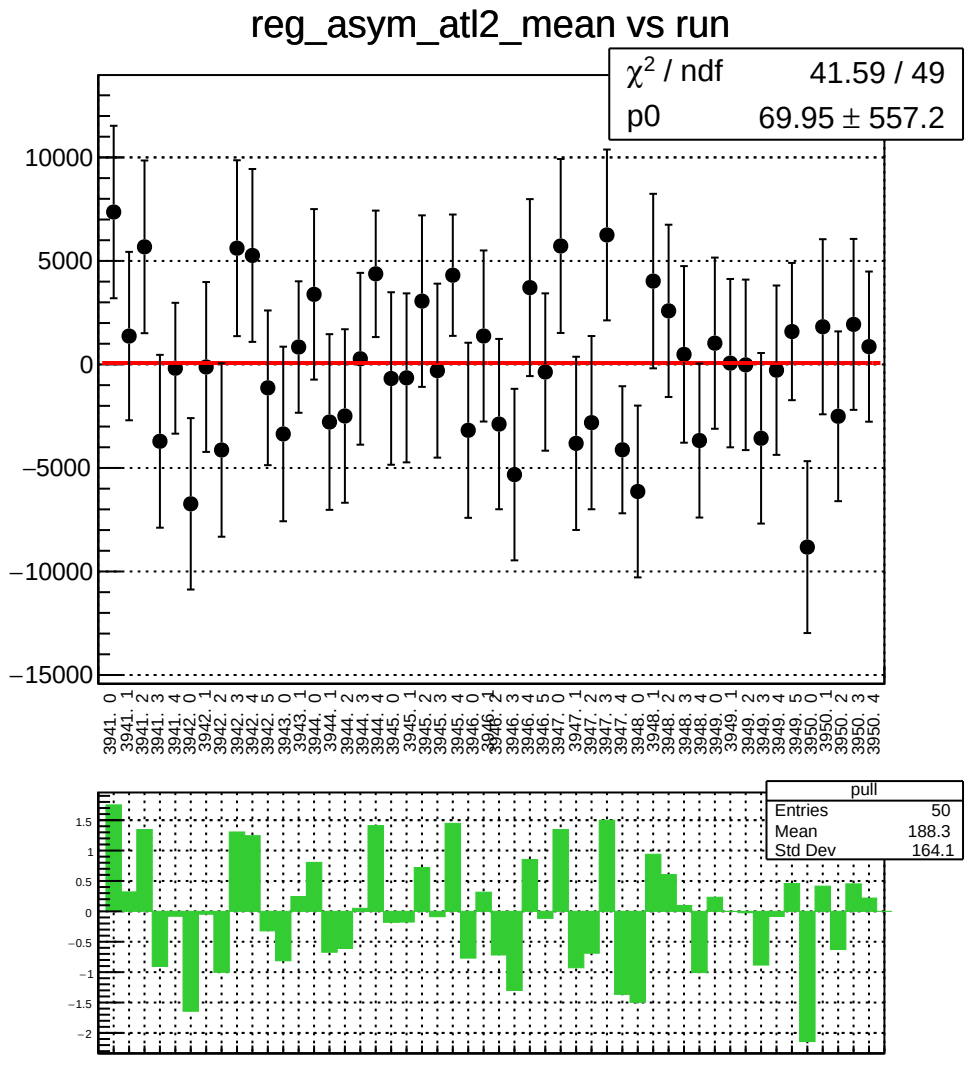

pull1D
Entries 50
Mean −0.01153
Std Dev 0.9691
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

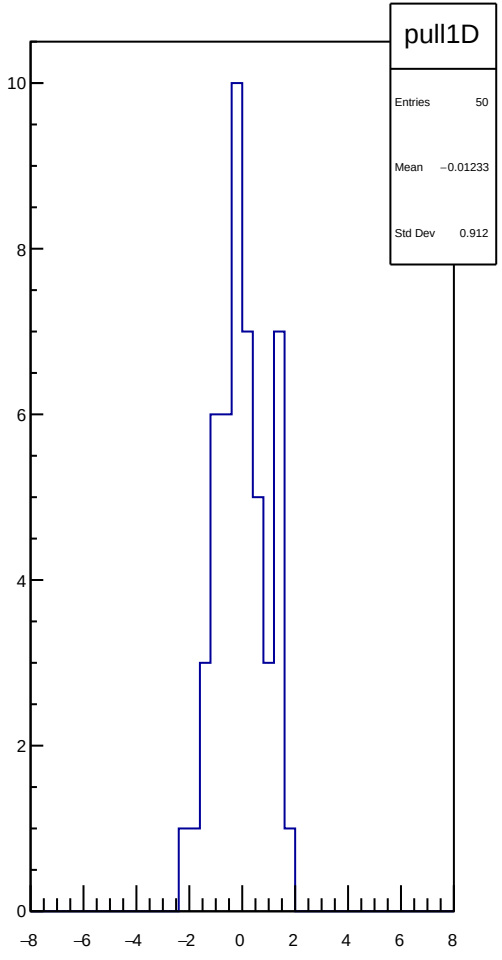

asym_atl1_correction_rms vs run
χ² / ndf 3654 / 49
p0 1007 ± 1.007
1100
1050
1000
950
900
850
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

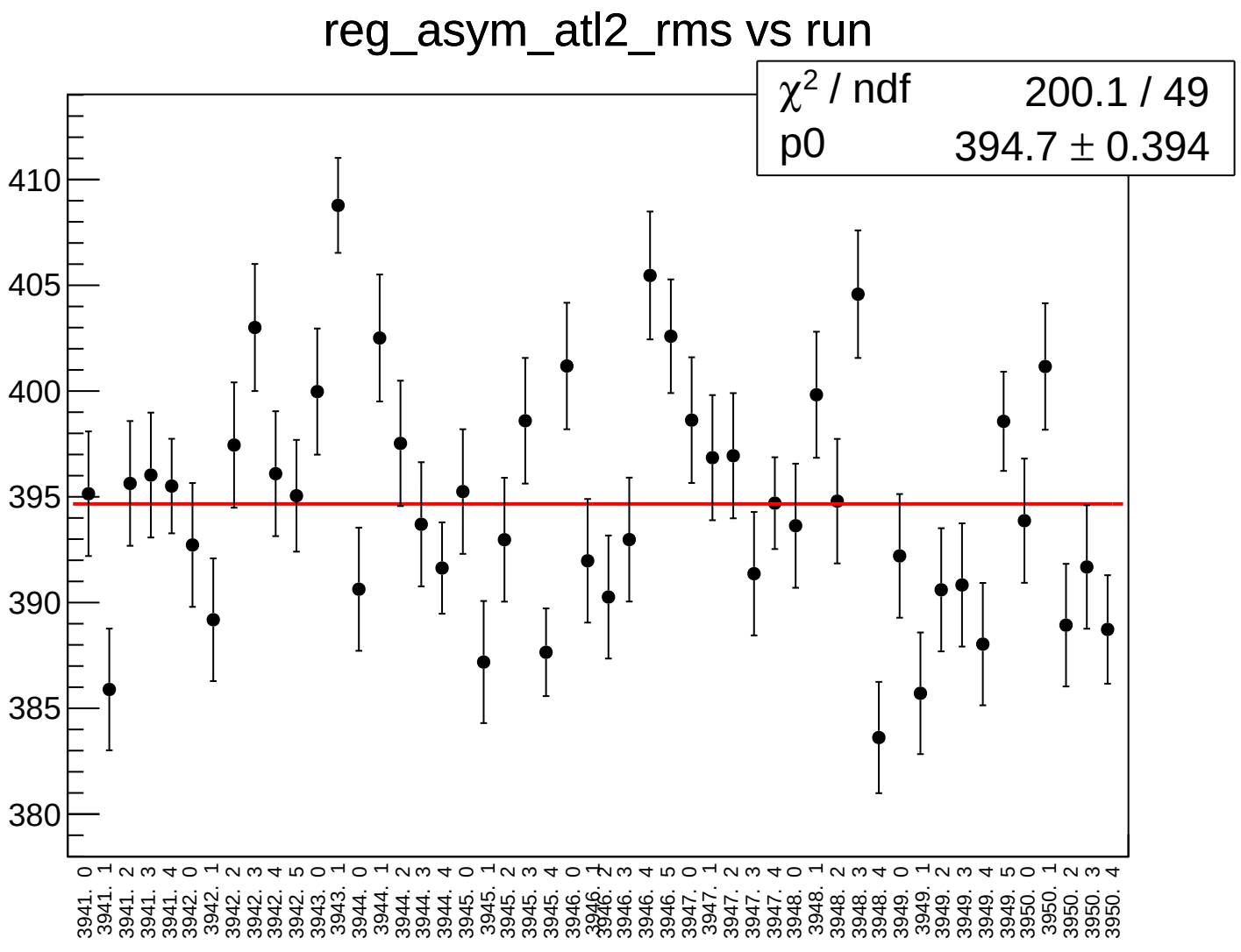

asym_atl1_mean vs run
×10^3
χ² / ndf 48.54 / 49
p0 −1857 ± 1638
50
0
−50
−100
−150
−200
−250
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4
pull
Entries 50
Mean 14.6
Std Dev 25.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

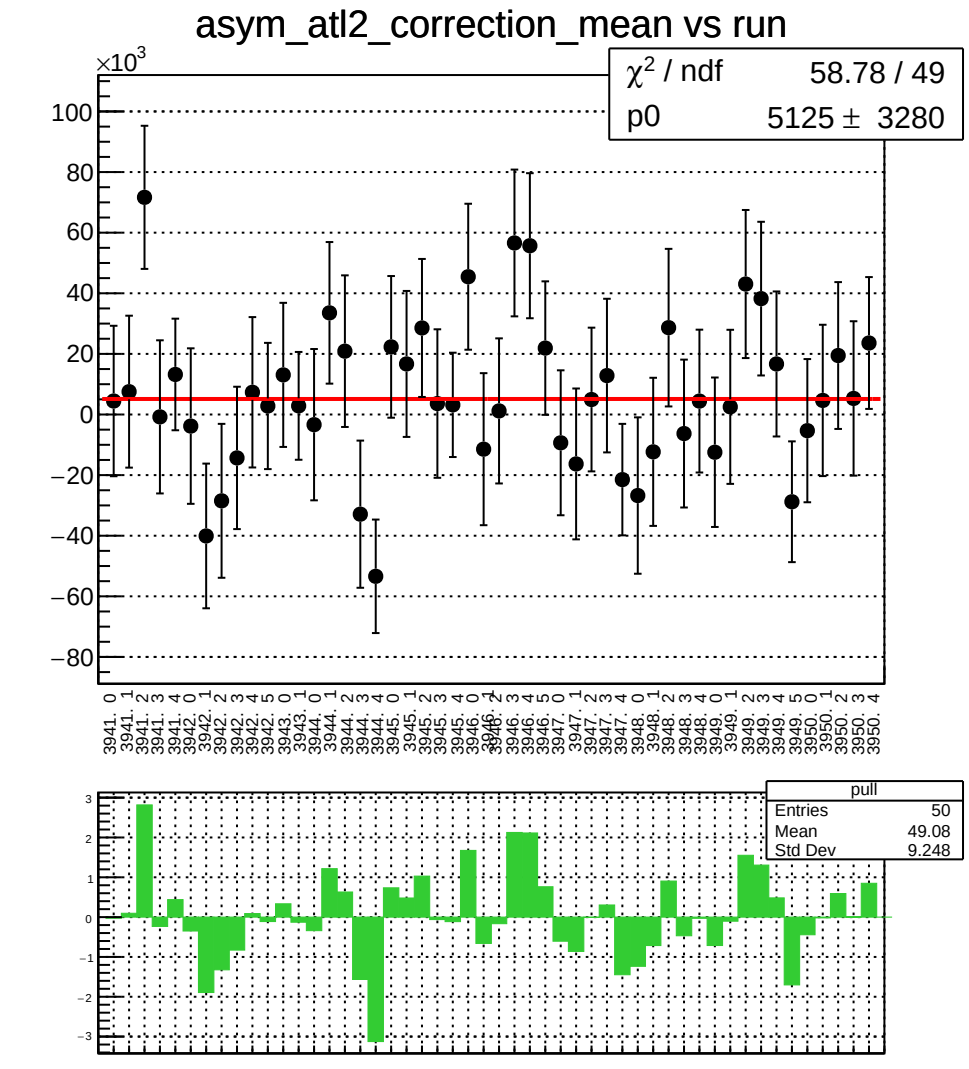

pull1D
Entries 50
Mean −0.04978
Std Dev 0.984
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

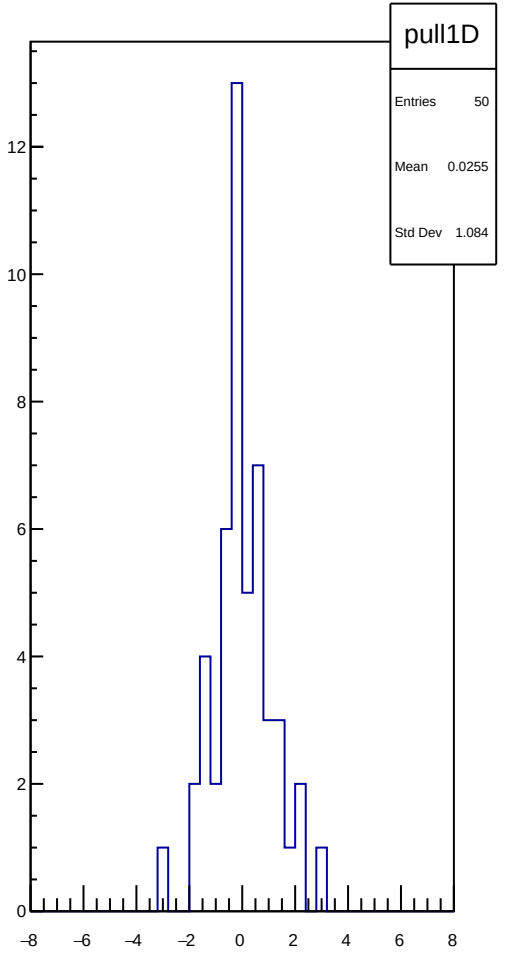

asym_atl1_rms vs run
$\chi^2$ / ndf 6.303e+04 / 49
p0 1123 ± 1.158
10000
8000
6000
4000
2000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

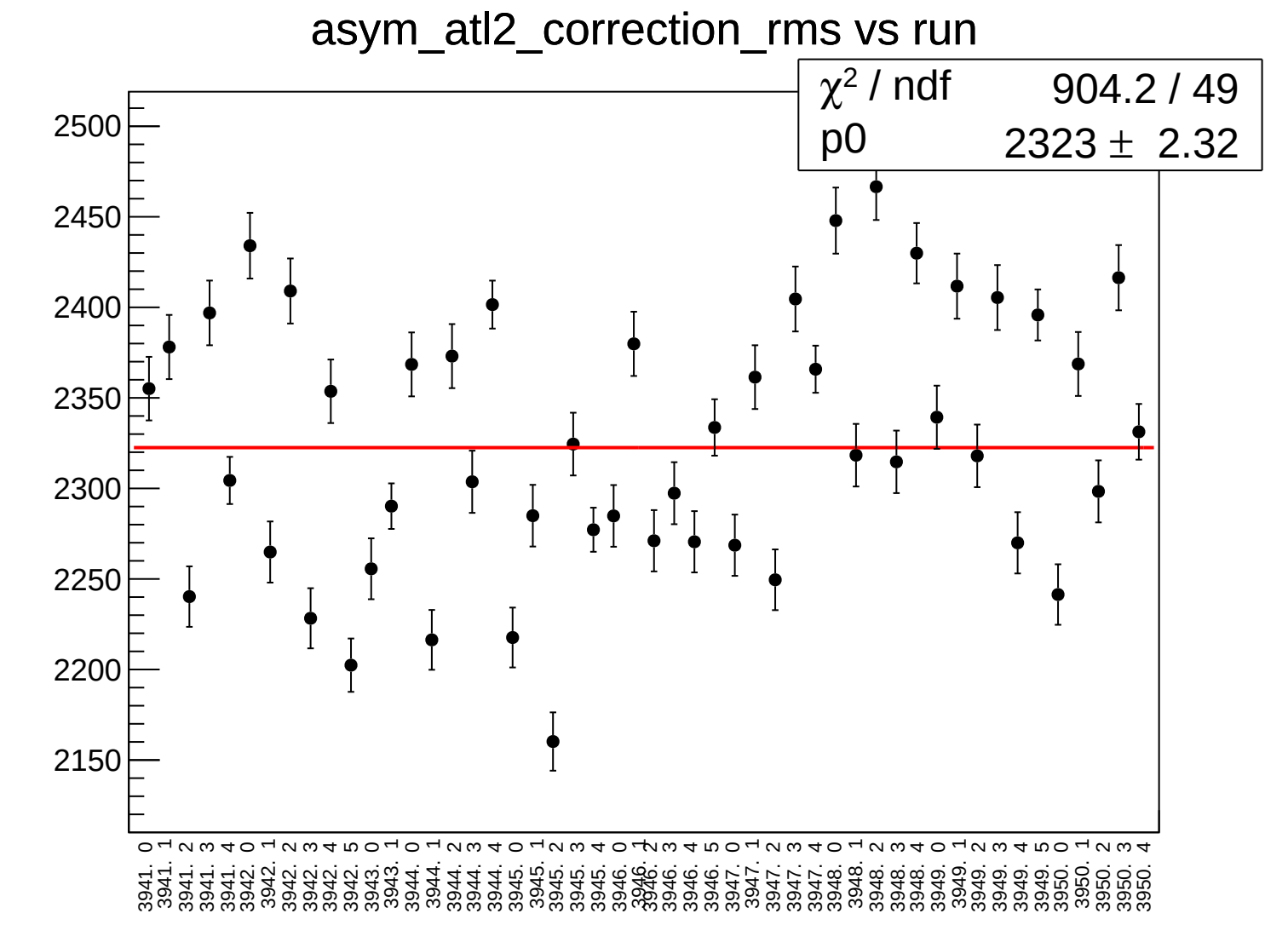

reg_asym_atl2_mean vs run
$\chi^2$ / ndf 41.59 / 49
p0 69.95 ± 557.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 50
Mean 188.3
Std Dev 164.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

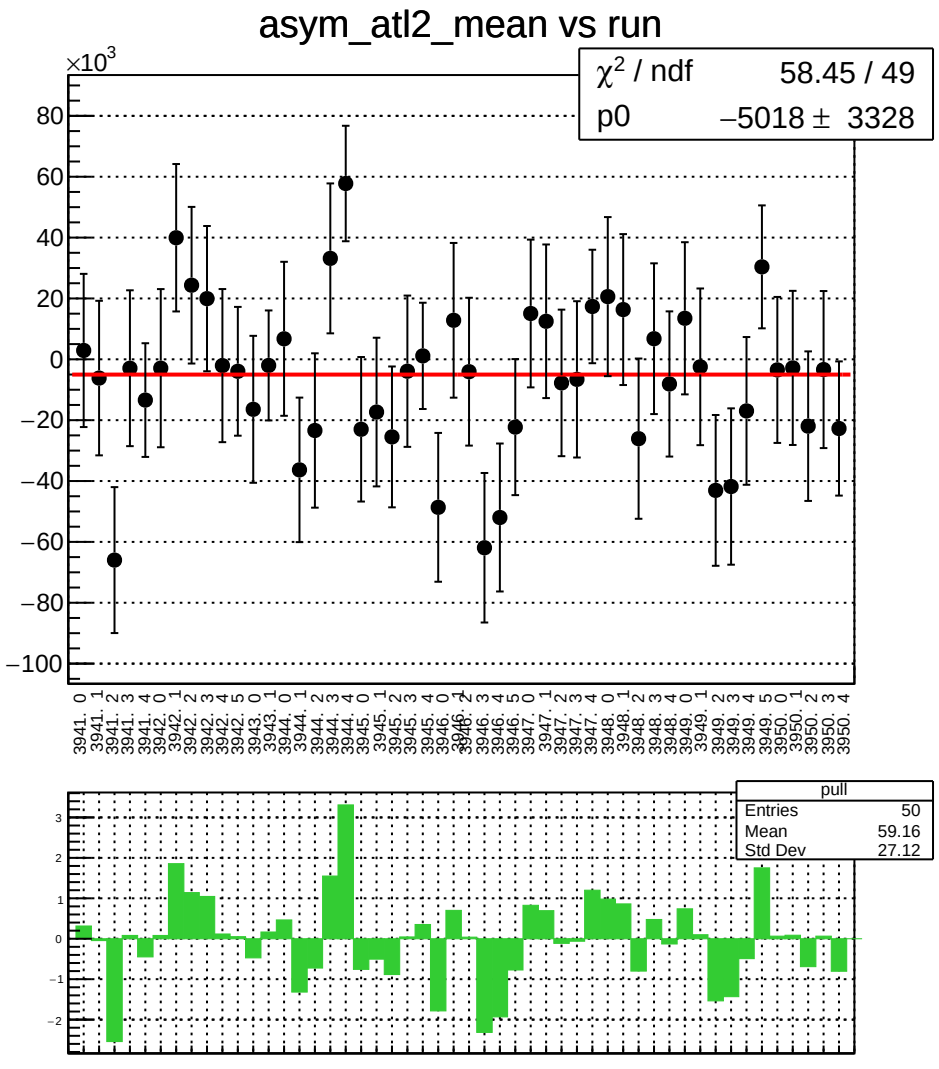

pull1D
Entries 50
Mean −0.01233
Std Dev 0.912
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

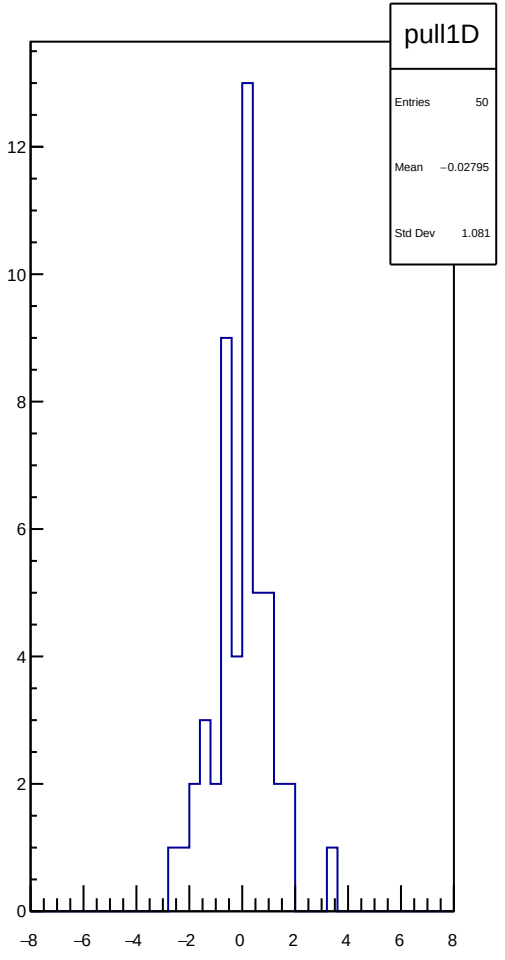

reg_asym_atl2_rms vs run
χ² / ndf 200.1 / 49
p0 394.7 ± 0.394
410
405
400
395
390
385
380
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

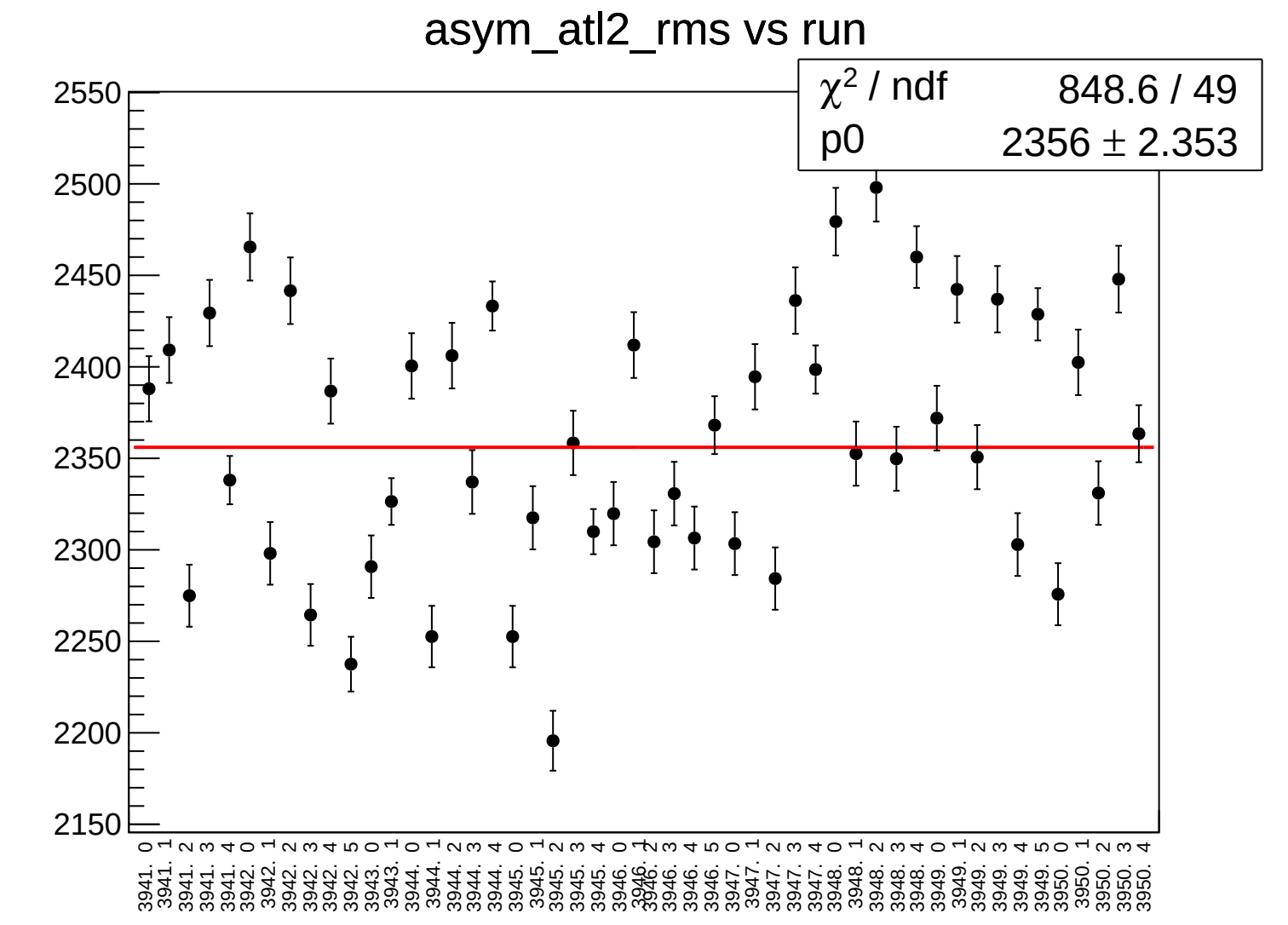

asym_atl2_correction_mean vs run
×10^3
χ^2 / ndf 58.78 / 49
p0 5125 ± 3280
pull
Entries 50
Mean 49.08
Std Dev 9.248

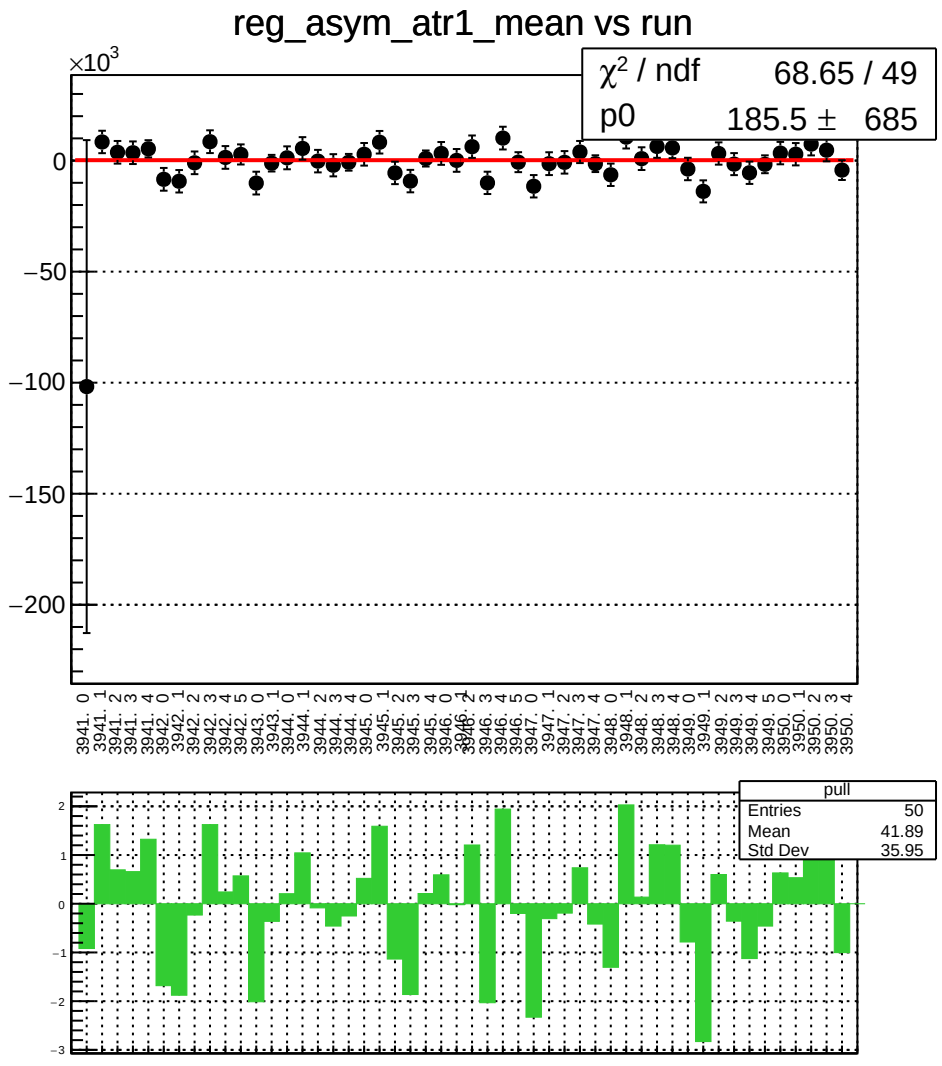

pull1D
Entries 50
Mean 0.0255
Std Dev 1.084

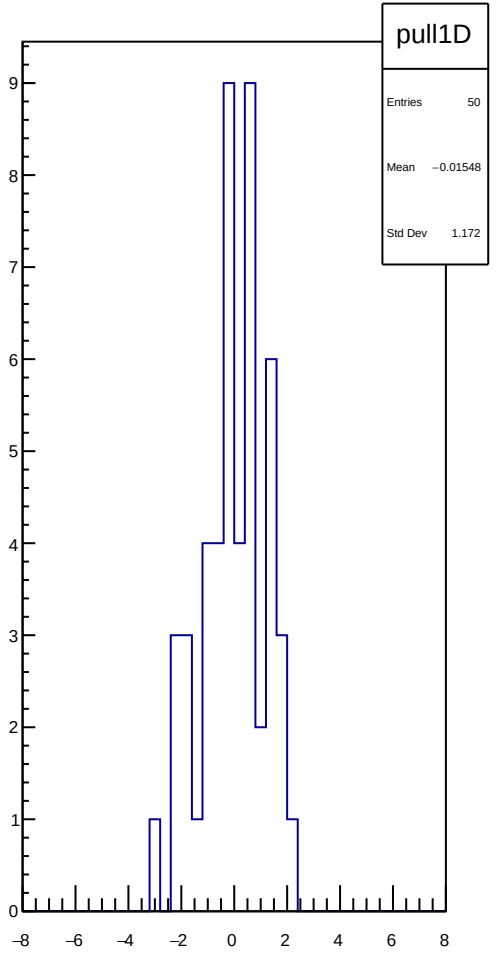

asym_atl2_correction_rms vs run
χ² / ndf 904.2 / 49
p0 2323 ± 2.32
2500
2450
2400
2350
2300
2250
2200
2150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

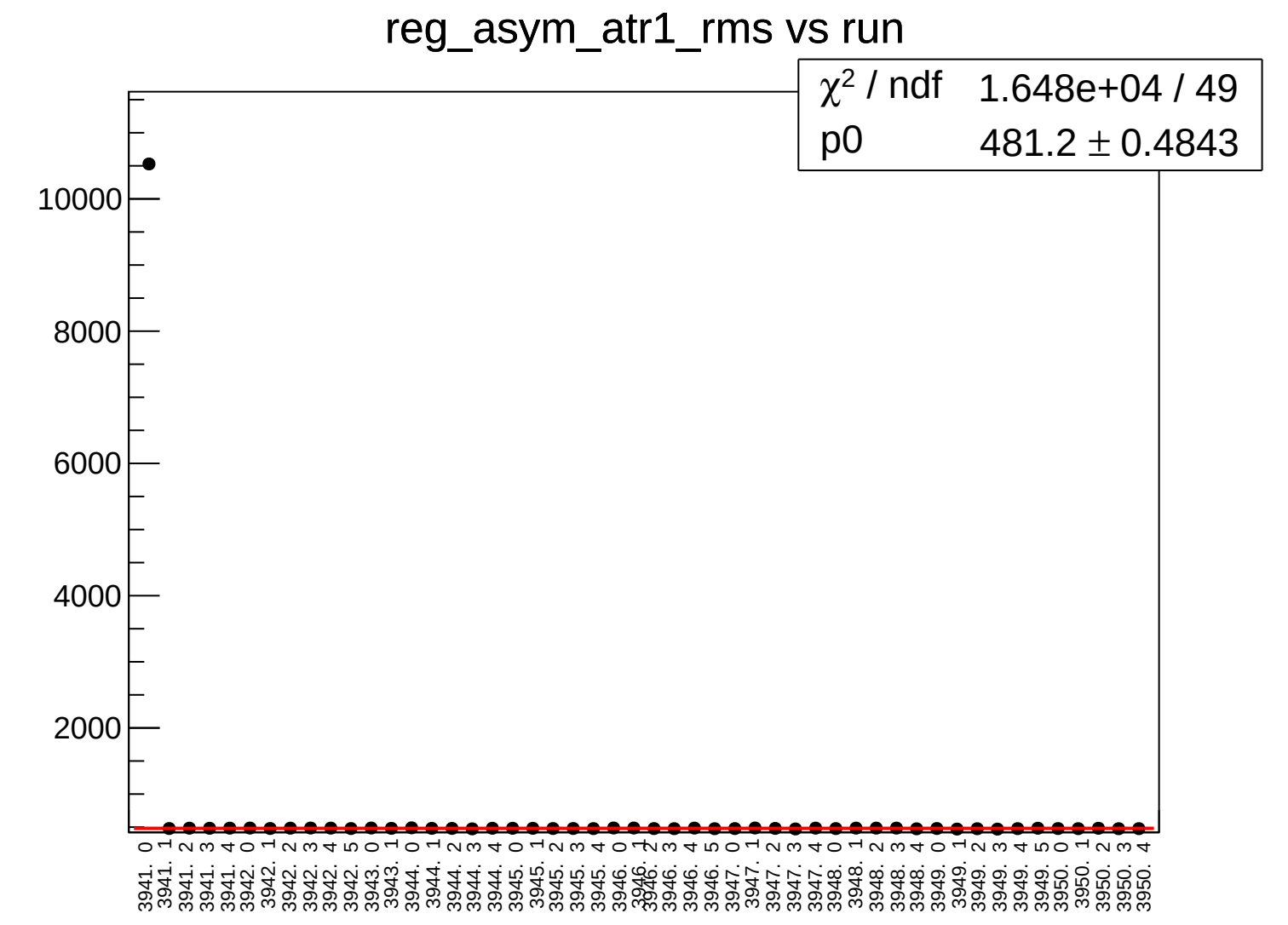

asym_atl2_mean vs run
$\chi^2$ / ndf 58.45 / 49
p0 −5018 ± 3328
×10^3
pull
Entries 50
Mean 59.16
Std Dev 27.12

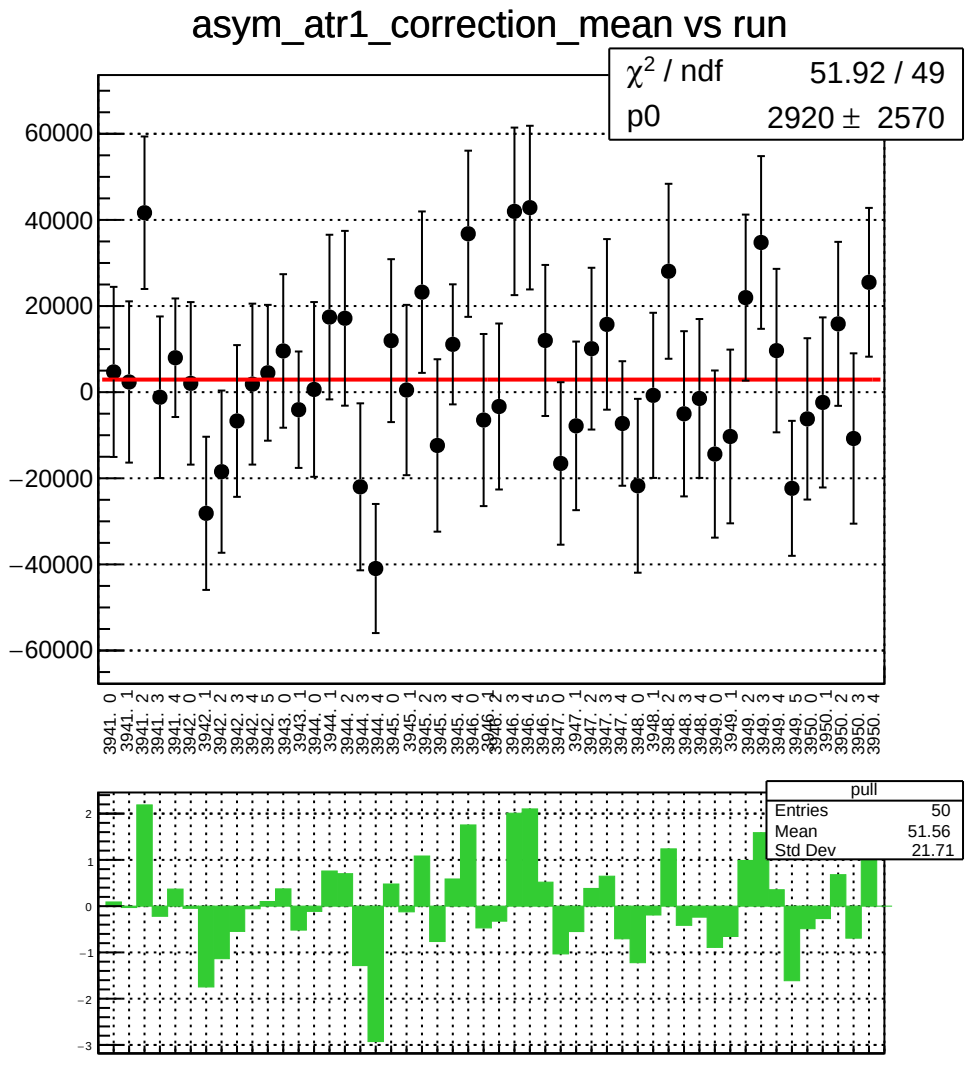

pull1D
Entries 50
Mean −0.02795
Std Dev 1.081

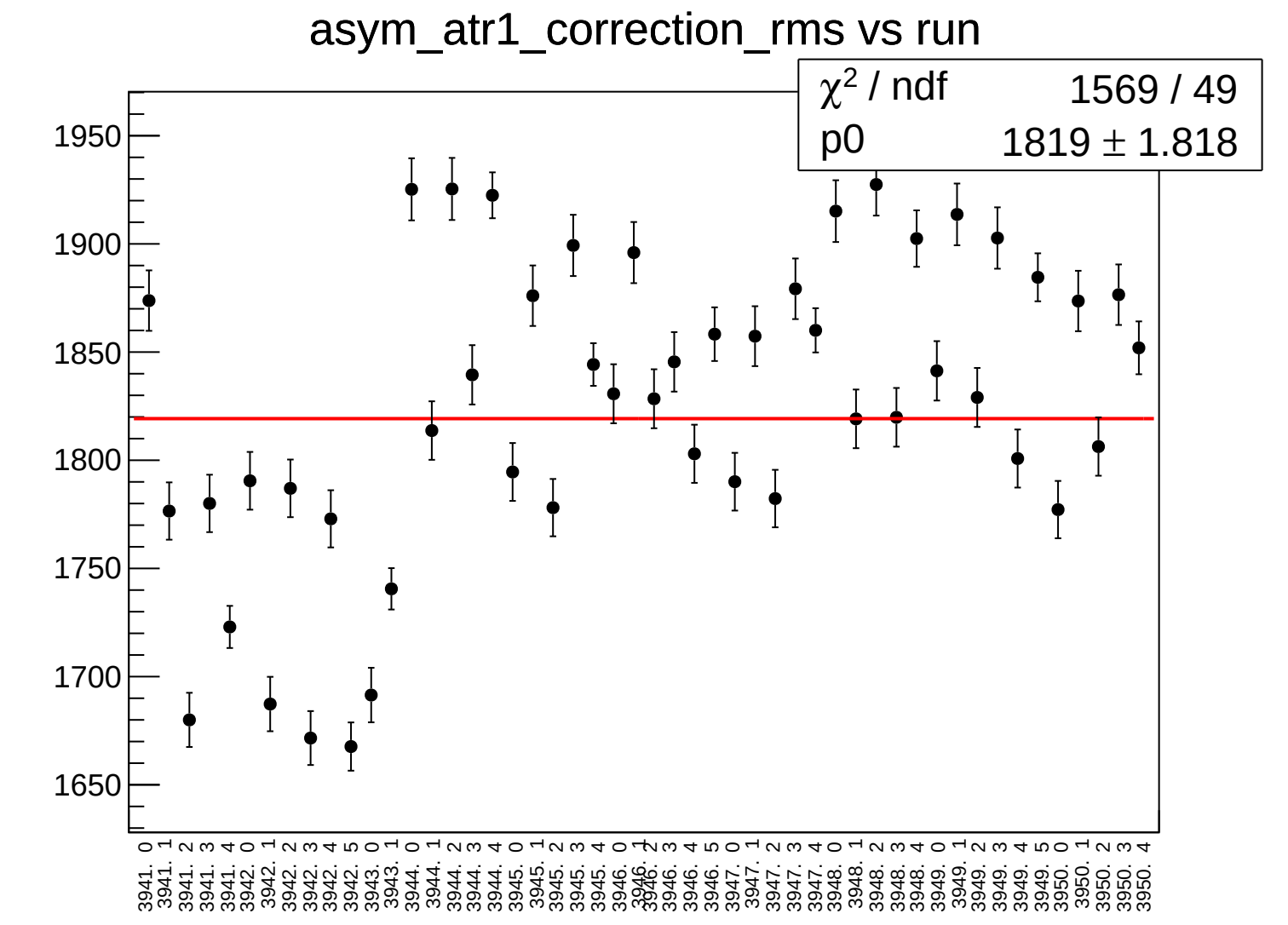

asym_atl2_rms vs run
χ² / ndf 848.6 / 49
p0 2356 ± 2.353
2550
2500
2450
2400
2350
2300
2250
2200
2150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

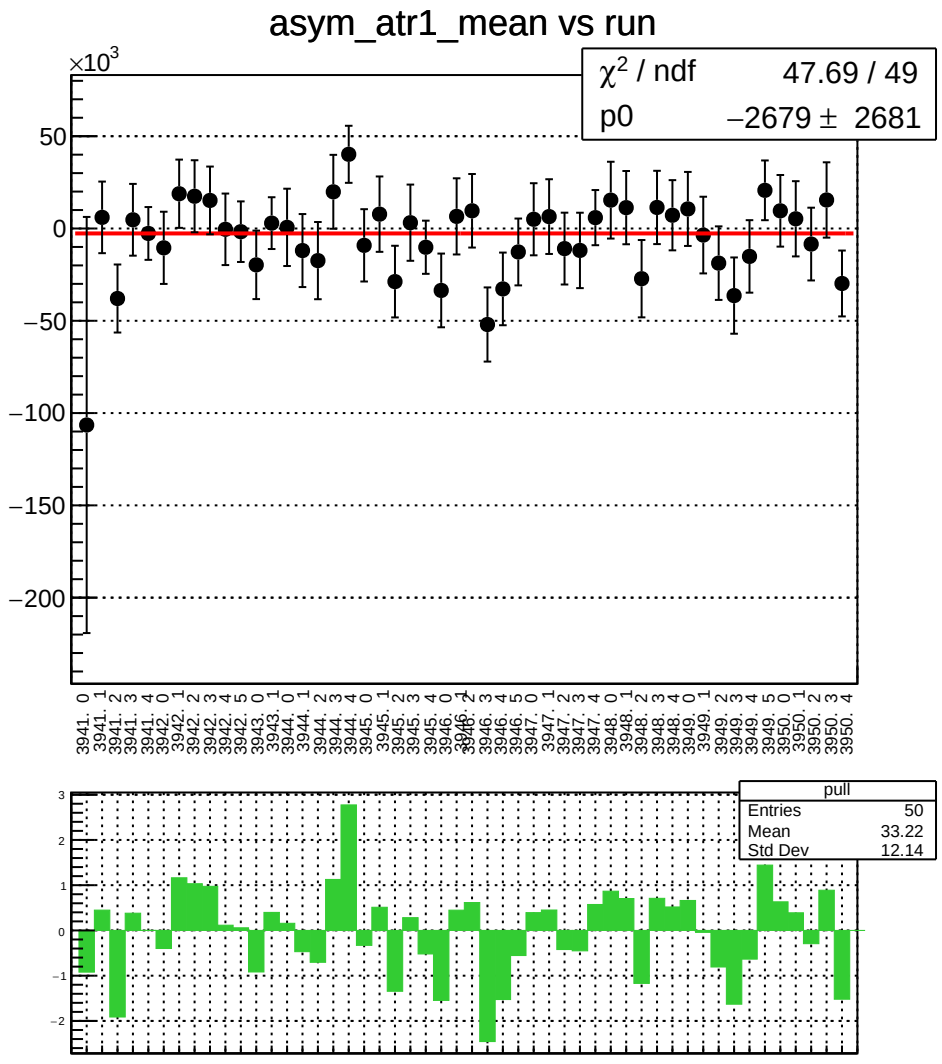

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 68.65 / 49
p0 185.5 ± 685
0
−50
−100
−150
−200
pull
Entries 50
Mean 41.89
Std Dev 35.95

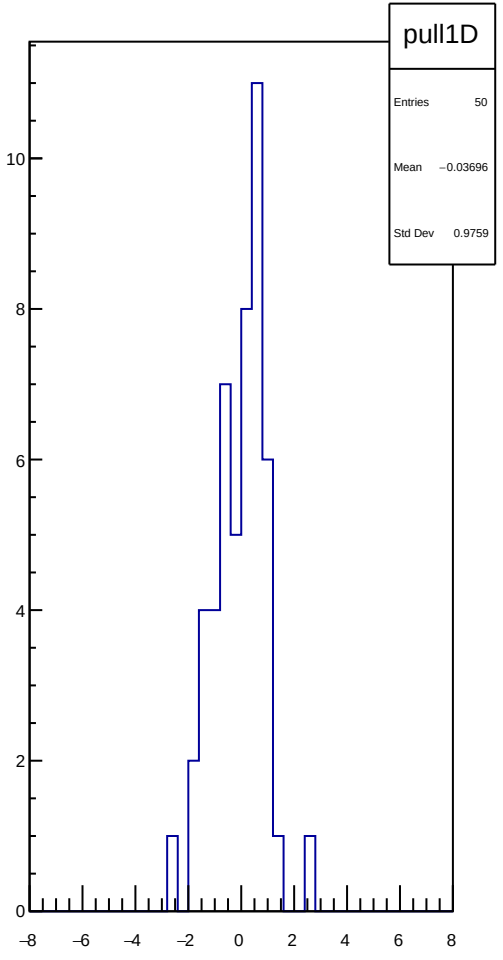

pull1D
Entries 50
Mean −0.01548
Std Dev 1.172

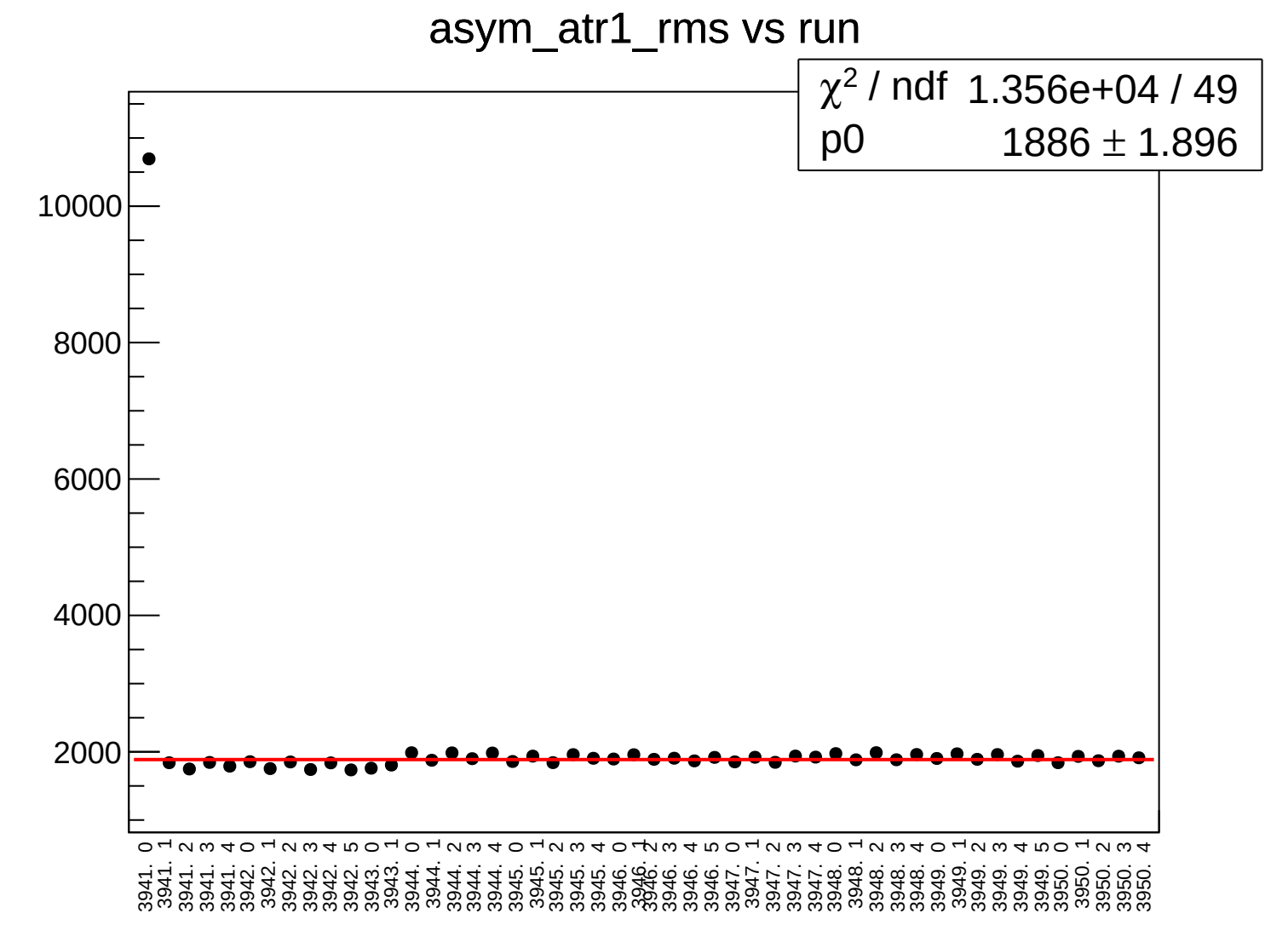

reg_asym_atr1_rms vs run
χ² / ndf 1.648e+04 / 49
p0 481.2 ± 0.4843
10000
8000
6000
4000
2000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

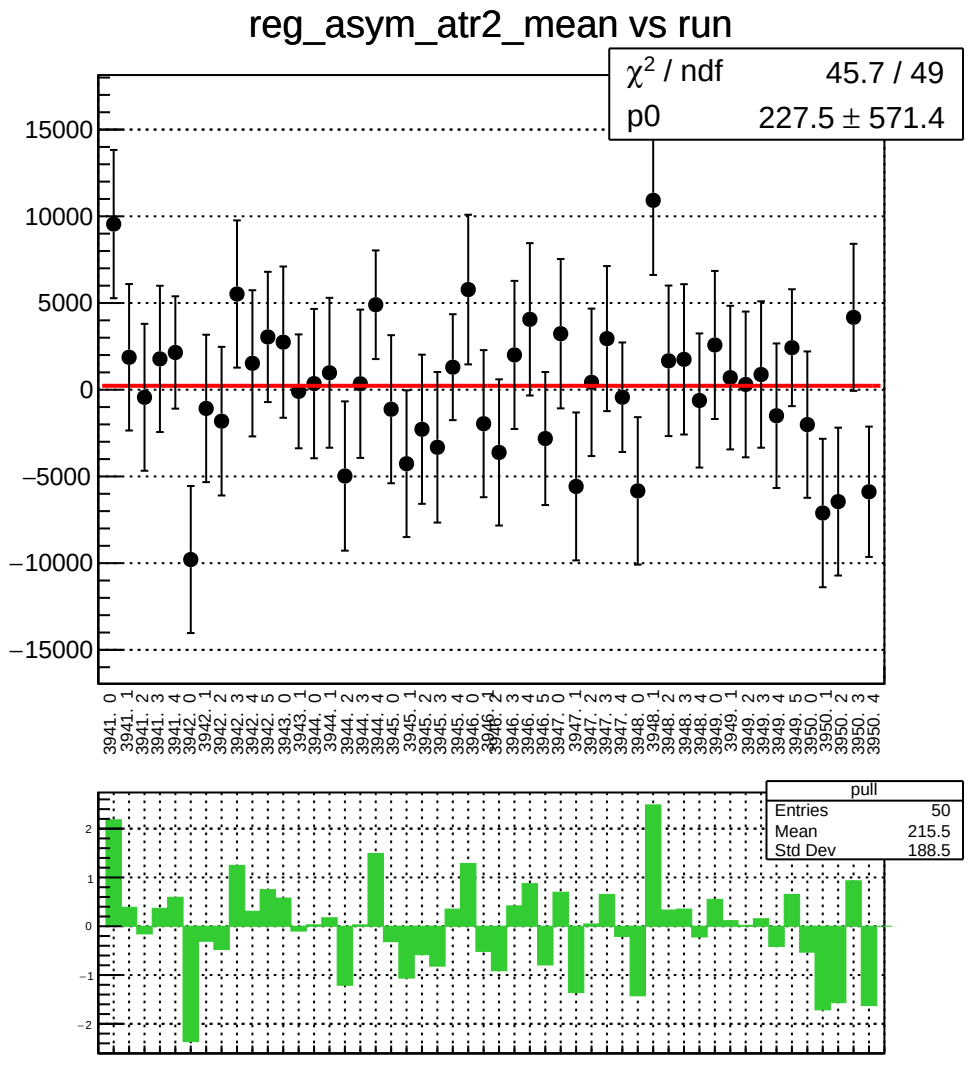

asym_atr1_correction_mean vs run
χ² / ndf 51.92 / 49
p0 2920 ± 2570
pull
Entries 50
Mean 51.56
Std Dev 21.71
pull1D
Entries 50
Mean 0.02082
Std Dev 1.019

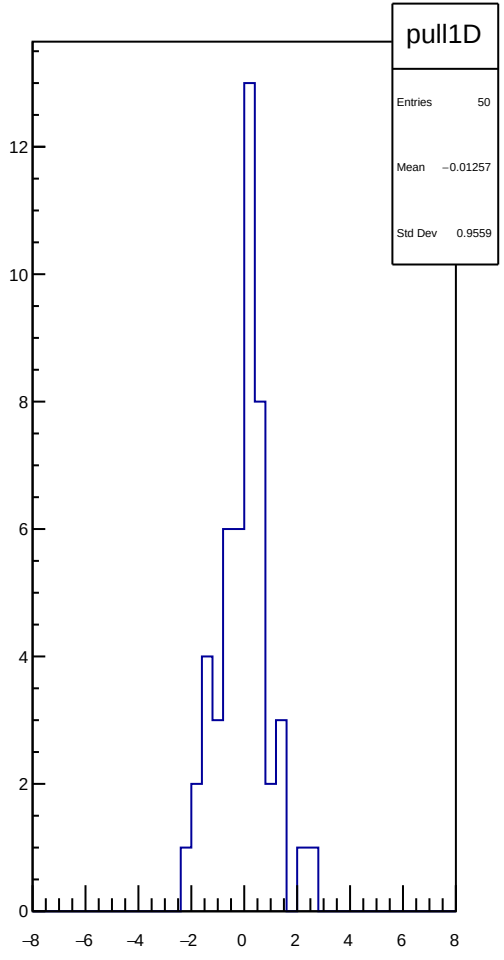

asym_atr1_correction_rms vs run
χ² / ndf 1569 / 49
p0 1819 ± 1.818
1950
1900
1850
1800
1750
1700
1650
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

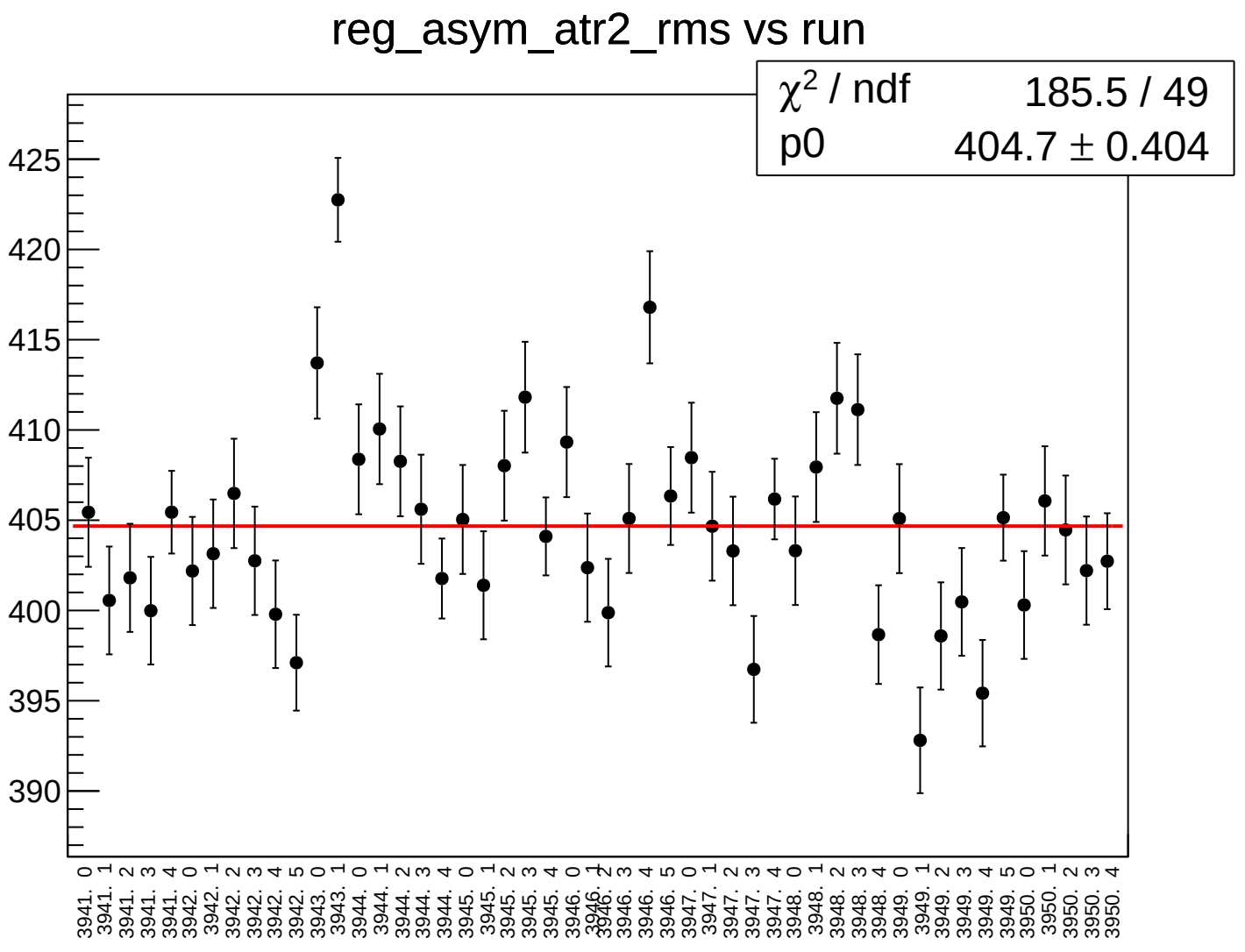

asym_atr1_mean vs run
×10^3
χ² / ndf 47.69 / 49
p0 −2679 ± 2681
50
0
−50
−100
−150
−200
pull
Entries 50
Mean 33.22
Std Dev 12.14
3
2
1
0
−1
−2

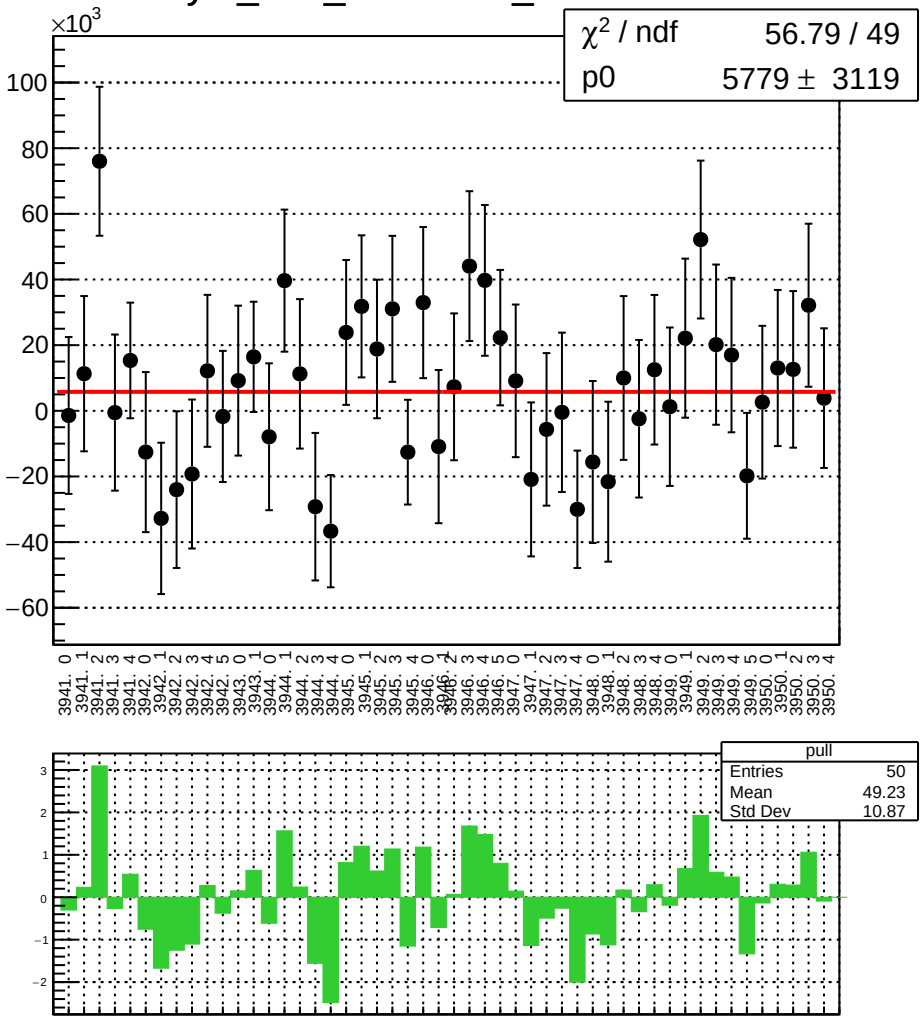

pull1D
Entries 50
Mean −0.03696
Std Dev 0.9759
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

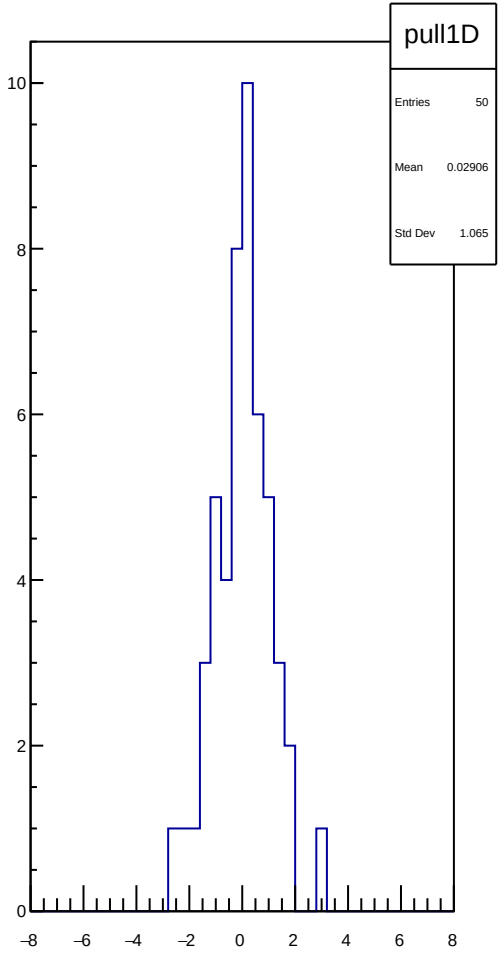

asym_atr1_rms vs run
χ² / ndf 1.356e+04 / 49
p0 1886 ± 1.896
10000
8000
6000
4000
2000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

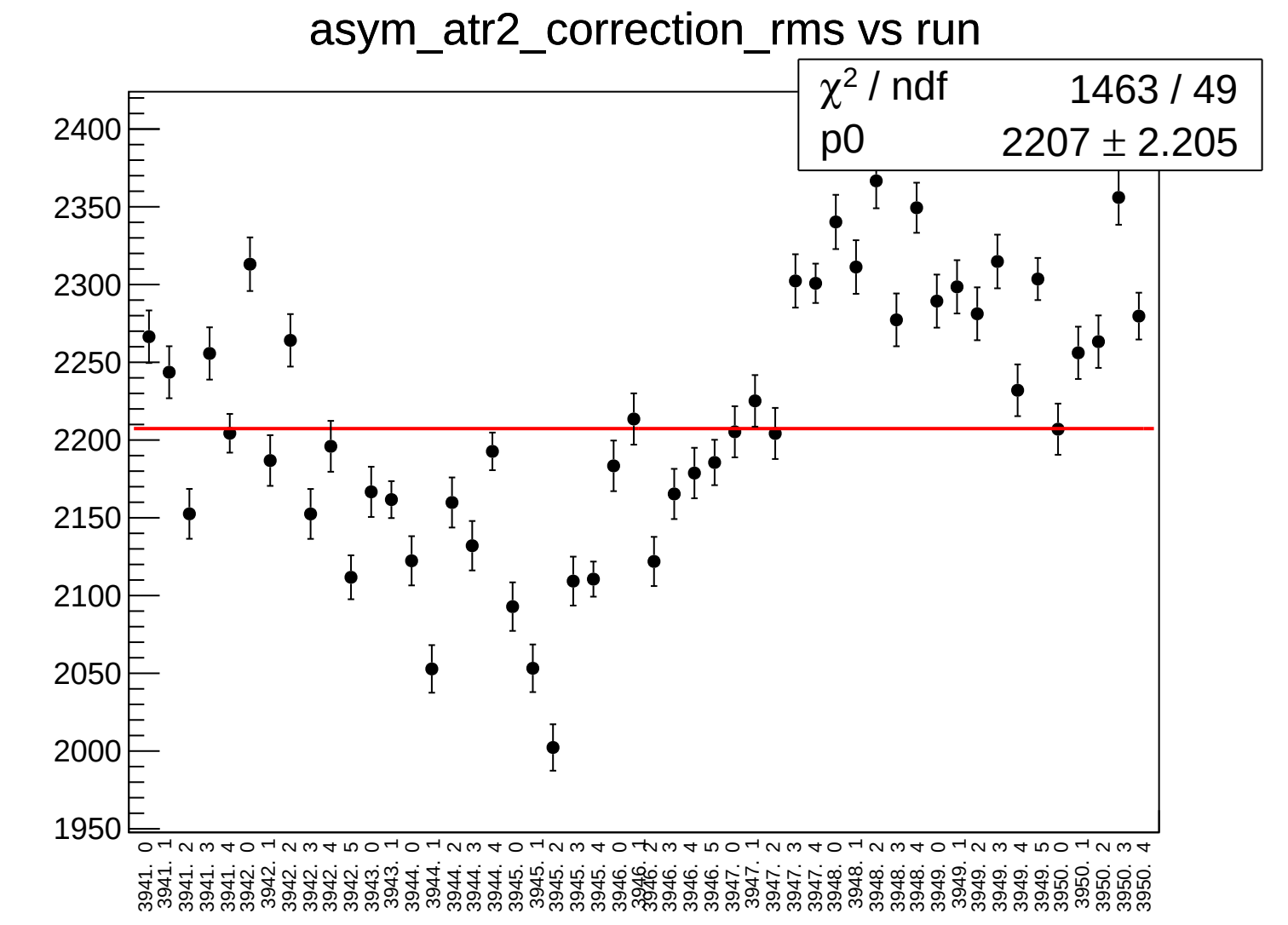

reg_asym_atr2_mean vs run
χ² / ndf 45.7 / 49
p0 227.5 ± 571.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 50
Mean 215.5
Std Dev 188.5
2
1
0
−1
−2

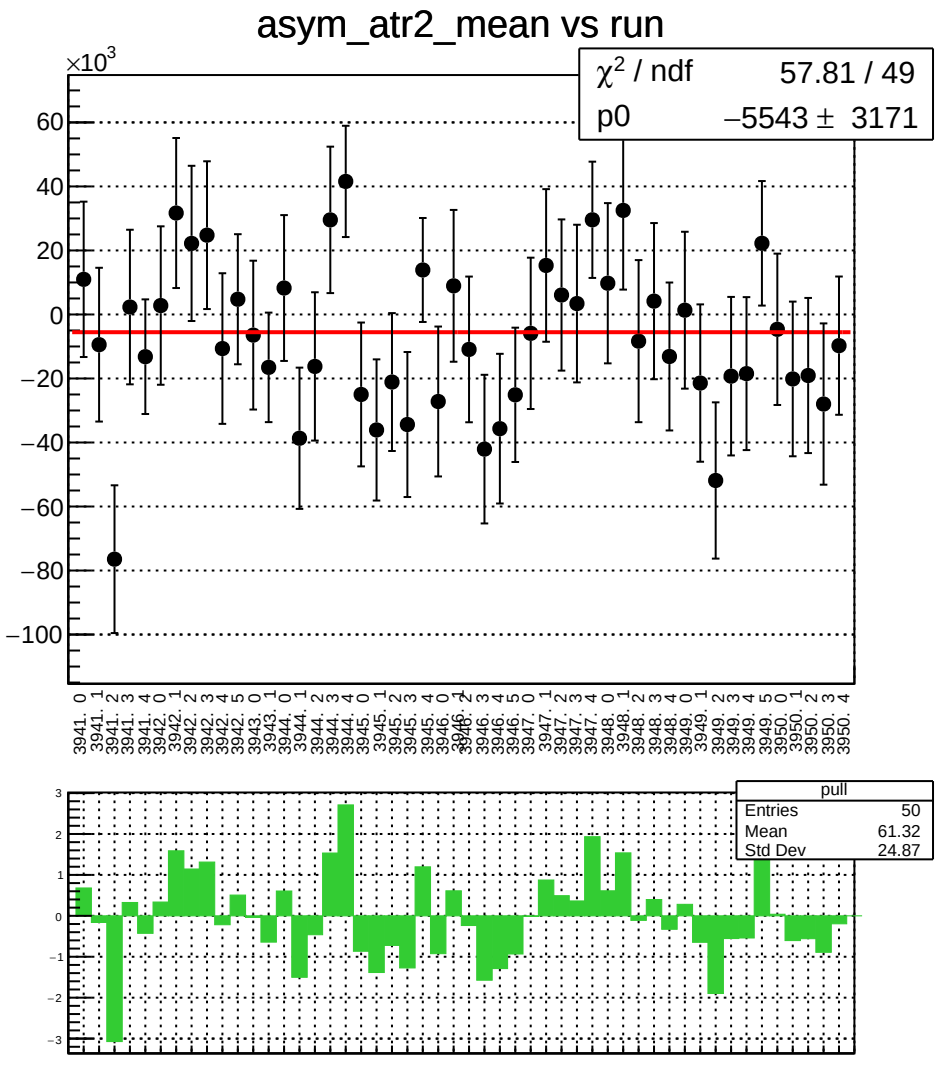

pull1D
Entries 50
Mean −0.01257
Std Dev 0.9559
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

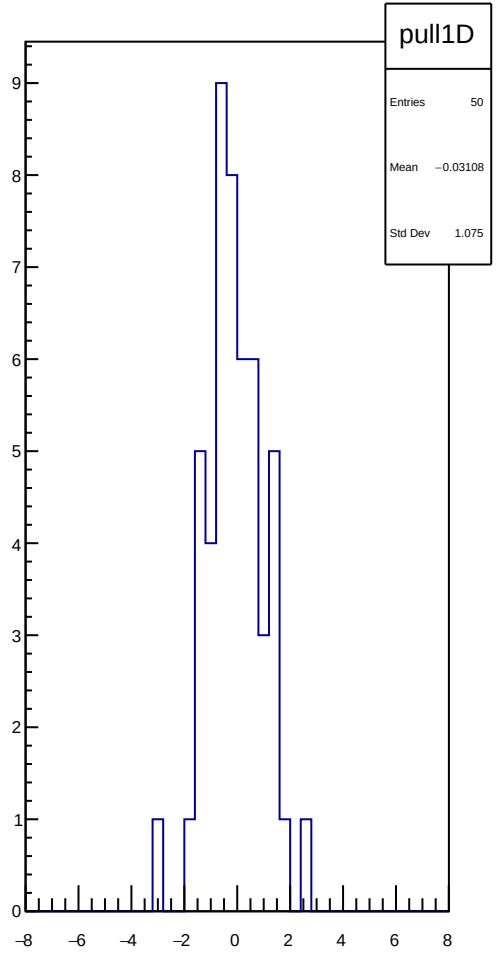

reg_asym_atr2_rms vs run
χ² / ndf 185.5 / 49
p0 404.7 ± 0.404
425
420
415
410
405
400
395
390
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

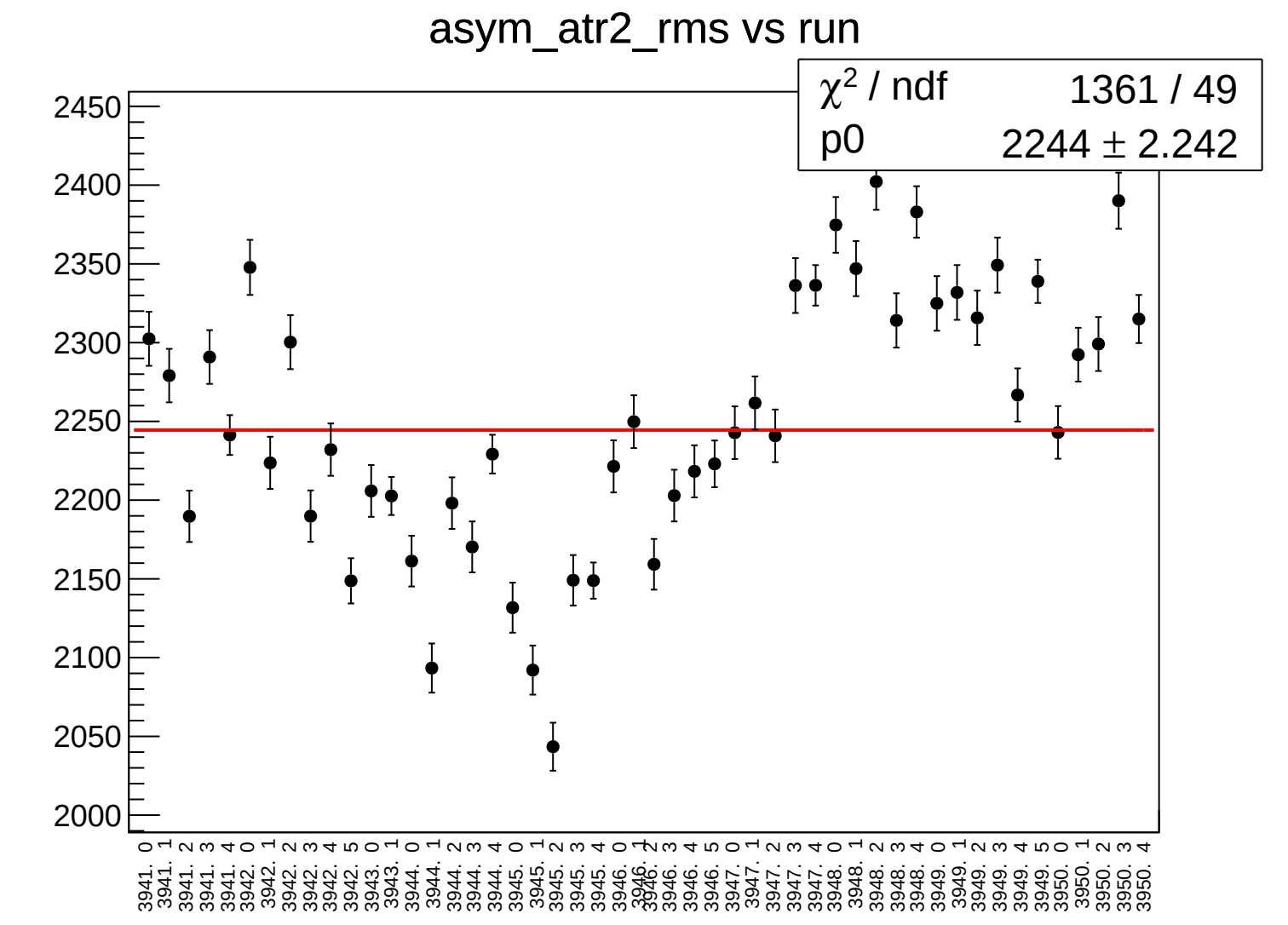

asym_atr2_correction_mean vs run
×10^3
χ^2 / ndf 56.79 / 49
p0 5779 ± 3119
pull
Entries 50
Mean 49.23
Std Dev 10.87

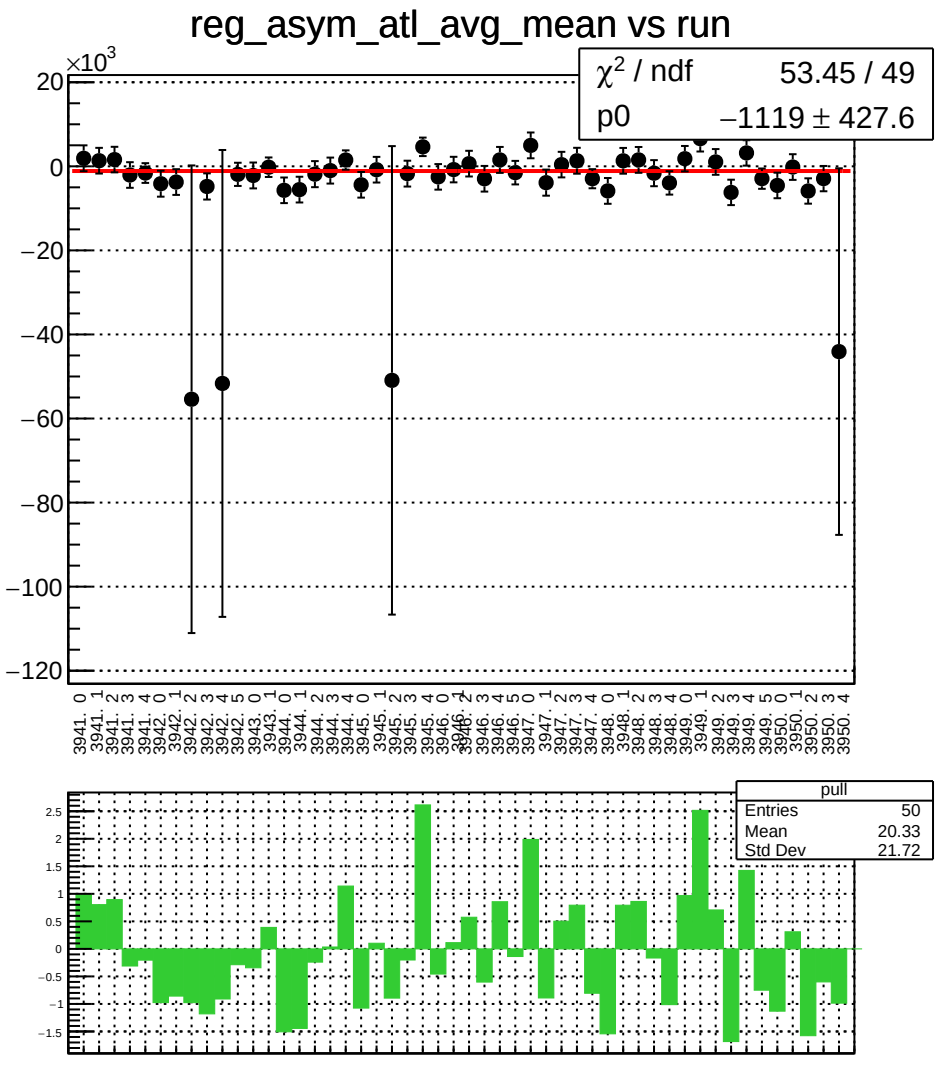

pull1D
Entries 50
Mean 0.02906
Std Dev 1.065

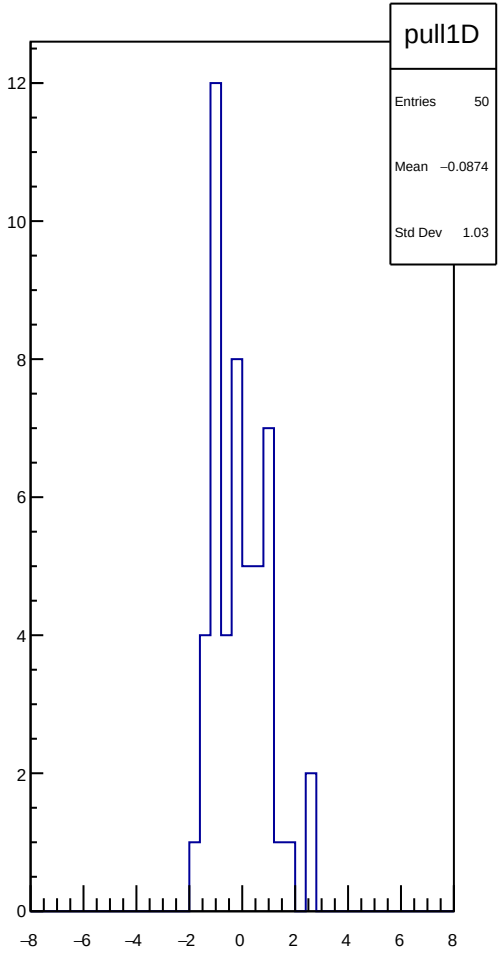

asym_atr2_correction_rms vs run
χ² / ndf 1463 / 49
p0 2207 ± 2.205
2400
2350
2300
2250
2200
2150
2100
2050
2000
1950
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

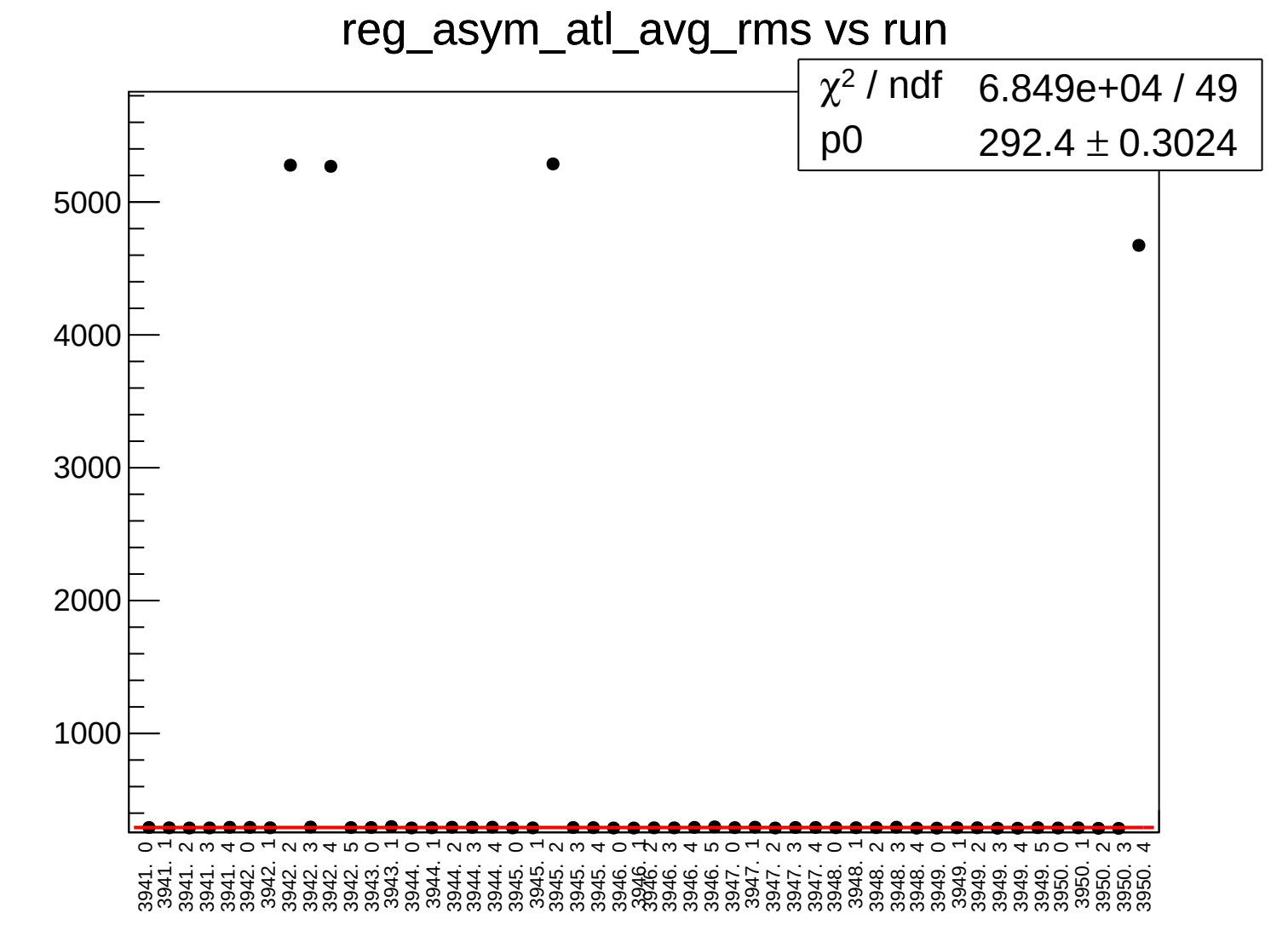

asym_atr2_mean vs run
×10^3
χ^2 / ndf 57.81 / 49
p0 −5543 ± 3171
pull
Entries 50
Mean 61.32
Std Dev 24.87

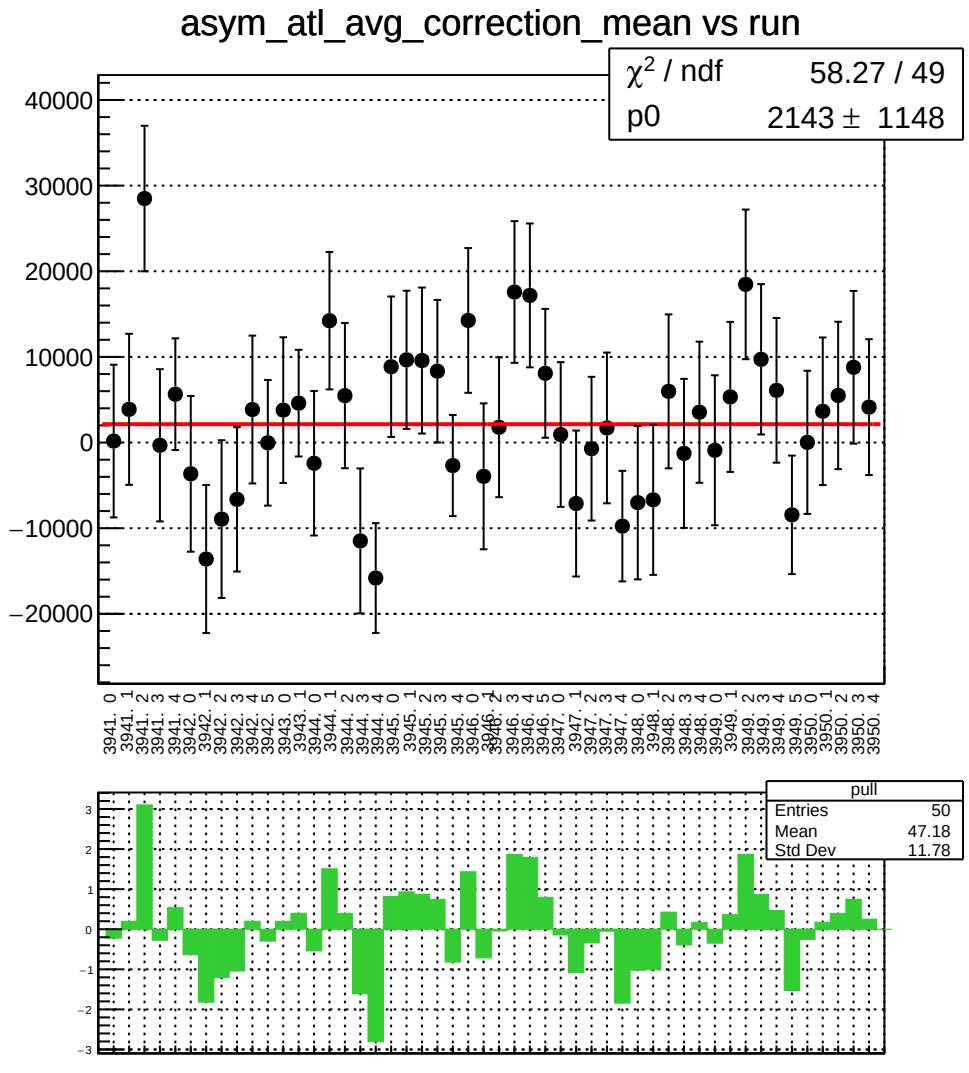

pull1D
Entries 50
Mean −0.03108
Std Dev 1.075

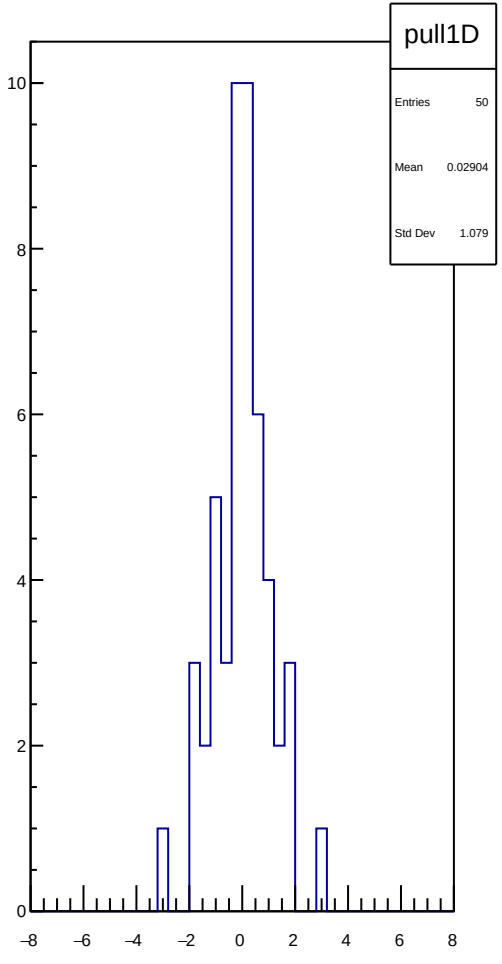

asym_atr2_rms vs run
χ² / ndf 1361 / 49
p0 2244 ± 2.242
2450
2400
2350
2300
2250
2200
2150
2100
2050
2000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

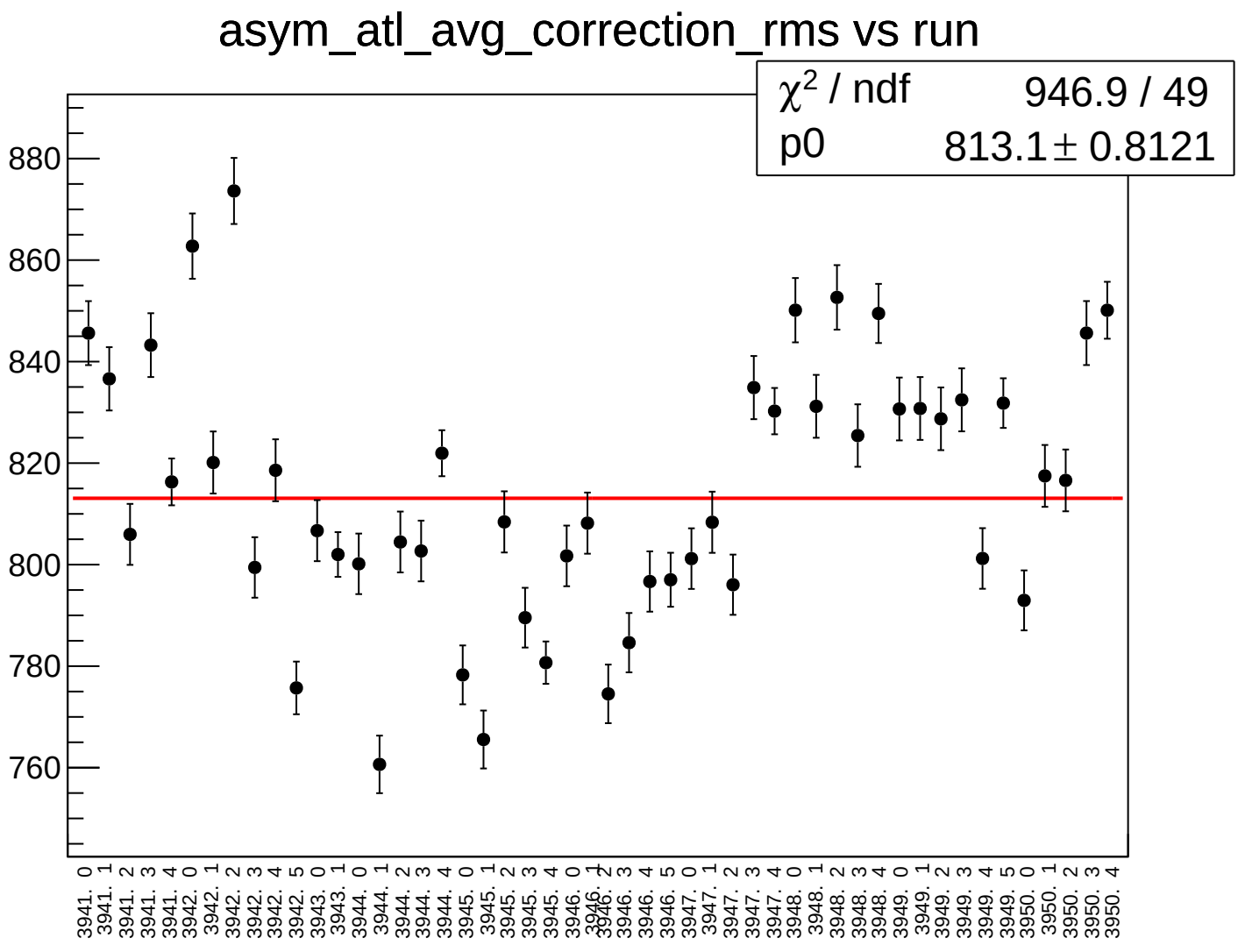

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 53.45 / 49
p0 −1119 ± 427.6
pull
Entries 50
Mean 20.33
Std Dev 21.72


pull1D
Entries 50
Mean −0.0874
Std Dev 1.03


reg_asym_atl_avg_rms vs run
χ² / ndf 6.849e+04 / 49
p0 292.4 ± 0.3024
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_atl_avg_correction_mean vs run
χ² / ndf 58.27 / 49
p0 2143 ± 1148
pull
Entries 50
Mean 47.18
Std Dev 11.78


pull1D
Entries 50
Mean 0.02904
Std Dev 1.079


asym_atl_avg_correction_rms vs run
$\chi^2$ / ndf 946.9 / 49
p0 813.1 ± 0.8121
880
860
840
820
800
780
760
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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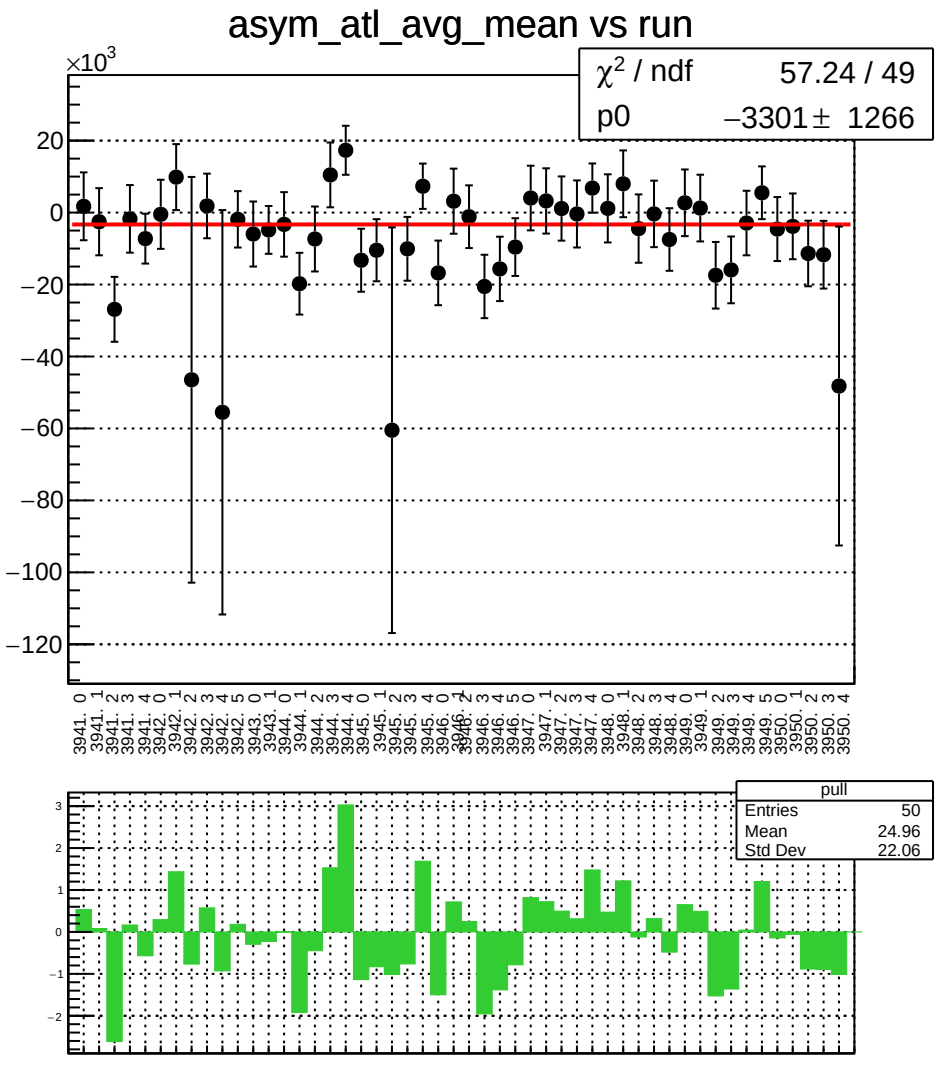
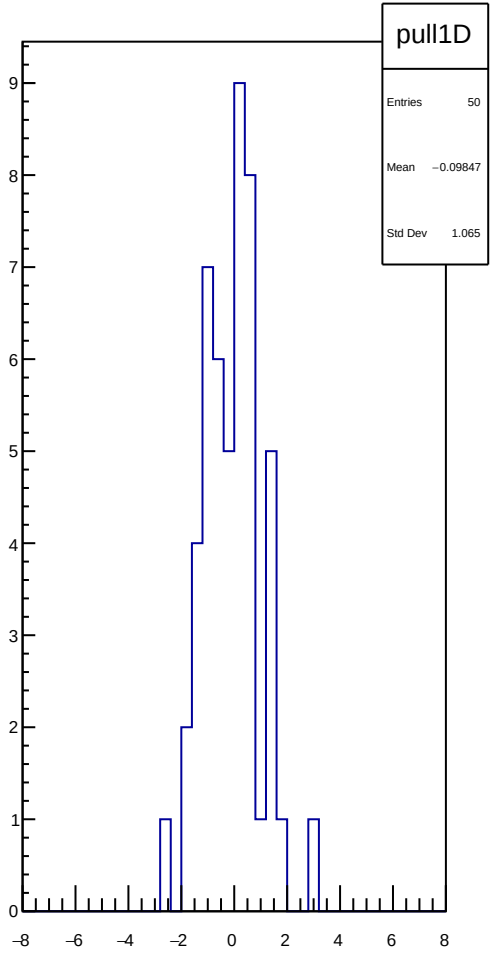
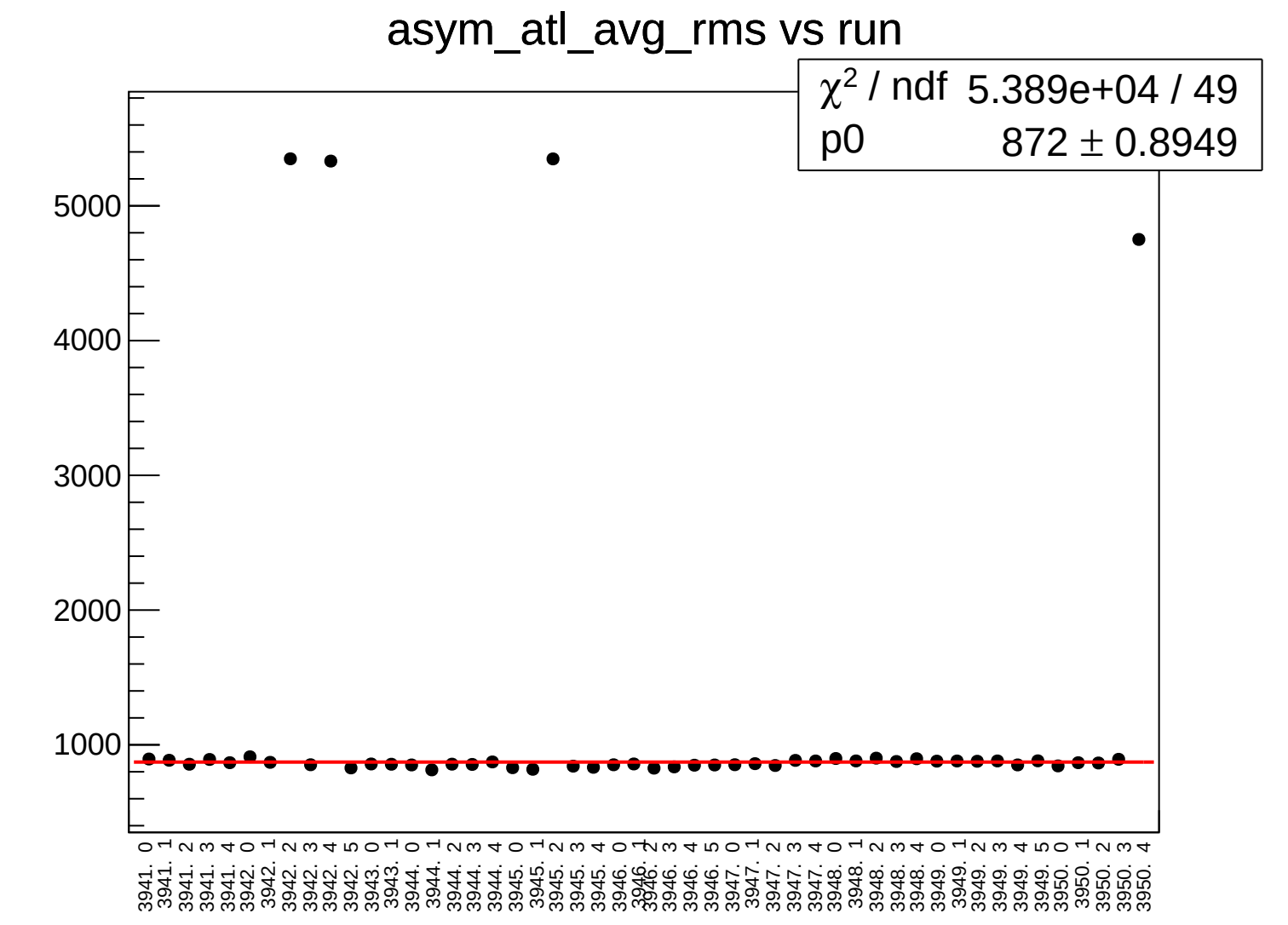
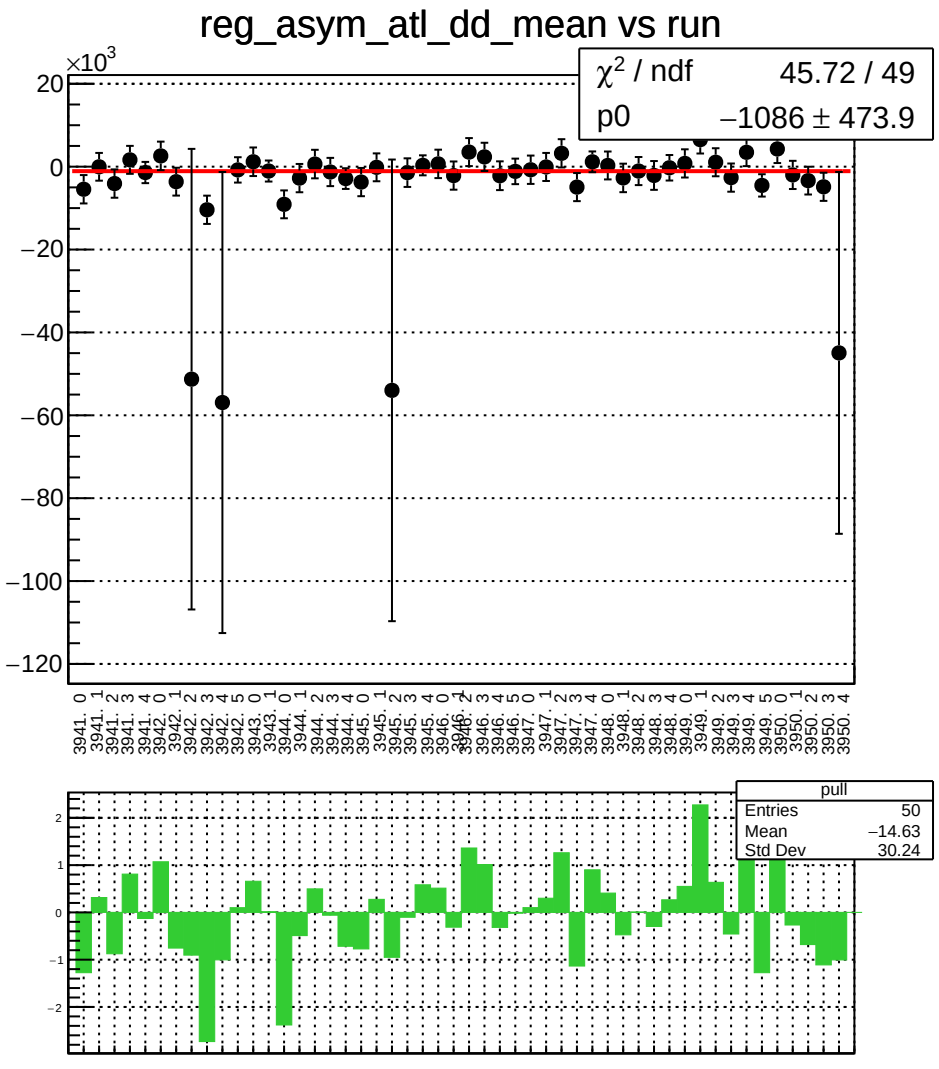
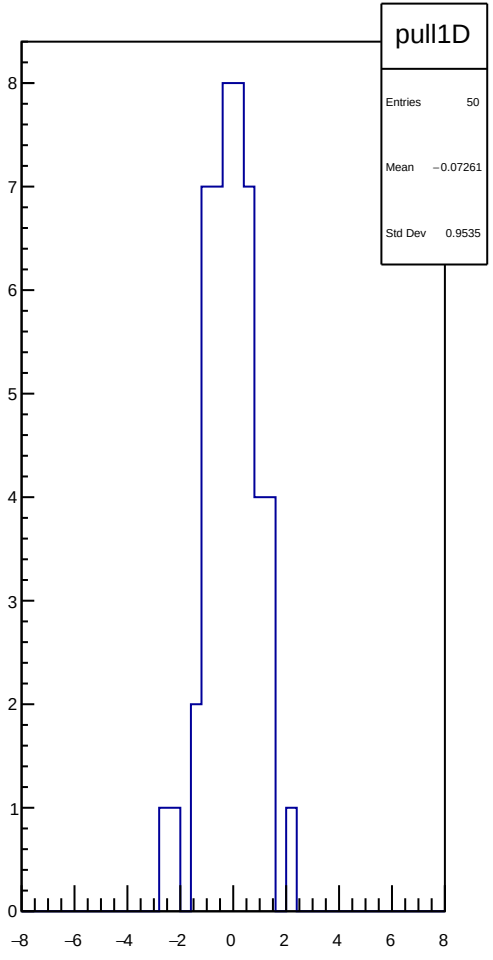
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

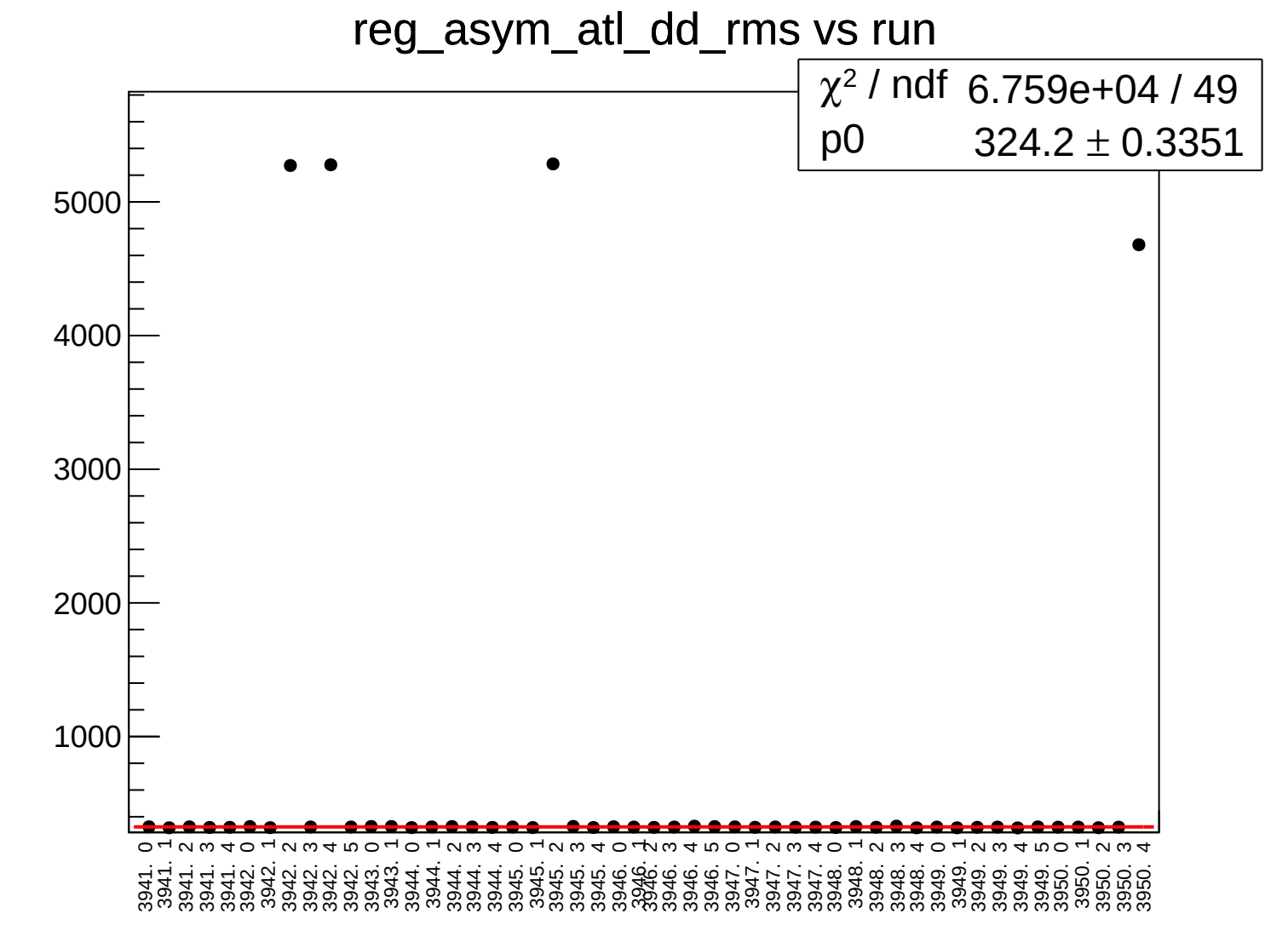

asym_atl_avg_mean vs run
×10^3
χ² / ndf 57.24 / 49
p0 −3301 ± 1266
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 50
Mean 24.96
Std Dev 22.06
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.09847
Std Dev 1.065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_rms vs run
$\chi^2$ / ndf 5.389e+04 / 49
p0 872 ± 0.8949
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 45.72 / 49
p0 −1086 ± 473.9
pull
Entries 50
Mean −14.63
Std Dev 30.24


pull1D
Entries 50
Mean −0.07261
Std Dev 0.9535


reg_asym_atl_dd_rms vs run
χ² / ndf 6.759e+04 / 49
p0 324.2 ± 0.3351
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
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3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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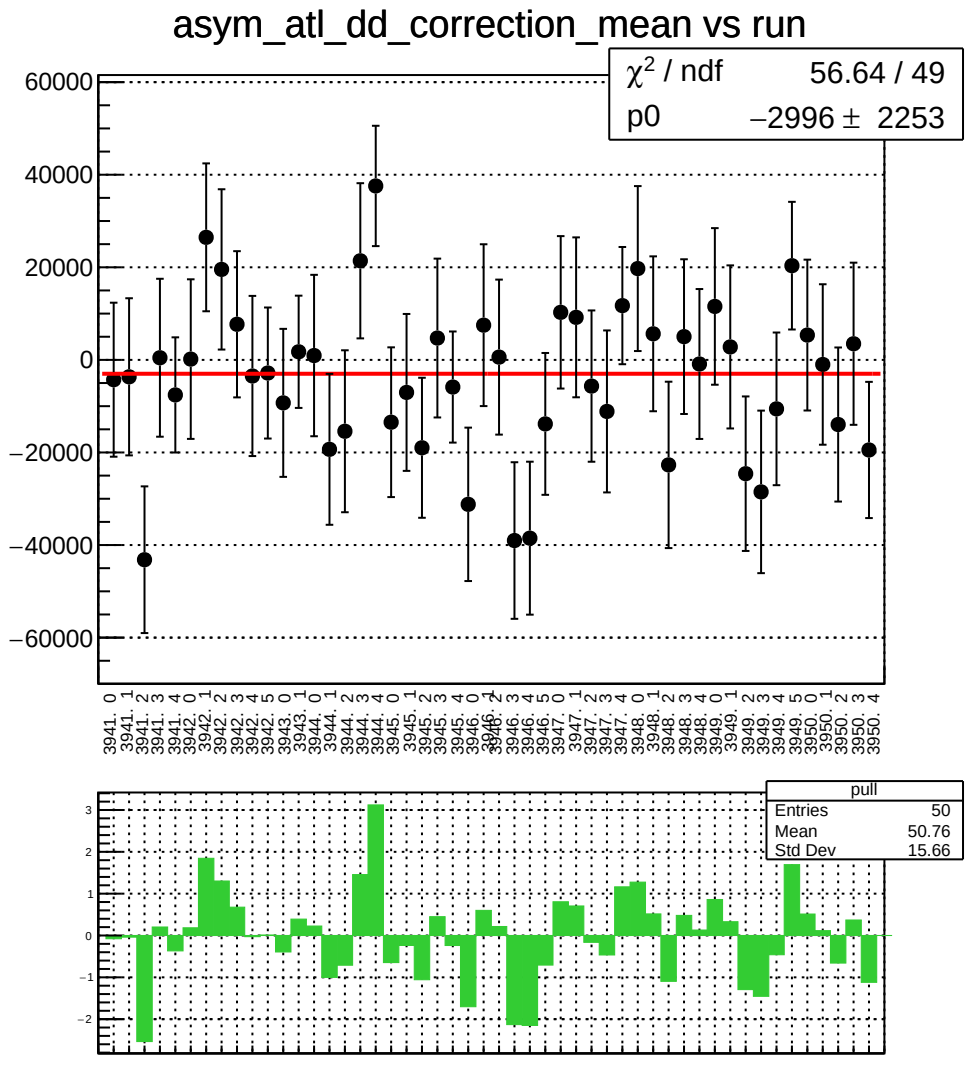
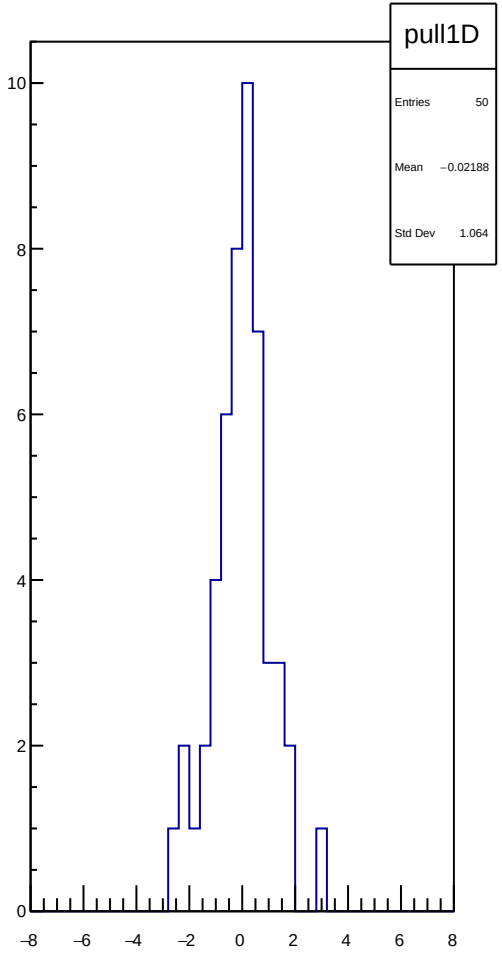
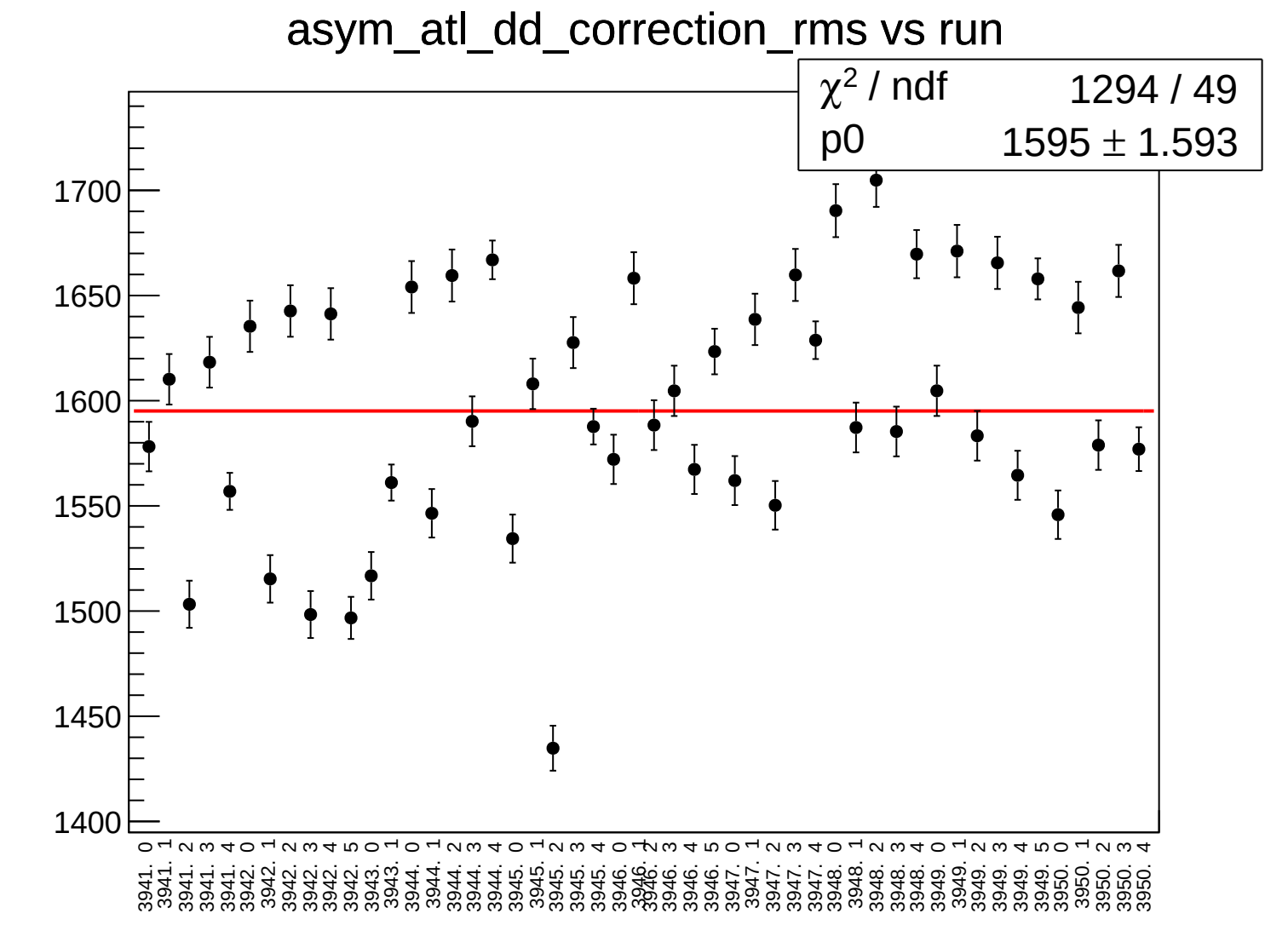
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_atl_dd_correction_mean vs run
χ² / ndf 56.64 / 49
p0 −2996 ± 2253
pull
Entries 50
Mean 50.76
Std Dev 15.66


pull1D
Entries 50
Mean −0.02188
Std Dev 1.064


asym_atl_dd_correction_rms vs run
χ² / ndf 1294 / 49
p0 1595 ± 1.593
1700
1650
1600
1550
1500
1450
1400
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 4
3949. 5
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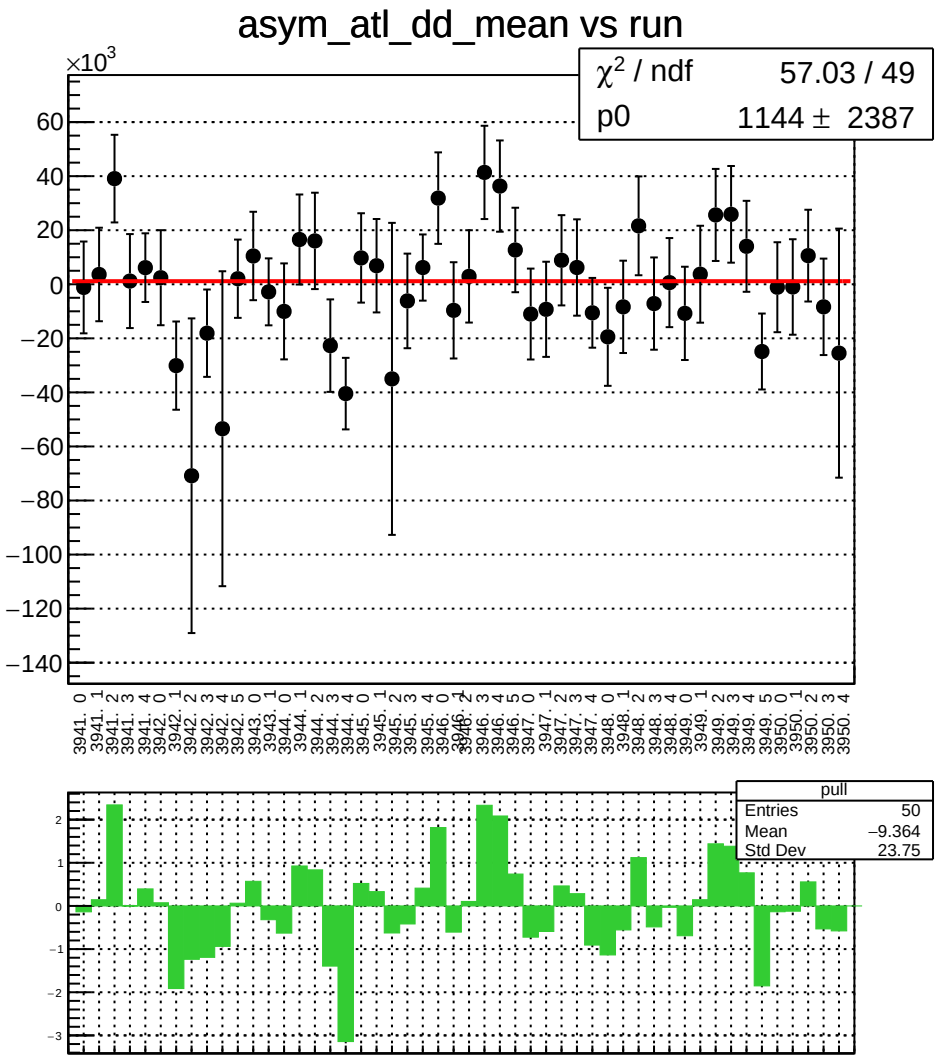
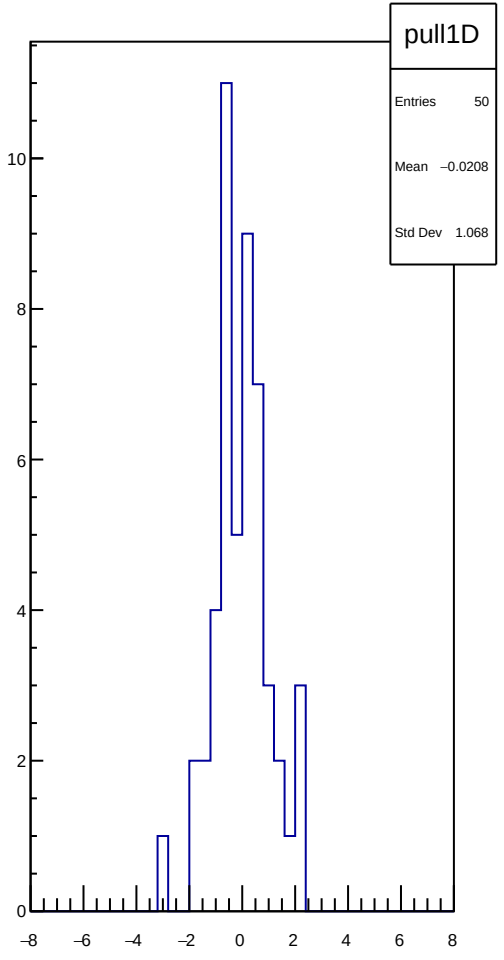
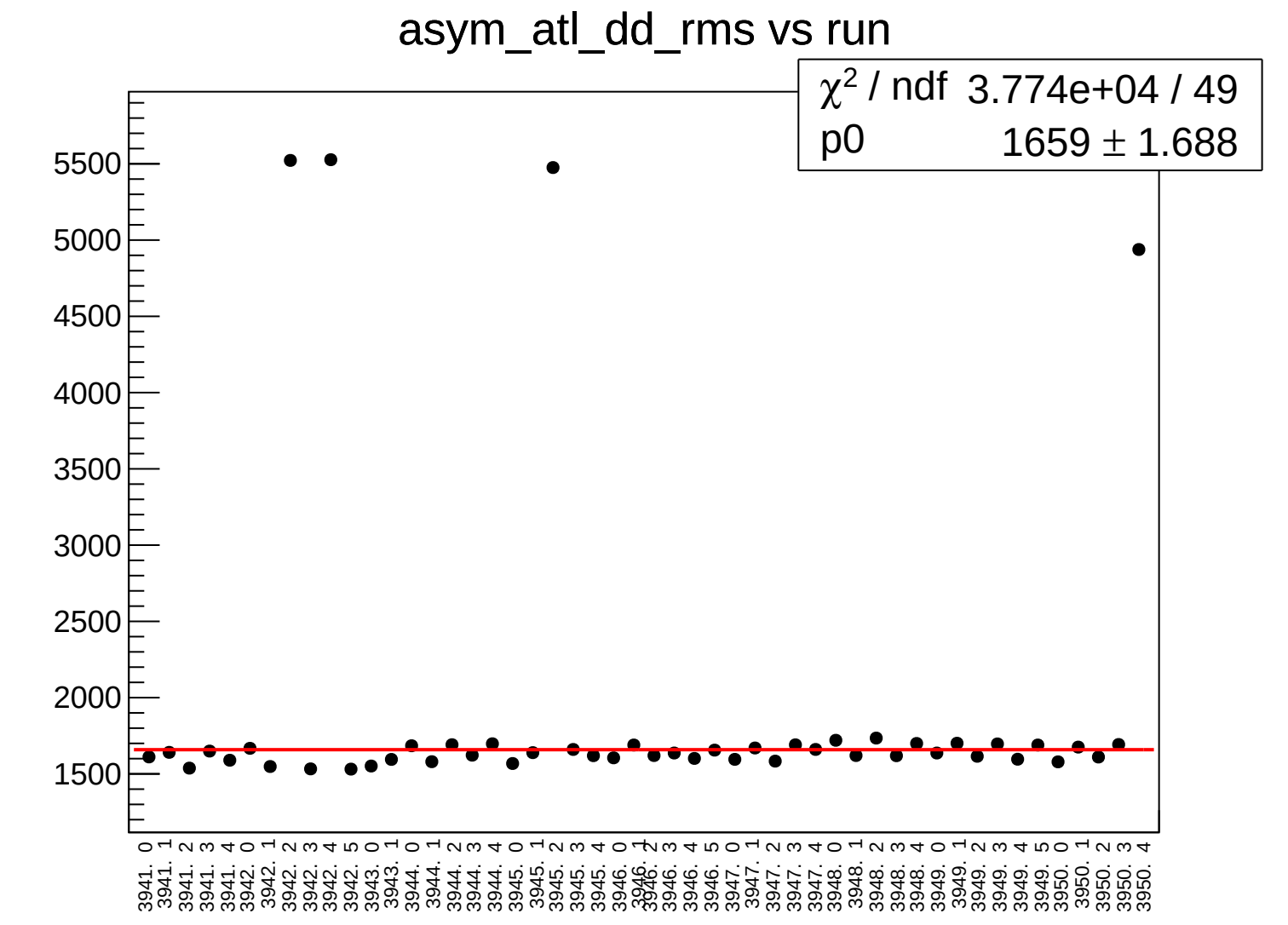
3950. 1
3950. 2
3950. 3
3950. 4


asym_atl_dd_mean vs run
×10^3
χ² / ndf 57.03 / 49
p0 1144 ± 2387
pull
Entries 50
Mean −9.364
Std Dev 23.75


pull1D
Entries 50
Mean −0.0208
Std Dev 1.068


asym_atl_dd_rms vs run
χ² / ndf 3.774e+04 / 49
p0 1659 ± 1.688
5500
5000
4500
4000
3500
3000
2500
2000
1500
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 3
3949. 4
3949. 5
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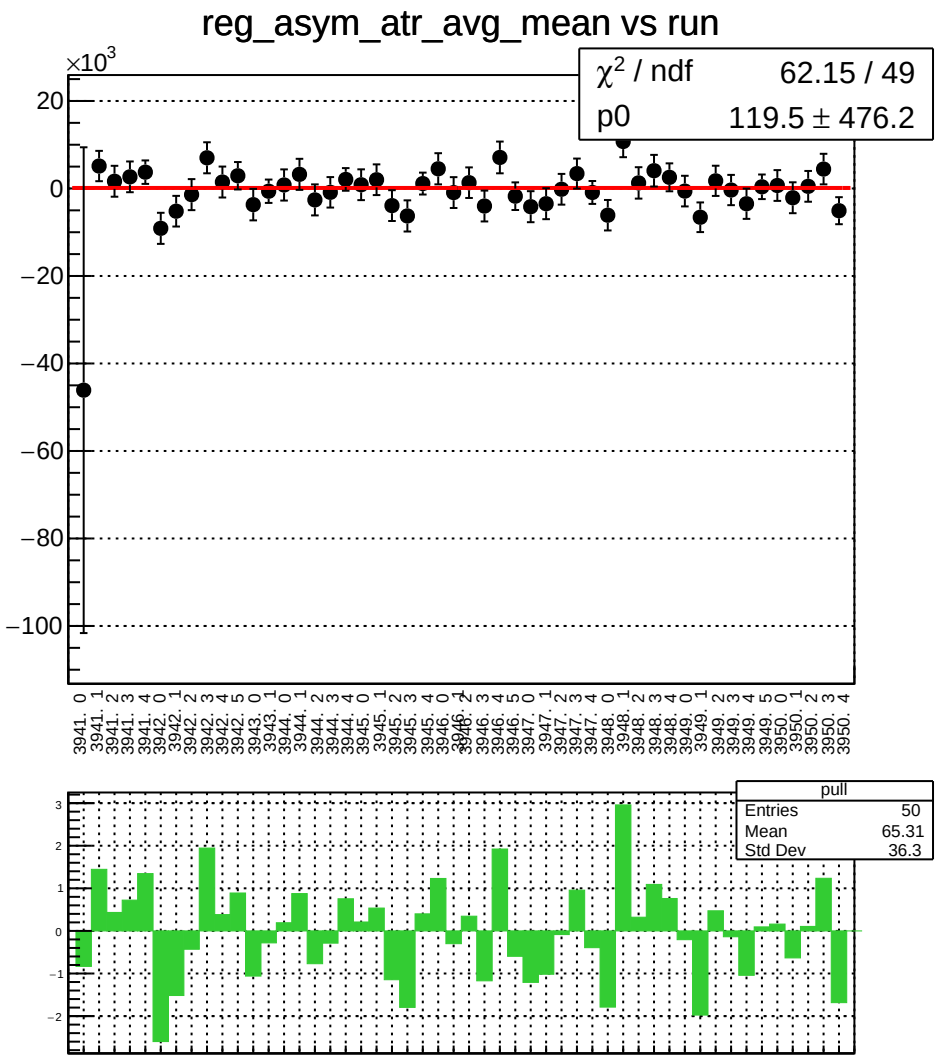
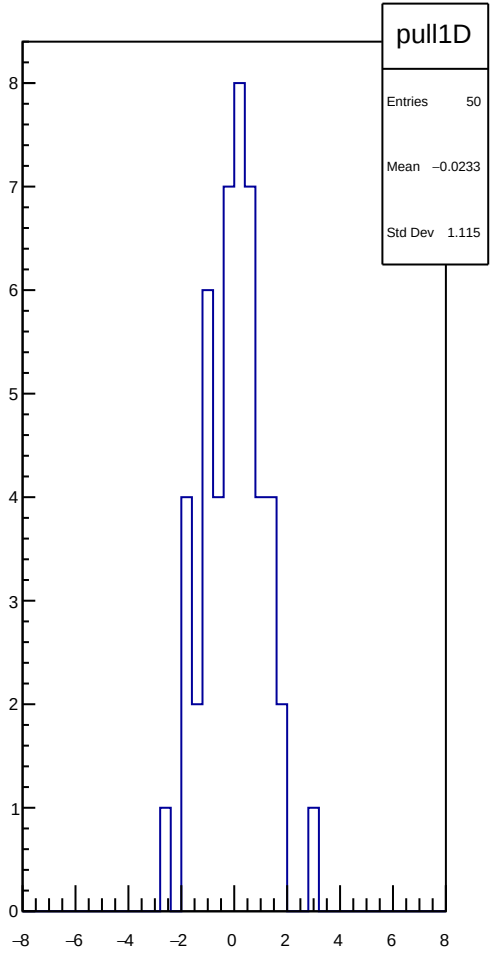
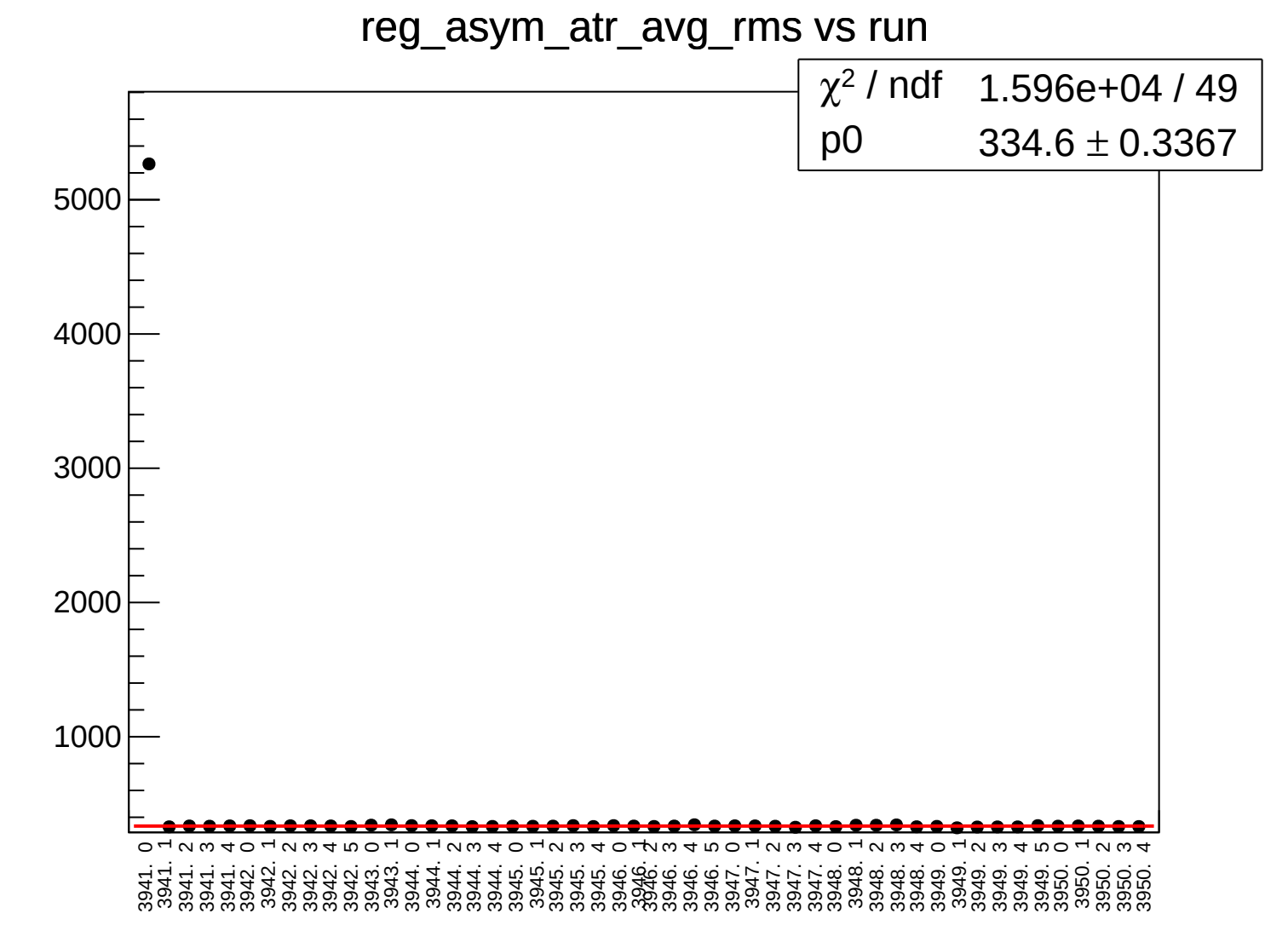
3950. 4


reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 62.15 / 49
p0 119.5 ± 476.2
pull
Entries 50
Mean 65.31
Std Dev 36.3


pull1D
Entries 50
Mean −0.0233
Std Dev 1.115


reg_asym_atr_avg_rms vs run
χ² / ndf 1.596e+04 / 49
p0 334.6 ± 0.3367
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
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3945. 1
3945. 2
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3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
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3949. 3
3949. 4
3949. 5
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3950. 1
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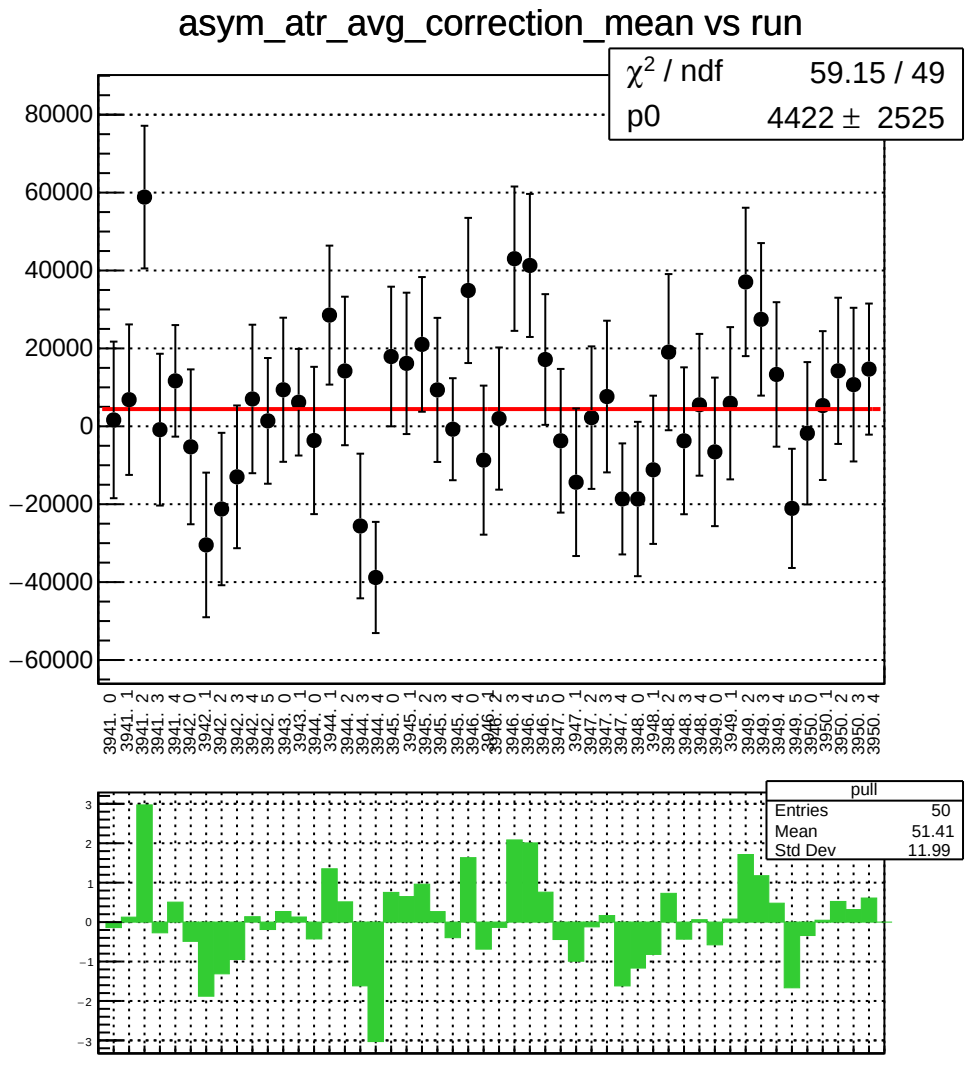
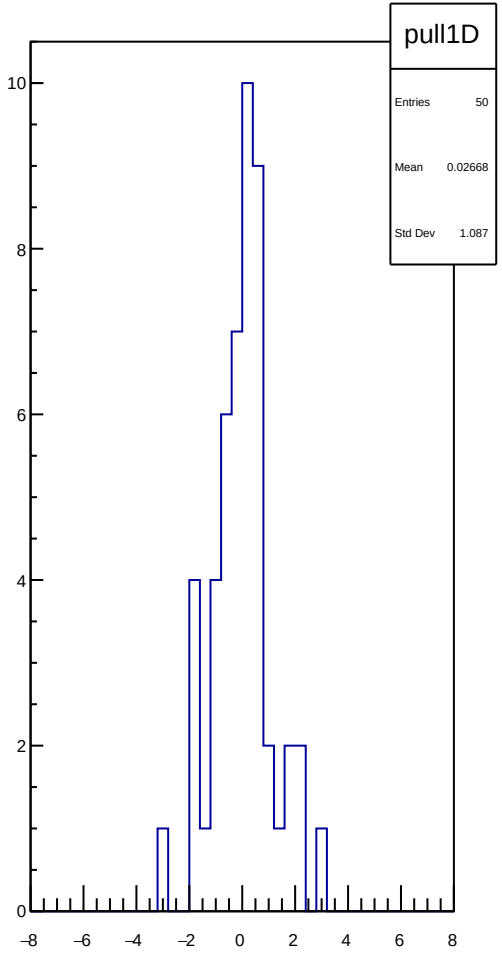
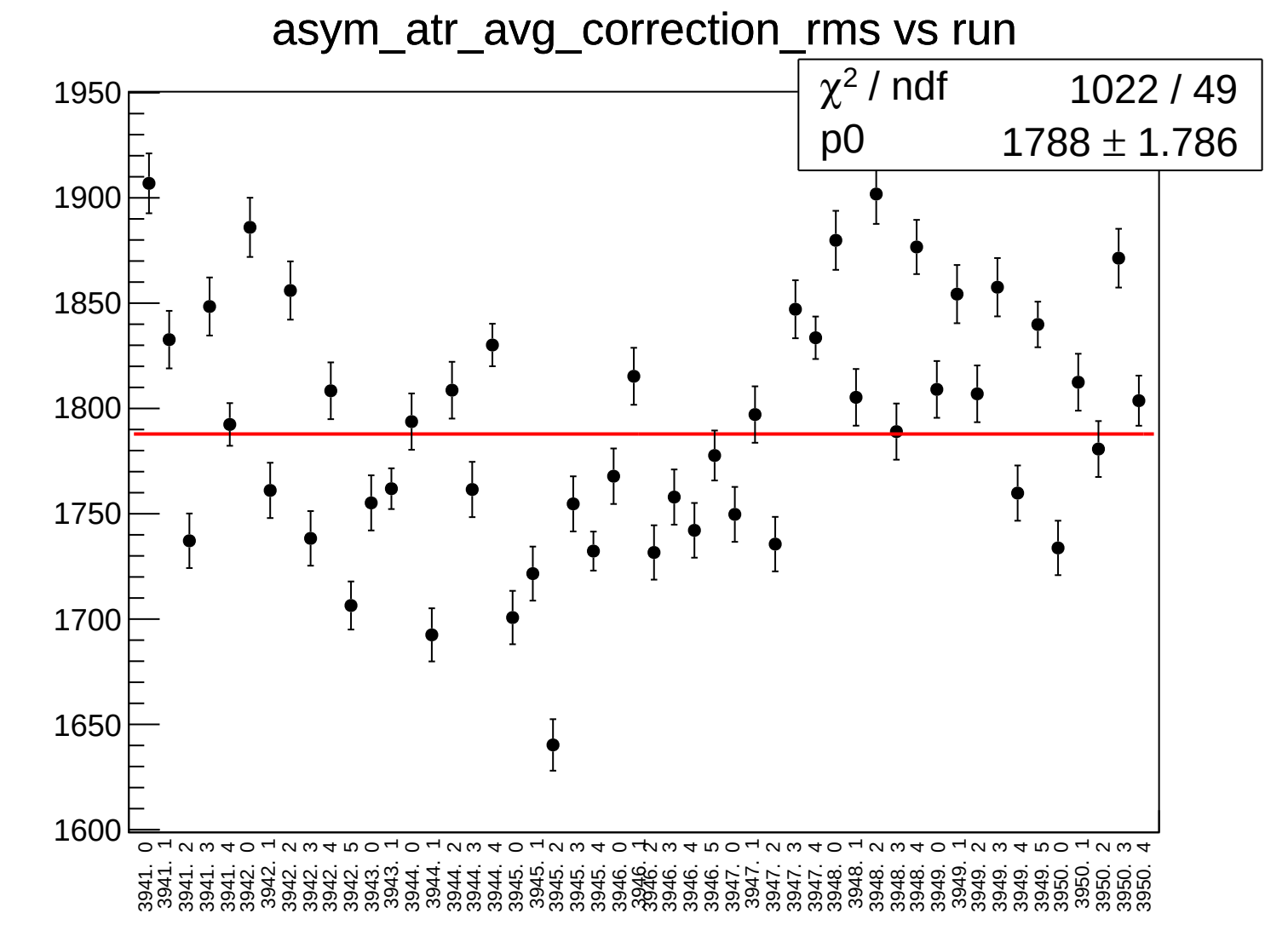
3950. 3
3950. 4


asym_atr_avg_correction_mean vs run
χ² / ndf 59.15 / 49
p0 4422 ± 2525
pull
Entries 50
Mean 51.41
Std Dev 11.99


pull1D
Entries 50
Mean 0.02668
Std Dev 1.087


asym_atr_avg_correction_rms vs run
χ² / ndf 1022 / 49
p0 1788 ± 1.786
1950
1900
1850
1800
1750
1700
1650
1600
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
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3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
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3949. 2
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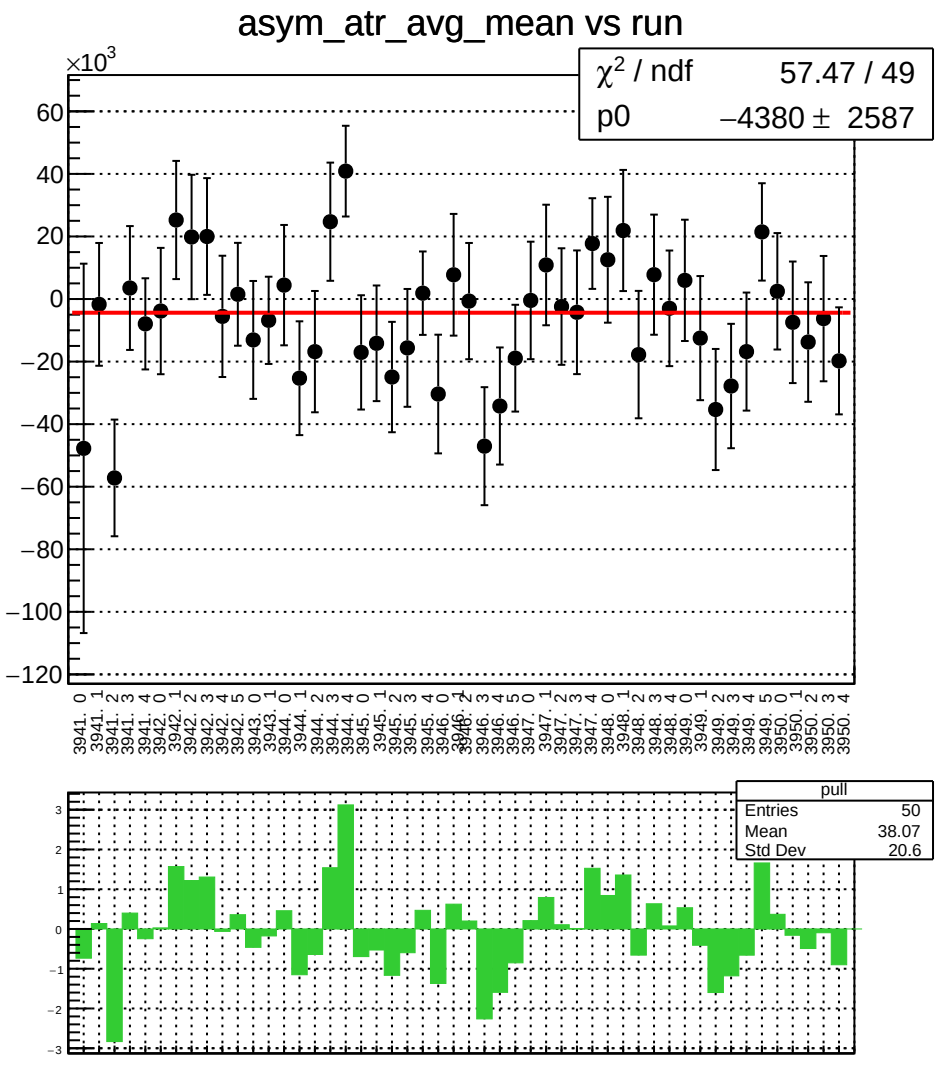
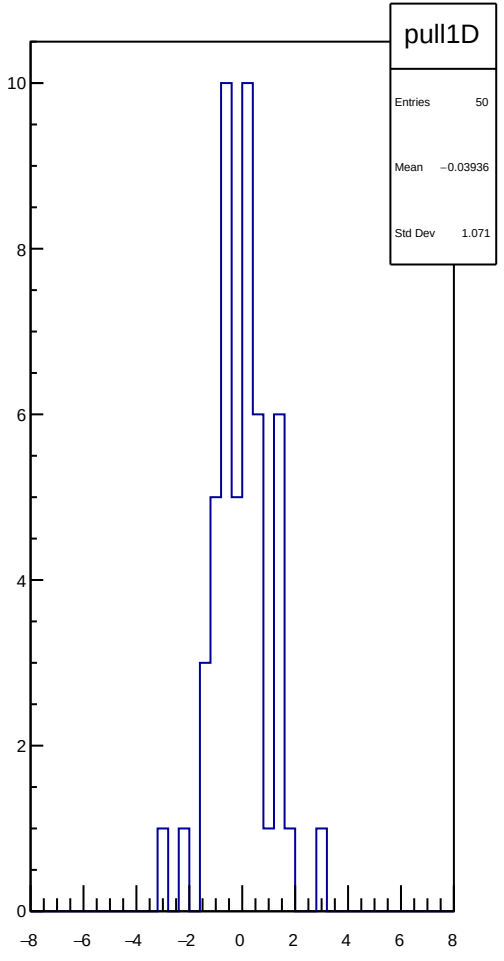
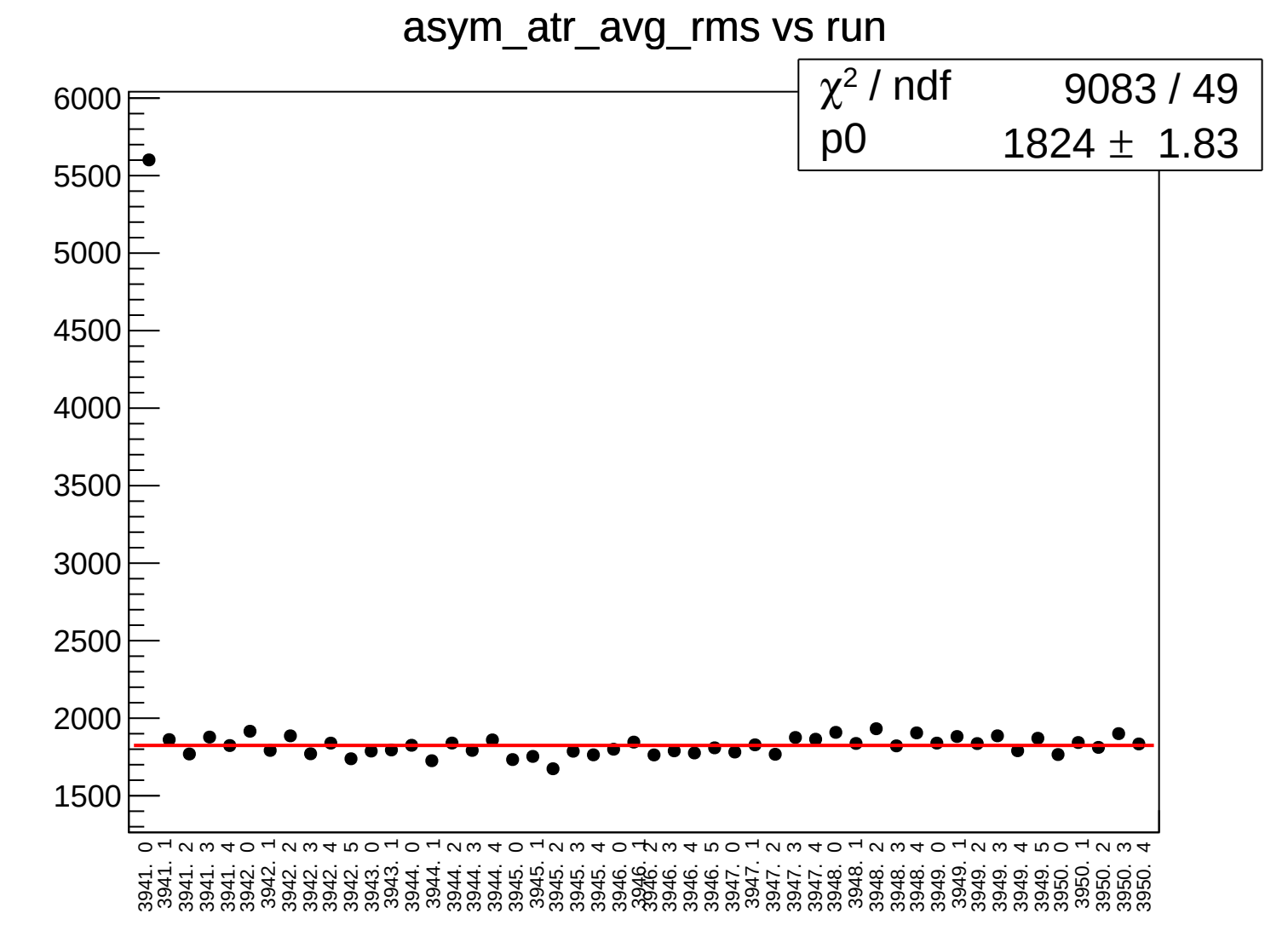
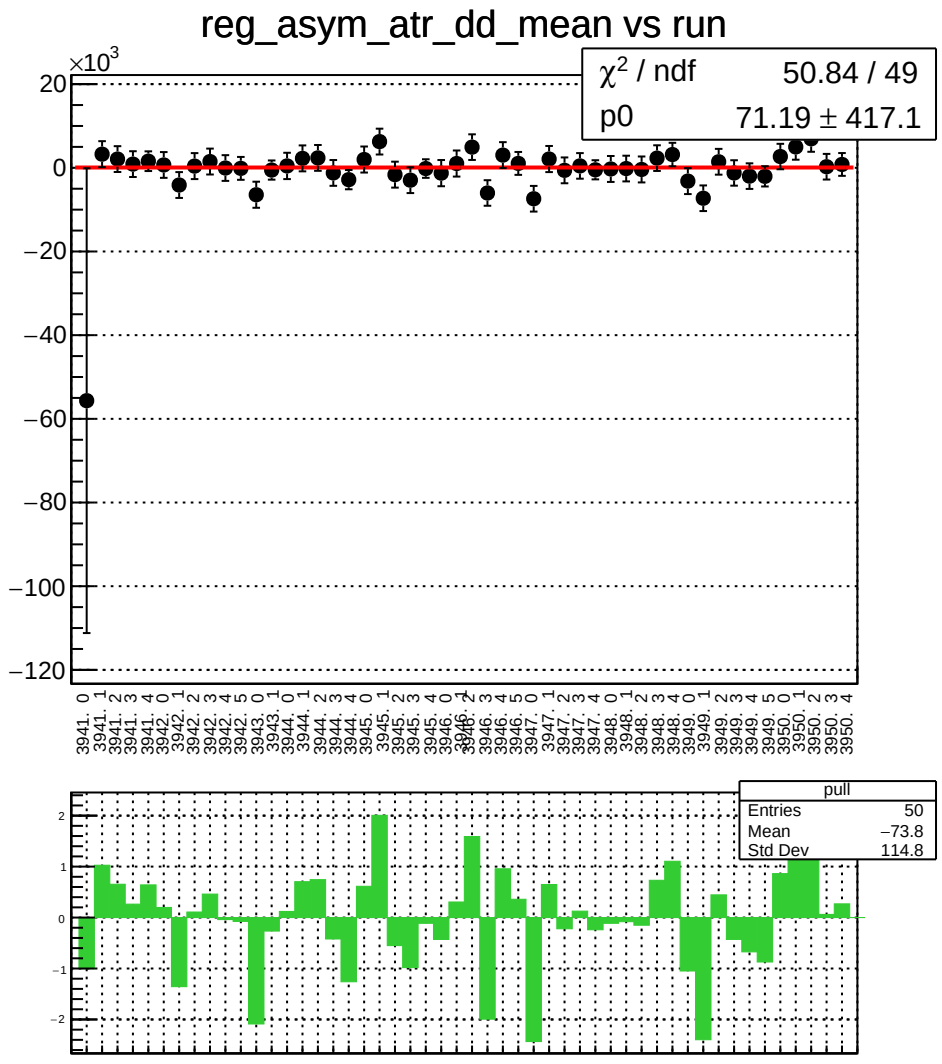
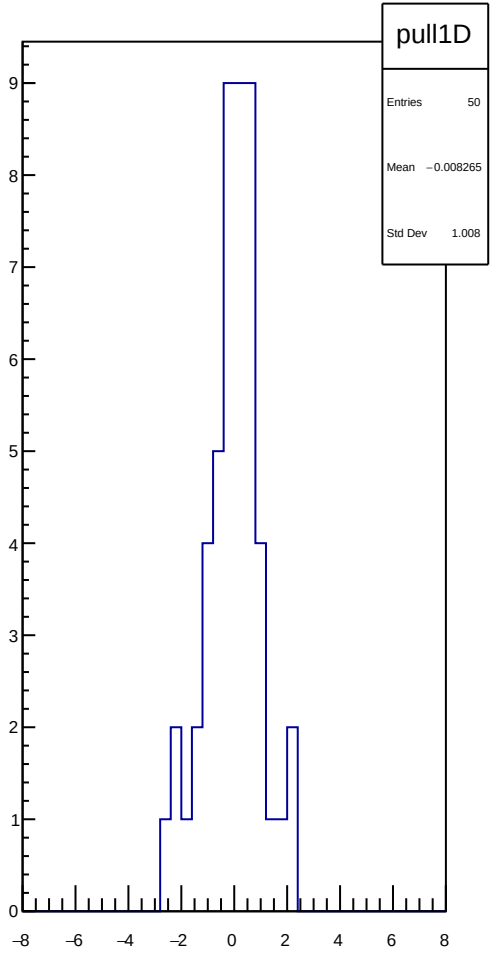
3950. 2
3950. 3
3950. 4

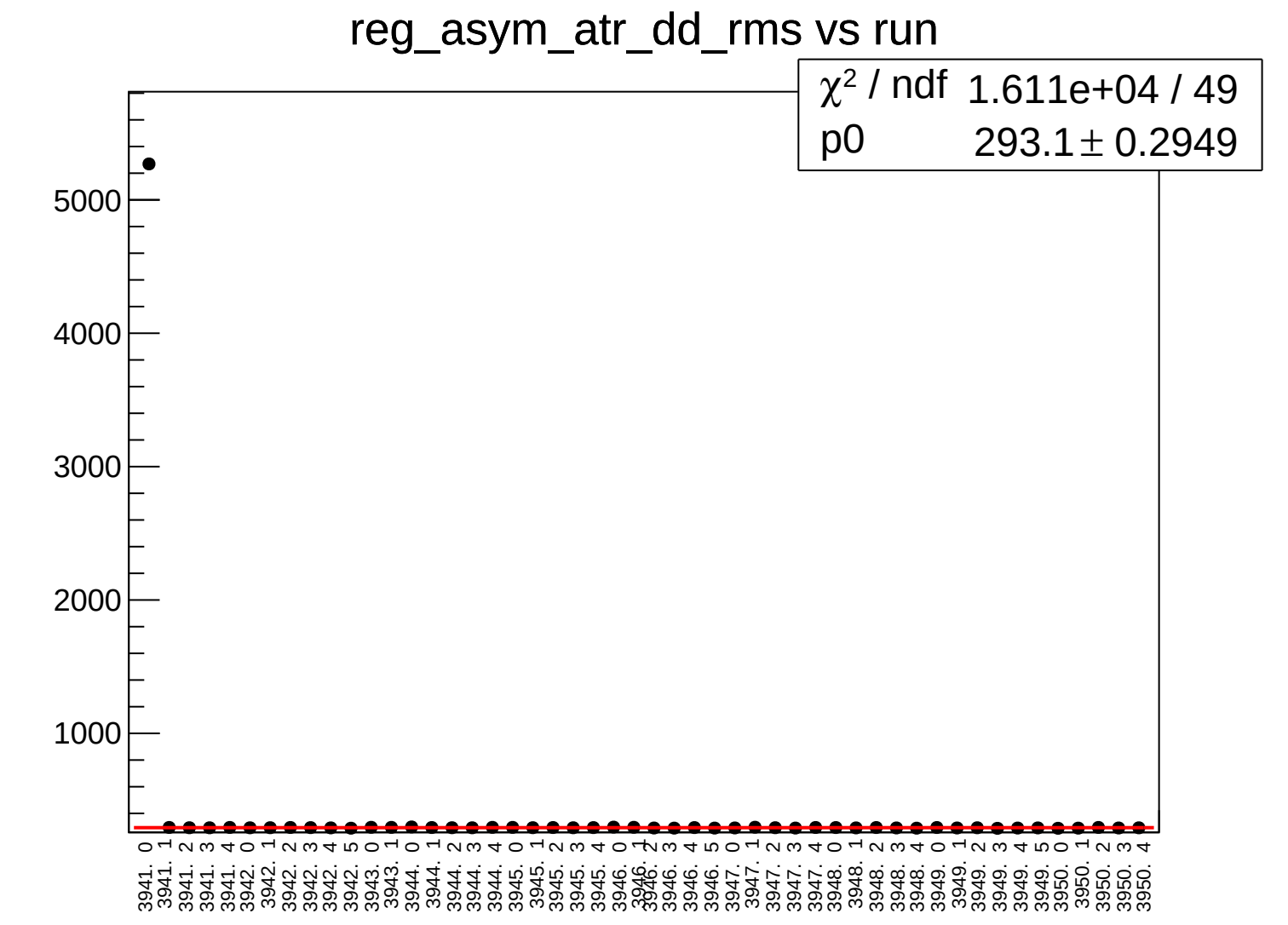

asym_atr_avg_mean vs run
×10^3
χ² / ndf 57.47 / 49
p0 −4380 ± 2587
pull
Entries 50
Mean 38.07
Std Dev 20.6

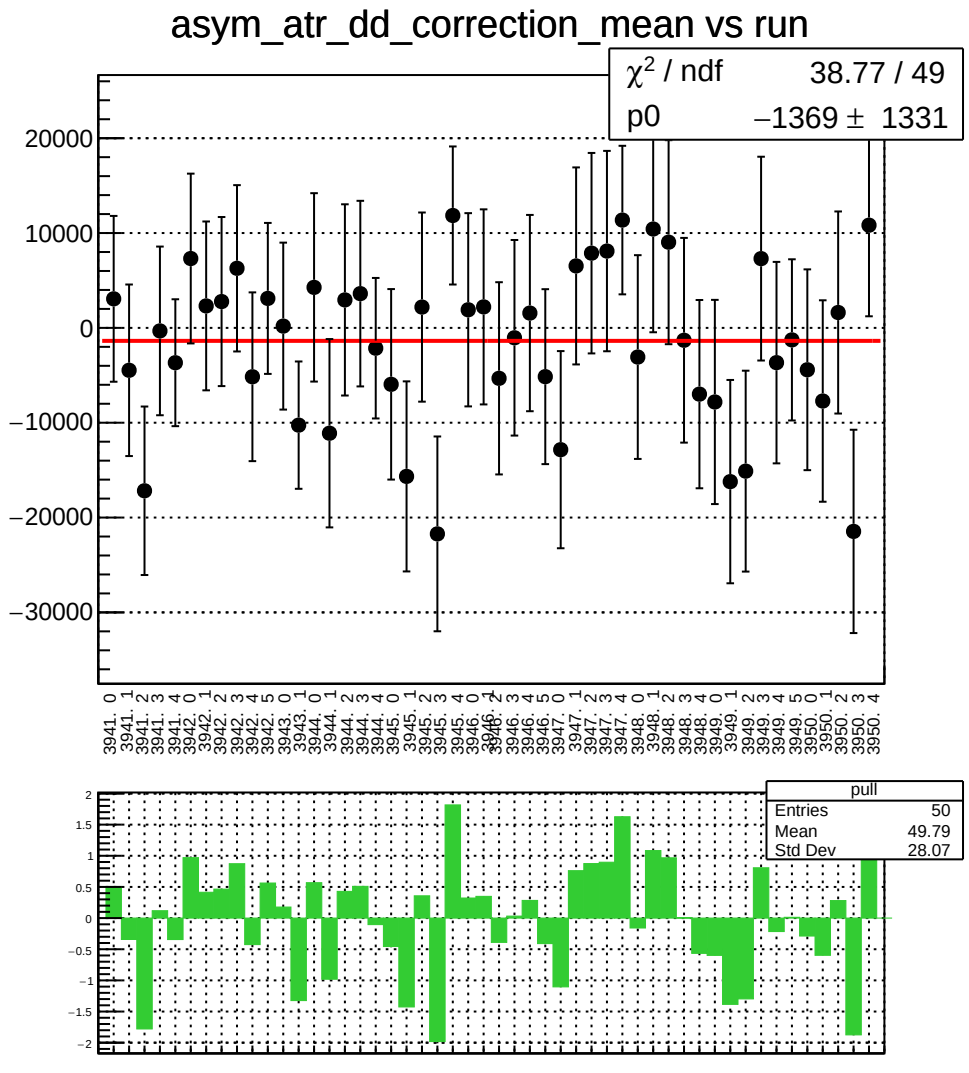

pull1D
Entries 50
Mean −0.03936
Std Dev 1.071

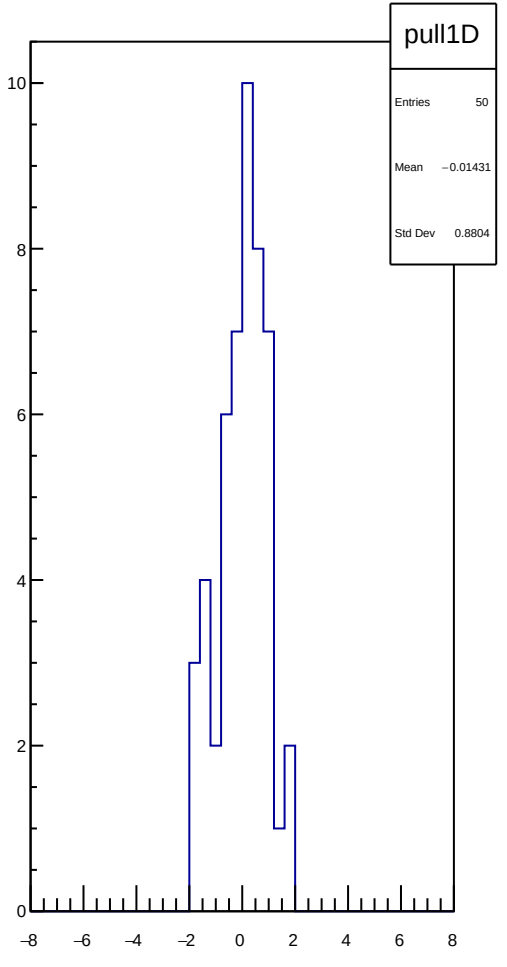

asym_atr_avg_rms vs run
χ² / ndf 9083 / 49
p0 1824 ± 1.83
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

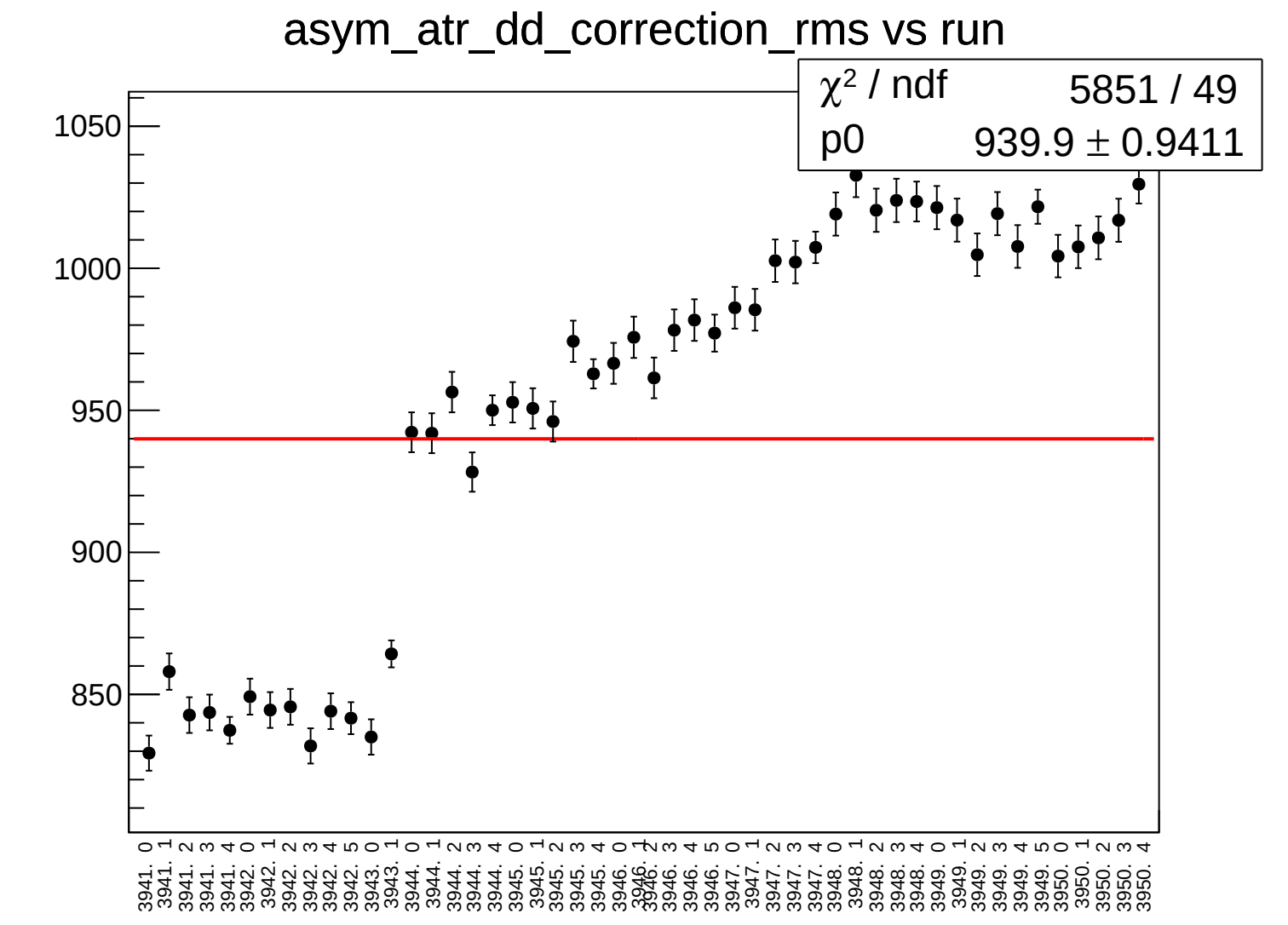

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 50.84 / 49
p0 71.19 ± 417.1
pull
Entries 50
Mean −73.8
Std Dev 114.8

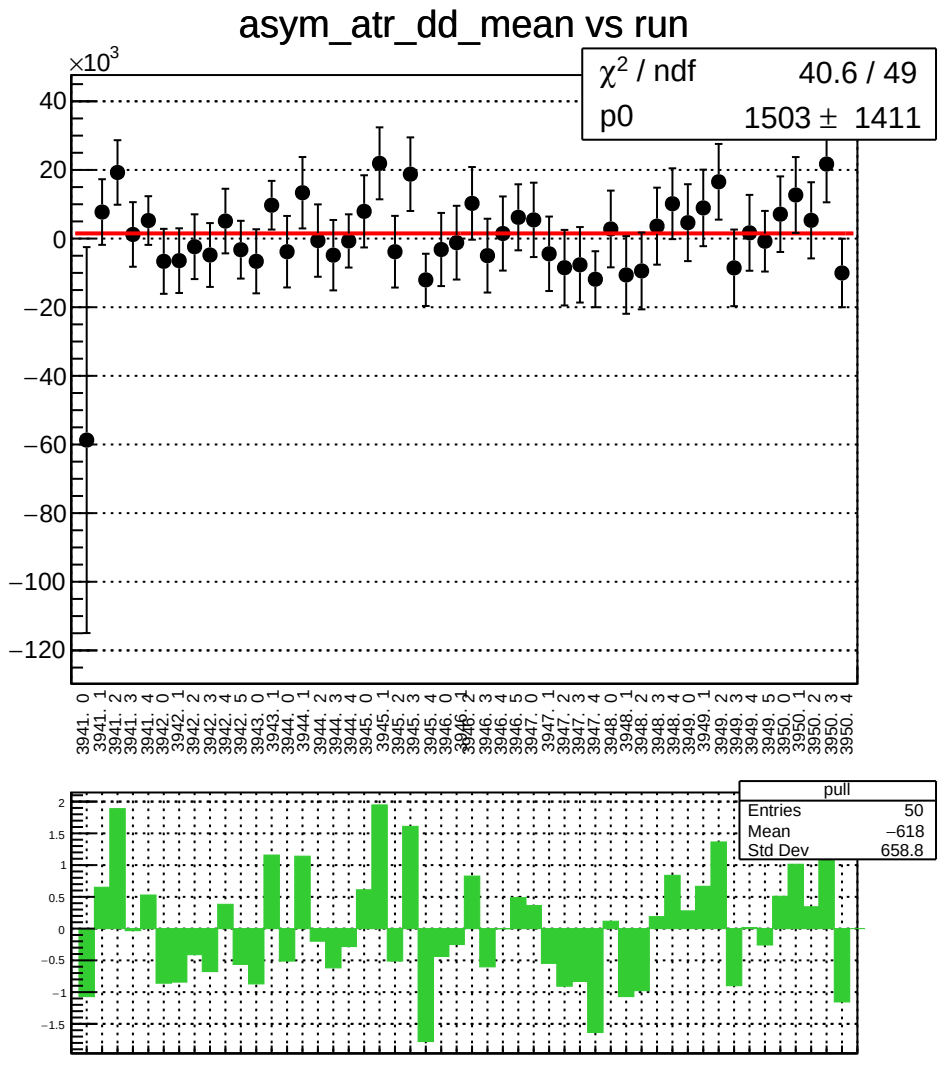

pull1D
Entries 50
Mean −0.008265
Std Dev 1.008

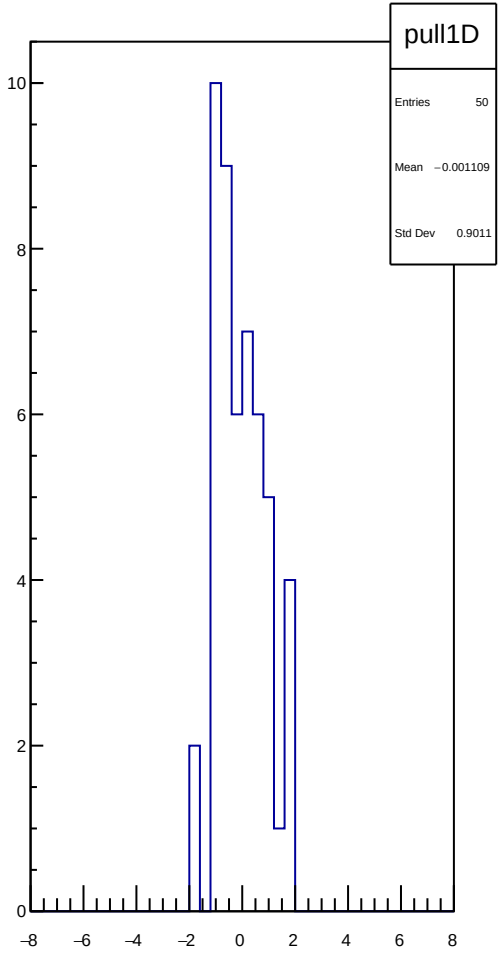

reg_asym_atr_dd_rms vs run
χ² / ndf 1.611e+04 / 49
p0 293.1 ± 0.2949
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

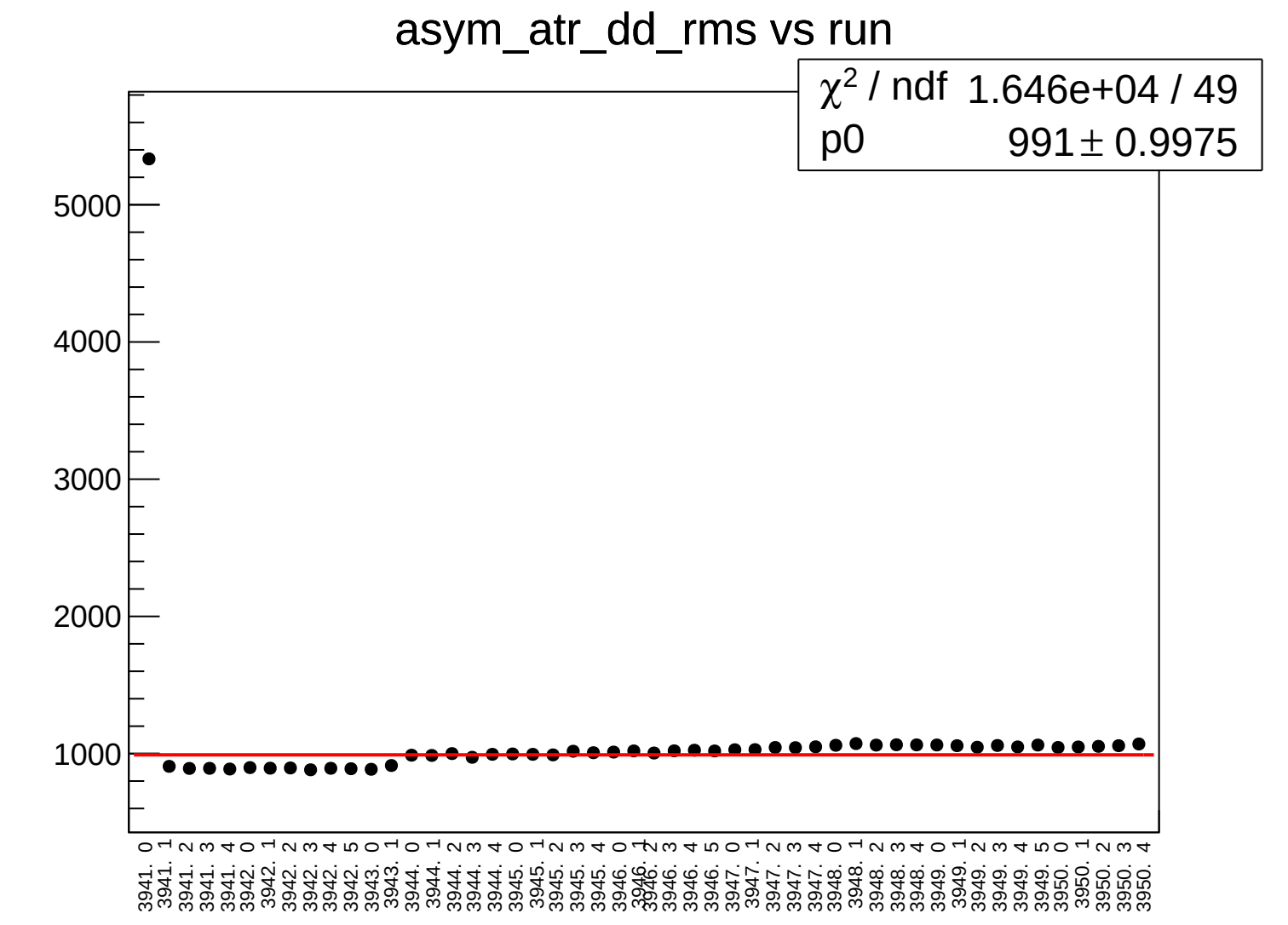

asym_atr_dd_correction_mean vs run
χ² / ndf 38.77 / 49
p0 −1369 ± 1331
20000
10000
0
−10000
−20000
−30000
pull
Entries 50
Mean 49.79
Std Dev 28.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

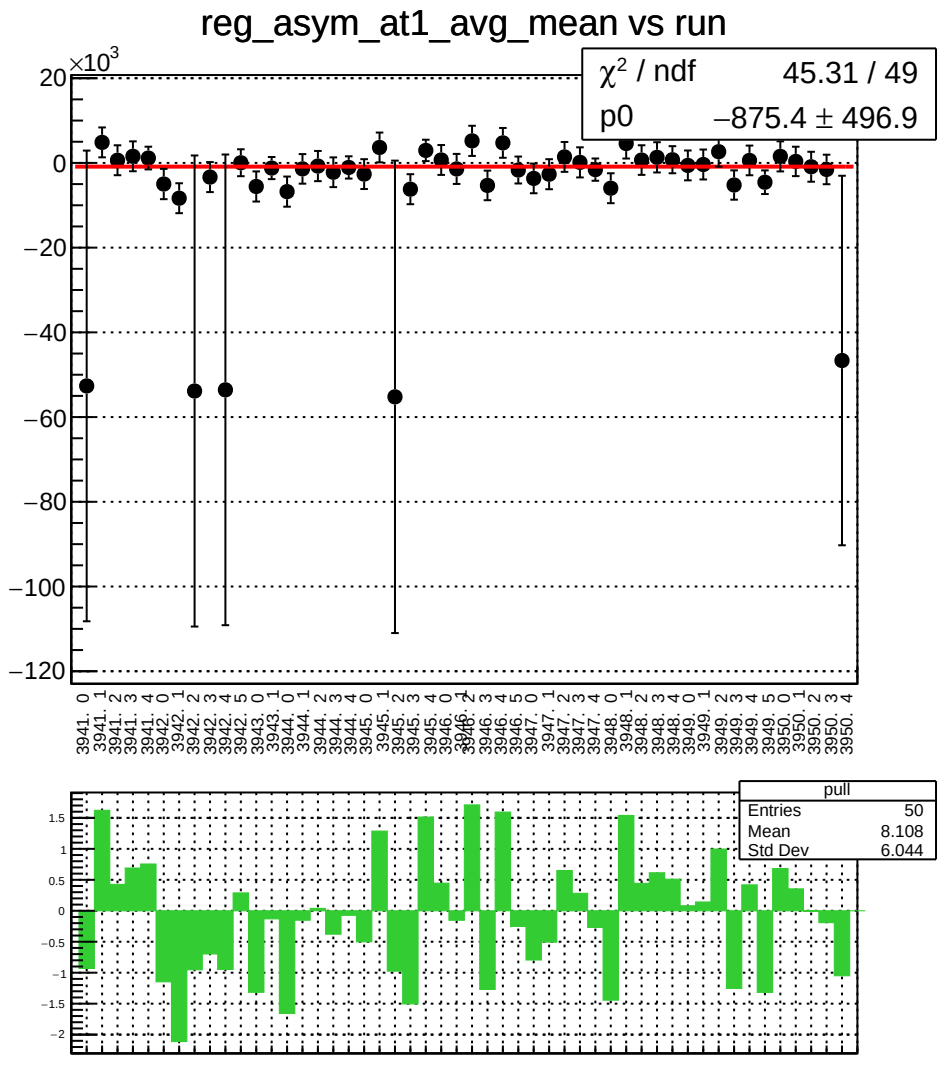

pull1D
Entries 50
Mean −0.01431
Std Dev 0.8804
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

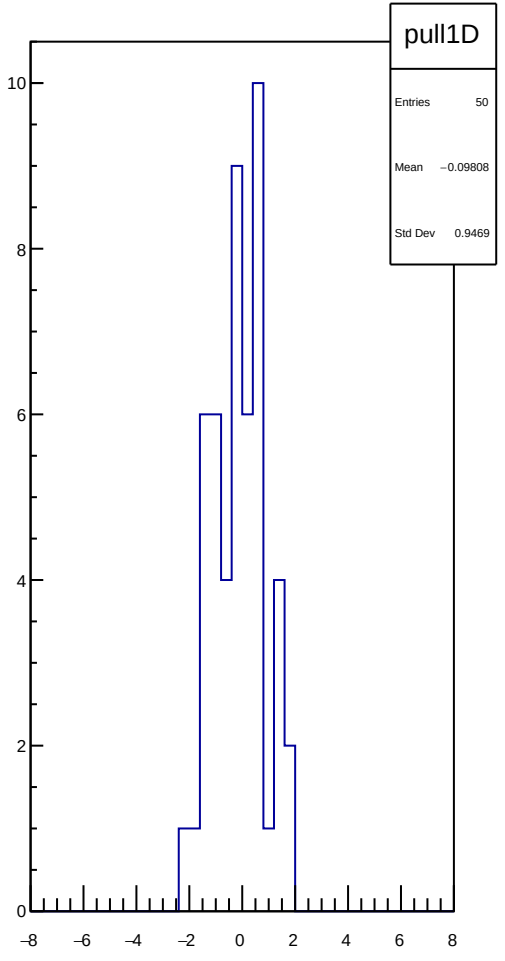

asym_atr_dd_correction_rms vs run
χ² / ndf 5851 / 49
p0 939.9 ± 0.9411
1050
1000
950
900
850
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

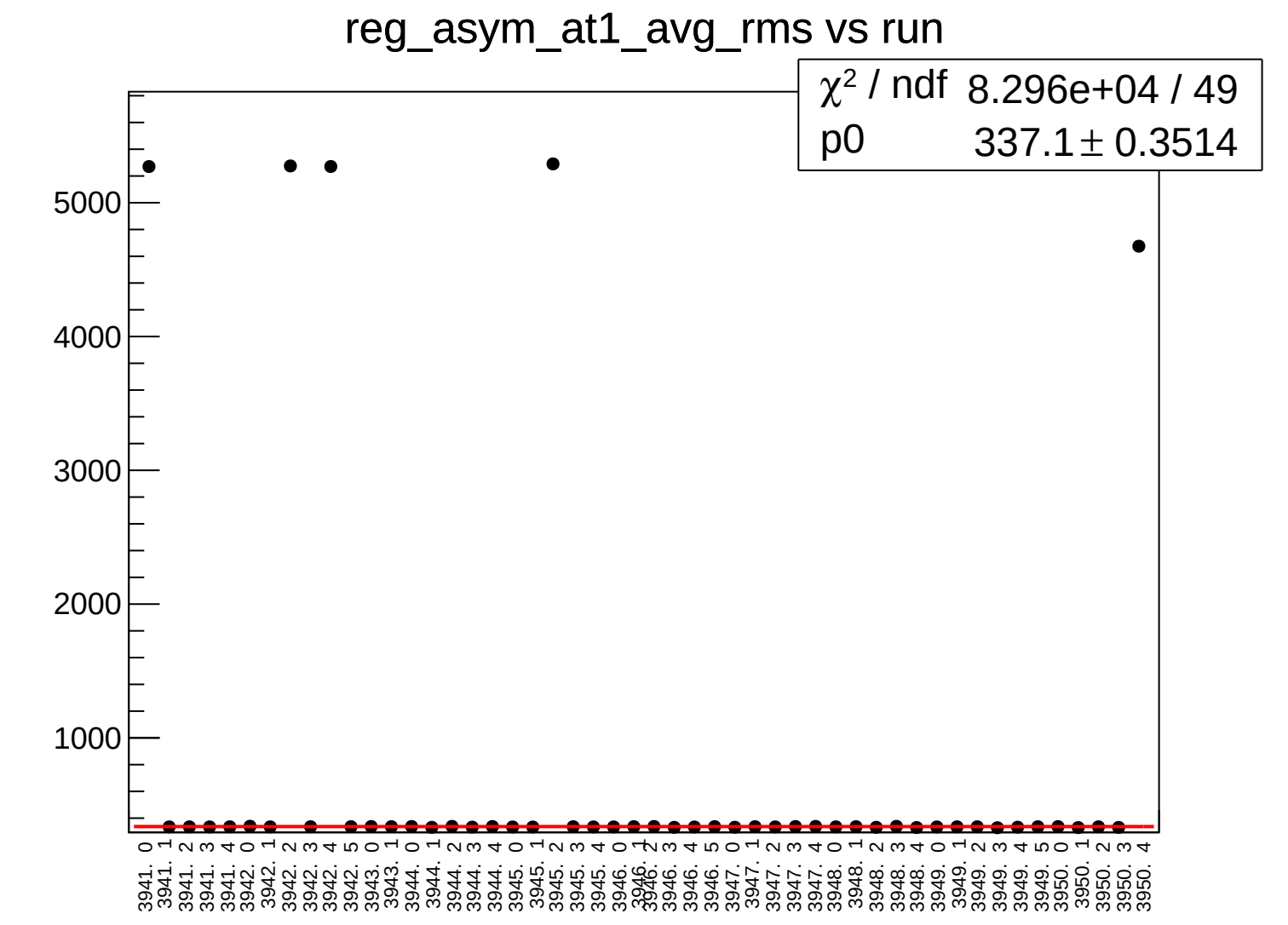

asym_atr_dd_mean vs run
×10^3
χ² / ndf 40.6 / 49
p0 1503 ± 1411
pull
Entries 50
Mean −618
Std Dev 658.8

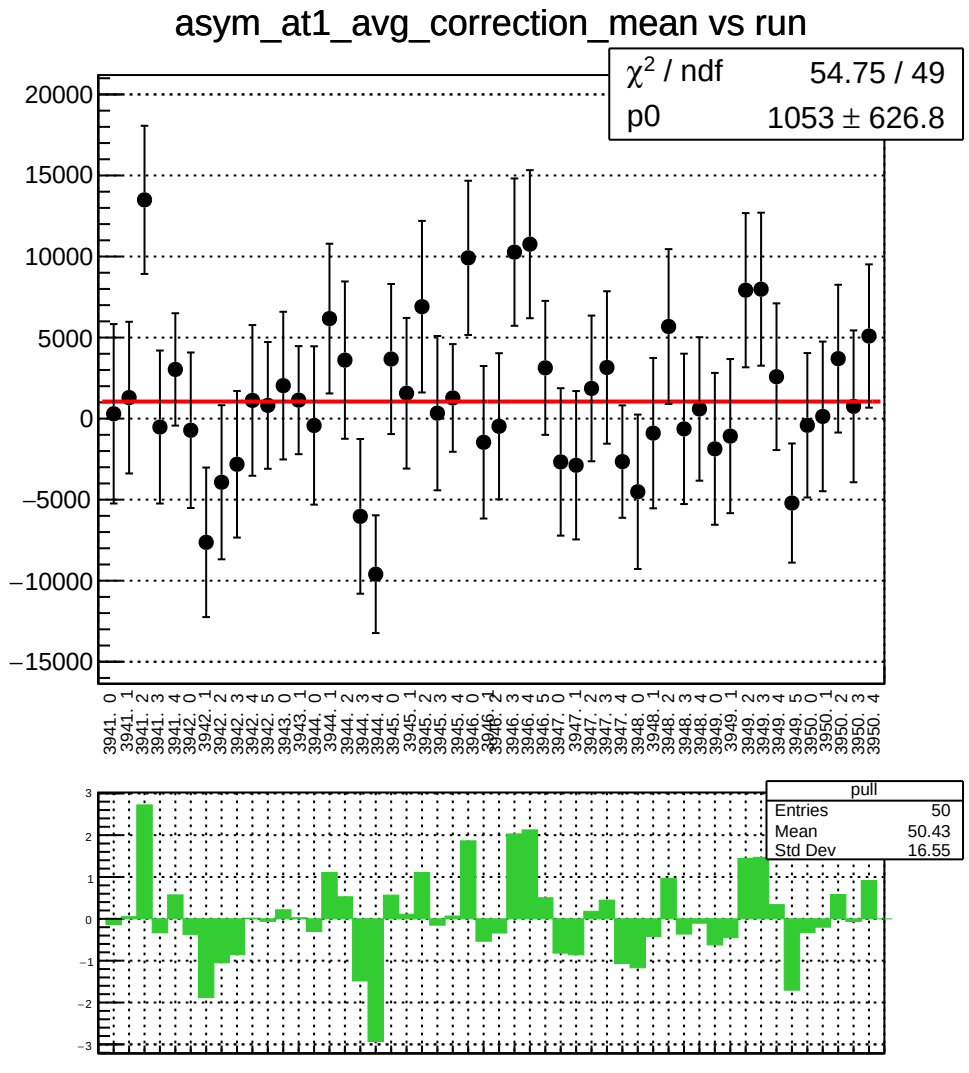

pull1D
Entries 50
Mean −0.001109
Std Dev 0.9011

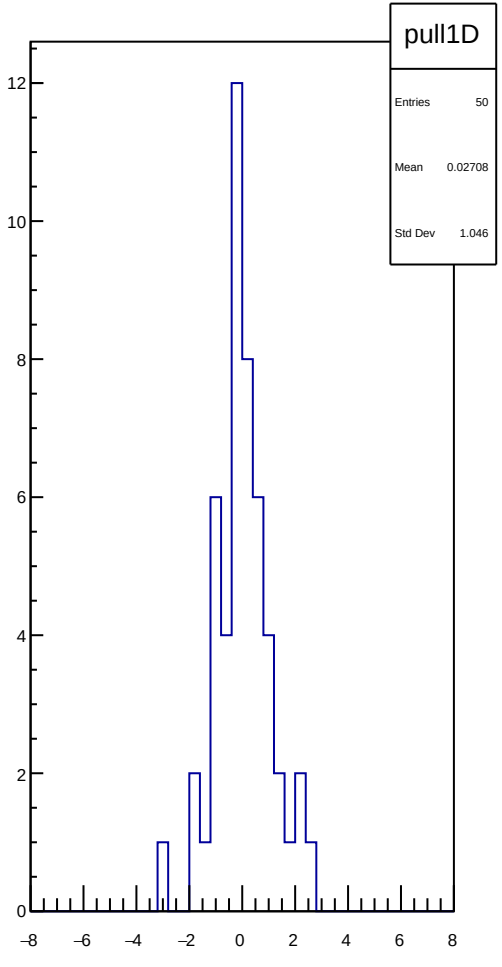

asym_atr_dd_rms vs run
χ² / ndf 1.646e+04 / 49
p0 991 ± 0.9975
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

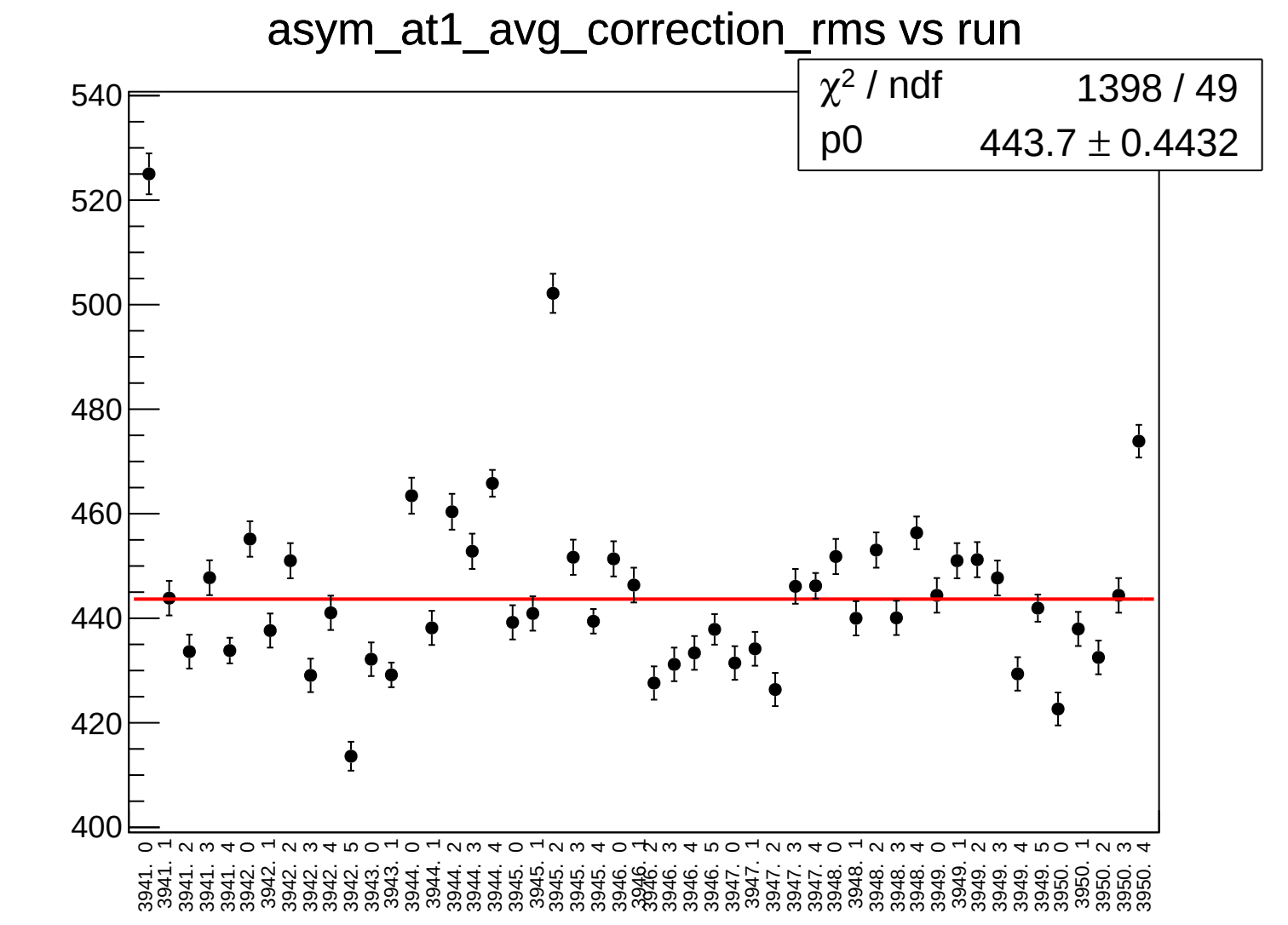

reg_asym_at1_avg_mean vs run
χ² / ndf 45.31 / 49
p0 −875.4 ± 496.9
×10³
pull
Entries 50
Mean 8.108
Std Dev 6.044

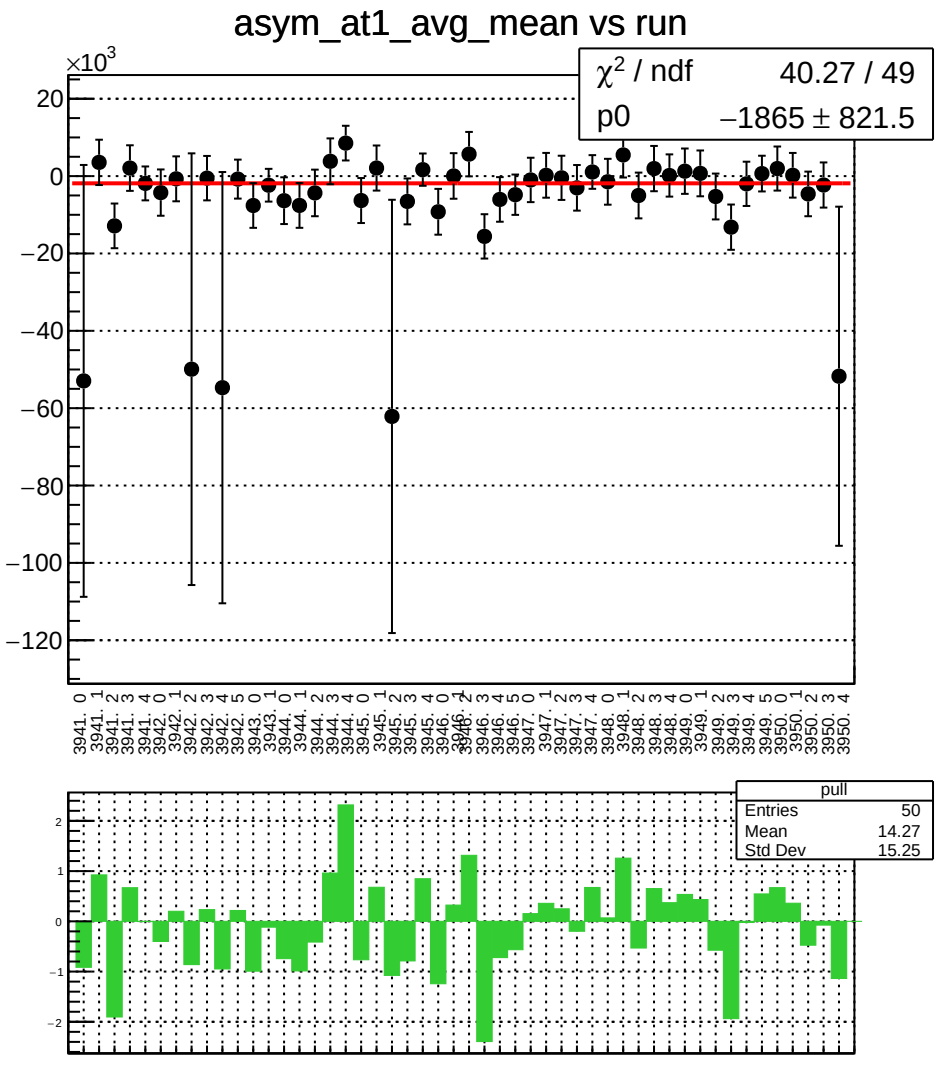

pull1D
Entries 50
Mean −0.09808
Std Dev 0.9469

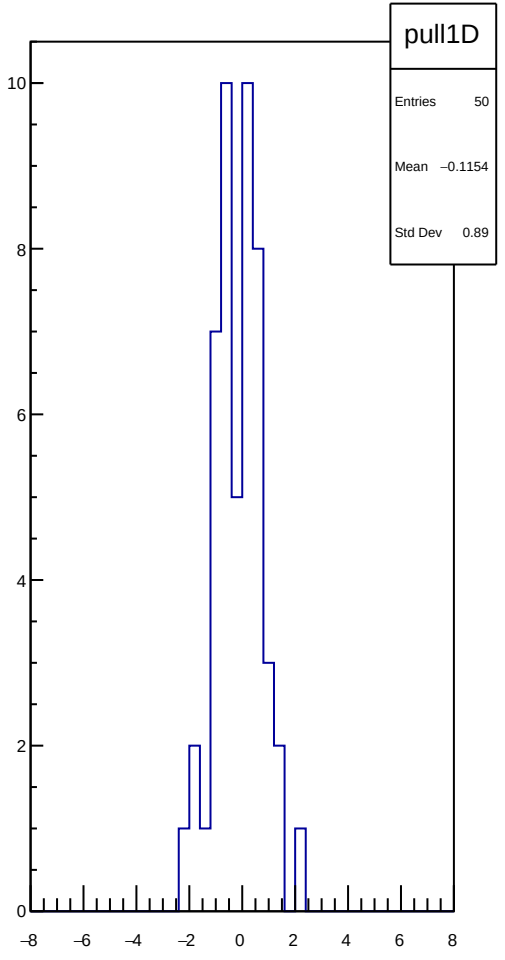

reg_asym_at1_avg_rms vs run
χ² / ndf 8.296e+04 / 49
p0 337.1 ± 0.3514
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

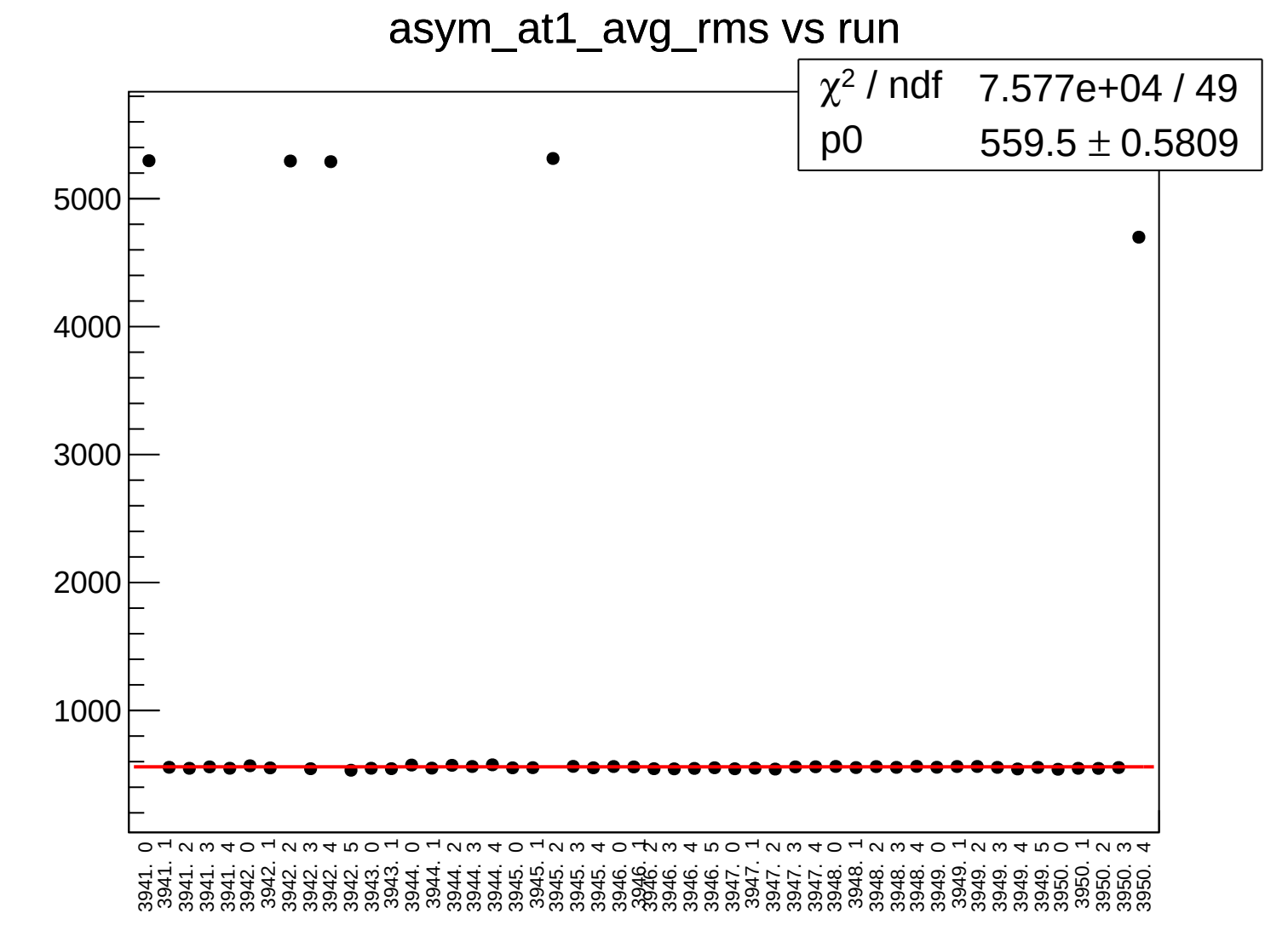

asym_at1_avg_correction_mean vs run
χ² / ndf 54.75 / 49
p0 1053 ± 626.8
pull
Entries 50
Mean 50.43
Std Dev 16.55


pull1D
Entries 50
Mean 0.02708
Std Dev 1.046


asym_at1_avg_correction_rms vs run
χ² / ndf 1398 / 49
p0 443.7 ± 0.4432
540
520
500
480
460
440
420
400
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 40.27 / 49
p0 −1865 ± 821.5
pull
Entries 50
Mean 14.27
Std Dev 15.25


pull1D
Entries 50
Mean −0.1154
Std Dev 0.89


asym_at1_avg_rms vs run
χ² / ndf 7.577e+04 / 49
p0 559.5 ± 0.5809
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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3949. 4
3949. 5
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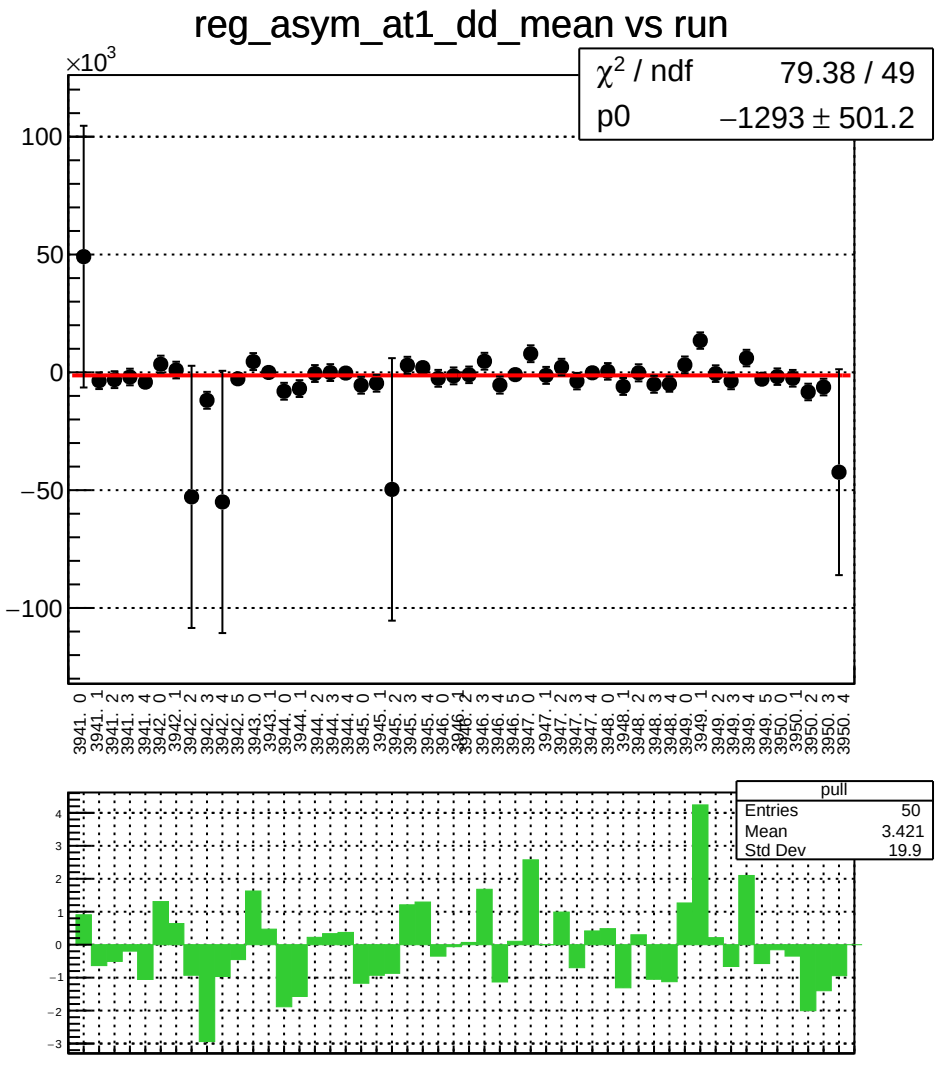
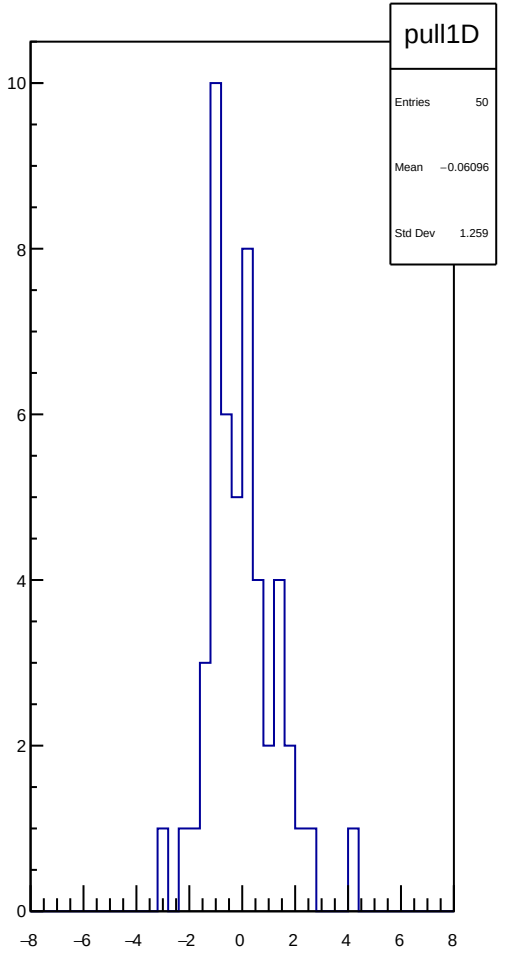
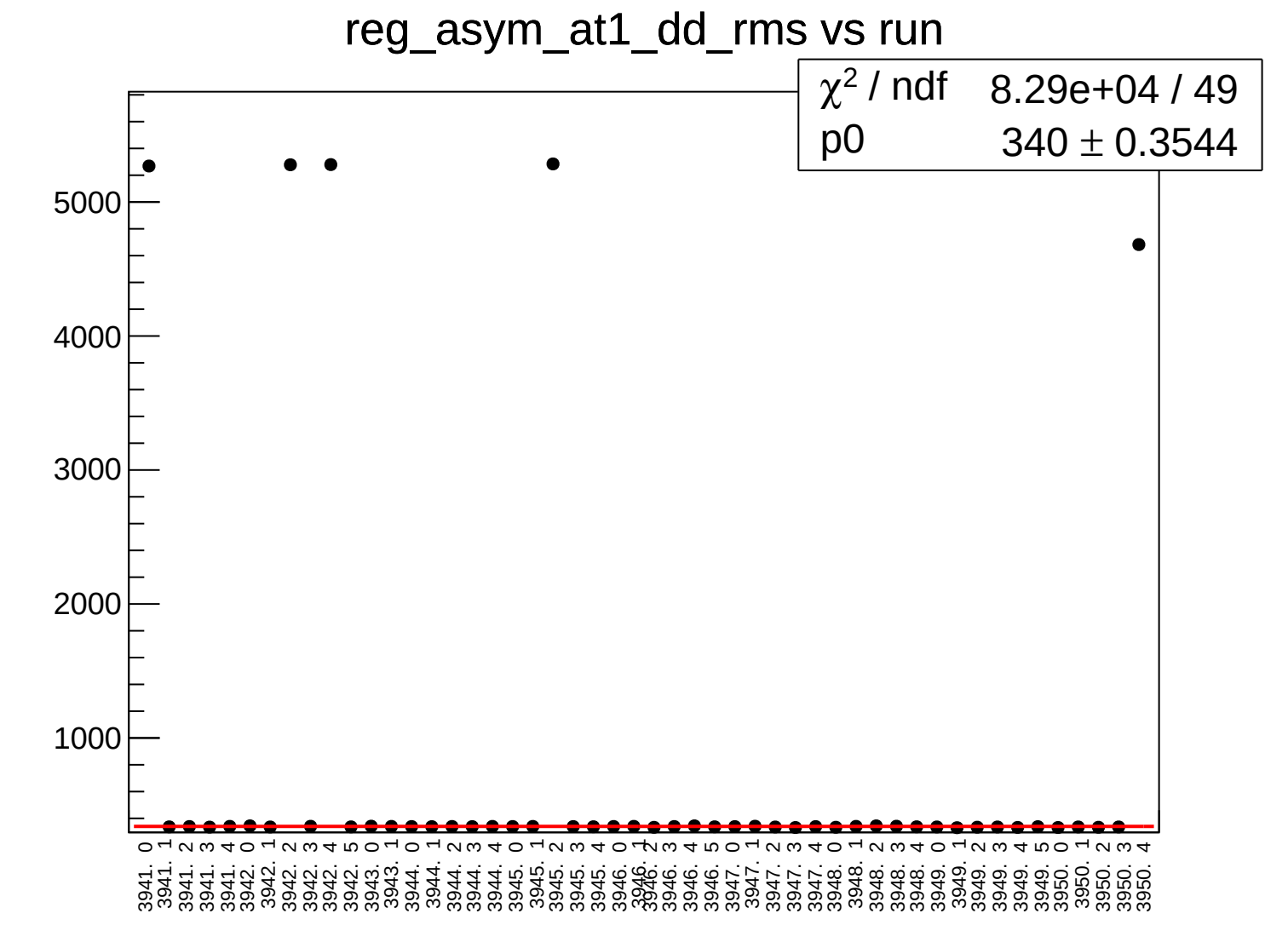
3950. 1
3950. 2
3950. 3
3950. 4


reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 79.38 / 49
p0 −1293 ± 501.2
100
50
0
−50
−100
pull
Entries 50
Mean 3.421
Std Dev 19.9


pull1D
Entries 50
Mean −0.06096
Std Dev 1.259


reg_asym_at1_dd_rms vs run
$\chi^2$ / ndf 8.29e+04 / 49
p0 340 ± 0.3544
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
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3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
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3948. 2
3948. 3
3948. 4
3949. 0
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3949. 3
3949. 4
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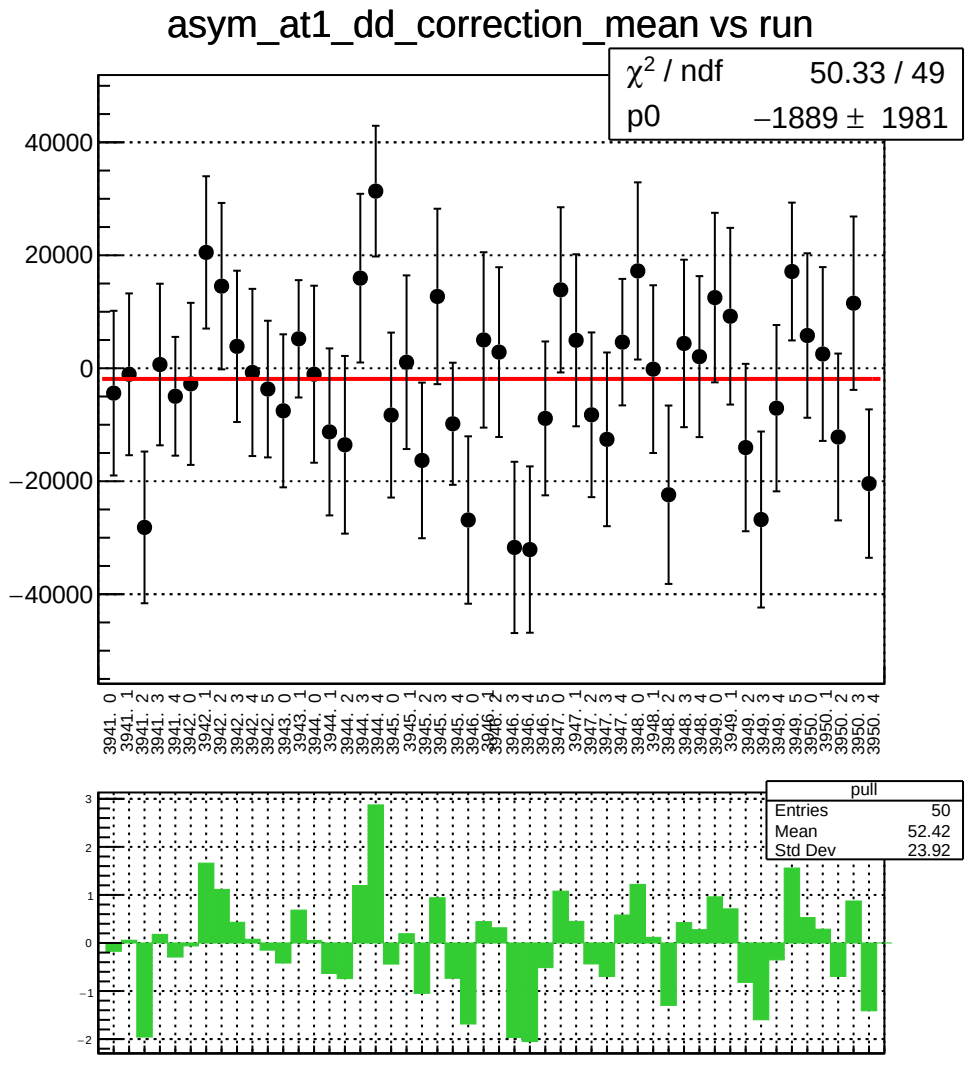
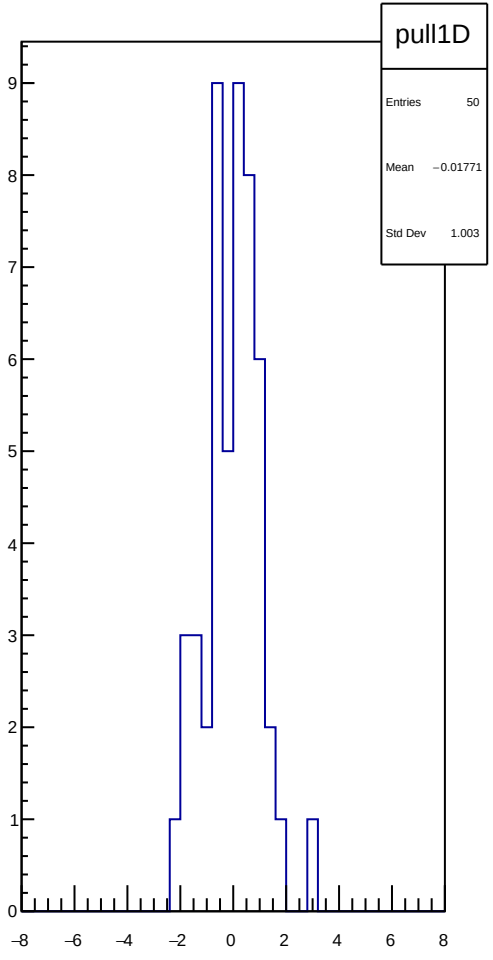
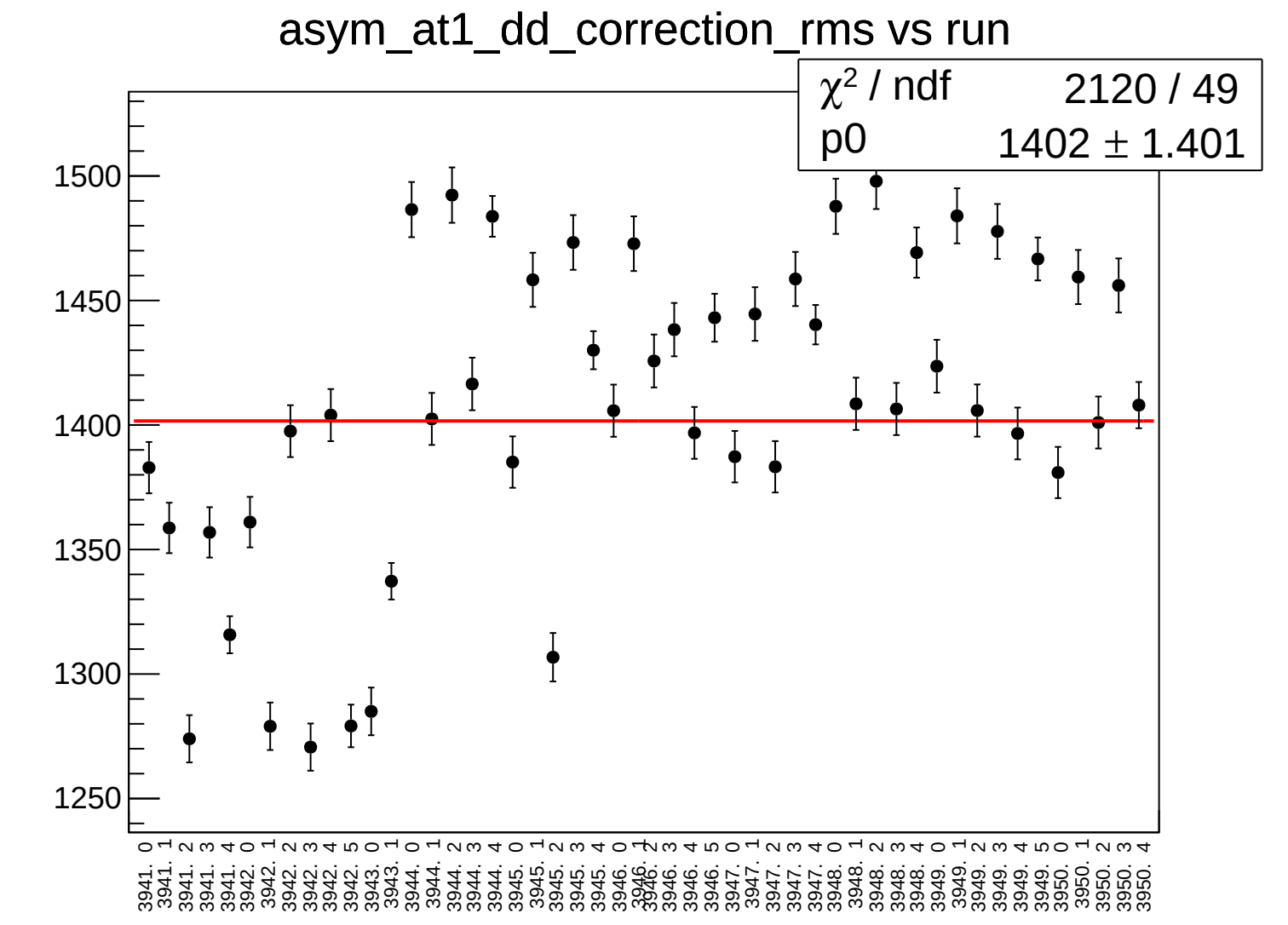
3950. 3
3950. 4


asym_at1_dd_correction_mean vs run
χ² / ndf 50.33 / 49
p0 −1889 ± 1981
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 52.42
Std Dev 23.92
3
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01771
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_correction_rms vs run
χ² / ndf 2120 / 49
p0 1402 ± 1.401
1500
1450
1400
1350
1300
1250
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
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3947. 3
3947. 4
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3948. 1
3948. 2
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3949. 0
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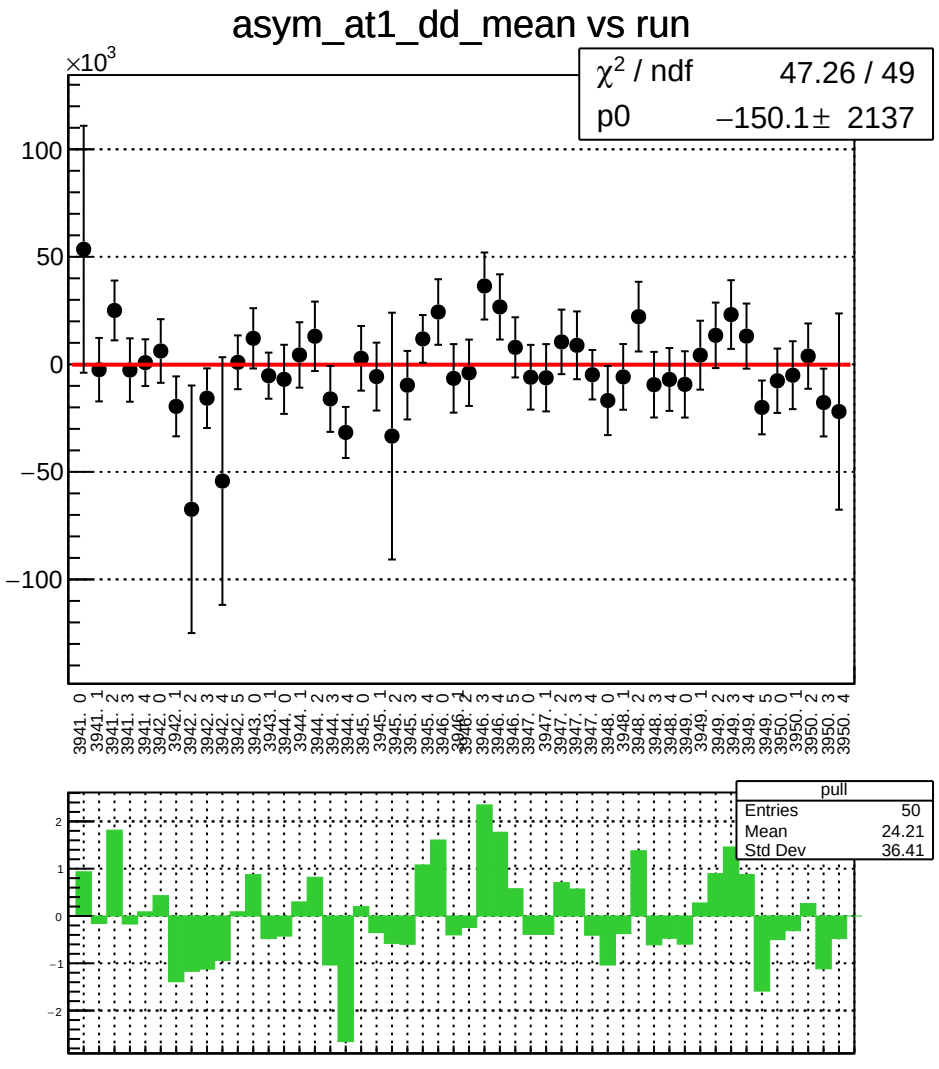
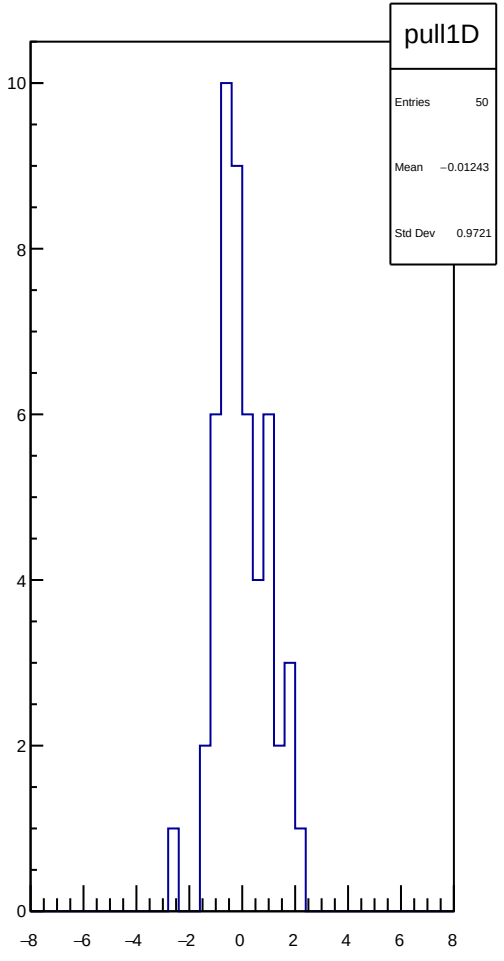
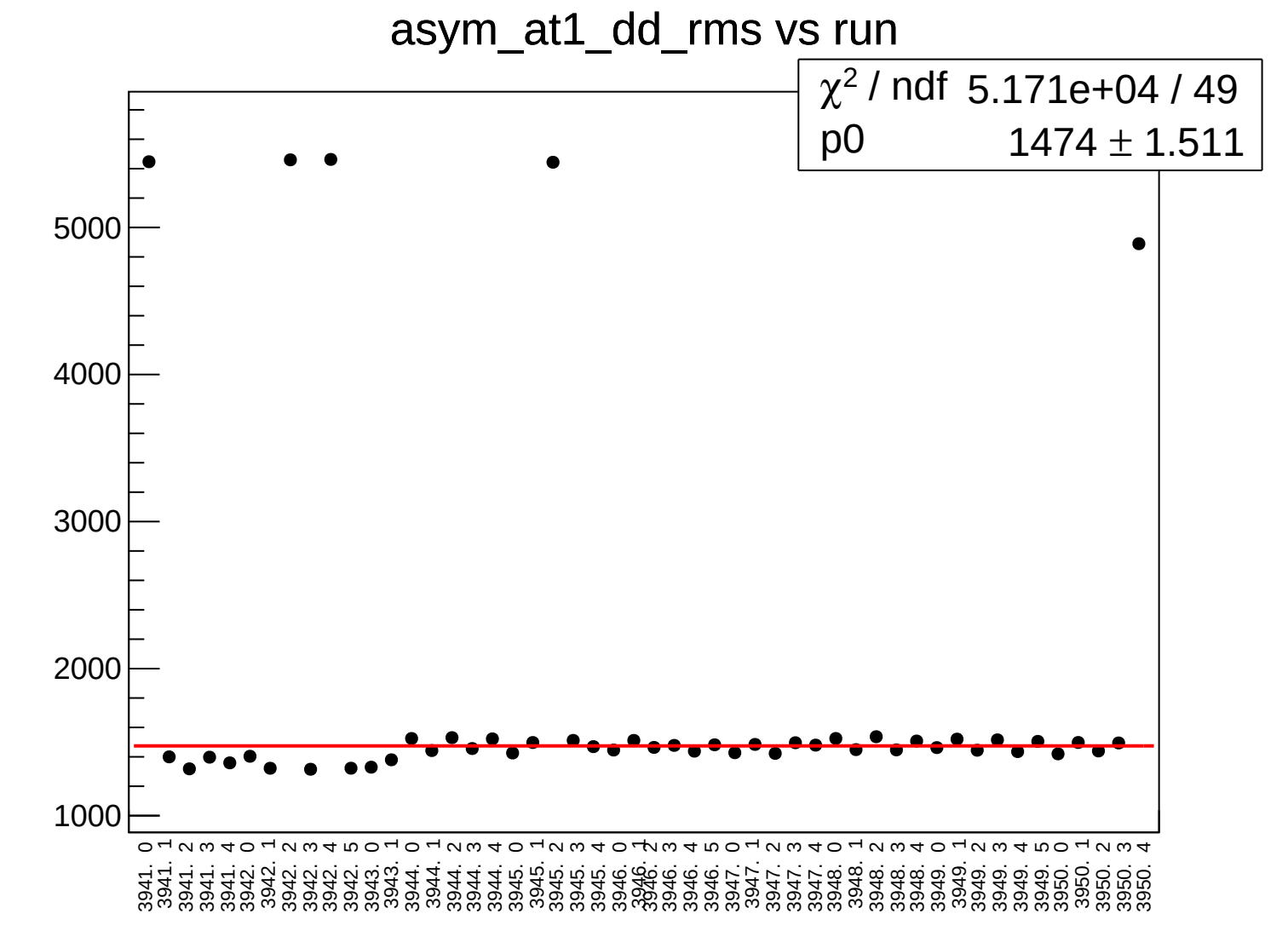
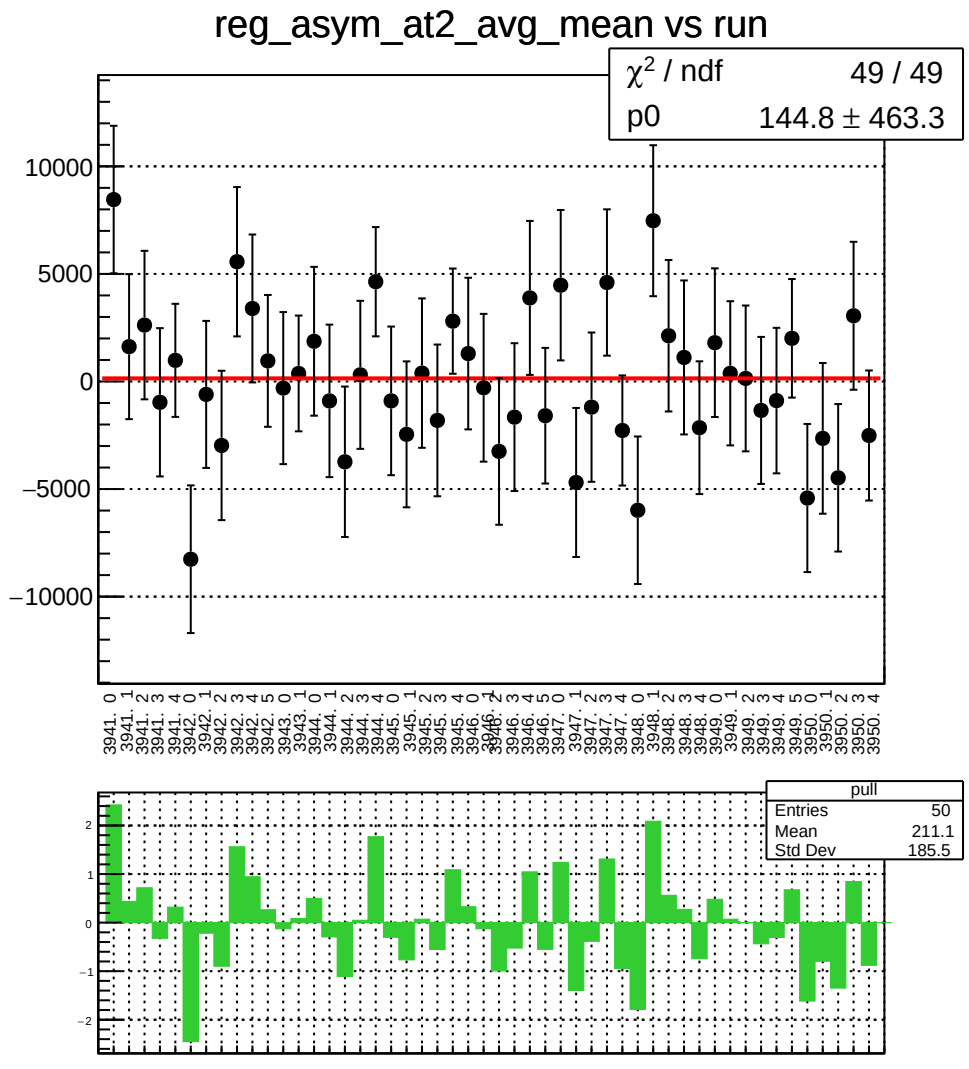
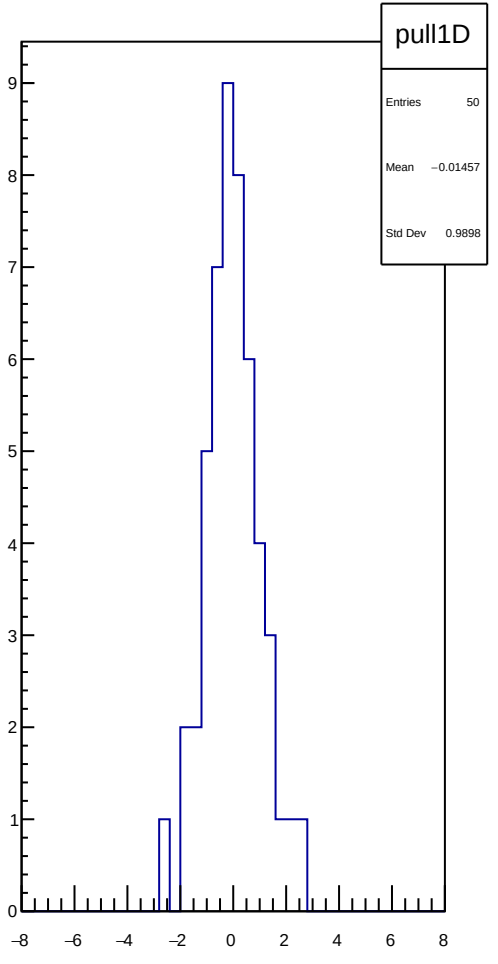
3950. 4

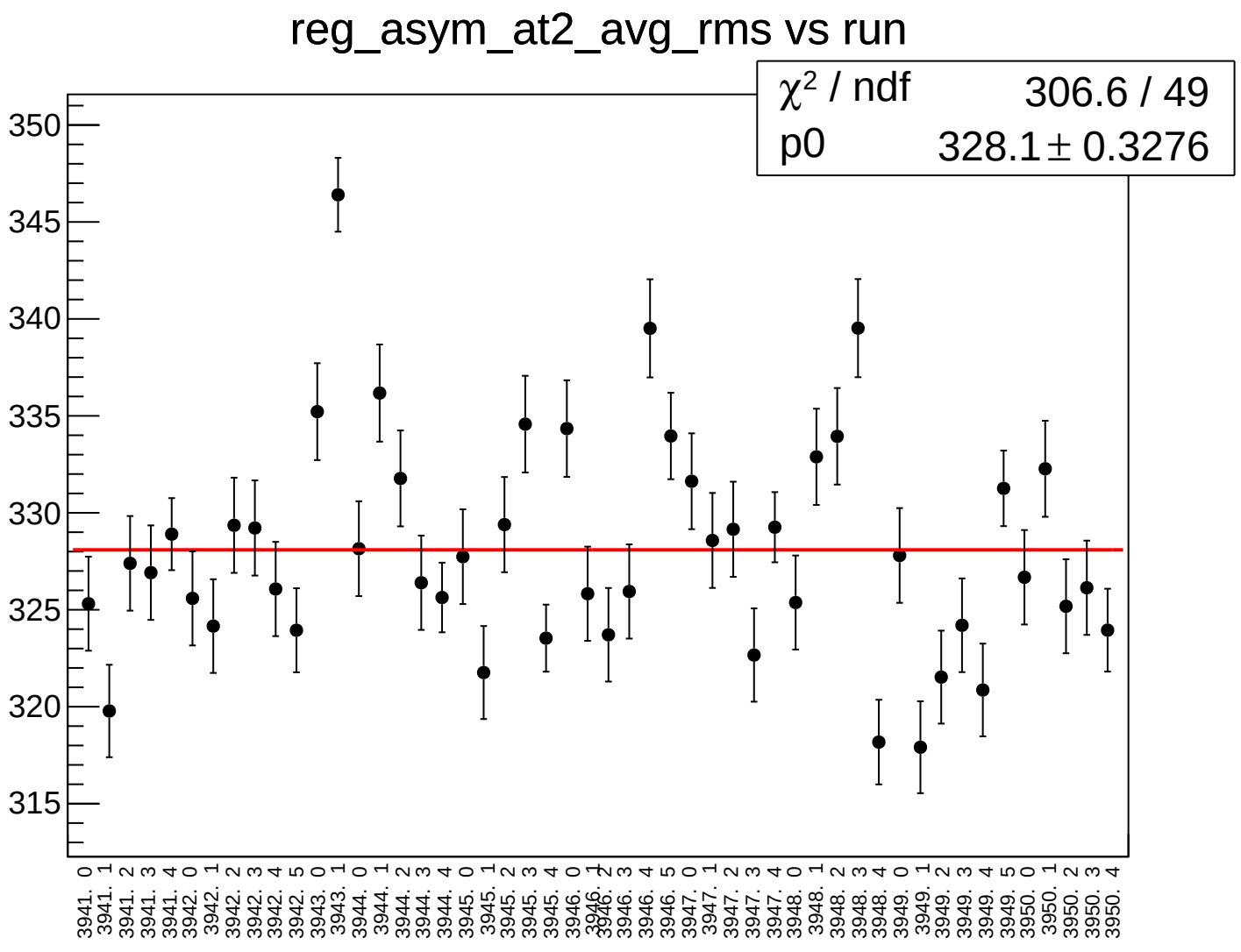

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 47.26 / 49
p0 −150.1± 2137
100
50
0
−50
−100
pull
Entries 50
Mean 24.21
Std Dev 36.41
2
1
0
−1
−2

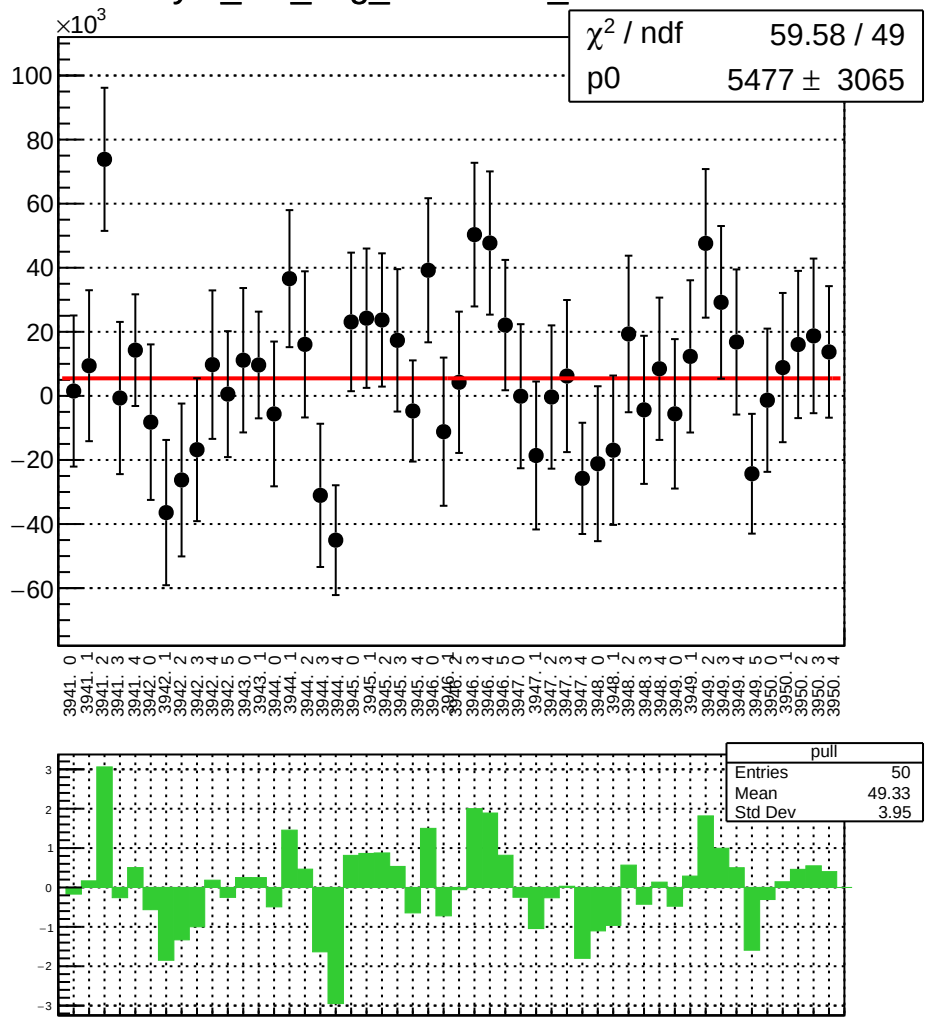

pull1D
Entries 50
Mean −0.01243
Std Dev 0.9721
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

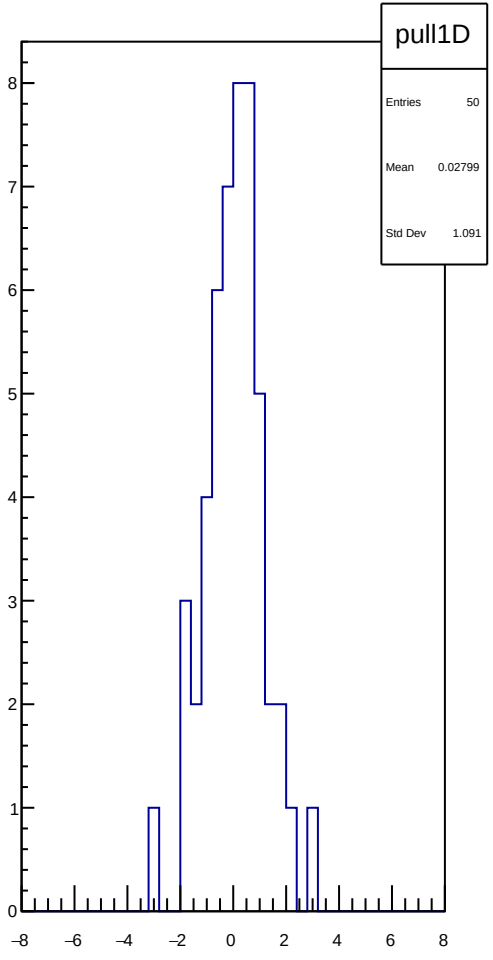

asym_at1_dd_rms vs run
χ² / ndf 5.171e+04 / 49
p0 1474 ± 1.511
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

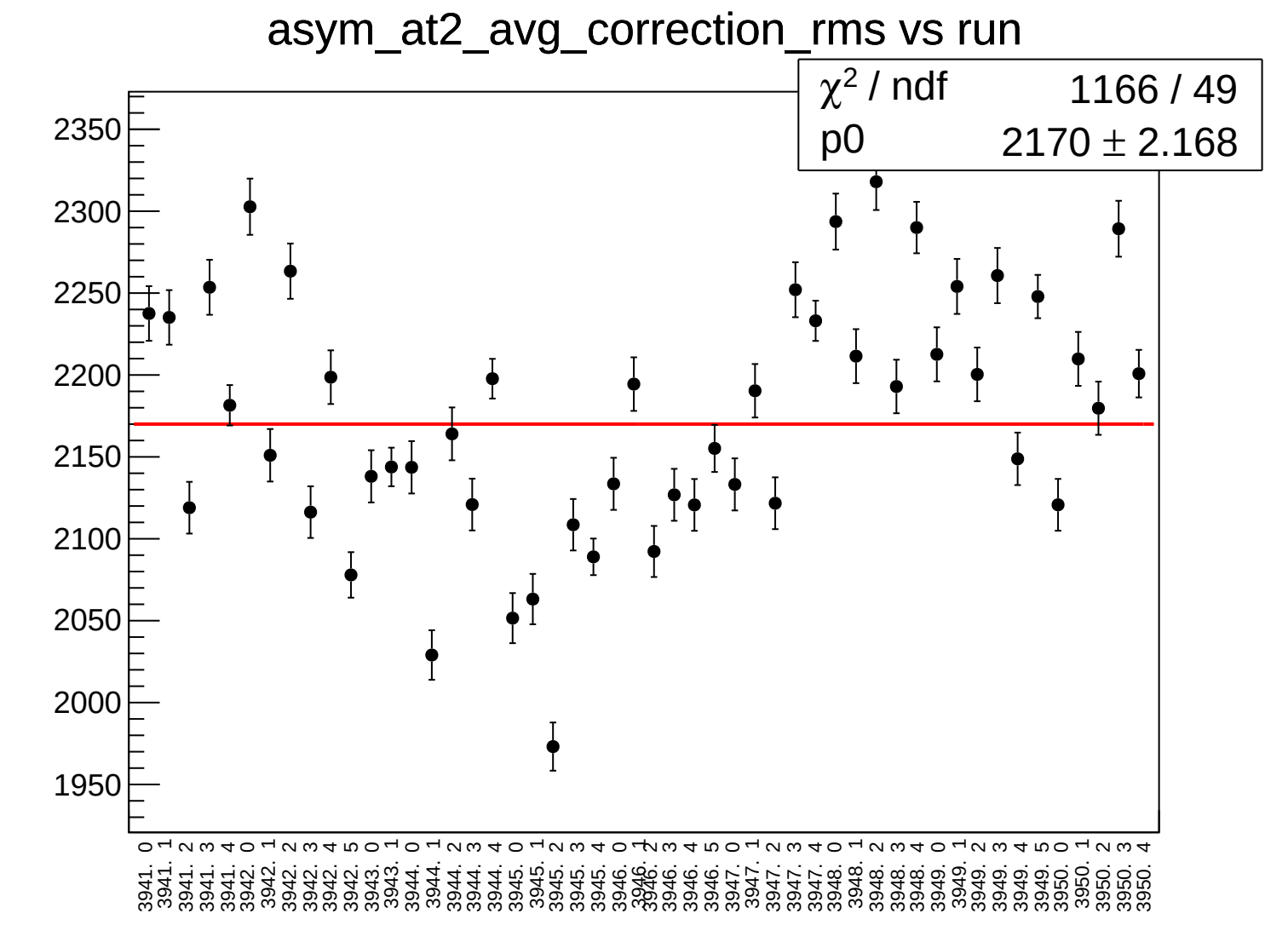

reg_asym_at2_avg_mean vs run
χ² / ndf 49 / 49
p0 144.8 ± 463.3
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 211.1
Std Dev 185.5
2
1
0
−1
−2

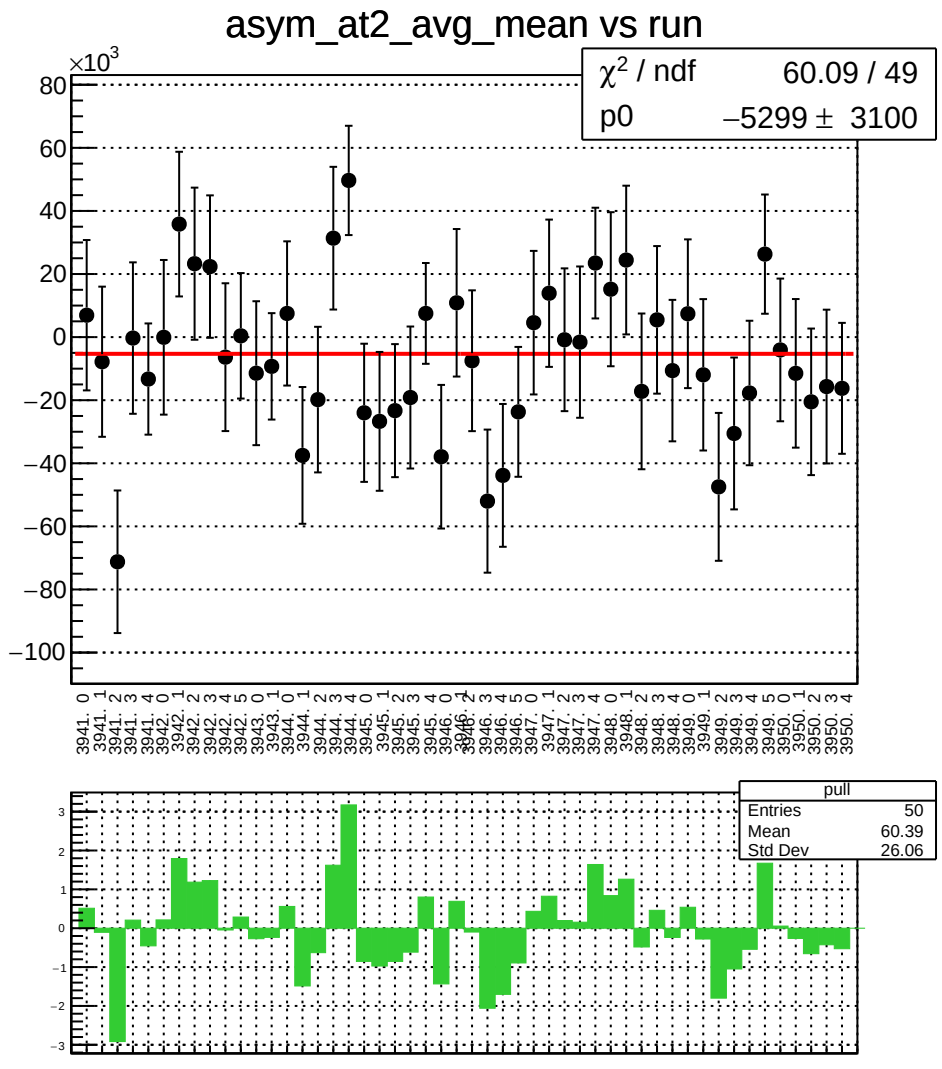

pull1D
Entries 50
Mean −0.01457
Std Dev 0.9898
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

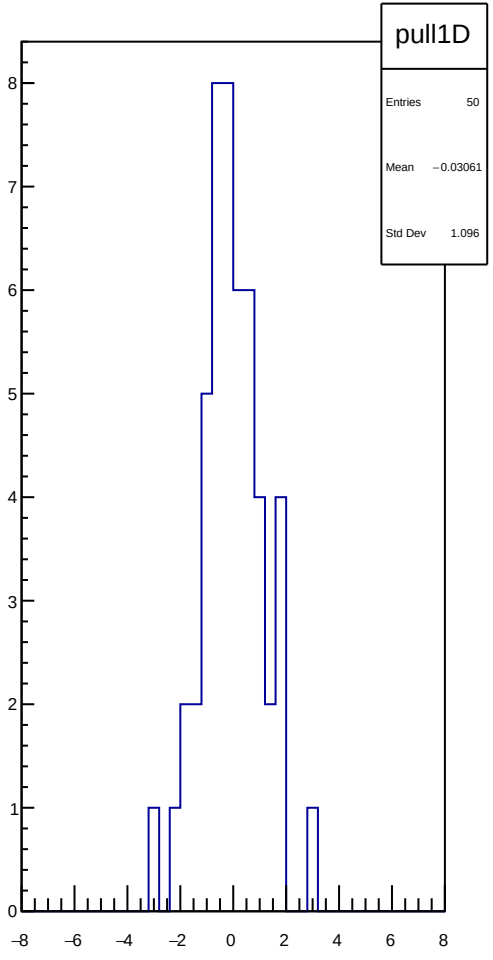

reg_asym_at2_avg_rms vs run
χ² / ndf 306.6 / 49
p0 328.1 ± 0.3276
350
345
340
335
330
325
320
315
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

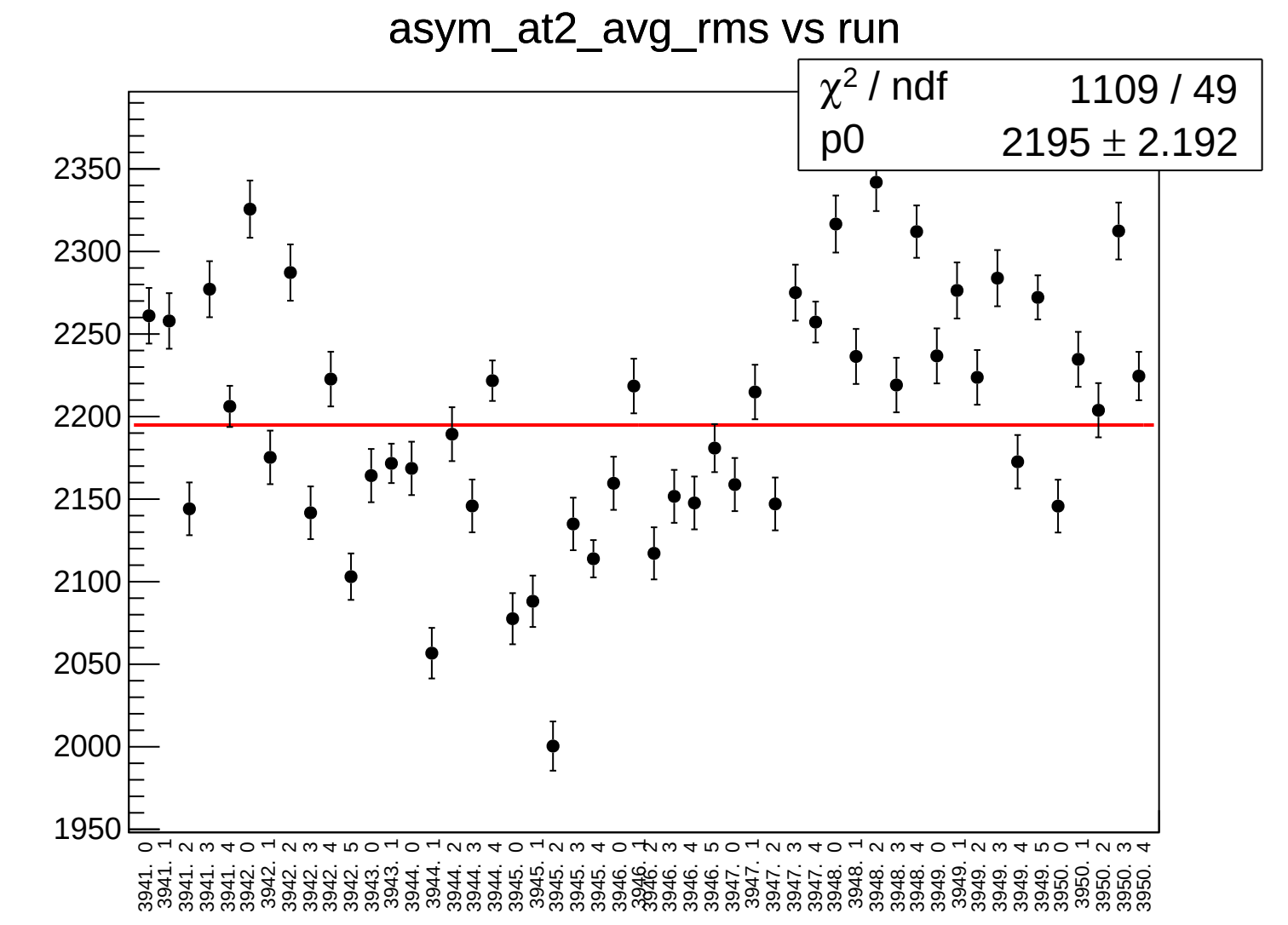

asym_at2_avg_correction_mean vs run
χ² / ndf 59.58 / 49
p0 5477 ± 3065
pull
Entries 50
Mean 49.33
Std Dev 3.95

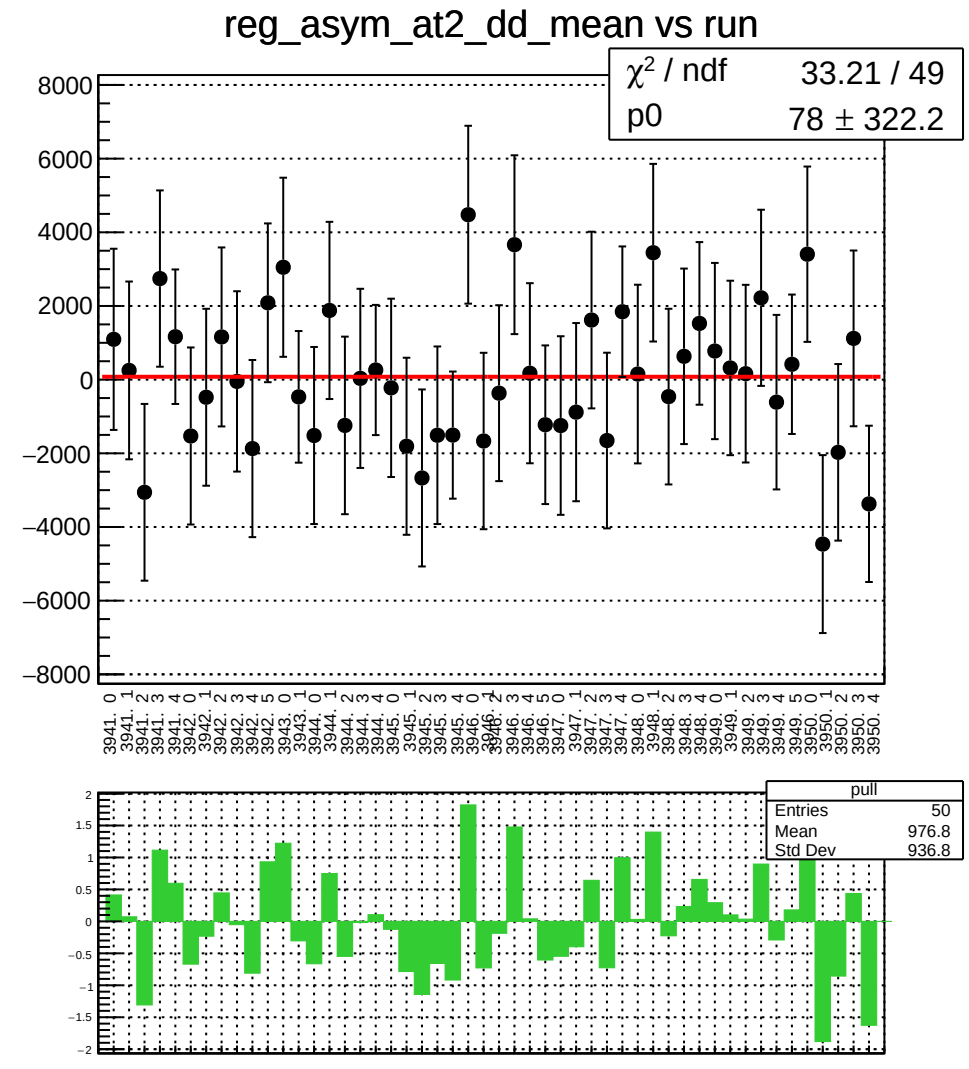

pull1D
Entries 50
Mean 0.02799
Std Dev 1.091

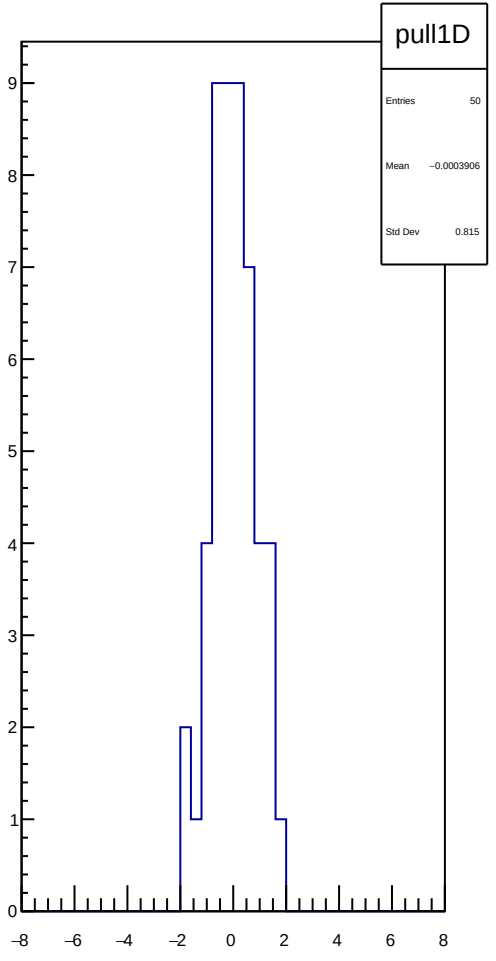

asym_at2_avg_correction_rms vs run
χ² / ndf 1166 / 49
p0 2170 ± 2.168
2350
2300
2250
2200
2150
2100
2050
2000
1950
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

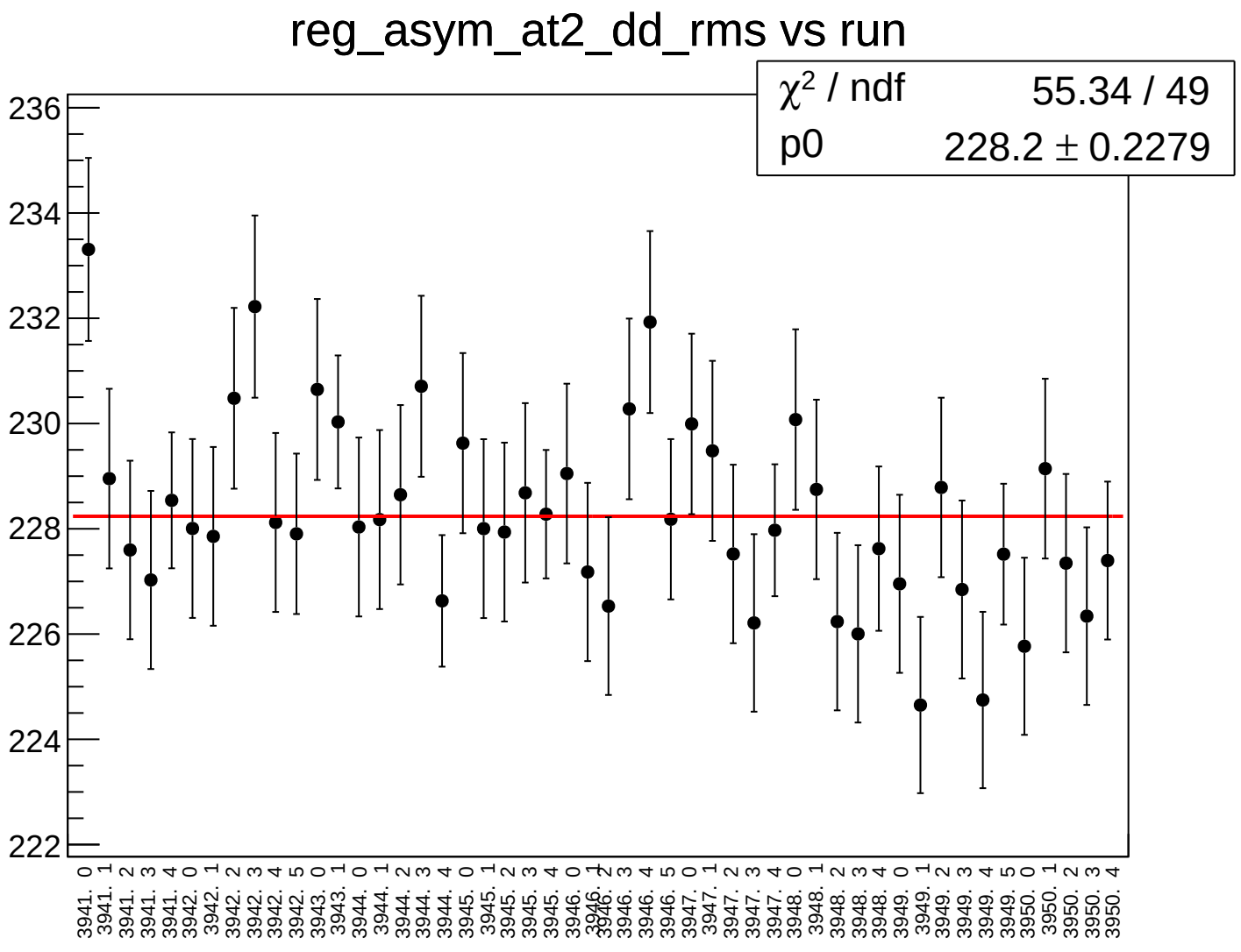

asym_at2_avg_mean vs run
×10^3
χ² / ndf 60.09 / 49
p0 −5299 ± 3100
pull
Entries 50
Mean 60.39
Std Dev 26.06

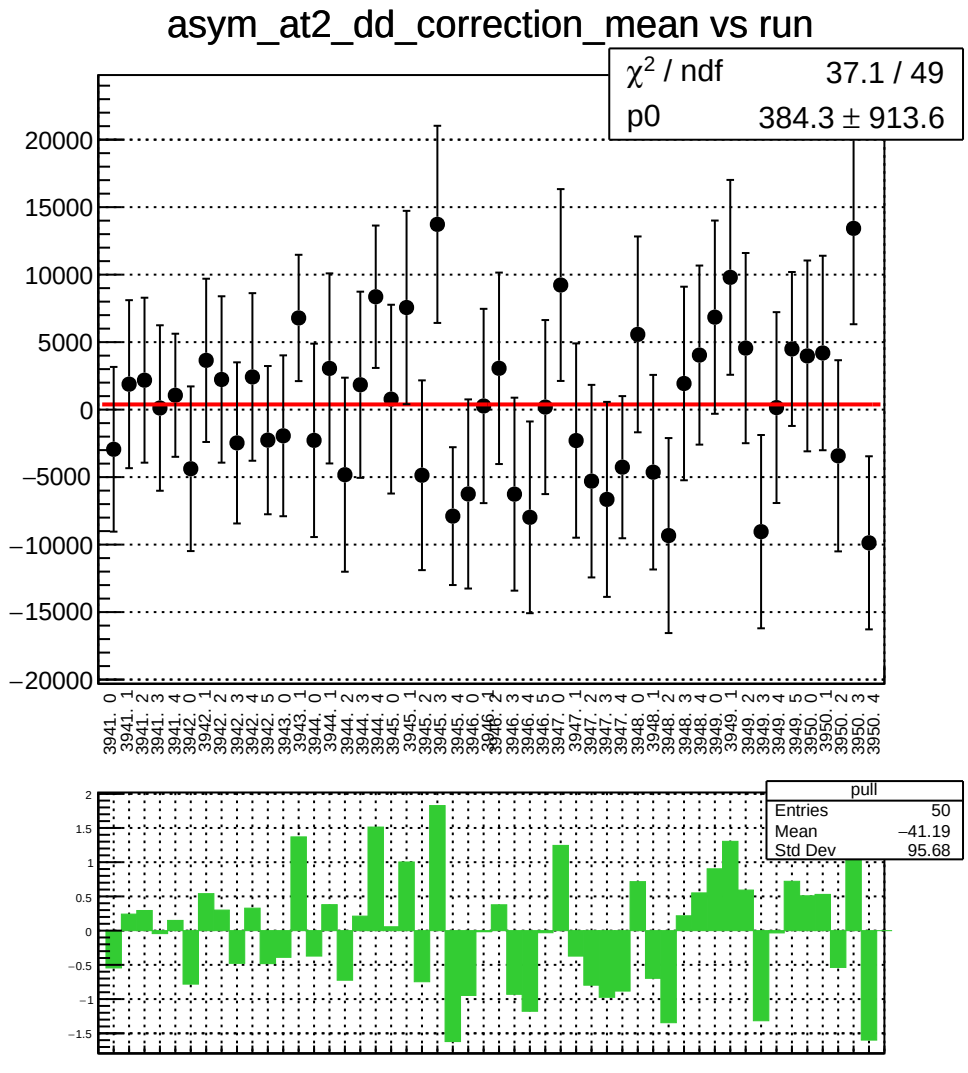

pull1D
Entries 50
Mean −0.03061
Std Dev 1.096

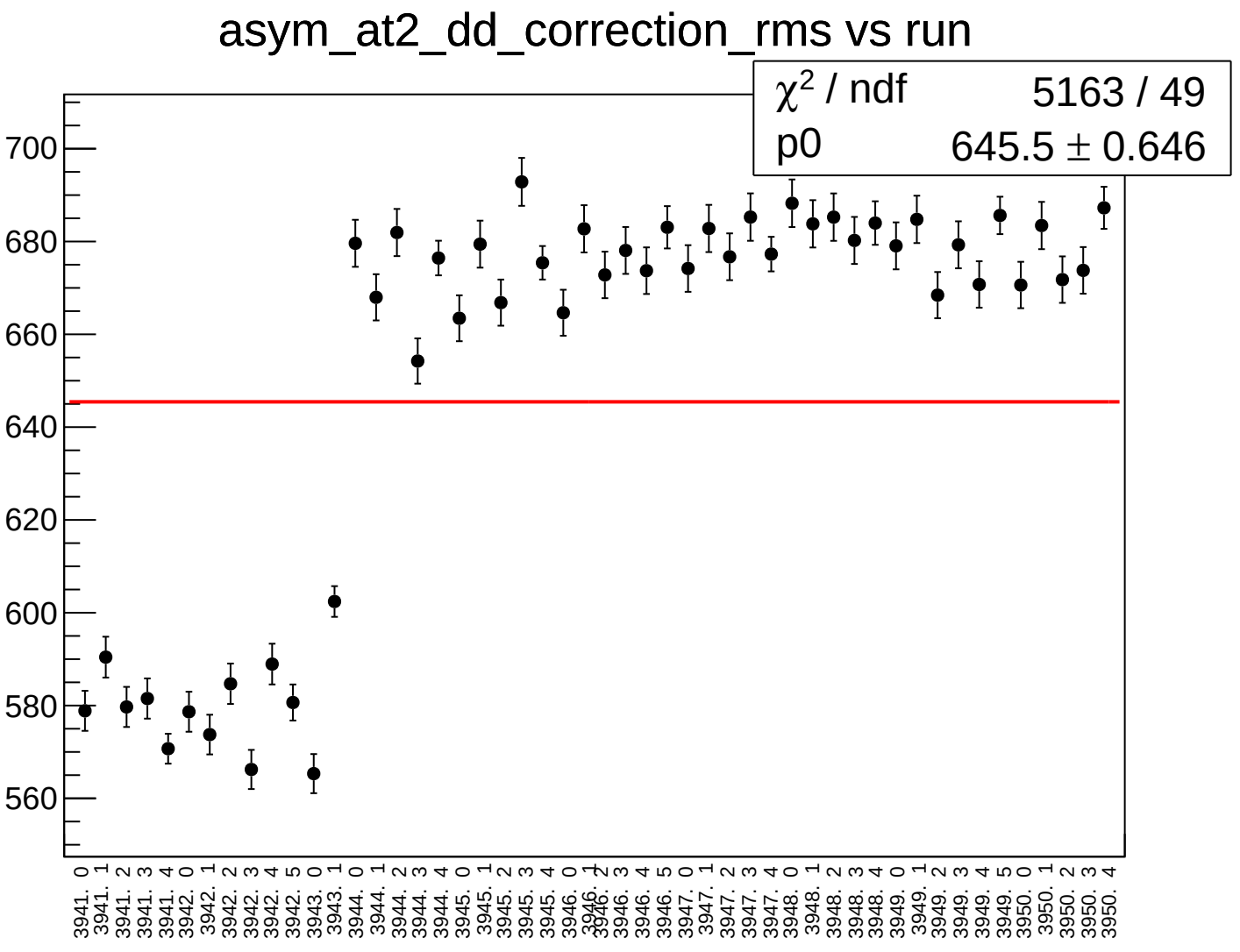

asym_at2_avg_rms vs run
χ² / ndf 1109 / 49
p0 2195 ± 2.192
2350
2300
2250
2200
2150
2100
2050
2000
1950
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

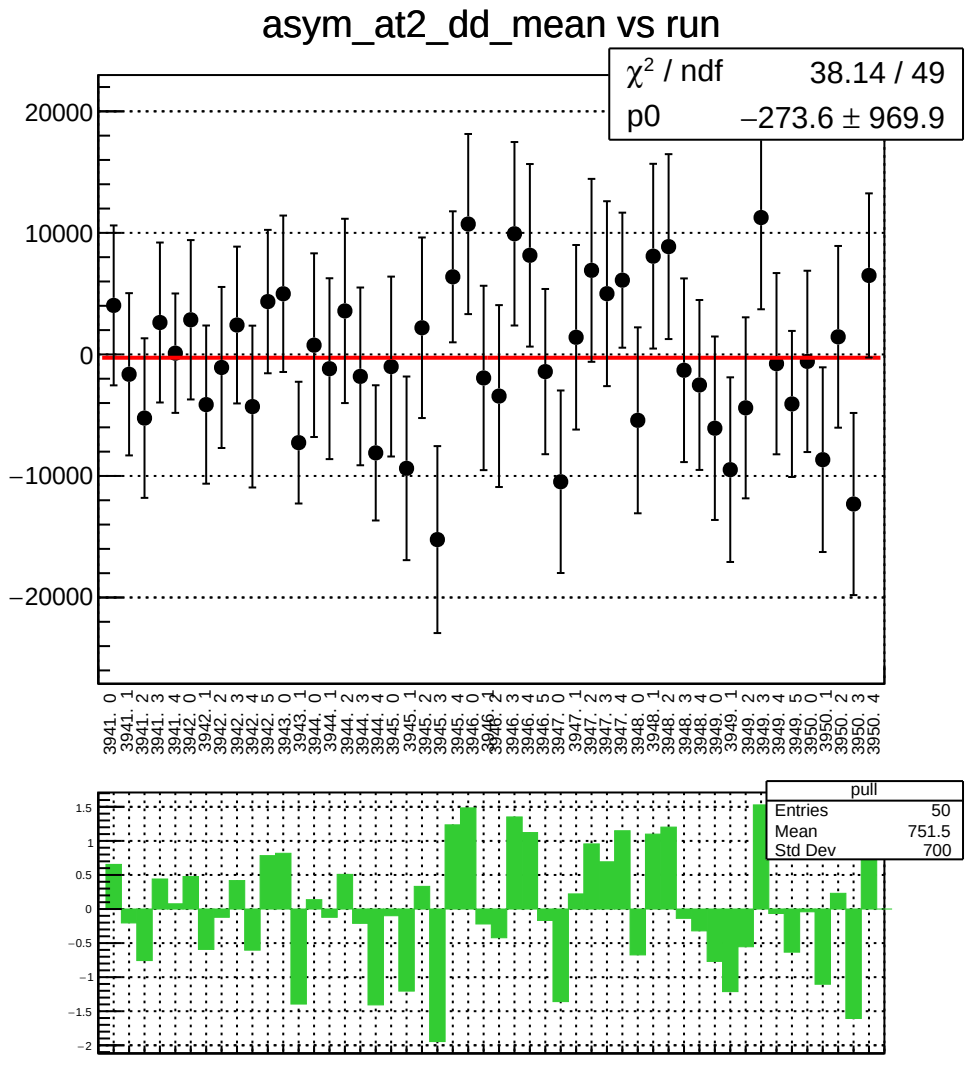

reg_asym_at2_dd_mean vs run
χ² / ndf 33.21 / 49
p0 78 ± 322.2
pull
Entries 50
Mean 976.8
Std Dev 936.8

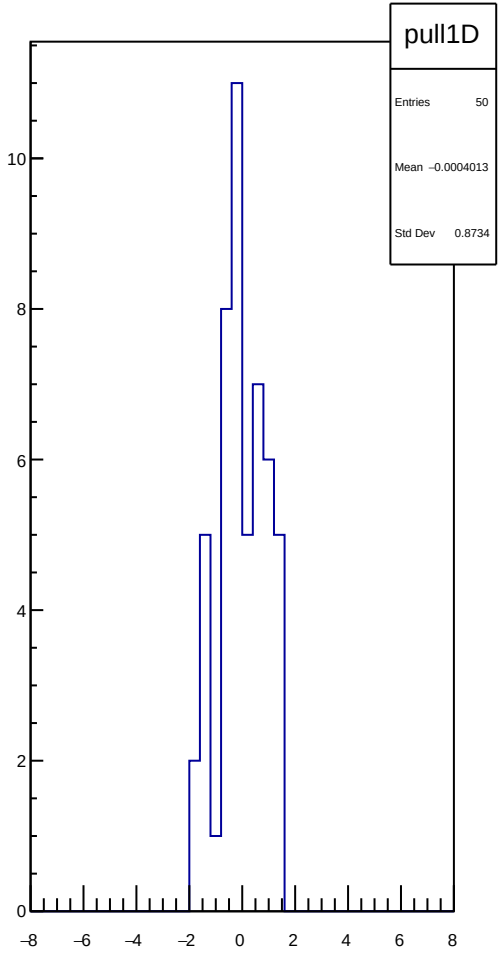

pull1D
Entries 50
Mean −0.0003906
Std Dev 0.815

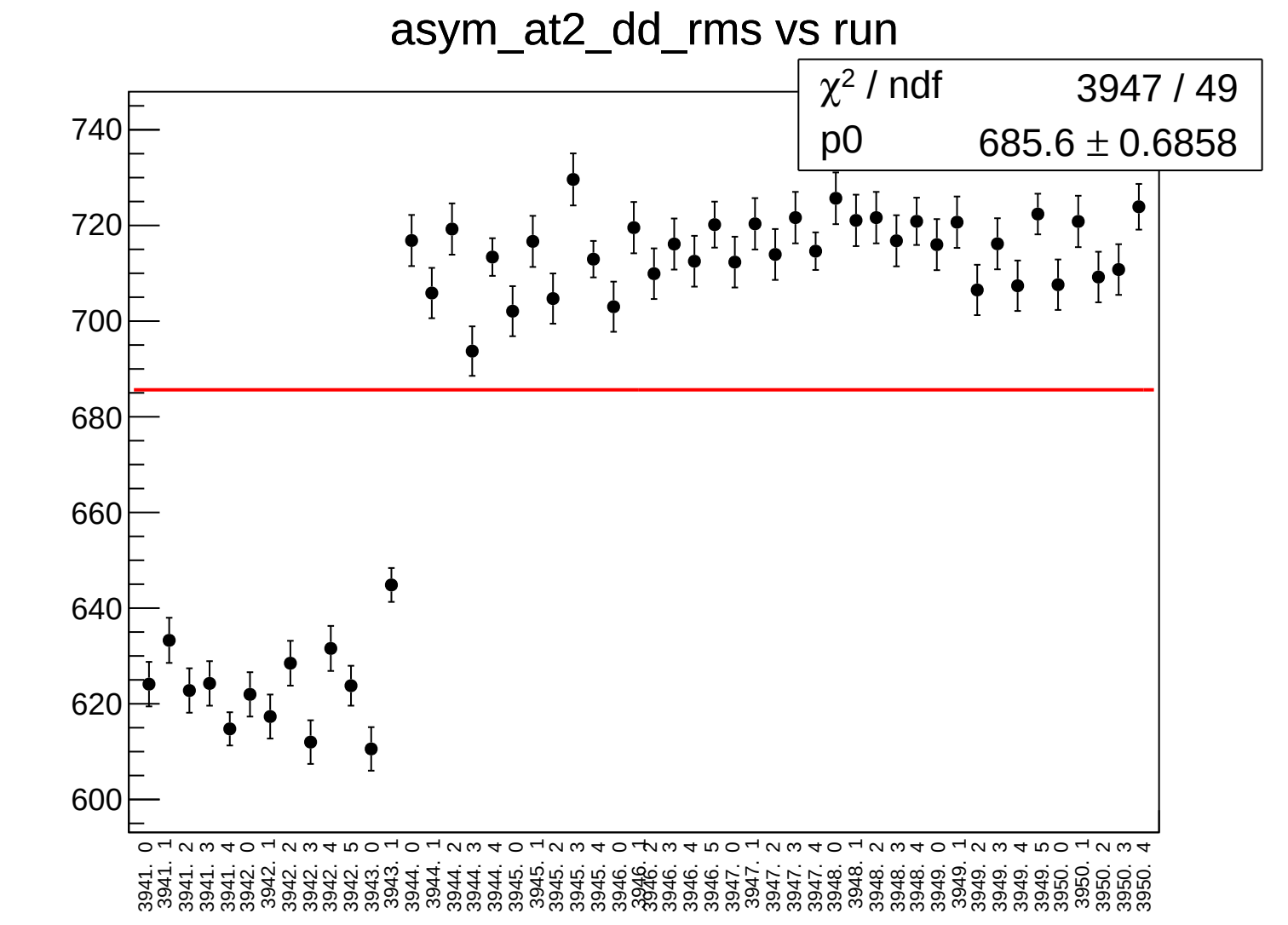

reg_asym_at2_dd_rms vs run
χ² / ndf 55.34 / 49
p0 228.2 ± 0.2279
236
234
232
230
228
226
224
222
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

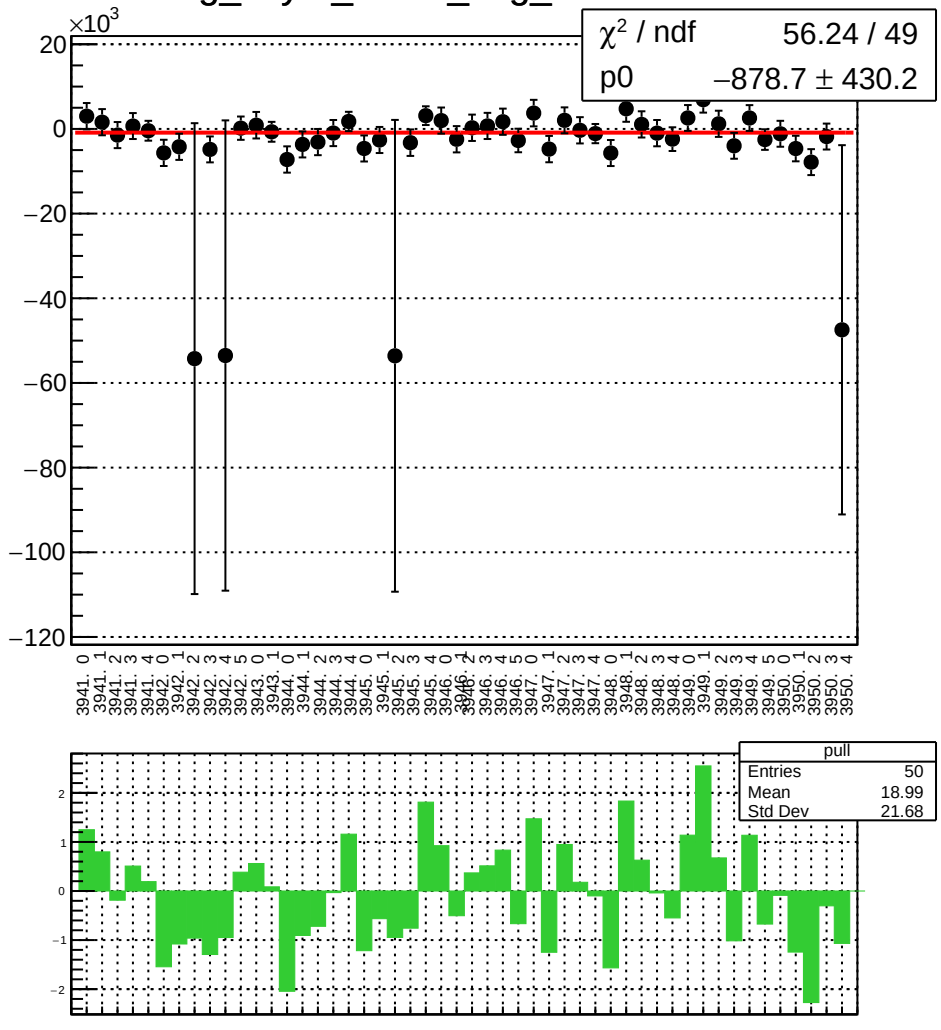

asym_at2_dd_correction_mean vs run
χ² / ndf 37.1 / 49
p0 384.3 ± 913.6
pull
Entries 50
Mean −41.19
Std Dev 95.68
pull1D
Entries 50
Mean −0.002449
Std Dev 0.8613

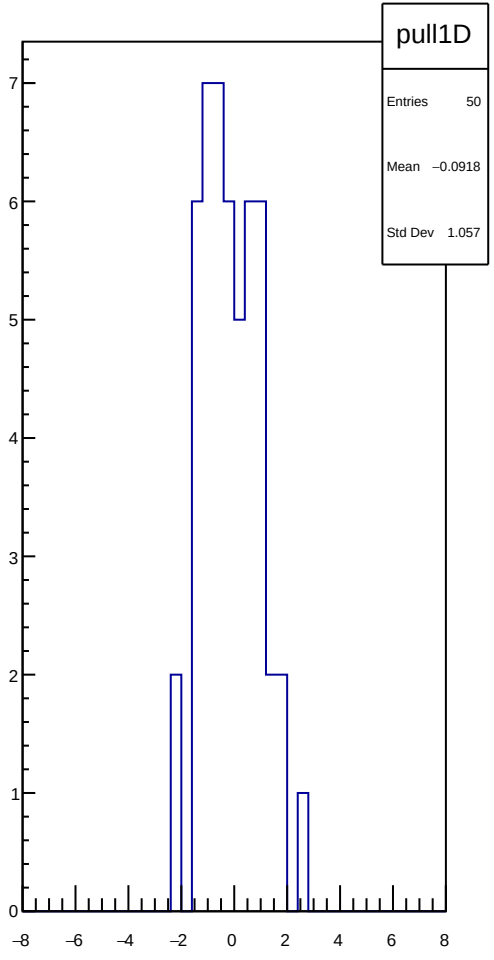

asym_at2_dd_correction_rms vs run
χ² / ndf 5163 / 49
p0 645.5 ± 0.646
700
680
660
640
620
600
580
560
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

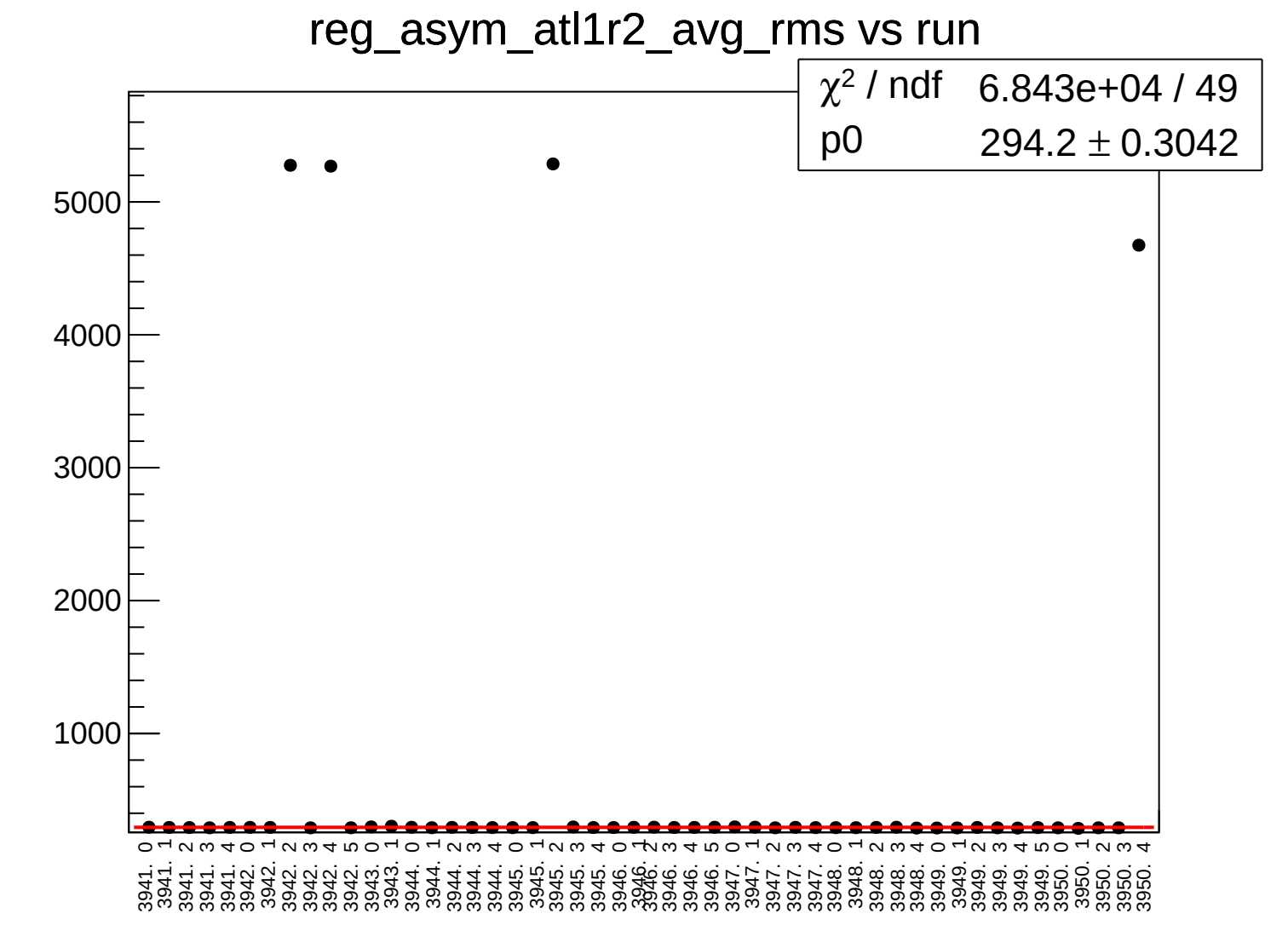

asym_at2_dd_mean vs run
χ² / ndf 38.14 / 49
p0 −273.6 ± 969.9
20000
10000
0
−10000
−20000
pull
Entries 50
Mean 751.5
Std Dev 700
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.0004013
Std Dev 0.8734
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
χ² / ndf 3947 / 49
p0 685.6 ± 0.6858
740
720
700
680
660
640
620
600
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


reg_asym_atl1r2_avg_mean vs run
χ² / ndf 56.24 / 49
p0 −878.7 ± 430.2
×10³
pull
Entries 50
Mean 18.99
Std Dev 21.68


pull1D
Entries 50
Mean −0.0918
Std Dev 1.057


reg_asym_atl1r2_avg_rms vs run
χ² / ndf 6.843e+04 / 49
p0 294.2 ± 0.3042
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
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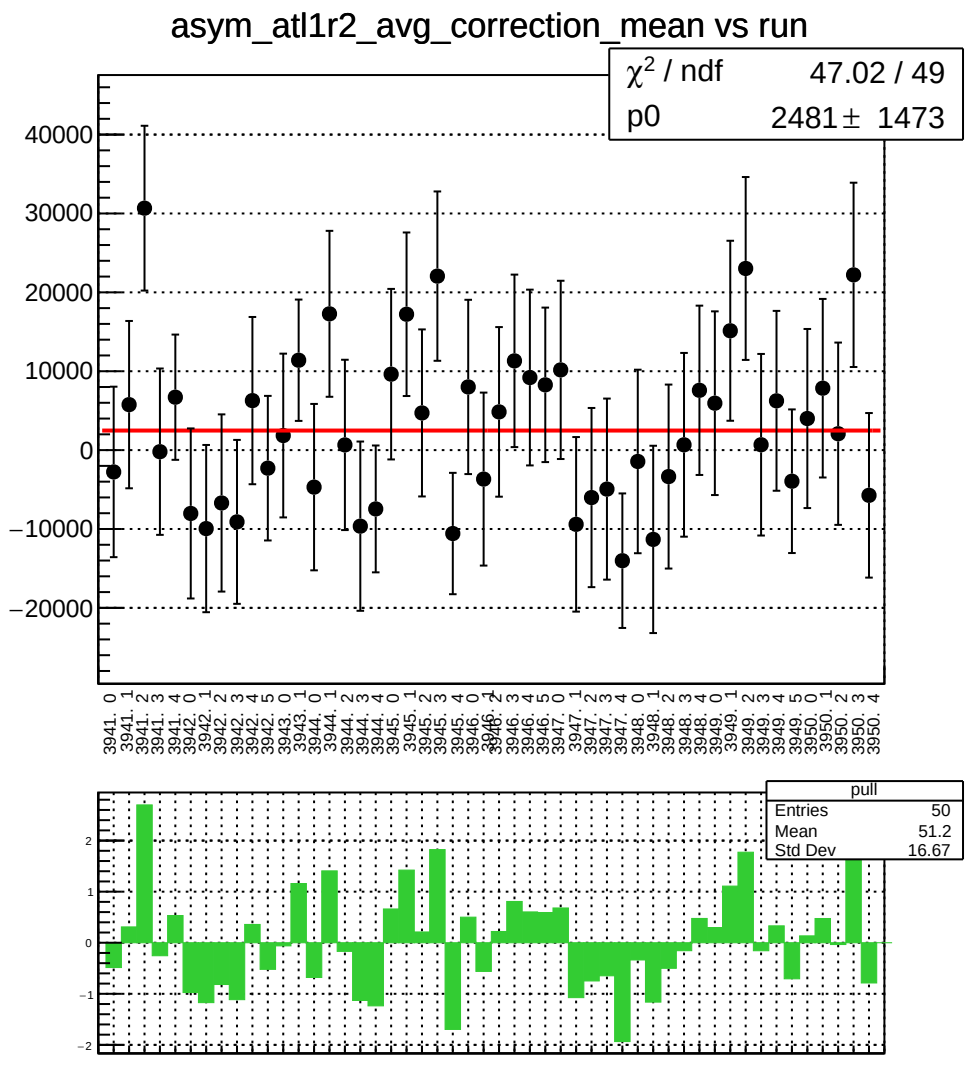
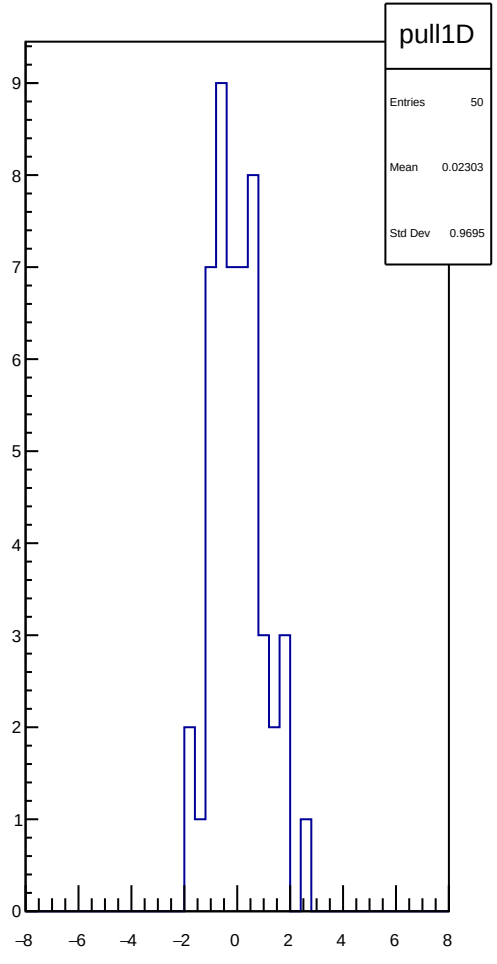
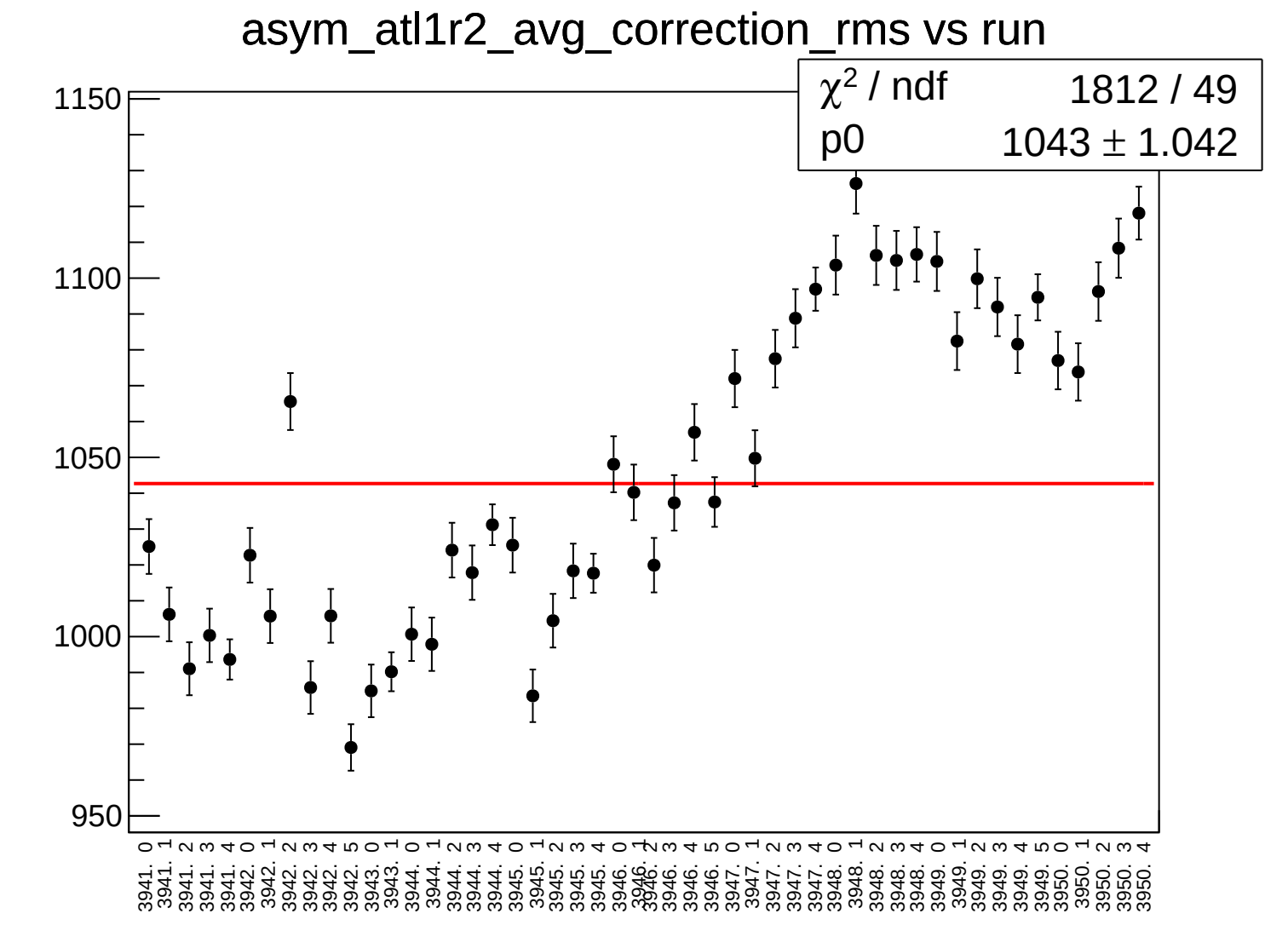
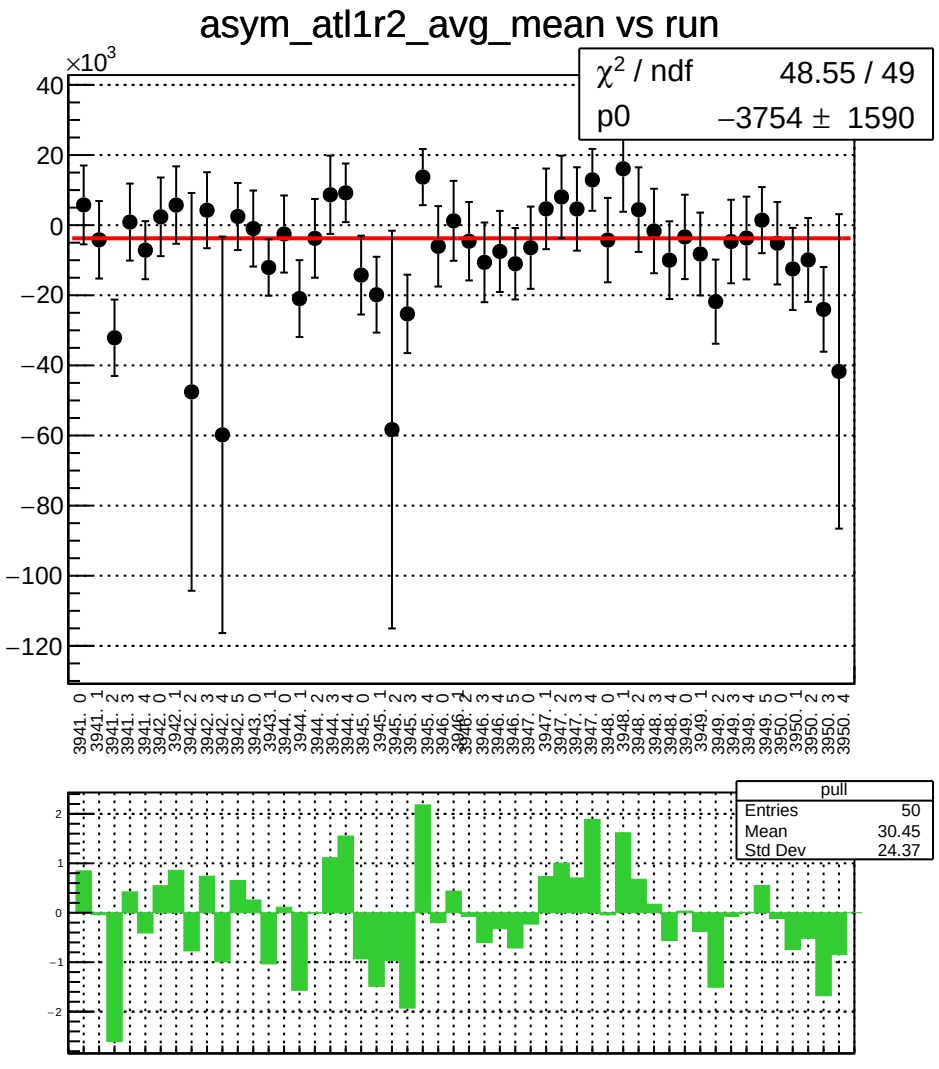
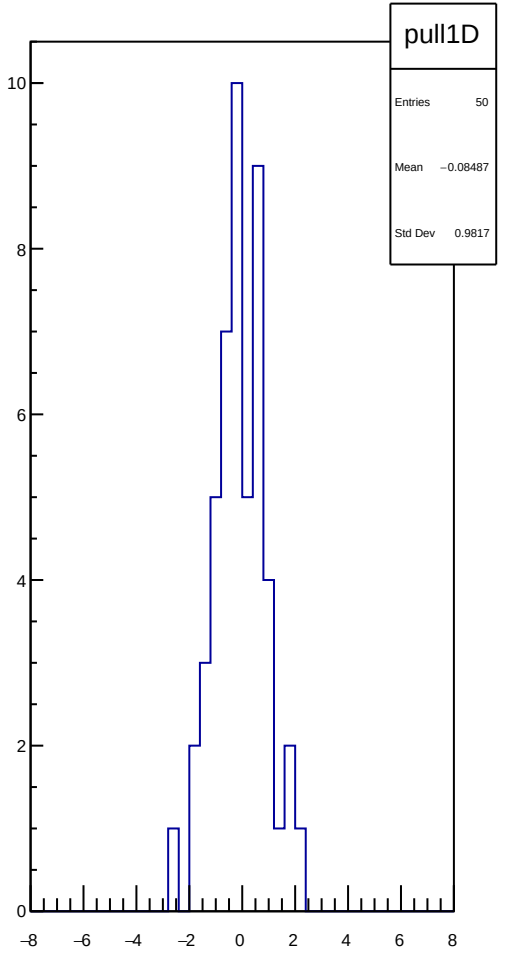
3950. 1
3950. 2
3950. 3
3950. 4

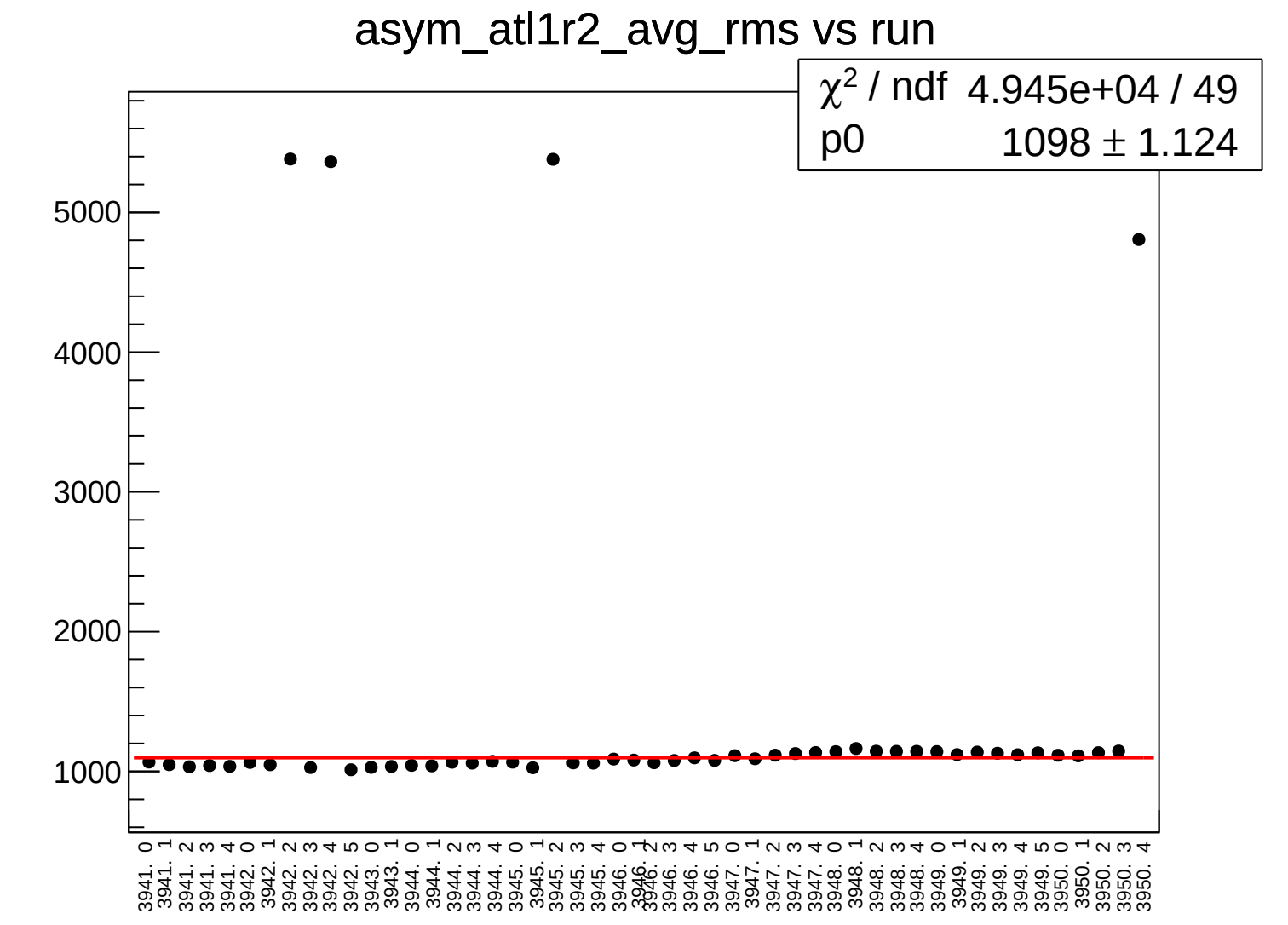

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 47.02 / 49
p0 2481 ± 1473
pull
Entries 50
Mean 51.2
Std Dev 16.67


pull1D
Entries 50
Mean 0.02303
Std Dev 0.9695


asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1812 / 49
p0 1043 ± 1.042
1150
1100
1050
1000
950
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 48.55 / 49
p0 −3754 ± 1590
pull
Entries 50
Mean 30.45
Std Dev 24.37


pull1D
Entries 50
Mean −0.08487
Std Dev 0.9817


asym_atl1r2_avg_rms vs run
χ² / ndf 4.945e+04 / 49
p0 1098 ± 1.124
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
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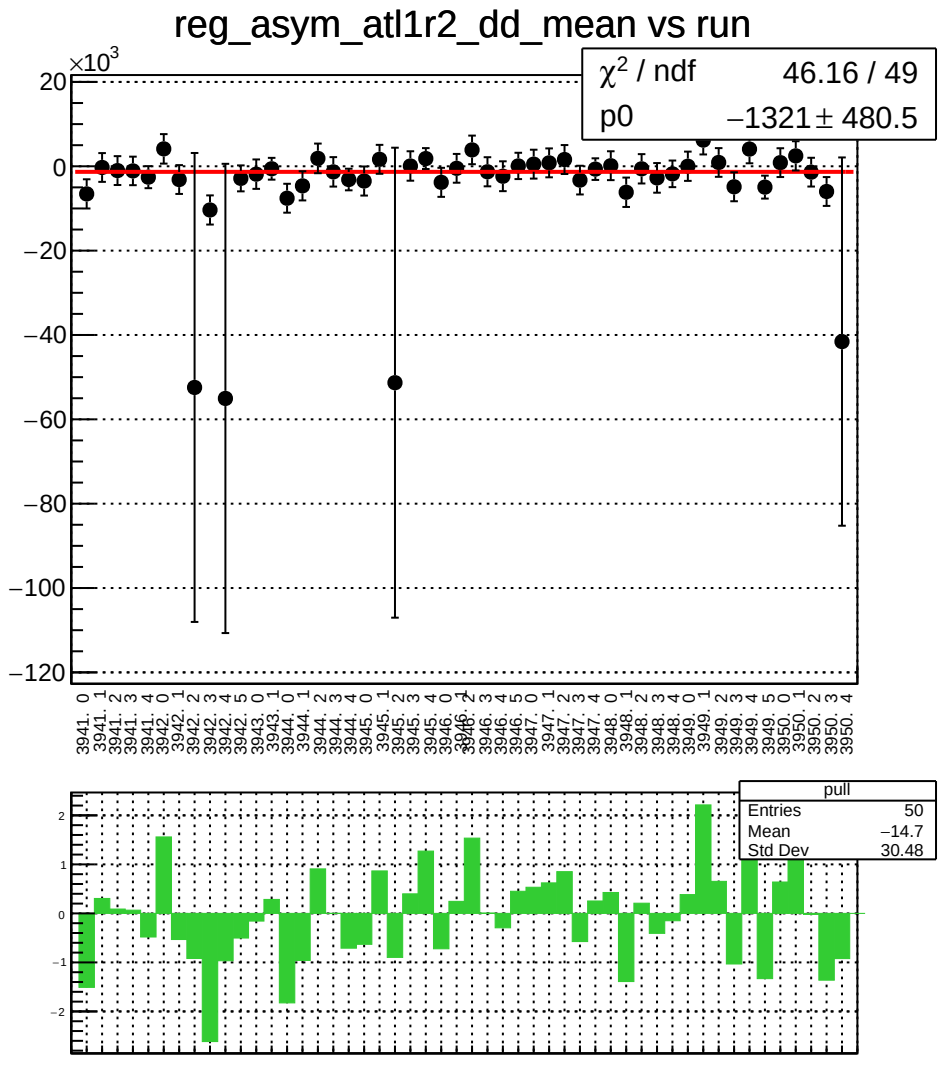
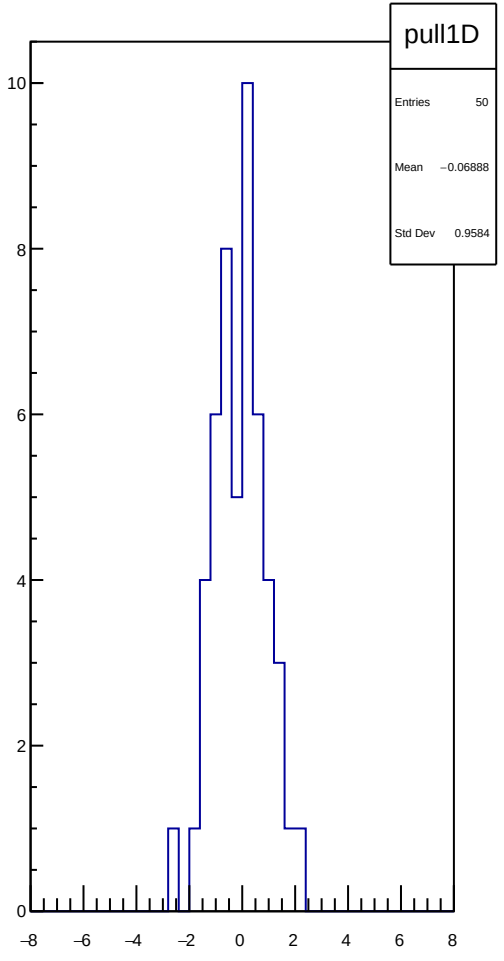
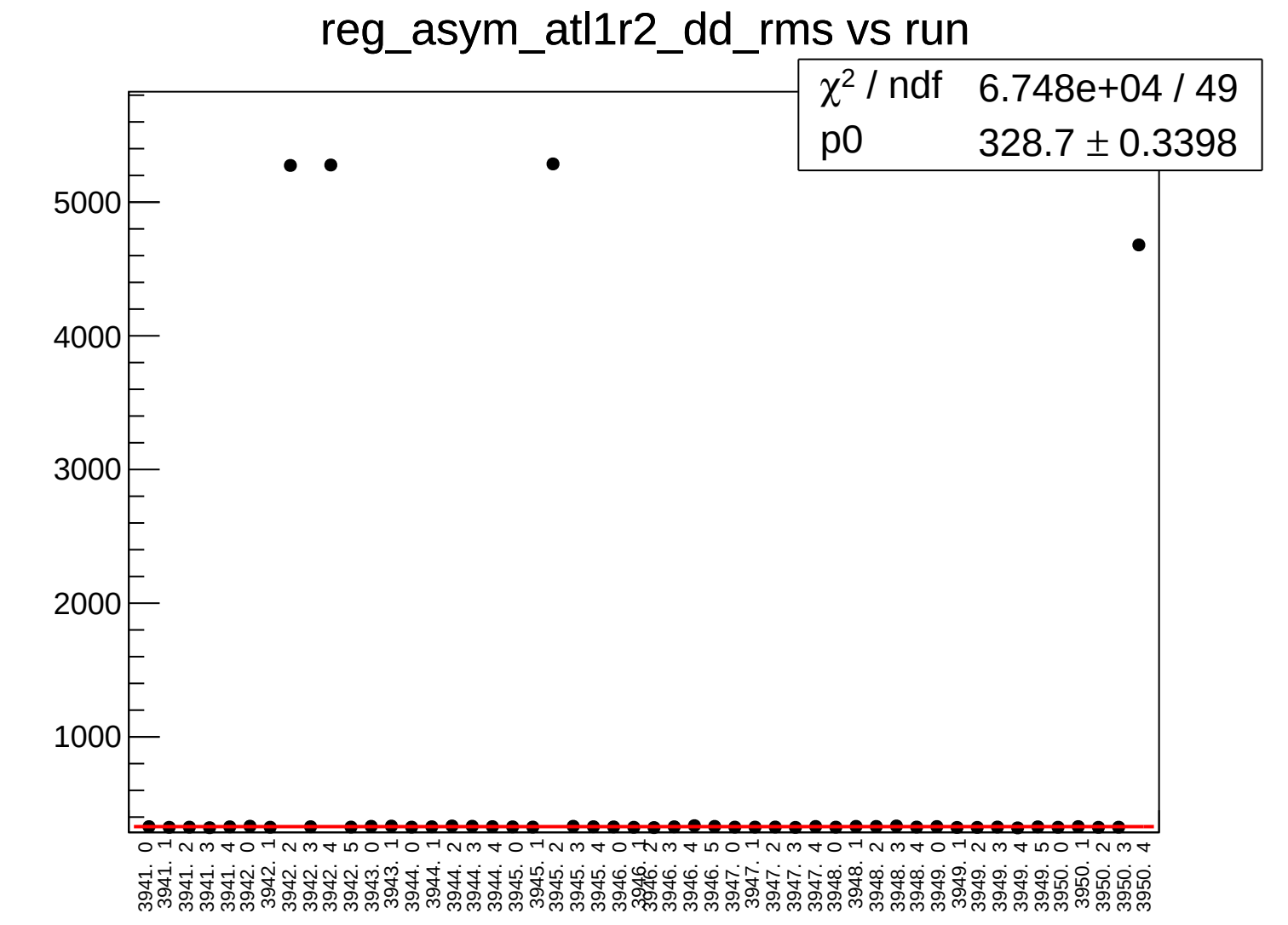
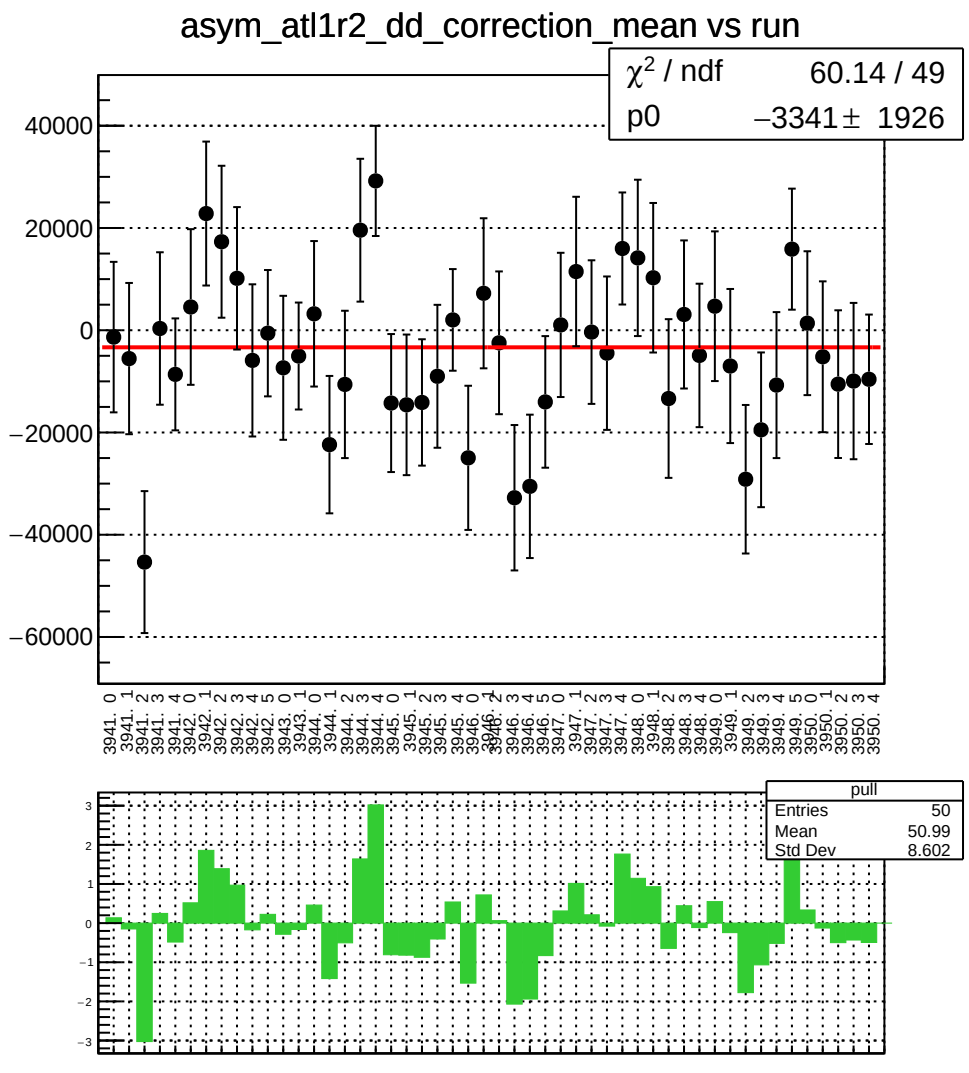
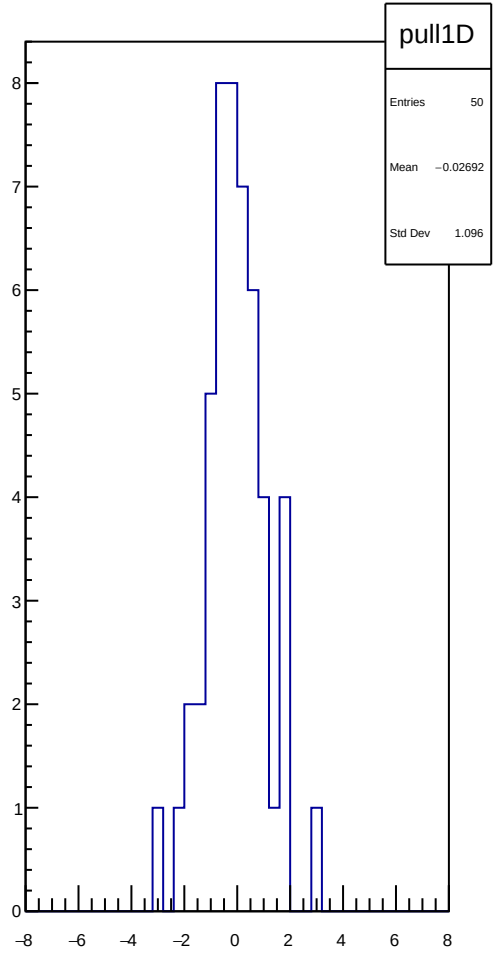
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

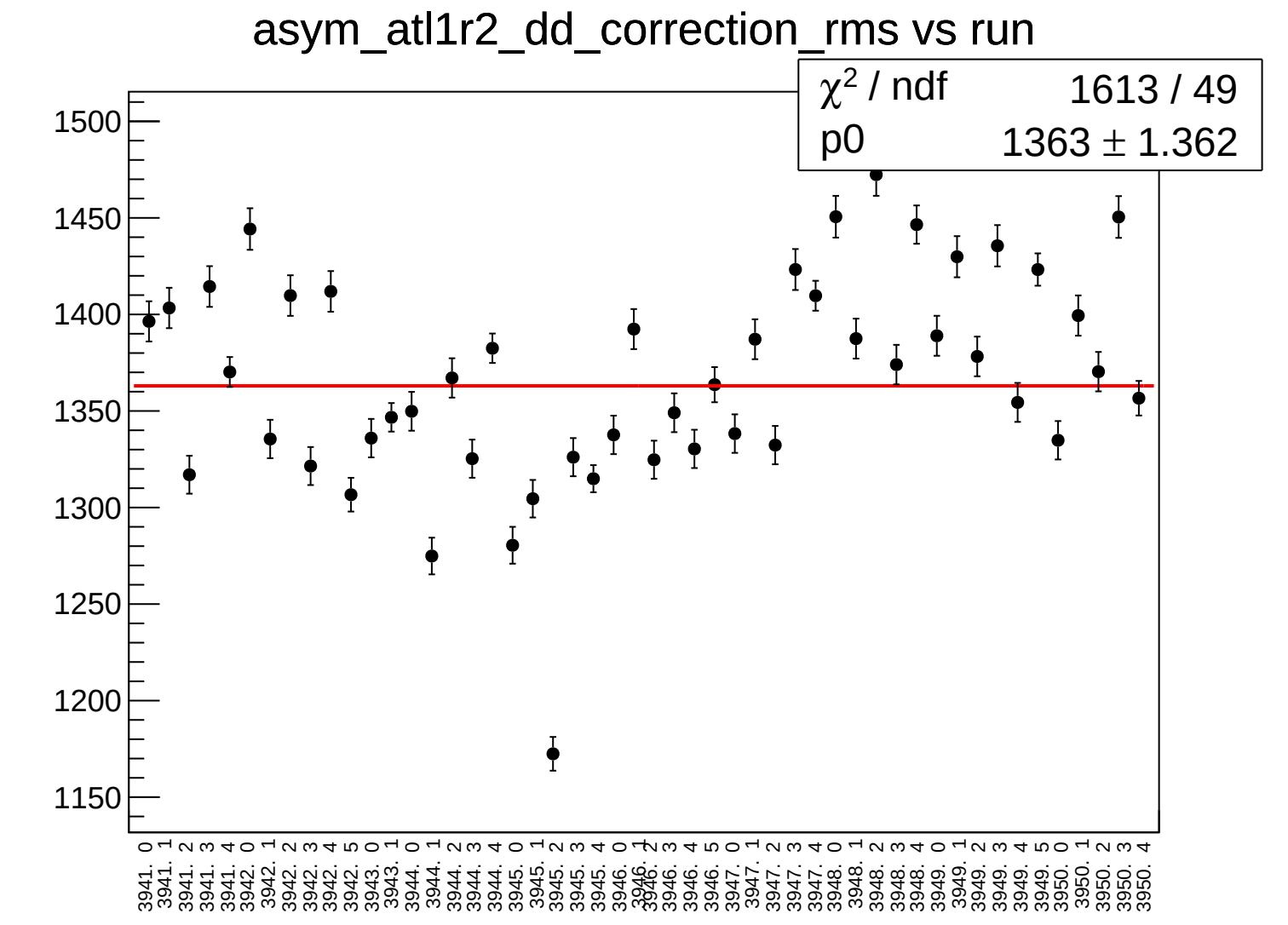

reg_asym_atl1r2_dd_mean vs run
$\chi^2$ / ndf 46.16 / 49
p0 −1321 ± 480.5
×10^3
pull
Entries 50
Mean −14.7
Std Dev 30.48

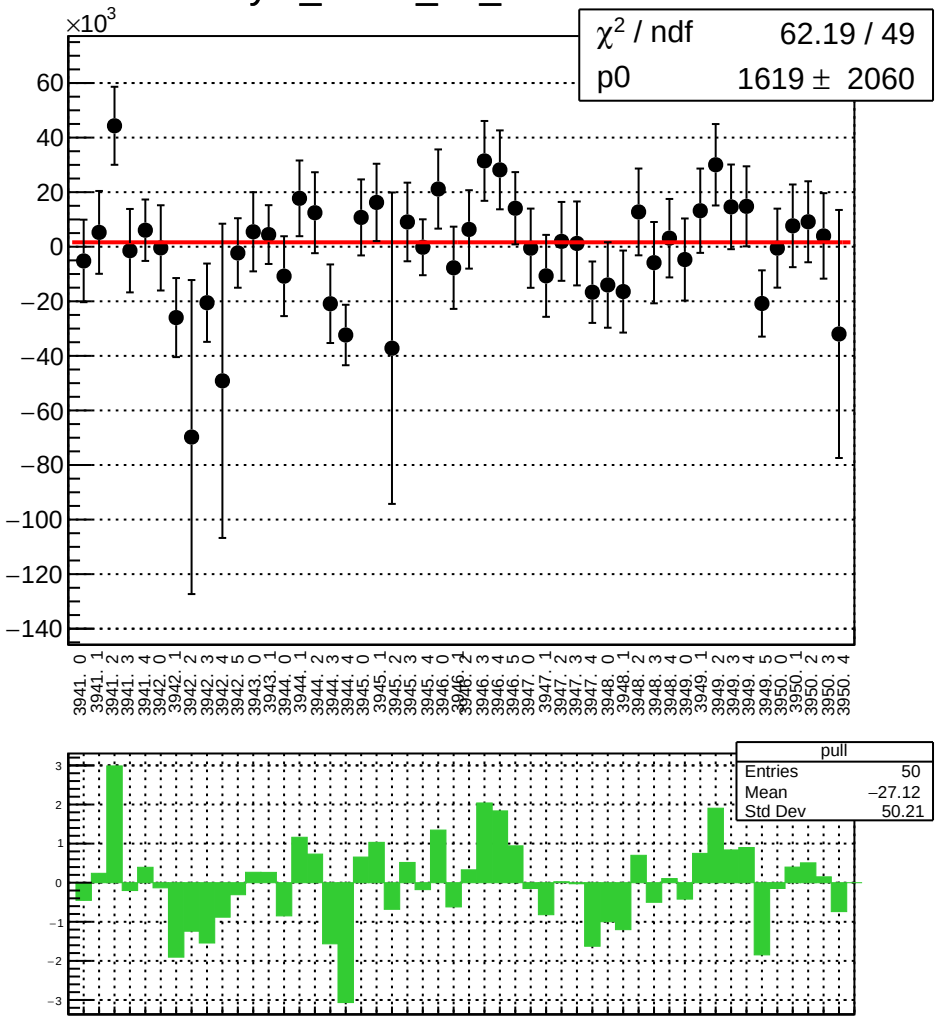

pull1D
Entries 50
Mean −0.06888
Std Dev 0.9584

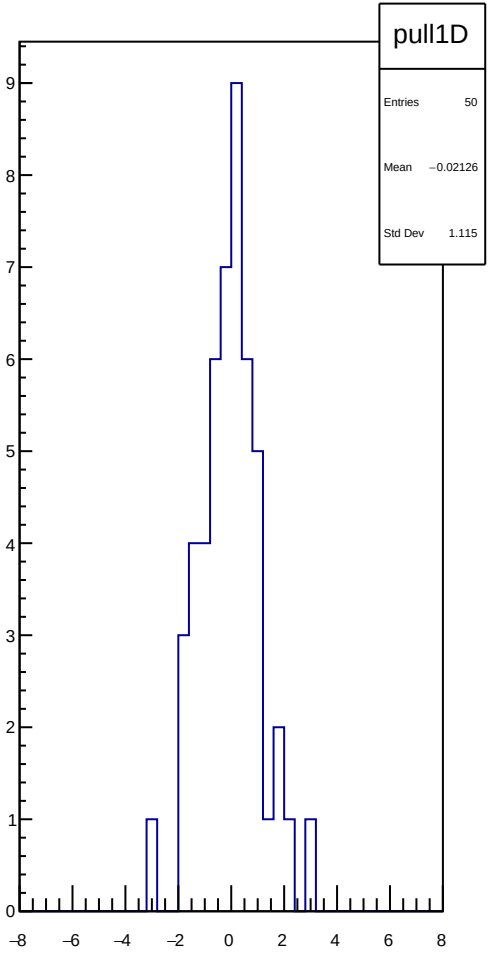

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 6.748e+04 / 49
p0 328.7 ± 0.3398
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

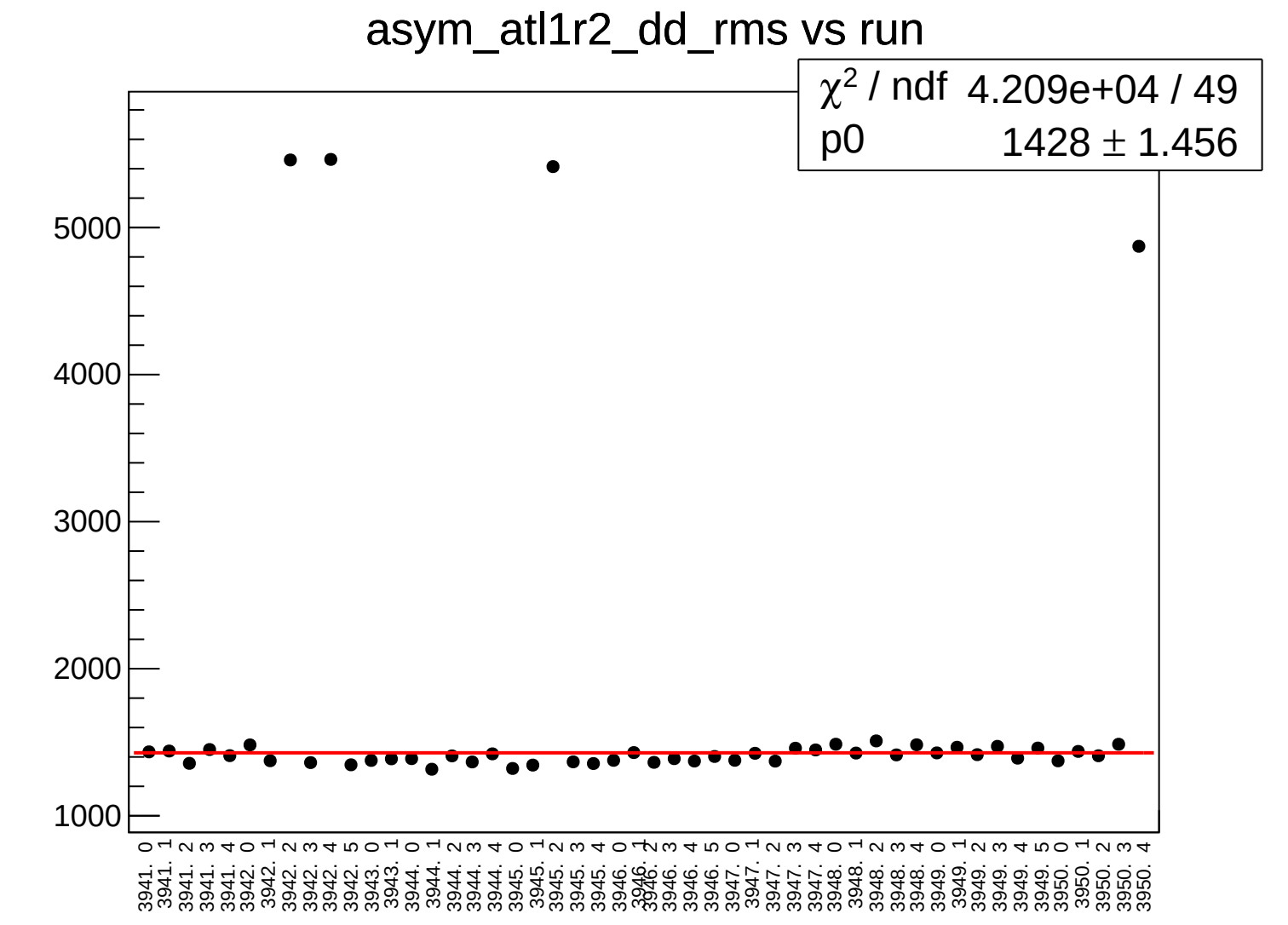

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 60.14 / 49
p0 −3341 ± 1926
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean 50.99
Std Dev 8.602
3
2
1
0
−1
−2
−3

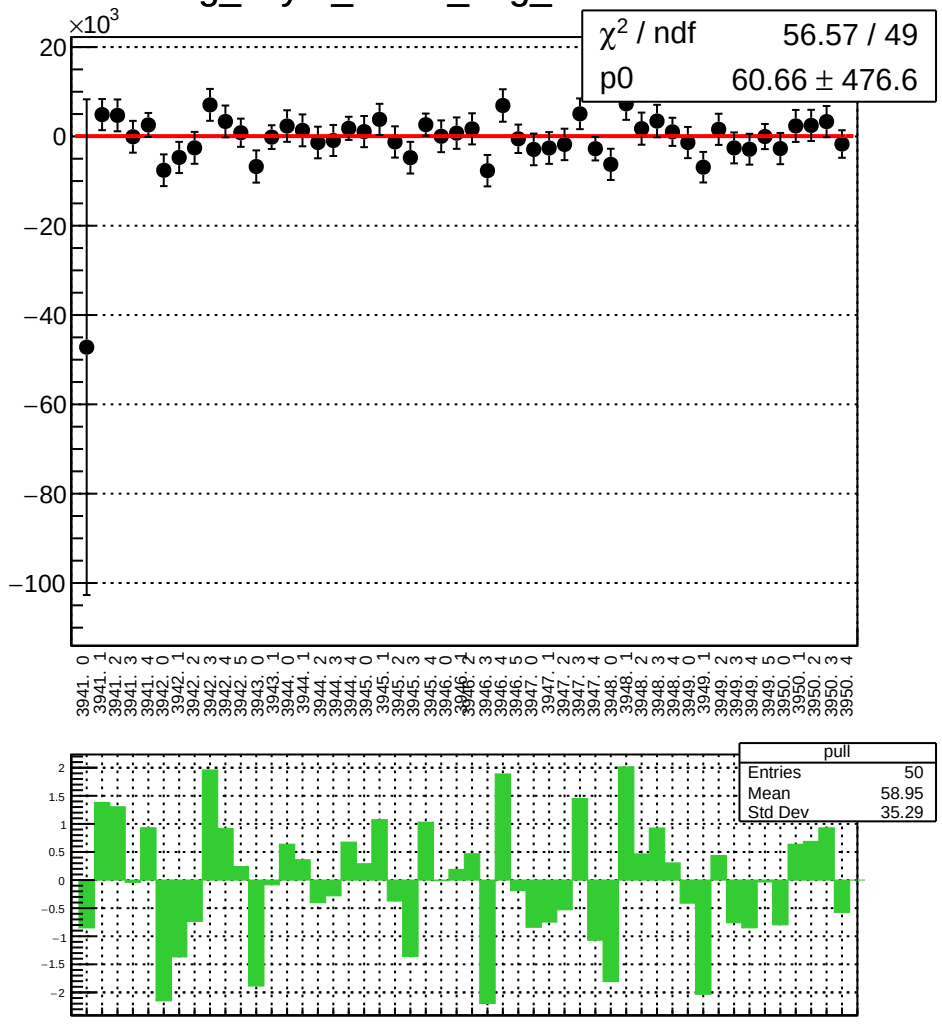

pull1D
Entries 50
Mean −0.02692
Std Dev 1.096
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

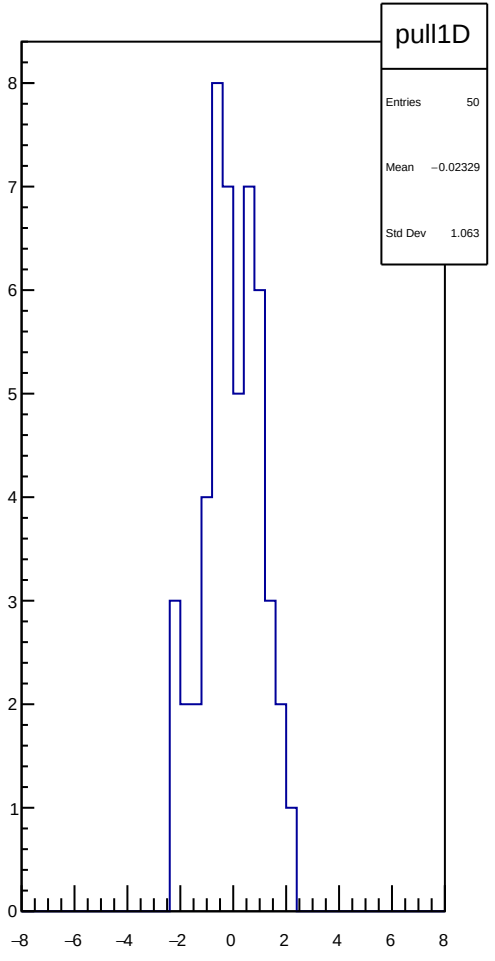

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1613 / 49
p0 1363 ± 1.362
1500
1450
1400
1350
1300
1250
1200
1150
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

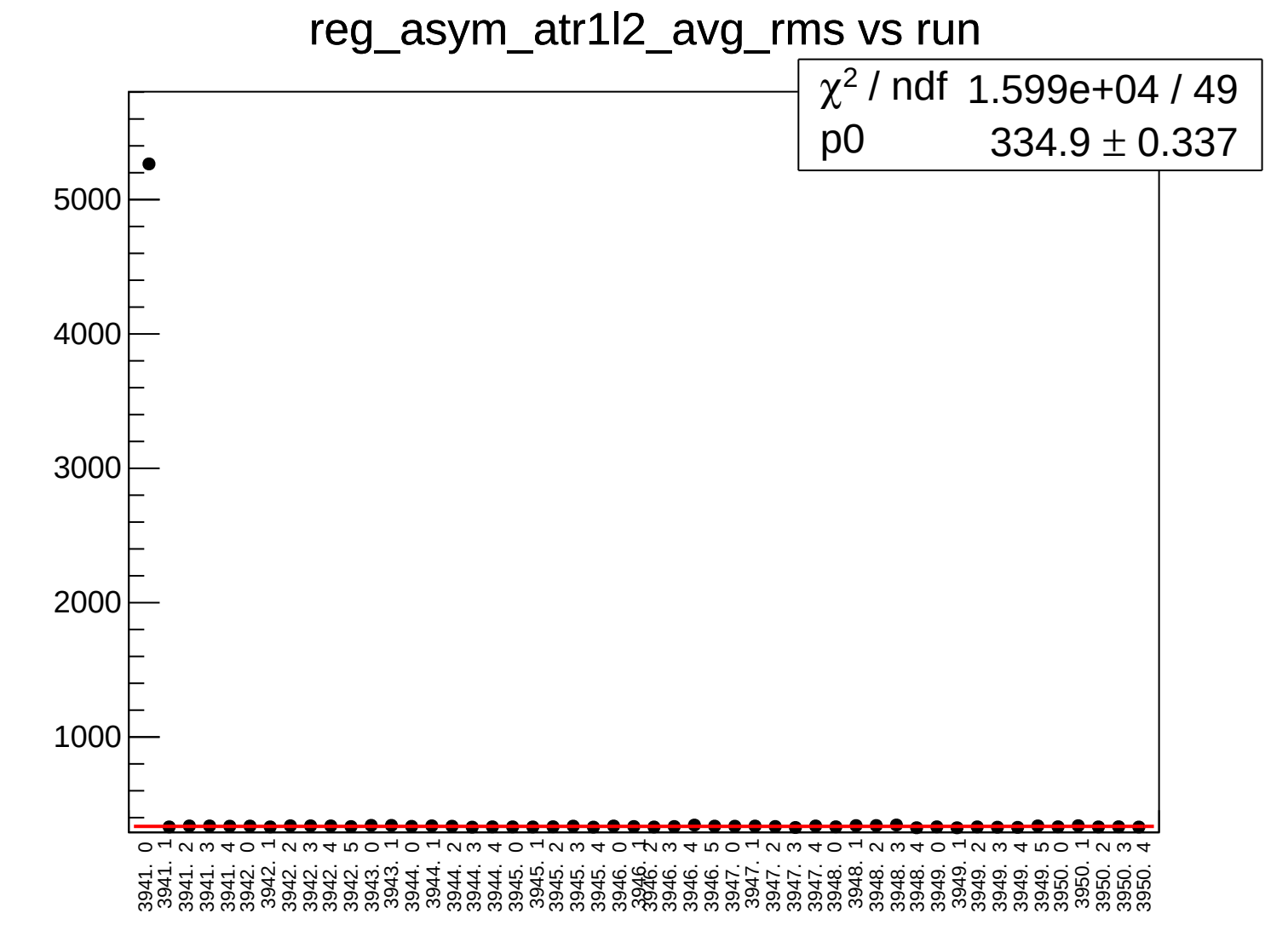

asym_atl1r2_dd_mean vs run
χ² / ndf 62.19 / 49
p0 1619 ± 2060
pull
Entries 50
Mean −27.12
Std Dev 50.21


pull1D
Entries 50
Mean −0.02126
Std Dev 1.115


asym_atl1r2_dd_rms vs run
χ² / ndf 4.209e+04 / 49
p0 1428 ± 1.456
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 56.57 / 49
p0 60.66 ± 476.6
pull
Entries 50
Mean 58.95
Std Dev 35.29


pull1D
Entries 50
Mean −0.02329
Std Dev 1.063


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.599e+04 / 49
p0 334.9 ± 0.337
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
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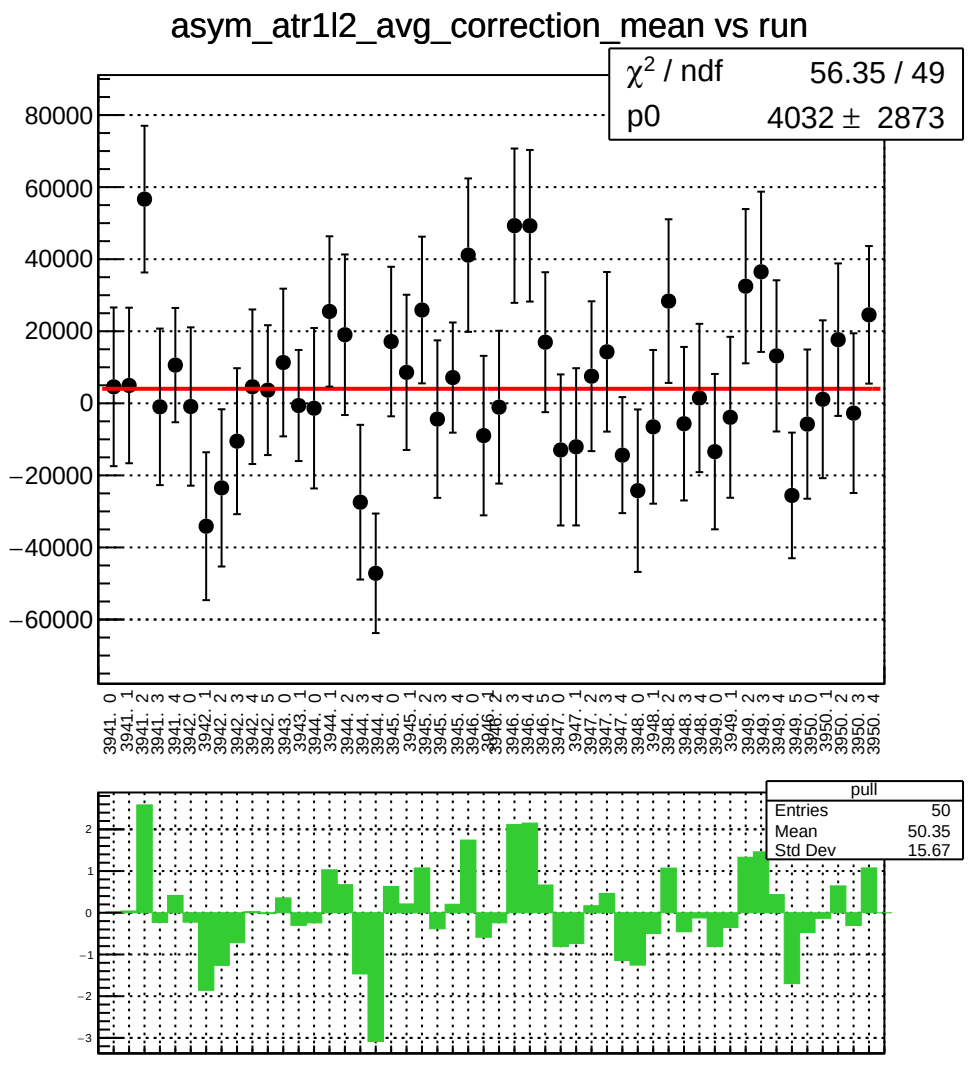
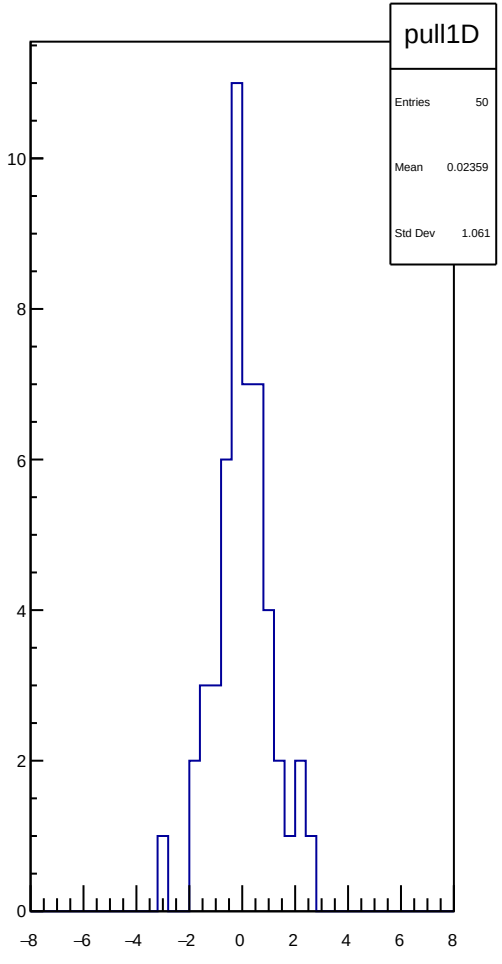
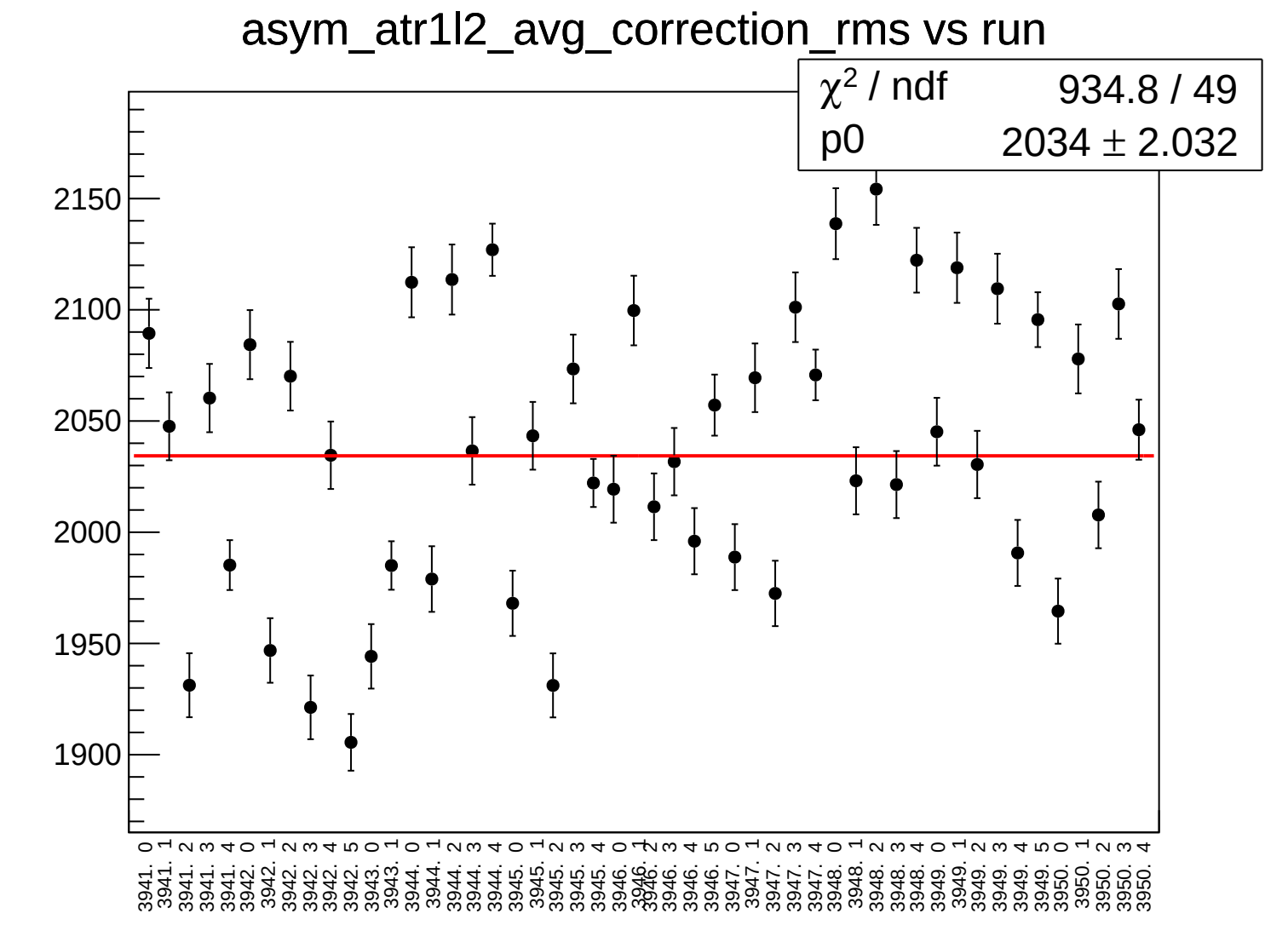
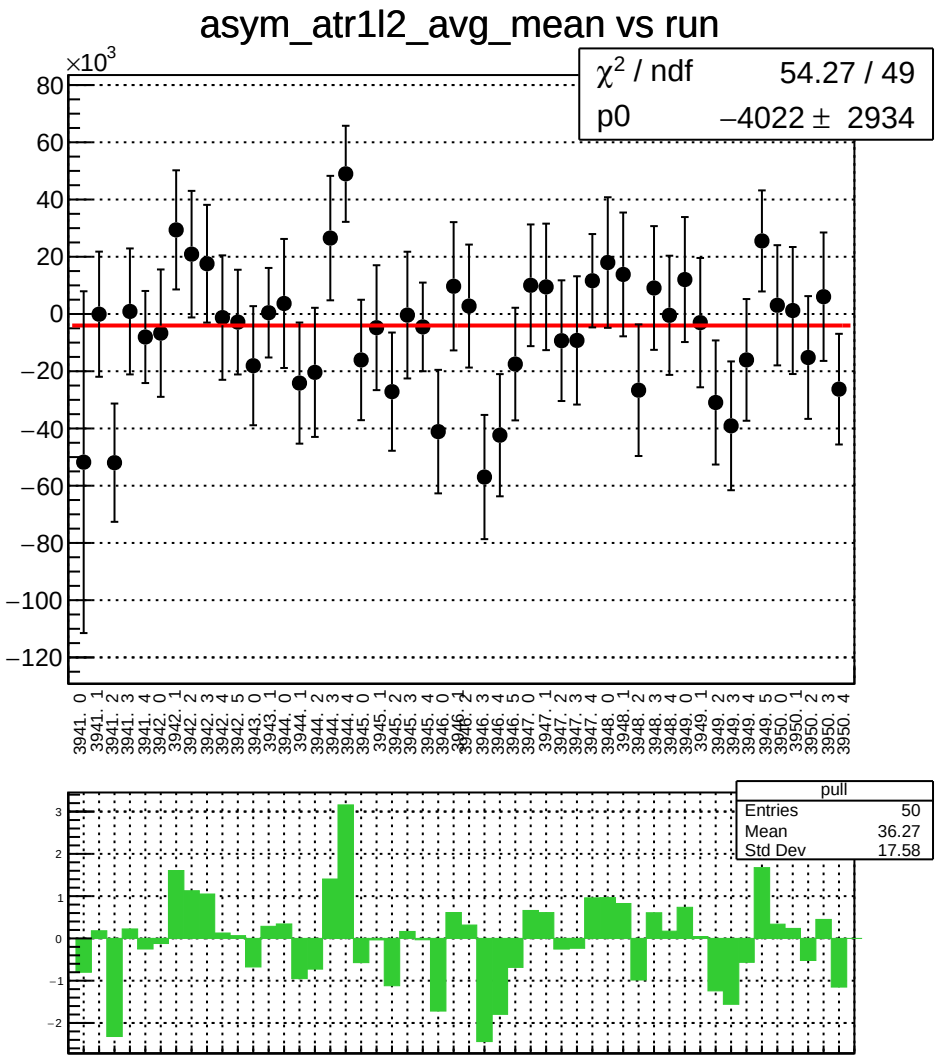
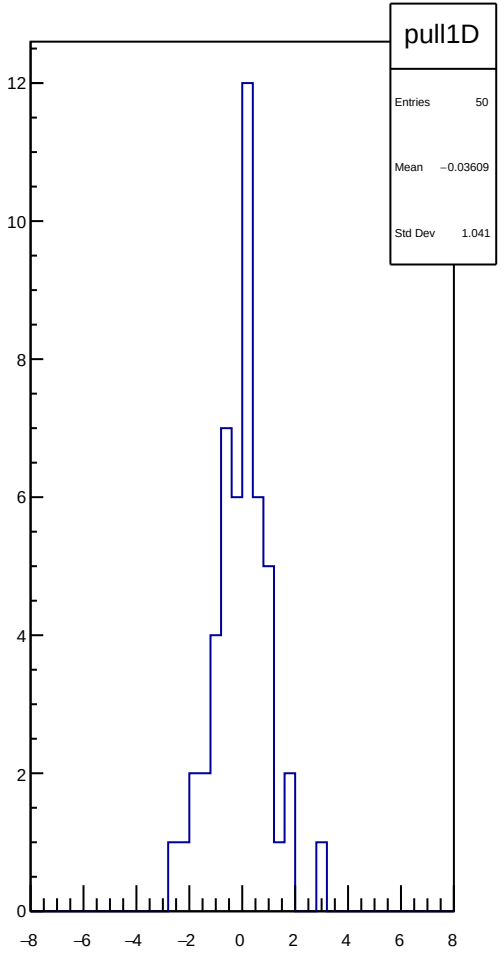
3950. 1
3950. 2
3950. 3
3950. 4

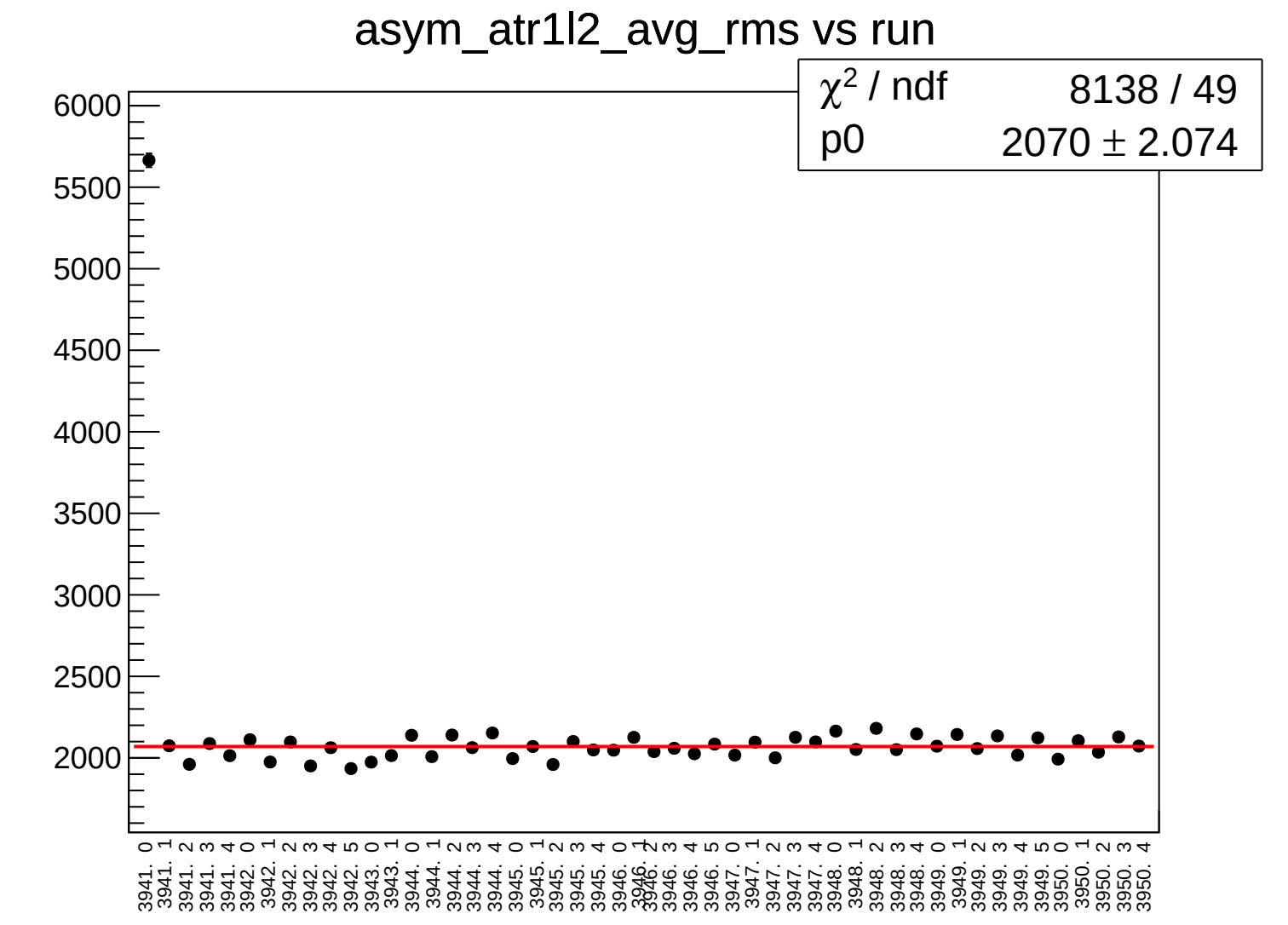

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 56.35 / 49
p0 4032 ± 2873
pull
Entries 50
Mean 50.35
Std Dev 15.67

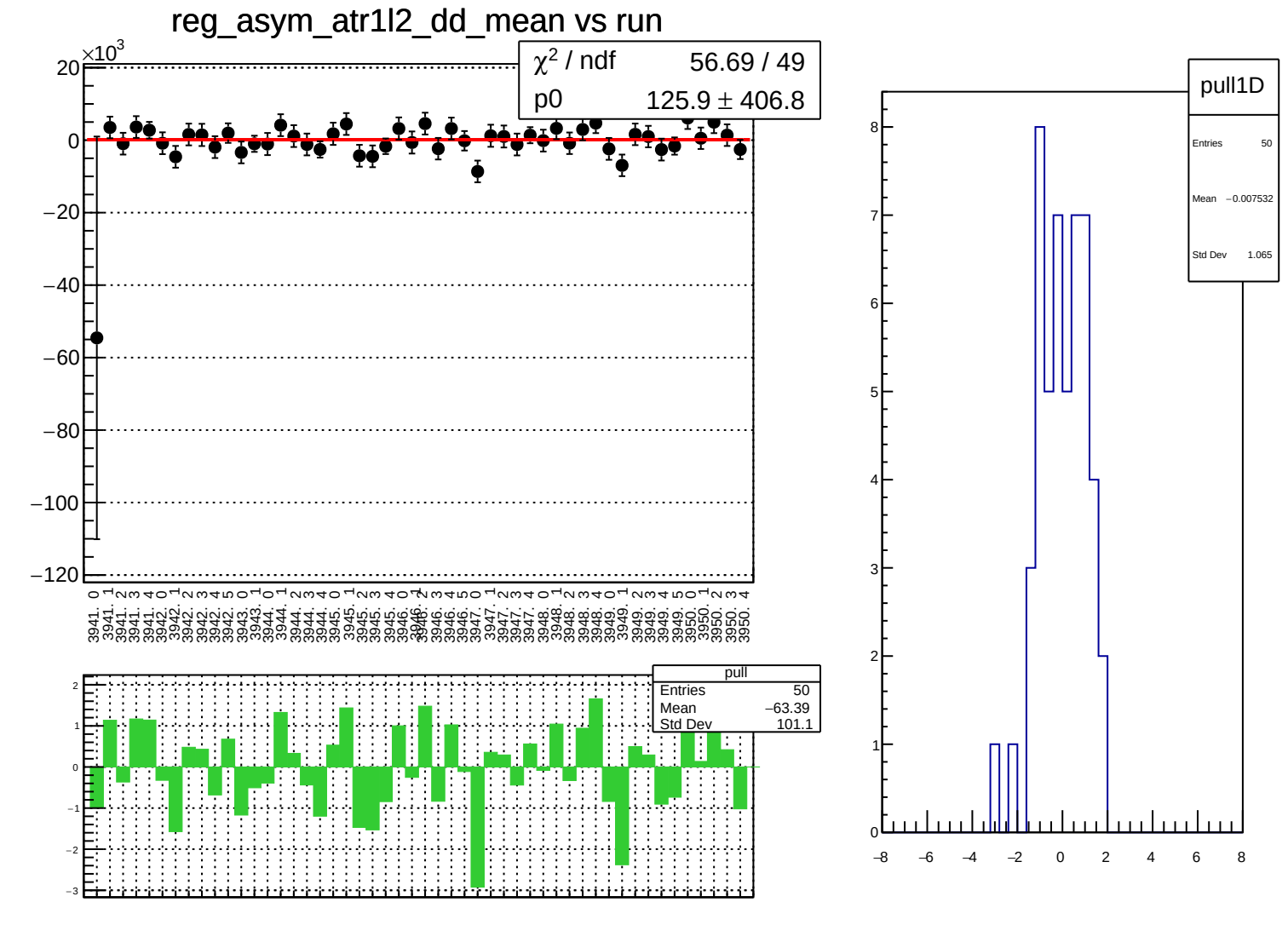

pull1D
Entries 50
Mean 0.02359
Std Dev 1.061

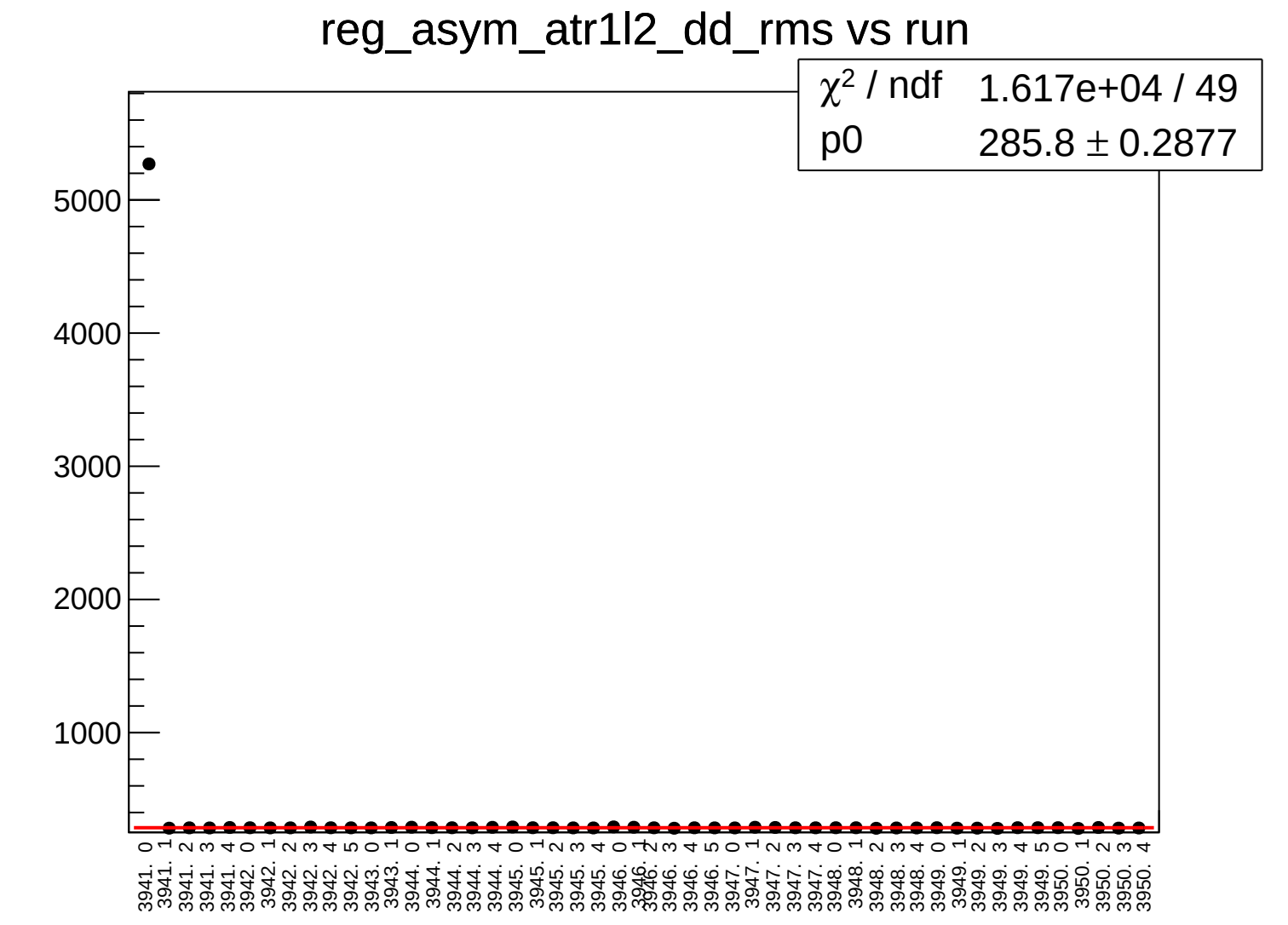

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 934.8 / 49
p0 2034 ± 2.032
2150
2100
2050
2000
1950
1900
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

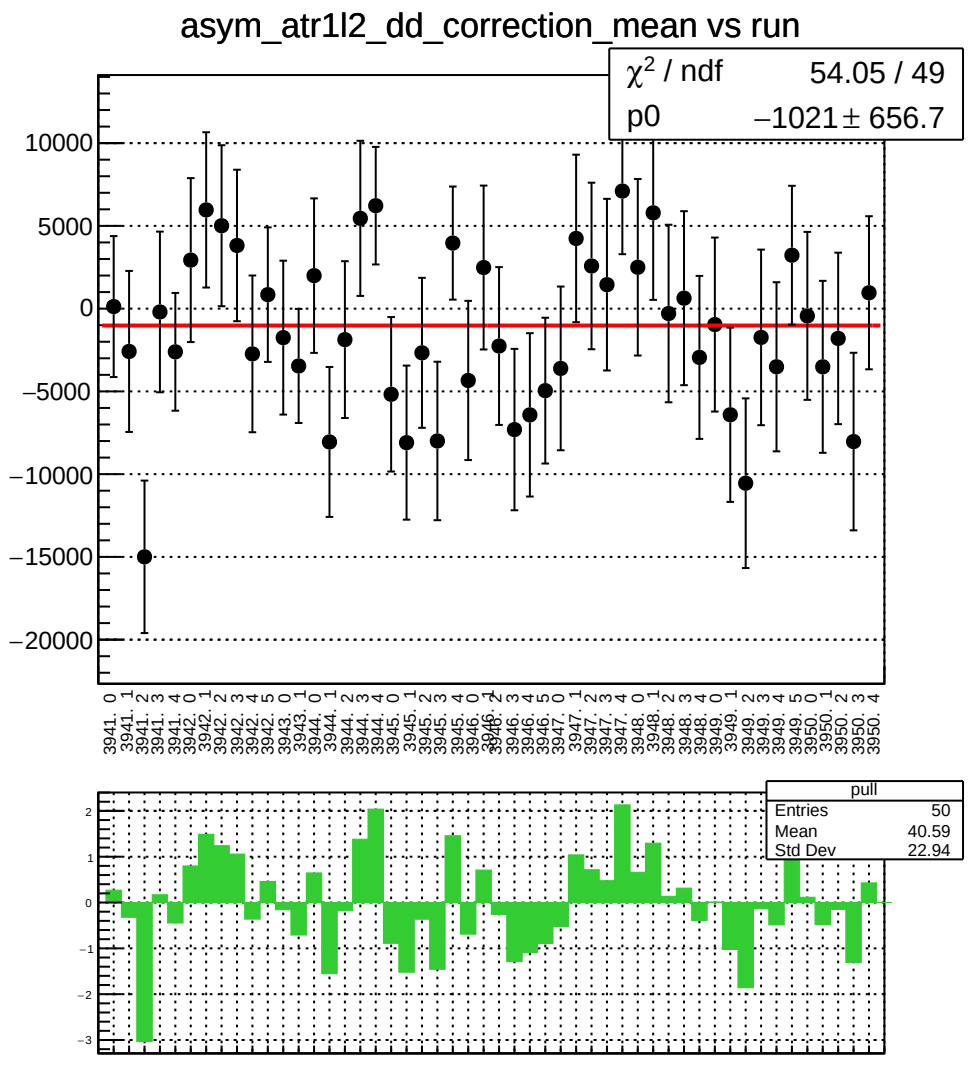

asym_atr1l2_avg_mean vs run
χ² / ndf 54.27 / 49
p0 −4022 ± 2934
×10³
pull
Entries 50
Mean 36.27
Std Dev 17.58

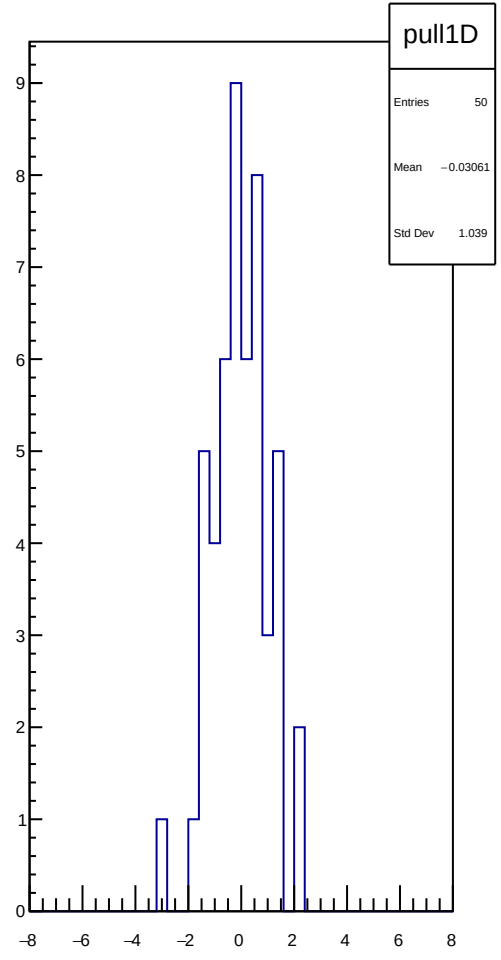

pull1D
Entries 50
Mean −0.03609
Std Dev 1.041

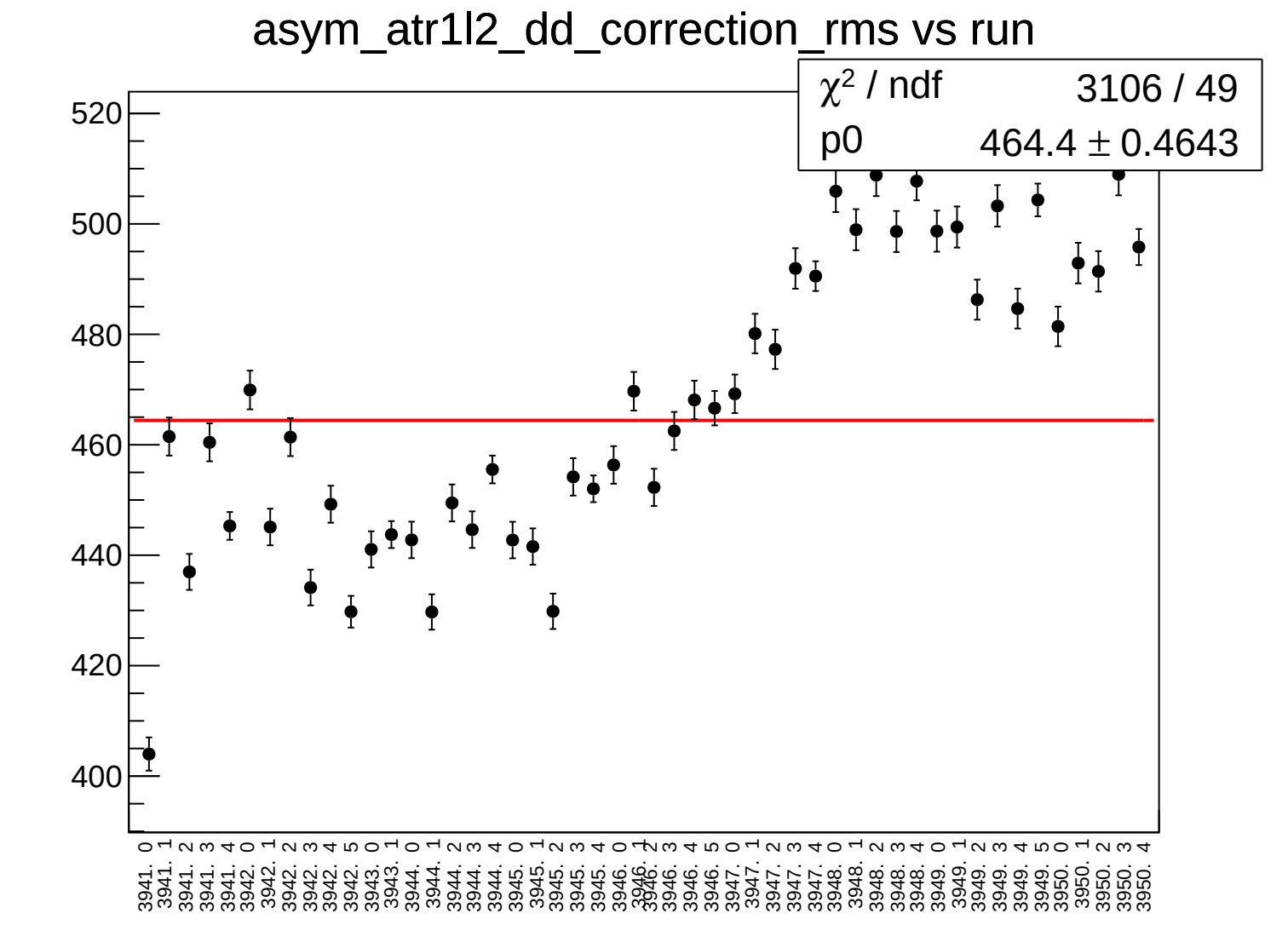

asym_atr1l2_avg_rms vs run
χ² / ndf 8138 / 49
p0 2070 ± 2.074
6000
5500
5000
4500
4000
3500
3000
2500
2000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

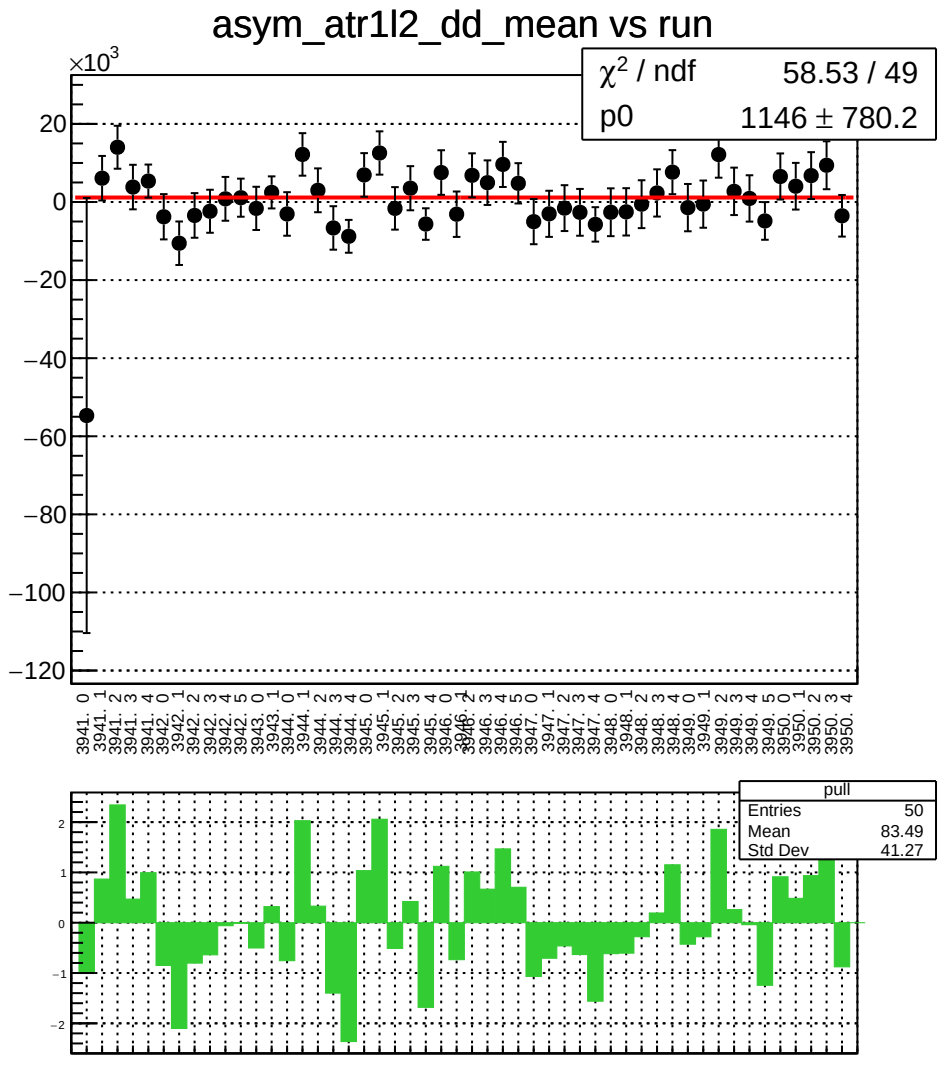

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 56.69 / 49
p0 125.9 ± 406.8
×10³
pull
Entries 50
Mean −63.39
Std Dev 101.1
pull1D
Entries 50
Mean −0.007532
Std Dev 1.065

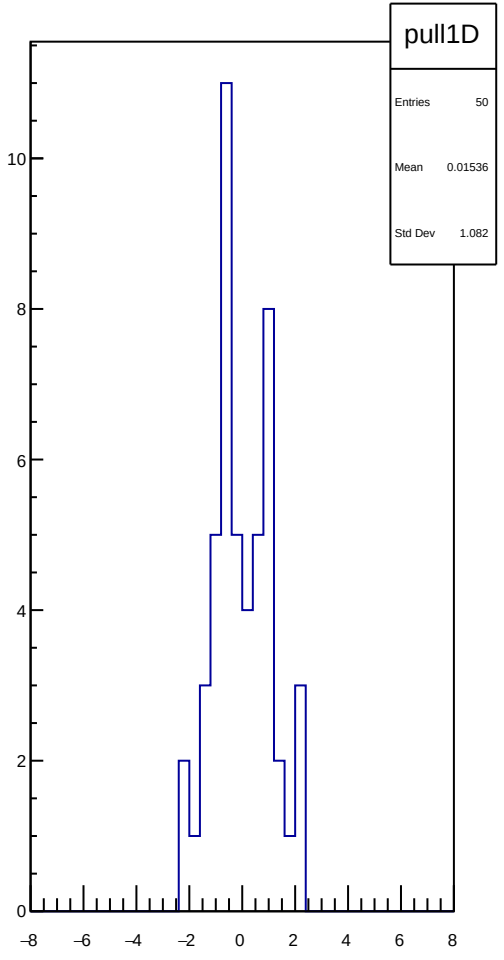

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.617e+04 / 49
p0 285.8 ± 0.2877
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4

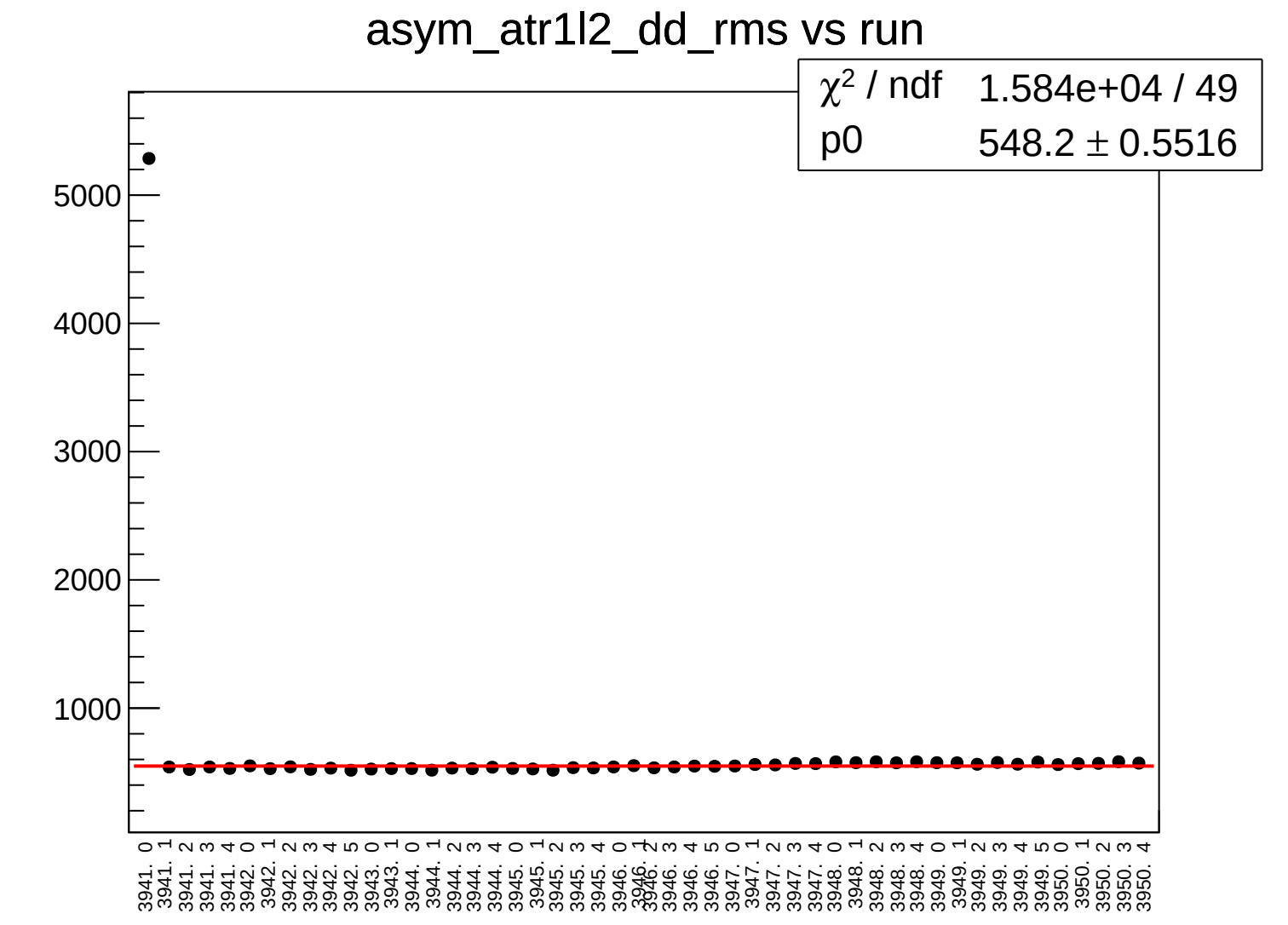

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 54.05 / 49
p0 −1021 ± 656.7
pull
Entries 50
Mean 40.59
Std Dev 22.94


pull1D
Entries 50
Mean −0.03061
Std Dev 1.039


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 3106 / 49
p0 464.4 ± 0.4643
520
500
480
460
440
420
400
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
3945. 0
3945. 1
3945. 2
3945. 3
3945. 4
3946. 0
3946. 1
3946. 2
3946. 3
3946. 4
3946. 5
3947. 0
3947. 1
3947. 2
3947. 3
3947. 4
3948. 0
3948. 1
3948. 2
3948. 3
3948. 4
3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4


asym_atr1l2_dd_mean vs run
χ² / ndf 58.53 / 49
p0 1146 ± 780.2
×10³
pull
Entries 50
Mean 83.49
Std Dev 41.27


pull1D
Entries 50
Mean 0.01536
Std Dev 1.082


asym_atr1l2_dd_rms vs run
χ² / ndf 1.584e+04 / 49
p0 548.2 ± 0.5516
5000
4000
3000
2000
1000
3941. 0
3941. 1
3941. 2
3941. 3
3941. 4
3942. 0
3942. 1
3942. 2
3942. 3
3942. 4
3942. 5
3943. 0
3943. 1
3944. 0
3944. 1
3944. 2
3944. 3
3944. 4
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3949. 0
3949. 1
3949. 2
3949. 3
3949. 4
3949. 5
3950. 0
3950. 1
3950. 2
3950. 3
3950. 4