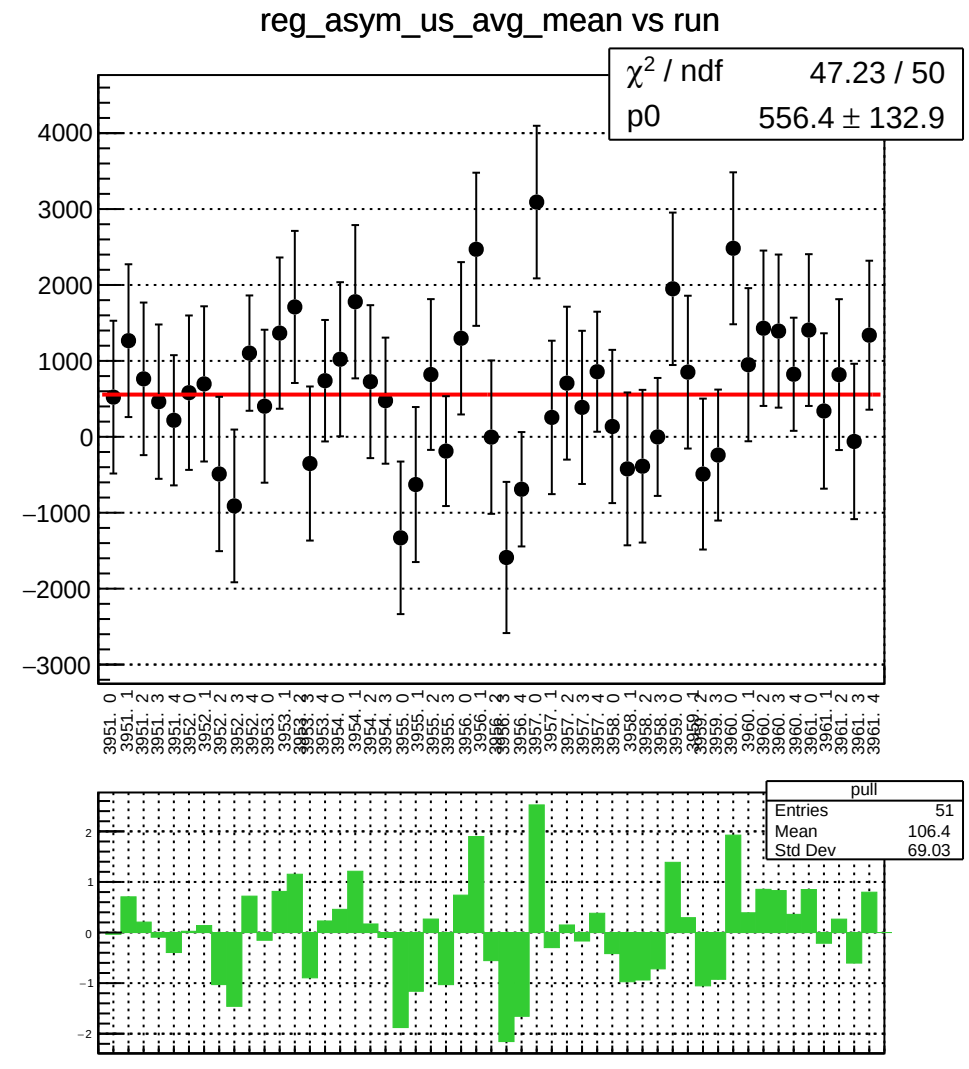
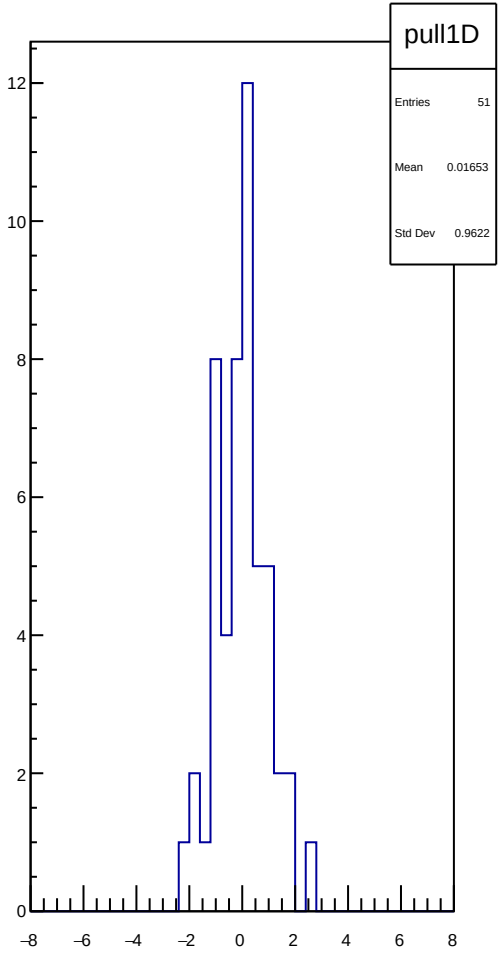
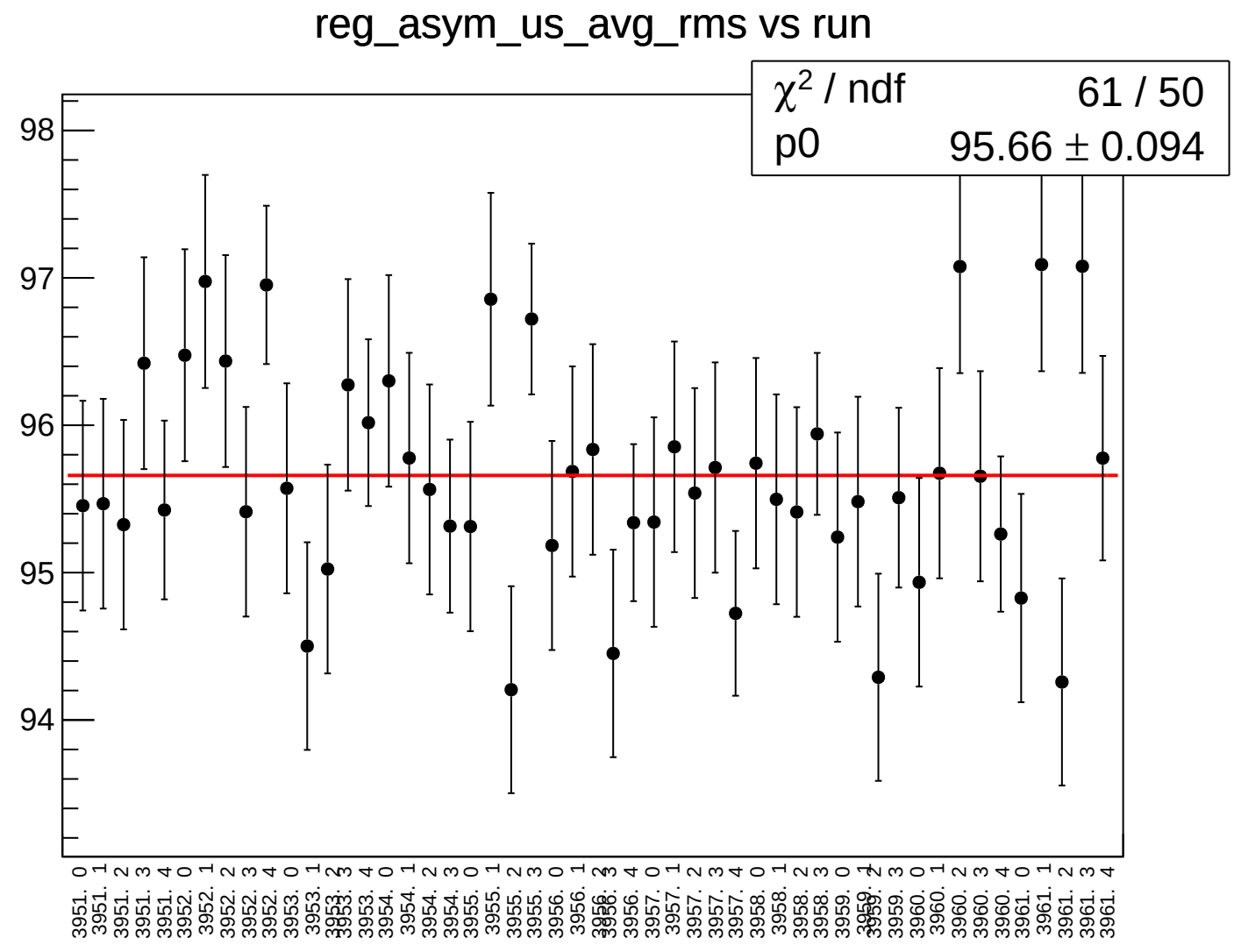
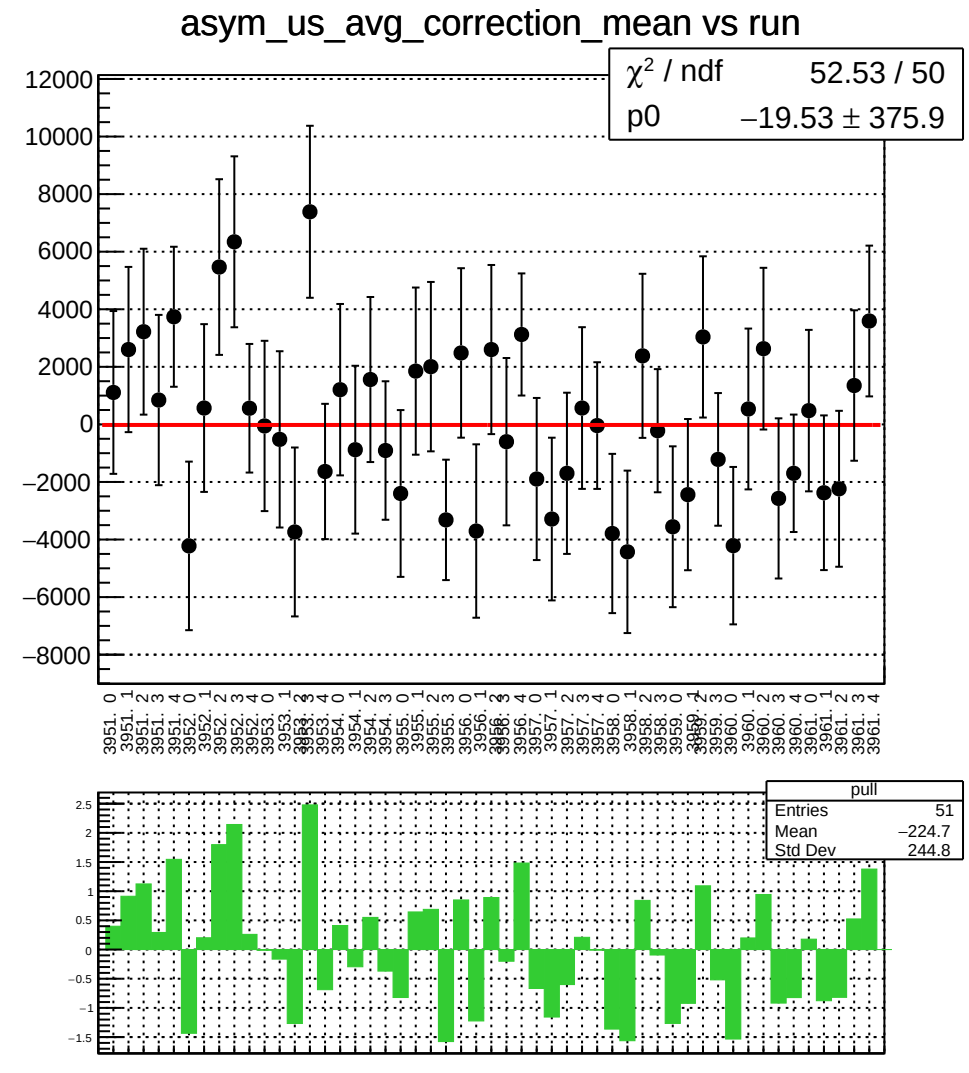
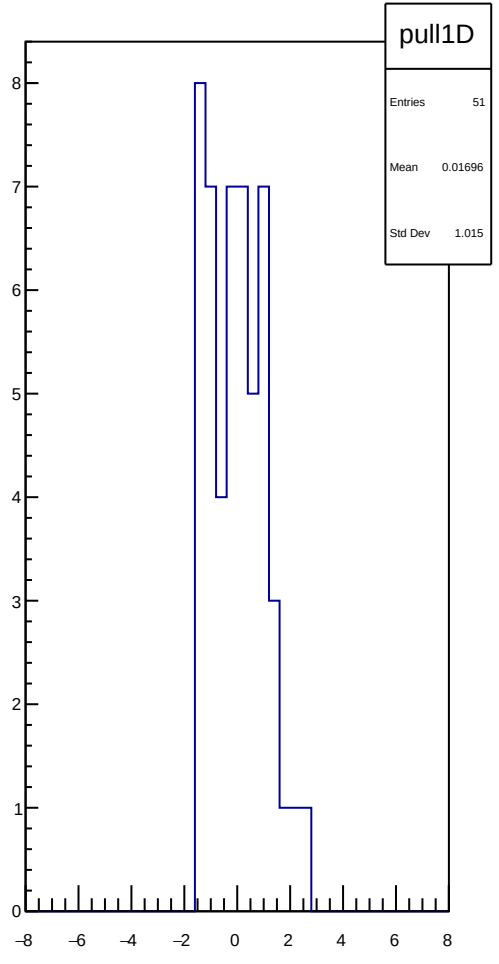
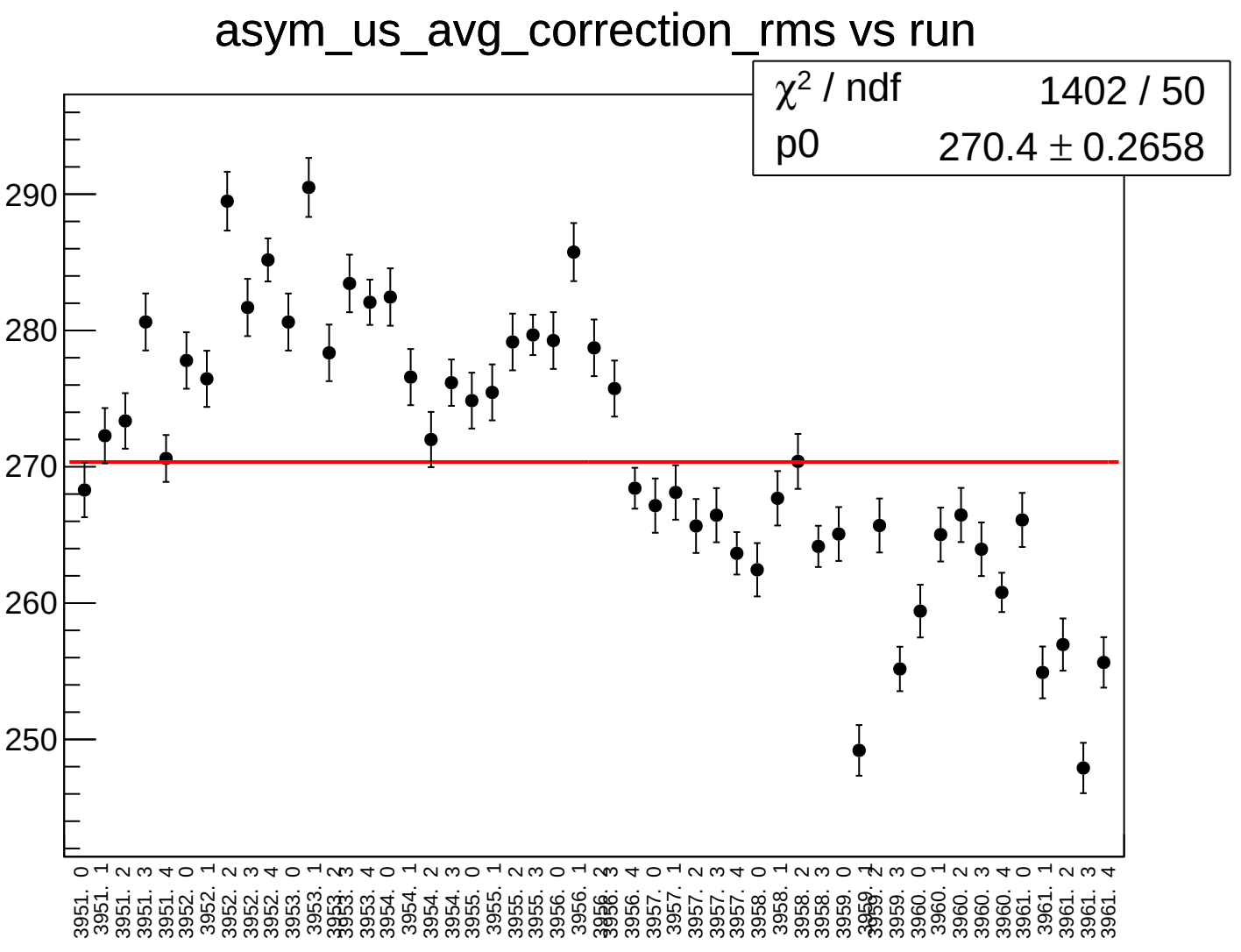

reg_asym_us_avg_mean vs run
χ² / ndf 47.23 / 50
p0 556.4 ± 132.9
pull
Entries 51
Mean 106.4
Std Dev 69.03

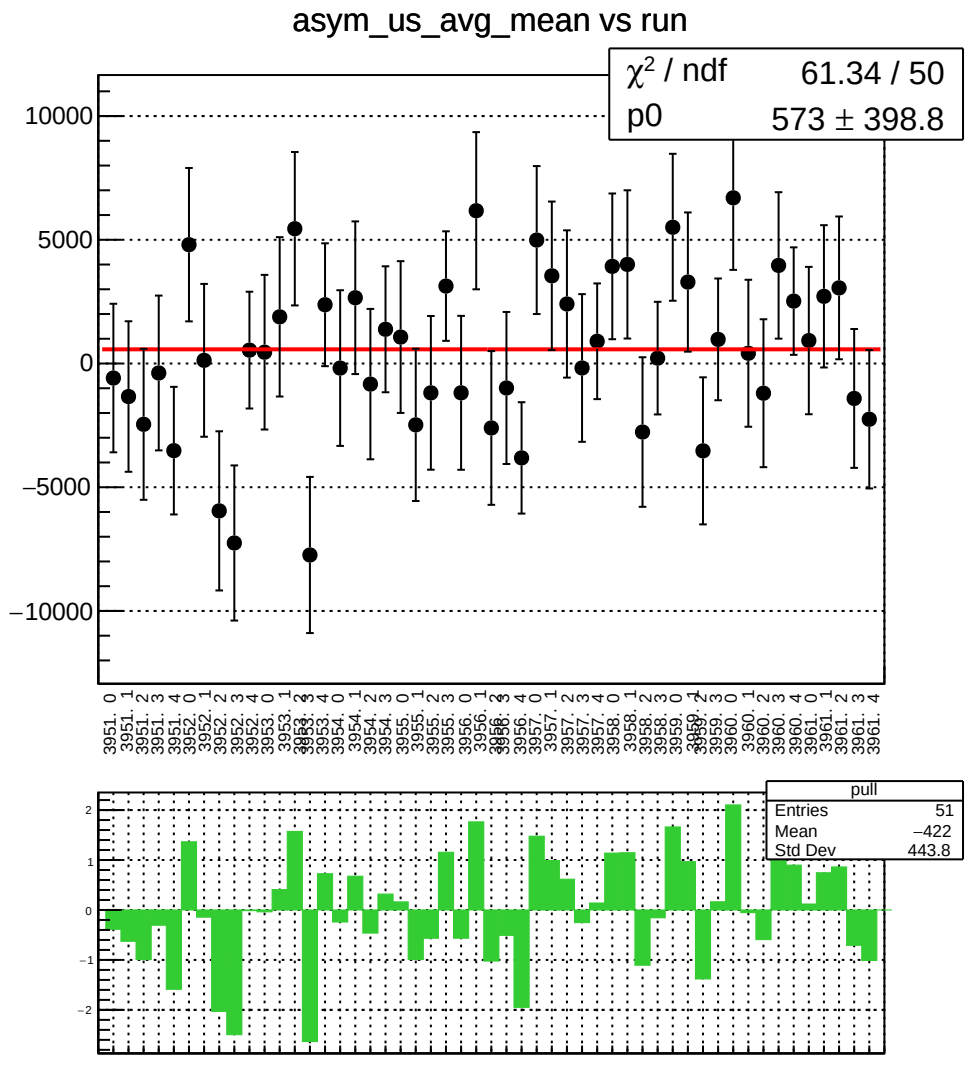

pull1D
Entries 51
Mean 0.01653
Std Dev 0.9622

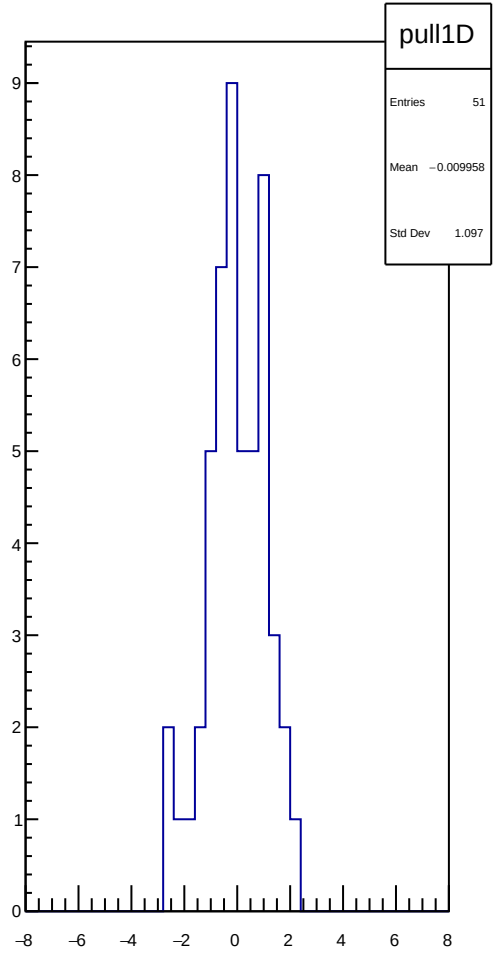

reg_asym_us_avg_rms vs run
χ² / ndf 61 / 50
p0 95.66 ± 0.094
98
97
96
95
94
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

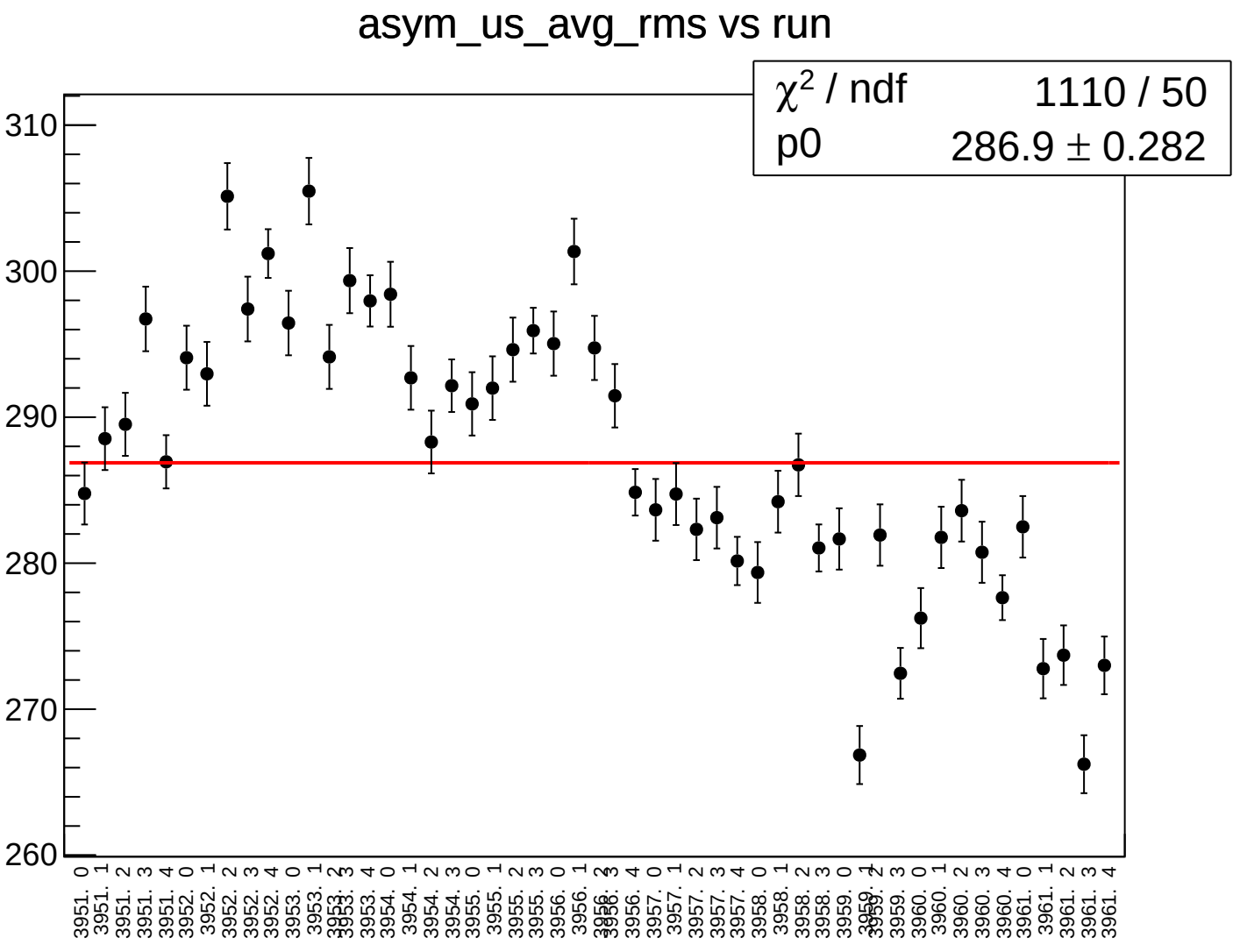

asym_us_avg_correction_mean vs run
χ² / ndf 52.53 / 50
p0 −19.53 ± 375.9
pull
Entries 51
Mean −224.7
Std Dev 244.8

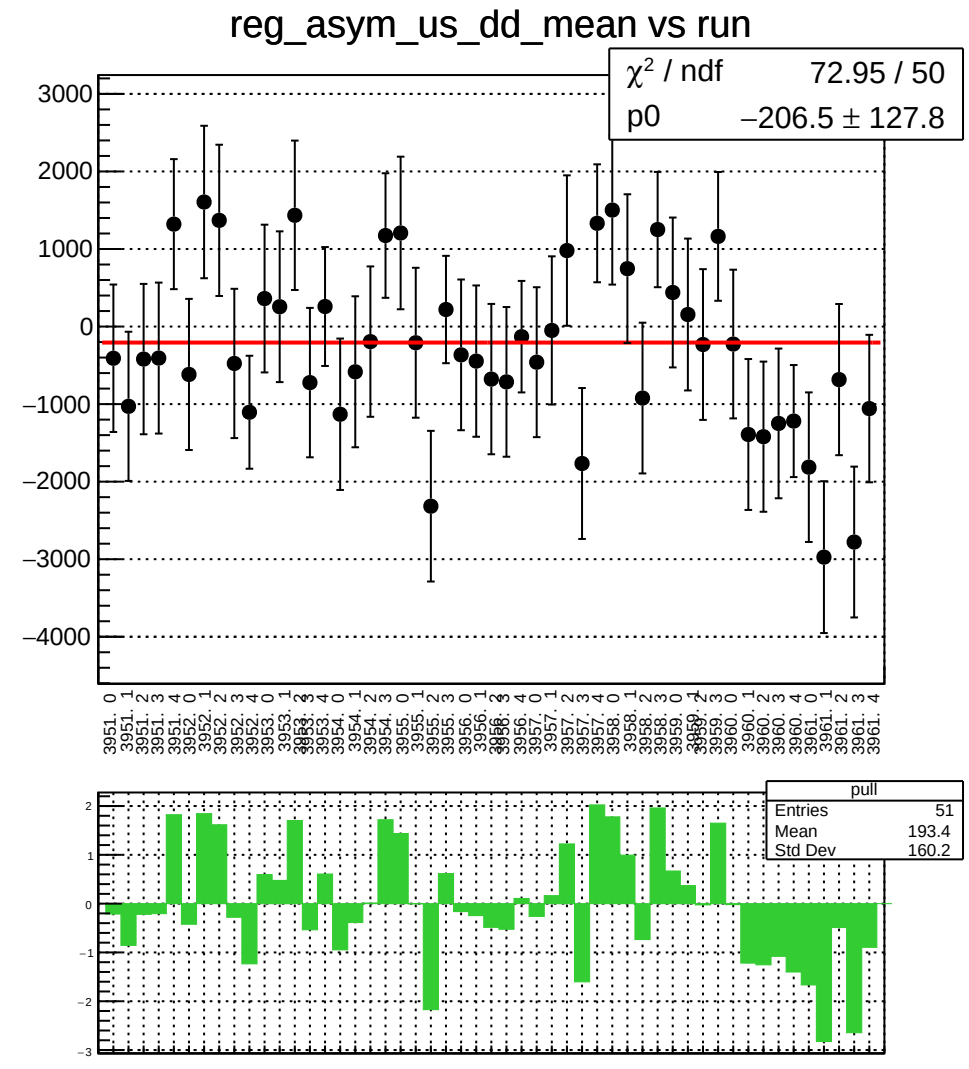

pull1D
Entries 51
Mean 0.01696
Std Dev 1.015

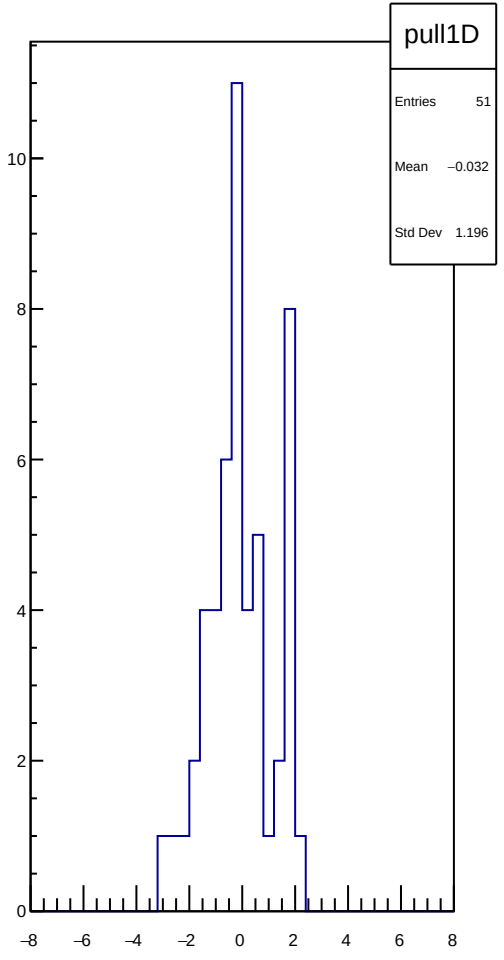

asym_us_avg_correction_rms vs run
χ² / ndf 1402 / 50
p0 270.4 ± 0.2658
290
280
270
260
250
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

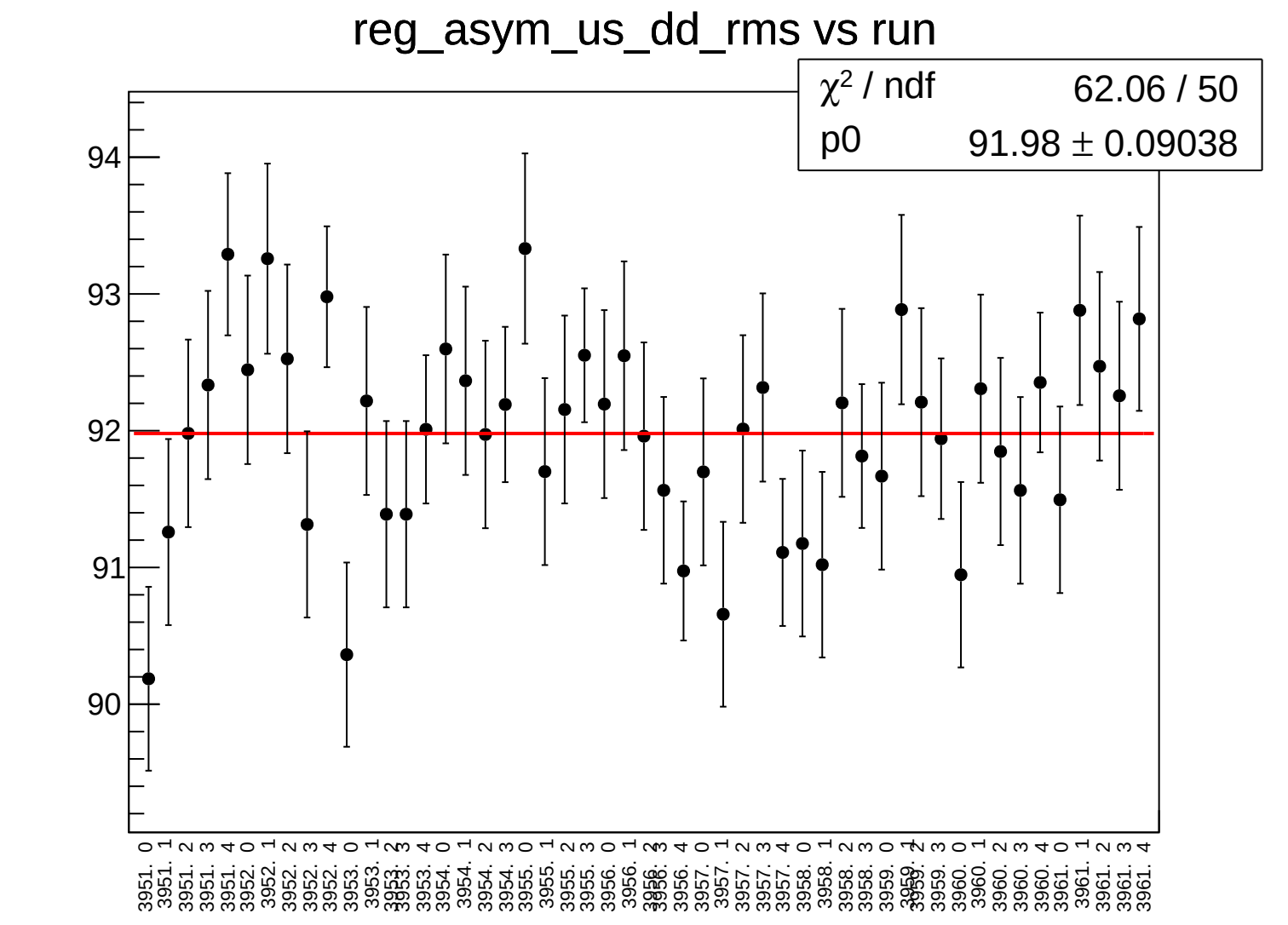

asym_us_avg_mean vs run
χ² / ndf 61.34 / 50
p0 573 ± 398.8
10000
5000
0
−5000
−10000
pull
Entries 51
Mean −422
Std Dev 443.8
2
1
0
−1
−2

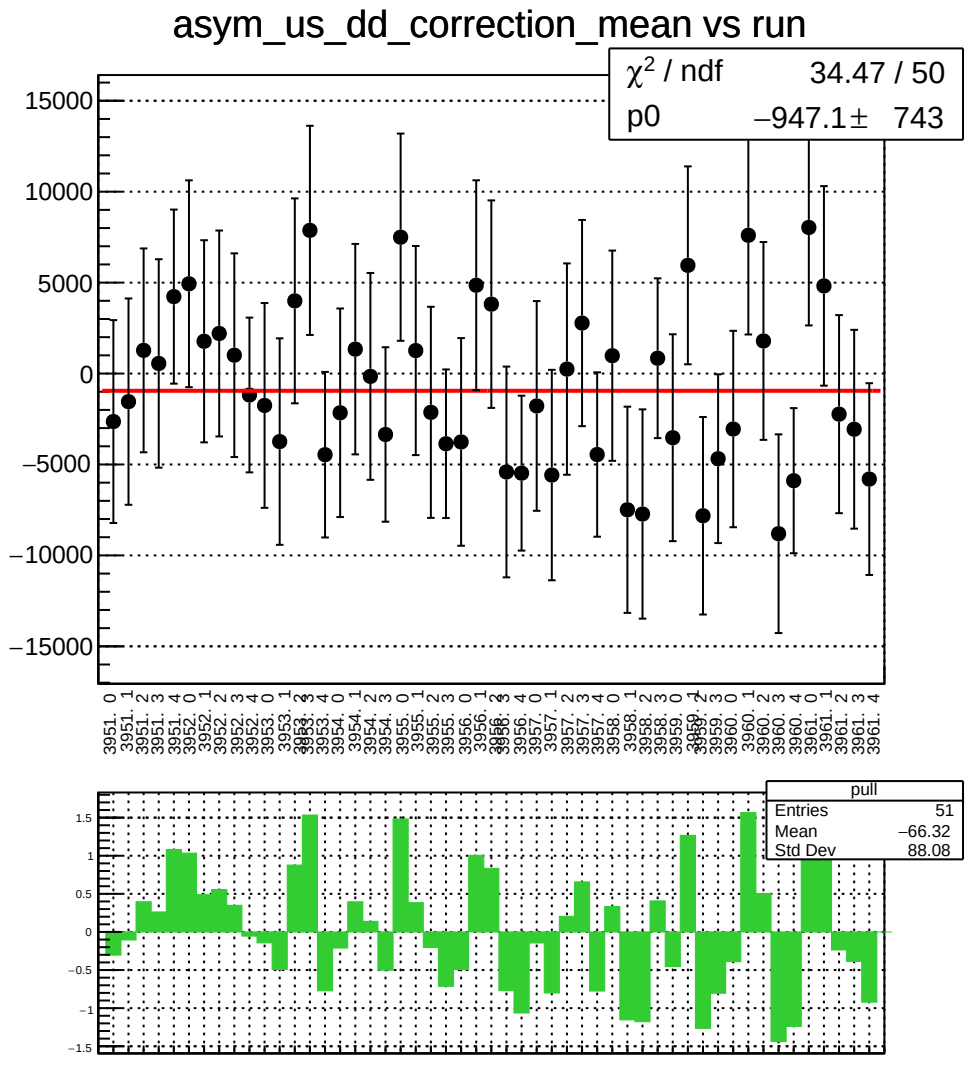

pull1D
Entries 51
Mean −0.009958
Std Dev 1.097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

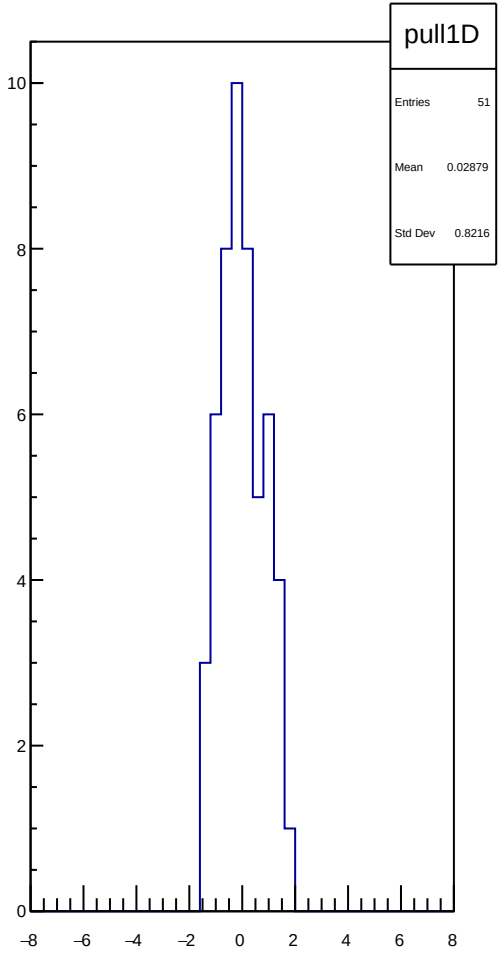

asym_us_avg_rms vs run
χ^2 / ndf 1110 / 50
p0 286.9 ± 0.282
310
300
290
280
270
260
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

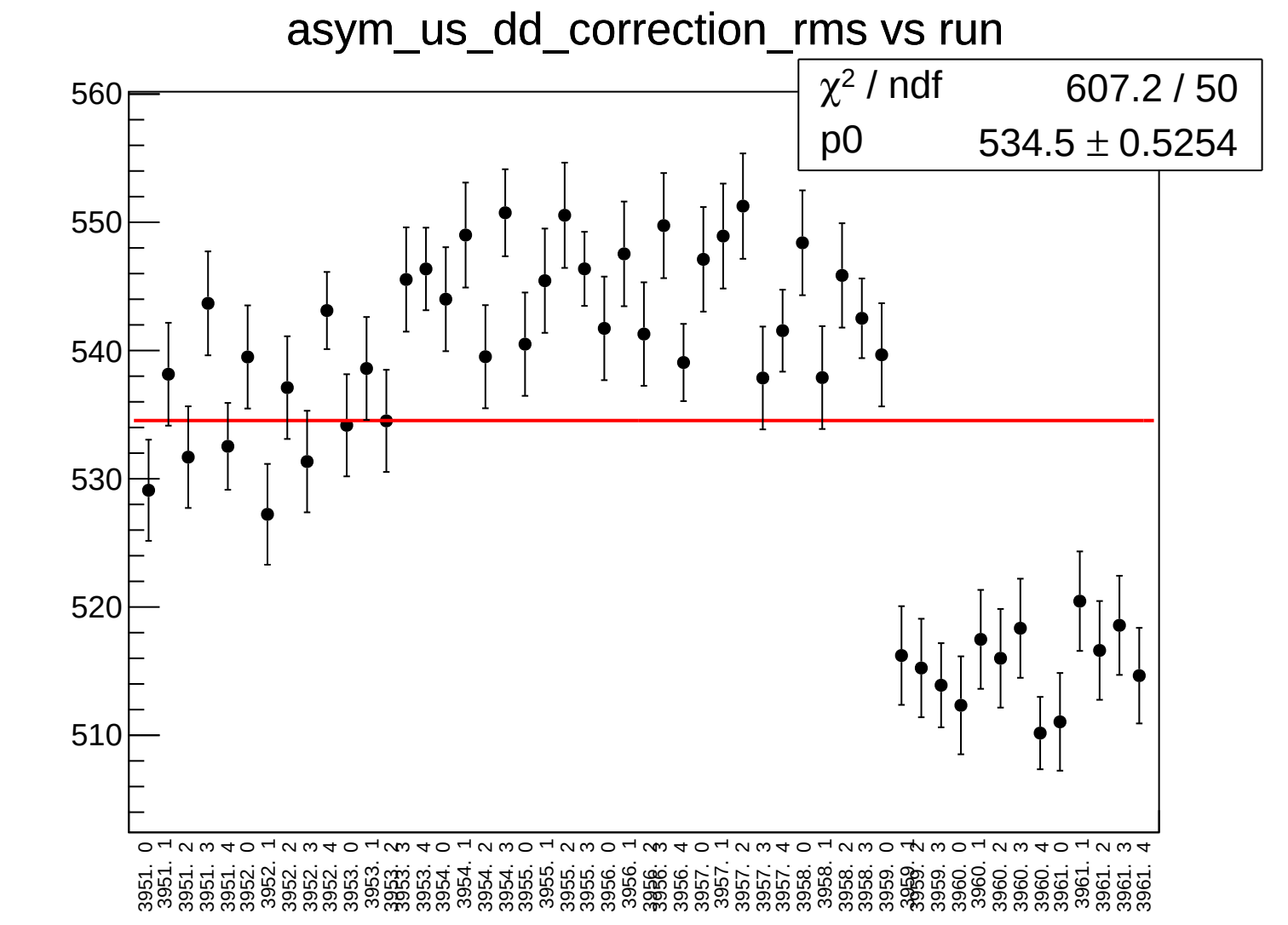

reg_asym_us_dd_mean vs run
χ² / ndf 72.95 / 50
p0 −206.5 ± 127.8
pull
Entries 51
Mean 193.4
Std Dev 160.2

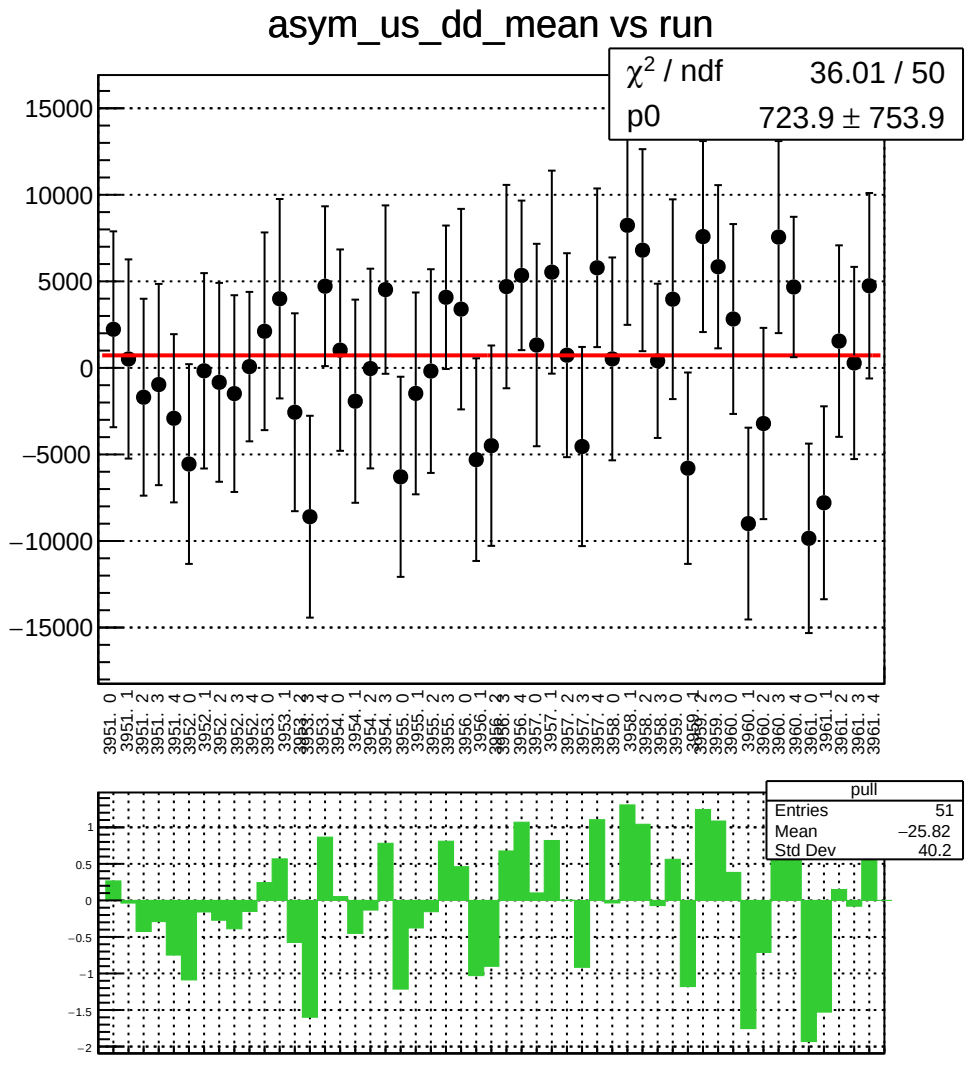

pull1D
Entries 51
Mean −0.032
Std Dev 1.196

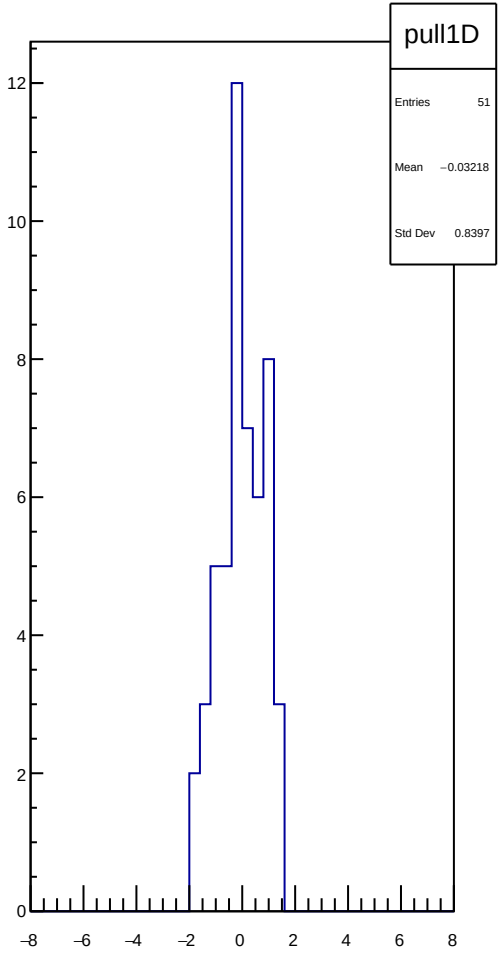

reg_asym_us_dd_rms vs run
χ² / ndf 62.06 / 50
p0 91.98 ± 0.09038
94
93
92
91
90
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

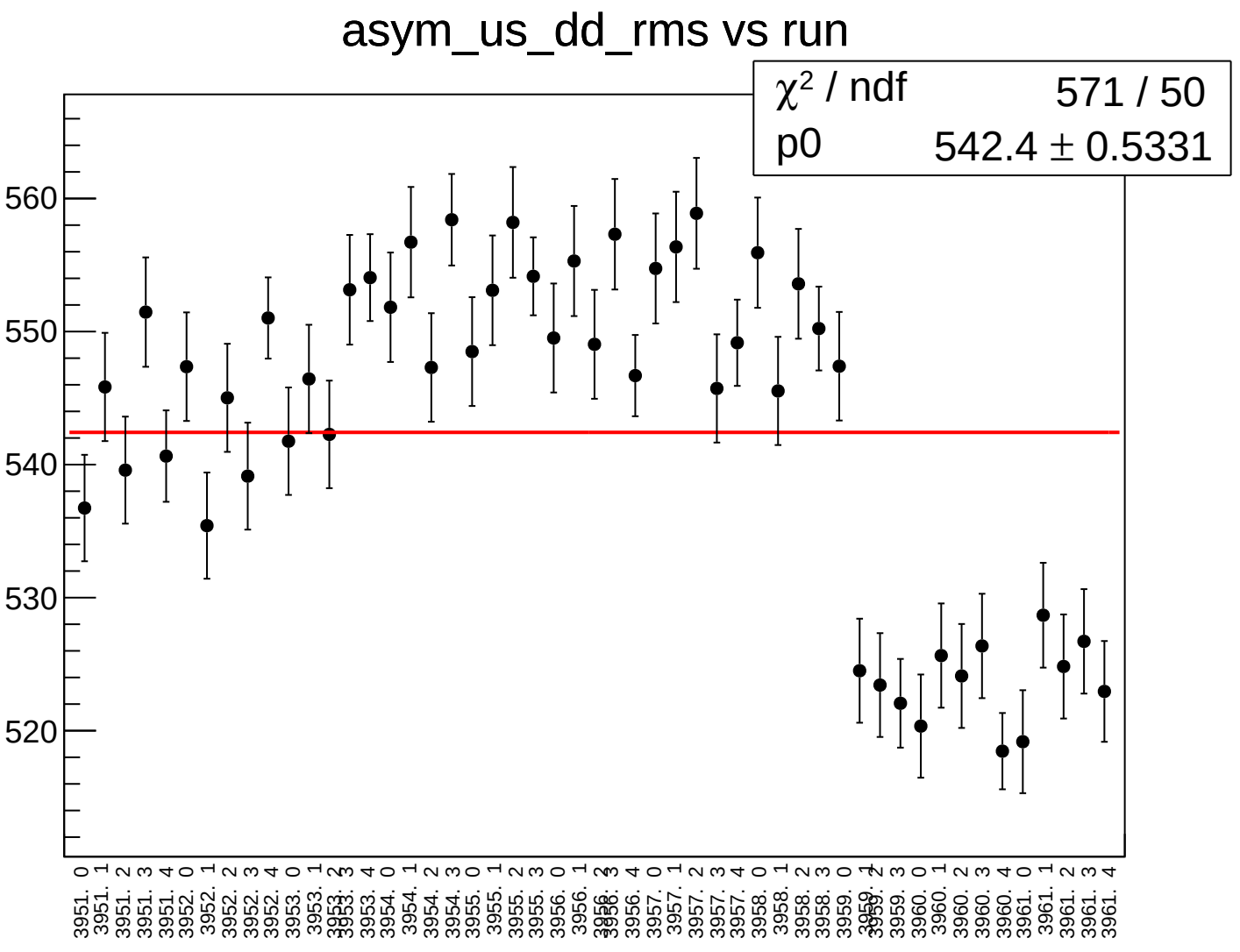

asym_us_dd_correction_mean vs run
χ² / ndf 34.47 / 50
p0 −947.1± 743
pull
Entries 51
Mean −66.32
Std Dev 88.08

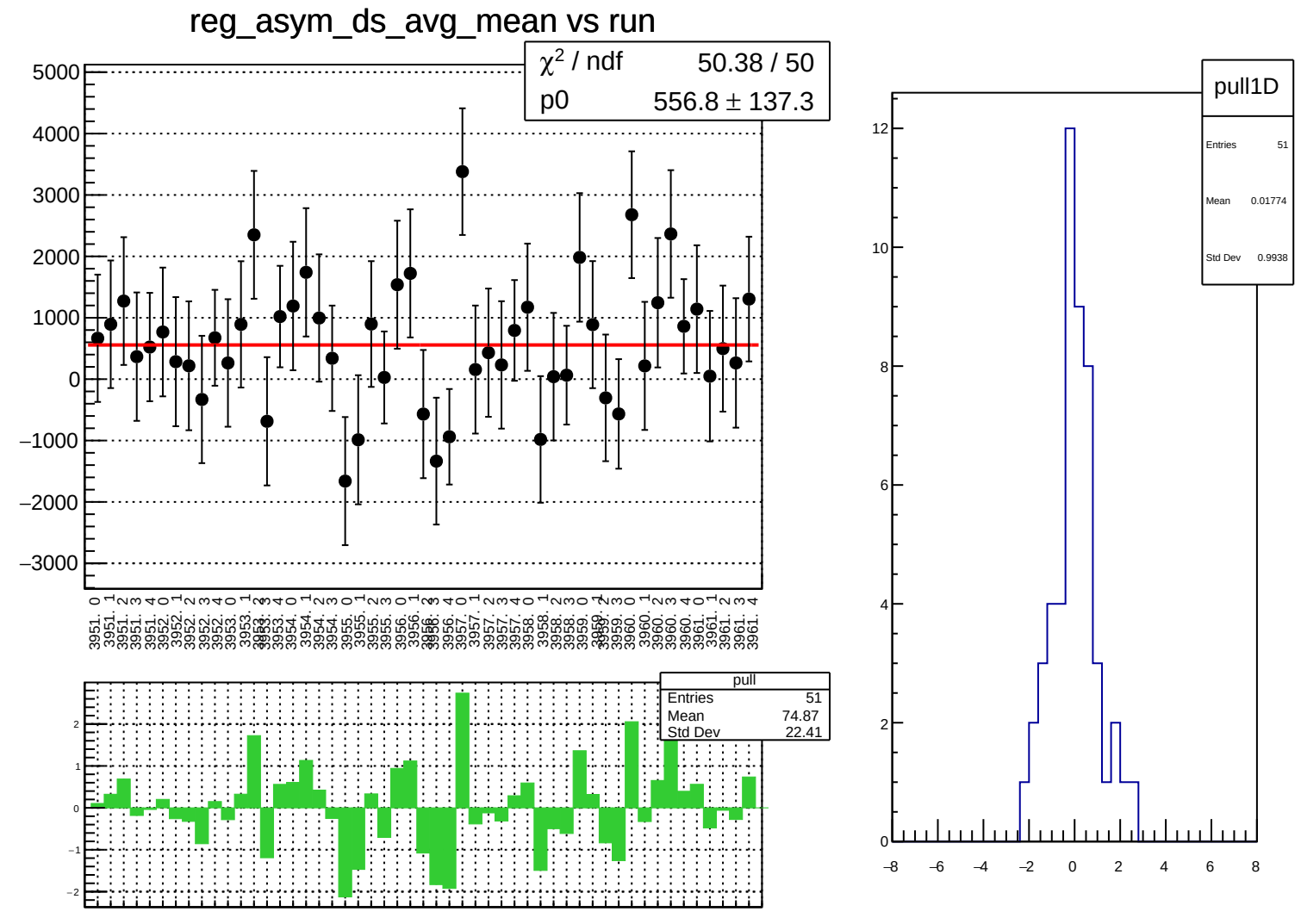

pull1D
Entries 51
Mean 0.02879
Std Dev 0.8216

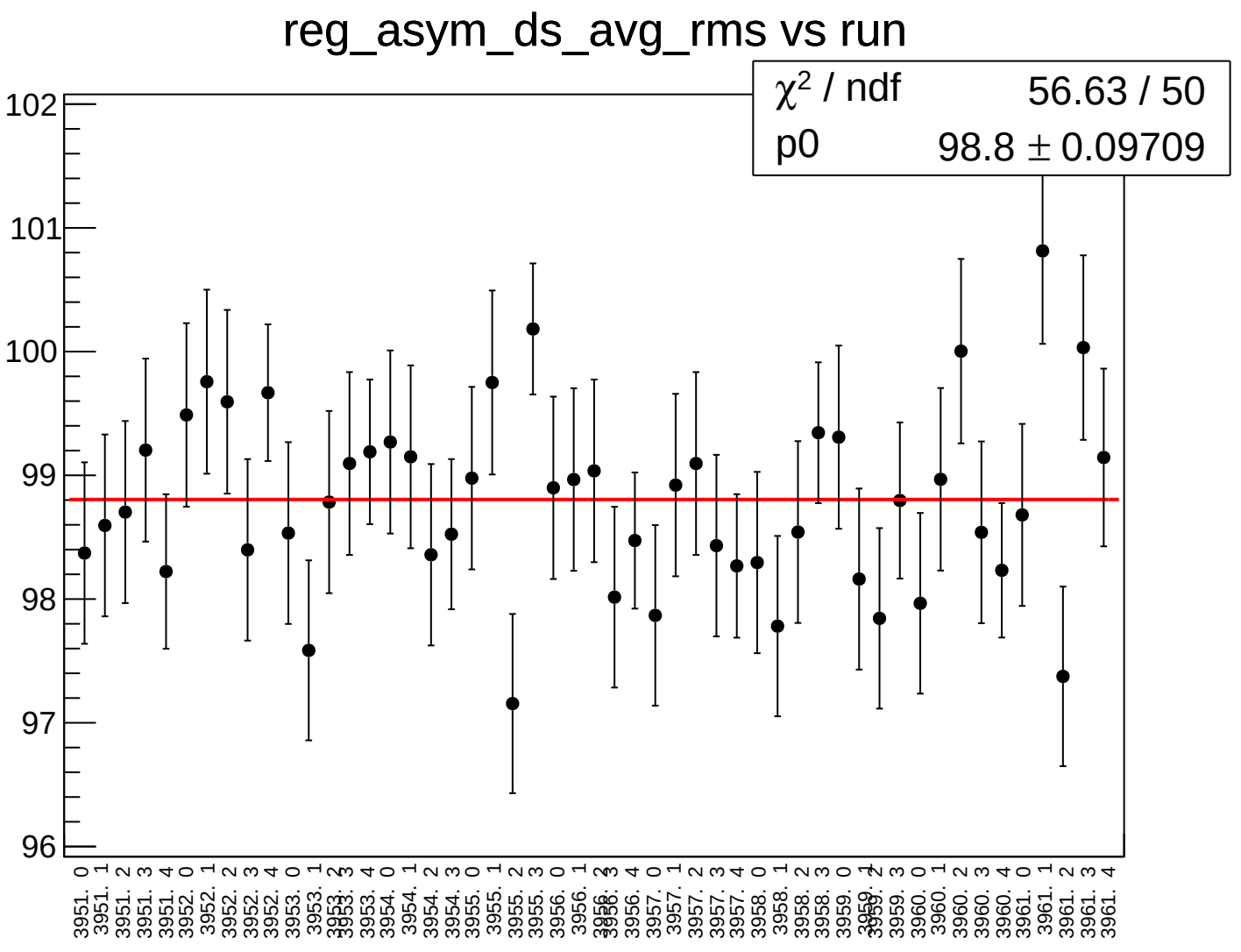

asym_us_dd_correction_rms vs run
χ² / ndf 607.2 / 50
p0 534.5 ± 0.5254
560
550
540
530
520
510
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

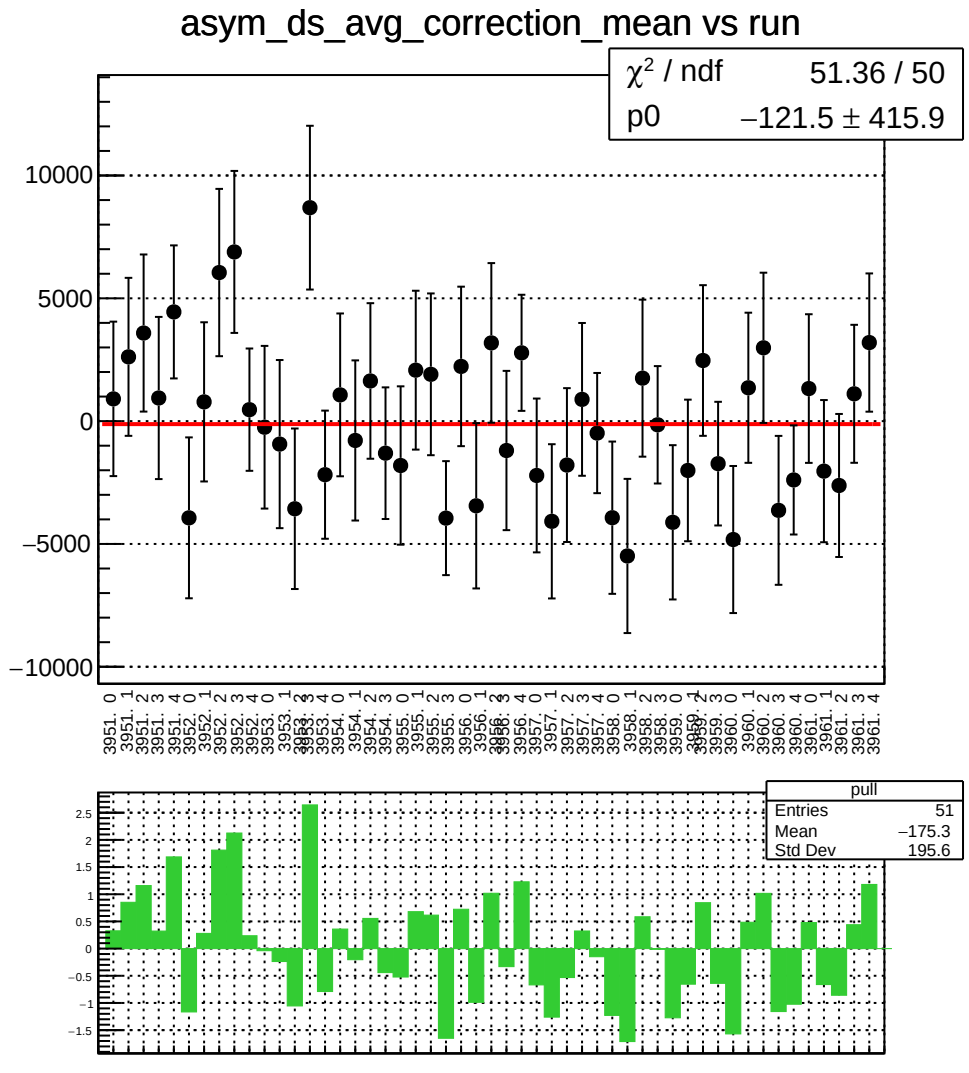

asym_us_dd_mean vs run
χ² / ndf 36.01 / 50
p0 723.9 ± 753.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean −25.82
Std Dev 40.2
1
0.5
0
−0.5
−1
−1.5
−2

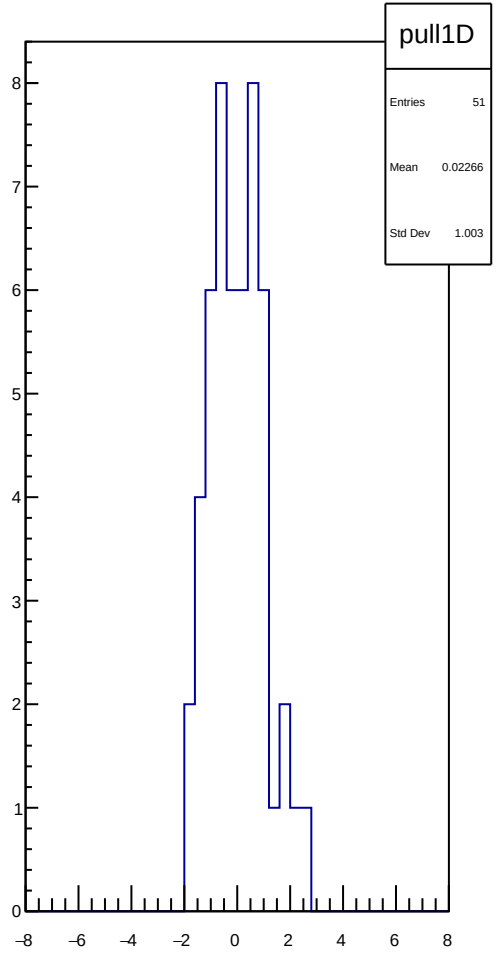

pull1D
Entries 51
Mean −0.03218
Std Dev 0.8397
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

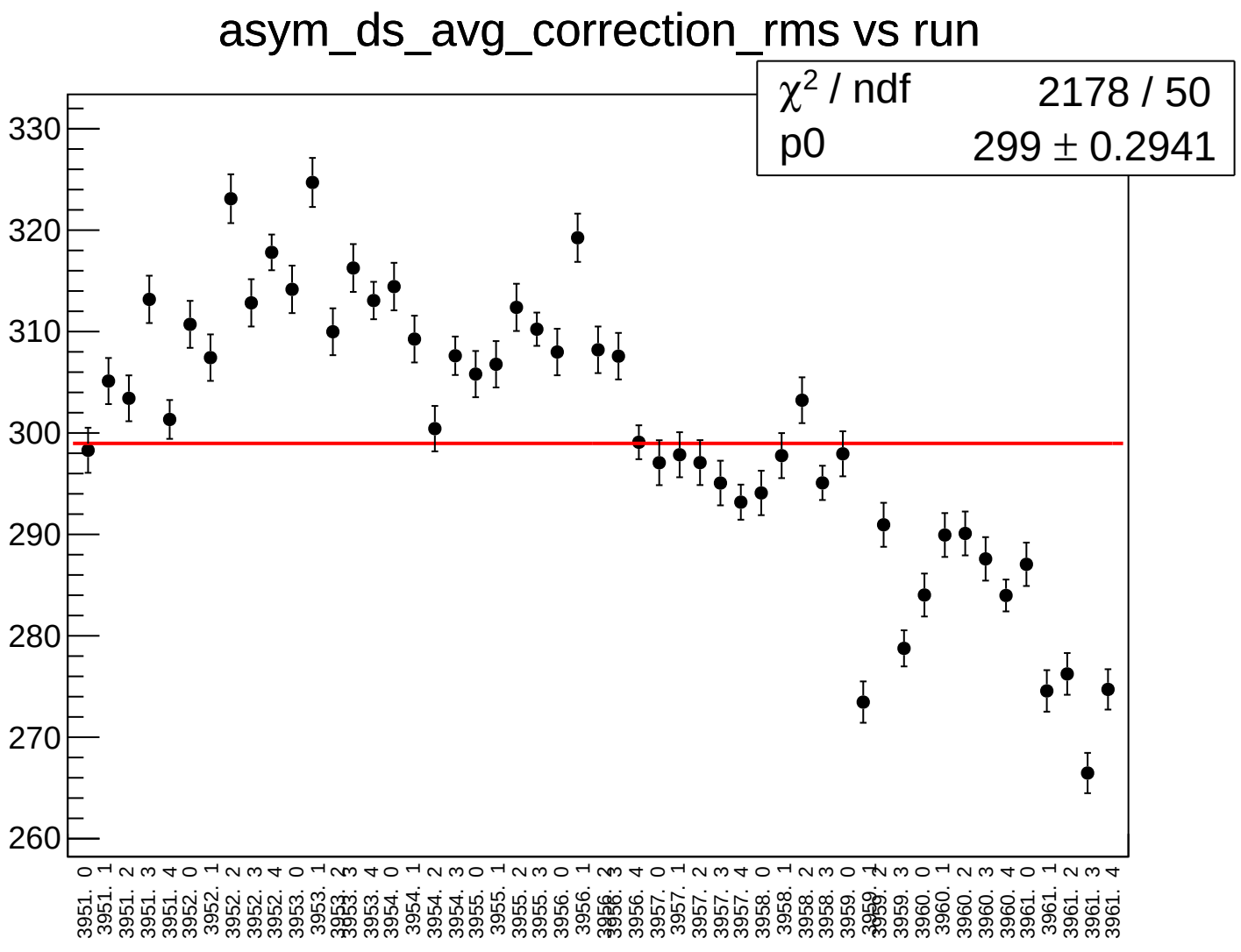

asym_us_dd_rms vs run
χ² / ndf 571 / 50
p0 542.4 ± 0.5331
560
550
540
530
520
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_ds_avg_mean vs run
χ^2 / ndf 50.38 / 50
p0 556.8 ± 137.3
pull
Entries 51
Mean 74.87
Std Dev 22.41
pull1D
Entries 51
Mean 0.01774
Std Dev 0.9938


reg_asym_ds_avg_rms vs run
χ² / ndf 56.63 / 50
p0 98.8 ± 0.09709
102
101
100
99
98
97
96
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_ds_avg_correction_mean vs run
χ² / ndf 51.36 / 50
p0 −121.5 ± 415.9
10000
5000
0
−5000
−10000
pull
Entries 51
Mean −175.3
Std Dev 195.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.02266
Std Dev 1.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_avg_correction_rms vs run
χ² / ndf 2178 / 50
p0 299 ± 0.2941
330
320
310
300
290
280
270
260
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
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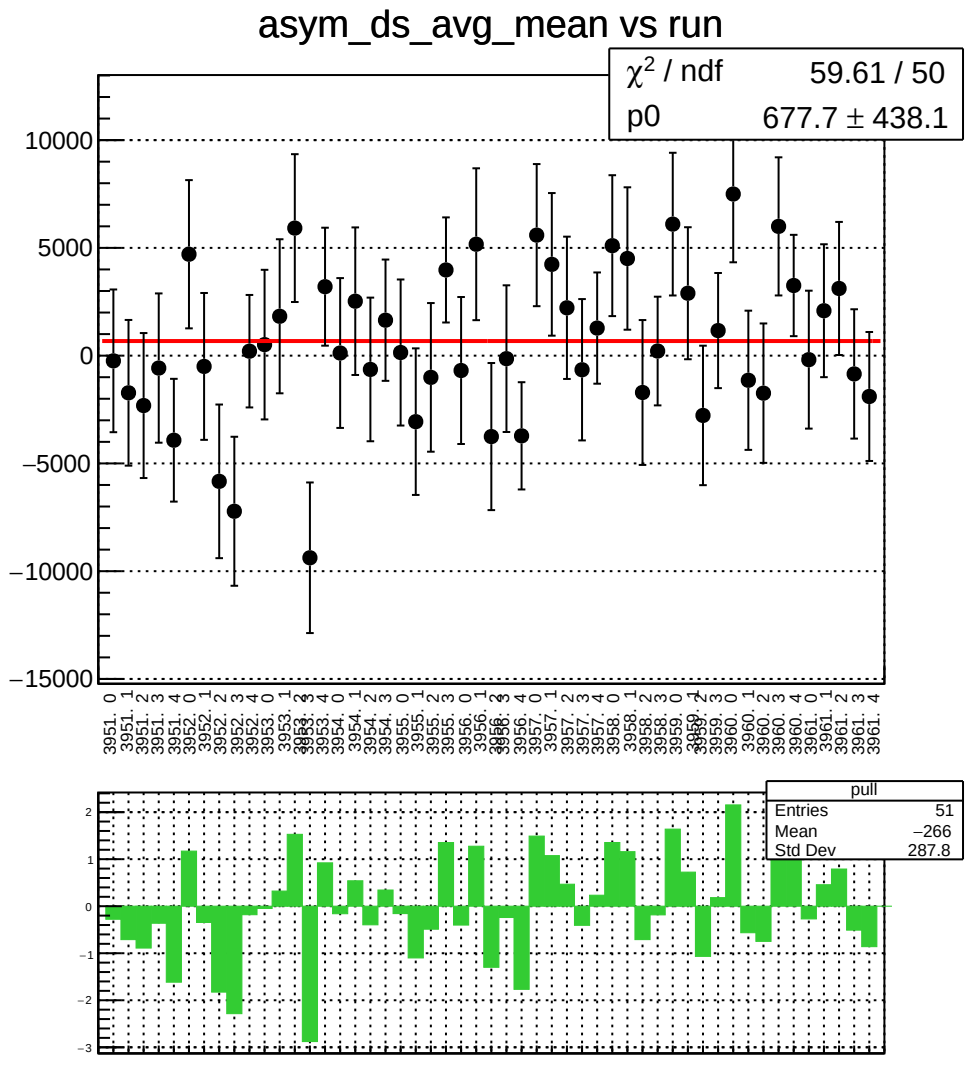
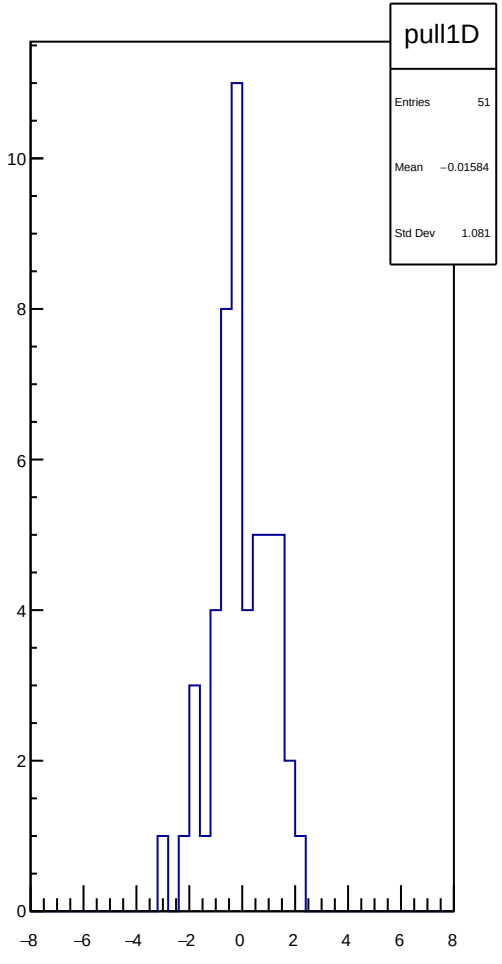
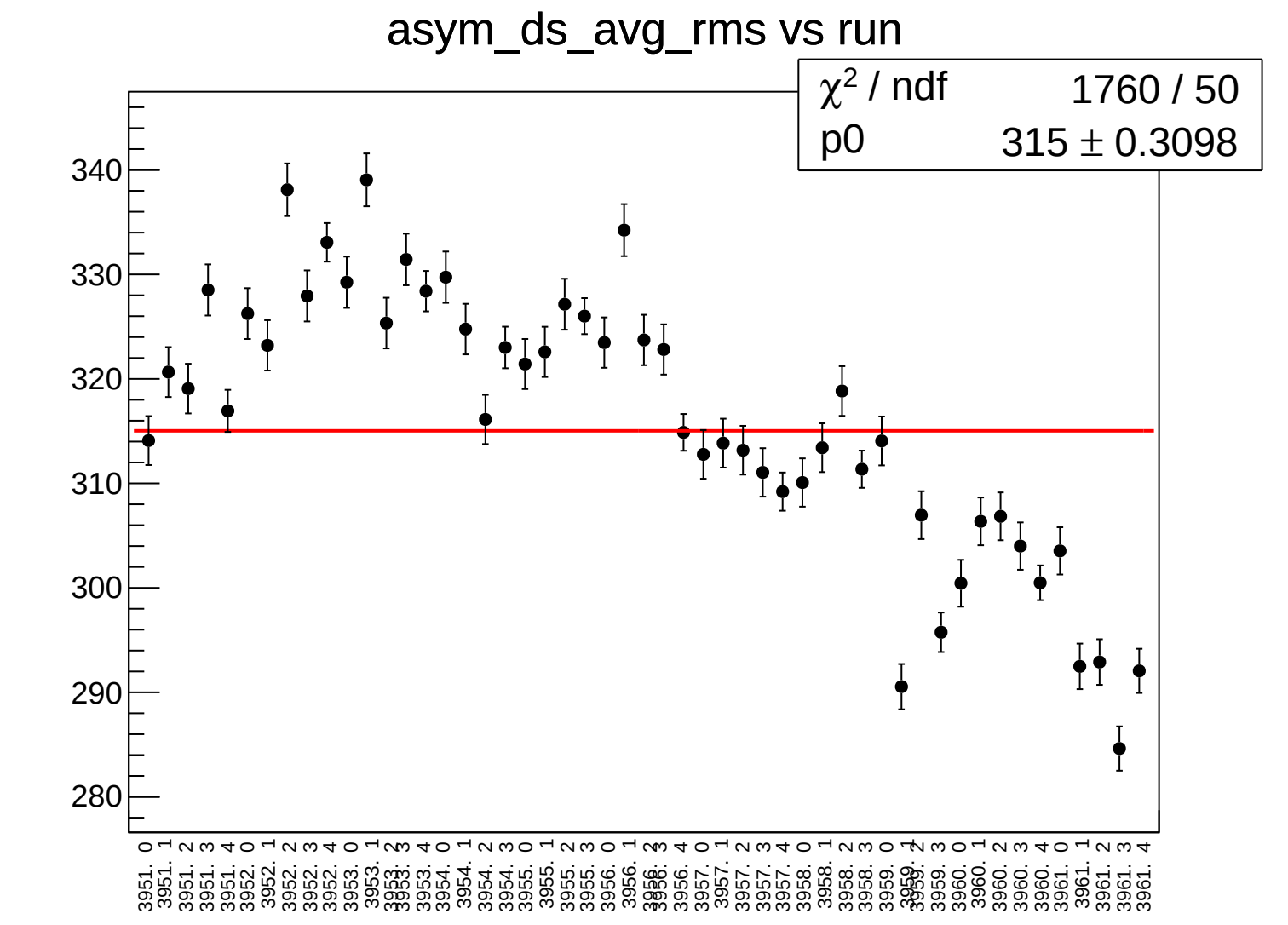
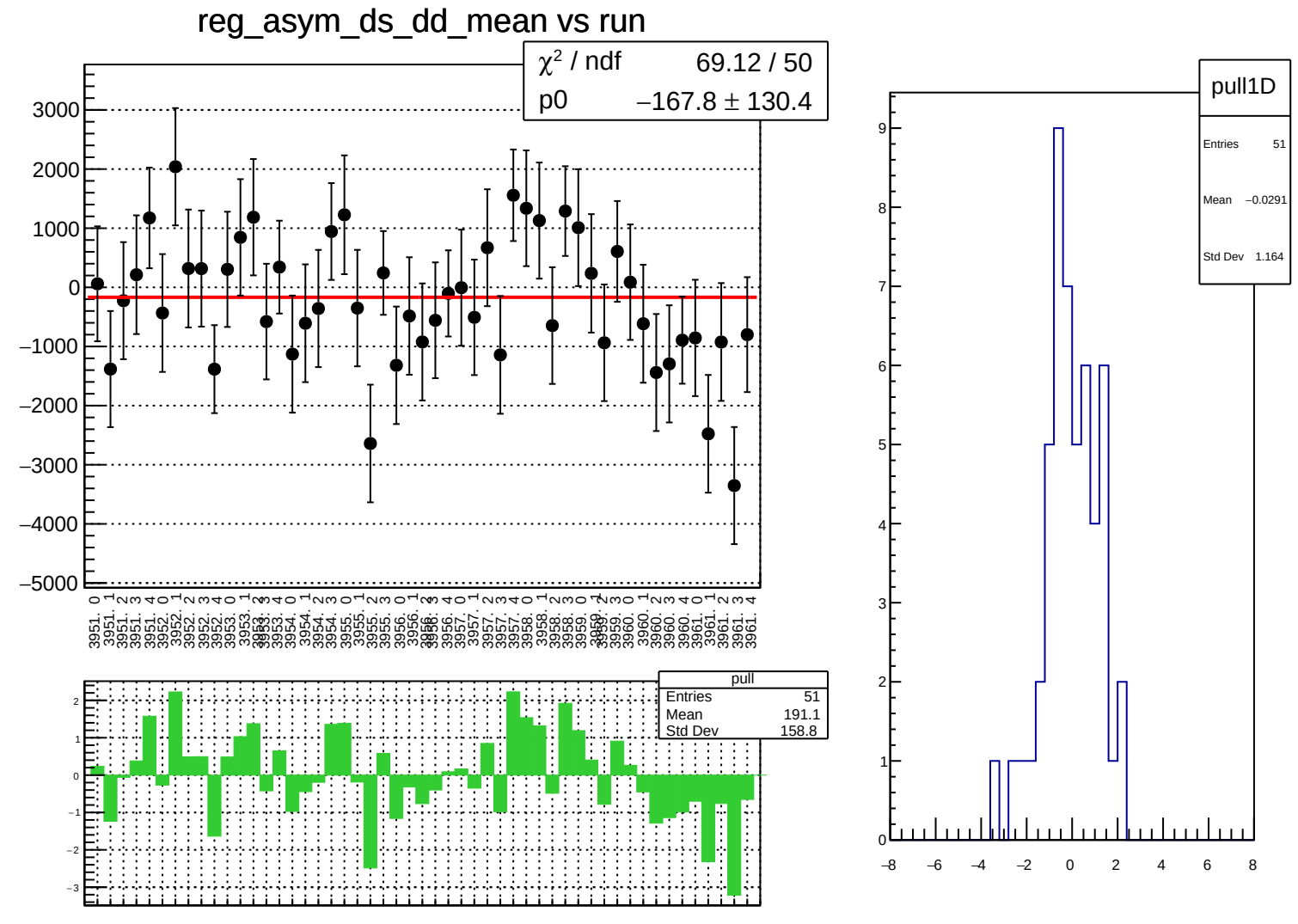
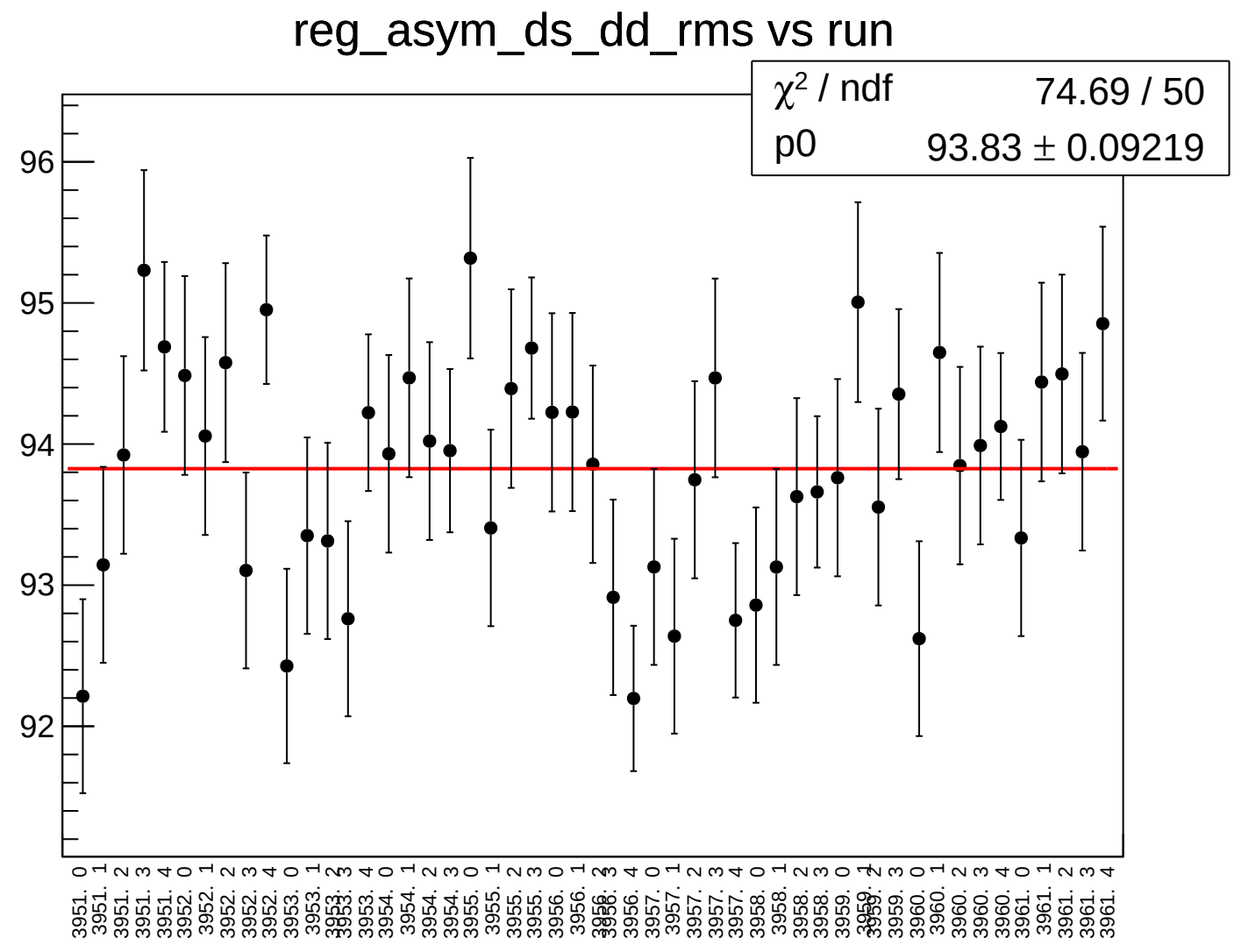
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

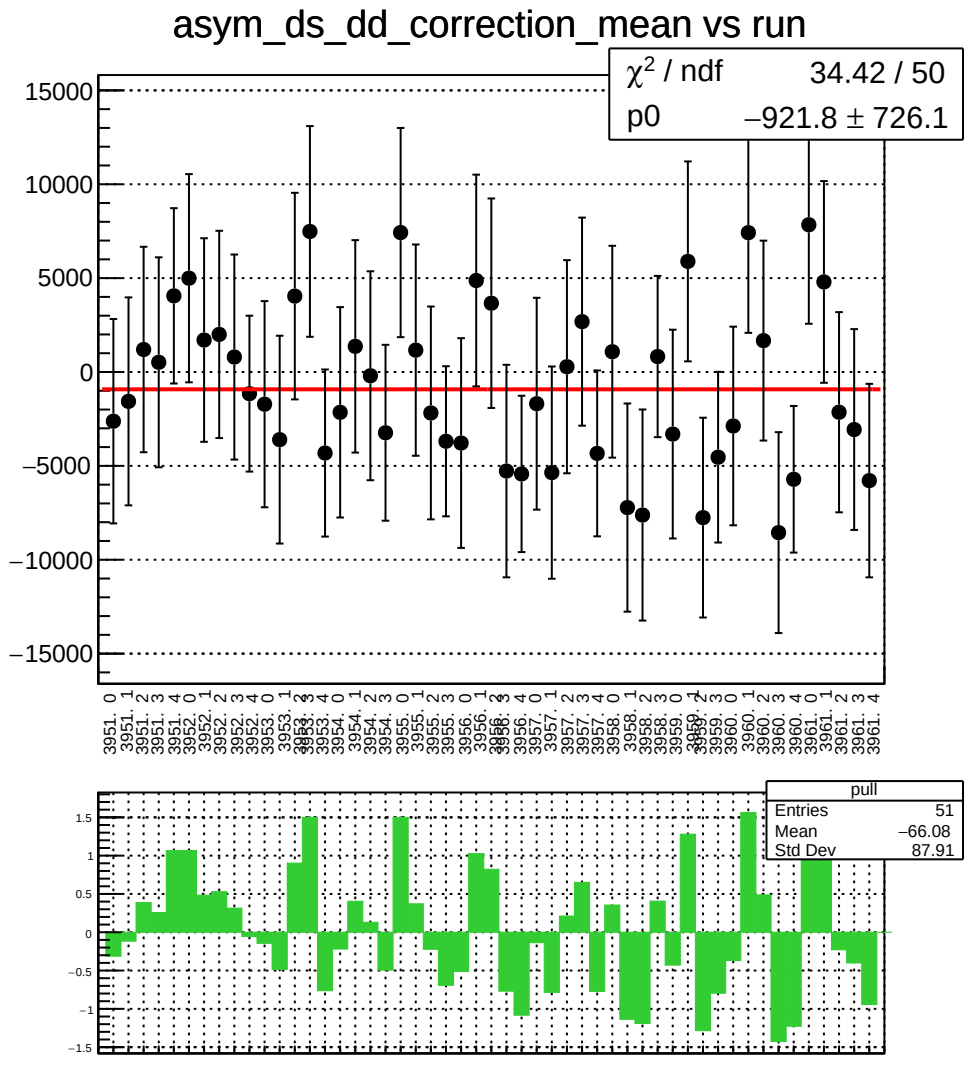

asym_ds_avg_mean vs run
χ² / ndf 59.61 / 50
p0 677.7 ± 438.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean −266
Std Dev 287.8
2
1
0
−1
−2
−3

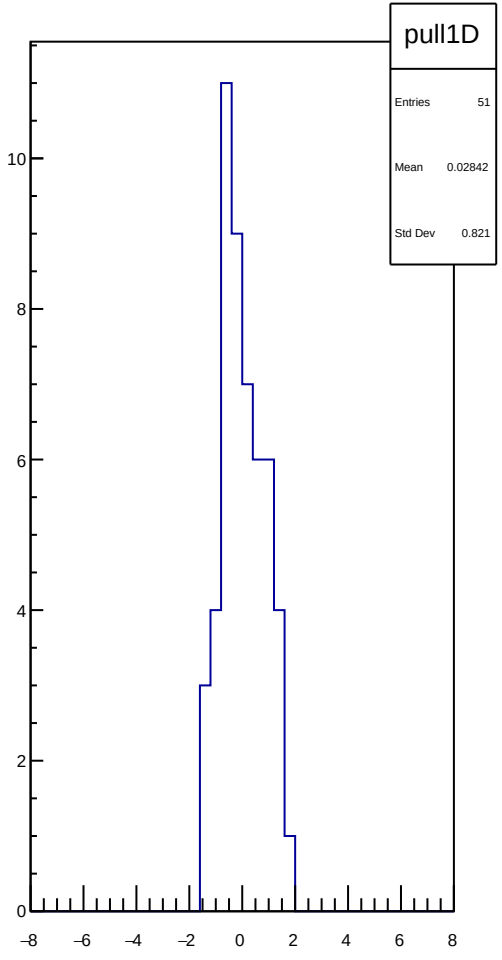

pull1D
Entries 51
Mean −0.01584
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

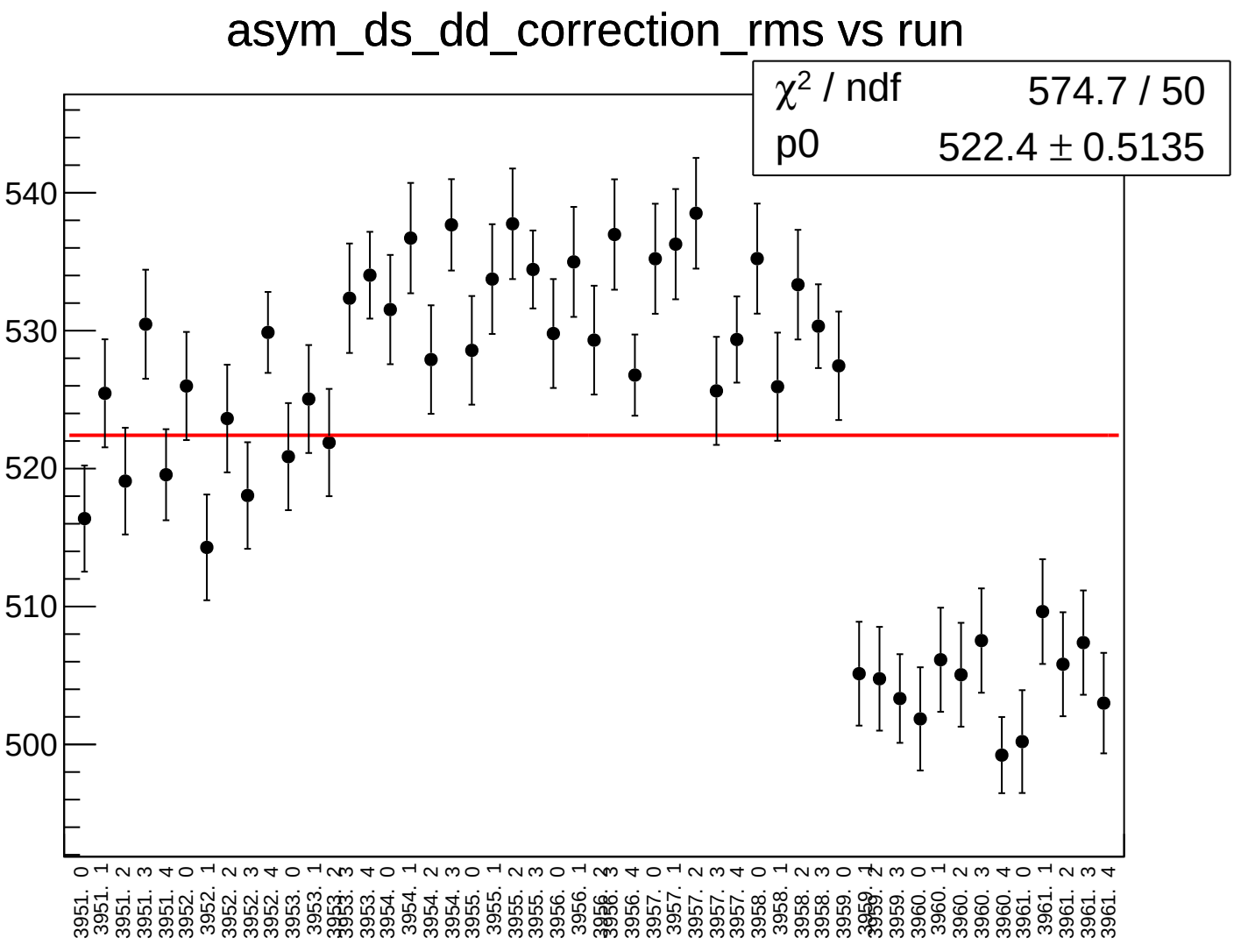

asym_ds_avg_rms vs run
χ² / ndf 1760 / 50
p0 315 ± 0.3098
340
330
320
310
300
290
280
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

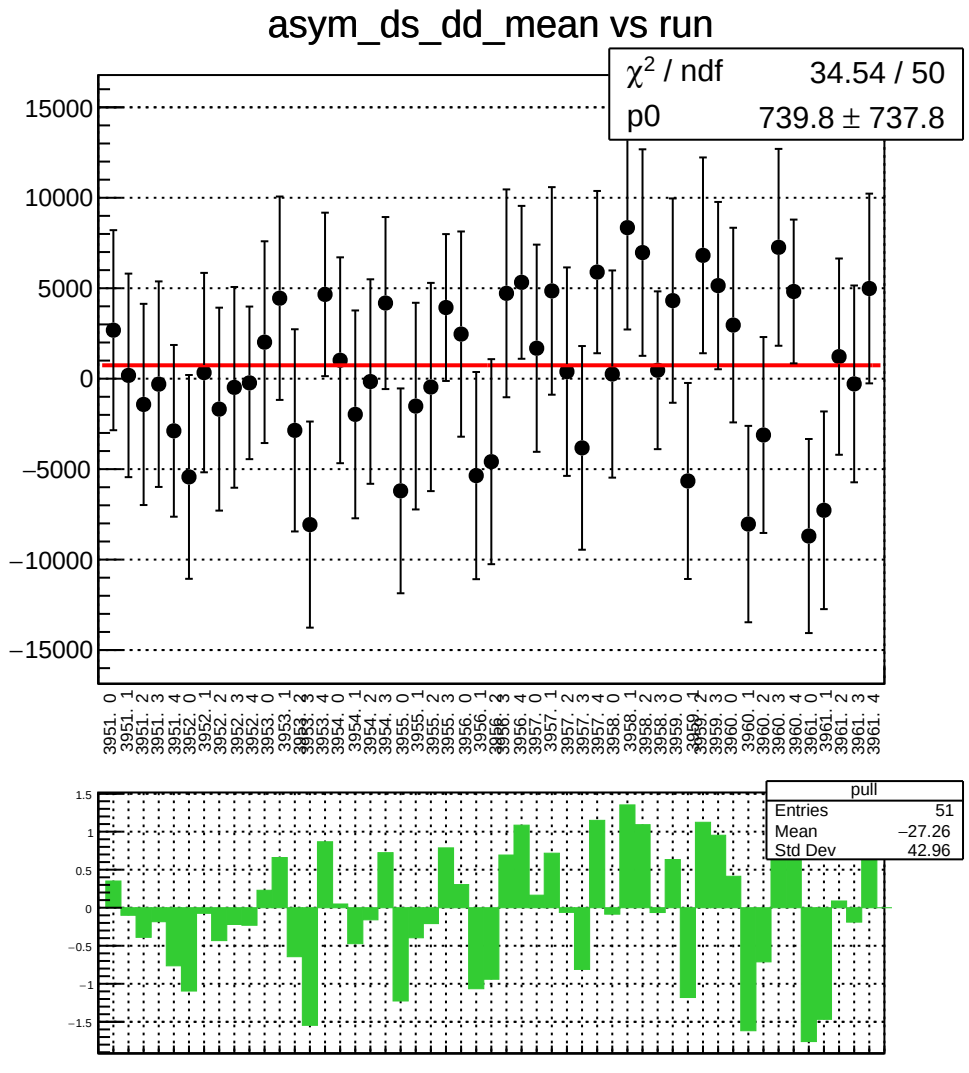

reg_asym_ds_dd_mean vs run
χ² / ndf 69.12 / 50
p0 −167.8 ± 130.4
pull
Entries 51
Mean 191.1
Std Dev 158.8
pull1D
Entries 51
Mean −0.0291
Std Dev 1.164

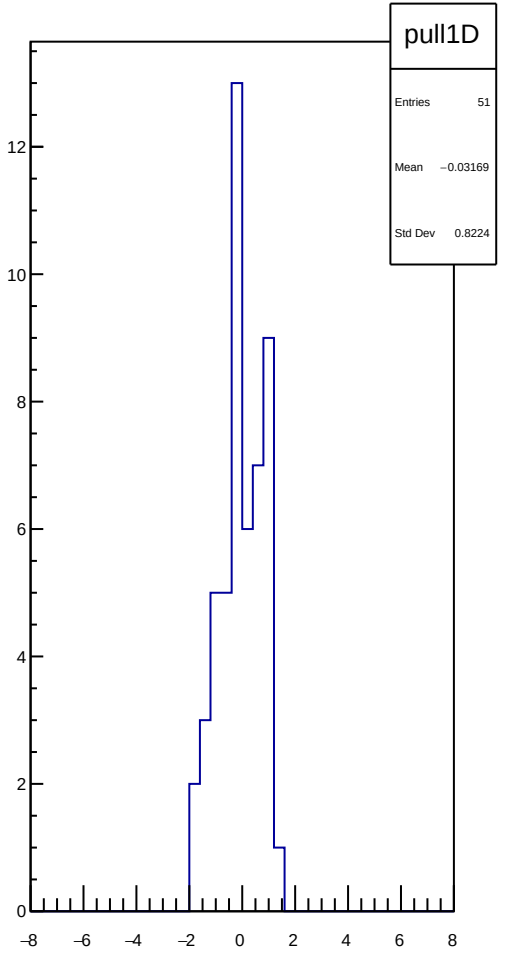

reg_asym_ds_dd_rms vs run
χ² / ndf 74.69 / 50
p0 93.83 ± 0.09219
96
95
94
93
92
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

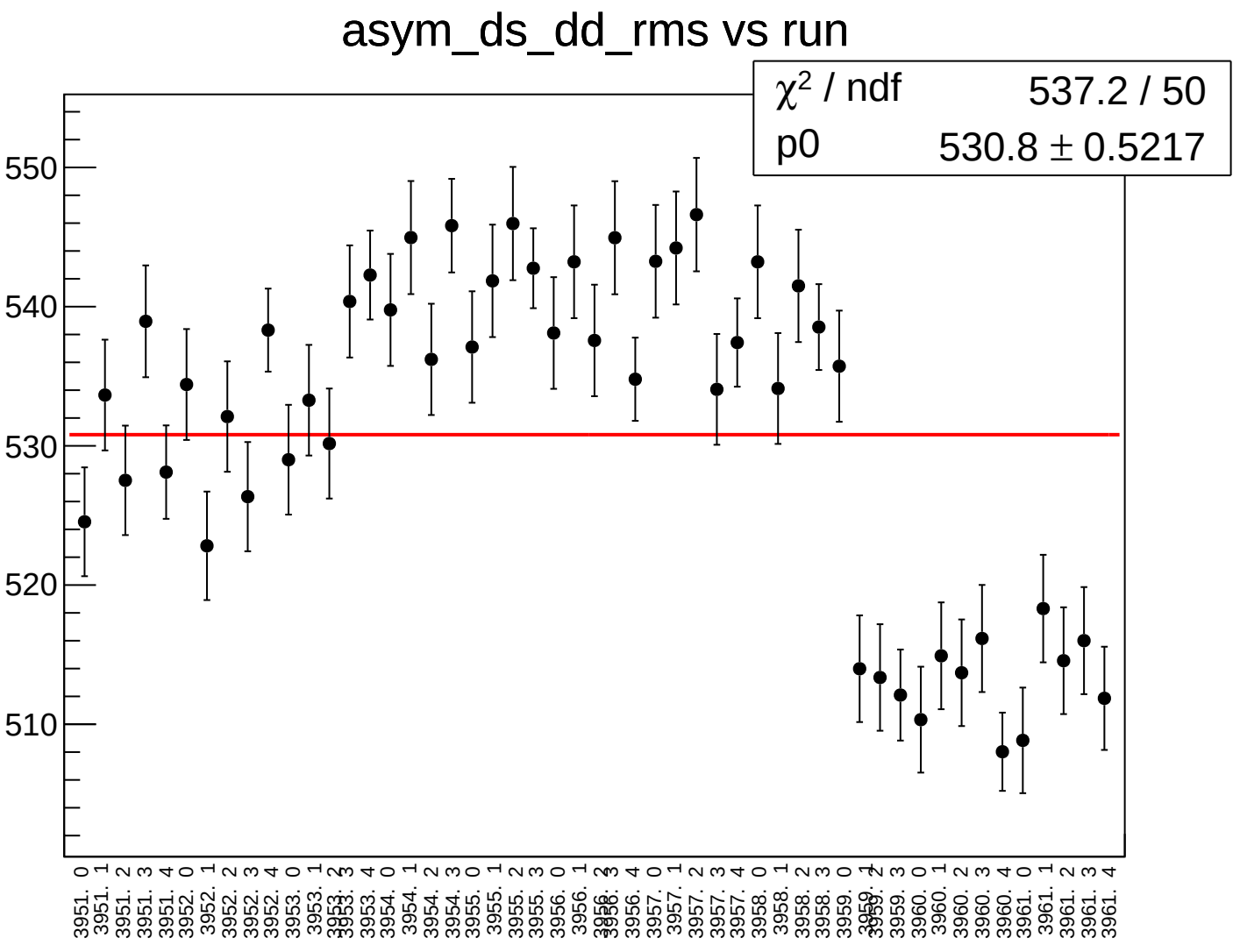

asym_ds_dd_correction_mean vs run
χ² / ndf 34.42 / 50
p0 −921.8 ± 726.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean −66.08
Std Dev 87.91
1.5
1
0.5
0
−0.5
−1
−1.5

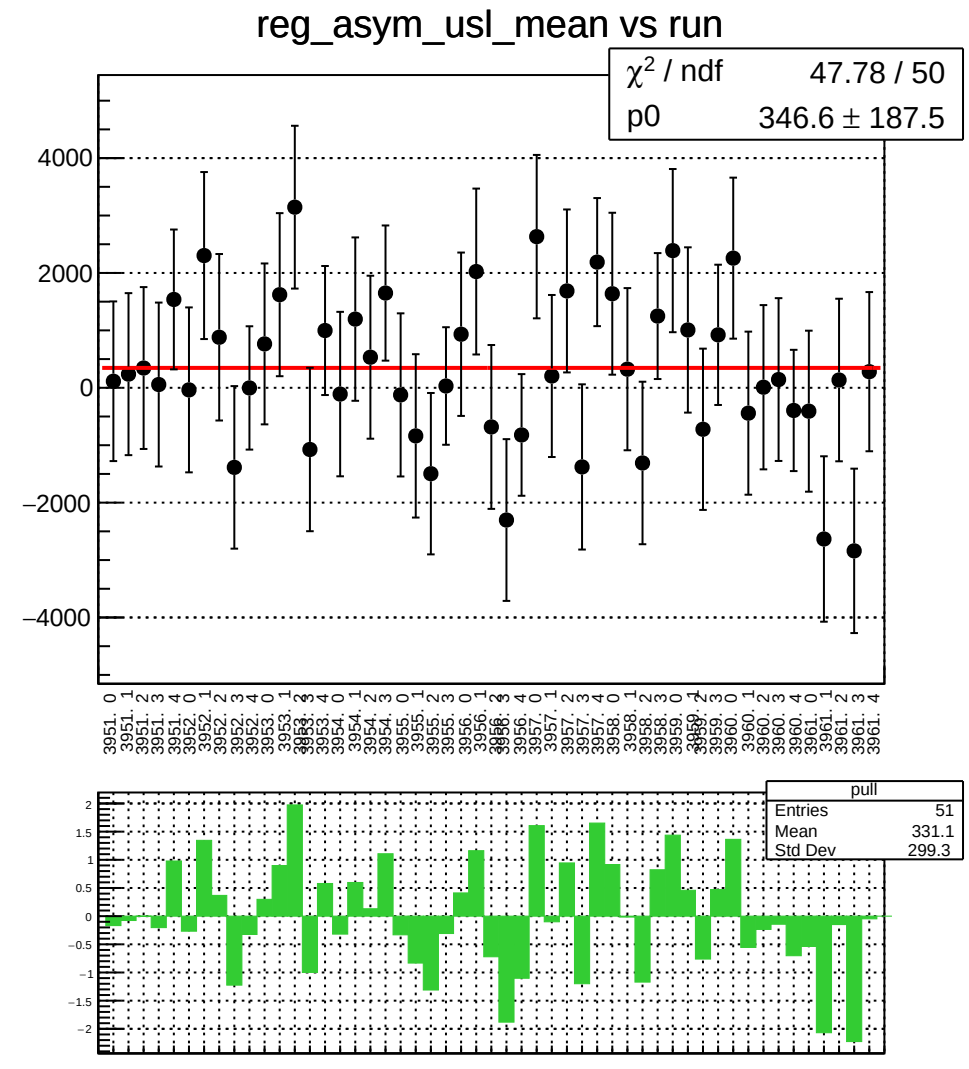

pull1D
Entries 51
Mean 0.02842
Std Dev 0.821
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

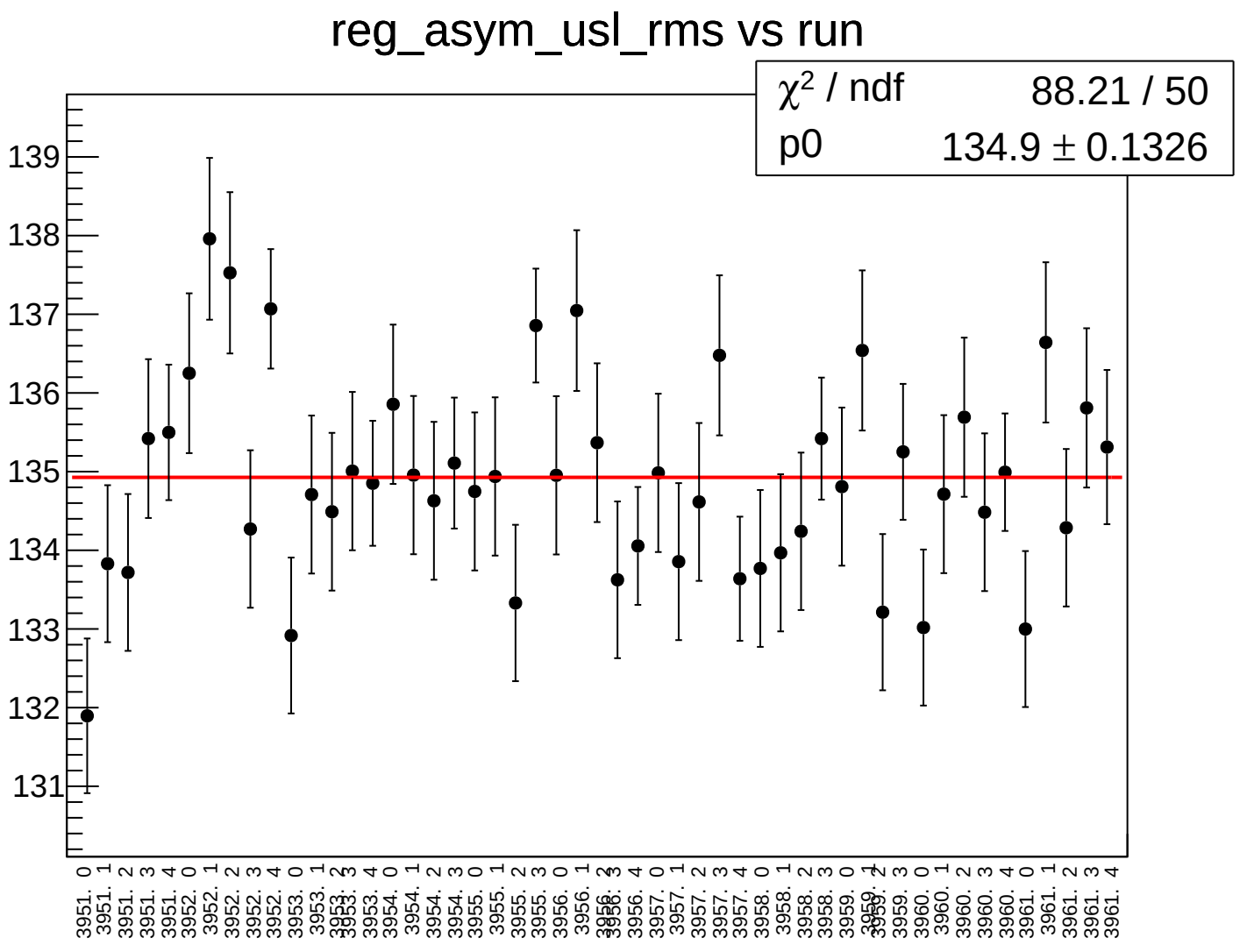

asym_ds_dd_correction_rms vs run
χ² / ndf 574.7 / 50
p0 522.4 ± 0.5135
540
530
520
510
500
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

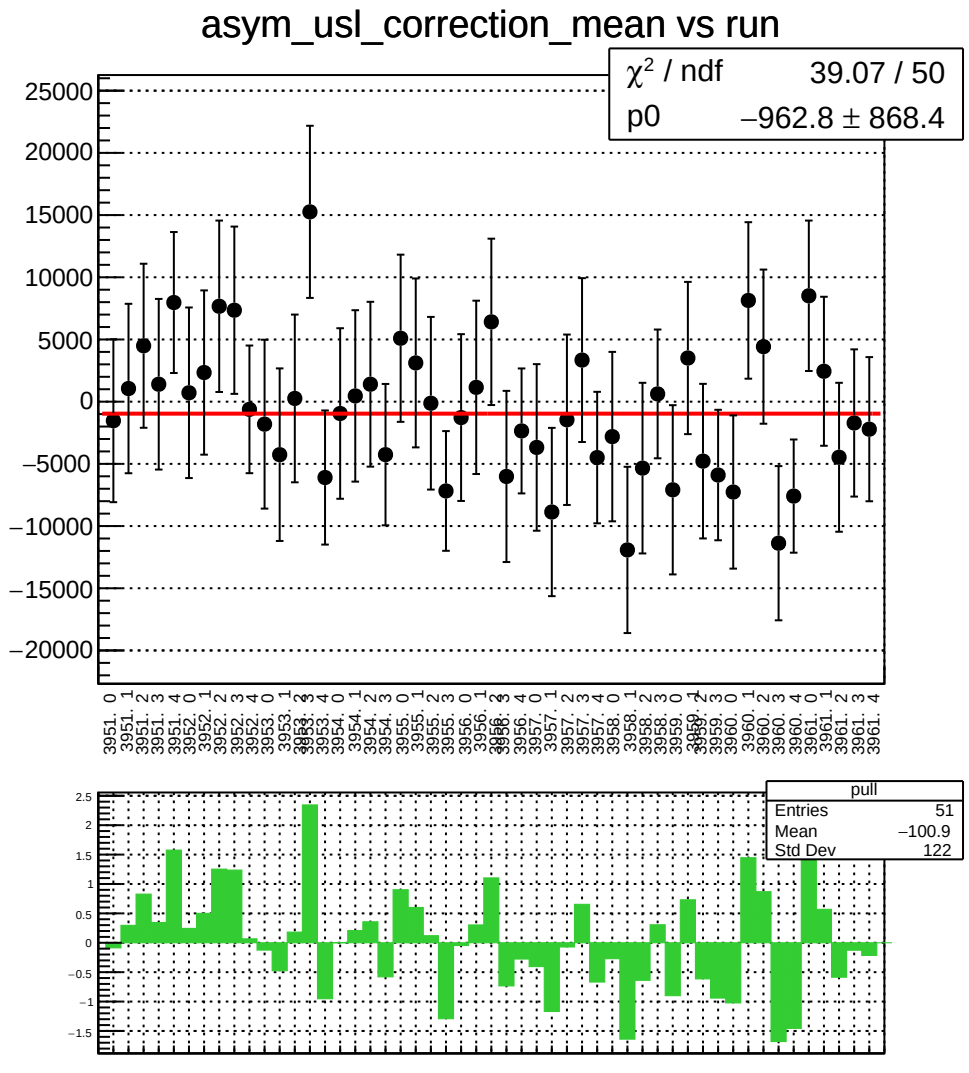

asym_ds_dd_mean vs run
χ² / ndf 34.54 / 50
p0 739.8 ± 737.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean −27.26
Std Dev 42.96
1.5
1
0.5
0
−0.5
−1
−1.5

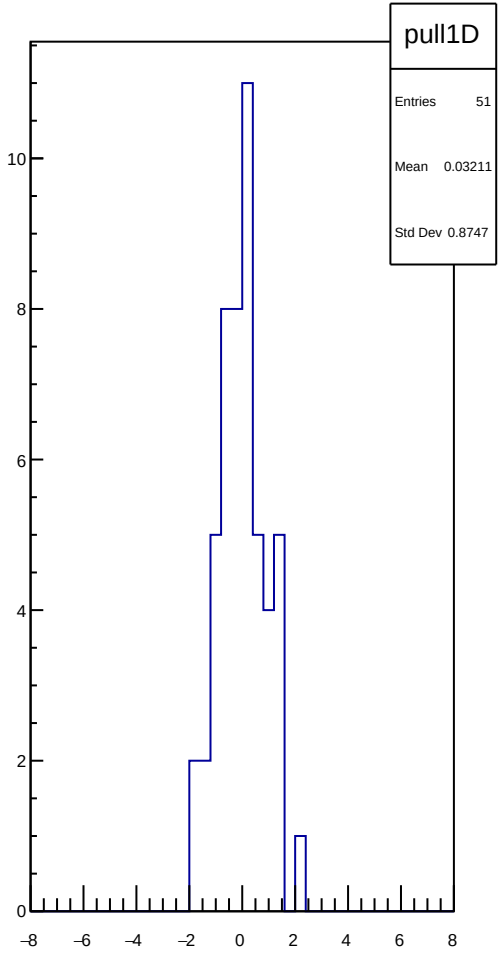

pull1D
Entries 51
Mean −0.03169
Std Dev 0.8224
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

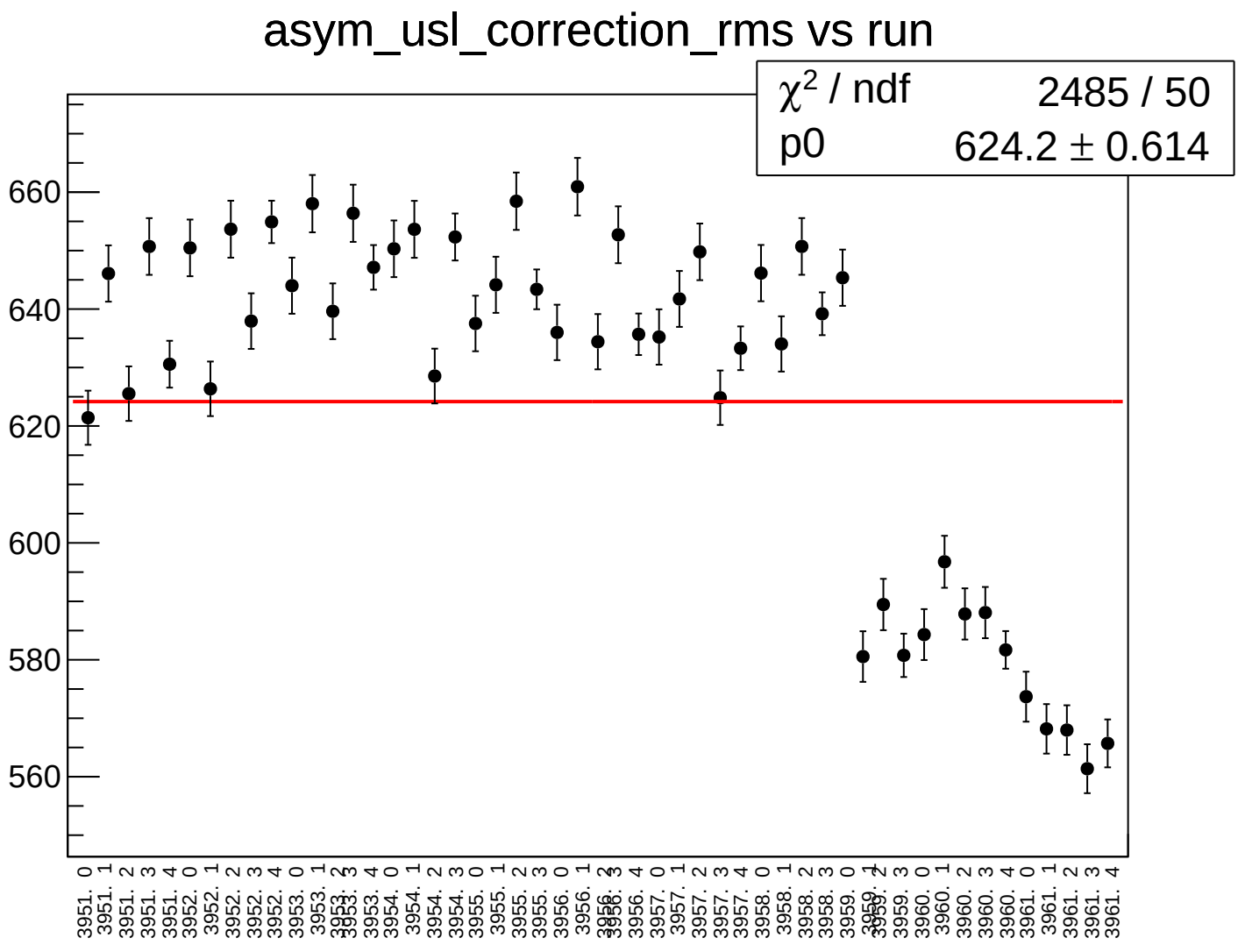

asym_ds_dd_rms vs run
χ² / ndf 537.2 / 50
p0 530.8 ± 0.5217
550
540
530
520
510
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

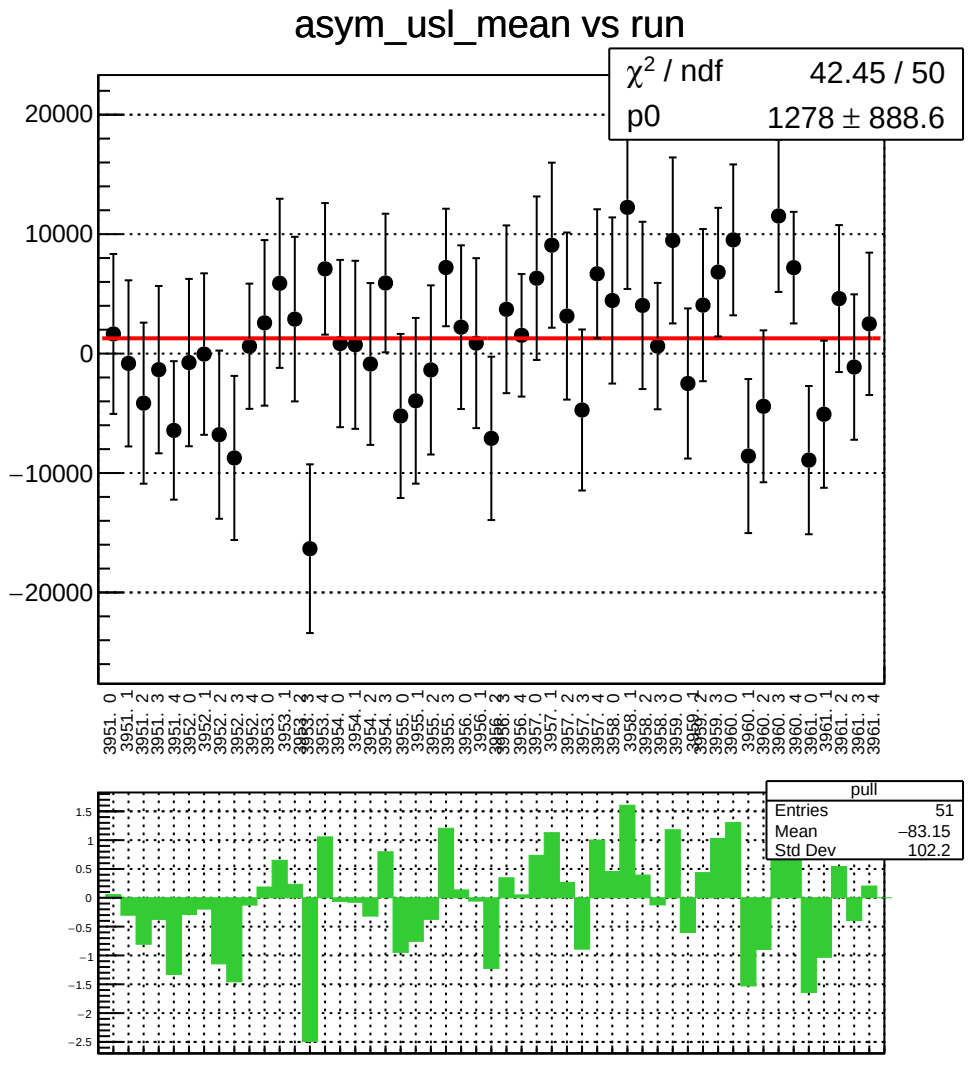

reg_asym_usl_mean vs run
χ² / ndf 47.78 / 50
p0 346.6 ± 187.5
4000
2000
0
−2000
−4000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3954. 4
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3958. 4
3959. 0
3959. 1
3959. 2
3959. 3
3959. 4
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4
pull
Entries 51
Mean 331.1
Std Dev 299.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 51
Mean −0.008885
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

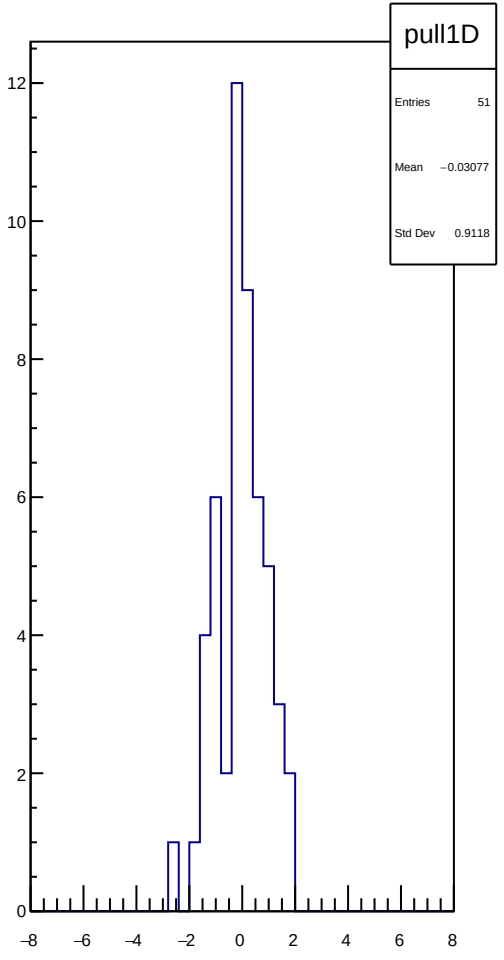

reg_asym_usl_rms vs run
χ² / ndf 88.21 / 50
p0 134.9 ± 0.1326
139
138
137
136
135
134
133
132
131
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

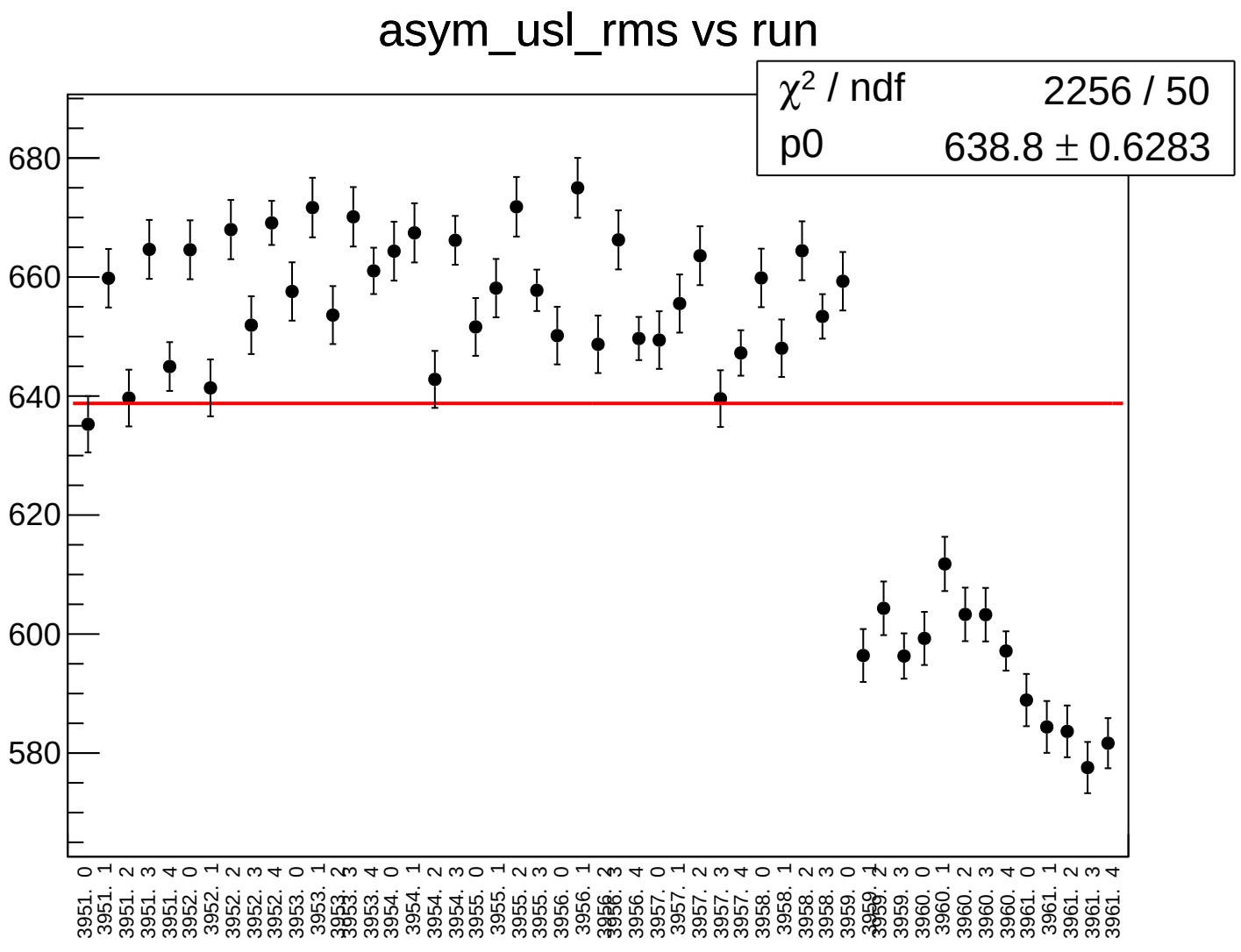

asym_usl_correction_mean vs run
χ² / ndf 39.07 / 50
p0 −962.8 ± 868.4
pull
Entries 51
Mean −100.9
Std Dev 122

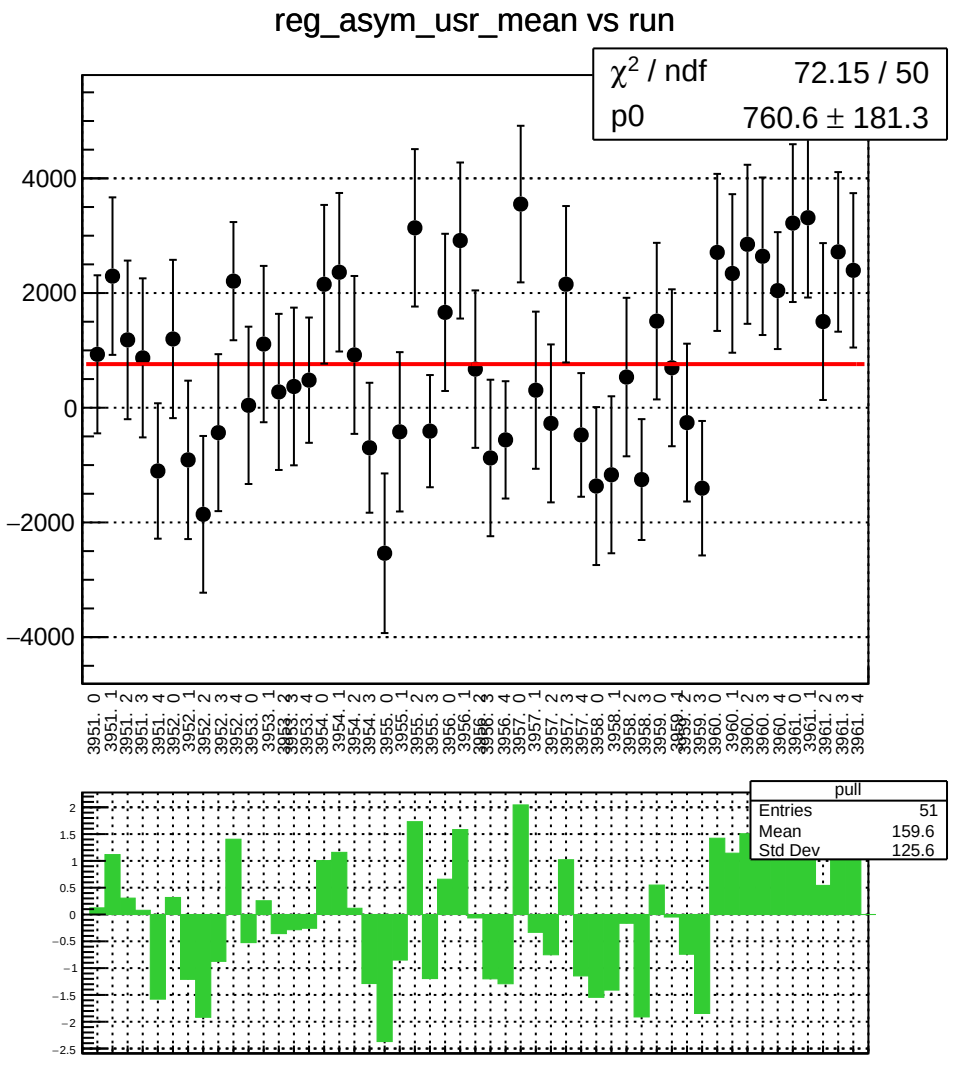

pull1D
Entries 51
Mean 0.03211
Std Dev 0.8747

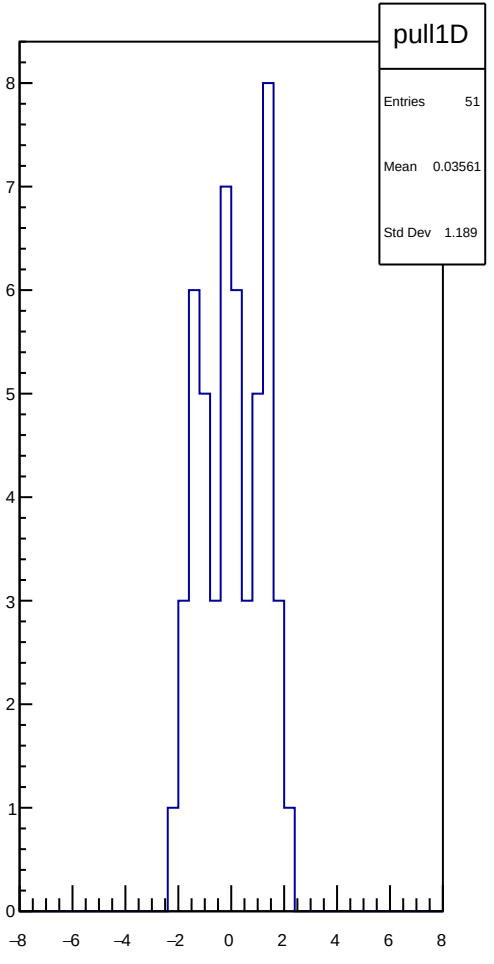

asym_usl_correction_rms vs run
χ² / ndf 2485 / 50
p0 624.2 ± 0.614
660
640
620
600
580
560
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

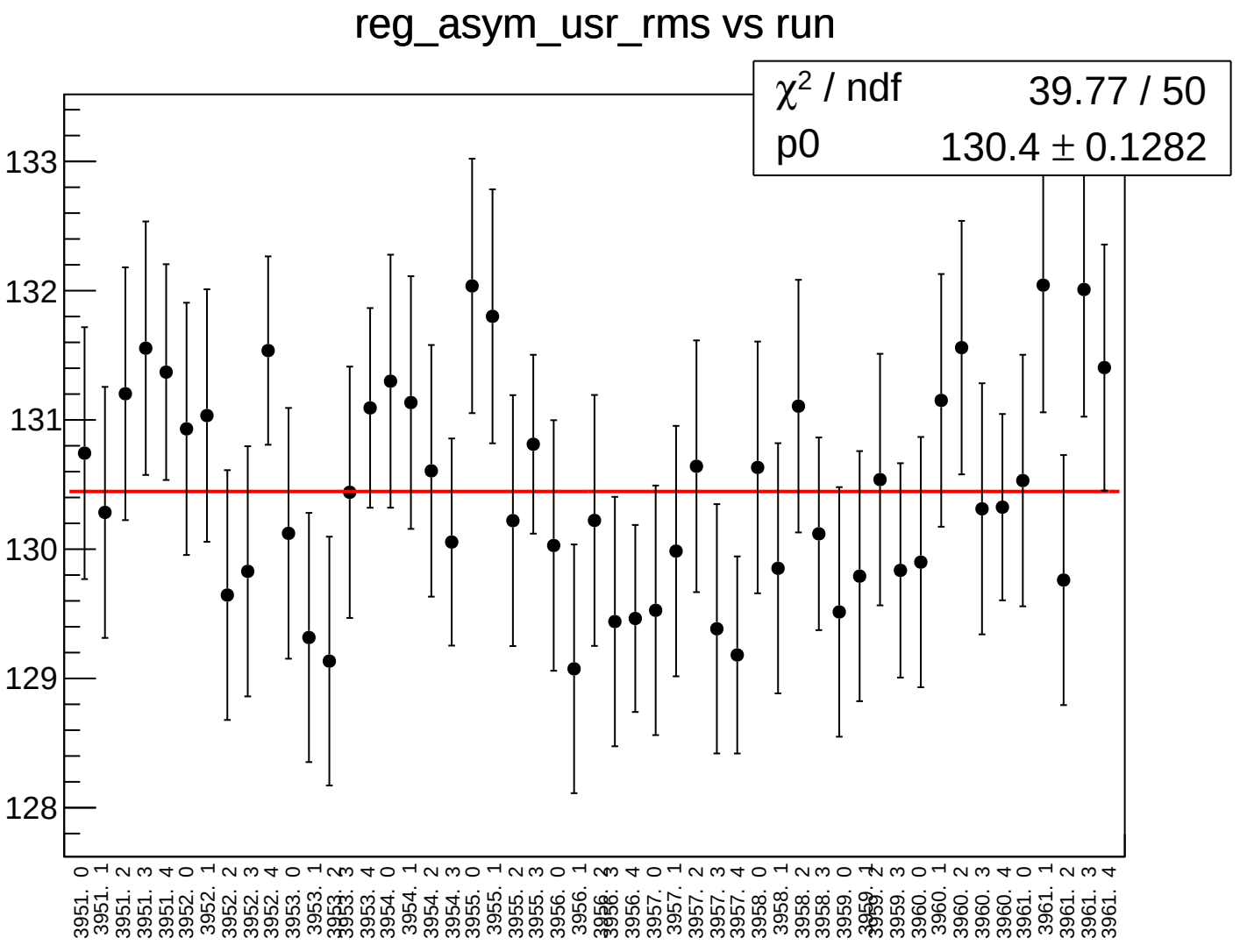

asym_usl_mean vs run
χ² / ndf 42.45 / 50
p0 1278 ± 888.6
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −83.15
Std Dev 102.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

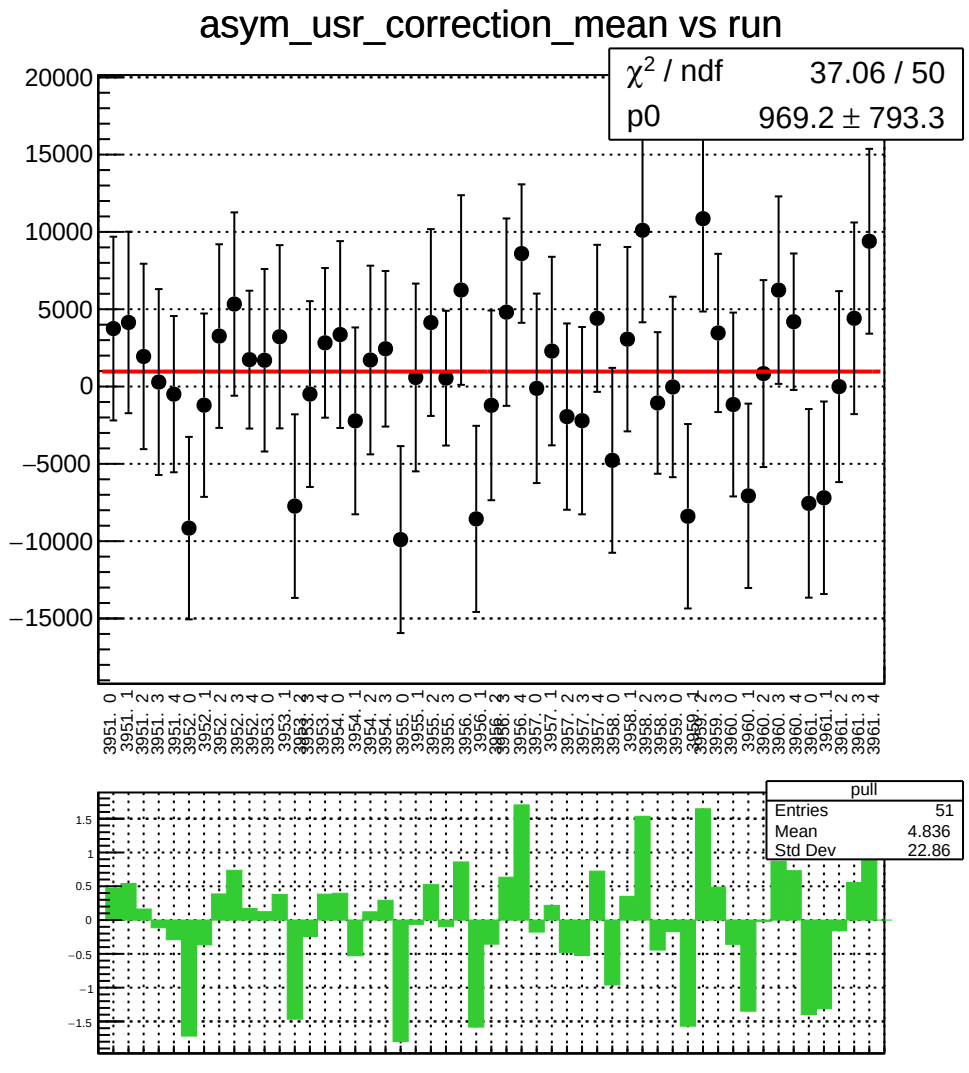

pull1D
Entries 51
Mean −0.03077
Std Dev 0.9118
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

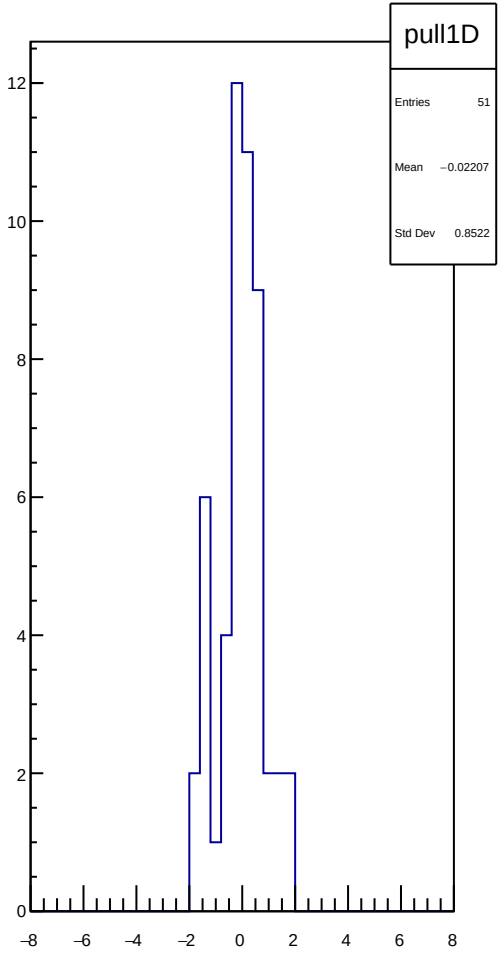

asym_usl_rms vs run
χ² / ndf 2256 / 50
p0 638.8 ± 0.6283
680
660
640
620
600
580
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

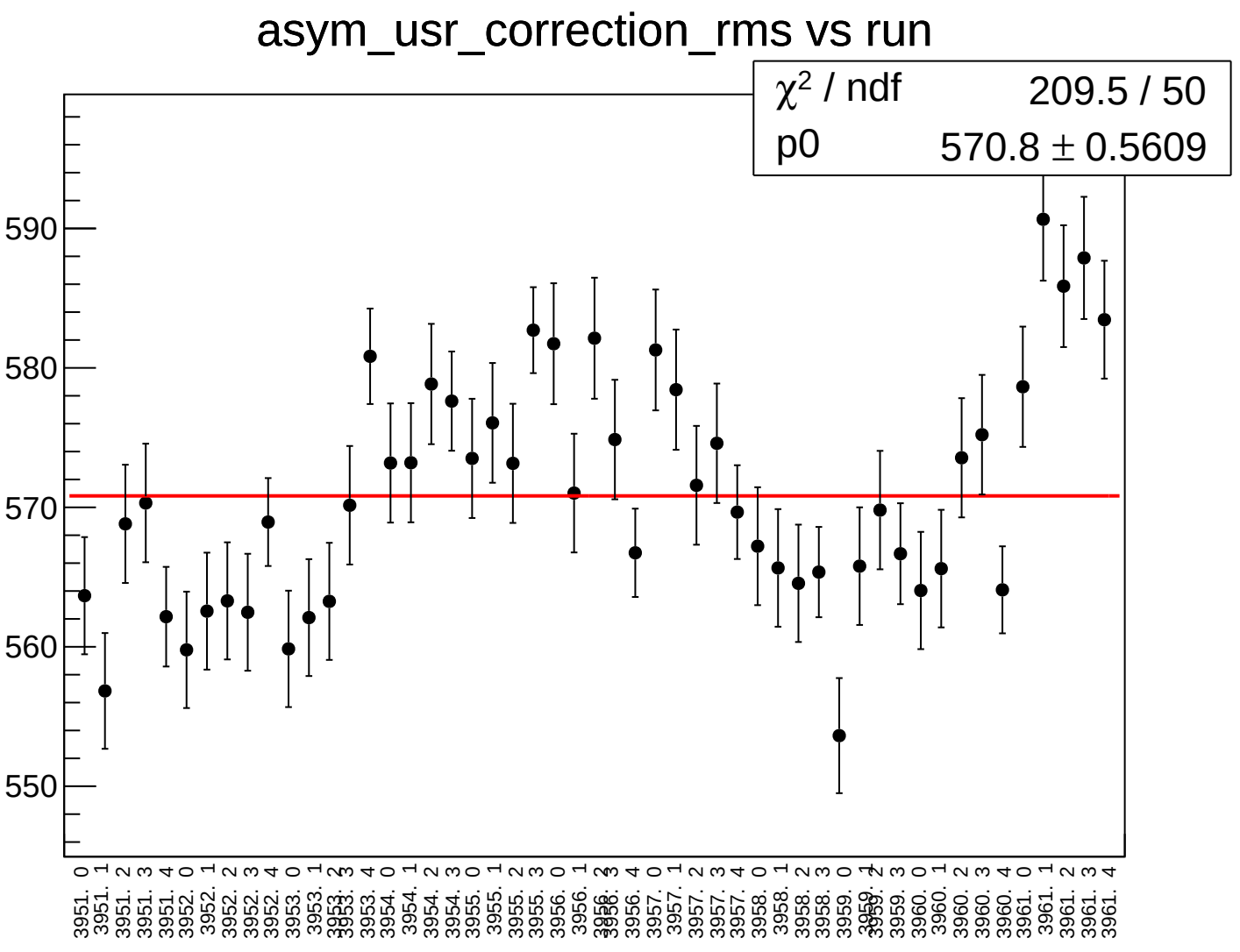

reg_asym_usr_mean vs run
χ² / ndf 72.15 / 50
p0 760.6 ± 181.3
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 159.6
Std Dev 125.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

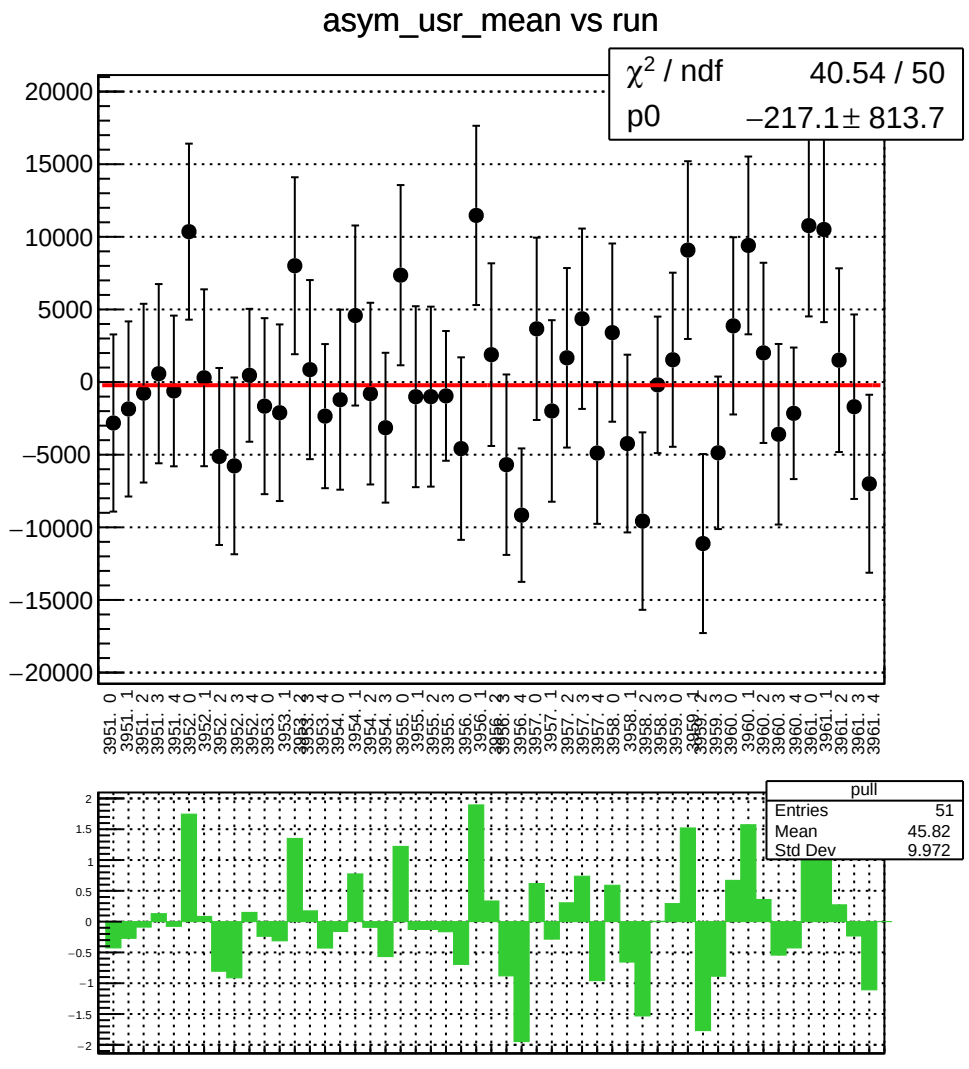

pull1D
Entries 51
Mean 0.03561
Std Dev 1.189
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

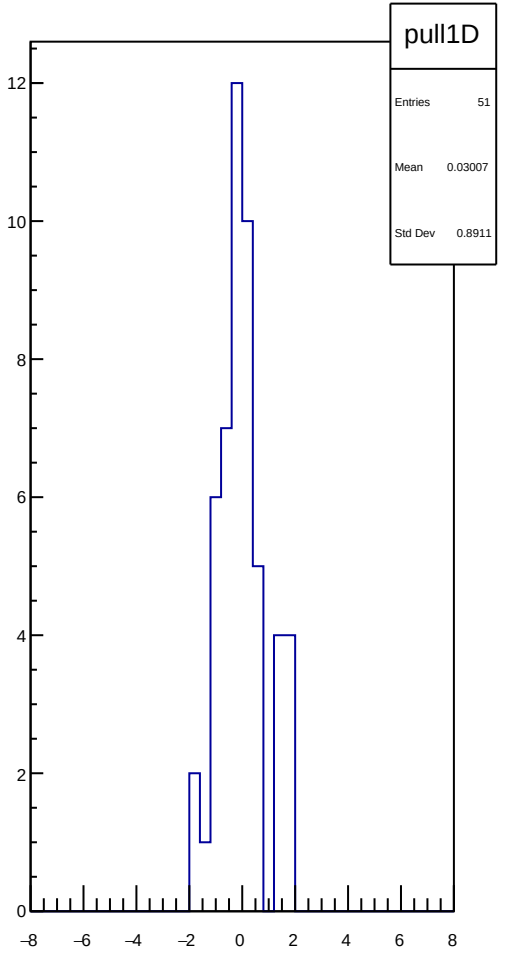

reg_asym_usr_rms vs run
χ² / ndf 39.77 / 50
p0 130.4 ± 0.1282
133
132
131
130
129
128
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

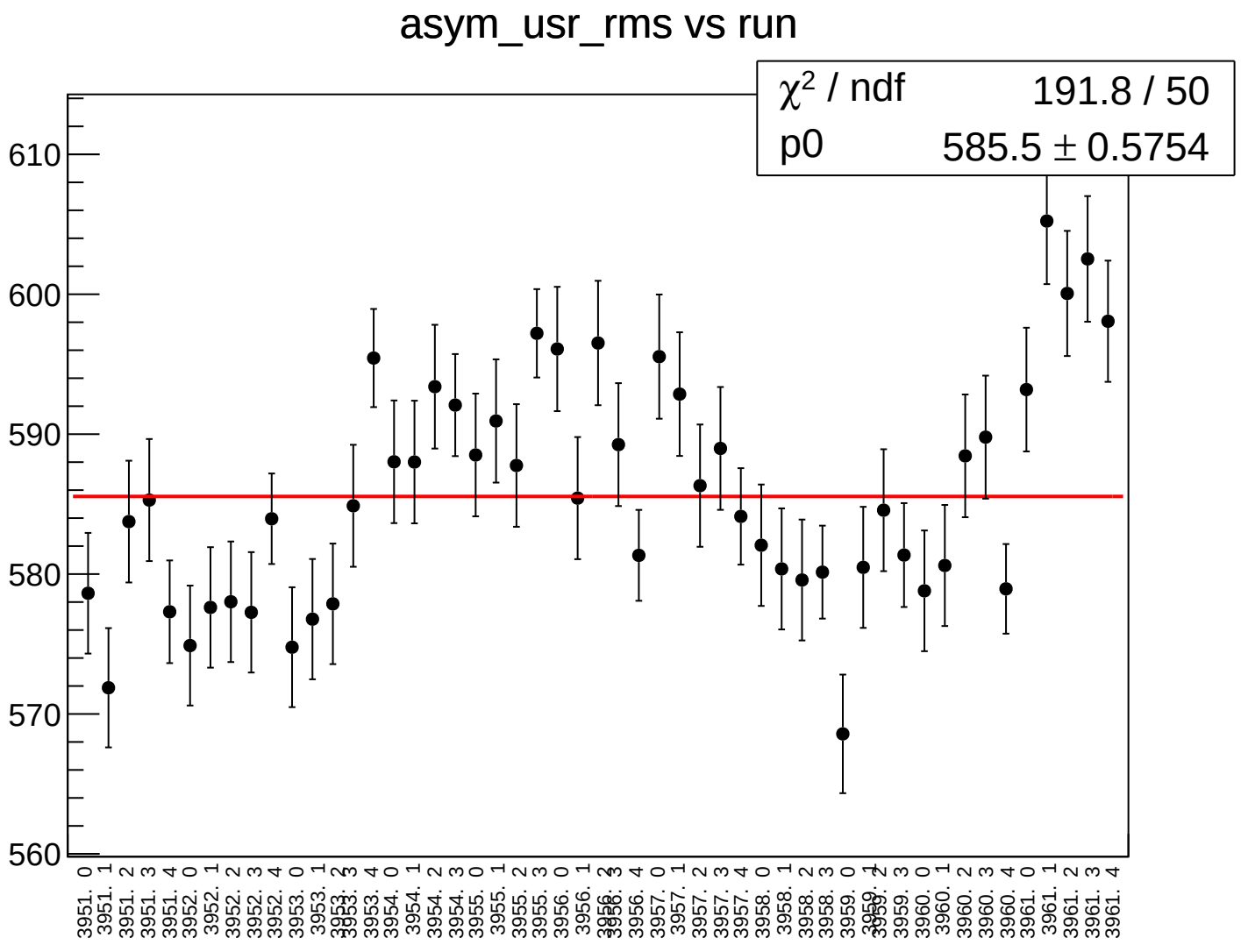

asym_usr_correction_mean vs run
χ^2 / ndf 37.06 / 50
p0 969.2 ± 793.3
pull
Entries 51
Mean 4.836
Std Dev 22.86


pull1D
Entries 51
Mean −0.02207
Std Dev 0.8522


asym_usr_correction_rms vs run
χ² / ndf 209.5 / 50
p0 570.8 ± 0.5609
590
580
570
560
550
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_usr_mean vs run
χ² / ndf 40.54 / 50
p0 −217.1± 813.7
pull
Entries 51
Mean 45.82
Std Dev 9.972


pull1D
Entries 51
Mean 0.03007
Std Dev 0.8911


asym_usr_rms vs run
χ² / ndf 191.8 / 50
p0 585.5 ± 0.5754
610
600
590
580
570
560
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
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3956. 2
3956. 3
3956. 4
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3957. 3
3957. 4
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3958. 1
3958. 2
3958. 3
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3959. 1
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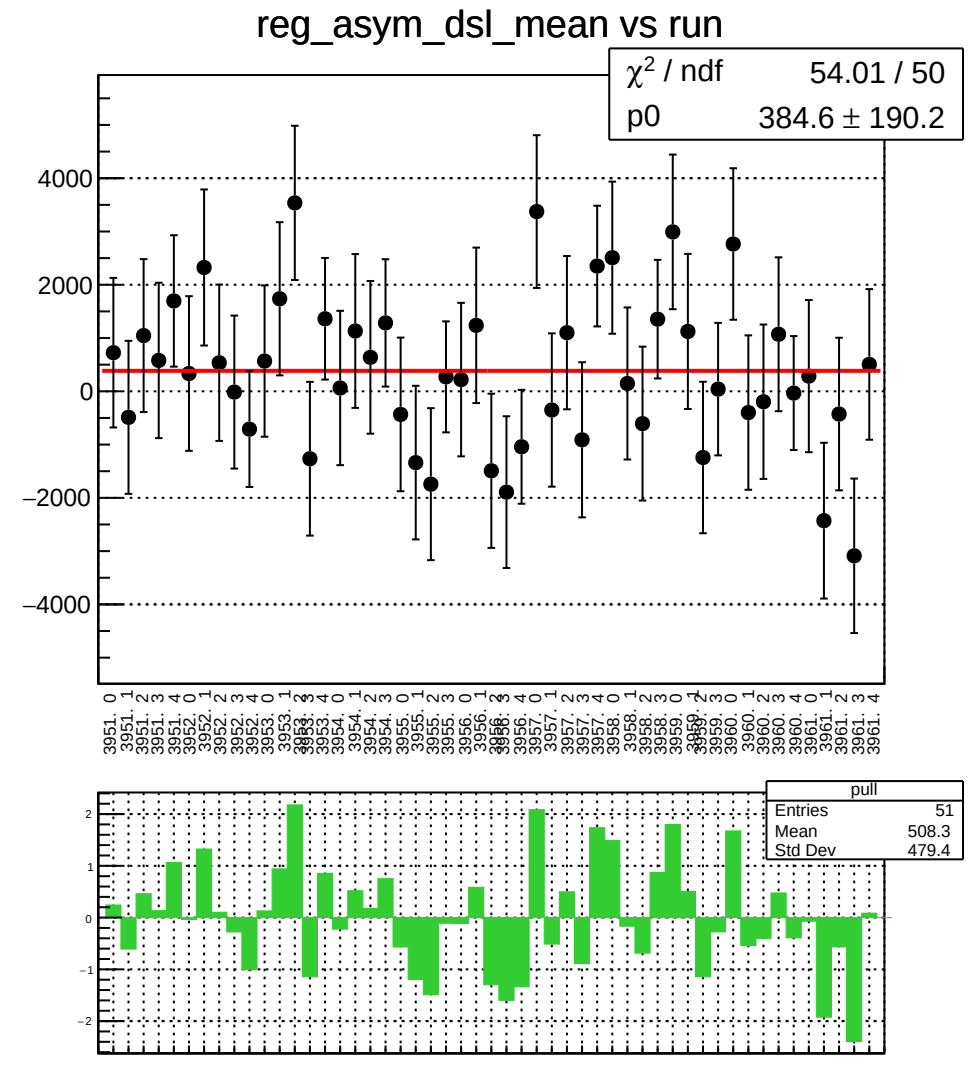
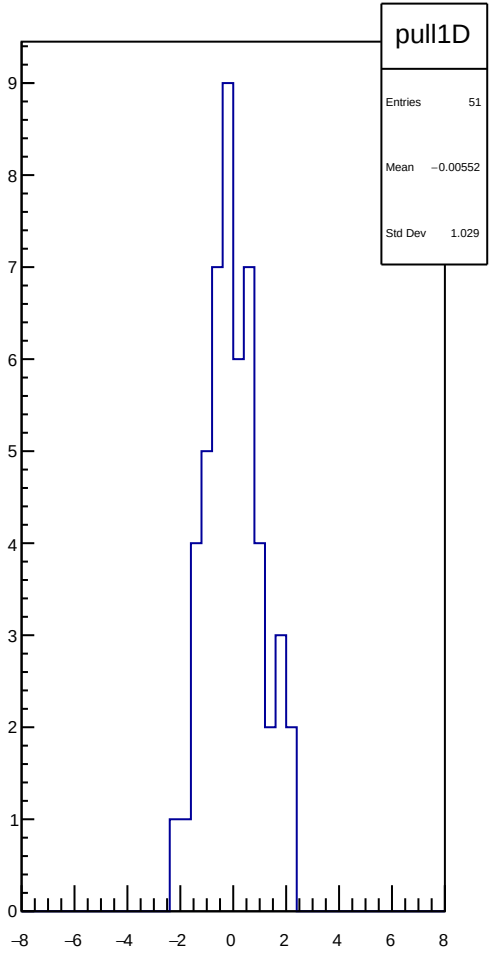
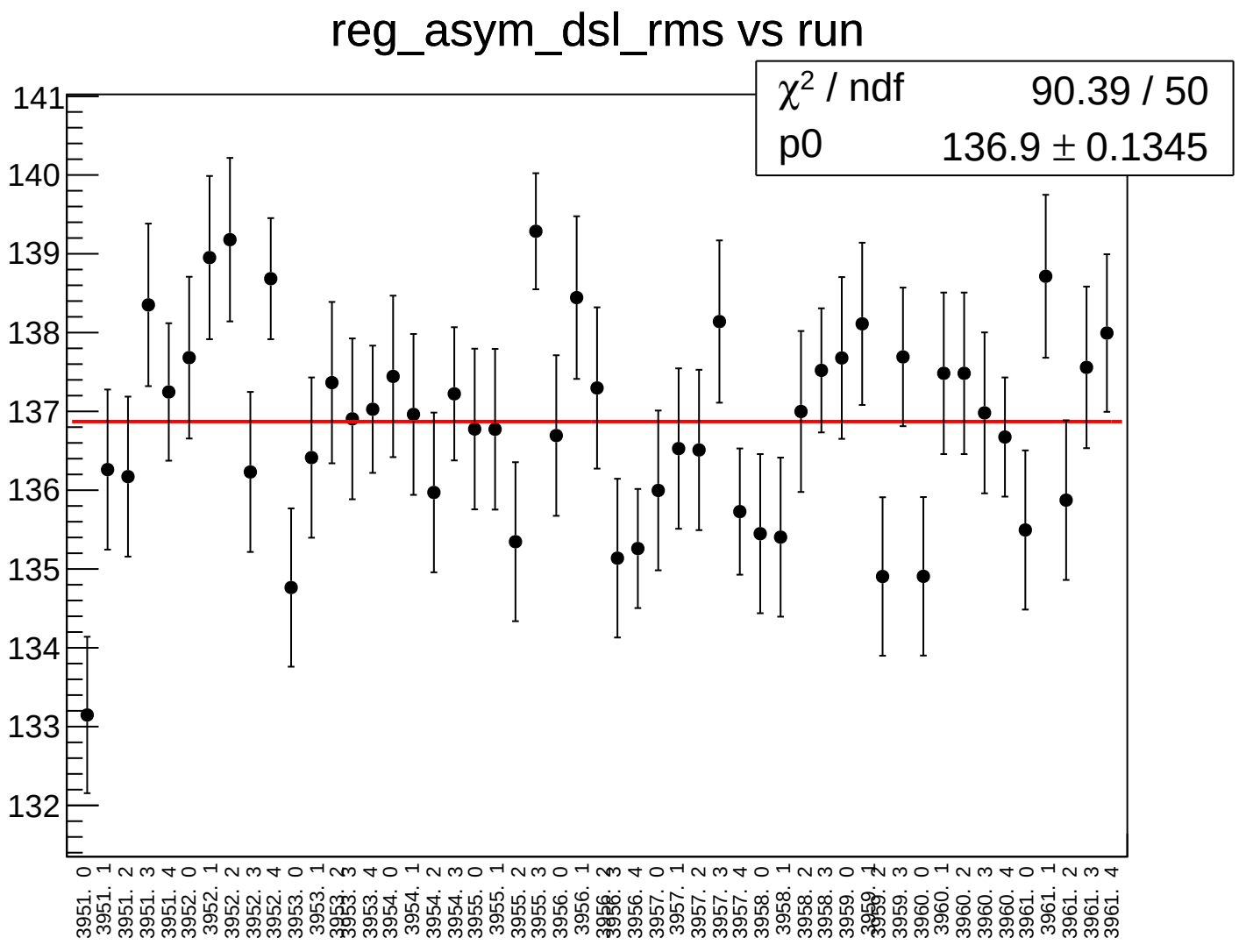
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_dsl_mean vs run
χ² / ndf 54.01 / 50
p0 384.6 ± 190.2
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 508.3
Std Dev 479.4
2
1
0
−1
−2


pull1D
Entries 51
Mean −0.00552
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_rms vs run
χ² / ndf 90.39 / 50
p0 136.9 ± 0.1345
141
140
139
138
137
136
135
134
133
132
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
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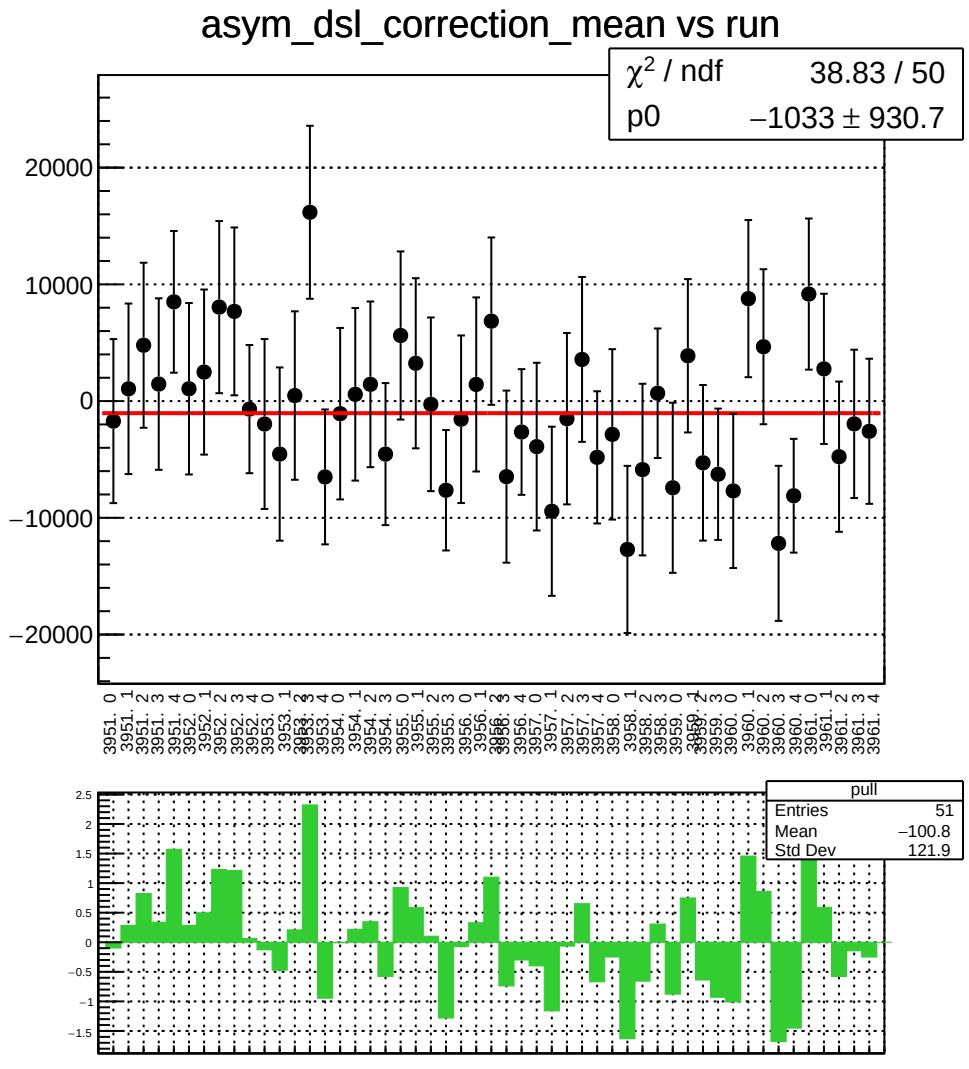
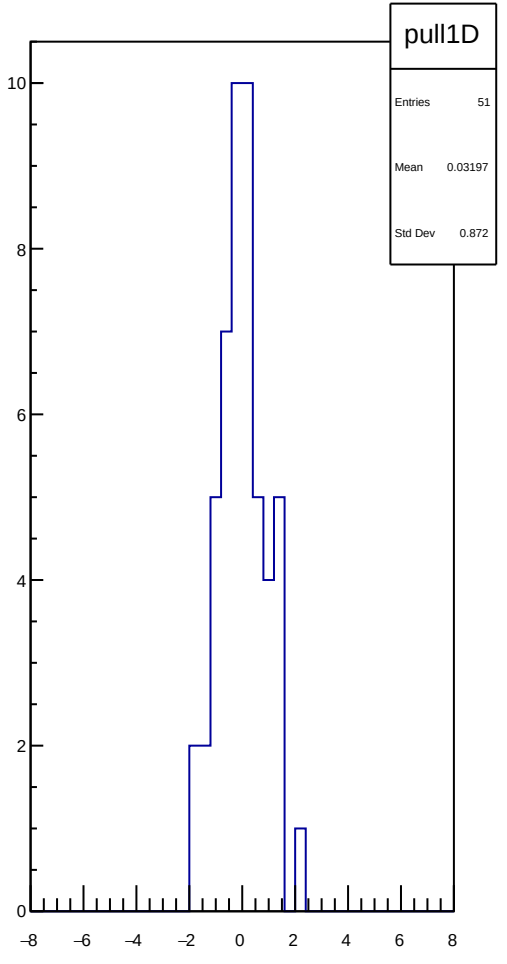
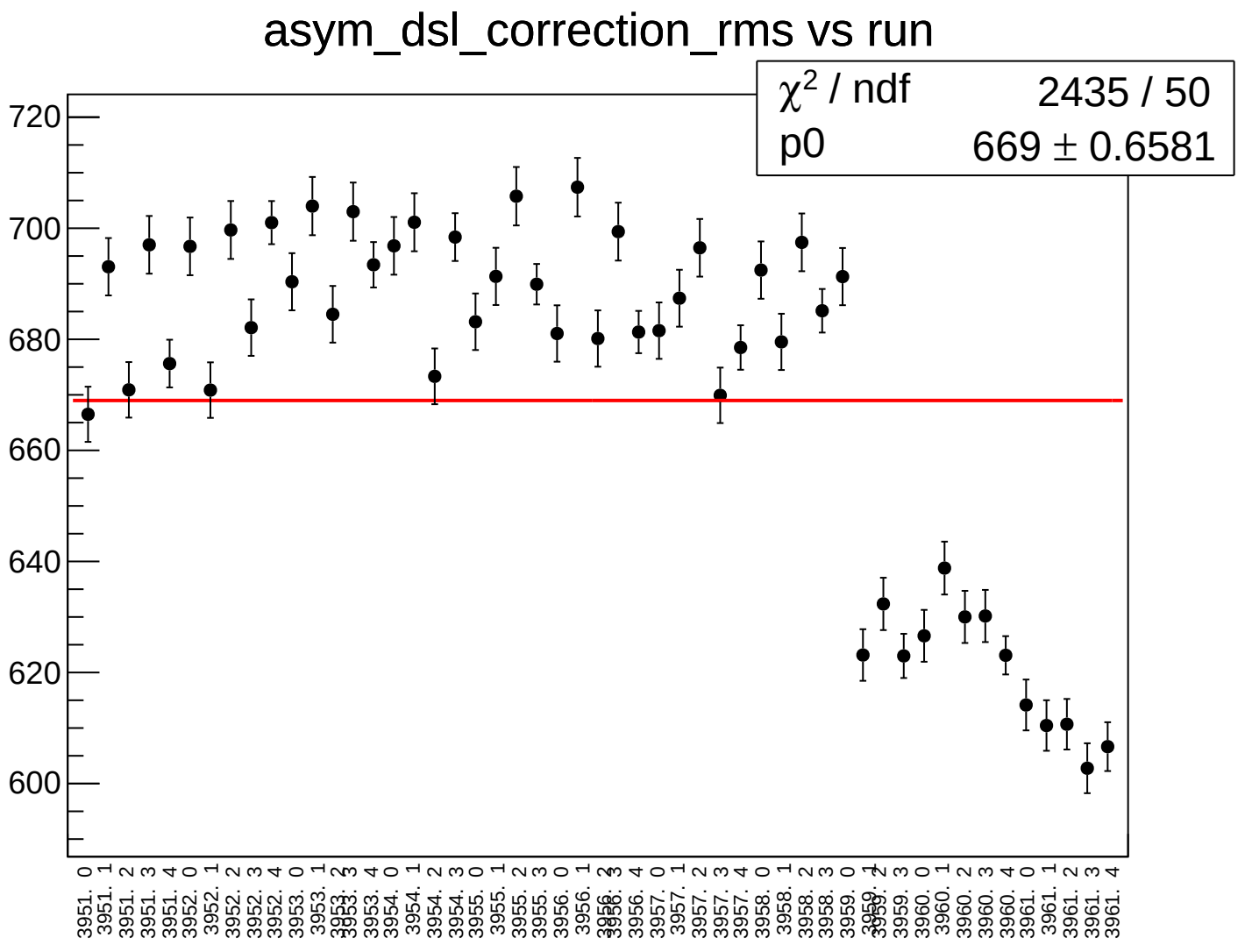
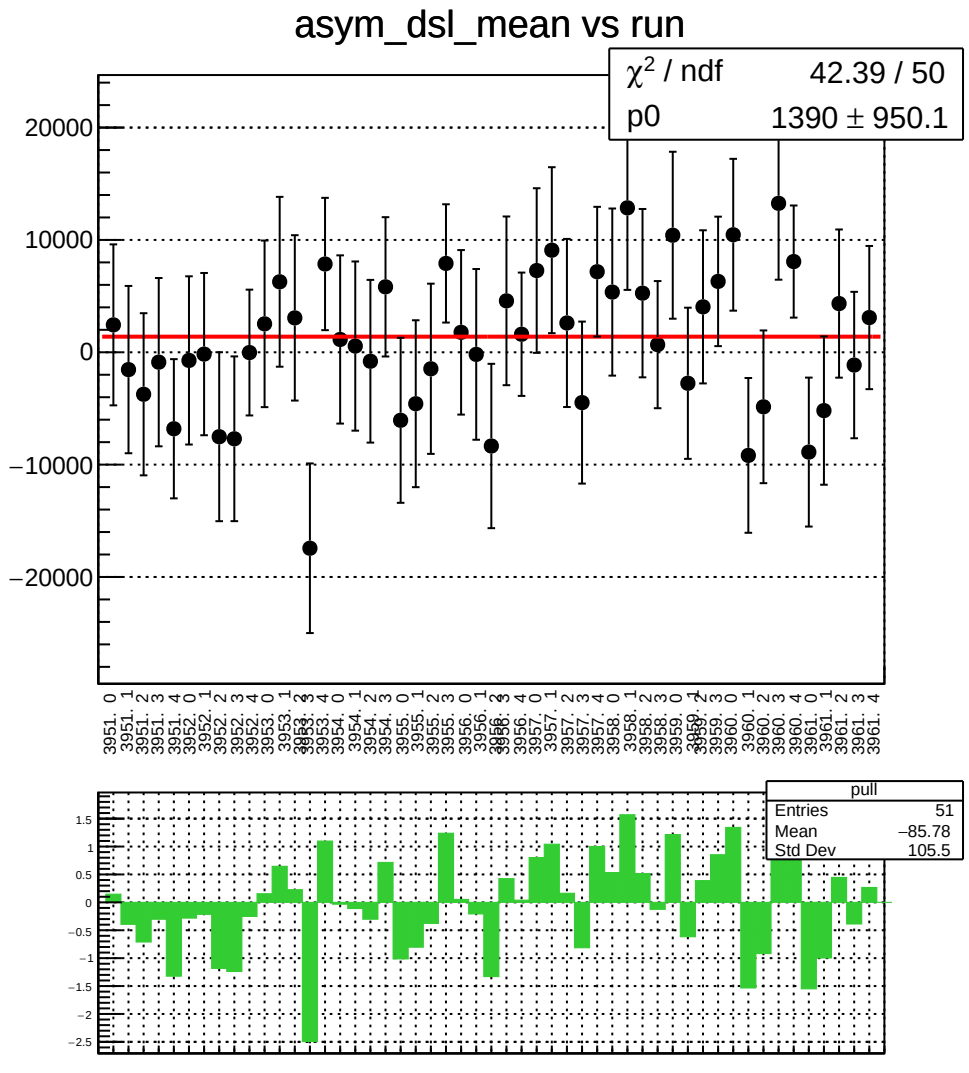
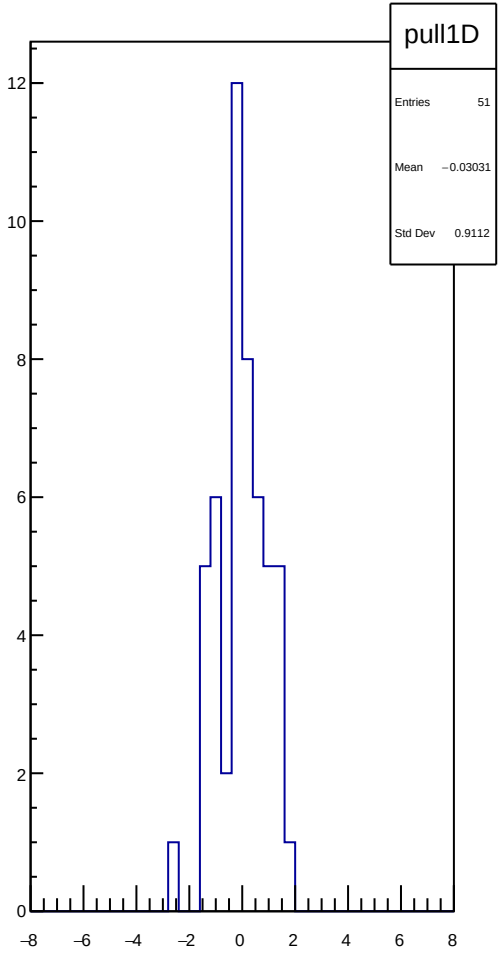
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

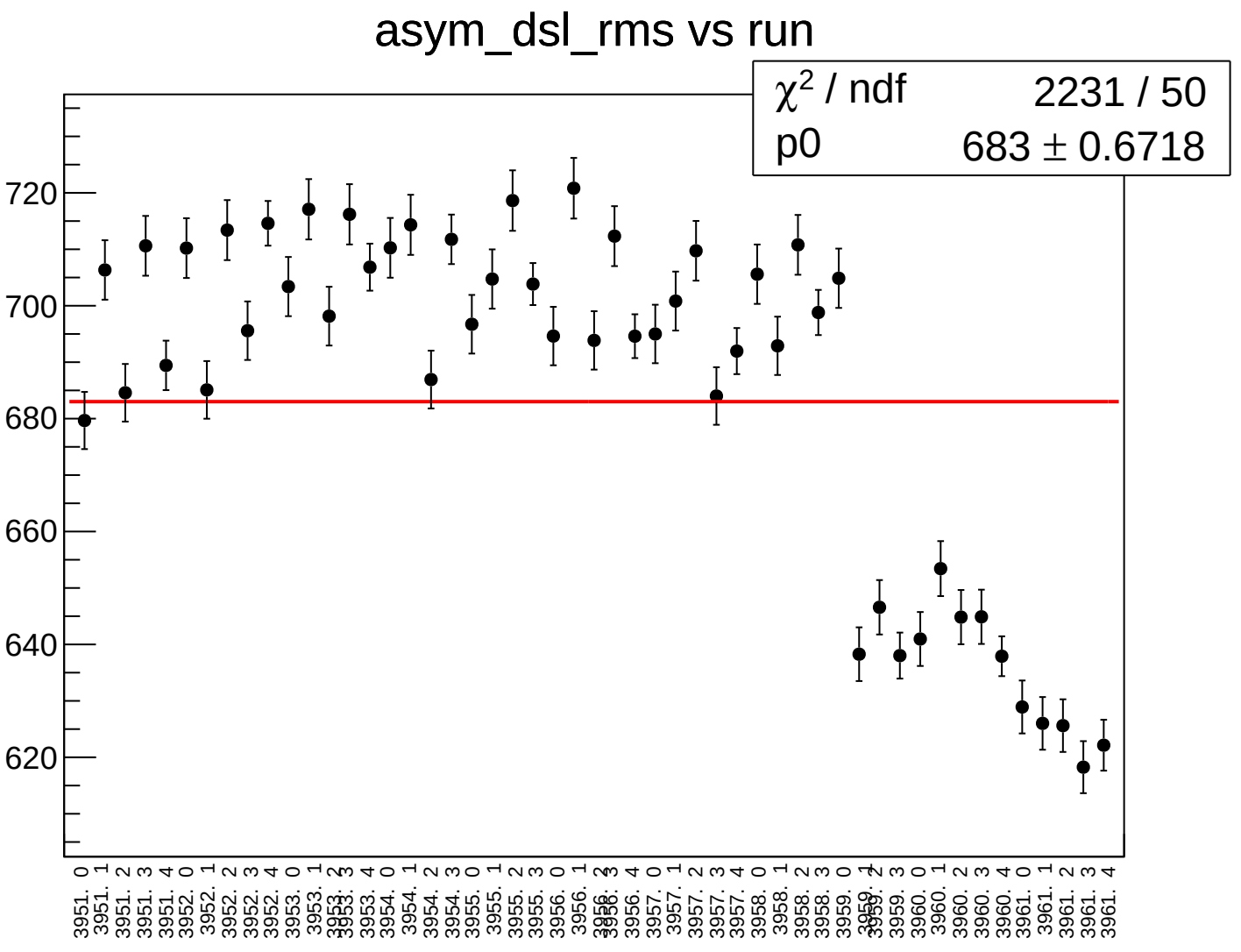

asym_dsl_correction_mean vs run
χ² / ndf 38.83 / 50
p0 −1033 ± 930.7
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −100.8
Std Dev 121.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

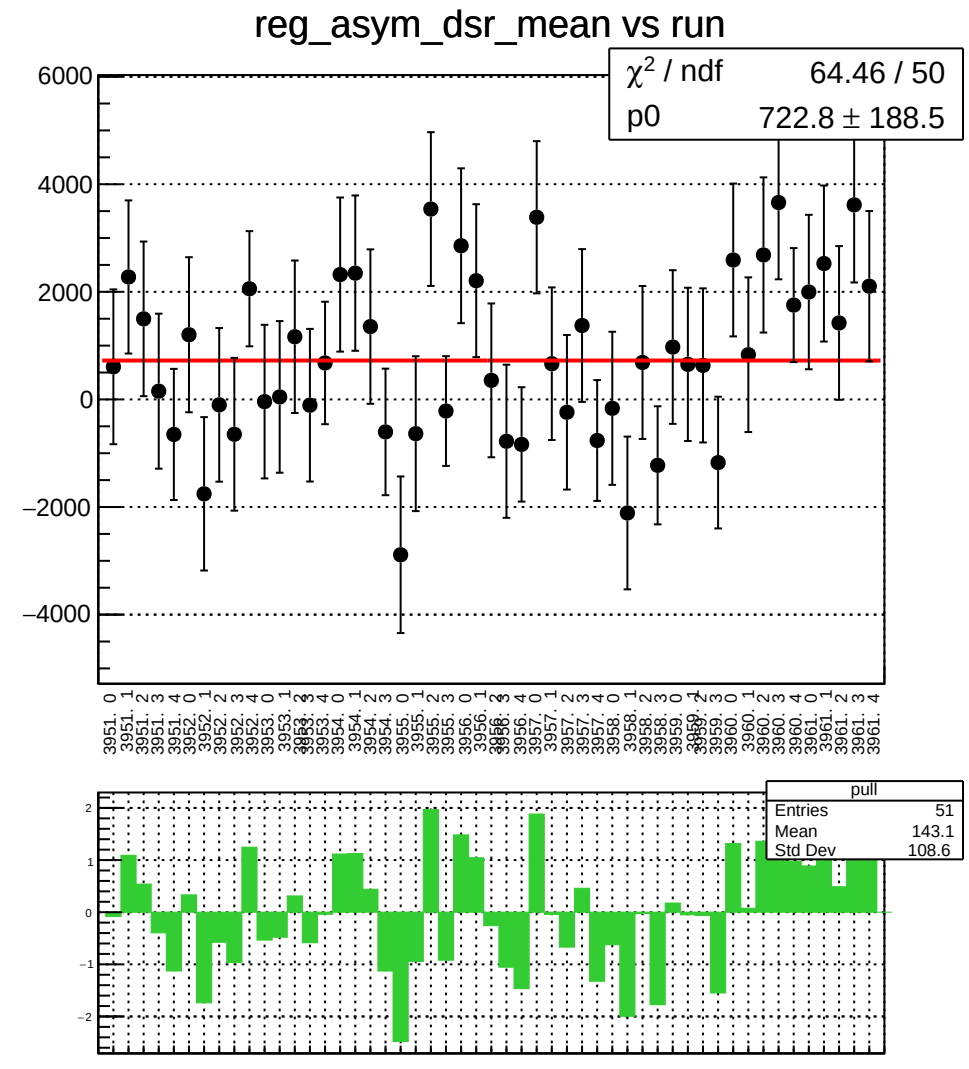

pull1D
Entries 51
Mean 0.03197
Std Dev 0.872
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

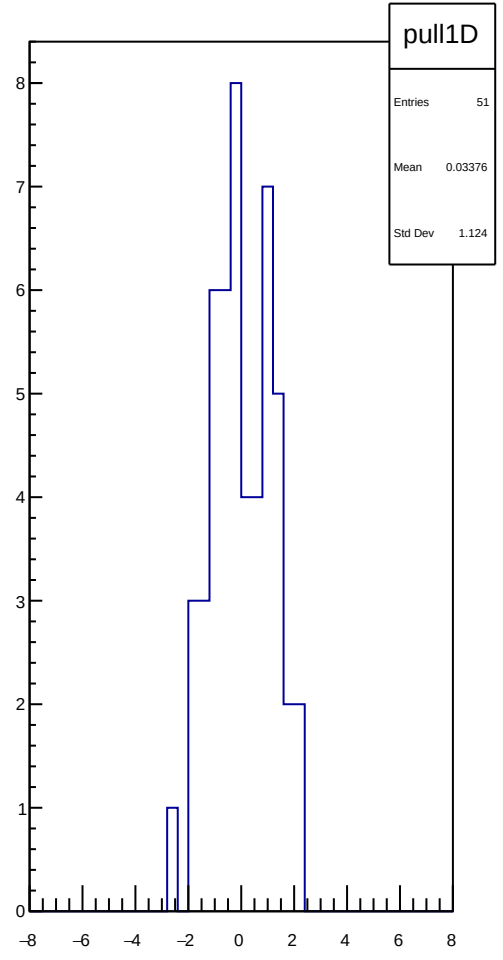

asym_dsl_correction_rms vs run
χ² / ndf 2435 / 50
p0 669 ± 0.6581
720
700
680
660
640
620
600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

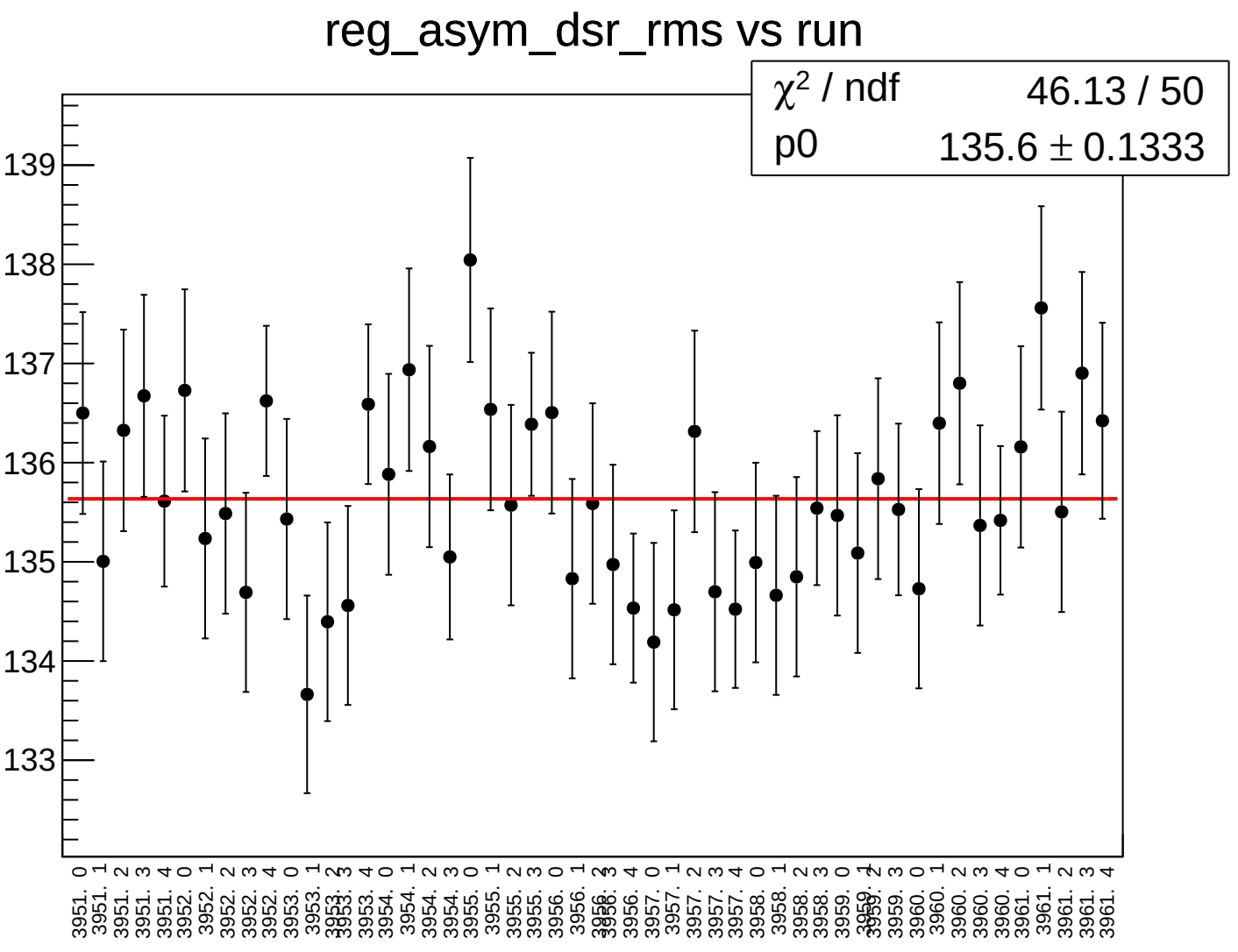

asym_dsl_mean vs run
χ² / ndf 42.39 / 50
p0 1390 ± 950.1
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −85.78
Std Dev 105.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.03031
Std Dev 0.9112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsl_rms vs run
χ^2 / ndf 2231 / 50
p0 683 ± 0.6718
720
700
680
660
640
620
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_dsr_mean vs run
χ^2 / ndf 64.46 / 50
p0 722.8 ± 188.5
pull
Entries 51
Mean 143.1
Std Dev 108.6


pull1D
Entries 51
Mean 0.03376
Std Dev 1.124


reg_asym_dsr_rms vs run
χ² / ndf 46.13 / 50
p0 135.6 ± 0.1333
139
138
137
136
135
134
133
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
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3956. 4
3957. 0
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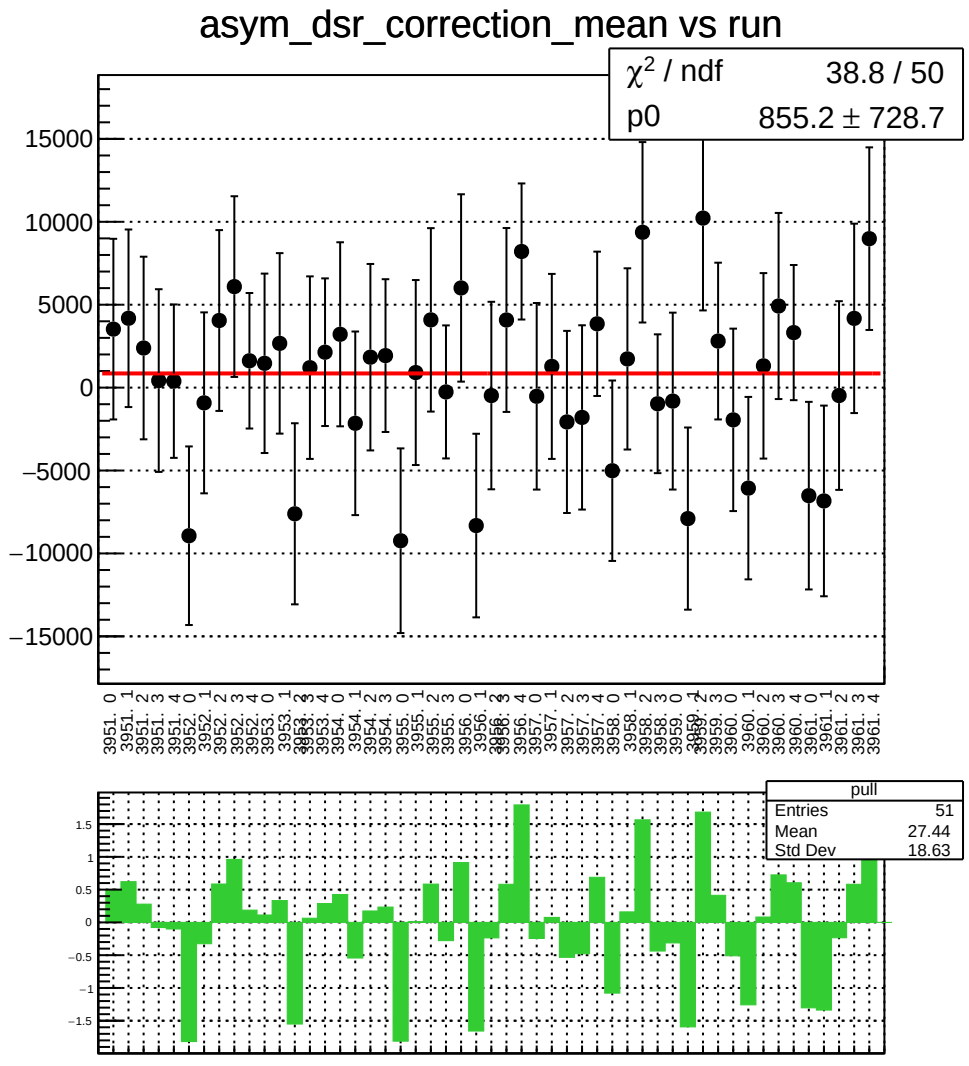
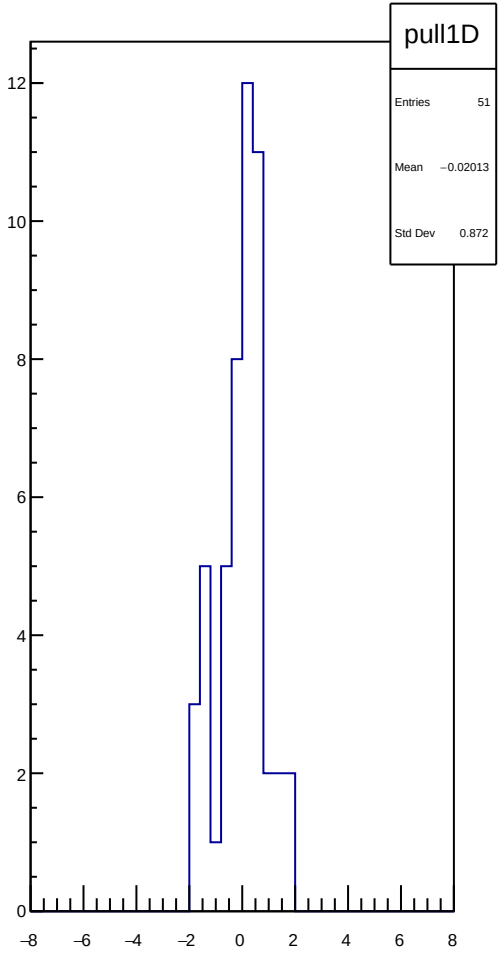
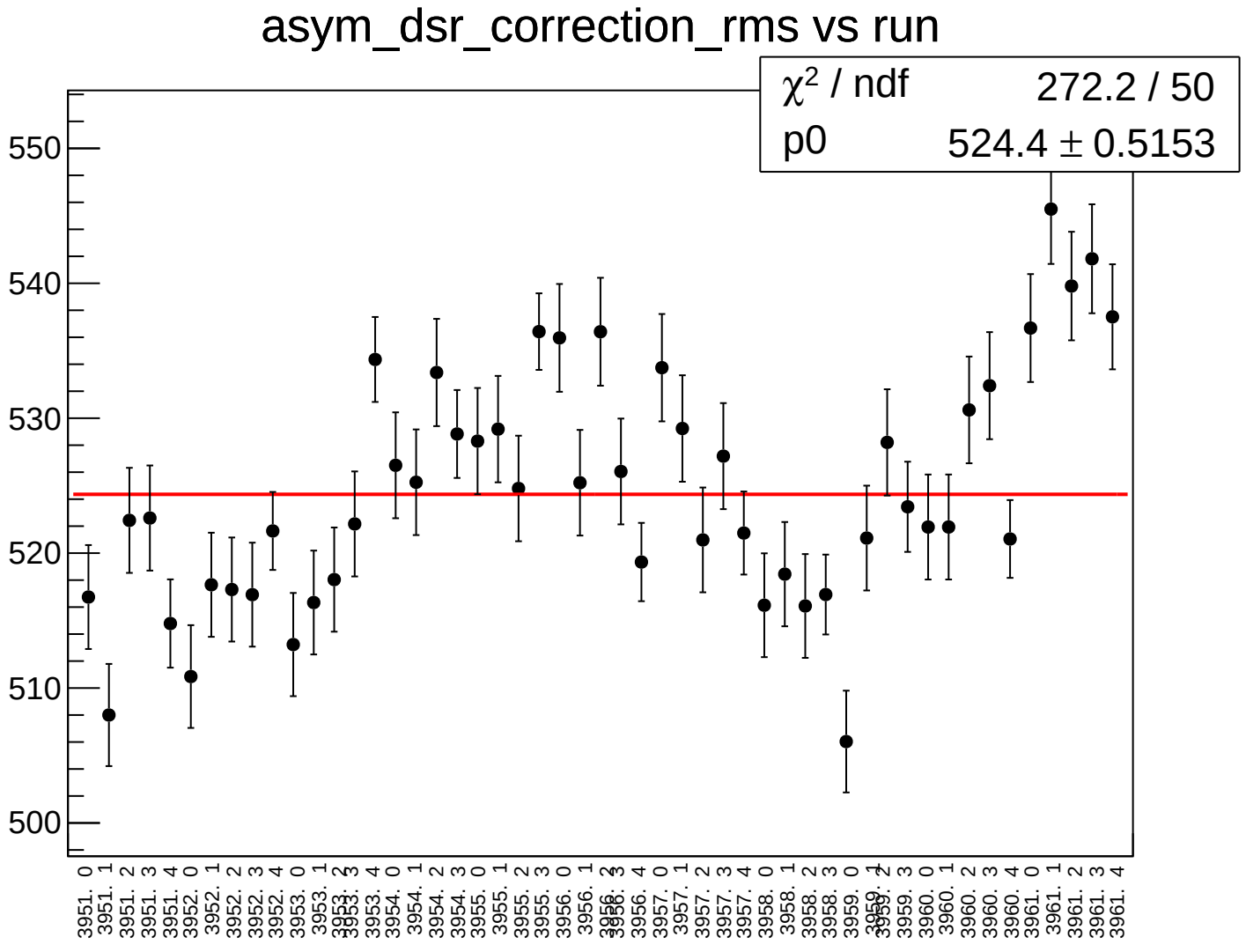
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_dsr_correction_mean vs run
χ² / ndf 38.8 / 50
p0 855.2 ± 728.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean 27.44
Std Dev 18.63
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean −0.02013
Std Dev 0.872
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_correction_rms vs run
χ² / ndf 272.2 / 50
p0 524.4 ± 0.5153
550
540
530
520
510
500
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
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3954. 1
3954. 2
3954. 3
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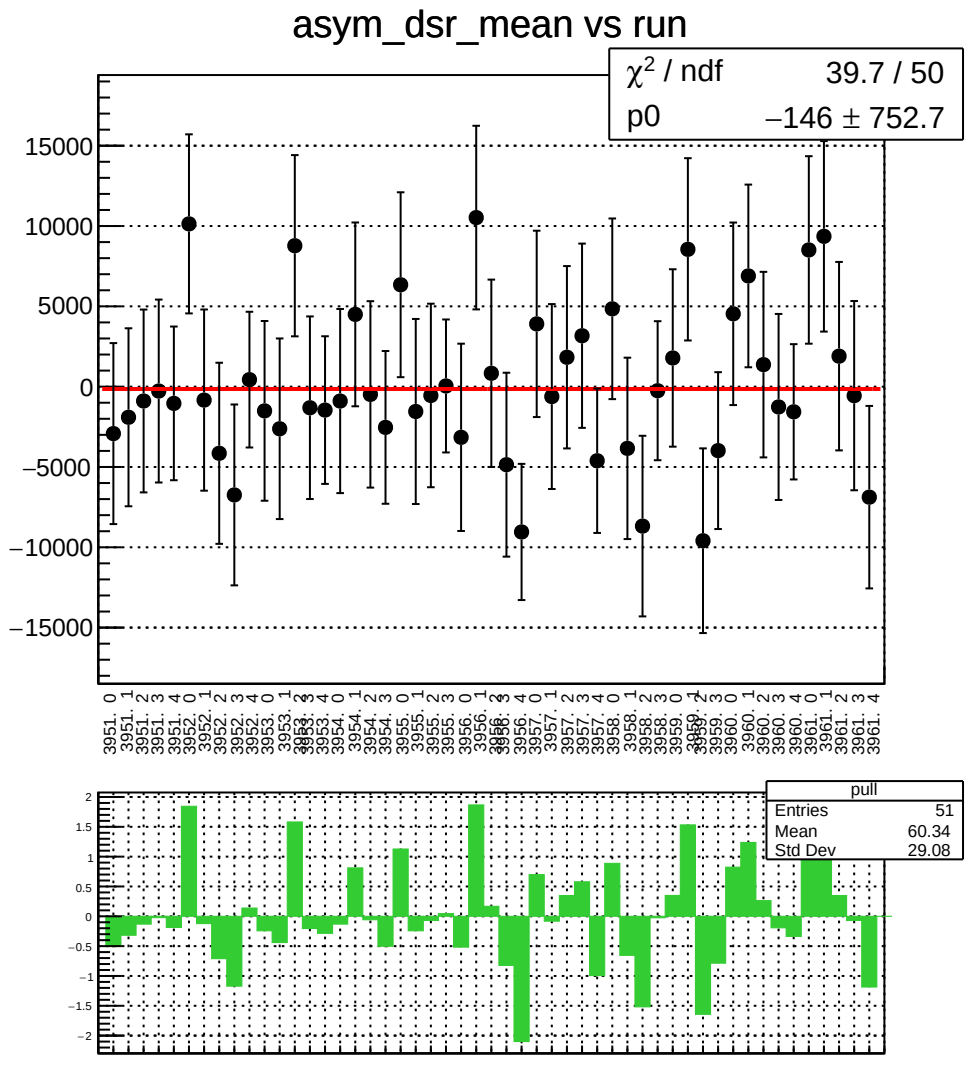
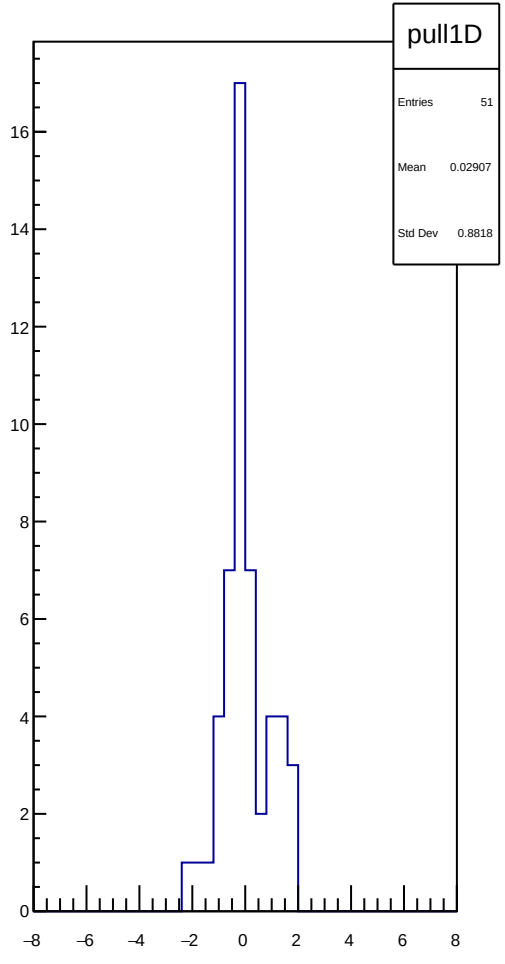
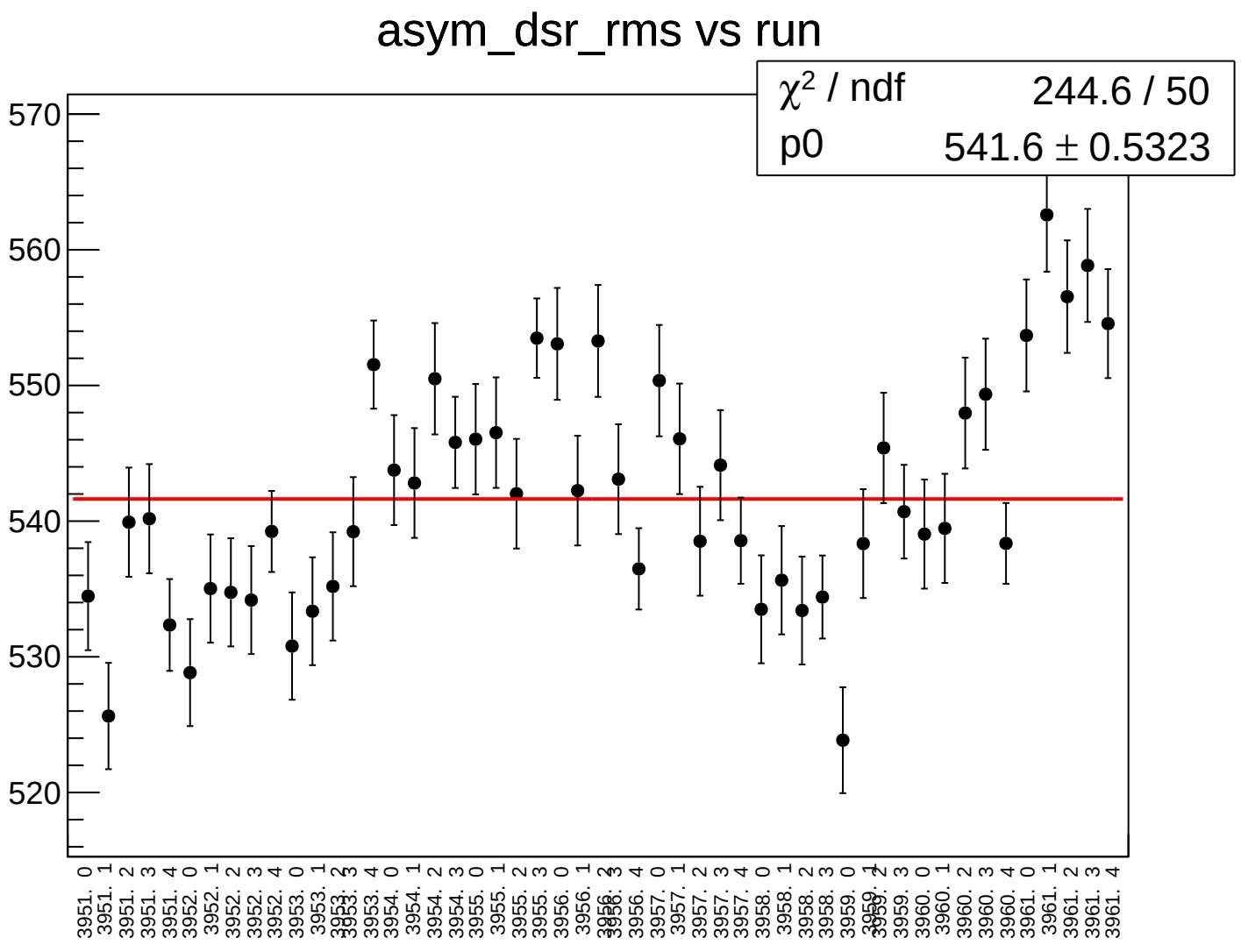
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_dsr_mean vs run
χ² / ndf 39.7 / 50
p0 −146 ± 752.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean 60.34
Std Dev 29.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.02907
Std Dev 0.8818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_rms vs run
χ² / ndf 244.6 / 50
p0 541.6 ± 0.5323
570
560
550
540
530
520
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
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3957. 2
3957. 3
3957. 4
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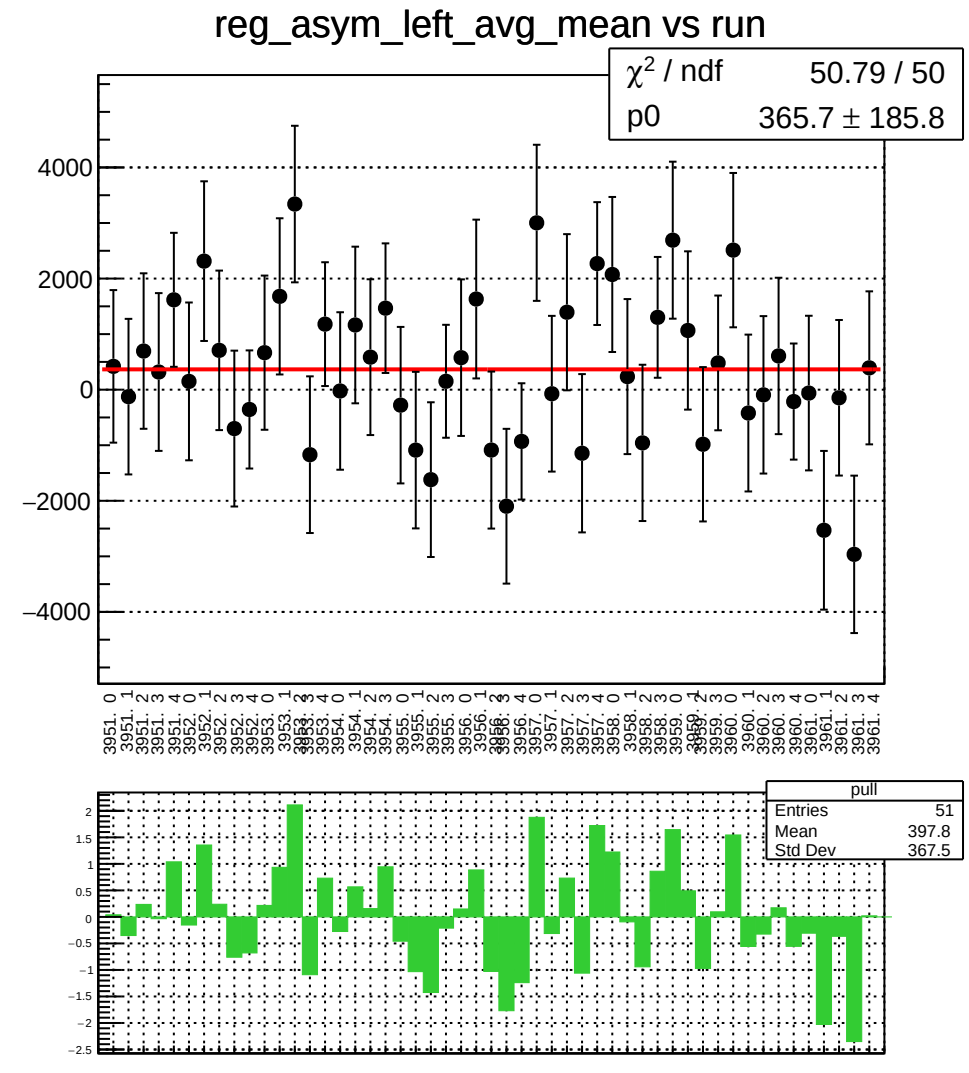
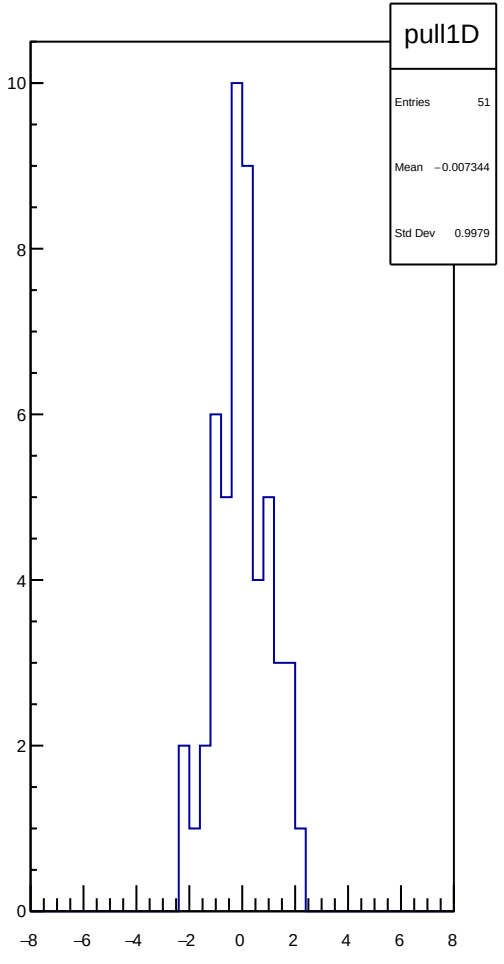
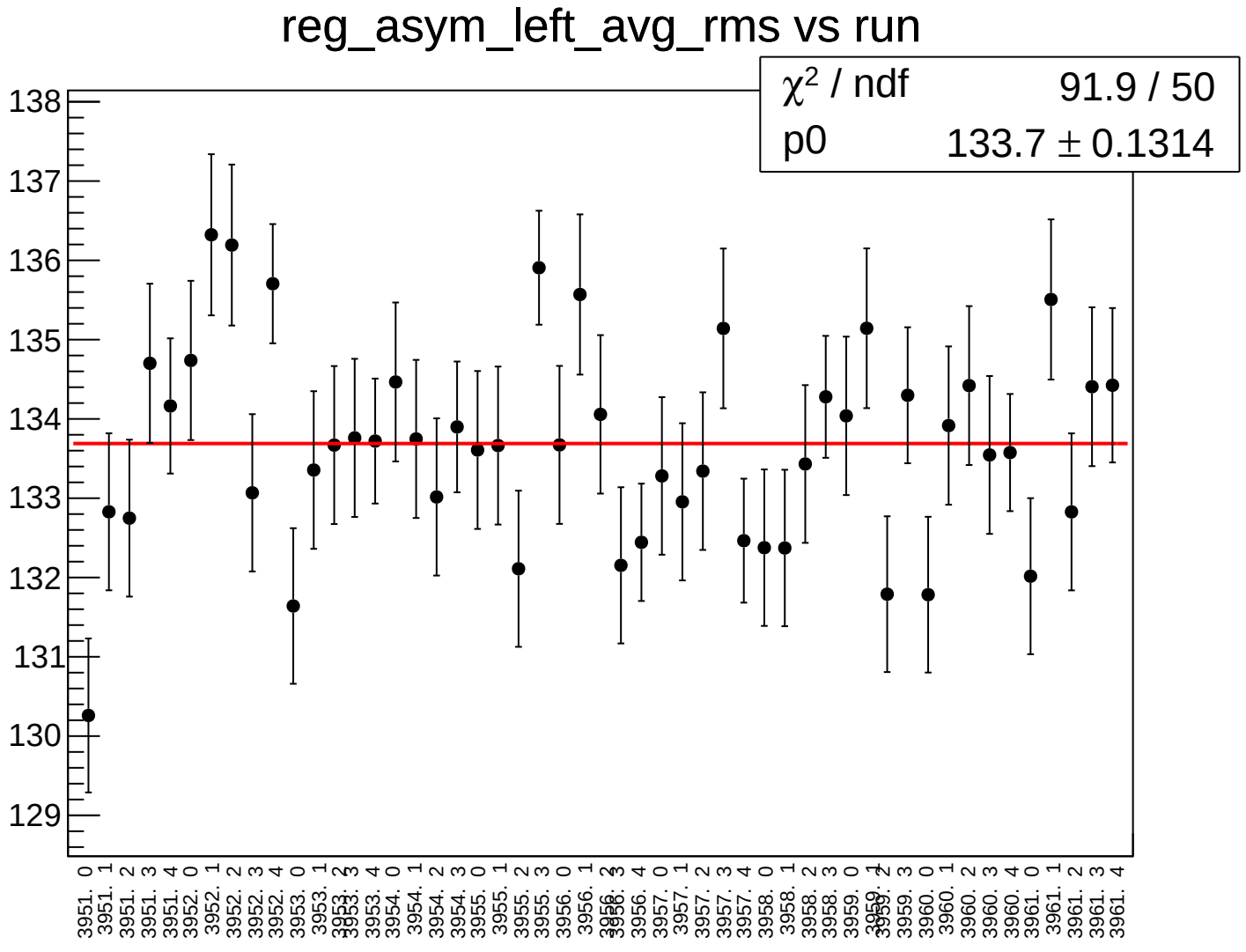
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_left_avg_mean vs run
χ² / ndf 50.79 / 50
p0 365.7 ± 185.8
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 397.8
Std Dev 367.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.007344
Std Dev 0.9979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_left_avg_rms vs run
χ^2 / ndf 91.9 / 50
p0 133.7 ± 0.1314
138
137
136
135
134
133
132
131
130
129
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
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3954. 2
3954. 3
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3955. 2
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3957. 4
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3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
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3960. 3
3960. 4
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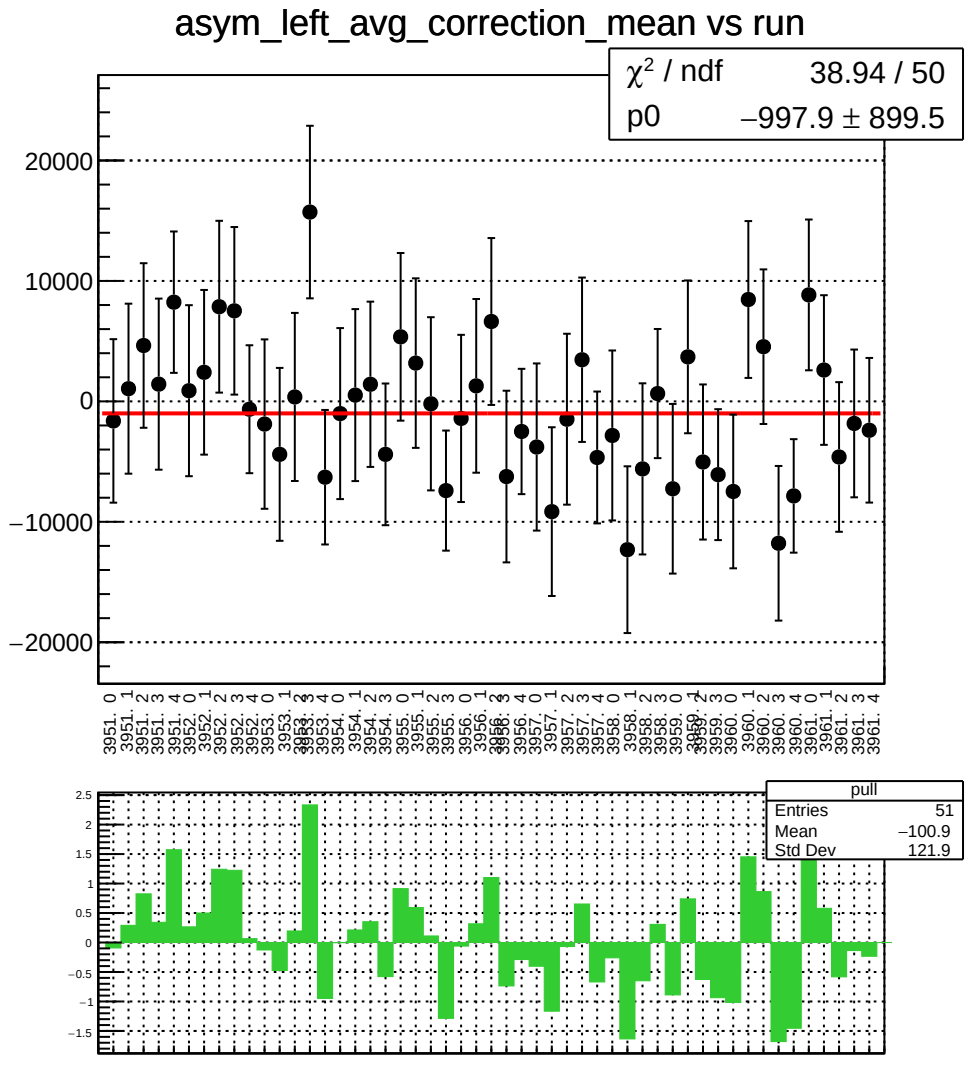
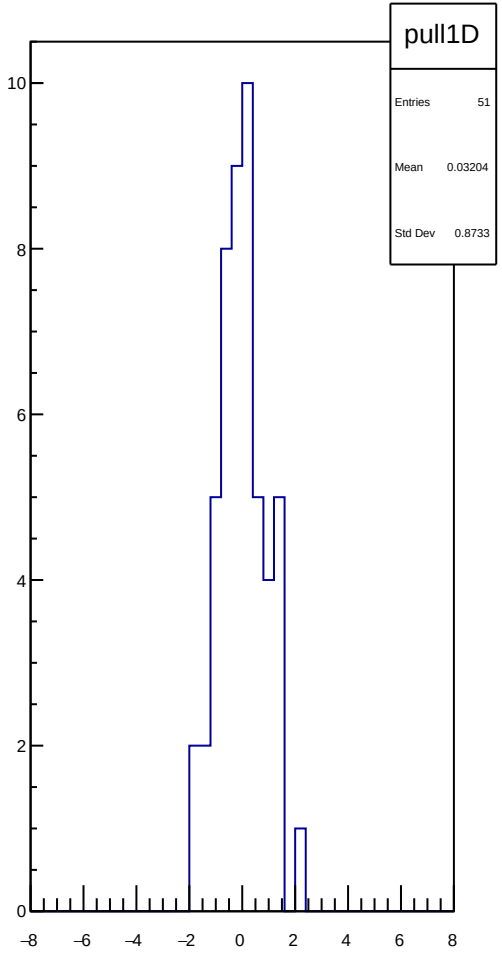
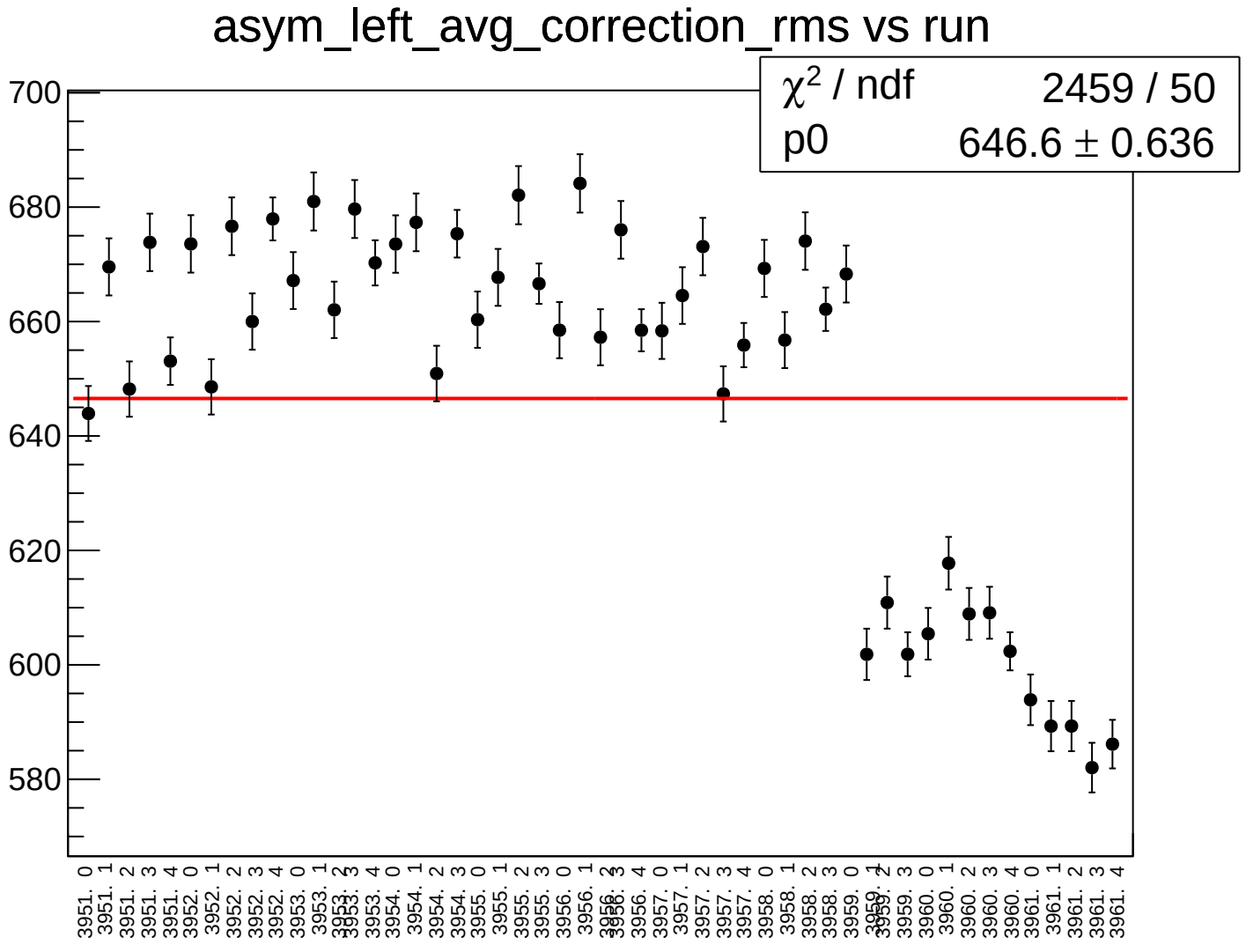
3961. 1
3961. 2
3961. 3
3961. 4


asym_left_avg_correction_mean vs run
χ² / ndf 38.94 / 50
p0 −997.9 ± 899.5
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −100.9
Std Dev 121.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.03204
Std Dev 0.8733
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_correction_rms vs run
χ² / ndf 2459 / 50
p0 646.6 ± 0.636
700
680
660
640
620
600
580
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
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3953. 0
3953. 1
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3954. 2
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3956. 2
3956. 3
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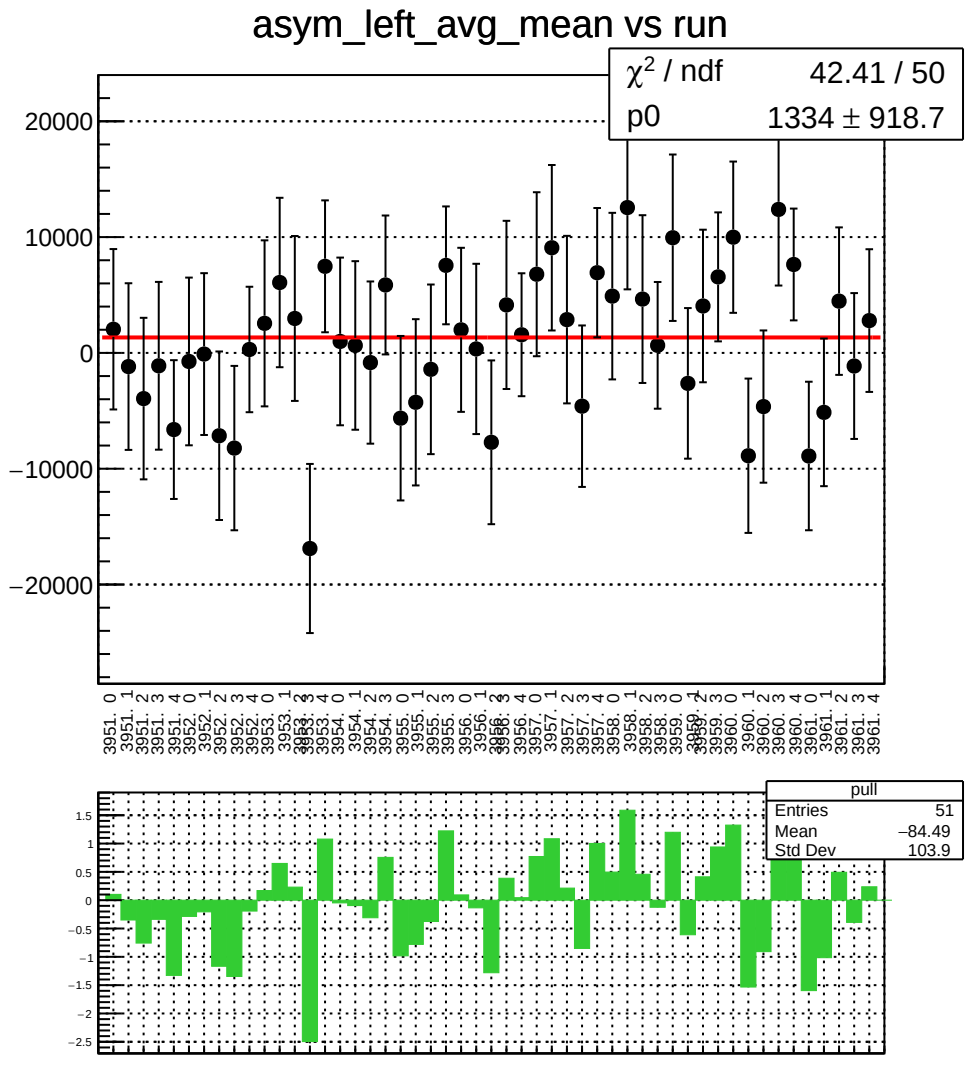
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_left_avg_mean vs run
χ² / ndf 42.41 / 50
p0 1334 ± 918.7
20000
10000
0
−10000
−20000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
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3959. 1
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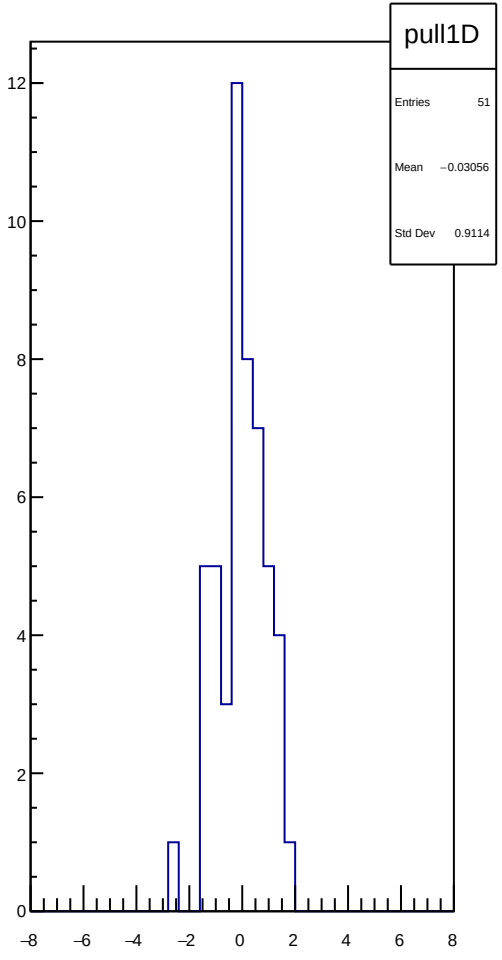
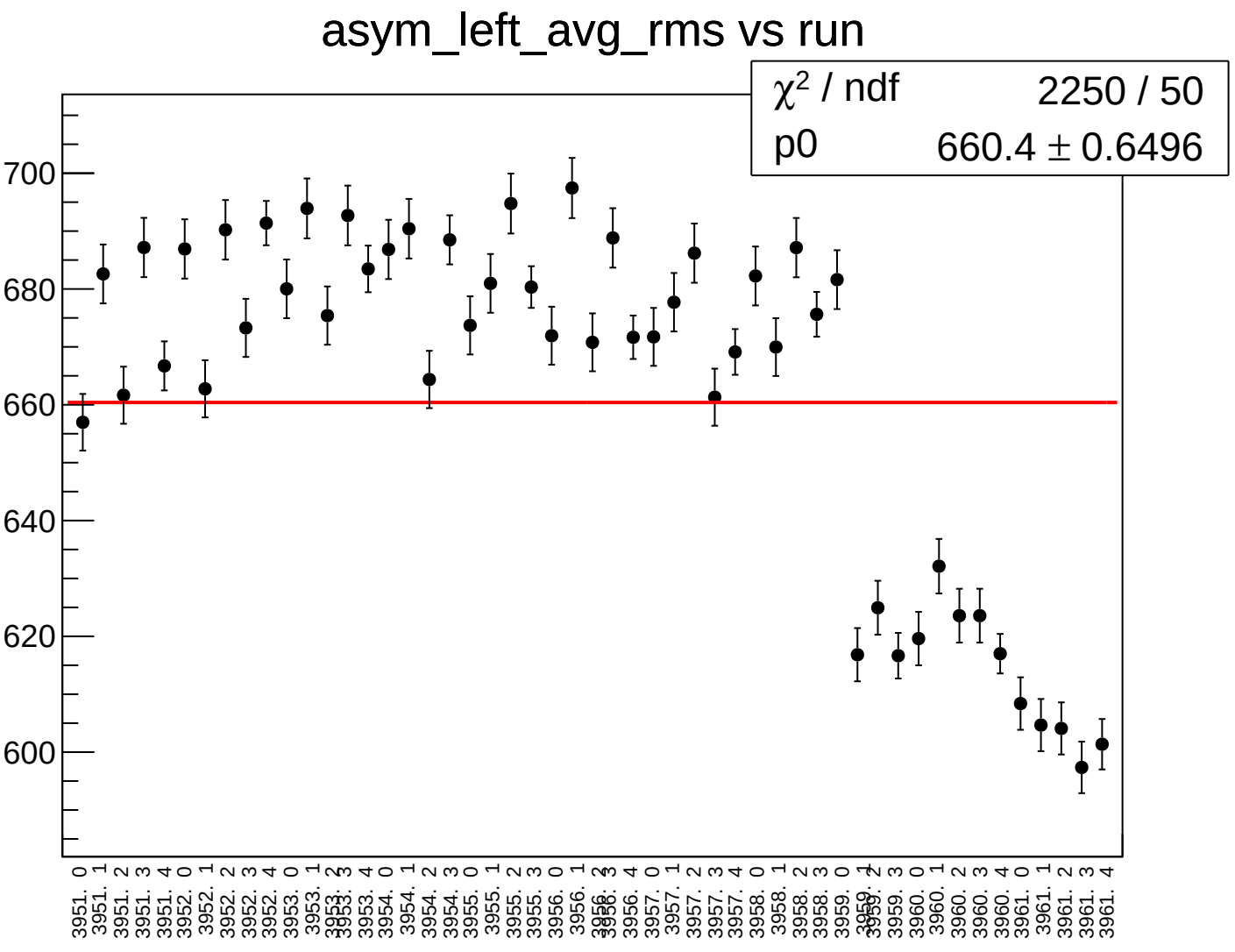
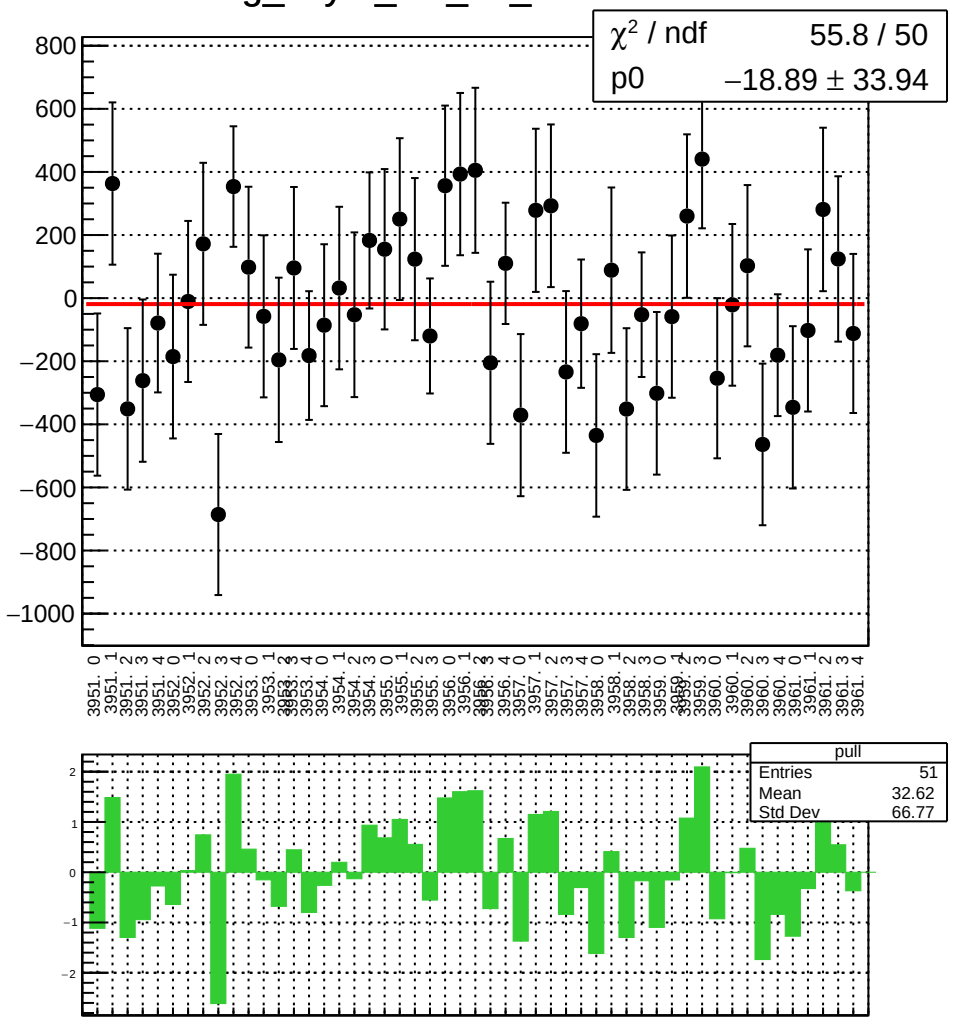
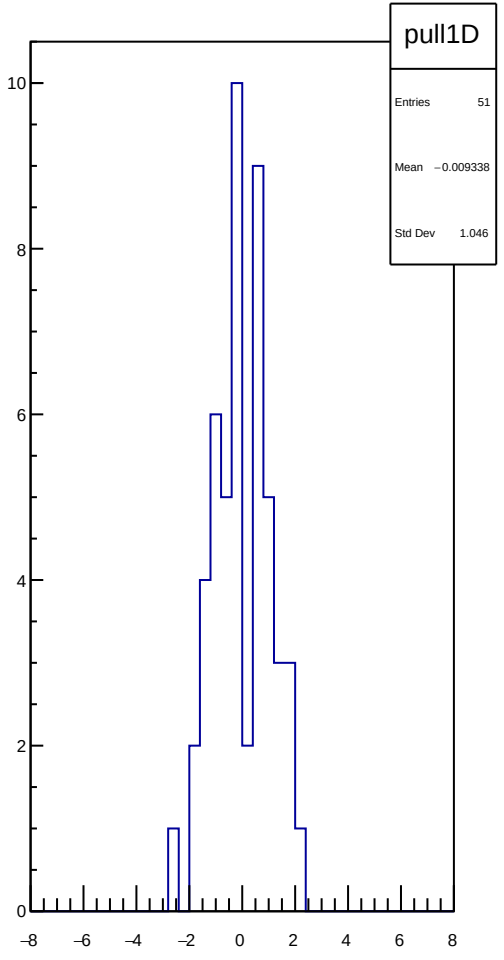
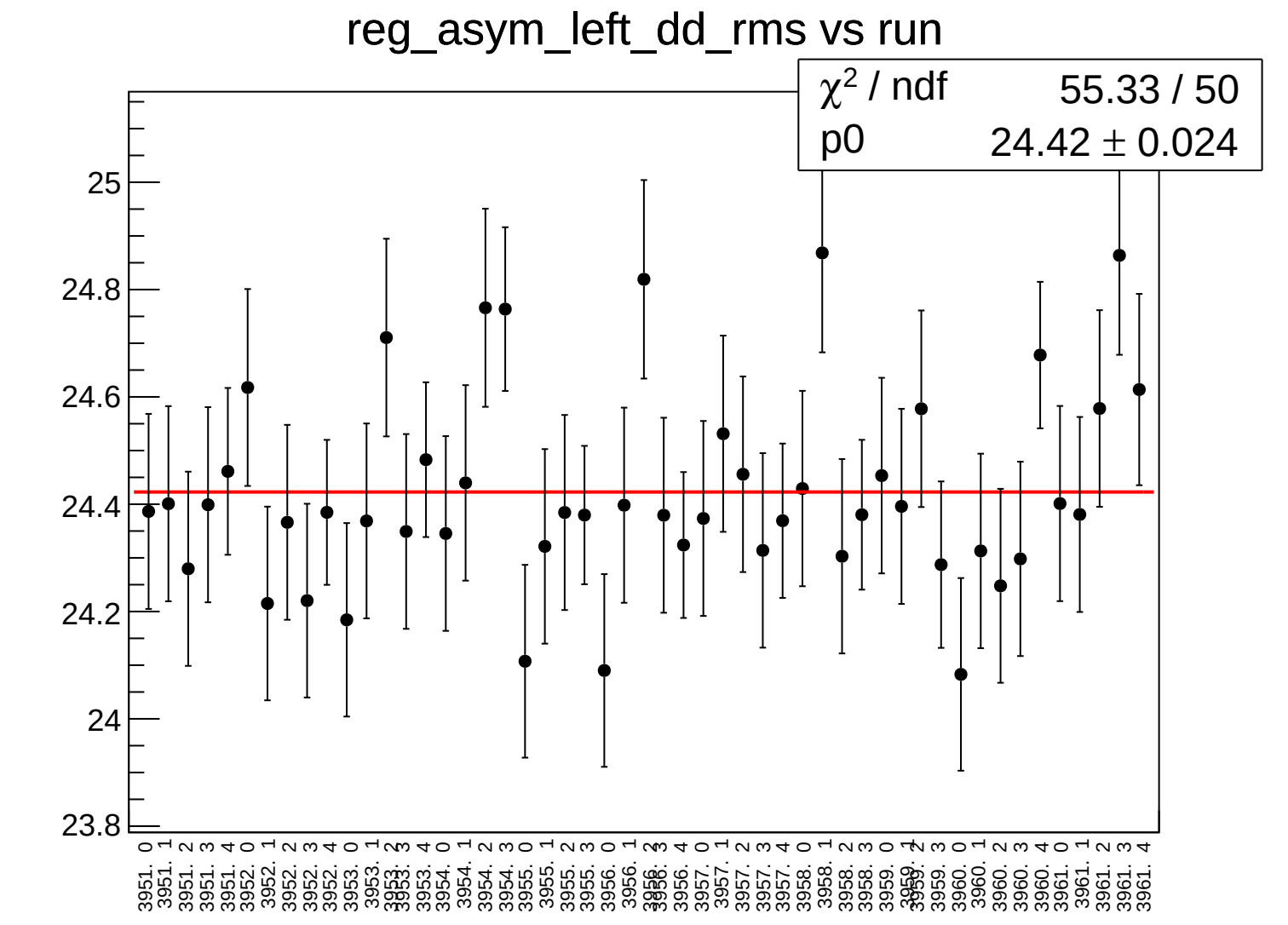
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4
pull
Entries 51
Mean −84.49
Std Dev 103.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

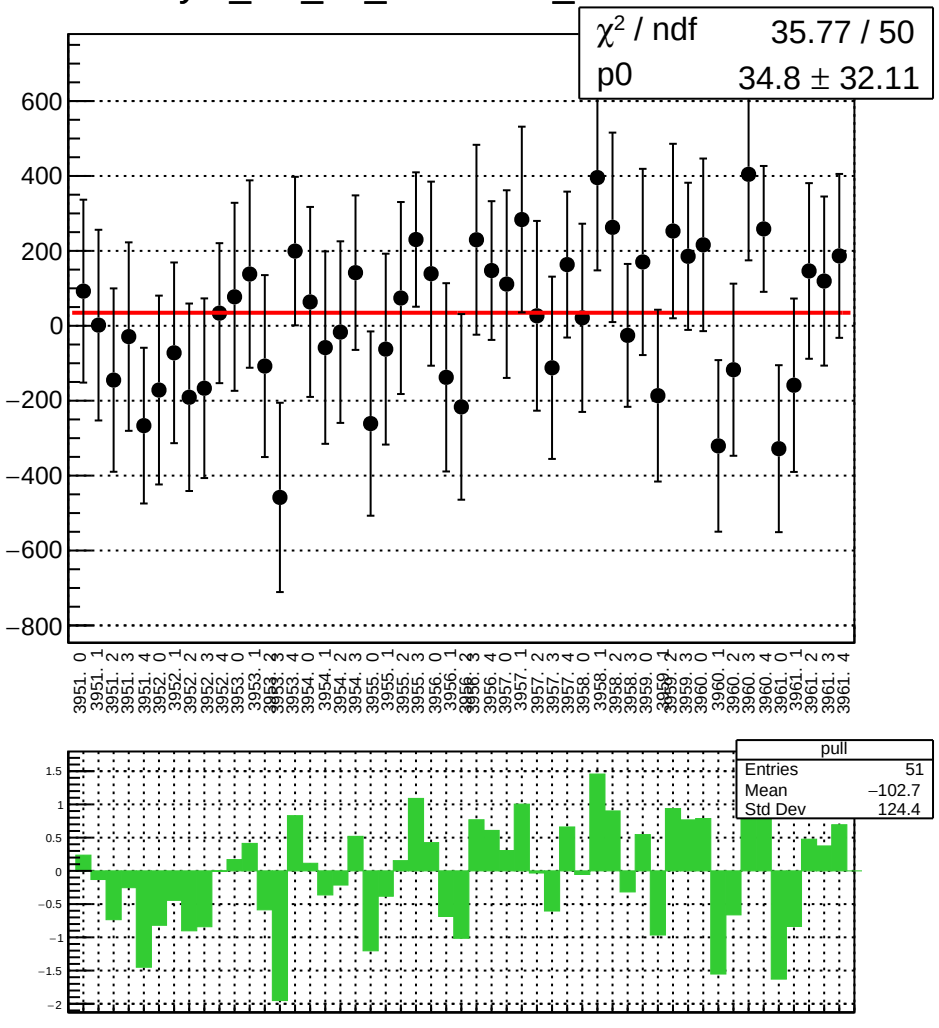

pull1D
Entries 51
Mean −0.03056
Std Dev 0.9114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

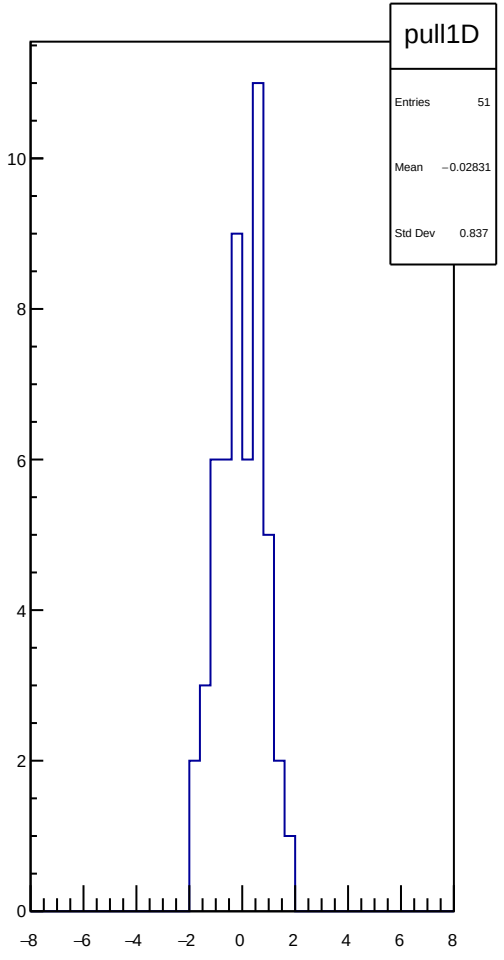

asym_left_avg_rms vs run
χ² / ndf 2250 / 50
p0 660.4 ± 0.6496
700
680
660
640
620
600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

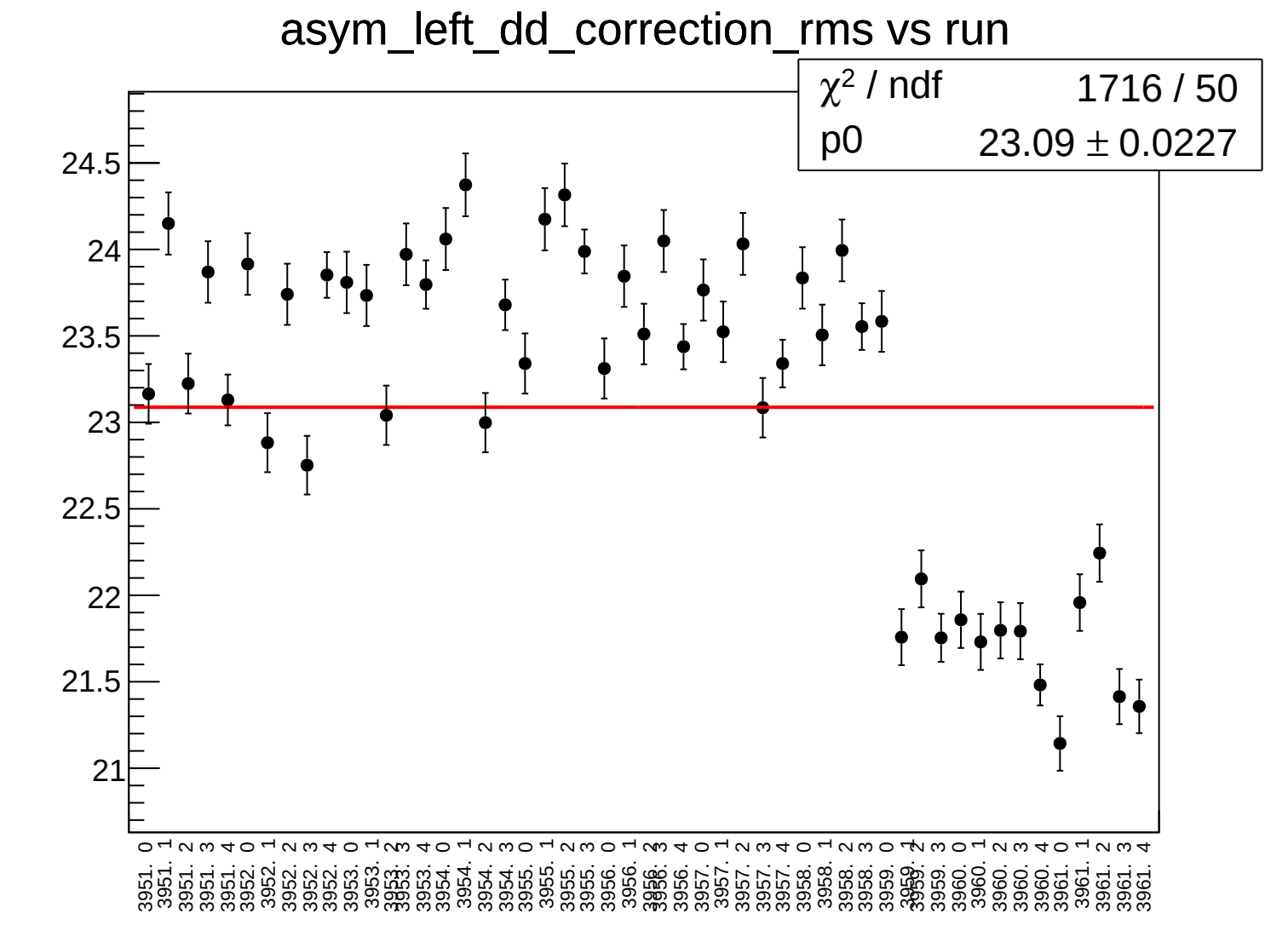

reg_asym_left_dd_mean vs run
χ² / ndf 55.8 / 50
p0 −18.89 ± 33.94
pull
Entries 51
Mean 32.62
Std Dev 66.77

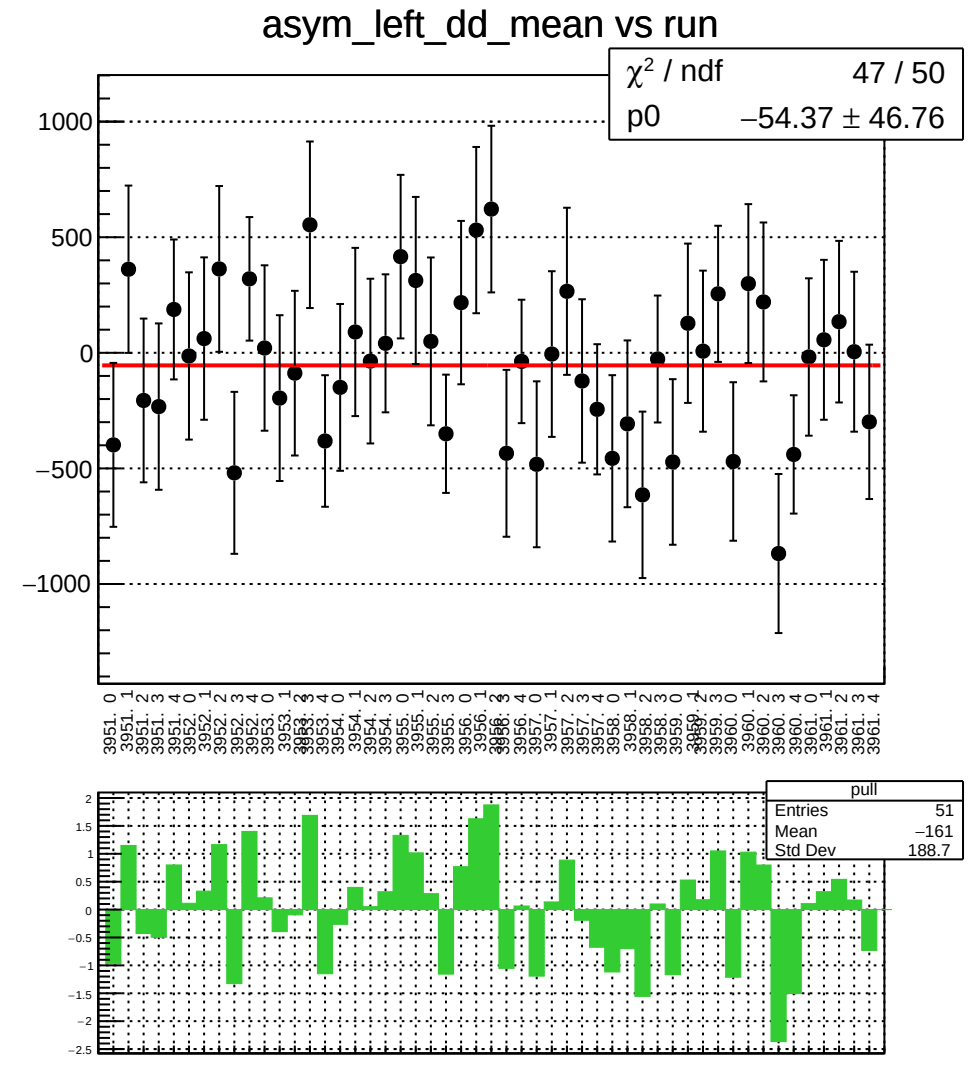

pull1D
Entries 51
Mean −0.009338
Std Dev 1.046

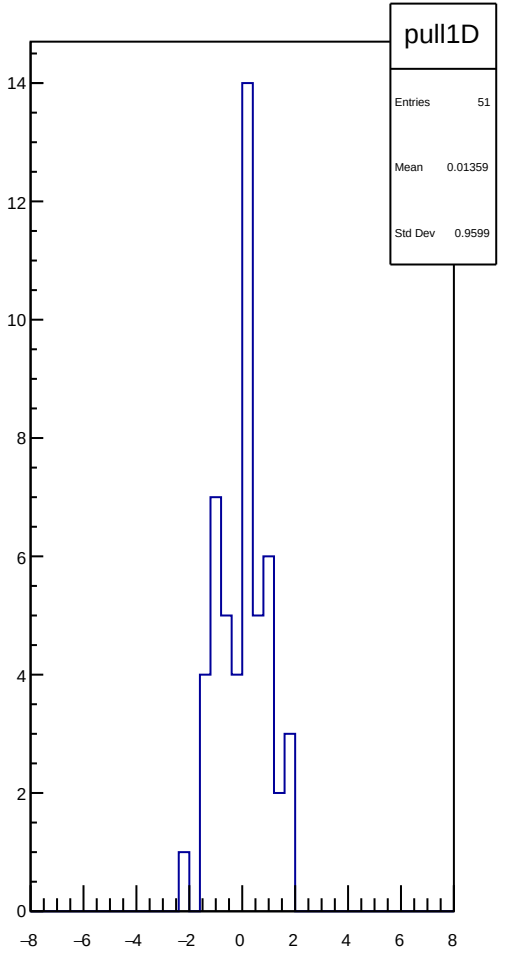

reg_asym_left_dd_rms vs run
χ² / ndf 55.33 / 50
p0 24.42 ± 0.024
25
24.8
24.6
24.4
24.2
24
23.8
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

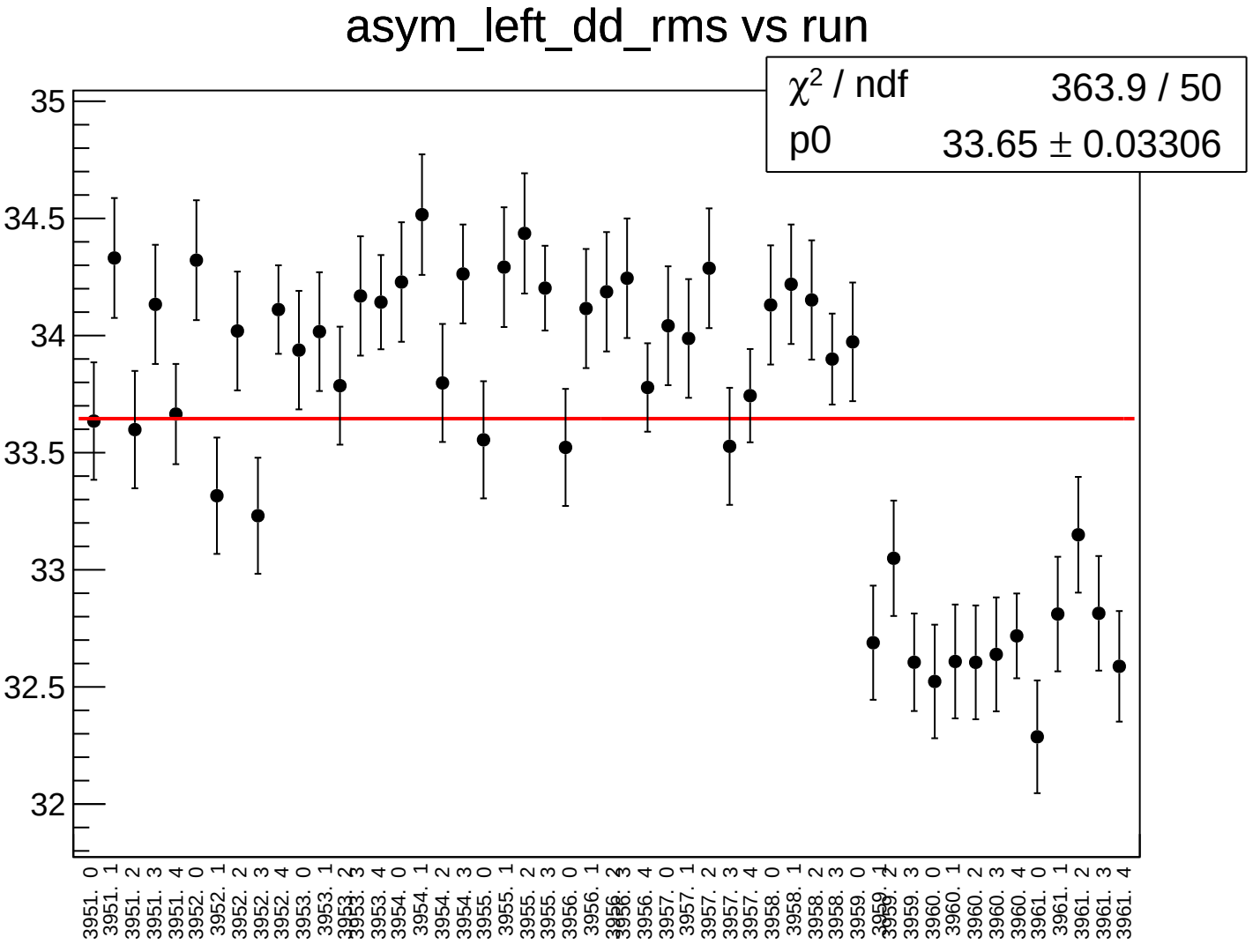

asym_left_dd_correction_mean vs run
χ² / ndf 35.77 / 50
p0 34.8 ± 32.11
pull
Entries 51
Mean −102.7
Std Dev 124.4

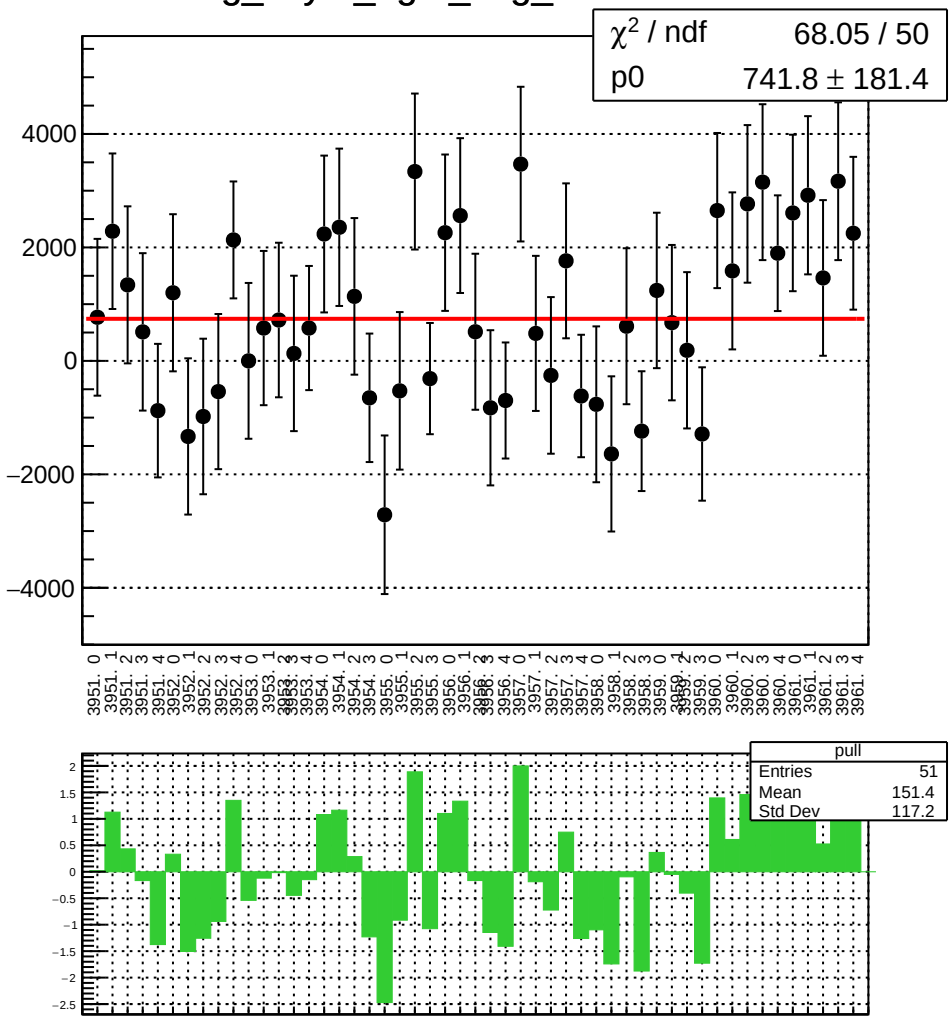

pull1D
Entries 51
Mean −0.02831
Std Dev 0.837

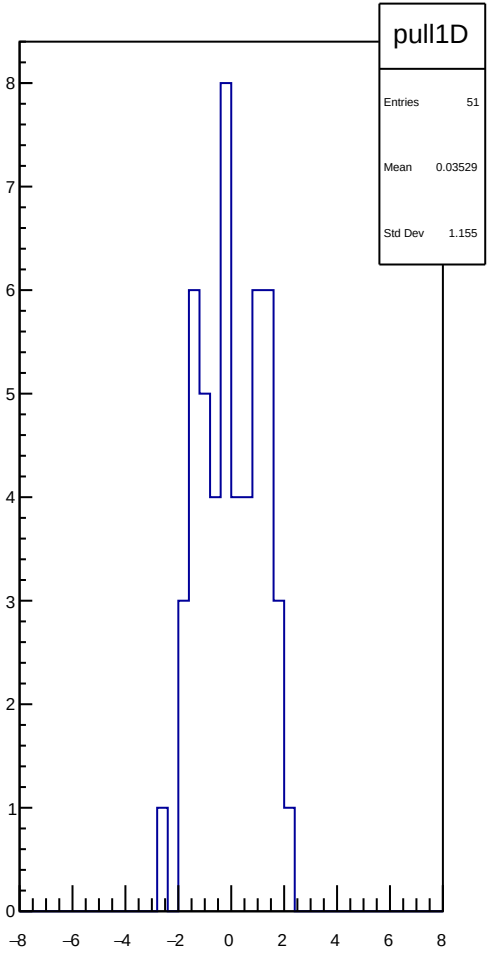

asym_left_dd_correction_rms vs run
χ² / ndf 1716 / 50
p0 23.09 ± 0.0227
24.5
24
23.5
23
22.5
22
21.5
21

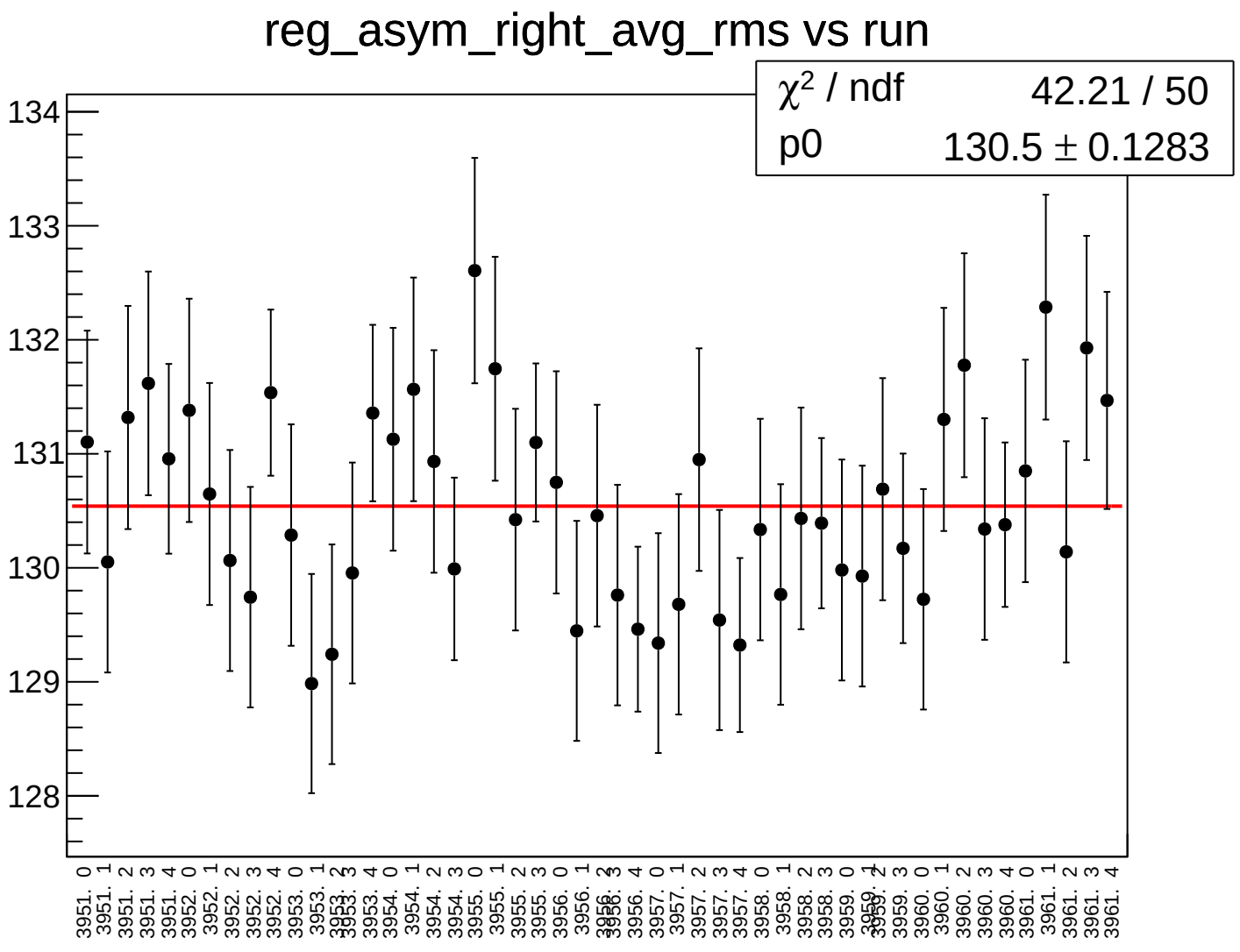

asym_left_dd_mean vs run
χ² / ndf 47 / 50
p0 −54.37 ± 46.76
1000
500
0
−500
−1000
pull
Entries 51
Mean −161
Std Dev 188.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

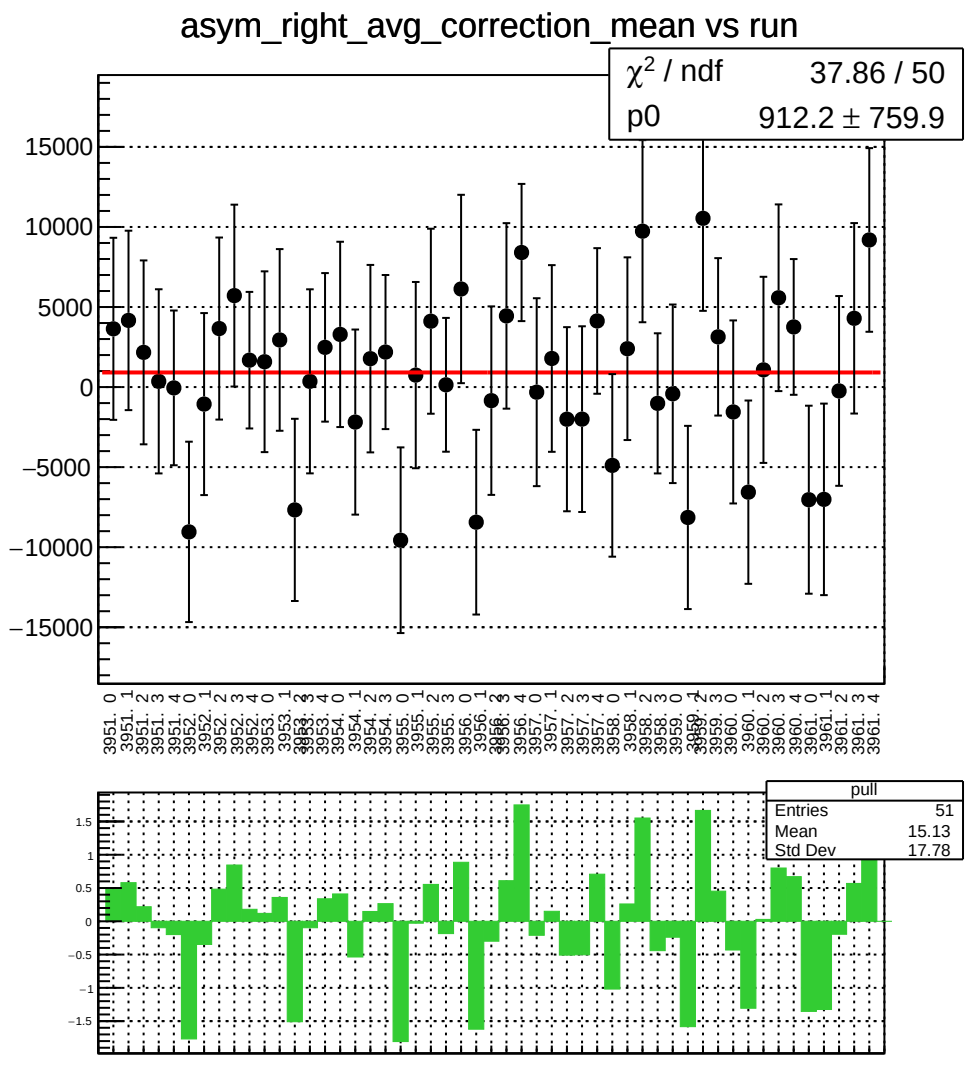

pull1D
Entries 51
Mean 0.01359
Std Dev 0.9599
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

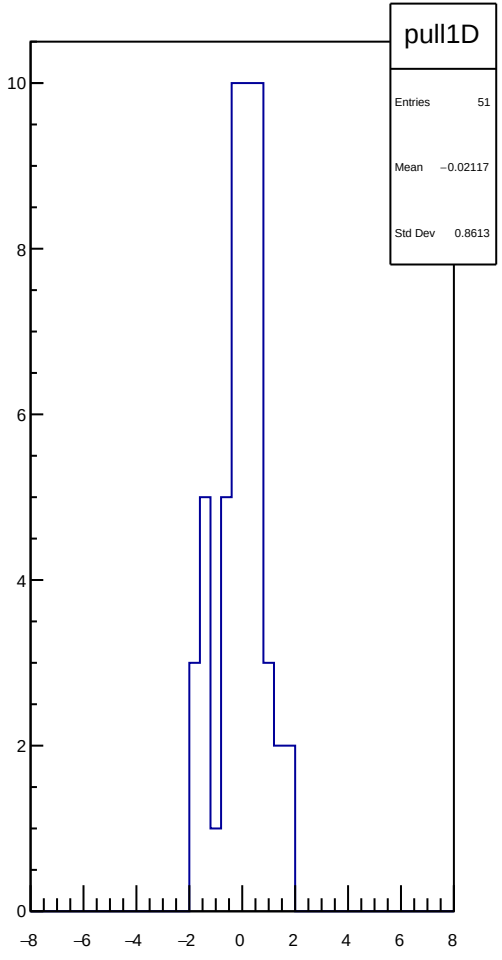

asym_left_dd_rms vs run
χ² / ndf 363.9 / 50
p0 33.65 ± 0.03306
35
34.5
34
33.5
33
32.5
32
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

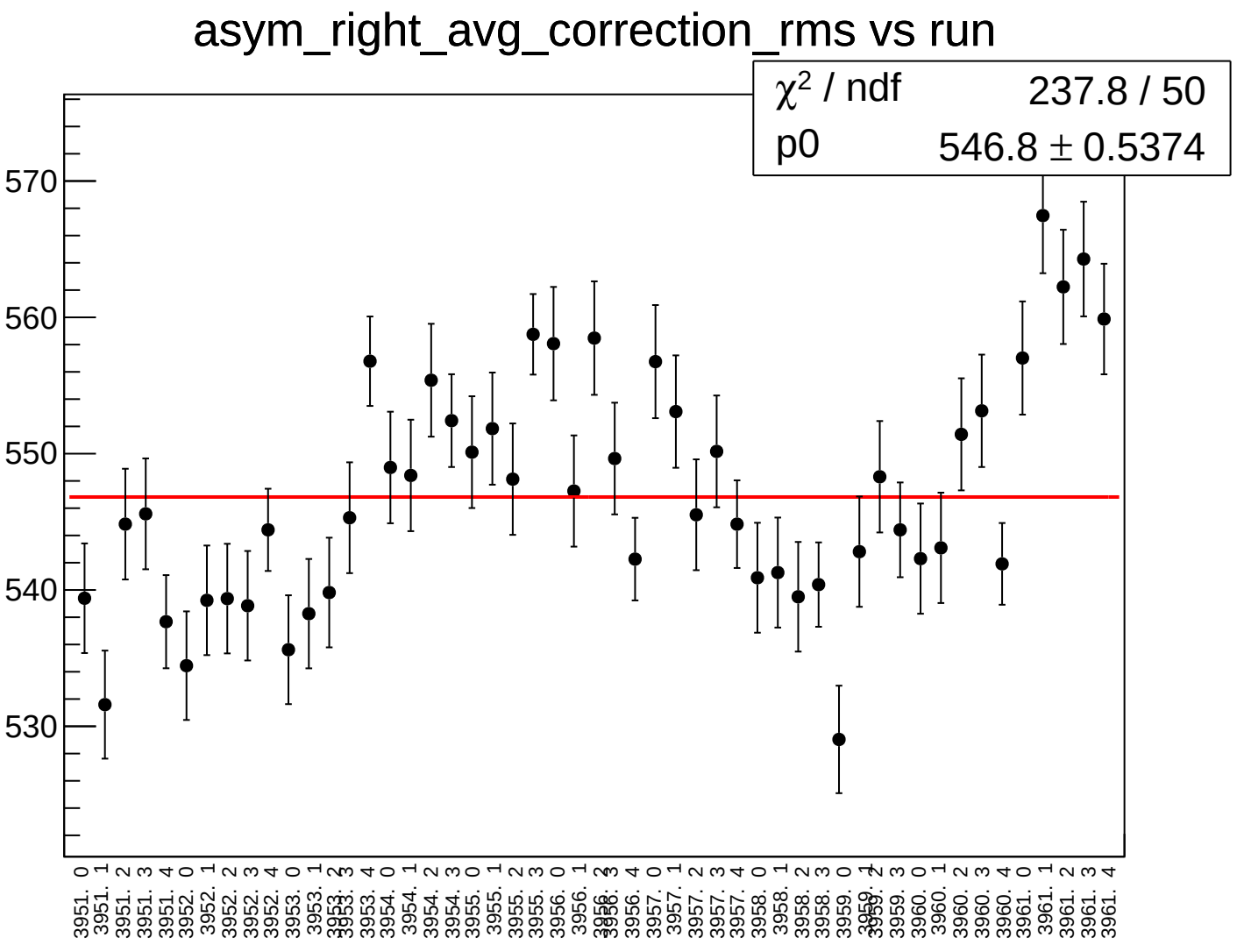

reg_asym_right_avg_mean vs run
χ² / ndf 68.05 / 50
p0 741.8 ± 181.4
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 151.4
Std Dev 117.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

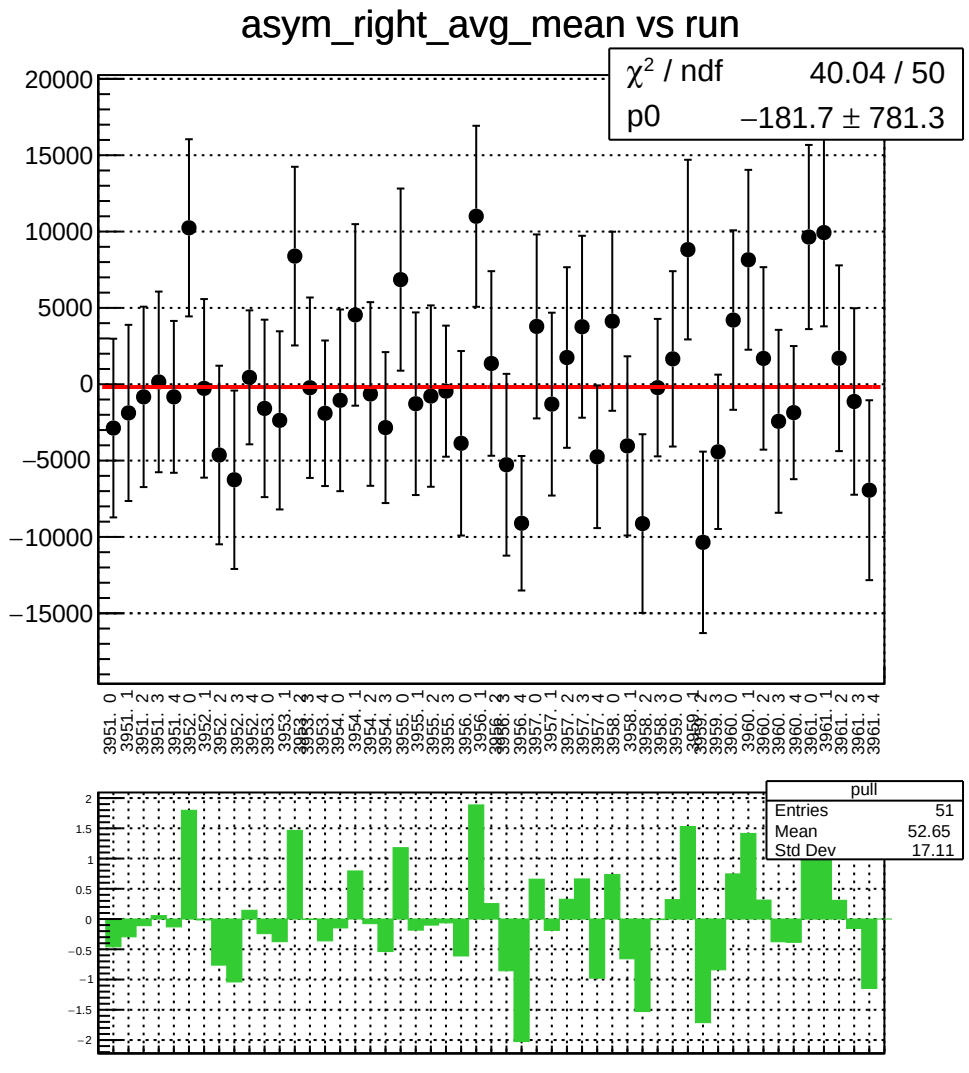

pull1D
Entries 51
Mean 0.03529
Std Dev 1.155
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

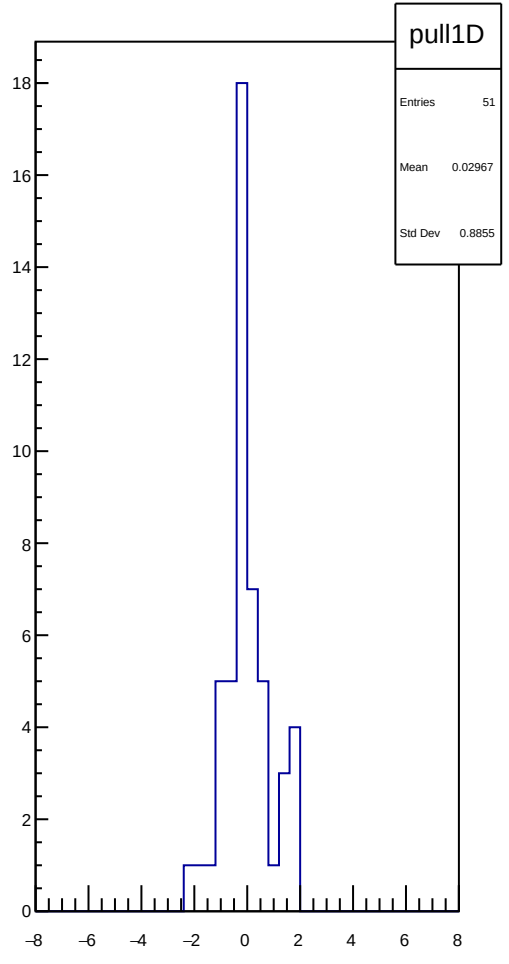

reg_asym_right_avg_rms vs run
χ² / ndf 42.21 / 50
p0 130.5 ± 0.1283
134
133
132
131
130
129
128
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

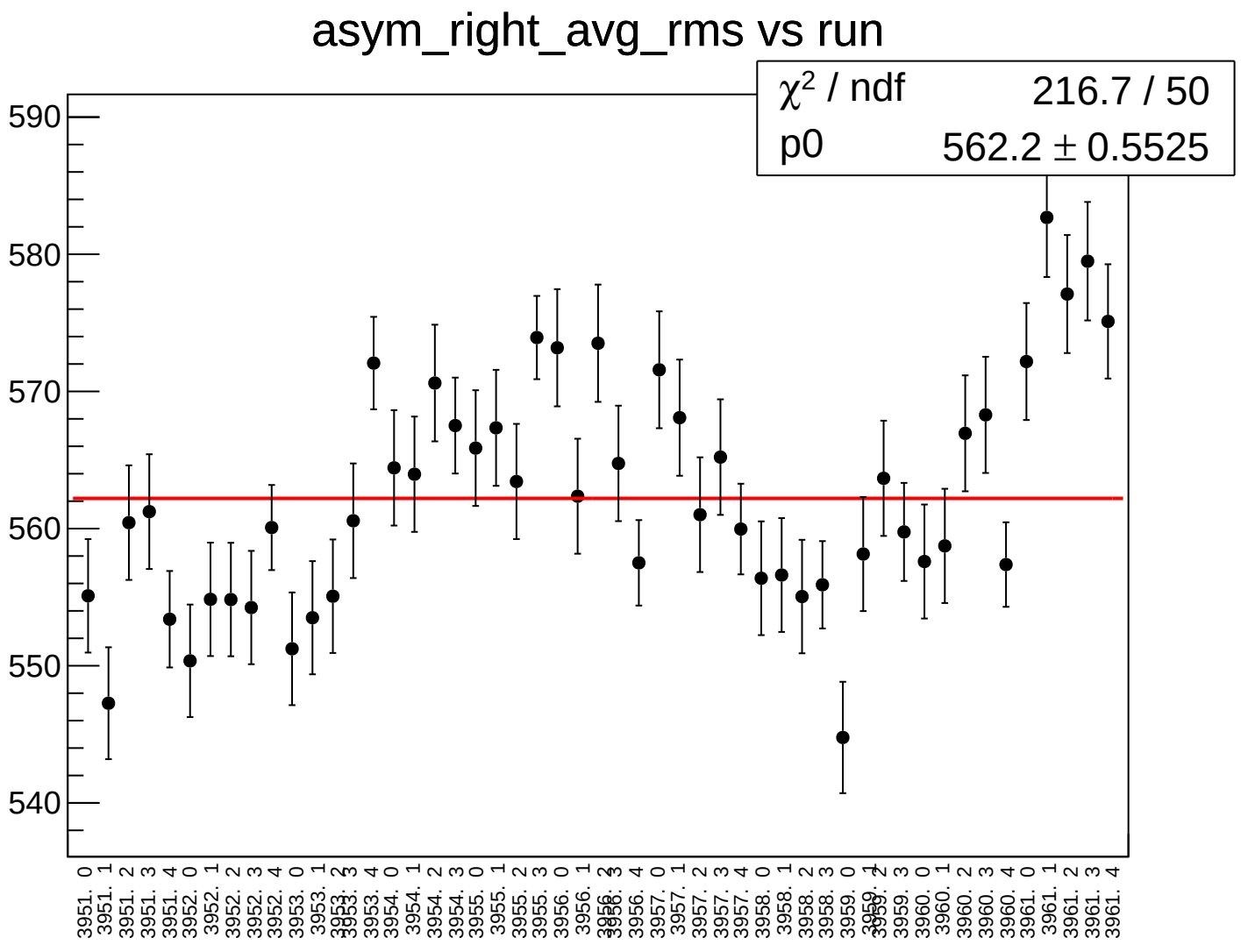

asym_right_avg_correction_mean vs run
χ² / ndf 37.86 / 50
p0 912.2 ± 759.9
pull
Entries 51
Mean 15.13
Std Dev 17.78

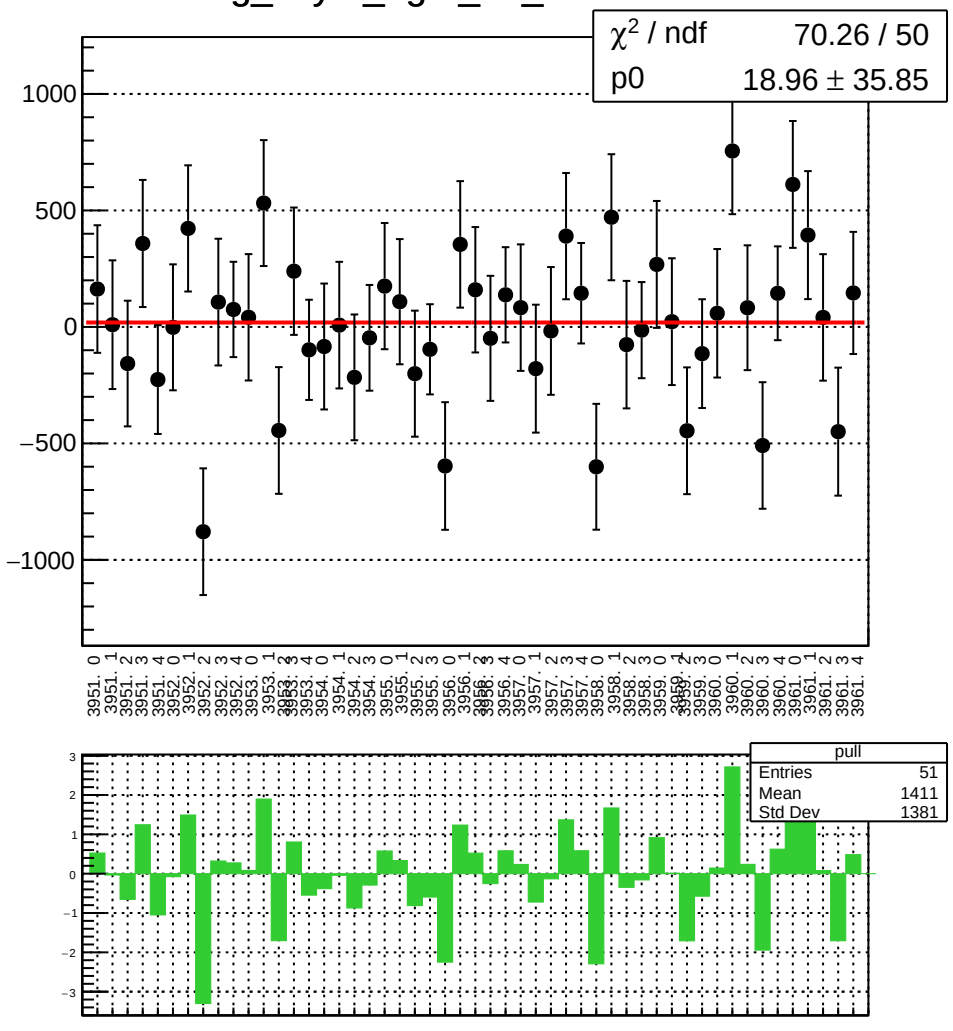

pull1D
Entries 51
Mean −0.02117
Std Dev 0.8613

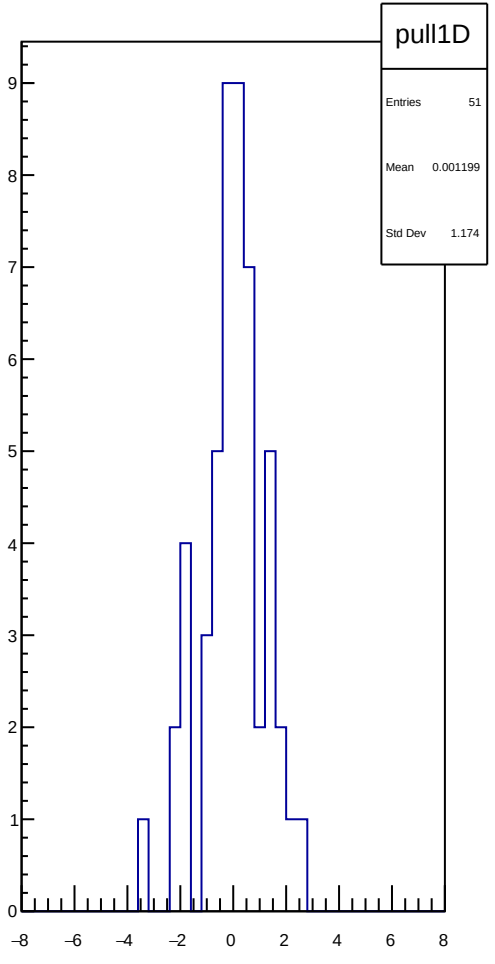

asym_right_avg_correction_rms vs run
χ² / ndf 237.8 / 50
p0 546.8 ± 0.5374
570
560
550
540
530
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

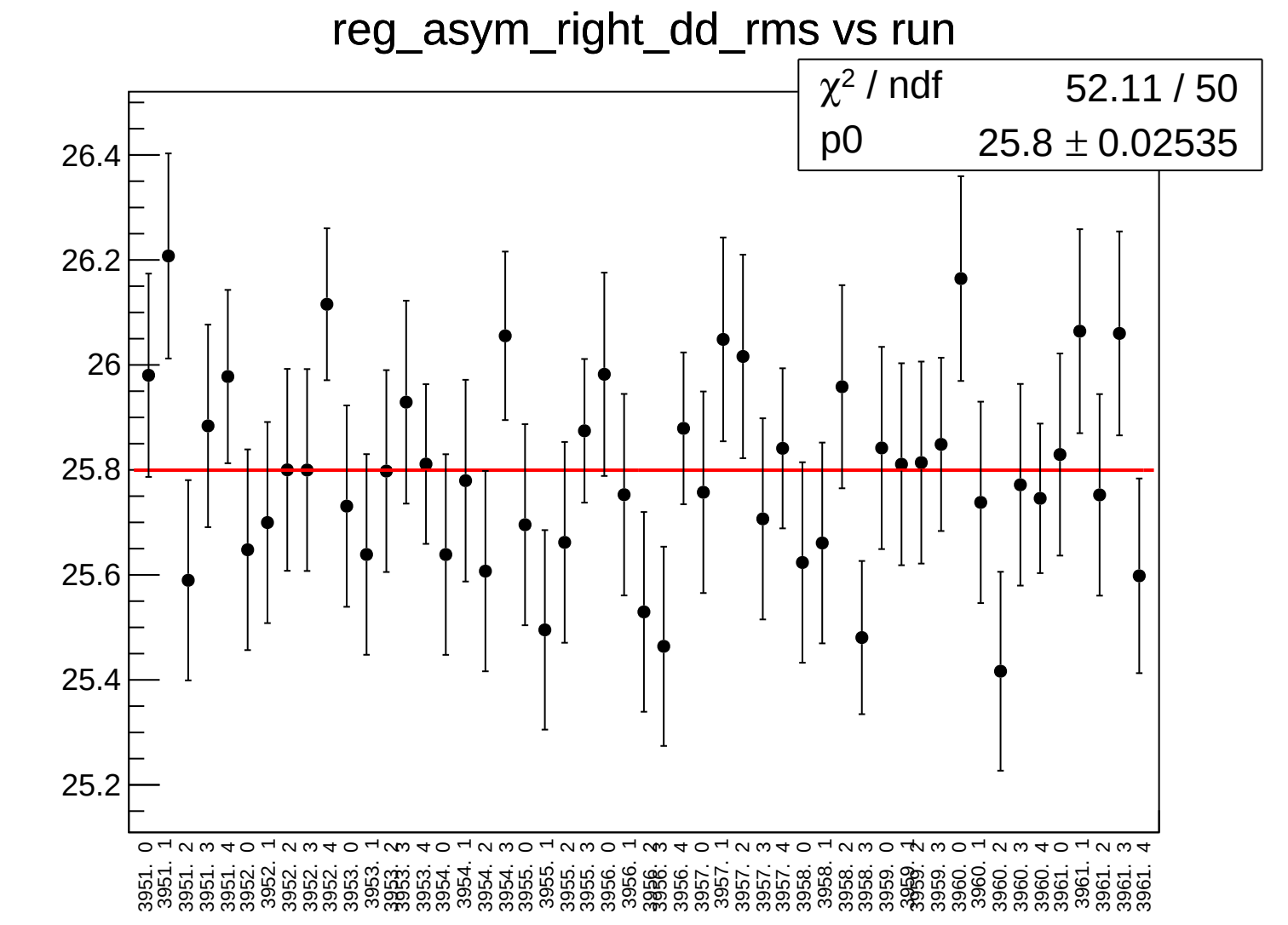

asym_right_avg_mean vs run
χ² / ndf 40.04 / 50
p0 −181.7 ± 781.3
pull
Entries 51
Mean 52.65
Std Dev 17.11


pull1D
Entries 51
Mean 0.02967
Std Dev 0.8855


asym_right_avg_rms vs run
χ² / ndf 216.7 / 50
p0 562.2 ± 0.5525
590
580
570
560
550
540
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_right_dd_mean vs run
χ^2 / ndf 70.26 / 50
p0 18.96 ± 35.85
1000
500
0
−500
−1000
pull
Entries 51
Mean 1411
Std Dev 1381


pull1D
Entries 51
Mean 0.001199
Std Dev 1.174


reg_asym_right_dd_rms vs run
χ² / ndf 52.11 / 50
p0 25.8 ± 0.02535
26.4
26.2
26
25.8
25.6
25.4
25.2
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
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3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
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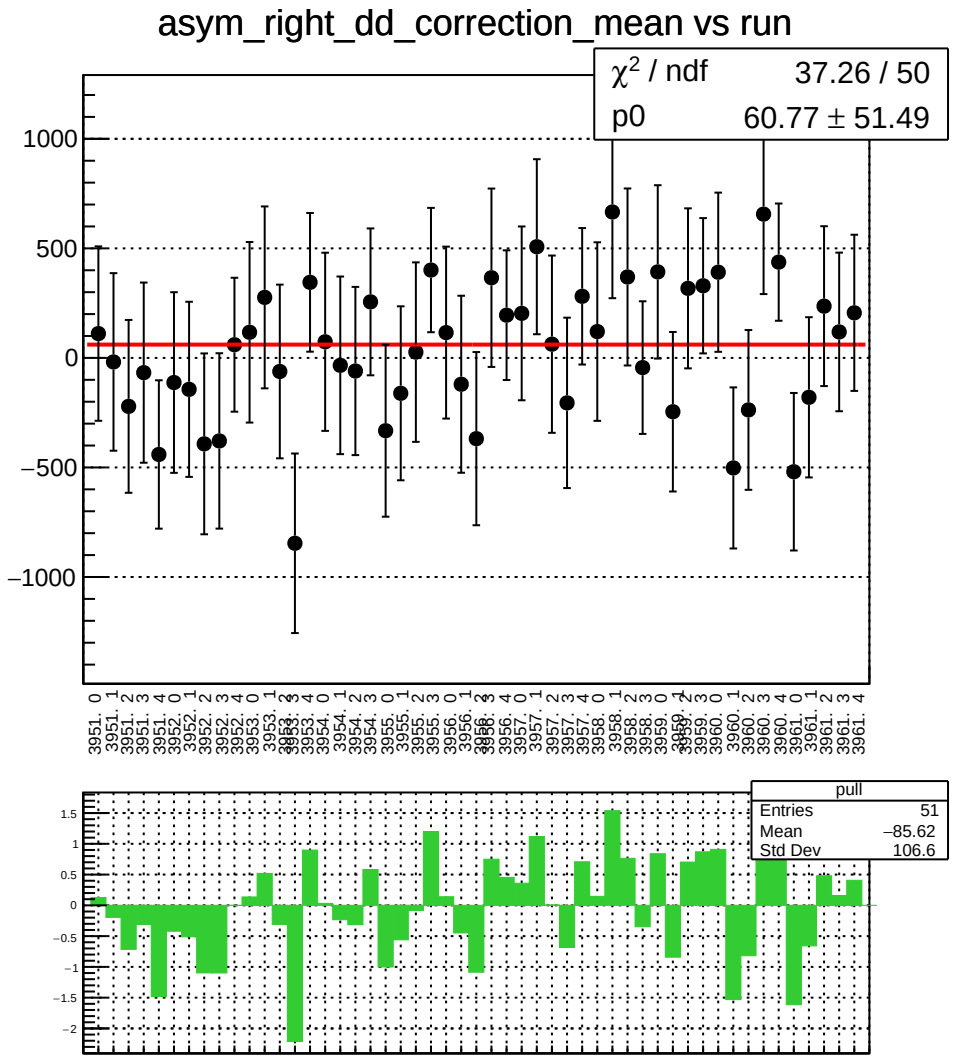
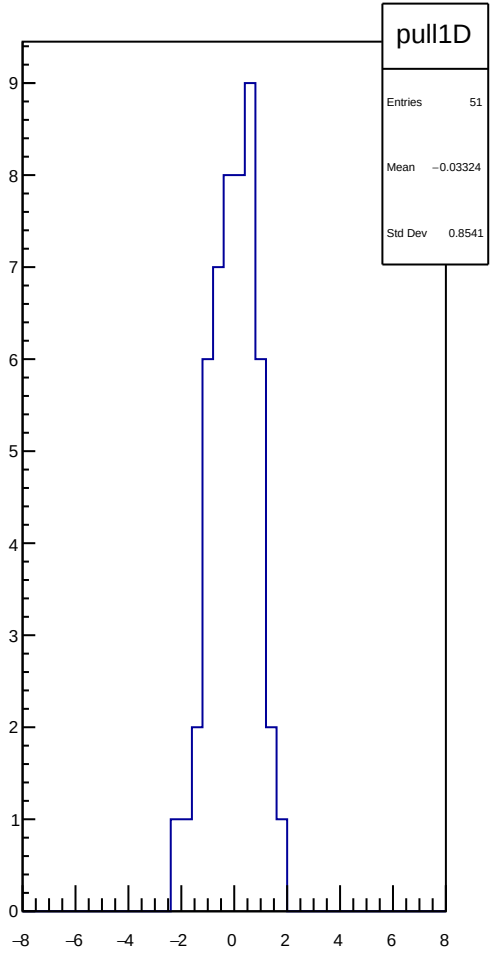
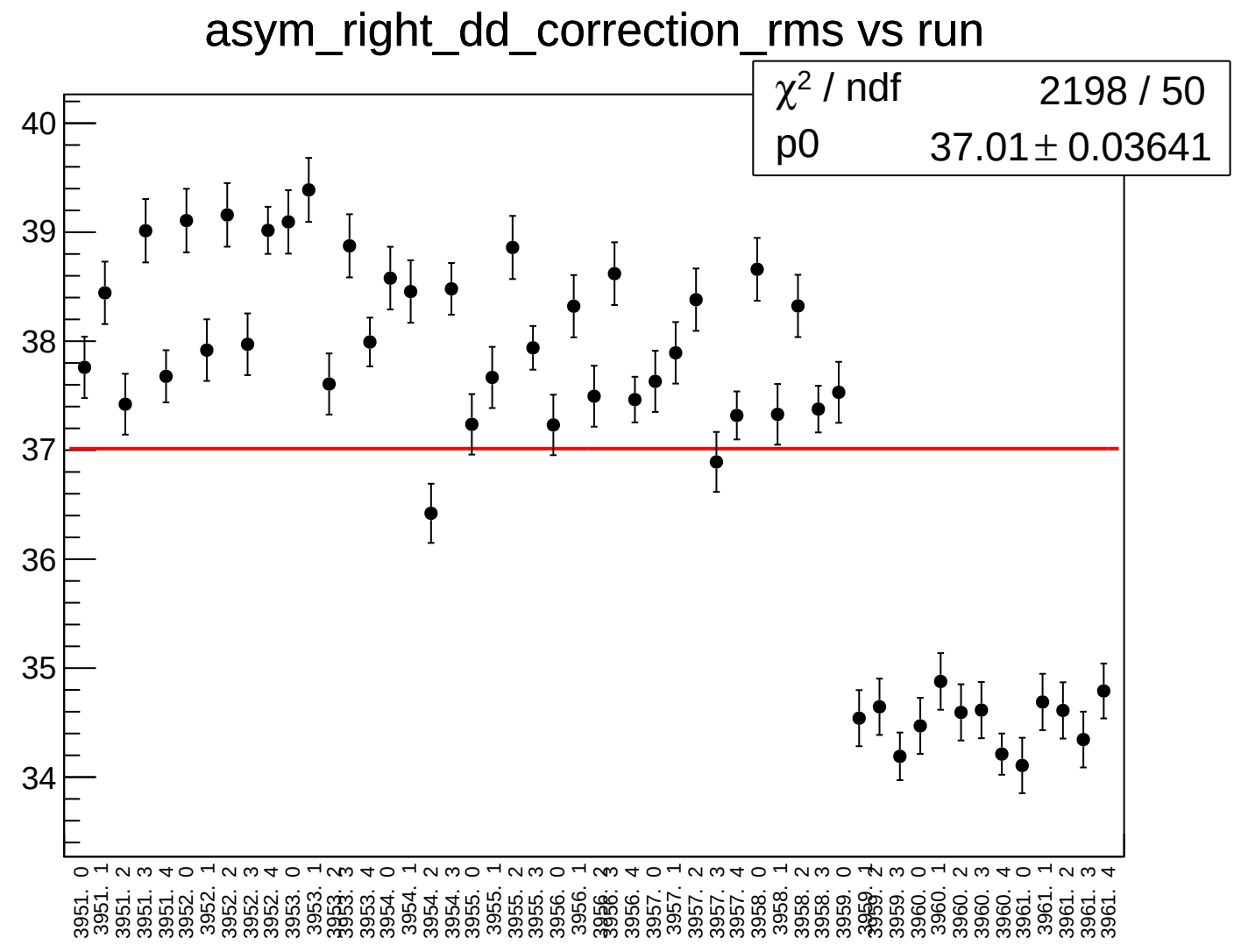
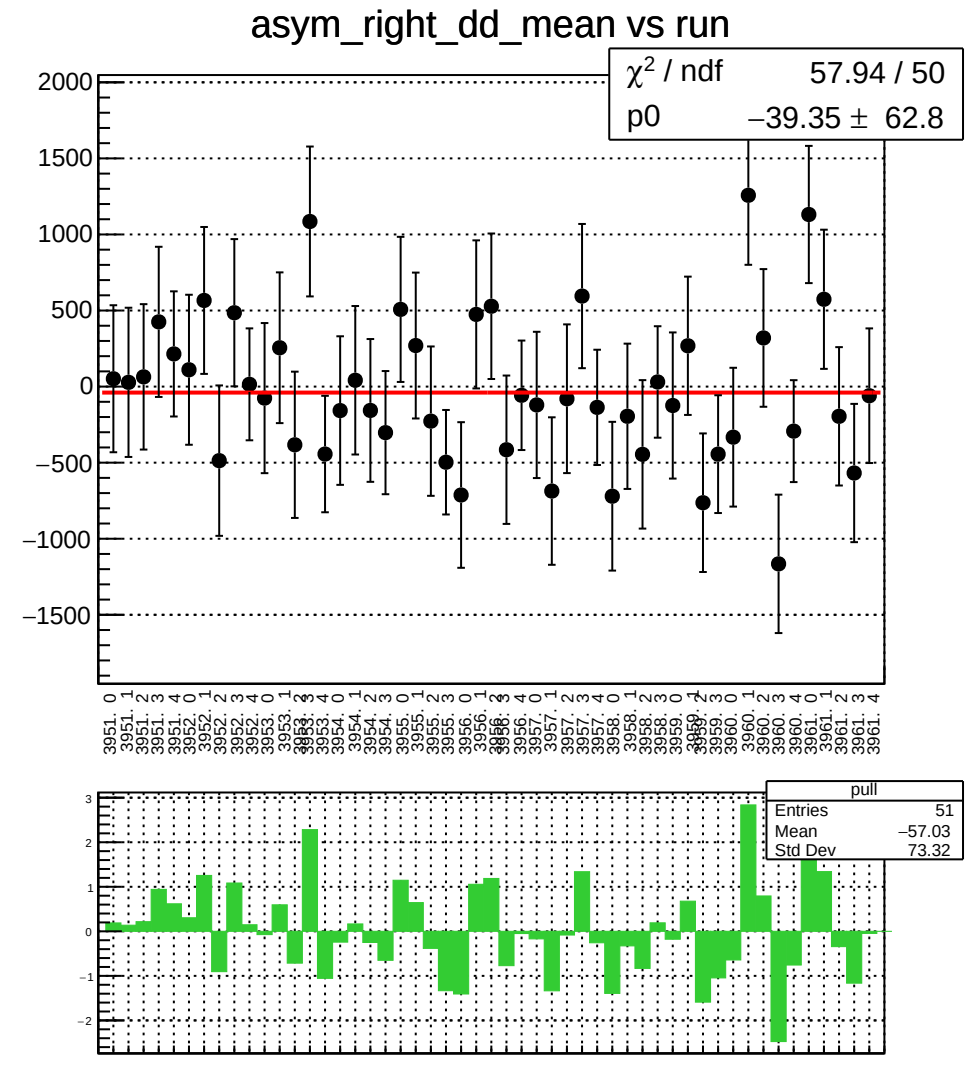
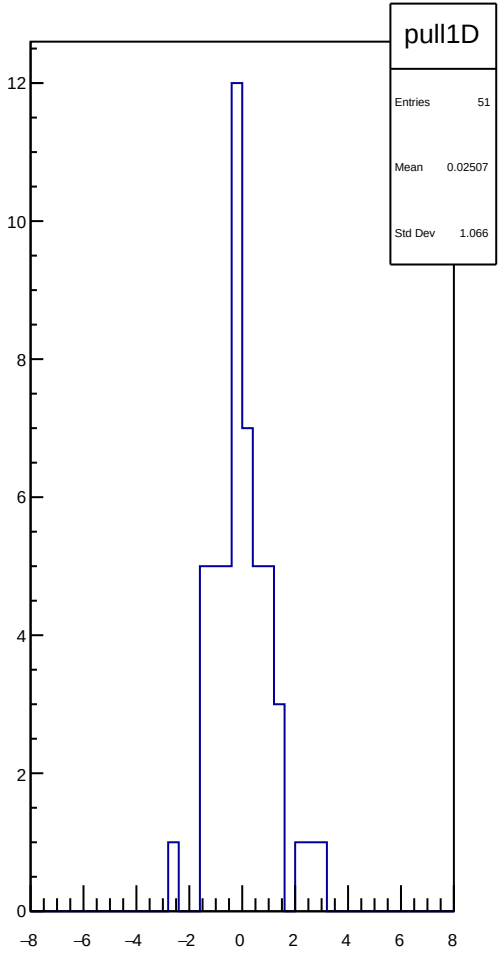
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

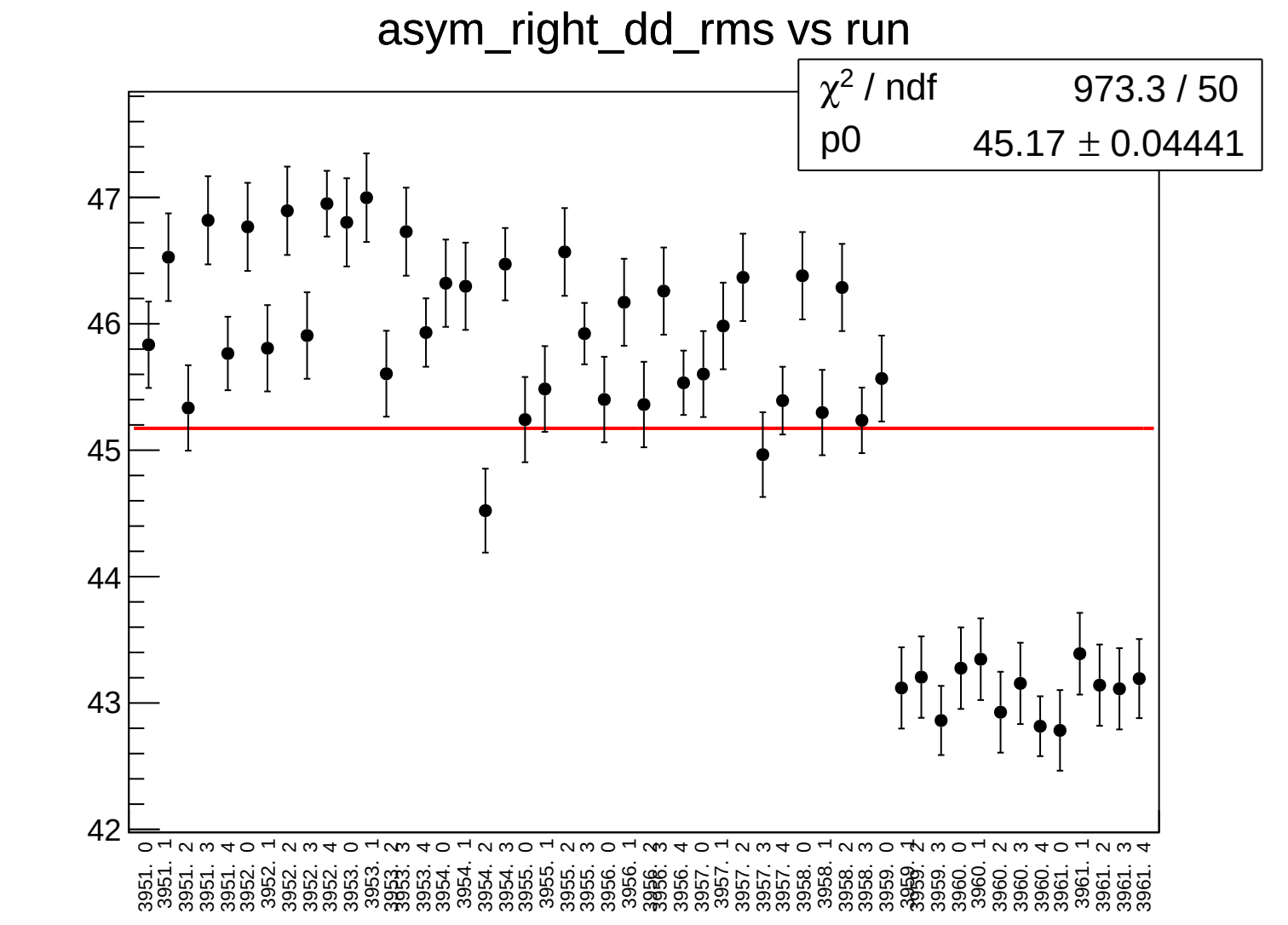

asym_right_dd_correction_mean vs run
χ² / ndf 37.26 / 50
p0 60.77 ± 51.49
1000
500
0
−500
−1000
pull
Entries 51
Mean −85.62
Std Dev 106.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

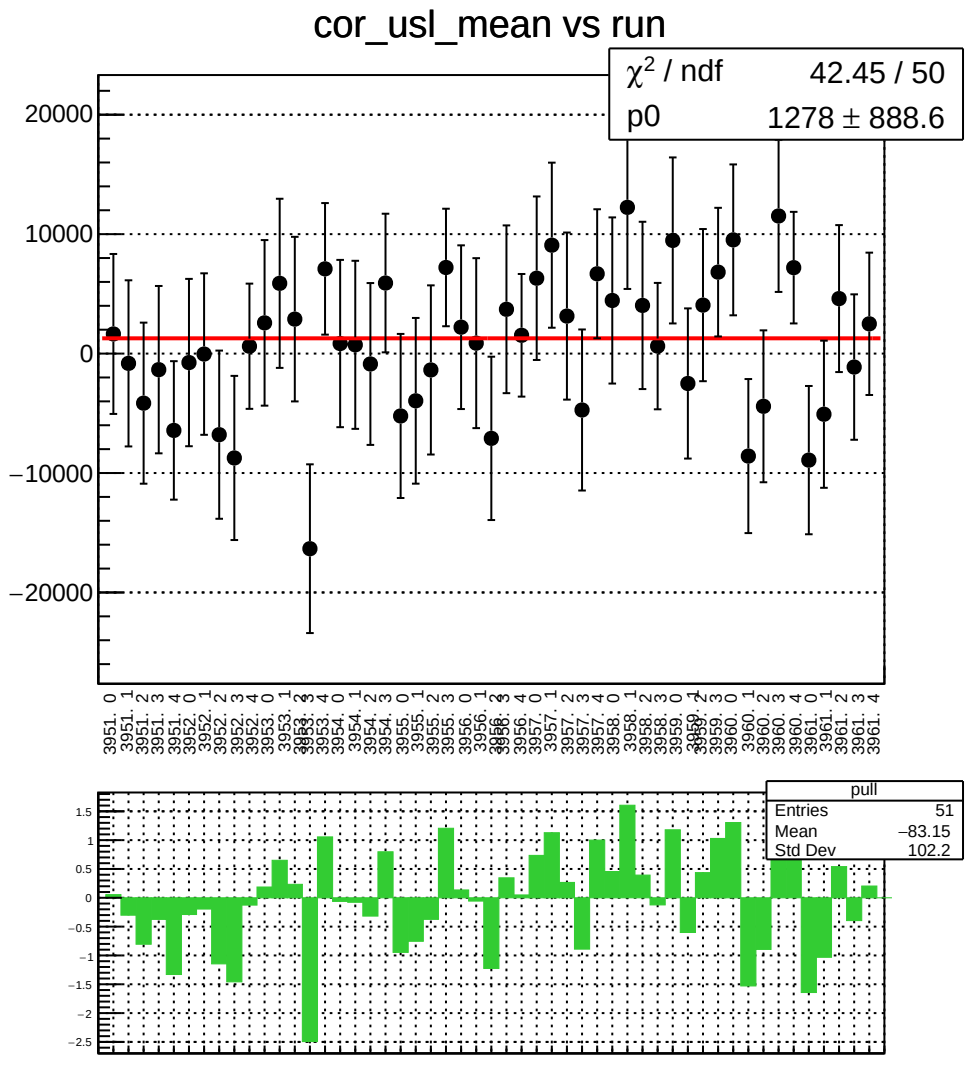

pull1D
Entries 51
Mean −0.03324
Std Dev 0.8541
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

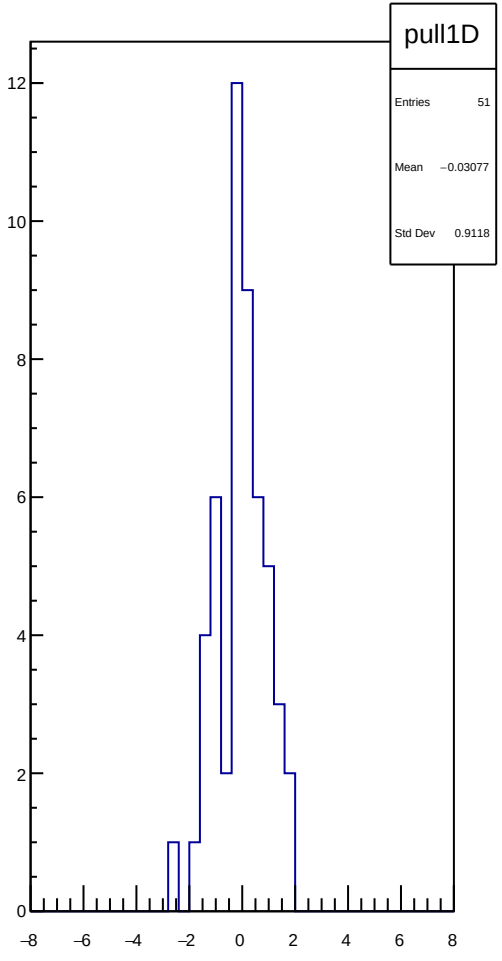

asym_right_dd_correction_rms vs run
χ² / ndf 2198 / 50
p0 37.01 ± 0.03641
40
39
38
37
36
35
34
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

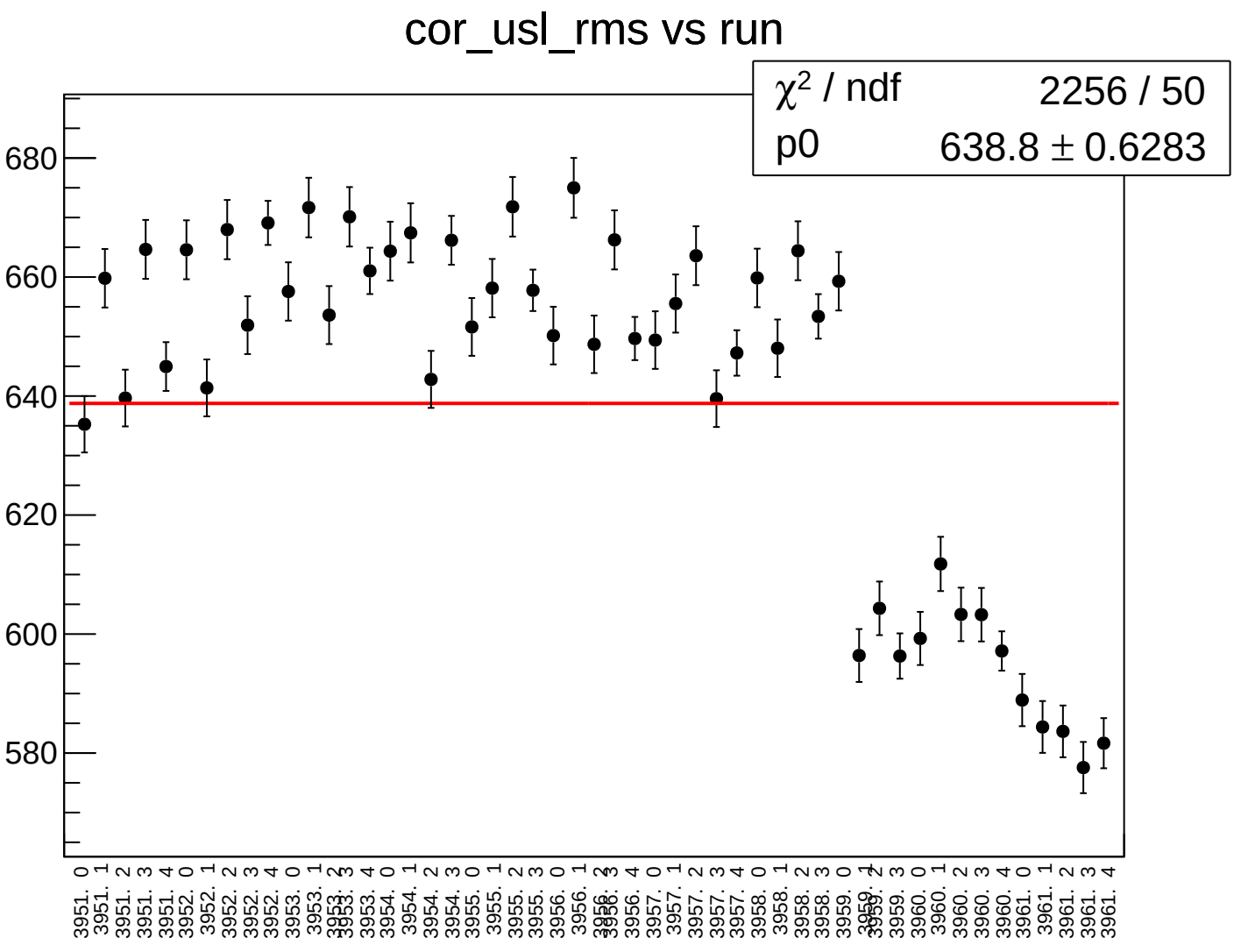

asym_right_dd_mean vs run
χ² / ndf 57.94 / 50
p0 −39.35 ± 62.8
pull
Entries 51
Mean −57.03
Std Dev 73.32

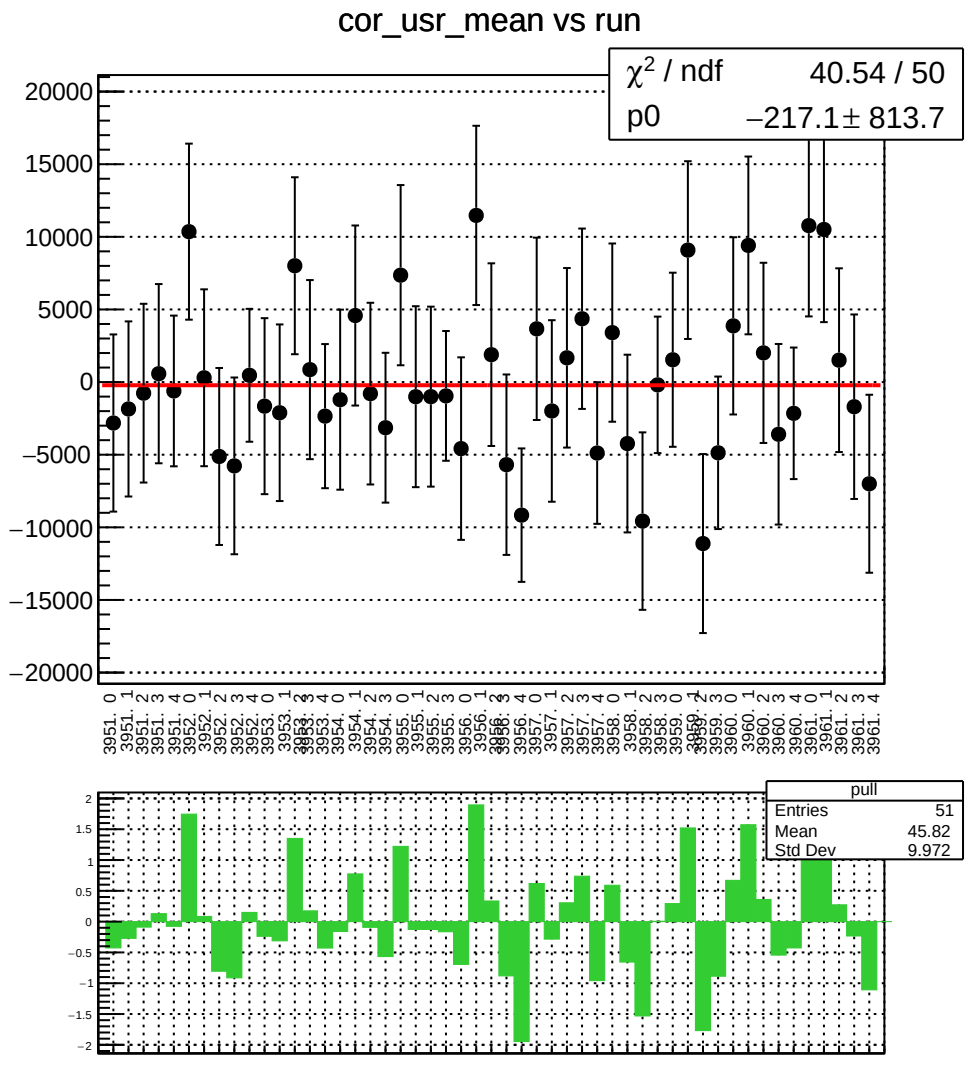

pull1D
Entries 51
Mean 0.02507
Std Dev 1.066

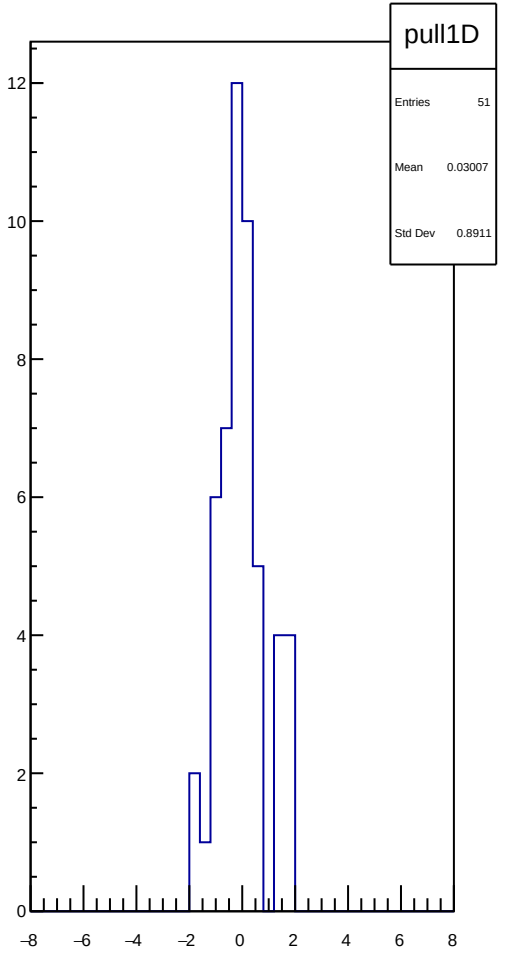

asym_right_dd_rms vs run
χ^2 / ndf 973.3 / 50
p0 45.17 ± 0.04441
47
46
45
44
43
42
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

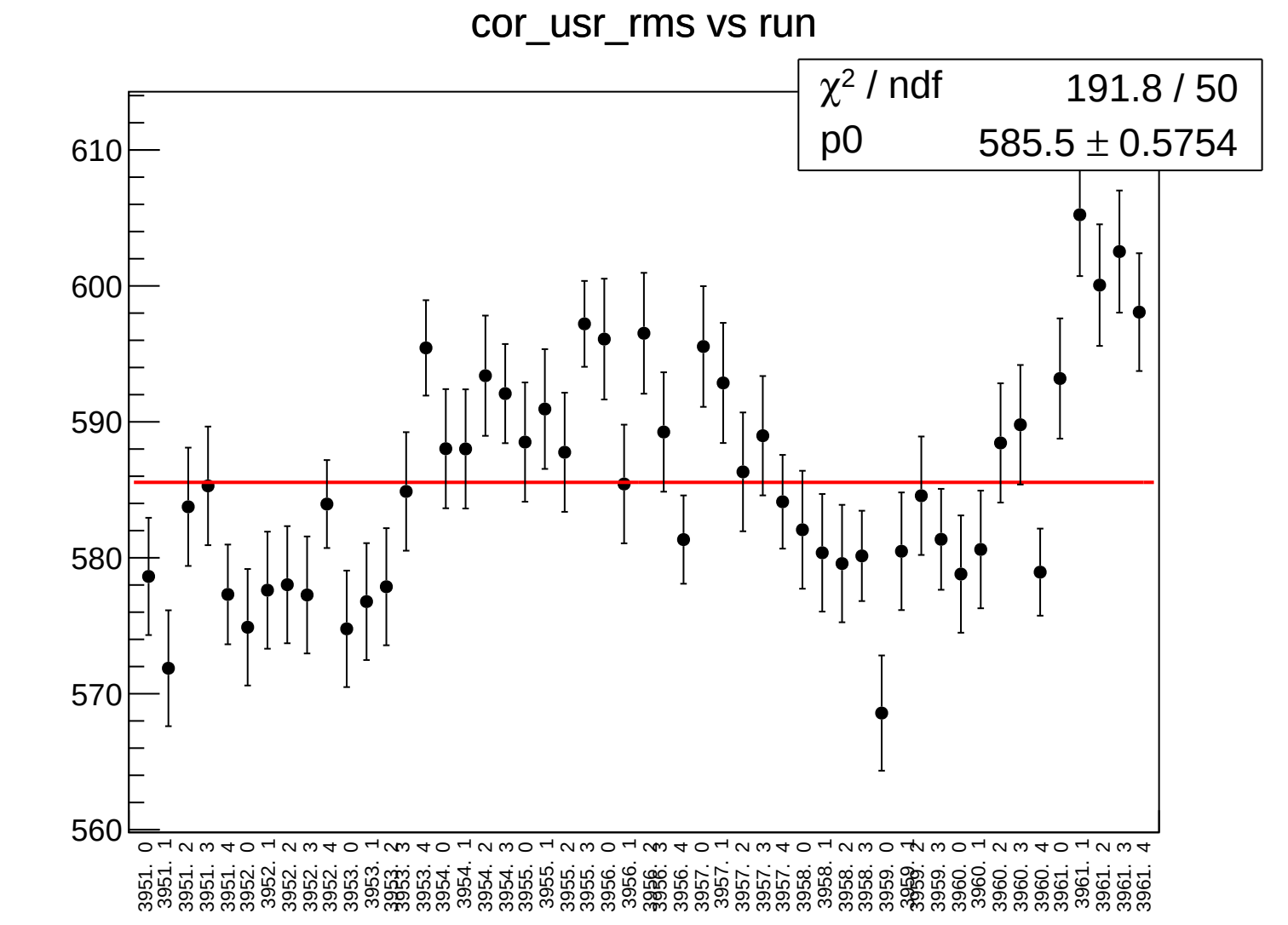

cor_usl_mean vs run
χ² / ndf 42.45 / 50
p0 1278 ± 888.6
20000
10000
0
−10000
−20000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3954. 4
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3958. 4
3959. 0
3959. 1
3959. 2
3959. 3
3959. 4
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4
pull
Entries 51
Mean −83.15
Std Dev 102.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

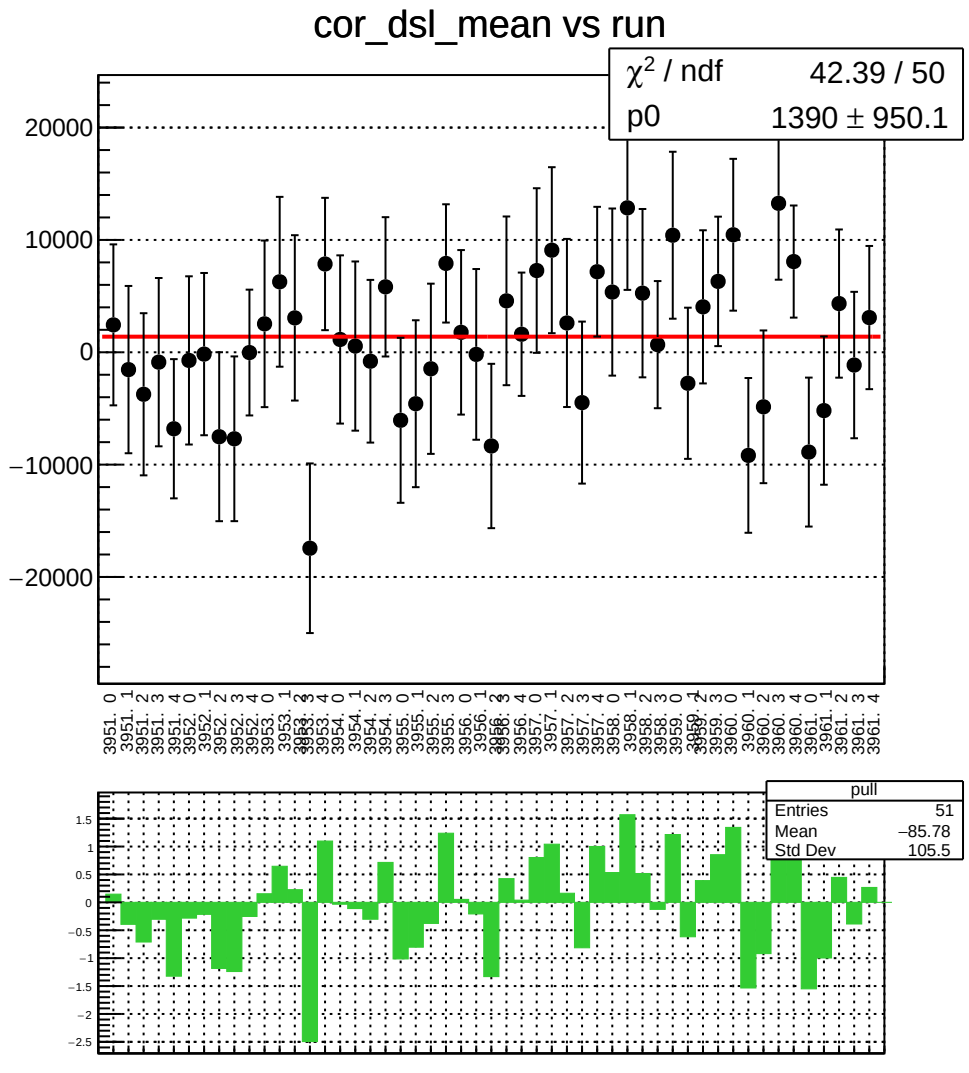

pull1D
Entries 51
Mean −0.03077
Std Dev 0.9118
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

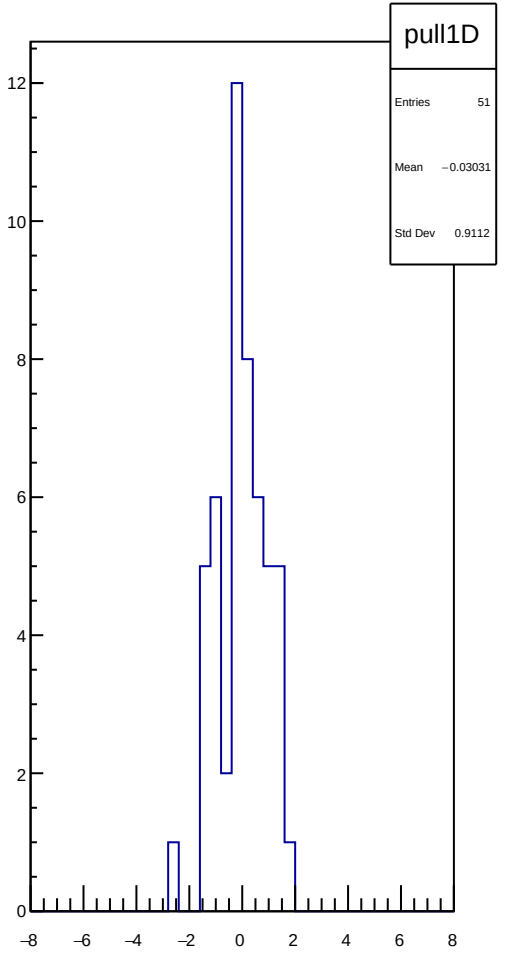

cor_usl_rms vs run
χ² / ndf 2256 / 50
p0 638.8 ± 0.6283
680
660
640
620
600
580
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

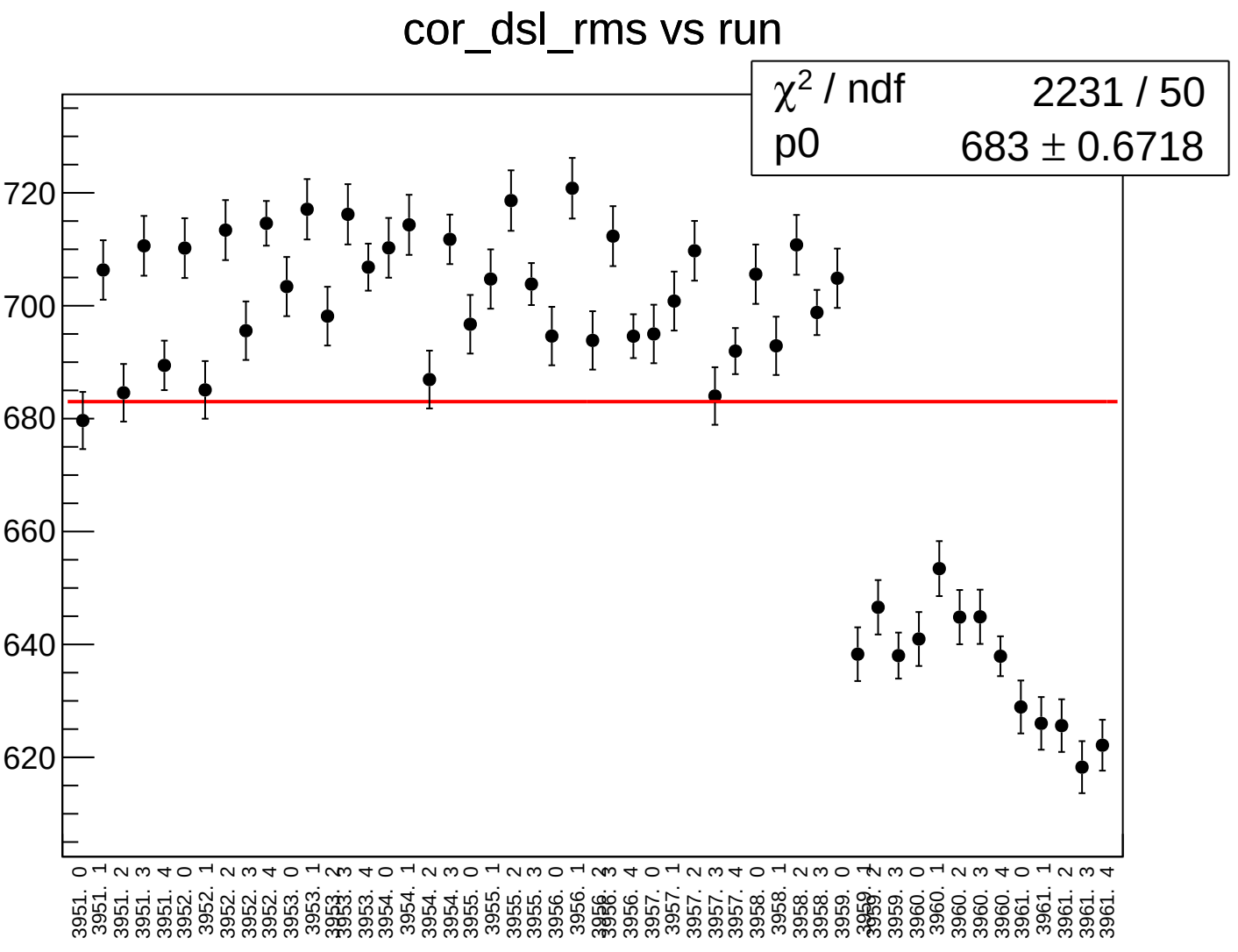

cor_usr_mean vs run
χ² / ndf 40.54 / 50
p0 −217.1± 813.7
pull
Entries 51
Mean 45.82
Std Dev 9.972

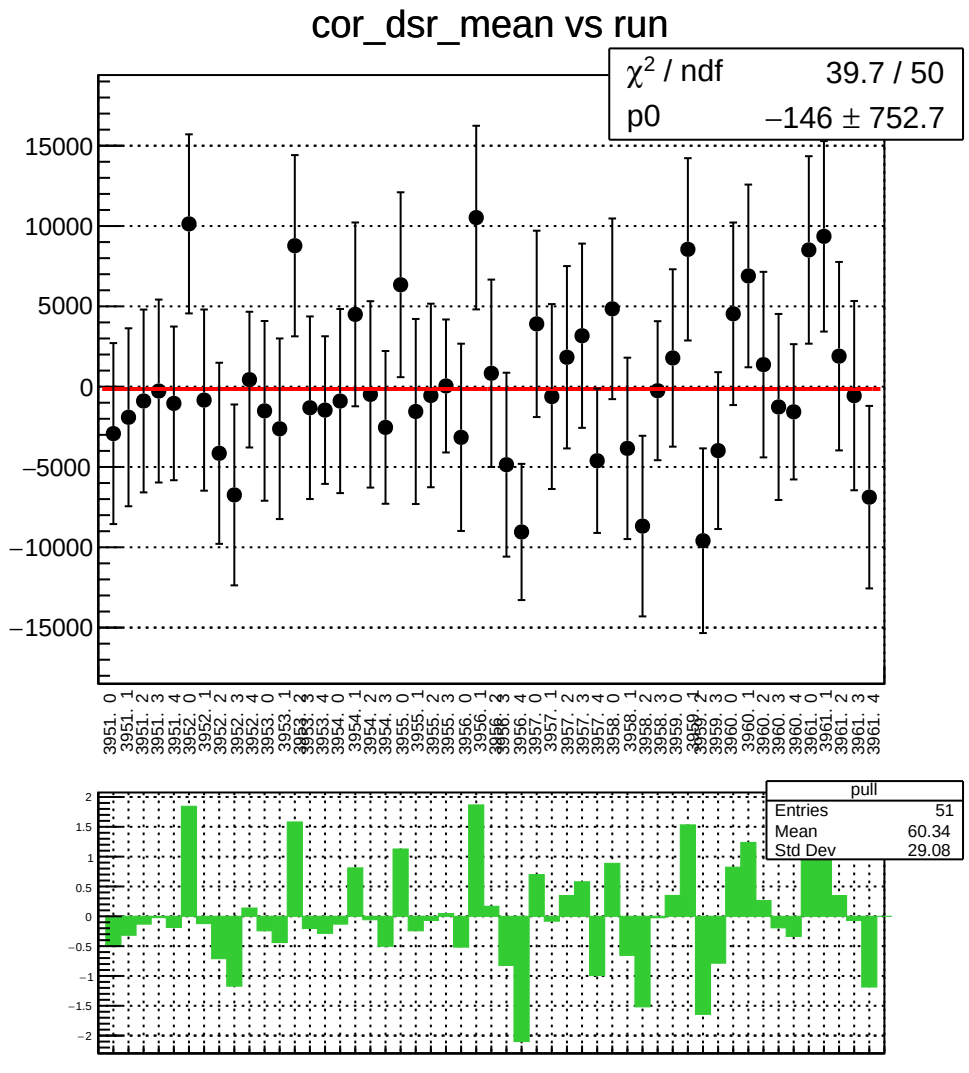

pull1D
Entries 51
Mean 0.03007
Std Dev 0.8911

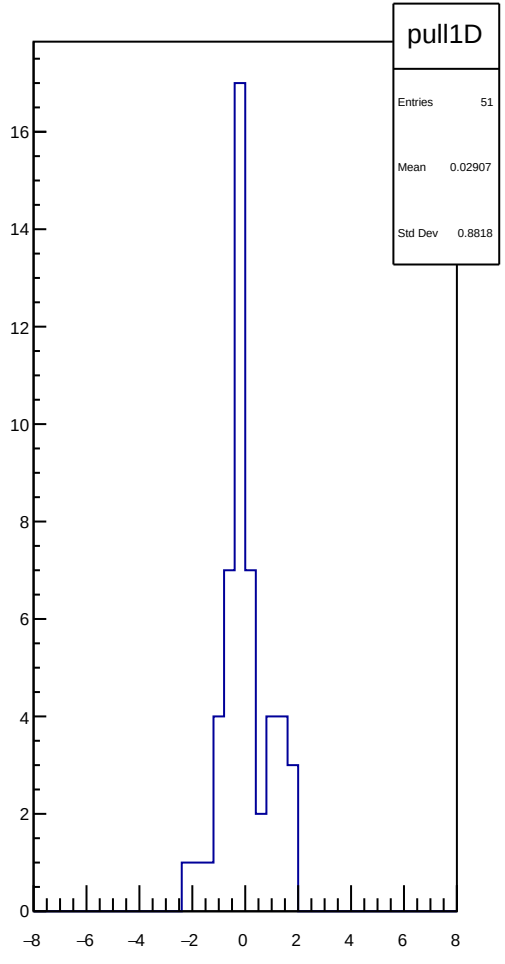

cor_usr_rms vs run
χ² / ndf 191.8 / 50
p0 585.5 ± 0.5754
610
600
590
580
570
560
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

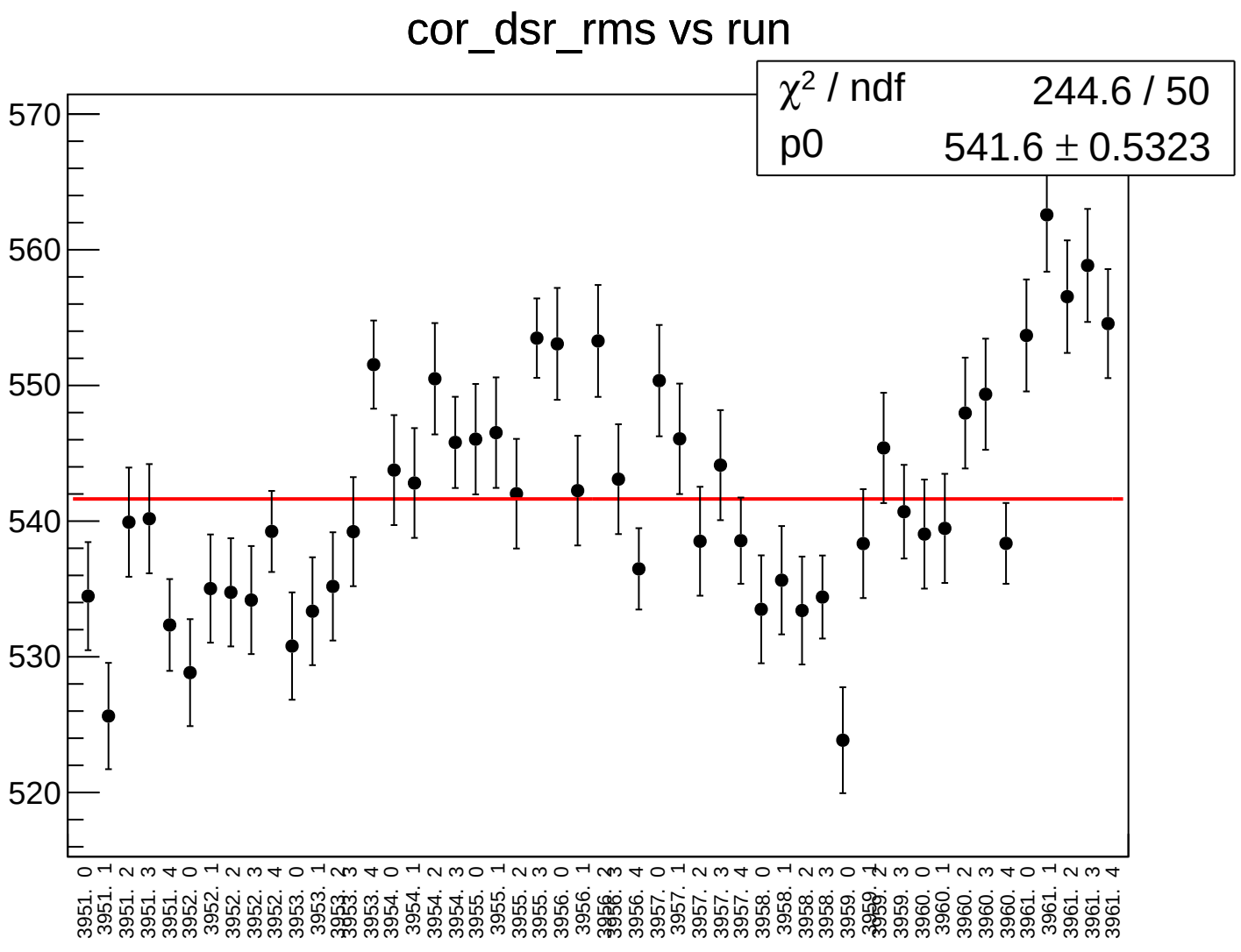

cor_dsl_mean vs run
χ² / ndf 42.39 / 50
p0 1390 ± 950.1
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −85.78
Std Dev 105.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

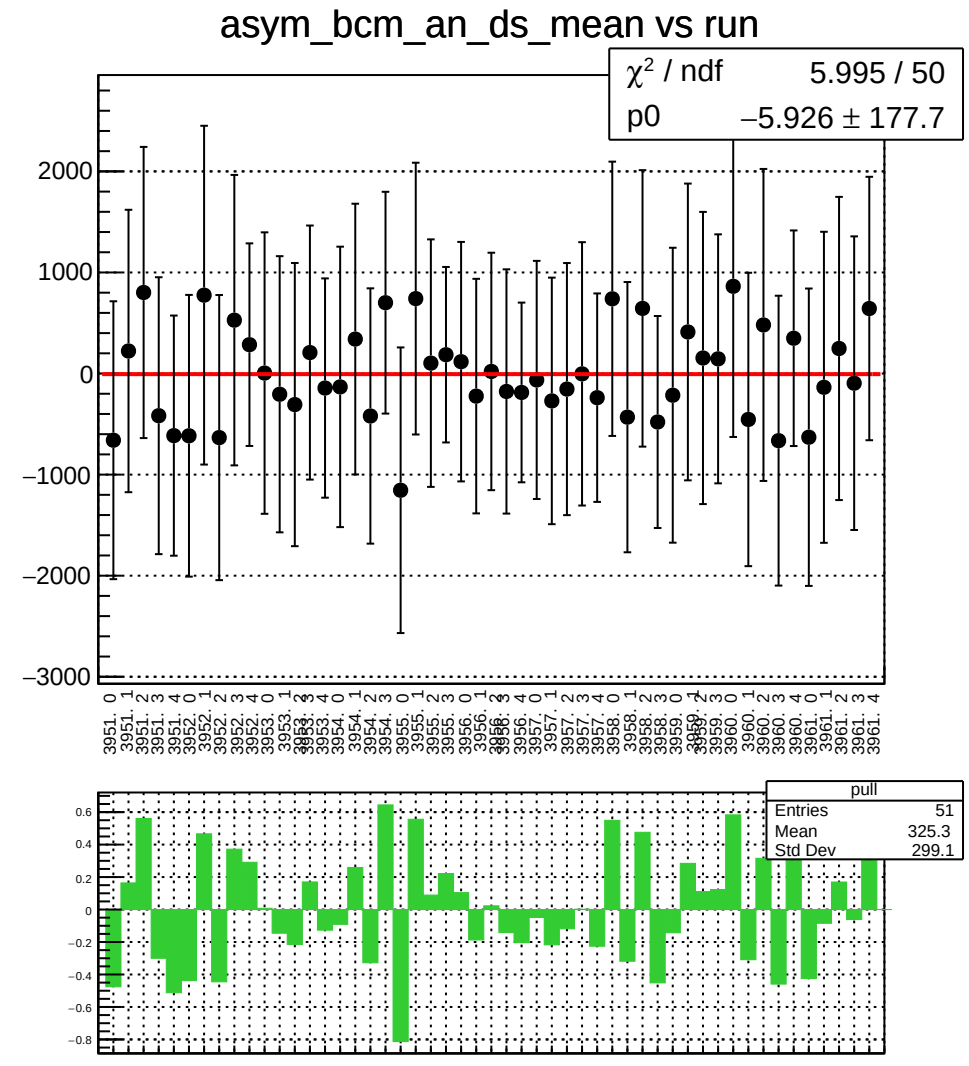

pull1D
Entries 51
Mean −0.03031
Std Dev 0.9112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

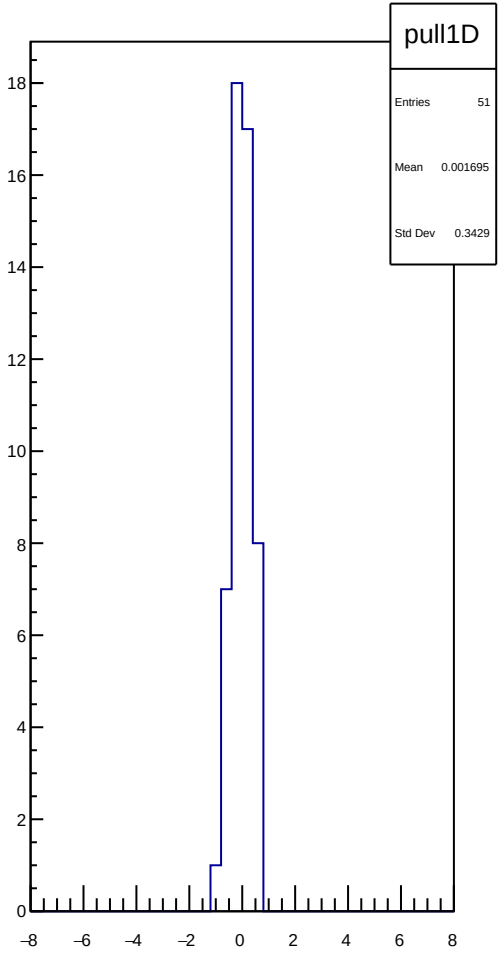

cor_dsl_rms vs run
χ² / ndf 2231 / 50
p0 683 ± 0.6718
720
700
680
660
640
620
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

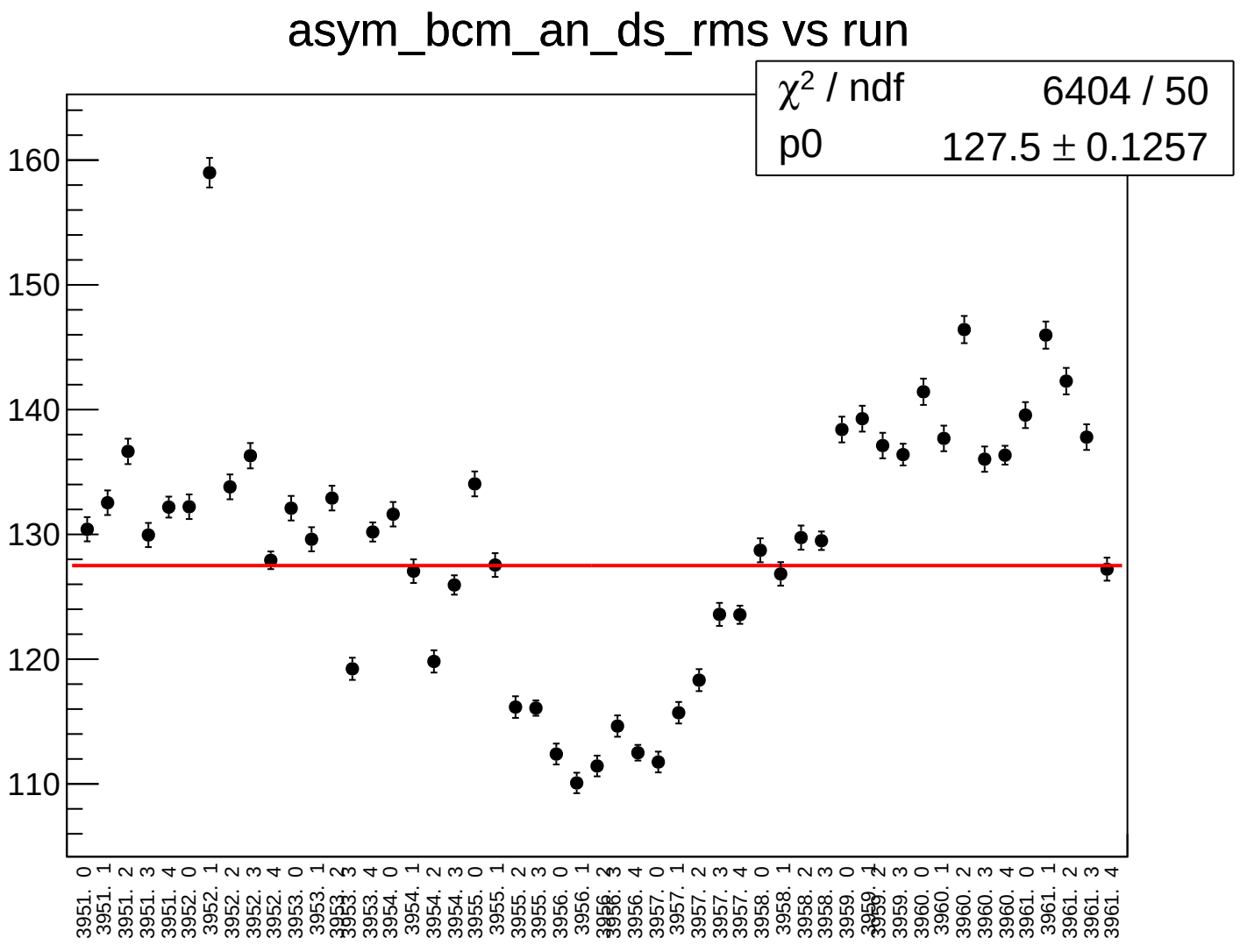

cor_dsr_mean vs run
χ² / ndf 39.7 / 50
p0 −146 ± 752.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean 60.34
Std Dev 29.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

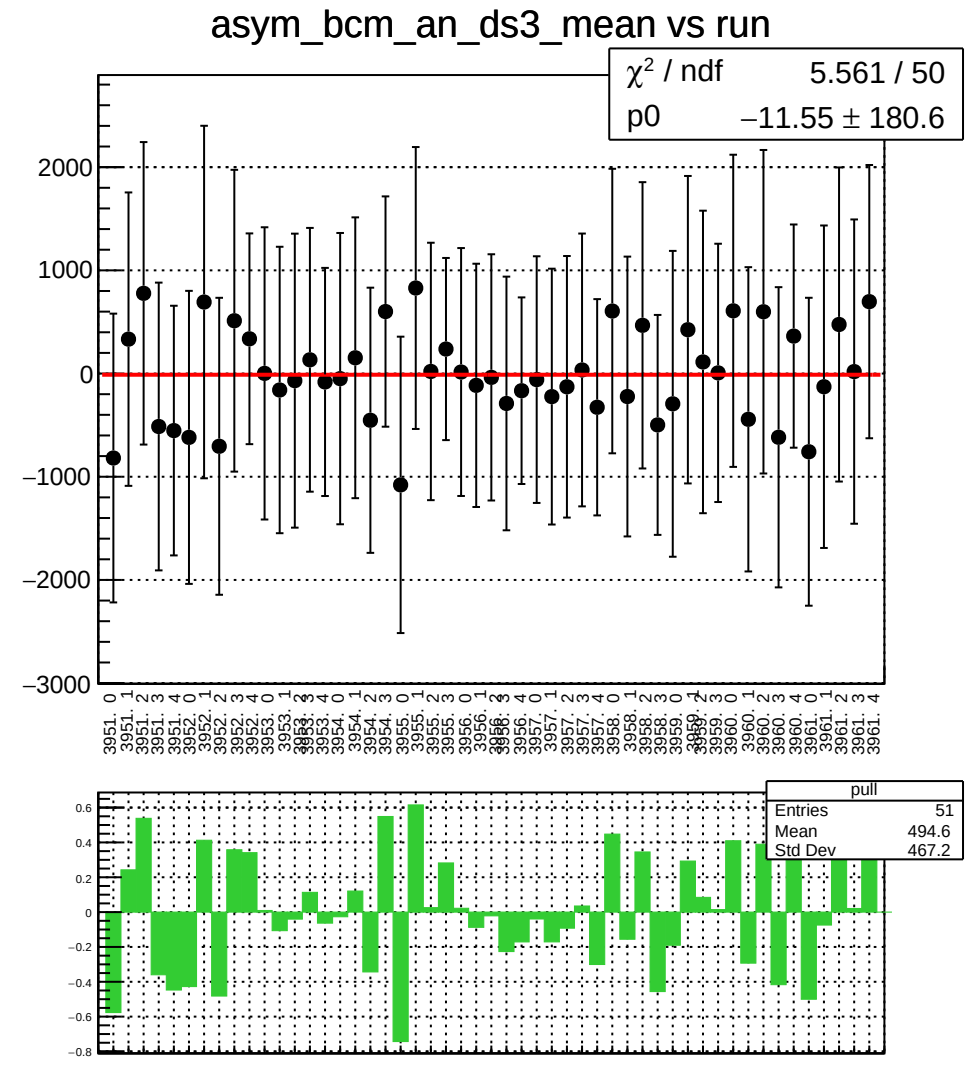

pull1D
Entries 51
Mean 0.02907
Std Dev 0.8818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

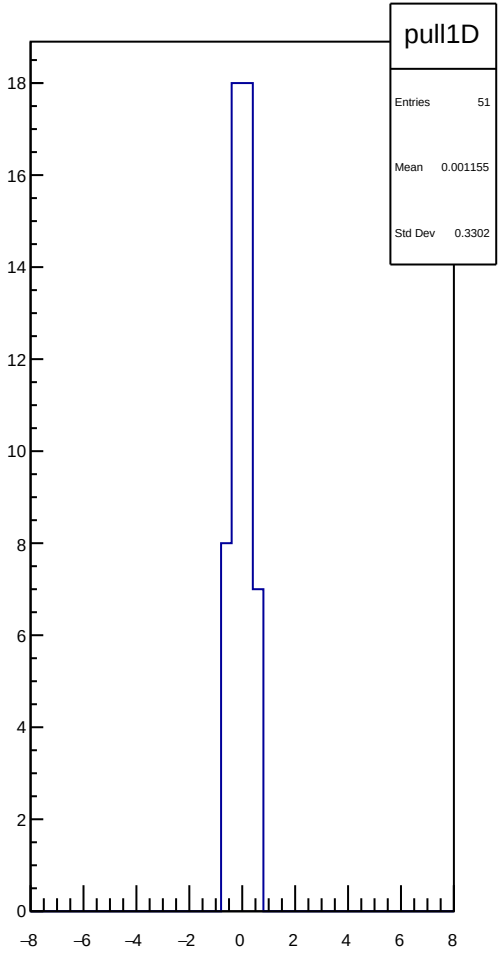

cor_dsr_rms vs run
χ² / ndf 244.6 / 50
p0 541.6 ± 0.5323
570
560
550
540
530
520
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

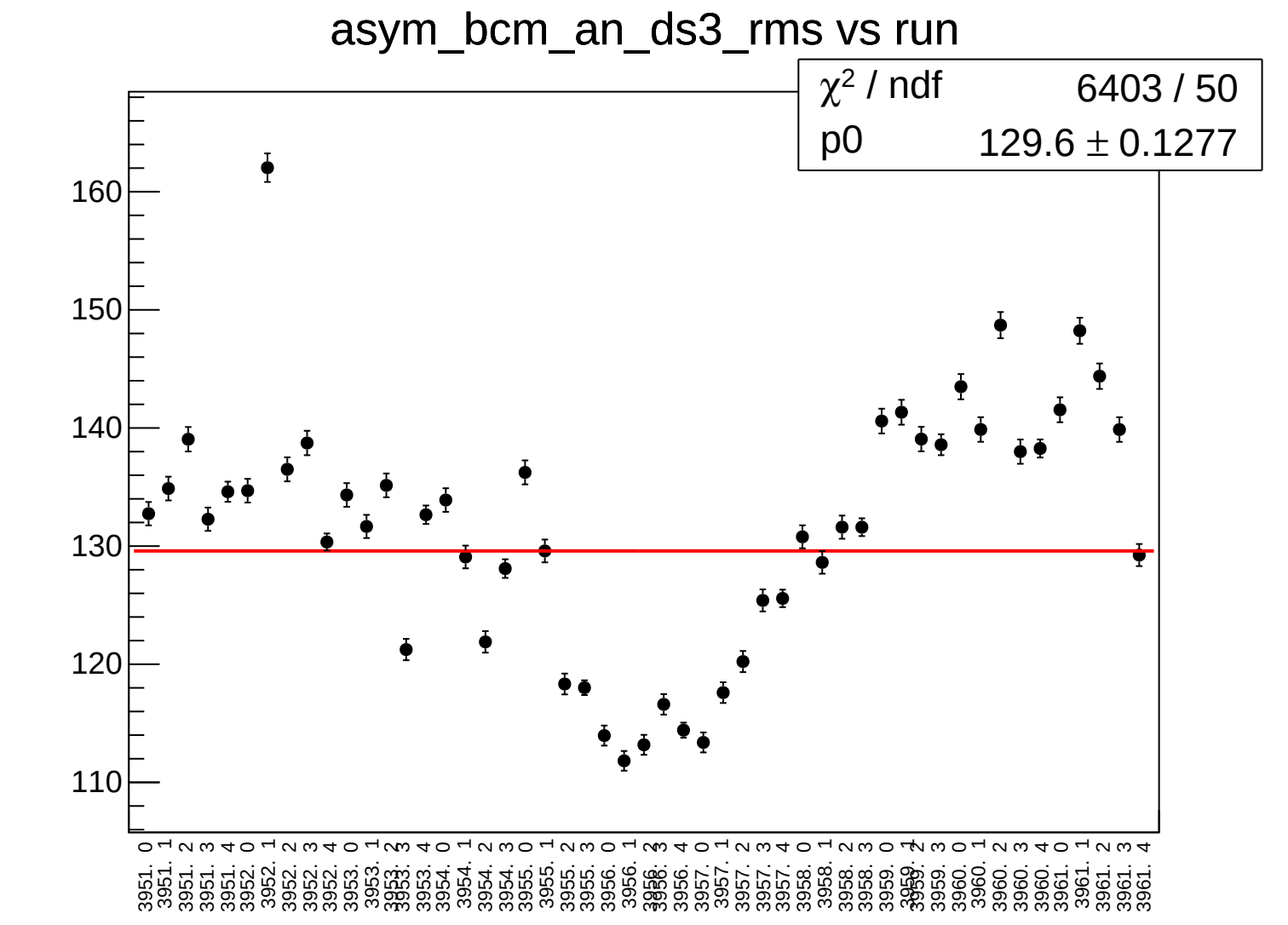

asym_bcm_an_ds_mean vs run
χ² / ndf 5.995 / 50
p0 −5.926 ± 177.7
pull
Entries 51
Mean 325.3
Std Dev 299.1


pull1D
Entries 51
Mean 0.001695
Std Dev 0.3429


asym_bcm_an_ds_rms vs run
χ² / ndf 6404 / 50
p0 127.5 ± 0.1257
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_an_ds3_mean vs run
χ² / ndf 5.561 / 50
p0 −11.55 ± 180.6
pull
Entries 51
Mean 494.6
Std Dev 467.2


pull1D
Entries 51
Mean 0.001155
Std Dev 0.3302


asym_bcm_an_ds3_rms vs run
χ² / ndf 6403 / 50
p0 129.6 ± 0.1277
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
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3955. 1
3955. 2
3955. 3
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3956. 2
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3956. 4
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3957. 1
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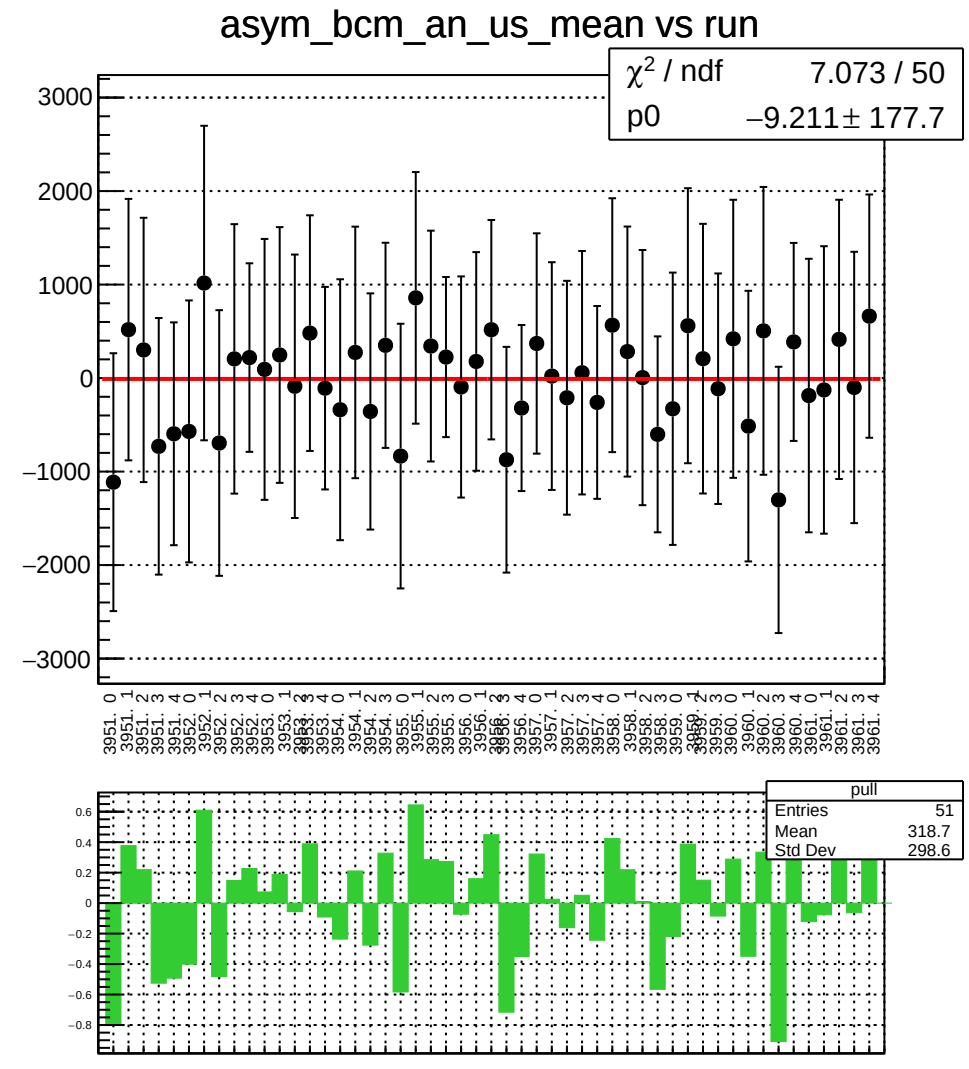
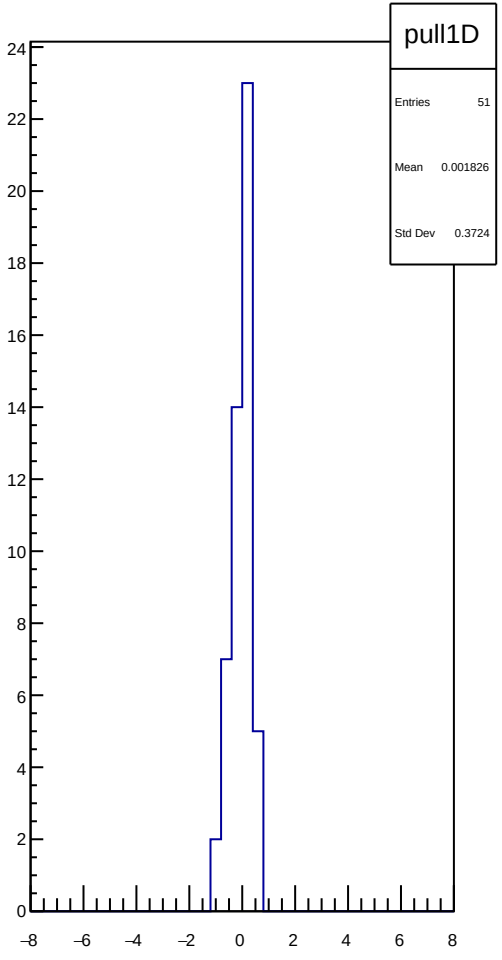
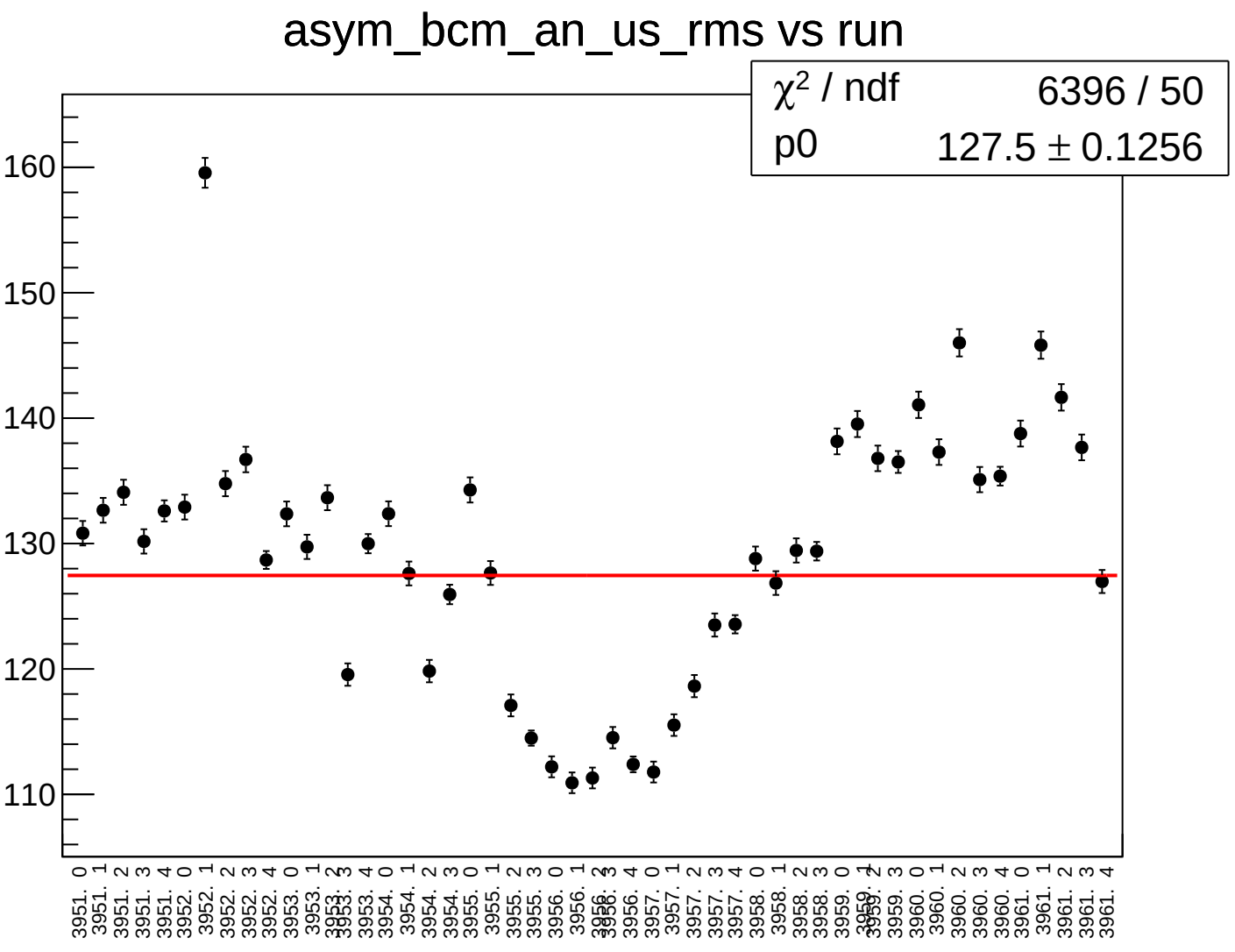
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_an_us_mean vs run
χ² / ndf 7.073 / 50
p0 −9.211 ± 177.7
pull
Entries 51
Mean 318.7
Std Dev 298.6


pull1D
Entries 51
Mean 0.001826
Std Dev 0.3724


asym_bcm_an_us_rms vs run
χ² / ndf 6396 / 50
p0 127.5 ± 0.1256
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
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3954. 3
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3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
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3957. 2
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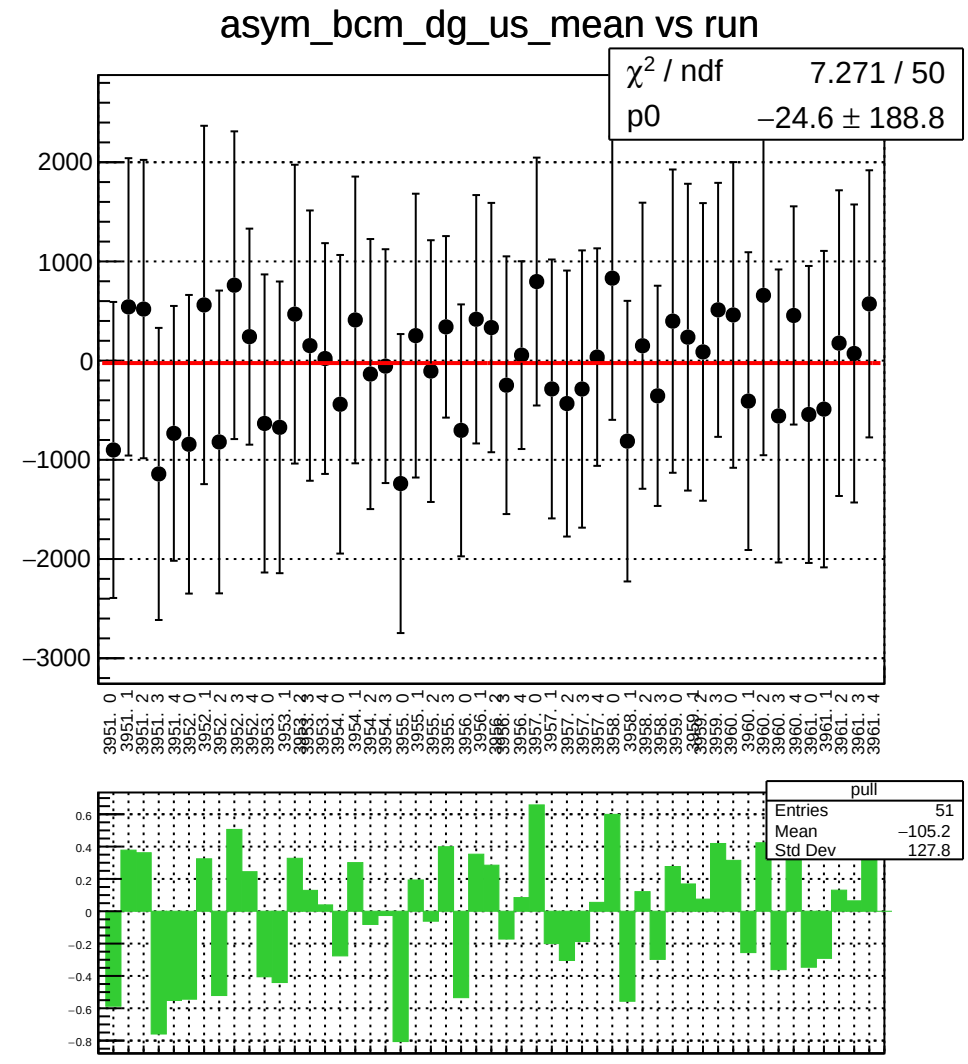
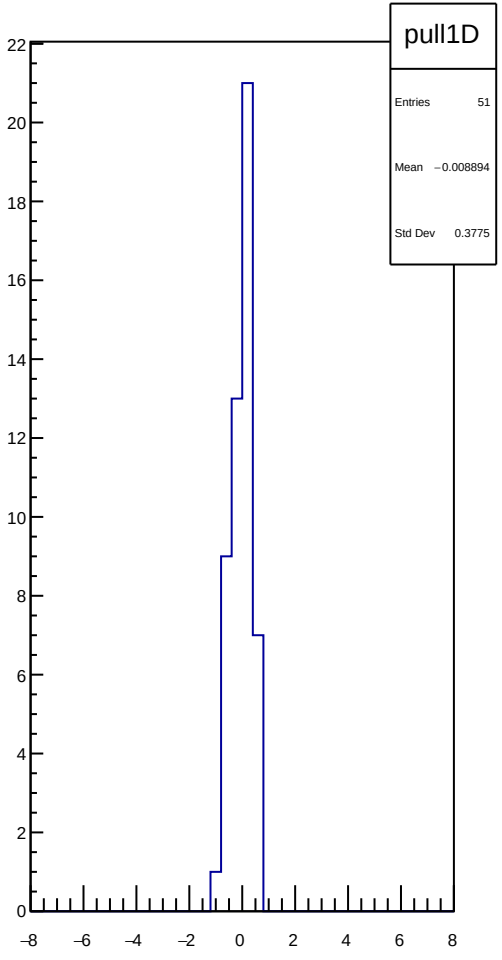
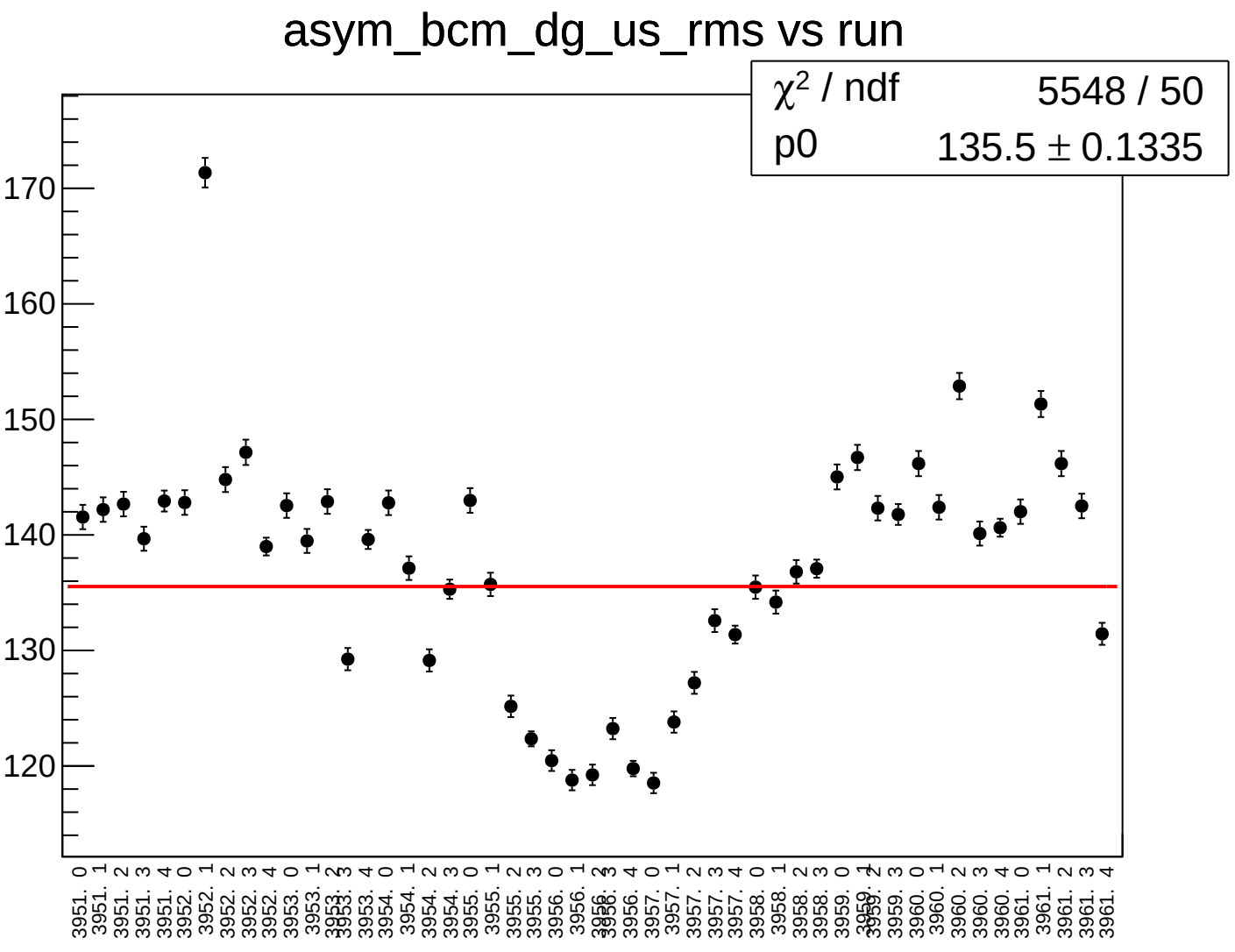
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_dg_us_mean vs run
χ² / ndf 7.271 / 50
p0 −24.6 ± 188.8
pull
Entries 51
Mean −105.2
Std Dev 127.8


pull1D
Entries 51
Mean −0.008894
Std Dev 0.3775


asym_bcm_dg_us_rms vs run
χ² / ndf 5548 / 50
p0 135.5 ± 0.1335
170
160
150
140
130
120
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
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3953. 3
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3954. 2
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3961. 2
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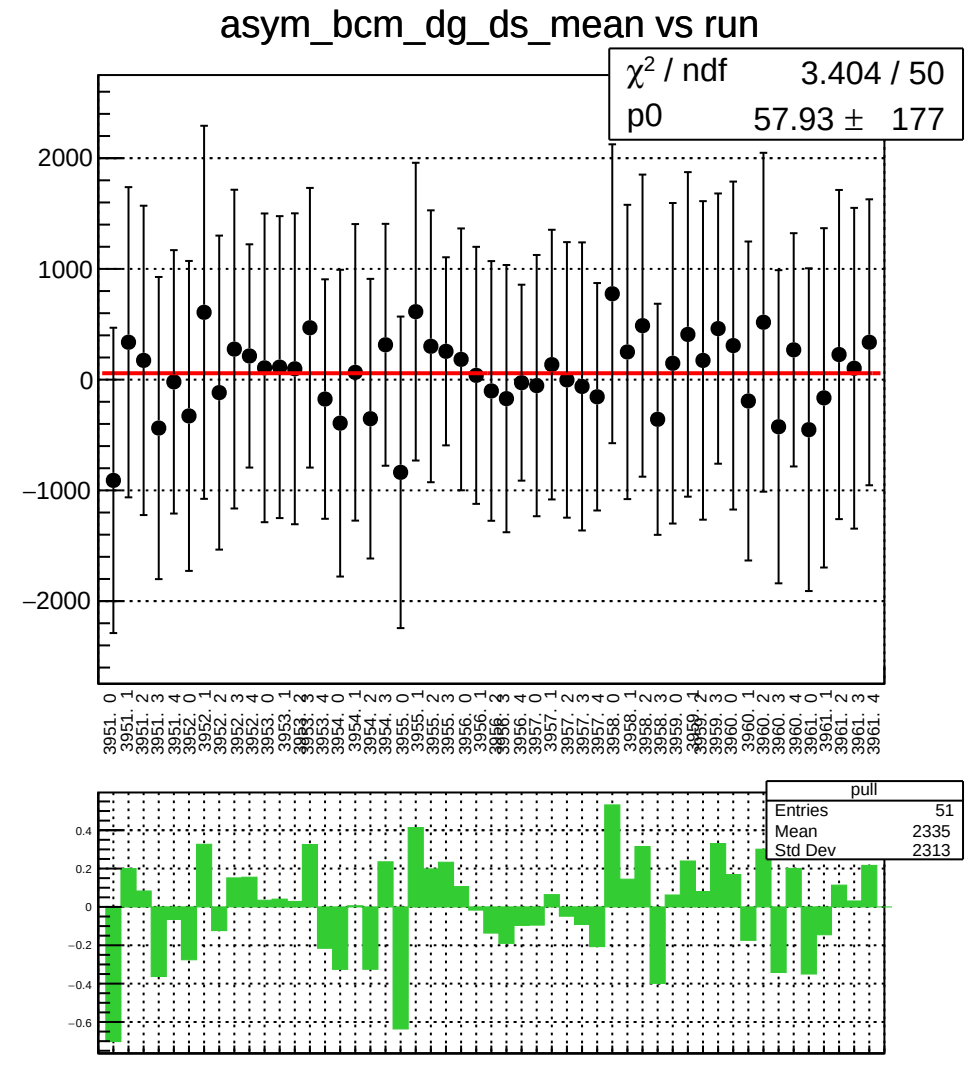
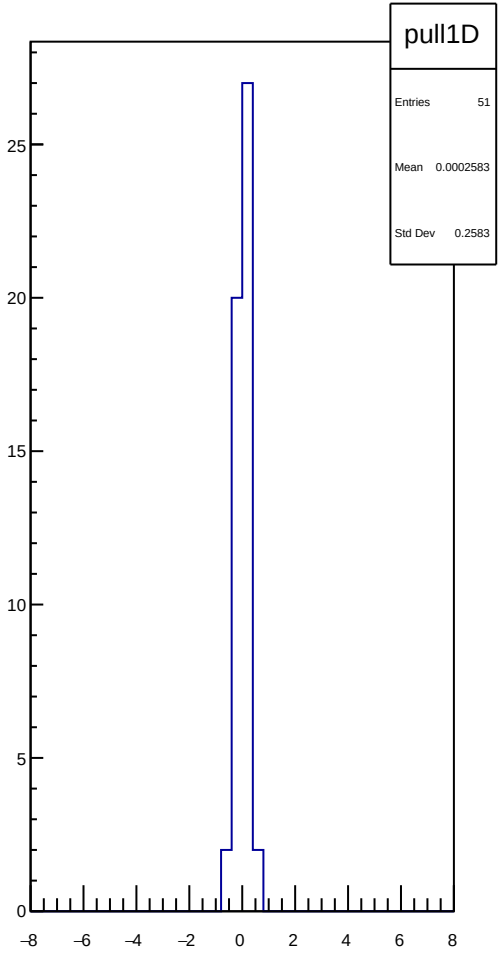
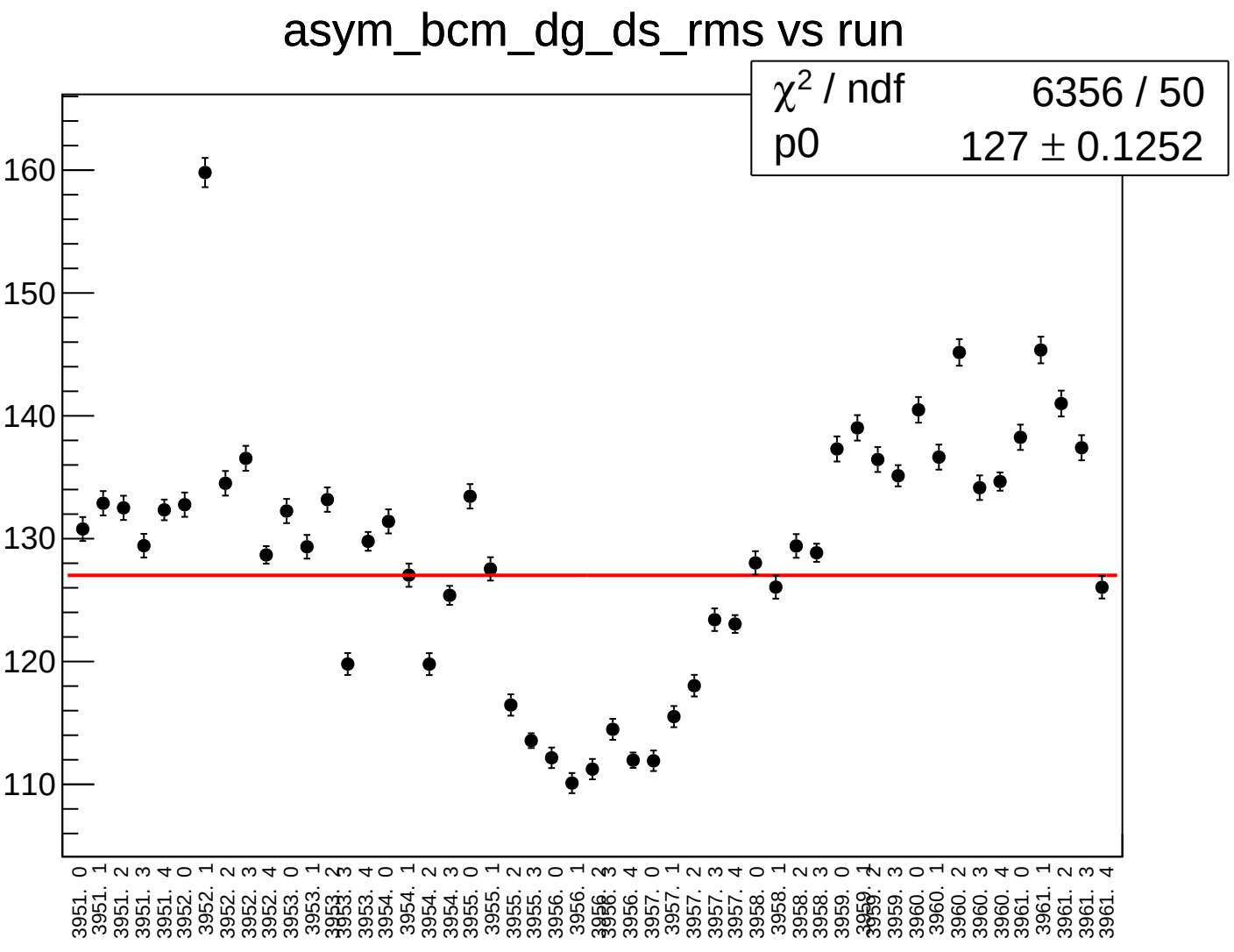
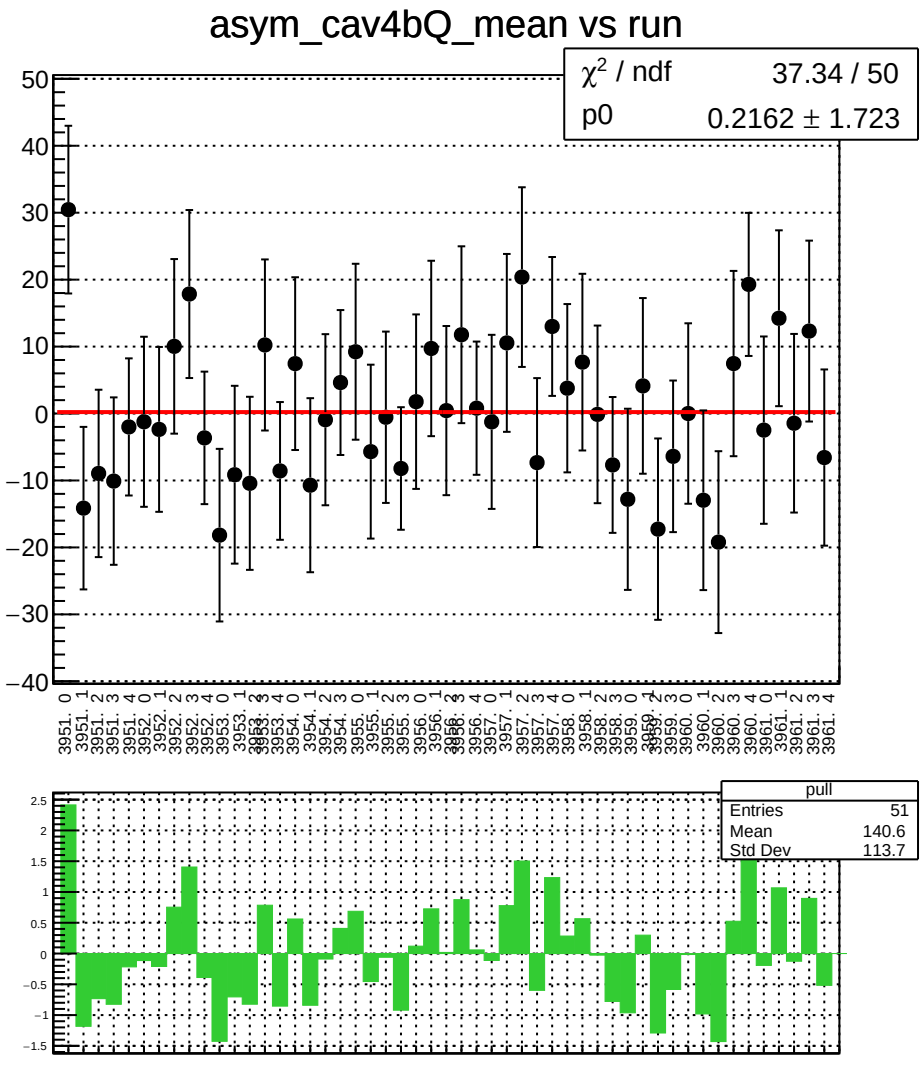
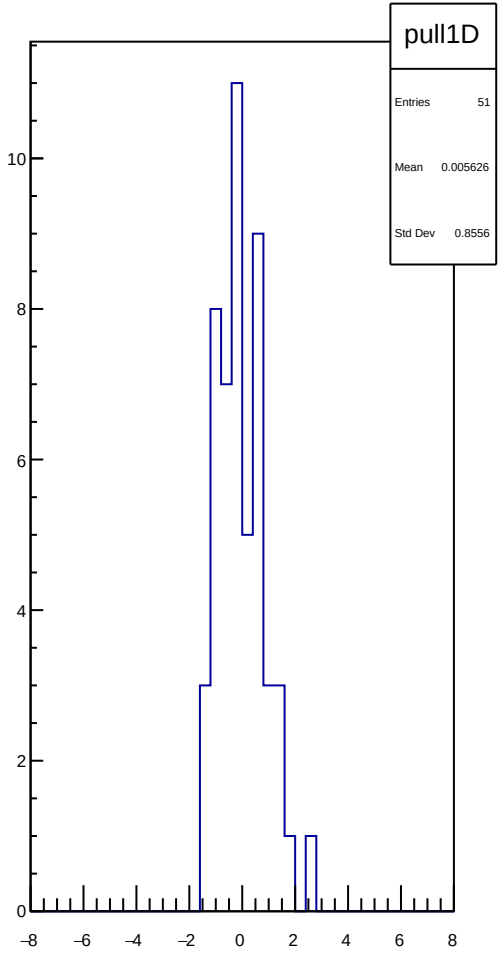
3961. 4

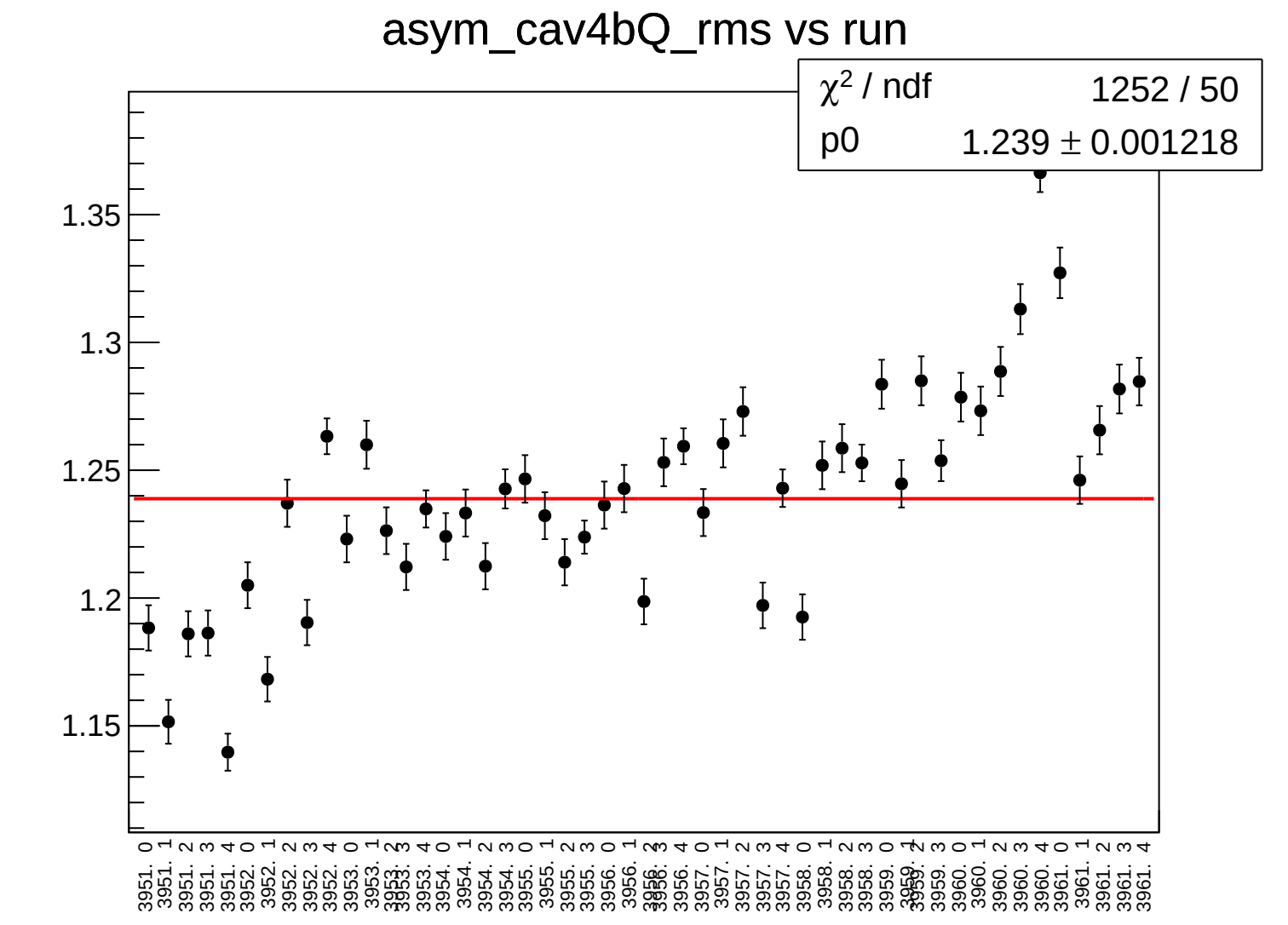

asym_bcm_dg_ds_mean vs run
χ² / ndf 3.404 / 50
p0 57.93 ± 177
pull
Entries 51
Mean 2335
Std Dev 2313

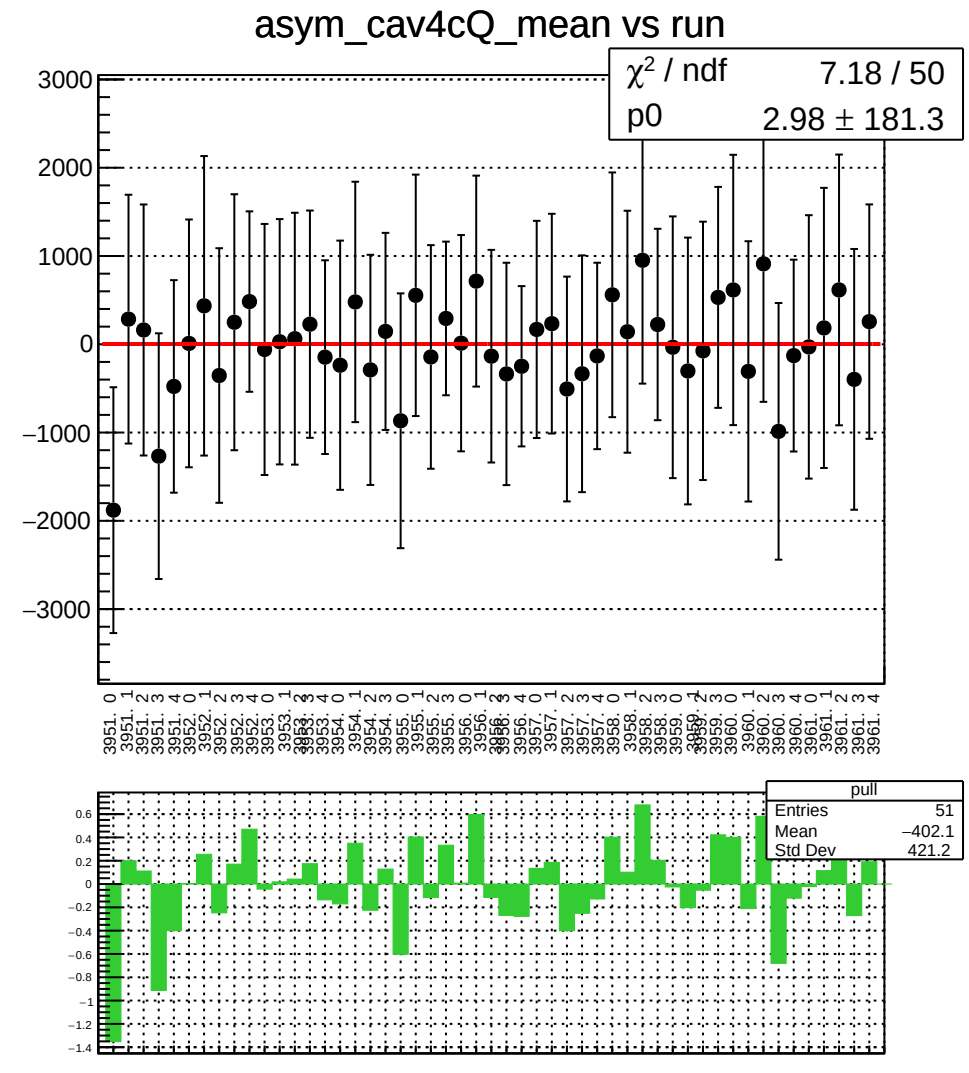

pull1D
Entries 51
Mean 0.0002583
Std Dev 0.2583

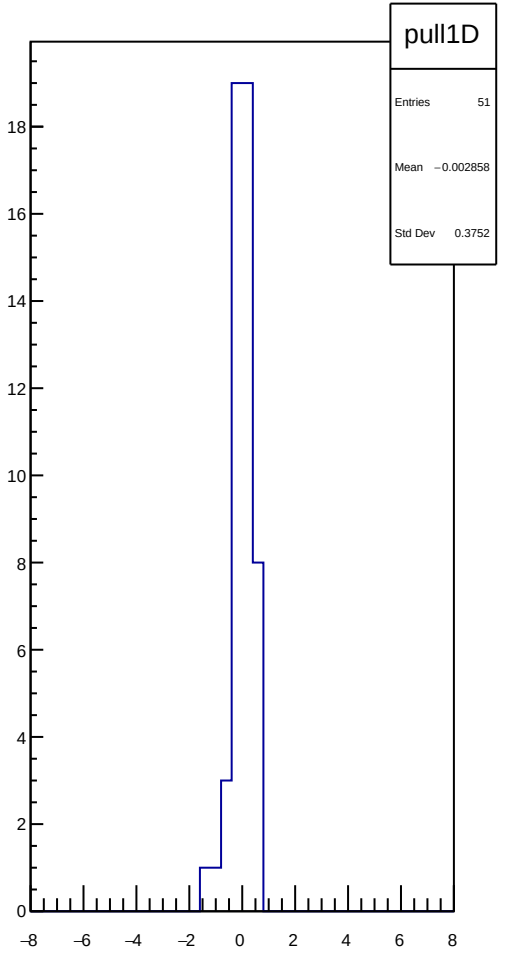

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 6356 / 50
p0 127 ± 0.1252
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

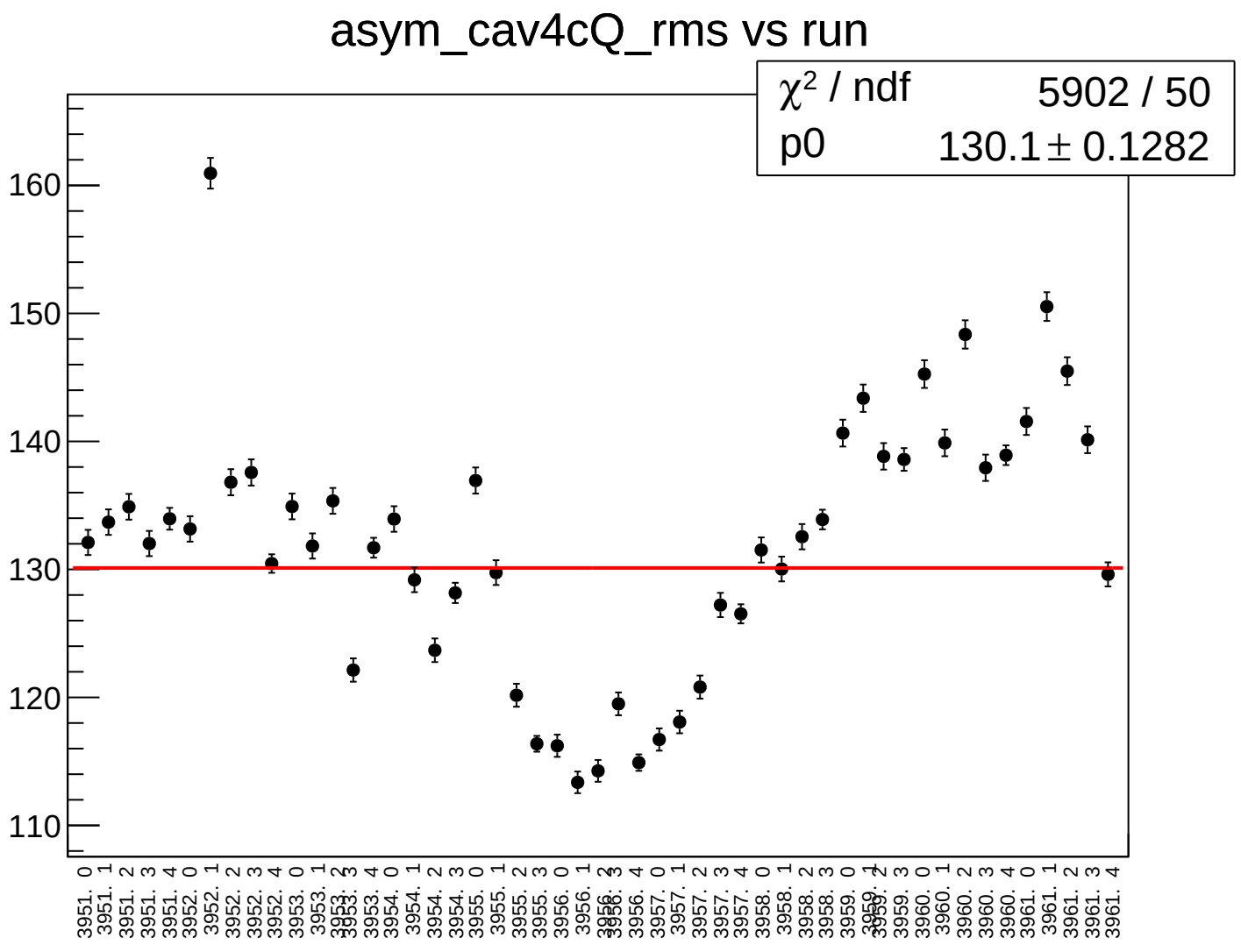

asym_cav4bQ_mean vs run
χ² / ndf 37.34 / 50
p0 0.2162 ± 1.723
pull
Entries 51
Mean 140.6
Std Dev 113.7

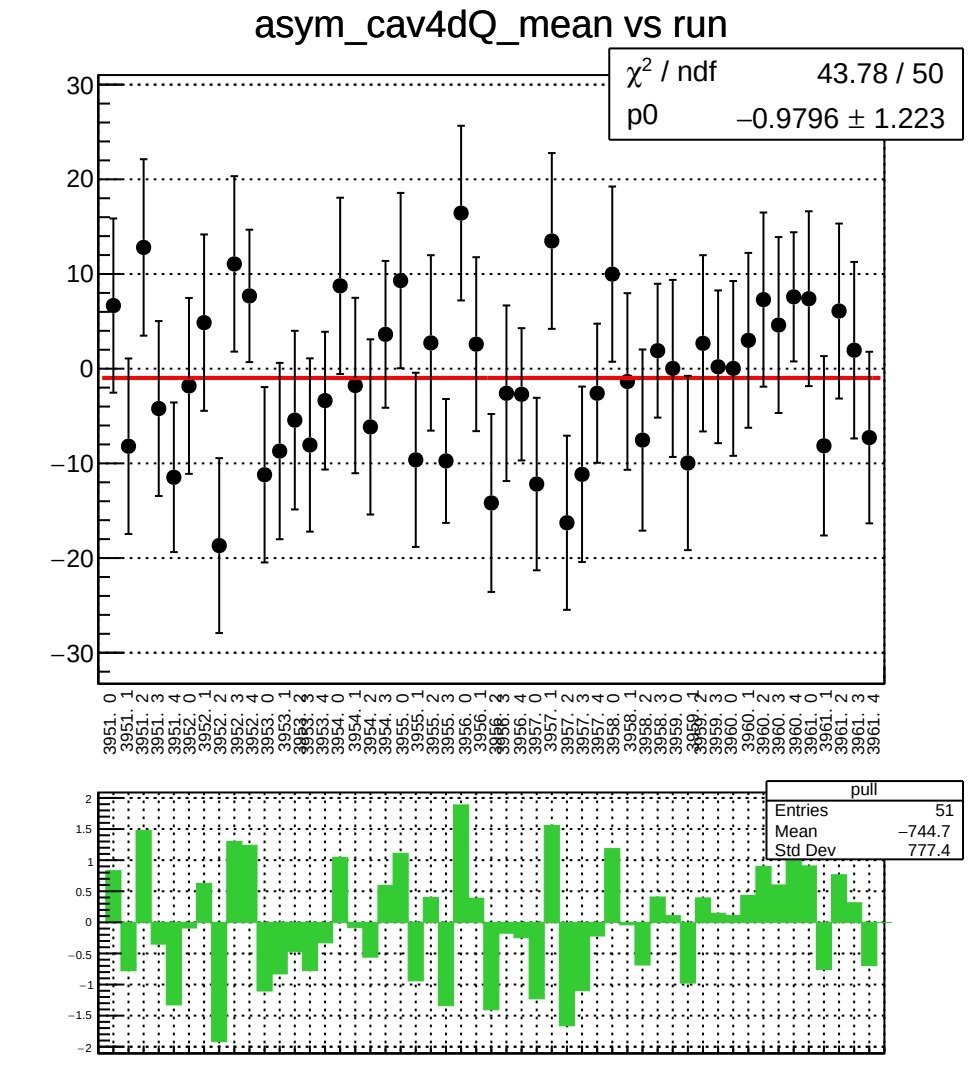

pull1D
Entries 51
Mean 0.005626
Std Dev 0.8556

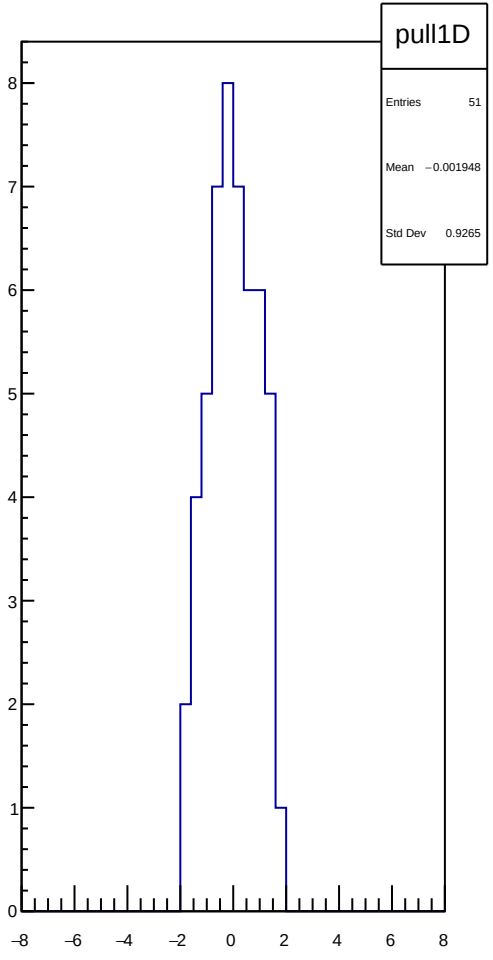

asym_cav4bQ_rms vs run
χ² / ndf 1252 / 50
p0 1.239 ± 0.001218
1.35
1.3
1.25
1.2
1.15
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

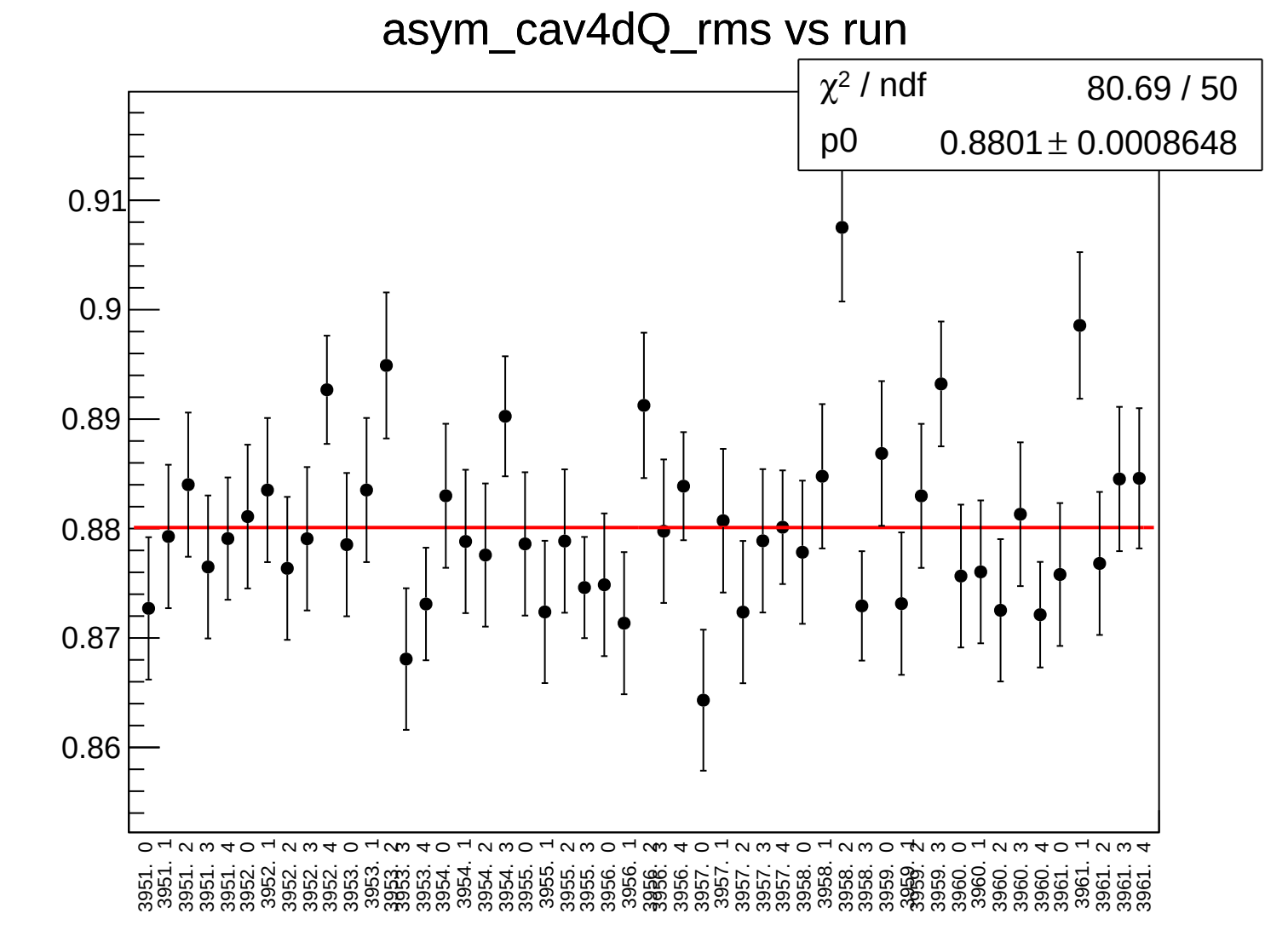

asym_cav4cQ_mean vs run
χ² / ndf 7.18 / 50
p0 2.98 ± 181.3
pull
Entries 51
Mean −402.1
Std Dev 421.2

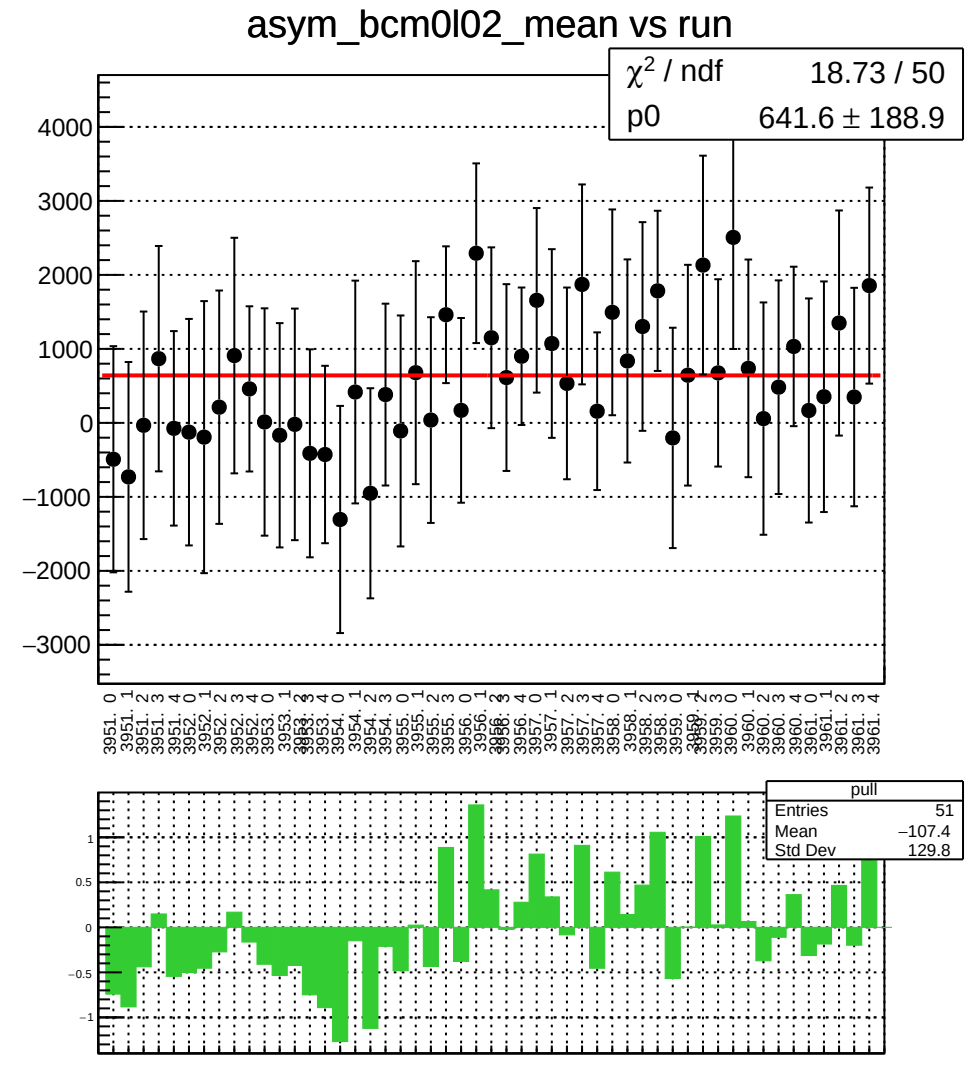

pull1D
Entries 51
Mean −0.002858
Std Dev 0.3752

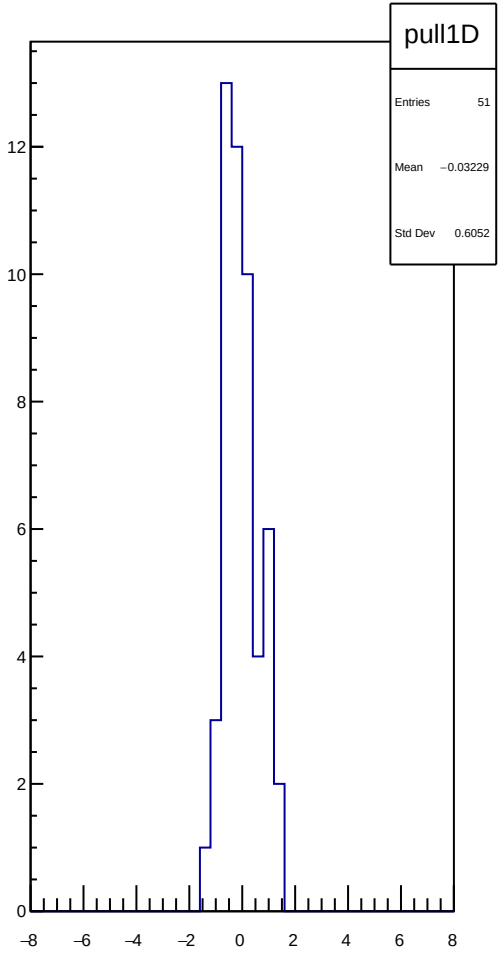

asym_cav4cQ_rms vs run
χ² / ndf 5902 / 50
p0 130.1 ± 0.1282
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

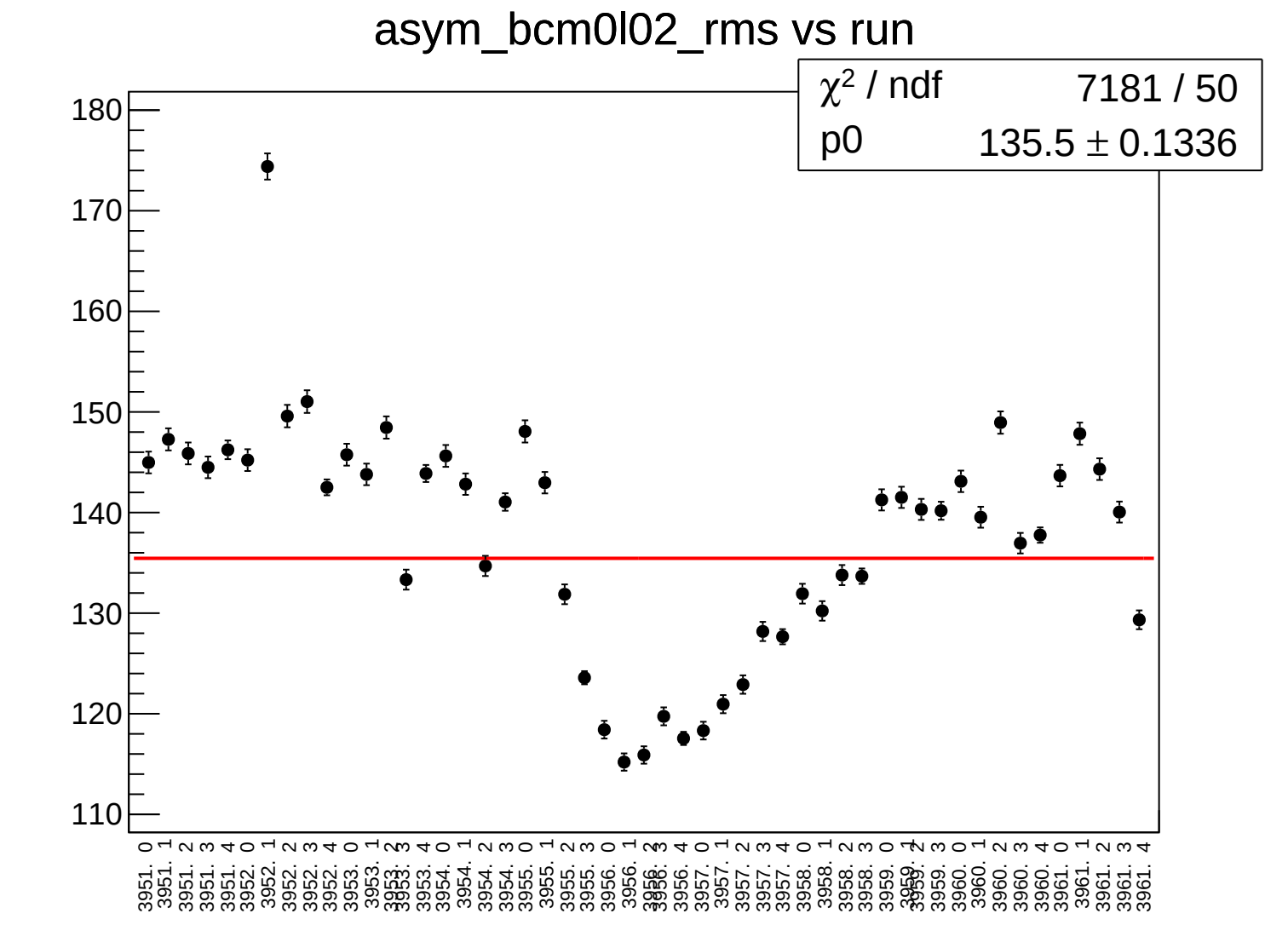

asym_cav4dQ_mean vs run
χ² / ndf 43.78 / 50
p0 −0.9796 ± 1.223
pull
Entries 51
Mean −744.7
Std Dev 777.4

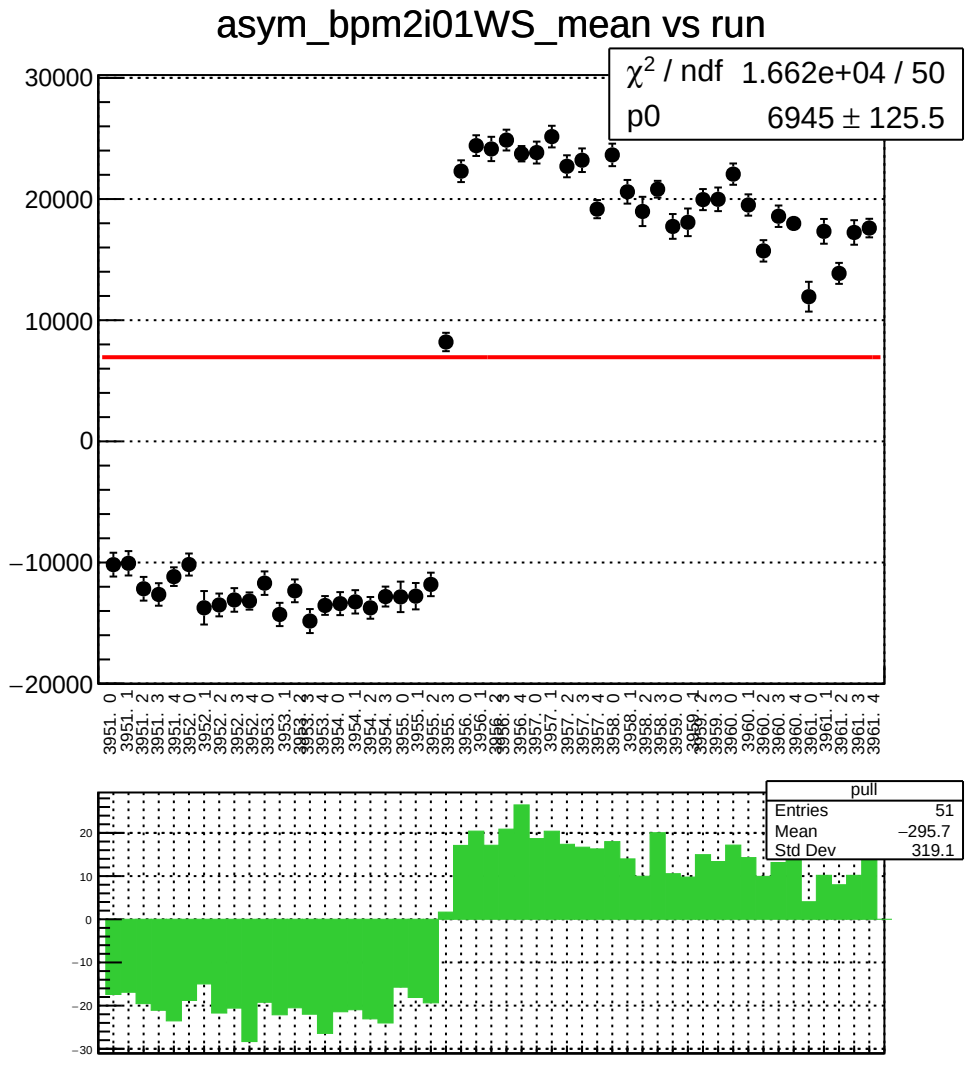

pull1D
Entries 51
Mean −0.001948
Std Dev 0.9265

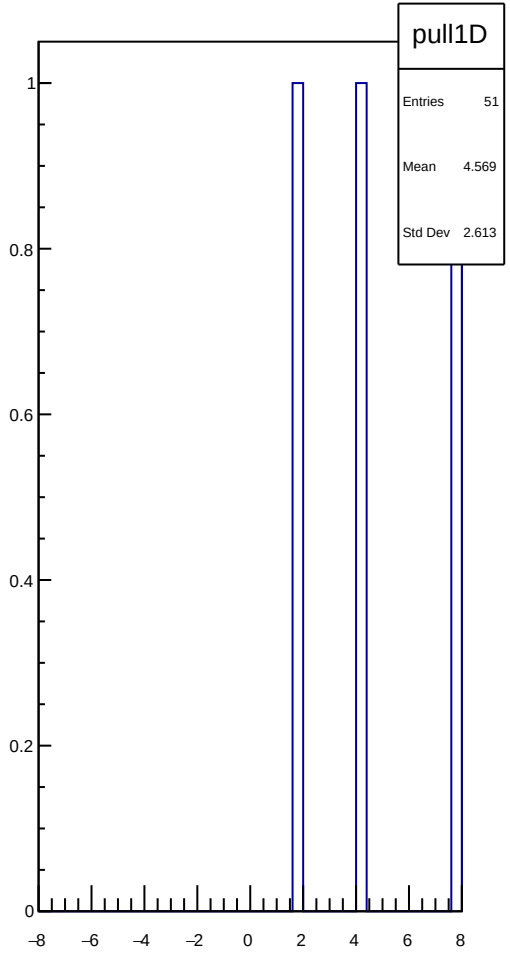

asym_cav4dQ_rms vs run
χ² / ndf 80.69 / 50
p0 0.8801 ± 0.0008648
0.91
0.9
0.89
0.88
0.87
0.86
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

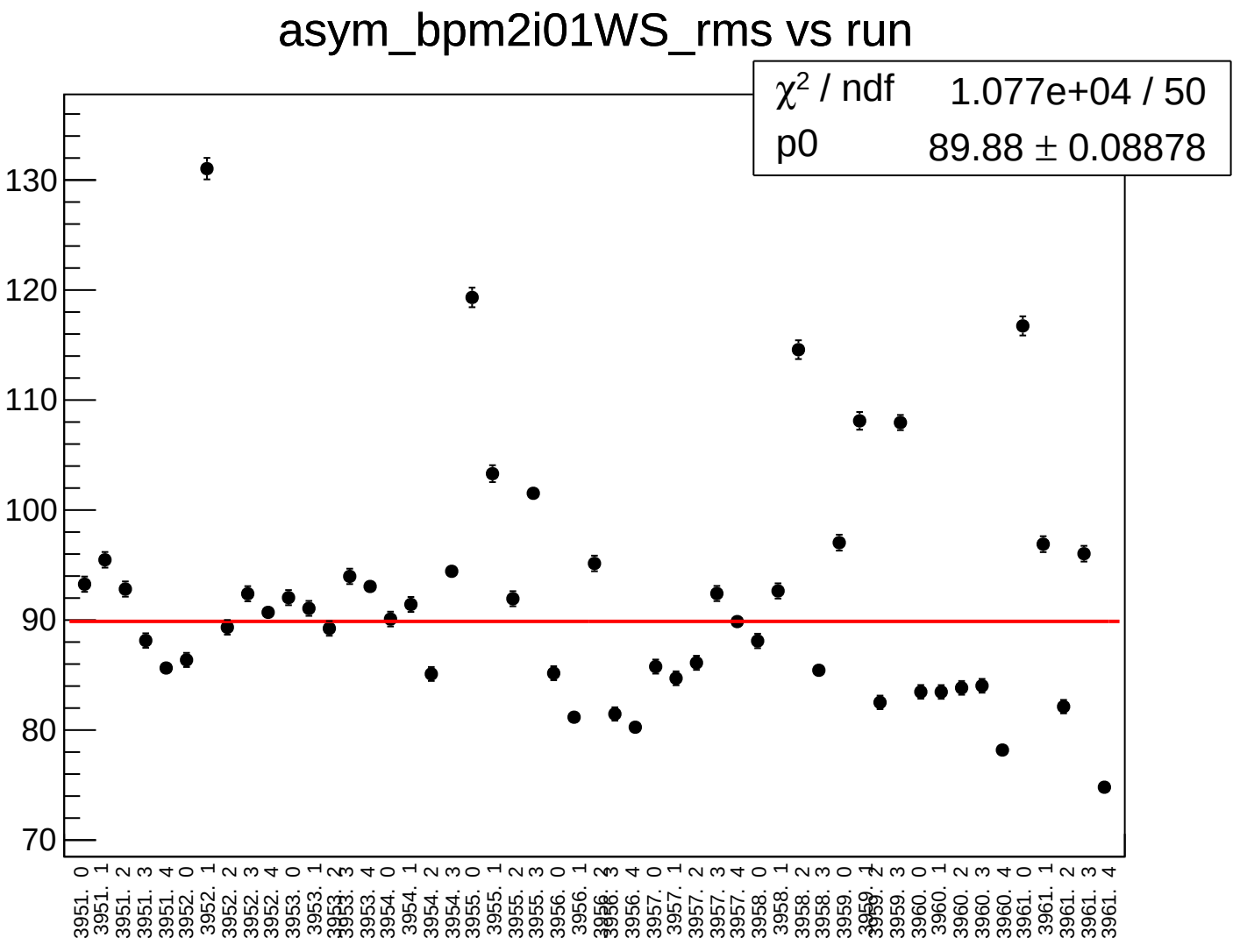

asym_bcm0l02_mean vs run
χ² / ndf 18.73 / 50
p0 641.6 ± 188.9
pull
Entries 51
Mean −107.4
Std Dev 129.8

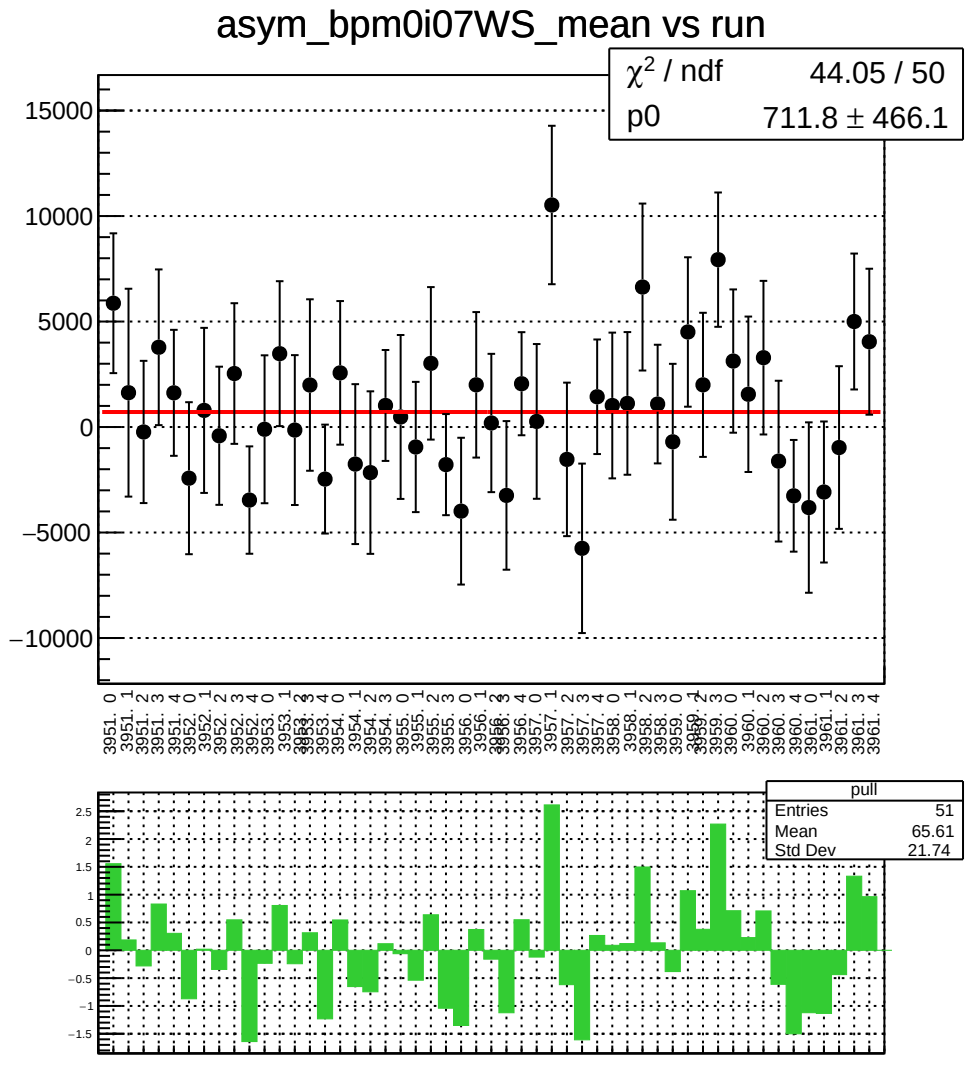

pull1D
Entries 51
Mean −0.03229
Std Dev 0.6052

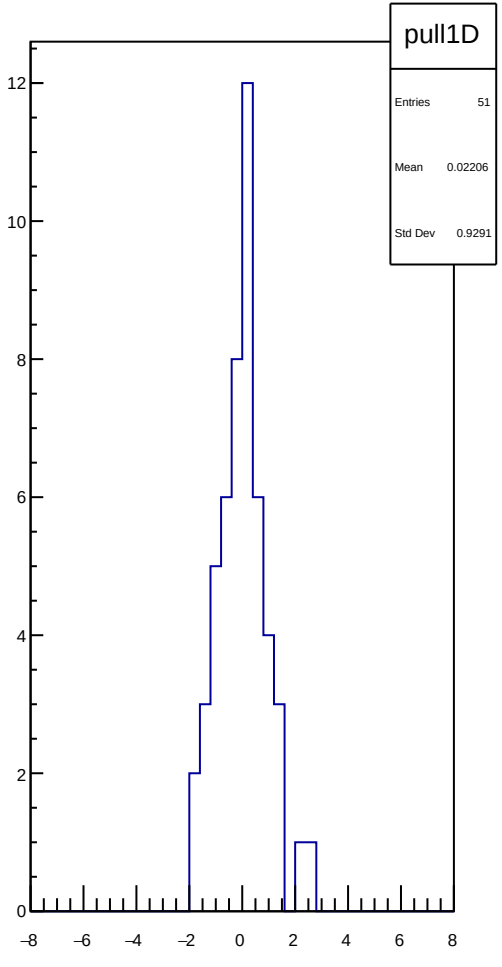

asym_bcm0l02_rms vs run
χ² / ndf 7181 / 50
p0 135.5 ± 0.1336
180
170
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

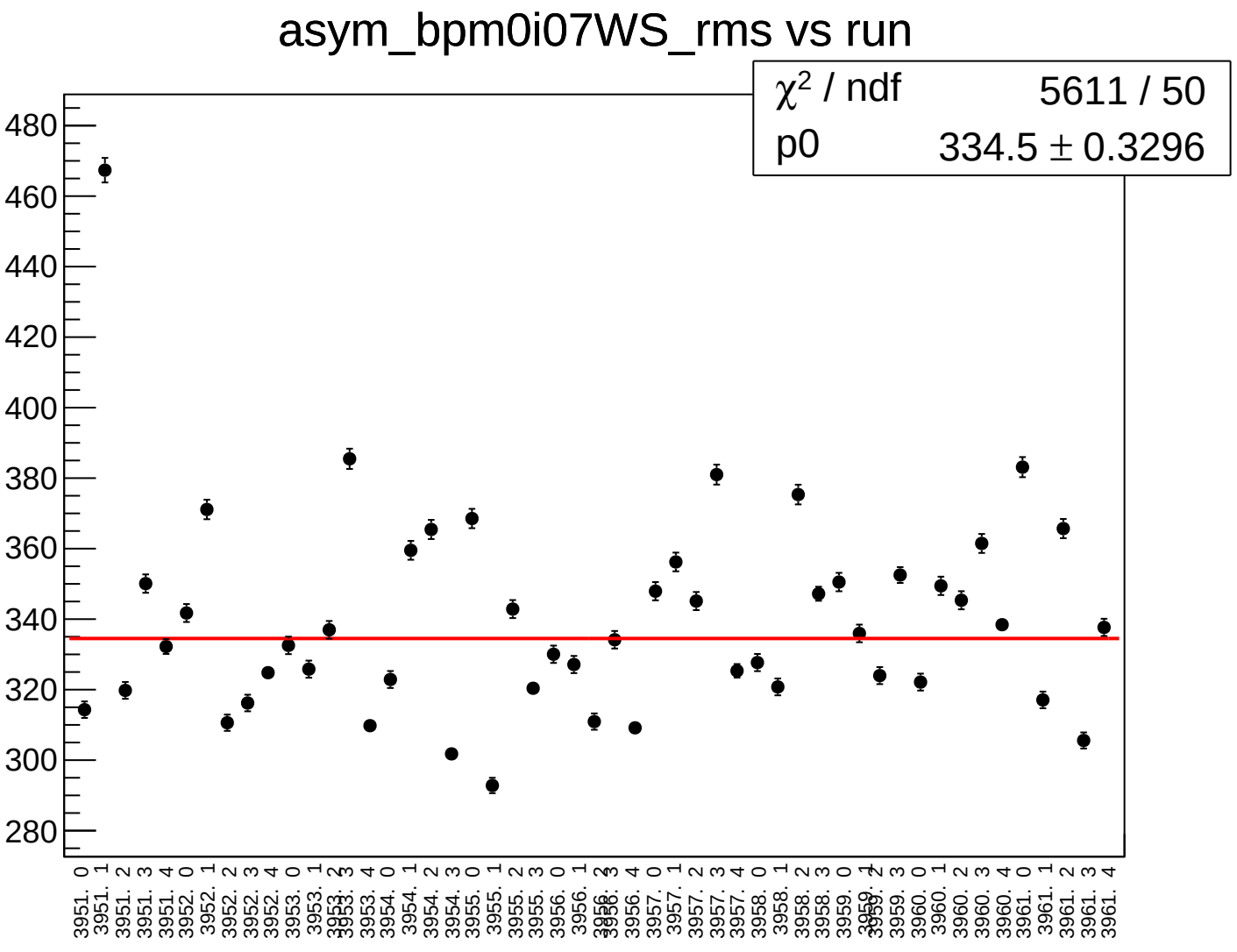

asym_bpm2i01WS_mean vs run
χ² / ndf 1.662e+04 / 50
p0 6945 ± 125.5
pull
Entries 51
Mean −295.7
Std Dev 319.1

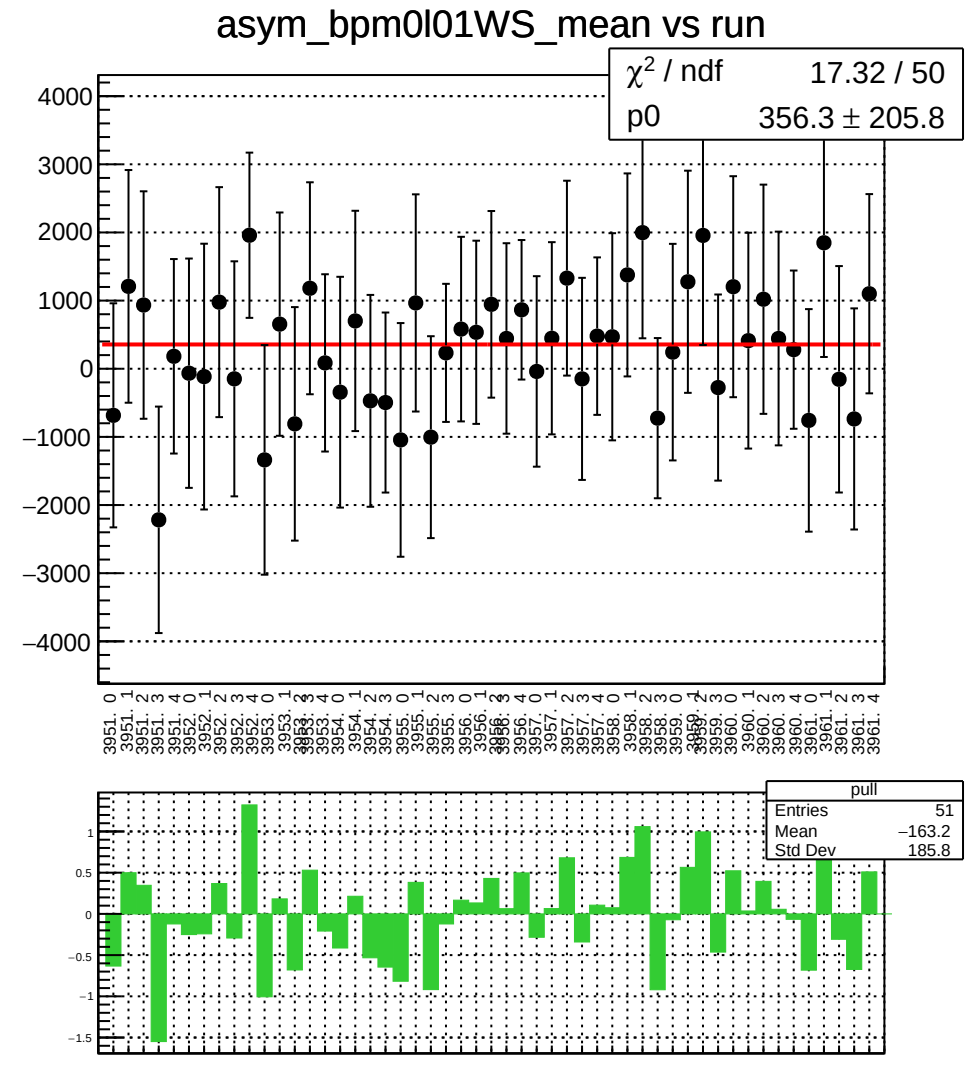

pull1D
Entries 51
Mean 4.569
Std Dev 2.613

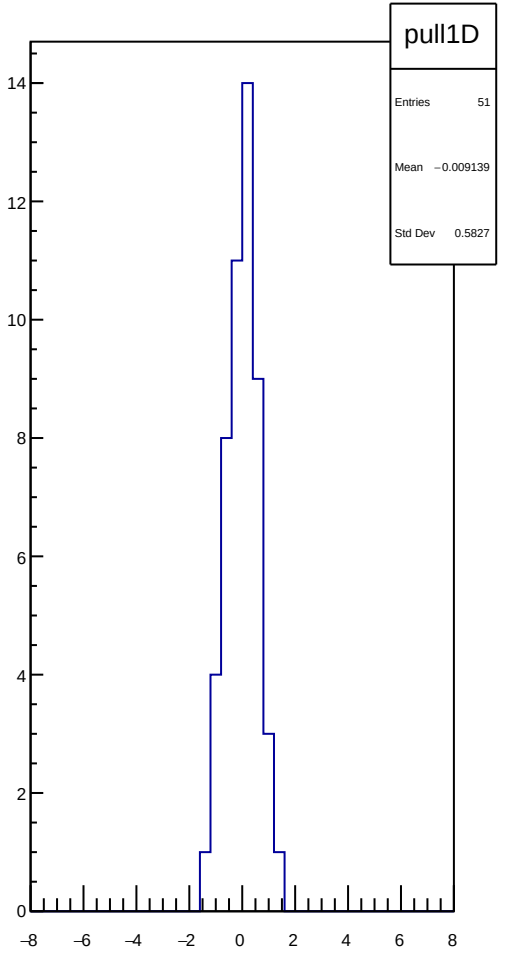

asym_bpm2i01WS_rms vs run
χ² / ndf 1.077e+04 / 50
p0 89.88 ± 0.08878
130
120
110
100
90
80
70
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

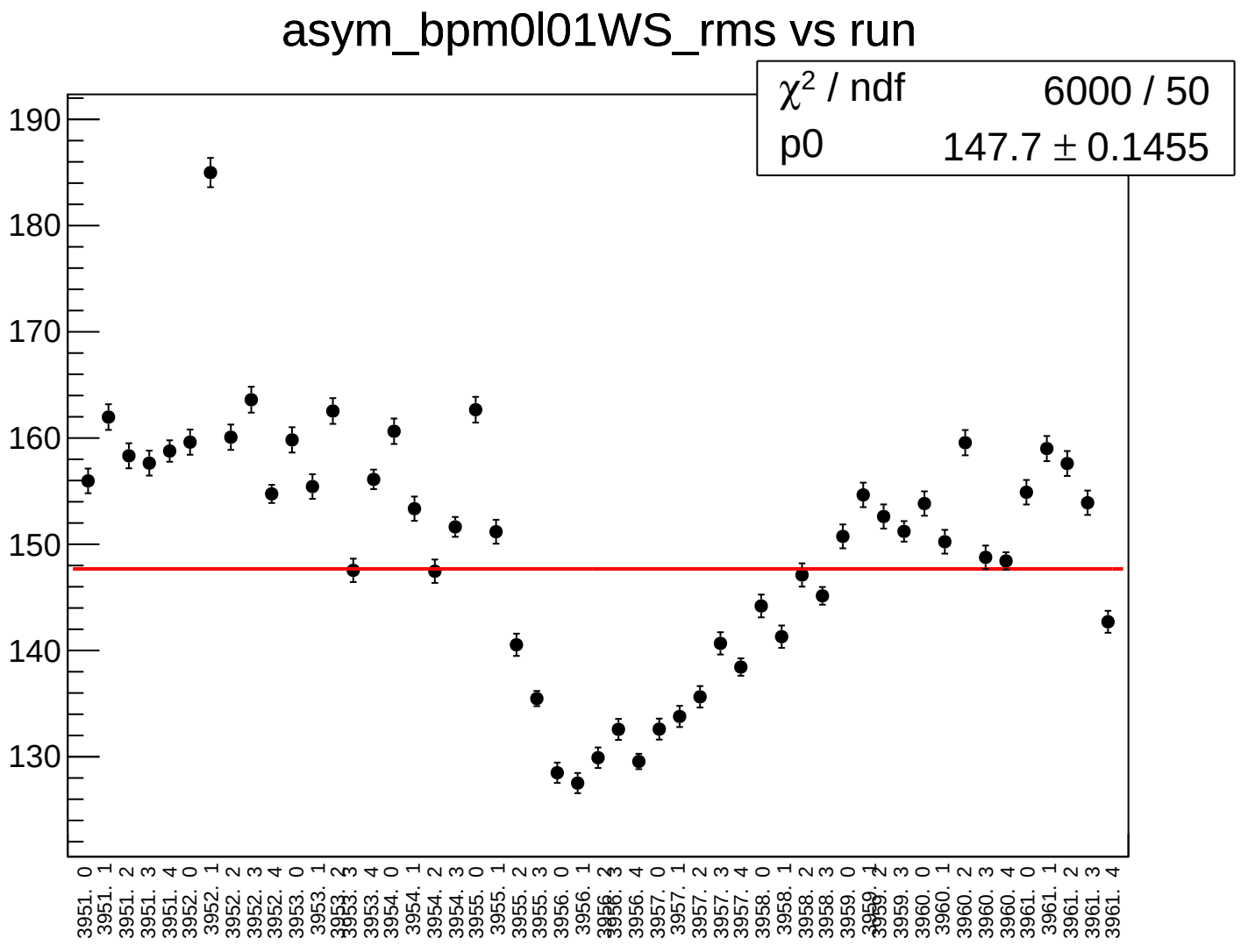

asym_bpm0i07WS_mean vs run
χ² / ndf 44.05 / 50
p0 711.8 ± 466.1
15000
10000
5000
0
−5000
−10000
pull
Entries 51
Mean 65.61
Std Dev 21.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

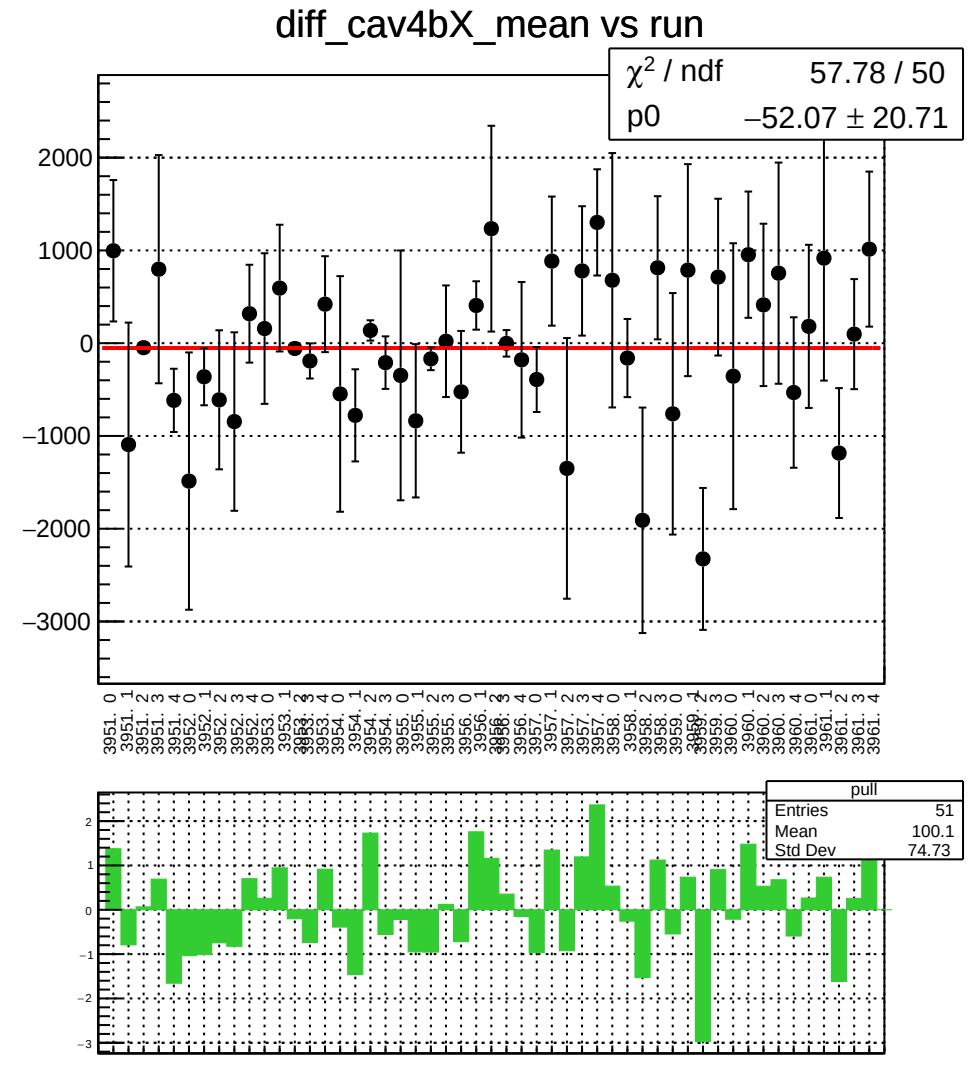

pull1D
Entries 51
Mean 0.02206
Std Dev 0.9291
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

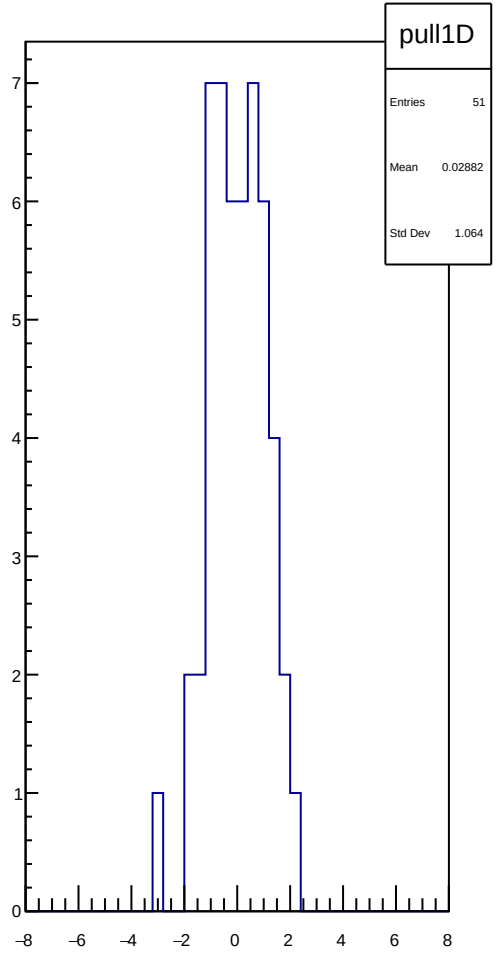

asym_bpm0i07WS_rms vs run
χ² / ndf 5611 / 50
p0 334.5 ± 0.3296
480
460
440
420
400
380
360
340
320
300
280
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

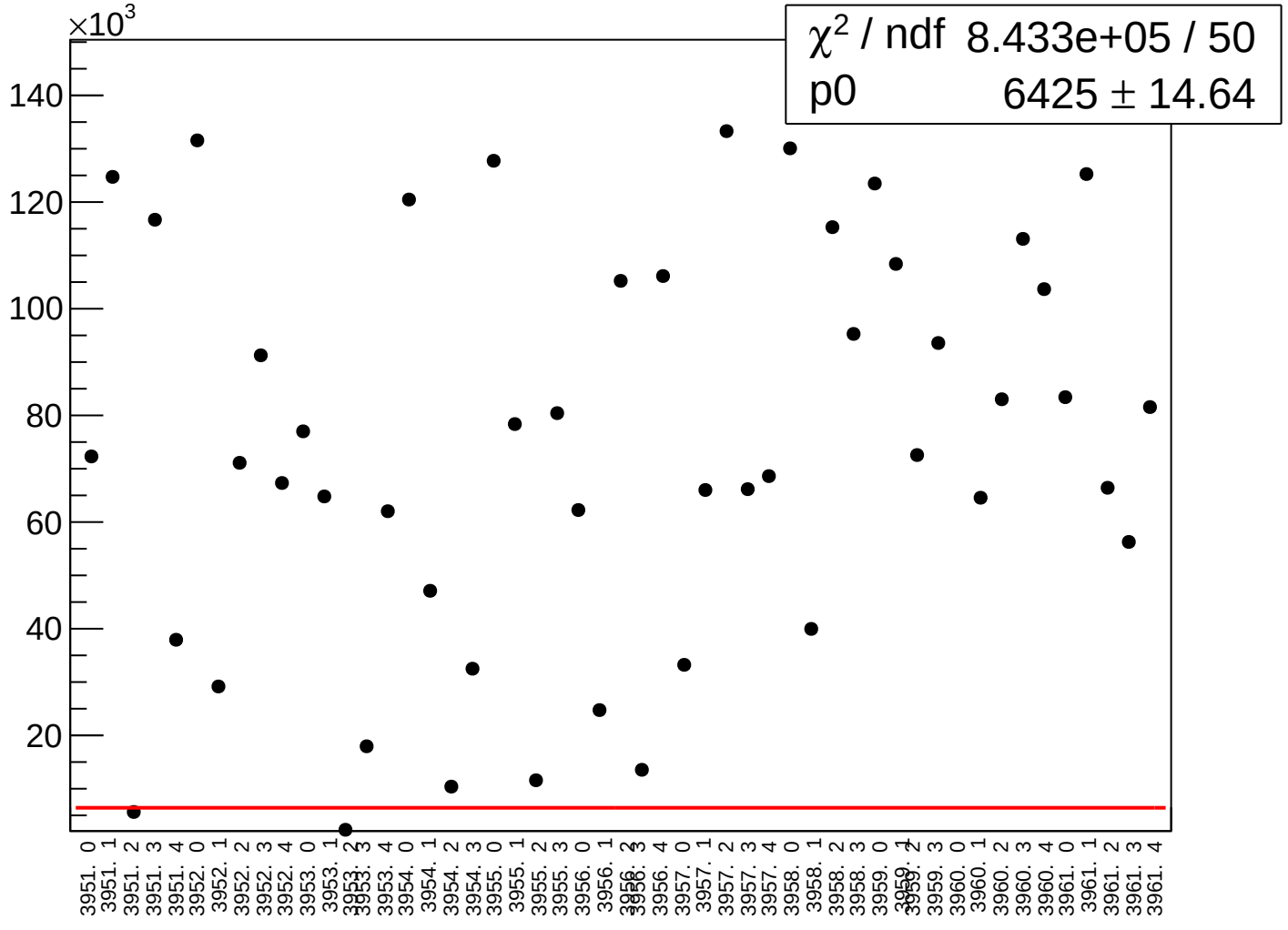

asym_bpm0l01WS_mean vs run
χ² / ndf 17.32 / 50
p0 356.3 ± 205.8
pull
Entries 51
Mean −163.2
Std Dev 185.8

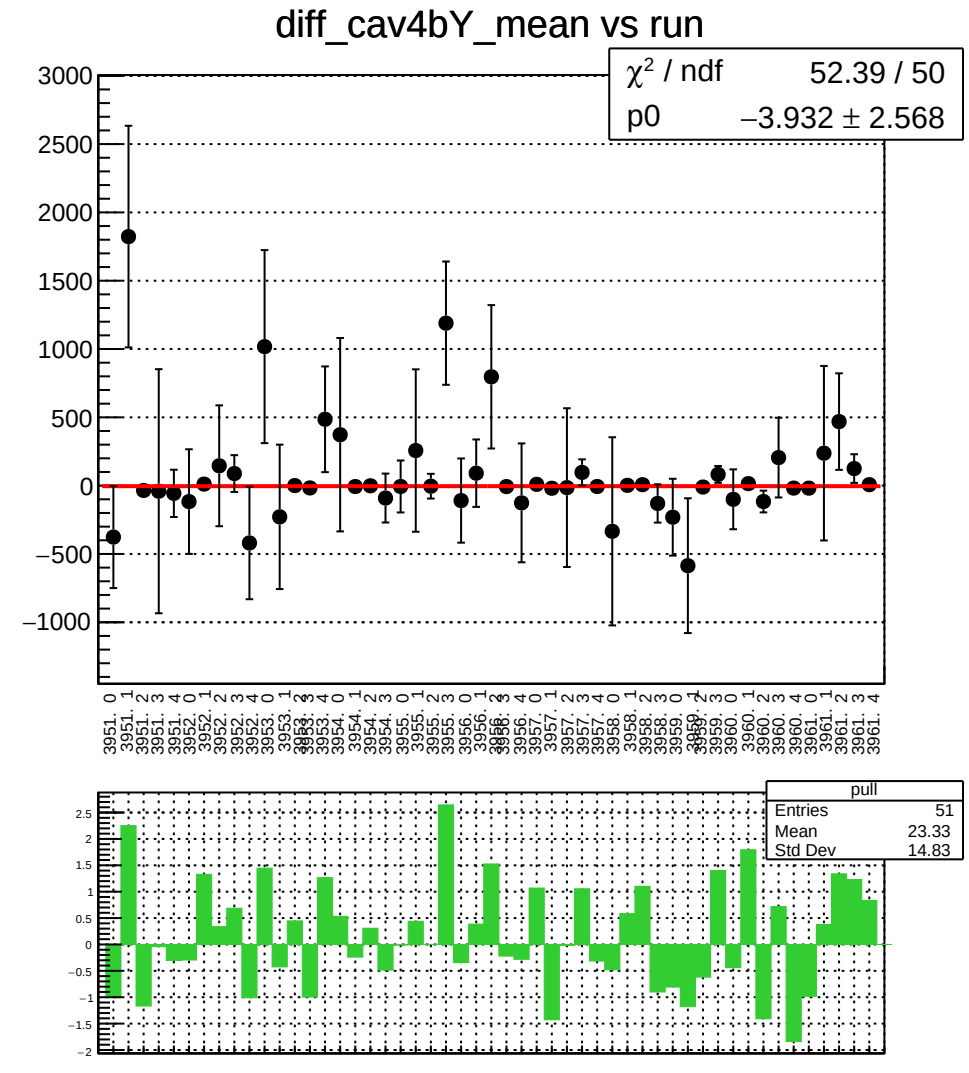

pull1D
Entries 51
Mean −0.009139
Std Dev 0.5827

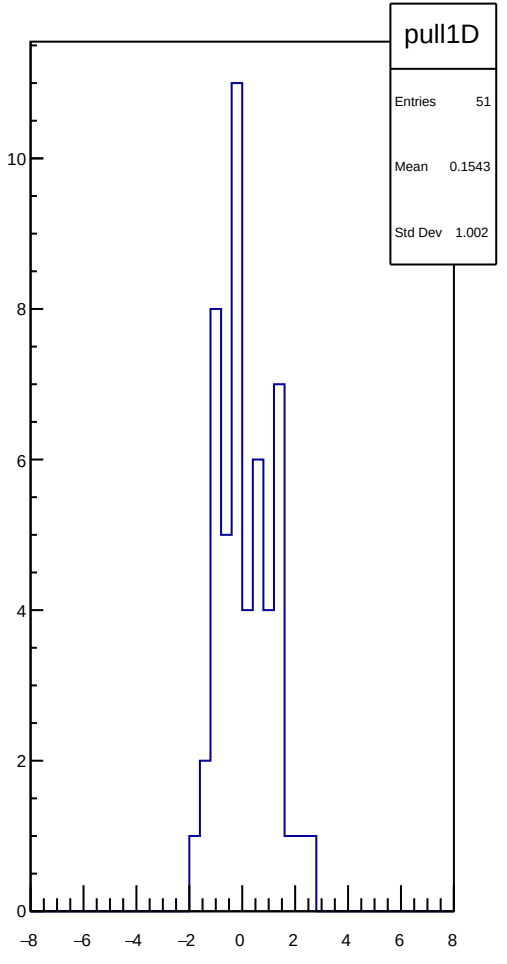

asym_bpm0l01WS_rms vs run
χ² / ndf 6000 / 50
p0 147.7 ± 0.1455
190
180
170
160
150
140
130
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

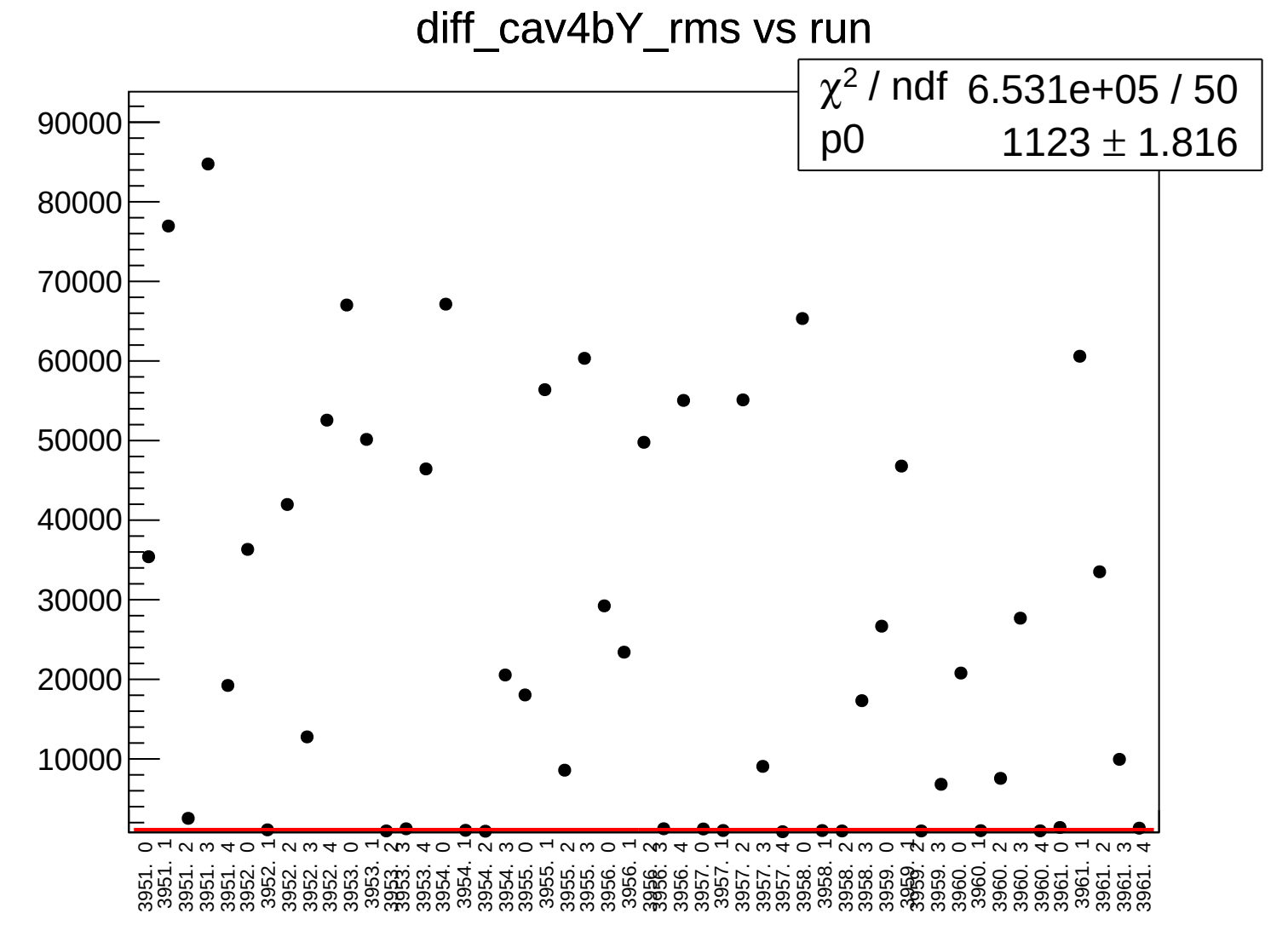

diff_cav4bX_mean vs run
χ² / ndf 57.78 / 50
p0 −52.07 ± 20.71
2000
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean 100.1
Std Dev 74.73
2
1
0
−1
−2
−3

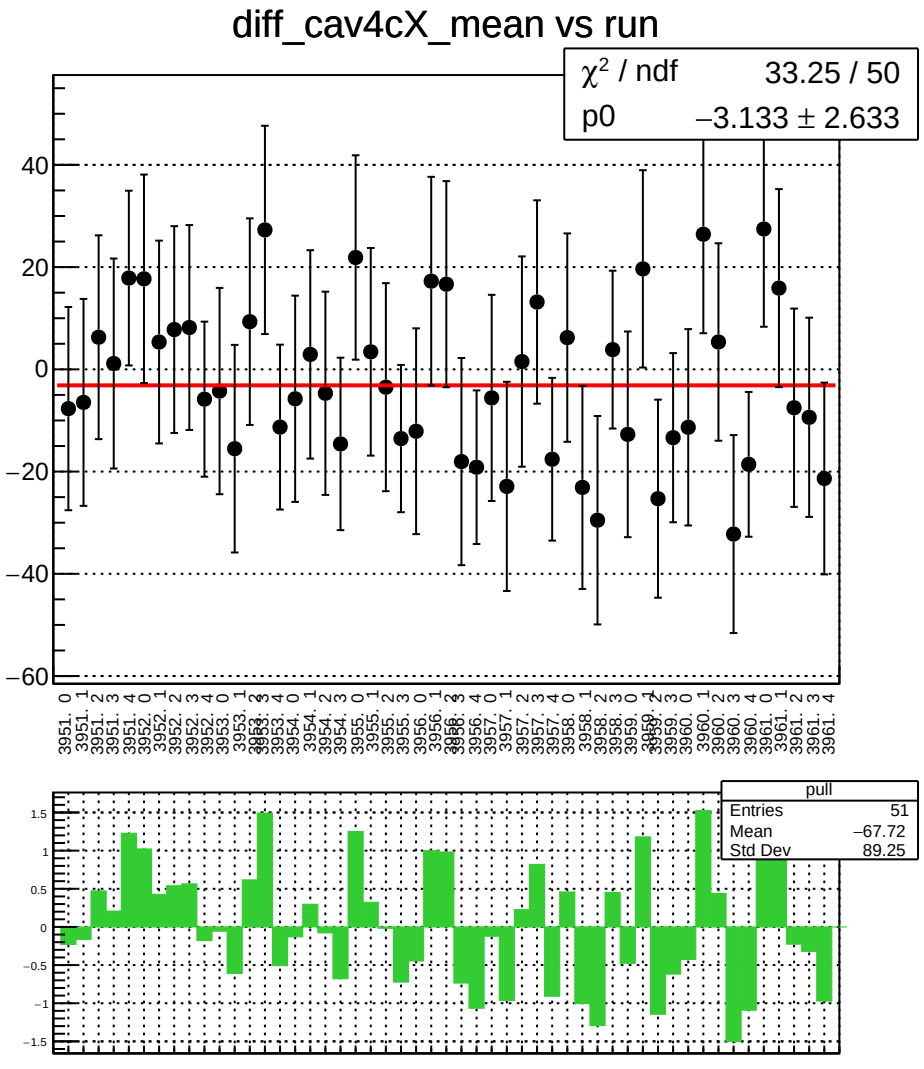

pull1D
Entries 51
Mean 0.02882
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

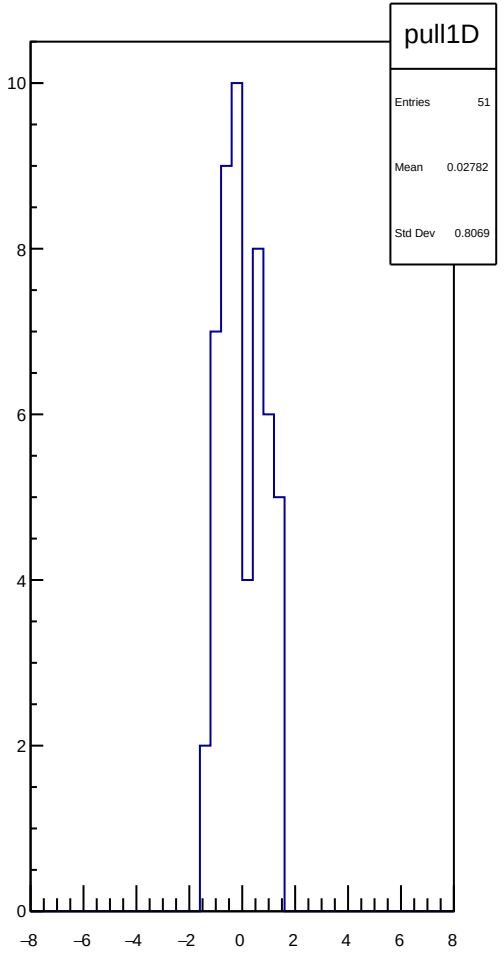

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 8.433e+05 / 50
p0 6425 ± 14.64
140
120
100
80
60
40
20
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

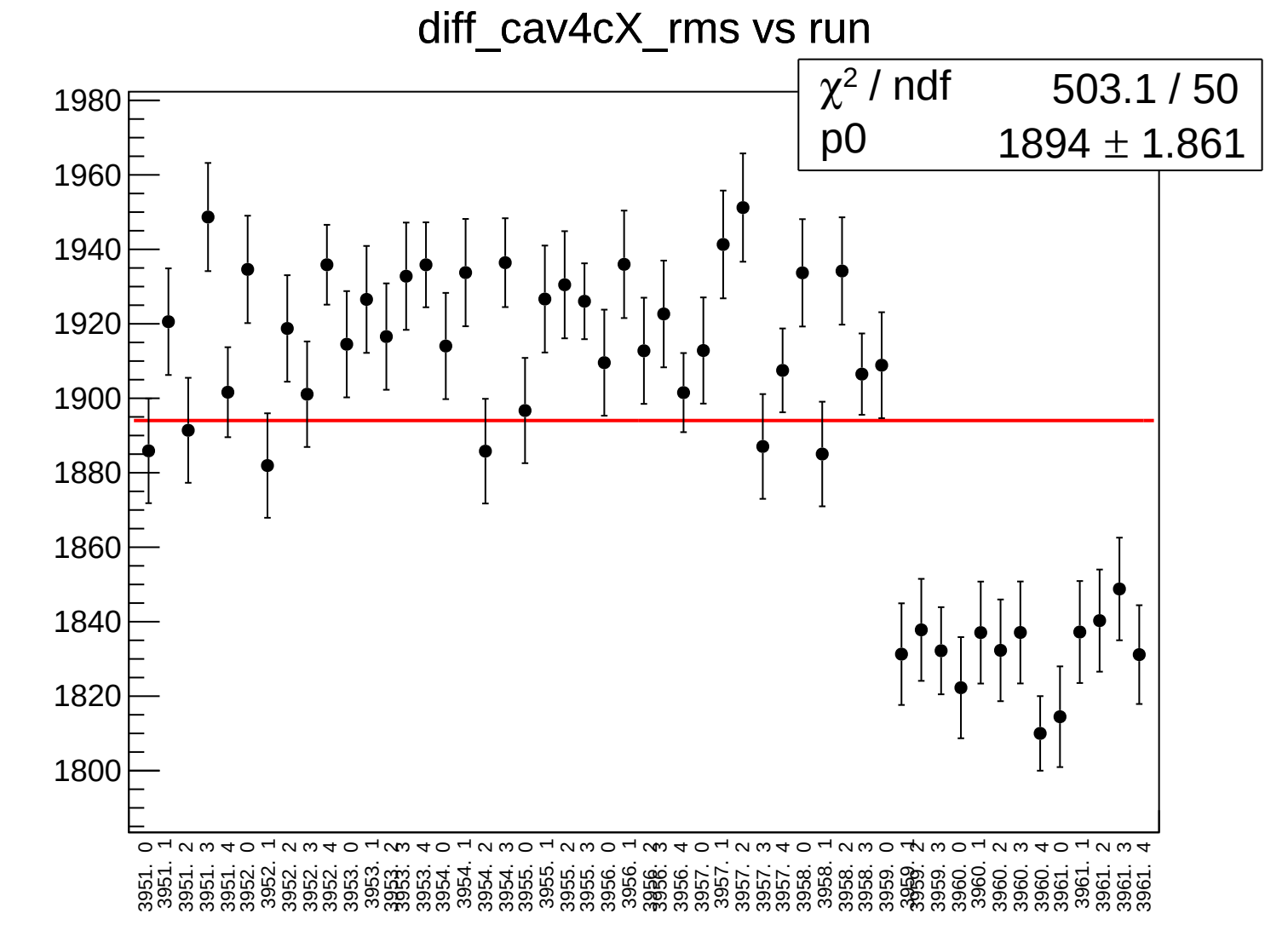

diff_cav4bY_mean vs run
χ² / ndf 52.39 / 50
p0 −3.932 ± 2.568
pull
Entries 51
Mean 23.33
Std Dev 14.83

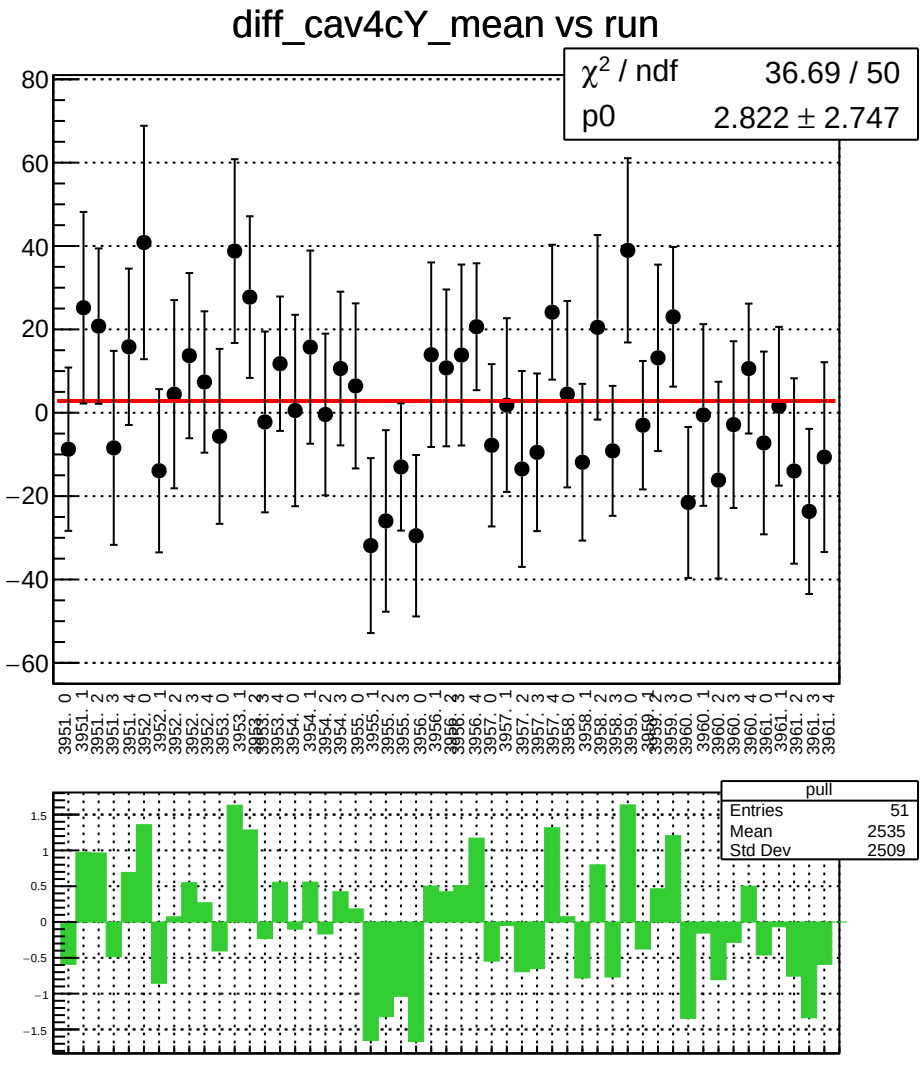

pull1D
Entries 51
Mean 0.1543
Std Dev 1.002

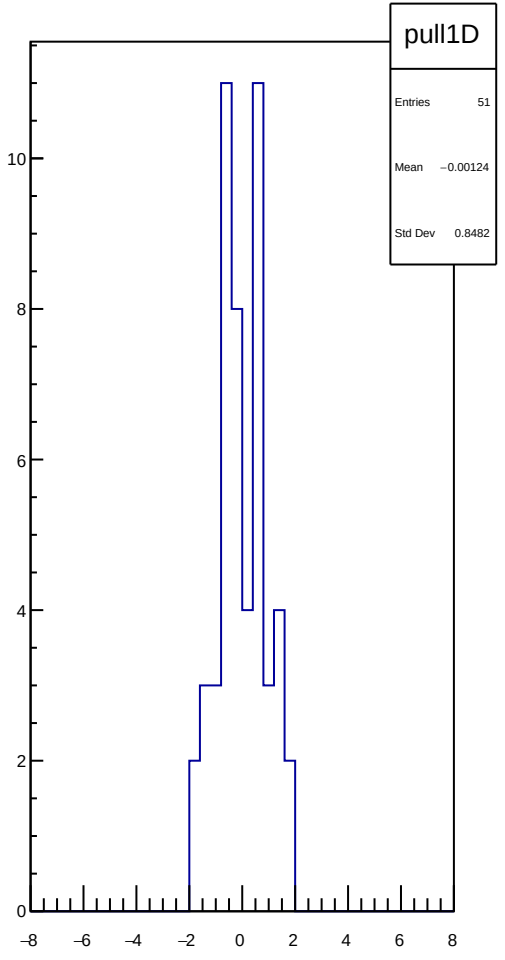

diff_cav4bY_rms vs run
χ² / ndf 6.531e+05 / 50
p0 1123 ± 1.816
90000
80000
70000
60000
50000
40000
30000
20000
10000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

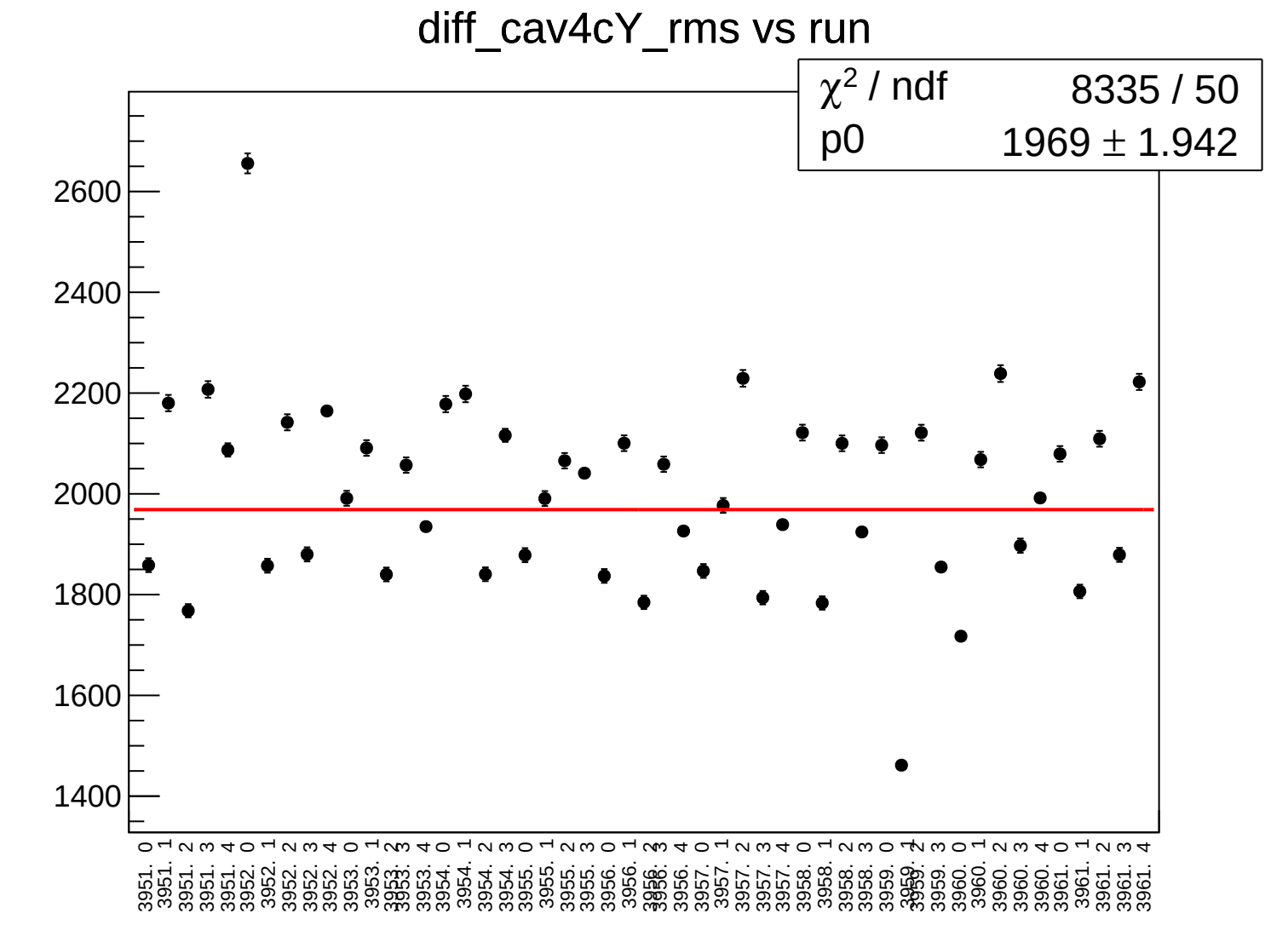

diff_cav4cX_mean vs run
χ² / ndf 33.25 / 50
p0 −3.133 ± 2.633
pull
Entries 51
Mean −67.72
Std Dev 89.25

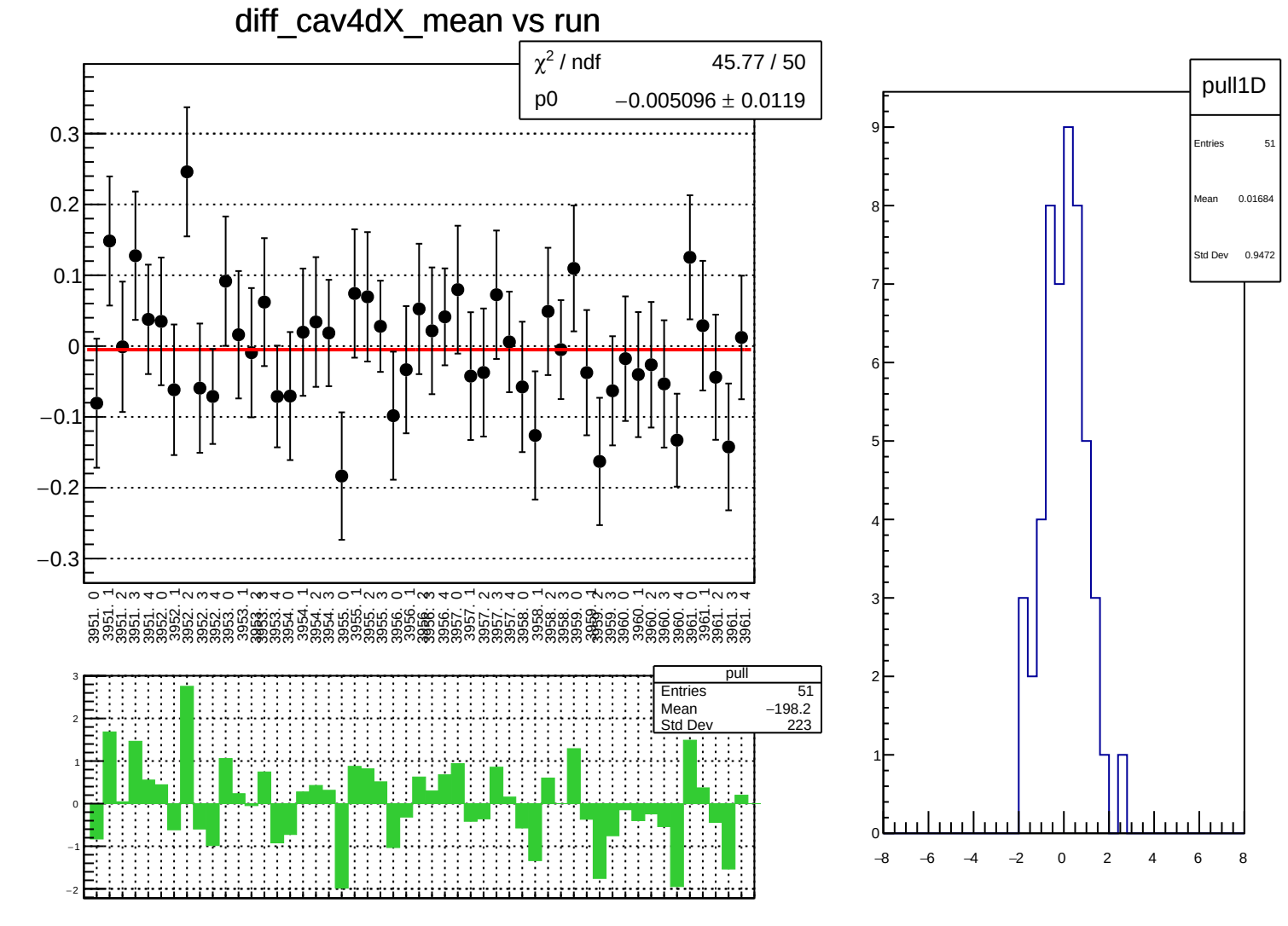

pull1D
Entries 51
Mean 0.02782
Std Dev 0.8069

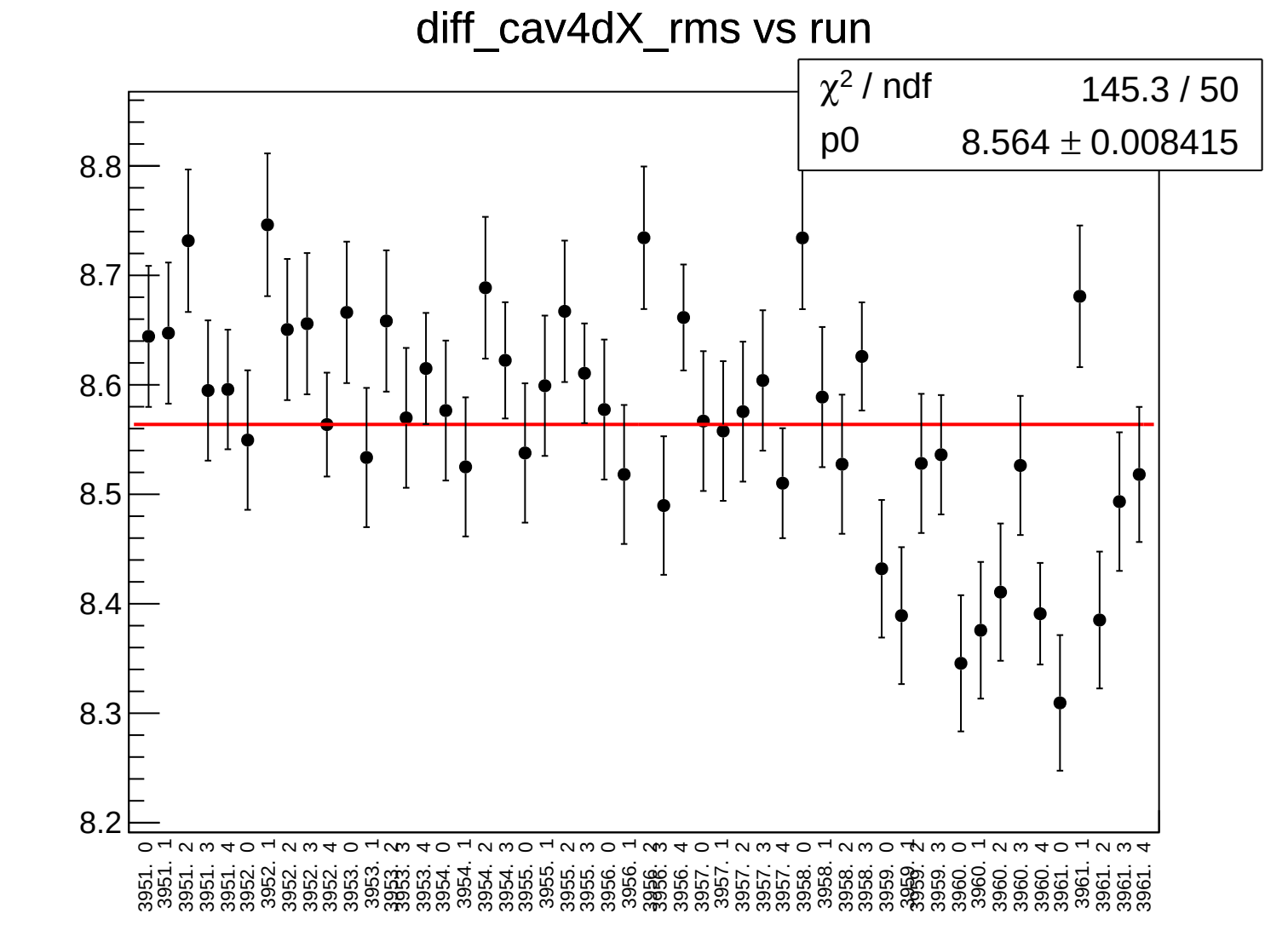

diff_cav4cX_rms vs run
χ² / ndf 503.1 / 50
p0 1894 ± 1.861
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

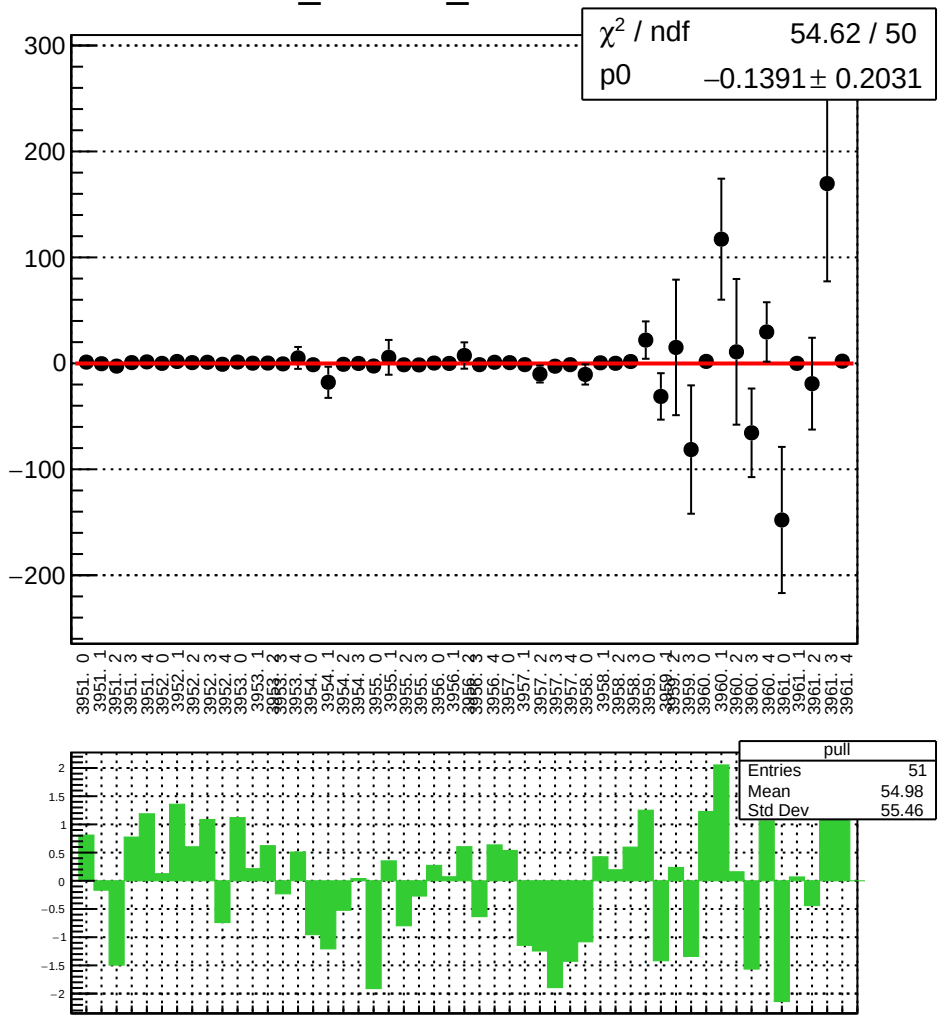

diff_cav4cY_mean vs run
χ² / ndf 36.69 / 50
p0 2.822 ± 2.747
pull
Entries 51
Mean 2535
Std Dev 2509

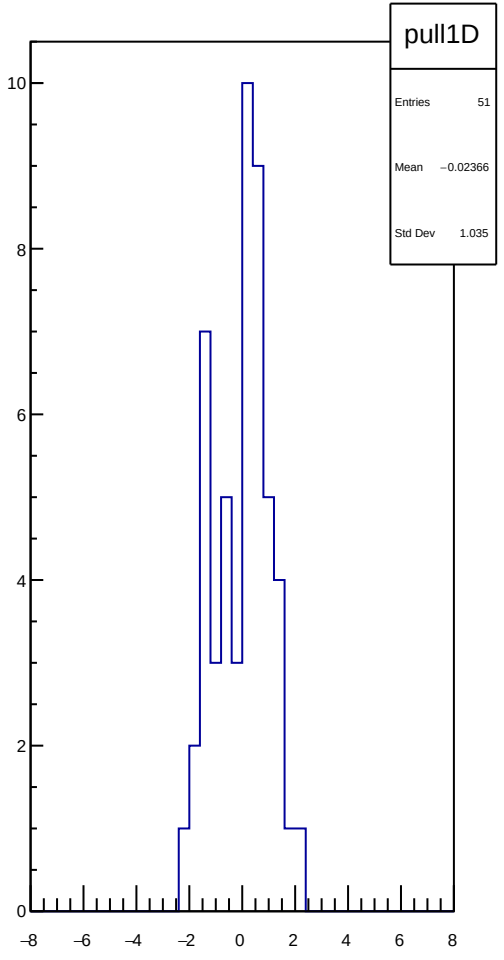

pull1D
Entries 51
Mean −0.00124
Std Dev 0.8482

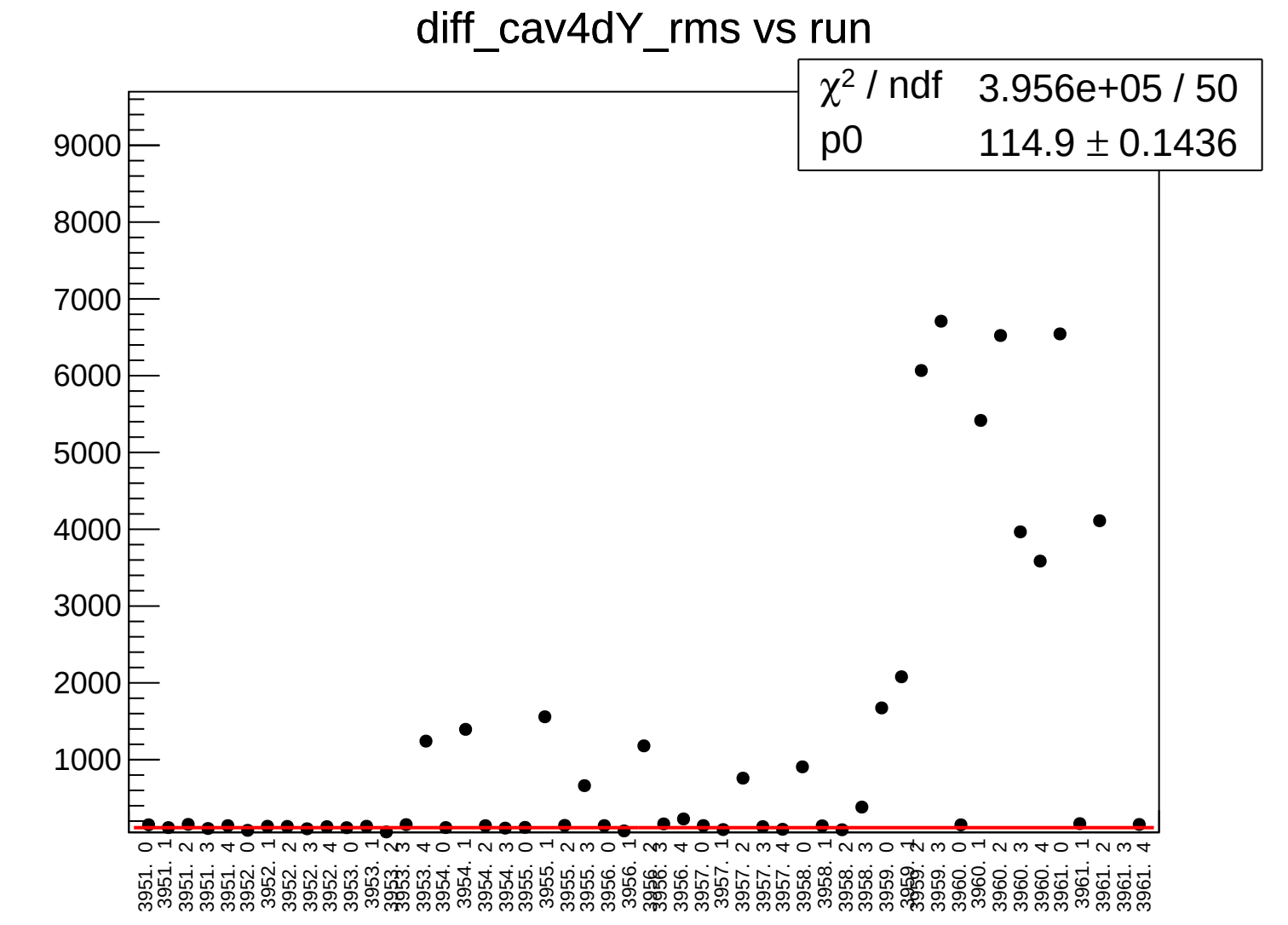

diff_cav4cY_rms vs run
χ² / ndf 8335 / 50
p0 1969 ± 1.942
2600
2400
2200
2000
1800
1600
1400
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

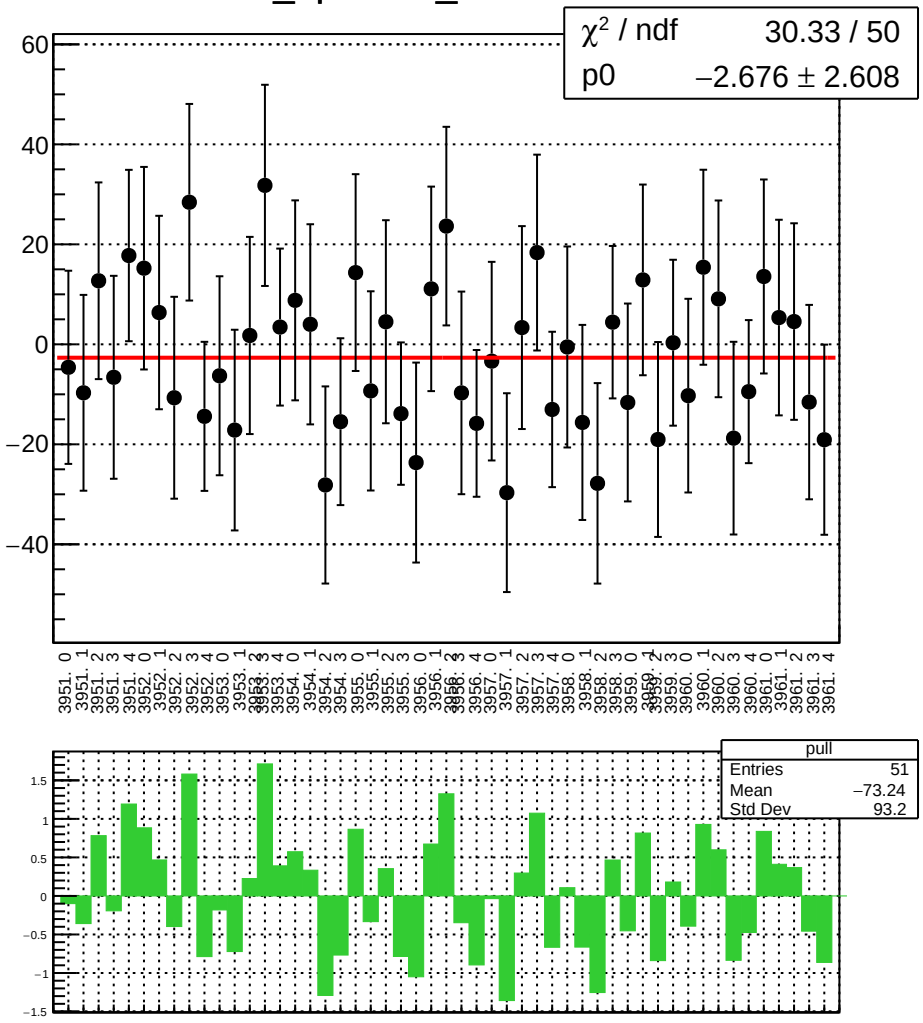

diff_cav4dX_mean vs run
χ² / ndf 45.77 / 50
p0 −0.005096 ± 0.0119
pull
Entries 51
Mean −198.2
Std Dev 223
pull1D
Entries 51
Mean 0.01684
Std Dev 0.9472

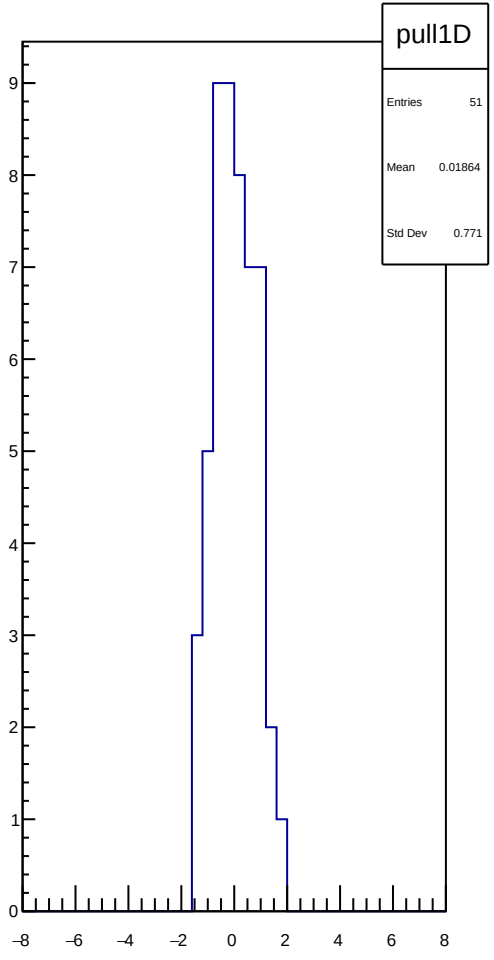

diff_cav4dX_rms vs run
χ^2 / ndf 145.3 / 50
p0 8.564 ± 0.008415
8.8
8.7
8.6
8.5
8.4
8.3
8.2
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

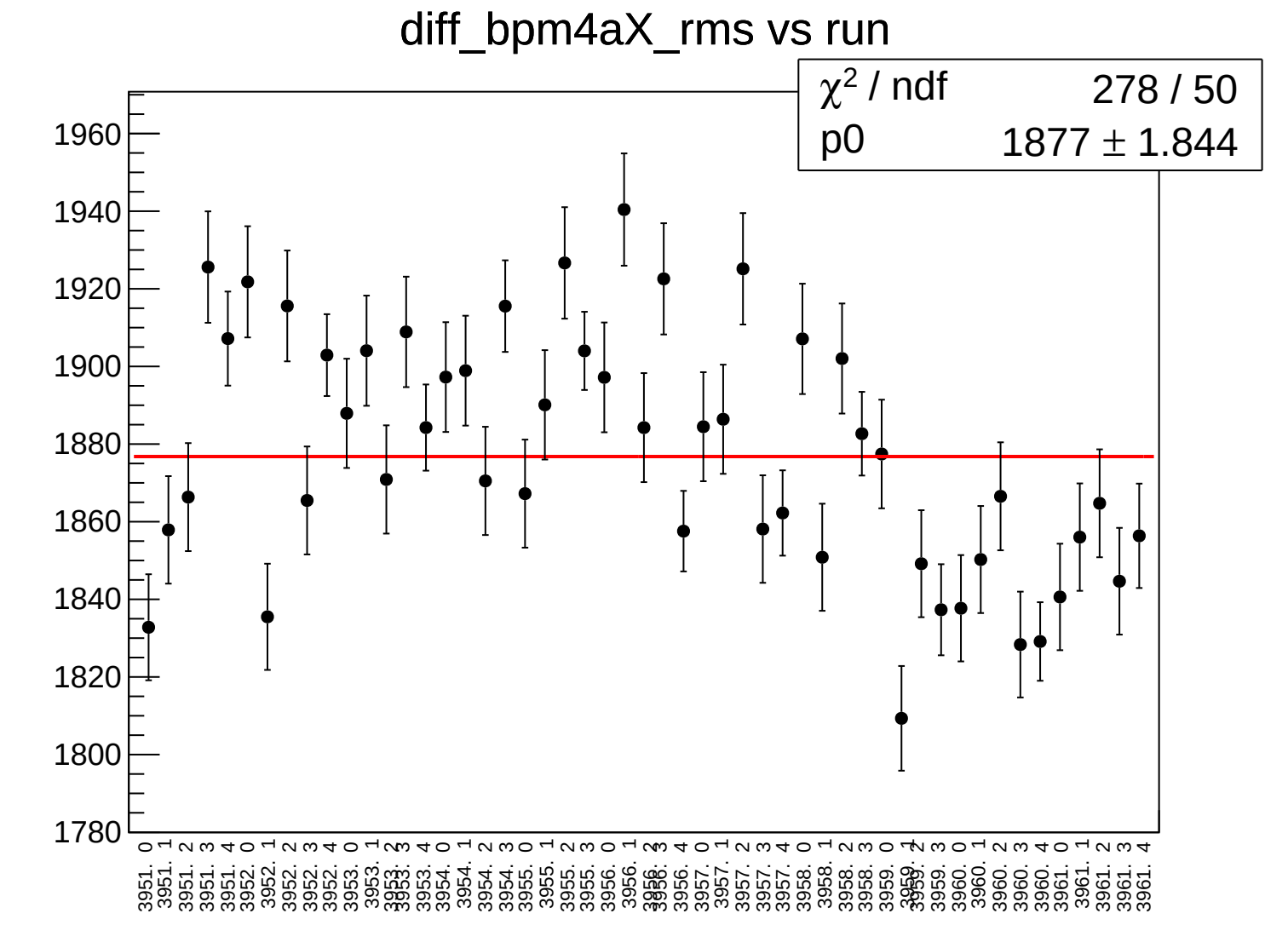

diff_cav4dY_mean vs run
χ² / ndf 54.62 / 50
p0 −0.1391 ± 0.2031
pull
Entries 51
Mean 54.98
Std Dev 55.46

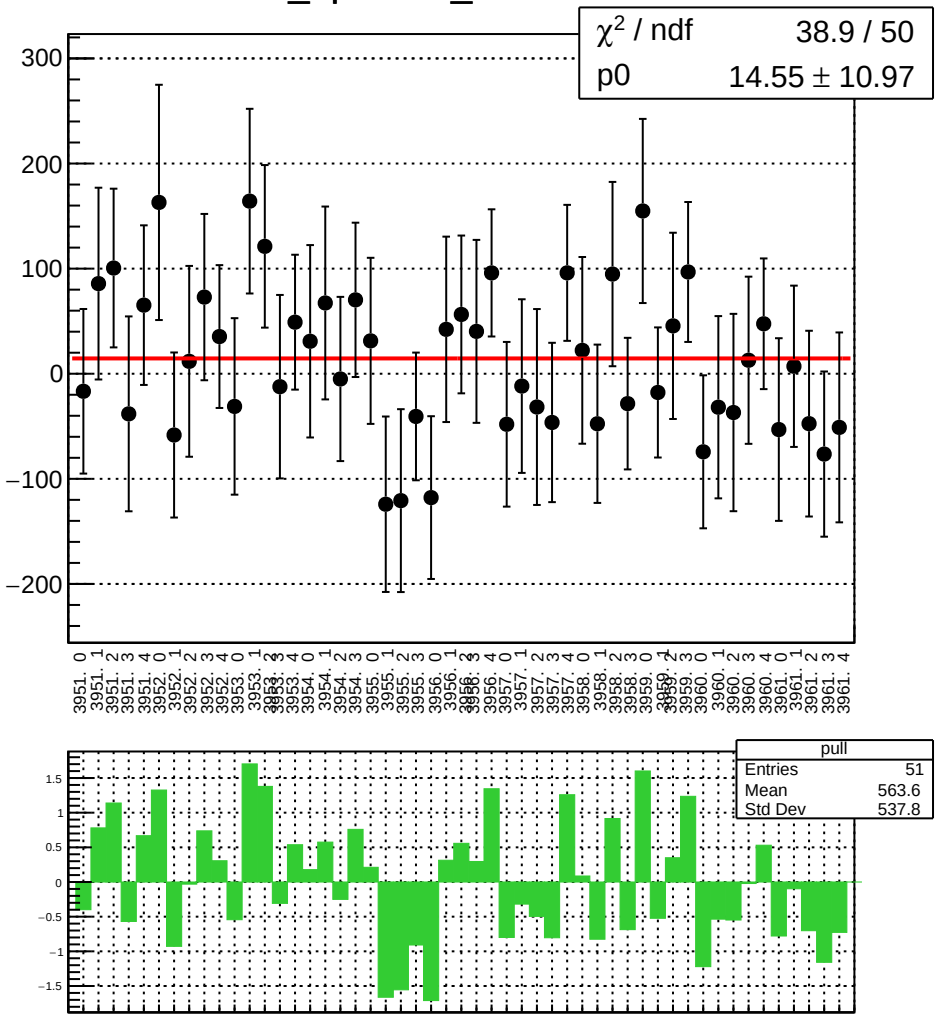

pull1D
Entries 51
Mean −0.02366
Std Dev 1.035

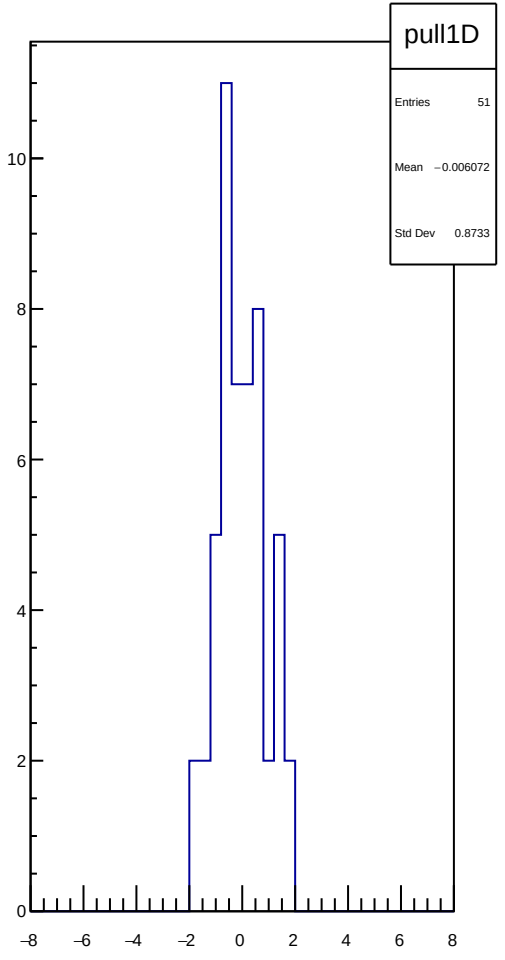

diff_cav4dY_rms vs run
χ^2 / ndf 3.956e+05 / 50
p0 114.9 ± 0.1436
9000
8000
7000
6000
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

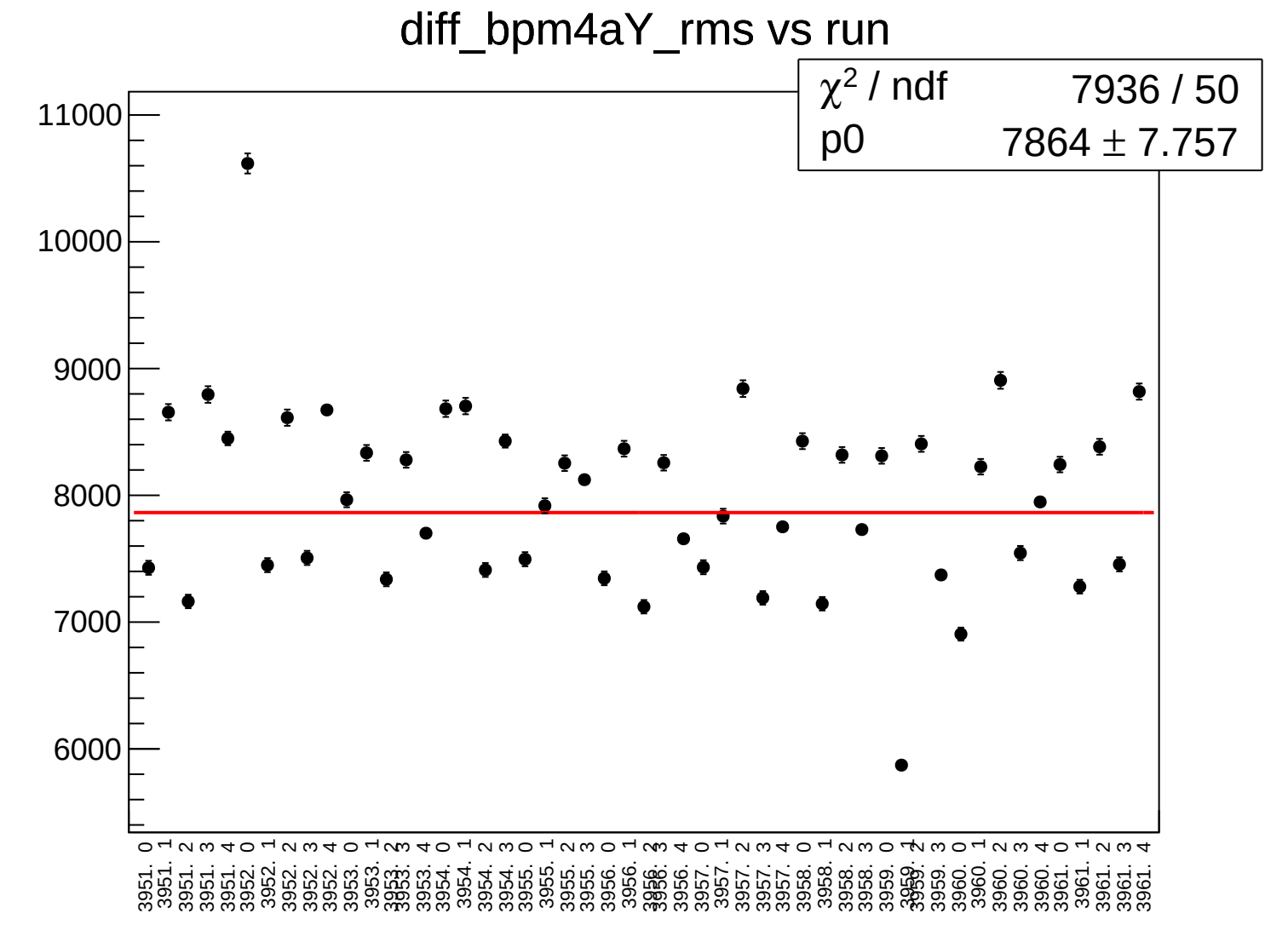

diff_bpm4aX_mean vs run
χ² / ndf 30.33 / 50
p0 −2.676 ± 2.608
pull
Entries 51
Mean −73.24
Std Dev 93.2

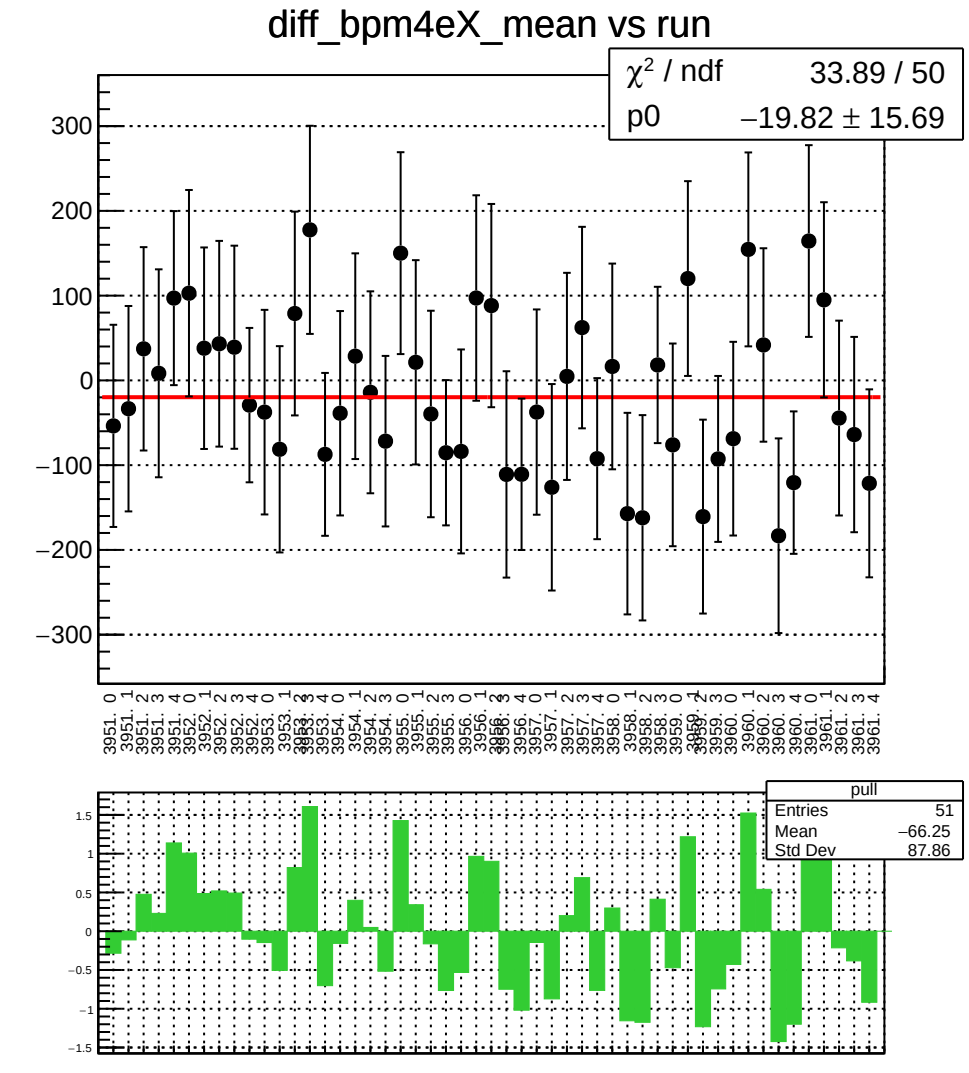

pull1D
Entries 51
Mean 0.01864
Std Dev 0.771

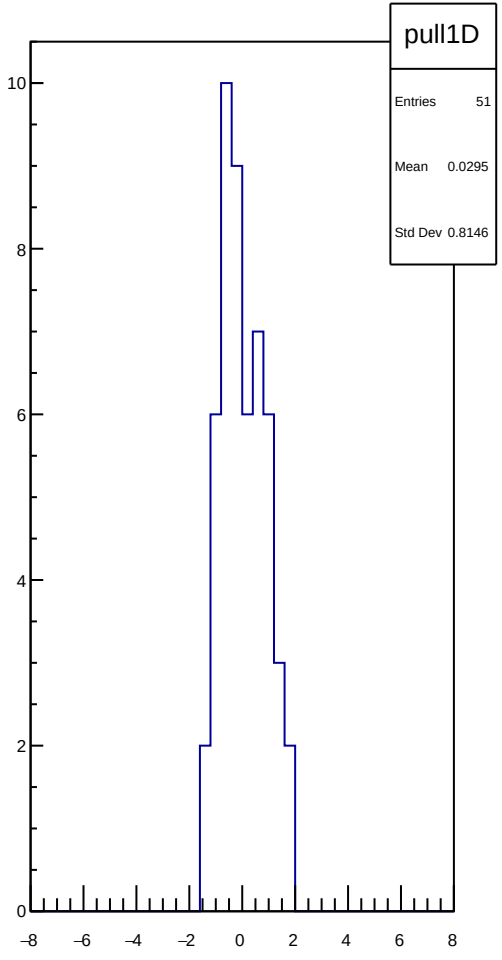

diff_bpm4aX_rms vs run
χ² / ndf 278 / 50
p0 1877 ± 1.844
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

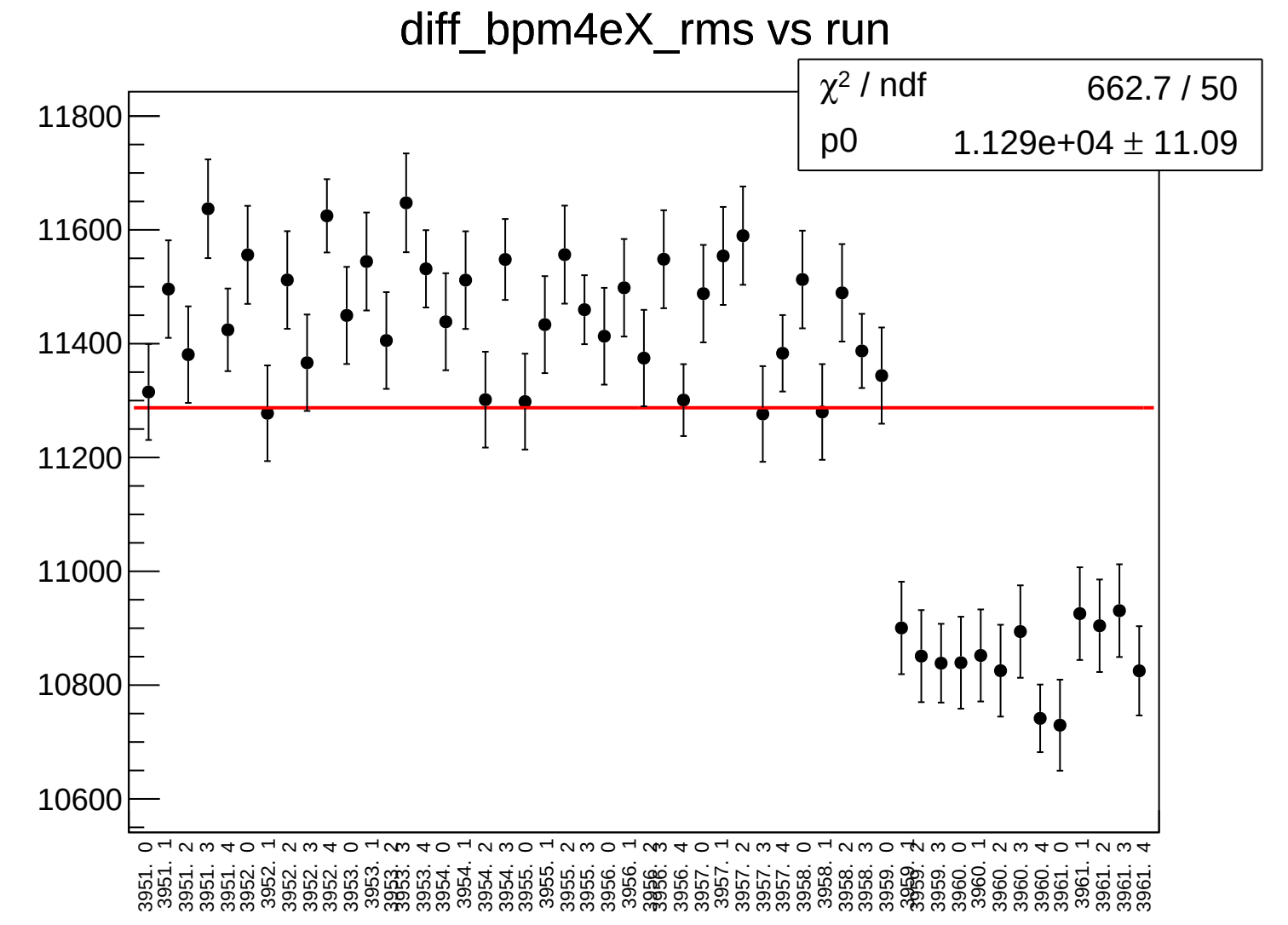

diff_bpm4aY_mean vs run
χ² / ndf 38.9 / 50
p0 14.55 ± 10.97
pull
Entries 51
Mean 563.6
Std Dev 537.8

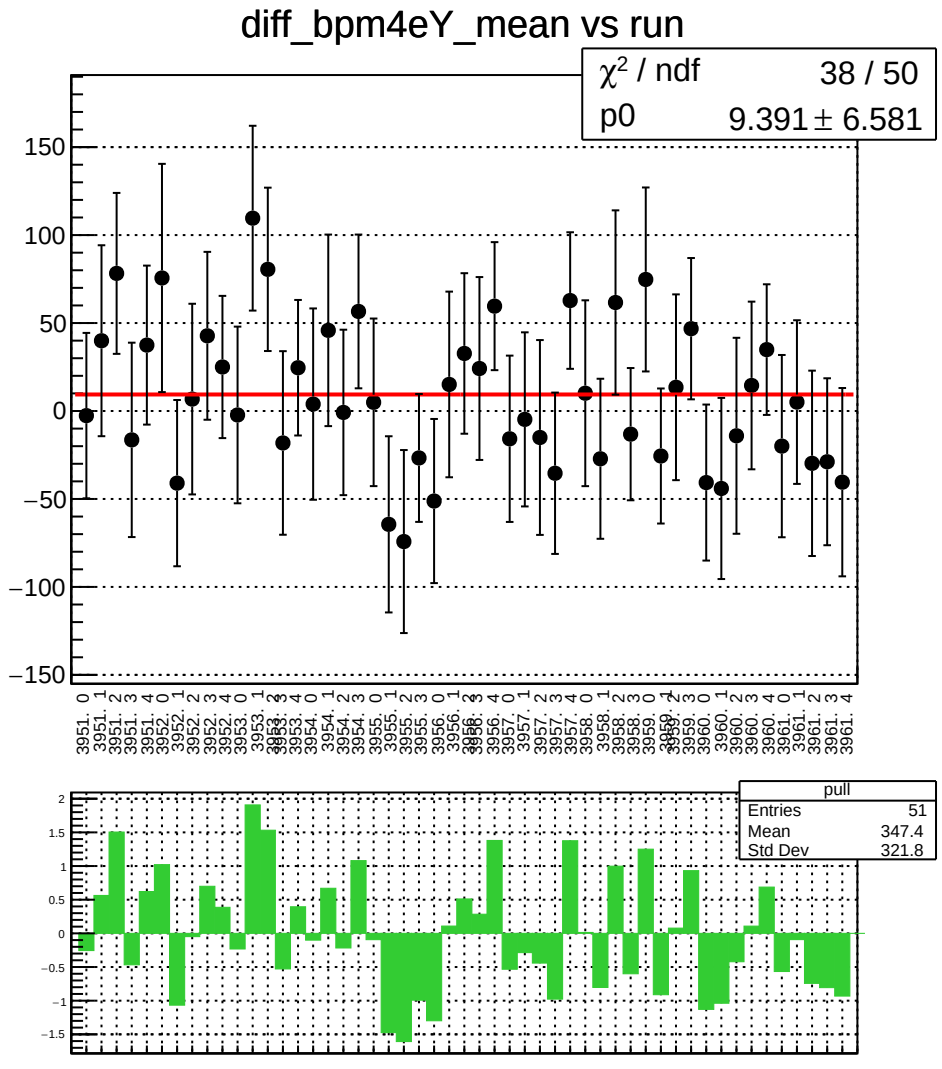

pull1D
Entries 51
Mean −0.006072
Std Dev 0.8733

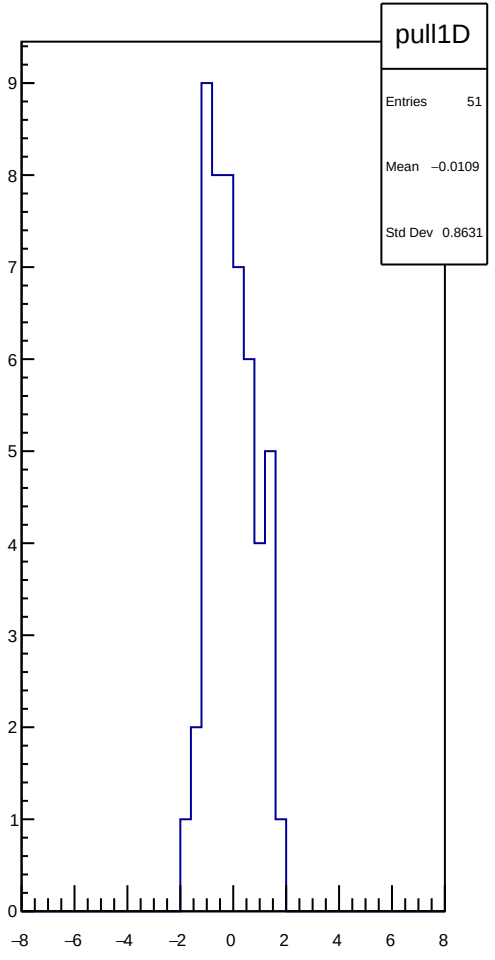

diff_bpm4aY_rms vs run
χ² / ndf 7936 / 50
p0 7864 ± 7.757
11000
10000
9000
8000
7000
6000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

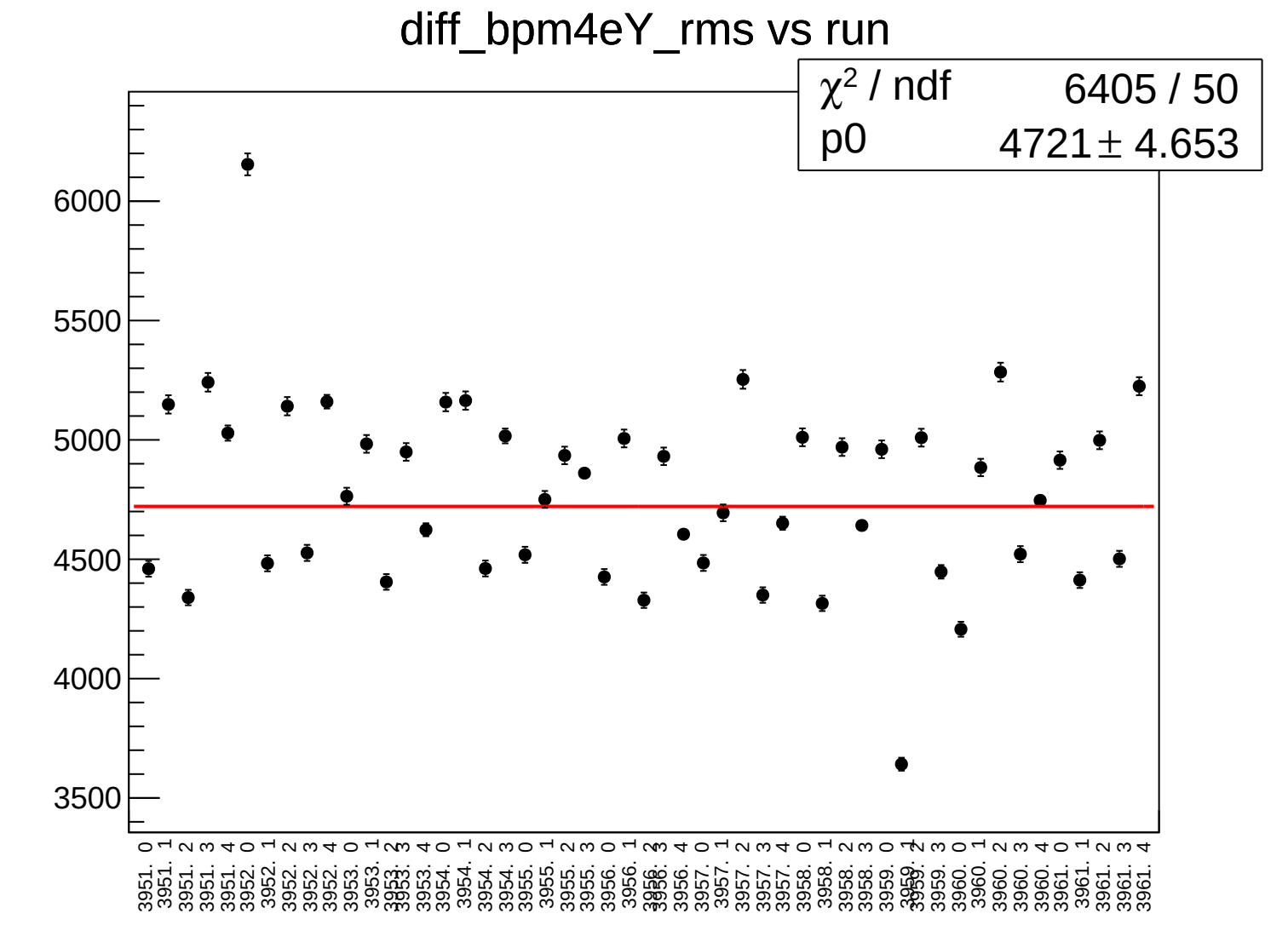

diff_bpm4eX_mean vs run
χ² / ndf 33.89 / 50
p0 −19.82 ± 15.69
pull
Entries 51
Mean −66.25
Std Dev 87.86

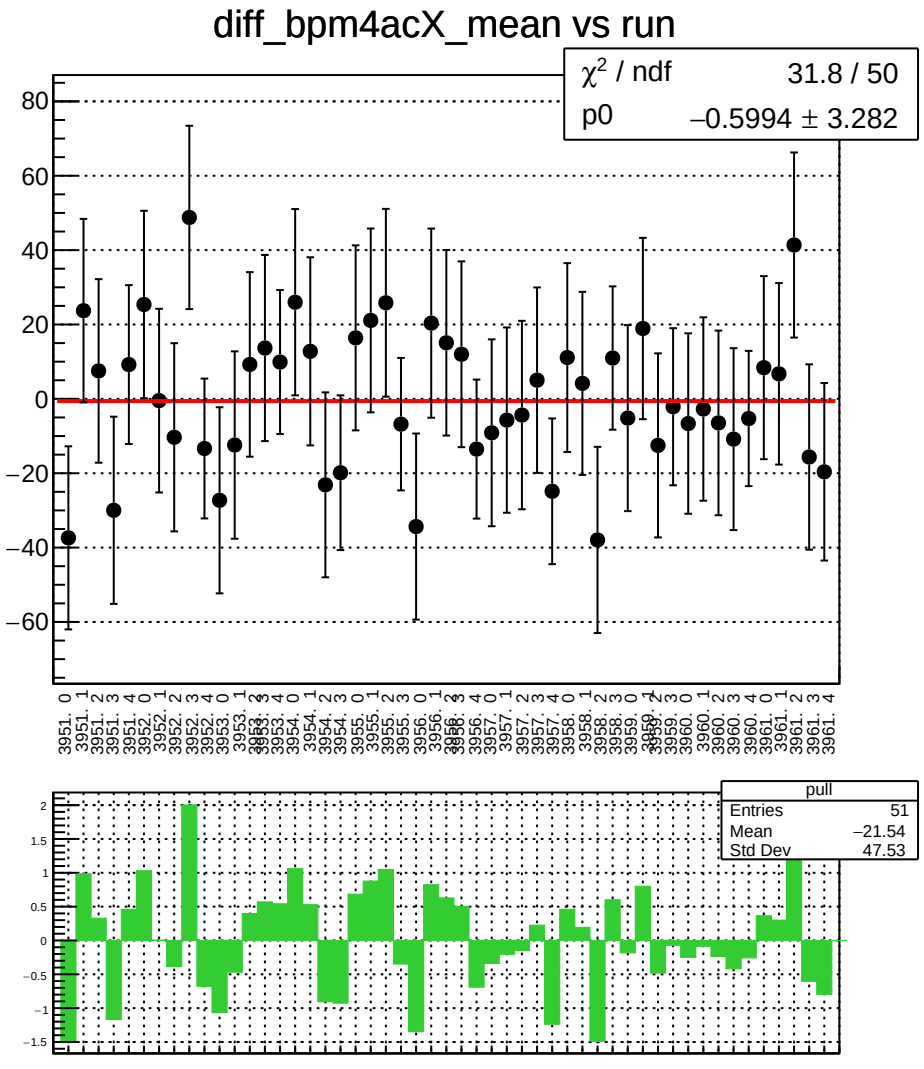

pull1D
Entries 51
Mean 0.0295
Std Dev 0.8146

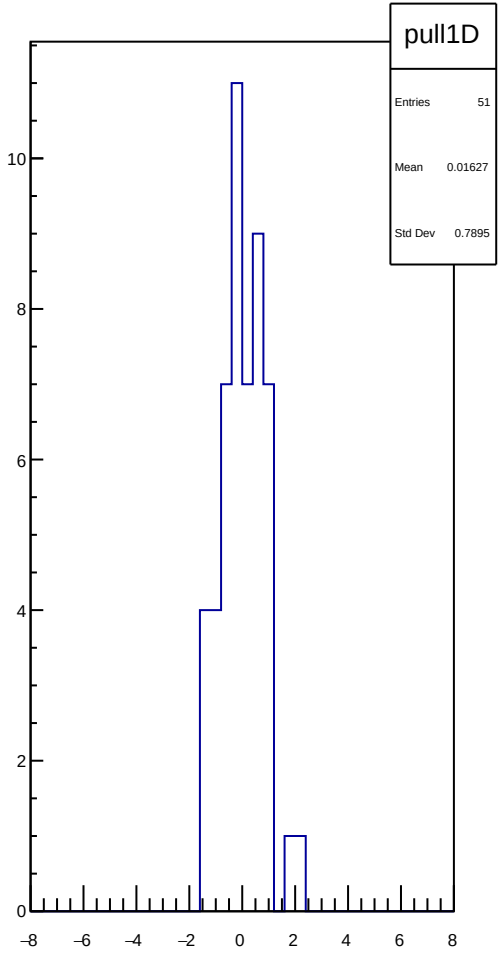

diff_bpm4eX_rms vs run
χ² / ndf 662.7 / 50
p0 1.129e+04 ± 11.09
11800
11600
11400
11200
11000
10800
10600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

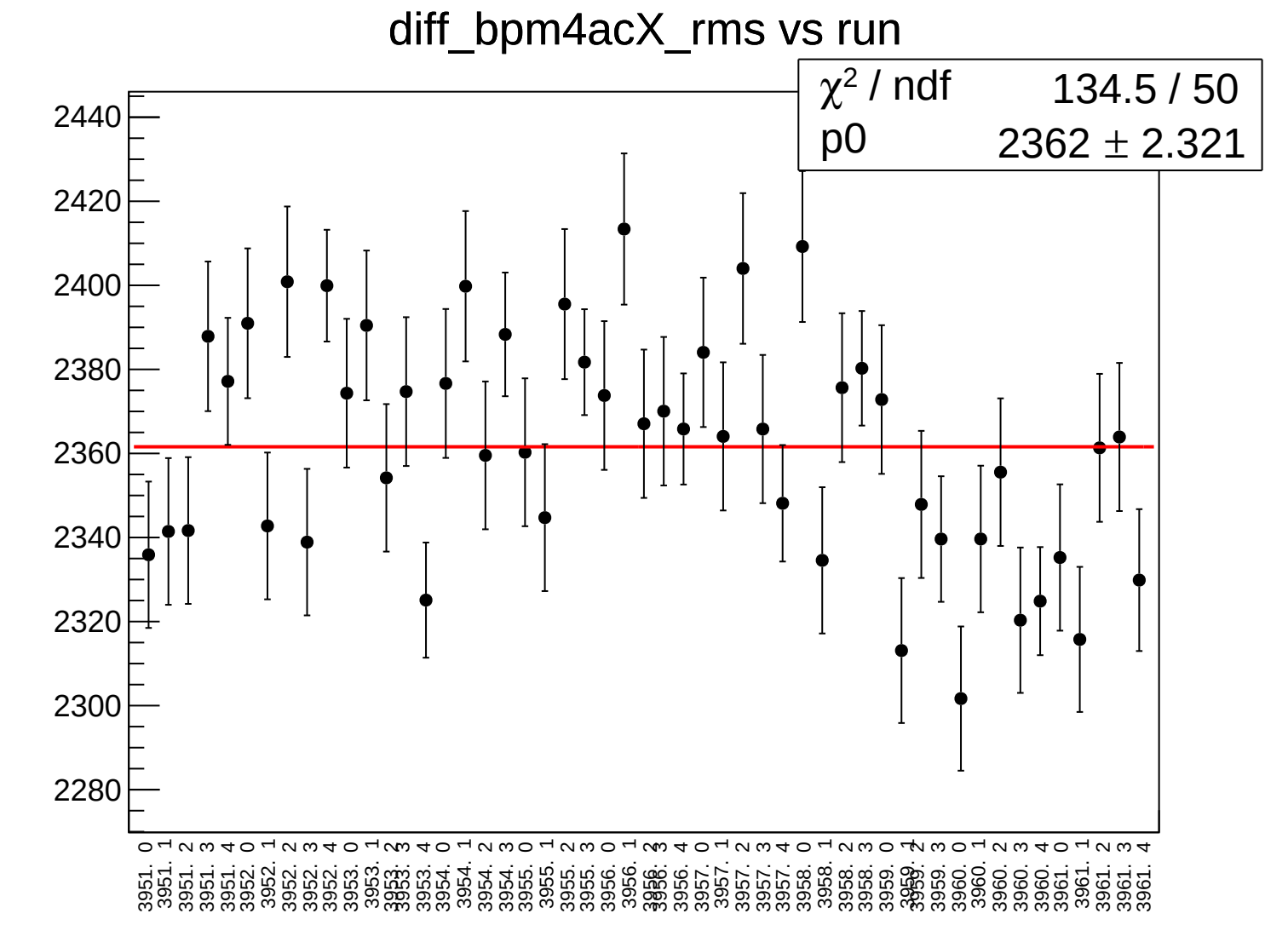

diff_bpm4eY_mean vs run
χ^2 / ndf 38 / 50
p0 9.391 ± 6.581
pull
Entries 51
Mean 347.4
Std Dev 321.8

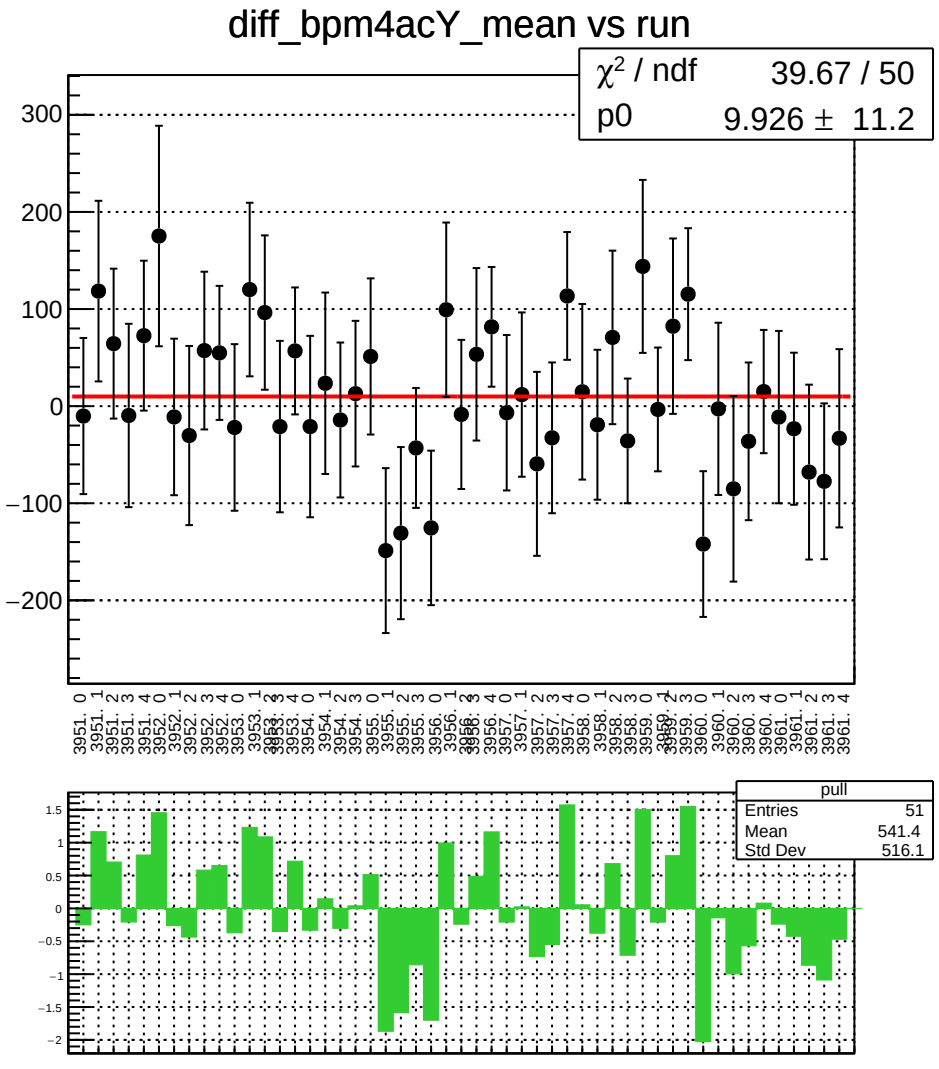

pull1D
Entries 51
Mean −0.0109
Std Dev 0.8631

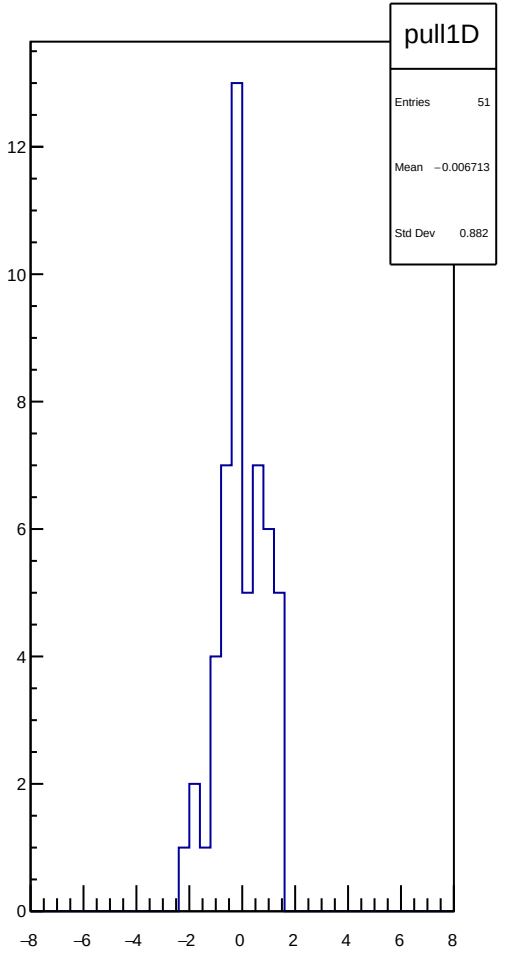

diff_bpm4eY_rms vs run
χ² / ndf 6405 / 50
p0 4721 ± 4.653
6000
5500
5000
4500
4000
3500
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

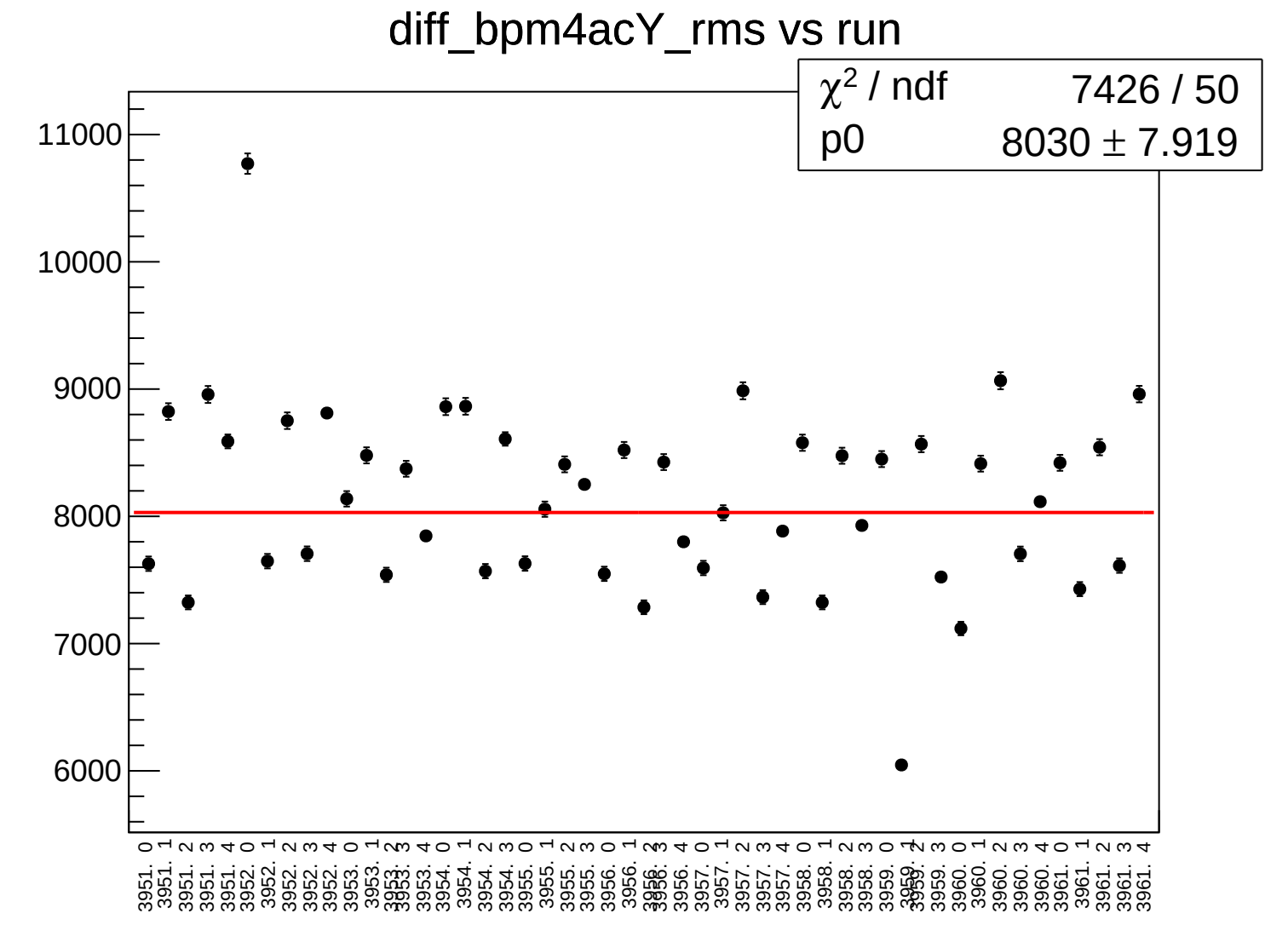

diff_bpm4acX_mean vs run
χ² / ndf 31.8 / 50
p0 −0.5994 ± 3.282
pull
Entries 51
Mean −21.54
Std Dev 47.53

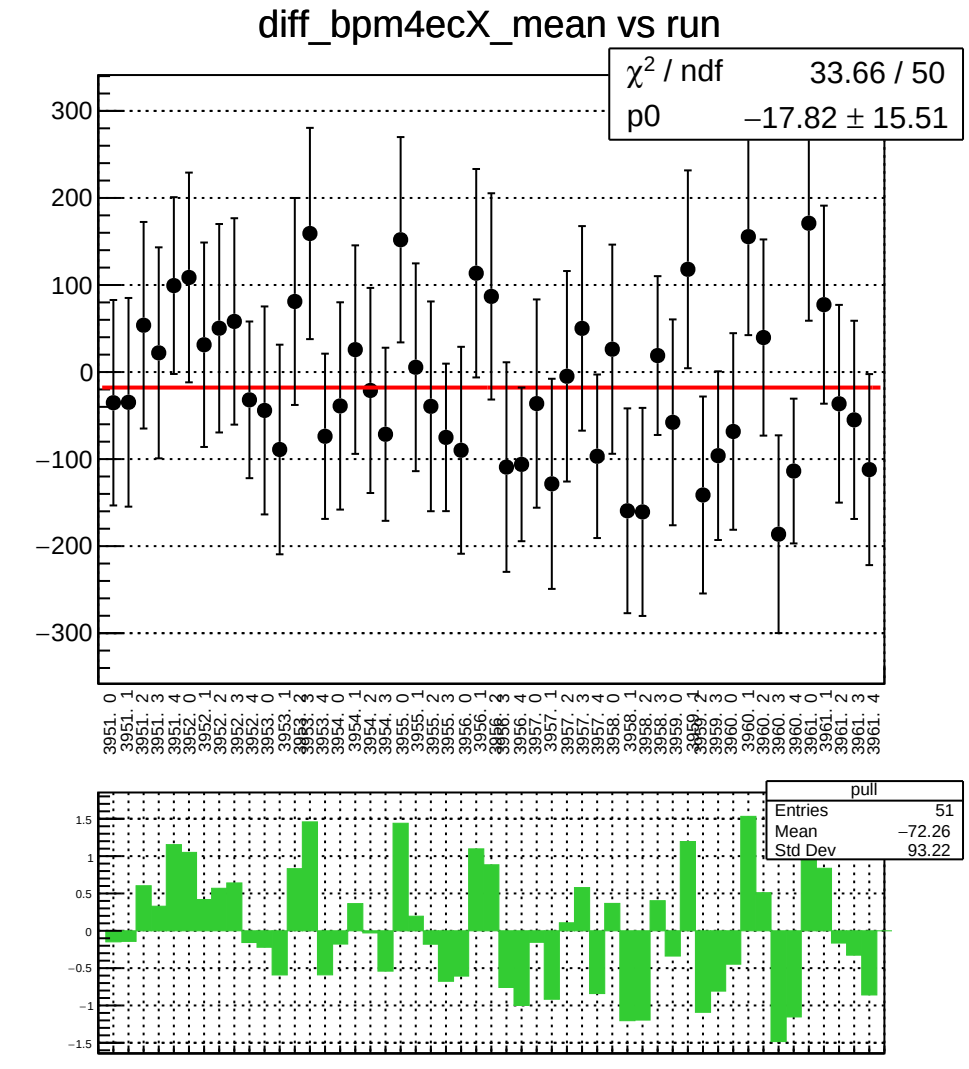

pull1D
Entries 51
Mean 0.01627
Std Dev 0.7895

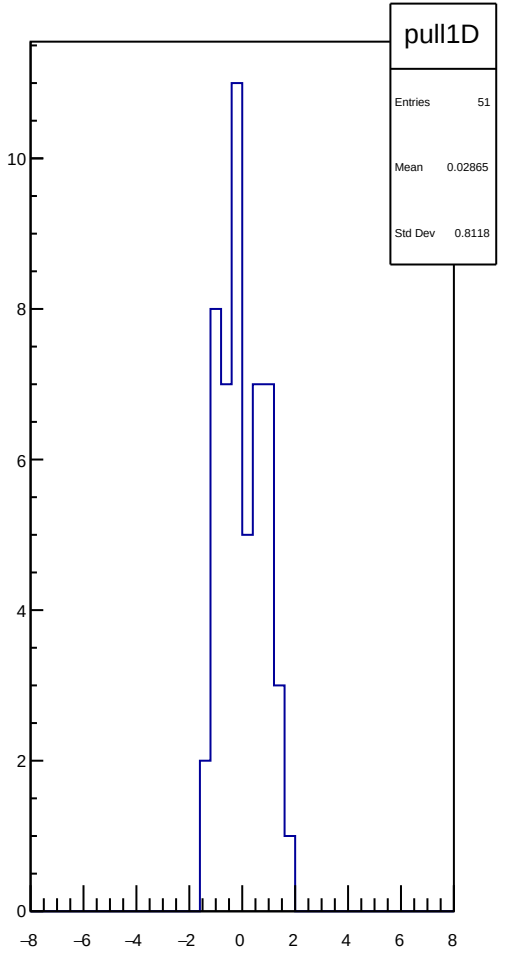

diff_bpm4acX_rms vs run
χ² / ndf 134.5 / 50
p0 2362 ± 2.321
2440
2420
2400
2380
2360
2340
2320
2300
2280
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

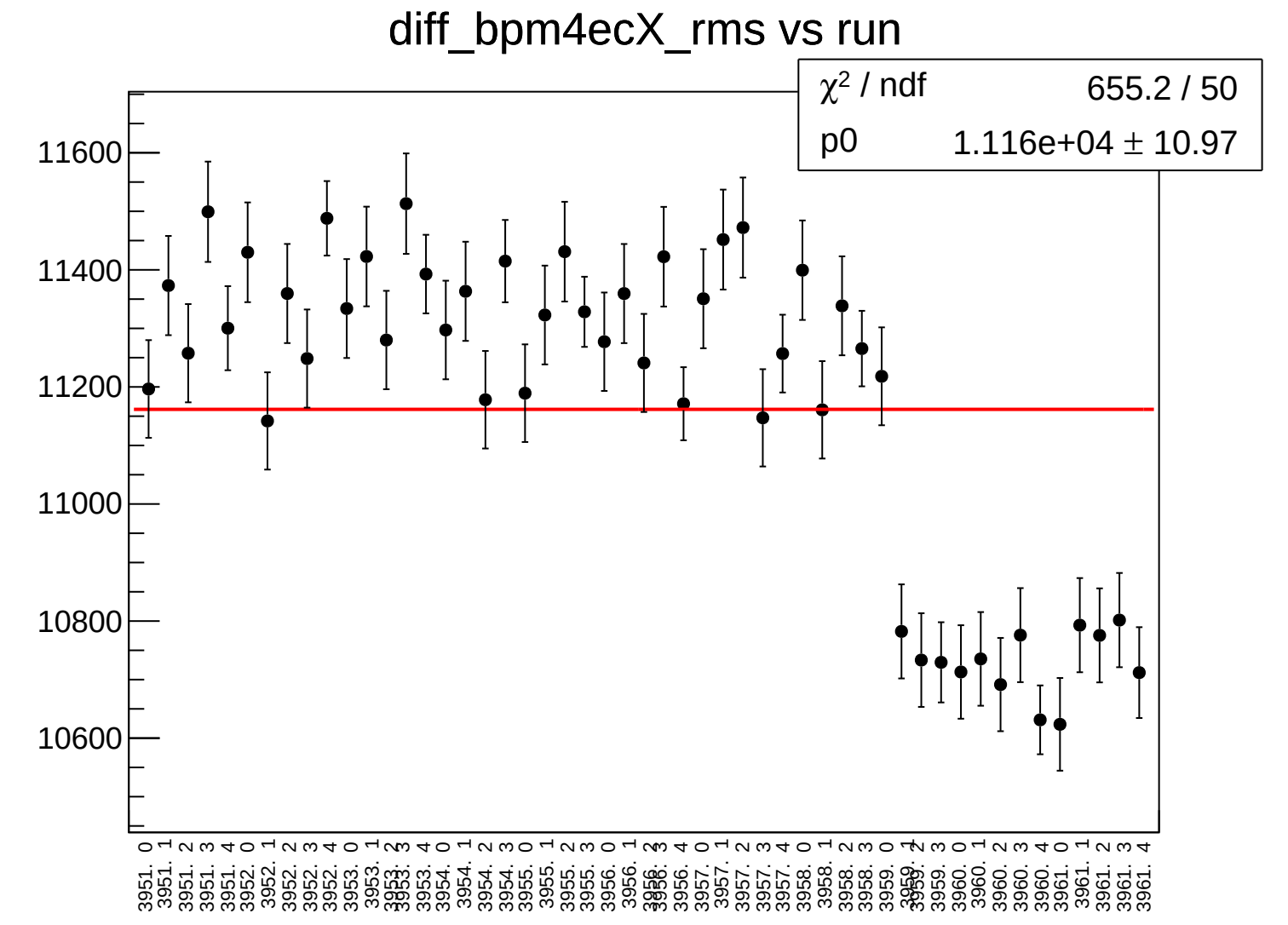

diff_bpm4acY_mean vs run
χ² / ndf 39.67 / 50
p0 9.926 ± 11.2
300
200
100
0
−100
−200
pull
Entries 51
Mean 541.4
Std Dev 516.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

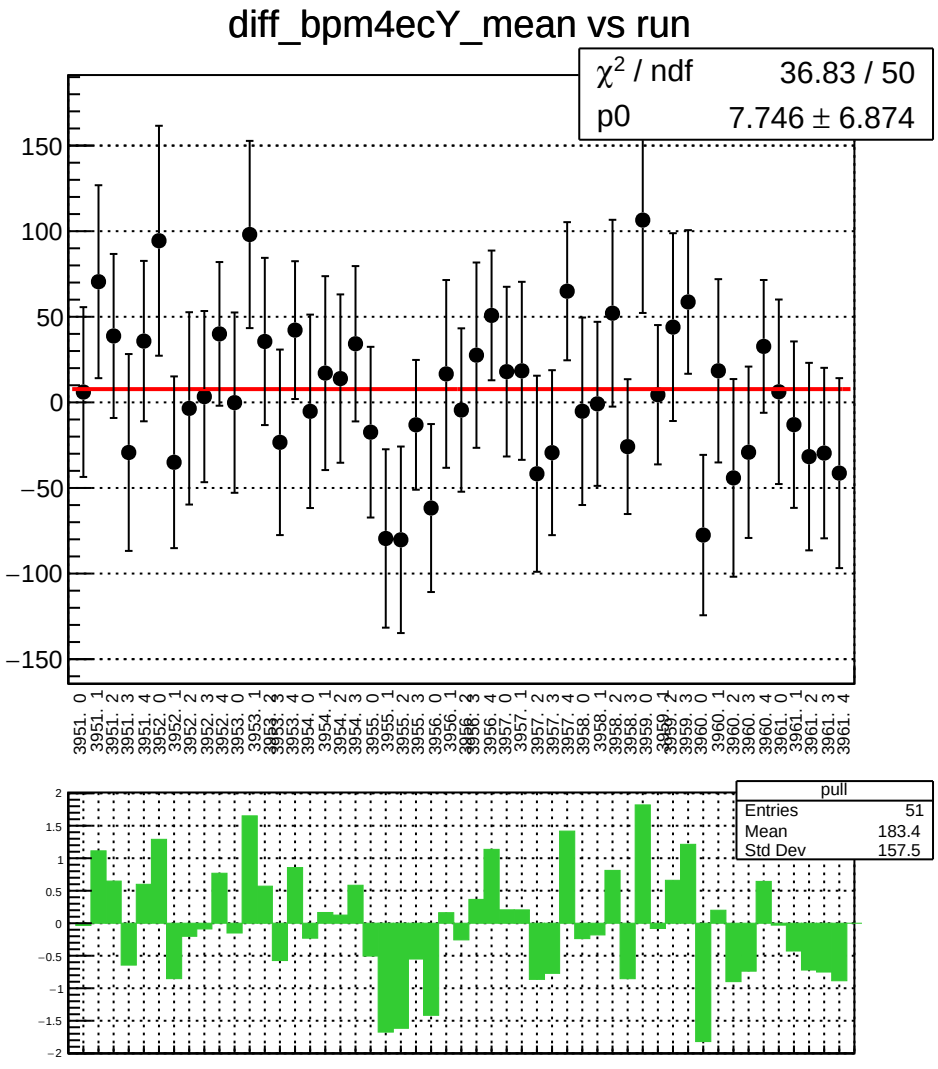

pull1D
Entries 51
Mean −0.006713
Std Dev 0.882
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

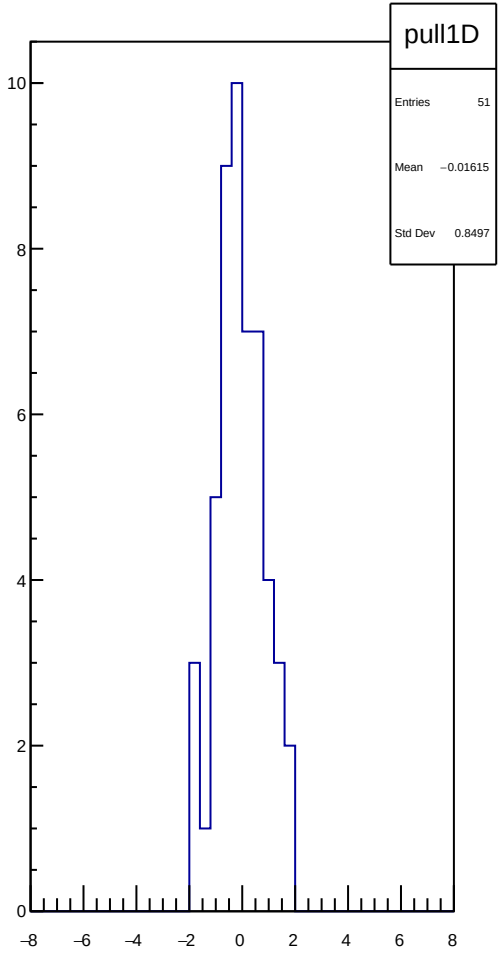

diff_bpm4acY_rms vs run
χ² / ndf 7426 / 50
p0 8030 ± 7.919
11000
10000
9000
8000
7000
6000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

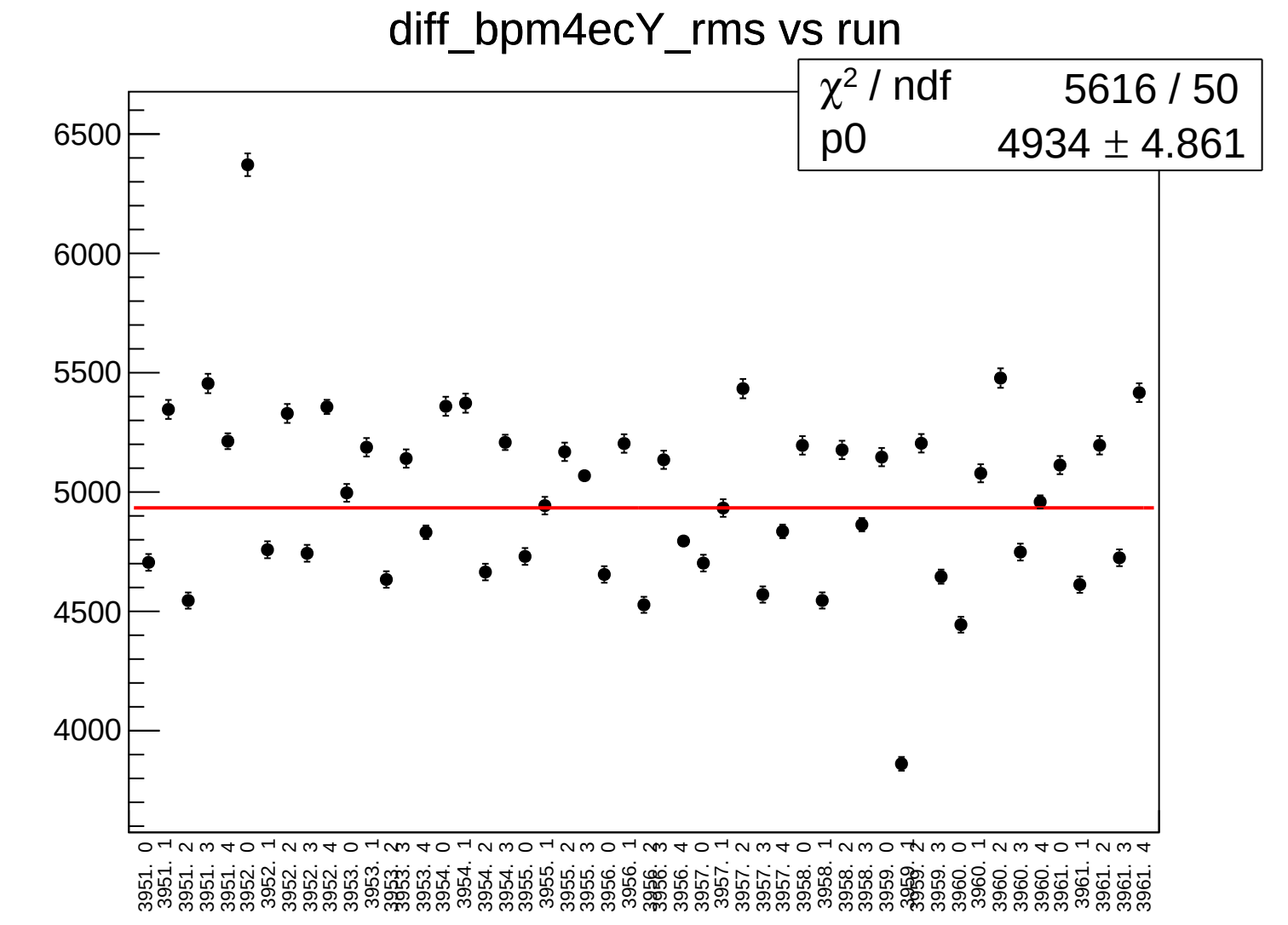

diff_bpm4ecX_mean vs run
χ² / ndf 33.66 / 50
p0 −17.82 ± 15.51
pull
Entries 51
Mean −72.26
Std Dev 93.22

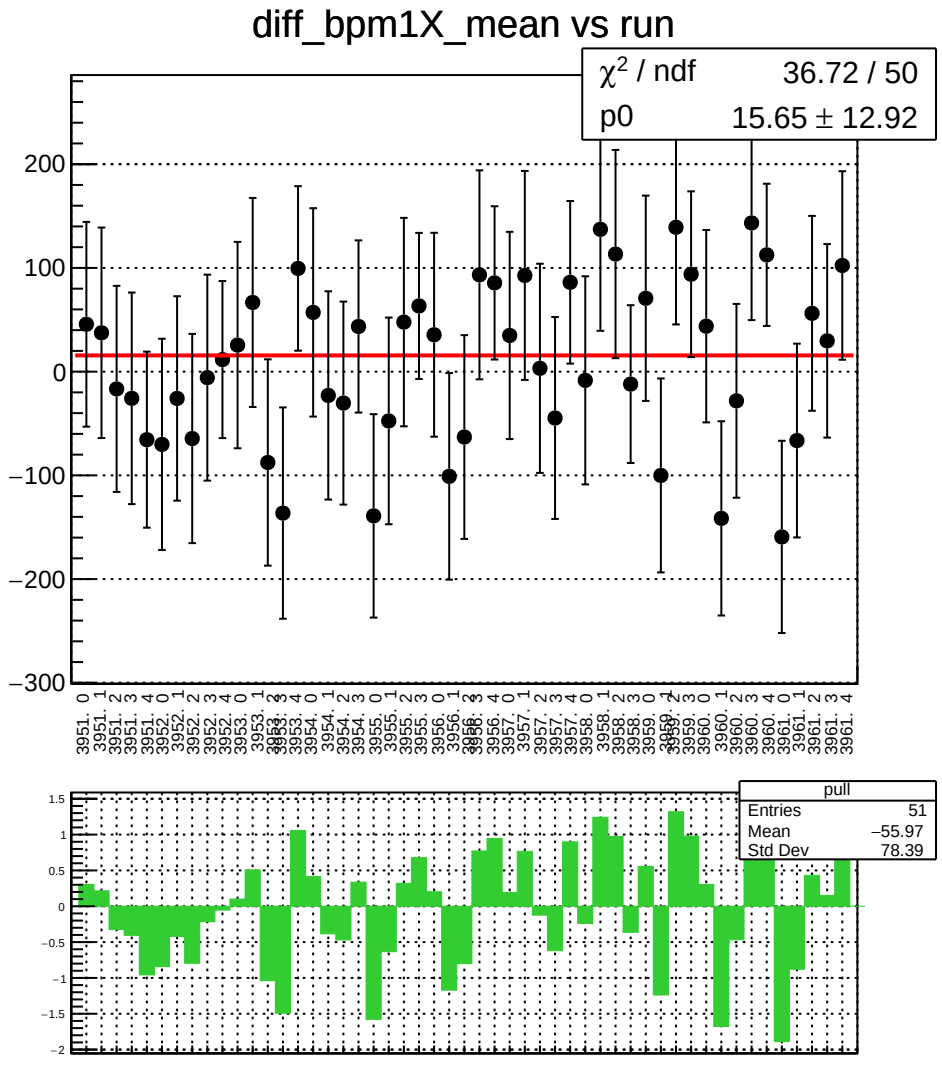

pull1D
Entries 51
Mean 0.02865
Std Dev 0.8118

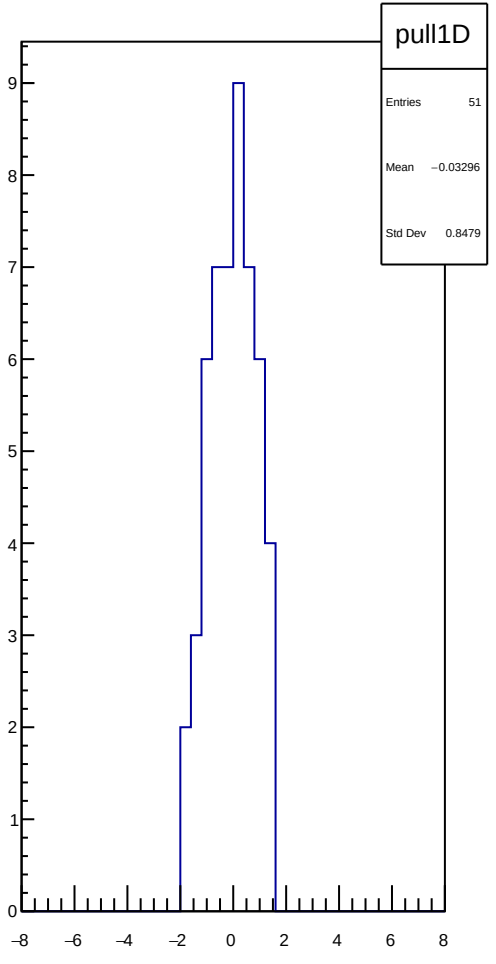

diff_bpm4ecX_rms vs run
χ² / ndf 655.2 / 50
p0 1.116e+04 ± 10.97
11600
11400
11200
11000
10800
10600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

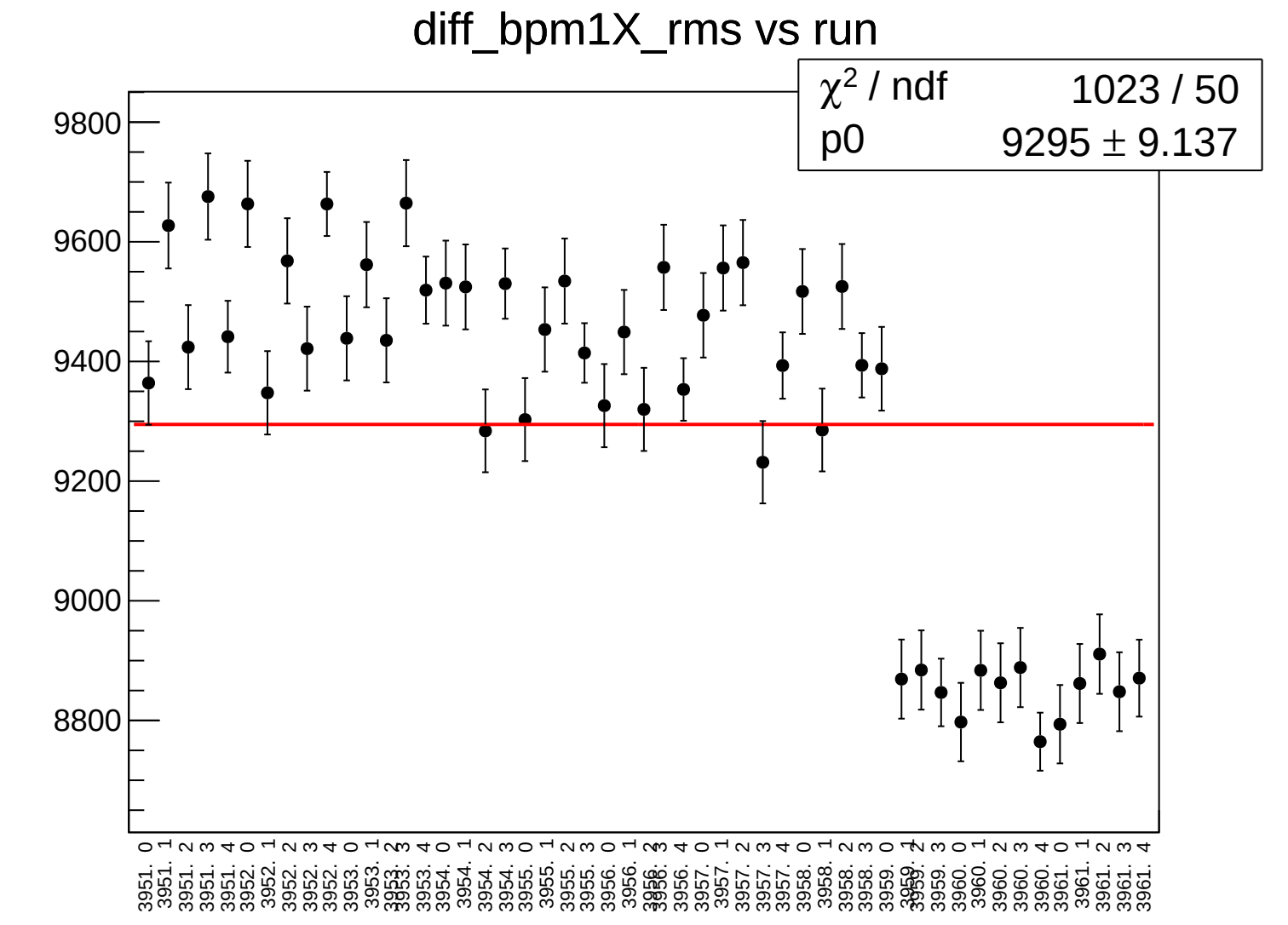

diff_bpm4ecY_mean vs run
χ^2 / ndf 36.83 / 50
p0 7.746 ± 6.874
150
100
50
0
−50
−100
−150
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4
pull
Entries 51
Mean 183.4
Std Dev 157.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

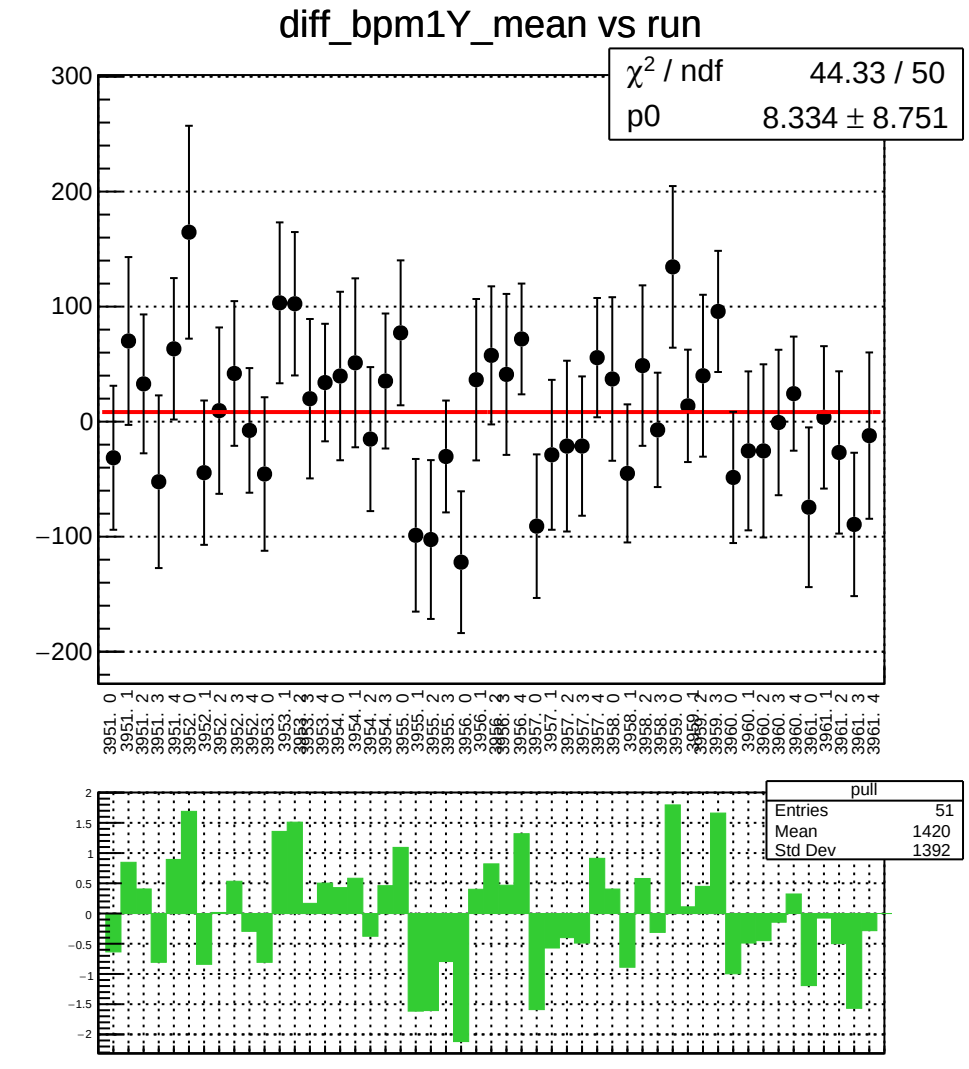

pull1D
Entries 51
Mean −0.01615
Std Dev 0.8497
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

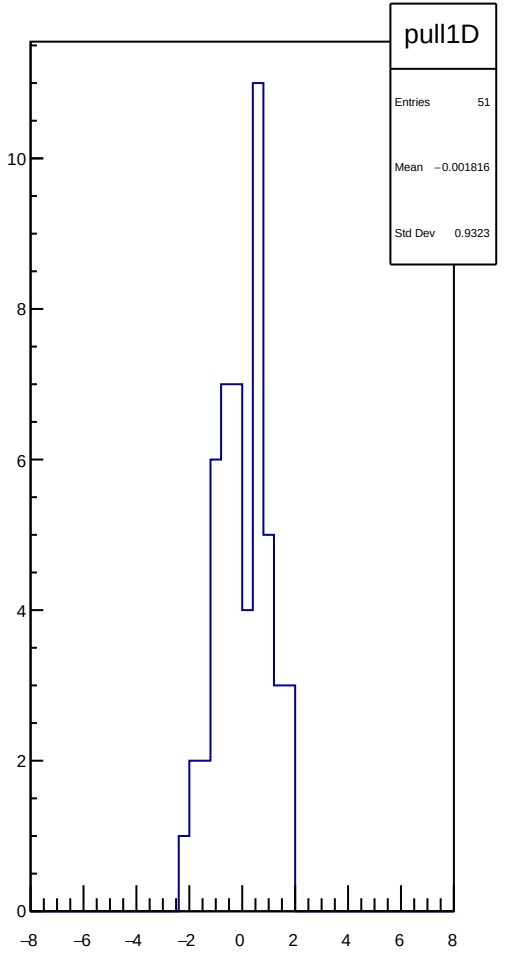

diff_bpm4ecY_rms vs run
χ² / ndf 5616 / 50
p0 4934 ± 4.861
6500
6000
5500
5000
4500
4000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

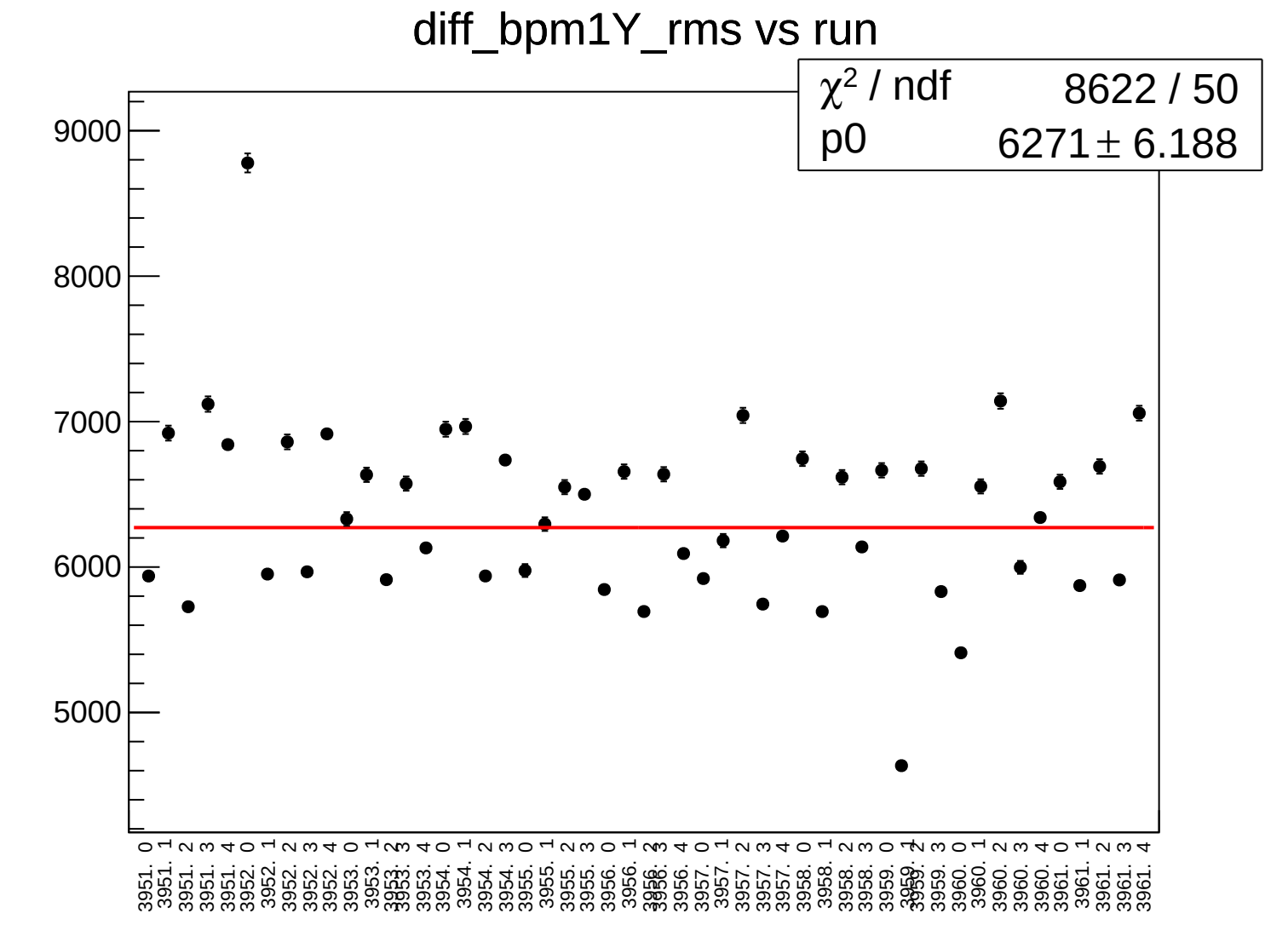

diff_bpm1X_mean vs run
χ² / ndf 36.72 / 50
p0 15.65 ± 12.92
pull
Entries 51
Mean −55.97
Std Dev 78.39

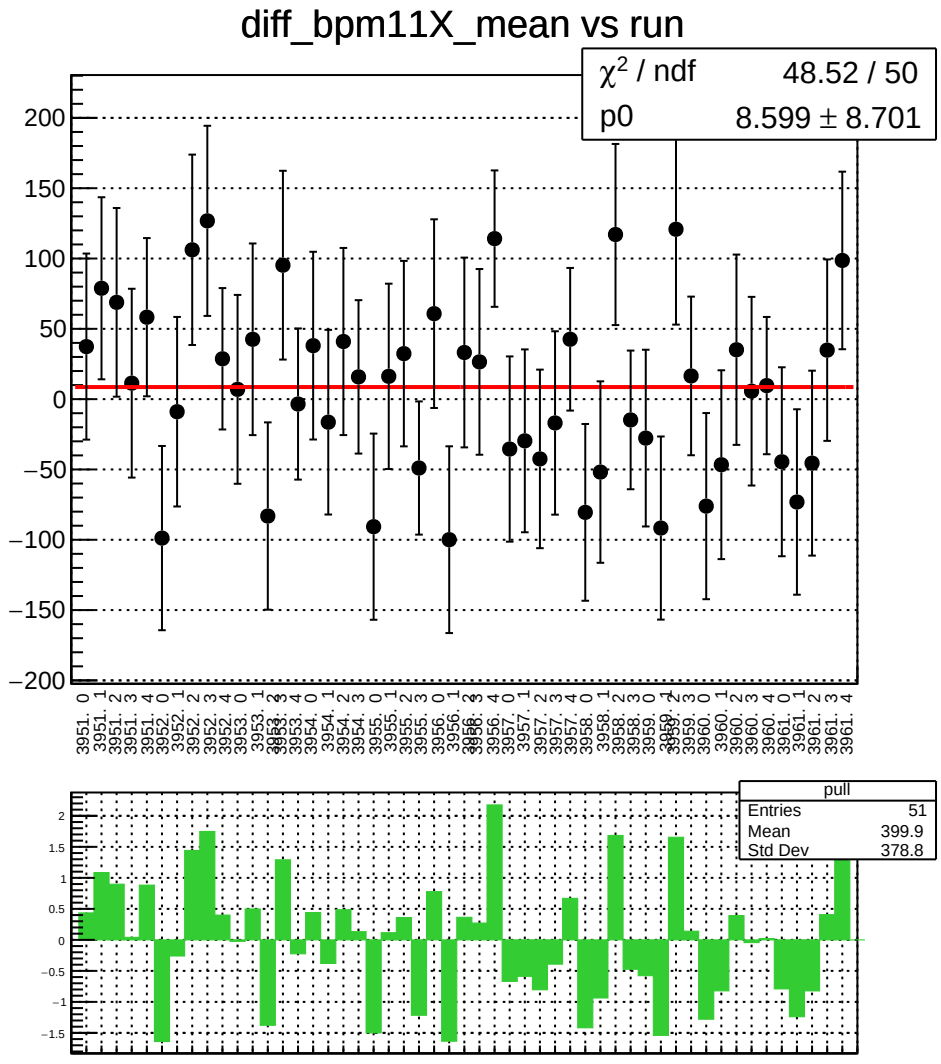

pull1D
Entries 51
Mean −0.03296
Std Dev 0.8479

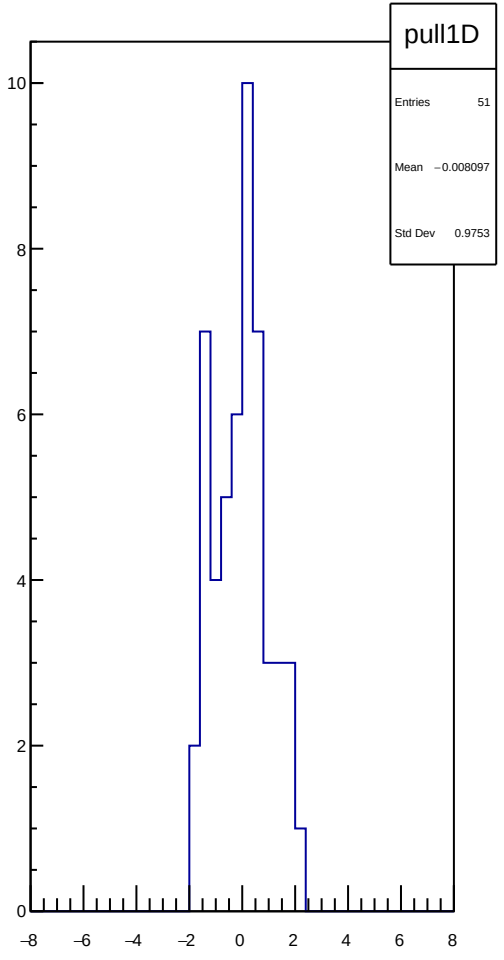

diff_bpm1X_rms vs run
χ^2 / ndf 1023 / 50
p0 9295 ± 9.137
9800
9600
9400
9200
9000
8800
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

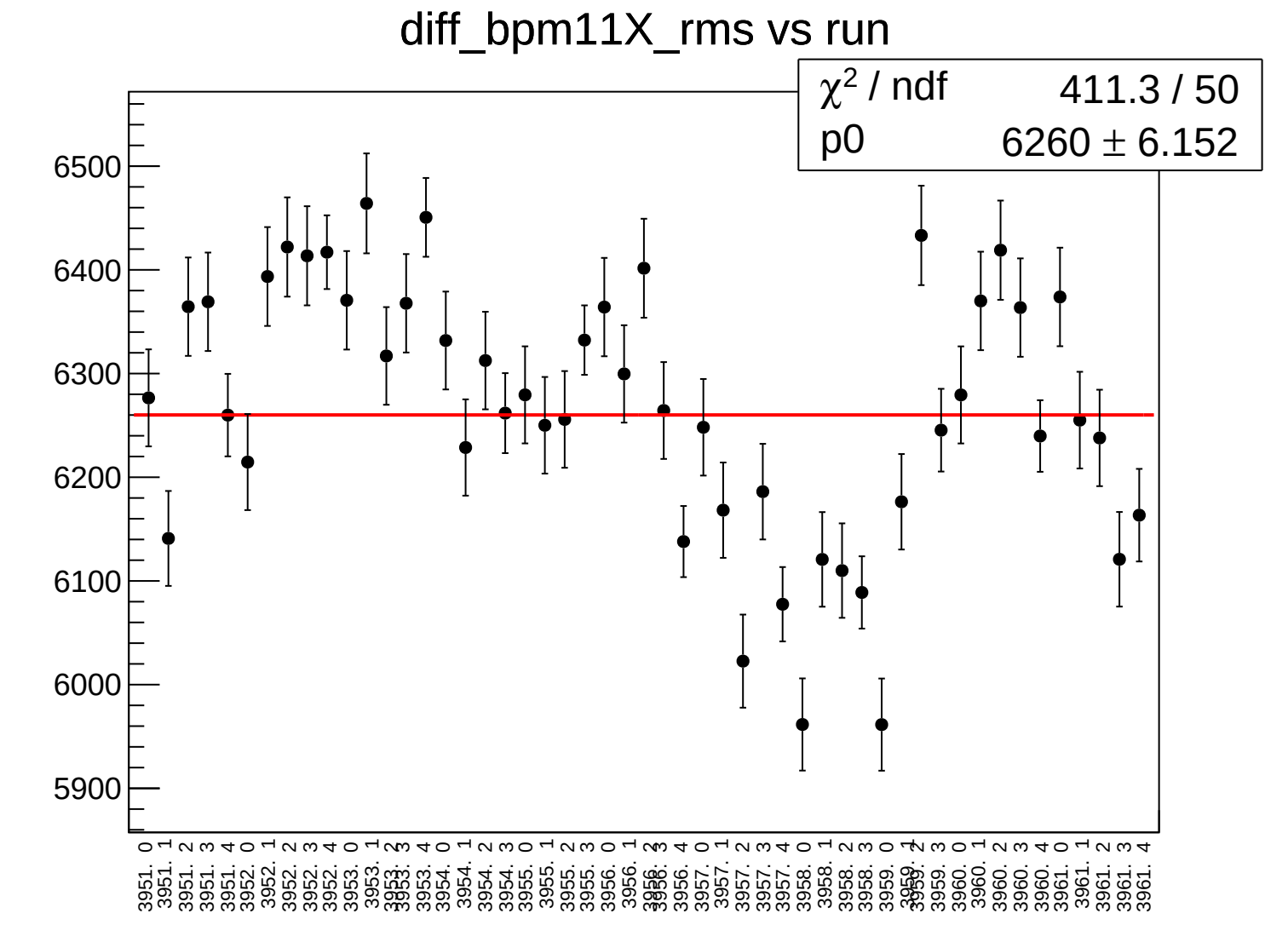

diff_bpm1Y_mean vs run
χ² / ndf 44.33 / 50
p0 8.334 ± 8.751
pull
Entries 51
Mean 1420
Std Dev 1392

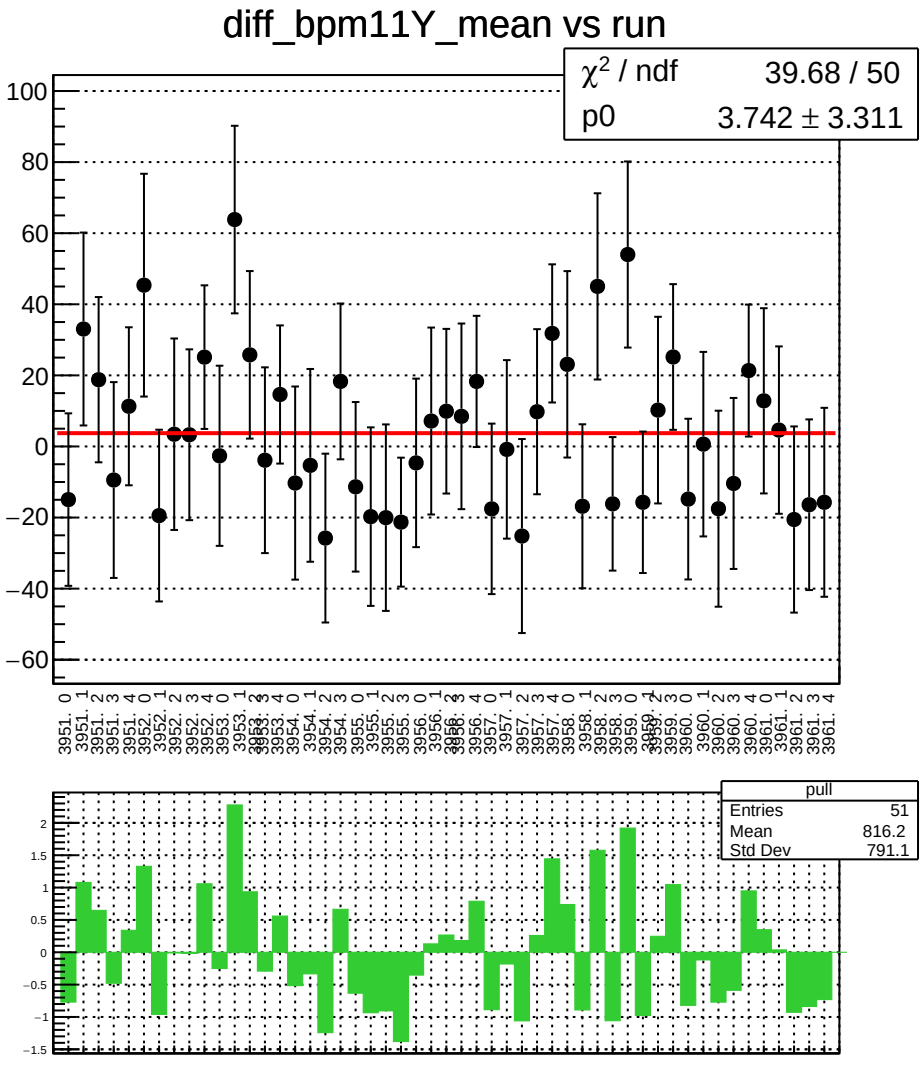

pull1D
Entries 51
Mean −0.001816
Std Dev 0.9323

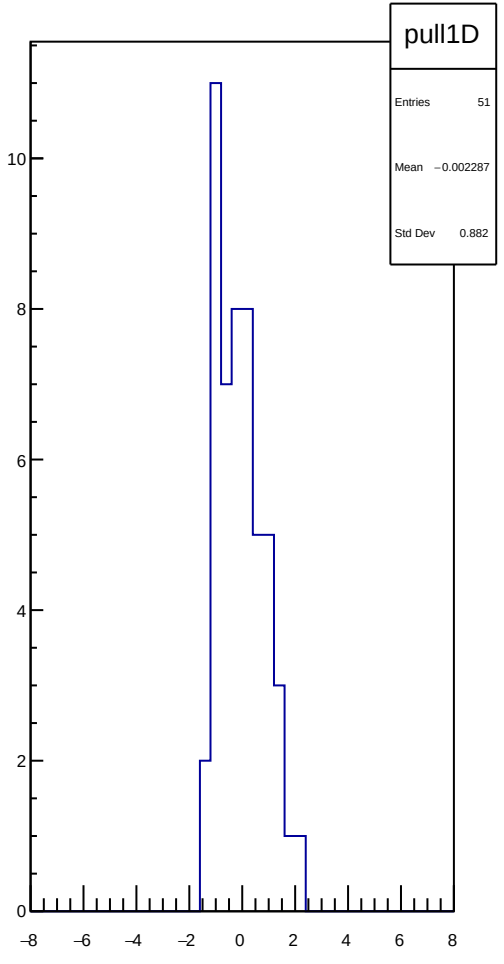

diff_bpm1Y_rms vs run
χ² / ndf 8622 / 50
p0 6271 ± 6.188
9000
8000
7000
6000
5000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

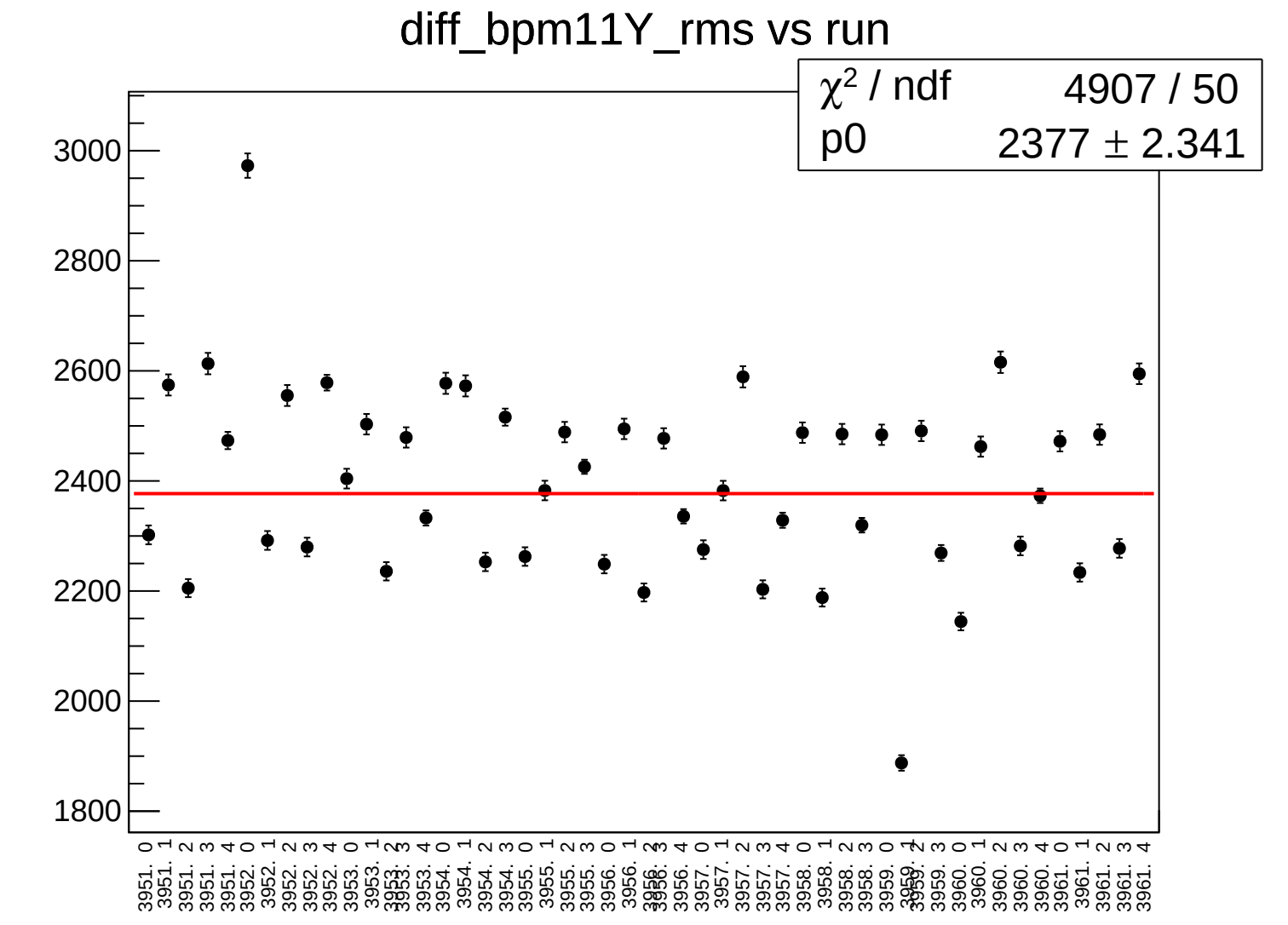

diff_bpm11X_mean vs run
χ² / ndf 48.52 / 50
p0 8.599 ± 8.701
pull
Entries 51
Mean 399.9
Std Dev 378.8

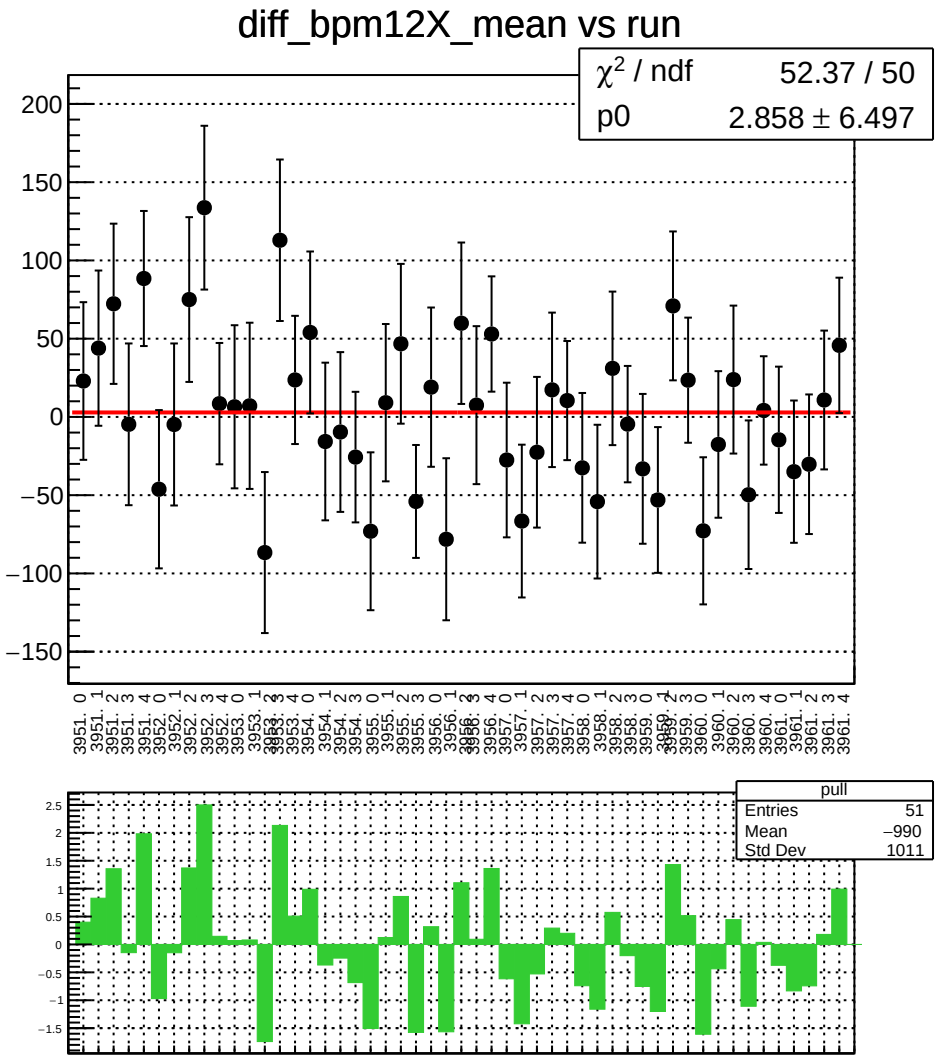

pull1D
Entries 51
Mean −0.008097
Std Dev 0.9753

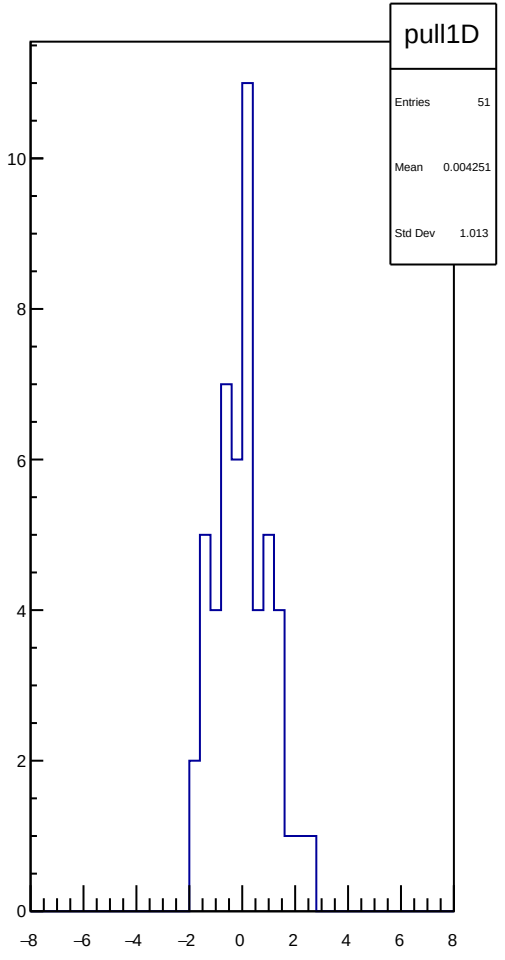

diff_bpm11X_rms vs run
χ^2 / ndf 411.3 / 50
p0 6260 ± 6.152
6500
6400
6300
6200
6100
6000
5900
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

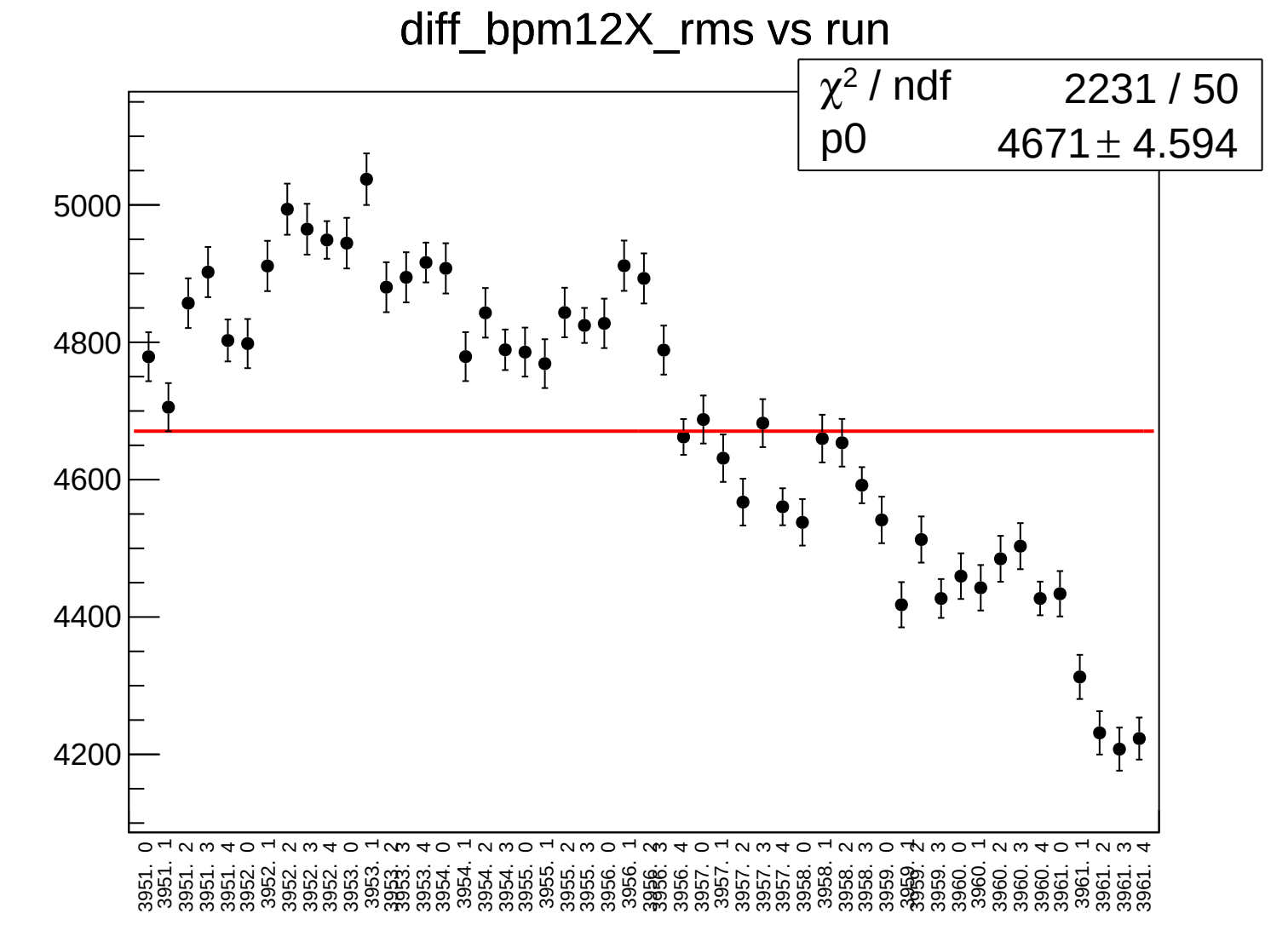

diff_bpm11Y_mean vs run
χ^2 / ndf 39.68 / 50
p0 3.742 ± 3.311
pull
Entries 51
Mean 816.2
Std Dev 791.1

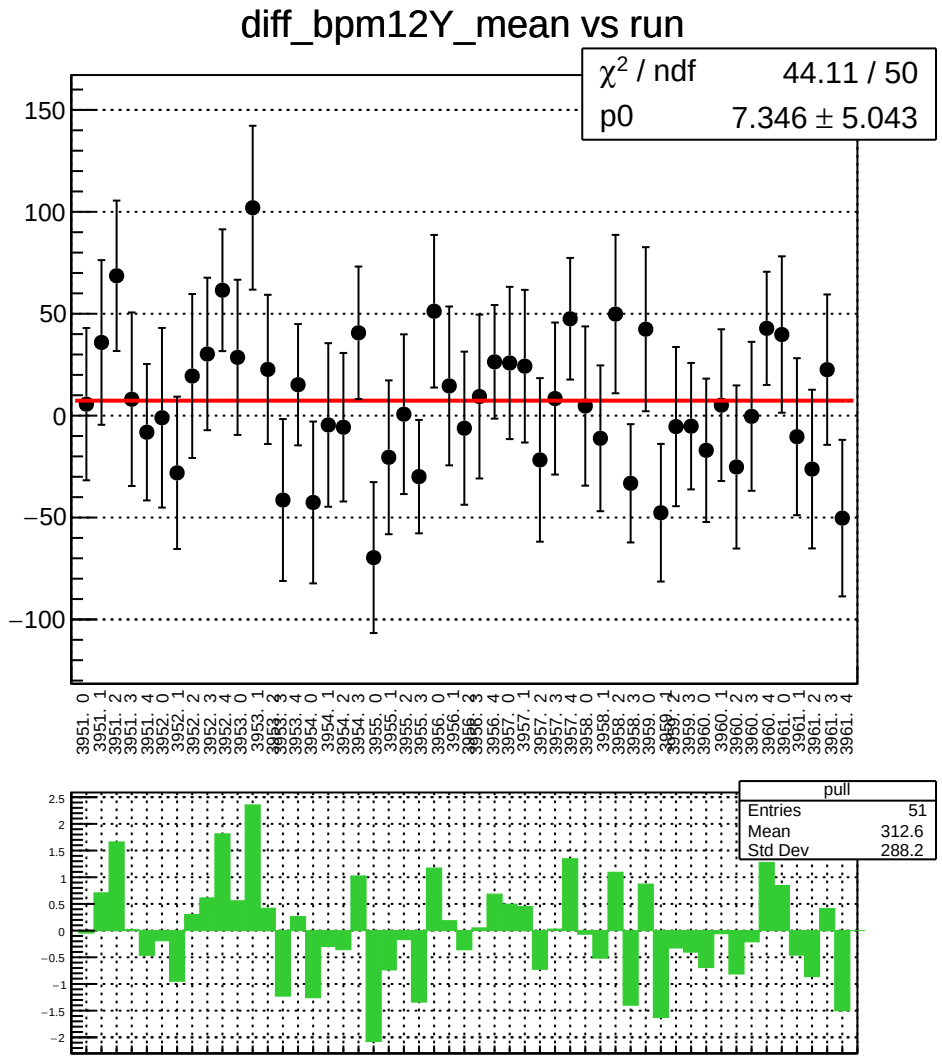

pull1D
Entries 51
Mean −0.002287
Std Dev 0.882

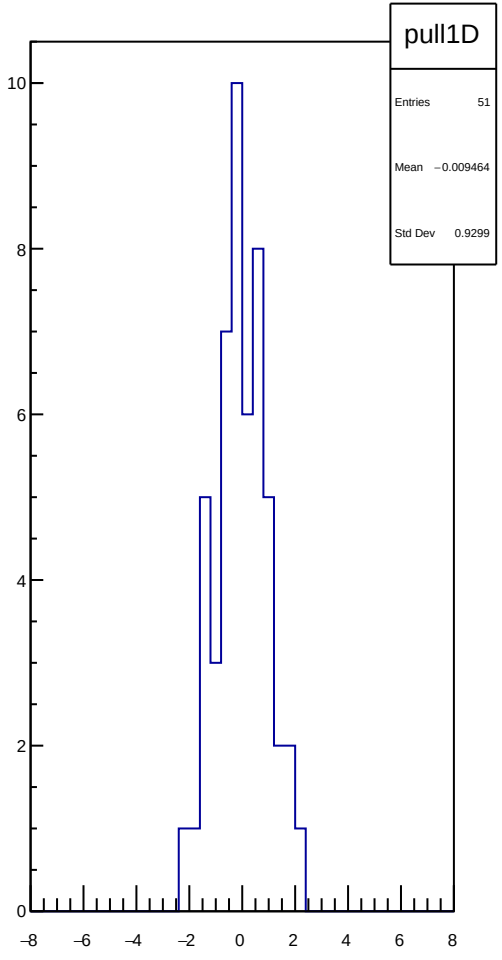

diff_bpm11Y_rms vs run
χ² / ndf 4907 / 50
p0 2377 ± 2.341
3000
2800
2600
2400
2200
2000
1800
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

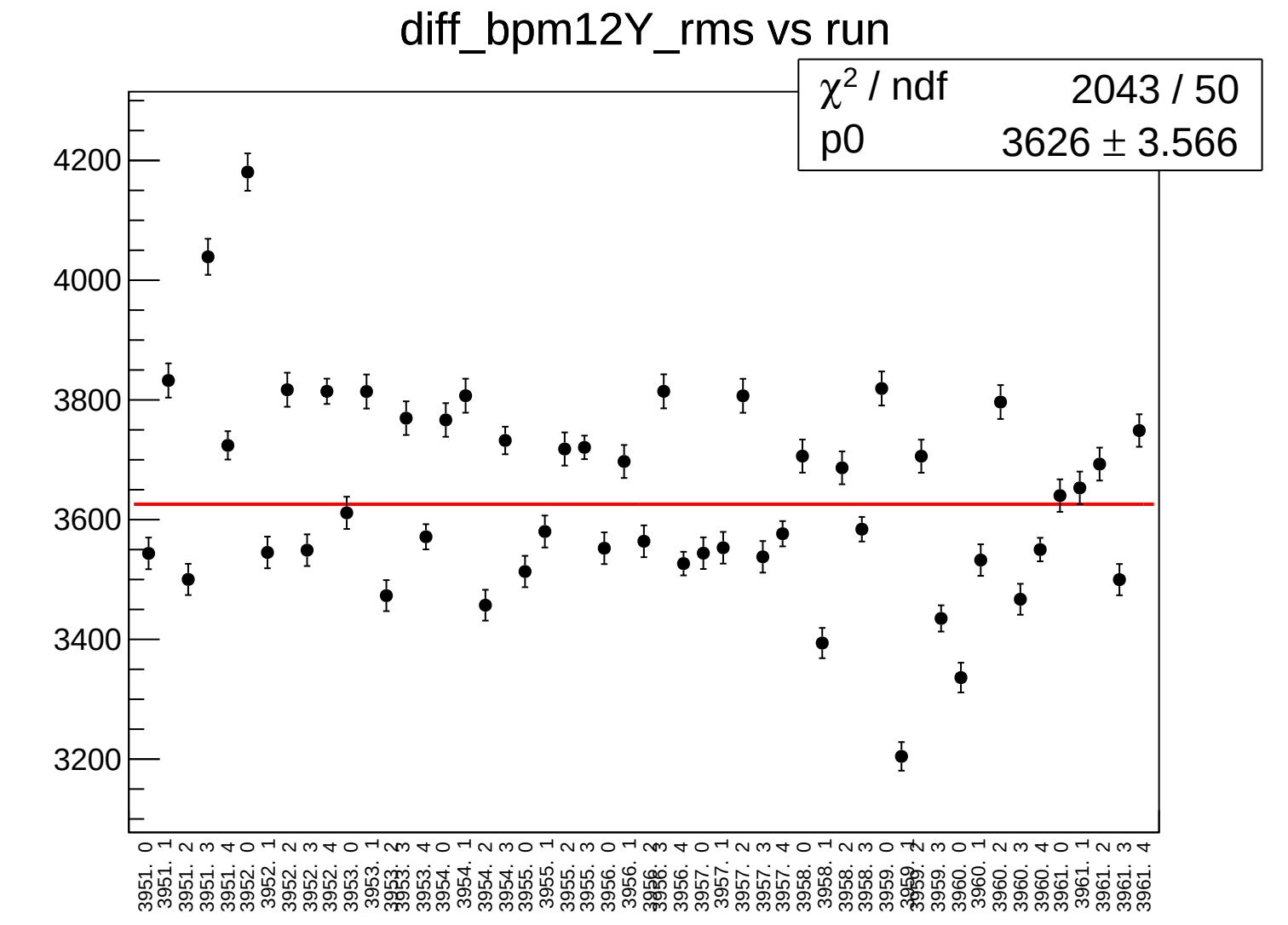

diff_bpm12X_mean vs run
χ² / ndf 52.37 / 50
p0 2.858 ± 6.497
pull
Entries 51
Mean −990
Std Dev 1011


pull1D
Entries 51
Mean 0.004251
Std Dev 1.013


diff_bpm12X_rms vs run
χ² / ndf 2231 / 50
p0 4671 ± 4.594
5000
4800
4600
4400
4200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


diff_bpm12Y_mean vs run
χ^2 / ndf 44.11 / 50
p0 7.346 ± 5.043
150
100
50
0
−50
−100
pull
Entries 51
Mean 312.6
Std Dev 288.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.009464
Std Dev 0.9299
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm12Y_rms vs run
χ² / ndf 2043 / 50
p0 3626 ± 3.566
4200
4000
3800
3600
3400
3200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
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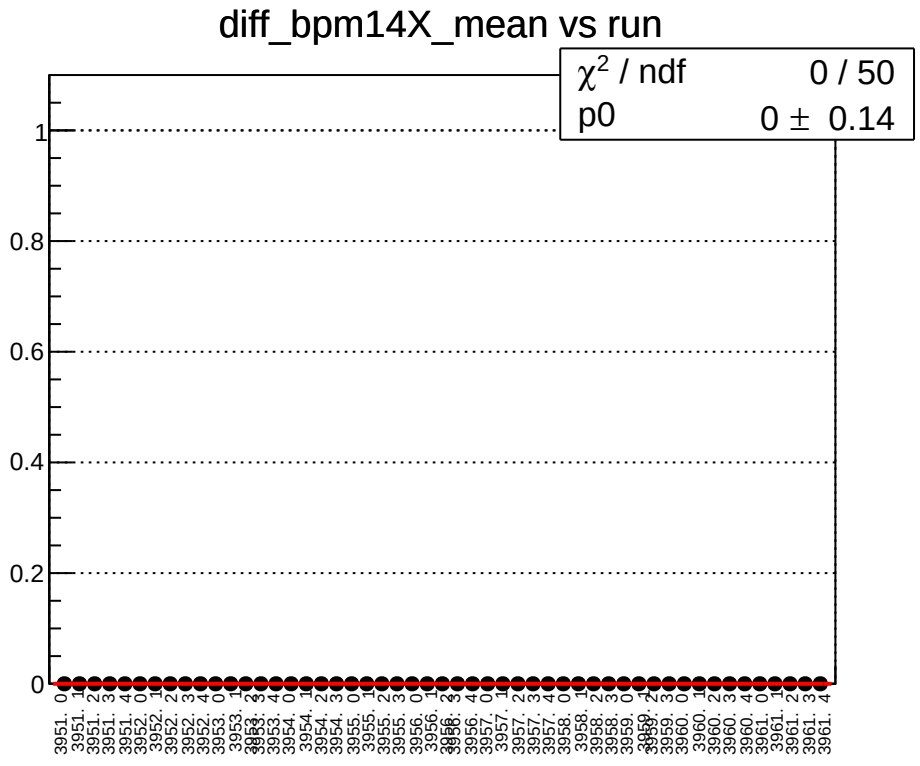
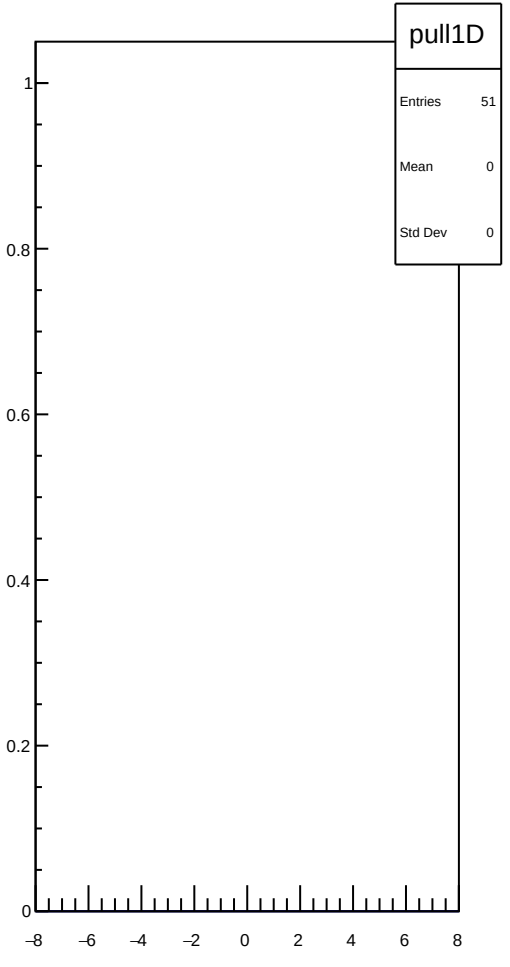
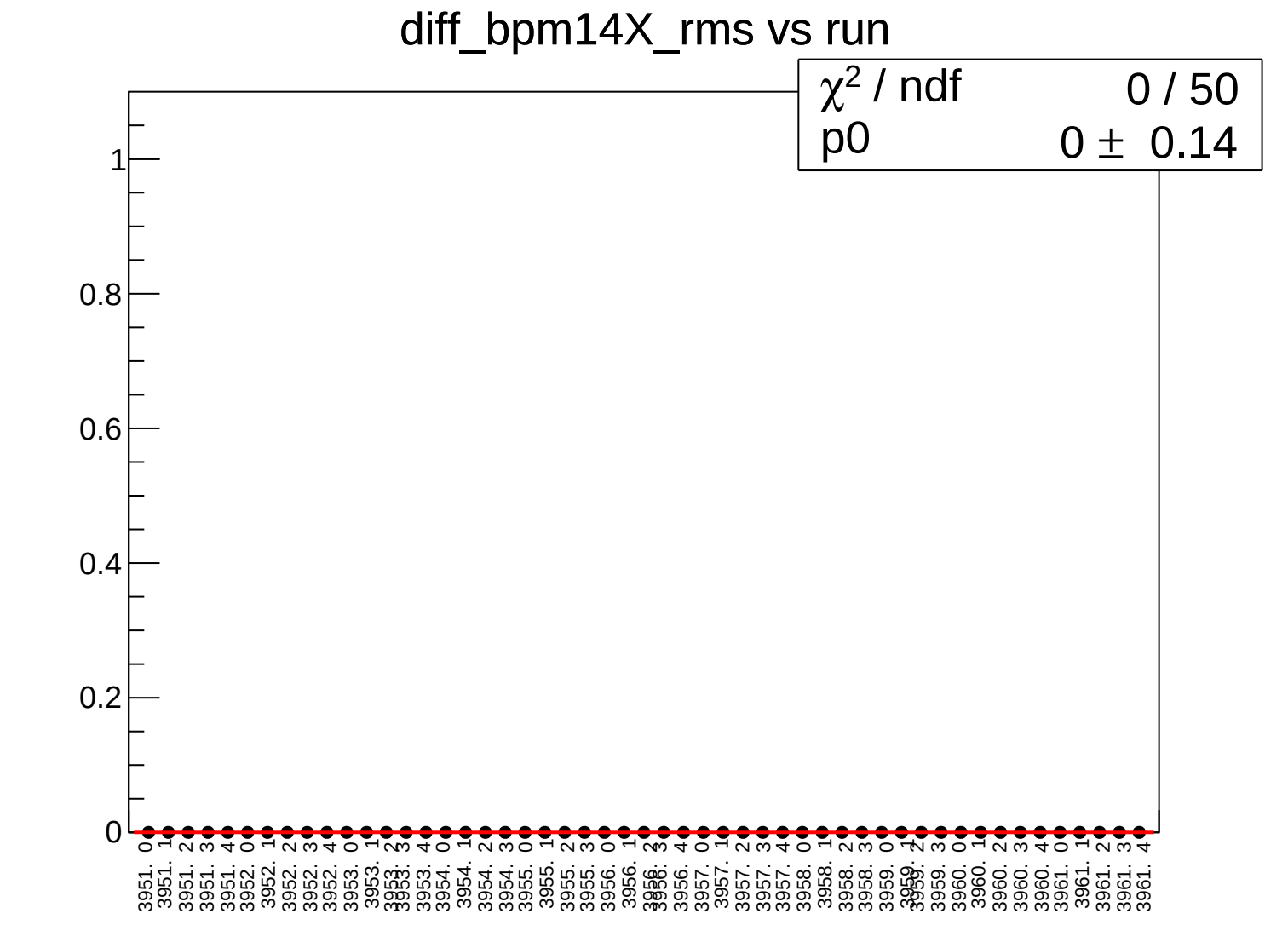
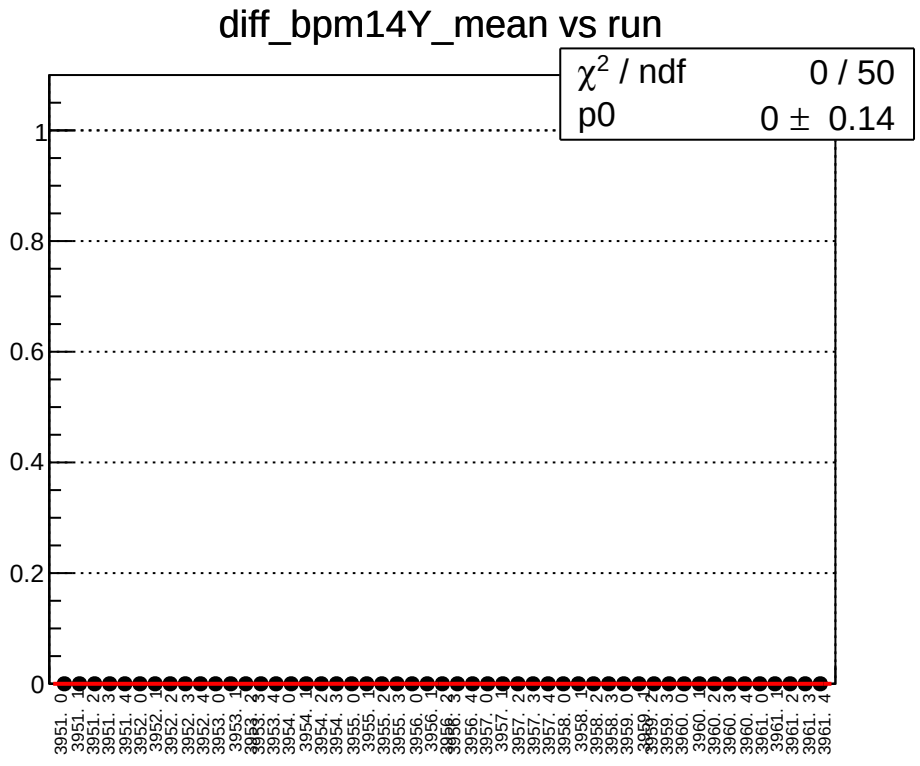
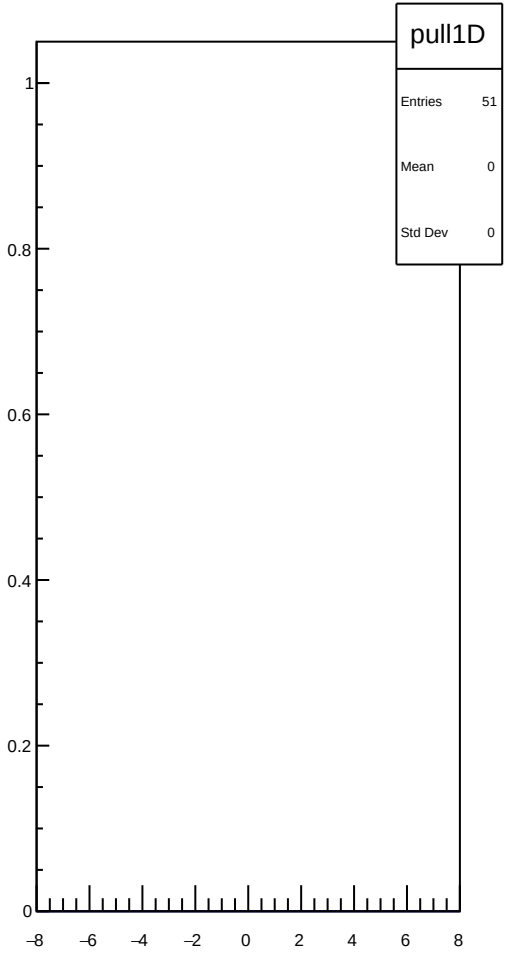
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

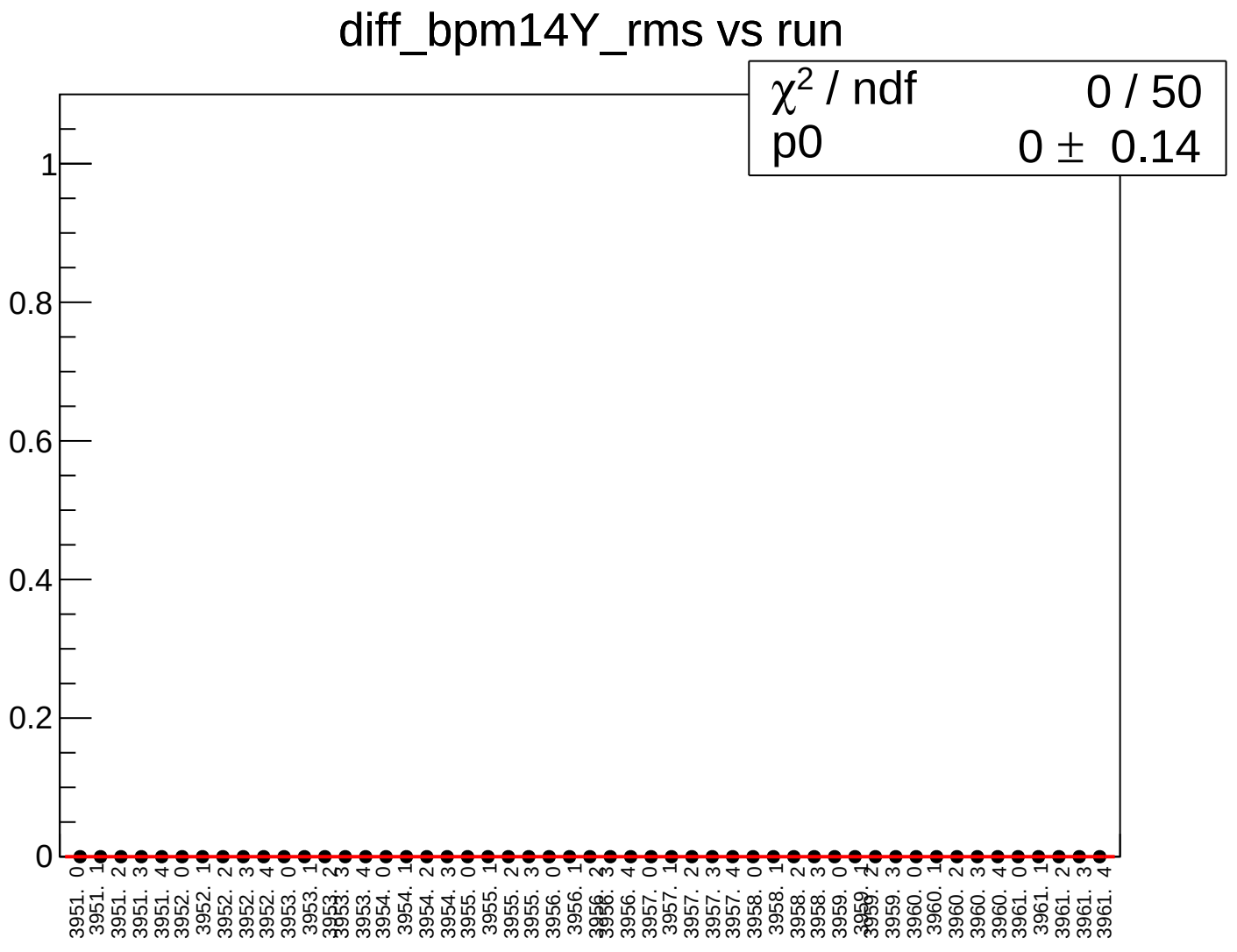

diff_bpm14X_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

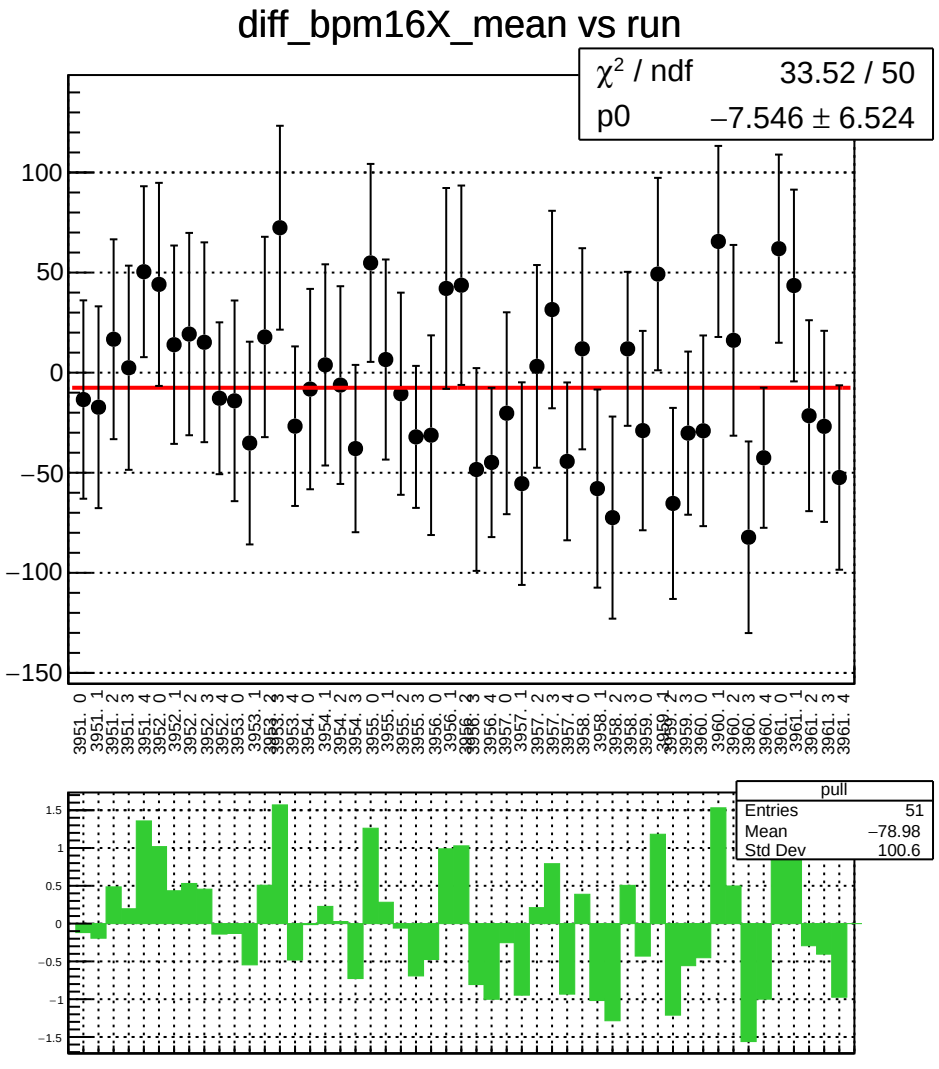

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

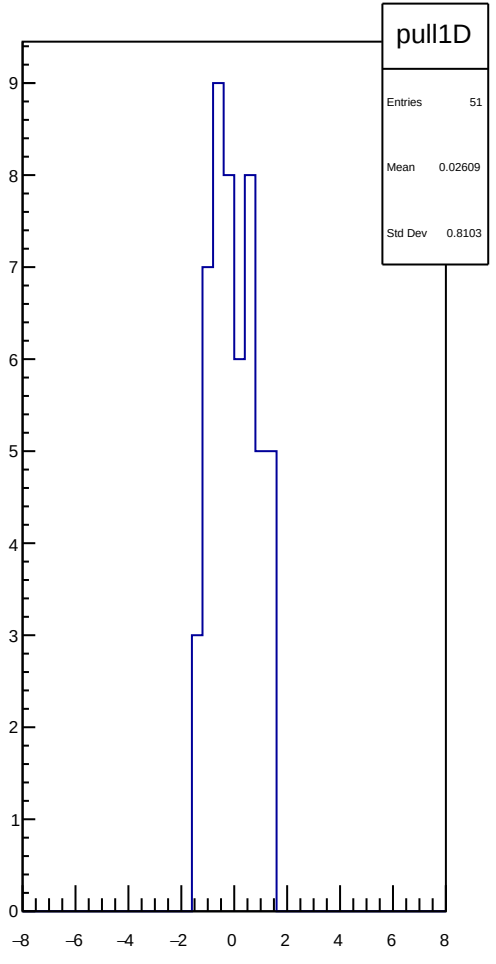

diff_bpm14X_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

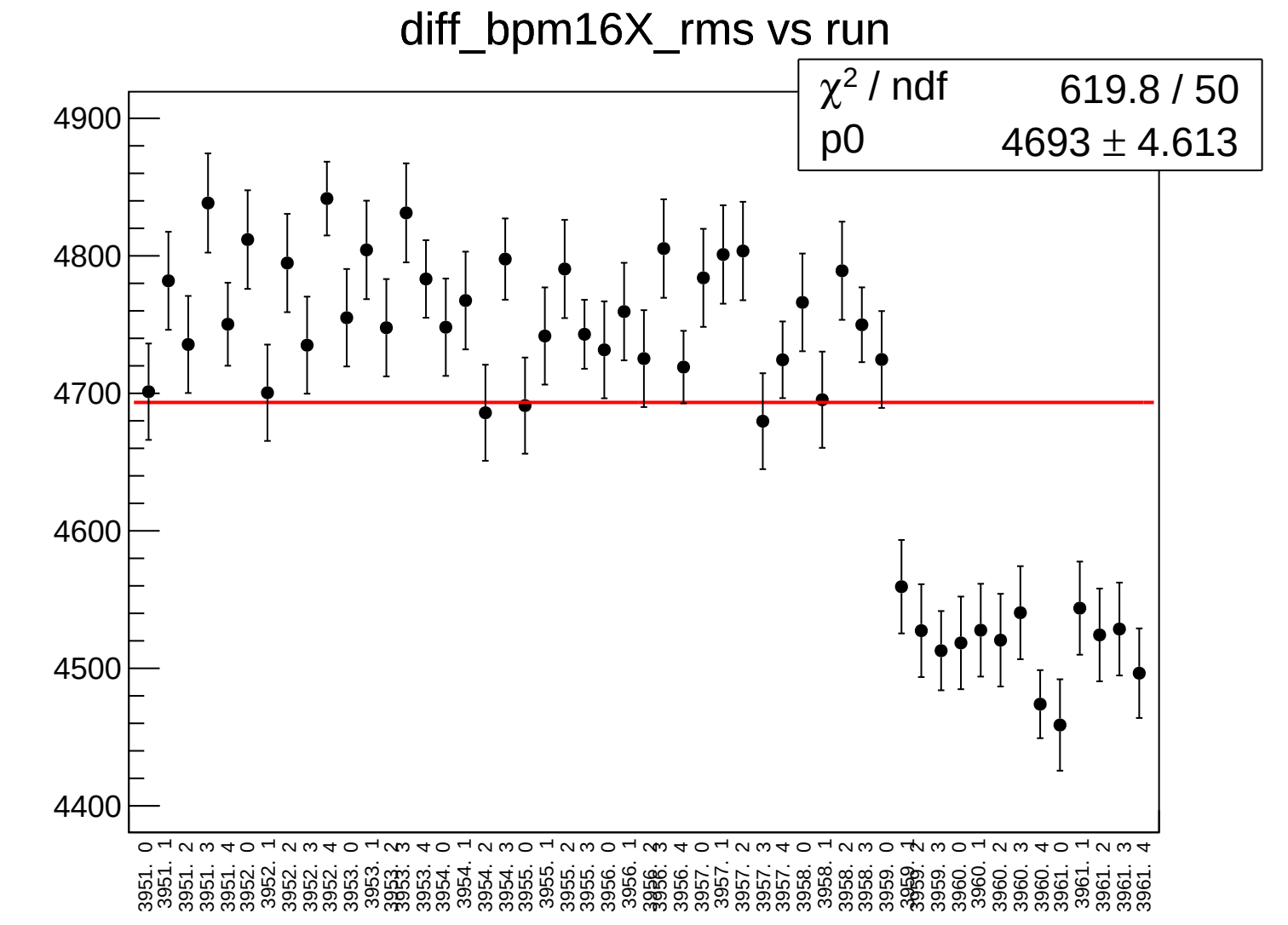

diff_bpm14Y_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

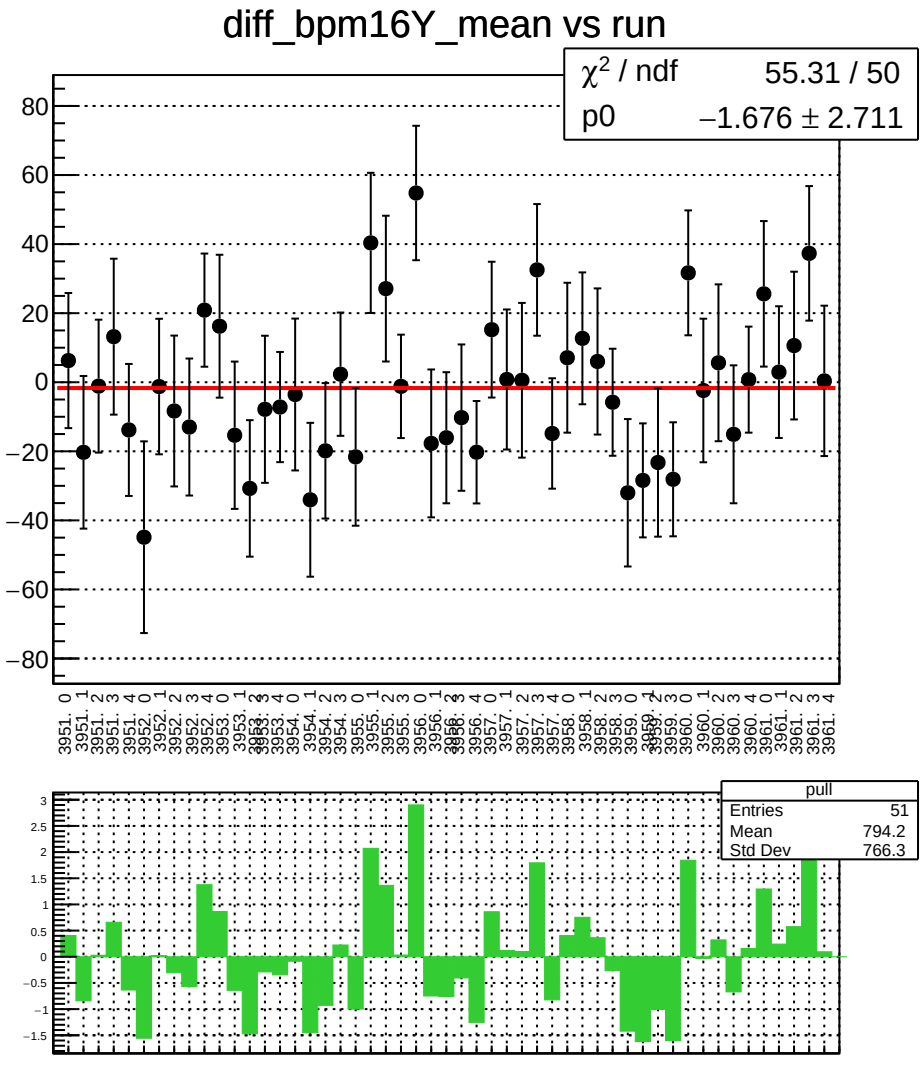

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

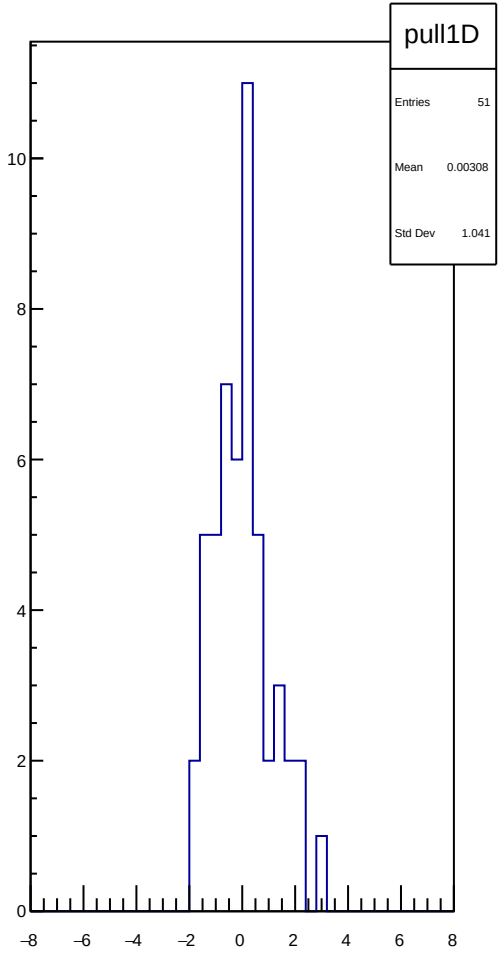

diff_bpm14Y_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

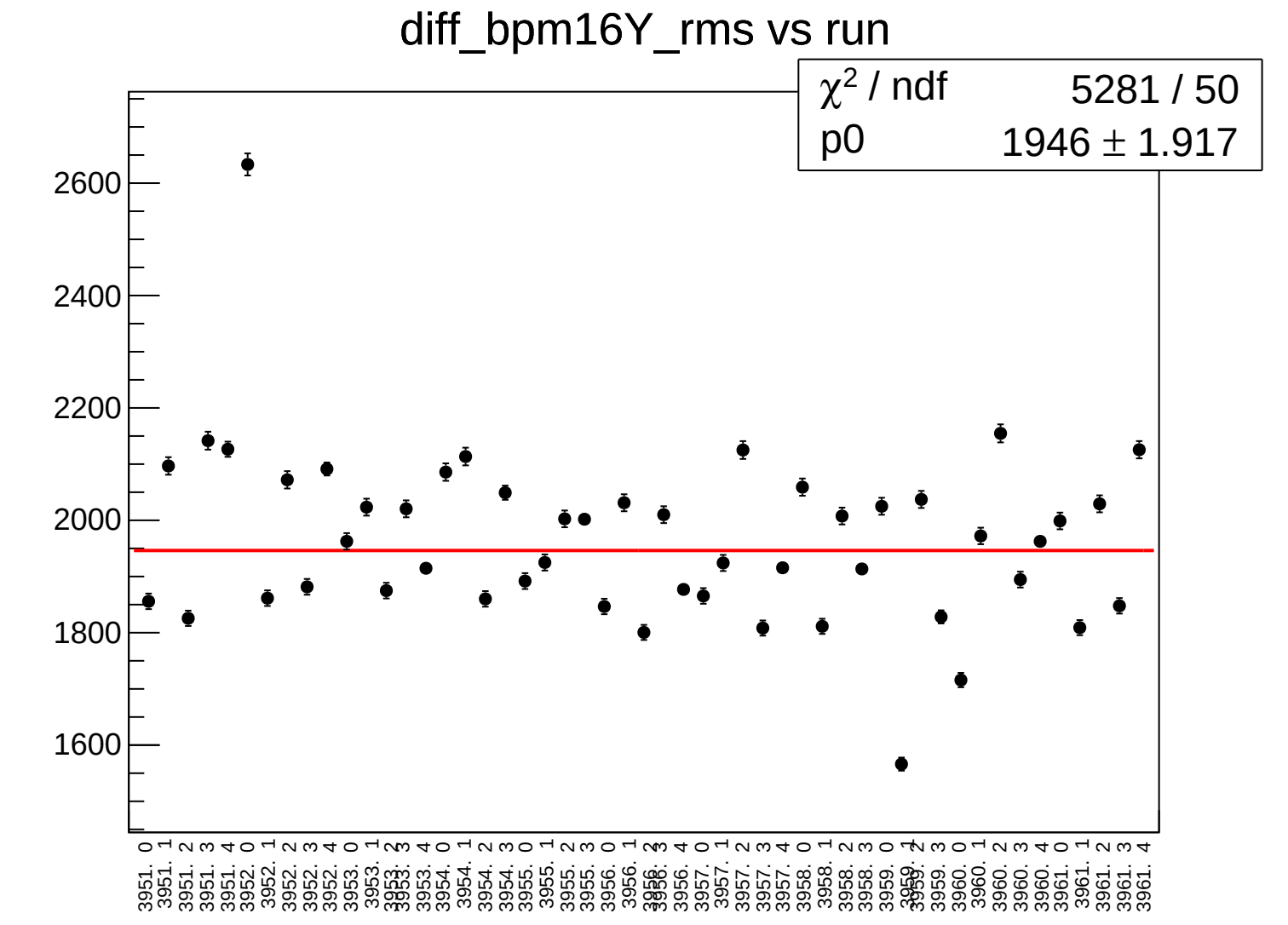

diff_bpm16X_mean vs run
χ² / ndf 33.52 / 50
p0 −7.546 ± 6.524
100
50
0
−50
−100
−150
pull
Entries 51
Mean −78.98
Std Dev 100.6
1.5
1
0.5
0
−0.5
−1
−1.5

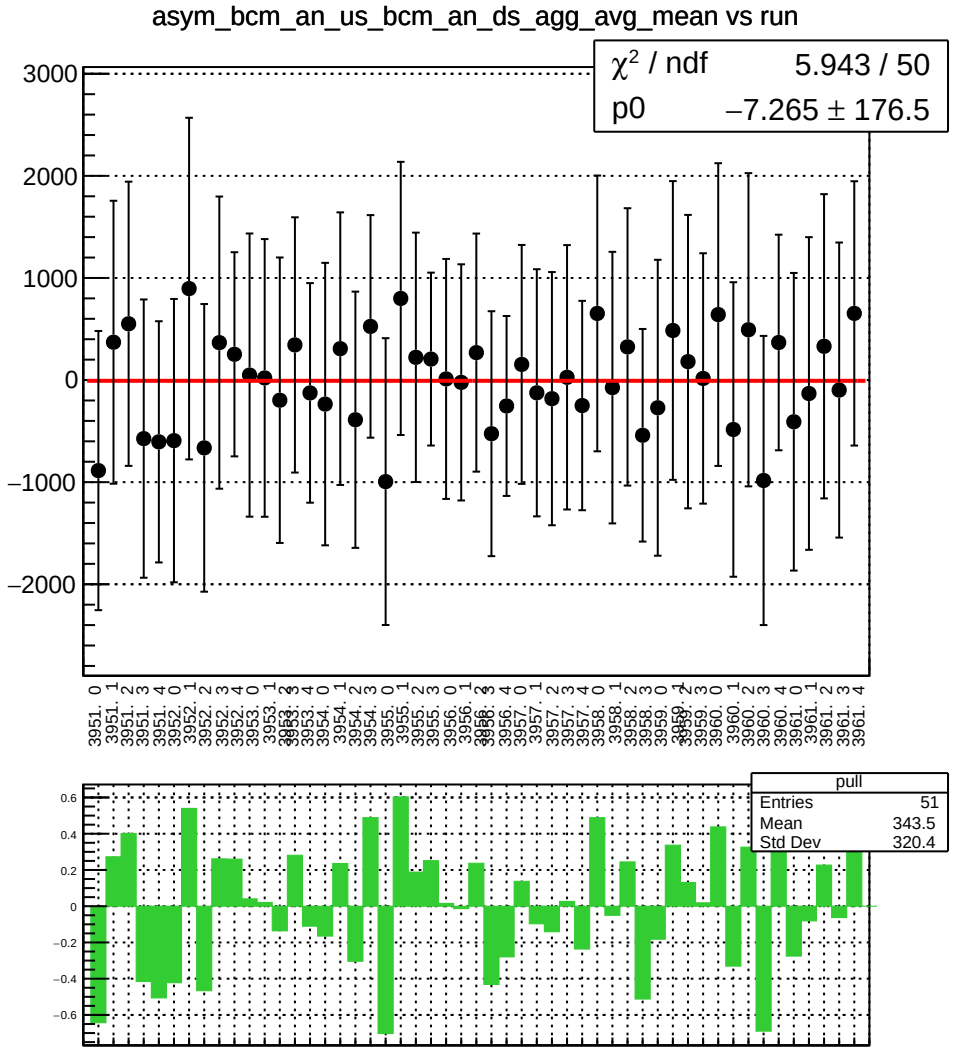

pull1D
Entries 51
Mean 0.02609
Std Dev 0.8103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

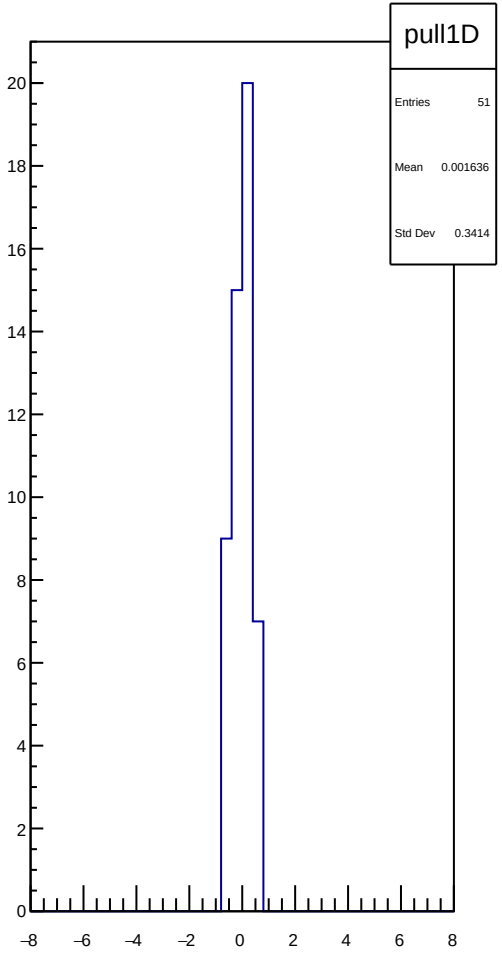

diff_bpm16X_rms vs run
χ² / ndf 619.8 / 50
p0 4693 ± 4.613
4900
4800
4700
4600
4500
4400
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

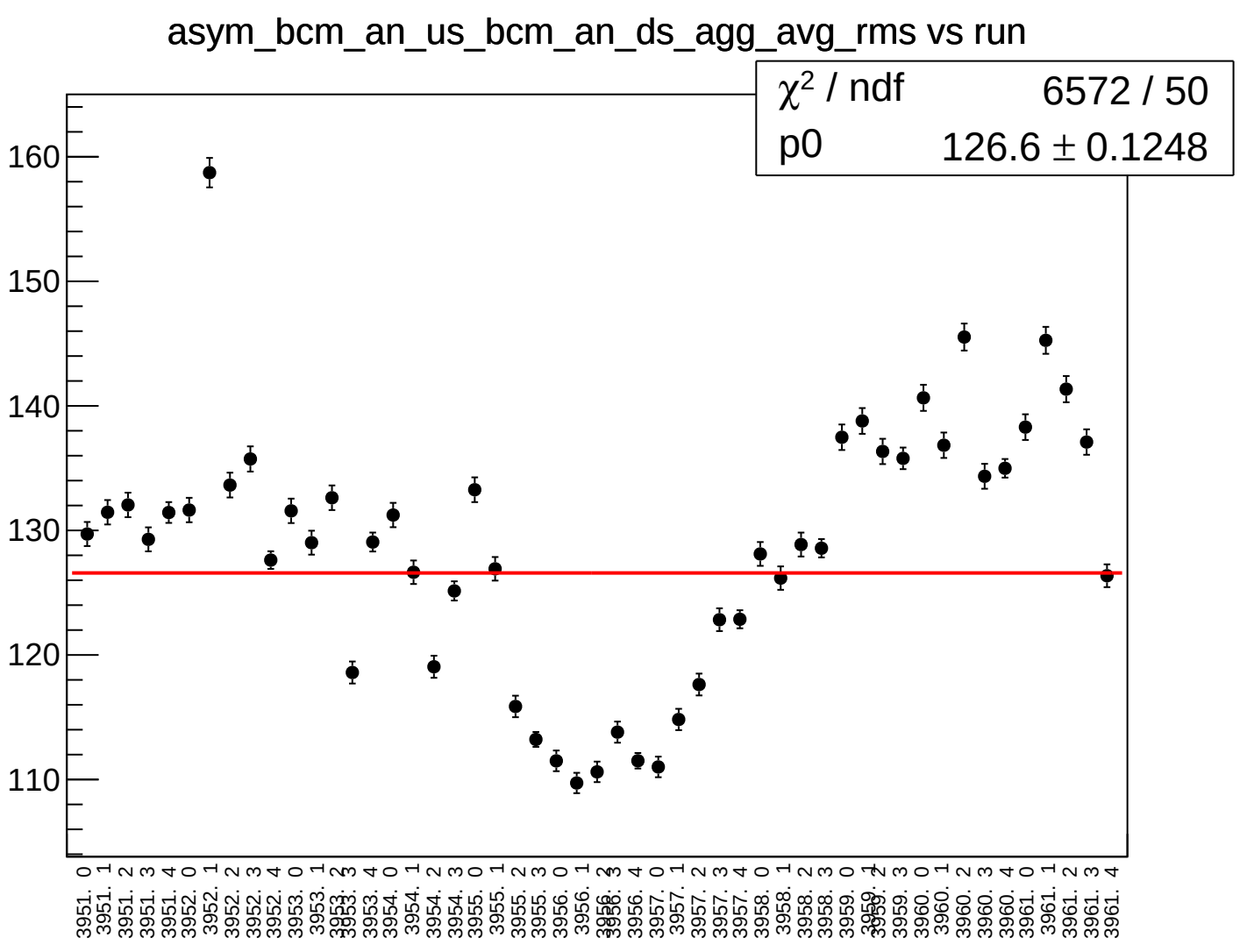

diff_bpm16Y_mean vs run
χ² / ndf 55.31 / 50
p0 −1.676 ± 2.711
pull
Entries 51
Mean 794.2
Std Dev 766.3


pull1D
Entries 51
Mean 0.00308
Std Dev 1.041


diff_bpm16Y_rms vs run
χ² / ndf 5281 / 50
p0 1946 ± 1.917
2600
2400
2200
2000
1800
1600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.943 / 50
p0 −7.265 ± 176.5
pull
Entries 51
Mean 343.5
Std Dev 320.4


pull1D
Entries 51
Mean 0.001636
Std Dev 0.3414


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6572 / 50
p0 126.6 ± 0.1248
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
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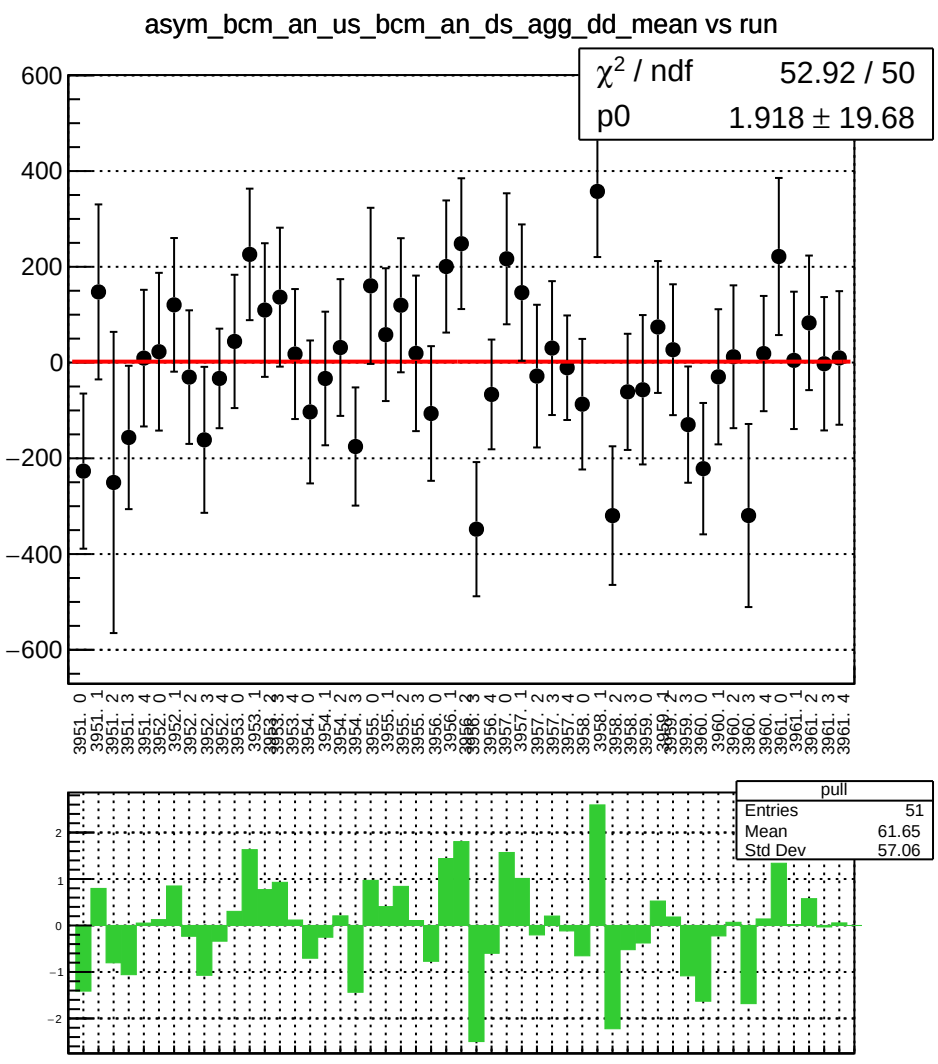
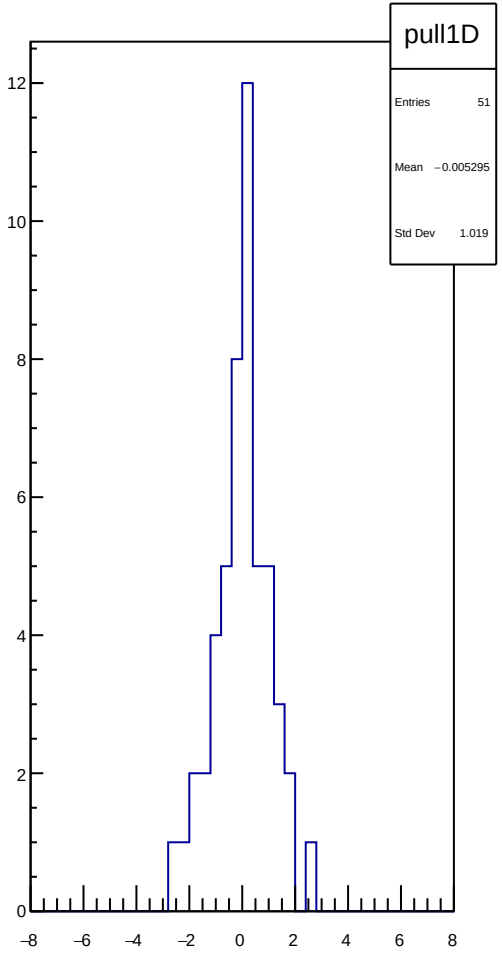
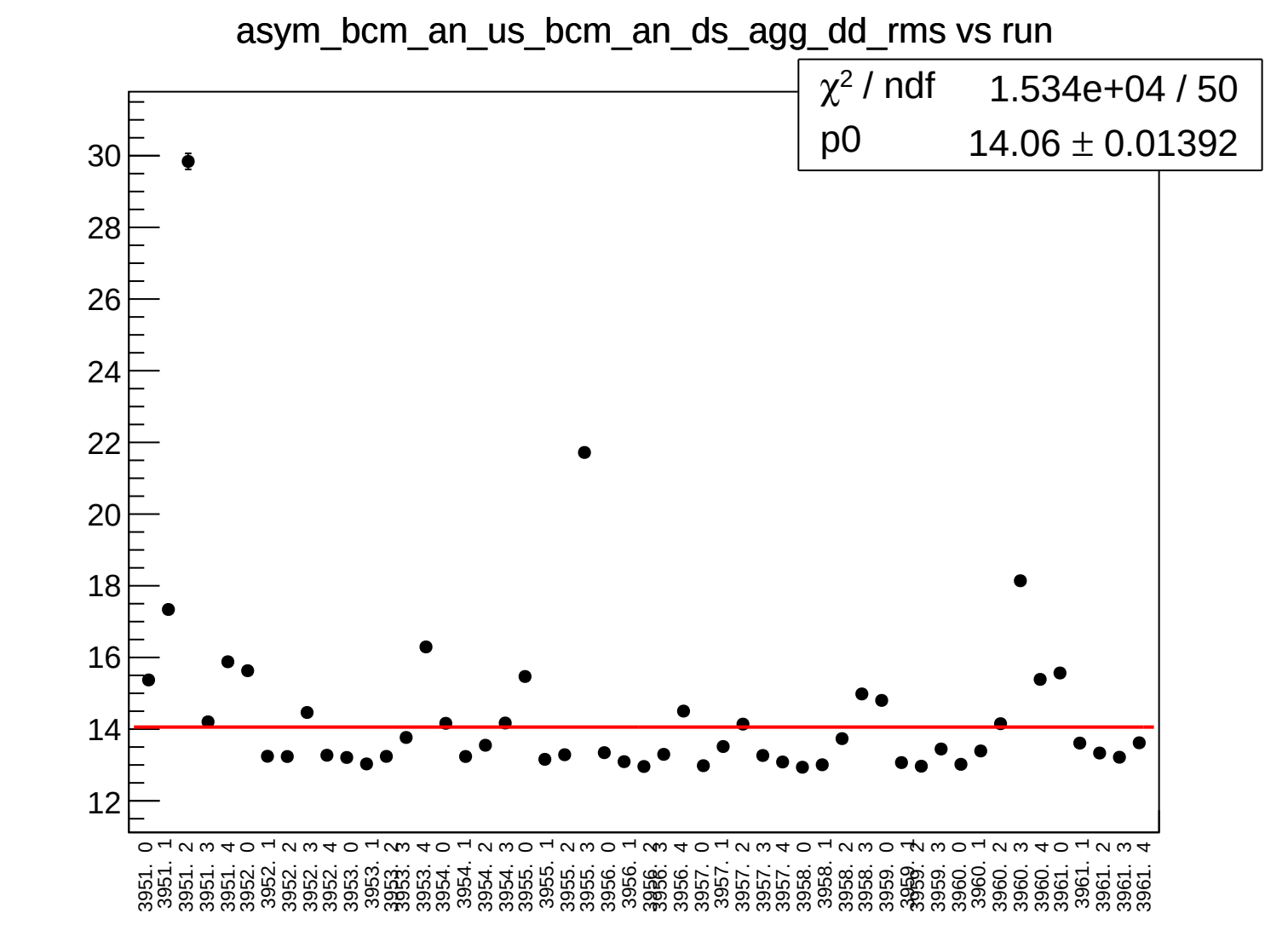
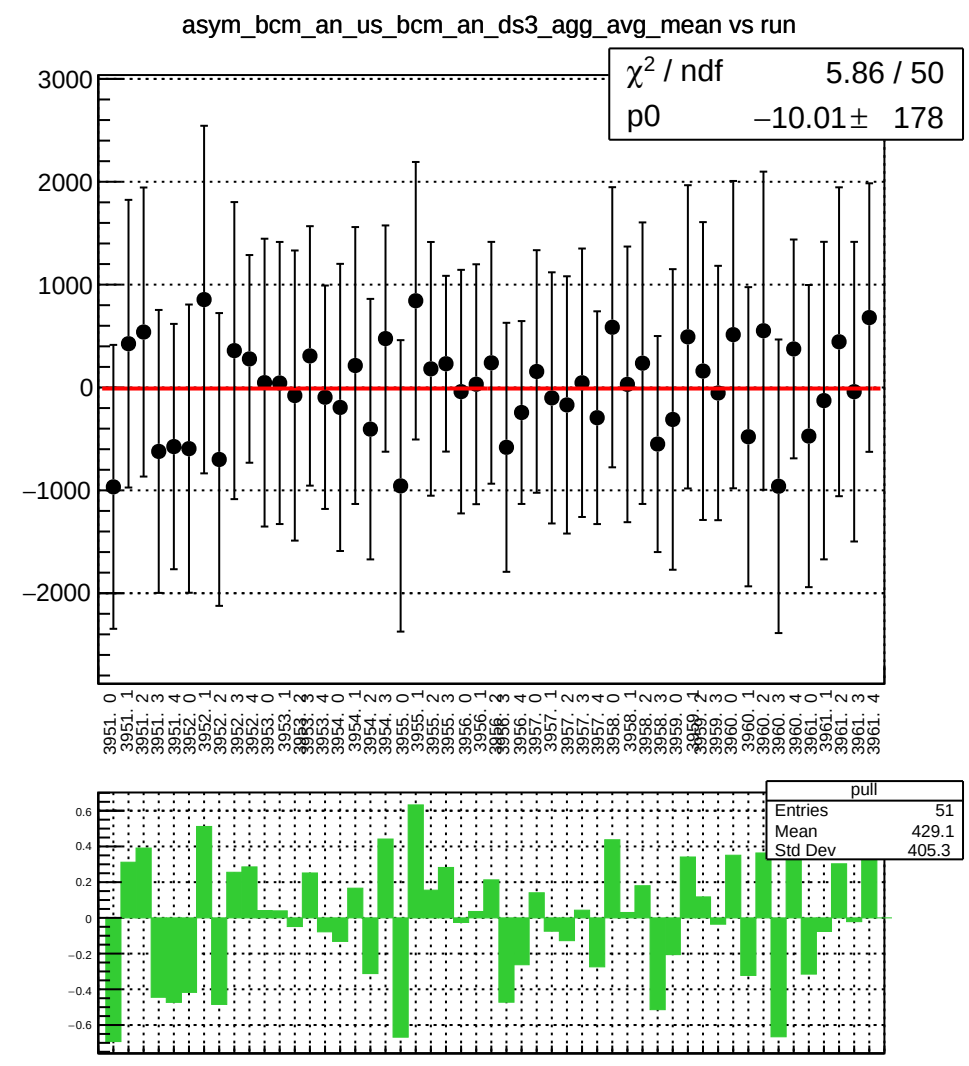
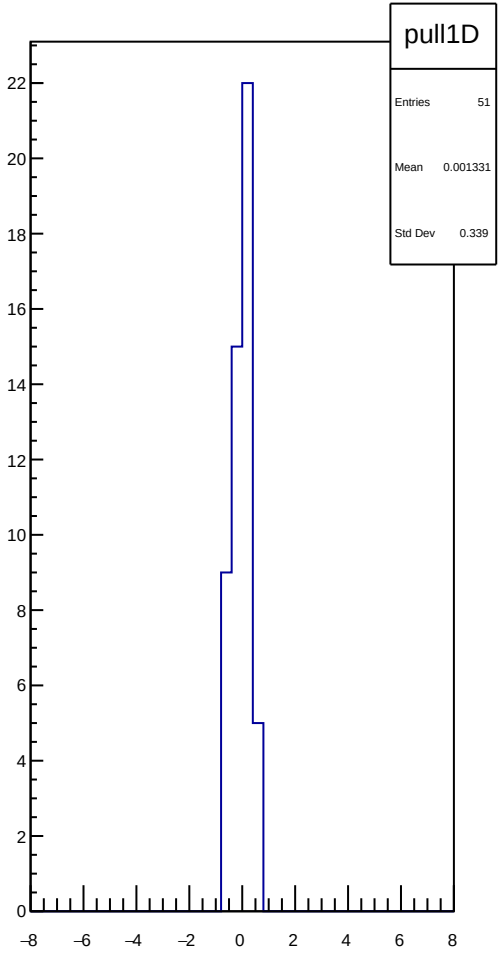
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

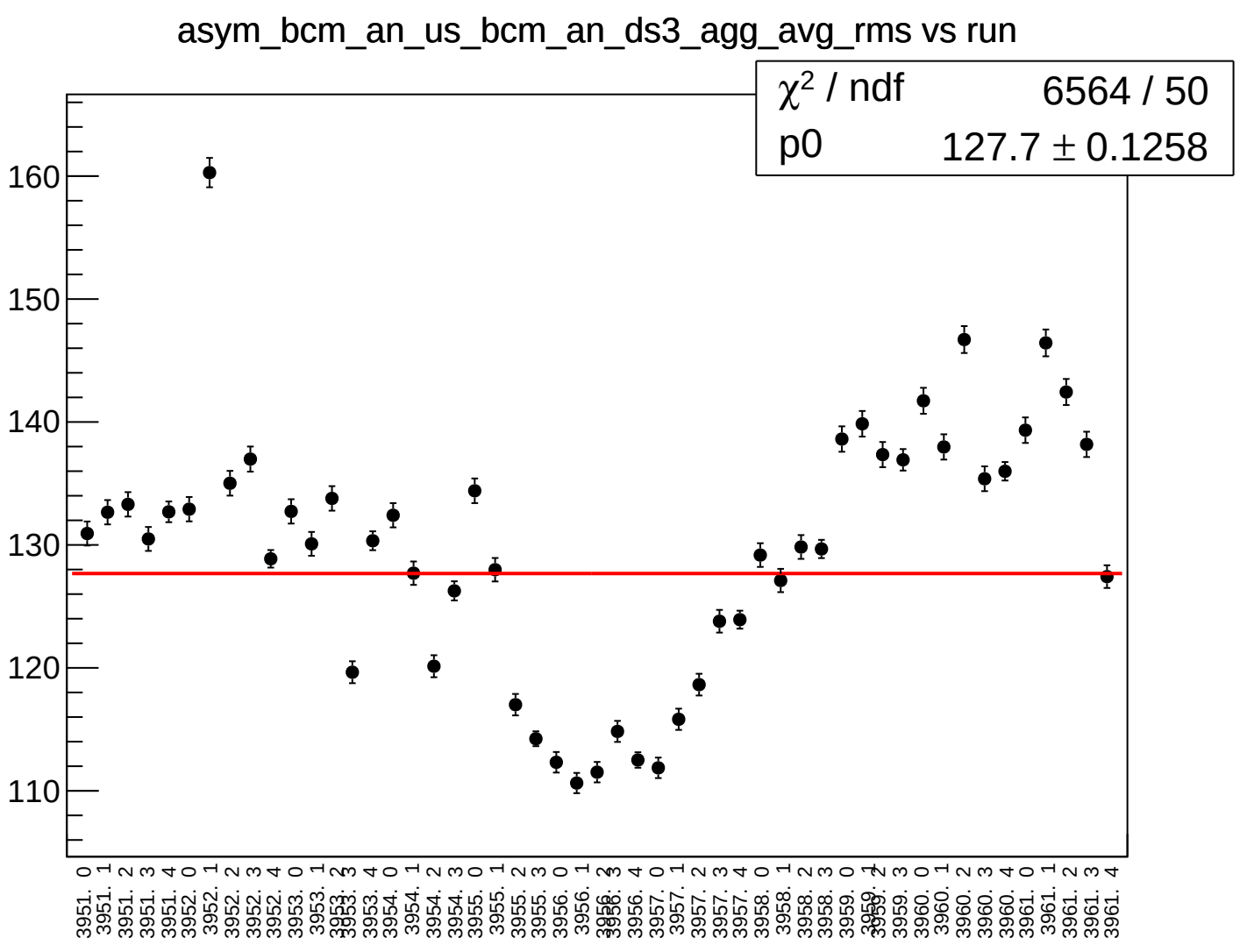

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 52.92 / 50
p0 1.918 ± 19.68
pull
Entries 51
Mean 61.65
Std Dev 57.06

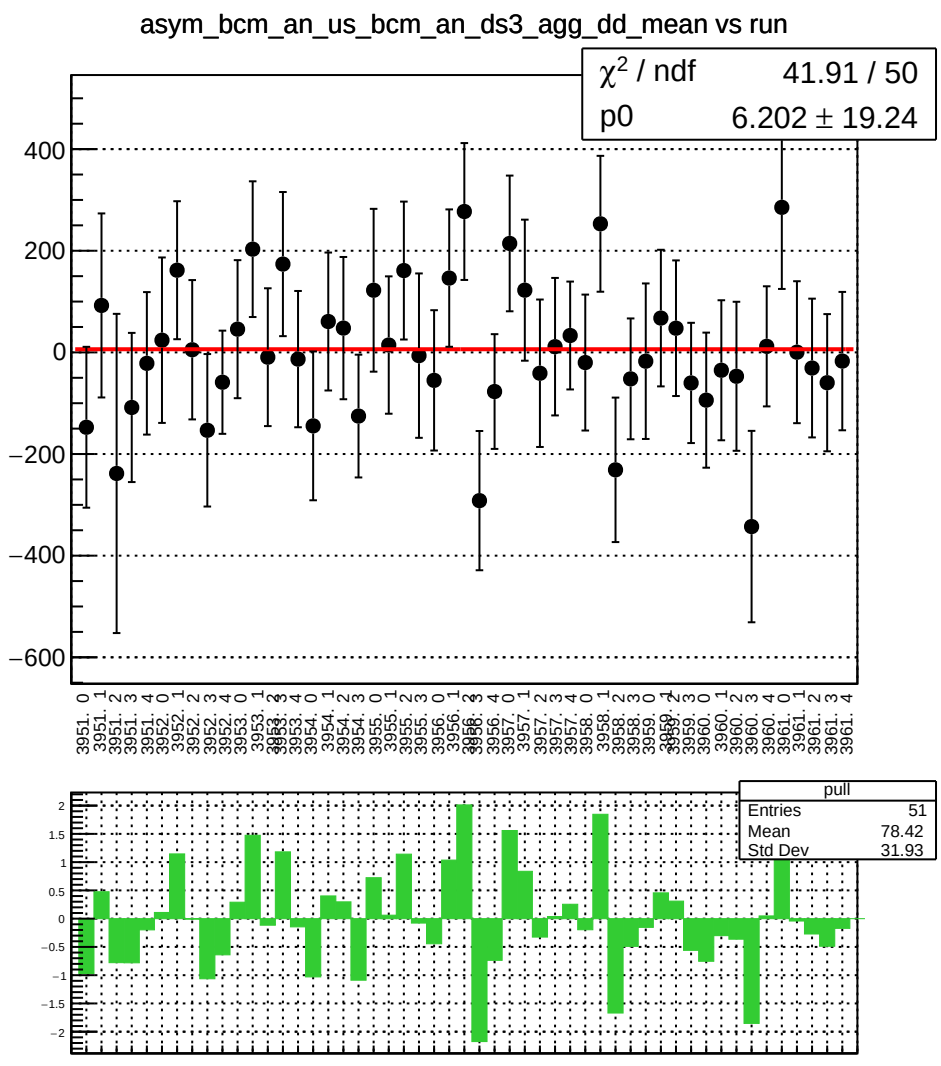

pull1D
Entries 51
Mean −0.005295
Std Dev 1.019

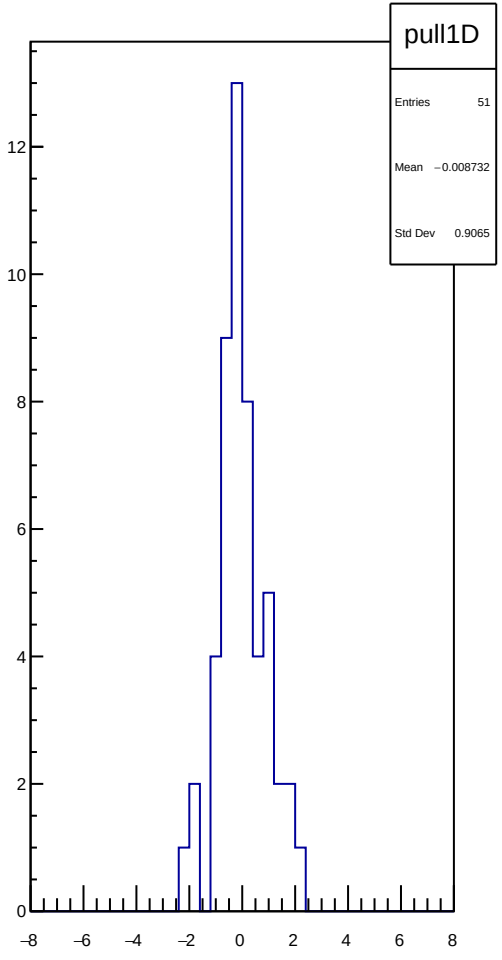

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.534e+04 / 50
p0 14.06 ± 0.01392
30
28
26
24
22
20
18
16
14
12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

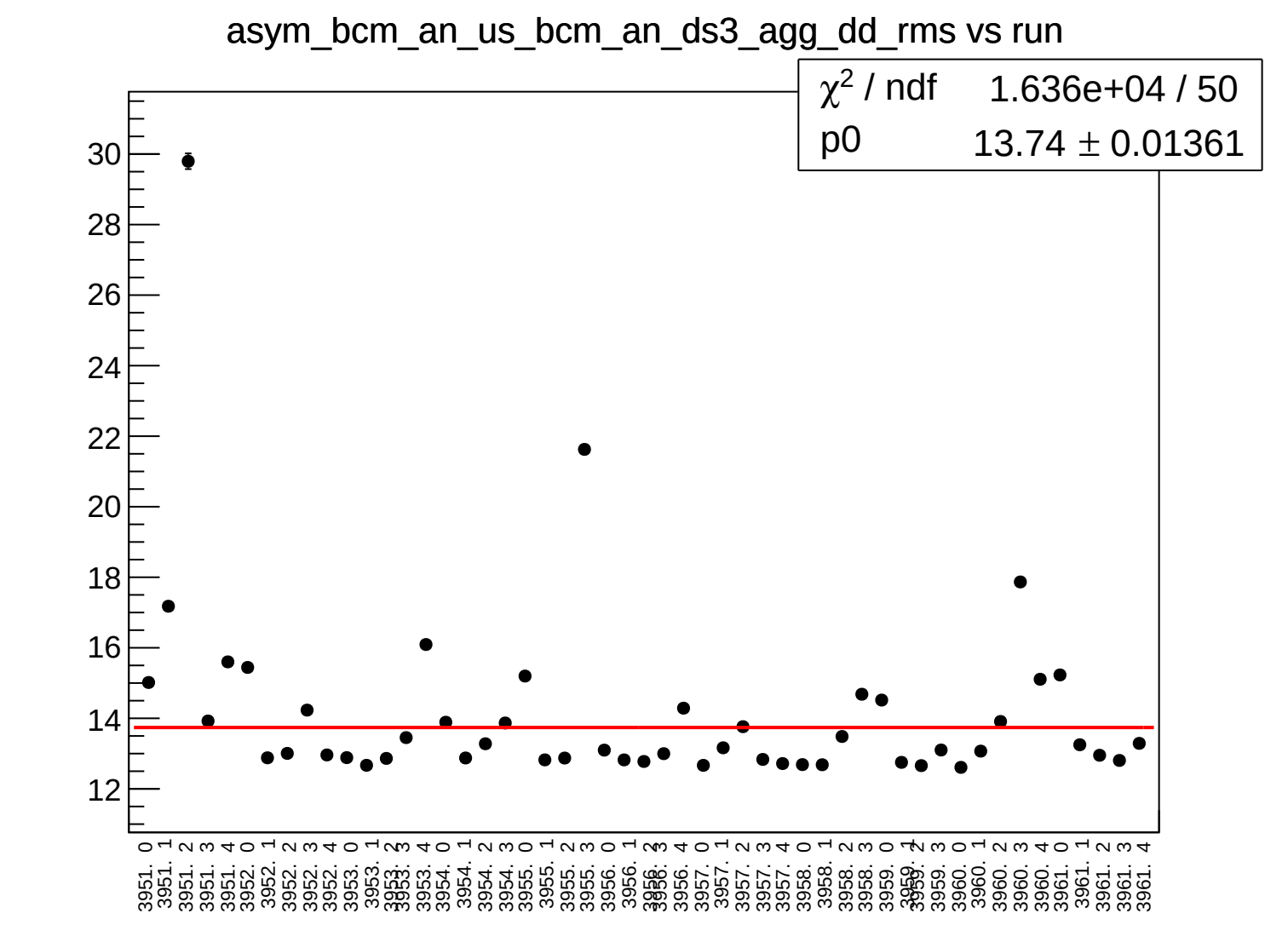

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 5.86 / 50
p0 −10.01 ± 178
pull
Entries 51
Mean 429.1
Std Dev 405.3


pull1D
Entries 51
Mean 0.001331
Std Dev 0.339


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 6564 / 50
p0 127.7 ± 0.1258
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ^2 / ndf 41.91 / 50
p0 6.202 ± 19.24
400
200
0
−200
−400
−600
pull
Entries 51
Mean 78.42
Std Dev 31.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.008732
Std Dev 0.9065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.636e+04 / 50
p0 13.74 ± 0.01361
30
28
26
24
22
20
18
16
14
12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
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3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
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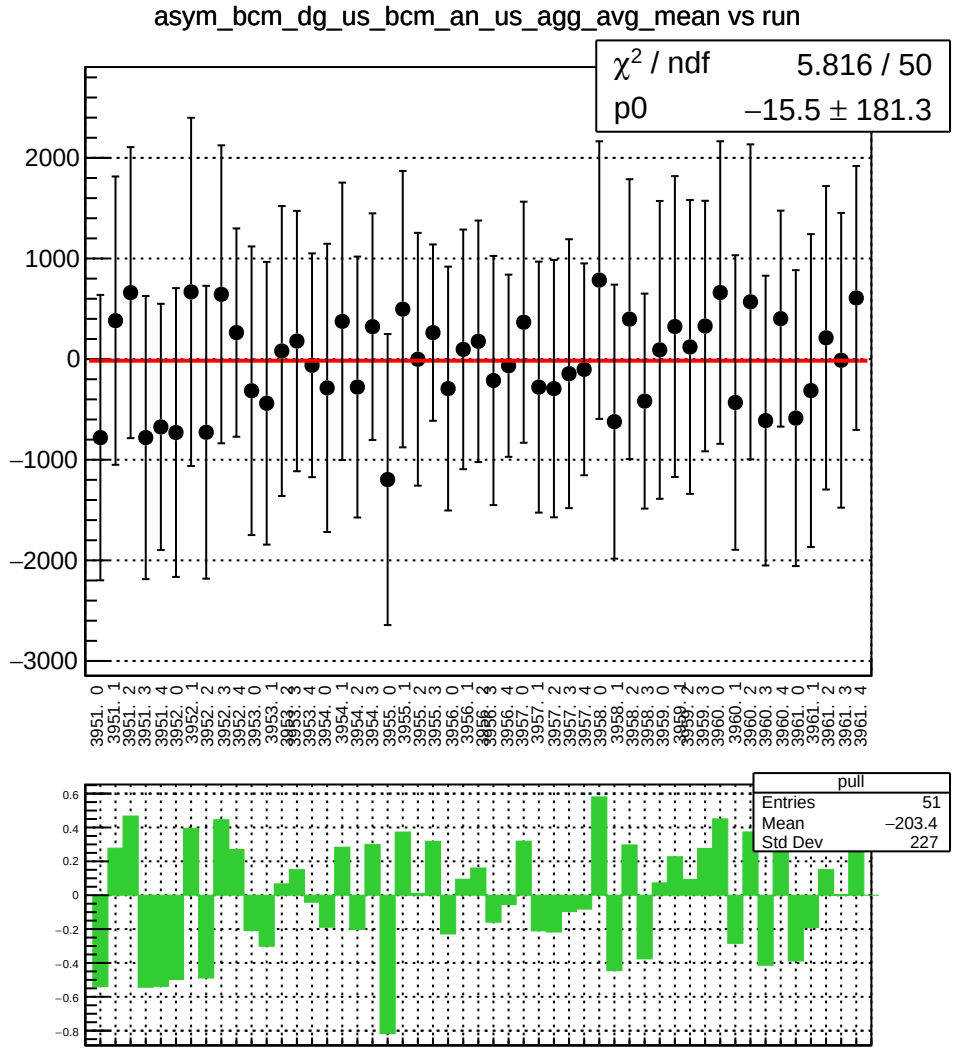
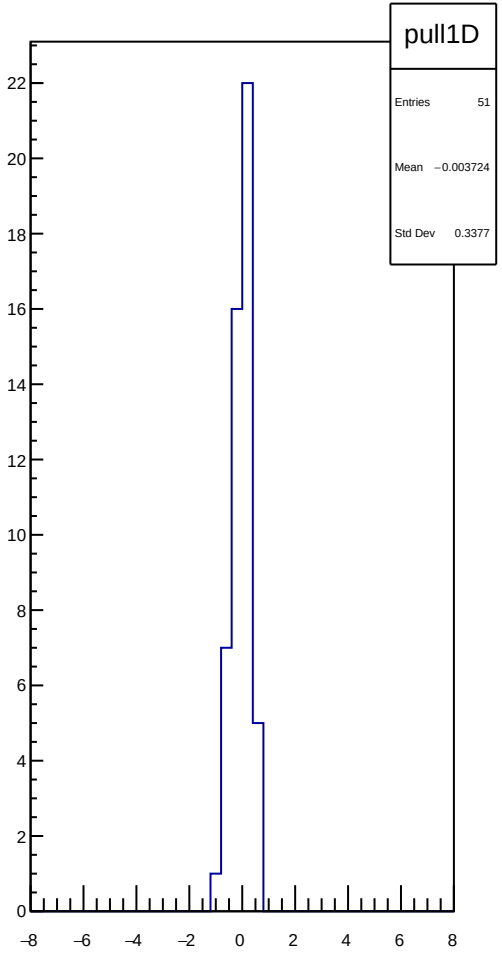
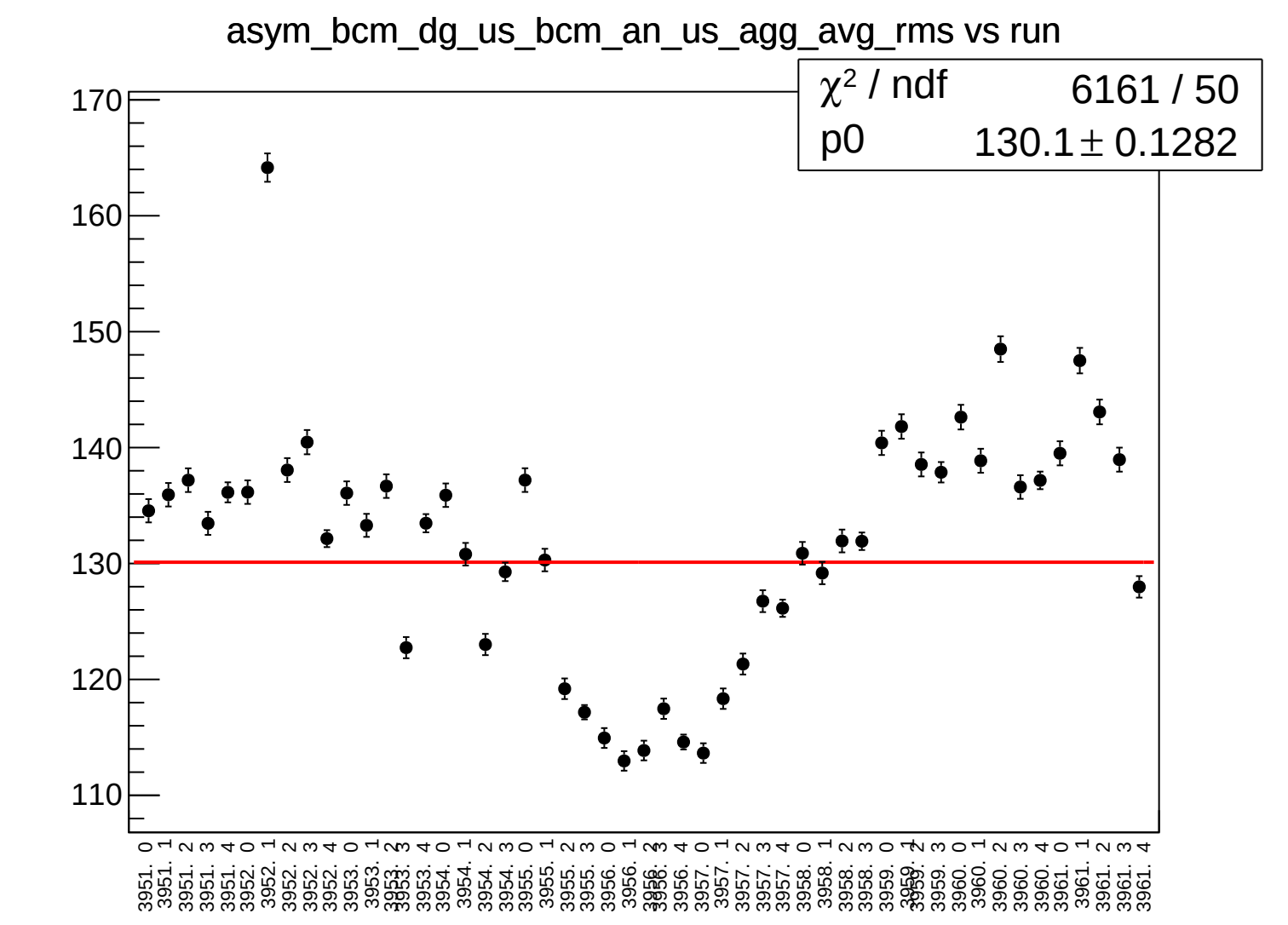
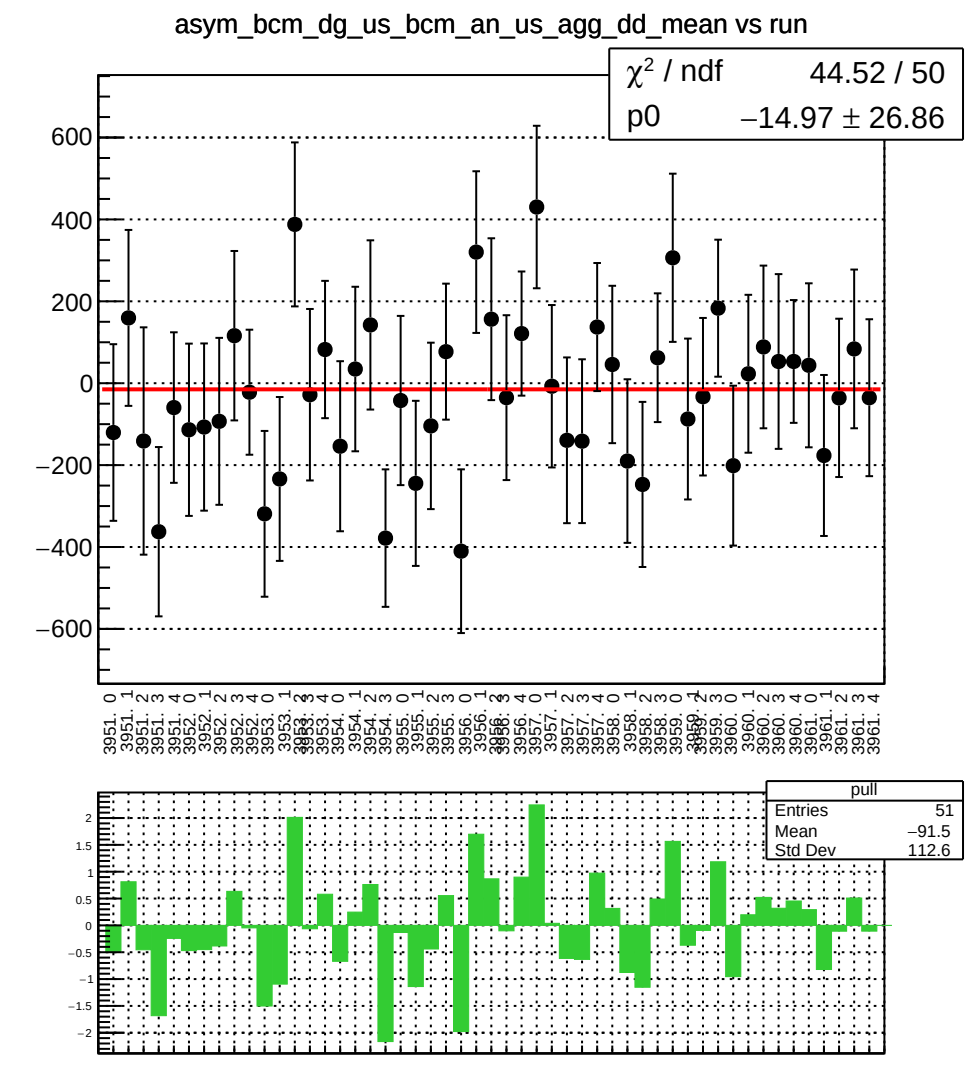
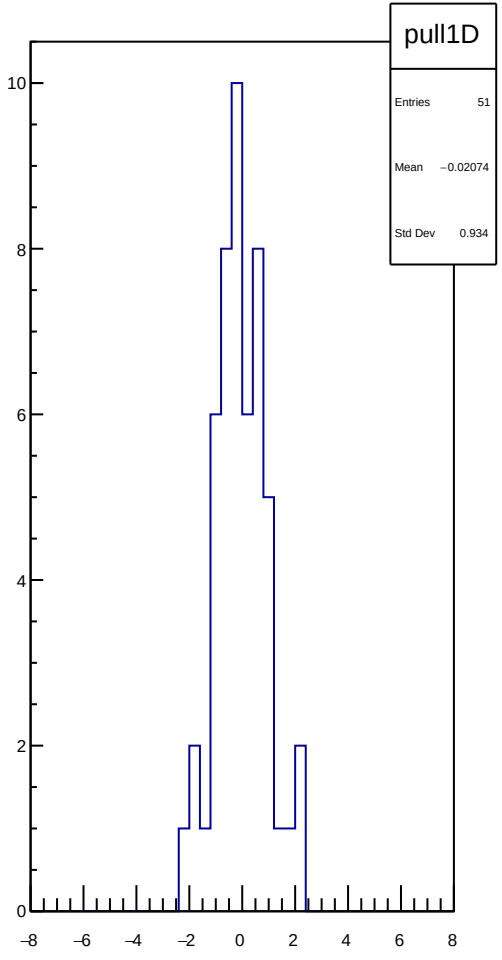
3961. 1
3961. 2
3961. 3
3961. 4

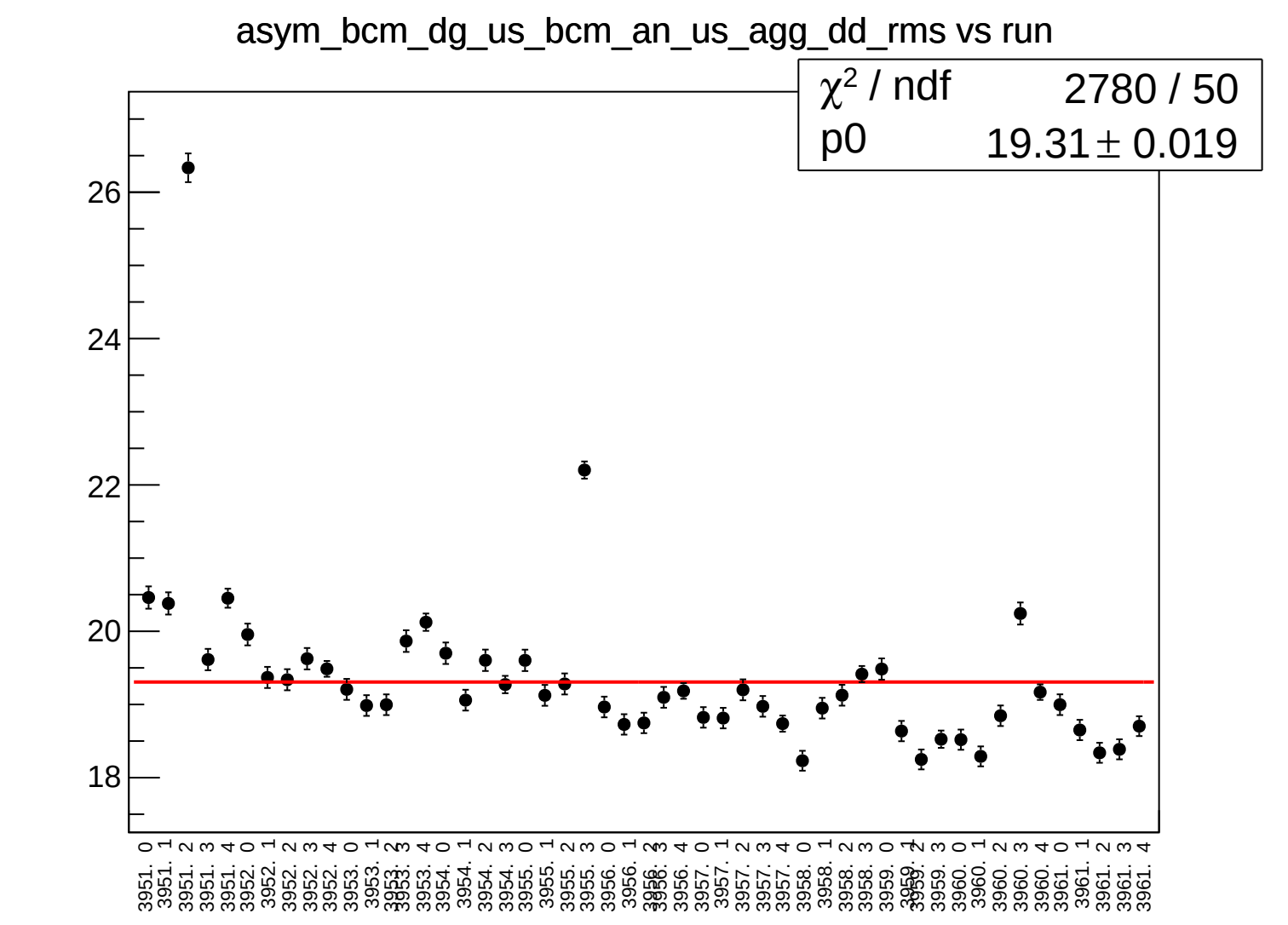

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 5.816 / 50
p0 −15.5 ± 181.3
pull
Entries 51
Mean −203.4
Std Dev 227

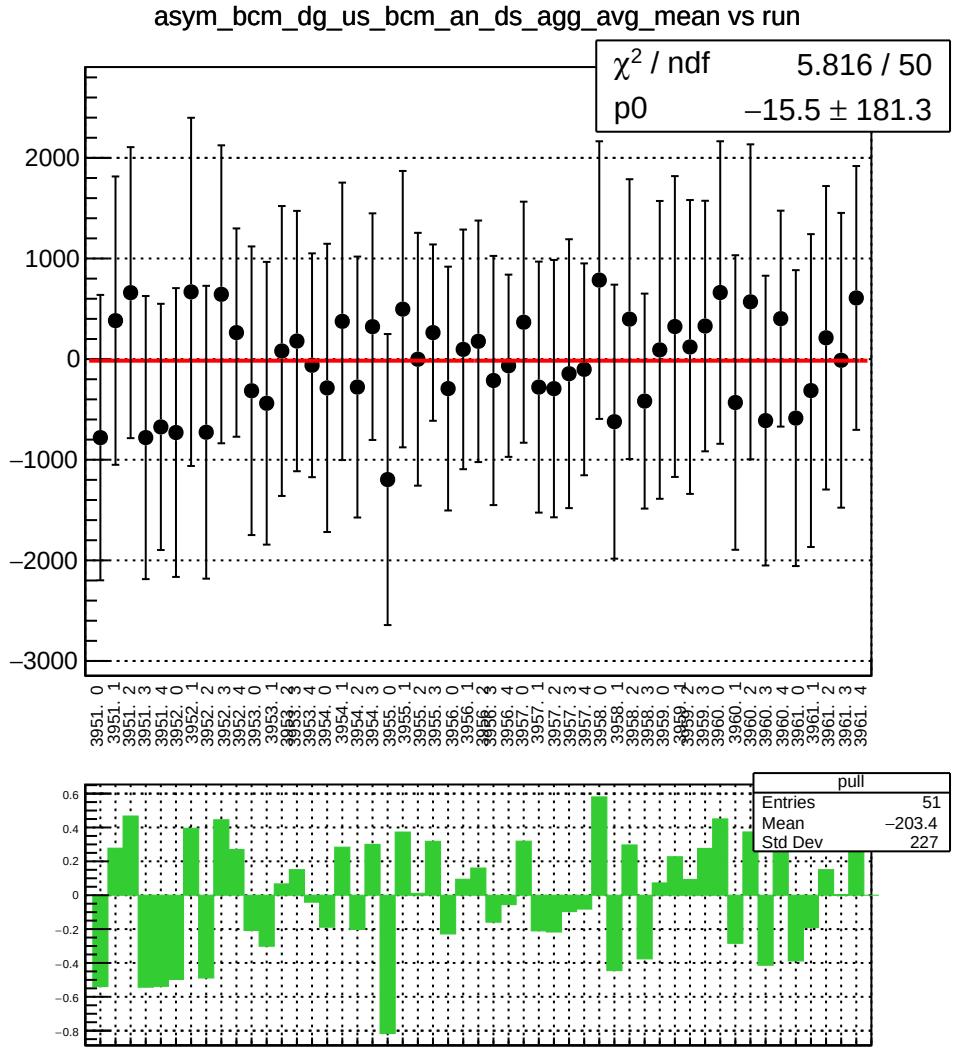

pull1D
Entries 51
Mean −0.003724
Std Dev 0.3377

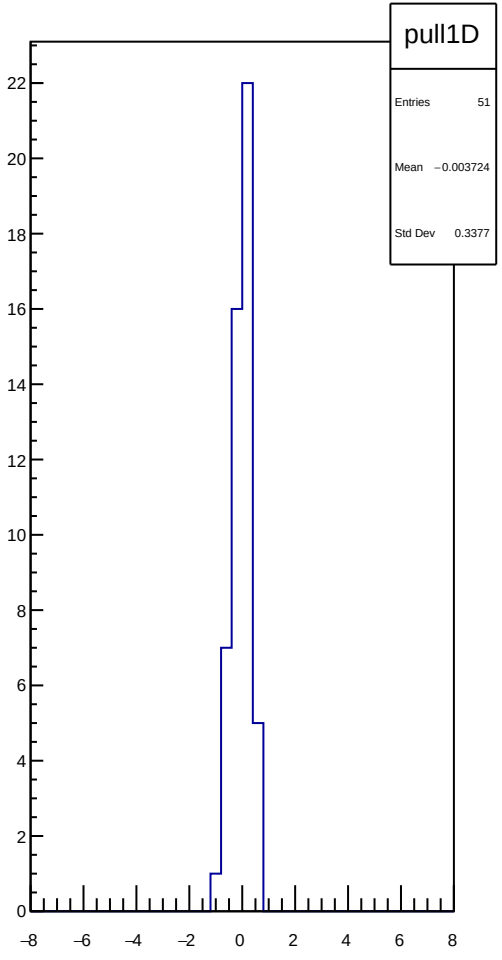

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6161 / 50
p0 130.1 ± 0.1282
170
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

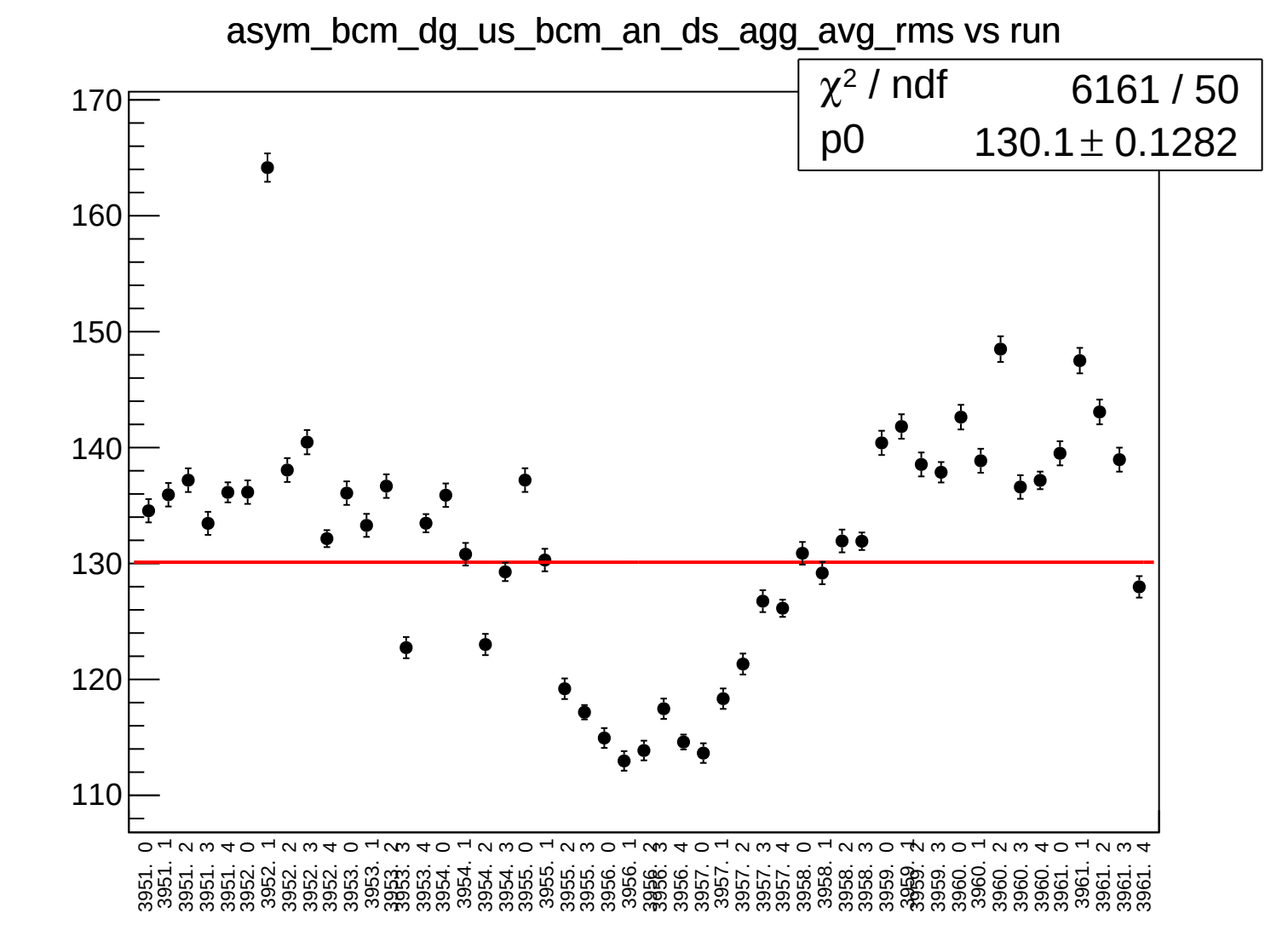

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 44.52 / 50
p0 −14.97 ± 26.86
pull
Entries 51
Mean −91.5
Std Dev 112.6

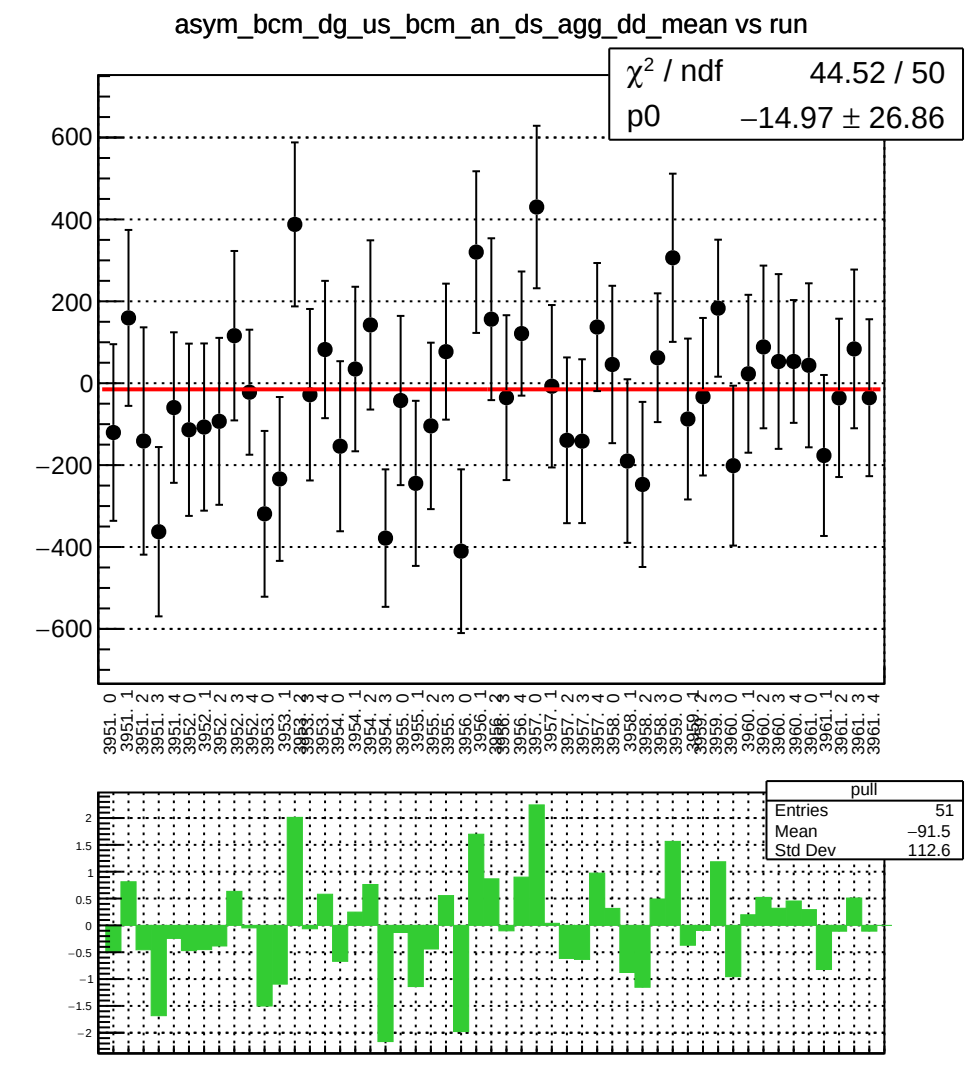

pull1D
Entries 51
Mean −0.02074
Std Dev 0.934

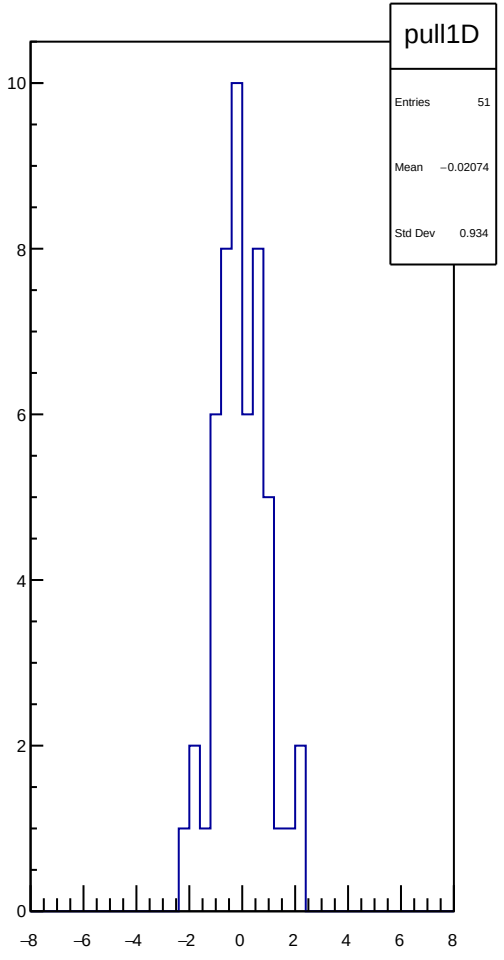

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2780 / 50
p0 19.31 ± 0.019
26
24
22
20
18
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

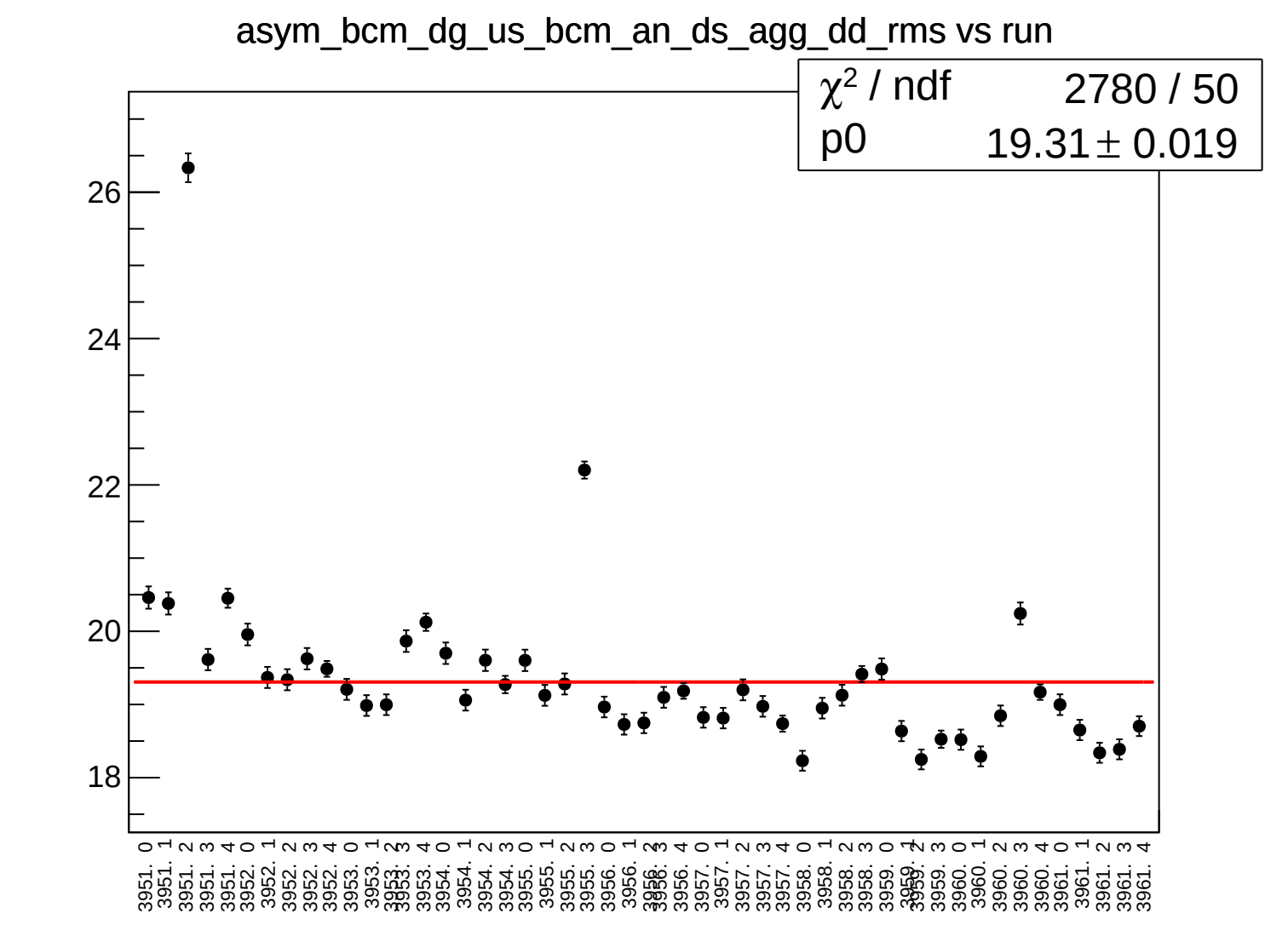

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.816 / 50
p0 −15.5 ± 181.3
pull
Entries 51
Mean −203.4
Std Dev 227


pull1D
Entries 51
Mean −0.003724
Std Dev 0.3377


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6161 / 50
p0 130.1 ± 0.1282
170
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.52 / 50
p0 −14.97 ± 26.86
pull
Entries 51
Mean −91.5
Std Dev 112.6


pull1D
Entries 51
Mean −0.02074
Std Dev 0.934


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2780 / 50
p0 19.31 ± 0.019
26
24
22
20
18
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
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3953. 2
3953. 3
3953. 4
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3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
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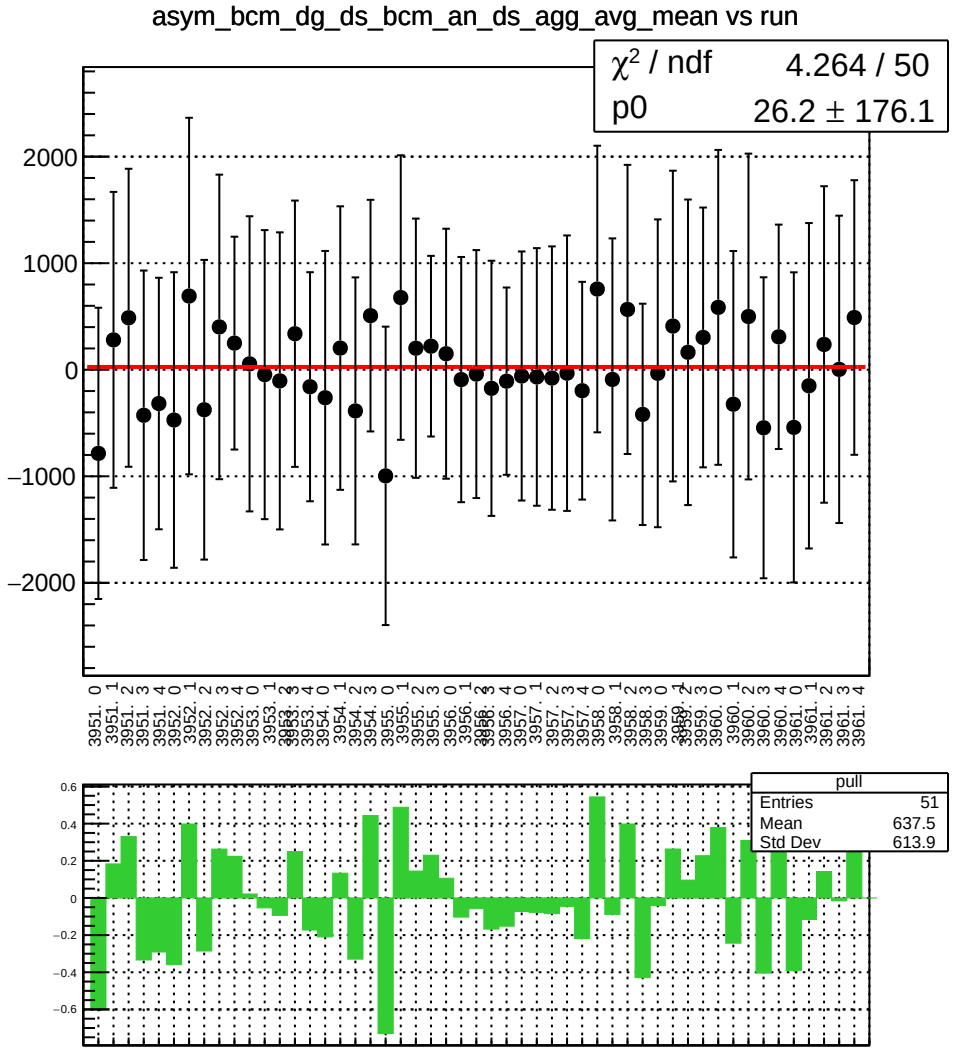
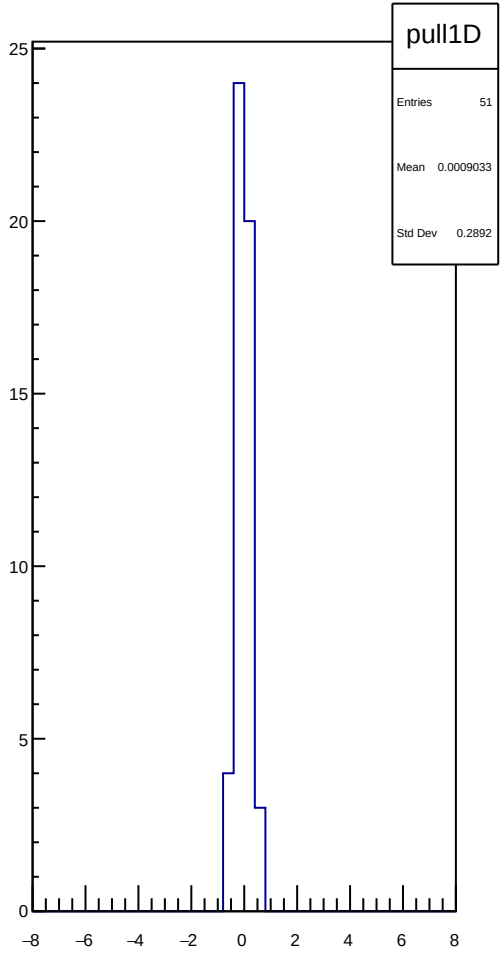
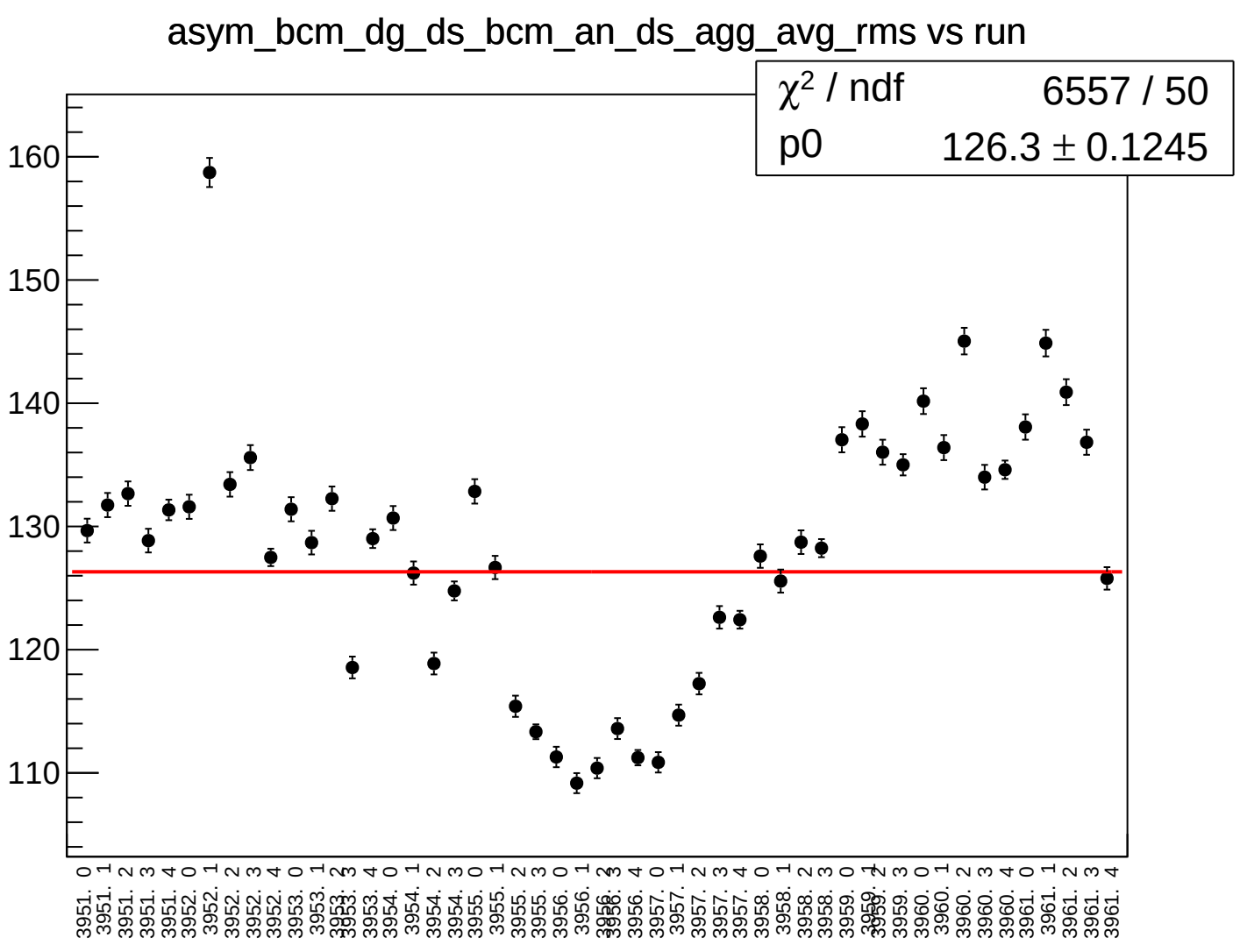
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.264 / 50
p0 26.2 ± 176.1
pull
Entries 51
Mean 637.5
Std Dev 613.9


pull1D
Entries 51
Mean 0.0009033
Std Dev 0.2892


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6557 / 50
p0 126.3 ± 0.1245
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
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3956. 4
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3957. 4
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3959. 0
3959. 1
3959. 2
3959. 3
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3960. 2
3960. 3
3960. 4
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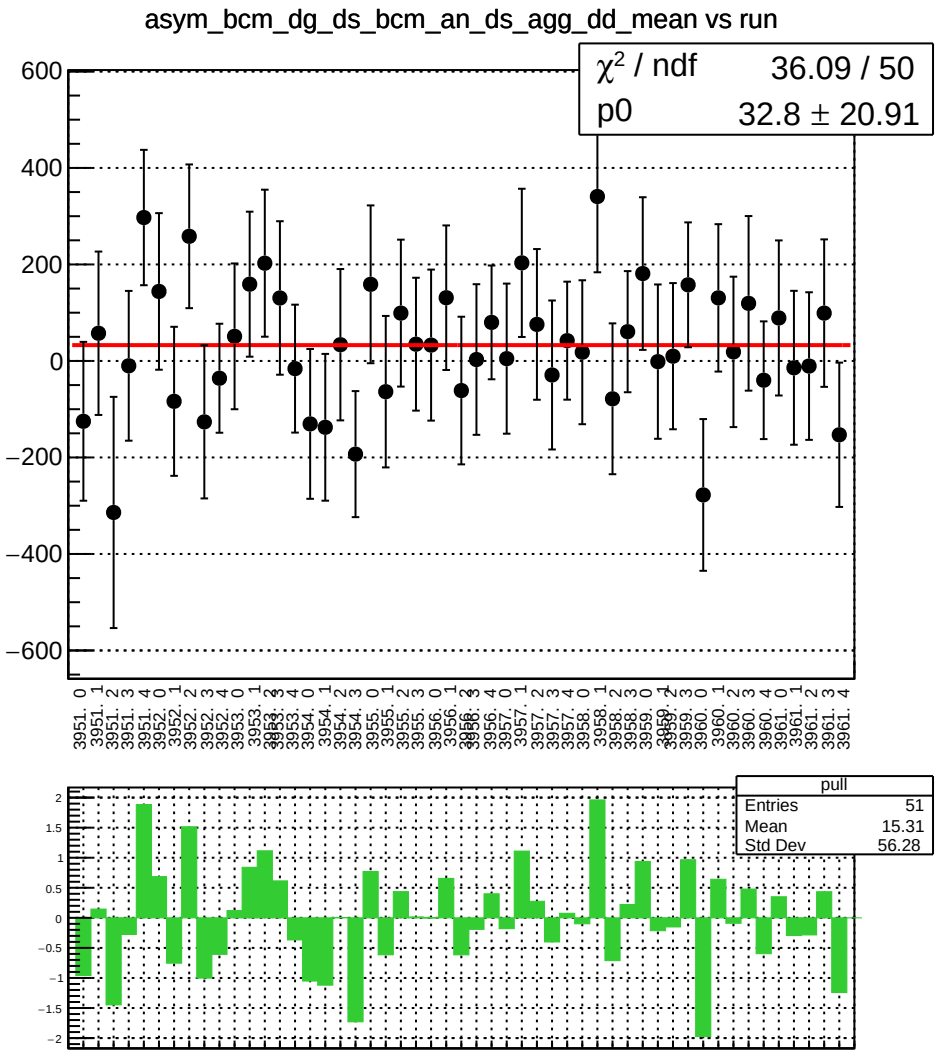
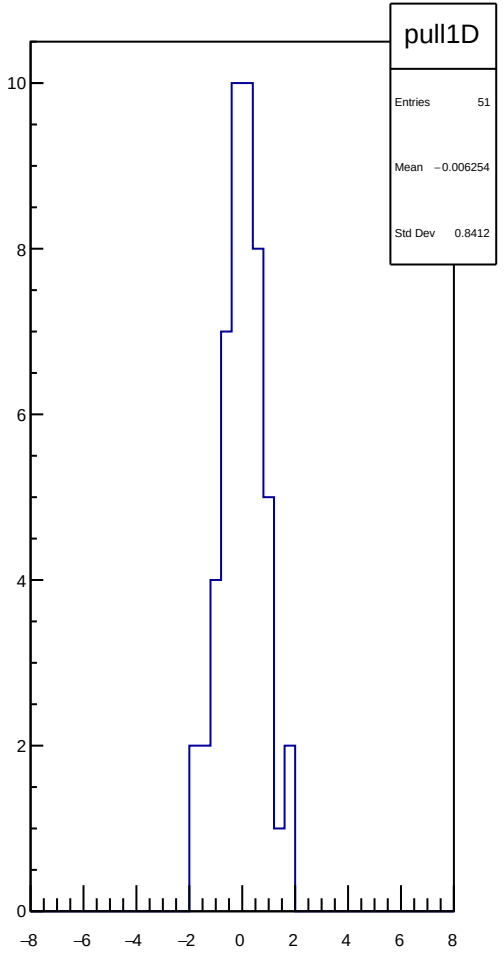
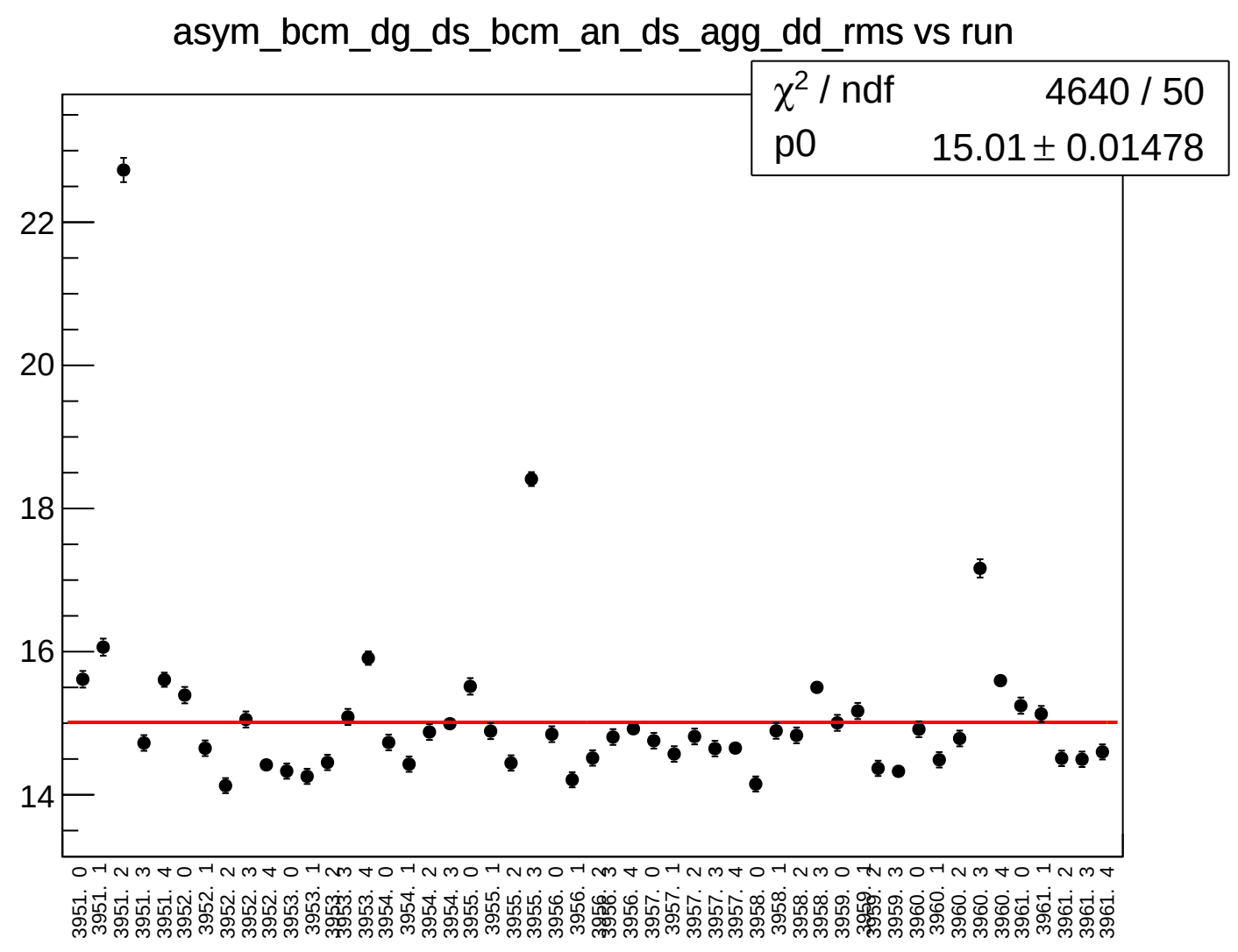
3961. 4


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 36.09 / 50
p0 32.8 ± 20.91
pull
Entries 51
Mean 15.31
Std Dev 56.28


pull1D
Entries 51
Mean −0.006254
Std Dev 0.8412


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4640 / 50
p0 15.01 ± 0.01478
22
20
18
16
14
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
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3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
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3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
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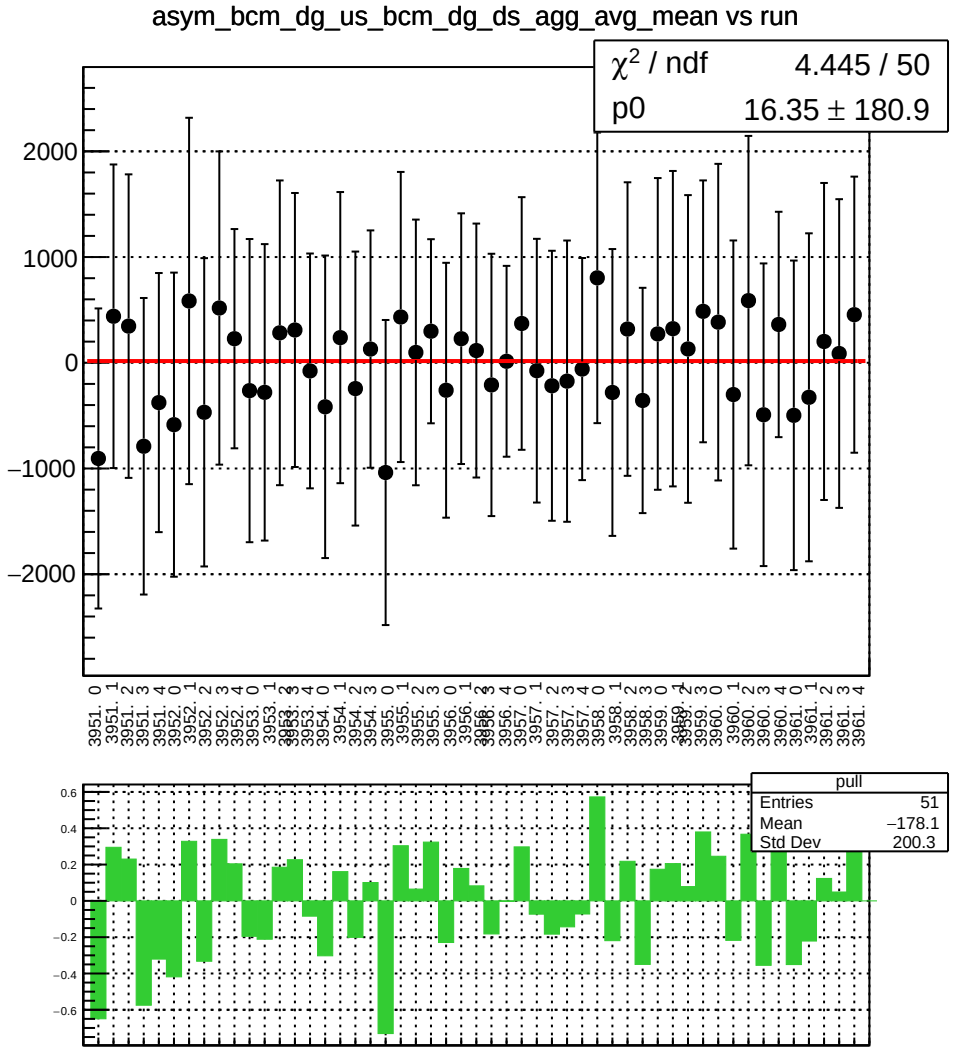
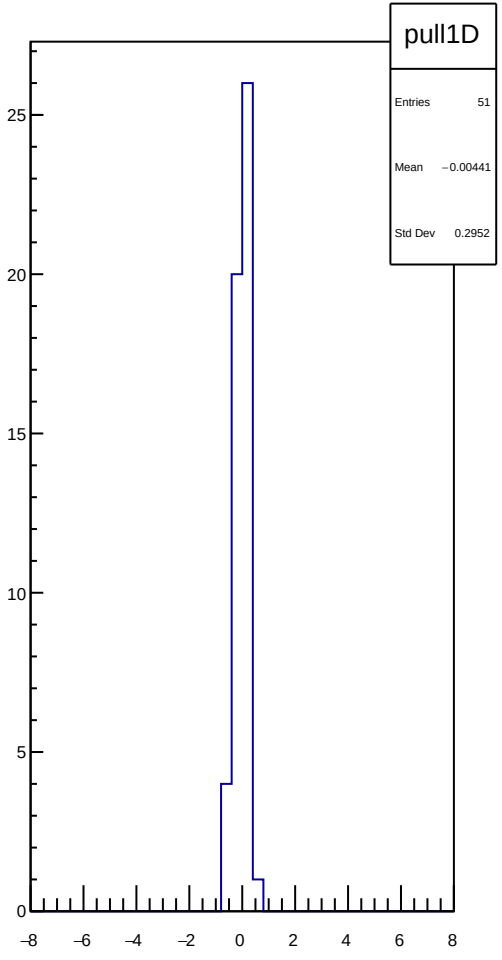
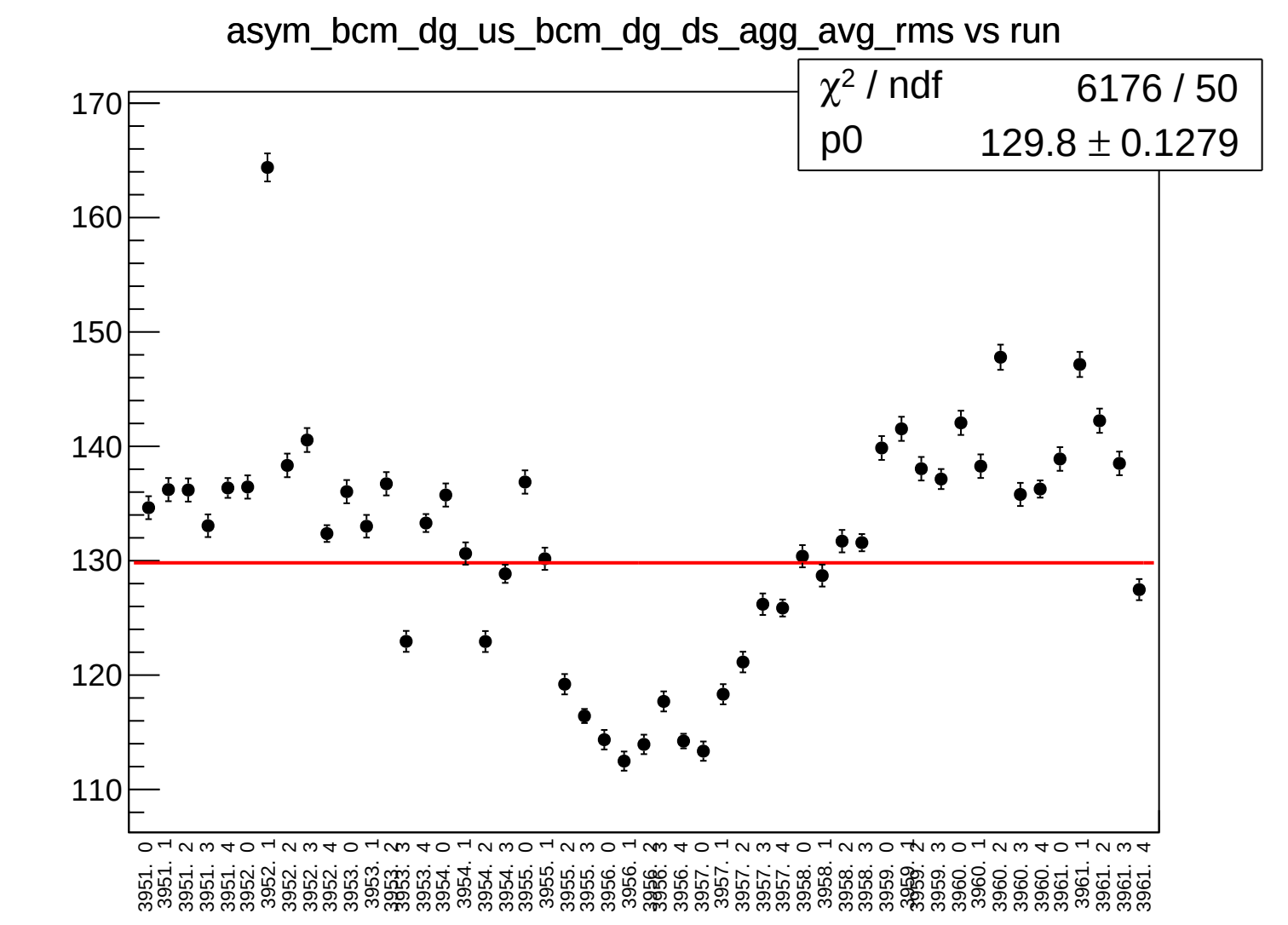
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.445 / 50
p0 16.35 ± 180.9
2000
1000
0
−1000
−2000
pull
Entries 51
Mean −178.1
Std Dev 200.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 51
Mean −0.00441
Std Dev 0.2952
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6176 / 50
p0 129.8 ± 0.1279
170
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
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3953. 2
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3954. 2
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3955. 1
3955. 2
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3956. 0
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3956. 2
3956. 3
3956. 4
3957. 0
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3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
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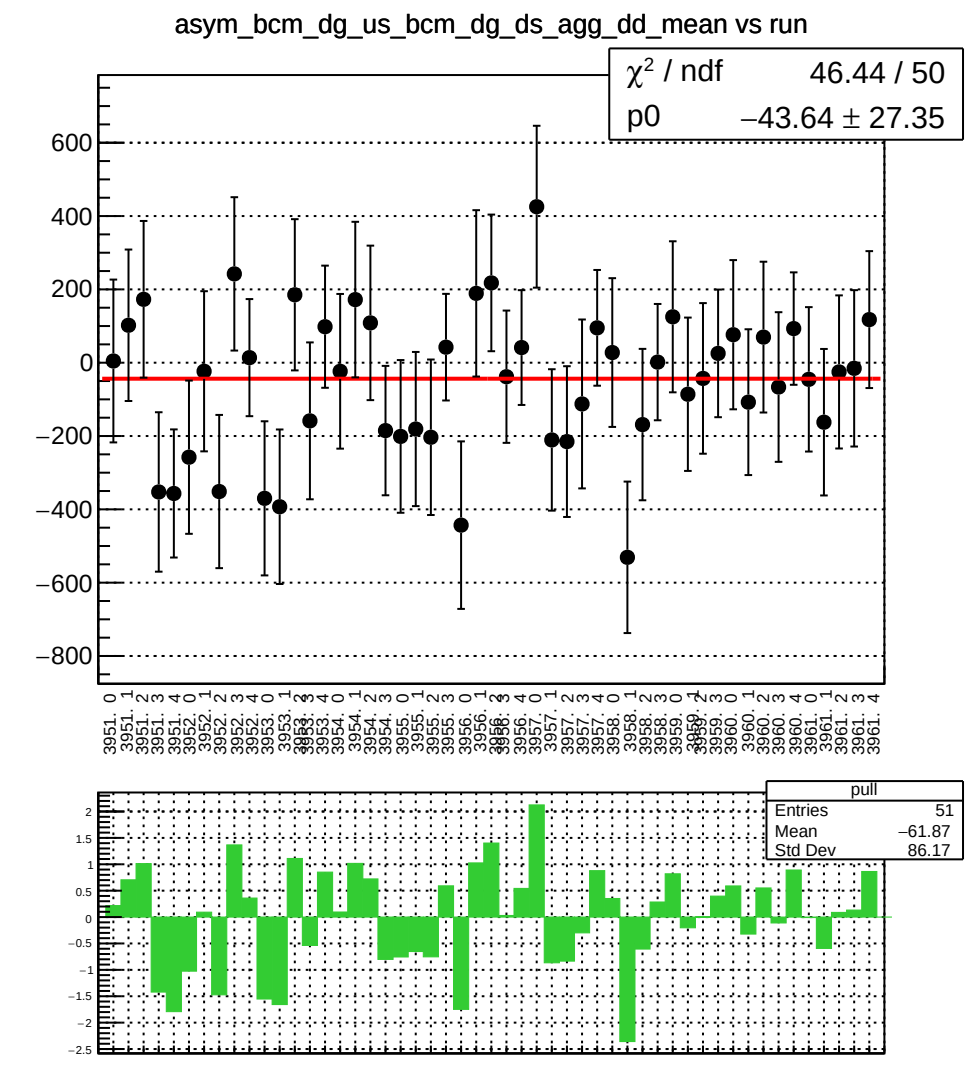
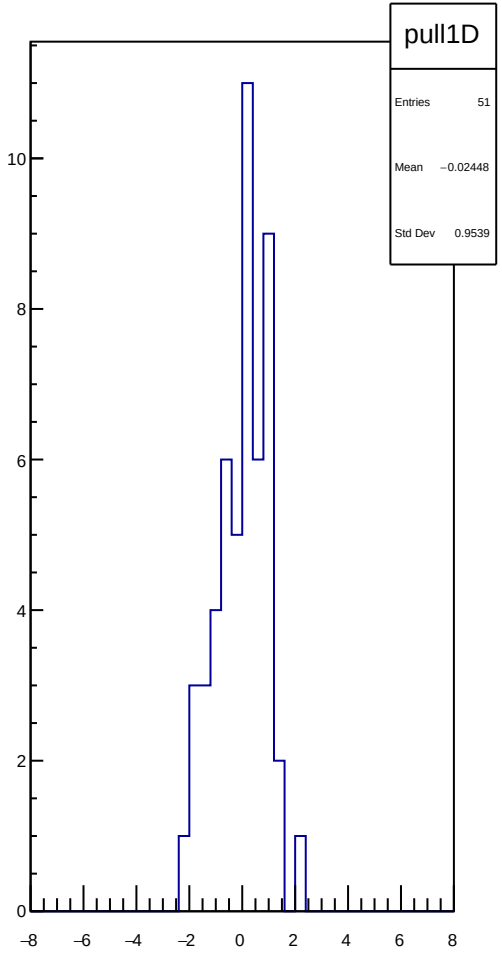
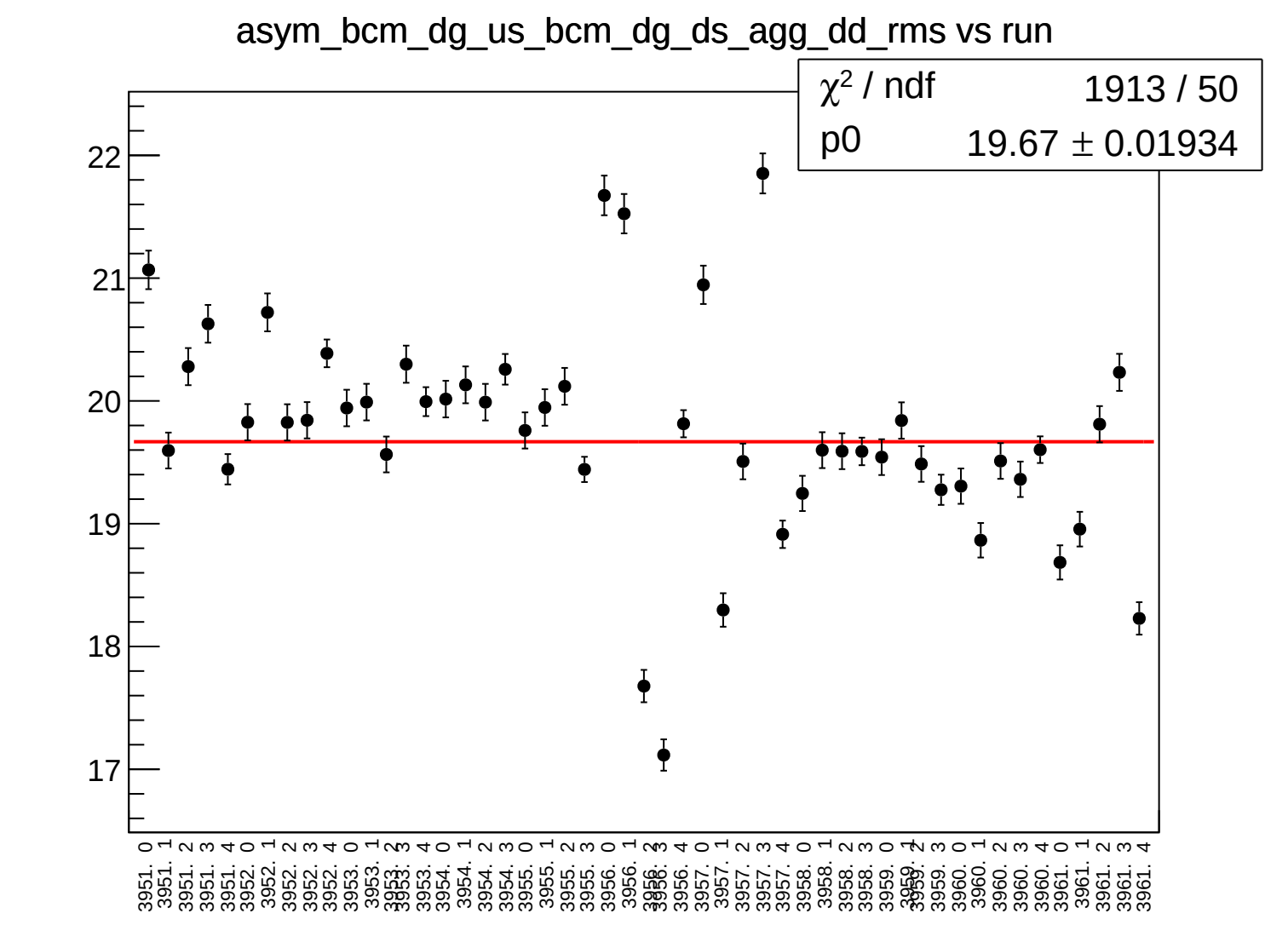
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 46.44 / 50
p0 −43.64 ± 27.35
pull
Entries 51
Mean −61.87
Std Dev 86.17


pull1D
Entries 51
Mean −0.02448
Std Dev 0.9539


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1913 / 50
p0 19.67 ± 0.01934
22
21
20
19
18
17
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
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3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
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3955. 2
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3956. 2
3956. 3
3956. 4
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3959. 2
3959. 3
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3960. 2
3960. 3
3960. 4
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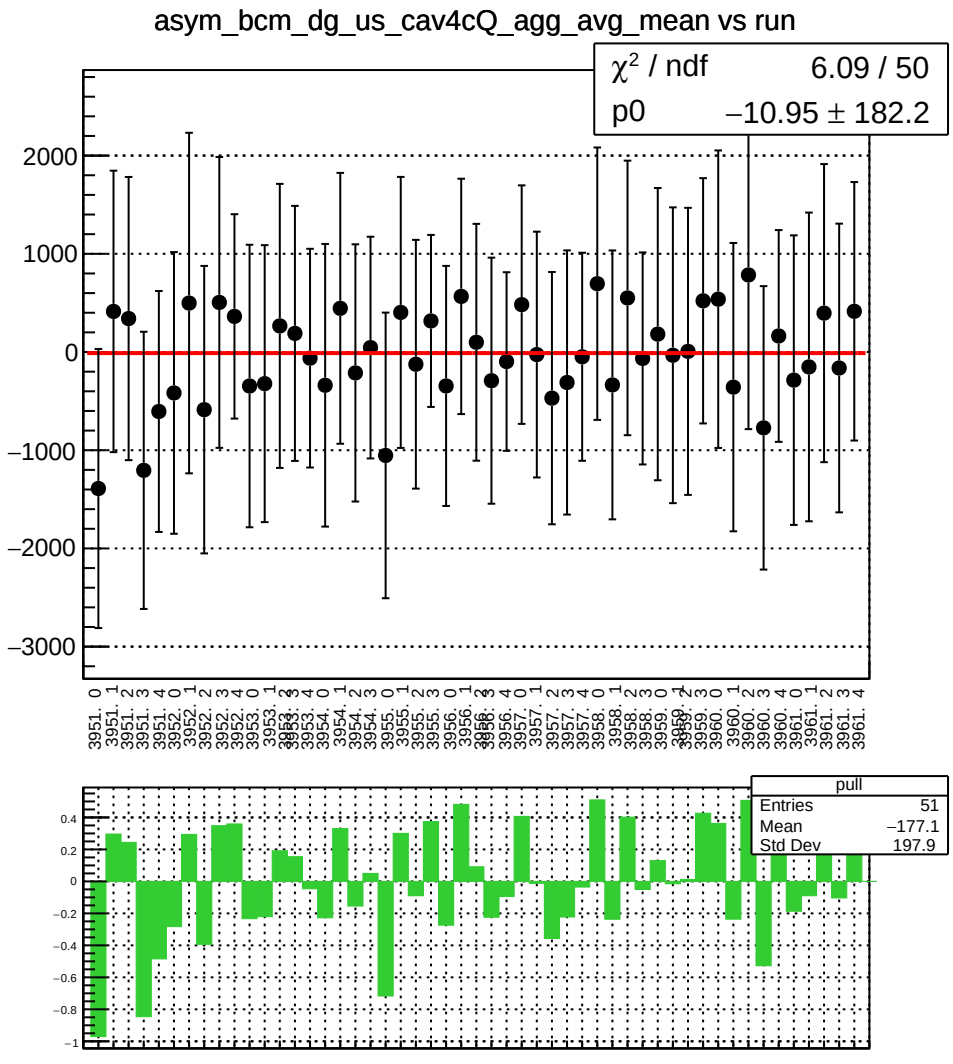
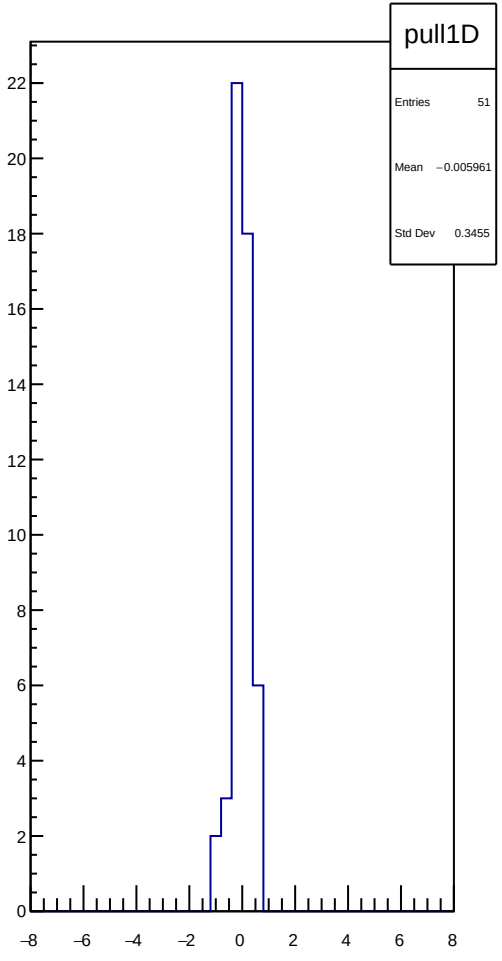
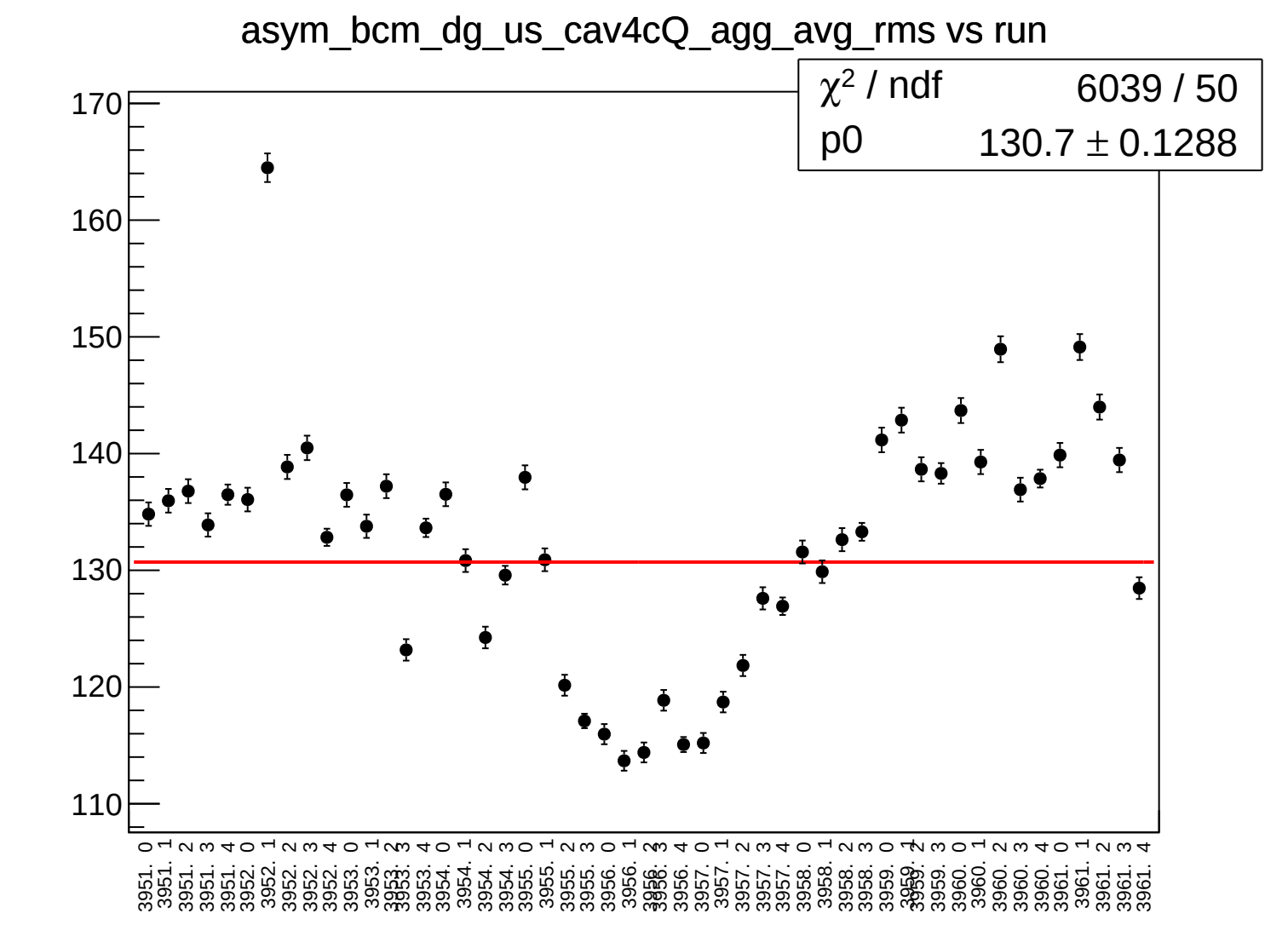
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_dg_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 6.09 / 50
p0 −10.95 ± 182.2
pull
Entries 51
Mean −177.1
Std Dev 197.9


pull1D
Entries 51
Mean −0.005961
Std Dev 0.3455


asym_bcm_dg_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 6039 / 50
p0 130.7 ± 0.1288
170
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
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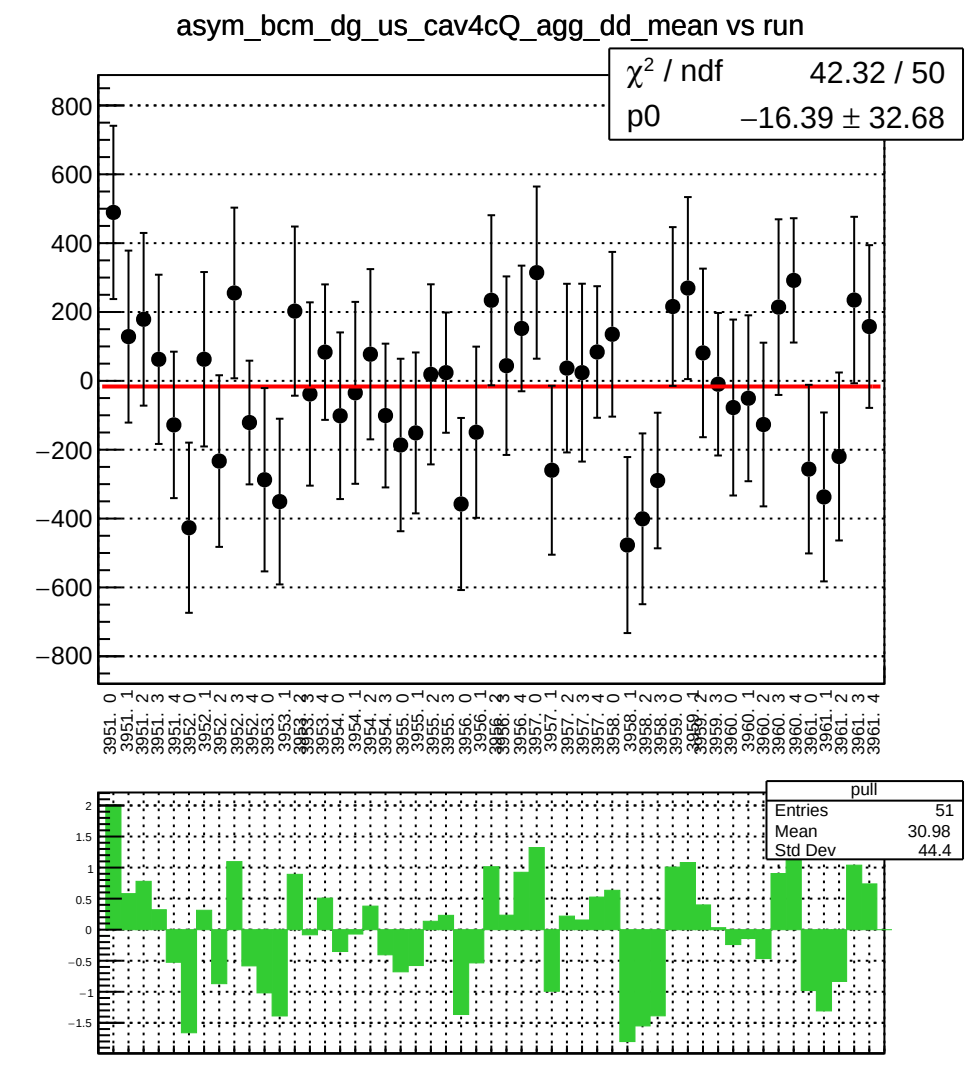
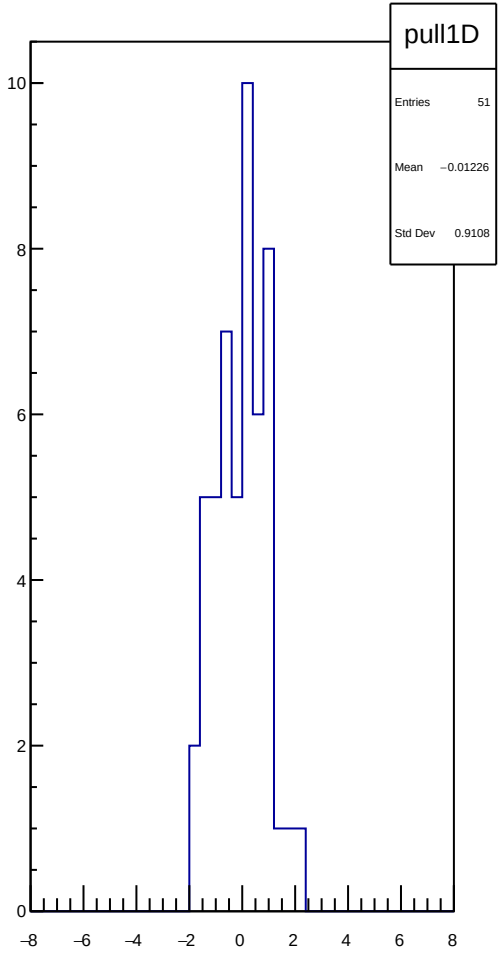
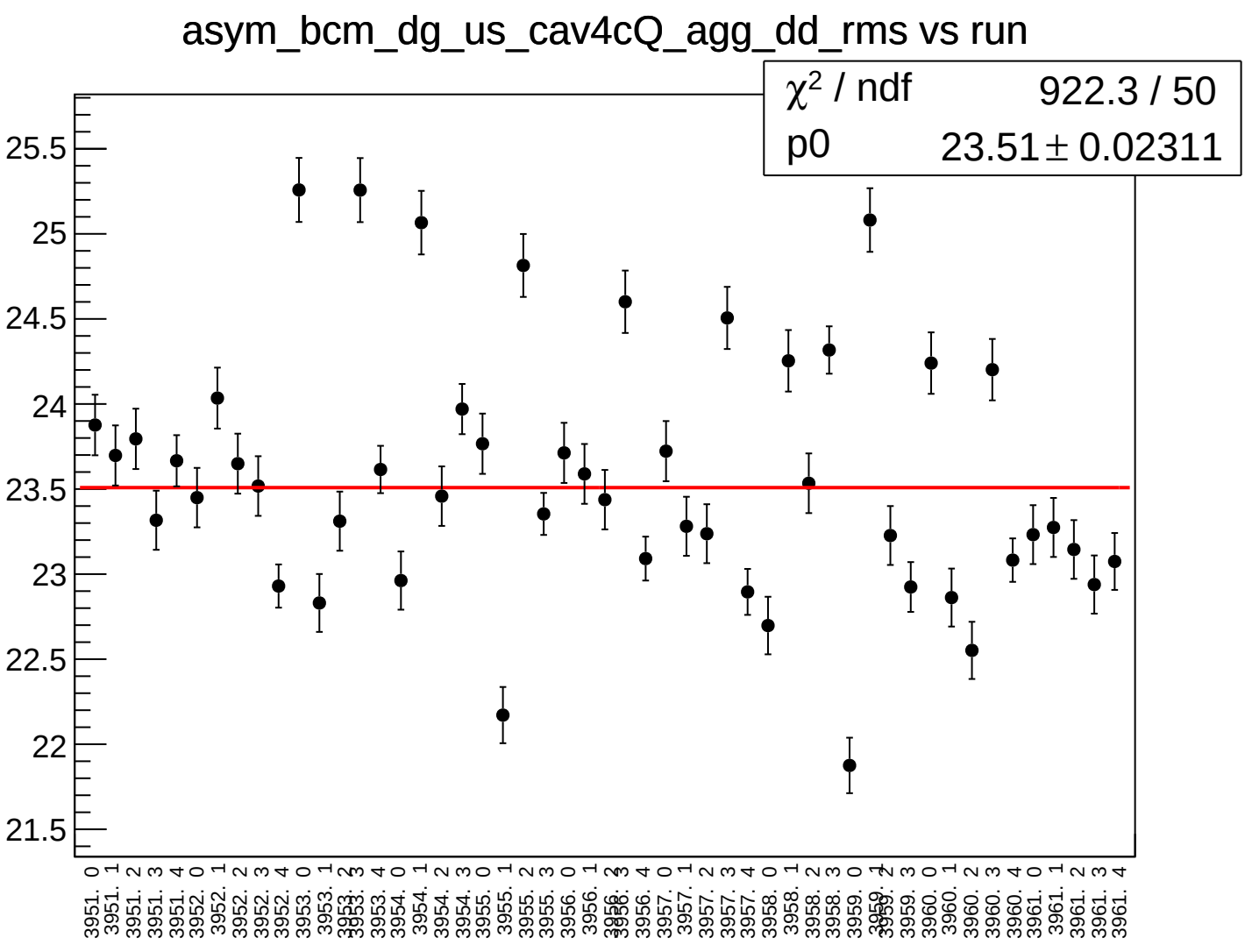
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_dg_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 42.32 / 50
p0 −16.39 ± 32.68
pull
Entries 51
Mean 30.98
Std Dev 44.4


pull1D
Entries 51
Mean −0.01226
Std Dev 0.9108


asym_bcm_dg_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 922.3 / 50
p0 23.51 ± 0.02311
25.5
25
24.5
24
23.5
23
22.5
22
21.5
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
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3956. 4
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3957. 2
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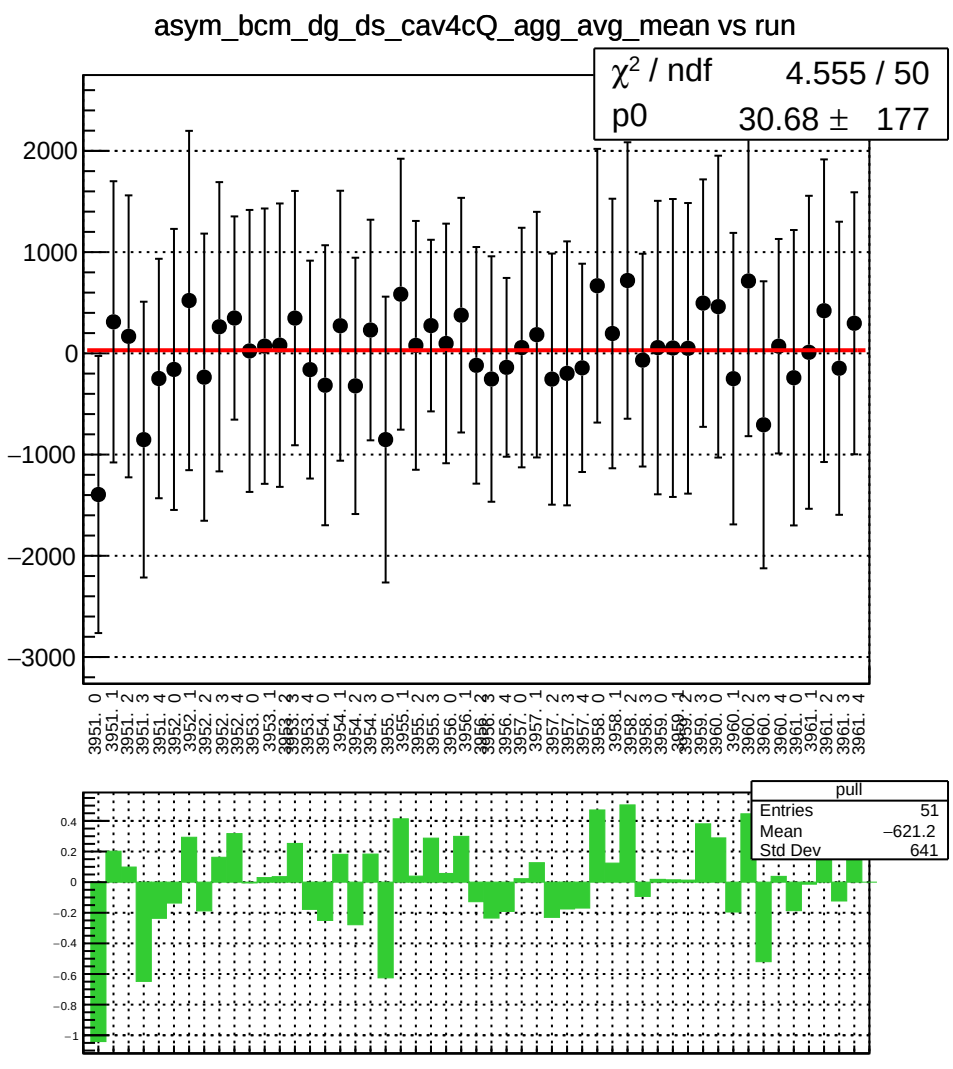
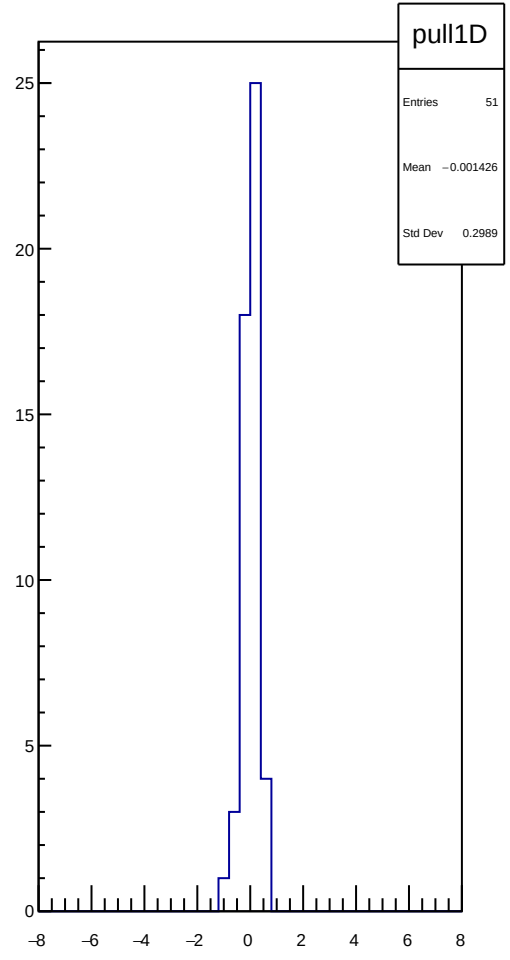
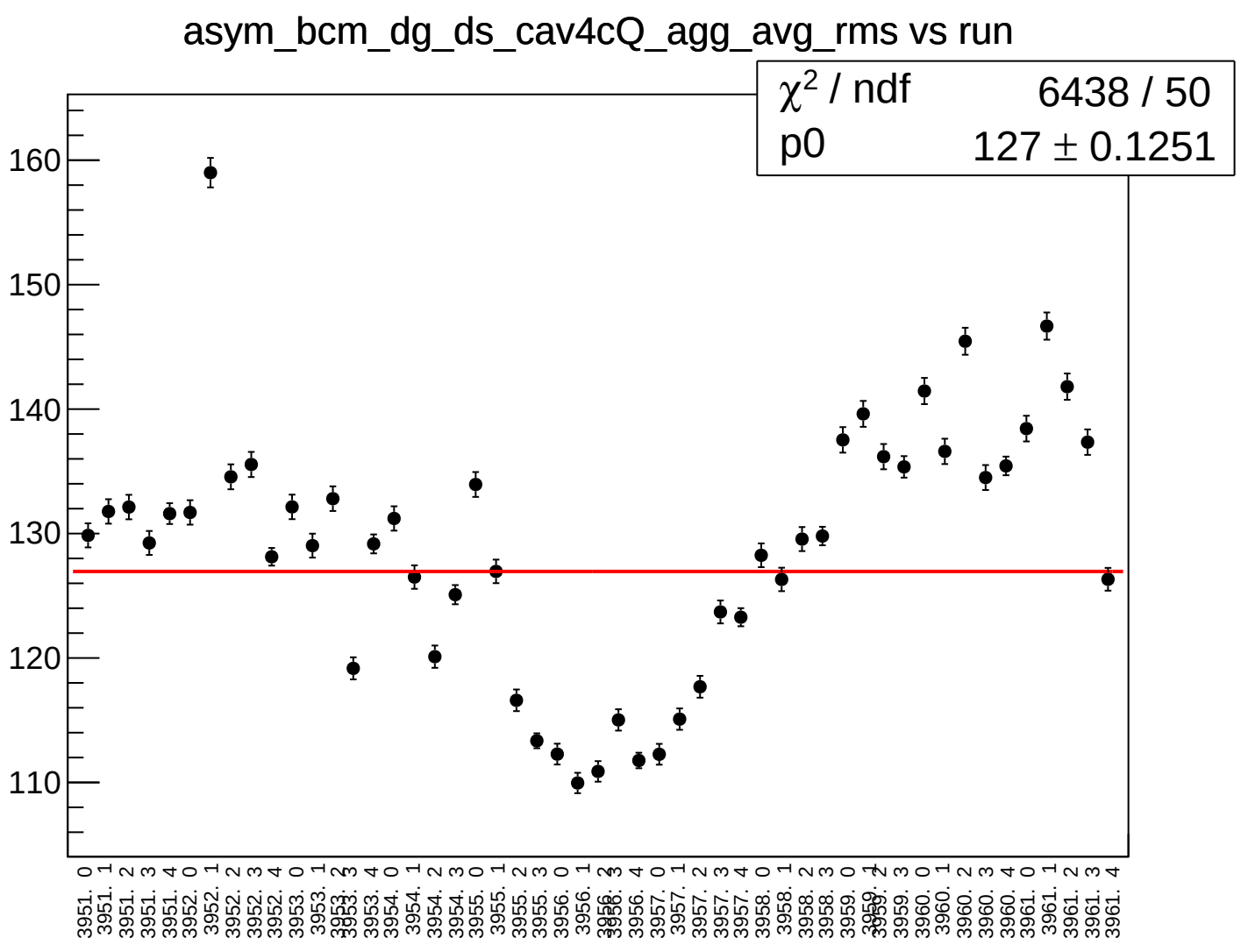
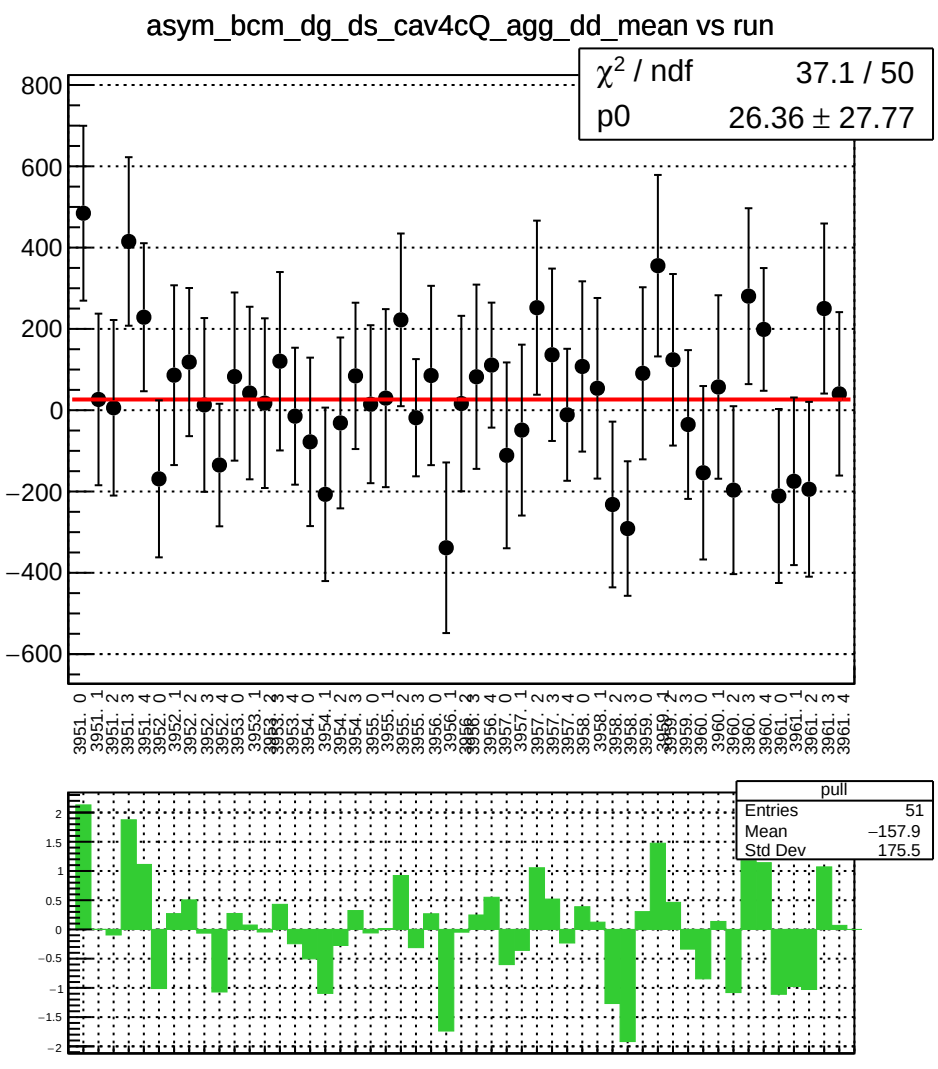
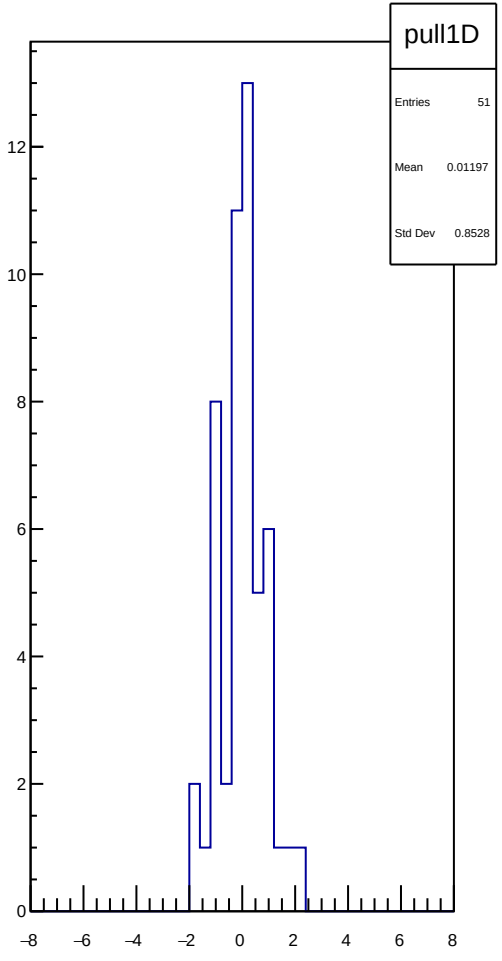
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

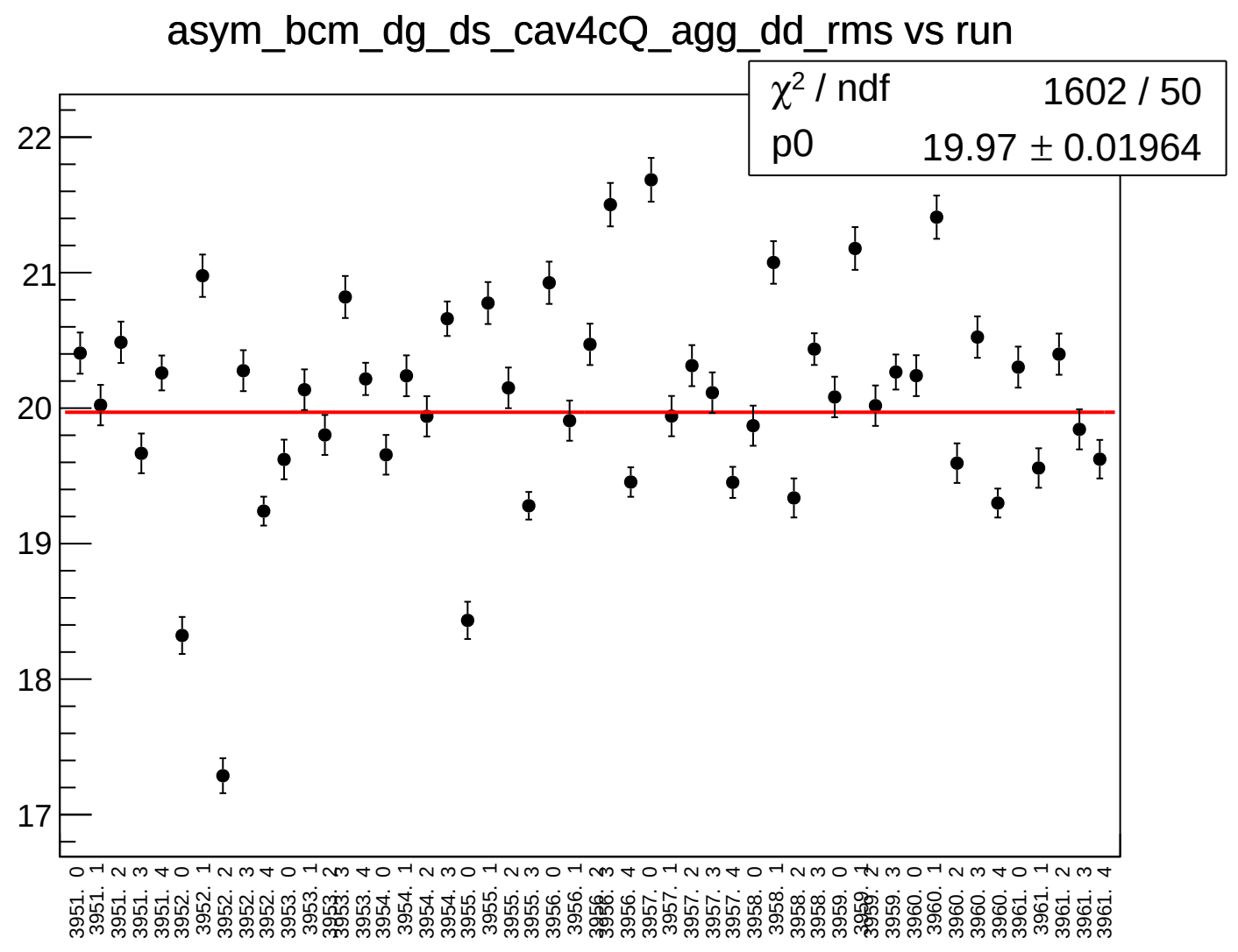

asym_bcm_dg_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 4.555 / 50
p0 30.68 ± 177
pull
Entries 51
Mean −621.2
Std Dev 641

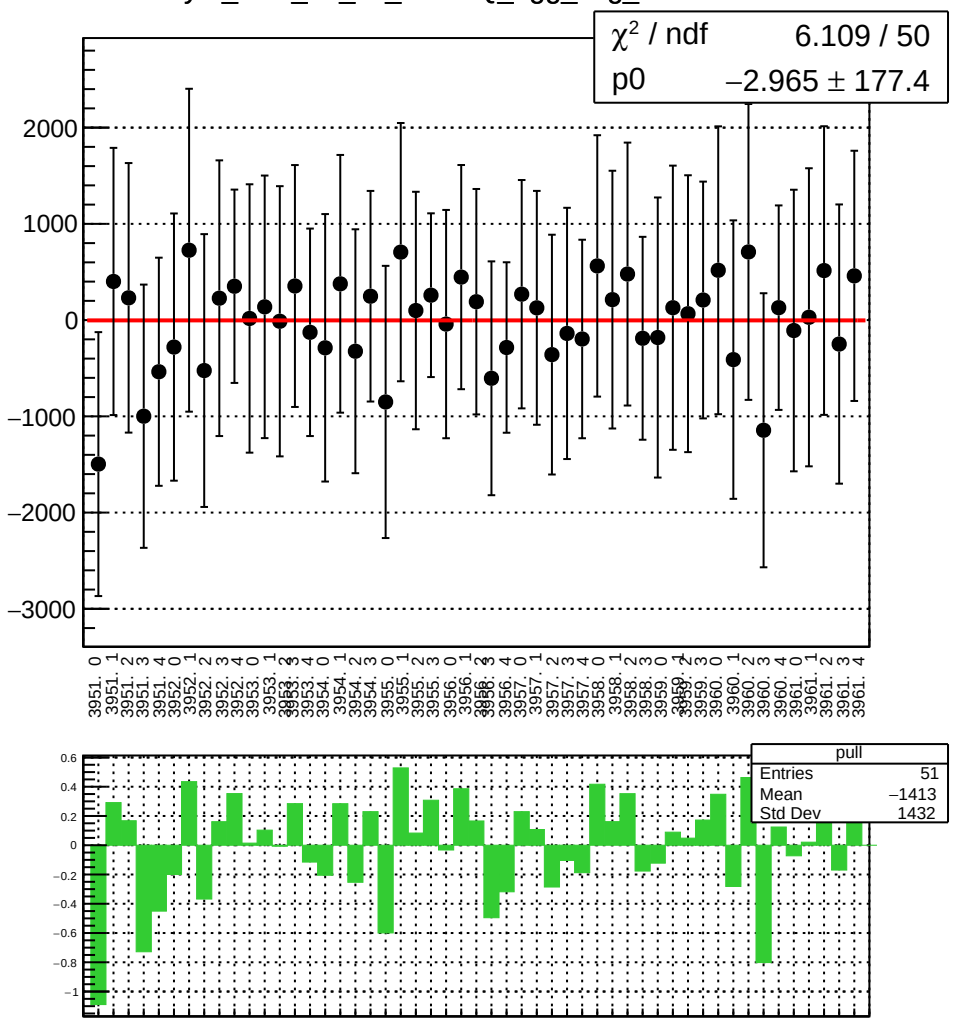

pull1D
Entries 51
Mean −0.001426
Std Dev 0.2989

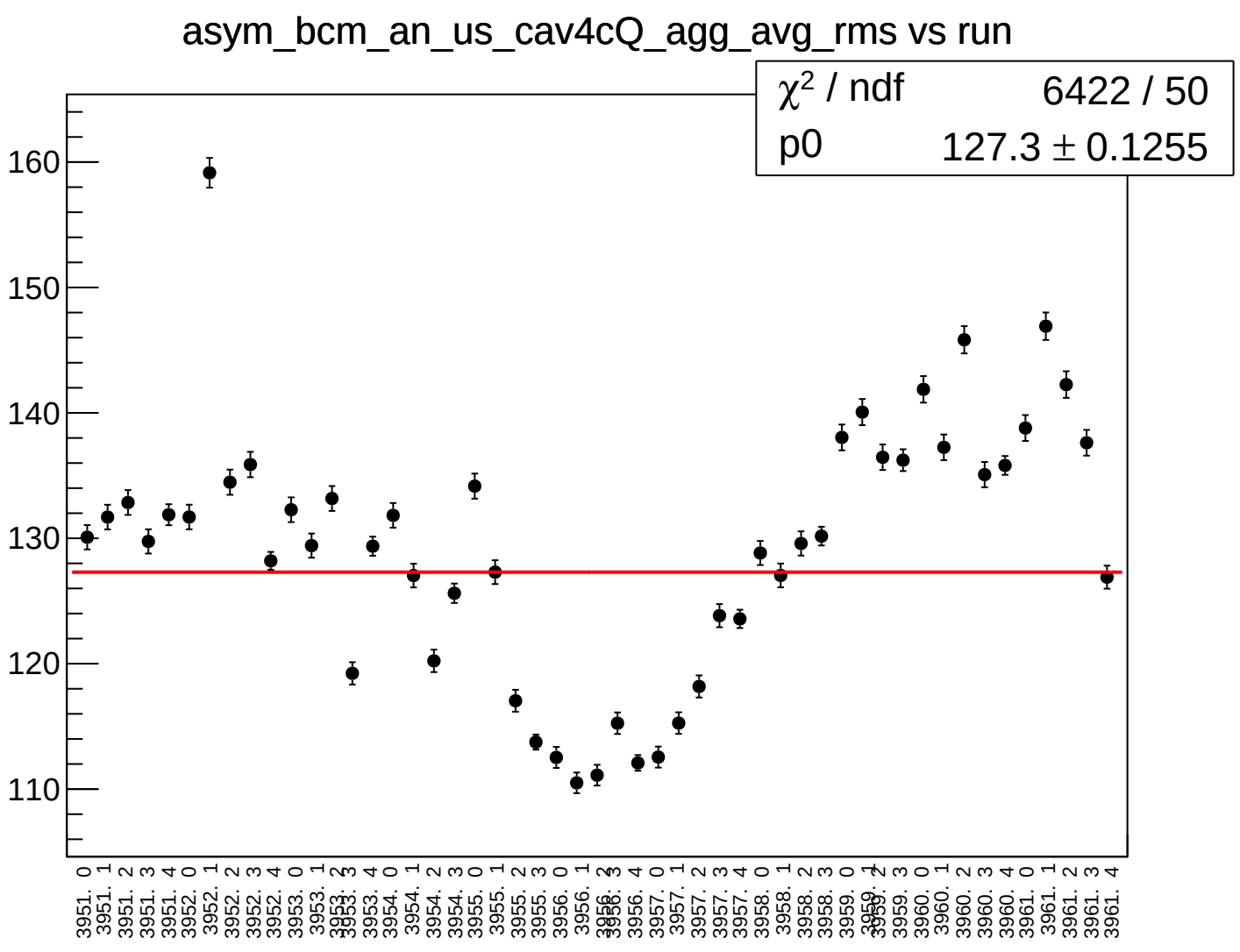

asym_bcm_dg_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 6438 / 50
p0 127 ± 0.1251
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_dg_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 37.1 / 50
p0 26.36 ± 27.77
pull
Entries 51
Mean −157.9
Std Dev 175.5


pull1D
Entries 51
Mean 0.01197
Std Dev 0.8528


asym_bcm_dg_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 1602 / 50
p0 19.97 ± 0.01964
22
21
20
19
18
17
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_bcm_an_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 6.109 / 50
p0 −2.965 ± 177.4
pull
Entries 51
Mean −1413
Std Dev 1432
pull1D
Entries 51
Mean −0.0006192
Std Dev 0.3461


asym_bcm_an_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 6422 / 50
p0 127.3 ± 0.1255
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
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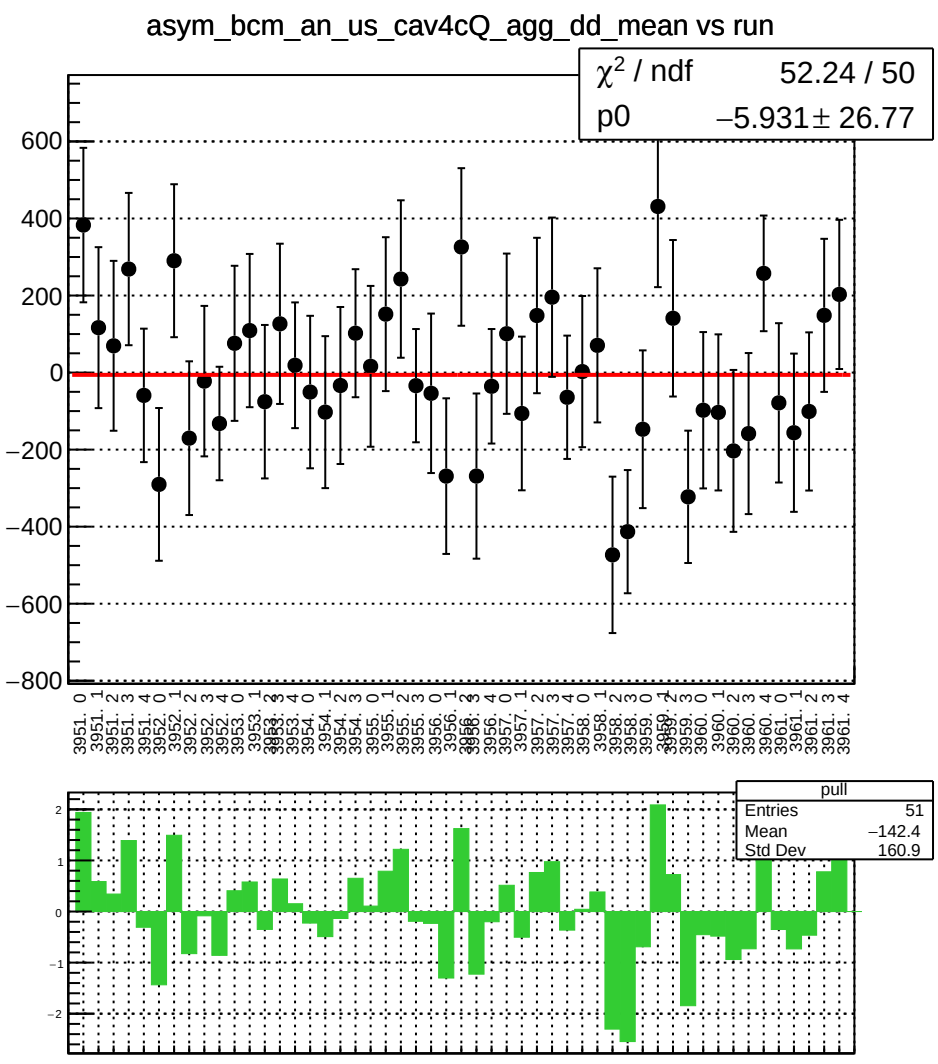
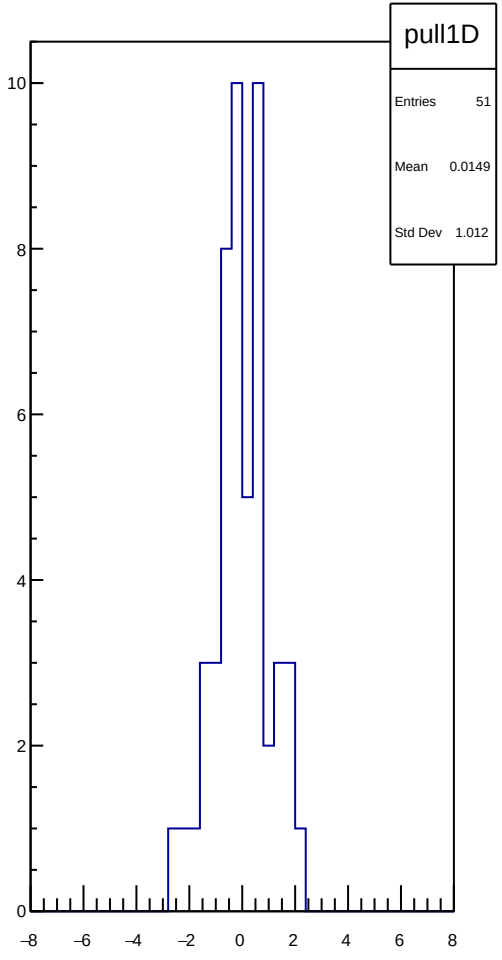
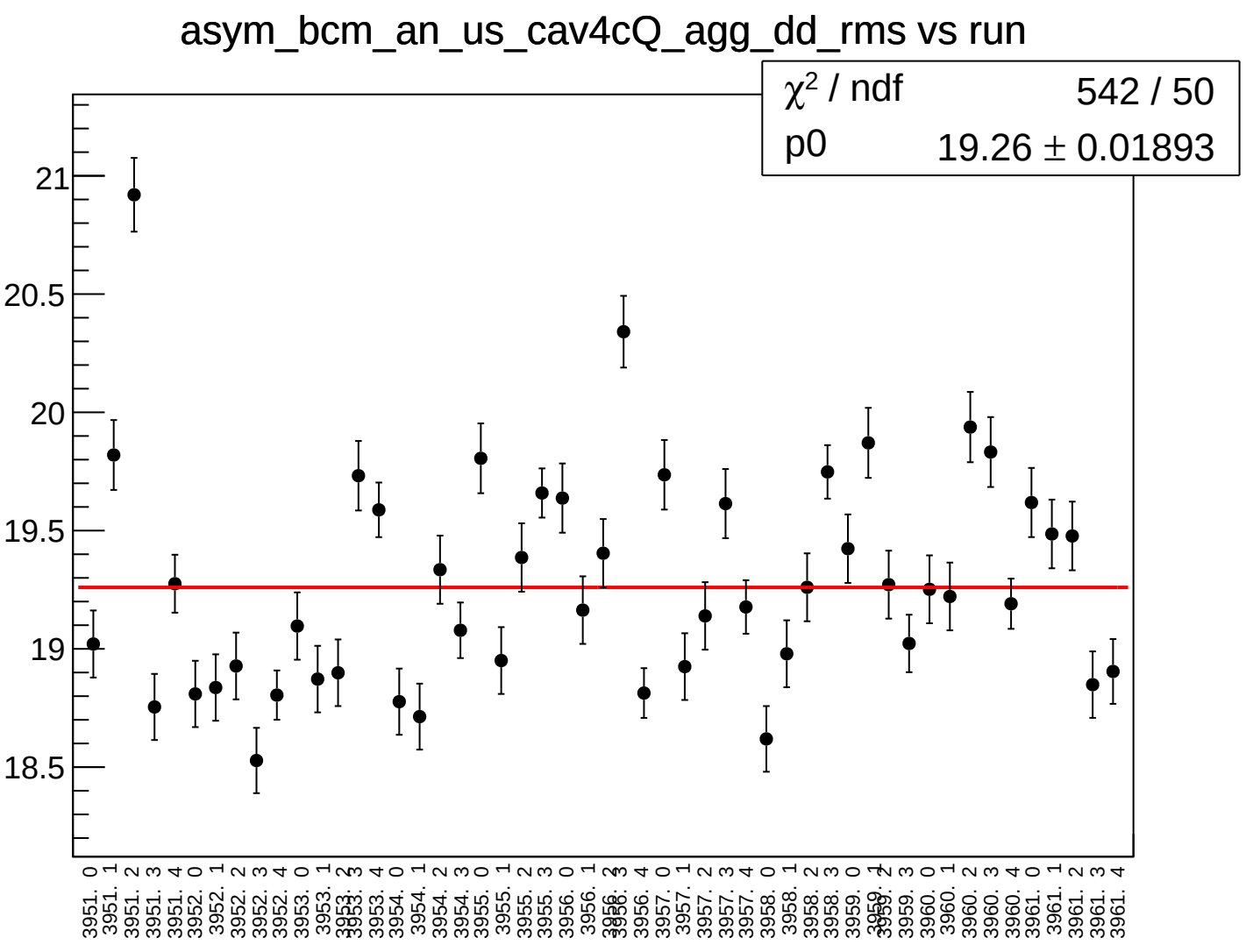
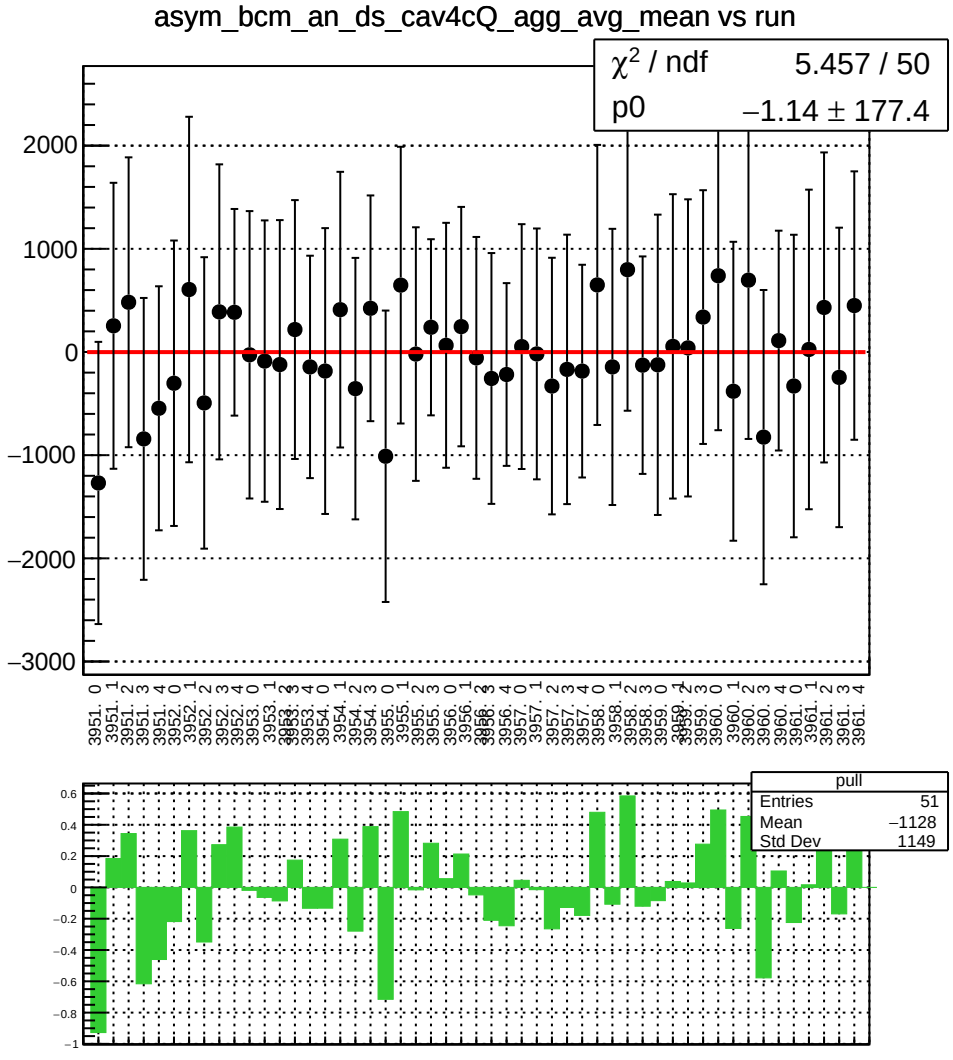
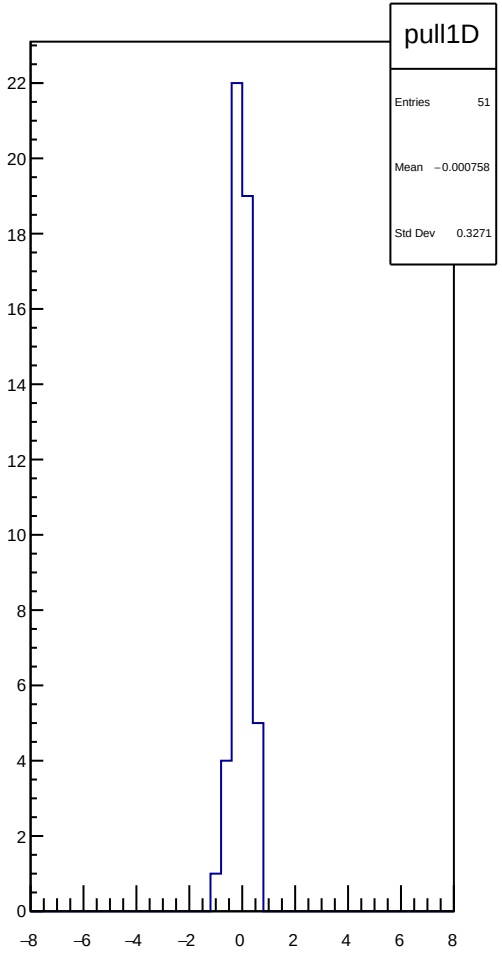
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

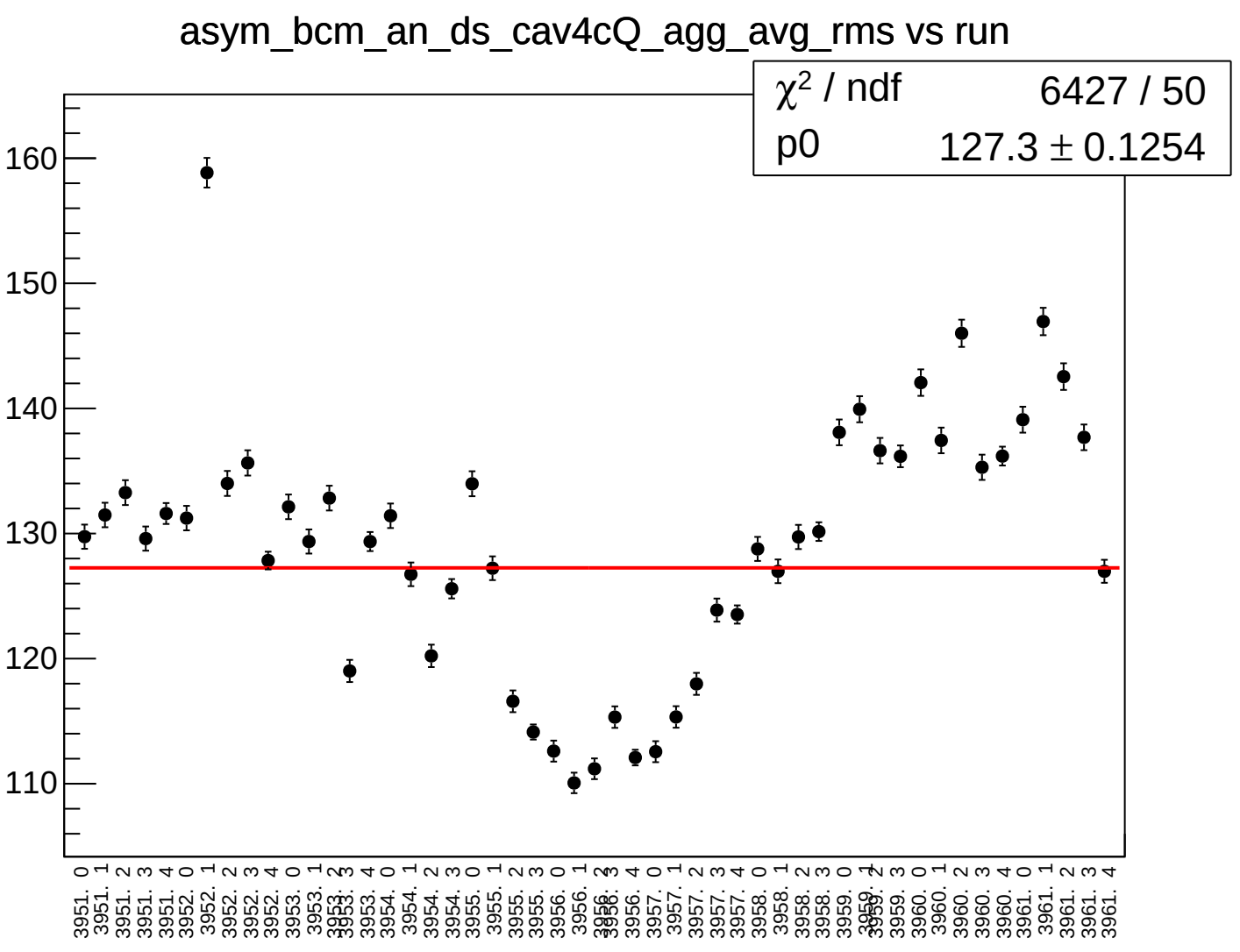

asym_bcm_an_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 52.24 / 50
p0 −5.931 ± 26.77
pull
Entries 51
Mean −142.4
Std Dev 160.9

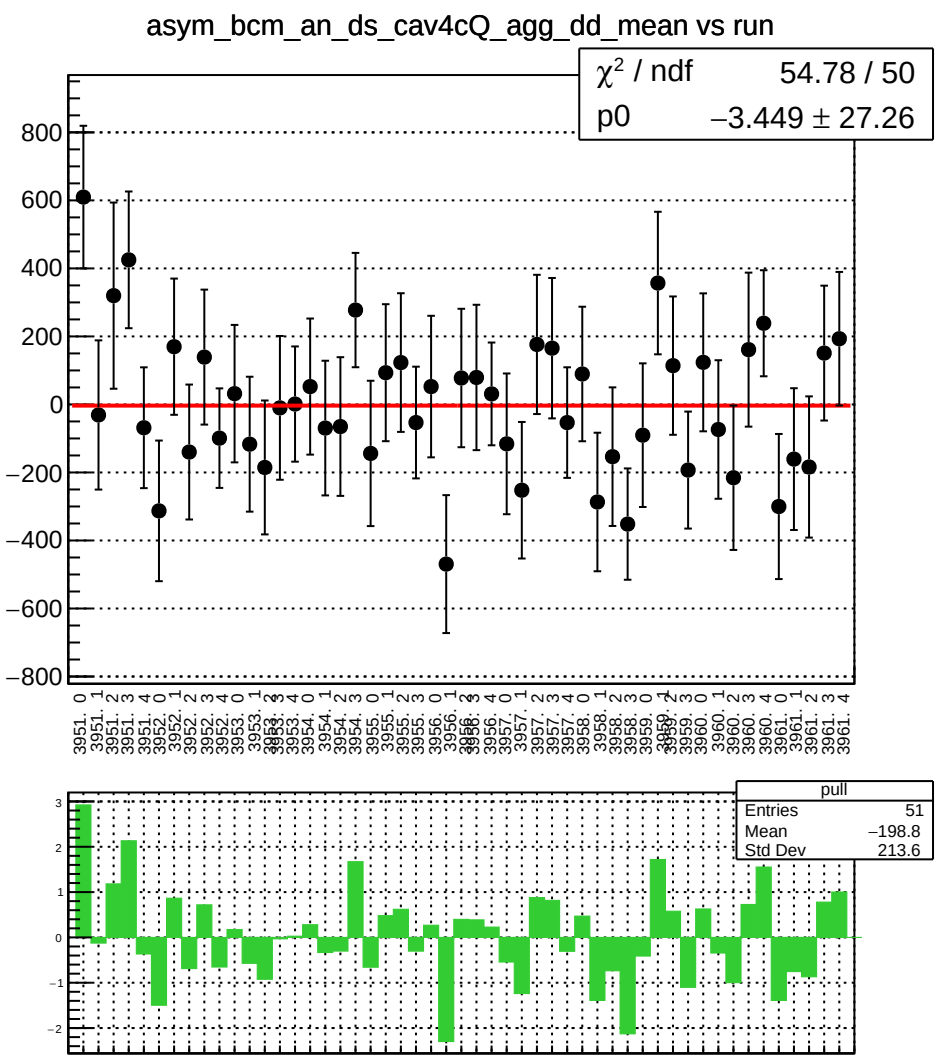

pull1D
Entries 51
Mean 0.0149
Std Dev 1.012

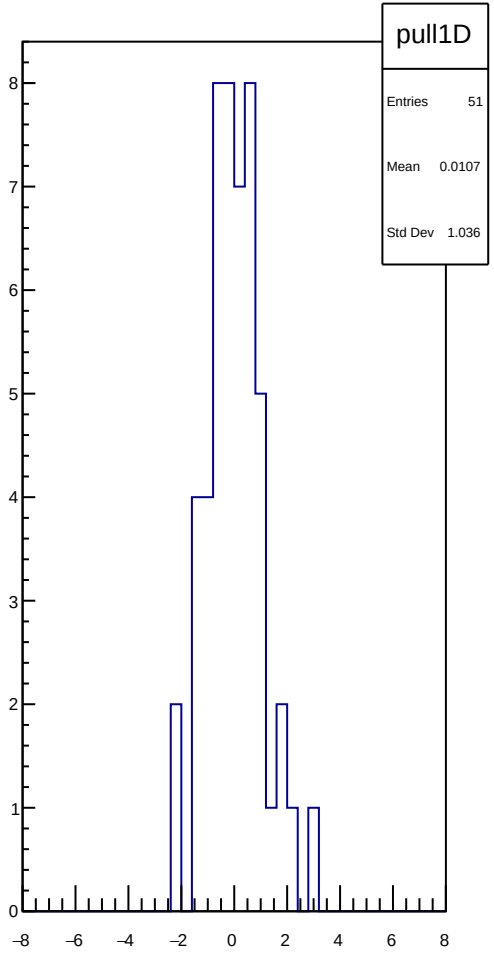

asym_bcm_an_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 542 / 50
p0 19.26 ± 0.01893
21
20.5
20
19.5
19
18.5
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

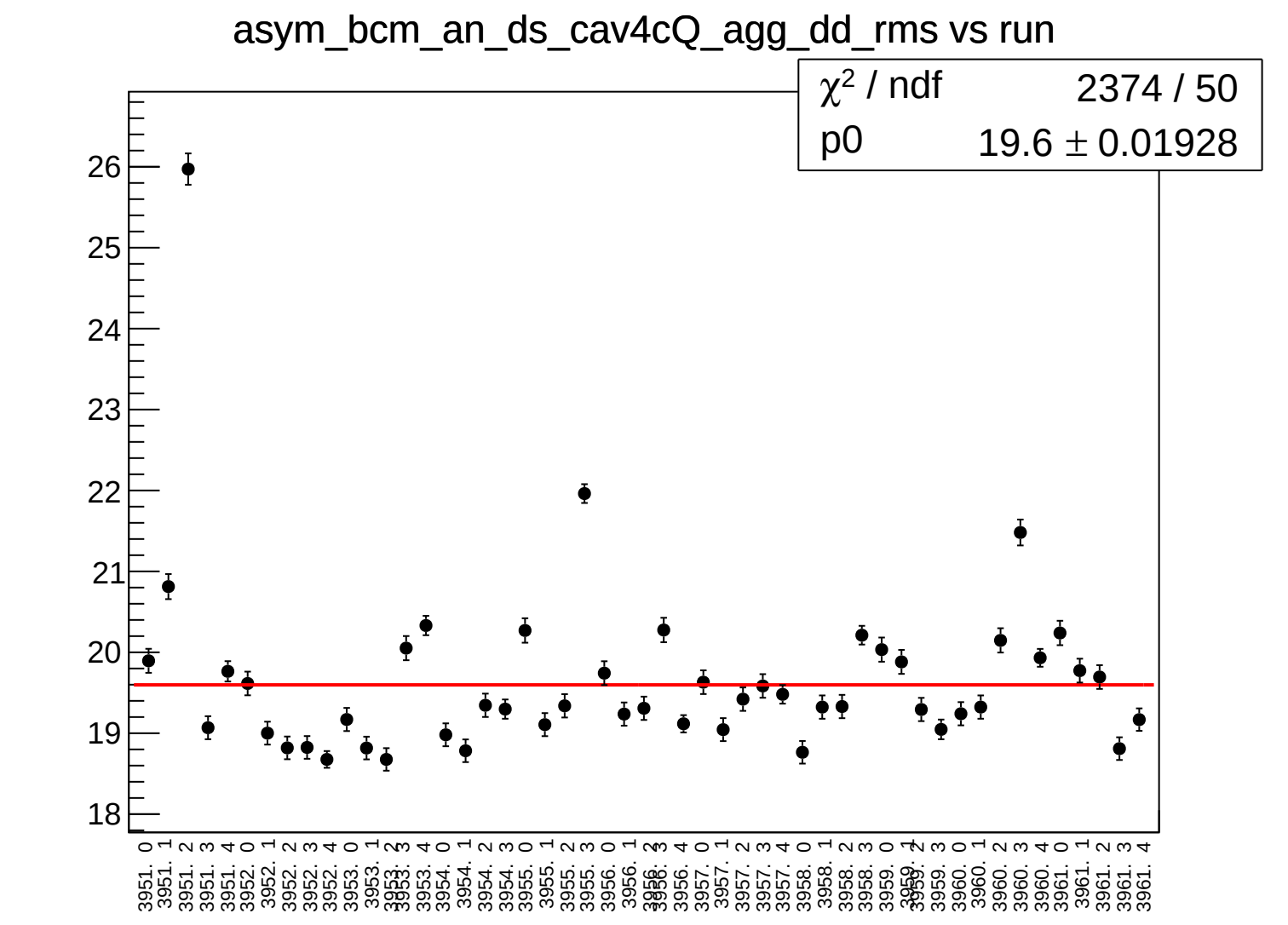

asym_bcm_an_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 5.457 / 50
p0 −1.14 ± 177.4
pull
Entries 51
Mean −1128
Std Dev 1149

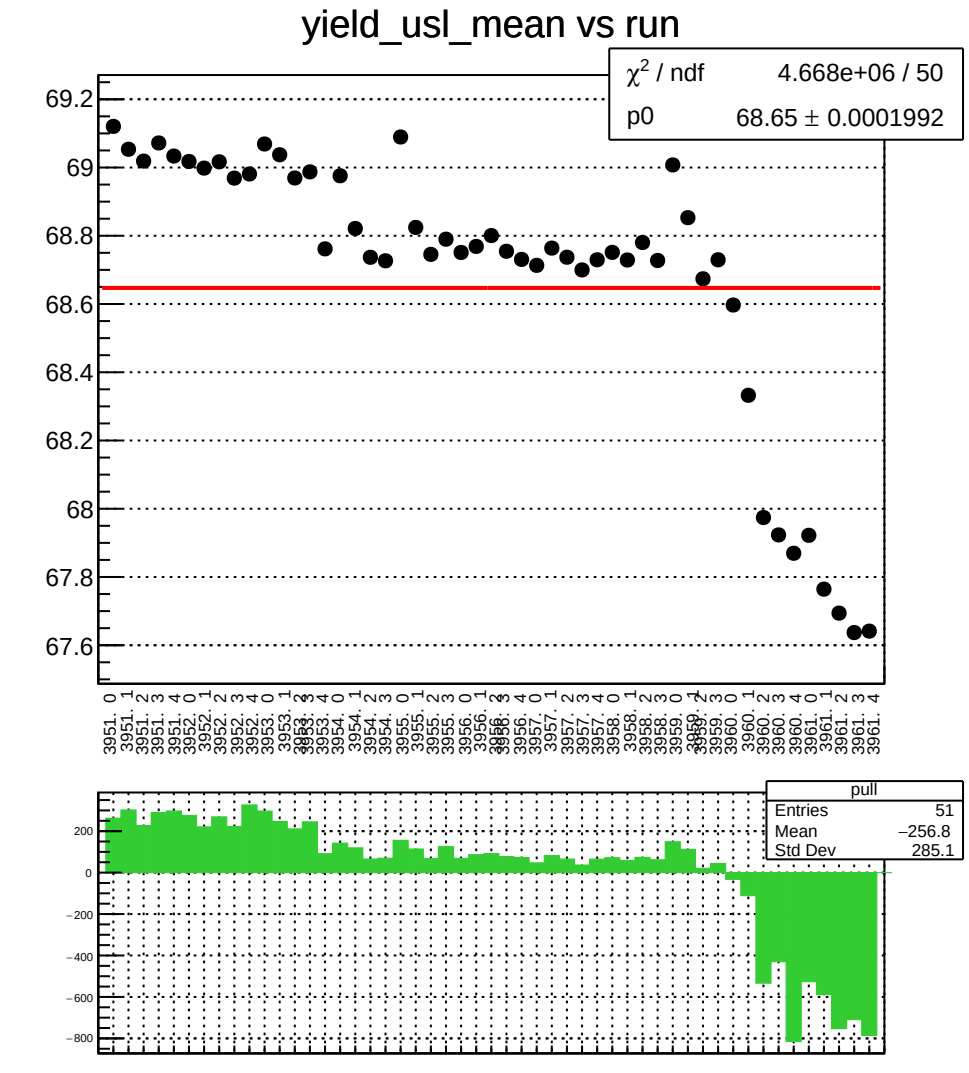

pull1D
Entries 51
Mean −0.000758
Std Dev 0.3271

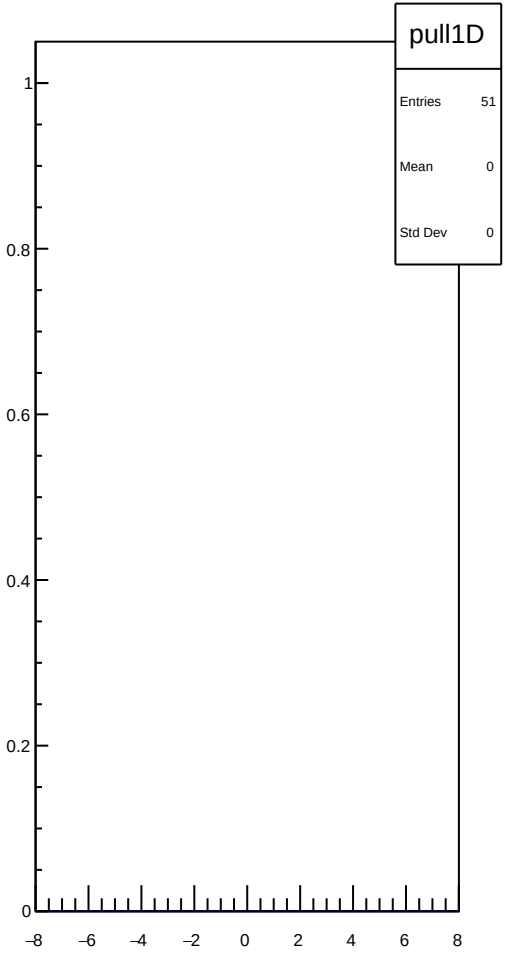

asym_bcm_an_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 6427 / 50
p0 127.3 ± 0.1254
160
150
140
130
120
110
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

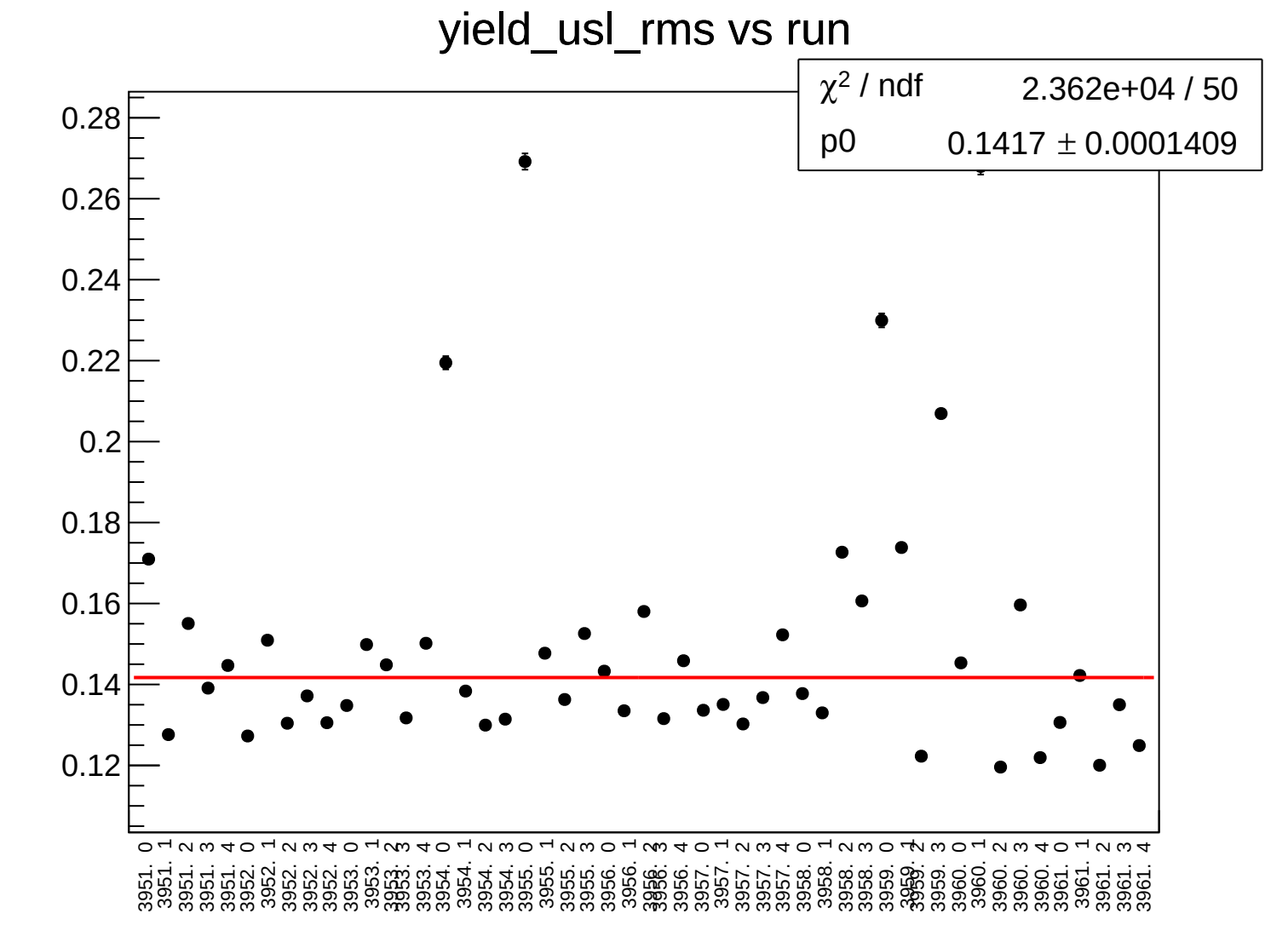

asym_bcm_an_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 54.78 / 50
p0 −3.449 ± 27.26
pull
Entries 51
Mean −198.8
Std Dev 213.6


pull1D
Entries 51
Mean 0.0107
Std Dev 1.036


asym_bcm_an_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 2374 / 50
p0 19.6 ± 0.01928
26
25
24
23
22
21
20
19
18
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


yield_usl_mean vs run
χ² / ndf 4.668e+06 / 50
p0 68.65 ± 0.0001992
69.2
69
68.8
68.6
68.4
68.2
68
67.8
67.6
pull
Entries 51
Mean −256.8
Std Dev 285.1
200
0
−200
−400
−600
−800


pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usl_rms vs run
χ² / ndf 2.362e+04 / 50
p0 0.1417 ± 0.0001409
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
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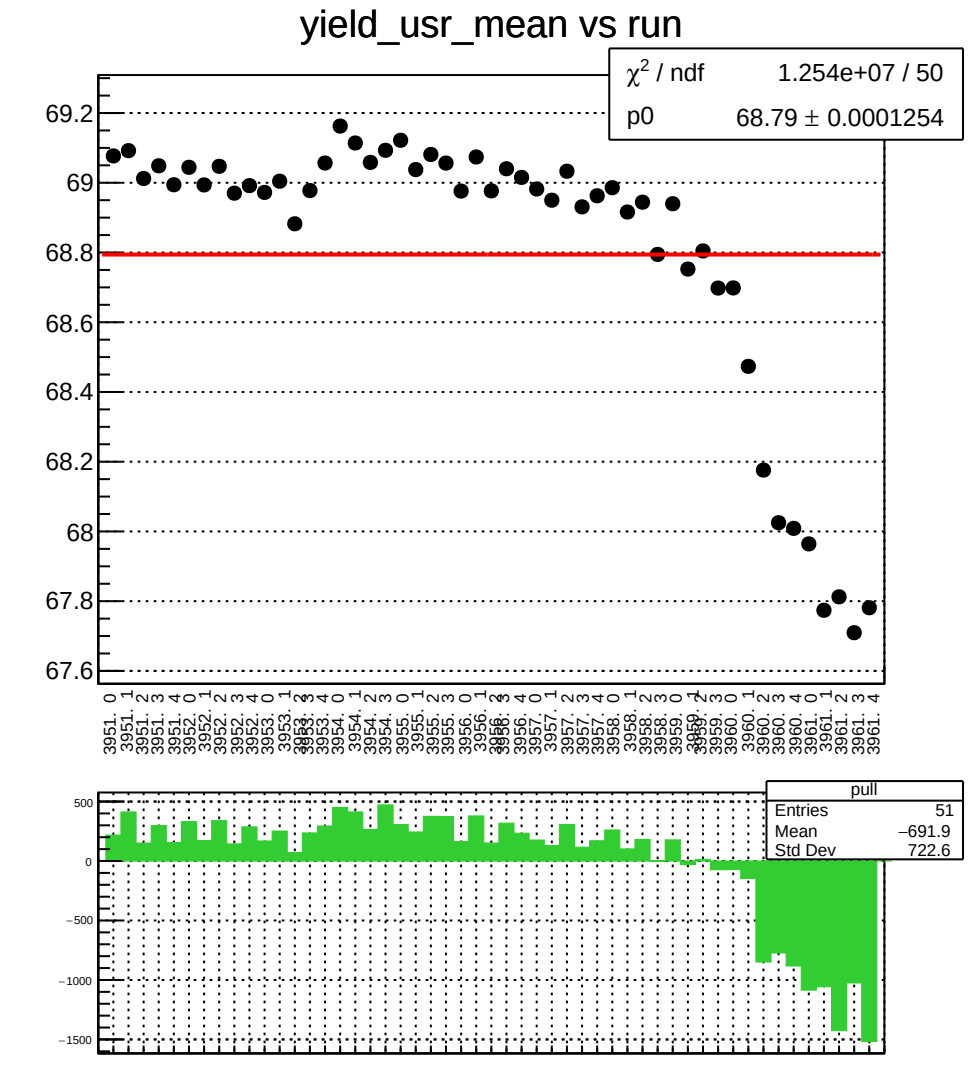
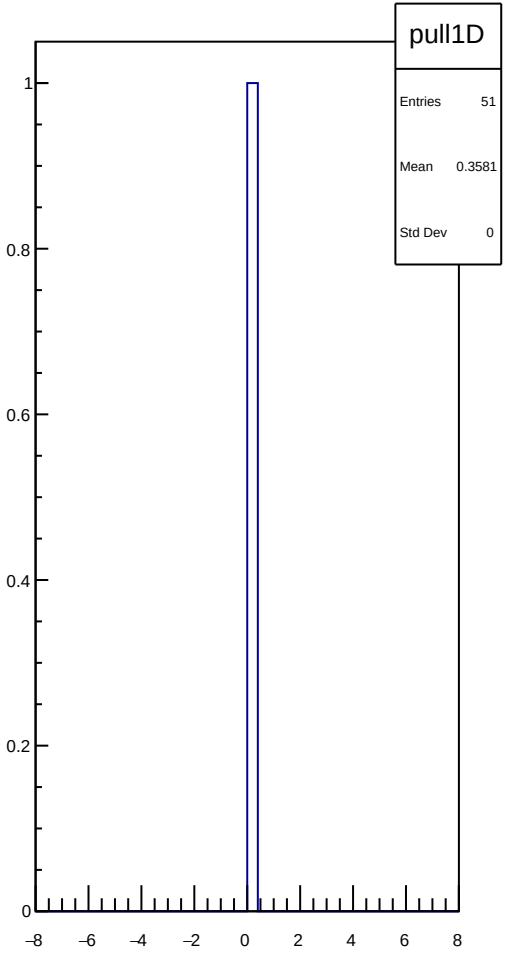
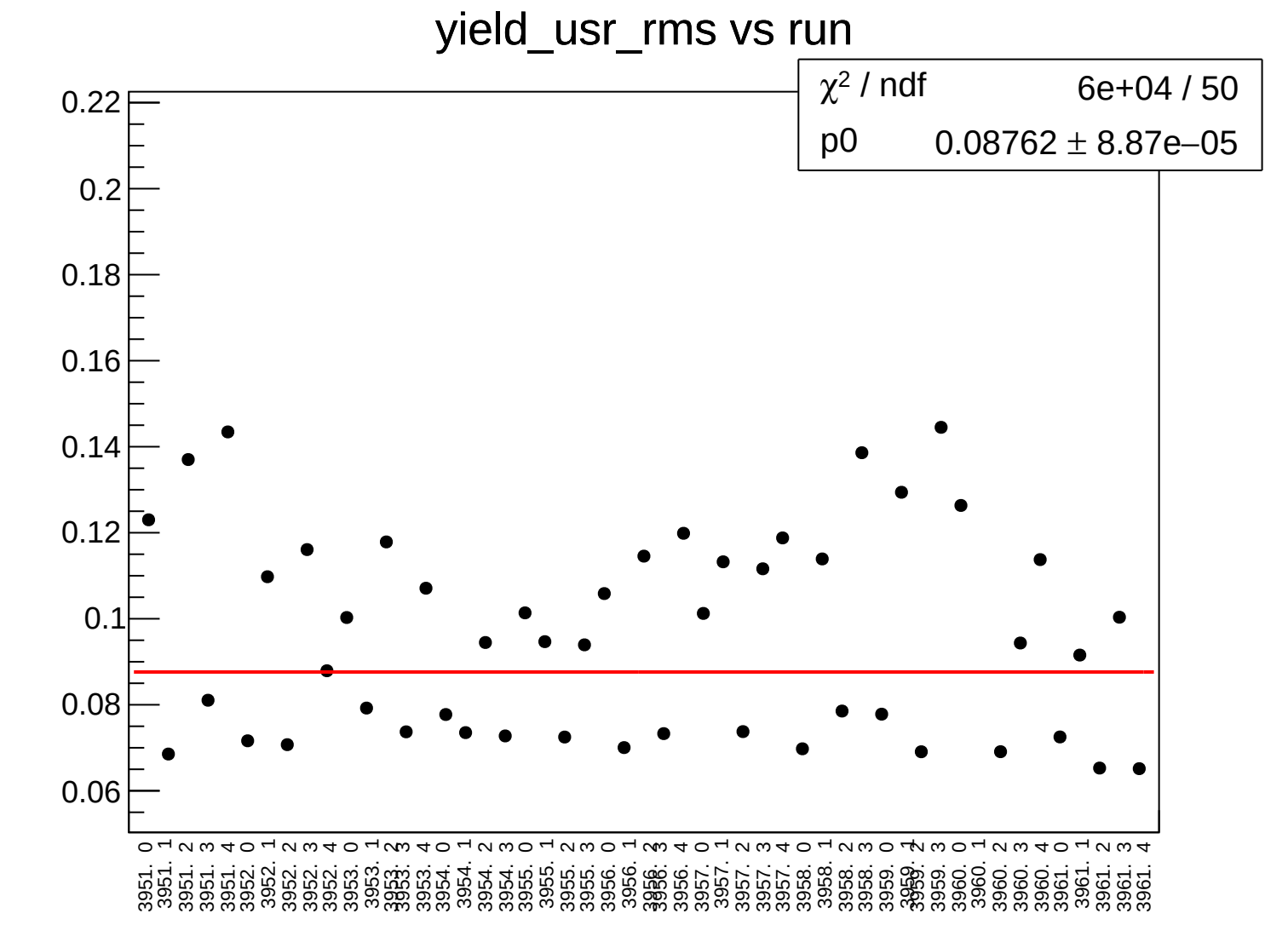
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


yield_usr_mean vs run
χ² / ndf 1.254e+07 / 50
p0 68.79 ± 0.0001254
69.2
69
68.8
68.6
68.4
68.2
68
67.8
67.6
pull
Entries 51
Mean −691.9
Std Dev 722.6
500
0
−500
−1000
−1500


pull1D
Entries 51
Mean 0.3581
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usr_rms vs run
χ² / ndf 6e+04 / 50
p0 0.08762 ± 8.87e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
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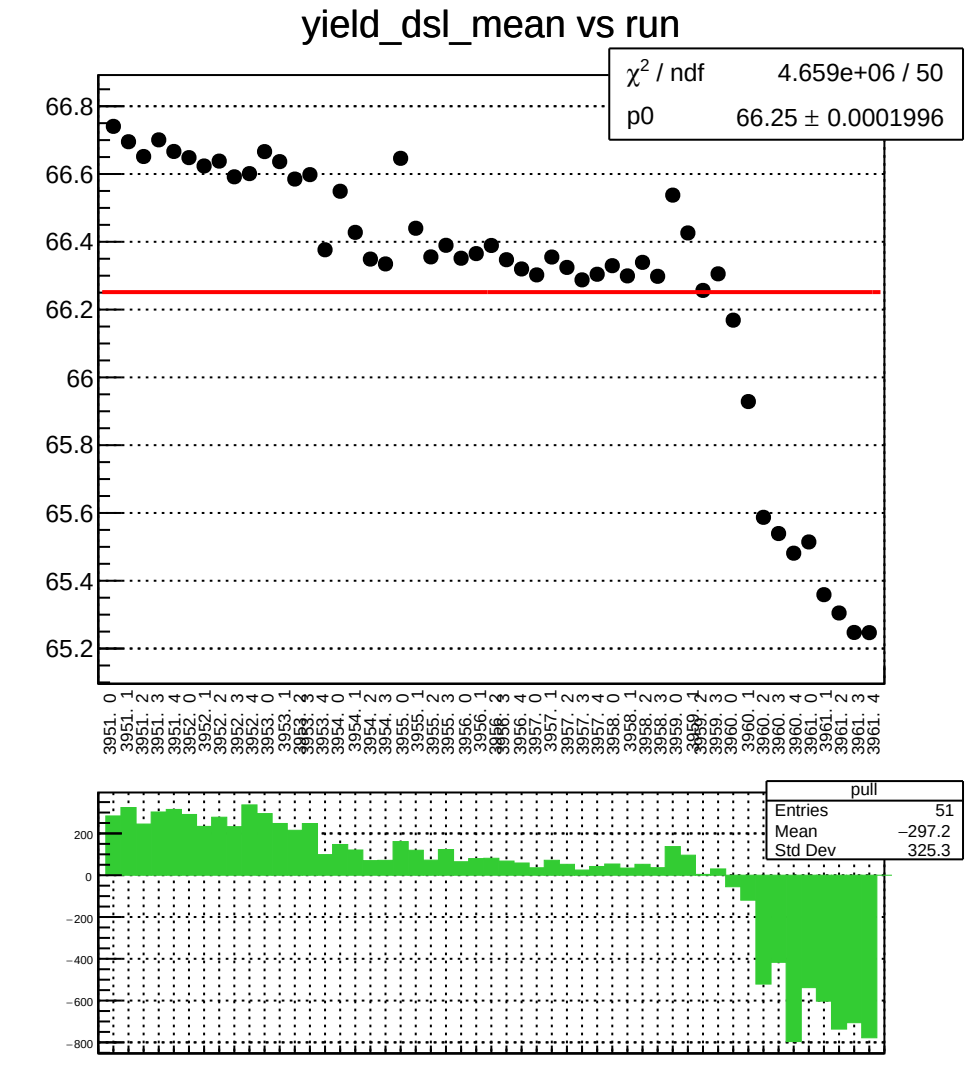
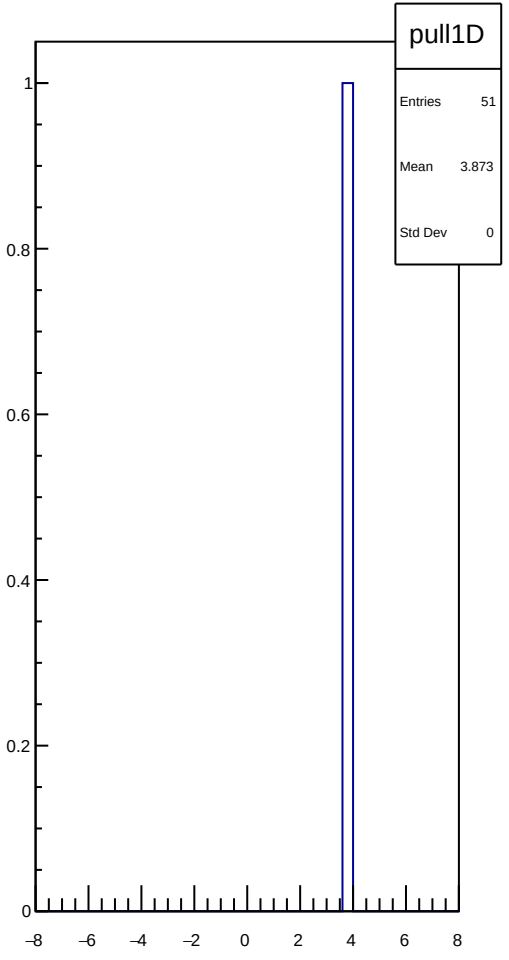
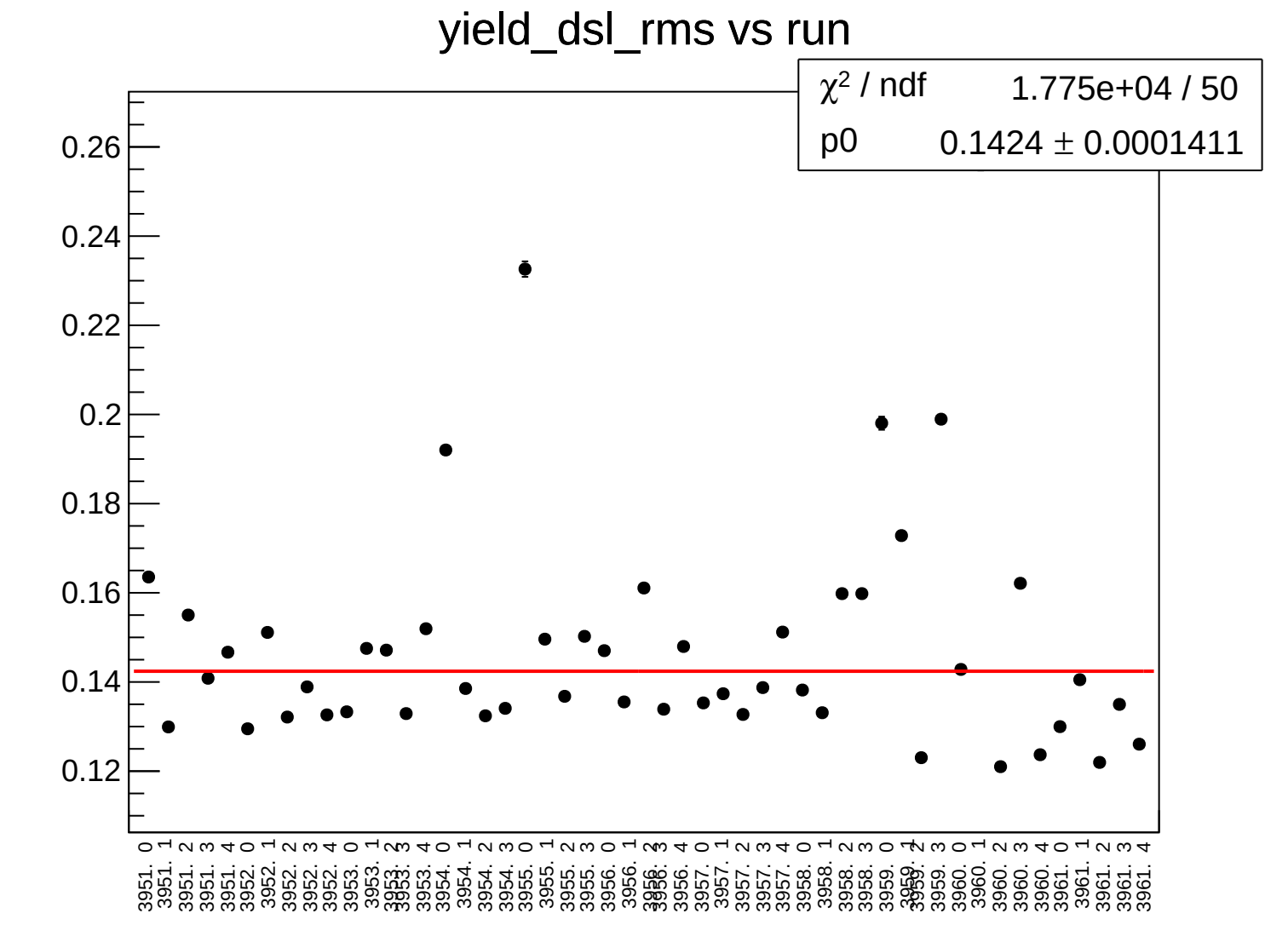
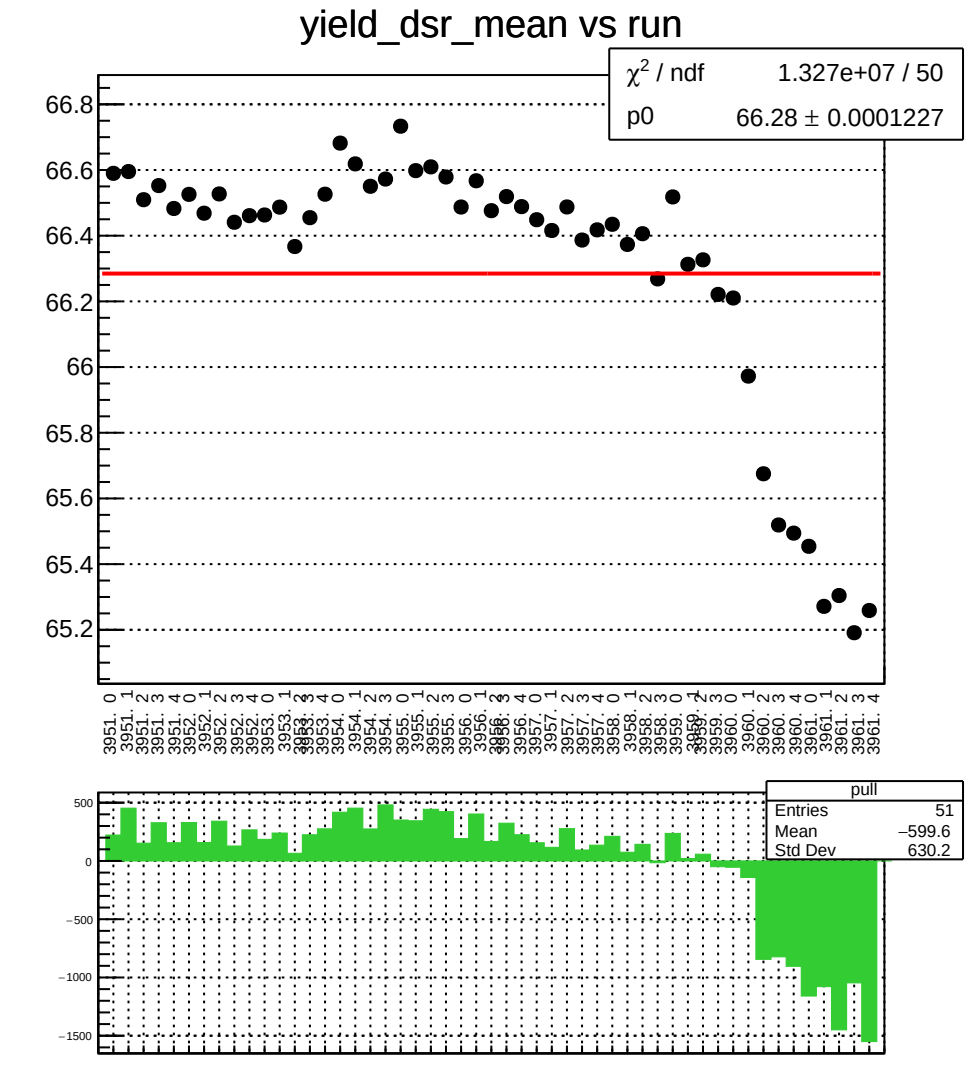
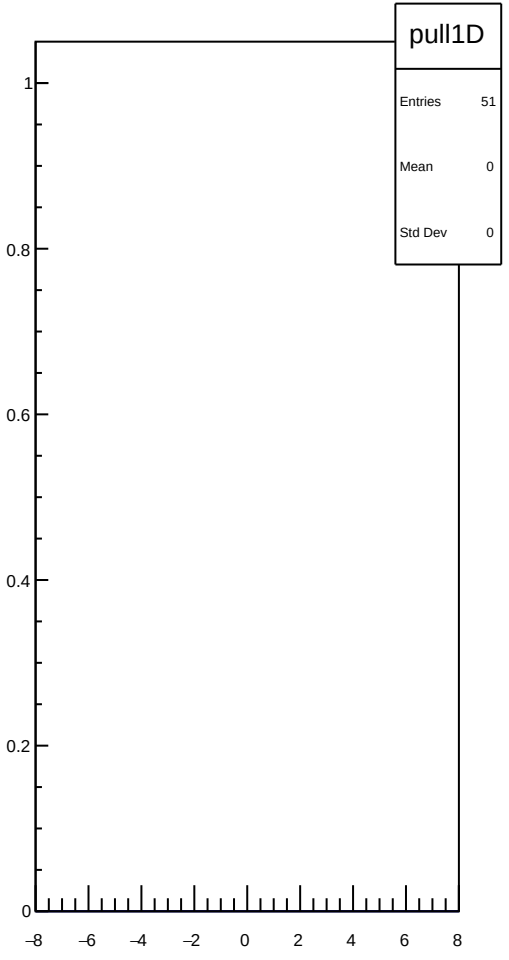
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

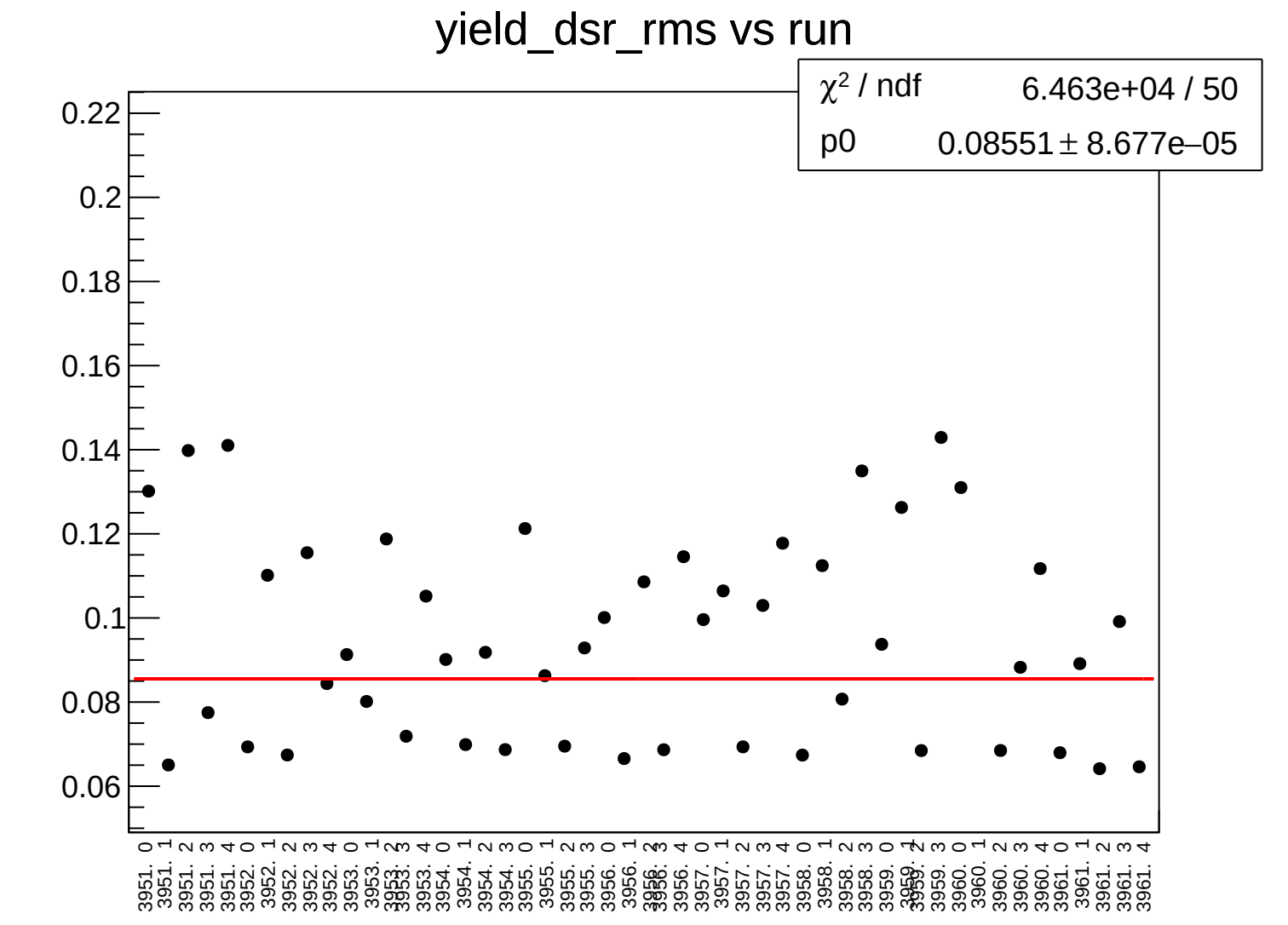

yield_dsl_mean vs run
χ² / ndf 4.659e+06 / 50
p0 66.25 ± 0.0001996
66.8
66.6
66.4
66.2
66
65.8
65.6
65.4
65.2
pull
Entries 51
Mean −297.2
Std Dev 325.3
200
0
−200
−400
−600
−800

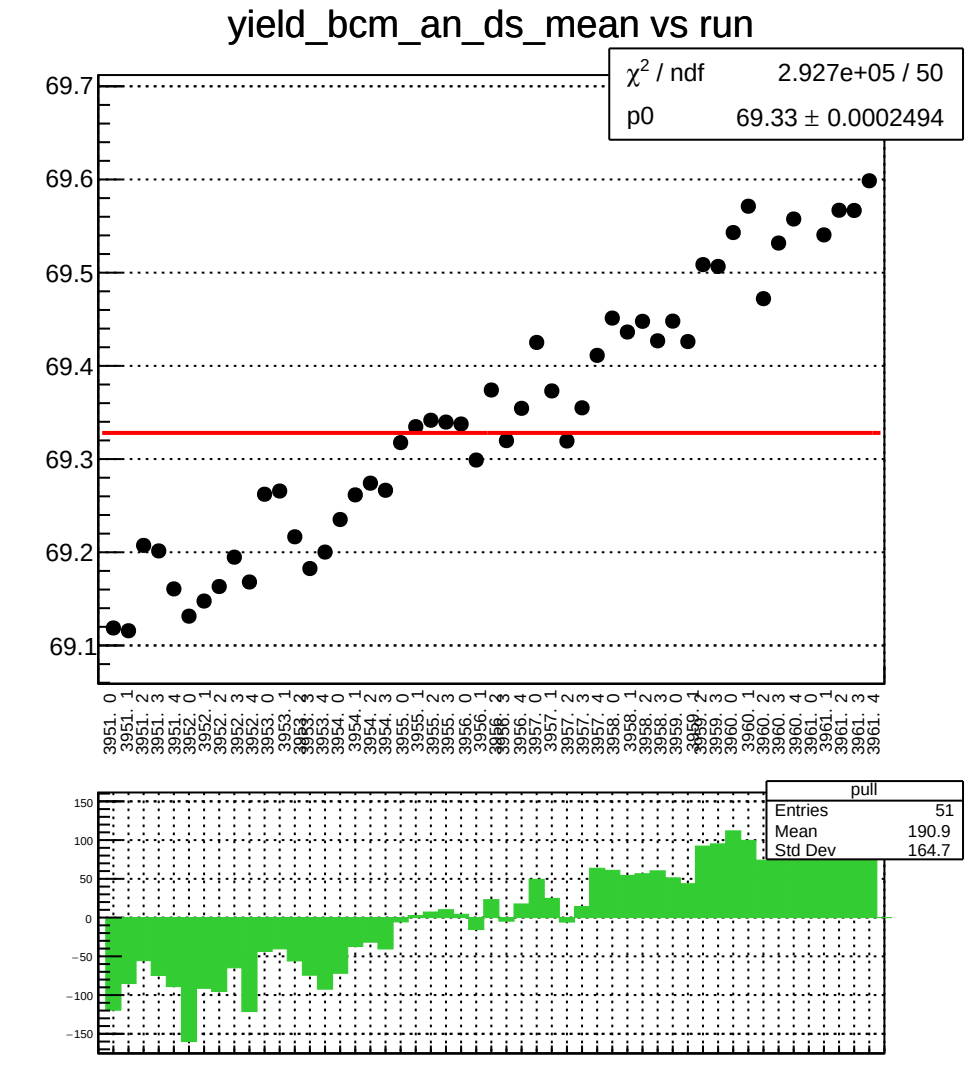

pull1D
Entries 51
Mean 3.873
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

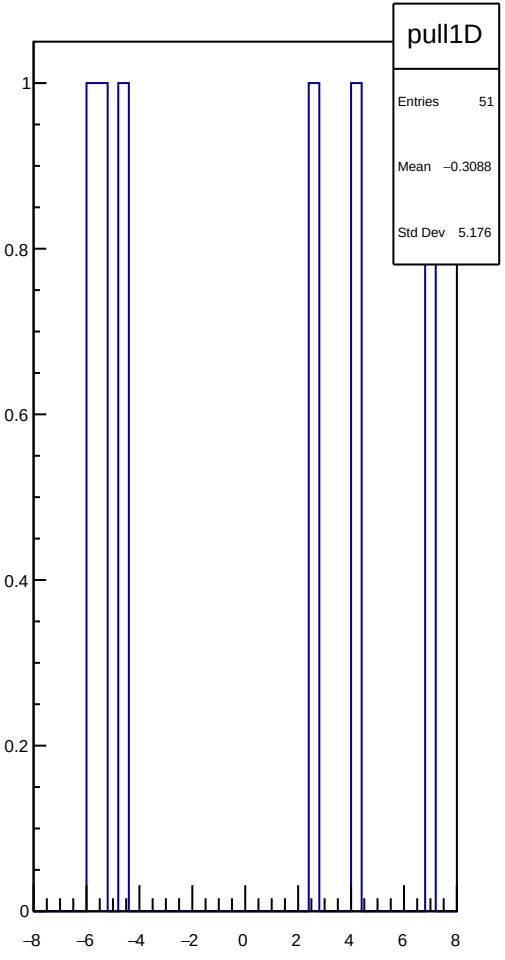

yield_dsl_rms vs run
χ² / ndf 1.775e+04 / 50
p0 0.1424 ± 0.0001411
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

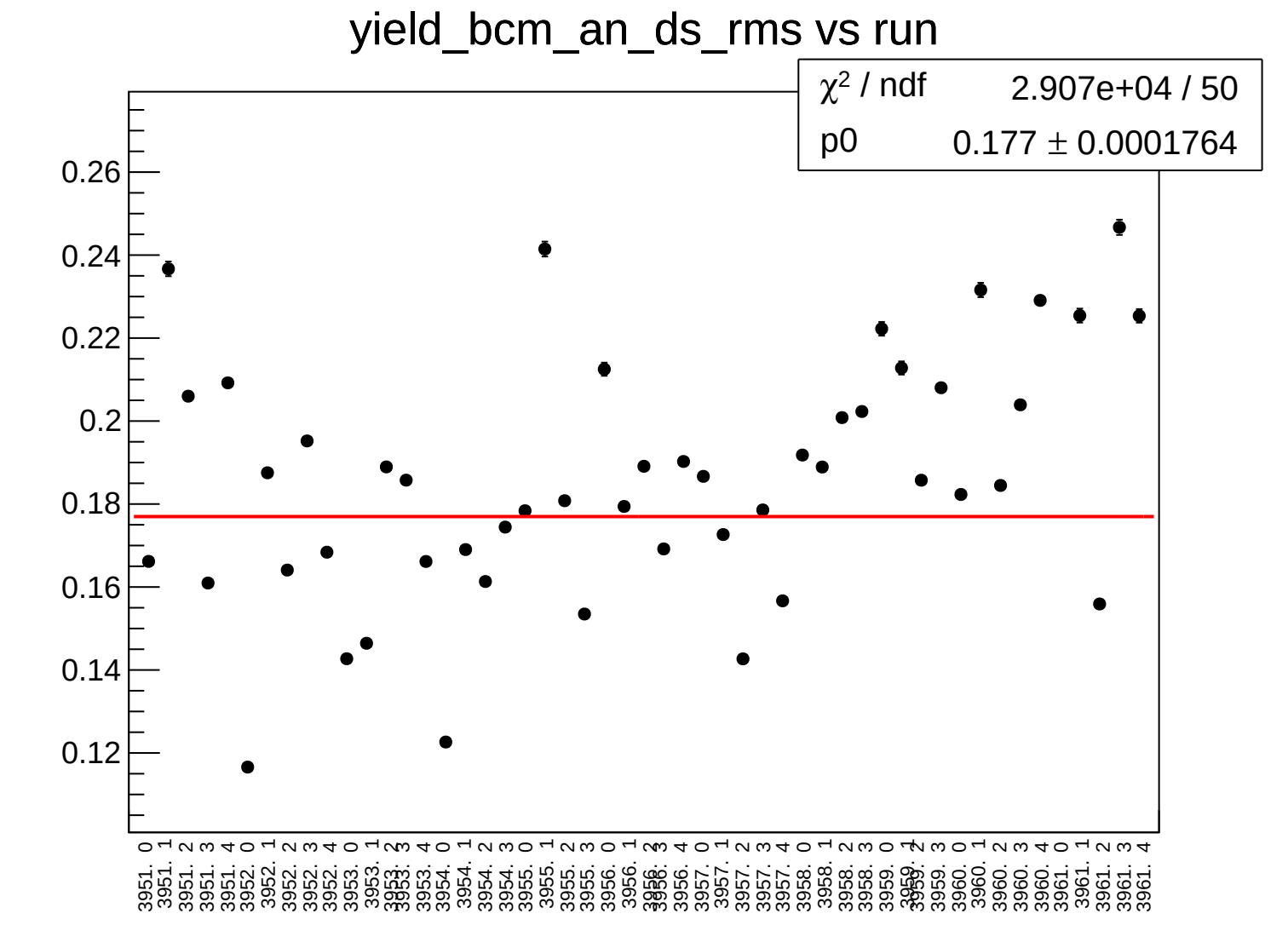

yield_dsr_mean vs run
χ² / ndf 1.327e+07 / 50
p0 66.28 ± 0.0001227
66.8
66.6
66.4
66.2
66
65.8
65.6
65.4
65.2
pull
Entries 51
Mean −599.6
Std Dev 630.2
500
0
−500
−1000
−1500

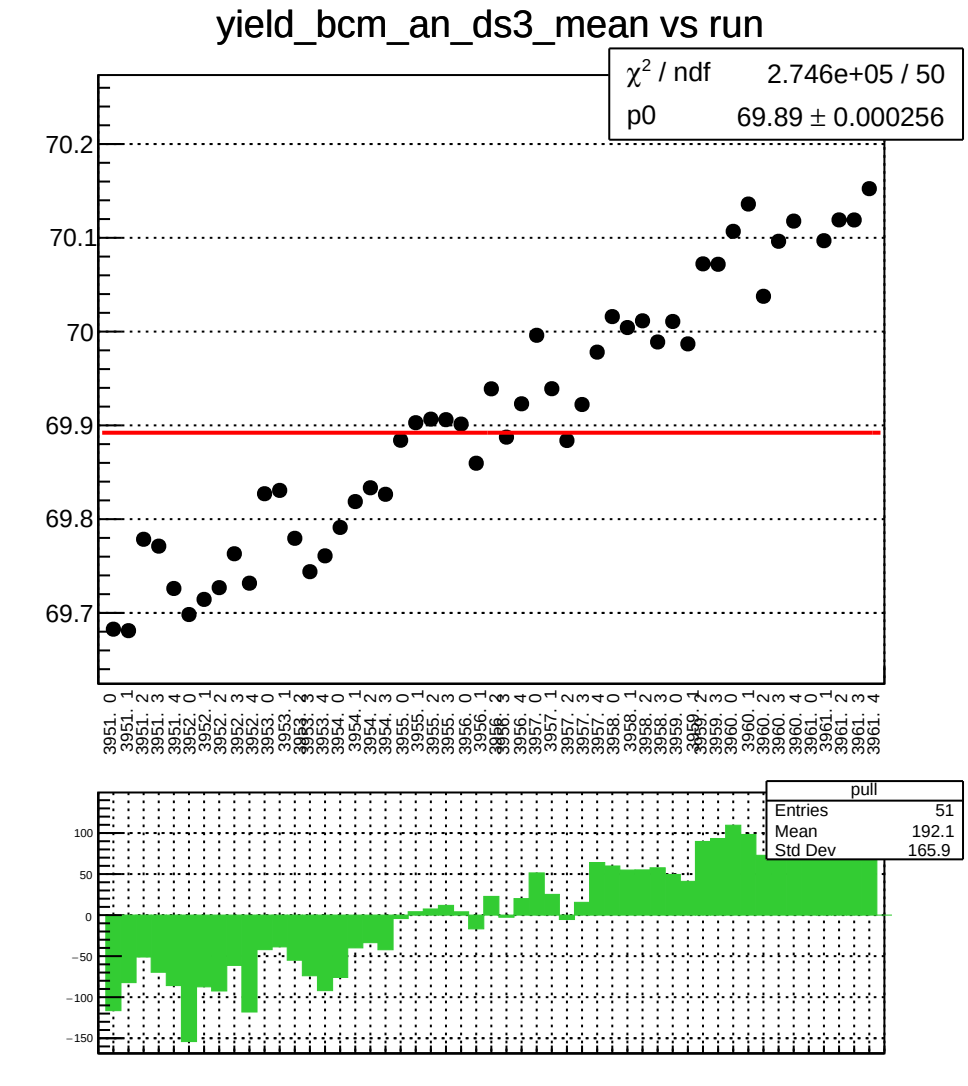

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

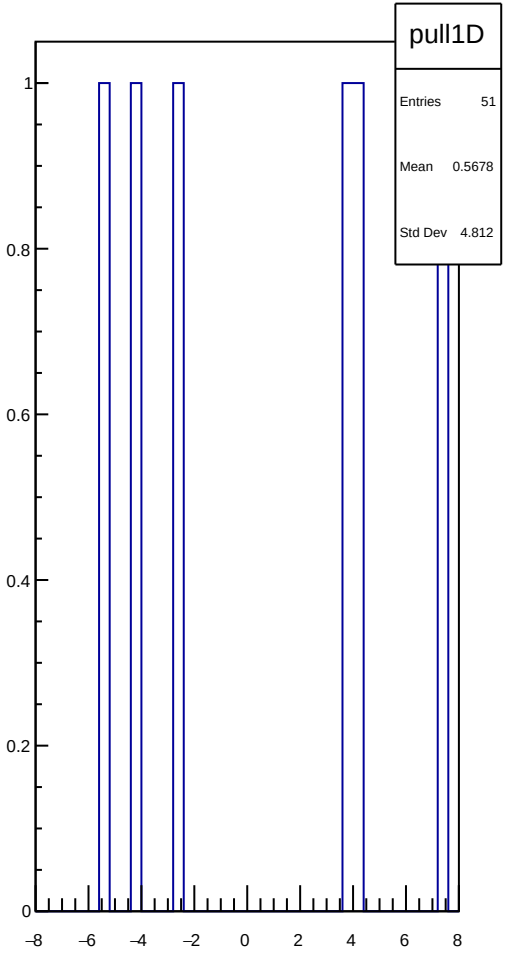

yield_dsr_rms vs run
χ² / ndf 6.463e+04 / 50
p0 0.08551 ± 8.677e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

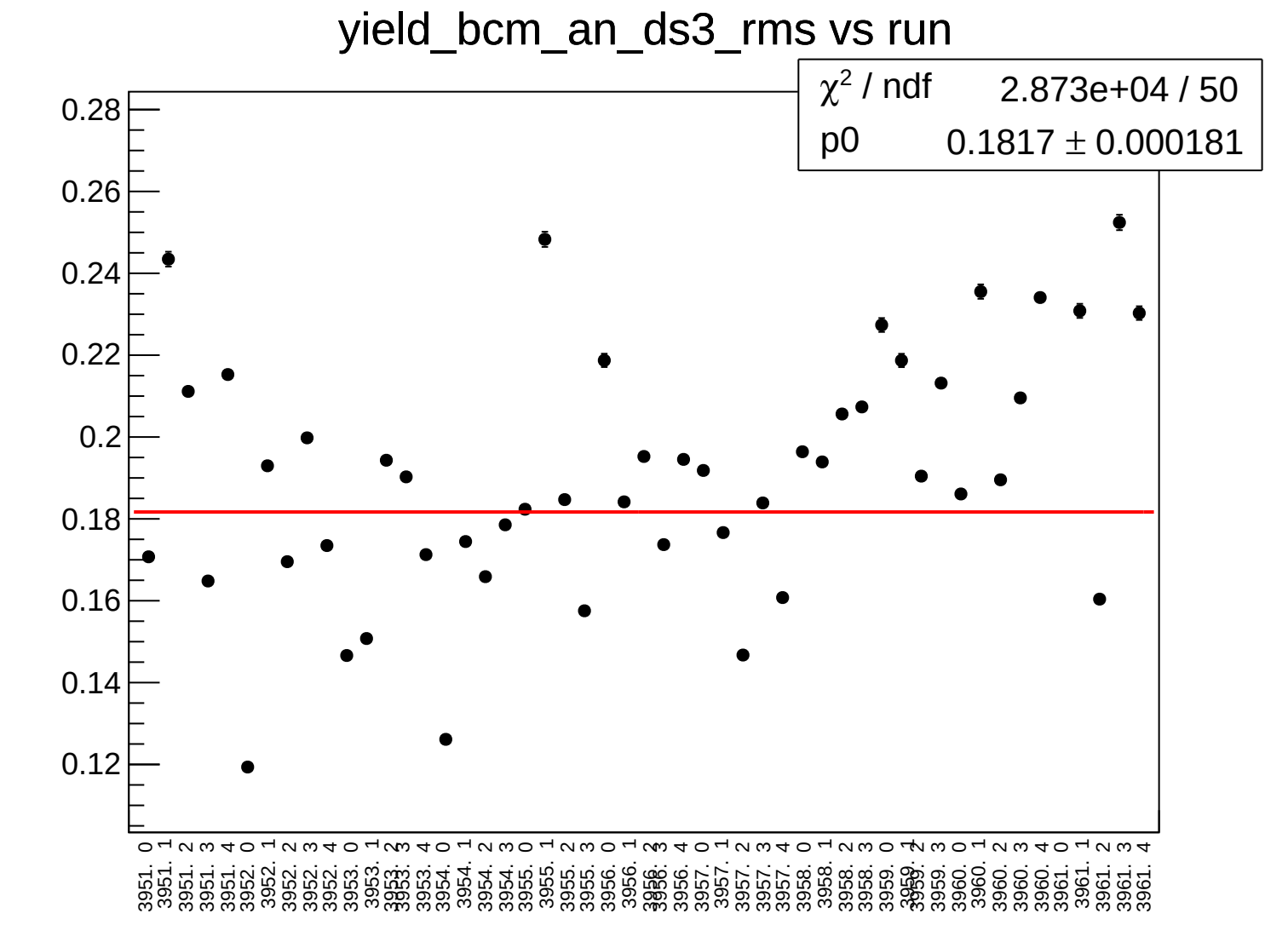

yield_bcm_an_ds_mean vs run
χ² / ndf 2.927e+05 / 50
p0 69.33 ± 0.0002494
69.7
69.6
69.5
69.4
69.3
69.2
69.1
pull
Entries 51
Mean 190.9
Std Dev 164.7
150
100
50
0
−50
−100
−150

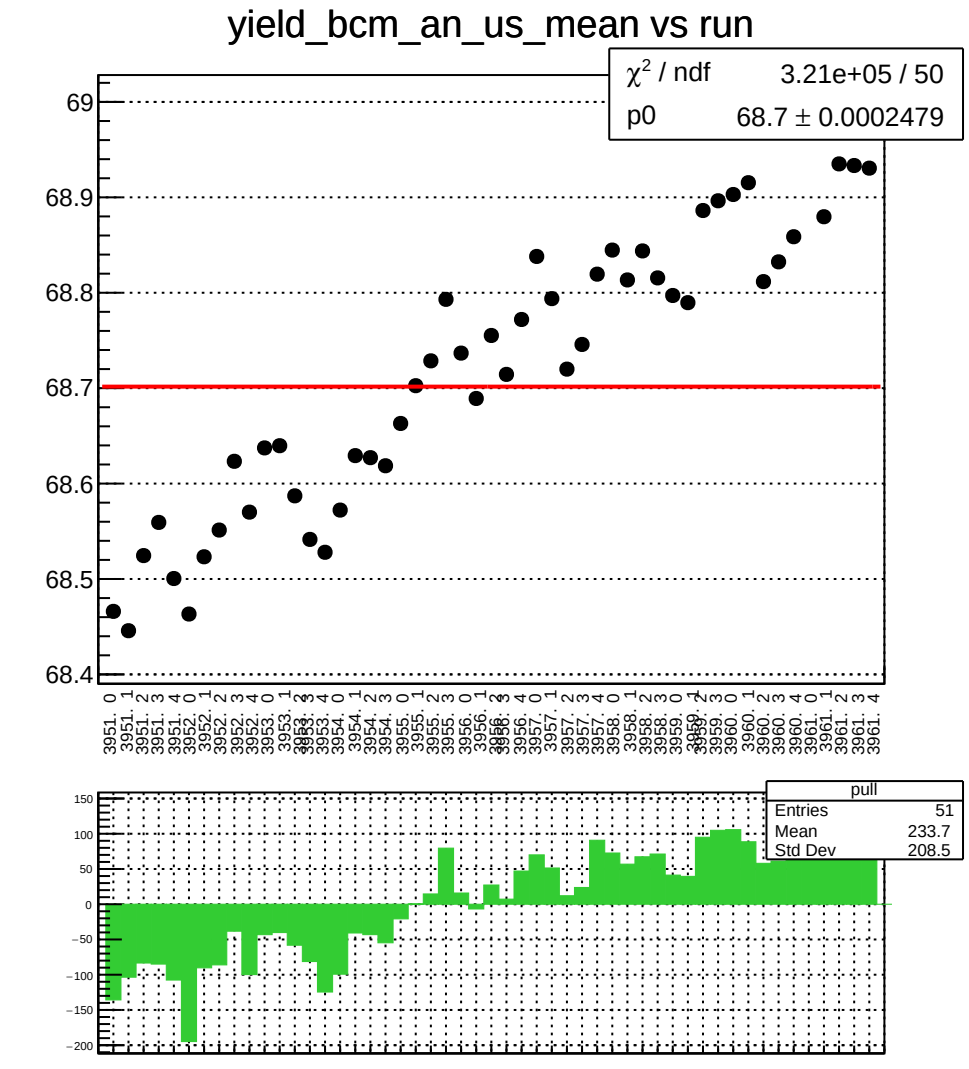

pull1D
Entries 51
Mean −0.3088
Std Dev 5.176
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

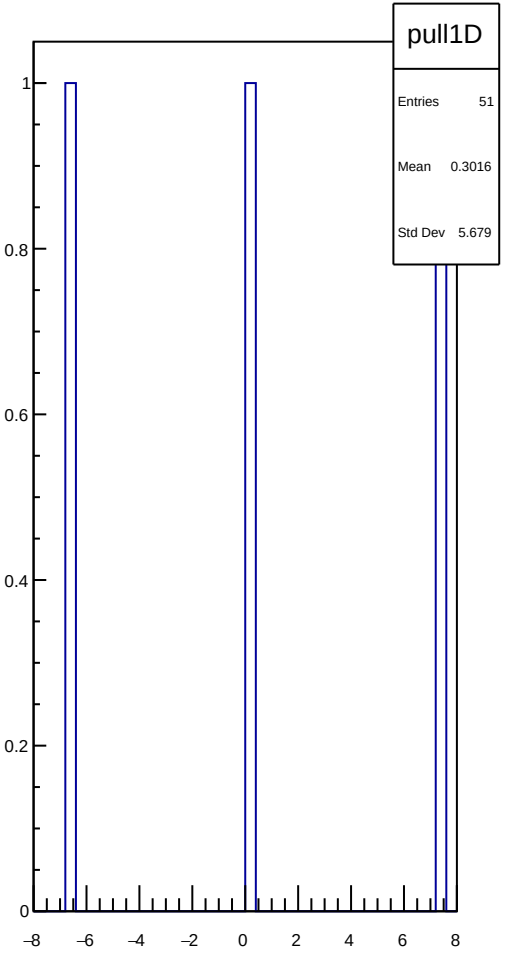

yield_bcm_an_ds_rms vs run
χ² / ndf 2.907e+04 / 50
p0 0.177 ± 0.0001764
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

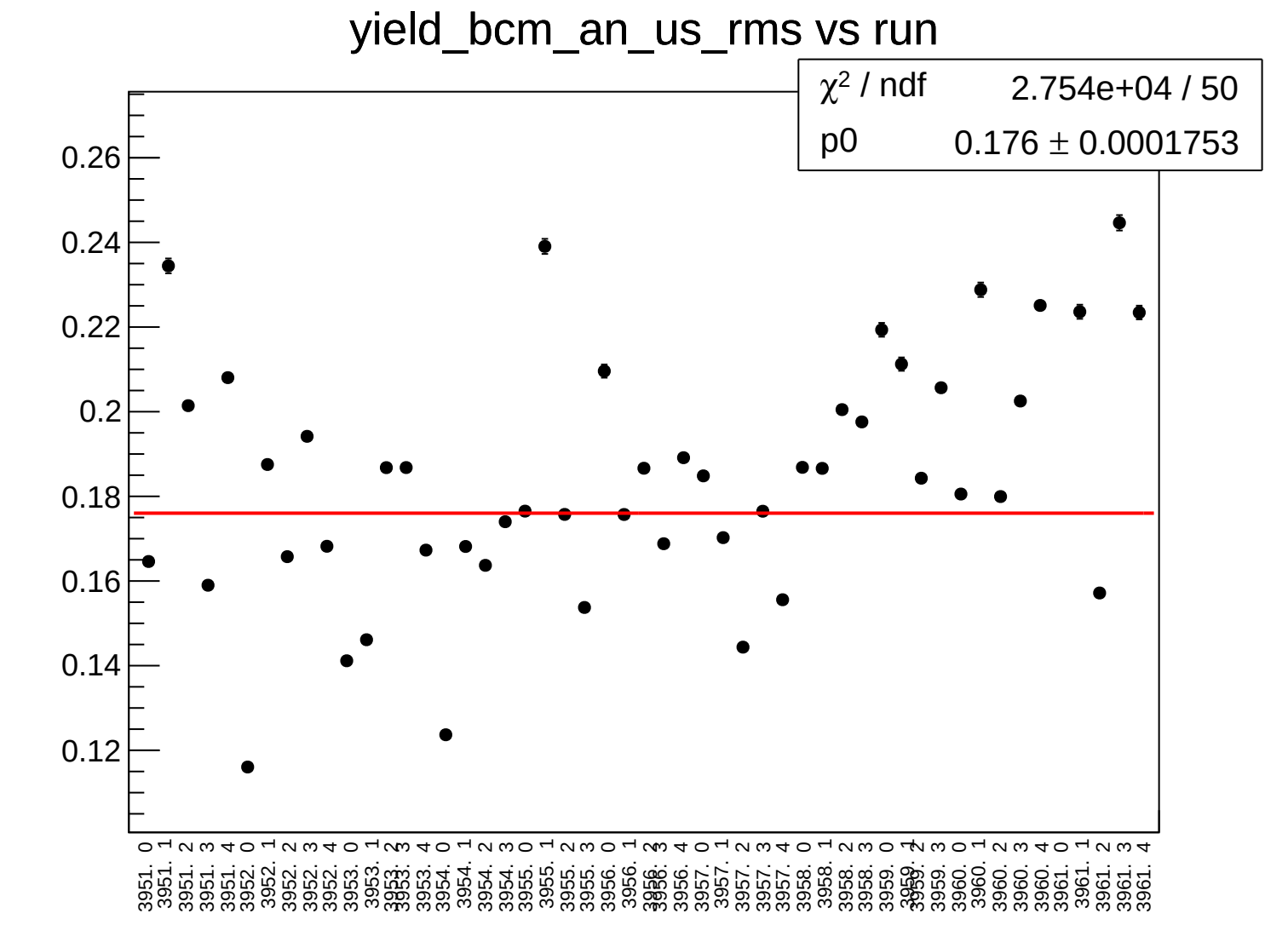

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.746e+05 / 50
p0 69.89 ± 0.000256
70.2
70.1
70
69.9
69.8
69.7
pull
Entries 51
Mean 192.1
Std Dev 165.9
100
50
0
−50
−100
−150

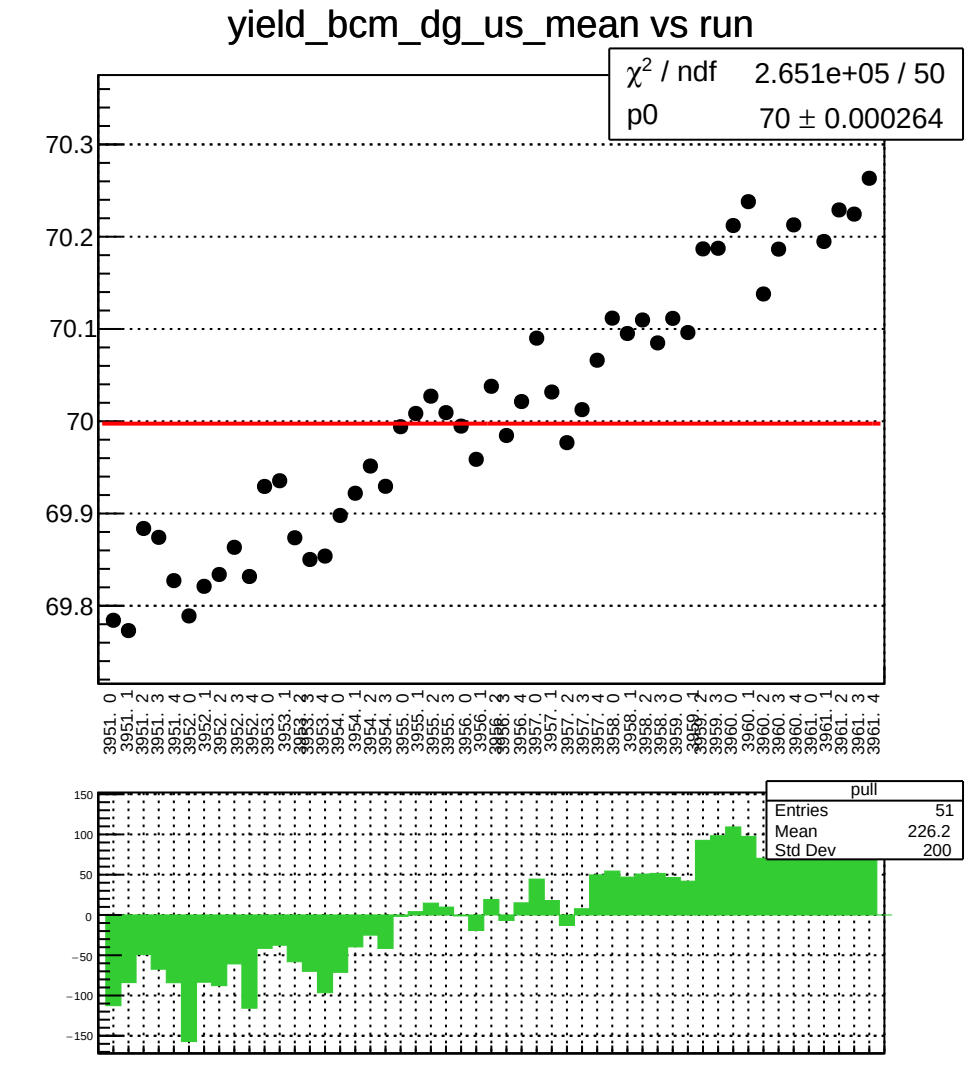

pull1D
Entries 51
Mean 0.5678
Std Dev 4.812
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

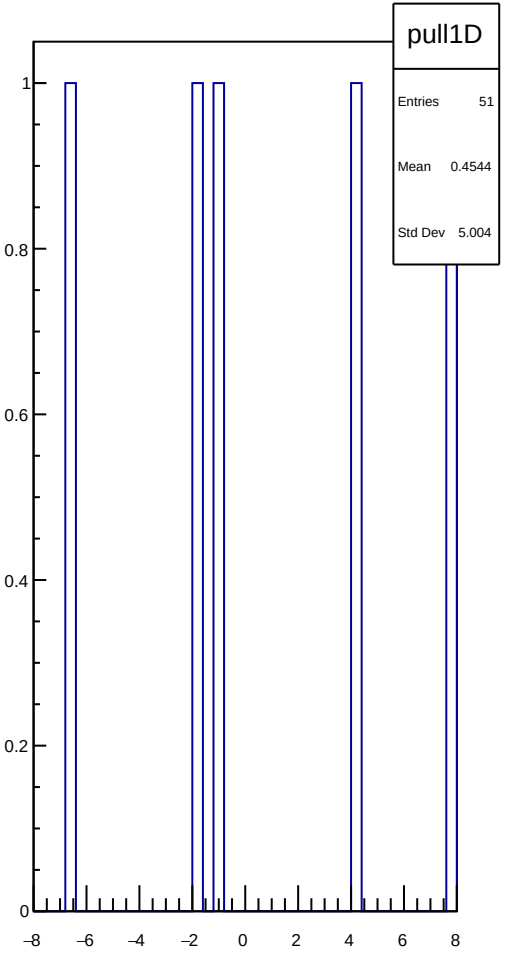

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.873e+04 / 50
p0 0.1817 ± 0.000181
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

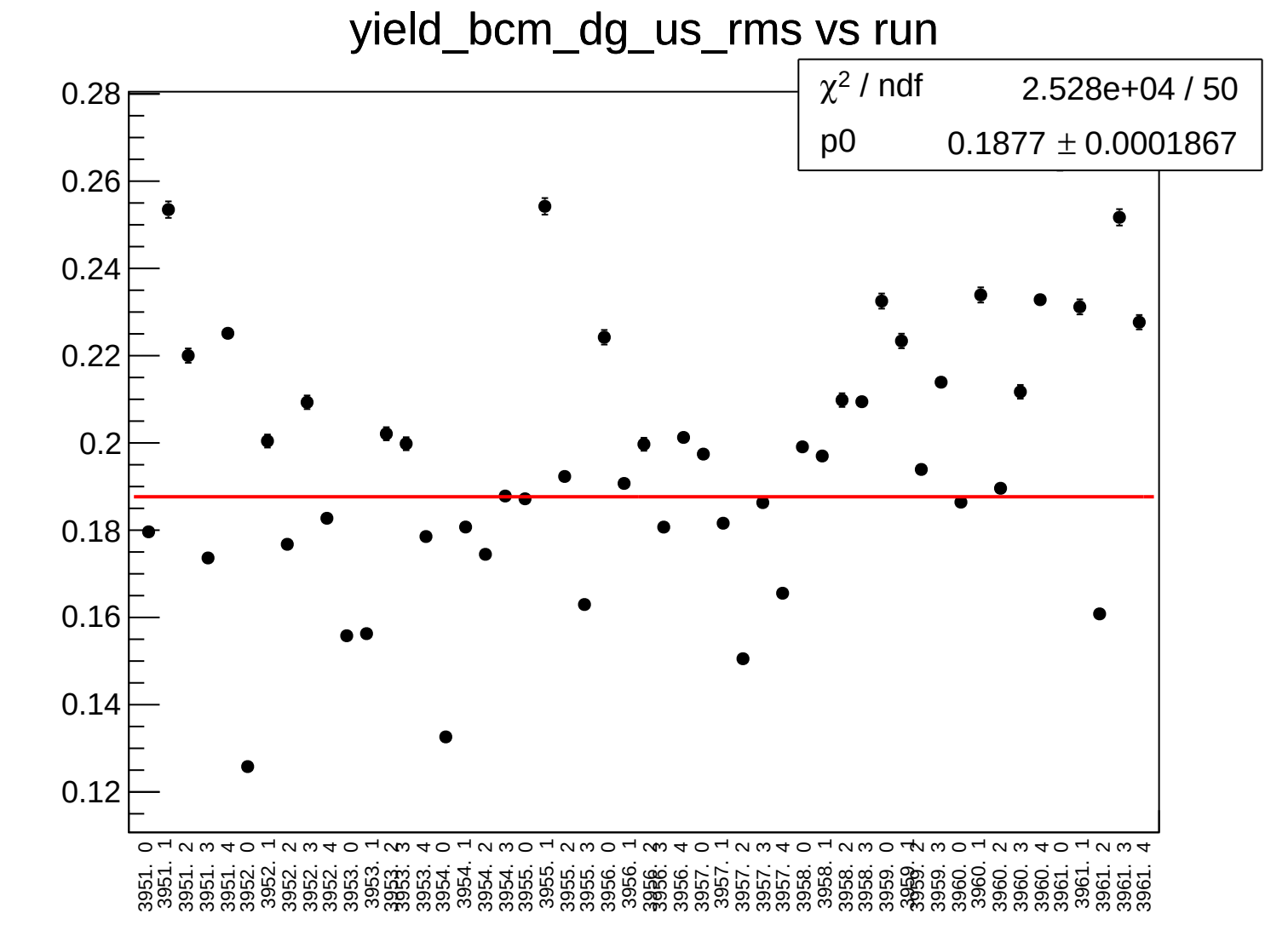

yield_bcm_an_us_mean vs run
χ² / ndf 3.21e+05 / 50
p0 68.7 ± 0.0002479
pull
Entries 51
Mean 233.7
Std Dev 208.5

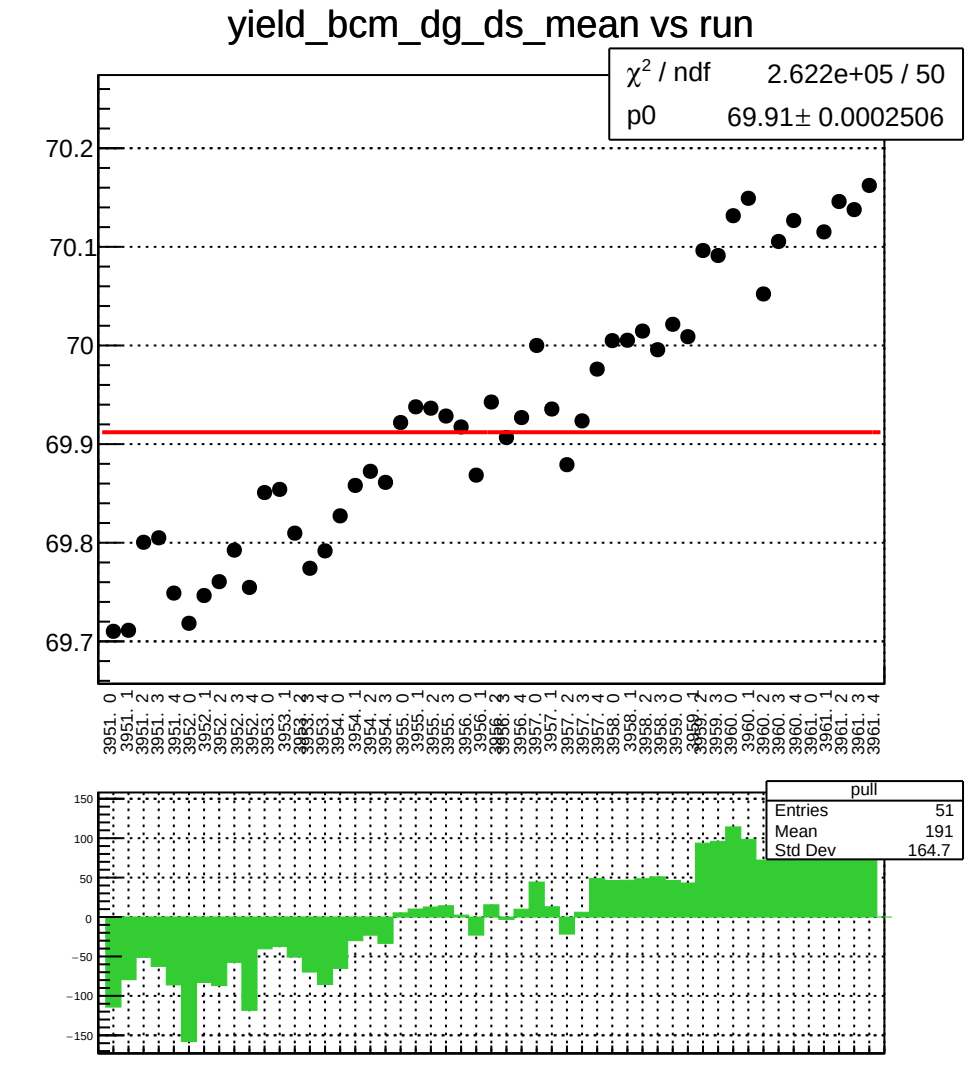

pull1D
Entries 51
Mean 0.3016
Std Dev 5.679

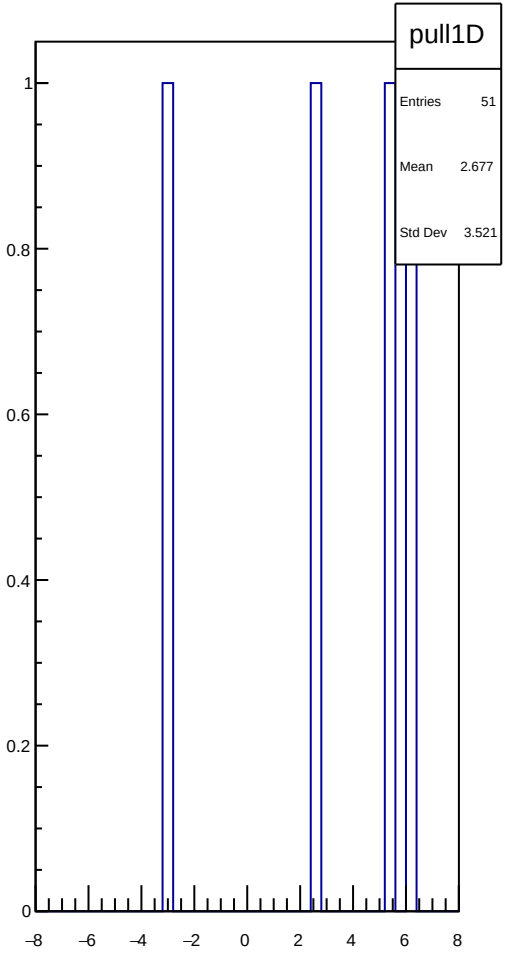

yield_bcm_an_us_rms vs run
χ² / ndf 2.754e+04 / 50
p0 0.176 ± 0.0001753
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

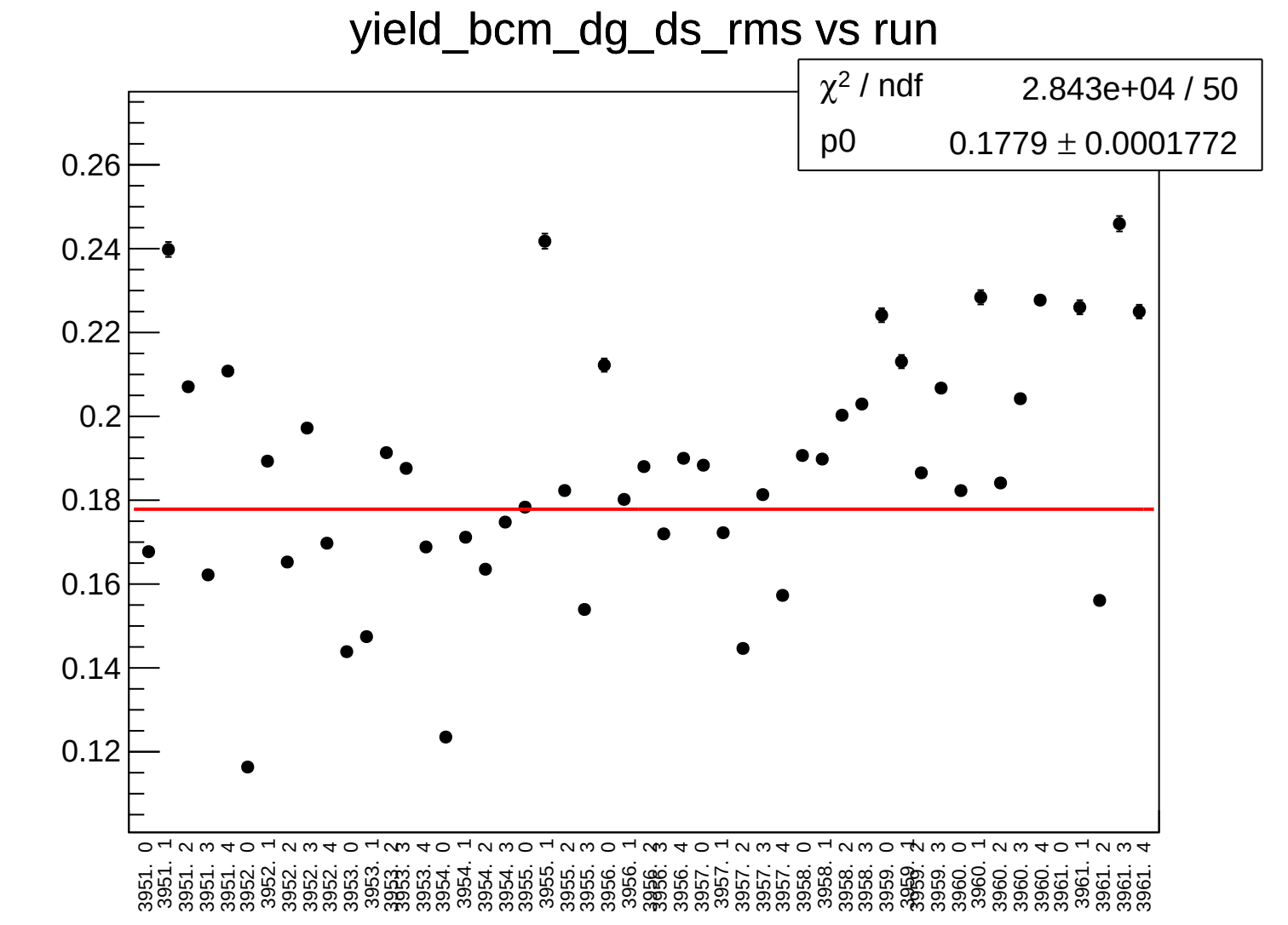

yield_bcm_dg_us_mean vs run
χ² / ndf 2.651e+05 / 50
p0 70 ± 0.000264
70.3
70.2
70.1
70
69.9
69.8
pull
Entries 51
Mean 226.2
Std Dev 200
150
100
50
0
−50
−100
−150

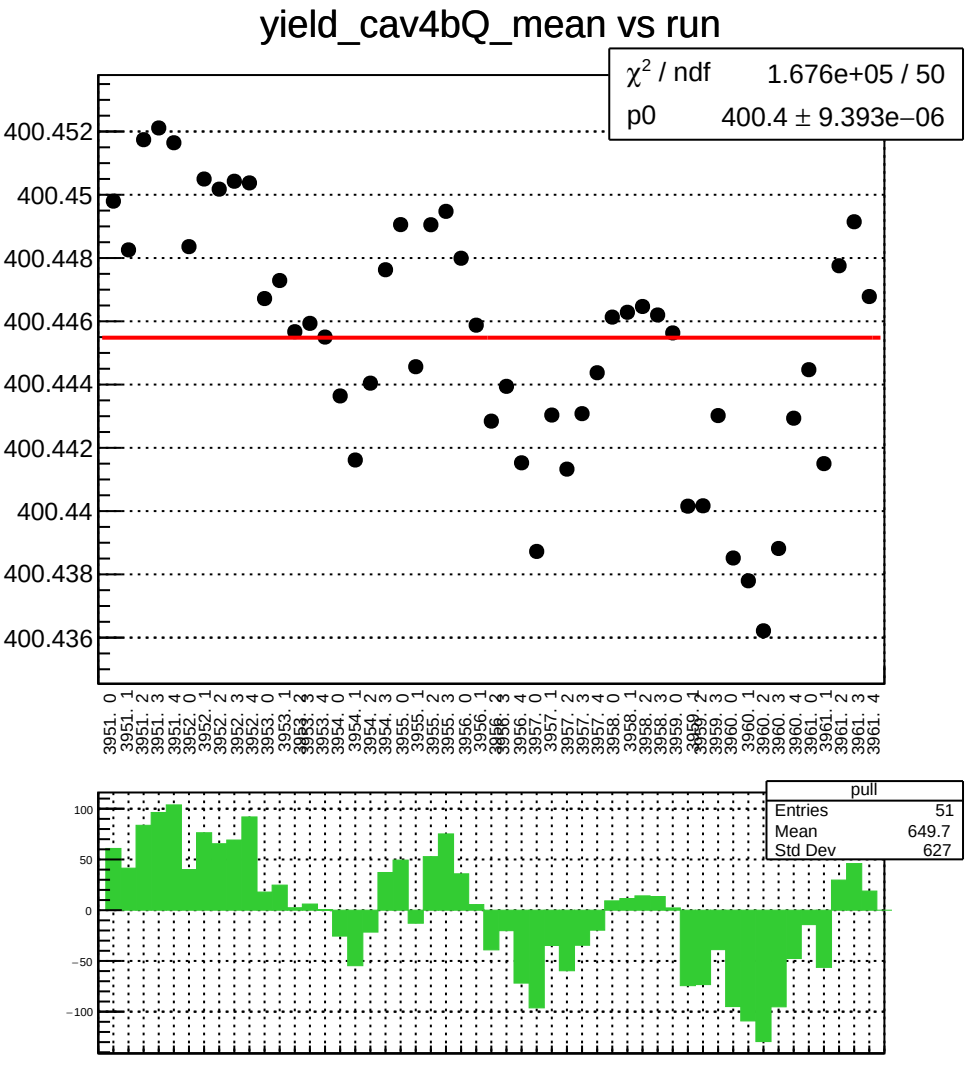

pull1D
Entries 51
Mean 0.4544
Std Dev 5.004
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

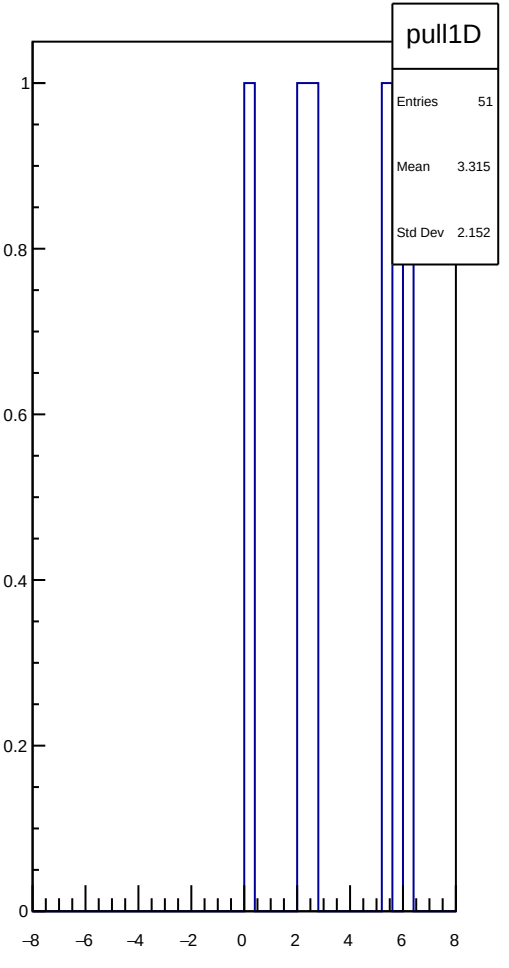

yield_bcm_dg_us_rms vs run
χ² / ndf 2.528e+04 / 50
p0 0.1877 ± 0.0001867
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

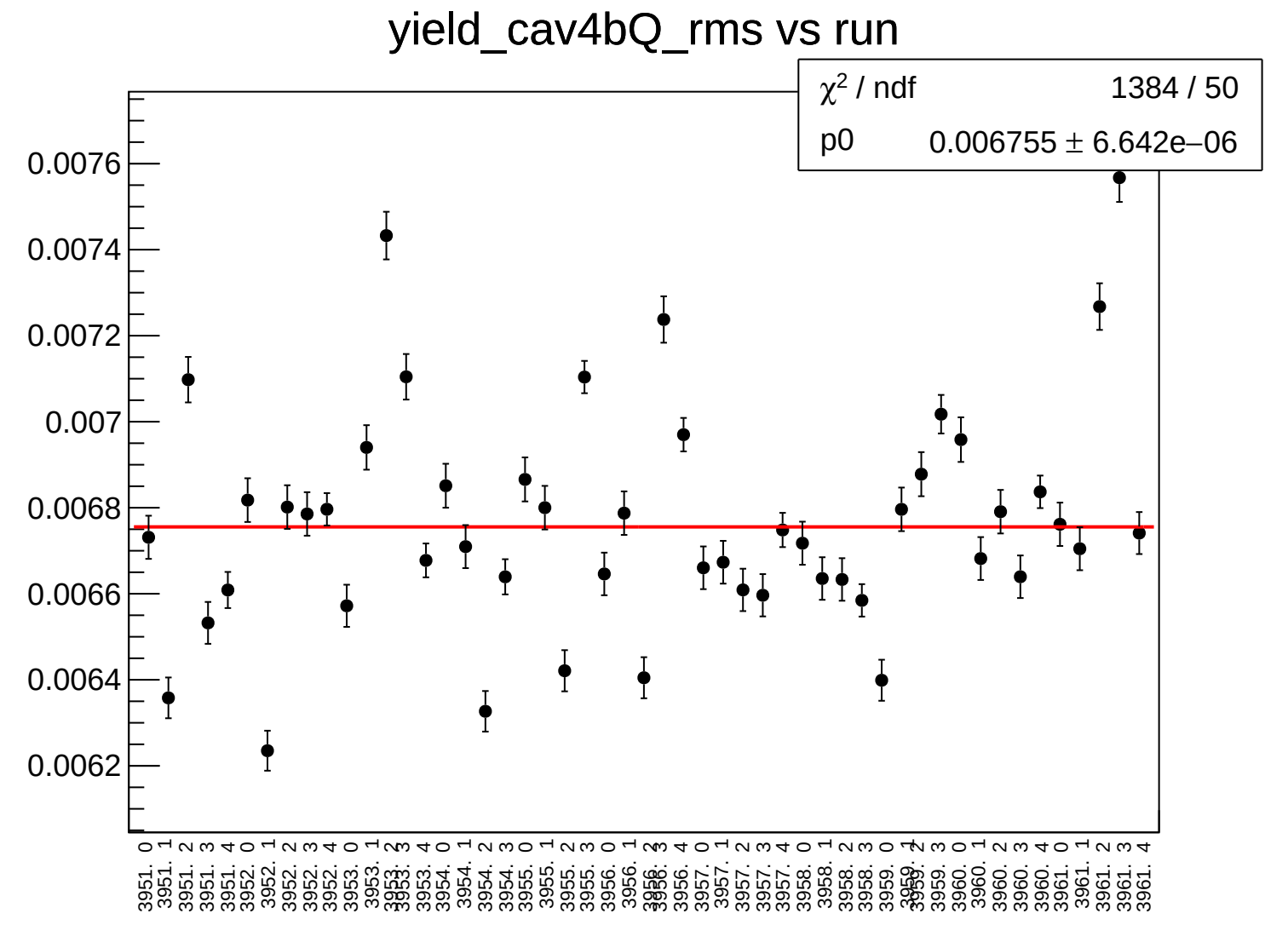

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.622e+05 / 50
p0 69.91± 0.0002506
70.2
70.1
70
69.9
69.8
69.7
pull
Entries 51
Mean 191
Std Dev 164.7
150
100
50
0
−50
−100
−150

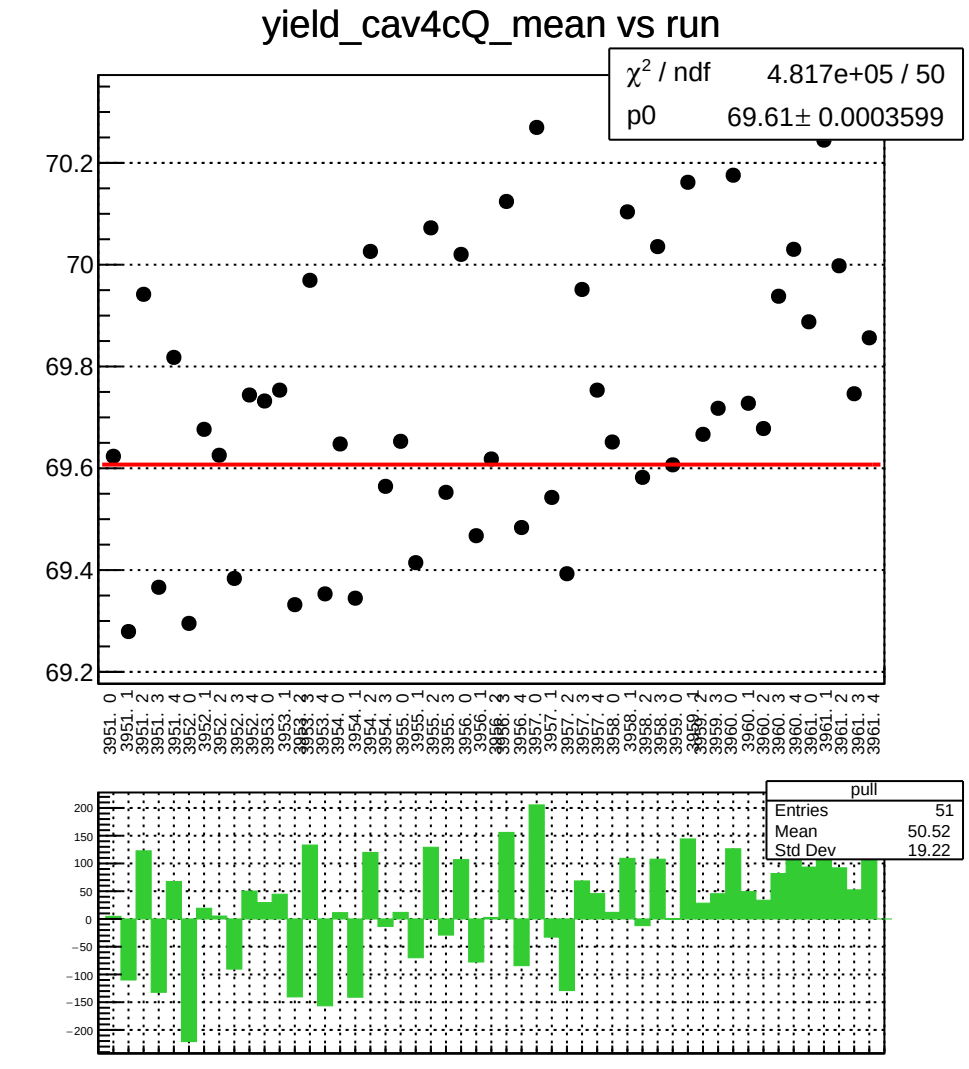

pull1D
Entries 51
Mean 2.677
Std Dev 3.521
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

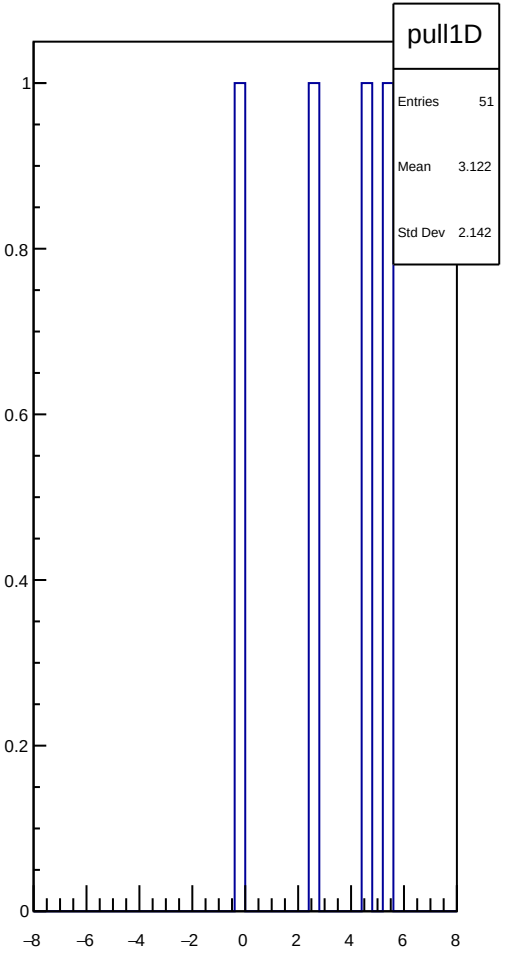

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.843e+04 / 50
p0 0.1779 ± 0.0001772
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

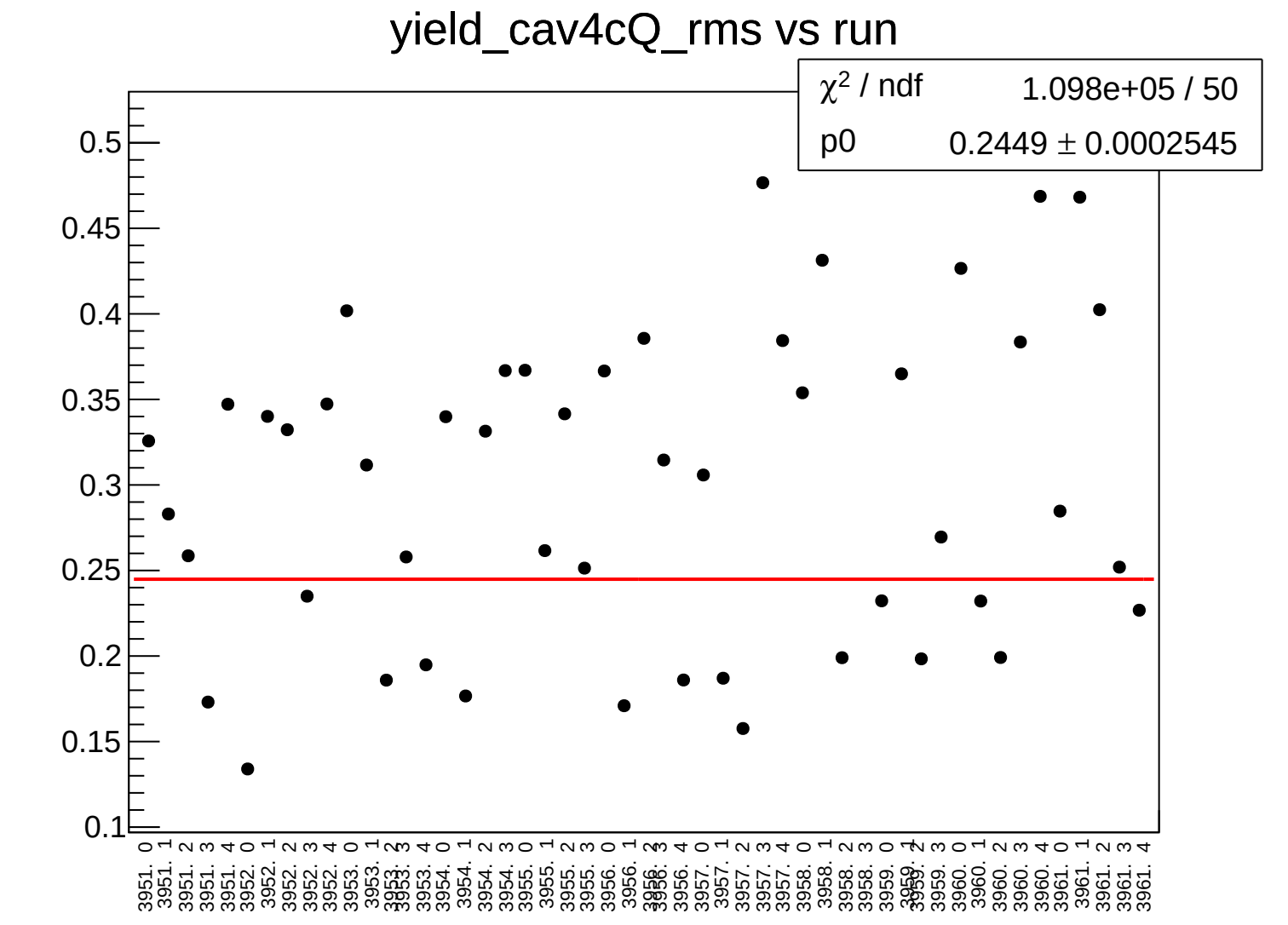

yield_cav4bQ_mean vs run
χ² / ndf 1.676e+05 / 50
p0 400.4 ± 9.393e−06
400.452
400.45
400.448
400.446
400.444
400.442
400.44
400.438
400.436
pull
Entries 51
Mean 649.7
Std Dev 627
100
50
0
−50
−100

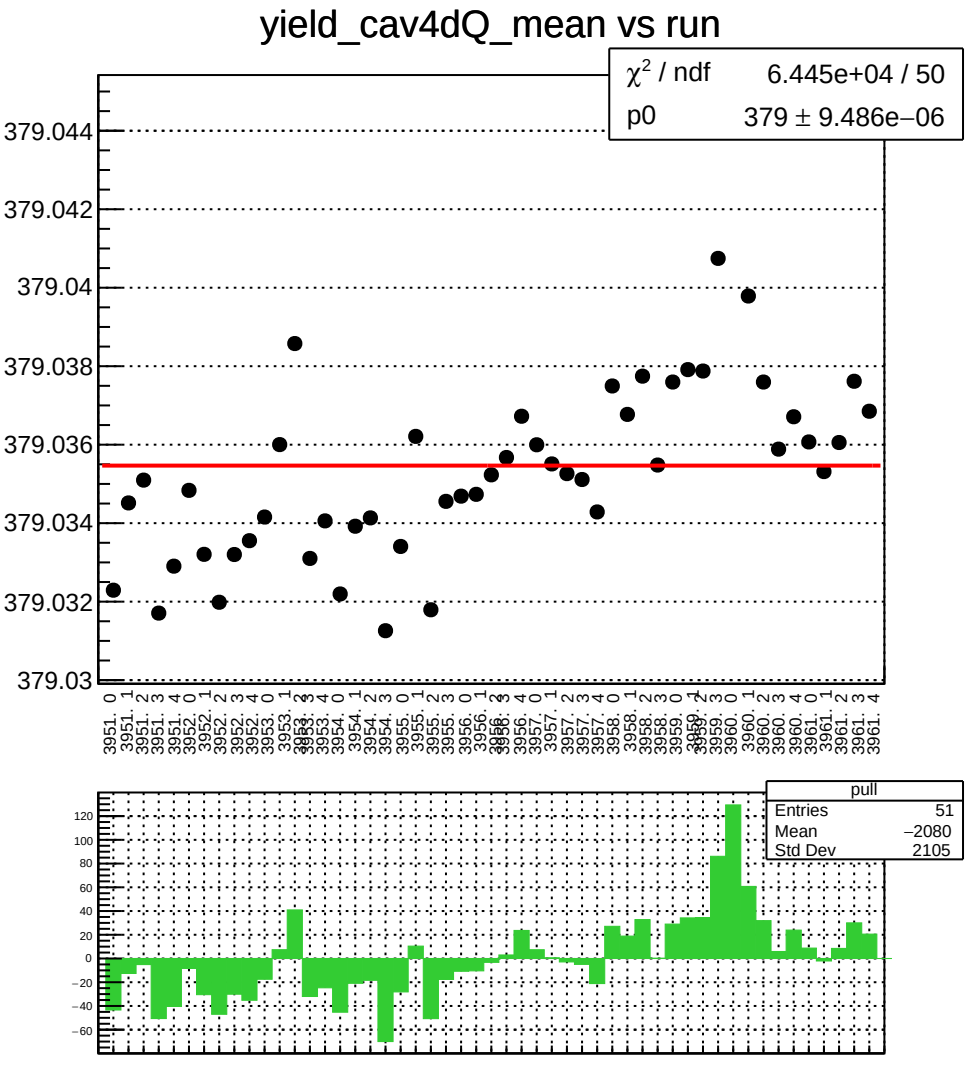

pull1D
Entries 51
Mean 3.315
Std Dev 2.152
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

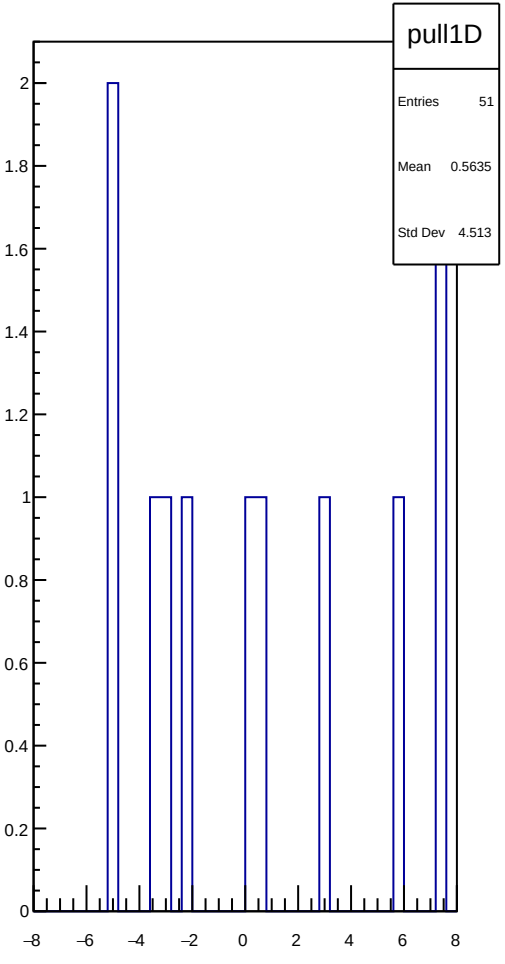

yield_cav4bQ_rms vs run
χ² / ndf 1384 / 50
p0 0.006755 ± 6.642e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

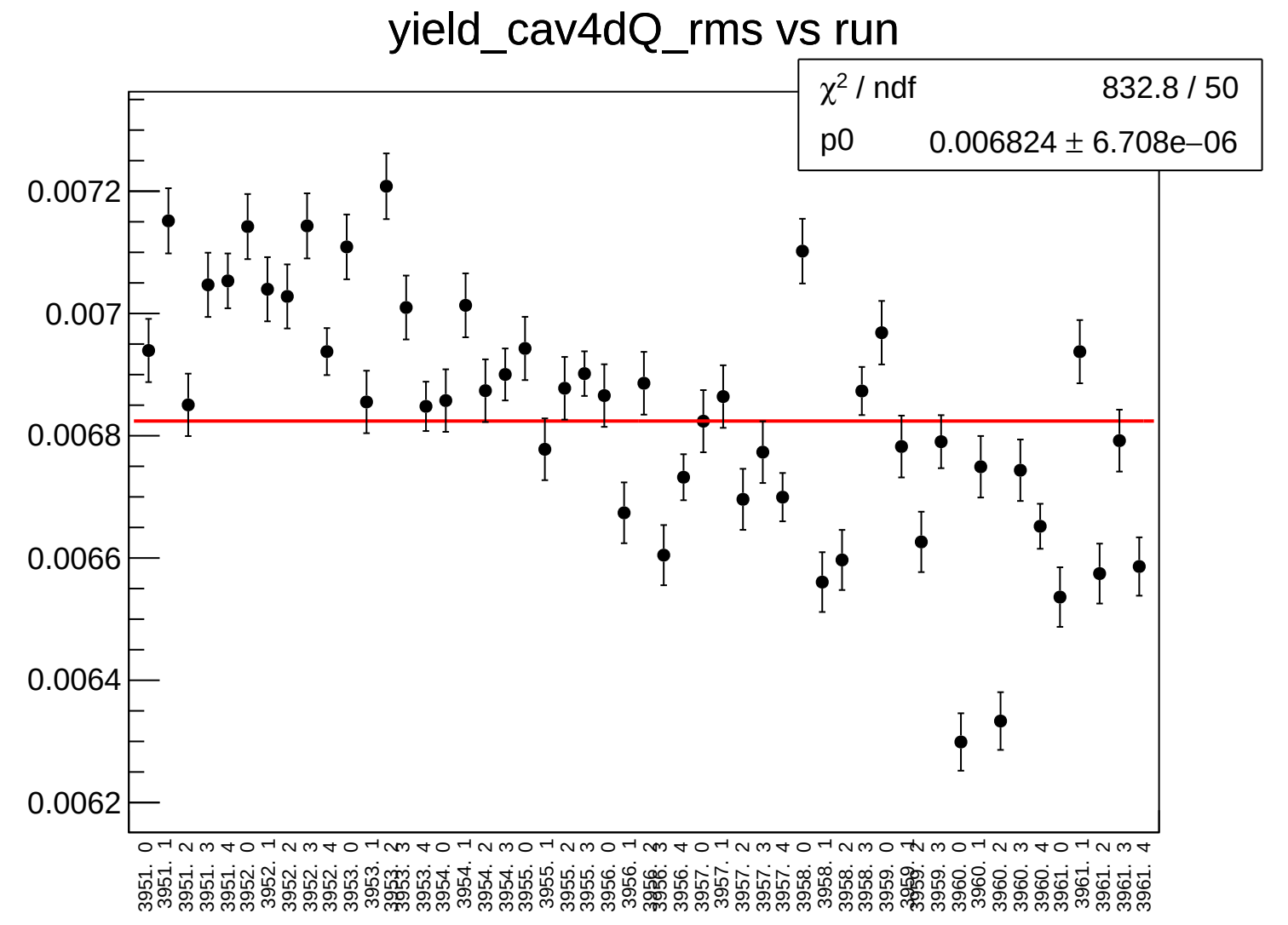

yield_cav4cQ_mean vs run
χ² / ndf 4.817e+05 / 50
p0 69.61± 0.0003599
70.2
70
69.8
69.6
69.4
69.2
pull
Entries 51
Mean 50.52
Std Dev 19.22
200
150
100
50
0
−50
−100
−150
−200

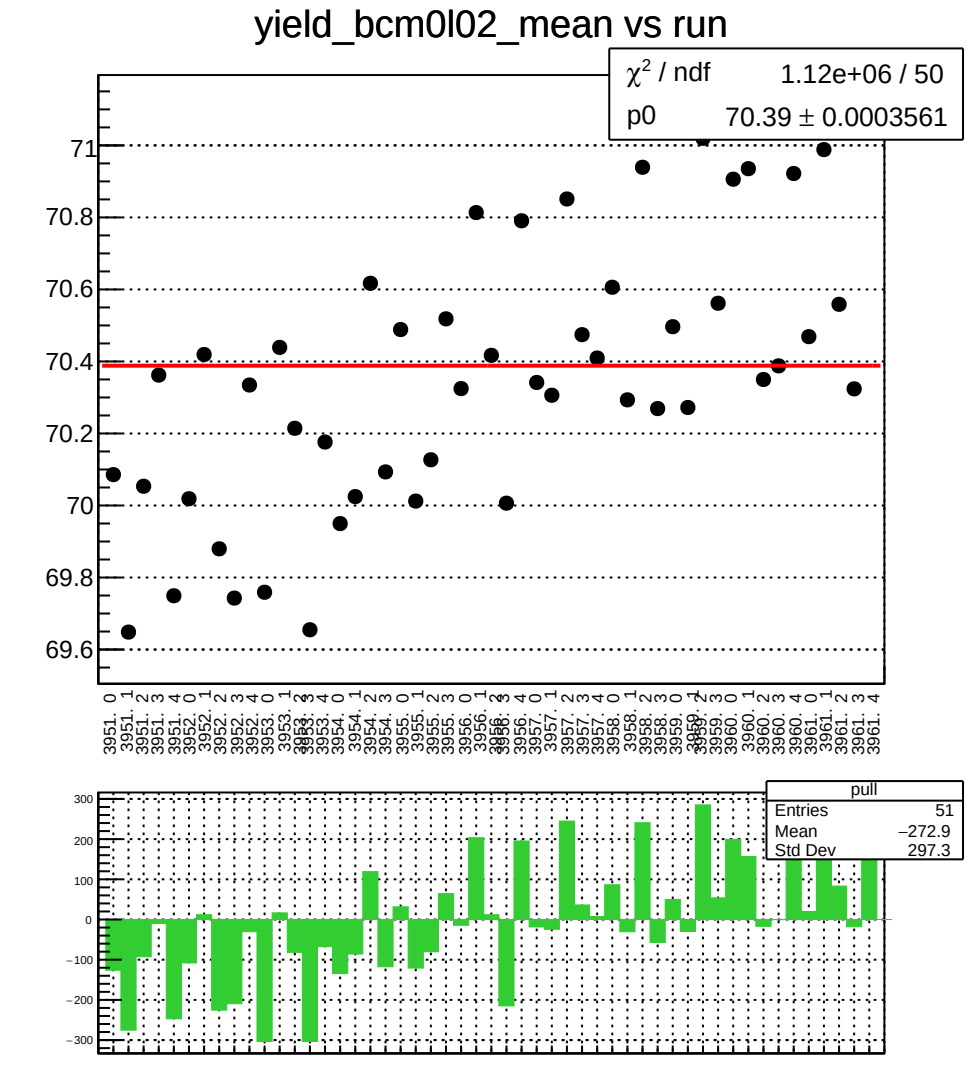

pull1D
Entries 51
Mean 3.122
Std Dev 2.142
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

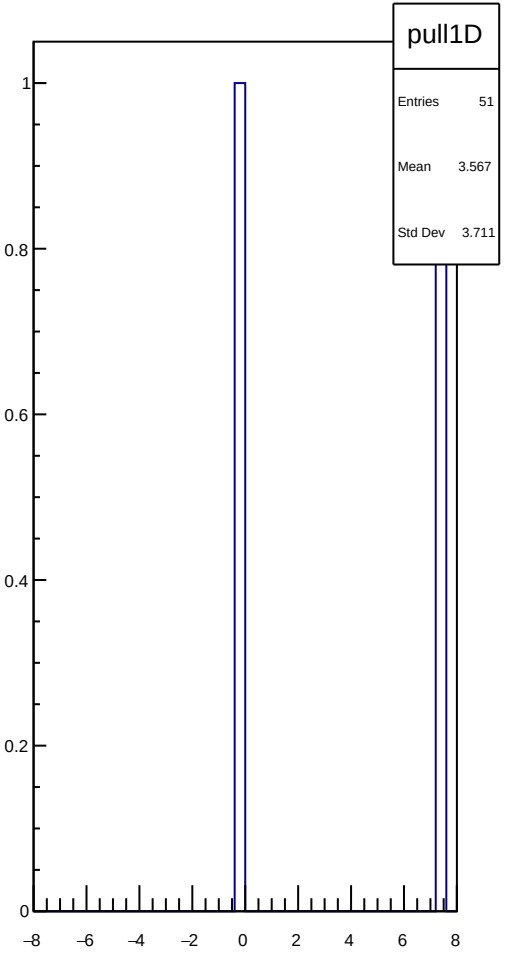

yield_cav4cQ_rms vs run
χ² / ndf 1.098e+05 / 50
p0 0.2449 ± 0.0002545
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

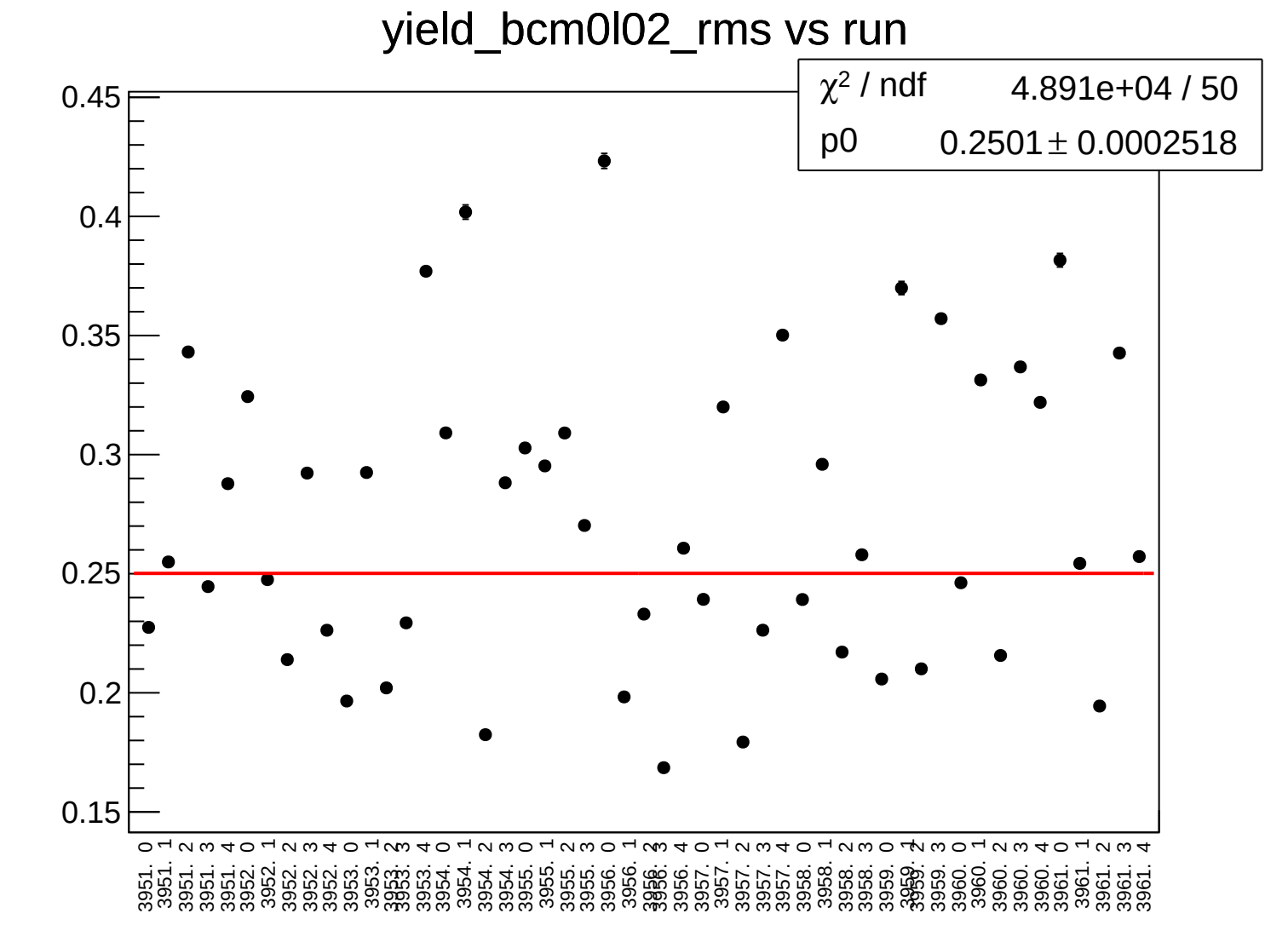

yield_cav4dQ_mean vs run
χ² / ndf 6.445e+04 / 50
p0 379 ± 9.486e−06
379.044
379.042
379.04
379.038
379.036
379.034
379.032
379.03
pull
Entries 51
Mean −2080
Std Dev 2105
120
100
80
60
40
20
0
−20
−40
−60

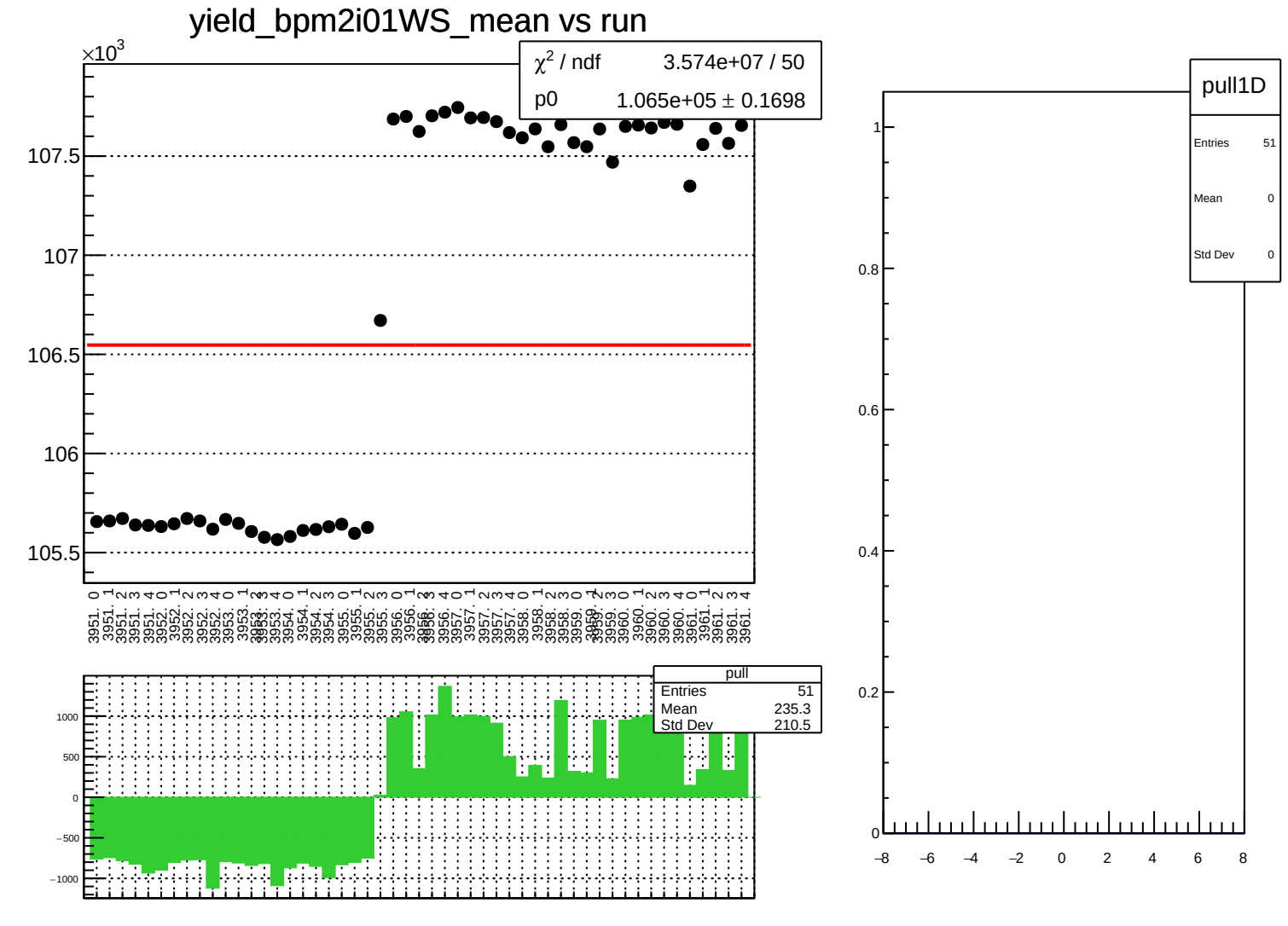

pull1D
Entries 51
Mean 0.5635
Std Dev 4.513
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

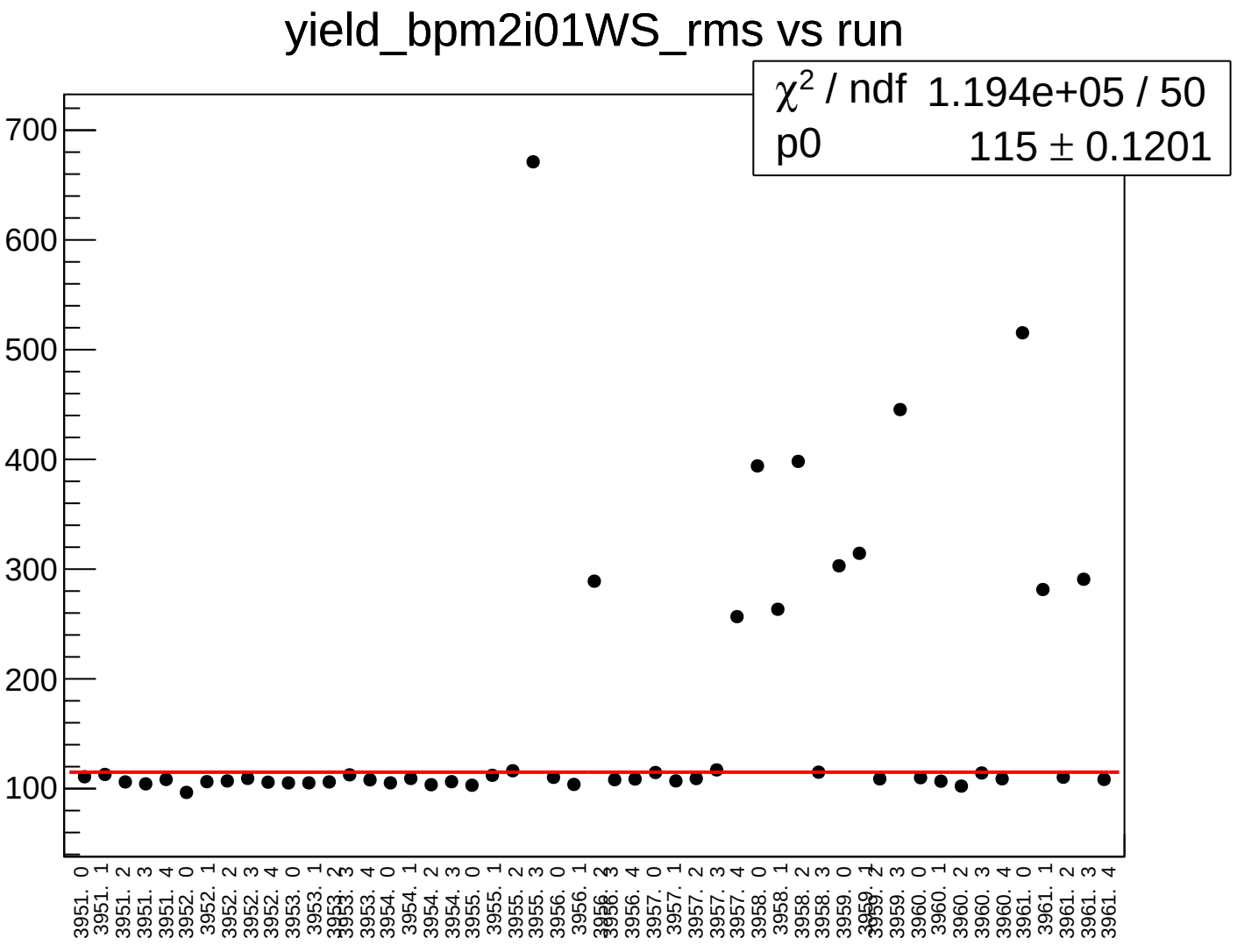

yield_cav4dQ_rms vs run
χ² / ndf 832.8 / 50
p0 0.006824 ± 6.708e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

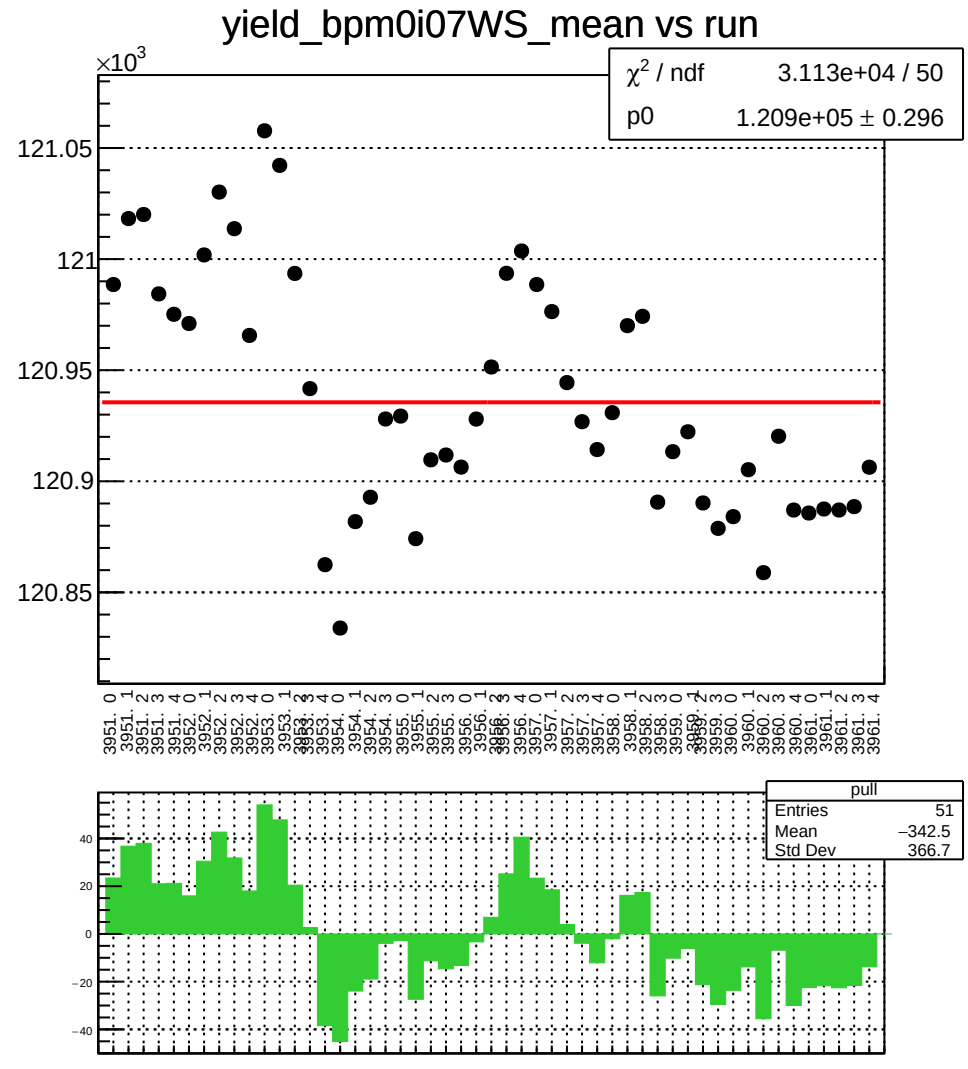

yield_bcm0l02_mean vs run
χ² / ndf 1.12e+06 / 50
p0 70.39 ± 0.0003561
71
70.8
70.6
70.4
70.2
70
69.8
69.6
pull
Entries 51
Mean −272.9
Std Dev 297.3
300
200
100
0
−100
−200
−300

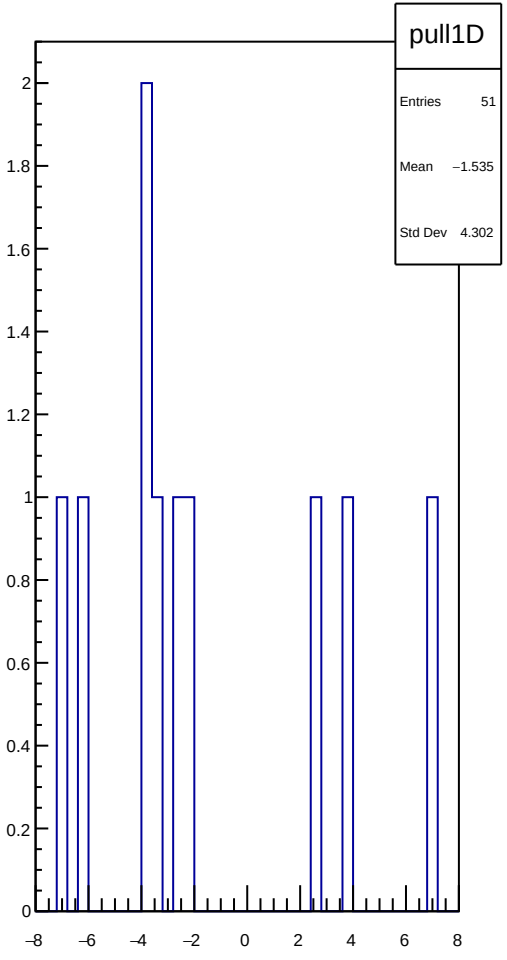

pull1D
Entries 51
Mean 3.567
Std Dev 3.711
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

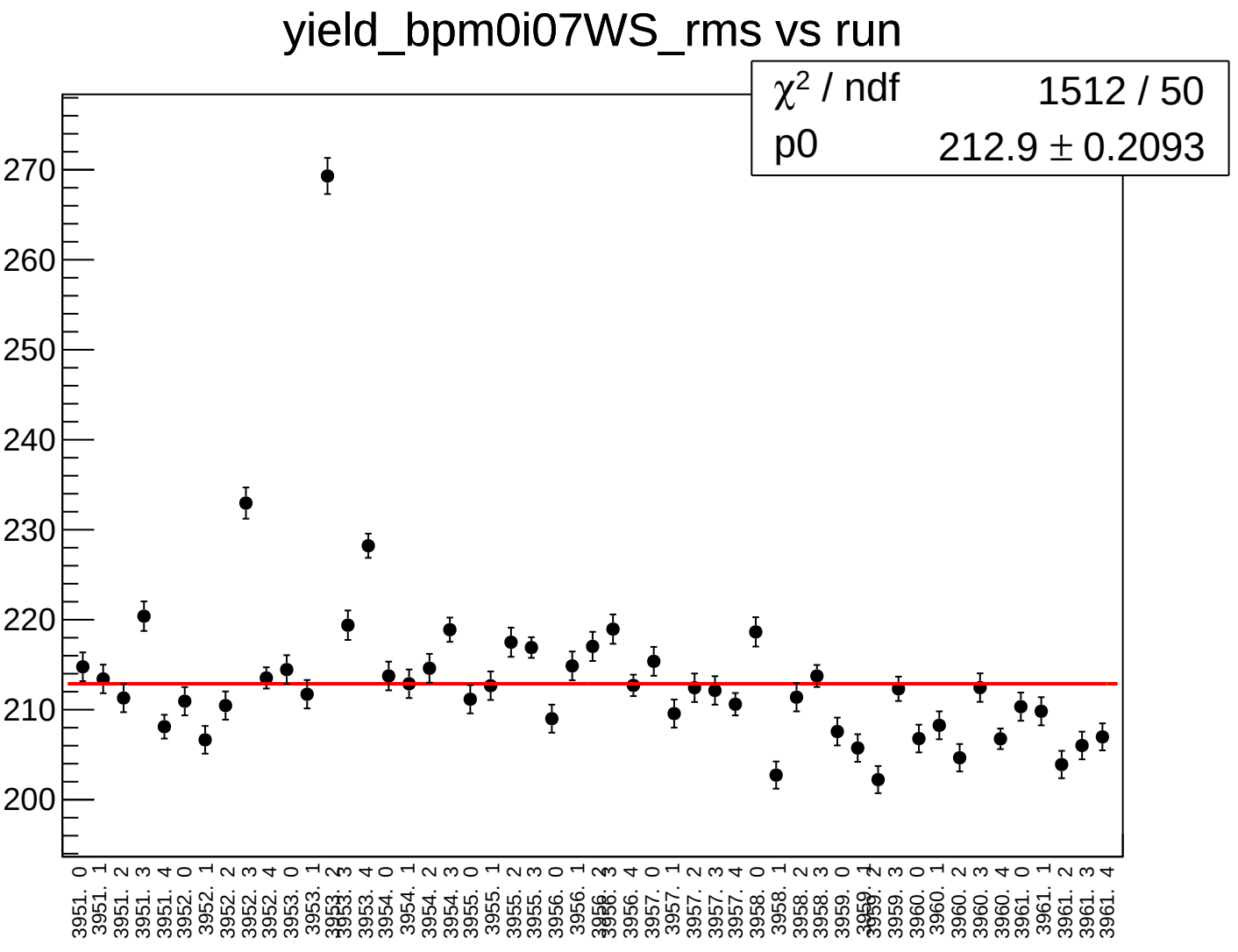

yield_bcm0l02_rms vs run
χ² / ndf 4.891e+04 / 50
p0 0.2501 ± 0.0002518
0.45
0.4
0.35
0.3
0.25
0.2
0.15
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

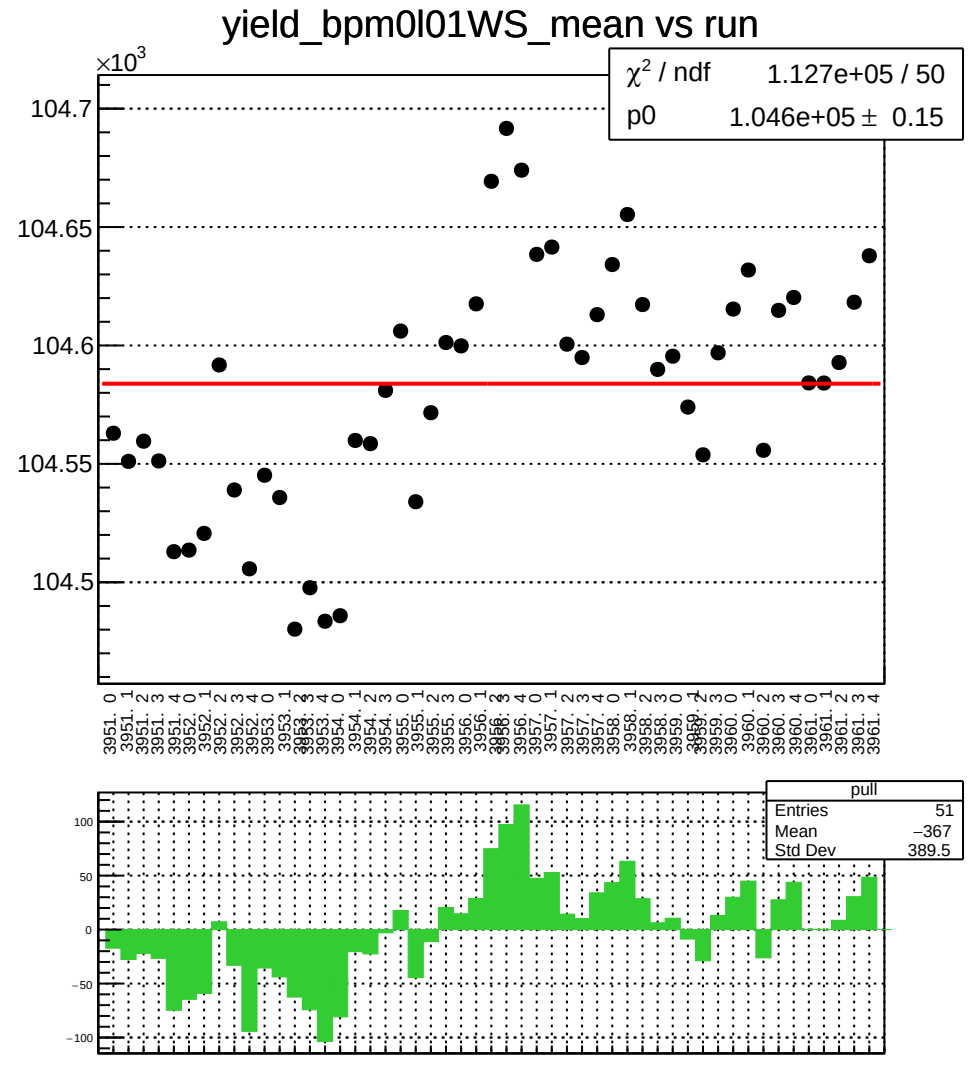

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 3.574e+07 / 50
p0 1.065e+05 ± 0.1698
107.5
107
106.5
106
105.5
pull
Entries 51
Mean 235.3
Std Dev 210.5
1000
500
0
−500
−1000
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

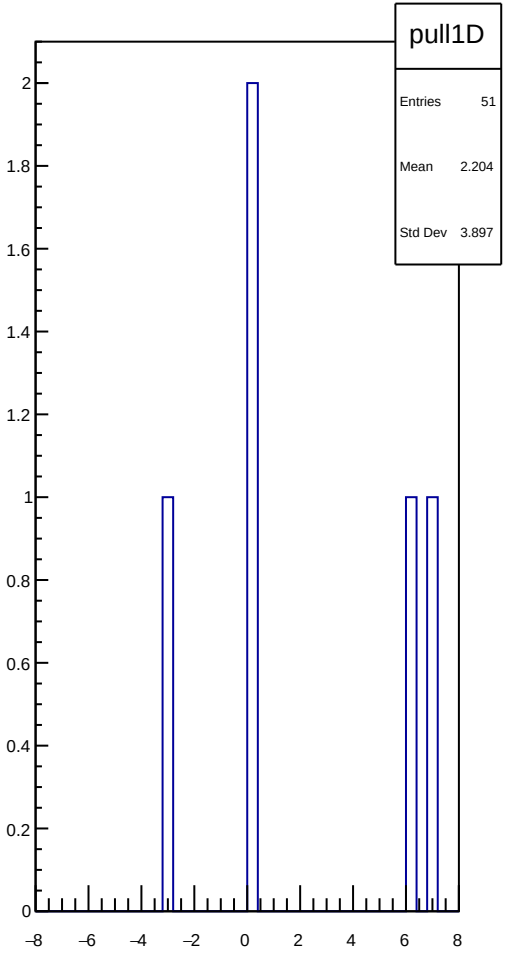

yield_bpm2i01WS_rms vs run
χ² / ndf 1.194e+05 / 50
p0 115 ± 0.1201
700
600
500
400
300
200
100
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

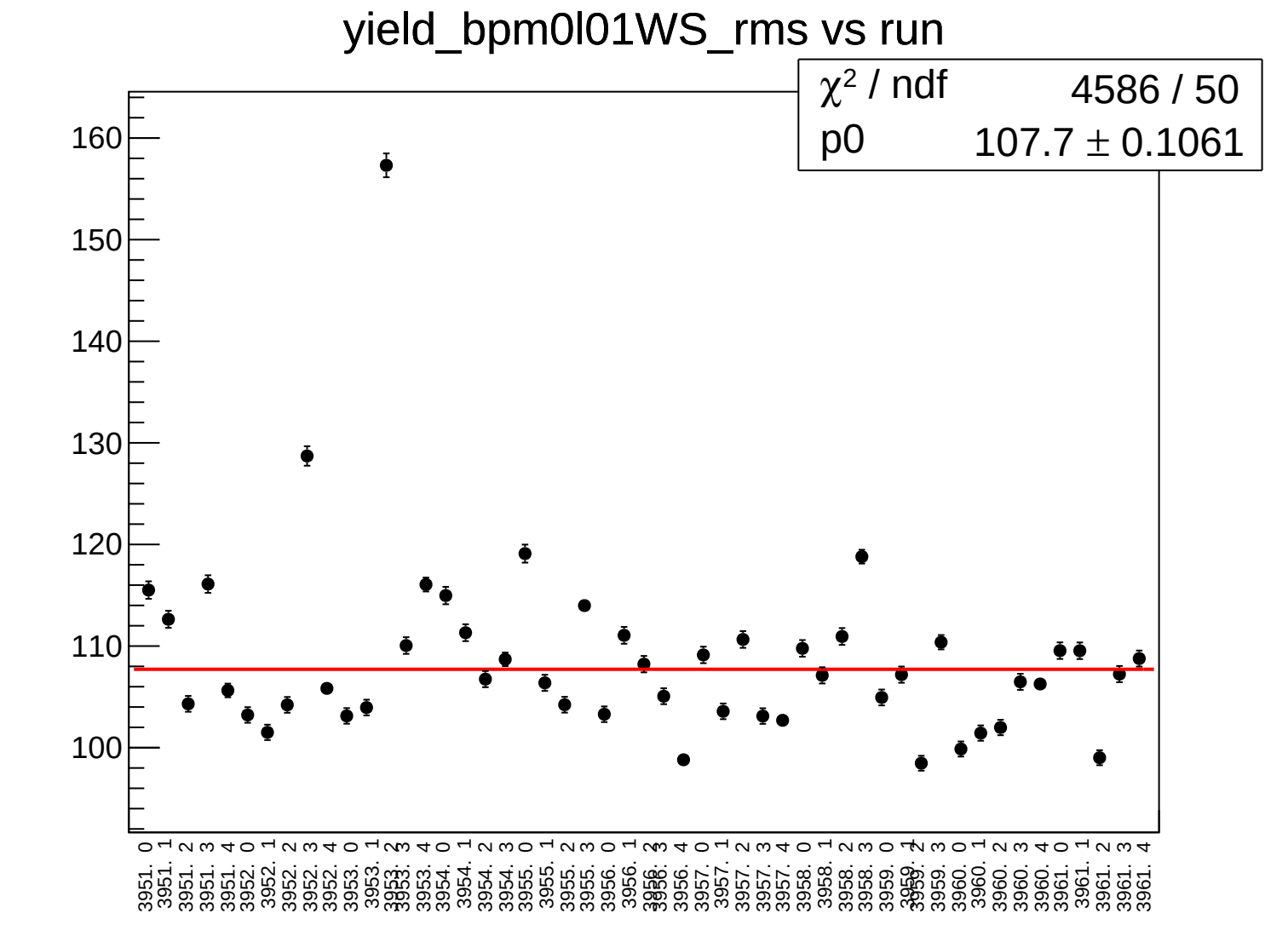

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.113e+04 / 50
p0 1.209e+05 ± 0.296
121.05
121
120.95
120.9
120.85
pull
Entries 51
Mean −342.5
Std Dev 366.7
40
20
0
−20
−40

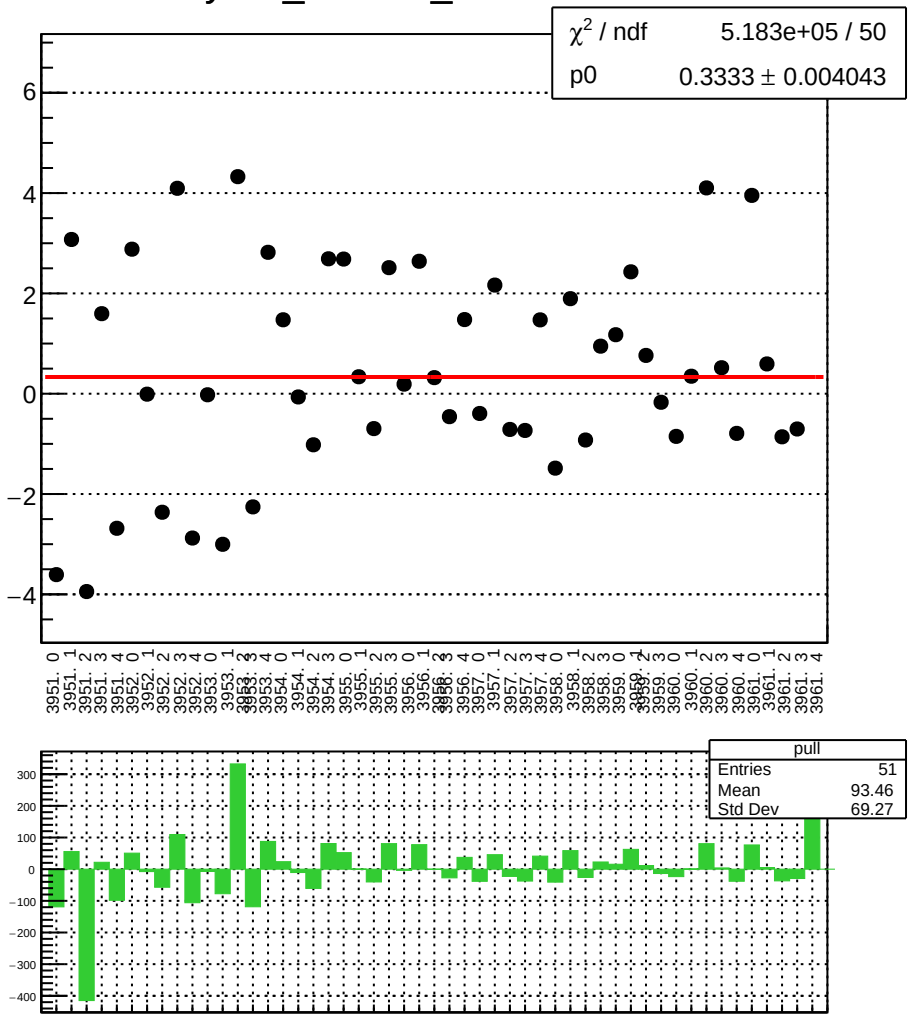

pull1D
Entries 51
Mean −1.535
Std Dev 4.302
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

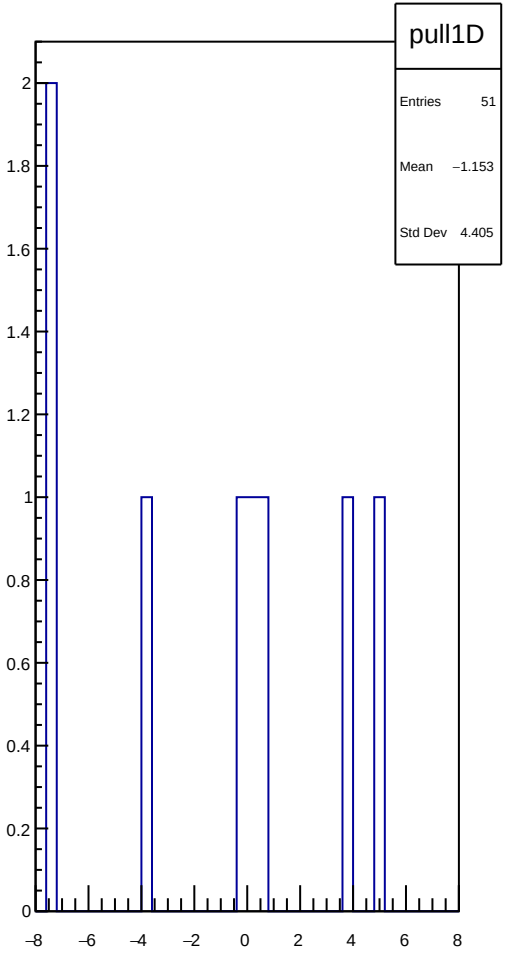

yield_bpm0i07WS_rms vs run
χ² / ndf 1512 / 50
p0 212.9 ± 0.2093
270
260
250
240
230
220
210
200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

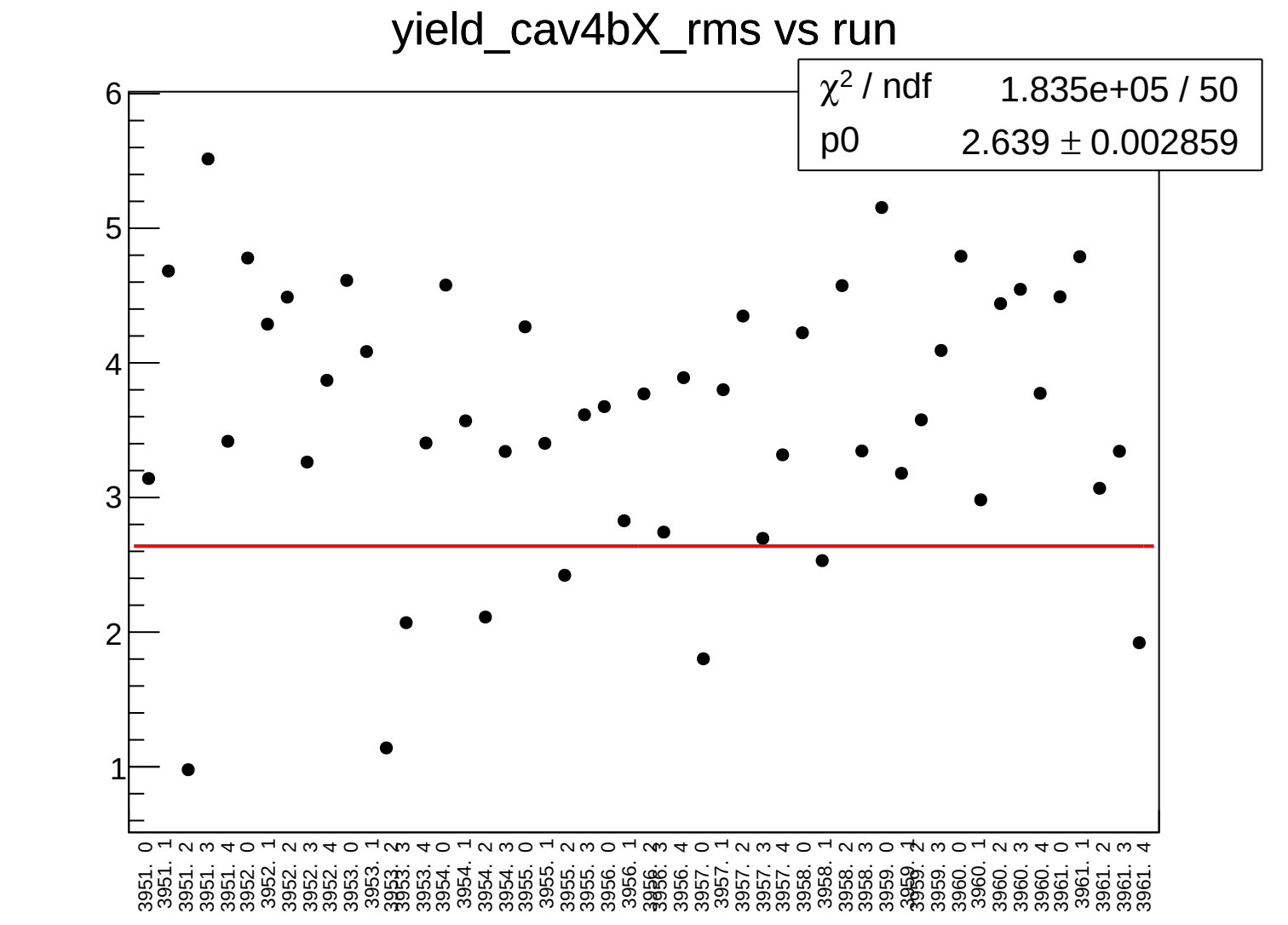

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.127e+05 / 50
p0 1.046e+05 ± 0.15
104.7
104.65
104.6
104.55
104.5
pull
Entries 51
Mean −367
Std Dev 389.5
100
50
0
−50
−100

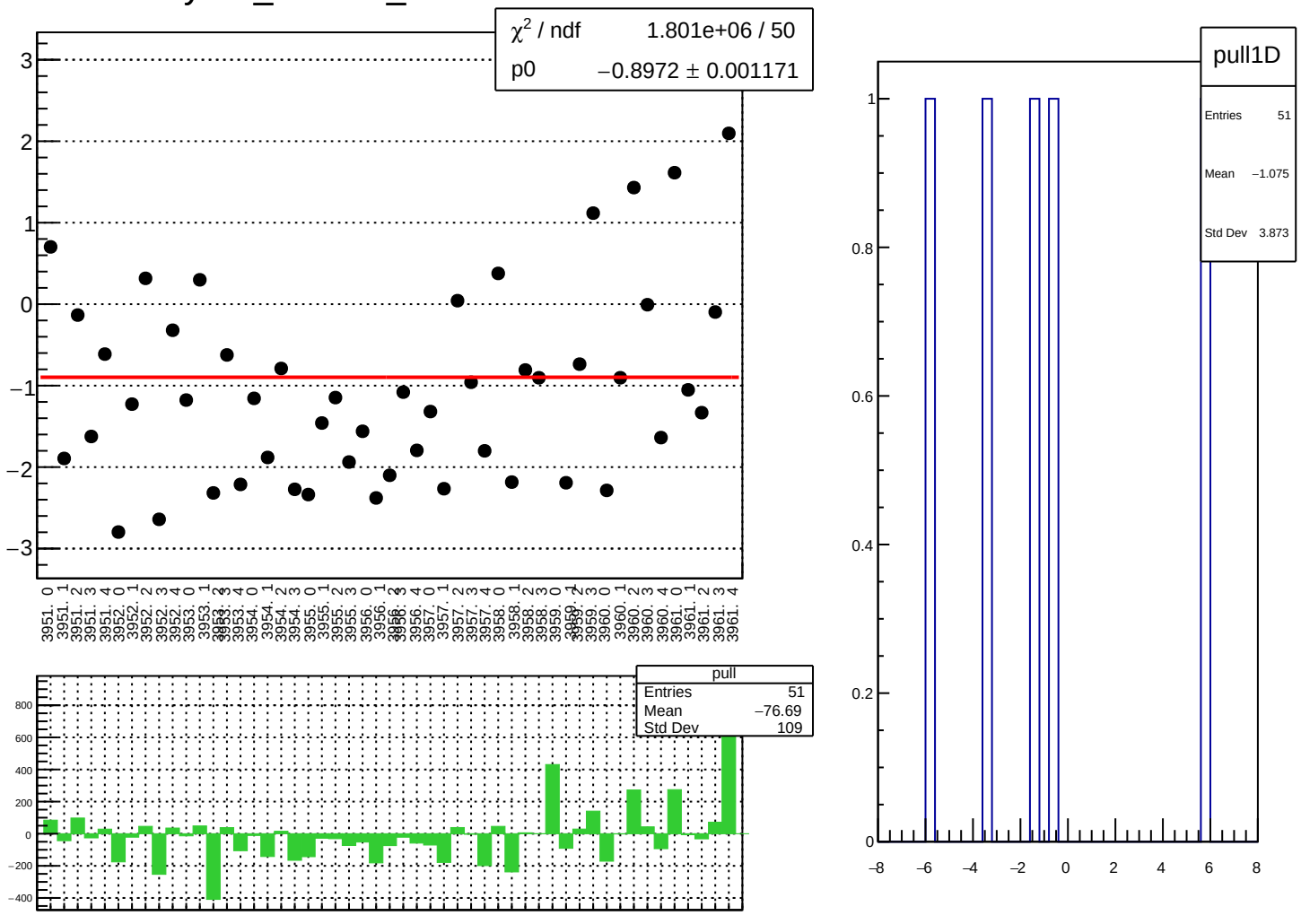

pull1D
Entries 51
Mean 2.204
Std Dev 3.897
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

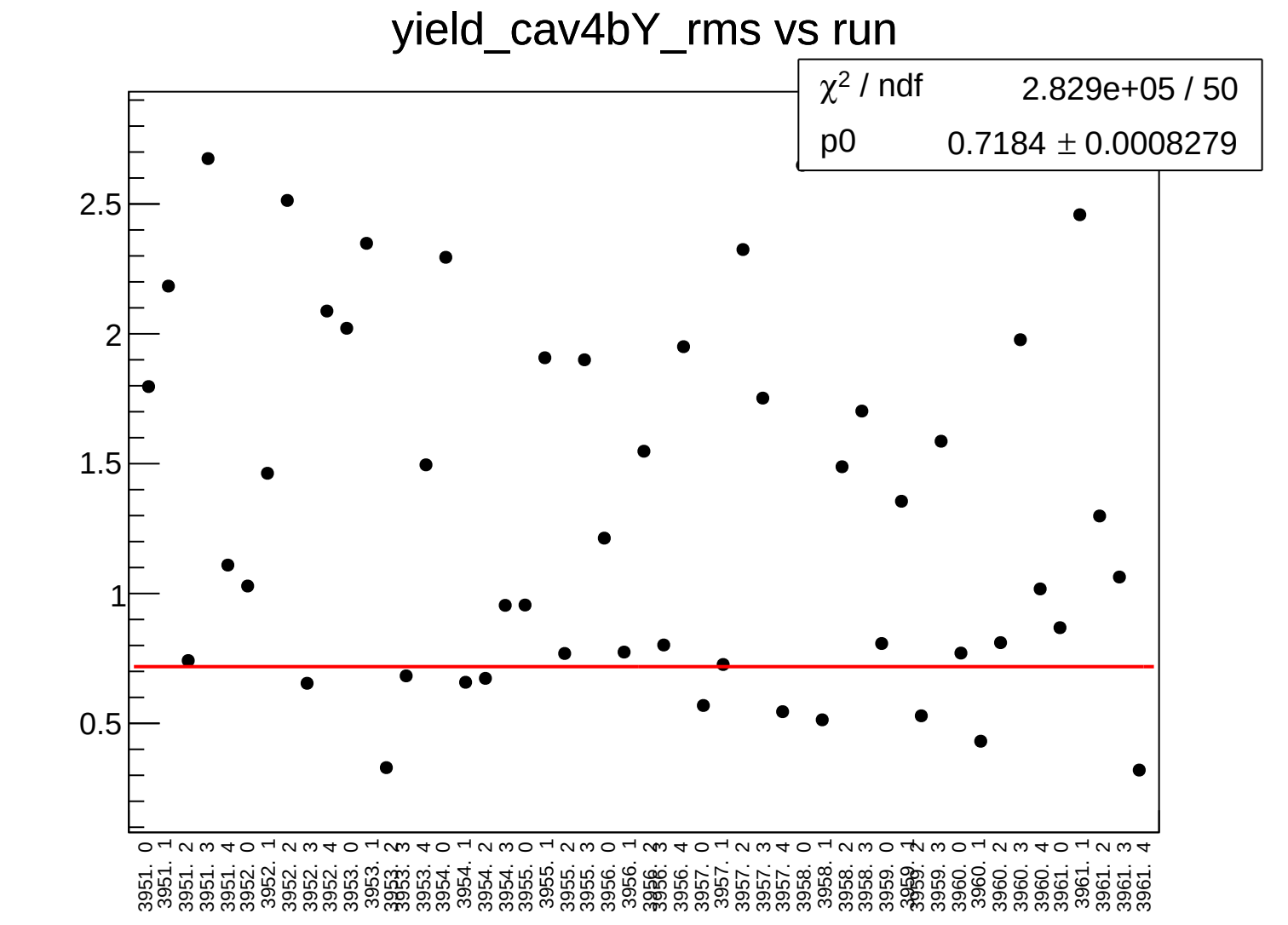

yield_bpm0l01WS_rms vs run
χ² / ndf 4586 / 50
p0 107.7 ± 0.1061
160
150
140
130
120
110
100
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

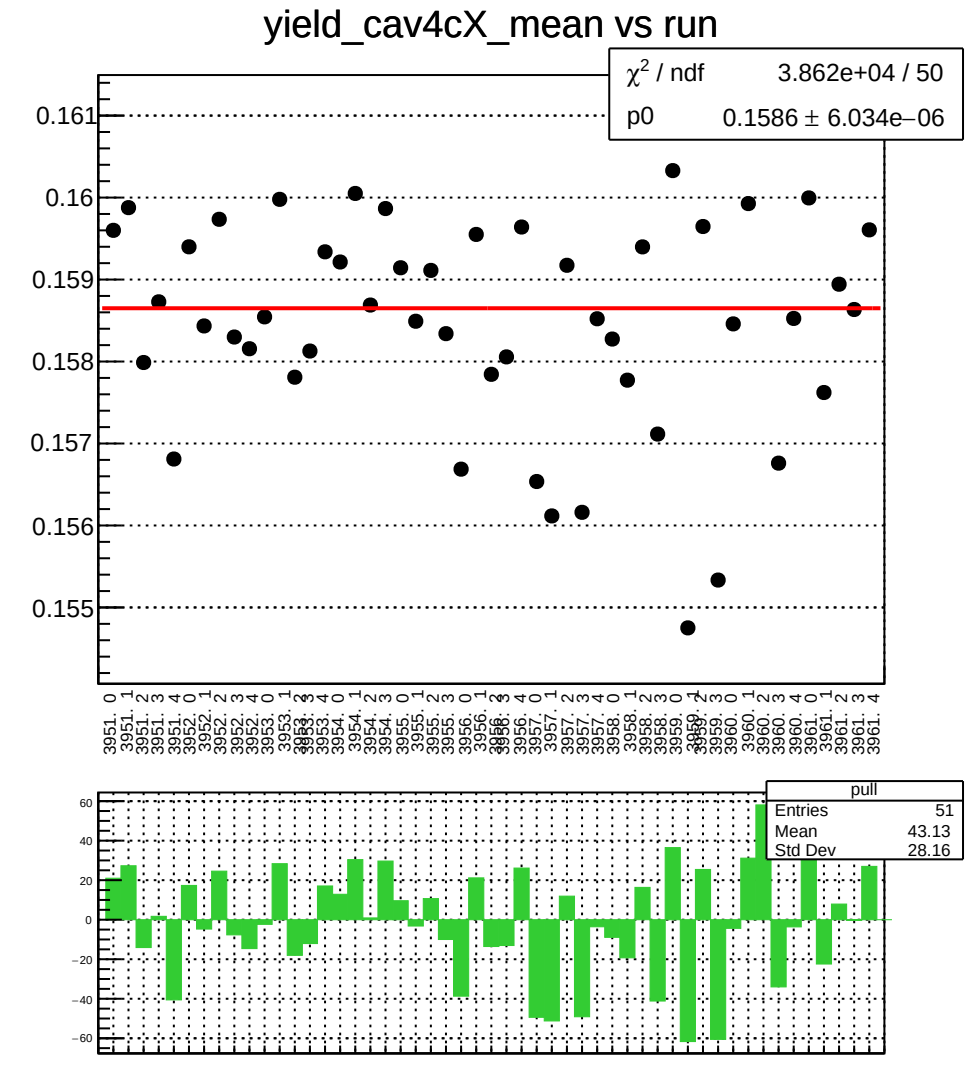

yield_cav4bX_mean vs run
χ² / ndf 5.183e+05 / 50
p0 0.3333 ± 0.004043
pull
Entries 51
Mean 93.46
Std Dev 69.27

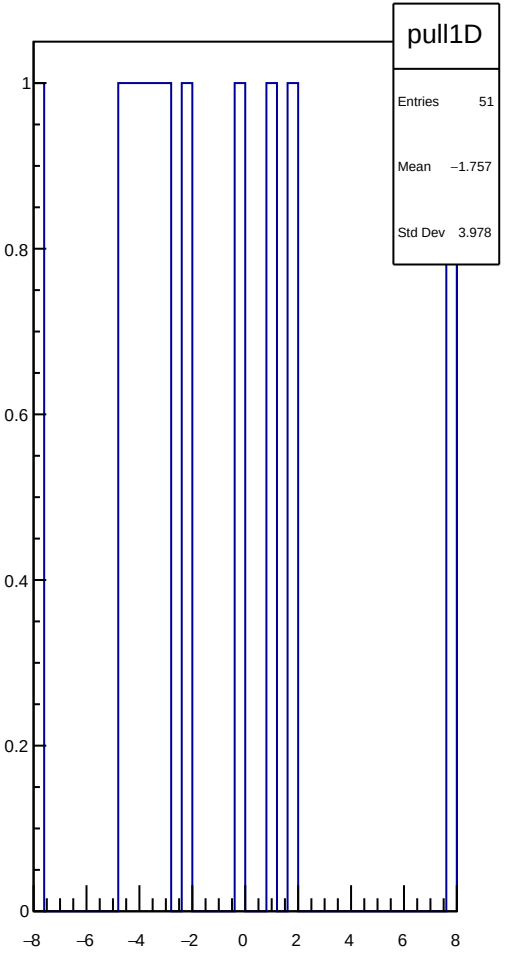

pull1D
Entries 51
Mean −1.153
Std Dev 4.405

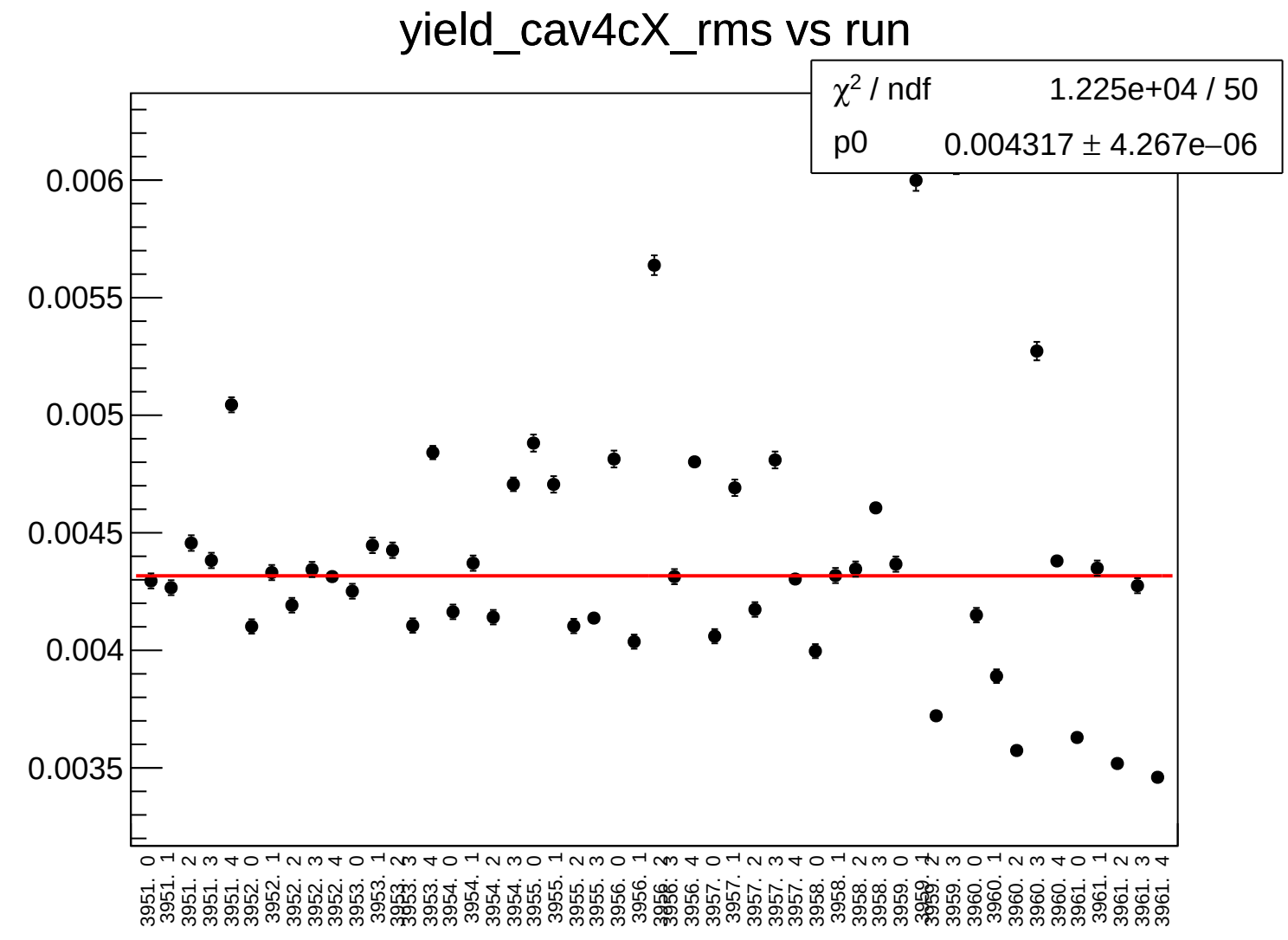

yield_cav4bX_rms vs run
χ² / ndf 1.835e+05 / 50
p0 2.639 ± 0.002859
6
5
4
3
2
1
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

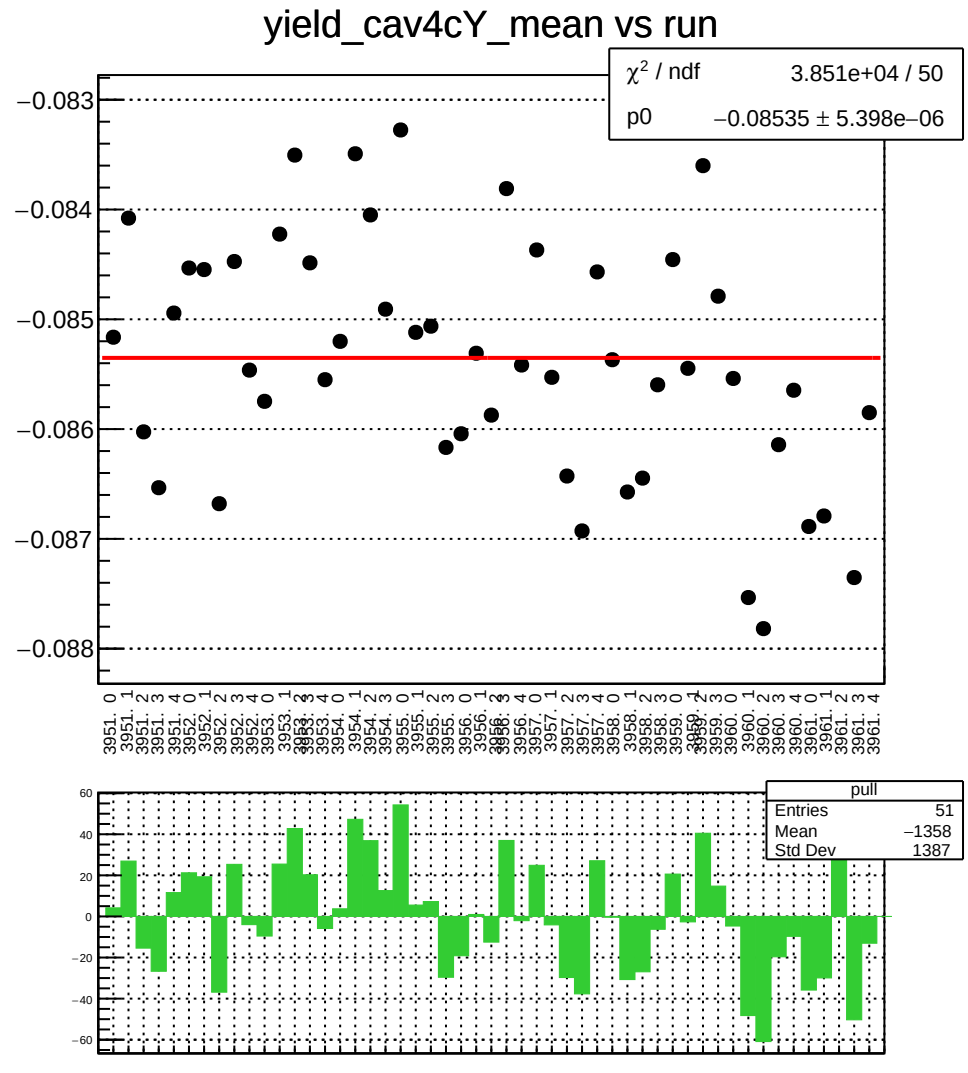

yield_cav4bY_mean vs run
χ² / ndf 1.801e+06 / 50
p0 −0.8972 ± 0.001171
pull
Entries 51
Mean −76.69
Std Dev 109
pull1D
Entries 51
Mean −1.075
Std Dev 3.873

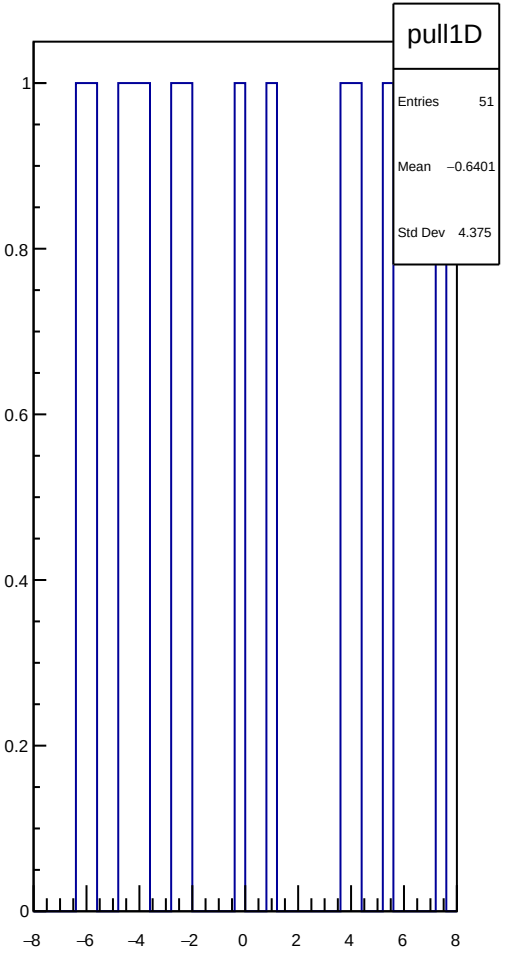

yield_cav4bY_rms vs run
χ² / ndf 2.829e+05 / 50
p0 0.7184 ± 0.0008279
2.5
2
1.5
1
0.5
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

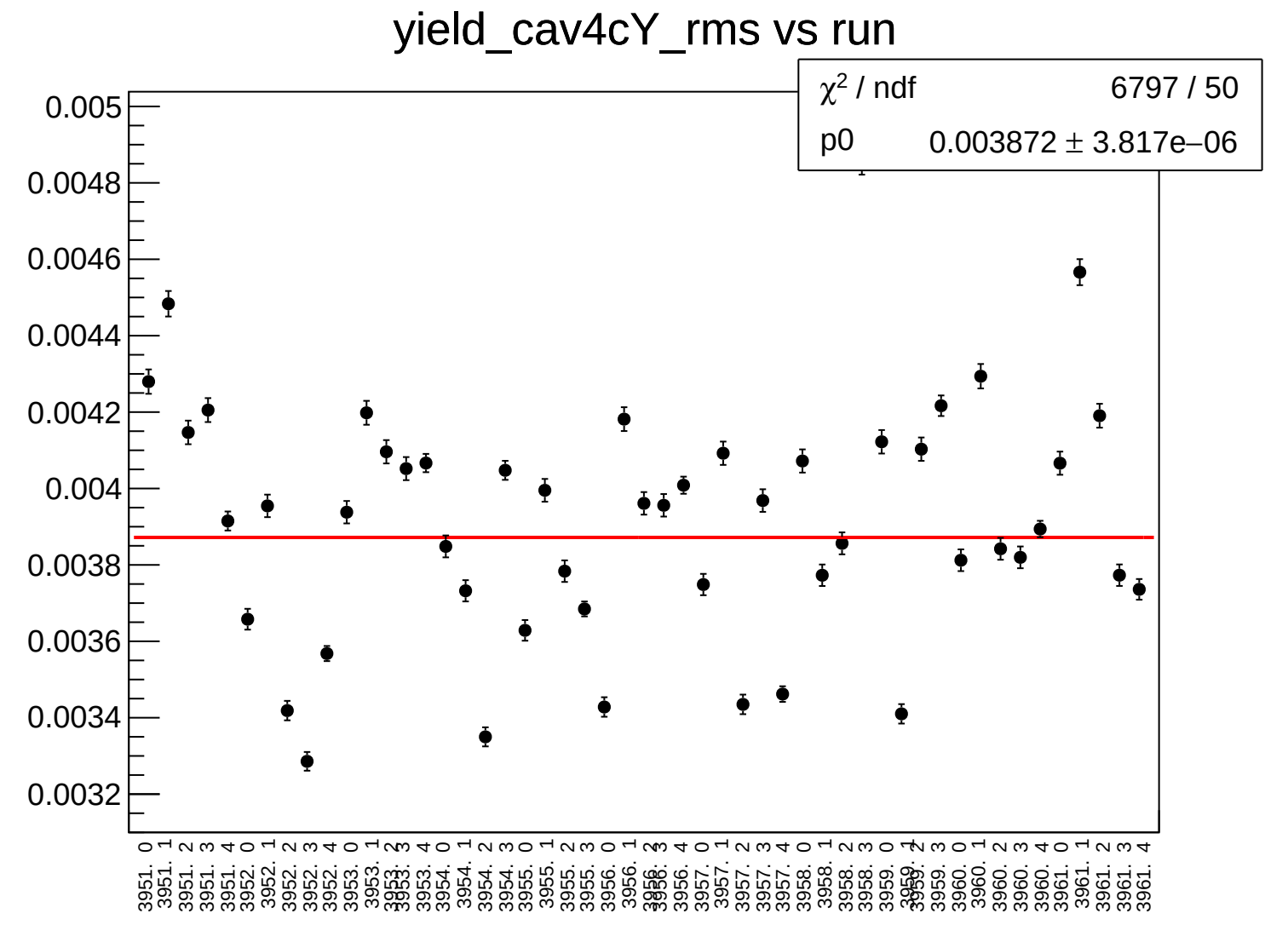

yield_cav4cX_mean vs run
χ² / ndf 3.862e+04 / 50
p0 0.1586 ± 6.034e−06
0.161
0.16
0.159
0.158
0.157
0.156
0.155
pull
Entries 51
Mean 43.13
Std Dev 28.16
60
40
20
0
−20
−40
−60


pull1D
Entries 51
Mean −1.757
Std Dev 3.978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cX_rms vs run
χ² / ndf 1.225e+04 / 50
p0 0.004317 ± 4.267e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


yield_cav4cY_mean vs run
χ² / ndf 3.851e+04 / 50
p0 −0.08535 ± 5.398e−06
−0.083
−0.084
−0.085
−0.086
−0.087
−0.088
pull
Entries 51
Mean −1358
Std Dev 1387
60
40
20
0
−20
−40
−60


pull1D
Entries 51
Mean −0.6401
Std Dev 4.375
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cY_rms vs run
χ² / ndf 6797 / 50
p0 0.003872 ± 3.817e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
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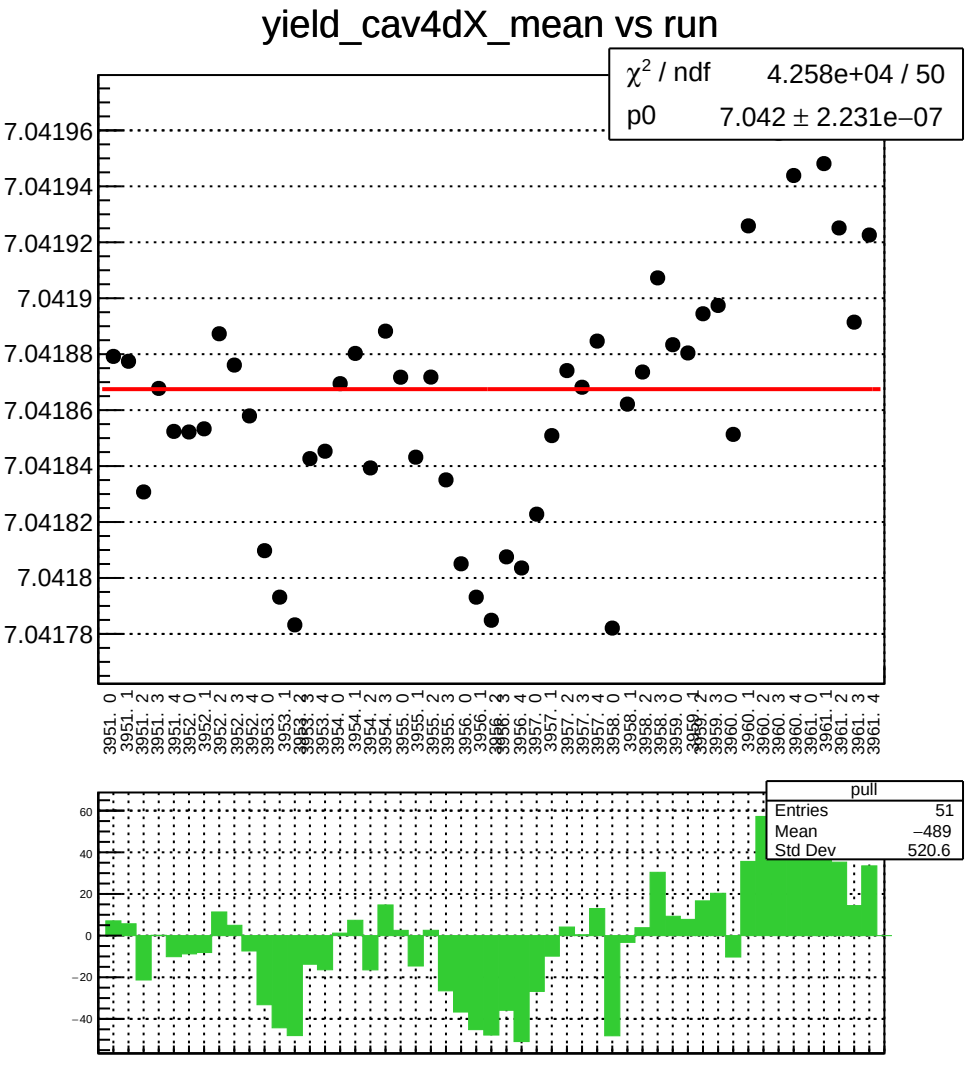
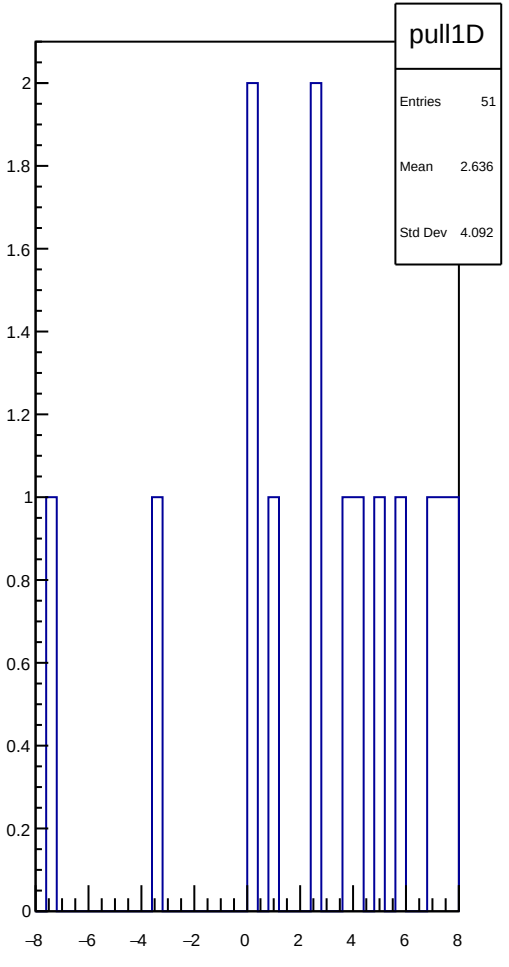
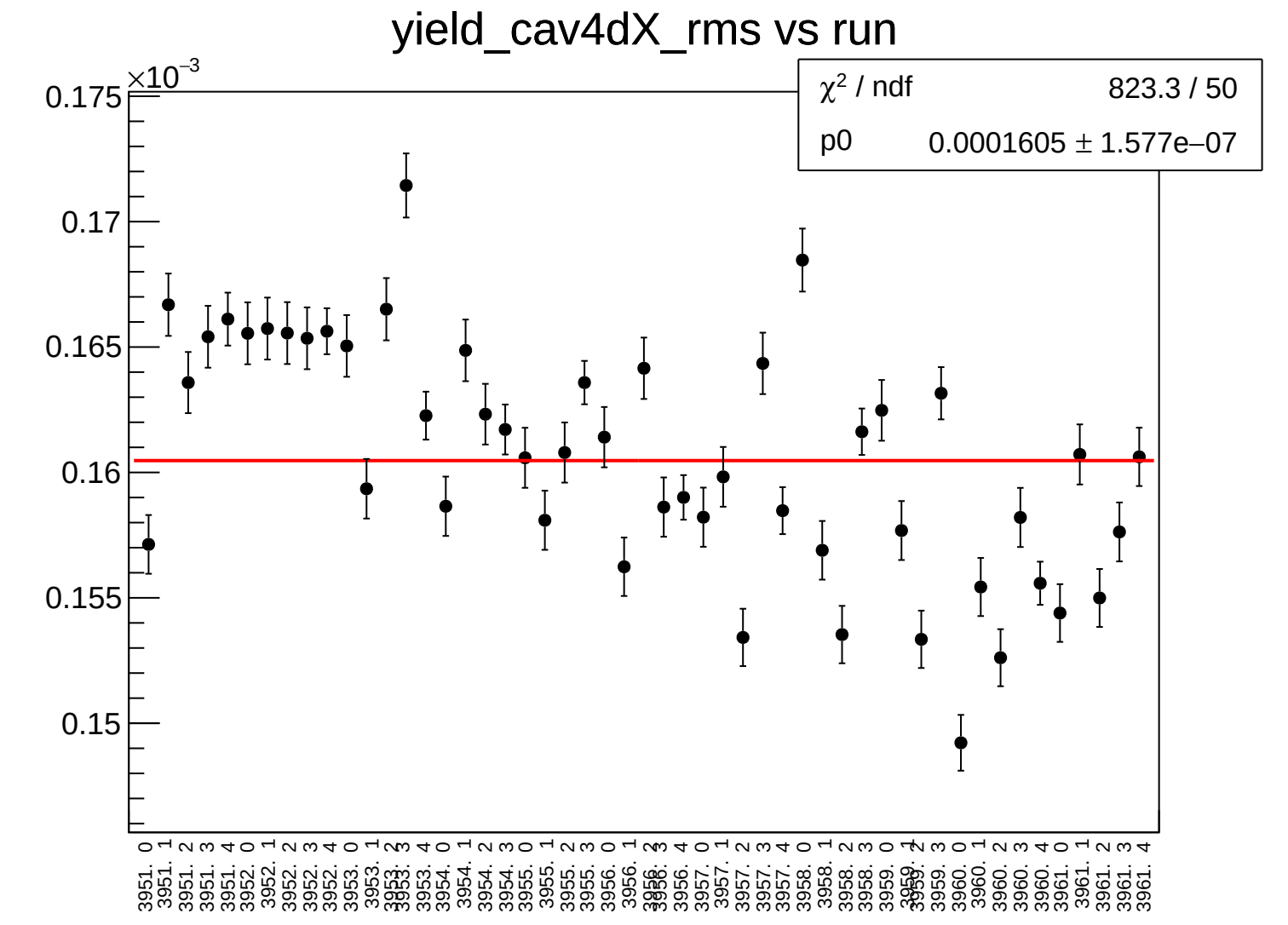
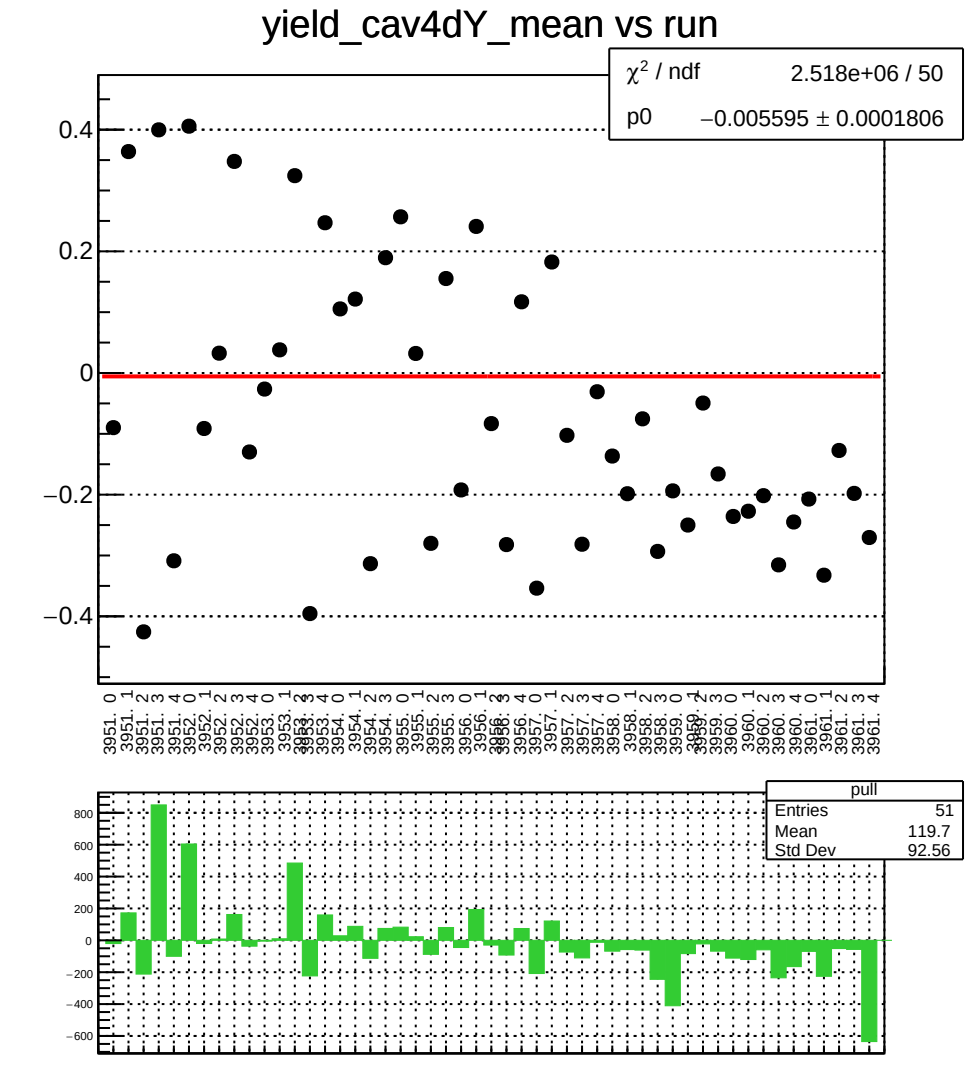
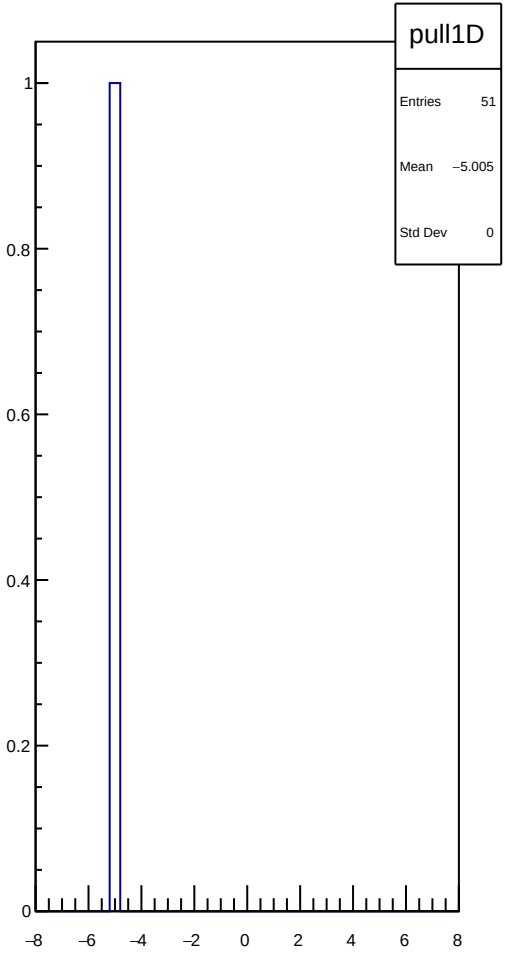
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

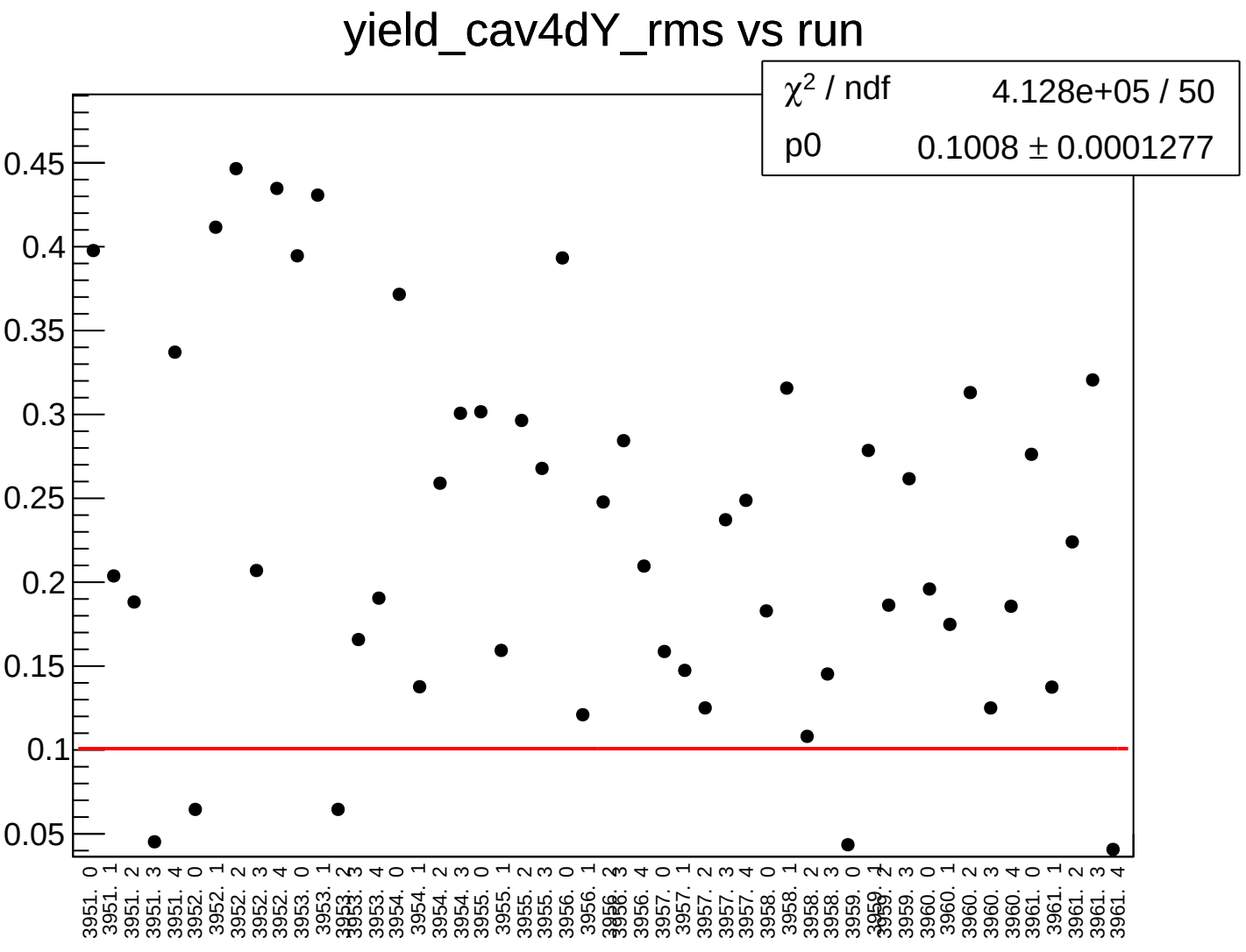

yield_cav4dX_mean vs run
χ² / ndf 4.258e+04 / 50
p0 7.042 ± 2.231e−07
7.04196
7.04194
7.04192
7.0419
7.04188
7.04186
7.04184
7.04182
7.0418
7.04178
pull
Entries 51
Mean −489
Std Dev 520.6
60
40
20
0
−20
−40

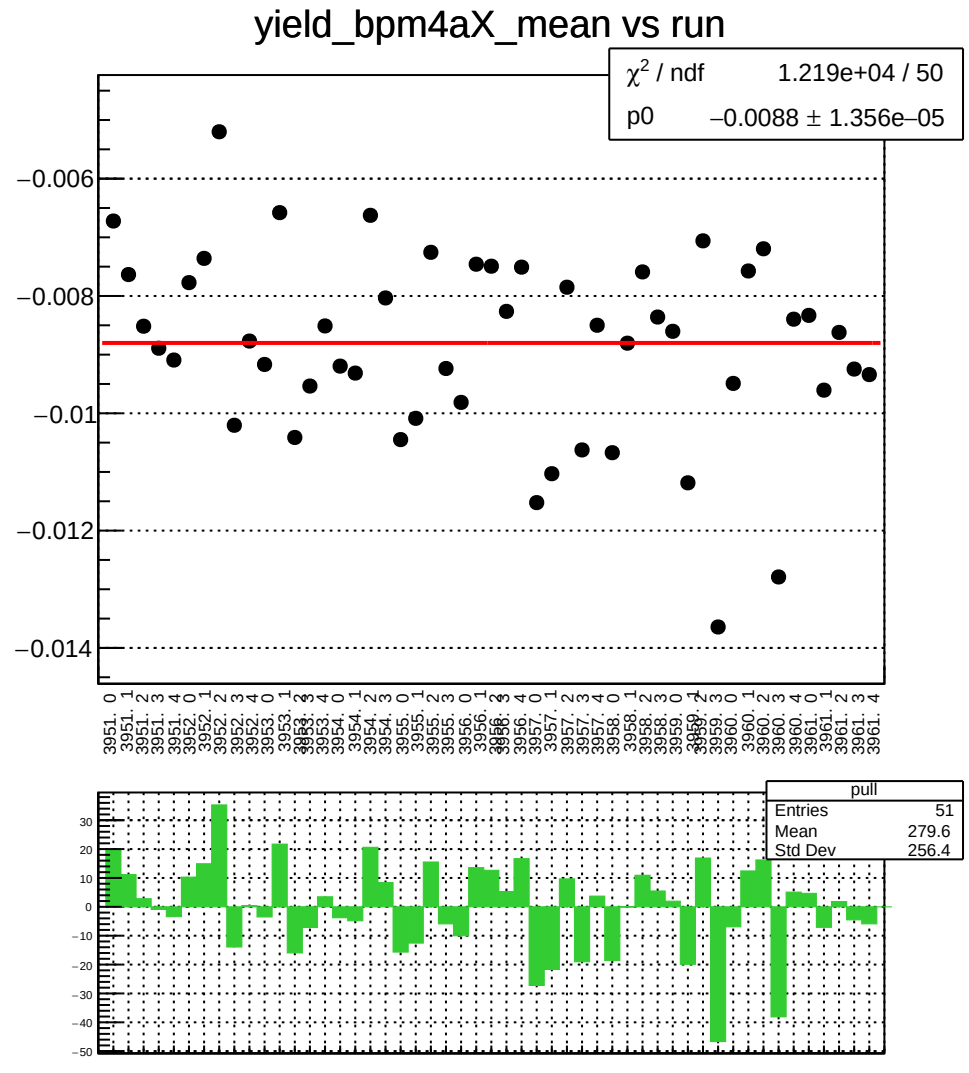

pull1D
Entries 51
Mean 2.636
Std Dev 4.092
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

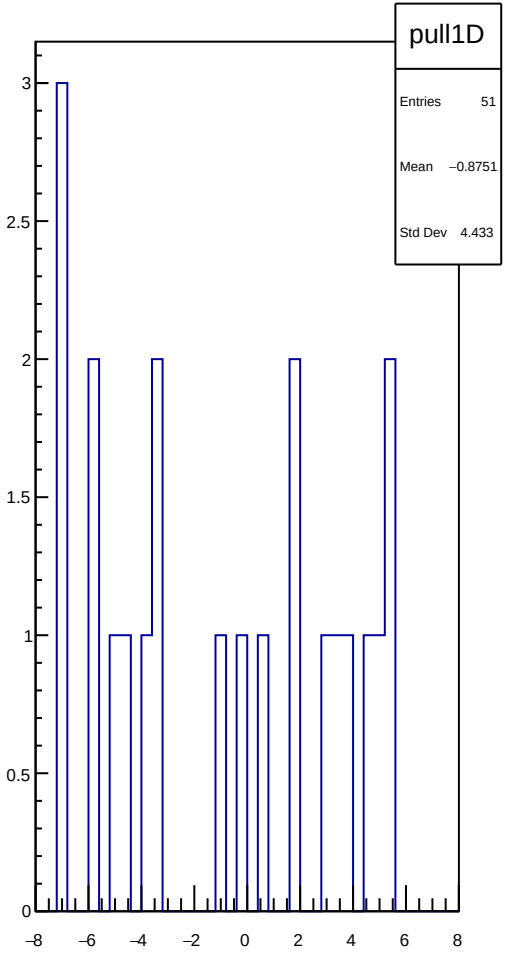

yield_cav4dX_rms vs run
×10⁻³
0.175
0.17
0.165
0.16
0.155
0.15
χ² / ndf 823.3 / 50
p0 0.0001605 ± 1.577e−07
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

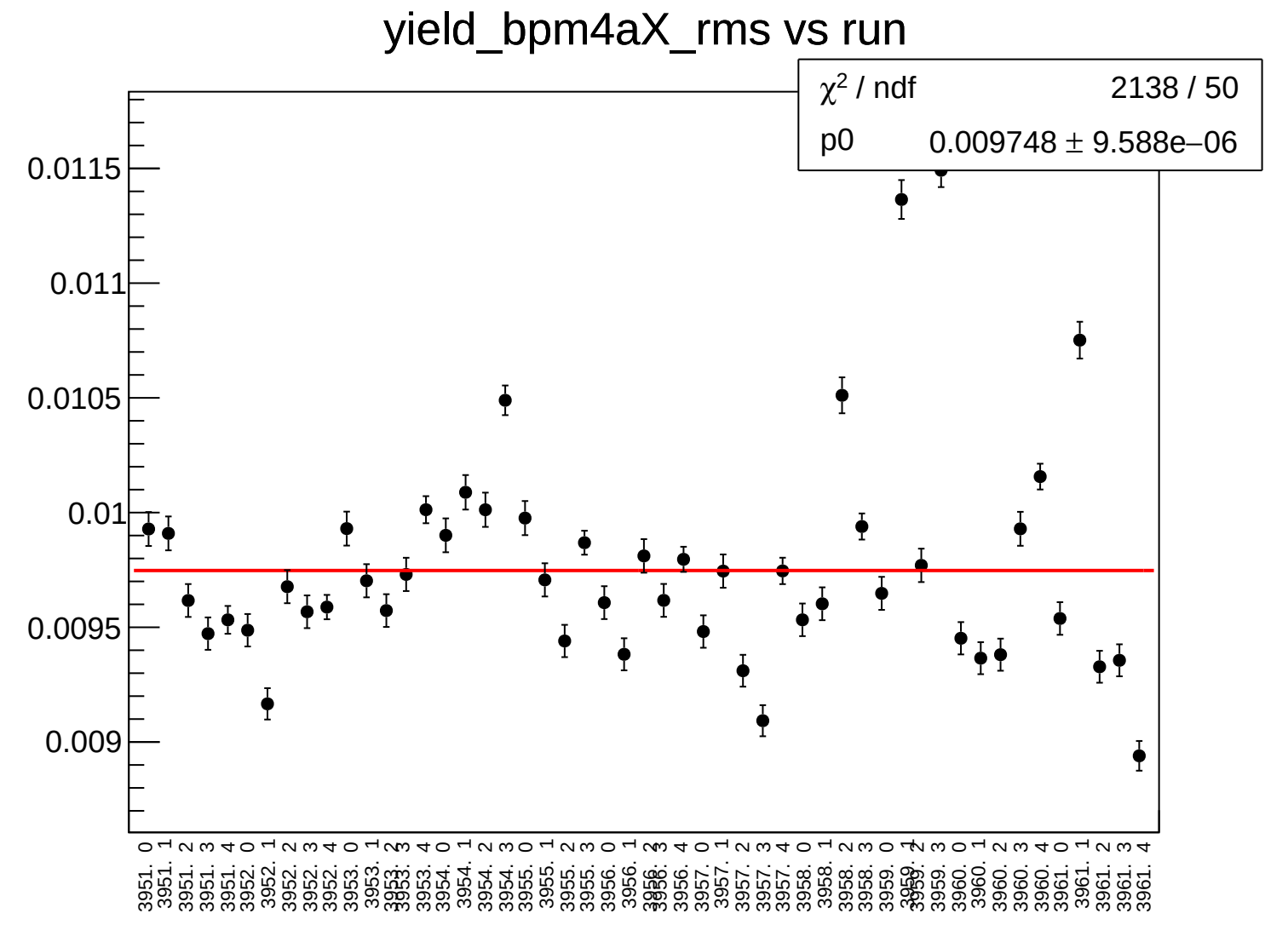

yield_cav4dY_mean vs run
χ² / ndf 2.518e+06 / 50
p0 −0.005595 ± 0.0001806
pull
Entries 51
Mean 119.7
Std Dev 92.56

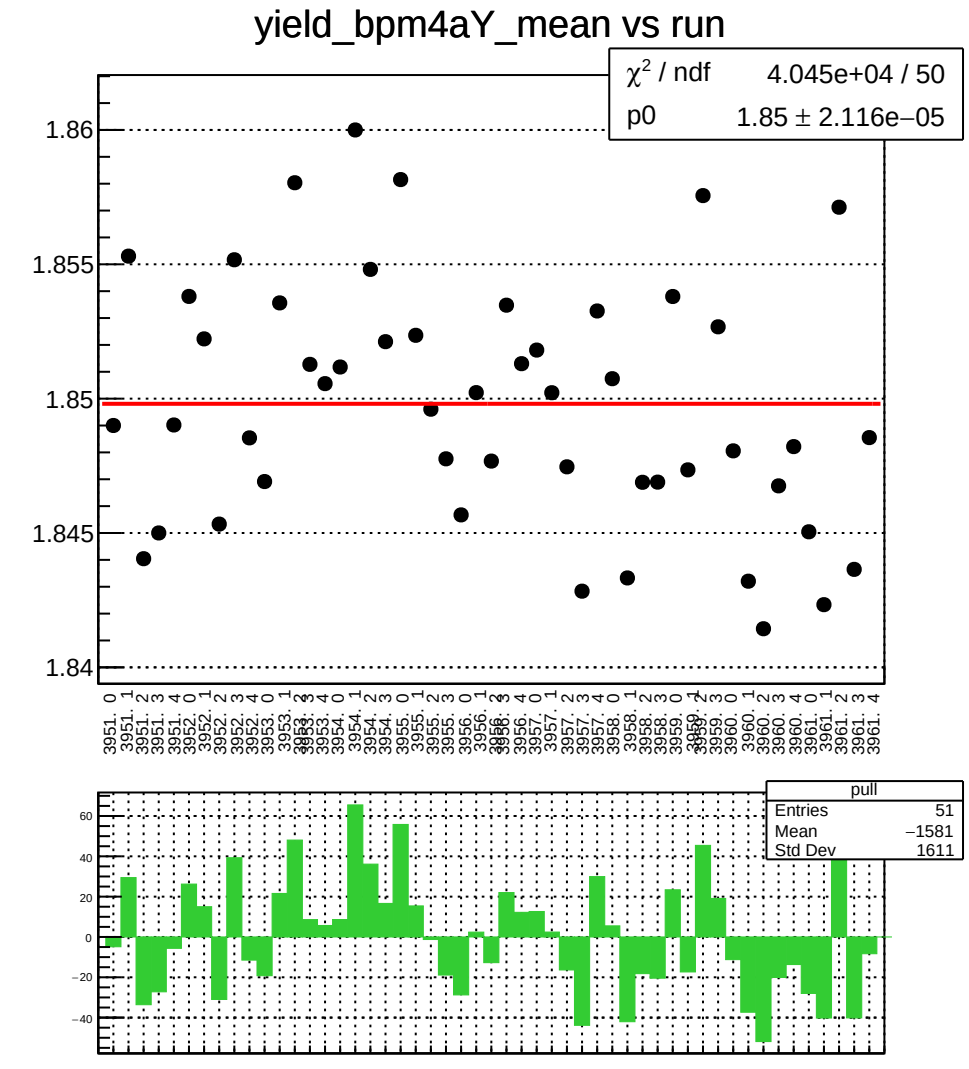

pull1D
Entries 51
Mean −5.005
Std Dev 0

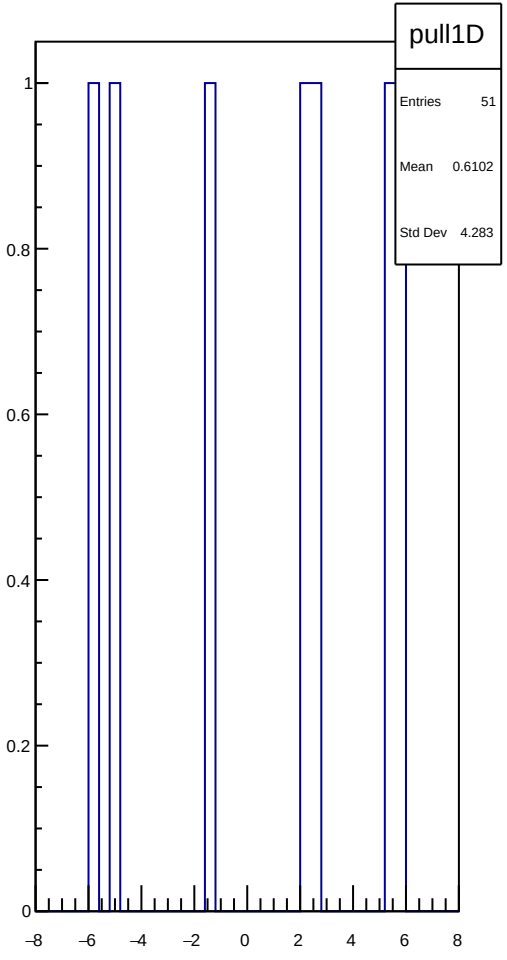

yield_cav4dY_rms vs run
χ² / ndf 4.128e+05 / 50
p0 0.1008 ± 0.0001277
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

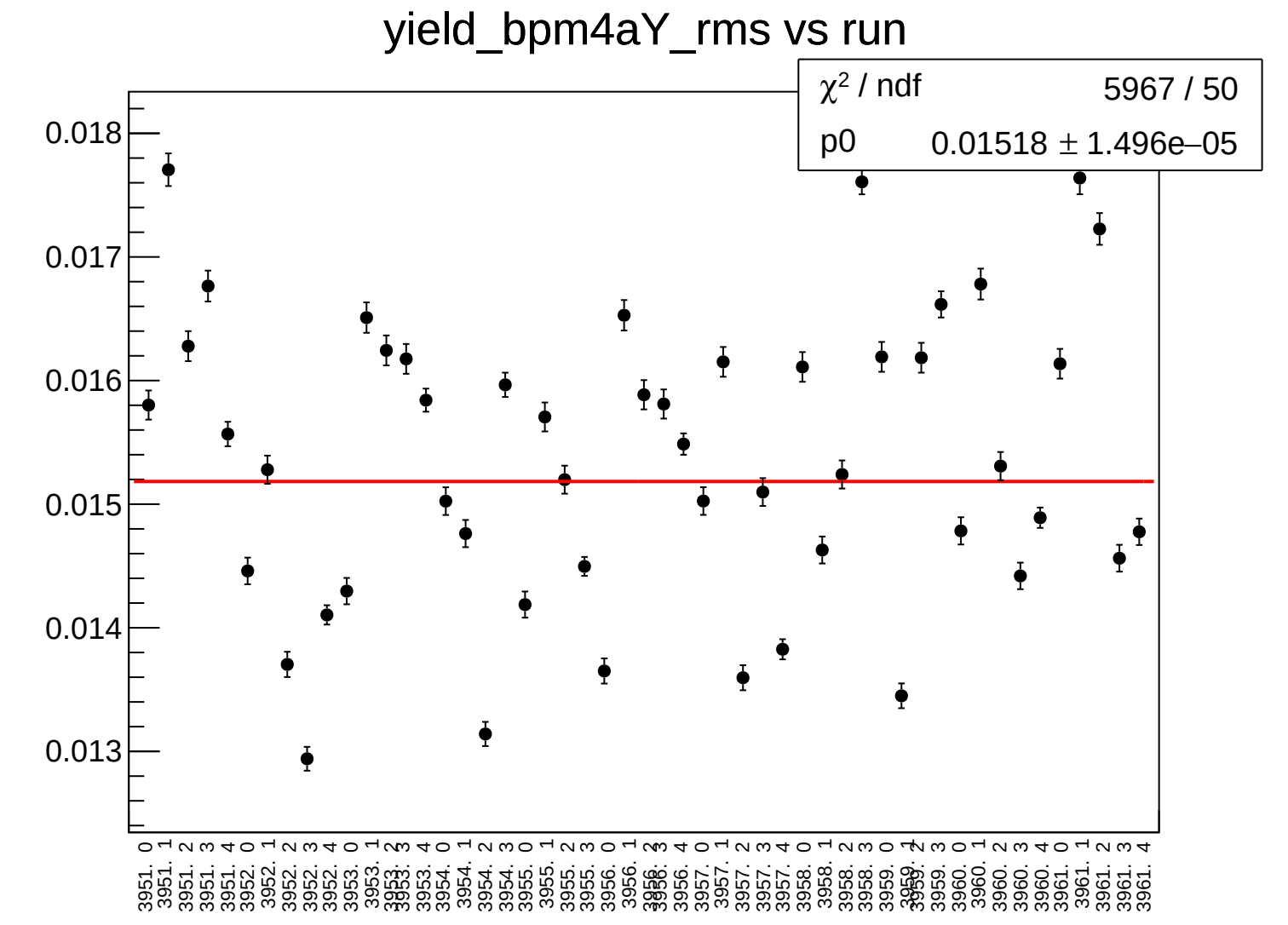

yield_bpm4aX_mean vs run
χ² / ndf 1.219e+04 / 50
p0 −0.0088 ± 1.356e−05
−0.006
−0.008
−0.01
−0.012
−0.014
pull
Entries 51
Mean 279.6
Std Dev 256.4
30
20
10
0
−10
−20
−30
−40
−50

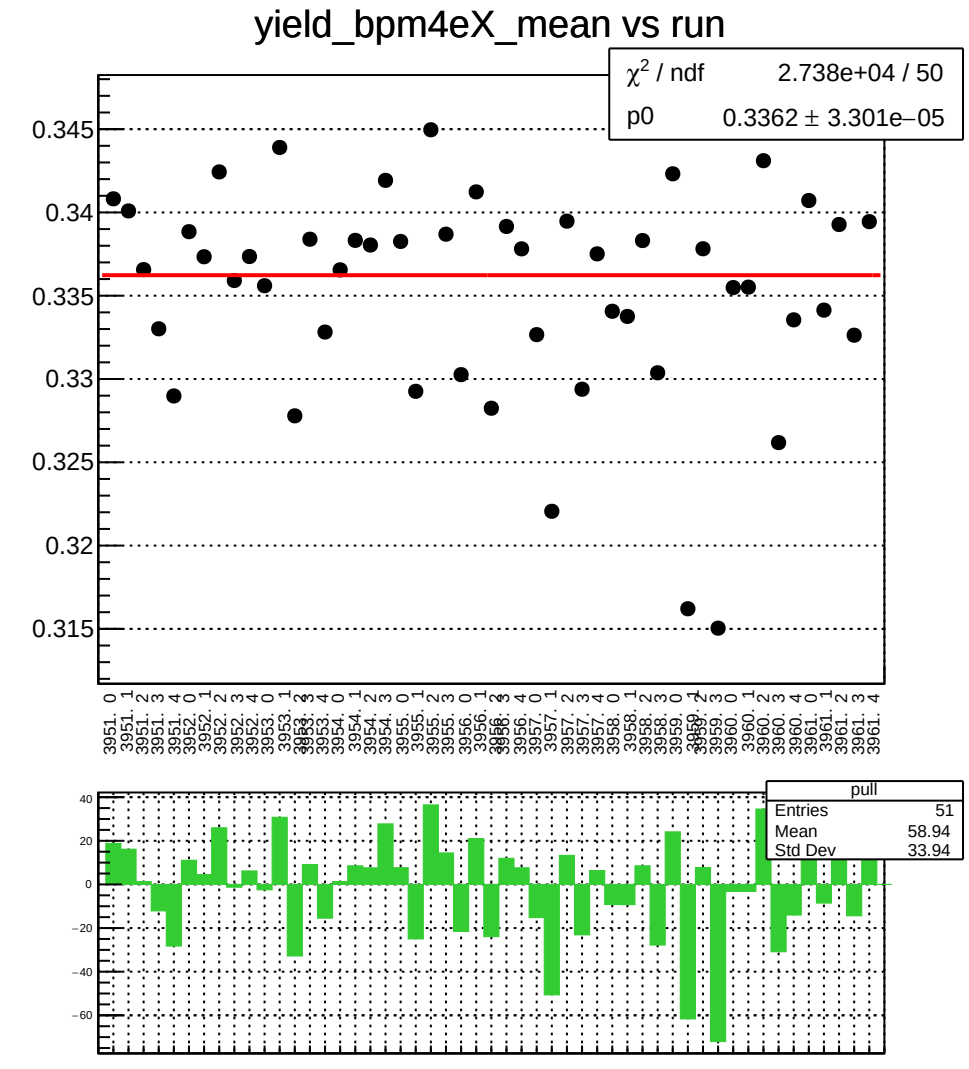

pull1D
Entries 51
Mean −0.8751
Std Dev 4.433
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

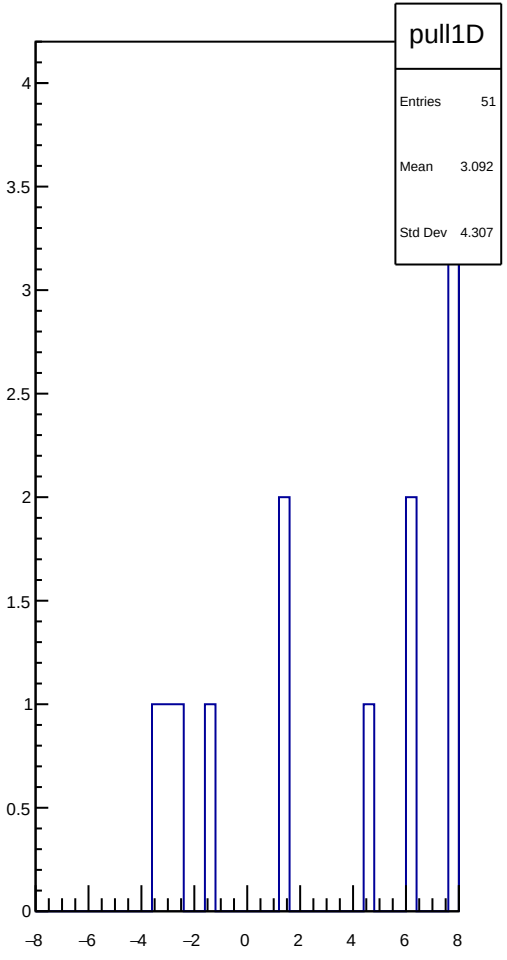

yield_bpm4aX_rms vs run
χ² / ndf 2138 / 50
p0 0.009748 ± 9.588e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

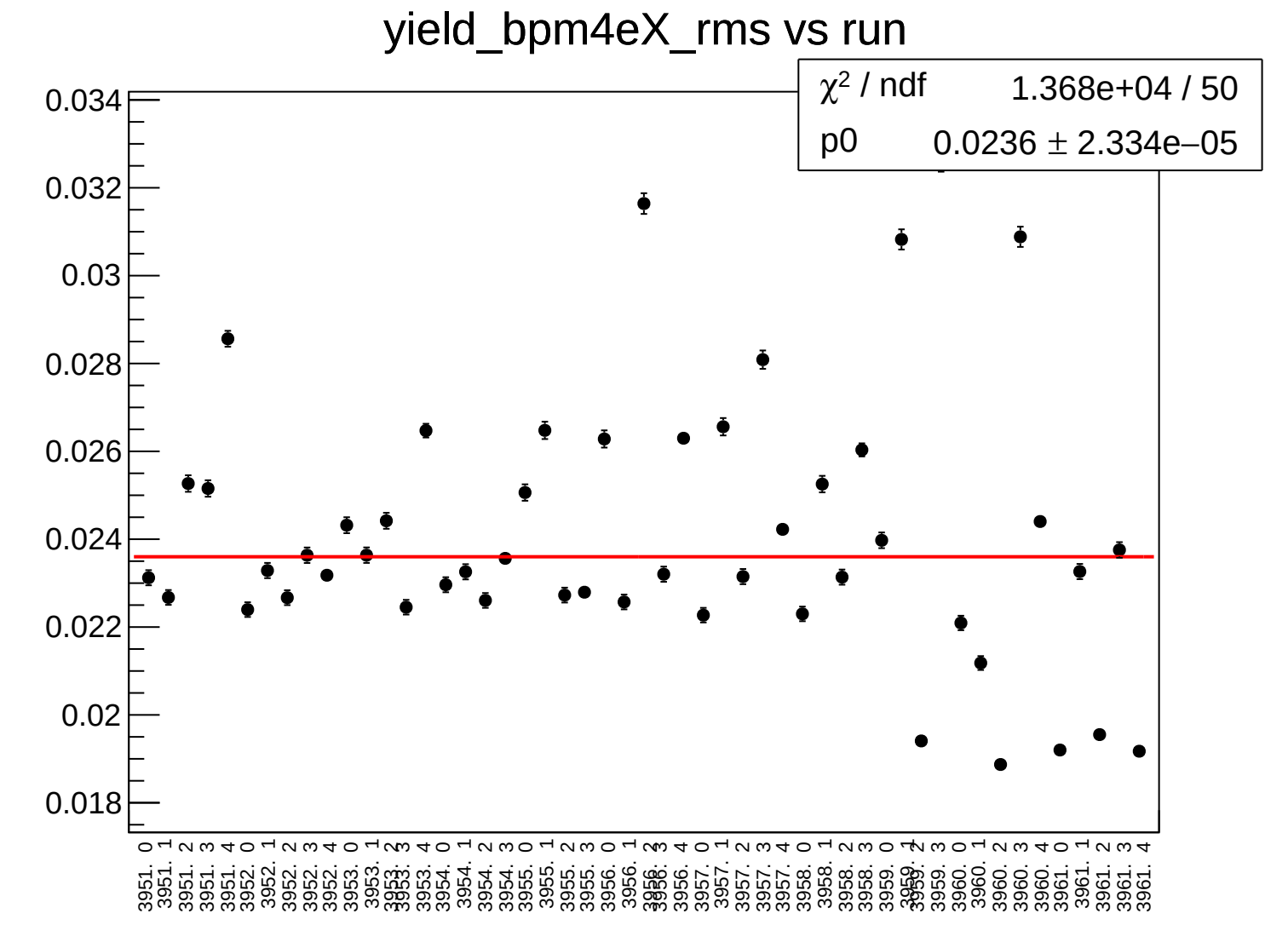

yield_bpm4aY_mean vs run
χ² / ndf 4.045e+04 / 50
p0 1.85 ± 2.116e−05
1.86
1.855
1.85
1.845
1.84
pull
Entries 51
Mean −1581
Std Dev 1611
60
40
20
0
−20
−40

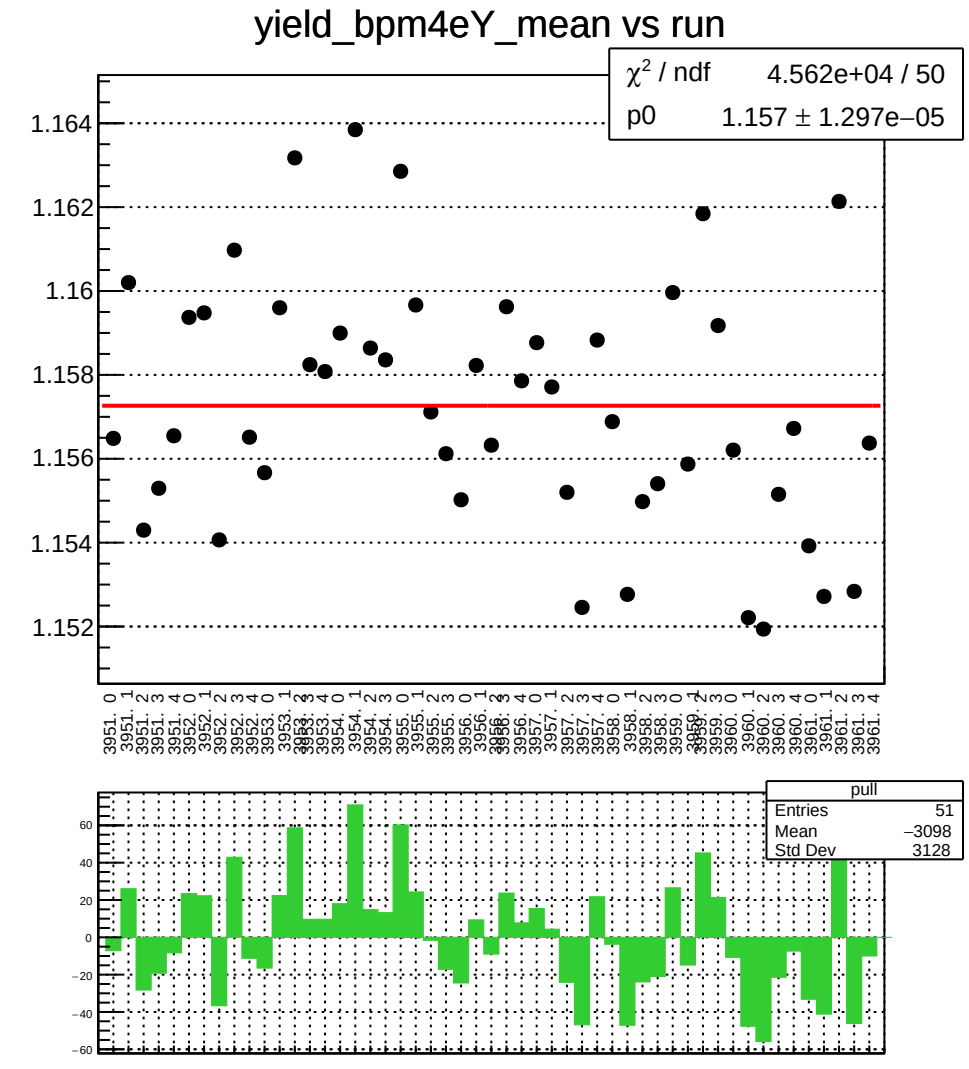

pull1D
Entries 51
Mean 0.6102
Std Dev 4.283
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

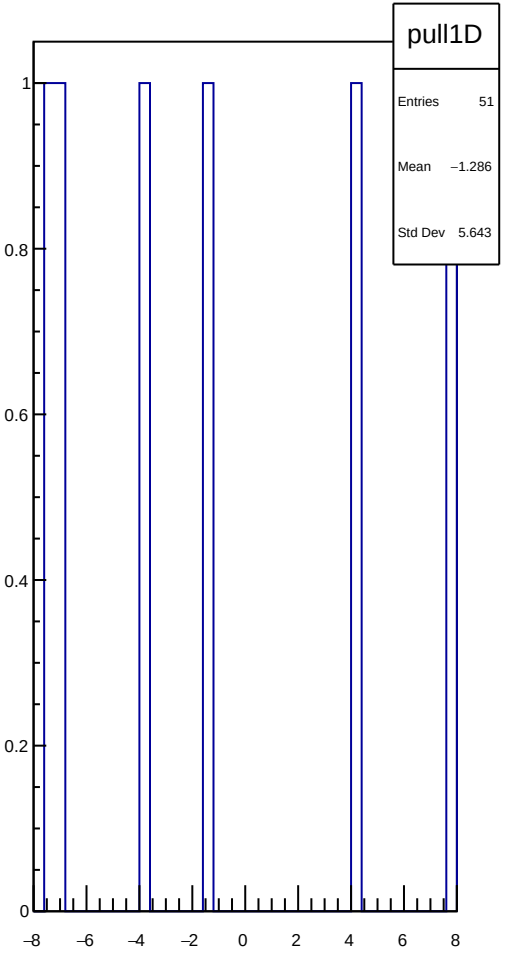

yield_bpm4aY_rms vs run
χ² / ndf 5967 / 50
p0 0.01518 ± 1.496e−05
0.018
0.017
0.016
0.015
0.014
0.013
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

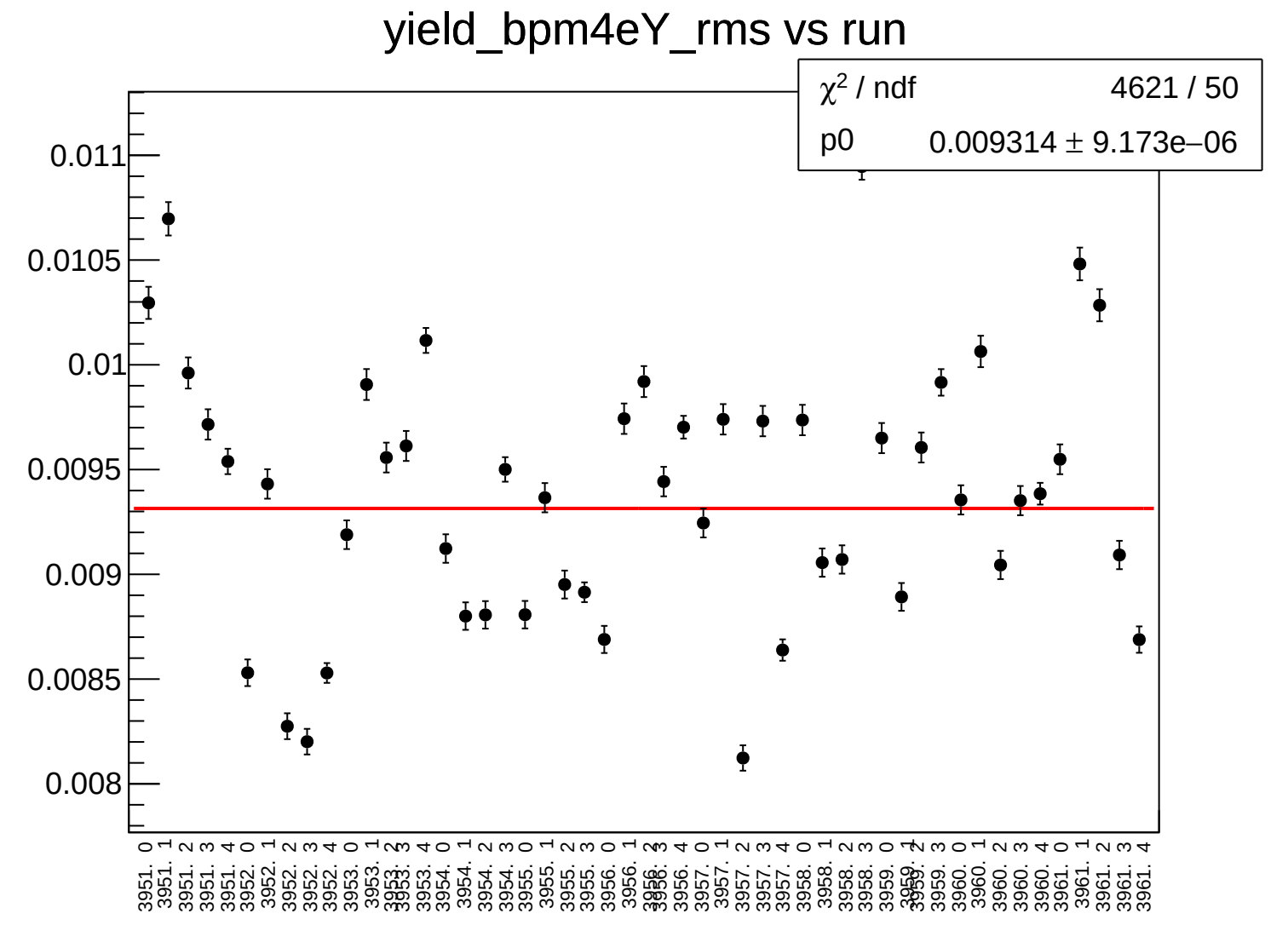

yield_bpm4eX_mean vs run
χ² / ndf 2.738e+04 / 50
p0 0.3362 ± 3.301e−05
0.345
0.34
0.335
0.33
0.325
0.32
0.315
pull
Entries 51
Mean 58.94
Std Dev 33.94
40
20
0
−20
−40
−60

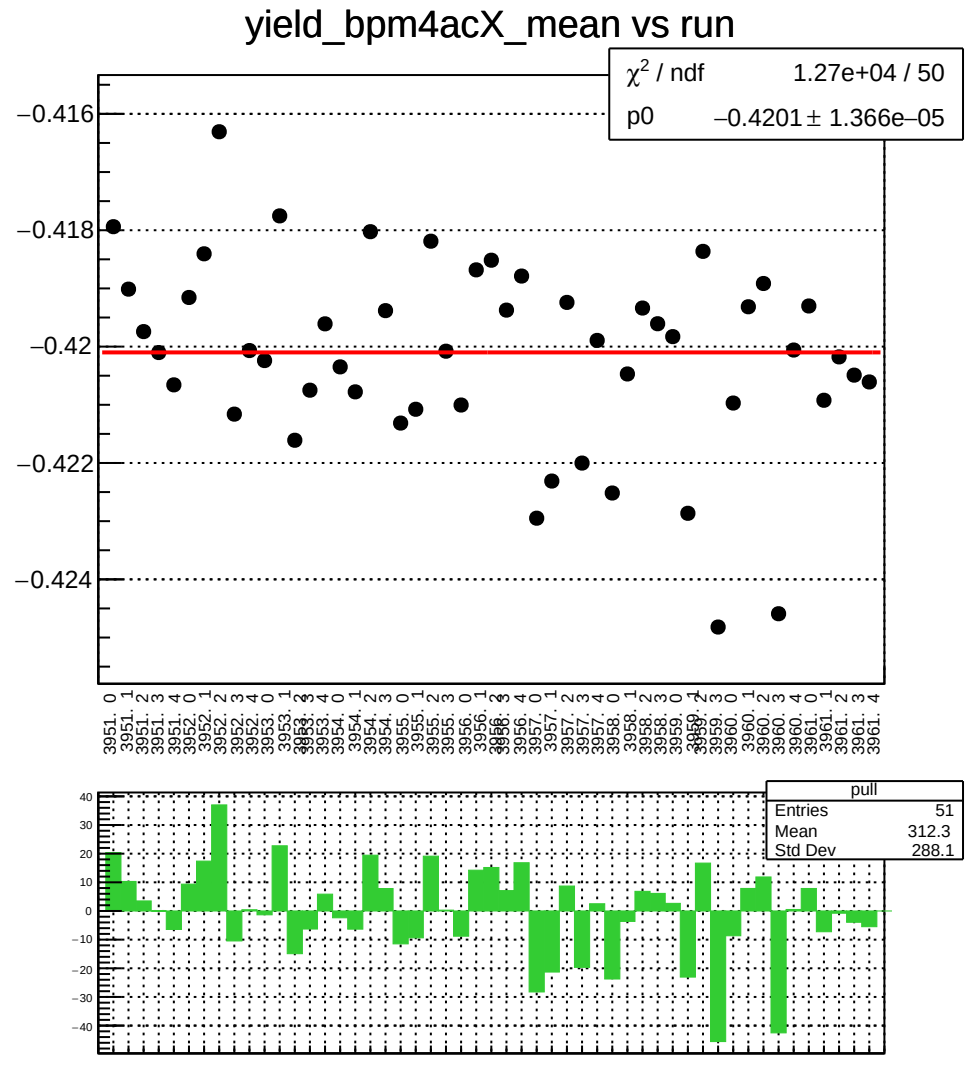

pull1D
Entries 51
Mean 3.092
Std Dev 4.307
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

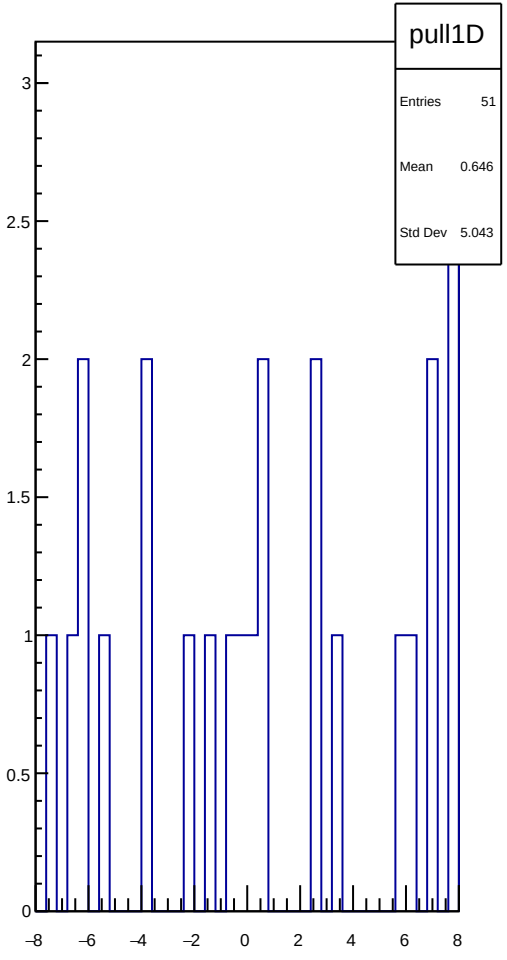

yield_bpm4eX_rms vs run
χ² / ndf 1.368e+04 / 50
p0 0.0236 ± 2.334e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

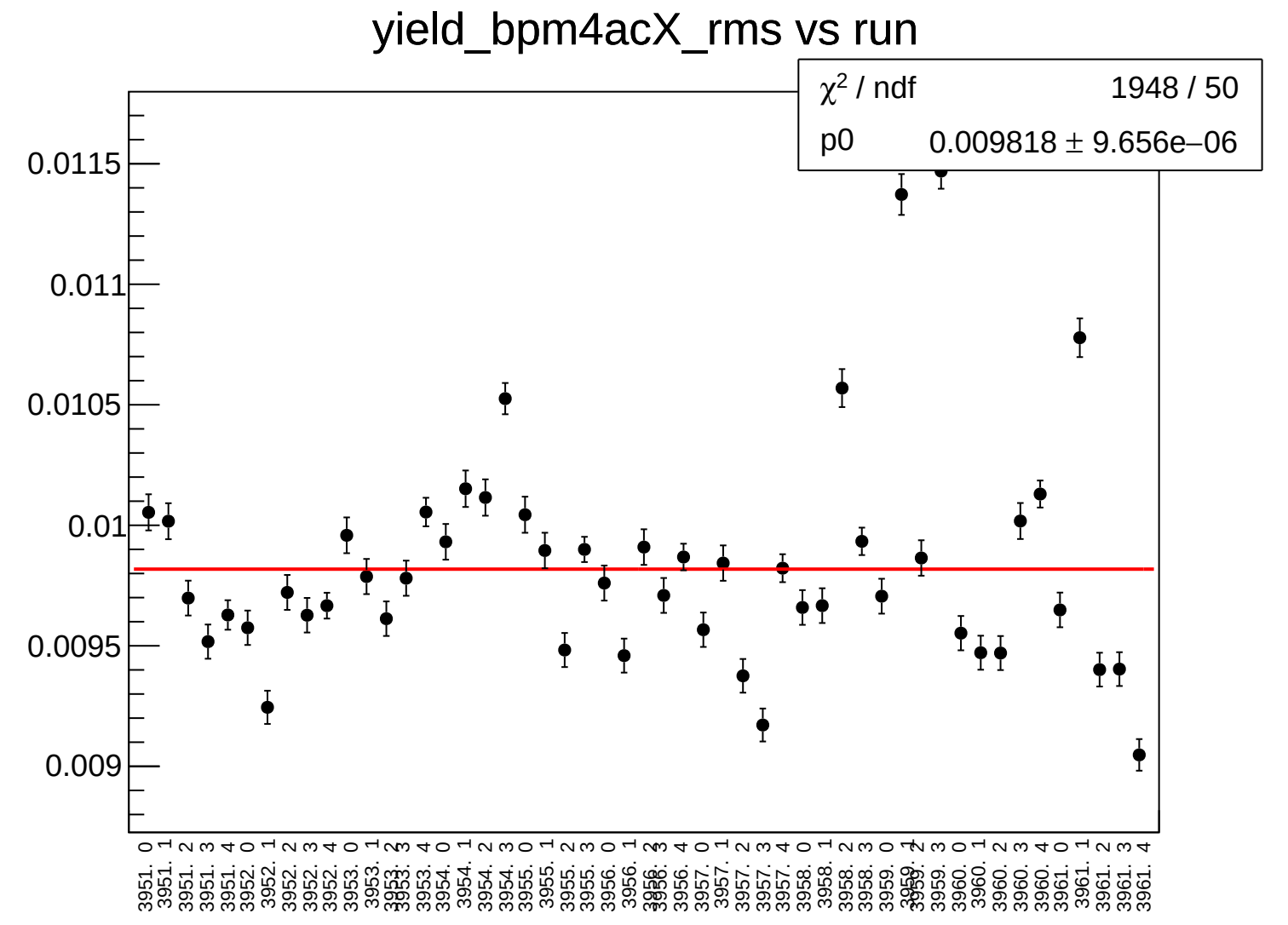

yield_bpm4eY_mean vs run
χ² / ndf 4.562e+04 / 50
p0 1.157 ± 1.297e−05
1.164
1.162
1.16
1.158
1.156
1.154
1.152
pull
Entries 51
Mean −3098
Std Dev 3128
60
40
20
0
−20
−40
−60

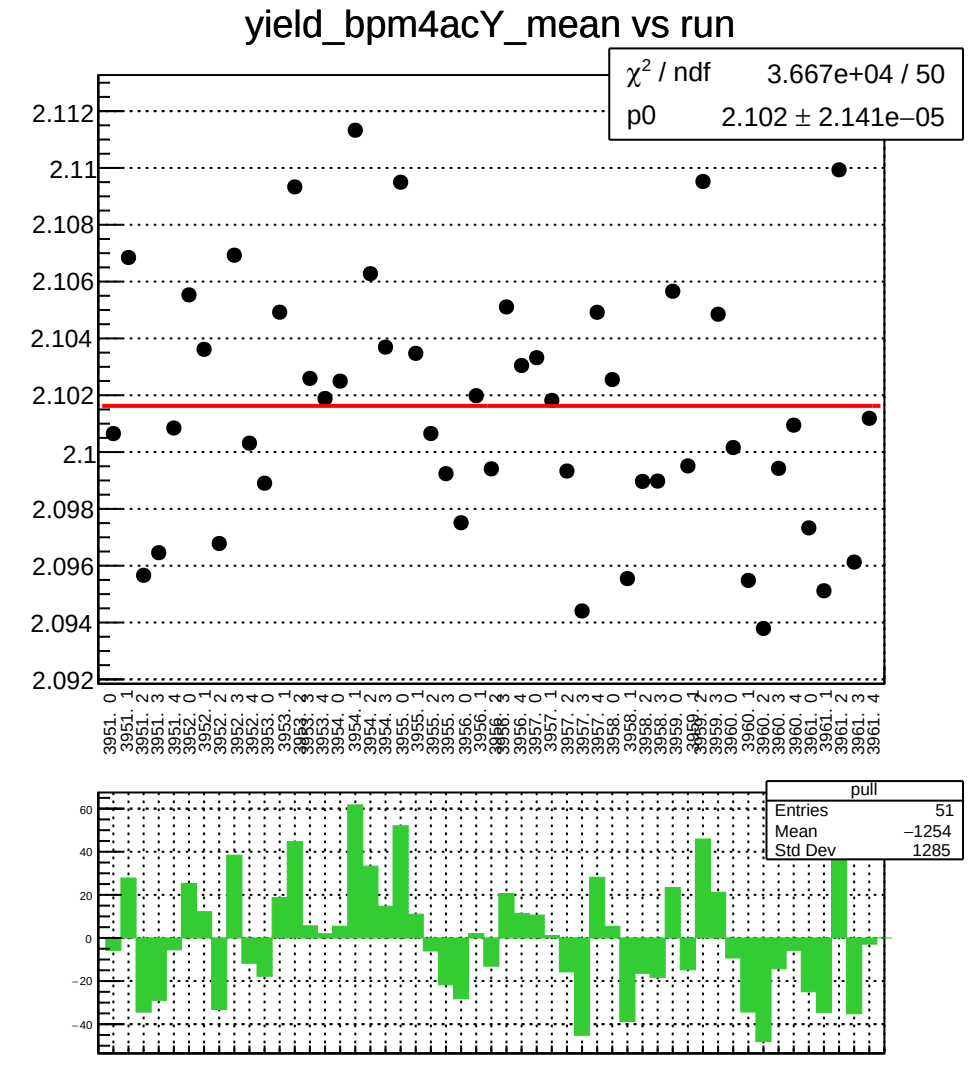

pull1D
Entries 51
Mean −1.286
Std Dev 5.643
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

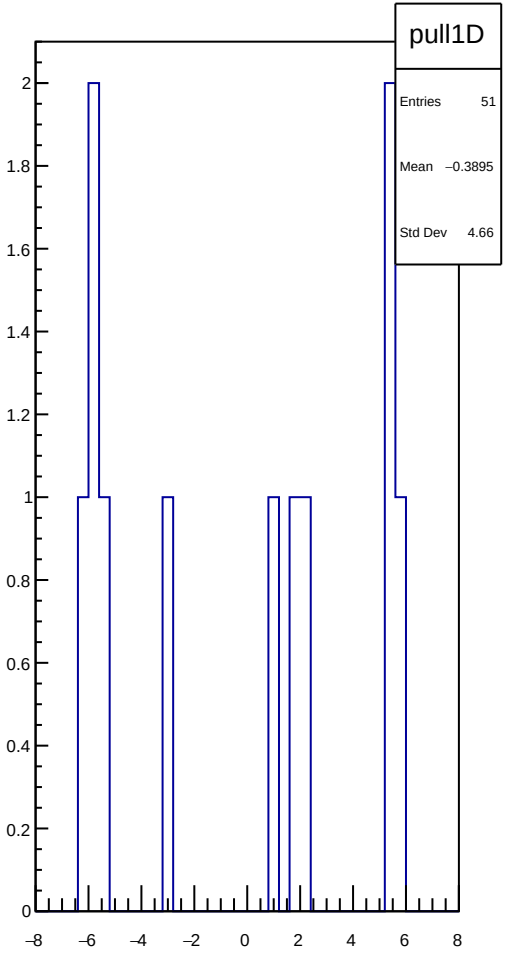

yield_bpm4eY_rms vs run
χ² / ndf 4621 / 50
p0 0.009314 ± 9.173e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

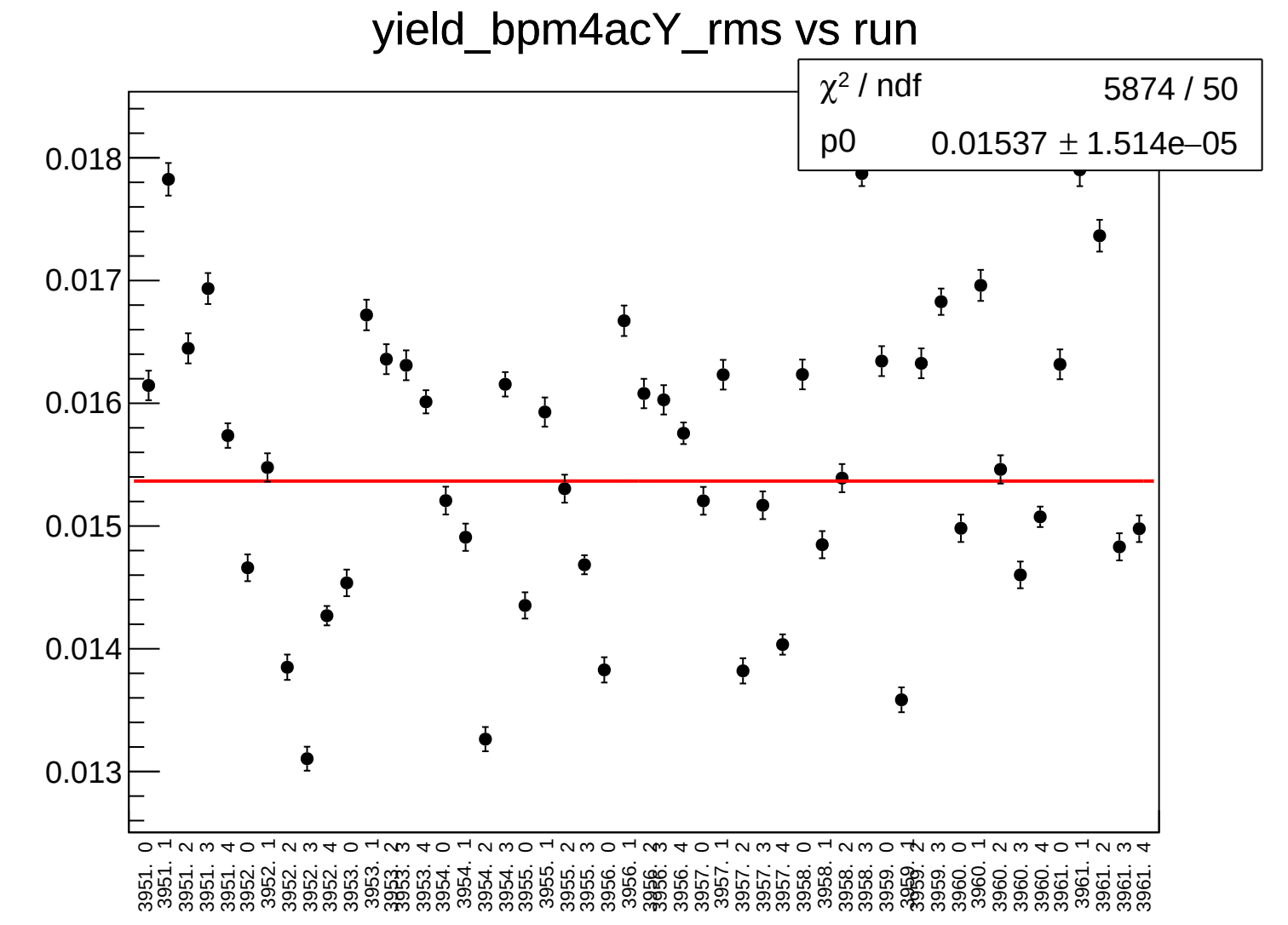

yield_bpm4acX_mean vs run
χ² / ndf 1.27e+04 / 50
p0 −0.4201 ± 1.366e−05
−0.416
−0.418
−0.42
−0.422
−0.424
pull
Entries 51
Mean 312.3
Std Dev 288.1

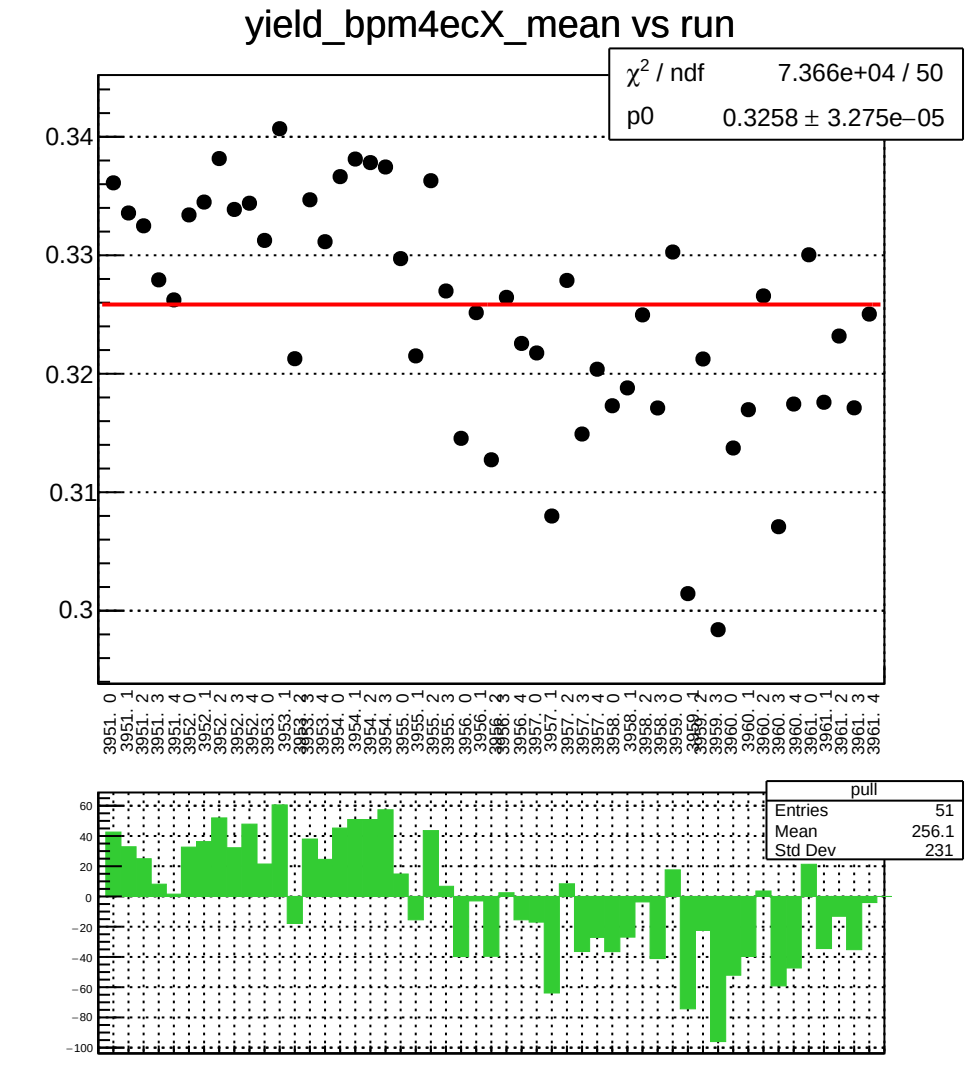

pull1D
Entries 51
Mean 0.646
Std Dev 5.043

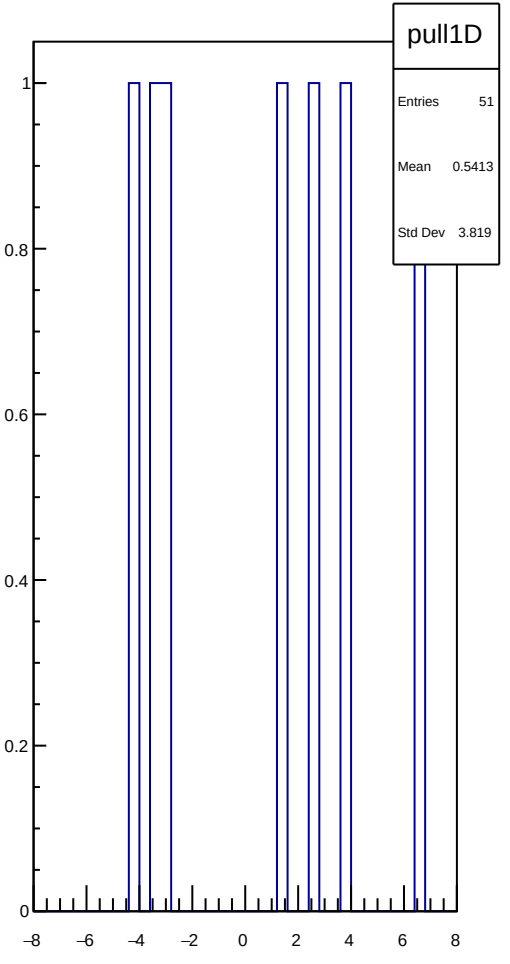

yield_bpm4acX_rms vs run
χ² / ndf 1948 / 50
p0 0.009818 ± 9.656e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

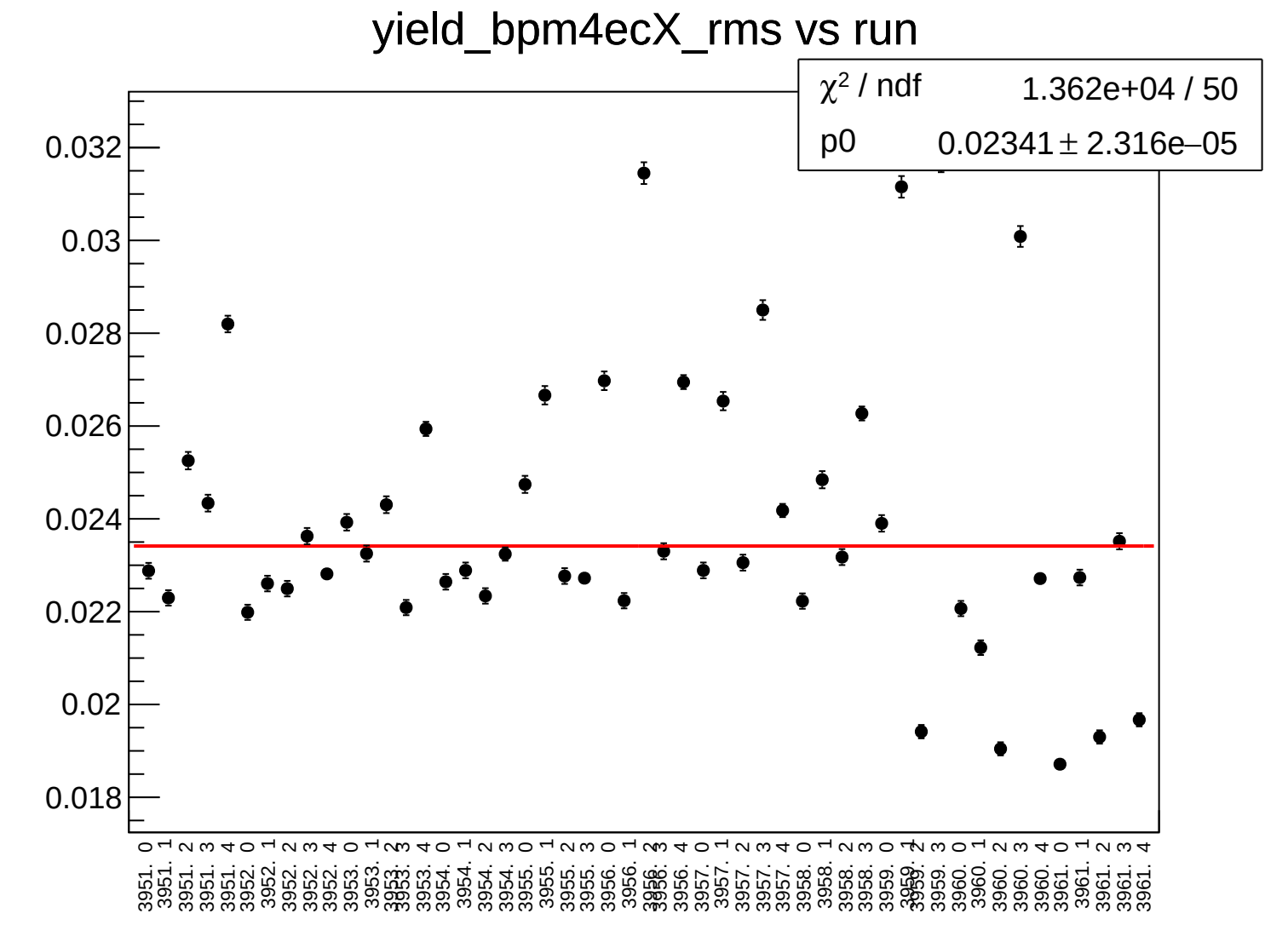

yield_bpm4acY_mean vs run
χ² / ndf 3.667e+04 / 50
p0 2.102 ± 2.141e−05
pull
Entries 51
Mean −1254
Std Dev 1285

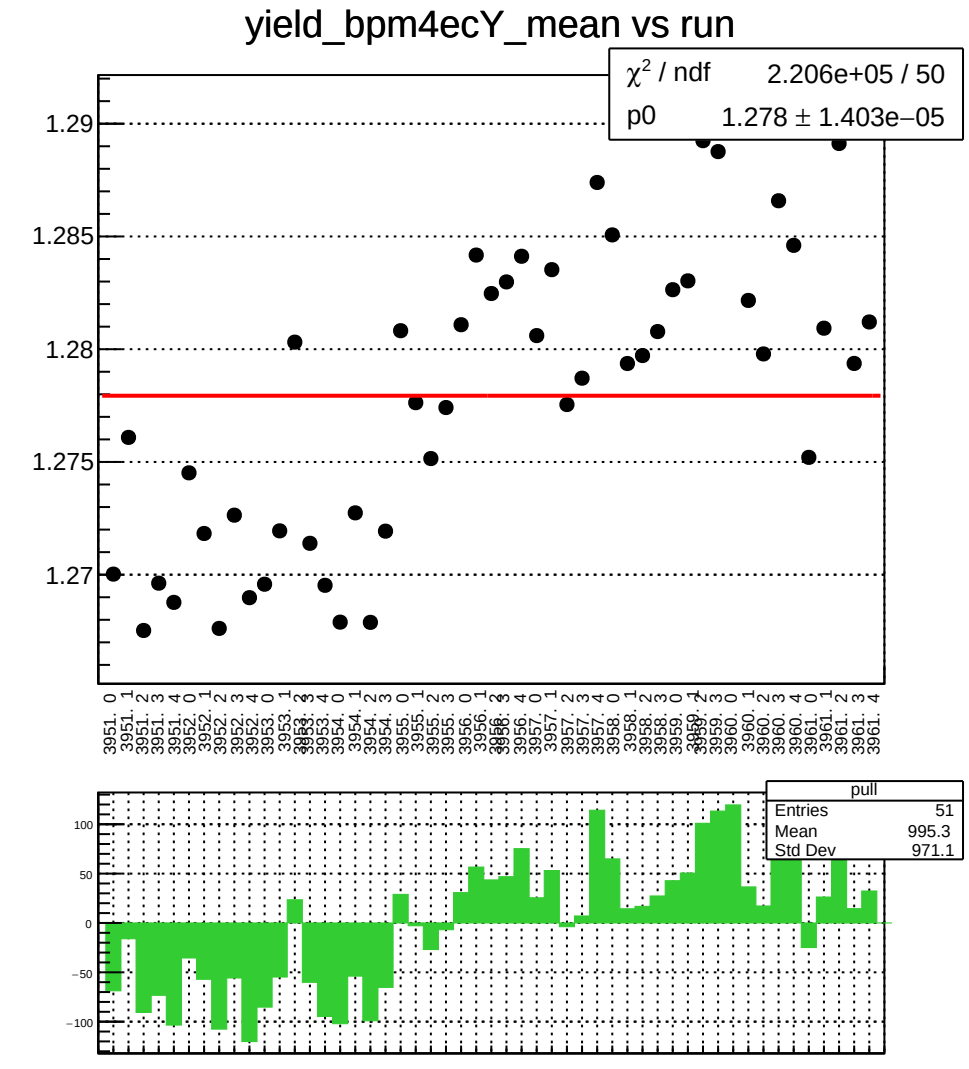

pull1D
Entries 51
Mean −0.3895
Std Dev 4.66

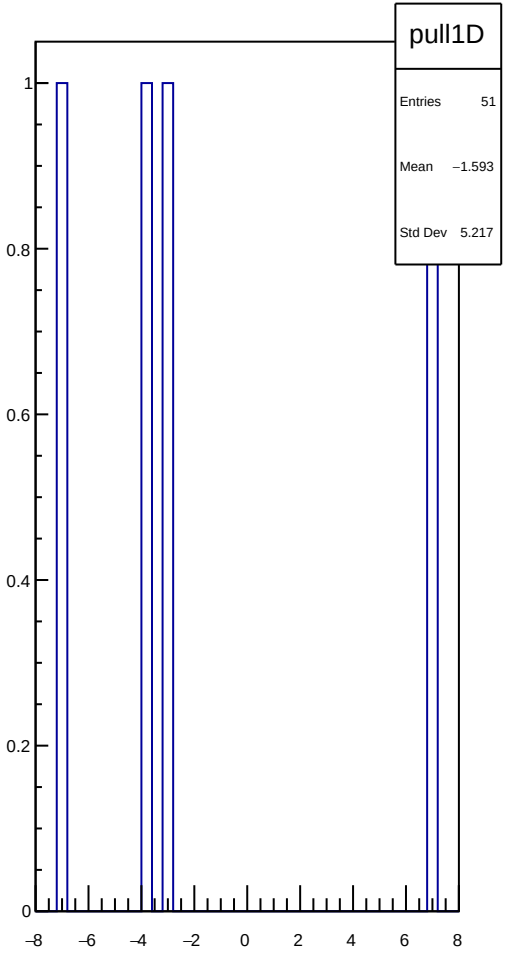

yield_bpm4acY_rms vs run
χ² / ndf 5874 / 50
p0 0.01537 ± 1.514e−05
0.018
0.017
0.016
0.015
0.014
0.013
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

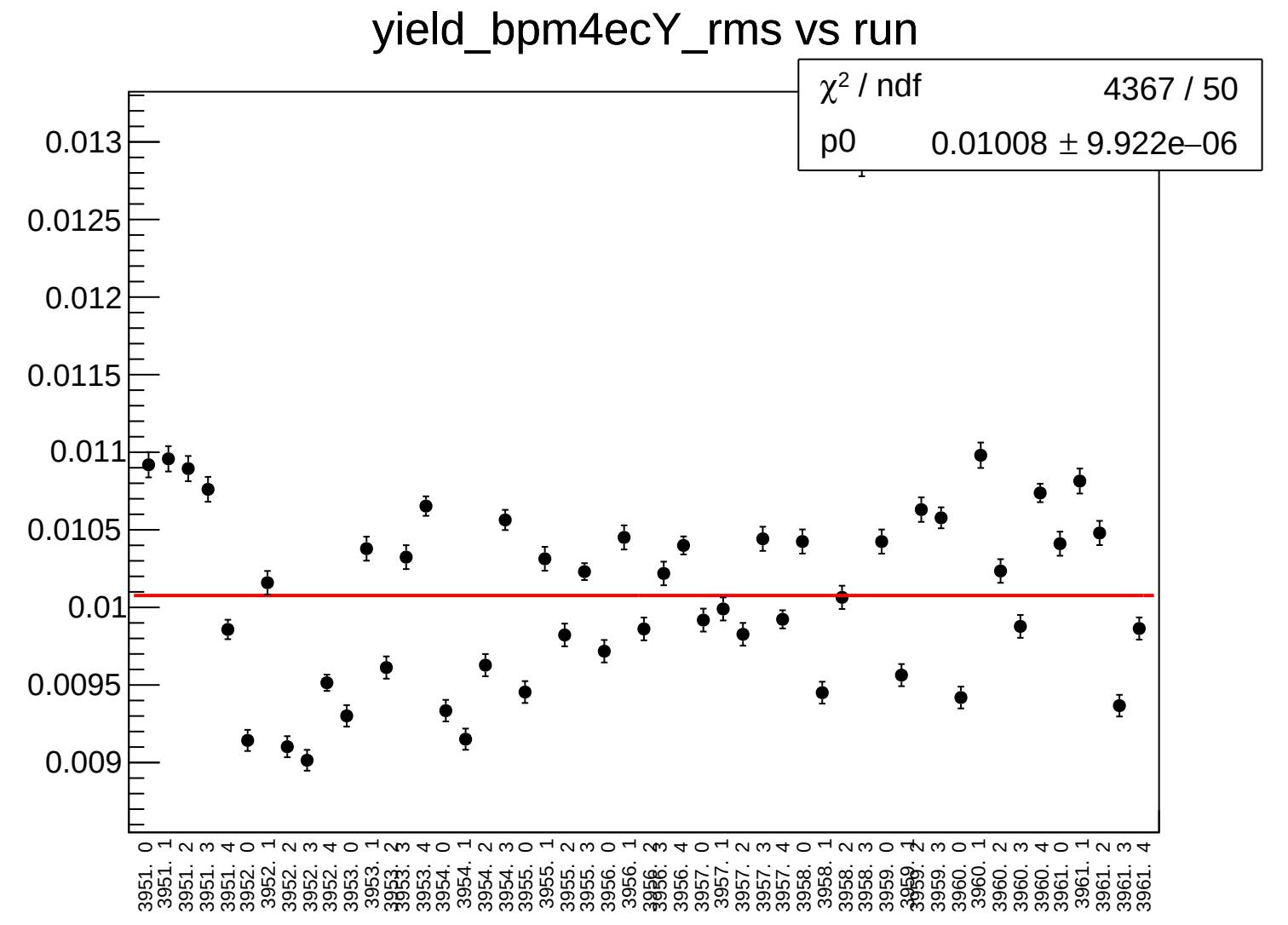

yield_bpm4ecX_mean vs run
χ² / ndf 7.366e+04 / 50
p0 0.3258 ± 3.275e−05
0.34
0.33
0.32
0.31
0.3
pull
Entries 51
Mean 256.1
Std Dev 231
60
40
20
0
−20
−40
−60
−80
−100

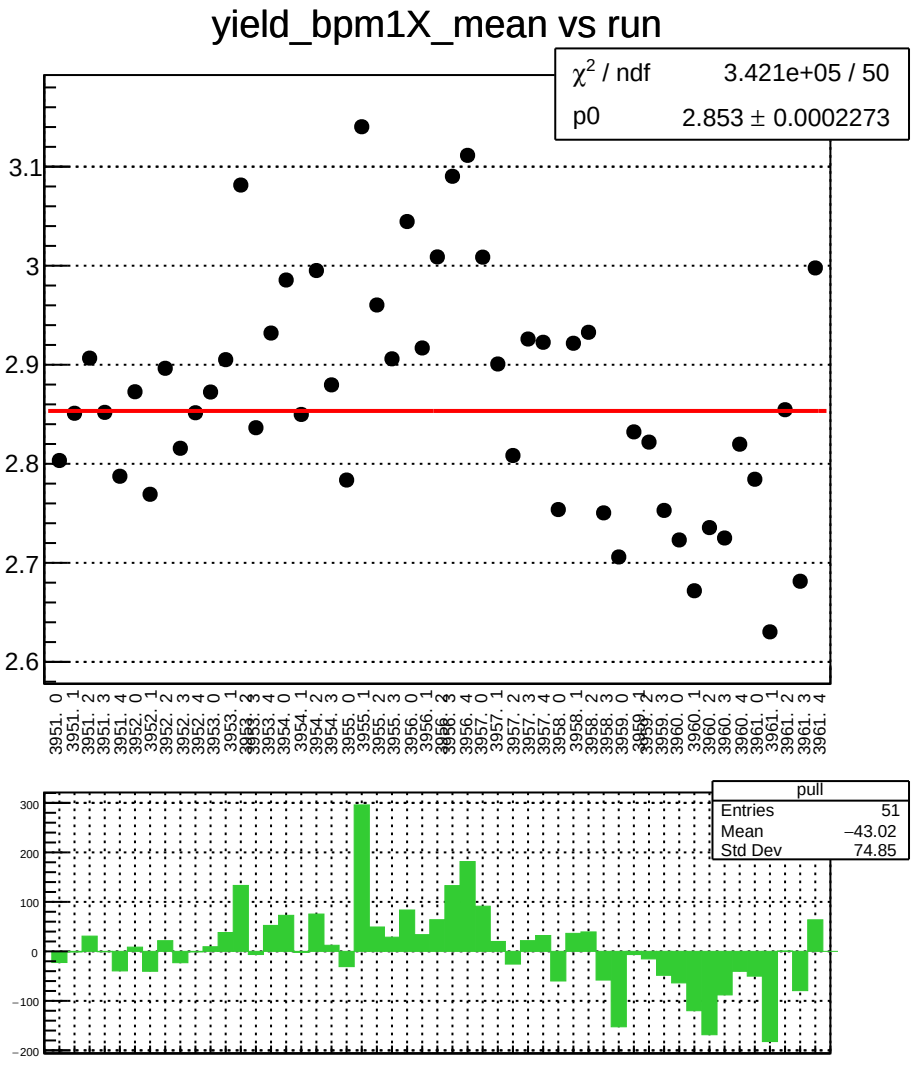

pull1D
Entries 51
Mean 0.5413
Std Dev 3.819
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

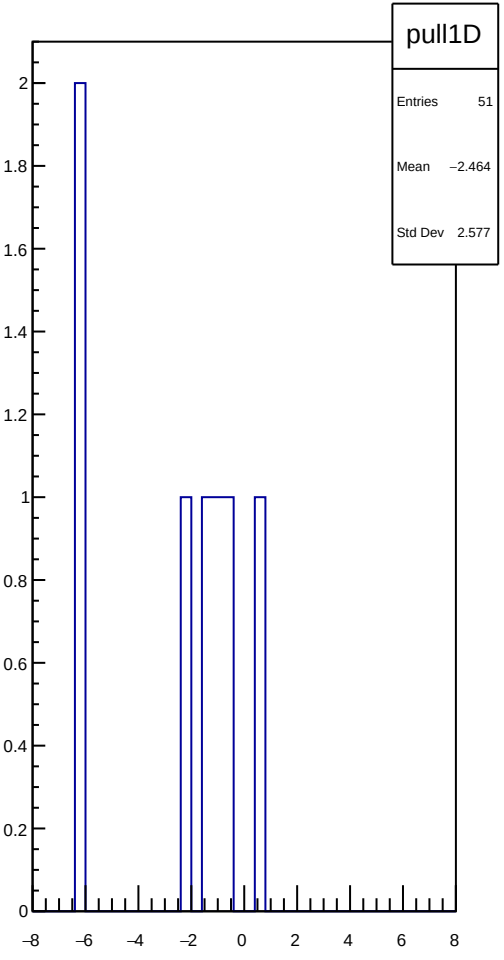

yield_bpm4ecX_rms vs run
χ² / ndf 1.362e+04 / 50
p0 0.02341 ± 2.316e–05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

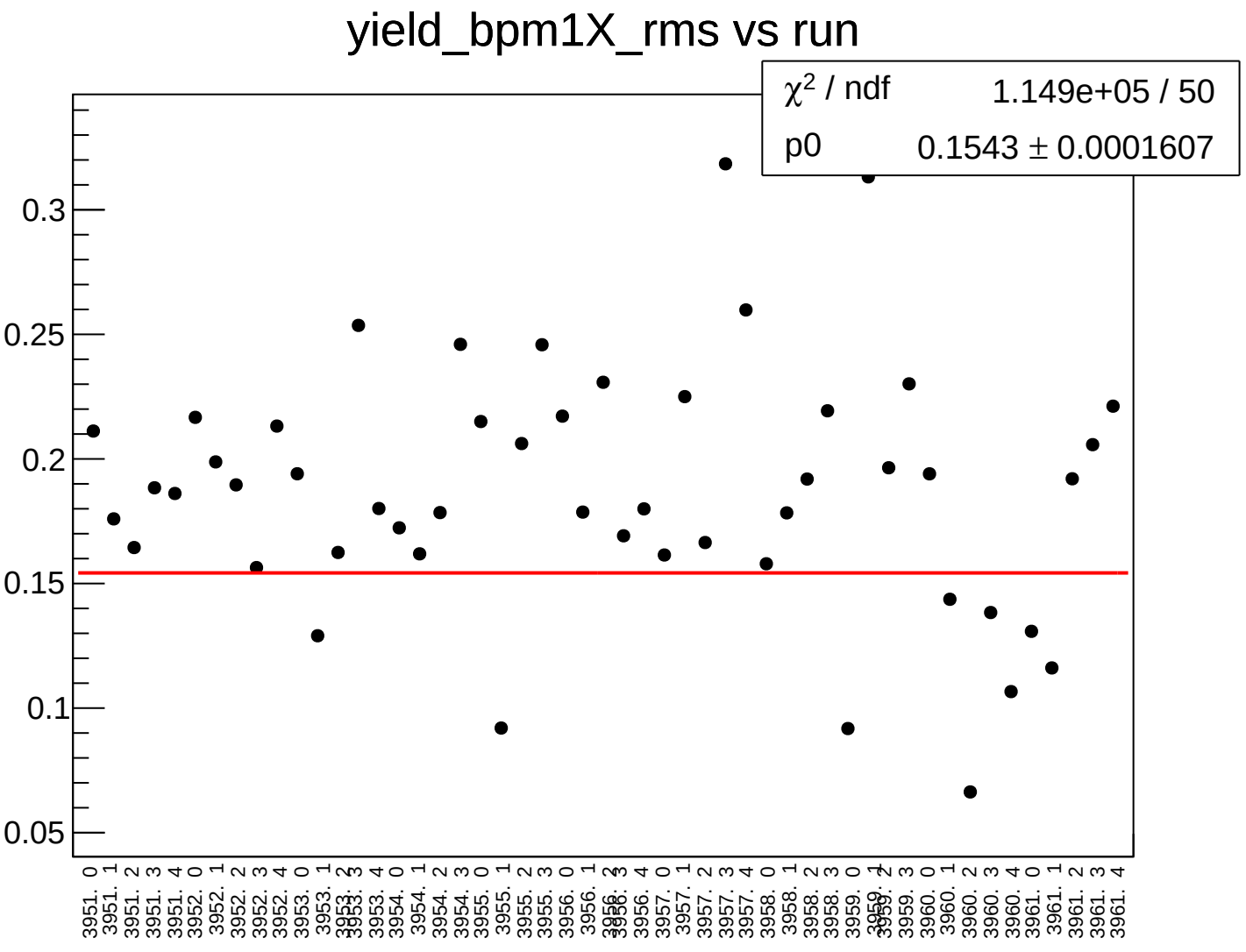

yield_bpm4ecY_mean vs run
χ² / ndf 2.206e+05 / 50
p0 1.278 ± 1.403e−05
1.29
1.285
1.28
1.275
1.27
pull
Entries 51
Mean 995.3
Std Dev 971.1
100
50
0
−50
−100

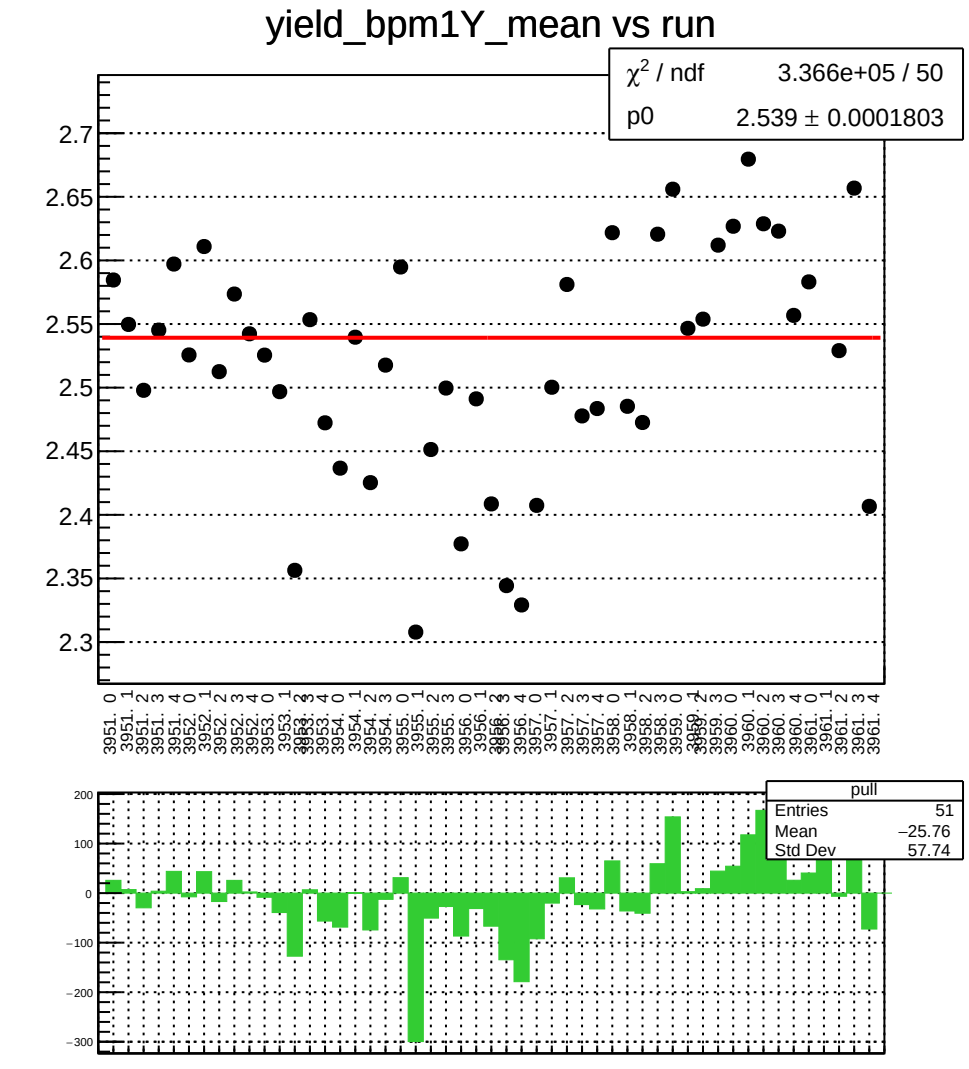

pull1D
Entries 51
Mean −1.593
Std Dev 5.217
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

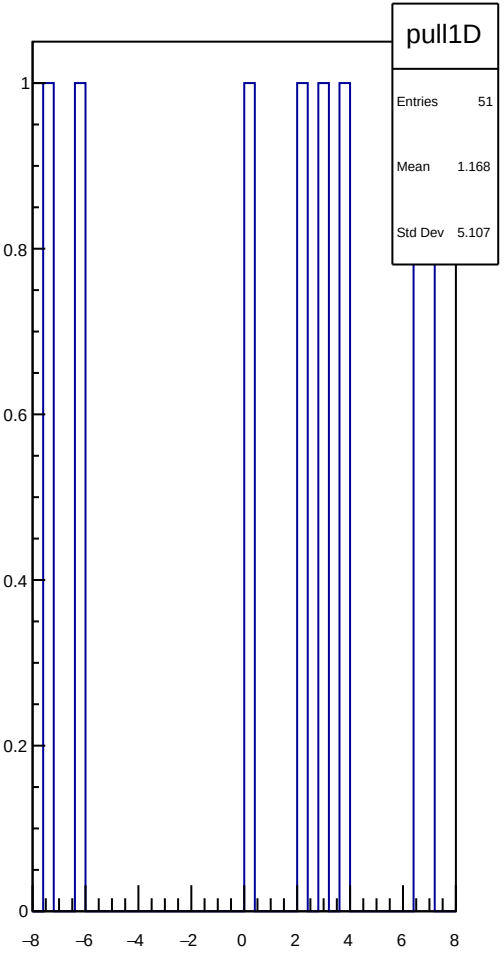

yield_bpm4ecY_rms vs run
χ² / ndf 4367 / 50
p0 0.01008 ± 9.922e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

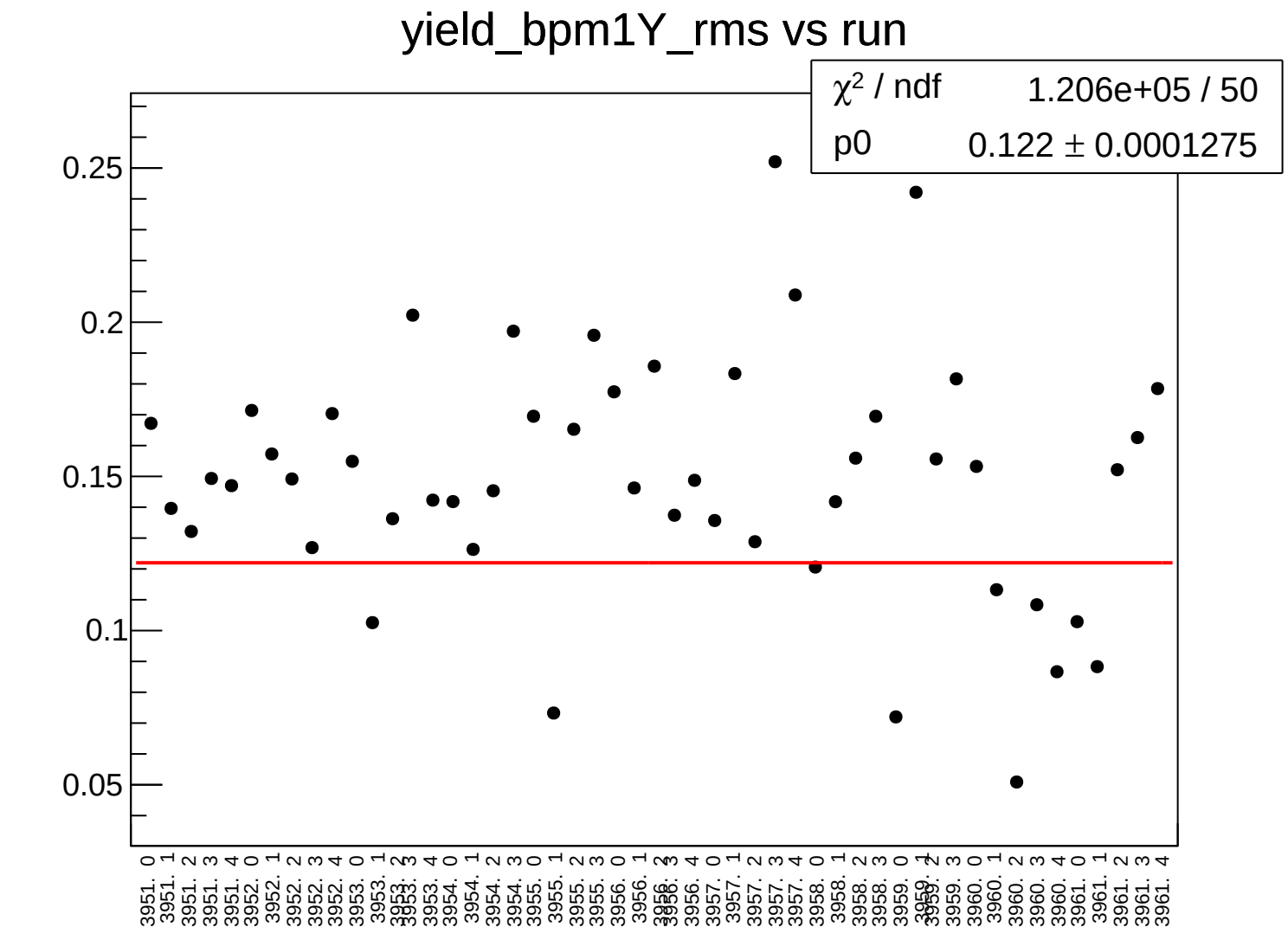

yield_bpm1X_mean vs run
χ² / ndf 3.421e+05 / 50
p0 2.853 ± 0.0002273
pull
Entries 51
Mean −43.02
Std Dev 74.85

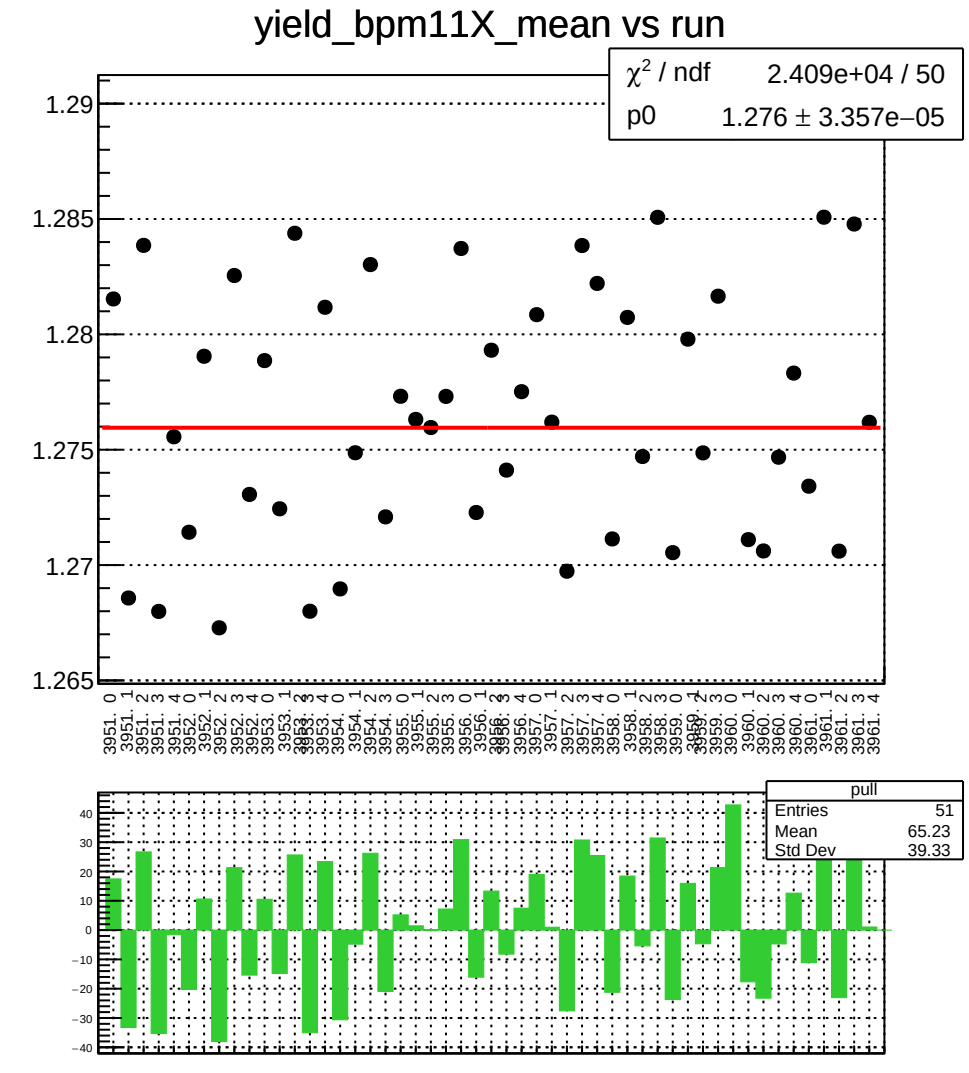

pull1D
Entries 51
Mean −2.464
Std Dev 2.577

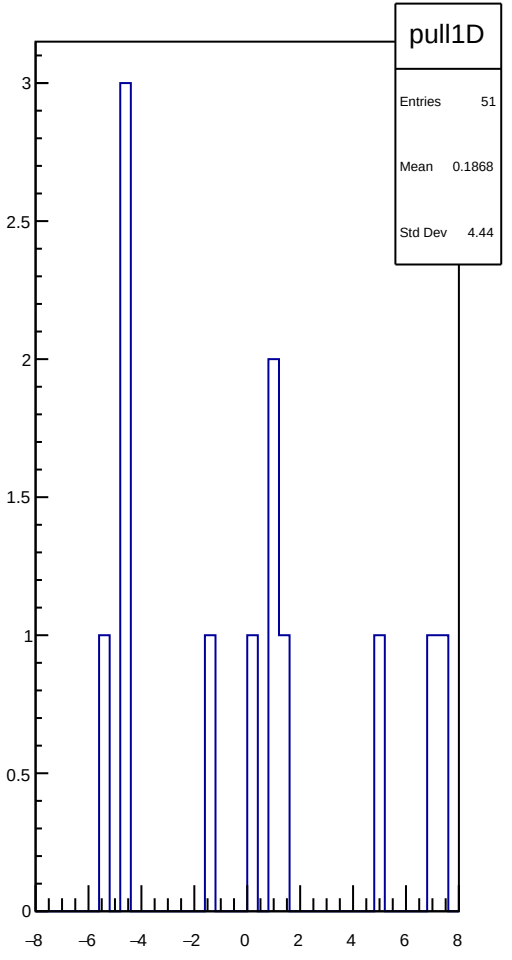

yield_bpm1X_rms vs run
χ² / ndf 1.149e+05 / 50
p0 0.1543 ± 0.0001607
0.3
0.25
0.2
0.15
0.1
0.05
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

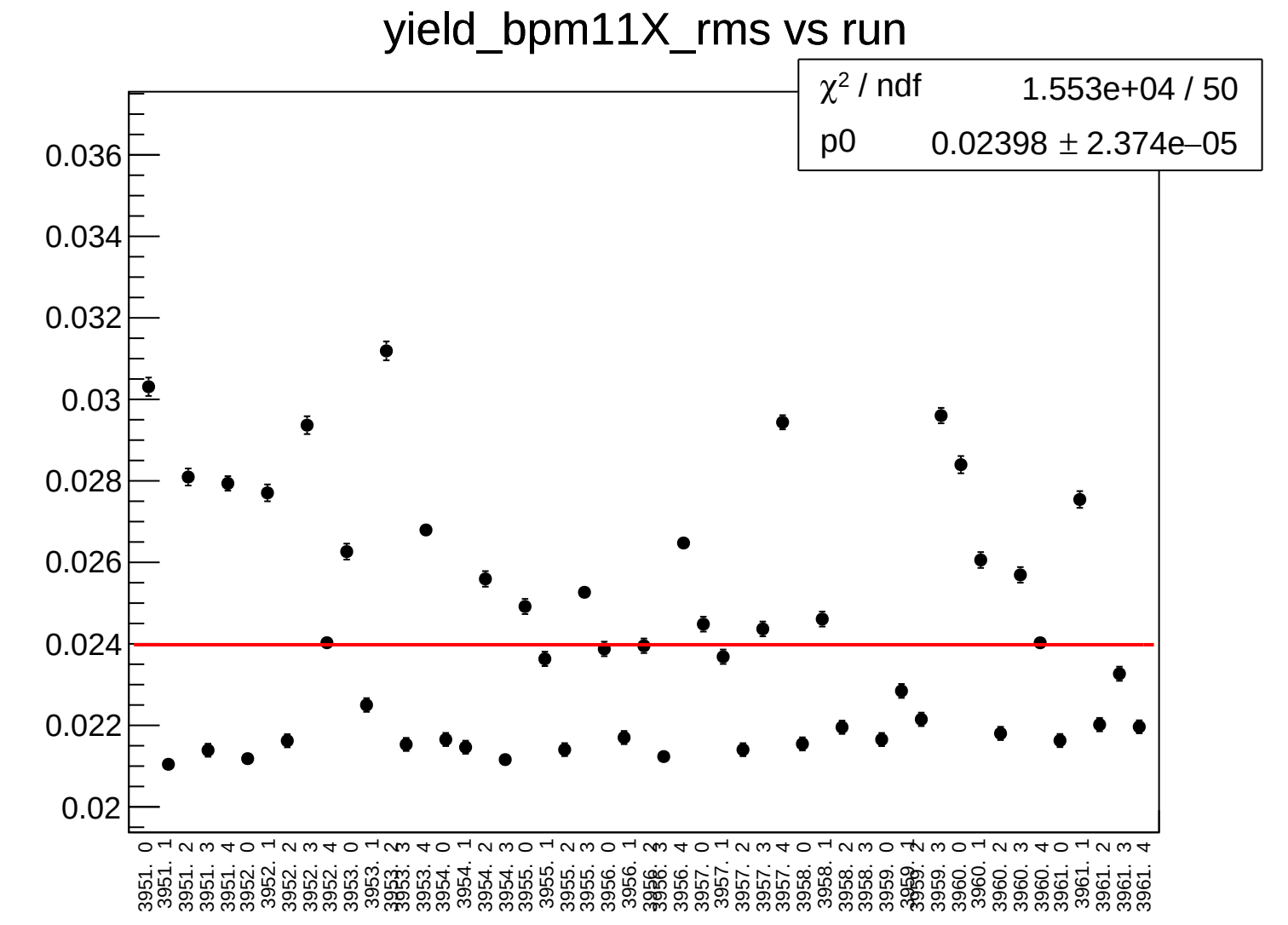

yield_bpm1Y_mean vs run
χ² / ndf 3.366e+05 / 50
p0 2.539 ± 0.0001803
pull
Entries 51
Mean −25.76
Std Dev 57.74

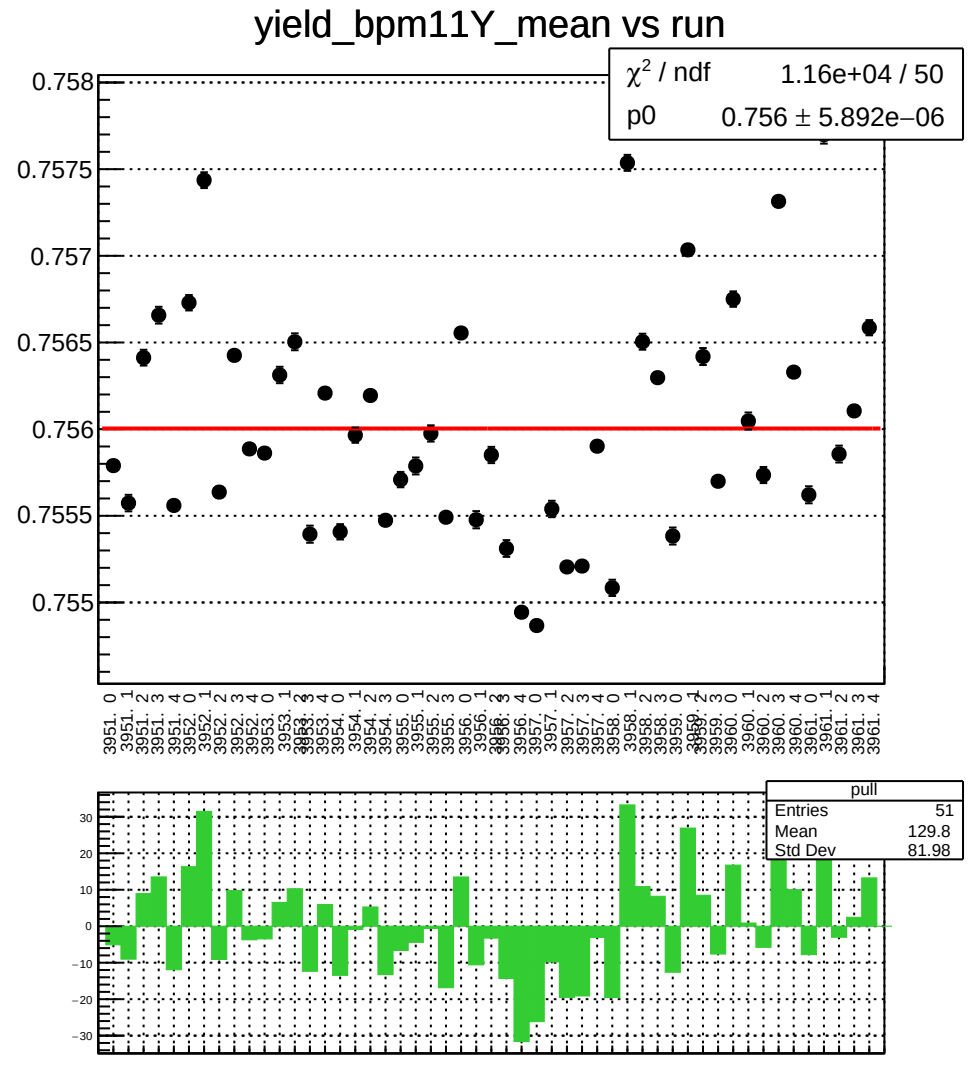

pull1D
Entries 51
Mean 1.168
Std Dev 5.107

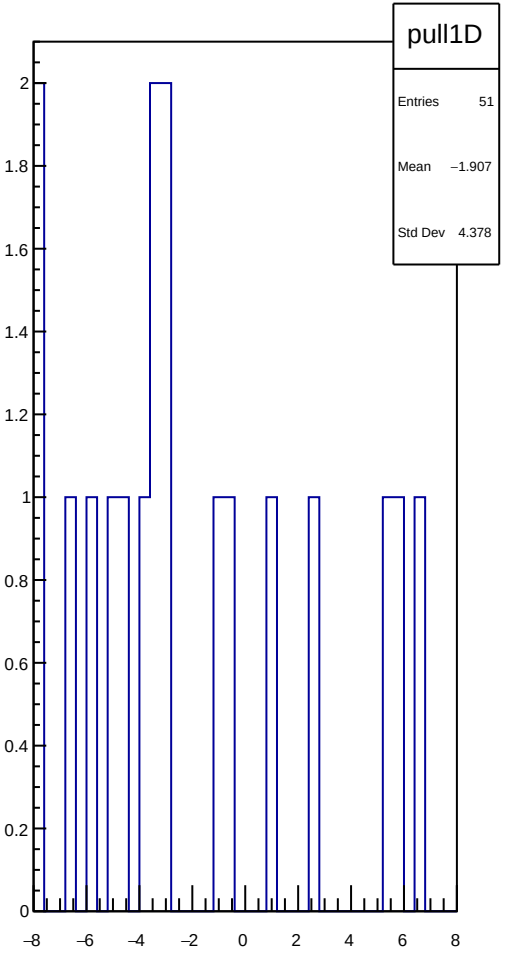

yield_bpm1Y_rms vs run
χ² / ndf 1.206e+05 / 50
p0 0.122 ± 0.0001275
0.25
0.2
0.15
0.1
0.05
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

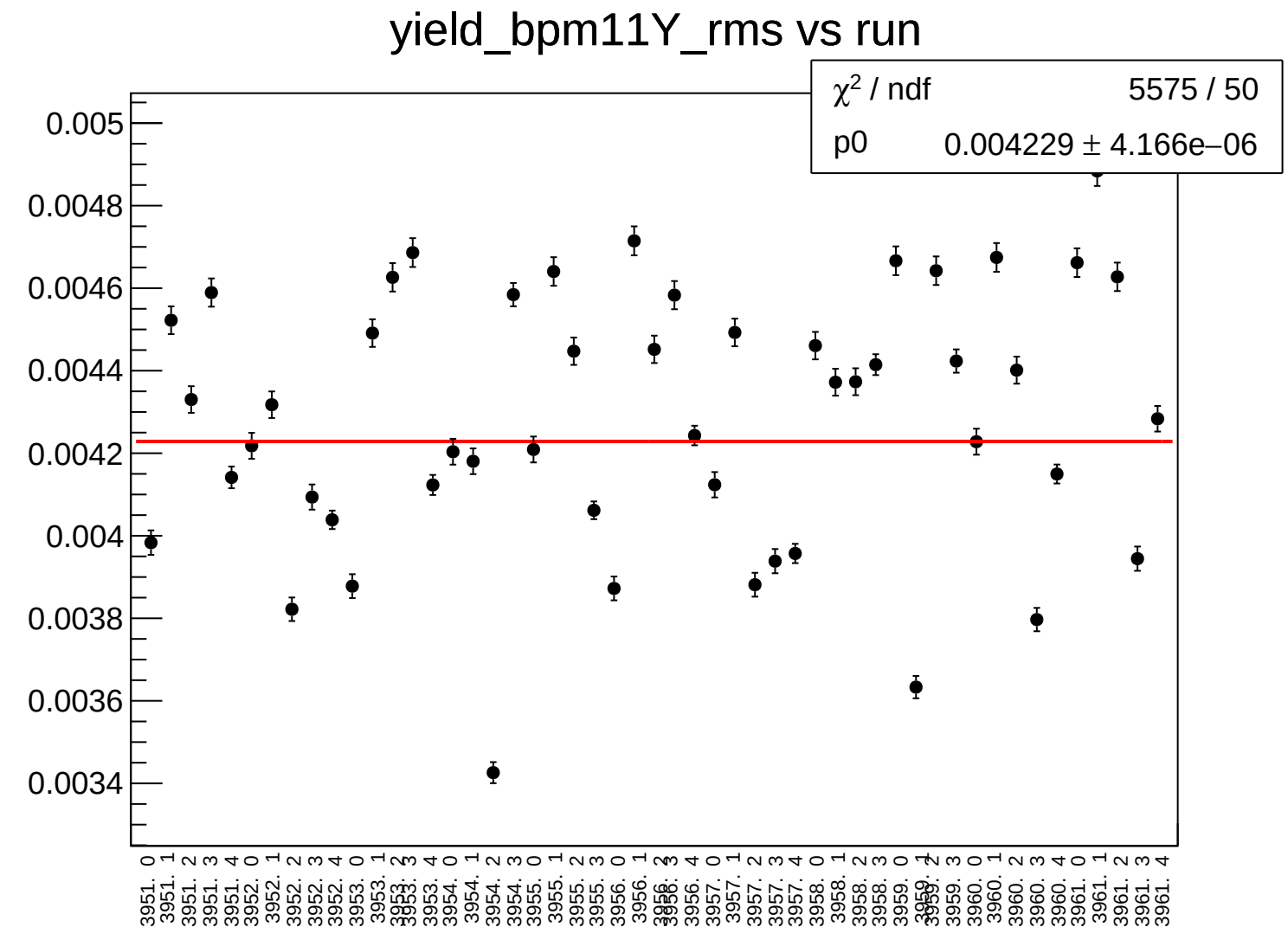

yield_bpm11X_mean vs run
χ² / ndf 2.409e+04 / 50
p0 1.276 ± 3.357e−05
1.29
1.285
1.28
1.275
1.27
1.265
pull
Entries 51
Mean 65.23
Std Dev 39.33
40
30
20
10
0
−10
−20
−30
−40

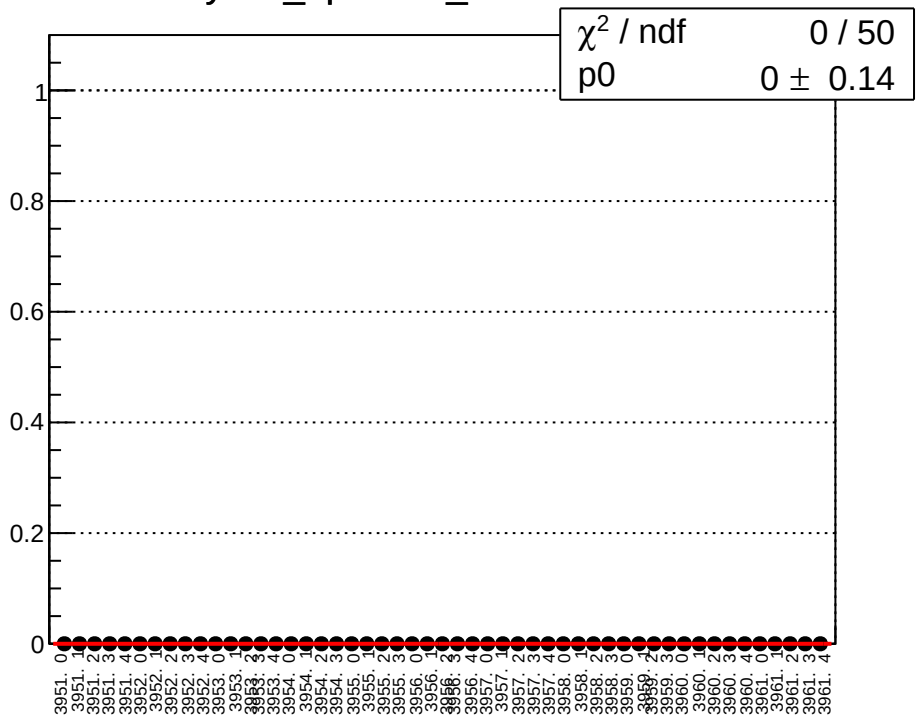

pull1D
Entries 51
Mean 0.1868
Std Dev 4.44
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

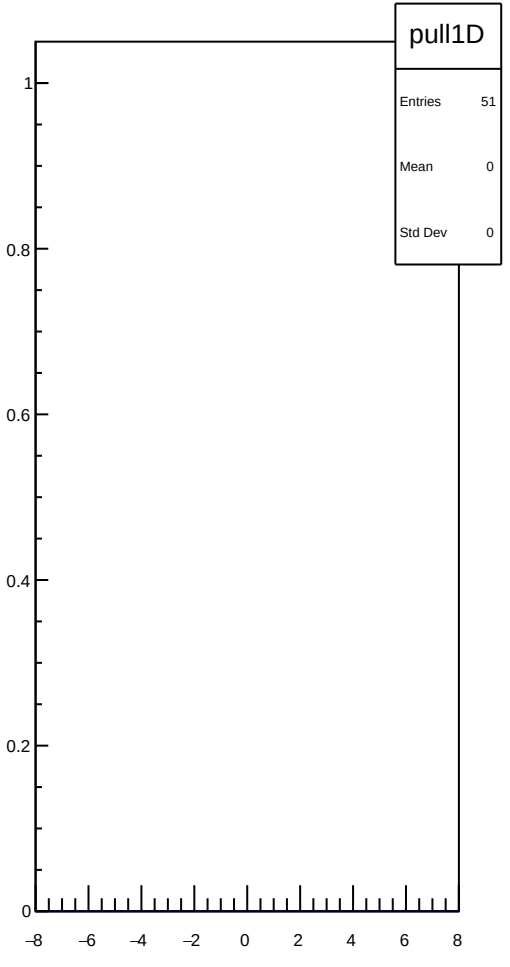

yield_bpm11X_rms vs run
χ² / ndf 1.553e+04 / 50
p0 0.02398 ± 2.374e–05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

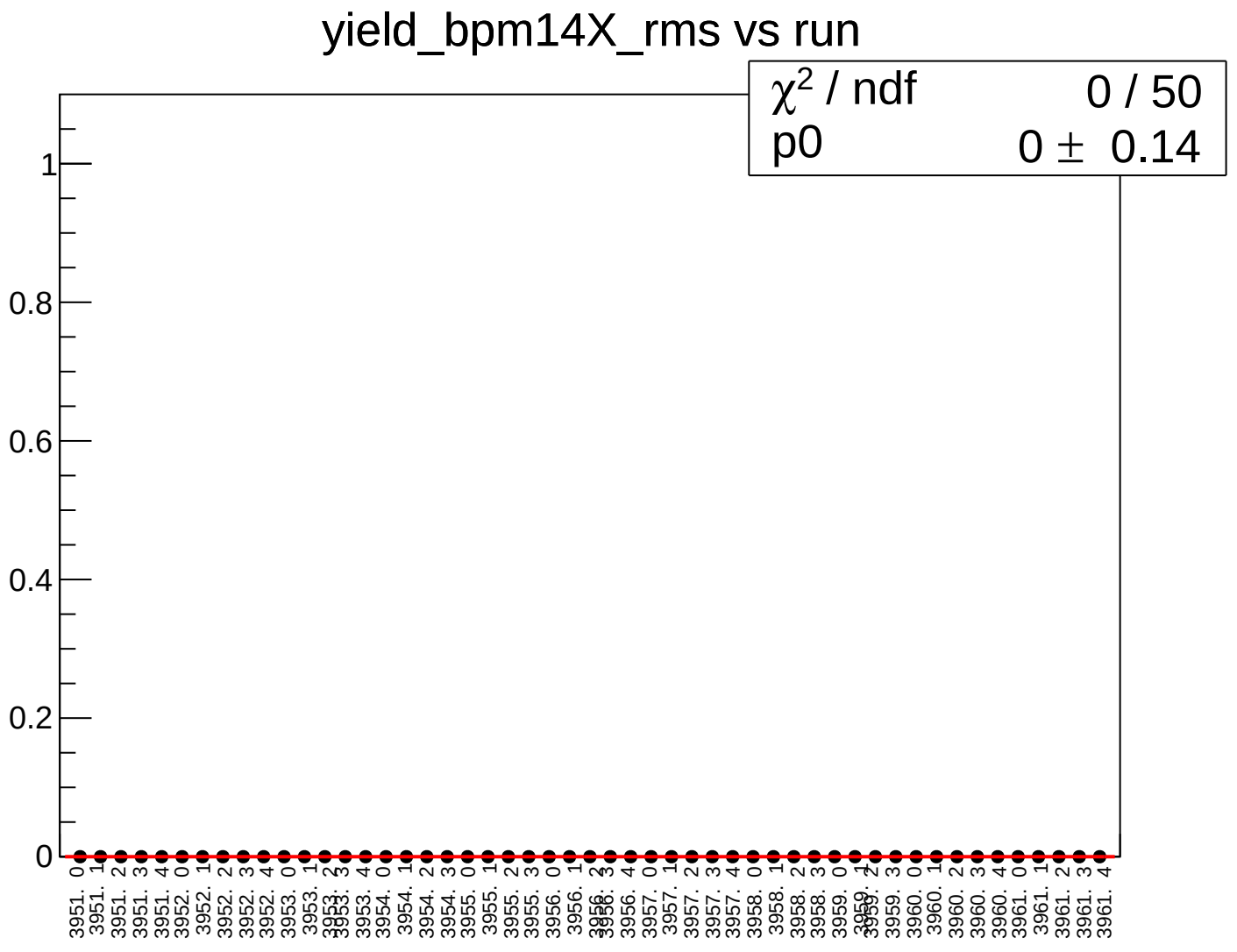

yield_bpm11Y_mean vs run
χ² / ndf 1.16e+04 / 50
p0 0.756 ± 5.892e−06
0.758
0.7575
0.757
0.7565
0.756
0.7555
0.755
pull
Entries 51
Mean 129.8
Std Dev 81.98
30
20
10
0
−10
−20
−30


pull1D
Entries 51
Mean −1.907
Std Dev 4.378
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_bpm11Y_rms vs run
χ² / ndf 5575 / 50
p0 0.004229 ± 4.166e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


yield_bpm14X_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 51
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 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
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3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
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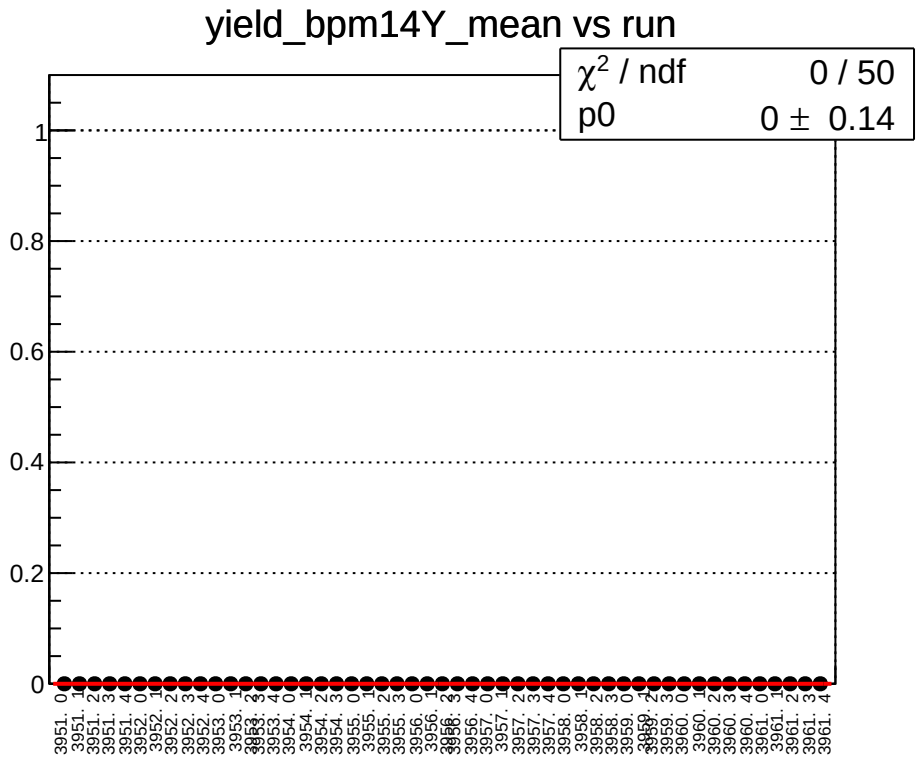
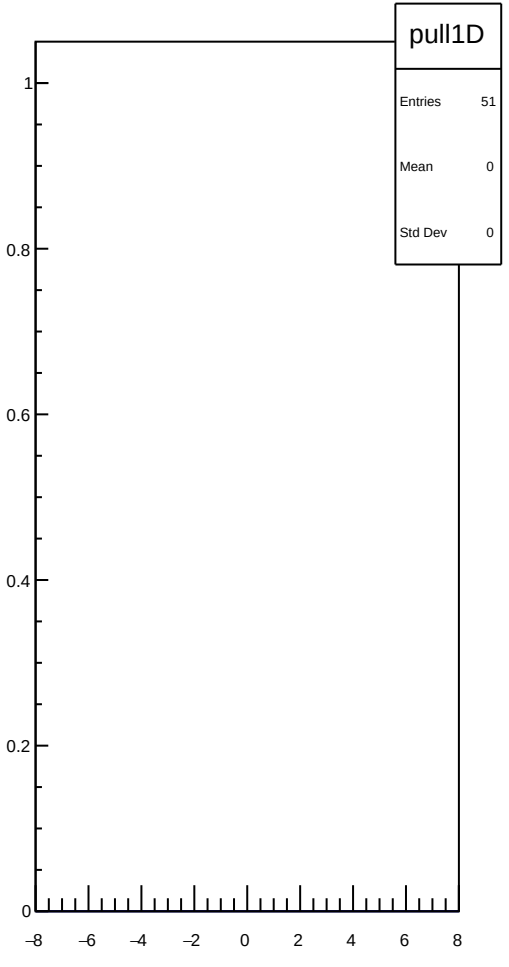
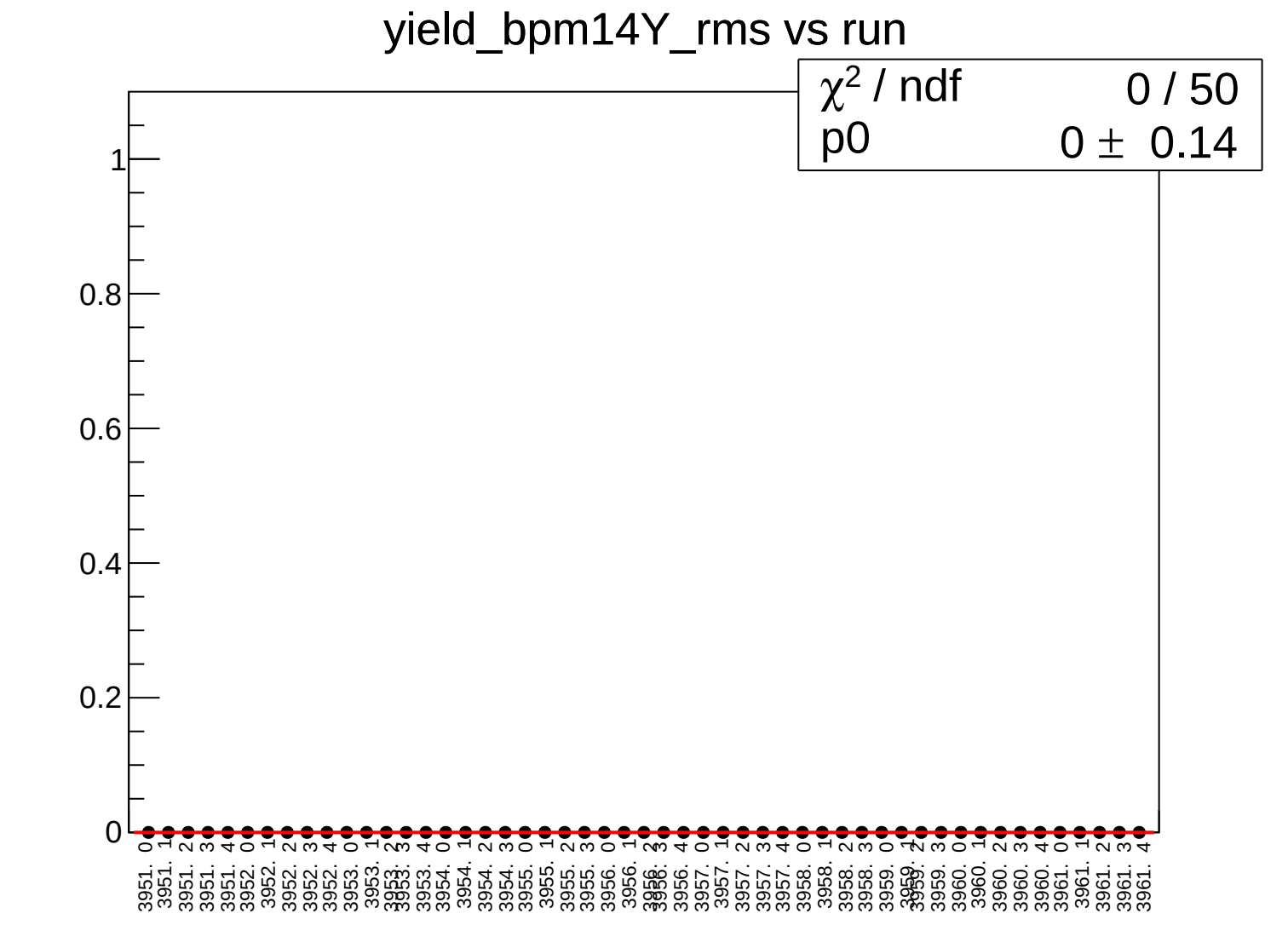
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


yield_bpm14Y_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 51
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 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
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3956. 1
3956. 2
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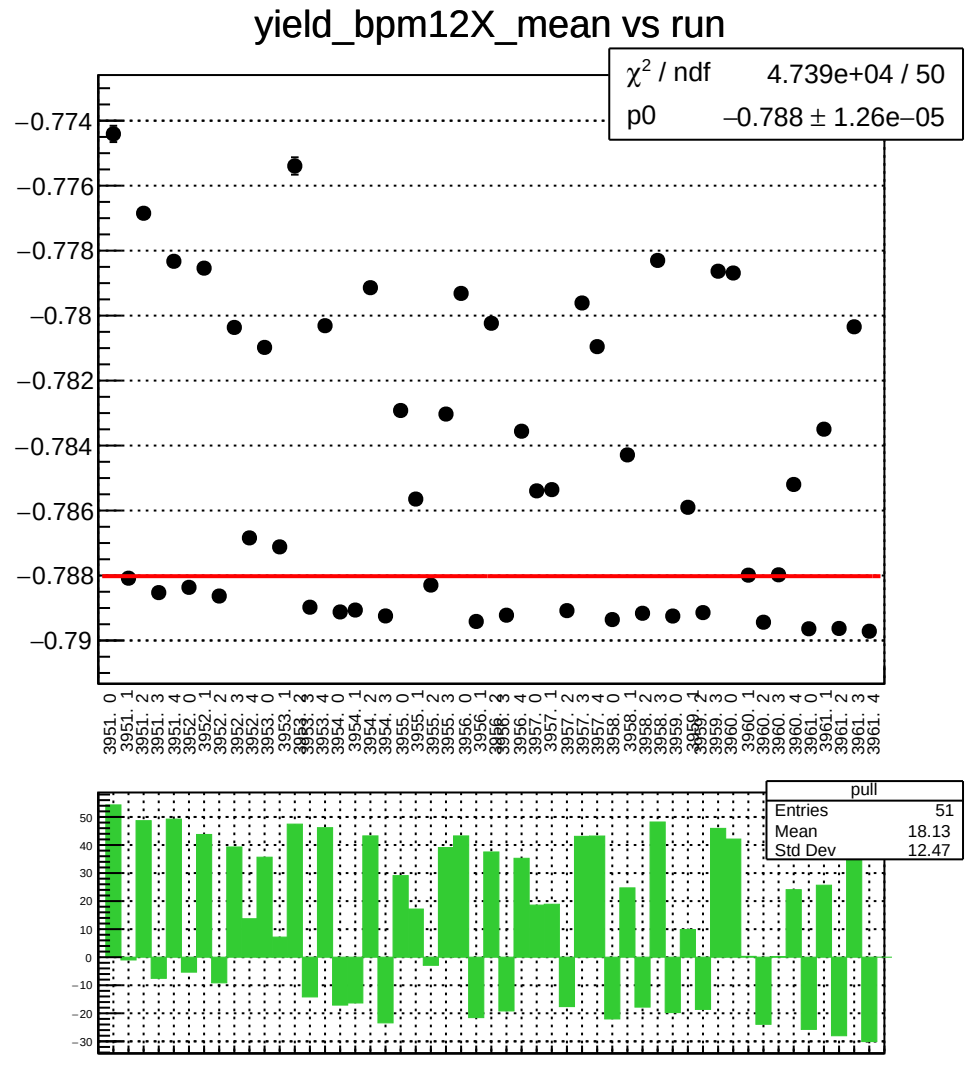
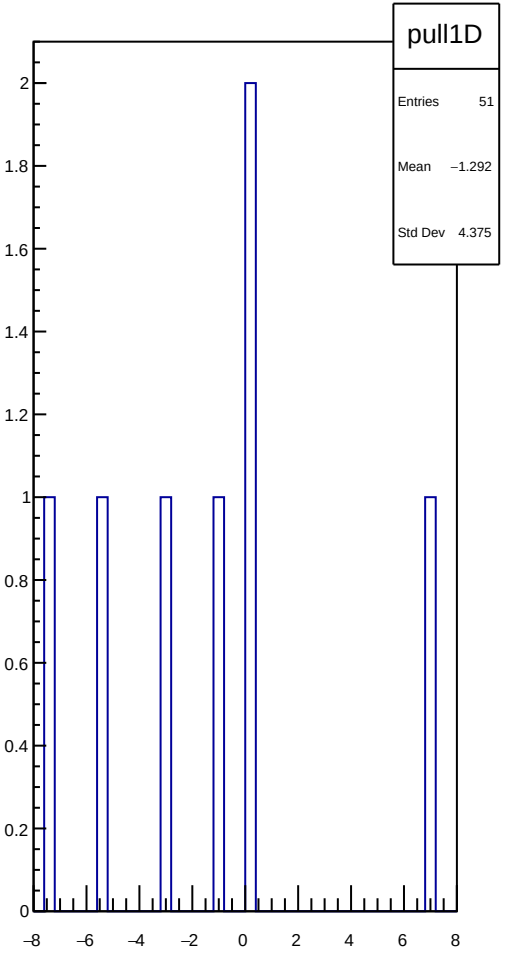
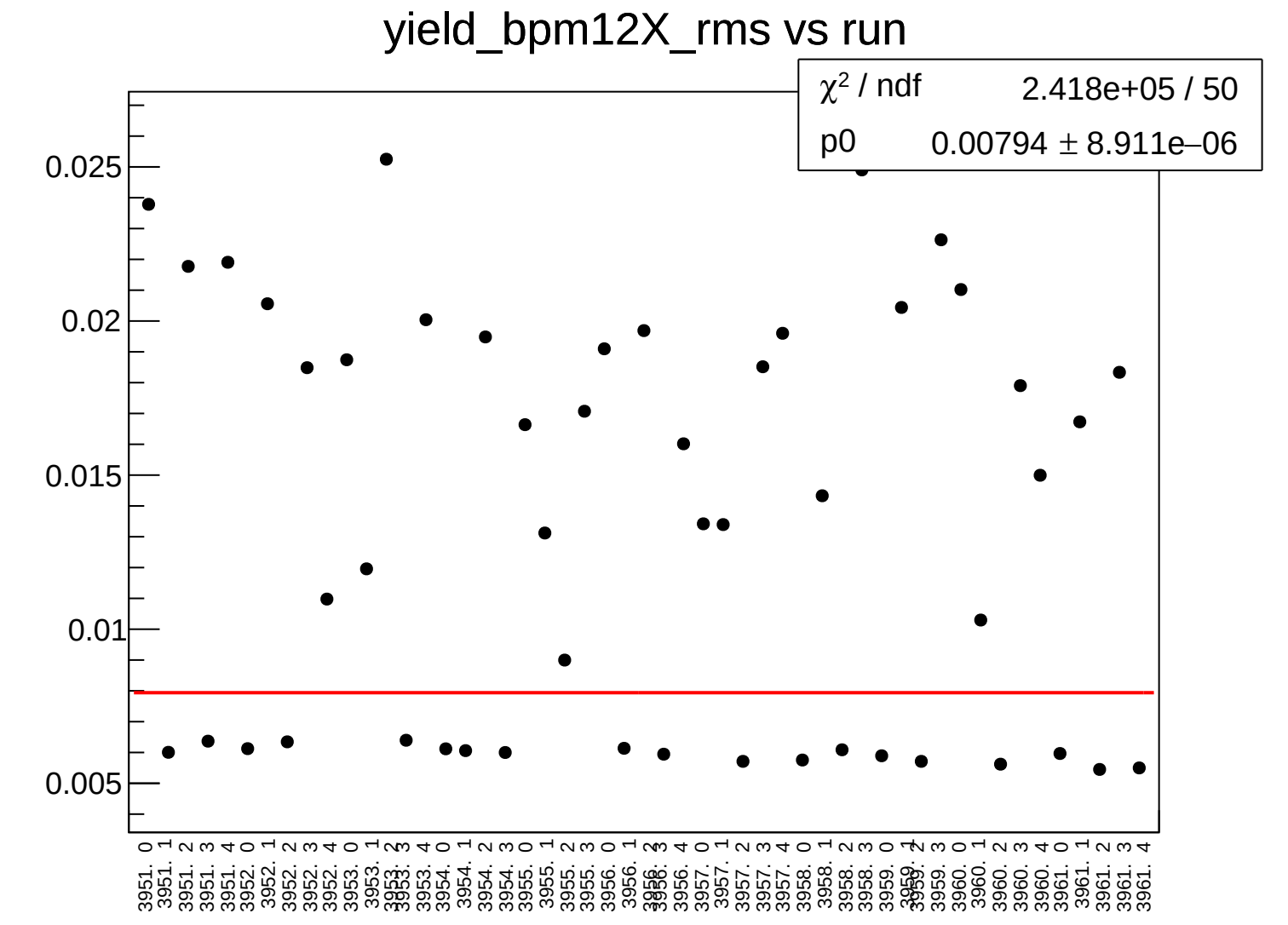
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


yield_bpm12X_mean vs run
χ² / ndf 4.739e+04 / 50
p0 −0.788 ± 1.26e−05
−0.774
−0.776
−0.778
−0.78
−0.782
−0.784
−0.786
−0.788
−0.79
pull
Entries 51
Mean 18.13
Std Dev 12.47
50
40
30
20
10
0
−10
−20
−30


pull1D
Entries 51
Mean −1.292
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_bpm12X_rms vs run
χ² / ndf 2.418e+05 / 50
p0 0.00794 ± 8.911e–06
0.025
0.02
0.015
0.01
0.005
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
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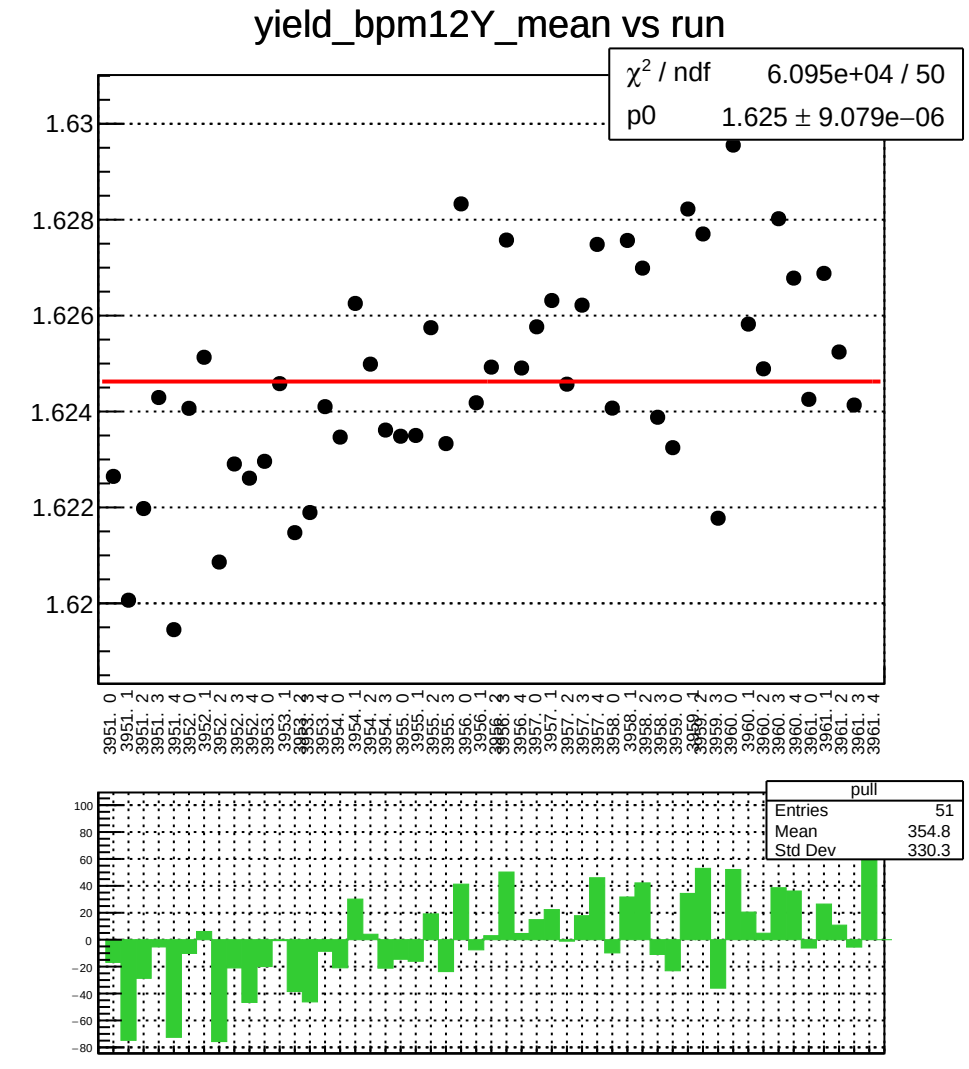
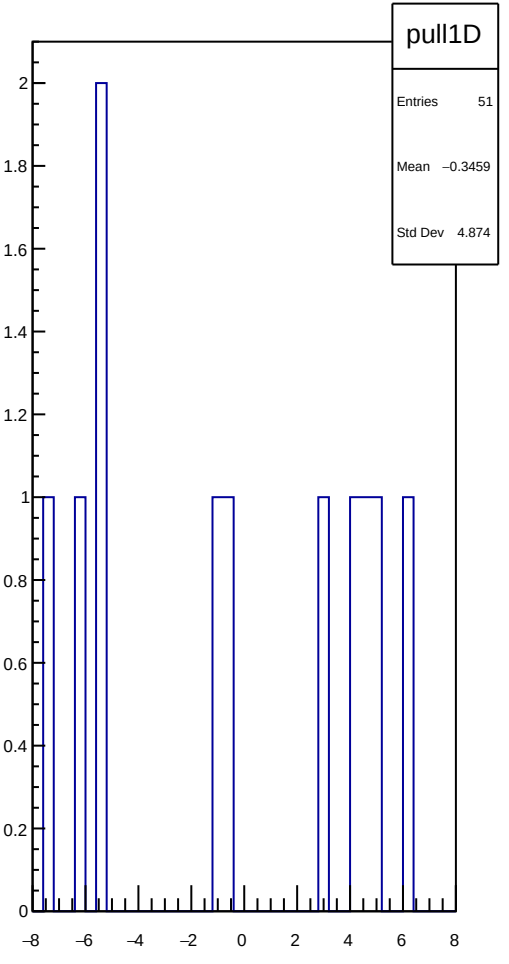
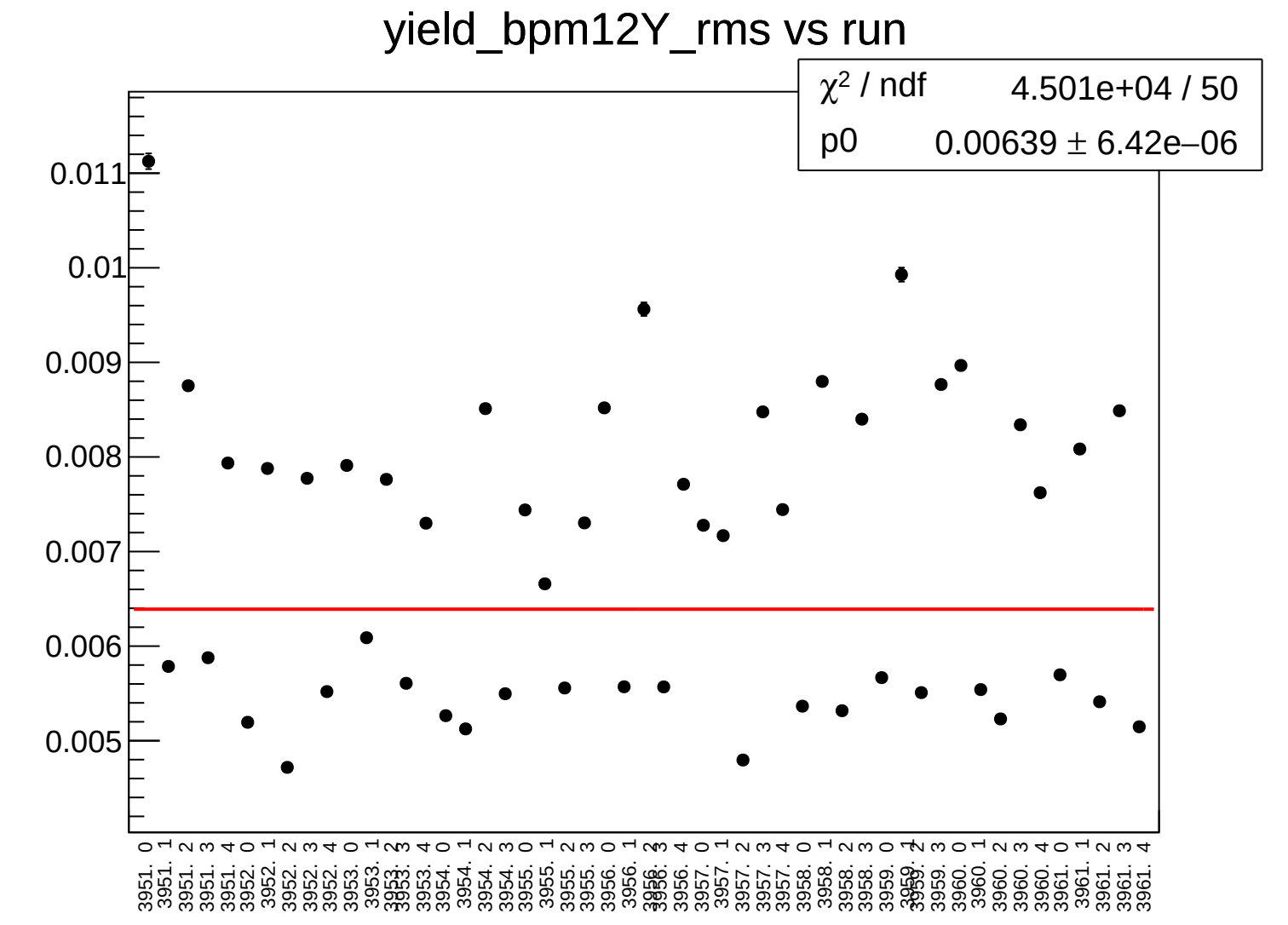
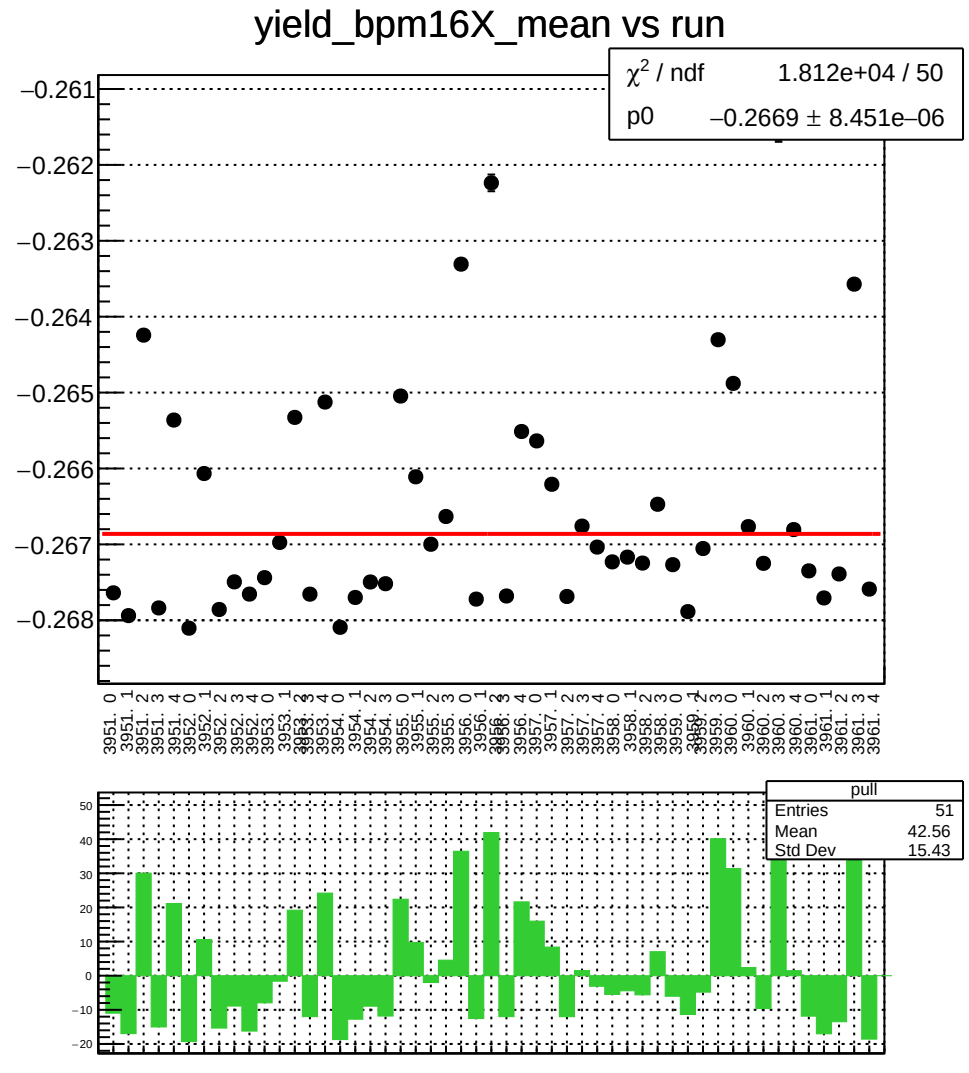
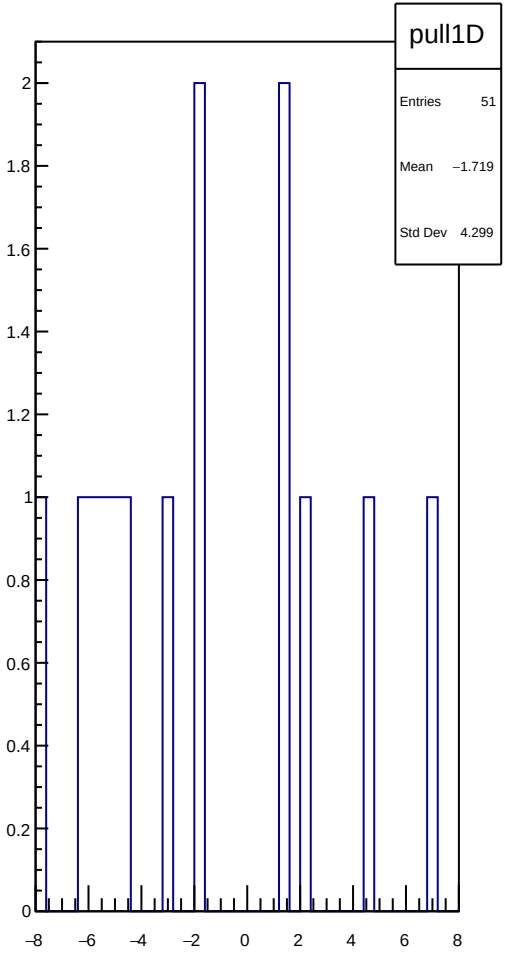
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

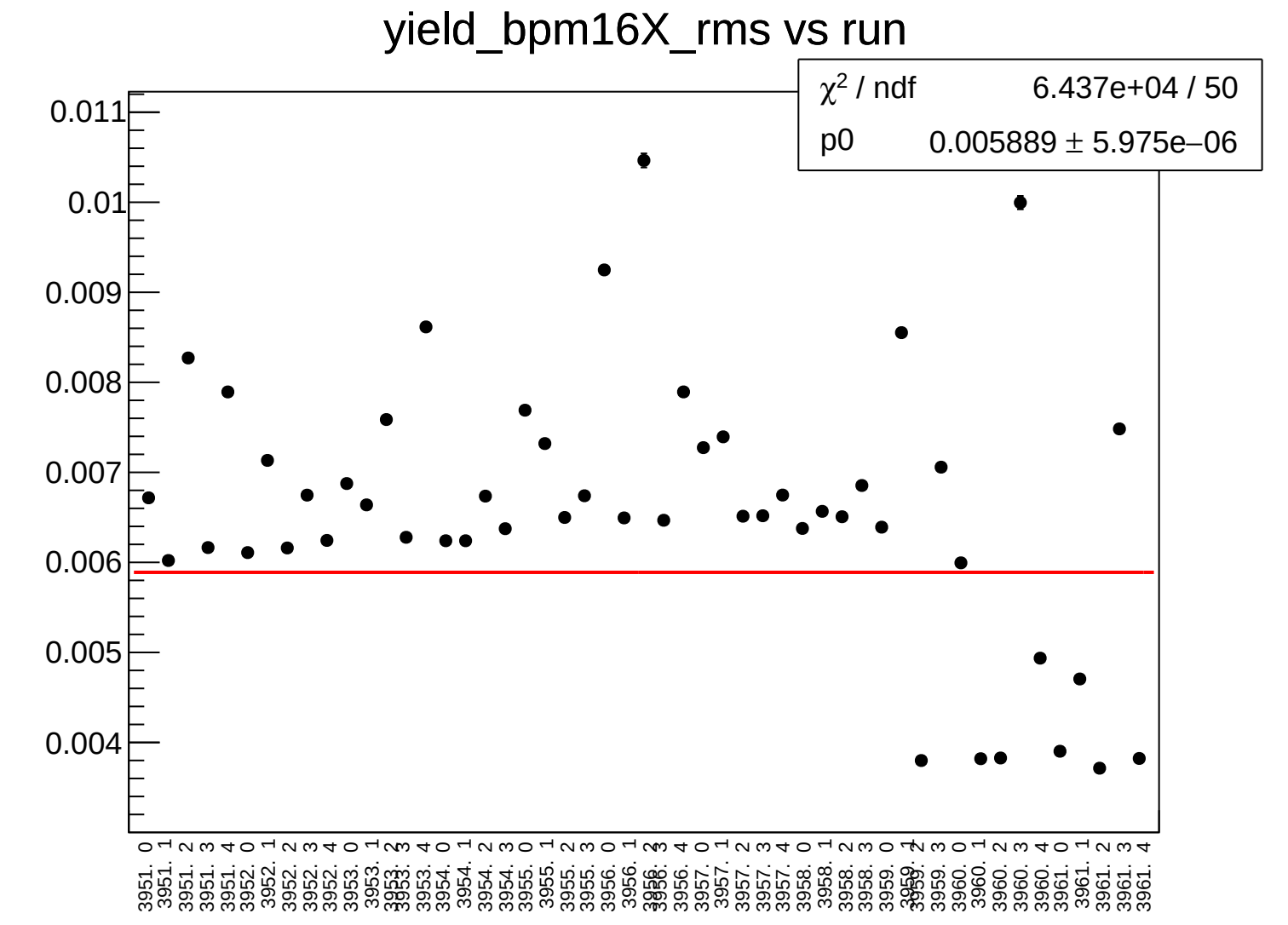

yield_bpm12Y_mean vs run
χ² / ndf 6.095e+04 / 50
p0 1.625 ± 9.079e−06
1.63
1.628
1.626
1.624
1.622
1.62
pull
Entries 51
Mean 354.8
Std Dev 330.3
100
80
60
40
20
0
−20
−40
−60
−80

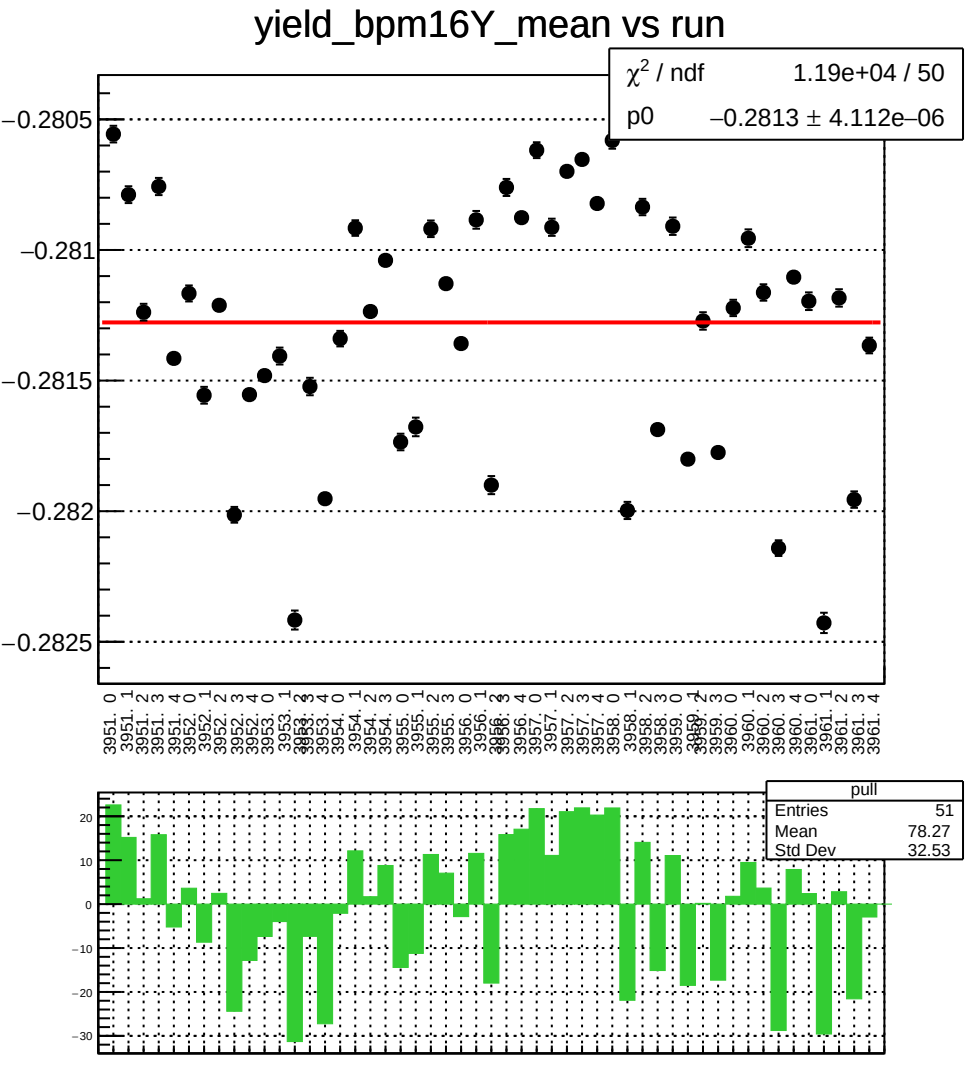

pull1D
Entries 51
Mean −0.3459
Std Dev 4.874
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

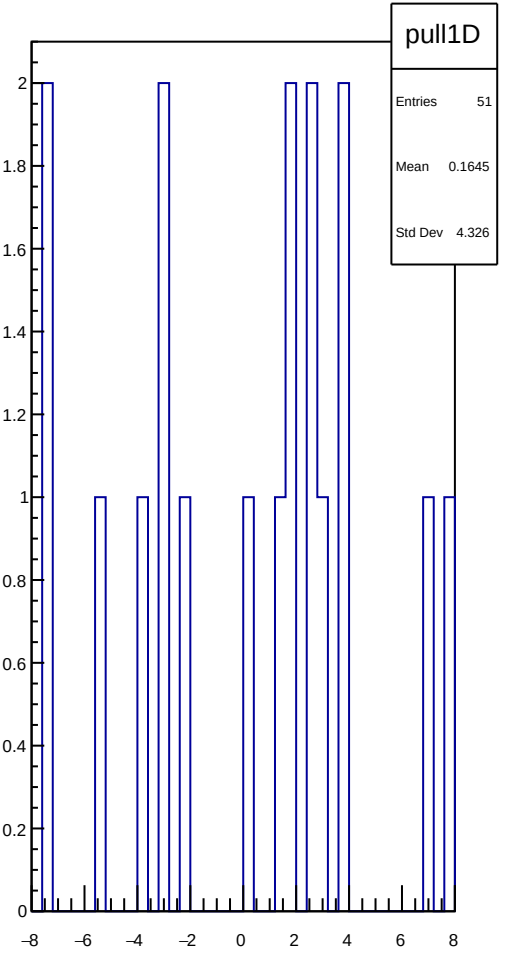

yield_bpm12Y_rms vs run
χ² / ndf 4.501e+04 / 50
p0 0.00639 ± 6.42e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

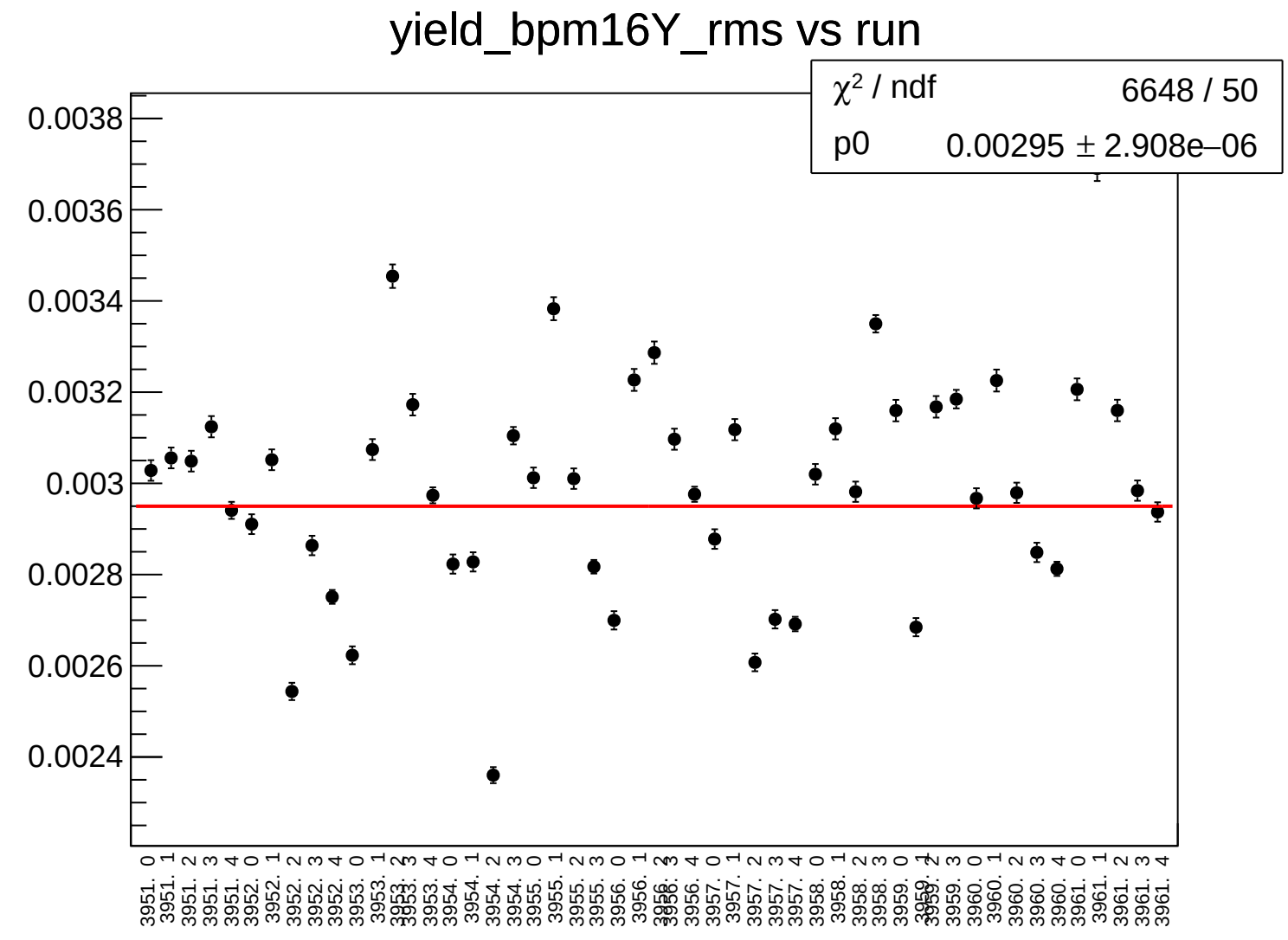

yield_bpm16X_mean vs run
χ² / ndf 1.812e+04 / 50
p0 −0.2669 ± 8.451e−06
pull
Entries 51
Mean 42.56
Std Dev 15.43

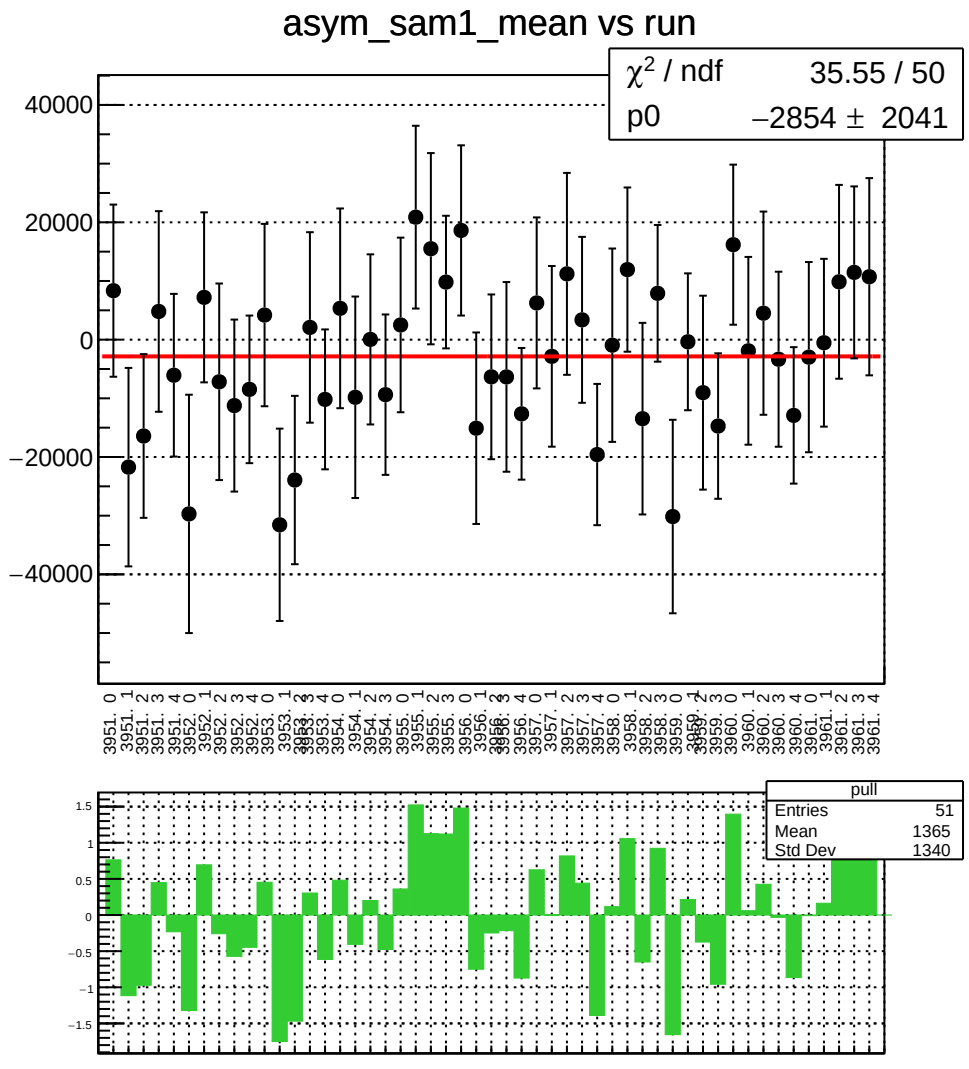

pull1D
Entries 51
Mean −1.719
Std Dev 4.299

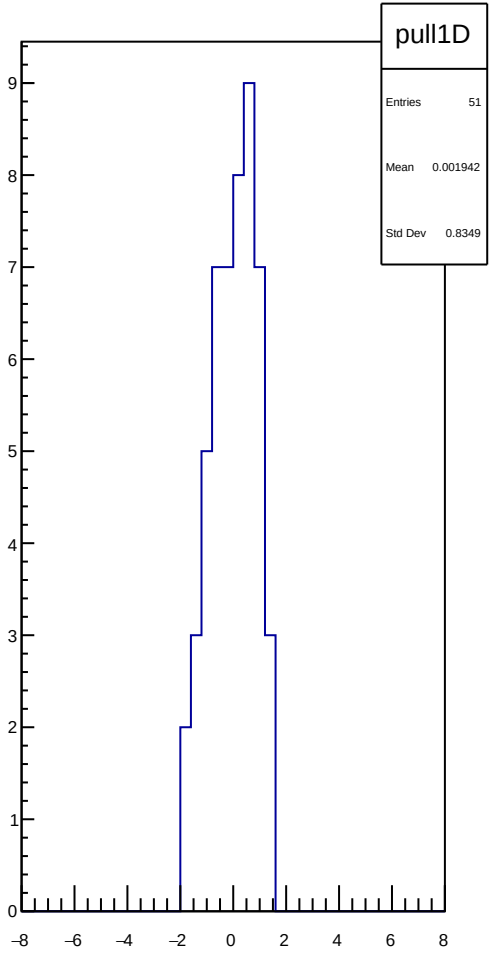

yield_bpm16X_rms vs run
χ² / ndf 6.437e+04 / 50
p0 0.005889 ± 5.975e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

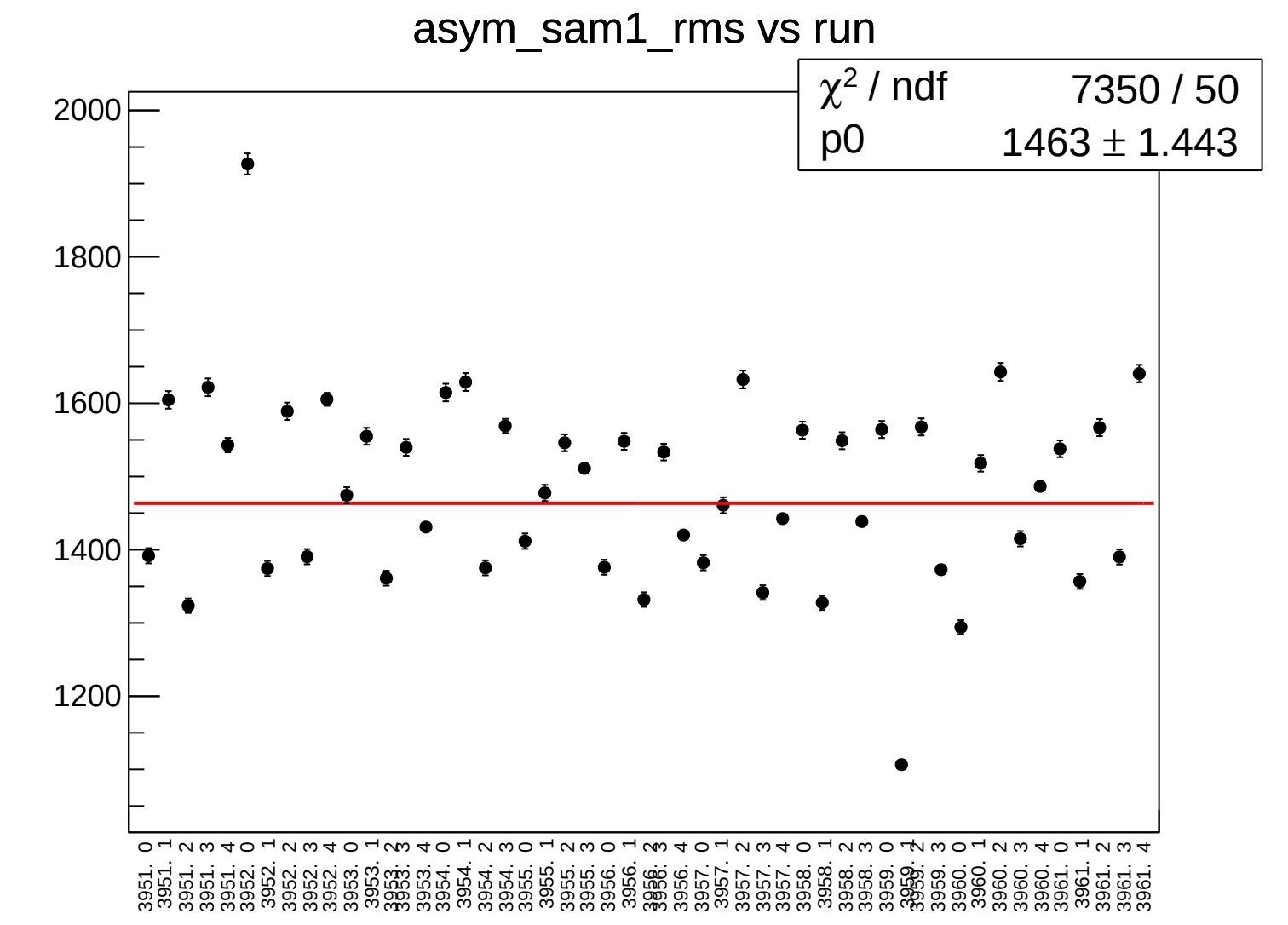

yield_bpm16Y_mean vs run
χ² / ndf 1.19e+04 / 50
p0 −0.2813 ± 4.112e−06
−0.2805
−0.281
−0.2815
−0.282
−0.2825
pull
Entries 51
Mean 78.27
Std Dev 32.53
20
10
0
−10
−20
−30

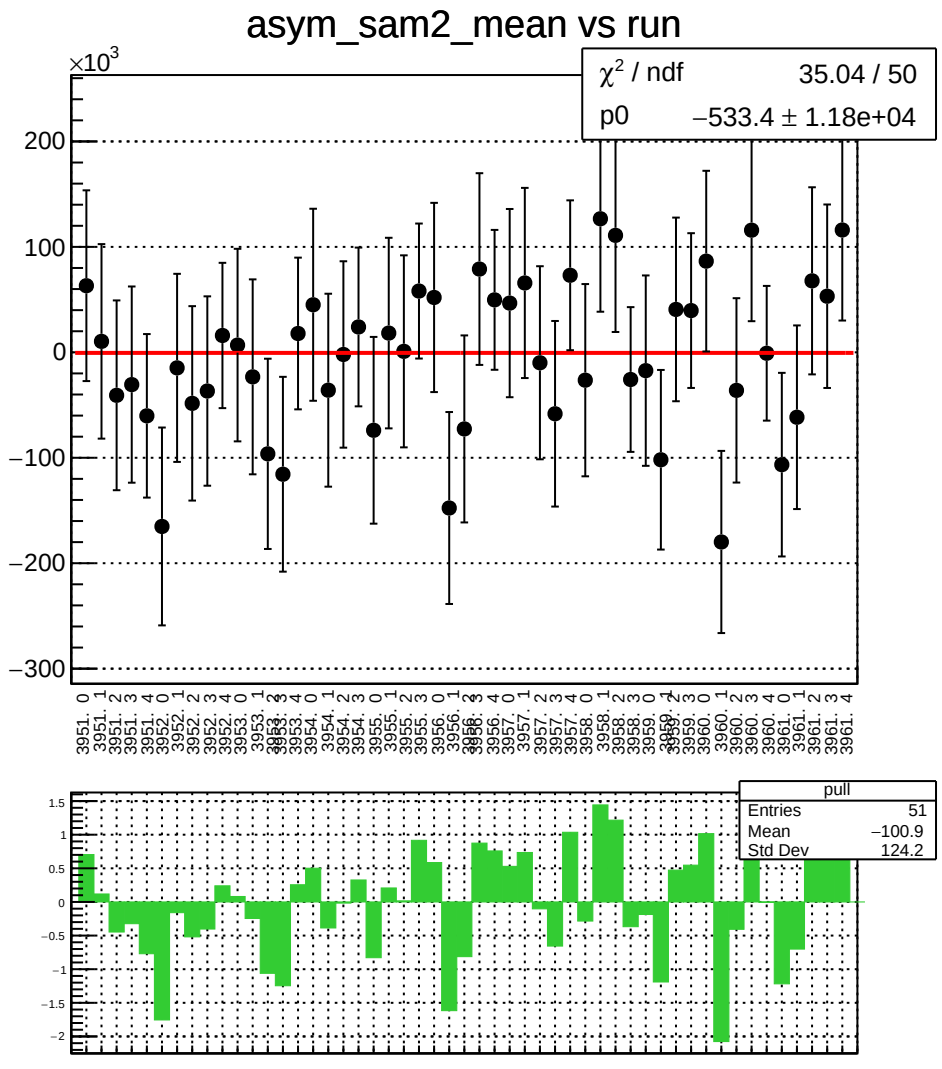

pull1D
Entries 51
Mean 0.1645
Std Dev 4.326
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

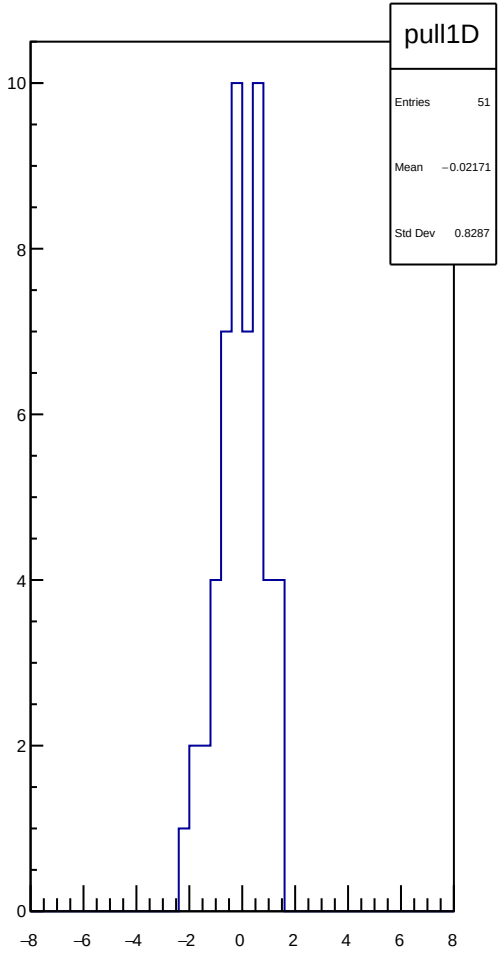

yield_bpm16Y_rms vs run
χ² / ndf 6648 / 50
p0 0.00295 ± 2.908e–06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

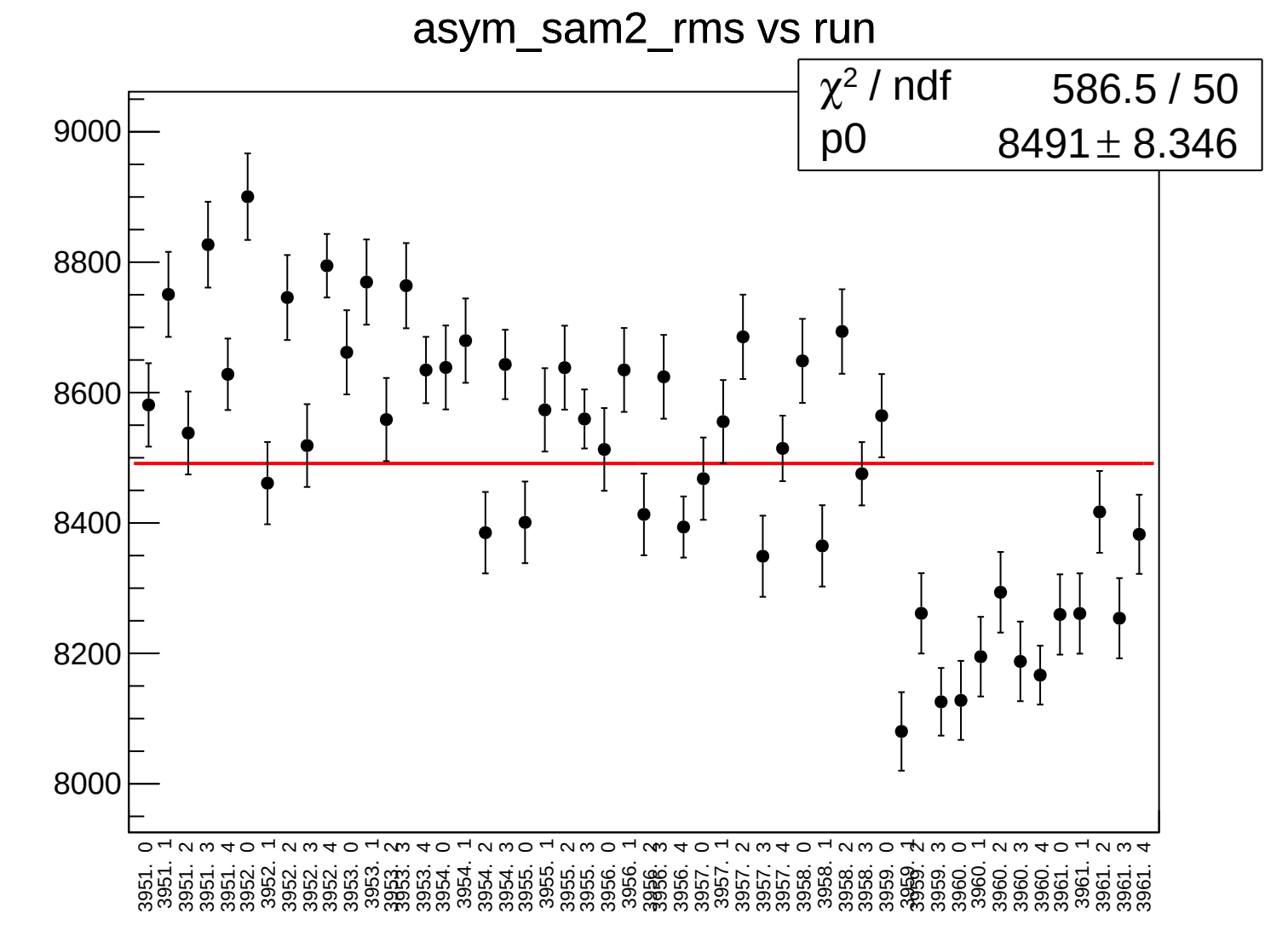

asym_sam1_mean vs run
χ² / ndf 35.55 / 50
p0 −2854 ± 2041
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 1365
Std Dev 1340
1.5
1
0.5
0
−0.5
−1
−1.5

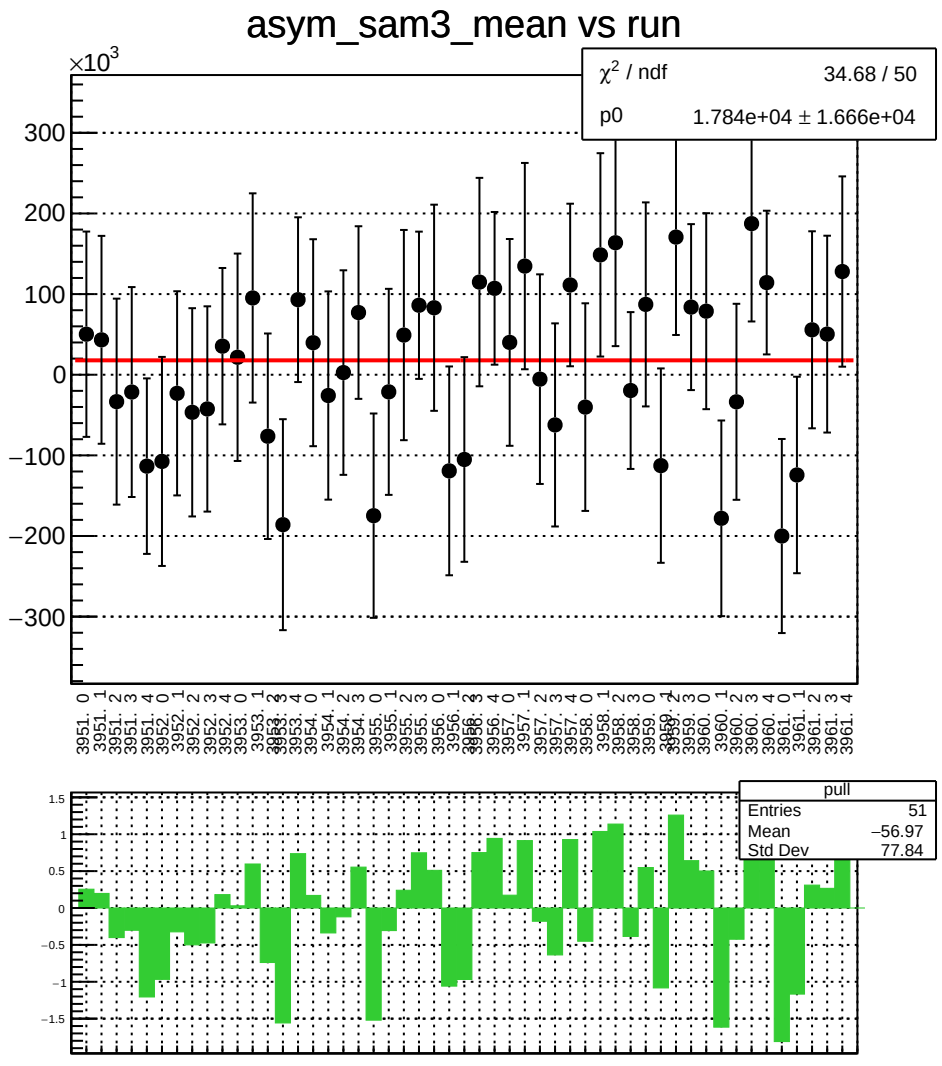

pull1D
Entries 51
Mean 0.001942
Std Dev 0.8349
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

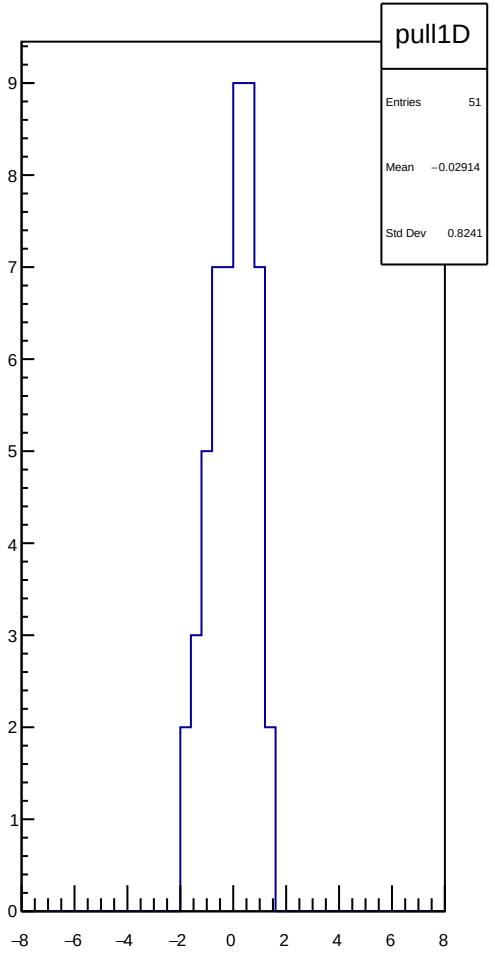

asym_sam1_rms vs run
χ² / ndf 7350 / 50
p0 1463 ± 1.443
2000
1800
1600
1400
1200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

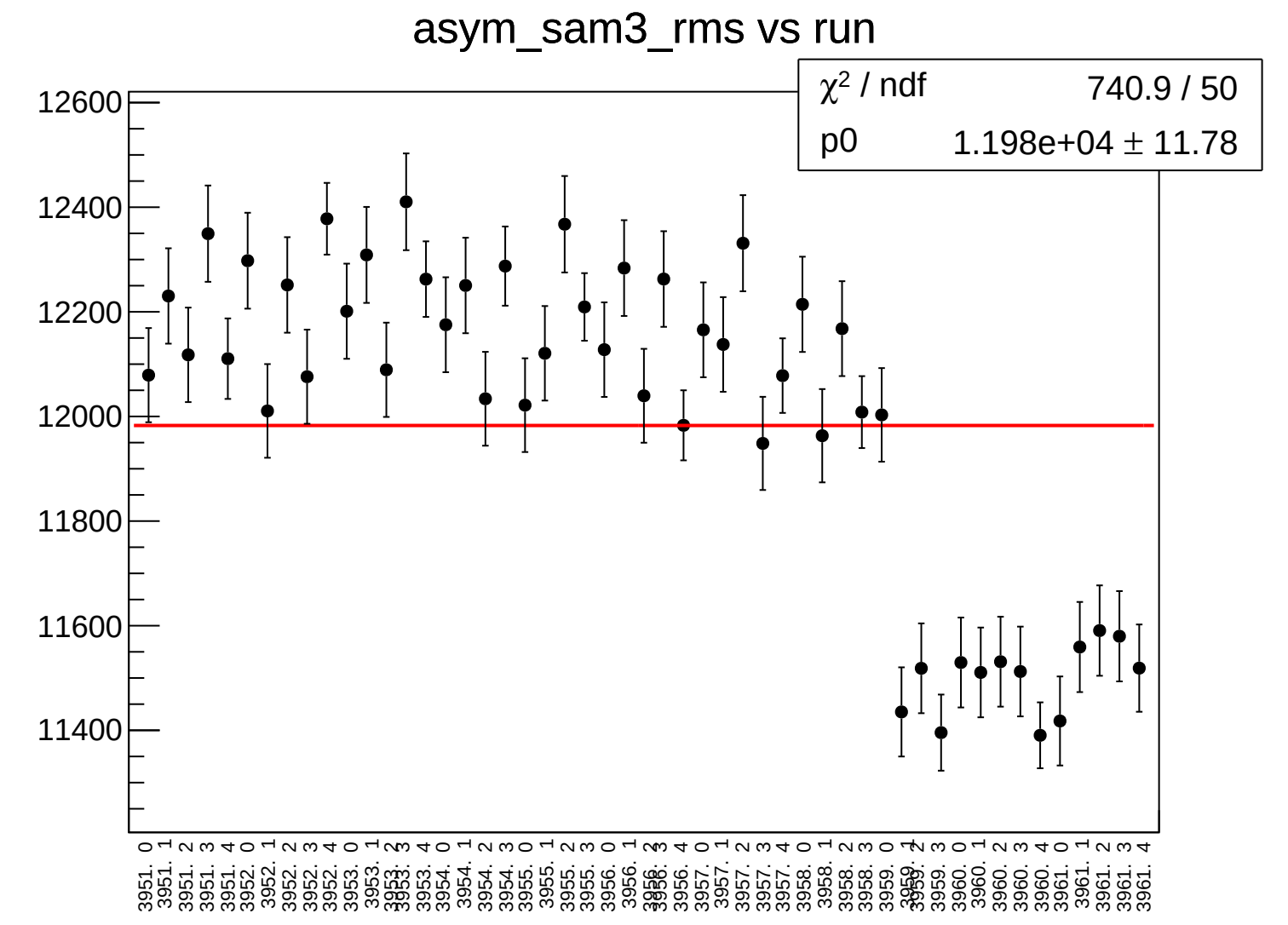

asym_sam2_mean vs run
×10^3
χ² / ndf 35.04 / 50
p0 −533.4 ± 1.18e+04
200
100
0
−100
−200
−300
pull
Entries 51
Mean −100.9
Std Dev 124.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

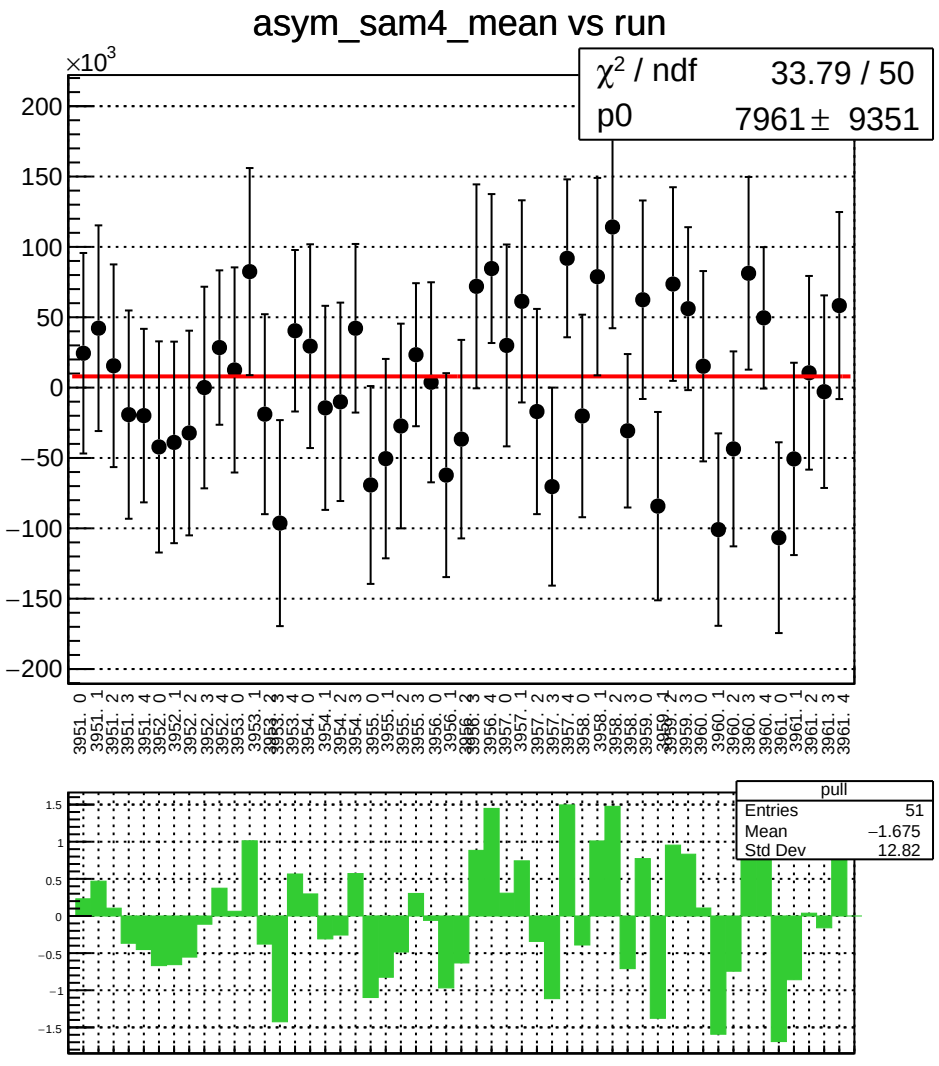

pull1D
Entries 51
Mean −0.02171
Std Dev 0.8287
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

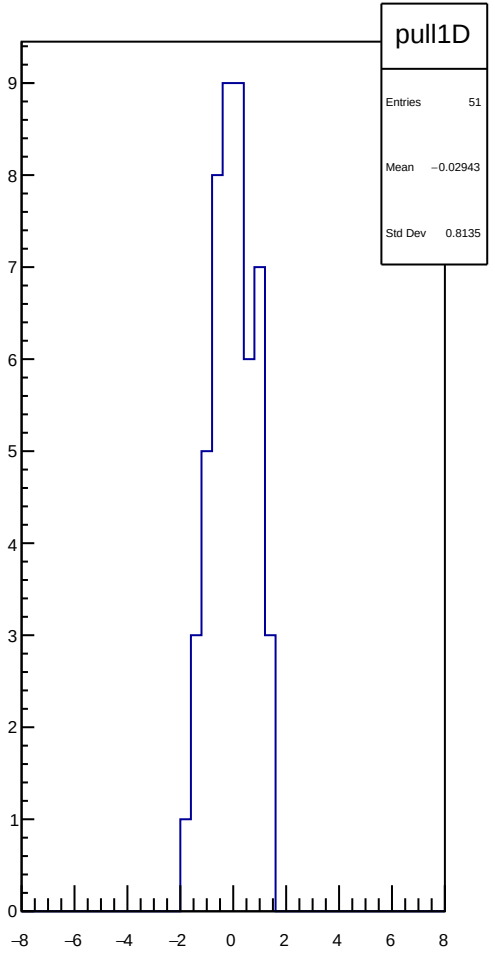

asym_sam2_rms vs run
χ² / ndf 586.5 / 50
p0 8491 ± 8.346
9000
8800
8600
8400
8200
8000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

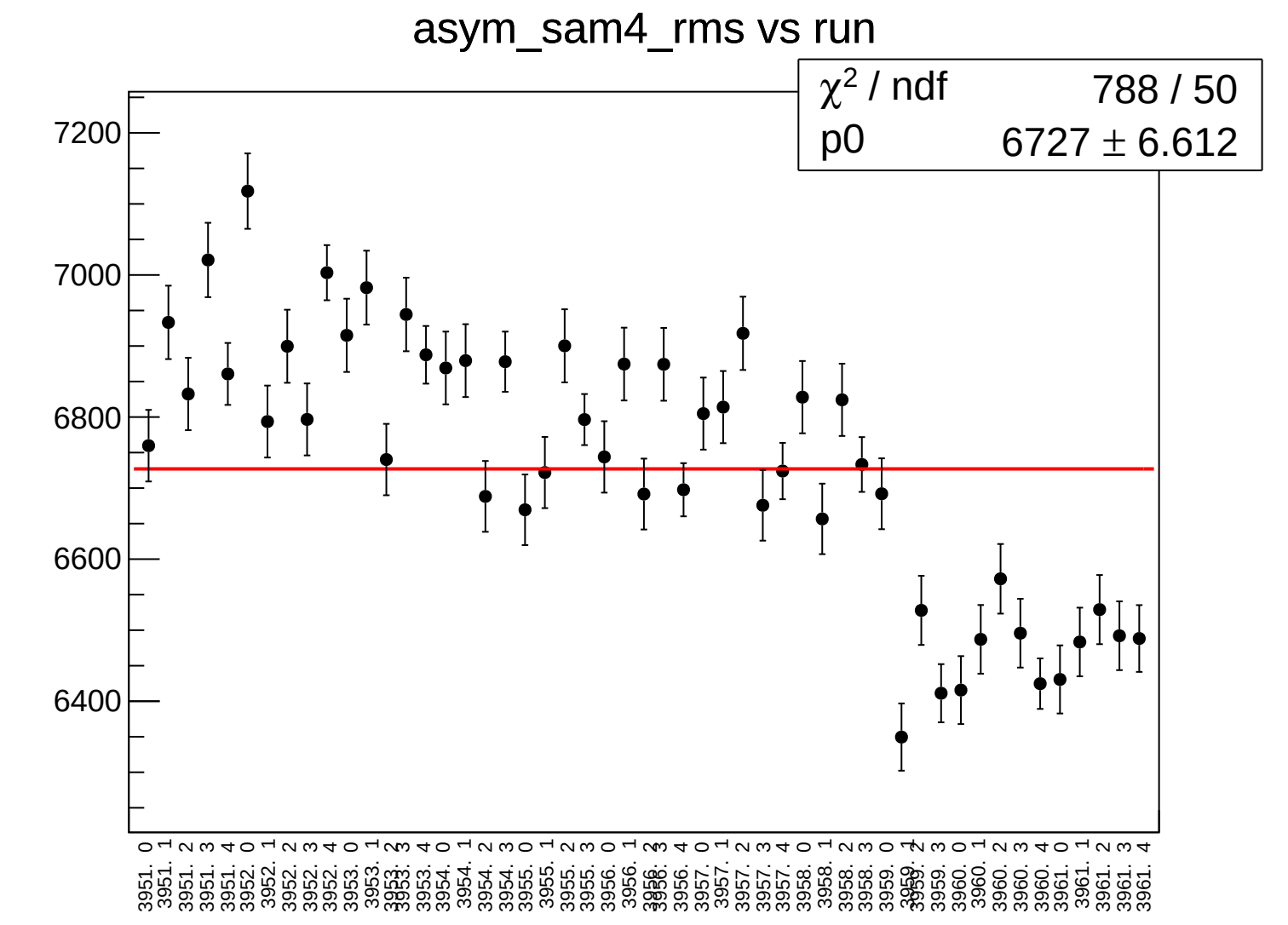

asym_sam3_mean vs run
×10^3
χ² / ndf 34.68 / 50
p0 1.784e+04 ± 1.666e+04
300
200
100
0
−100
−200
−300
pull
Entries 51
Mean −56.97
Std Dev 77.84
1.5
1
0.5
0
−0.5
−1
−1.5

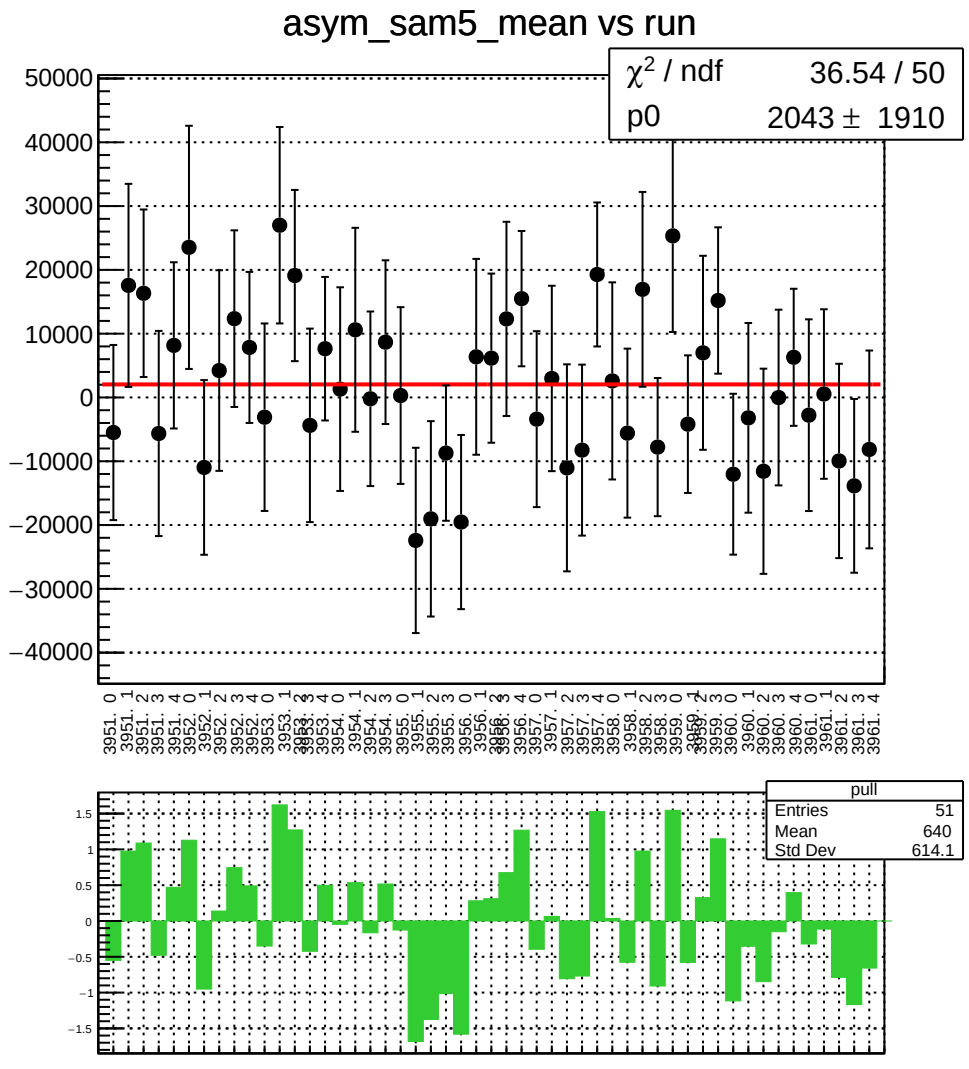

pull1D
Entries 51
Mean −0.02914
Std Dev 0.8241
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

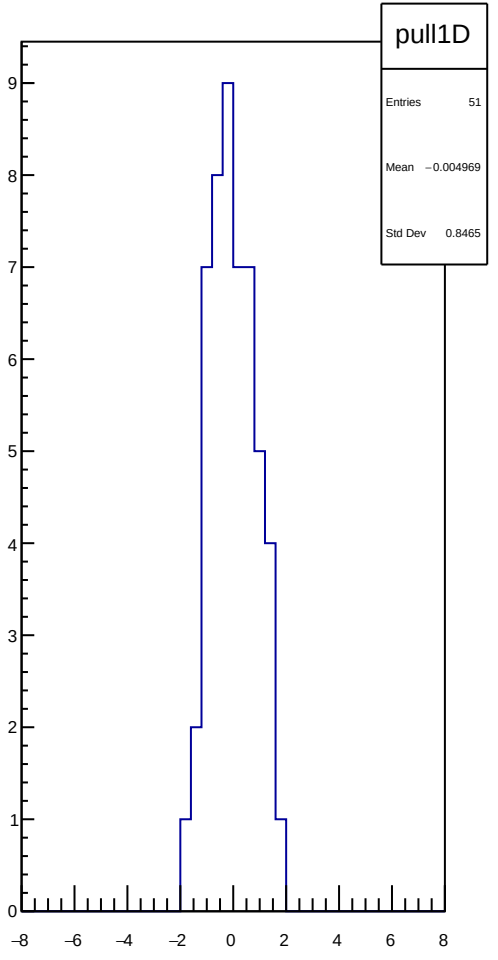

asym_sam3_rms vs run
χ² / ndf 740.9 / 50
p0 1.198e+04 ± 11.78
12600
12400
12200
12000
11800
11600
11400
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

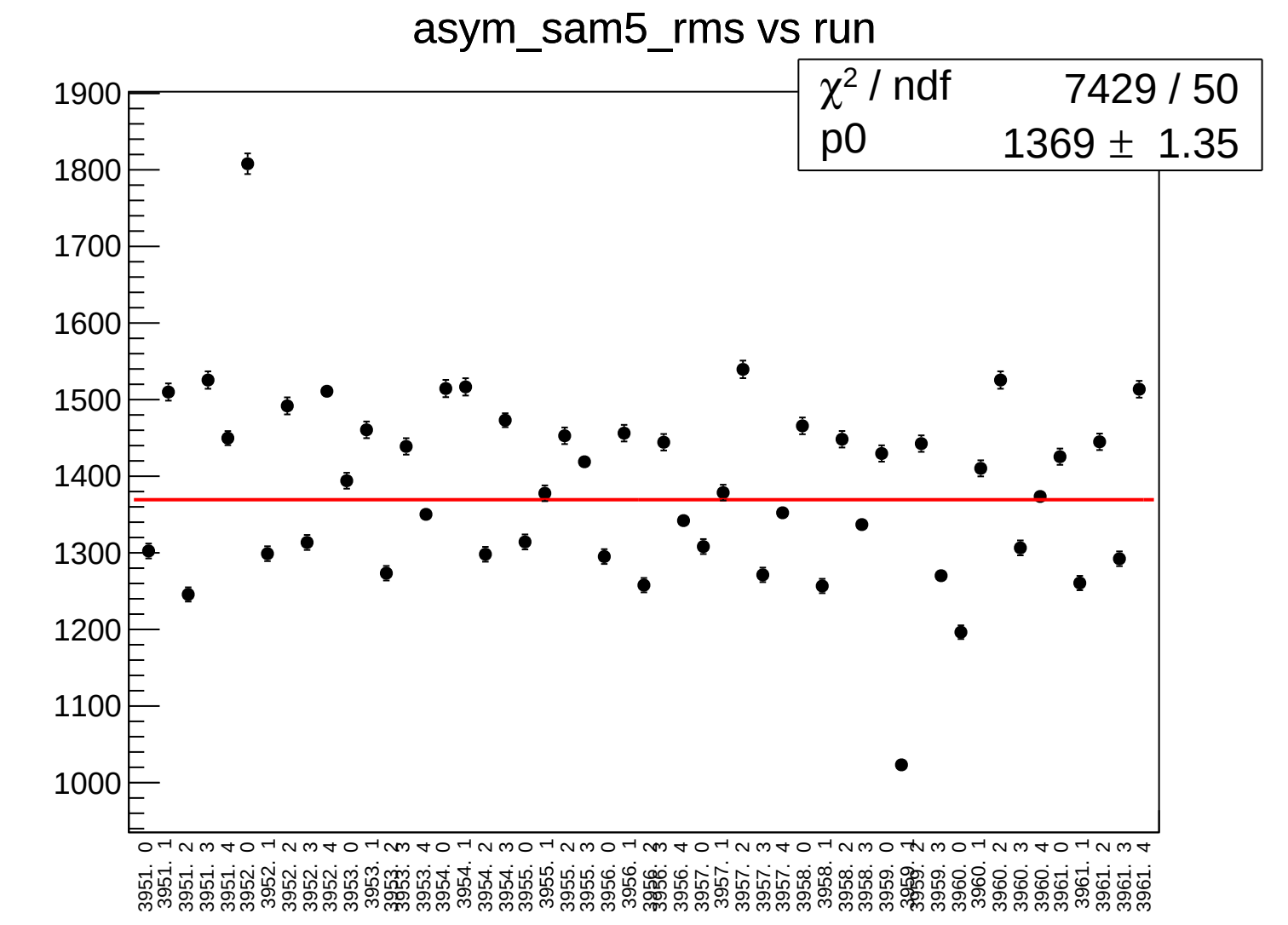

asym_sam4_mean vs run
×10^3
χ² / ndf 33.79 / 50
p0 7961 ± 9351
pull
Entries 51
Mean −1.675
Std Dev 12.82

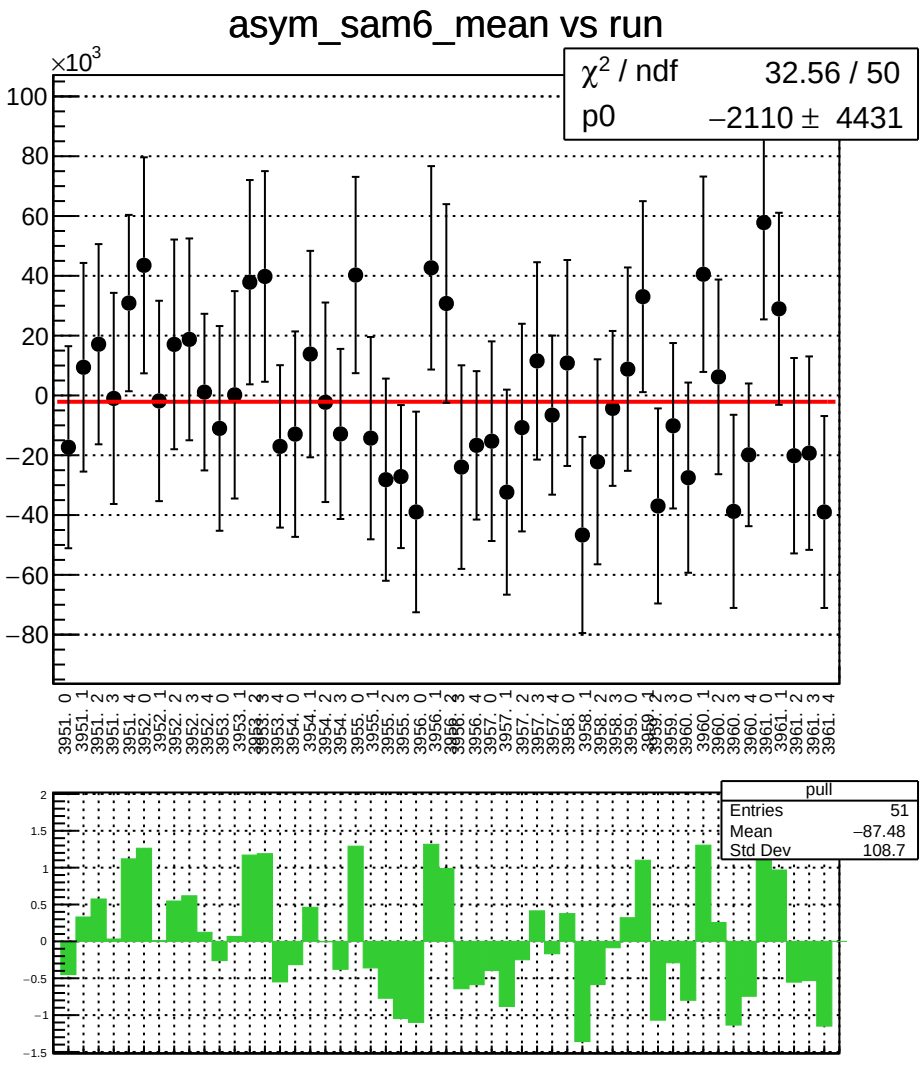

pull1D
Entries 51
Mean −0.02943
Std Dev 0.8135

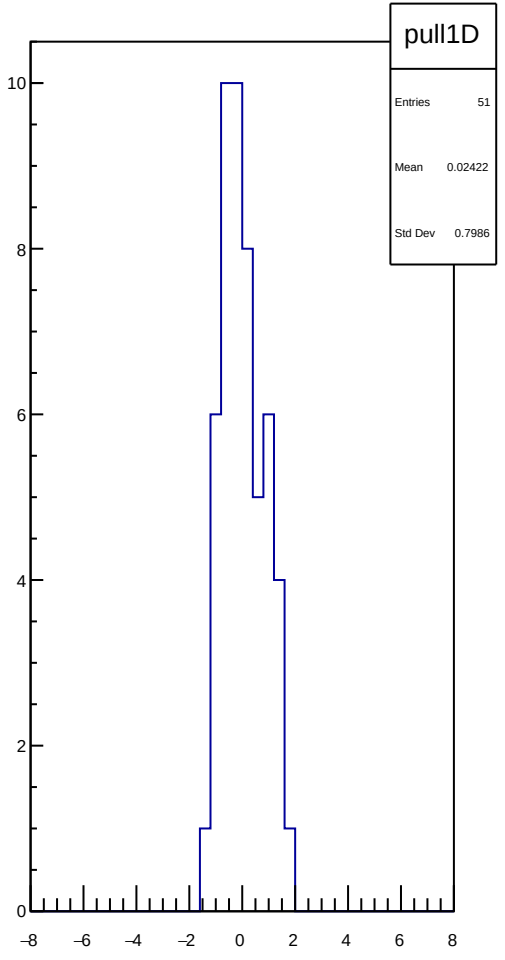

asym_sam4_rms vs run
χ² / ndf 788 / 50
p0 6727 ± 6.612
7200
7000
6800
6600
6400
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

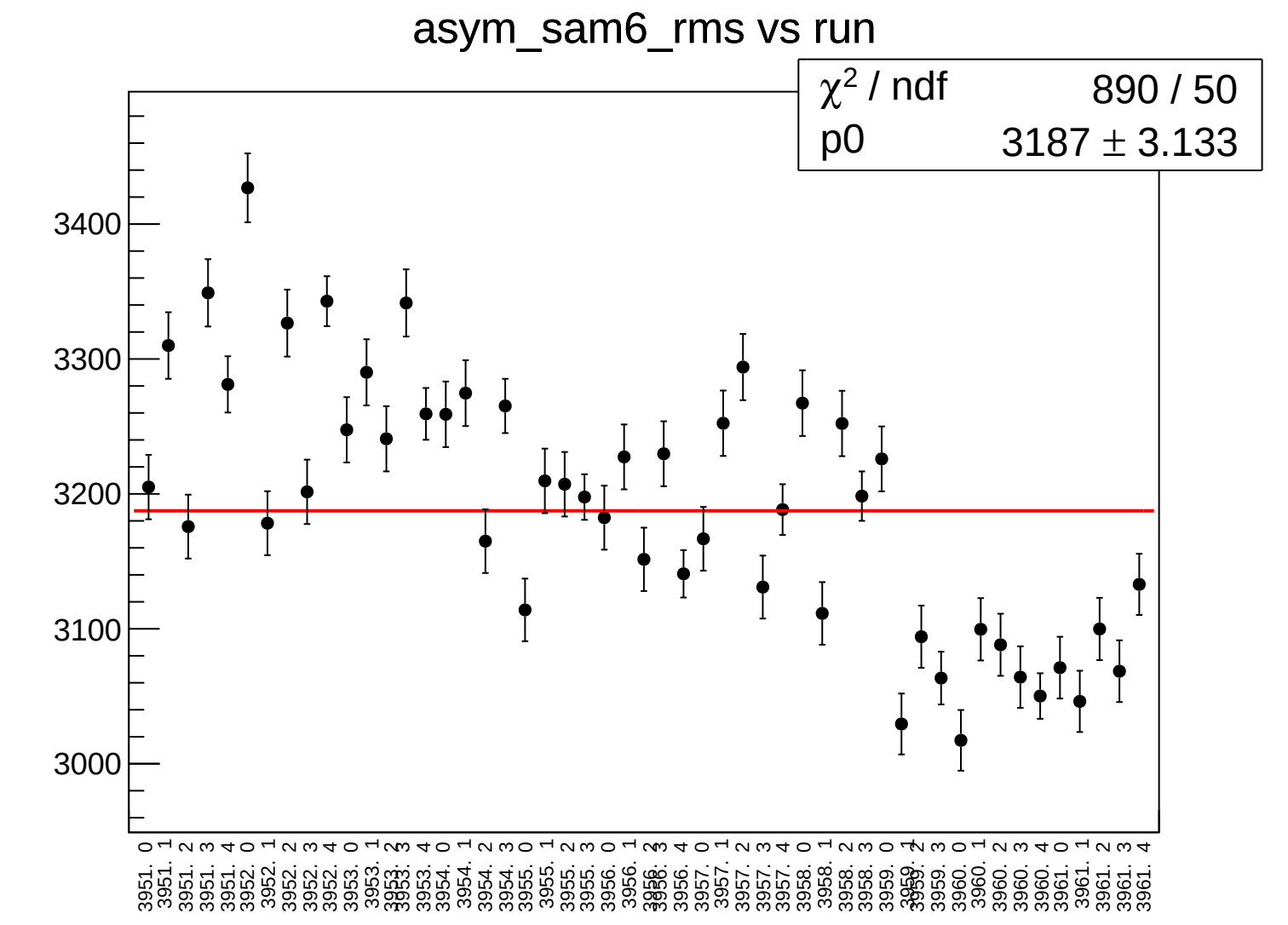

asym_sam5_mean vs run
χ² / ndf 36.54 / 50
p0 2043 ± 1910
pull
Entries 51
Mean 640
Std Dev 614.1

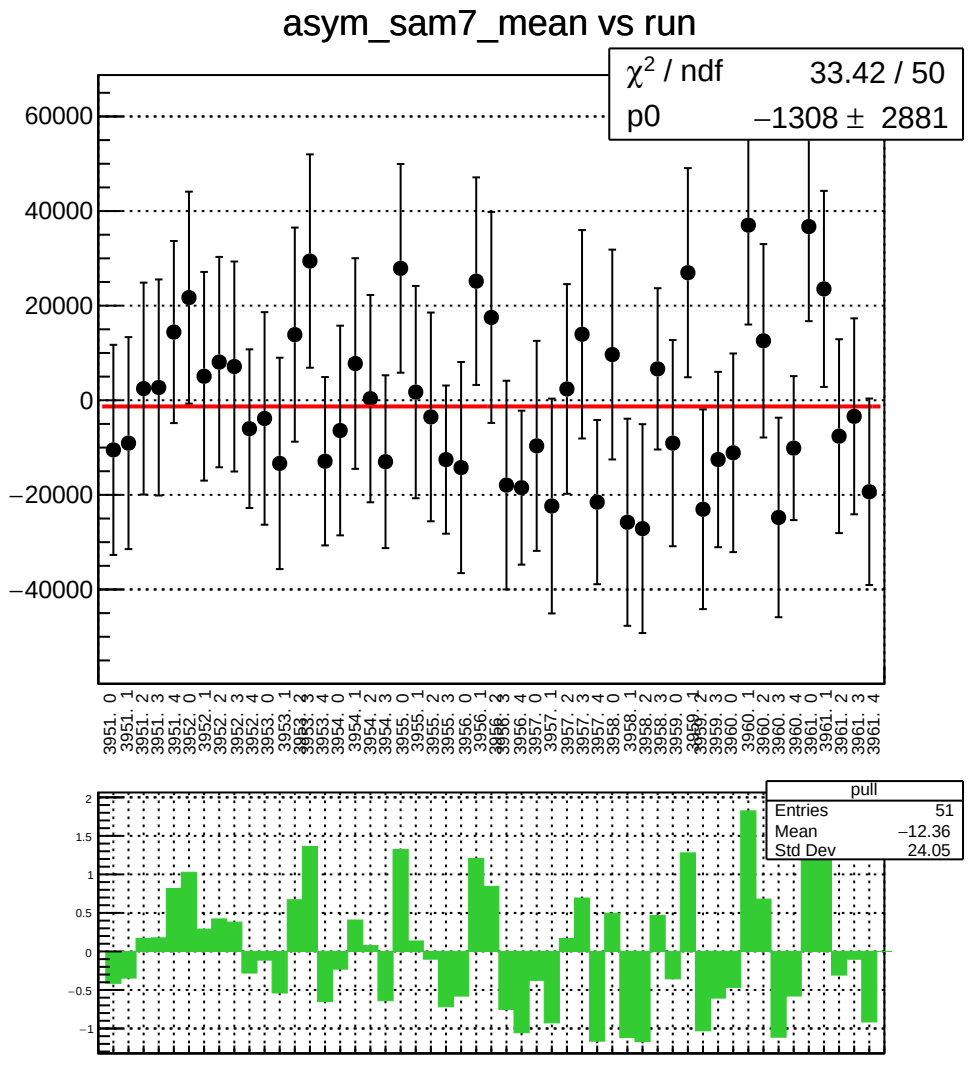

pull1D
Entries 51
Mean −0.004969
Std Dev 0.8465

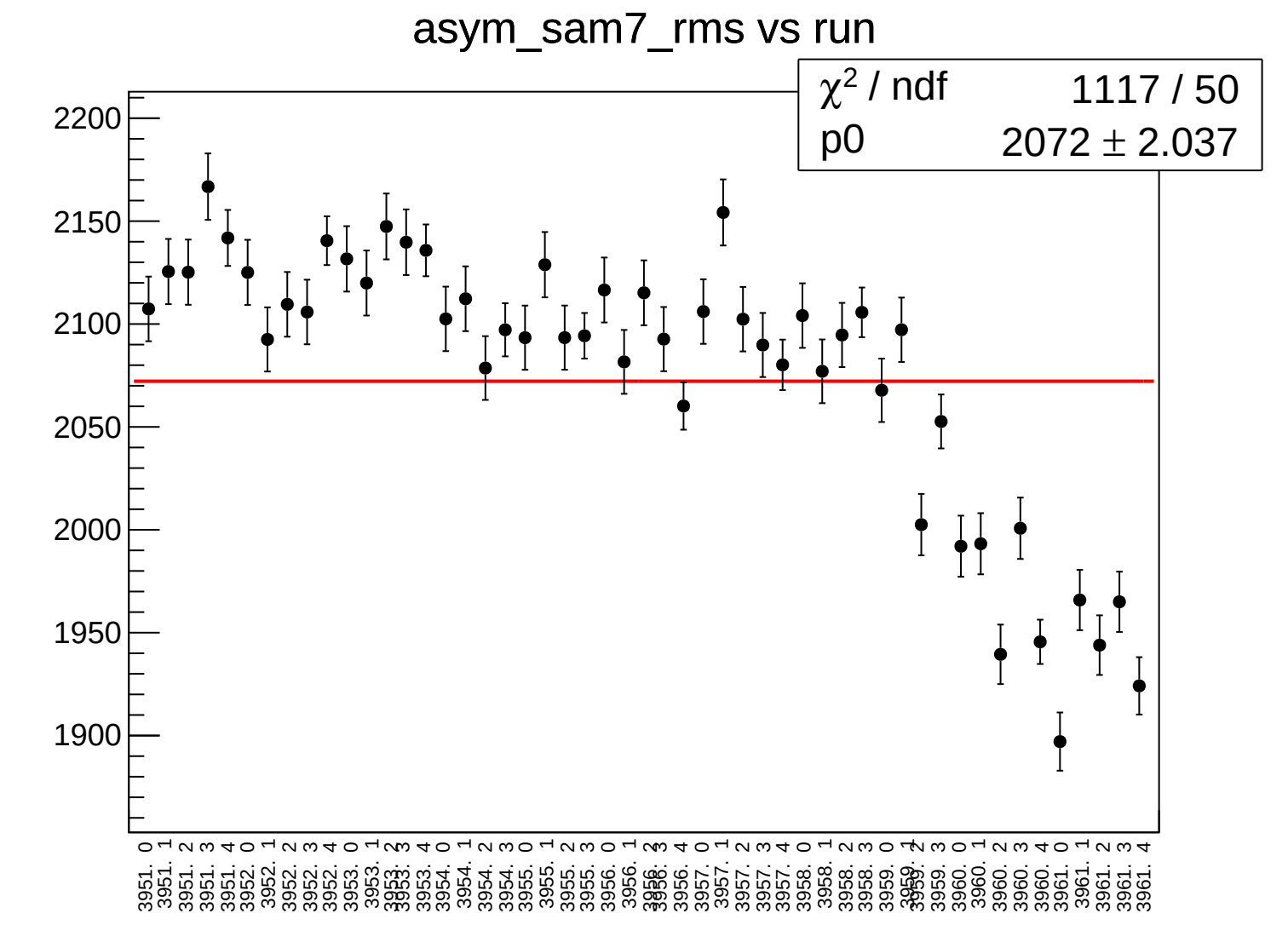

asym_sam5_rms vs run
χ² / ndf 7429 / 50
p0 1369 ± 1.35
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

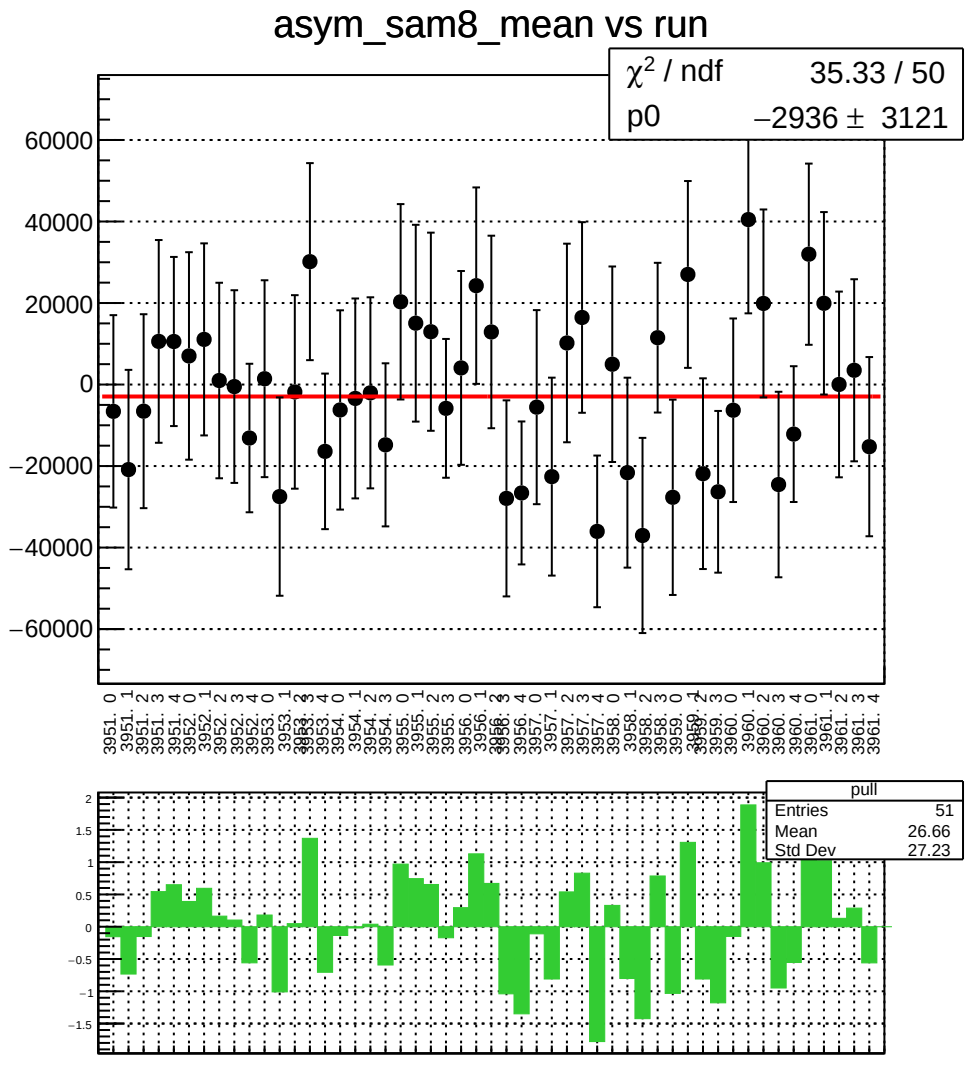

asym_sam6_mean vs run
×10^3
χ² / ndf 32.56 / 50
p0 −2110 ± 4431
pull
Entries 51
Mean −87.48
Std Dev 108.7

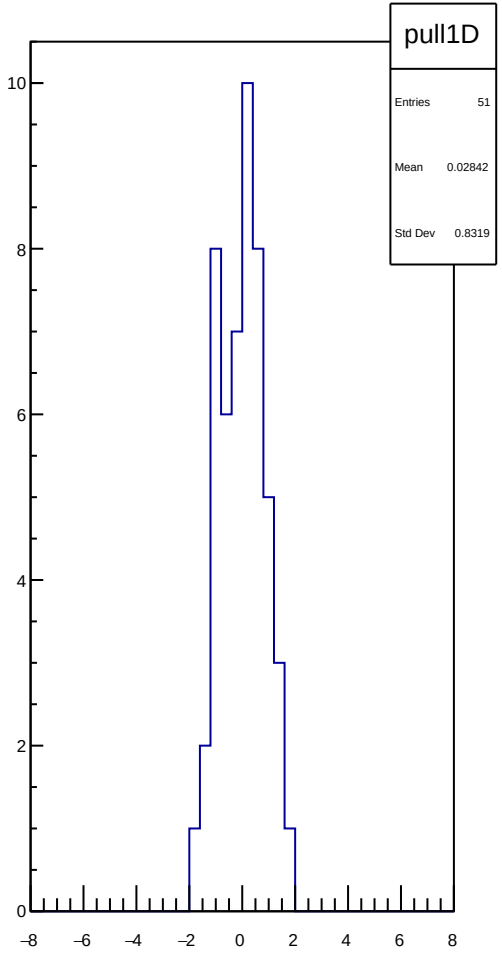

pull1D
Entries 51
Mean 0.02422
Std Dev 0.7986

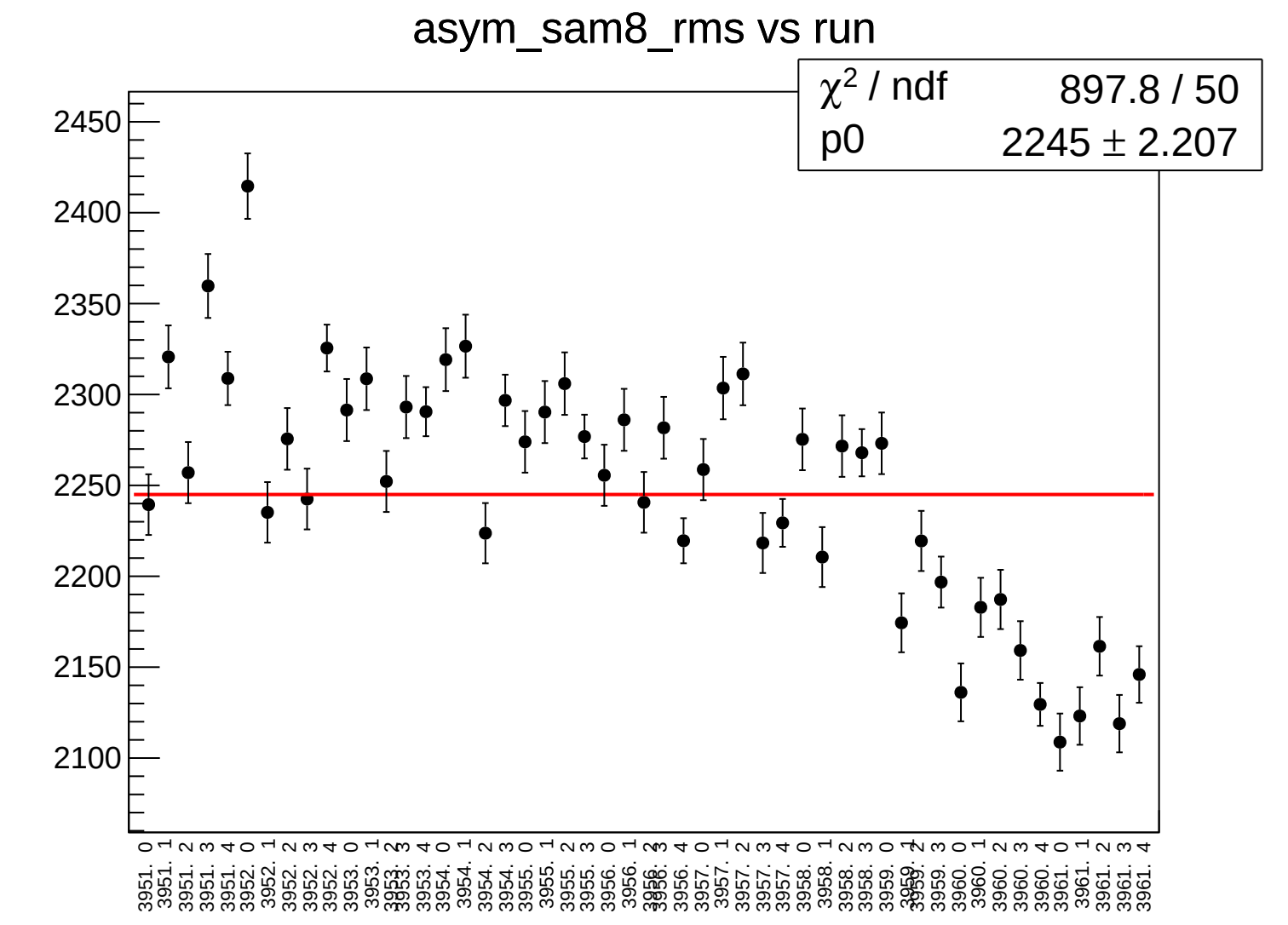

asym_sam6_rms vs run
χ² / ndf 890 / 50
p0 3187 ± 3.133
3400
3300
3200
3100
3000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

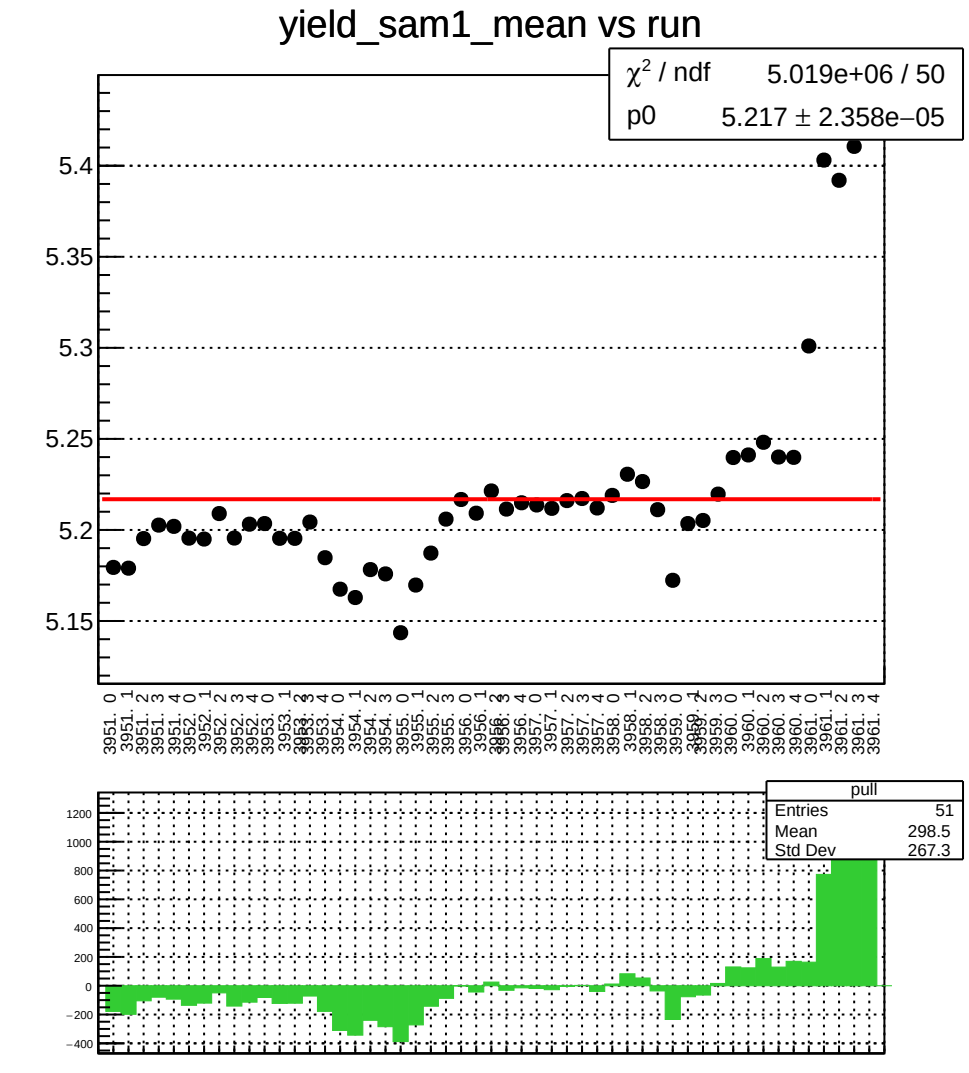

asym_sam7_mean vs run
χ² / ndf 33.42 / 50
p0 −1308 ± 2881
60000
40000
20000
0
−20000
−40000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4
pull
Entries 51
Mean −12.36
Std Dev 24.05
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 51
Mean 0.02685
Std Dev 0.809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

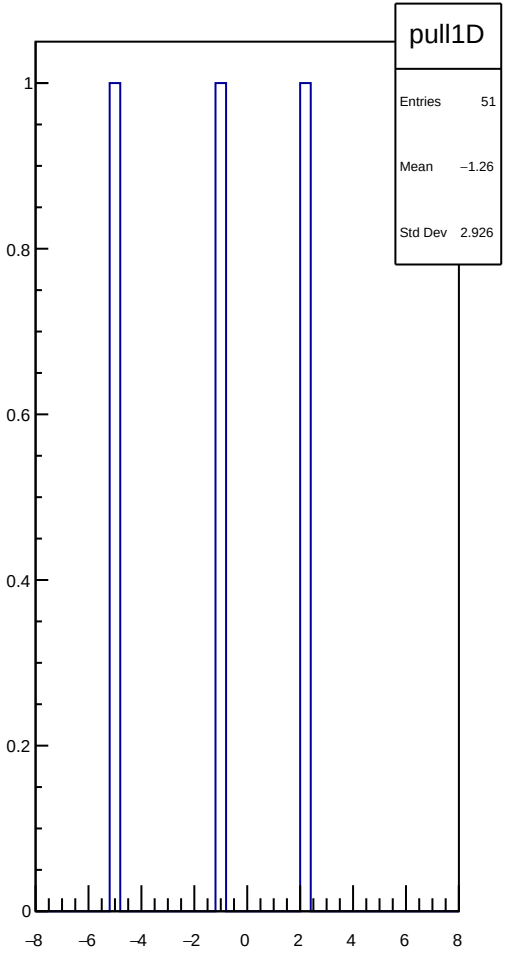

asym_sam7_rms vs run
χ^2 / ndf 1117 / 50
p0 2072 ± 2.037
2200
2150
2100
2050
2000
1950
1900
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

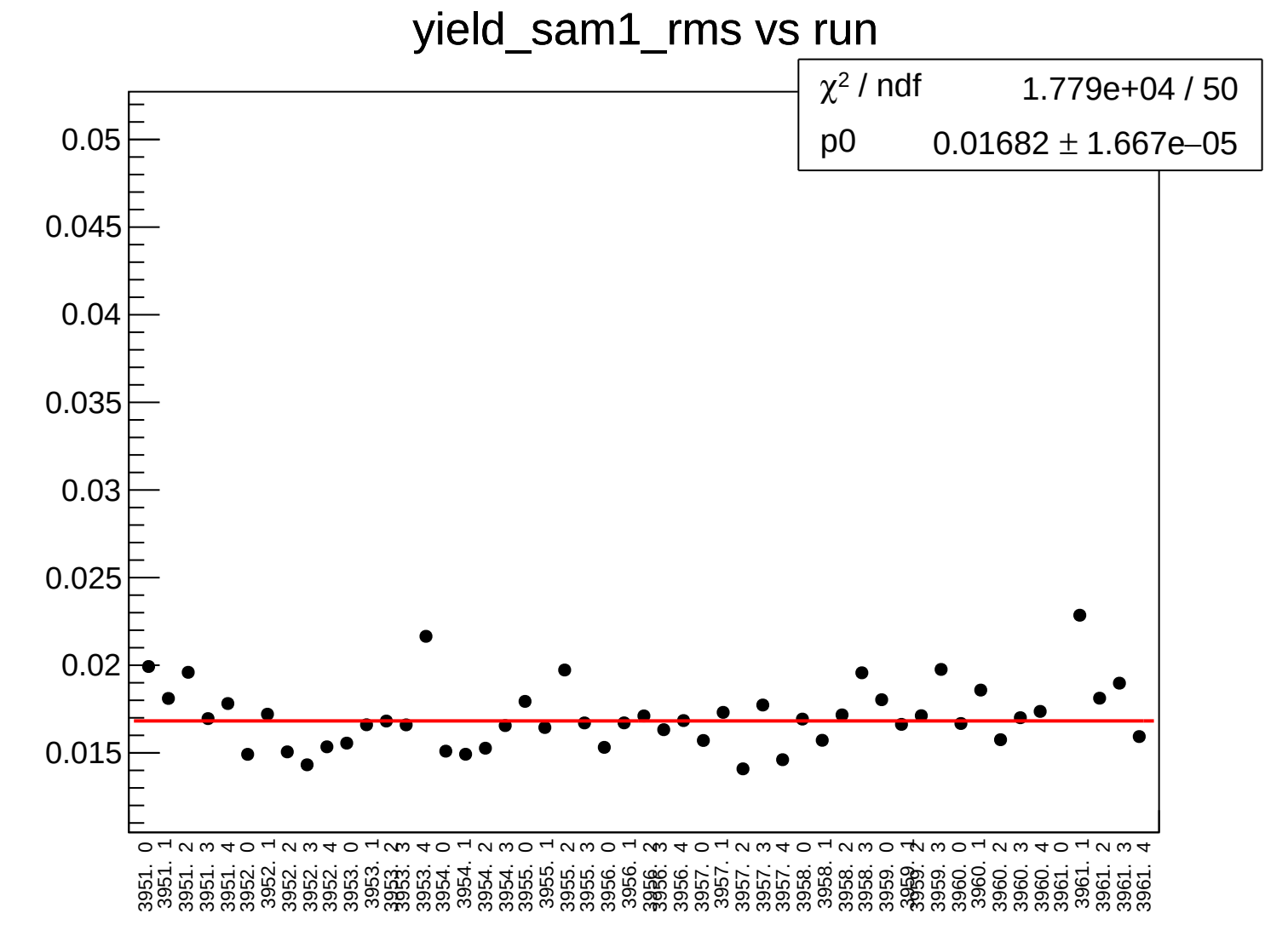

asym_sam8_mean vs run
χ² / ndf 35.33 / 50
p0 −2936 ± 3121
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 26.66
Std Dev 27.23
2
1.5
1
0.5
0
−0.5
−1
−1.5

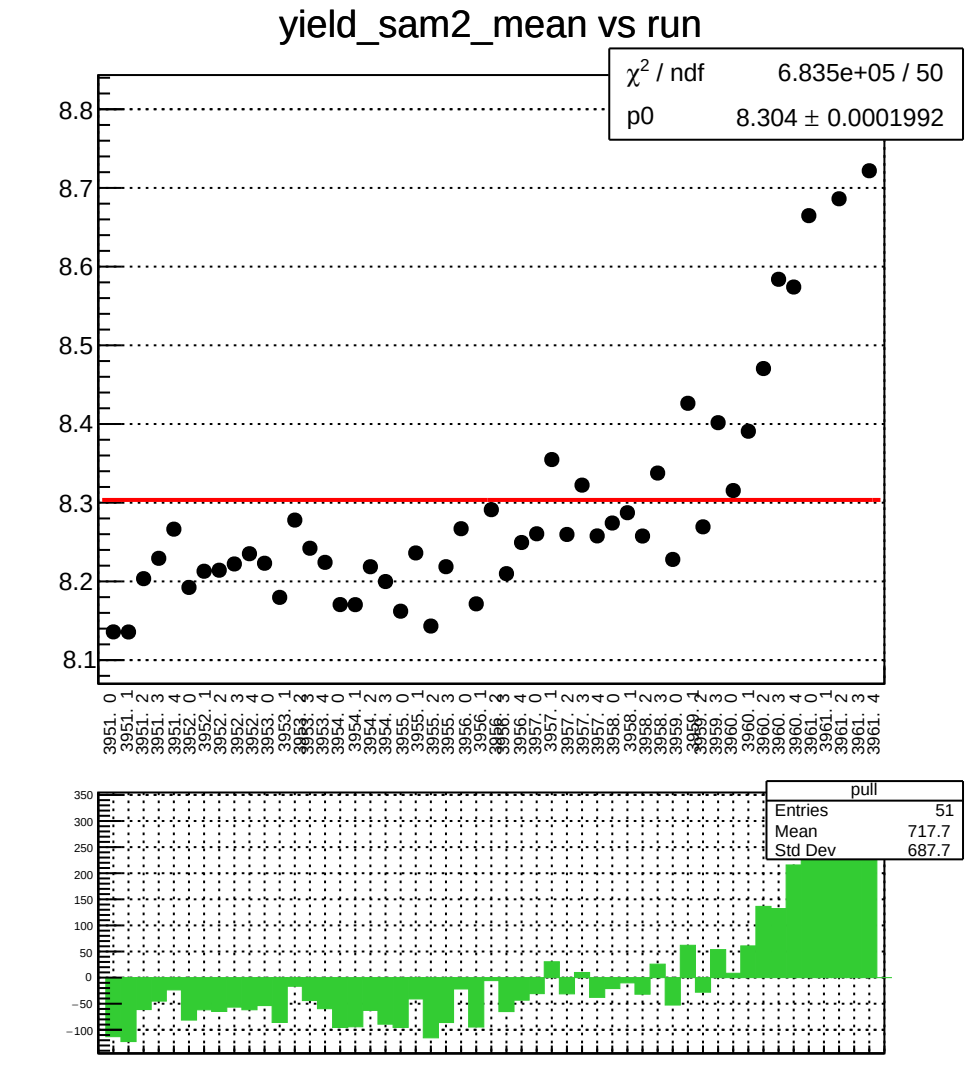

pull1D
Entries 51
Mean 0.02842
Std Dev 0.8319
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

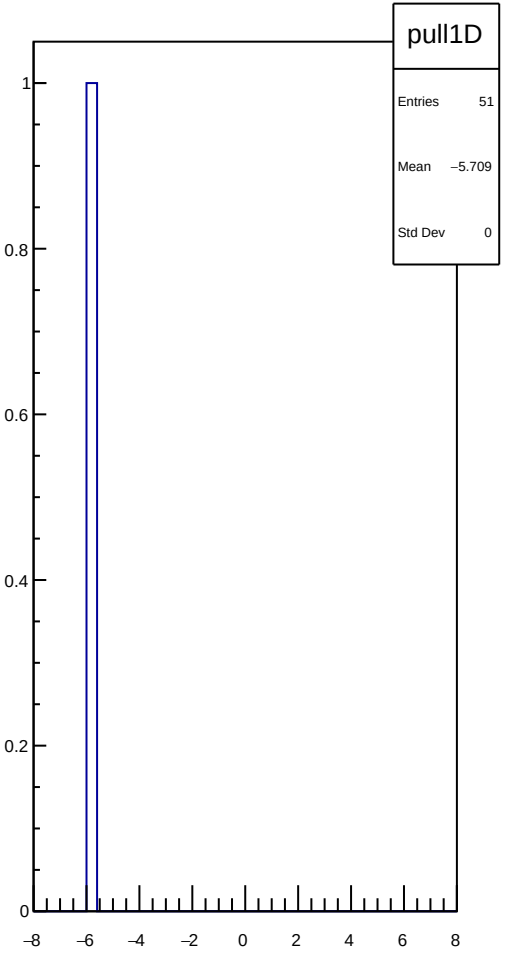

asym_sam8_rms vs run
χ² / ndf 897.8 / 50
p0 2245 ± 2.207
2450
2400
2350
2300
2250
2200
2150
2100
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

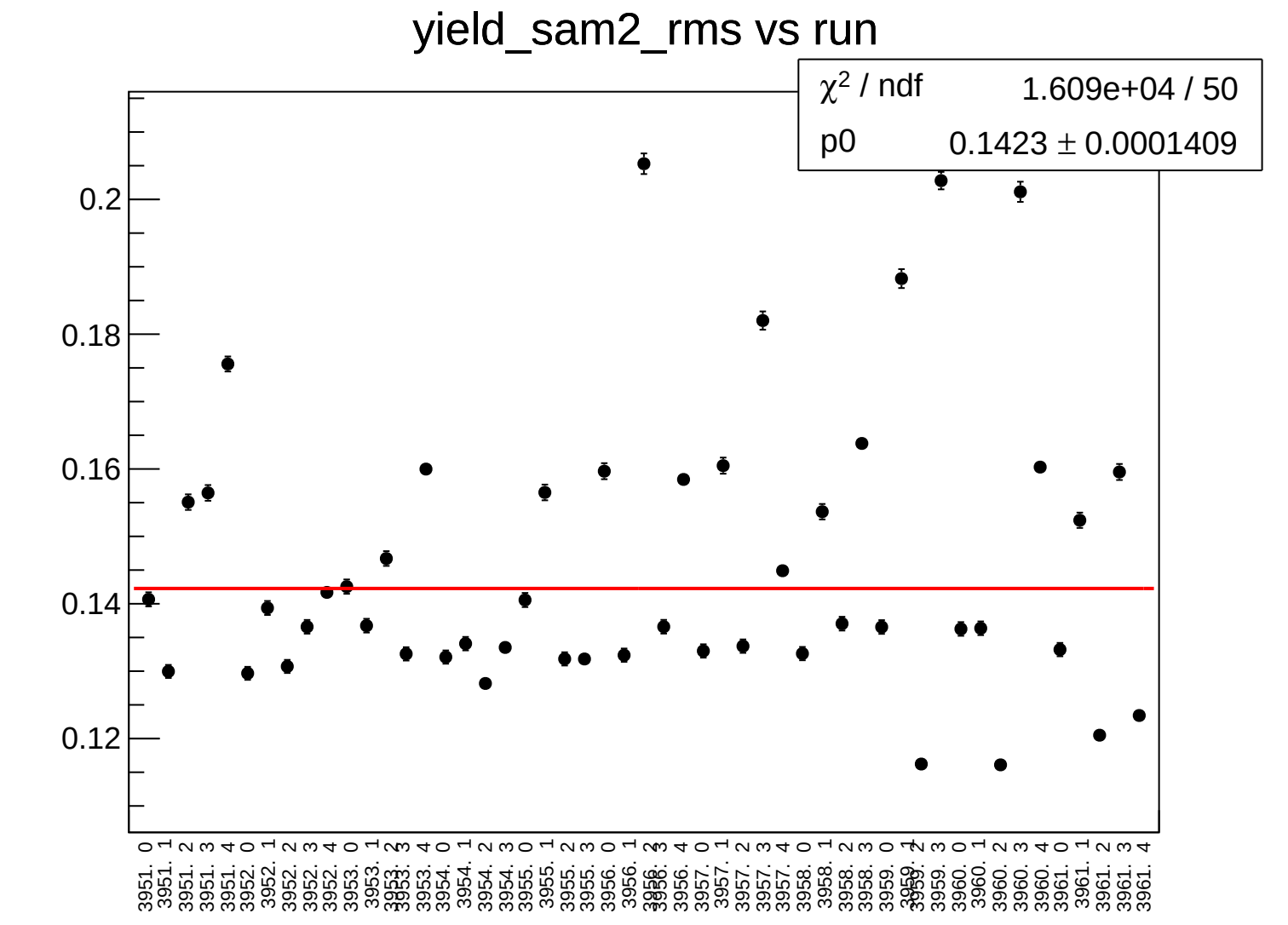

yield_sam1_mean vs run
χ^2 / ndf 5.019e+06 / 50
p0 5.217 ± 2.358e−05
5.4
5.35
5.3
5.25
5.2
5.15
pull
Entries 51
Mean 298.5
Std Dev 267.3
1200
1000
800
600
400
200
0
−200
−400

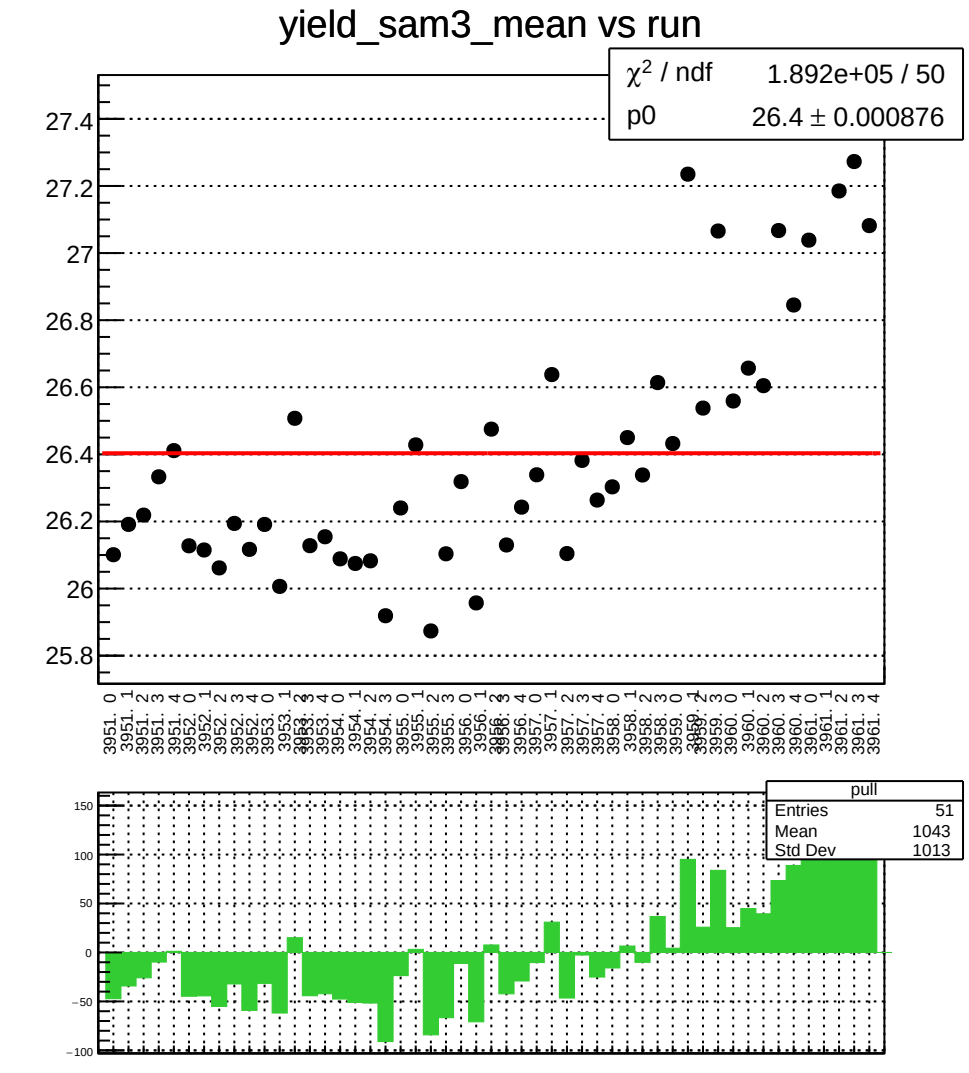

pull1D
Entries 51
Mean −1.26
Std Dev 2.926
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

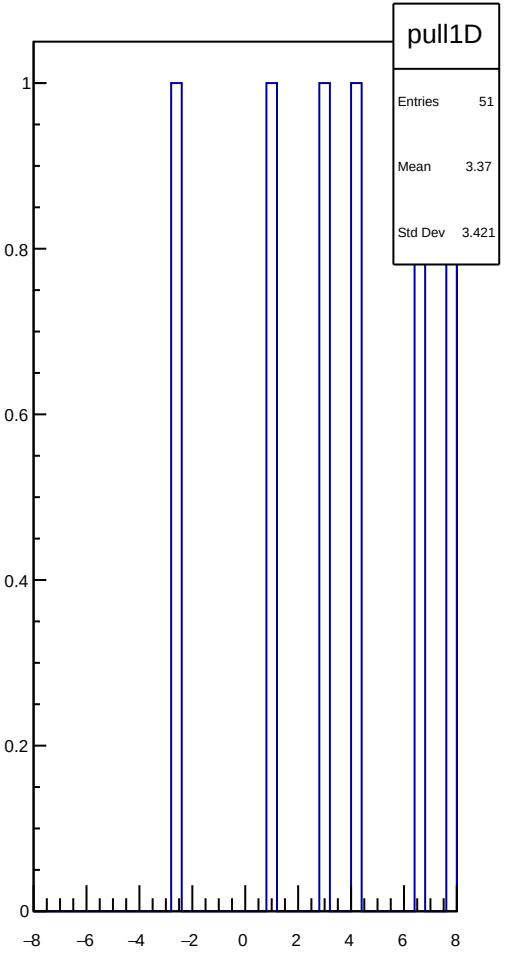

yield_sam1_rms vs run
χ² / ndf 1.779e+04 / 50
p0 0.01682 ± 1.667e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

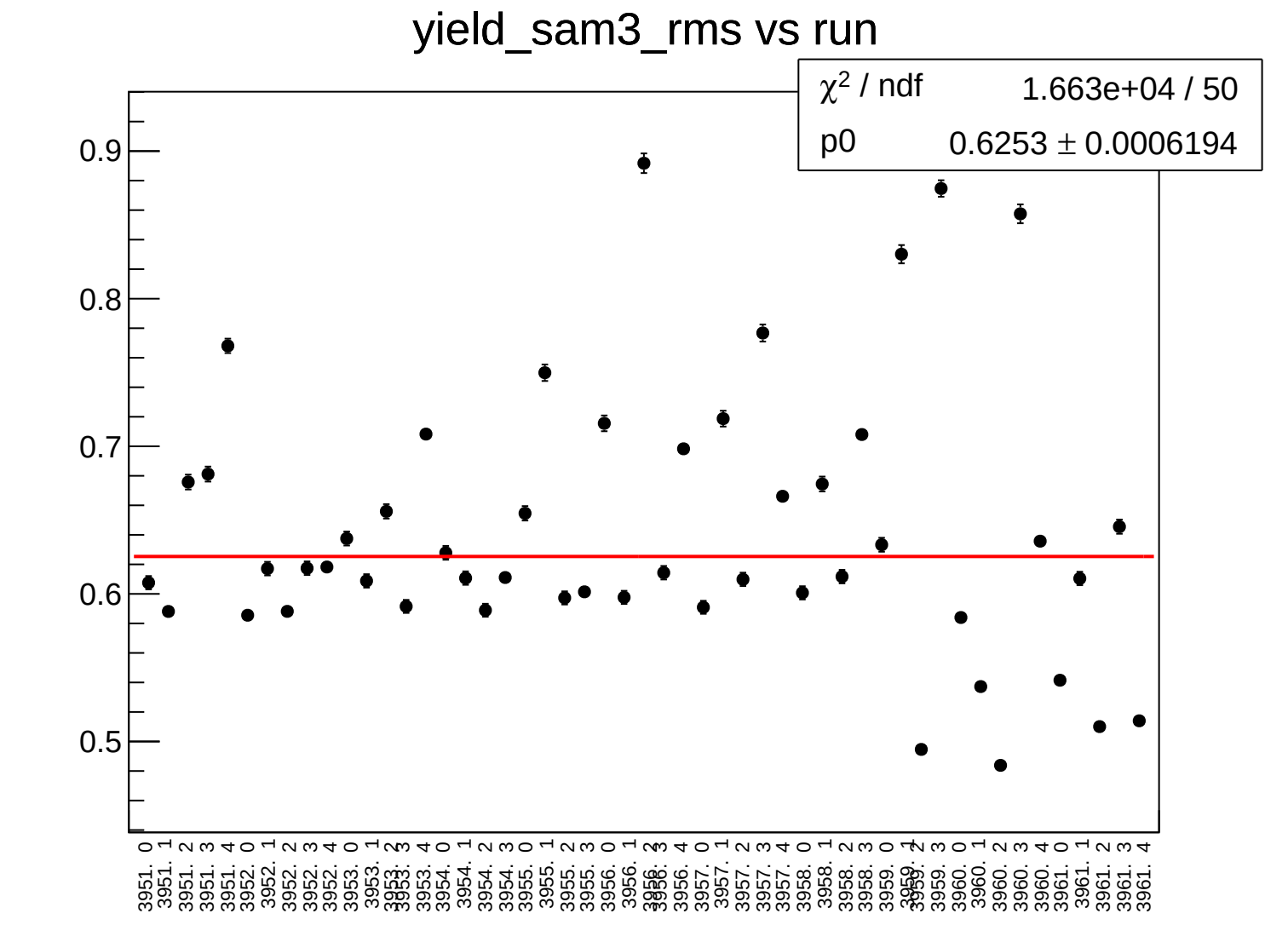

yield_sam2_mean vs run
χ² / ndf 6.835e+05 / 50
p0 8.304 ± 0.0001992
pull
Entries 51
Mean 717.7
Std Dev 687.7

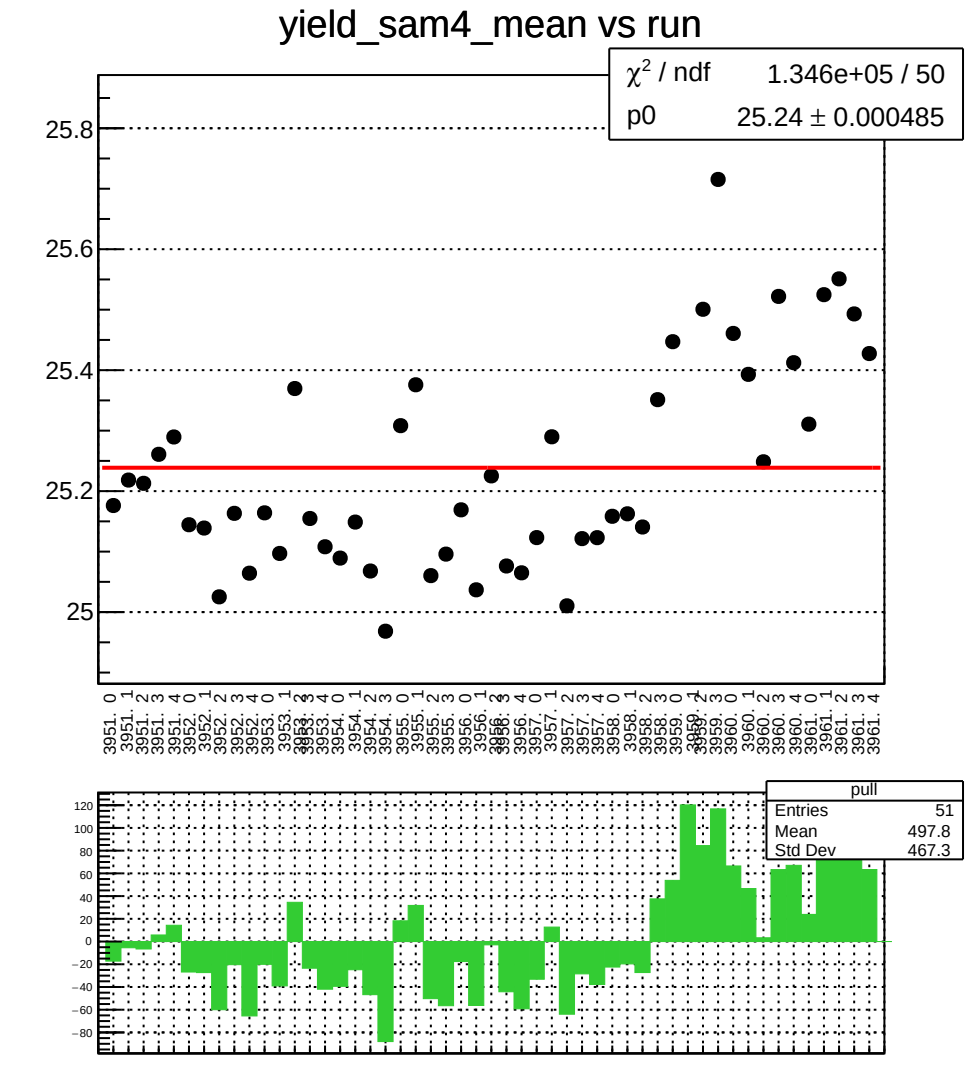

pull1D
Entries 51
Mean −5.709
Std Dev 0

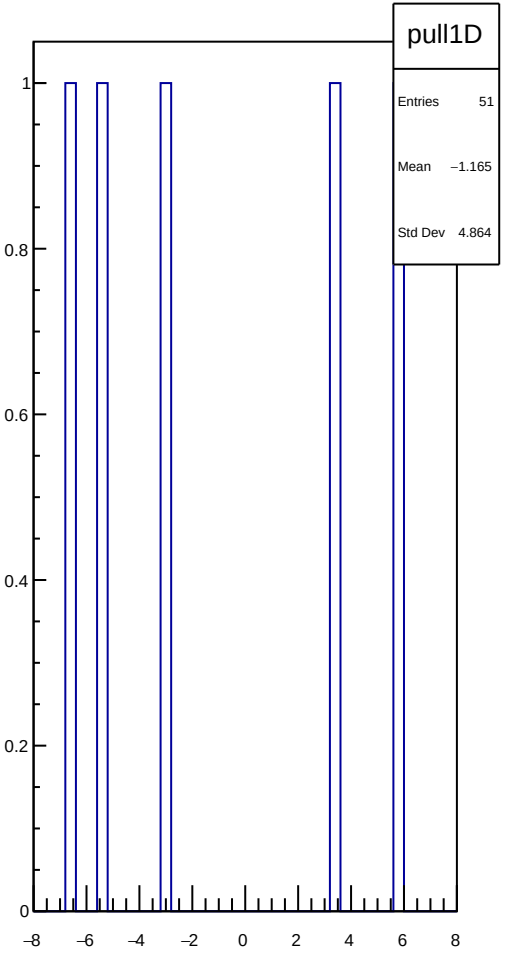

yield_sam2_rms vs run
χ² / ndf 1.609e+04 / 50
p0 0.1423 ± 0.0001409
0.2
0.18
0.16
0.14
0.12
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

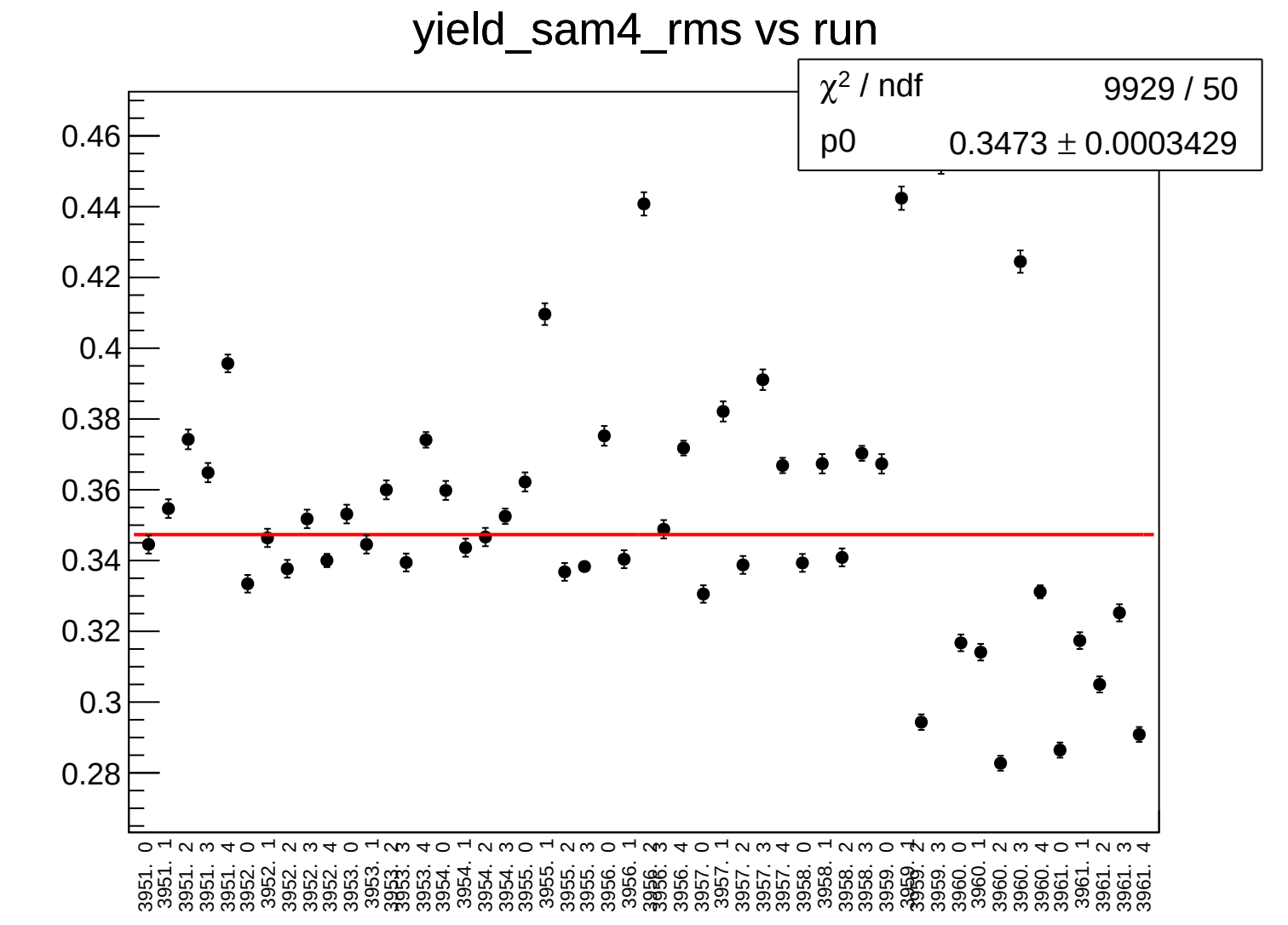

yield_sam3_mean vs run
χ² / ndf 1.892e+05 / 50
p0 26.4 ± 0.000876
pull
Entries 51
Mean 1043
Std Dev 1013

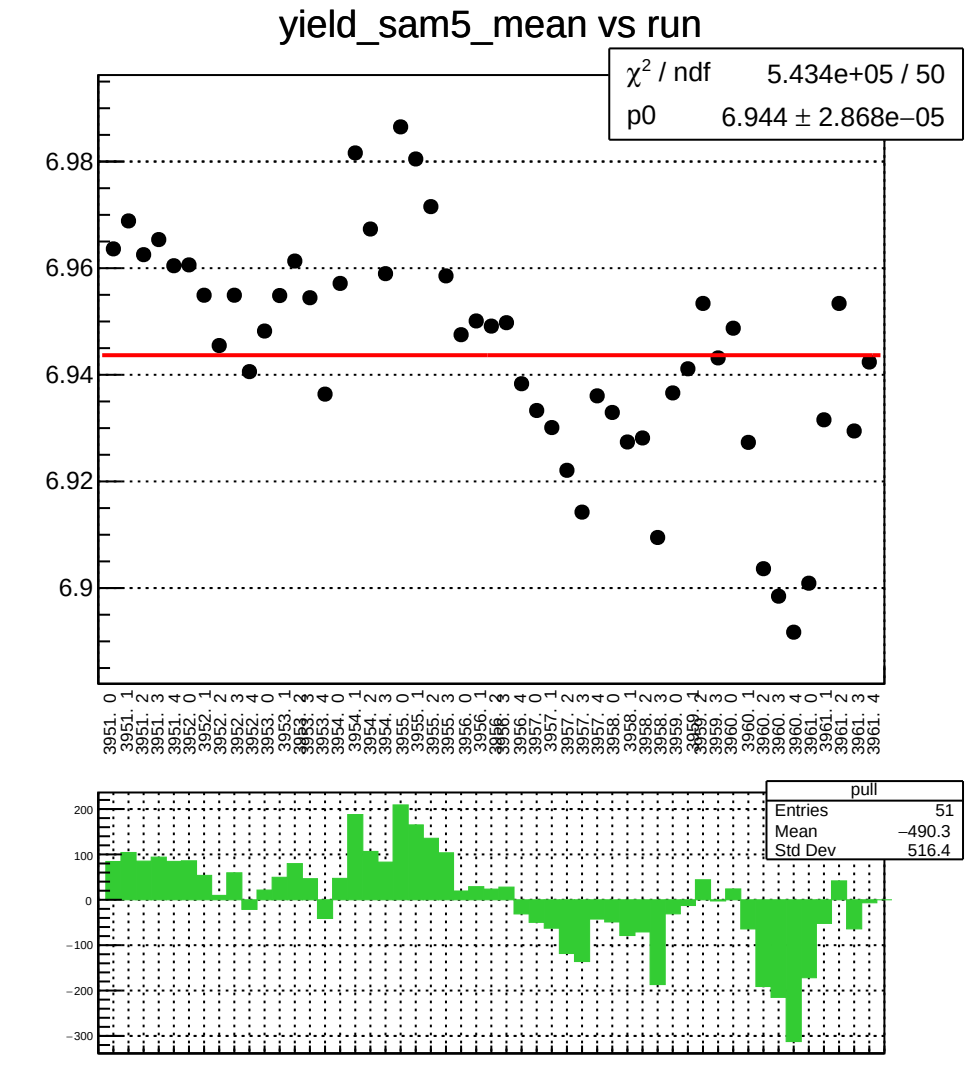

pull1D
Entries 51
Mean 3.37
Std Dev 3.421

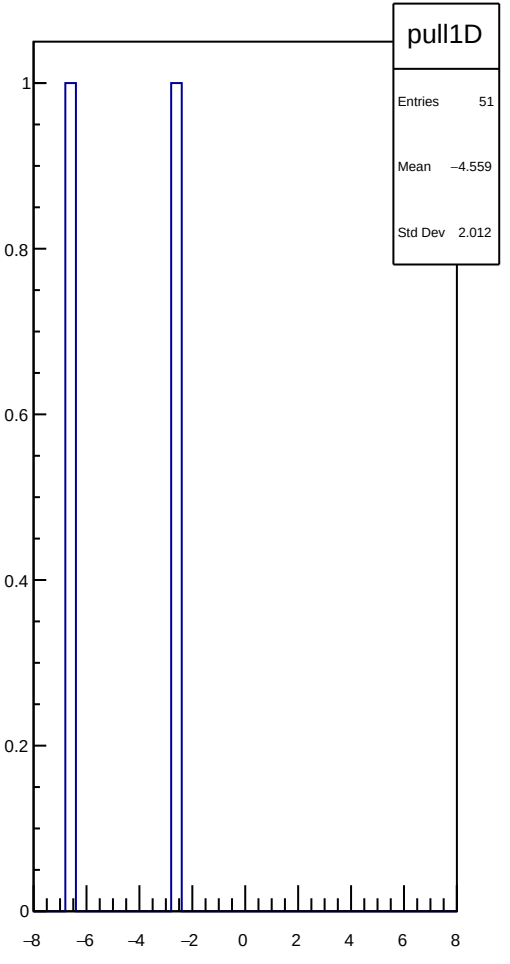

yield_sam3_rms vs run
χ² / ndf 1.663e+04 / 50
p0 0.6253 ± 0.0006194
0.9
0.8
0.7
0.6
0.5
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

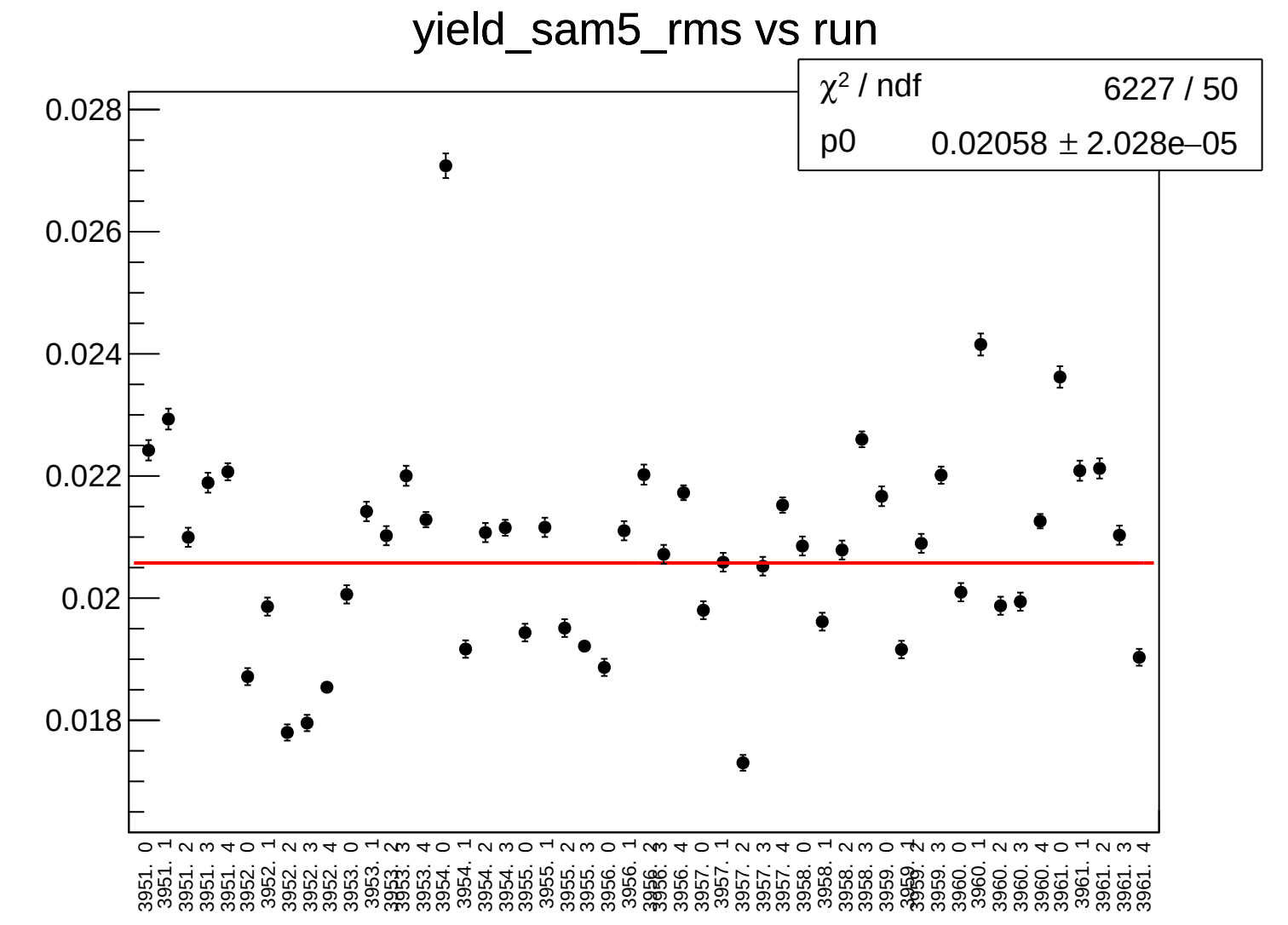

yield_sam4_mean vs run
χ² / ndf 1.346e+05 / 50
p0 25.24 ± 0.000485
25.8
25.6
25.4
25.2
25
pull
Entries 51
Mean 497.8
Std Dev 467.3
120
100
80
60
40
20
0
−20
−40
−60
−80

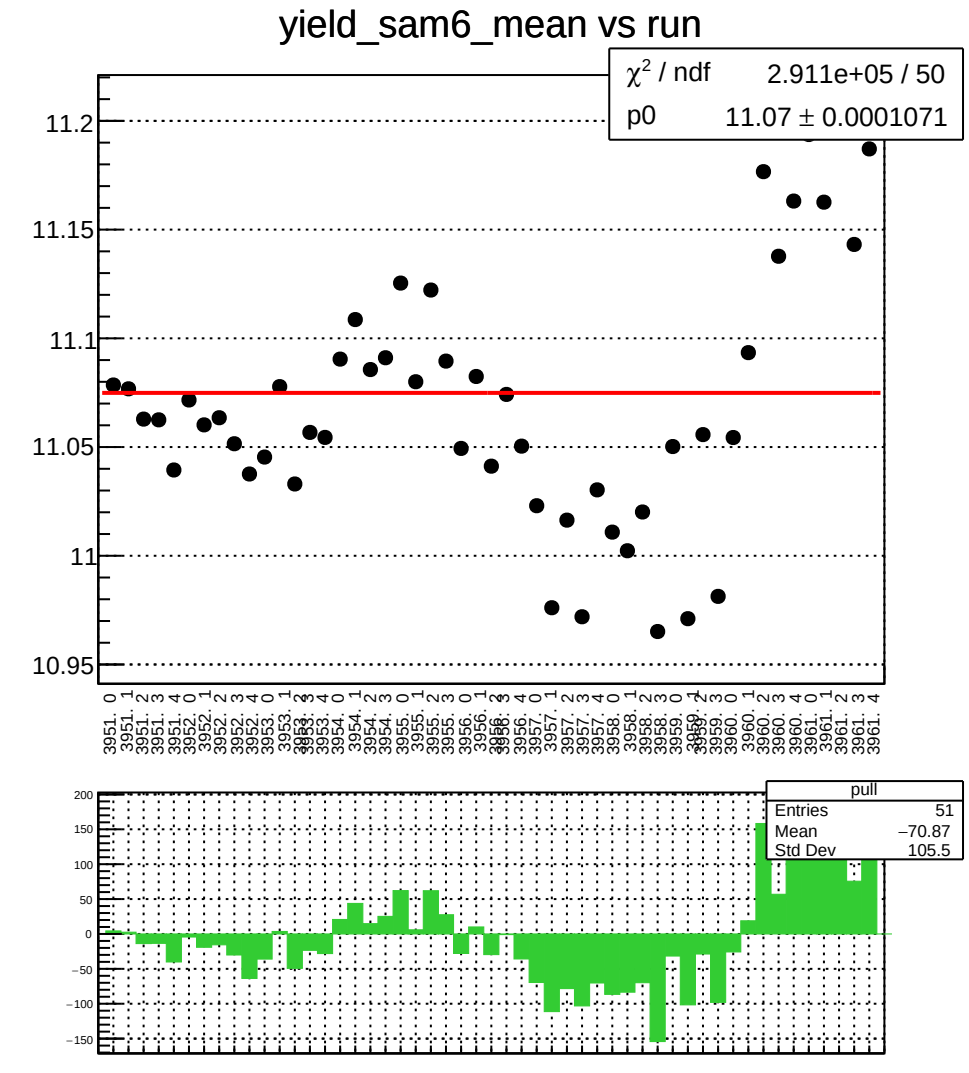

pull1D
Entries 51
Mean −1.165
Std Dev 4.864
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

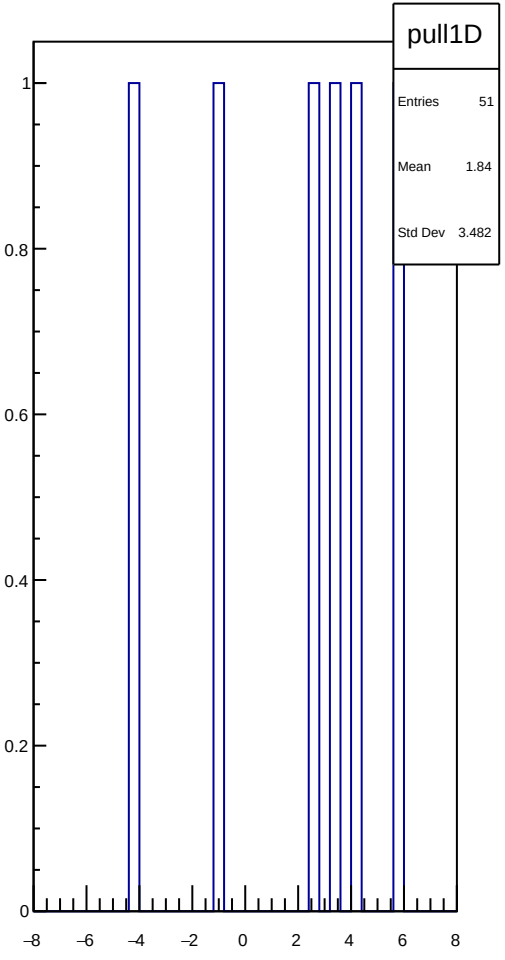

yield_sam4_rms vs run
χ² / ndf 9929 / 50
p0 0.3473 ± 0.0003429
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
0.3
0.28
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

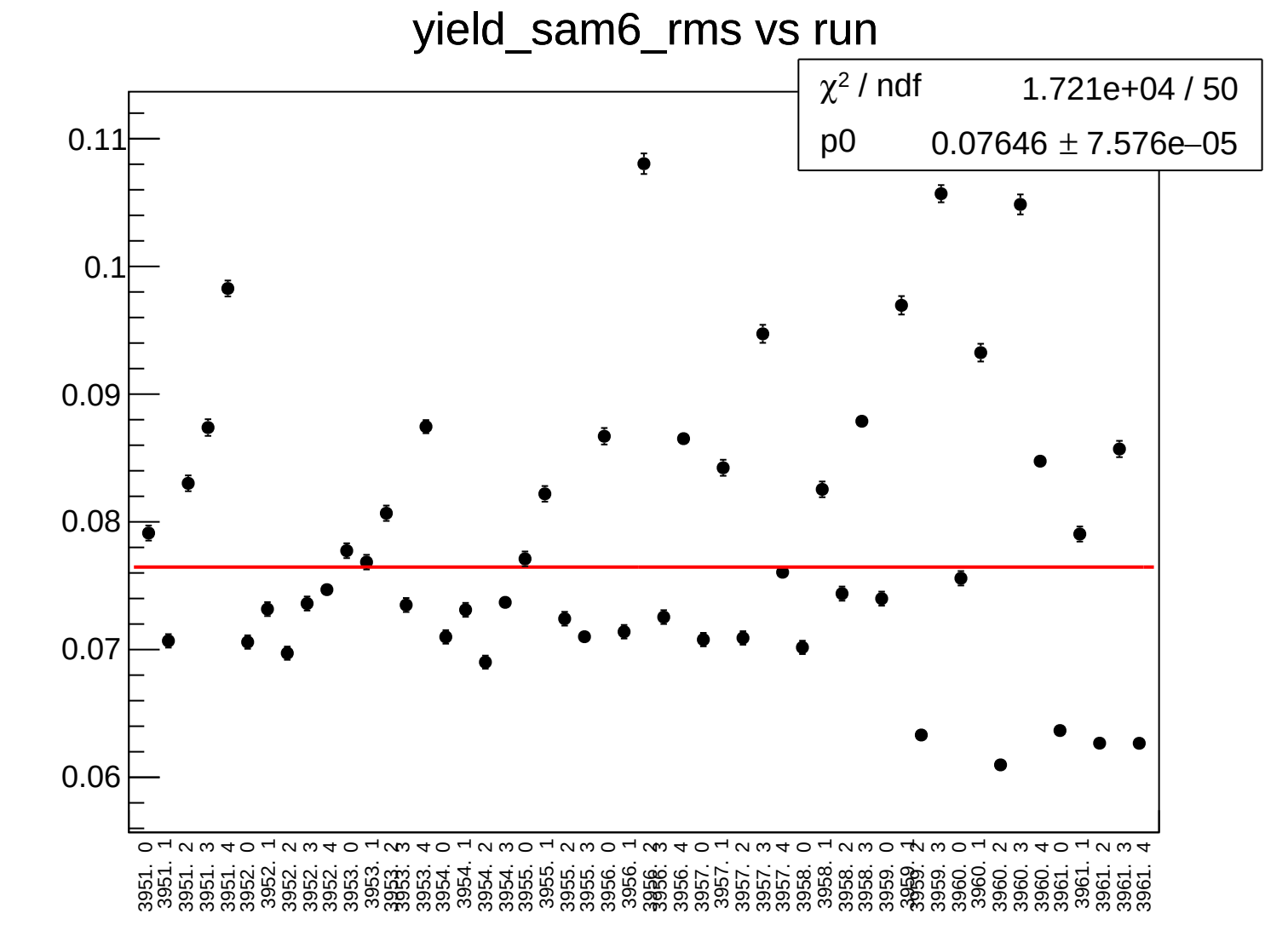

yield_sam5_mean vs run
χ² / ndf 5.434e+05 / 50
p0 6.944 ± 2.868e−05
6.98
6.96
6.94
6.92
6.9
pull
Entries 51
Mean −490.3
Std Dev 516.4
200
100
0
−100
−200
−300

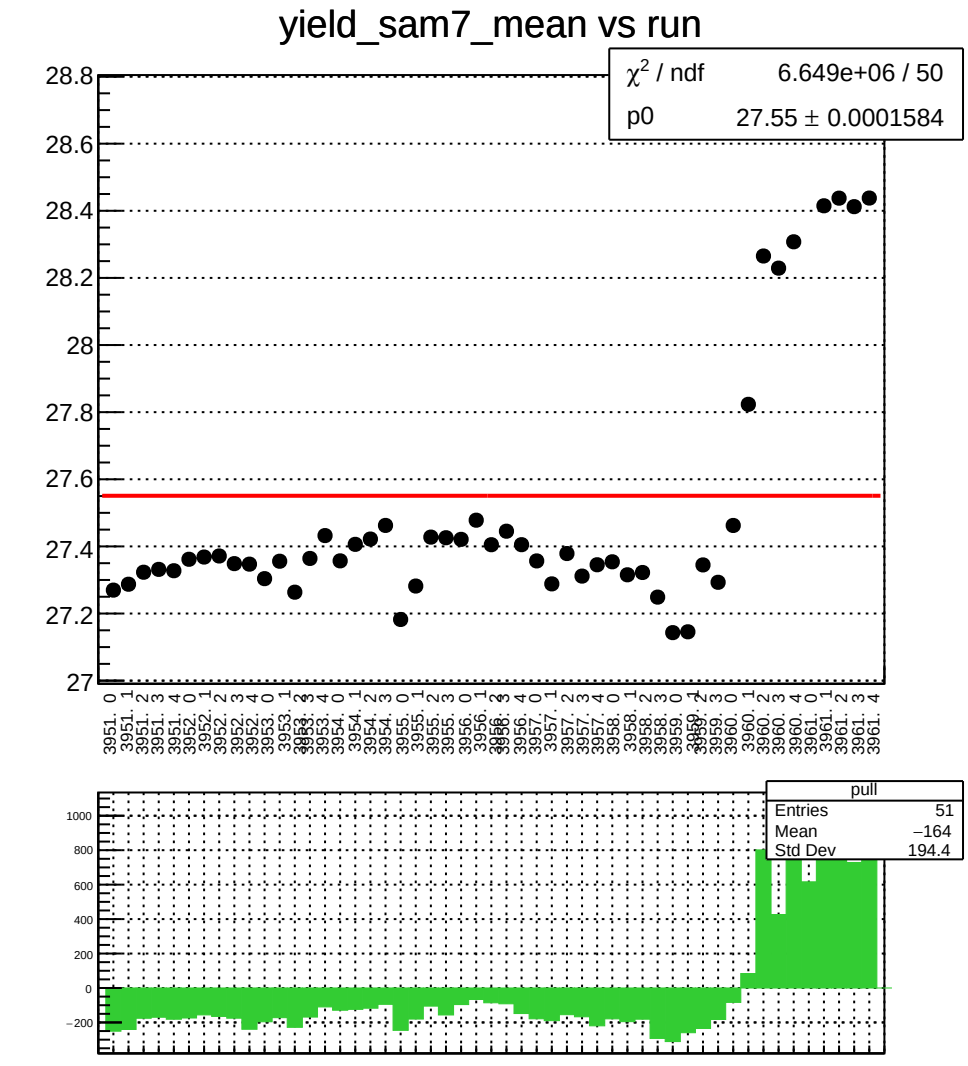

pull1D
Entries 51
Mean −4.559
Std Dev 2.012
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

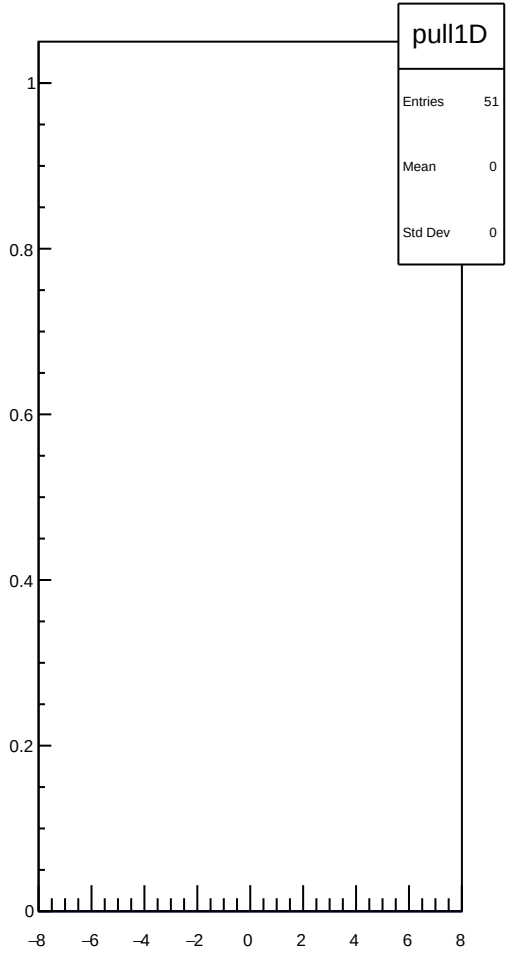

yield_sam5_rms vs run
χ² / ndf 6227 / 50
p0 0.02058 ± 2.028e–05
0.028
0.026
0.024
0.022
0.02
0.018
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

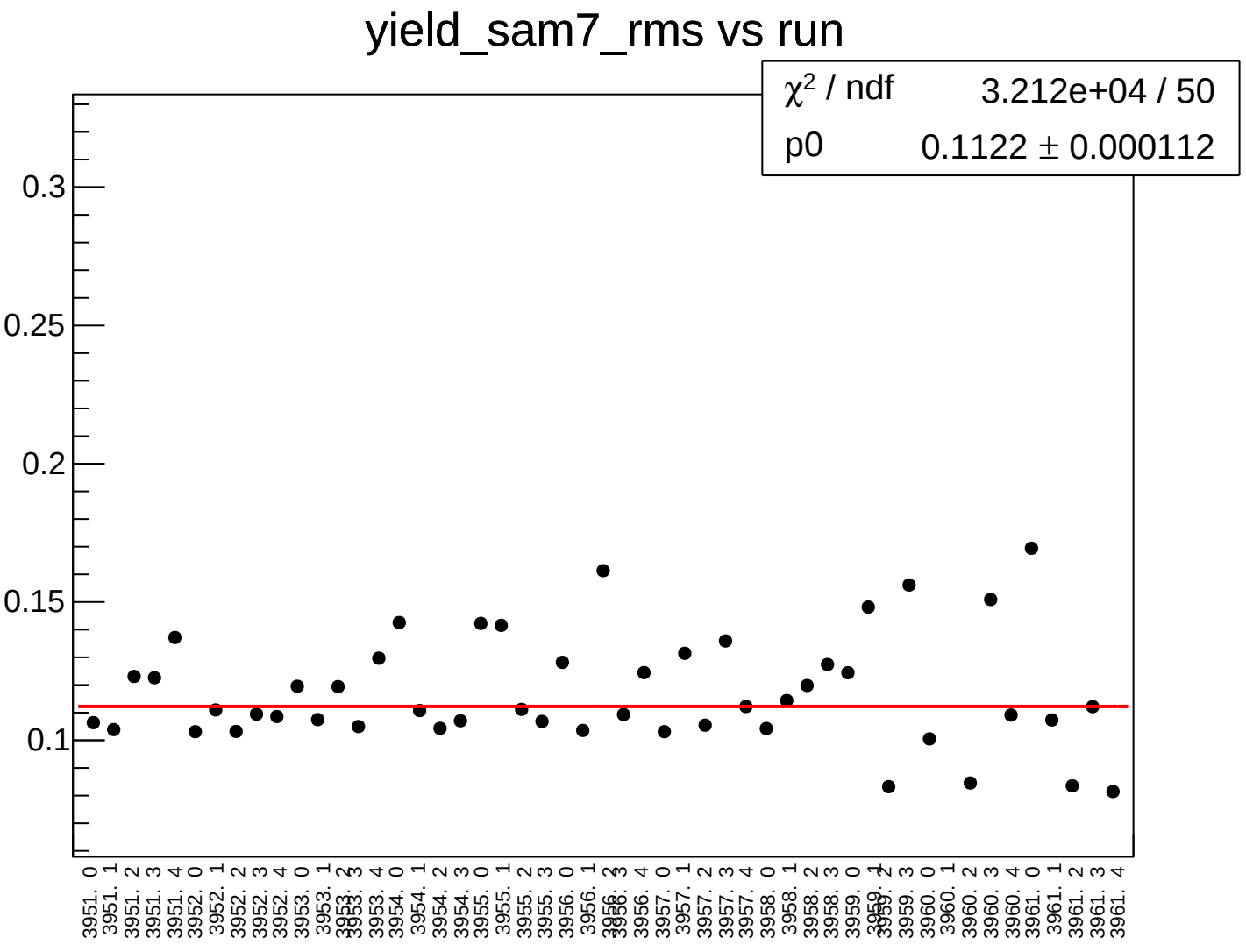

yield_sam6_mean vs run
χ² / ndf 2.911e+05 / 50
p0 11.07 ± 0.0001071
11.2
11.15
11.1
11.05
11
10.95
pull
Entries 51
Mean −70.87
Std Dev 105.5
200
150
100
50
0
−50
−100
−150

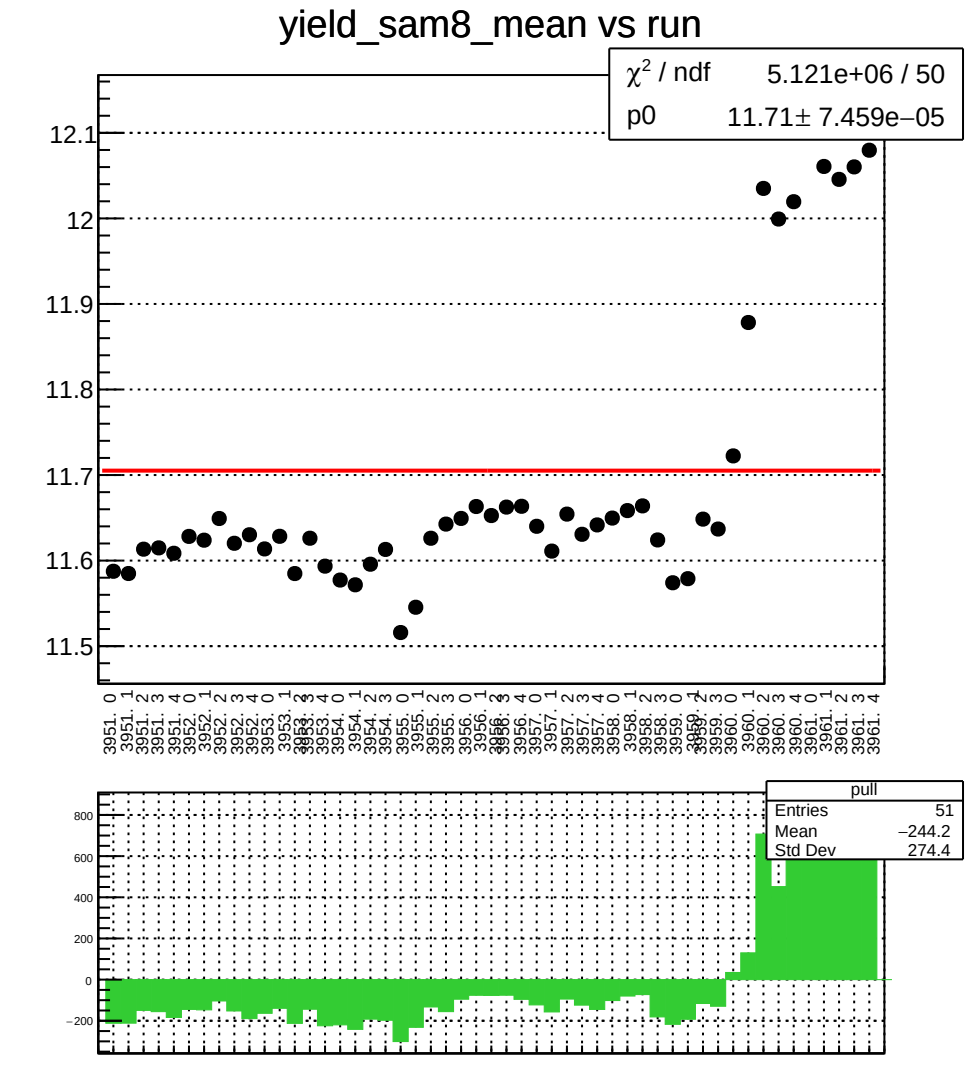

pull1D
Entries 51
Mean 1.84
Std Dev 3.482
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

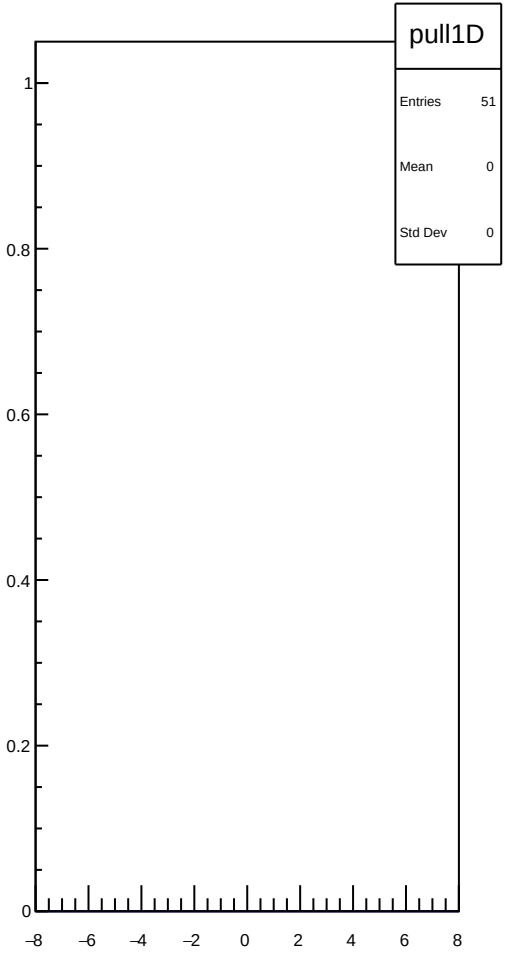

yield_sam6_rms vs run
χ² / ndf 1.721e+04 / 50
p0 0.07646 ± 7.576e–05
0.11
0.1
0.09
0.08
0.07
0.06
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

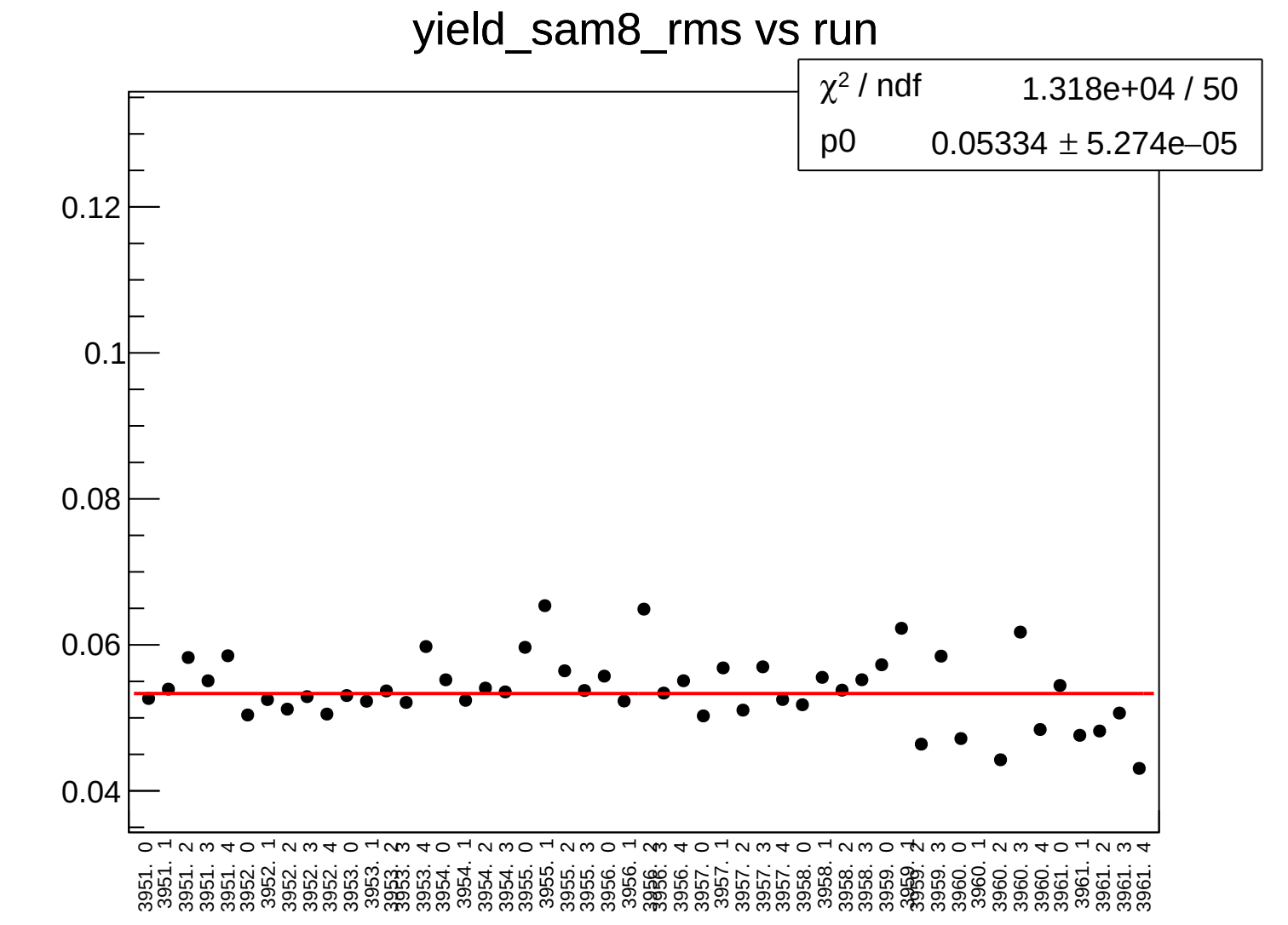

yield_sam7_mean vs run
χ² / ndf 6.649e+06 / 50
p0 27.55 ± 0.0001584
28.8
28.6
28.4
28.2
28
27.8
27.6
27.4
27.2
27
pull
Entries 51
Mean −164
Std Dev 194.4
1000
800
600
400
200
0
−200

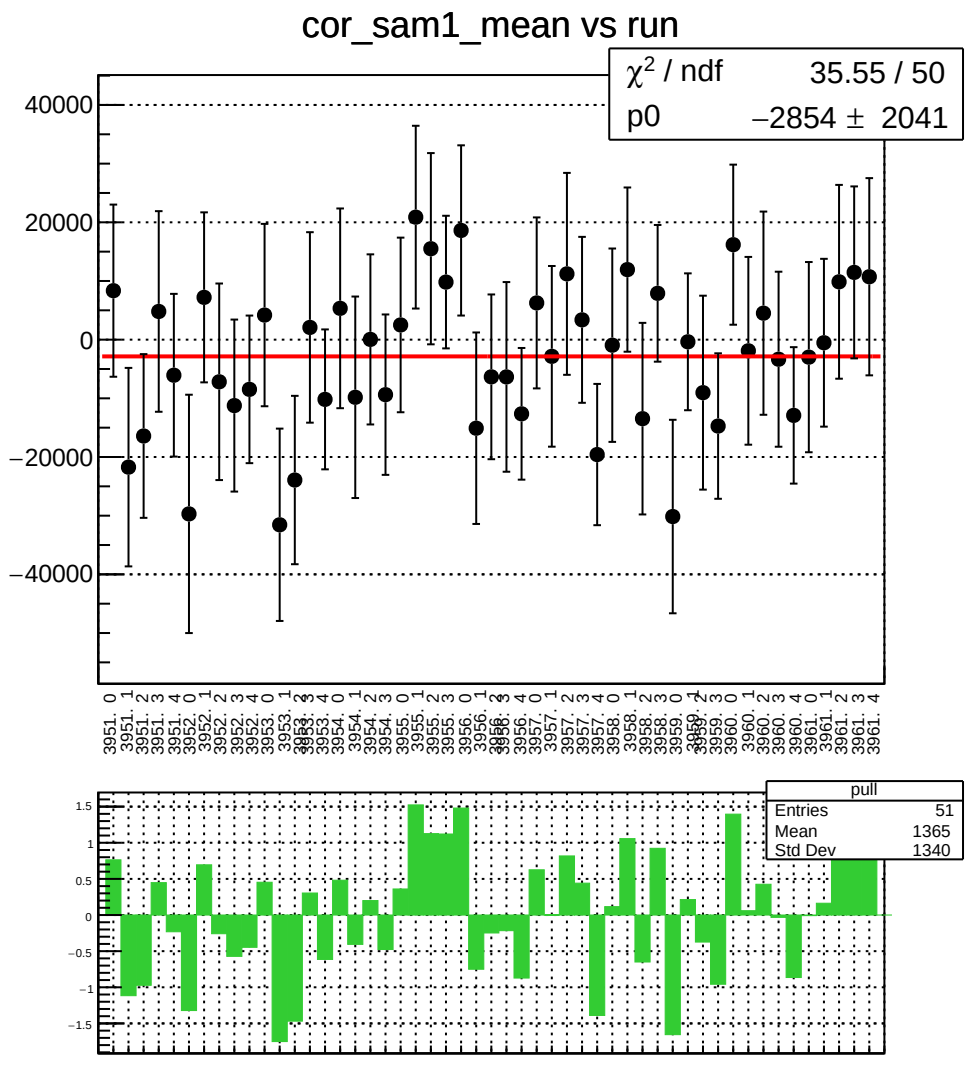

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

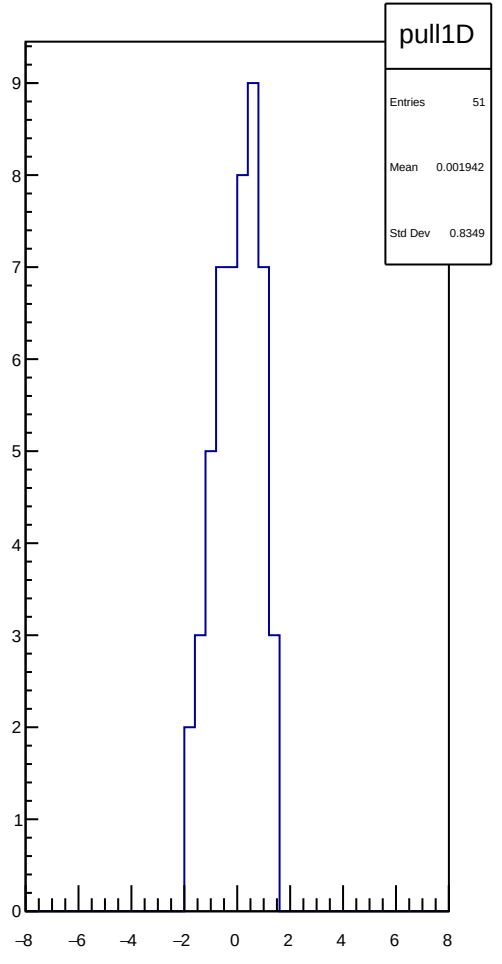

yield_sam7_rms vs run
χ² / ndf 3.212e+04 / 50
p0 0.1122 ± 0.000112
0.3
0.25
0.2
0.15
0.1
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

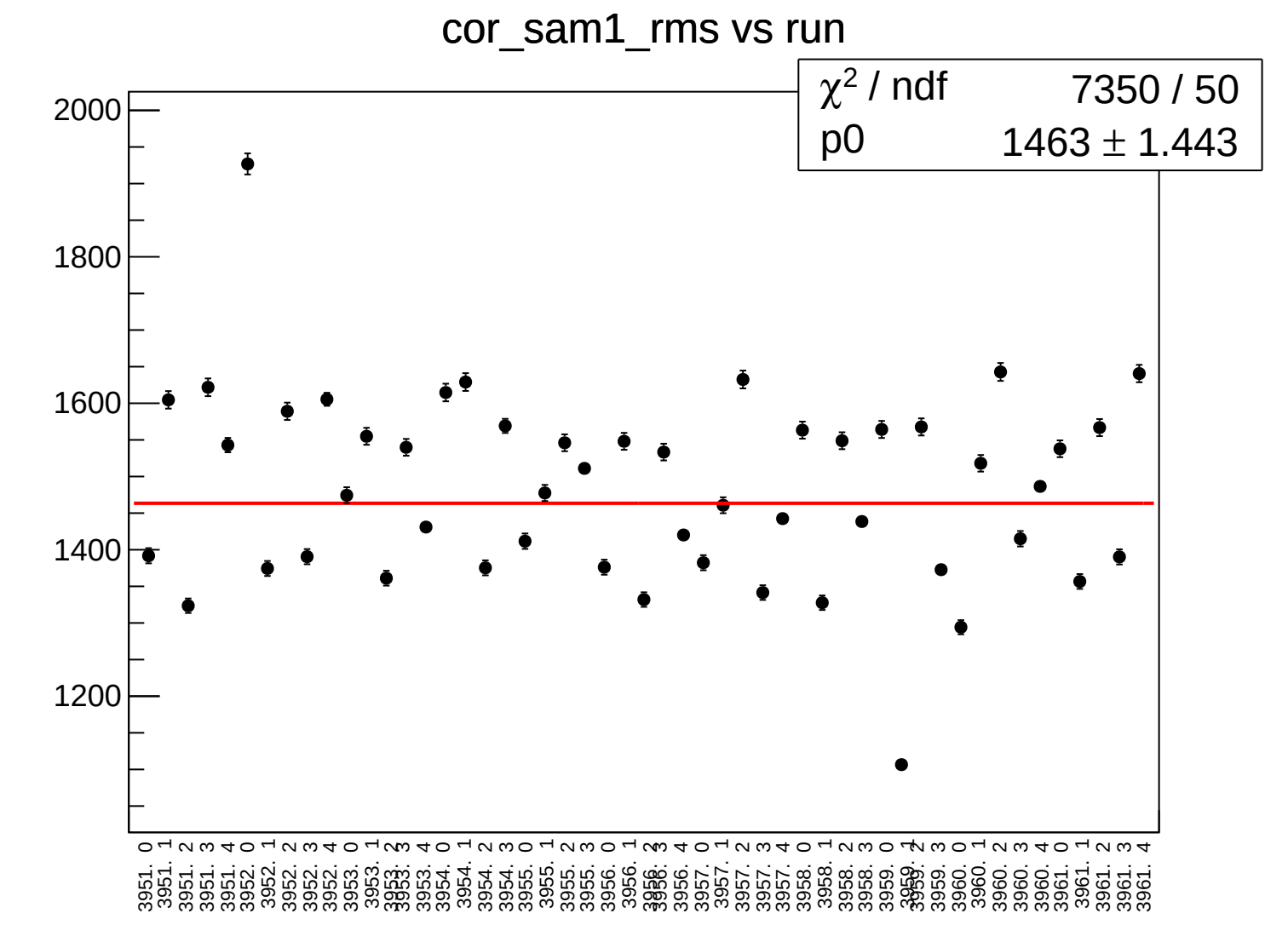

yield_sam8_mean vs run
χ² / ndf 5.121e+06 / 50
p0 11.71± 7.459e−05
12.1
12
11.9
11.8
11.7
11.6
11.5
pull
Entries 51
Mean −244.2
Std Dev 274.4
800
600
400
200
0
−200

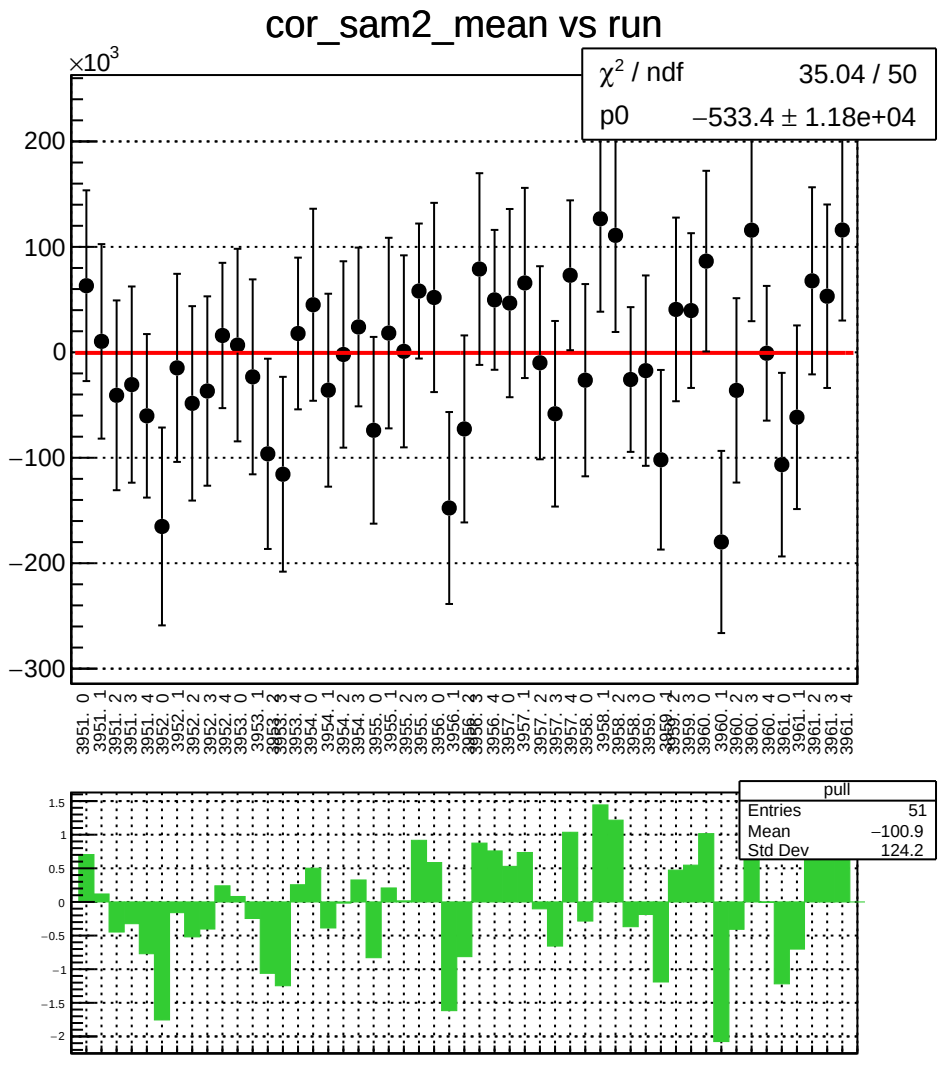

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

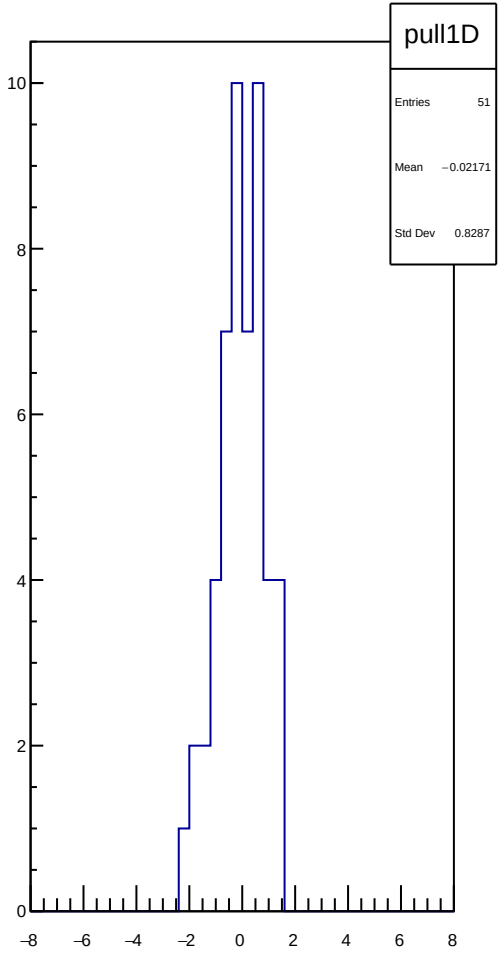

yield_sam8_rms vs run
χ² / ndf 1.318e+04 / 50
p0 0.05334 ± 5.274e−05
0.12
0.1
0.08
0.06
0.04
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

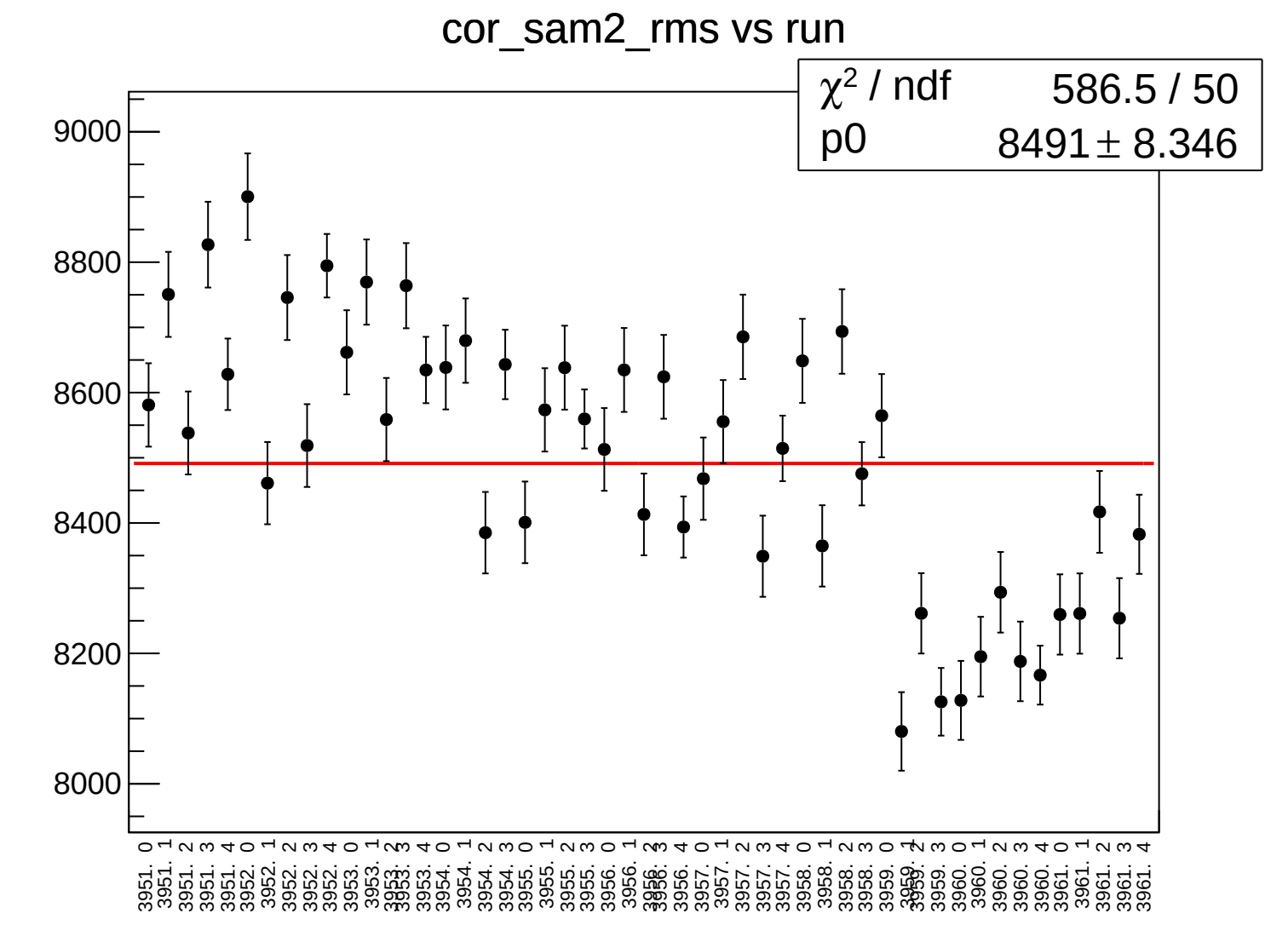

cor_sam1_mean vs run
χ² / ndf 35.55 / 50
p0 −2854 ± 2041
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 1365
Std Dev 1340
1.5
1
0.5
0
−0.5
−1
−1.5

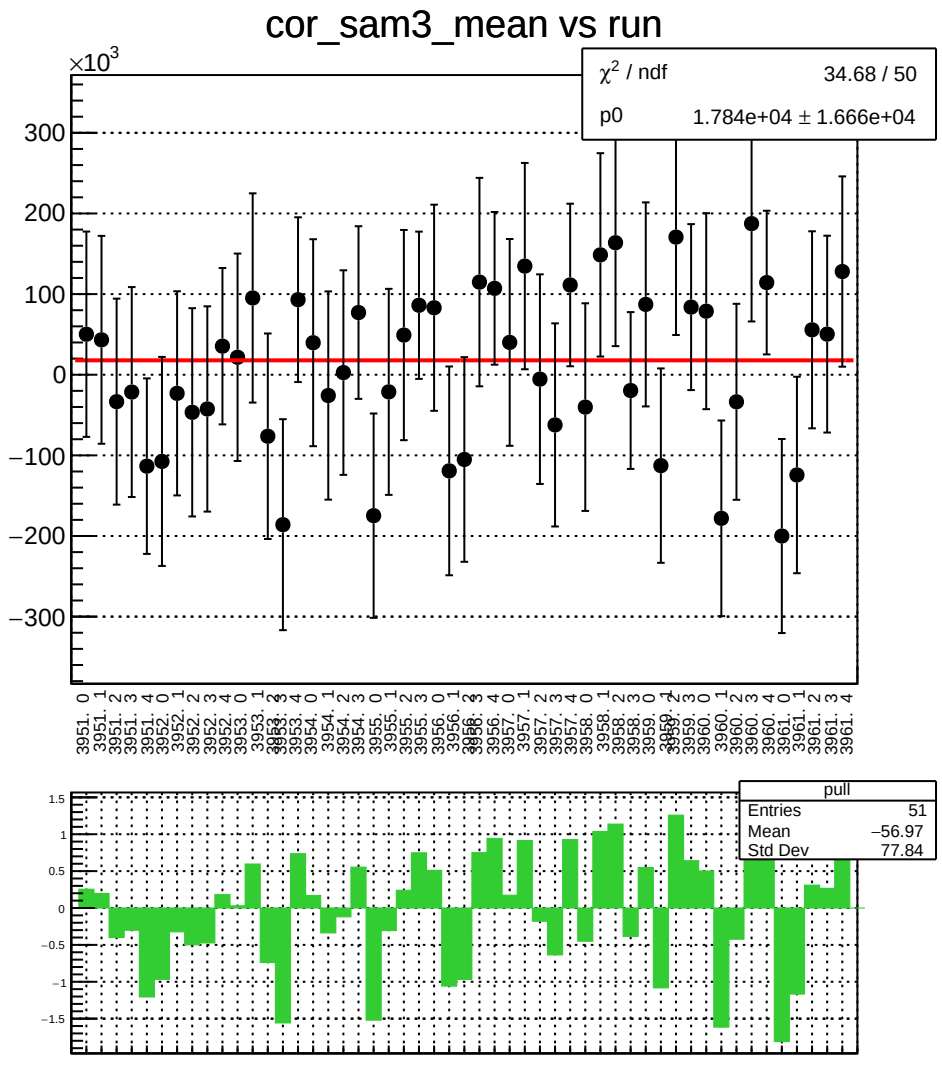

pull1D
Entries 51
Mean 0.001942
Std Dev 0.8349
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

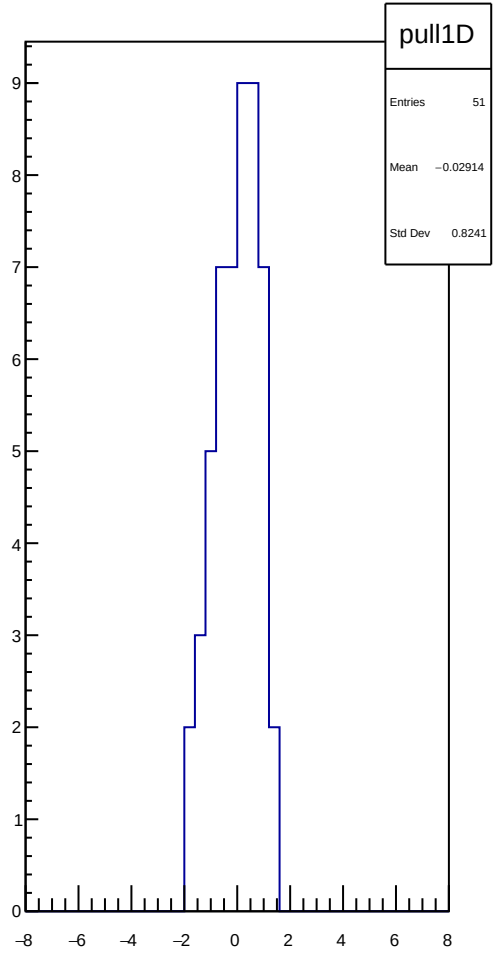

cor_sam1_rms vs run
χ² / ndf 7350 / 50
p0 1463 ± 1.443
2000
1800
1600
1400
1200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

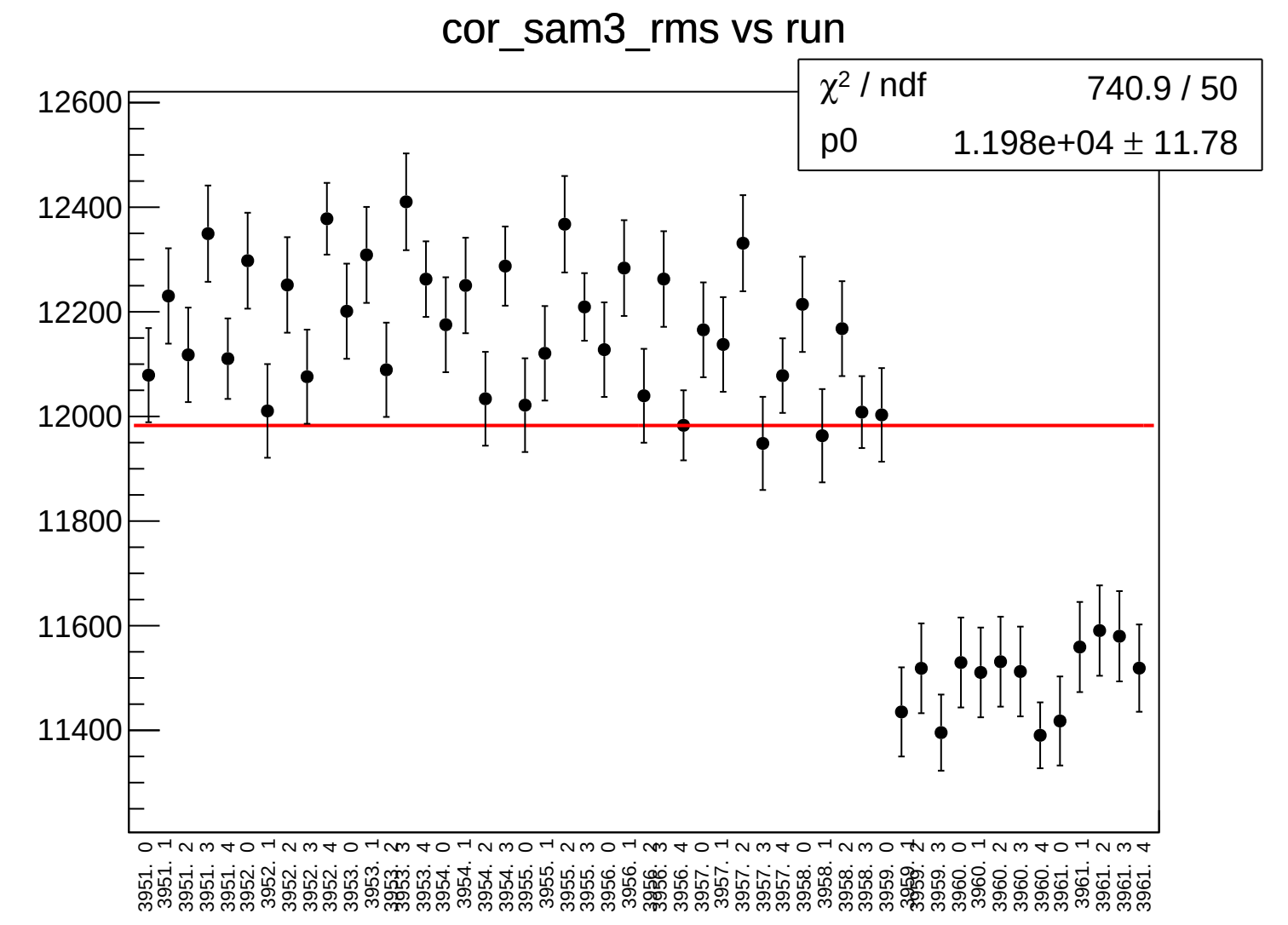

cor_sam2_mean vs run
×10^3
χ² / ndf 35.04 / 50
p0 −533.4 ± 1.18e+04
200
100
0
−100
−200
−300
pull
Entries 51
Mean −100.9
Std Dev 124.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

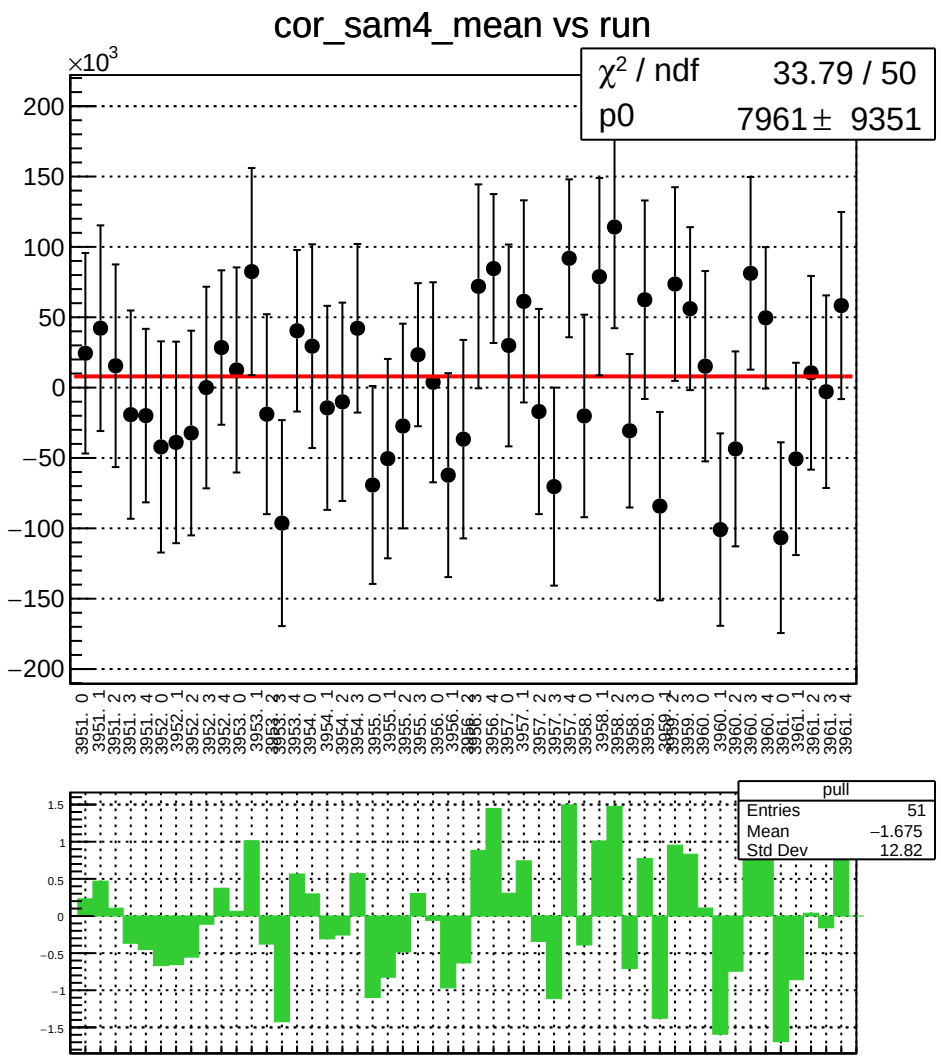

pull1D
Entries 51
Mean −0.02171
Std Dev 0.8287
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

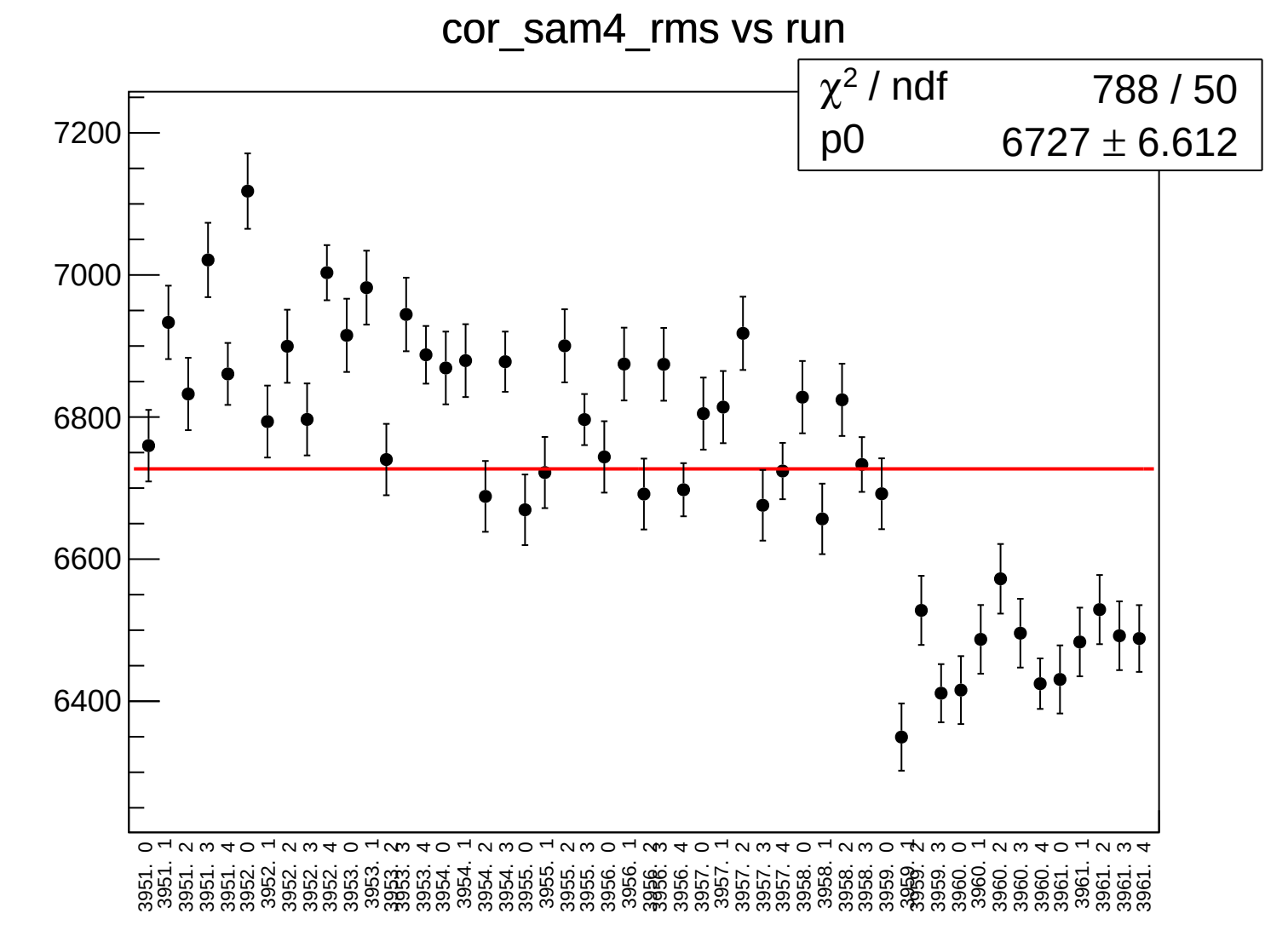

cor_sam2_rms vs run
χ² / ndf 586.5 / 50
p0 8491 ± 8.346
9000
8800
8600
8400
8200
8000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

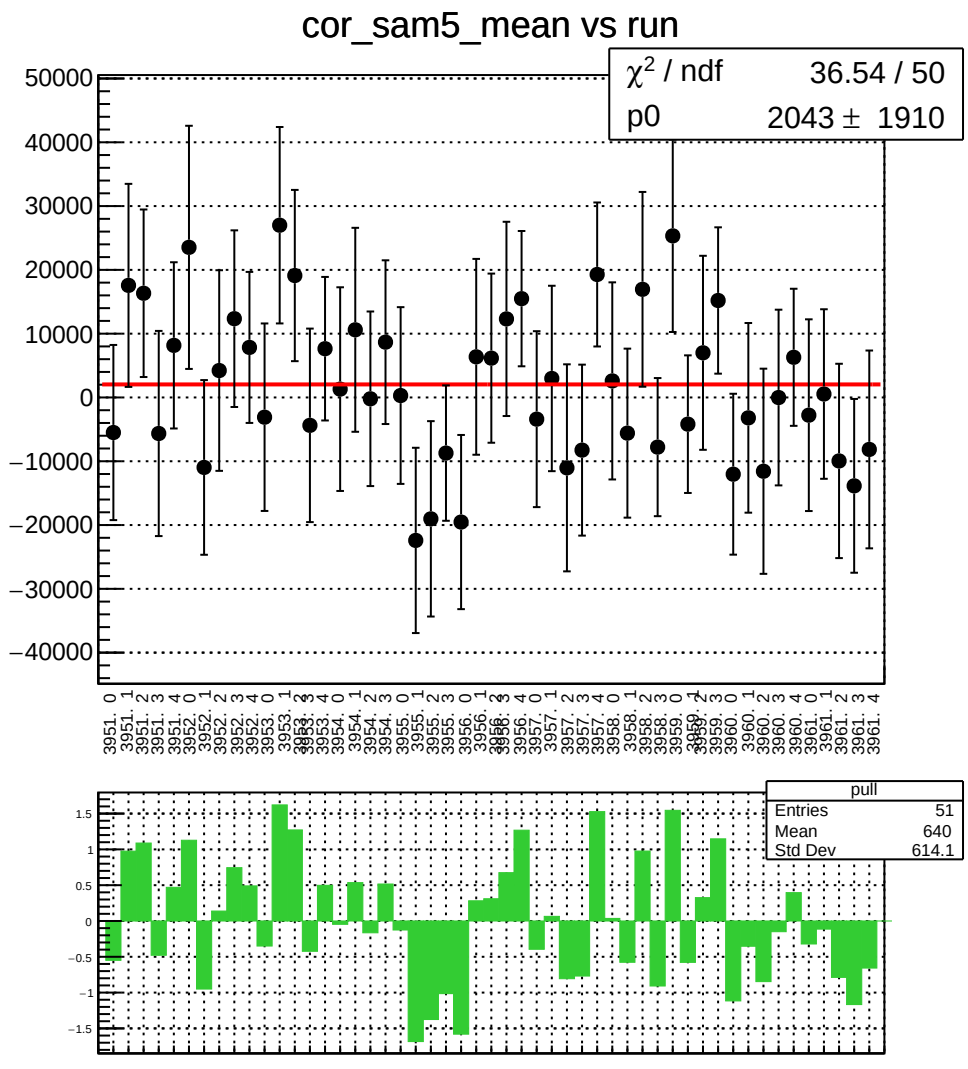

cor_sam3_mean vs run
×10^3
χ^2 / ndf 34.68 / 50
p0 1.784e+04 ± 1.666e+04
300
200
100
0
−100
−200
−300
pull
Entries 51
Mean −56.97
Std Dev 77.84
1.5
1
0.5
0
−0.5
−1
−1.5

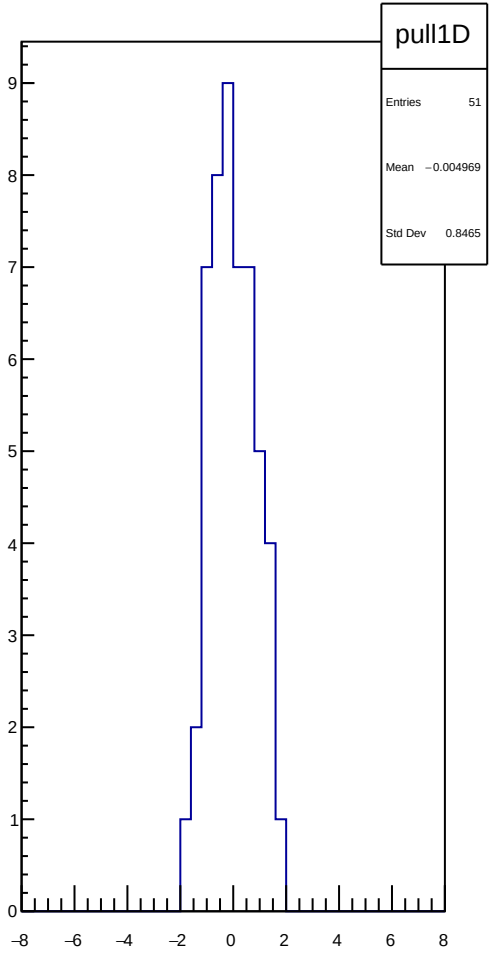

pull1D
Entries 51
Mean −0.02914
Std Dev 0.8241
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

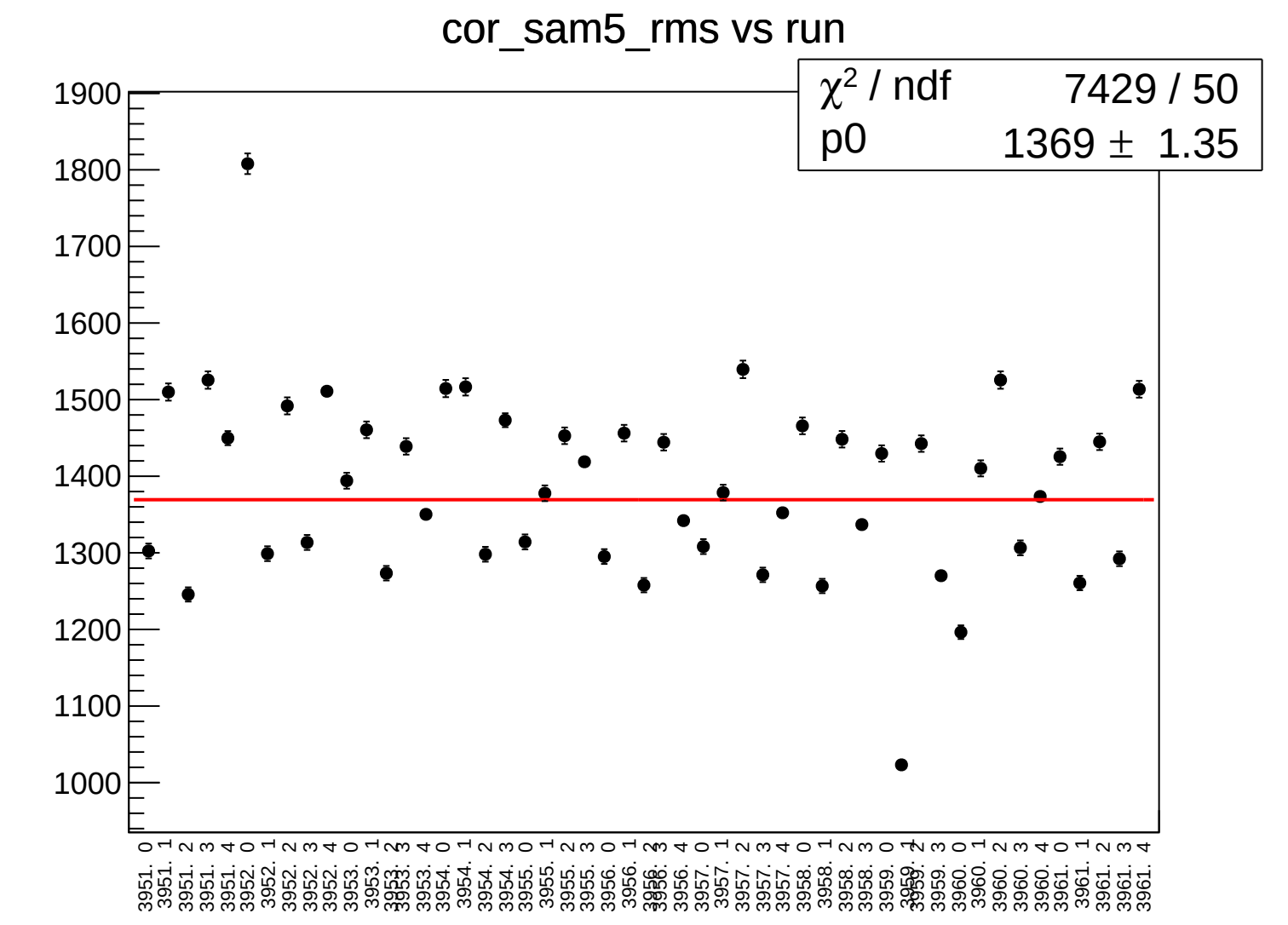

cor_sam3_rms vs run
χ² / ndf 740.9 / 50
p0 1.198e+04 ± 11.78
12600
12400
12200
12000
11800
11600
11400
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

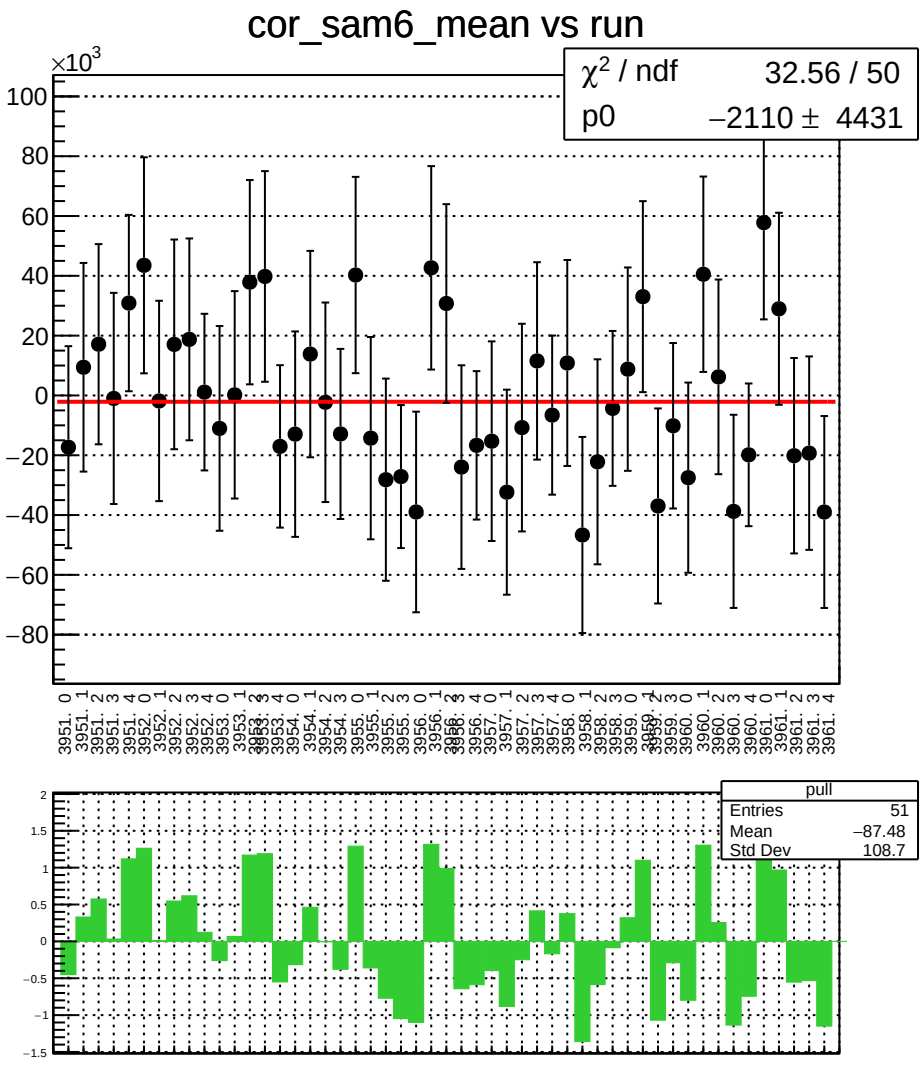

cor_sam4_mean vs run
×10^3
χ² / ndf 33.79 / 50
p0 7961 ± 9351
200
150
100
50
0
−50
−100
−150
−200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3954. 4
3955. 0
3955. 1
3955. 2
3955. 3
3955. 4
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3958. 4
3959. 0
3959. 1
3959. 2
3959. 3
3959. 4
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4
pull
Entries 51
Mean −1.675
Std Dev 12.82
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean −0.02943
Std Dev 0.8135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

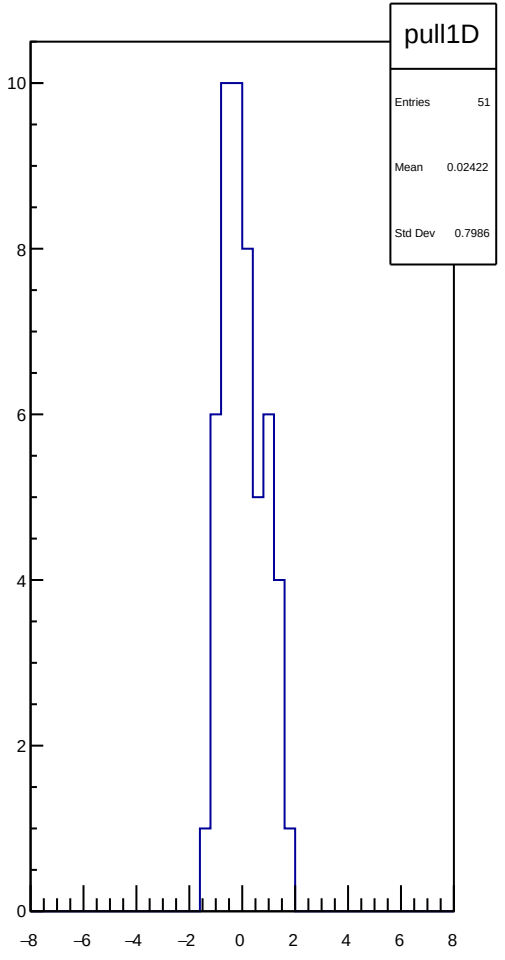

cor_sam4_rms vs run
χ² / ndf 788 / 50
p0 6727 ± 6.612
7200
7000
6800
6600
6400
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

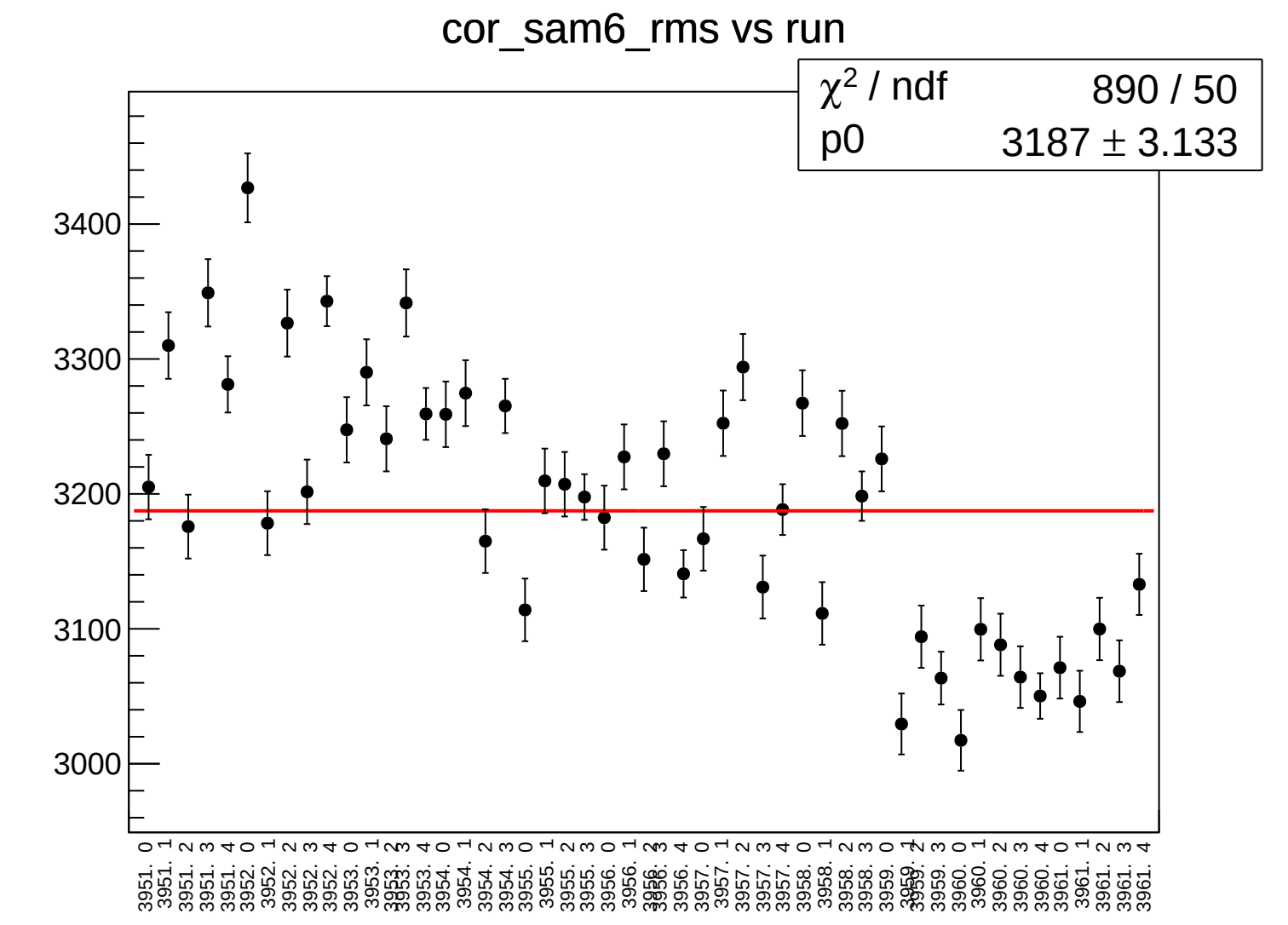

cor_sam5_mean vs run
χ² / ndf 36.54 / 50
p0 2043 ± 1910
pull
Entries 51
Mean 640
Std Dev 614.1

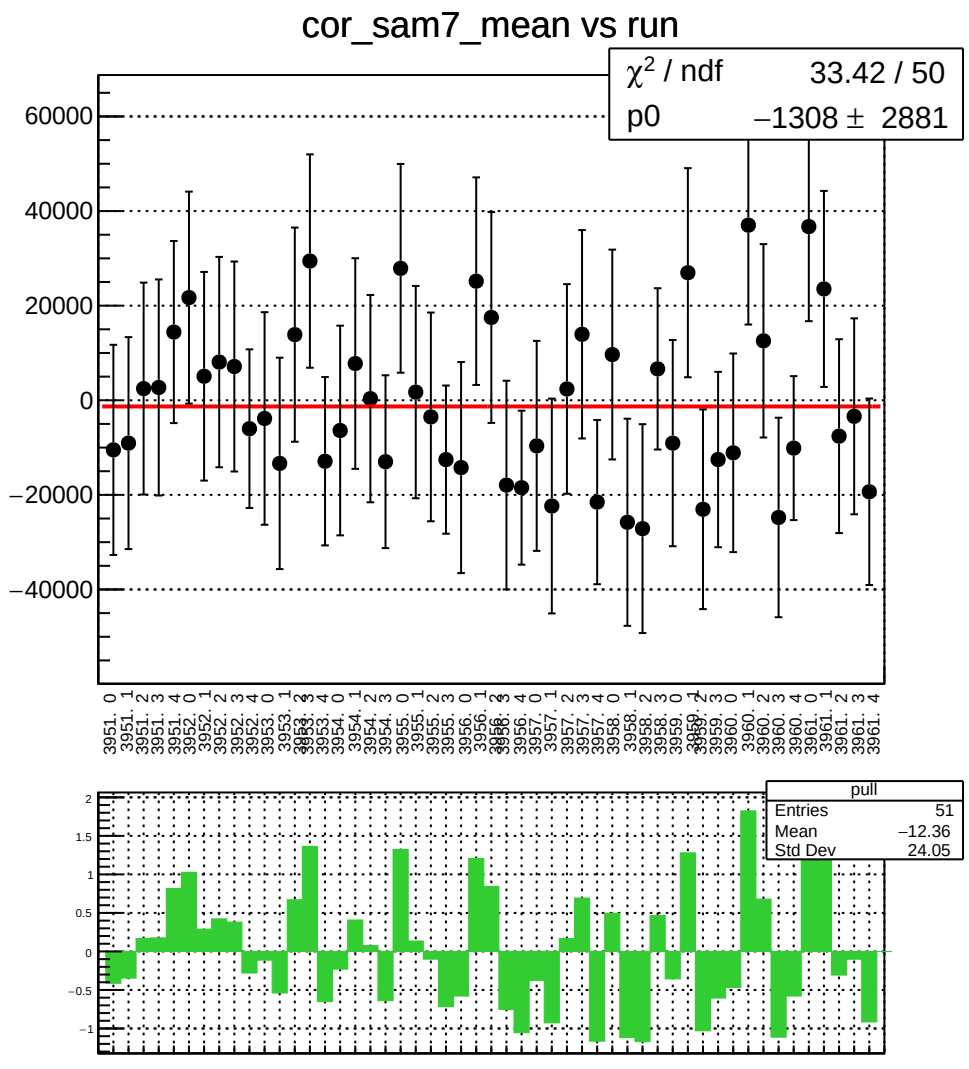

pull1D
Entries 51
Mean −0.004969
Std Dev 0.8465

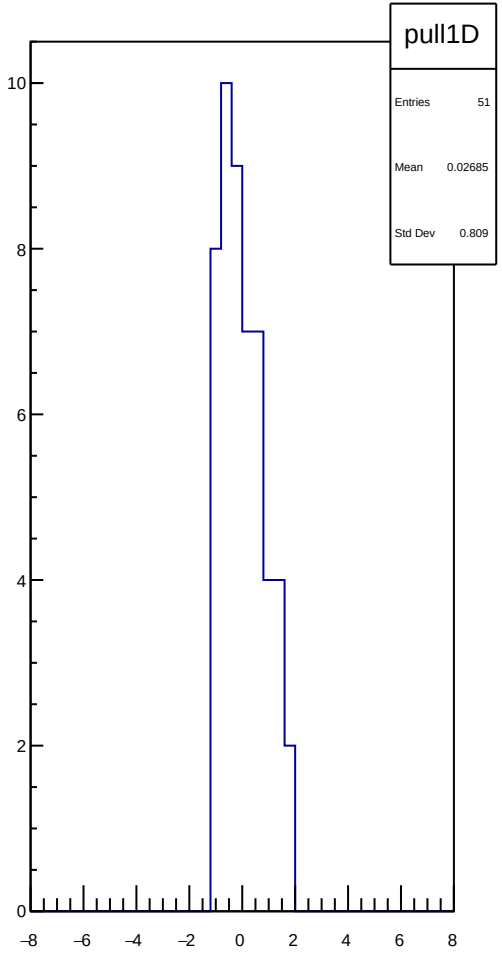

cor_sam5_rms vs run
χ² / ndf 7429 / 50
p0 1369 ± 1.35
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

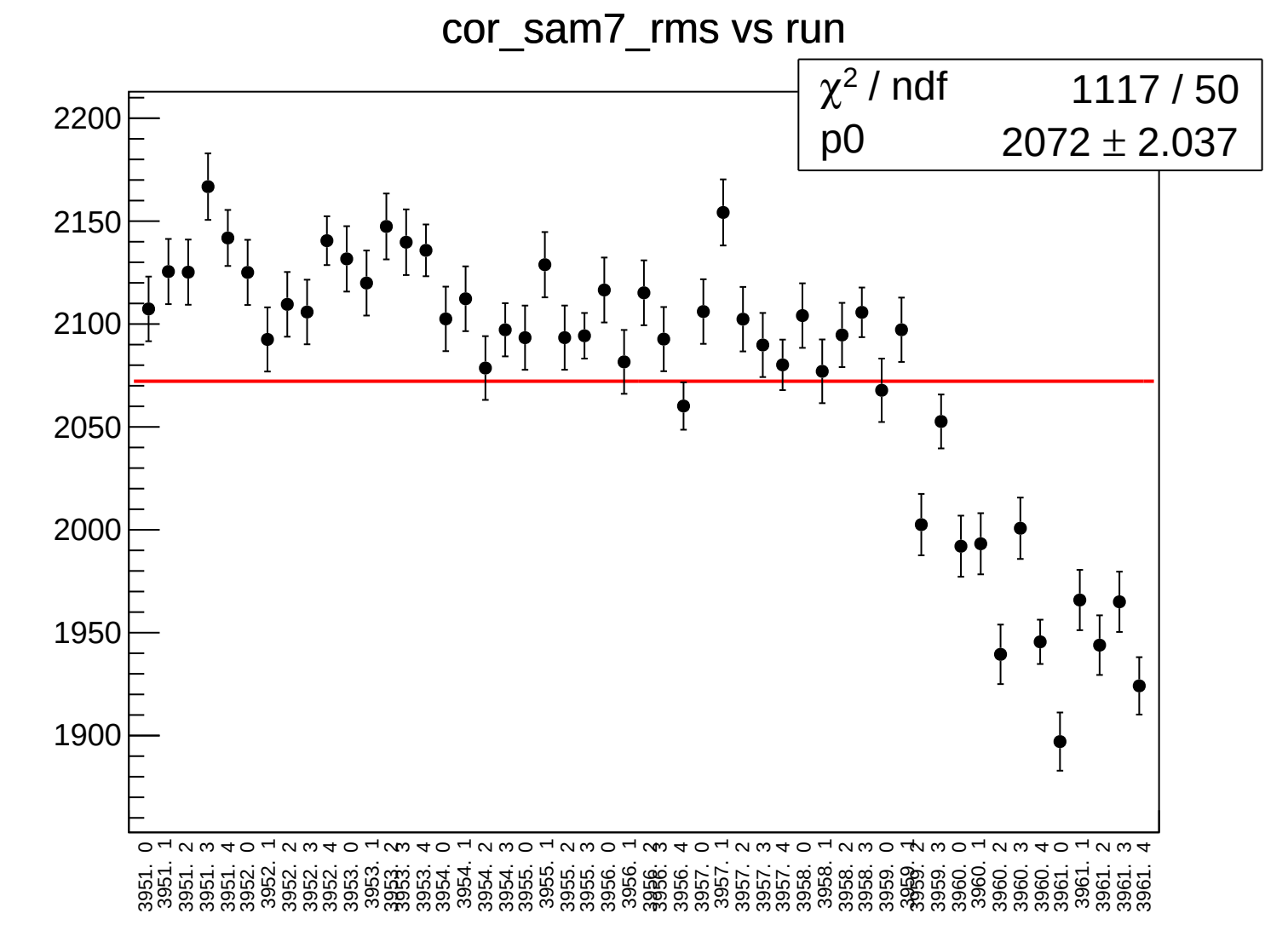

cor_sam6_mean vs run
×10^3
χ² / ndf 32.56 / 50
p0 −2110 ± 4431
pull
Entries 51
Mean −87.48
Std Dev 108.7

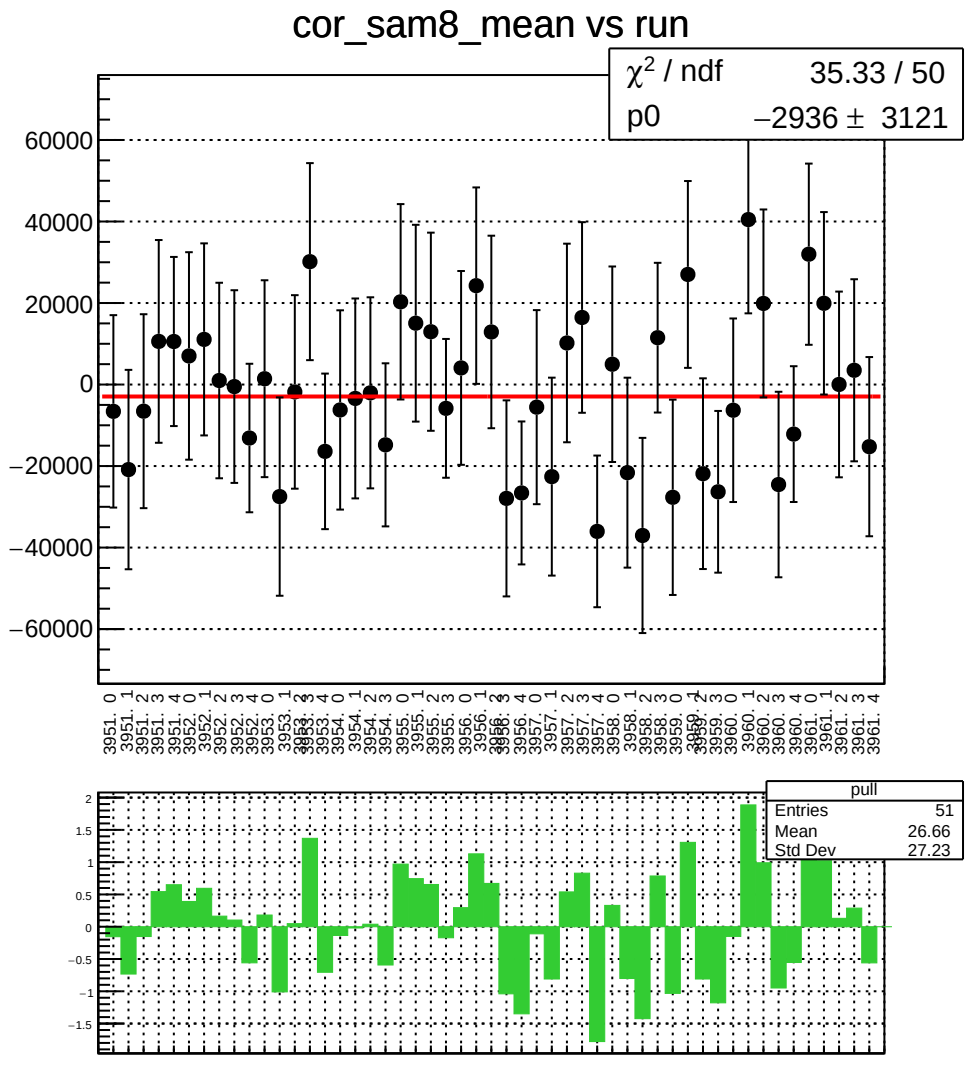

pull1D
Entries 51
Mean 0.02422
Std Dev 0.7986

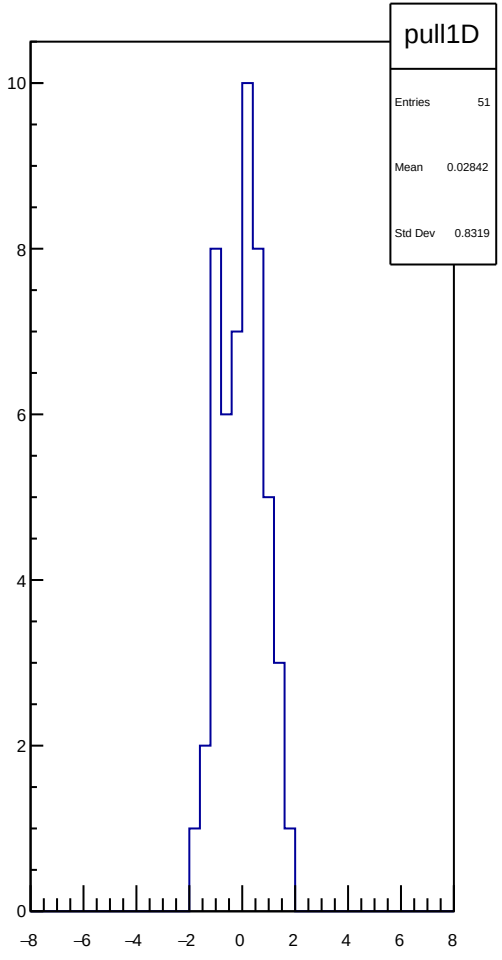

cor_sam6_rms vs run
χ² / ndf 890 / 50
p0 3187 ± 3.133
3400
3300
3200
3100
3000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

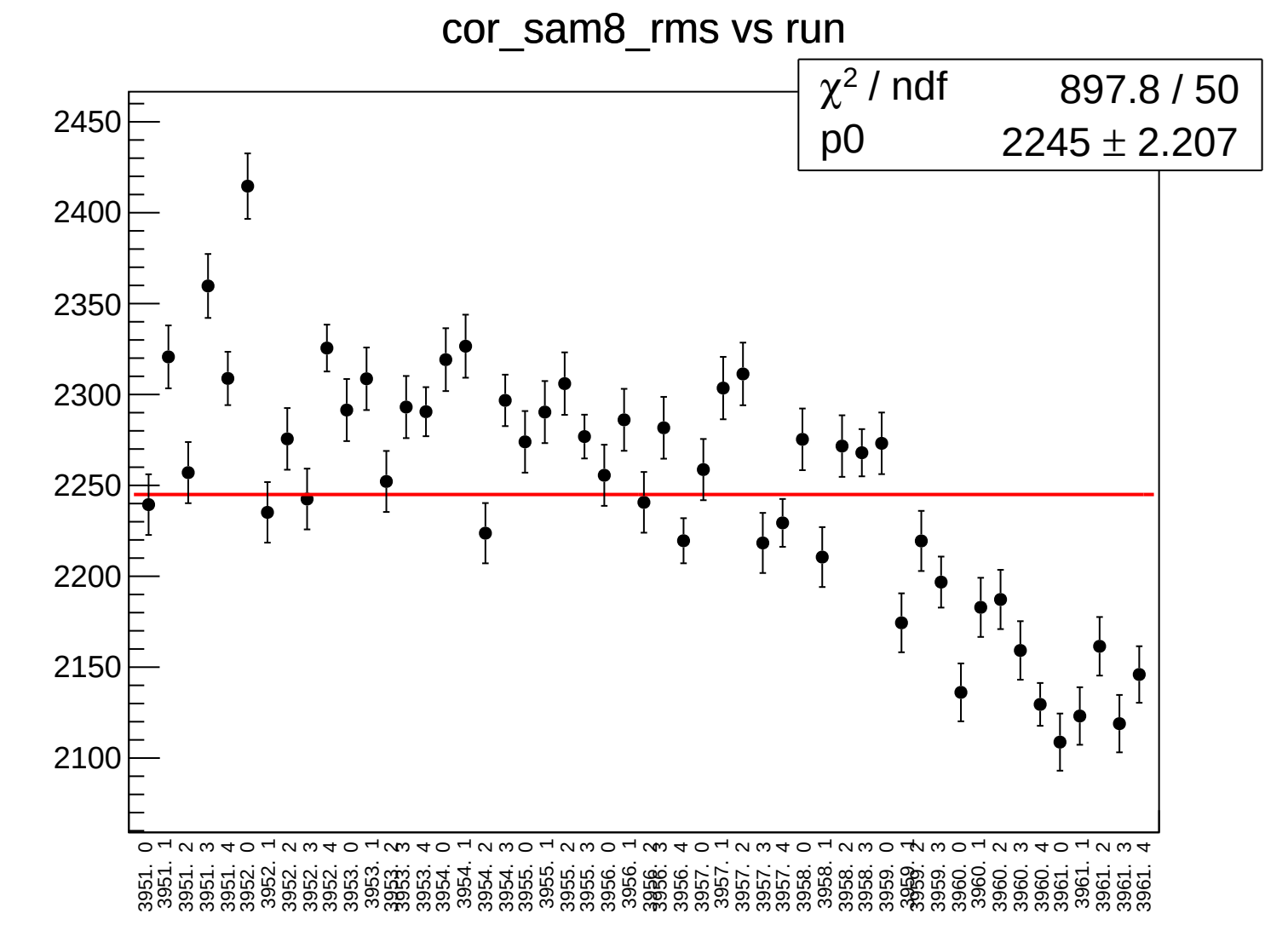

cor_sam7_mean vs run
χ² / ndf 33.42 / 50
p0 −1308 ± 2881
pull
Entries 51
Mean −12.36
Std Dev 24.05

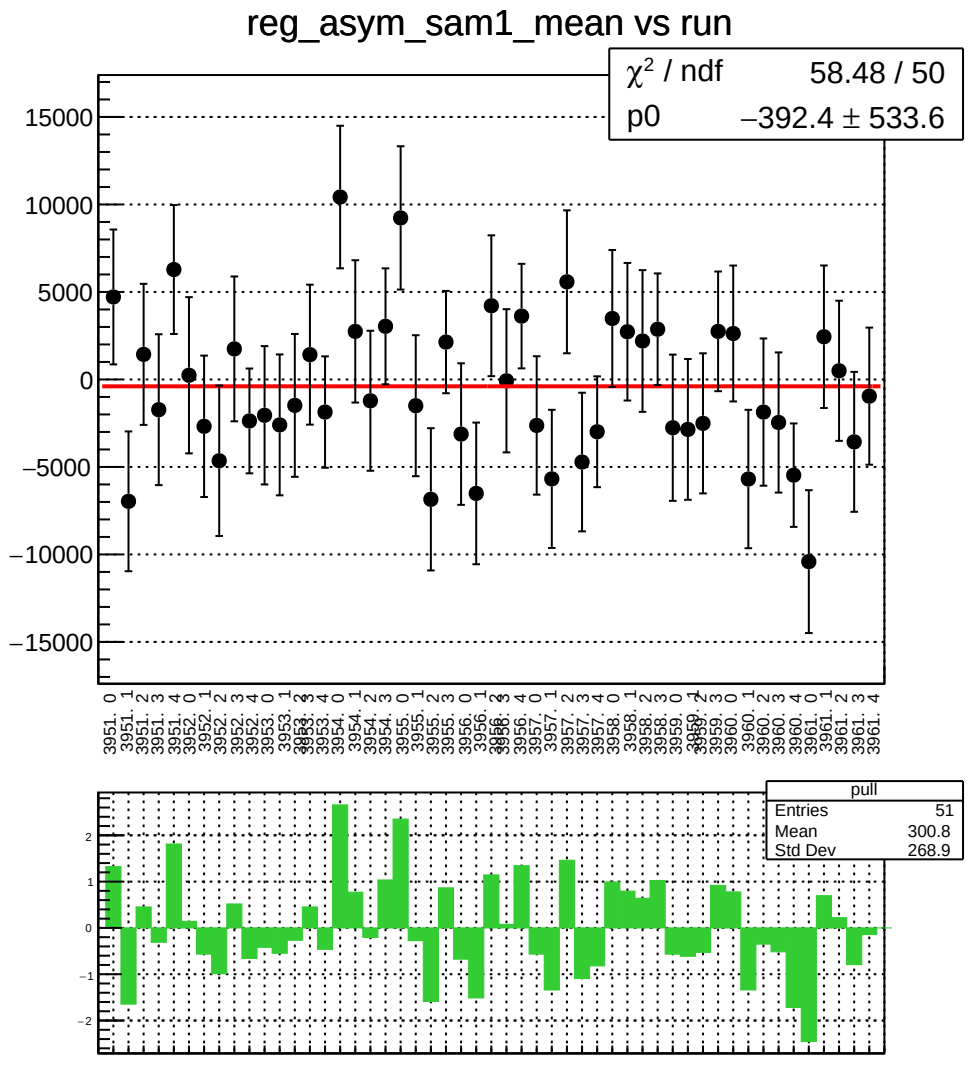

pull1D
Entries 51
Mean 0.02685
Std Dev 0.809

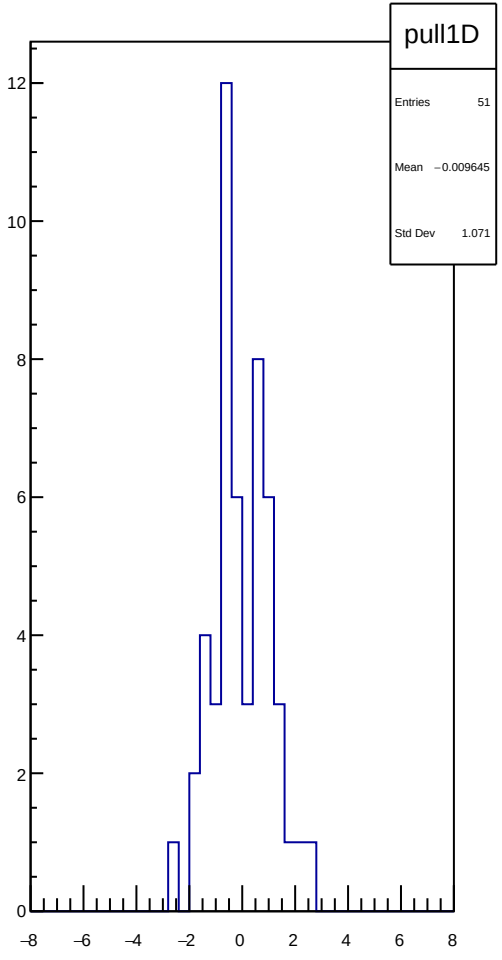

cor_sam7_rms vs run
χ² / ndf 1117 / 50
p0 2072 ± 2.037
2200
2150
2100
2050
2000
1950
1900
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

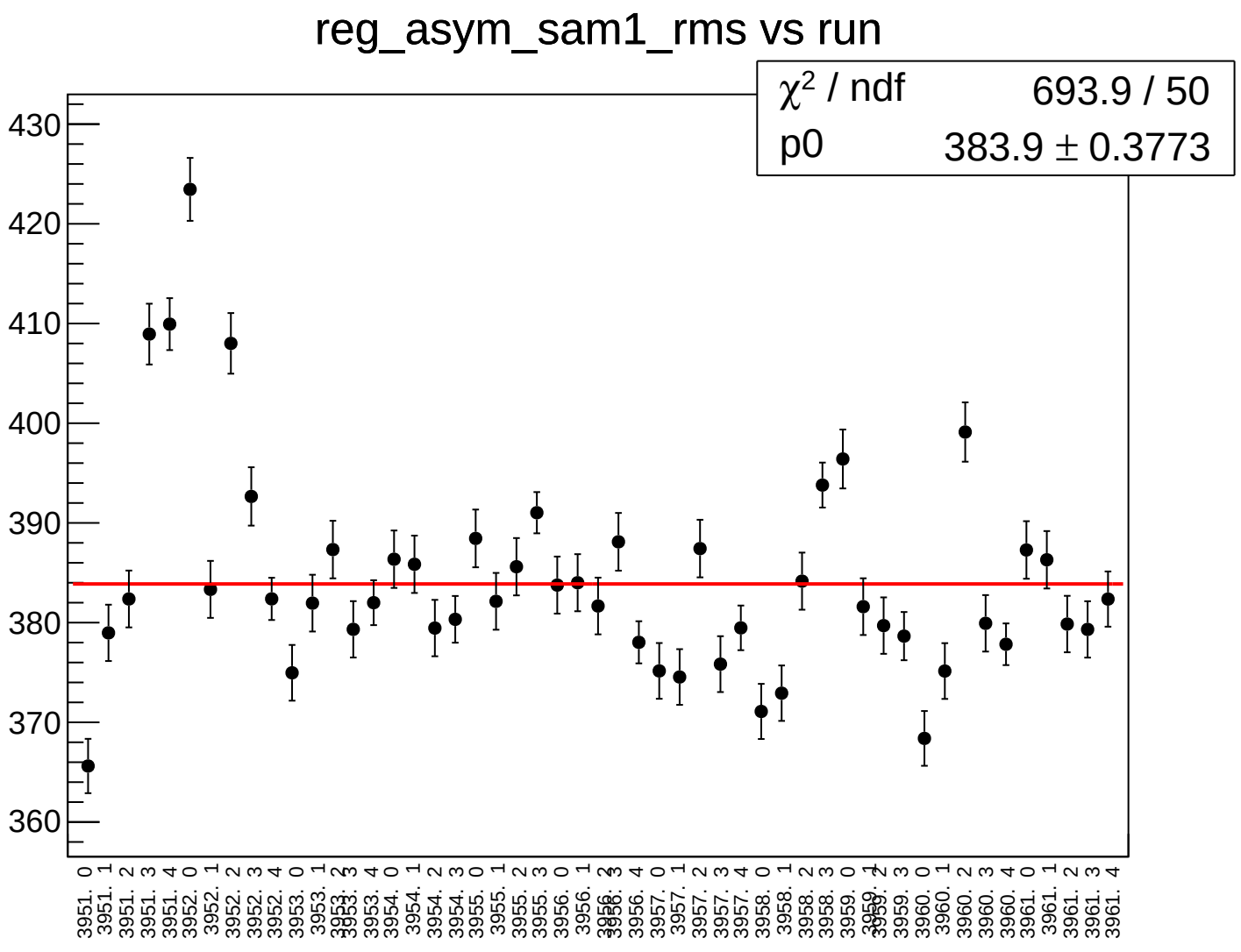

cor_sam8_mean vs run
χ² / ndf 35.33 / 50
p0 −2936 ± 3121
pull
Entries 51
Mean 26.66
Std Dev 27.23

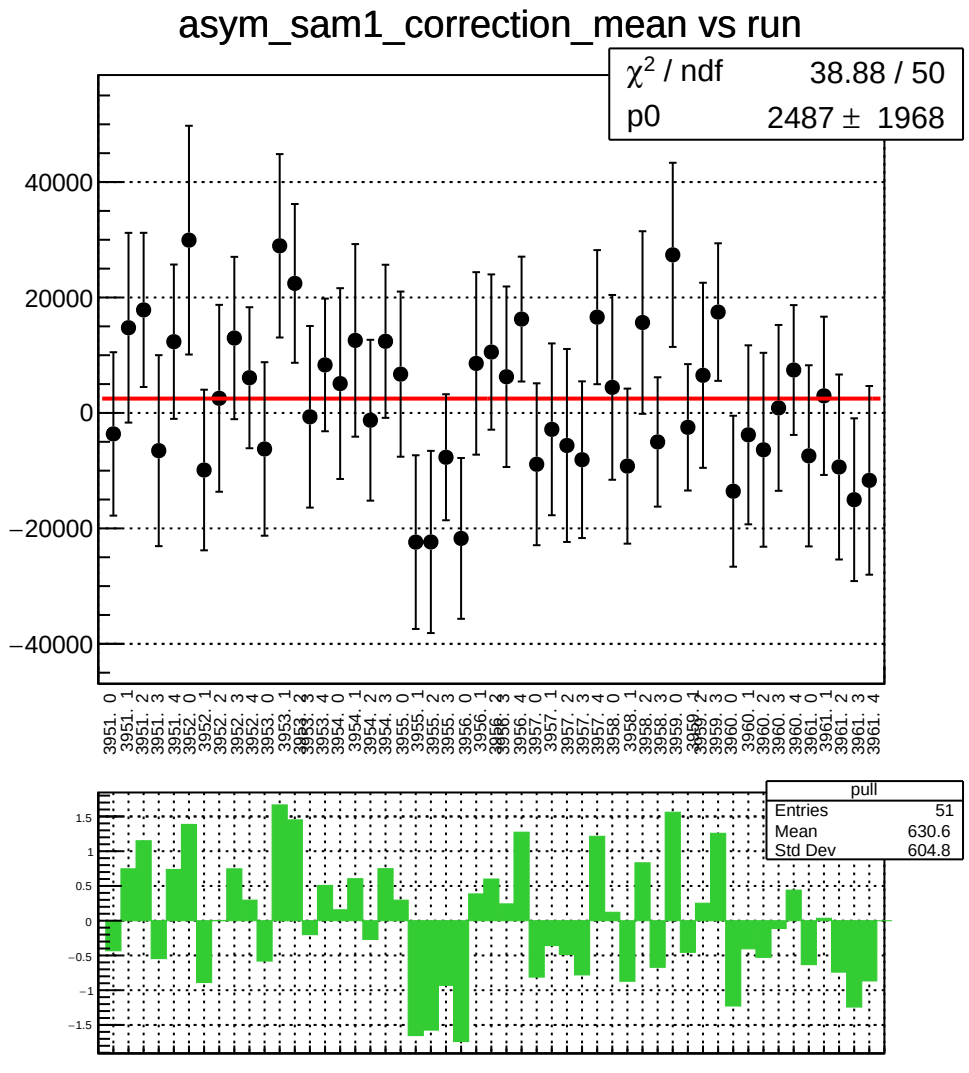

pull1D
Entries 51
Mean 0.02842
Std Dev 0.8319

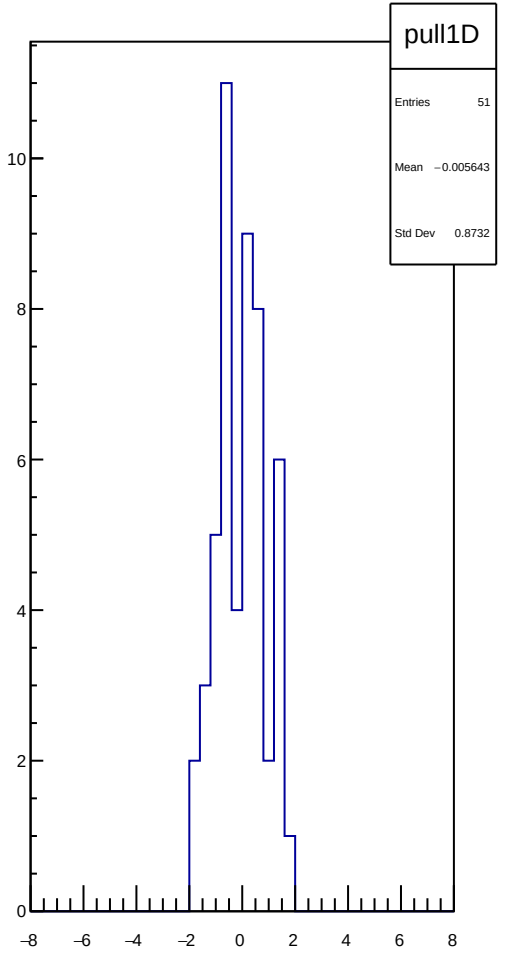

cor_sam8_rms vs run
χ² / ndf 897.8 / 50
p0 2245 ± 2.207
2450
2400
2350
2300
2250
2200
2150
2100
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

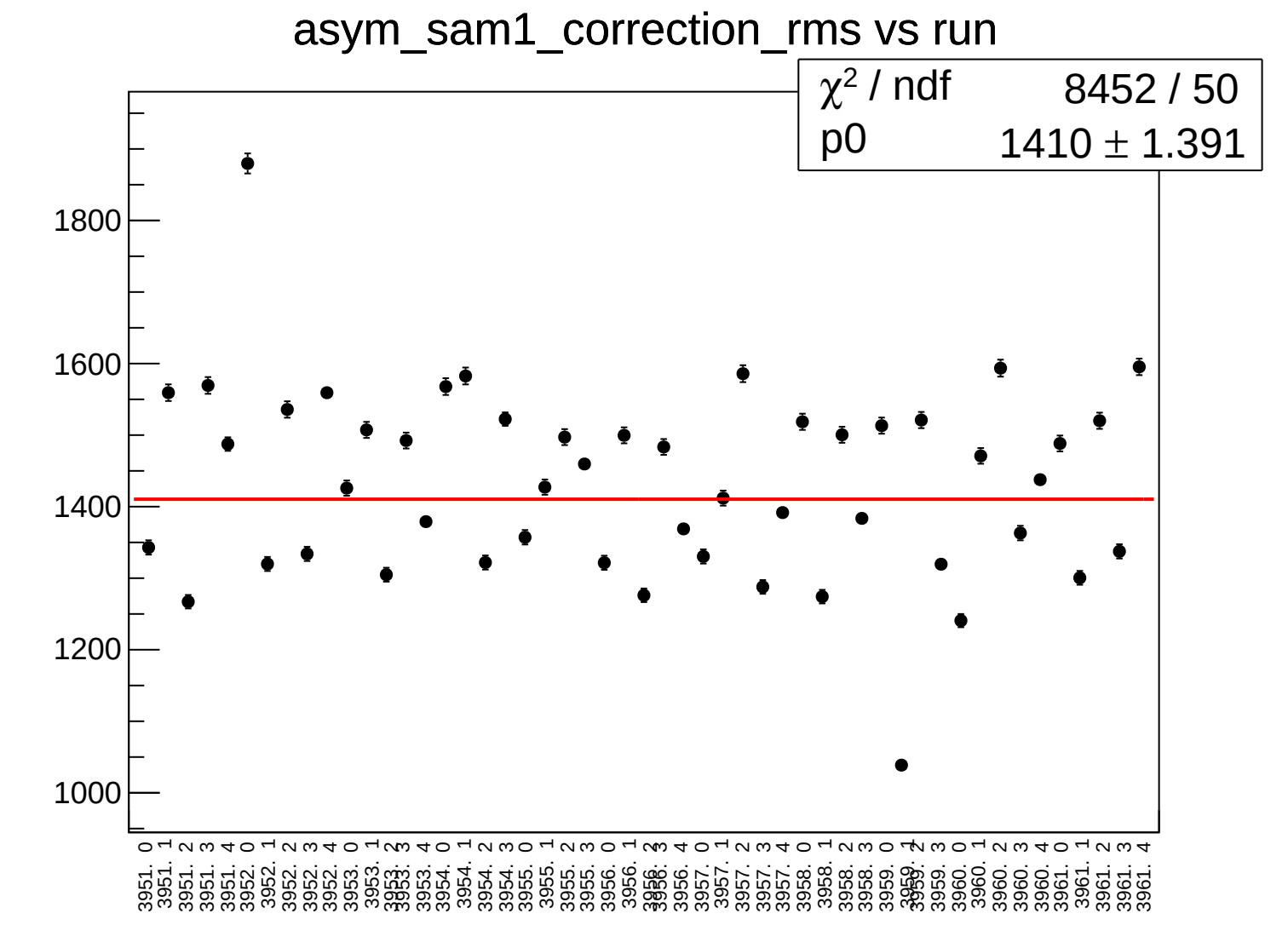

reg_asym_sam1_mean vs run
χ² / ndf 58.48 / 50
p0 −392.4 ± 533.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean 300.8
Std Dev 268.9
2
1
0
−1
−2

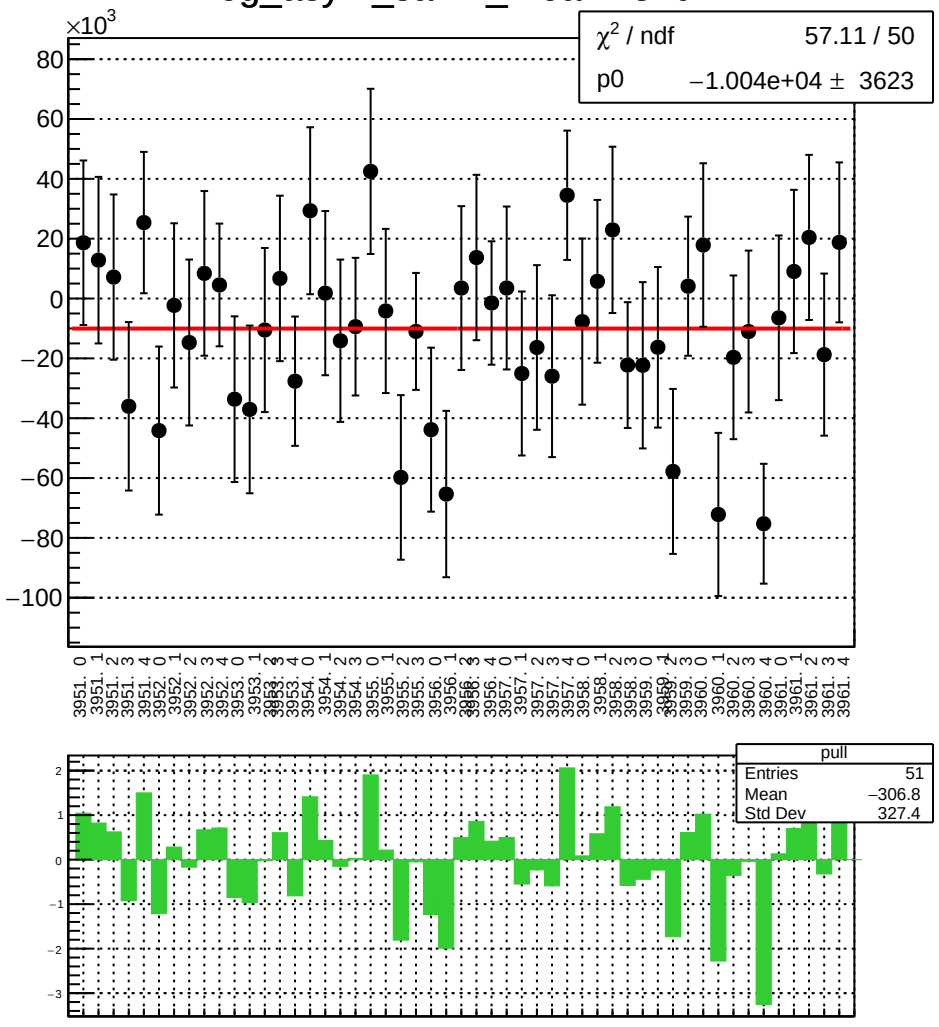

pull1D
Entries 51
Mean −0.009645
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

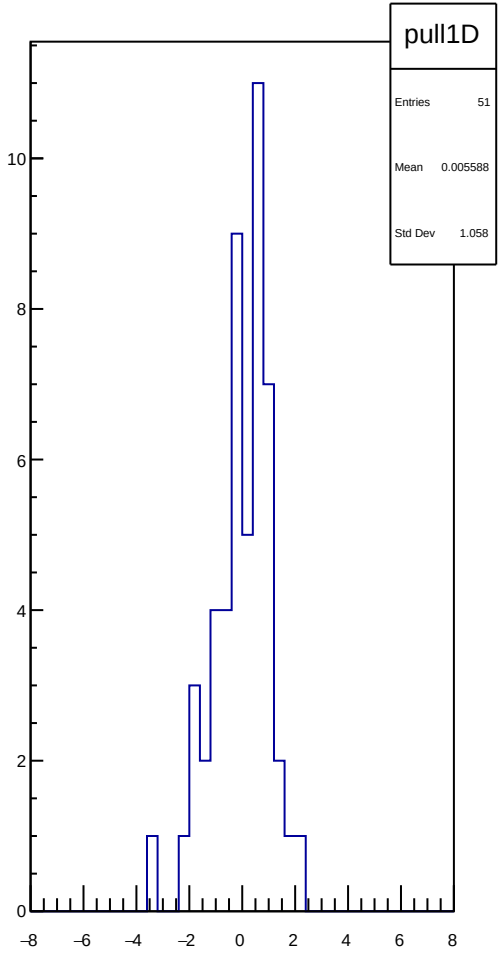

reg_asym_sam1_rms vs run
χ² / ndf 693.9 / 50
p0 383.9 ± 0.3773
430
420
410
400
390
380
370
360
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

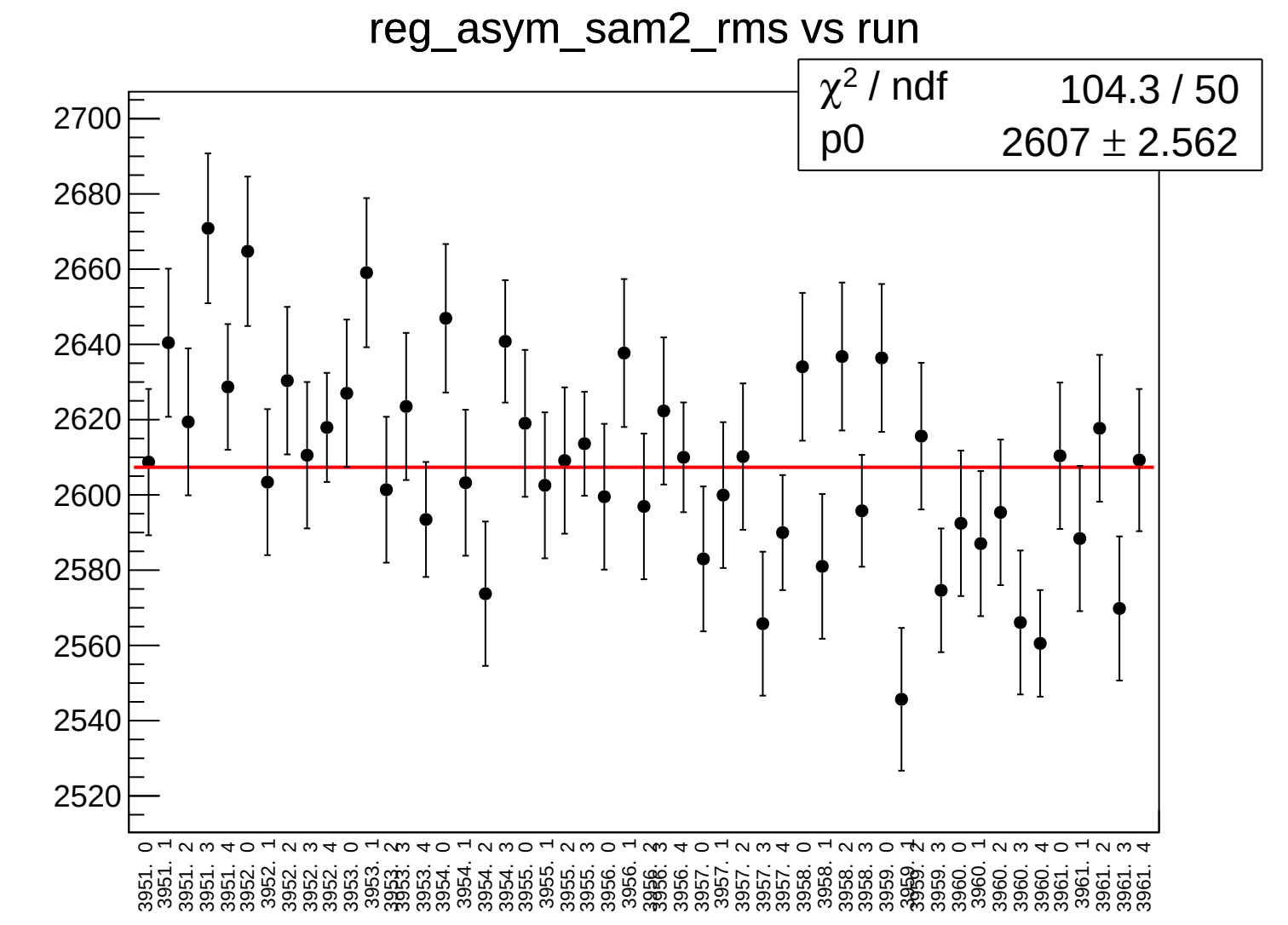

asym_sam1_correction_mean vs run
χ² / ndf 38.88 / 50
p0 2487 ± 1968
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 630.6
Std Dev 604.8
1.5
1
0.5
0
−0.5
−1
−1.5

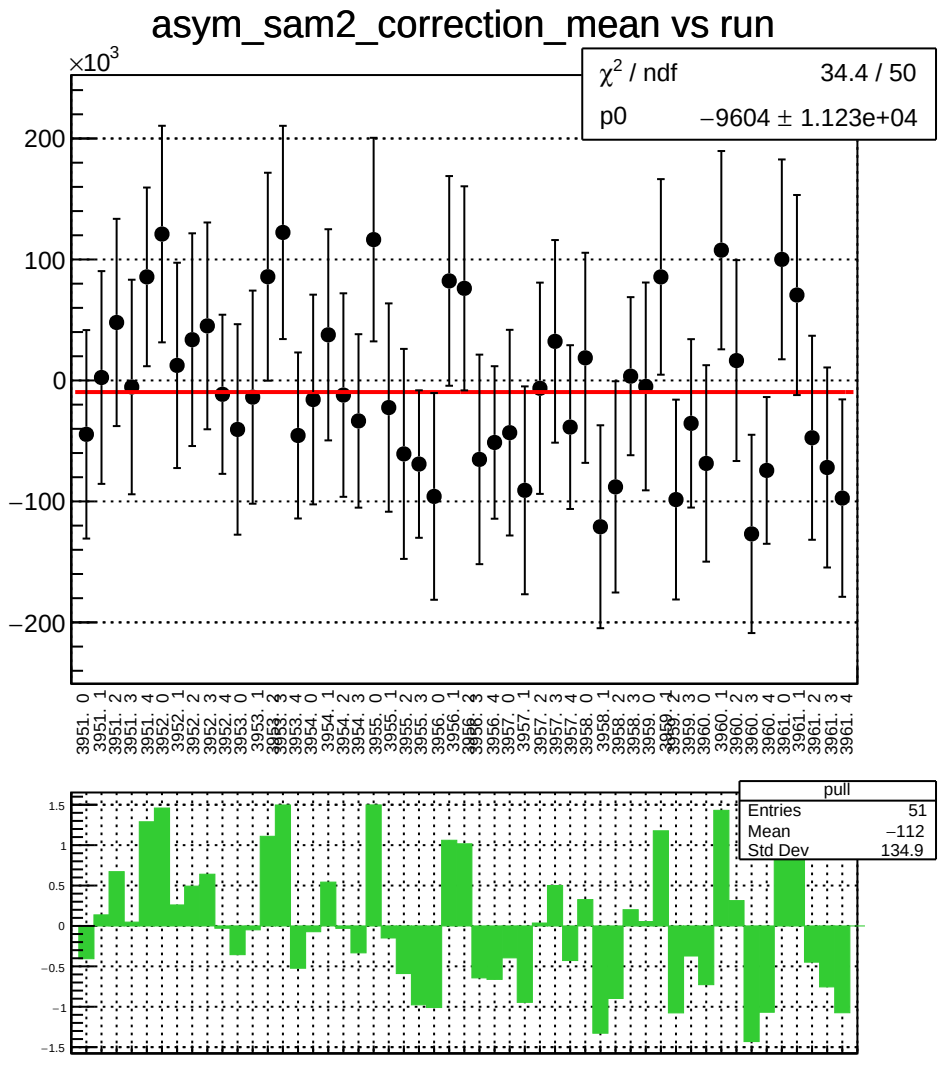

pull1D
Entries 51
Mean −0.005643
Std Dev 0.8732
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

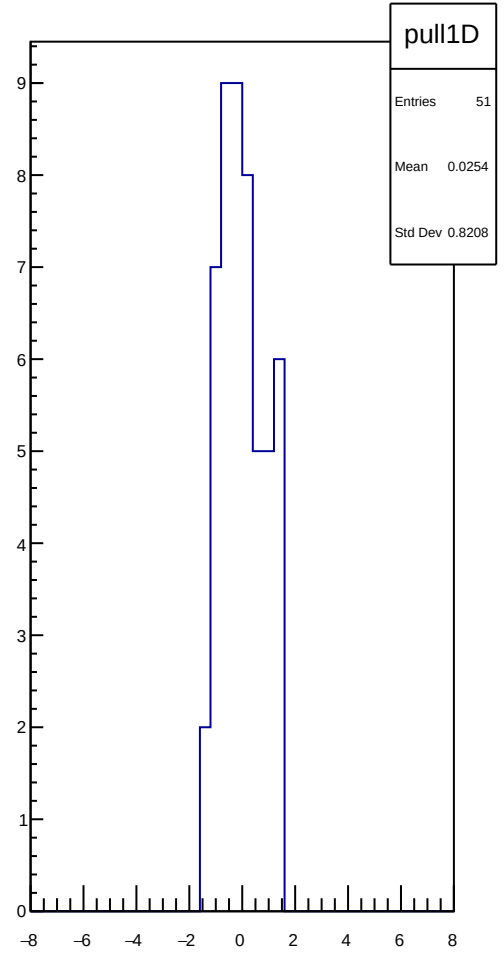

asym_sam1_correction_rms vs run
χ² / ndf 8452 / 50
p0 1410 ± 1.391
1800
1600
1400
1200
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

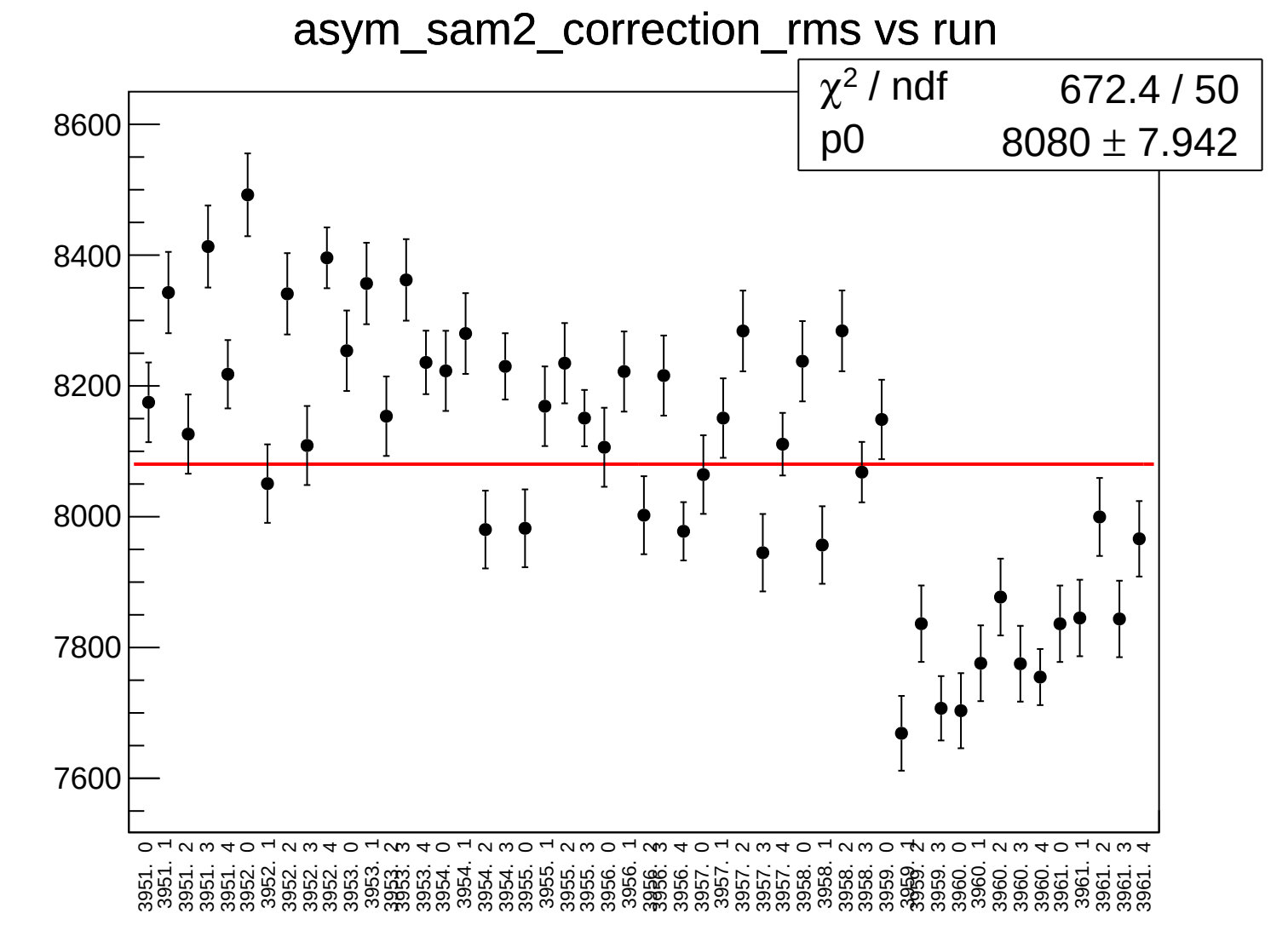

reg_asym_sam2_mean vs run
×10^3
χ² / ndf 57.11 / 50
p0 −1.004e+04 ± 3623
pull
Entries 51
Mean −306.8
Std Dev 327.4

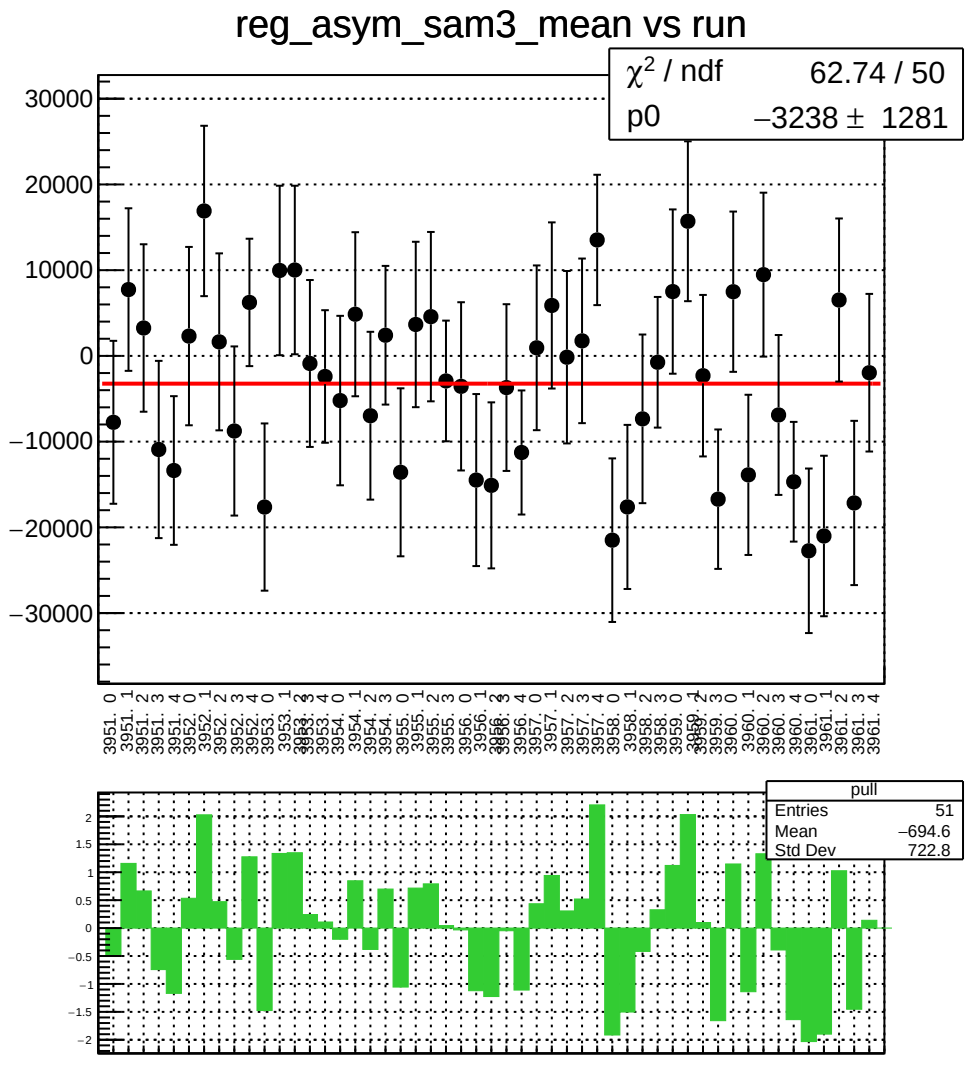

pull1D
Entries 51
Mean 0.005588
Std Dev 1.058

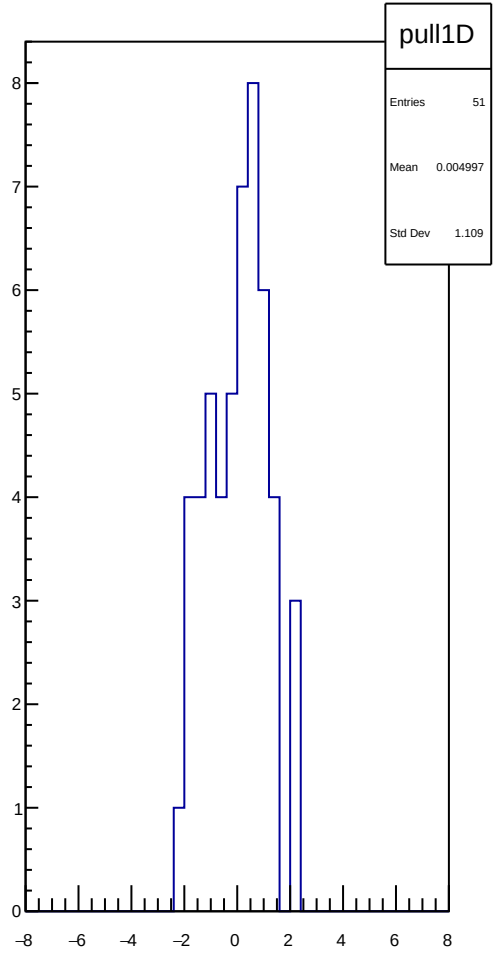

reg_asym_sam2_rms vs run
χ² / ndf 104.3 / 50
p0 2607 ± 2.562
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

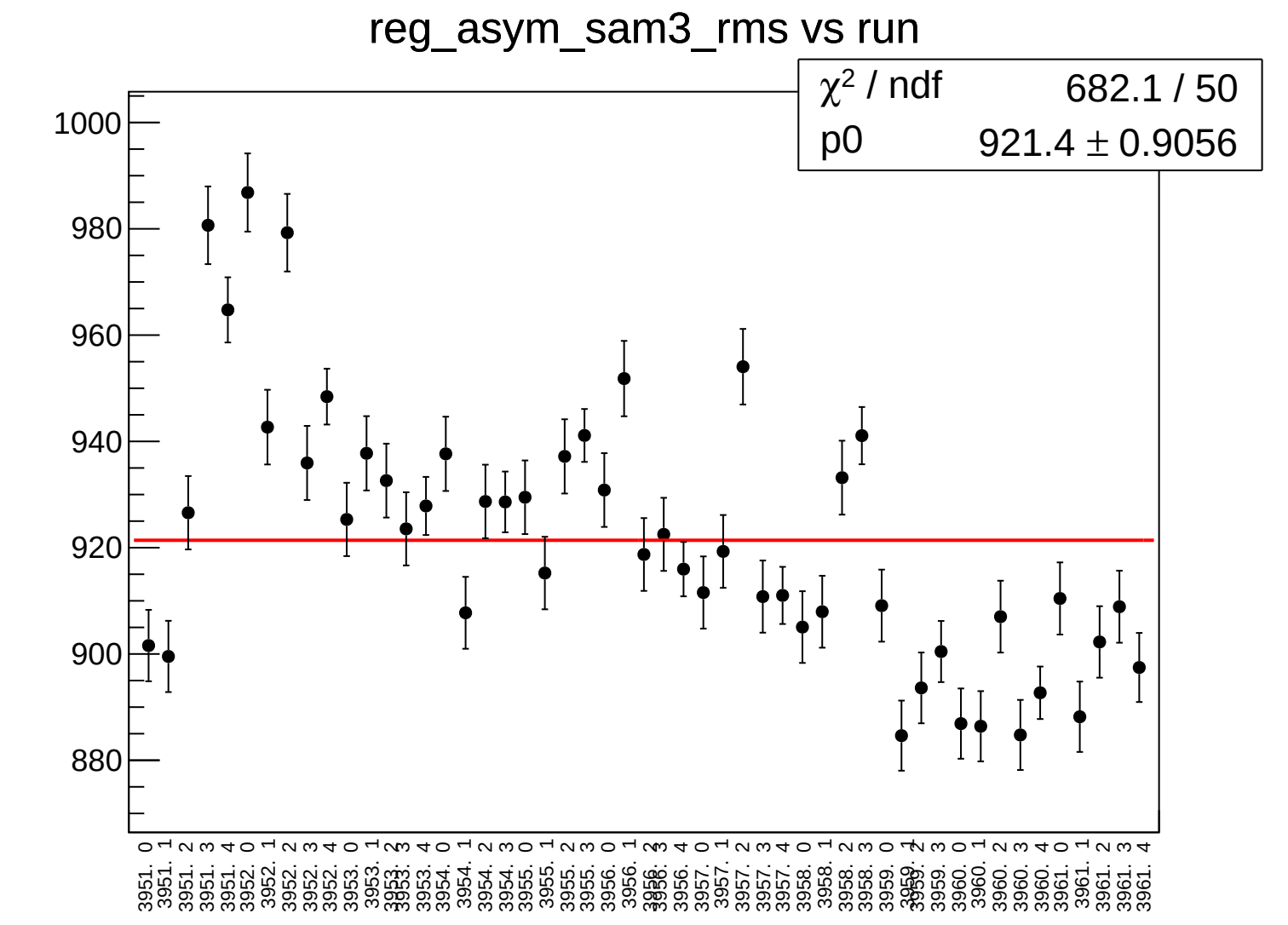

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 34.4 / 50
p0 −9604 ± 1.123e+04
200
100
0
−100
−200
pull
Entries 51
Mean −112
Std Dev 134.9
1.5
1
0.5
0
−0.5
−1
−1.5

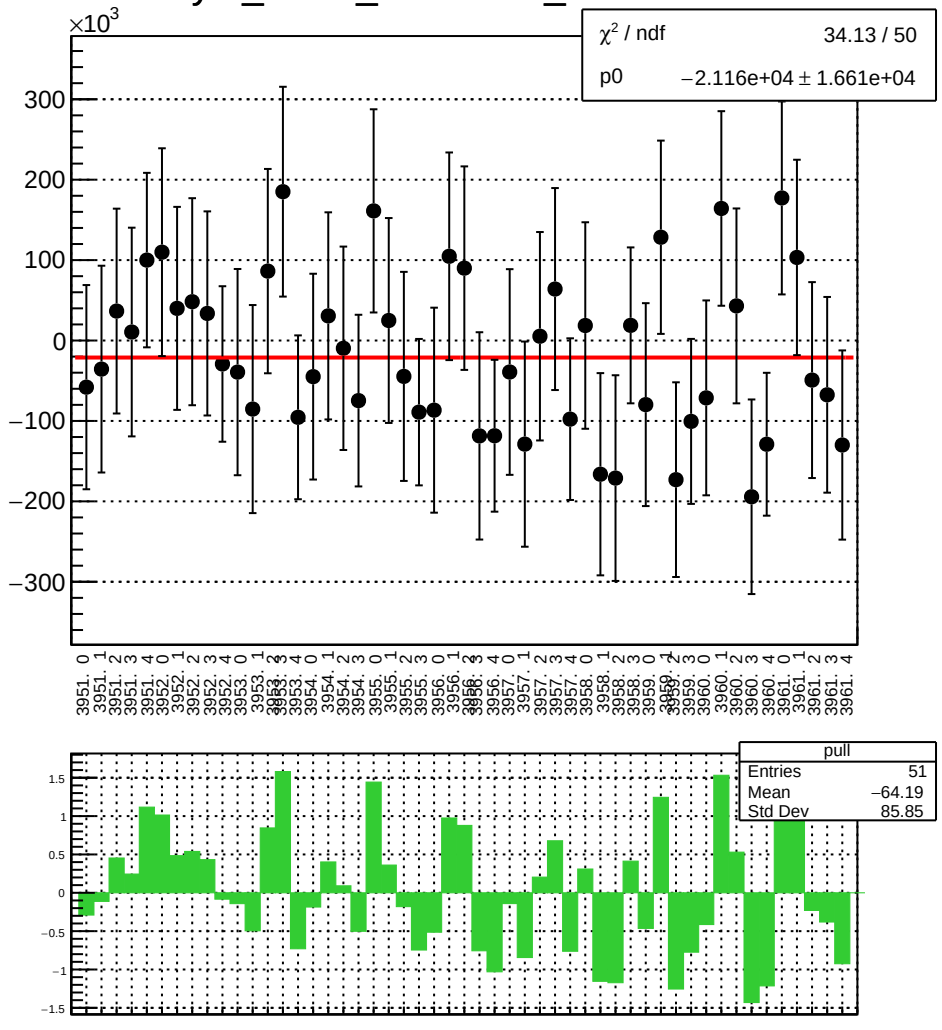

pull1D
Entries 51
Mean 0.0254
Std Dev 0.8208
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

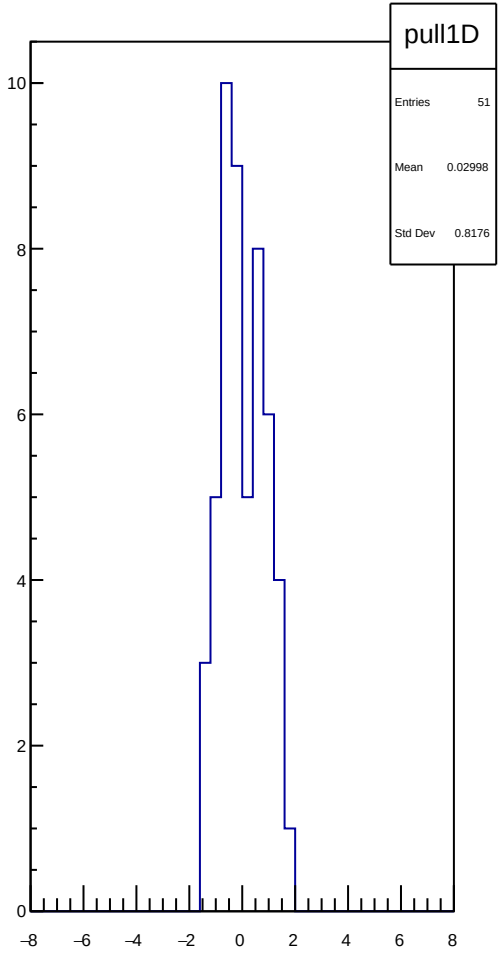

asym_sam2_correction_rms vs run
χ² / ndf 672.4 / 50
p0 8080 ± 7.942
8600
8400
8200
8000
7800
7600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

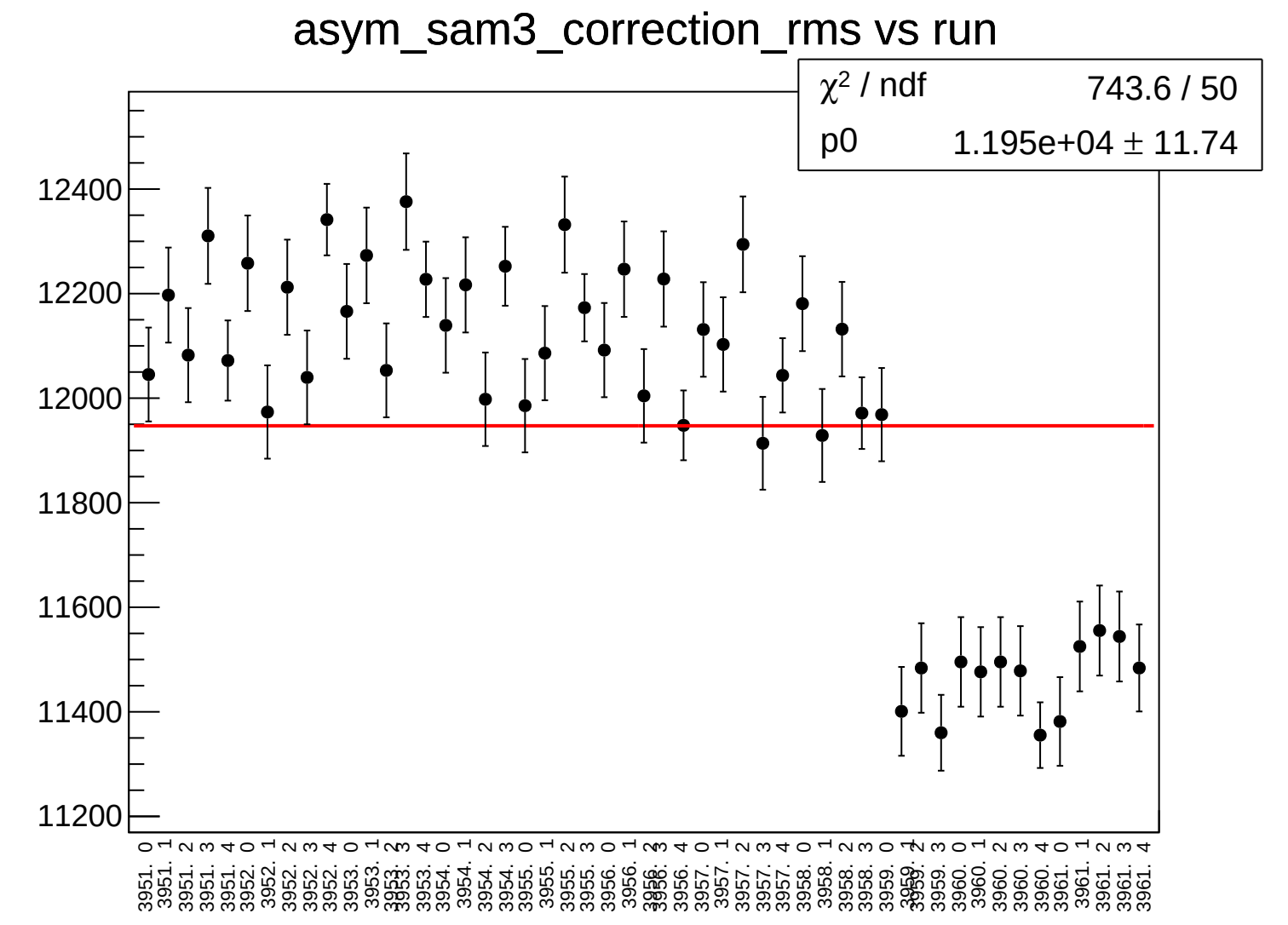

reg_asym_sam3_mean vs run
χ² / ndf 62.74 / 50
p0 −3238 ± 1281
pull
Entries 51
Mean −694.6
Std Dev 722.8

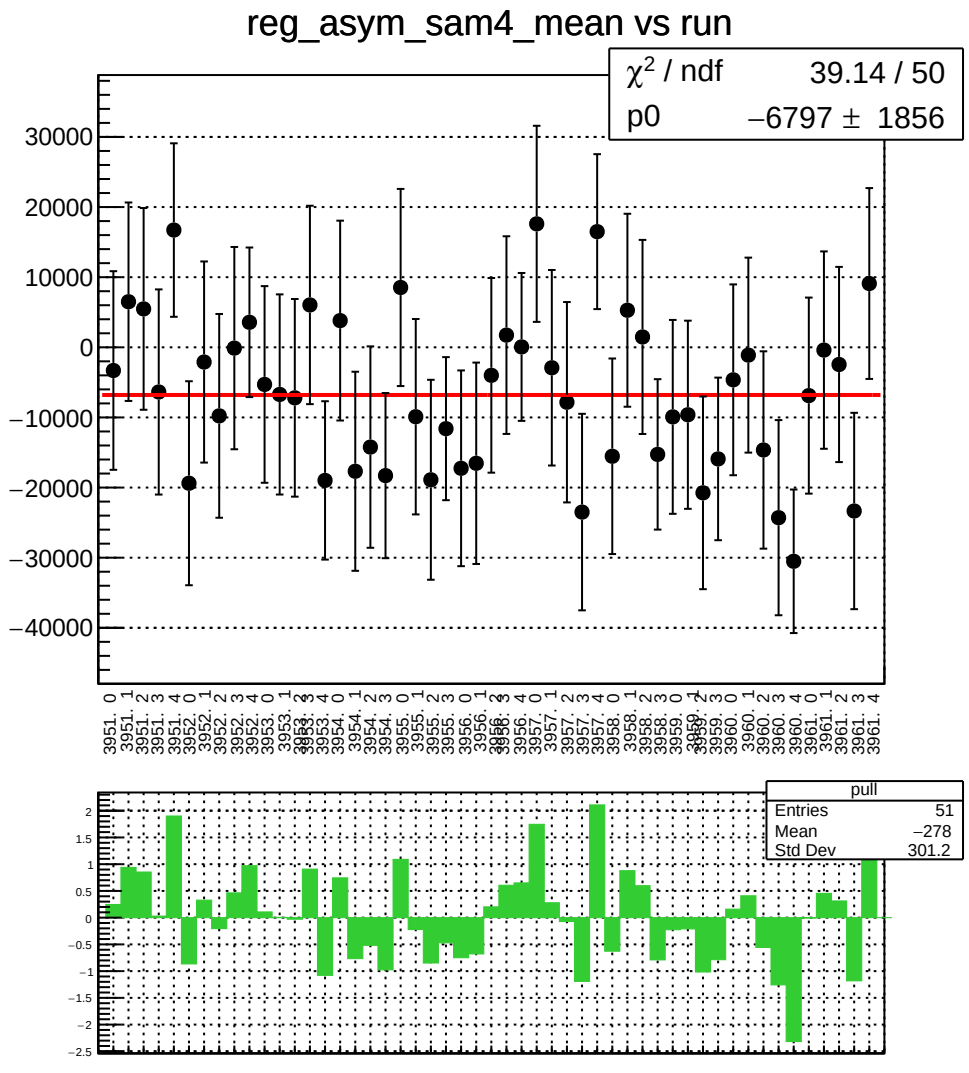

pull1D
Entries 51
Mean 0.004997
Std Dev 1.109

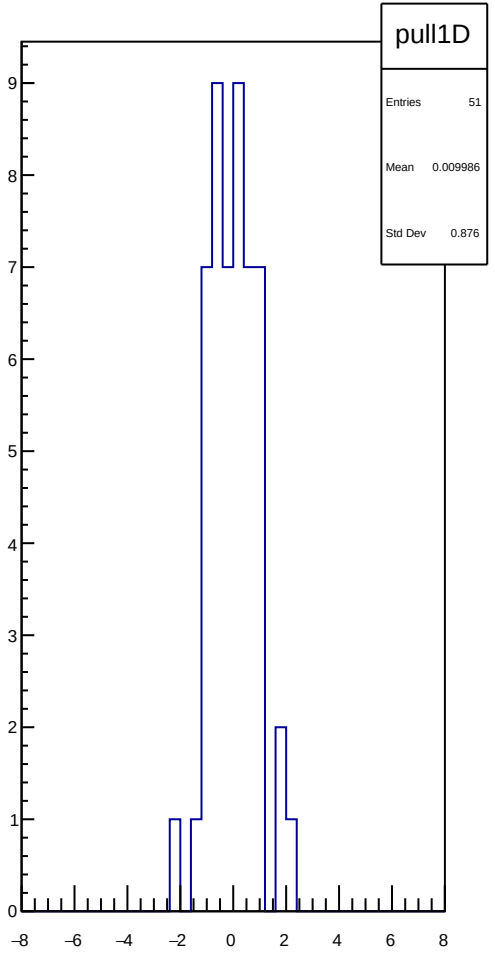

reg_asym_sam3_rms vs run
χ² / ndf 682.1 / 50
p0 921.4 ± 0.9056
1000
980
960
940
920
900
880
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

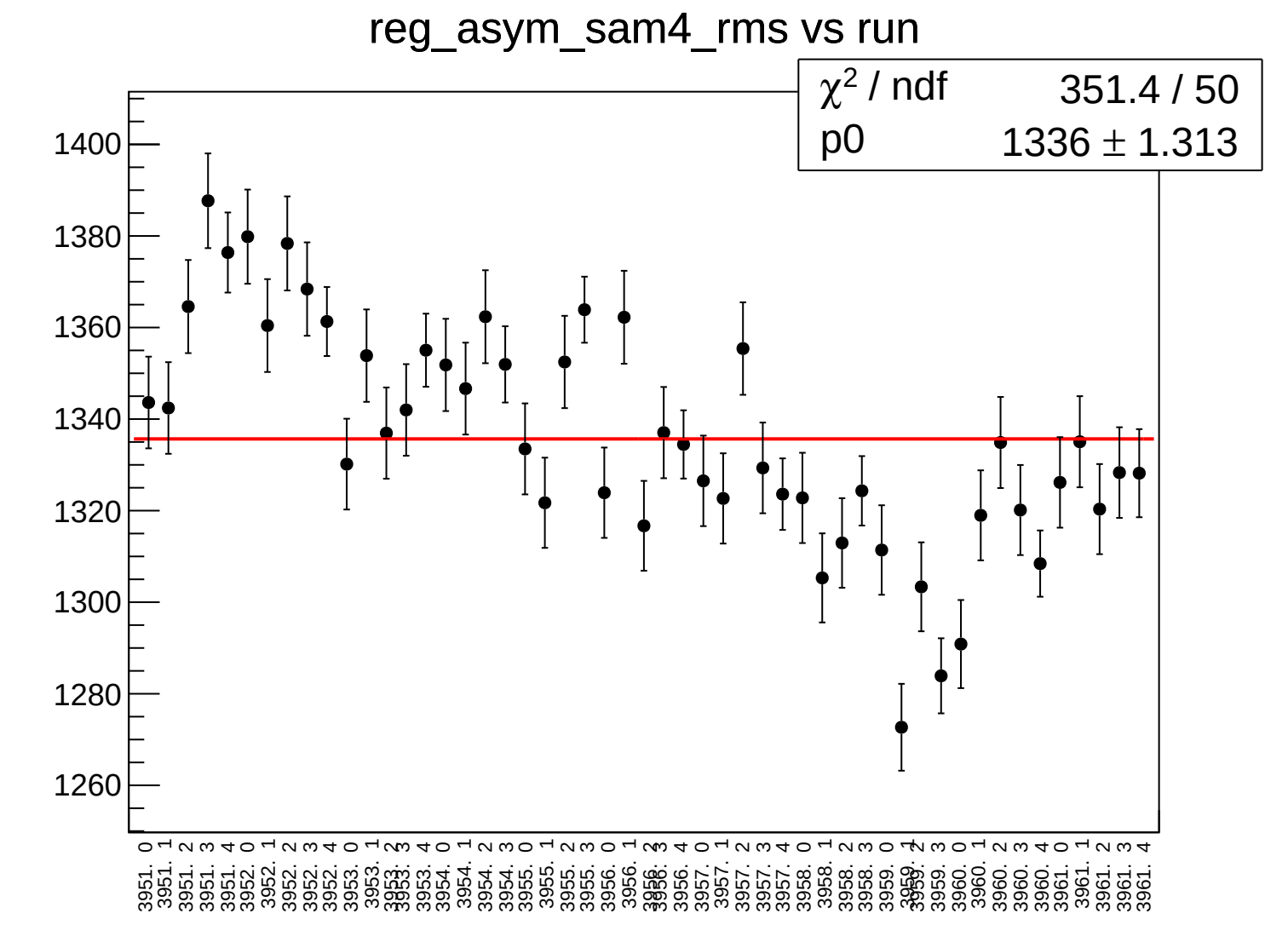

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 34.13 / 50
p0 −2.116e+04 ± 1.661e+04
pull
Entries 51
Mean −64.19
Std Dev 85.85

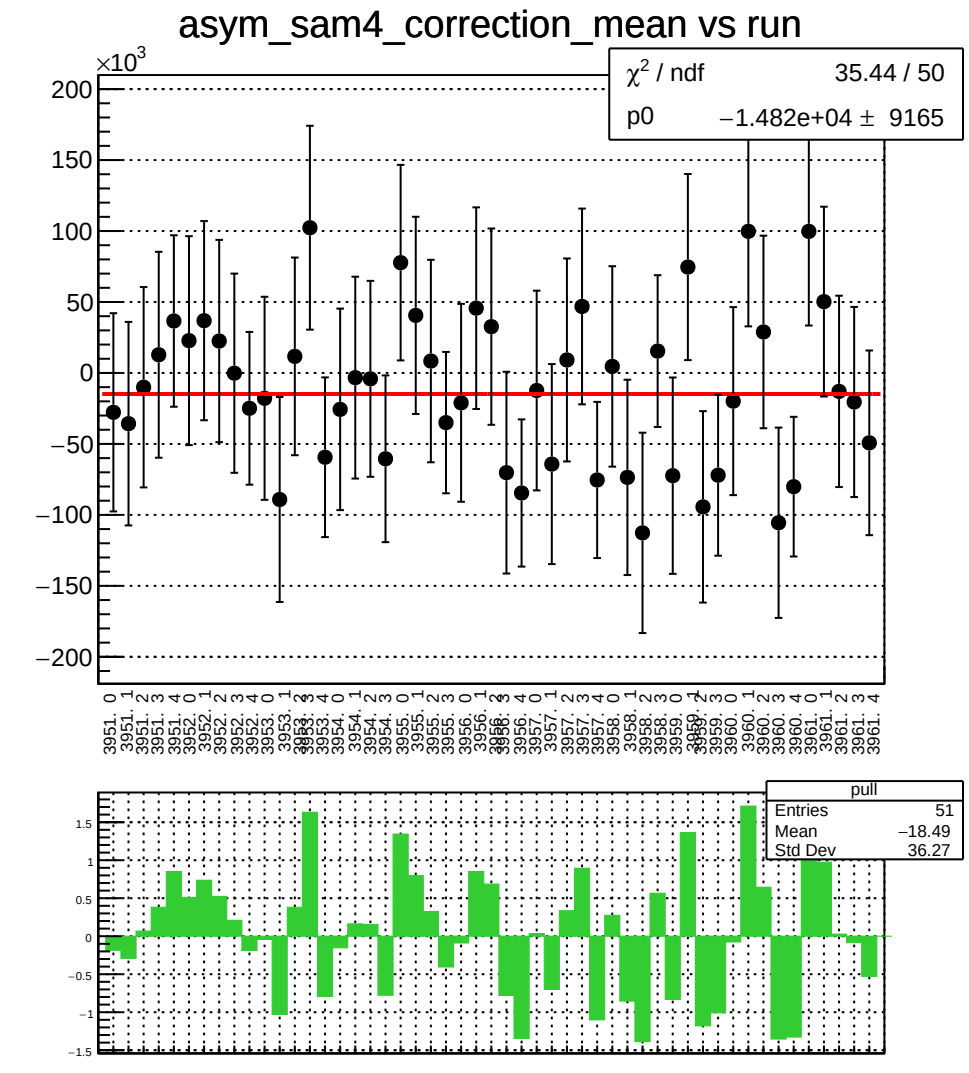

pull1D
Entries 51
Mean 0.02998
Std Dev 0.8176

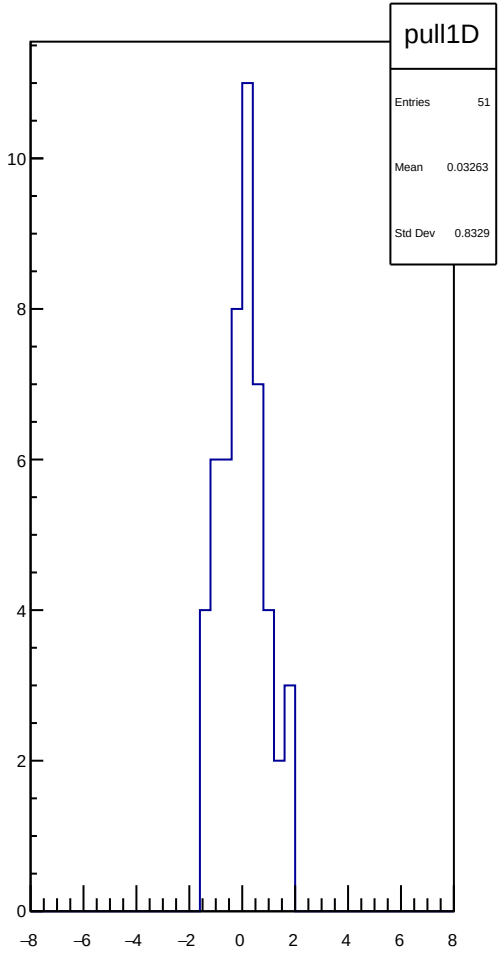

asym_sam3_correction_rms vs run
χ² / ndf 743.6 / 50
p0 1.195e+04 ± 11.74
12400
12200
12000
11800
11600
11400
11200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

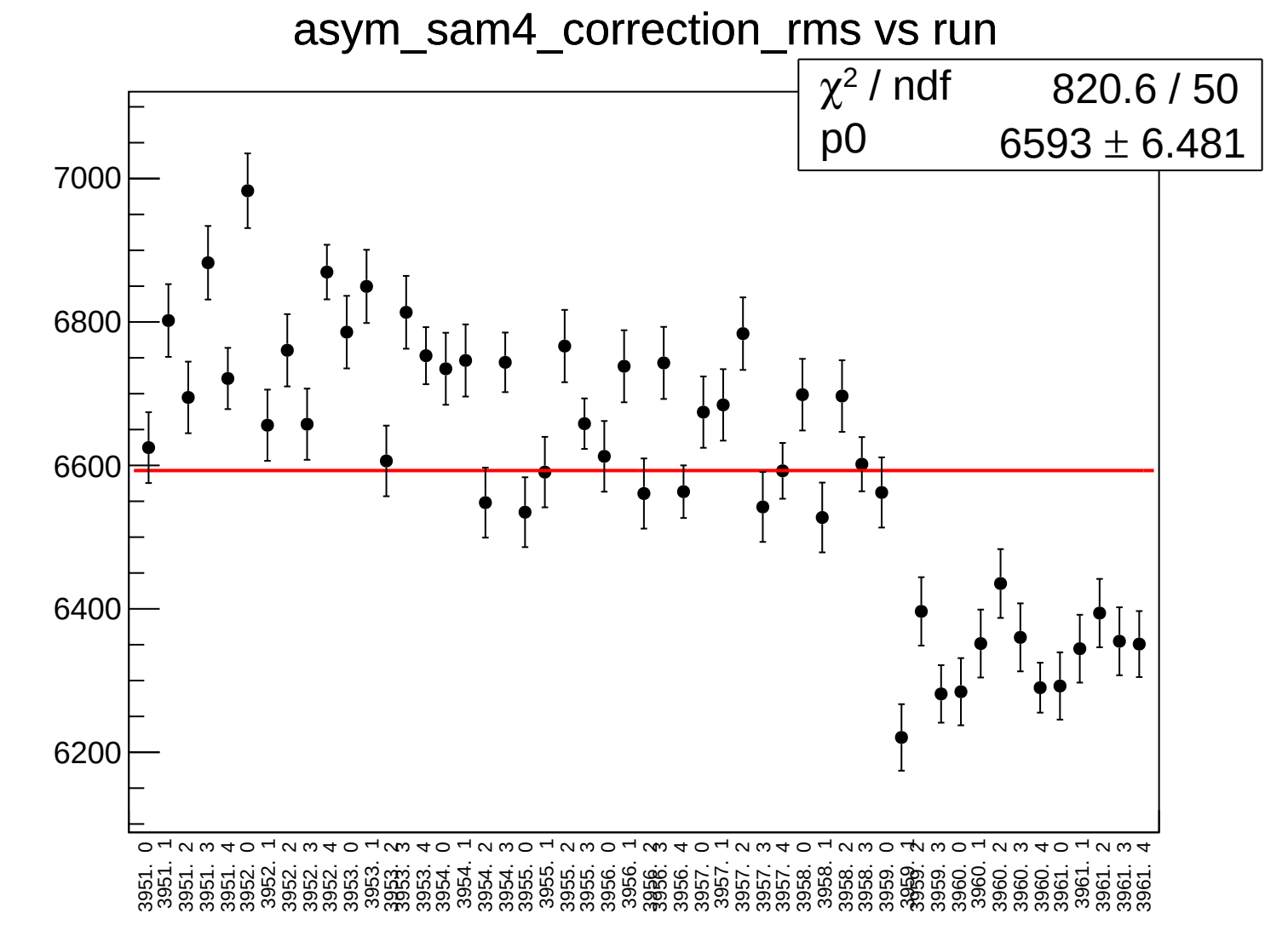

reg_asym_sam4_mean vs run
χ^2 / ndf 39.14 / 50
p0 −6797 ± 1856
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 51
Mean −278
Std Dev 301.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

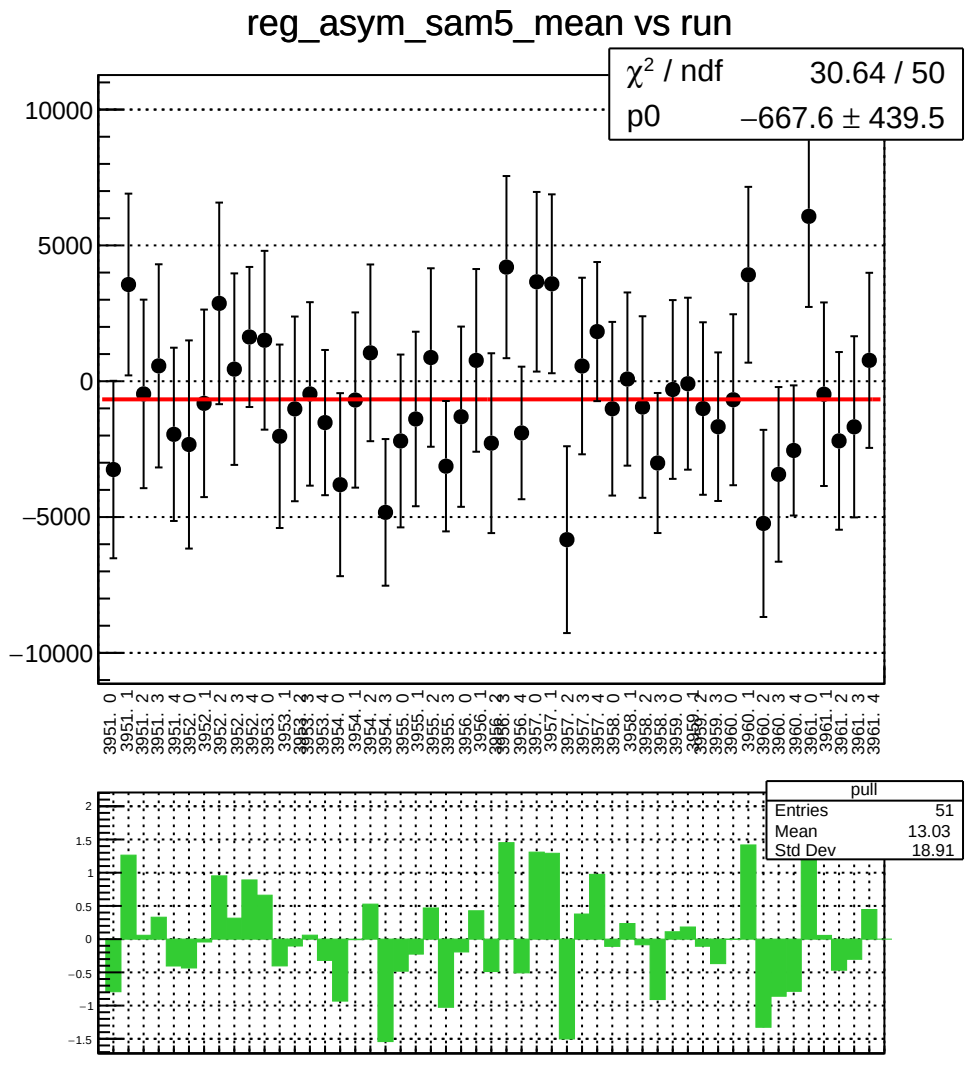

pull1D
Entries 51
Mean 0.009986
Std Dev 0.876
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

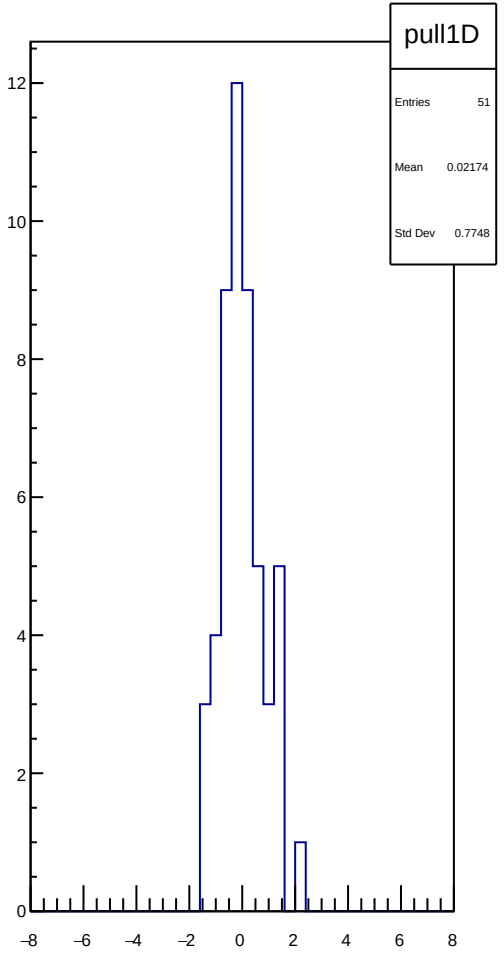

reg_asym_sam4_rms vs run
χ² / ndf 351.4 / 50
p0 1336 ± 1.313
1400
1380
1360
1340
1320
1300
1280
1260
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

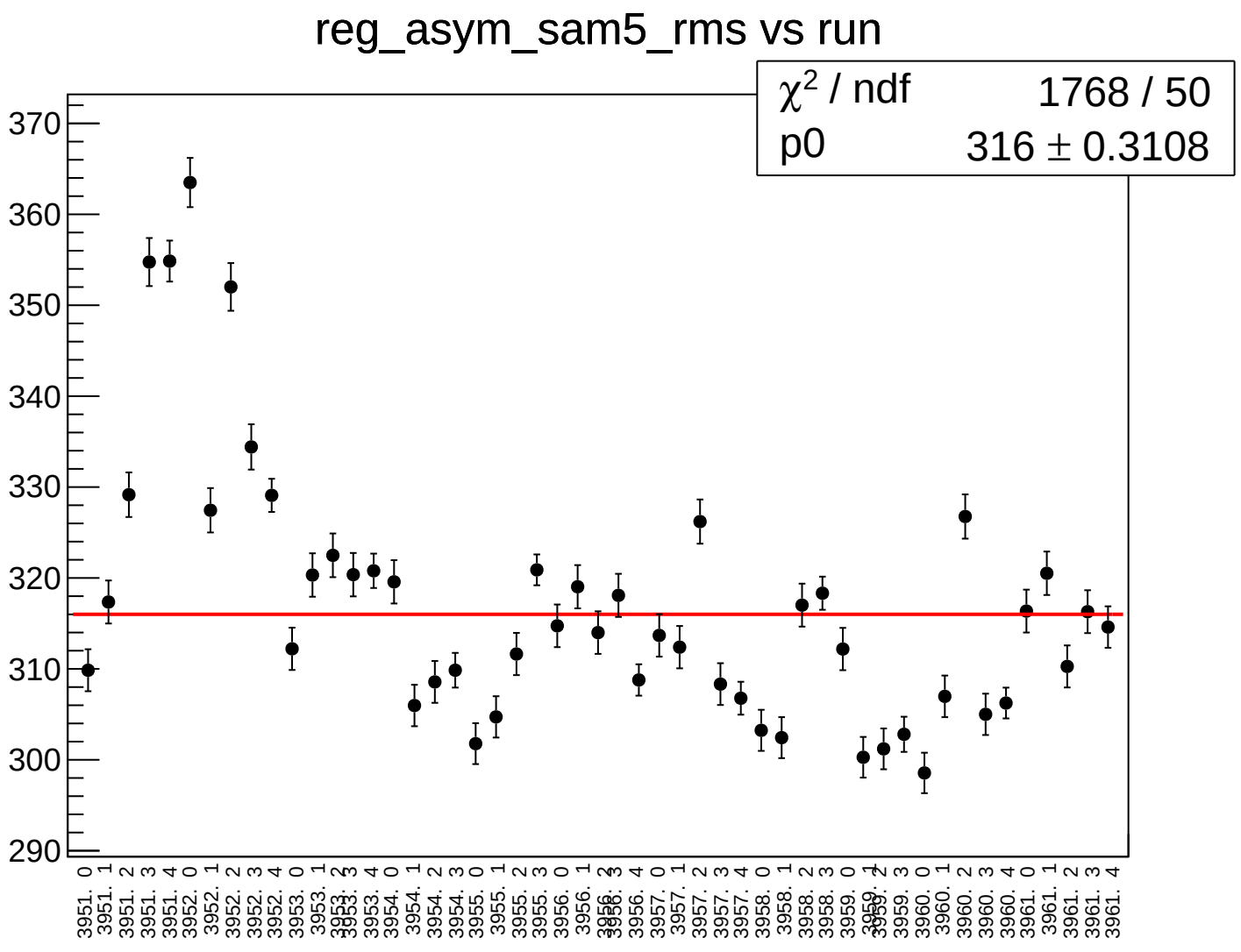

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 35.44 / 50
p0 −1.482e+04 ± 9165
pull
Entries 51
Mean −18.49
Std Dev 36.27

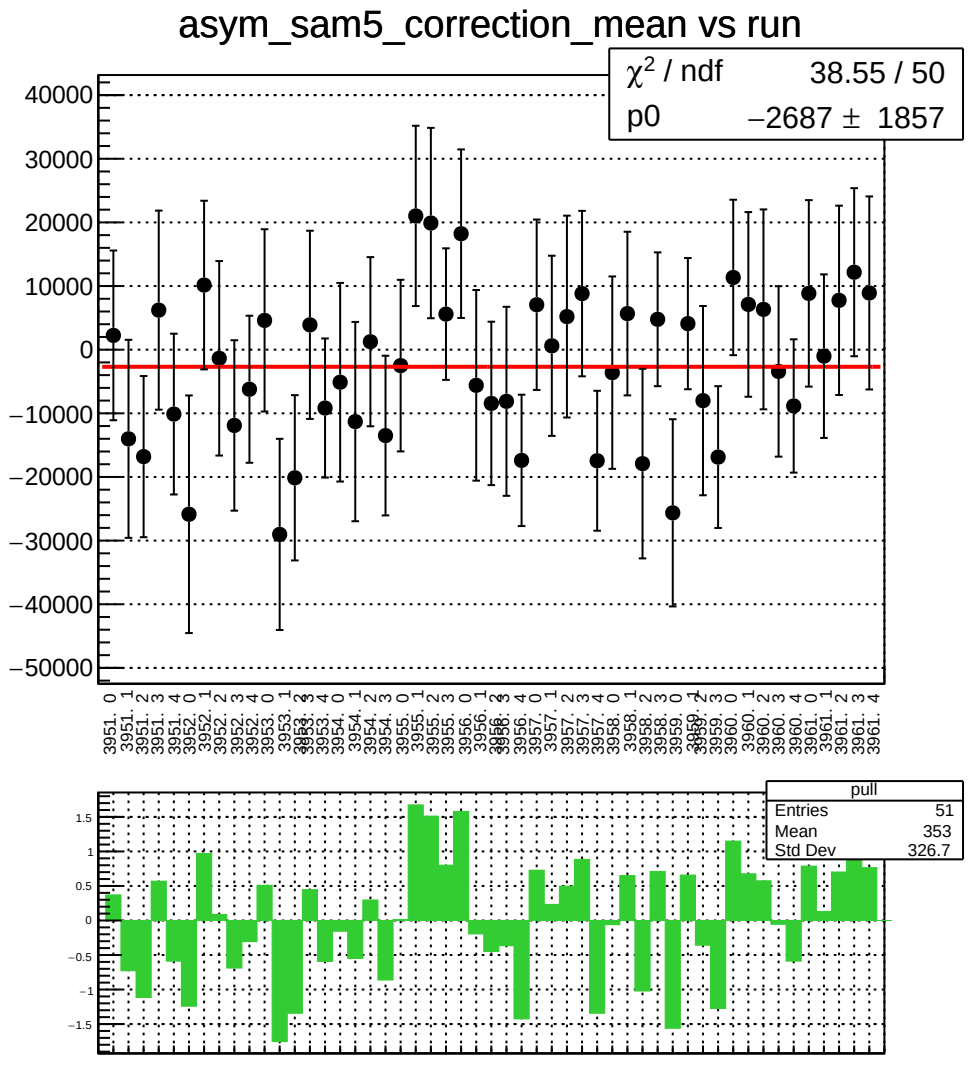

pull1D
Entries 51
Mean 0.03263
Std Dev 0.8329

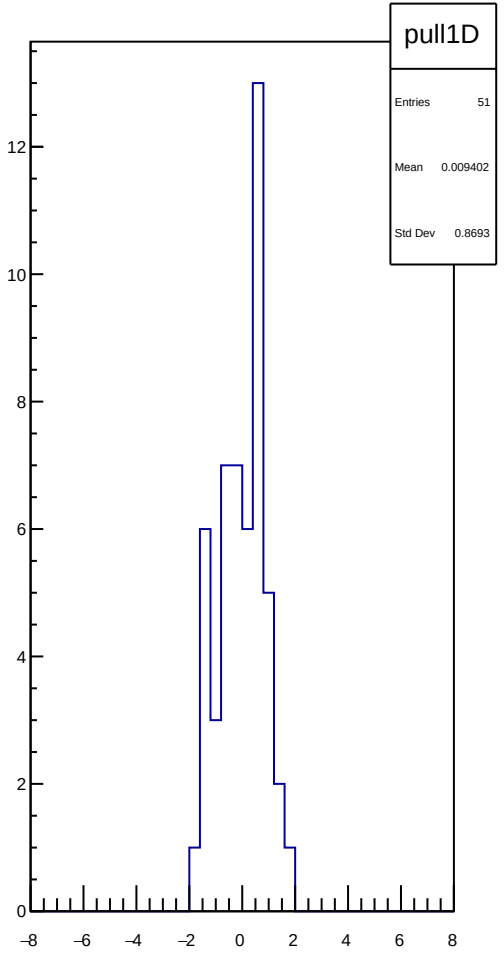

asym_sam4_correction_rms vs run
χ² / ndf 820.6 / 50
p0 6593 ± 6.481
7000
6800
6600
6400
6200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

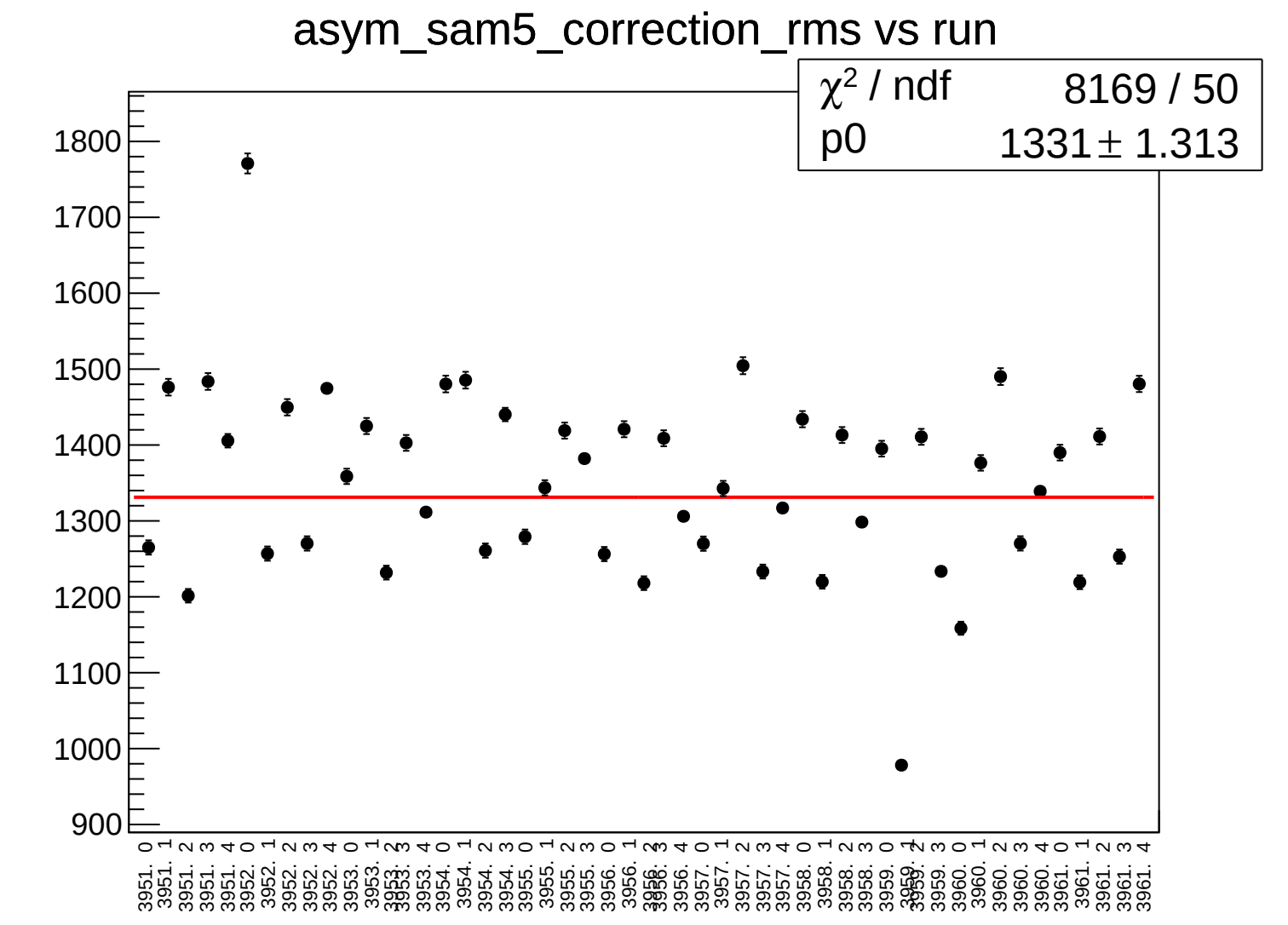

reg_asym_sam5_mean vs run
χ² / ndf 30.64 / 50
p0 −667.6 ± 439.5
10000
5000
0
−5000
−10000
pull
Entries 51
Mean 13.03
Std Dev 18.91
2
1.5
1
0.5
0
−0.5
−1
−1.5

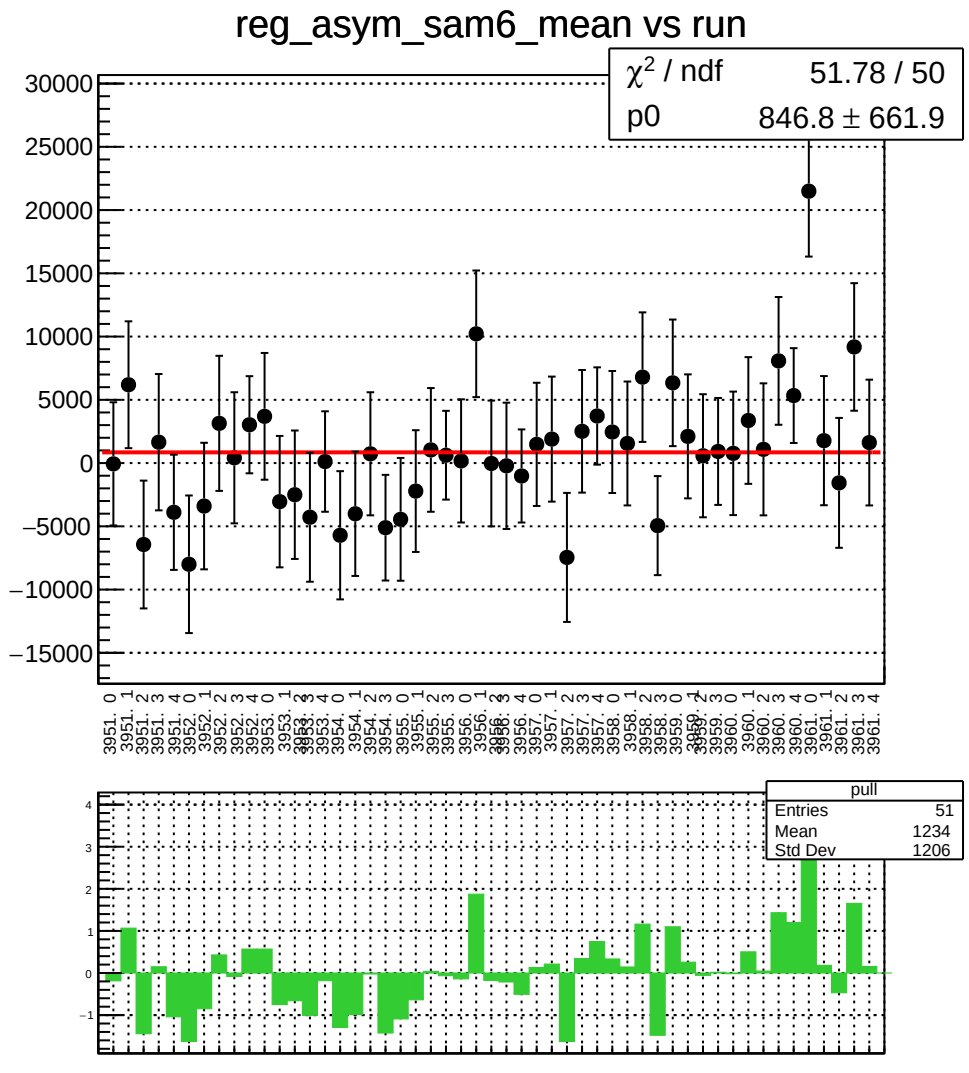

pull1D
Entries 51
Mean 0.02174
Std Dev 0.7748
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

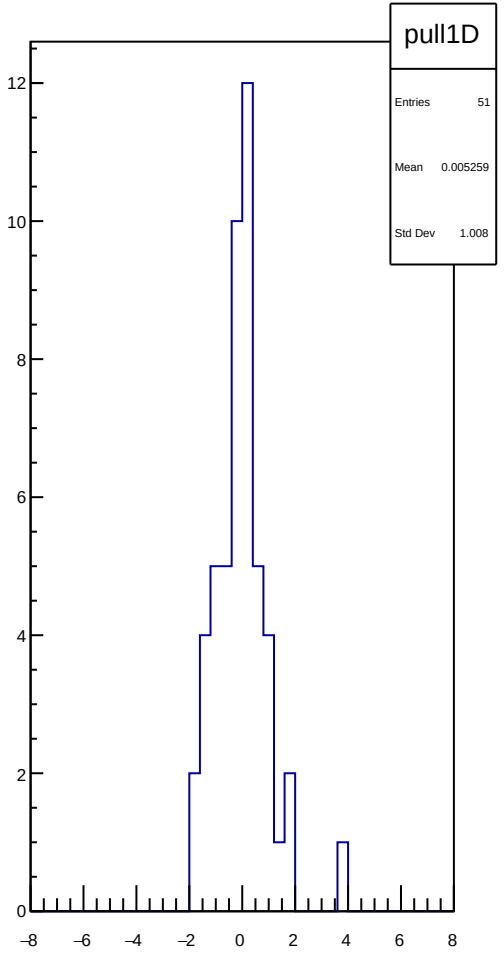

reg_asym_sam5_rms vs run
χ² / ndf 1768 / 50
p0 316 ± 0.3108
370
360
350
340
330
320
310
300
290
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

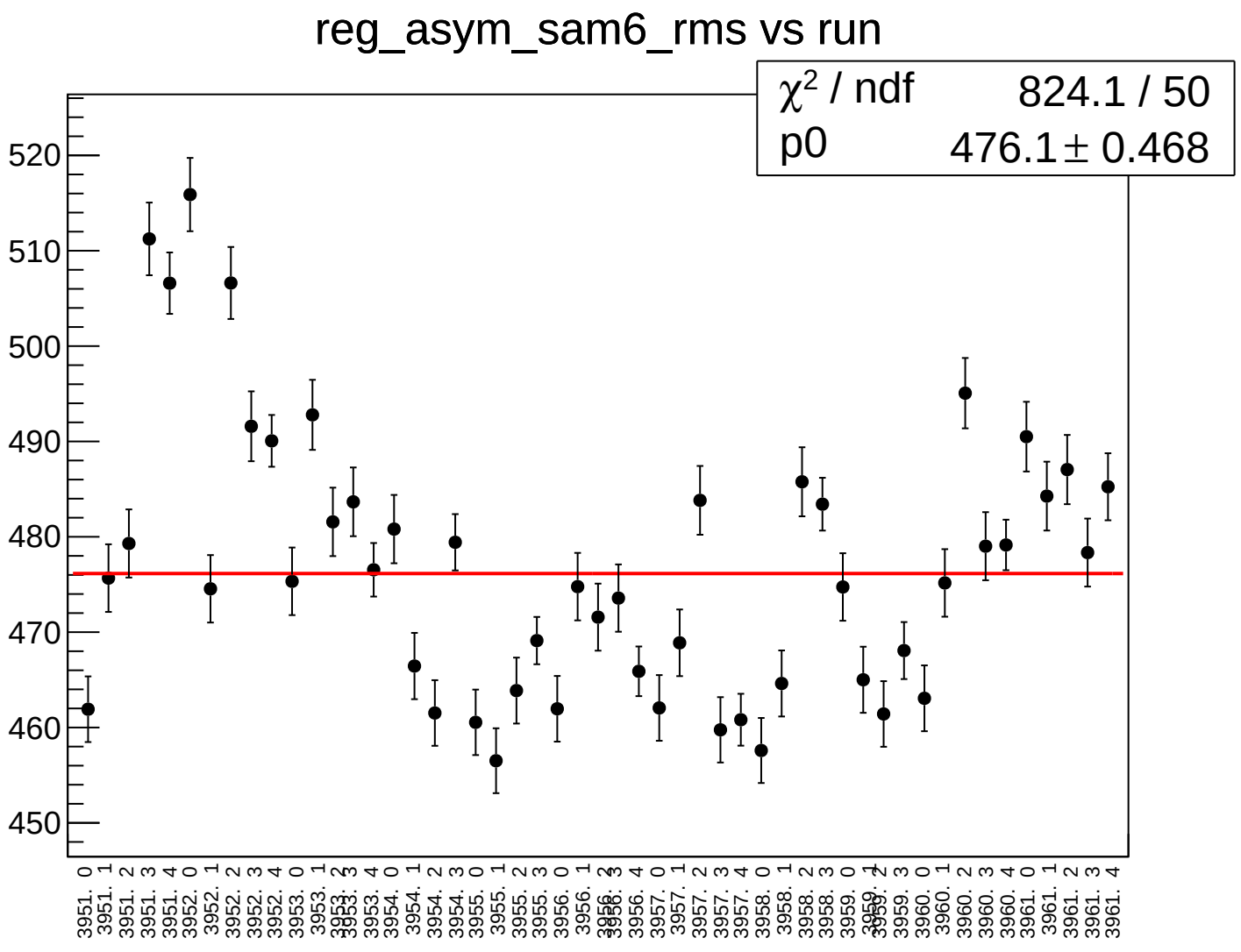

asym_sam5_correction_mean vs run
χ² / ndf 38.55 / 50
p0 −2687 ± 1857
pull
Entries 51
Mean 353
Std Dev 326.7

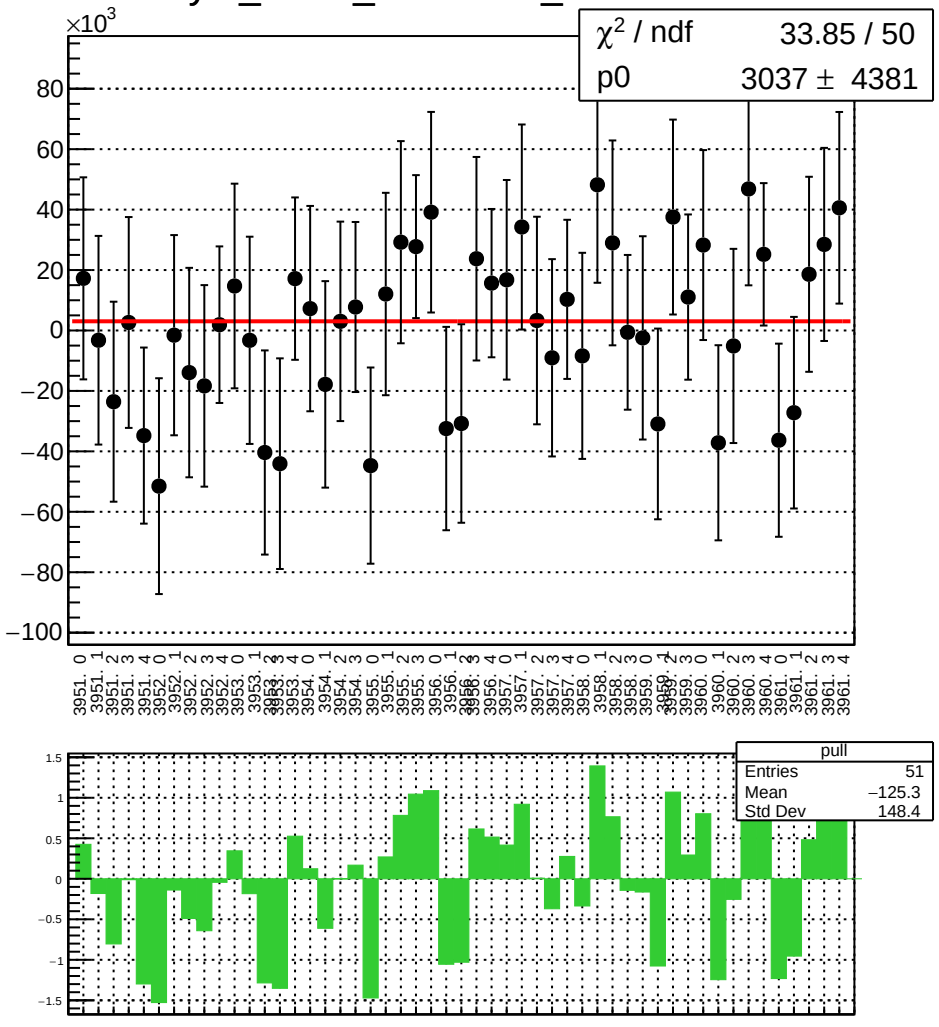

pull1D
Entries 51
Mean 0.009402
Std Dev 0.8693

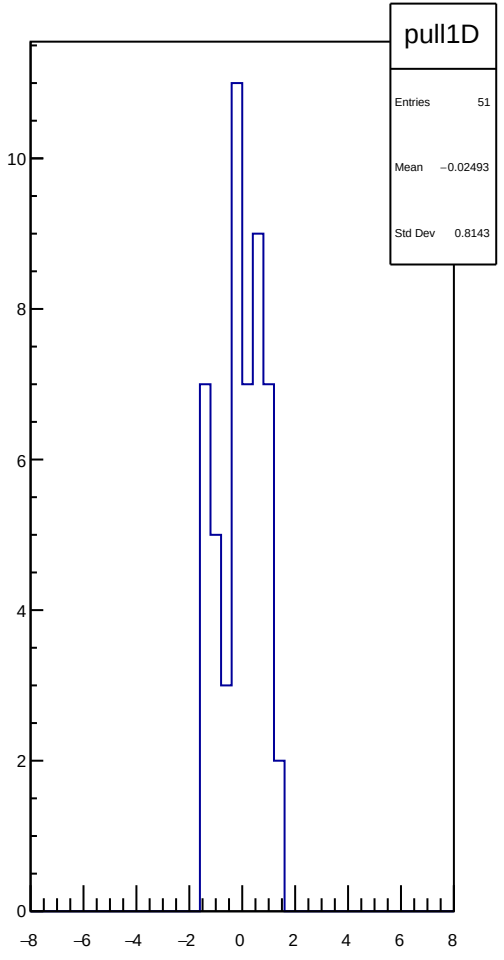

asym_sam5_correction_rms vs run
χ² / ndf 8169 / 50
p0 1331 ± 1.313
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

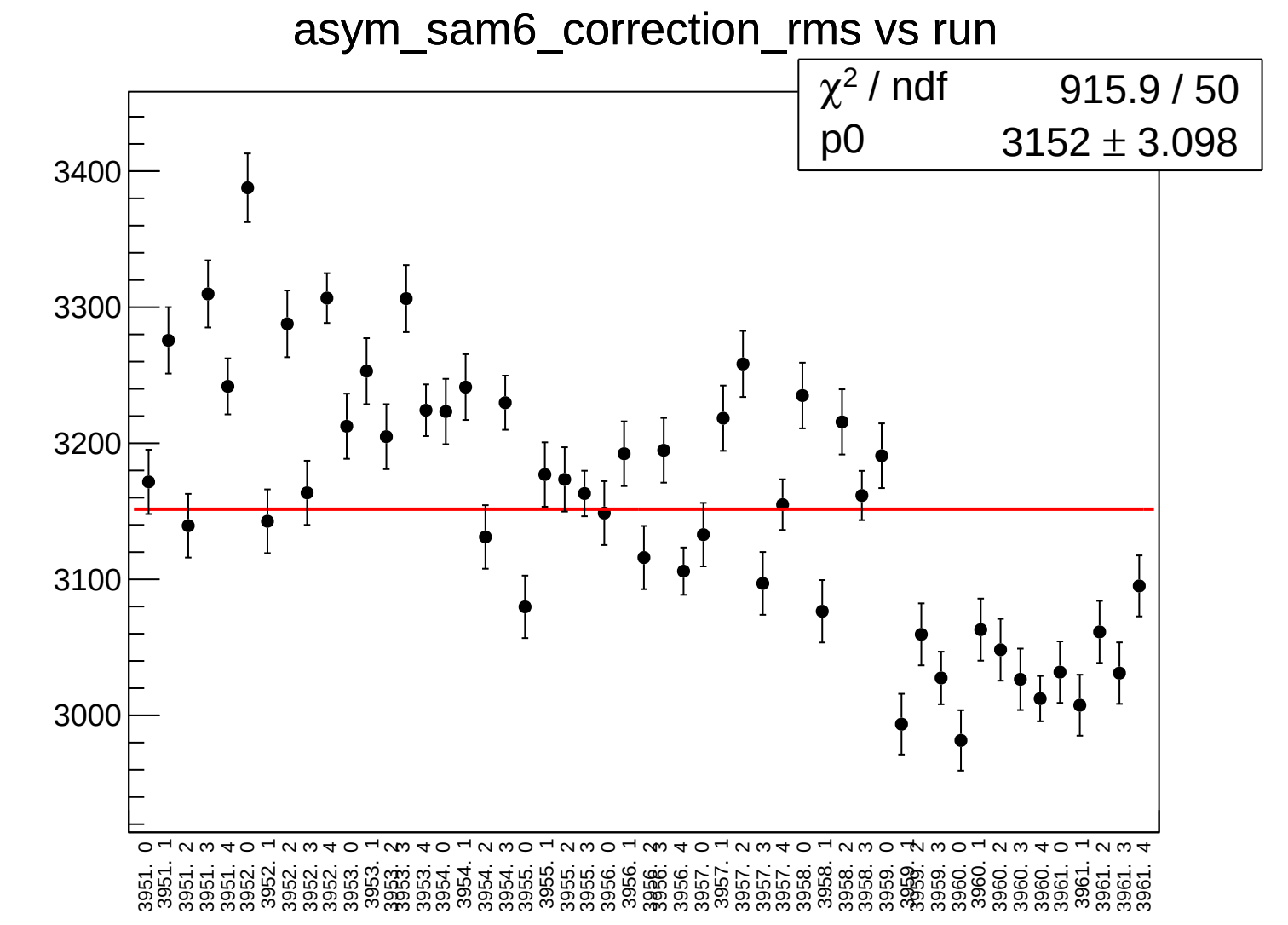

reg_asym_sam6_mean vs run
χ² / ndf 51.78 / 50
p0 846.8 ± 661.9
pull
Entries 51
Mean 1234
Std Dev 1206

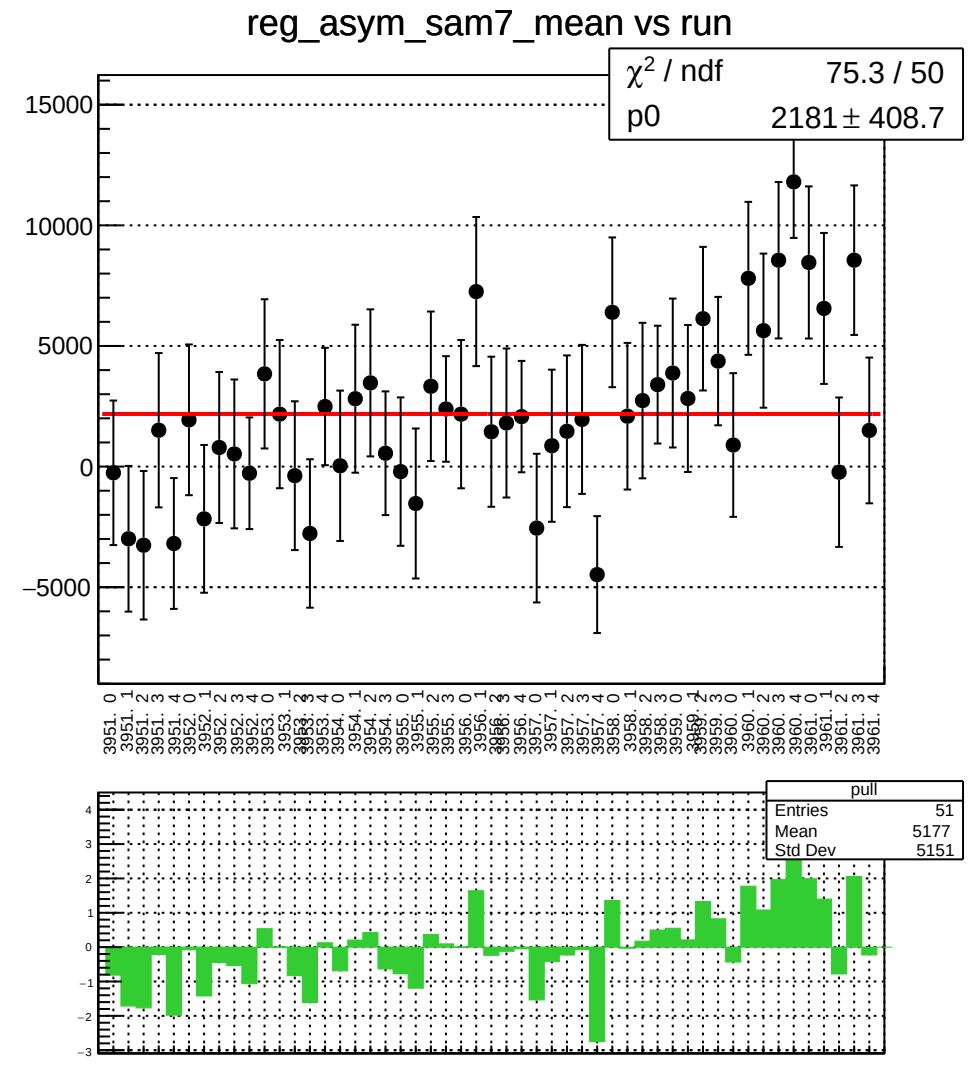

pull1D
Entries 51
Mean 0.005259
Std Dev 1.008

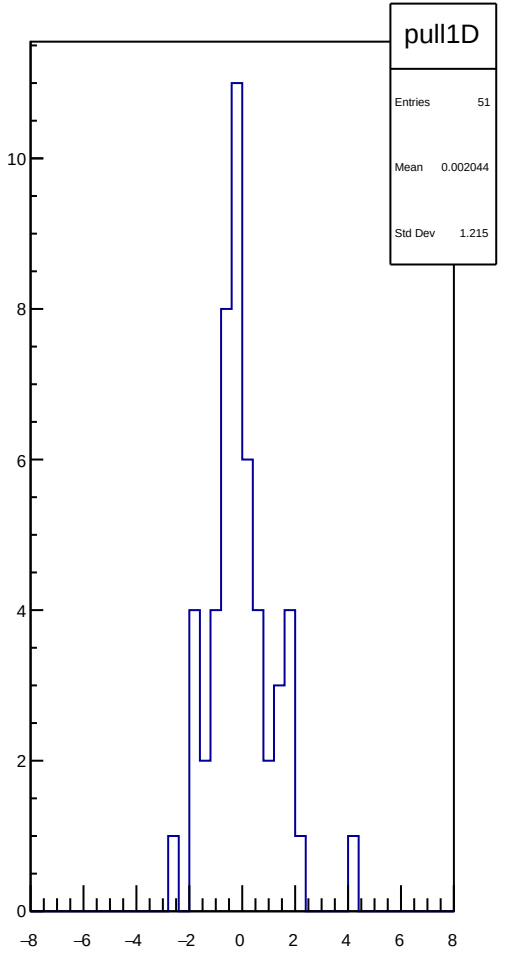

reg_asym_sam6_rms vs run
χ² / ndf 824.1 / 50
p0 476.1 ± 0.468
520
510
500
490
480
470
460
450
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

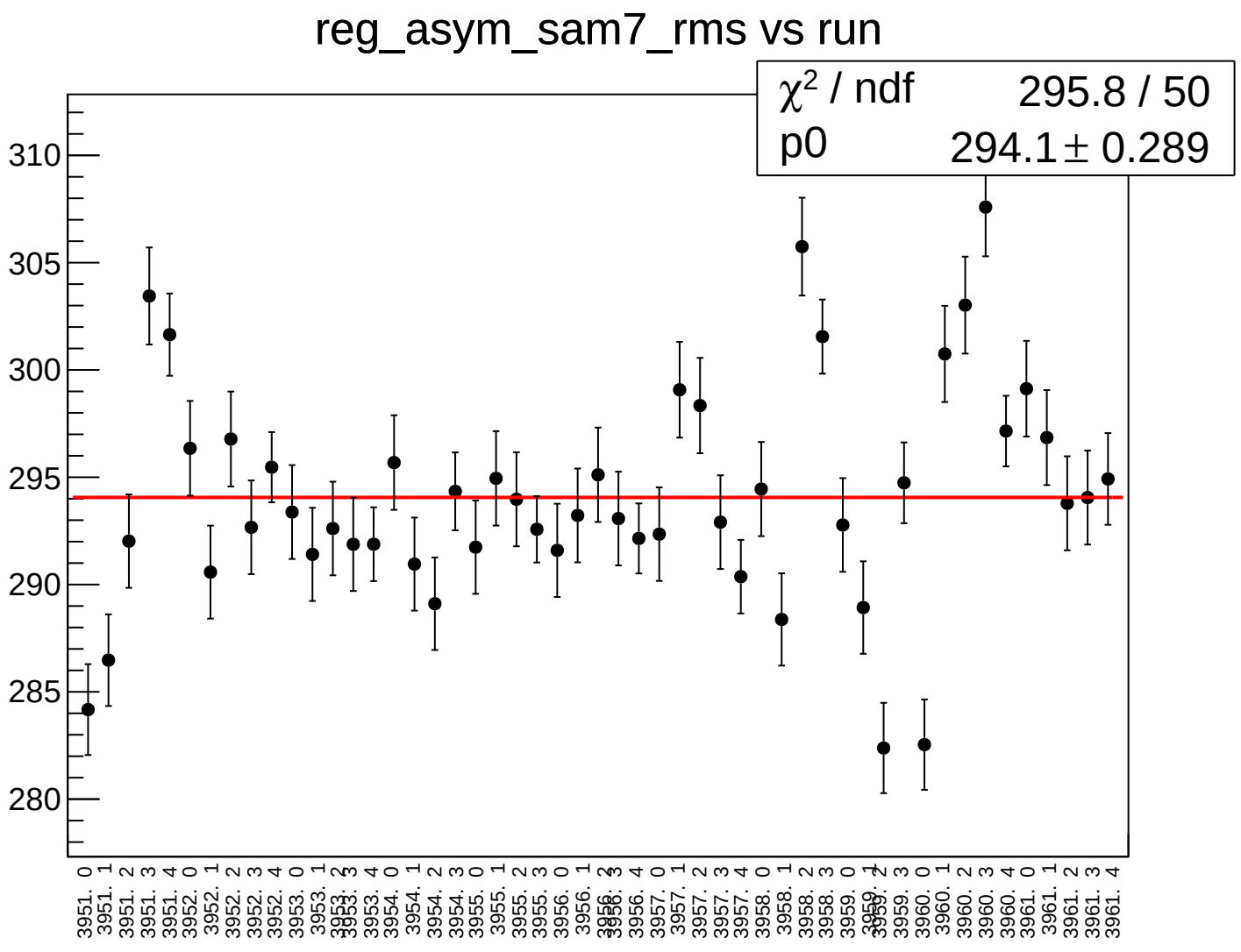

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 33.85 / 50
p0 3037 ± 4381
pull
Entries 51
Mean −125.3
Std Dev 148.4

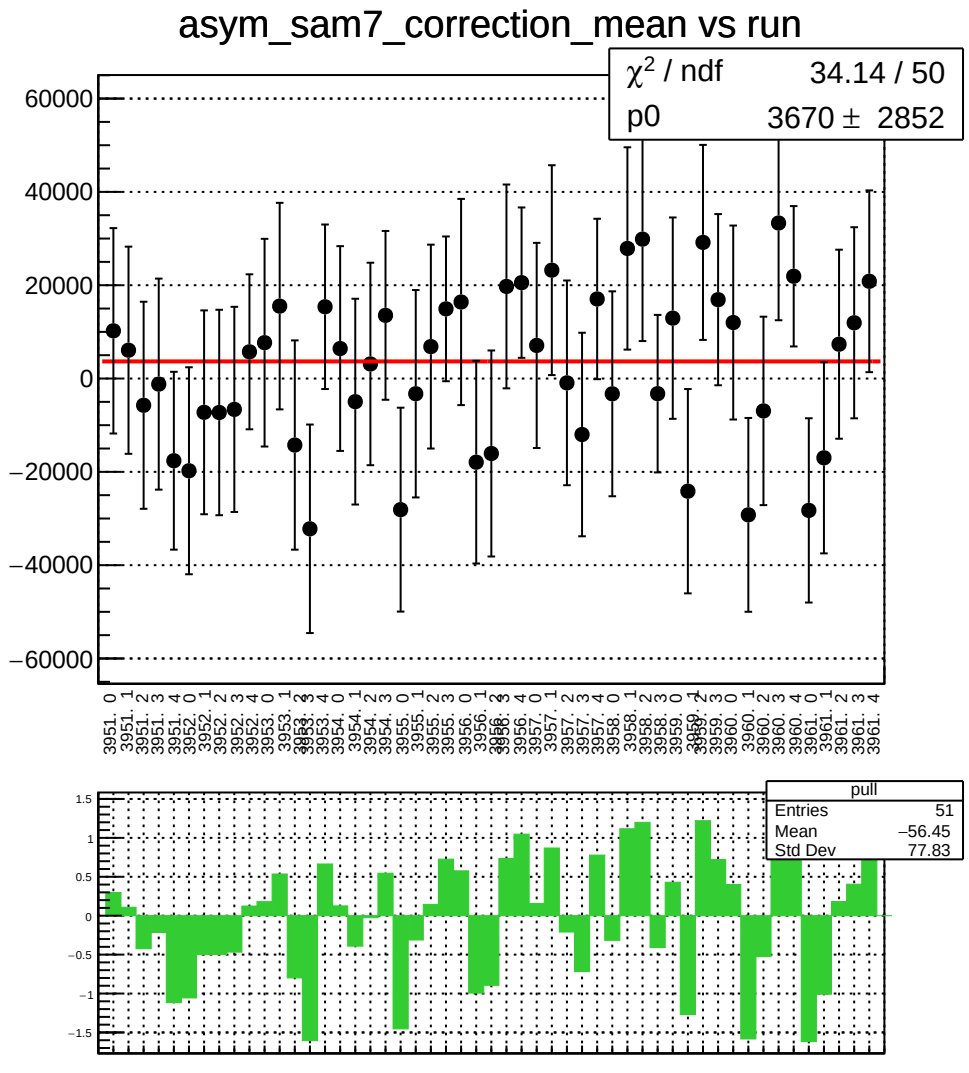

pull1D
Entries 51
Mean −0.02493
Std Dev 0.8143

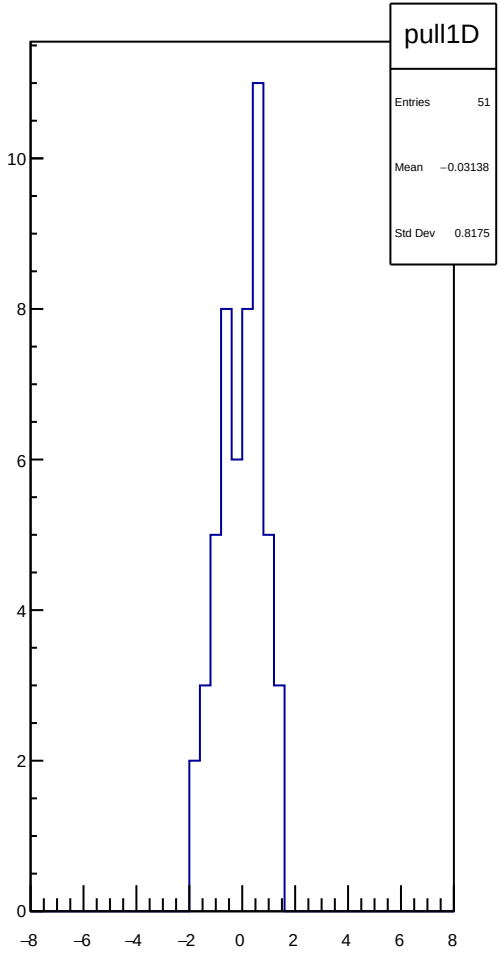

asym_sam6_correction_rms vs run
χ² / ndf 915.9 / 50
p0 3152 ± 3.098
3400
3300
3200
3100
3000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

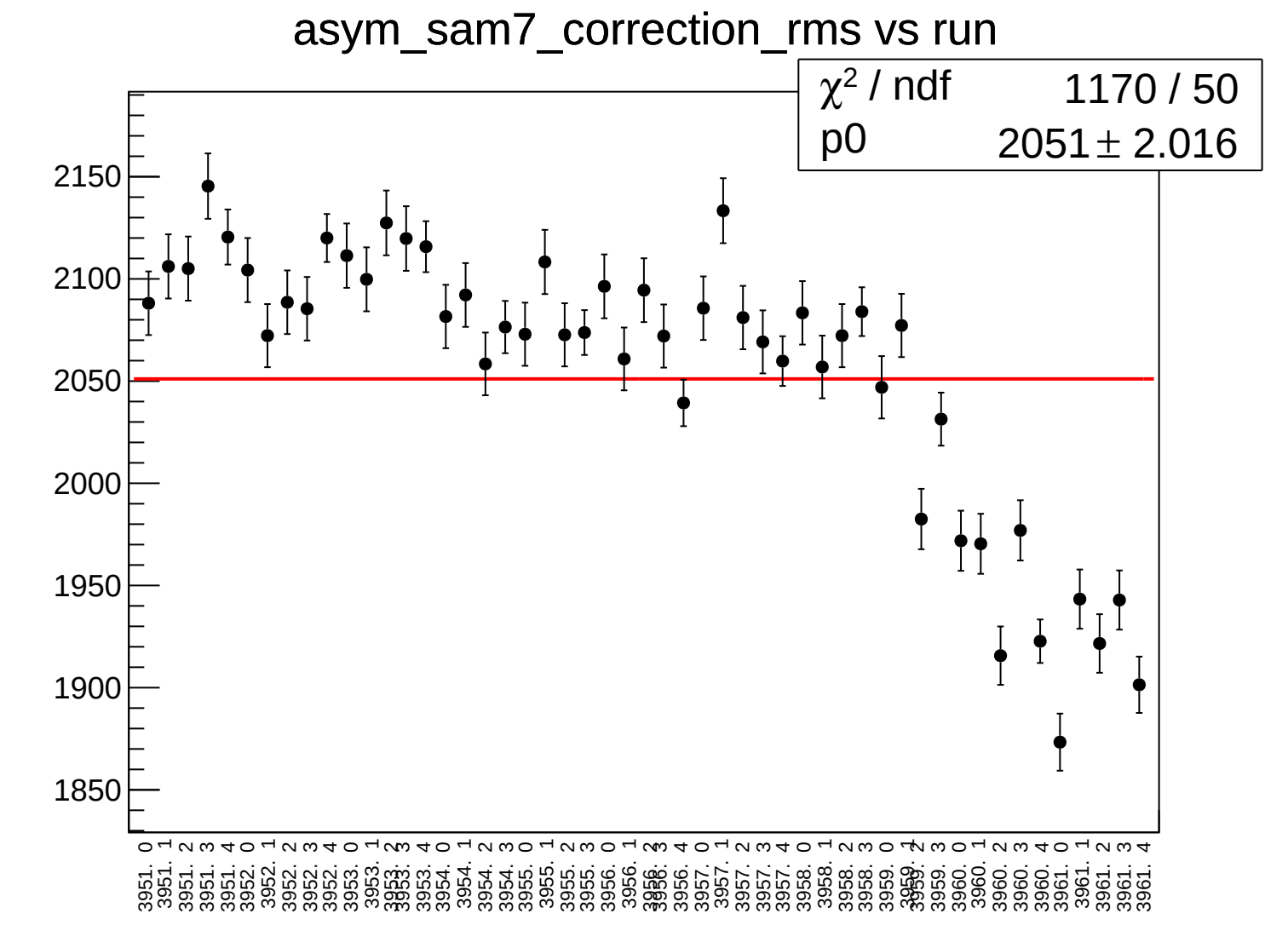

reg_asym_sam7_mean vs run
χ² / ndf 75.3 / 50
p0 2181 ± 408.7
15000
10000
5000
0
−5000
pull
Entries 51
Mean 5177
Std Dev 5151
4
3
2
1
0
−1
−2
−3

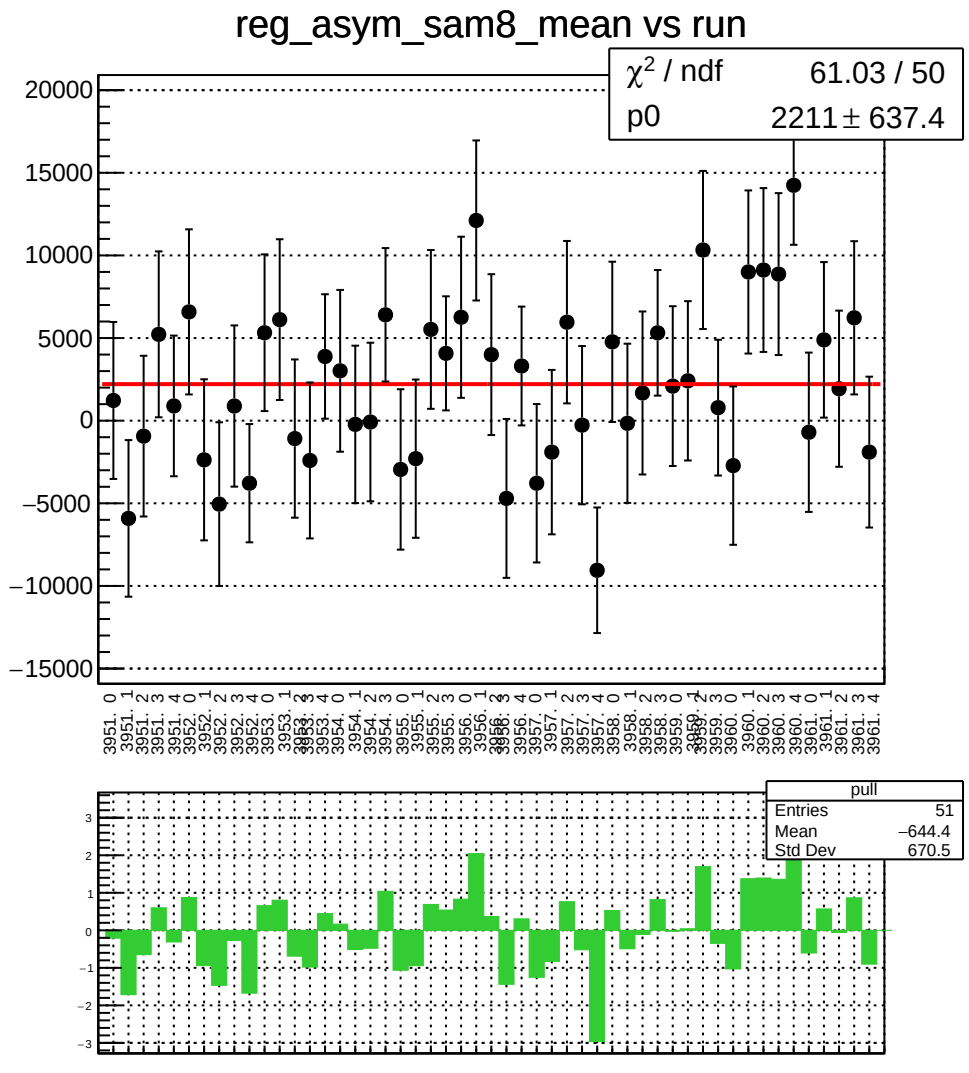

pull1D
Entries 51
Mean 0.002044
Std Dev 1.215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

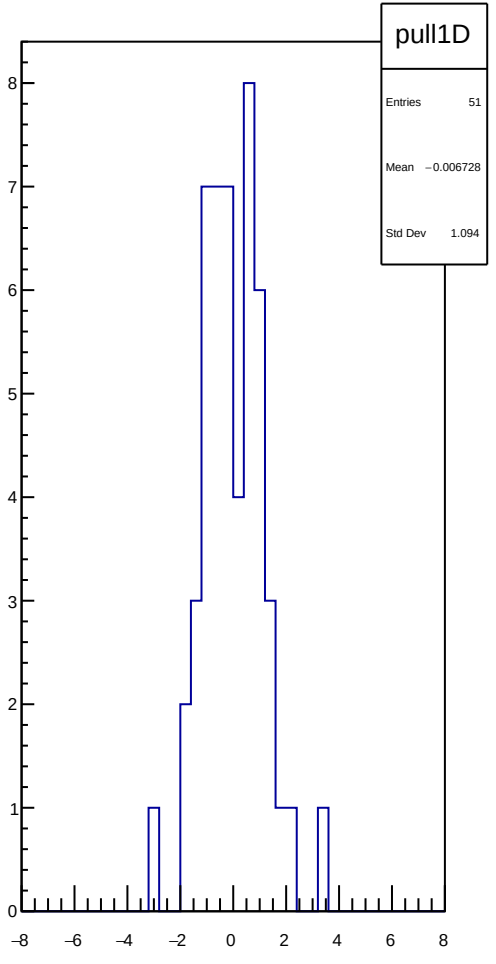

reg_asym_sam7_rms vs run
χ² / ndf 295.8 / 50
p0 294.1 ± 0.289
310
305
300
295
290
285
280
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

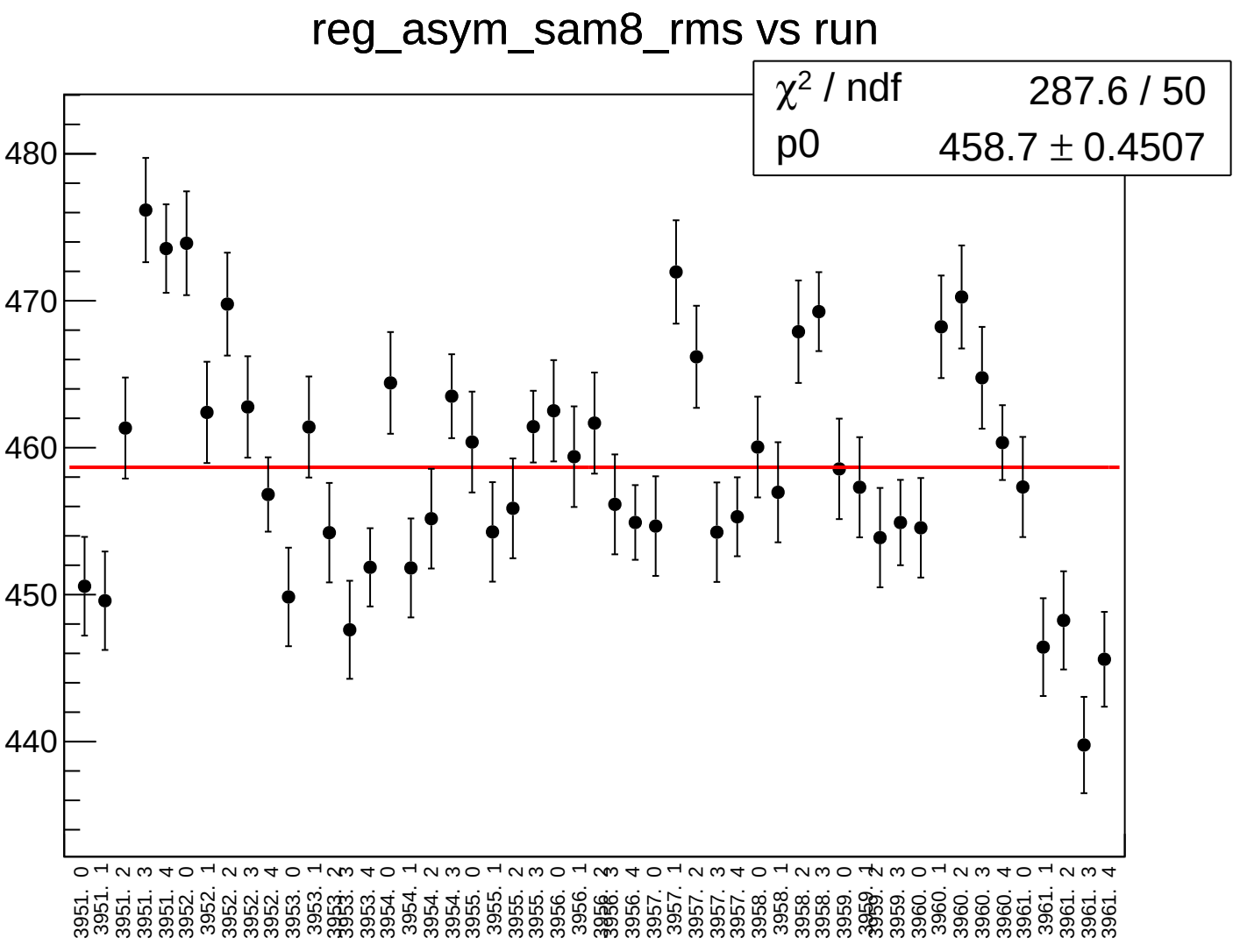

asym_sam7_correction_mean vs run
χ² / ndf 34.14 / 50
p0 3670 ± 2852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −56.45
Std Dev 77.83
1.5
1
0.5
0
−0.5
−1
−1.5

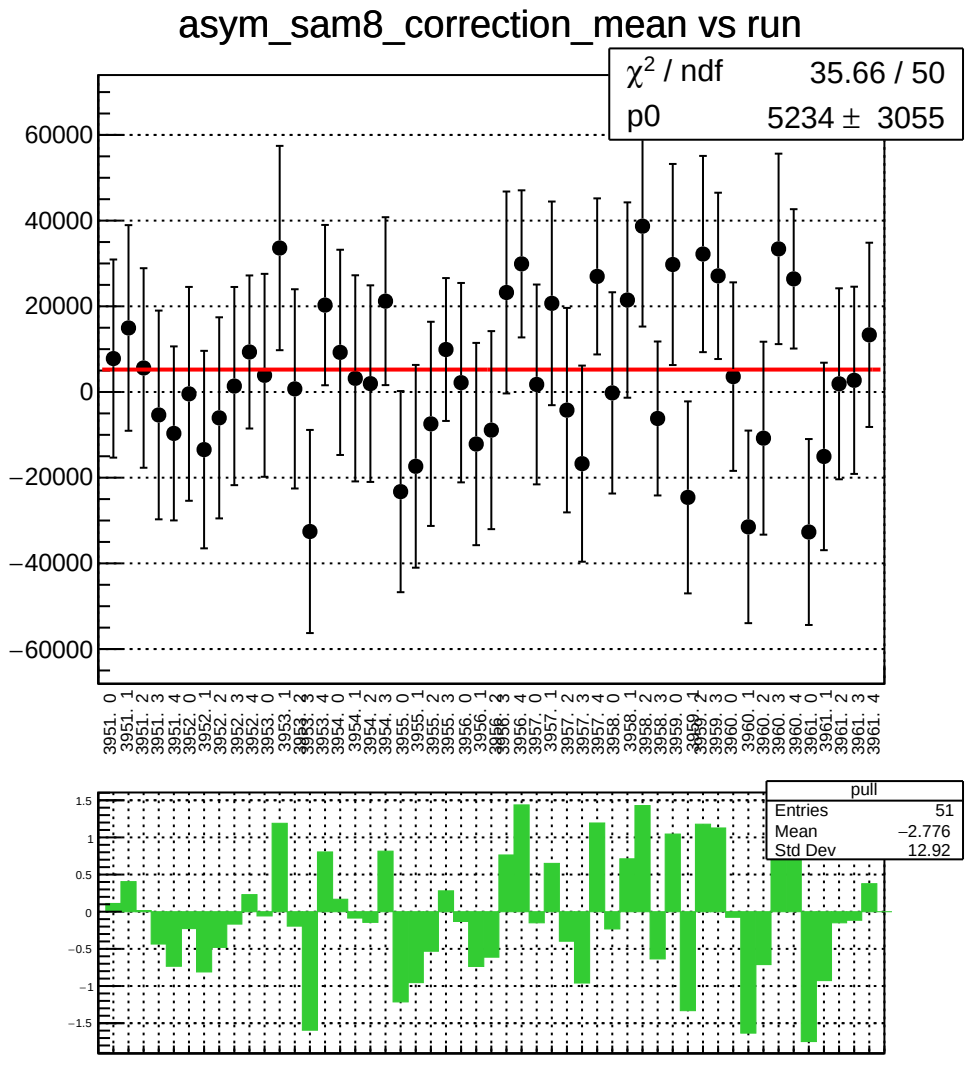

pull1D
Entries 51
Mean −0.03138
Std Dev 0.8175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

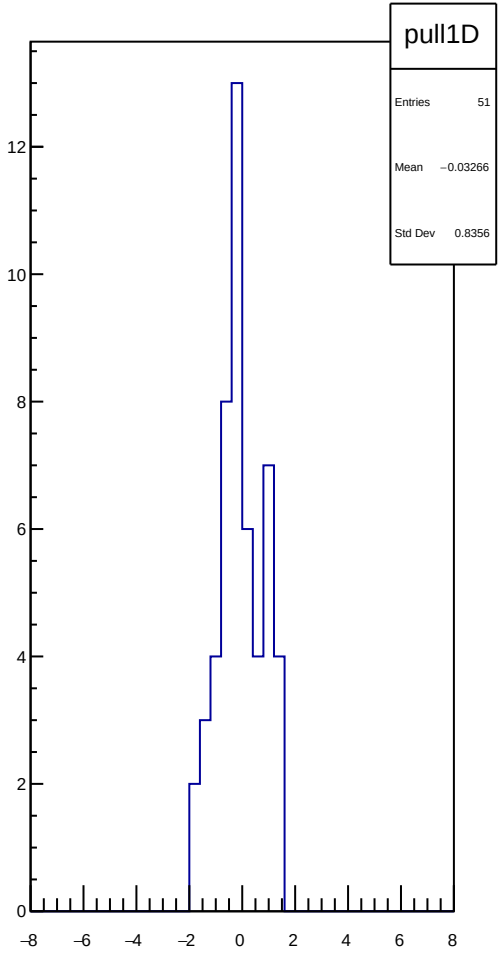

asym_sam7_correction_rms vs run
χ² / ndf 1170 / 50
p0 2051 ± 2.016
2150
2100
2050
2000
1950
1900
1850
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

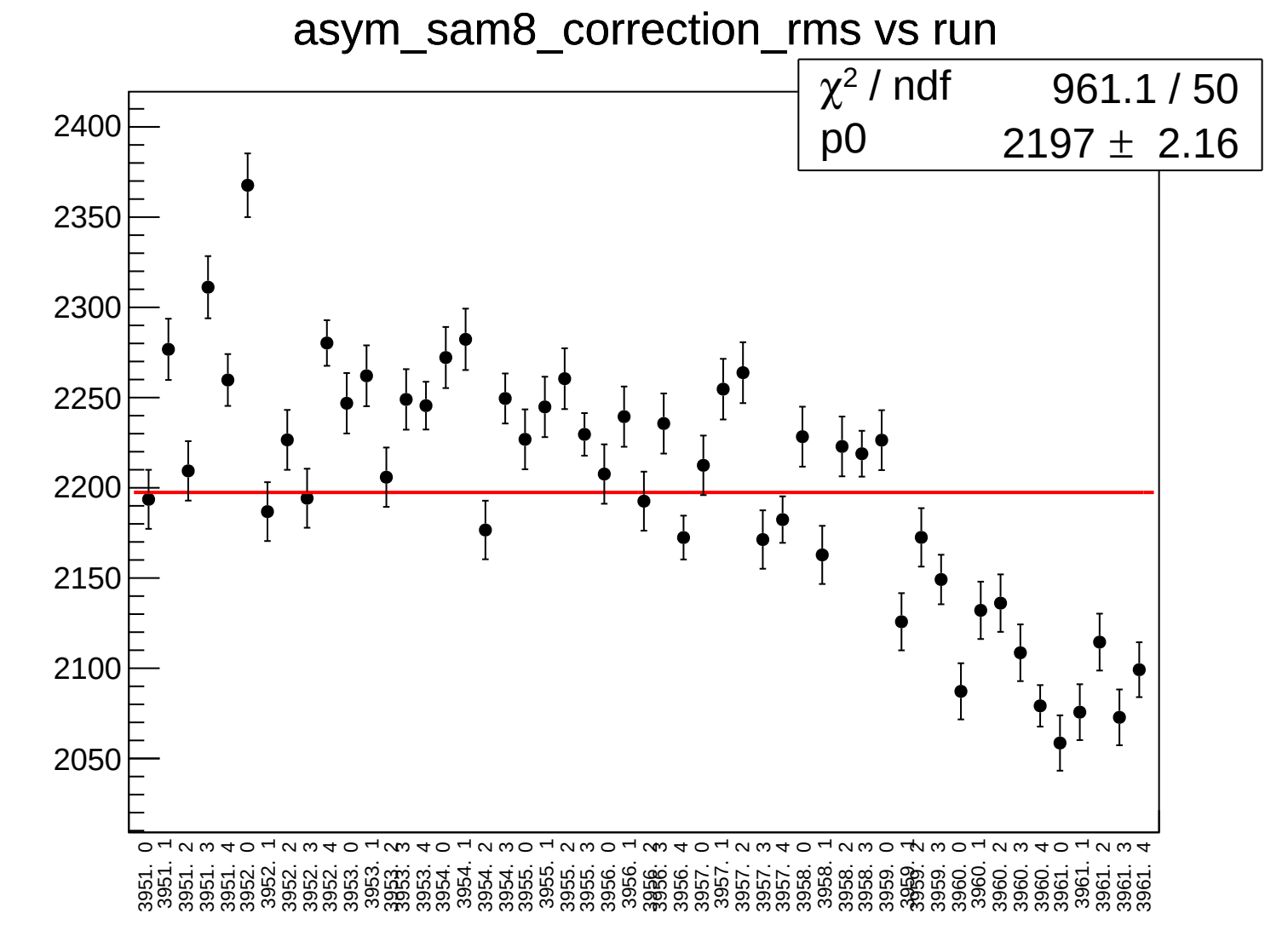

reg_asym_sam8_mean vs run
χ² / ndf 61.03 / 50
p0 2211 ± 637.4
pull
Entries 51
Mean −644.4
Std Dev 670.5

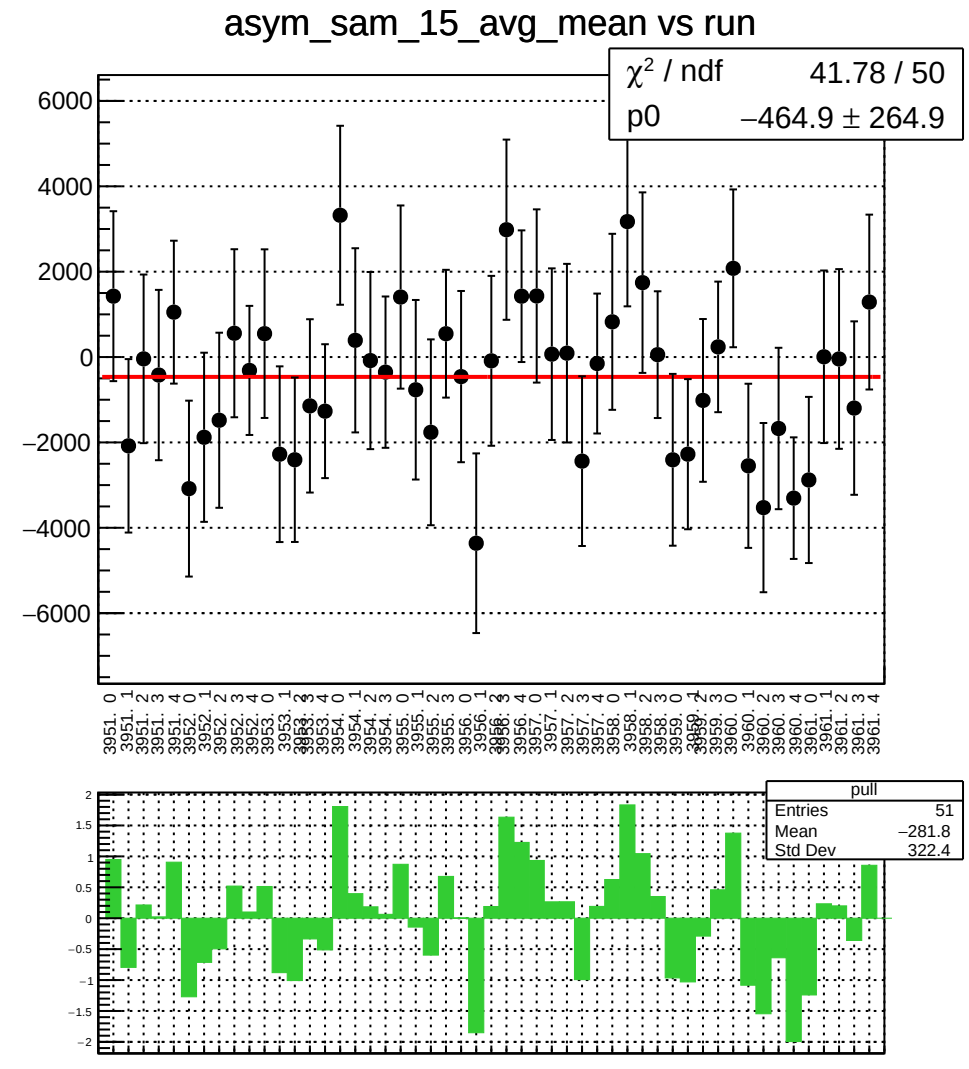

pull1D
Entries 51
Mean −0.006728
Std Dev 1.094

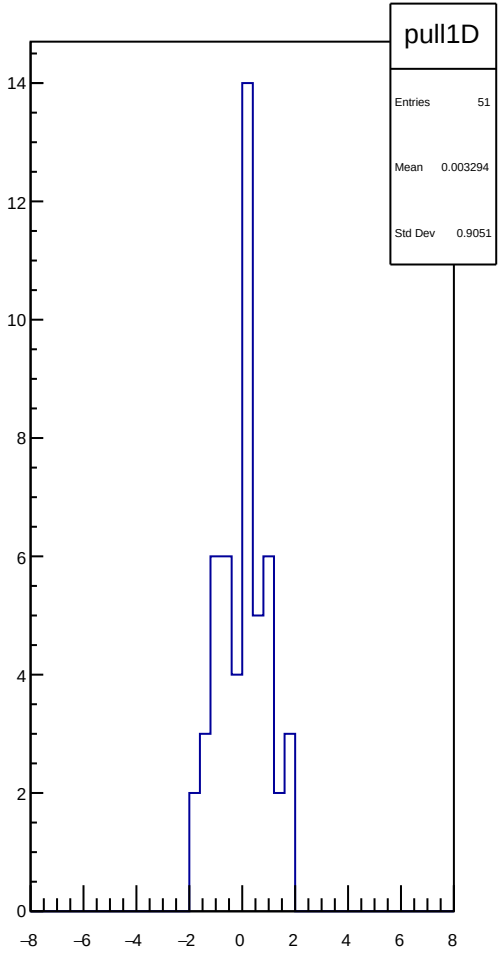

reg_asym_sam8_rms vs run
χ² / ndf 287.6 / 50
p0 458.7 ± 0.4507
480
470
460
450
440
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

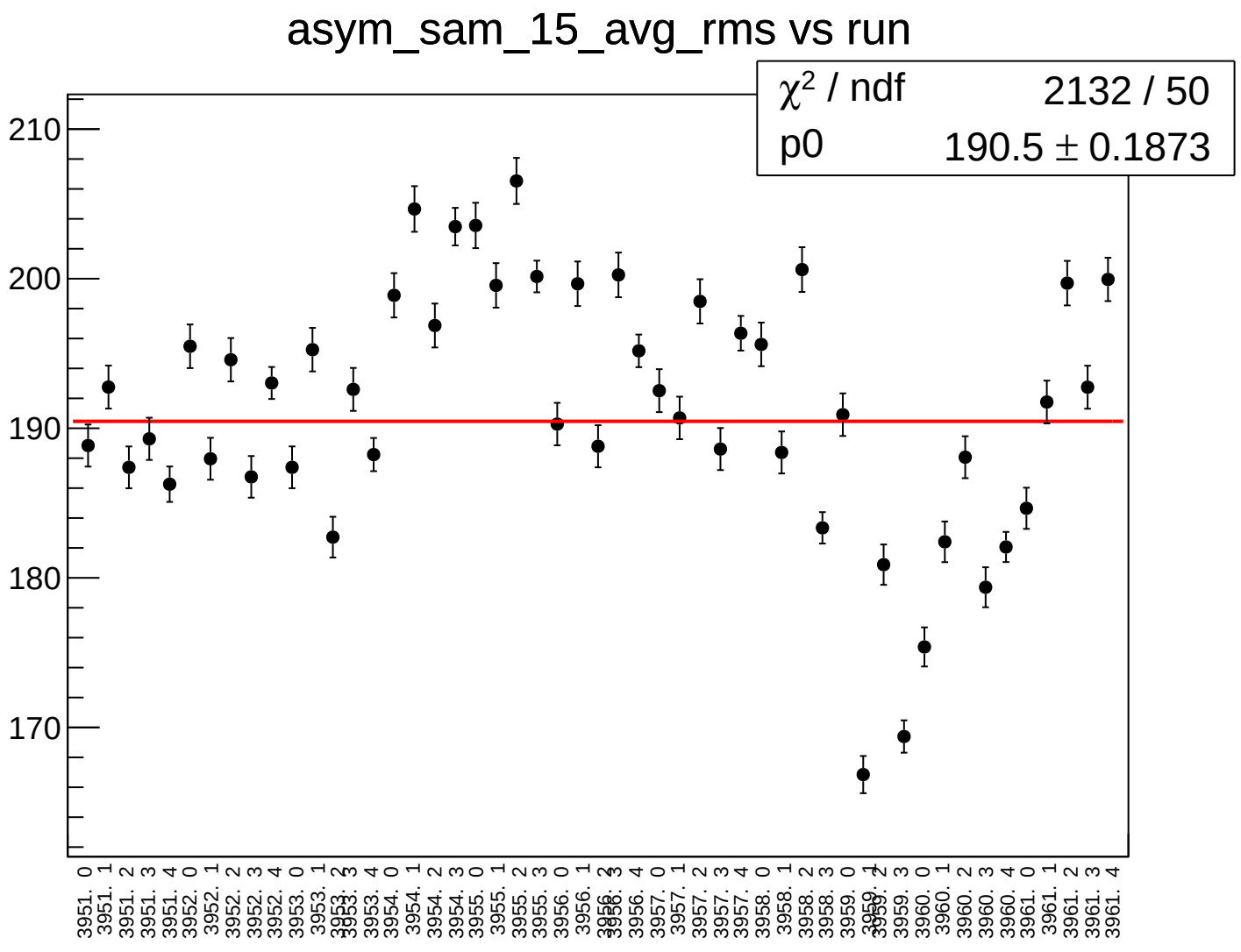

asym_sam8_correction_mean vs run
χ² / ndf 35.66 / 50
p0 5234 ± 3055
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −2.776
Std Dev 12.92
1.5
1
0.5
0
−0.5
−1
−1.5

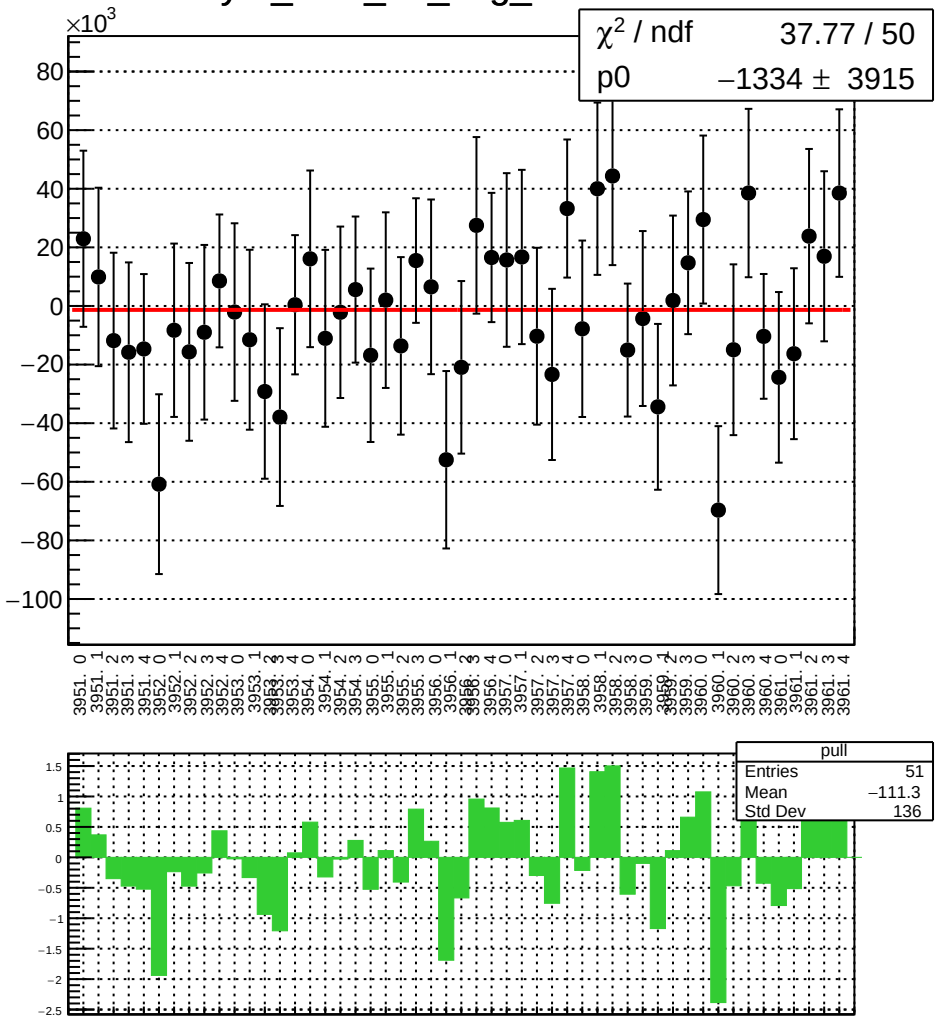

pull1D
Entries 51
Mean −0.03266
Std Dev 0.8356
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

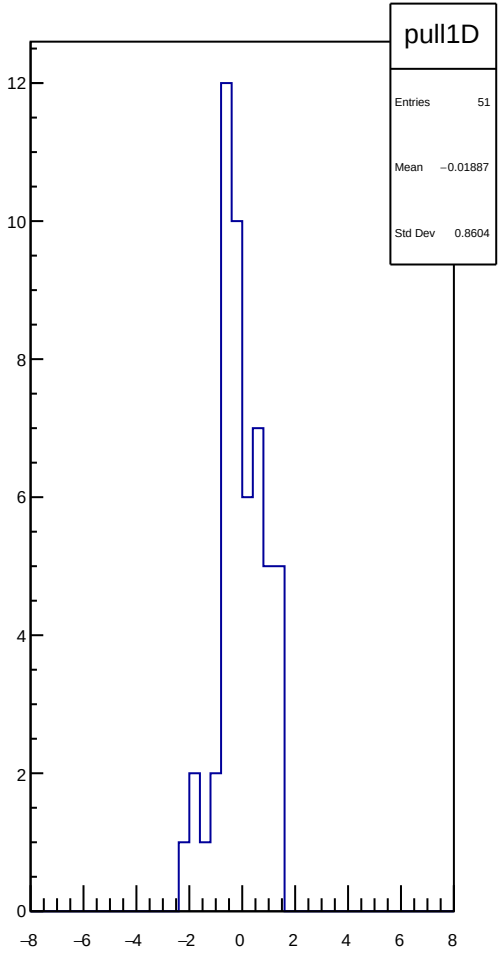

asym_sam8_correction_rms vs run
χ² / ndf 961.1 / 50
p0 2197 ± 2.16
2400
2350
2300
2250
2200
2150
2100
2050
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

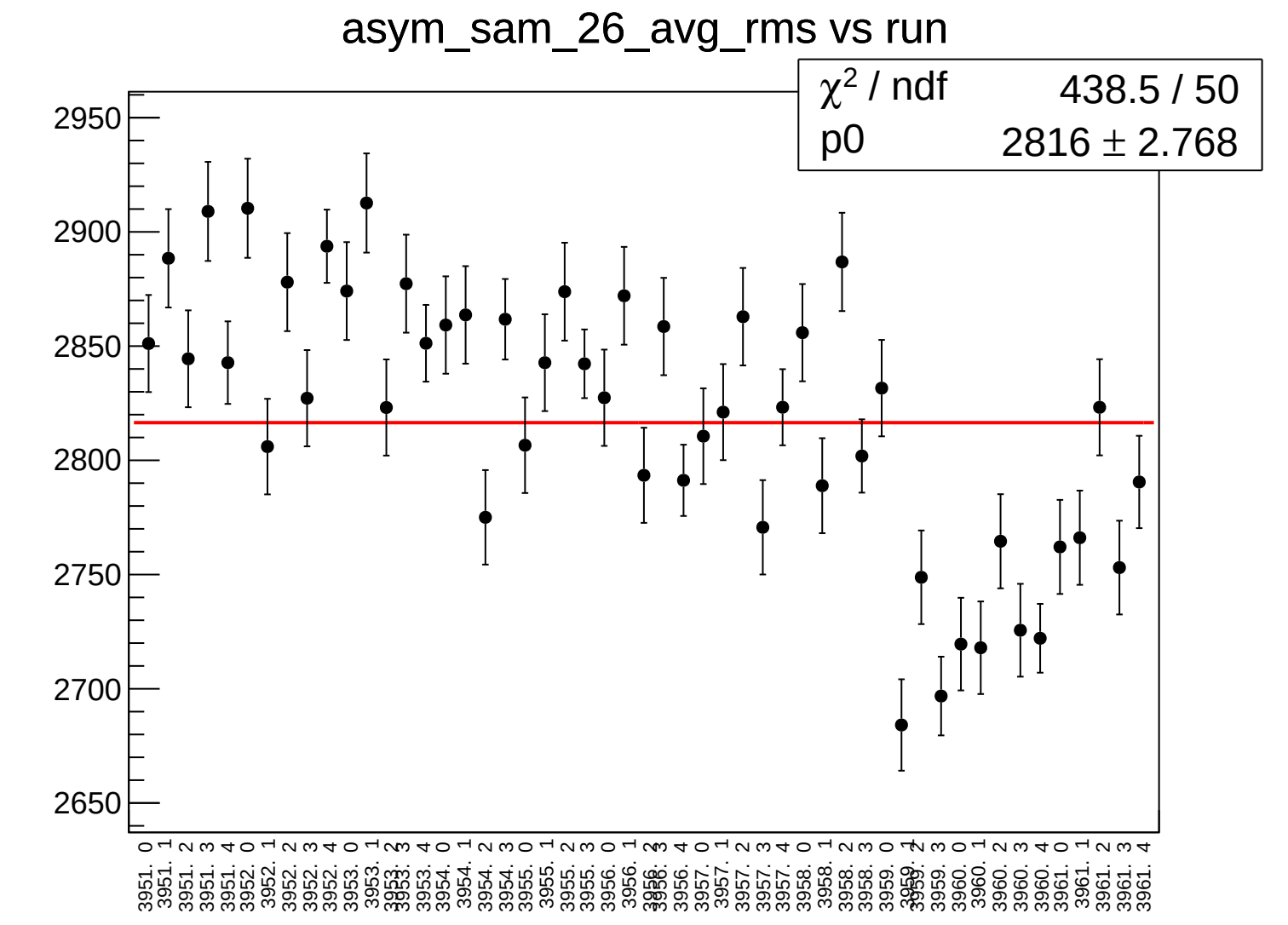

asym_sam_15_avg_mean vs run
χ² / ndf 41.78 / 50
p0 −464.9 ± 264.9
pull
Entries 51
Mean −281.8
Std Dev 322.4

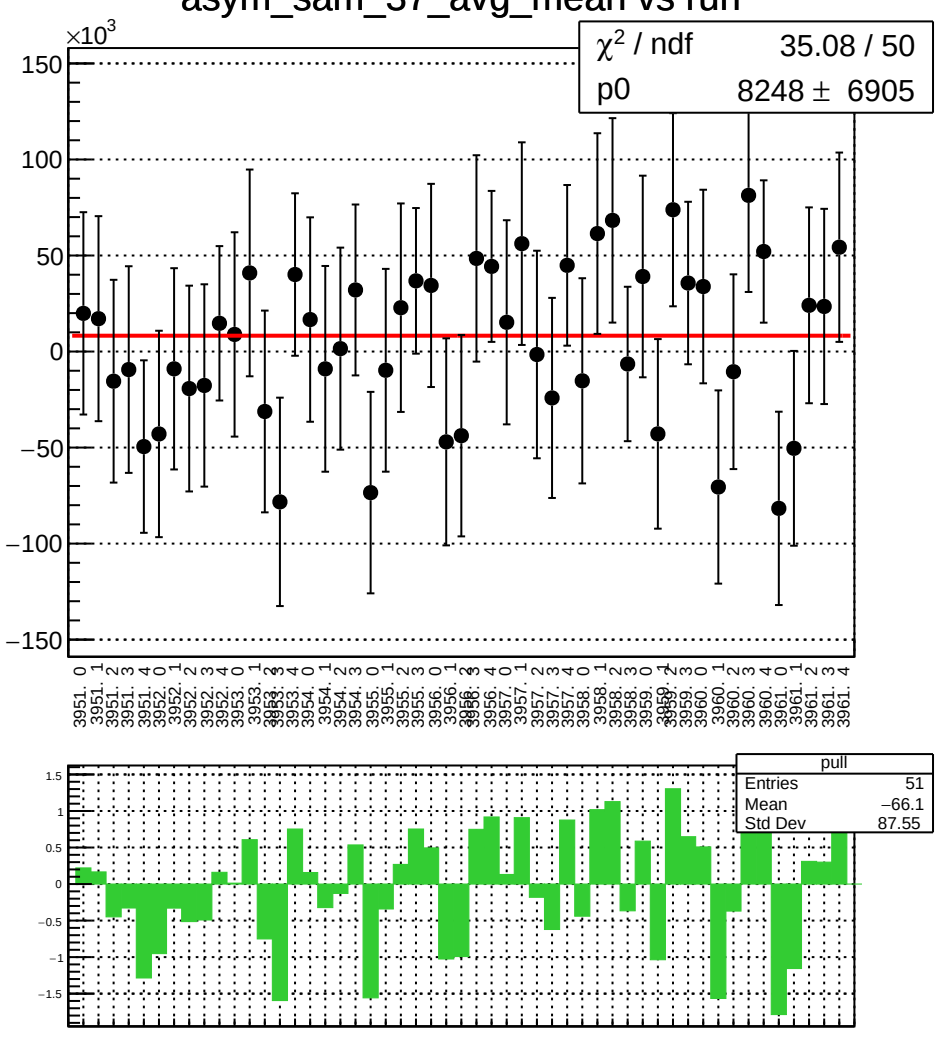

pull1D
Entries 51
Mean 0.003294
Std Dev 0.9051

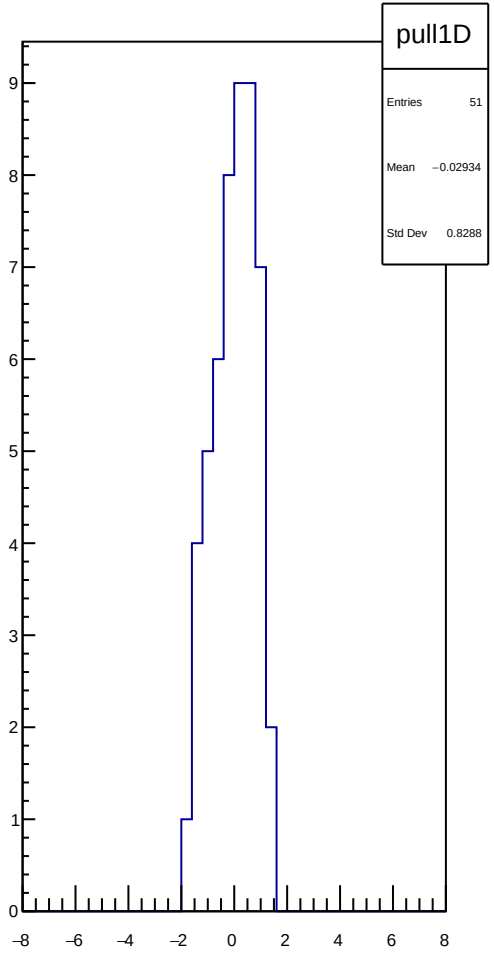

asym_sam_15_avg_rms vs run
χ² / ndf 2132 / 50
p0 190.5 ± 0.1873
210
200
190
180
170
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

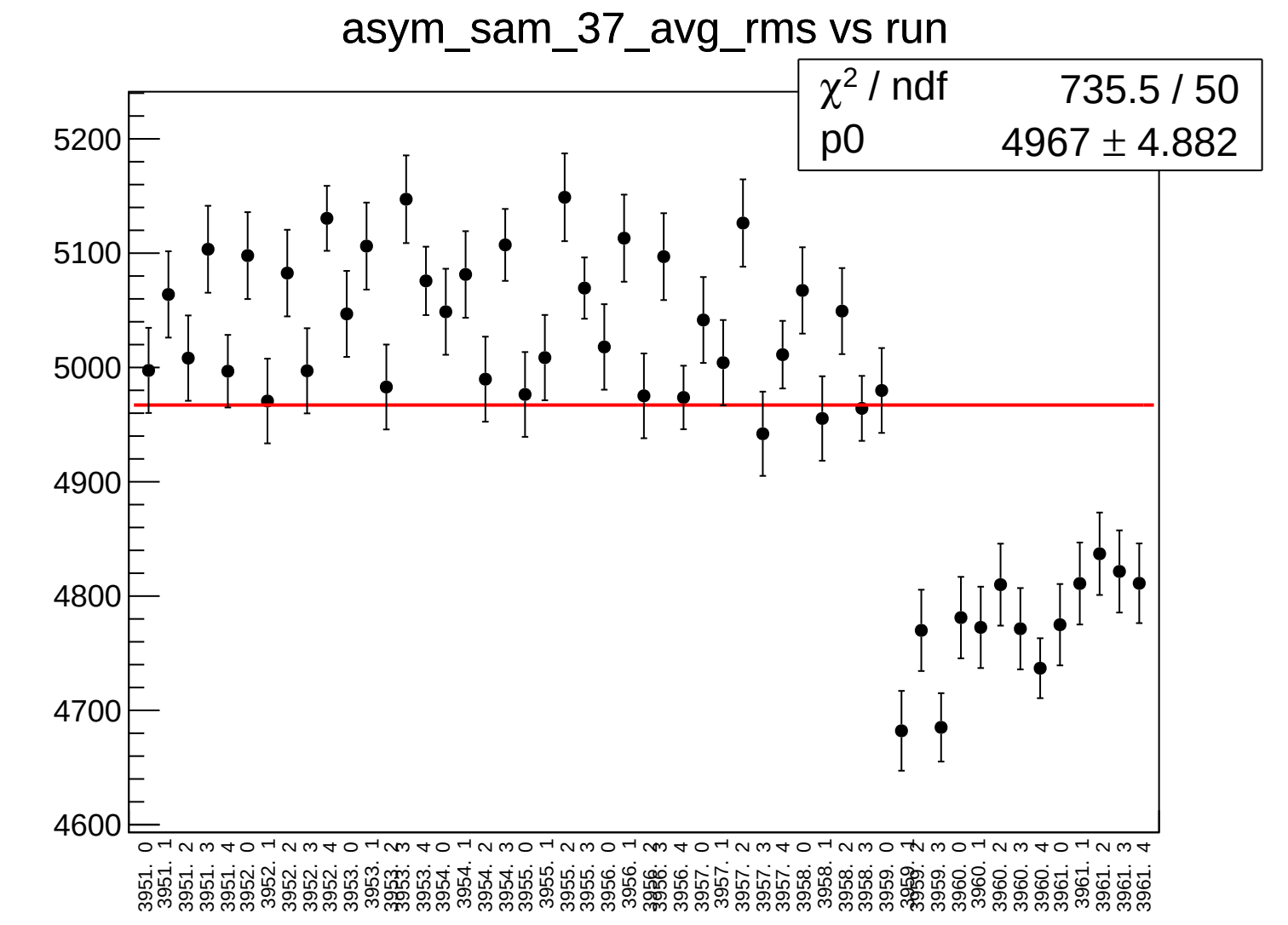

asym_sam_26_avg_mean vs run
χ² / ndf 37.77 / 50
p0 −1334 ± 3915
pull
Entries 51
Mean −111.3
Std Dev 136

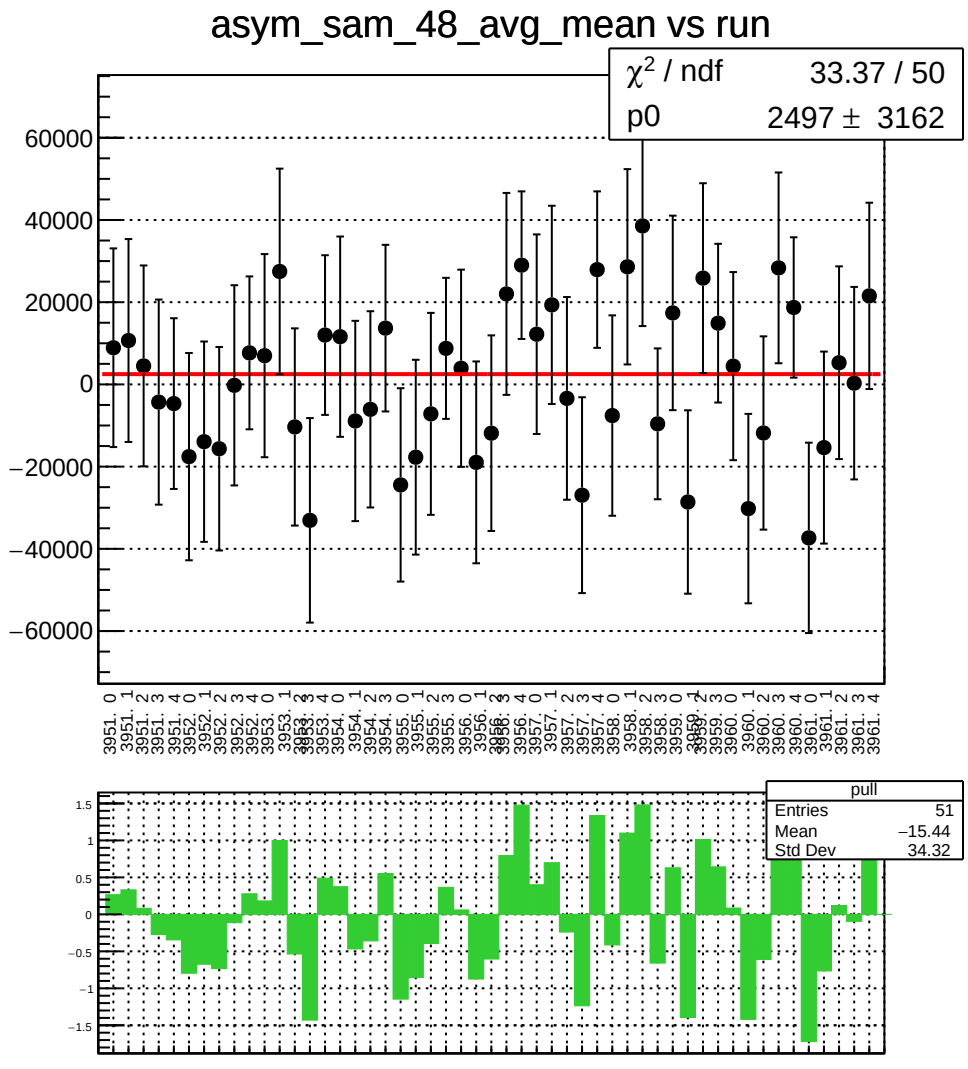

pull1D
Entries 51
Mean −0.01887
Std Dev 0.8604

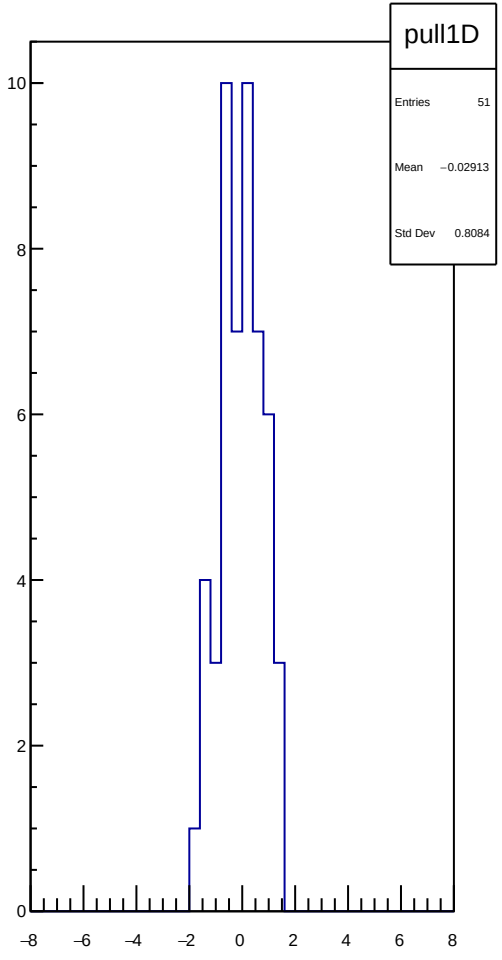

asym_sam_26_avg_rms vs run
χ² / ndf 438.5 / 50
p0 2816 ± 2.768
2950
2900
2850
2800
2750
2700
2650
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

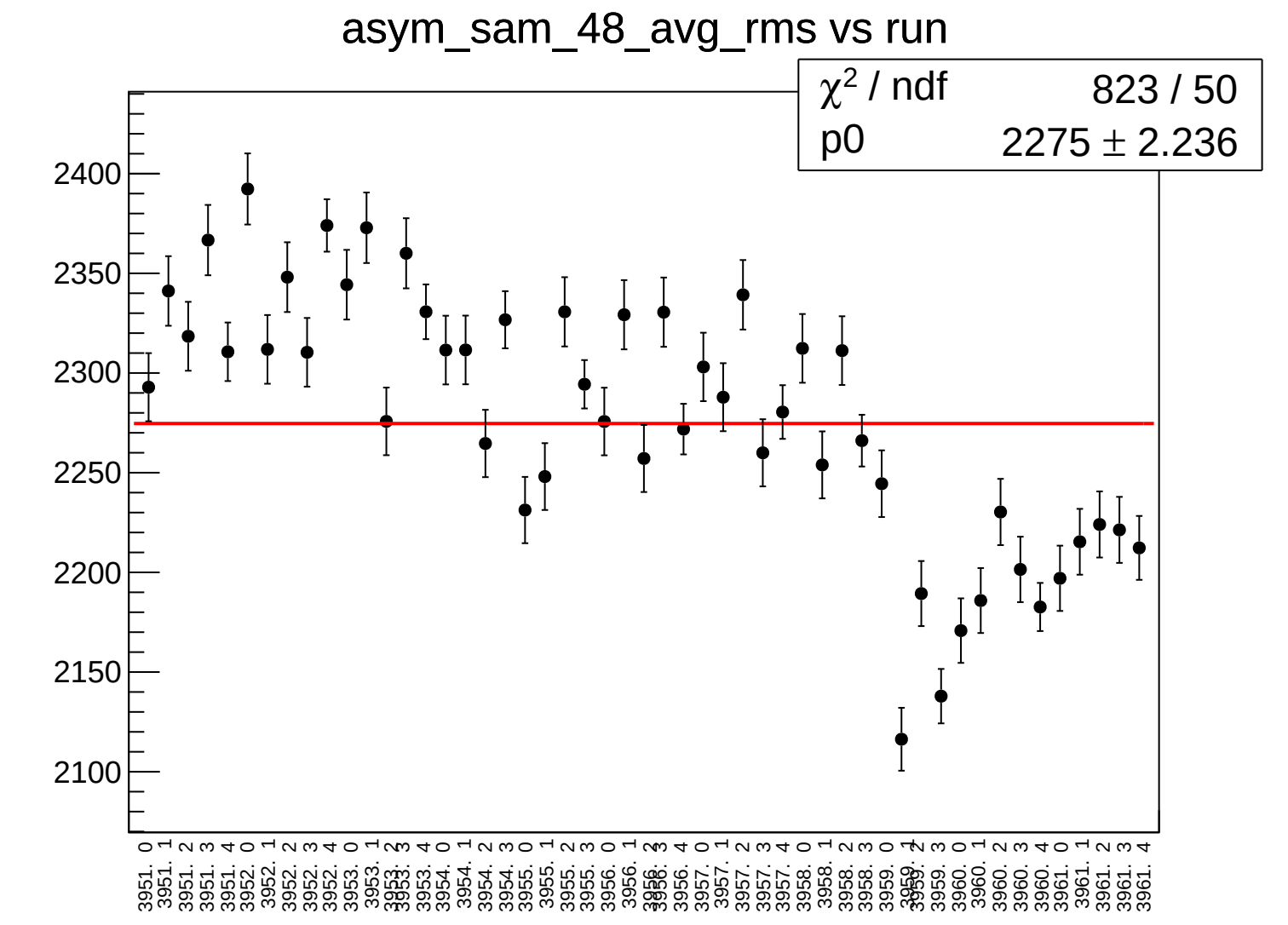

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 35.08 / 50
p0 8248 ± 6905
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean −66.1
Std Dev 87.55
1.5
1
0.5
0
−0.5
−1
−1.5

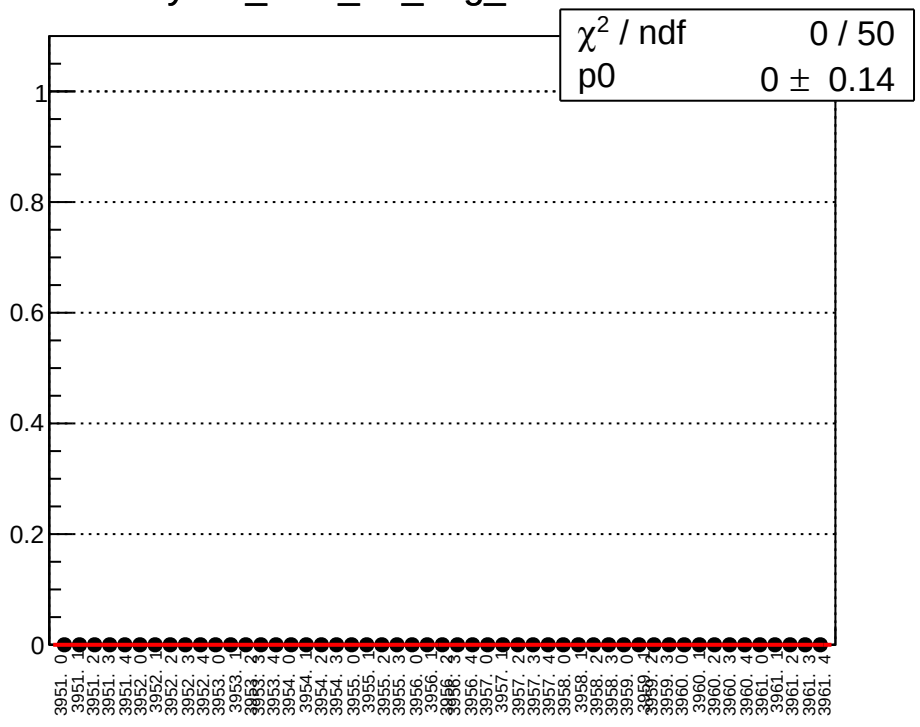

pull1D
Entries 51
Mean −0.02934
Std Dev 0.8288
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

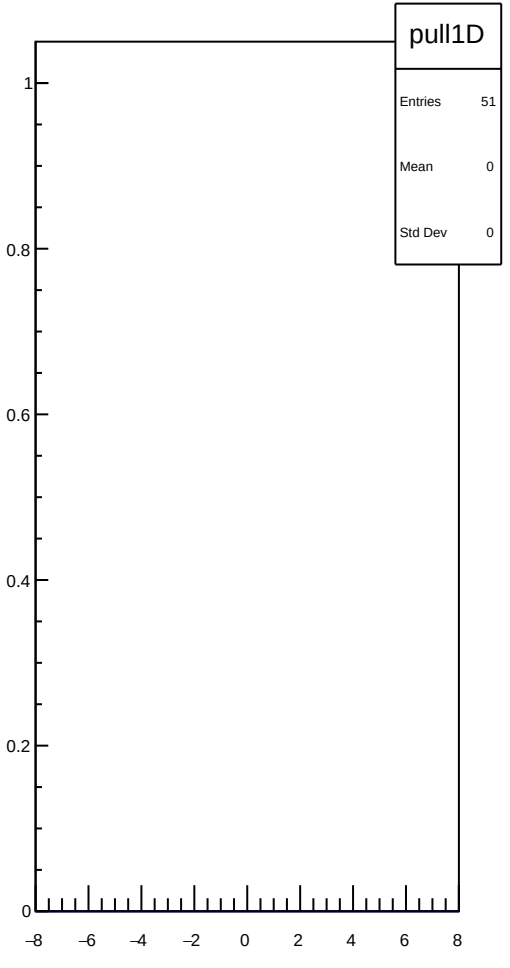

asym_sam_37_avg_rms vs run
χ² / ndf 735.5 / 50
p0 4967 ± 4.882
5200
5100
5000
4900
4800
4700
4600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

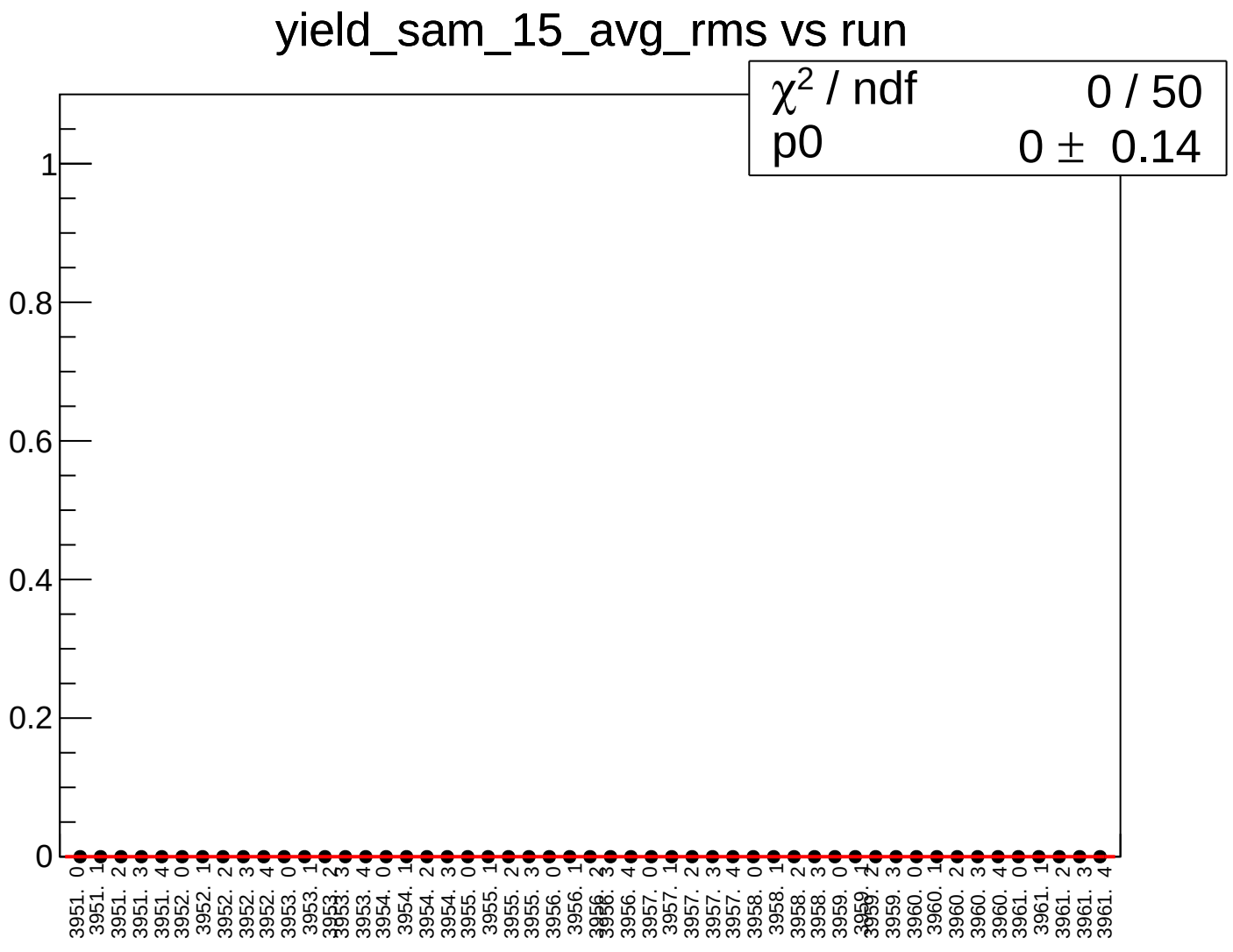

asym_sam_48_avg_mean vs run
χ² / ndf 33.37 / 50
p0 2497 ± 3162
pull
Entries 51
Mean −15.44
Std Dev 34.32

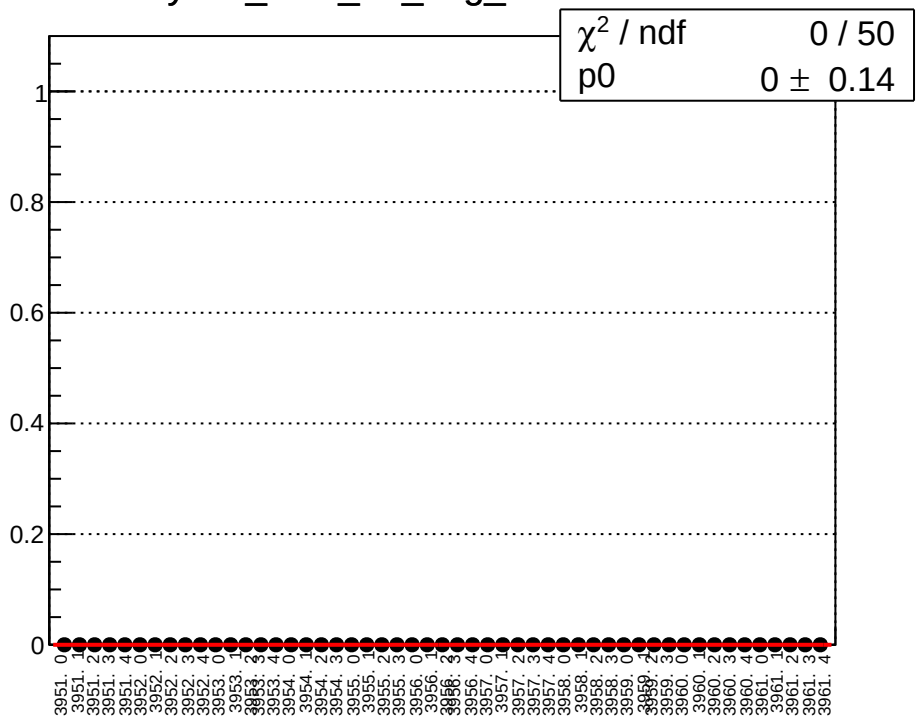

pull1D
Entries 51
Mean −0.02913
Std Dev 0.8084

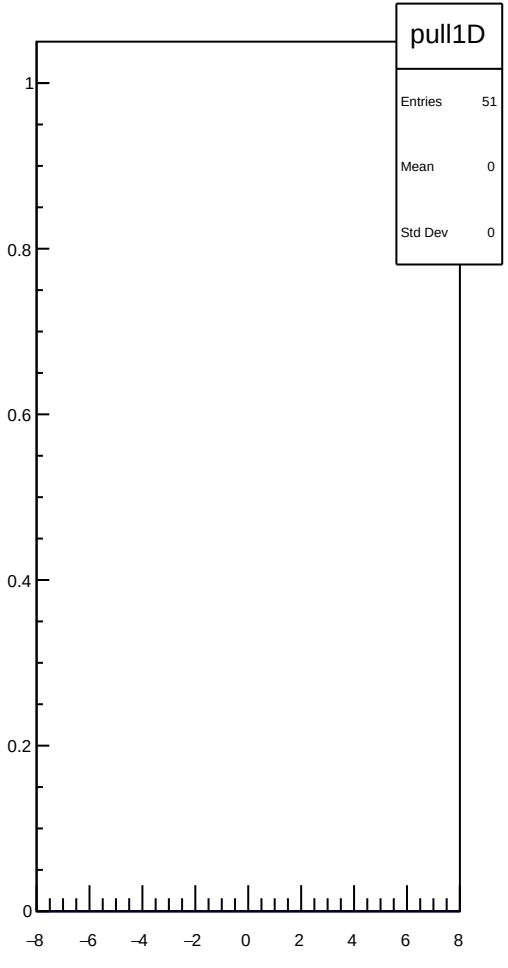

asym_sam_48_avg_rms vs run
χ² / ndf 823 / 50
p0 2275 ± 2.236
2400
2350
2300
2250
2200
2150
2100
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

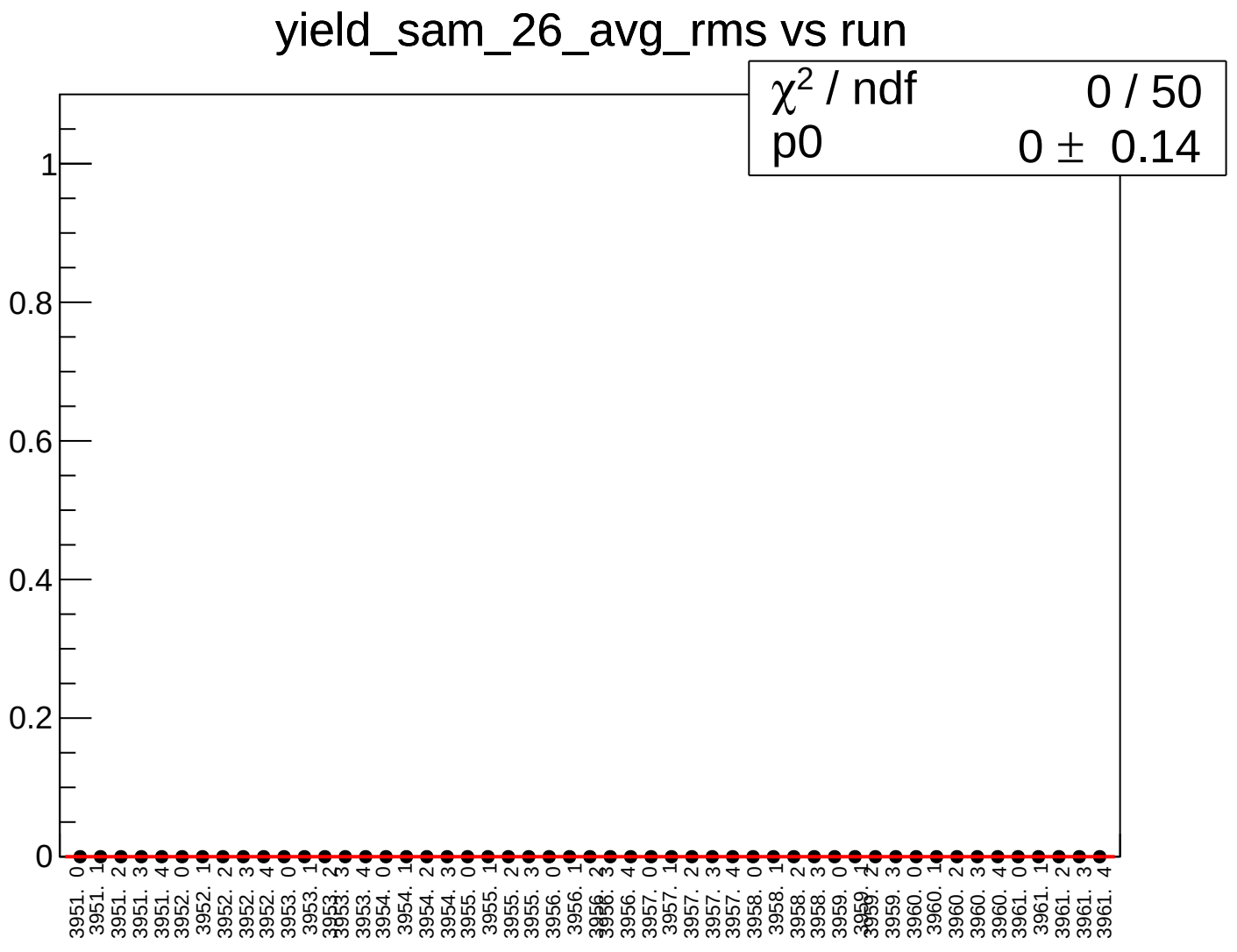

yield_sam_15_avg_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

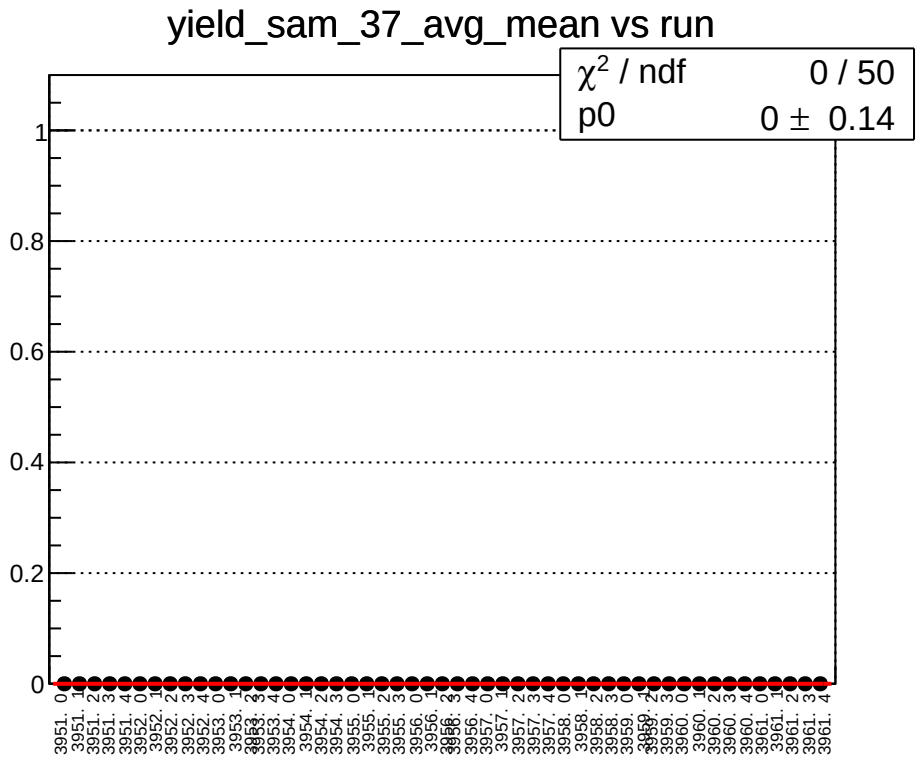

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

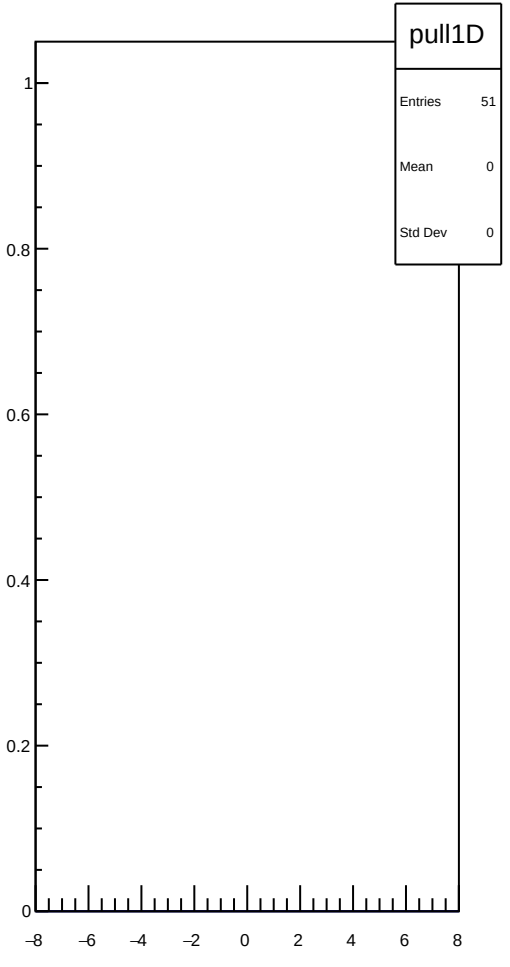

yield_sam_15_avg_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

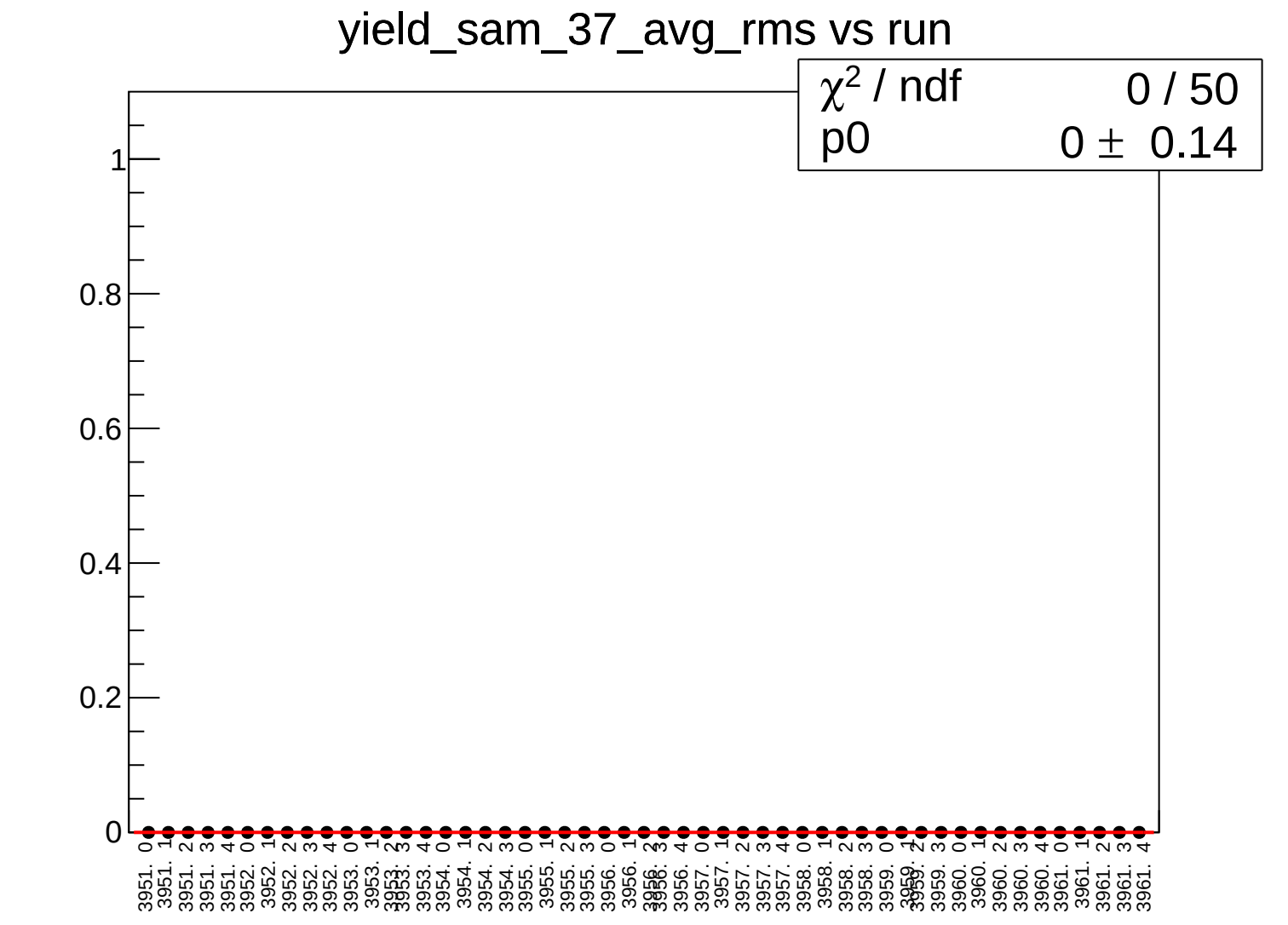

yield_sam_26_avg_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

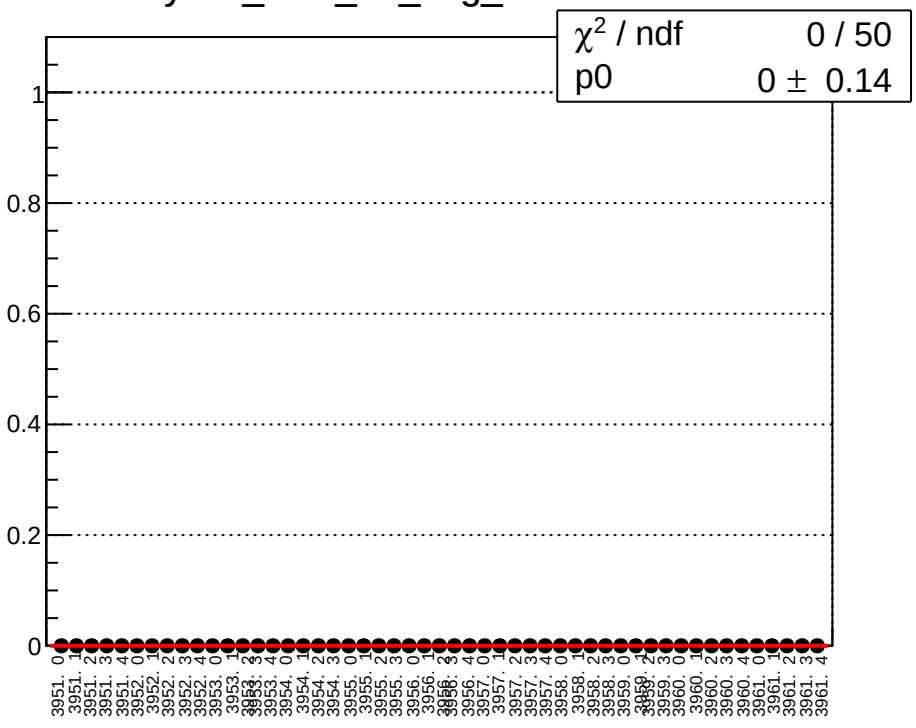

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

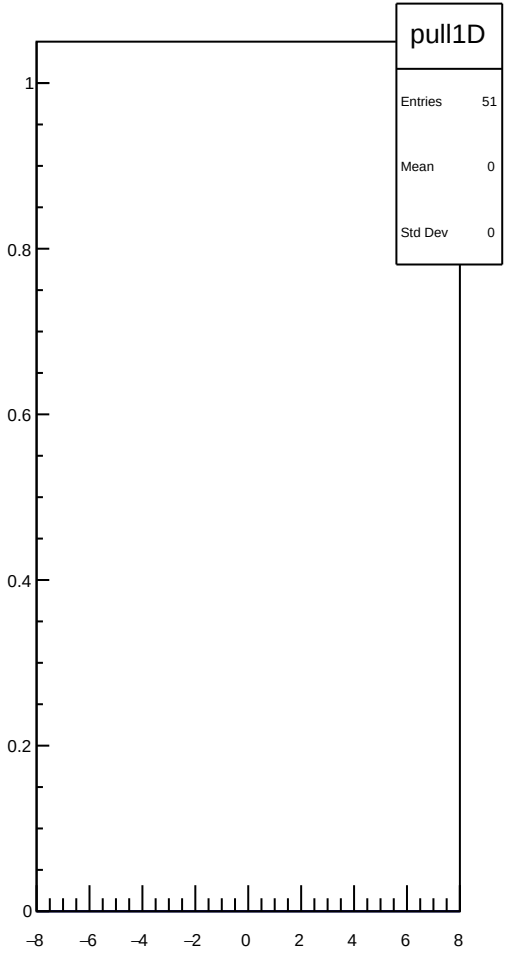

yield_sam_26_avg_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

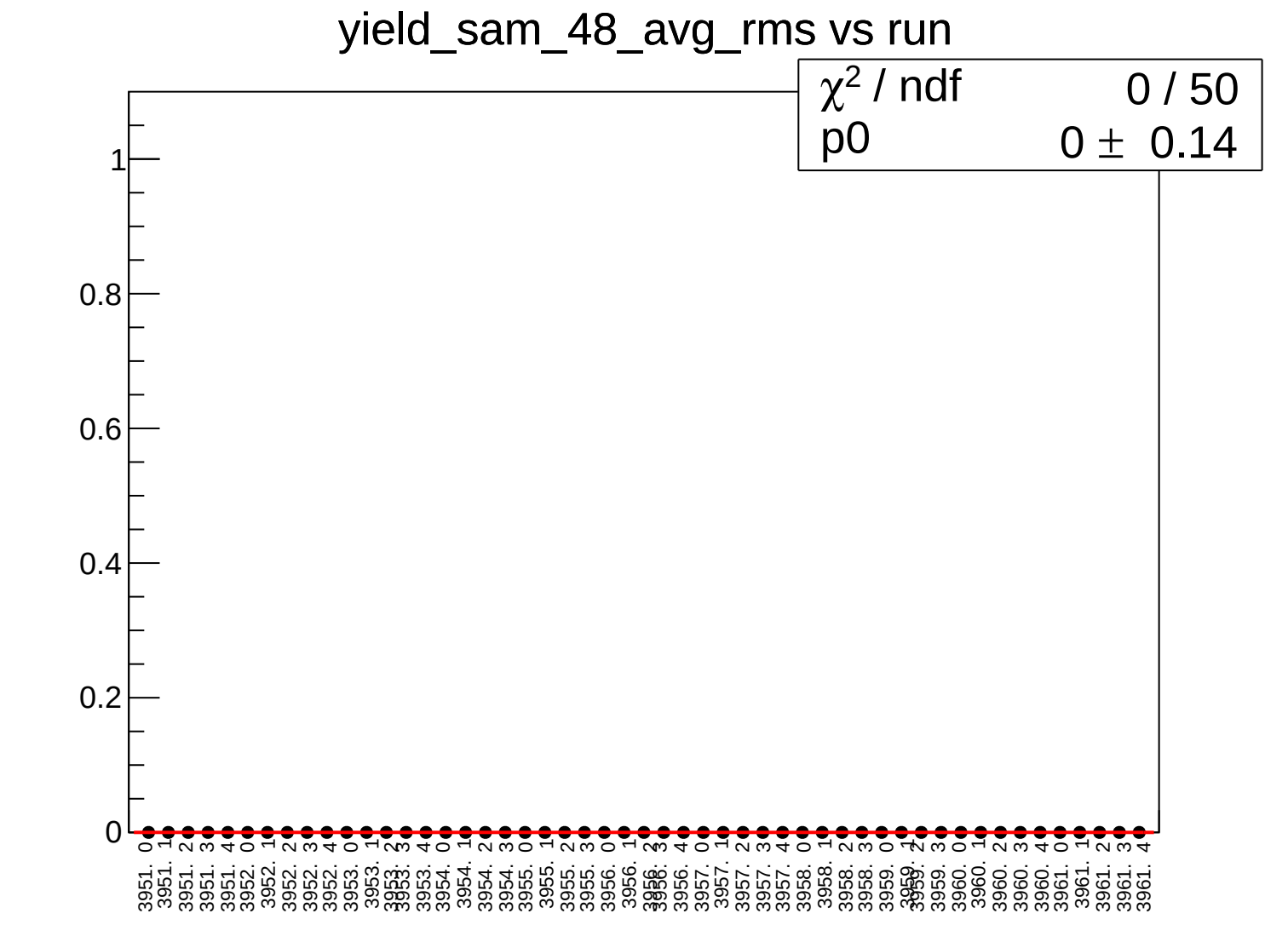

yield_sam_37_avg_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 51
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_avg_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


yield_sam_48_avg_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 51
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_avg_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
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3954. 2
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3955. 0
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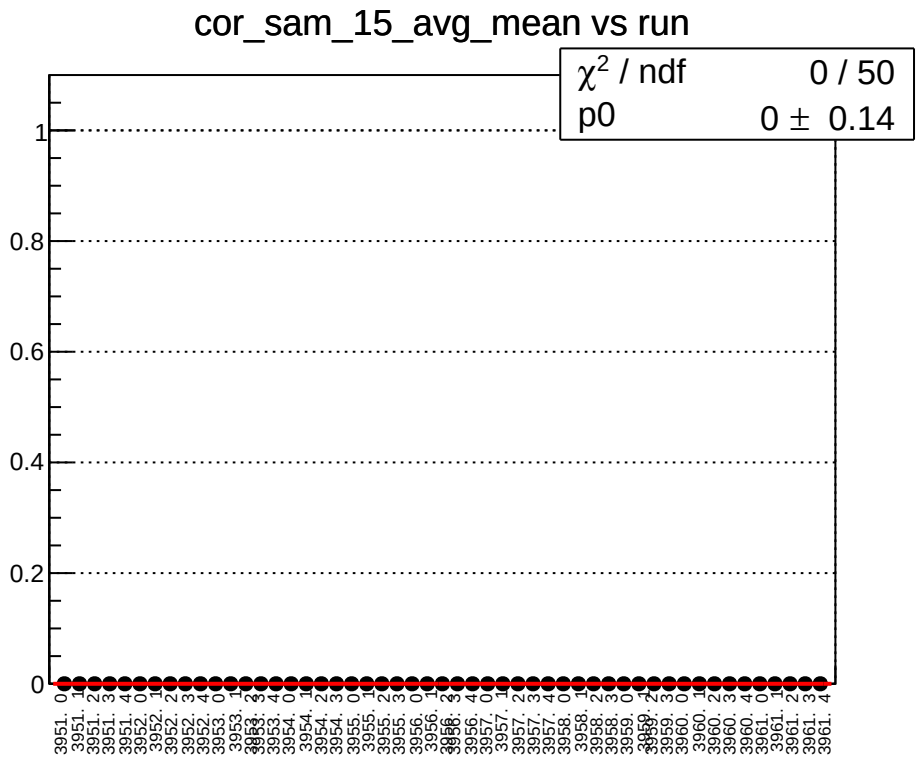
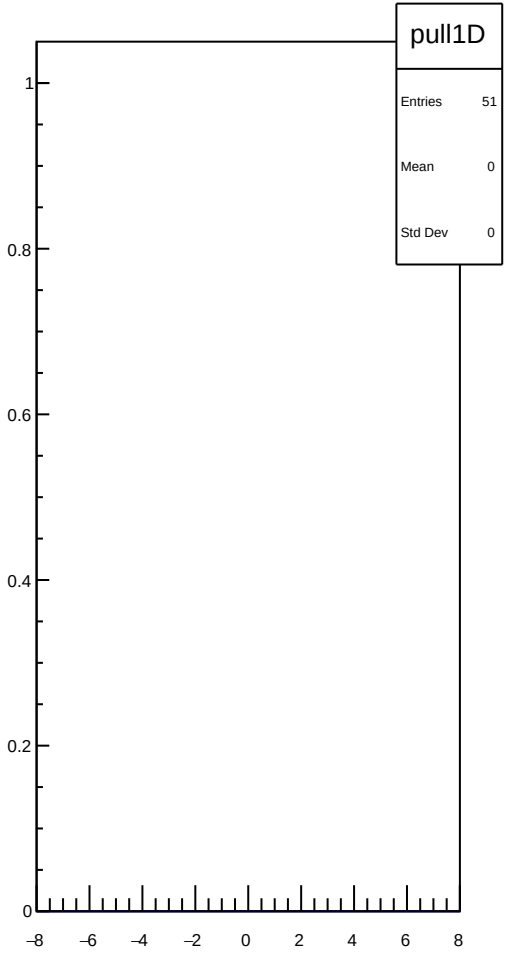
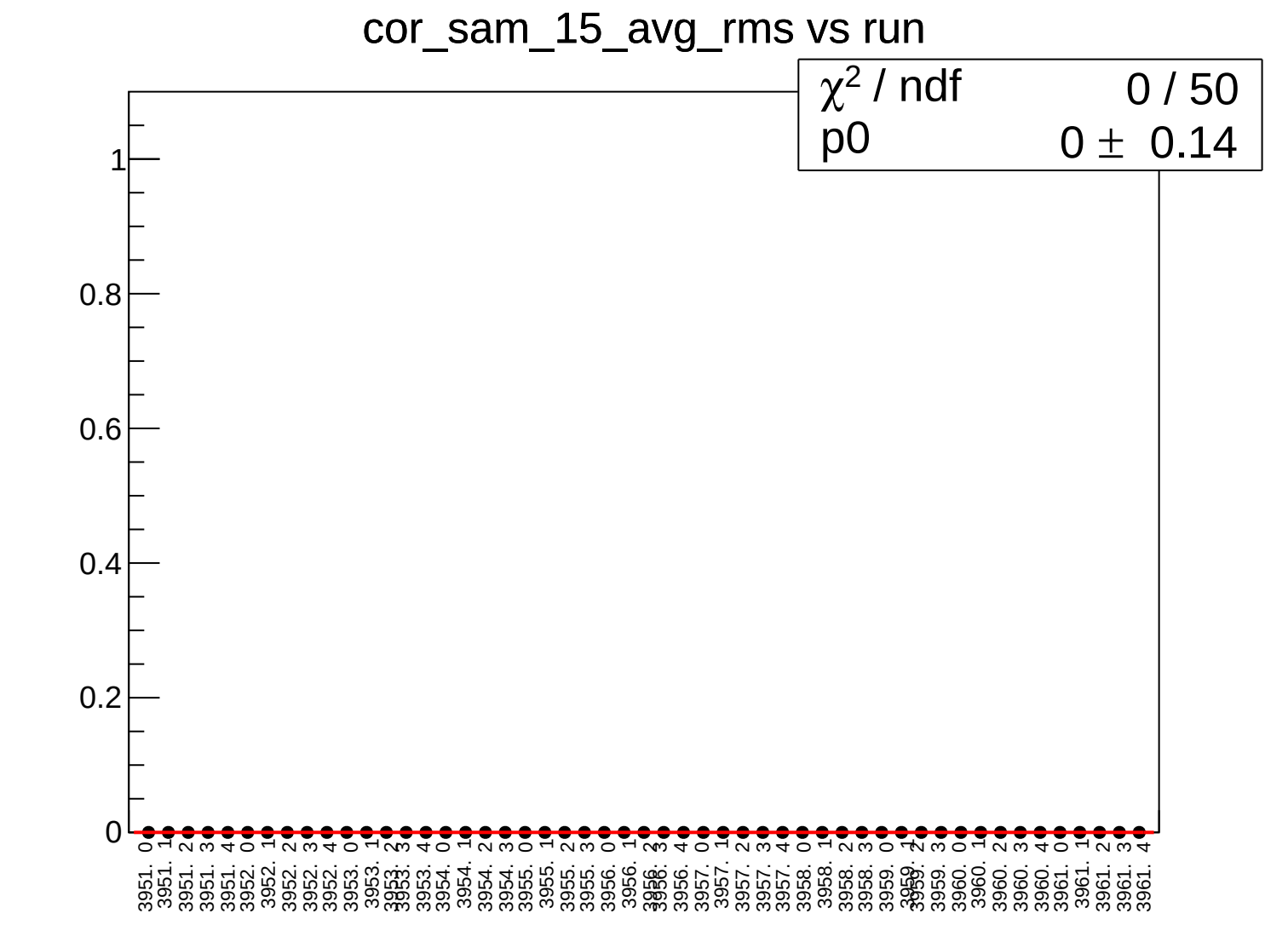
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


cor_sam_15_avg_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 51
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 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
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3954. 2
3954. 3
3954. 4
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3955. 2
3955. 3
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3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
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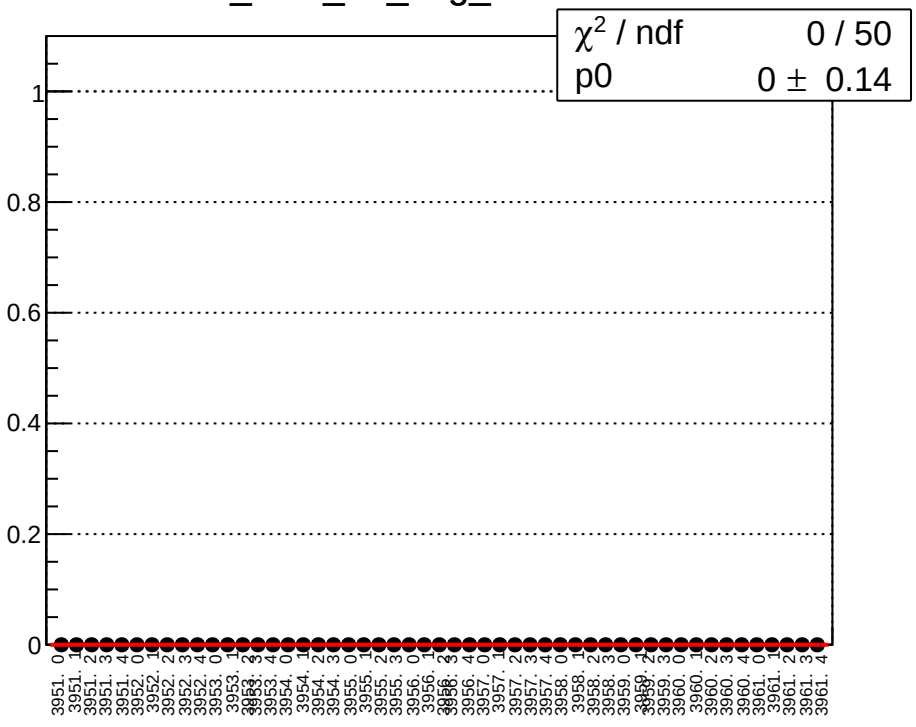
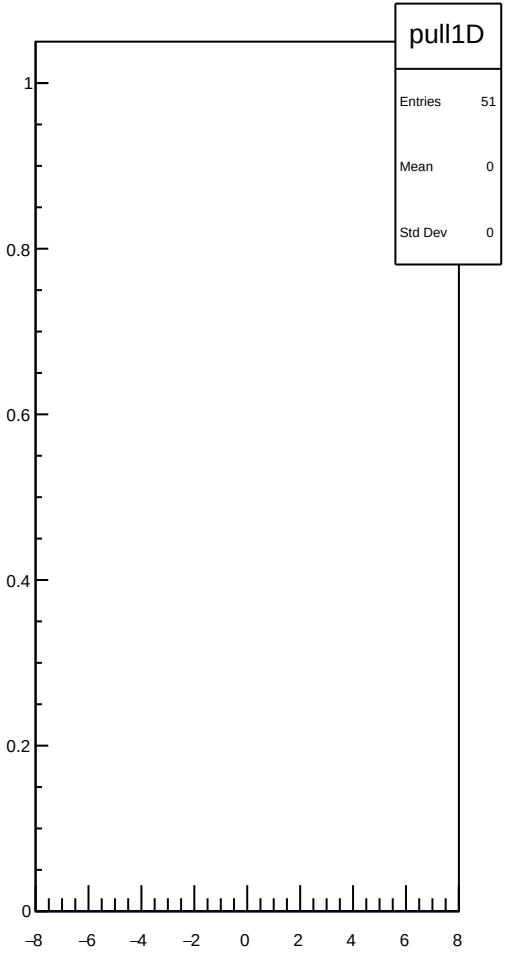
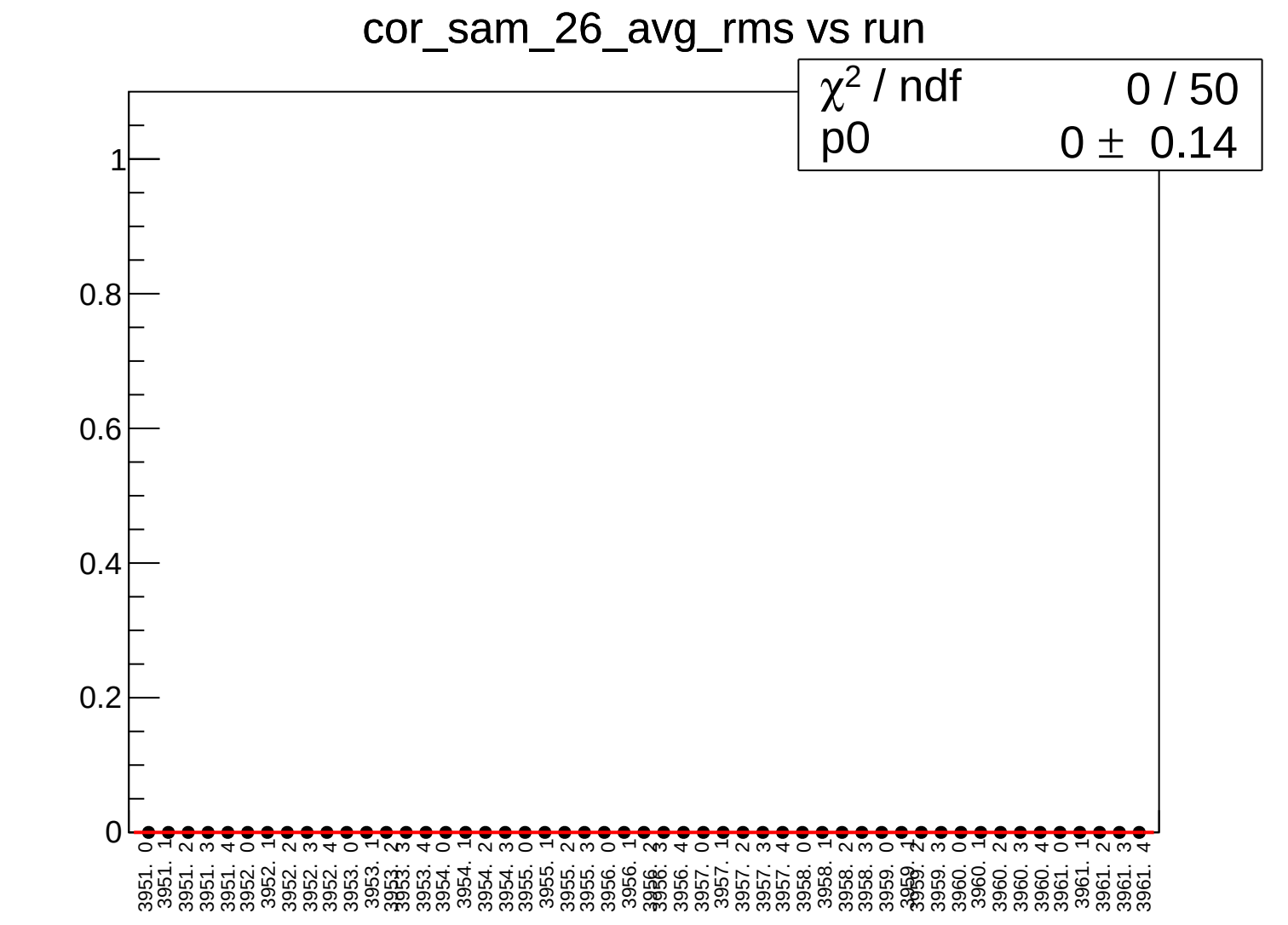
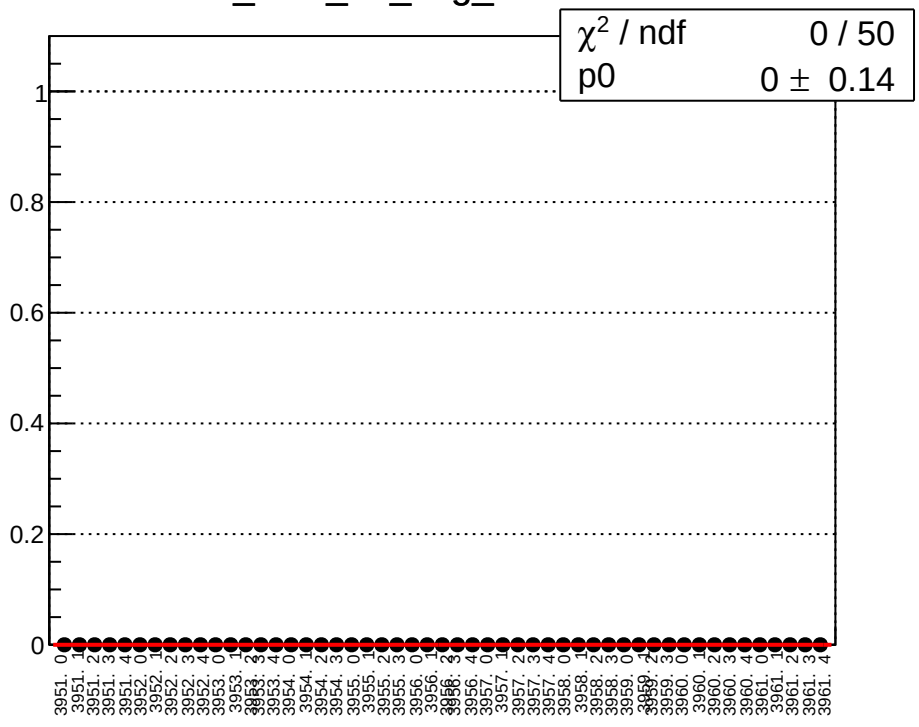
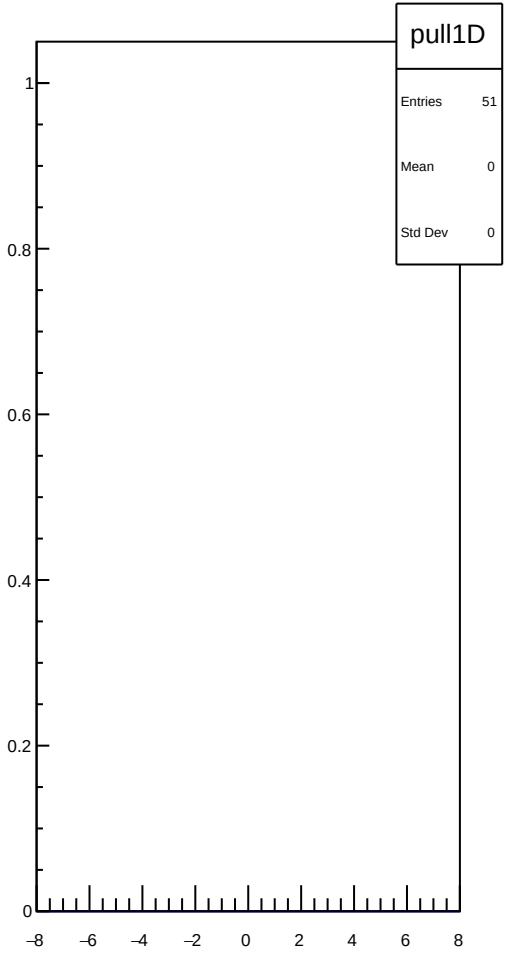
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

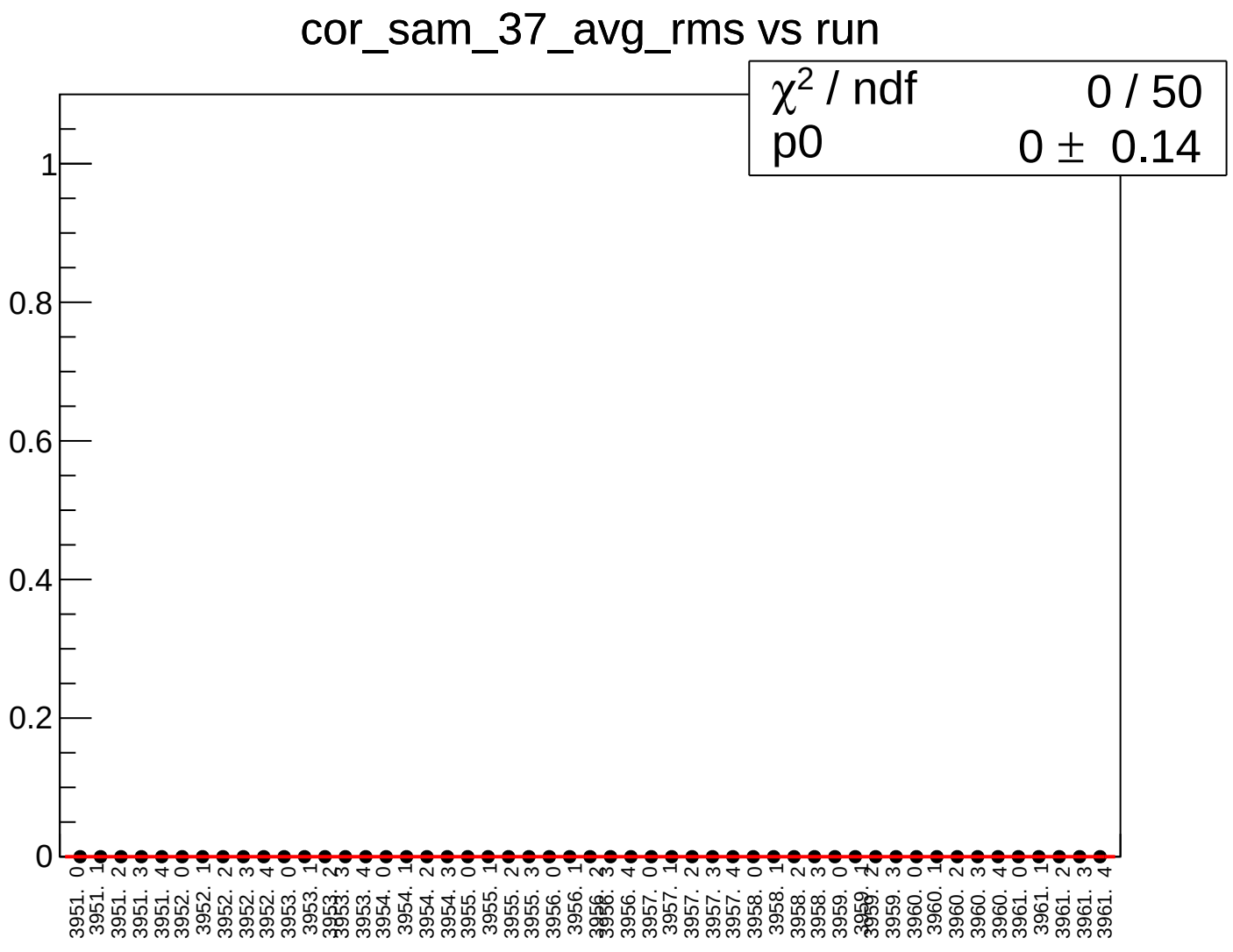

cor_sam_26_avg_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

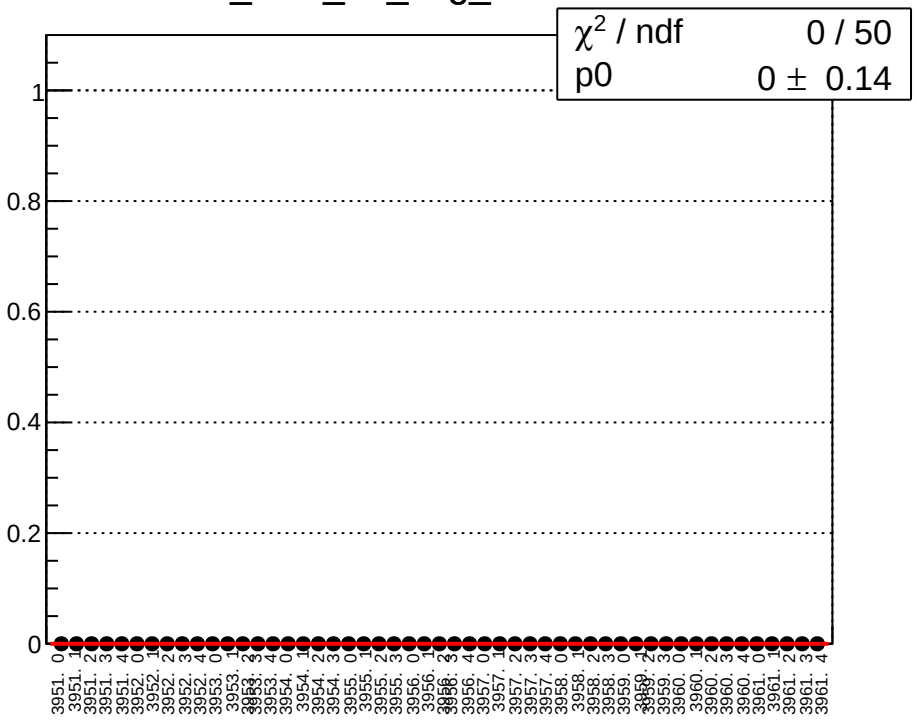

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

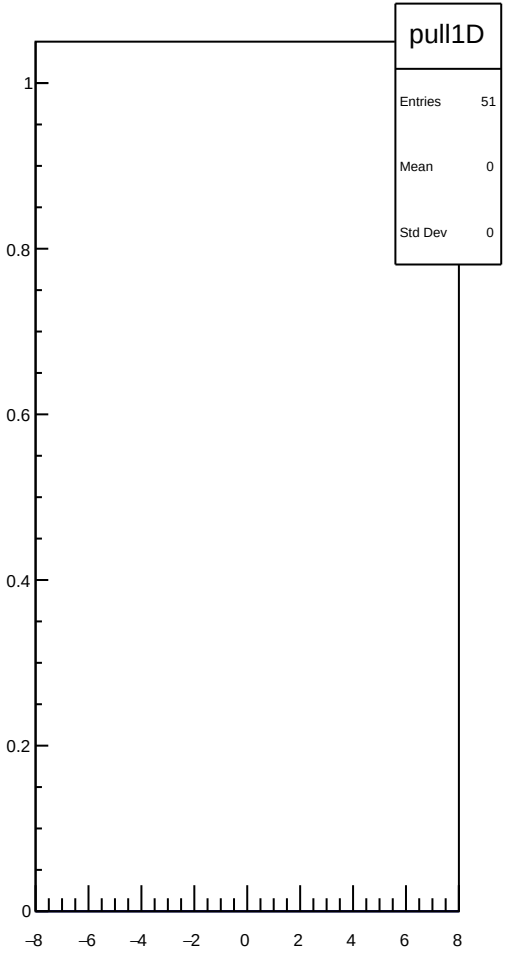

cor_sam_26_avg_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

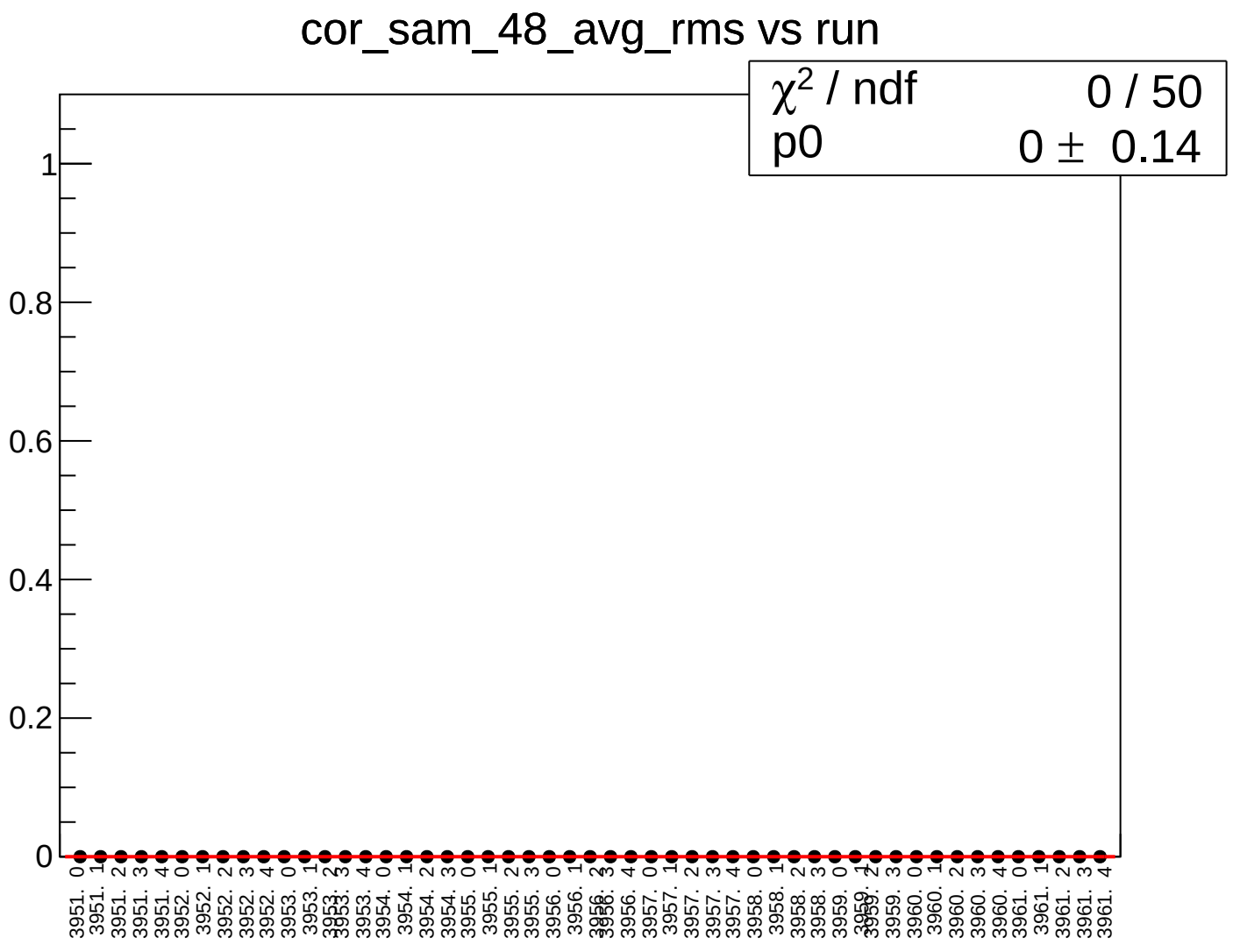

cor_sam_37_avg_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

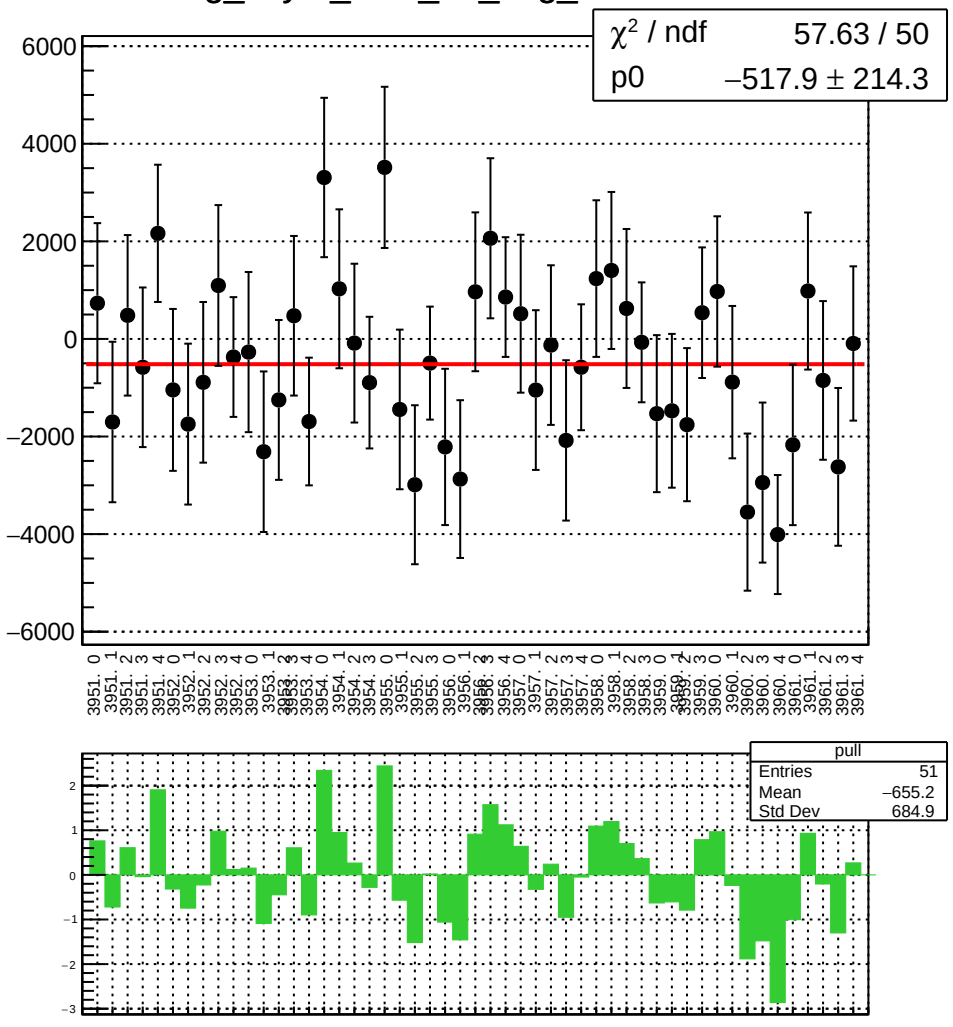

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

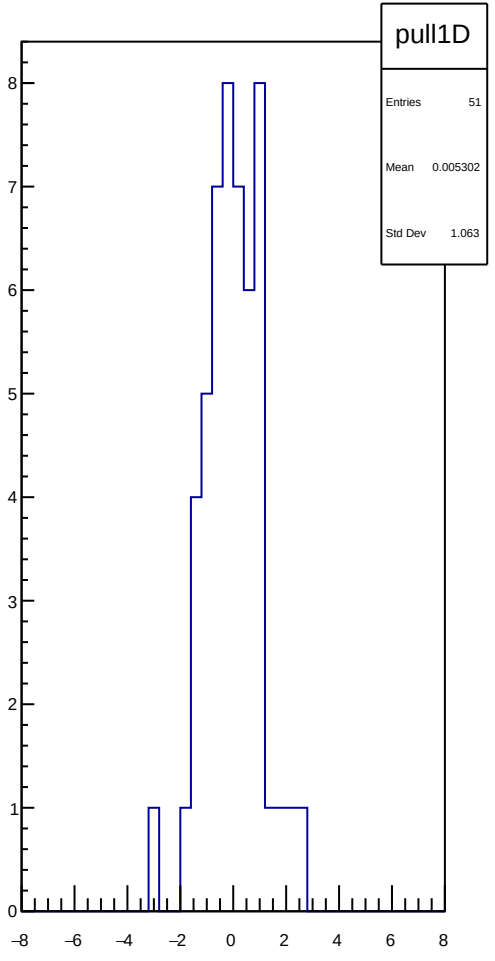

cor_sam_37_avg_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

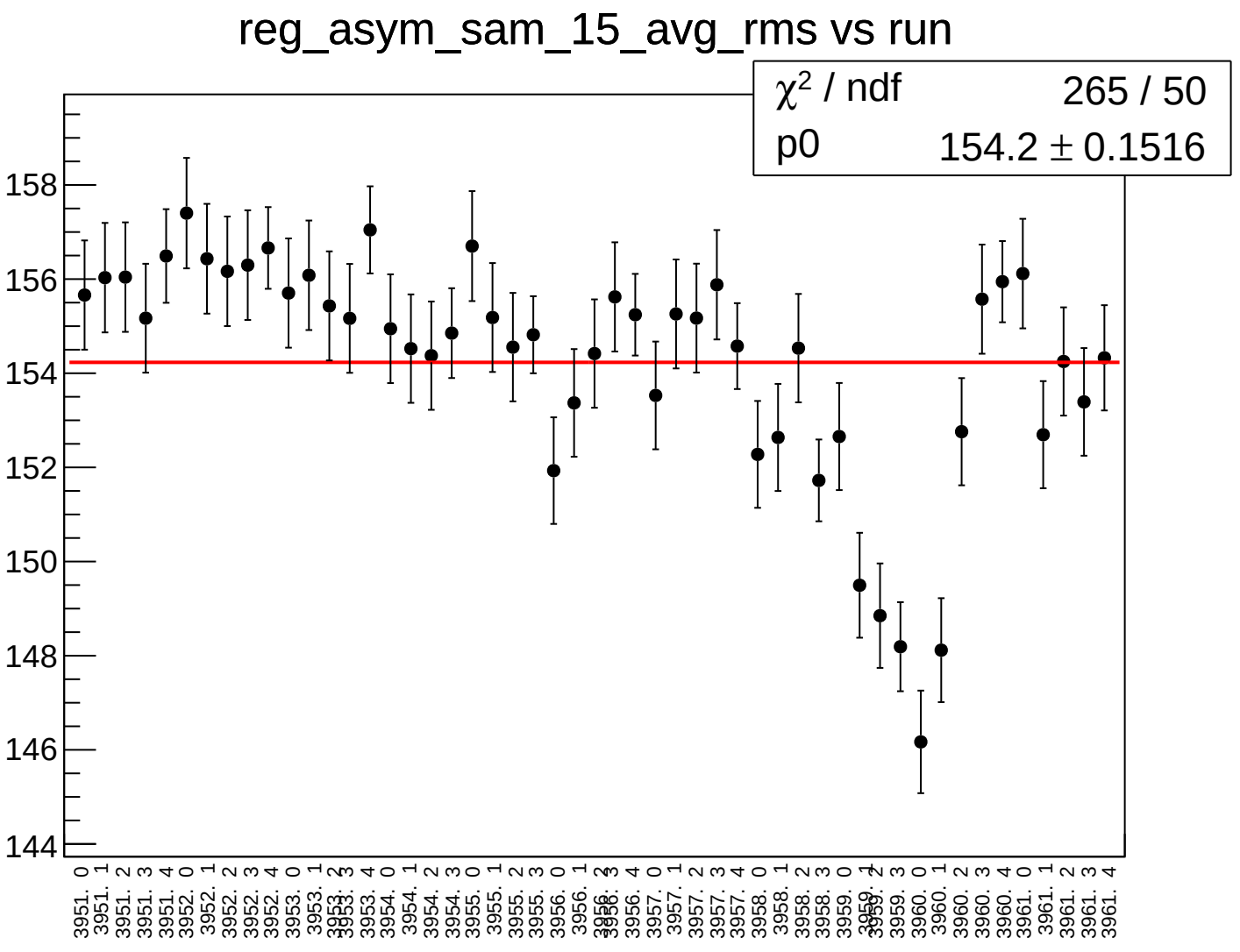

cor_sam_48_avg_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

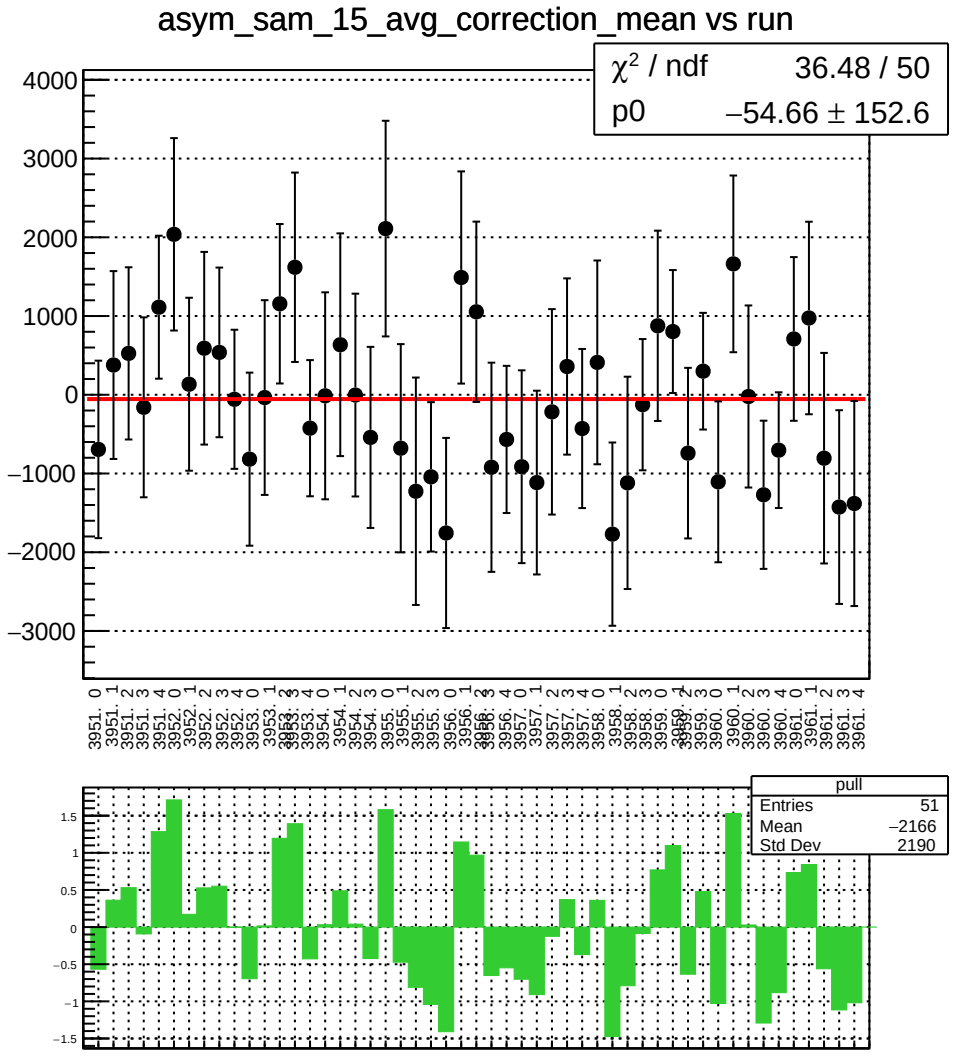

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

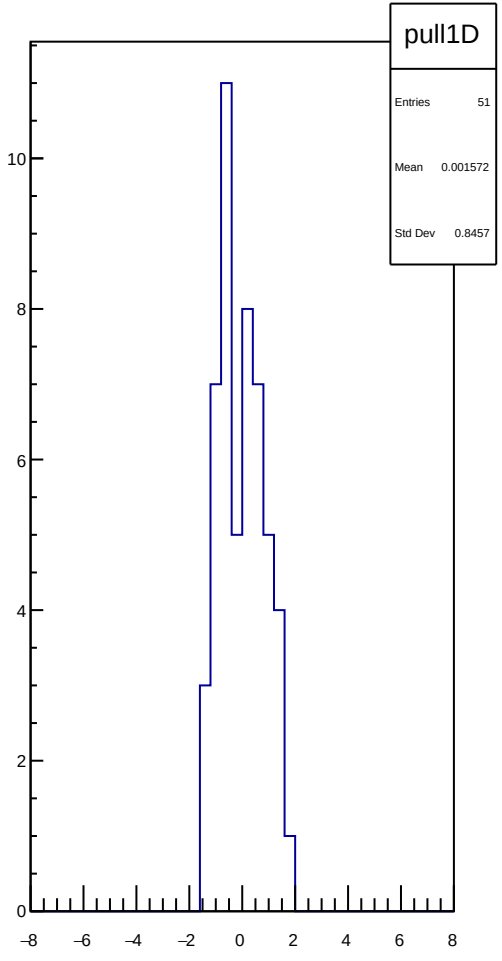

cor_sam_48_avg_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

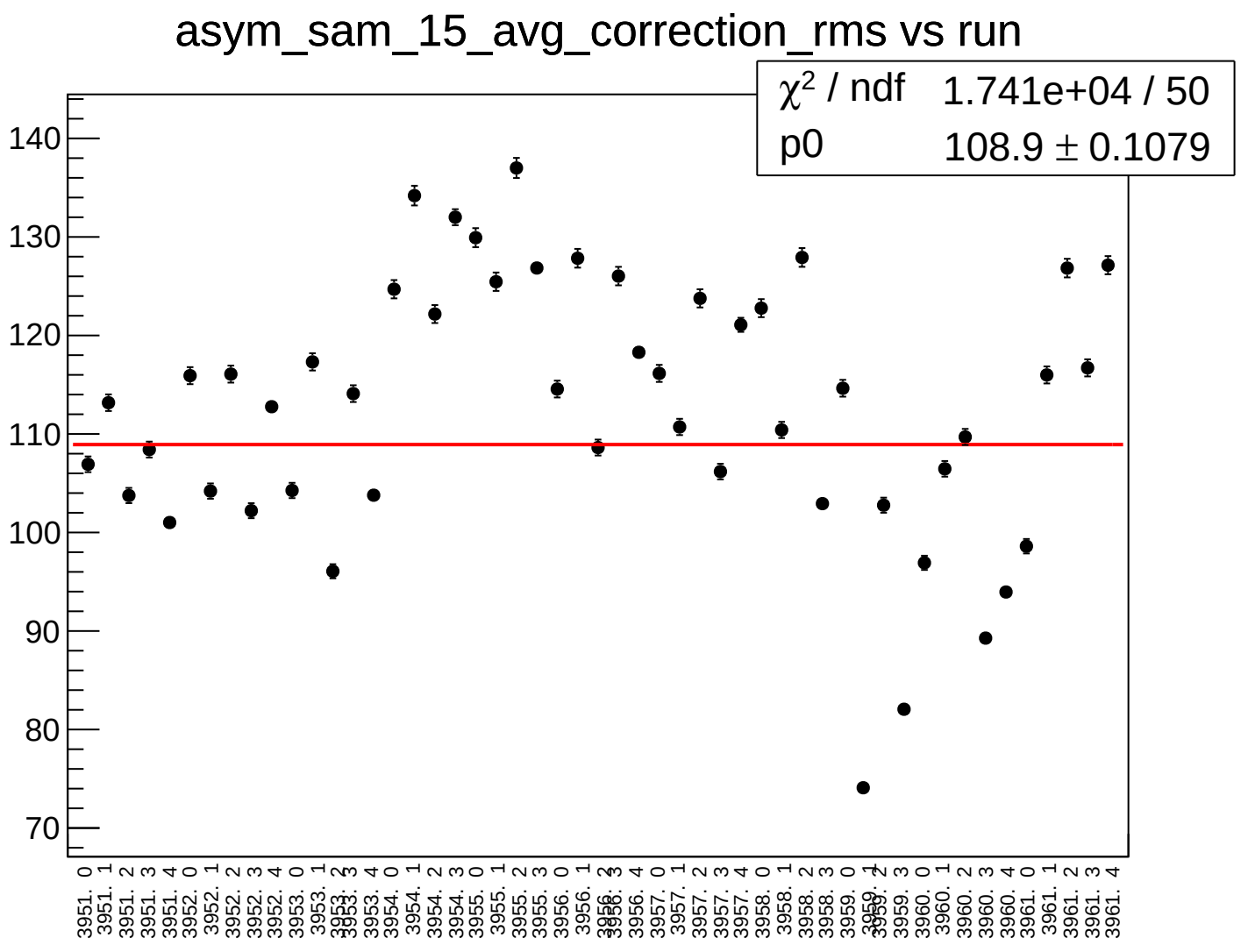

reg_asym_sam_15_avg_mean vs run
χ² / ndf 57.63 / 50
p0 −517.9 ± 214.3
pull
Entries 51
Mean −655.2
Std Dev 684.9

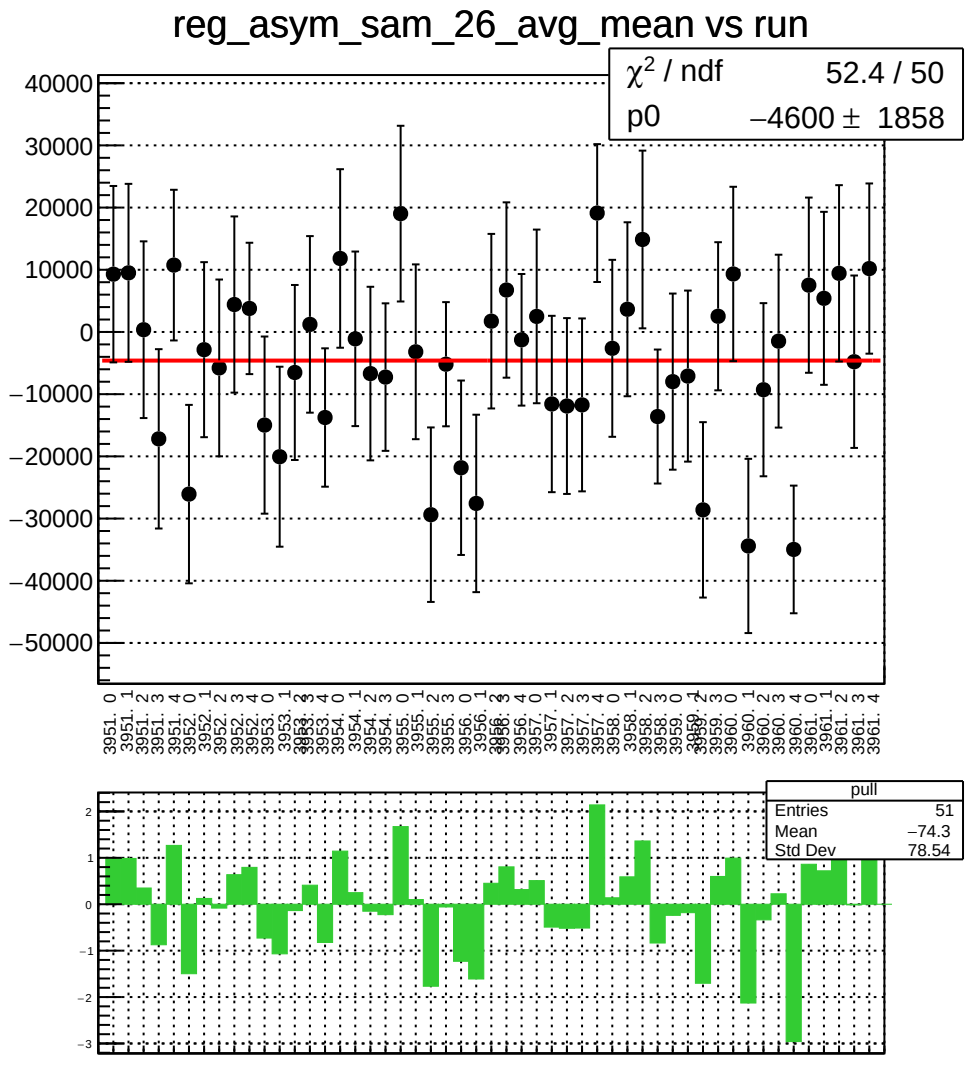

pull1D
Entries 51
Mean 0.005302
Std Dev 1.063

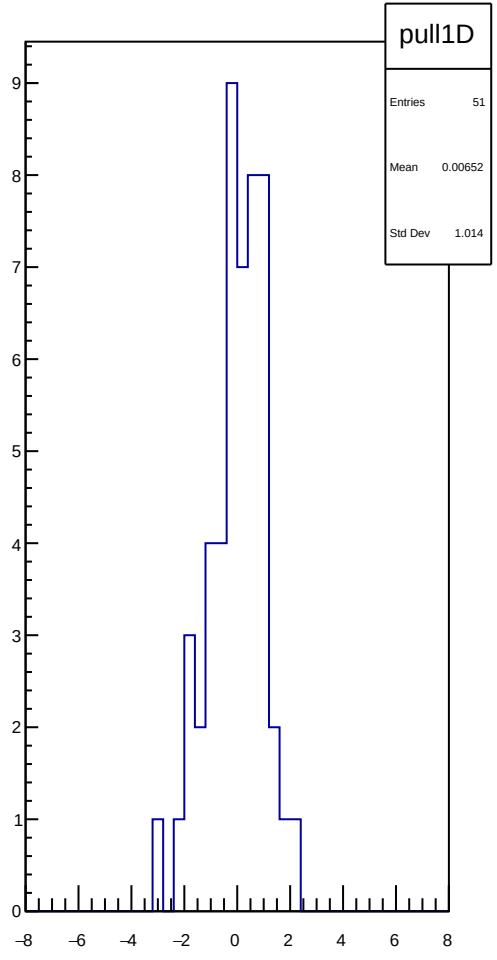

reg_asym_sam_15_avg_rms vs run
χ² / ndf 265 / 50
p0 154.2 ± 0.1516
158
156
154
152
150
148
146
144
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

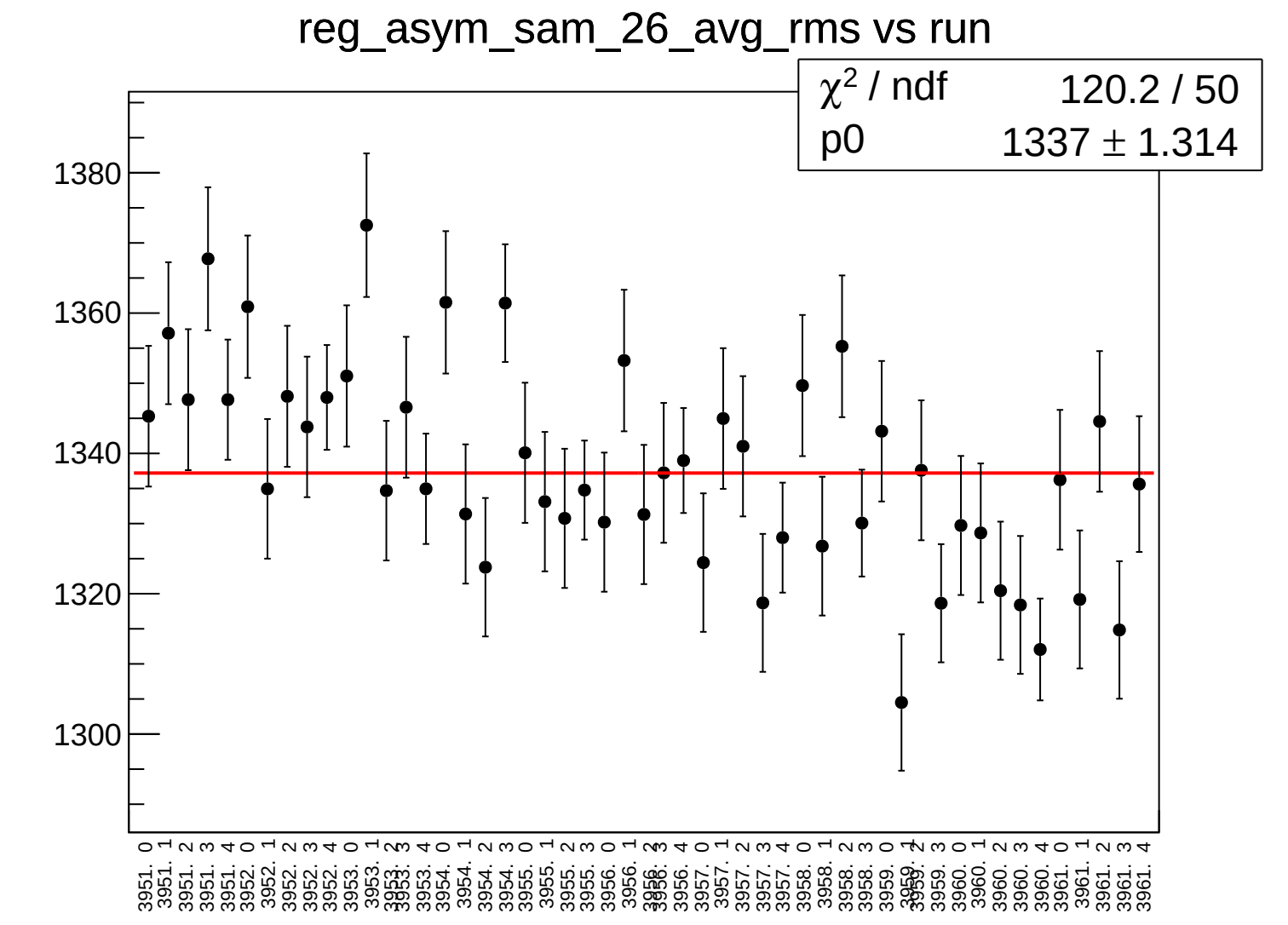

asym_sam_15_avg_correction_mean vs run
χ² / ndf 36.48 / 50
p0 −54.66 ± 152.6
pull
Entries 51
Mean −2166
Std Dev 2190

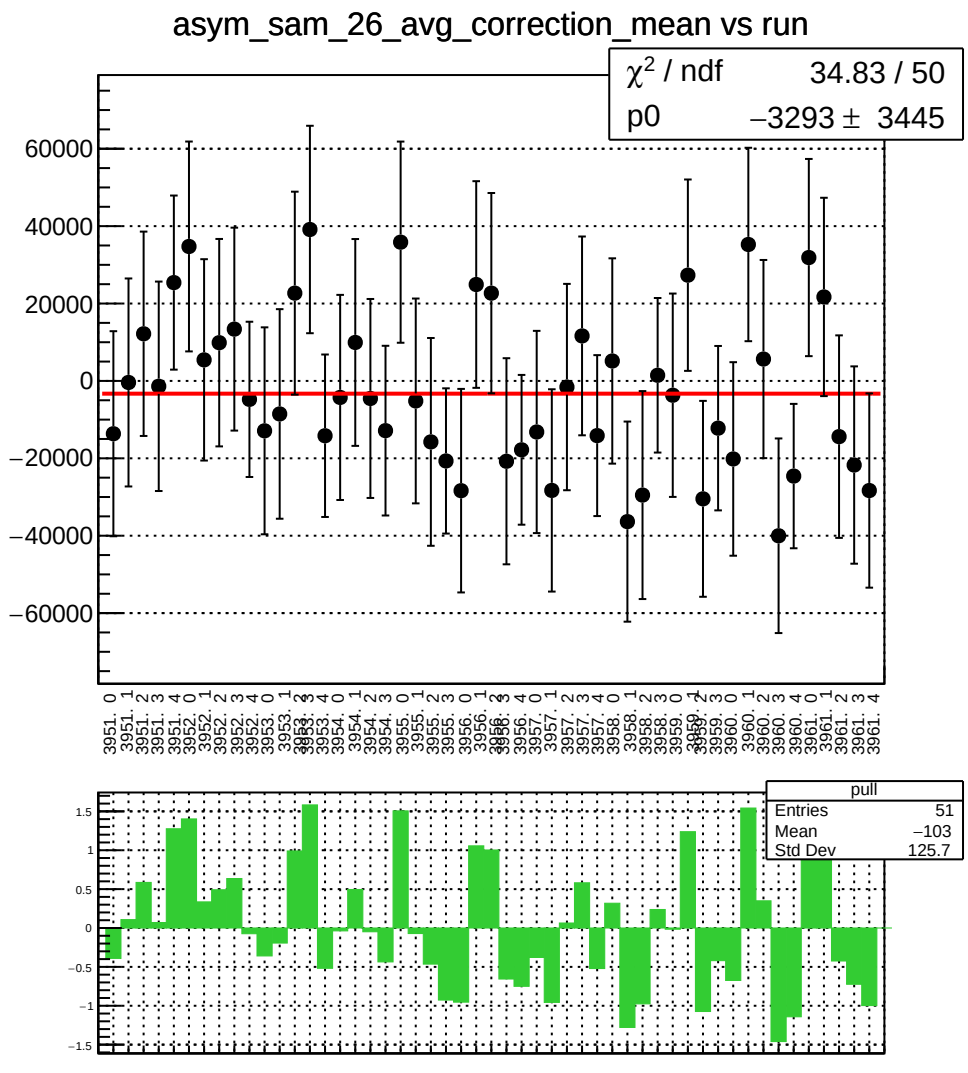

pull1D
Entries 51
Mean 0.001572
Std Dev 0.8457

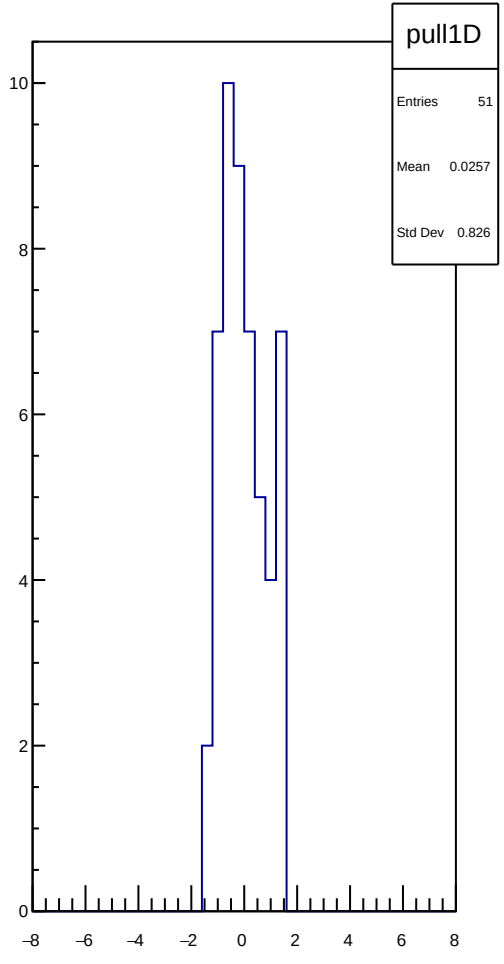

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.741e+04 / 50
p0 108.9 ± 0.1079
140
130
120
110
100
90
80
70
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

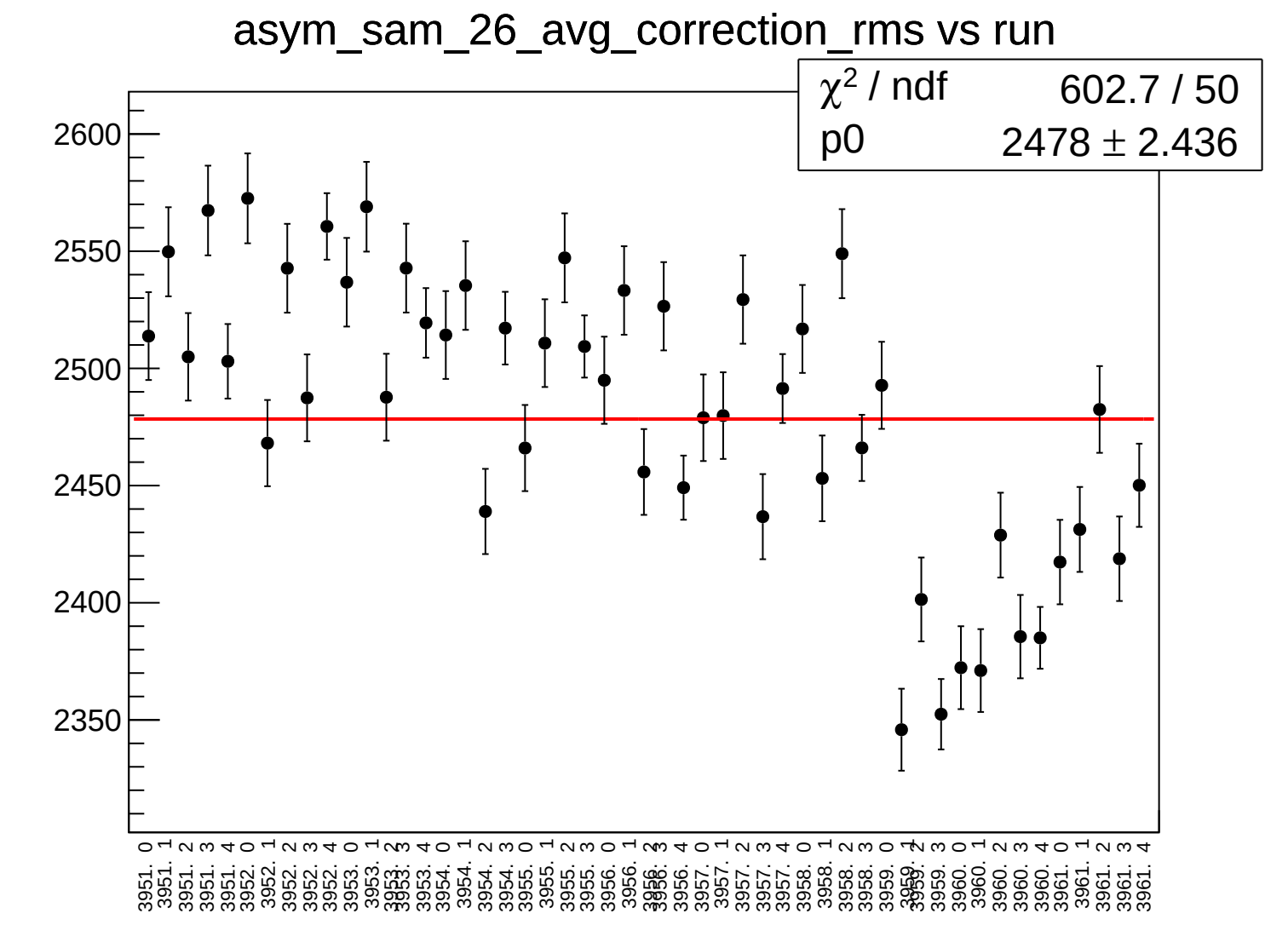

reg_asym_sam_26_avg_mean vs run
χ² / ndf 52.4 / 50
p0 −4600 ± 1858
pull
Entries 51
Mean −74.3
Std Dev 78.54

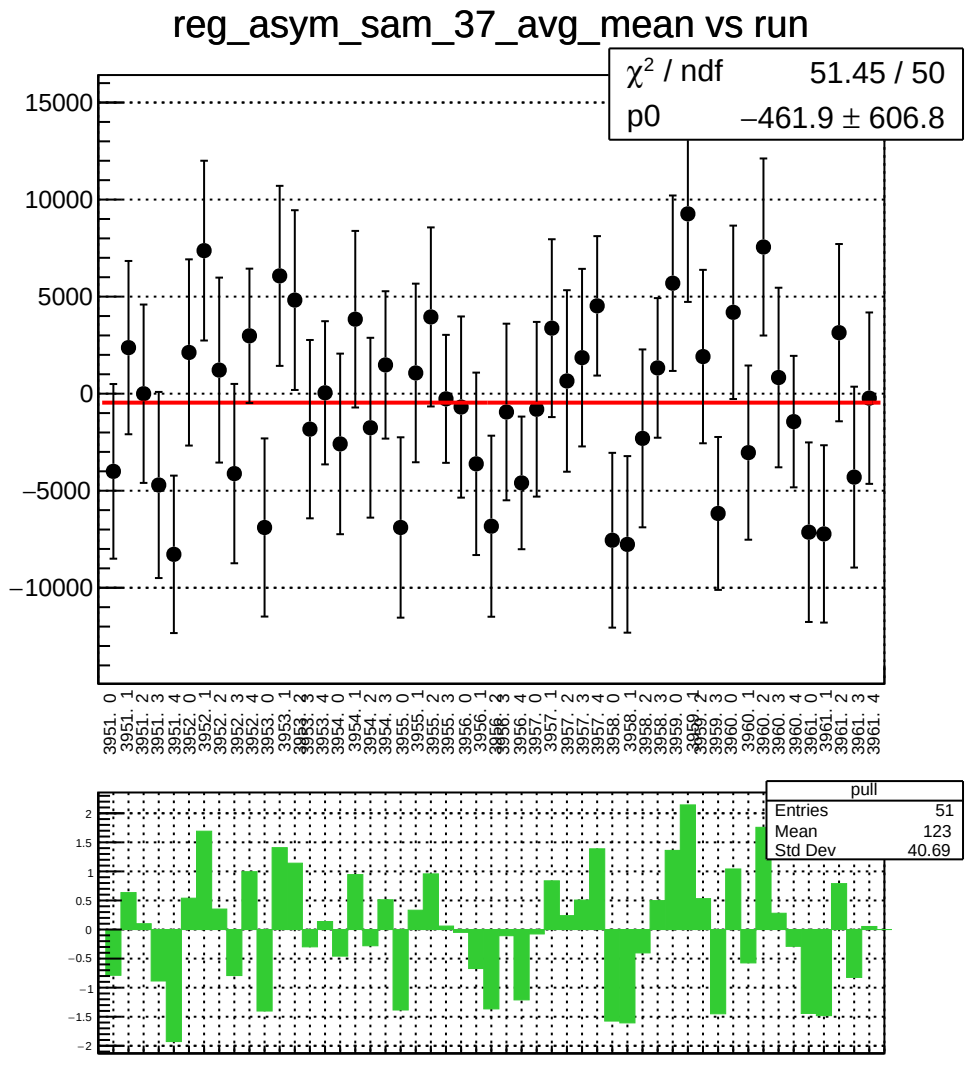

pull1D
Entries 51
Mean 0.00652
Std Dev 1.014

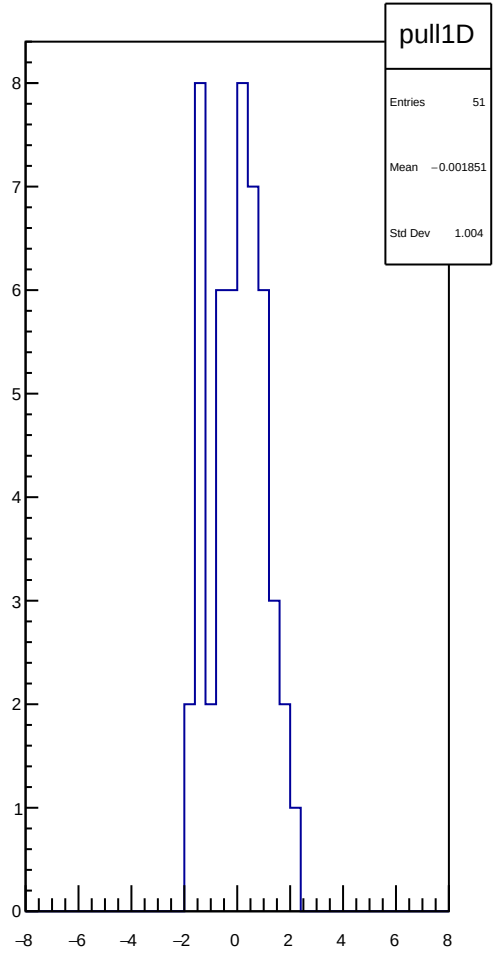

reg_asym_sam_26_avg_rms vs run
χ² / ndf 120.2 / 50
p0 1337 ± 1.314
1380
1360
1340
1320
1300
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

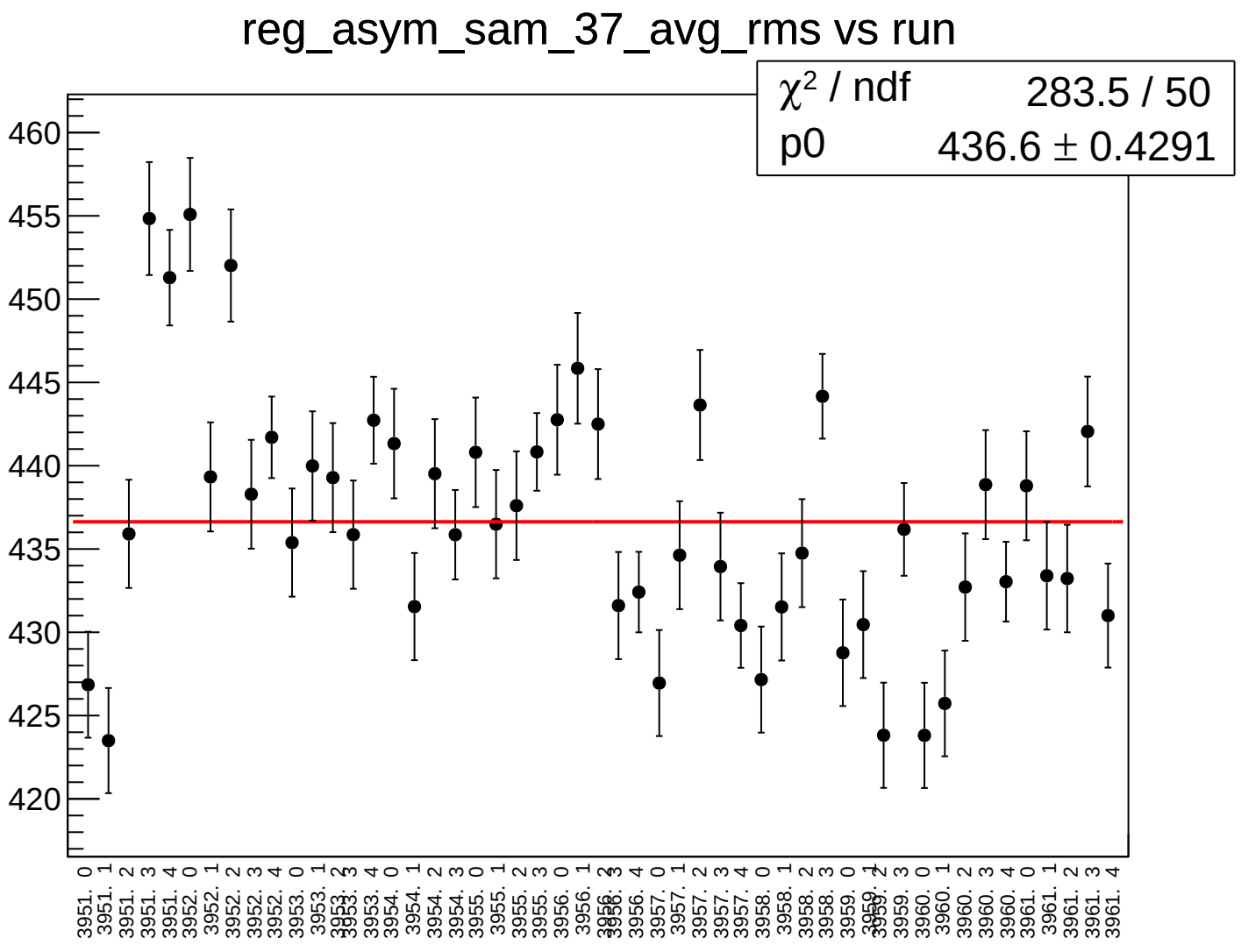

asym_sam_26_avg_correction_mean vs run
χ² / ndf 34.83 / 50
p0 −3293 ± 3445
pull
Entries 51
Mean −103
Std Dev 125.7


pull1D
Entries 51
Mean 0.0257
Std Dev 0.826


asym_sam_26_avg_correction_rms vs run
χ^2 / ndf 602.7 / 50
p0 2478 ± 2.436
2600
2550
2500
2450
2400
2350
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_sam_37_avg_mean vs run
χ² / ndf 51.45 / 50
p0 −461.9 ± 606.8
pull
Entries 51
Mean 123
Std Dev 40.69


pull1D
Entries 51
Mean −0.001851
Std Dev 1.004


reg_asym_sam_37_avg_rms vs run
χ² / ndf 283.5 / 50
p0 436.6 ± 0.4291
460
455
450
445
440
435
430
425
420
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
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3960. 2
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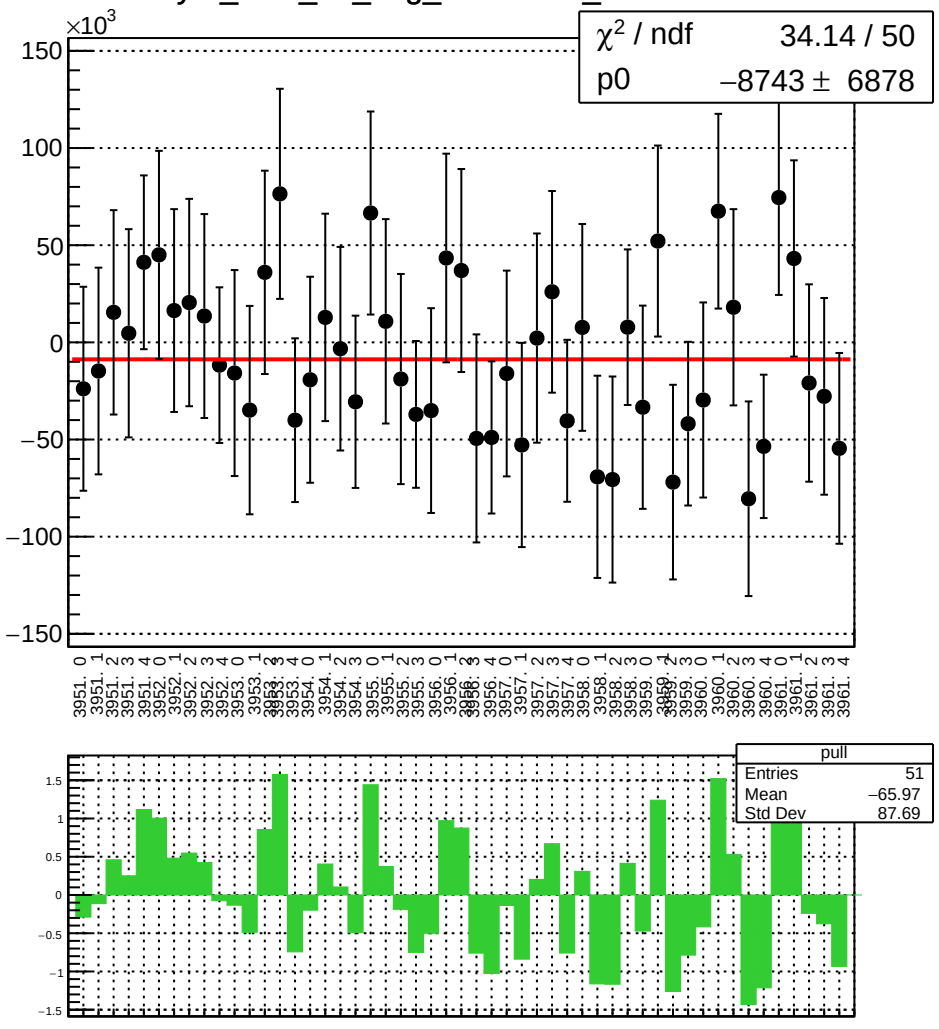
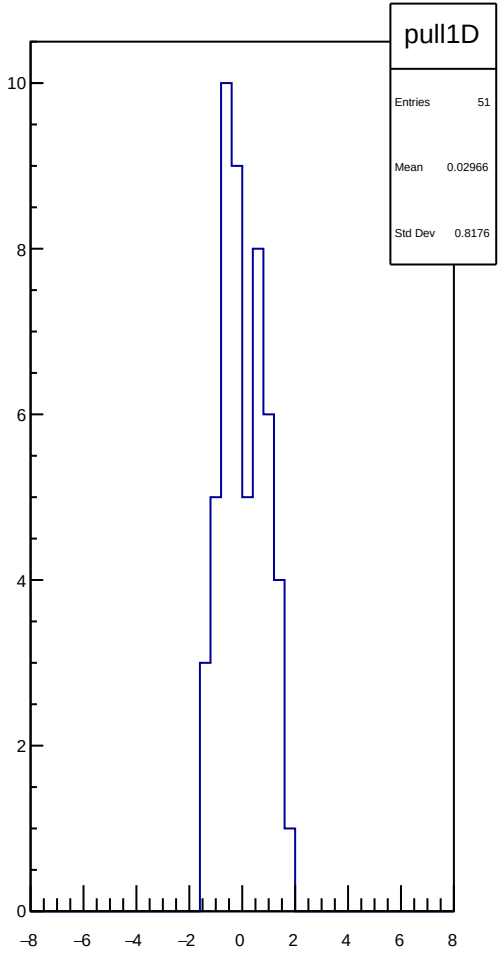
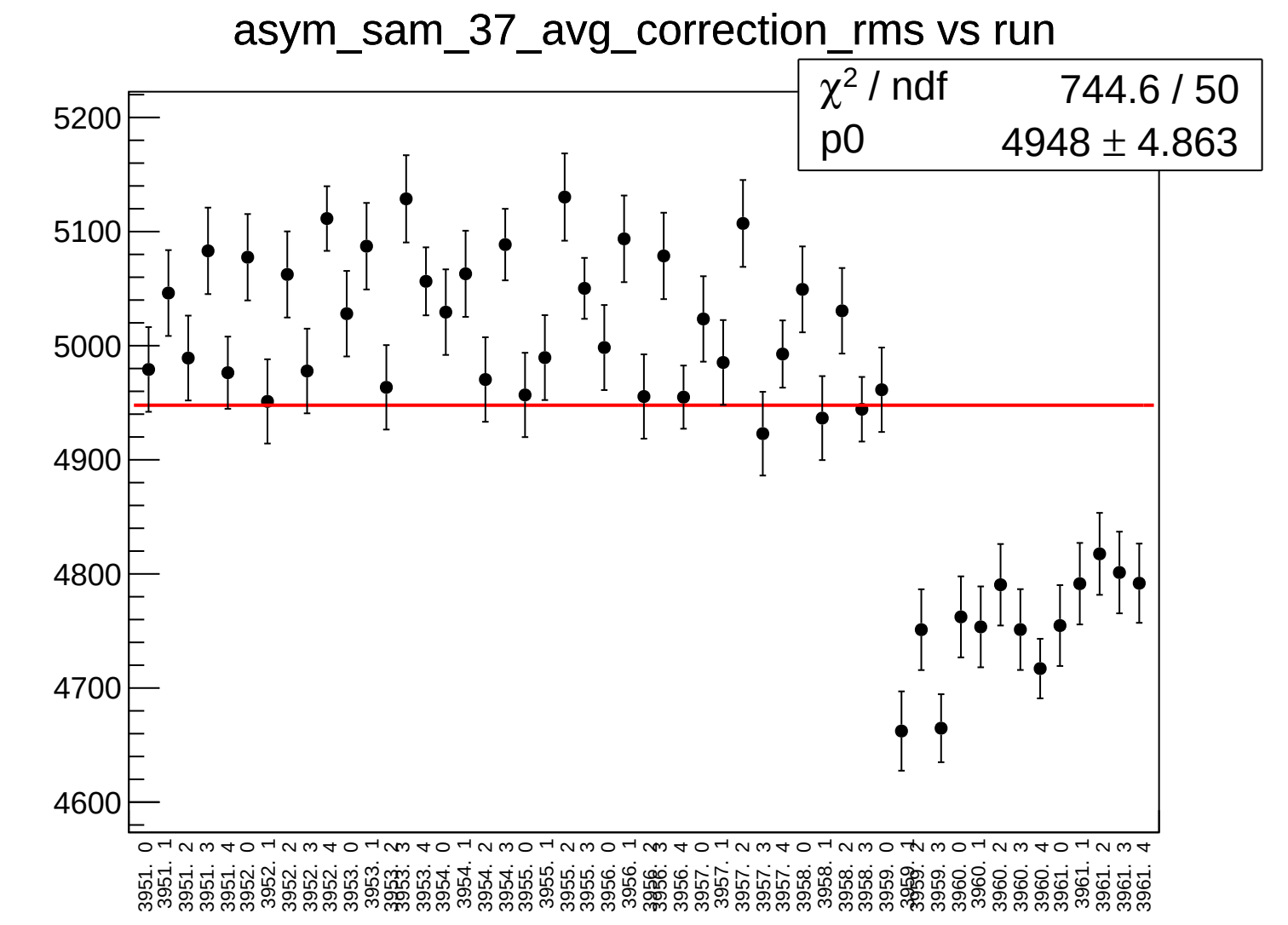
3961. 1
3961. 2
3961. 3
3961. 4


asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 34.14 / 50
p0 −8743 ± 6878
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean −65.97
Std Dev 87.69
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.02966
Std Dev 0.8176
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 744.6 / 50
p0 4948 ± 4.863
5200
5100
5000
4900
4800
4700
4600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
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3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
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3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
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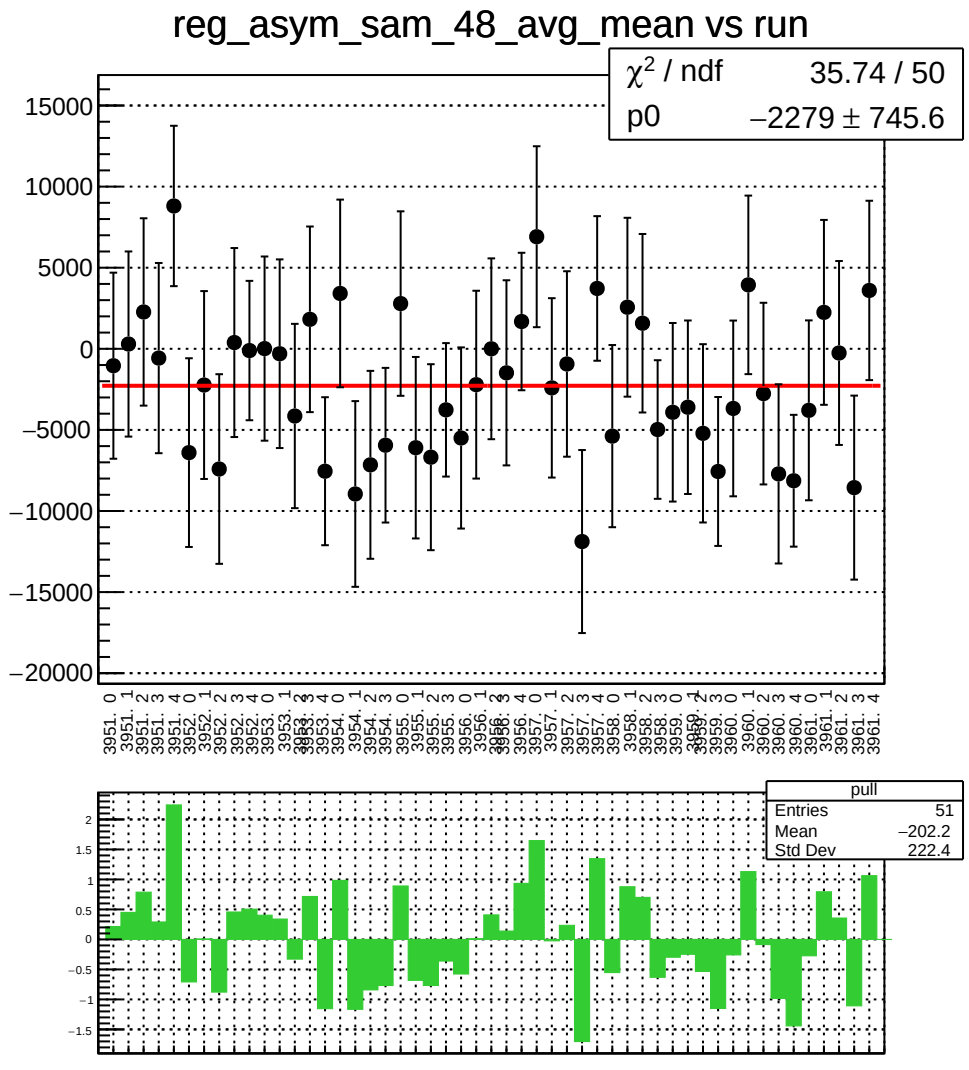
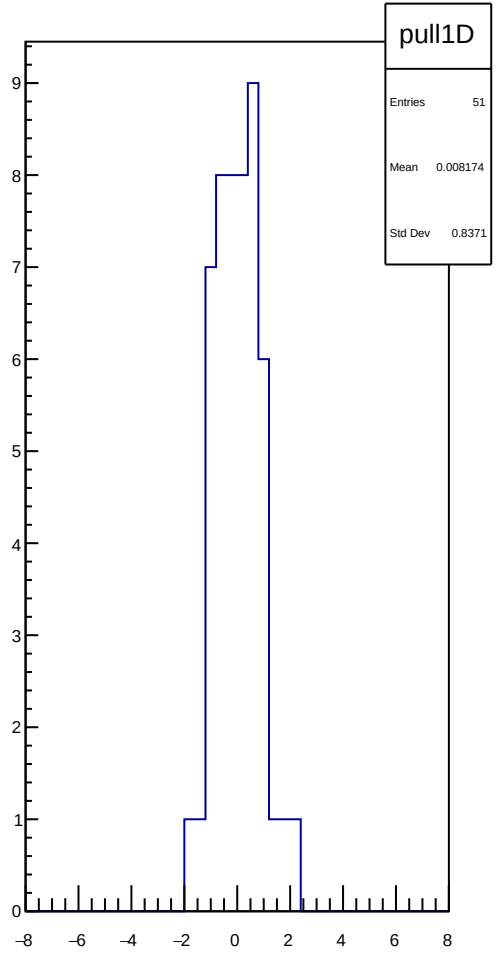
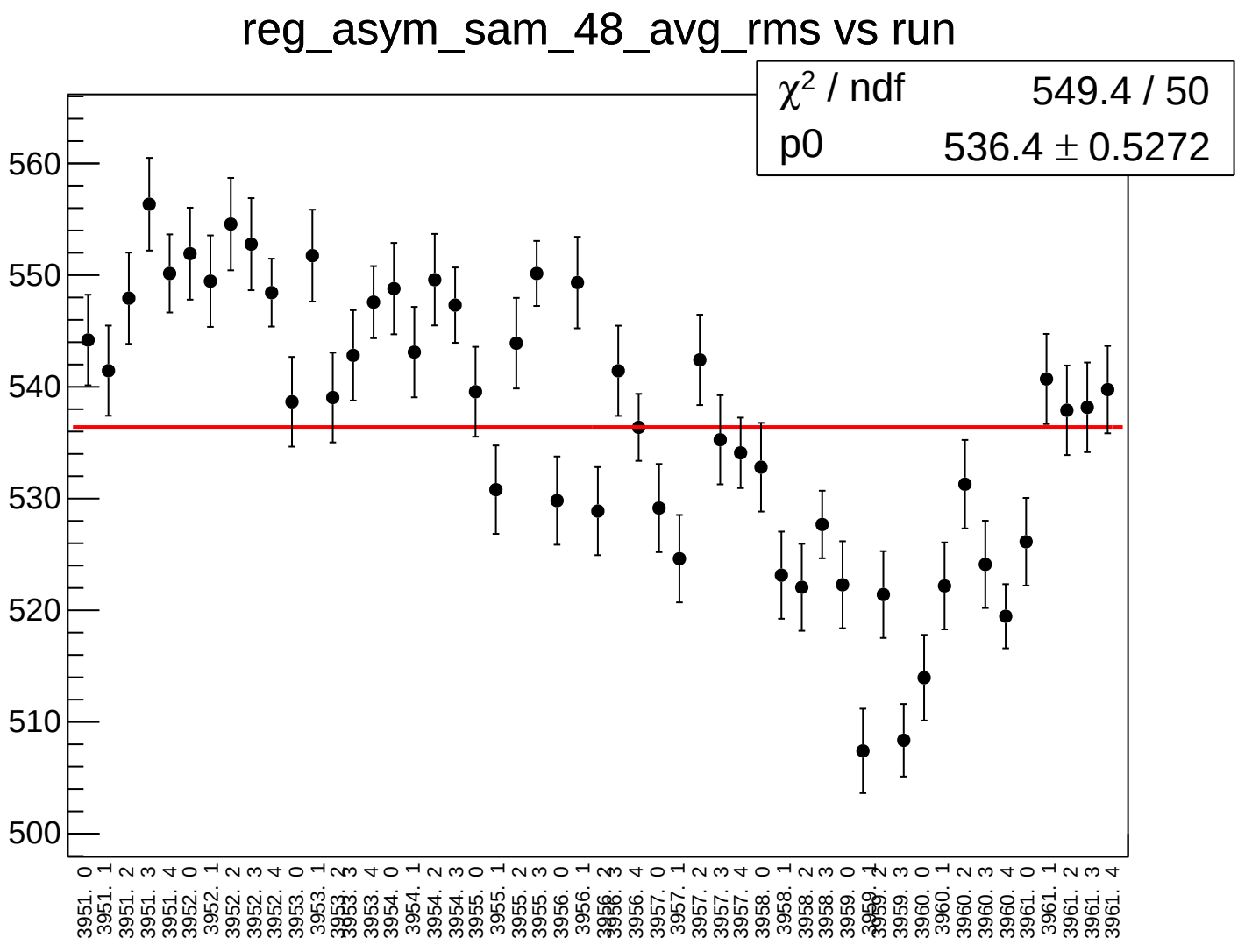
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_sam_48_avg_mean vs run
χ² / ndf 35.74 / 50
p0 −2279 ± 745.6
pull
Entries 51
Mean −202.2
Std Dev 222.4


pull1D
Entries 51
Mean 0.008174
Std Dev 0.8371


reg_asym_sam_48_avg_rms vs run
χ² / ndf 549.4 / 50
p0 536.4 ± 0.5272
560
550
540
530
520
510
500
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
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3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
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3958. 2
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3959. 1
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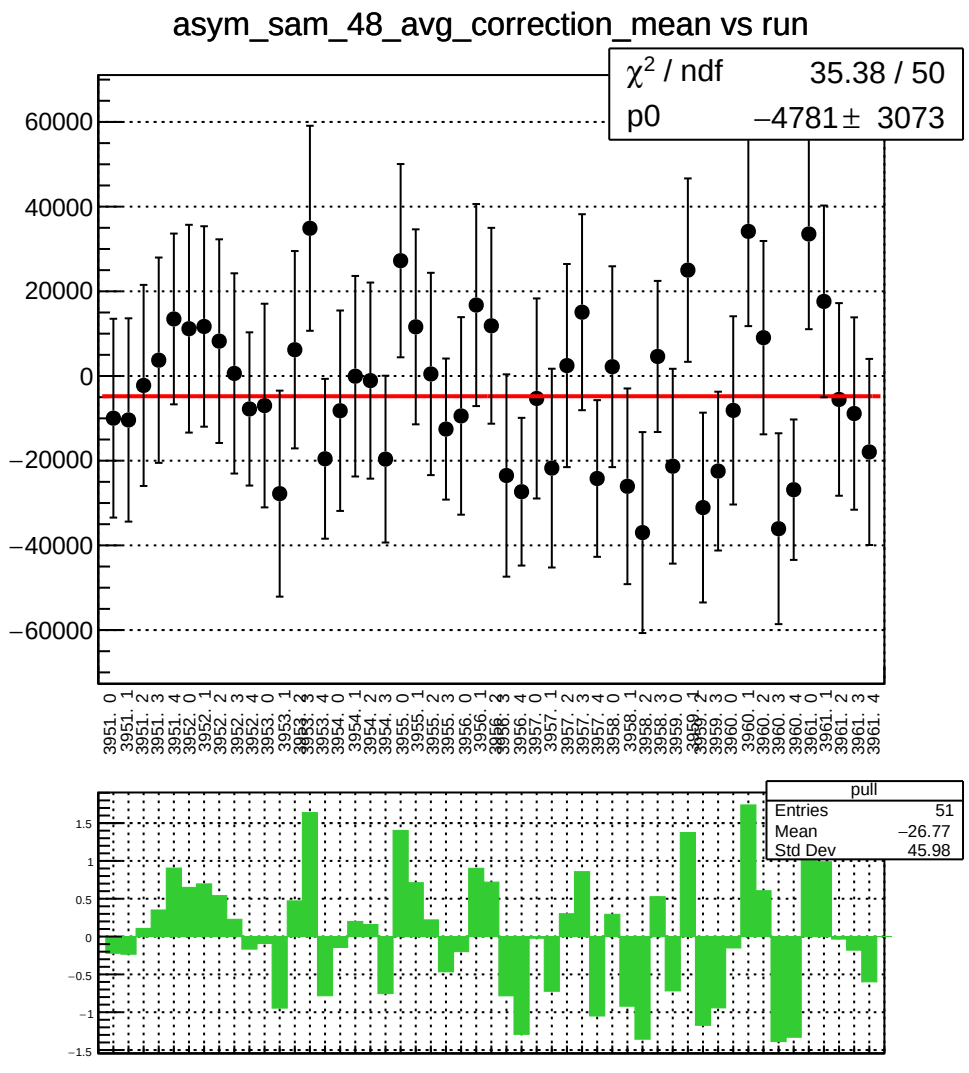
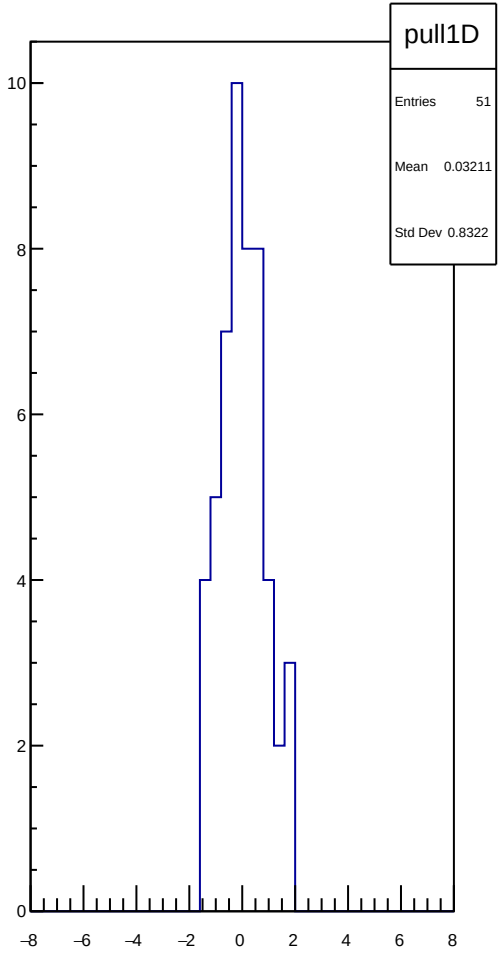
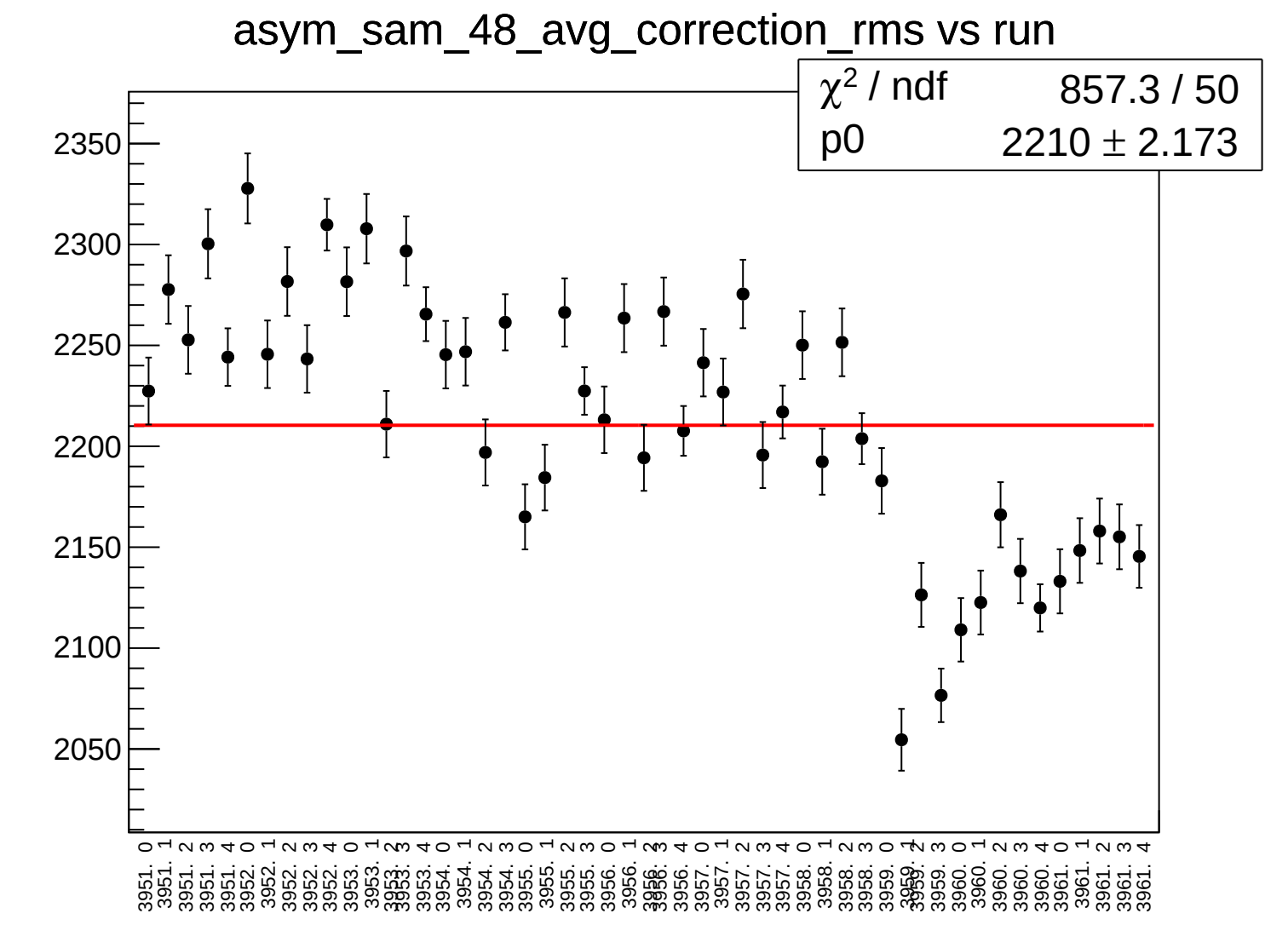
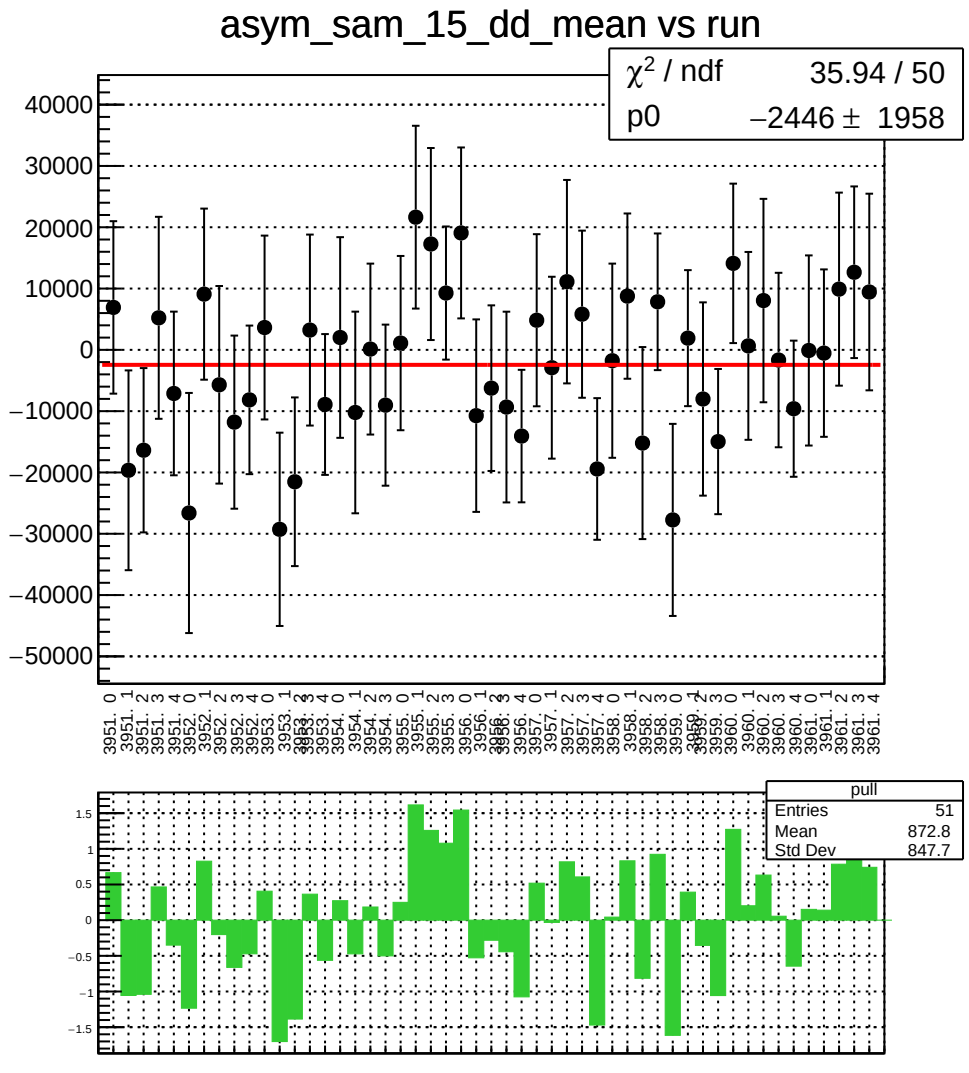
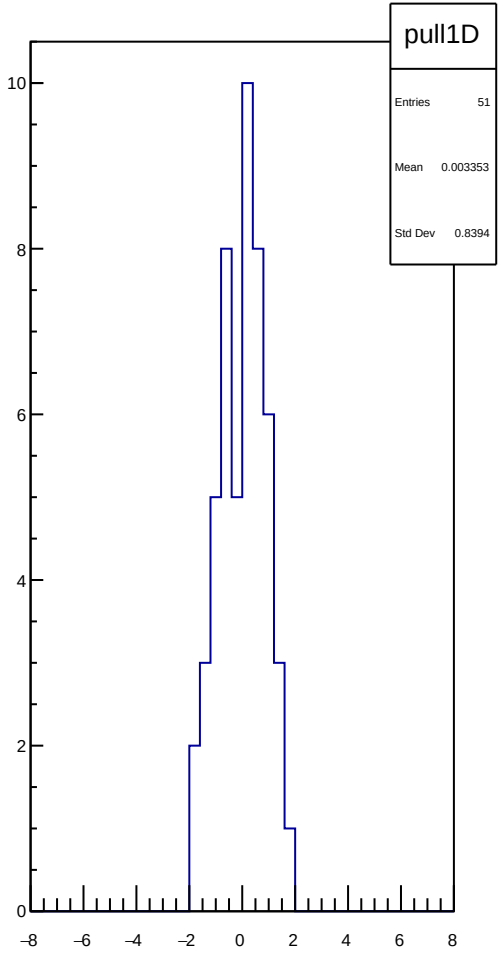
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

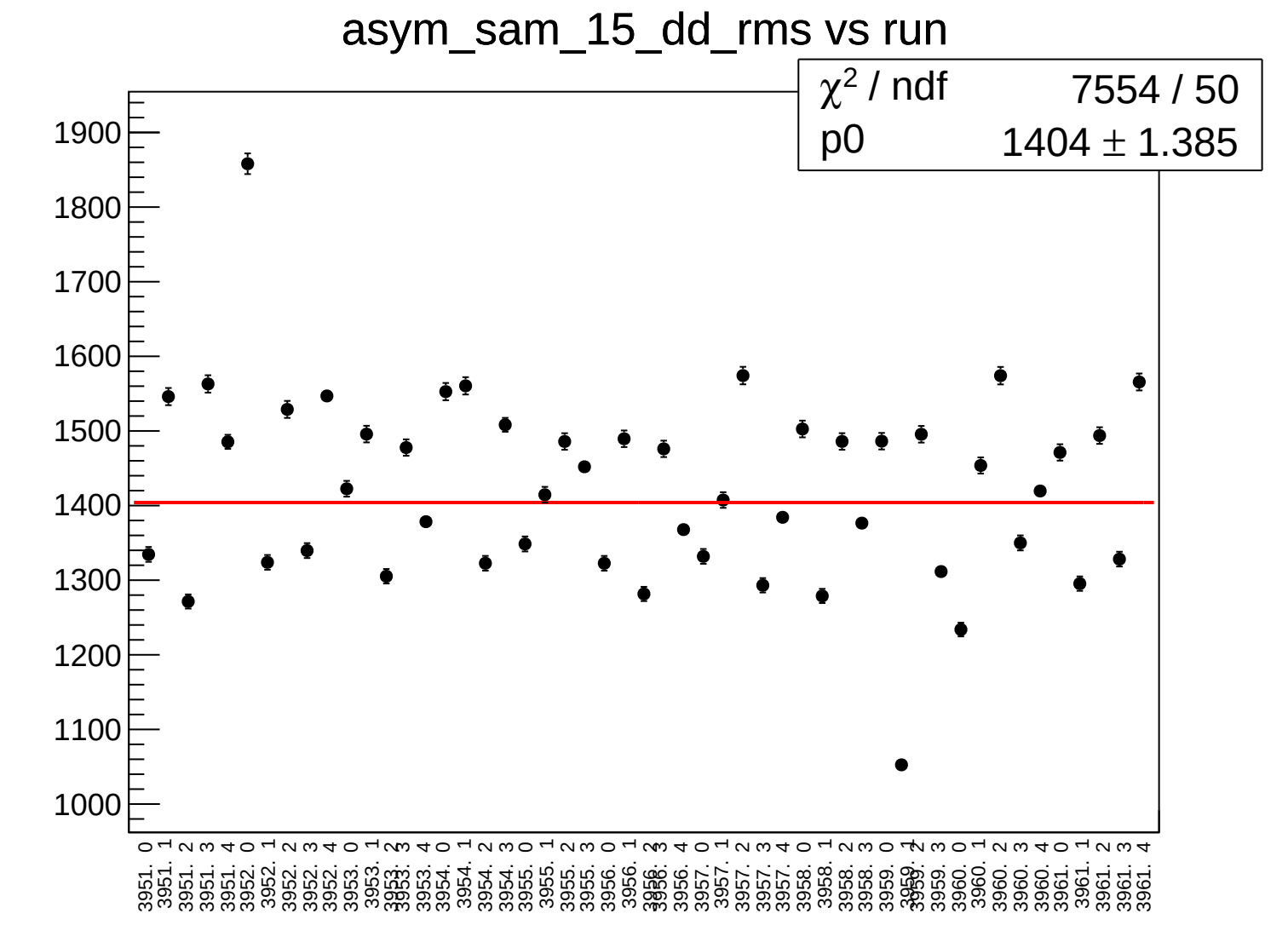

asym_sam_48_avg_correction_mean vs run
χ² / ndf 35.38 / 50
p0 −4781 ± 3073
pull
Entries 51
Mean −26.77
Std Dev 45.98

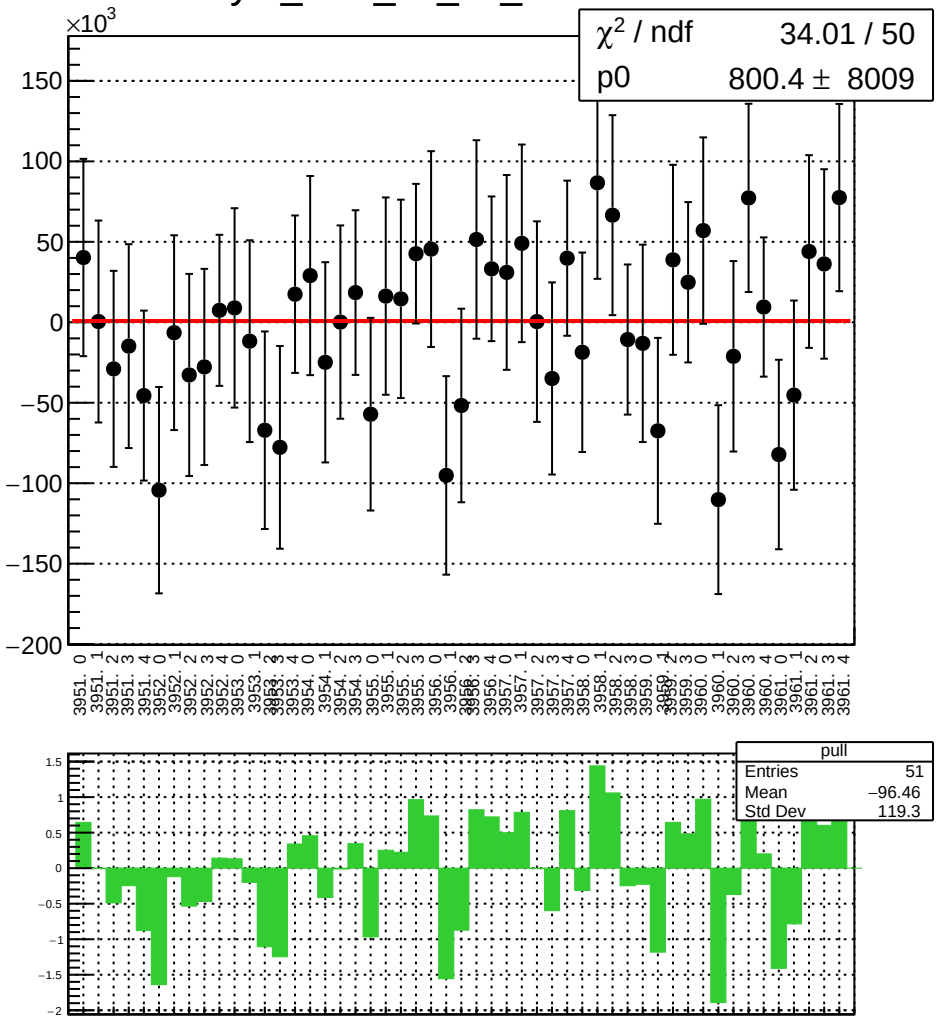

pull1D
Entries 51
Mean 0.03211
Std Dev 0.8322

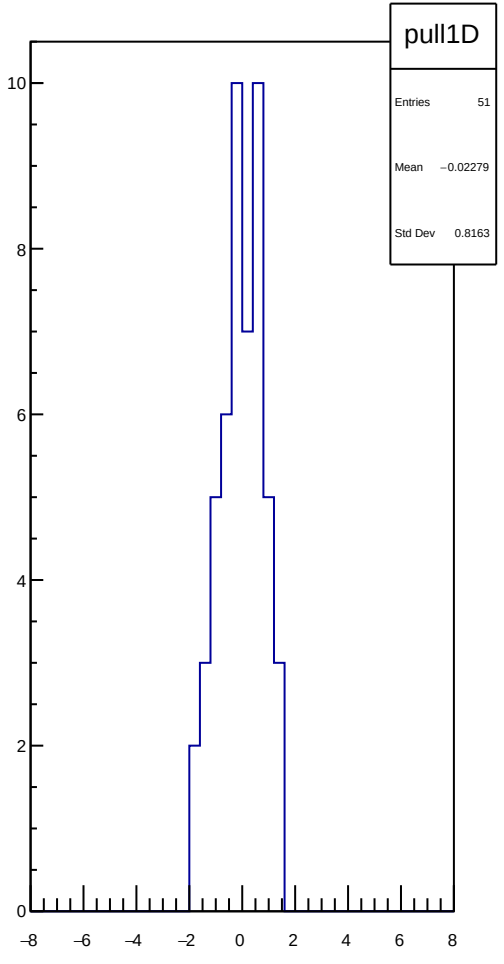

asym_sam_48_avg_correction_rms vs run
χ² / ndf 857.3 / 50
p0 2210 ± 2.173
2350
2300
2250
2200
2150
2100
2050
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

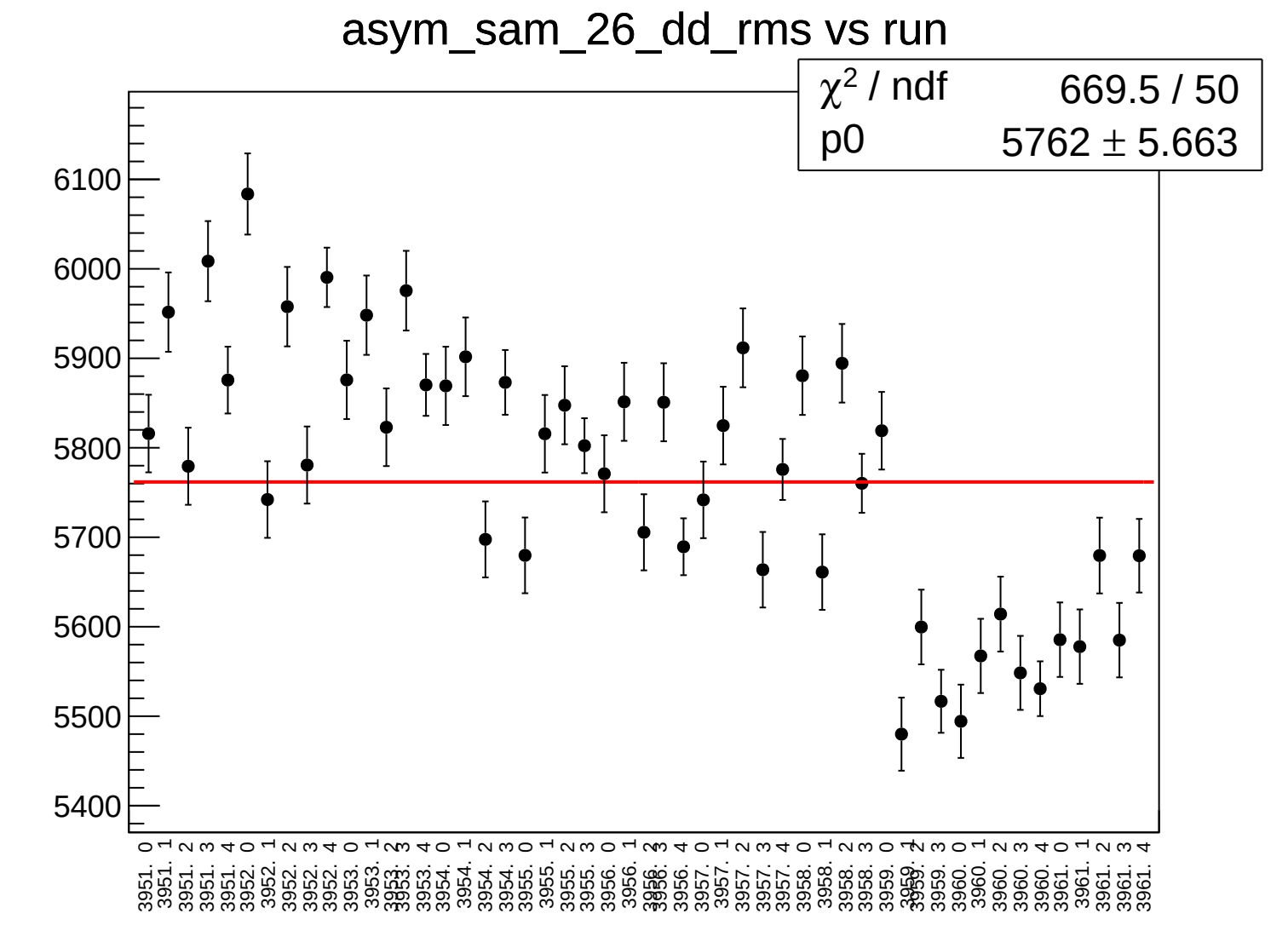

asym_sam_15_dd_mean vs run
χ² / ndf 35.94 / 50
p0 −2446 ± 1958
pull
Entries 51
Mean 872.8
Std Dev 847.7

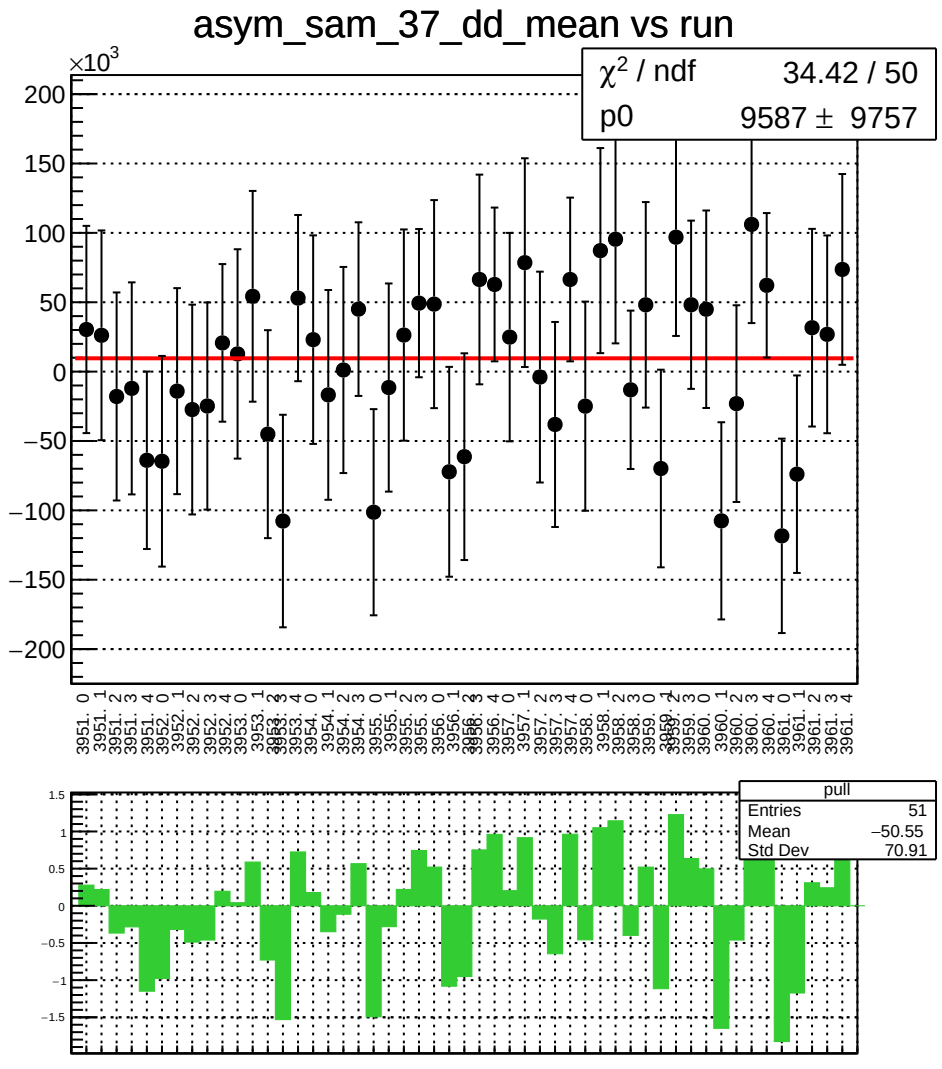

pull1D
Entries 51
Mean 0.003353
Std Dev 0.8394

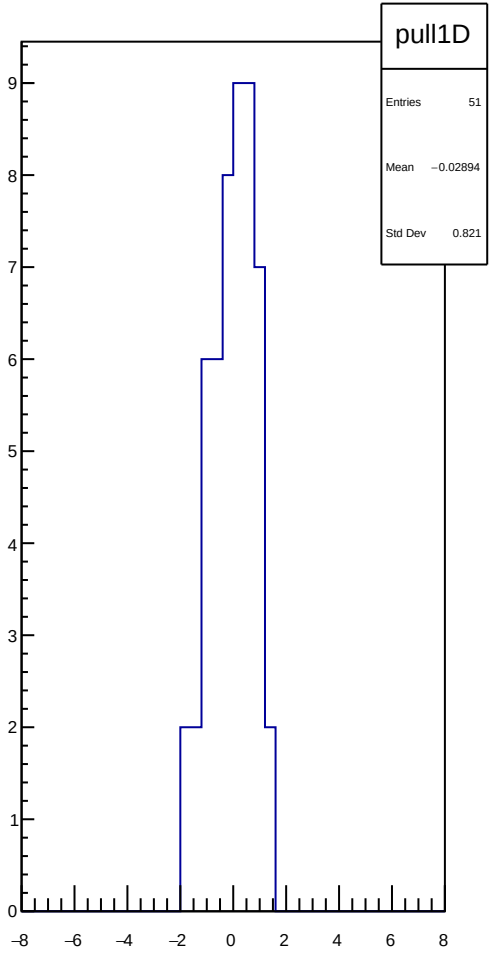

asym_sam_15_dd_rms vs run
χ^2 / ndf 7554 / 50
p0 1404 ± 1.385
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

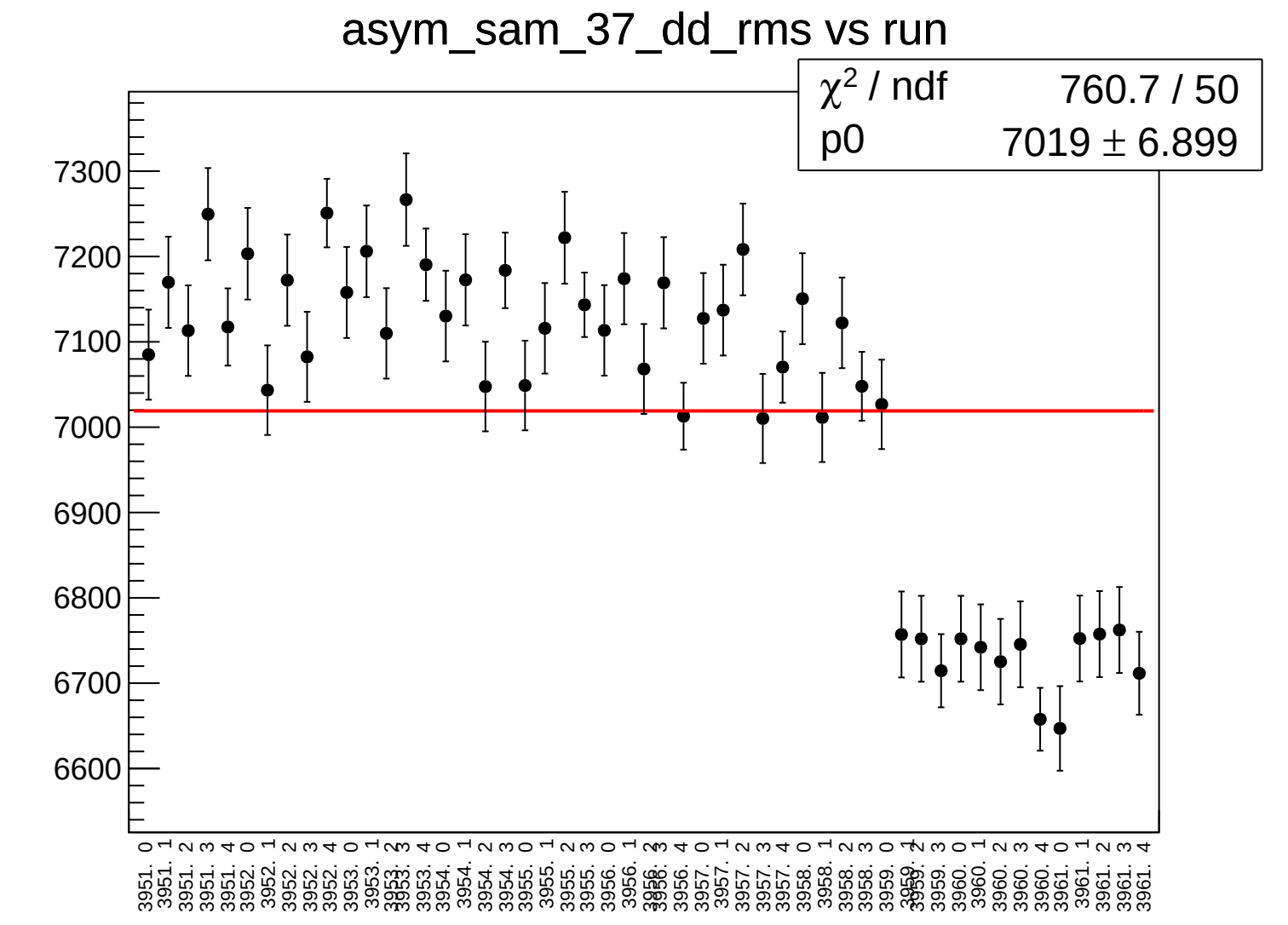

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 34.01 / 50
p0 800.4 ± 8009
150
100
50
0
−50
−100
−150
−200
pull
Entries 51
Mean −96.46
Std Dev 119.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

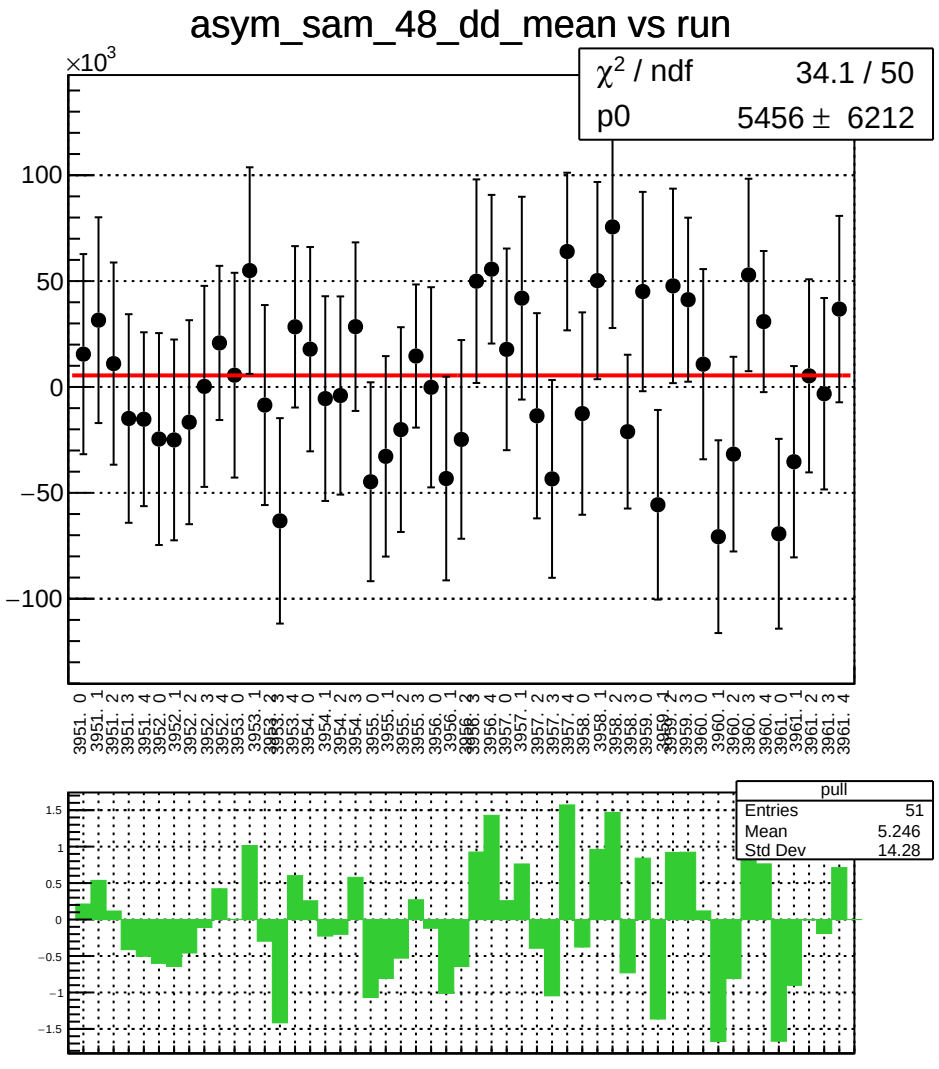

pull1D
Entries 51
Mean −0.02279
Std Dev 0.8163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

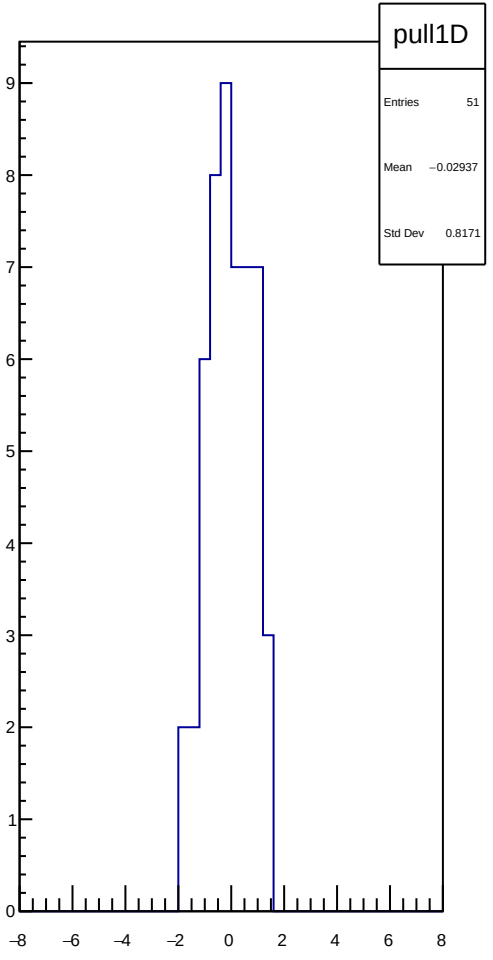

asym_sam_26_dd_rms vs run
χ^2 / ndf 669.5 / 50
p0 5762 ± 5.663
6100
6000
5900
5800
5700
5600
5500
5400
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

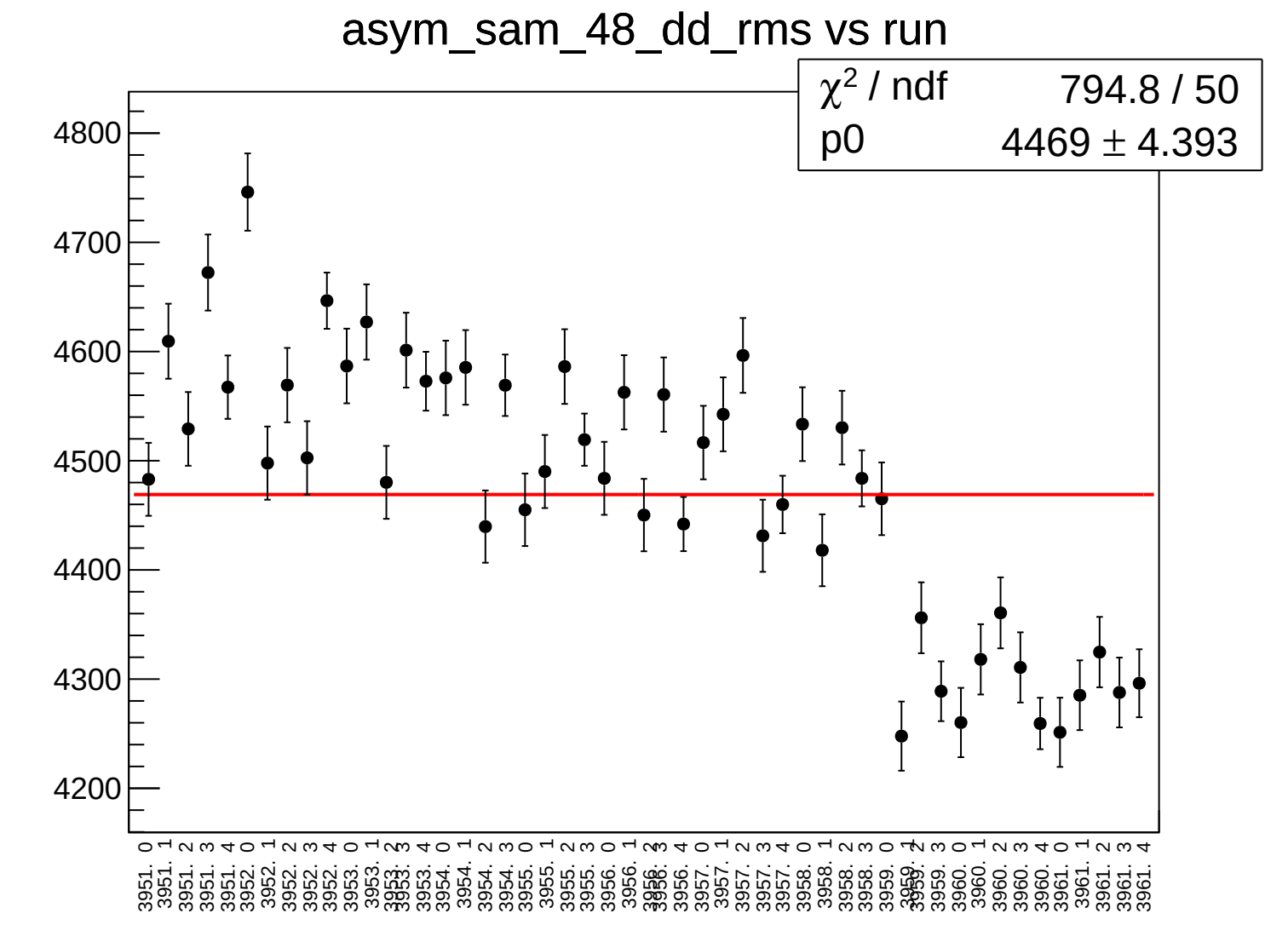

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 34.42 / 50
p0 9587 ± 9757
pull
Entries 51
Mean −50.55
Std Dev 70.91

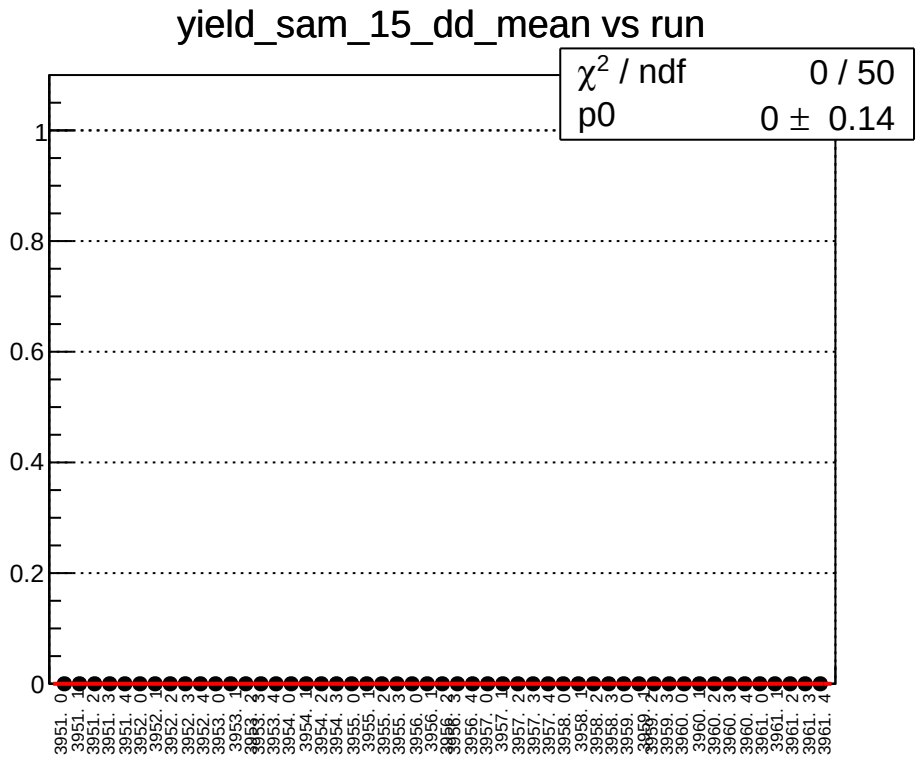

pull1D
Entries 51
Mean −0.02894
Std Dev 0.821

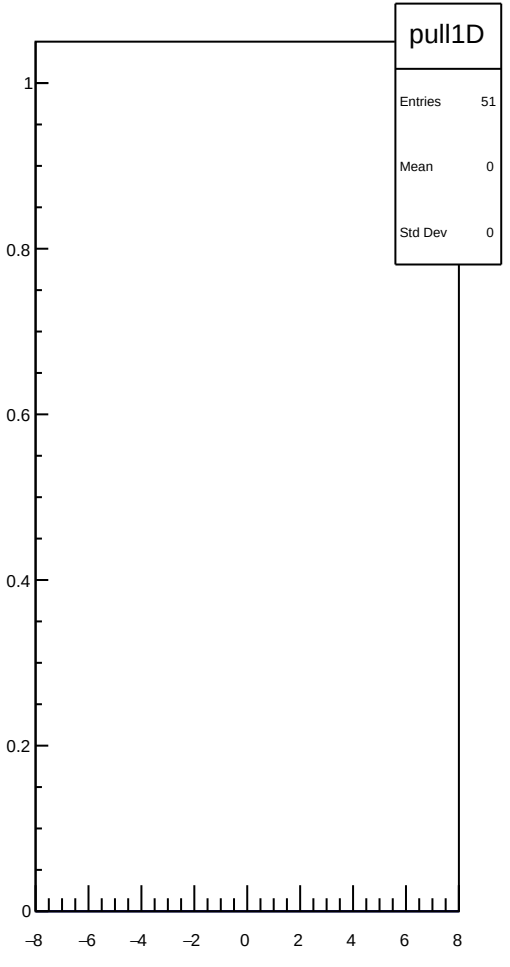

asym_sam_37_dd_rms vs run
χ² / ndf 760.7 / 50
p0 7019 ± 6.899
7300
7200
7100
7000
6900
6800
6700
6600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

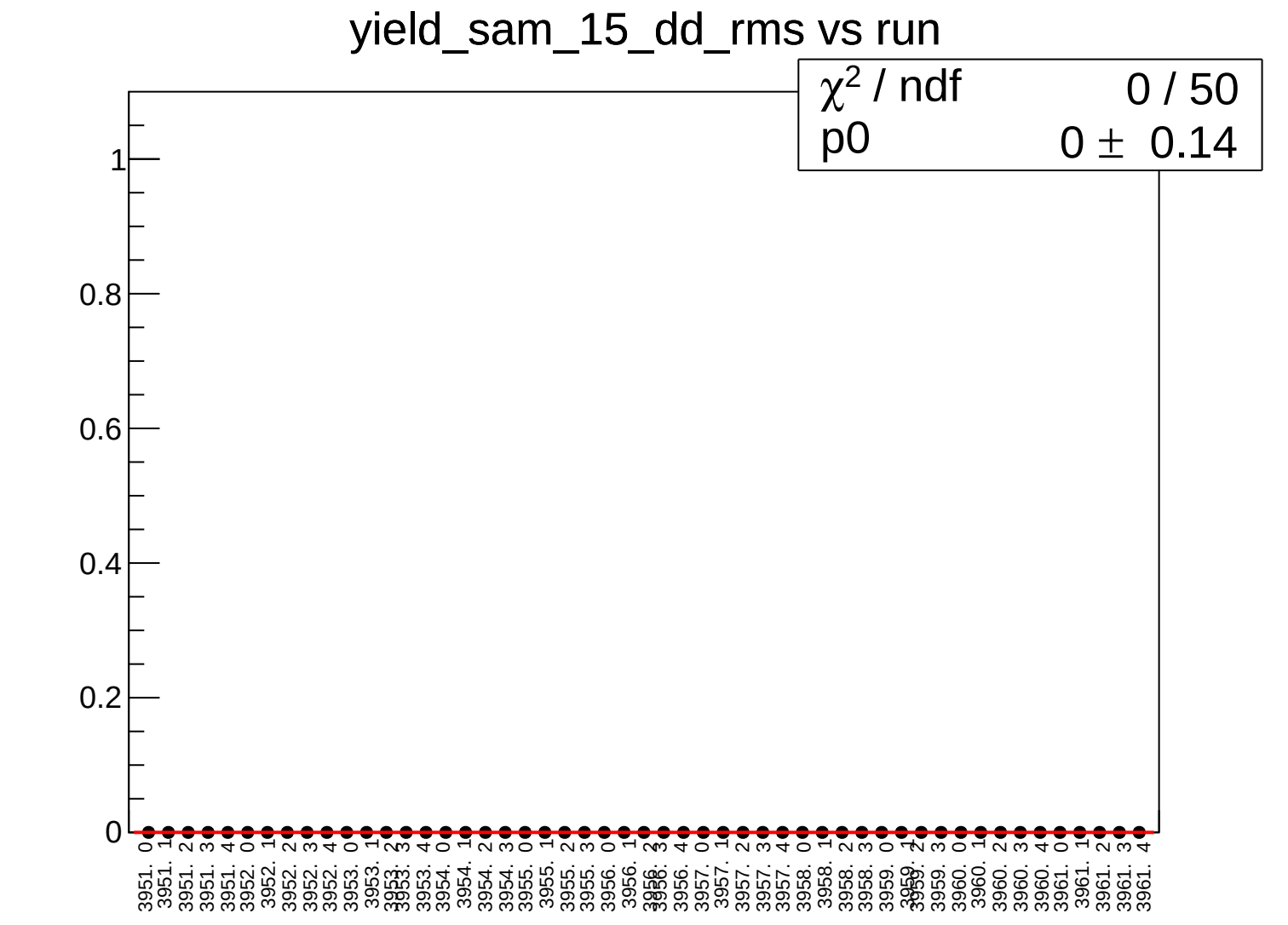

asym_sam_48_dd_mean vs run
χ² / ndf 34.1 / 50
p0 5456 ± 6212
×10³
100
50
0
−50
−100
pull
Entries 51
Mean 5.246
Std Dev 14.28
1.5
1
0.5
0
−0.5
−1
−1.5

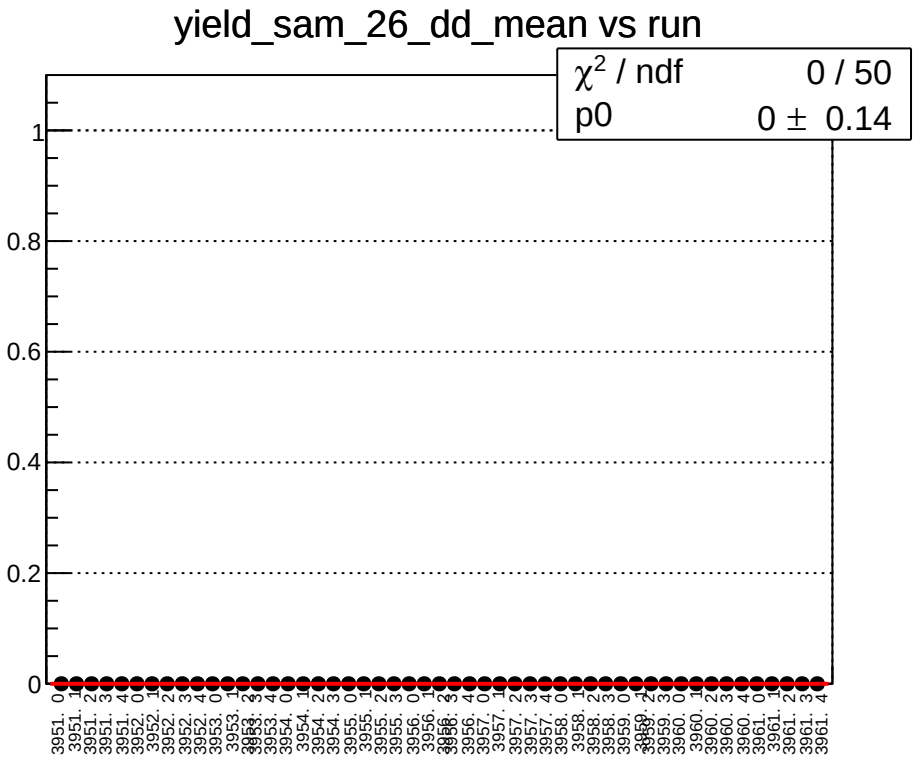

pull1D
Entries 51
Mean −0.02937
Std Dev 0.8171
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

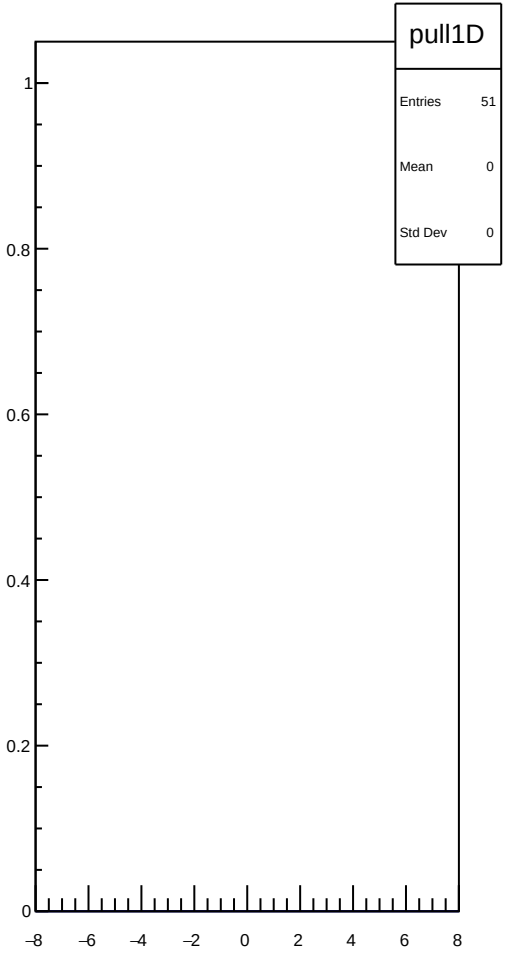

asym_sam_48_dd_rms vs run
χ² / ndf 794.8 / 50
p0 4469 ± 4.393
4800
4700
4600
4500
4400
4300
4200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

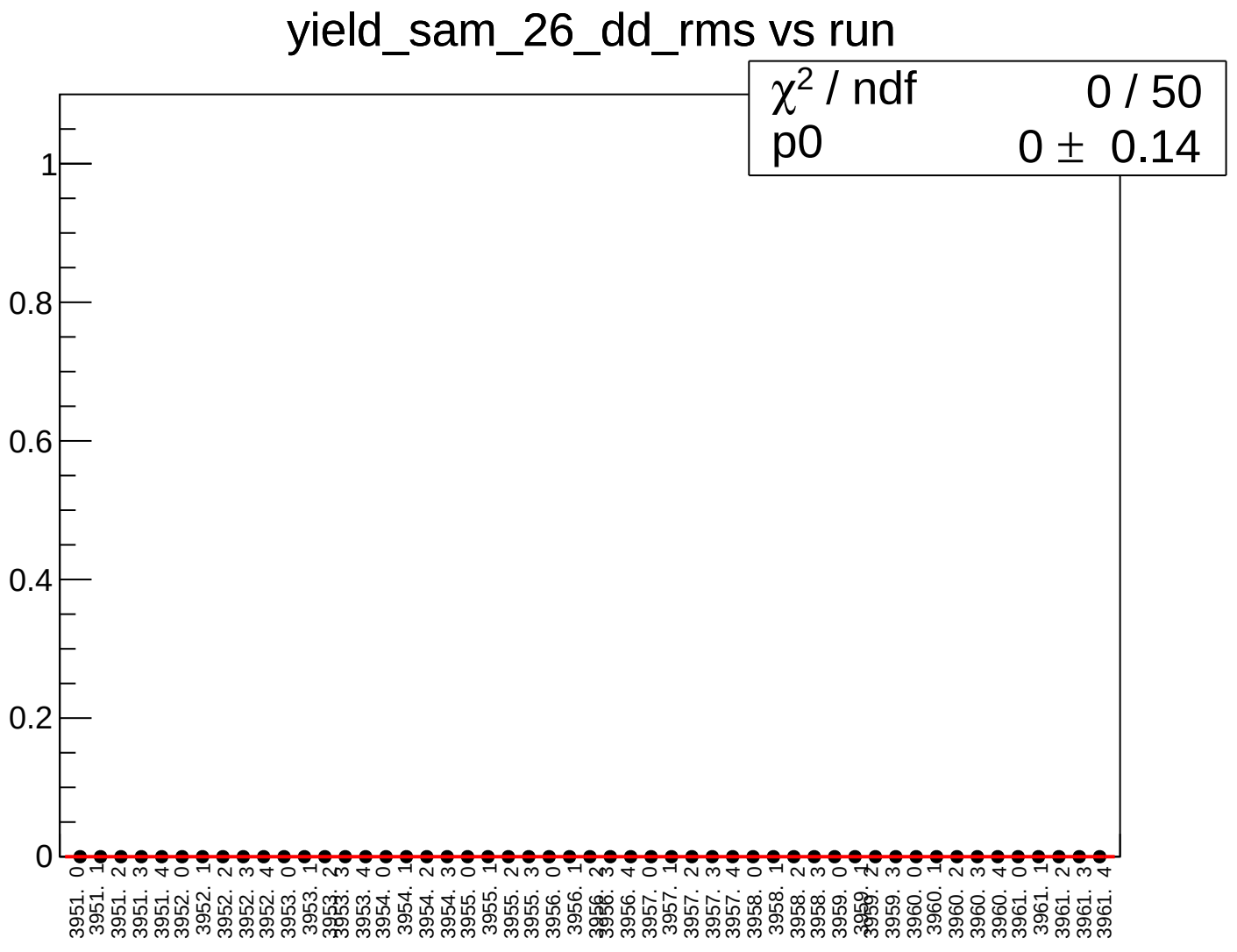

yield_sam_15_dd_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

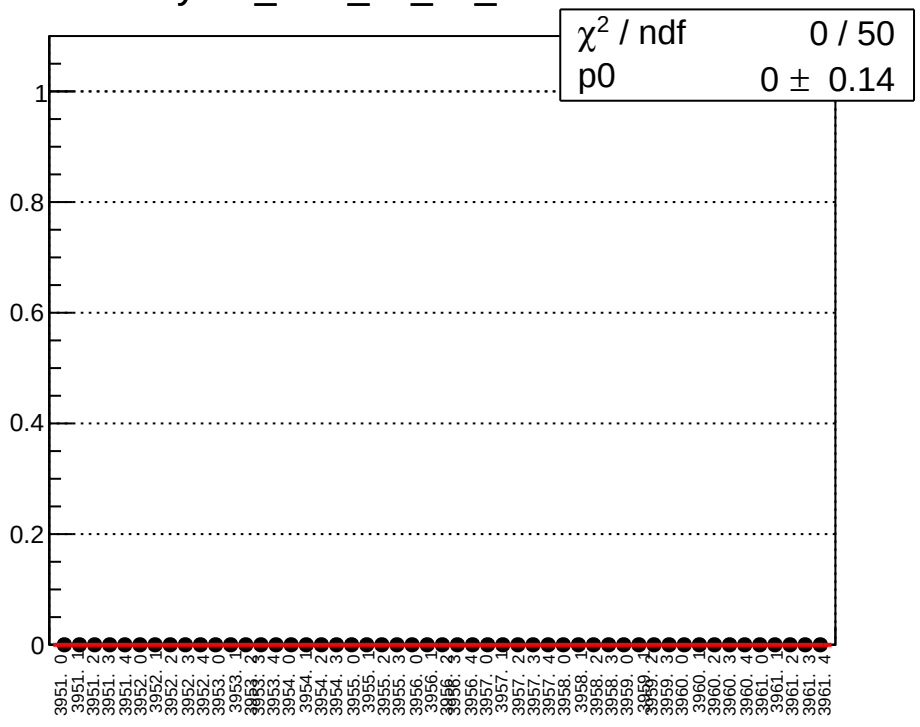

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

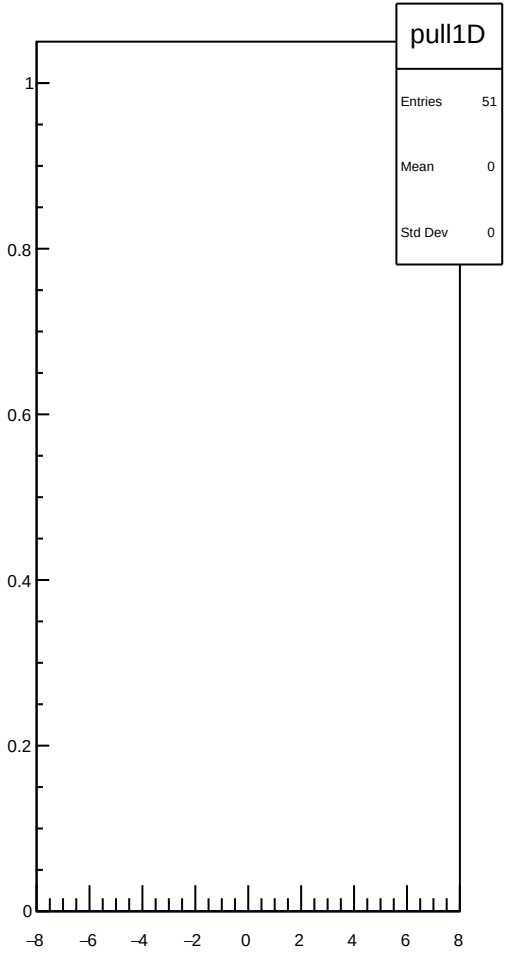

yield_sam_15_dd_rms vs run
χ^2 / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

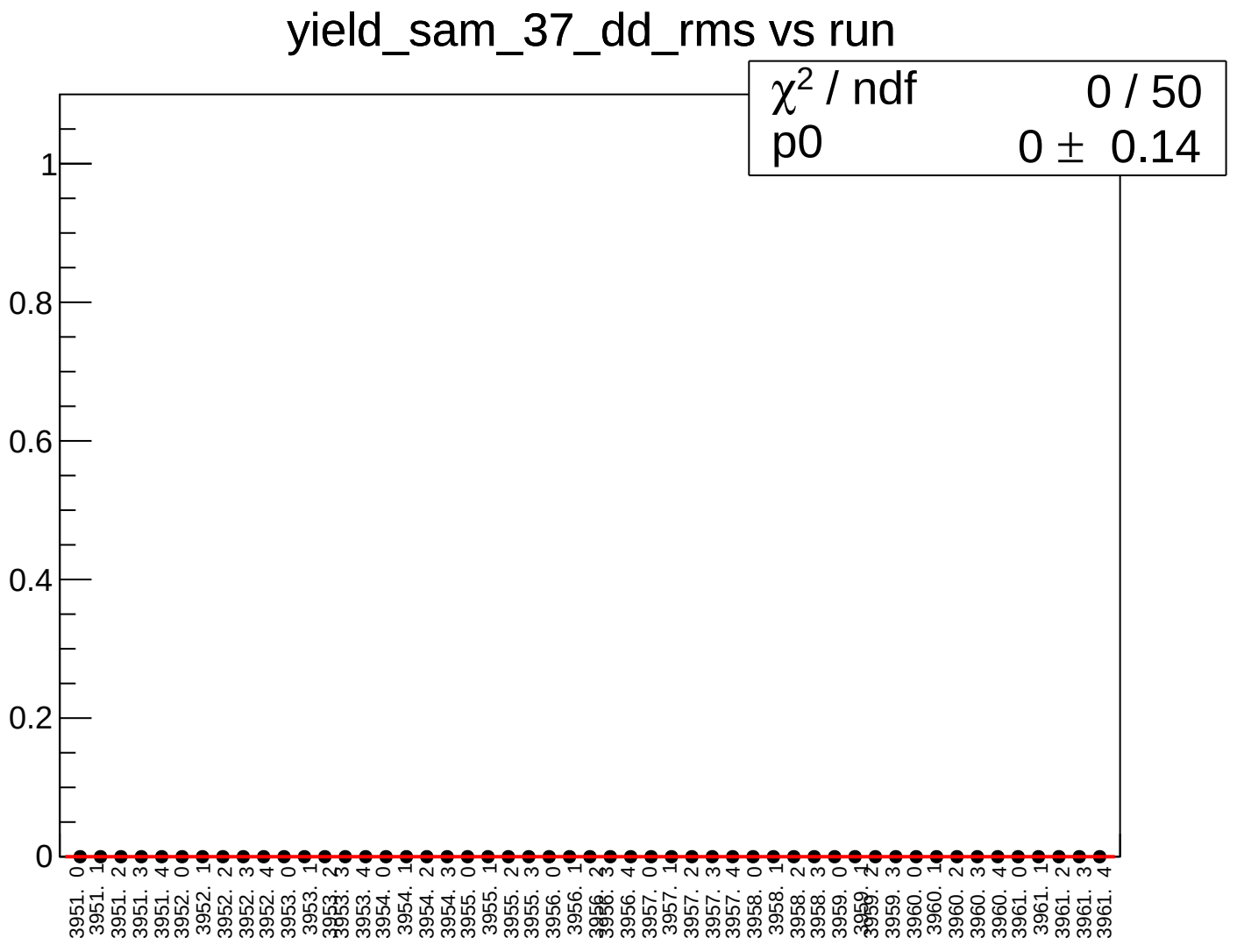

yield_sam_26_dd_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

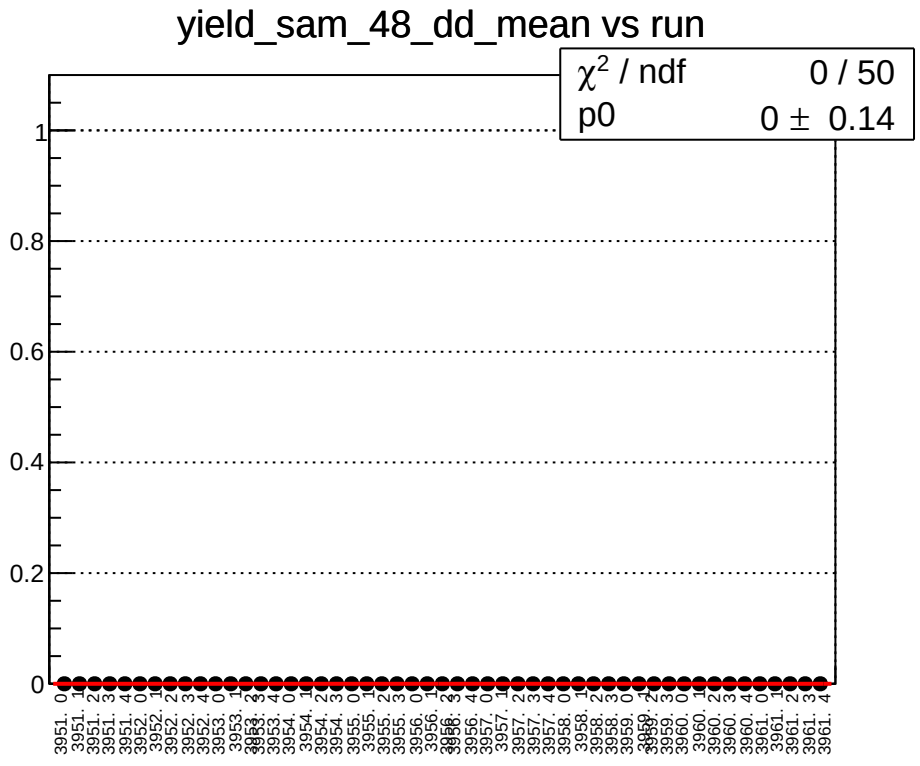

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

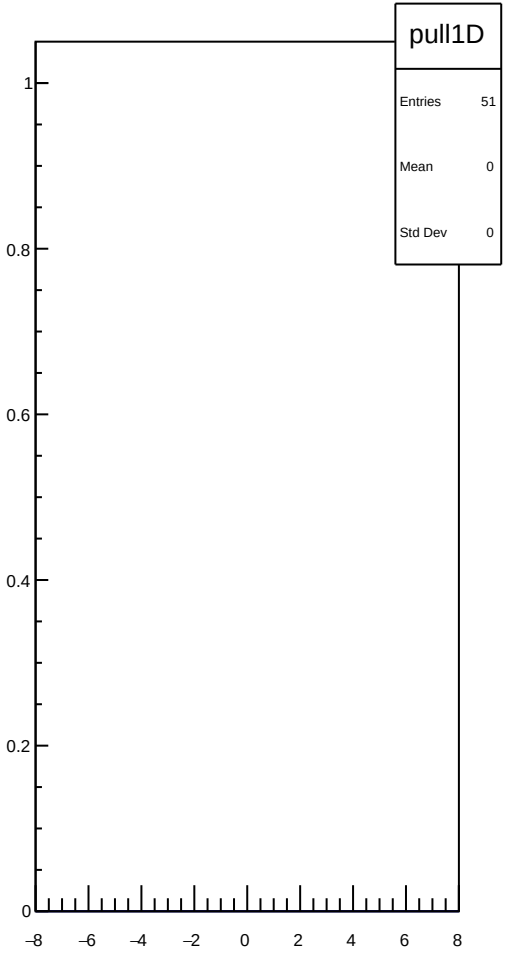

yield_sam_26_dd_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

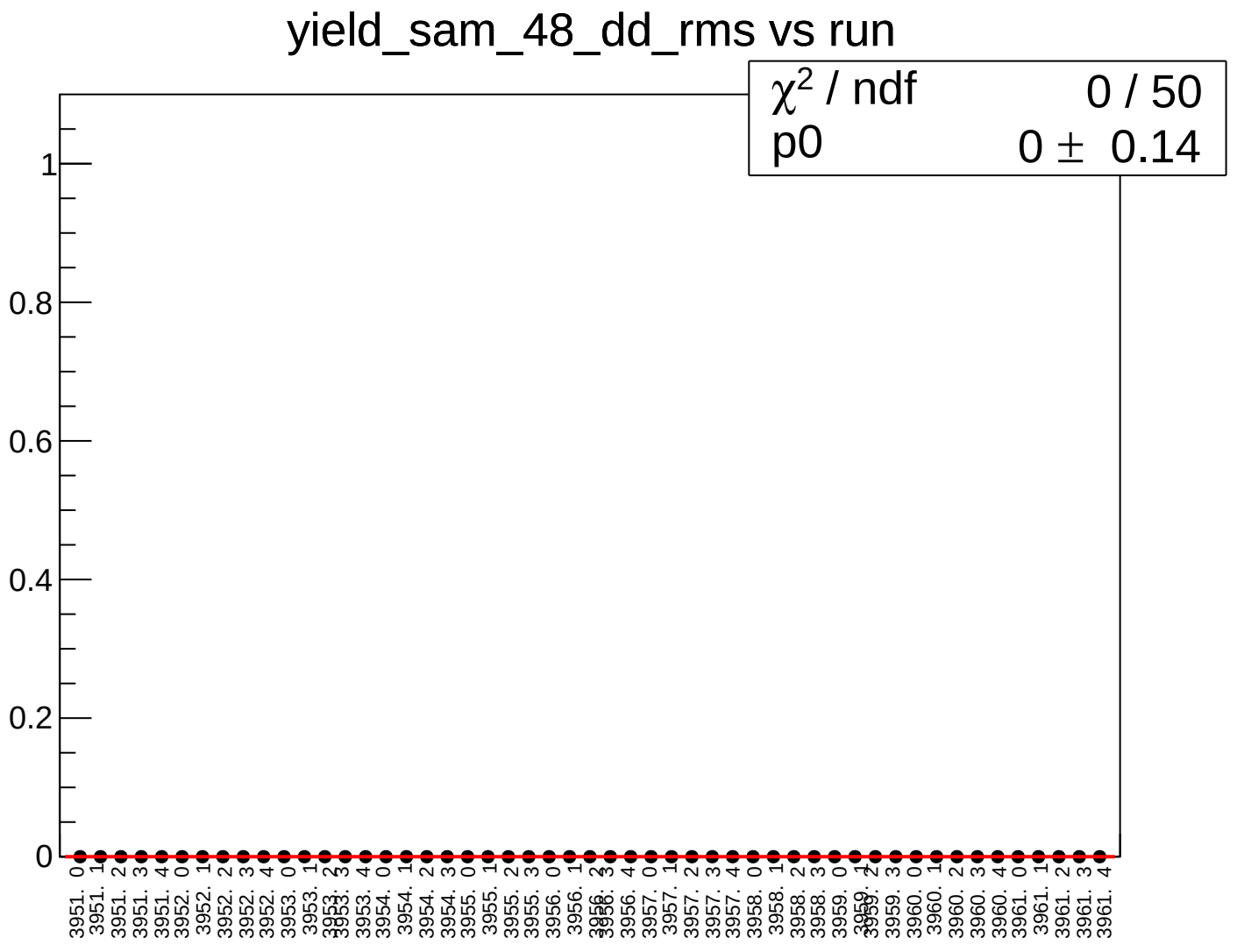

yield_sam_37_dd_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 51
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
χ^2 / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


yield_sam_48_dd_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 51
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 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
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3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
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3959. 1
3959. 2
3959. 3
3960. 0
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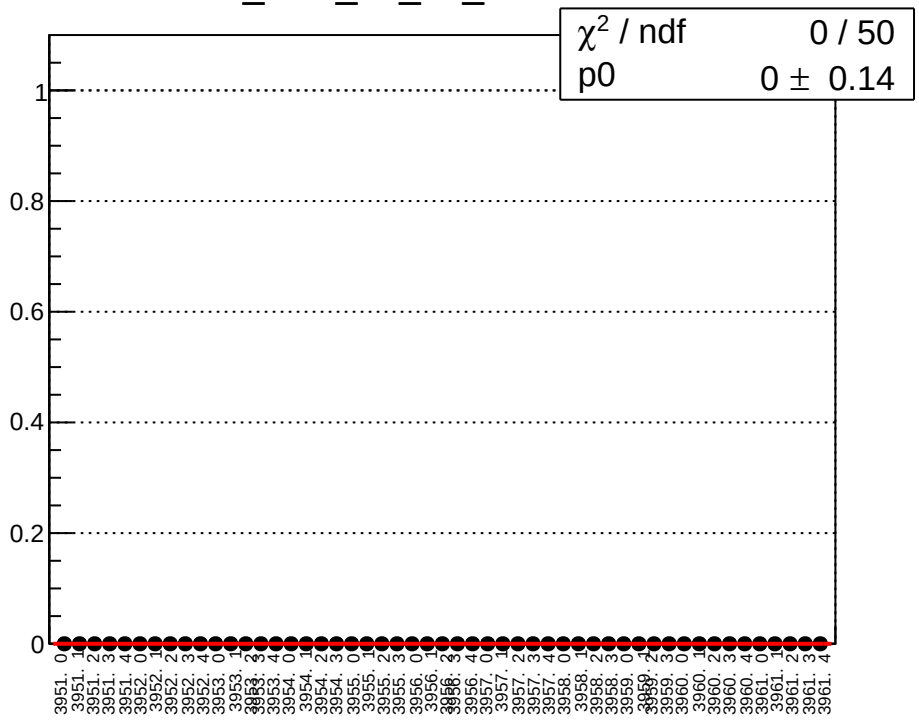
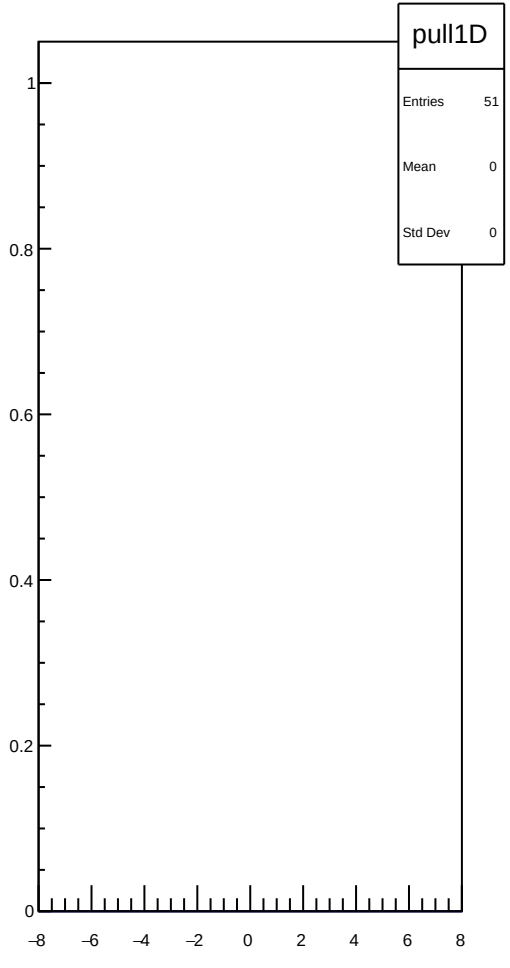
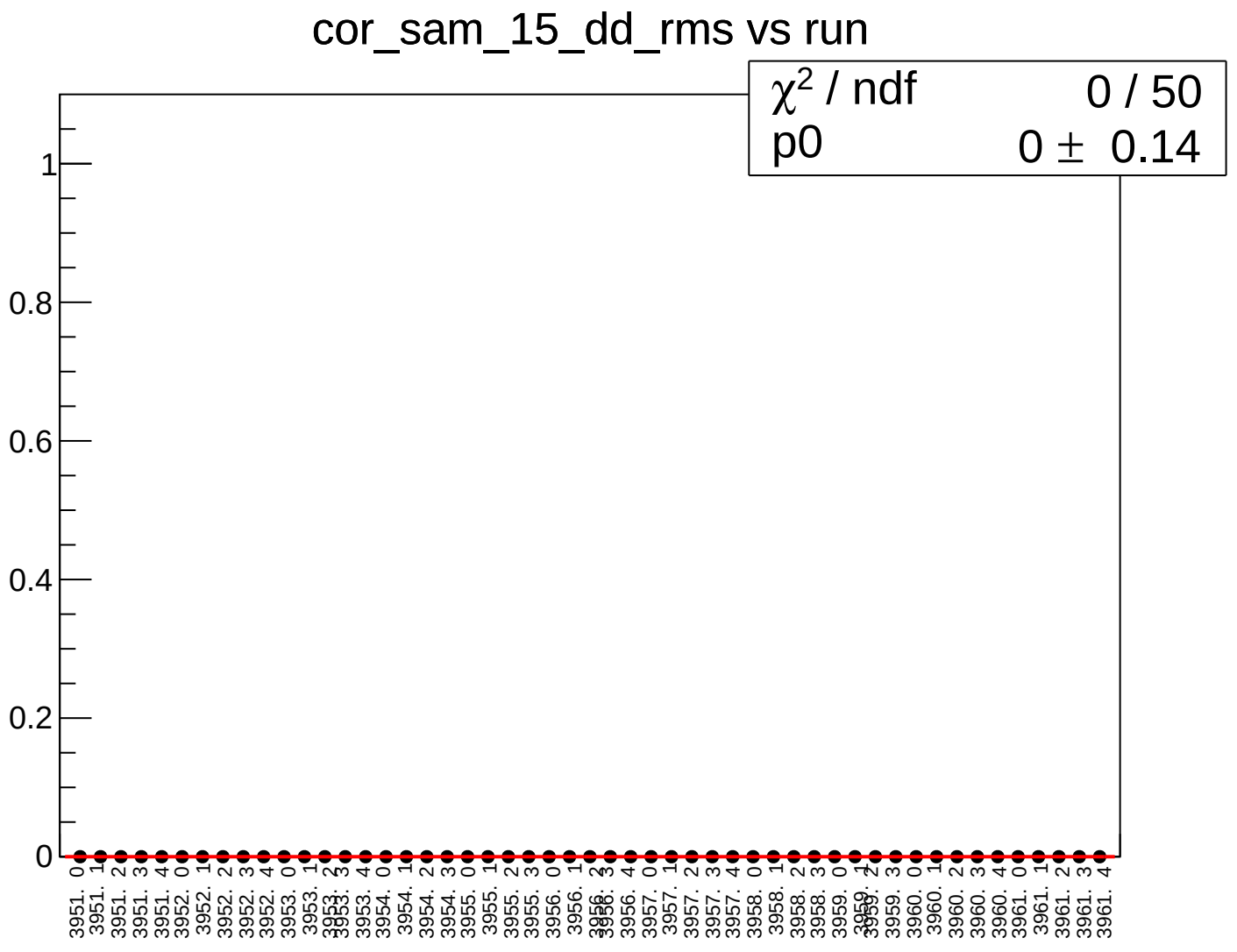
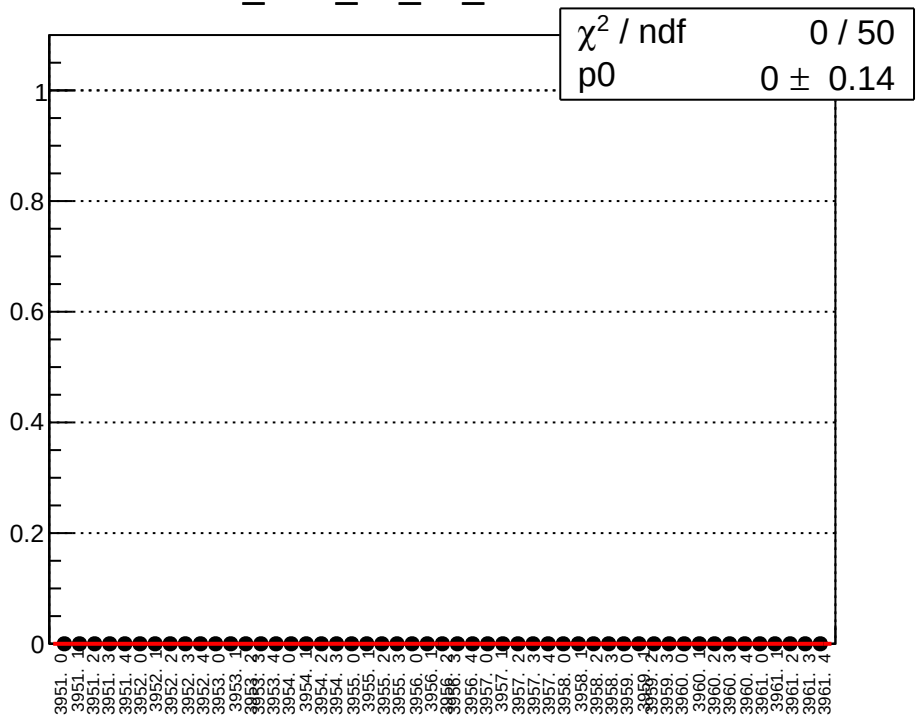
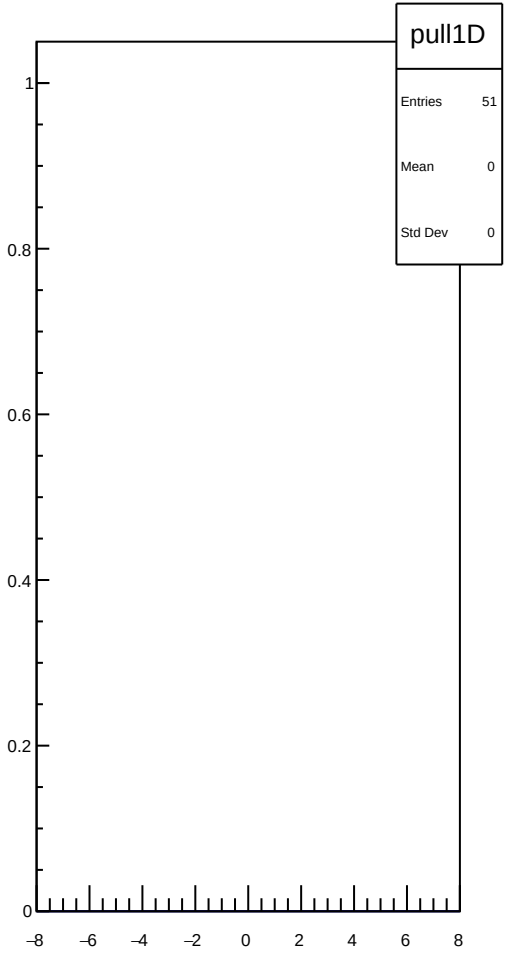
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

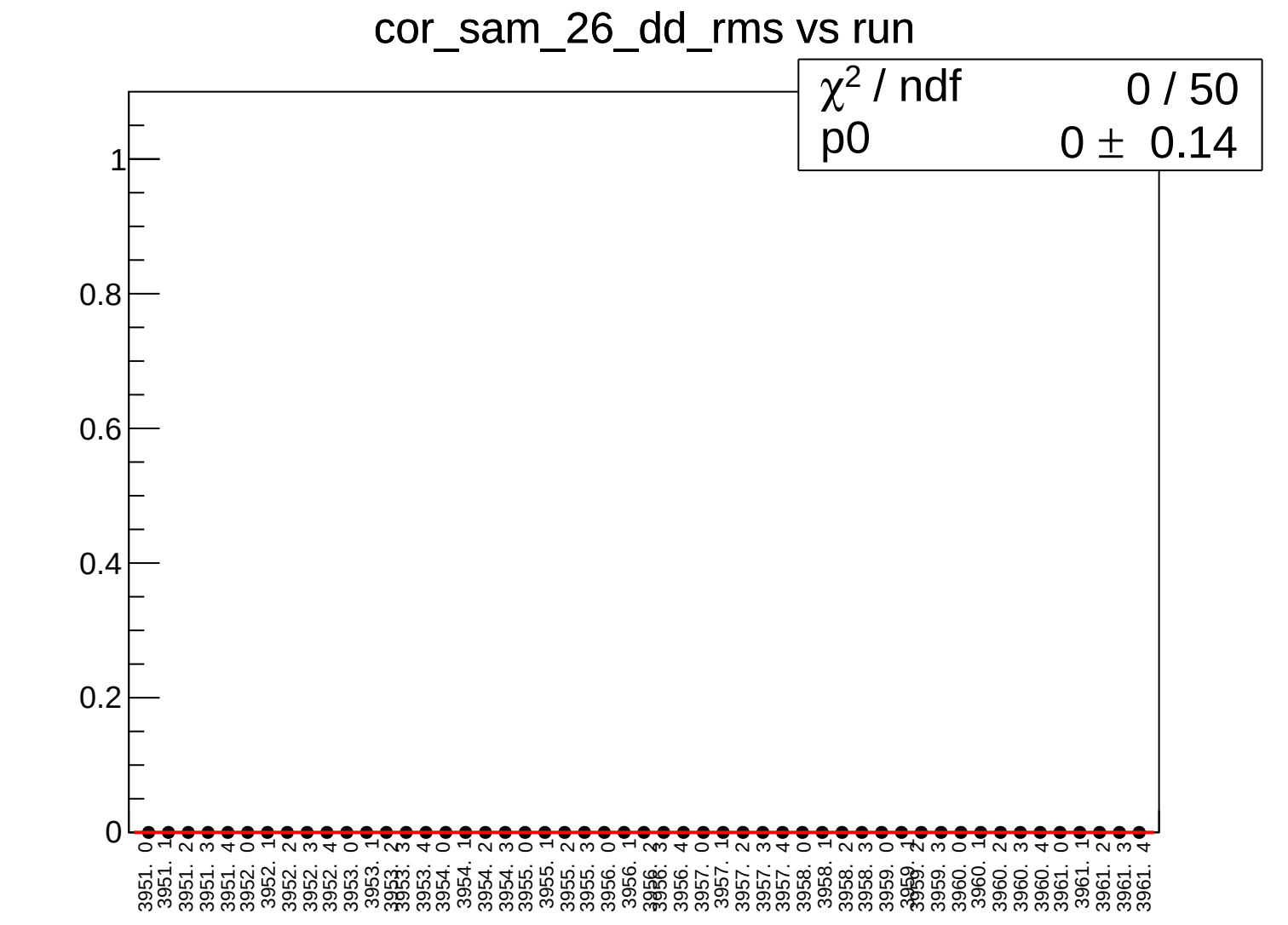

cor_sam_15_dd_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

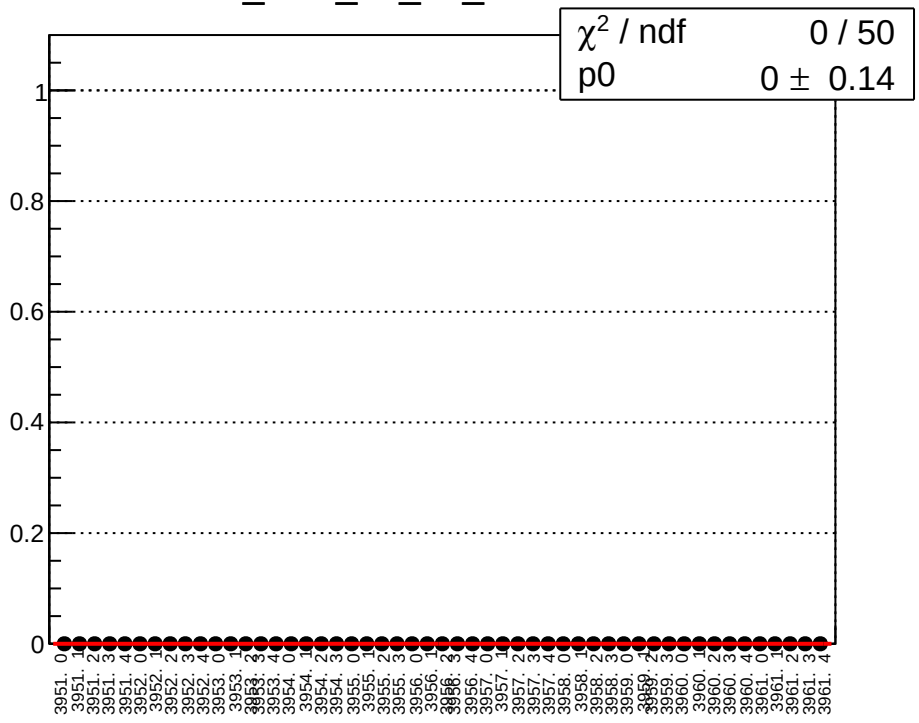

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

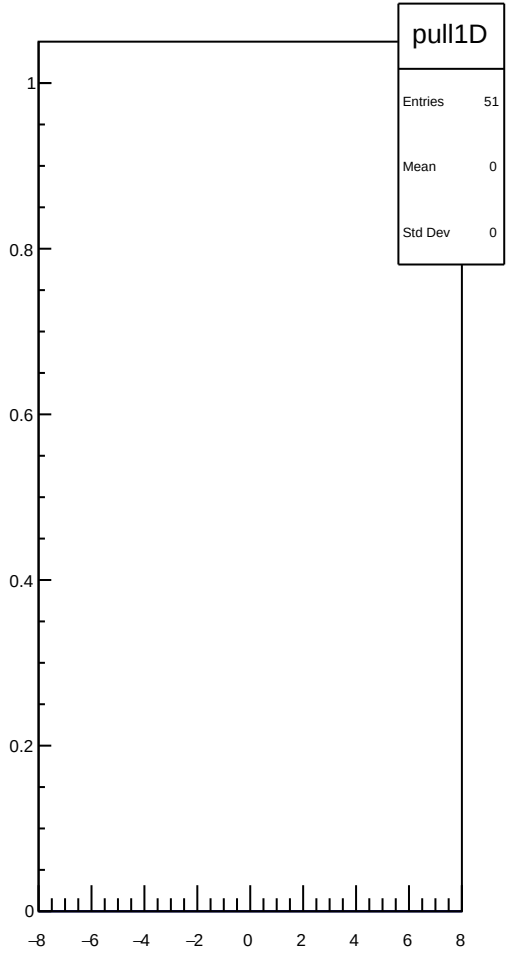

cor_sam_15_dd_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

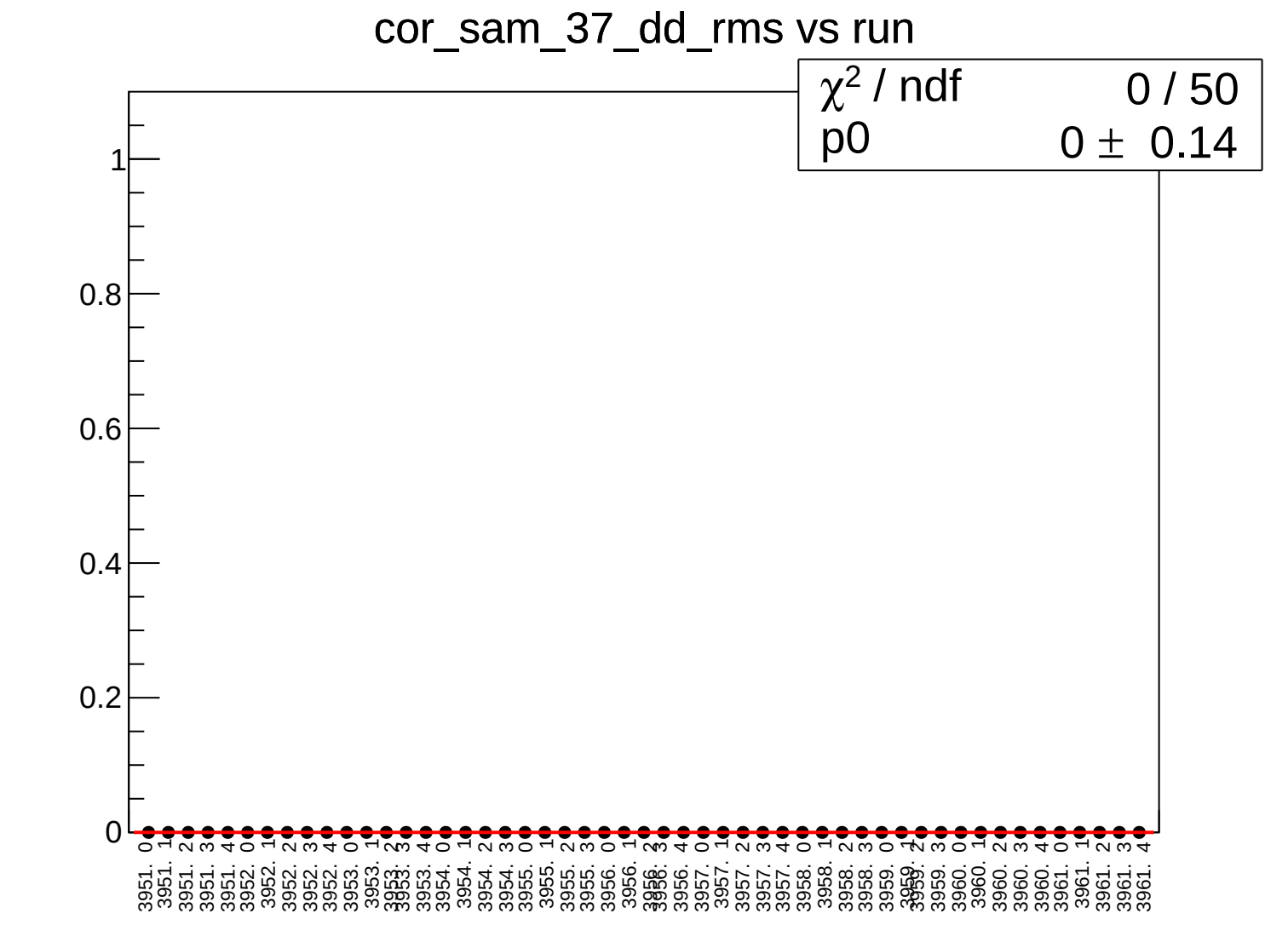

cor_sam_26_dd_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0

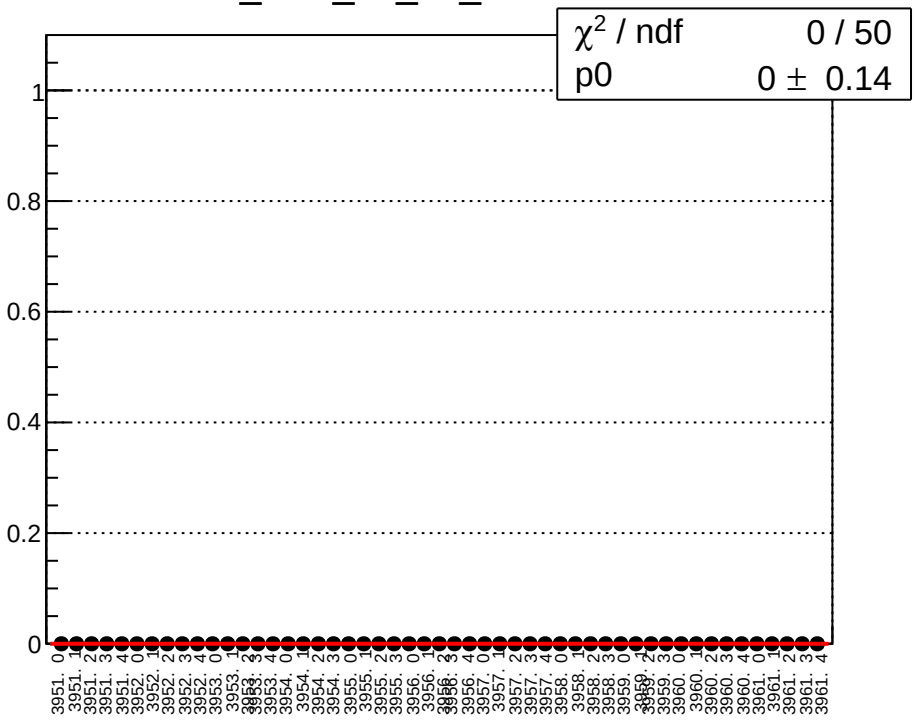

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

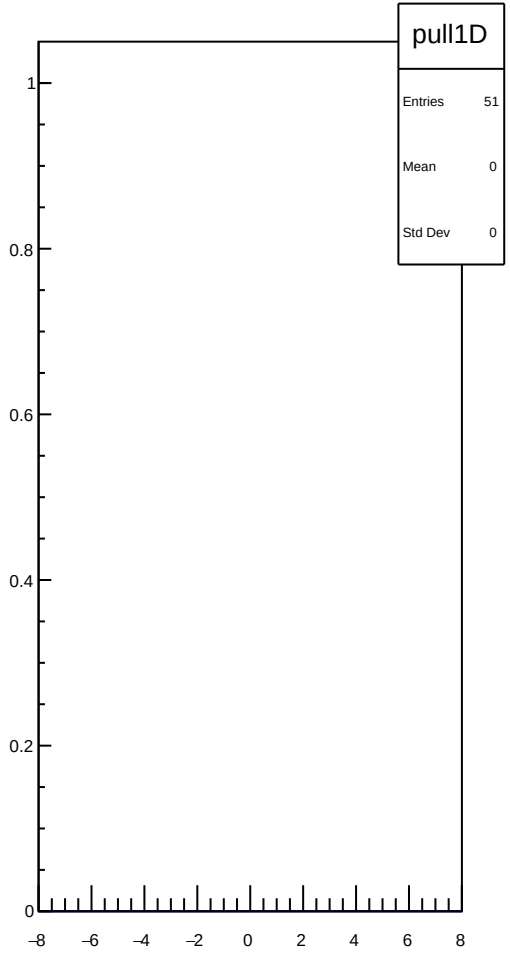

cor_sam_26_dd_rms vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

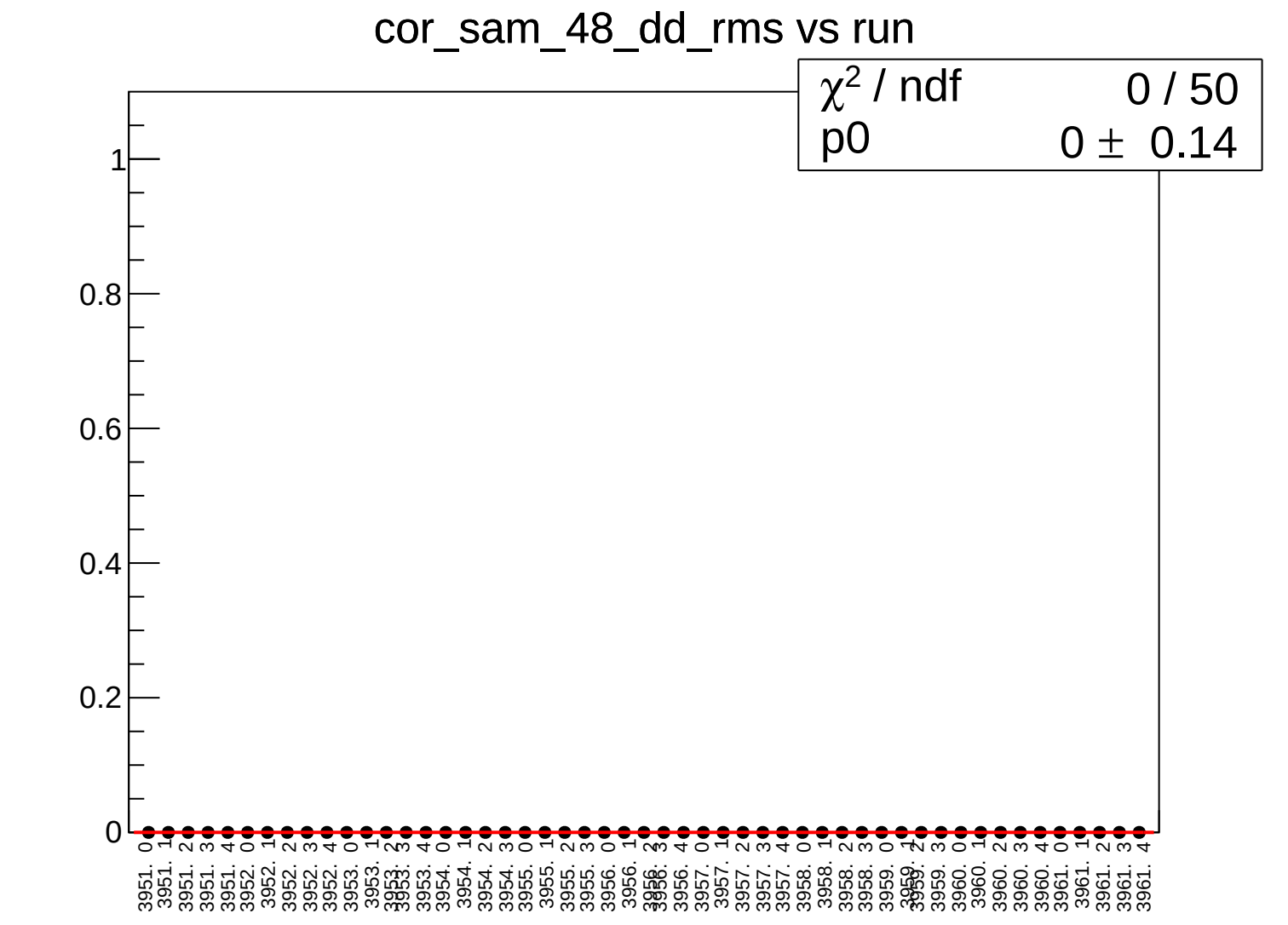

cor_sam_37_dd_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 51
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 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


cor_sam_48_dd_mean vs run
χ² / ndf 0 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 51
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 / 50
p0 0 ± 0.14
1
0.8
0.6
0.4
0.2
0
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
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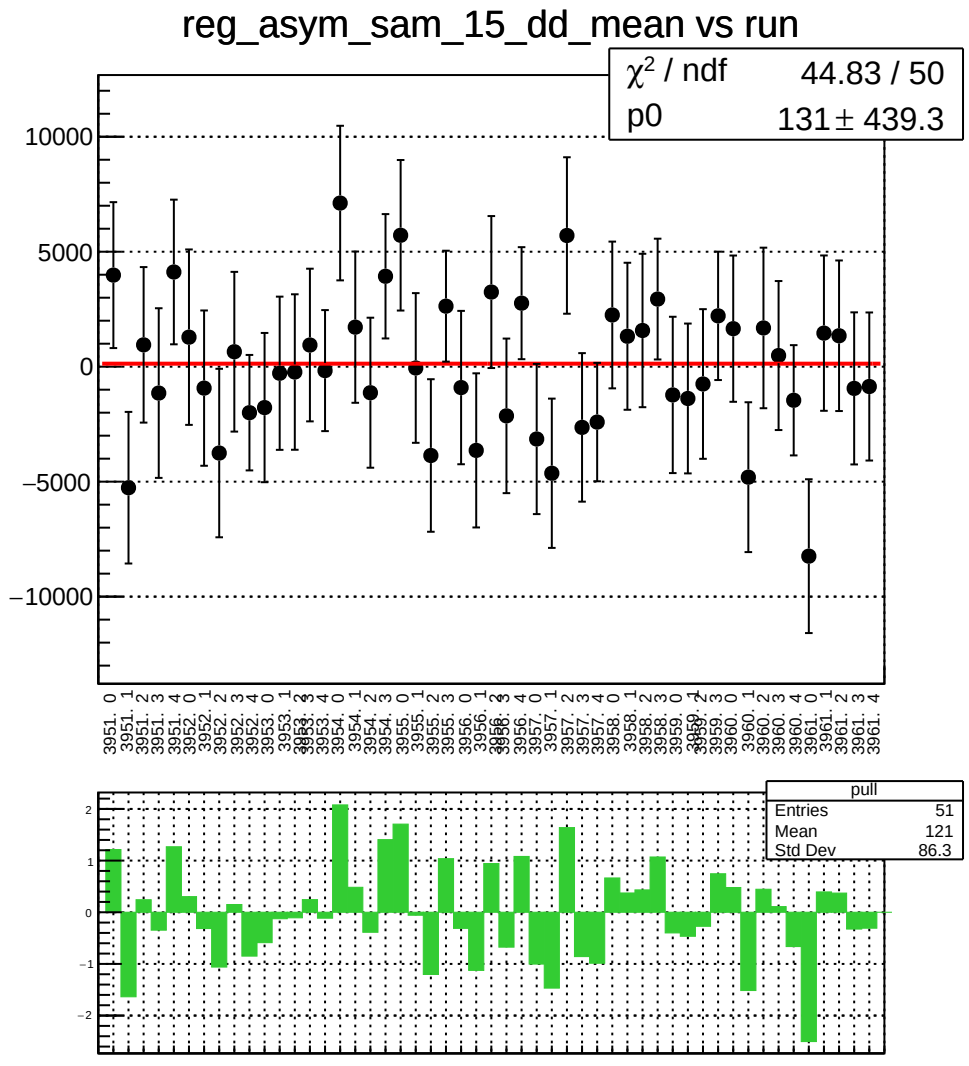
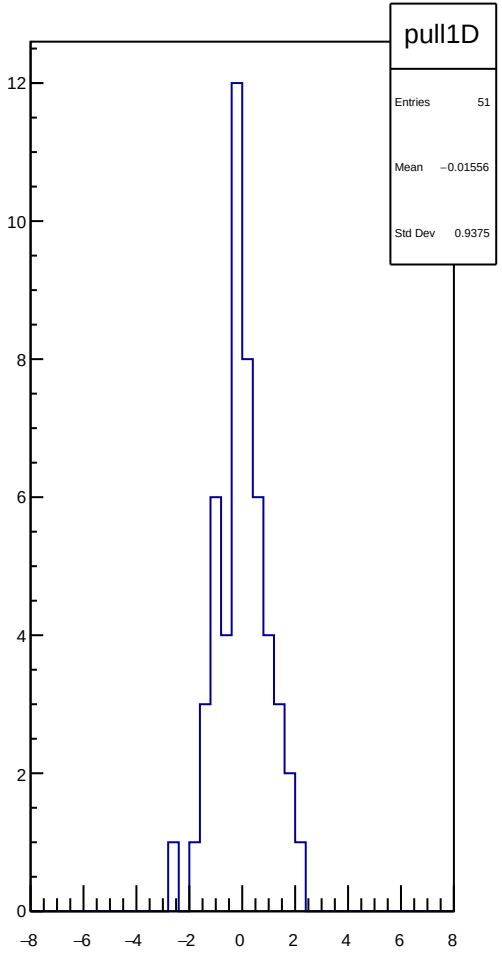
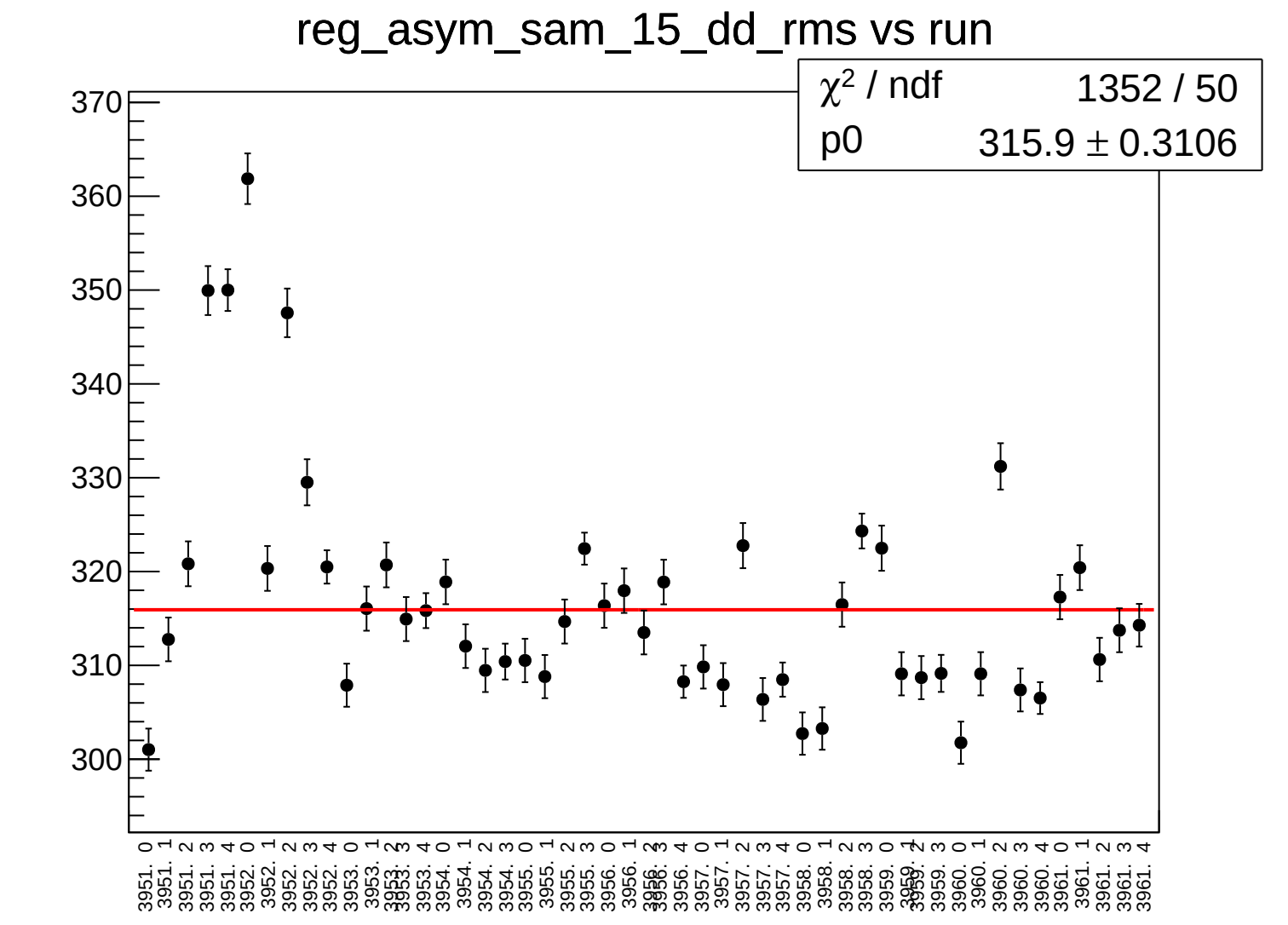
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_sam_15_dd_mean vs run
χ² / ndf 44.83 / 50
p0 131 ± 439.3
10000
5000
0
−5000
−10000
pull
Entries 51
Mean 121
Std Dev 86.3
2
1
0
−1
−2


pull1D
Entries 51
Mean −0.01556
Std Dev 0.9375
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_dd_rms vs run
χ² / ndf 1352 / 50
p0 315.9 ± 0.3106
370
360
350
340
330
320
310
300
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
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3956. 0
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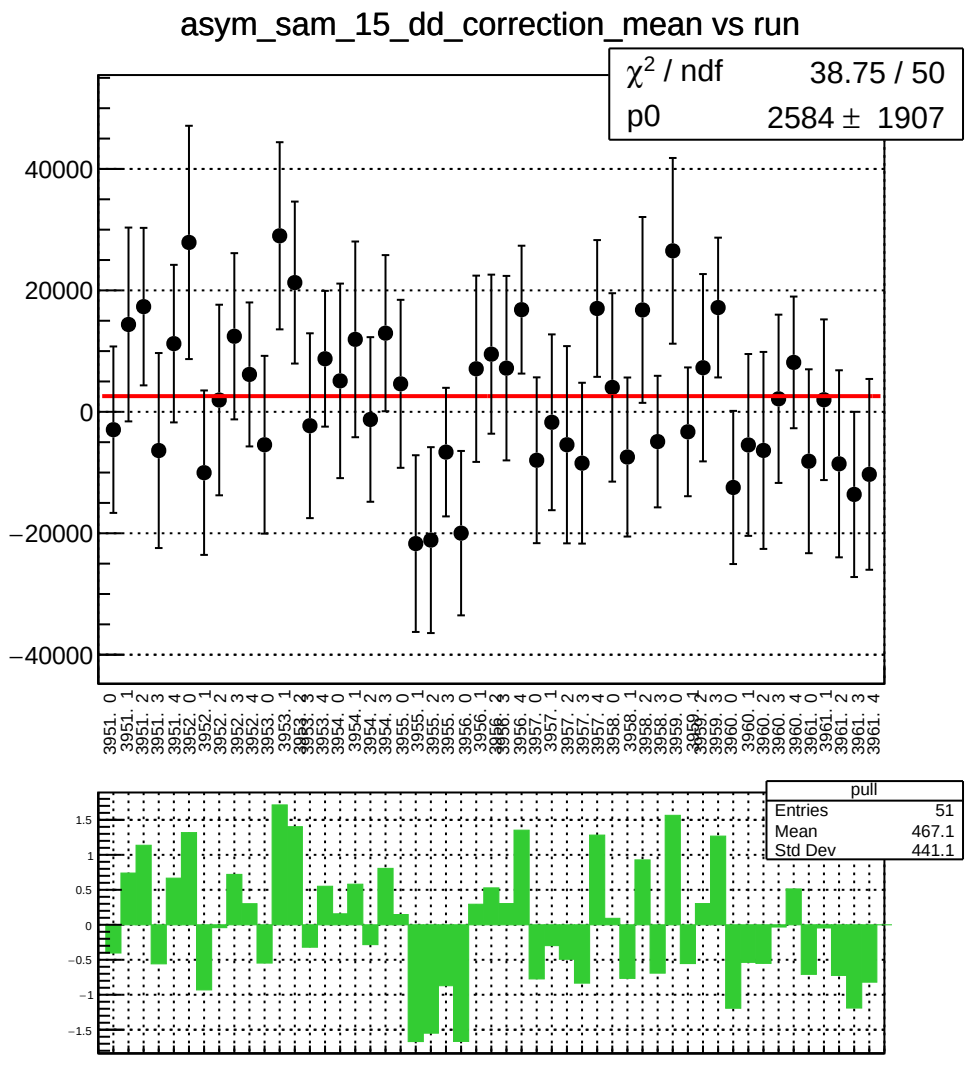
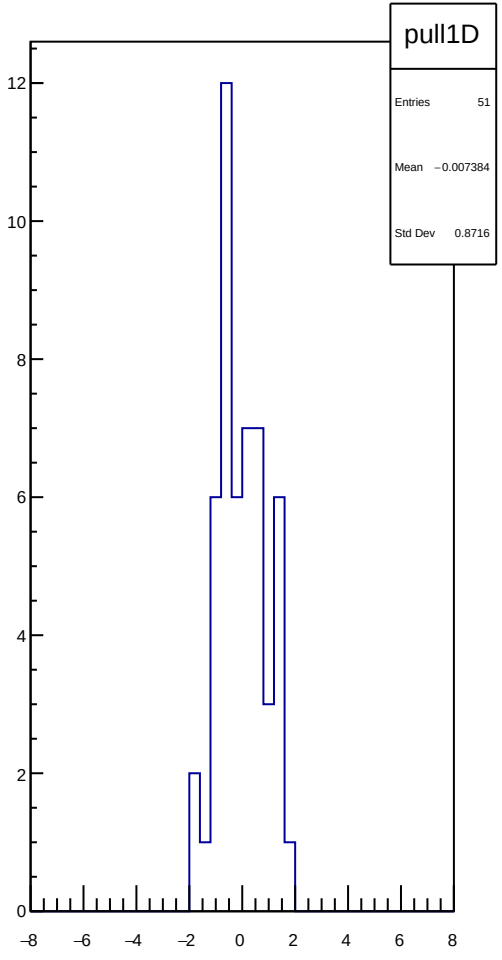
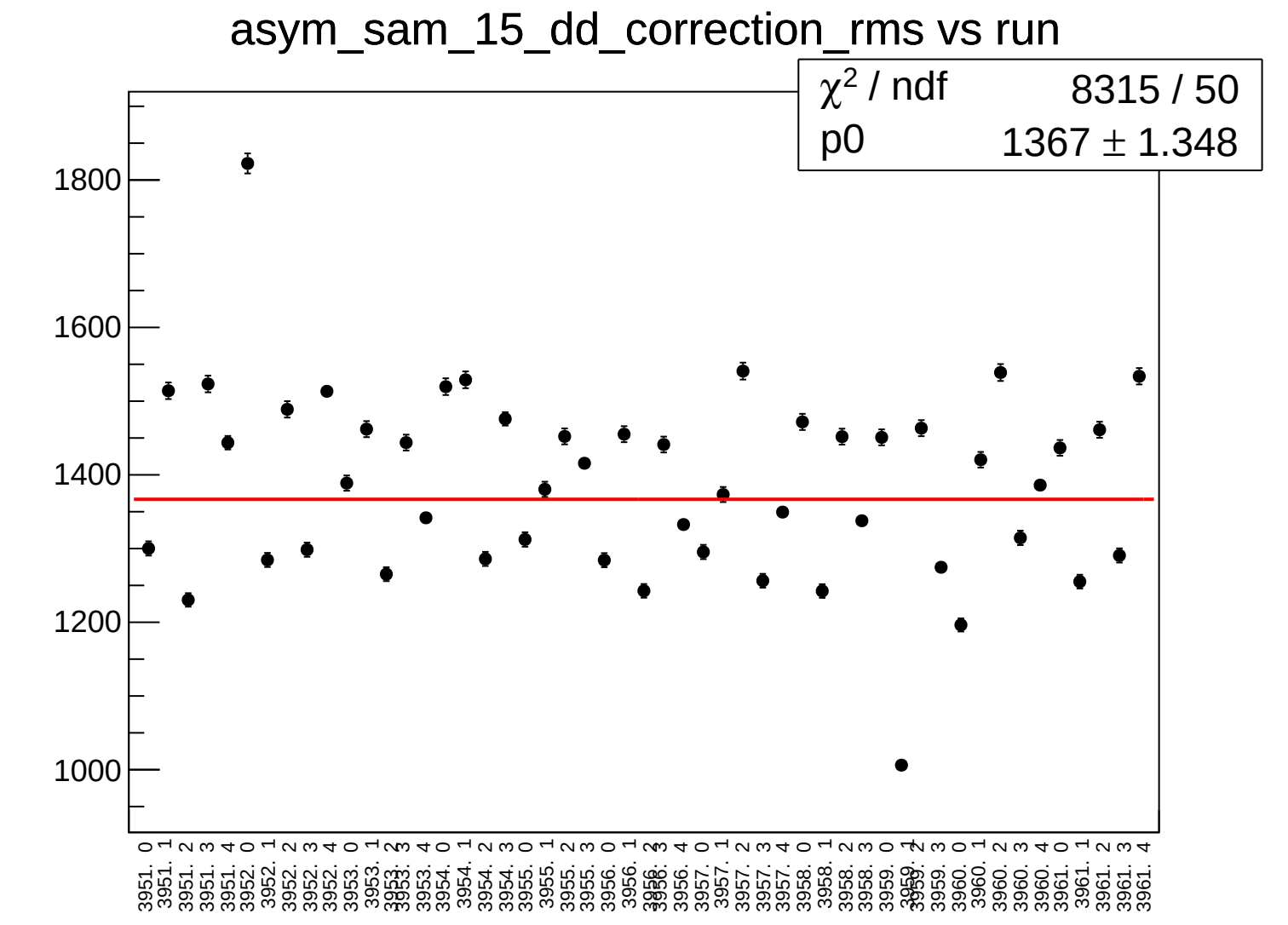
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_sam_15_dd_correction_mean vs run
χ² / ndf 38.75 / 50
p0 2584 ± 1907
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 467.1
Std Dev 441.1
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean −0.007384
Std Dev 0.8716
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_correction_rms vs run
χ² / ndf 8315 / 50
p0 1367 ± 1.348
1800
1600
1400
1200
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
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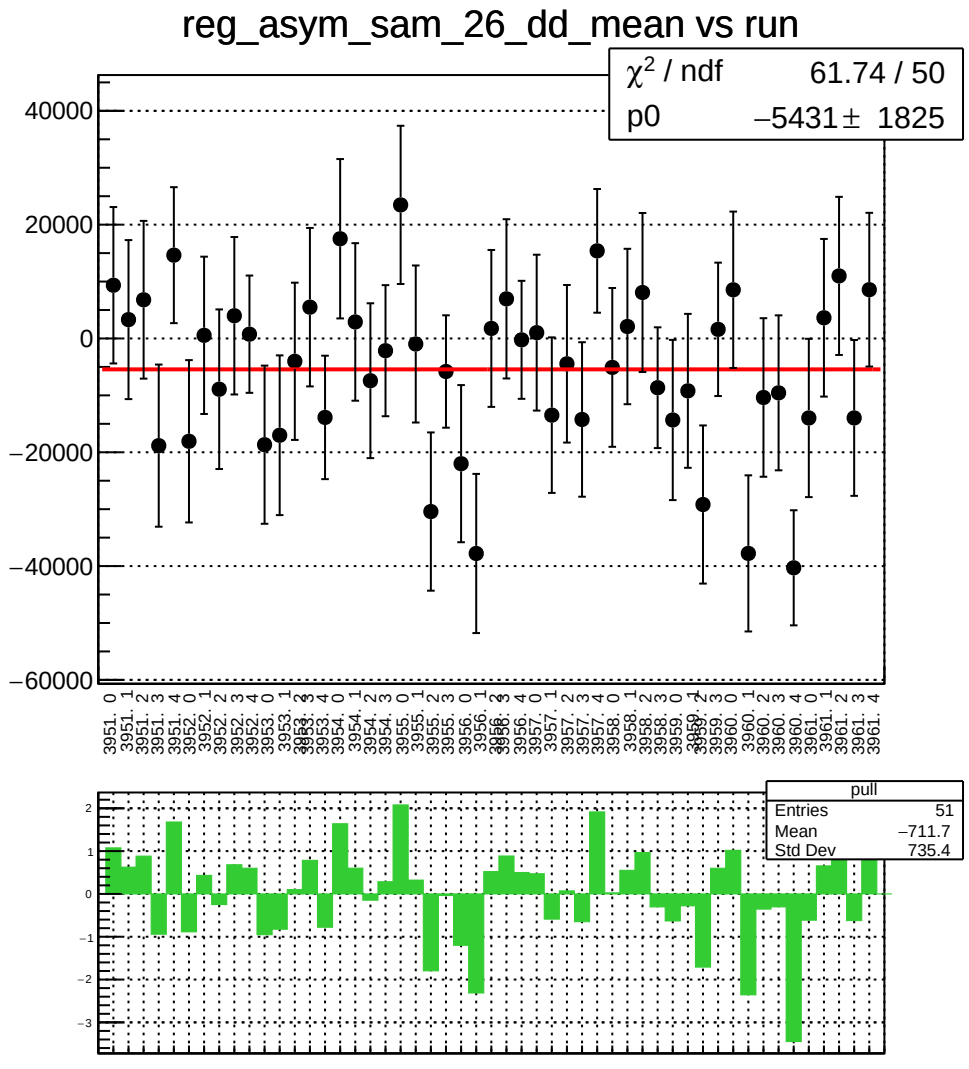
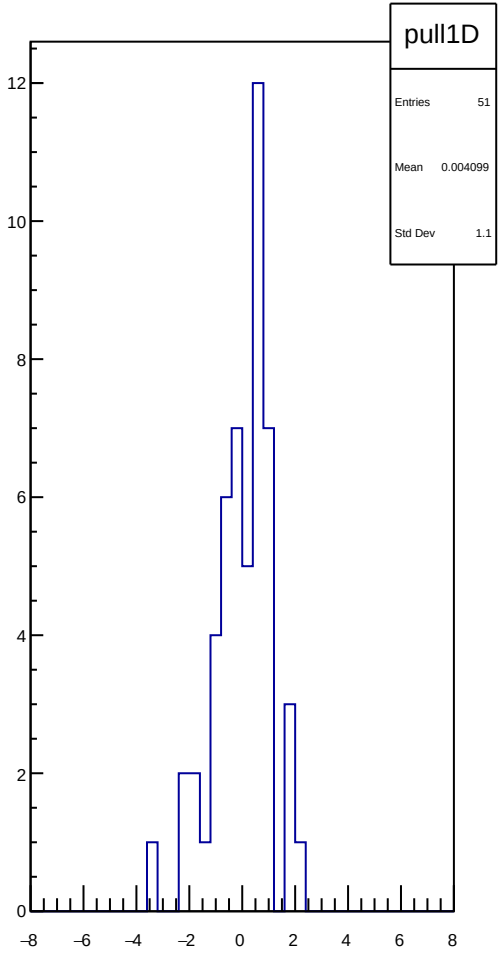
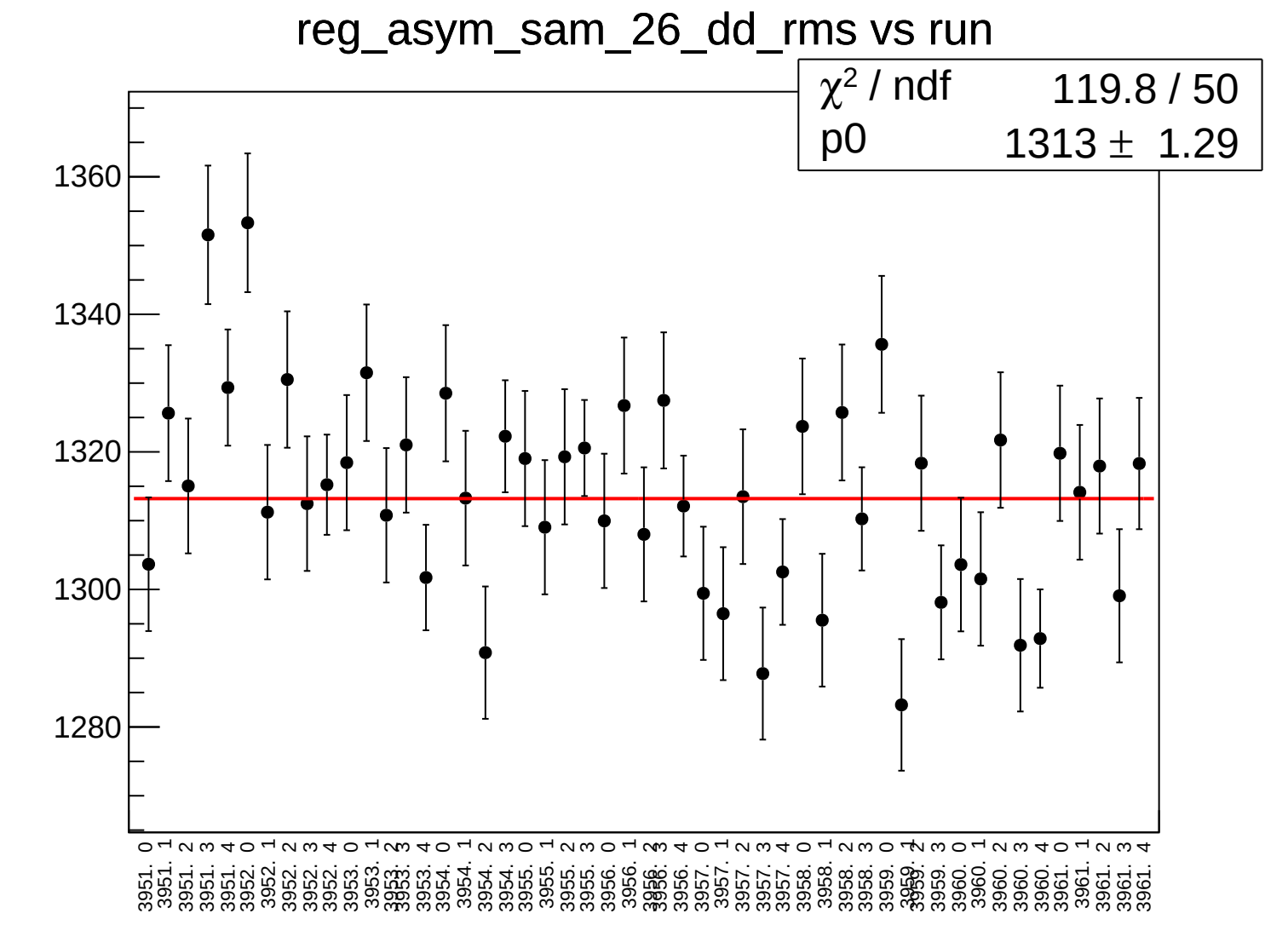
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_sam_26_dd_mean vs run
χ² / ndf 61.74 / 50
p0 −5431 ± 1825
pull
Entries 51
Mean −711.7
Std Dev 735.4


pull1D
Entries 51
Mean 0.004099
Std Dev 1.1


reg_asym_sam_26_dd_rms vs run
χ² / ndf 119.8 / 50
p0 1313 ± 1.29
1360
1340
1320
1300
1280
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
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3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
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3956. 2
3956. 3
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3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
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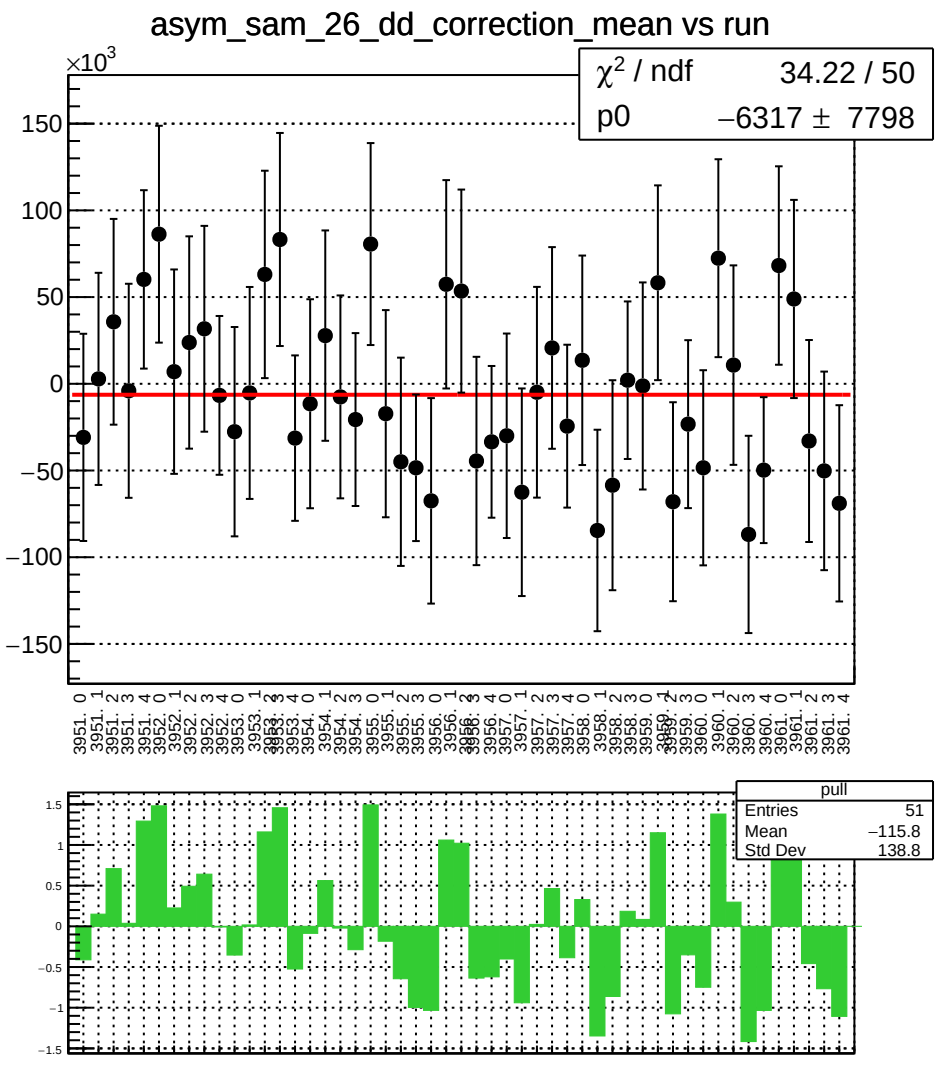
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 34.22 / 50
p0 −6317 ± 7798
150
100
50
0
−50
−100
−150
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
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3954. 1
3954. 2
3954. 3
3954. 4
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3955. 2
3955. 3
3956. 0
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3956. 2
3956. 3
3956. 4
3957. 0
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3957. 2
3957. 3
3957. 4
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3958. 1
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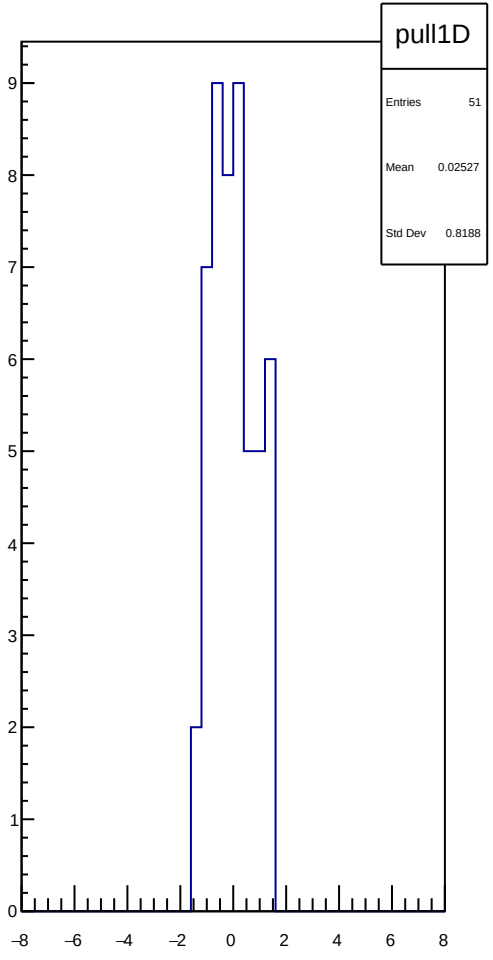
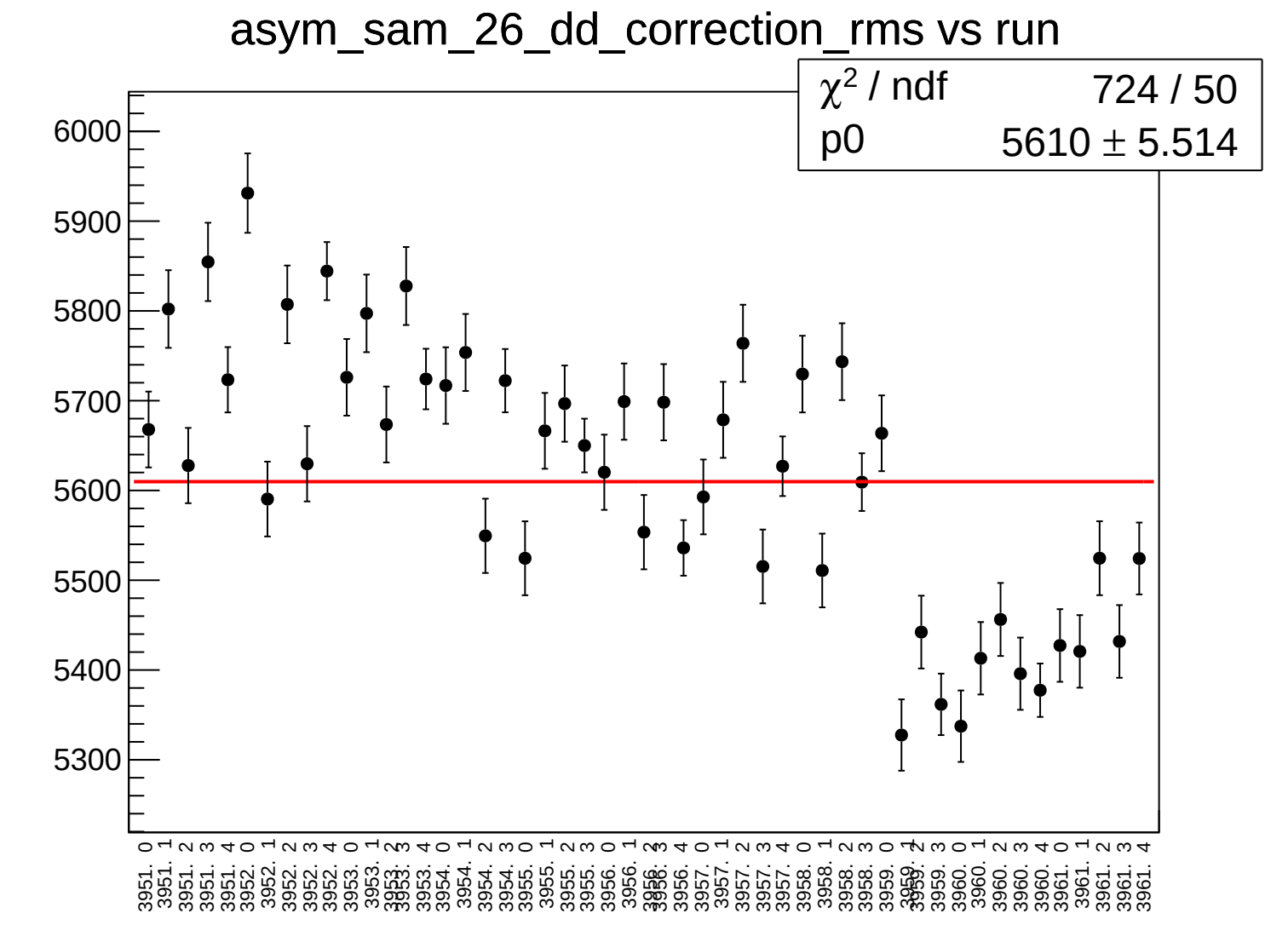
3958. 3
3958. 4
3959. 0
3959. 1
3959. 2
3959. 3
3959. 4
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4
pull
Entries 51
Mean −115.8
Std Dev 138.8
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.02527
Std Dev 0.8188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_correction_rms vs run
χ² / ndf 724 / 50
p0 5610 ± 5.514
6000
5900
5800
5700
5600
5500
5400
5300
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
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3953. 3
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3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
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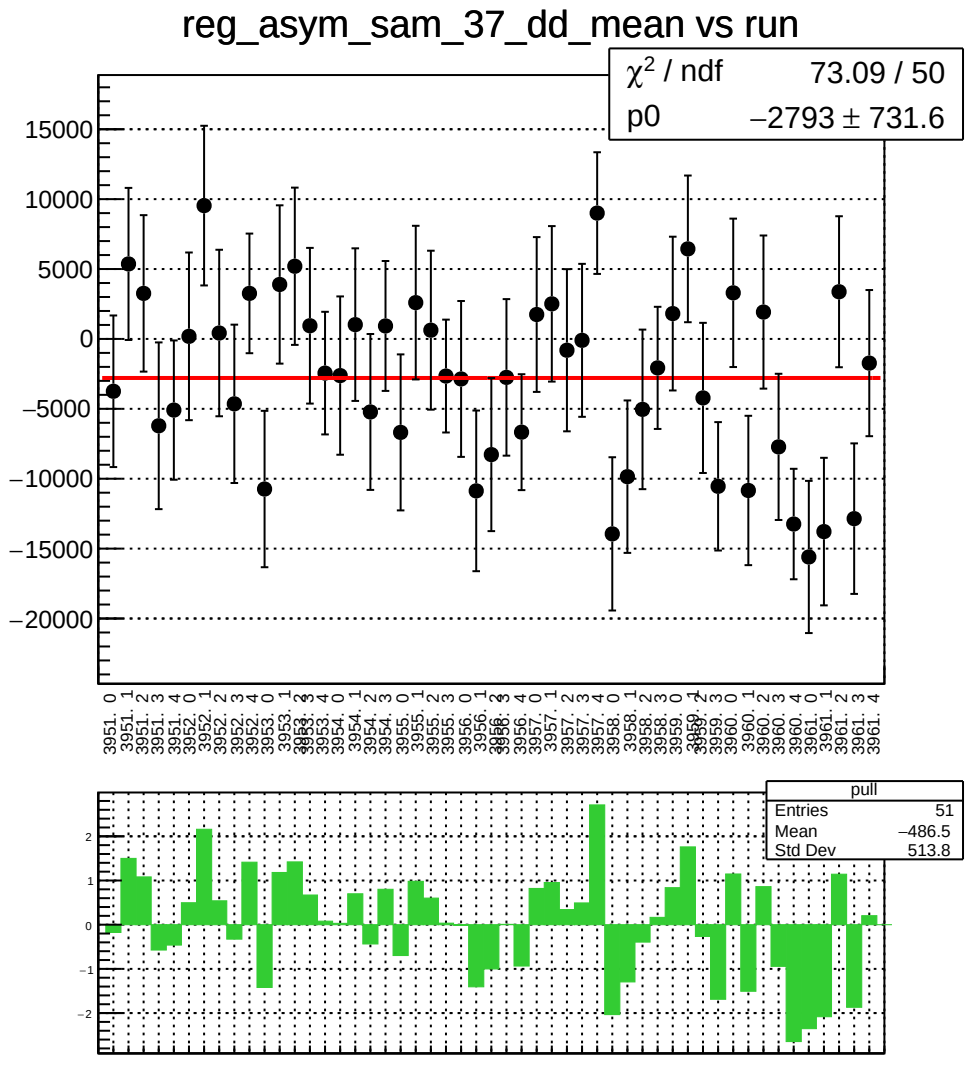
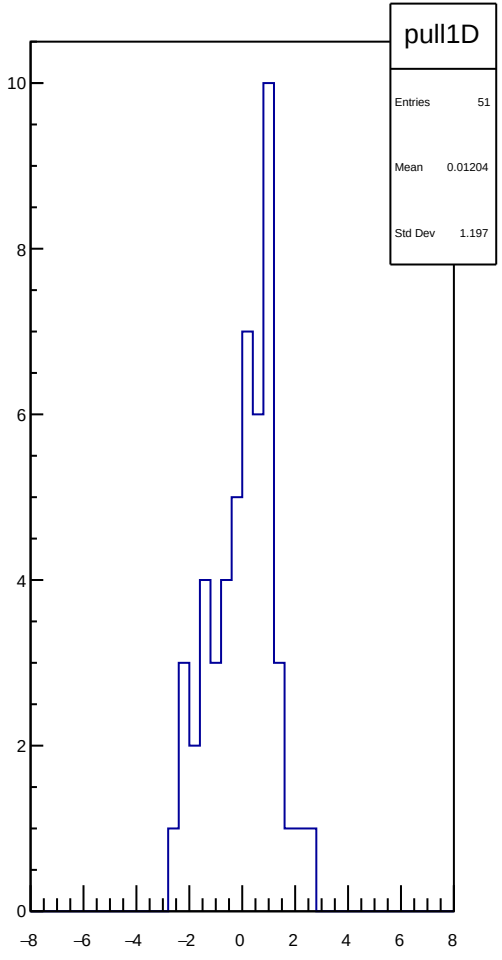
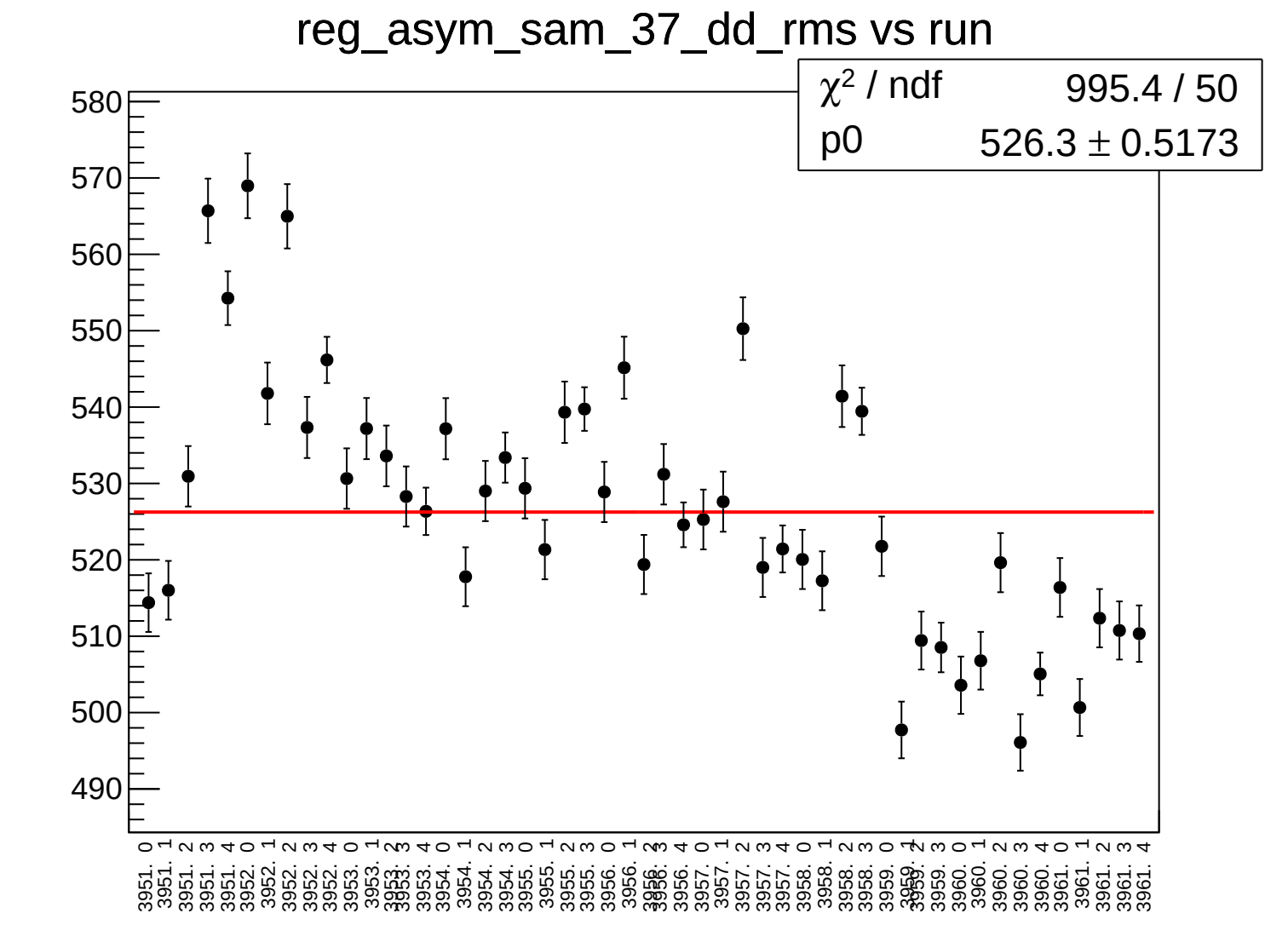
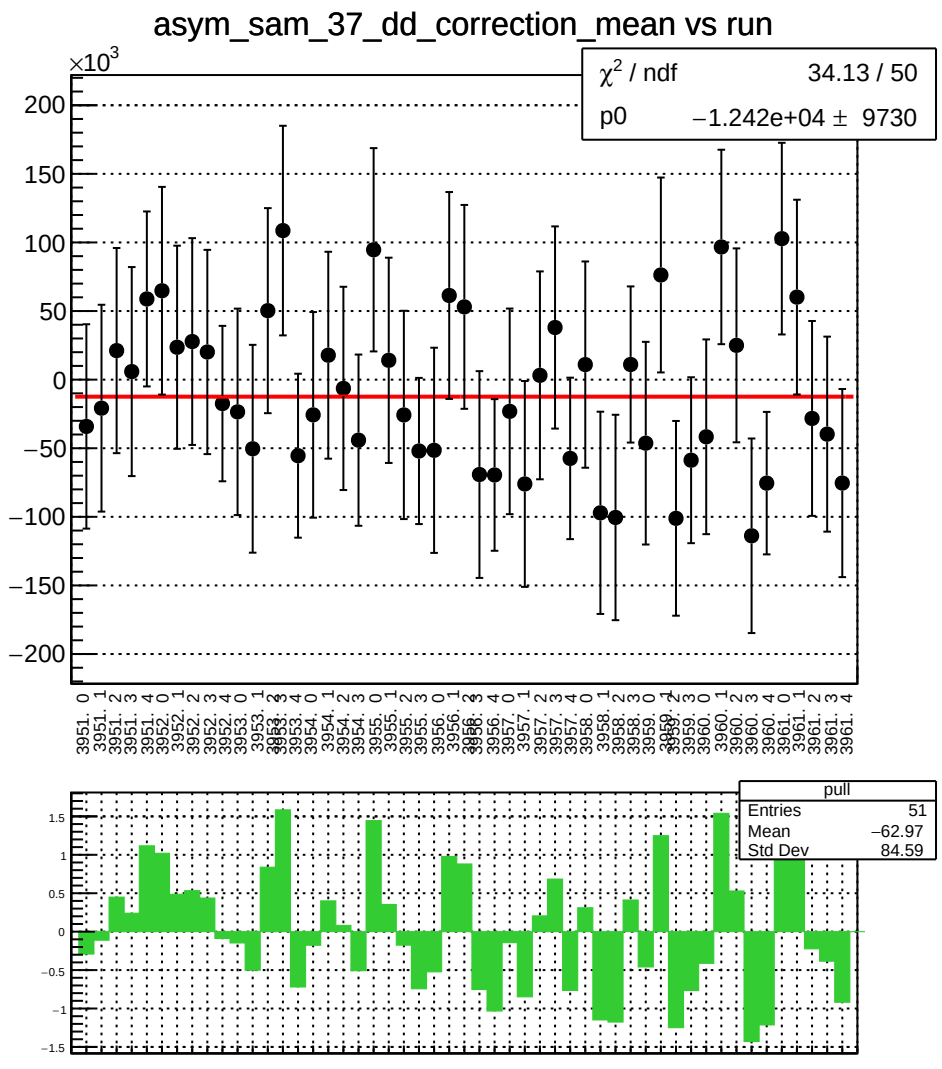
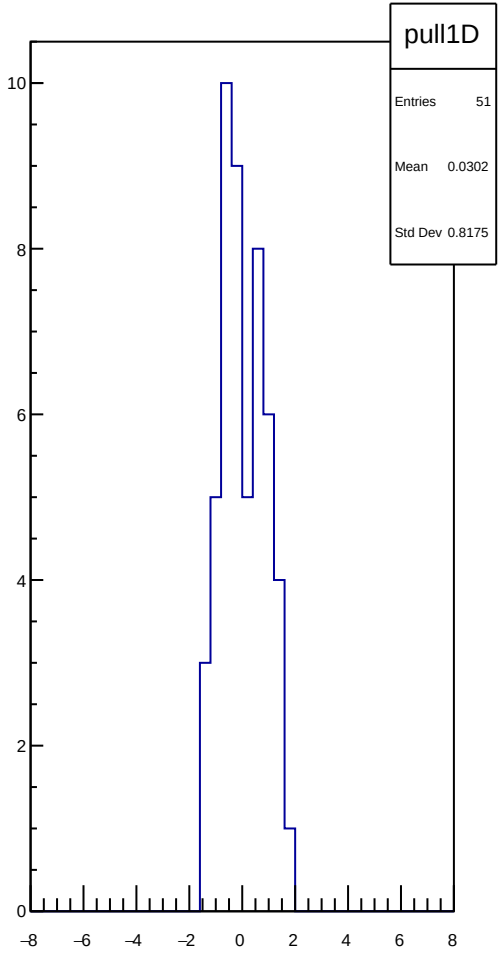
3961. 1
3961. 2
3961. 3
3961. 4

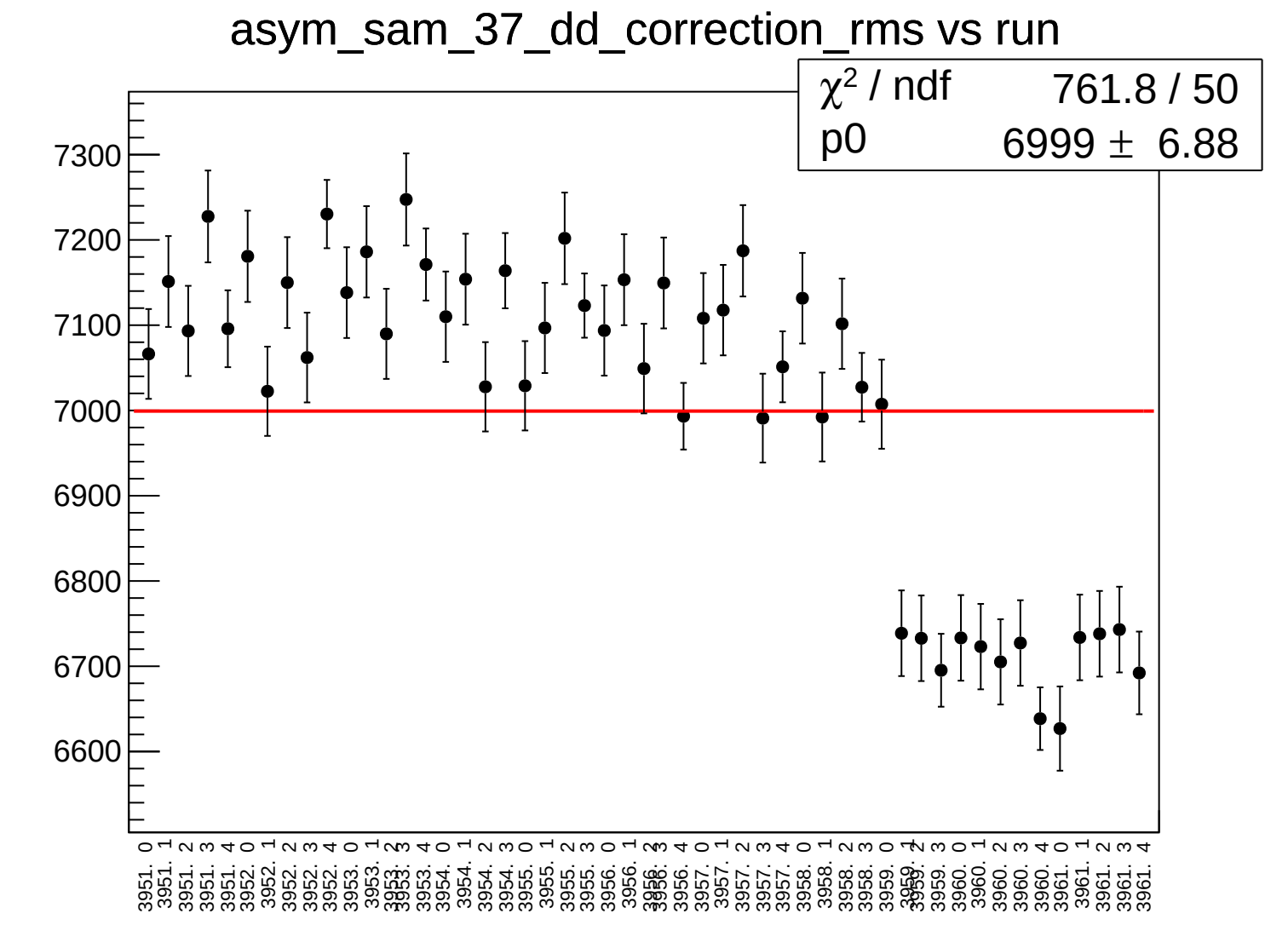

reg_asym_sam_37_dd_mean vs run
χ² / ndf 73.09 / 50
p0 −2793 ± 731.6
pull
Entries 51
Mean −486.5
Std Dev 513.8

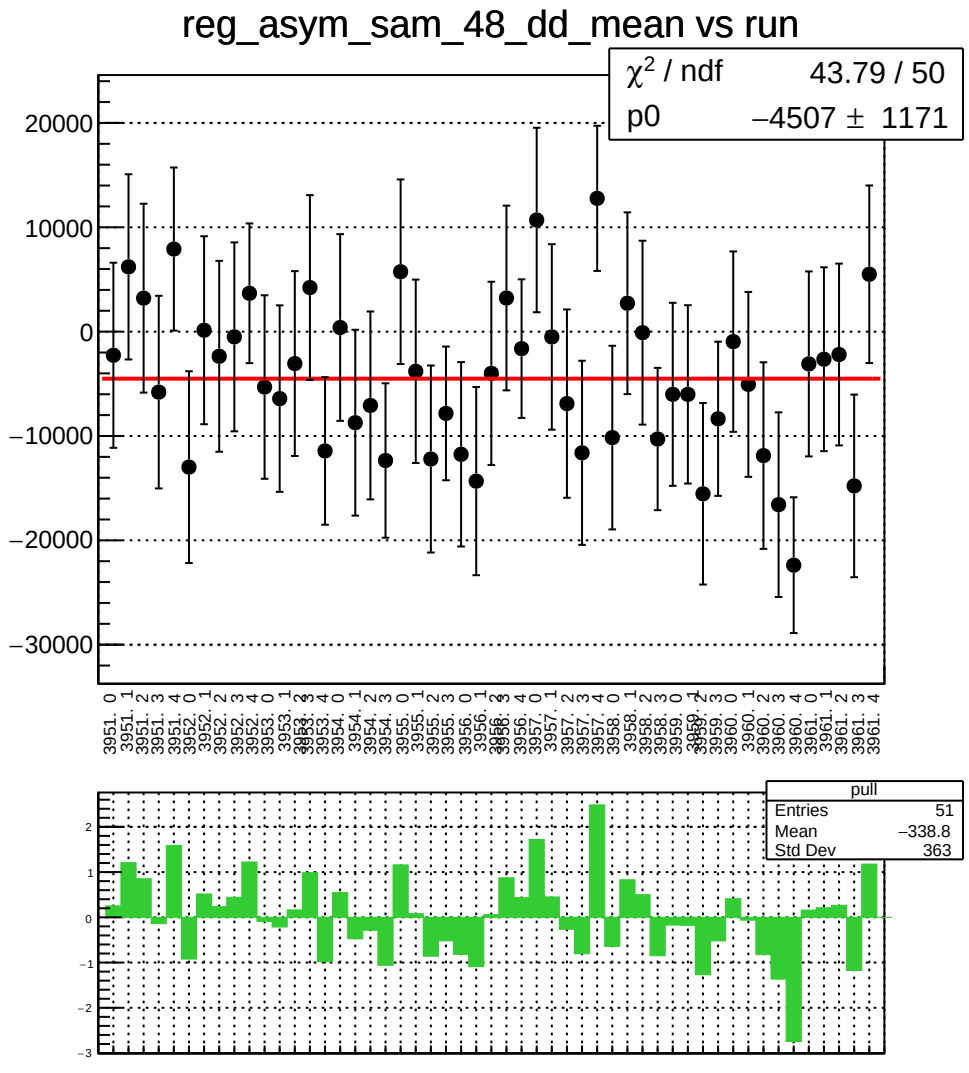

pull1D
Entries 51
Mean 0.01204
Std Dev 1.197

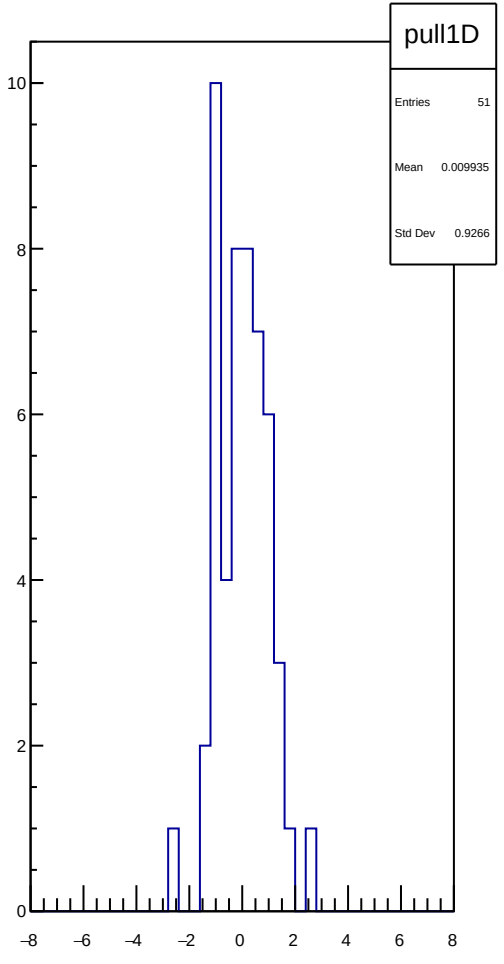

reg_asym_sam_37_dd_rms vs run
χ² / ndf 995.4 / 50
p0 526.3 ± 0.5173
580
570
560
550
540
530
520
510
500
490
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

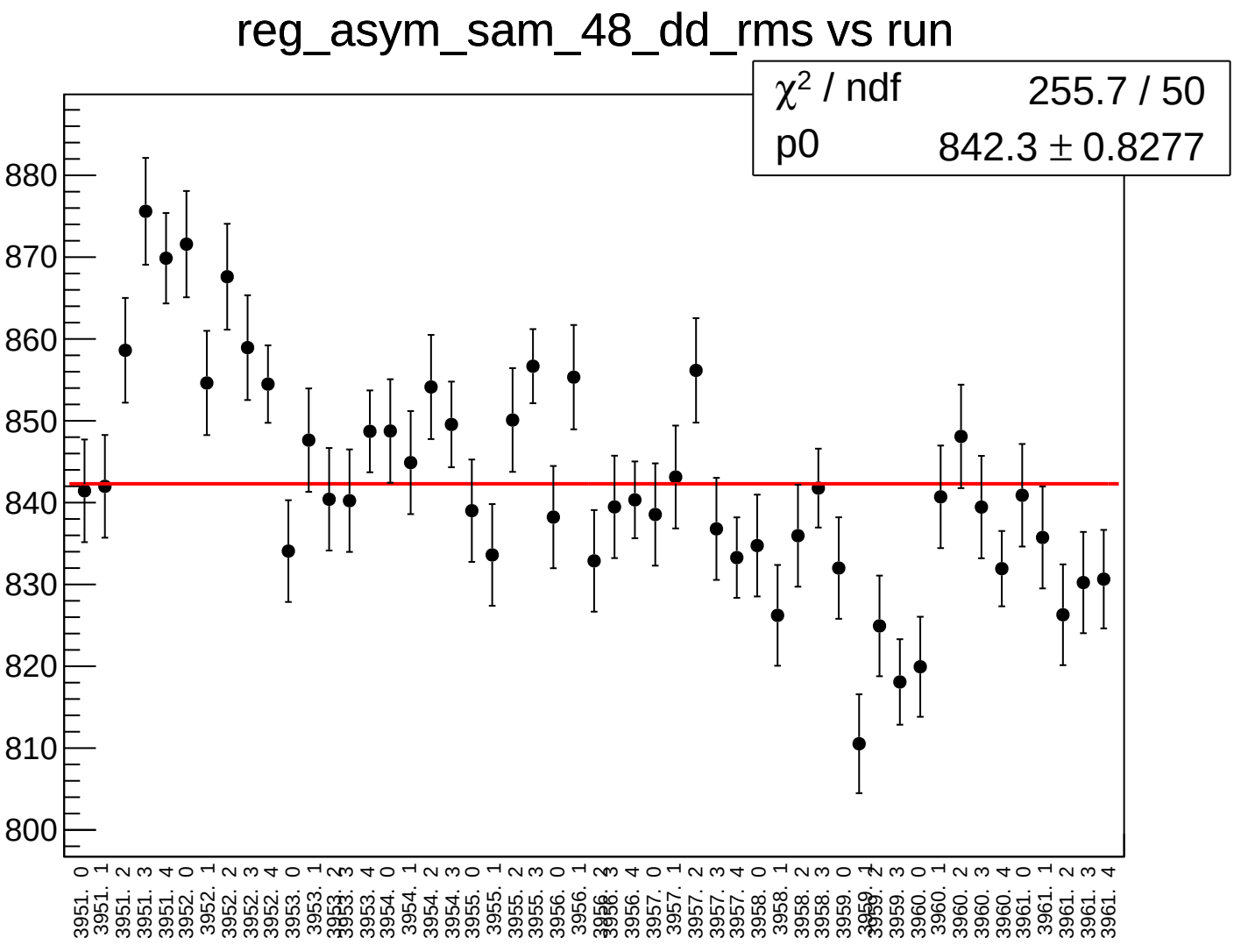

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 34.13 / 50
p0 −1.242e+04 ± 9730
pull
Entries 51
Mean −62.97
Std Dev 84.59

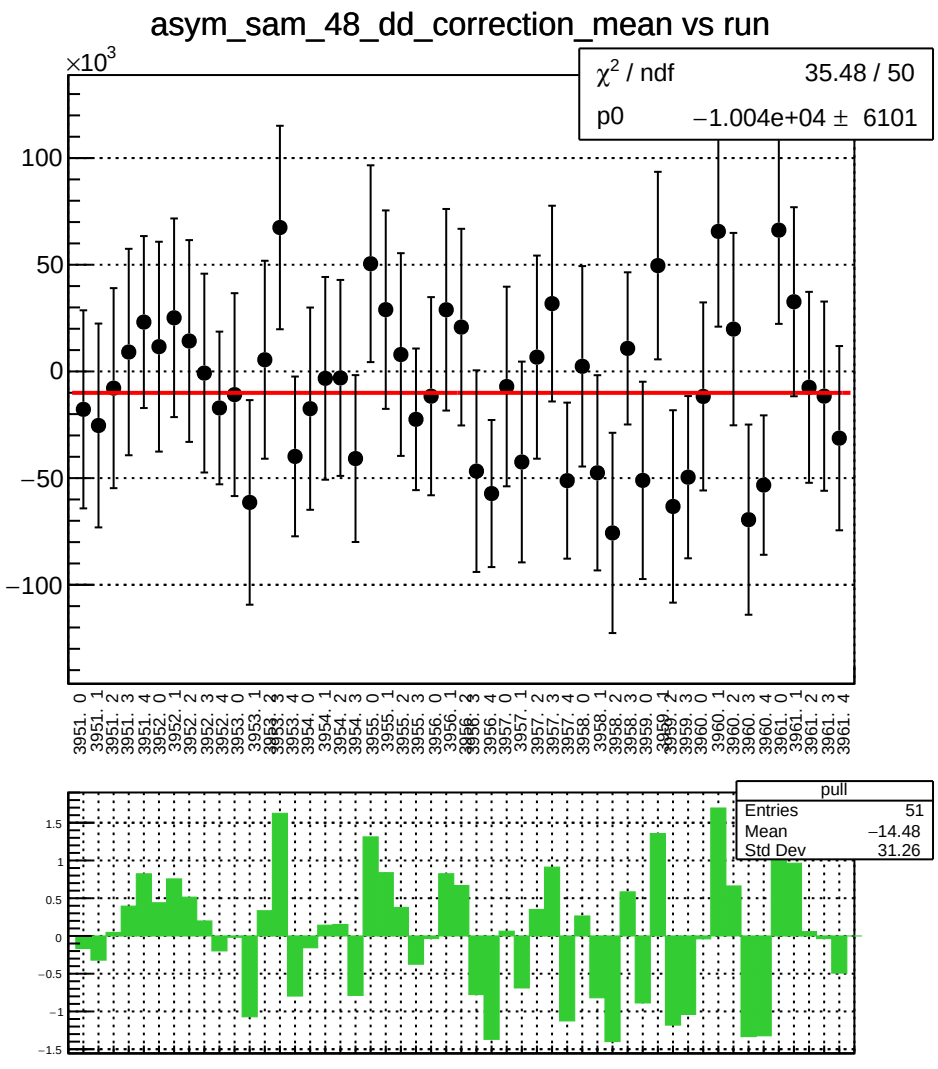

pull1D
Entries 51
Mean 0.0302
Std Dev 0.8175

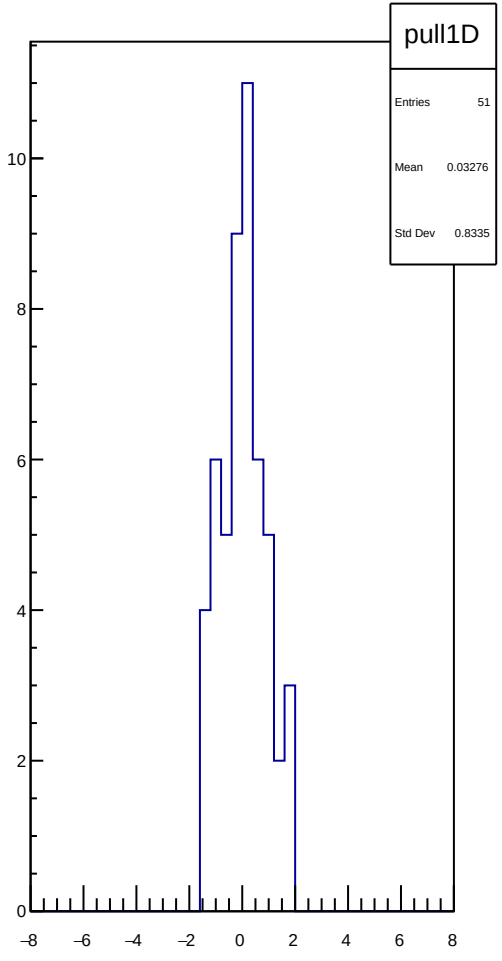

asym_sam_37_dd_correction_rms vs run
χ² / ndf 761.8 / 50
p0 6999 ± 6.88
7300
7200
7100
7000
6900
6800
6700
6600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

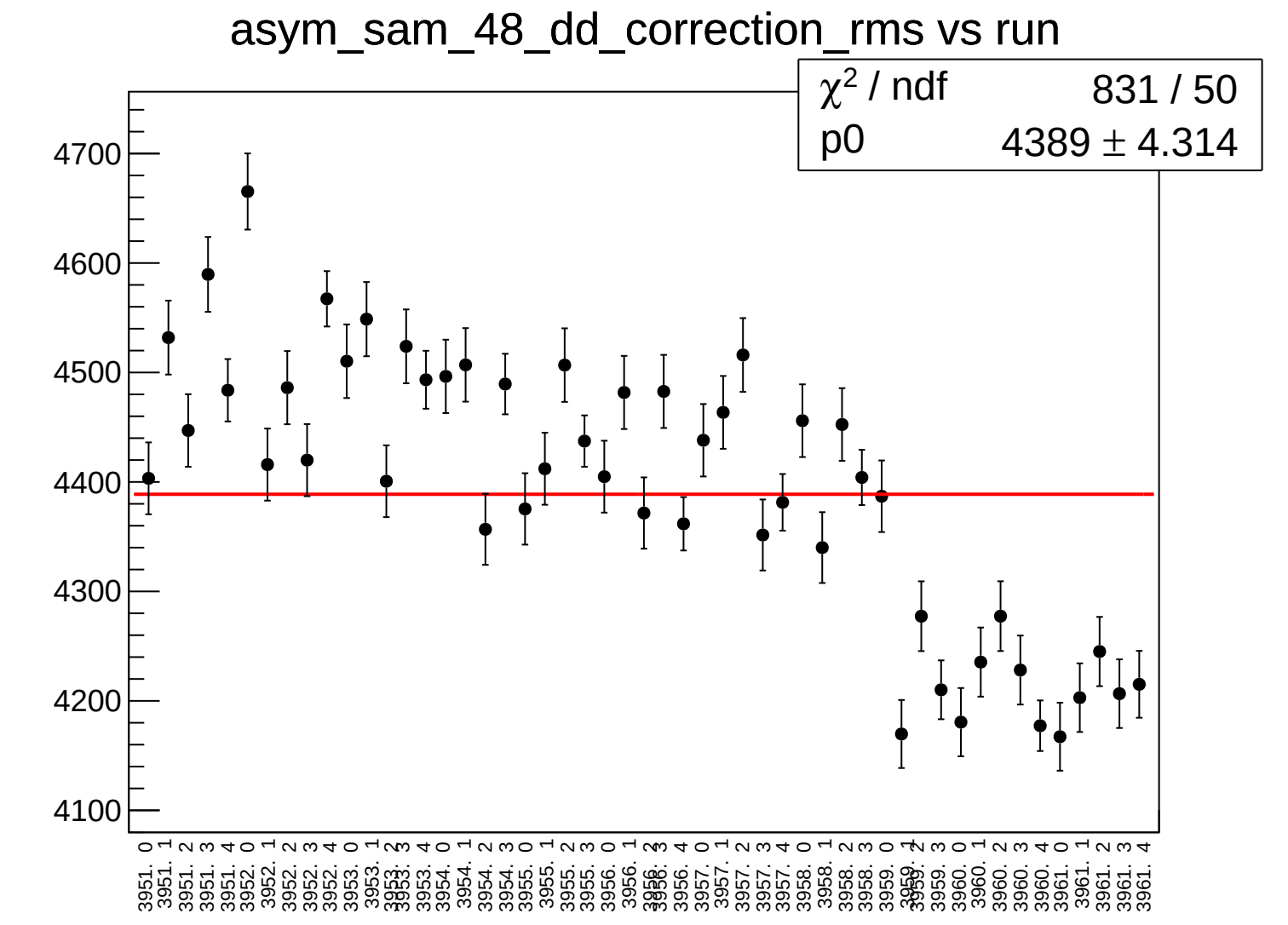

reg_asym_sam_48_dd_mean vs run
χ² / ndf 43.79 / 50
p0 −4507 ± 1171
pull
Entries 51
Mean −338.8
Std Dev 363

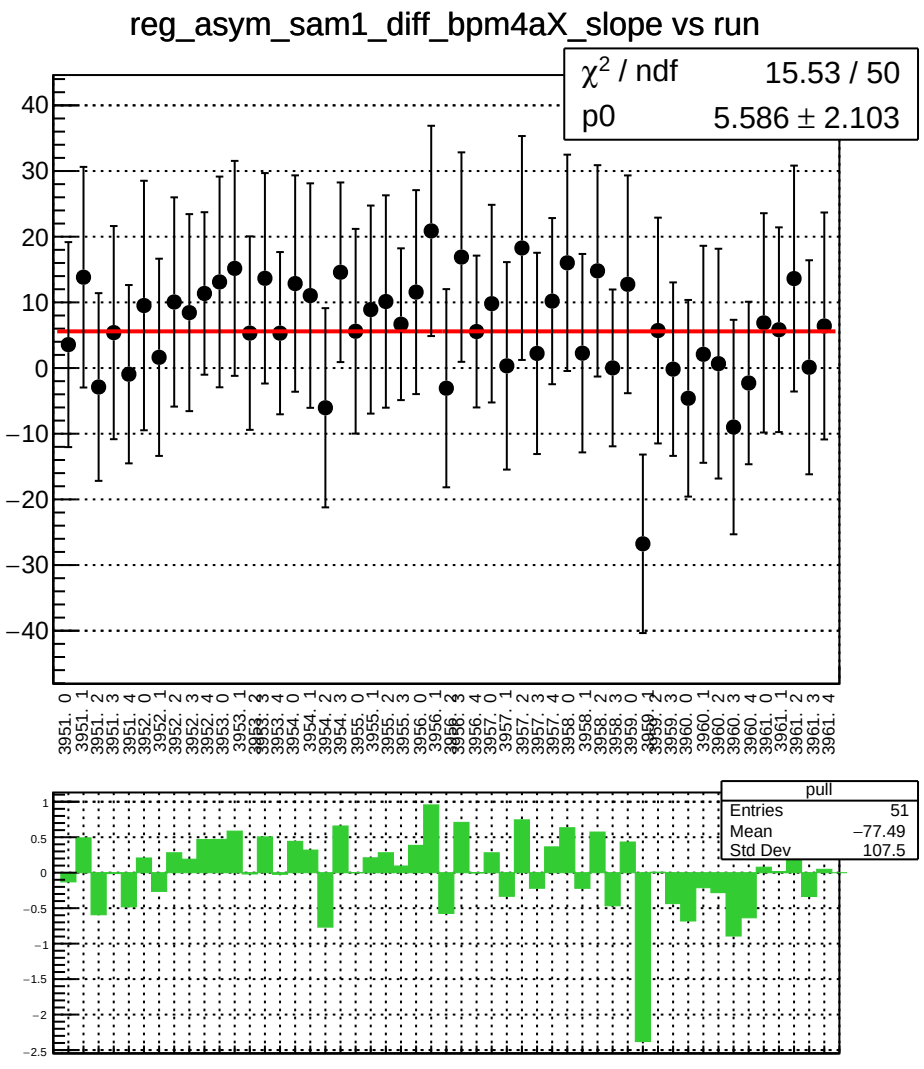

pull1D
Entries 51
Mean 0.009935
Std Dev 0.9266

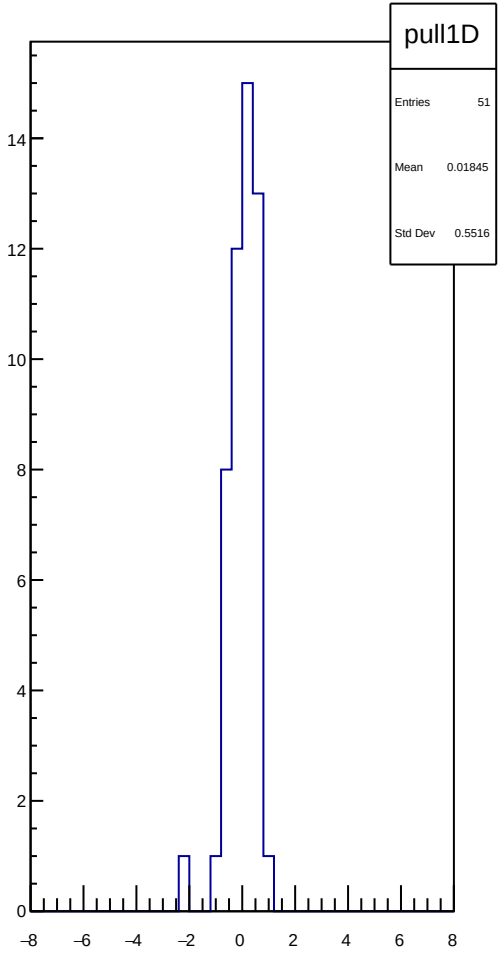

reg_asym_sam_48_dd_rms vs run
χ² / ndf 255.7 / 50
p0 842.3 ± 0.8277
880
870
860
850
840
830
820
810
800
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

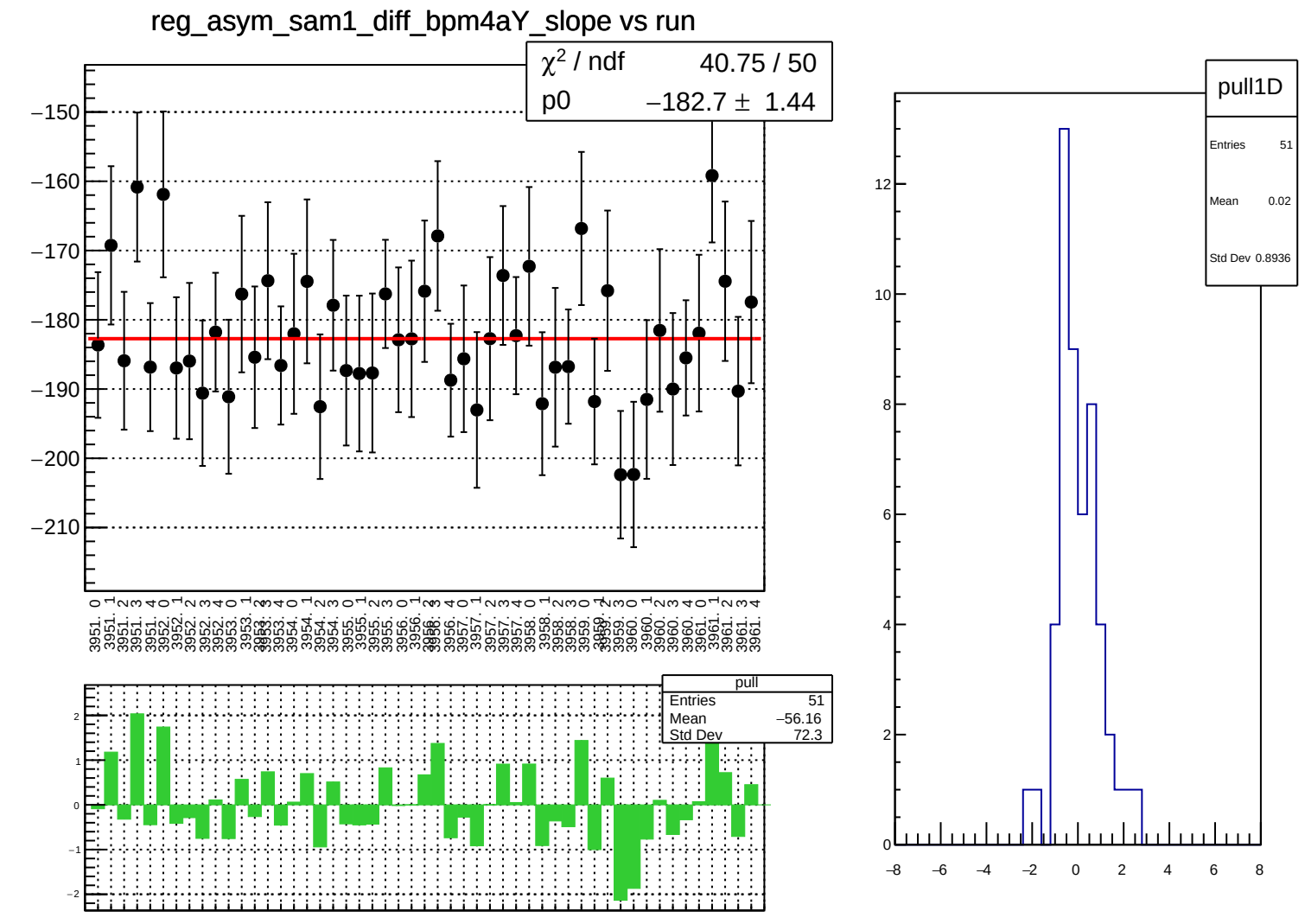

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 35.48 / 50
p0 −1.004e+04 ± 6101
100
50
0
−50
−100
pull
Entries 51
Mean −14.48
Std Dev 31.26
1.5
1
0.5
0
−0.5
−1
−1.5

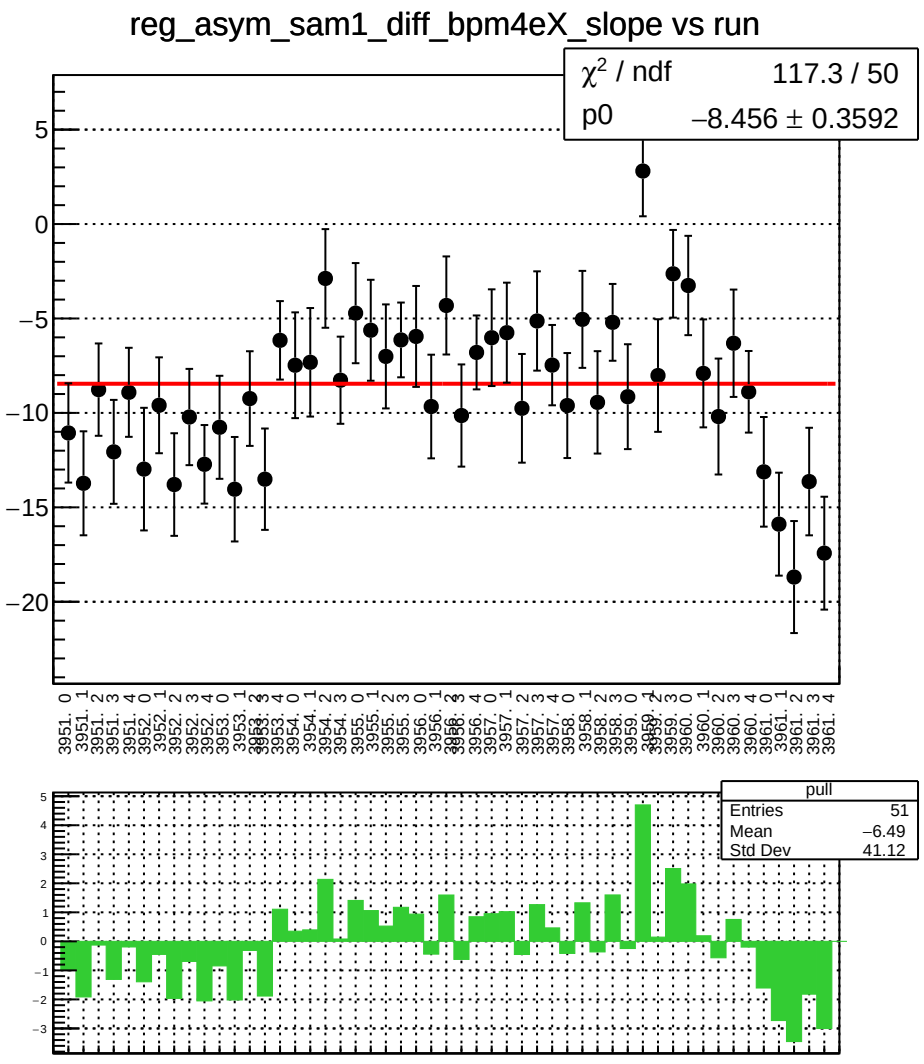

pull1D
Entries 51
Mean 0.03276
Std Dev 0.8335
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

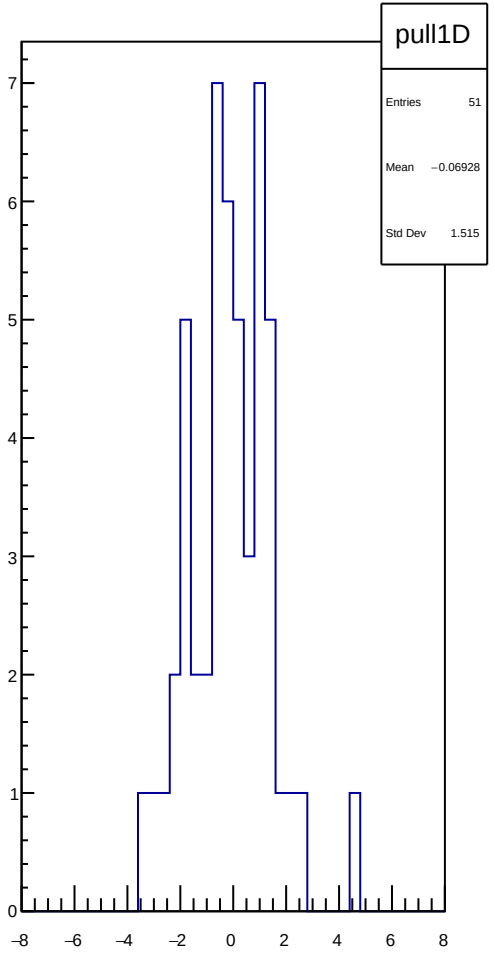

asym_sam_48_dd_correction_rms vs run
χ^2 / ndf 831 / 50
p0 4389 ± 4.314
4700
4600
4500
4400
4300
4200
4100
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

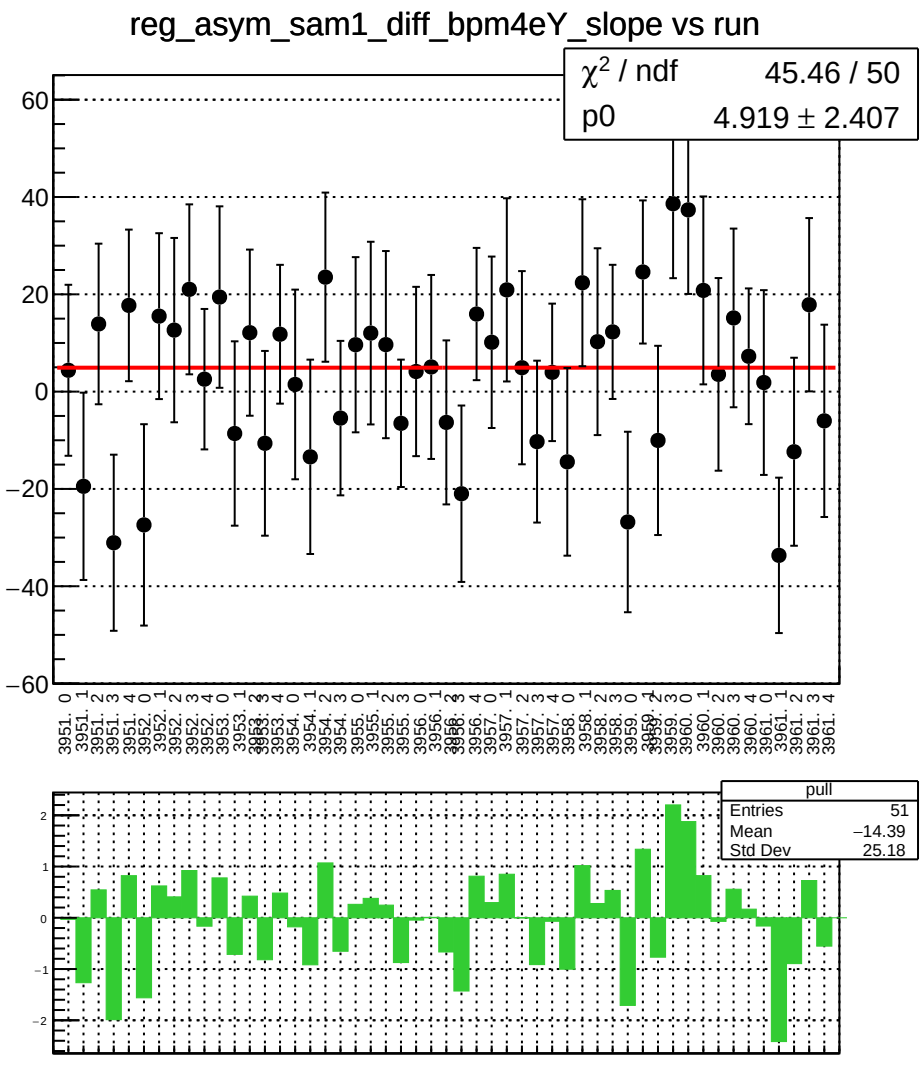

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 15.53 / 50
p0 5.586 ± 2.103
pull
Entries 51
Mean −77.49
Std Dev 107.5

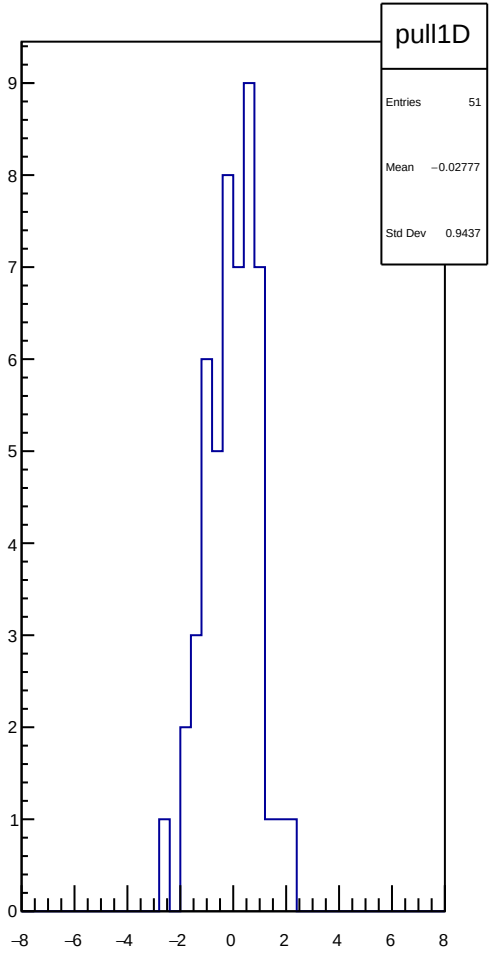

pull1D
Entries 51
Mean 0.01845
Std Dev 0.5516

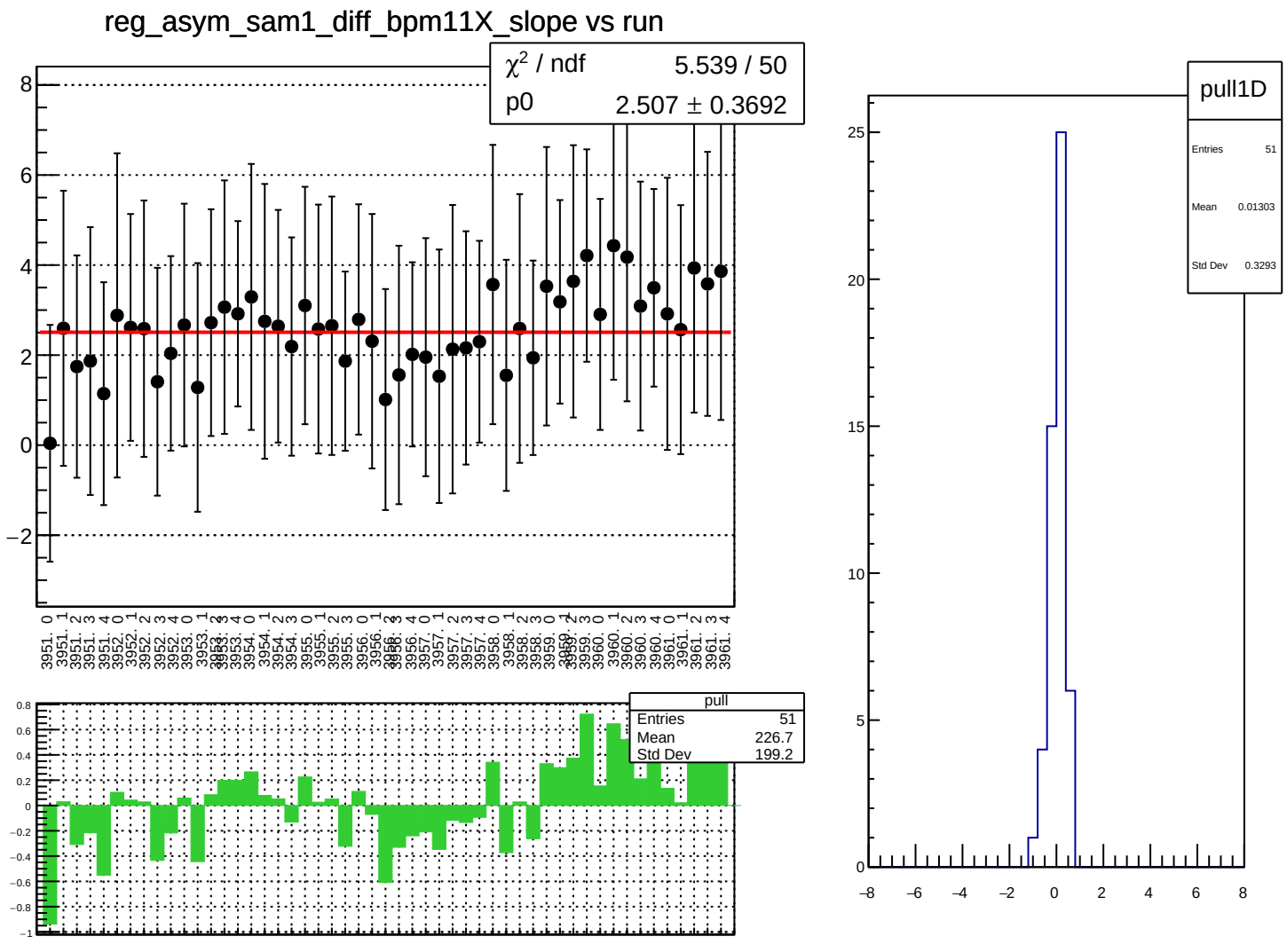

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 40.75 / 50
p0 −182.7 ± 1.44
pull
Entries 51
Mean −56.16
Std Dev 72.3
pull1D
Entries 51
Mean 0.02
Std Dev 0.8936

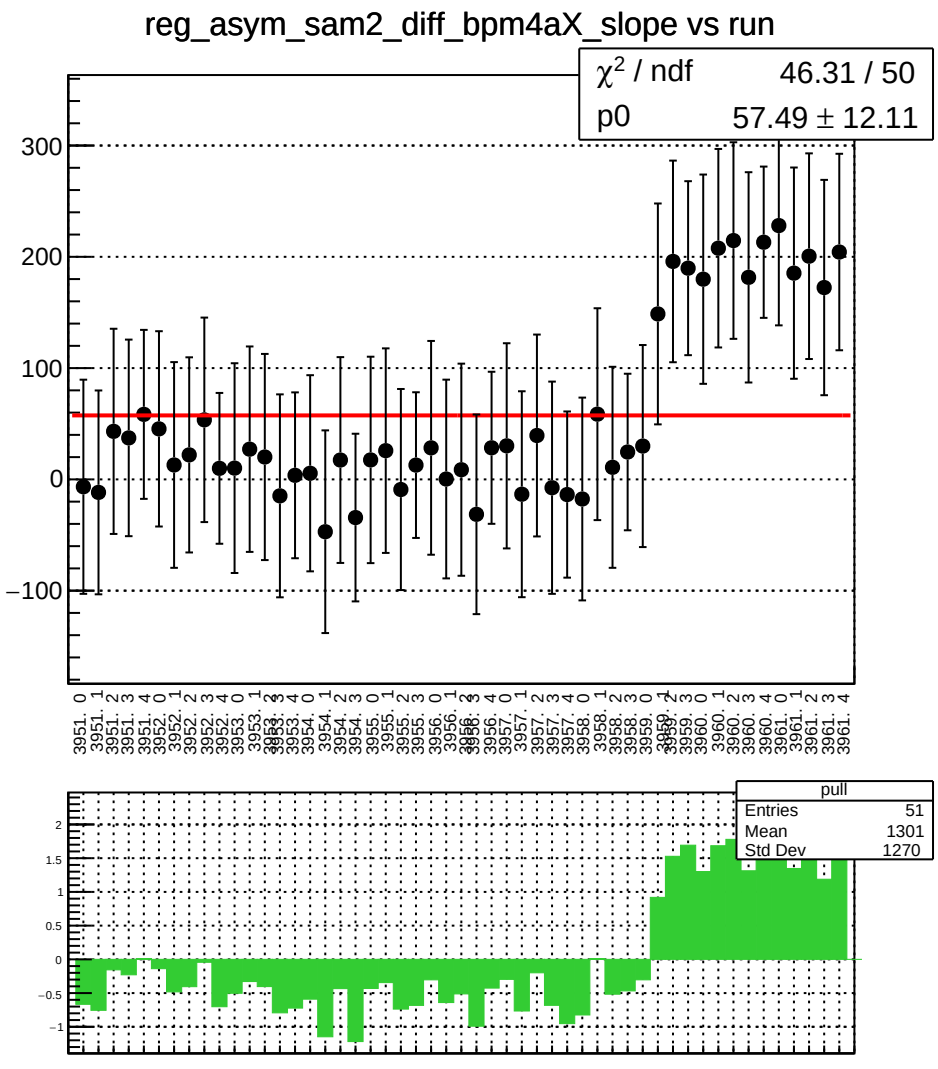

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 117.3 / 50
p0 −8.456 ± 0.3592
pull
Entries 51
Mean −6.49
Std Dev 41.12

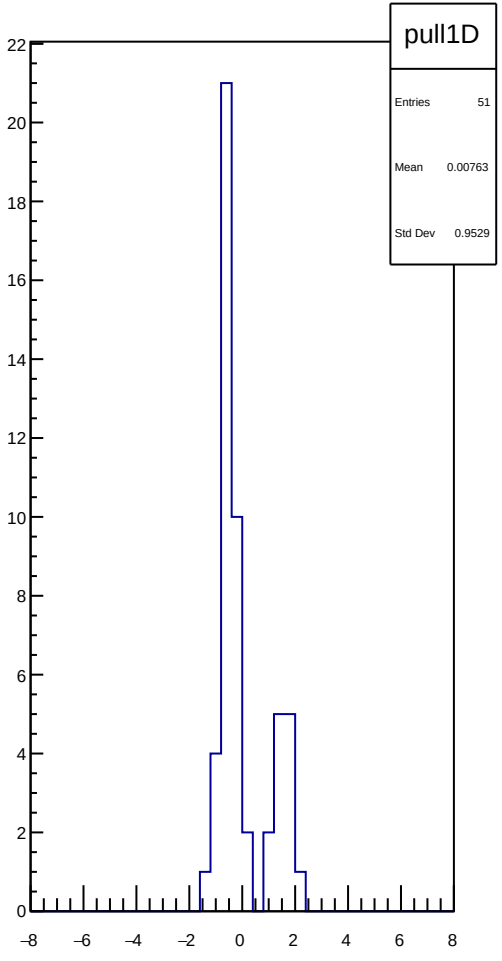

pull1D
Entries 51
Mean −0.06928
Std Dev 1.515

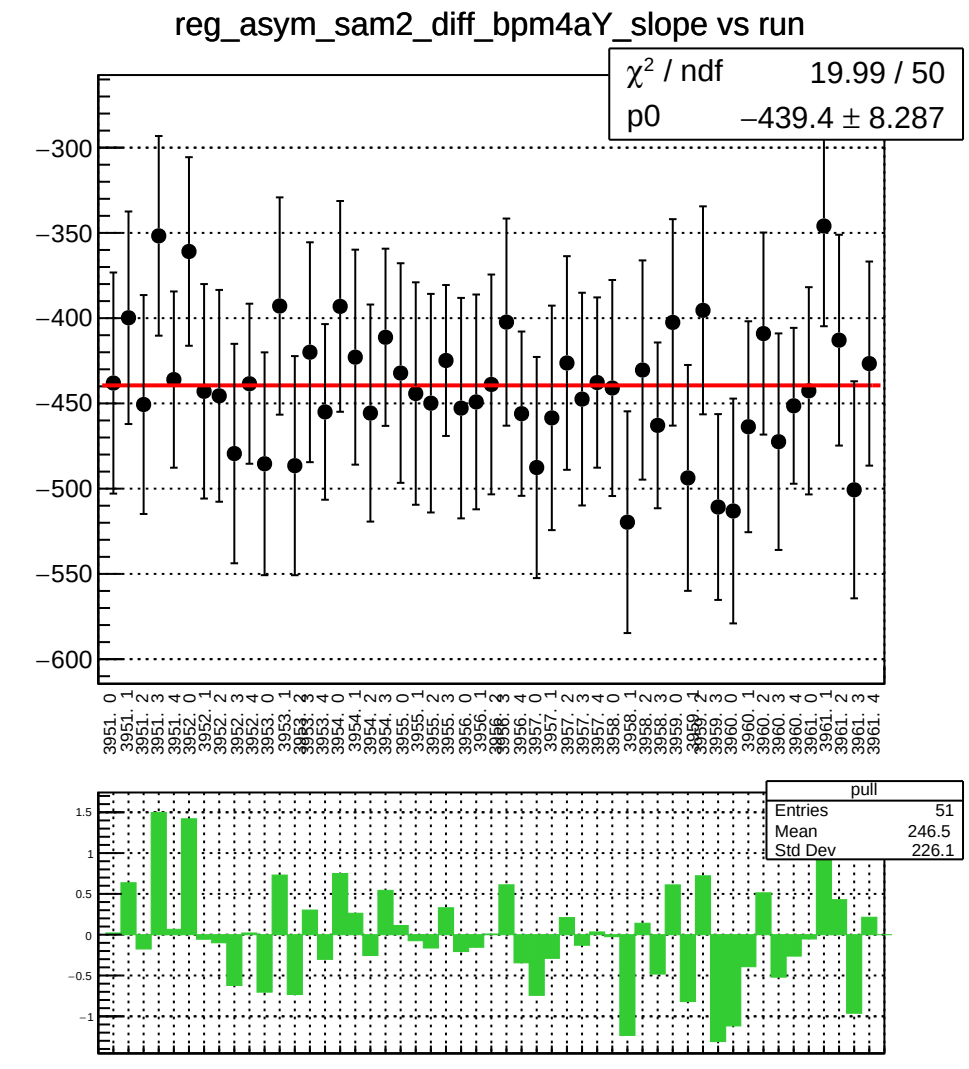

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 45.46 / 50
p0 4.919 ± 2.407
pull
Entries 51
Mean −14.39
Std Dev 25.18

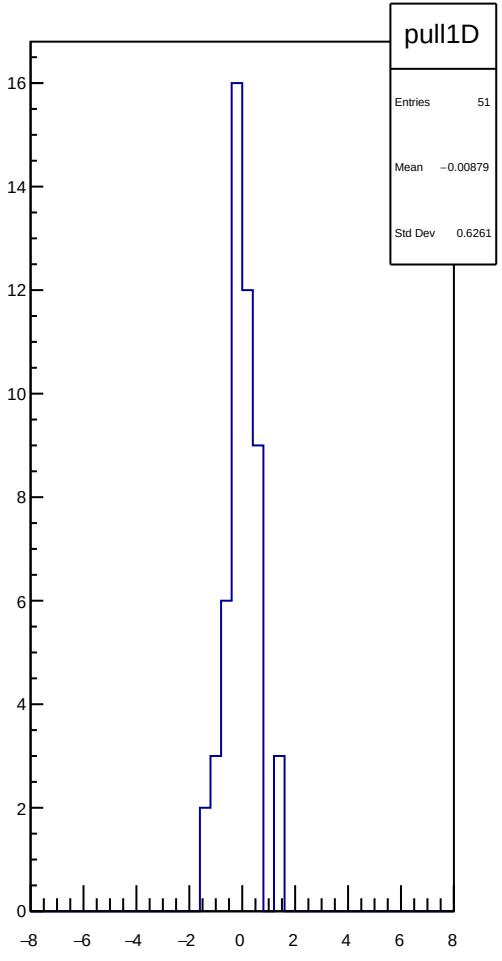

pull1D
Entries 51
Mean −0.02777
Std Dev 0.9437

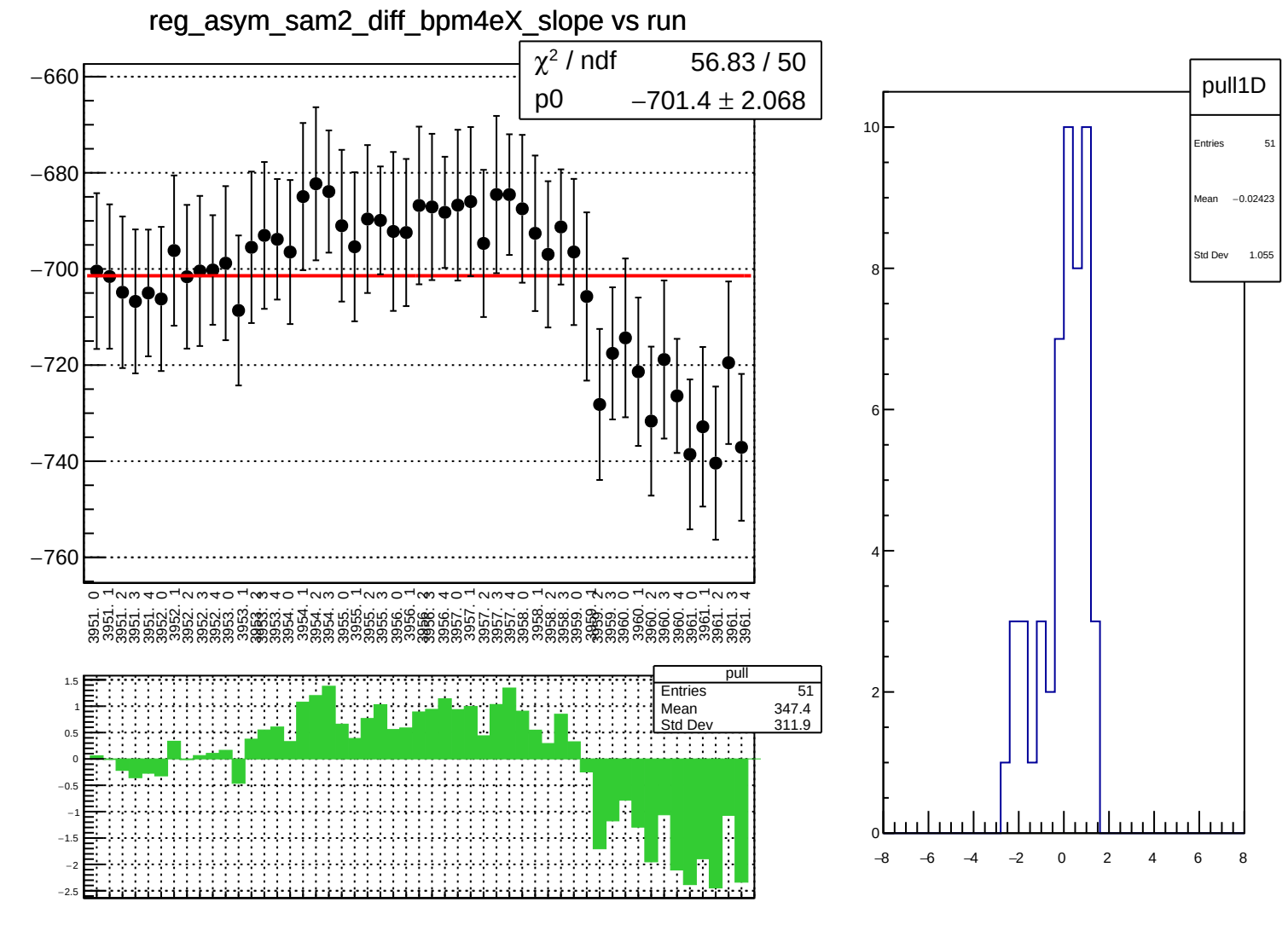

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 5.539 / 50
p0 2.507 ± 0.3692
pull
Entries 51
Mean 226.7
Std Dev 199.2
pull1D
Entries 51
Mean 0.01303
Std Dev 0.3293

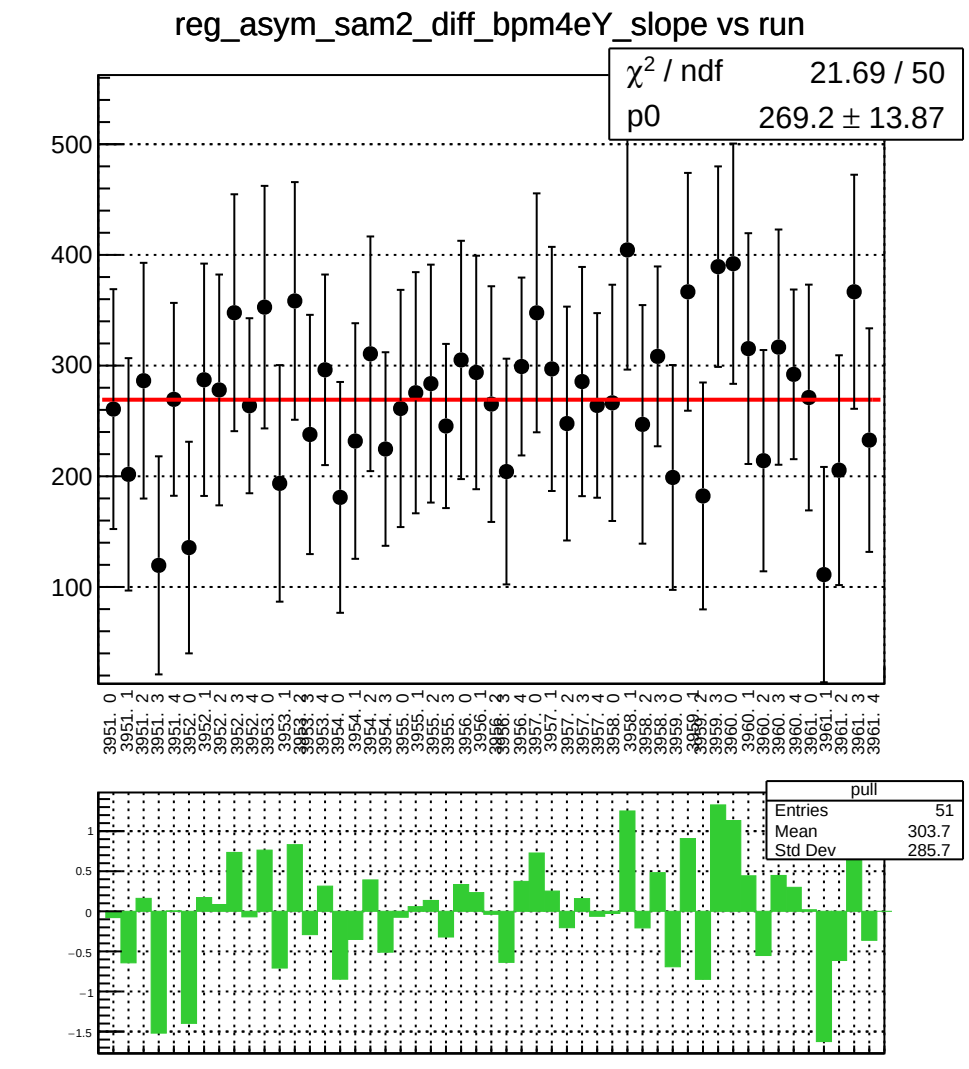

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 46.31 / 50
p0 57.49 ± 12.11
300
200
100
0
−100
pull
Entries 51
Mean 1301
Std Dev 1270
2
1.5
1
0.5
0
−0.5
−1

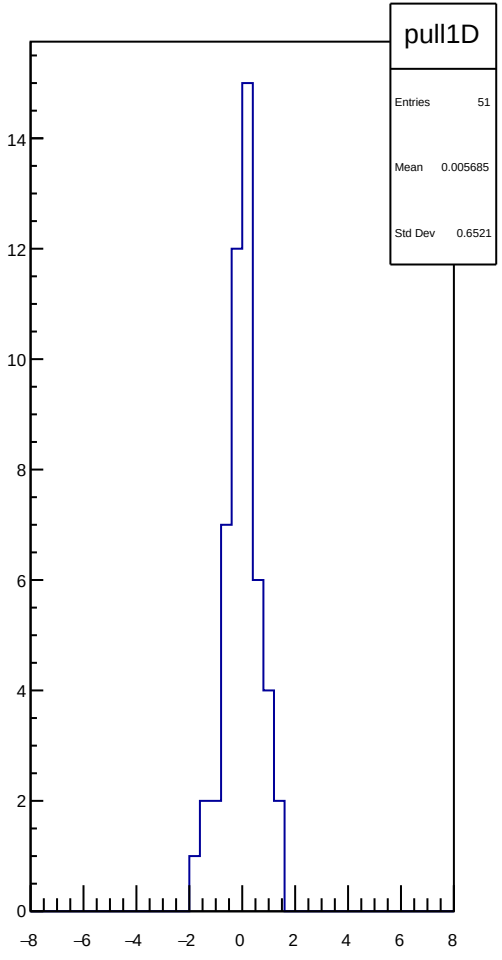

pull1D
Entries 51
Mean 0.00763
Std Dev 0.9529
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

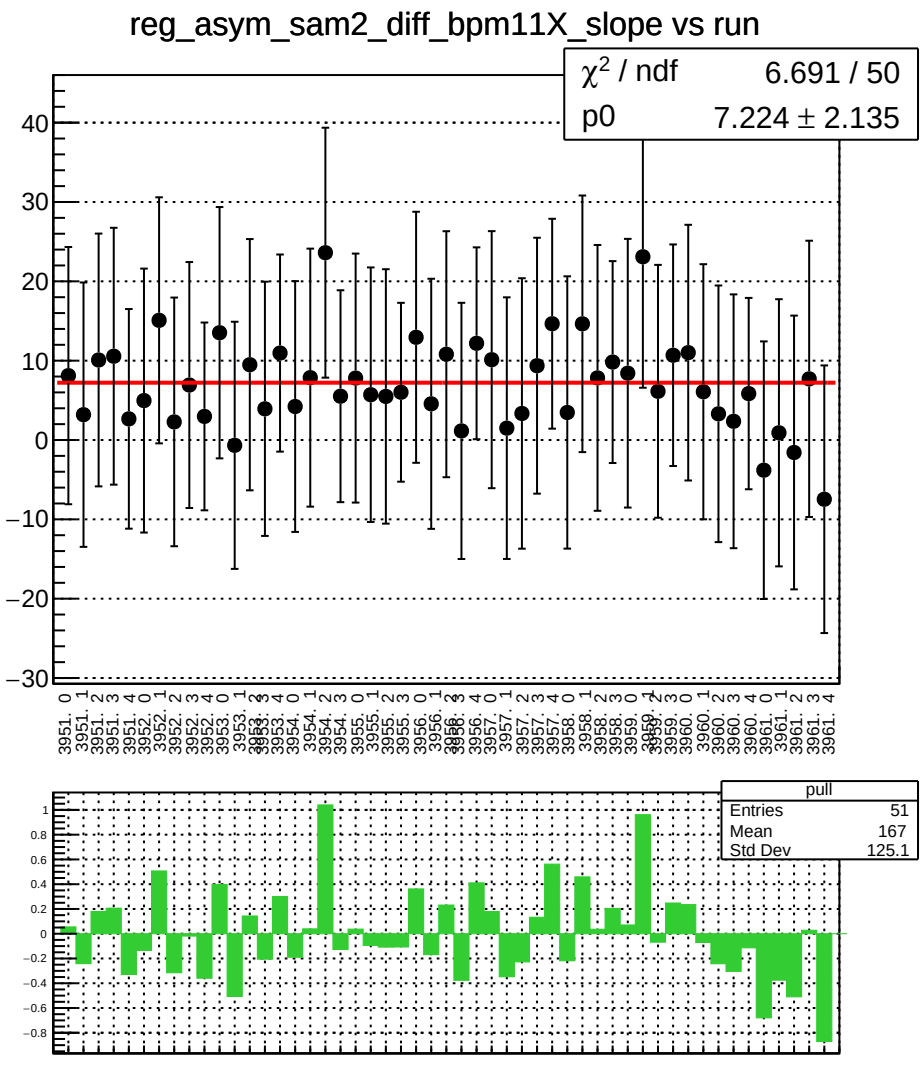

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 19.99 / 50
p0 −439.4 ± 8.287
pull
Entries 51
Mean 246.5
Std Dev 226.1

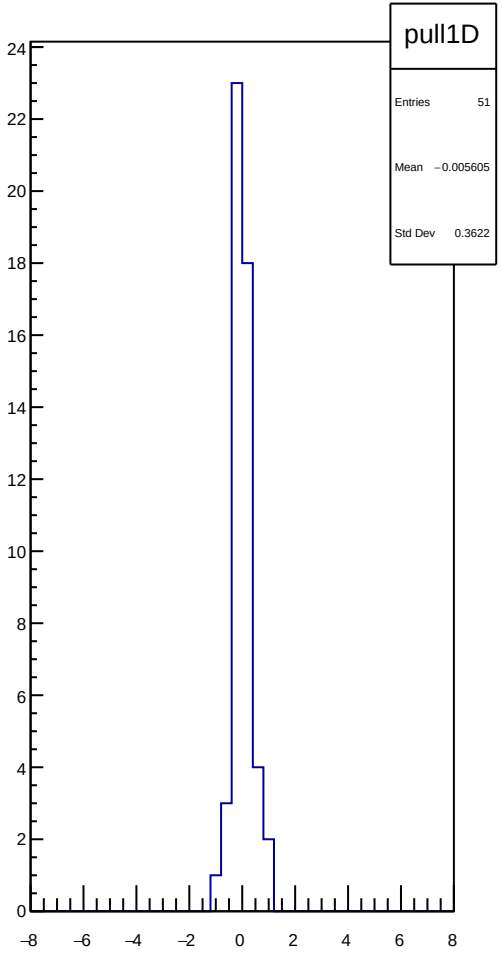

pull1D
Entries 51
Mean −0.00879
Std Dev 0.6261

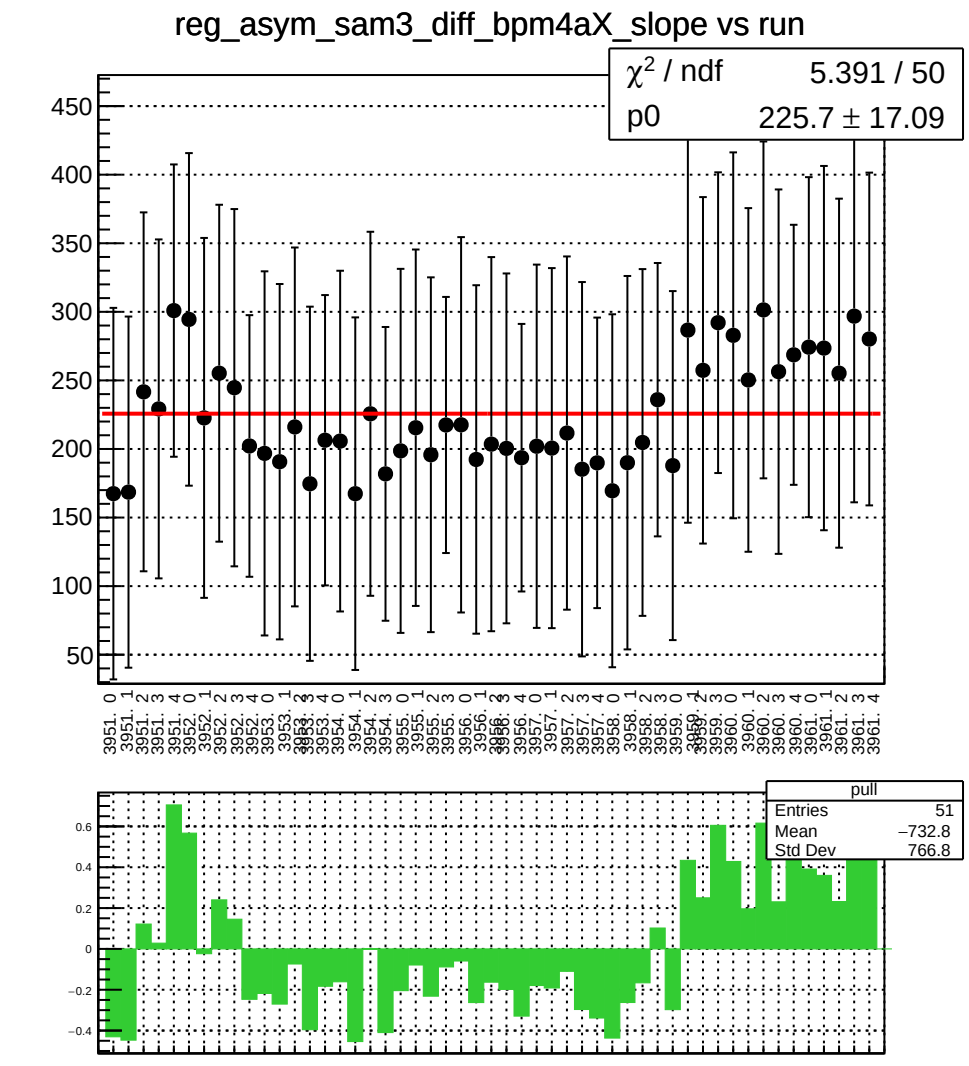

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 56.83 / 50
p0 −701.4 ± 2.068
pull
Entries 51
Mean 347.4
Std Dev 311.9
pull1D
Entries 51
Mean −0.02423
Std Dev 1.055

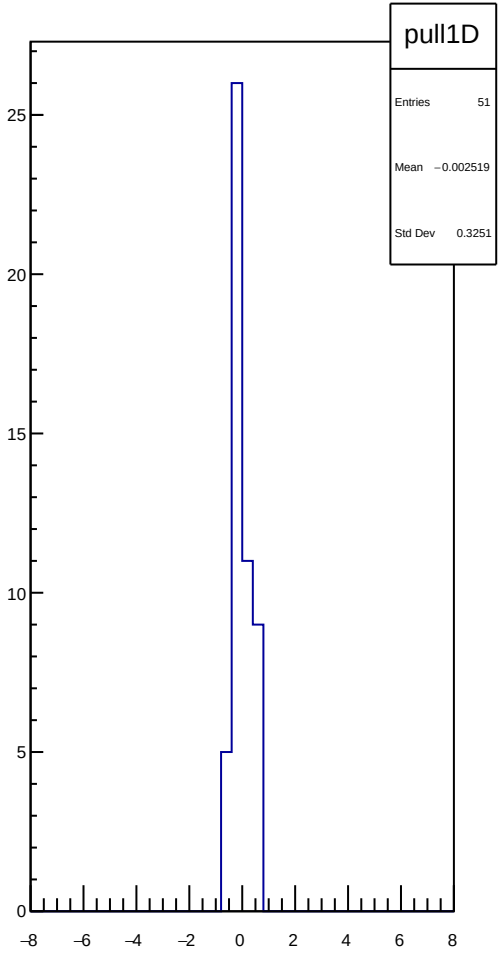

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 21.69 / 50
p0 269.2 ± 13.87
pull
Entries 51
Mean 303.7
Std Dev 285.7

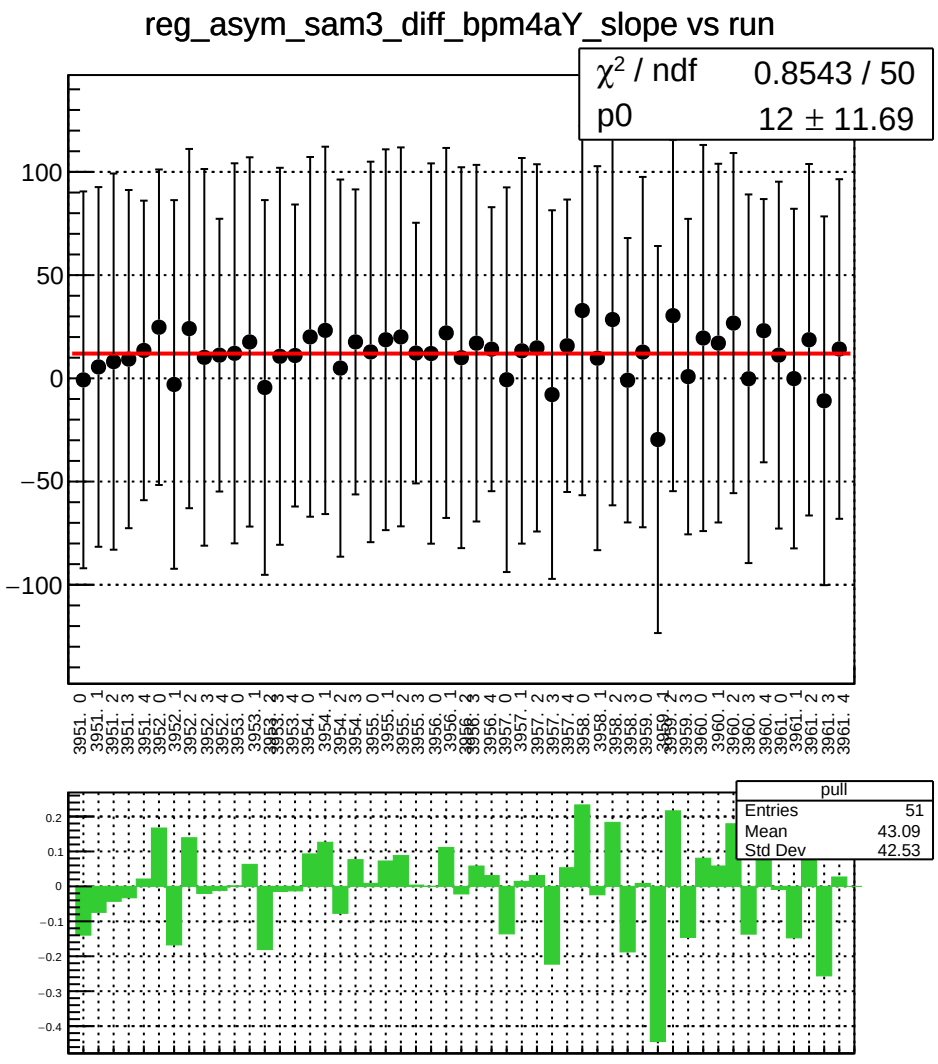

pull1D
Entries 51
Mean 0.005685
Std Dev 0.6521

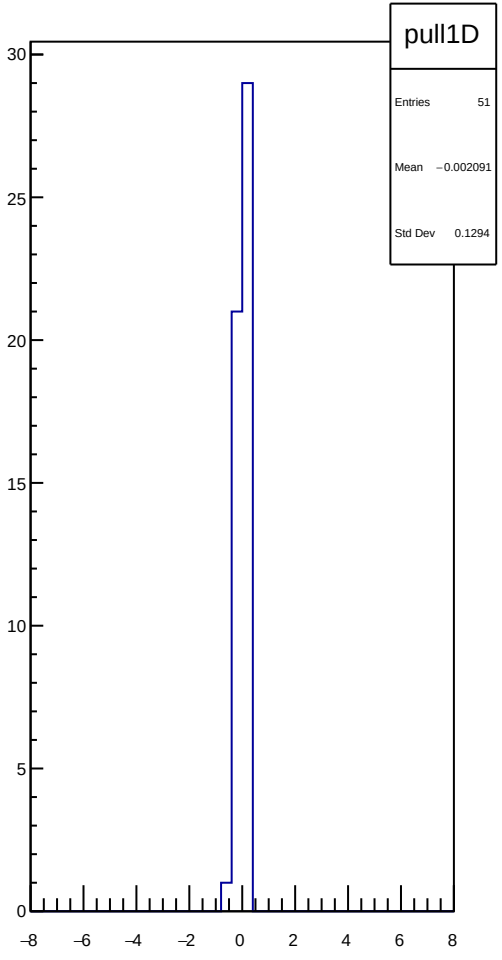

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 6.691 / 50
p0 7.224 ± 2.135
pull
Entries 51
Mean 167
Std Dev 125.1

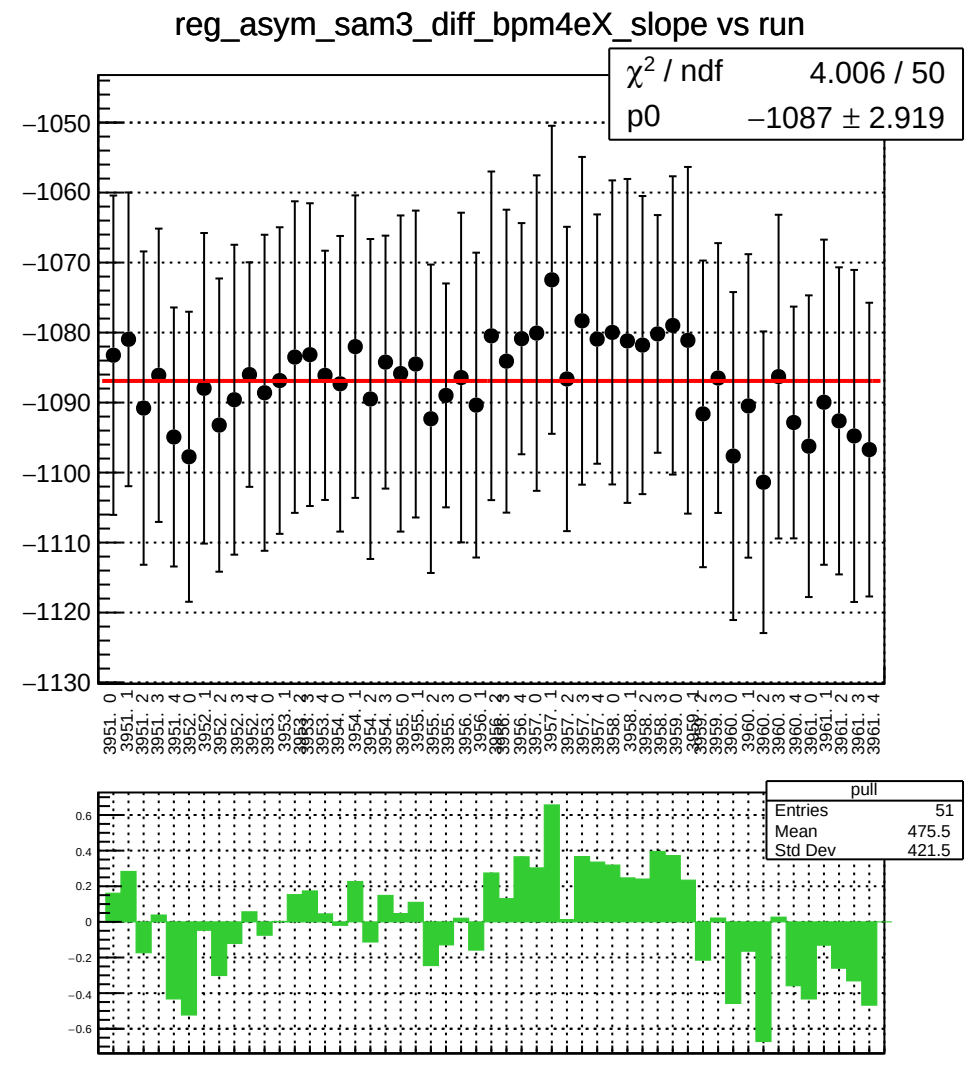

pull1D
Entries 51
Mean −0.005605
Std Dev 0.3622

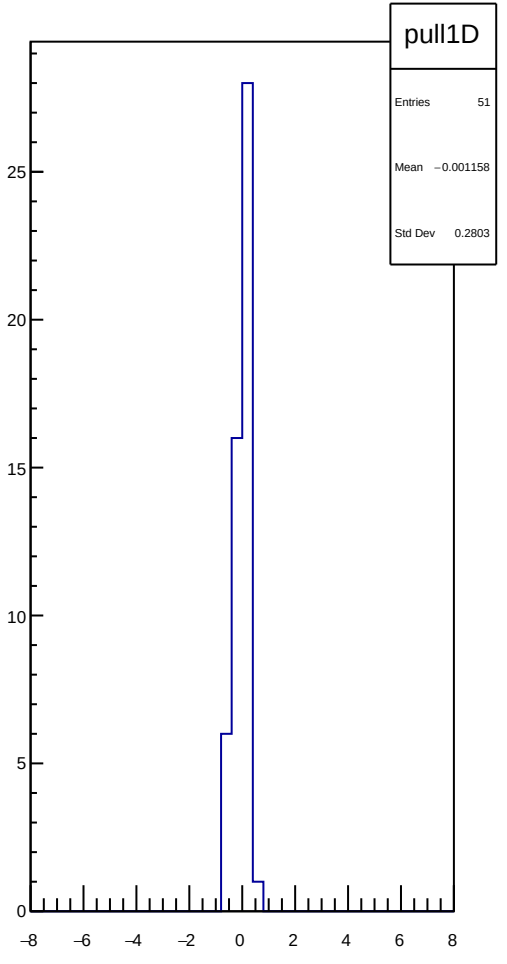

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 5.391 / 50
p0 225.7 ± 17.09
pull
Entries 51
Mean −732.8
Std Dev 766.8

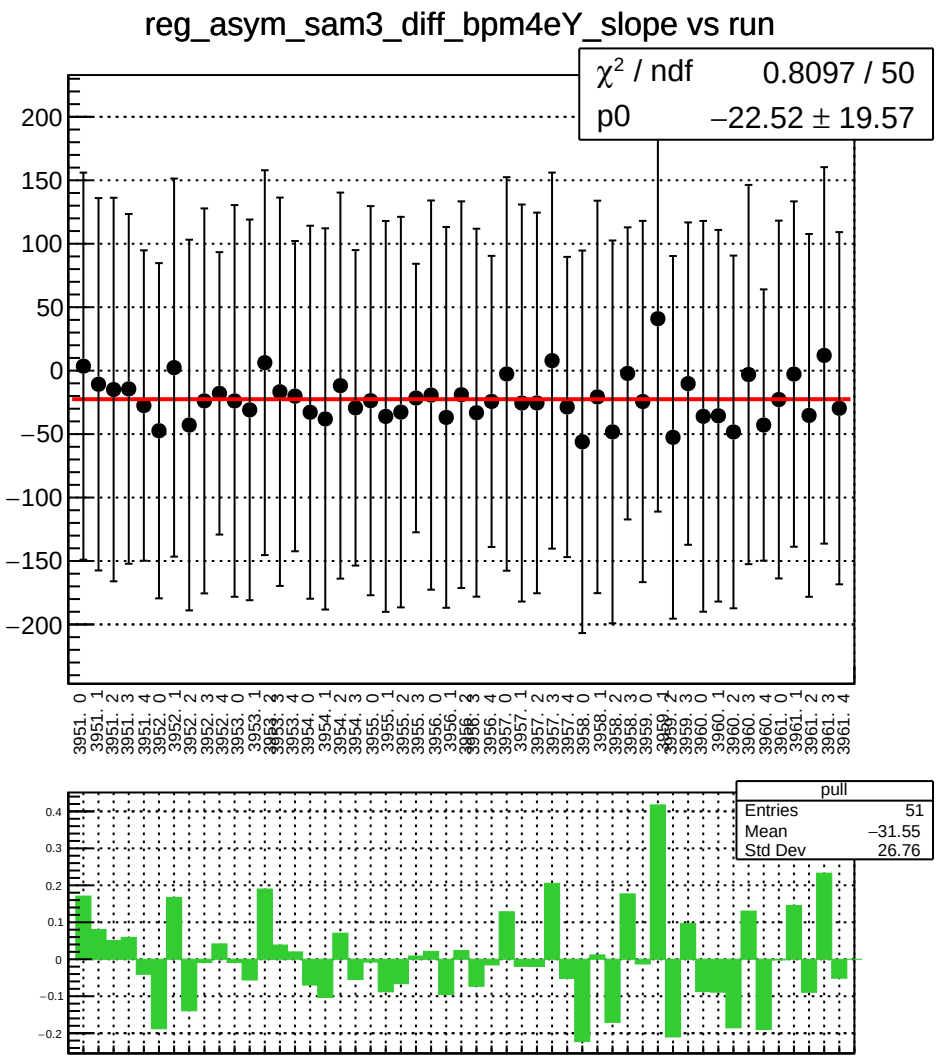

pull1D
Entries 51
Mean −0.002519
Std Dev 0.3251

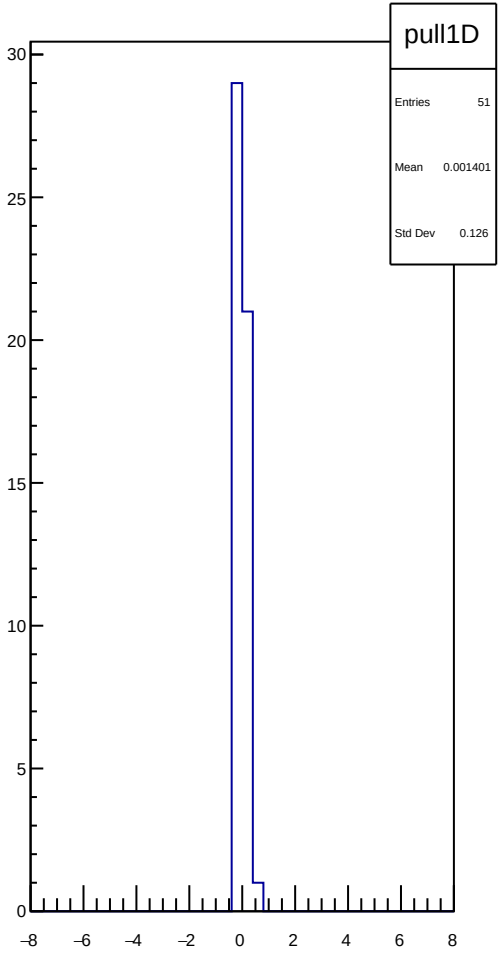

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.8543 / 50
p0 12 ± 11.69
pull
Entries 51
Mean 43.09
Std Dev 42.53

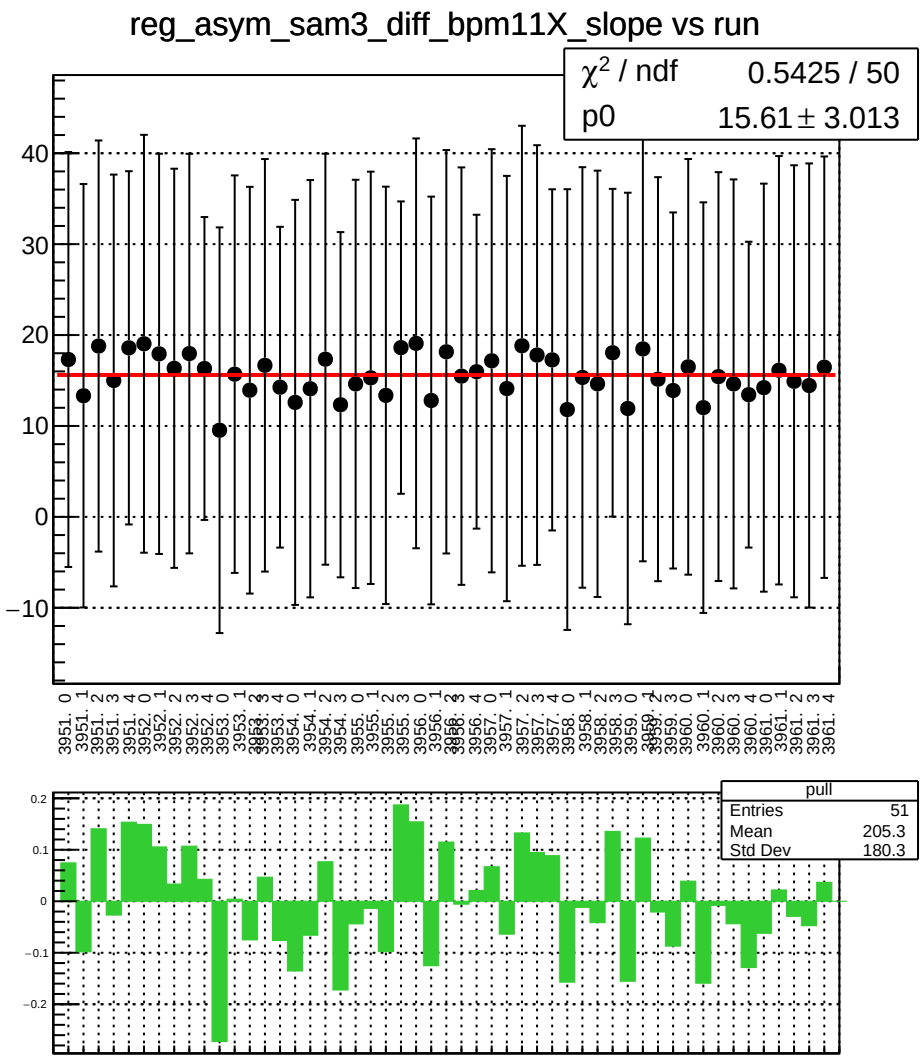

pull1D
Entries 51
Mean −0.002091
Std Dev 0.1294

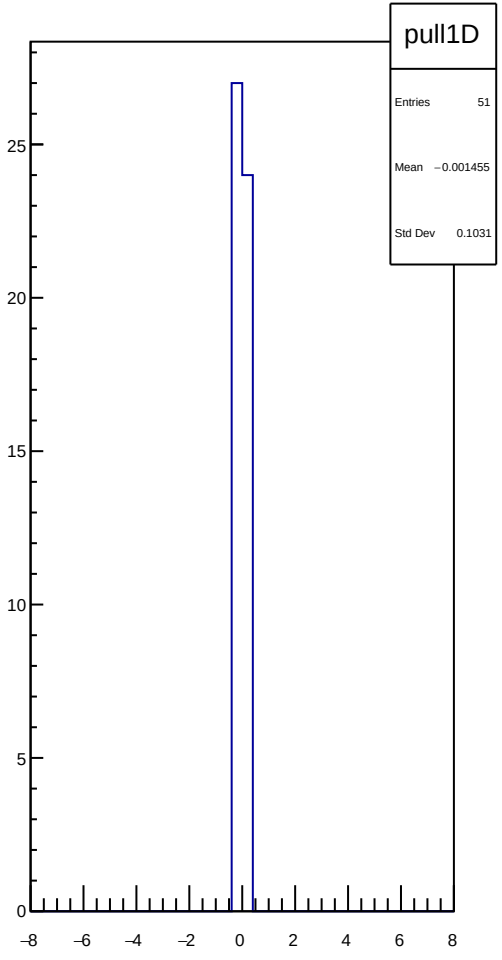

reg_asym_sam3_diff_bpm4eX_slope vs run
χ^2 / ndf 4.006 / 50
p0 −1087 ± 2.919
−1050
−1060
−1070
−1080
−1090
−1100
−1110
−1120
−1130
pull
Entries 51
Mean 475.5
Std Dev 421.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

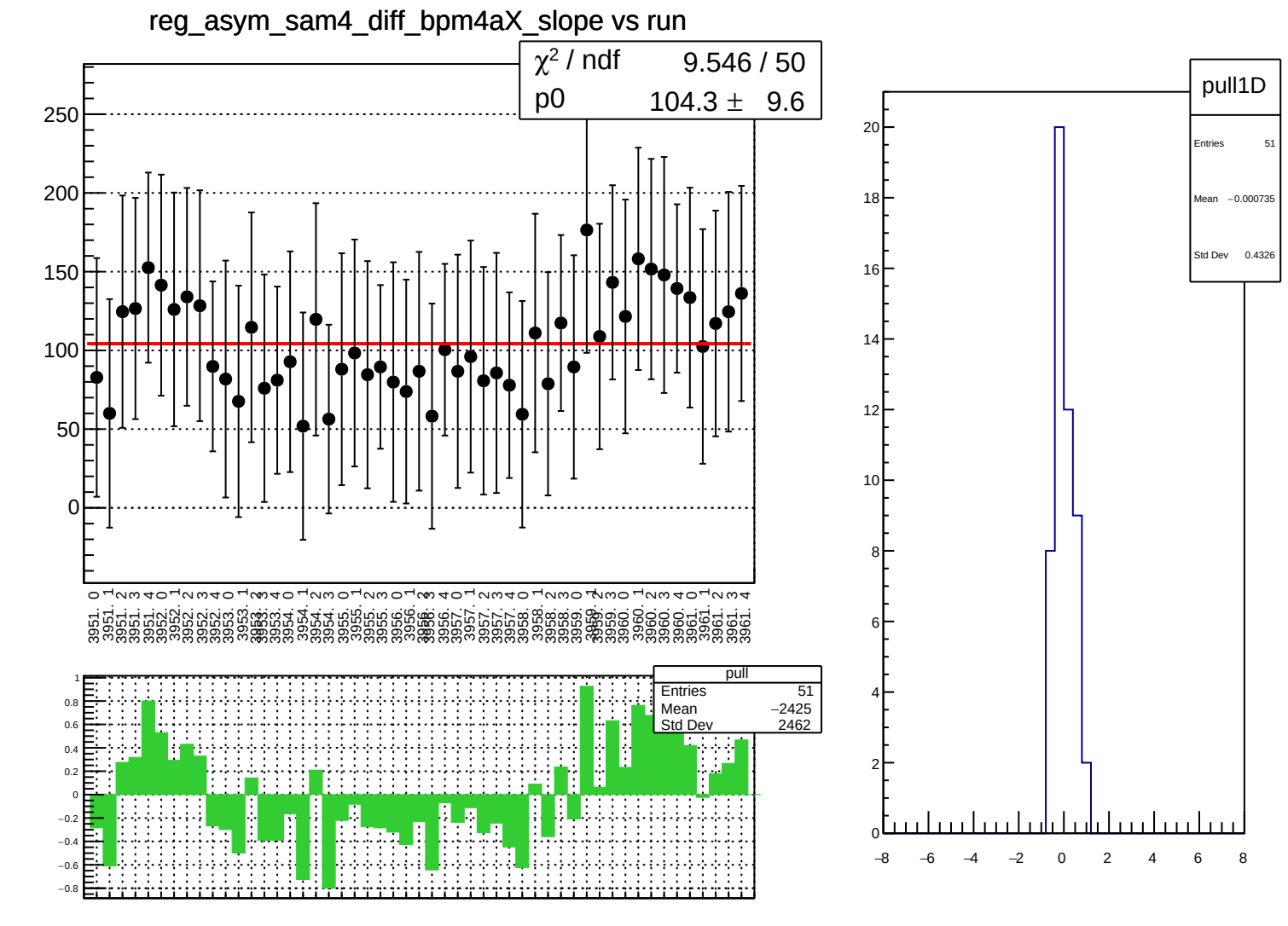

pull1D
Entries 51
Mean −0.001158
Std Dev 0.2803
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

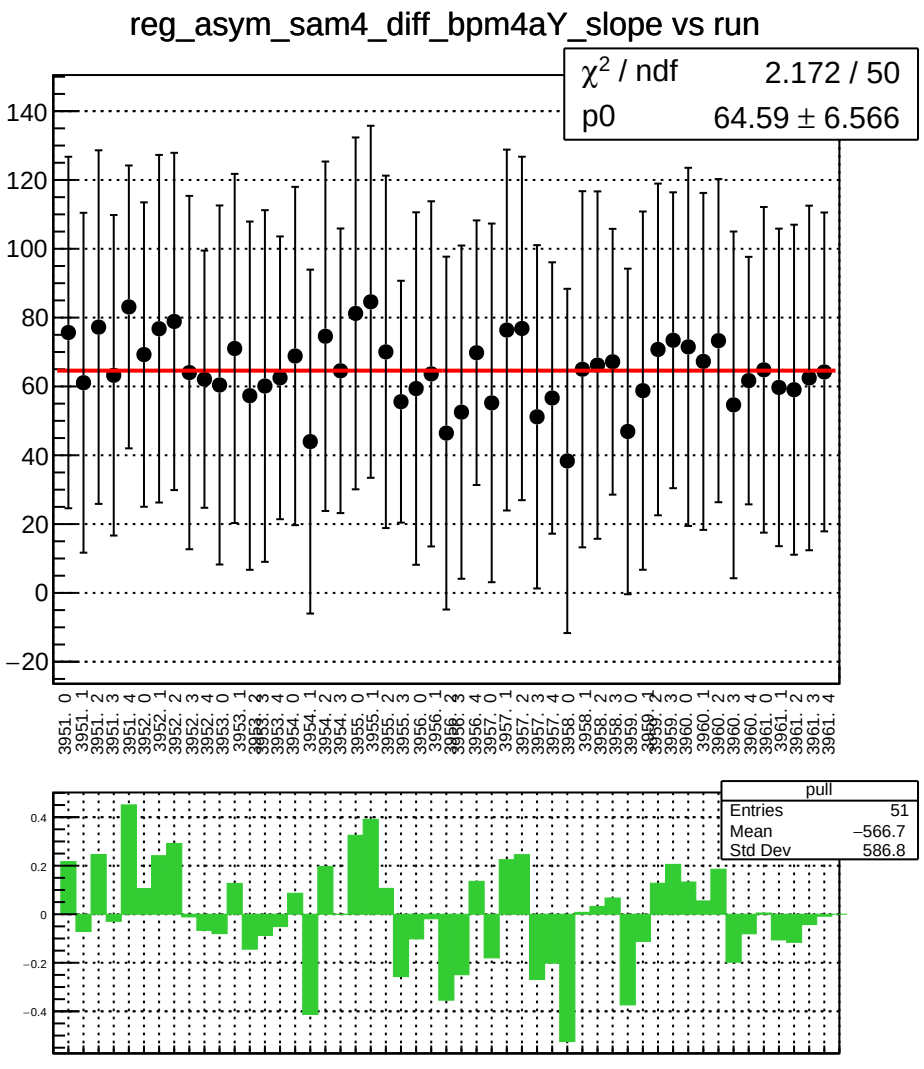

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.8097 / 50
p0 −22.52 ± 19.57
pull
Entries 51
Mean −31.55
Std Dev 26.76

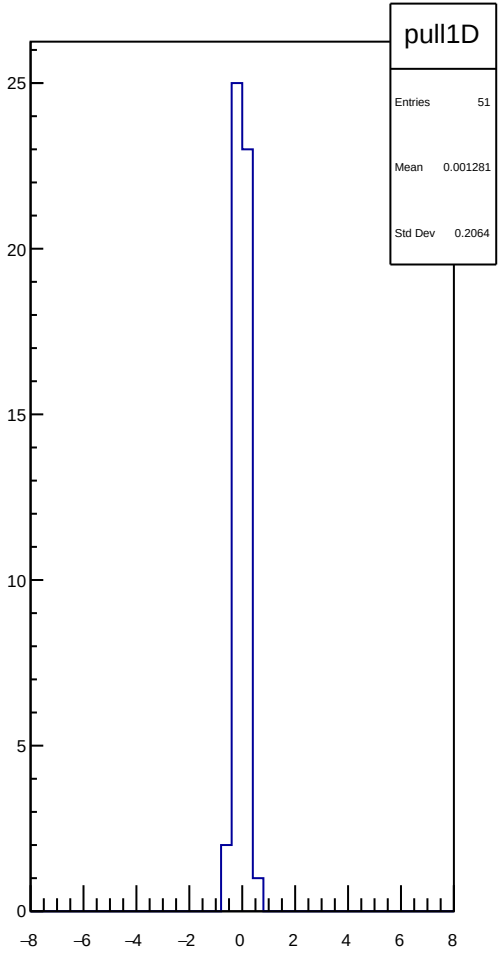

pull1D
Entries 51
Mean 0.001401
Std Dev 0.126

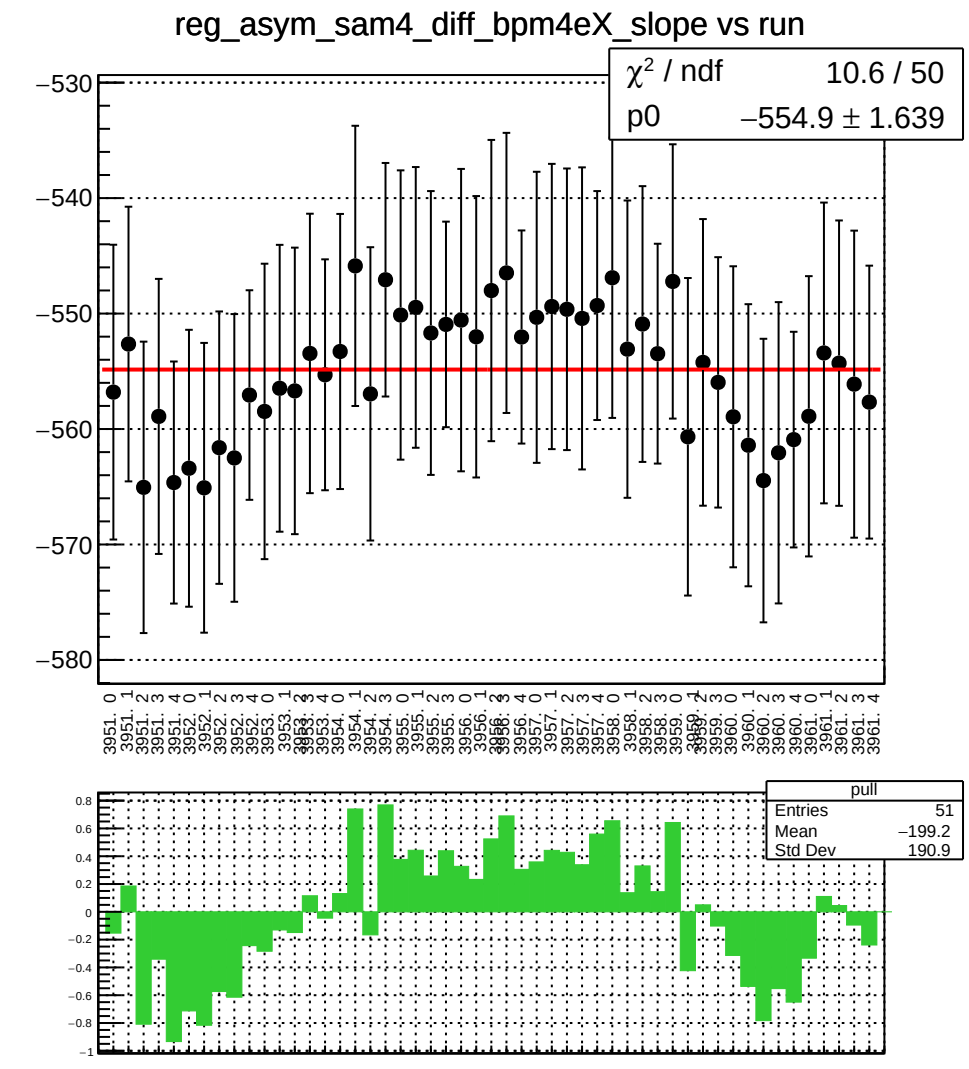

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 0.5425 / 50
p0 15.61 ± 3.013
pull
Entries 51
Mean 205.3
Std Dev 180.3

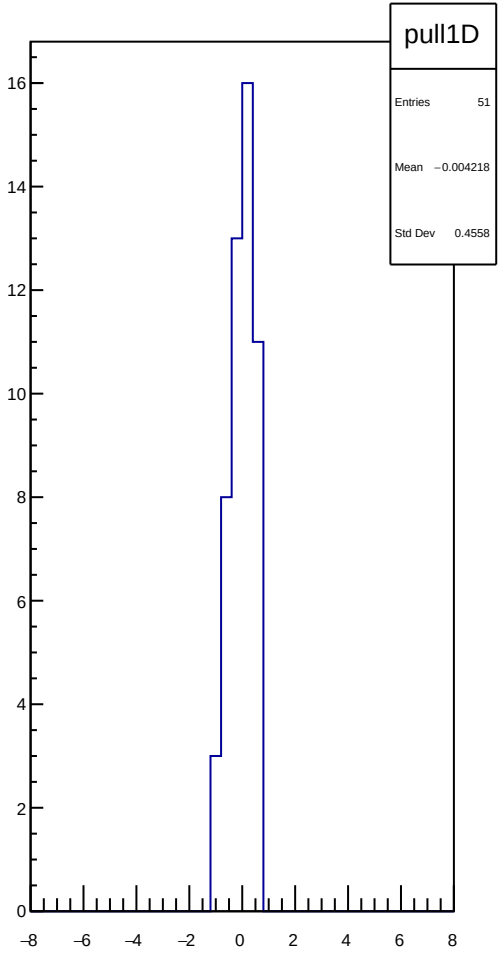

pull1D
Entries 51
Mean −0.001455
Std Dev 0.1031

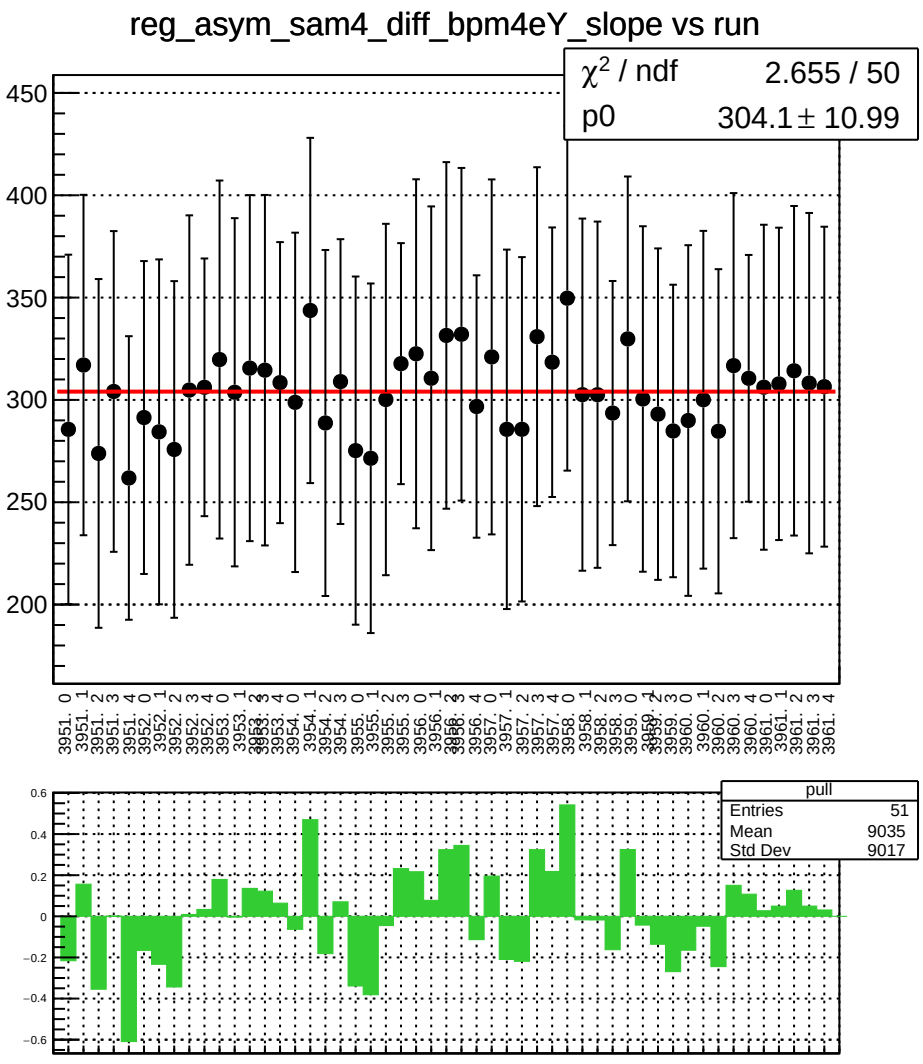

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 9.546 / 50
p0 104.3 ± 9.6
pull
Entries 51
Mean −2425
Std Dev 2462
pull1D
Entries 51
Mean −0.000735
Std Dev 0.4326

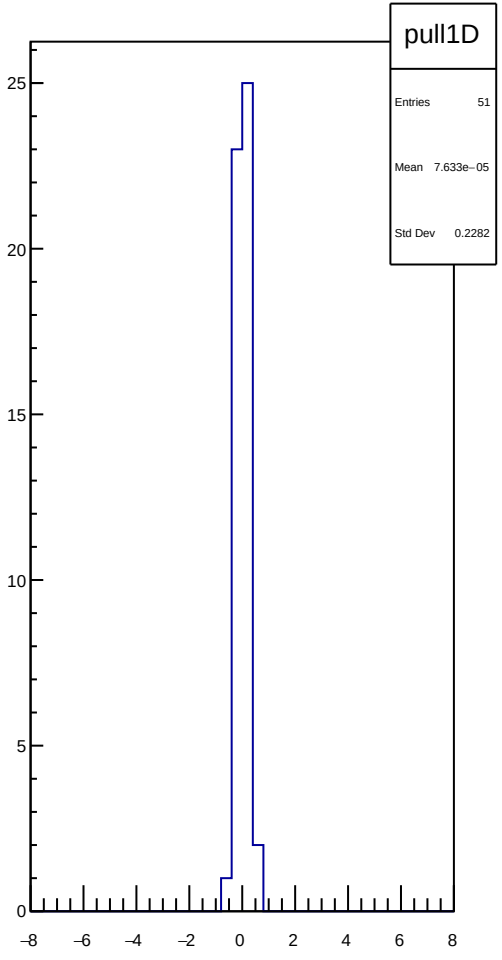

reg_asym_sam4_diff_bpm4aY_slope vs run
χ^2 / ndf 2.172 / 50
p0 64.59 ± 6.566
pull
Entries 51
Mean −566.7
Std Dev 586.8

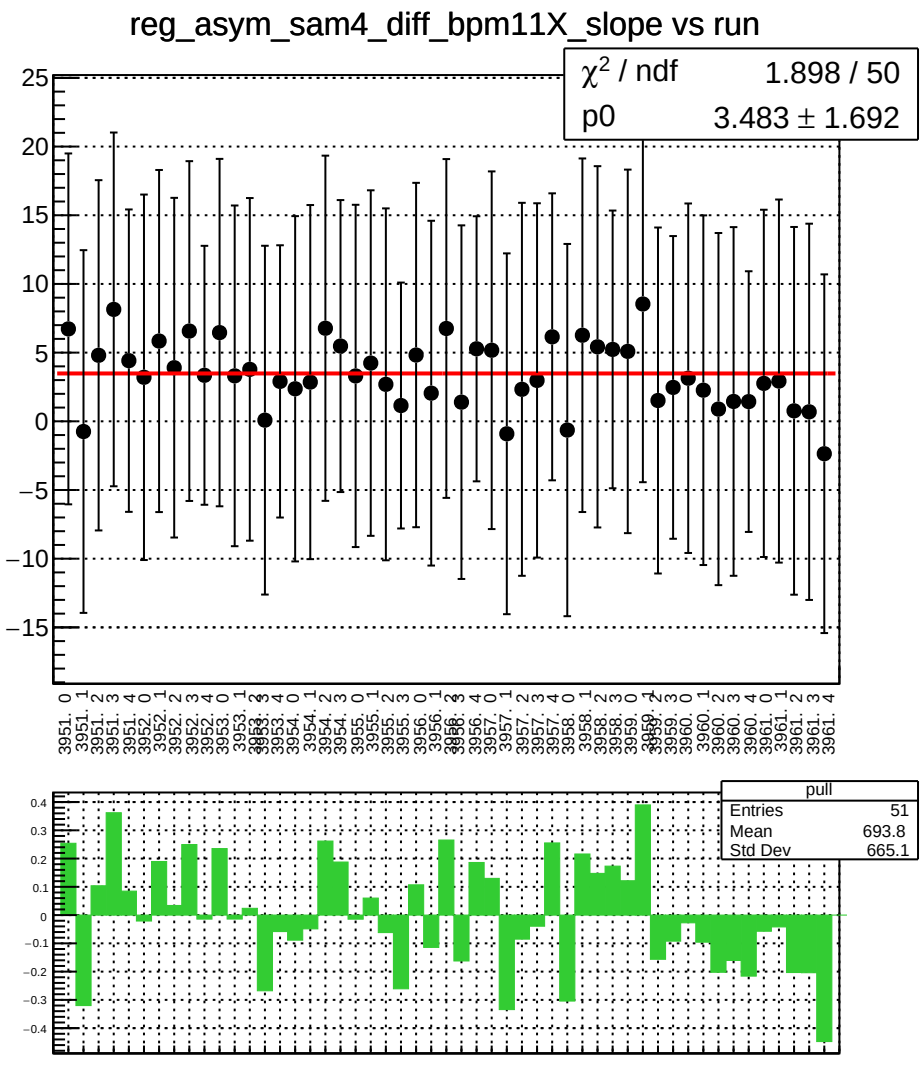

pull1D
Entries 51
Mean 0.001281
Std Dev 0.2064

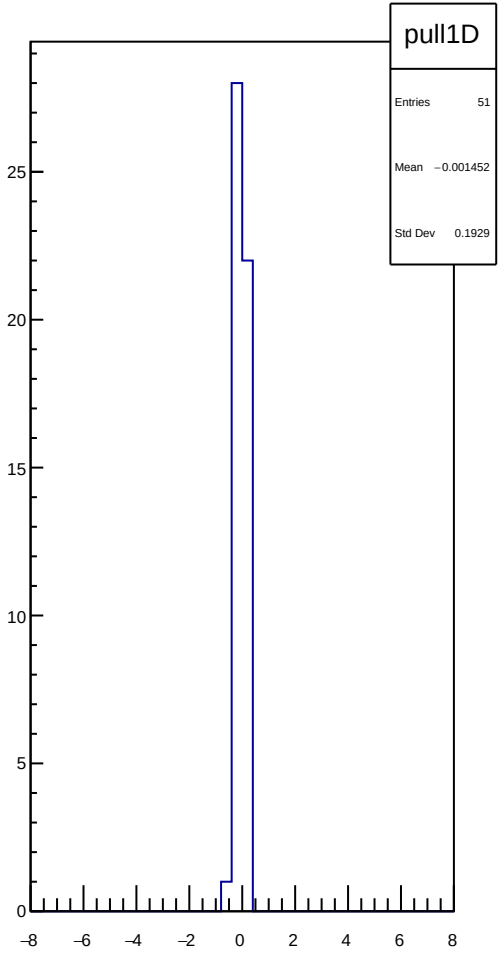

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 10.6 / 50
p0 −554.9 ± 1.639
pull
Entries 51
Mean −199.2
Std Dev 190.9

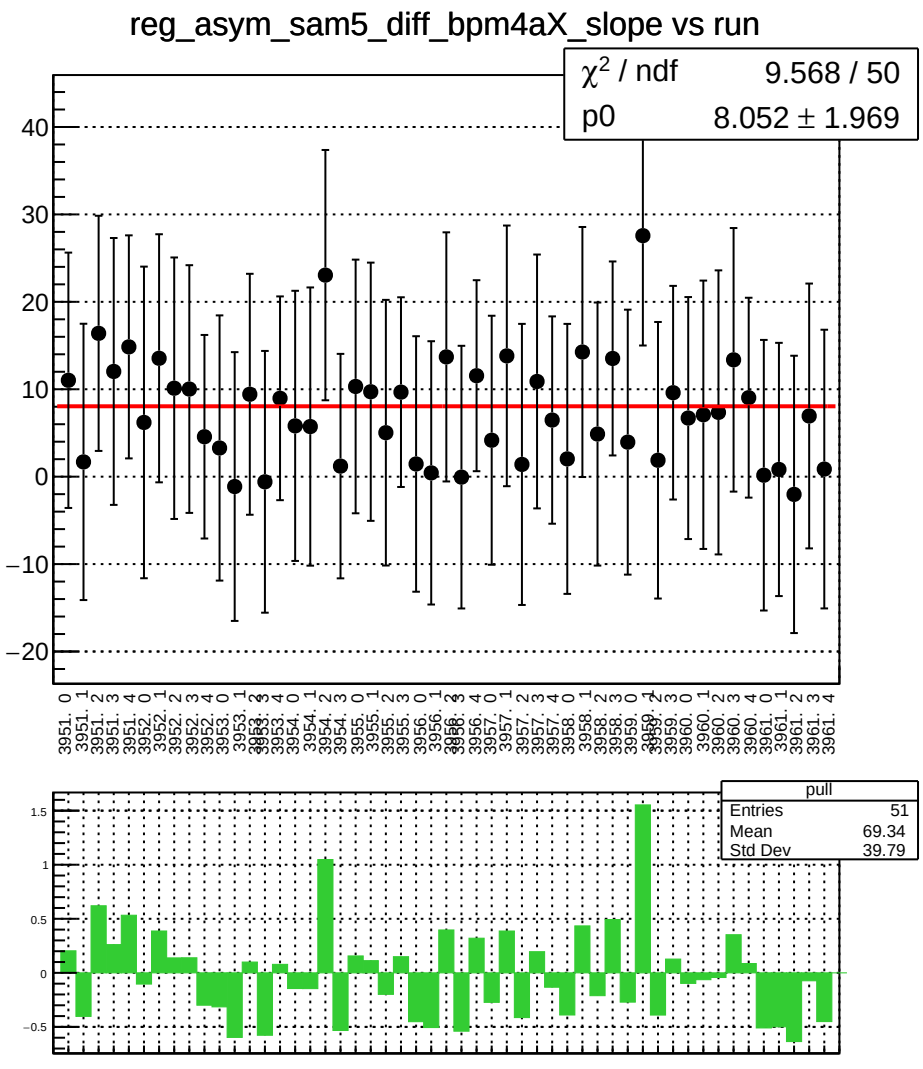

pull1D
Entries 51
Mean −0.004218
Std Dev 0.4558

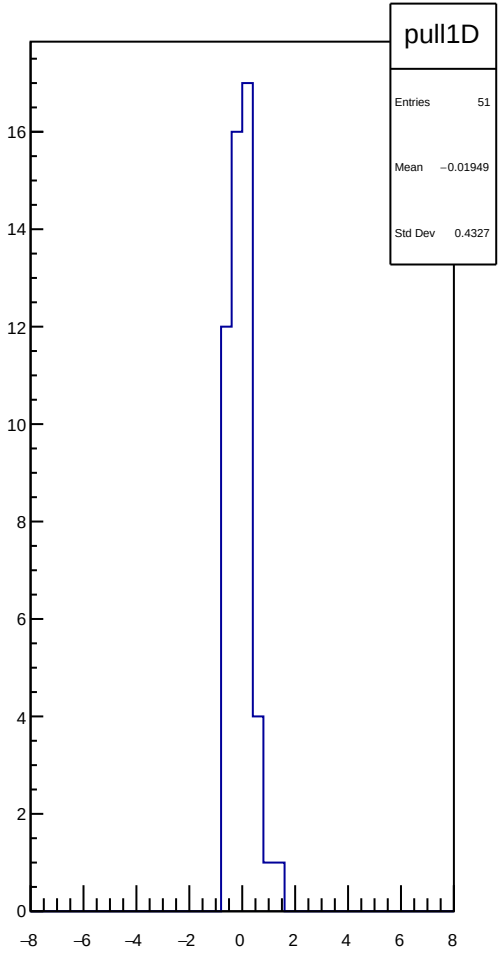

reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 2.655 / 50
p0 304.1 ± 10.99
pull
Entries 51
Mean 9035
Std Dev 9017

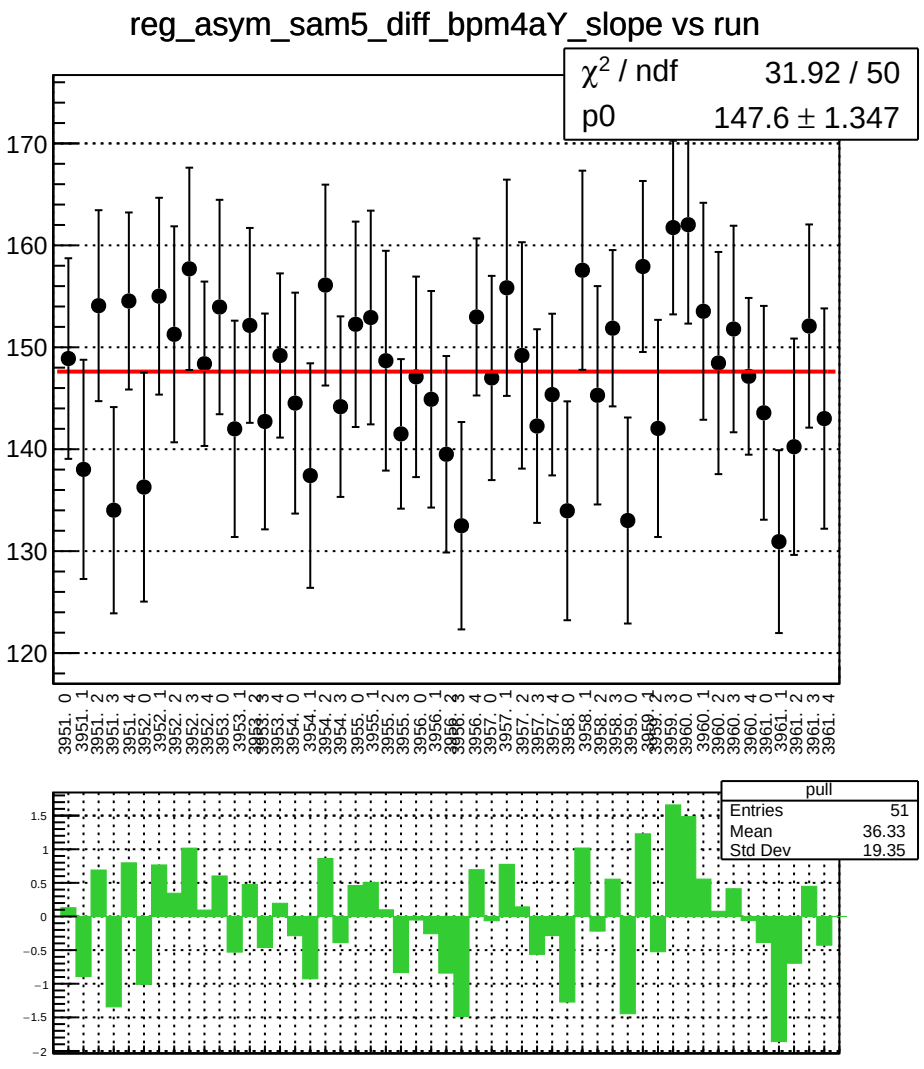

pull1D
Entries 51
Mean 7.633e−05
Std Dev 0.2282

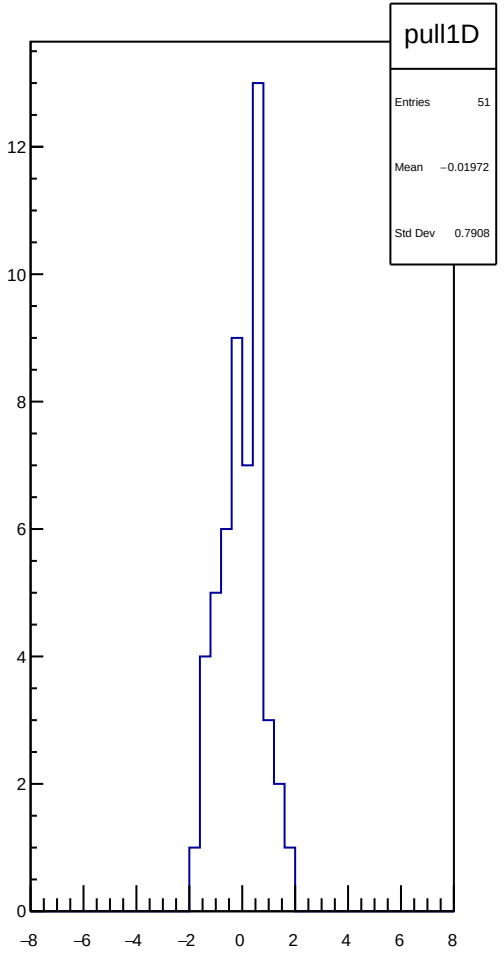

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 1.898 / 50
p0 3.483 ± 1.692
pull
Entries 51
Mean 693.8
Std Dev 665.1

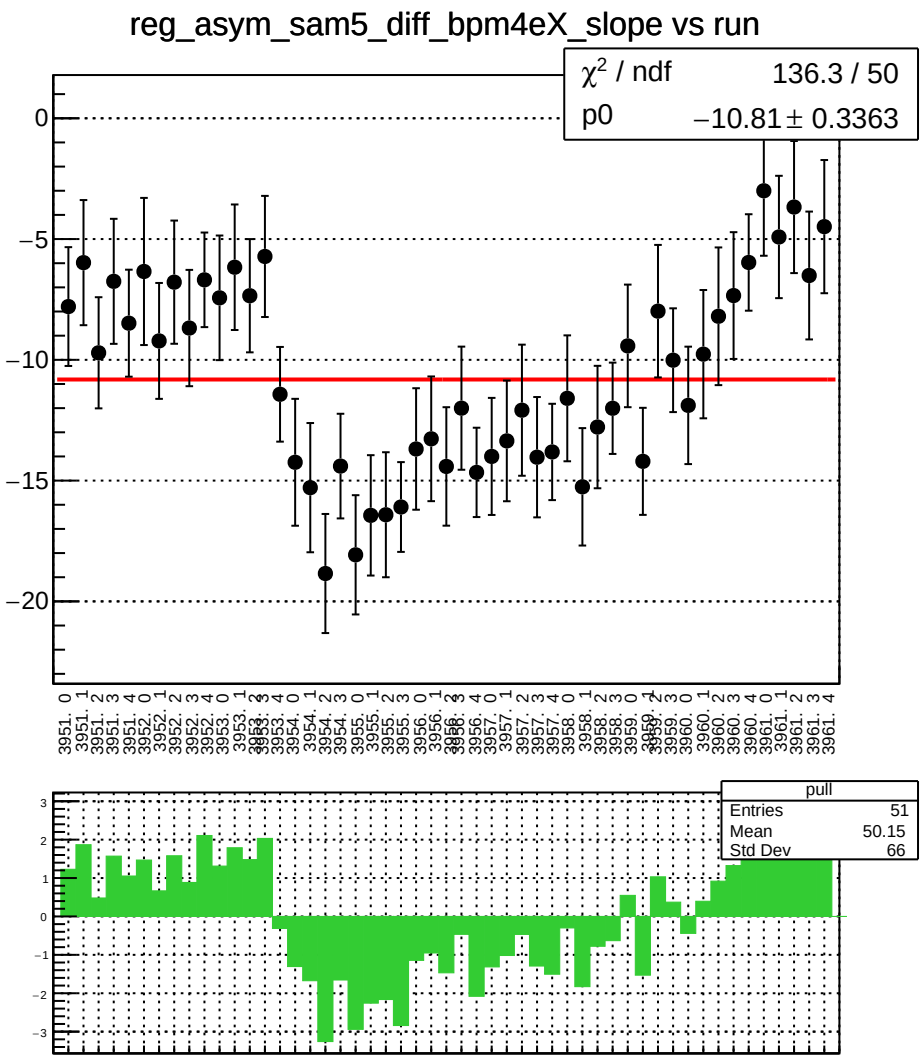

pull1D
Entries 51
Mean −0.001452
Std Dev 0.1929

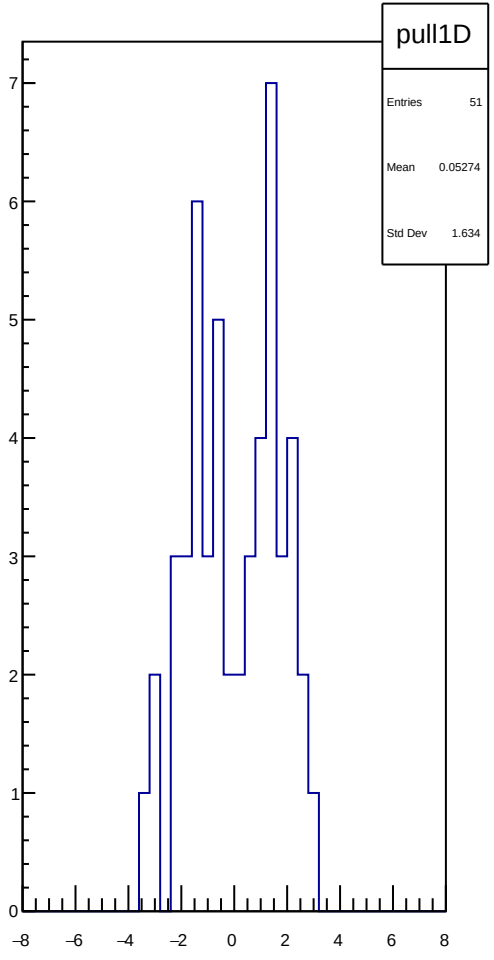

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 9.568 / 50
p0 8.052 ± 1.969
pull
Entries 51
Mean 69.34
Std Dev 39.79

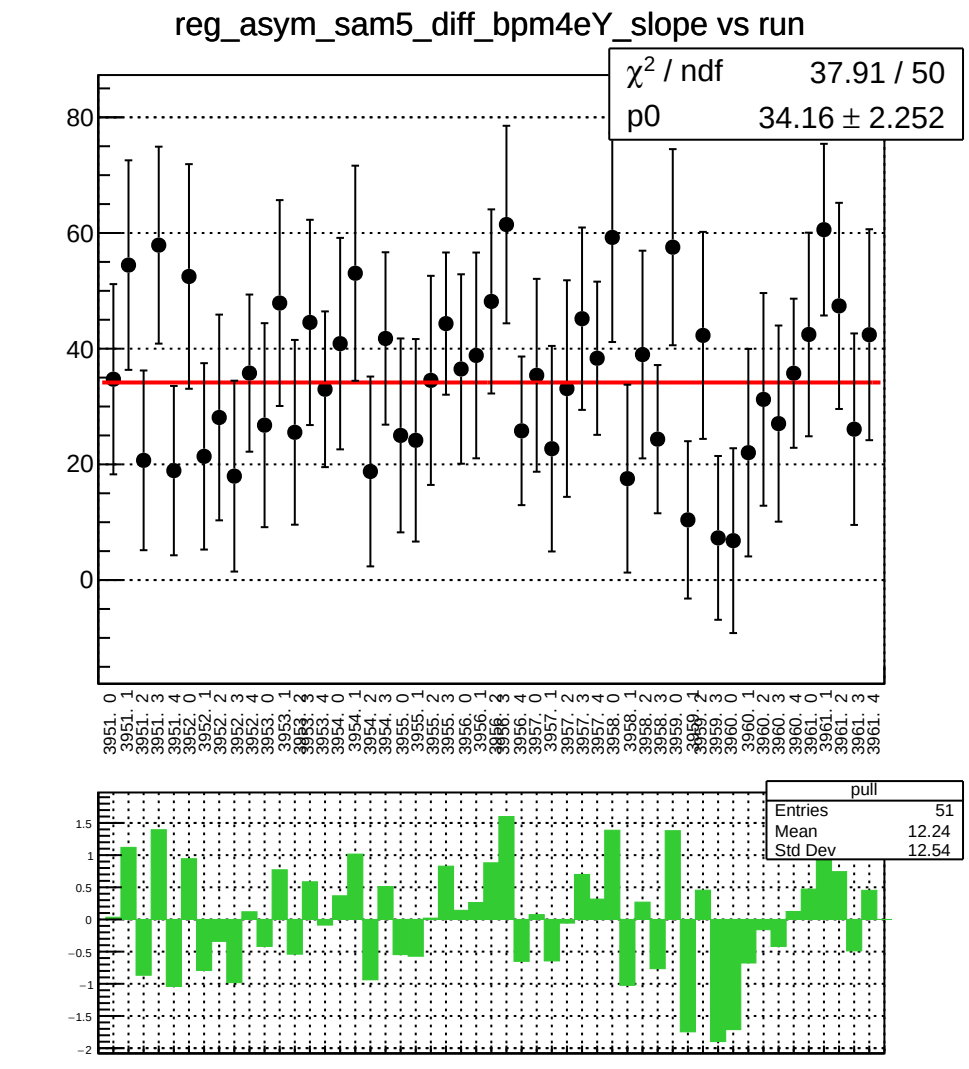

pull1D
Entries 51
Mean −0.01949
Std Dev 0.4327

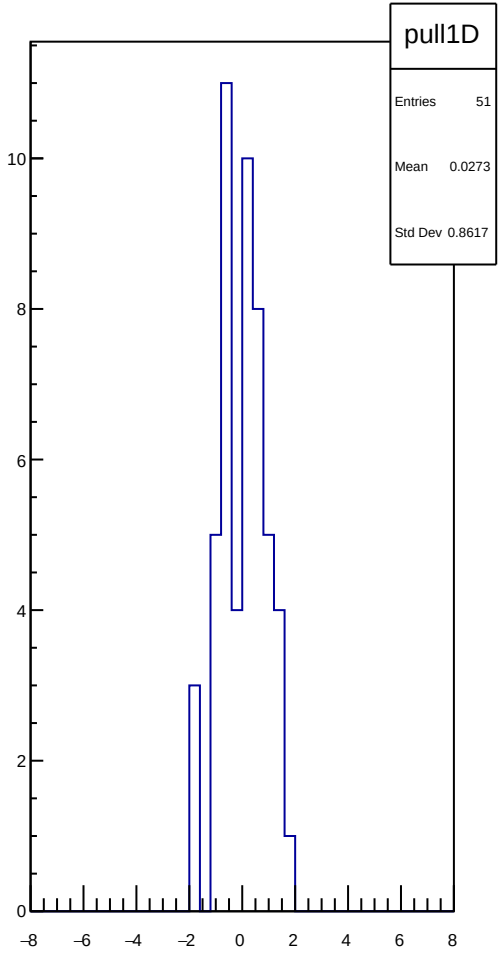

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 31.92 / 50
p0 147.6 ± 1.347
pull
Entries 51
Mean 36.33
Std Dev 19.35

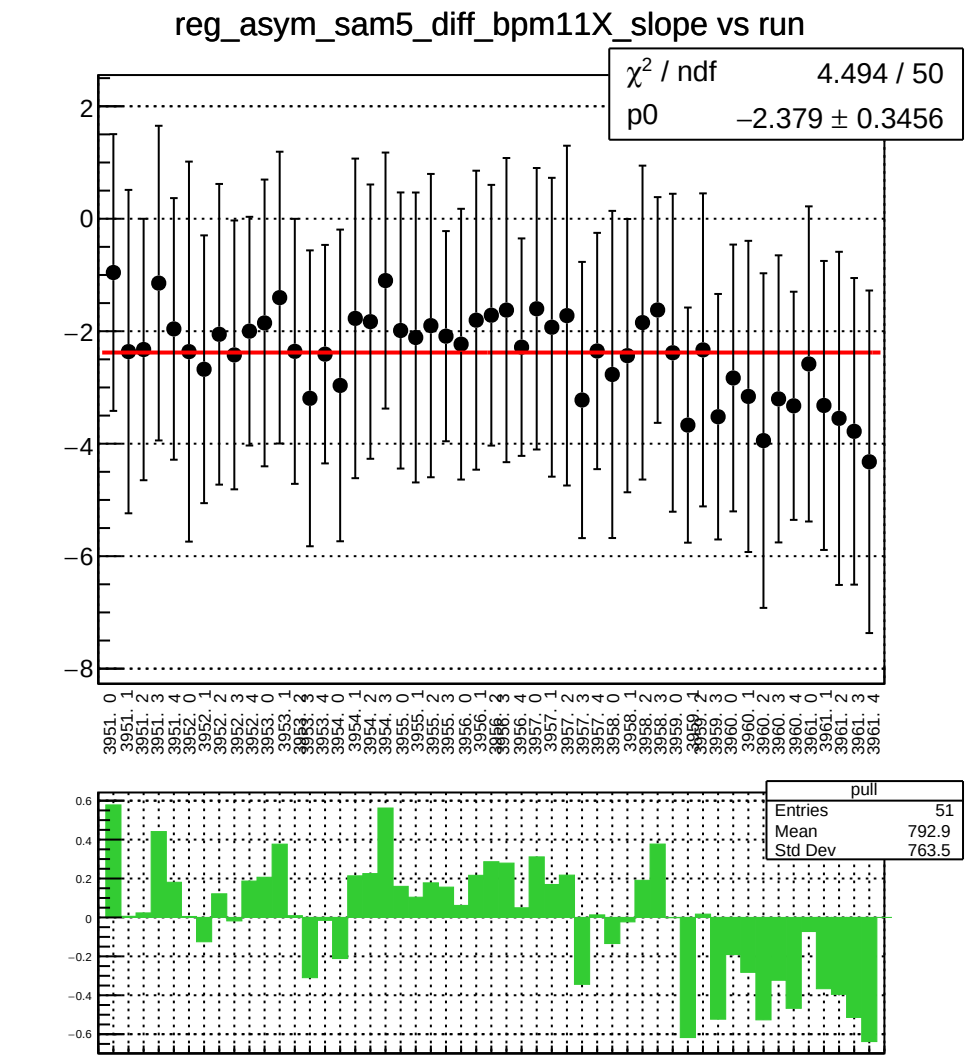

pull1D
Entries 51
Mean −0.01972
Std Dev 0.7908

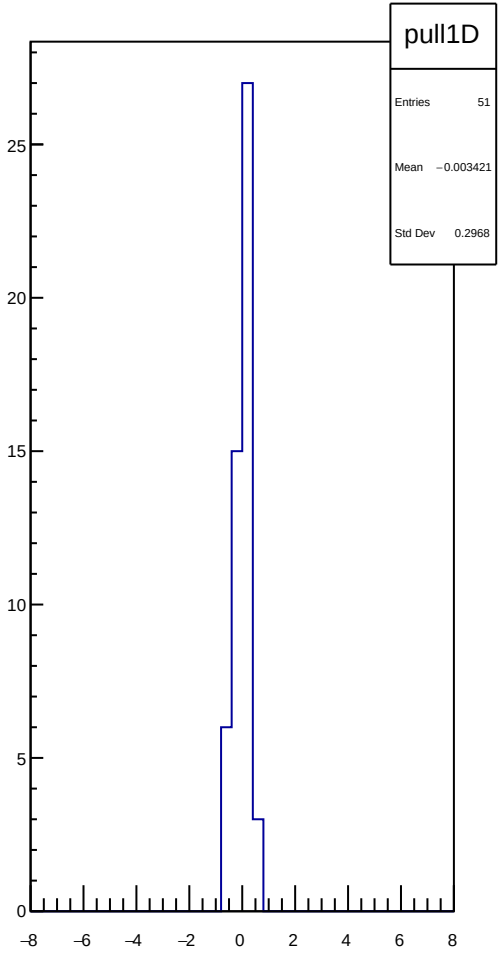

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 136.3 / 50
p0 −10.81 ± 0.3363
pull
Entries 51
Mean 50.15
Std Dev 66

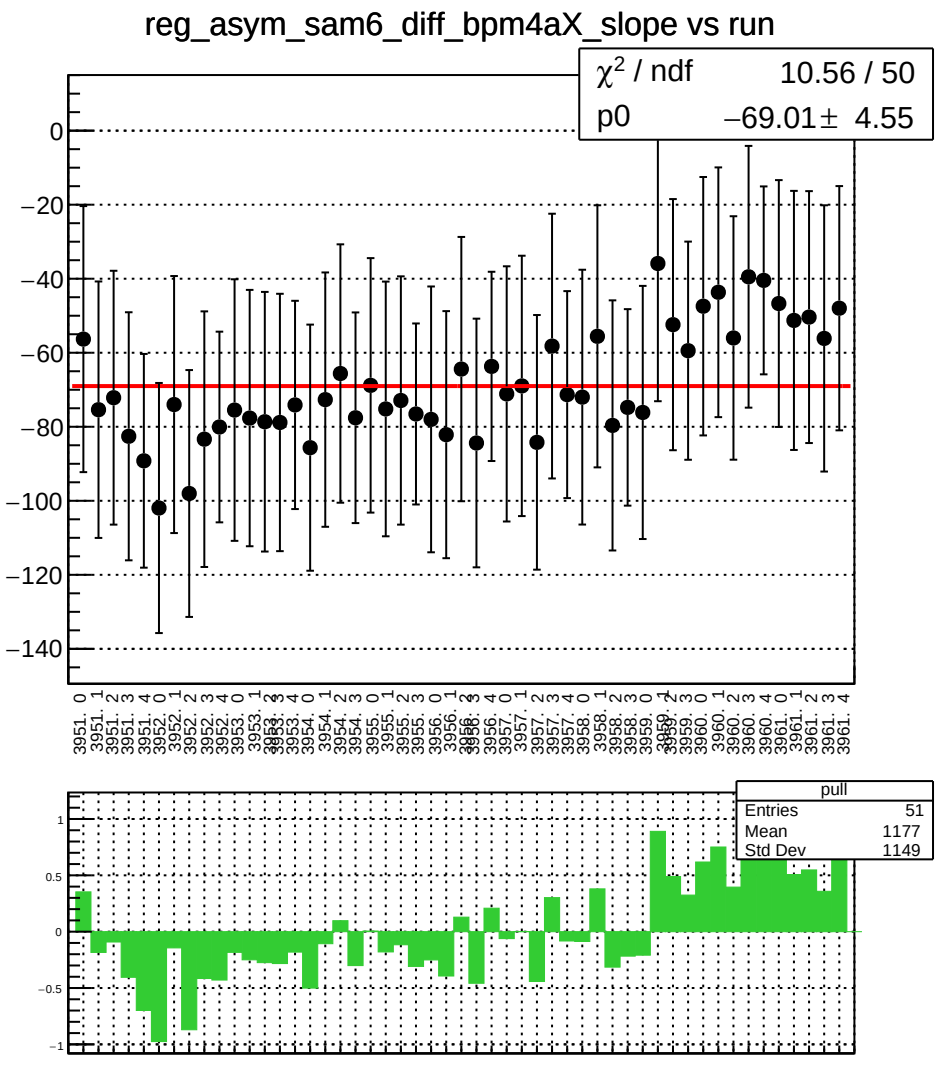

pull1D
Entries 51
Mean 0.05274
Std Dev 1.634

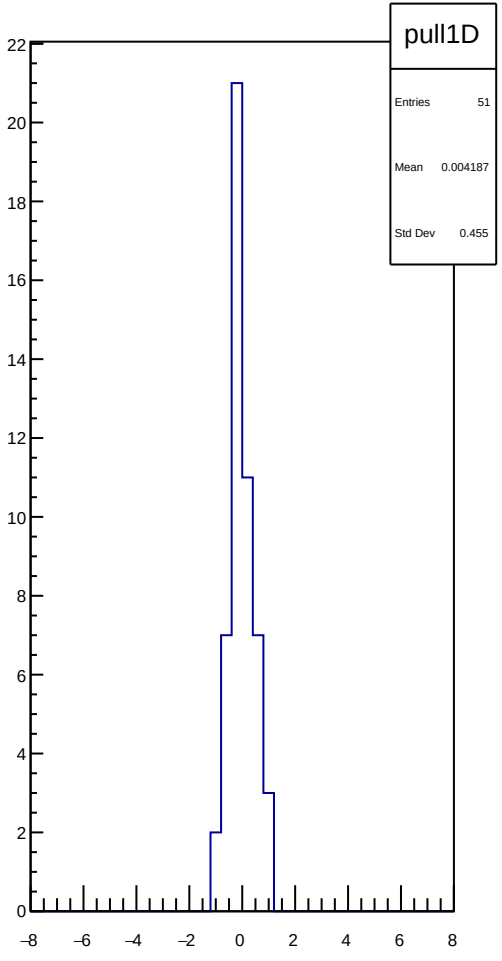

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 37.91 / 50
p0 34.16 ± 2.252
pull
Entries 51
Mean 12.24
Std Dev 12.54

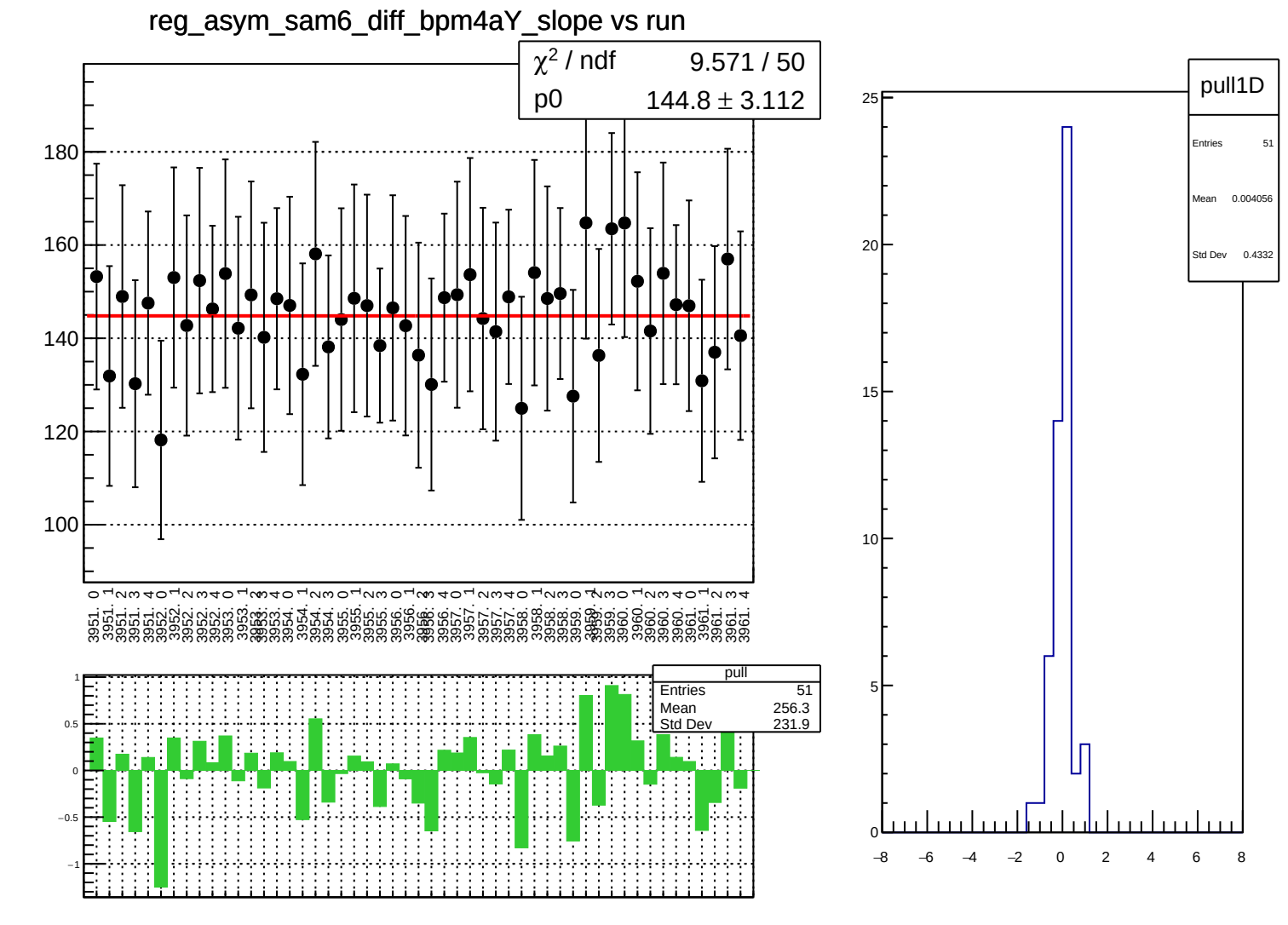

pull1D
Entries 51
Mean 0.0273
Std Dev 0.8617

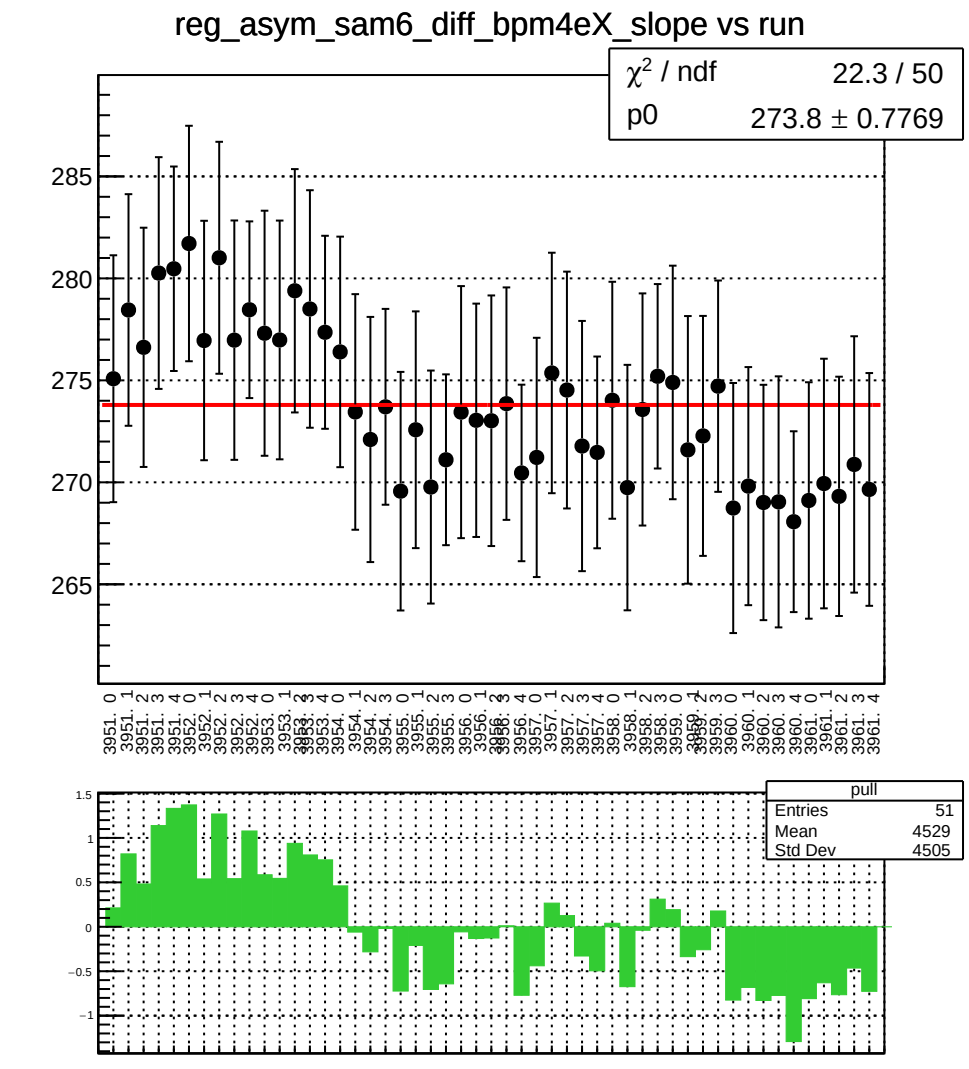

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 4.494 / 50
p0 −2.379 ± 0.3456
pull
Entries 51
Mean 792.9
Std Dev 763.5

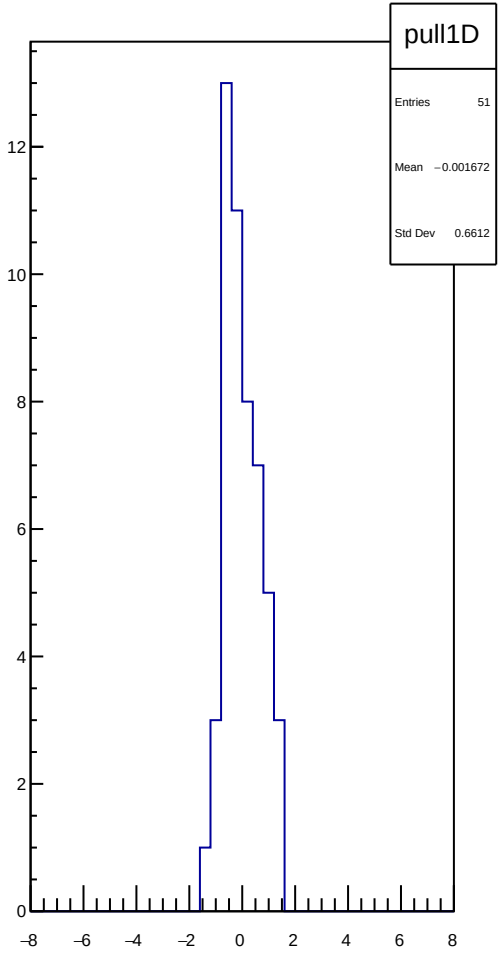

pull1D
Entries 51
Mean −0.003421
Std Dev 0.2968

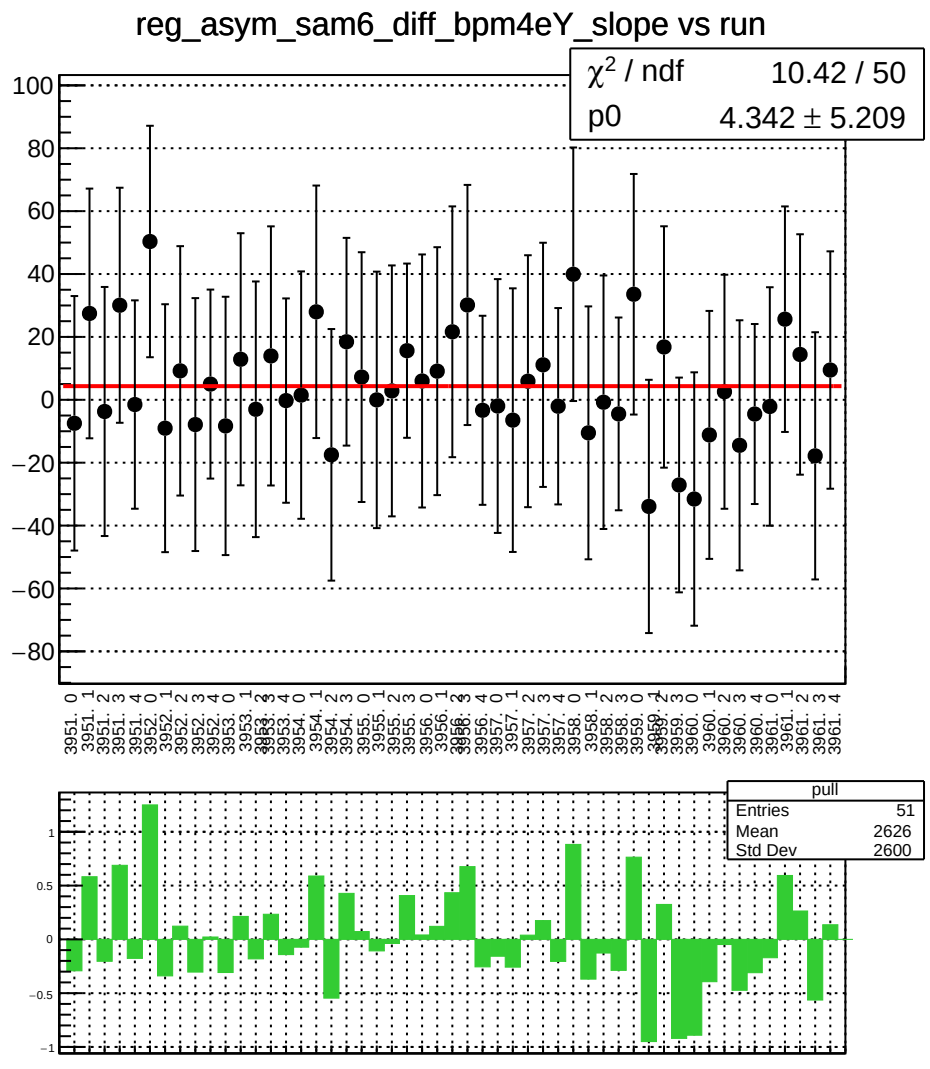

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 10.56 / 50
p0 −69.01± 4.55
pull
Entries 51
Mean 1177
Std Dev 1149

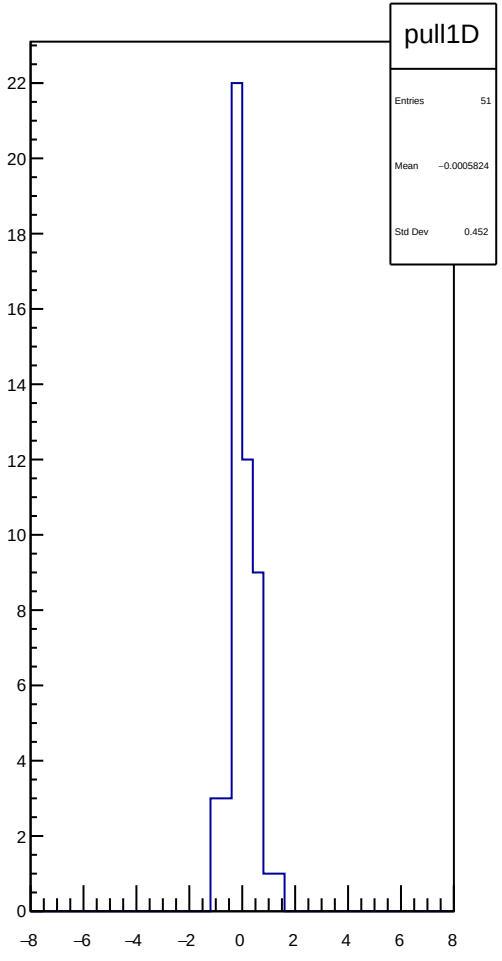

pull1D
Entries 51
Mean 0.004187
Std Dev 0.455

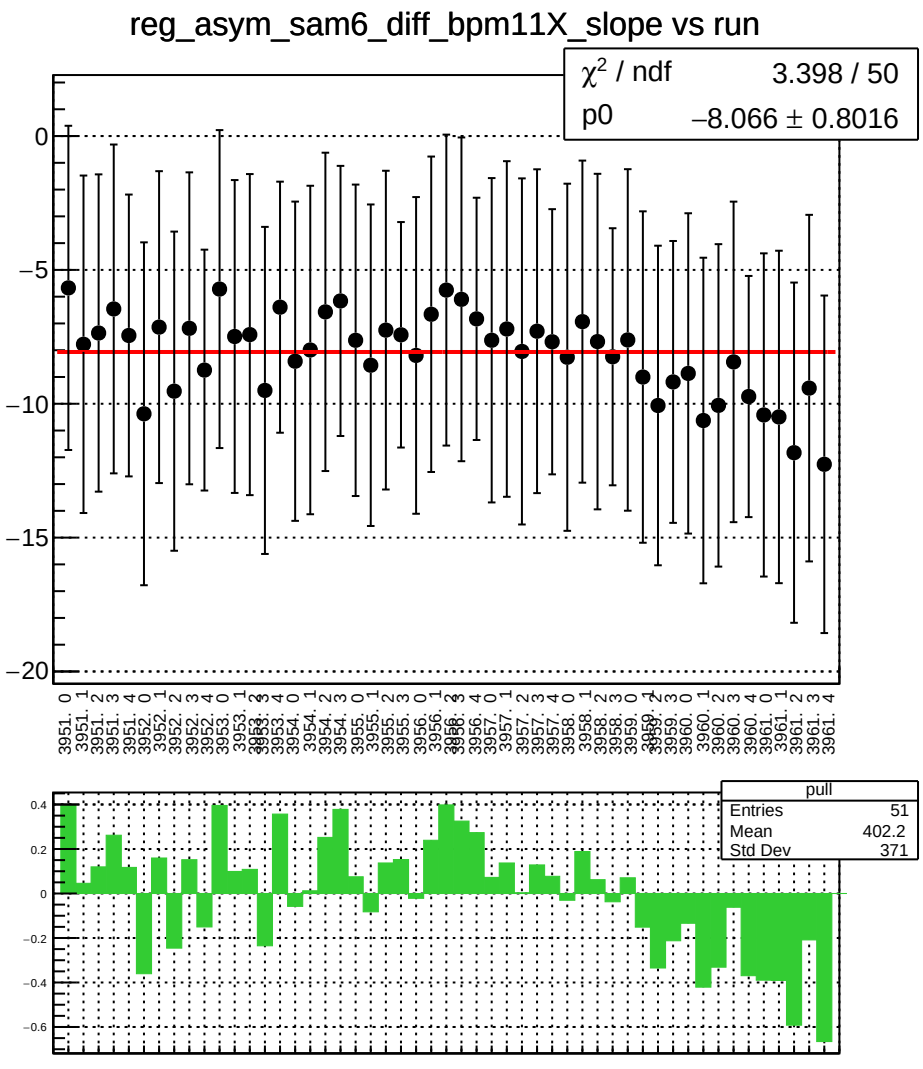

reg_asym_sam6_diff_bpm4aY_slope vs run
χ^2 / ndf 9.571 / 50
p0 144.8 ± 3.112
pull
Entries 51
Mean 256.3
Std Dev 231.9
pull1D
Entries 51
Mean 0.004056
Std Dev 0.4332

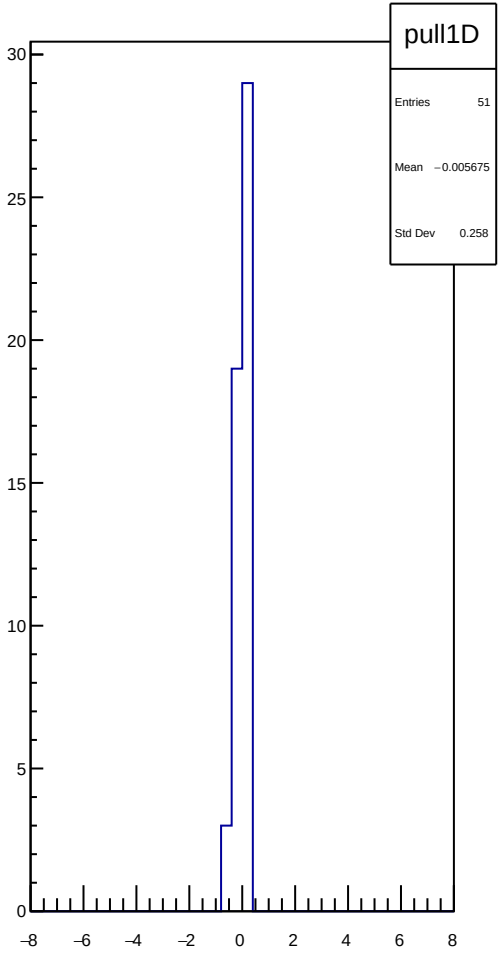

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 22.3 / 50
p0 273.8 ± 0.7769
285
280
275
270
265
pull
Entries 51
Mean 4529
Std Dev 4505
1.5
1
0.5
0
−0.5
−1

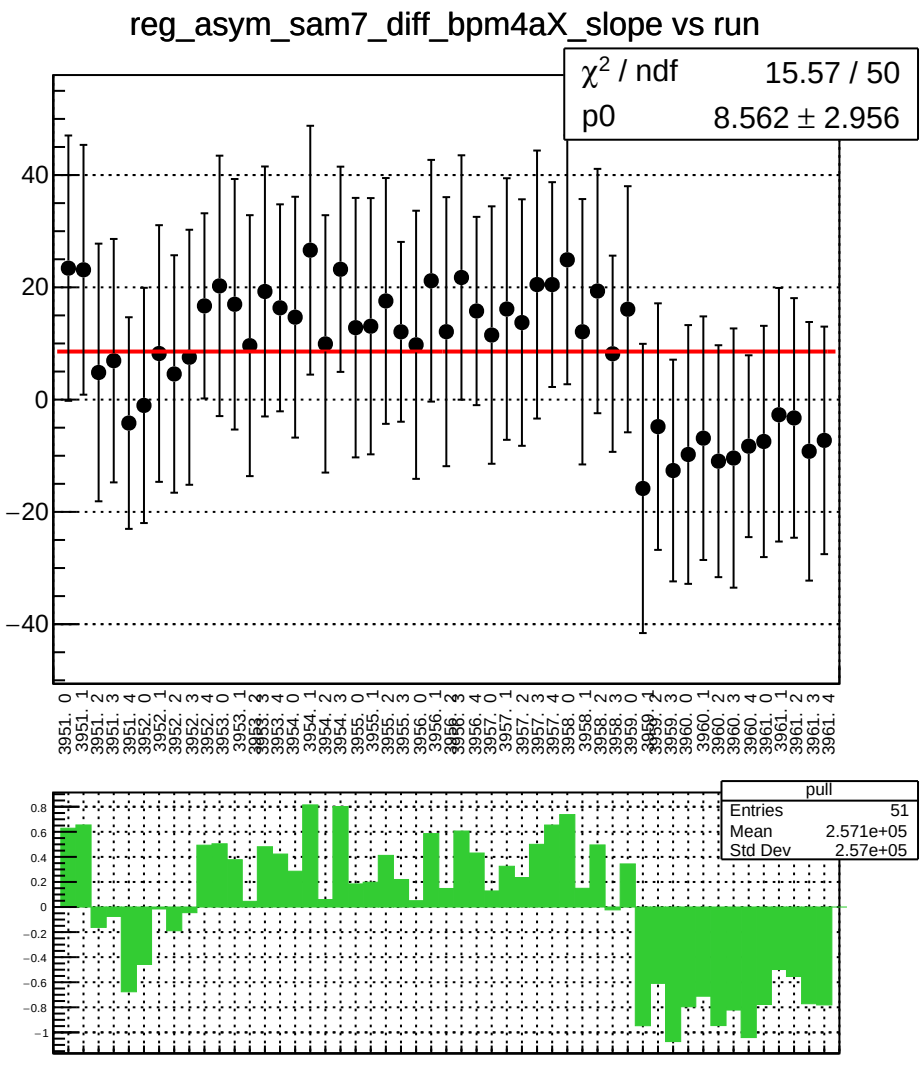

pull1D
Entries 51
Mean −0.001672
Std Dev 0.6612
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

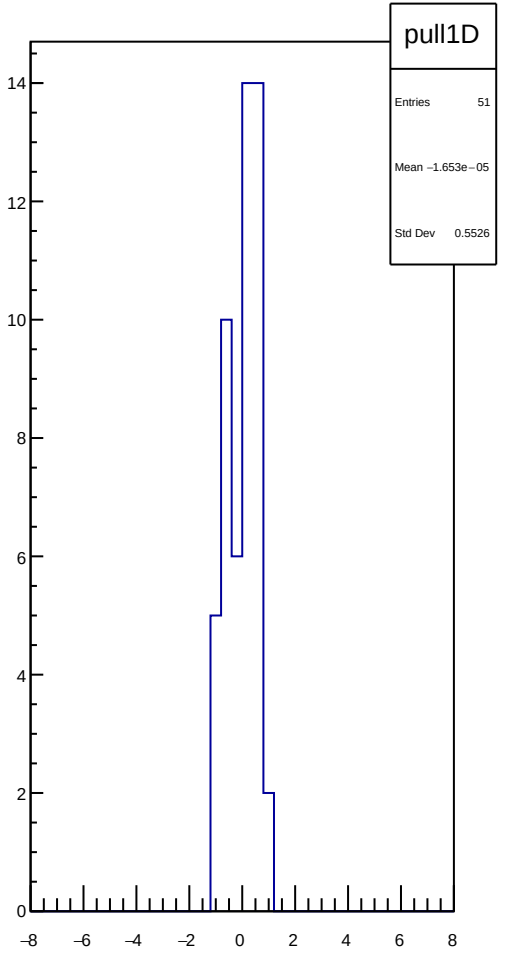

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 10.42 / 50
p0 4.342 ± 5.209
pull
Entries 51
Mean 2626
Std Dev 2600

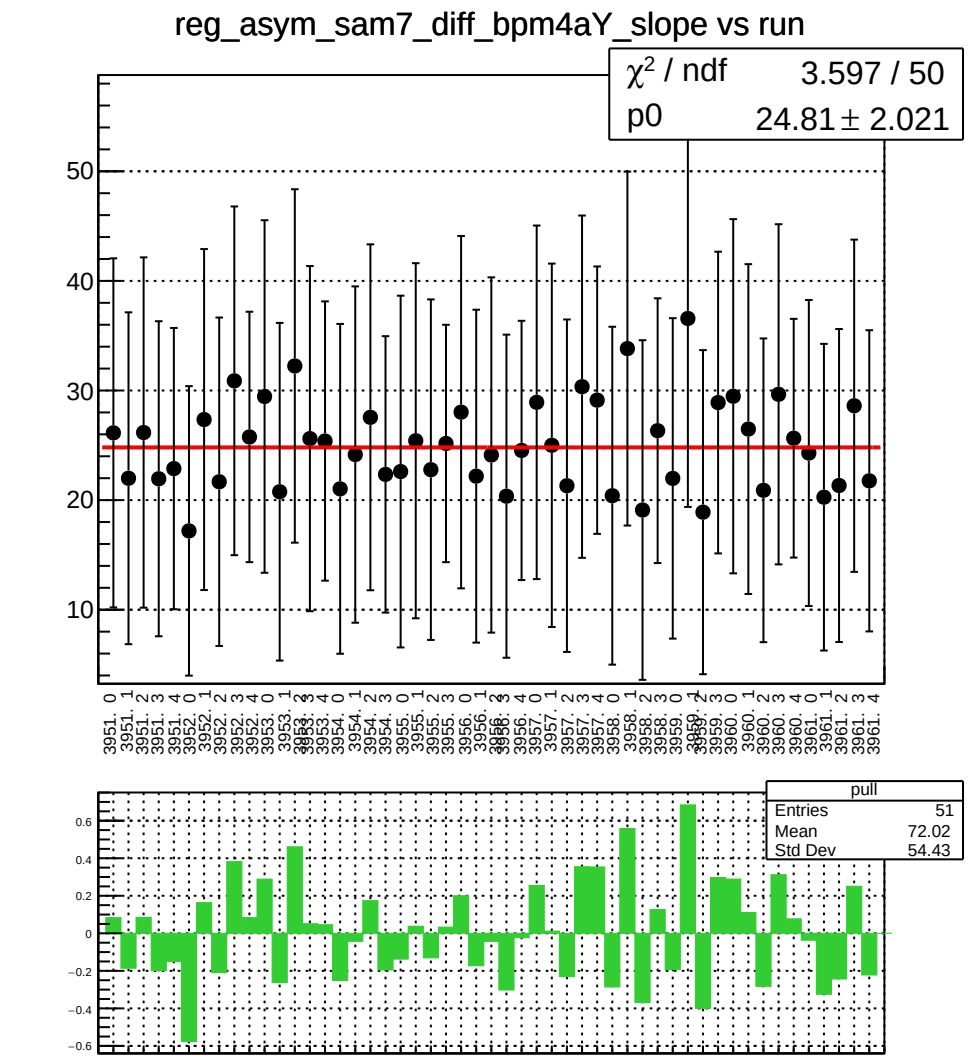

pull1D
Entries 51
Mean −0.0005824
Std Dev 0.452

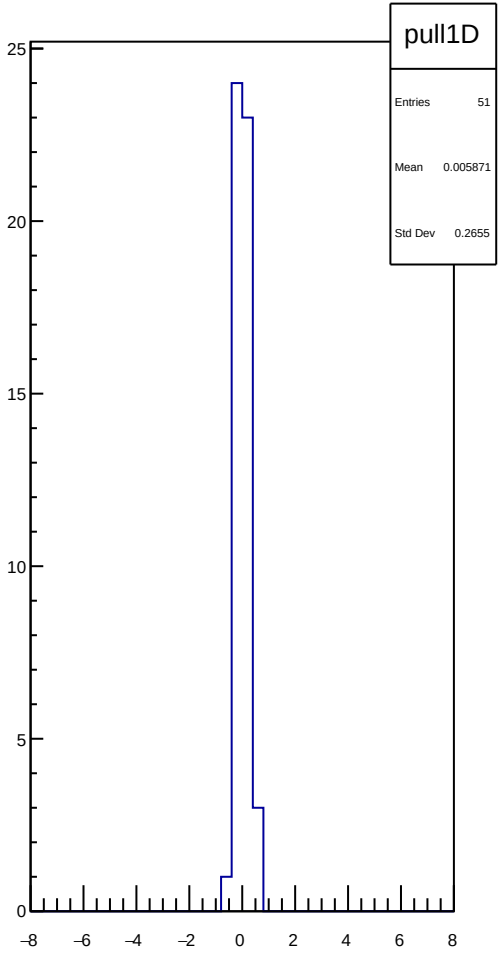

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 3.398 / 50
p0 −8.066 ± 0.8016
pull
Entries 51
Mean 402.2
Std Dev 371

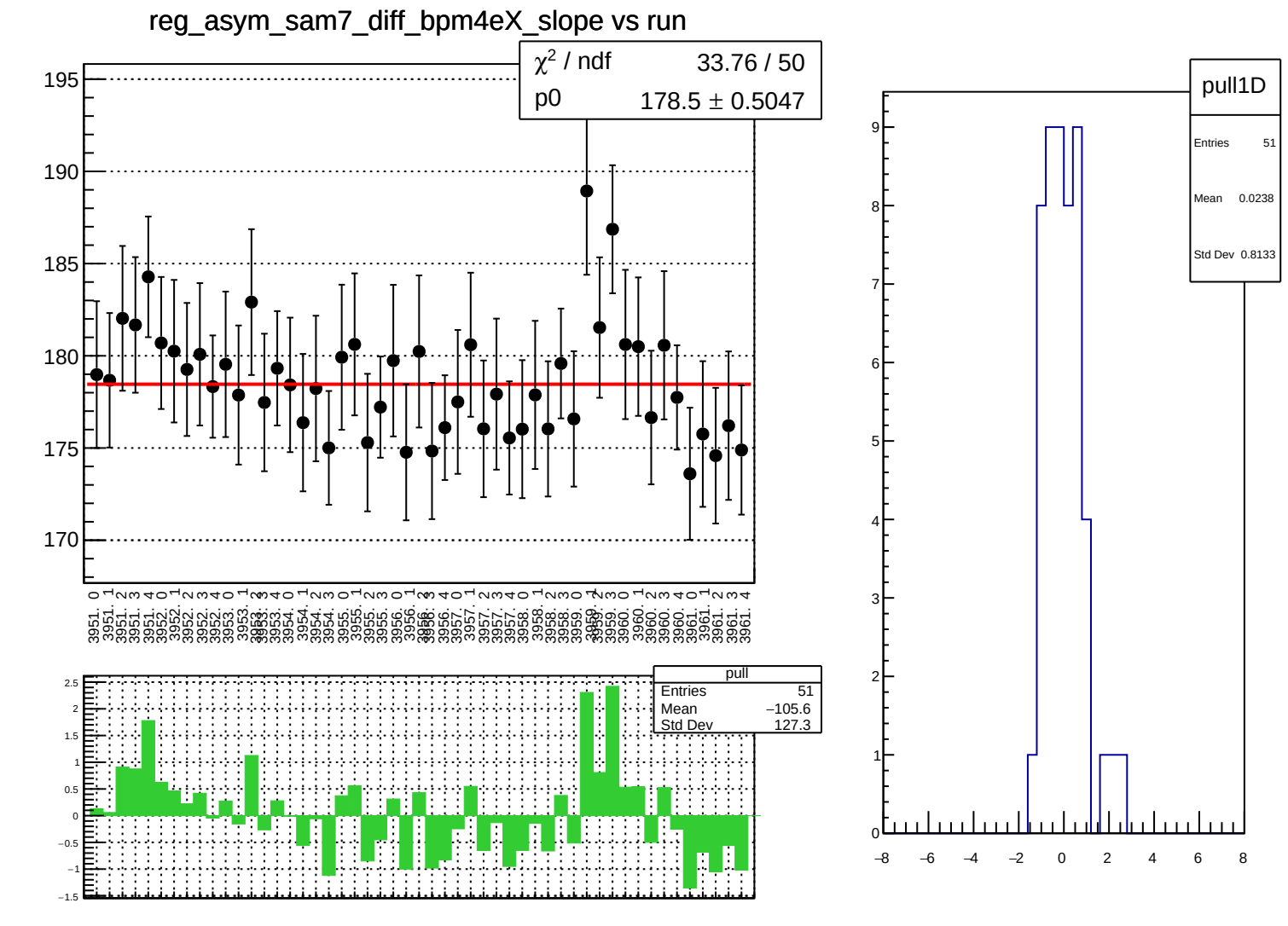

pull1D
Entries 51
Mean −0.005675
Std Dev 0.258

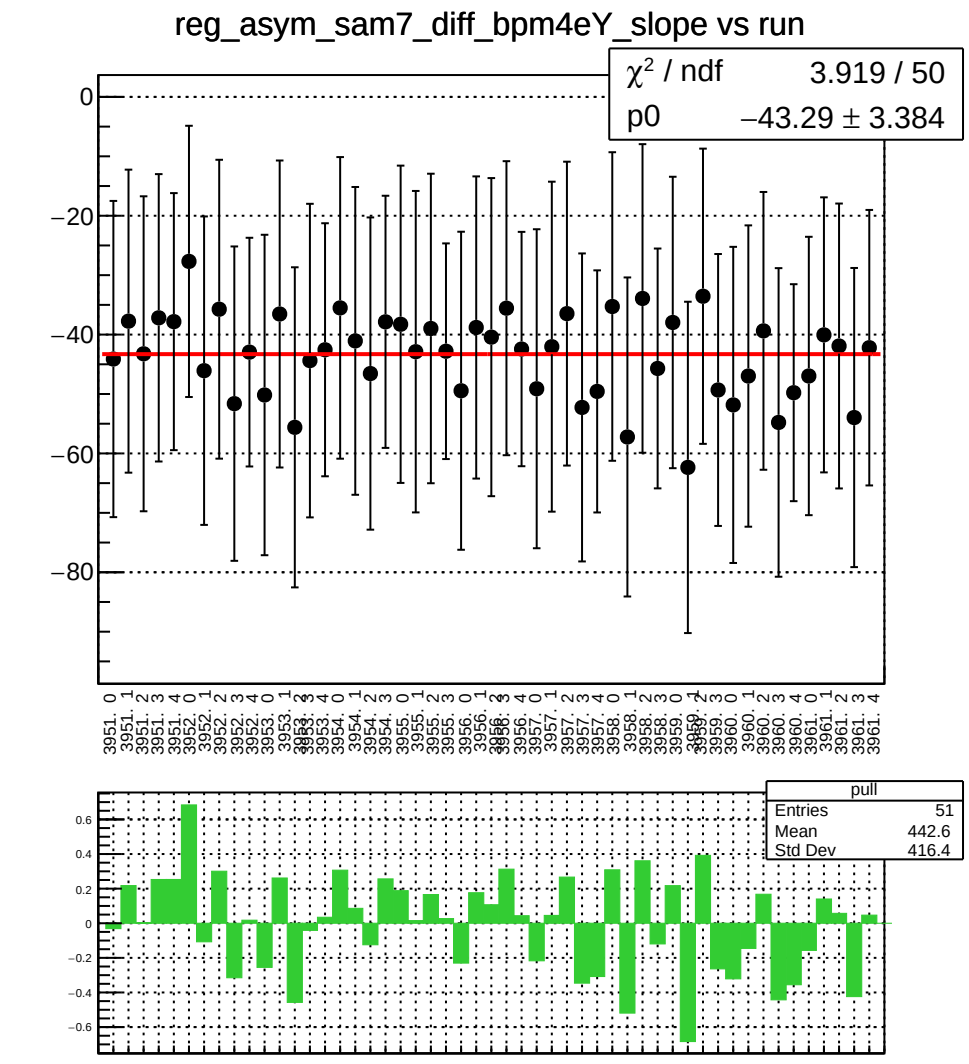

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 15.57 / 50
p0 8.562 ± 2.956
pull
Entries 51
Mean 2.571e+05
Std Dev 2.57e+05

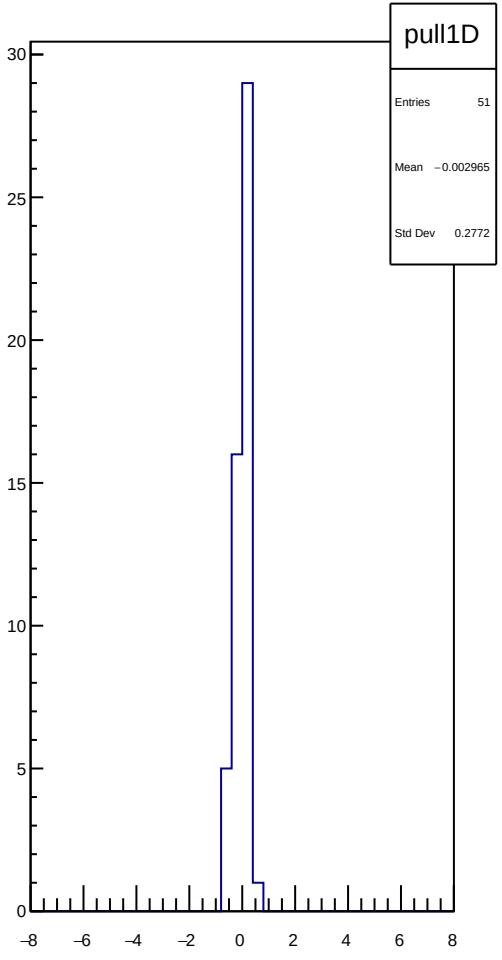

pull1D
Entries 51
Mean −1.653e−05
Std Dev 0.5526

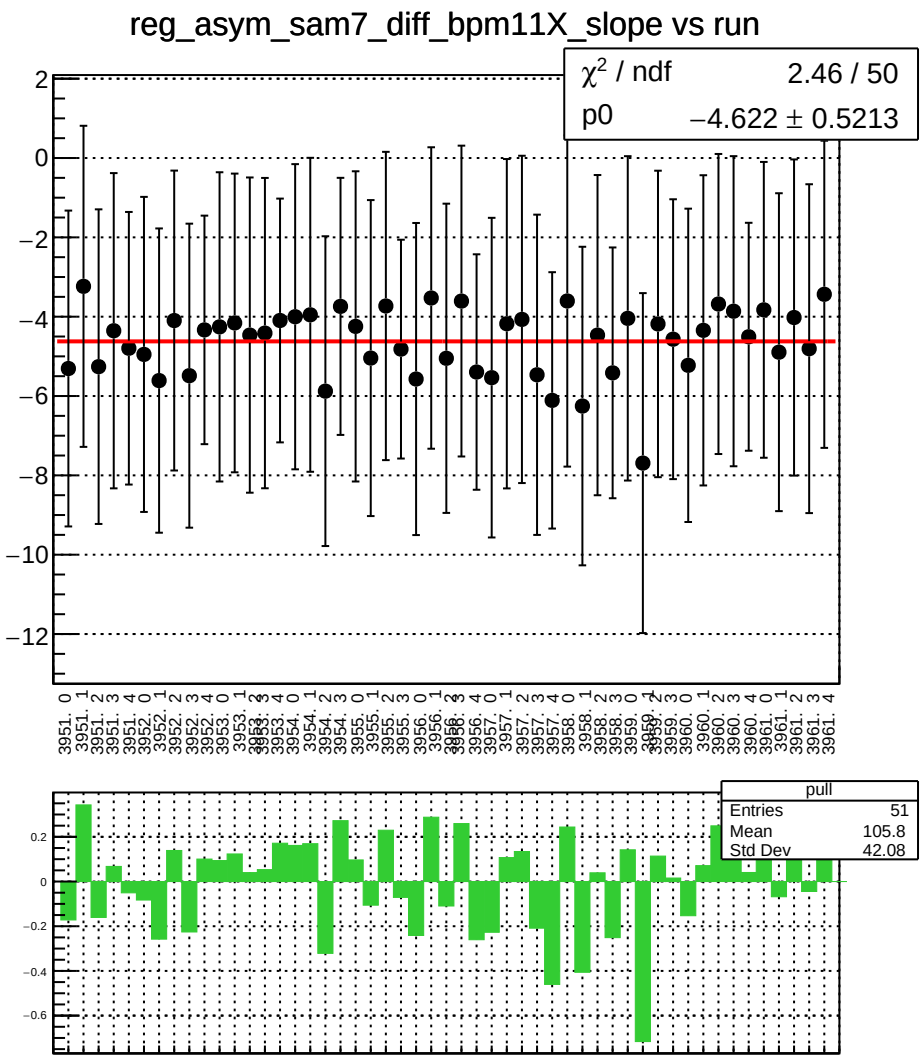

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 3.597 / 50
p0 24.81 ± 2.021
pull
Entries 51
Mean 72.02
Std Dev 54.43

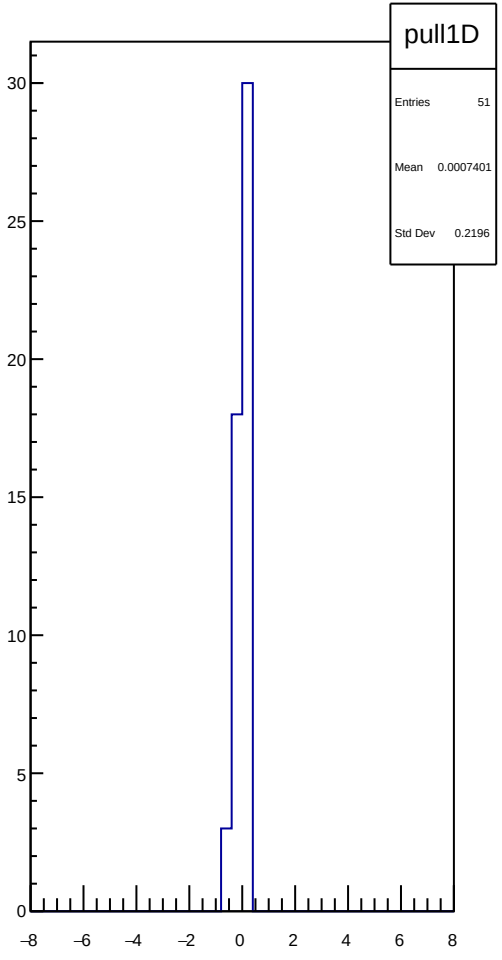

pull1D
Entries 51
Mean 0.005871
Std Dev 0.2655

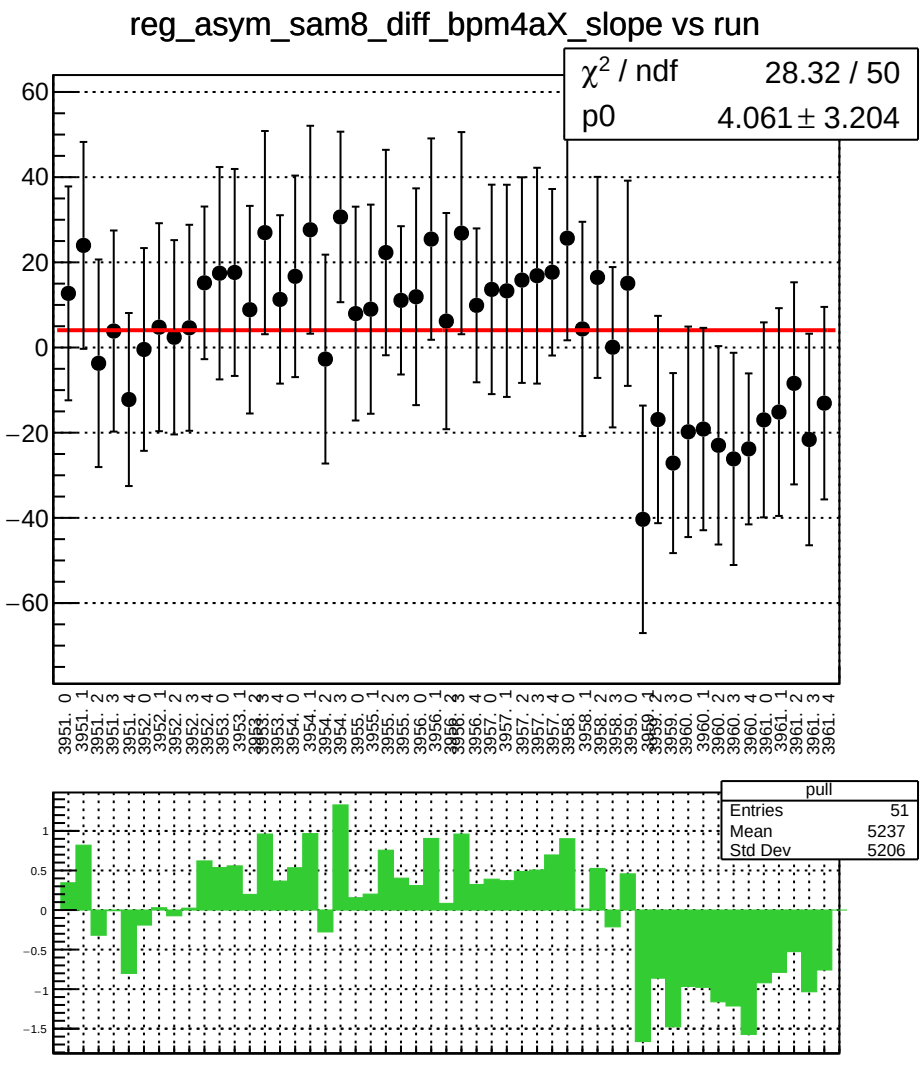

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 33.76 / 50
p0 178.5 ± 0.5047
pull
Entries 51
Mean −105.6
Std Dev 127.3
pull1D
Entries 51
Mean 0.0238
Std Dev 0.8133

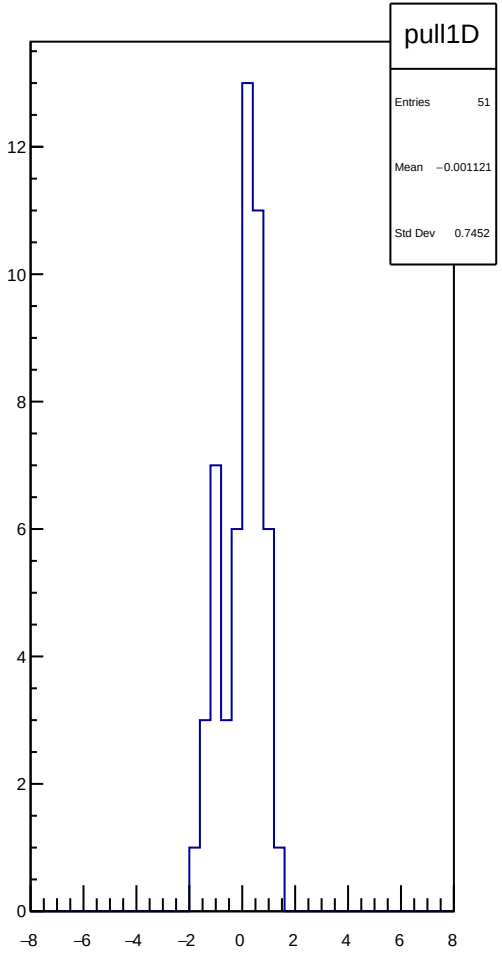

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 3.919 / 50
p0 −43.29 ± 3.384
pull
Entries 51
Mean 442.6
Std Dev 416.4

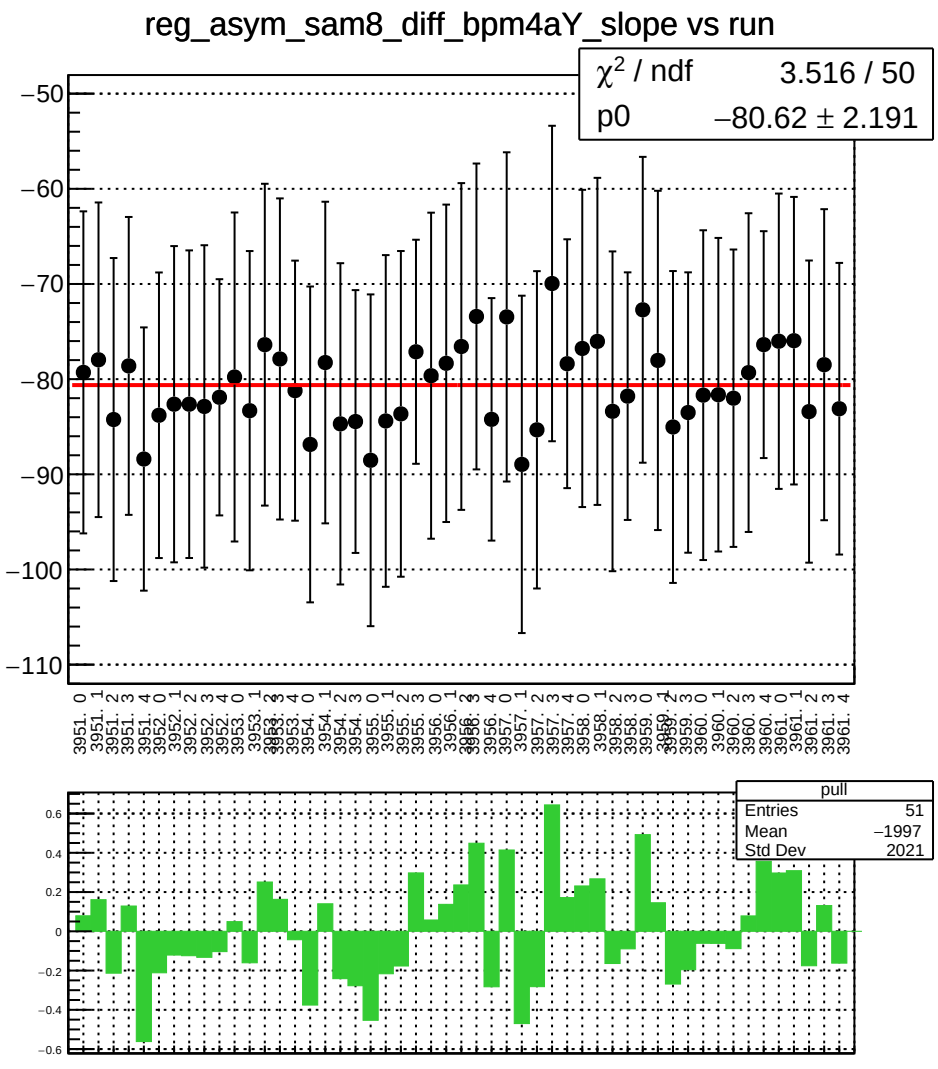

pull1D
Entries 51
Mean −0.002965
Std Dev 0.2772

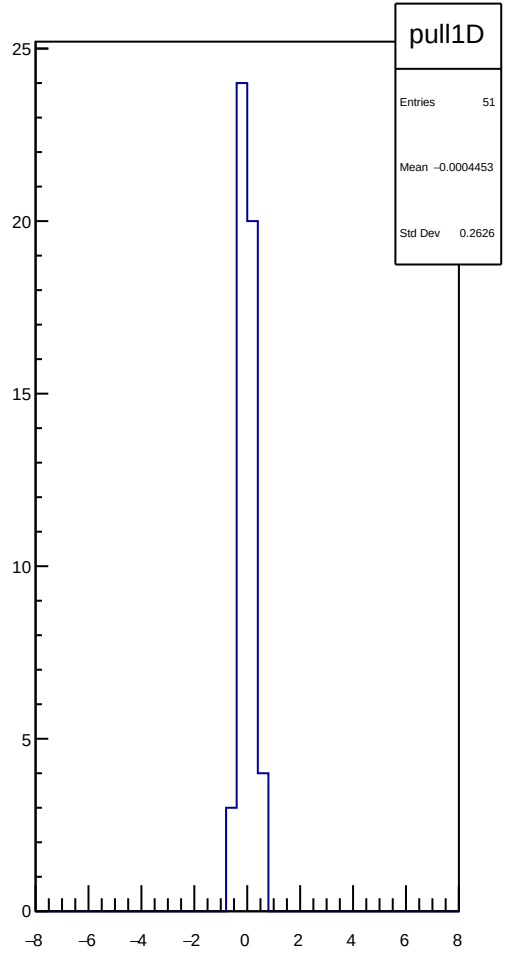

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 2.46 / 50
p0 −4.622 ± 0.5213
pull
Entries 51
Mean 105.8
Std Dev 42.08

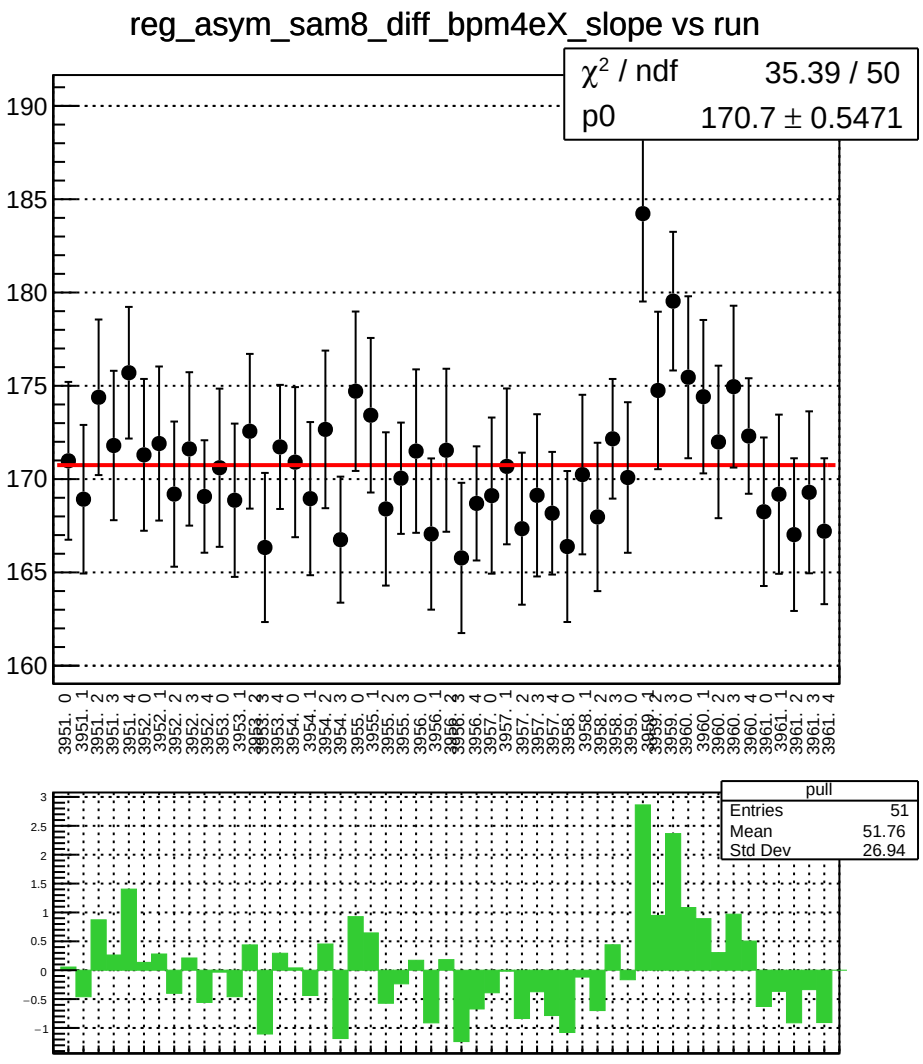

pull1D
Entries 51
Mean 0.0007401
Std Dev 0.2196

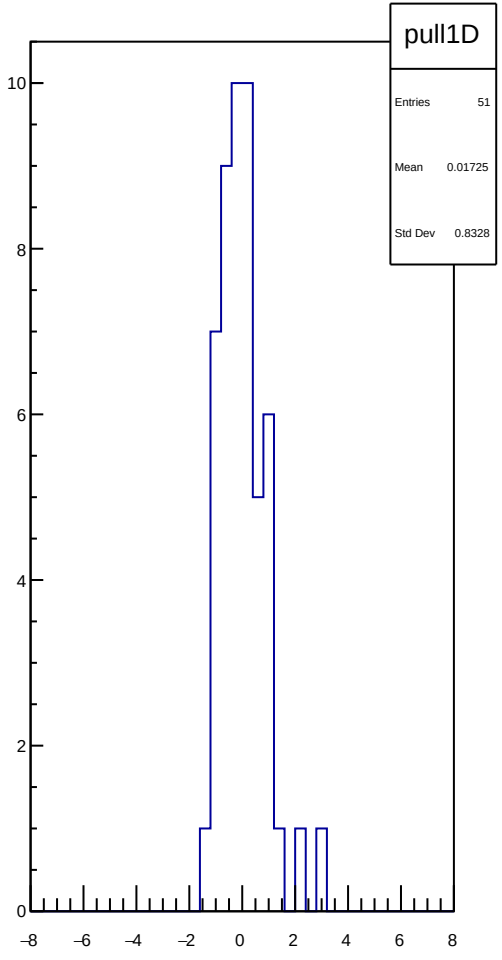

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 28.32 / 50
p0 4.061 ± 3.204
pull
Entries 51
Mean 5237
Std Dev 5206

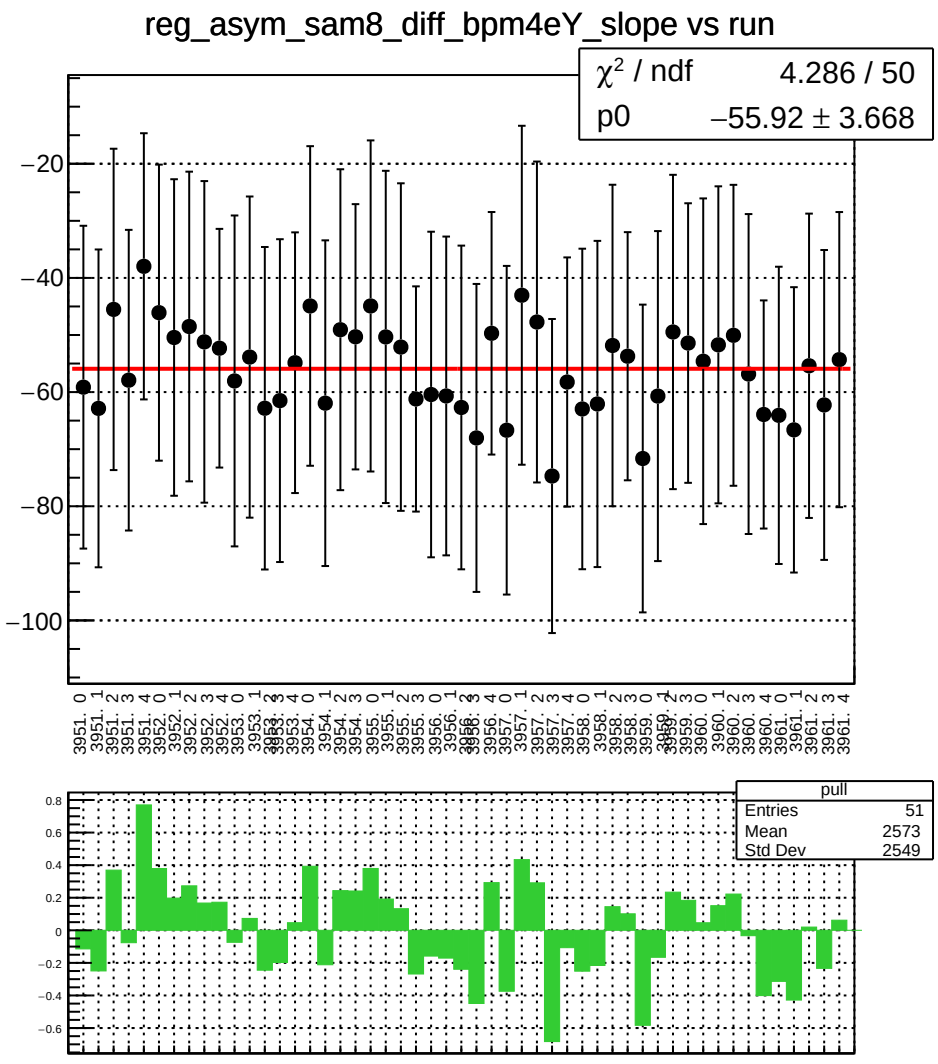

pull1D
Entries 51
Mean −0.001121
Std Dev 0.7452

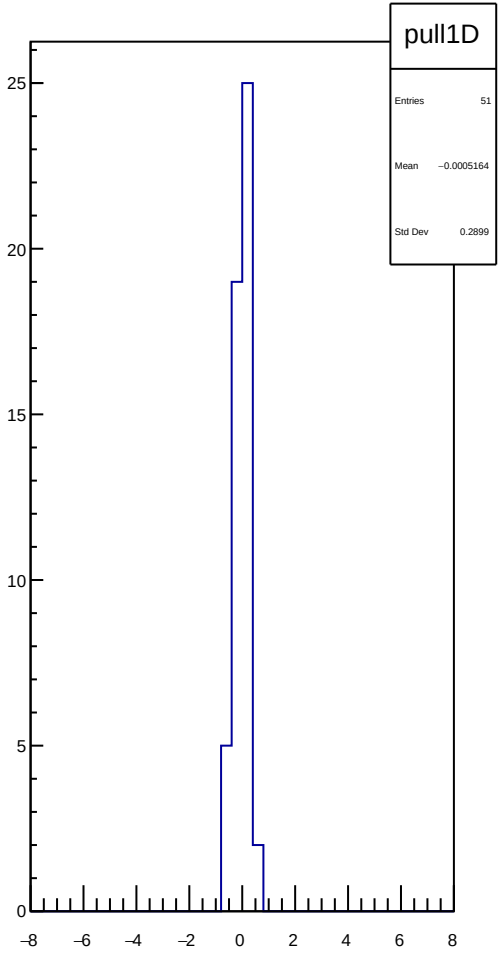

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 3.516 / 50
p0 −80.62 ± 2.191
pull
Entries 51
Mean −1997
Std Dev 2021

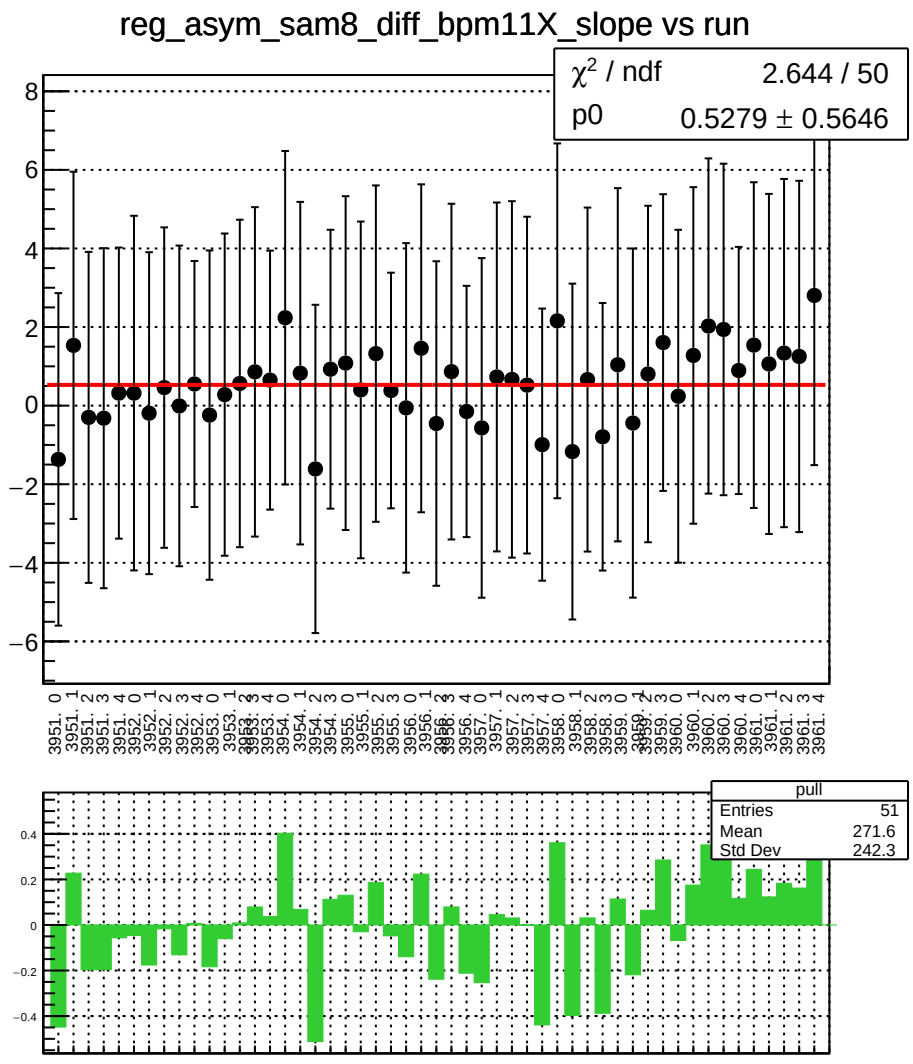

pull1D
Entries 51
Mean −0.0004453
Std Dev 0.2626

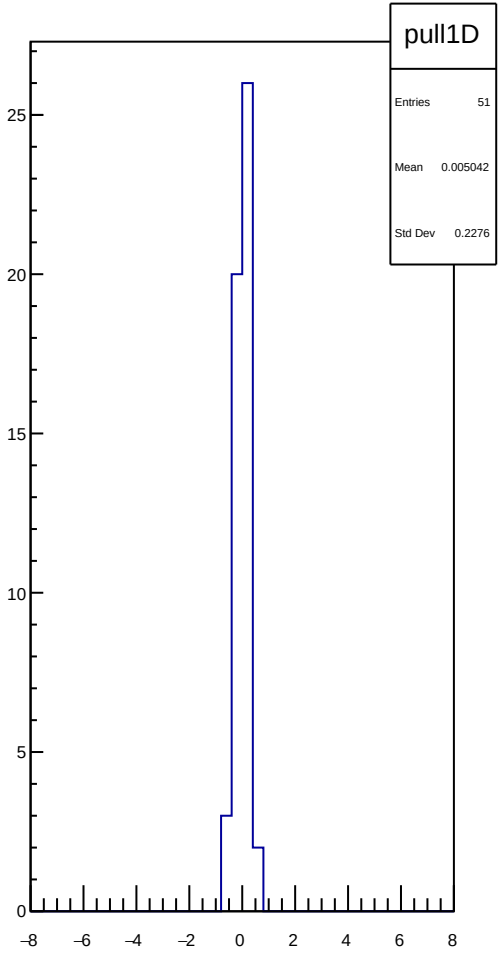

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 35.39 / 50
p0 170.7 ± 0.5471
pull
Entries 51
Mean 51.76
Std Dev 26.94

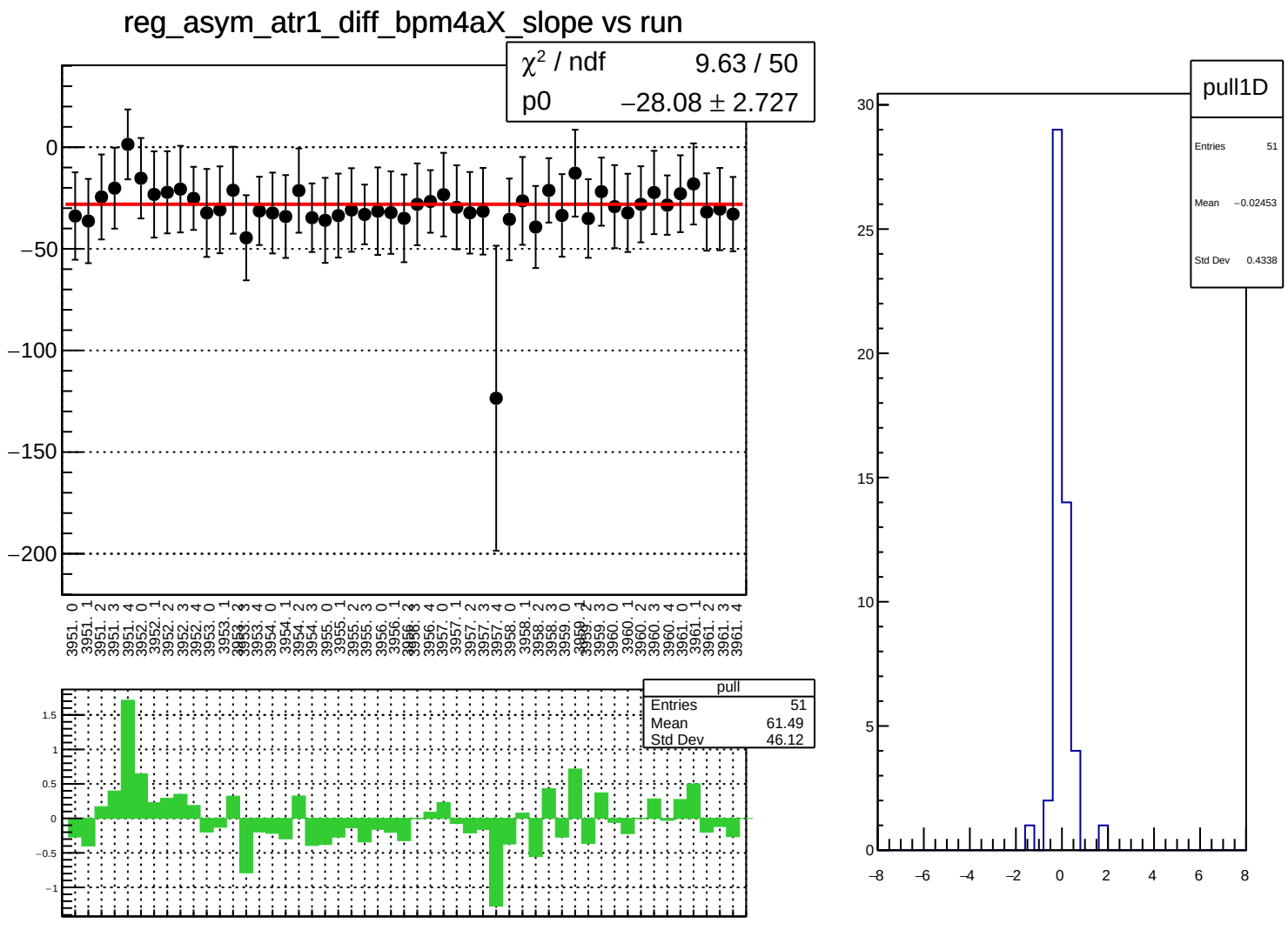

pull1D
Entries 51
Mean 0.01725
Std Dev 0.8328

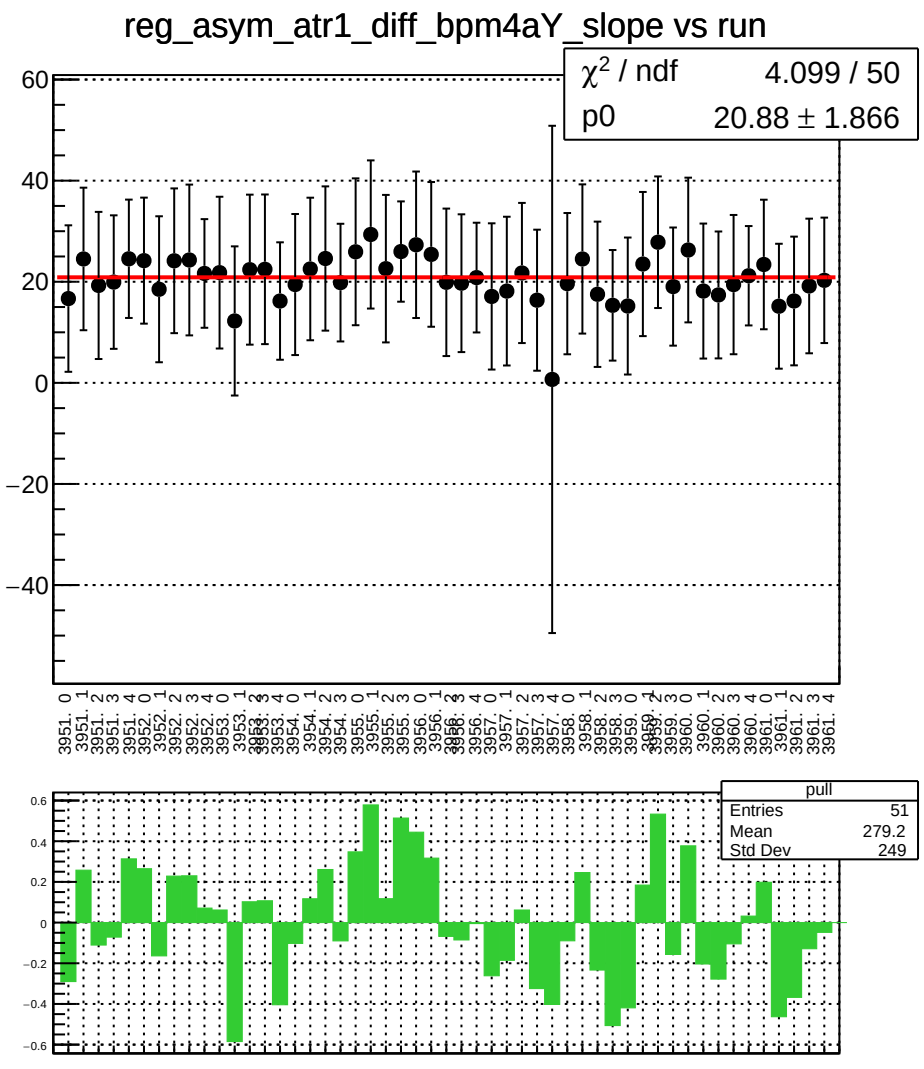

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 4.286 / 50
p0 −55.92 ± 3.668
pull
Entries 51
Mean 2573
Std Dev 2549

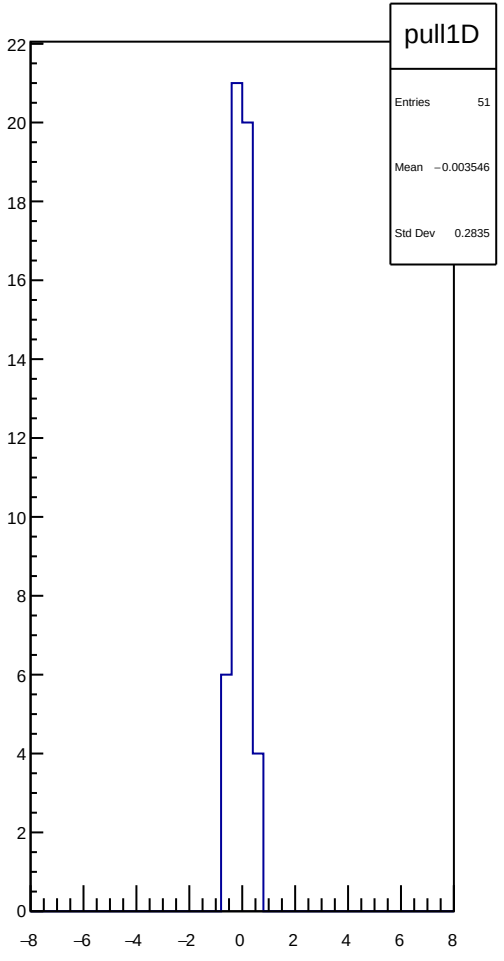

pull1D
Entries 51
Mean −0.0005164
Std Dev 0.2899

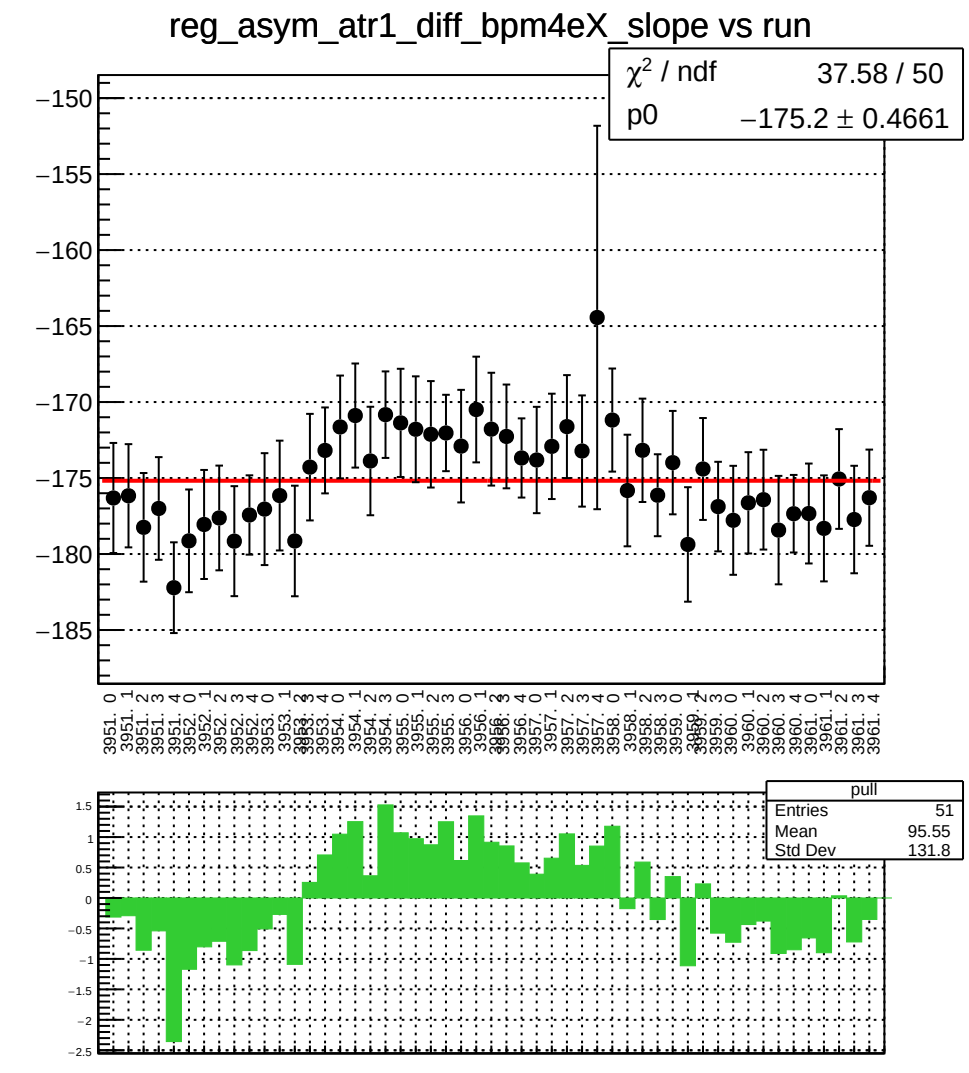

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 2.644 / 50
p0 0.5279 ± 0.5646
pull
Entries 51
Mean 271.6
Std Dev 242.3

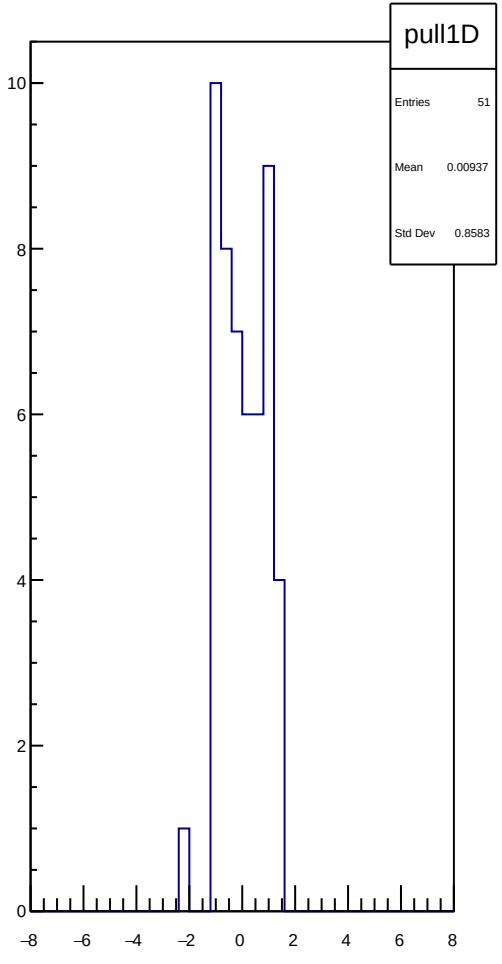

pull1D
Entries 51
Mean 0.005042
Std Dev 0.2276

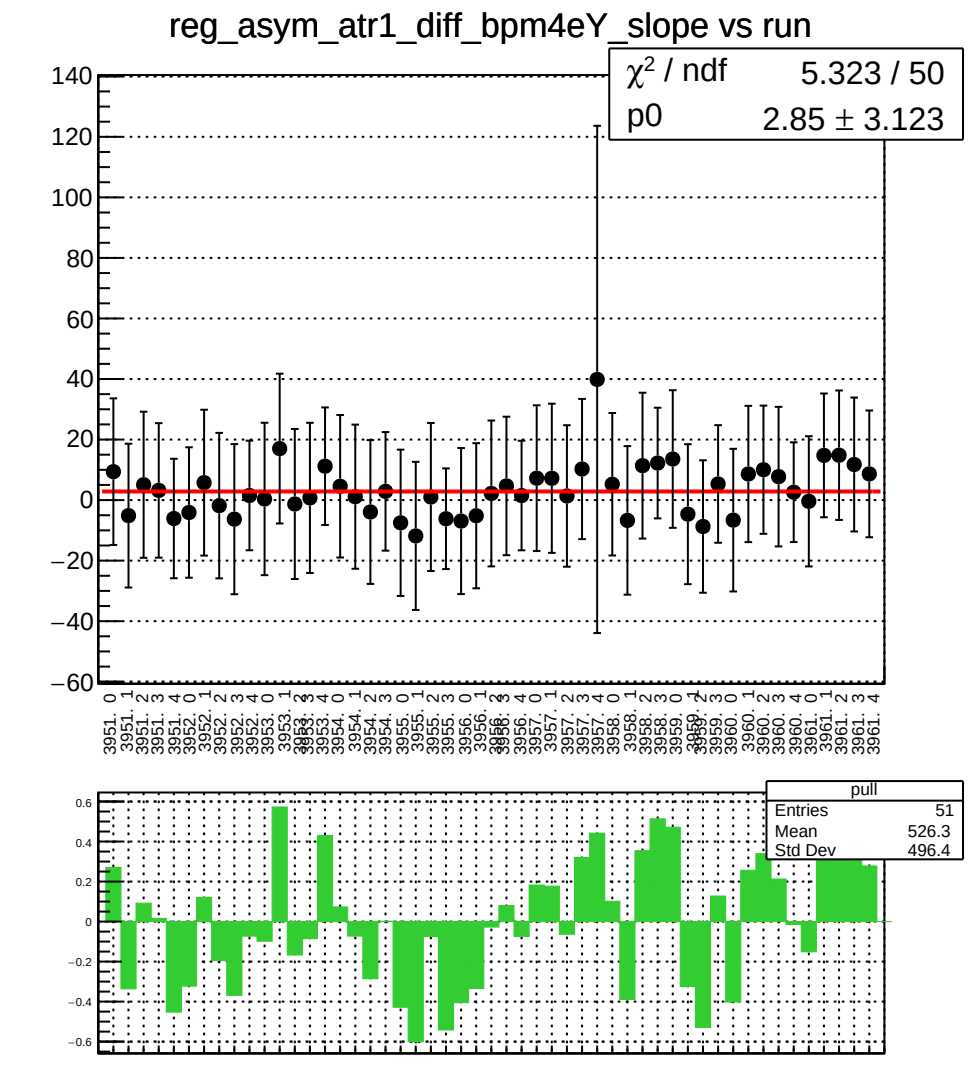

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 9.63 / 50
p0 −28.08 ± 2.727
pull
Entries 51
Mean 61.49
Std Dev 46.12
pull1D
Entries 51
Mean −0.02453
Std Dev 0.4338

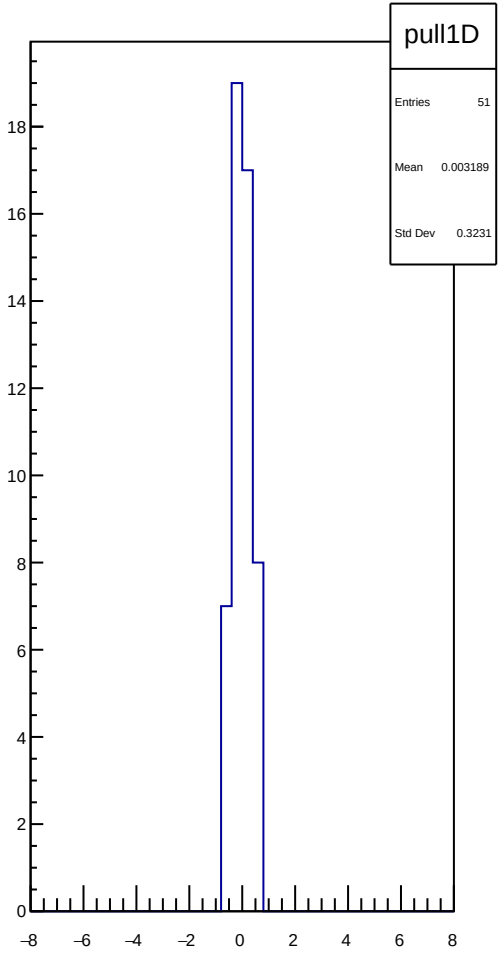

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 4.099 / 50
p0 20.88 ± 1.866
pull
Entries 51
Mean 279.2
Std Dev 249

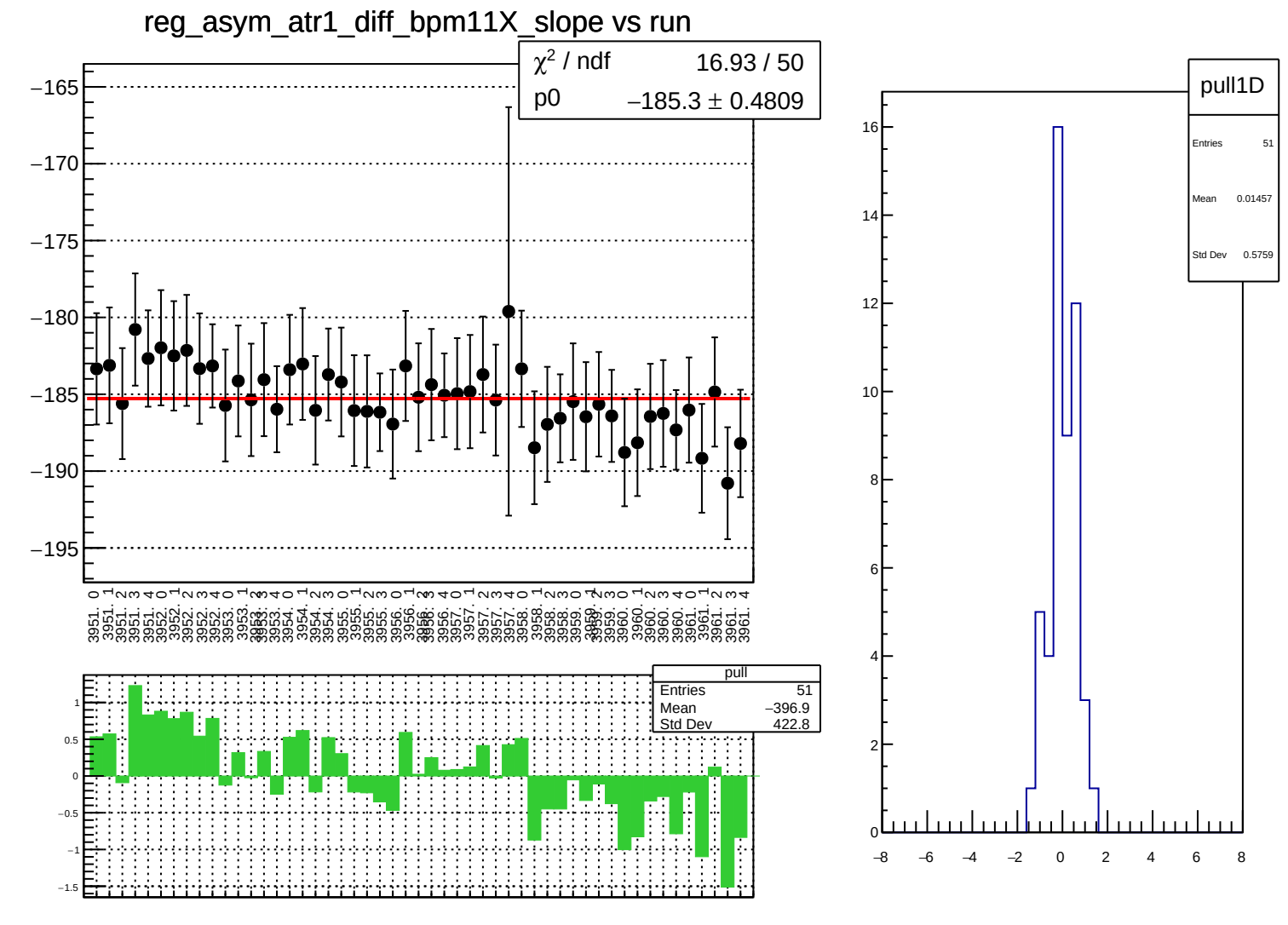

pull1D
Entries 51
Mean −0.003546
Std Dev 0.2835

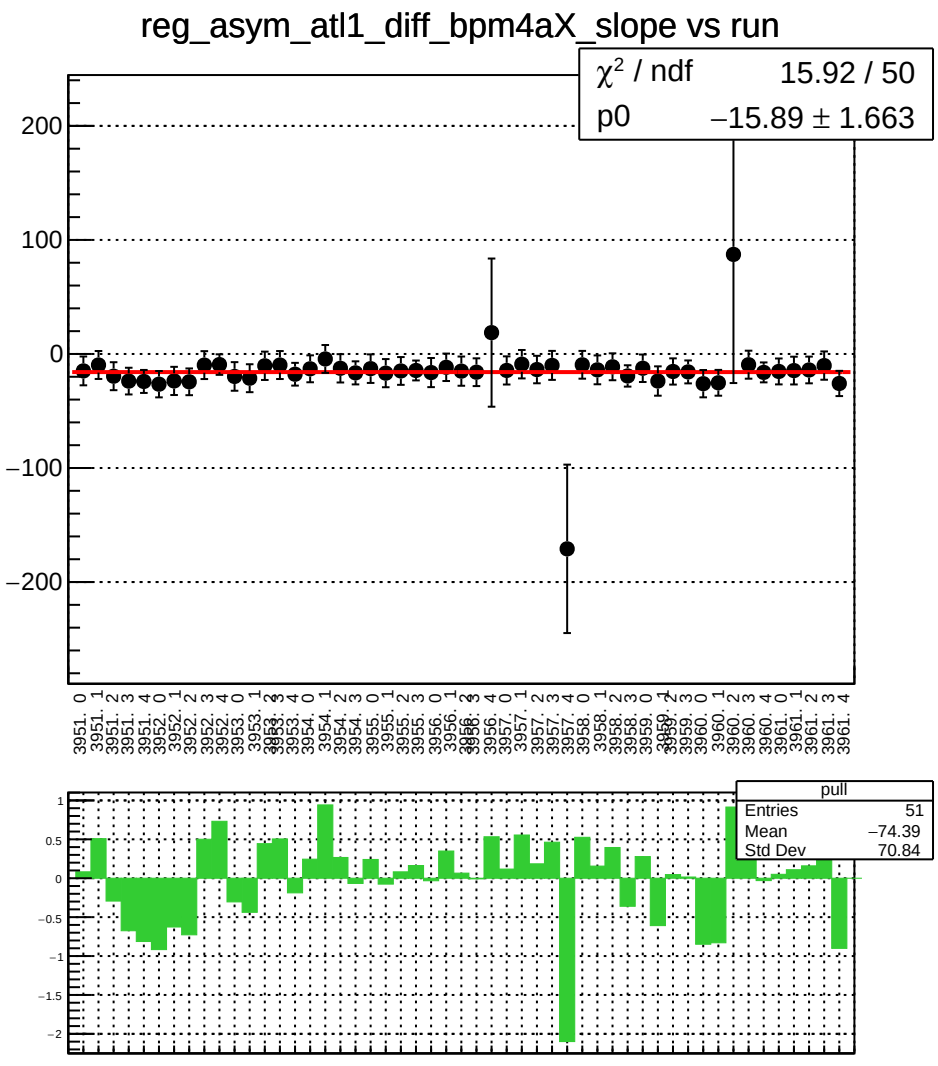

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 37.58 / 50
p0 −175.2 ± 0.4661
pull
Entries 51
Mean 95.55
Std Dev 131.8

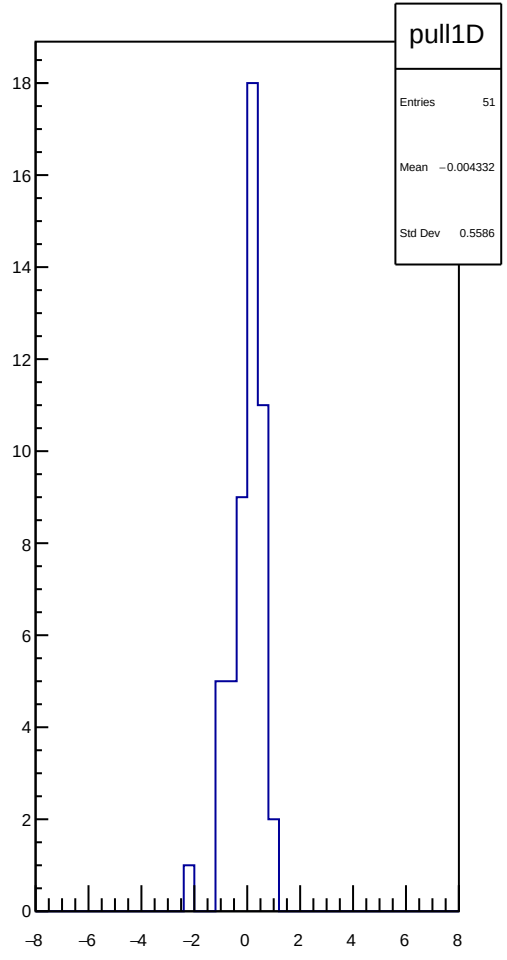

pull1D
Entries 51
Mean 0.00937
Std Dev 0.8583

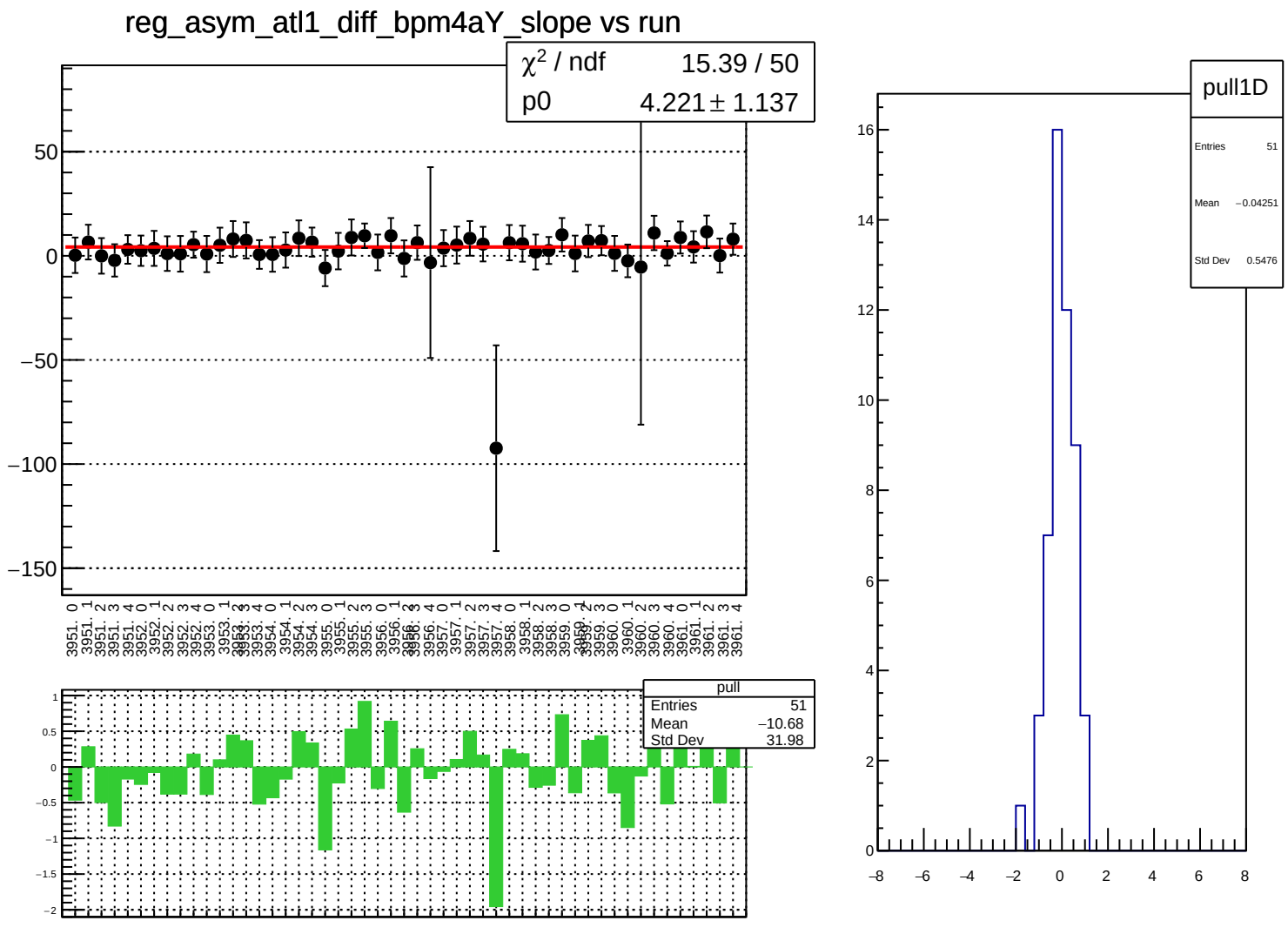

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 5.323 / 50
p0 2.85 ± 3.123
pull
Entries 51
Mean 526.3
Std Dev 496.4

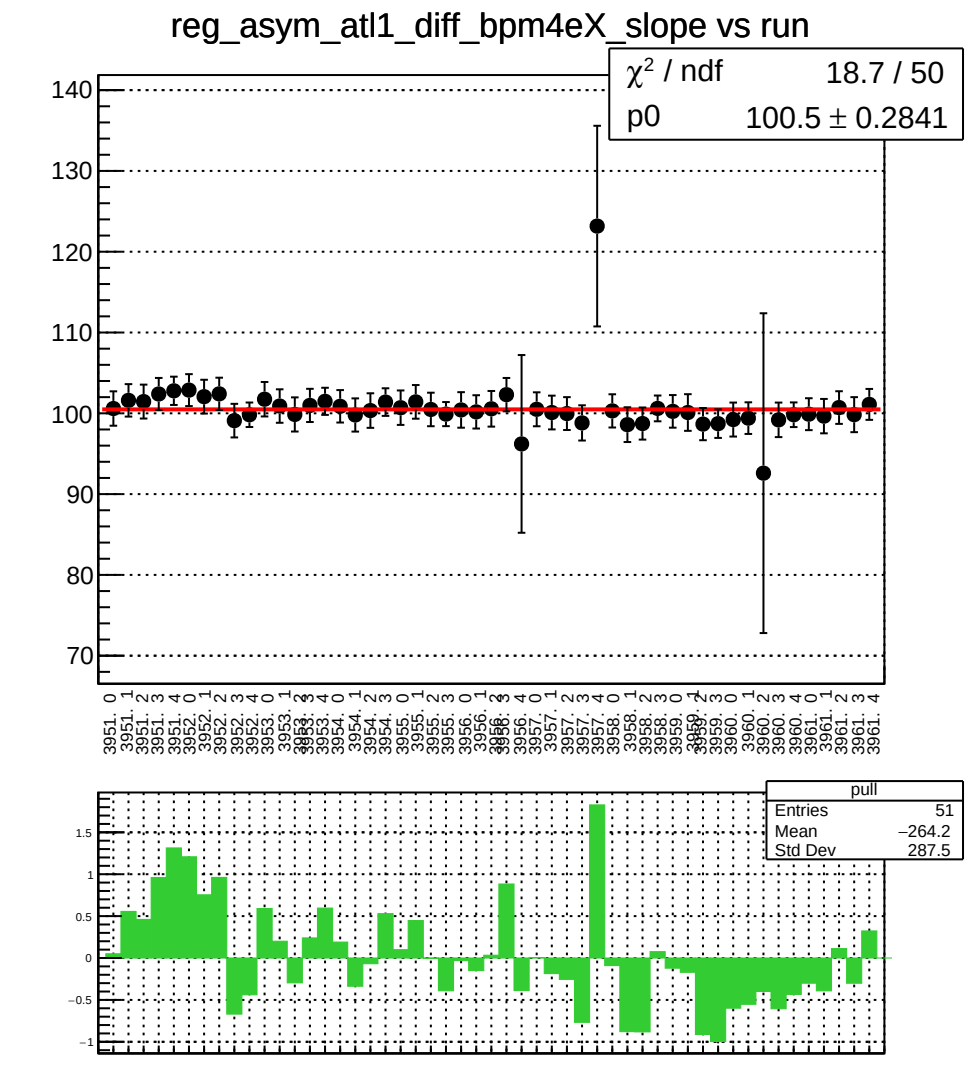

pull1D
Entries 51
Mean 0.003189
Std Dev 0.3231

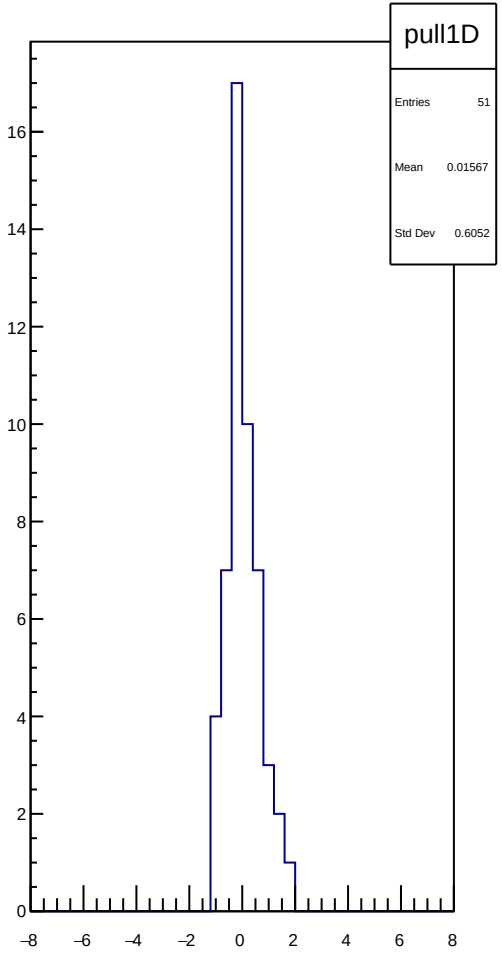

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 16.93 / 50
p0 −185.3 ± 0.4809
pull
Entries 51
Mean −396.9
Std Dev 422.8
pull1D
Entries 51
Mean 0.01457
Std Dev 0.5759

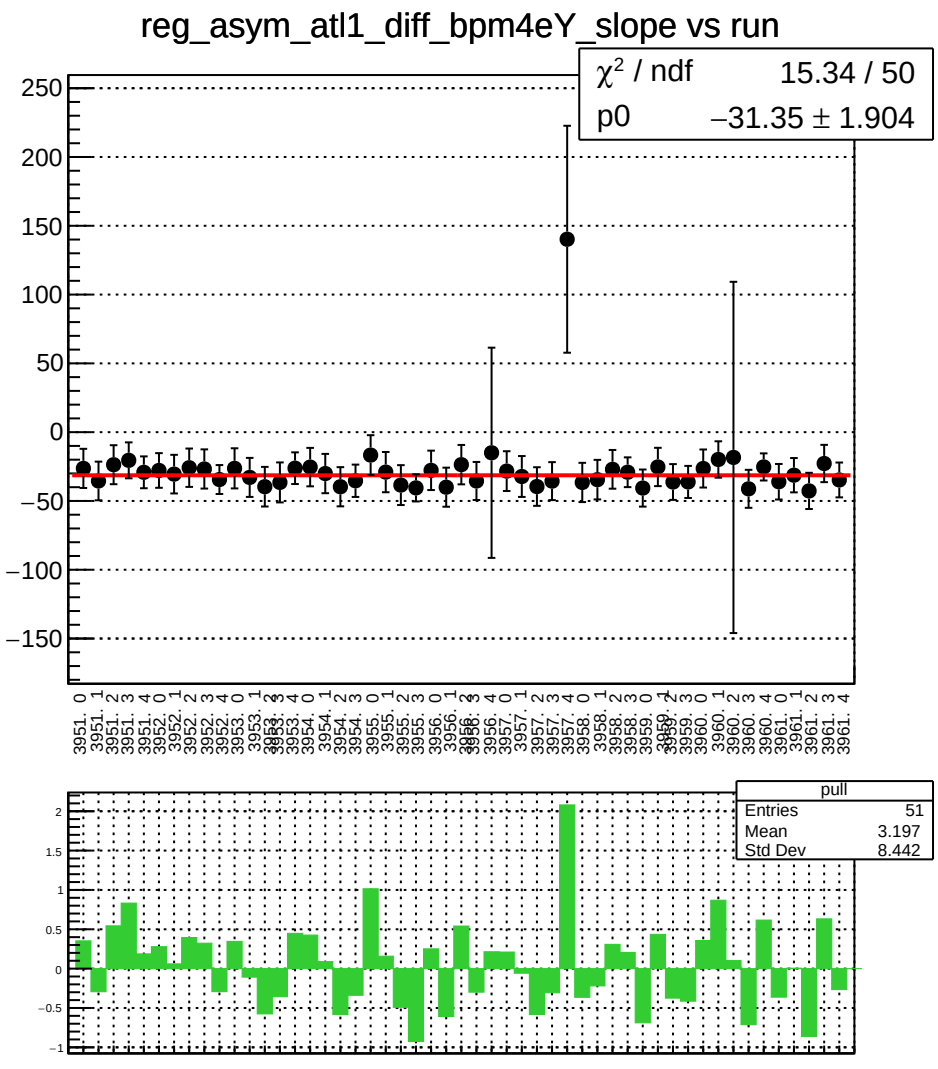

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 15.92 / 50
p0 −15.89 ± 1.663
200
100
0
−100
−200
pull
Entries 51
Mean −74.39
Std Dev 70.84
1
0.5
0
−0.5
−1
−1.5
−2

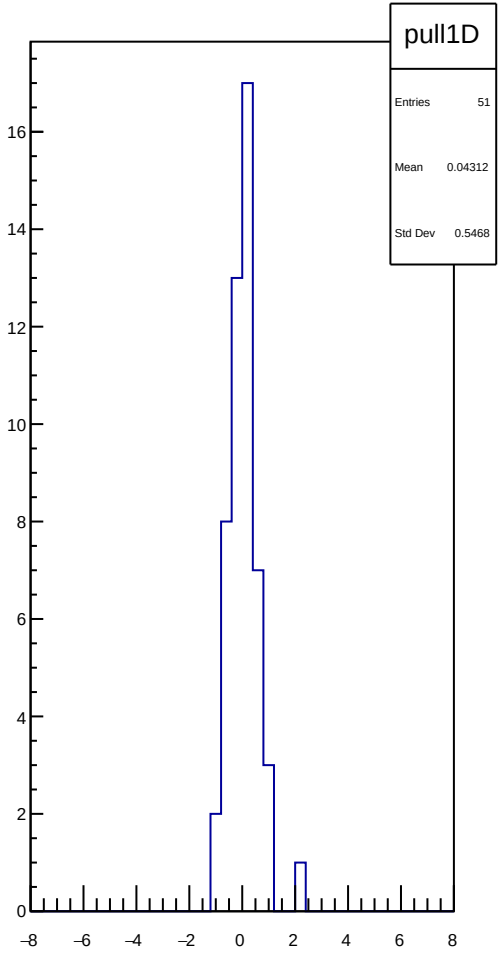

pull1D
Entries 51
Mean −0.004332
Std Dev 0.5586
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

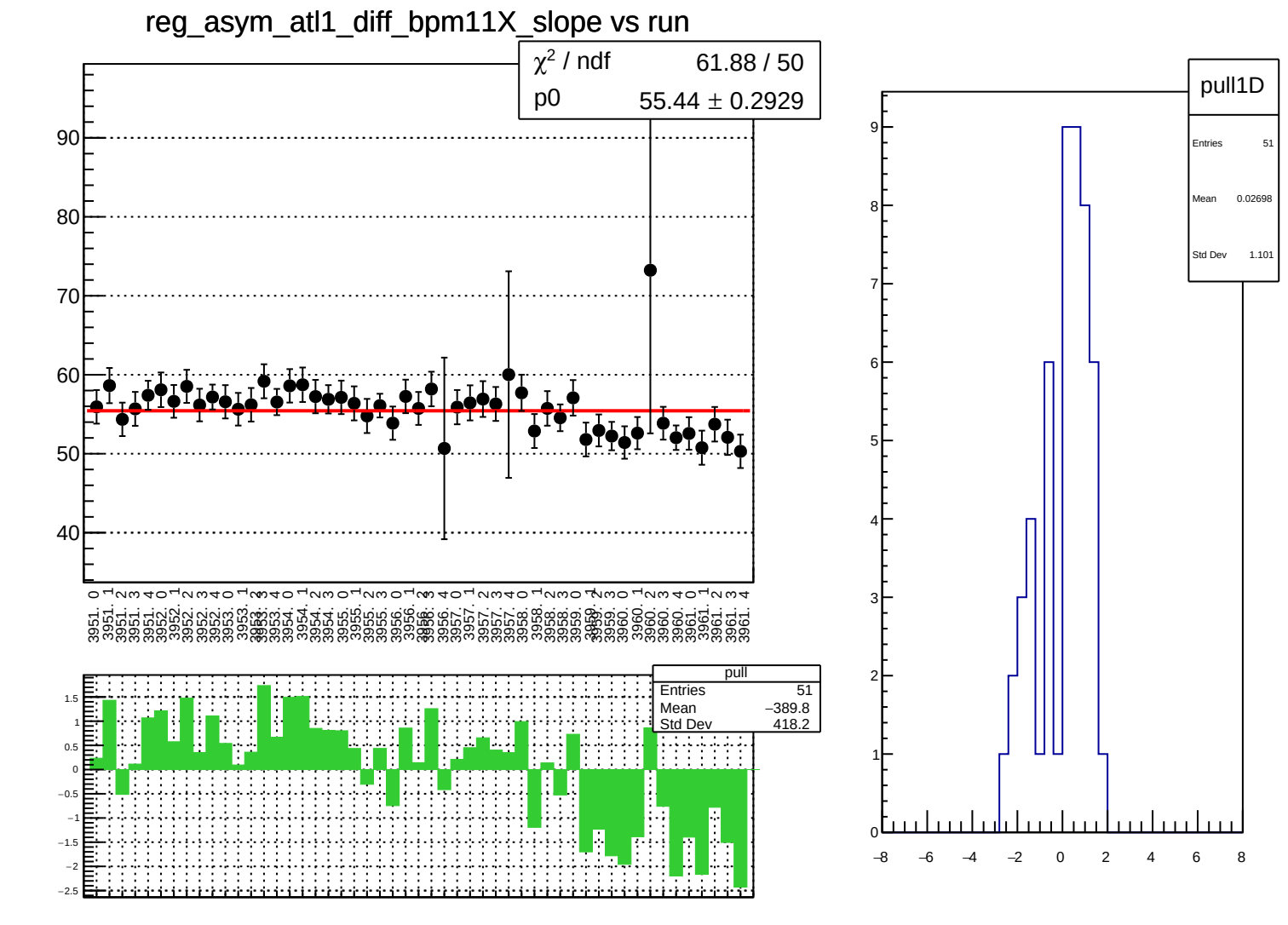

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 15.39 / 50
p0 4.221 ± 1.137
50
0
−50
−100
−150
pull
Entries 51
Mean −10.68
Std Dev 31.98
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 51
Mean −0.04251
Std Dev 0.5476
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

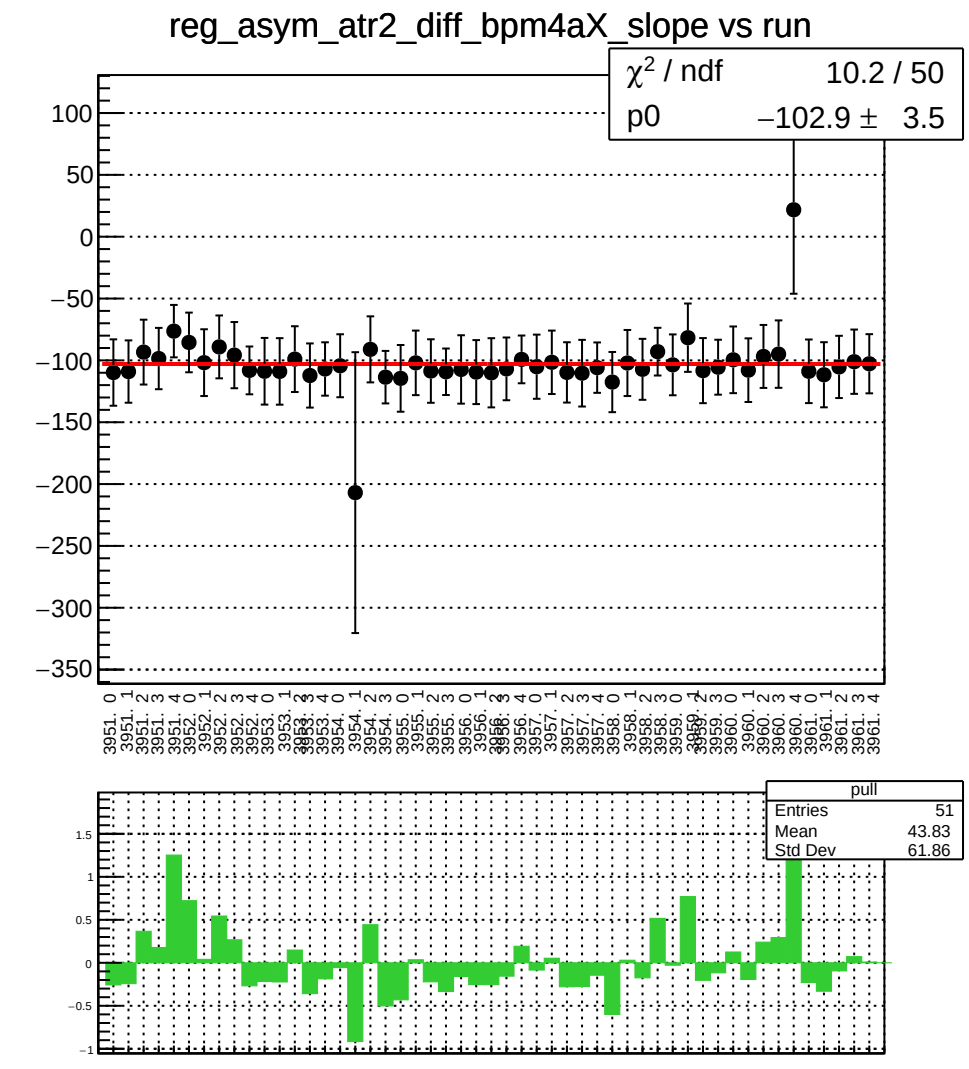

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 18.7 / 50
p0 100.5 ± 0.2841
pull
Entries 51
Mean −264.2
Std Dev 287.5

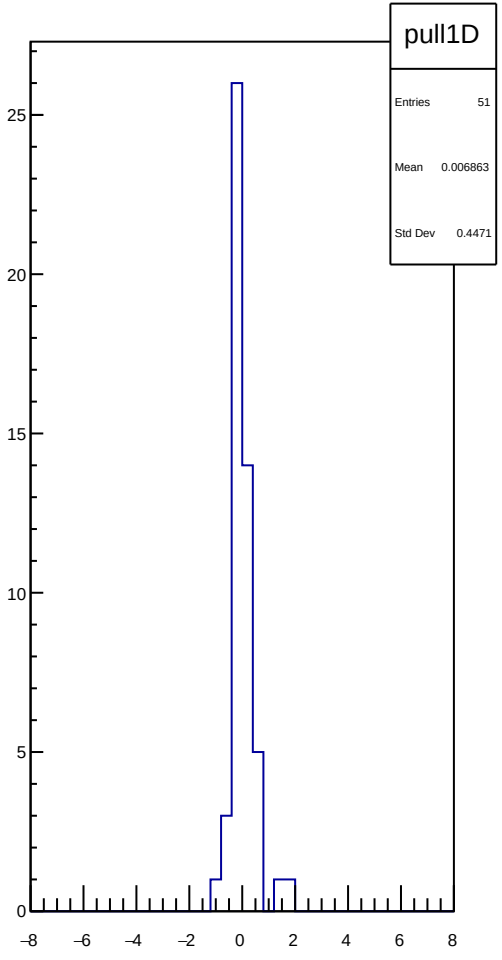

pull1D
Entries 51
Mean 0.01567
Std Dev 0.6052

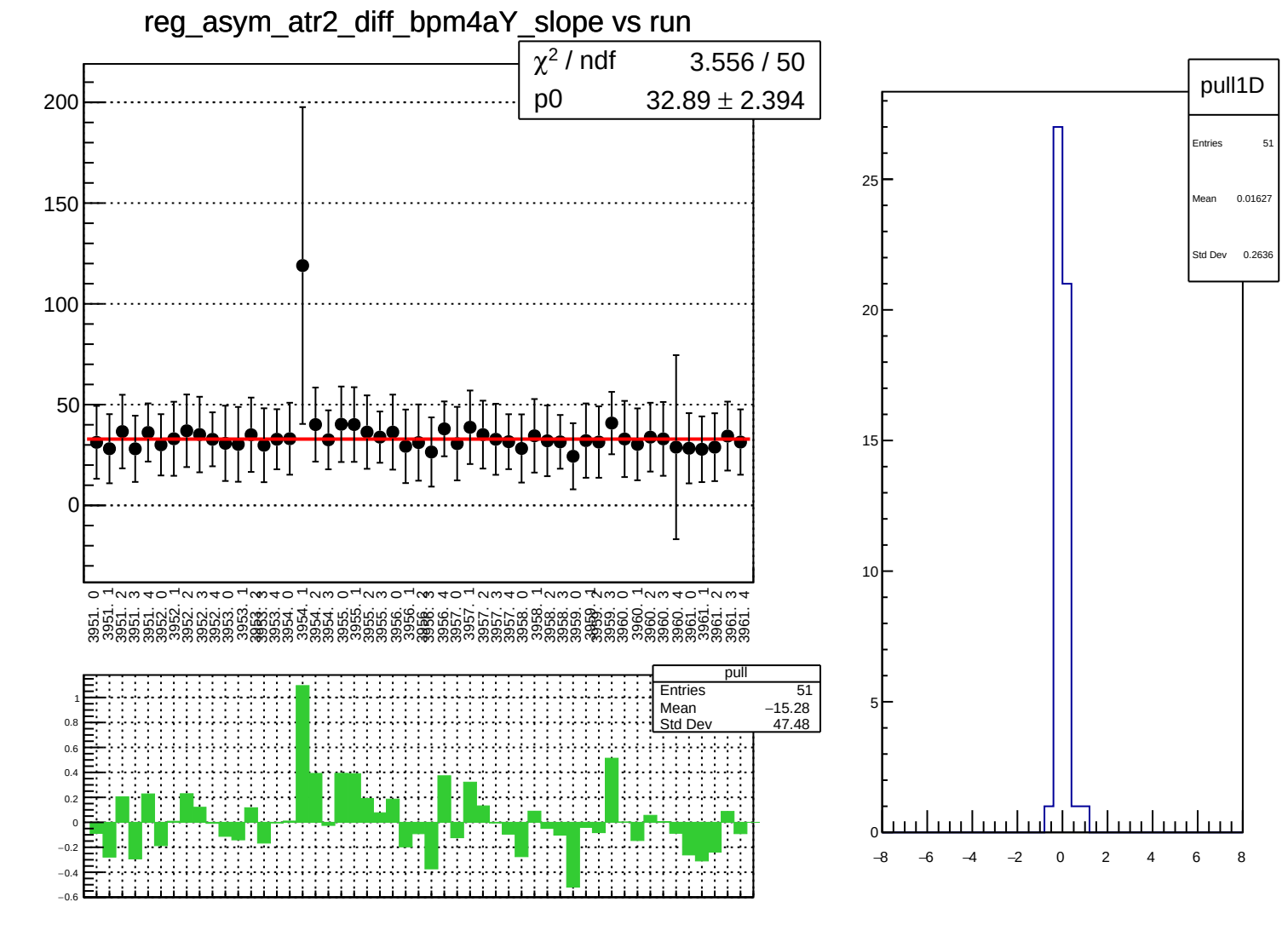

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 15.34 / 50
p0 −31.35 ± 1.904
pull
Entries 51
Mean 3.197
Std Dev 8.442

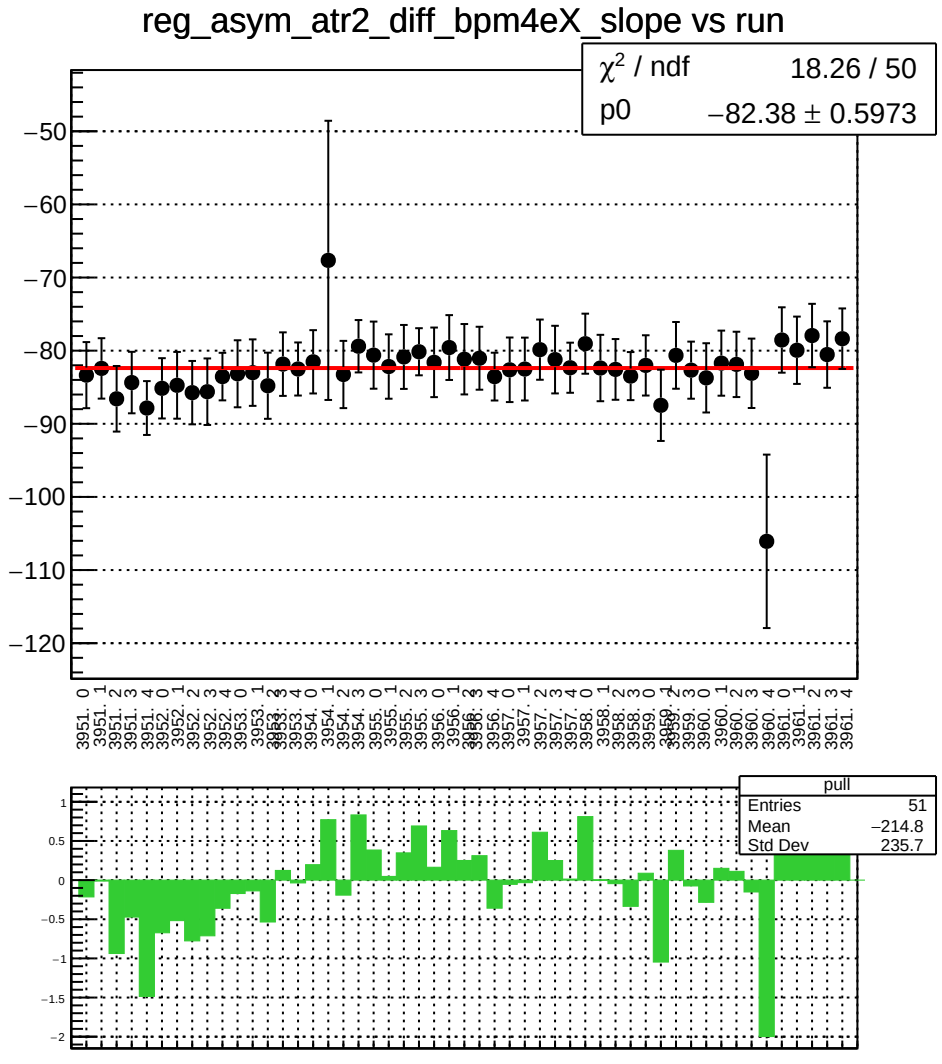

pull1D
Entries 51
Mean 0.04312
Std Dev 0.5468

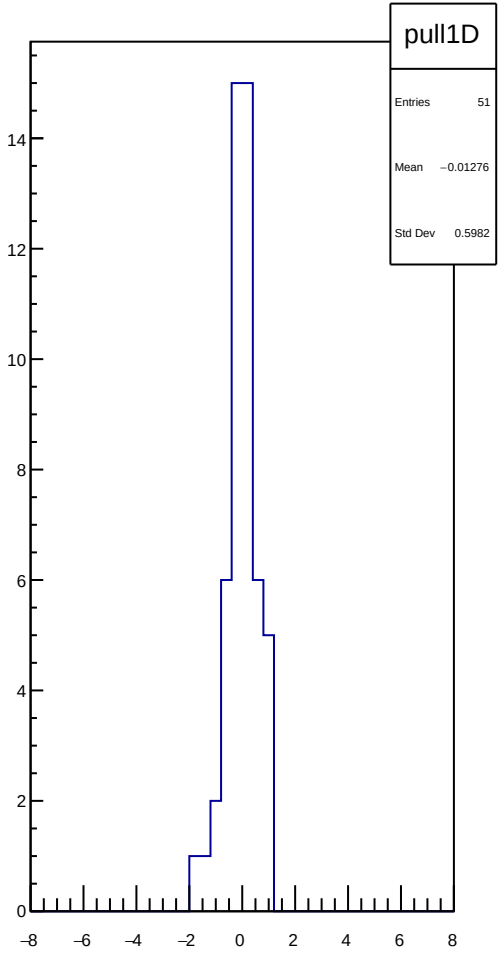

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 61.88 / 50
p0 55.44 ± 0.2929
pull
Entries 51
Mean −389.8
Std Dev 418.2
pull1D
Entries 51
Mean 0.02698
Std Dev 1.101

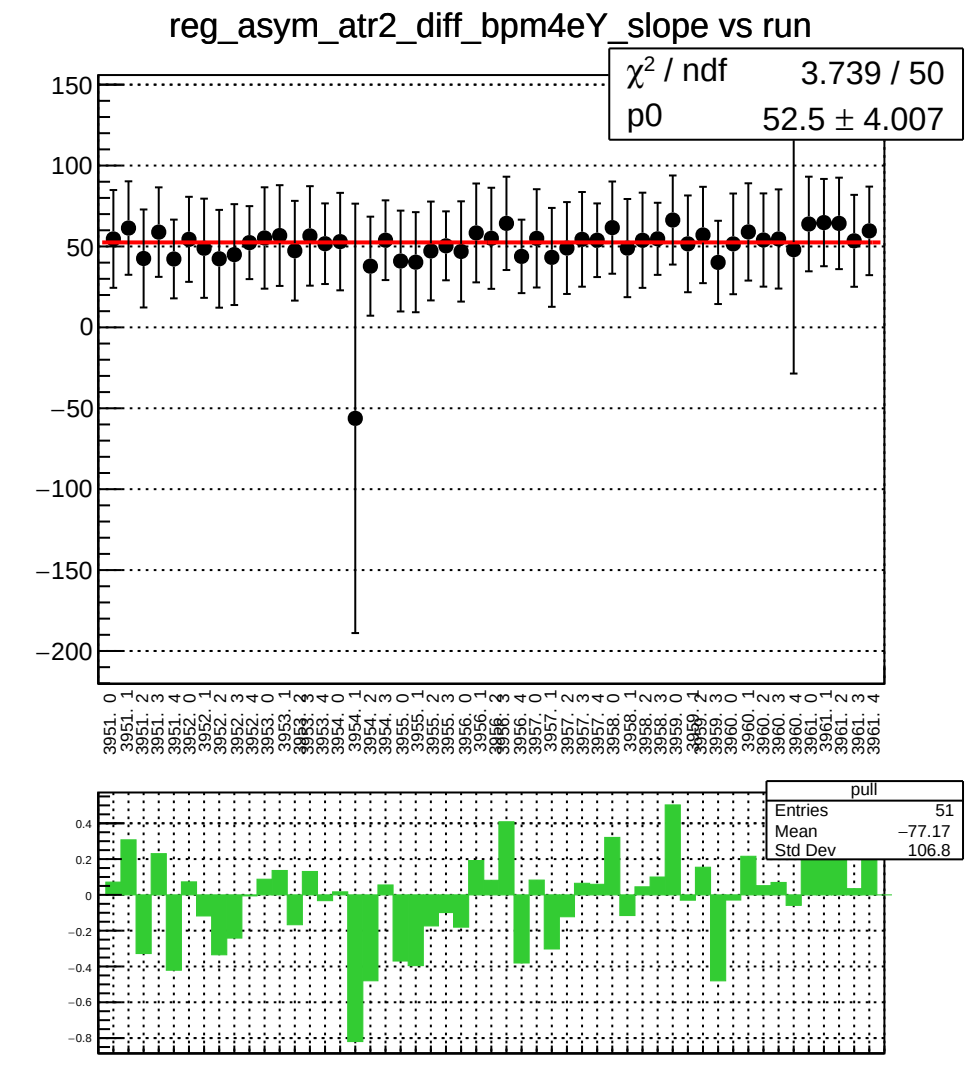

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 10.2 / 50
p0 −102.9 ± 3.5
pull
Entries 51
Mean 43.83
Std Dev 61.86

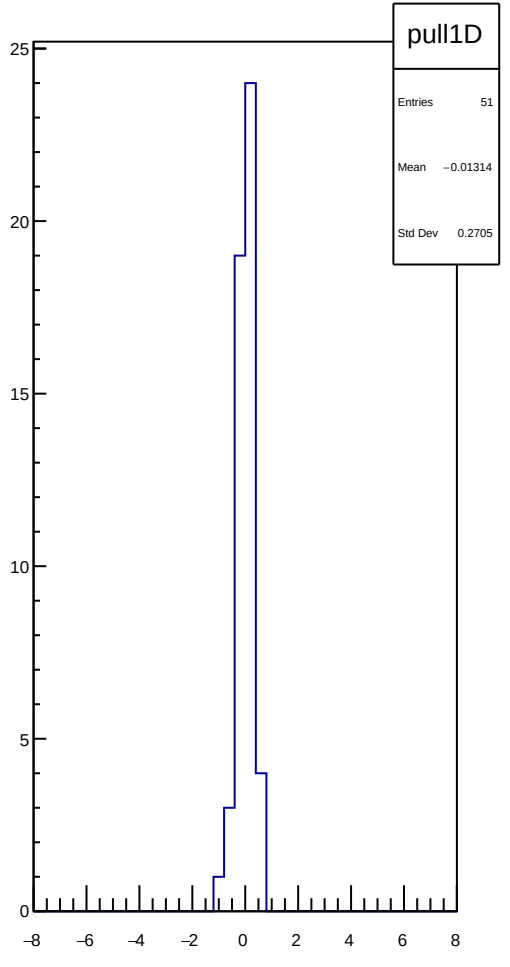

pull1D
Entries 51
Mean 0.006863
Std Dev 0.4471

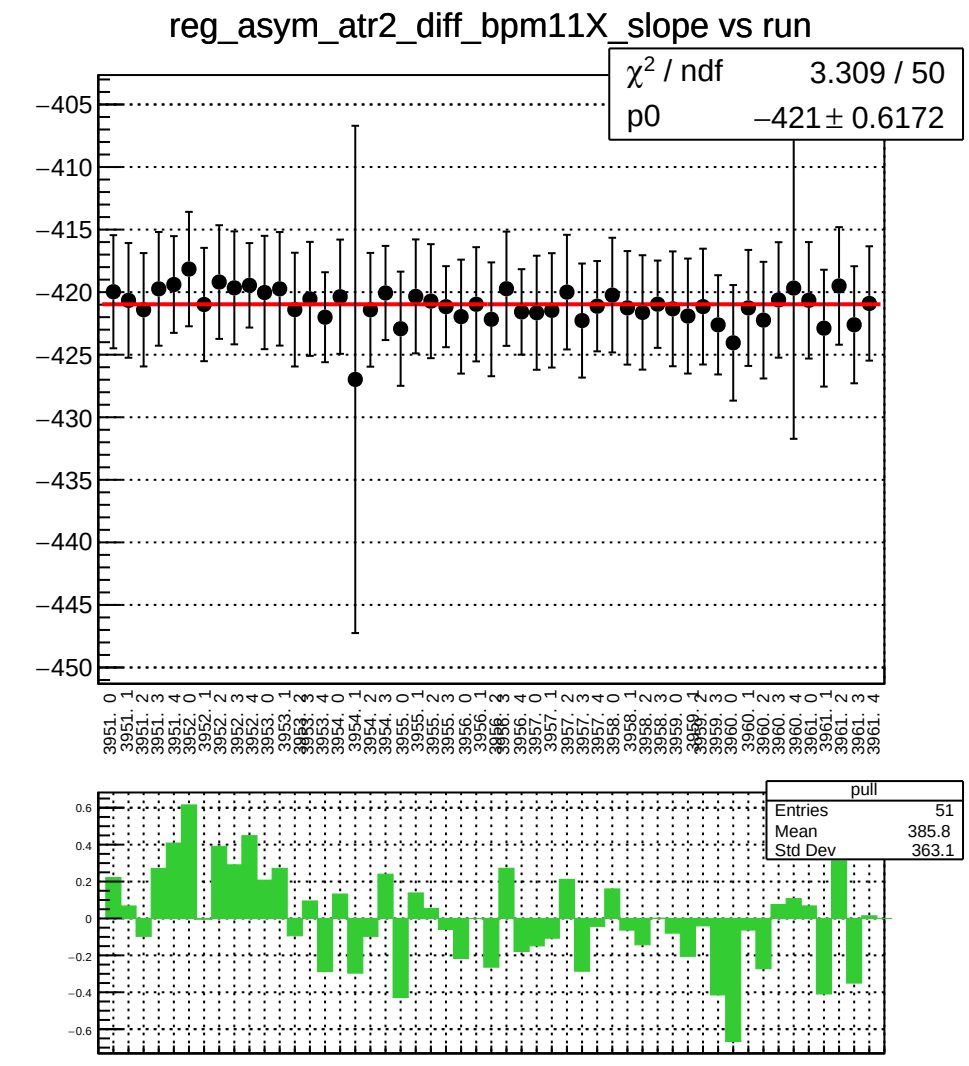

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.556 / 50
p0 32.89 ± 2.394
pull
Entries 51
Mean −15.28
Std Dev 47.48
pull1D
Entries 51
Mean 0.01627
Std Dev 0.2636

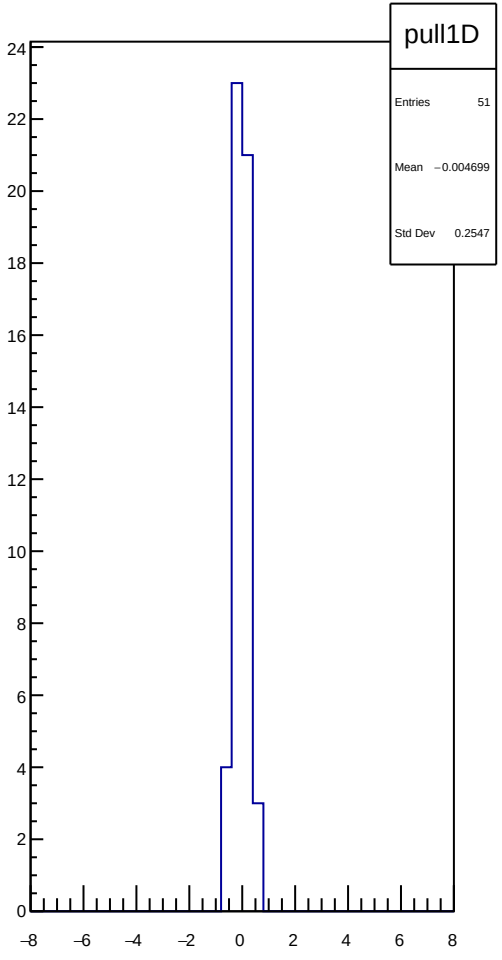

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 18.26 / 50
p0 −82.38 ± 0.5973
pull
Entries 51
Mean −214.8
Std Dev 235.7

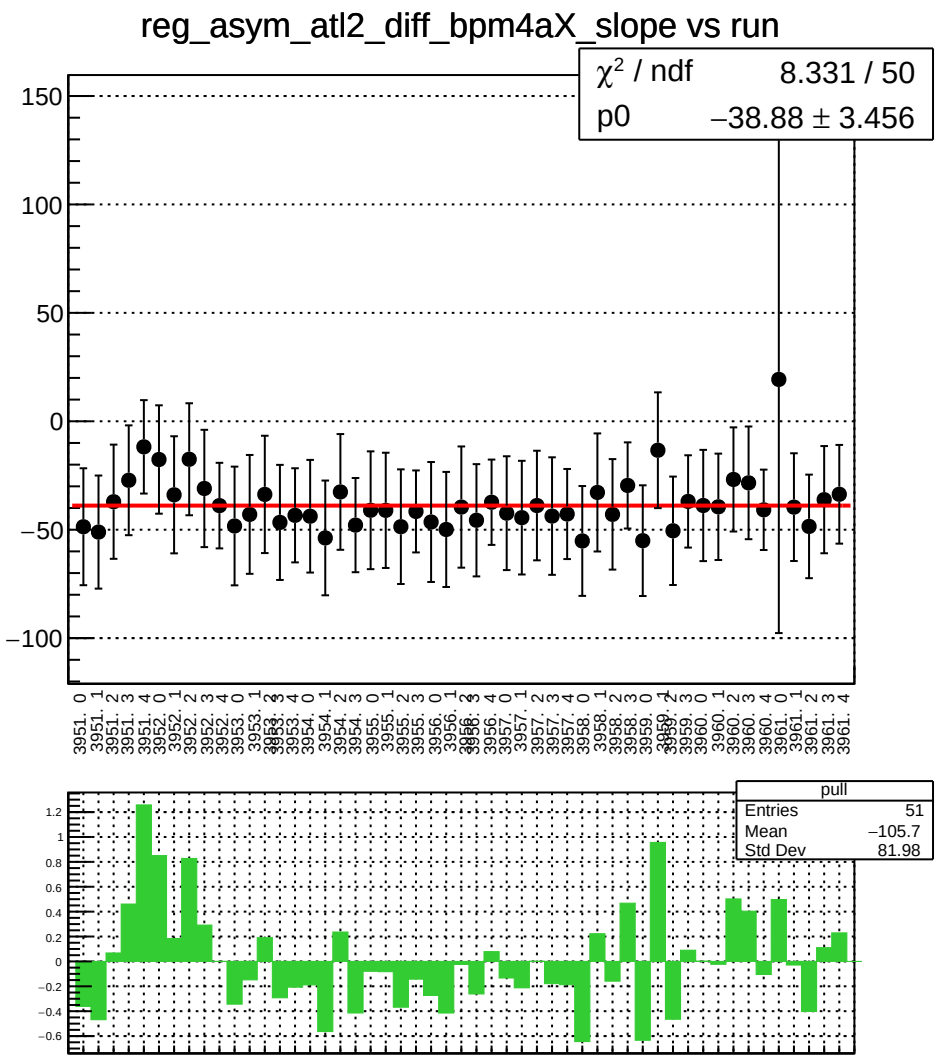

pull1D
Entries 51
Mean −0.01276
Std Dev 0.5982

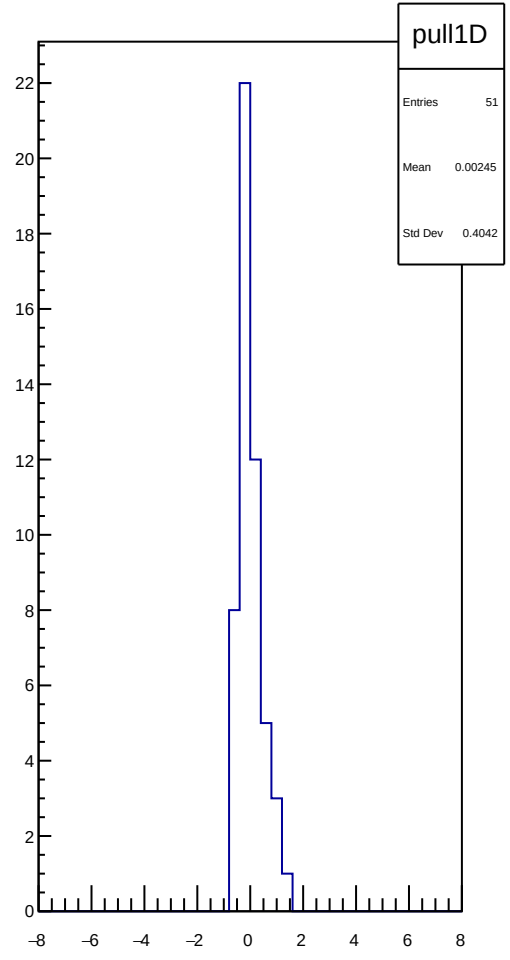

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.739 / 50
p0 52.5 ± 4.007
150
100
50
0
−50
−100
−150
−200
pull
Entries 51
Mean −77.17
Std Dev 106.8
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

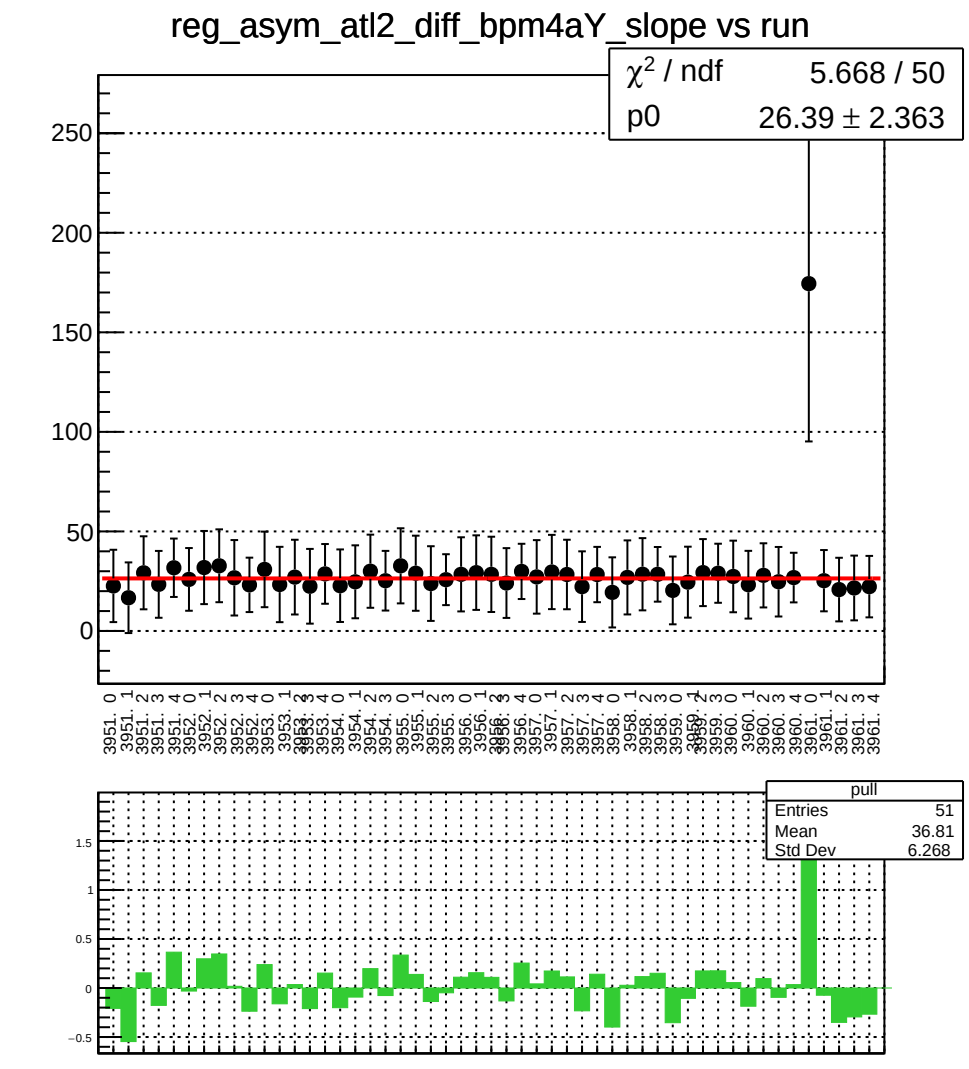

pull1D
Entries 51
Mean −0.01314
Std Dev 0.2705
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

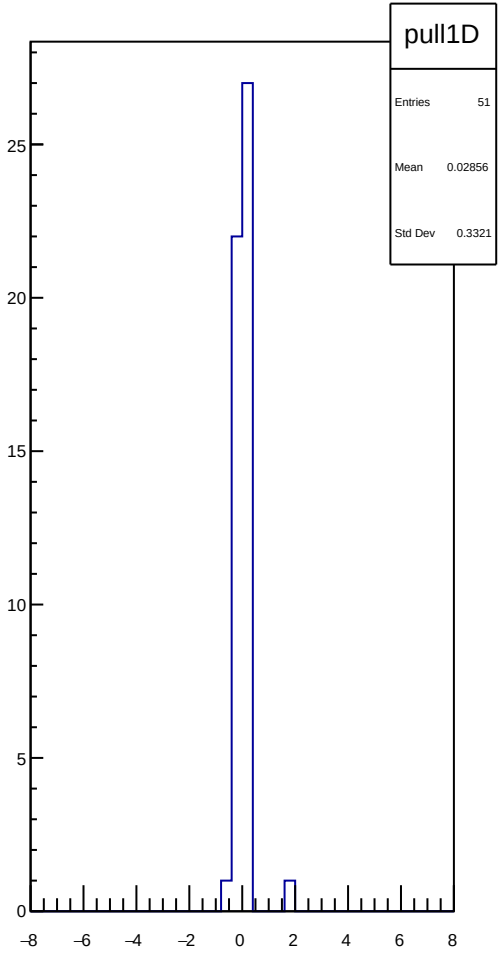

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 3.309 / 50
p0 −421 ± 0.6172
pull
Entries 51
Mean 385.8
Std Dev 363.1

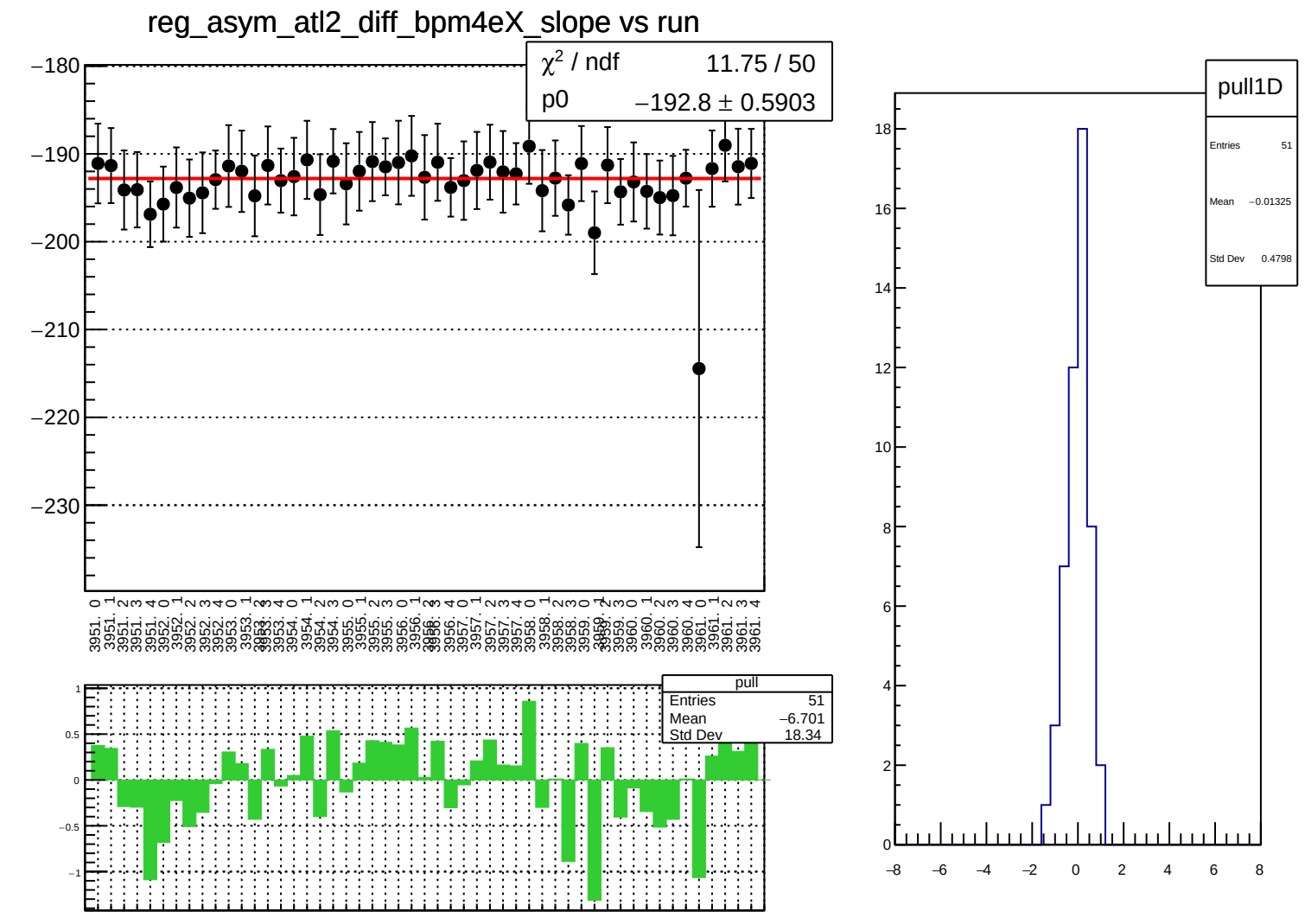

pull1D
Entries 51
Mean −0.004699
Std Dev 0.2547

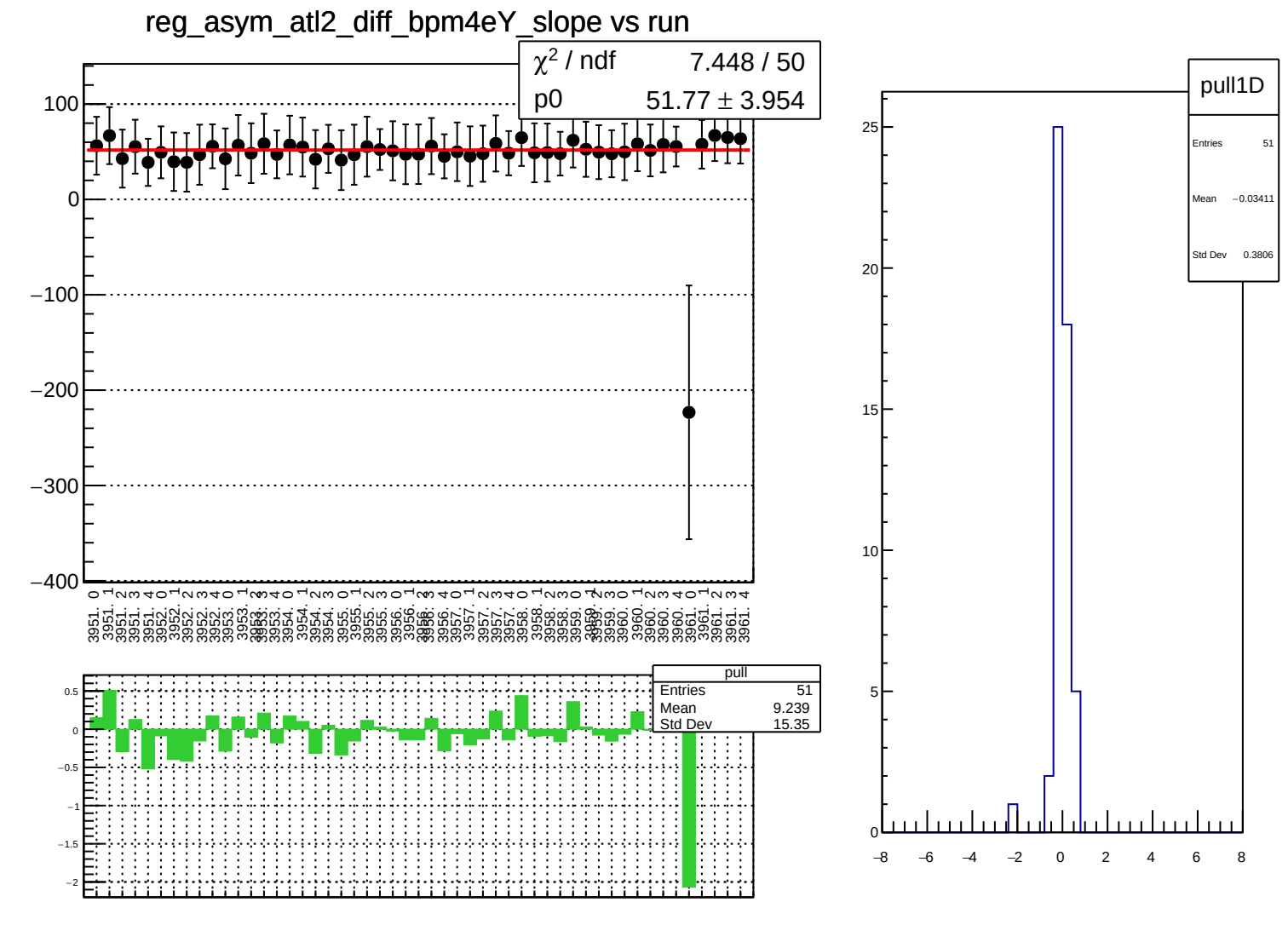

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 8.331 / 50
p0 −38.88 ± 3.456
pull
Entries 51
Mean −105.7
Std Dev 81.98

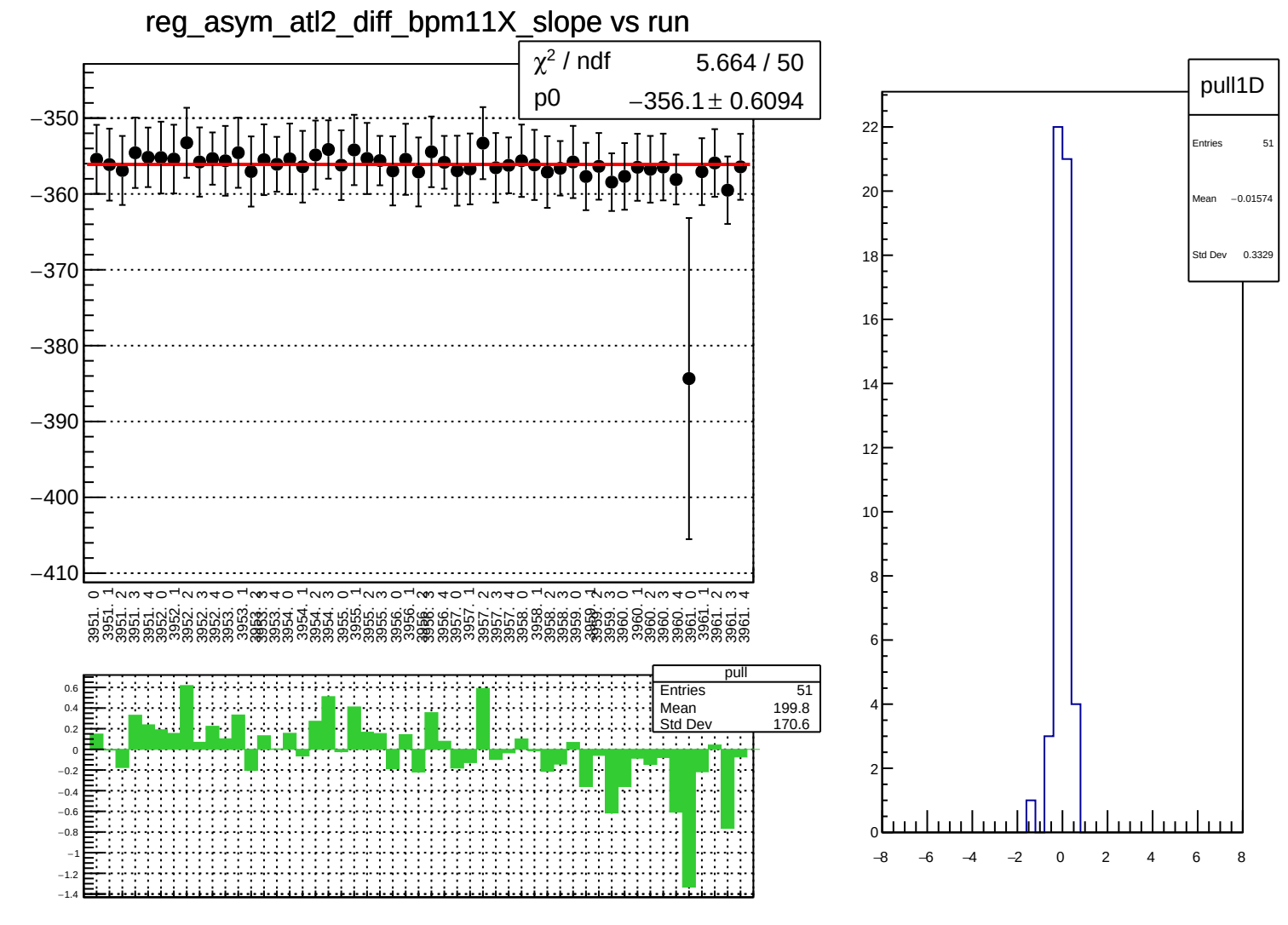

pull1D
Entries 51
Mean 0.00245
Std Dev 0.4042

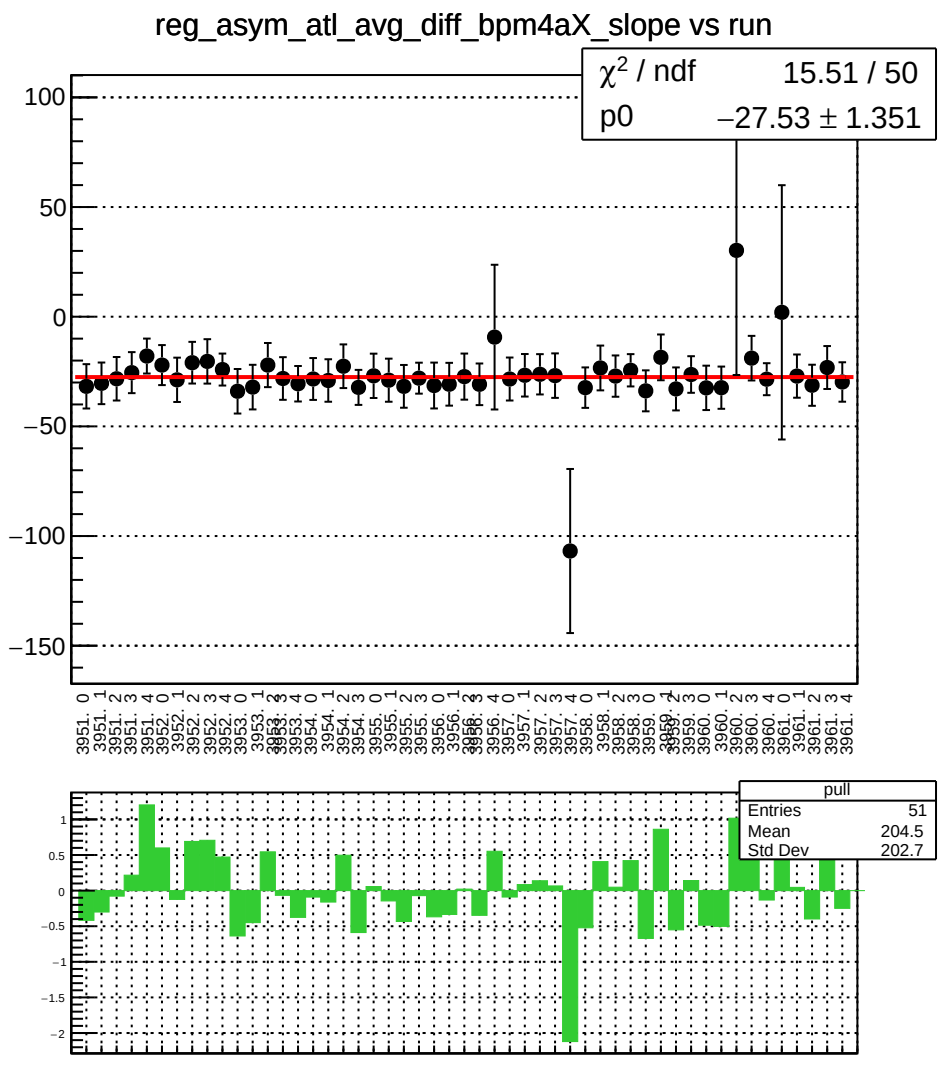

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.668 / 50
p0 26.39 ± 2.363
pull
Entries 51
Mean 36.81
Std Dev 6.268

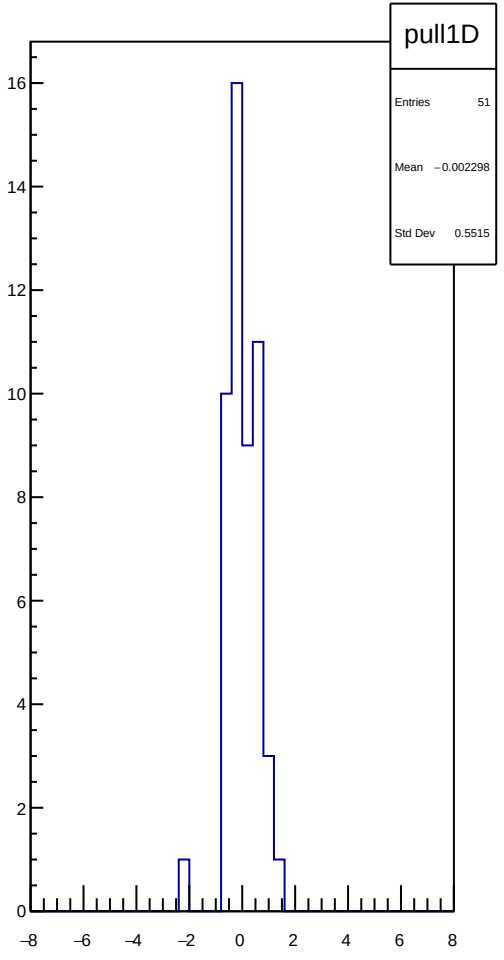

pull1D
Entries 51
Mean 0.02856
Std Dev 0.3321

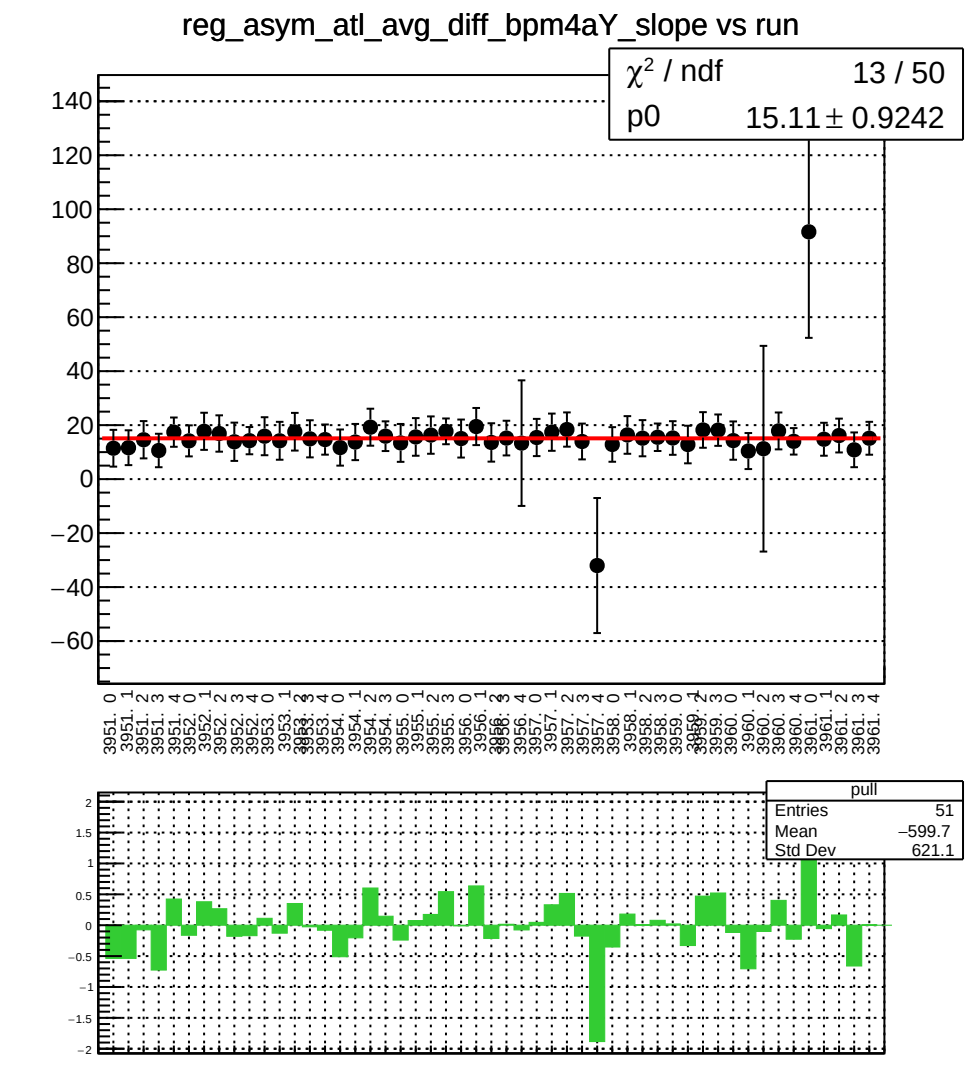

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 11.75 / 50
p0 −192.8 ± 0.5903
pull
Entries 51
Mean −6.701
Std Dev 18.34
pull1D
Entries 51
Mean −0.01325
Std Dev 0.4798

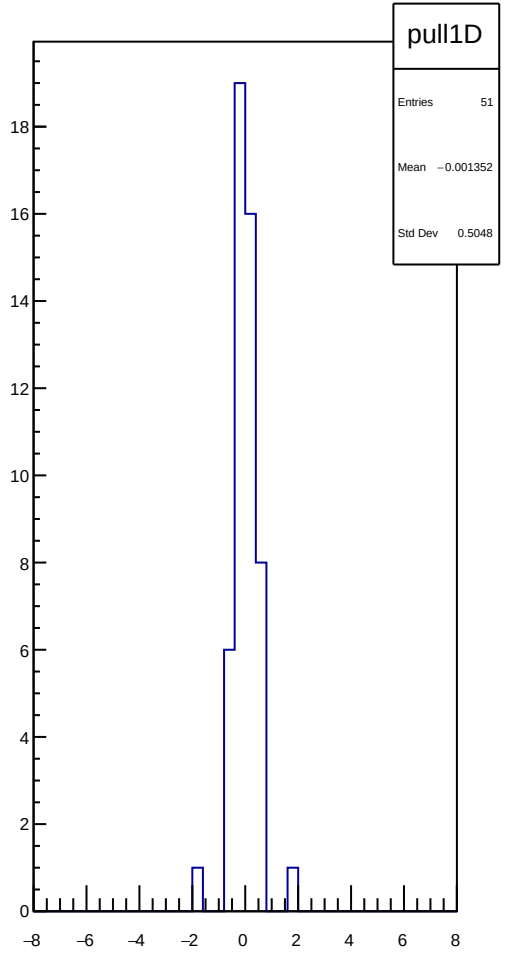

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 7.448 / 50
p0 51.77 ± 3.954
pull
Entries 51
Mean 9.239
Std Dev 15.35
pull1D
Entries 51
Mean −0.03411
Std Dev 0.3806

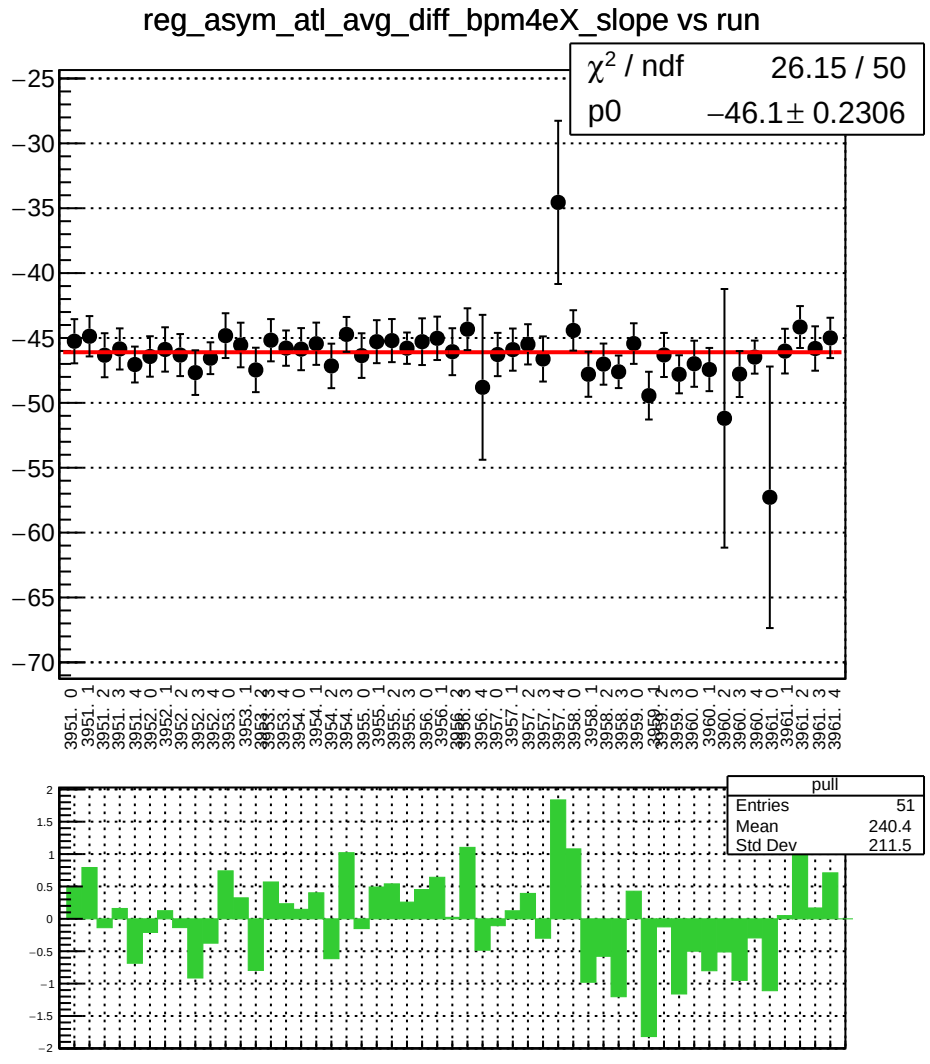

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 5.664 / 50
p0 −356.1 ± 0.6094
pull
Entries 51
Mean 199.8
Std Dev 170.6
pull1D
Entries 51
Mean −0.01574
Std Dev 0.3329

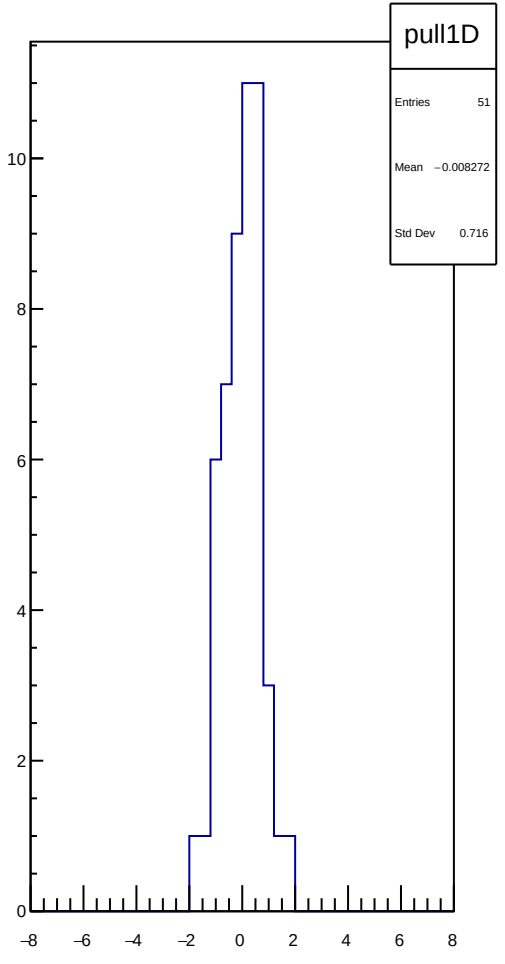

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 15.51 / 50
p0 −27.53 ± 1.351
pull
Entries 51
Mean 204.5
Std Dev 202.7

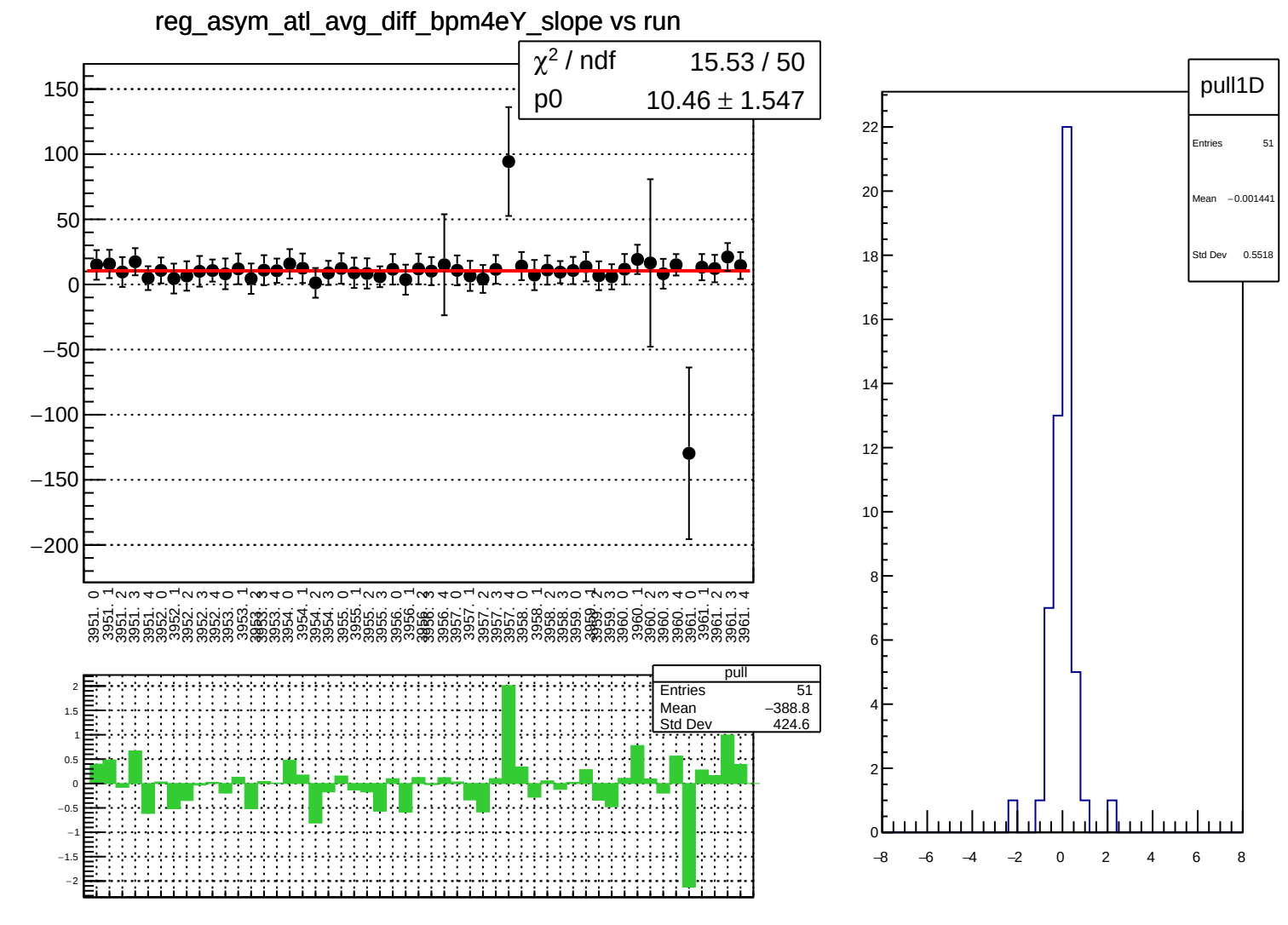

pull1D
Entries 51
Mean −0.002298
Std Dev 0.5515

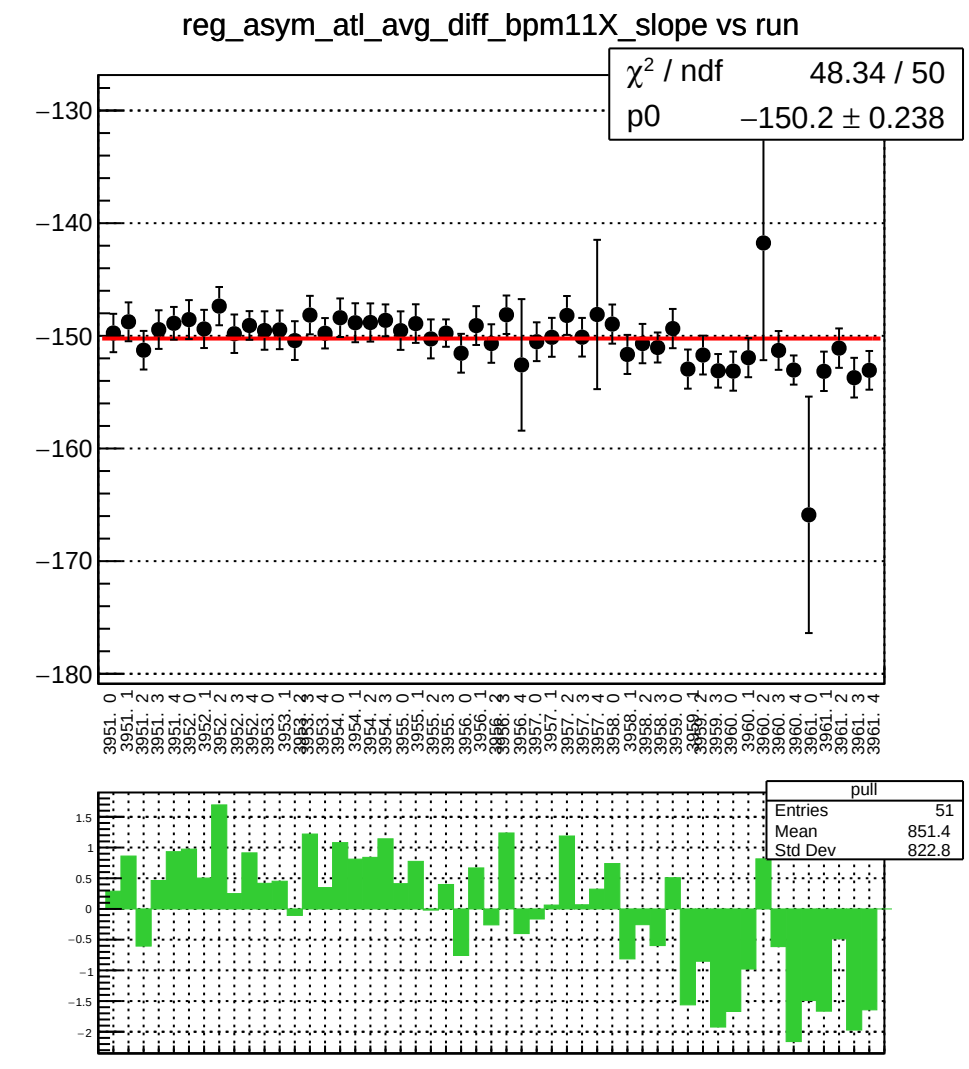

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 13 / 50
p0 15.11 ± 0.9242
pull
Entries 51
Mean −599.7
Std Dev 621.1

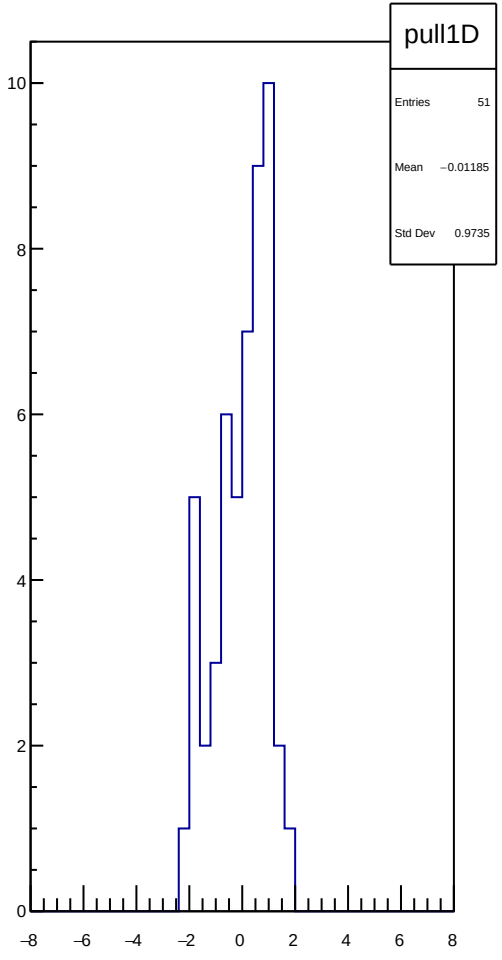

pull1D
Entries 51
Mean −0.001352
Std Dev 0.5048

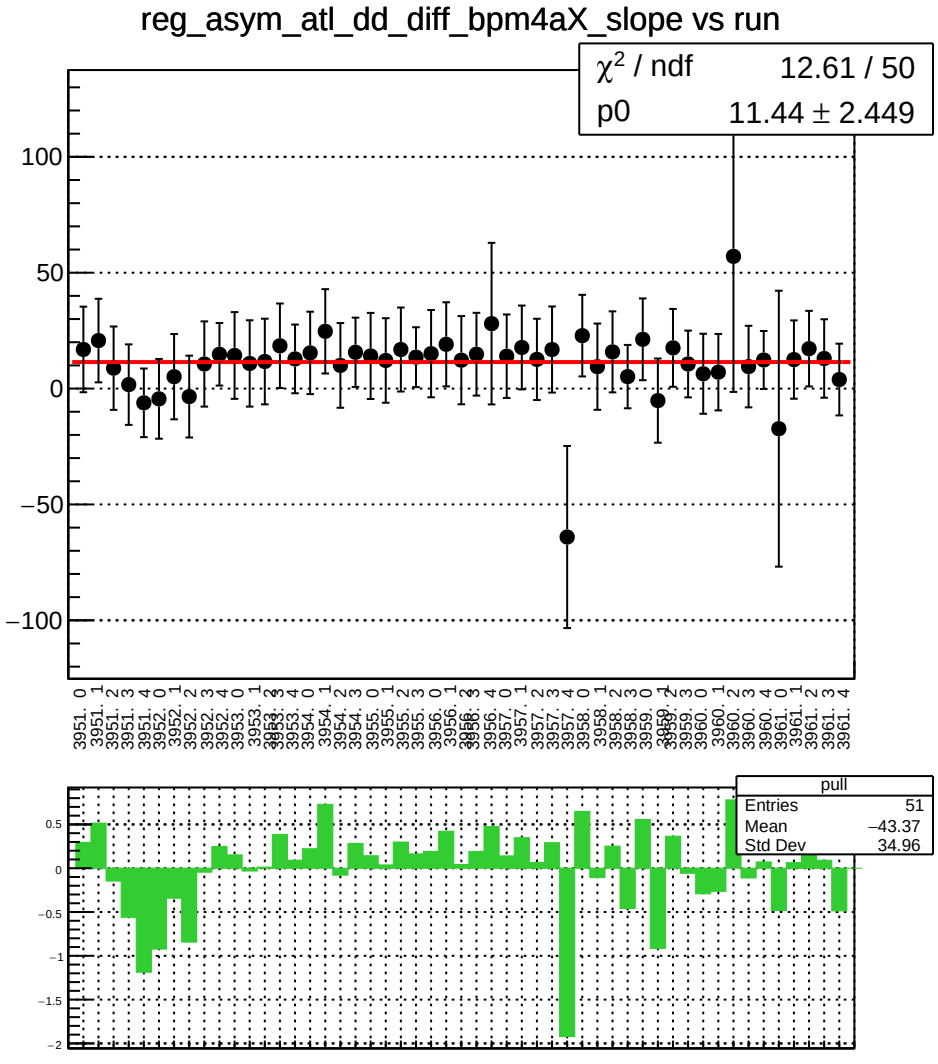

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.15 / 50
p0 −46.1 ± 0.2306
pull
Entries 51
Mean 240.4
Std Dev 211.5

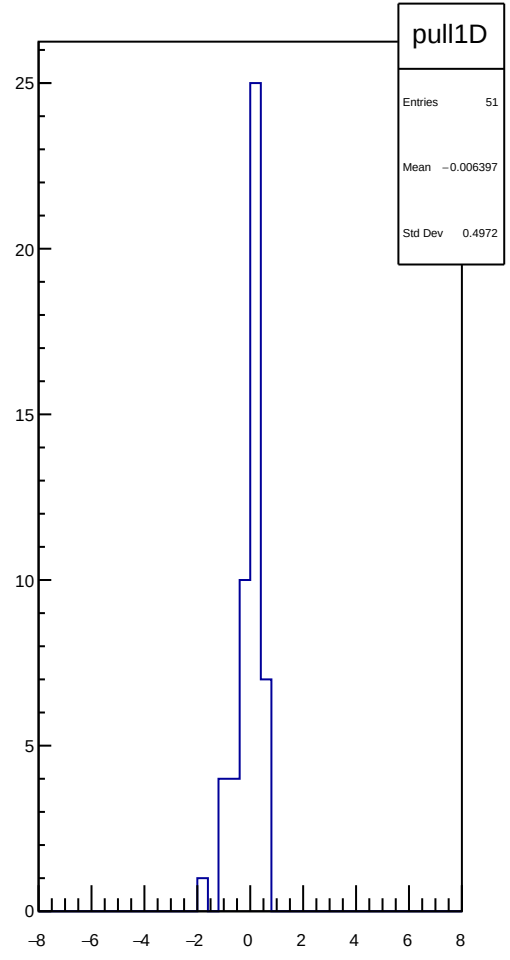

pull1D
Entries 51
Mean −0.008272
Std Dev 0.716

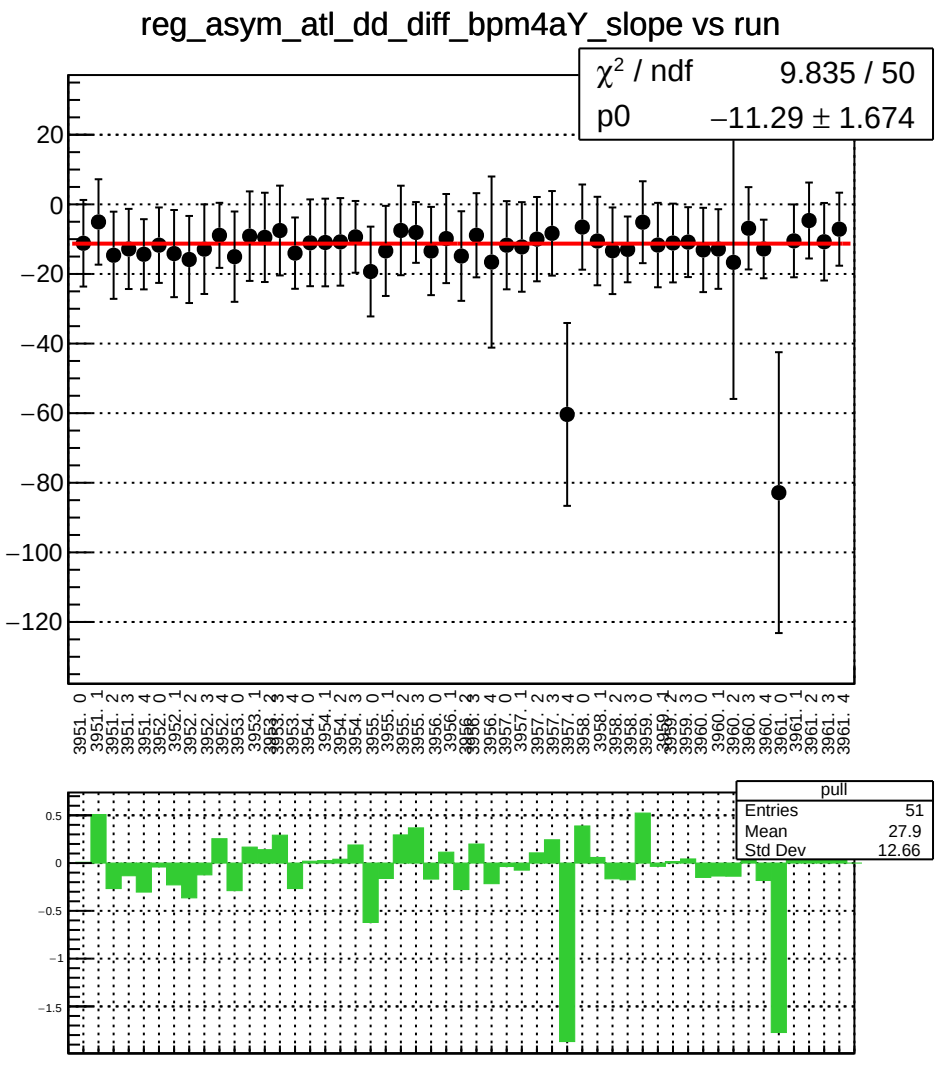

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.53 / 50
p0 10.46 ± 1.547
pull
Entries 51
Mean −388.8
Std Dev 424.6
pull1D
Entries 51
Mean −0.001441
Std Dev 0.5518

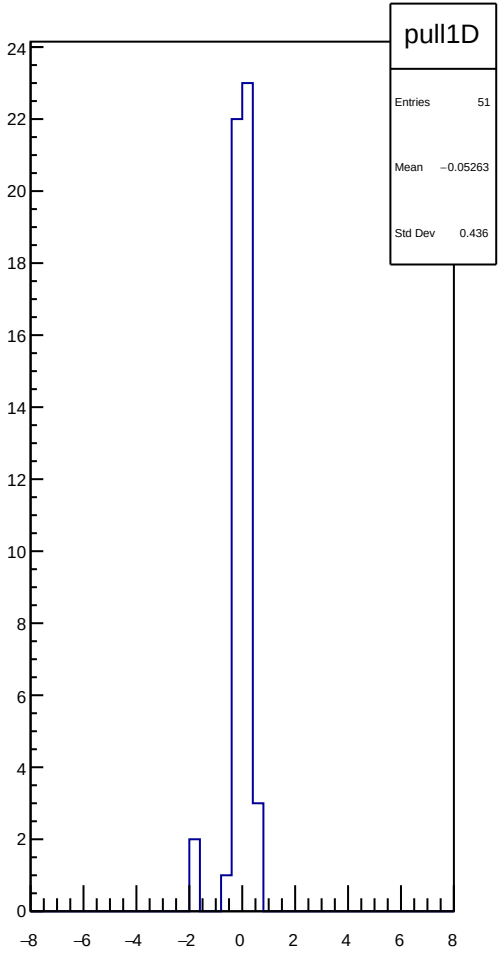

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 48.34 / 50
p0 −150.2 ± 0.238
pull
Entries 51
Mean 851.4
Std Dev 822.8

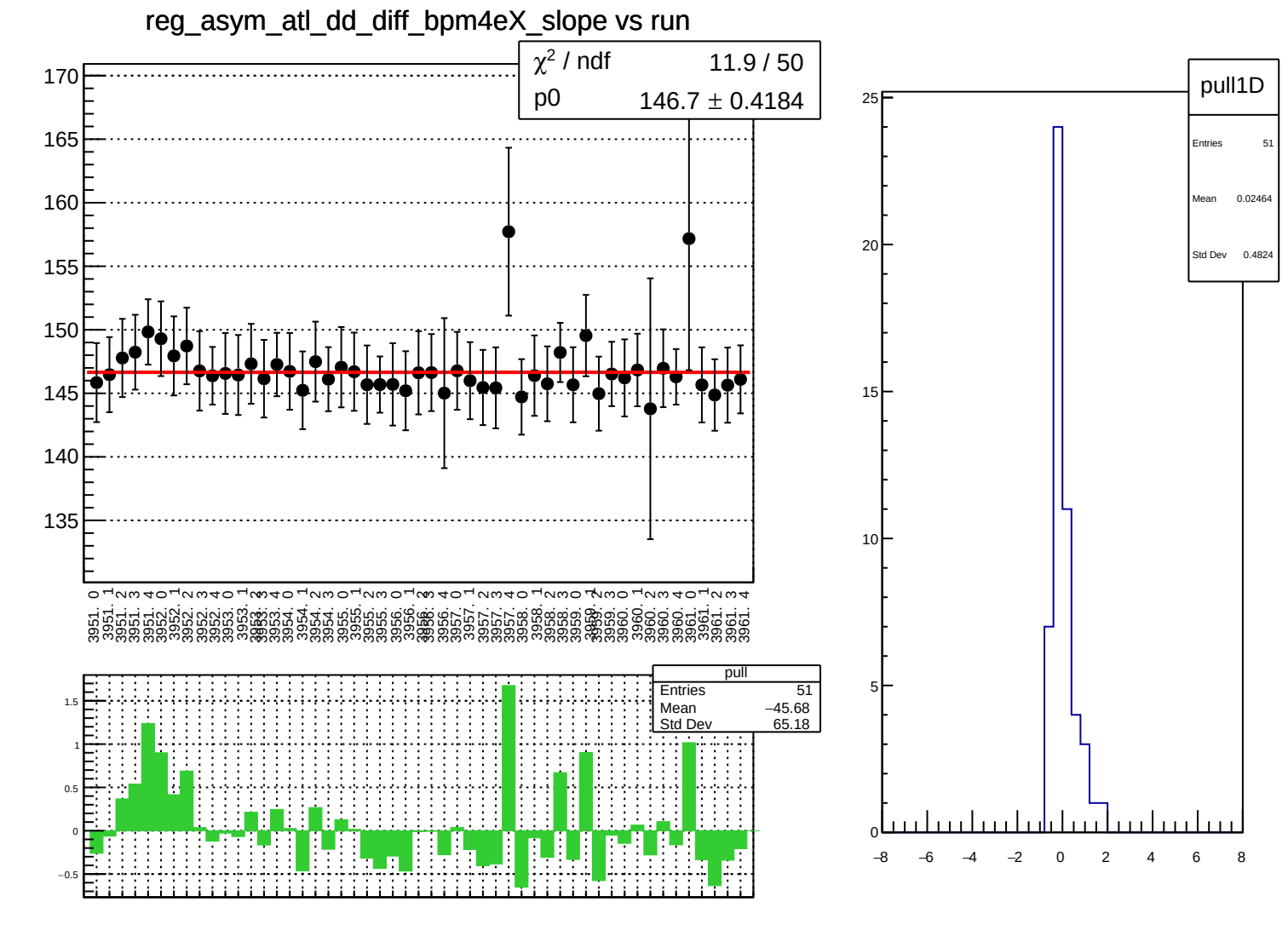

pull1D
Entries 51
Mean −0.01185
Std Dev 0.9735

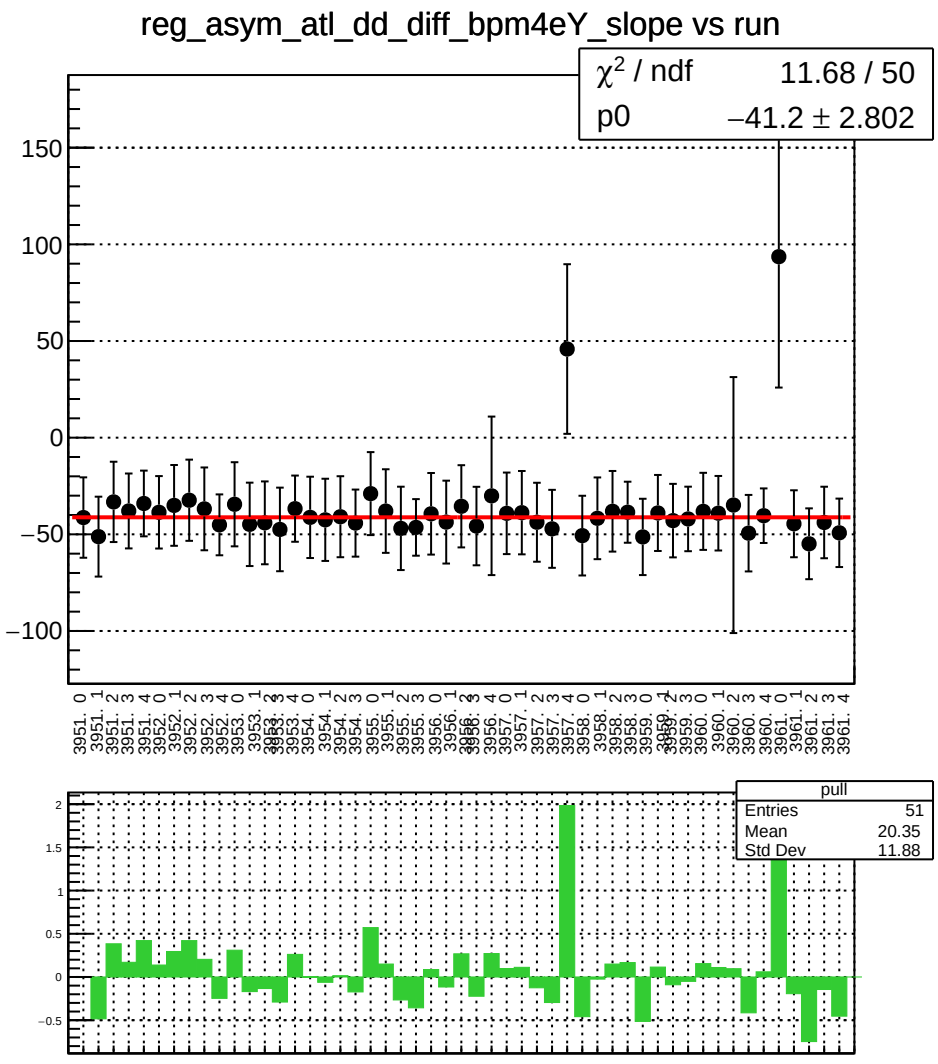

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.61 / 50
p0 11.44 ± 2.449
pull
Entries 51
Mean −43.37
Std Dev 34.96

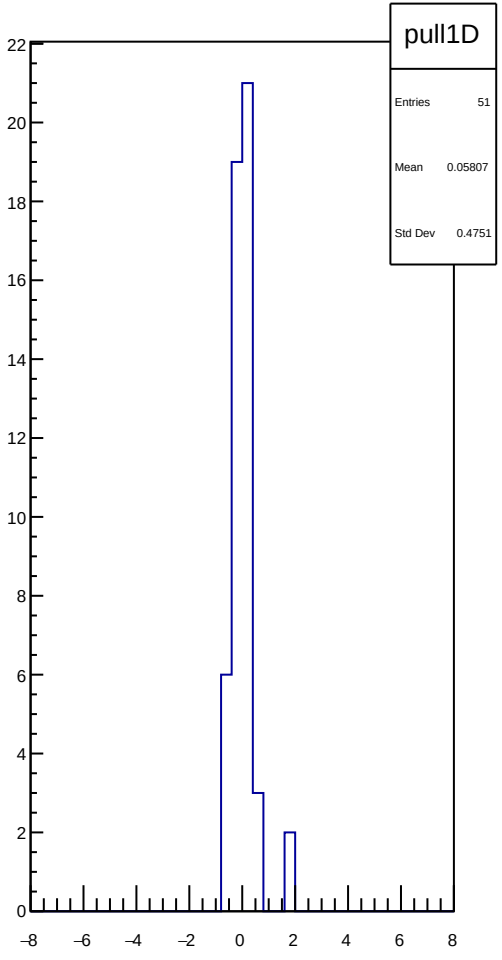

pull1D
Entries 51
Mean −0.006397
Std Dev 0.4972

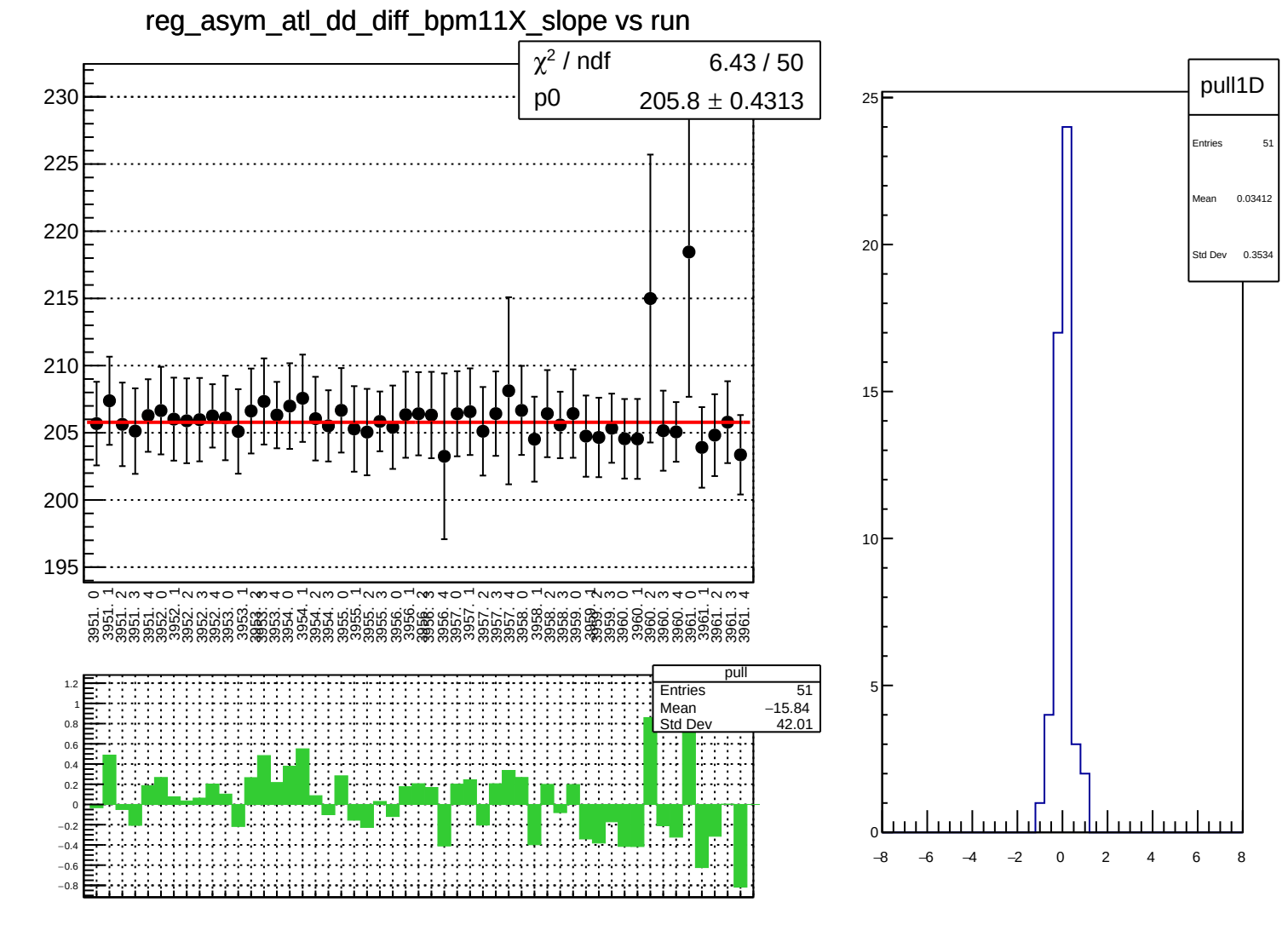

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.835 / 50
p0 −11.29 ± 1.674
pull
Entries 51
Mean 27.9
Std Dev 12.66

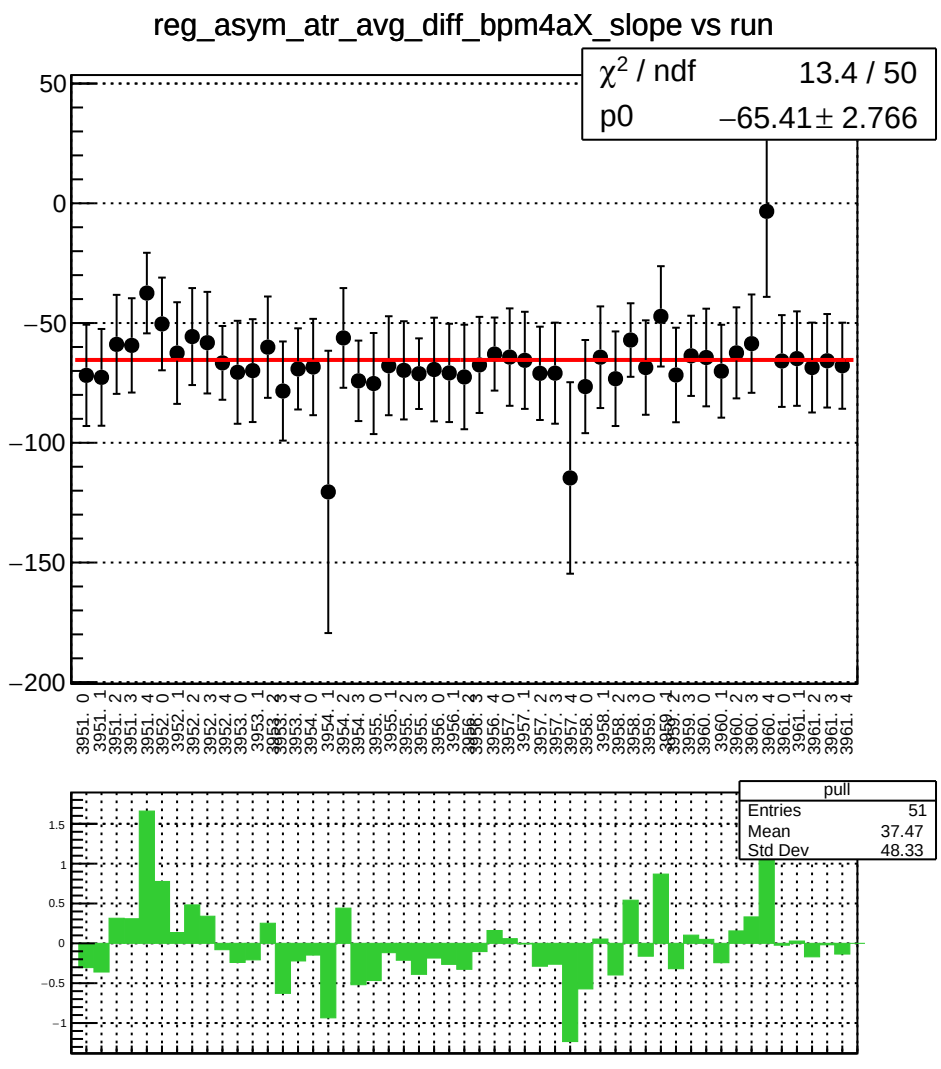

pull1D
Entries 51
Mean −0.05263
Std Dev 0.436

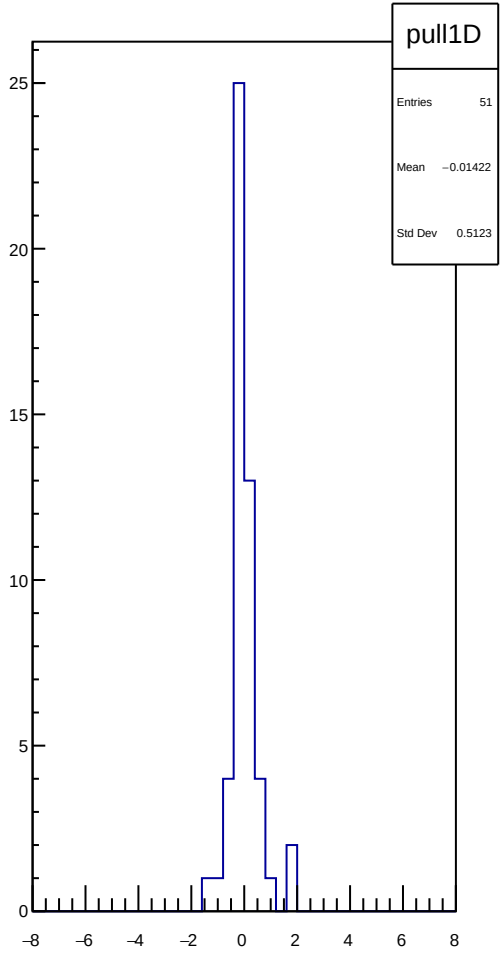

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.9 / 50
p0 146.7 ± 0.4184
pull
Entries 51
Mean −45.68
Std Dev 65.18
pull1D
Entries 51
Mean 0.02464
Std Dev 0.4824

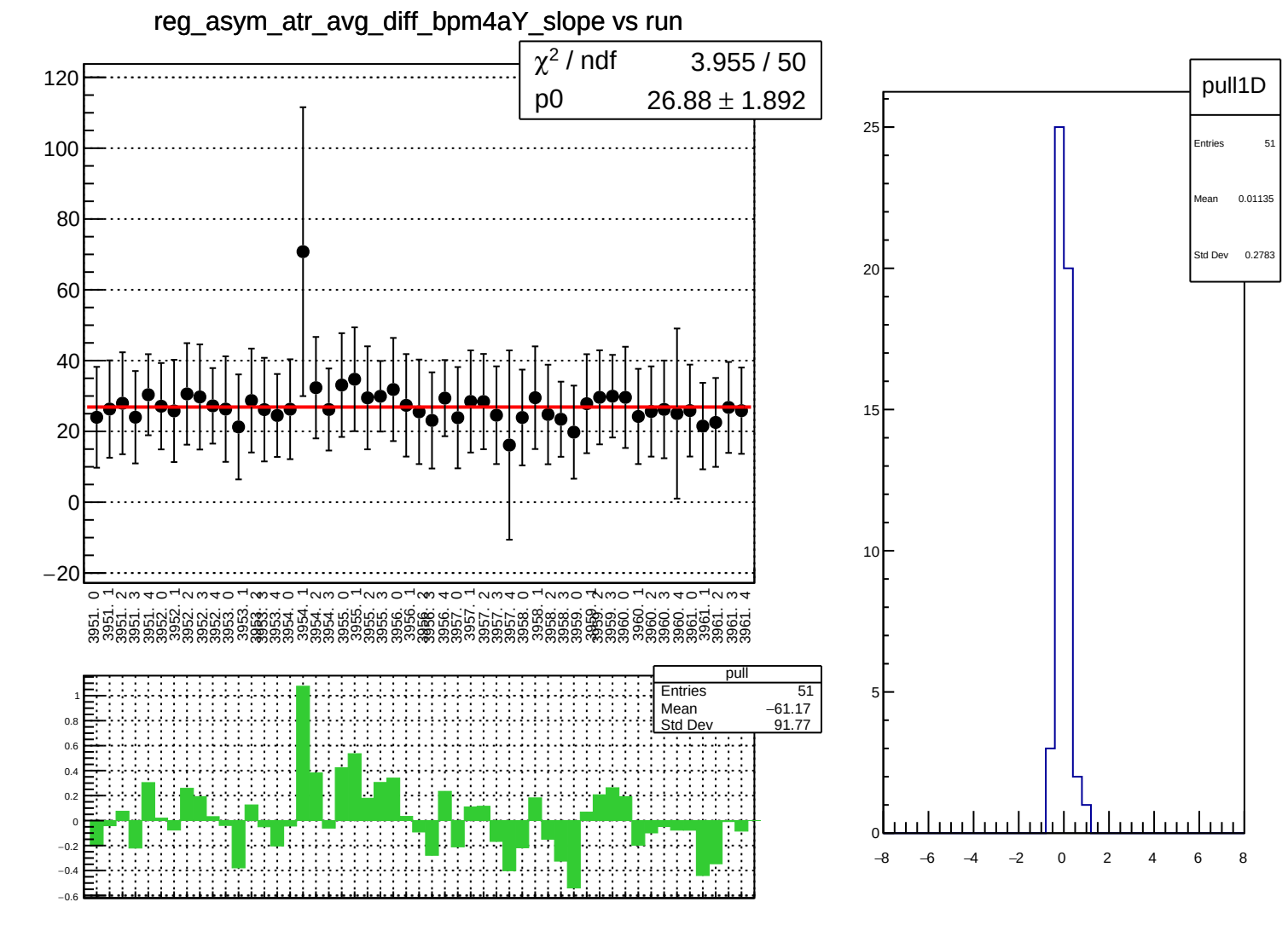

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 11.68 / 50
p0 −41.2 ± 2.802
150
100
50
0
−50
−100
pull
Entries 51
Mean 20.35
Std Dev 11.88
2
1.5
1
0.5
0
−0.5

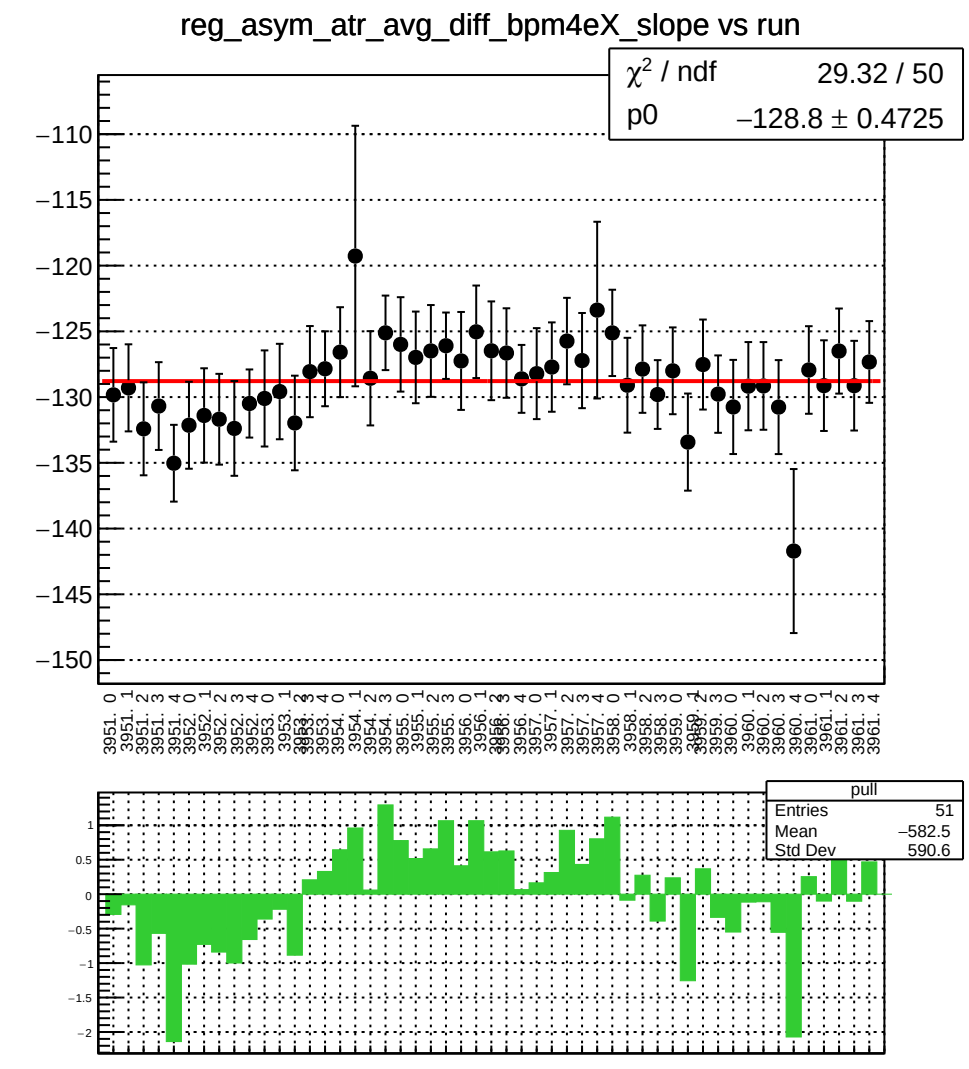

pull1D
Entries 51
Mean 0.05807
Std Dev 0.4751
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

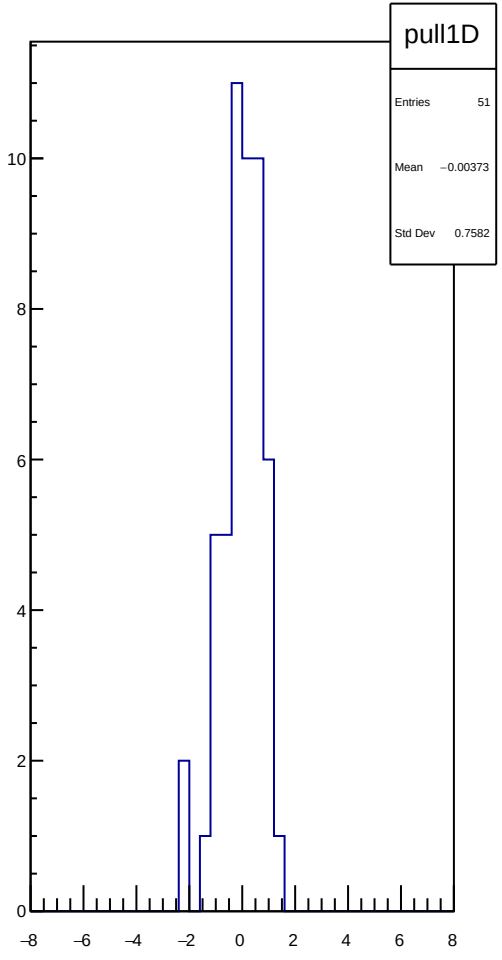

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 6.43 / 50
p0 205.8 ± 0.4313
pull
Entries 51
Mean −15.84
Std Dev 42.01
pull1D
Entries 51
Mean 0.03412
Std Dev 0.3534

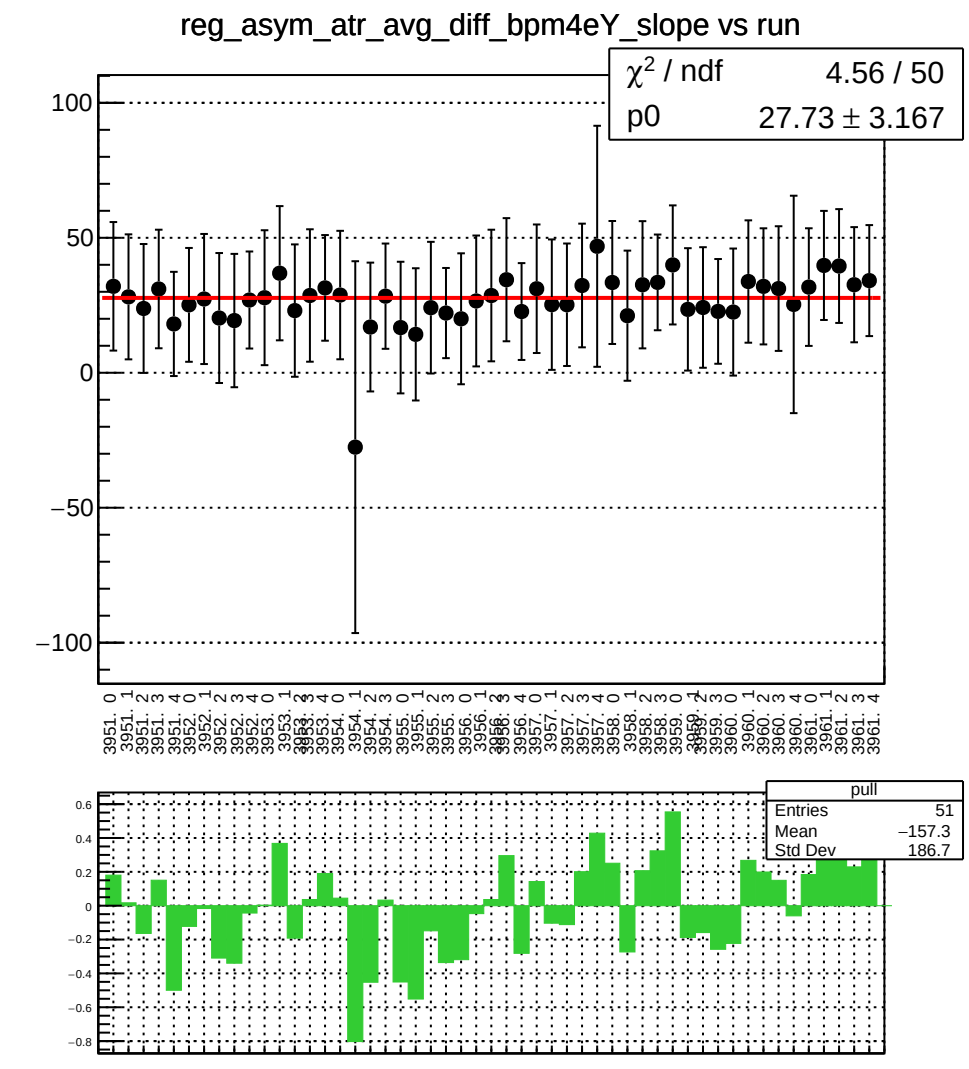

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.4 / 50
p0 −65.41 ± 2.766
pull
Entries 51
Mean 37.47
Std Dev 48.33

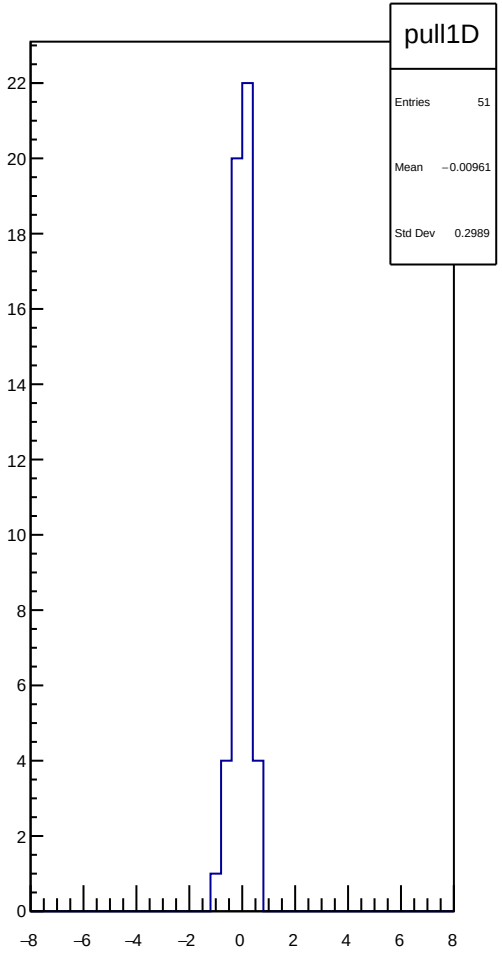

pull1D
Entries 51
Mean −0.01422
Std Dev 0.5123

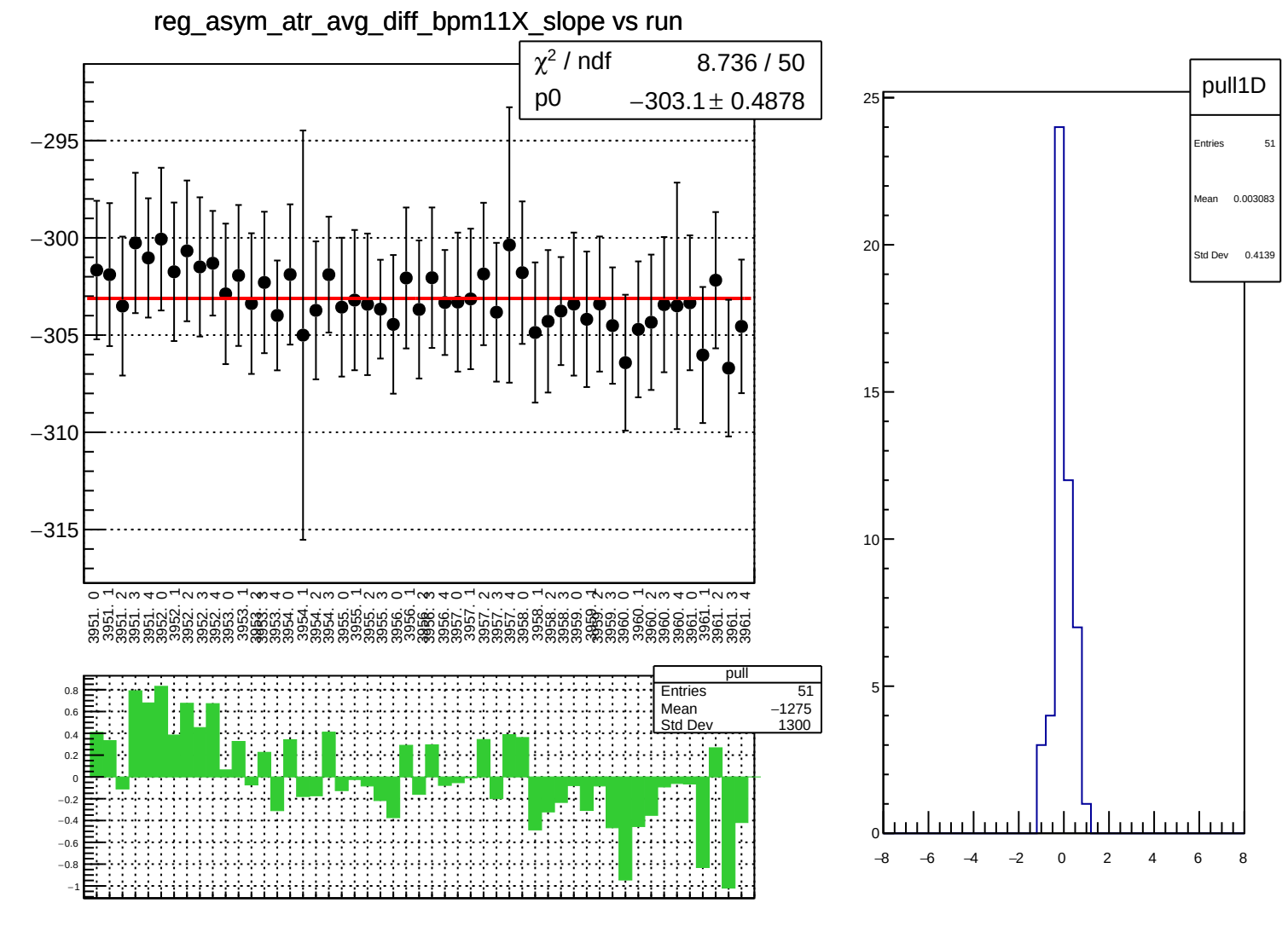

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.955 / 50
p0 26.88 ± 1.892
pull
Entries 51
Mean −61.17
Std Dev 91.77
pull1D
Entries 51
Mean 0.01135
Std Dev 0.2783

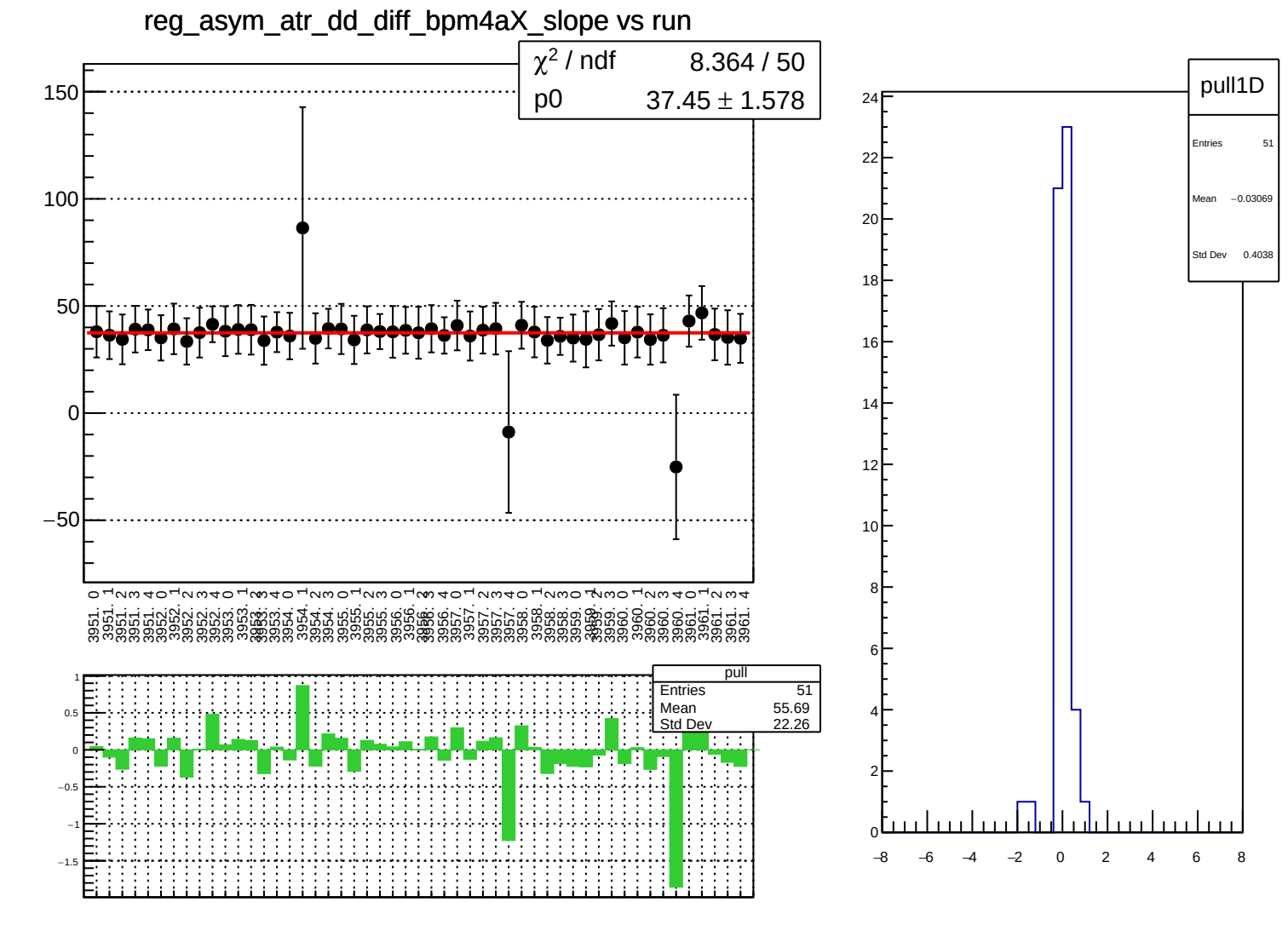

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.32 / 50
p0 −128.8 ± 0.4725
pull
Entries 51
Mean −582.5
Std Dev 590.6

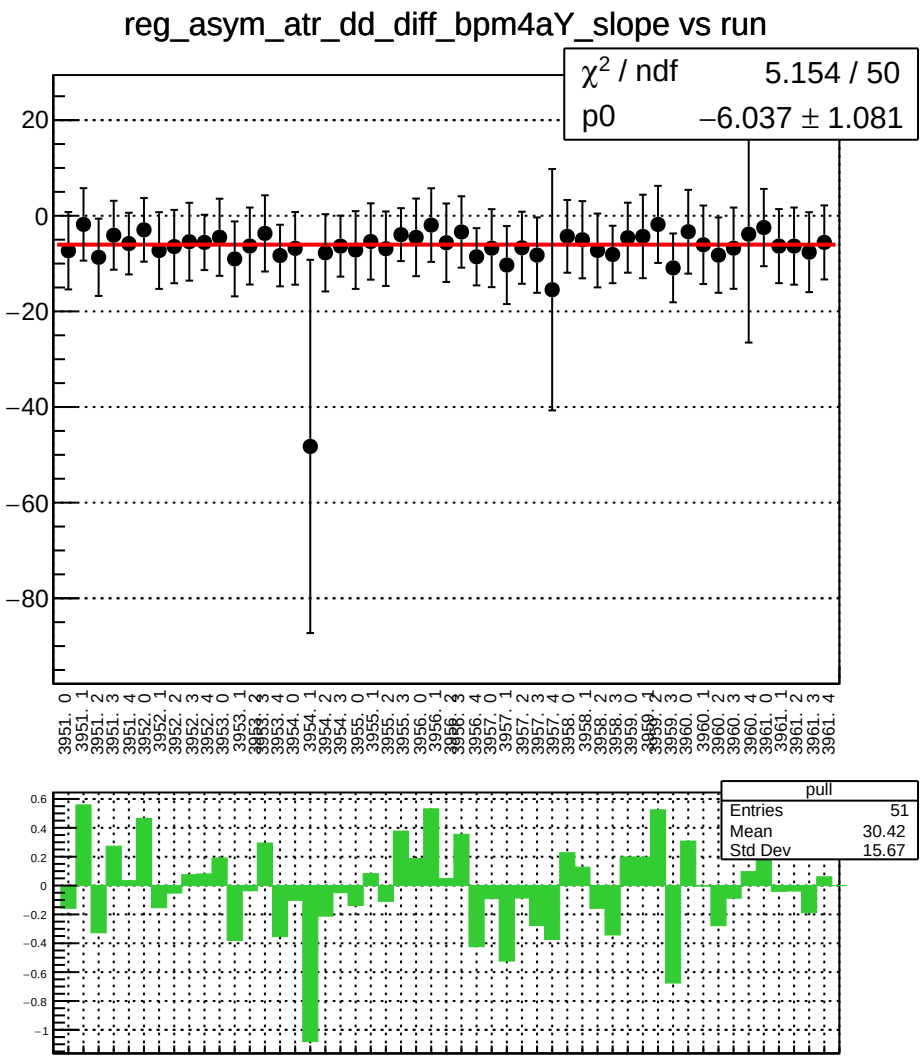

pull1D
Entries 51
Mean −0.00373
Std Dev 0.7582

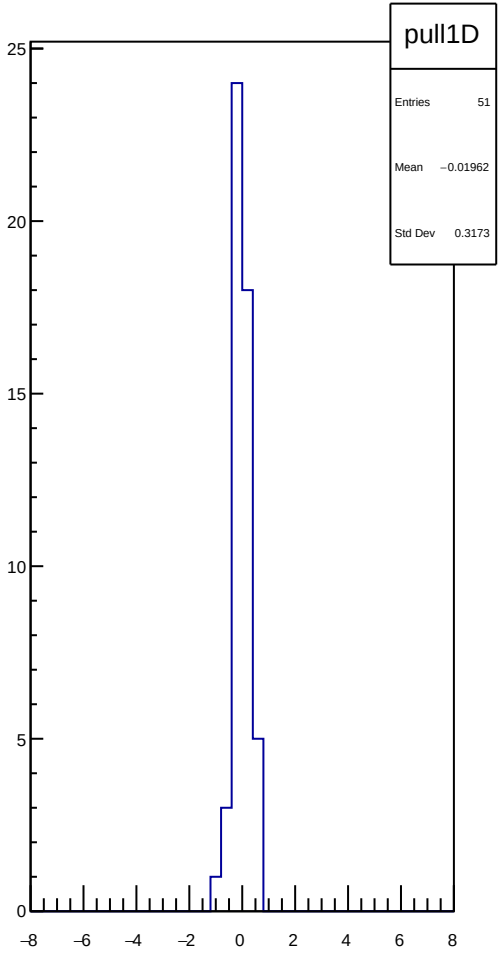

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.56 / 50
p0 27.73 ± 3.167
pull
Entries 51
Mean −157.3
Std Dev 186.7

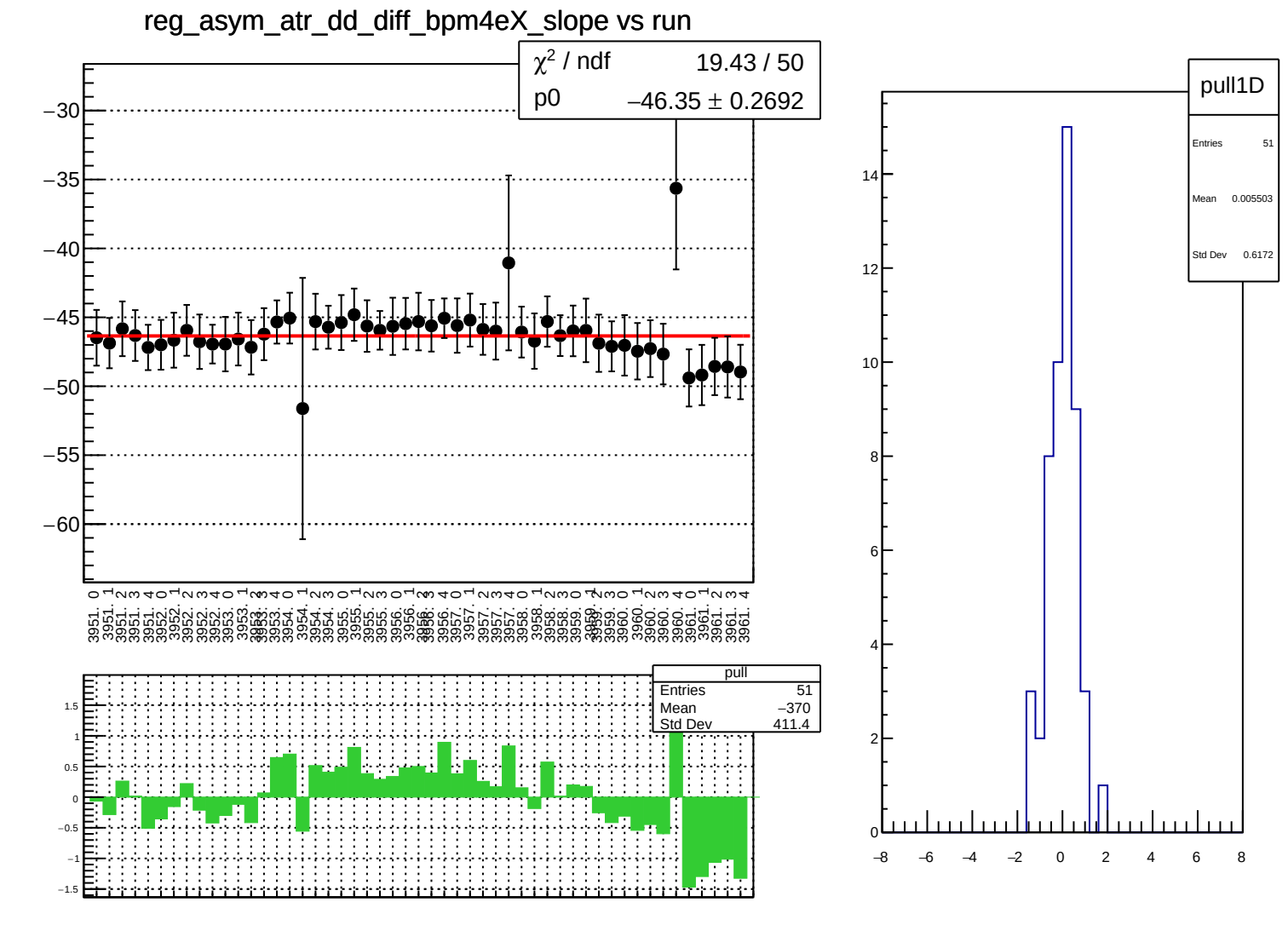

pull1D
Entries 51
Mean −0.00961
Std Dev 0.2989

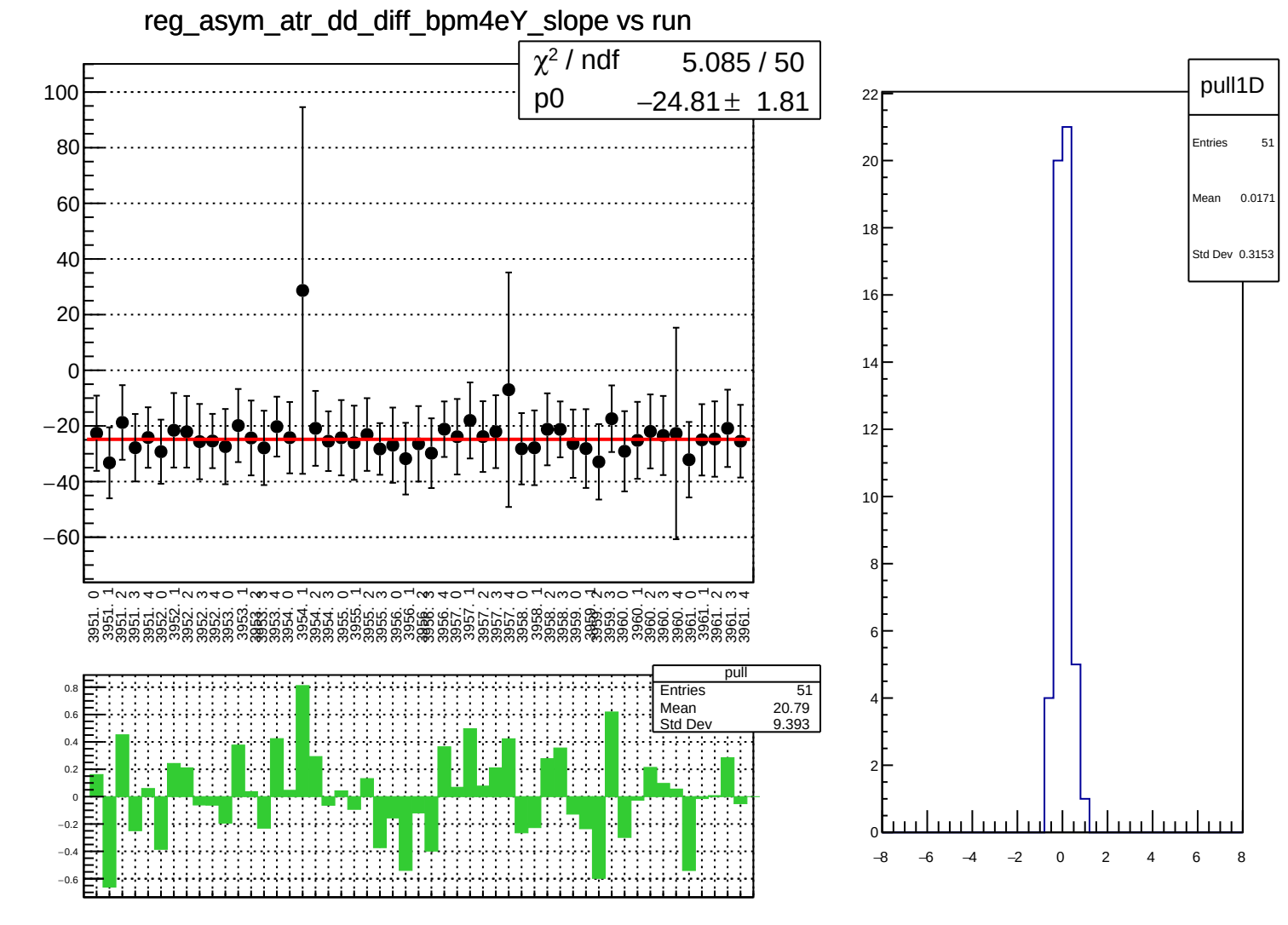

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 8.736 / 50
p0 −303.1 ± 0.4878
−295
−300
−305
−310
−315
pull
Entries 51
Mean −1275
Std Dev 1300
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 51
Mean 0.003083
Std Dev 0.4139
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

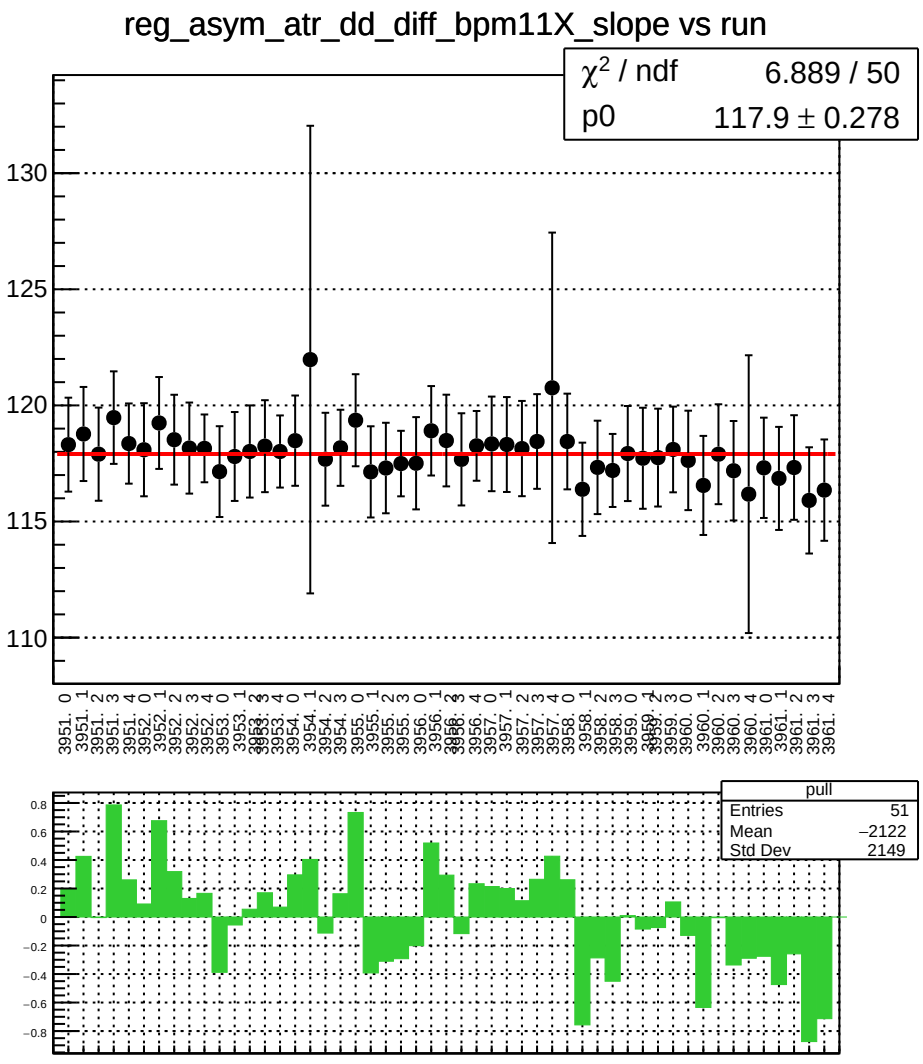

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.364 / 50
p0 37.45 ± 1.578
150
100
50
0
−50
pull
Entries 51
Mean 55.69
Std Dev 22.26
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean −0.03069
Std Dev 0.4038
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

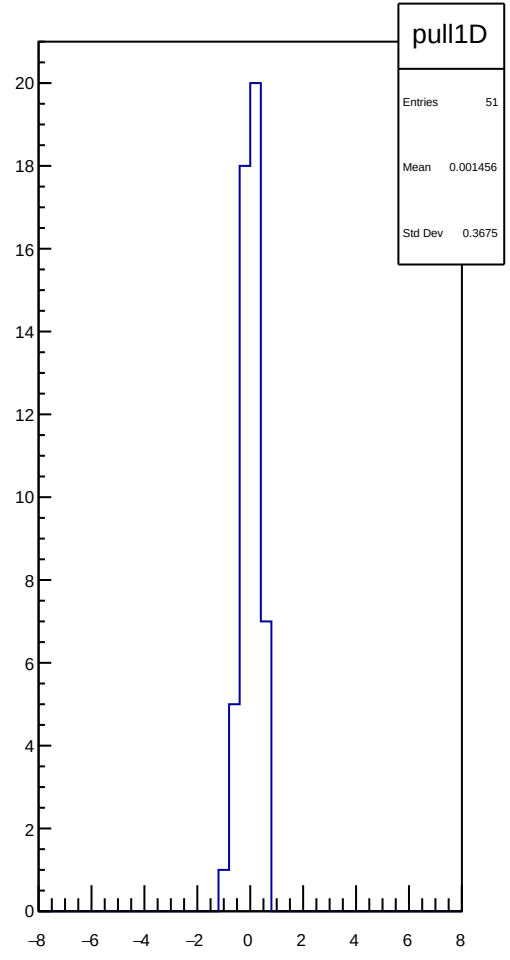

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.154 / 50
p0 −6.037 ± 1.081
pull
Entries 51
Mean 30.42
Std Dev 15.67

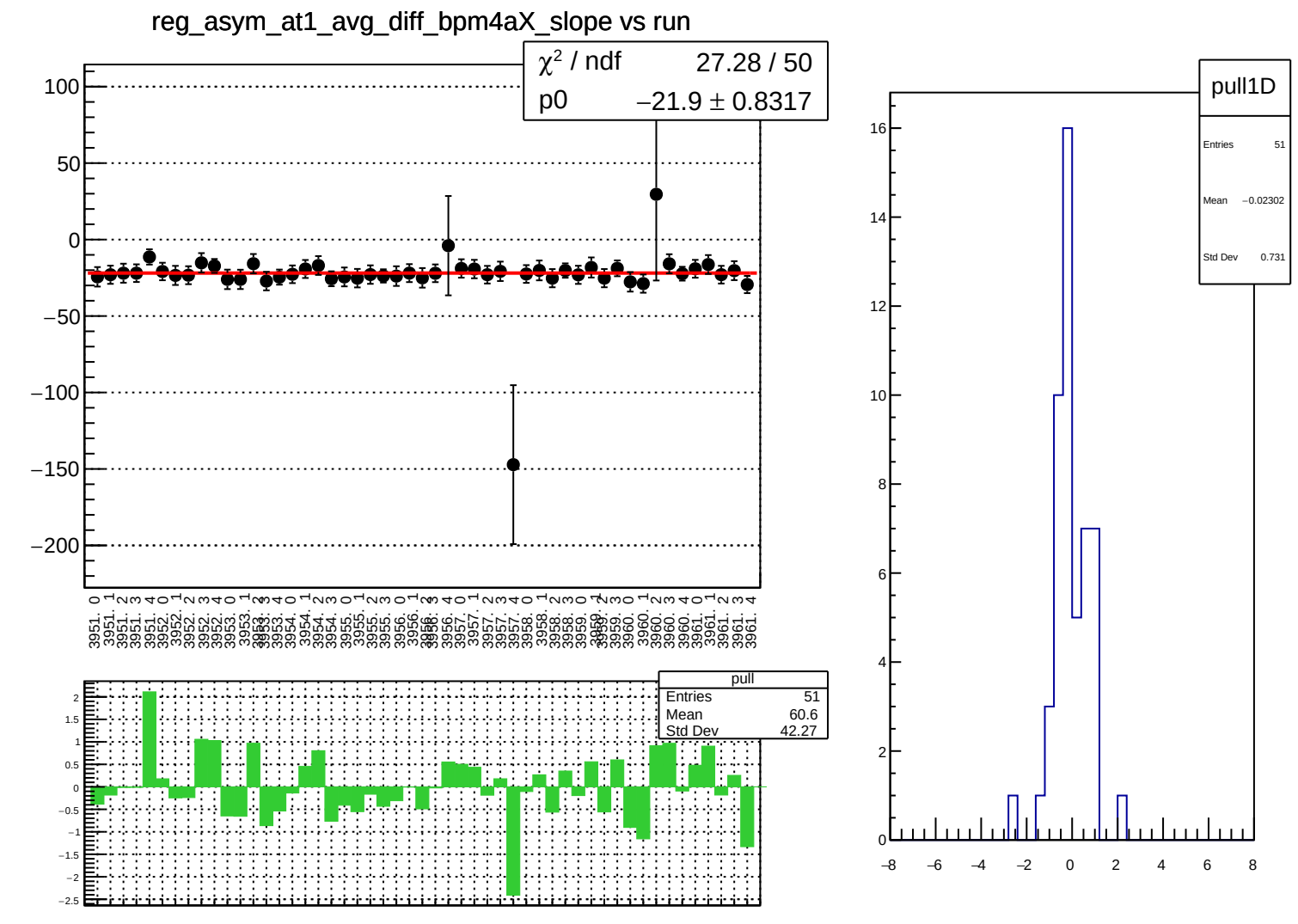

pull1D
Entries 51
Mean −0.01962
Std Dev 0.3173

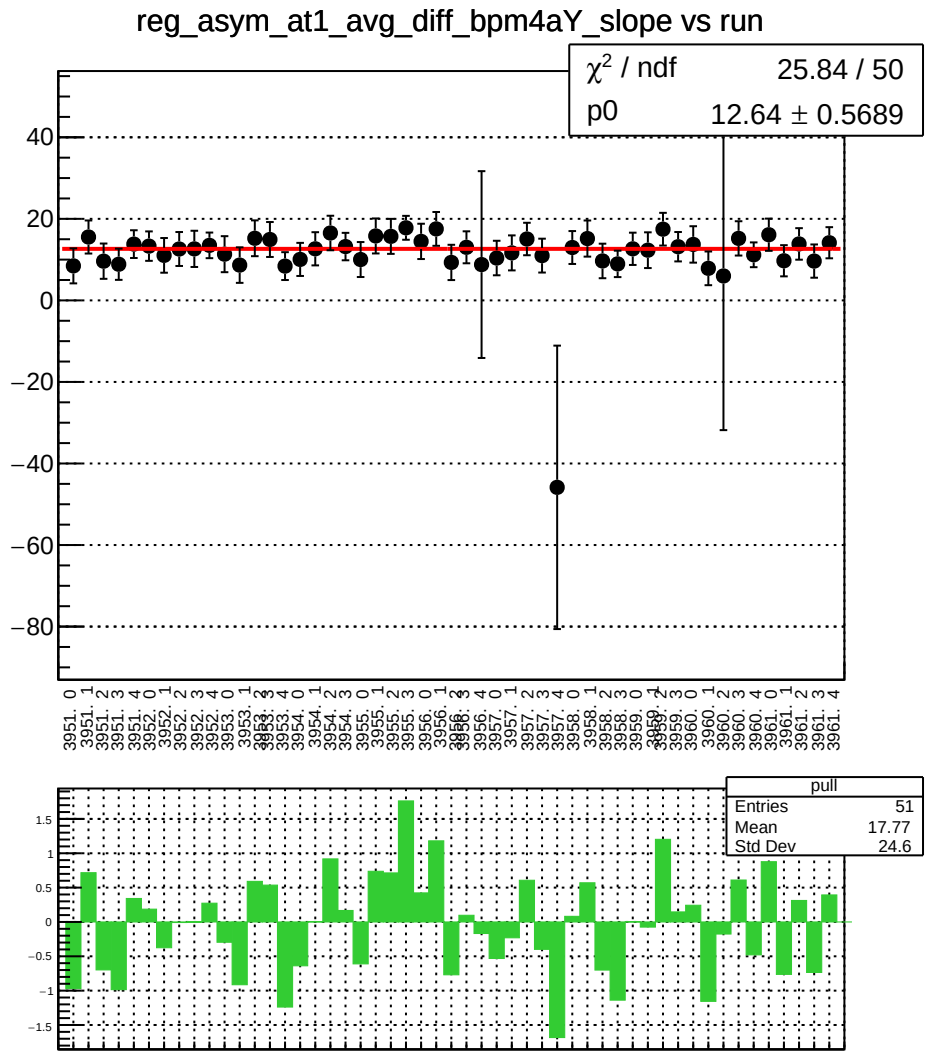

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.43 / 50
p0 −46.35 ± 0.2692
pull
Entries 51
Mean −370
Std Dev 411.4
pull1D
Entries 51
Mean 0.005503
Std Dev 0.6172

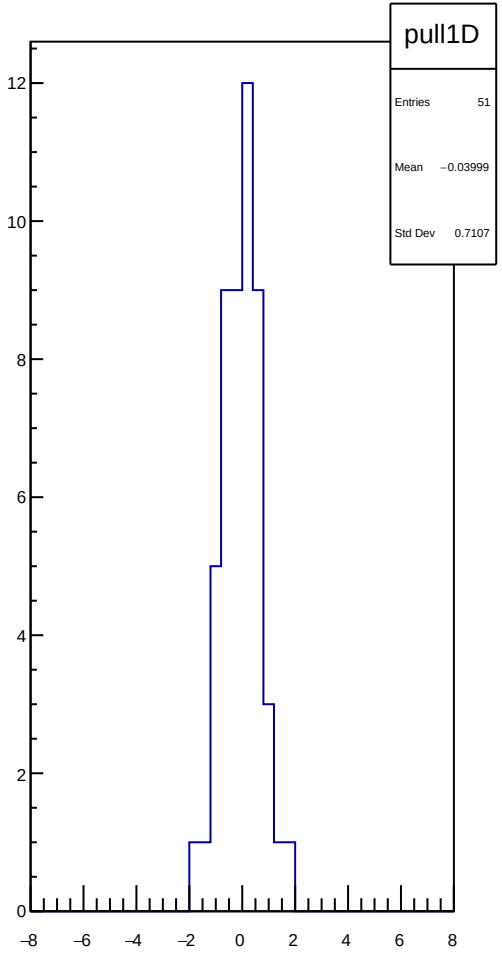

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.085 / 50
p0 −24.81 ± 1.81
pull
Entries 51
Mean 20.79
Std Dev 9.393
pull1D
Entries 51
Mean 0.0171
Std Dev 0.3153

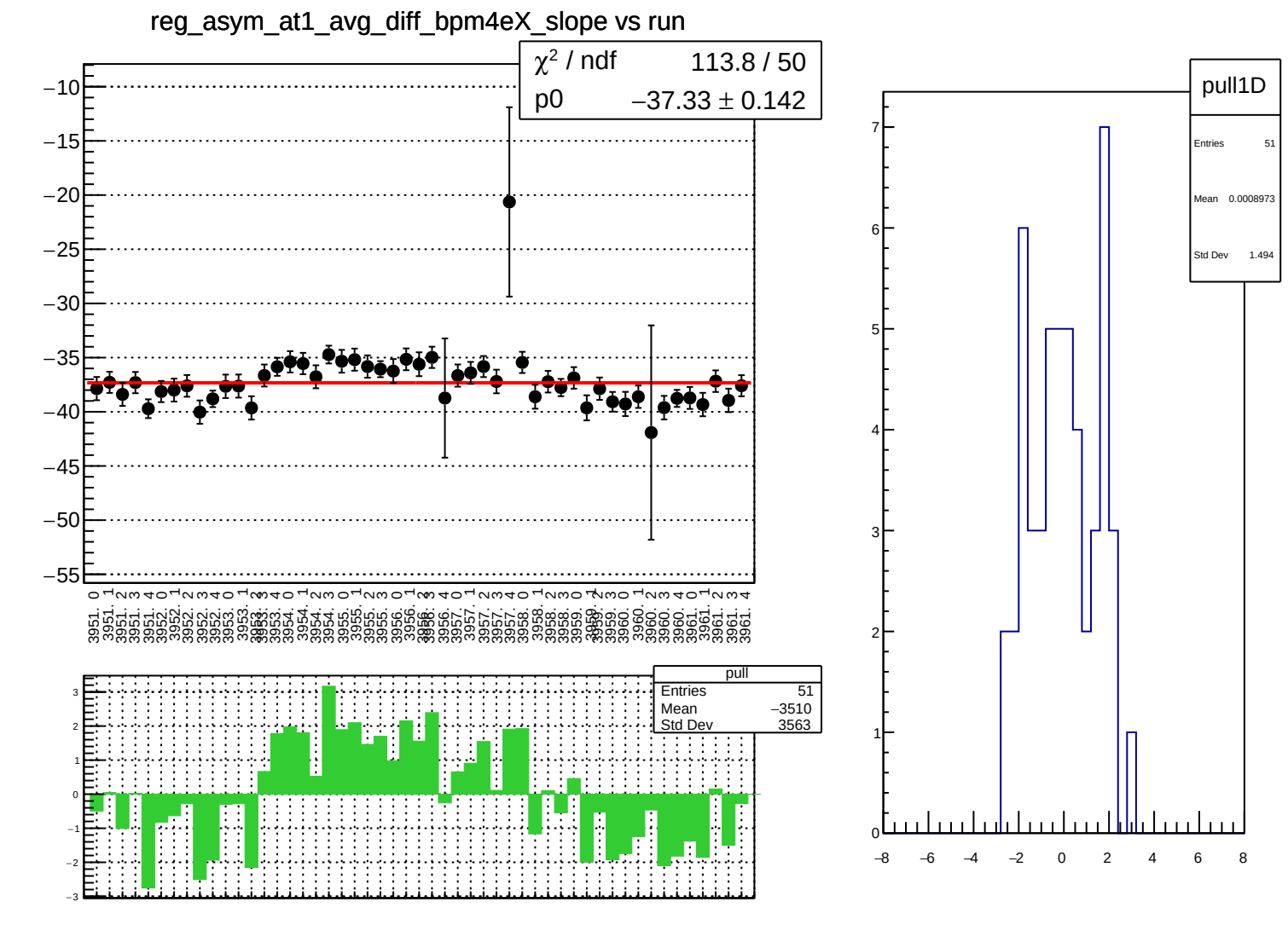

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 6.889 / 50
p0 117.9 ± 0.278
130
125
120
115
110
pull
Entries 51
Mean −2122
Std Dev 2149
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

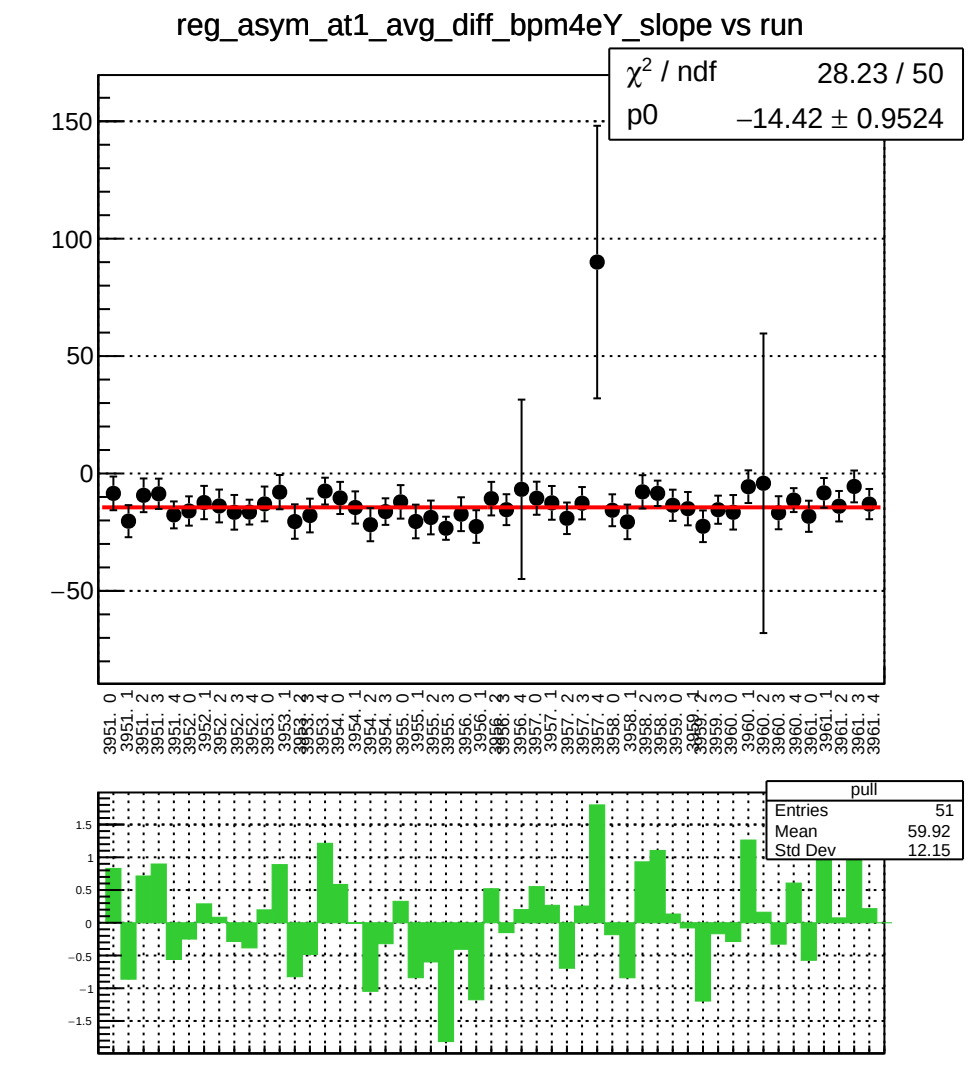

pull1D
Entries 51
Mean 0.001456
Std Dev 0.3675
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

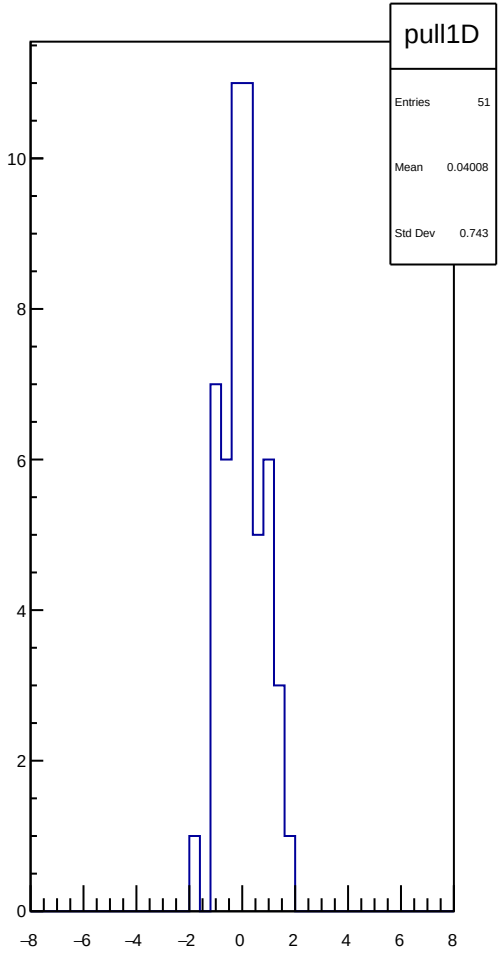

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.28 / 50
p0 −21.9 ± 0.8317
pull
Entries 51
Mean 60.6
Std Dev 42.27
pull1D
Entries 51
Mean −0.02302
Std Dev 0.731

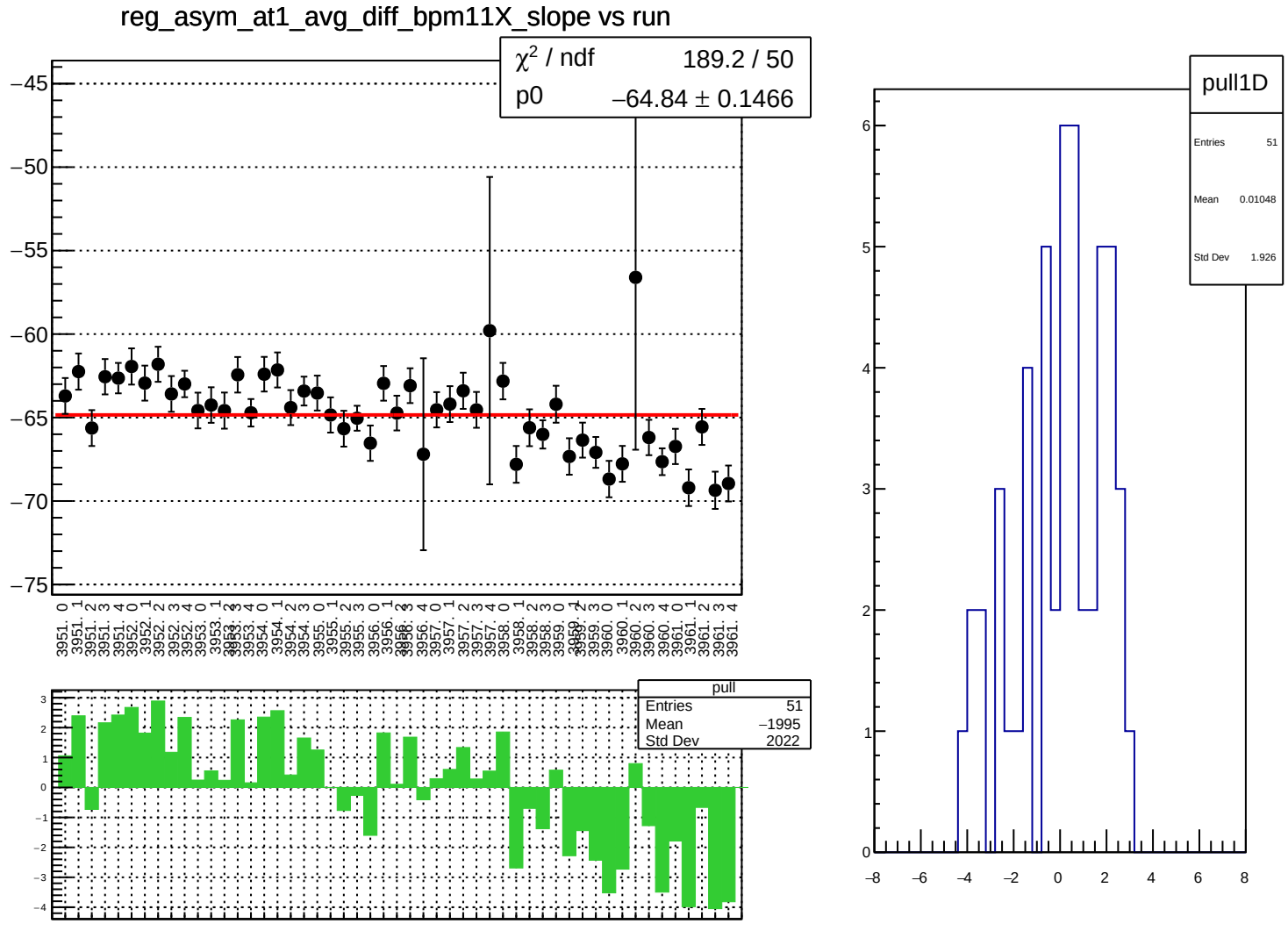

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.84 / 50
p0 12.64 ± 0.5689
pull
Entries 51
Mean 17.77
Std Dev 24.6

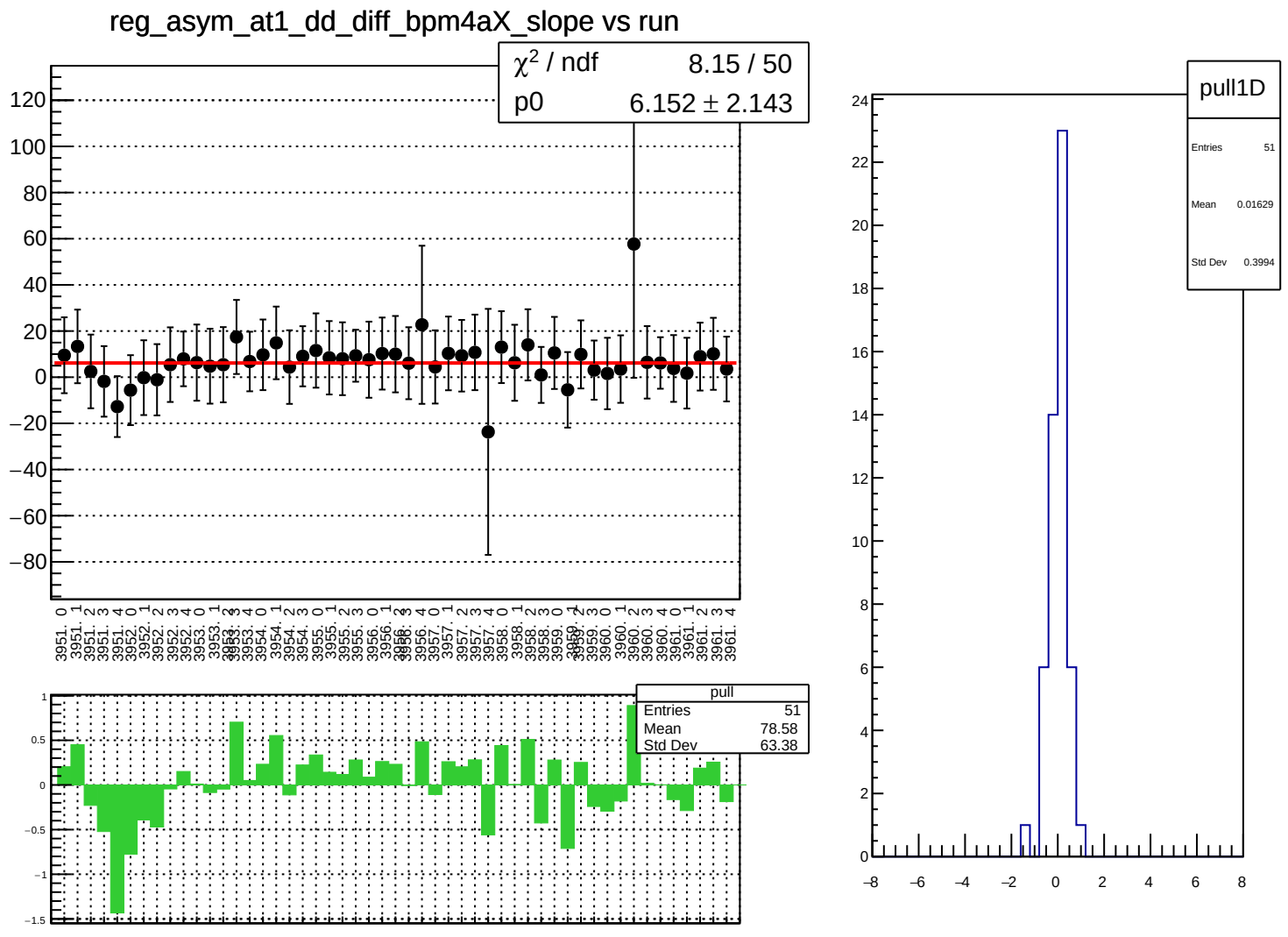

pull1D
Entries 51
Mean −0.03999
Std Dev 0.7107

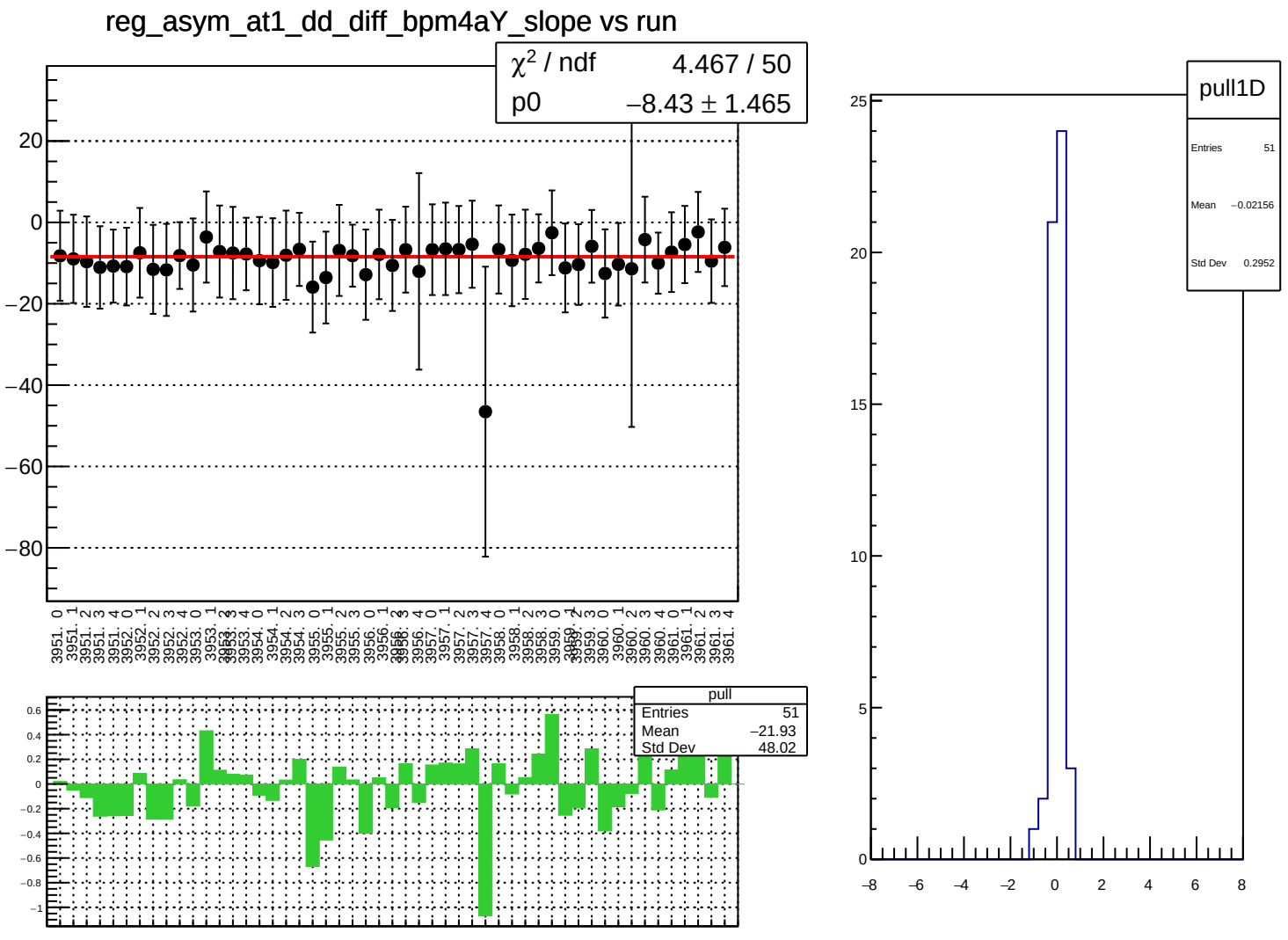

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 113.8 / 50
p0 −37.33 ± 0.142
pull
Entries 51
Mean −3510
Std Dev 3563
pull1D
Entries 51
Mean 0.0008973
Std Dev 1.494

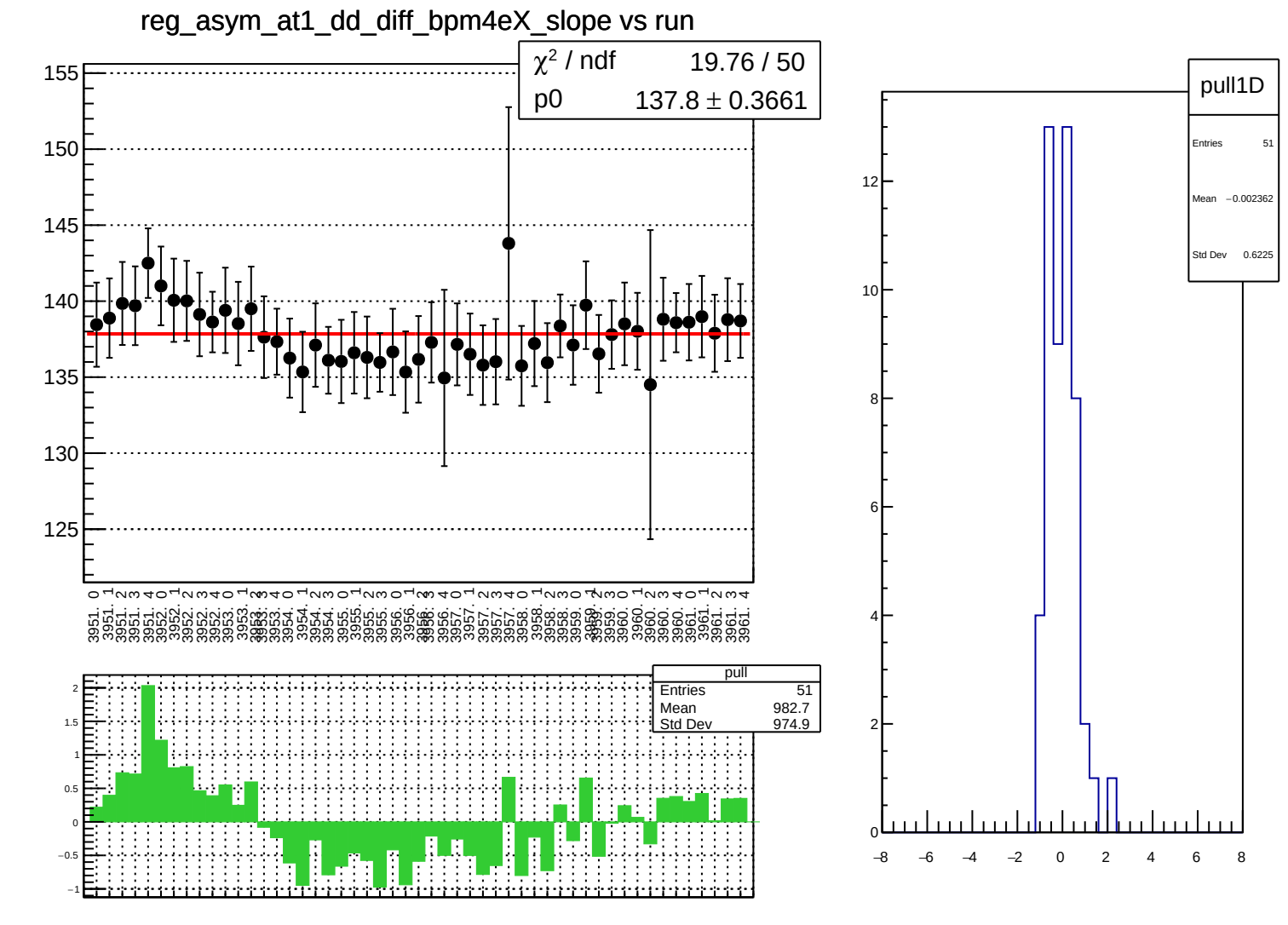

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.23 / 50
p0 −14.42 ± 0.9524
150
100
50
0
−50
pull
Entries 51
Mean 59.92
Std Dev 12.15
1.5
1
0.5
0
−0.5
−1
−1.5

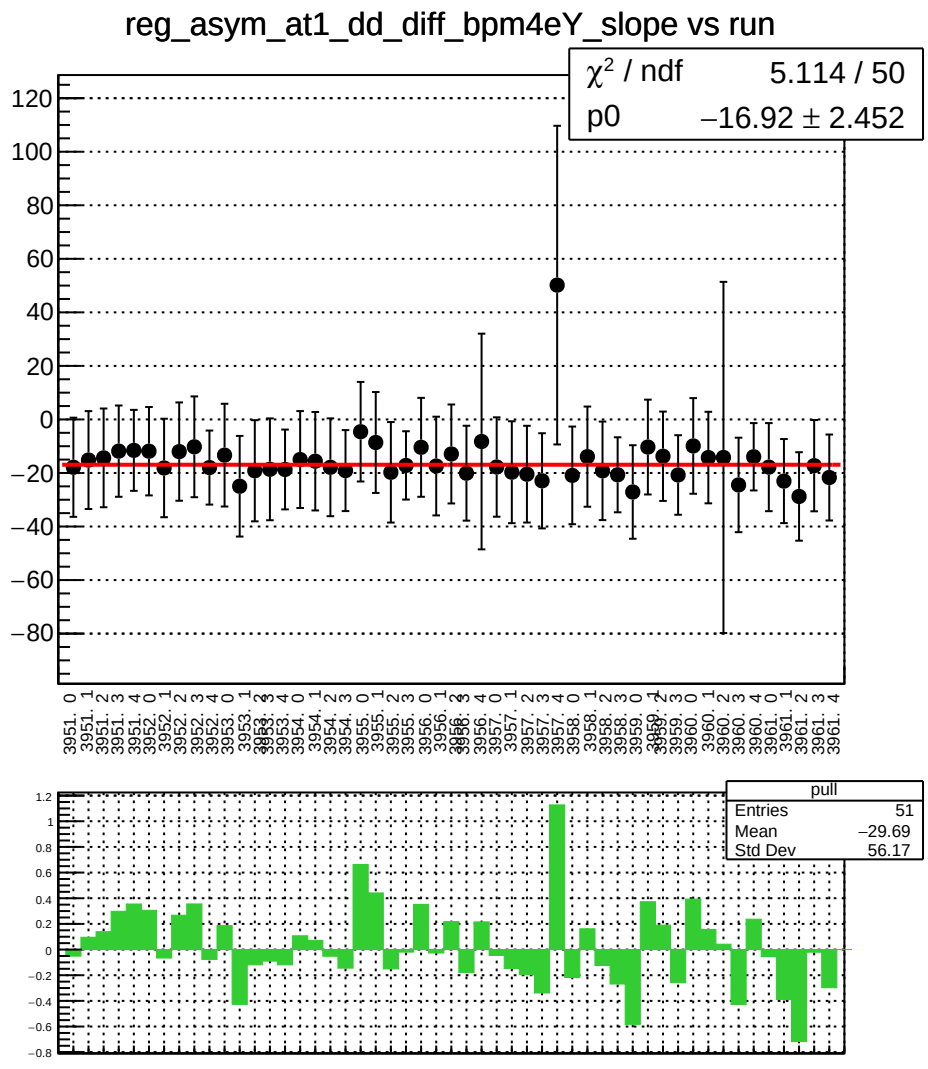

pull1D
Entries 51
Mean 0.04008
Std Dev 0.743
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

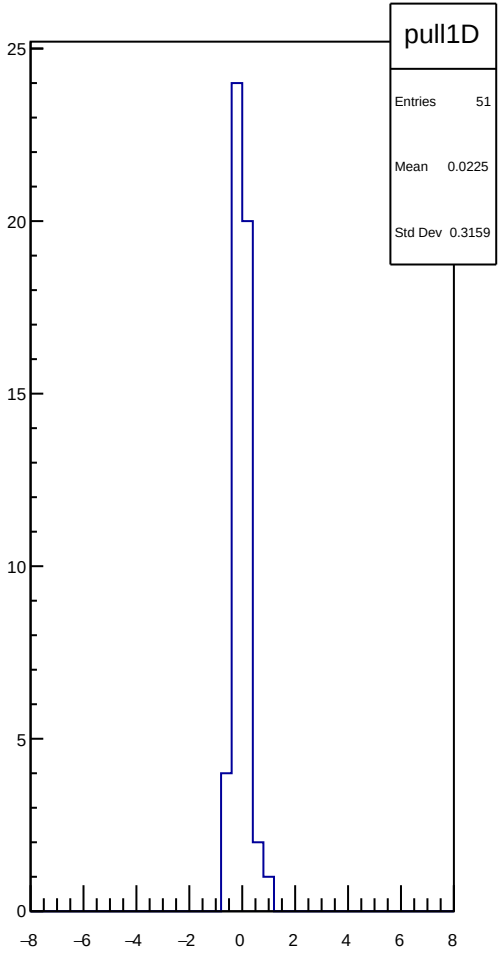

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 189.2 / 50
p0 −64.84 ± 0.1466
pull
Entries 51
Mean −1995
Std Dev 2022
pull1D
Entries 51
Mean 0.01048
Std Dev 1.926

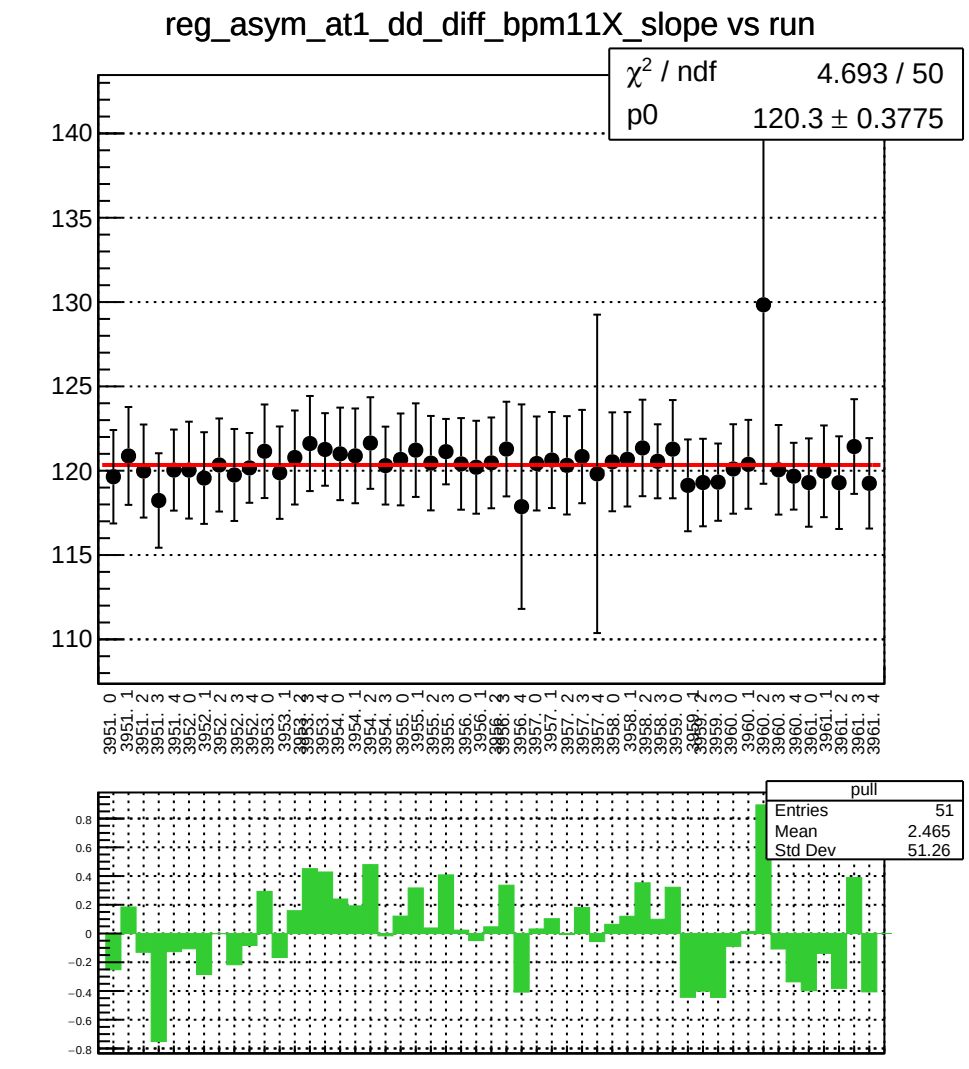

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.15 / 50
p0 6.152 ± 2.143
pull
Entries 51
Mean 78.58
Std Dev 63.38
pull1D
Entries 51
Mean 0.01629
Std Dev 0.3994

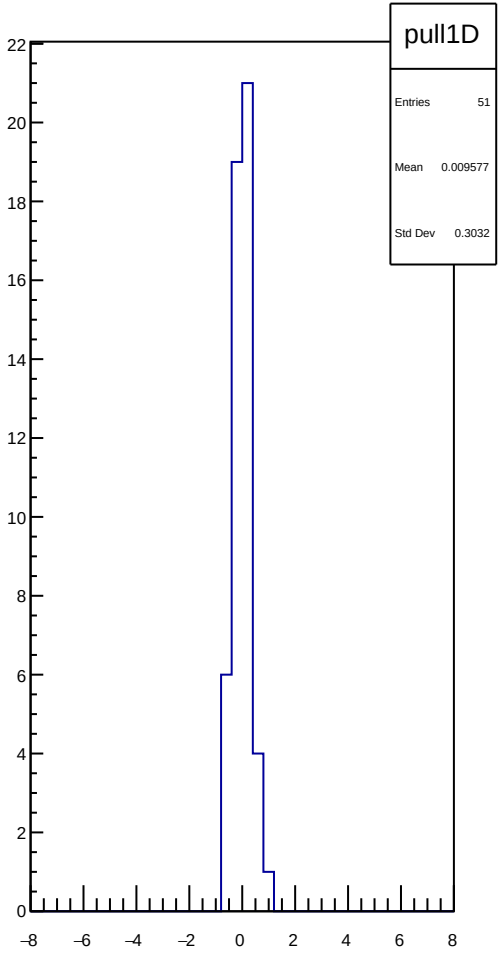

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.467 / 50
p0 −8.43 ± 1.465
pull
Entries 51
Mean −21.93
Std Dev 48.02
pull1D
Entries 51
Mean −0.02156
Std Dev 0.2952

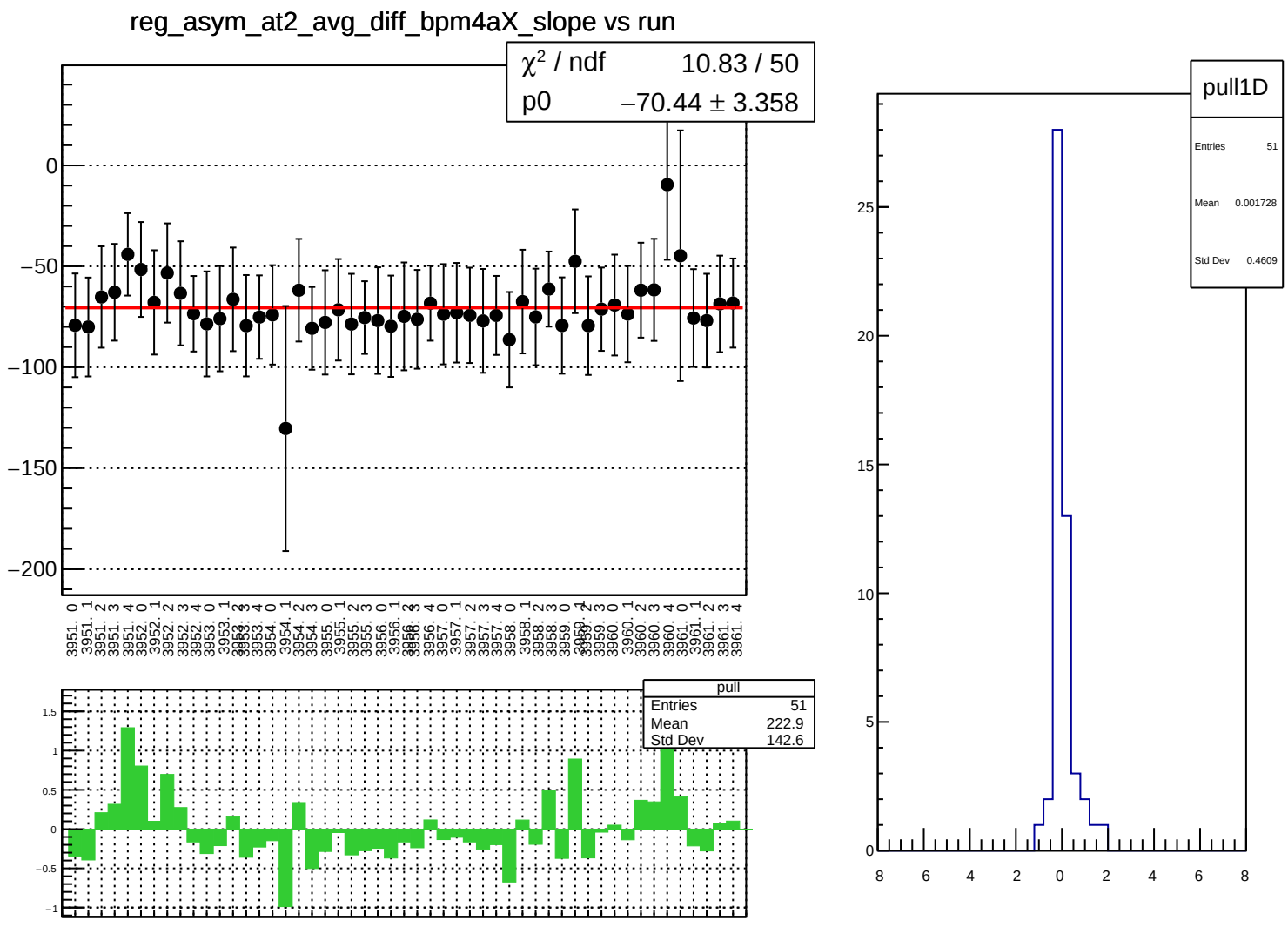

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.76 / 50
p0 137.8 ± 0.3661
pull
Entries 51
Mean 982.7
Std Dev 974.9
pull1D
Entries 51
Mean −0.002362
Std Dev 0.6225

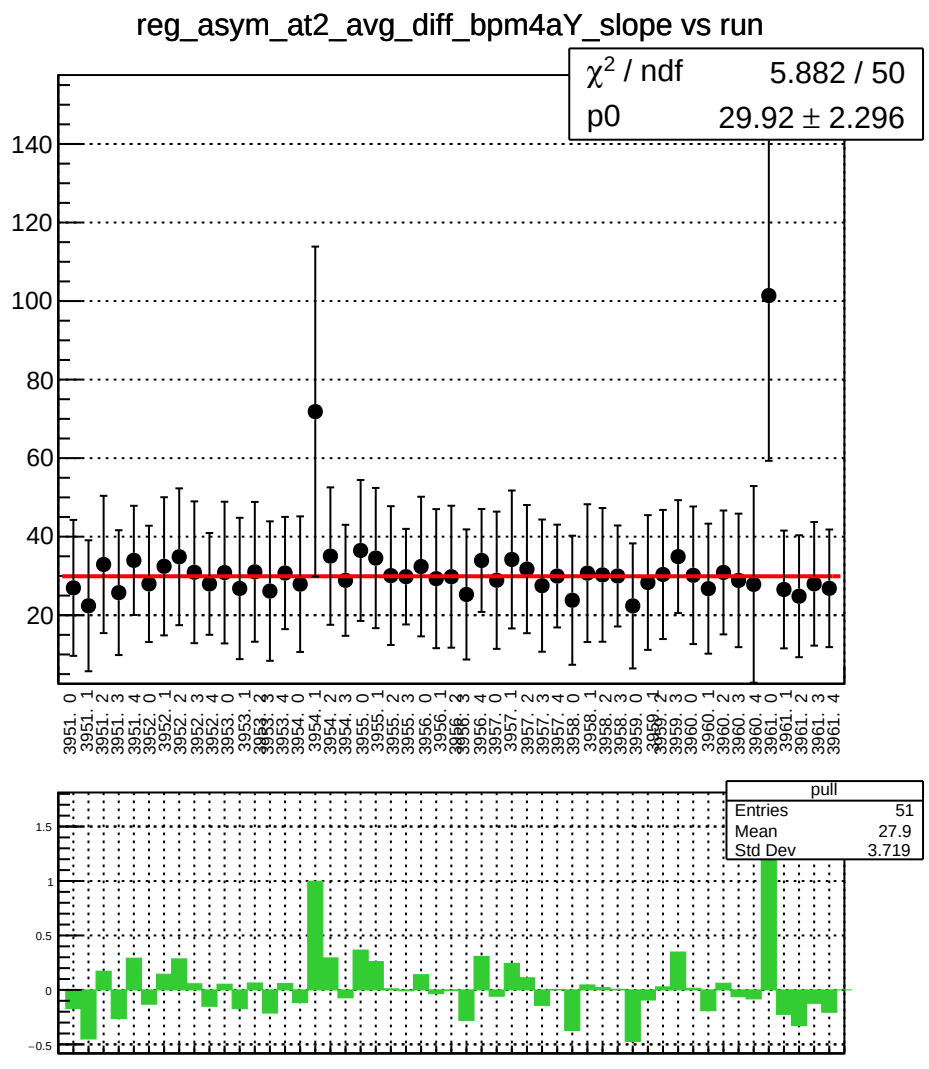

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.114 / 50
p0 −16.92 ± 2.452
pull
Entries 51
Mean −29.69
Std Dev 56.17

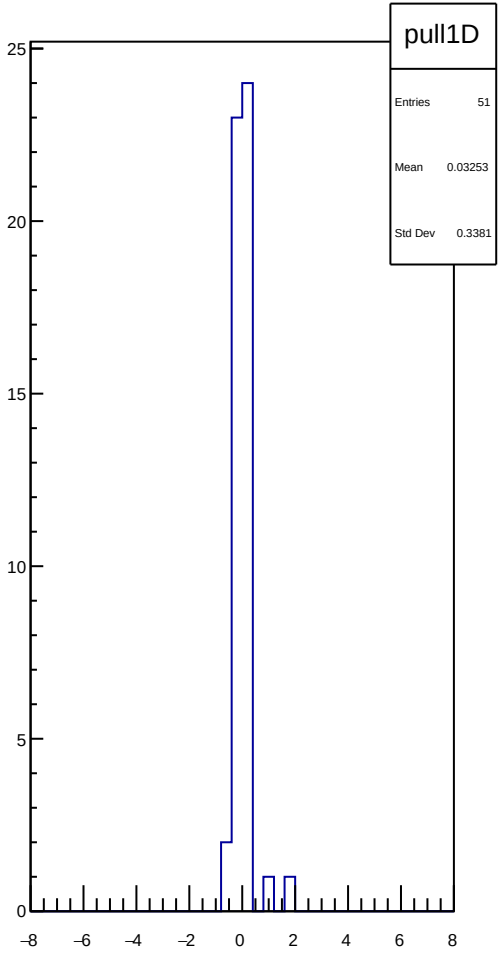

pull1D
Entries 51
Mean 0.0225
Std Dev 0.3159

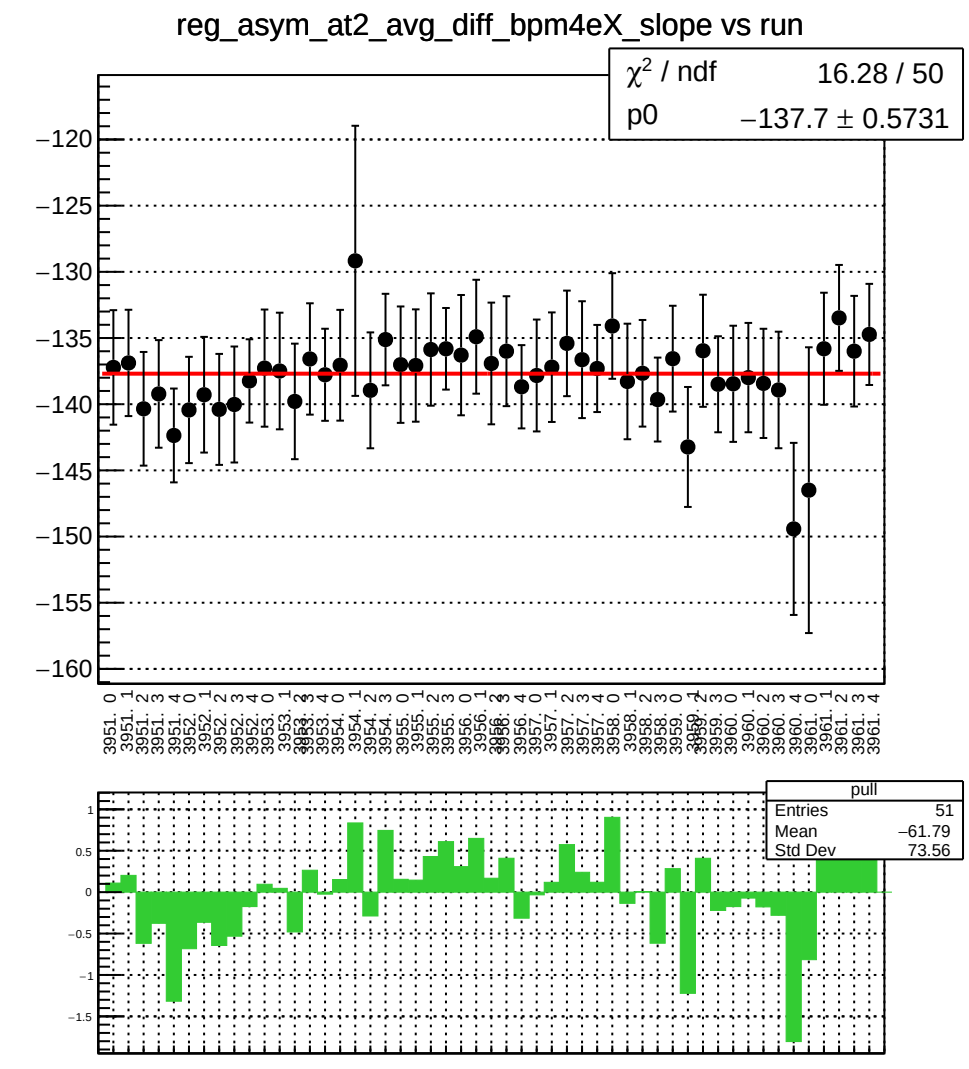

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 4.693 / 50
p0 120.3 ± 0.3775
pull
Entries 51
Mean 2.465
Std Dev 51.26

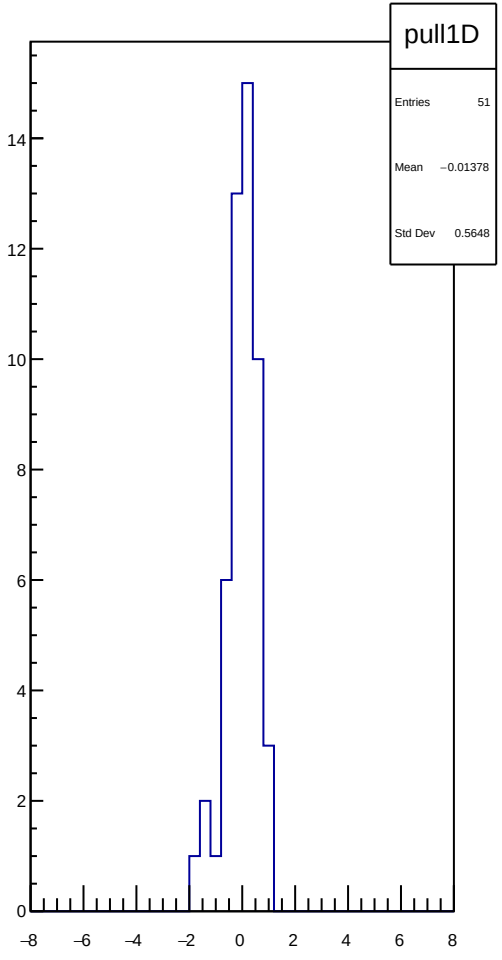

pull1D
Entries 51
Mean 0.009577
Std Dev 0.3032

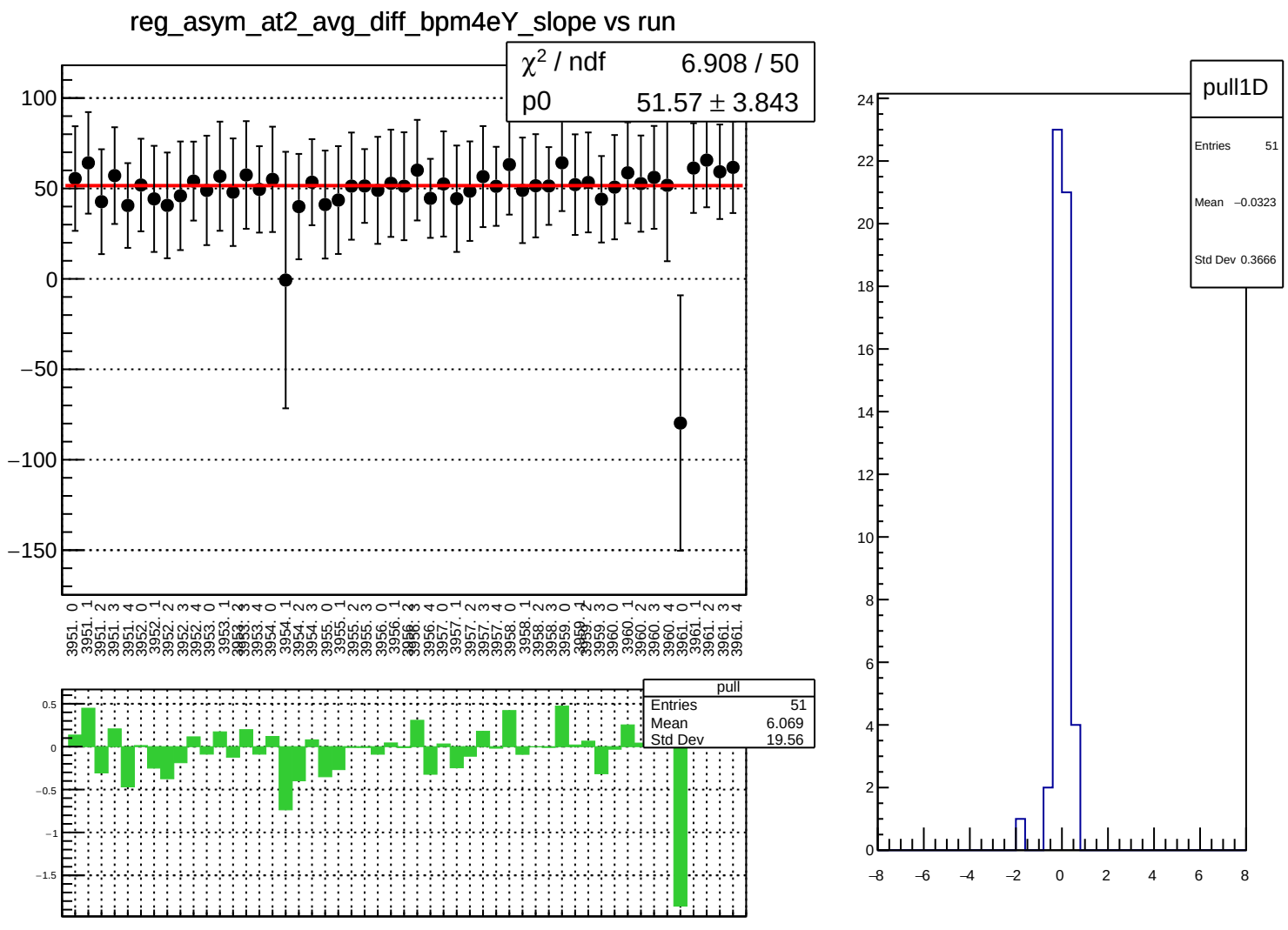

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.83 / 50
p0 −70.44 ± 3.358
pull
Entries 51
Mean 222.9
Std Dev 142.6
pull1D
Entries 51
Mean 0.001728
Std Dev 0.4609

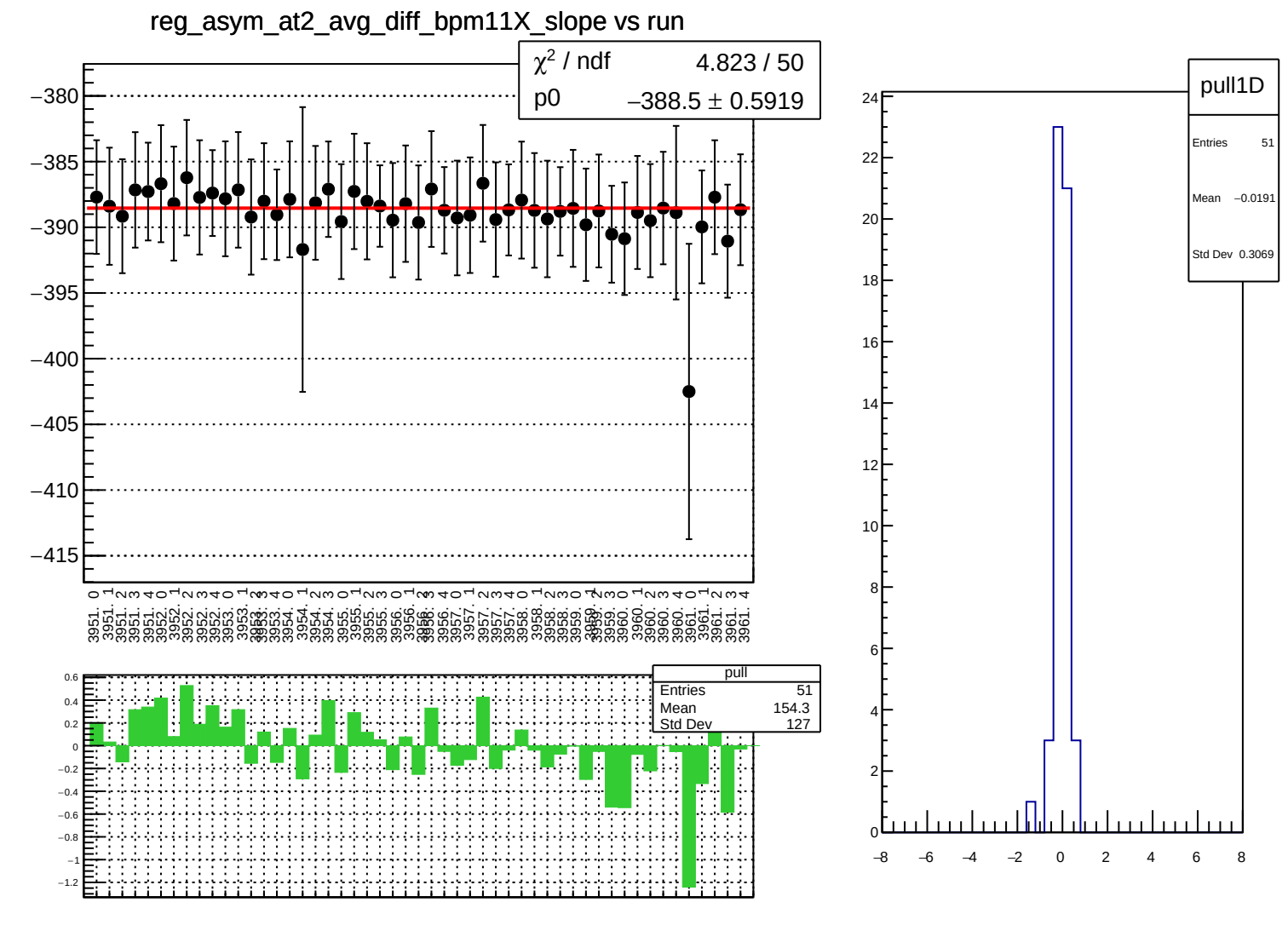

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.882 / 50
p0 29.92 ± 2.296
pull
Entries 51
Mean 27.9
Std Dev 3.719

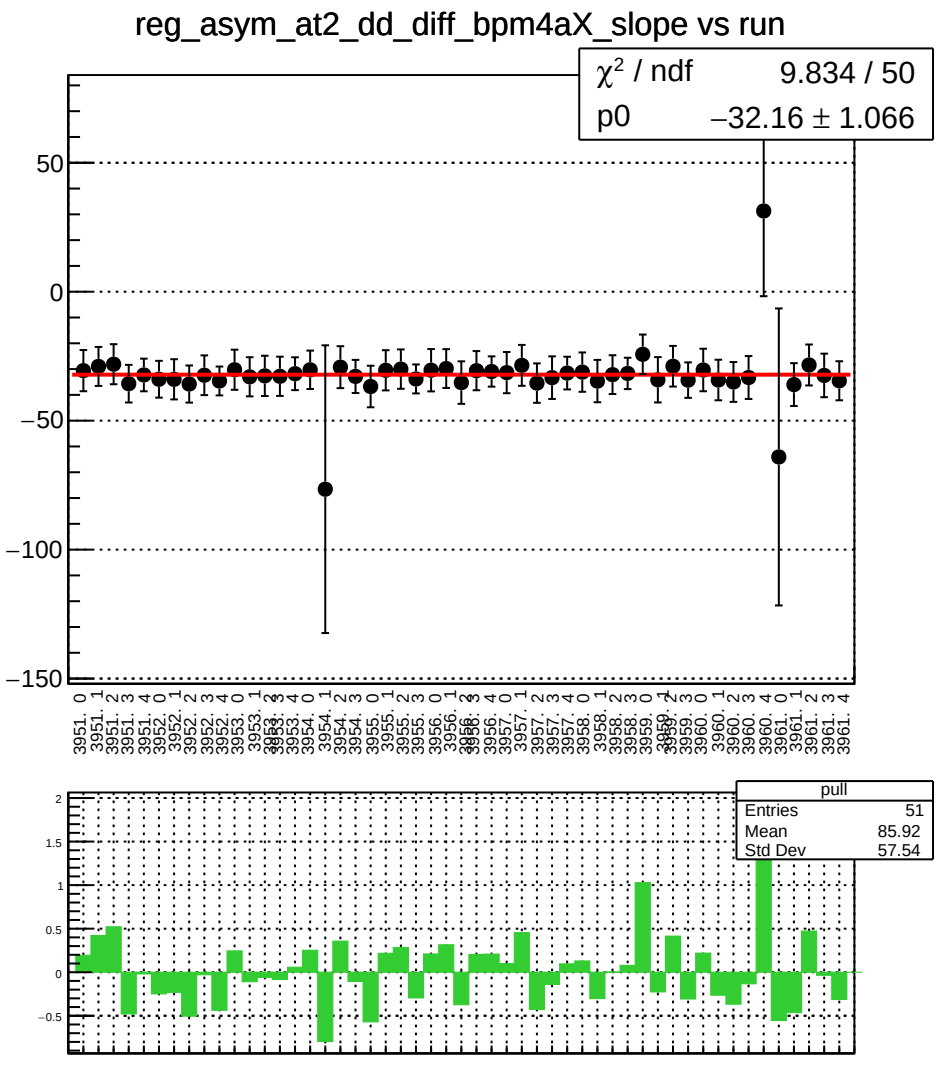

pull1D
Entries 51
Mean 0.03253
Std Dev 0.3381

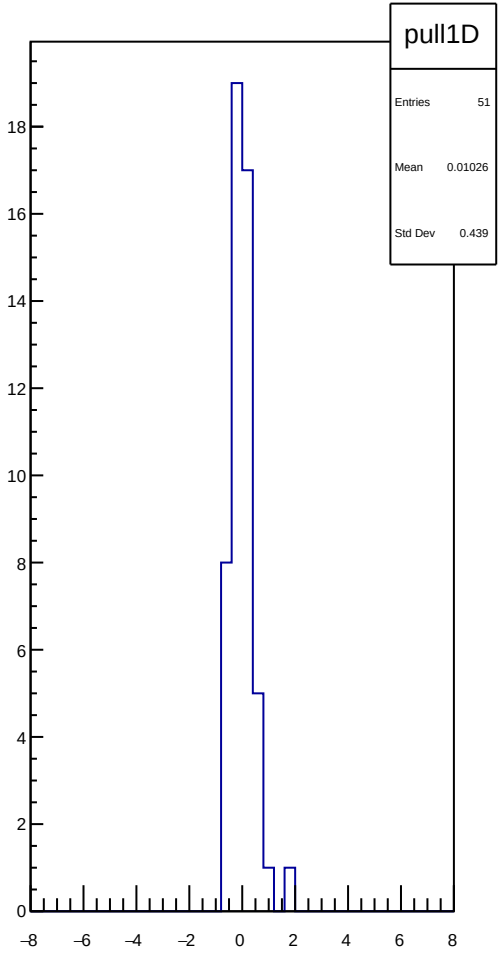

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.28 / 50
p0 −137.7 ± 0.5731
pull
Entries 51
Mean −61.79
Std Dev 73.56

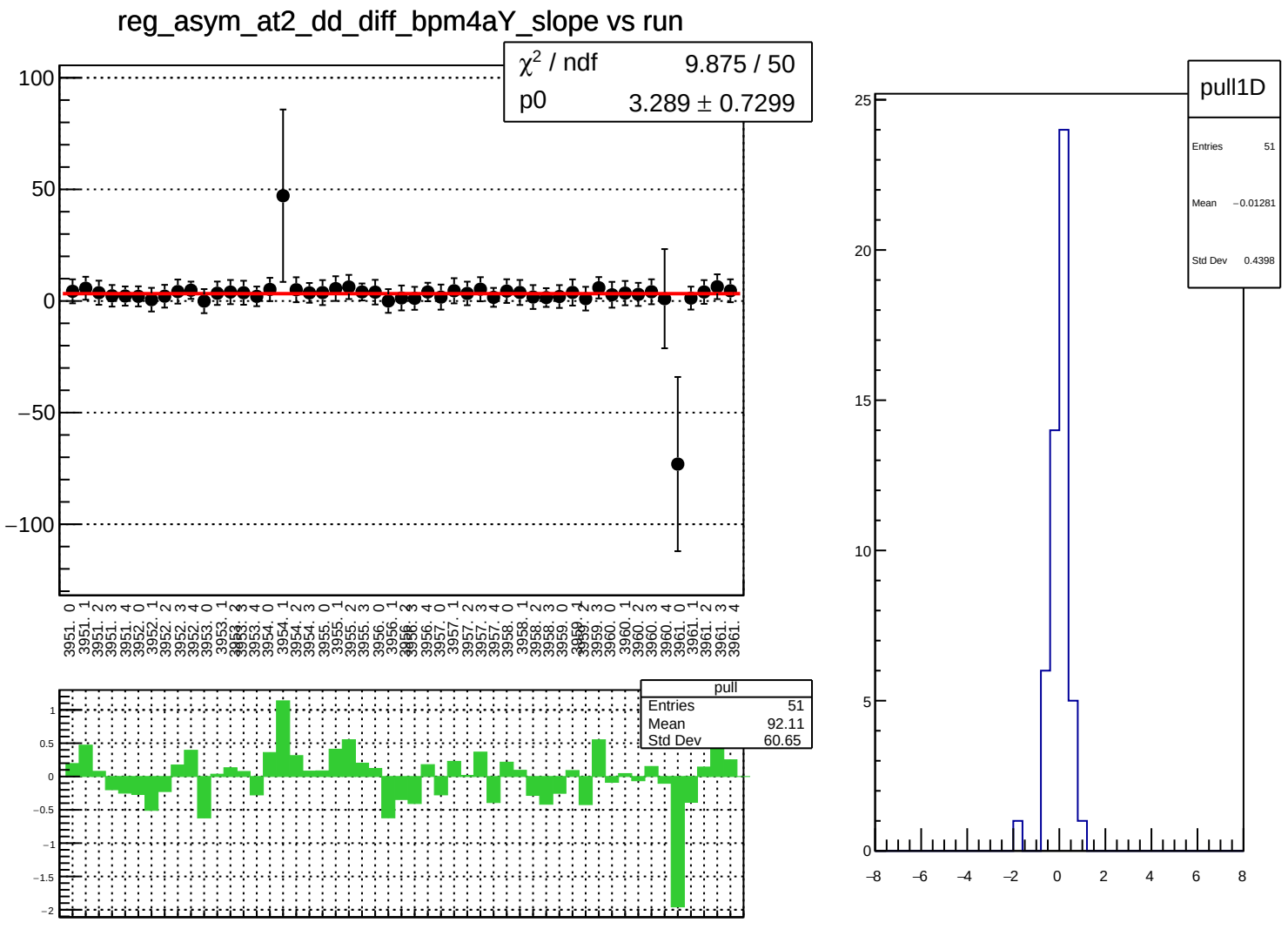

pull1D
Entries 51
Mean −0.01378
Std Dev 0.5648

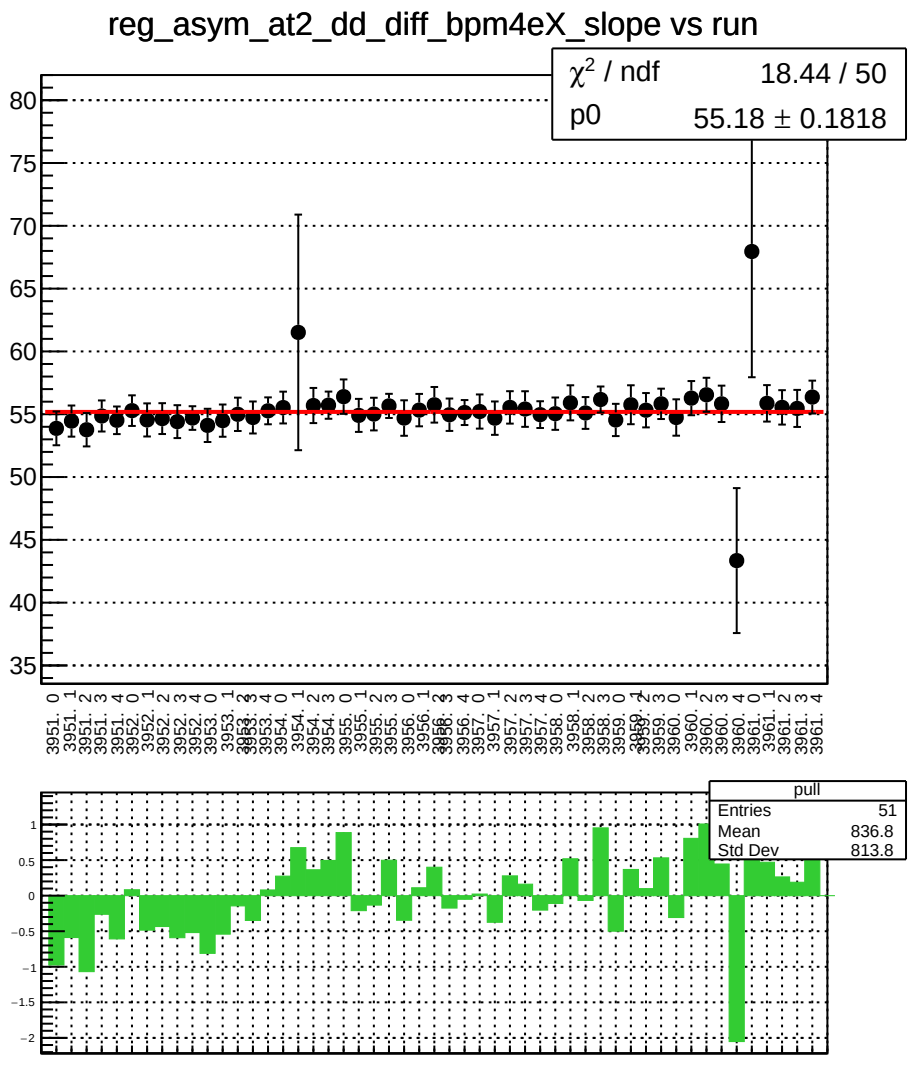

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.908 / 50
p0 51.57 ± 3.843
100
50
0
−50
−100
−150
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3954. 4
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4
pull
Entries 51
Mean 6.069
Std Dev 19.56
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean −0.0323
Std Dev 0.3666
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

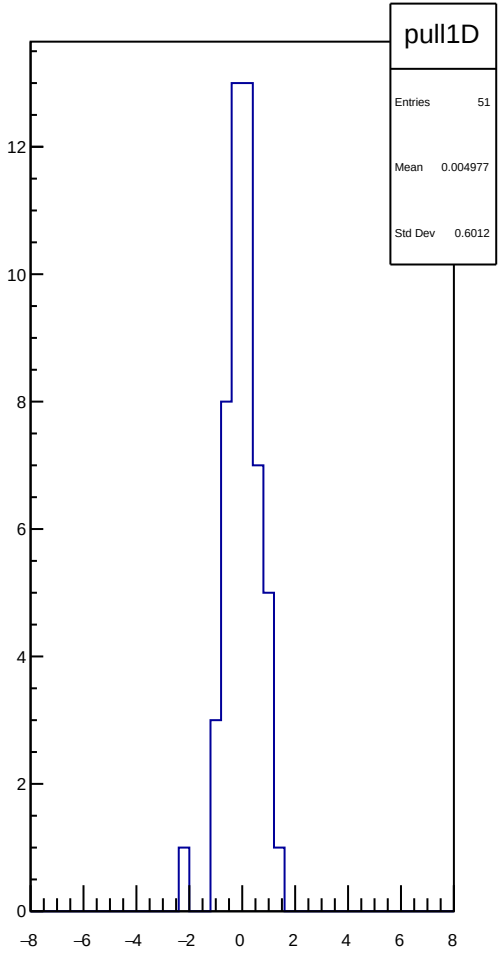

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 4.823 / 50
p0 −388.5 ± 0.5919
pull
Entries 51
Mean 154.3
Std Dev 127
pull1D
Entries 51
Mean −0.0191
Std Dev 0.3069

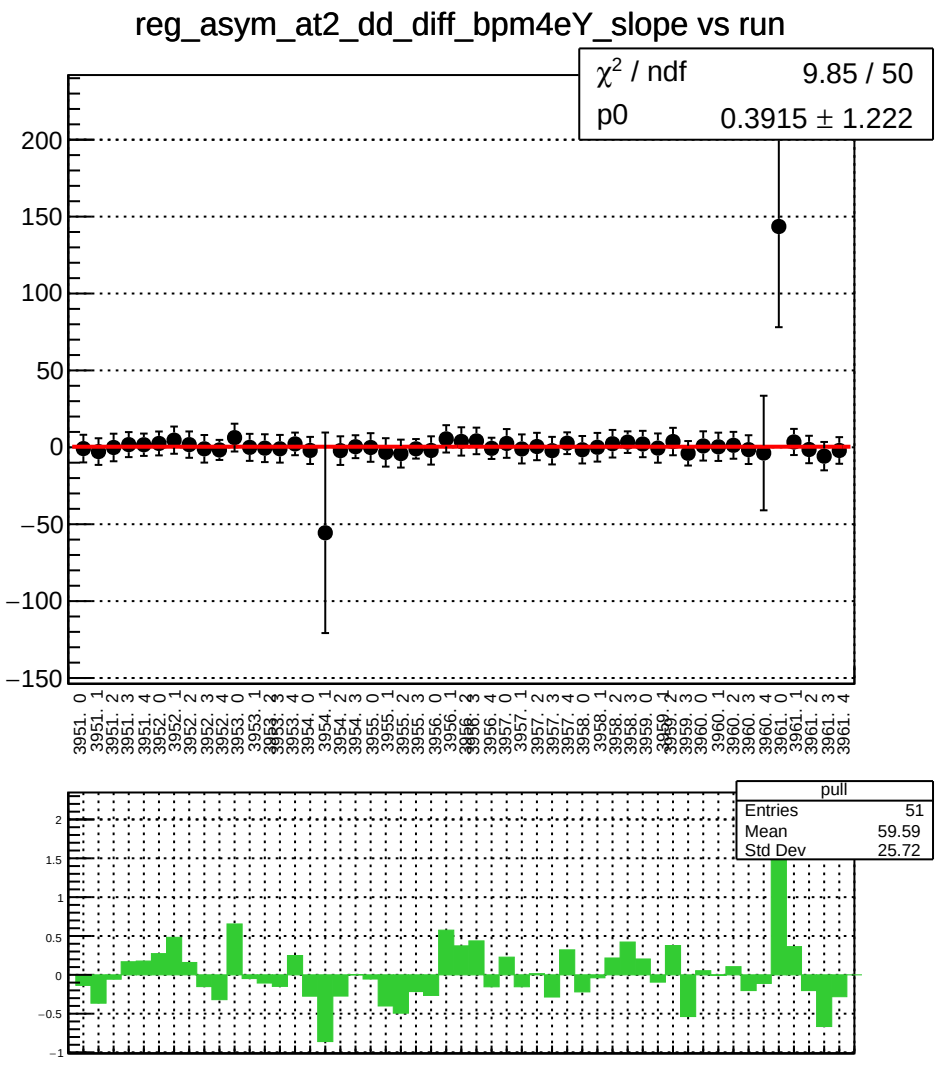

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.834 / 50
p0 −32.16 ± 1.066
pull
Entries 51
Mean 85.92
Std Dev 57.54

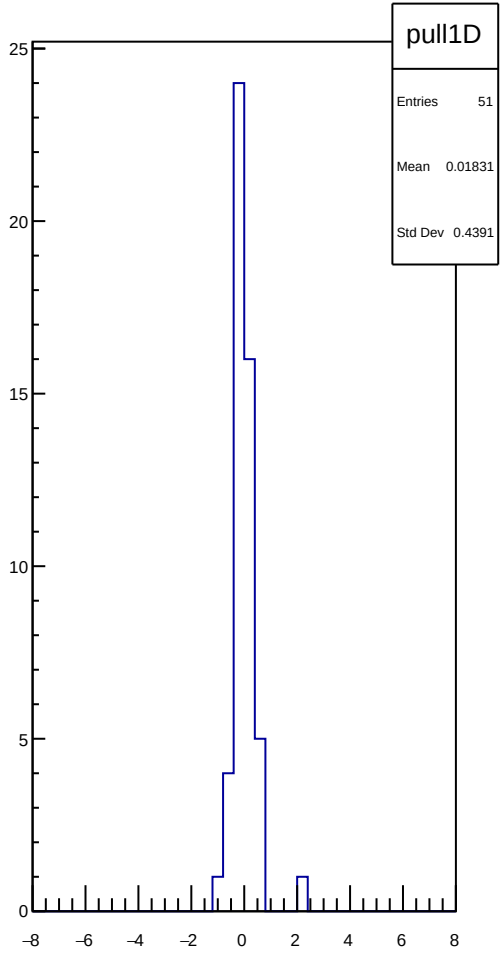

pull1D
Entries 51
Mean 0.01026
Std Dev 0.439

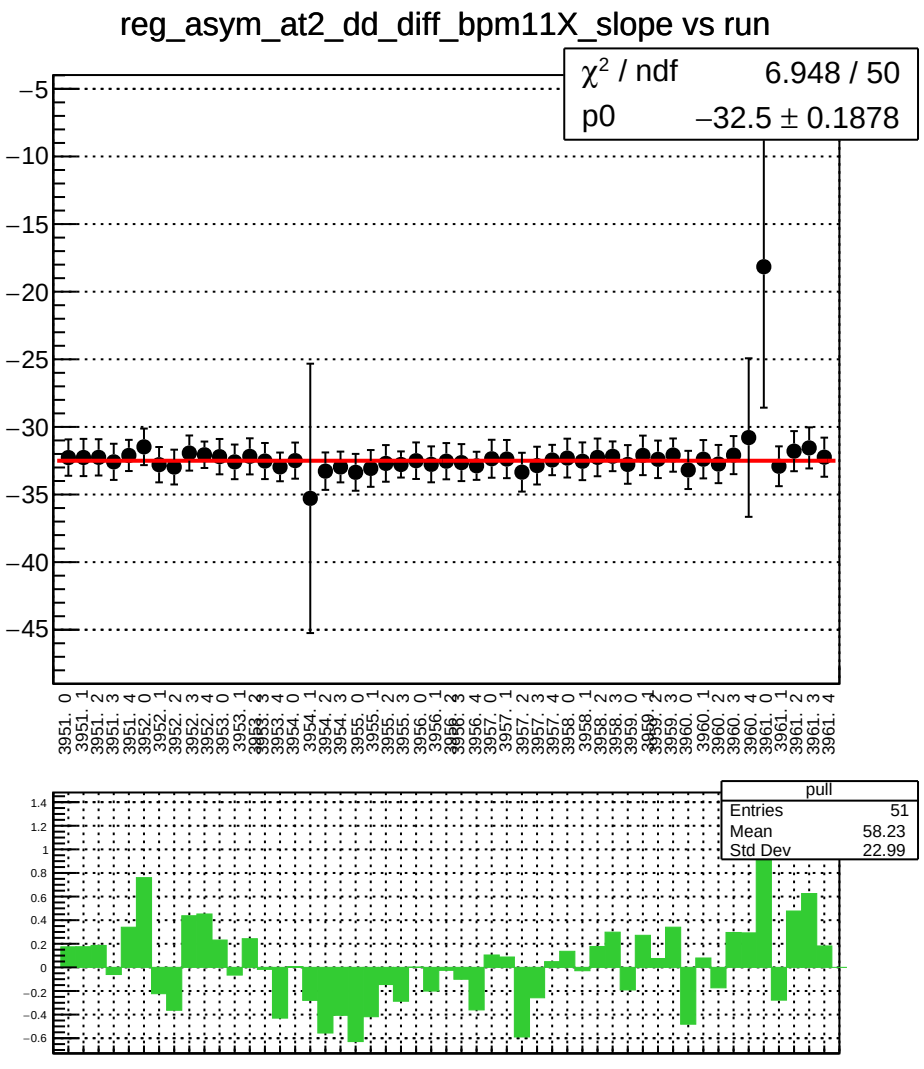

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.875 / 50
p0 3.289 ± 0.7299
pull
Entries 51
Mean 92.11
Std Dev 60.65
pull1D
Entries 51
Mean −0.01281
Std Dev 0.4398

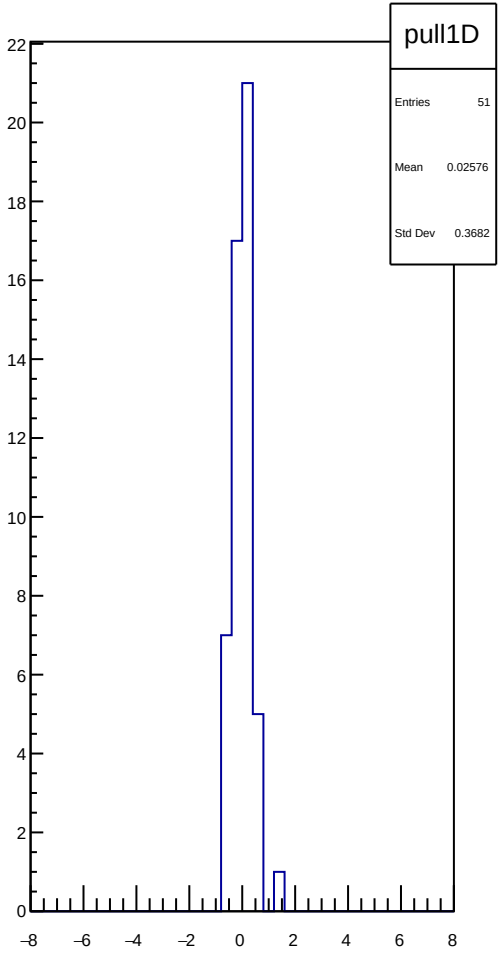

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.44 / 50
p0 55.18 ± 0.1818
pull
Entries 51
Mean 836.8
Std Dev 813.8

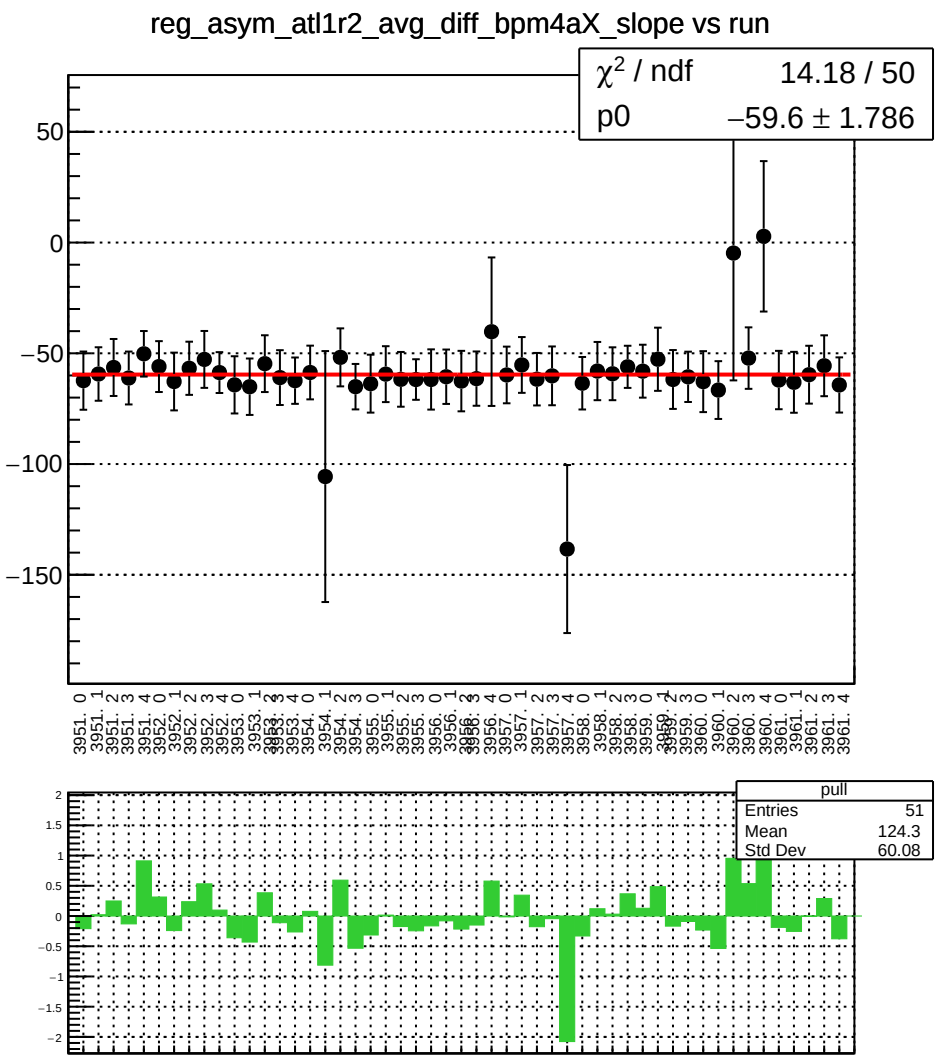

pull1D
Entries 51
Mean 0.004977
Std Dev 0.6012

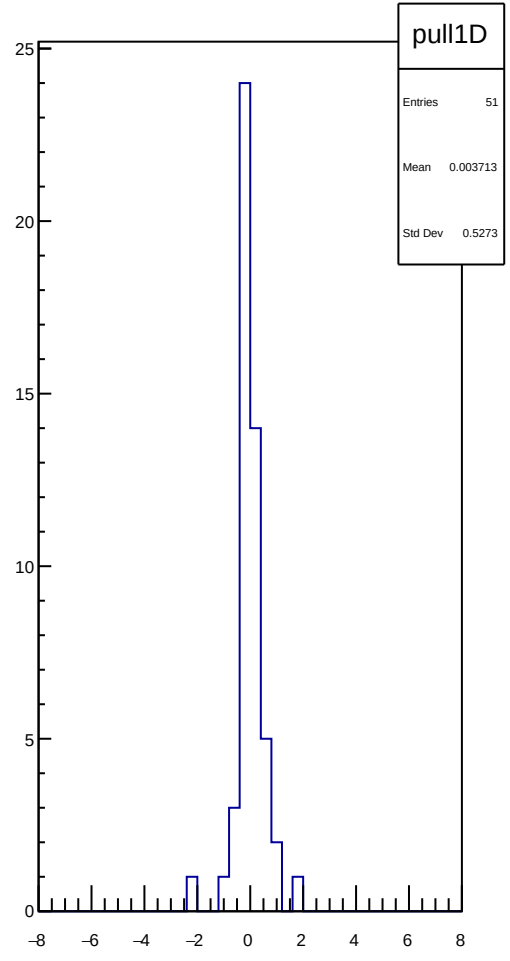

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.85 / 50
p0 0.3915 ± 1.222
pull
Entries 51
Mean 59.59
Std Dev 25.72

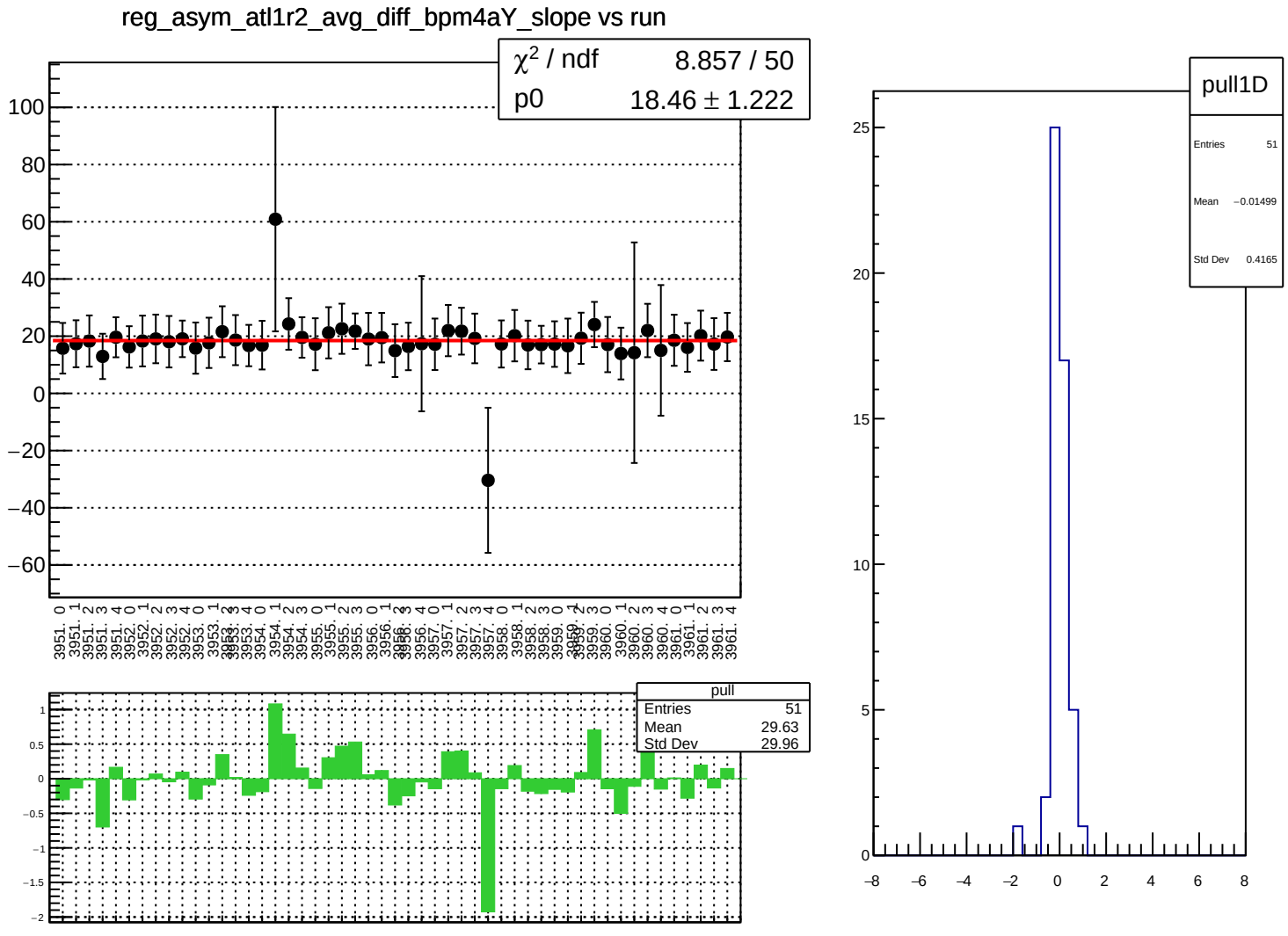

pull1D
Entries 51
Mean 0.01831
Std Dev 0.4391

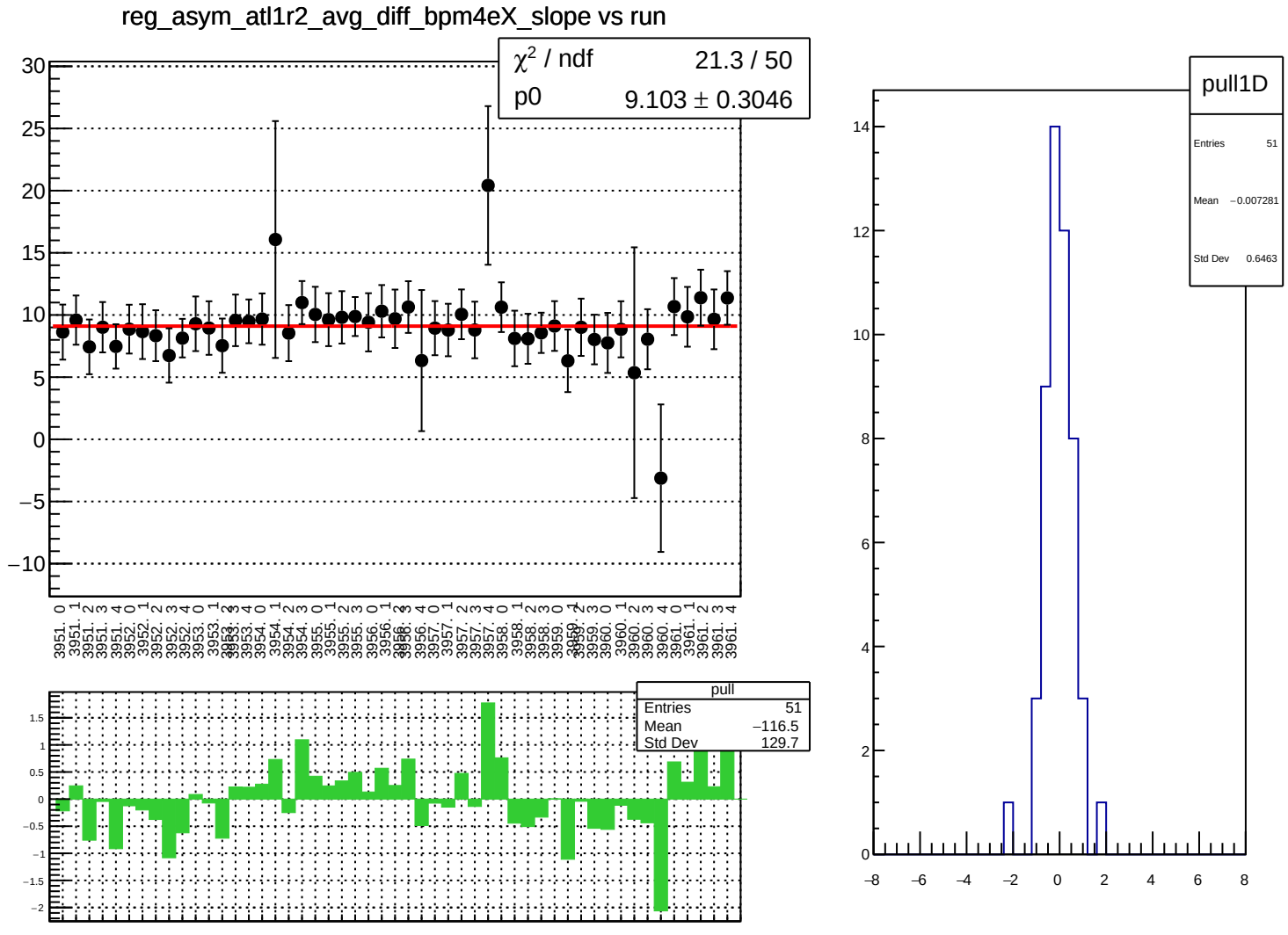

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 6.948 / 50
p0 −32.5 ± 0.1878
pull
Entries 51
Mean 58.23
Std Dev 22.99

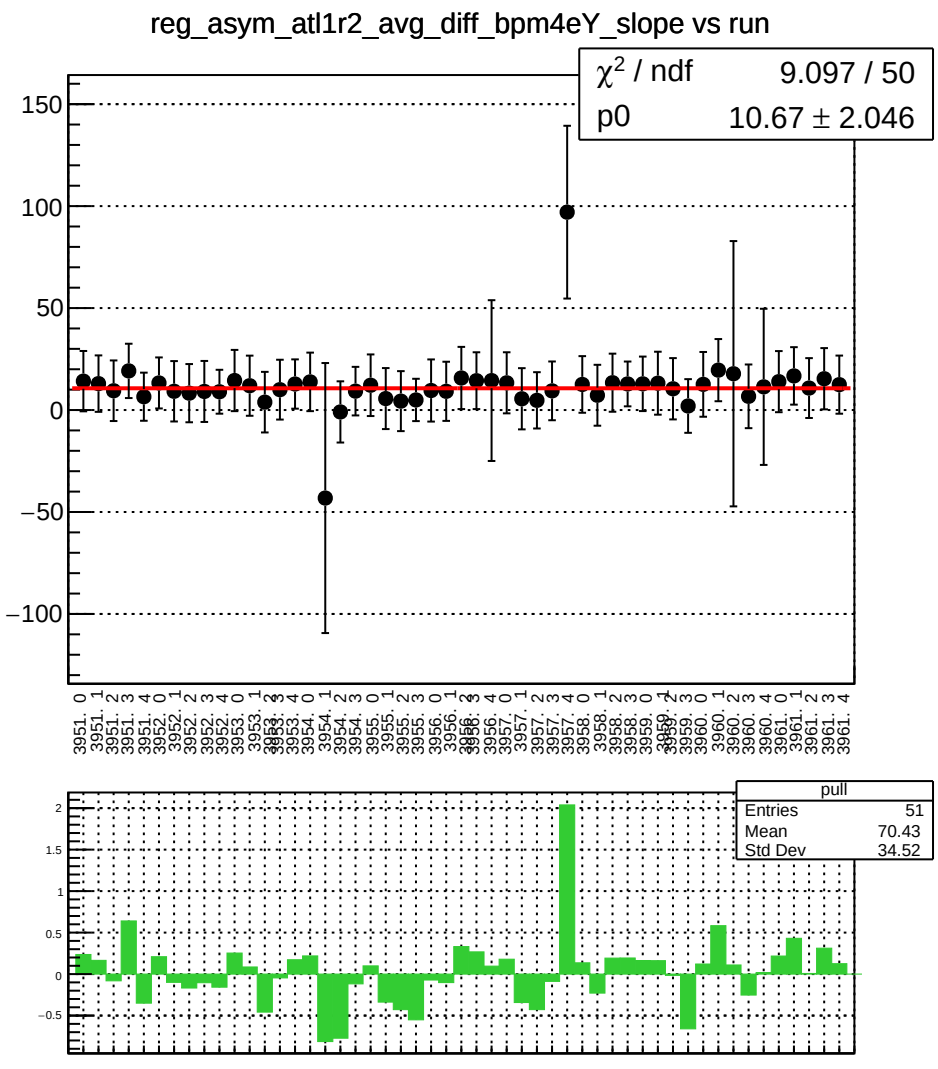

pull1D
Entries 51
Mean 0.02576
Std Dev 0.3682

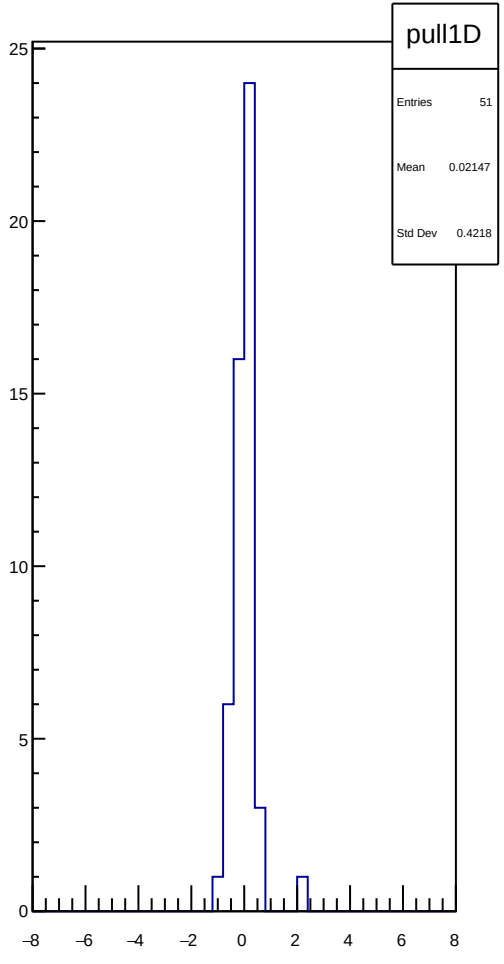

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.18 / 50
p0 −59.6 ± 1.786
50
0
−50
−100
−150
pull
Entries 51
Mean 124.3
Std Dev 60.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

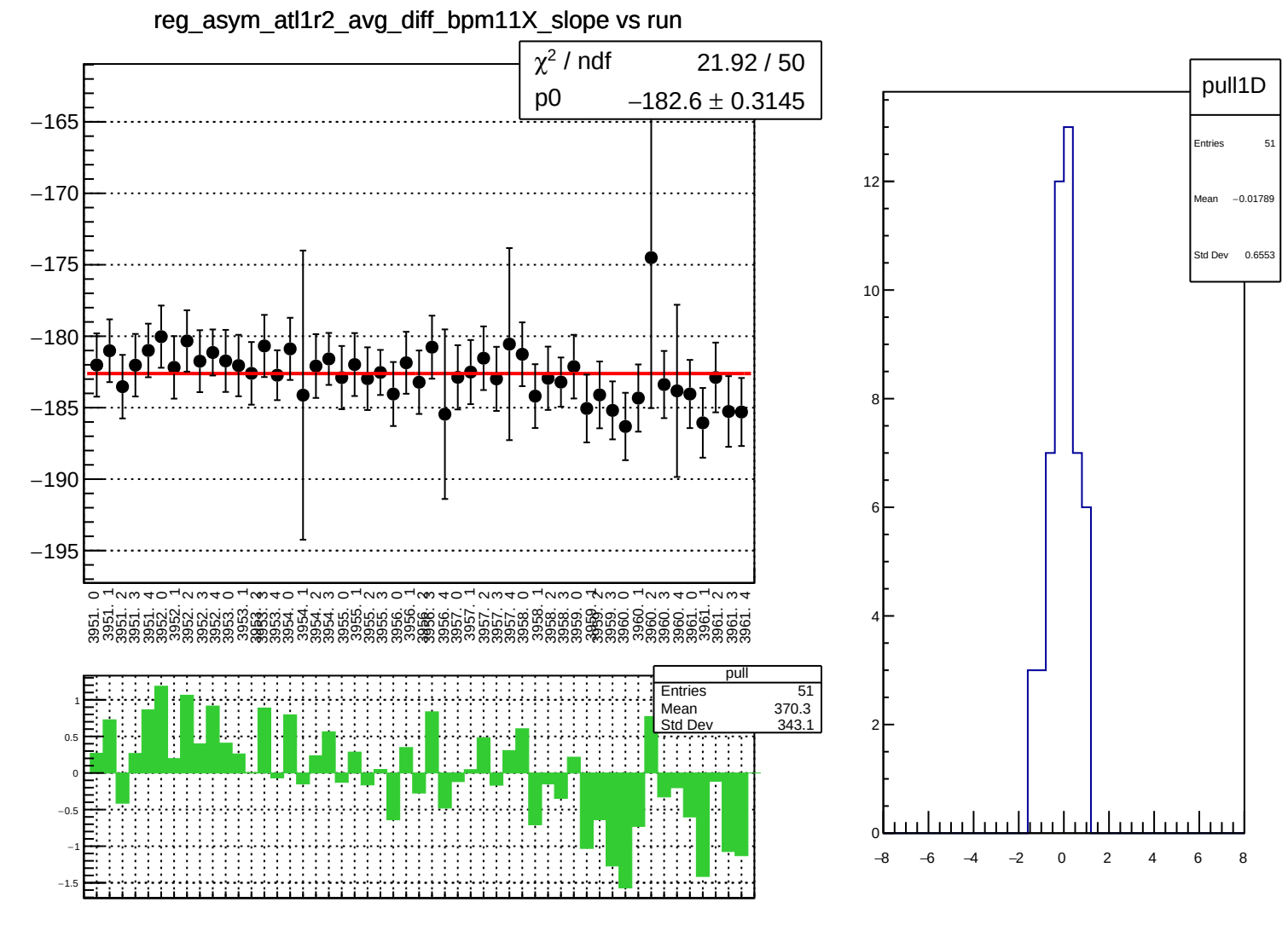

pull1D
Entries 51
Mean 0.003713
Std Dev 0.5273
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

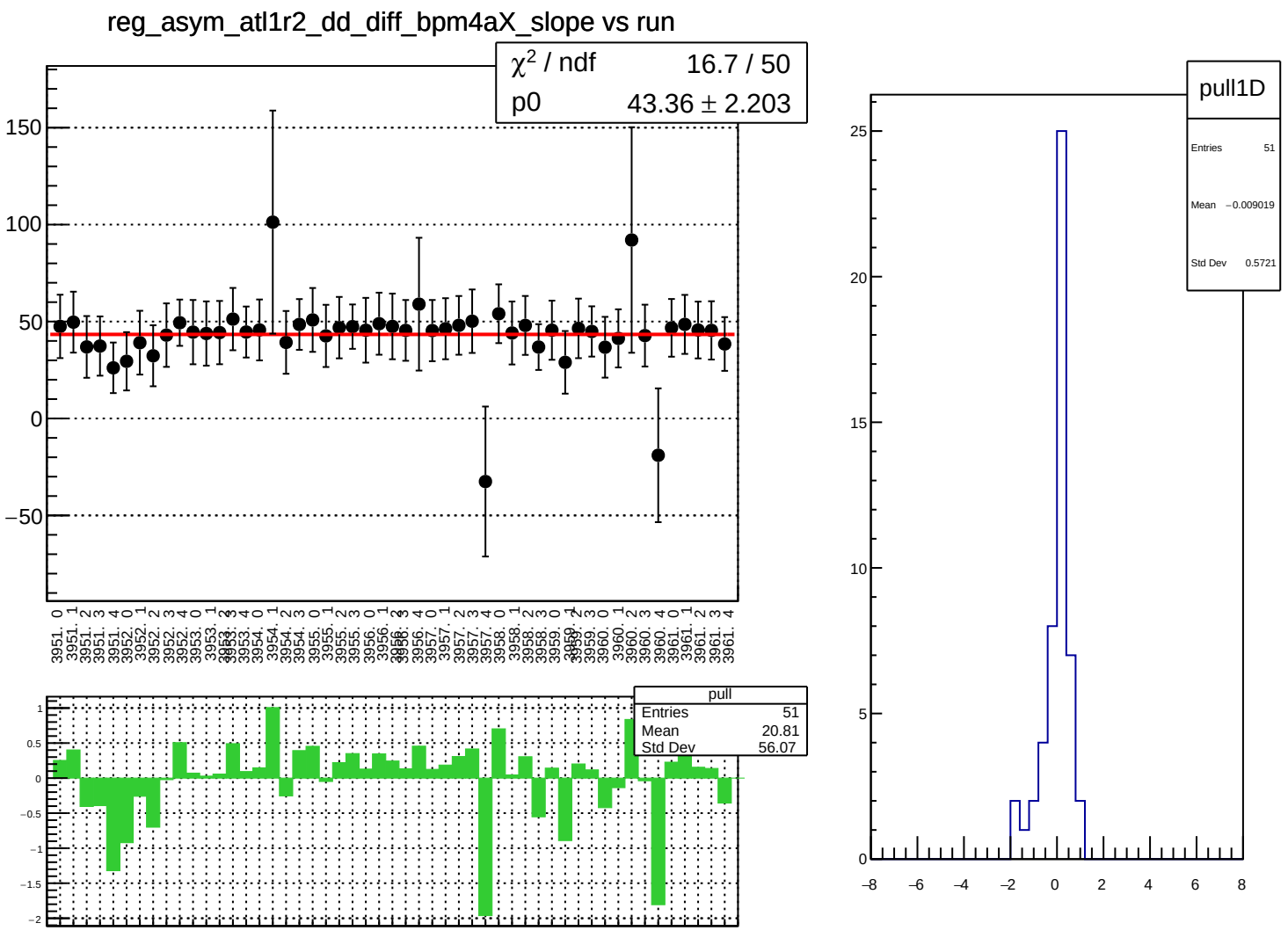

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.857 / 50
p0 18.46 ± 1.222
pull
Entries 51
Mean 29.63
Std Dev 29.96
pull1D
Entries 51
Mean −0.01499
Std Dev 0.4165

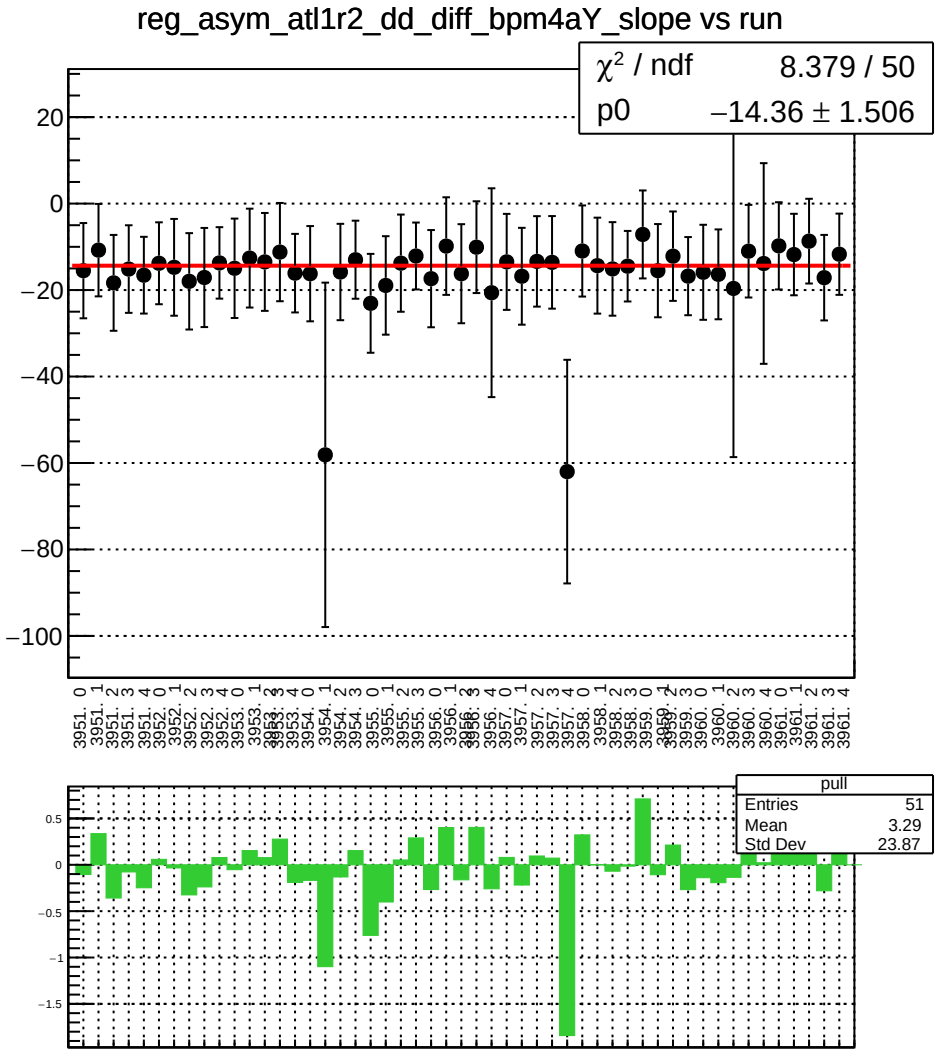

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.3 / 50
p0 9.103 ± 0.3046
pull
Entries 51
Mean −116.5
Std Dev 129.7
pull1D
Entries 51
Mean −0.007281
Std Dev 0.6463

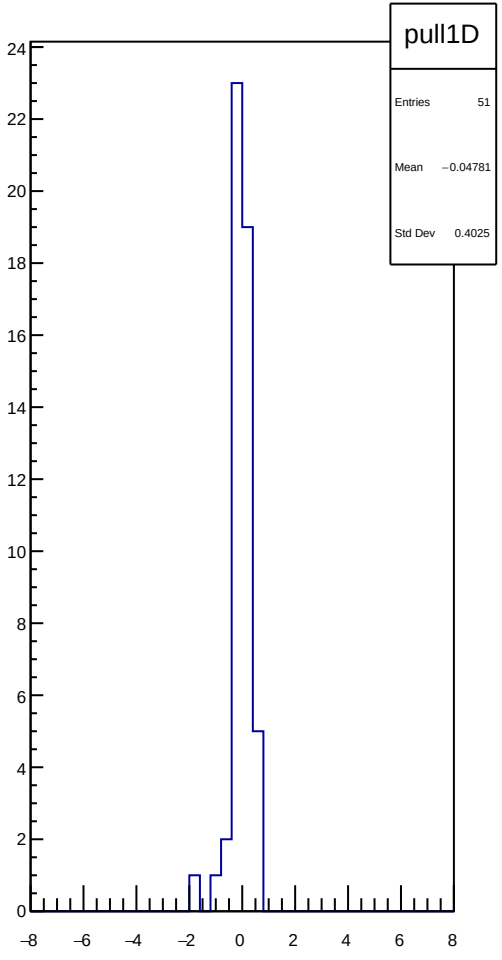

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.097 / 50
p0 10.67 ± 2.046
150
100
50
0
−50
−100
pull
Entries 51
Mean 70.43
Std Dev 34.52
2
1.5
1
0.5
0
−0.5

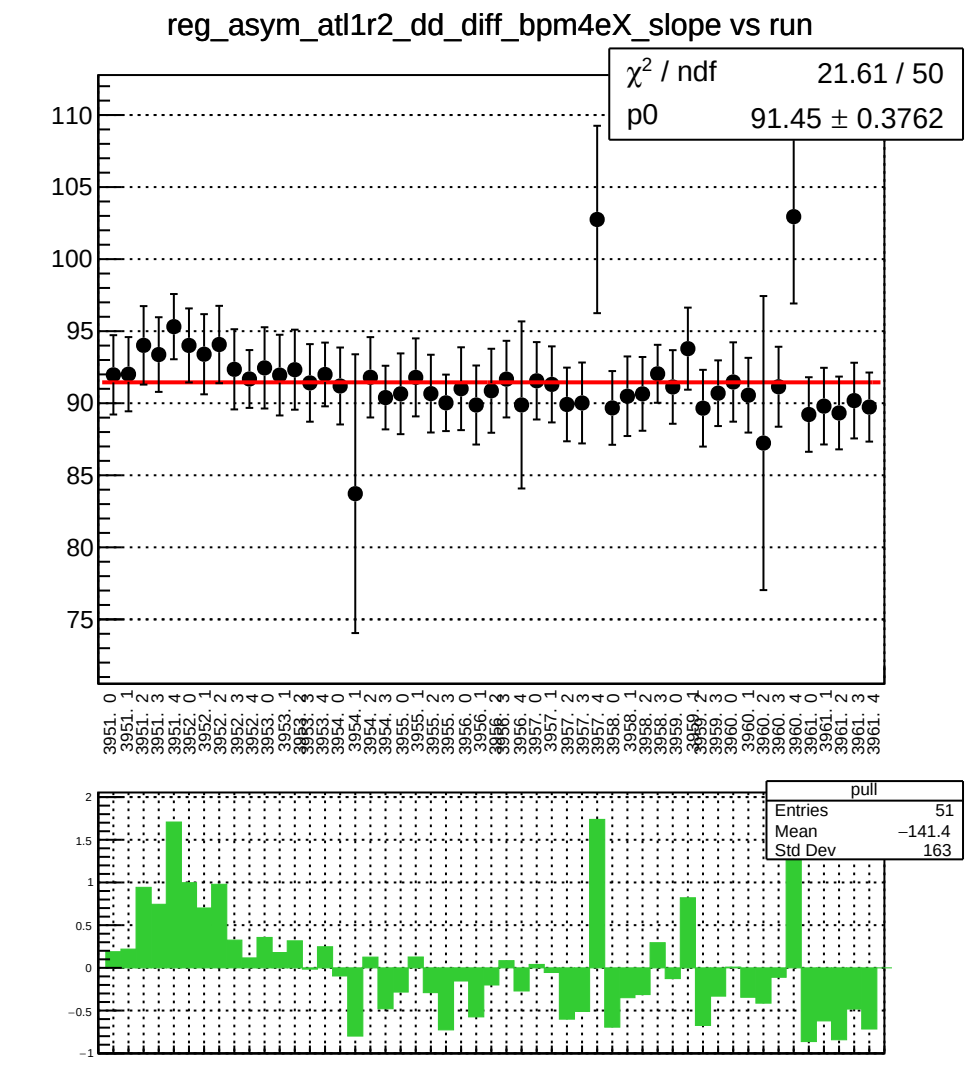

pull1D
Entries 51
Mean 0.02147
Std Dev 0.4218
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

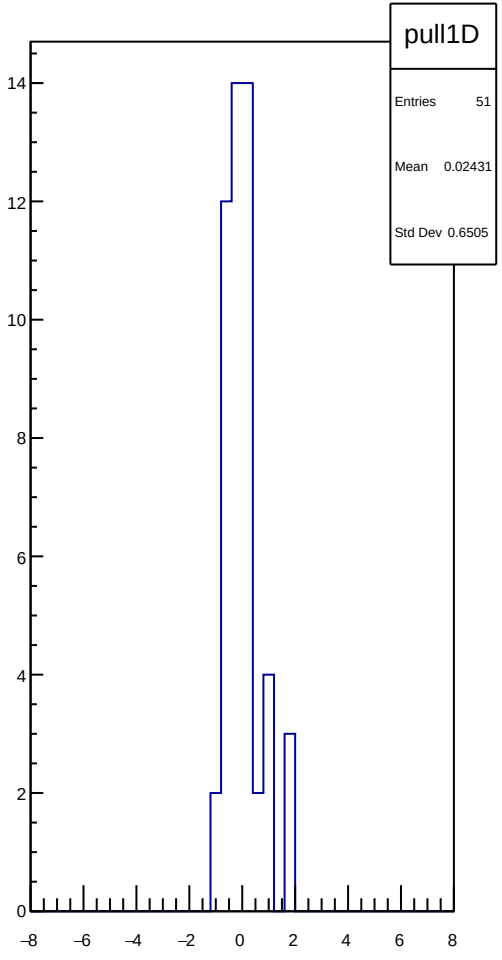

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 21.92 / 50
p0 −182.6 ± 0.3145
pull
Entries 51
Mean 370.3
Std Dev 343.1
pull1D
Entries 51
Mean −0.01789
Std Dev 0.6553

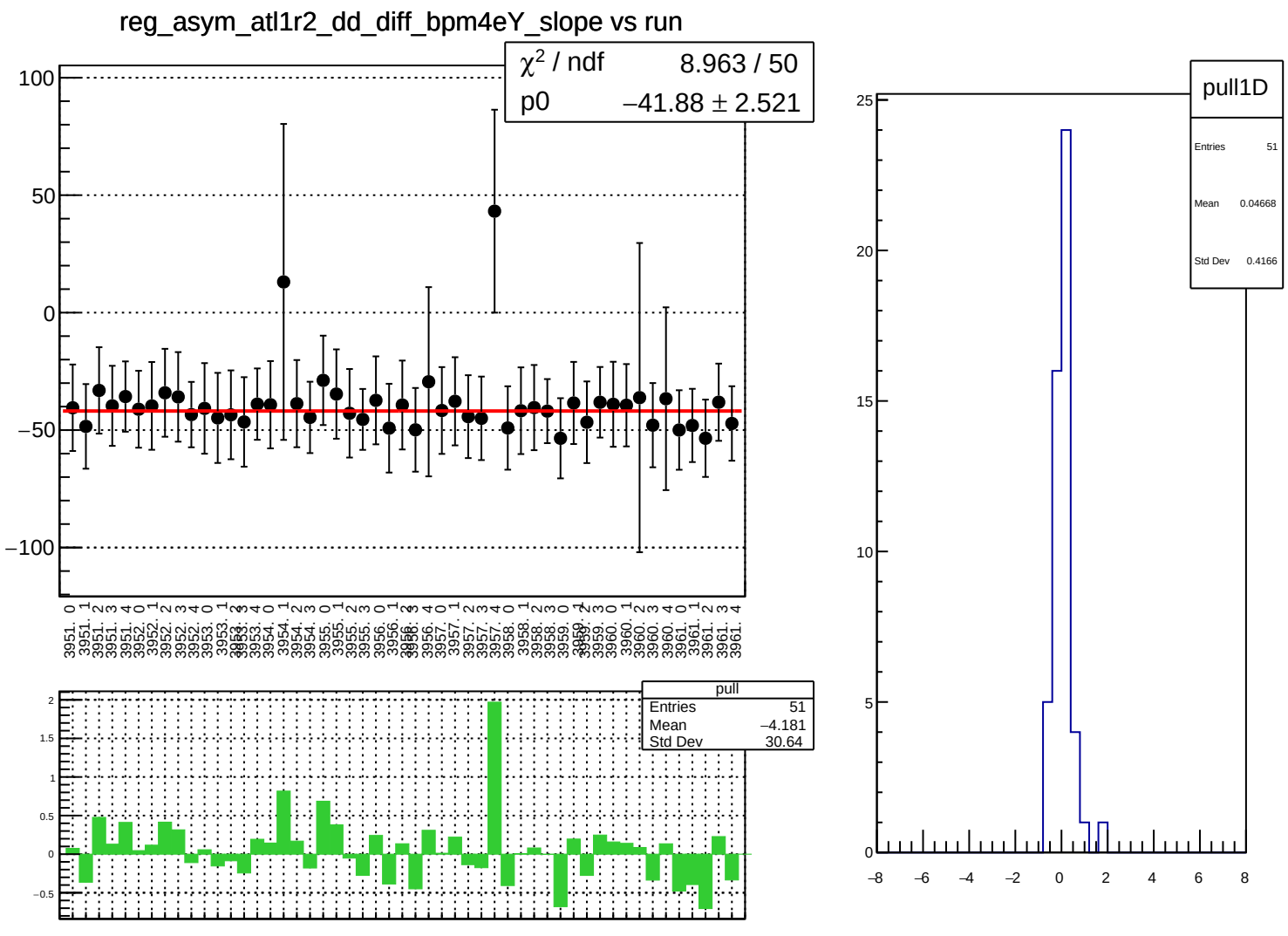

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 16.7 / 50
p0 43.36 ± 2.203
150
100
50
0
−50
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3954. 4
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4
pull
Entries 51
Mean 20.81
Std Dev 56.07
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 51
Mean −0.009019
Std Dev 0.5721
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

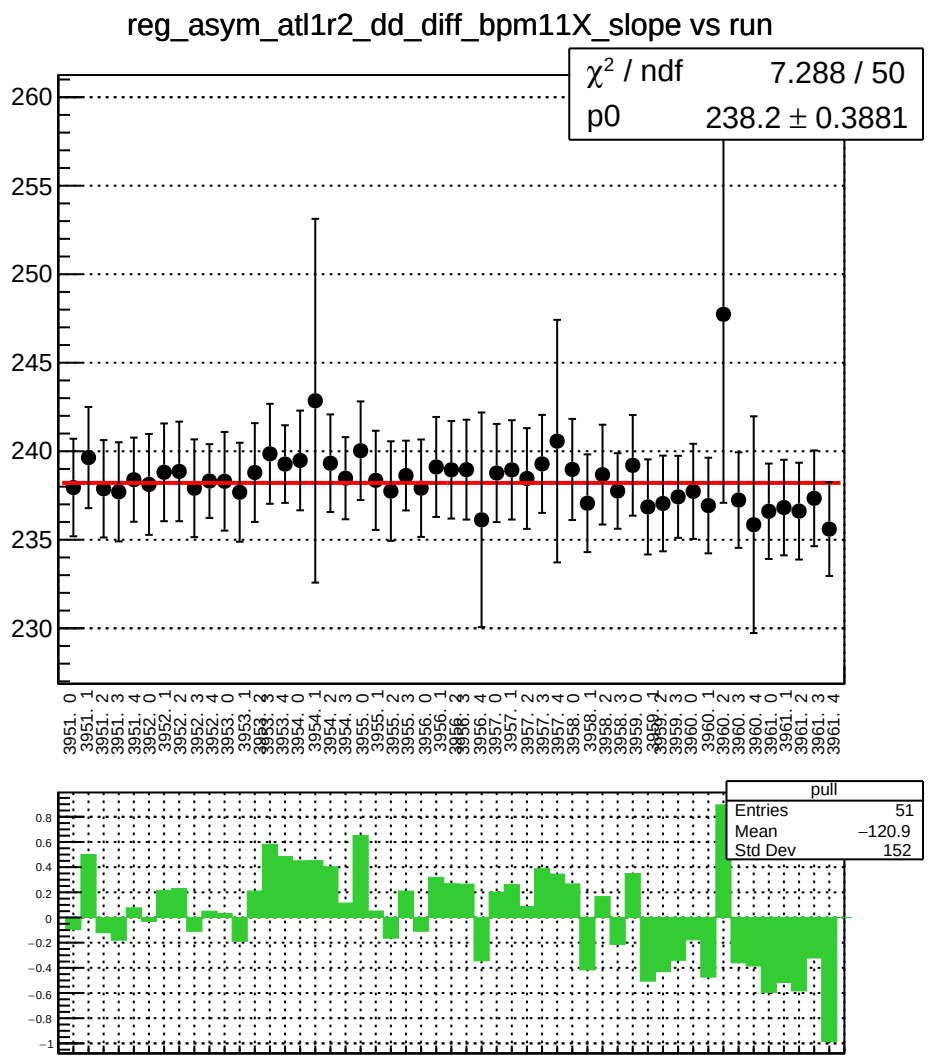

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.379 / 50
p0 −14.36 ± 1.506
pull
Entries 51
Mean 3.29
Std Dev 23.87

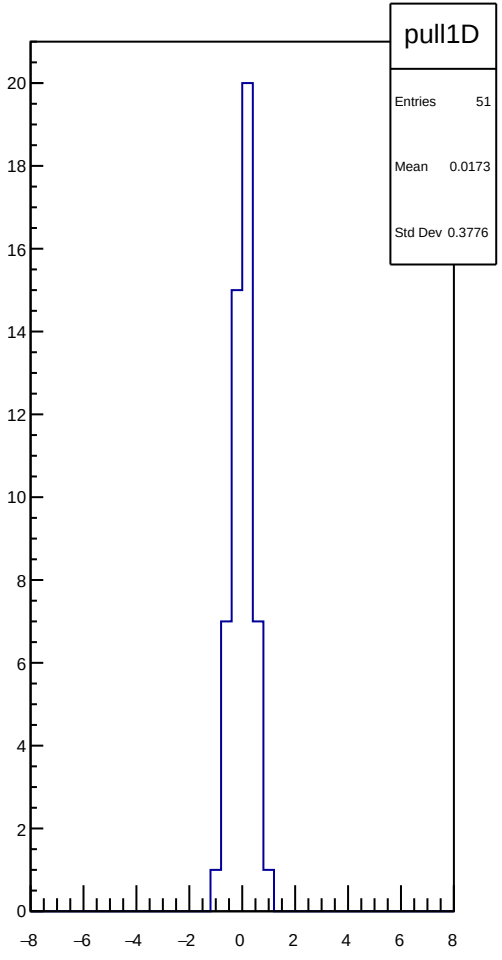

pull1D
Entries 51
Mean −0.04781
Std Dev 0.4025

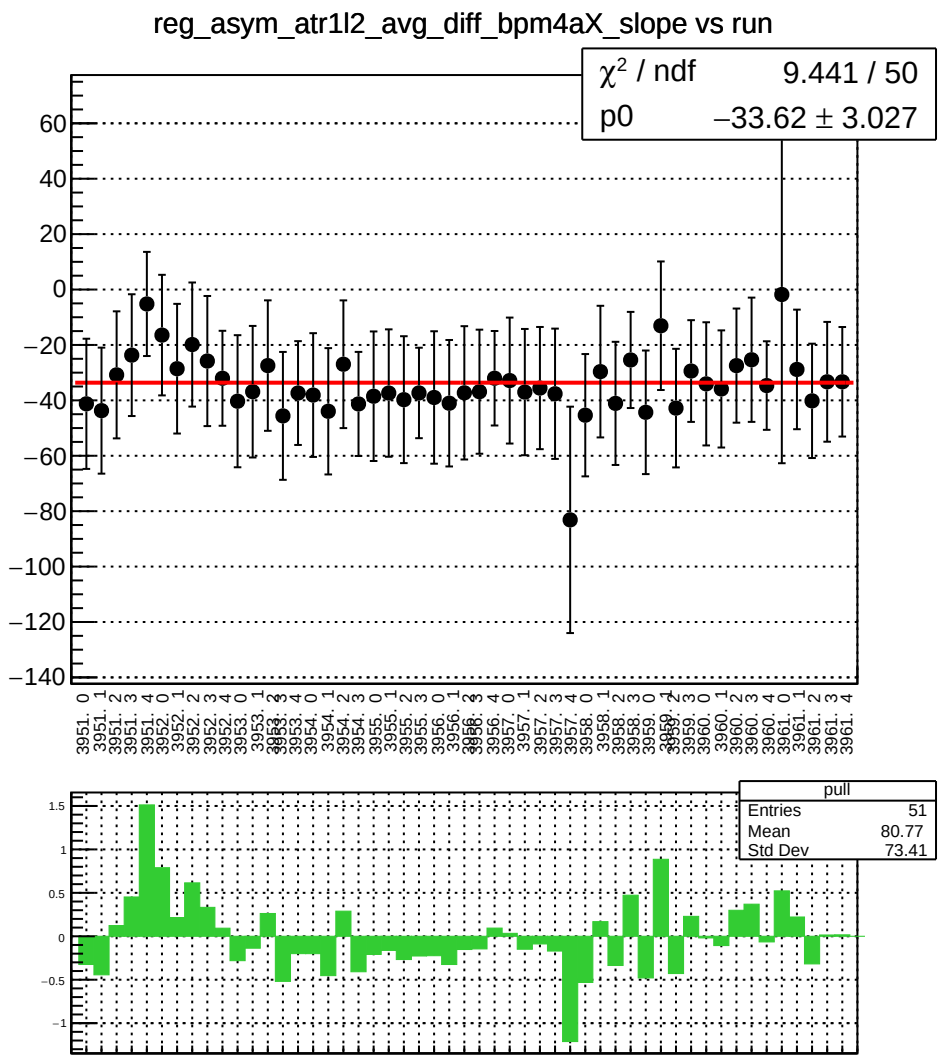

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.61 / 50
p0 91.45 ± 0.3762
pull
Entries 51
Mean −141.4
Std Dev 163

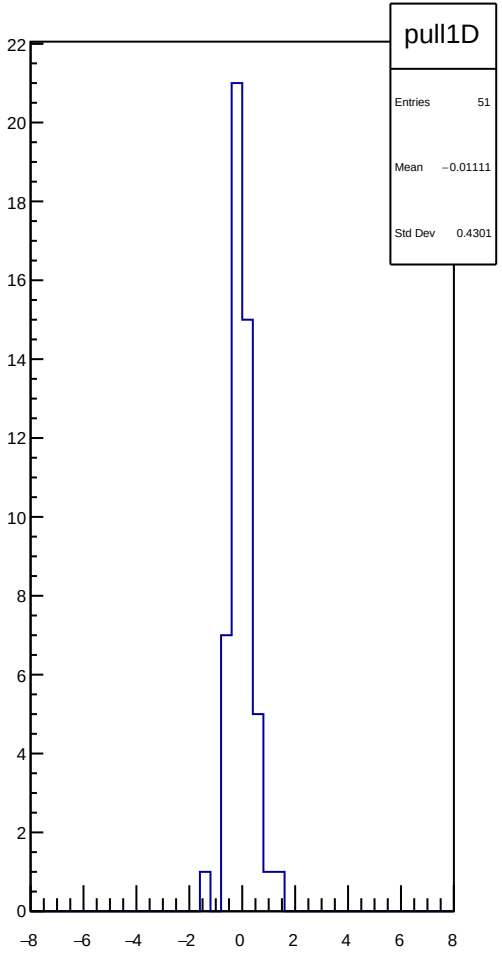

pull1D
Entries 51
Mean 0.02431
Std Dev 0.6505

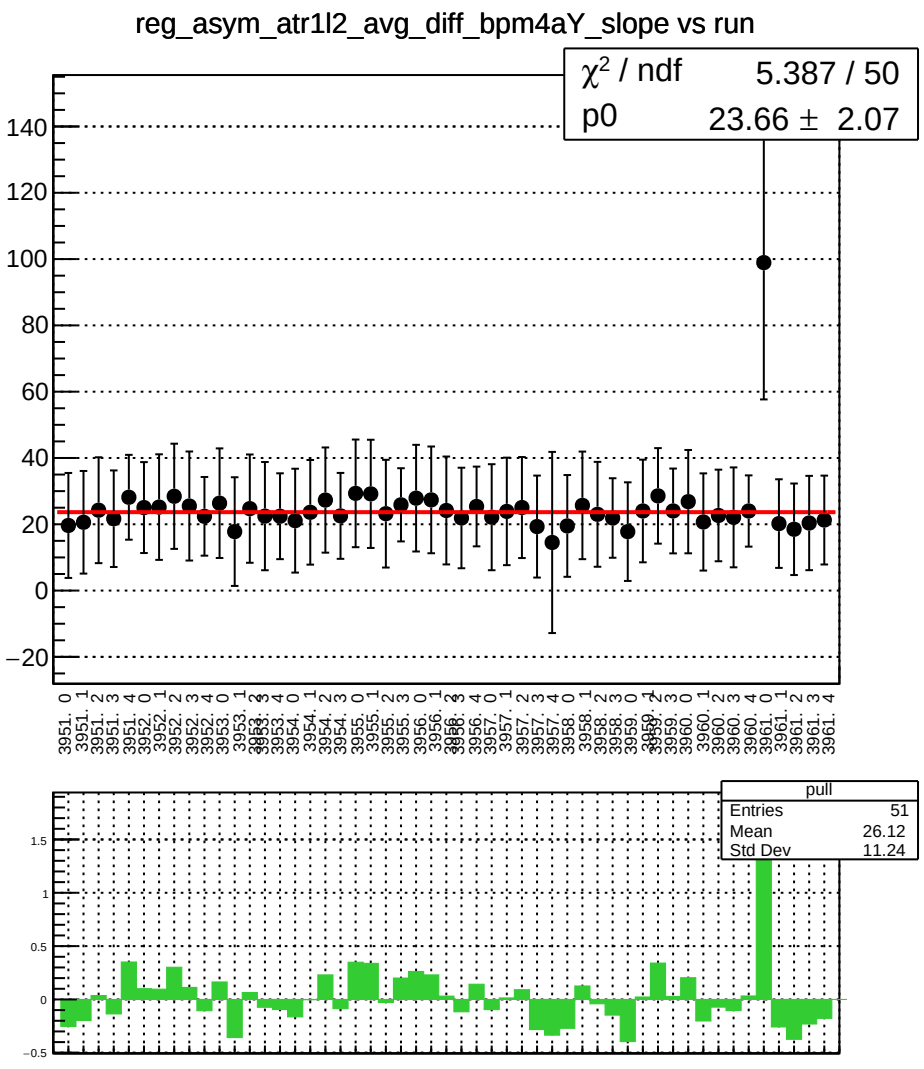

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.963 / 50
p0 −41.88 ± 2.521
pull
Entries 51
Mean −4.181
Std Dev 30.64
pull1D
Entries 51
Mean 0.04668
Std Dev 0.4166

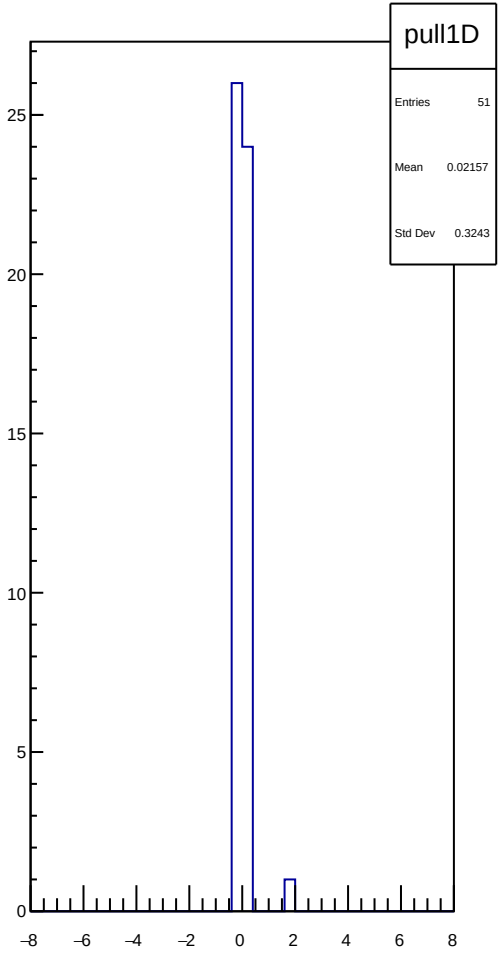

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 7.288 / 50
p0 238.2 ± 0.3881
pull
Entries 51
Mean −120.9
Std Dev 152

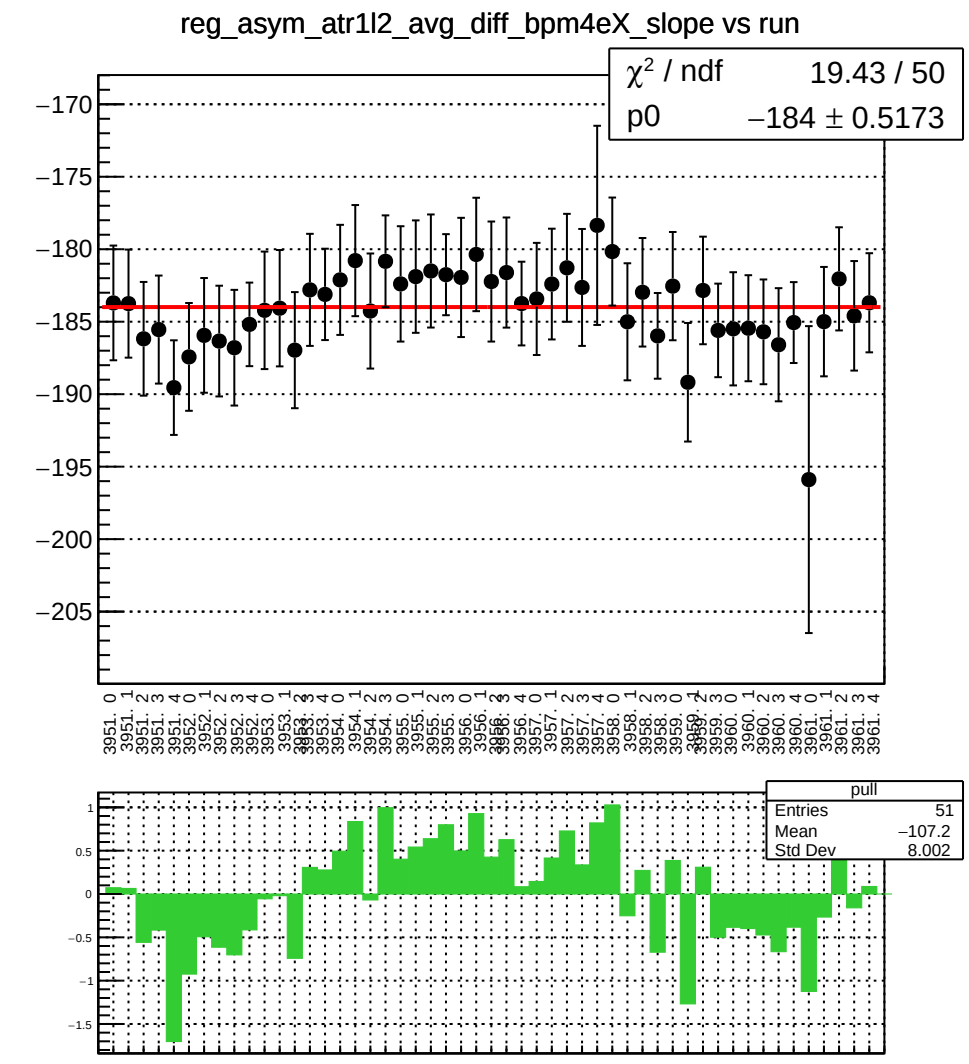

pull1D
Entries 51
Mean 0.0173
Std Dev 0.3776

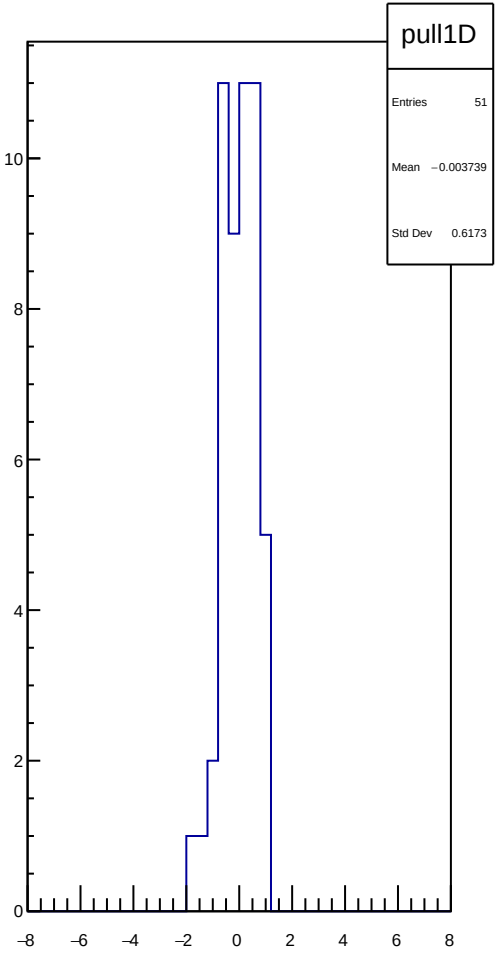

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.441 / 50
p0 −33.62 ± 3.027
pull
Entries 51
Mean 80.77
Std Dev 73.41

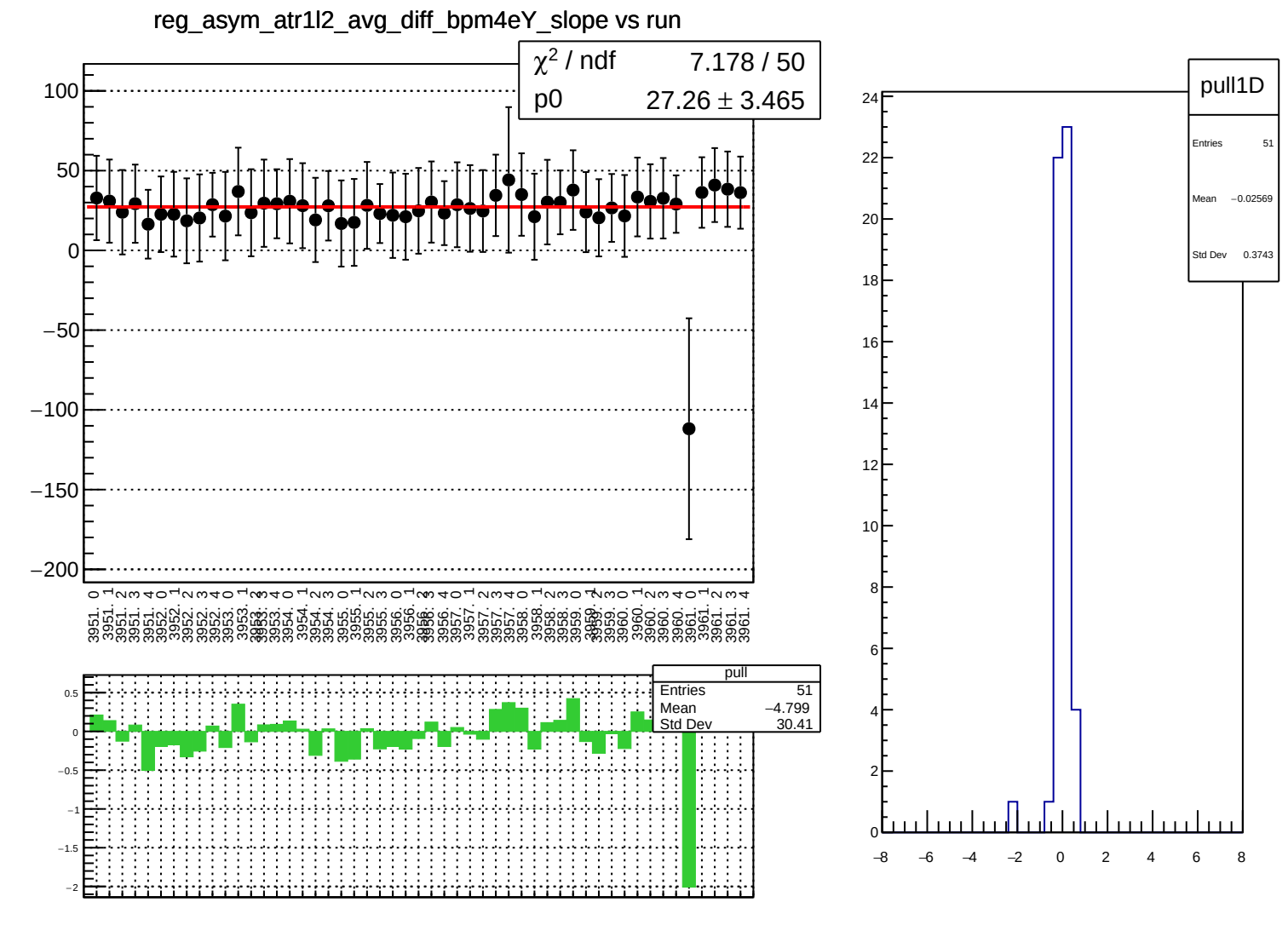

pull1D
Entries 51
Mean −0.01111
Std Dev 0.4301

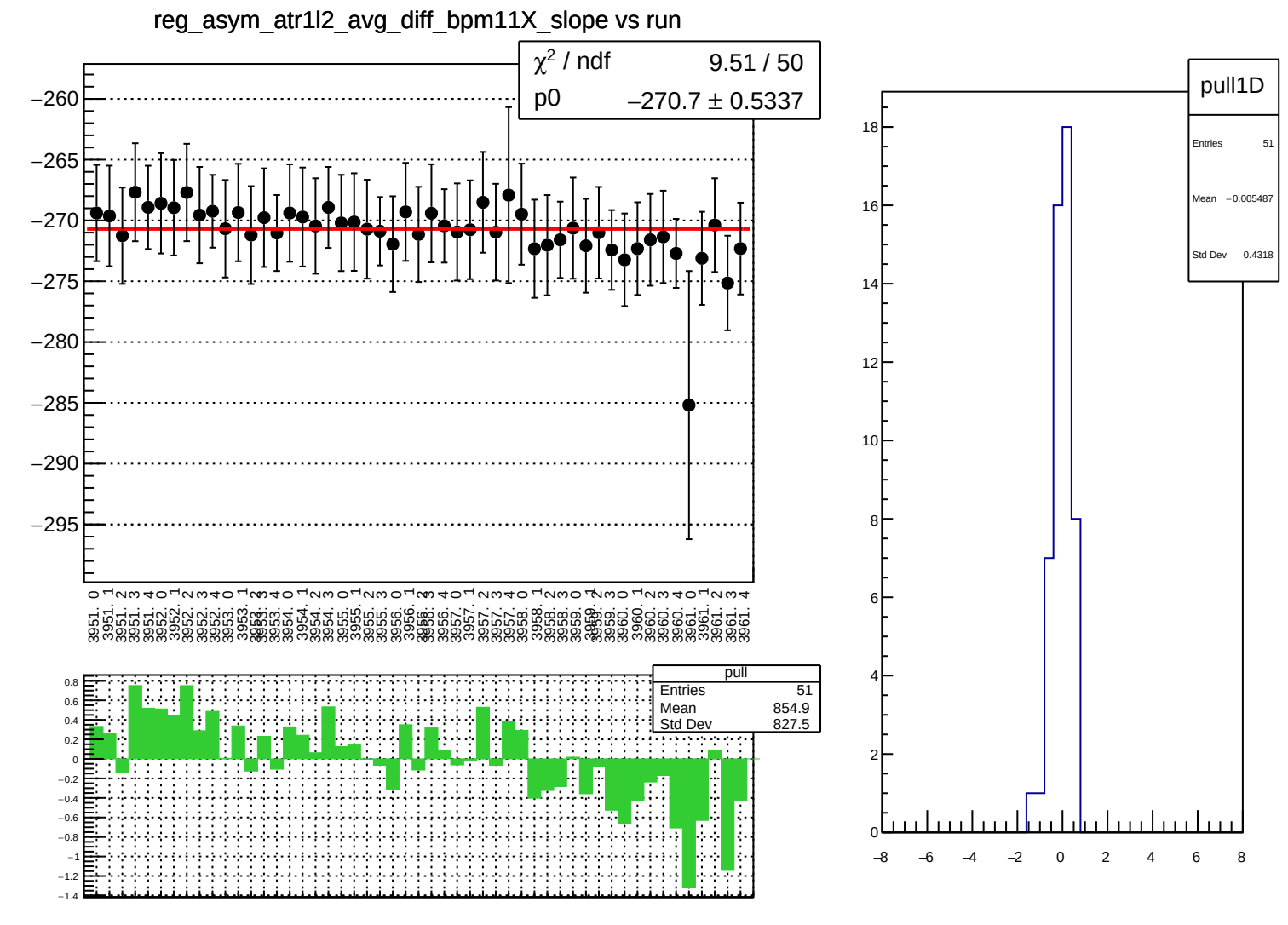

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.387 / 50
p0 23.66 ± 2.07
pull
Entries 51
Mean 26.12
Std Dev 11.24

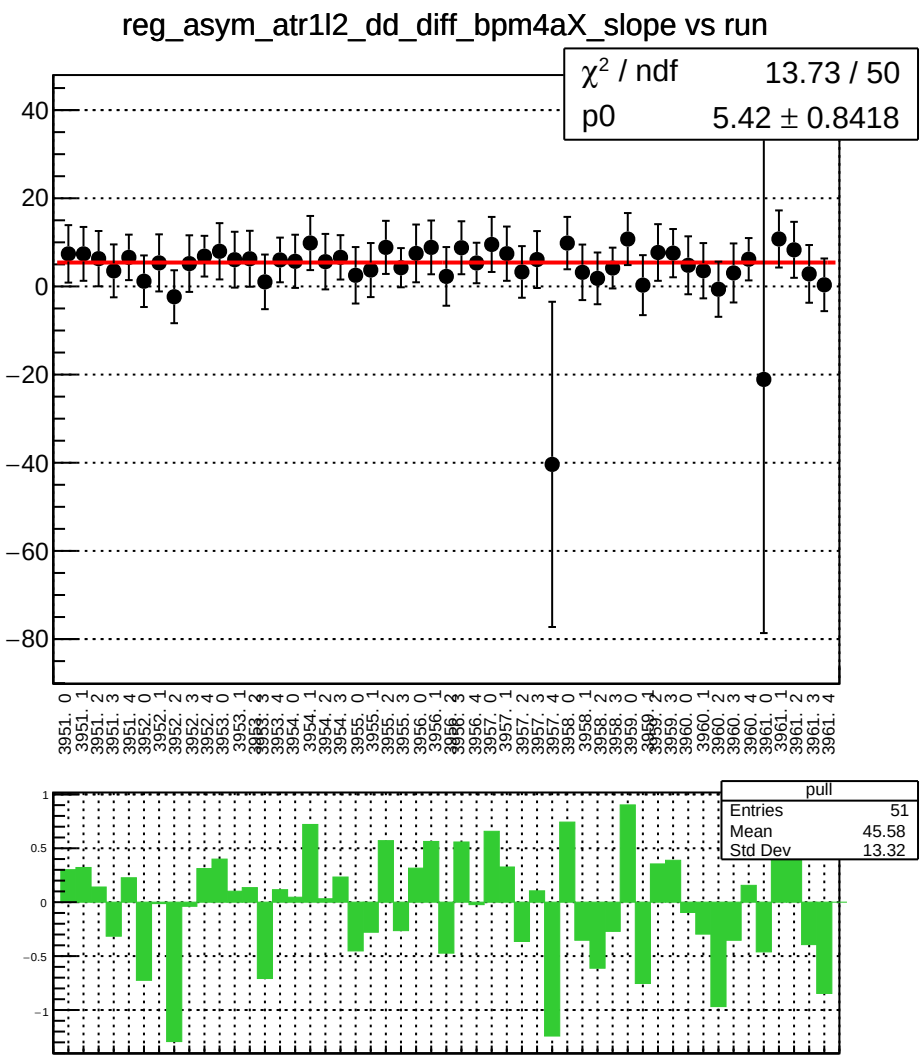

pull1D
Entries 51
Mean 0.02157
Std Dev 0.3243

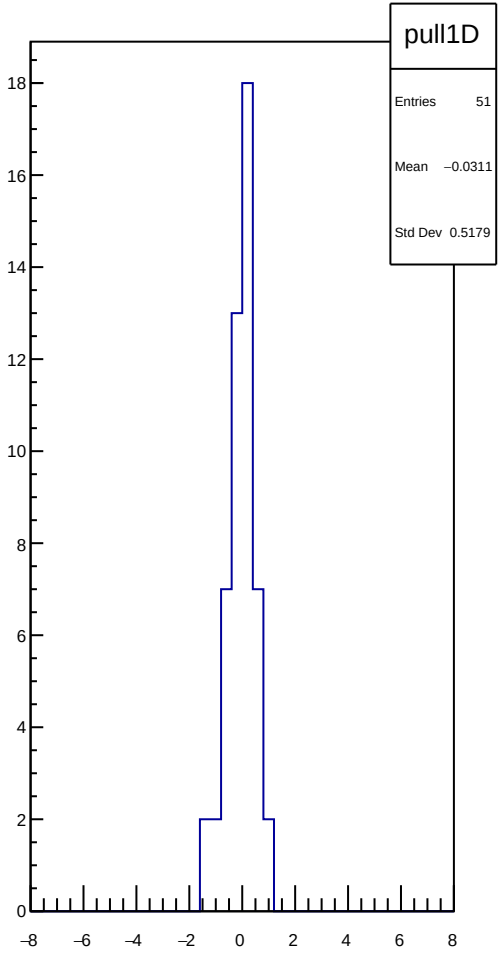

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.43 / 50
p0 −184 ± 0.5173
pull
Entries 51
Mean −107.2
Std Dev 8.002

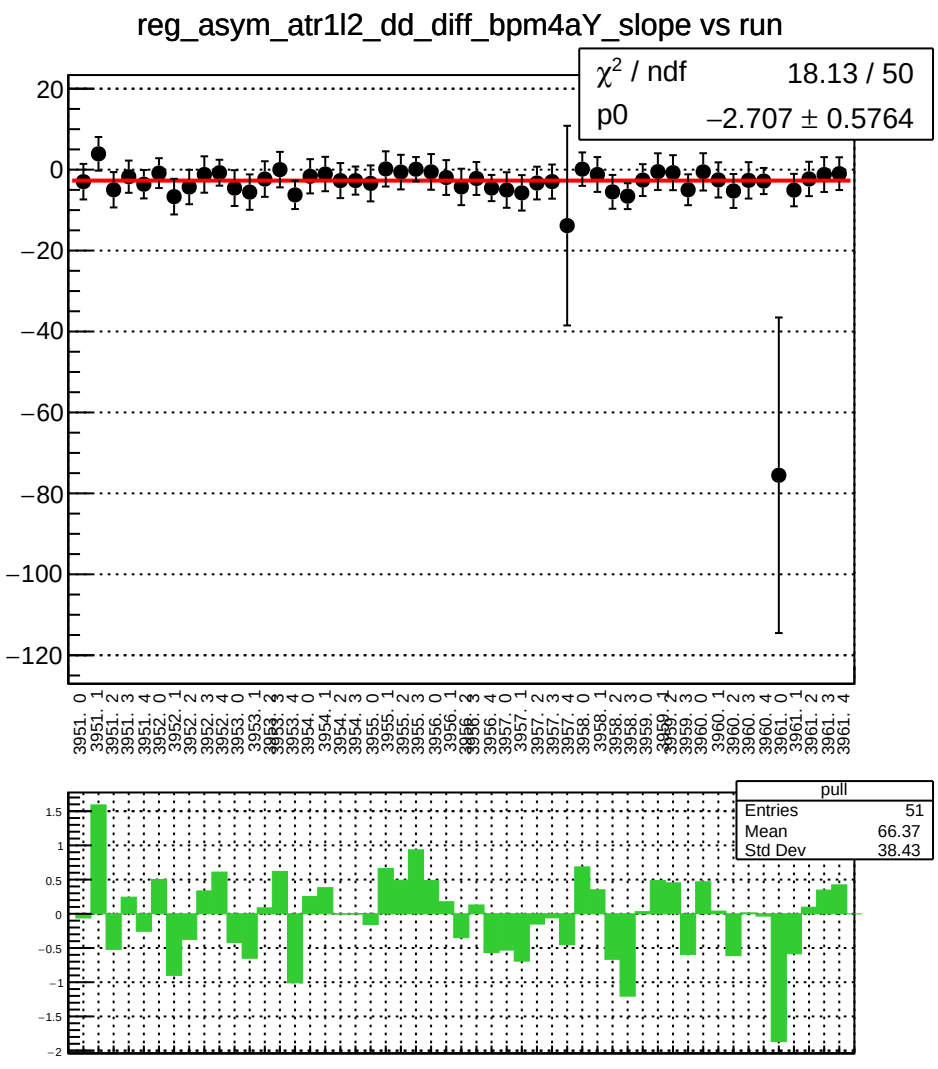

pull1D
Entries 51
Mean −0.003739
Std Dev 0.6173

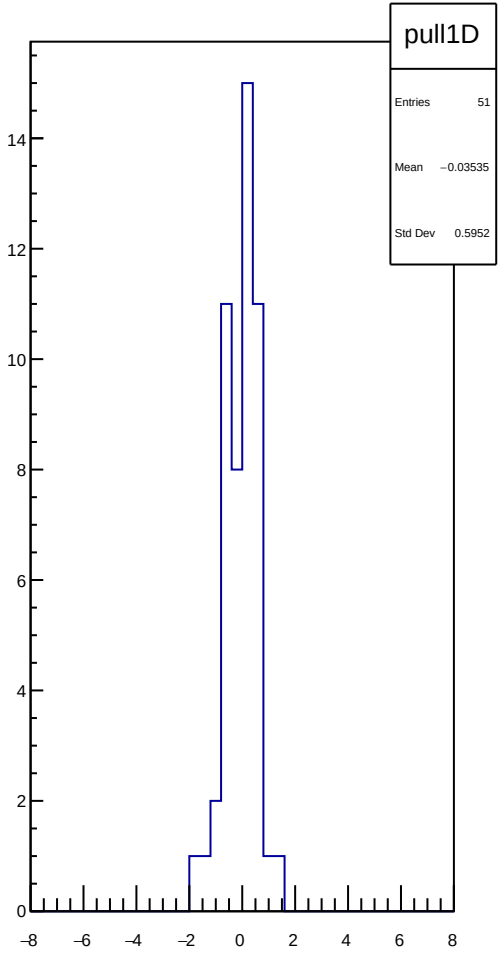

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.178 / 50
p0 27.26 ± 3.465
pull
Entries 51
Mean −4.799
Std Dev 30.41
pull1D
Entries 51
Mean −0.02569
Std Dev 0.3743

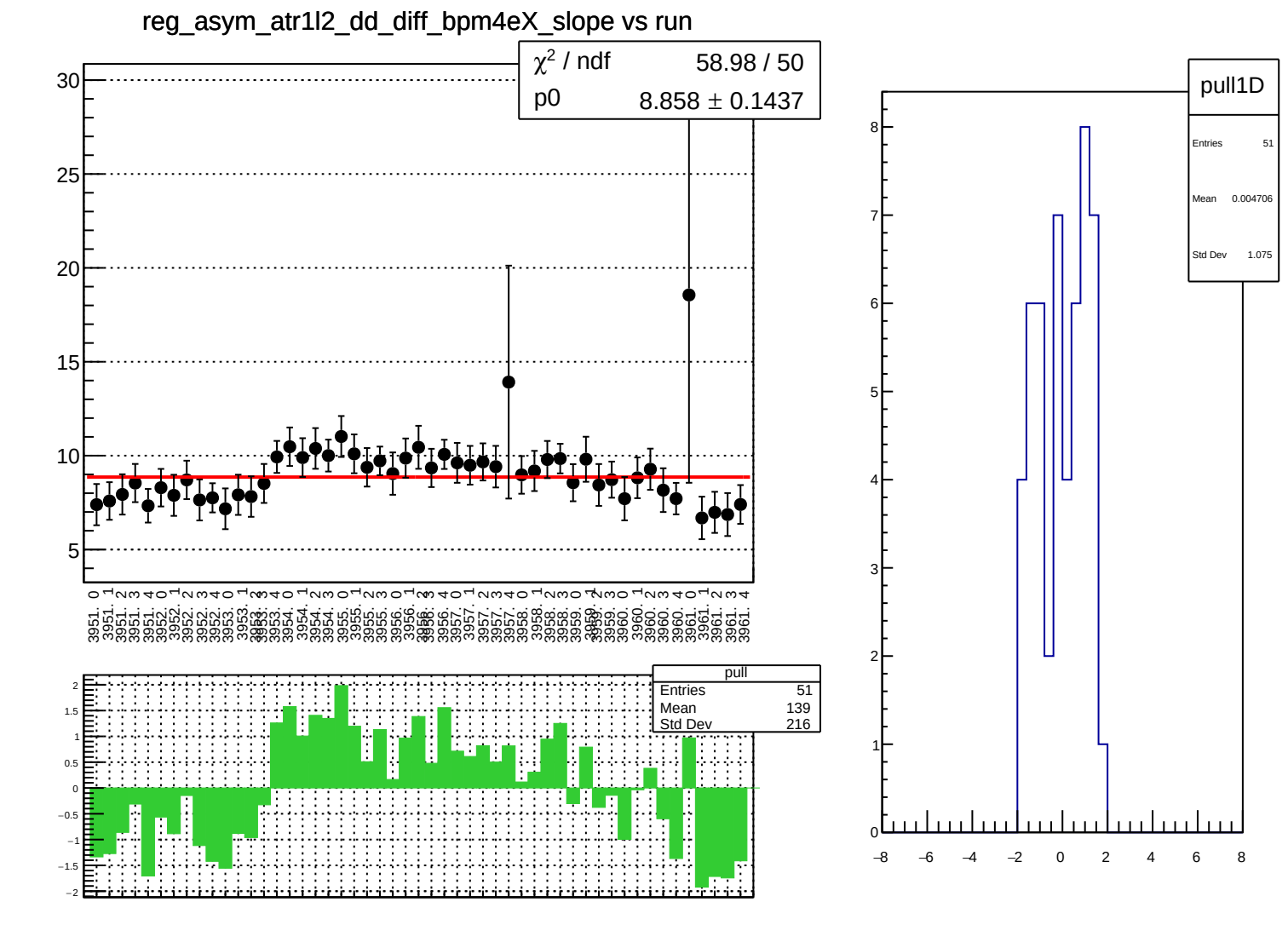

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 9.51 / 50
p0 −270.7 ± 0.5337
pull
Entries 51
Mean 854.9
Std Dev 827.5
pull1D
Entries 51
Mean −0.005487
Std Dev 0.4318

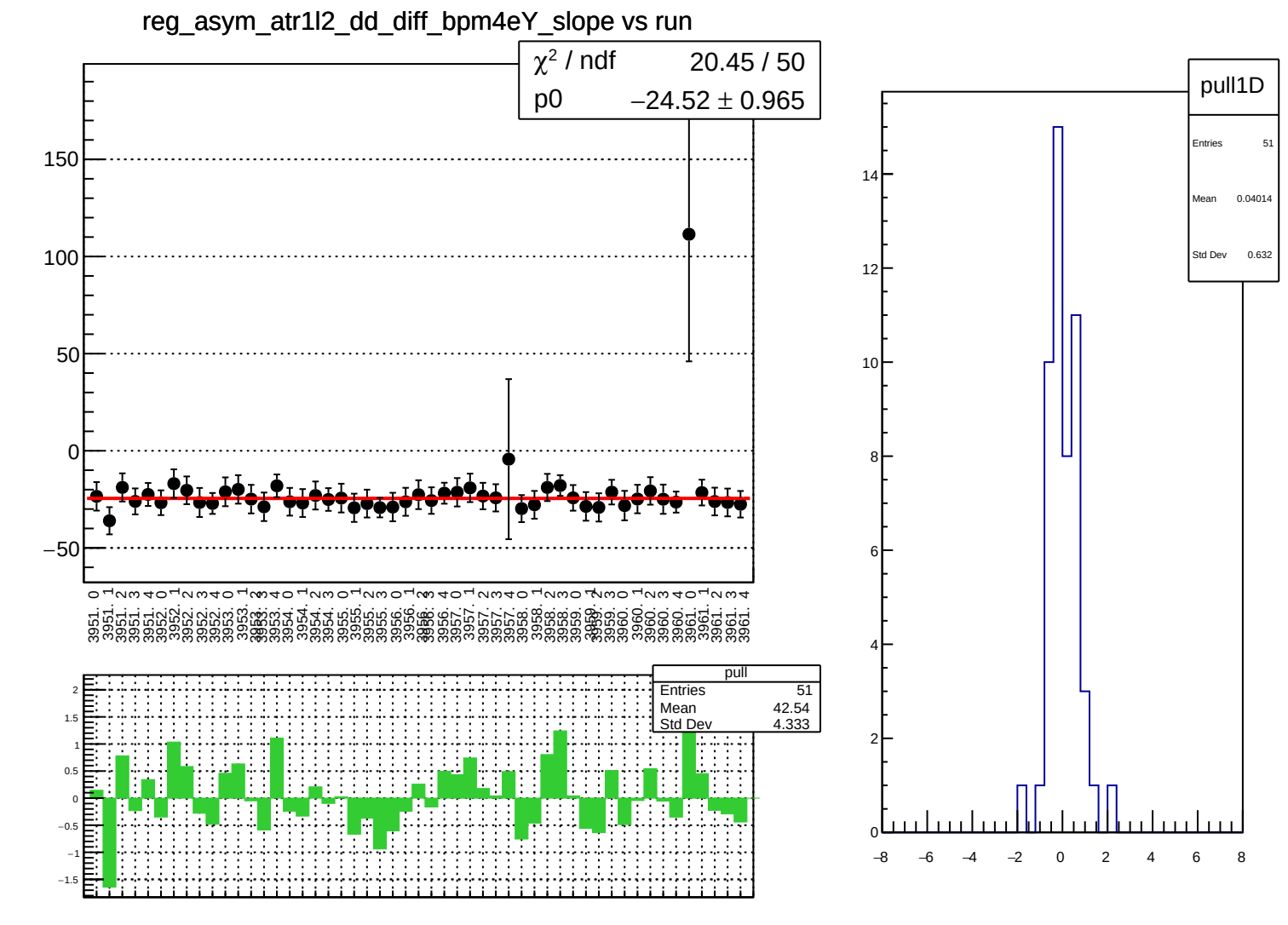

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.73 / 50
p0 5.42 ± 0.8418
pull
Entries 51
Mean 45.58
Std Dev 13.32

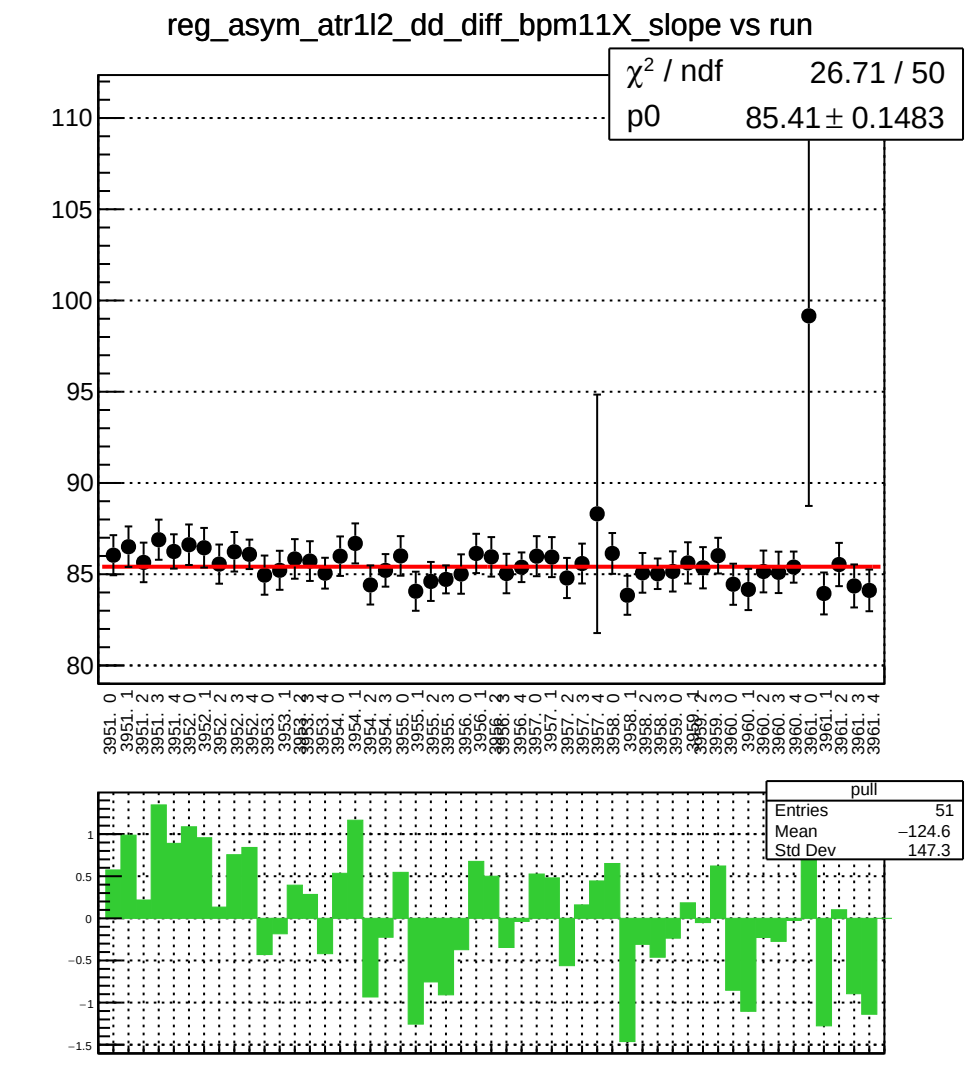

pull1D
Entries 51
Mean −0.0311
Std Dev 0.5179

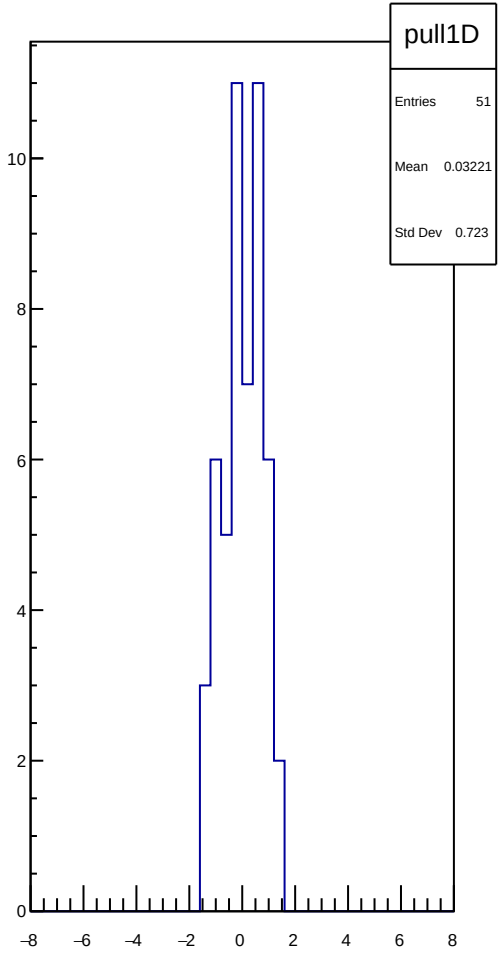

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.13 / 50
p0 −2.707 ± 0.5764
pull
Entries 51
Mean 66.37
Std Dev 38.43

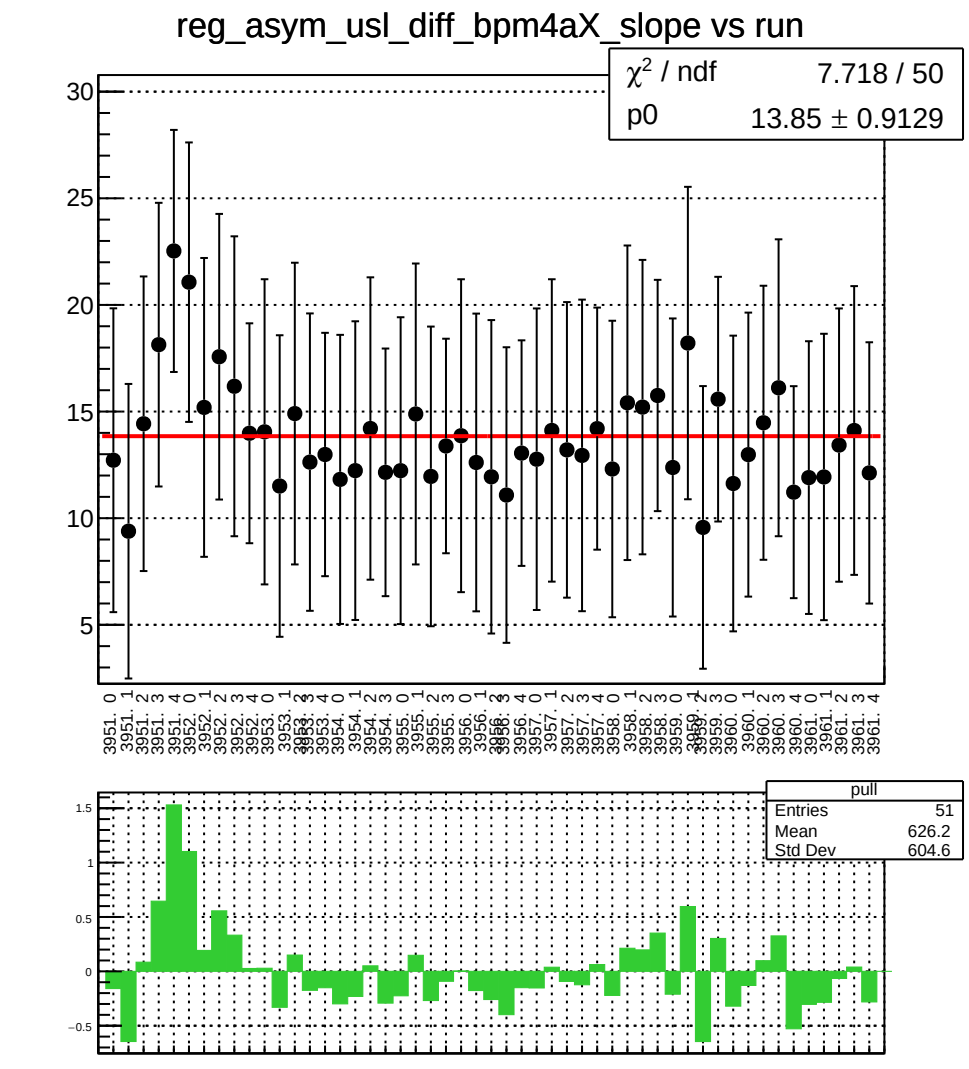

pull1D
Entries 51
Mean −0.03535
Std Dev 0.5952

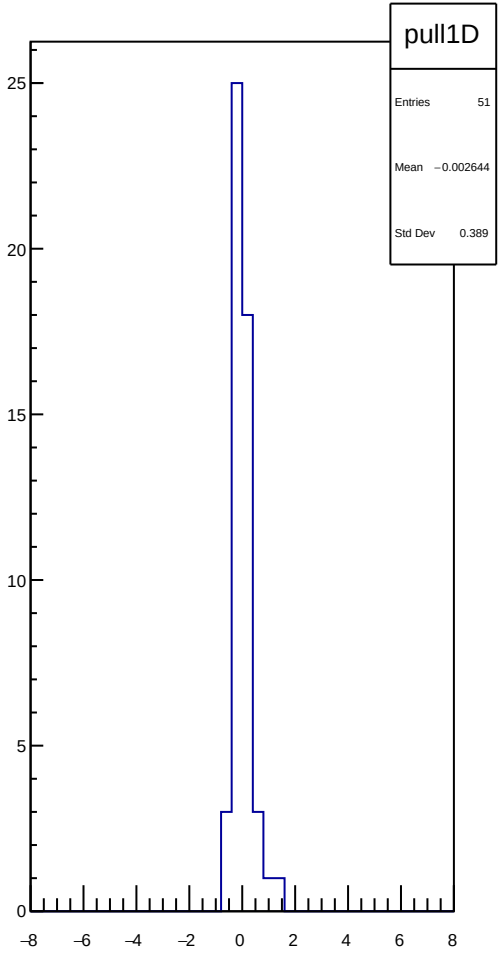

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.98 / 50
p0 8.858 ± 0.1437
pull
Entries 51
Mean 139
Std Dev 216
pull1D
Entries 51
Mean 0.004706
Std Dev 1.075

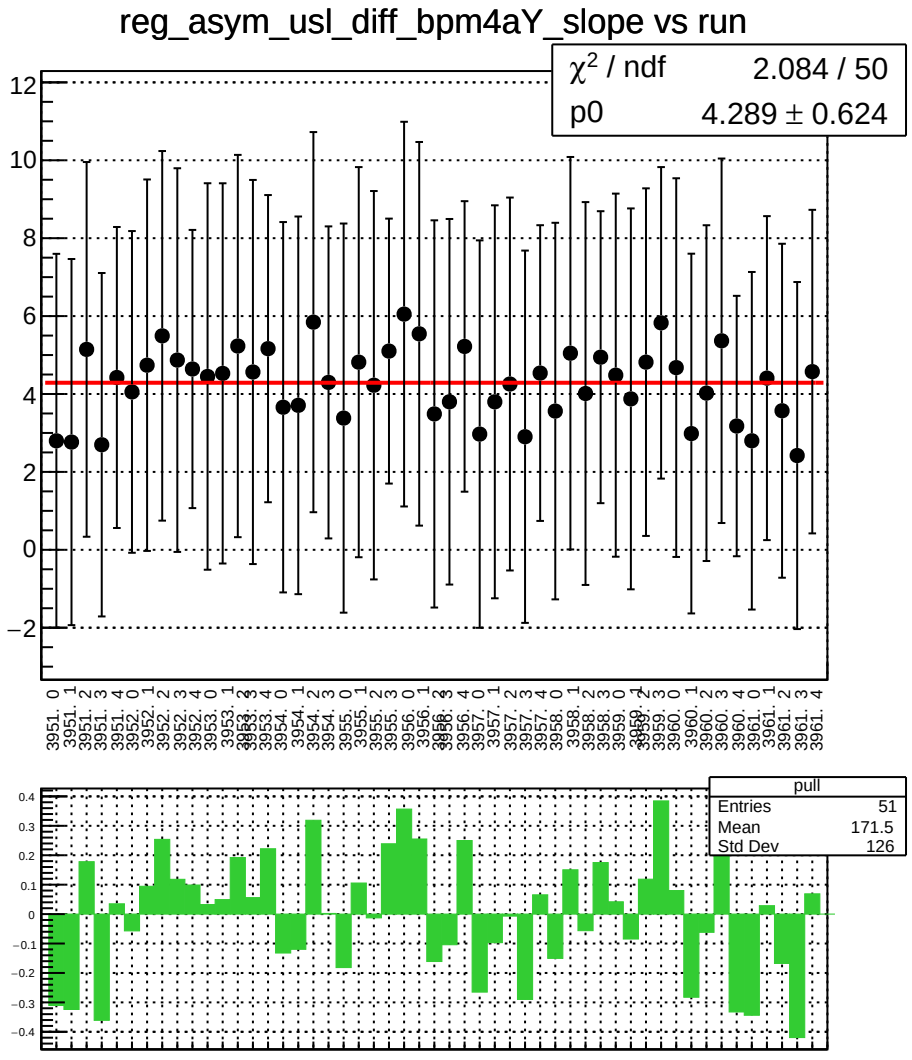

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.45 / 50
p0 −24.52 ± 0.965
150
100
50
0
−50
pull
Entries 51
Mean 42.54
Std Dev 4.333
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean 0.04014
Std Dev 0.632
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

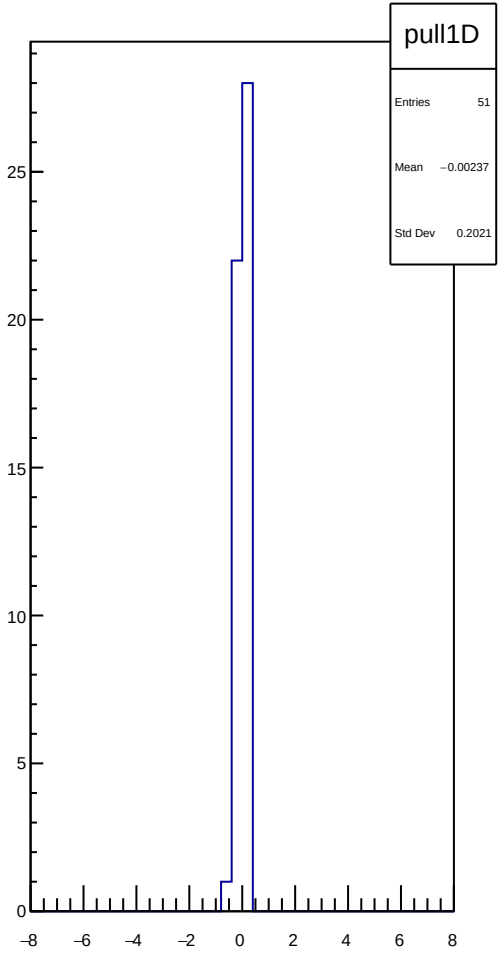

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 26.71 / 50
p0 85.41 ± 0.1483
110
105
100
95
90
85
80
pull
Entries 51
Mean −124.6
Std Dev 147.3
1
0.5
0
−0.5
−1
−1.5

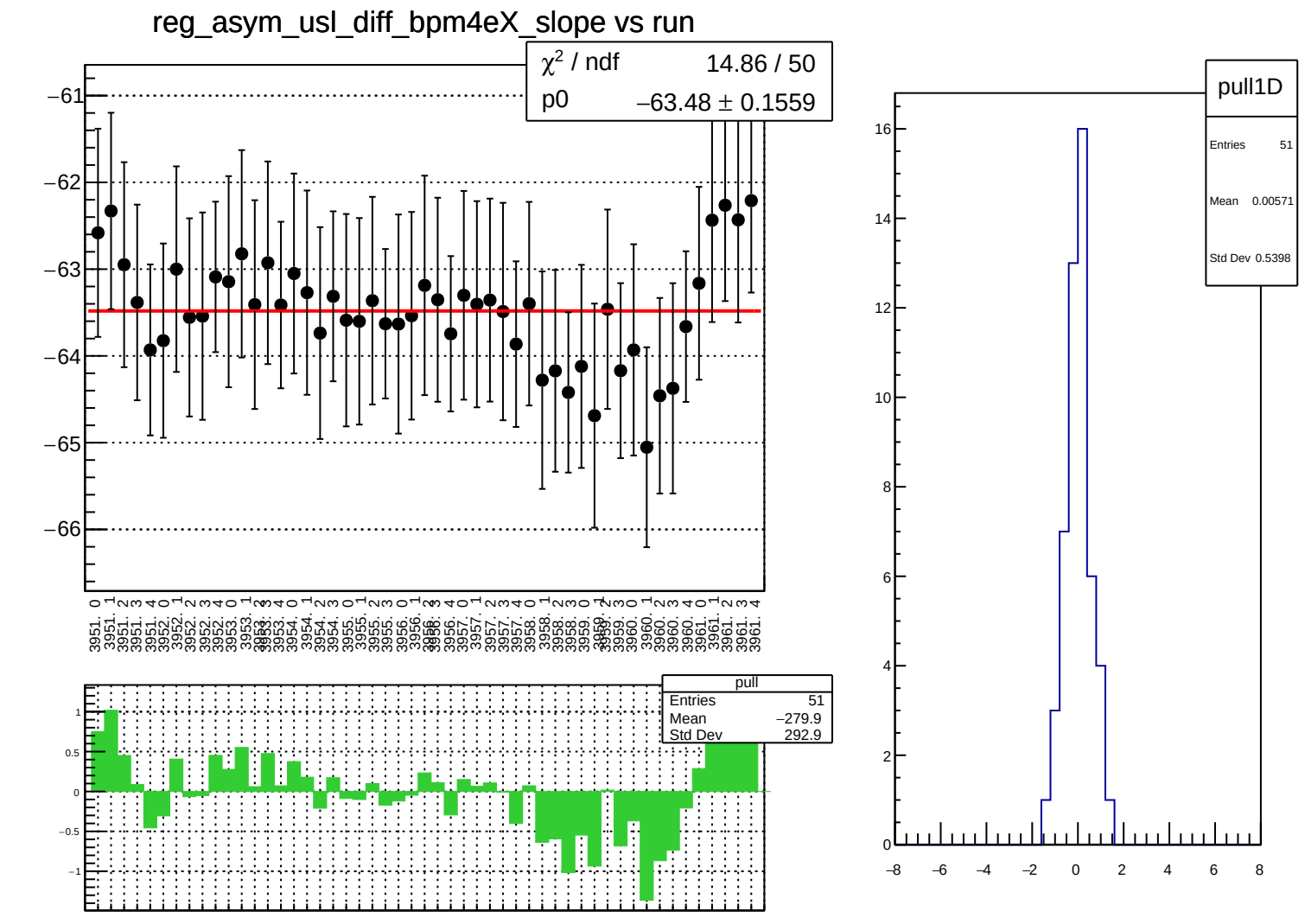

pull1D
Entries 51
Mean 0.03221
Std Dev 0.723
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

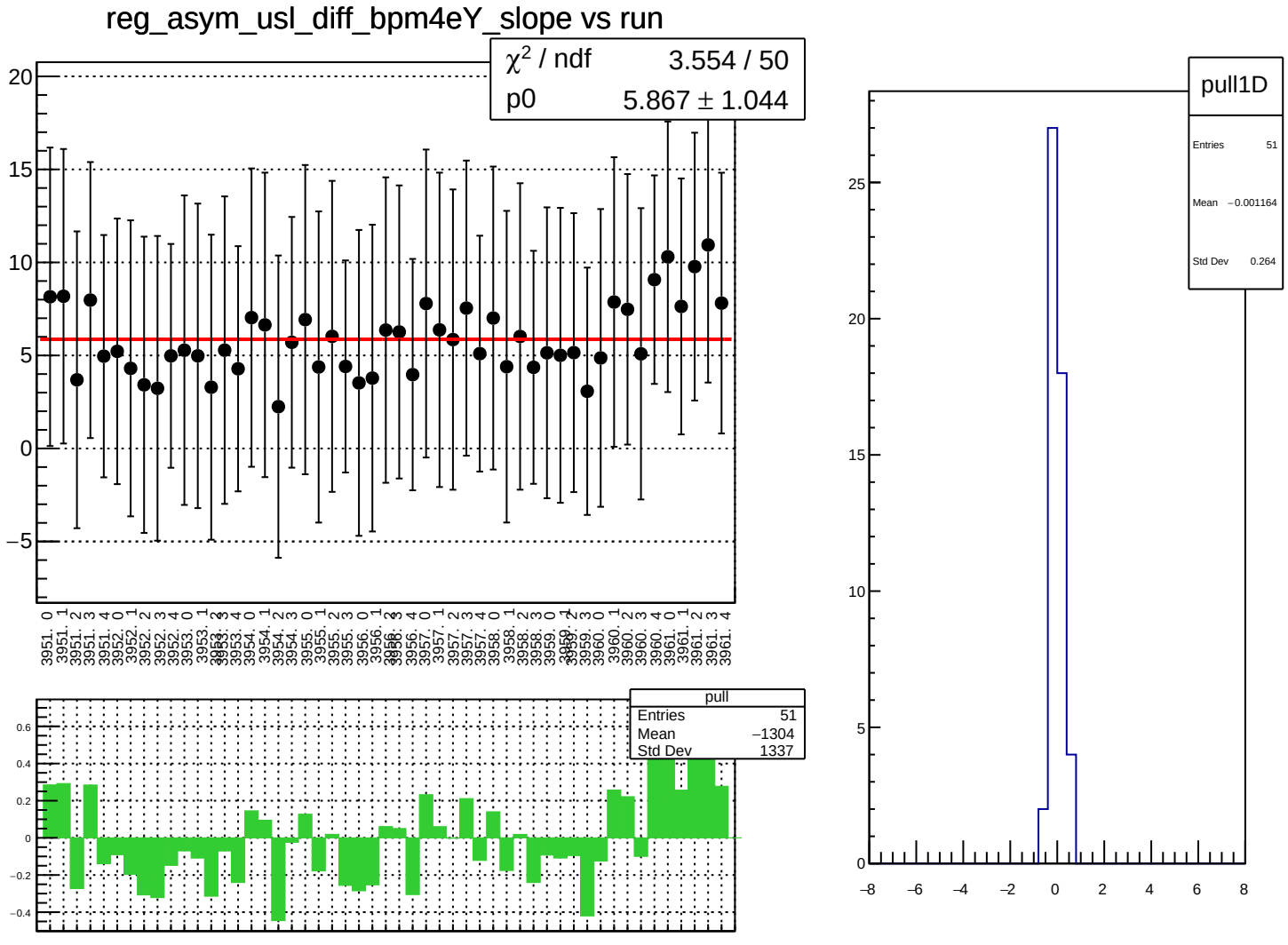

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 7.718 / 50
p0 13.85 ± 0.9129
pull
Entries 51
Mean 626.2
Std Dev 604.6

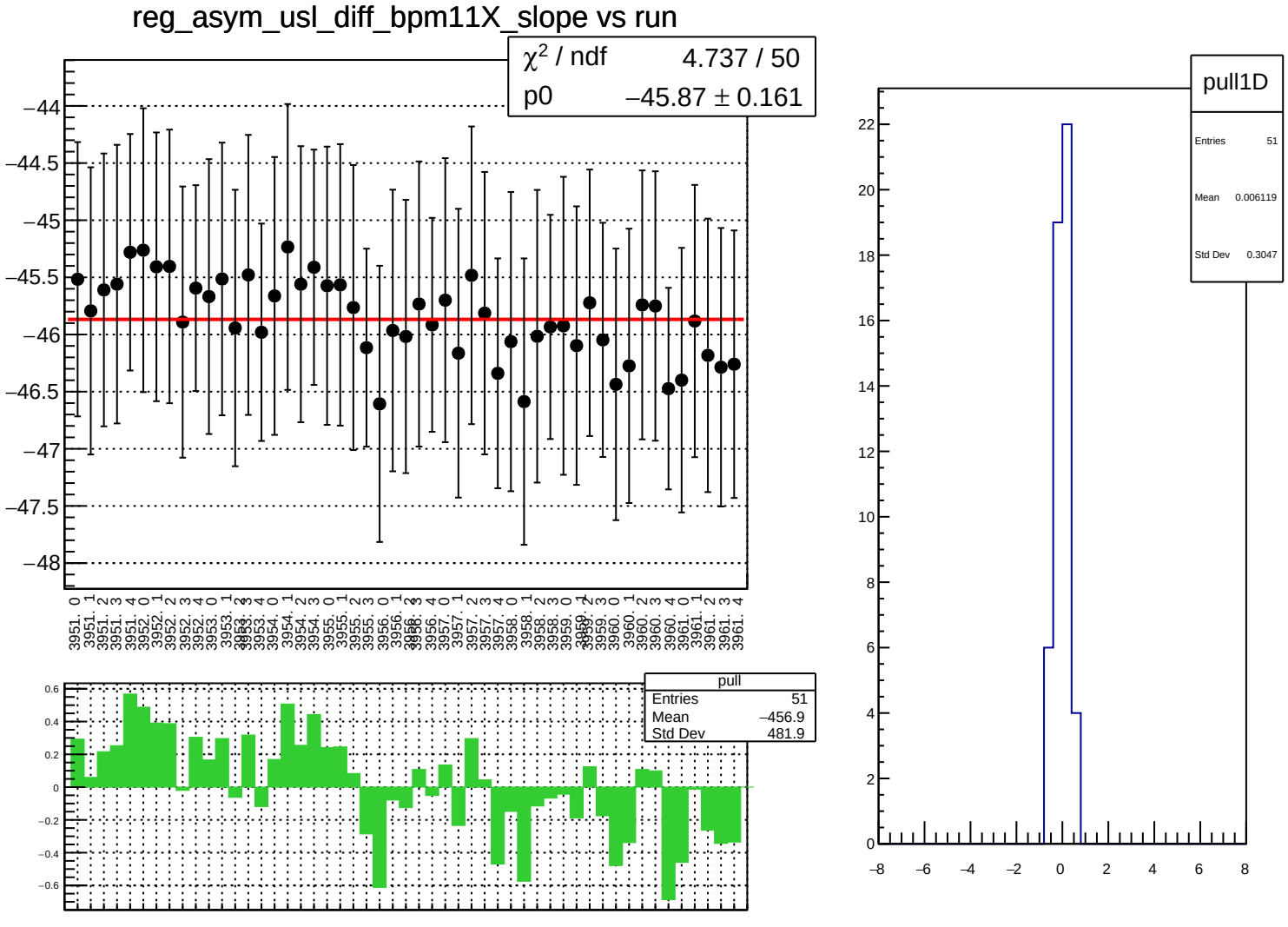

pull1D
Entries 51
Mean −0.002644
Std Dev 0.389

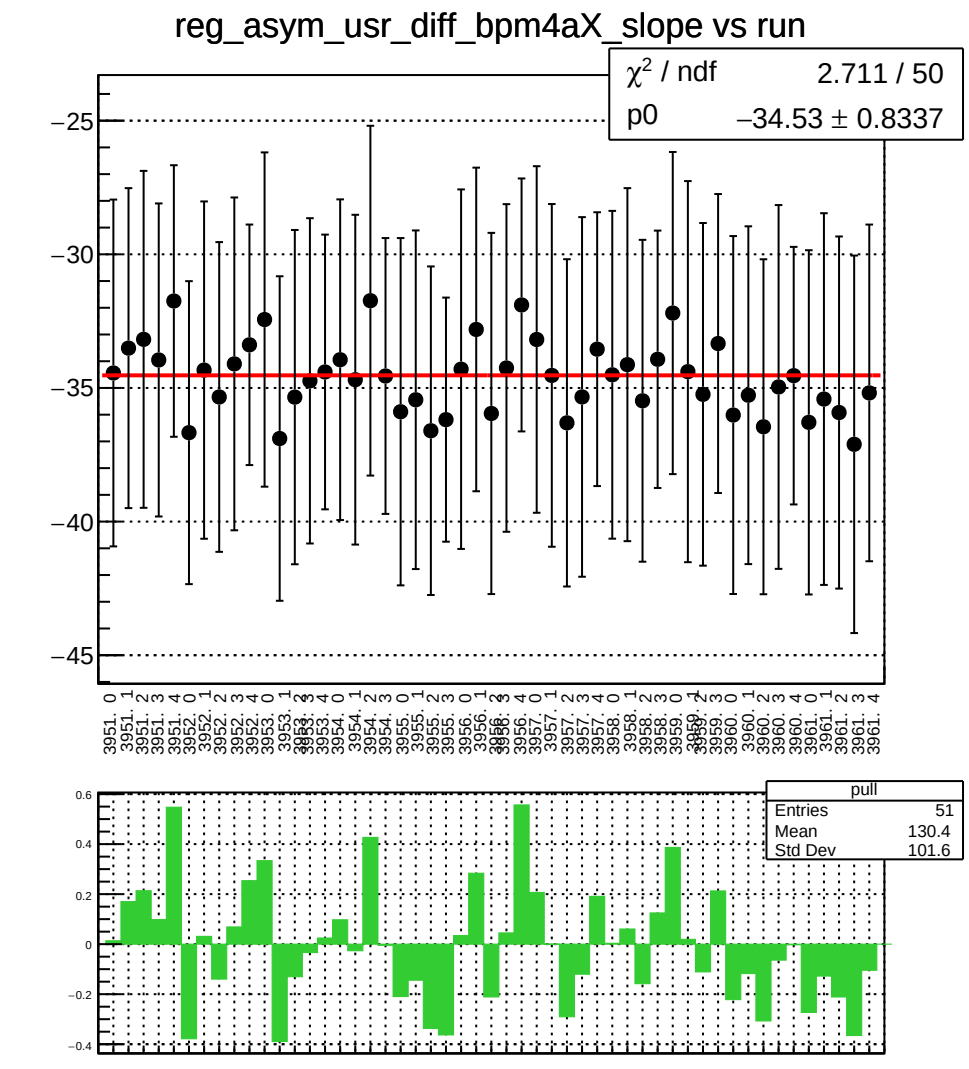

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 2.084 / 50
p0 4.289 ± 0.624
pull
Entries 51
Mean 171.5
Std Dev 126

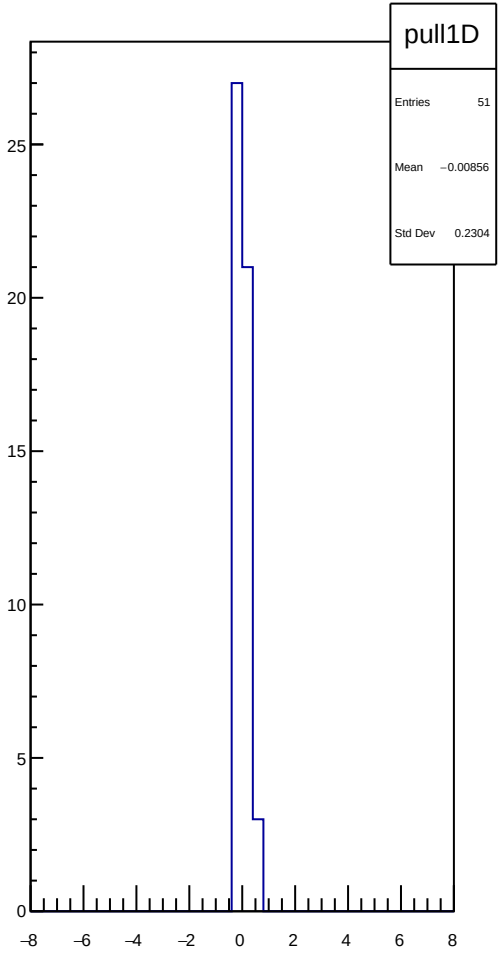

pull1D
Entries 51
Mean −0.00237
Std Dev 0.2021

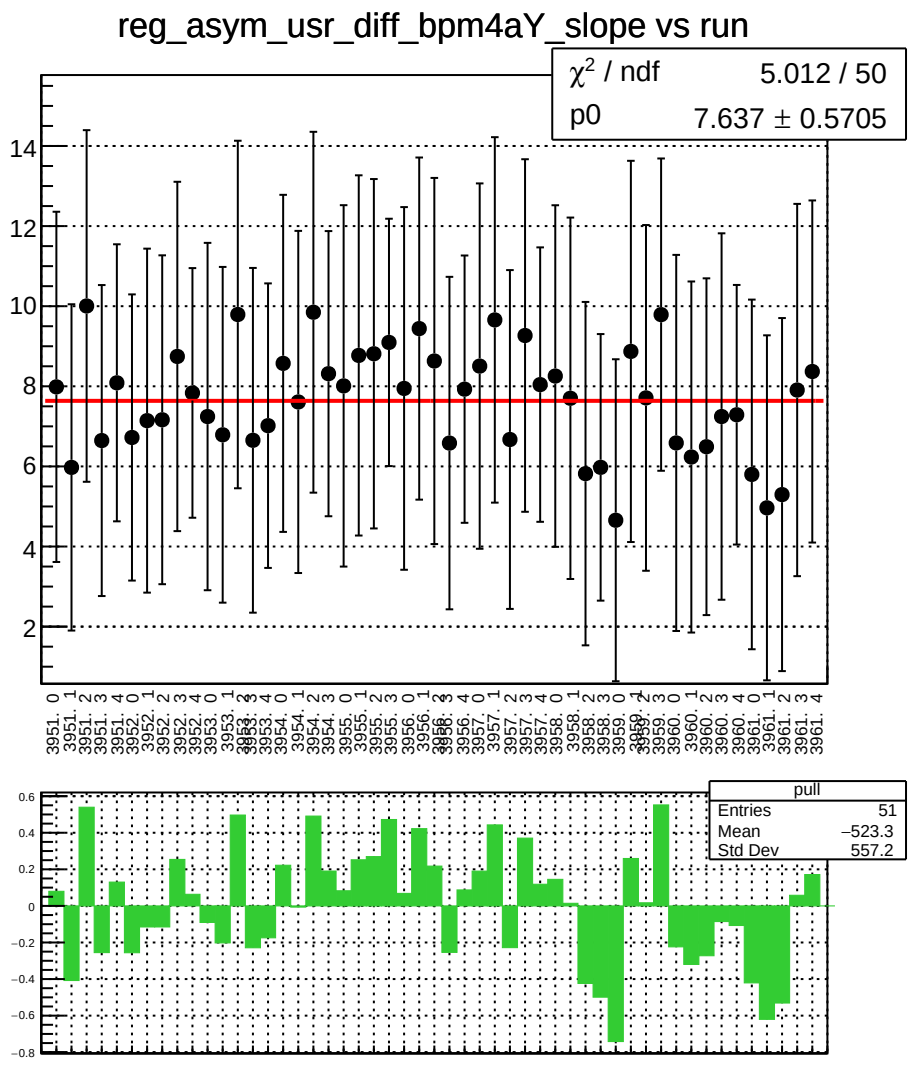

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 14.86 / 50
p0 −63.48 ± 0.1559
pull
Entries 51
Mean −279.9
Std Dev 292.9
pull1D
Entries 51
Mean 0.00571
Std Dev 0.5398

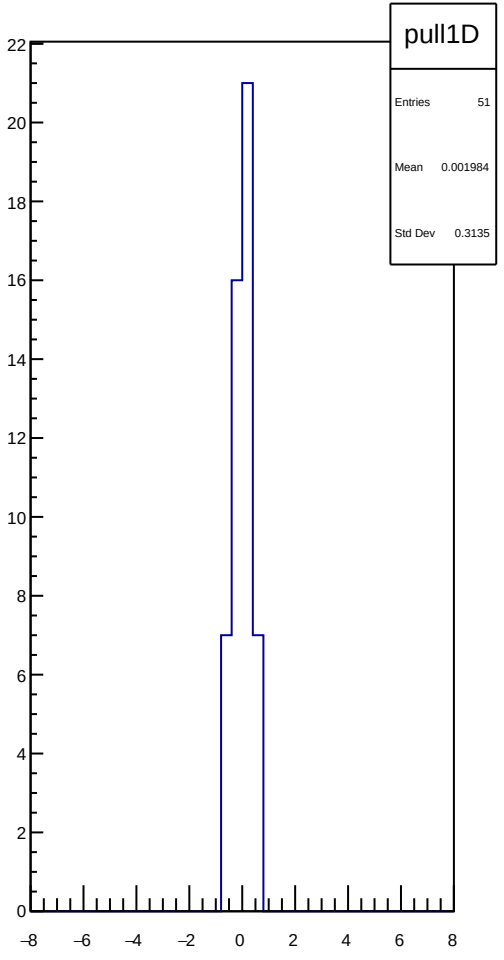

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.554 / 50
p0 5.867 ± 1.044
pull
Entries 51
Mean −1304
Std Dev 1337
pull1D
Entries 51
Mean −0.001164
Std Dev 0.264

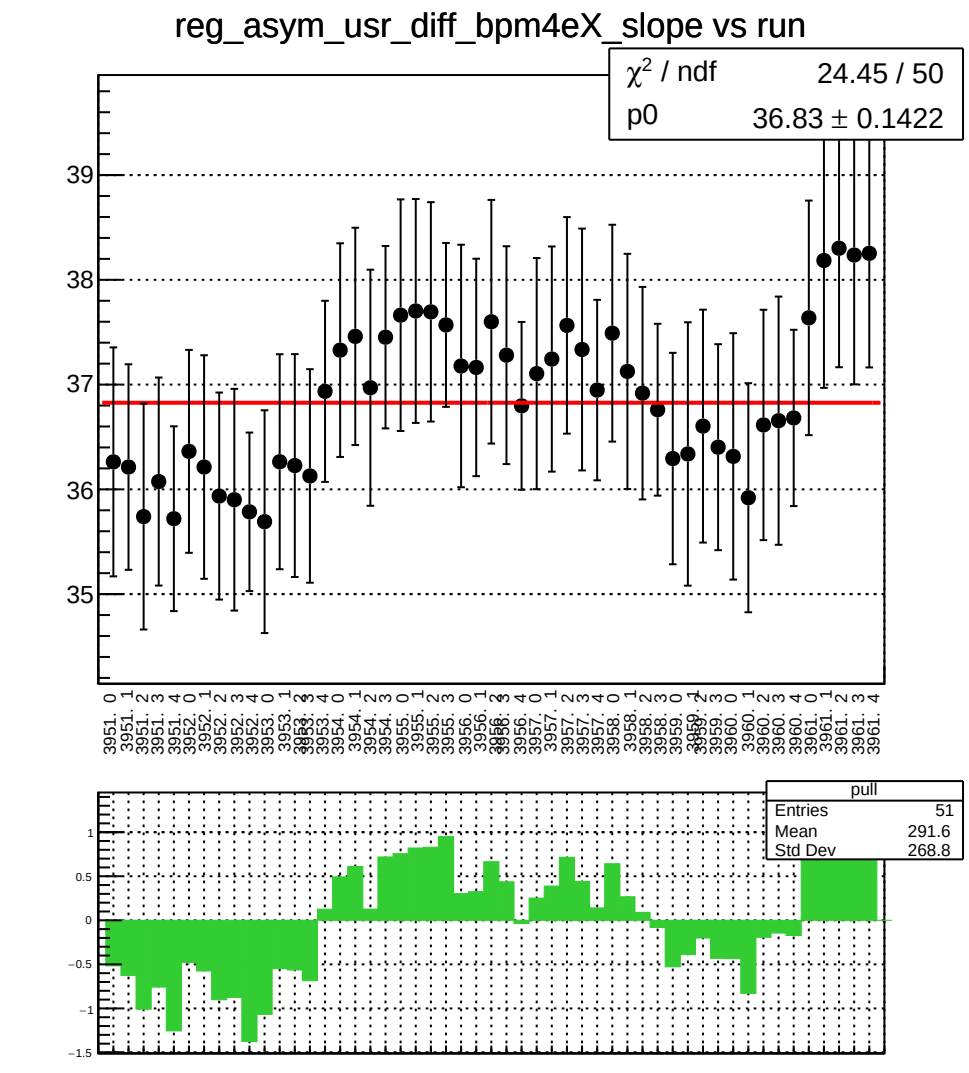

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 4.737 / 50
p0 −45.87 ± 0.161
pull
Entries 51
Mean −456.9
Std Dev 481.9
pull1D
Entries 51
Mean 0.006119
Std Dev 0.3047

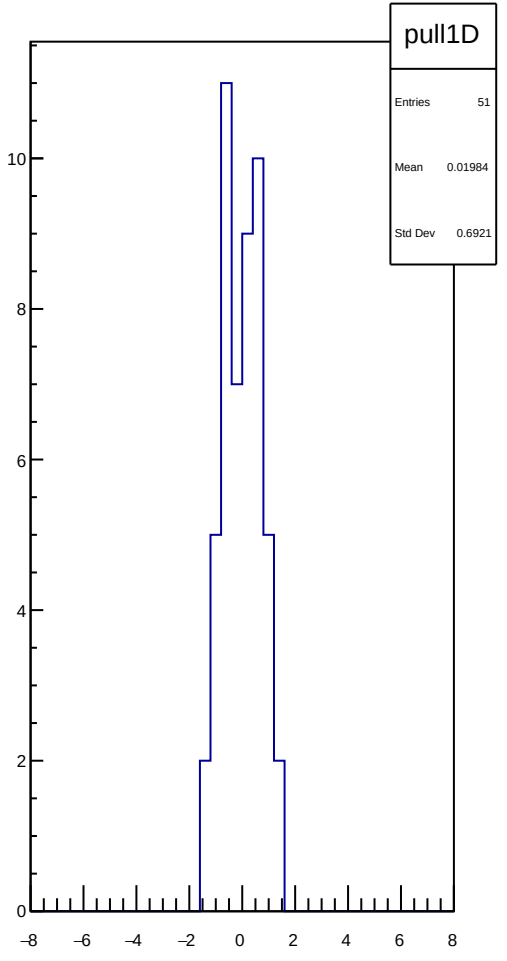

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 2.711 / 50
p0 −34.53 ± 0.8337
pull
Entries 51
Mean 130.4
Std Dev 101.6

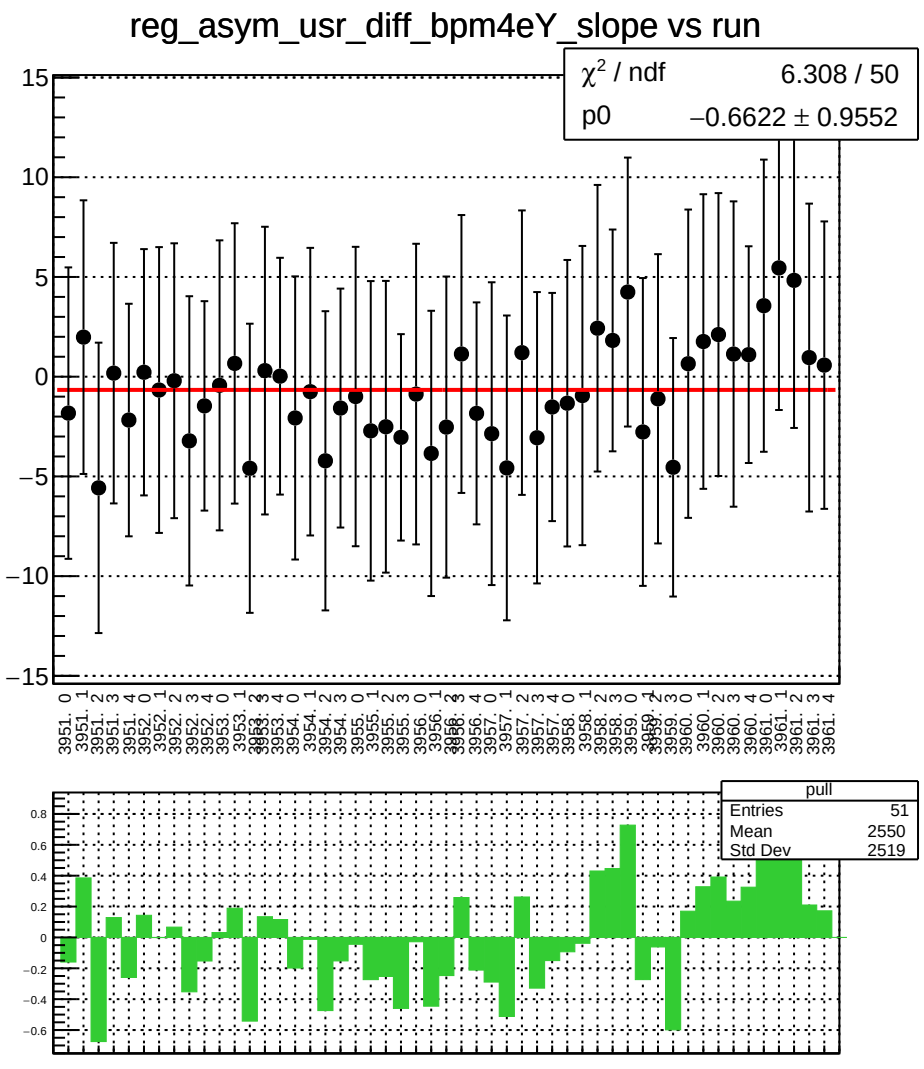

pull1D
Entries 51
Mean −0.00856
Std Dev 0.2304

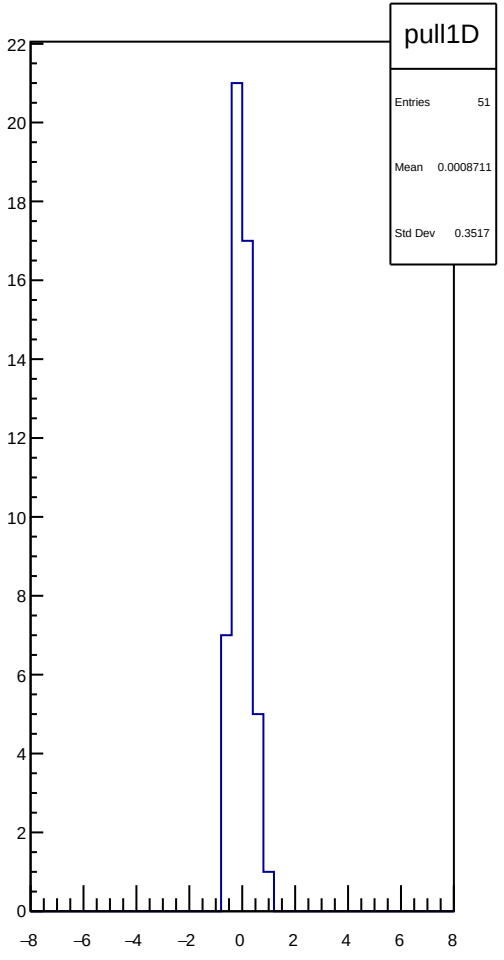

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 5.012 / 50
p0 7.637 ± 0.5705
pull
Entries 51
Mean −523.3
Std Dev 557.2

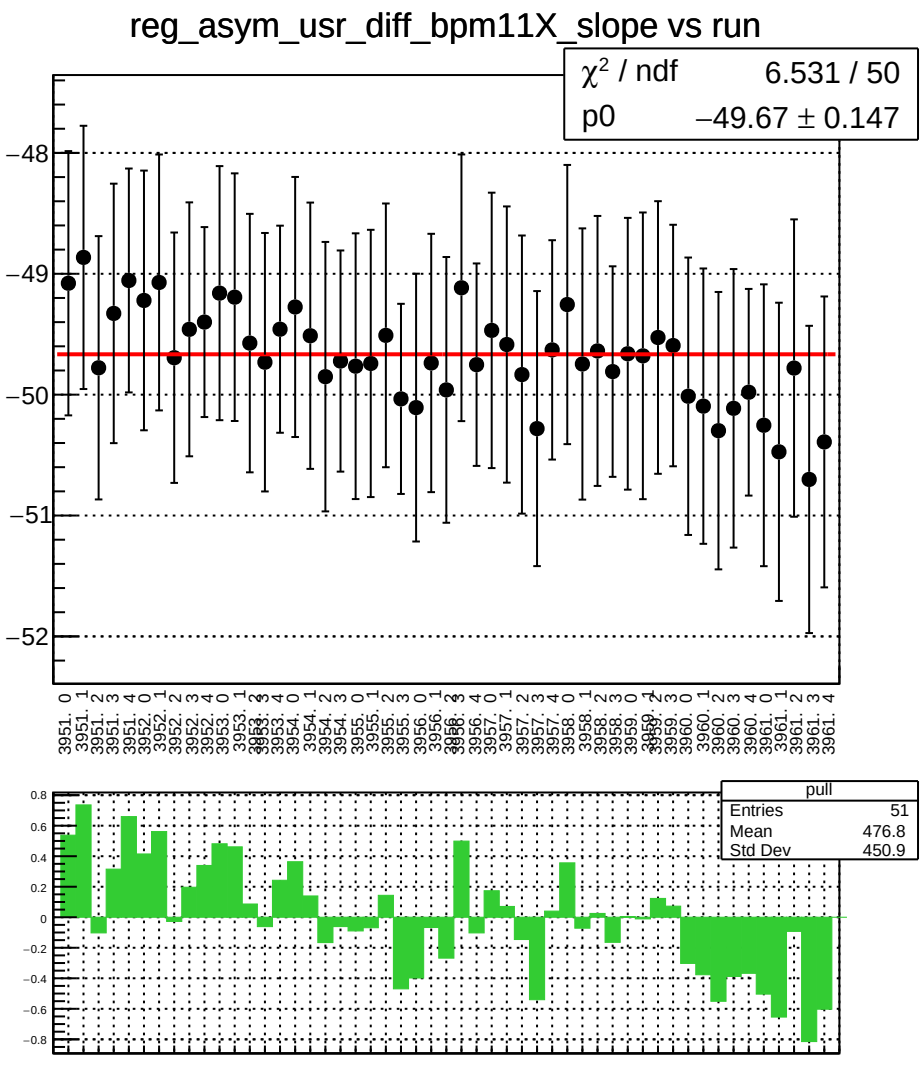

pull1D
Entries 51
Mean 0.001984
Std Dev 0.3135

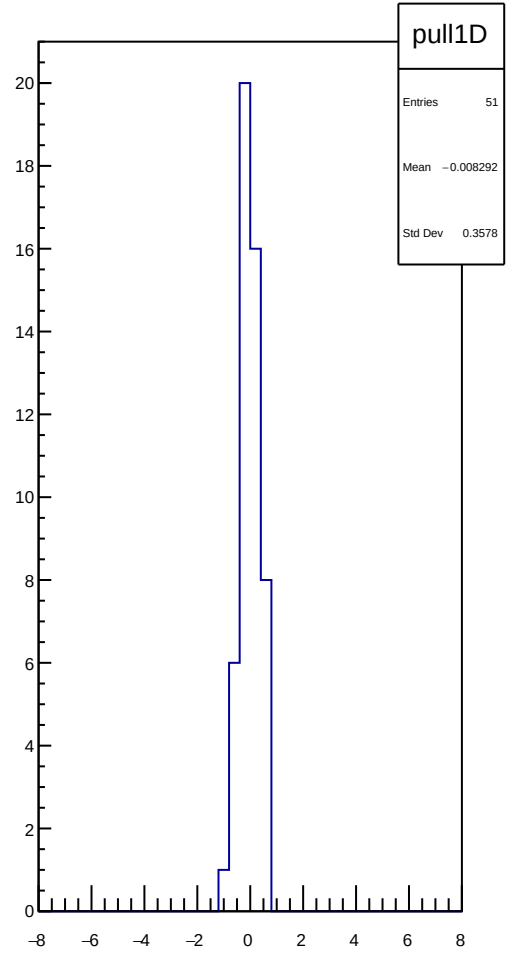

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 24.45 / 50
p0 36.83 ± 0.1422
39
38
37
36
35
pull
Entries 51
Mean 291.6
Std Dev 268.8
1
0.5
0
−0.5
−1
−1.5

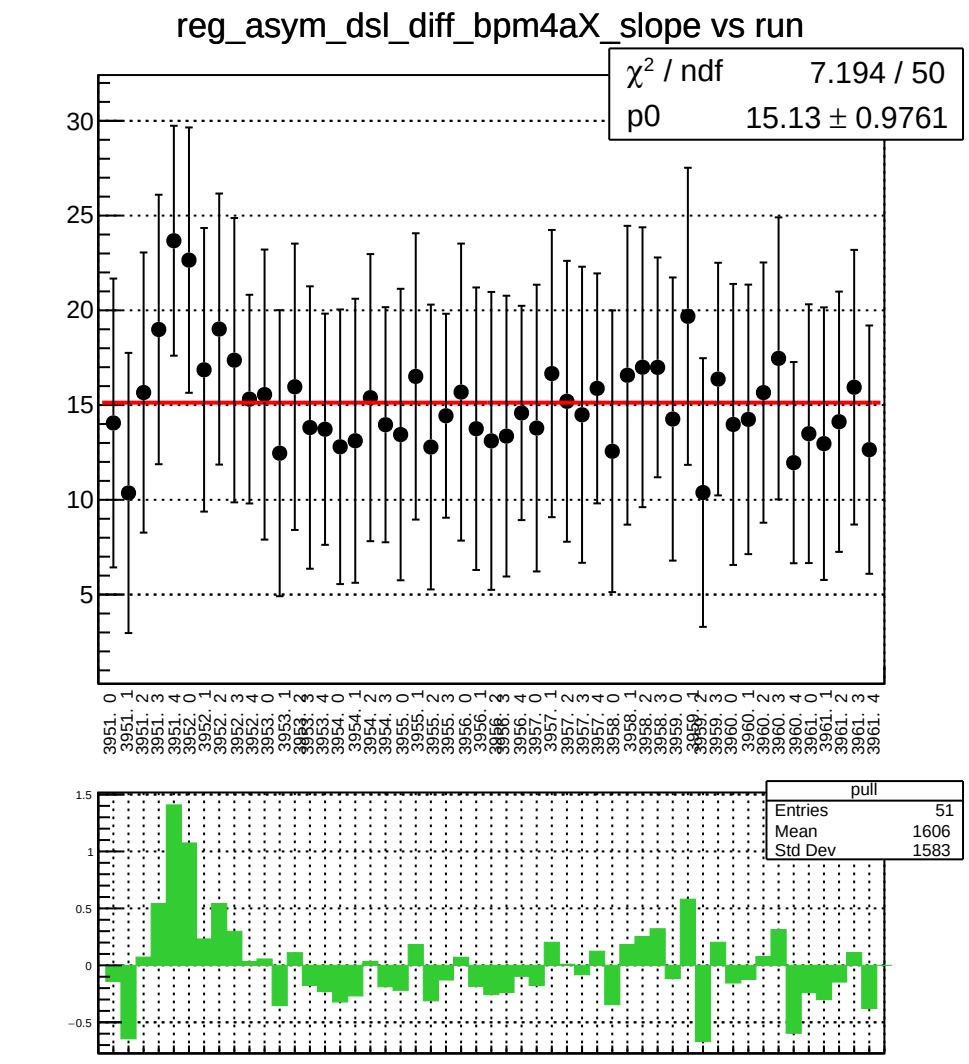

pull1D
Entries 51
Mean 0.01984
Std Dev 0.6921
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

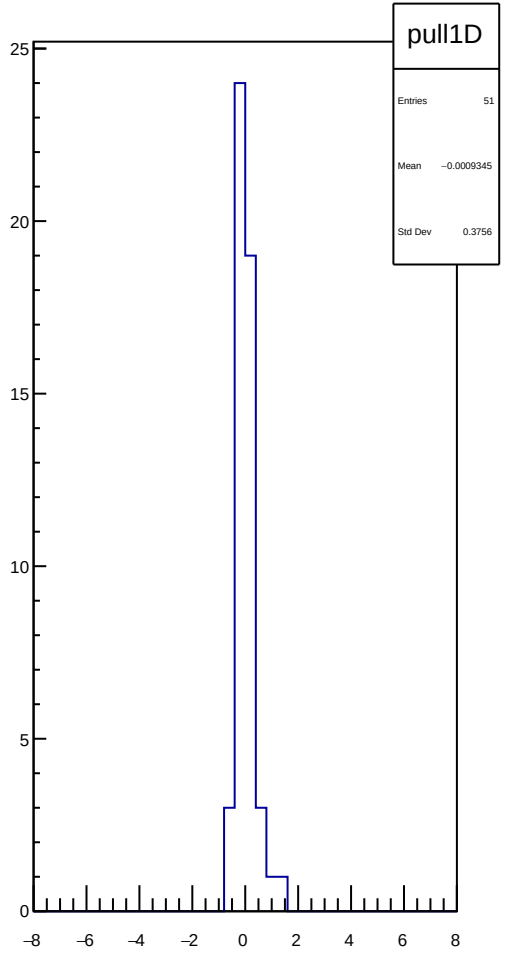

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 6.308 / 50
p0 −0.6622 ± 0.9552
pull
Entries 51
Mean 2550
Std Dev 2519

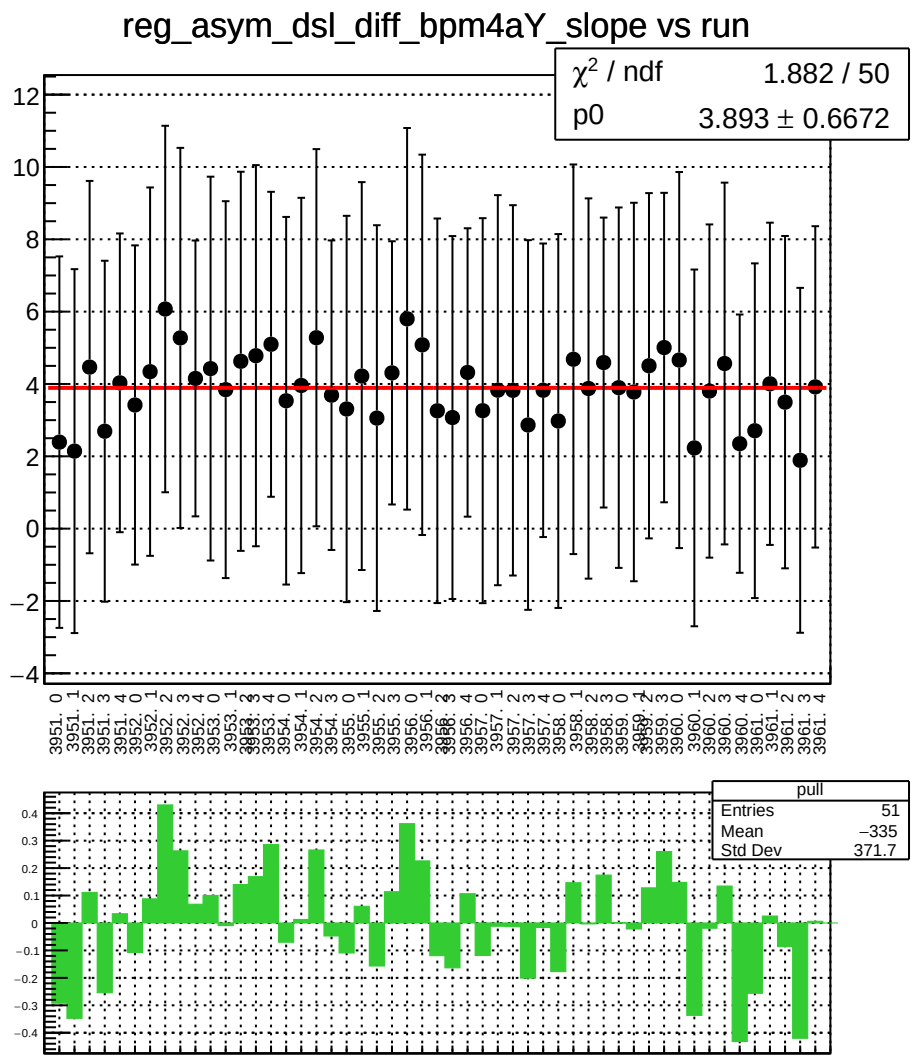

pull1D
Entries 51
Mean 0.0008711
Std Dev 0.3517

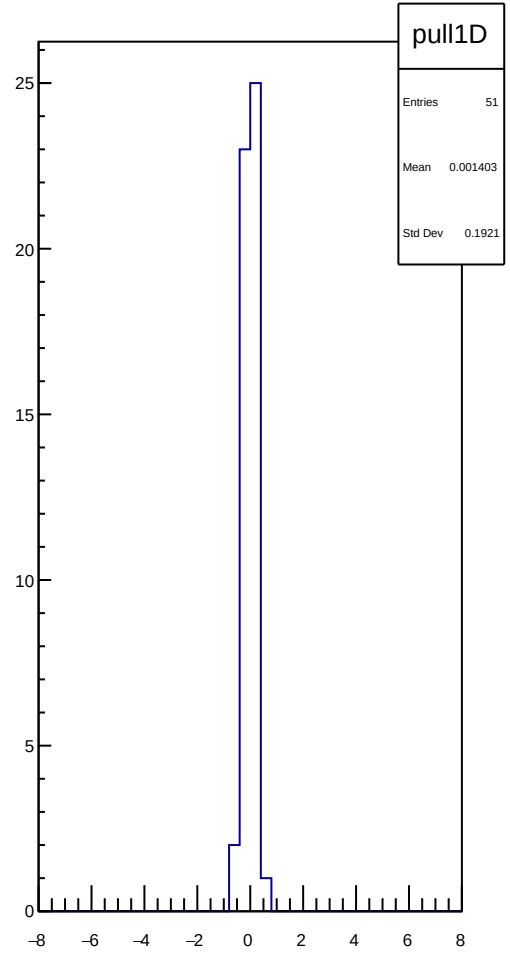

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 6.531 / 50
p0 −49.67 ± 0.147
pull
Entries 51
Mean 476.8
Std Dev 450.9

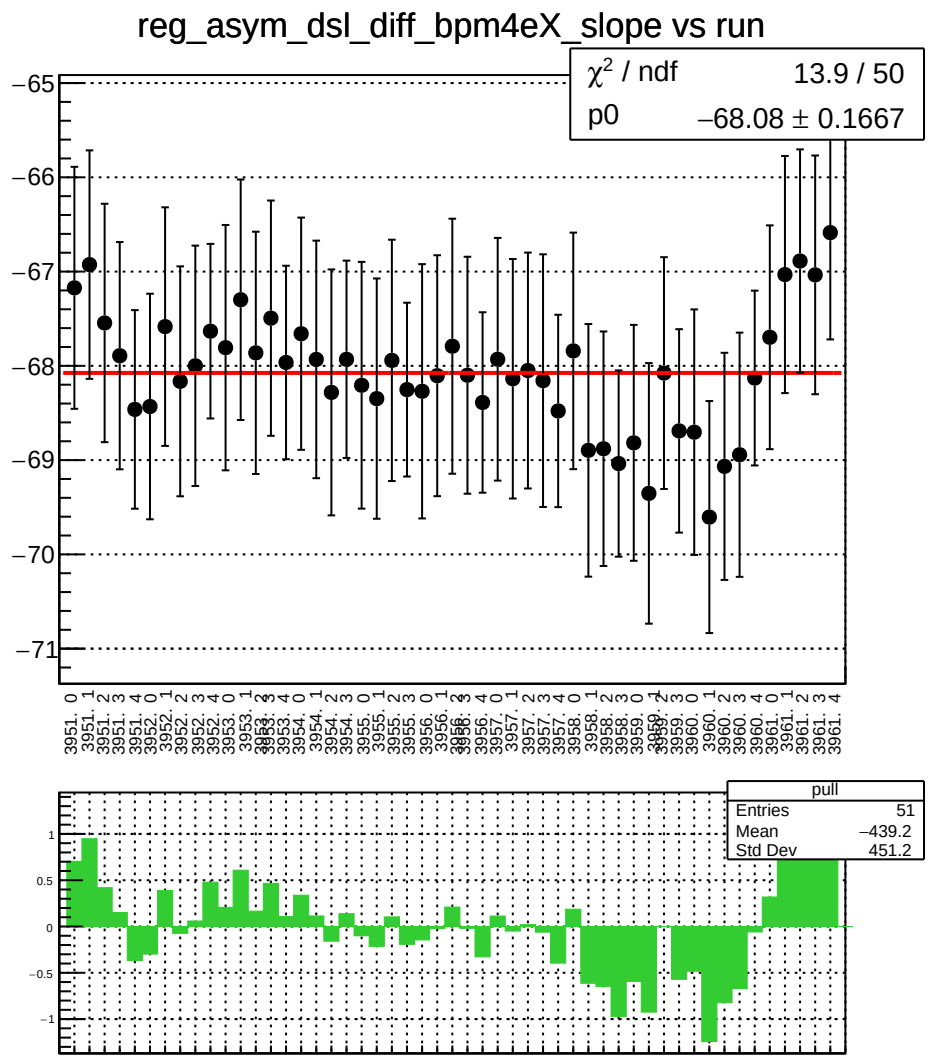

pull1D
Entries 51
Mean −0.008292
Std Dev 0.3578

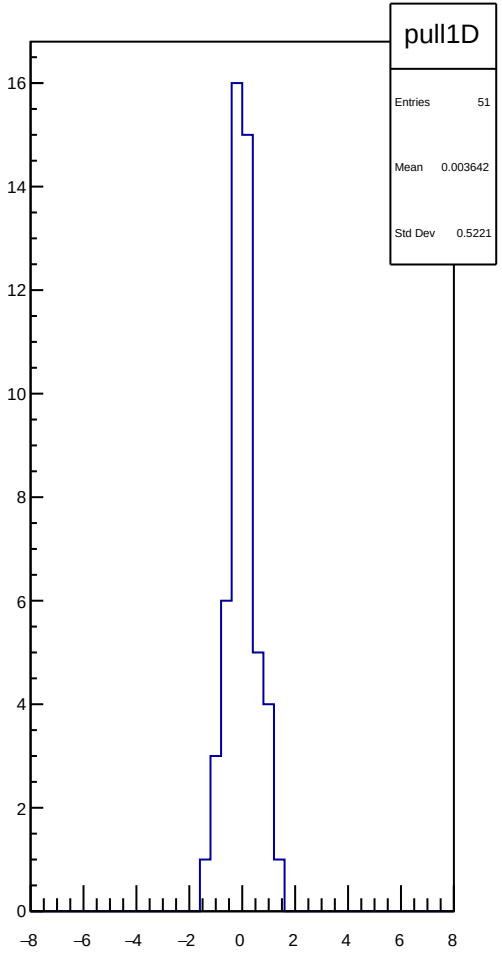

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 7.194 / 50
p0 15.13 ± 0.9761
pull
Entries 51
Mean 1606
Std Dev 1583

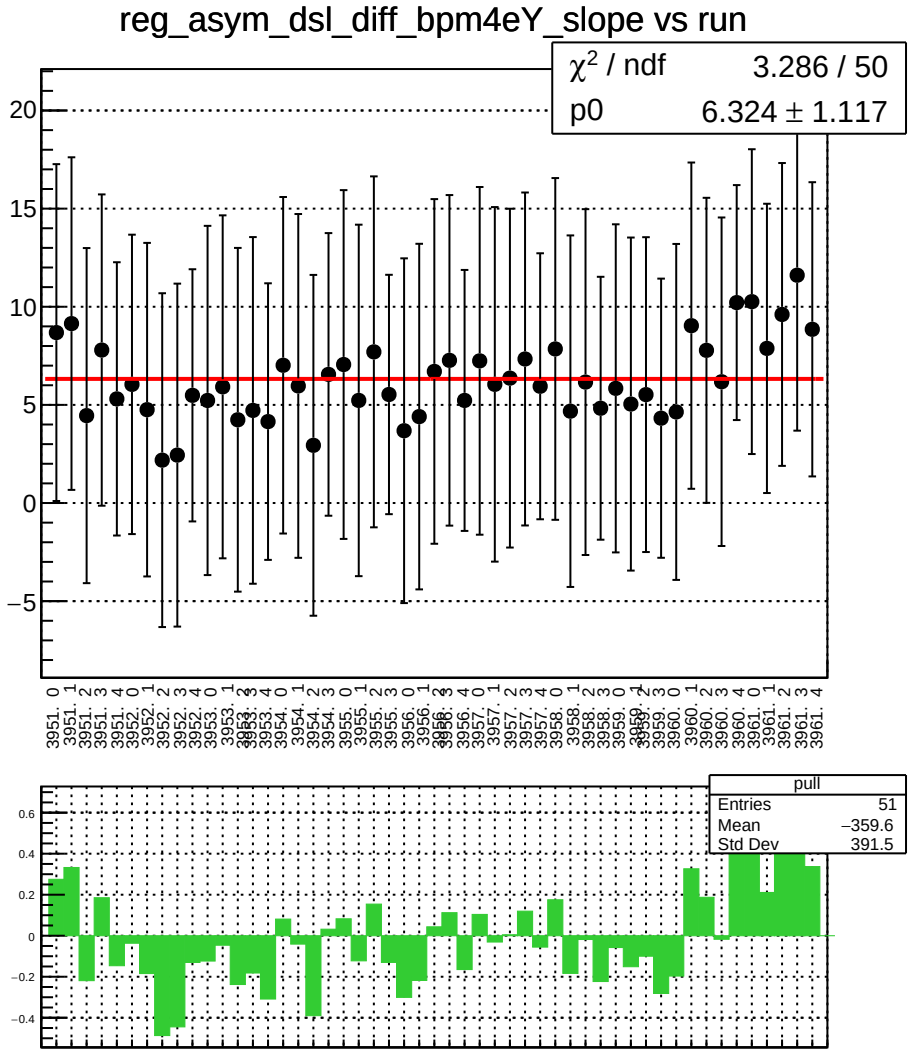

pull1D
Entries 51
Mean −0.0009345
Std Dev 0.3756

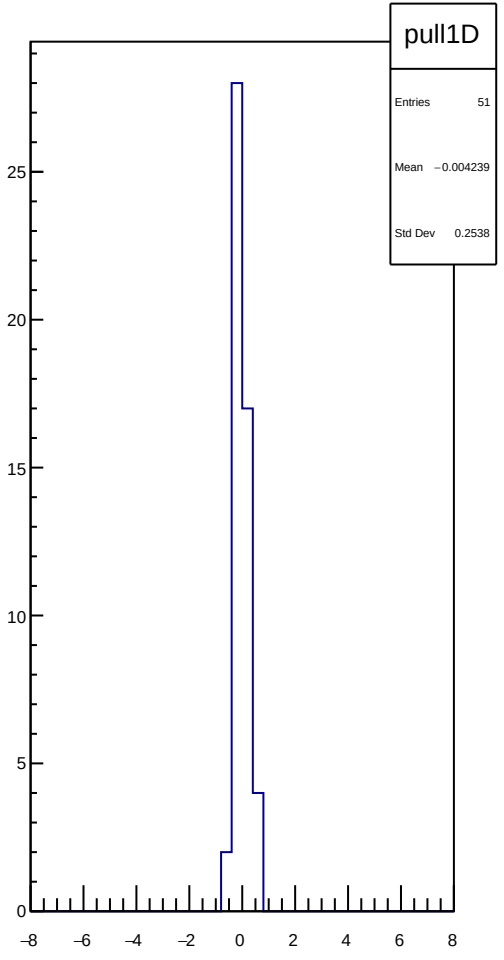

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 1.882 / 50
p0 3.893 ± 0.6672
pull
Entries 51
Mean −335
Std Dev 371.7

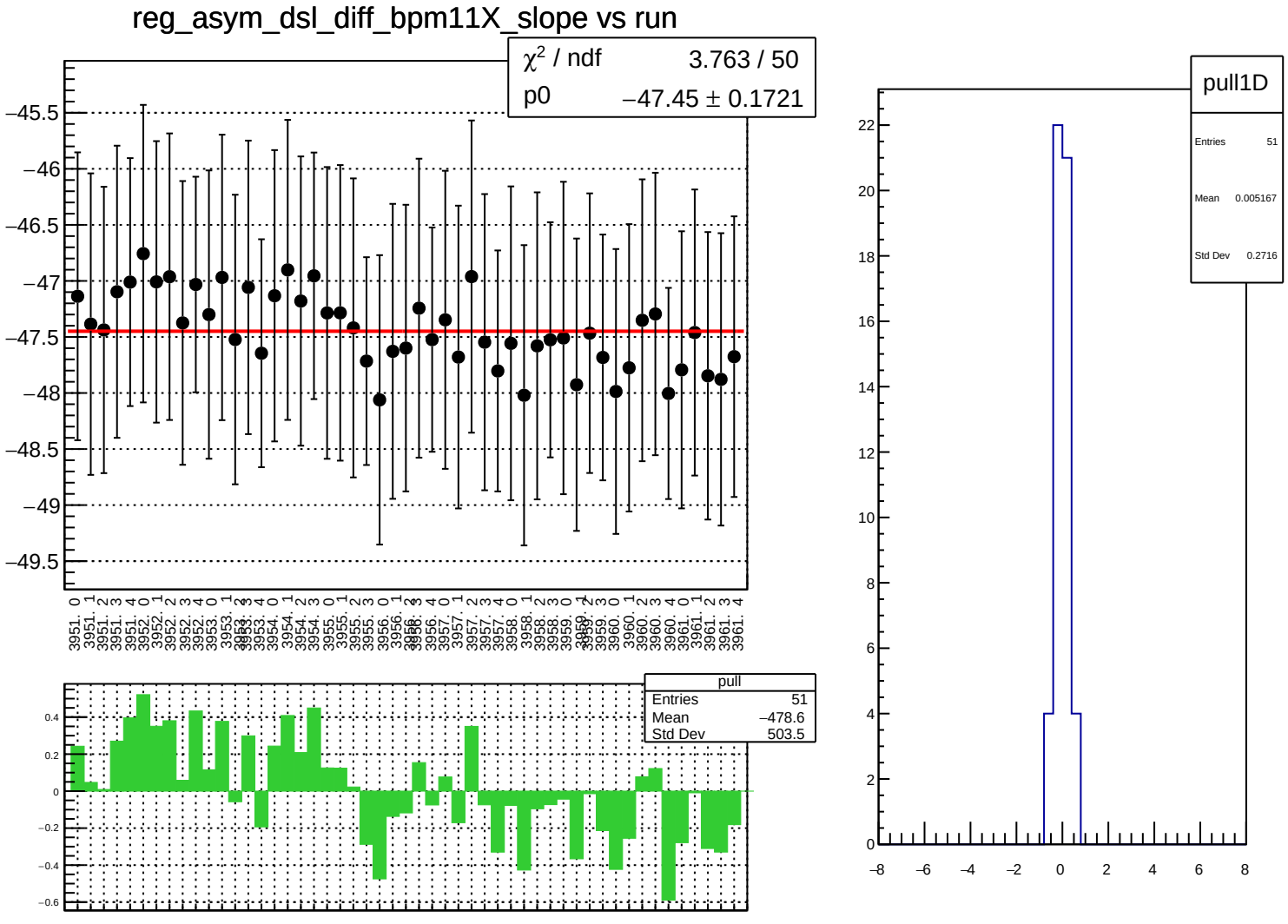

pull1D
Entries 51
Mean 0.001403
Std Dev 0.1921

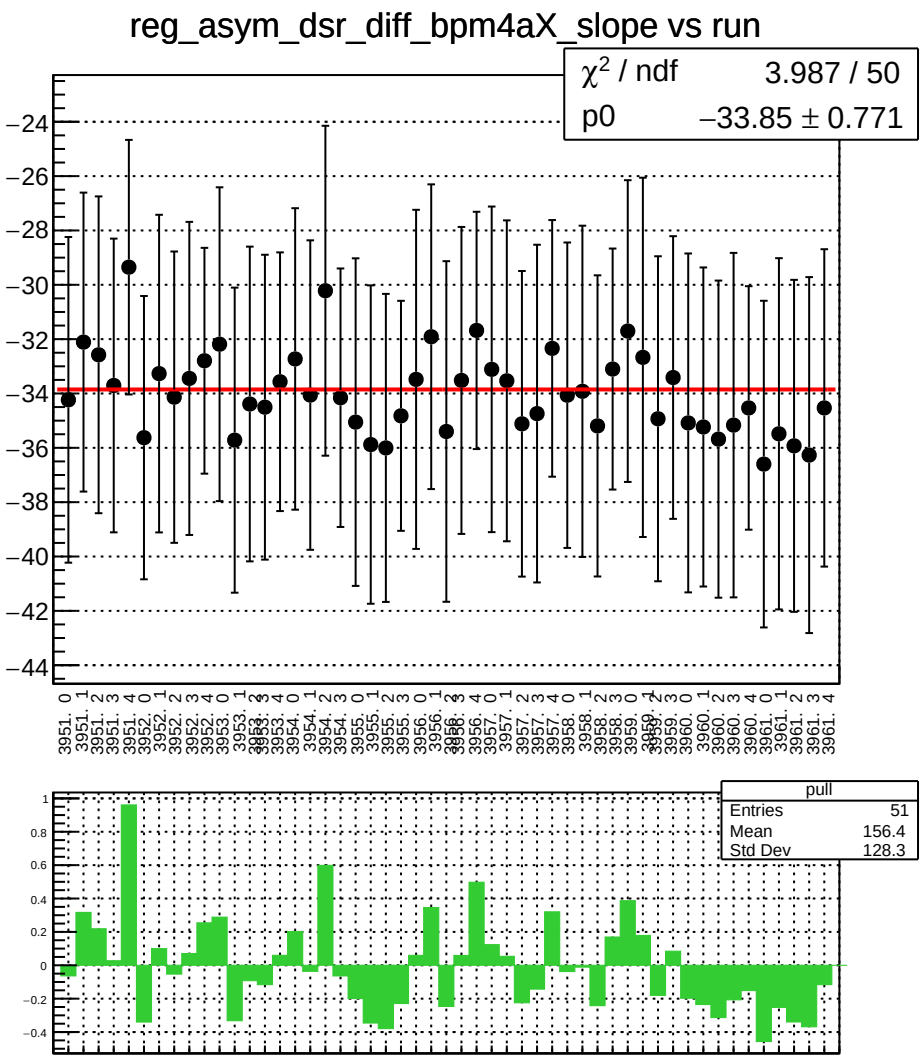

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 13.9 / 50
p0 −68.08 ± 0.1667
pull
Entries 51
Mean −439.2
Std Dev 451.2

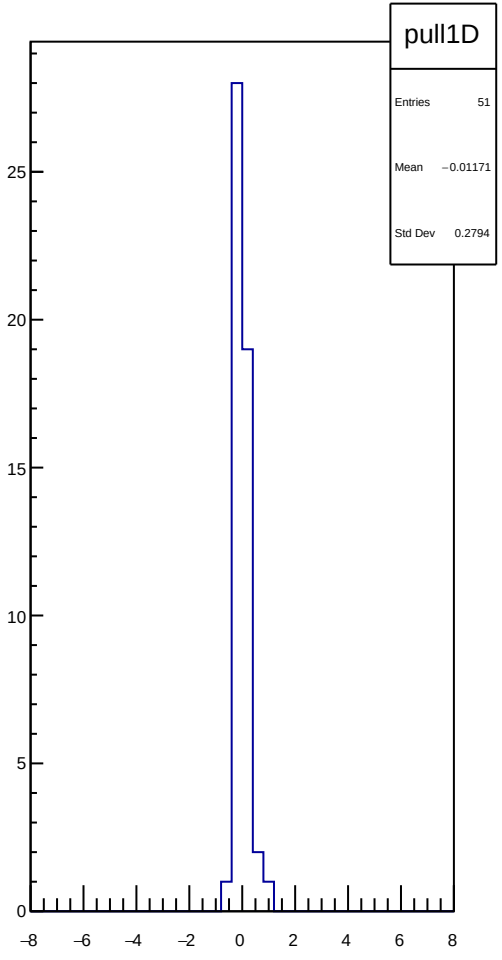

pull1D
Entries 51
Mean 0.003642
Std Dev 0.5221

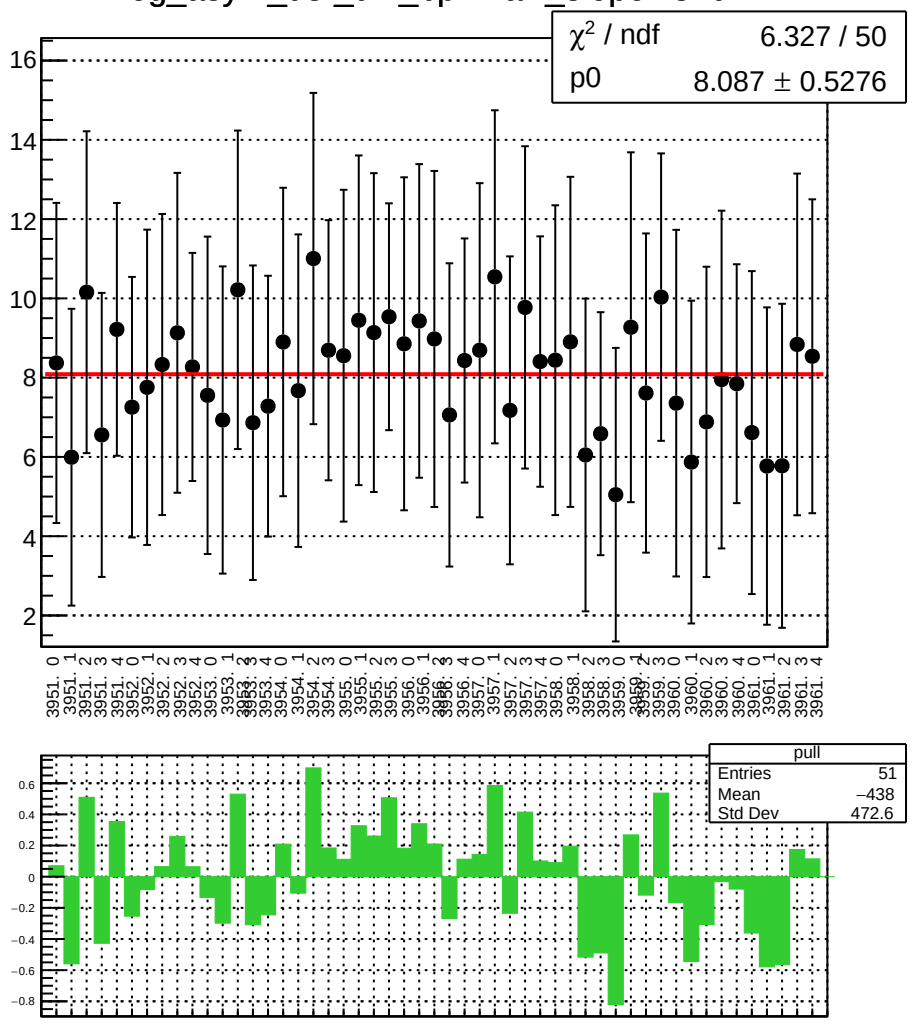

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 3.286 / 50
p0 6.324 ± 1.117
pull
Entries 51
Mean −359.6
Std Dev 391.5

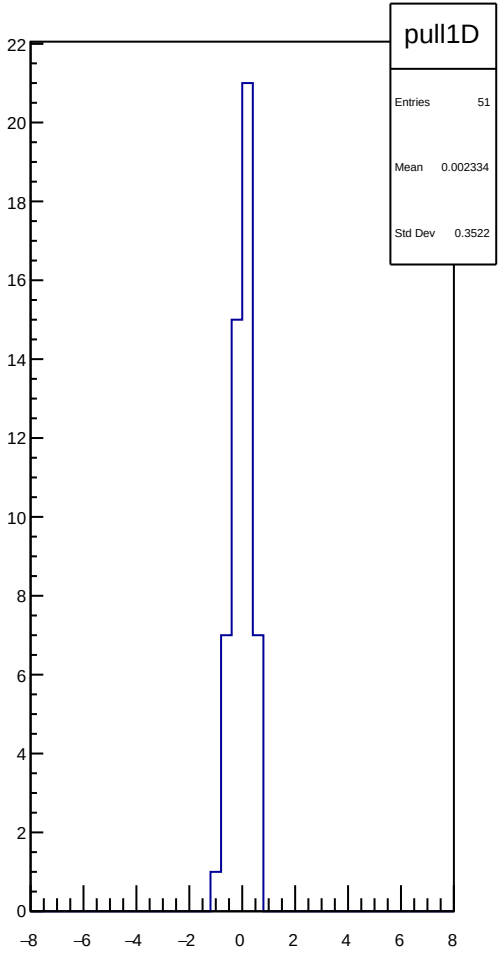

pull1D
Entries 51
Mean −0.004239
Std Dev 0.2538

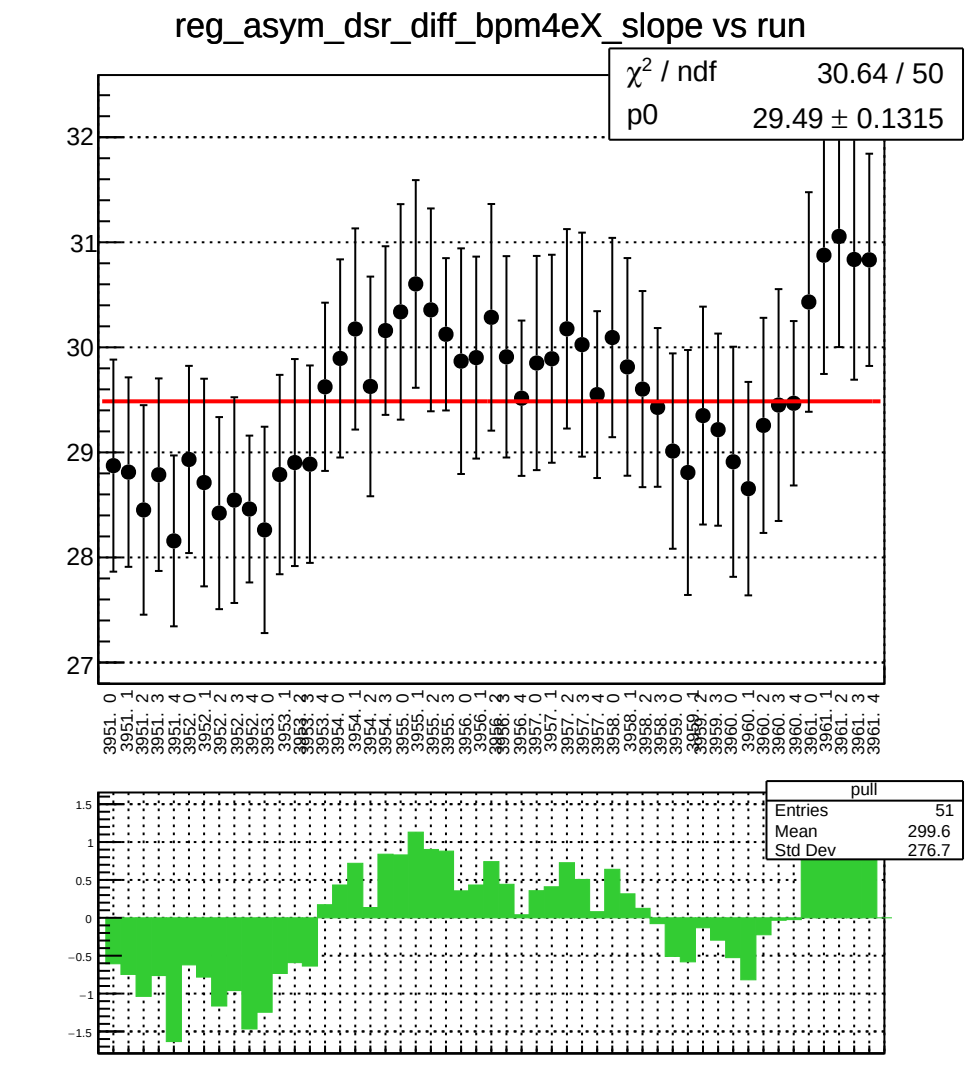

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 3.763 / 50
p0 −47.45 ± 0.1721
pull
Entries 51
Mean −478.6
Std Dev 503.5
pull1D
Entries 51
Mean 0.005167
Std Dev 0.2716

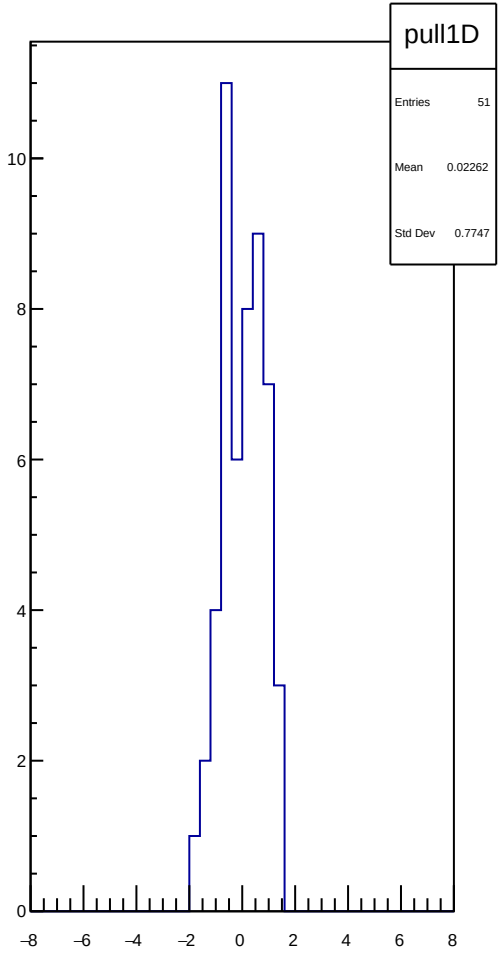

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 3.987 / 50
p0 −33.85 ± 0.771
pull
Entries 51
Mean 156.4
Std Dev 128.3

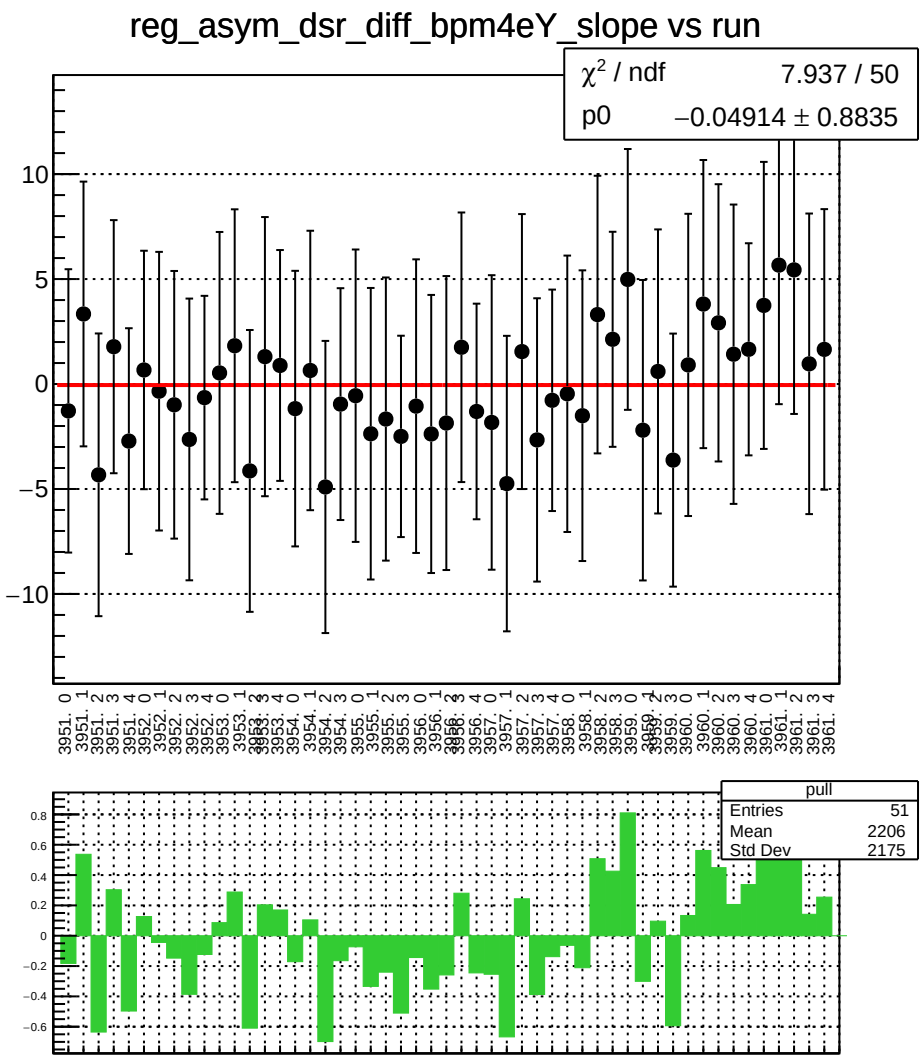

pull1D
Entries 51
Mean −0.01171
Std Dev 0.2794

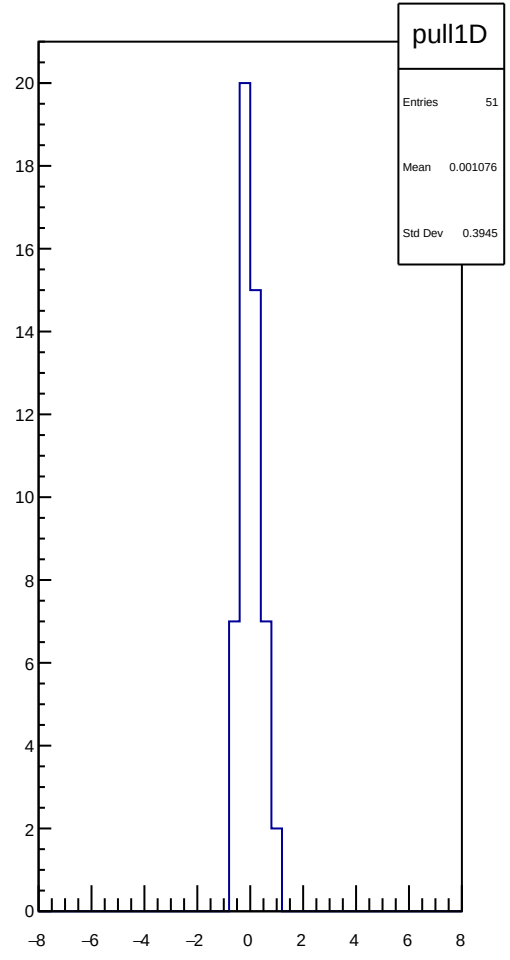

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 6.327 / 50
p0 8.087 ± 0.5276
pull
Entries 51
Mean −438
Std Dev 472.6

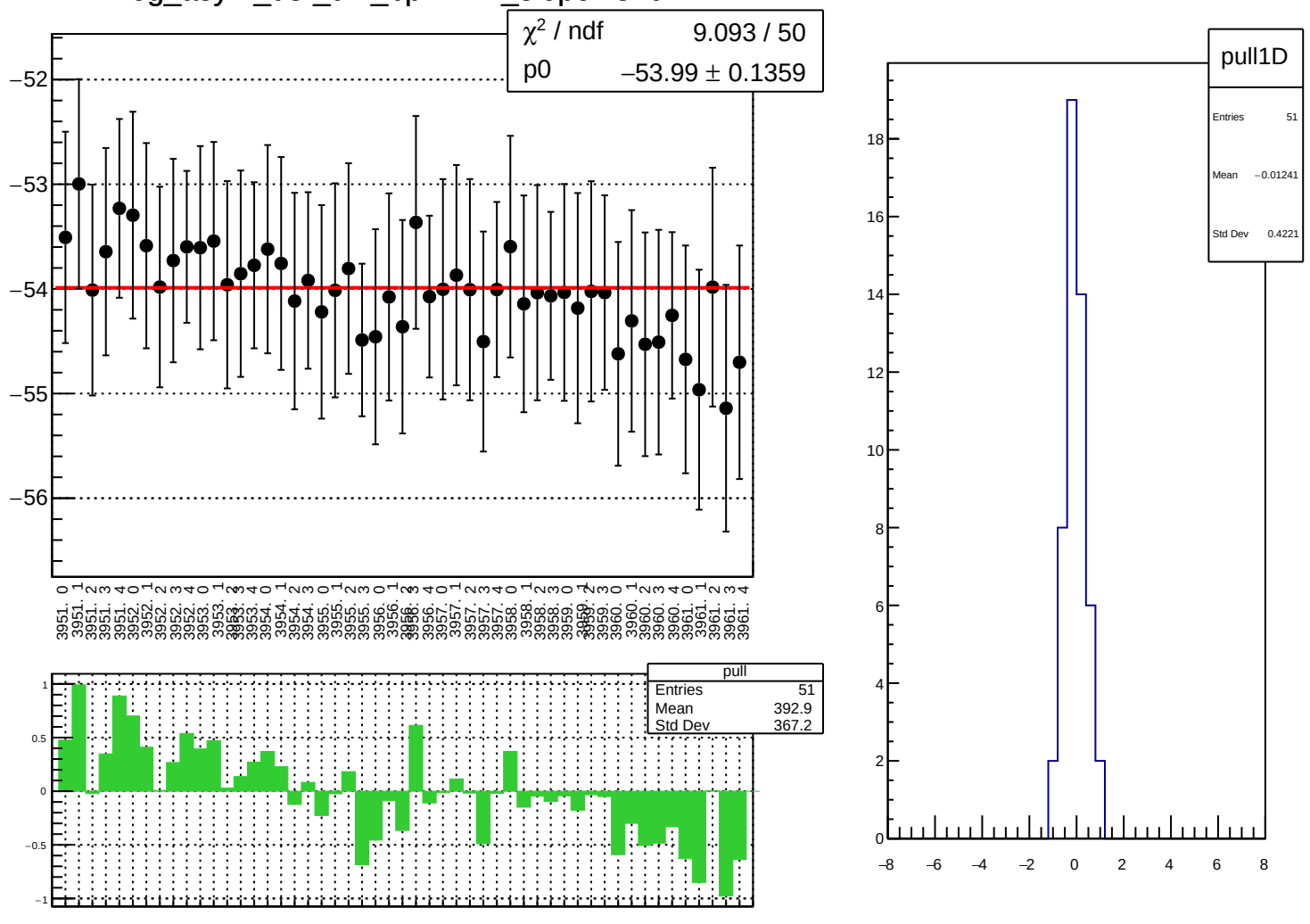

pull1D
Entries 51
Mean 0.002334
Std Dev 0.3522

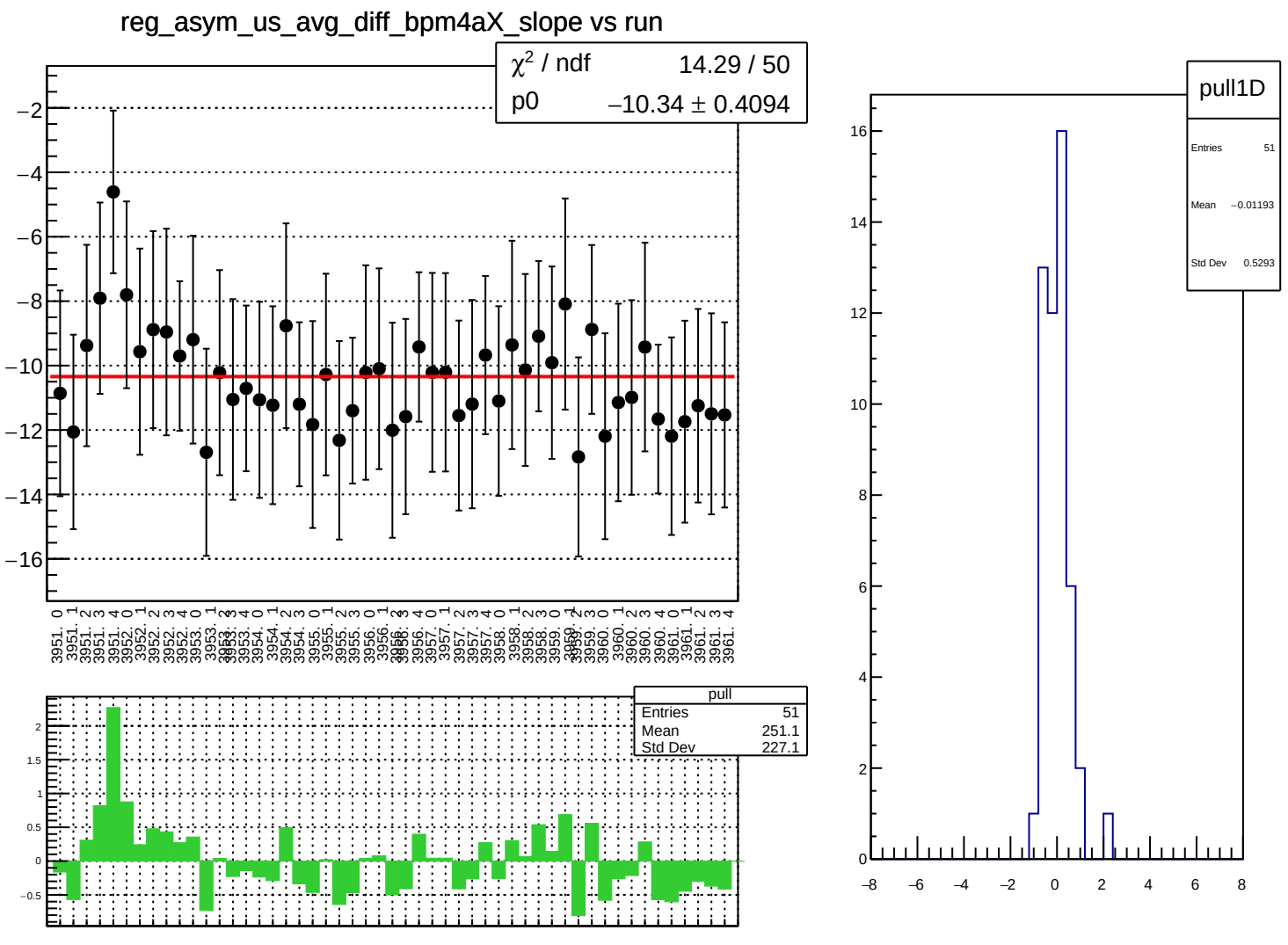

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 30.64 / 50
p0 29.49 ± 0.1315
pull
Entries 51
Mean 299.6
Std Dev 276.7

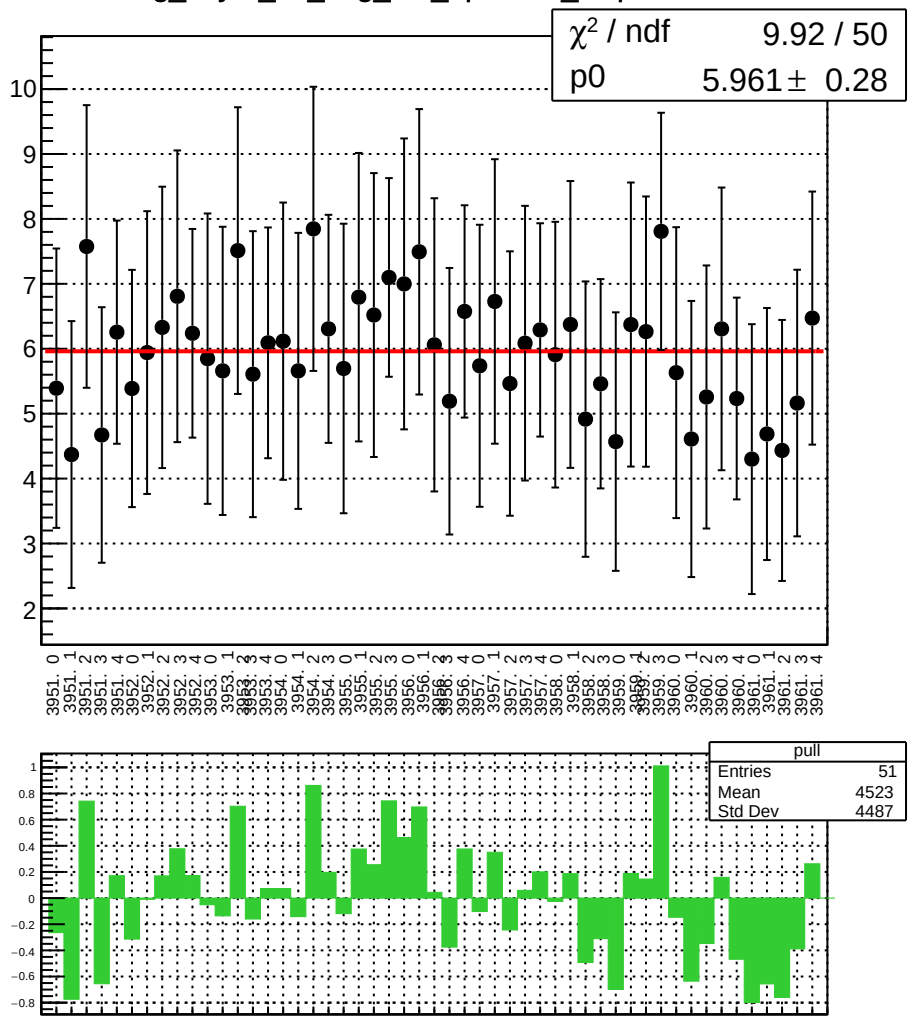

pull1D
Entries 51
Mean 0.02262
Std Dev 0.7747

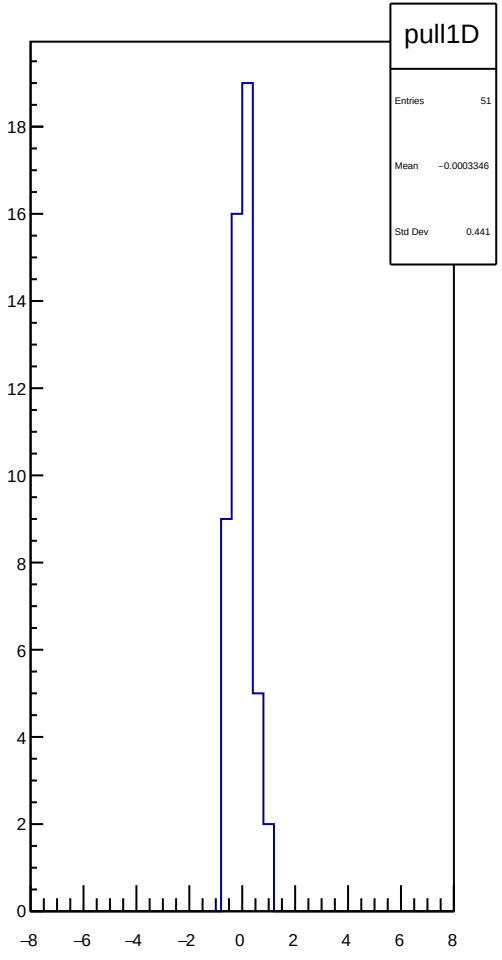

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 7.937 / 50
p0 −0.04914 ± 0.8835
pull
Entries 51
Mean 2206
Std Dev 2175

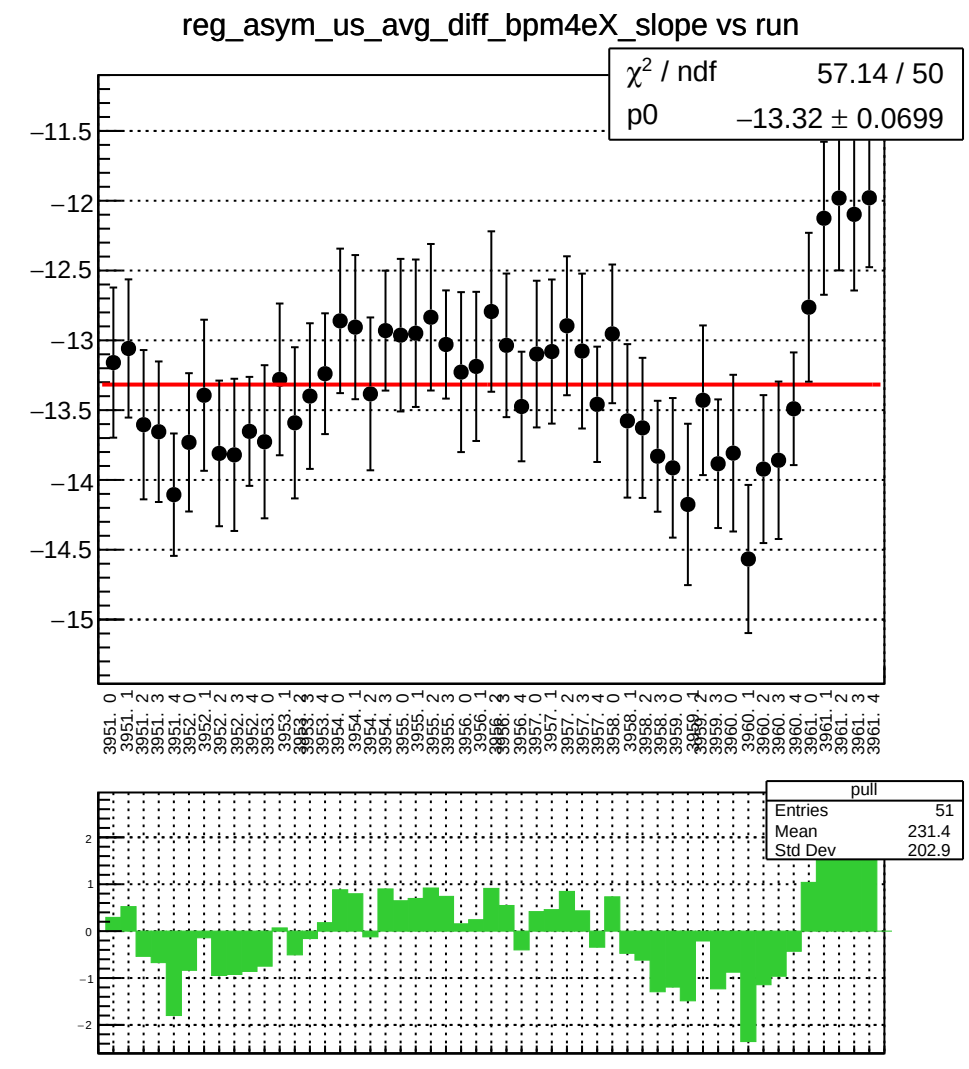

pull1D
Entries 51
Mean 0.001076
Std Dev 0.3945

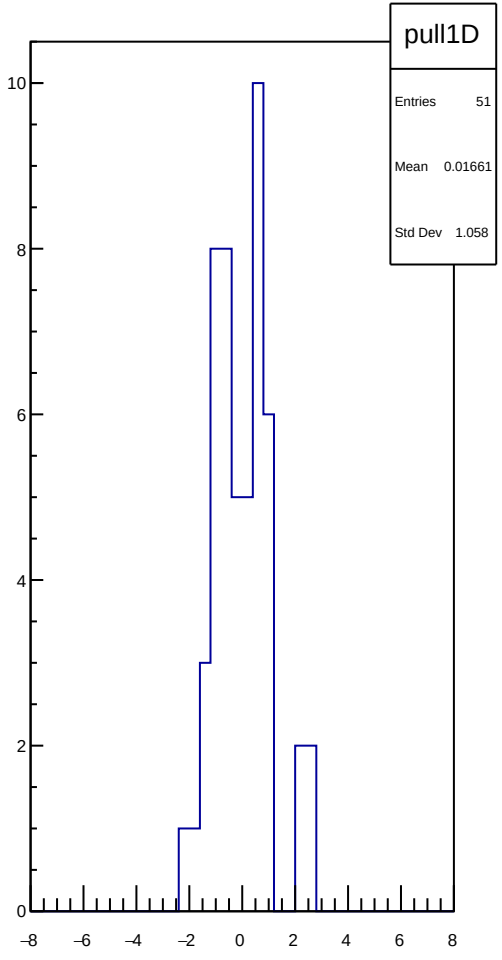

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 9.093 / 50
p0 −53.99 ± 0.1359
pull
Entries 51
Mean 392.9
Std Dev 367.2
pull1D
Entries 51
Mean −0.01241
Std Dev 0.4221

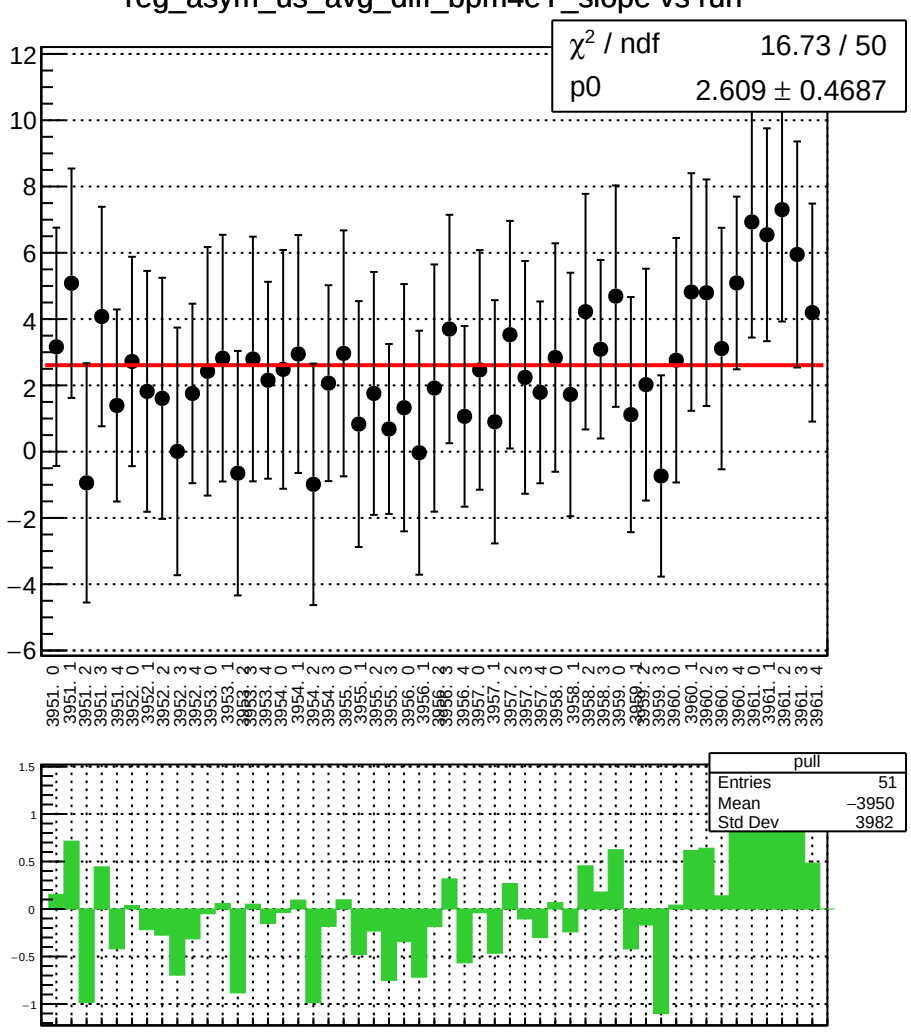

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.29 / 50
p0 −10.34 ± 0.4094
pull
Entries 51
Mean 251.1
Std Dev 227.1
pull1D
Entries 51
Mean −0.01193
Std Dev 0.5293

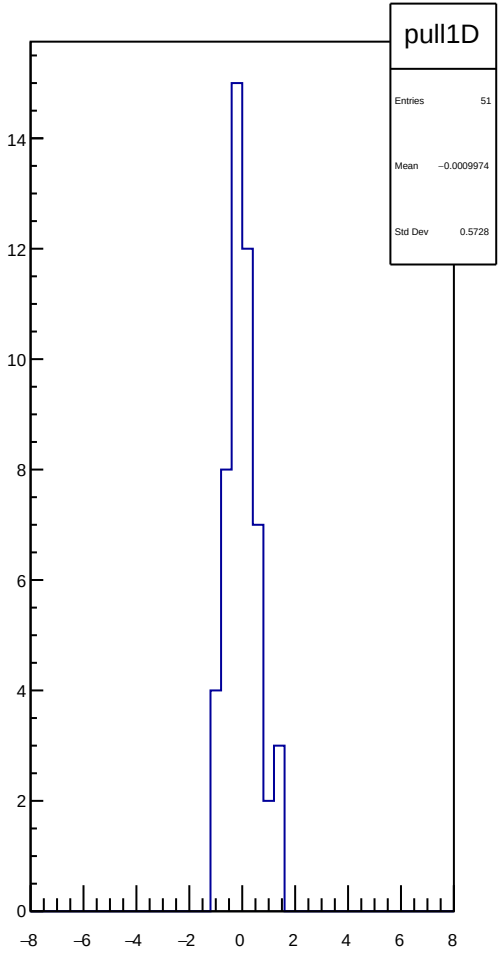

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.92 / 50
p0 5.961 ± 0.28
pull
Entries 51
Mean 4523
Std Dev 4487

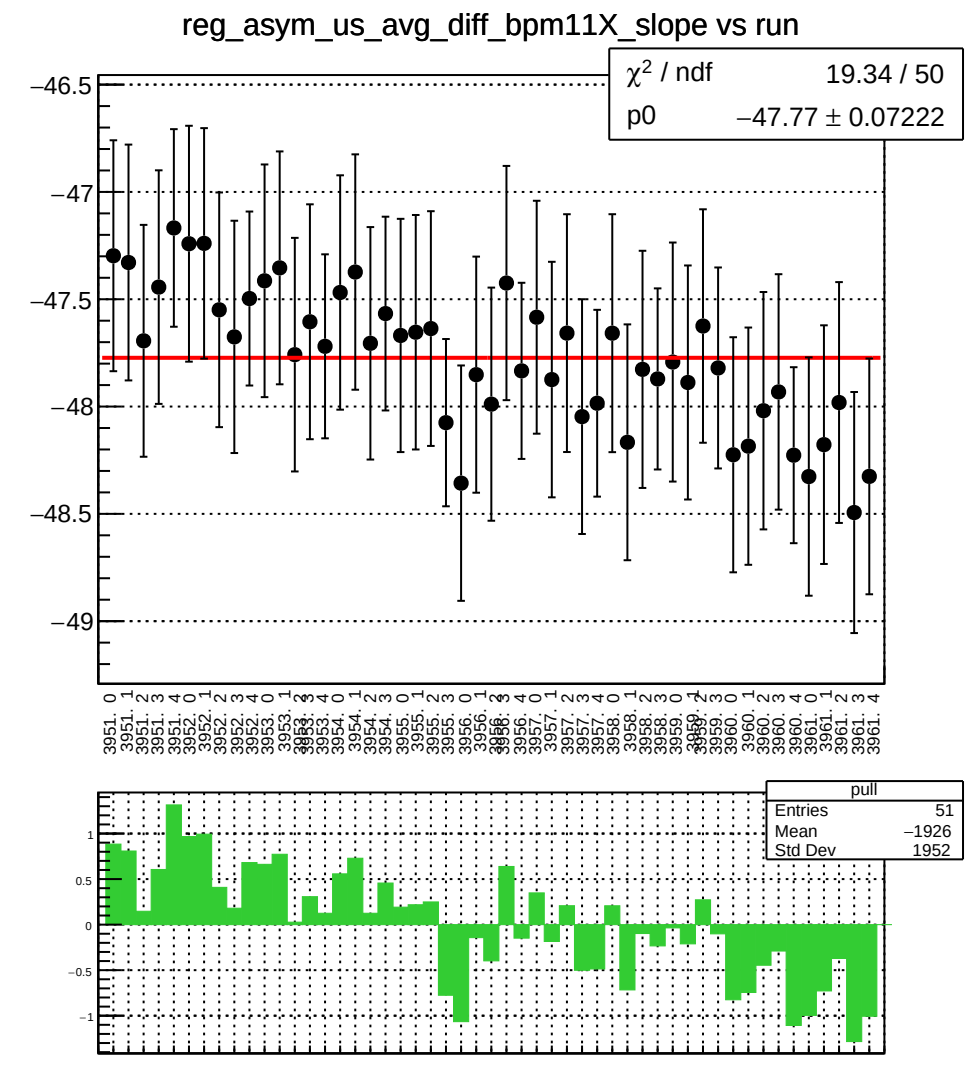

pull1D
Entries 51
Mean −0.0003346
Std Dev 0.441

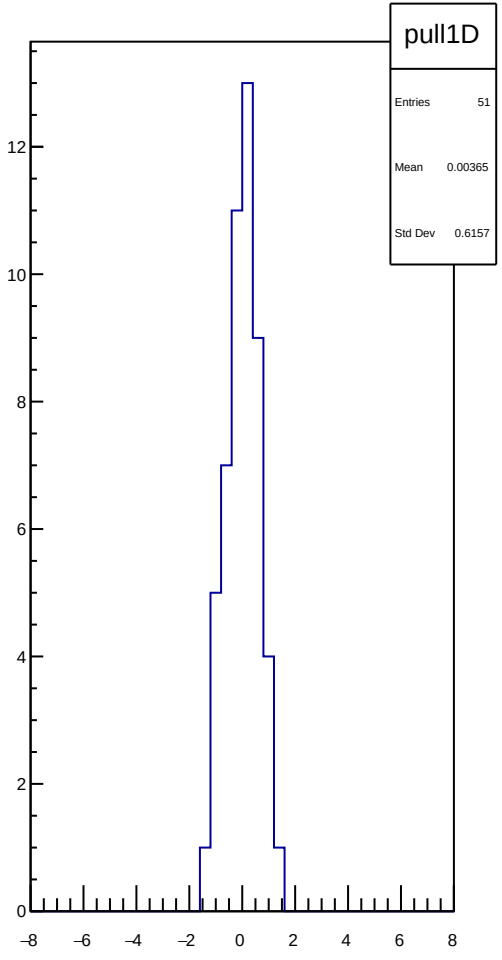

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.14 / 50
p0 −13.32 ± 0.0699
pull
Entries 51
Mean 231.4
Std Dev 202.9

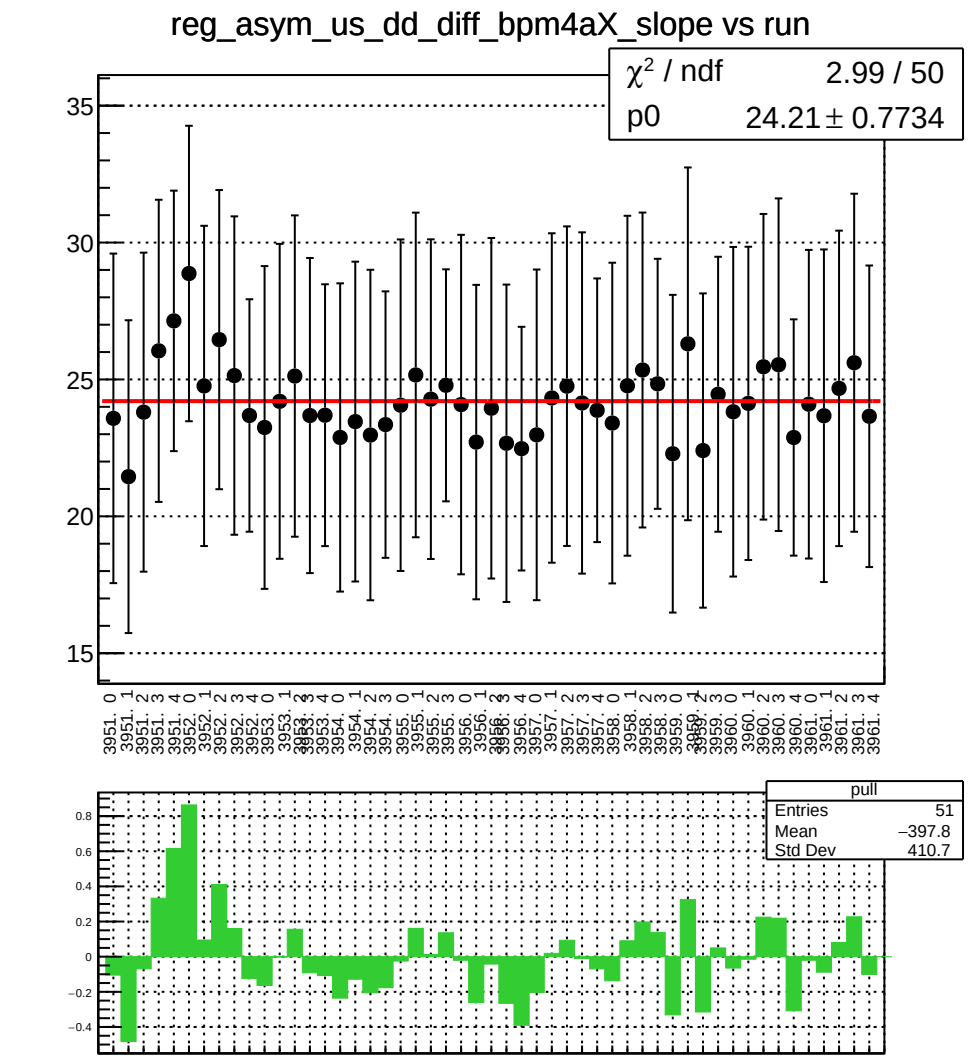

pull1D
Entries 51
Mean 0.01661
Std Dev 1.058

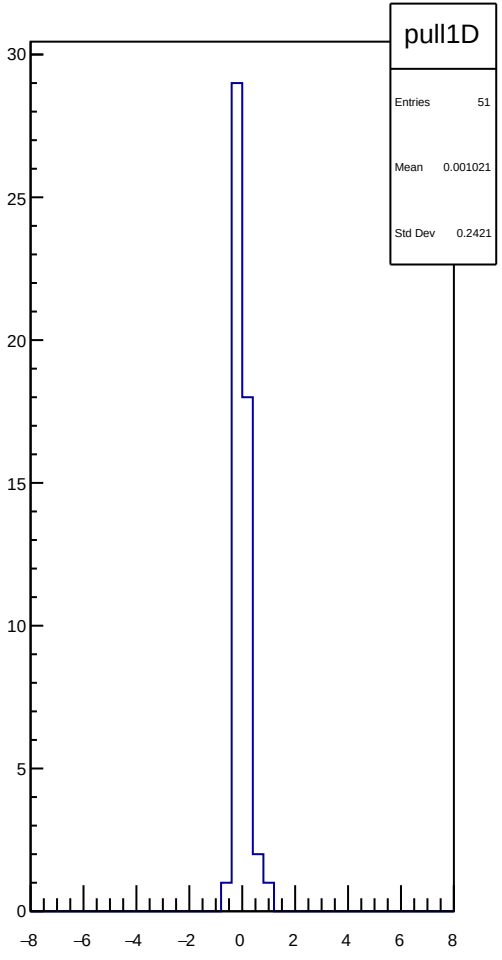

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.73 / 50
p0 2.609 ± 0.4687
pull
Entries 51
Mean −3950
Std Dev 3982

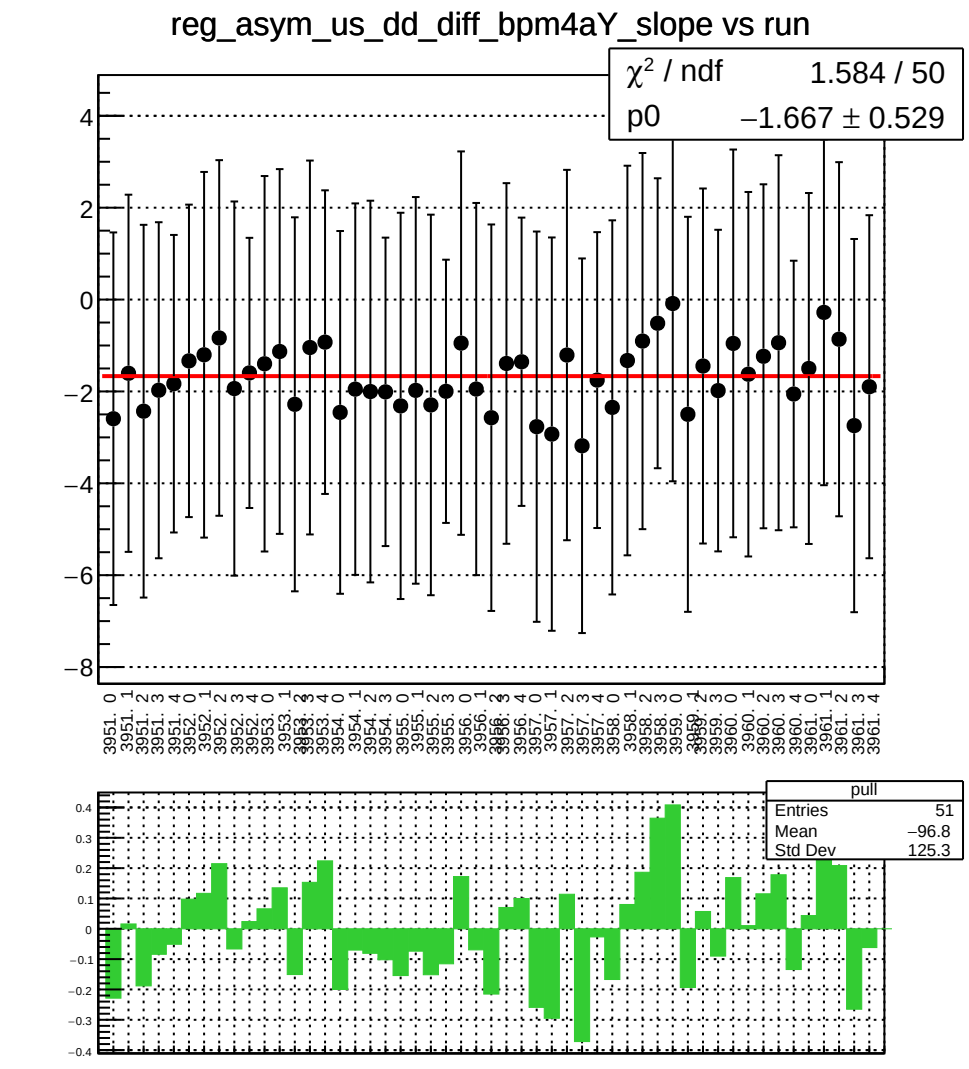

pull1D
Entries 51
Mean −0.0009974
Std Dev 0.5728

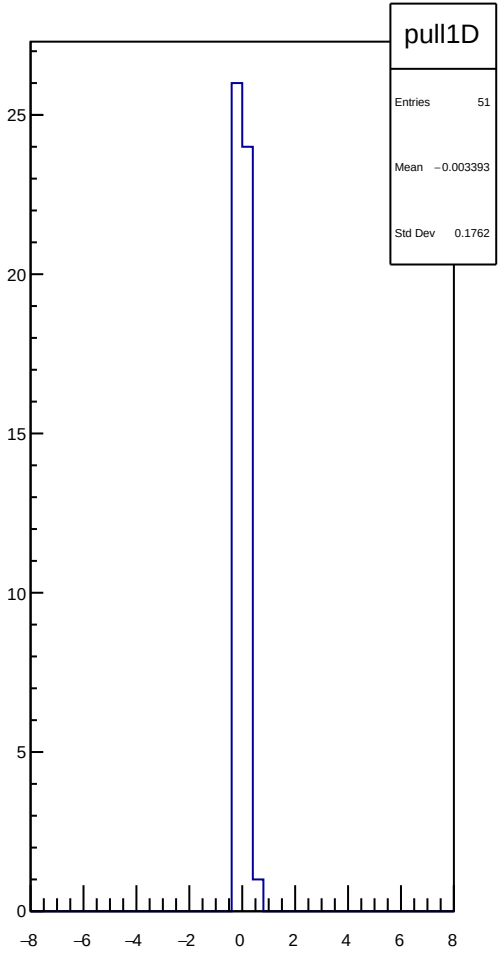

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 19.34 / 50
p0 −47.77 ± 0.07222
−46.5
−47
−47.5
−48
−48.5
−49
pull
Entries 51
Mean −1926
Std Dev 1952
1
0.5
0
−0.5
−1

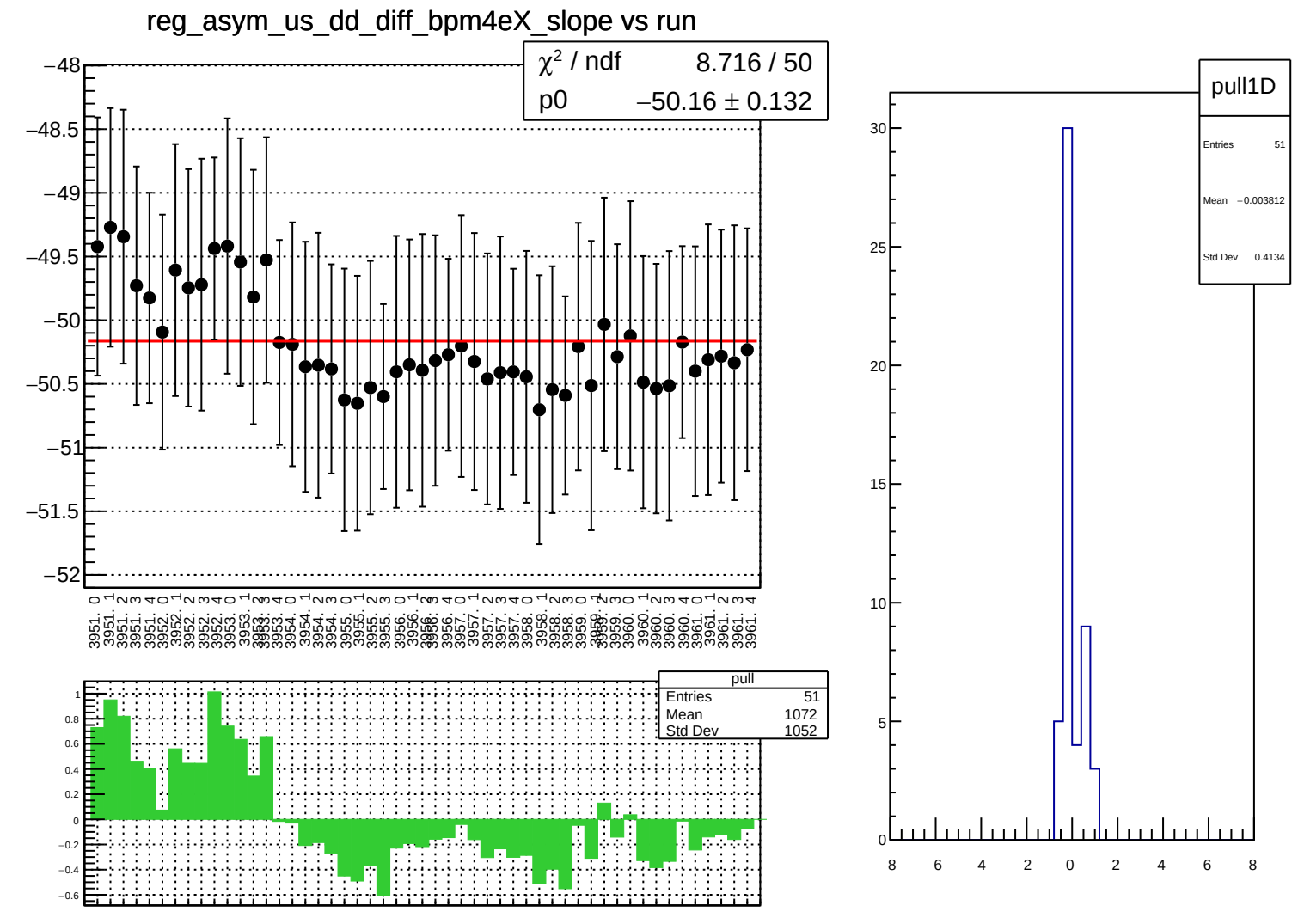

pull1D
Entries 51
Mean 0.00365
Std Dev 0.6157
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

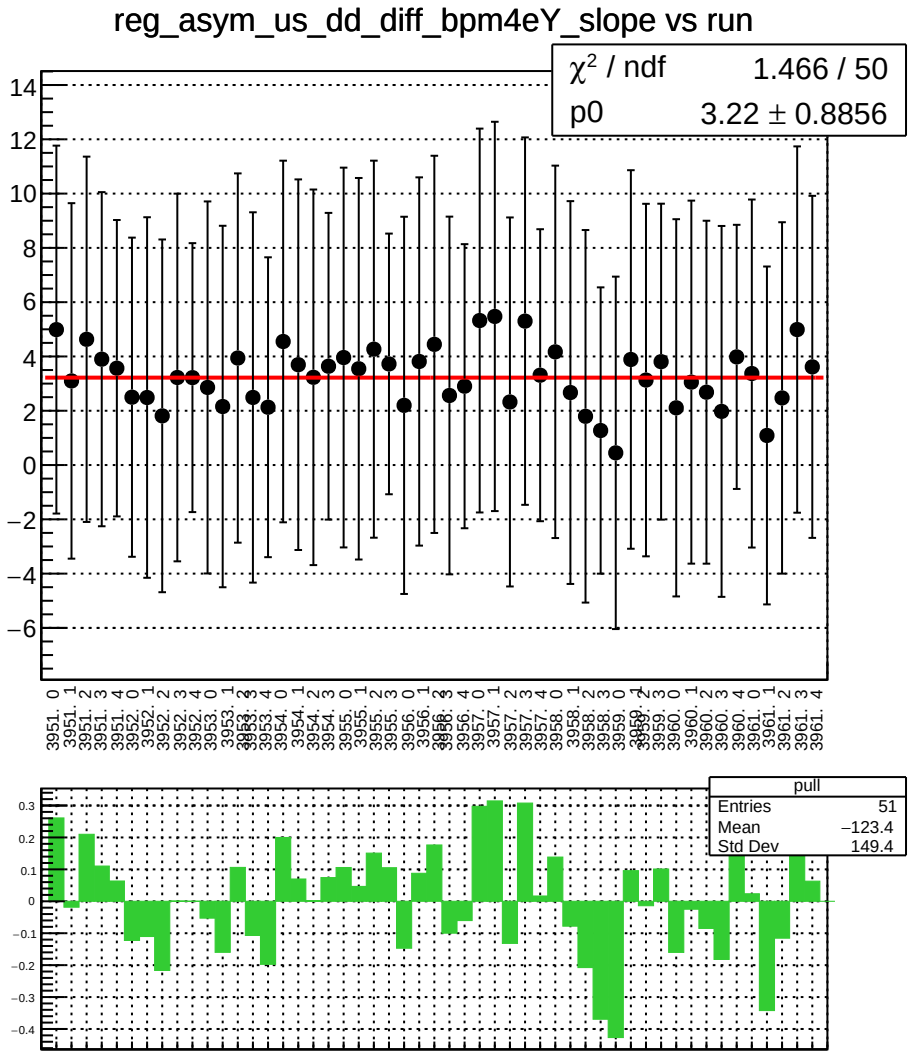

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.99 / 50
p0 24.21 ± 0.7734
pull
Entries 51
Mean −397.8
Std Dev 410.7

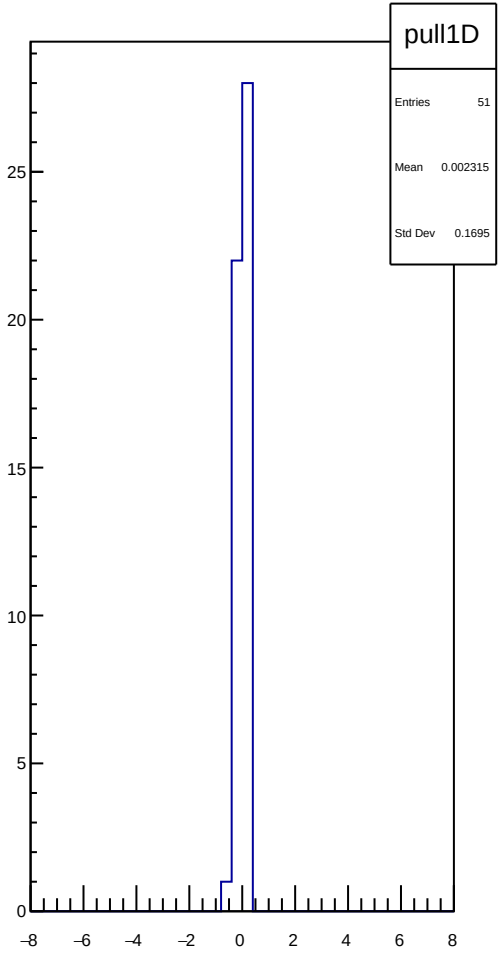

pull1D
Entries 51
Mean 0.001021
Std Dev 0.2421

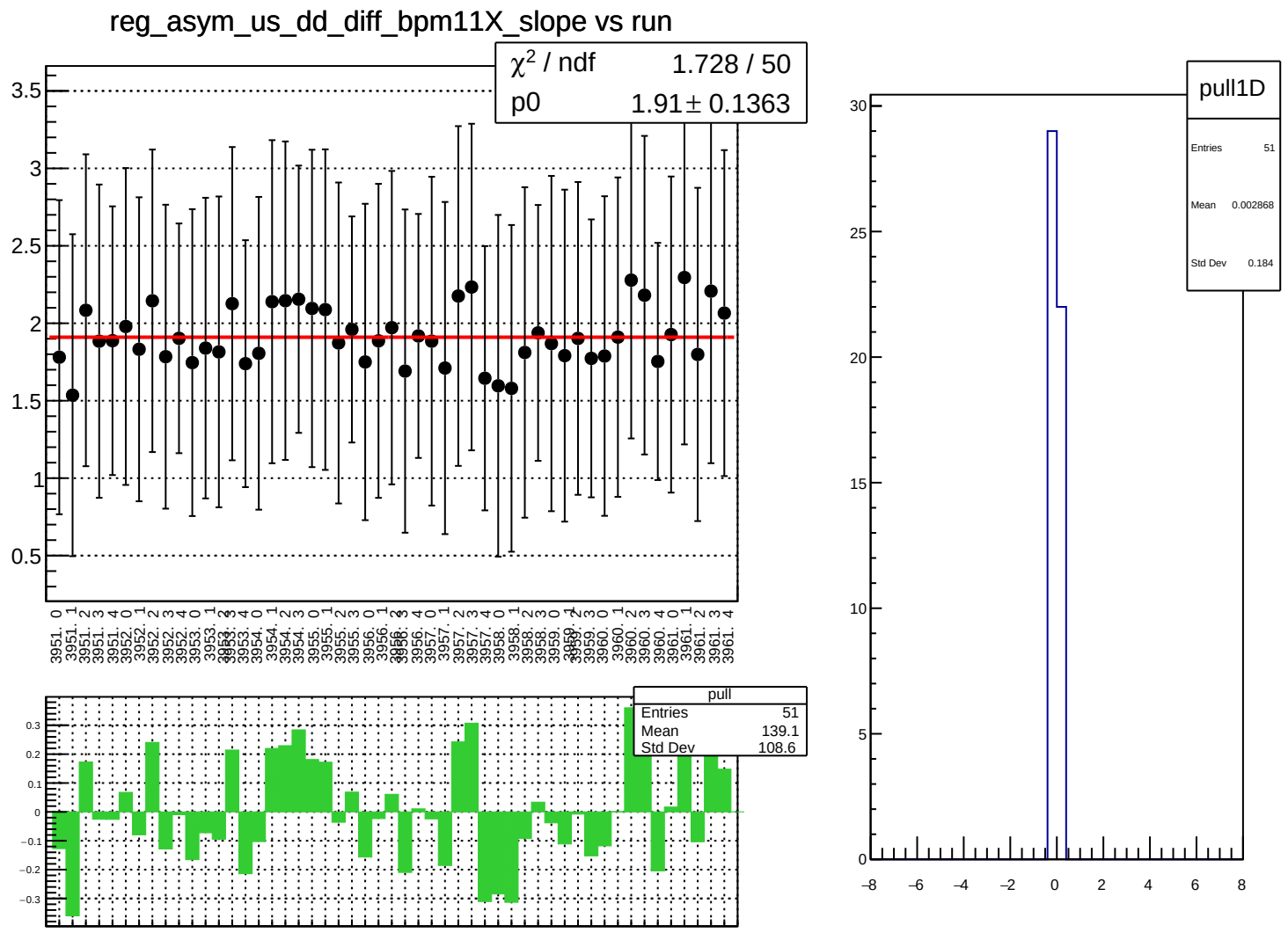

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.584 / 50
p0 −1.667 ± 0.529
pull
Entries 51
Mean −96.8
Std Dev 125.3

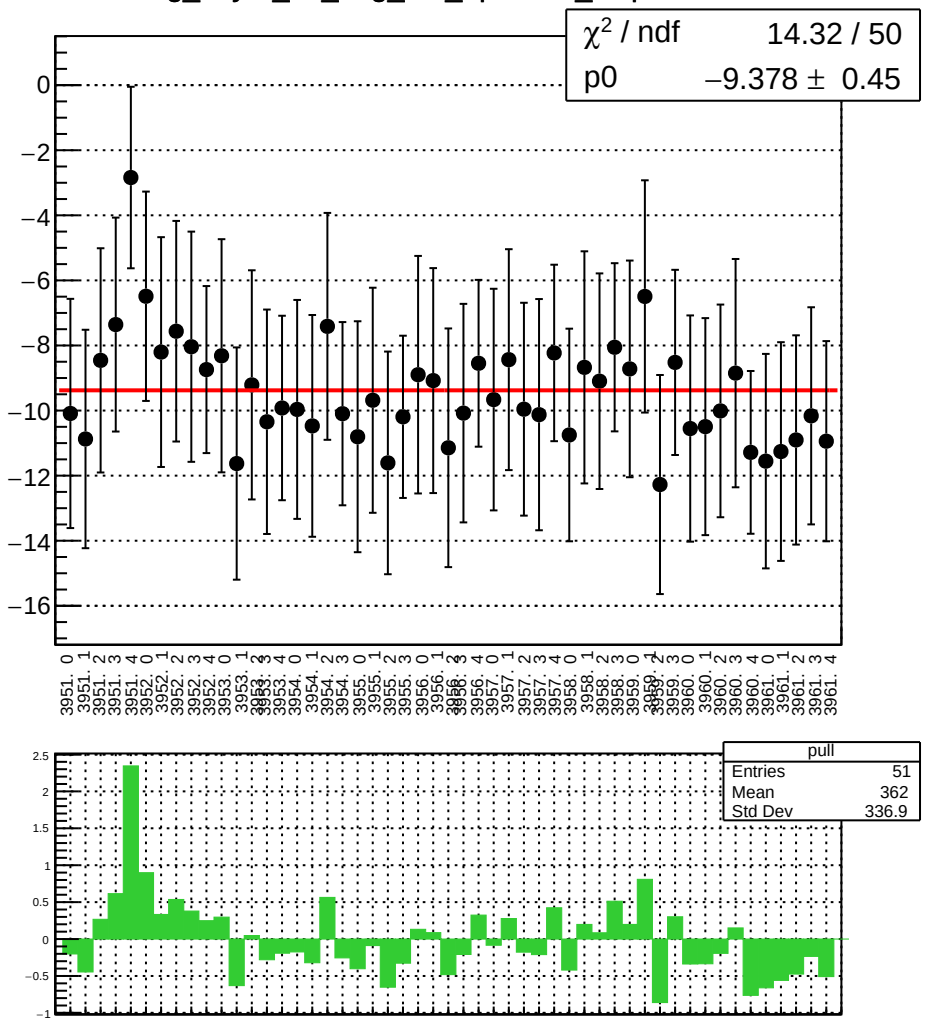

pull1D
Entries 51
Mean −0.003393
Std Dev 0.1762

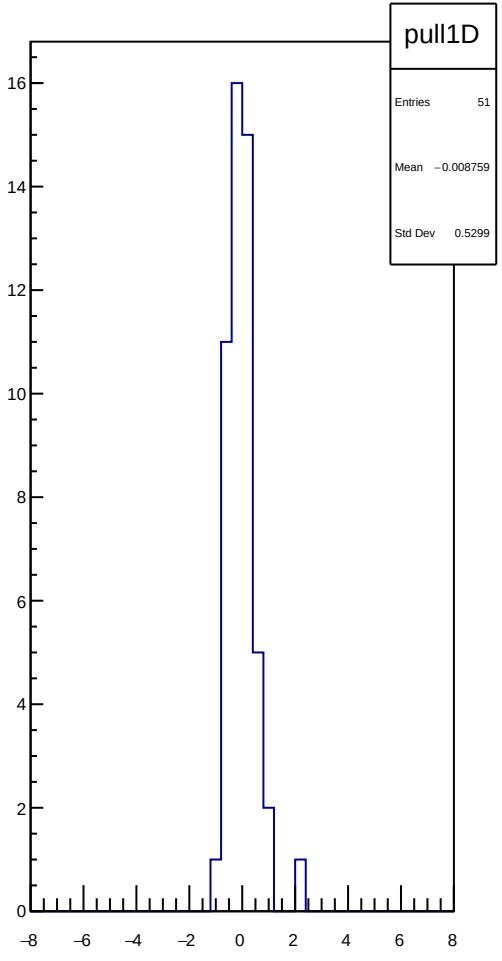

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.716 / 50
p0 −50.16 ± 0.132
pull
Entries 51
Mean 1072
Std Dev 1052
pull1D
Entries 51
Mean −0.003812
Std Dev 0.4134

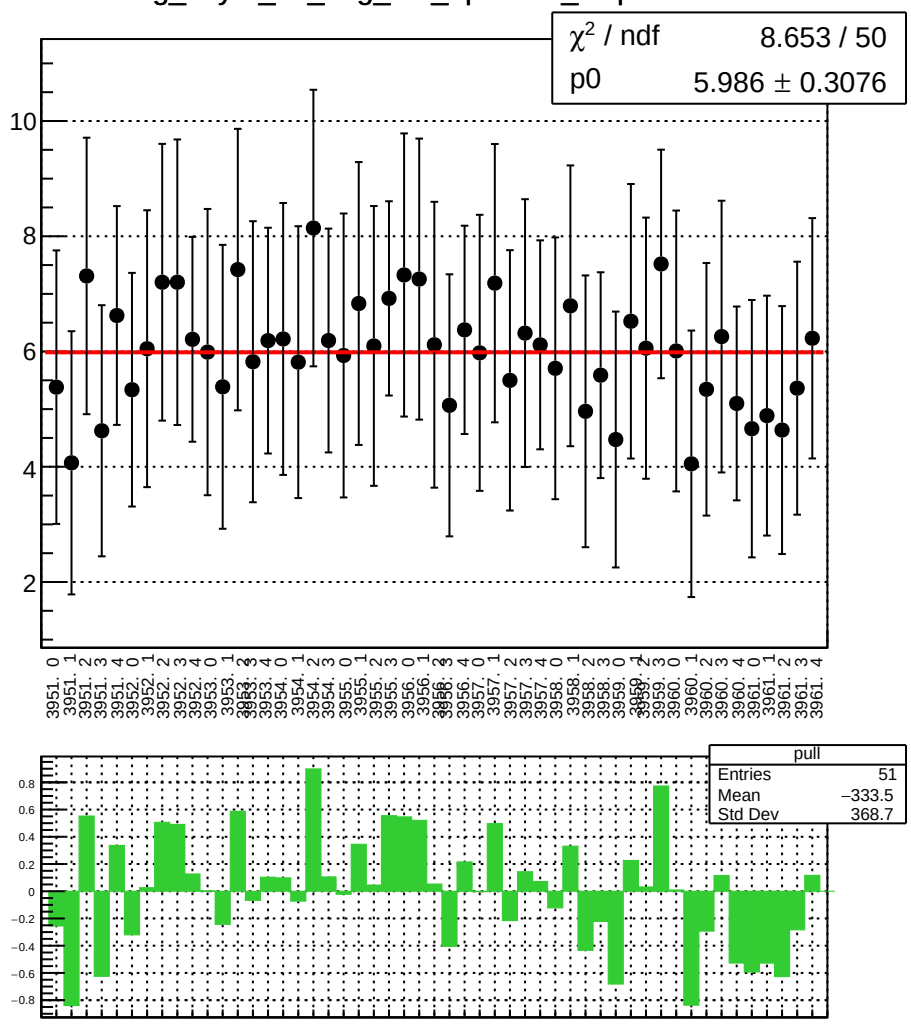

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.466 / 50
p0 3.22 ± 0.8856
pull
Entries 51
Mean −123.4
Std Dev 149.4

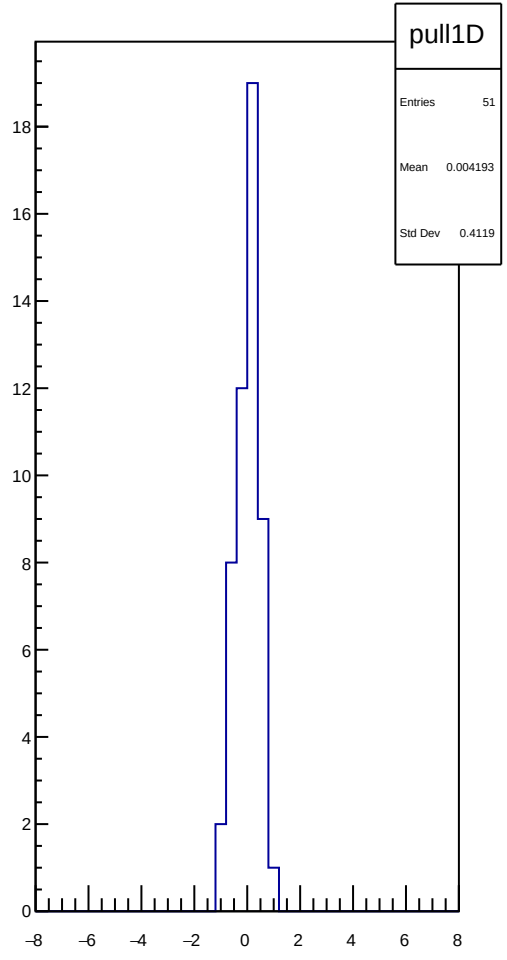

pull1D
Entries 51
Mean 0.002315
Std Dev 0.1695

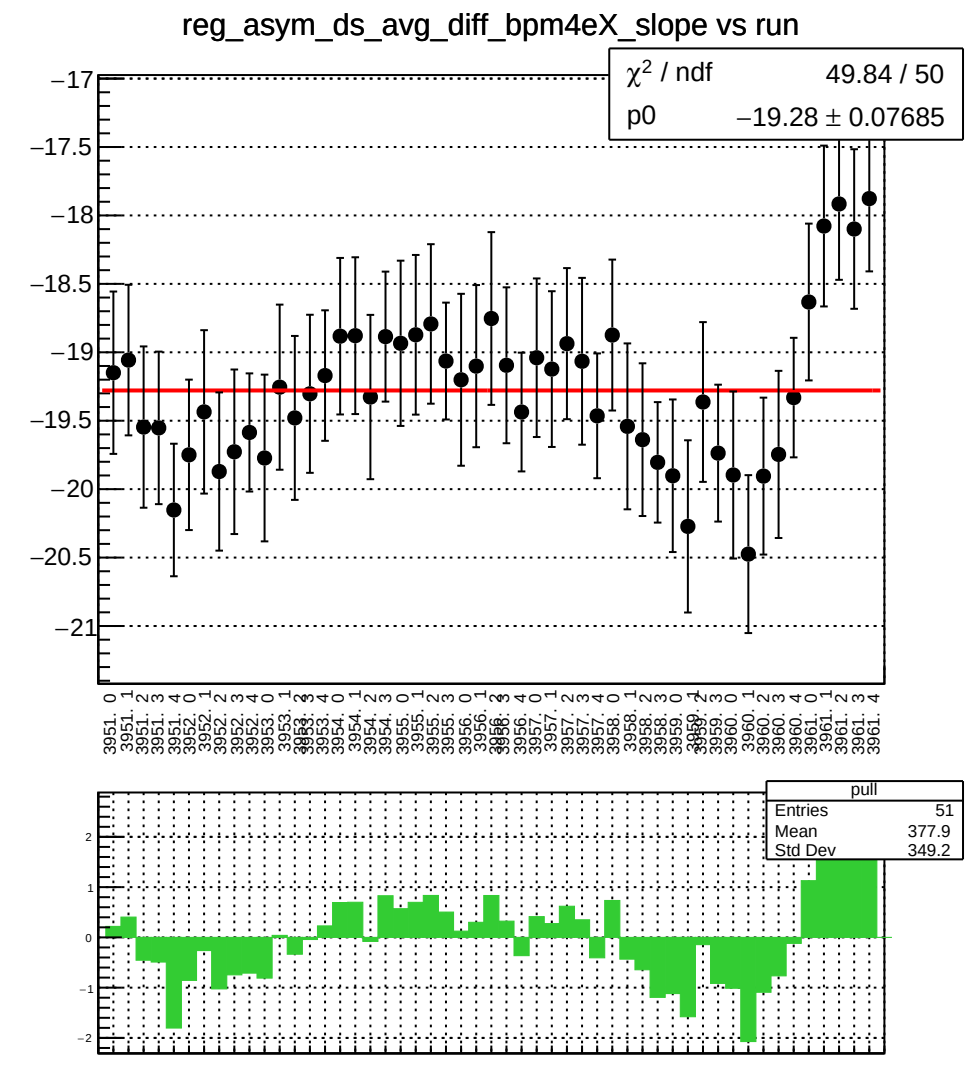

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 1.728 / 50
p0 1.91 ± 0.1363
pull
Entries 51
Mean 139.1
Std Dev 108.6
pull1D
Entries 51
Mean 0.002868
Std Dev 0.184

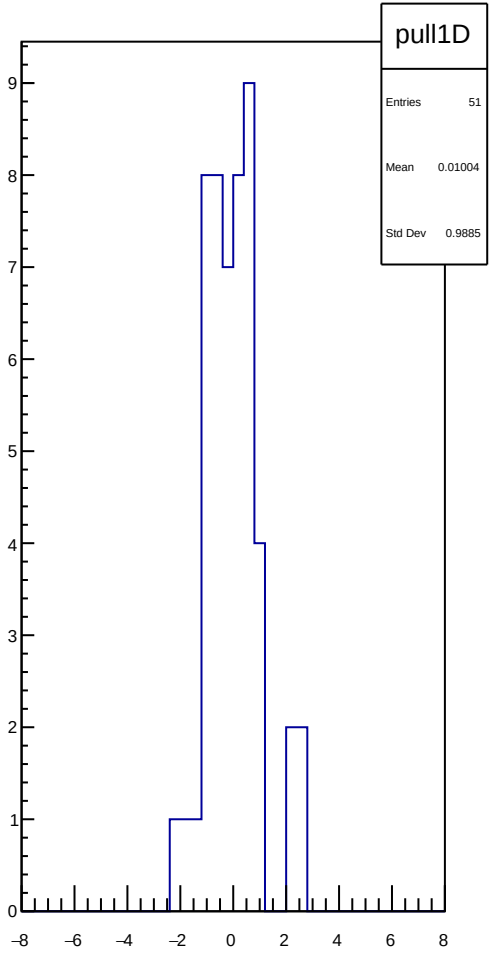

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.32 / 50
p0 −9.378 ± 0.45
pull
Entries 51
Mean 362
Std Dev 336.9

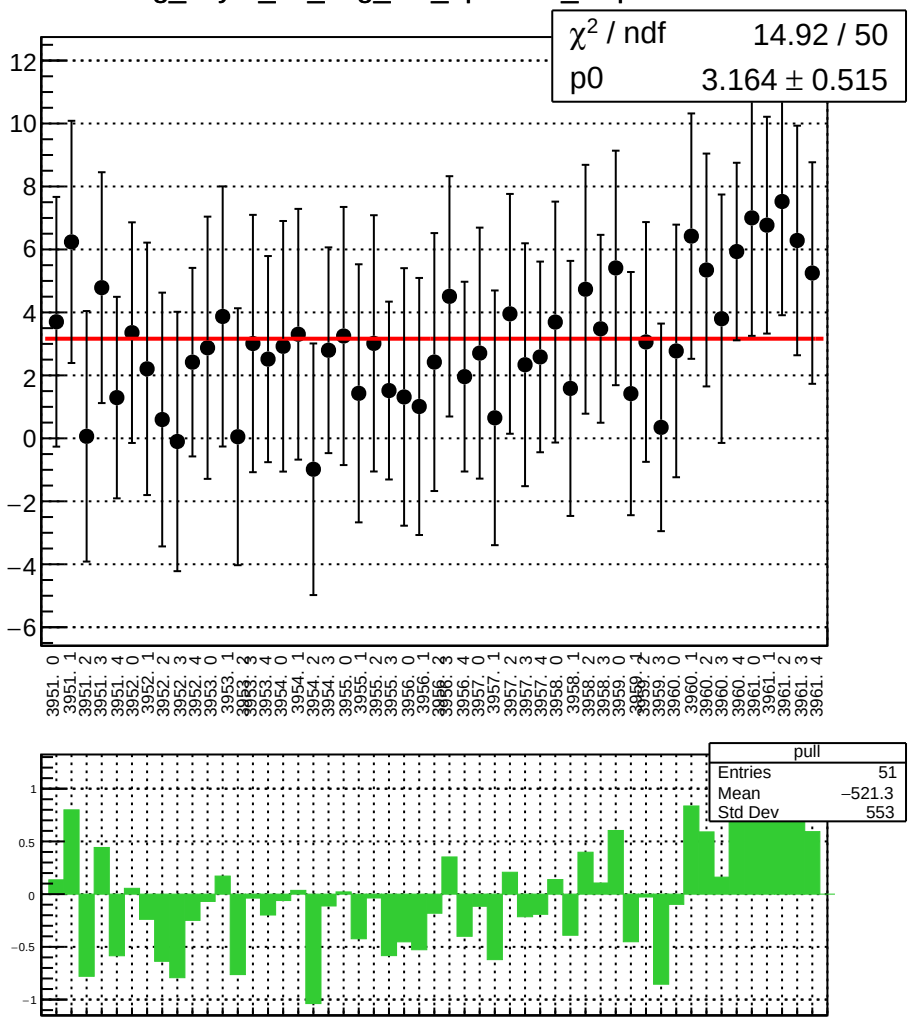

pull1D
Entries 51
Mean −0.008759
Std Dev 0.5299

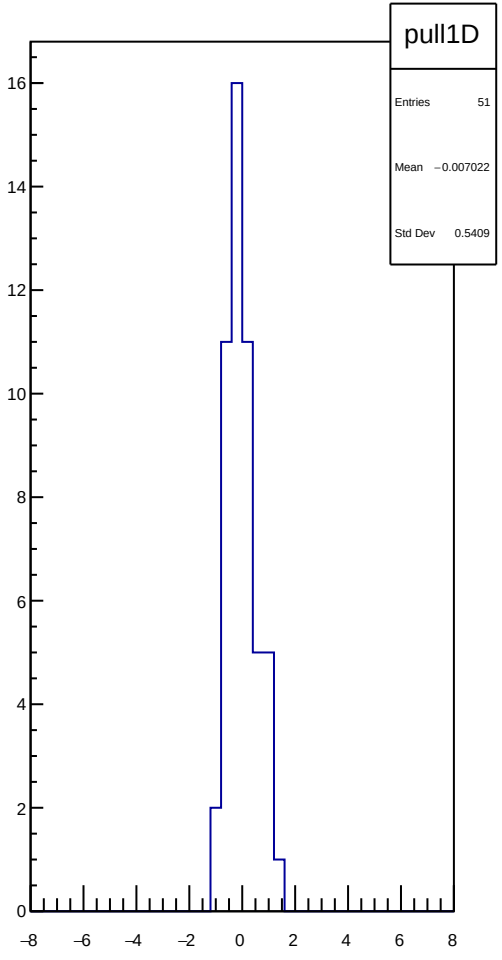

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.653 / 50
p0 5.986 ± 0.3076
pull
Entries 51
Mean −333.5
Std Dev 368.7

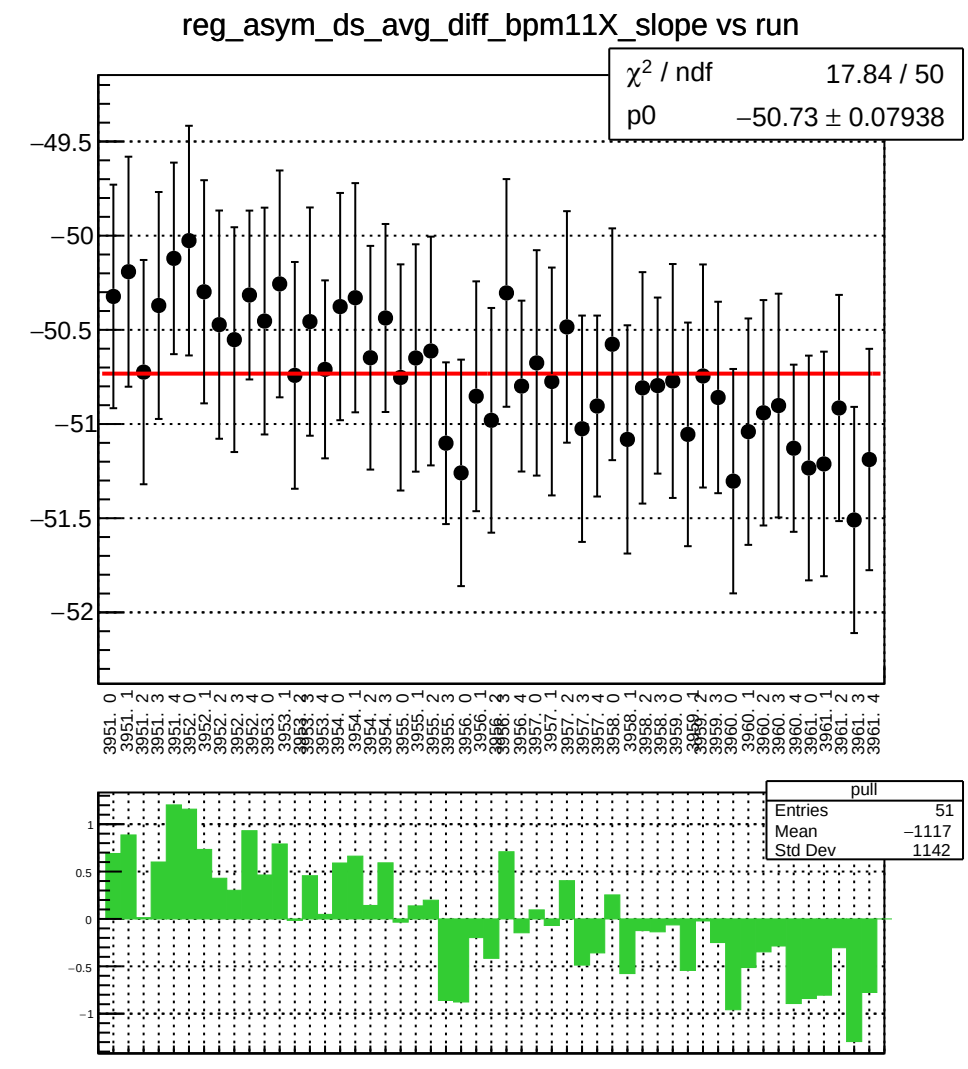

pull1D
Entries 51
Mean 0.004193
Std Dev 0.4119

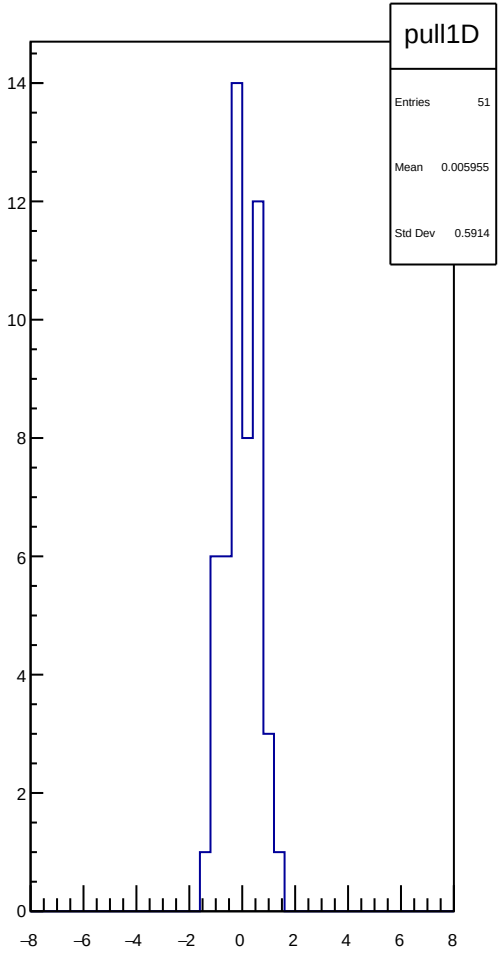

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.84 / 50
p0 −19.28 ± 0.07685
pull
Entries 51
Mean 377.9
Std Dev 349.2

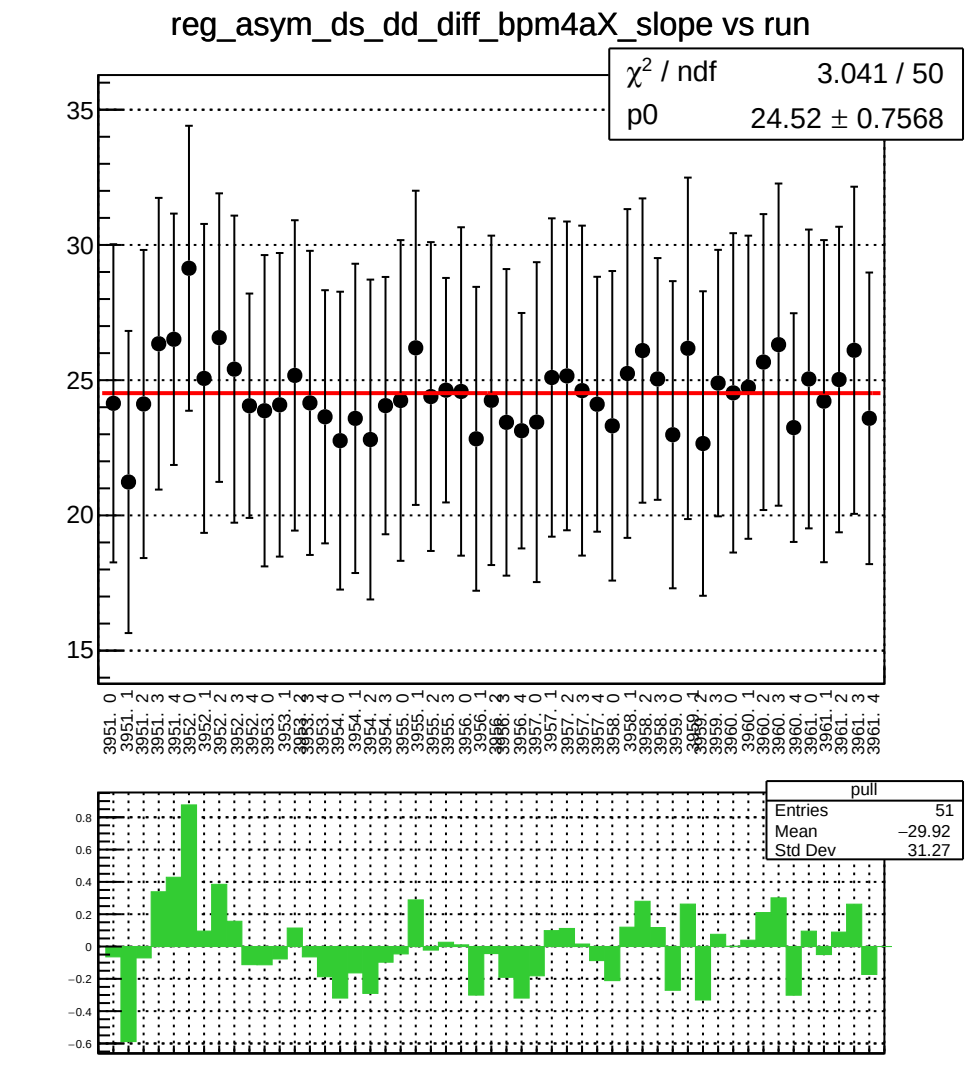

pull1D
Entries 51
Mean 0.01004
Std Dev 0.9885

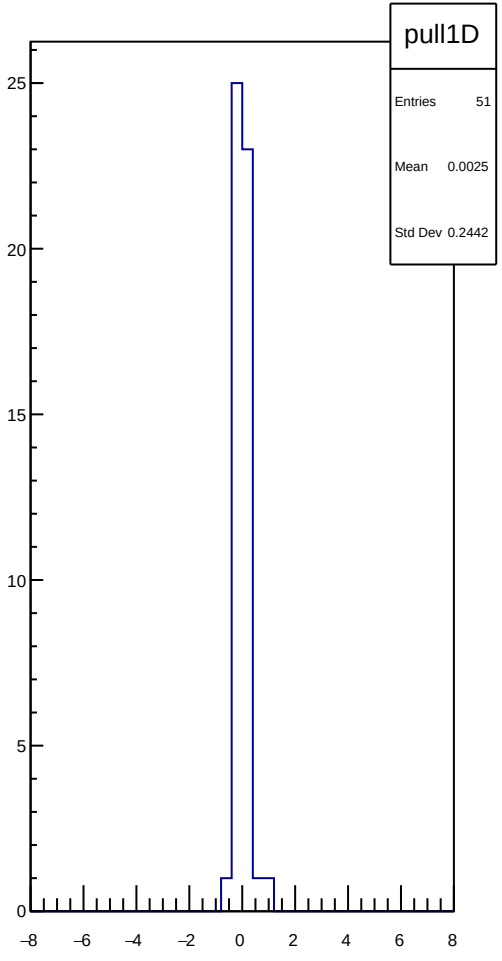

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.92 / 50
p0 3.164 ± 0.515
pull
Entries 51
Mean −521.3
Std Dev 553

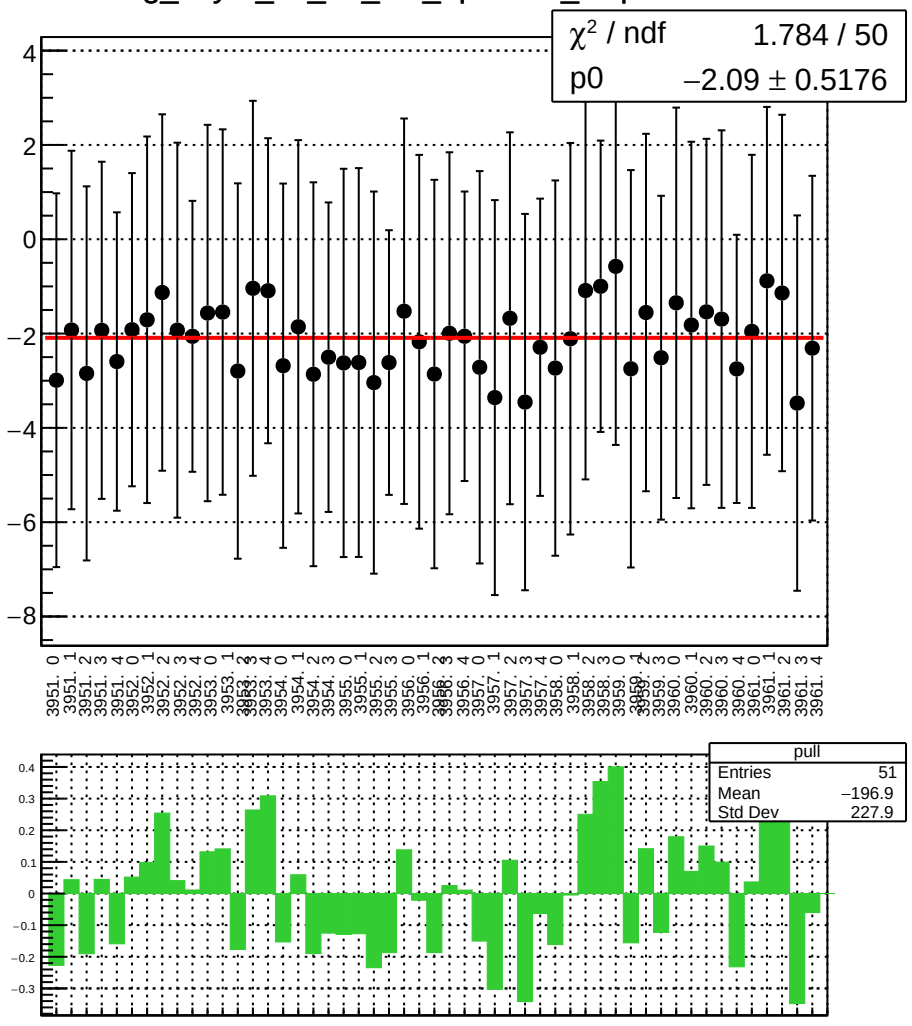

pull1D
Entries 51
Mean −0.007022
Std Dev 0.5409

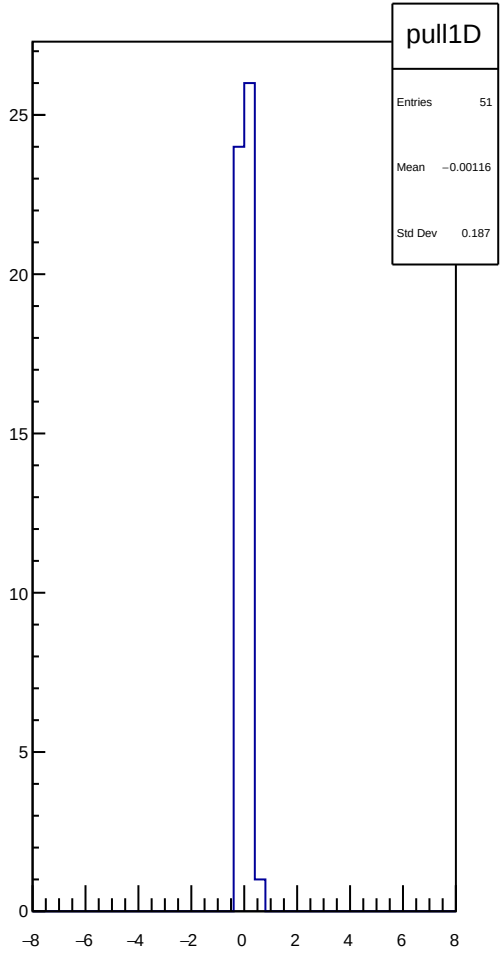

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 17.84 / 50
p0 −50.73 ± 0.07938
−49.5
−50
−50.5
−51
−51.5
−52
pull
Entries 51
Mean −1117
Std Dev 1142
1
0.5
0
−0.5
−1

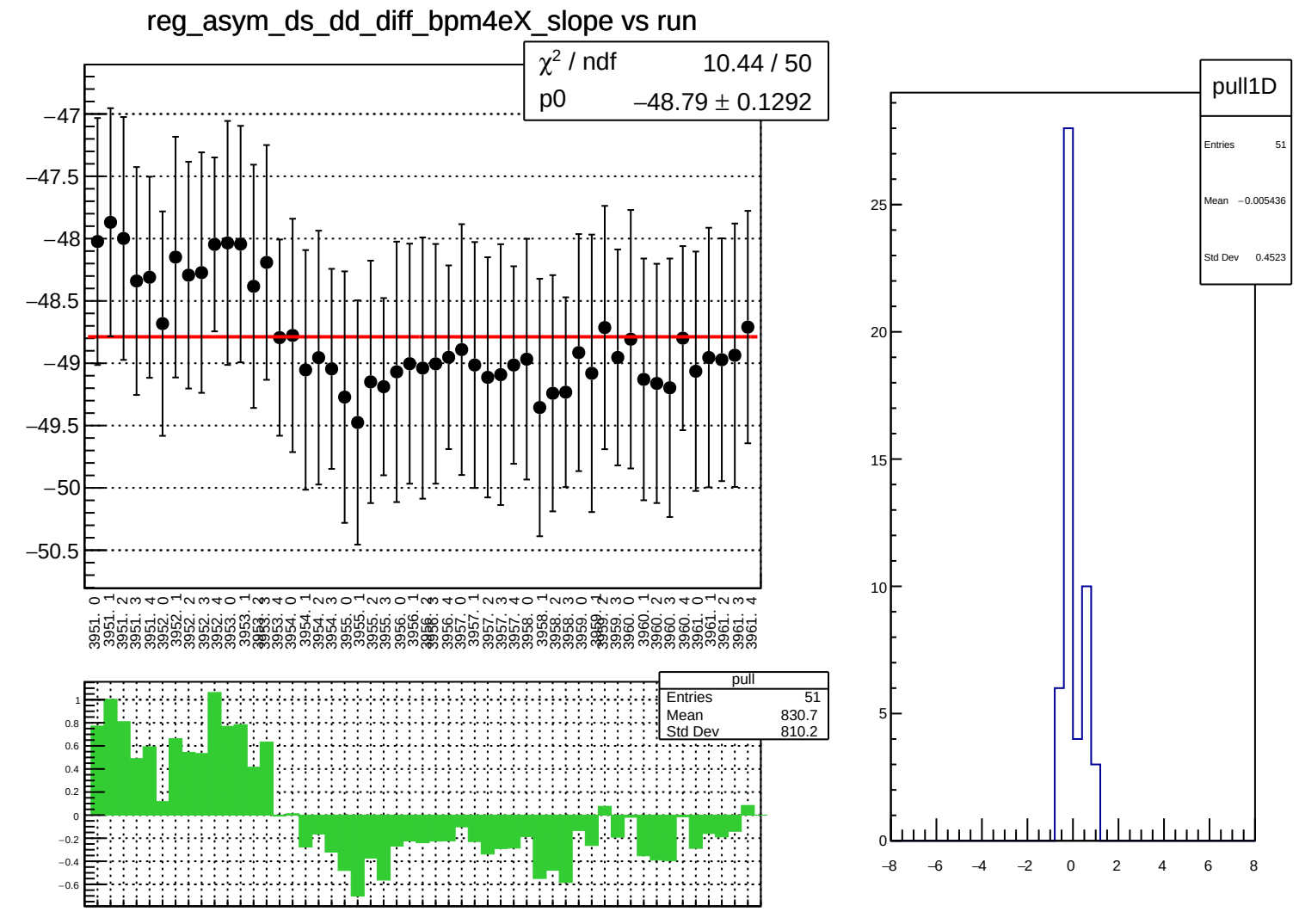

pull1D
Entries 51
Mean 0.005955
Std Dev 0.5914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

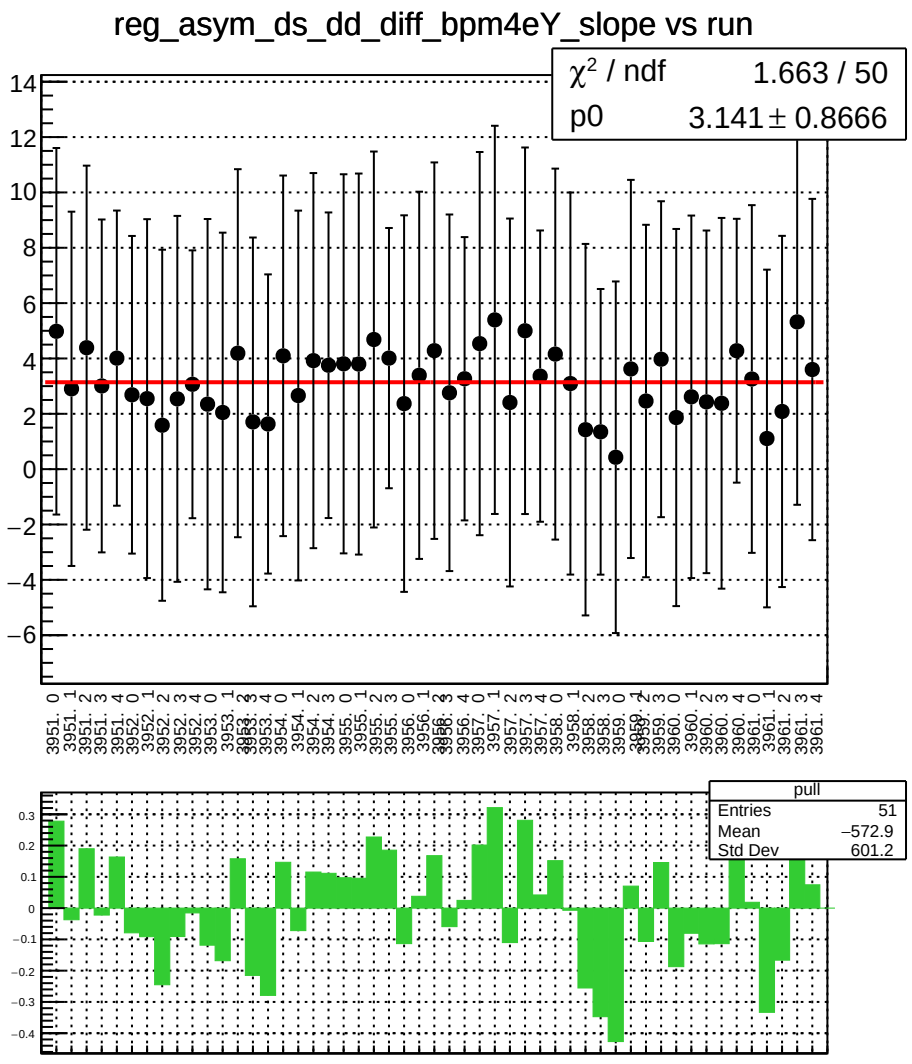

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.041 / 50
p0 24.52 ± 0.7568
pull
Entries 51
Mean −29.92
Std Dev 31.27

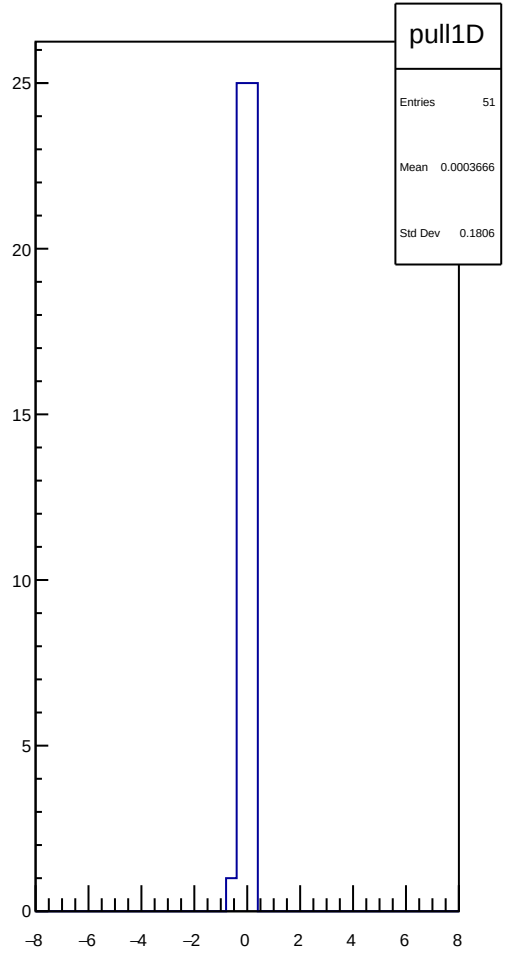

pull1D
Entries 51
Mean 0.0025
Std Dev 0.2442

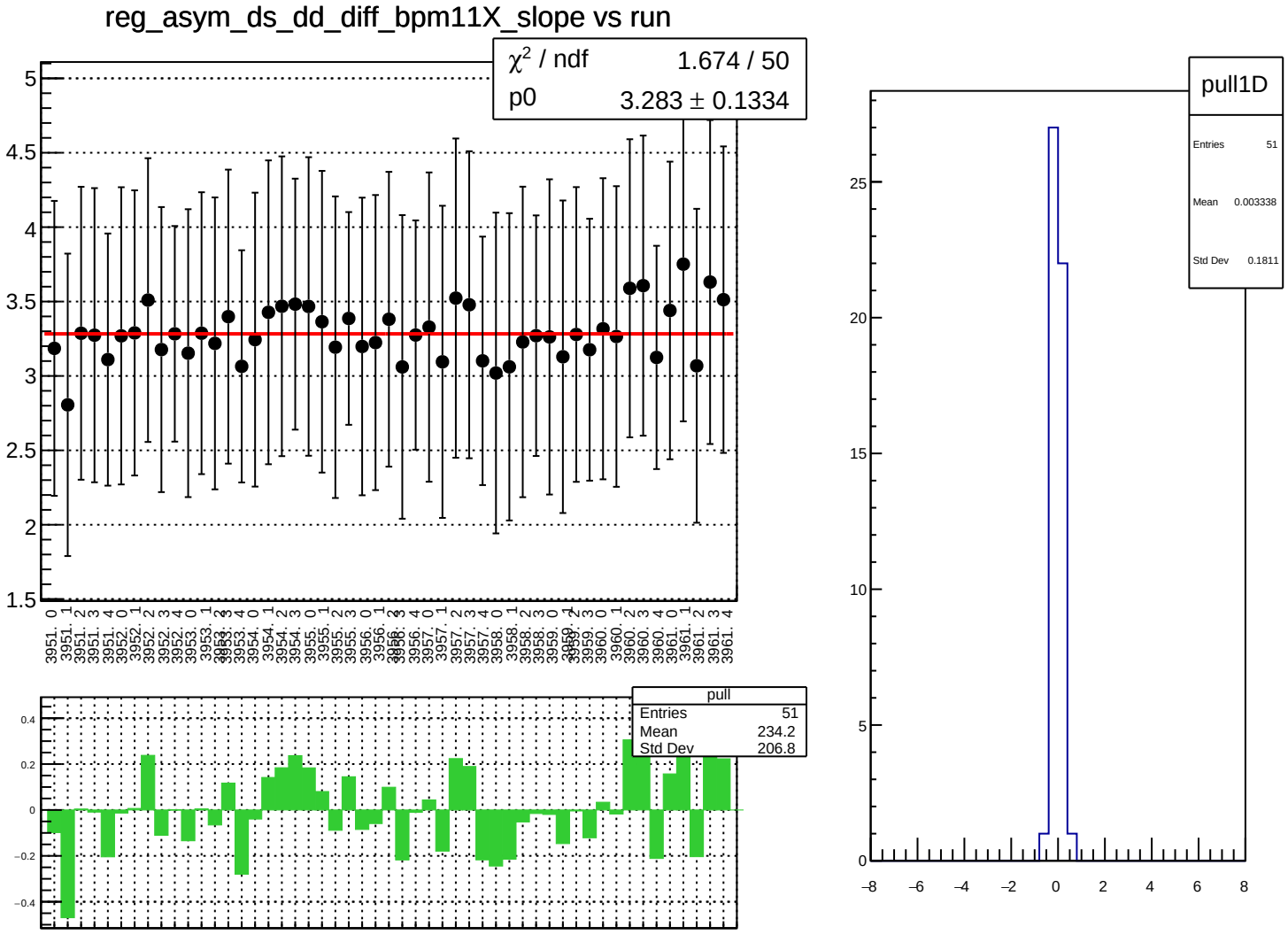

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.784 / 50
p0 −2.09 ± 0.5176
pull
Entries 51
Mean −196.9
Std Dev 227.9

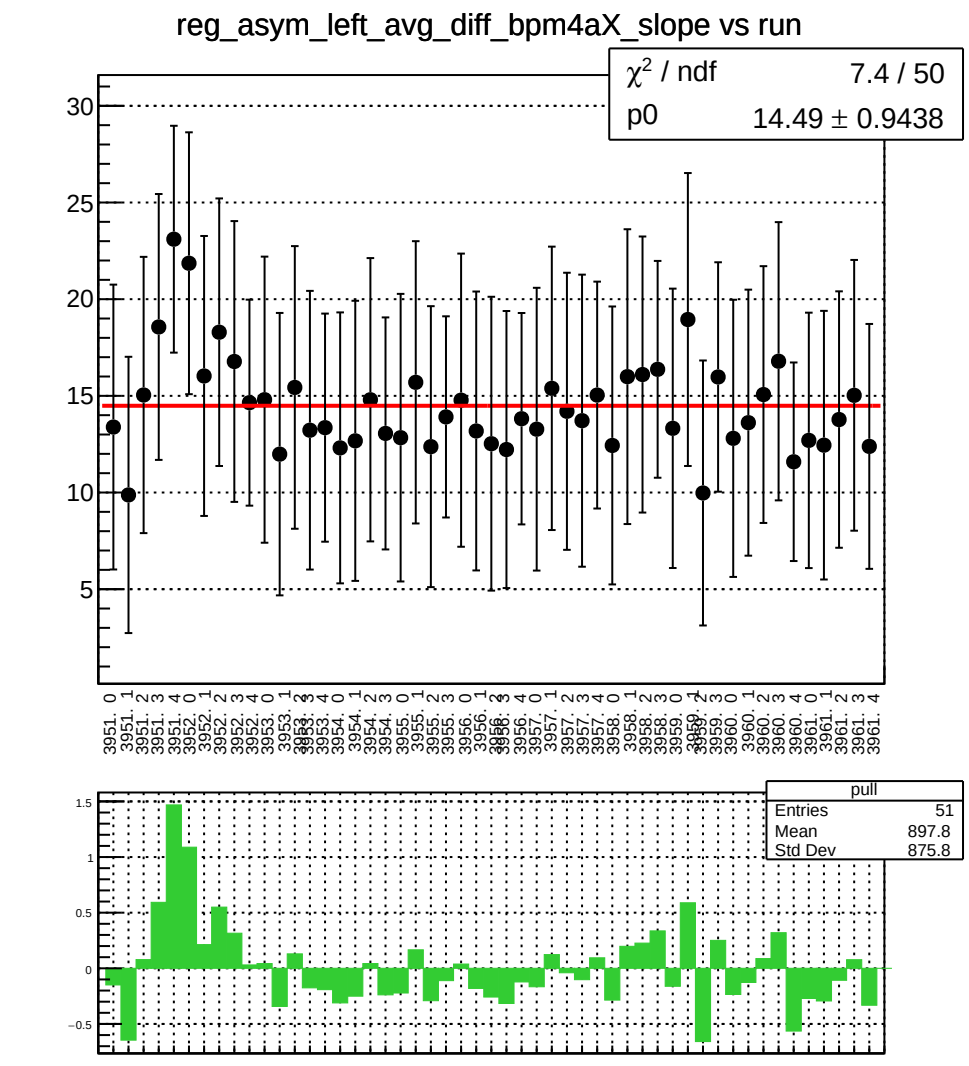

pull1D
Entries 51
Mean −0.00116
Std Dev 0.187

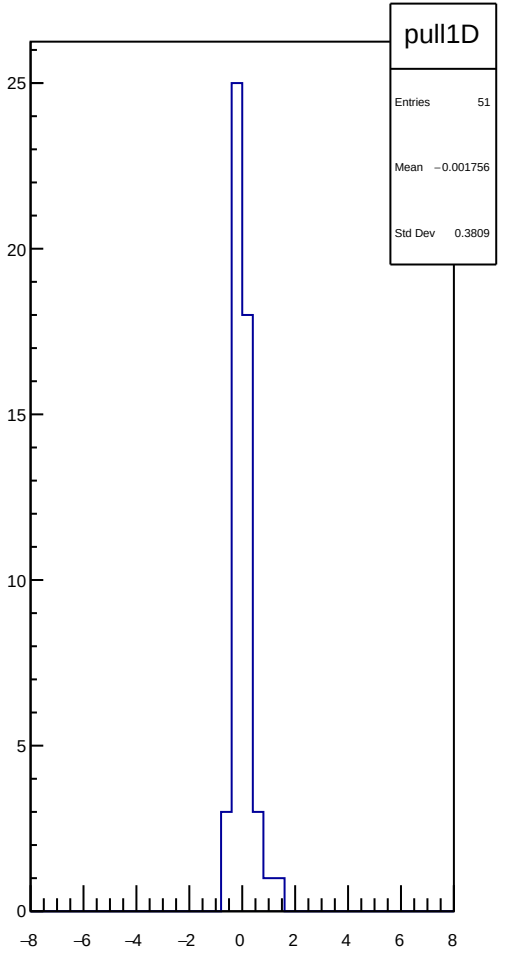

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.44 / 50
p0 −48.79 ± 0.1292
pull
Entries 51
Mean 830.7
Std Dev 810.2
pull1D
Entries 51
Mean −0.005436
Std Dev 0.4523

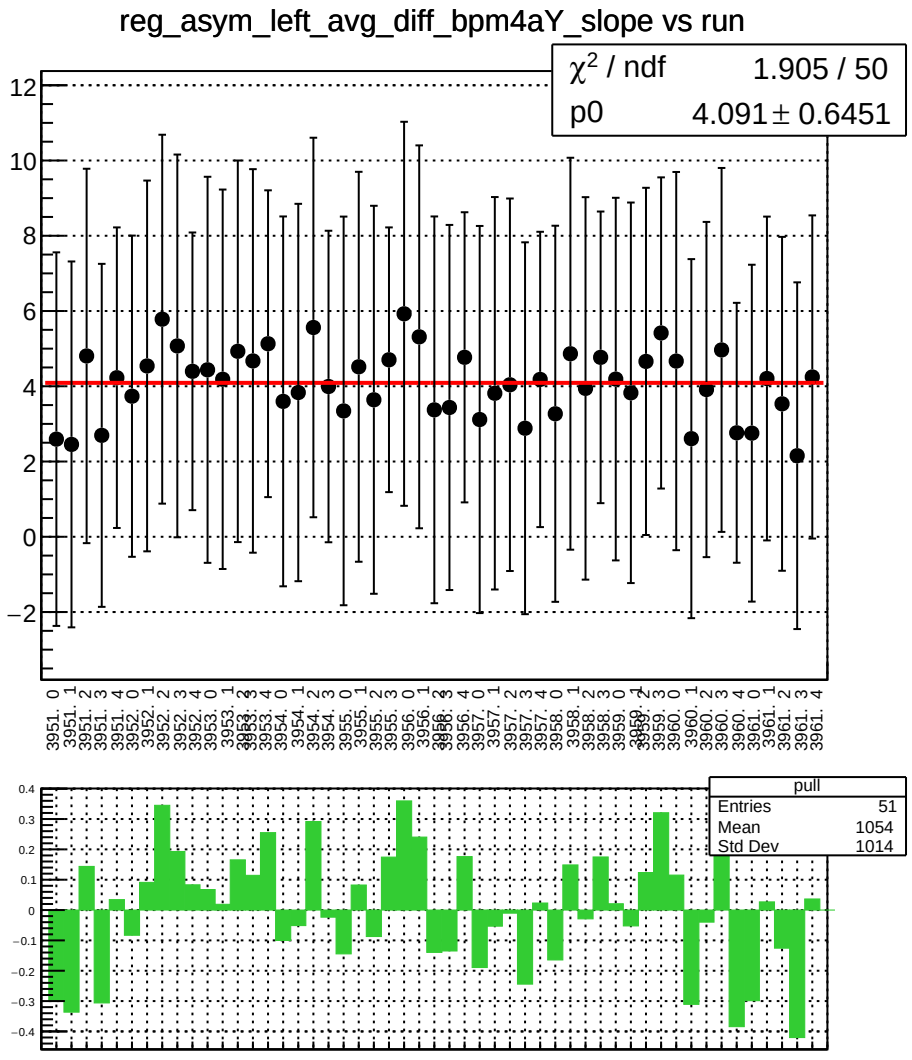

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.663 / 50
p0 3.141 ± 0.8666
pull
Entries 51
Mean −572.9
Std Dev 601.2

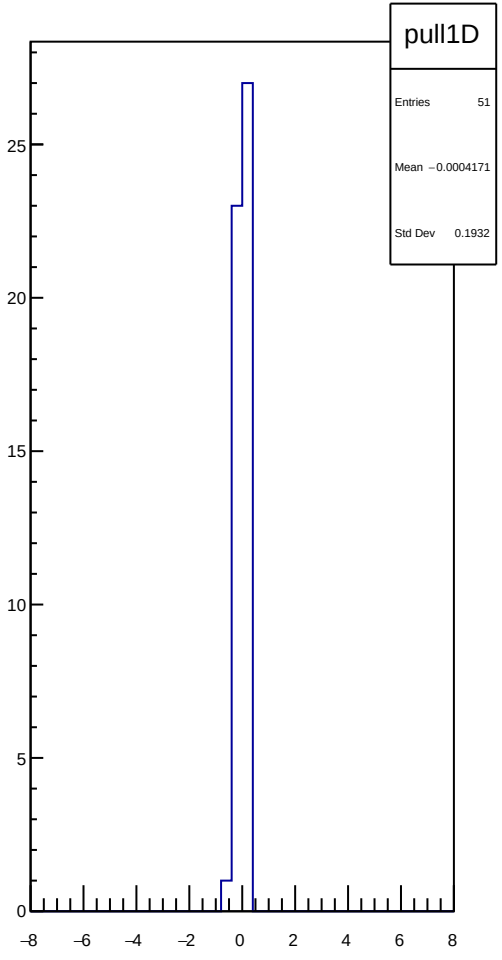

pull1D
Entries 51
Mean 0.0003666
Std Dev 0.1806

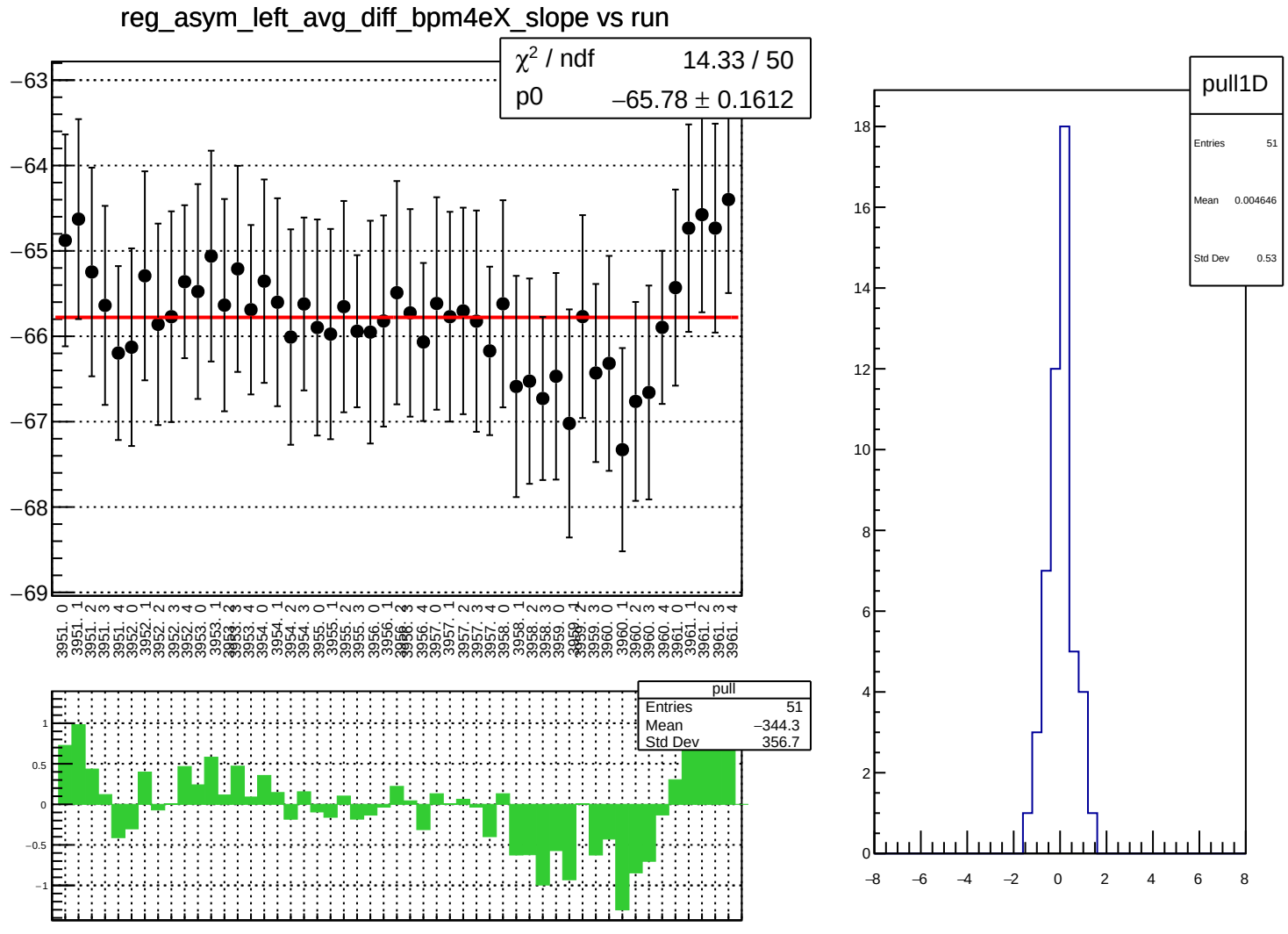

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 1.674 / 50
p0 3.283 ± 0.1334
pull
Entries 51
Mean 234.2
Std Dev 206.8
pull1D
Entries 51
Mean 0.003338
Std Dev 0.1811

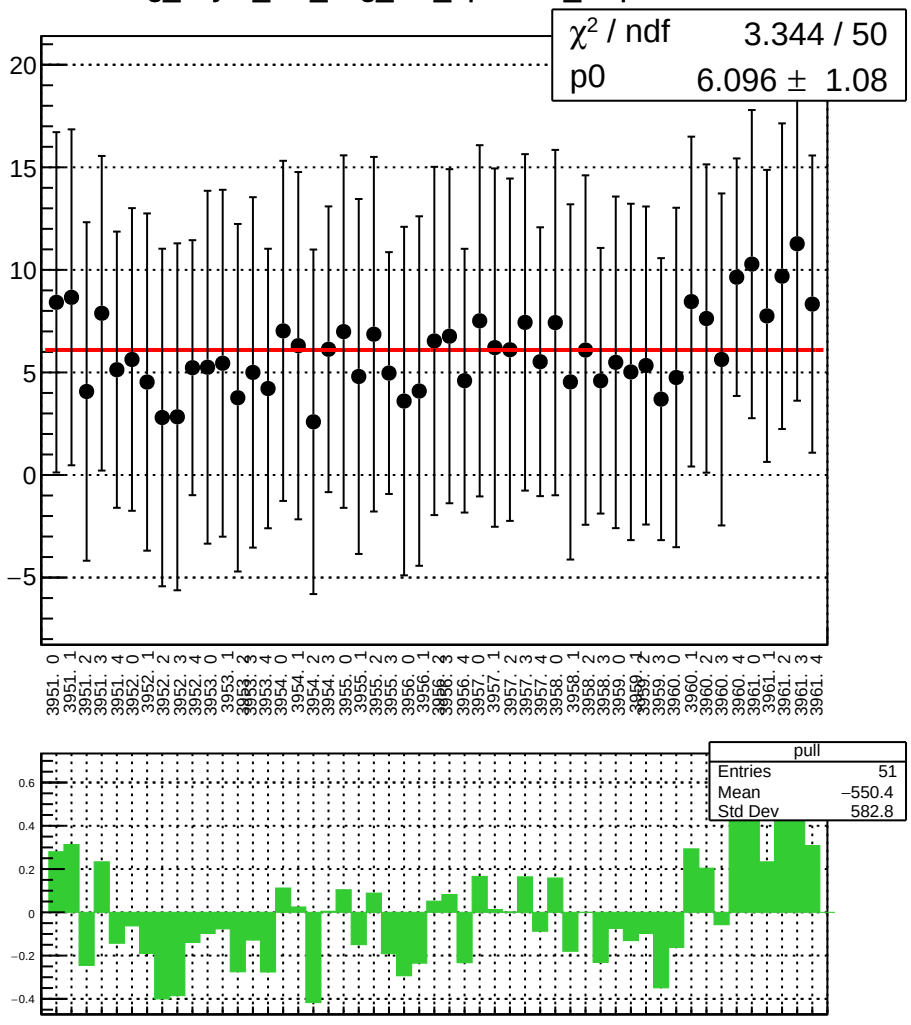

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.4 / 50
p0 14.49 ± 0.9438
pull
Entries 51
Mean 897.8
Std Dev 875.8

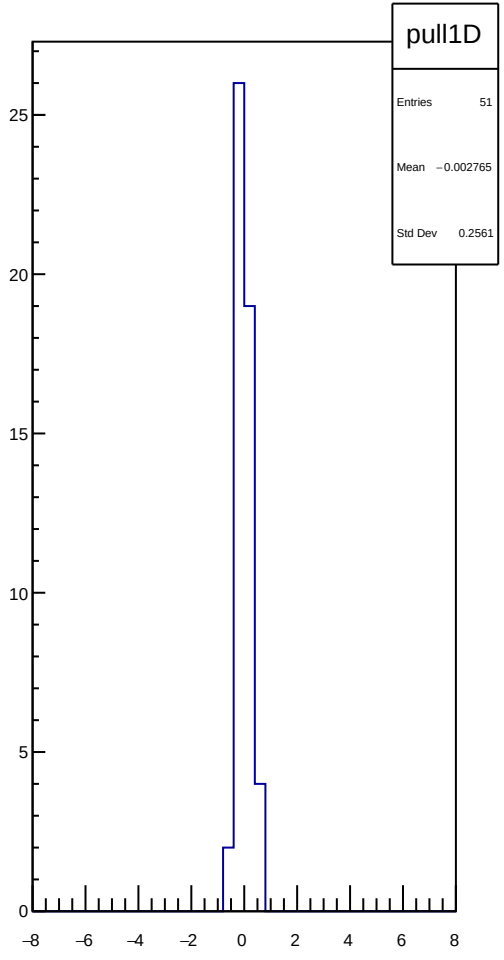

pull1D
Entries 51
Mean −0.001756
Std Dev 0.3809

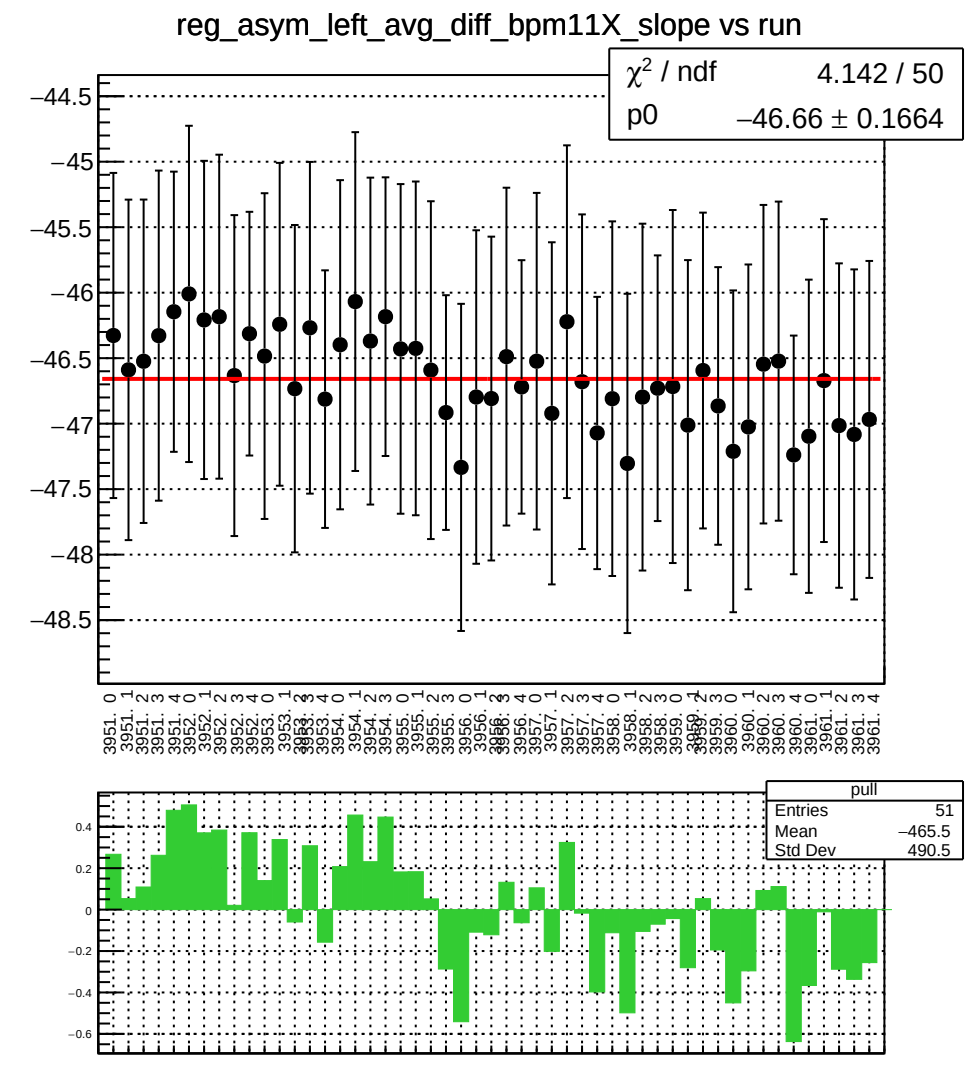

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.905 / 50
p0 4.091 ± 0.6451
pull
Entries 51
Mean 1054
Std Dev 1014

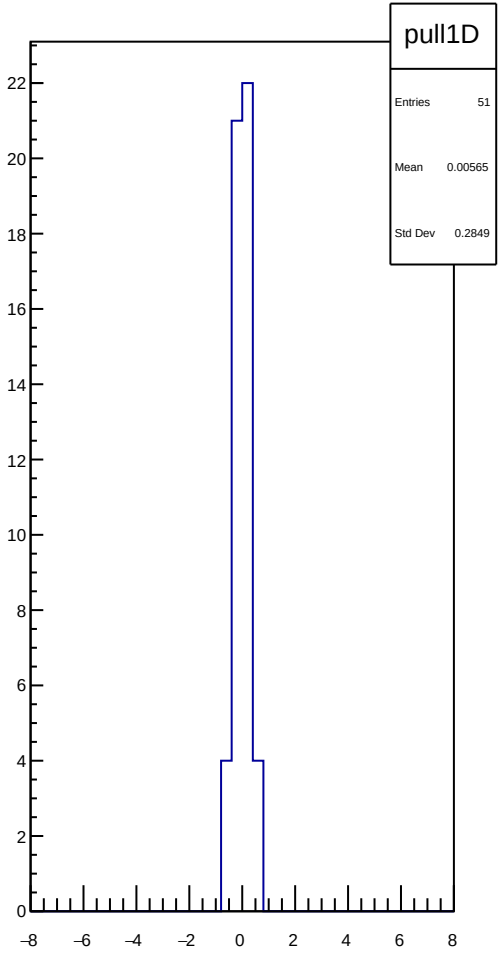

pull1D
Entries 51
Mean −0.0004171
Std Dev 0.1932

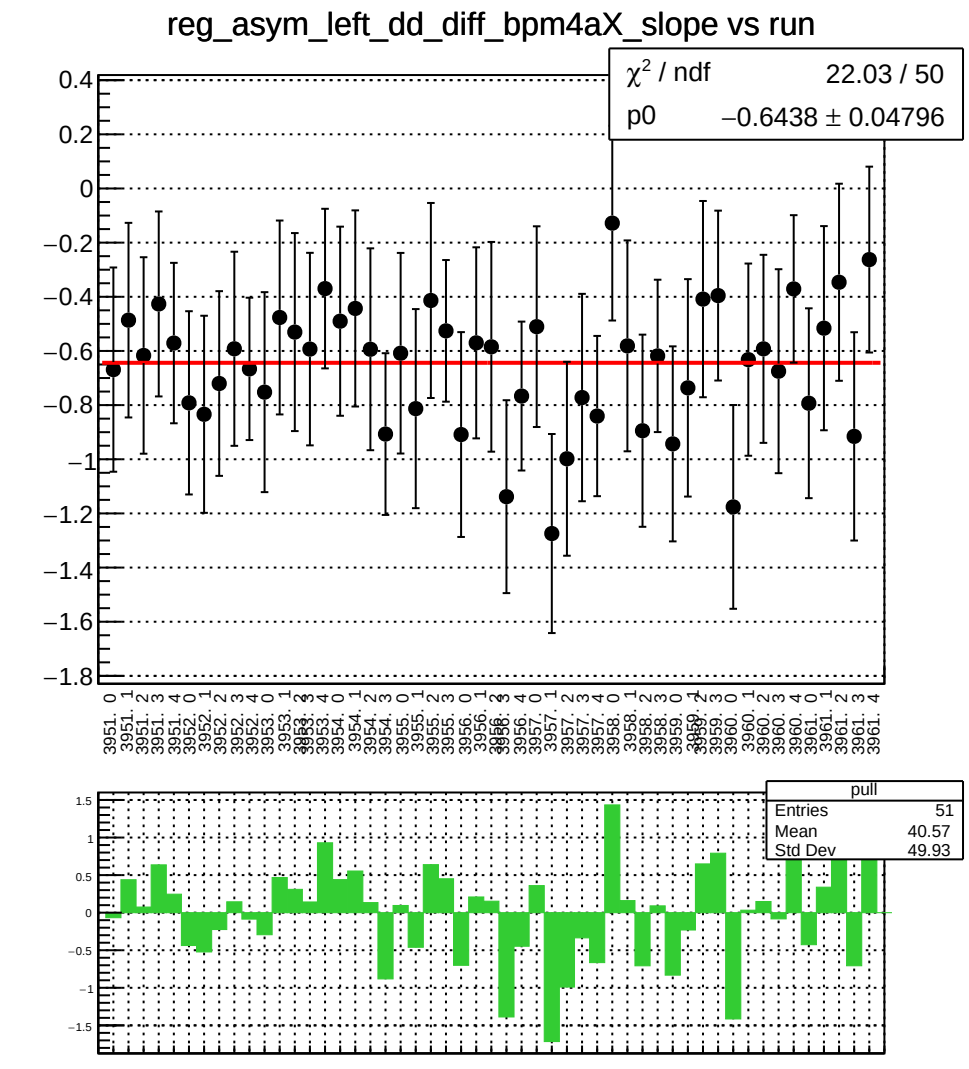

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.33 / 50
p0 −65.78 ± 0.1612
pull
Entries 51
Mean −344.3
Std Dev 356.7
pull1D
Entries 51
Mean 0.004646
Std Dev 0.53

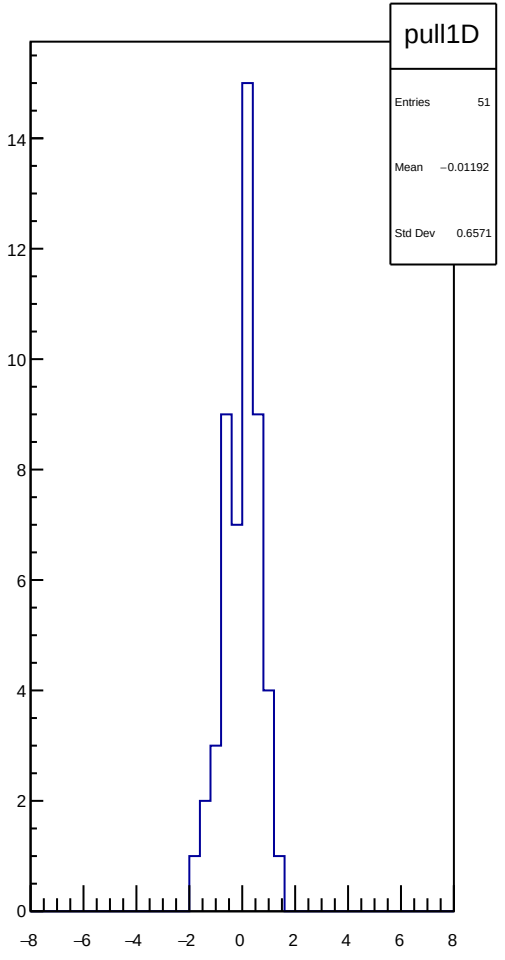

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.344 / 50
p0 6.096 ± 1.08
pull
Entries 51
Mean −550.4
Std Dev 582.8

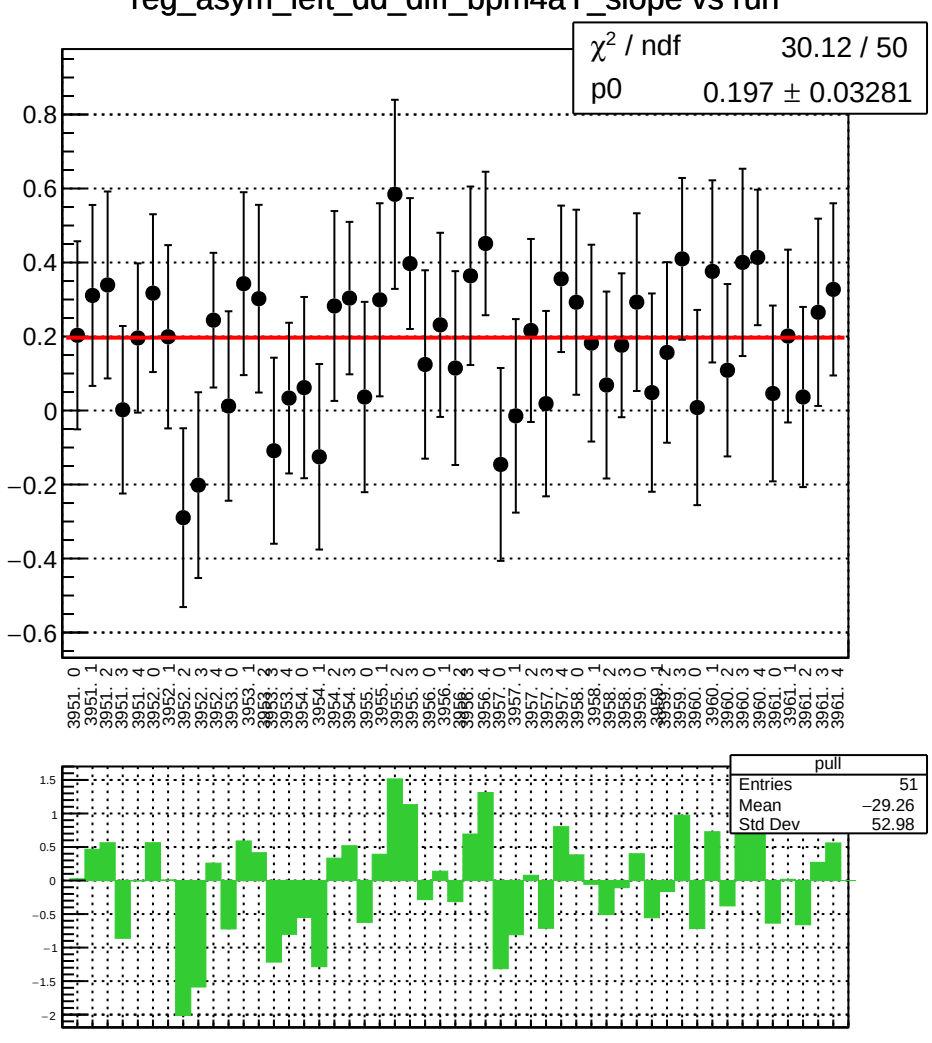

pull1D
Entries 51
Mean −0.002765
Std Dev 0.2561

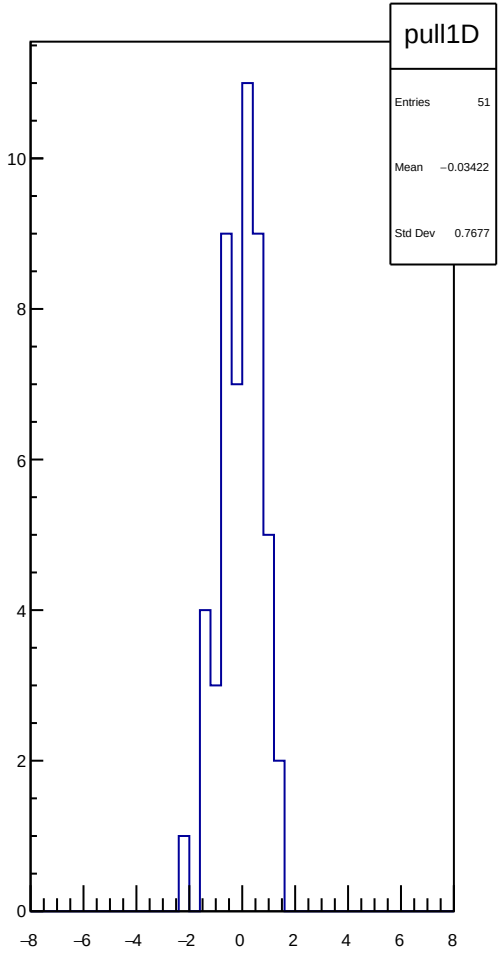

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 4.142 / 50
p0 −46.66 ± 0.1664
pull
Entries 51
Mean −465.5
Std Dev 490.5

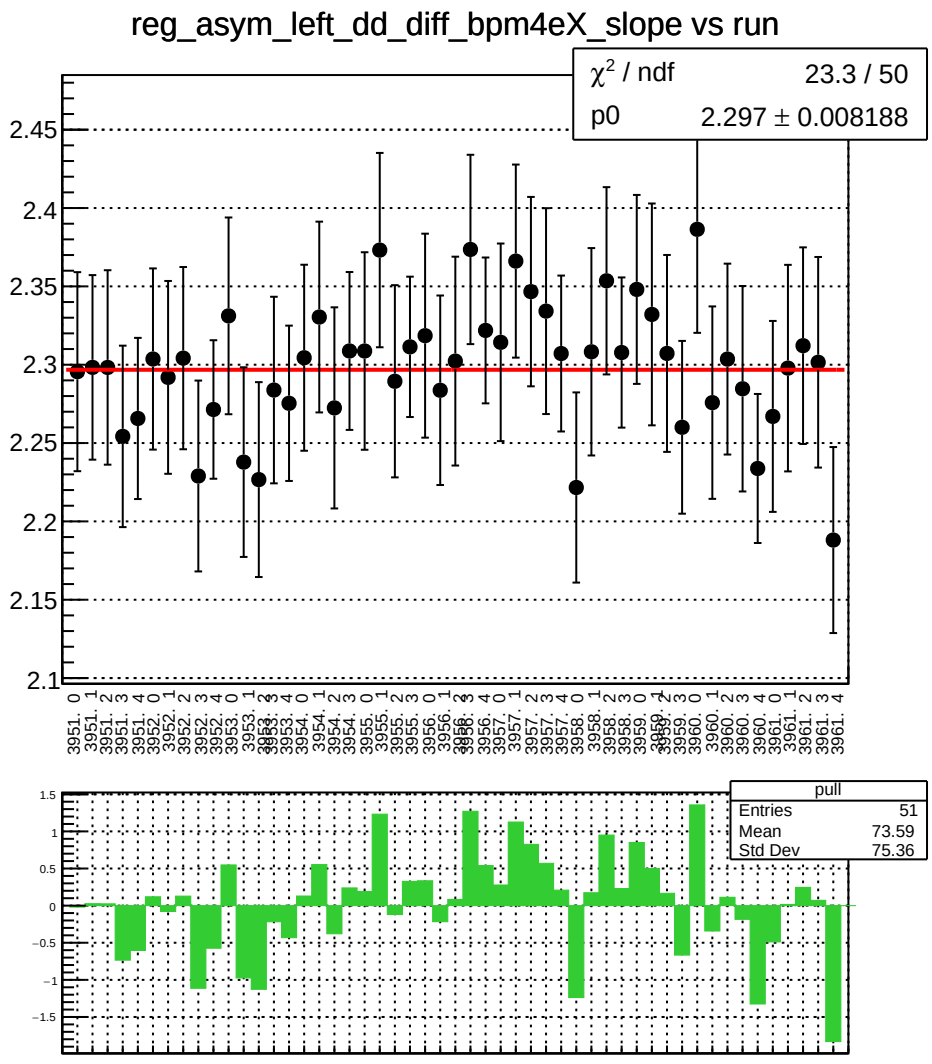

pull1D
Entries 51
Mean 0.00565
Std Dev 0.2849

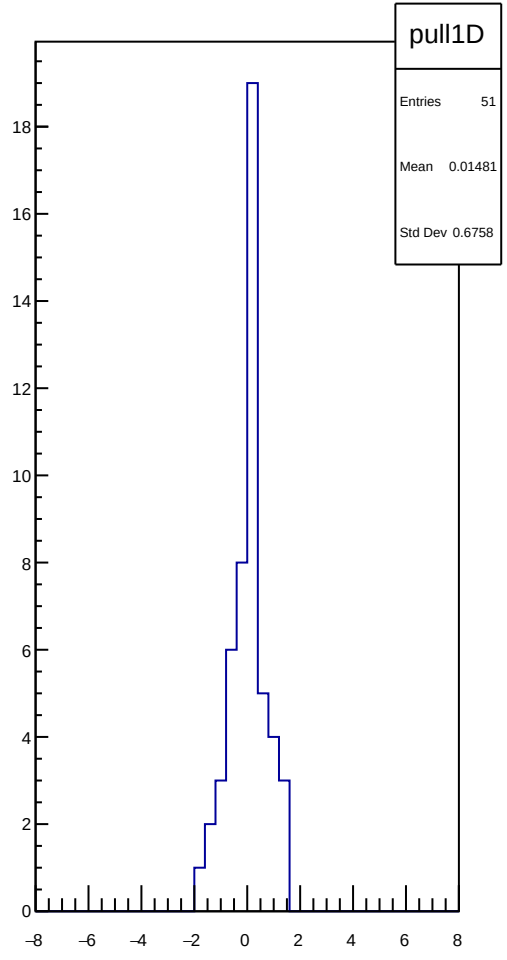

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.03 / 50
p0 −0.6438 ± 0.04796
pull
Entries 51
Mean 40.57
Std Dev 49.93

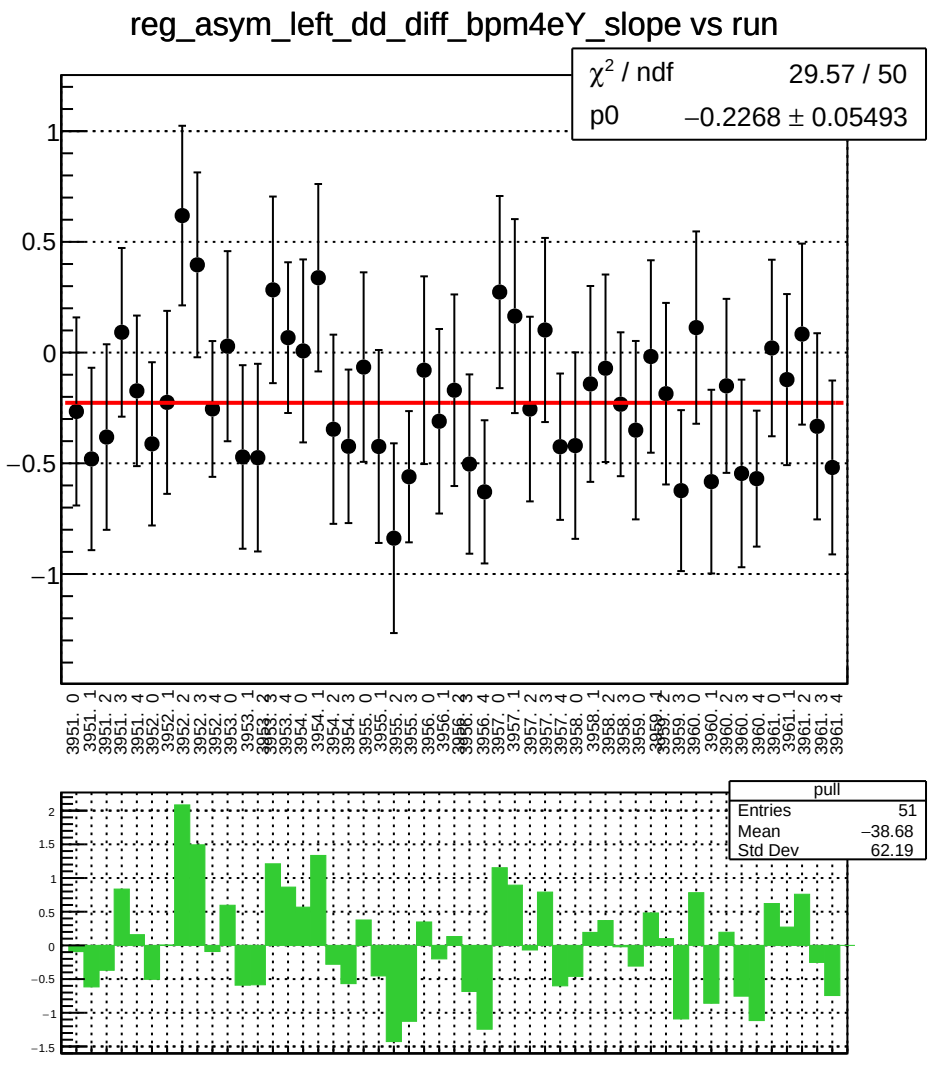

pull1D
Entries 51
Mean −0.01192
Std Dev 0.6571

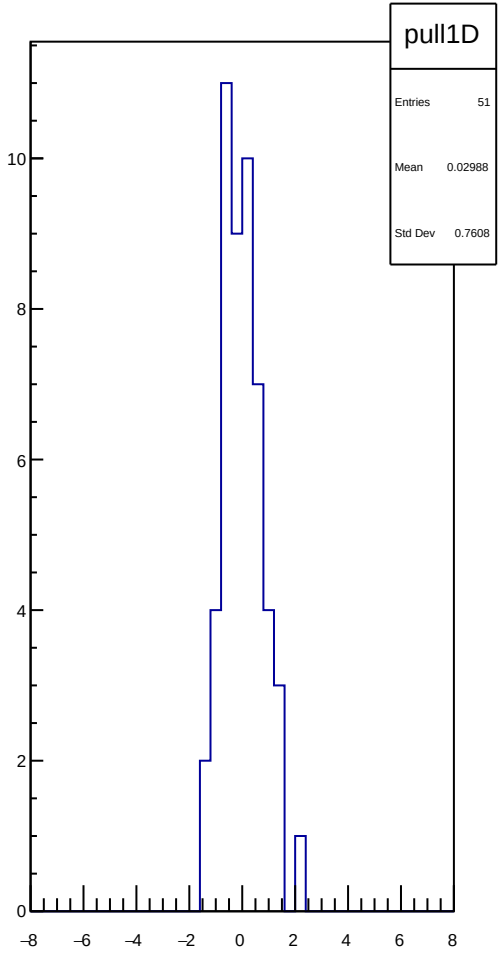

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.12 / 50
p0 0.197 ± 0.03281
pull
Entries 51
Mean −29.26
Std Dev 52.98

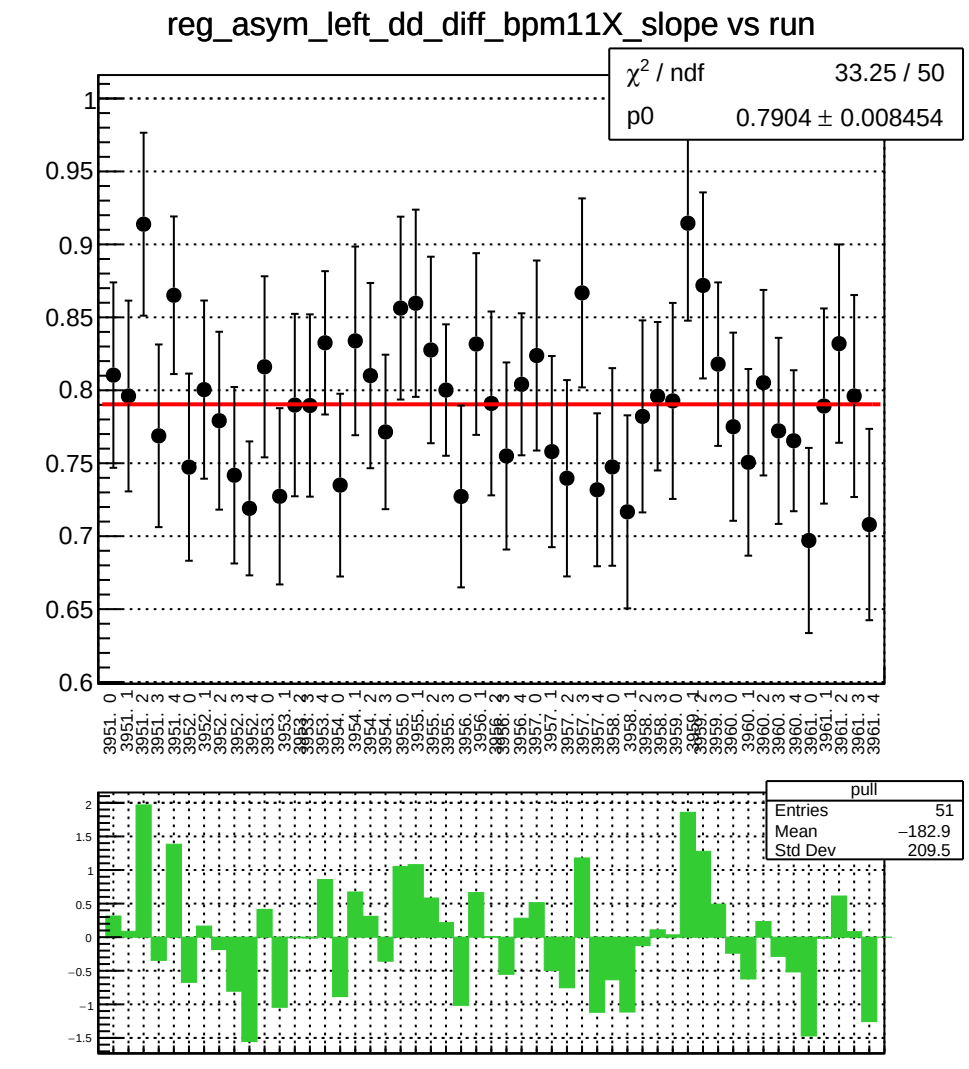

pull1D
Entries 51
Mean −0.03422
Std Dev 0.7677

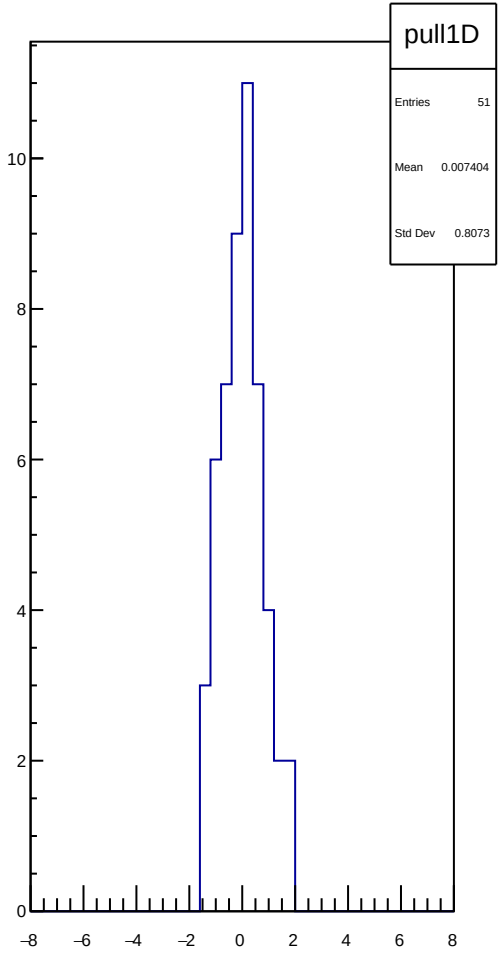

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.3 / 50
p0 2.297 ± 0.008188
2.45
2.4
2.35
2.3
2.25
2.2
2.15
2.1
pull
Entries 51
Mean 73.59
Std Dev 75.36
1.5
1
0.5
0
−0.5
−1
−1.5

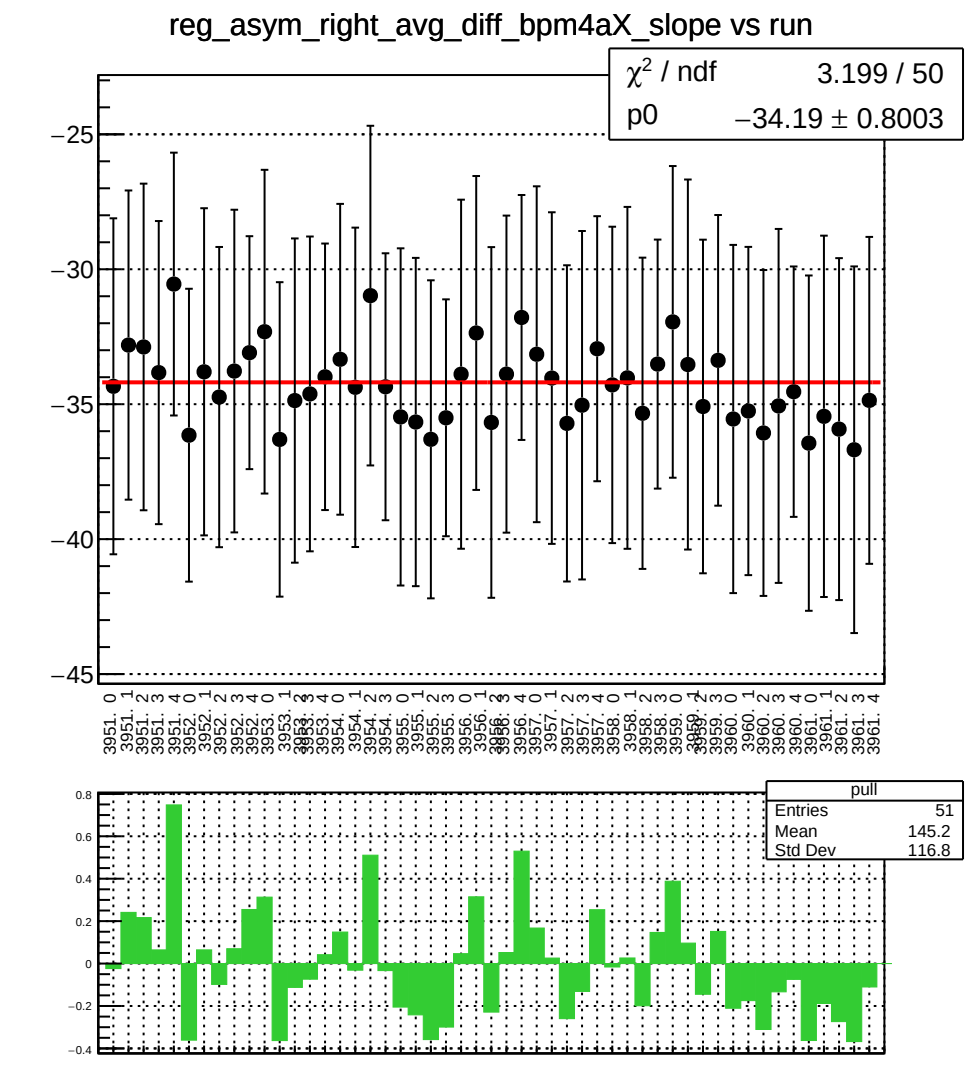

pull1D
Entries 51
Mean 0.01481
Std Dev 0.6758
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

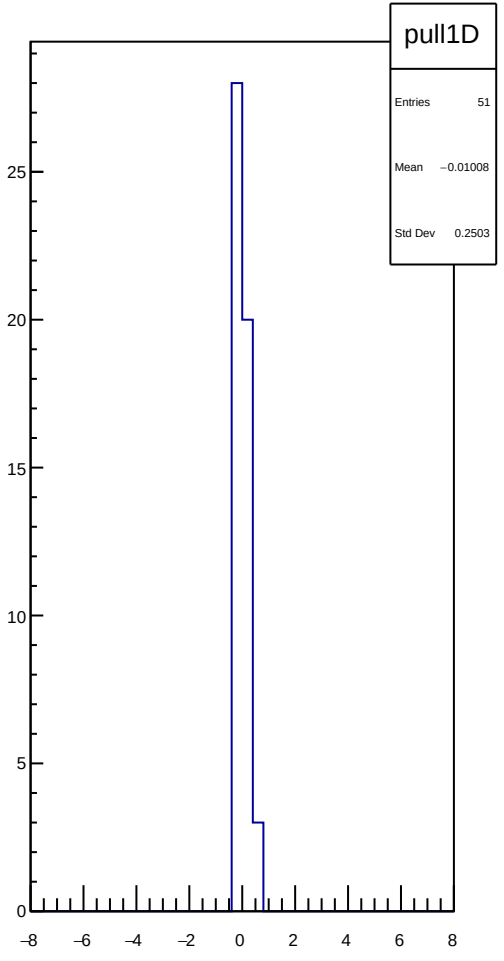

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.57 / 50
p0 −0.2268 ± 0.05493
pull
Entries 51
Mean −38.68
Std Dev 62.19

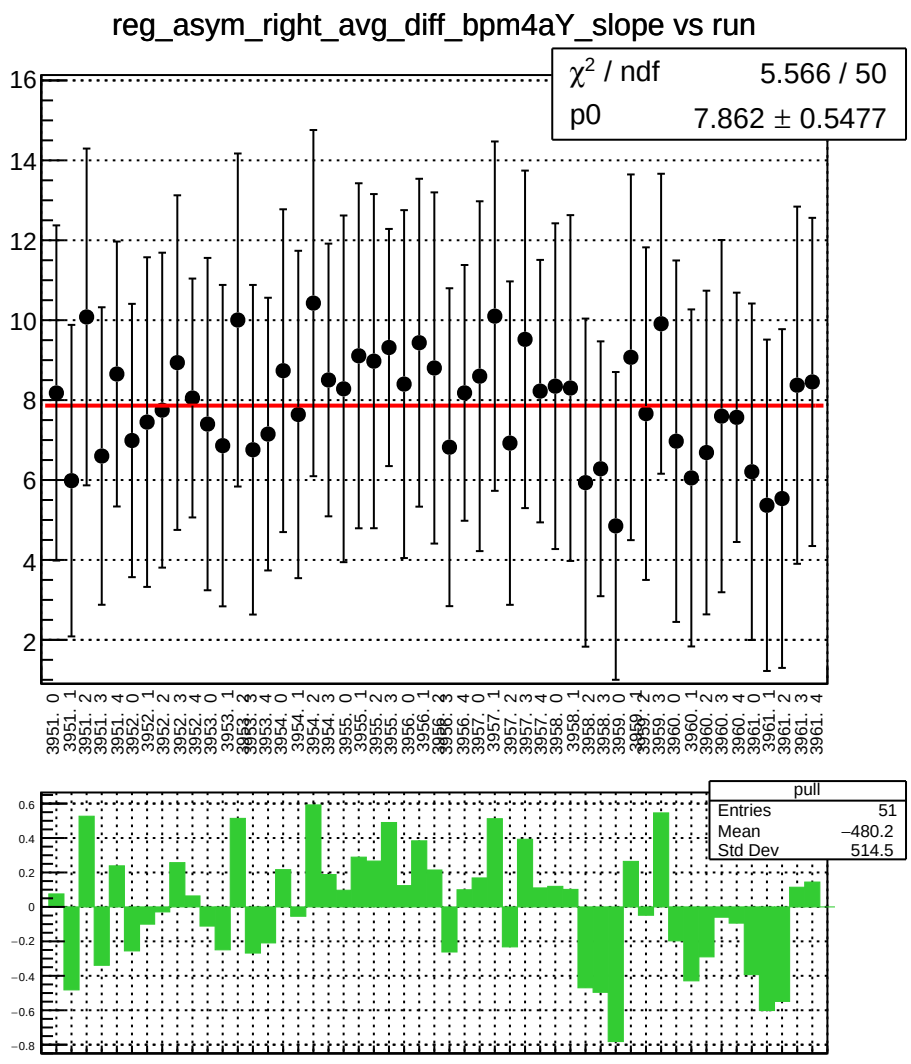

pull1D
Entries 51
Mean 0.02988
Std Dev 0.7608

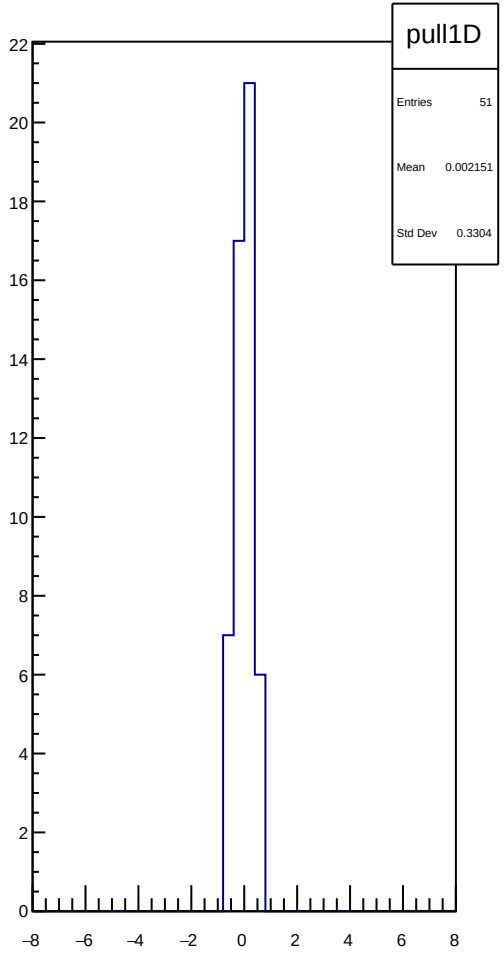

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 33.25 / 50
p0 0.7904 ± 0.008454
pull
Entries 51
Mean −182.9
Std Dev 209.5

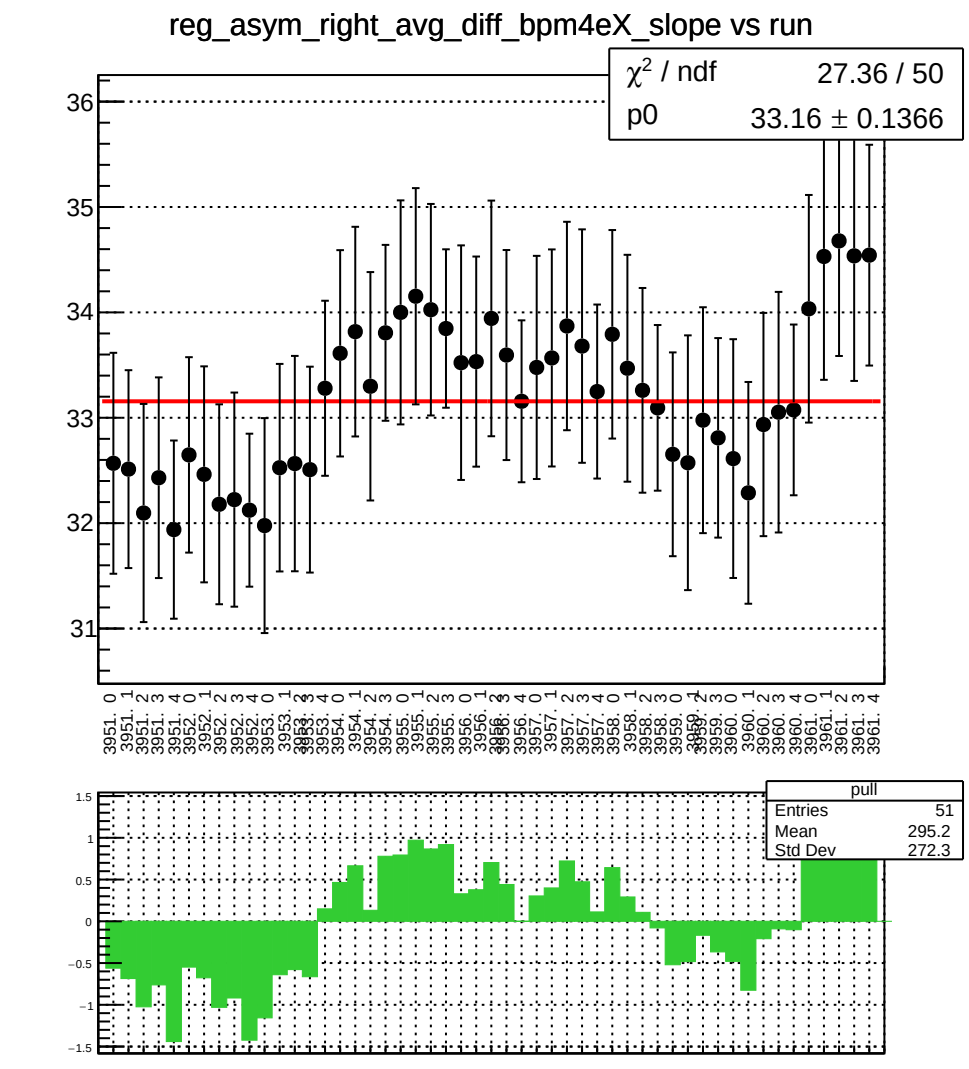

pull1D
Entries 51
Mean 0.007404
Std Dev 0.8073

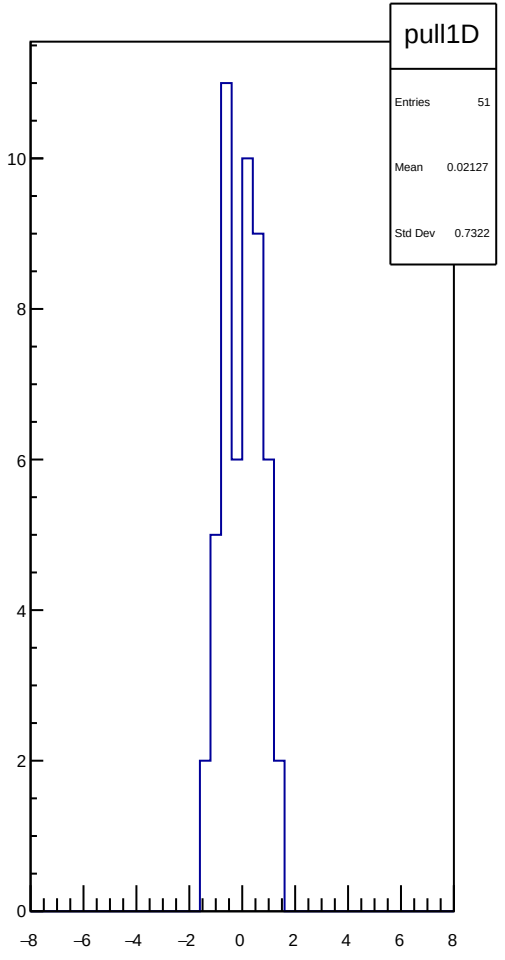

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.199 / 50
p0 −34.19 ± 0.8003
pull
Entries 51
Mean 145.2
Std Dev 116.8

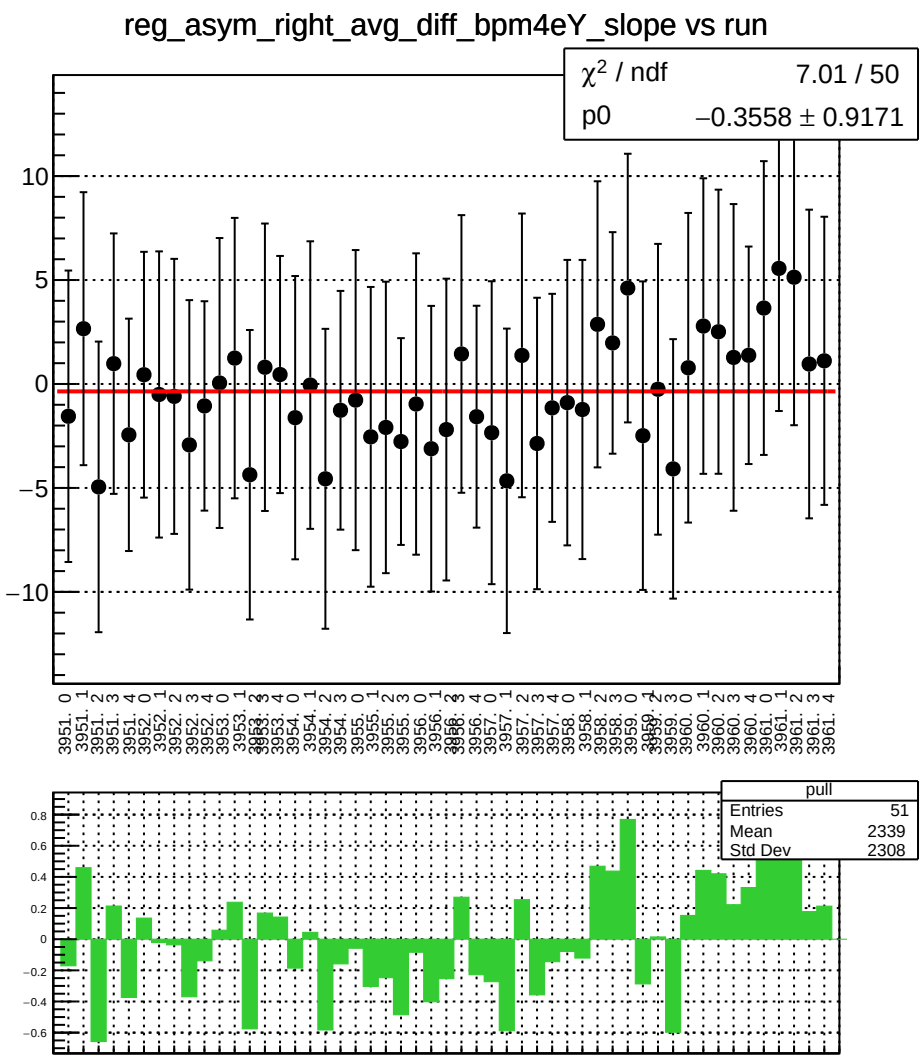

pull1D
Entries 51
Mean −0.01008
Std Dev 0.2503

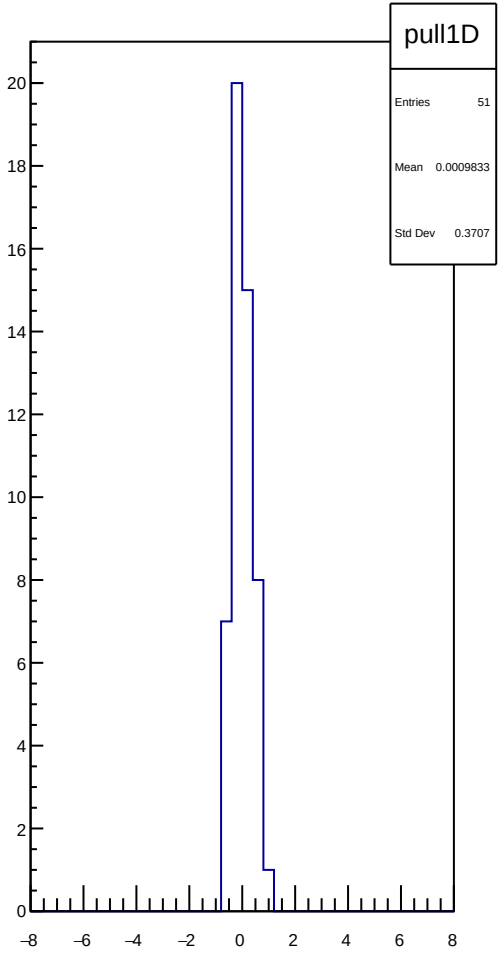

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.566 / 50
p0 7.862 ± 0.5477
pull
Entries 51
Mean −480.2
Std Dev 514.5

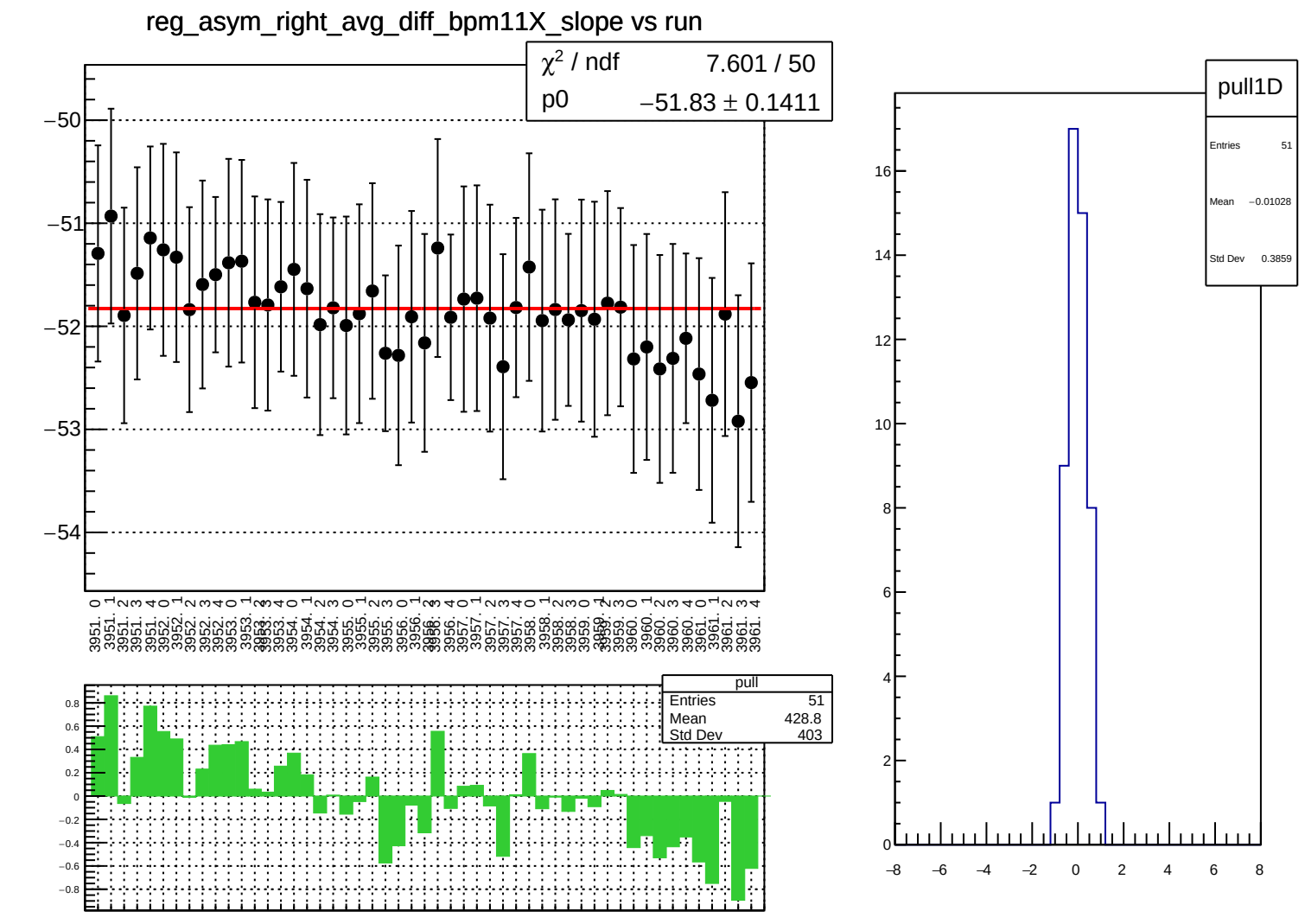

pull1D
Entries 51
Mean 0.002151
Std Dev 0.3304

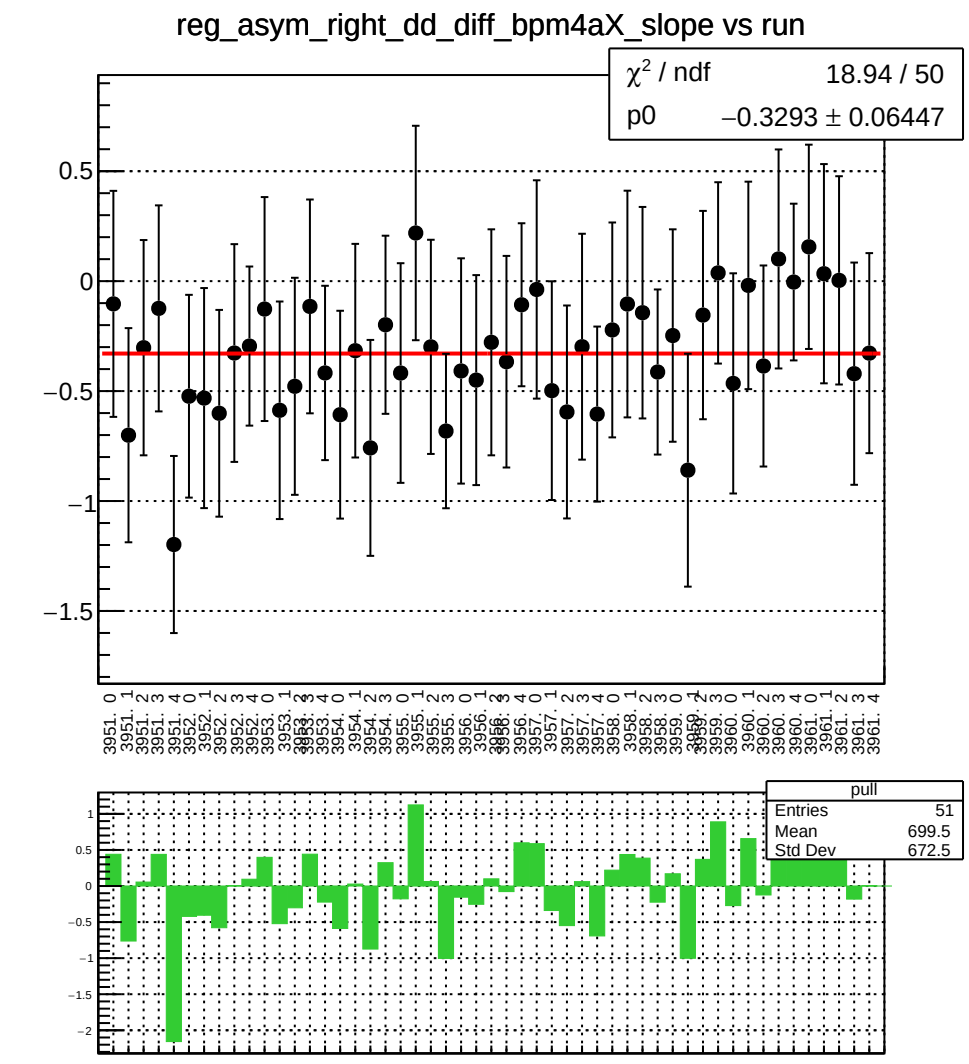

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.36 / 50
p0 33.16 ± 0.1366
pull
Entries 51
Mean 295.2
Std Dev 272.3

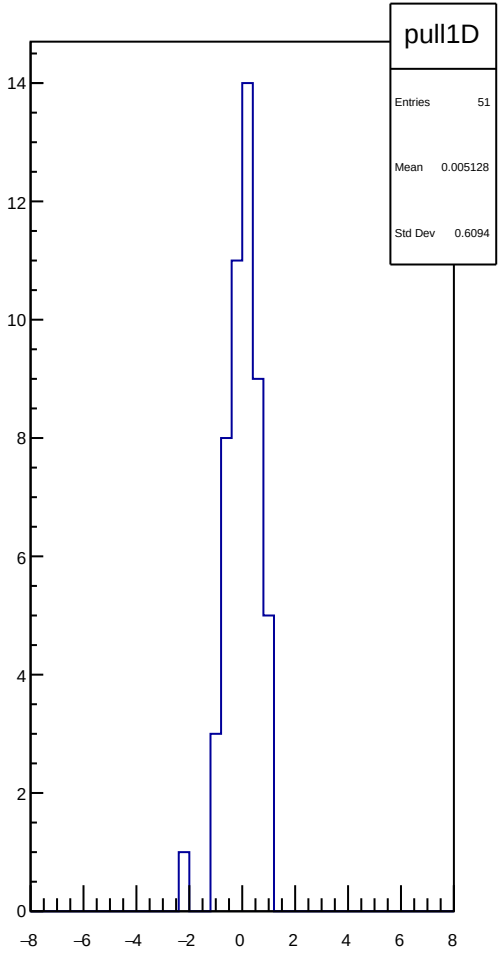

pull1D
Entries 51
Mean 0.02127
Std Dev 0.7322

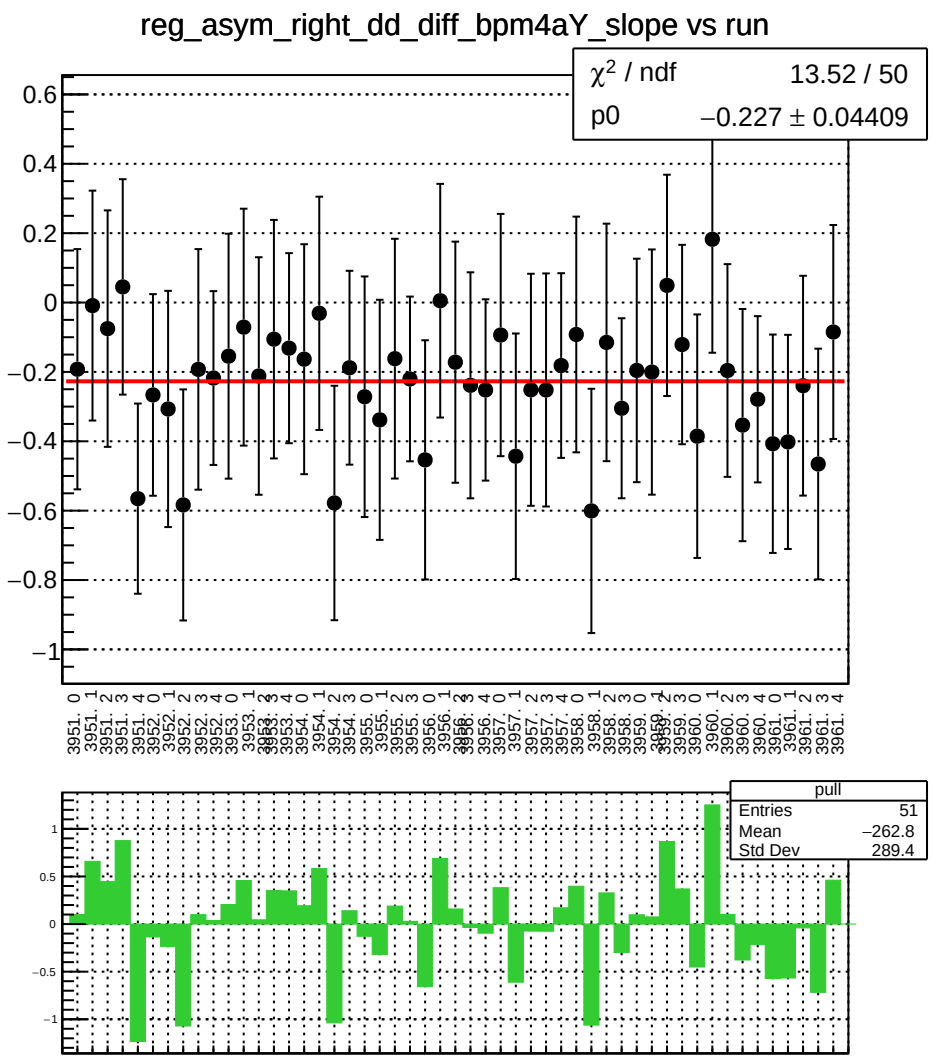

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.01 / 50
p0 −0.3558 ± 0.9171
pull
Entries 51
Mean 2339
Std Dev 2308

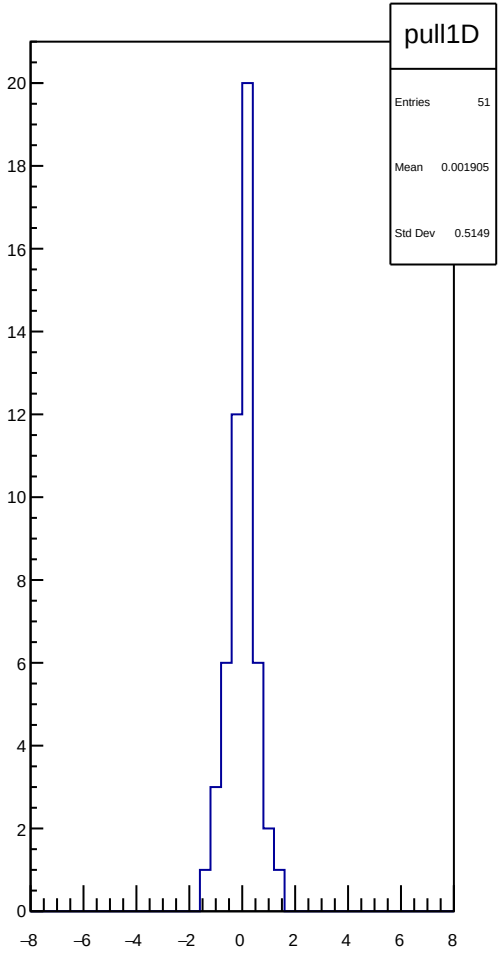

pull1D
Entries 51
Mean 0.0009833
Std Dev 0.3707

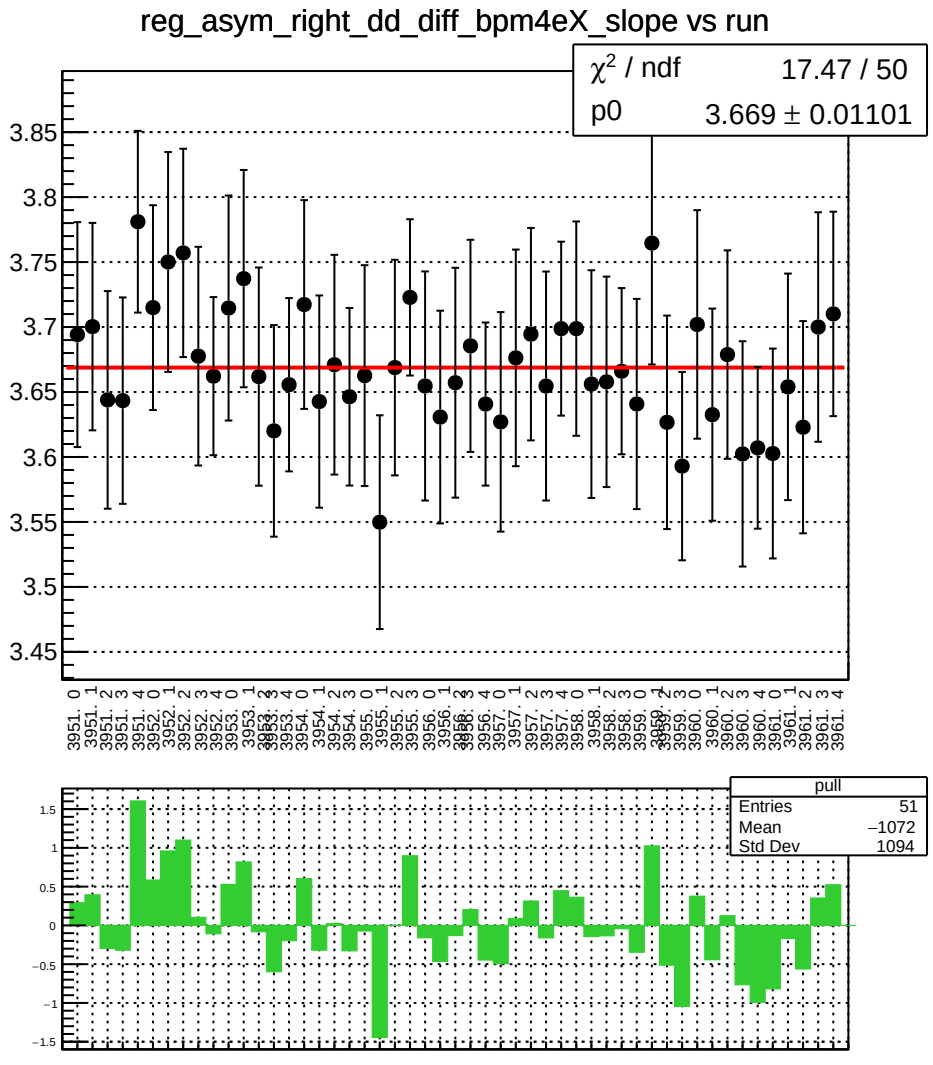

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 7.601 / 50
p0 −51.83 ± 0.1411
pull
Entries 51
Mean 428.8
Std Dev 403
pull1D
Entries 51
Mean −0.01028
Std Dev 0.3859

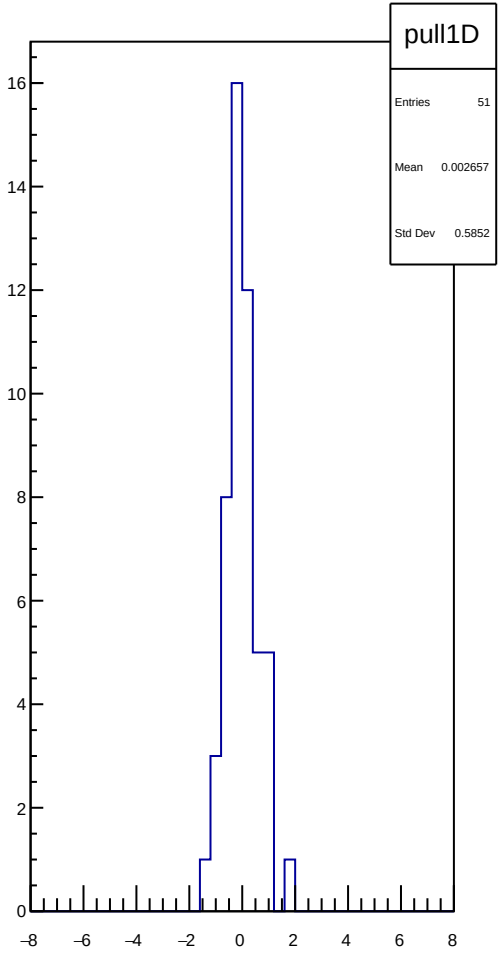

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.94 / 50
p0 −0.3293 ± 0.06447
pull
Entries 51
Mean 699.5
Std Dev 672.5

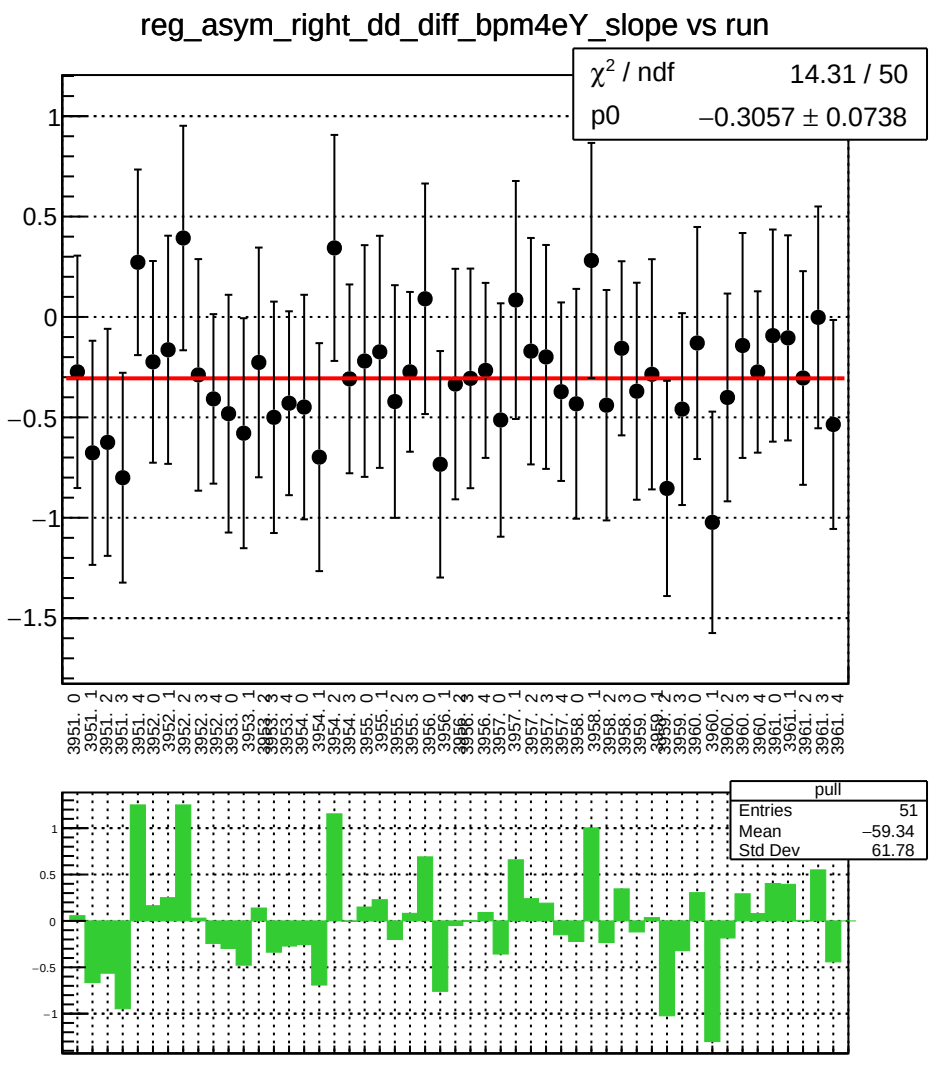

pull1D
Entries 51
Mean 0.005128
Std Dev 0.6094

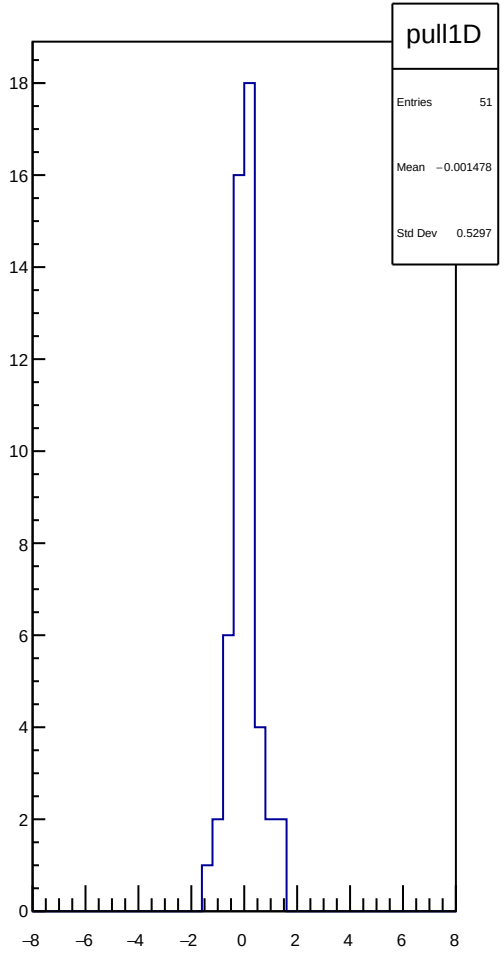

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.52 / 50
p0 −0.227 ± 0.04409
pull
Entries 51
Mean −262.8
Std Dev 289.4

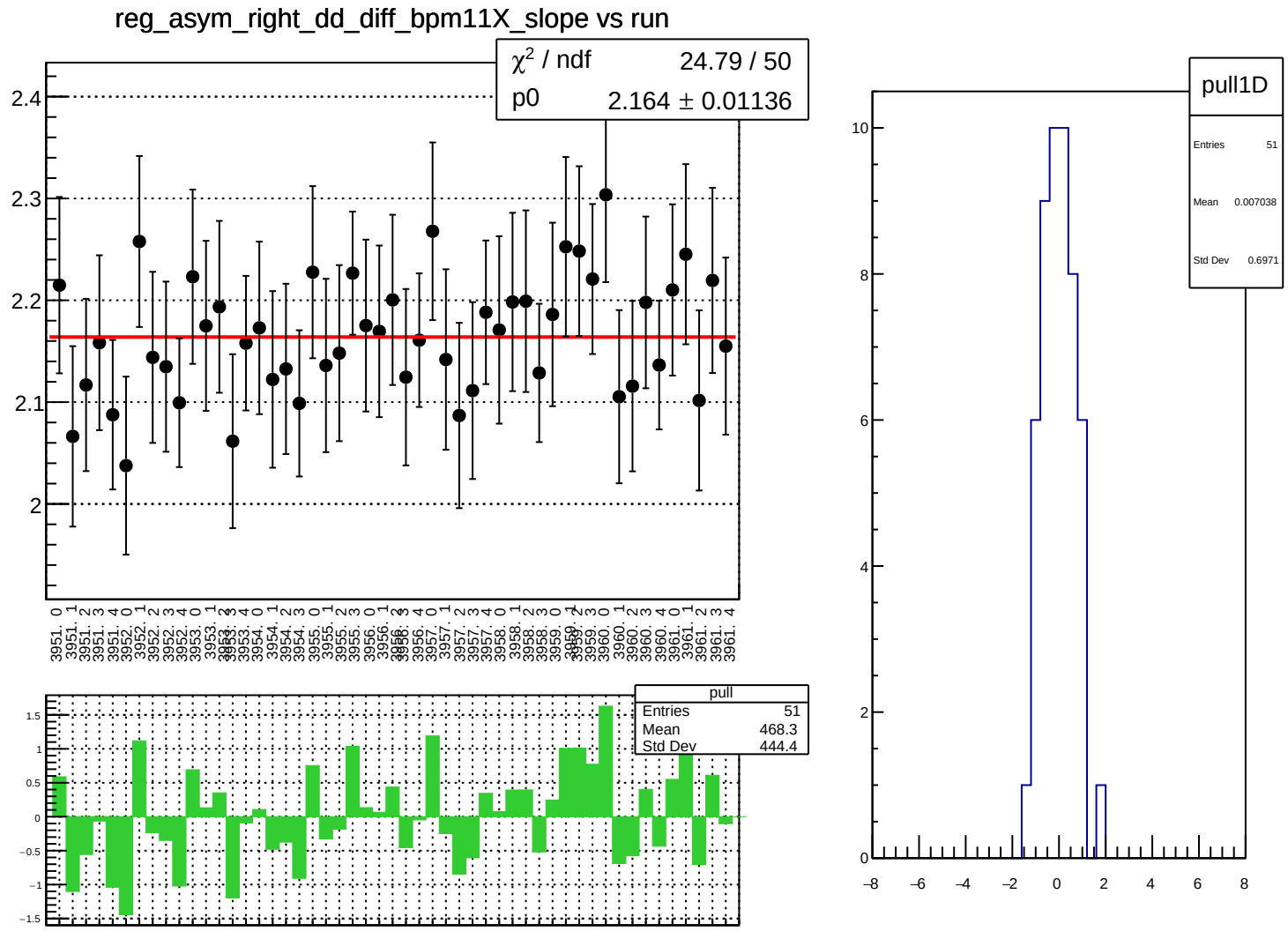

pull1D
Entries 51
Mean 0.001905
Std Dev 0.5149

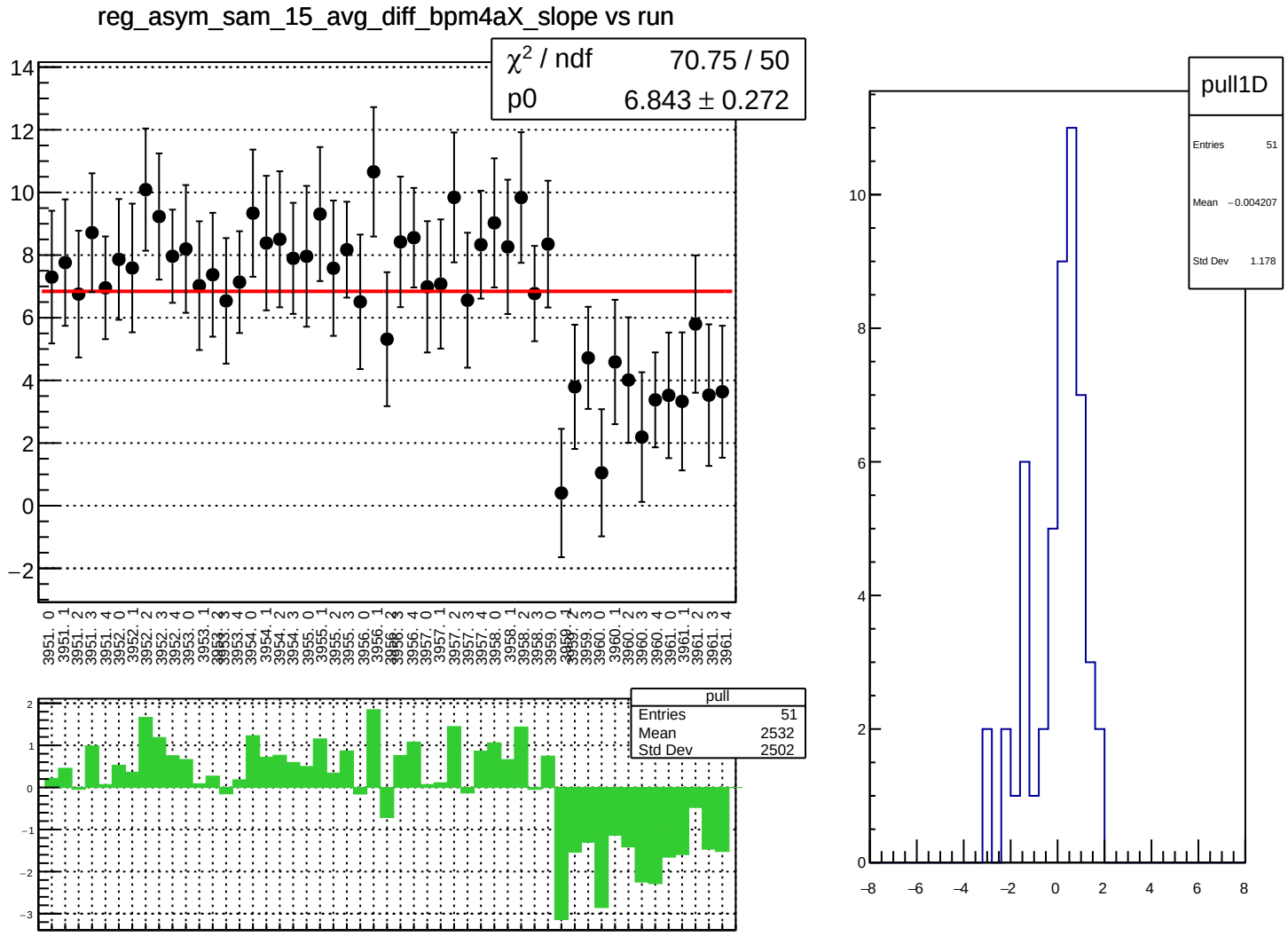

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.47 / 50
p0 3.669 ± 0.01101
pull
Entries 51
Mean −1072
Std Dev 1094

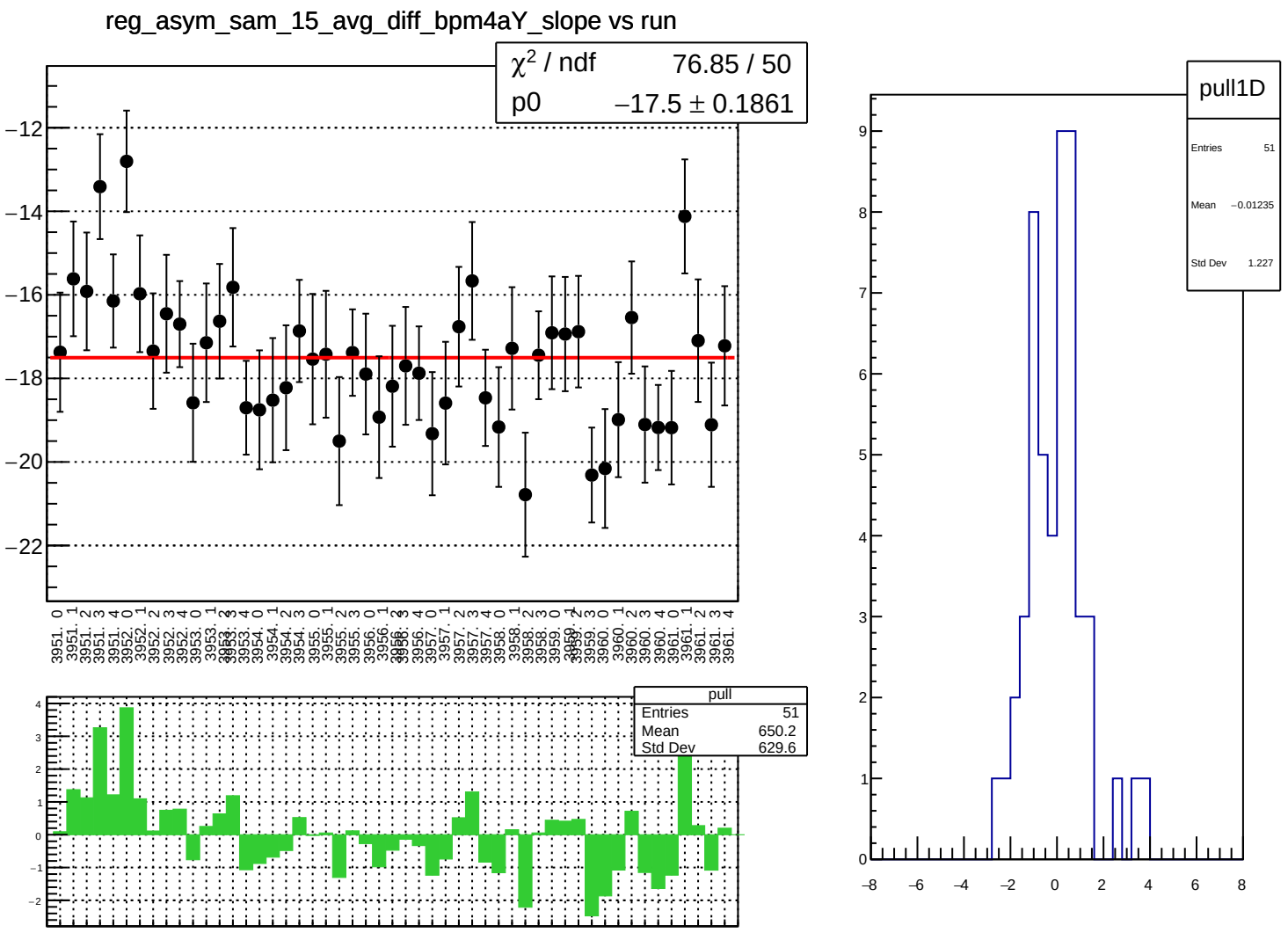

pull1D
Entries 51
Mean 0.002657
Std Dev 0.5852

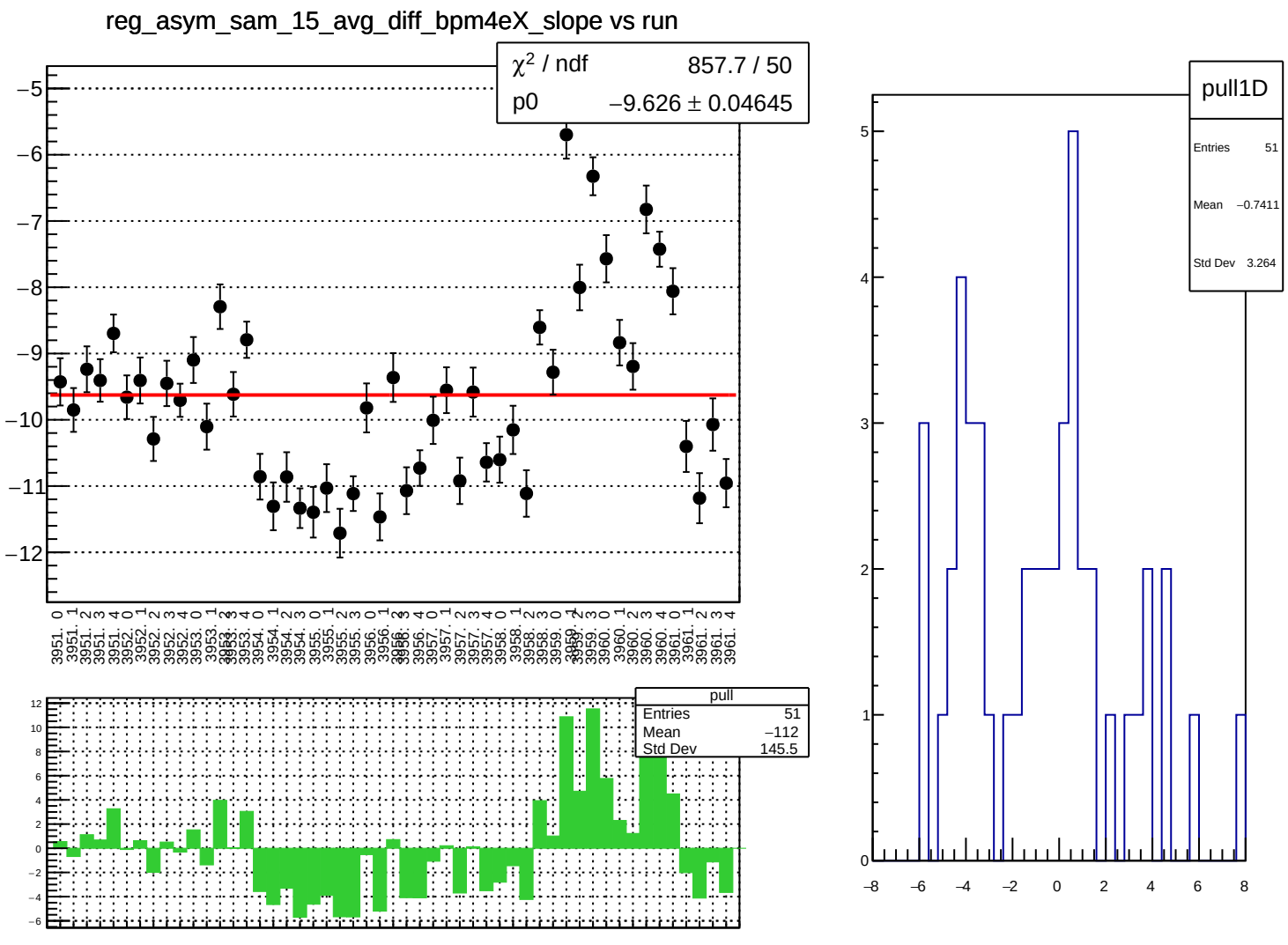

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.31 / 50
p0 −0.3057 ± 0.0738
pull
Entries 51
Mean −59.34
Std Dev 61.78

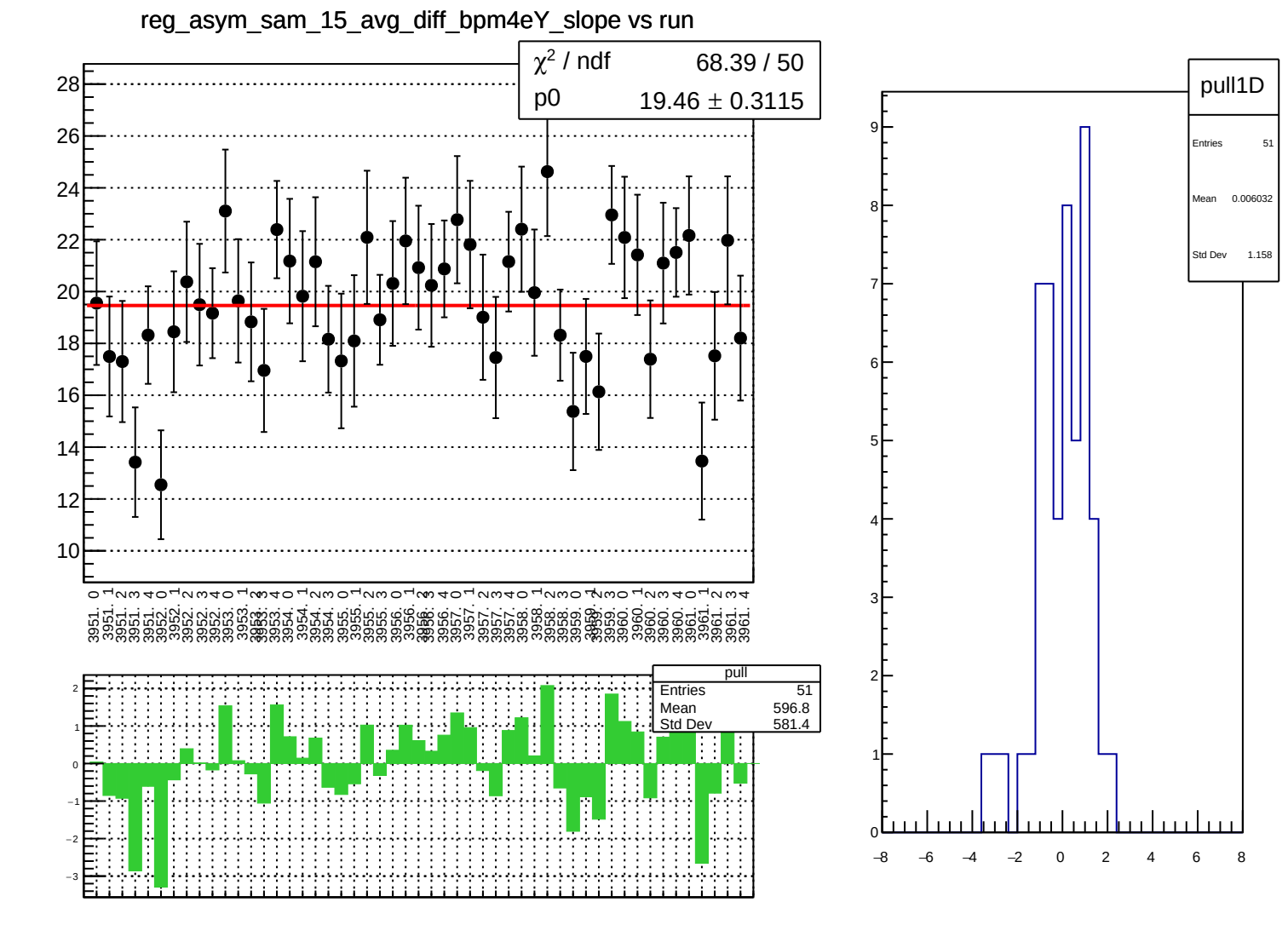

pull1D
Entries 51
Mean −0.001478
Std Dev 0.5297

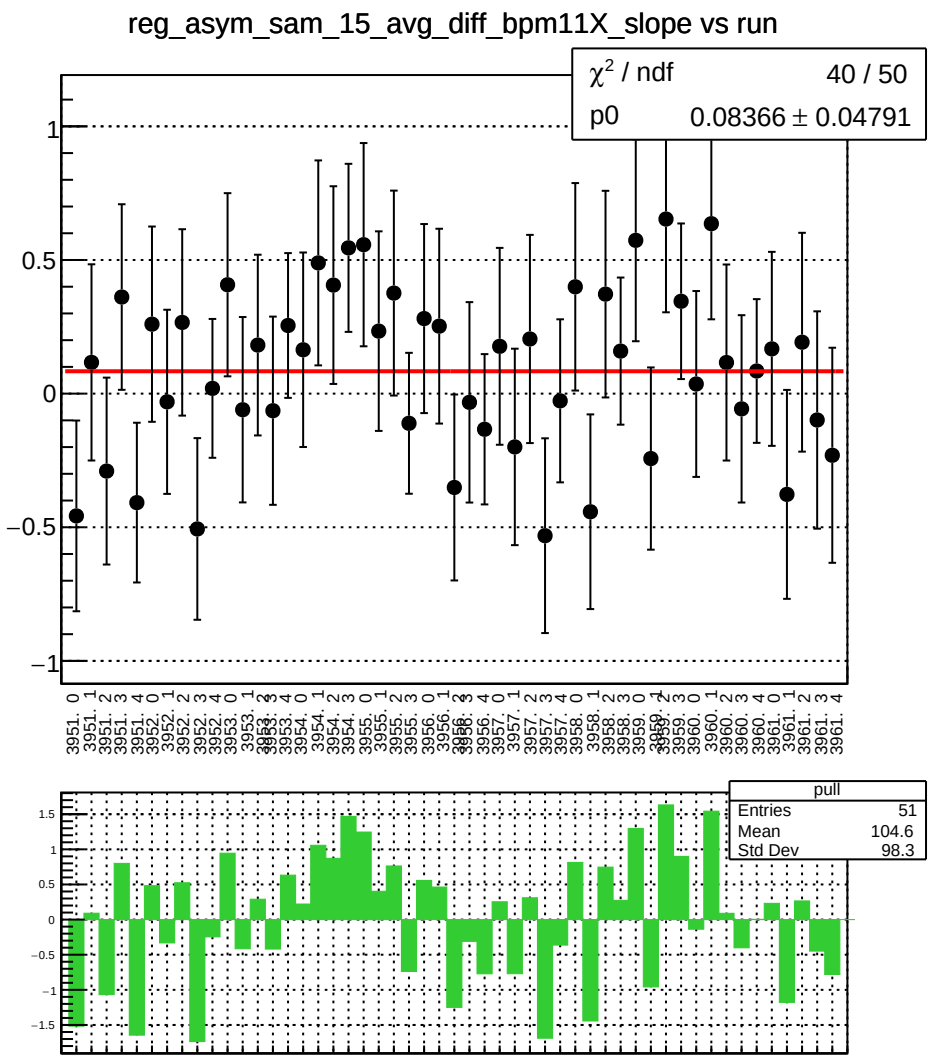

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 24.79 / 50
p0 2.164 ± 0.01136
pull
Entries 51
Mean 468.3
Std Dev 444.4
pull1D
Entries 51
Mean 0.007038
Std Dev 0.6971

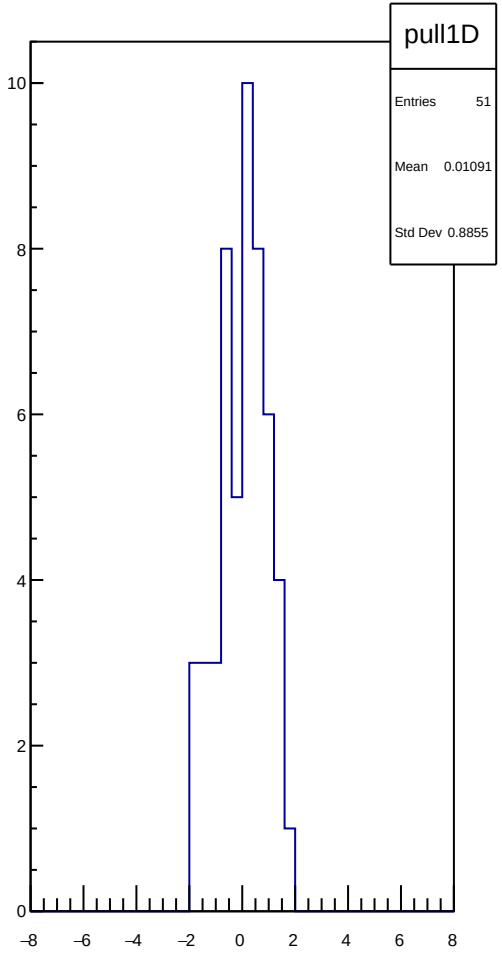

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 70.75 / 50
p0 6.843 ± 0.272
pull
Entries 51
Mean 2532
Std Dev 2502
pull1D
Entries 51
Mean −0.004207
Std Dev 1.178

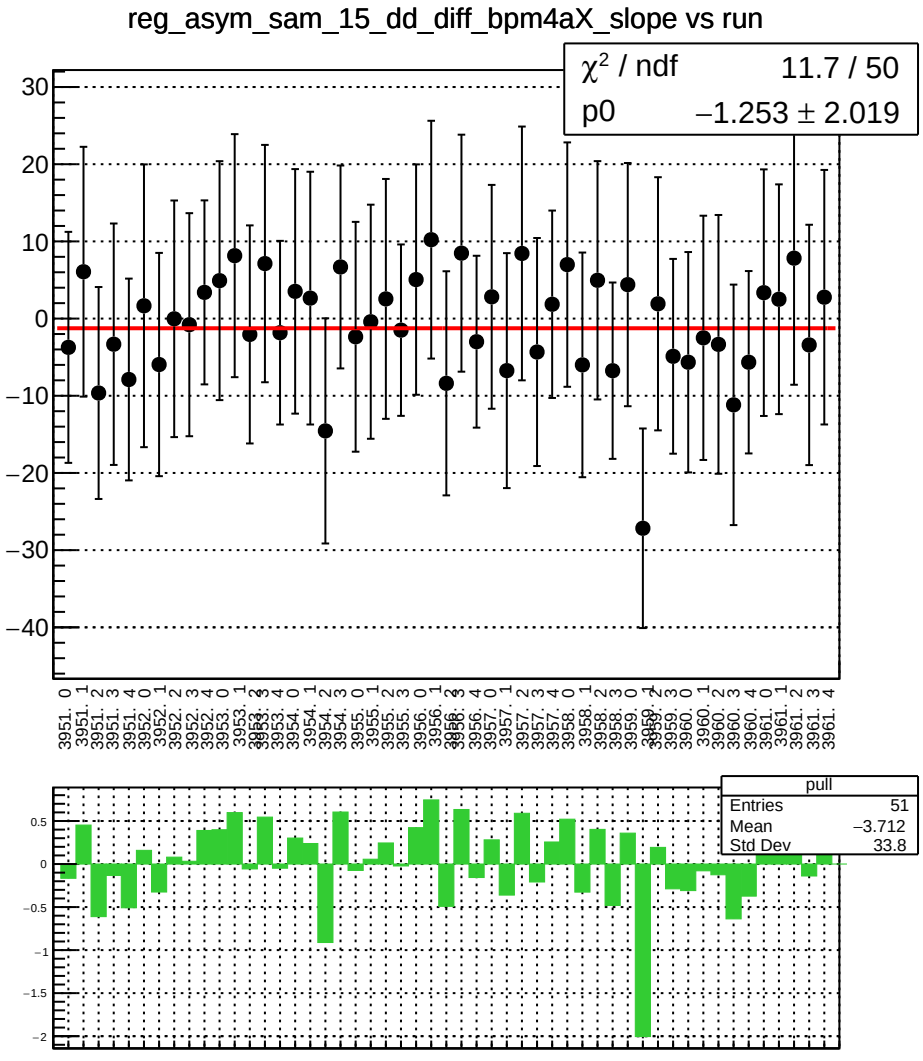

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.85 / 50
p0 −17.5 ± 0.1861
pull
Entries 51
Mean 650.2
Std Dev 629.6
pull1D
Entries 51
Mean −0.01235
Std Dev 1.227

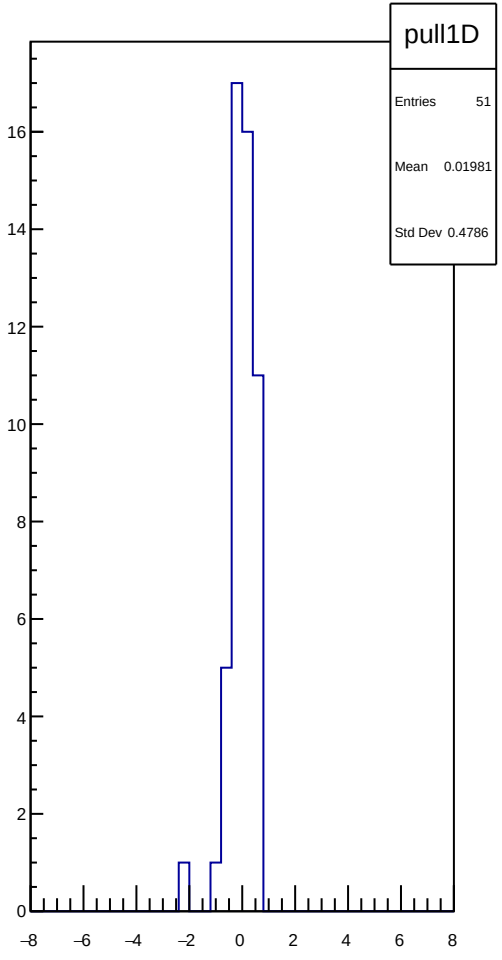

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 857.7 / 50
p0 −9.626 ± 0.04645
pull
Entries 51
Mean −112
Std Dev 145.5
pull1D
Entries 51
Mean −0.7411
Std Dev 3.264

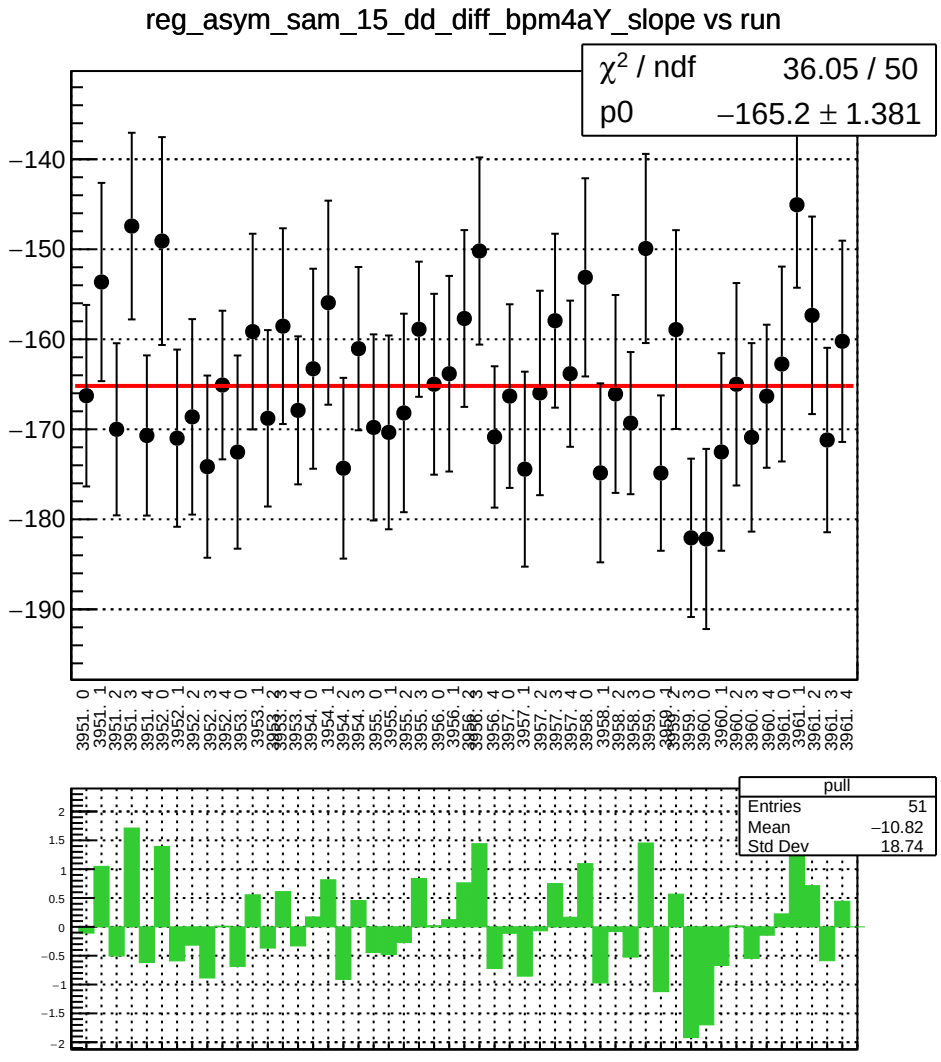

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.39 / 50
p0 19.46 ± 0.3115
pull
Entries 51
Mean 596.8
Std Dev 581.4
pull1D
Entries 51
Mean 0.006032
Std Dev 1.158

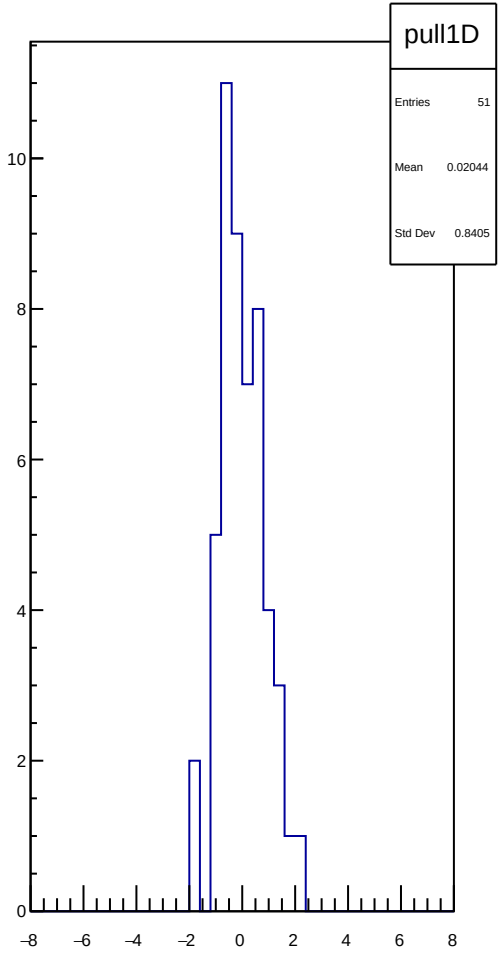

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 40 / 50
p0 0.08366 ± 0.04791
pull
Entries 51
Mean 104.6
Std Dev 98.3

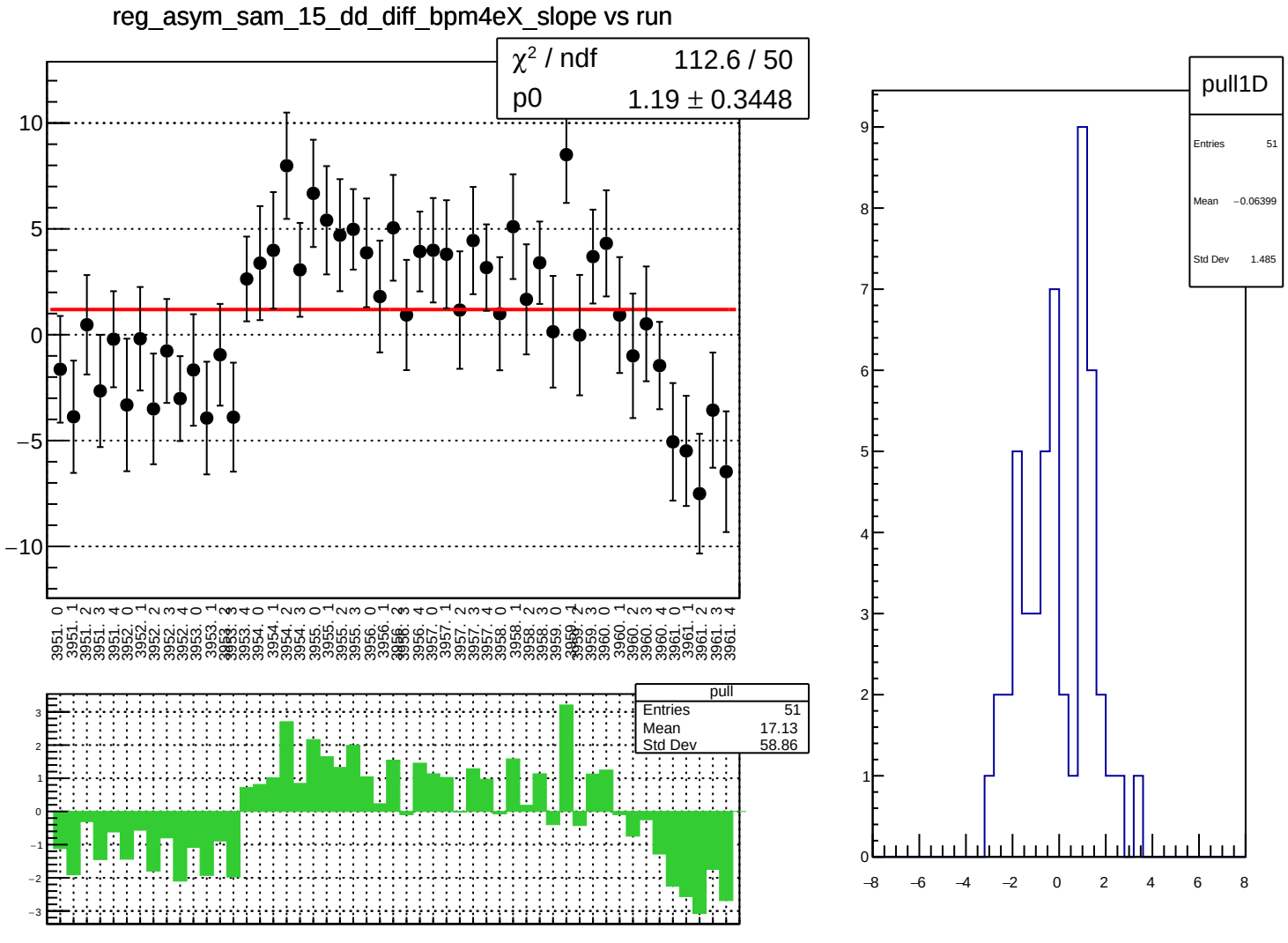

pull1D
Entries 51
Mean 0.01091
Std Dev 0.8855

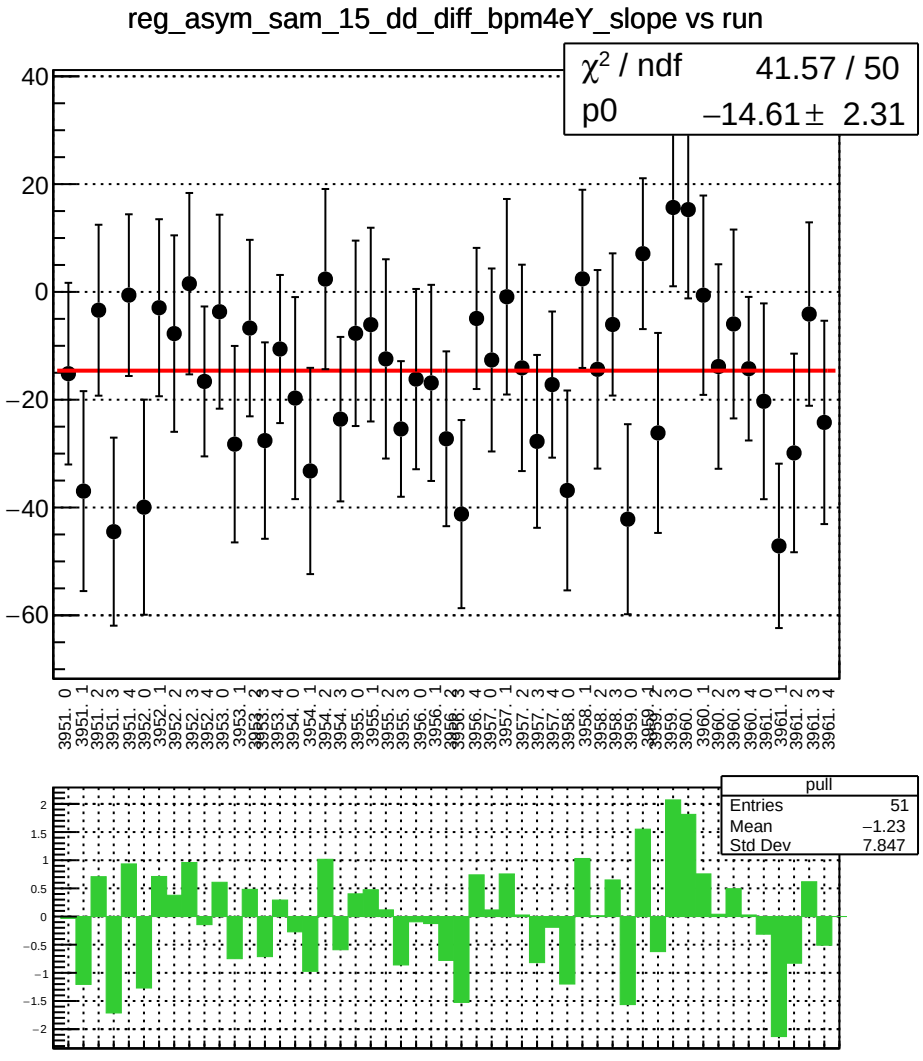

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.7 / 50
p0 −1.253 ± 2.019
pull
Entries 51
Mean −3.712
Std Dev 33.8

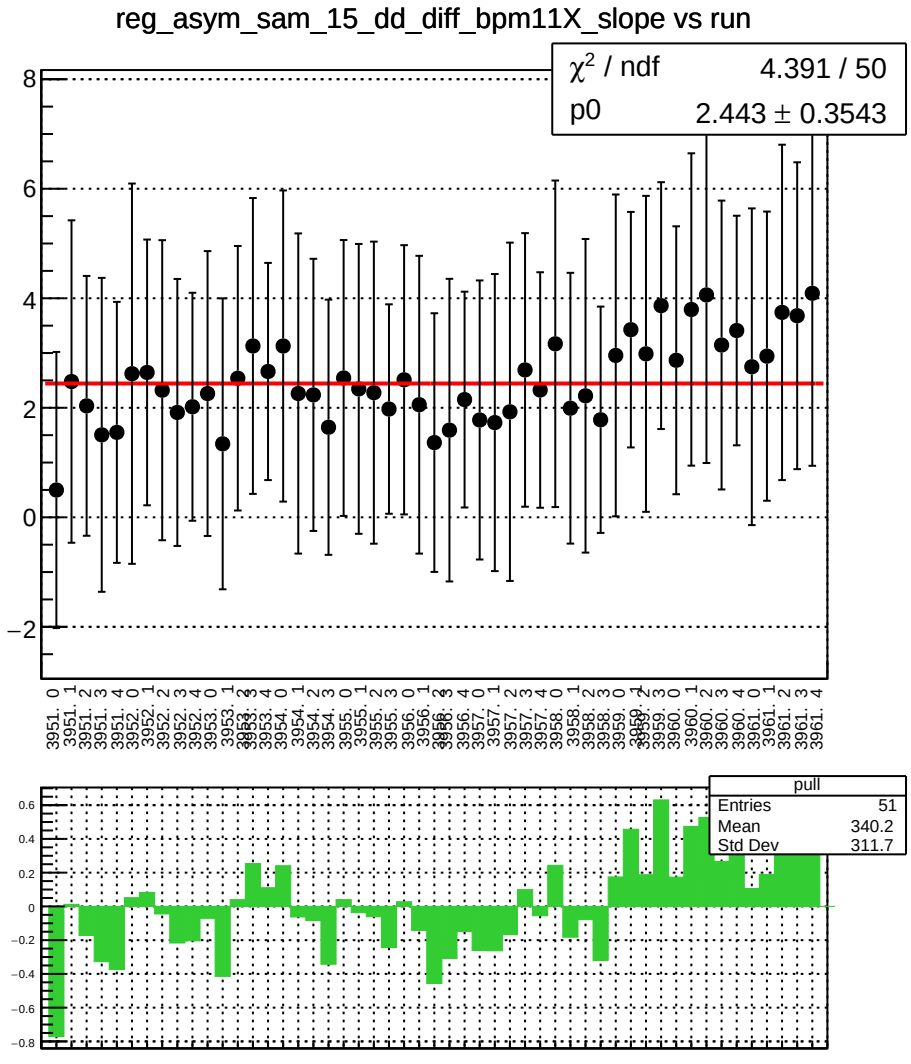

pull1D
Entries 51
Mean 0.01981
Std Dev 0.4786

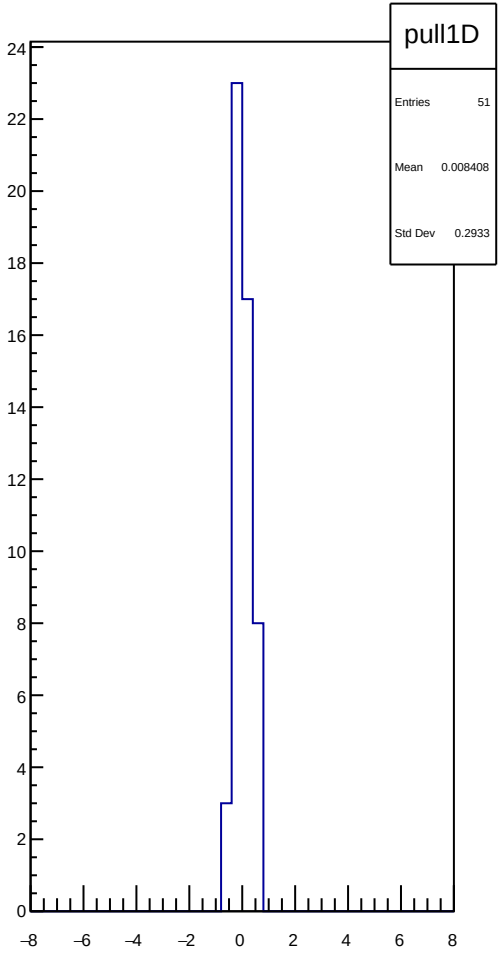

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.05 / 50
p0 −165.2 ± 1.381
pull
Entries 51
Mean −10.82
Std Dev 18.74

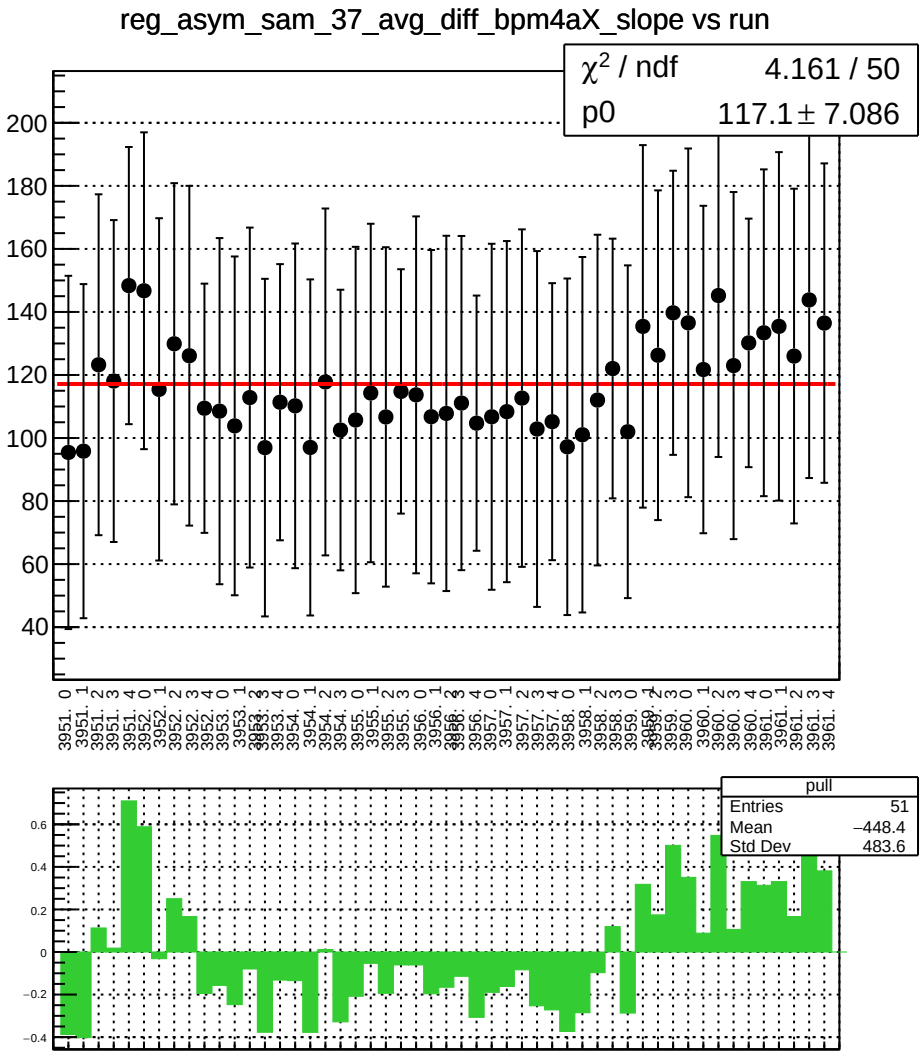

pull1D
Entries 51
Mean 0.02044
Std Dev 0.8405

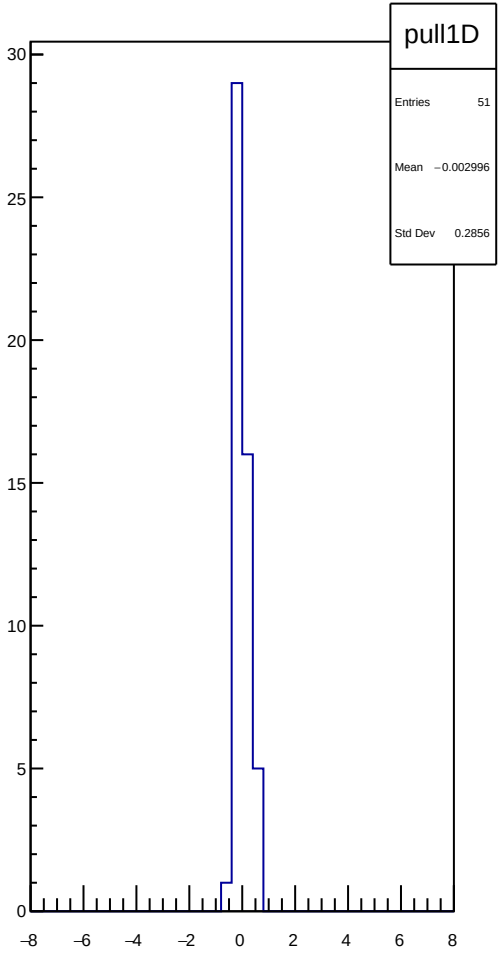

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 112.6 / 50
p0 1.19 ± 0.3448
pull
Entries 51
Mean 17.13
Std Dev 58.86
pull1D
Entries 51
Mean −0.06399
Std Dev 1.485

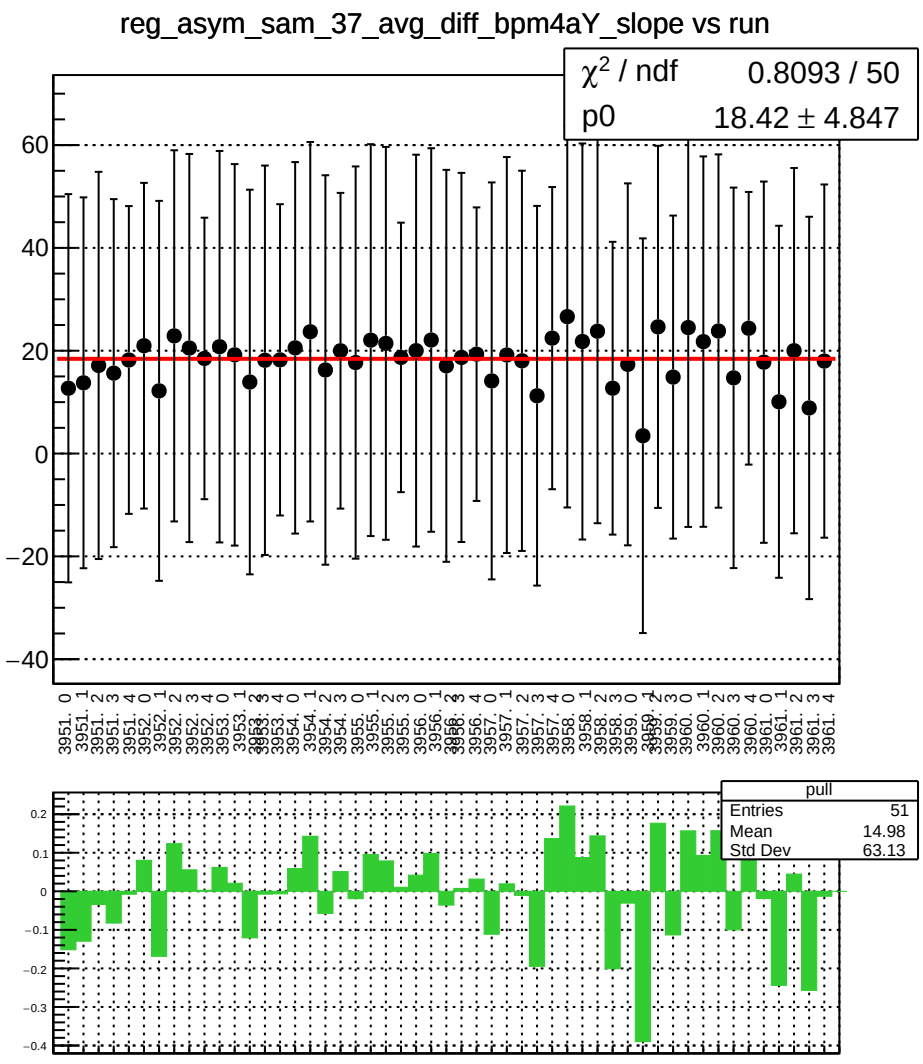

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.57 / 50
p0 −14.61 ± 2.31
pull
Entries 51
Mean −1.23
Std Dev 7.847
pull1D
Entries 51
Mean −0.028
Std Dev 0.9024

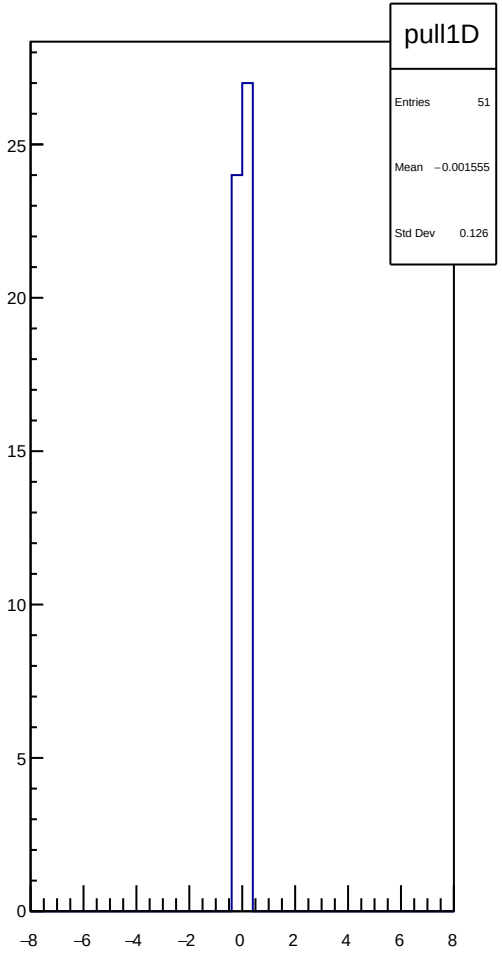

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 4.391 / 50
p0 2.443 ± 0.3543
pull
Entries 51
Mean 340.2
Std Dev 311.7

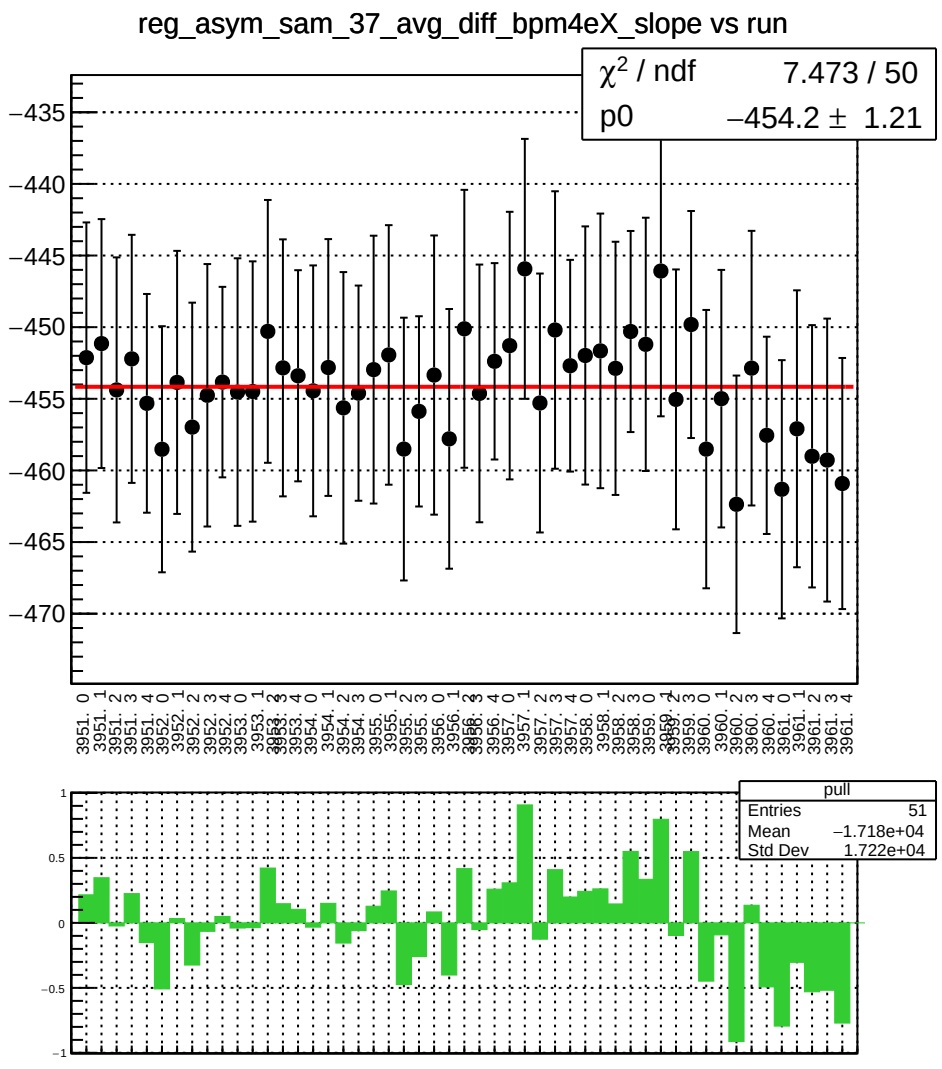

pull1D
Entries 51
Mean 0.008408
Std Dev 0.2933

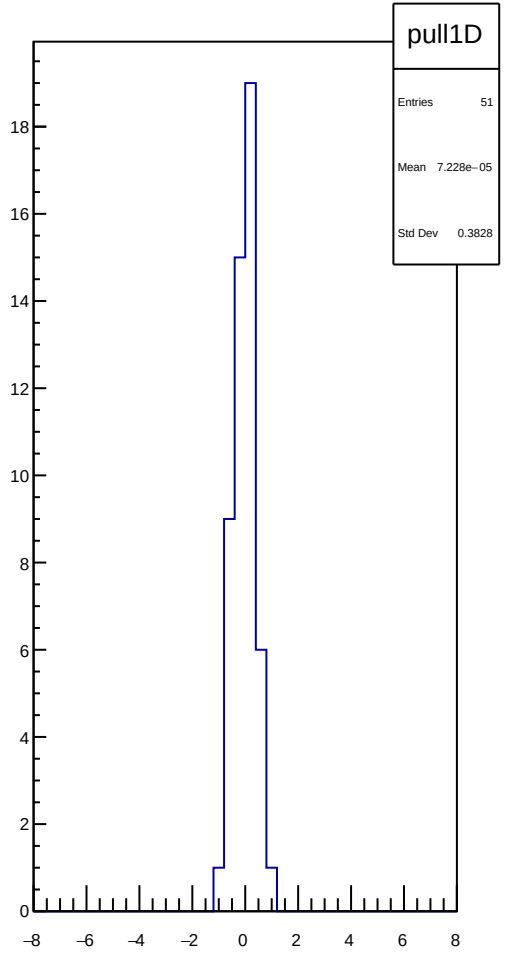

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.161 / 50
p0 117.1 ± 7.086
pull
Entries 51
Mean −448.4
Std Dev 483.6

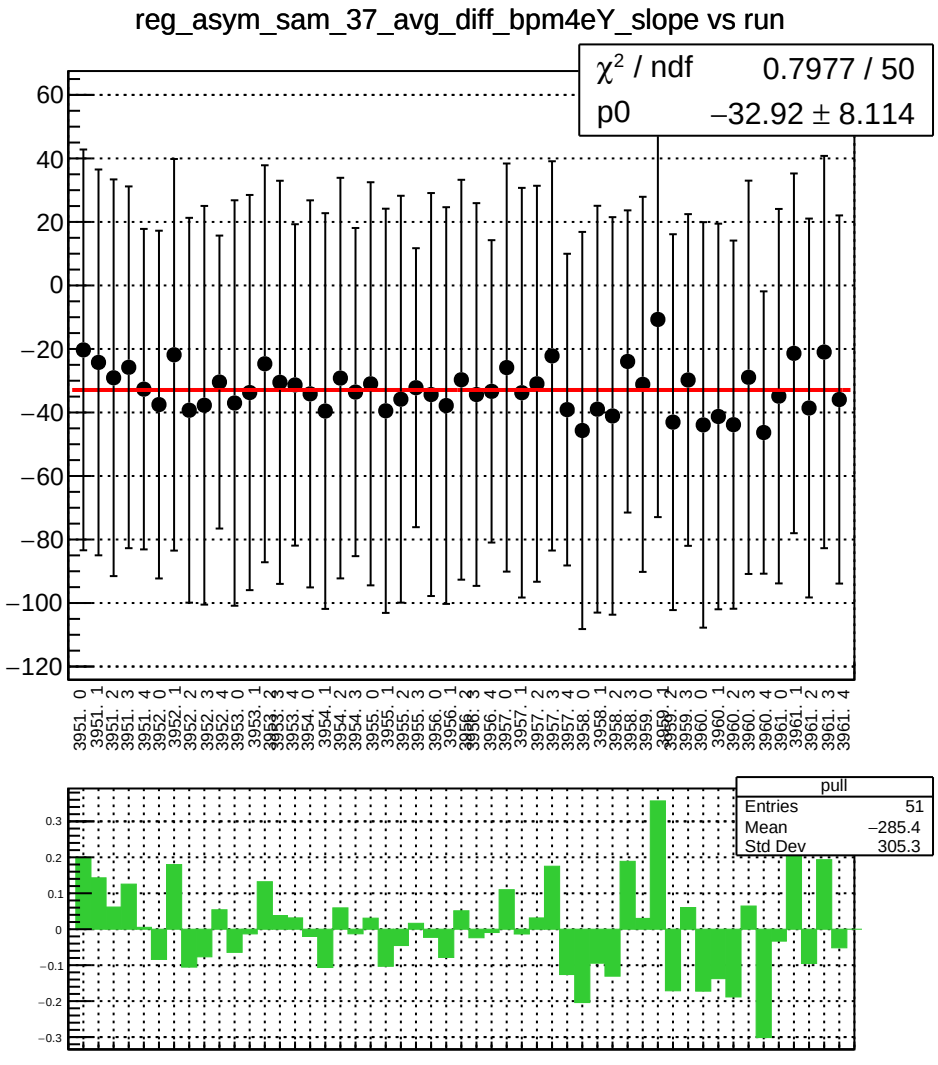

pull1D
Entries 51
Mean −0.002996
Std Dev 0.2856

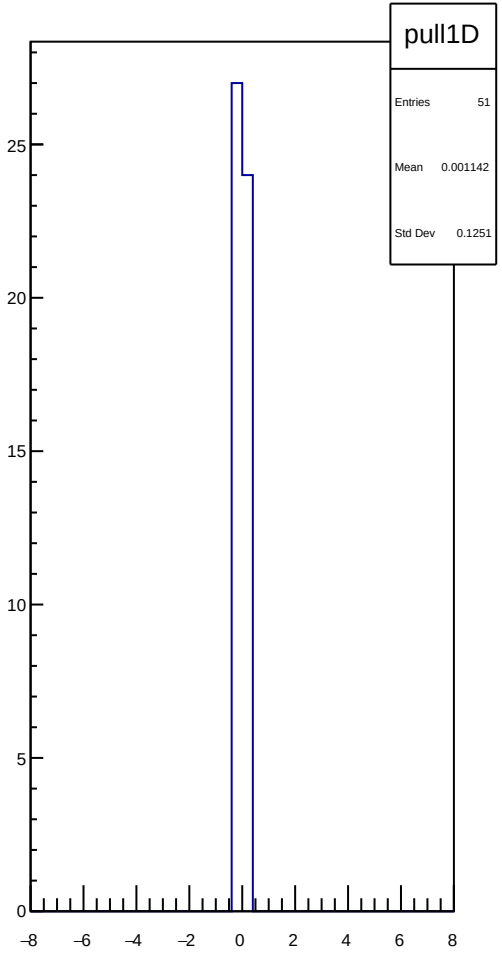

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.8093 / 50
p0 18.42 ± 4.847
pull
Entries 51
Mean 14.98
Std Dev 63.13

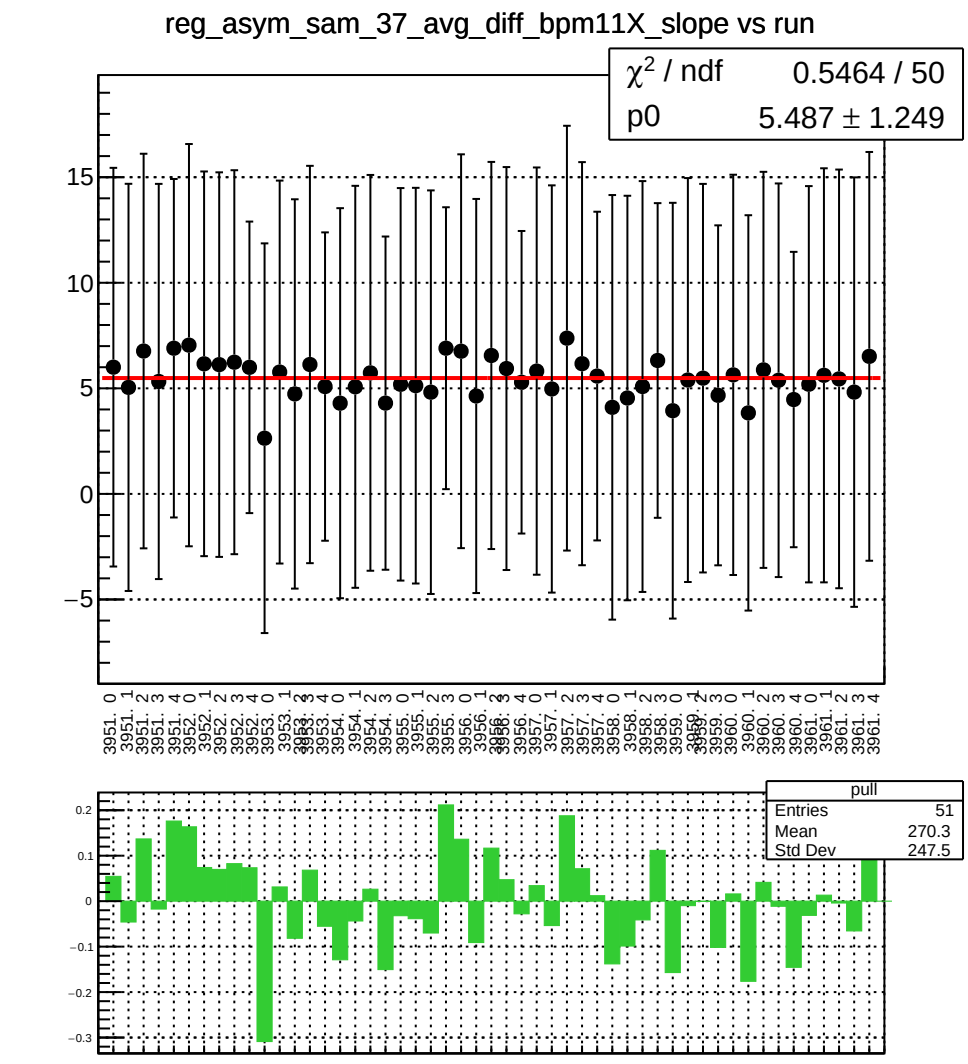

pull1D
Entries 51
Mean −0.001555
Std Dev 0.126

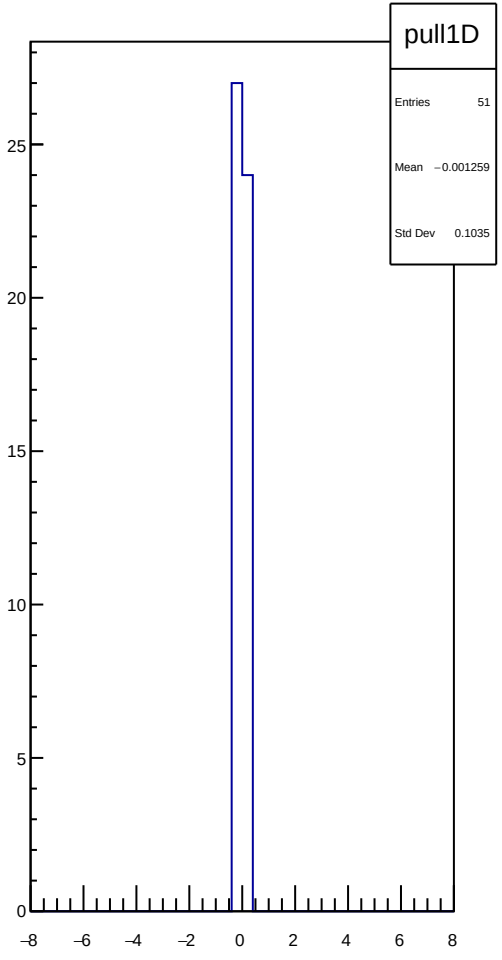

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.473 / 50
p0 −454.2 ± 1.21
−435
−440
−445
−450
−455
−460
−465
−470
pull
Entries 51
Mean −1.718e+04
Std Dev 1.722e+04
1
0.5
0
−0.5
−1

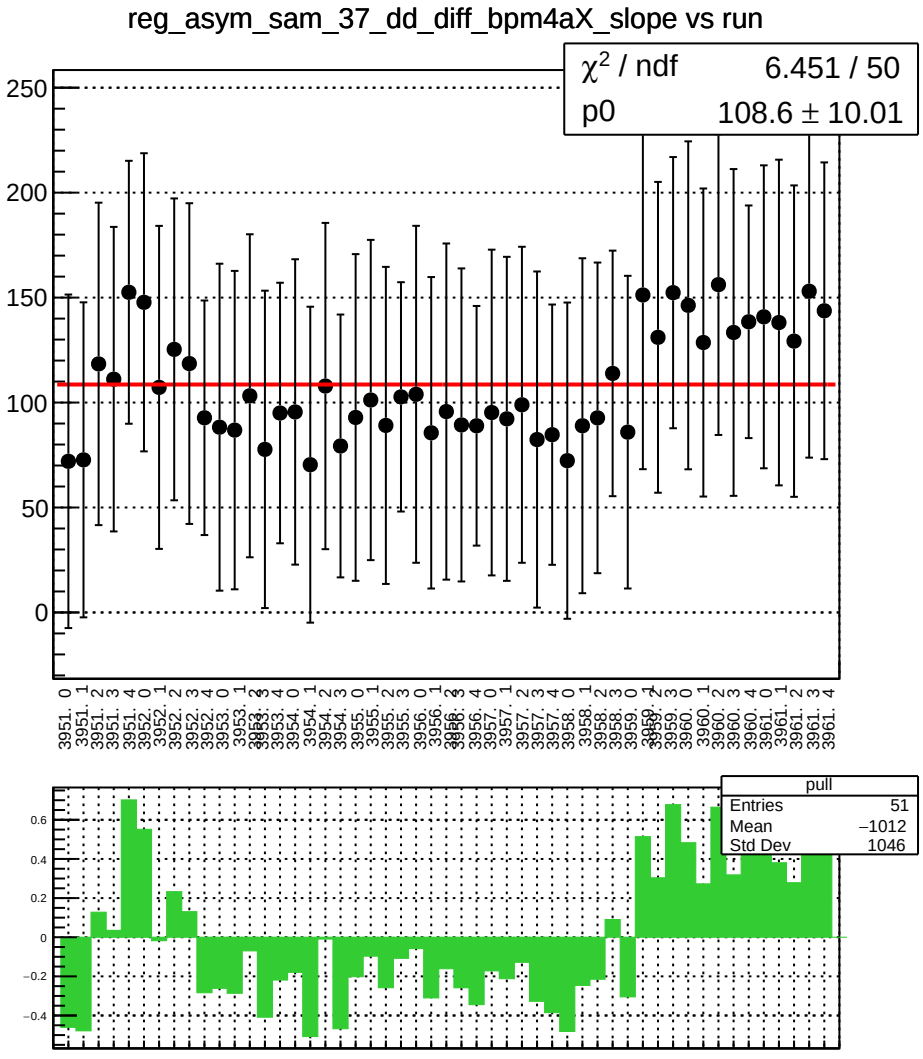

pull1D
Entries 51
Mean 7.228e−05
Std Dev 0.3828
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

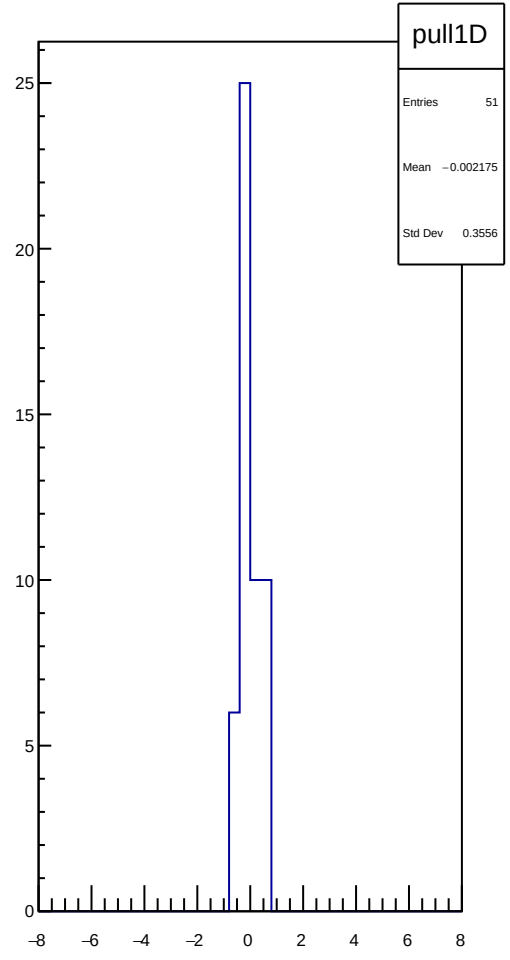

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.7977 / 50
p0 −32.92 ± 8.114
pull
Entries 51
Mean −285.4
Std Dev 305.3

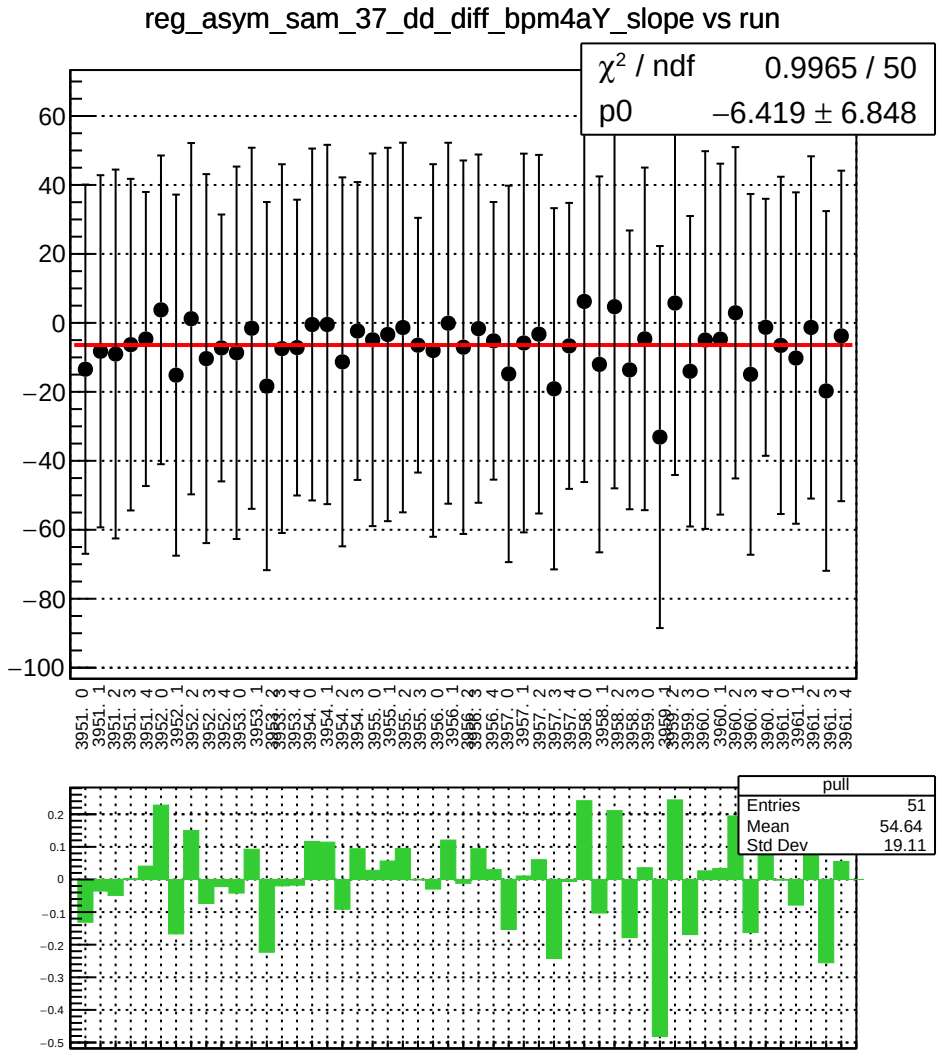

pull1D
Entries 51
Mean 0.001142
Std Dev 0.1251

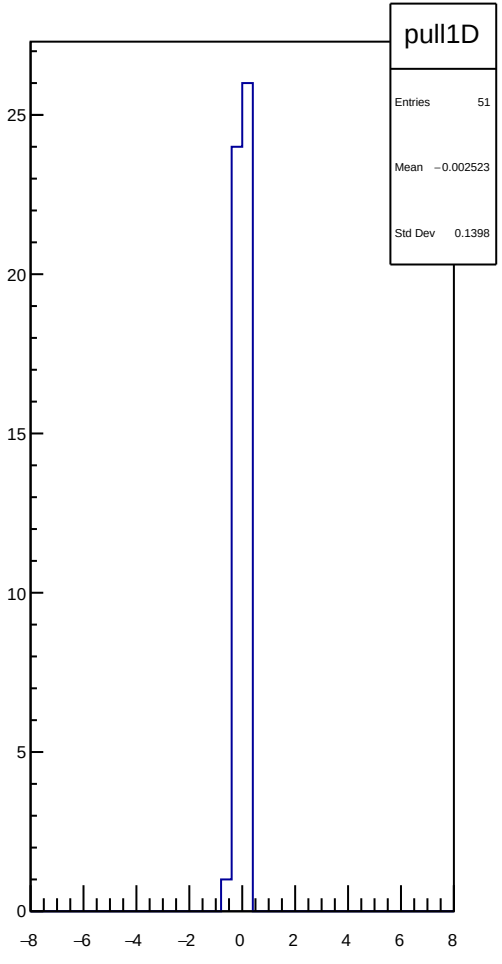

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 0.5464 / 50
p0 5.487 ± 1.249
pull
Entries 51
Mean 270.3
Std Dev 247.5

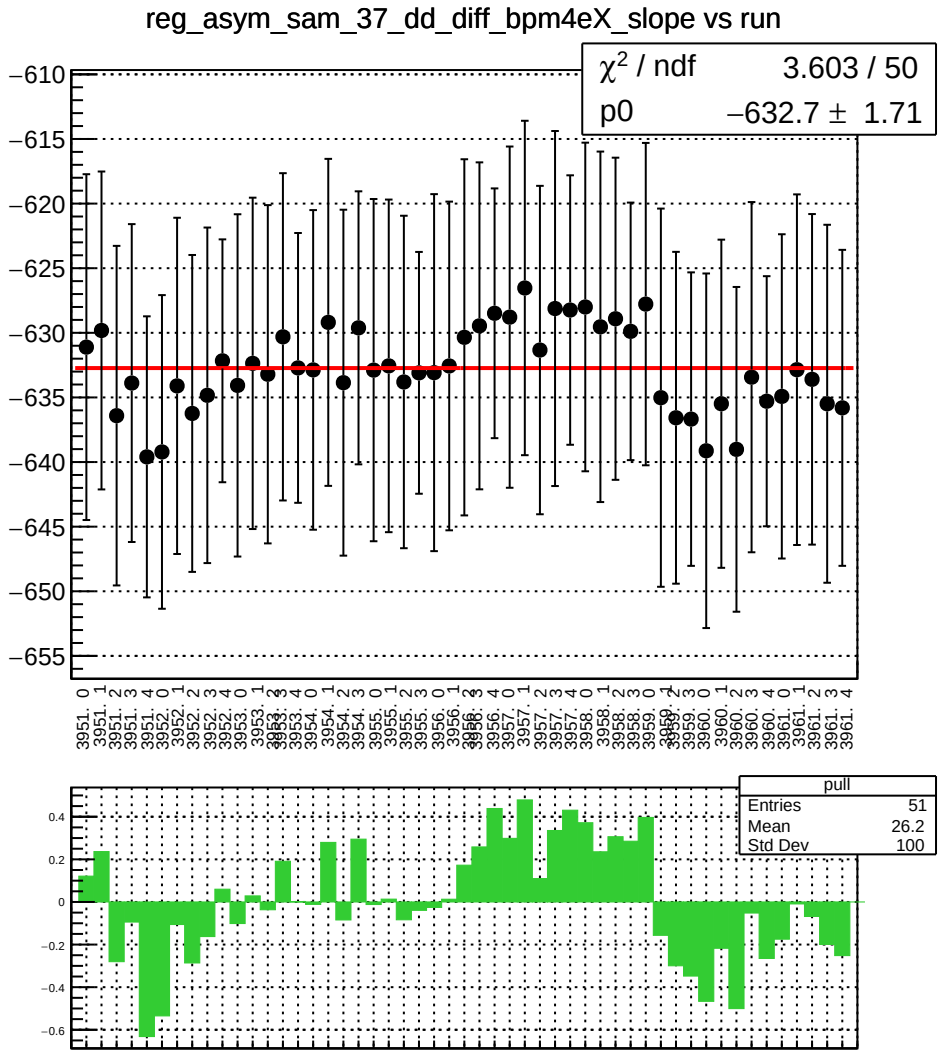

pull1D
Entries 51
Mean −0.001259
Std Dev 0.1035

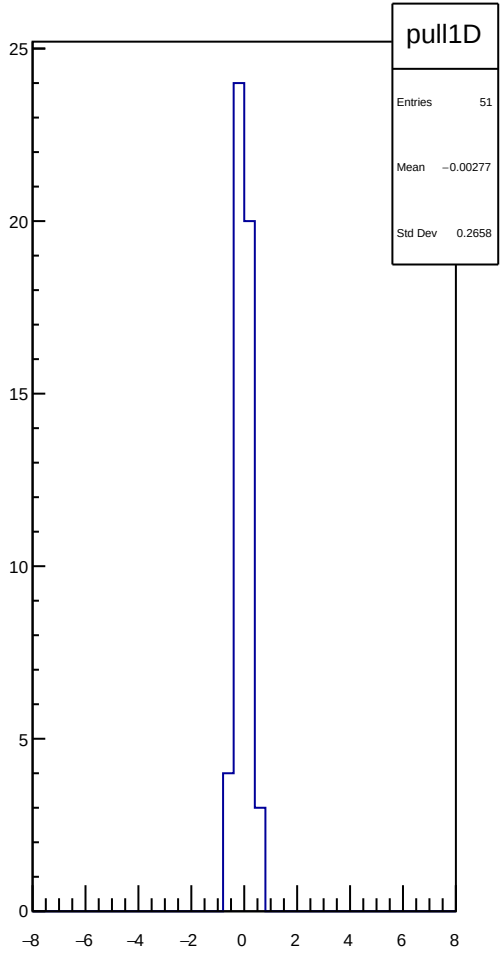

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.451 / 50
p0 108.6 ± 10.01
pull
Entries 51
Mean −1012
Std Dev 1046

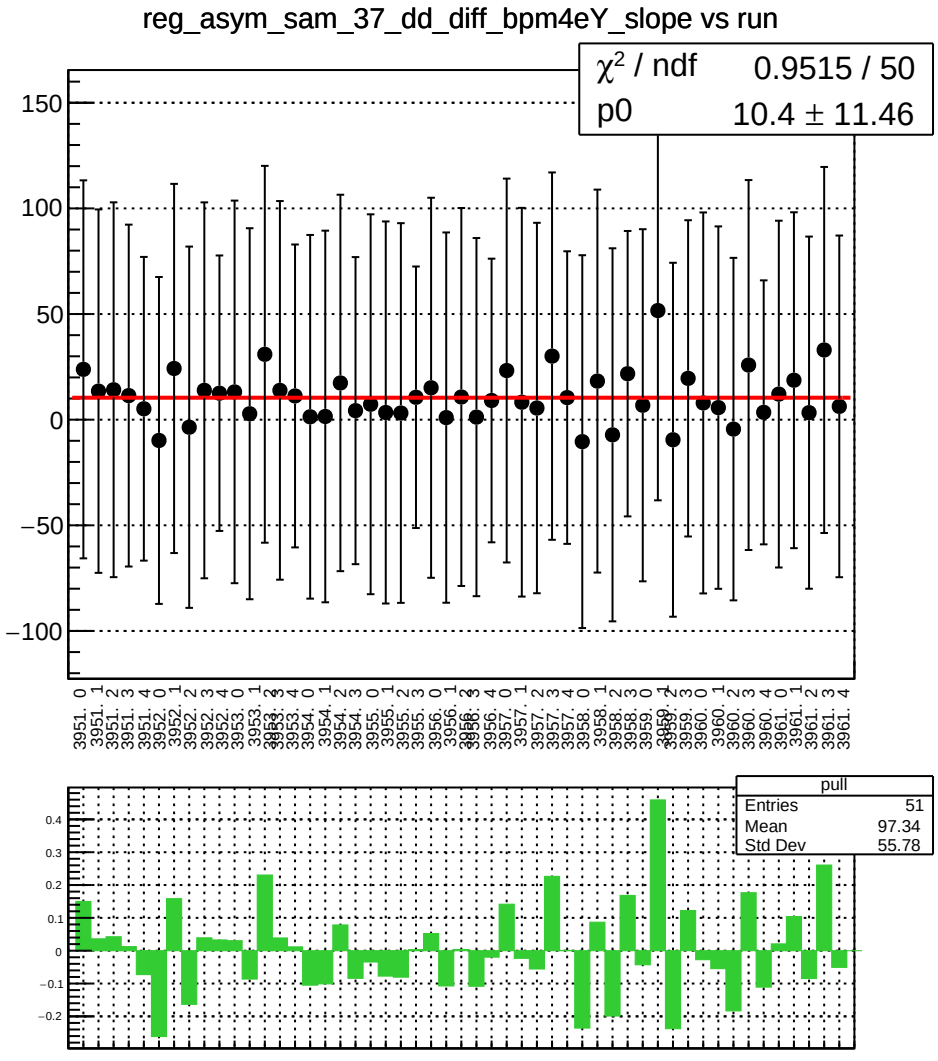

pull1D
Entries 51
Mean −0.002175
Std Dev 0.3556

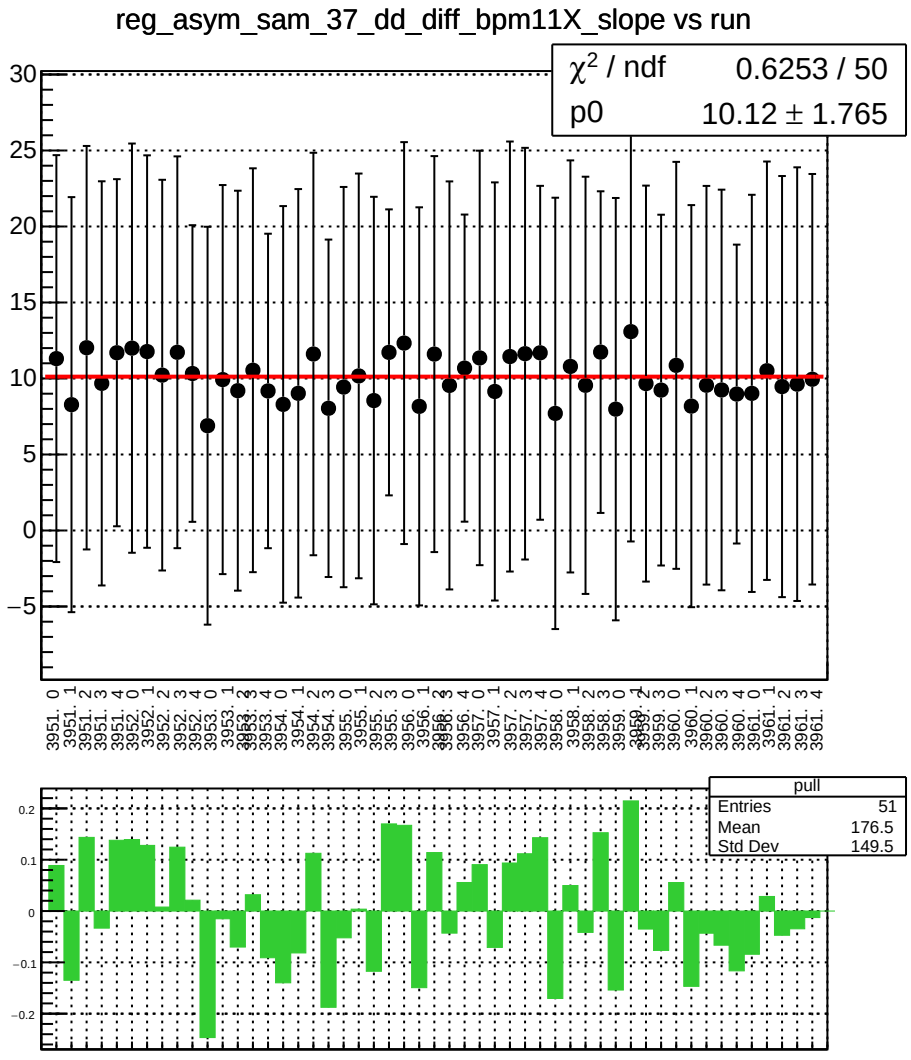

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9965 / 50
p0 −6.419 ± 6.848
pull
Entries 51
Mean 54.64
Std Dev 19.11

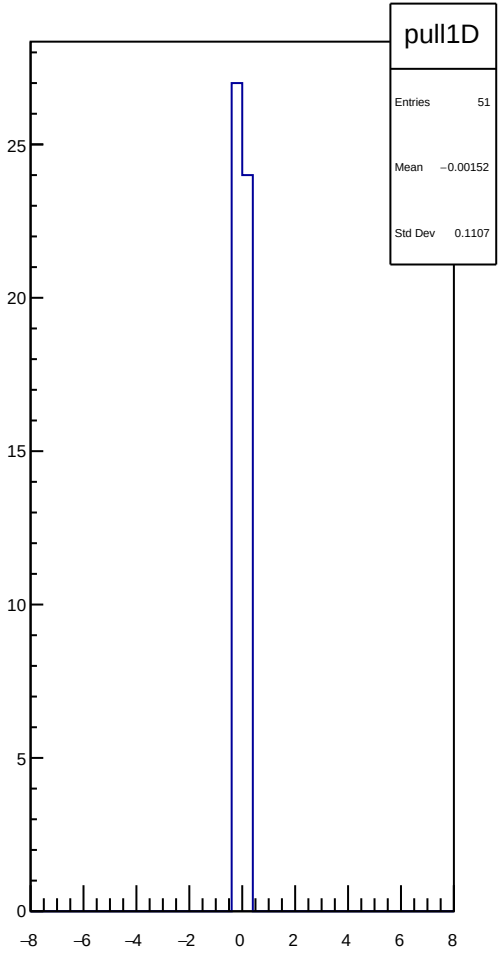

pull1D
Entries 51
Mean −0.002523
Std Dev 0.1398

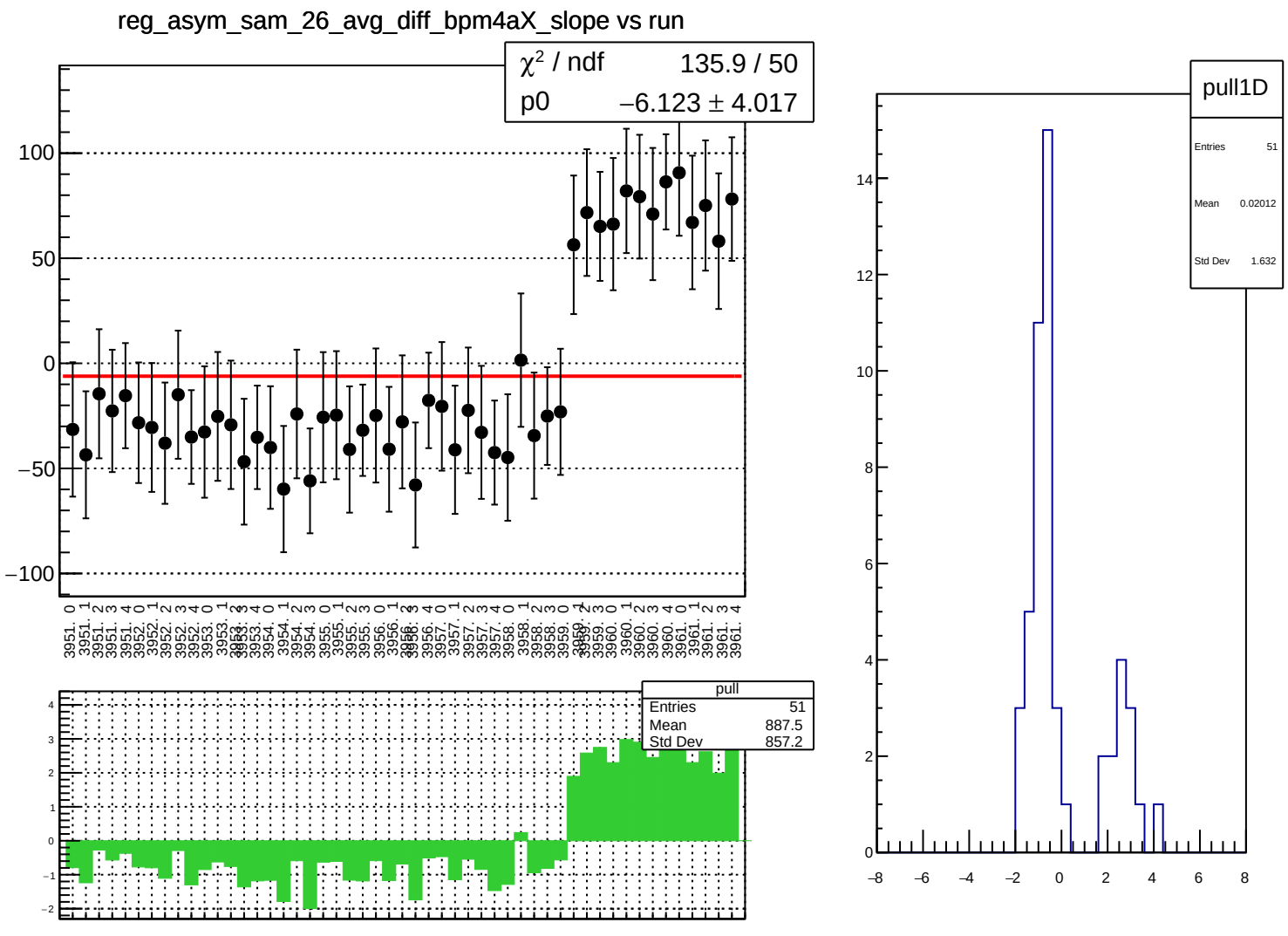

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.603 / 50
p0 −632.7 ± 1.71
pull
Entries 51
Mean 26.2
Std Dev 100

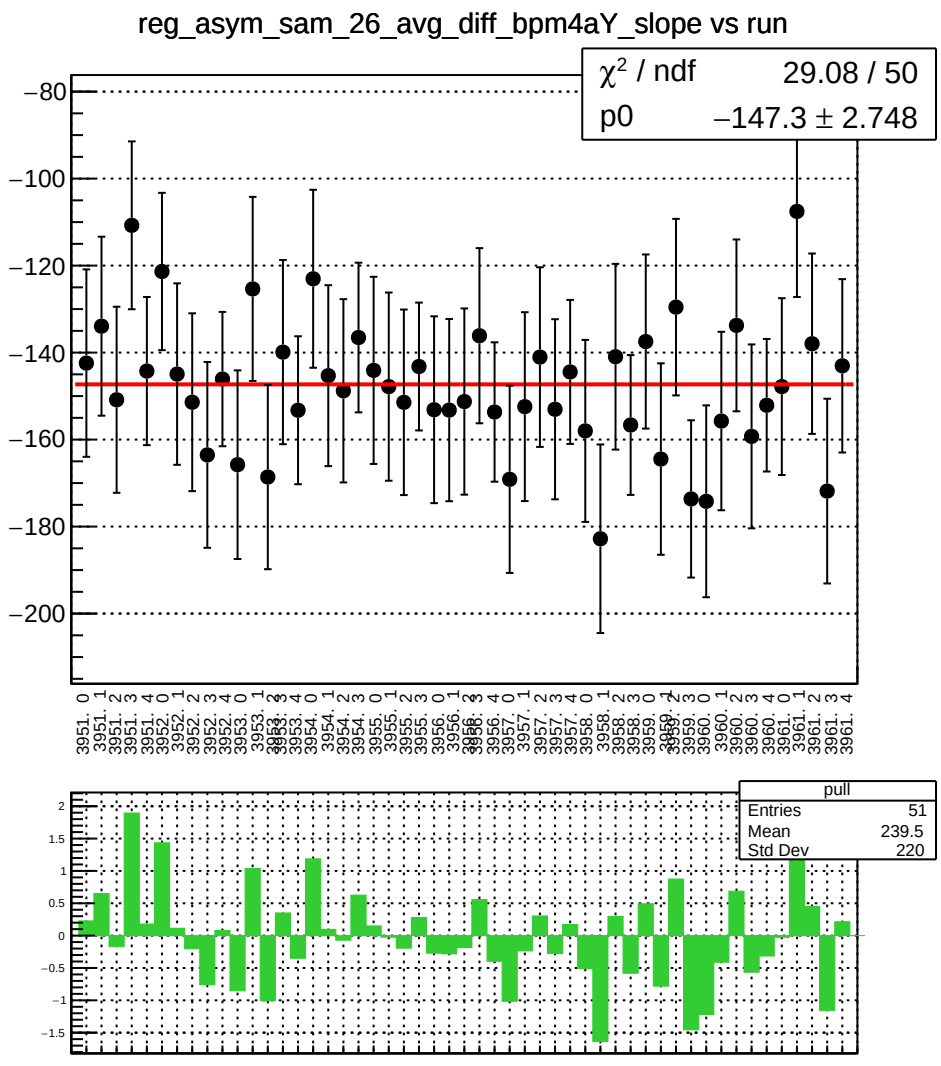

pull1D
Entries 51
Mean −0.00277
Std Dev 0.2658

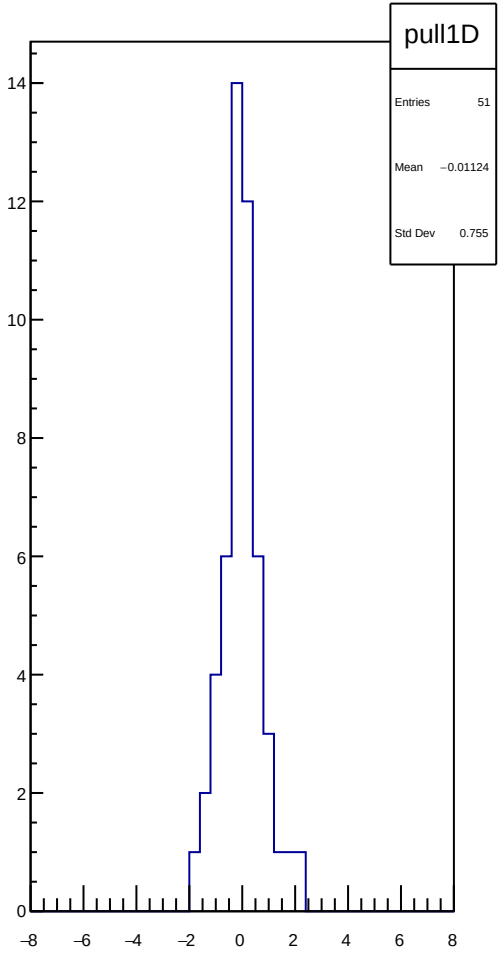

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9515 / 50
p0 10.4 ± 11.46
150
100
50
0
−50
−100
pull
Entries 51
Mean 97.34
Std Dev 55.78
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 51
Mean 0.001597
Std Dev 0.1366
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

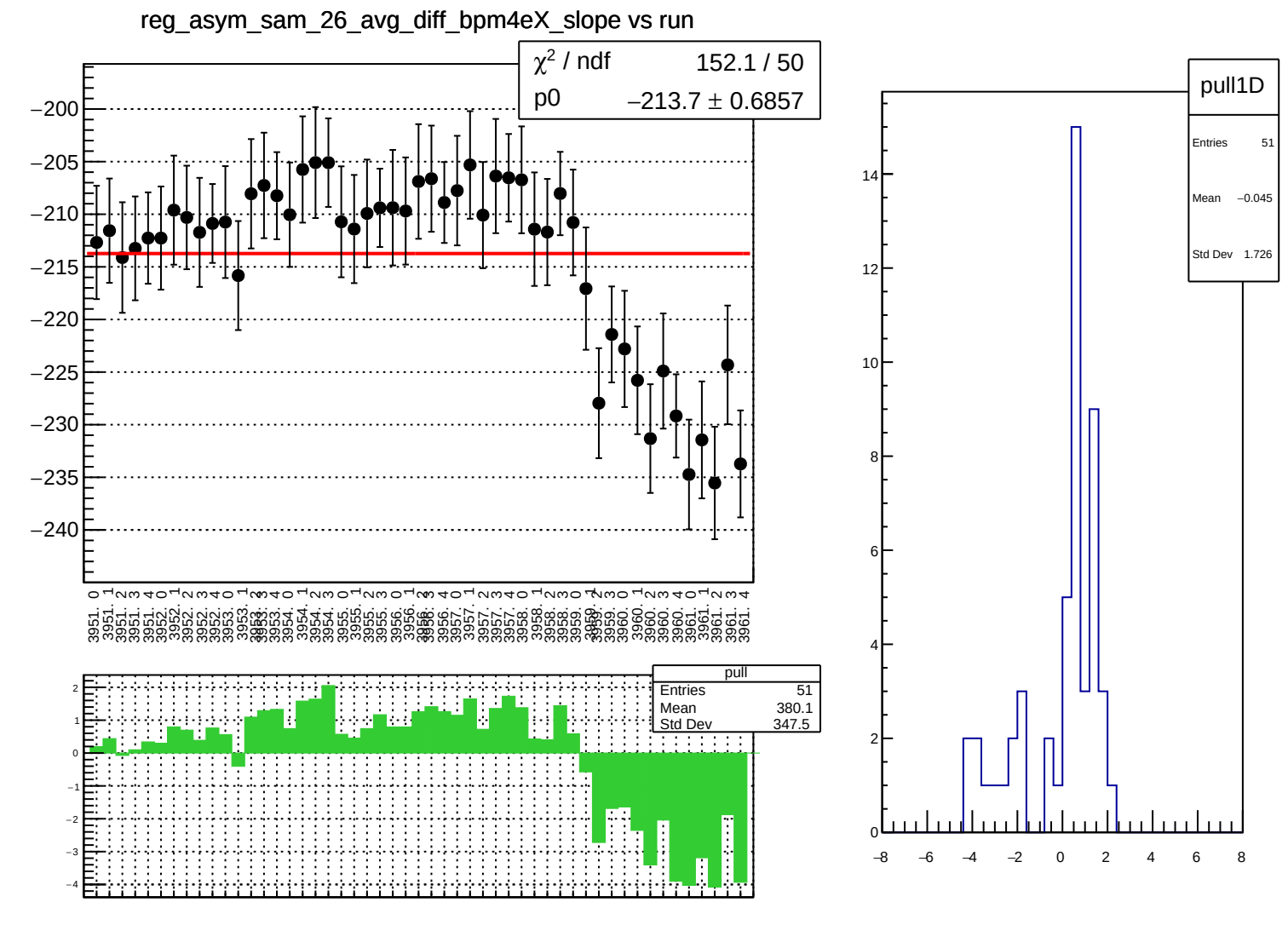

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 0.6253 / 50
p0 10.12 ± 1.765
pull
Entries 51
Mean 176.5
Std Dev 149.5

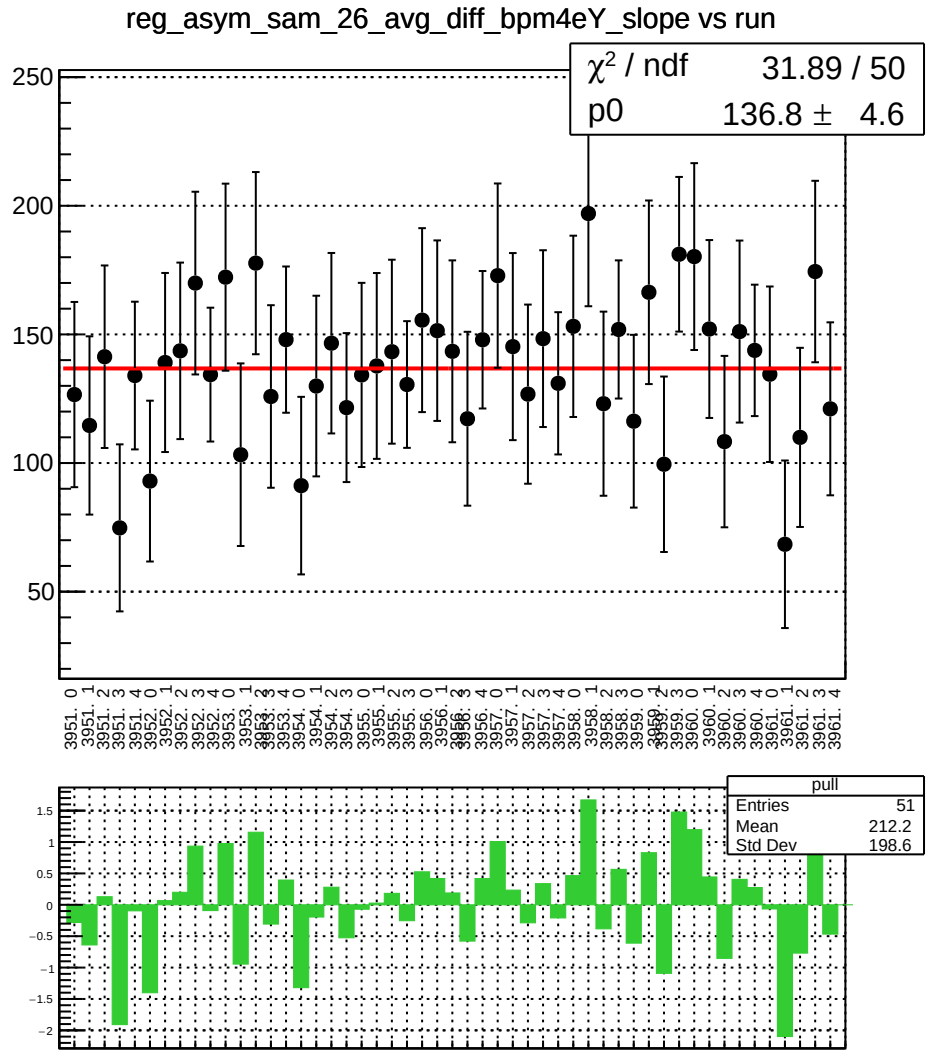

pull1D
Entries 51
Mean −0.00152
Std Dev 0.1107

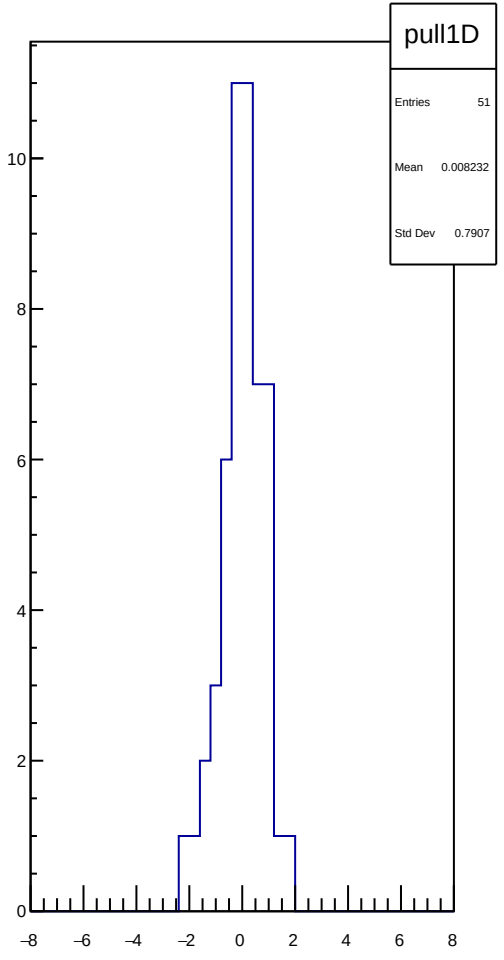

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 135.9 / 50
p0 −6.123 ± 4.017
pull
Entries 51
Mean 887.5
Std Dev 857.2
pull1D
Entries 51
Mean 0.02012
Std Dev 1.632

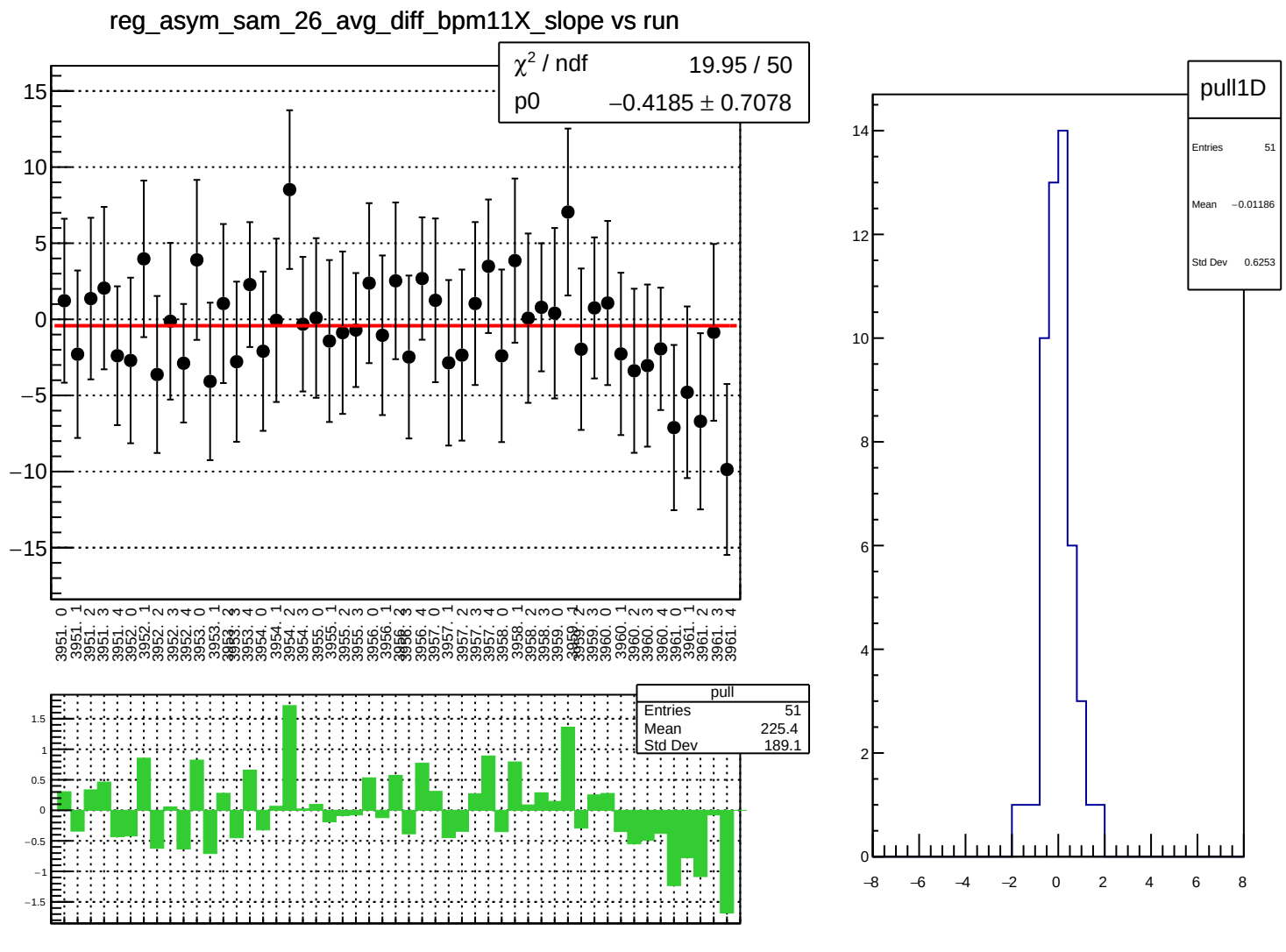

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.08 / 50
p0 −147.3 ± 2.748
pull
Entries 51
Mean 239.5
Std Dev 220

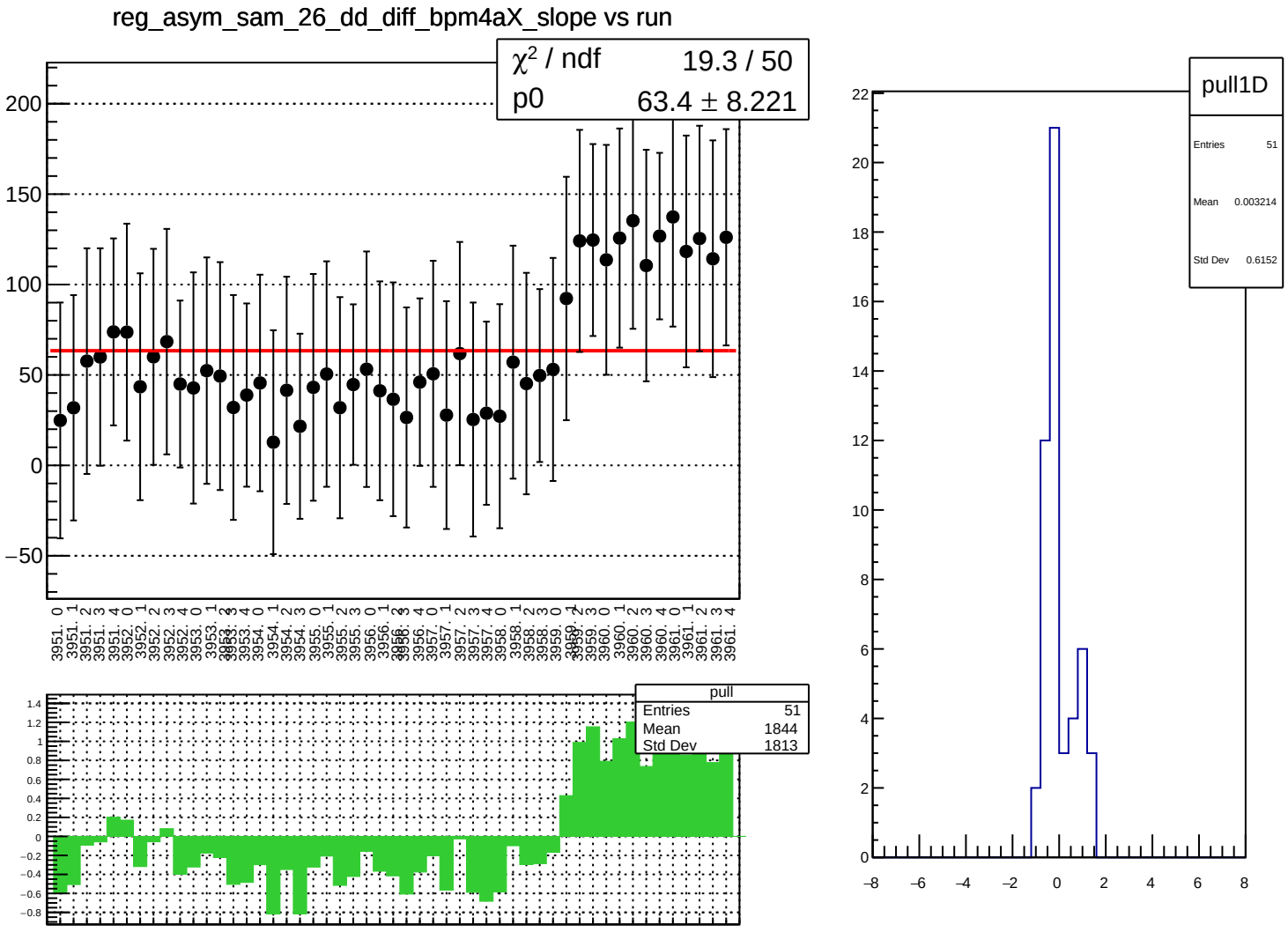

pull1D
Entries 51
Mean −0.01124
Std Dev 0.755

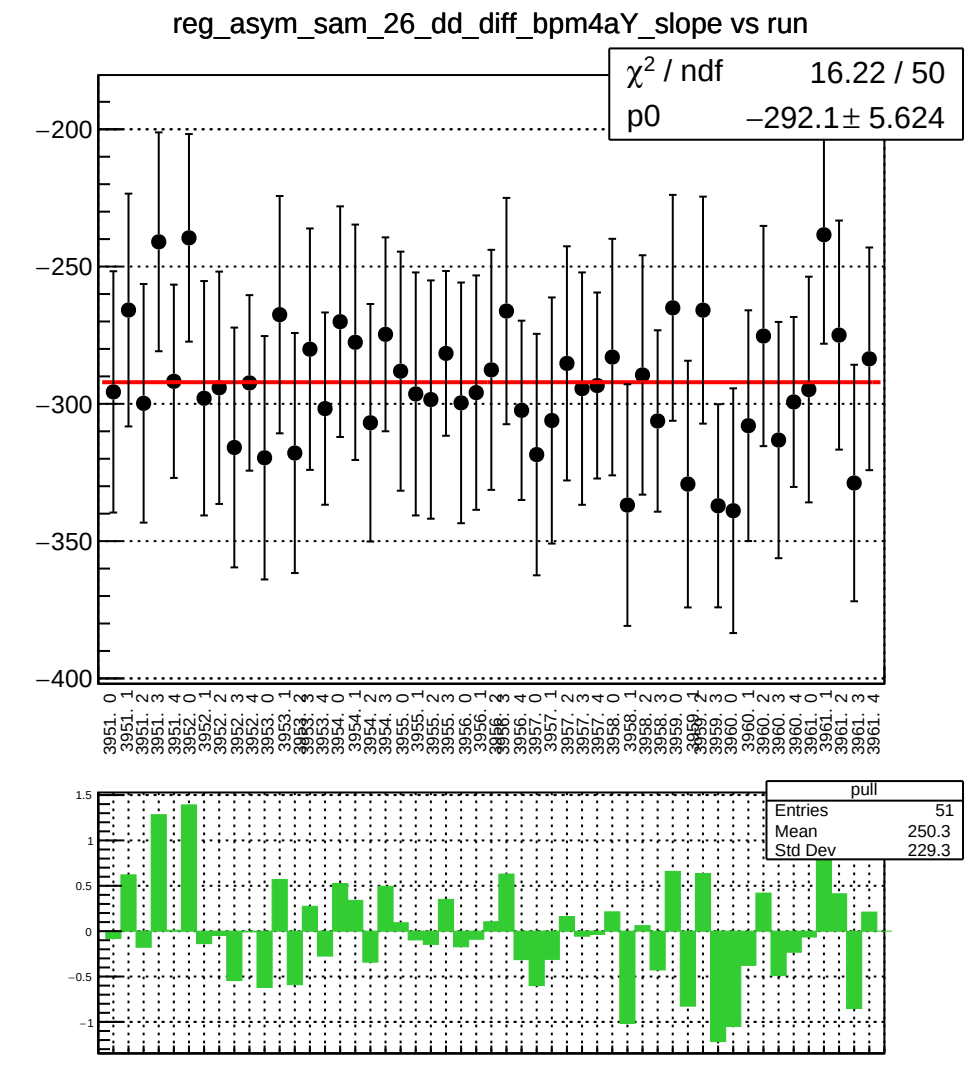

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 152.1 / 50
p0 −213.7 ± 0.6857
pull
Entries 51
Mean 380.1
Std Dev 347.5
pull1D
Entries 51
Mean −0.045
Std Dev 1.726

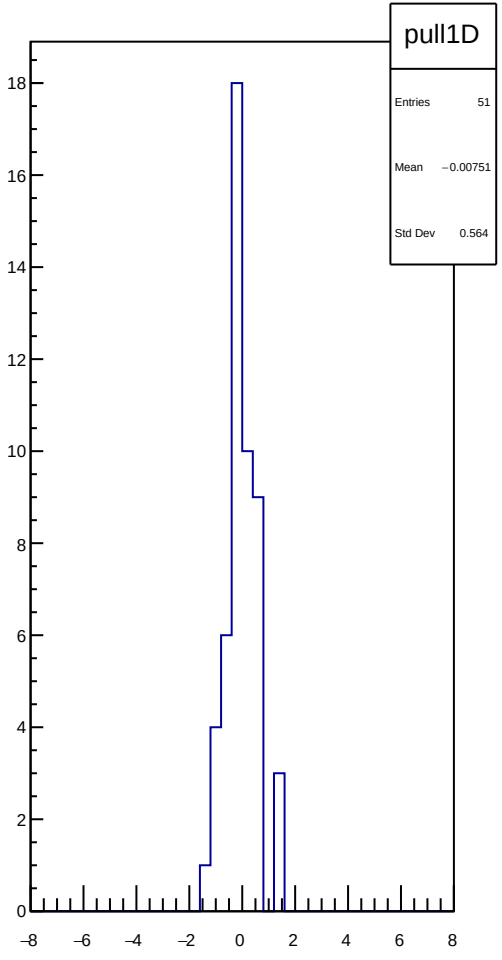

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.89 / 50
p0 136.8 ± 4.6
250
200
150
100
50
pull
Entries 51
Mean 212.2
Std Dev 198.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

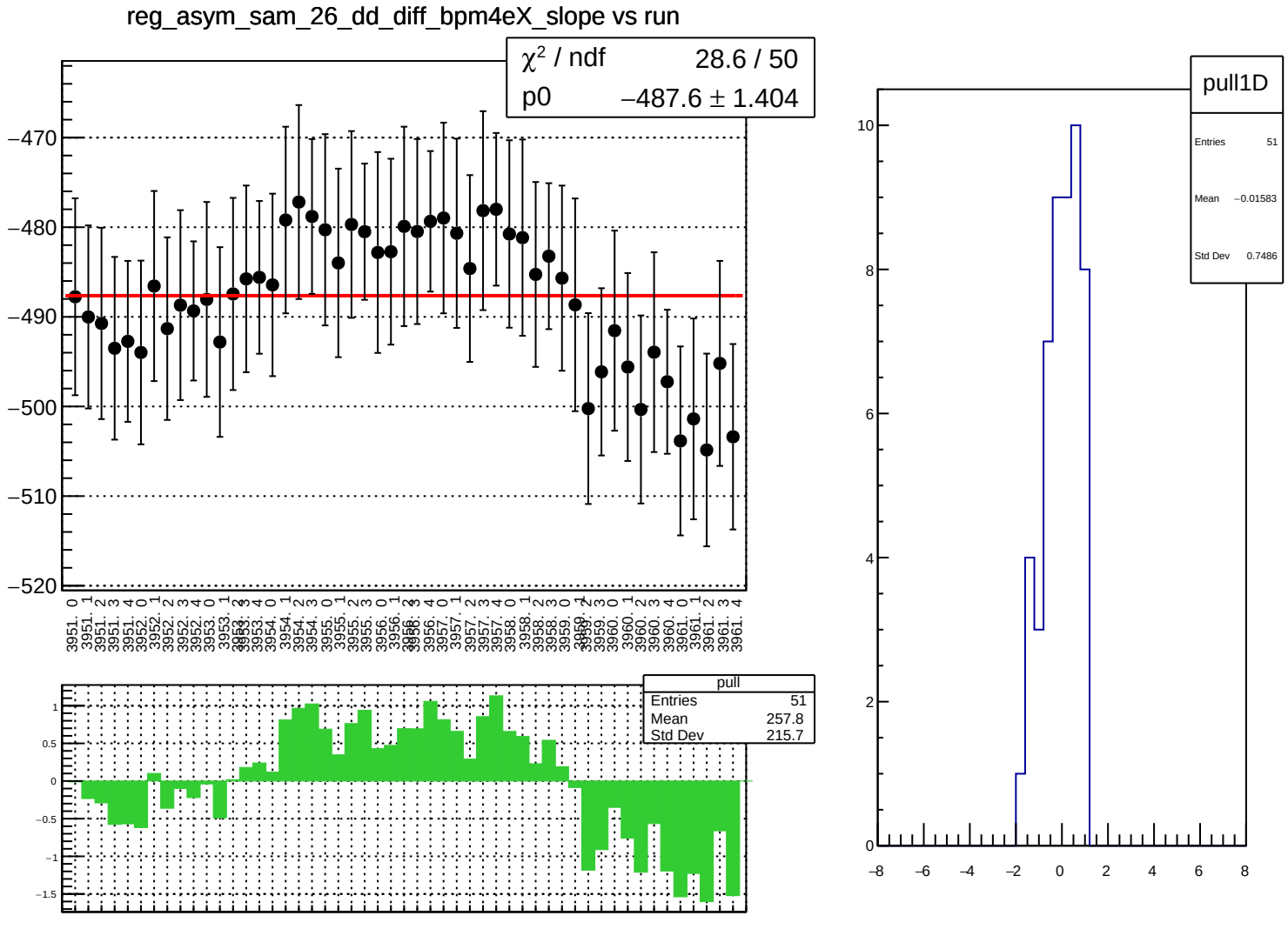

pull1D
Entries 51
Mean 0.008232
Std Dev 0.7907
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

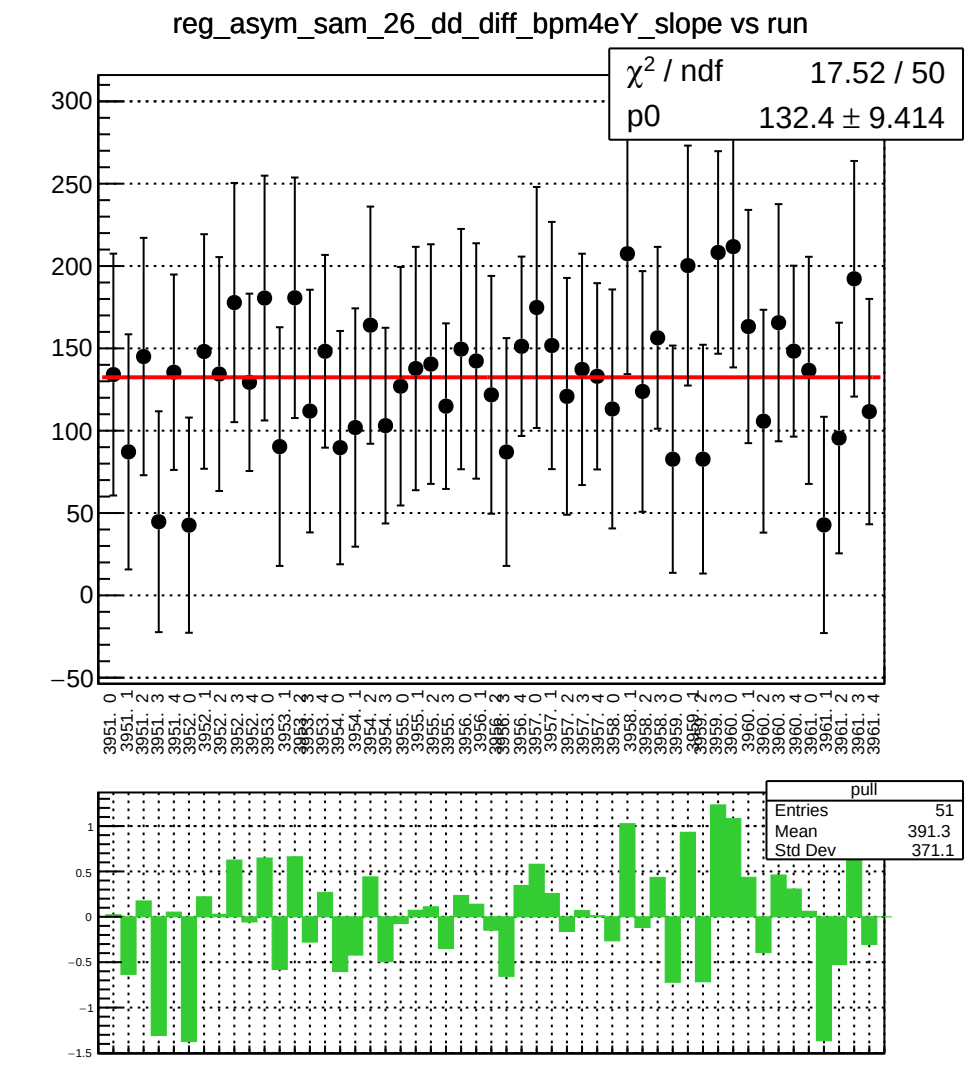

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 19.95 / 50
p0 −0.4185 ± 0.7078
pull
Entries 51
Mean 225.4
Std Dev 189.1
pull1D
Entries 51
Mean −0.01186
Std Dev 0.6253

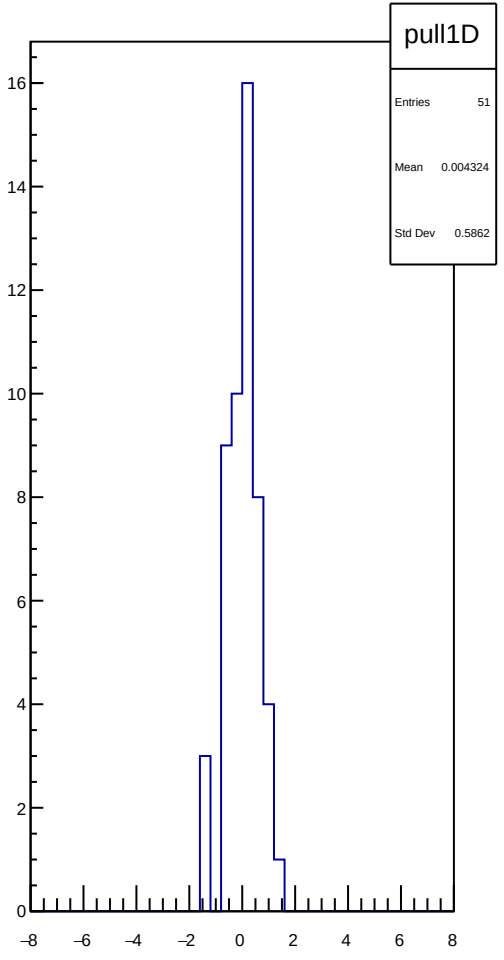

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.3 / 50
p0 63.4 ± 8.221
pull
Entries 51
Mean 1844
Std Dev 1813
pull1D
Entries 51
Mean 0.003214
Std Dev 0.6152

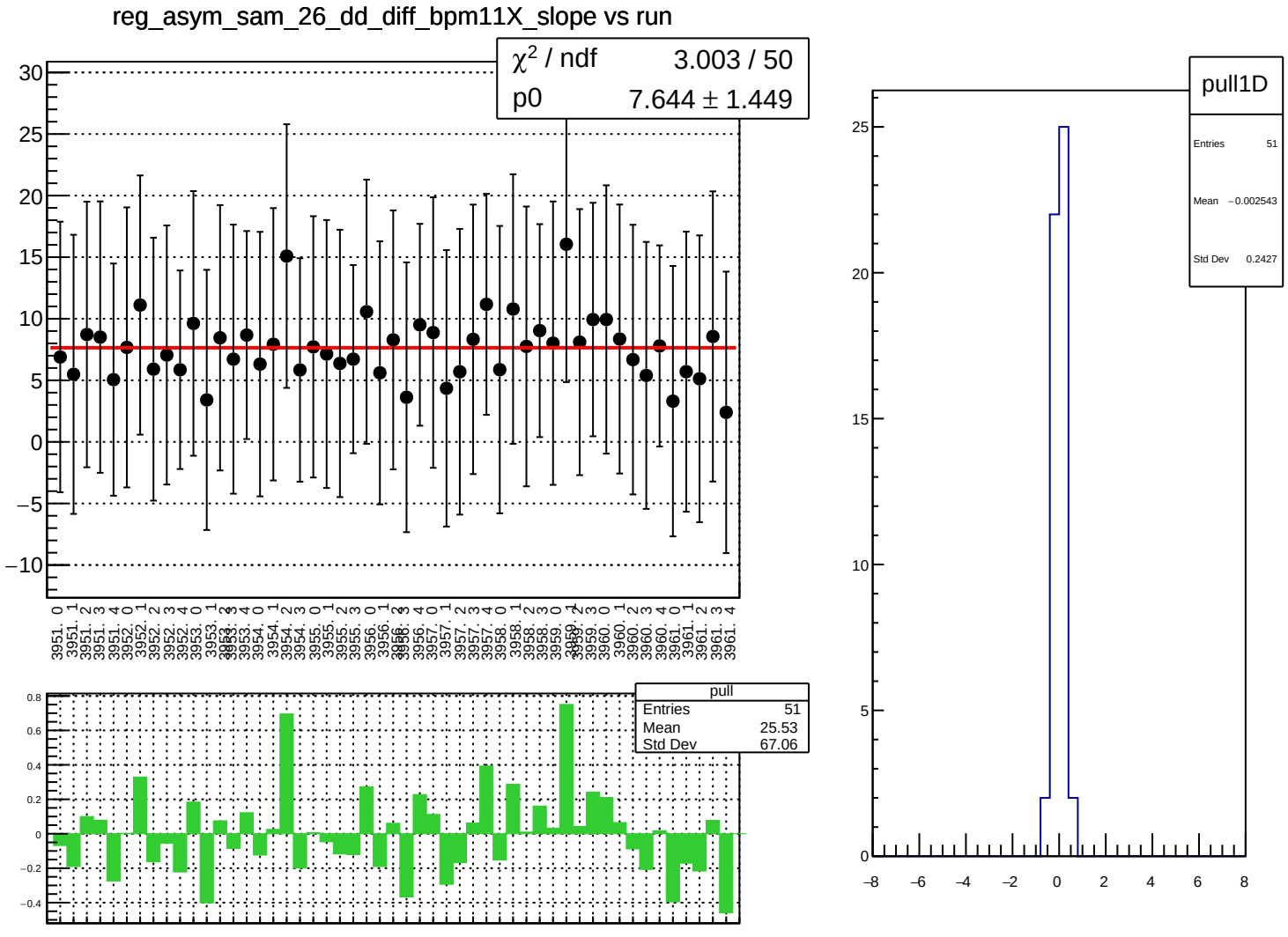

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.22 / 50
p0 −292.1 ± 5.624
pull
Entries 51
Mean 250.3
Std Dev 229.3

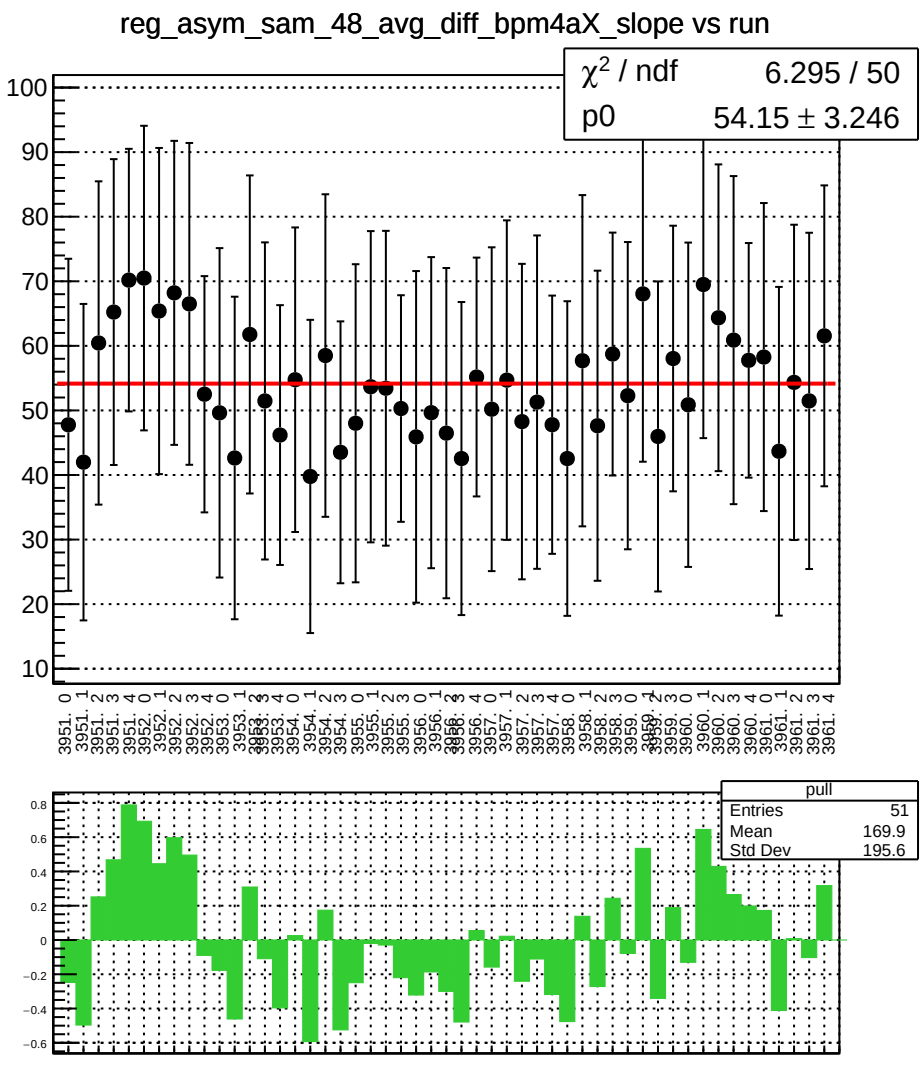

pull1D
Entries 51
Mean −0.00751
Std Dev 0.564

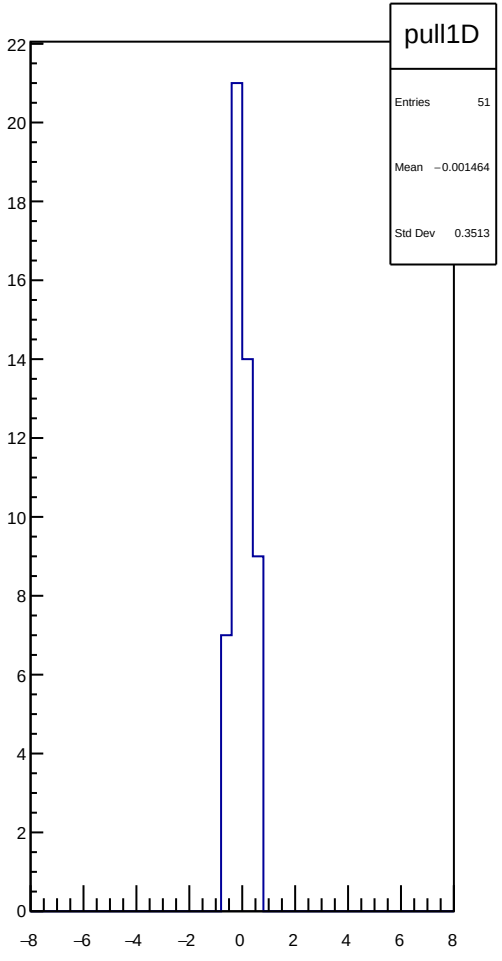

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.6 / 50
p0 −487.6 ± 1.404
pull
Entries 51
Mean 257.8
Std Dev 215.7
pull1D
Entries 51
Mean −0.01583
Std Dev 0.7486

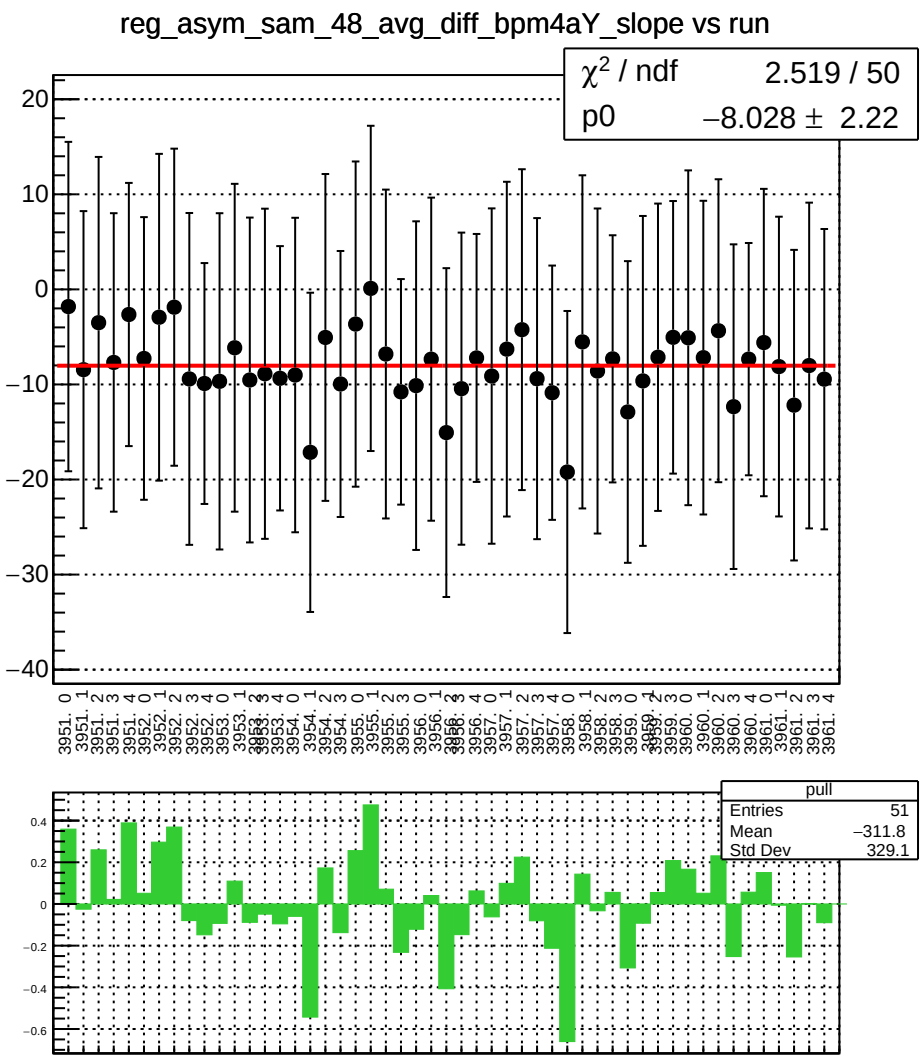

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.52 / 50
p0 132.4 ± 9.414
pull
Entries 51
Mean 391.3
Std Dev 371.1

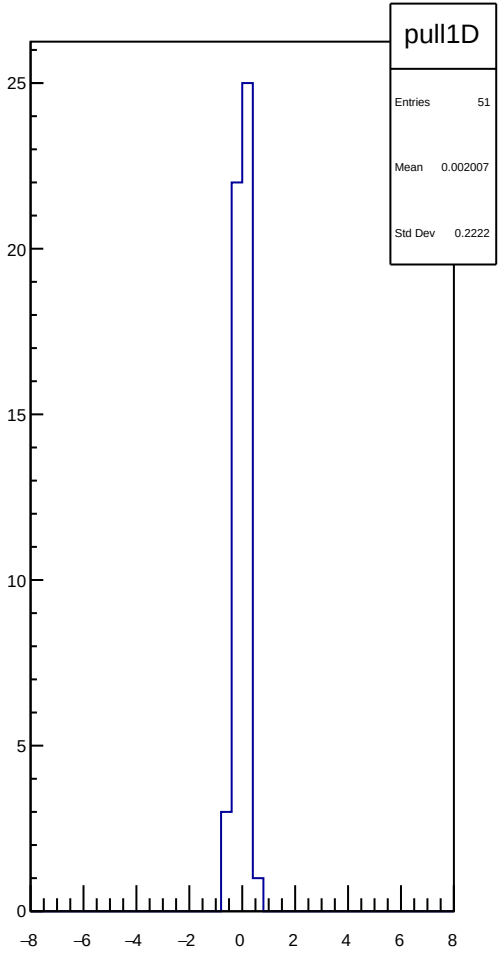

pull1D
Entries 51
Mean 0.004324
Std Dev 0.5862

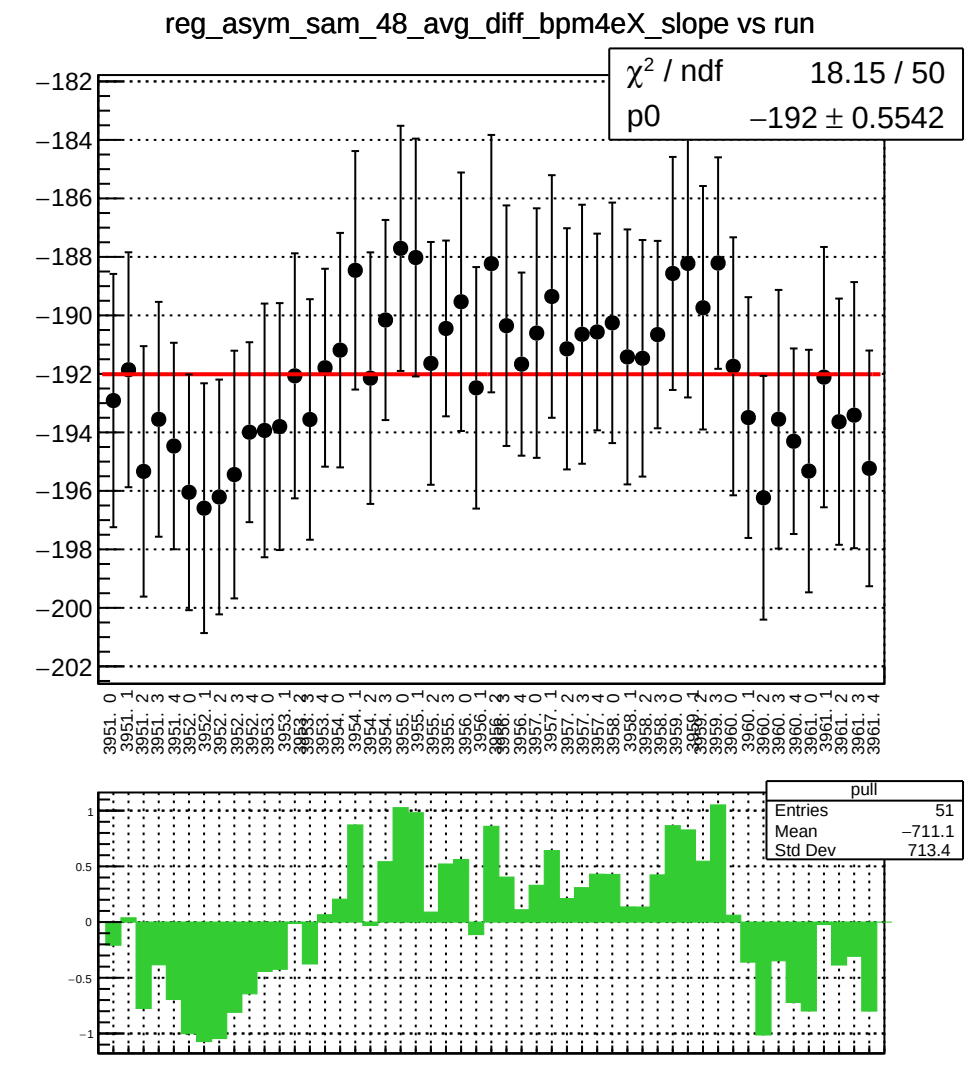

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 3.003 / 50
p0 7.644 ± 1.449
pull
Entries 51
Mean 25.53
Std Dev 67.06
pull1D
Entries 51
Mean −0.002543
Std Dev 0.2427

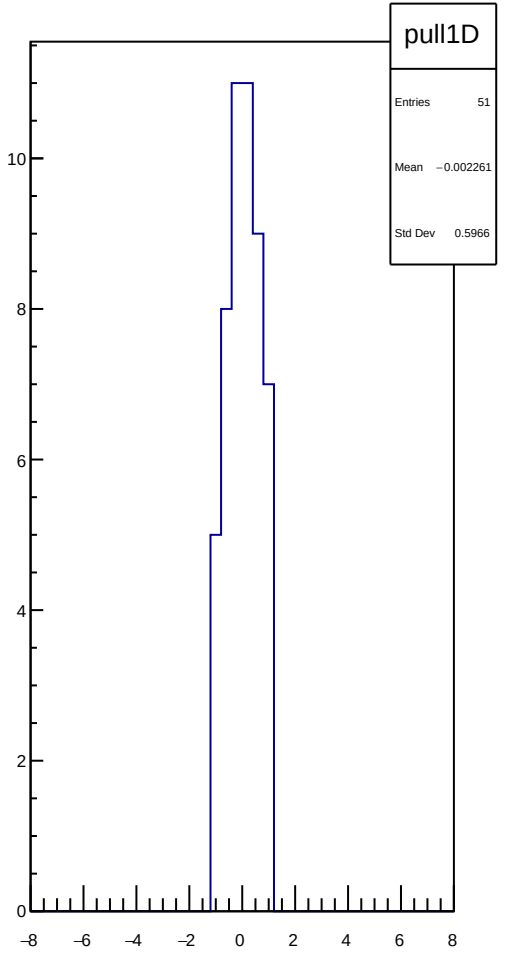

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.295 / 50
p0 54.15 ± 3.246
pull
Entries 51
Mean 169.9
Std Dev 195.6

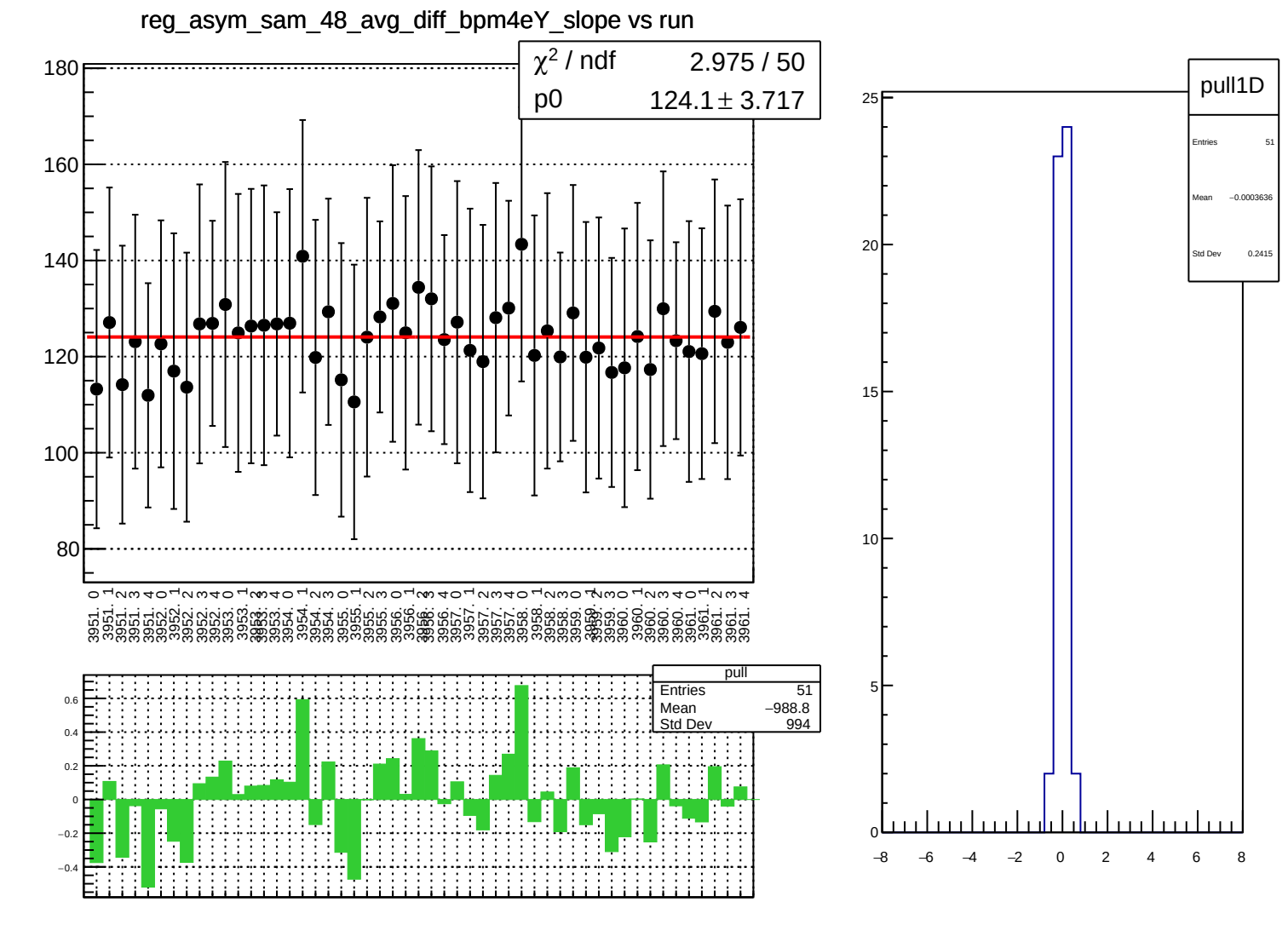

pull1D
Entries 51
Mean −0.001464
Std Dev 0.3513

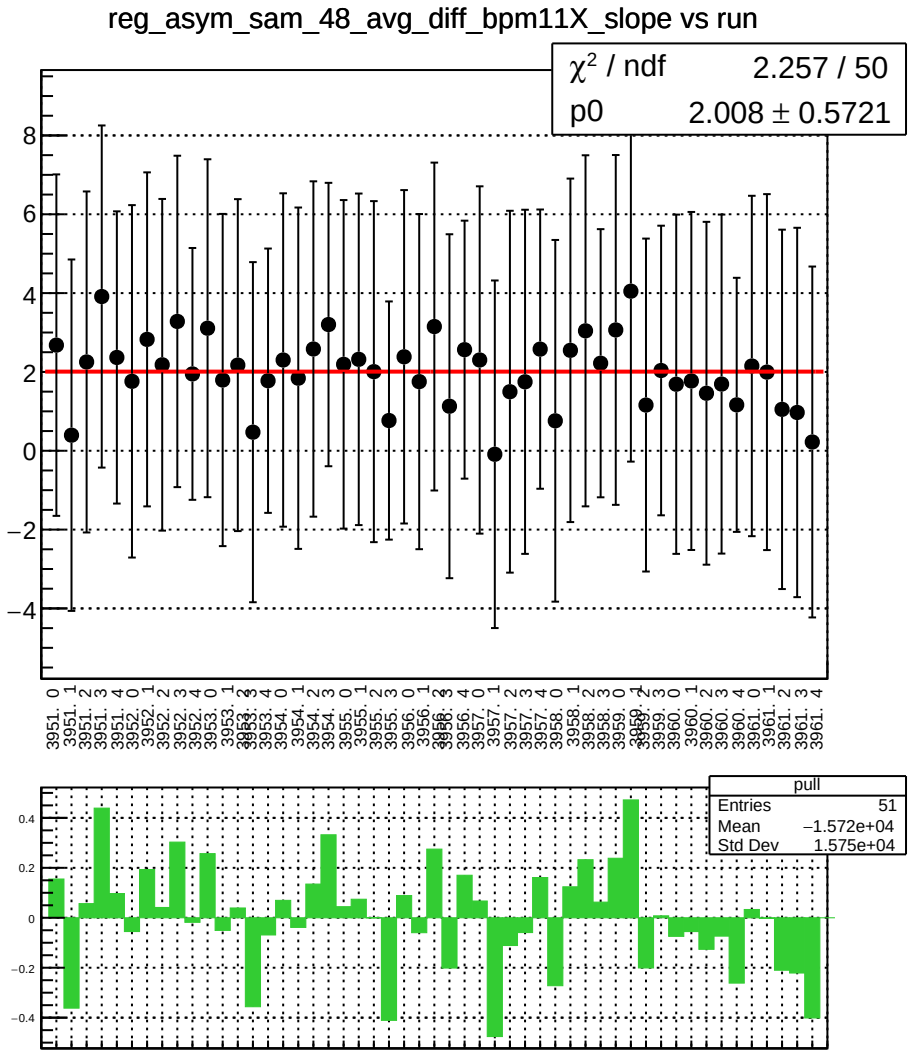

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.519 / 50
p0 −8.028 ± 2.22
pull
Entries 51
Mean −311.8
Std Dev 329.1

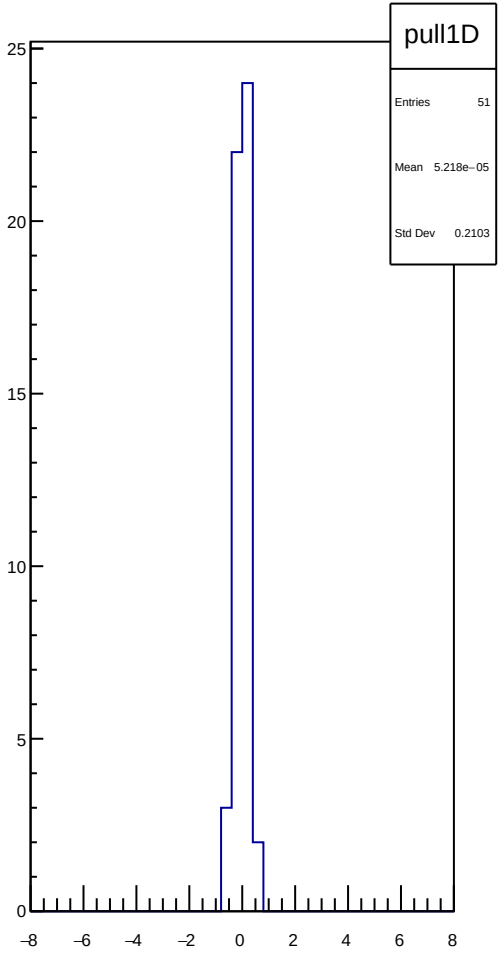

pull1D
Entries 51
Mean 0.002007
Std Dev 0.2222

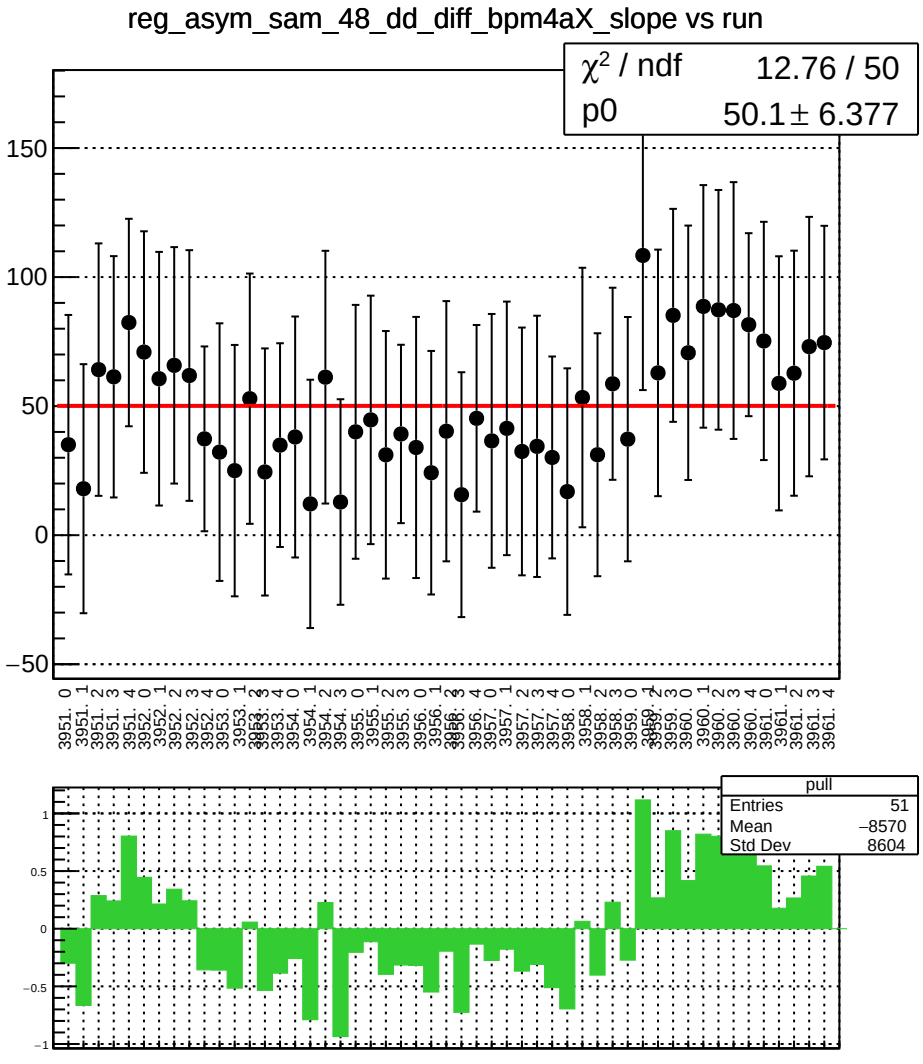

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.15 / 50
p0 −192 ± 0.5542
pull
Entries 51
Mean −711.1
Std Dev 713.4

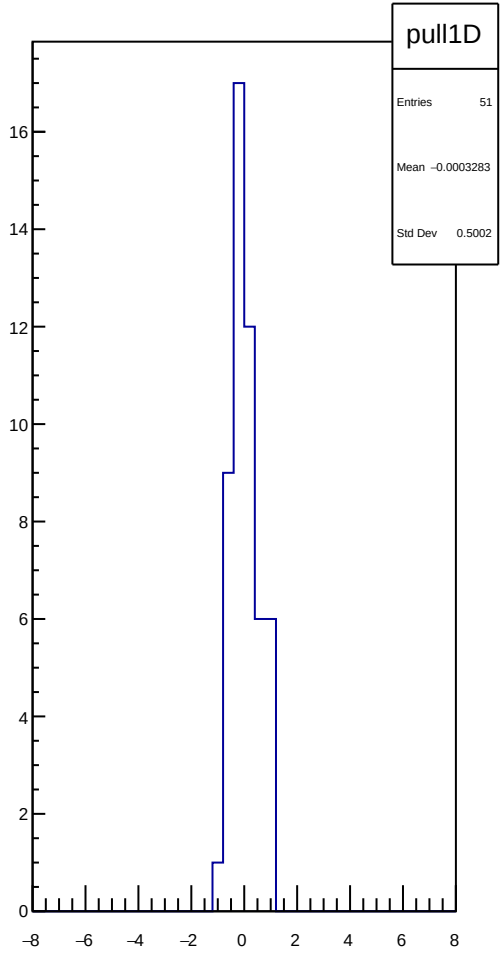

pull1D
Entries 51
Mean −0.002261
Std Dev 0.5966

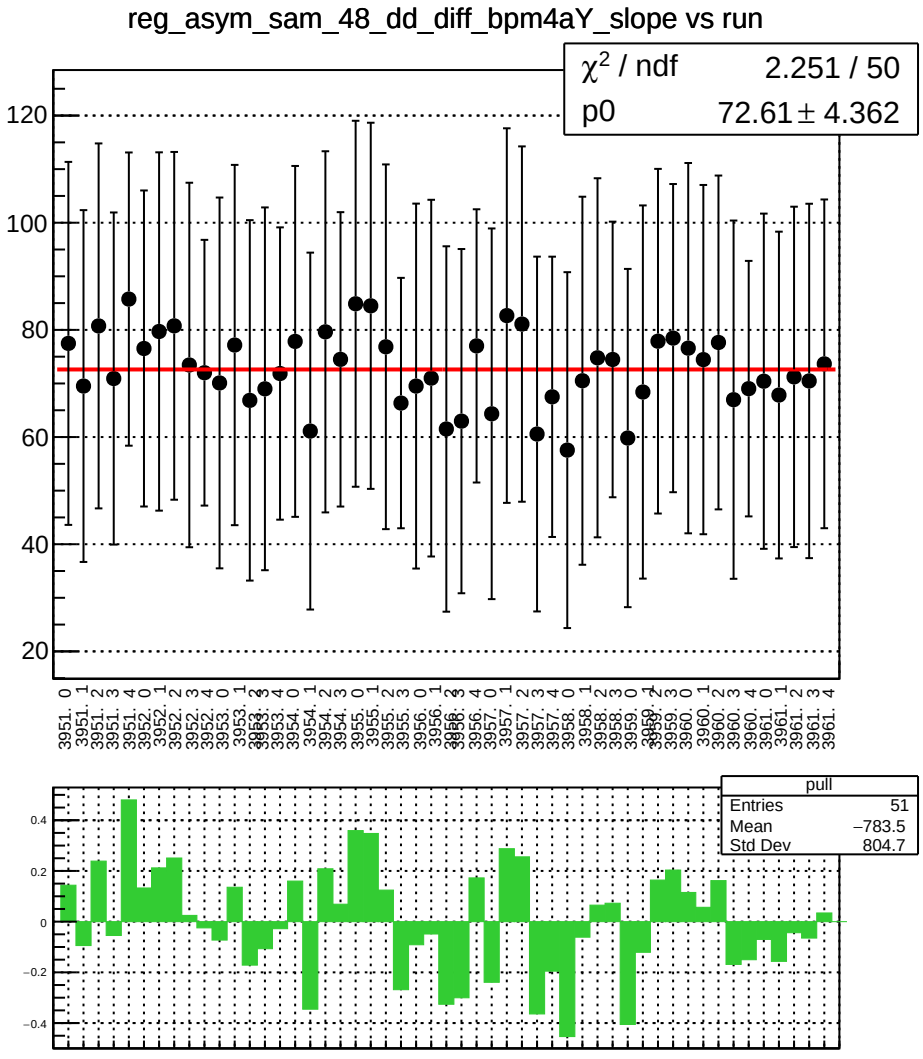

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.975 / 50
p0 124.1 ± 3.717
pull
Entries 51
Mean −988.8
Std Dev 994
pull1D
Entries 51
Mean −0.0003636
Std Dev 0.2415

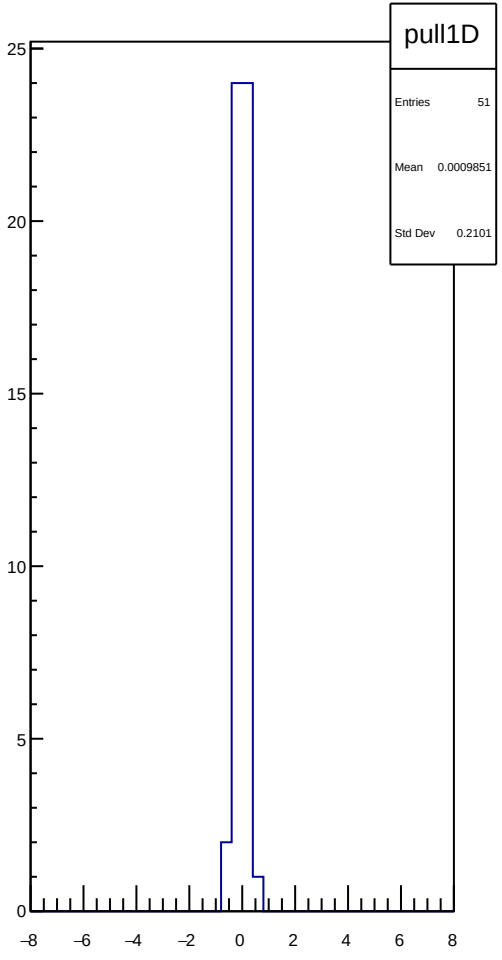

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 2.257 / 50
p0 2.008 ± 0.5721
pull
Entries 51
Mean −1.572e+04
Std Dev 1.575e+04

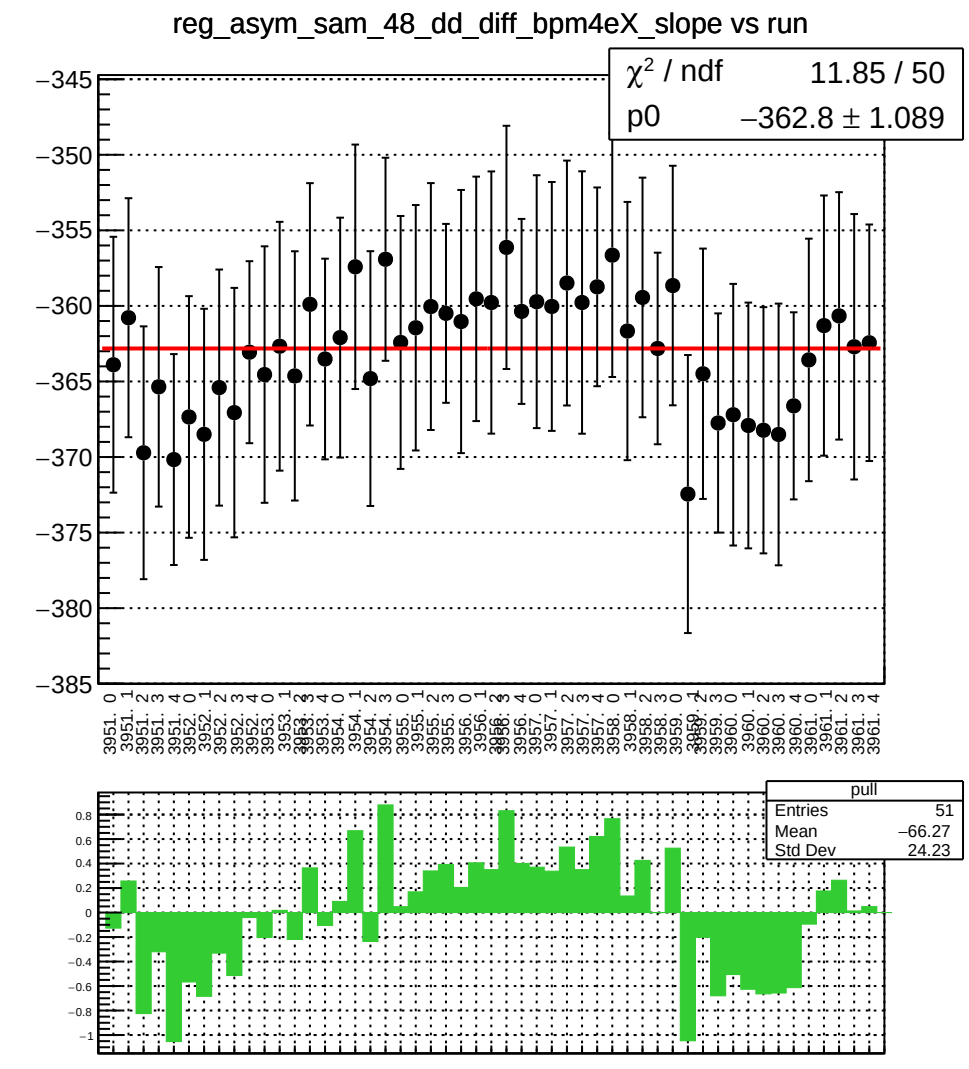

pull1D
Entries 51
Mean 5.218e−05
Std Dev 0.2103

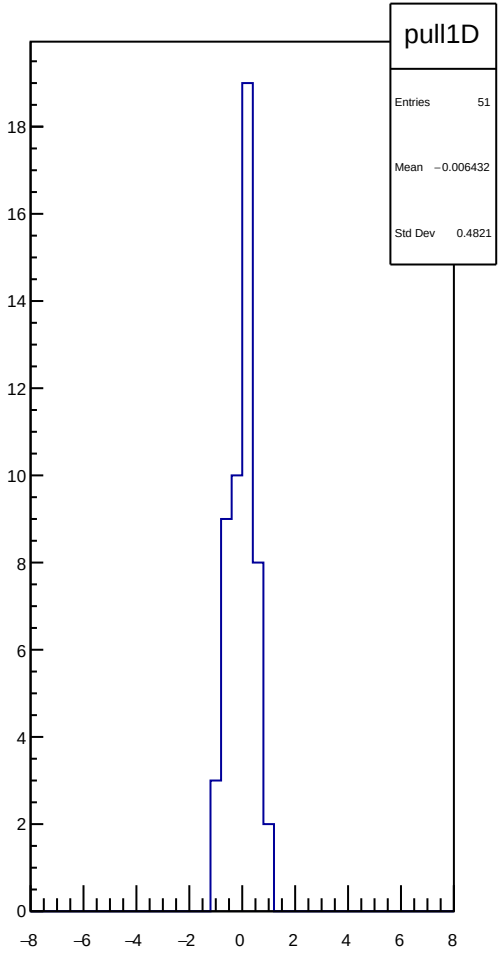

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.76 / 50
p0 50.1 ± 6.377
150
100
50
0
−50
pull
Entries 51
Mean −8570
Std Dev 8604
1
0.5
0
−0.5
−1

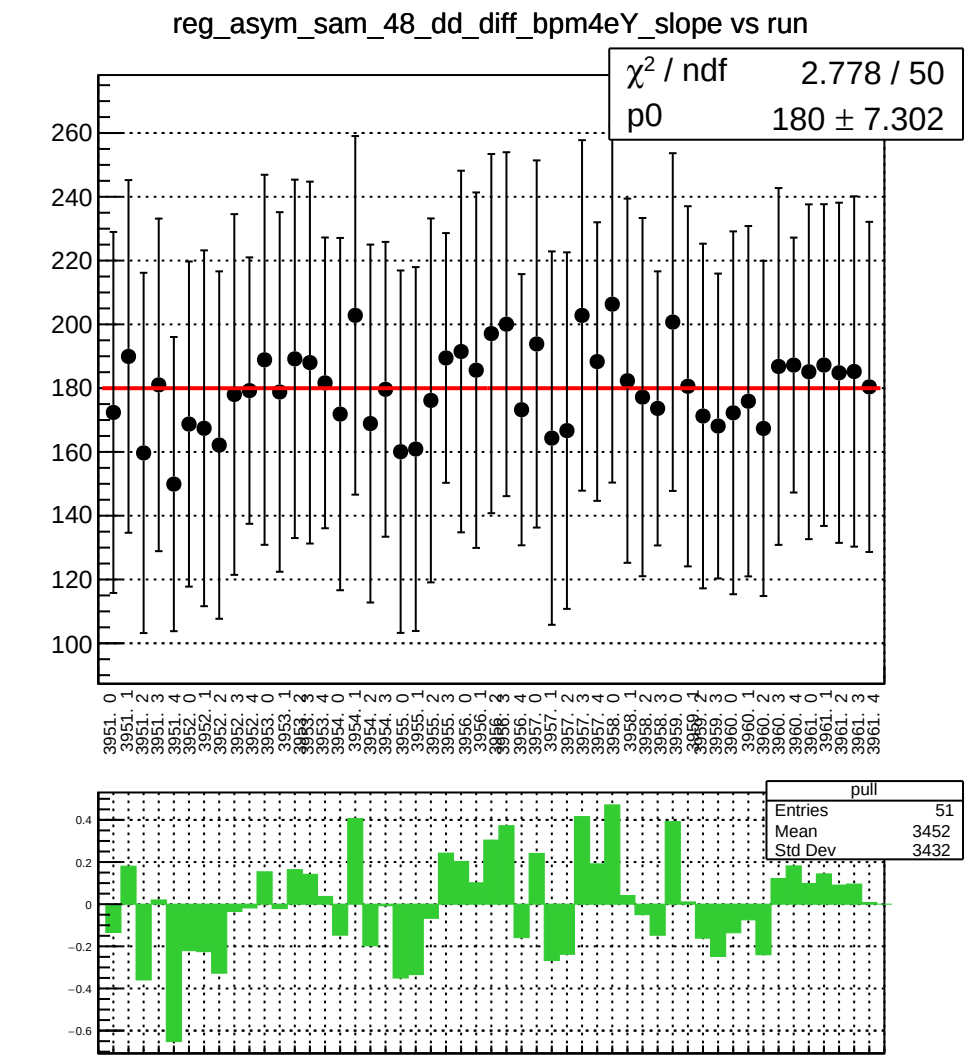

pull1D
Entries 51
Mean −0.0003283
Std Dev 0.5002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

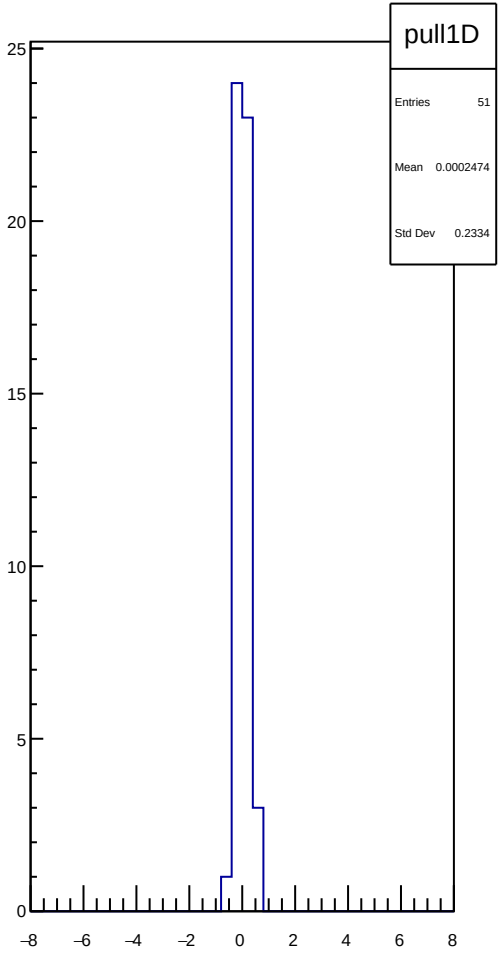

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.251 / 50
p0 72.61 ± 4.362
pull
Entries 51
Mean −783.5
Std Dev 804.7

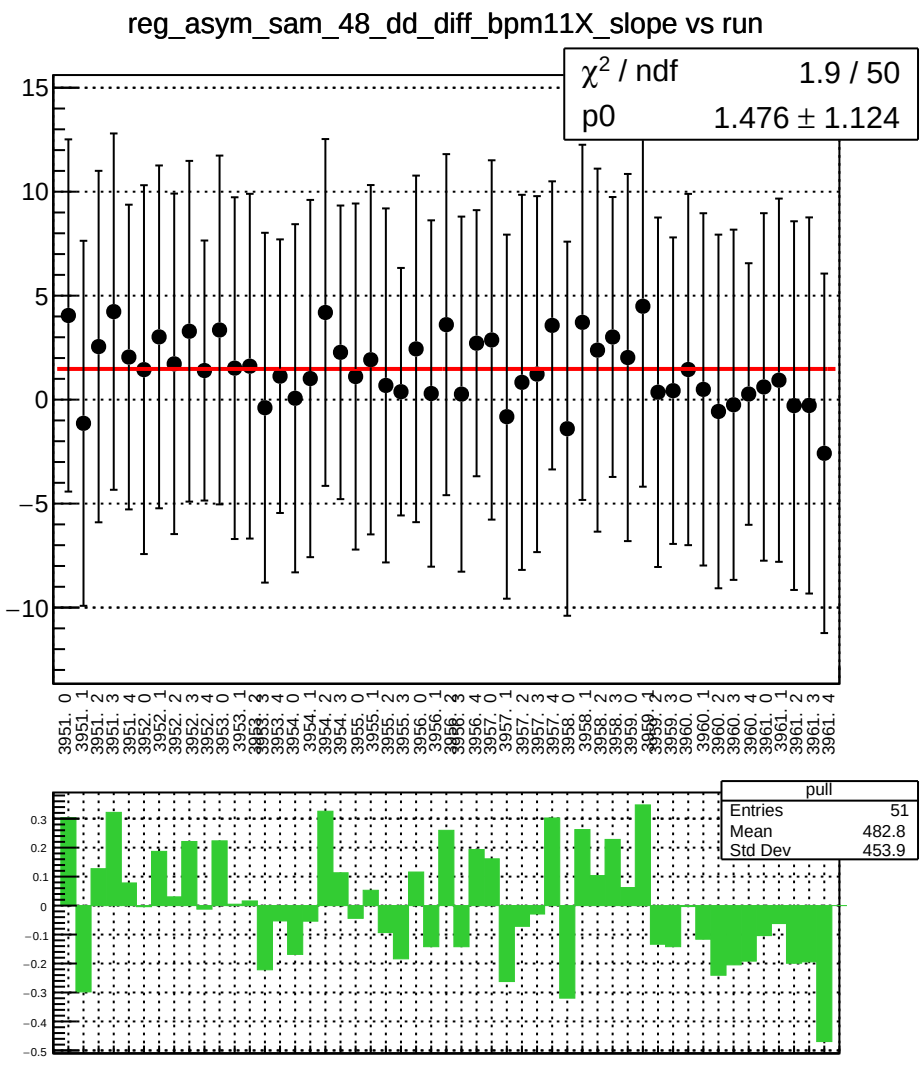

pull1D
Entries 51
Mean 0.0009851
Std Dev 0.2101

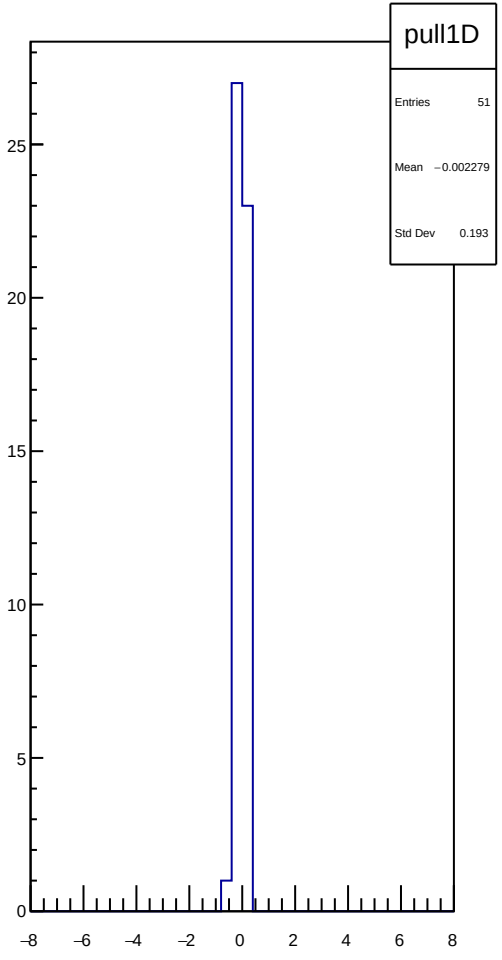

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.85 / 50
p0 −362.8 ± 1.089
pull
Entries 51
Mean −66.27
Std Dev 24.23

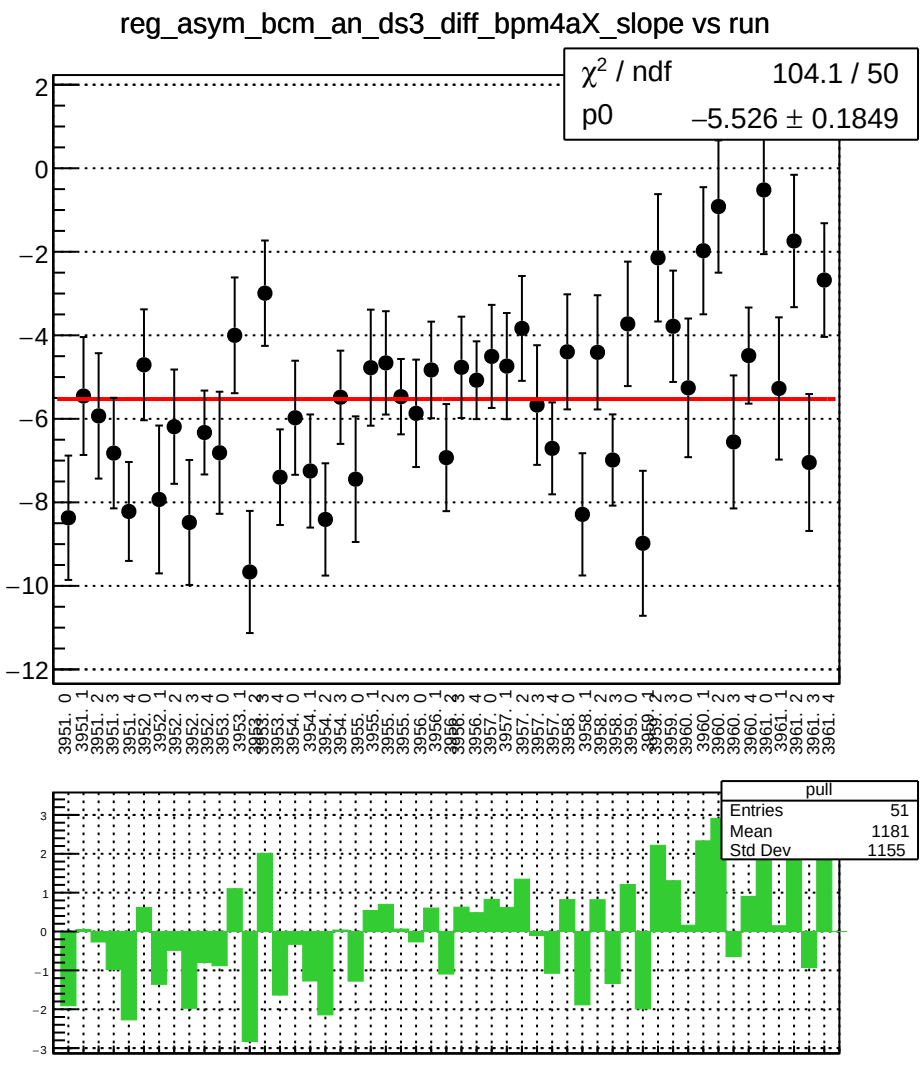

pull1D
Entries 51
Mean −0.006432
Std Dev 0.4821

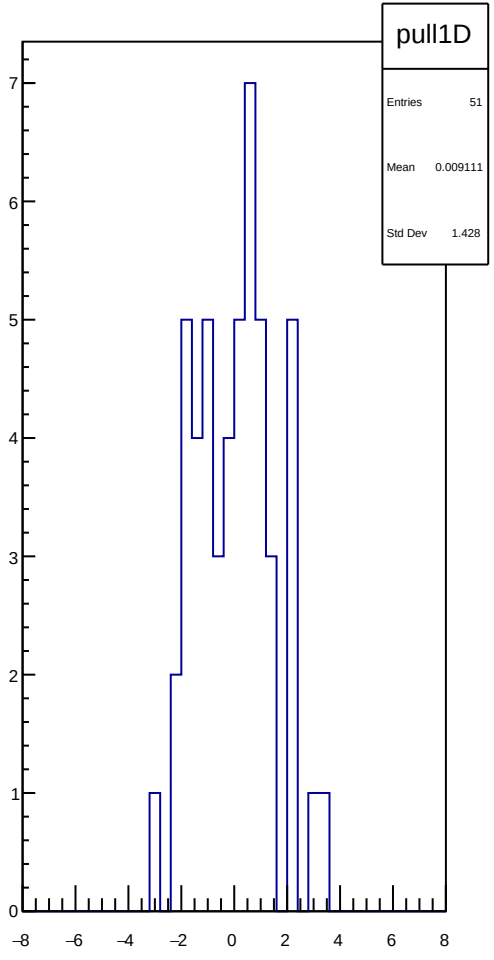

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.778 / 50
p0 180 ± 7.302
pull
Entries 51
Mean 3452
Std Dev 3432

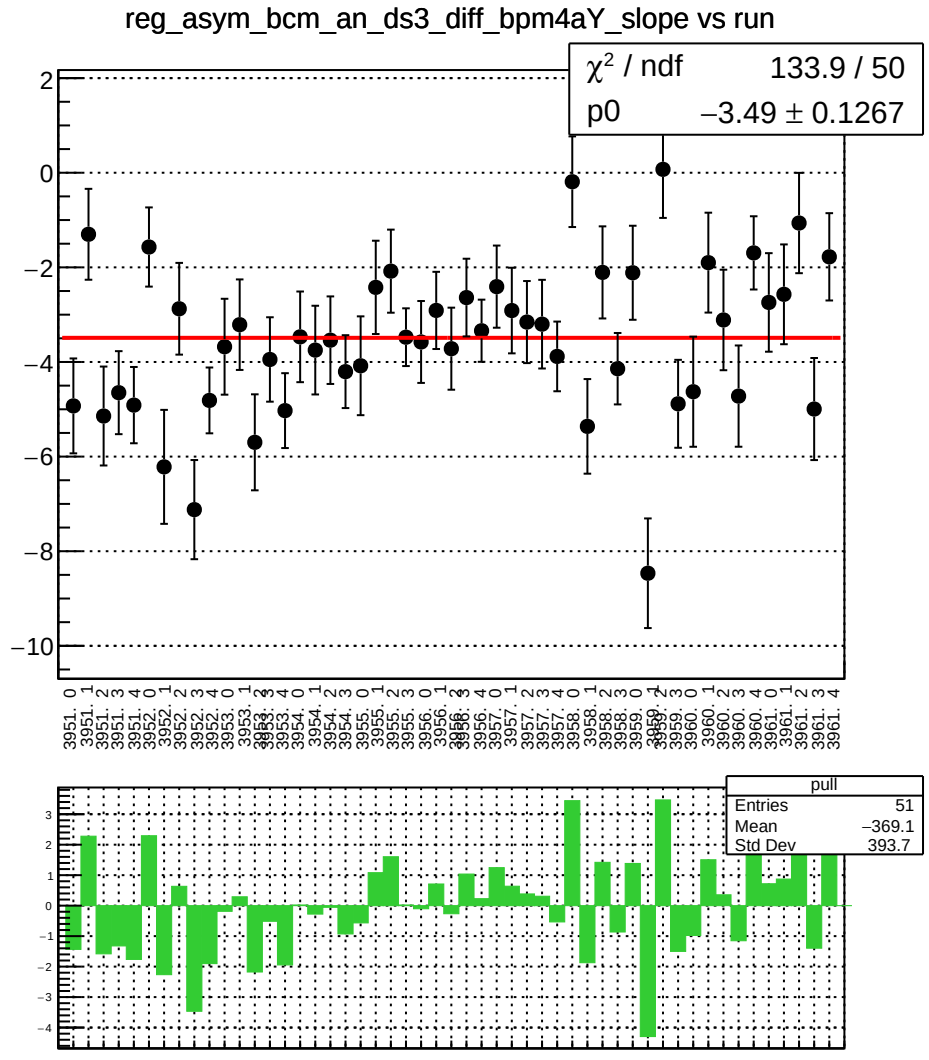

pull1D
Entries 51
Mean 0.0002474
Std Dev 0.2334

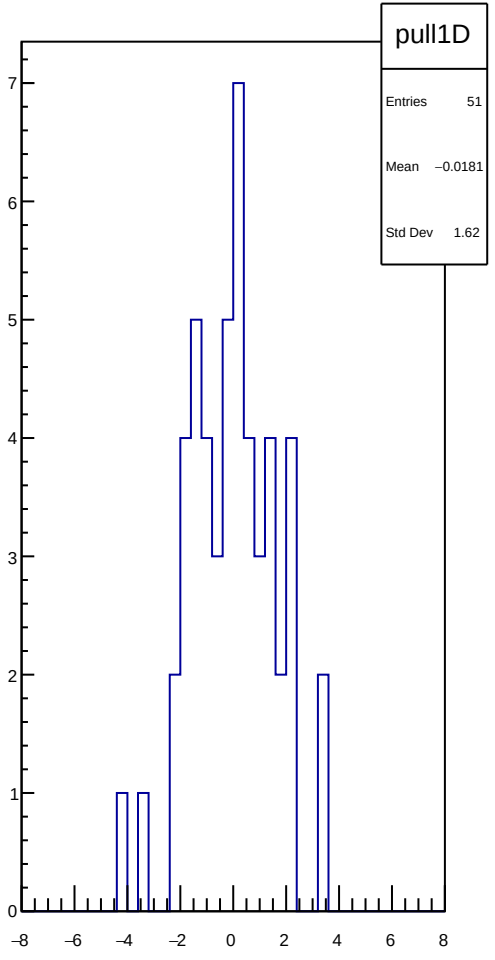

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 1.9 / 50
p0 1.476 ± 1.124
pull
Entries 51
Mean 482.8
Std Dev 453.9

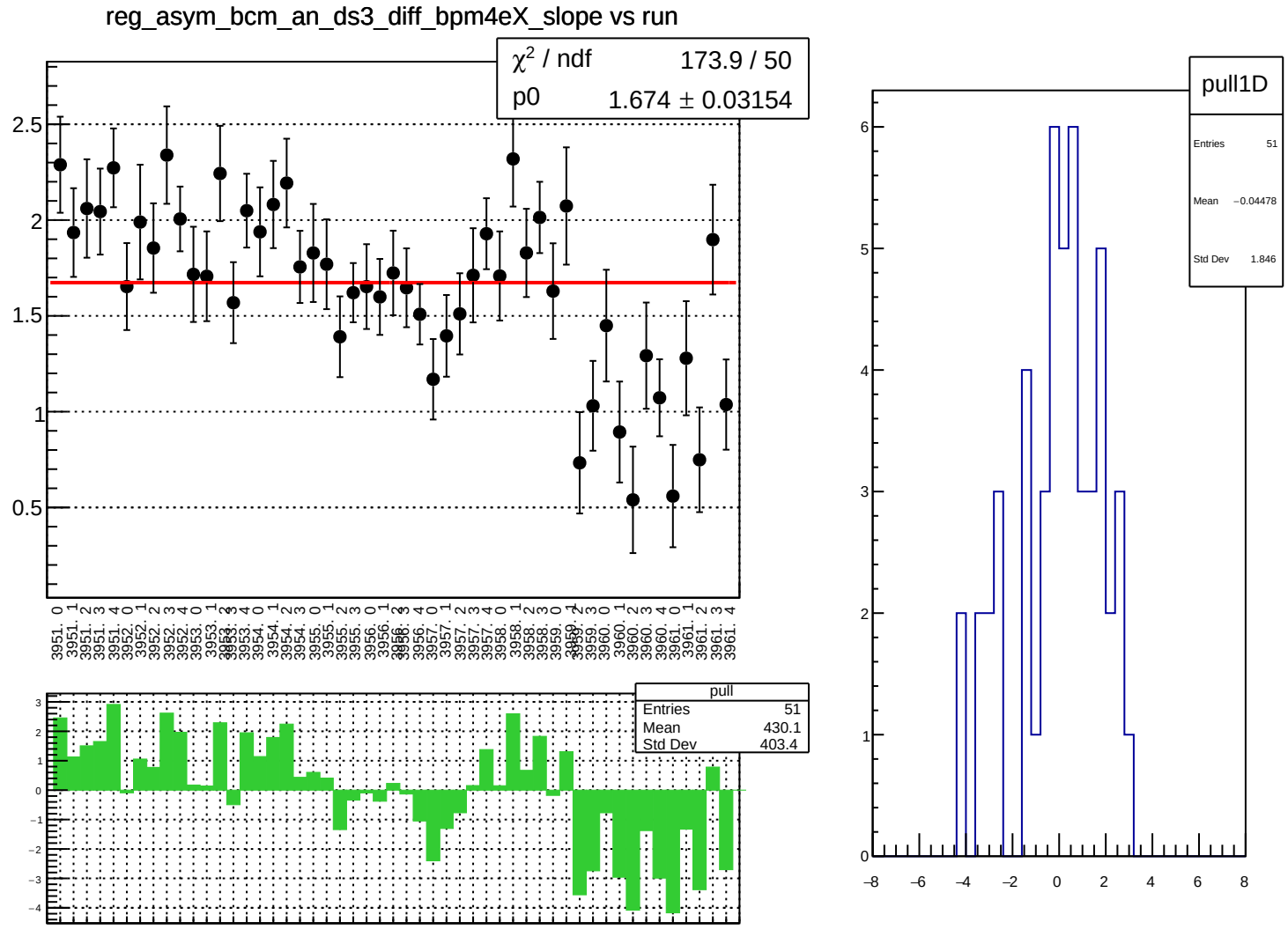

pull1D
Entries 51
Mean −0.002279
Std Dev 0.193

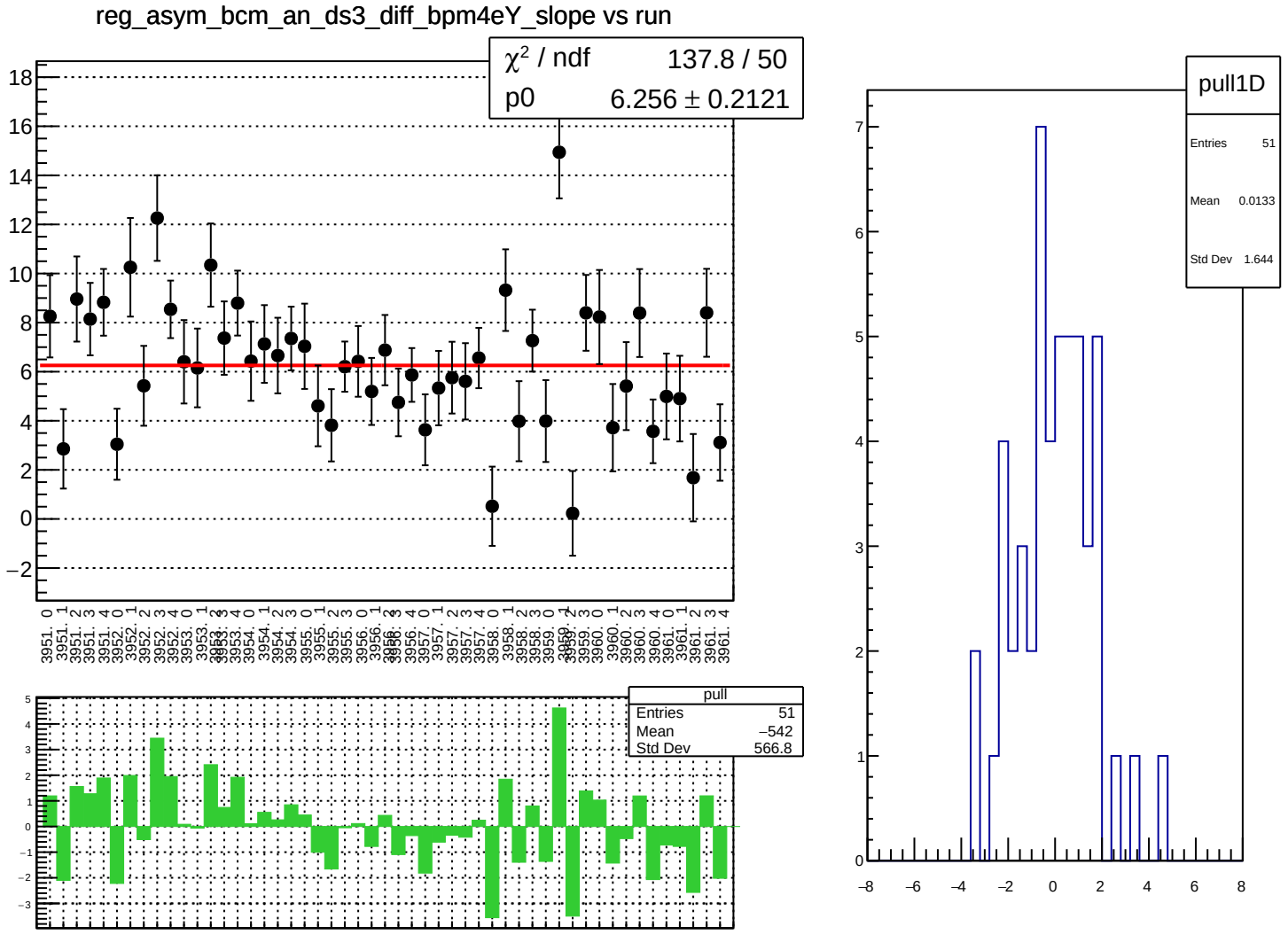

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 104.1 / 50
p0 −5.526 ± 0.1849
pull
Entries 51
Mean 1181
Std Dev 1155

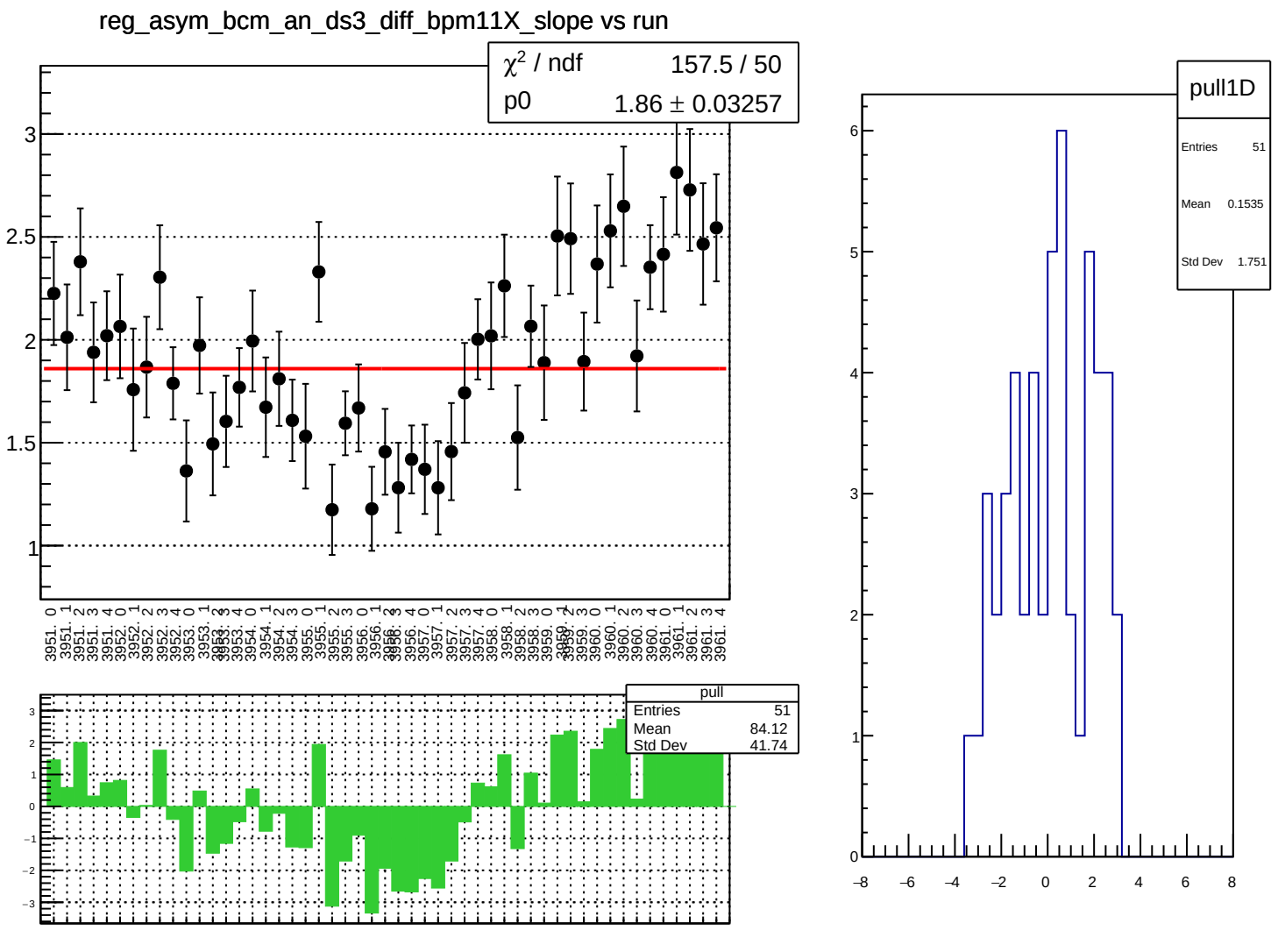

pull1D
Entries 51
Mean 0.009111
Std Dev 1.428

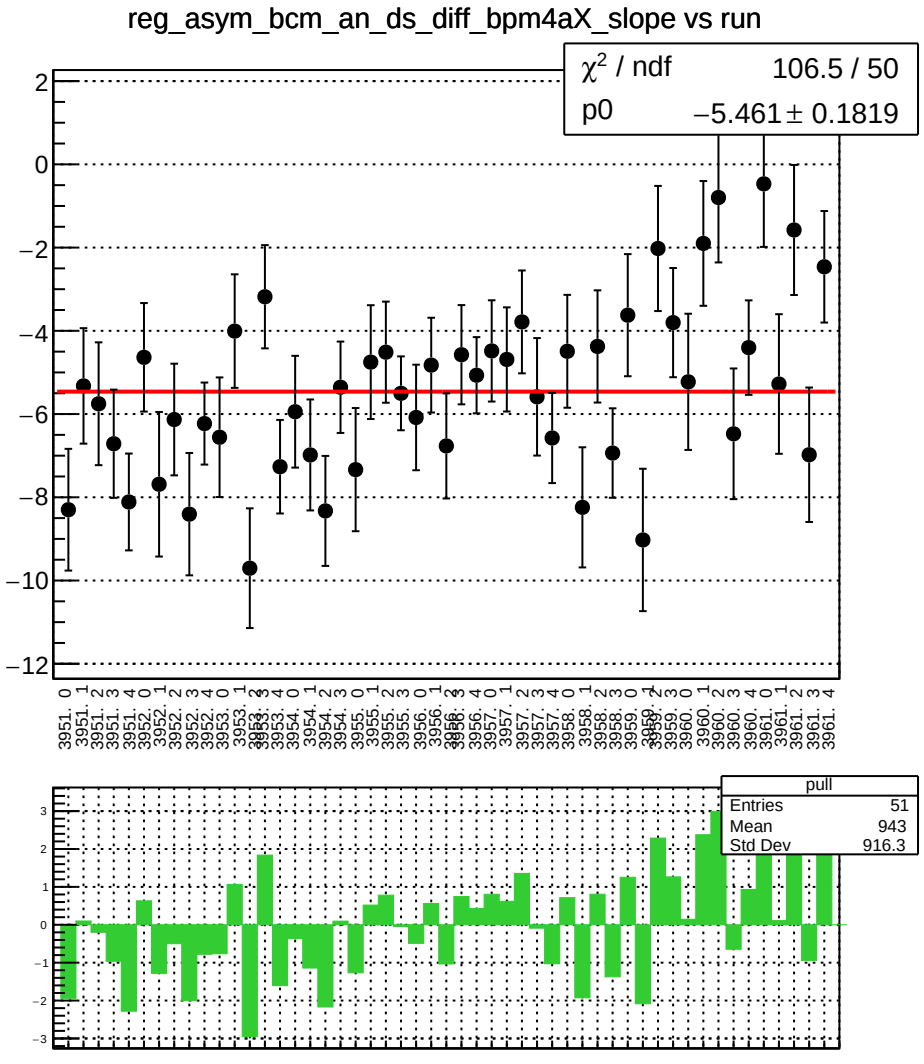

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 133.9 / 50
p0 −3.49 ± 0.1267
pull
Entries 51
Mean −369.1
Std Dev 393.7

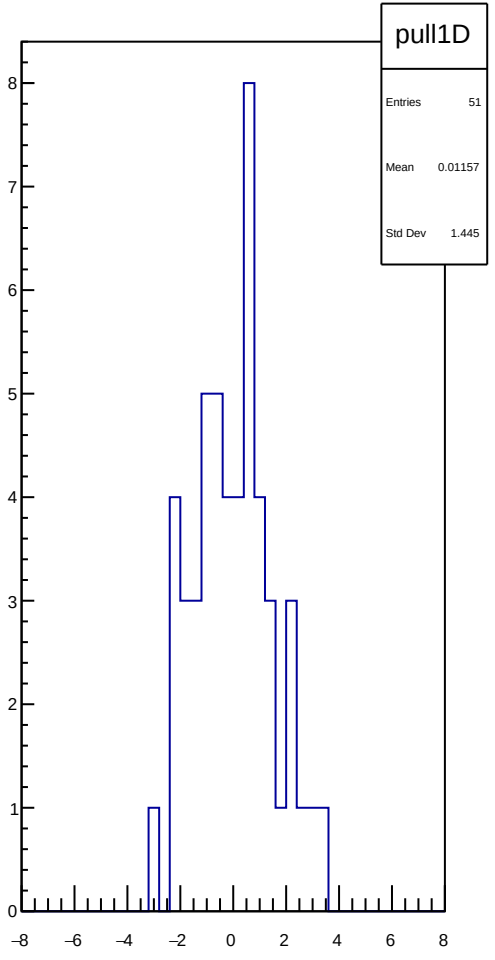

pull1D
Entries 51
Mean −0.0181
Std Dev 1.62

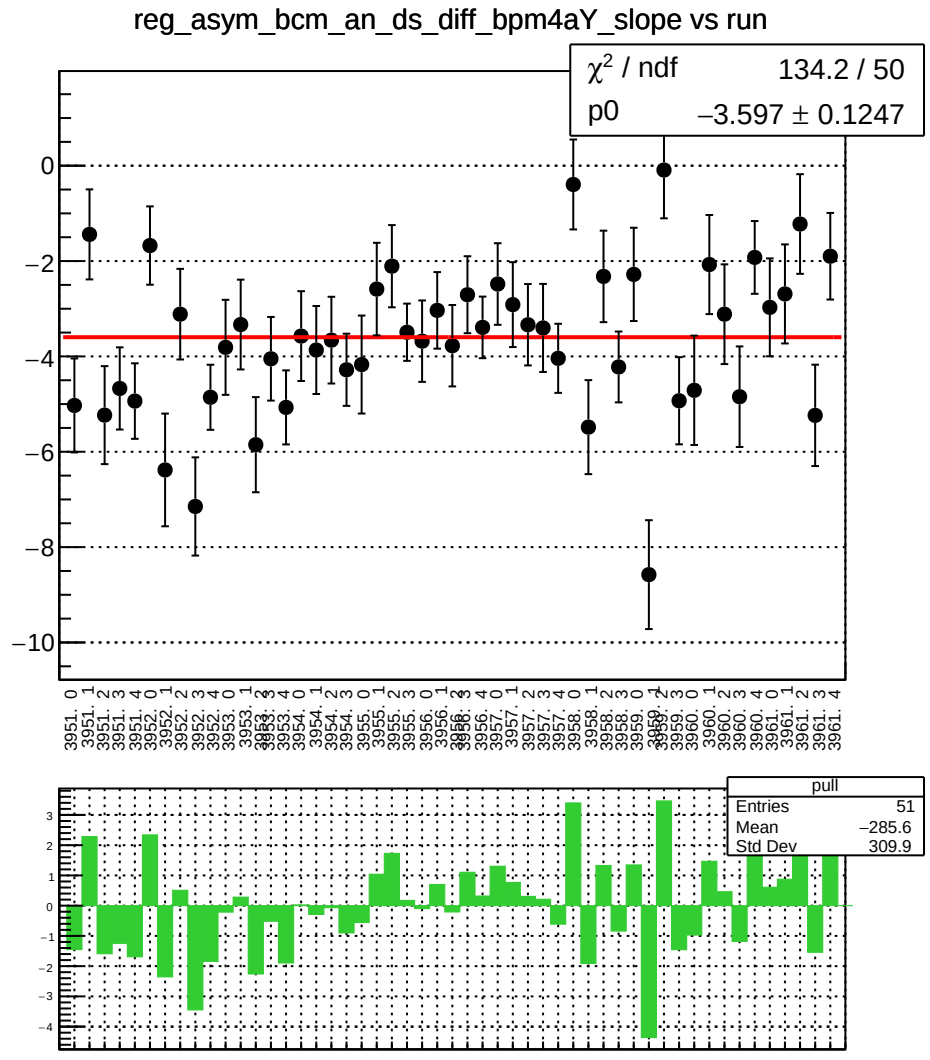

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 173.9 / 50
p0 1.674 ± 0.03154
pull
Entries 51
Mean 430.1
Std Dev 403.4
pull1D
Entries 51
Mean −0.04478
Std Dev 1.846

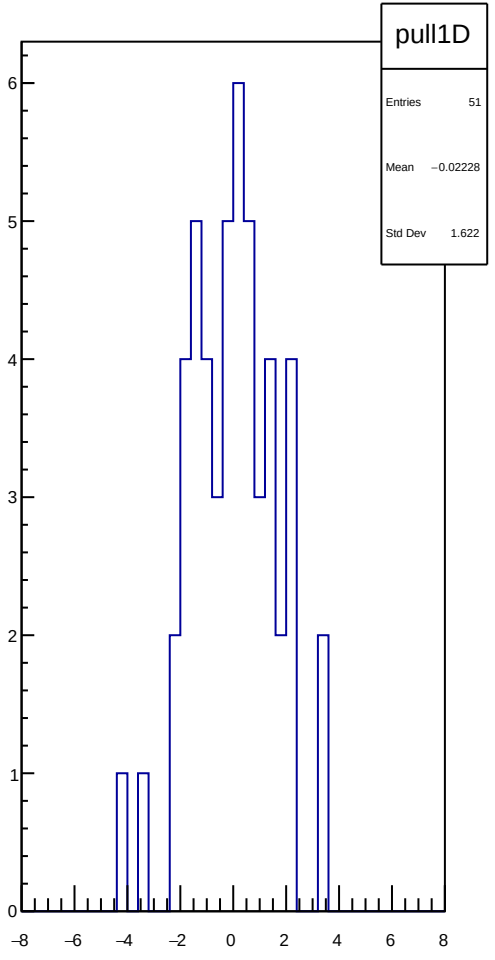

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 137.8 / 50
p0 6.256 ± 0.2121
pull
Entries 51
Mean −542
Std Dev 566.8
pull1D
Entries 51
Mean 0.0133
Std Dev 1.644

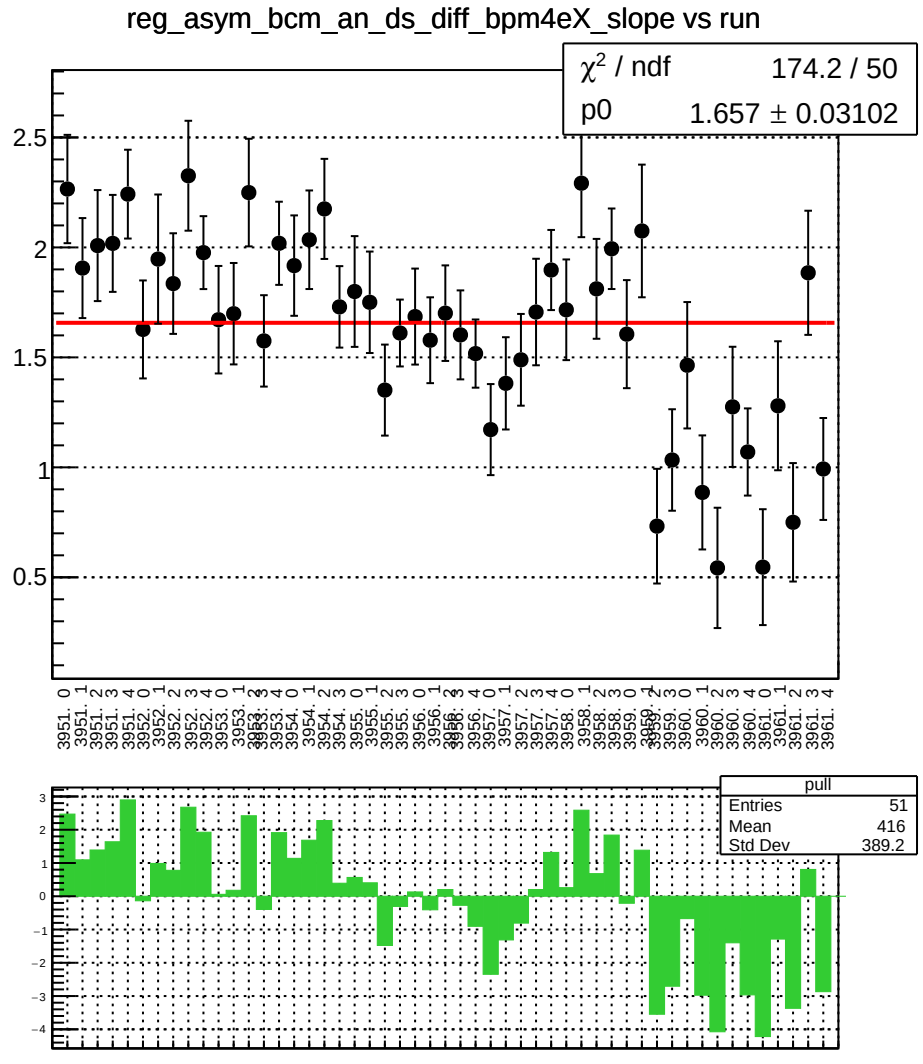

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 157.5 / 50
p0 1.86 ± 0.03257
pull
Entries 51
Mean 84.12
Std Dev 41.74
pull1D
Entries 51
Mean 0.1535
Std Dev 1.751

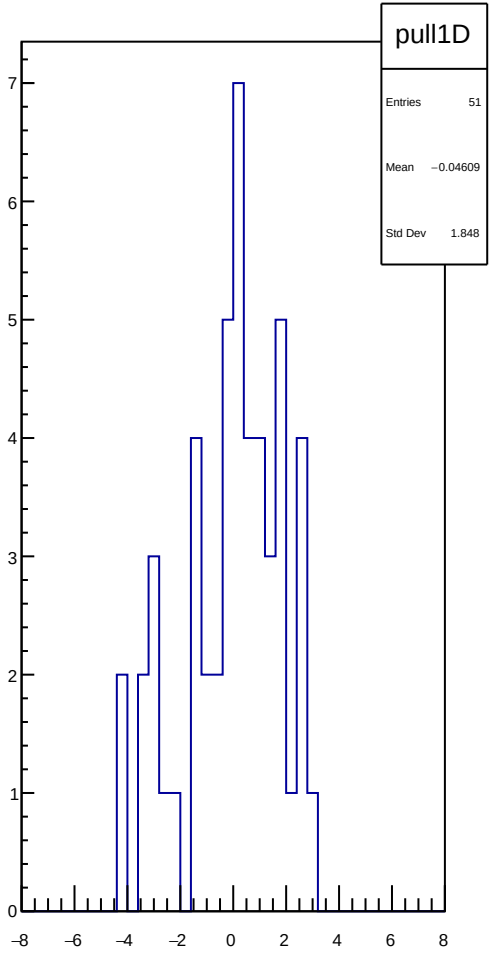

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 106.5 / 50
p0 −5.461 ± 0.1819
pull
Entries 51
Mean 943
Std Dev 916.3

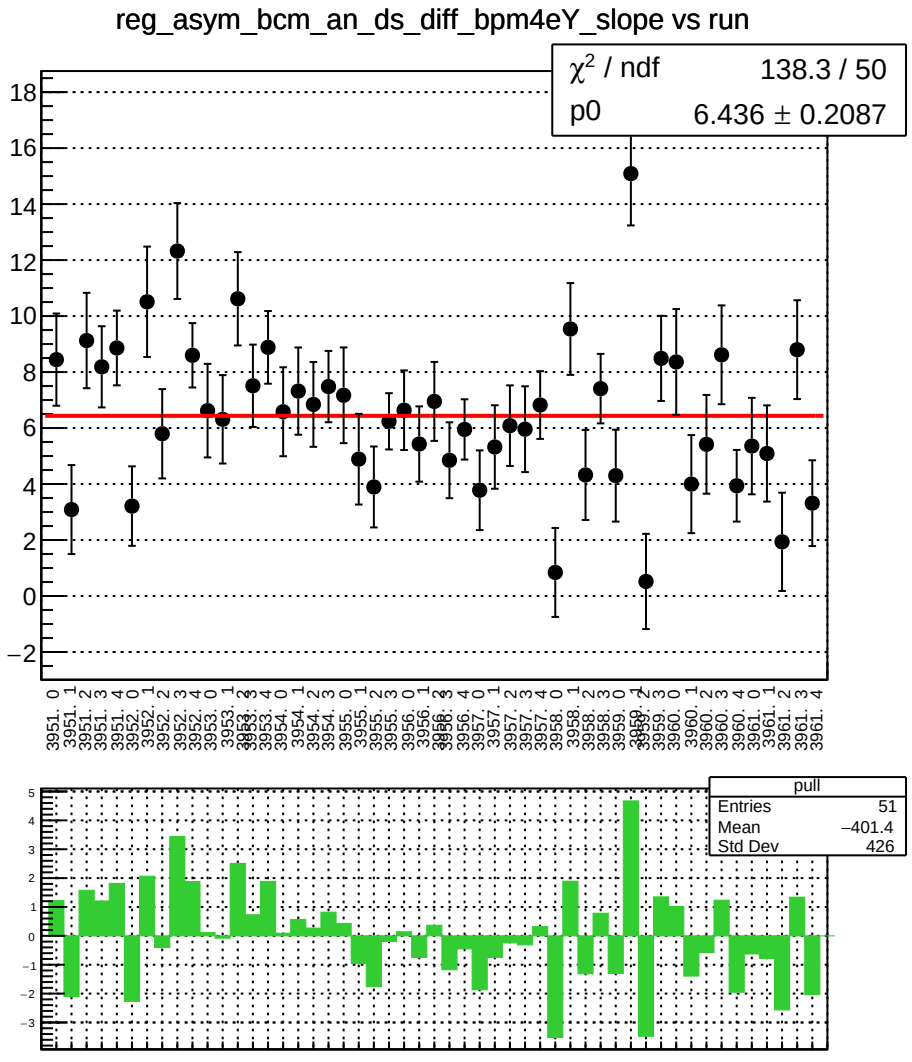

pull1D
Entries 51
Mean 0.01157
Std Dev 1.445

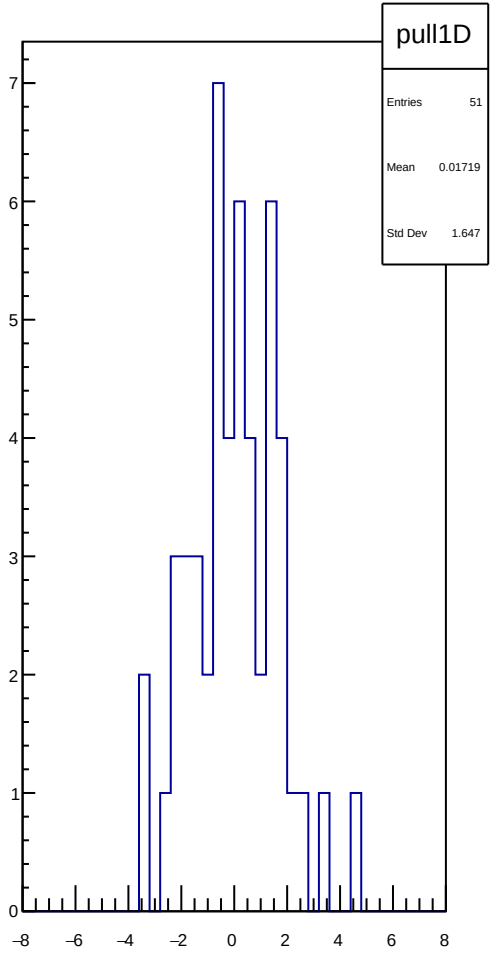

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 134.2 / 50
p0 −3.597 ± 0.1247
pull
Entries 51
Mean −285.6
Std Dev 309.9

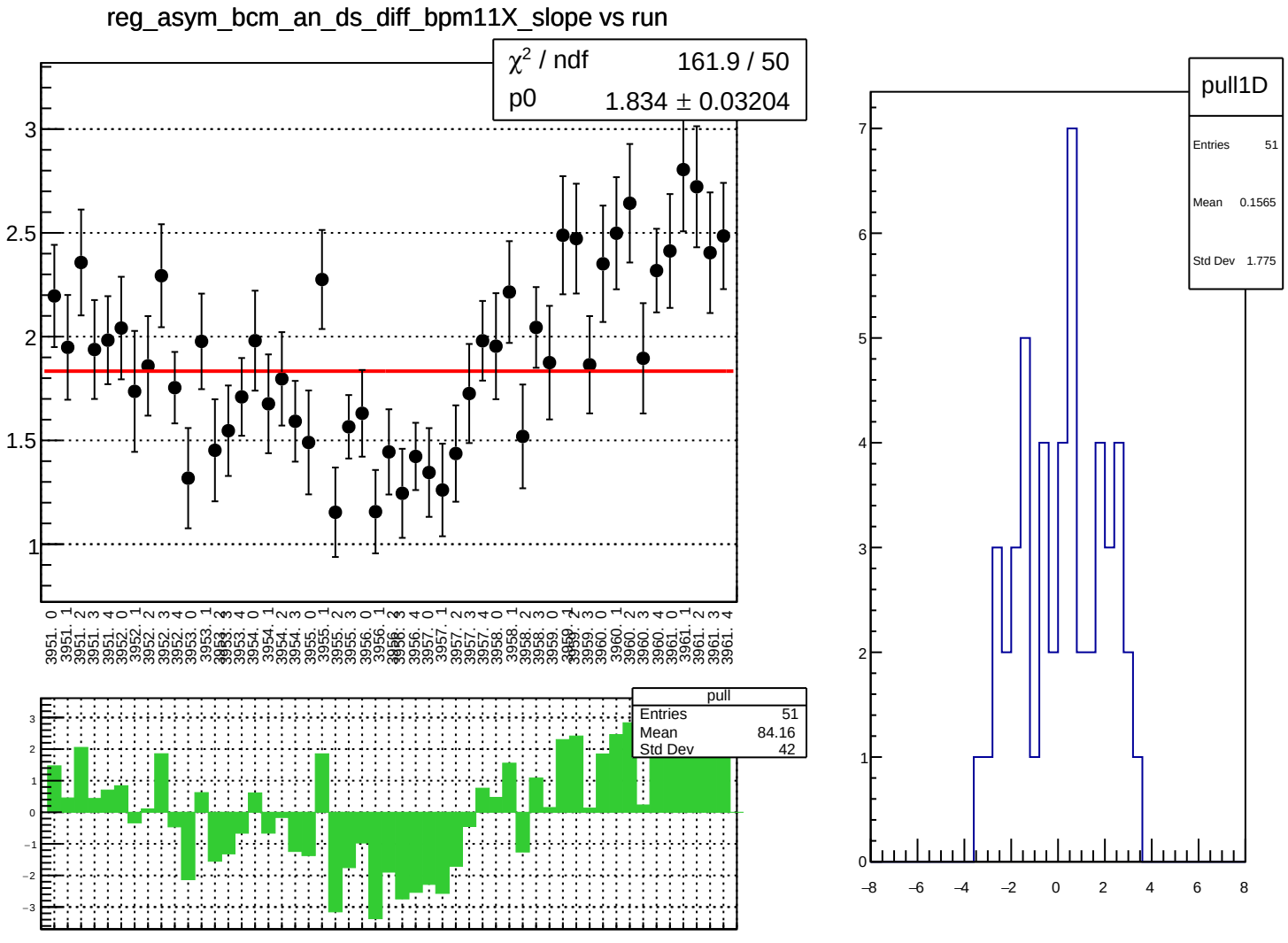

pull1D
Entries 51
Mean −0.02228
Std Dev 1.622

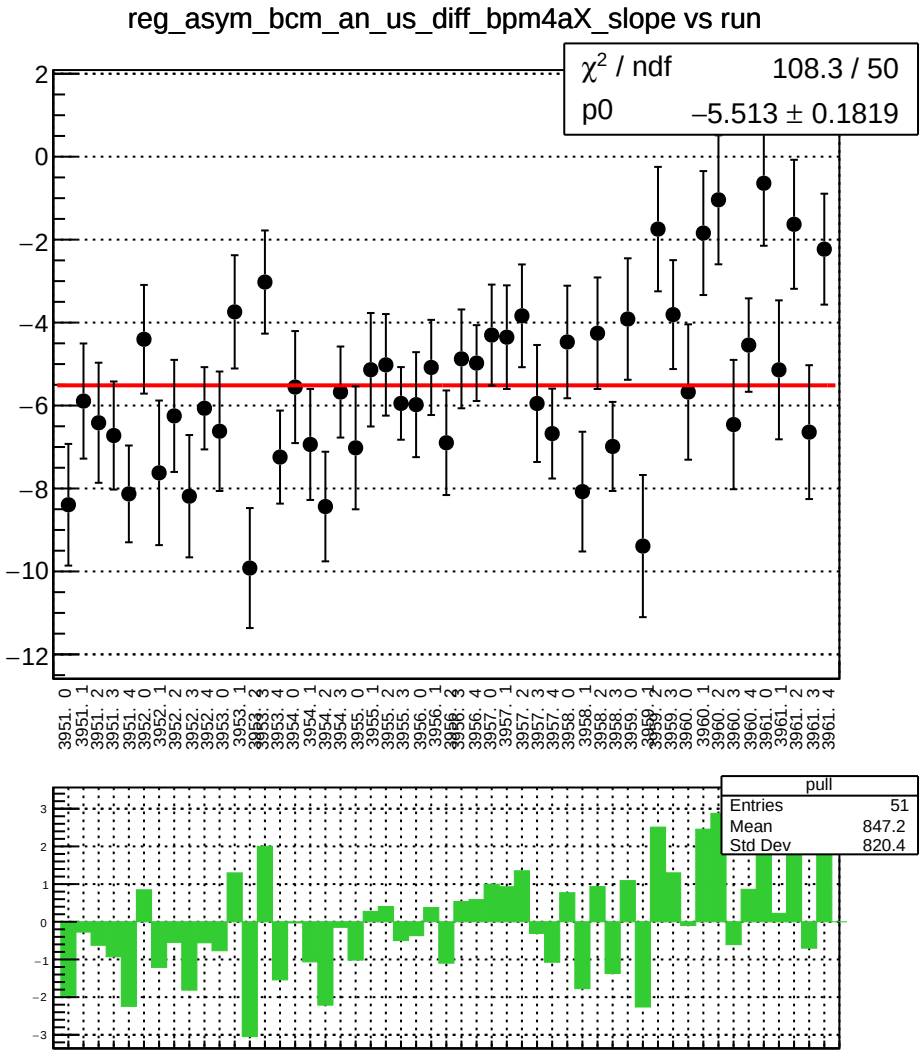

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 174.2 / 50
p0 1.657 ± 0.03102
pull
Entries 51
Mean 416
Std Dev 389.2

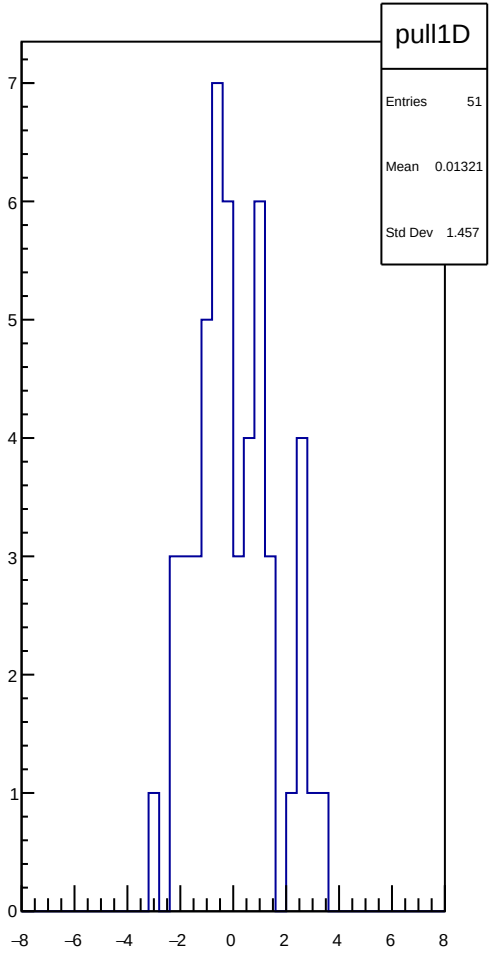

pull1D
Entries 51
Mean −0.04609
Std Dev 1.848

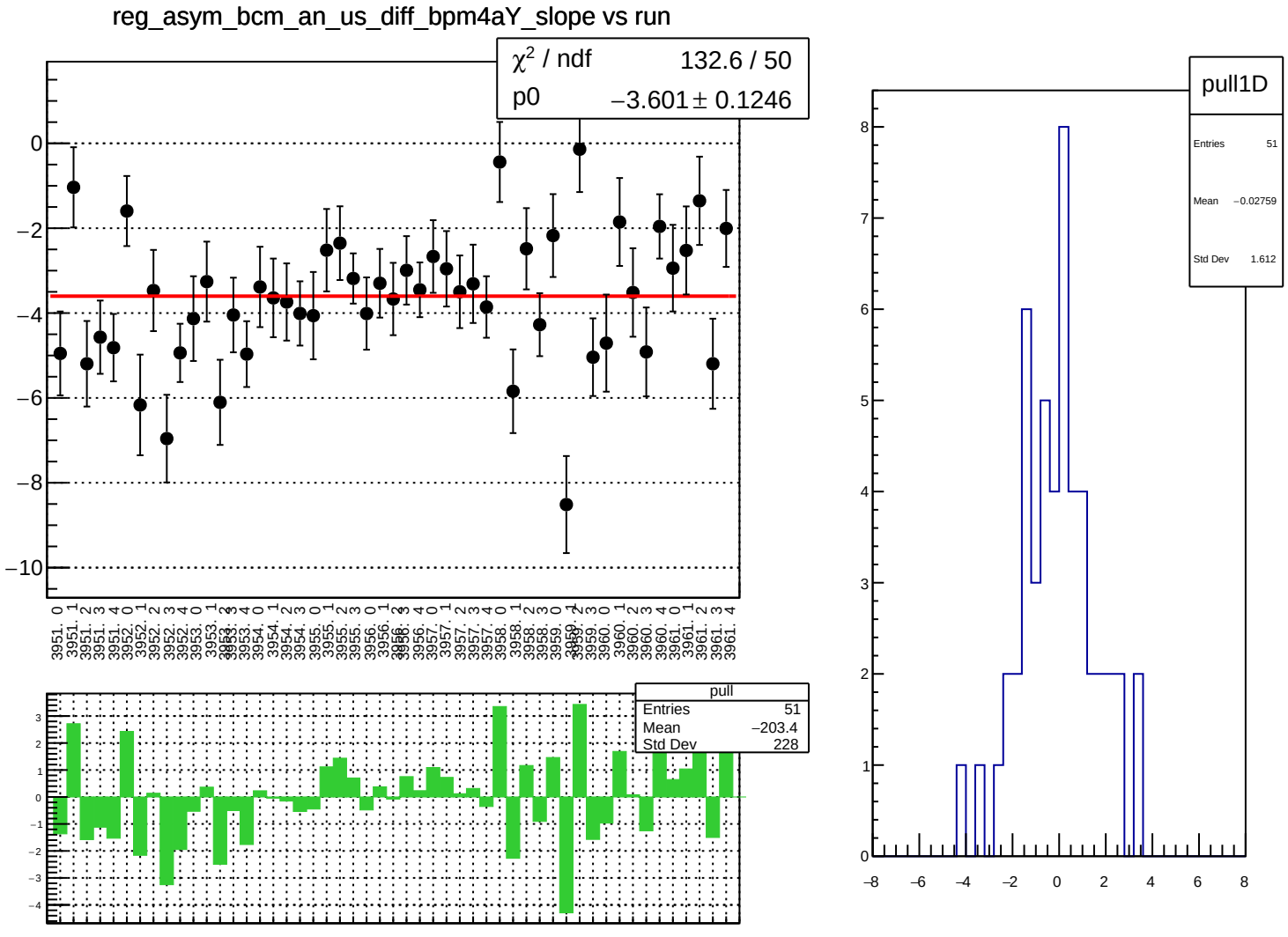

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 138.3 / 50
p0 6.436 ± 0.2087
pull
Entries 51
Mean −401.4
Std Dev 426

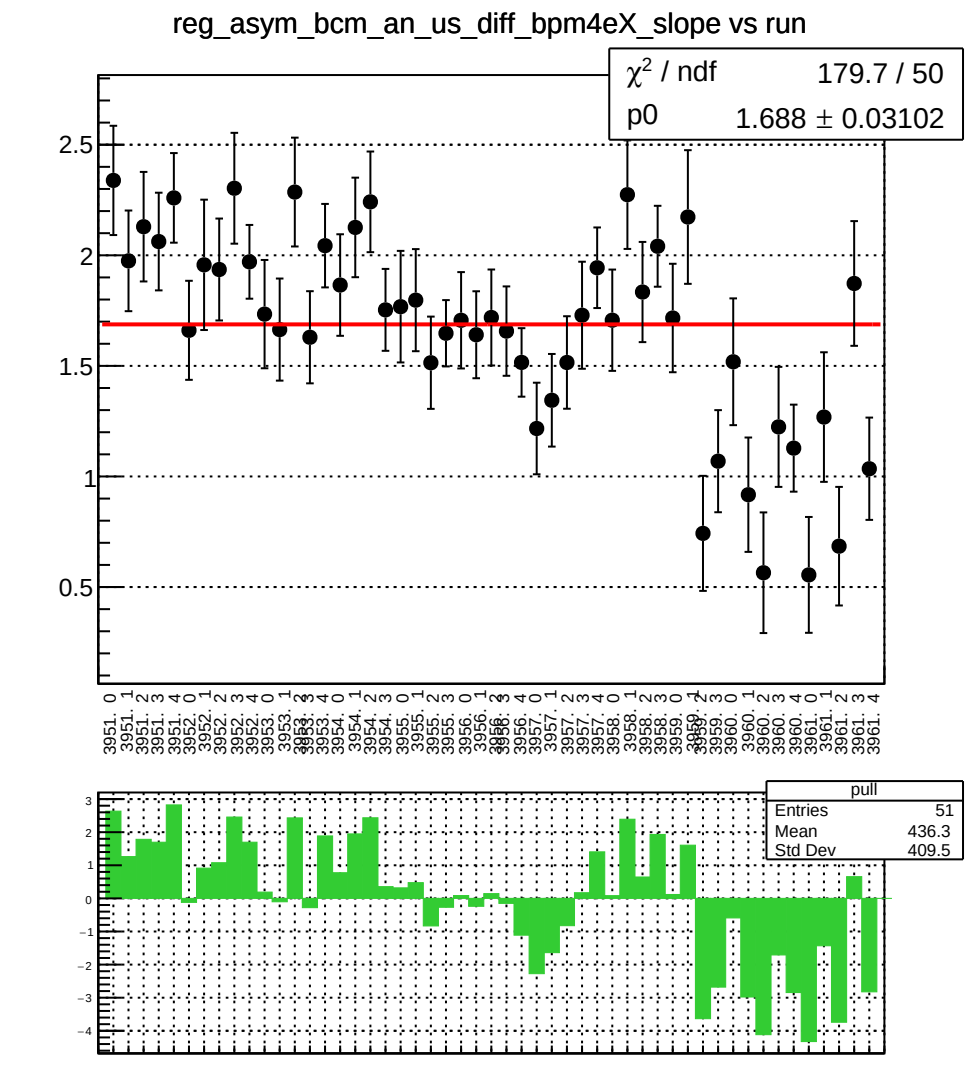

pull1D
Entries 51
Mean 0.01719
Std Dev 1.647

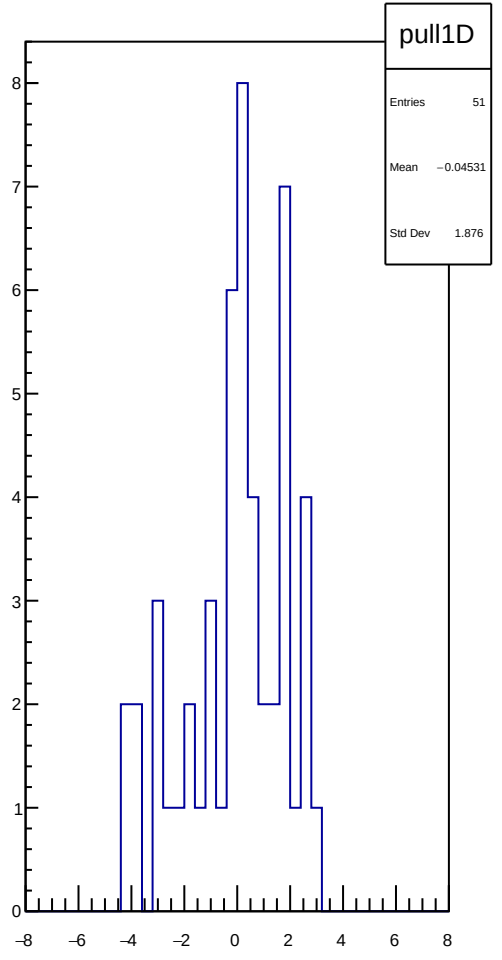

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 161.9 / 50
p0 1.834 ± 0.03204
pull
Entries 51
Mean 84.16
Std Dev 42
pull1D
Entries 51
Mean 0.1565
Std Dev 1.775

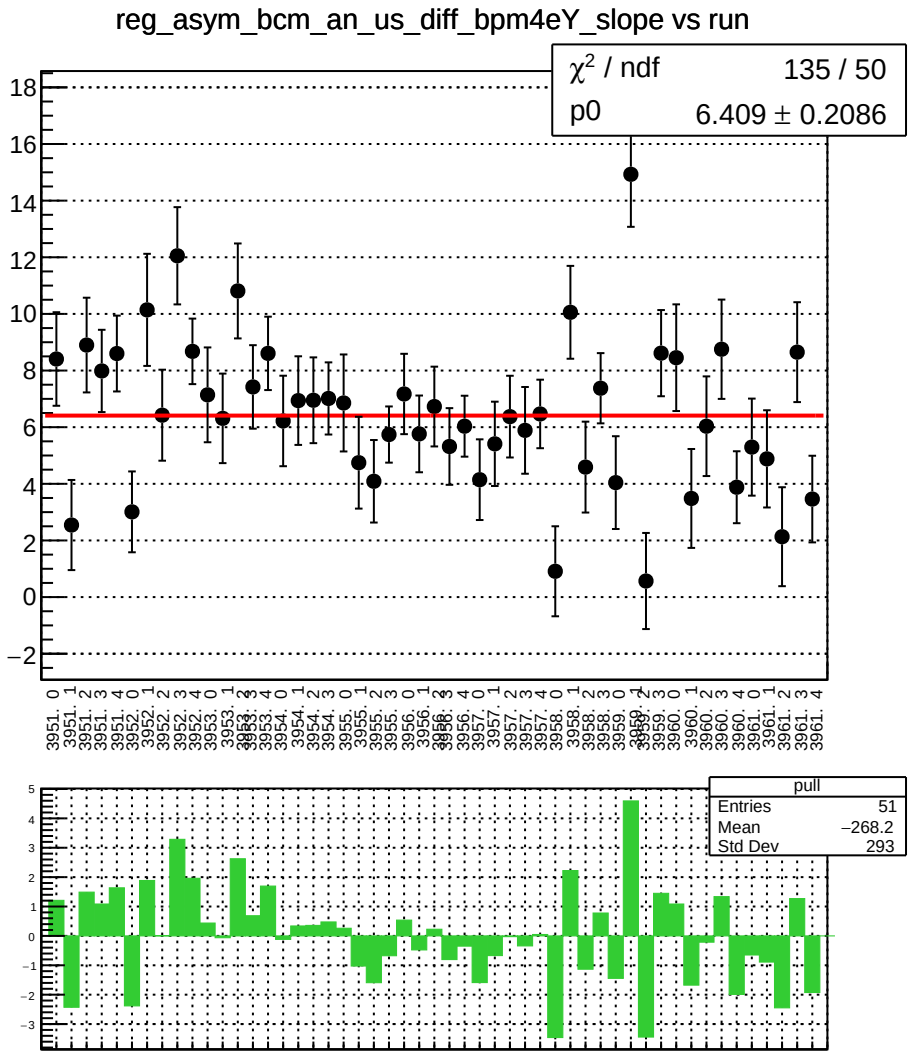

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 108.3 / 50
p0 −5.513 ± 0.1819
pull
Entries 51
Mean 847.2
Std Dev 820.4

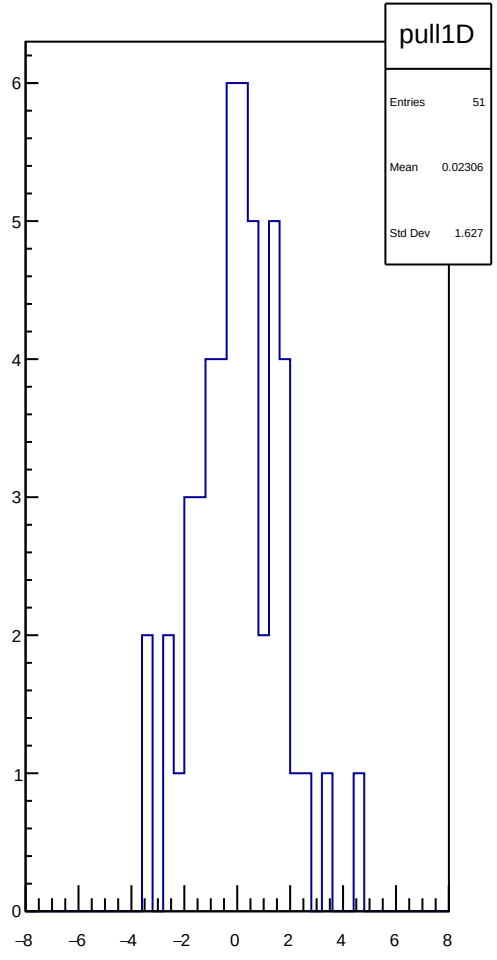

pull1D
Entries 51
Mean 0.01321
Std Dev 1.457

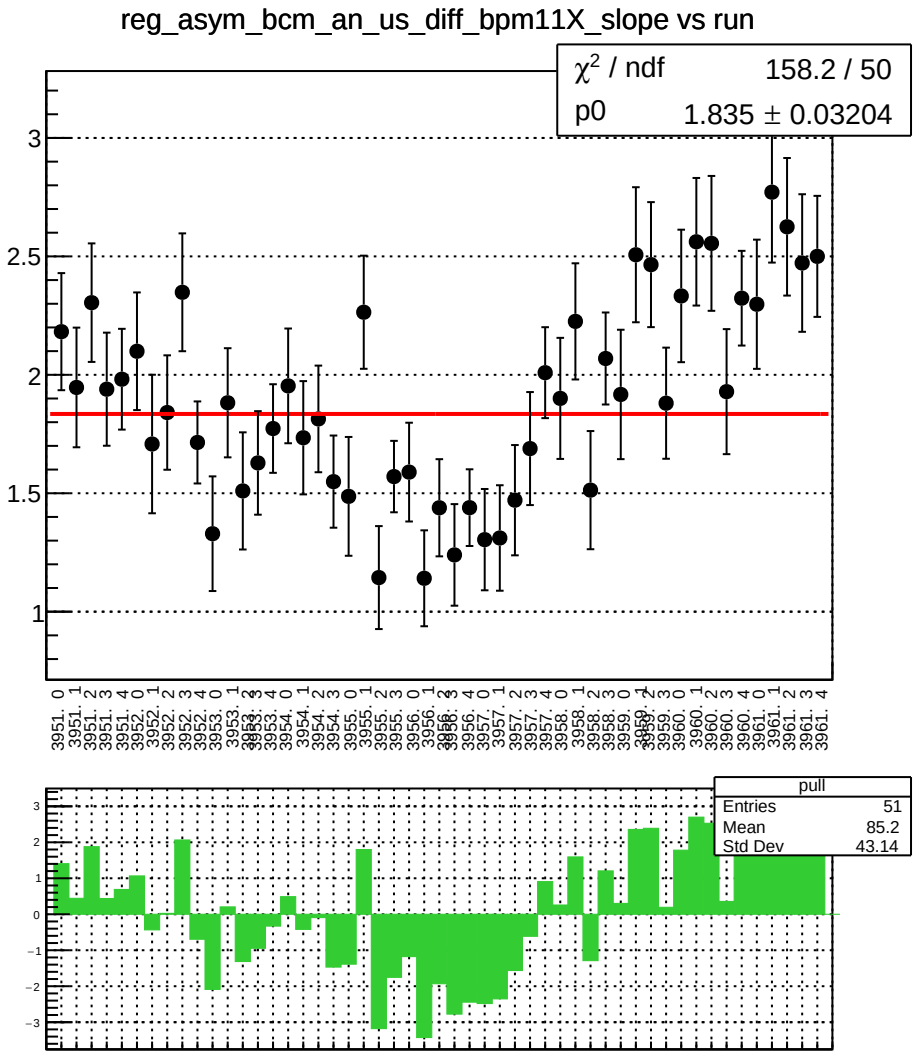

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 132.6 / 50
p0 −3.601 ± 0.1246
pull
Entries 51
Mean −203.4
Std Dev 228
pull1D
Entries 51
Mean −0.02759
Std Dev 1.612

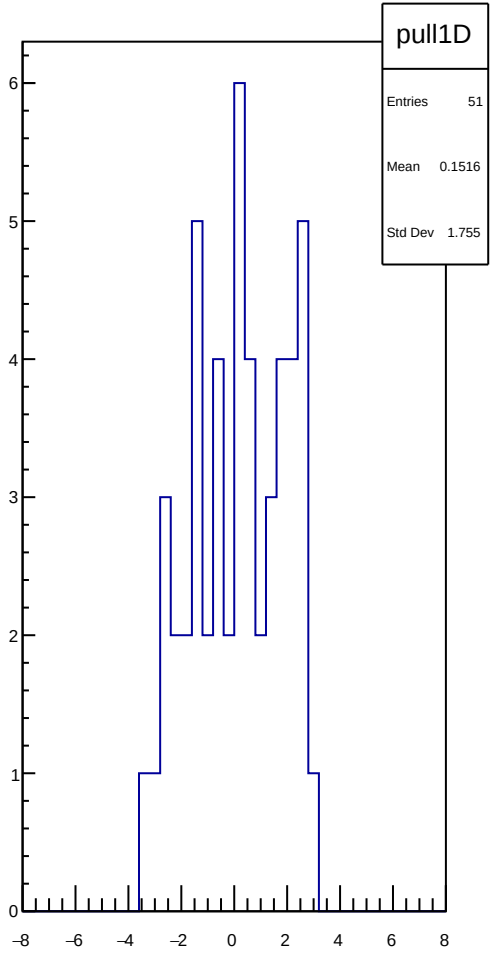

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 179.7 / 50
p0 1.688 ± 0.03102
pull
Entries 51
Mean 436.3
Std Dev 409.5

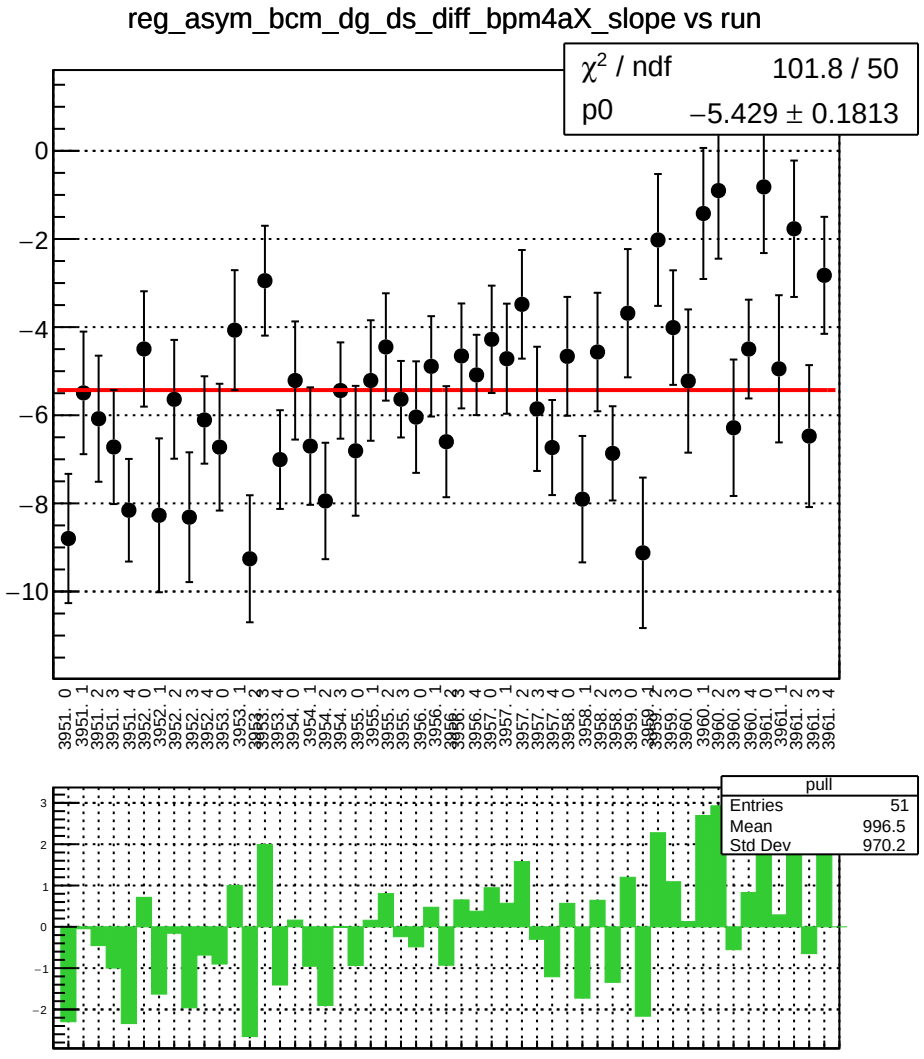

pull1D
Entries 51
Mean −0.04531
Std Dev 1.876

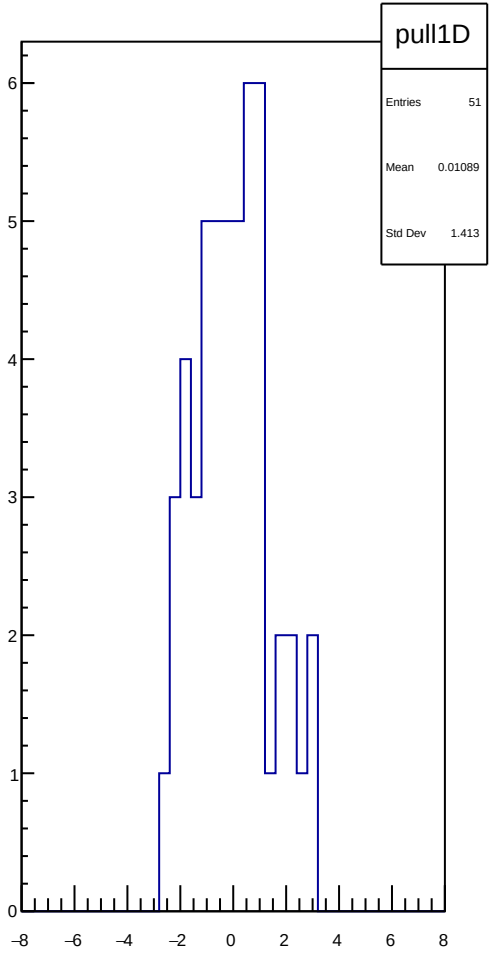

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 135 / 50
p0 6.409 ± 0.2086
pull
Entries 51
Mean −268.2
Std Dev 293

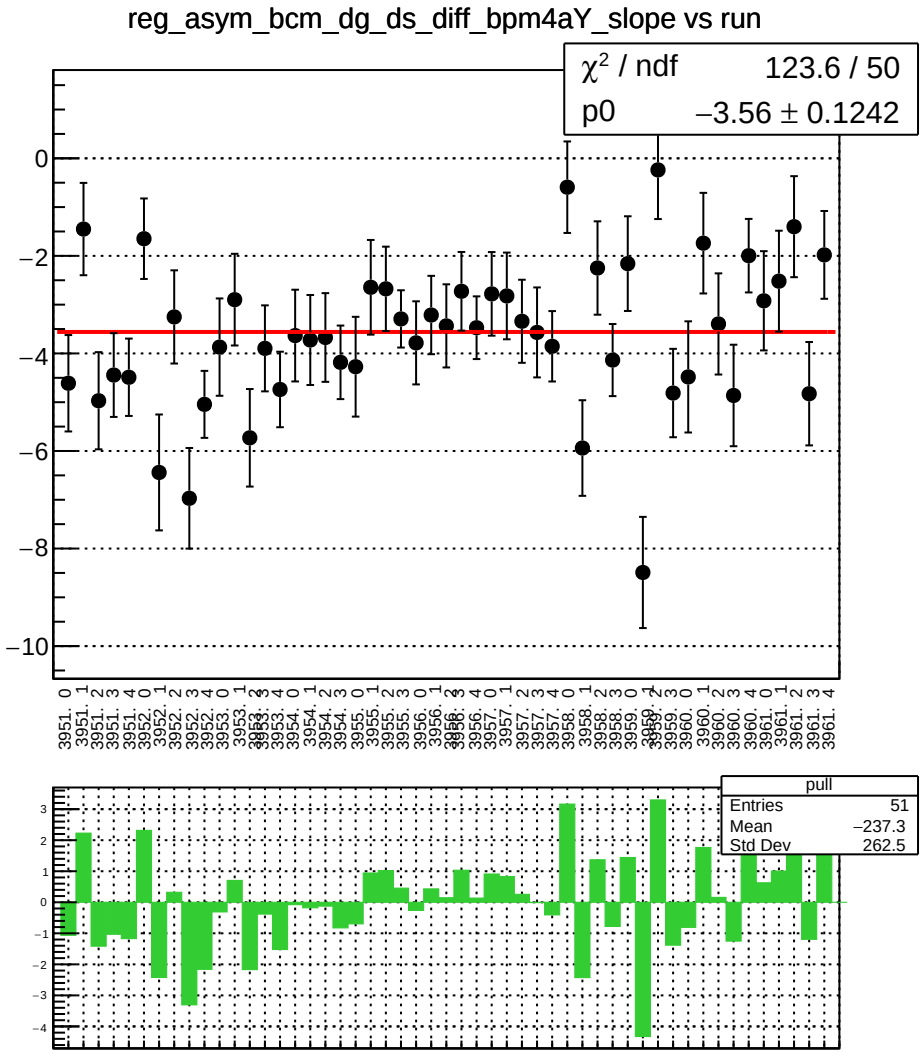

pull1D
Entries 51
Mean 0.02306
Std Dev 1.627

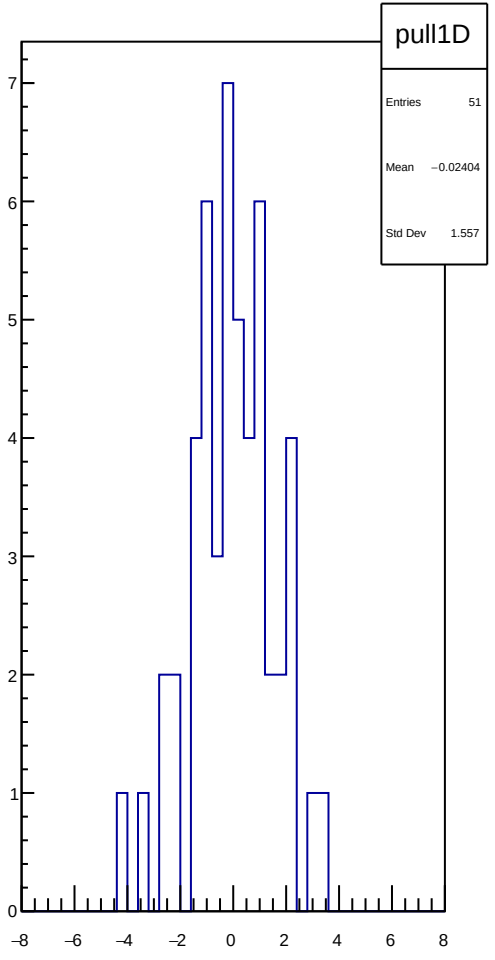

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 158.2 / 50
p0 1.835 ± 0.03204
pull
Entries 51
Mean 85.2
Std Dev 43.14

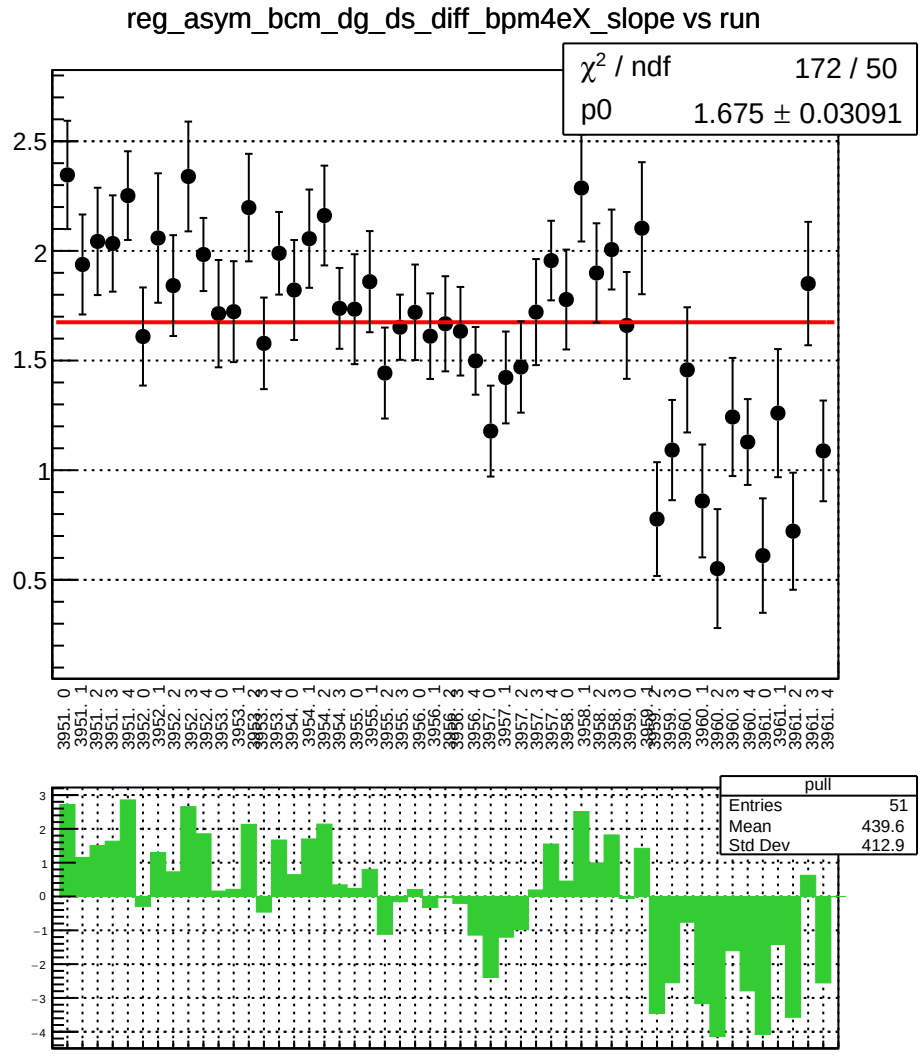

pull1D
Entries 51
Mean 0.1516
Std Dev 1.755

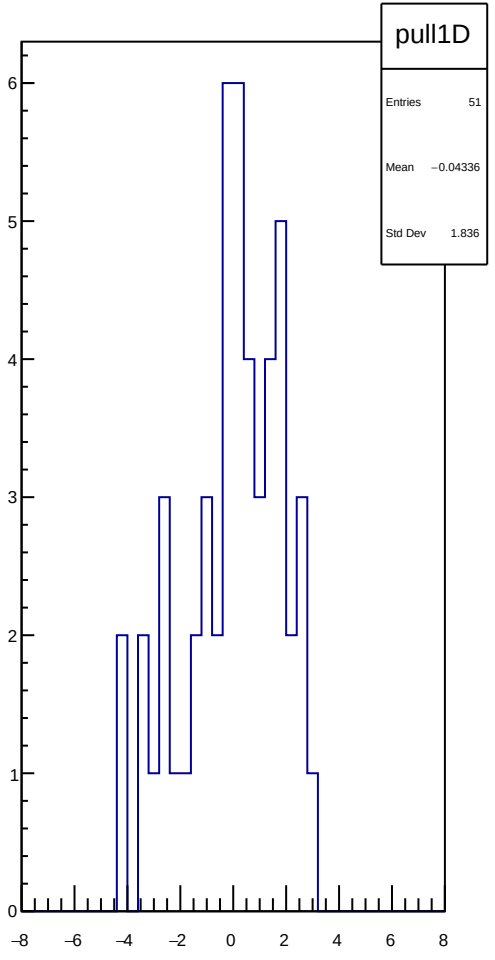

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 101.8 / 50
p0 −5.429 ± 0.1813
pull
Entries 51
Mean 996.5
Std Dev 970.2

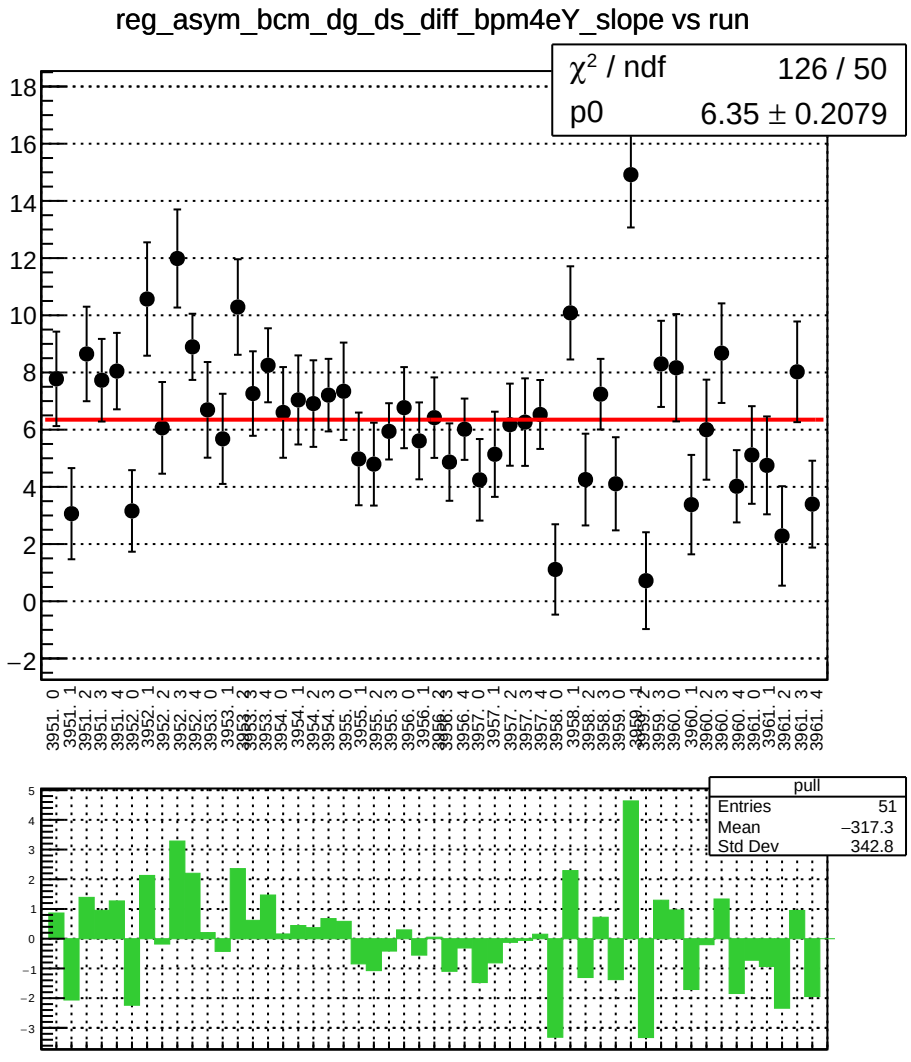

pull1D
Entries 51
Mean 0.01089
Std Dev 1.413

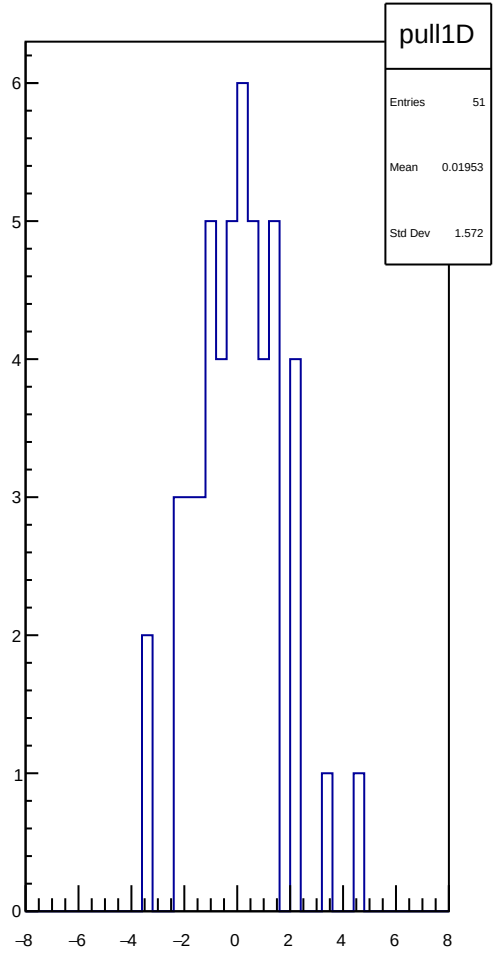

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 123.6 / 50
p0 −3.56 ± 0.1242
pull
Entries 51
Mean −237.3
Std Dev 262.5

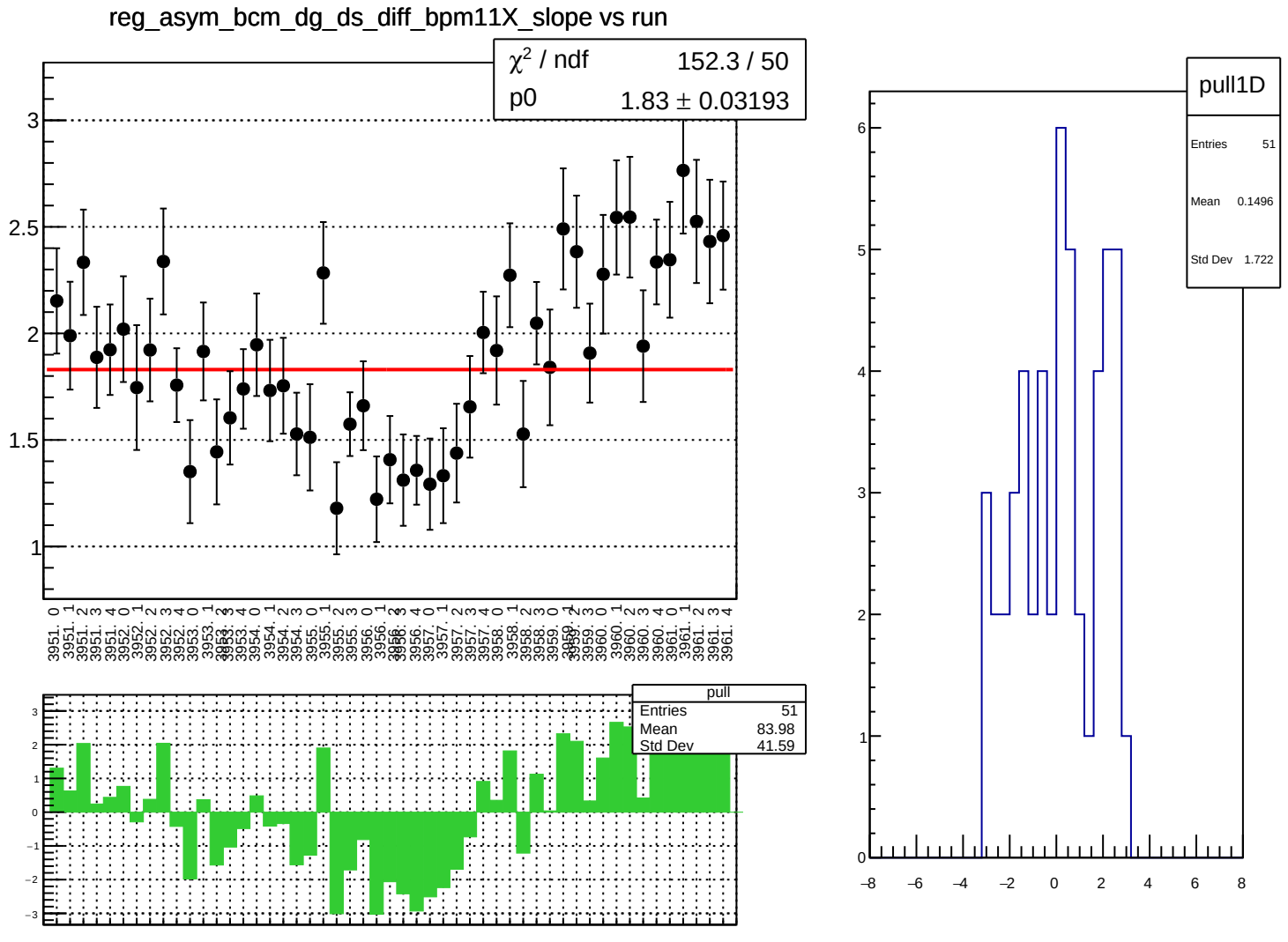

pull1D
Entries 51
Mean −0.02404
Std Dev 1.557

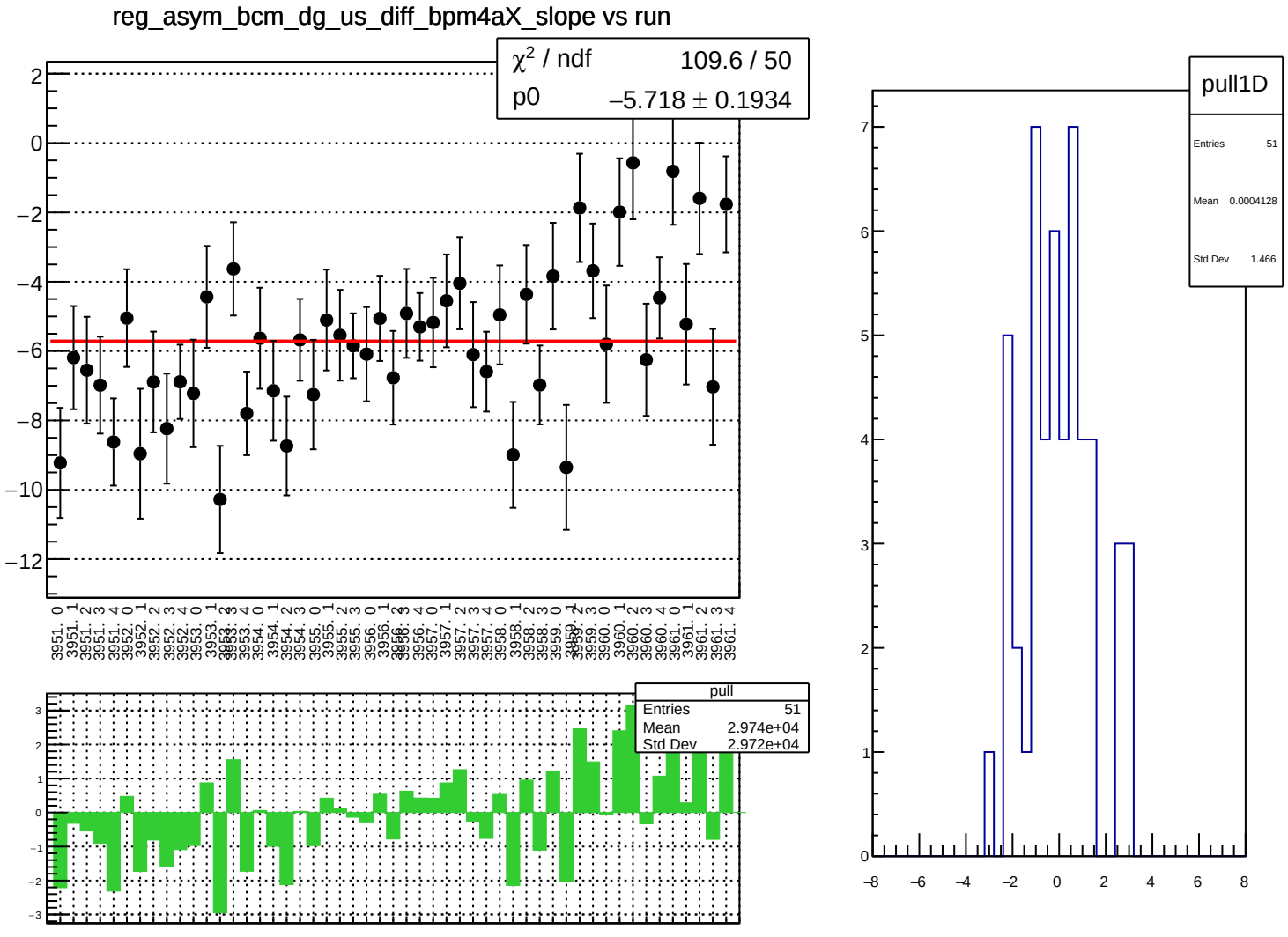

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 172 / 50
p0 1.675 ± 0.03091
pull
Entries 51
Mean 439.6
Std Dev 412.9

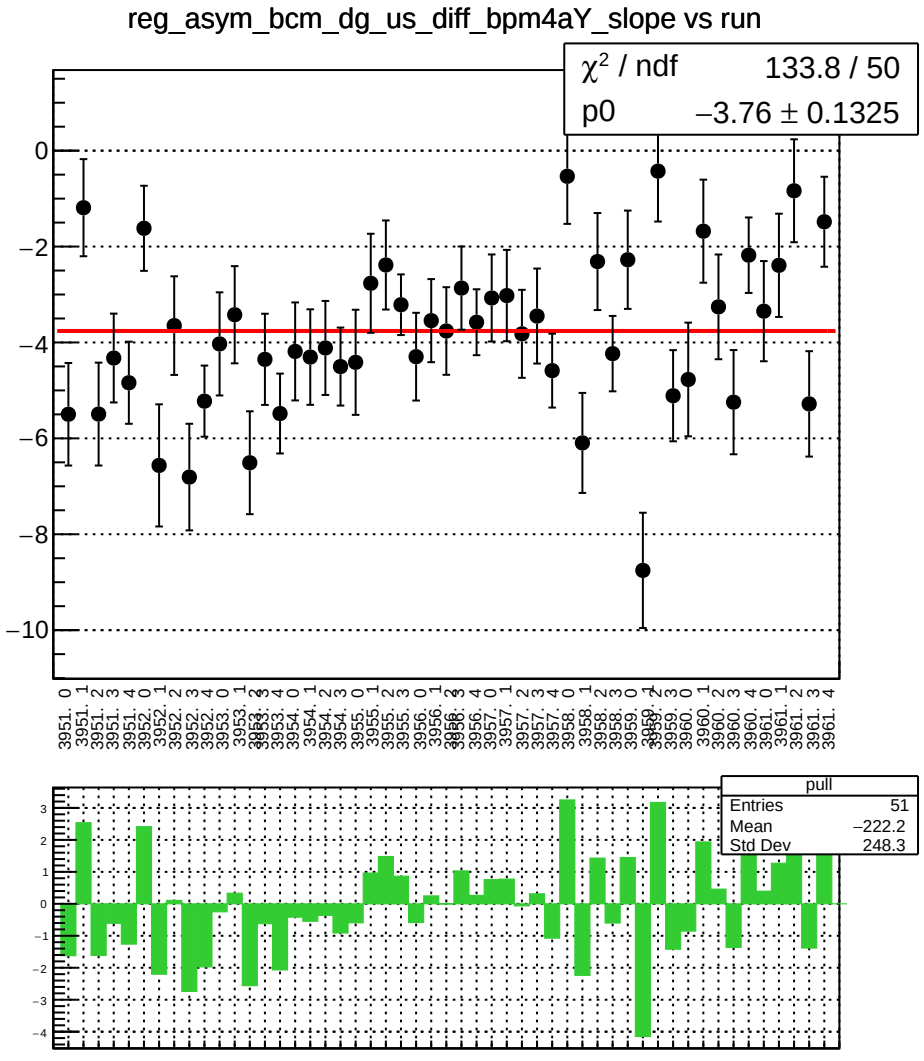

pull1D
Entries 51
Mean −0.04336
Std Dev 1.836

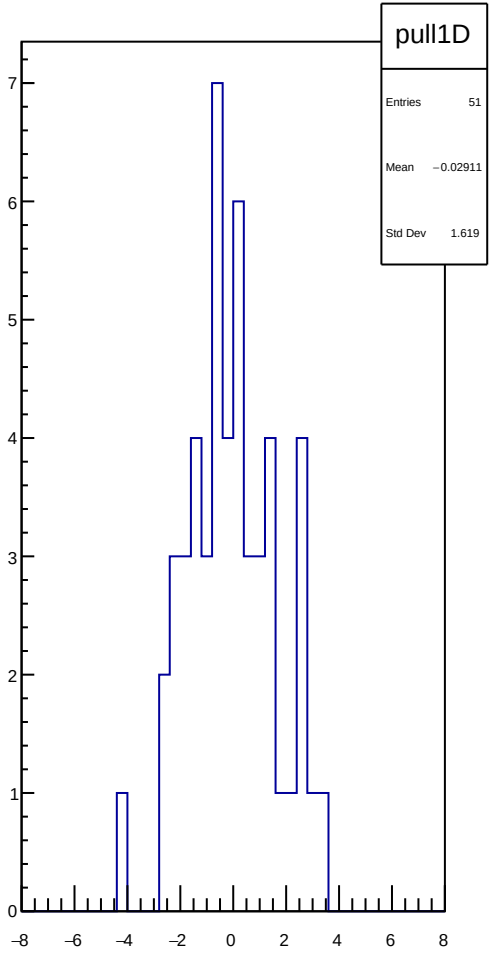

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 126 / 50
p0 6.35 ± 0.2079
pull
Entries 51
Mean −317.3
Std Dev 342.8

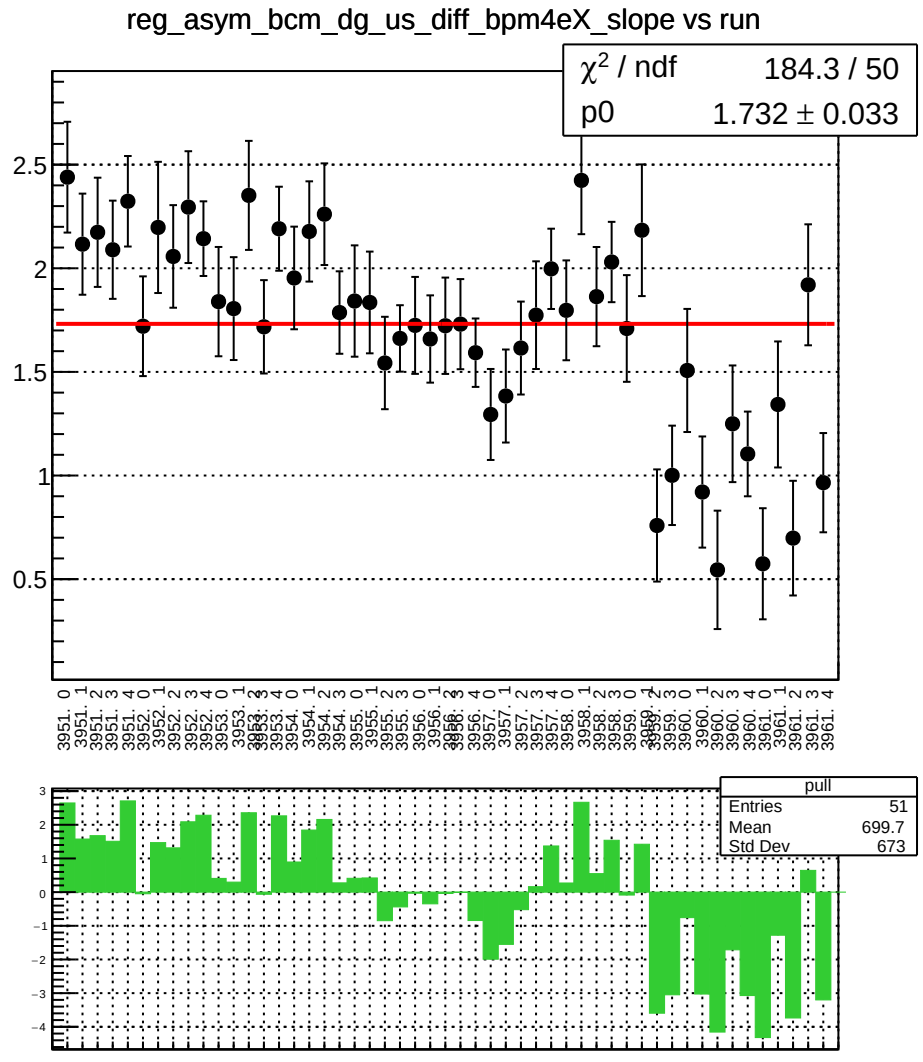

pull1D
Entries 51
Mean 0.01953
Std Dev 1.572

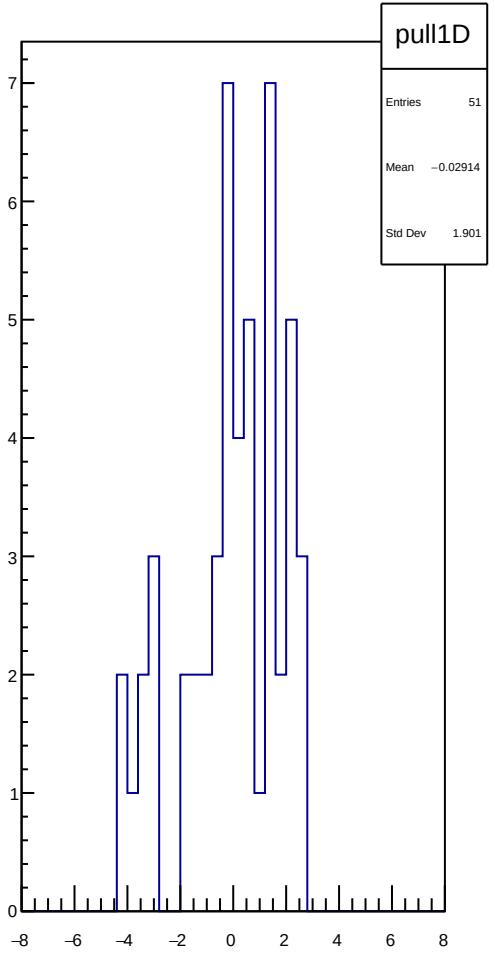

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 152.3 / 50
p0 1.83 ± 0.03193
pull
Entries 51
Mean 83.98
Std Dev 41.59
pull1D
Entries 51
Mean 0.1496
Std Dev 1.722

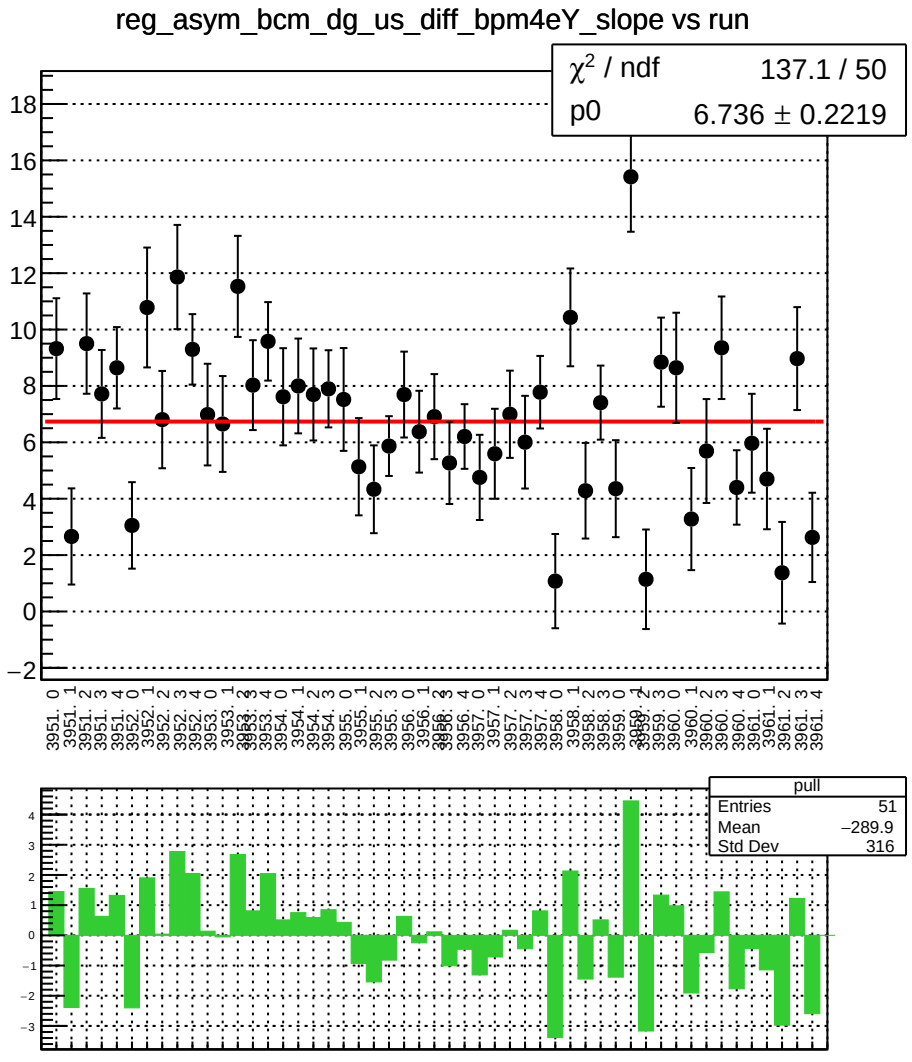

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 109.6 / 50
p0 −5.718 ± 0.1934
pull
Entries 51
Mean 2.974e+04
Std Dev 2.972e+04
pull1D
Entries 51
Mean 0.0004128
Std Dev 1.466

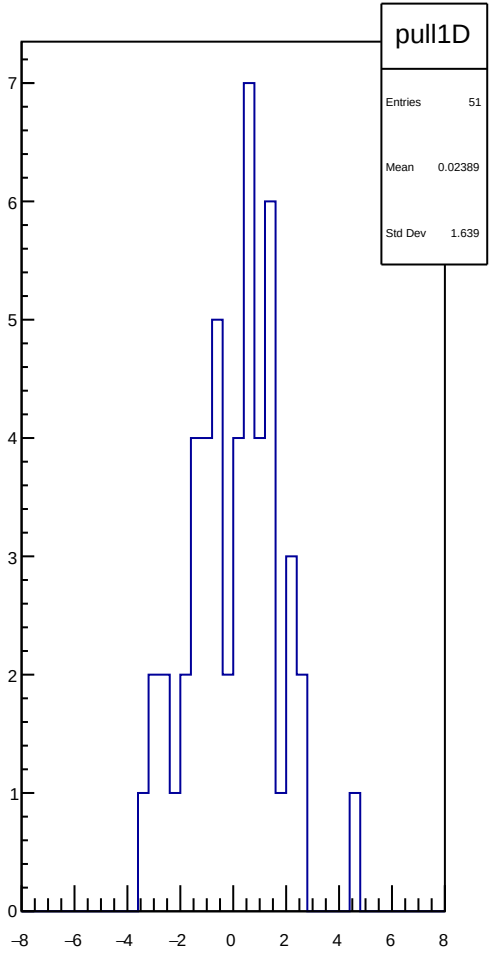

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 133.8 / 50
p0 −3.76 ± 0.1325
pull
Entries 51
Mean −222.2
Std Dev 248.3

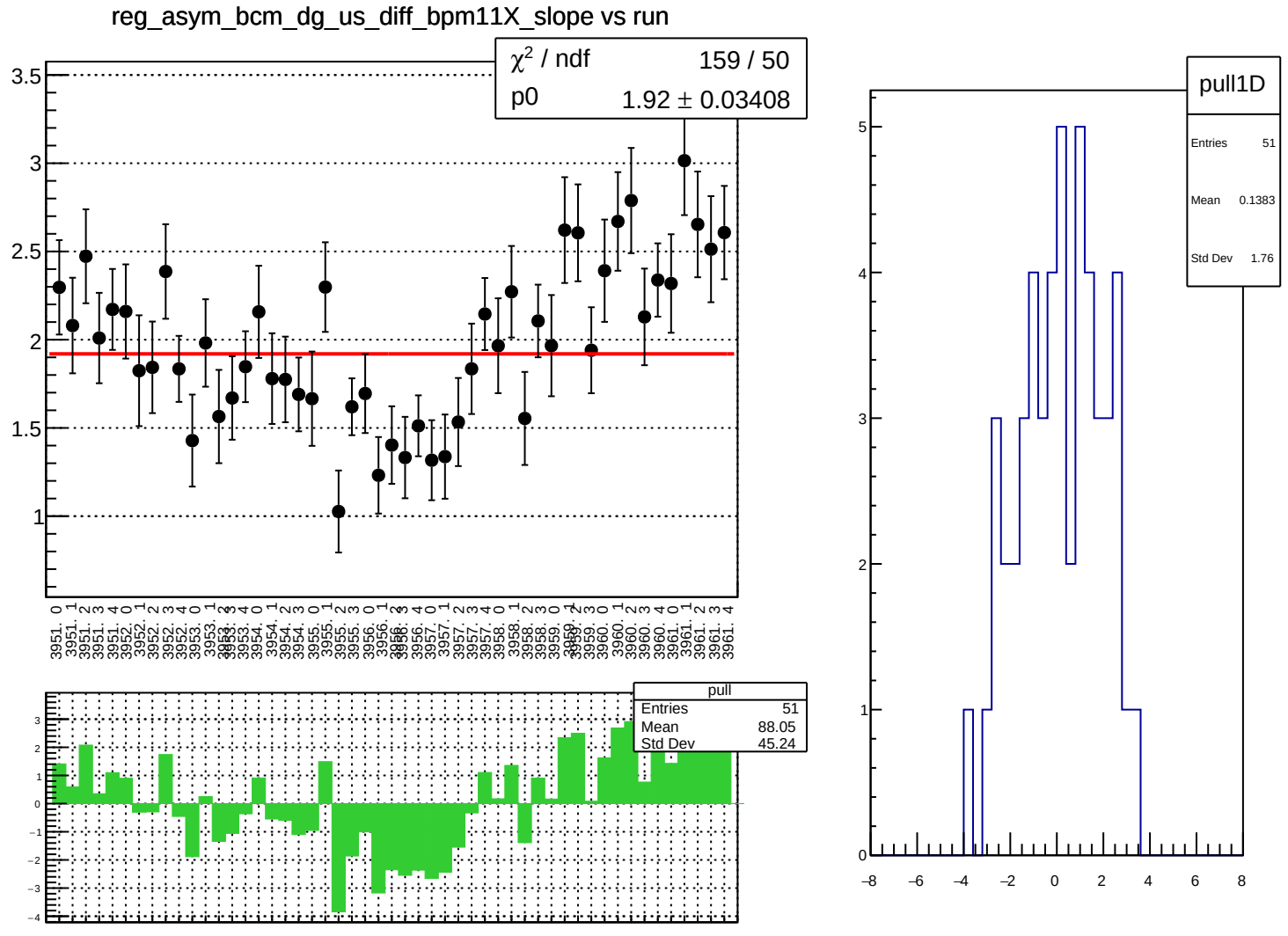

pull1D
Entries 51
Mean −0.02911
Std Dev 1.619

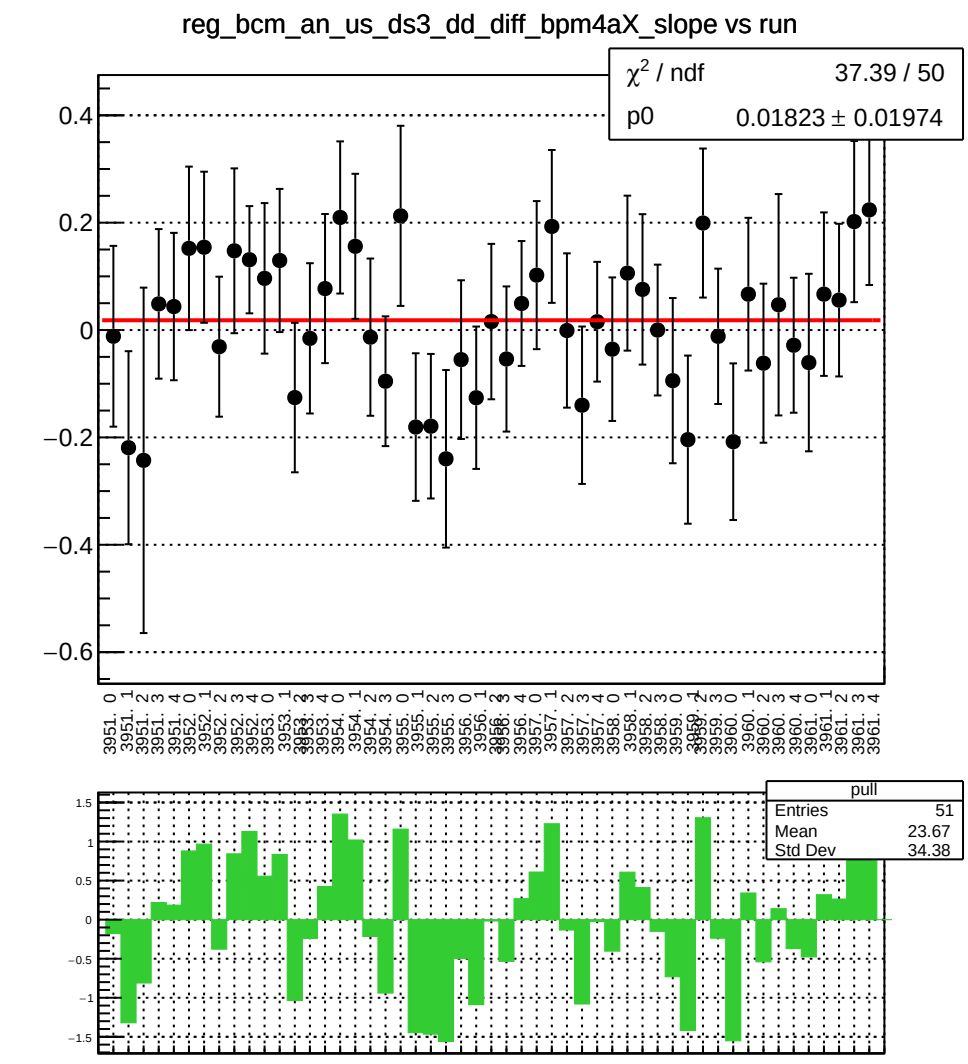

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 184.3 / 50
p0 1.732 ± 0.033
pull
Entries 51
Mean 699.7
Std Dev 673

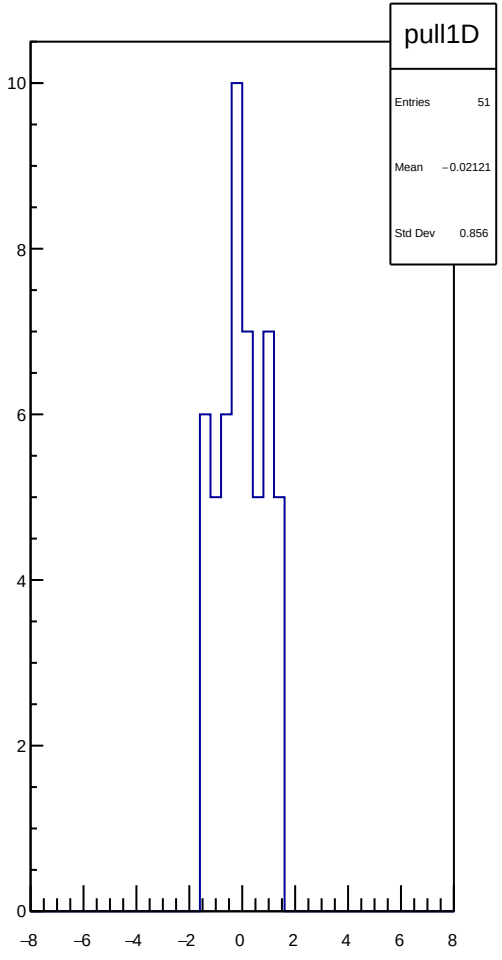

pull1D
Entries 51
Mean −0.02914
Std Dev 1.901

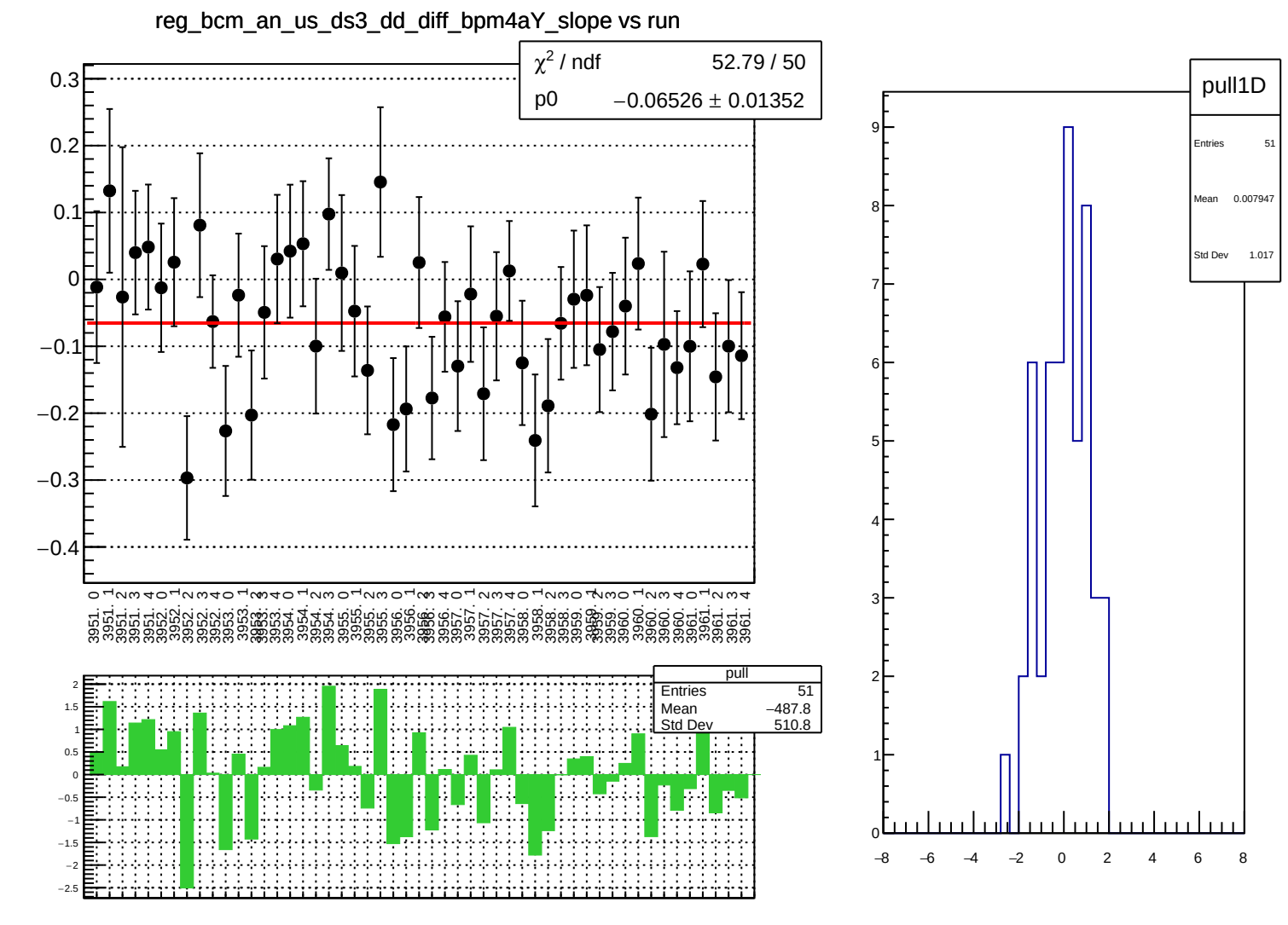

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 137.1 / 50
p0 6.736 ± 0.2219
pull
Entries 51
Mean −289.9
Std Dev 316

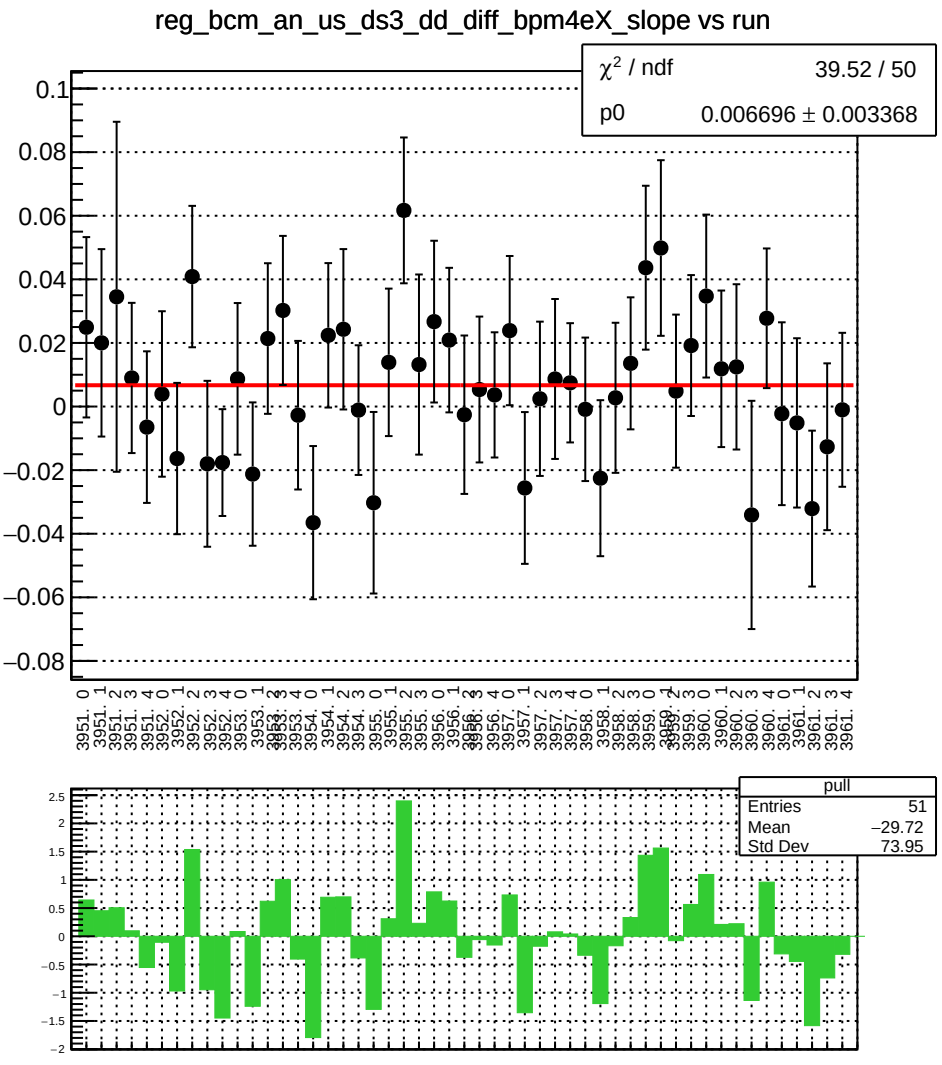

pull1D
Entries 51
Mean 0.02389
Std Dev 1.639

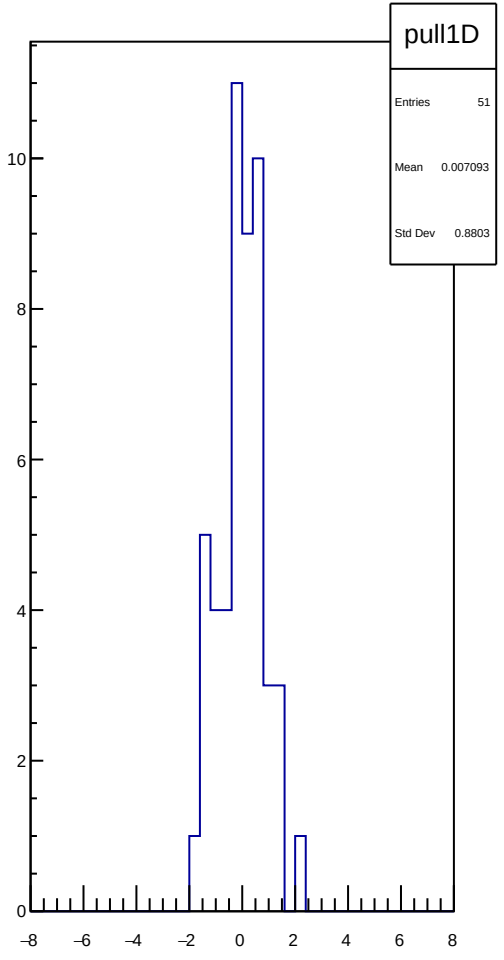

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 159 / 50
p0 1.92 ± 0.03408
pull
Entries 51
Mean 88.05
Std Dev 45.24
pull1D
Entries 51
Mean 0.1383
Std Dev 1.76

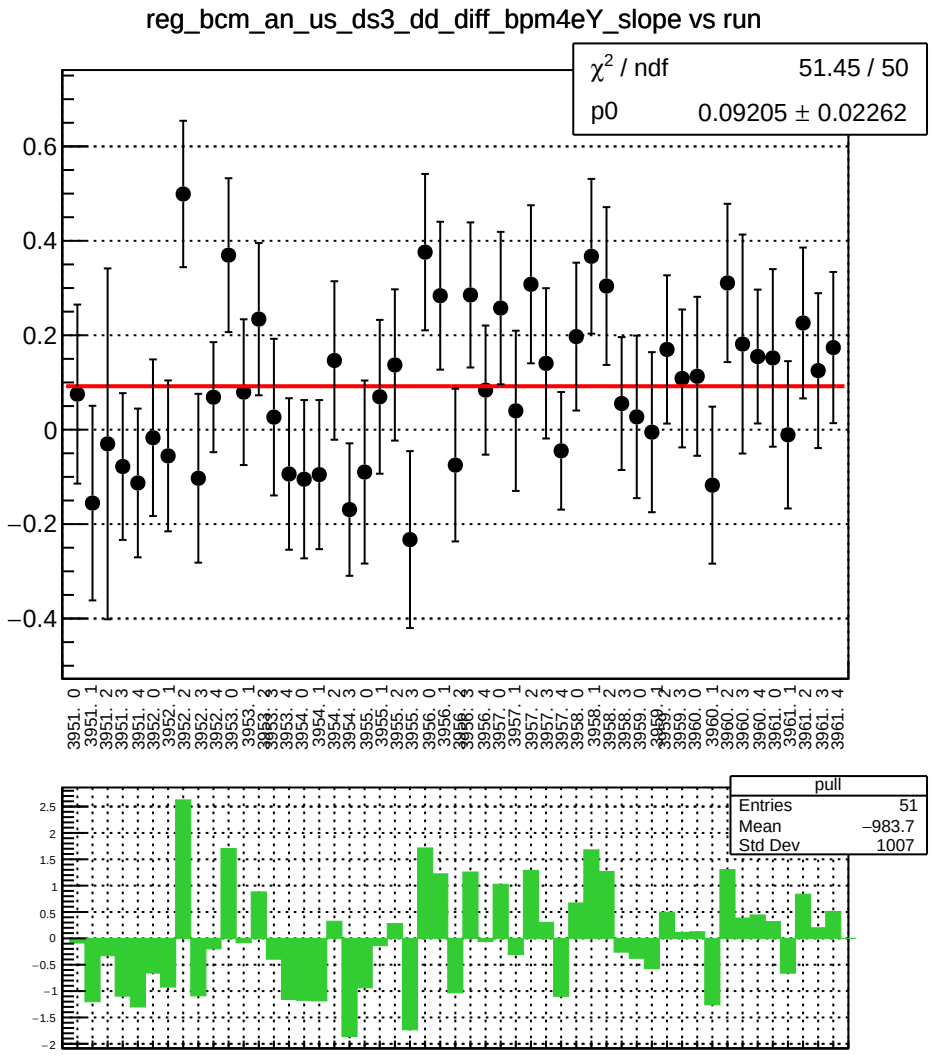

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.39 / 50
p0 0.01823 ± 0.01974
pull
Entries 51
Mean 23.67
Std Dev 34.38

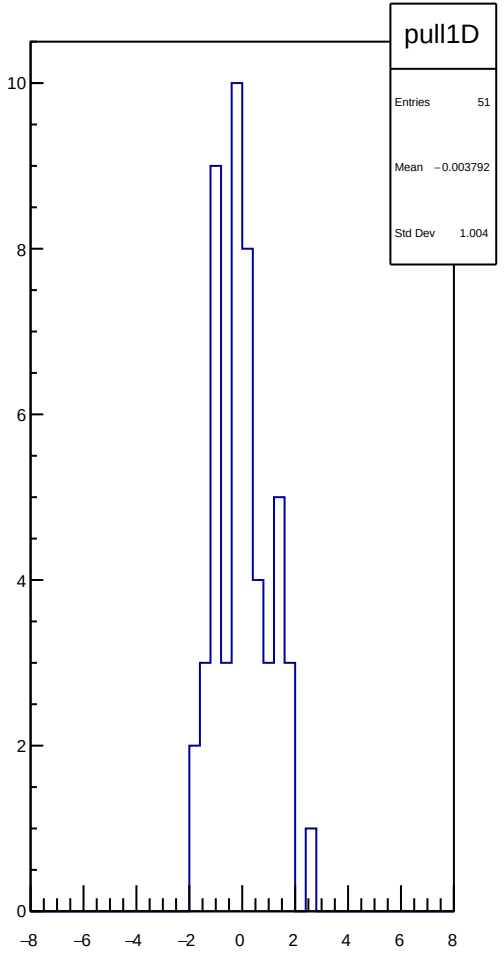

pull1D
Entries 51
Mean −0.02121
Std Dev 0.856

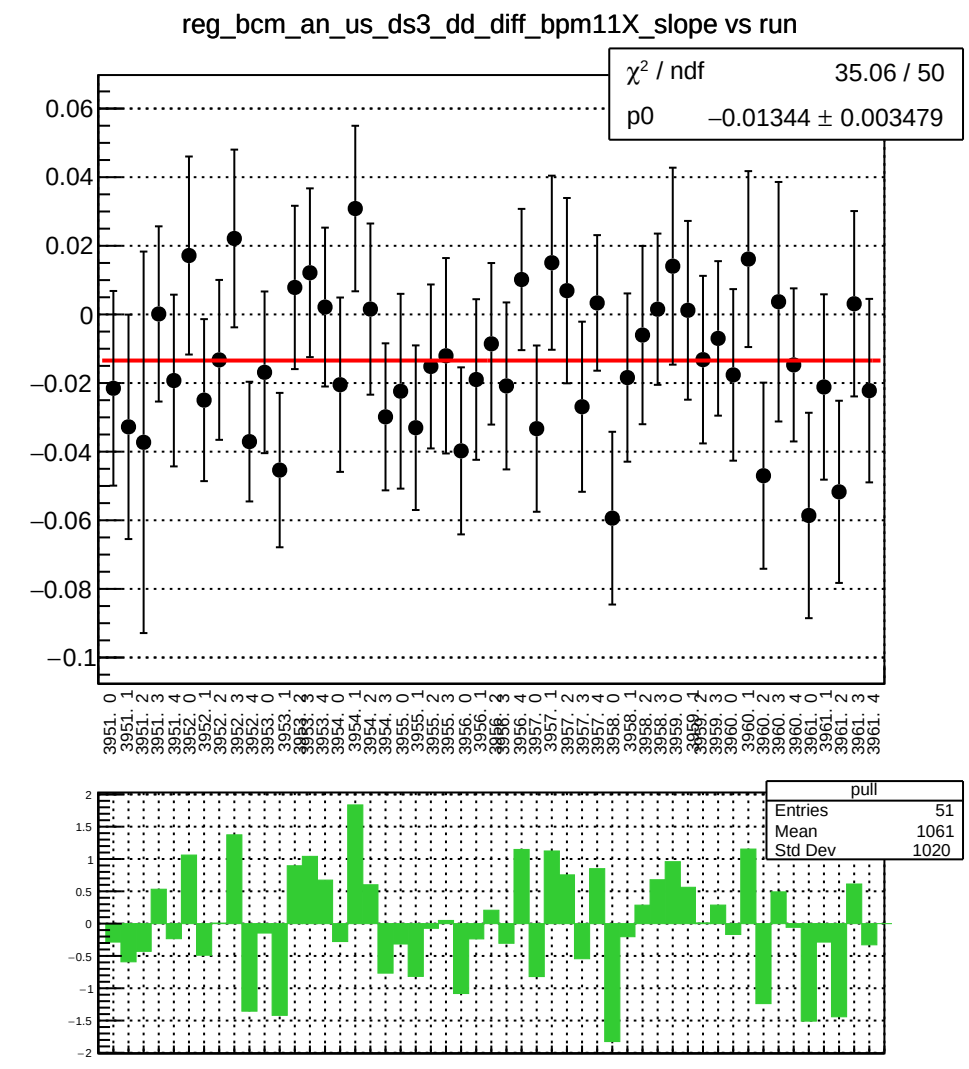

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.79 / 50
p0 −0.06526 ± 0.01352
pull
Entries 51
Mean −487.8
Std Dev 510.8
pull1D
Entries 51
Mean 0.007947
Std Dev 1.017

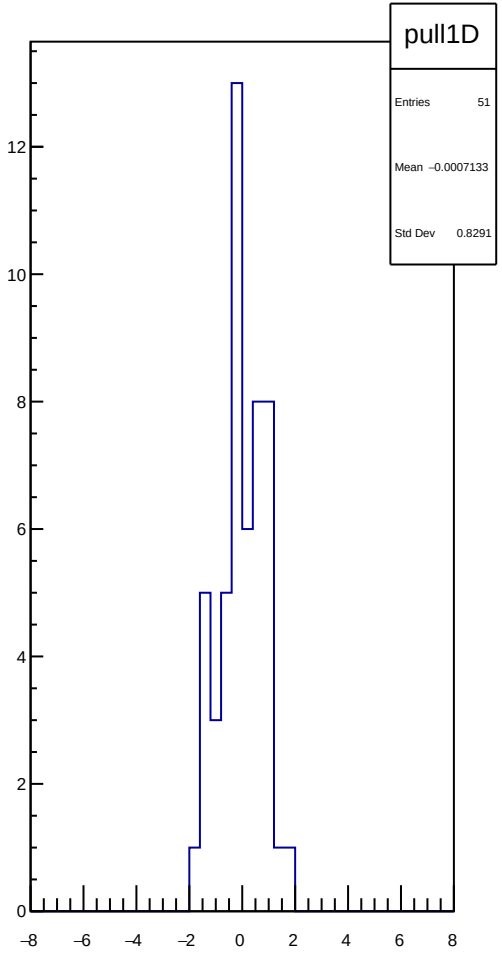

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.52 / 50
p0 0.006696 ± 0.003368
pull
Entries 51
Mean −29.72
Std Dev 73.95

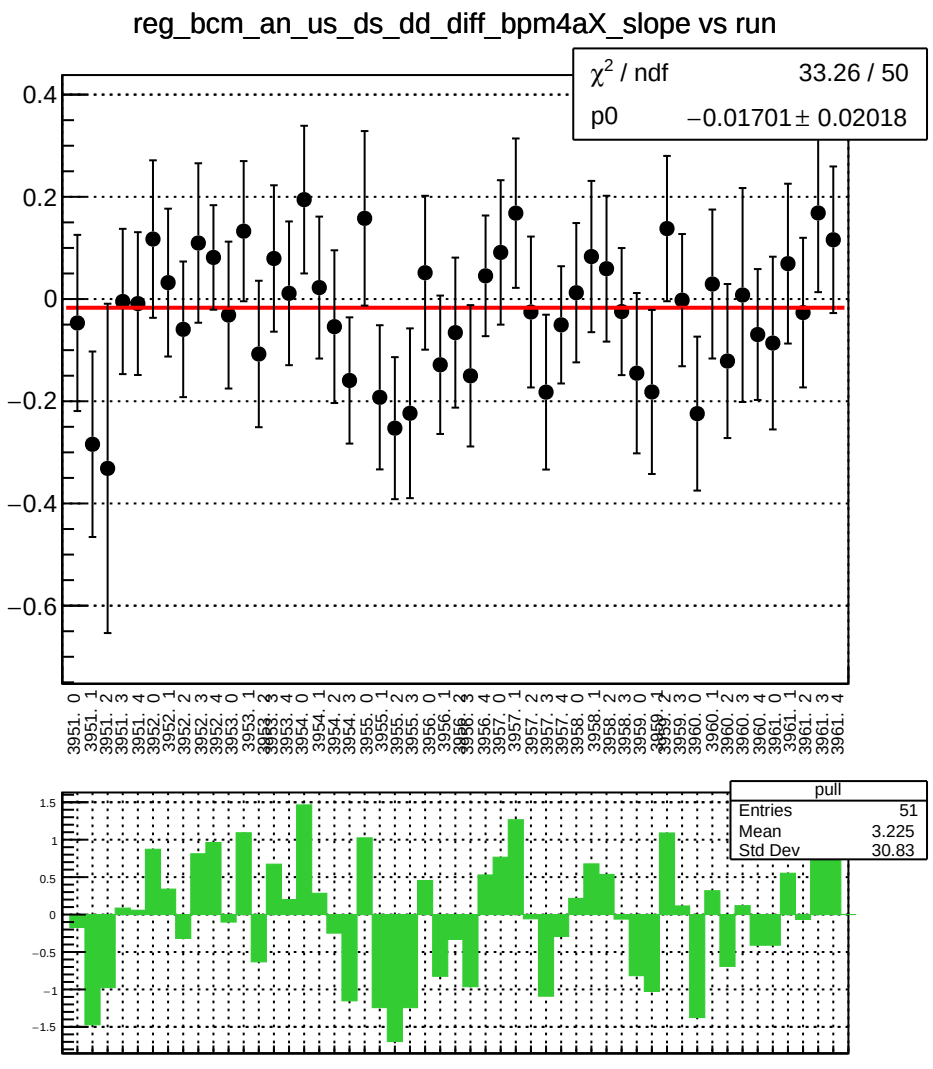

pull1D
Entries 51
Mean 0.007093
Std Dev 0.8803

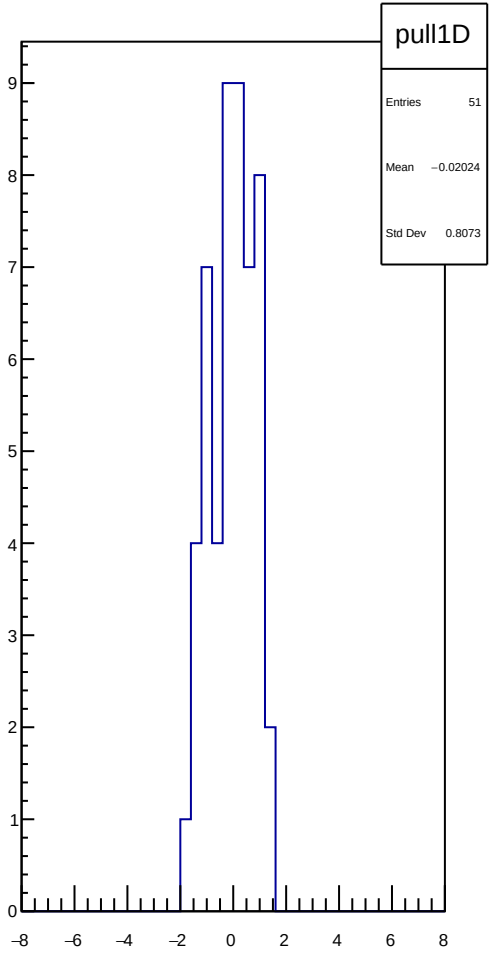

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.45 / 50
p0 0.09205 ± 0.02262
pull
Entries 51
Mean −983.7
Std Dev 1007

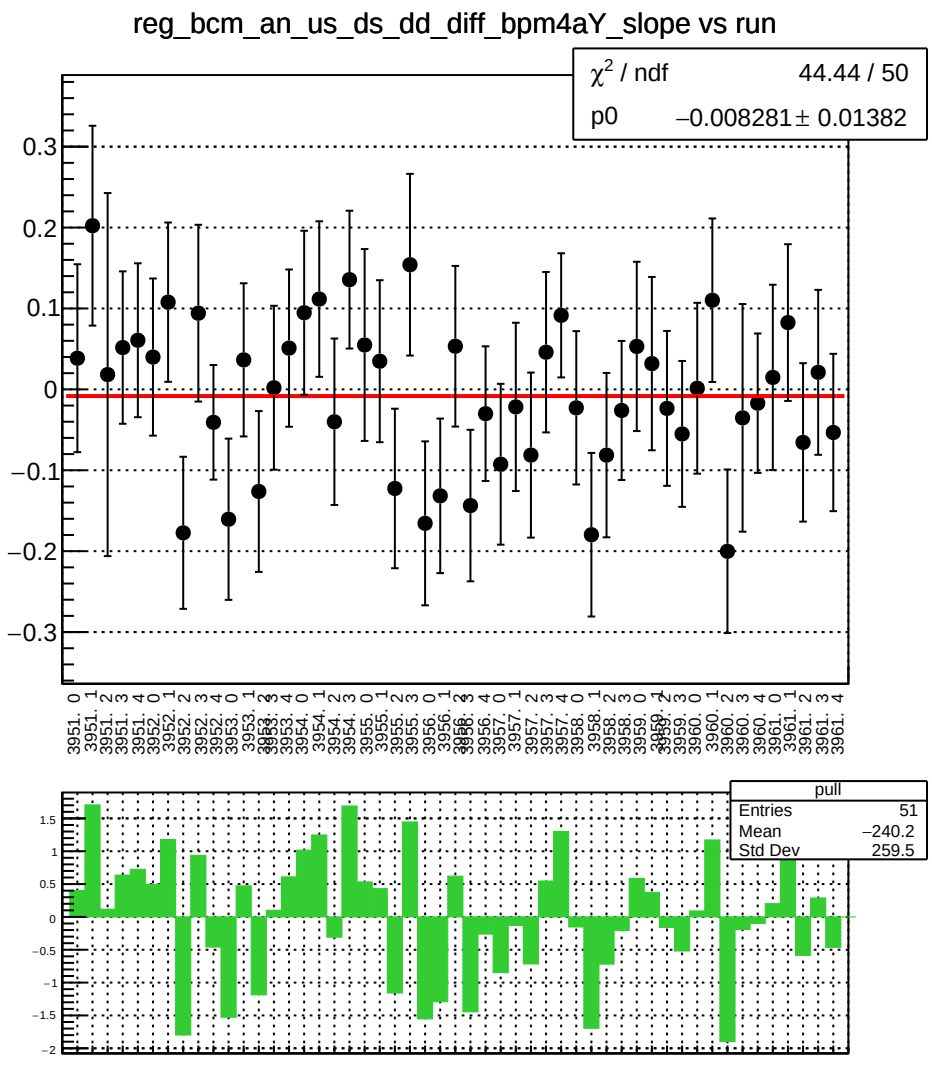

pull1D
Entries 51
Mean −0.003792
Std Dev 1.004

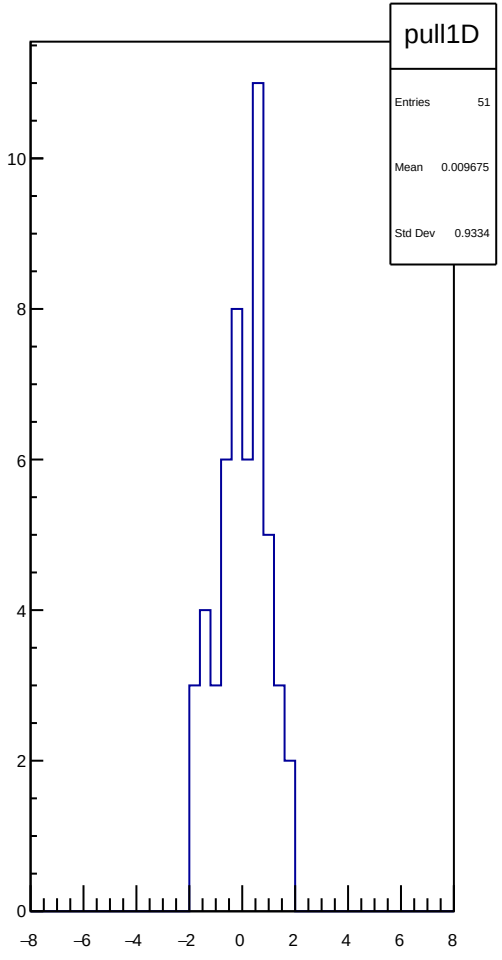

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 35.06 / 50
p0 −0.01344 ± 0.003479
pull
Entries 51
Mean 1061
Std Dev 1020

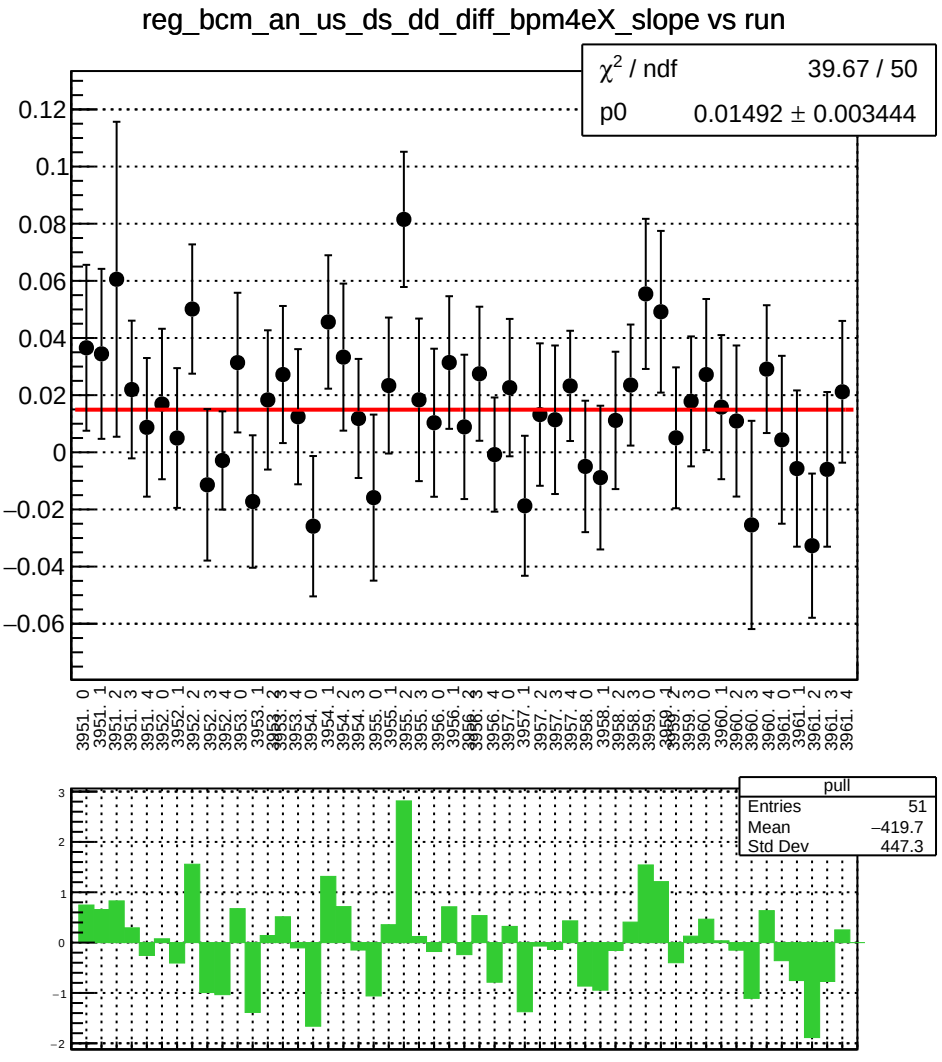

pull1D
Entries 51
Mean −0.0007133
Std Dev 0.8291

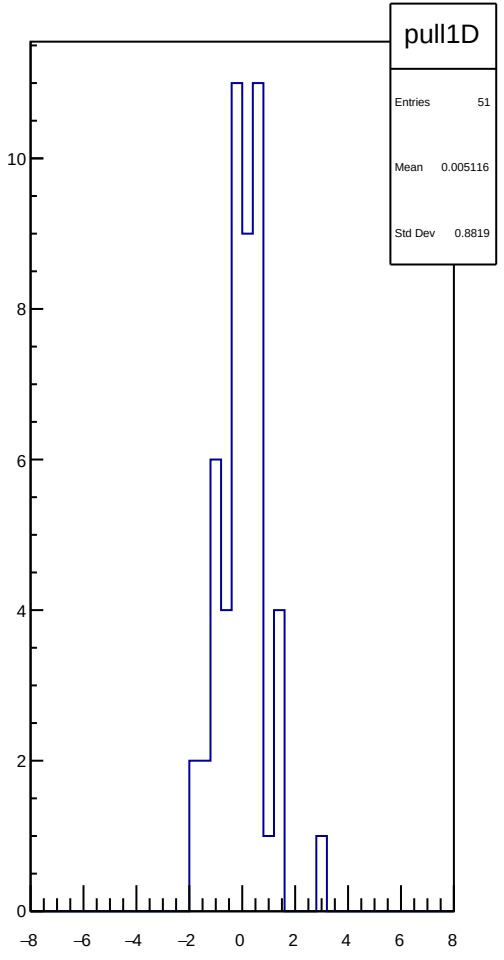

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 33.26 / 50
p0 −0.01701 ± 0.02018
pull
Entries 51
Mean 3.225
Std Dev 30.83

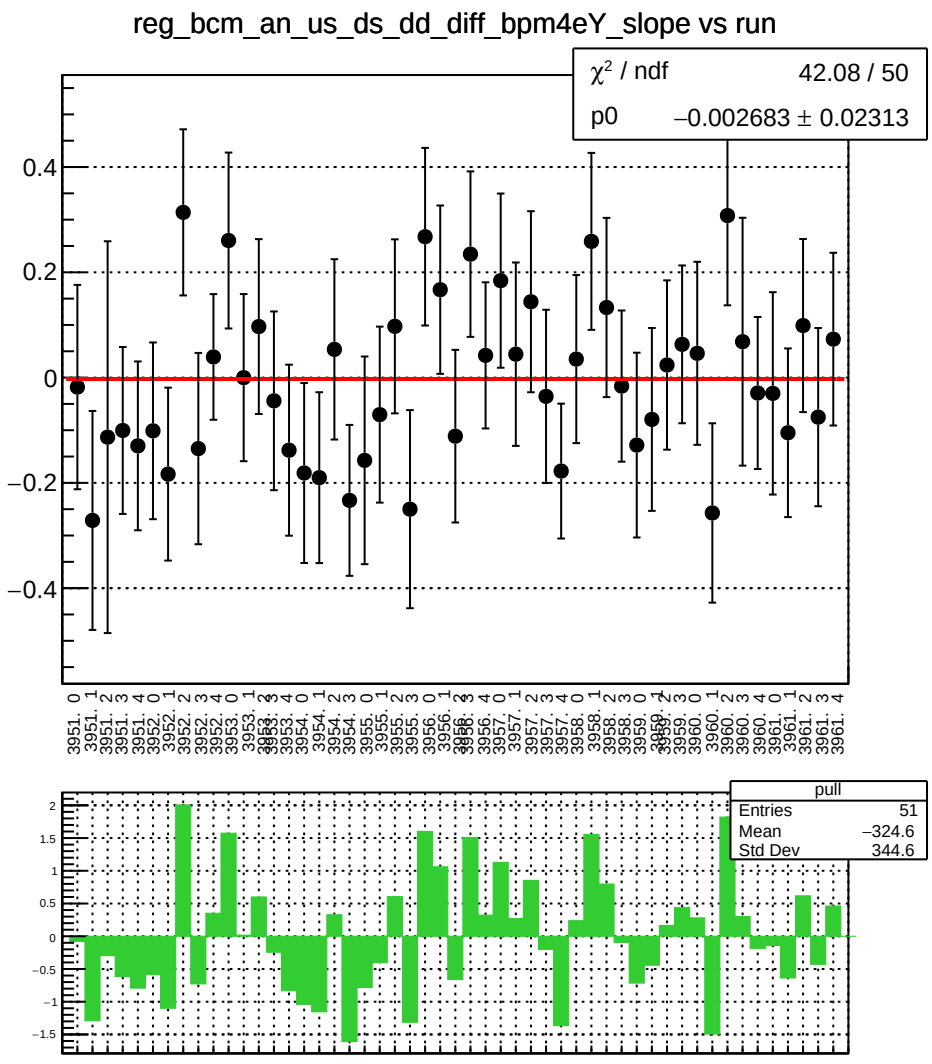

pull1D
Entries 51
Mean −0.02024
Std Dev 0.8073

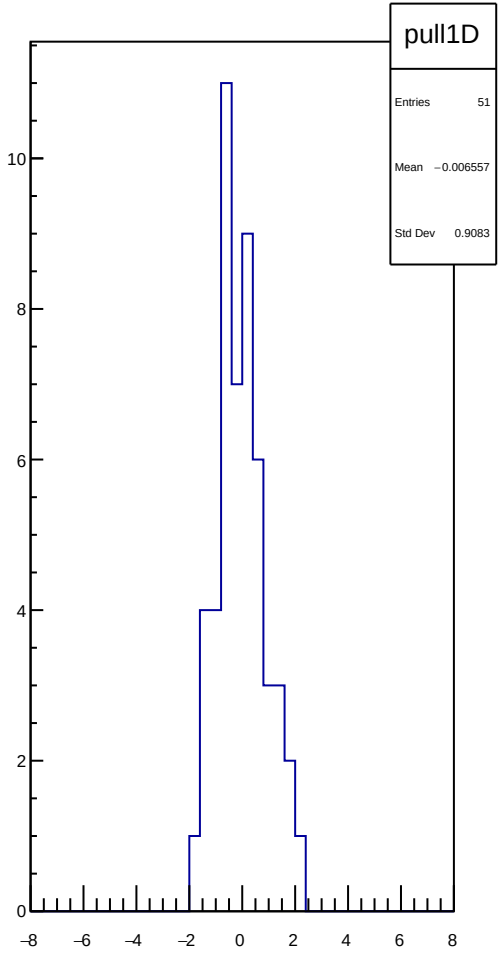

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.44 / 50
p0 −0.008281 ± 0.01382
pull
Entries 51
Mean −240.2
Std Dev 259.5

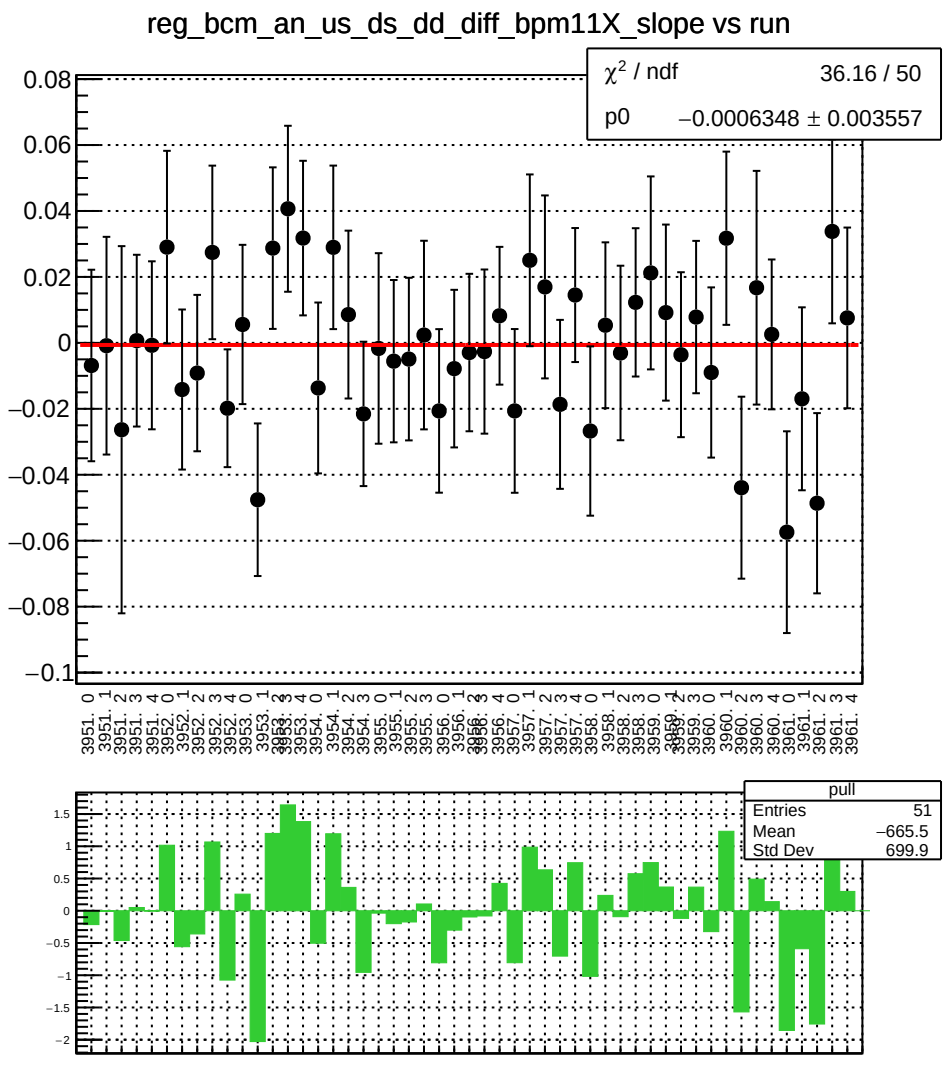

pull1D
Entries 51
Mean 0.009675
Std Dev 0.9334

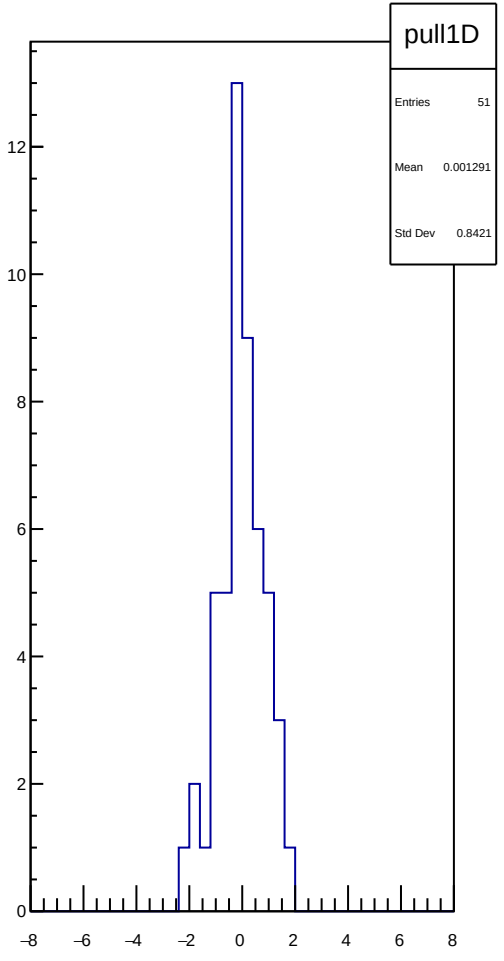

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.67 / 50
p0 0.01492 ± 0.003444
pull
Entries 51
Mean −419.7
Std Dev 447.3

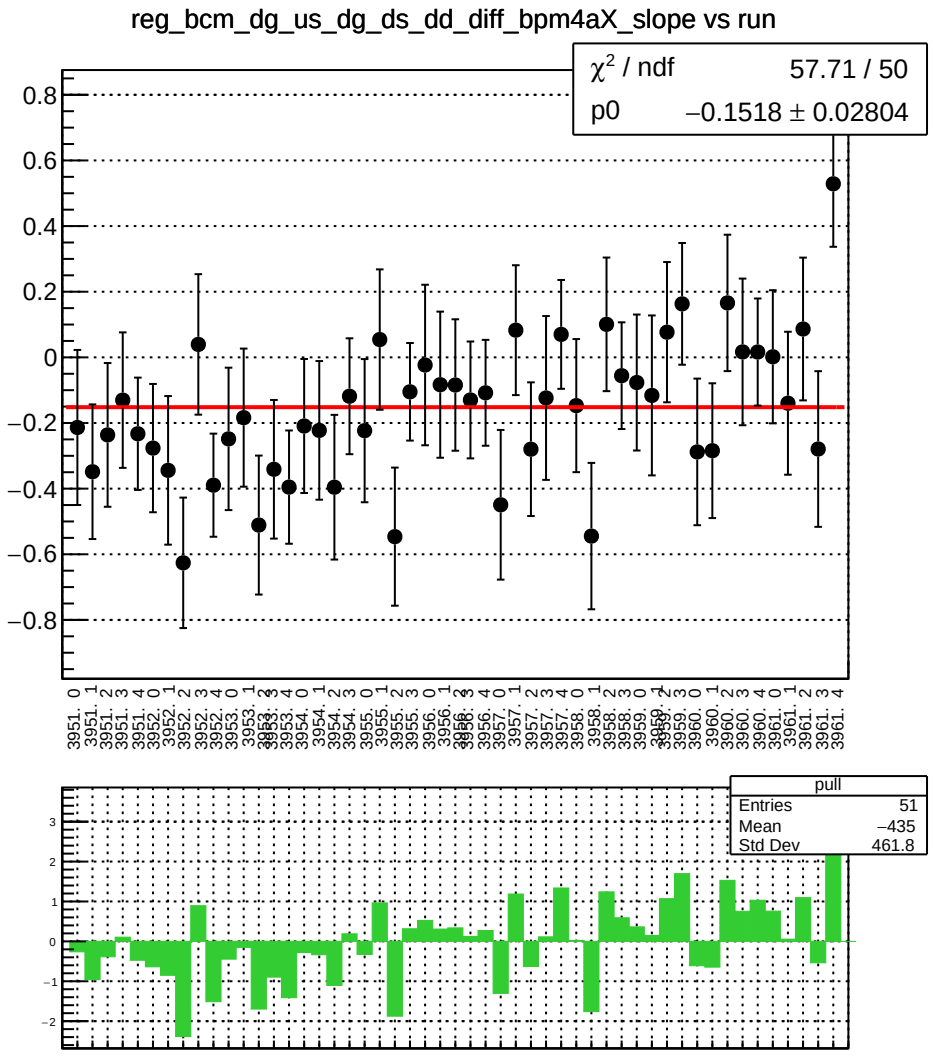

pull1D
Entries 51
Mean 0.005116
Std Dev 0.8819

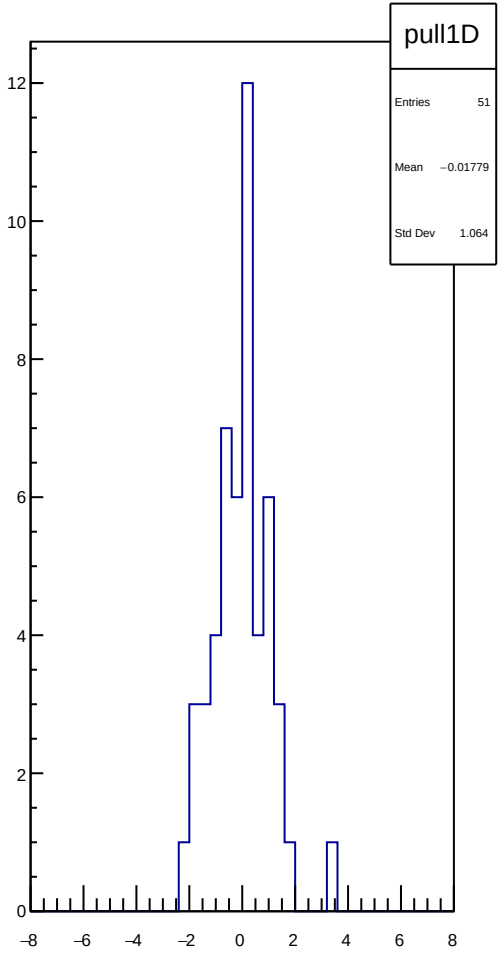

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.08 / 50
p0 −0.002683 ± 0.02313
pull
Entries 51
Mean −324.6
Std Dev 344.6

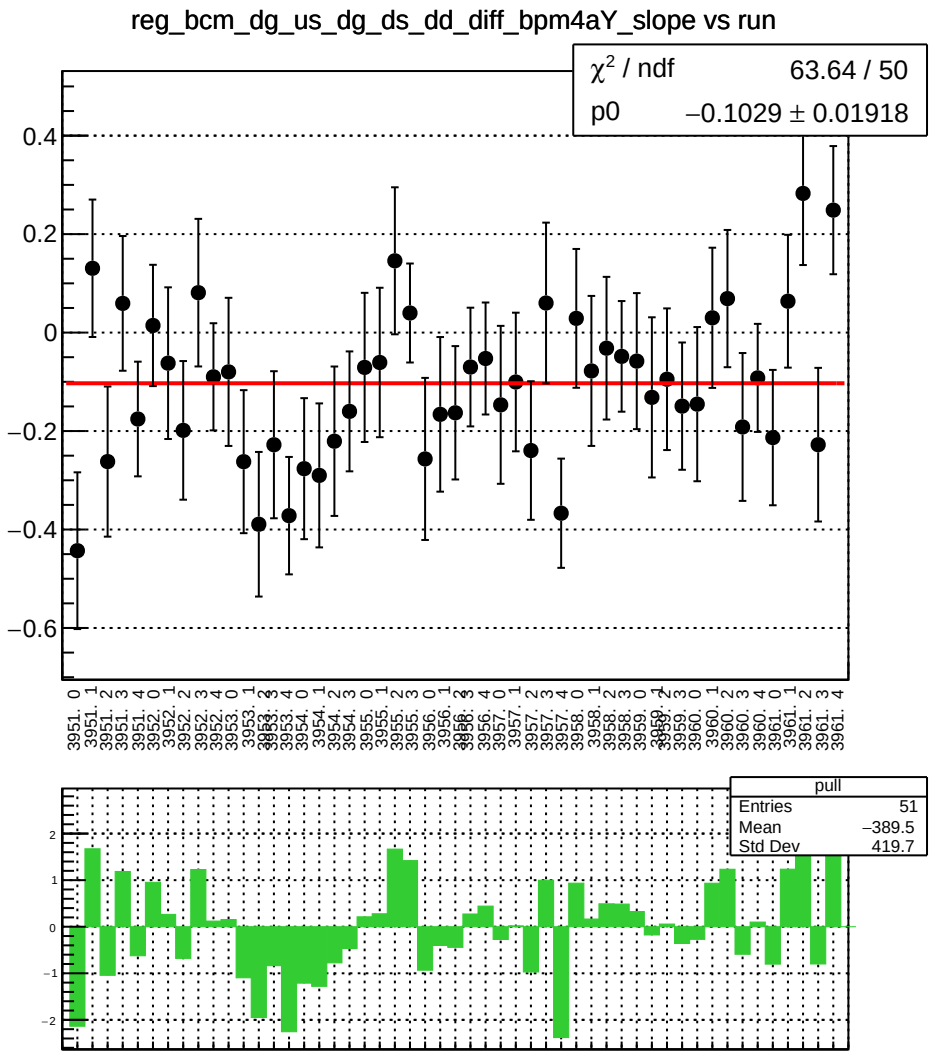

pull1D
Entries 51
Mean −0.006557
Std Dev 0.9083

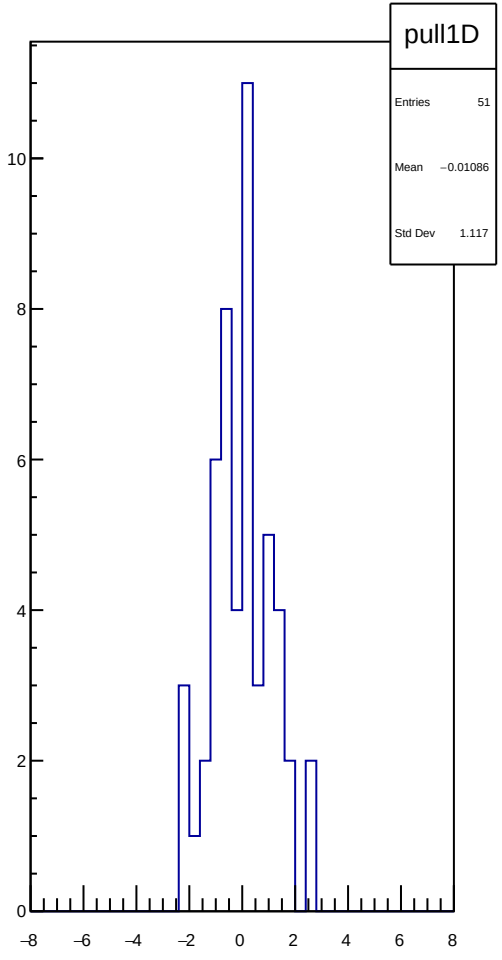

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 36.16 / 50
p0 −0.0006348 ± 0.003557
pull
Entries 51
Mean −665.5
Std Dev 699.9

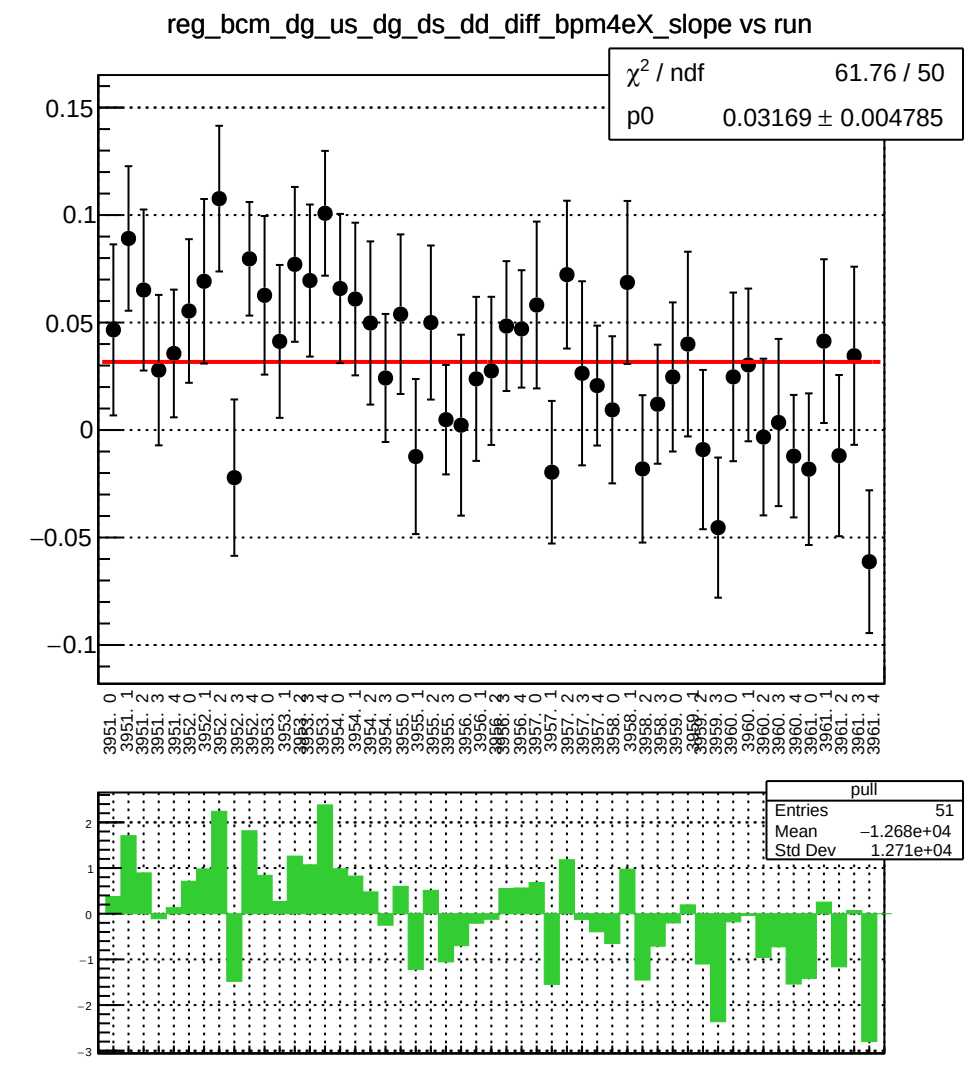

pull1D
Entries 51
Mean 0.001291
Std Dev 0.8421

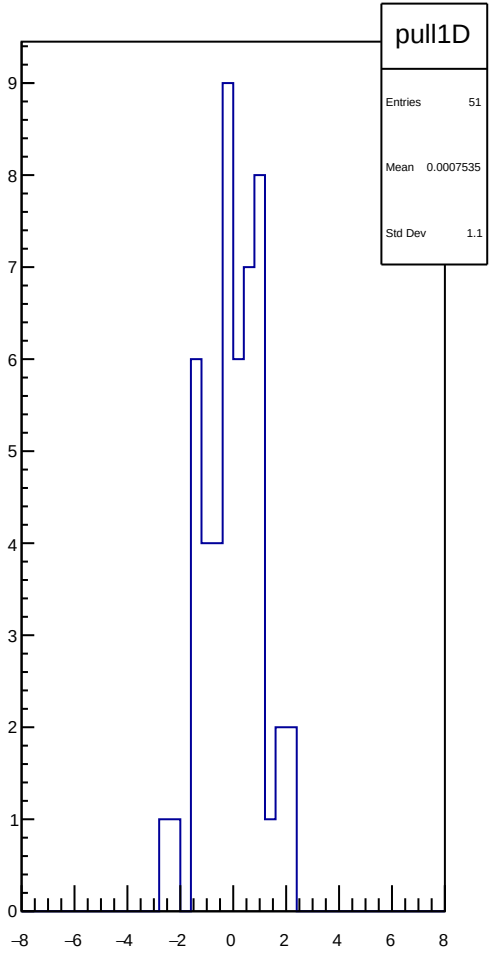

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.71 / 50
p0 −0.1518 ± 0.02804
pull
Entries 51
Mean −435
Std Dev 461.8

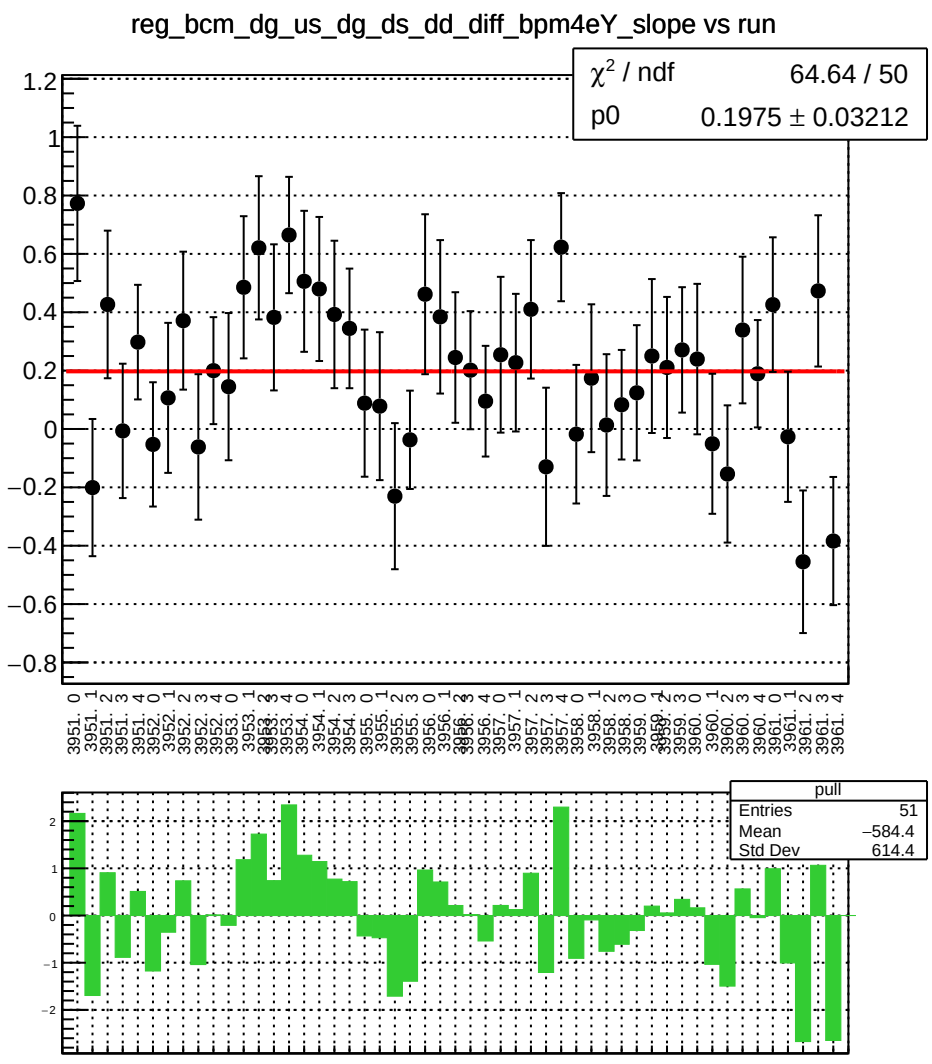

pull1D
Entries 51
Mean −0.01779
Std Dev 1.064

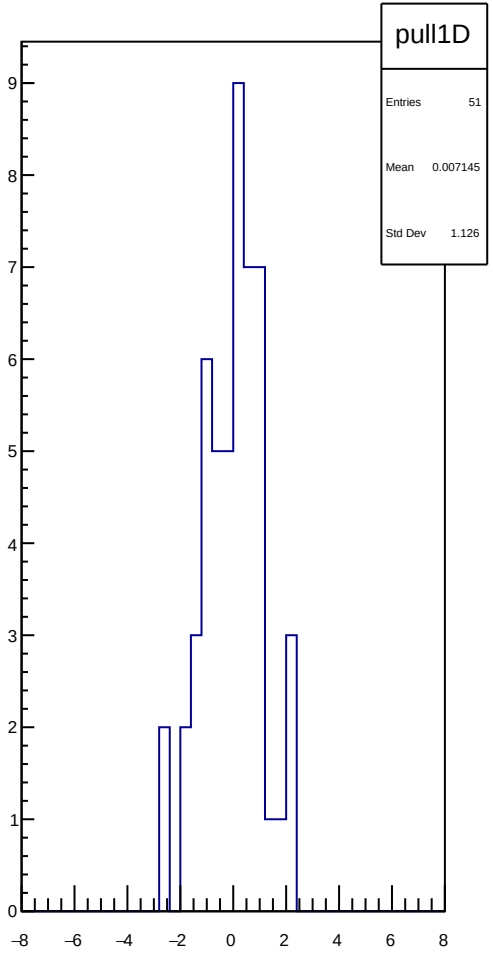

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.64 / 50
p0 −0.1029 ± 0.01918
pull
Entries 51
Mean −389.5
Std Dev 419.7

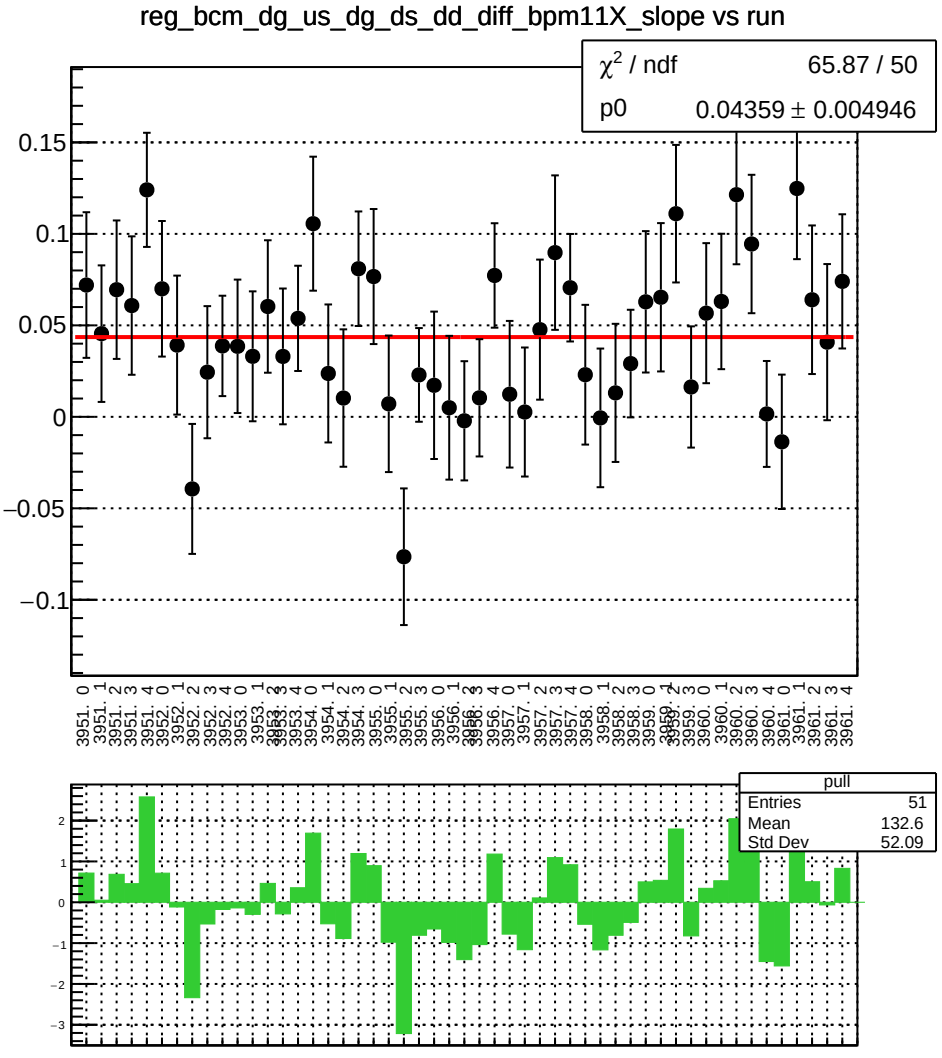

pull1D
Entries 51
Mean −0.01086
Std Dev 1.117

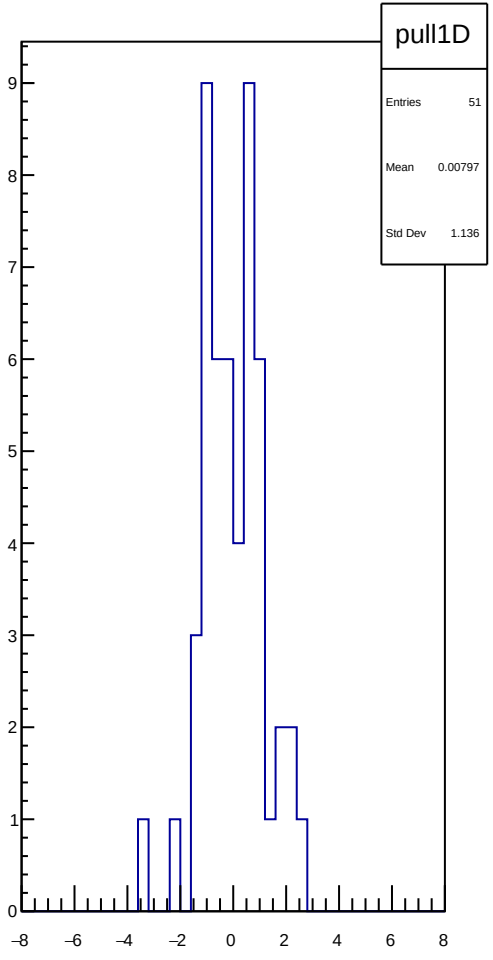

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.76 / 50
p0 0.03169 ± 0.004785
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 51
Mean −1.268e+04
Std Dev 1.271e+04
2
1
0
−1
−2
−3

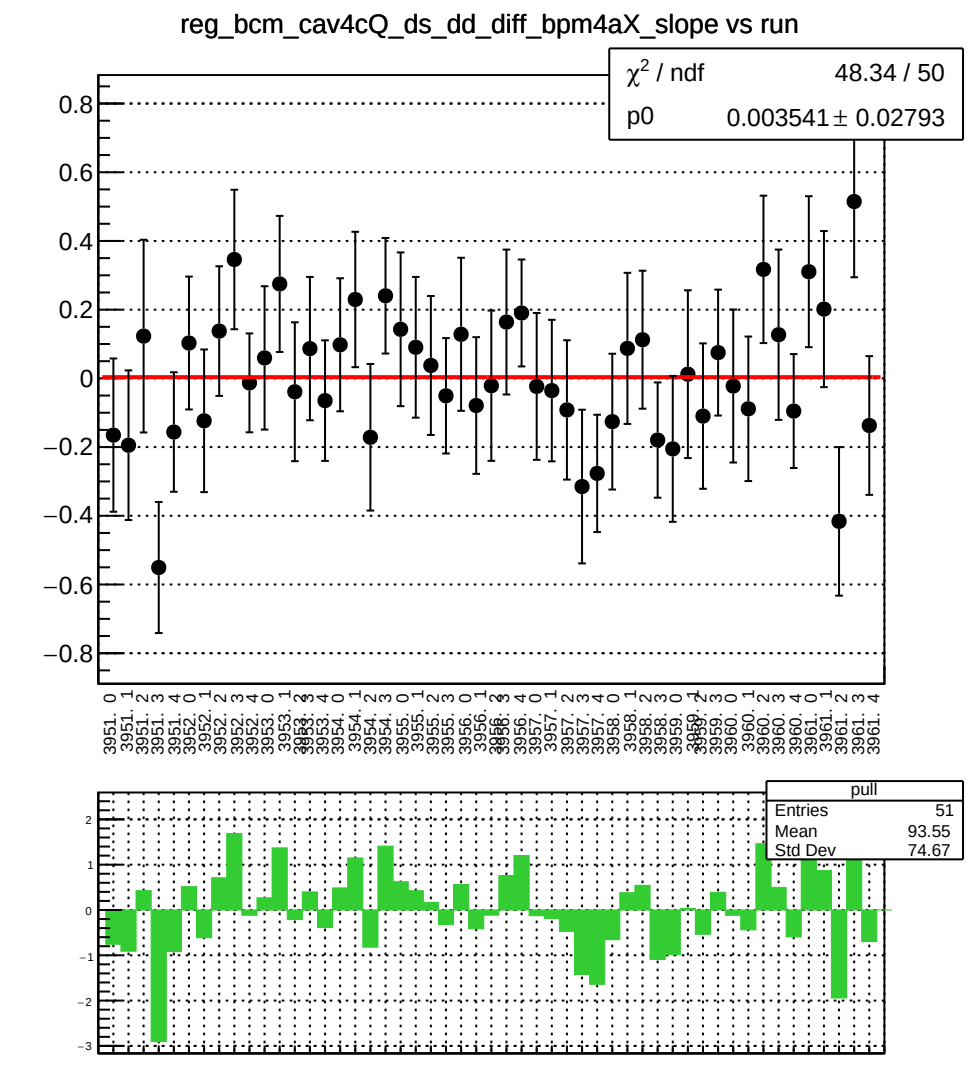

pull1D
Entries 51
Mean 0.0007535
Std Dev 1.1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

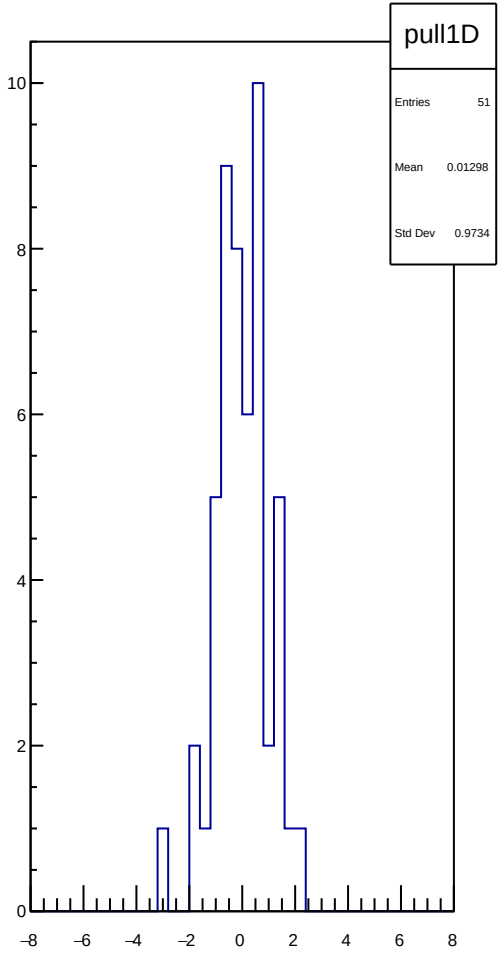

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.64 / 50
p0 0.1975 ± 0.03212
pull
Entries 51
Mean −584.4
Std Dev 614.4

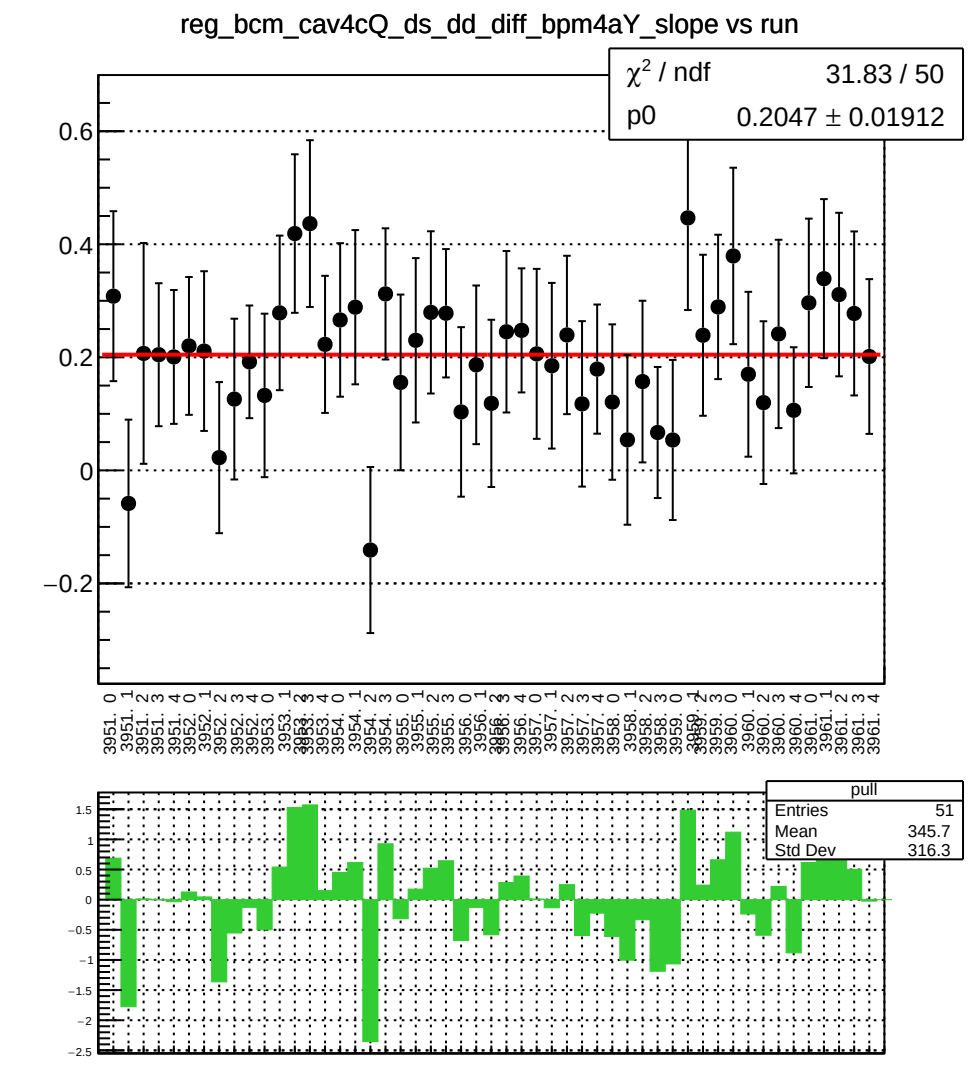

pull1D
Entries 51
Mean 0.007145
Std Dev 1.126

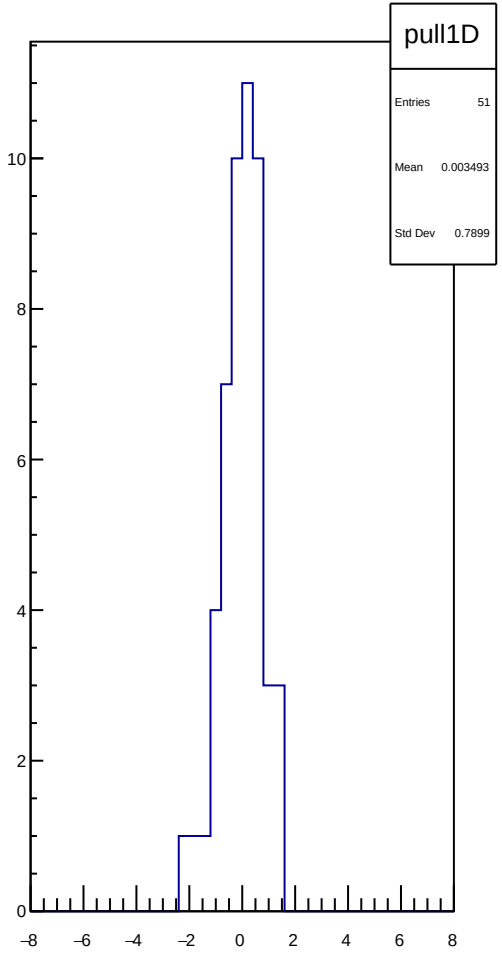

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 65.87 / 50
p0 0.04359 ± 0.004946
pull
Entries 51
Mean 132.6
Std Dev 52.09

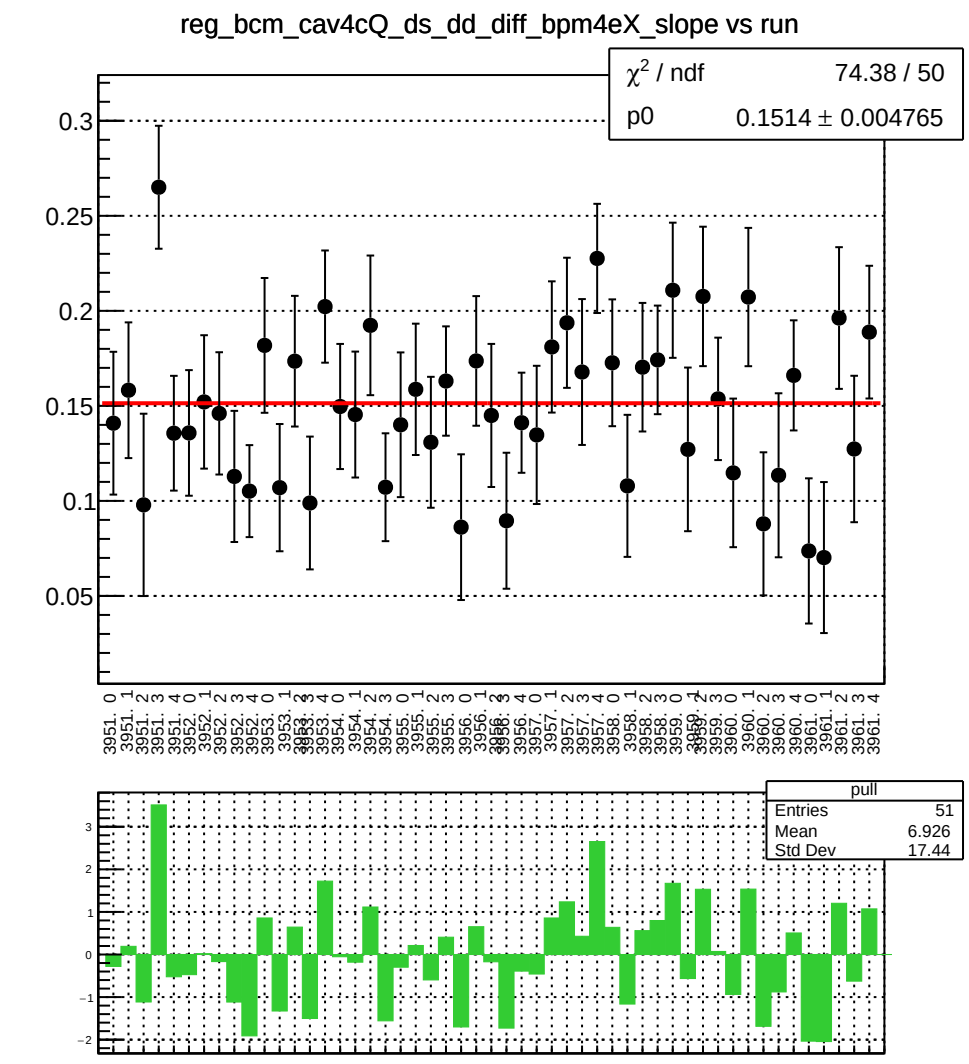

pull1D
Entries 51
Mean 0.00797
Std Dev 1.136

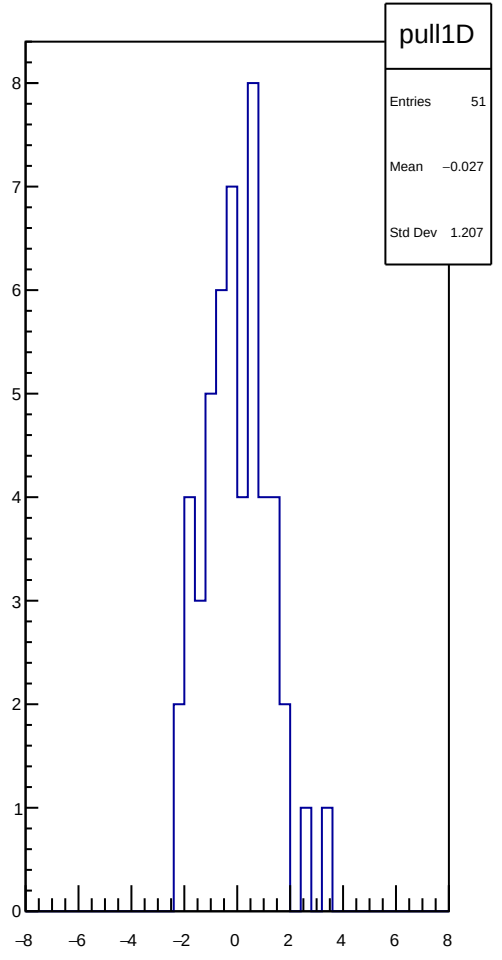

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.34 / 50
p0 0.003541 ± 0.02793
pull
Entries 51
Mean 93.55
Std Dev 74.67

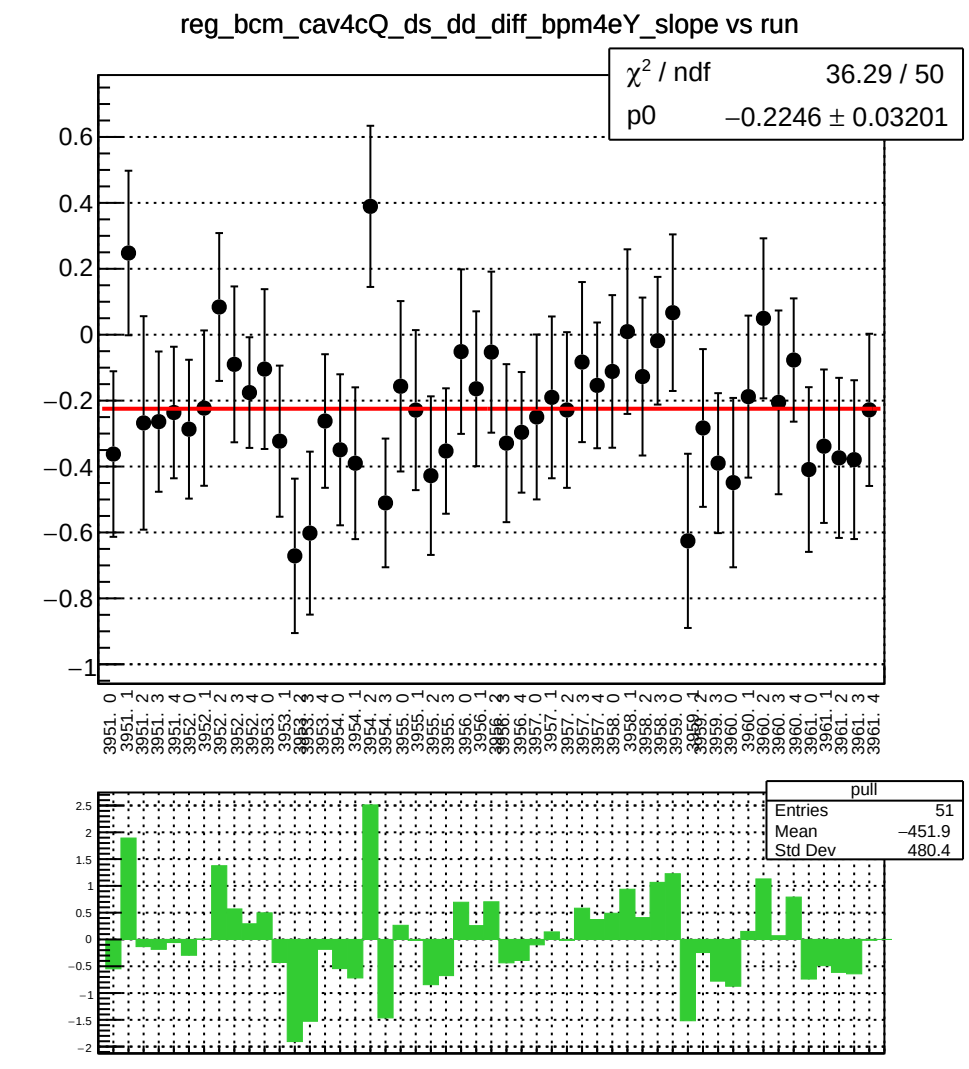

pull1D
Entries 51
Mean 0.01298
Std Dev 0.9734

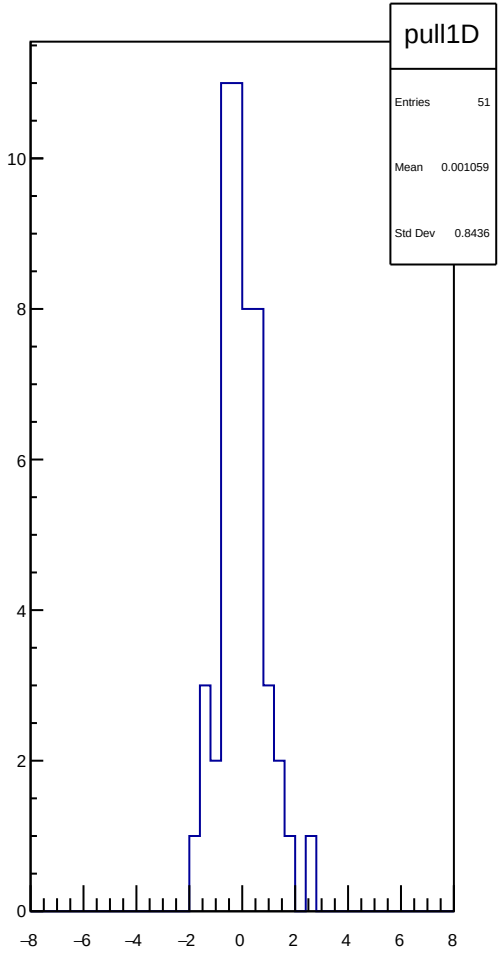

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.83 / 50
p0 0.2047 ± 0.01912
0.6
0.4
0.2
0
−0.2
pull
Entries 51
Mean 345.7
Std Dev 316.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

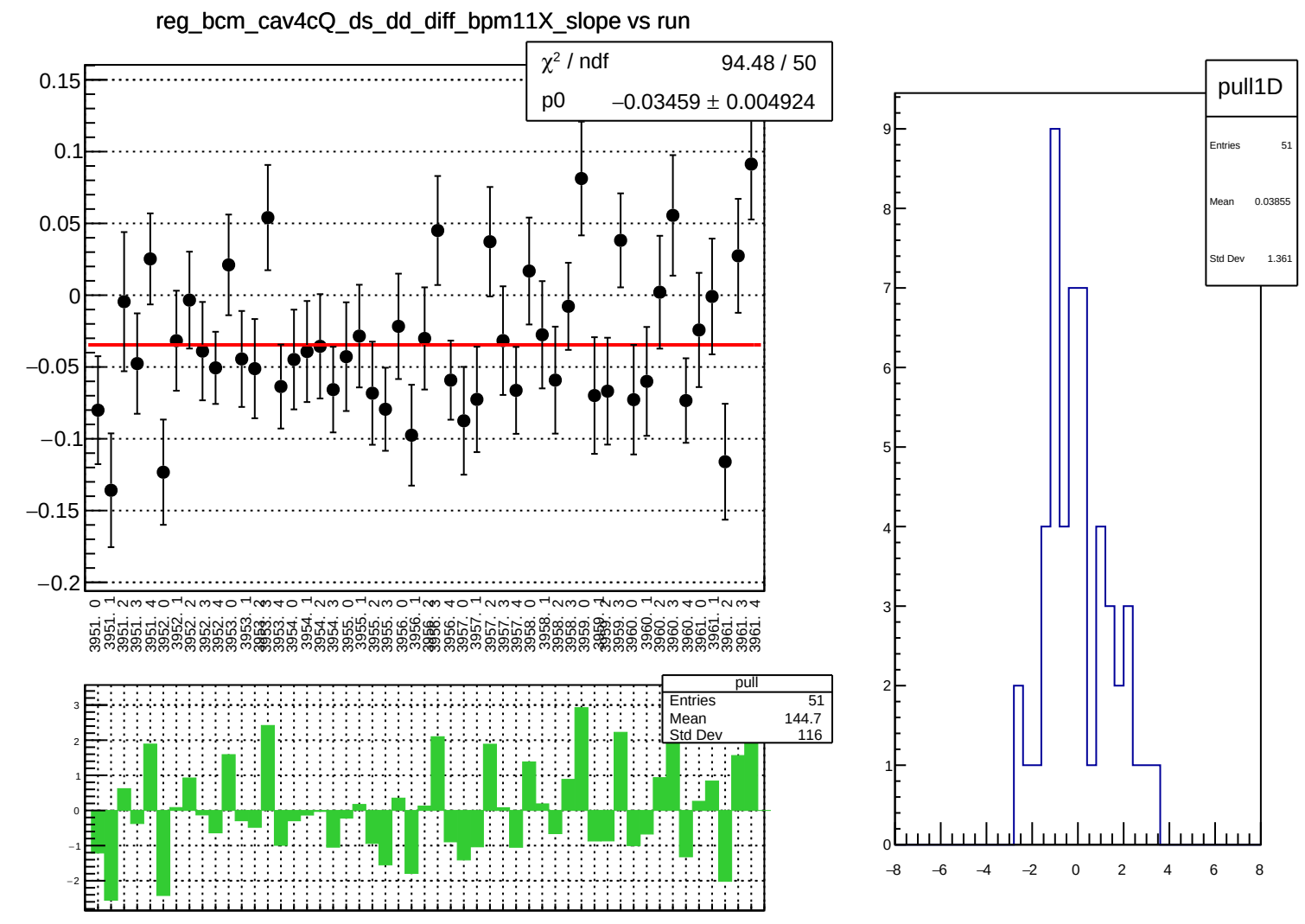

pull1D
Entries 51
Mean 0.003493
Std Dev 0.7899
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

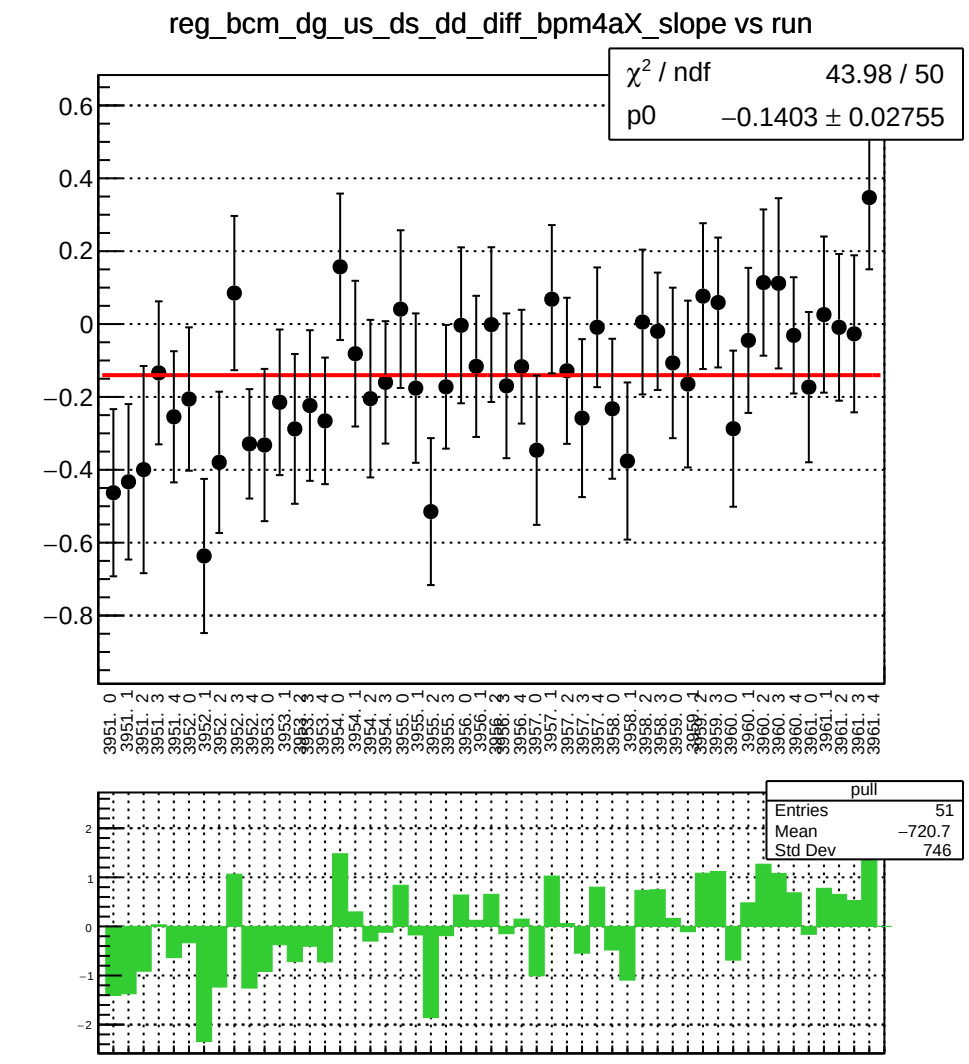

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.38 / 50
p0 0.1514 ± 0.004765
pull
Entries 51
Mean 6.926
Std Dev 17.44

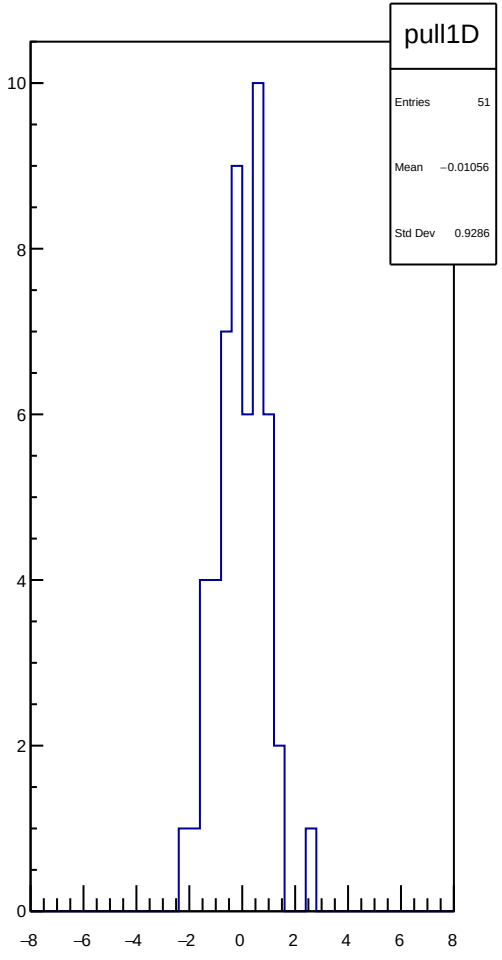

pull1D
Entries 51
Mean −0.027
Std Dev 1.207

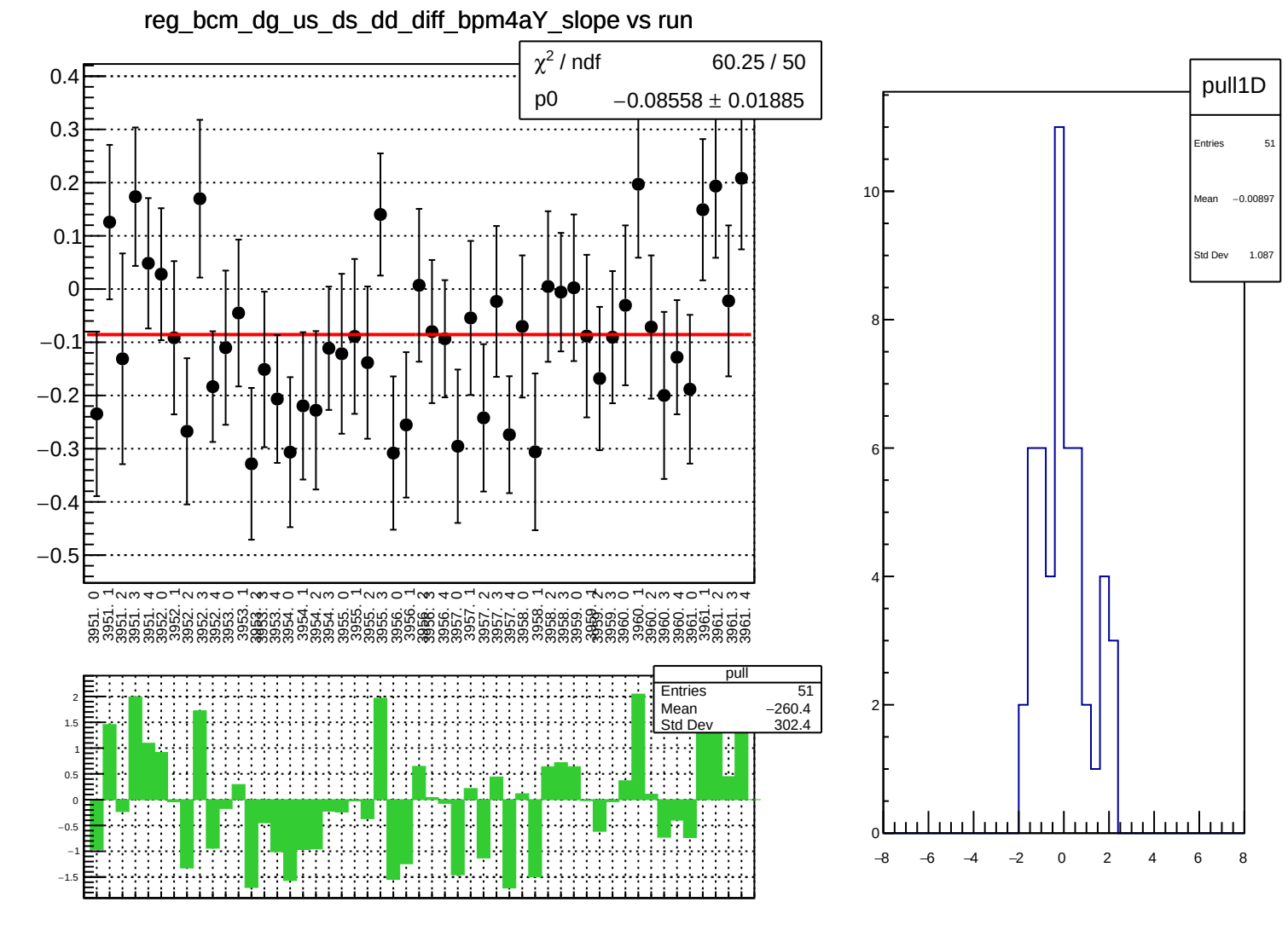

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.29 / 50
p0 −0.2246 ± 0.03201
pull
Entries 51
Mean −451.9
Std Dev 480.4

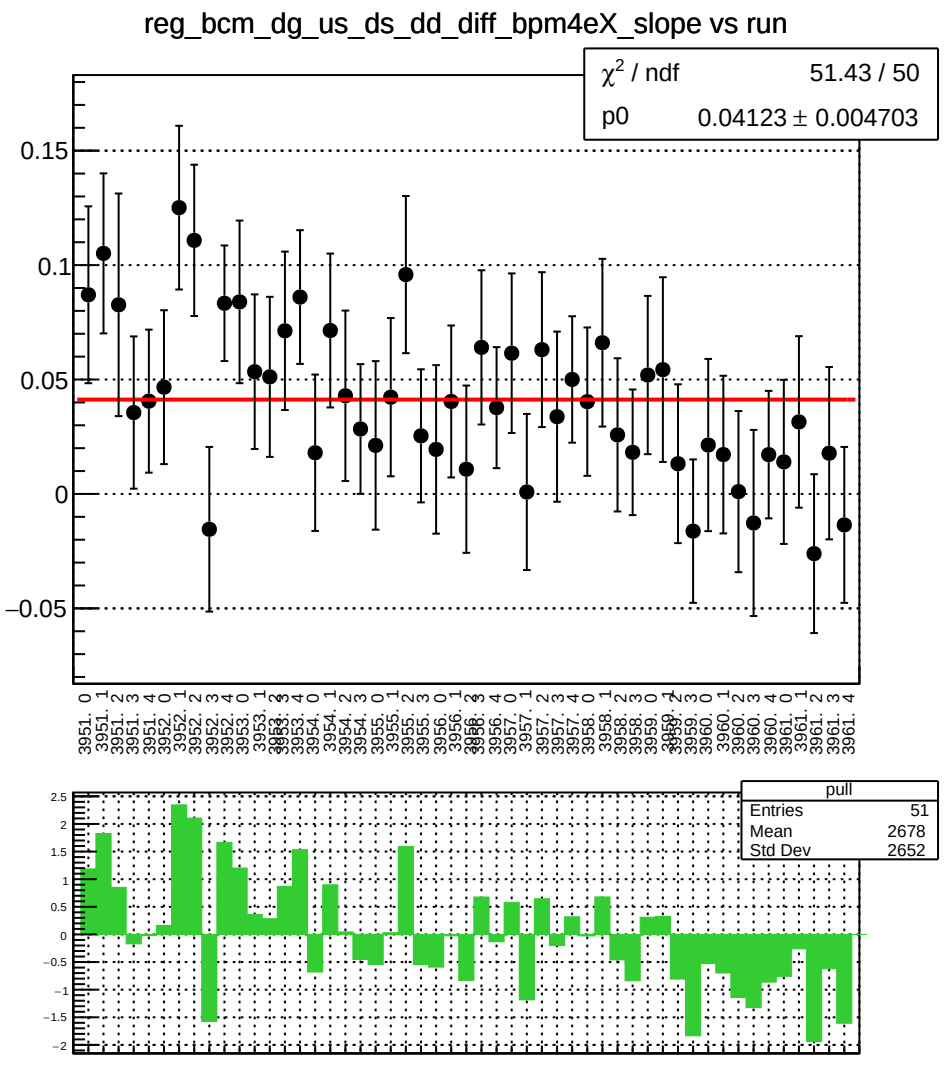

pull1D
Entries 51
Mean 0.001059
Std Dev 0.8436

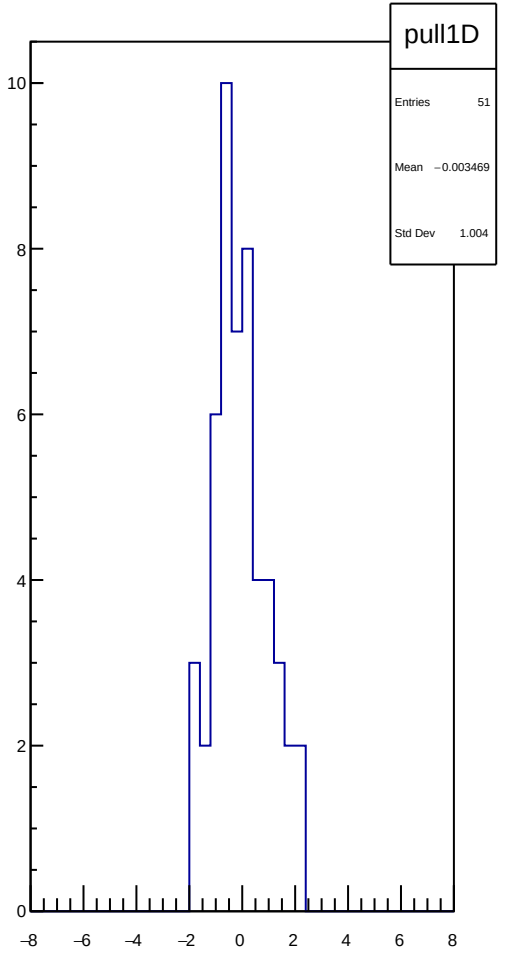

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 94.48 / 50
p0 −0.03459 ± 0.004924
pull
Entries 51
Mean 144.7
Std Dev 116
pull1D
Entries 51
Mean 0.03855
Std Dev 1.361

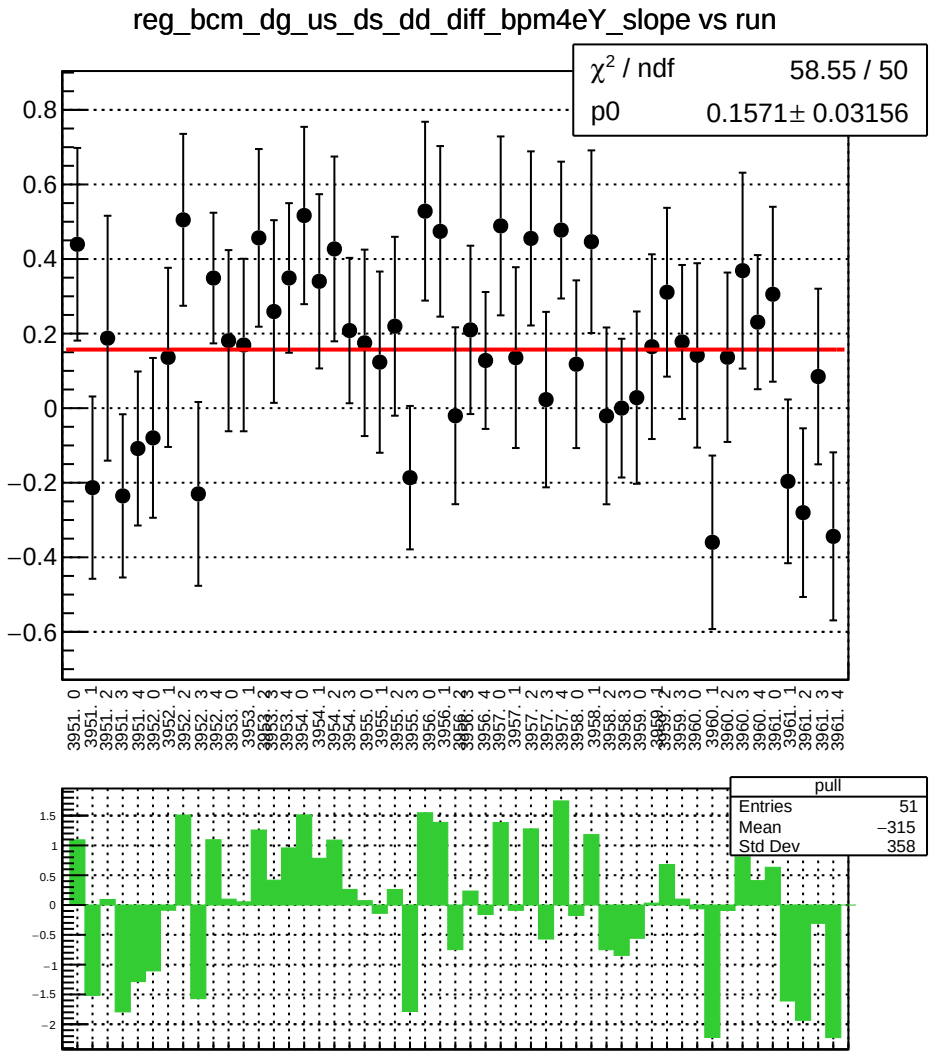

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 43.98 / 50
p0 −0.1403 ± 0.02755
pull
Entries 51
Mean −720.7
Std Dev 746

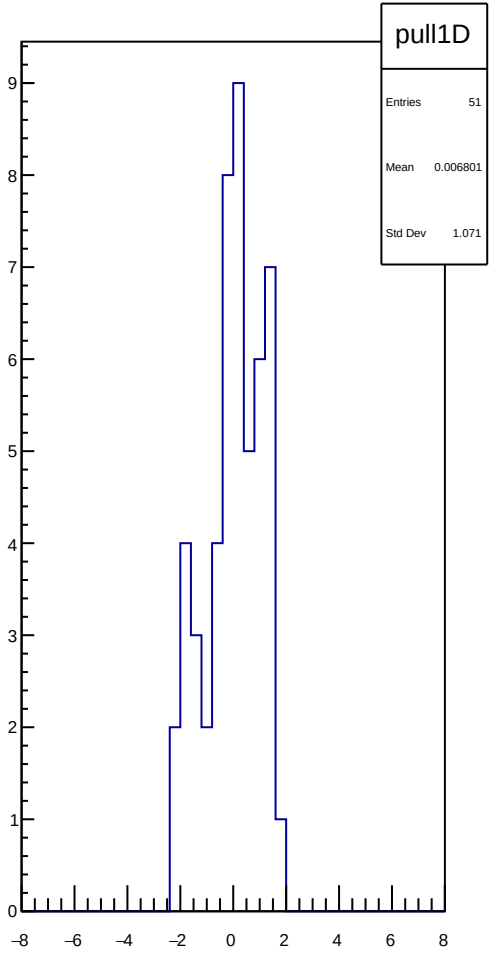

pull1D
Entries 51
Mean −0.01056
Std Dev 0.9286

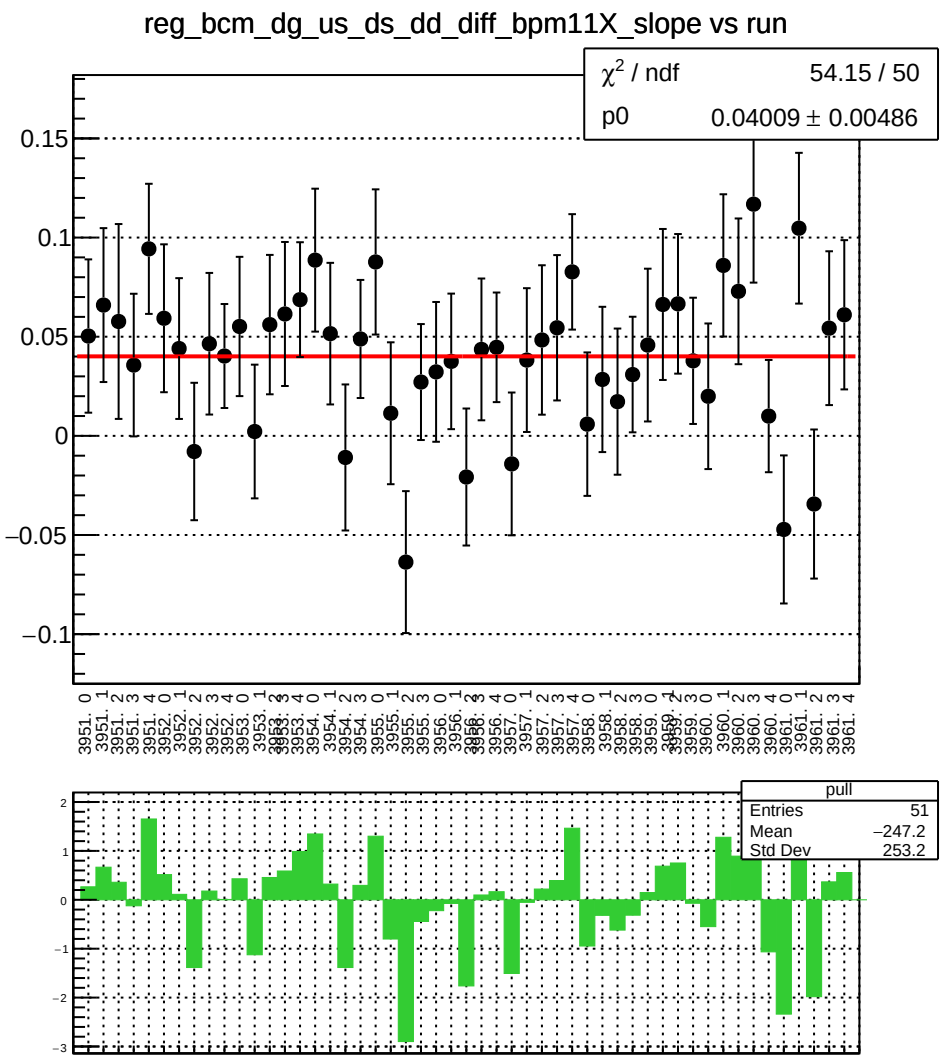

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.25 / 50
p0 −0.08558 ± 0.01885
pull
Entries 51
Mean −260.4
Std Dev 302.4
pull1D
Entries 51
Mean −0.00897
Std Dev 1.087

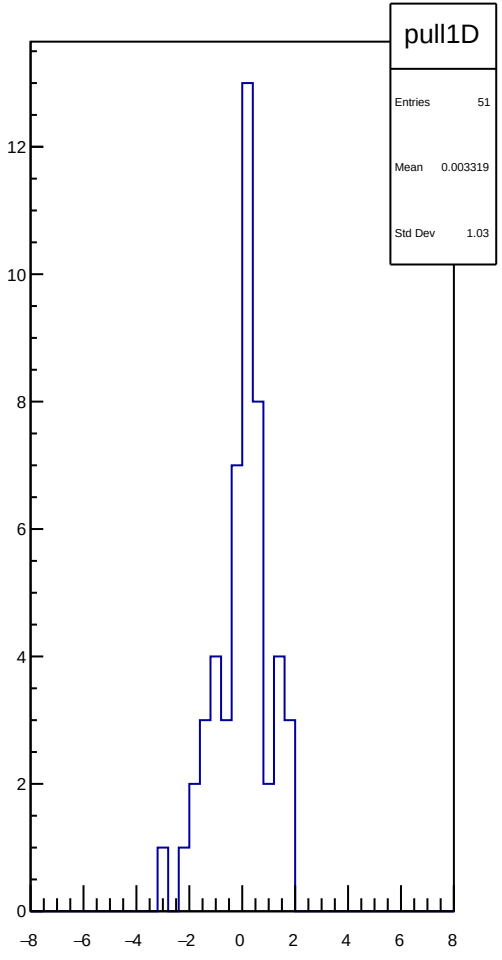

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.43 / 50
p0 0.04123 ± 0.004703
0.15
0.1
0.05
0
−0.05
pull
Entries 51
Mean 2678
Std Dev 2652
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

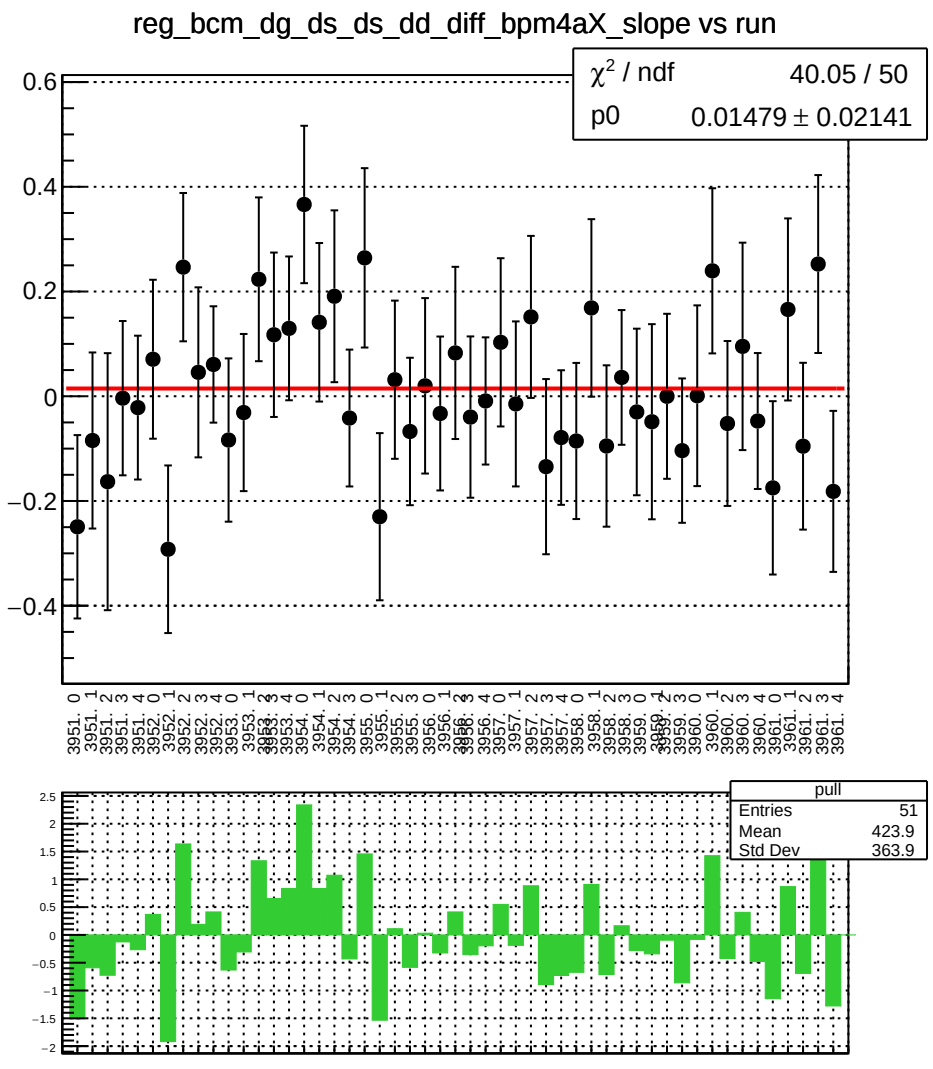

pull1D
Entries 51
Mean −0.003469
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

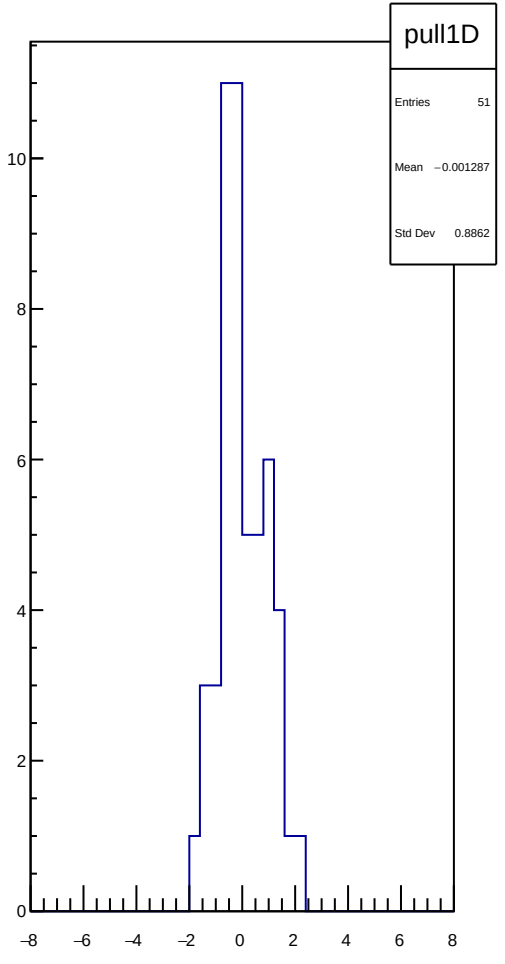

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.55 / 50
p0 0.1571± 0.03156
pull
Entries 51
Mean −315
Std Dev 358

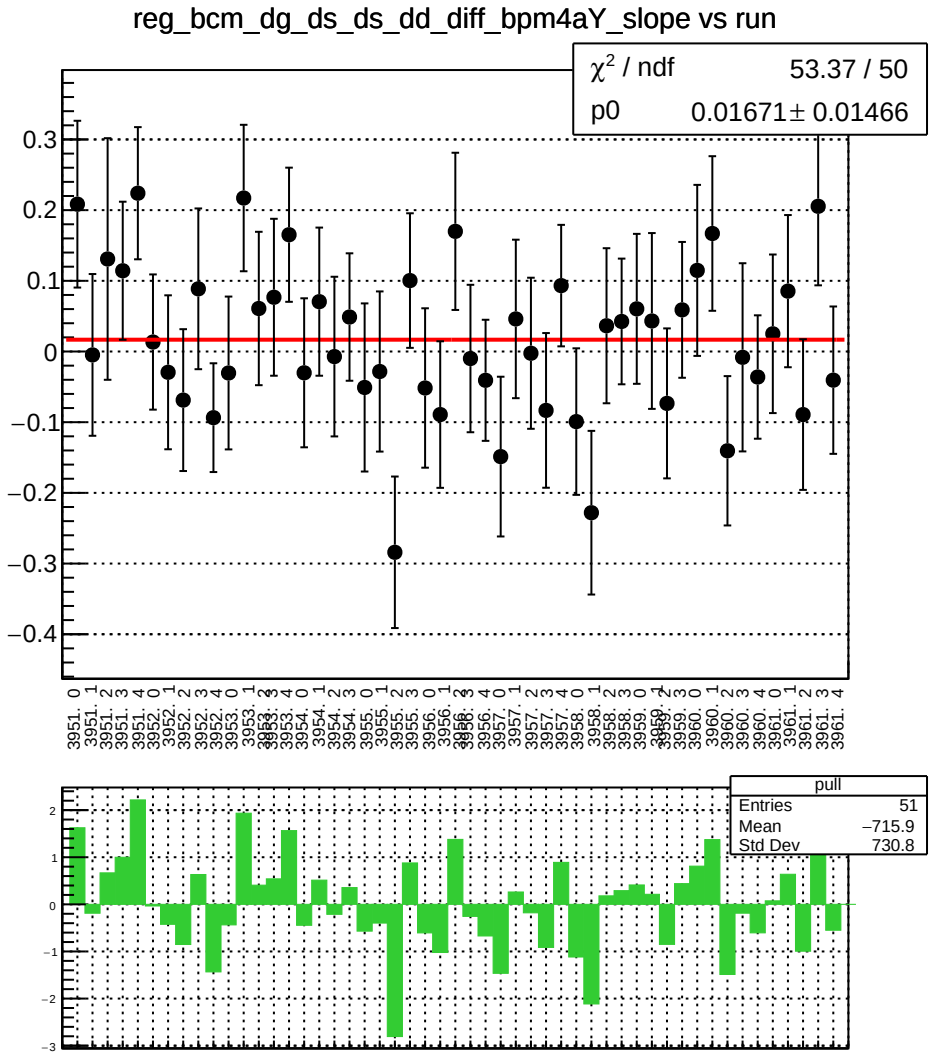

pull1D
Entries 51
Mean 0.006801
Std Dev 1.071

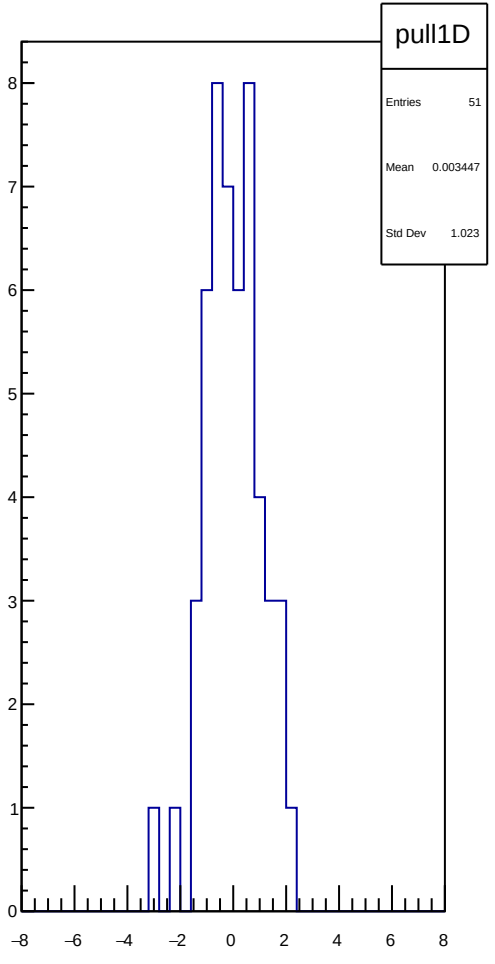

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 54.15 / 50
p0 0.04009 ± 0.00486
pull
Entries 51
Mean −247.2
Std Dev 253.2

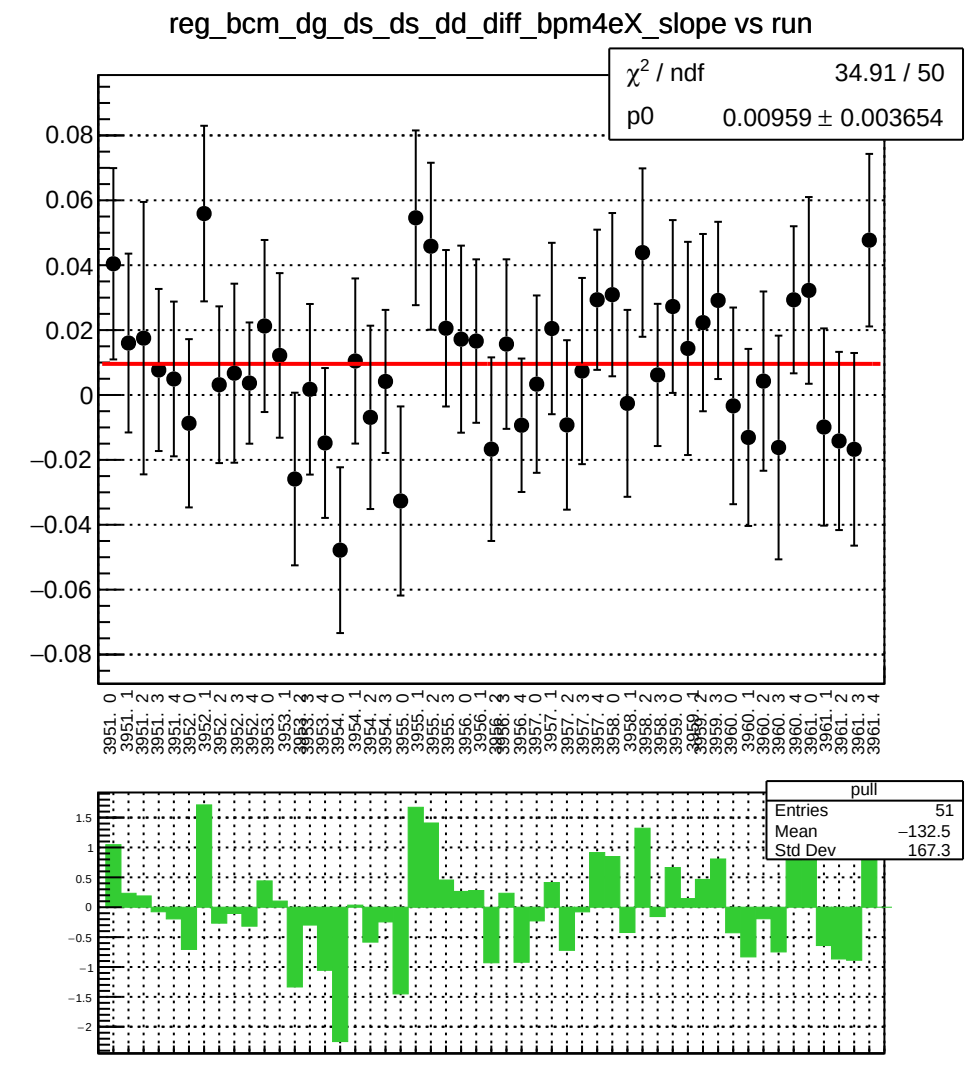

pull1D
Entries 51
Mean 0.003319
Std Dev 1.03

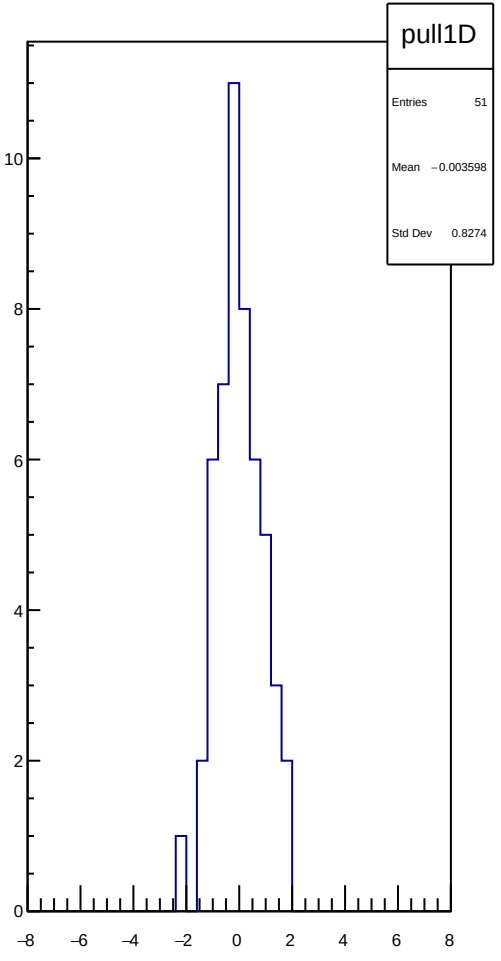

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.05 / 50
p0 0.01479 ± 0.02141
pull
Entries 51
Mean 423.9
Std Dev 363.9

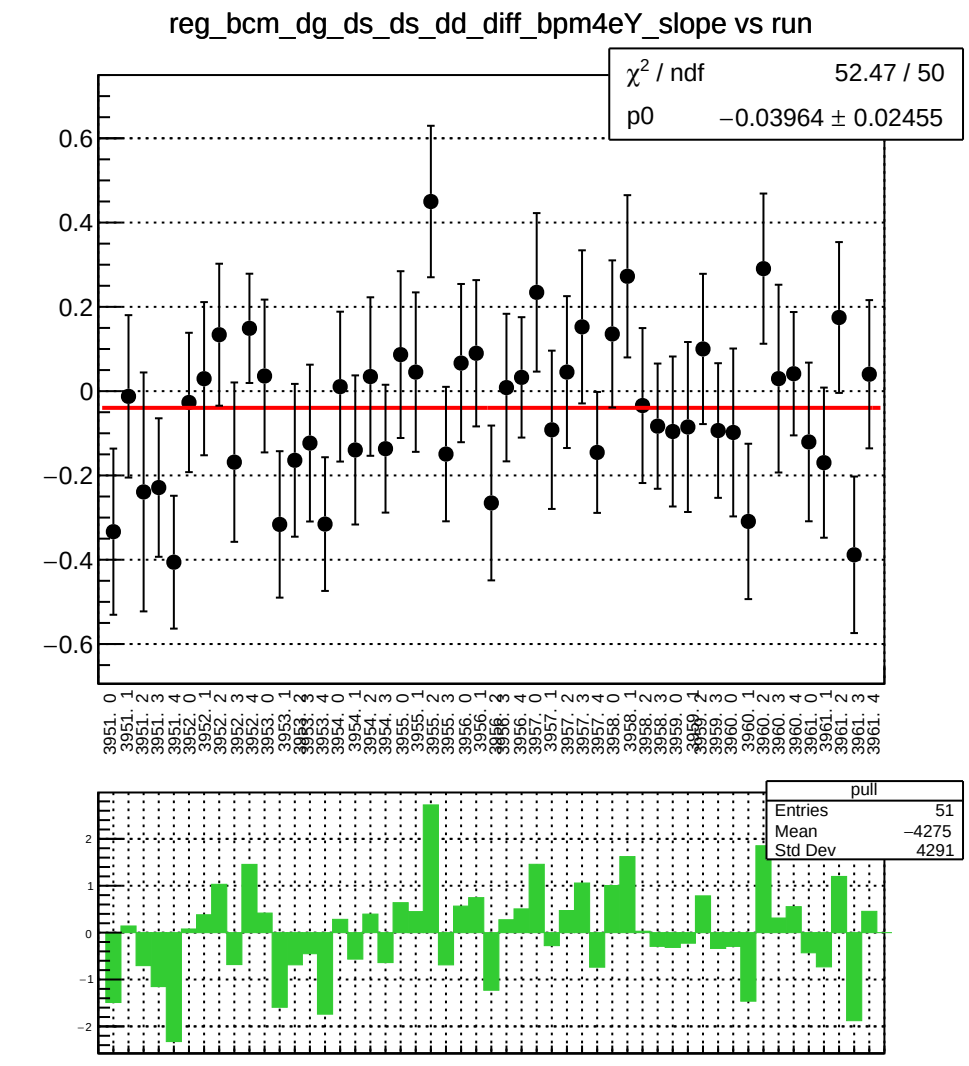

pull1D
Entries 51
Mean −0.001287
Std Dev 0.8862

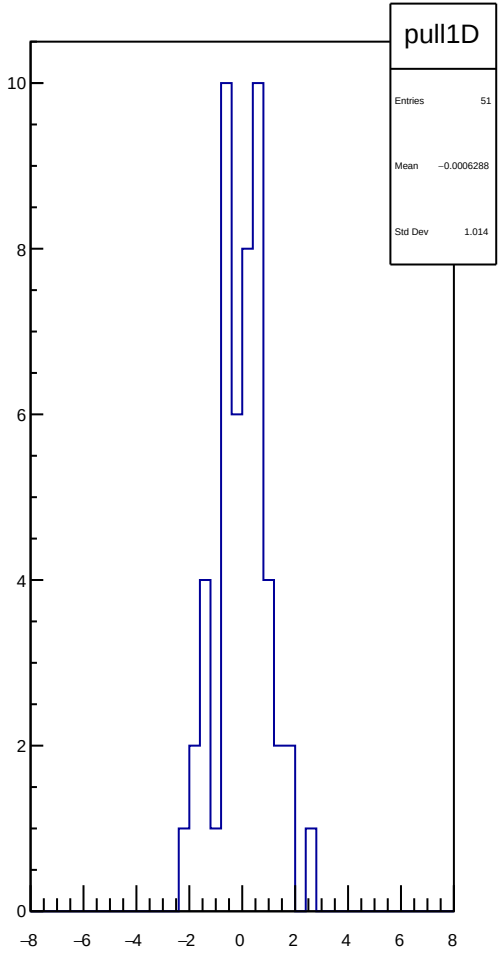

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.37 / 50
p0 0.01671 ± 0.01466
pull
Entries 51
Mean −715.9
Std Dev 730.8

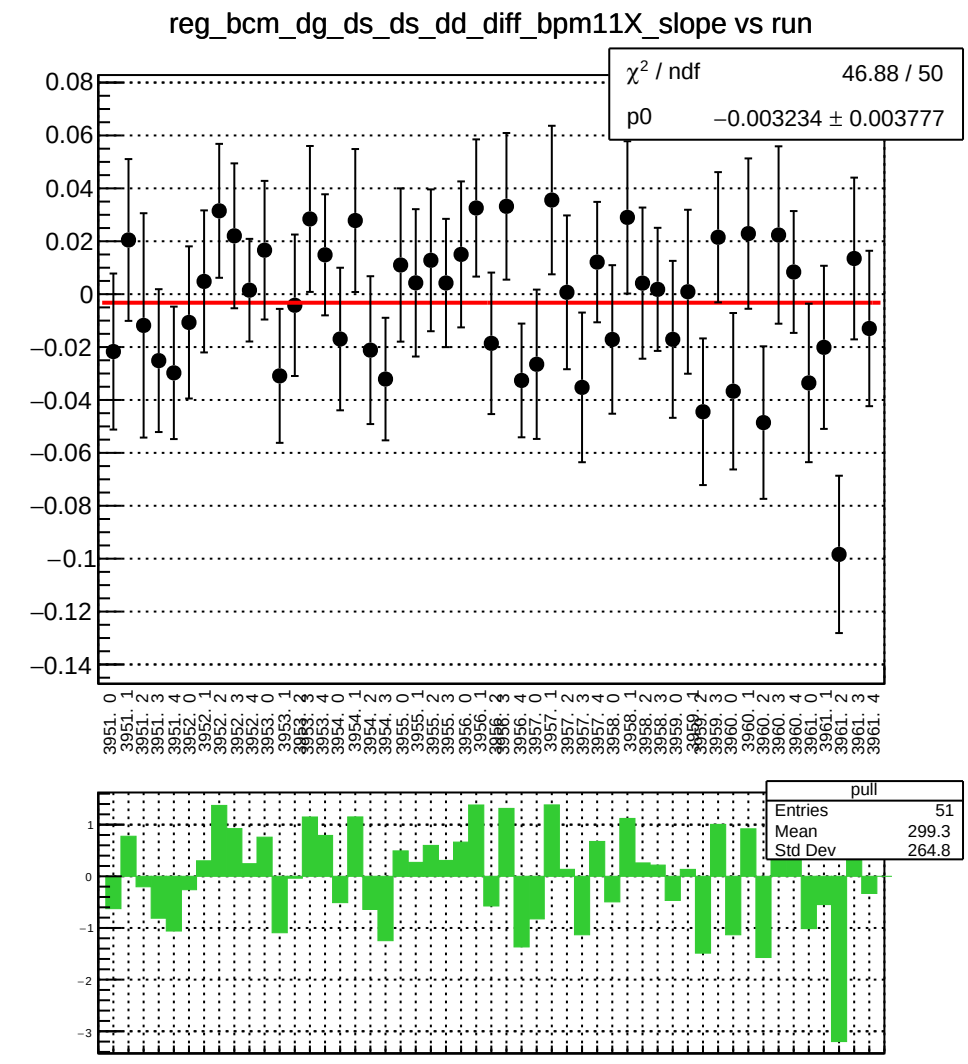

pull1D
Entries 51
Mean 0.003447
Std Dev 1.023

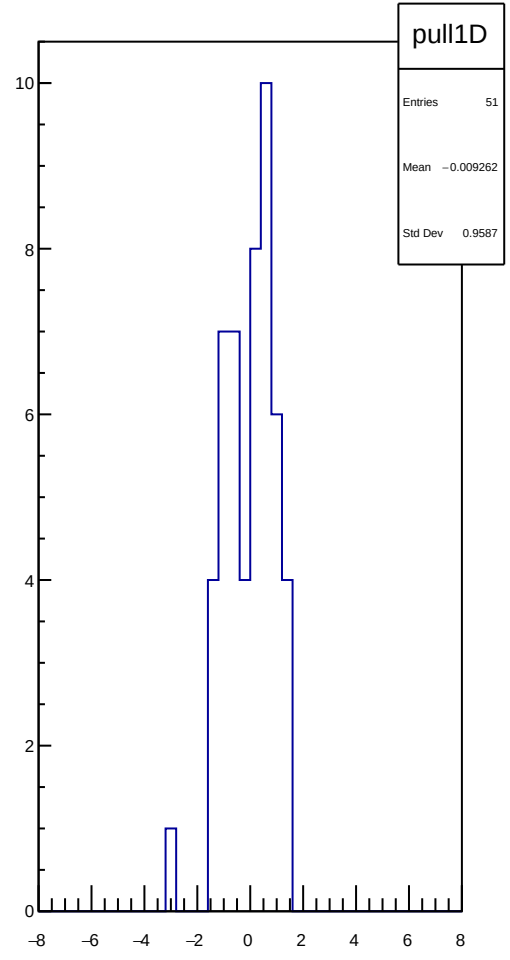

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.91 / 50
p0 0.00959 ± 0.003654
pull
Entries 51
Mean −132.5
Std Dev 167.3

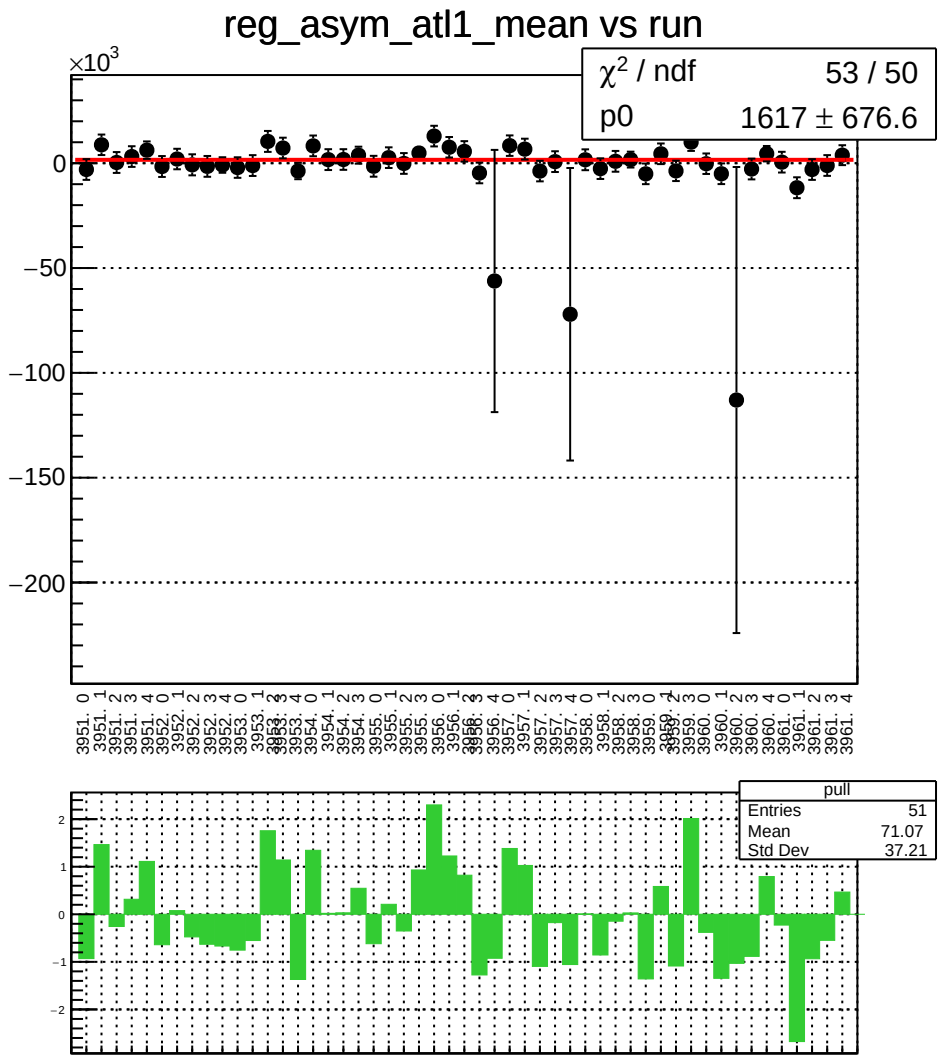

pull1D
Entries 51
Mean −0.003598
Std Dev 0.8274

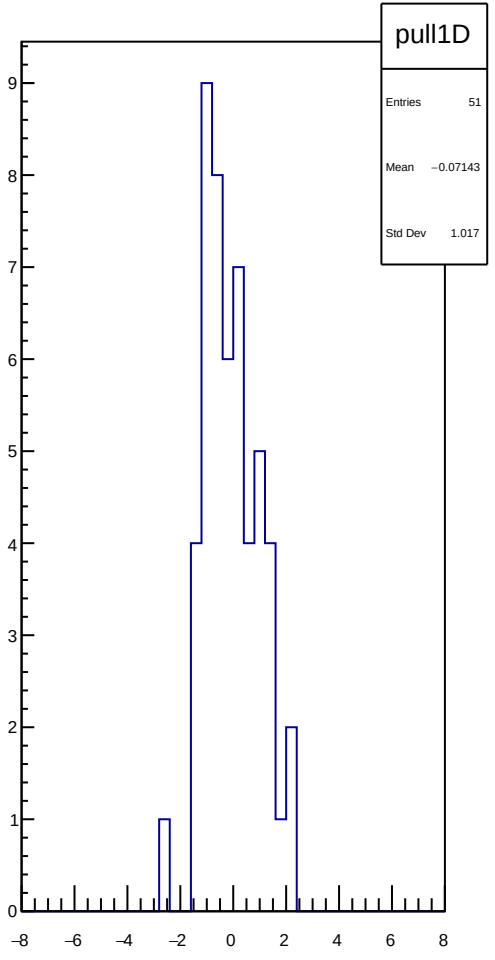

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.47 / 50
p0 −0.03964 ± 0.02455
pull
Entries 51
Mean −4275
Std Dev 4291

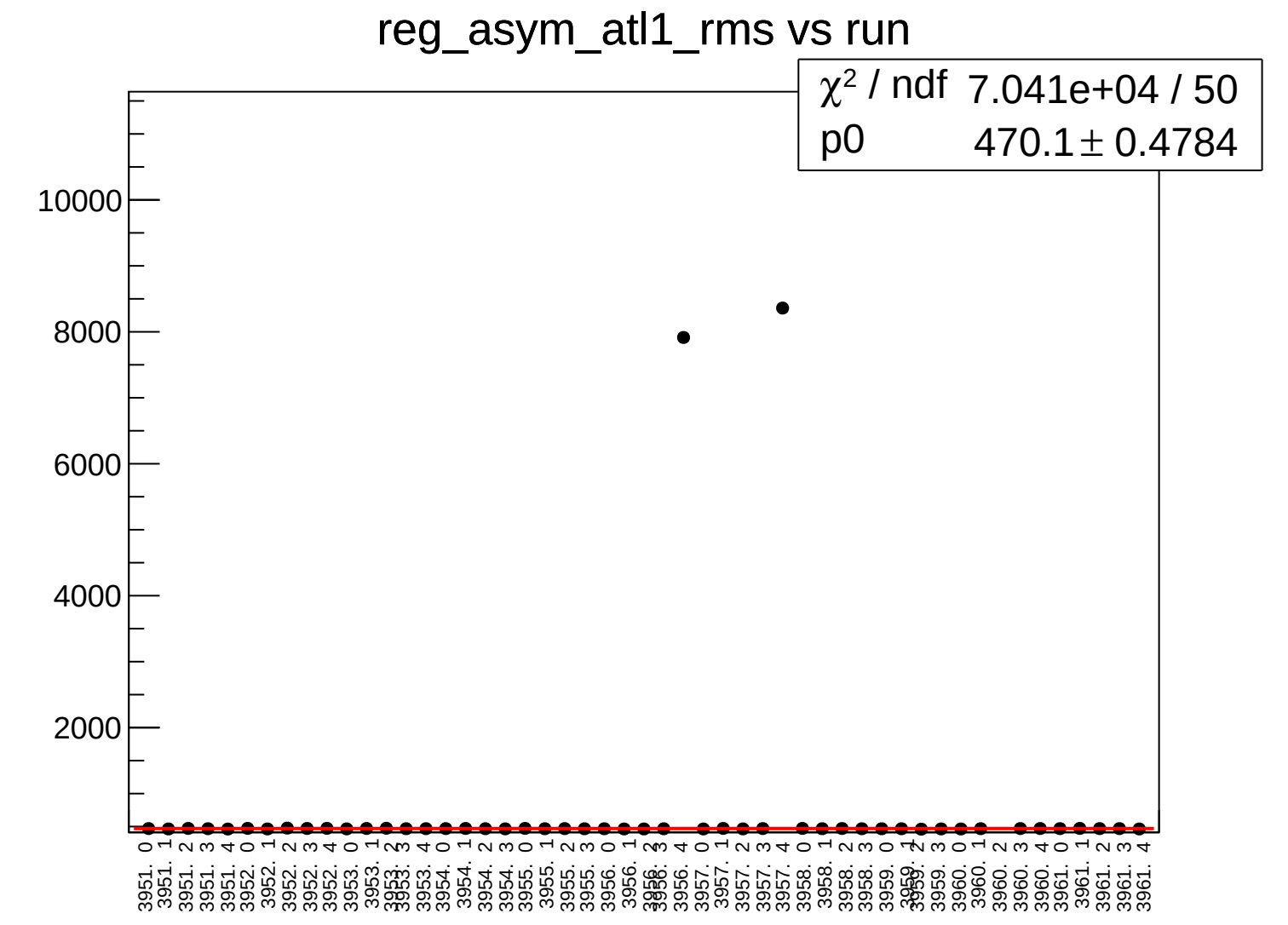

pull1D
Entries 51
Mean −0.0006288
Std Dev 1.014

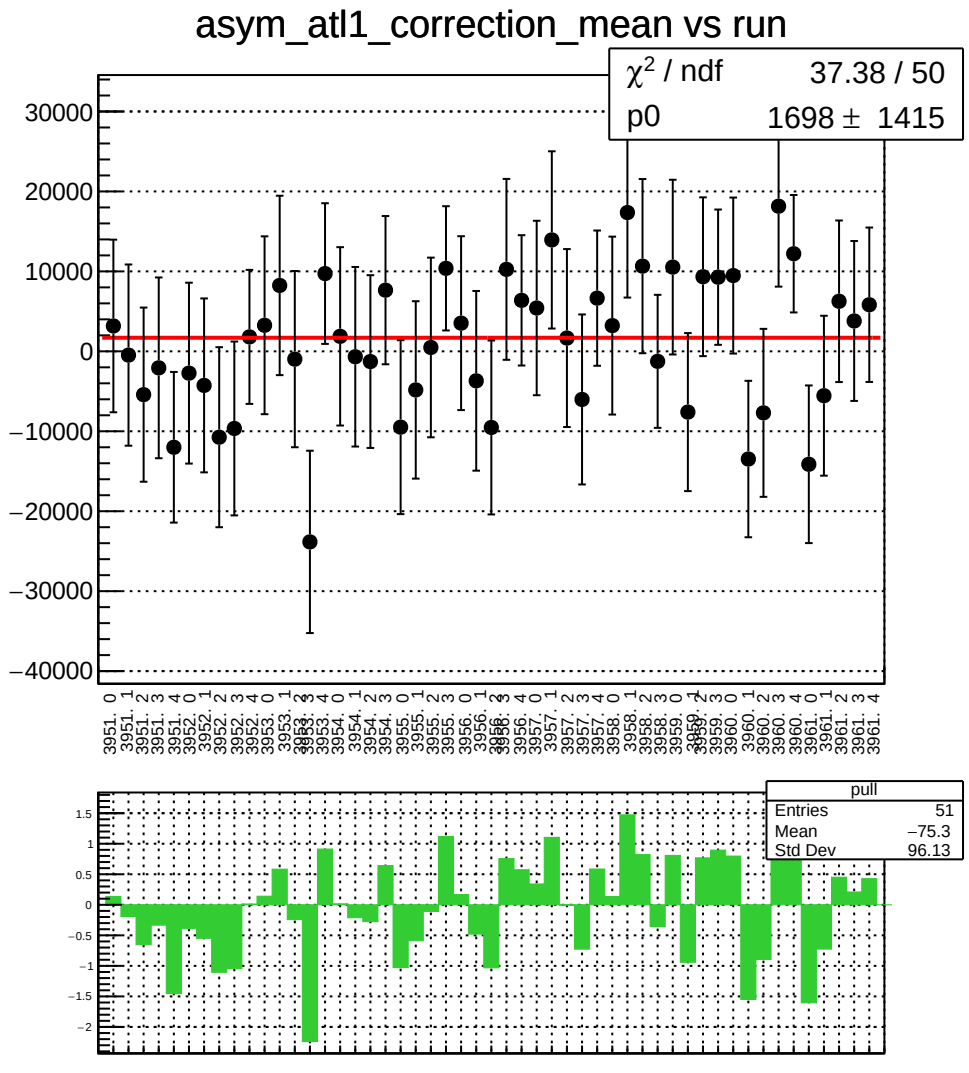

reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 46.88 / 50
p0 −0.003234 ± 0.003777
pull
Entries 51
Mean 299.3
Std Dev 264.8

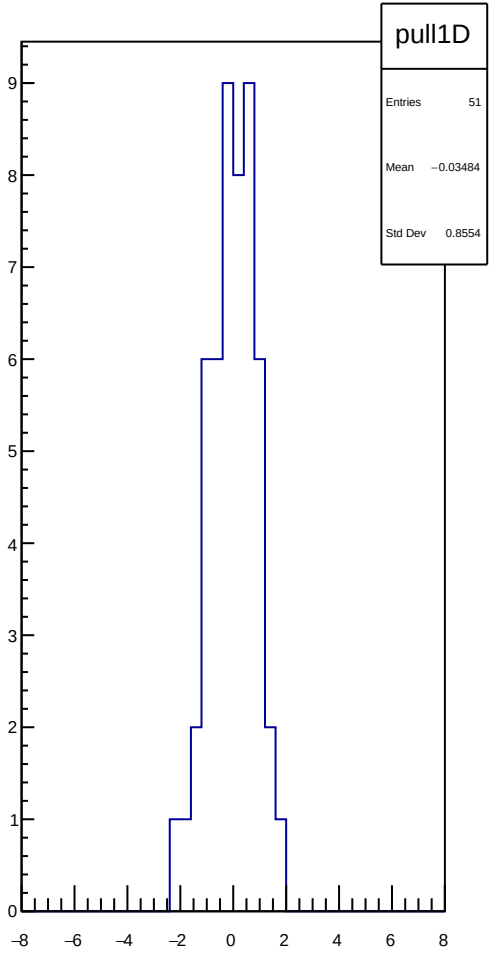

pull1D
Entries 51
Mean −0.009262
Std Dev 0.9587

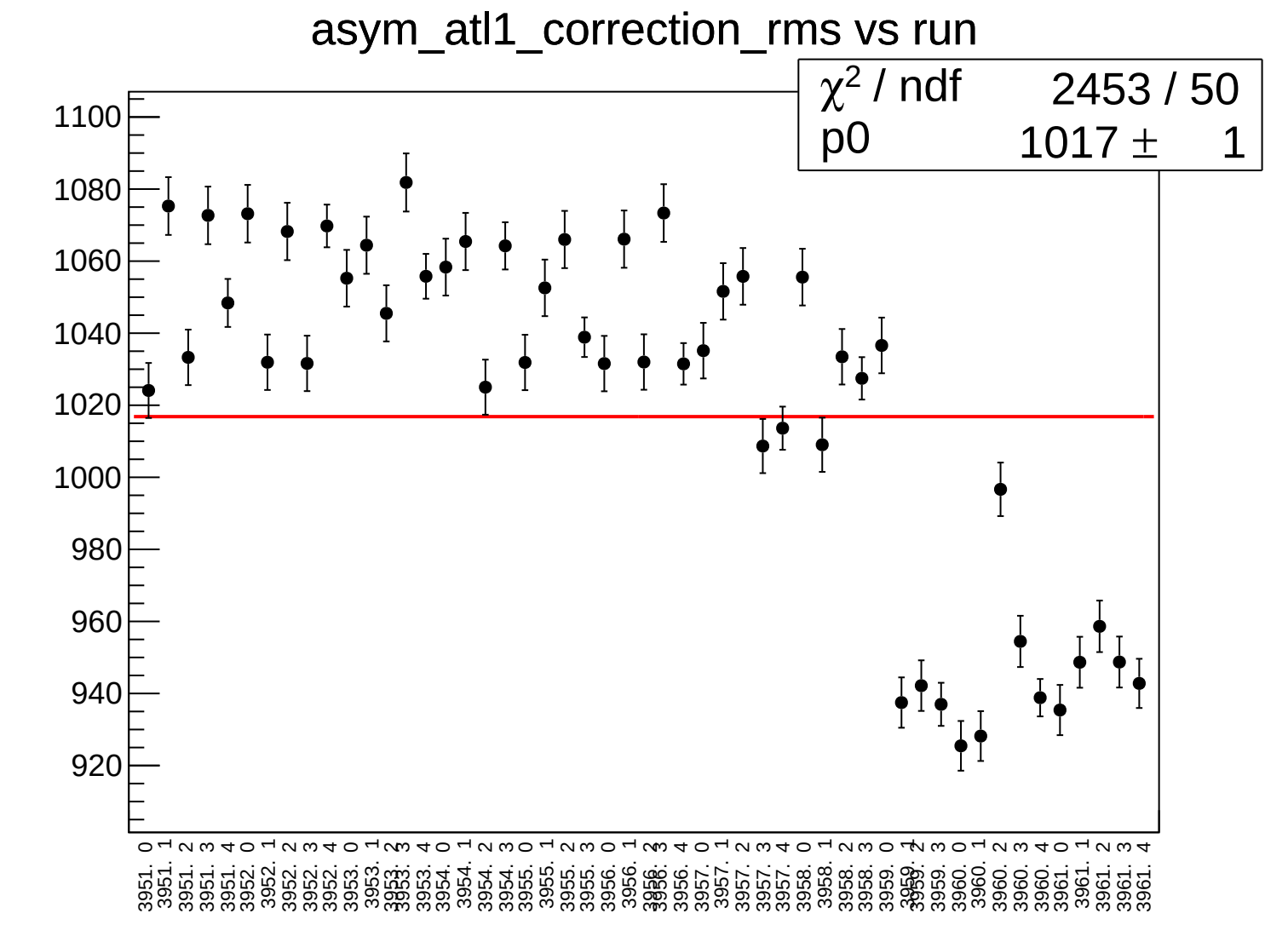

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 53 / 50
p0 1617 ± 676.6
pull
Entries 51
Mean 71.07
Std Dev 37.21

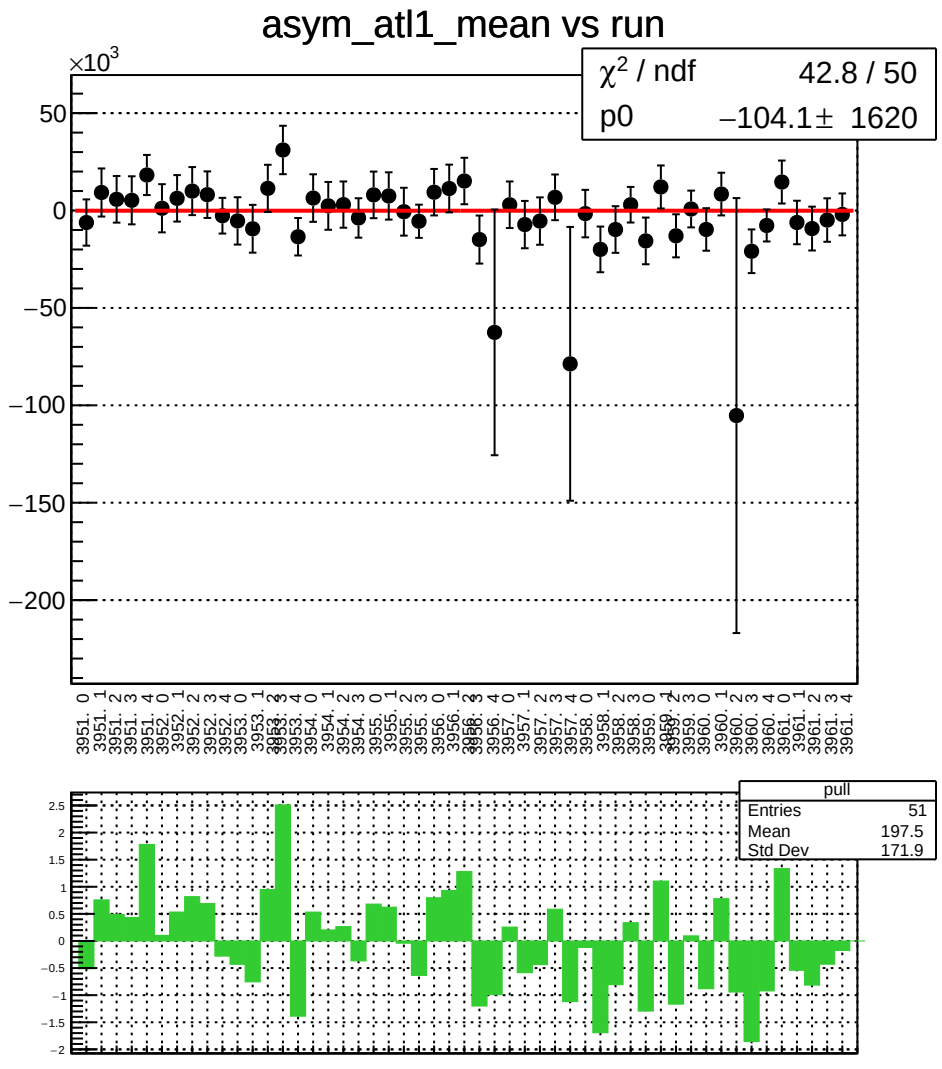

pull1D
Entries 51
Mean −0.07143
Std Dev 1.017

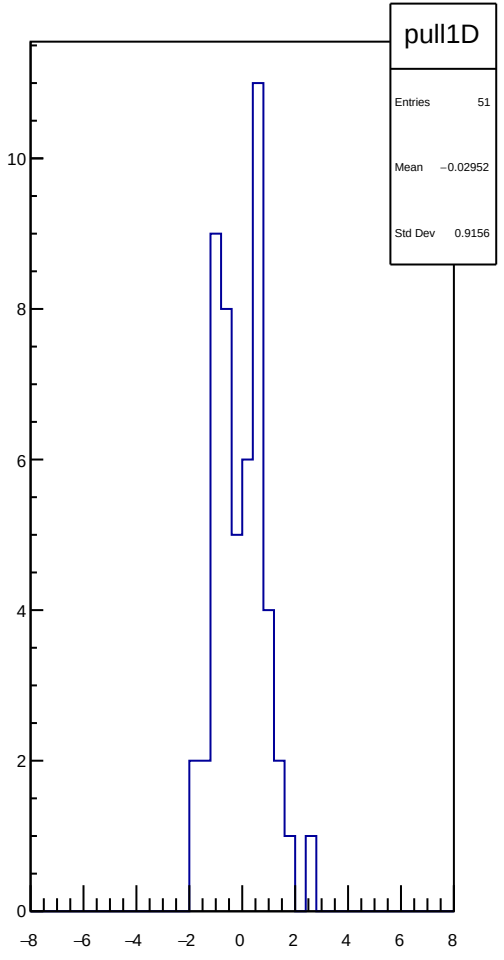

reg_asym_atl1_rms vs run
χ² / ndf 7.041e+04 / 50
p0 470.1 ± 0.4784
10000
8000
6000
4000
2000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

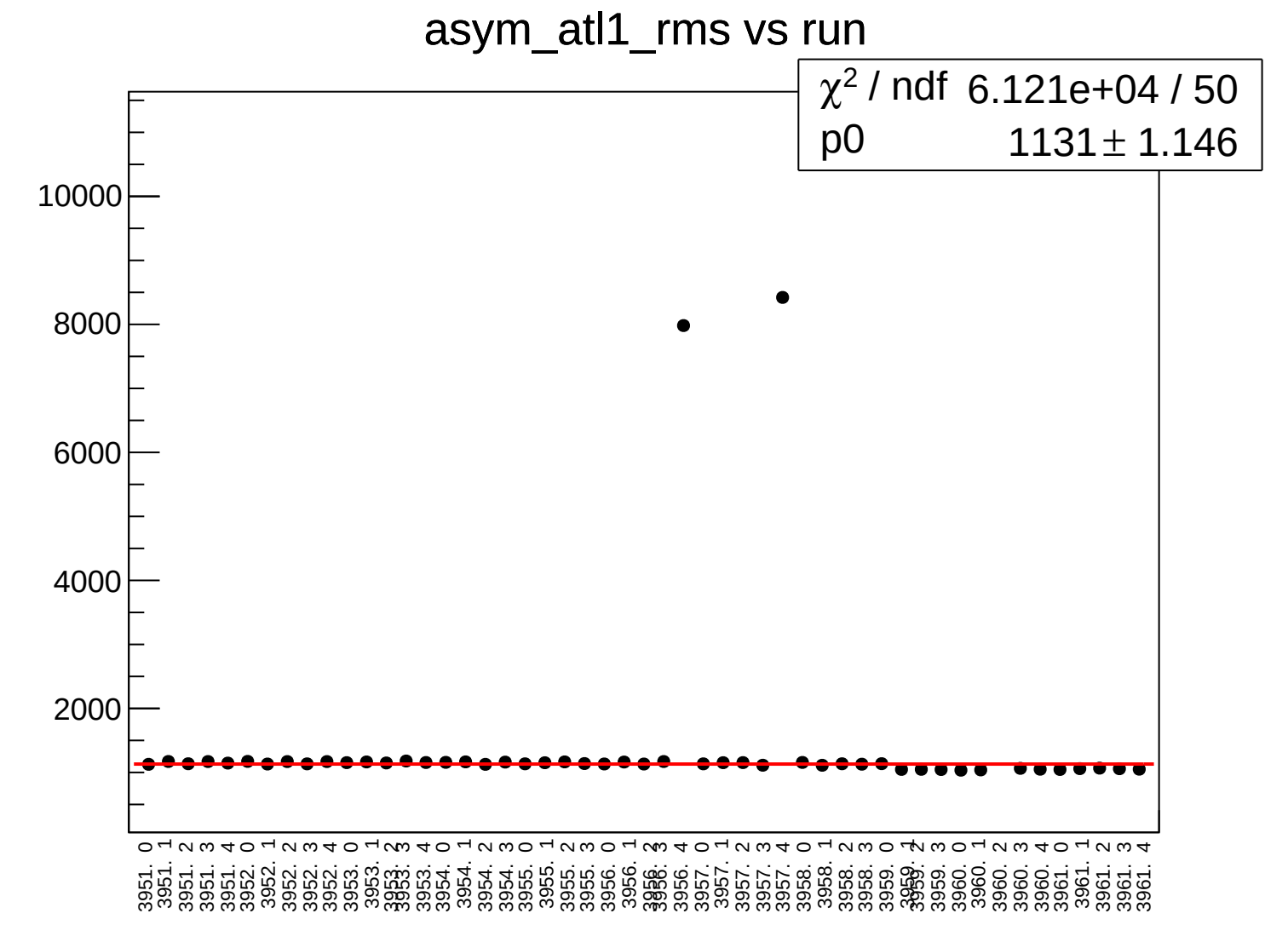

asym_atl1_correction_mean vs run
χ² / ndf 37.38 / 50
p0 1698 ± 1415
pull
Entries 51
Mean −75.3
Std Dev 96.13

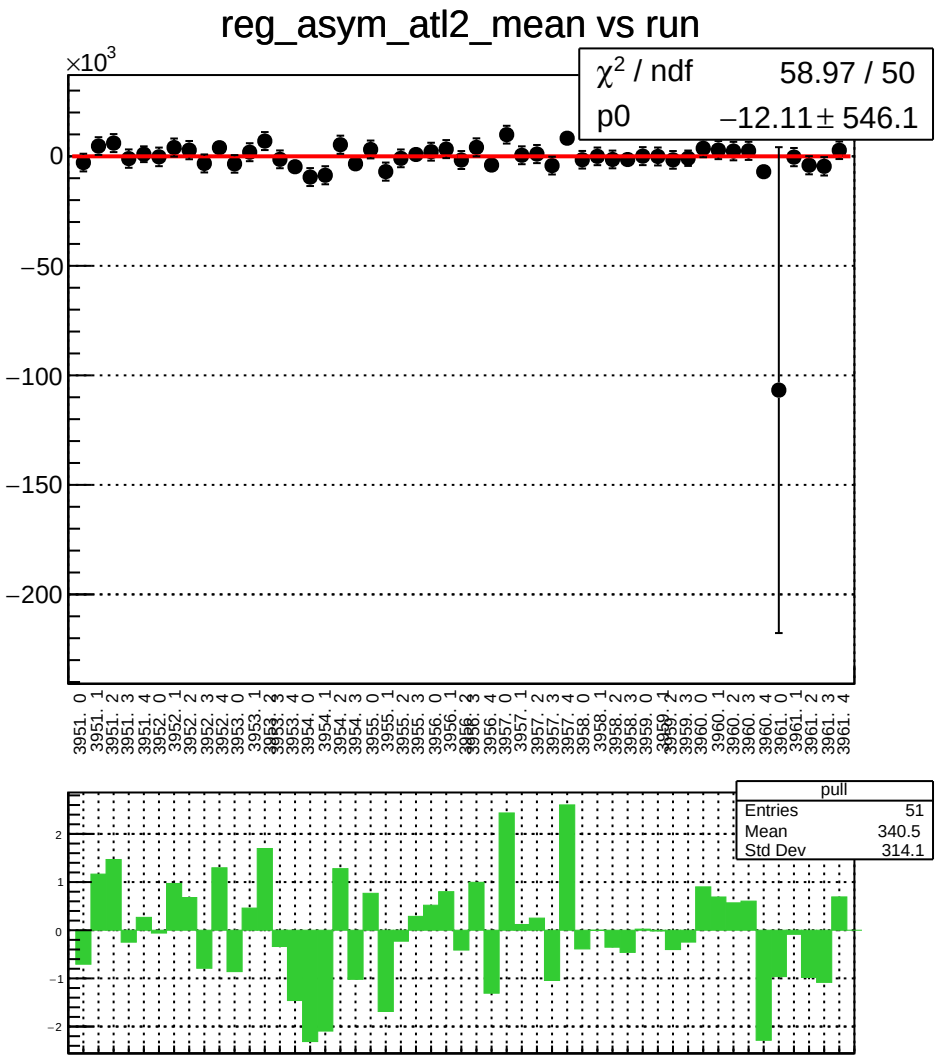

pull1D
Entries 51
Mean −0.03484
Std Dev 0.8554

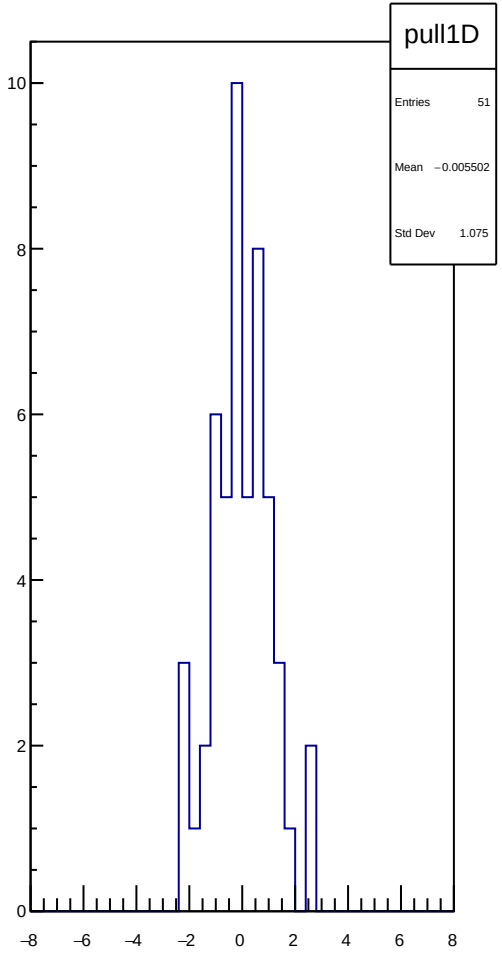

asym_atl1_correction_rms vs run
χ² / ndf 2453 / 50
p0 1017 ± 1
1100
1080
1060
1040
1020
1000
980
960
940
920
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

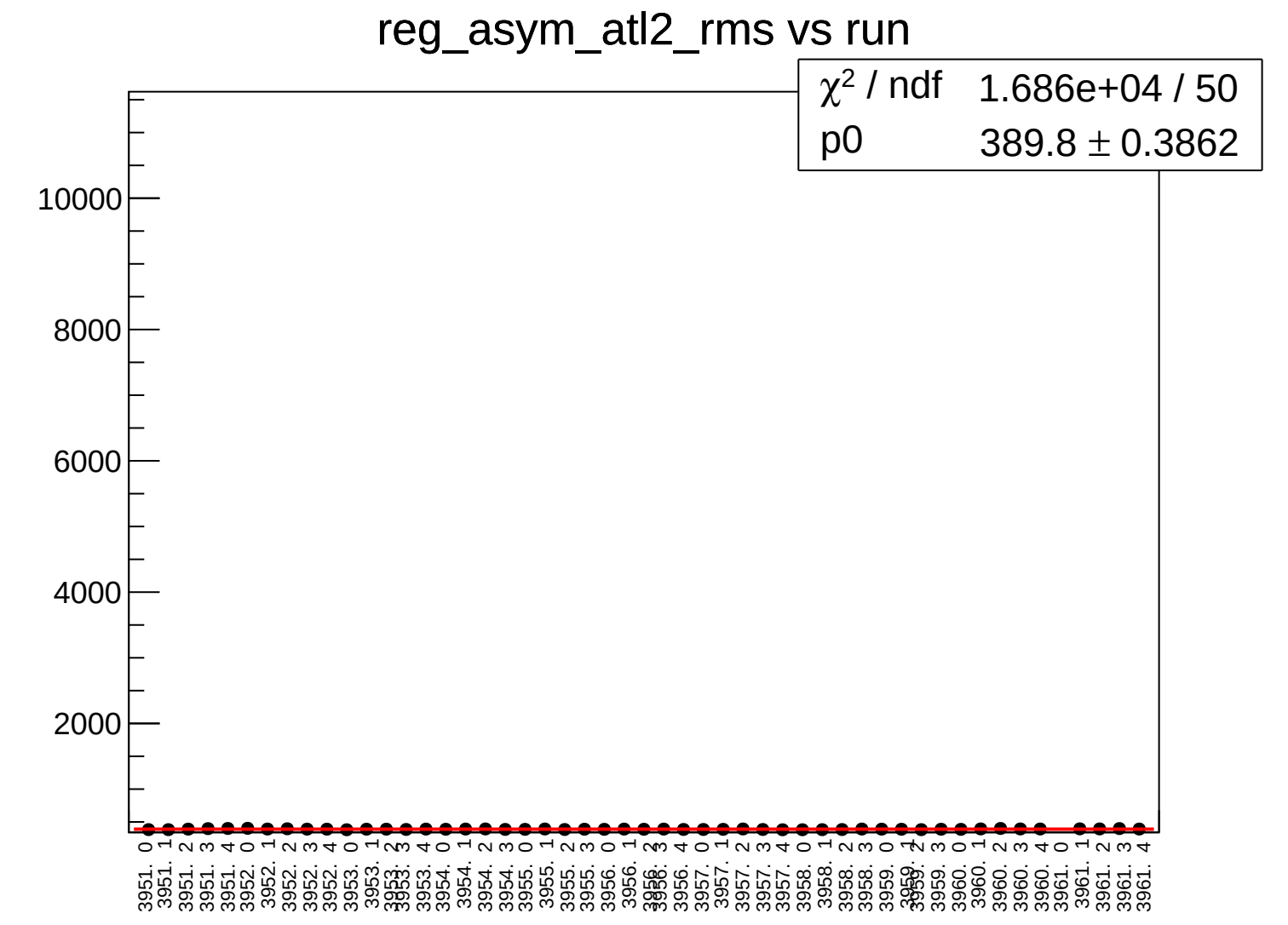

asym_atl1_mean vs run
χ² / ndf 42.8 / 50
p0 −104.1± 1620
pull
Entries 51
Mean 197.5
Std Dev 171.9

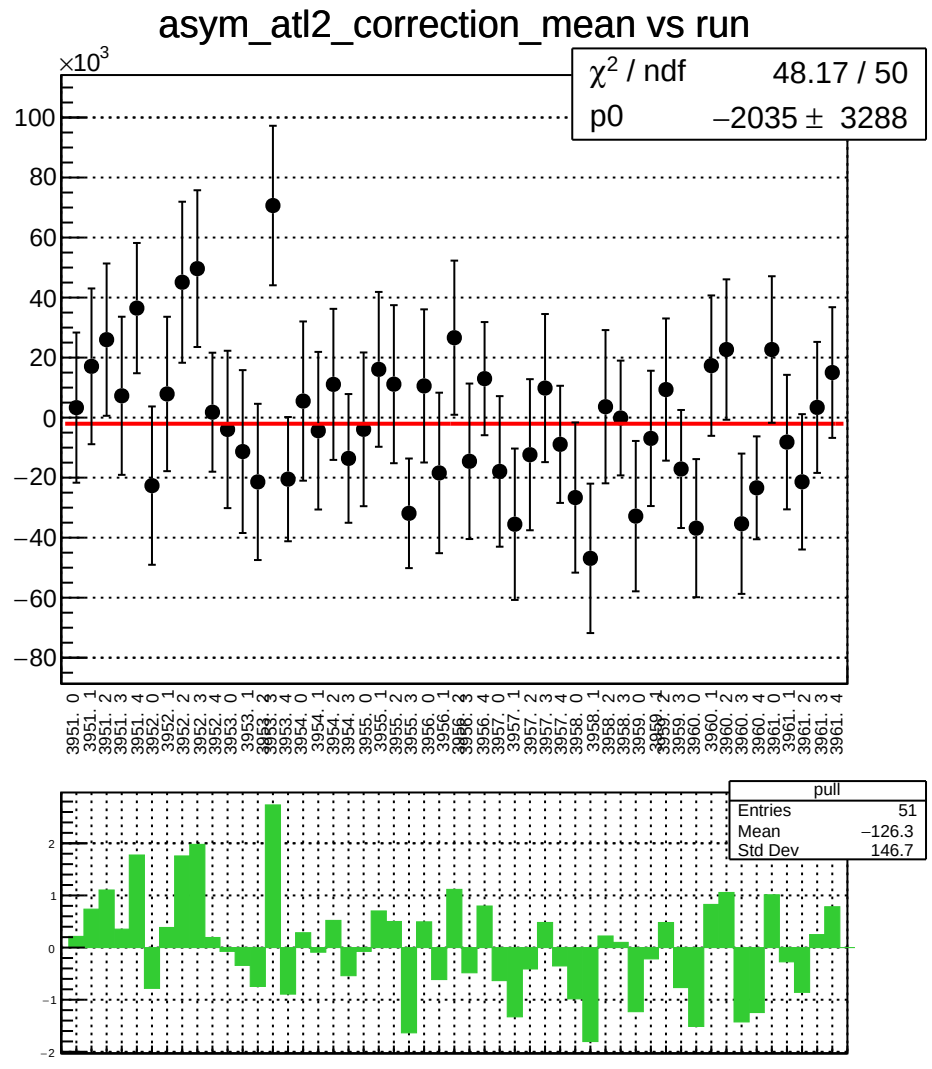

pull1D
Entries 51
Mean −0.02952
Std Dev 0.9156

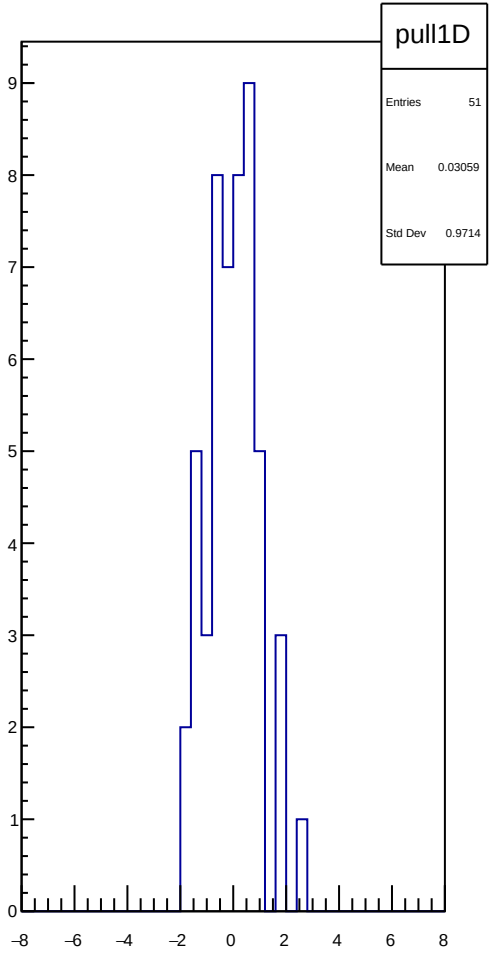

asym_atl1_rms vs run
χ² / ndf 6.121e+04 / 50
p0 1131 ± 1.146
10000
8000
6000
4000
2000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

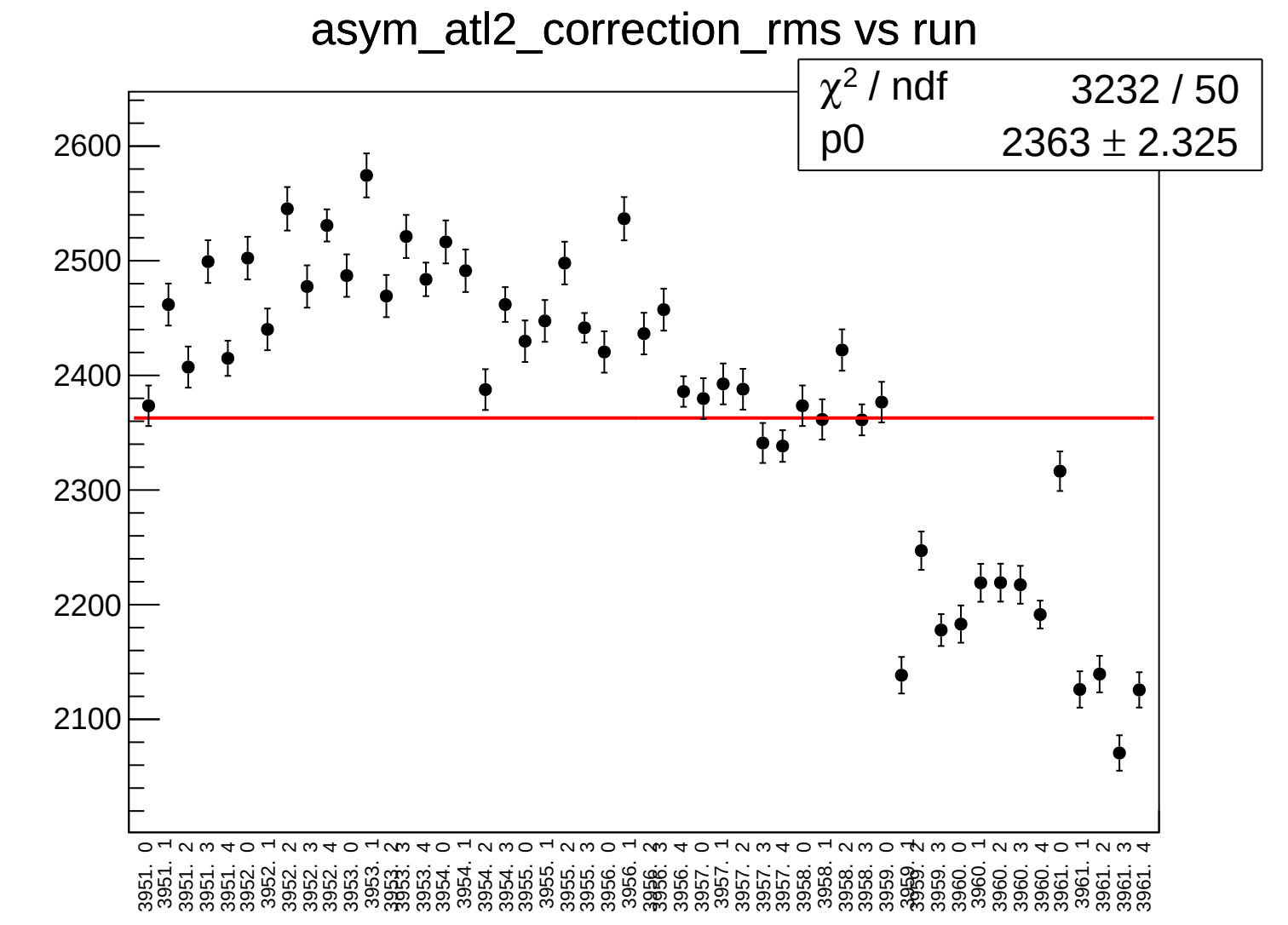

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 58.97 / 50
p0 −12.11 ± 546.1
pull
Entries 51
Mean 340.5
Std Dev 314.1

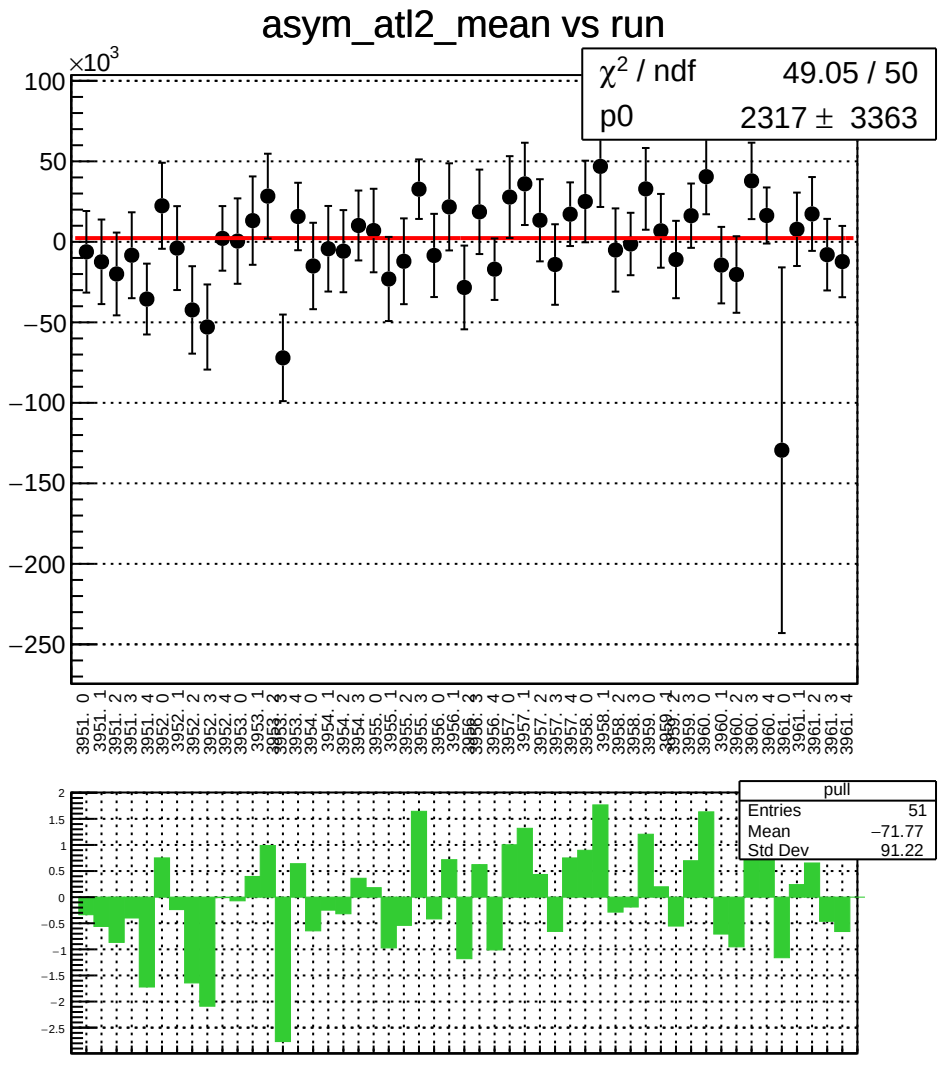

pull1D
Entries 51
Mean −0.005502
Std Dev 1.075

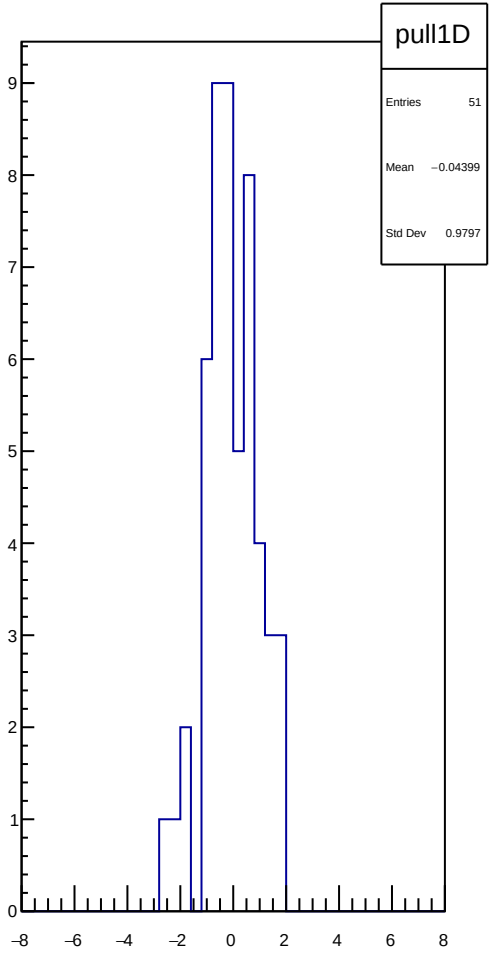

reg_asym_atl2_rms vs run
χ² / ndf 1.686e+04 / 50
p0 389.8 ± 0.3862
10000
8000
6000
4000
2000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

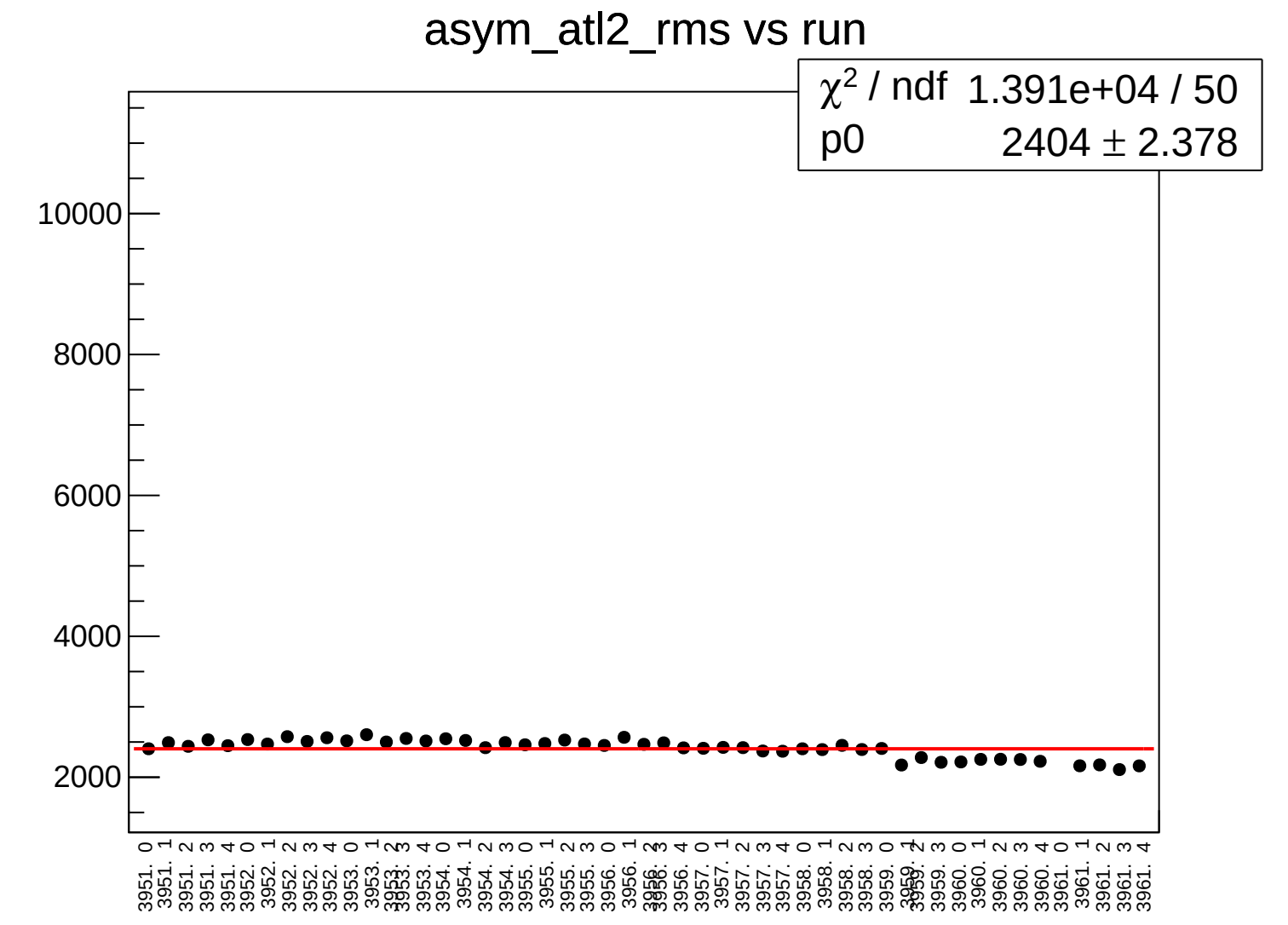

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 48.17 / 50
p0 −2035 ± 3288
pull
Entries 51
Mean −126.3
Std Dev 146.7

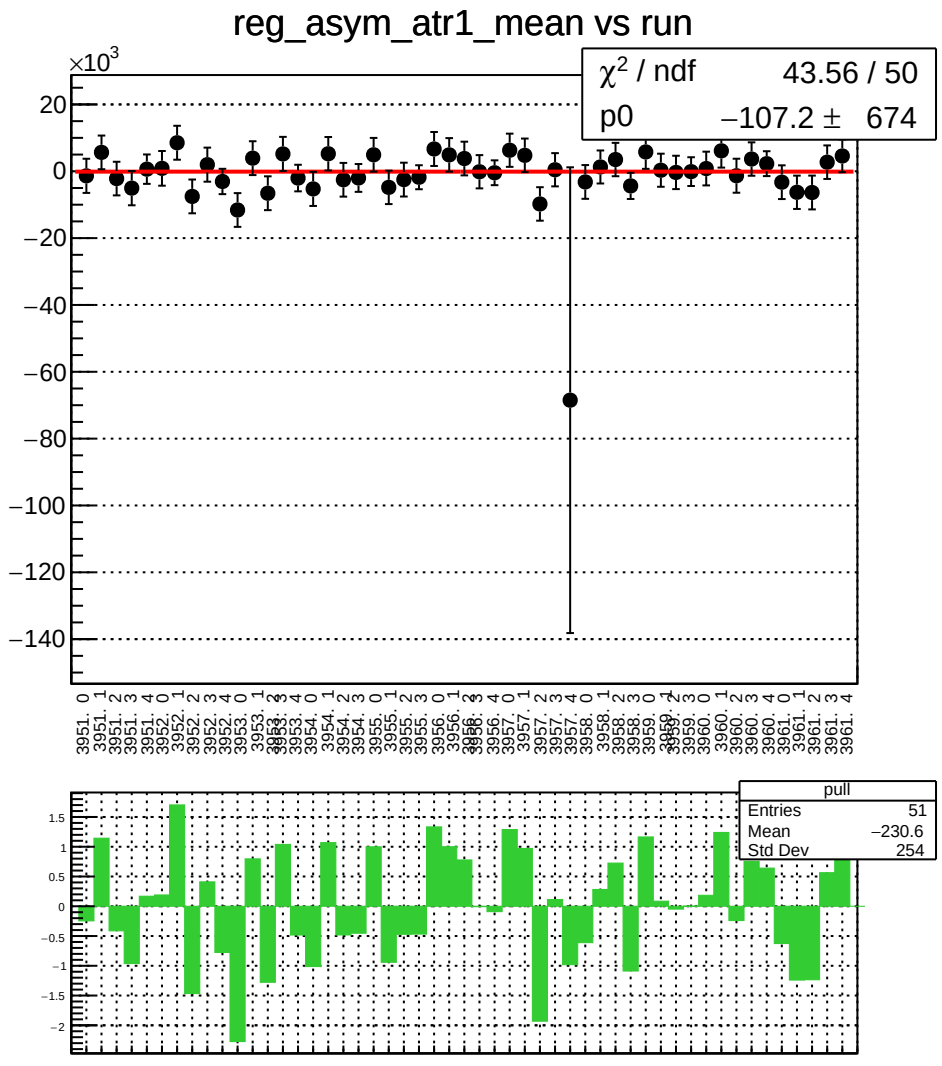

pull1D
Entries 51
Mean 0.03059
Std Dev 0.9714

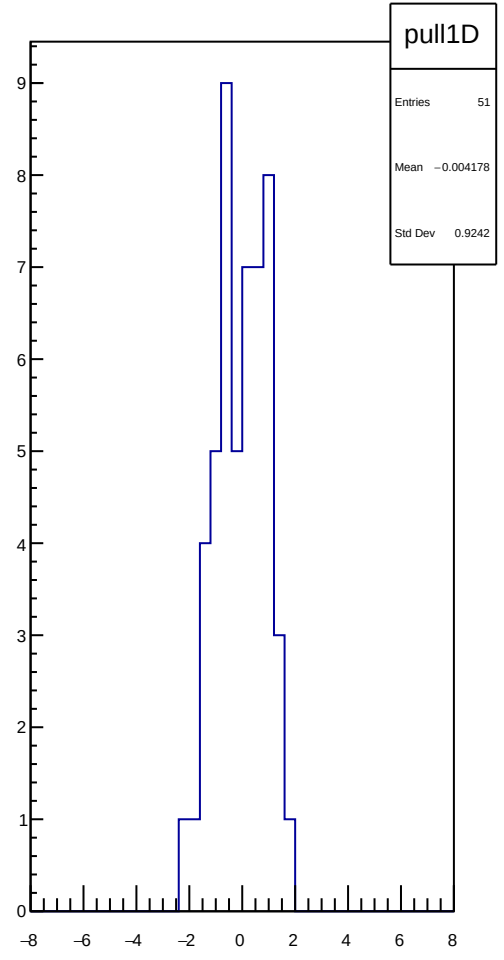

asym_atl2_correction_rms vs run
χ² / ndf 3232 / 50
p0 2363 ± 2.325
2600
2500
2400
2300
2200
2100
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

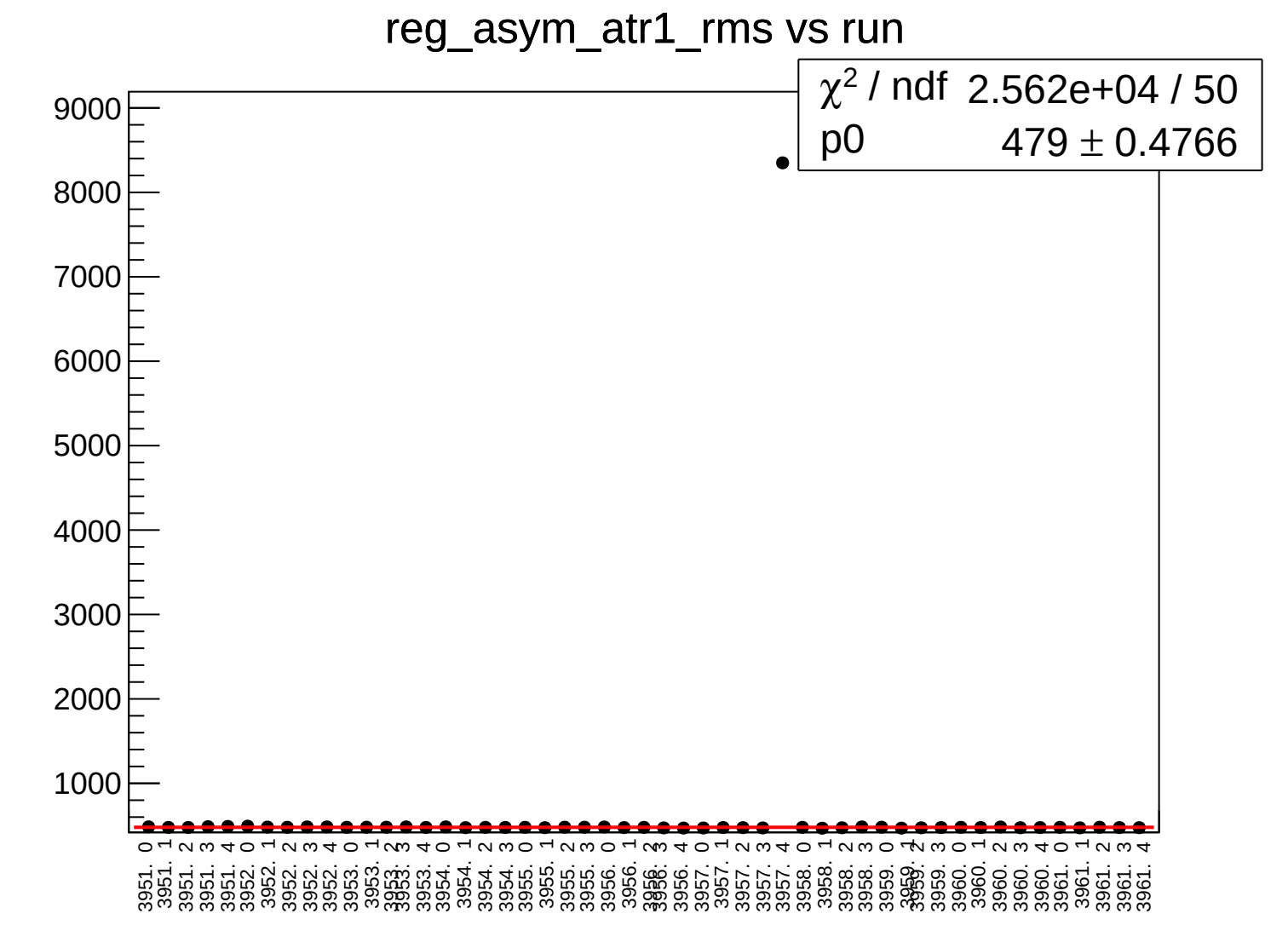

asym_atl2_mean vs run
×10^3
χ^2 / ndf 49.05 / 50
p0 2317 ± 3363
pull
Entries 51
Mean −71.77
Std Dev 91.22


pull1D
Entries 51
Mean −0.04399
Std Dev 0.9797


asym_atl2_rms vs run
χ² / ndf 1.391e+04 / 50
p0 2404 ± 2.378
10000
8000
6000
4000
2000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


reg_asym_atr1_mean vs run
×10^3
χ² / ndf 43.56 / 50
p0 −107.2 ± 674
pull
Entries 51
Mean −230.6
Std Dev 254


pull1D
Entries 51
Mean −0.004178
Std Dev 0.9242


reg_asym_atr1_rms vs run
χ^2 / ndf 2.562e+04 / 50
p0 479 ± 0.4766
9000
8000
7000
6000
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
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3960. 2
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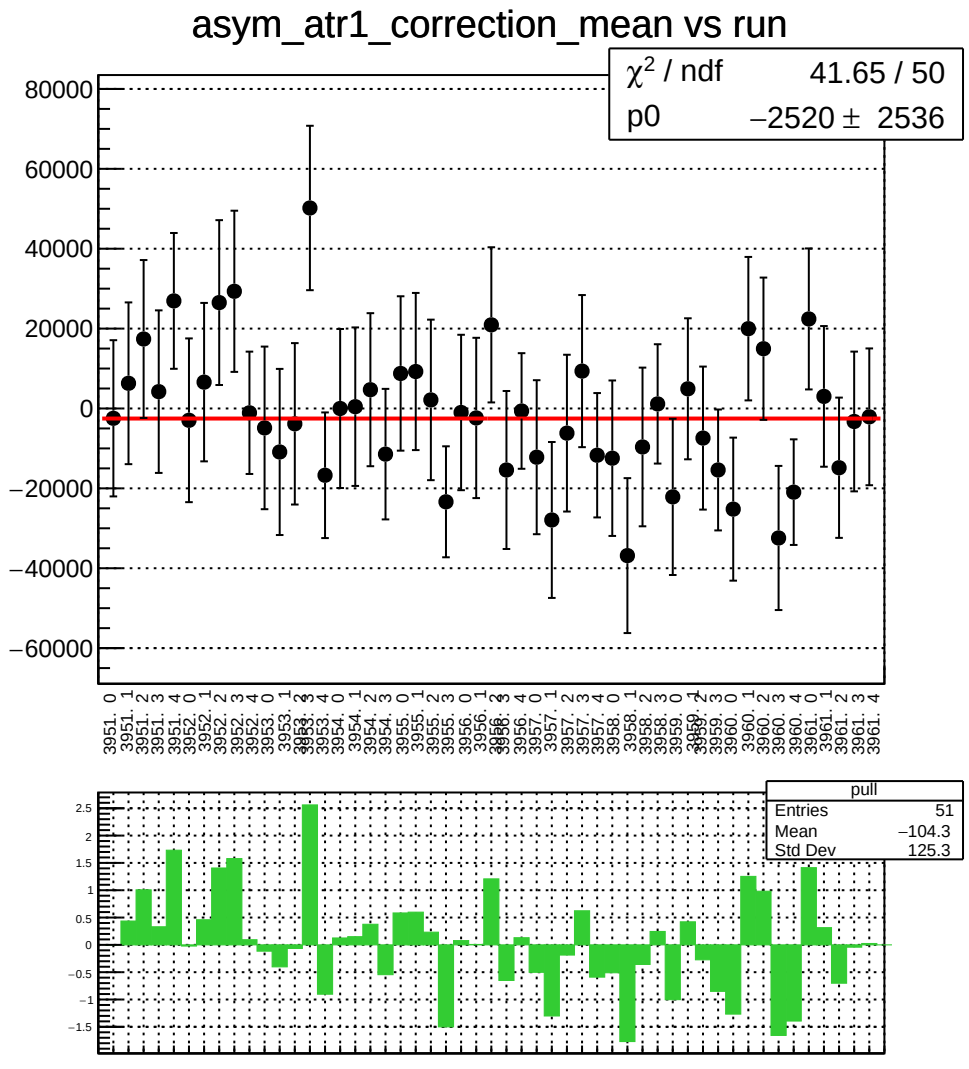
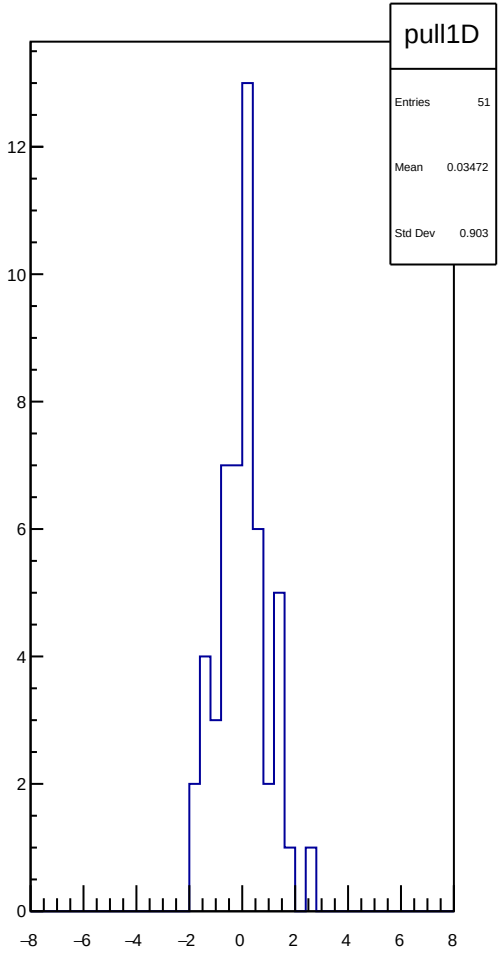
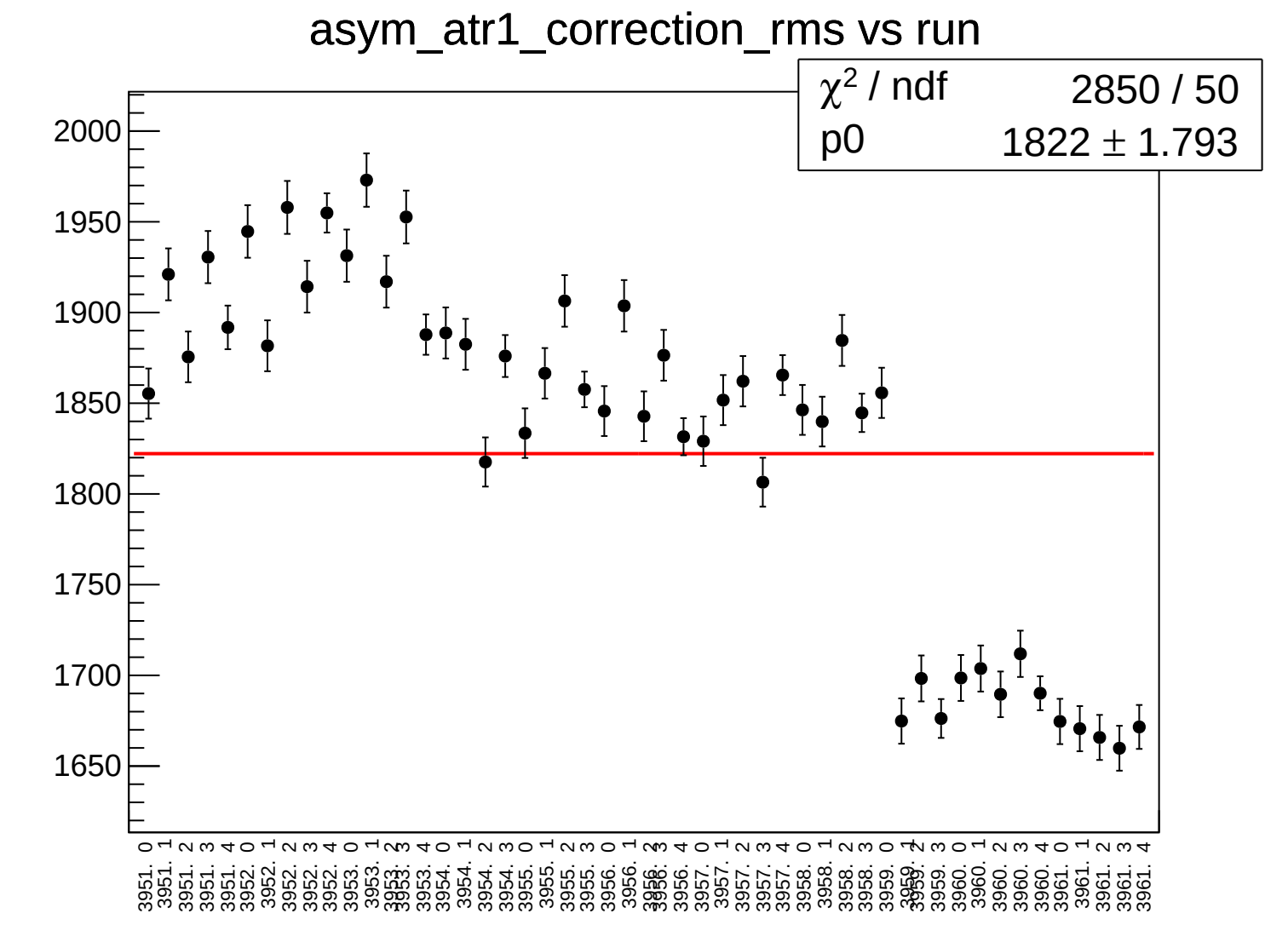
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_atr1_correction_mean vs run
χ² / ndf 41.65 / 50
p0 −2520 ± 2536
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −104.3
Std Dev 125.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.03472
Std Dev 0.903
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_correction_rms vs run
χ² / ndf 2850 / 50
p0 1822 ± 1.793
2000
1950
1900
1850
1800
1750
1700
1650
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 4
3954. 0
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3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
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3956. 4
3957. 0
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3957. 2
3957. 3
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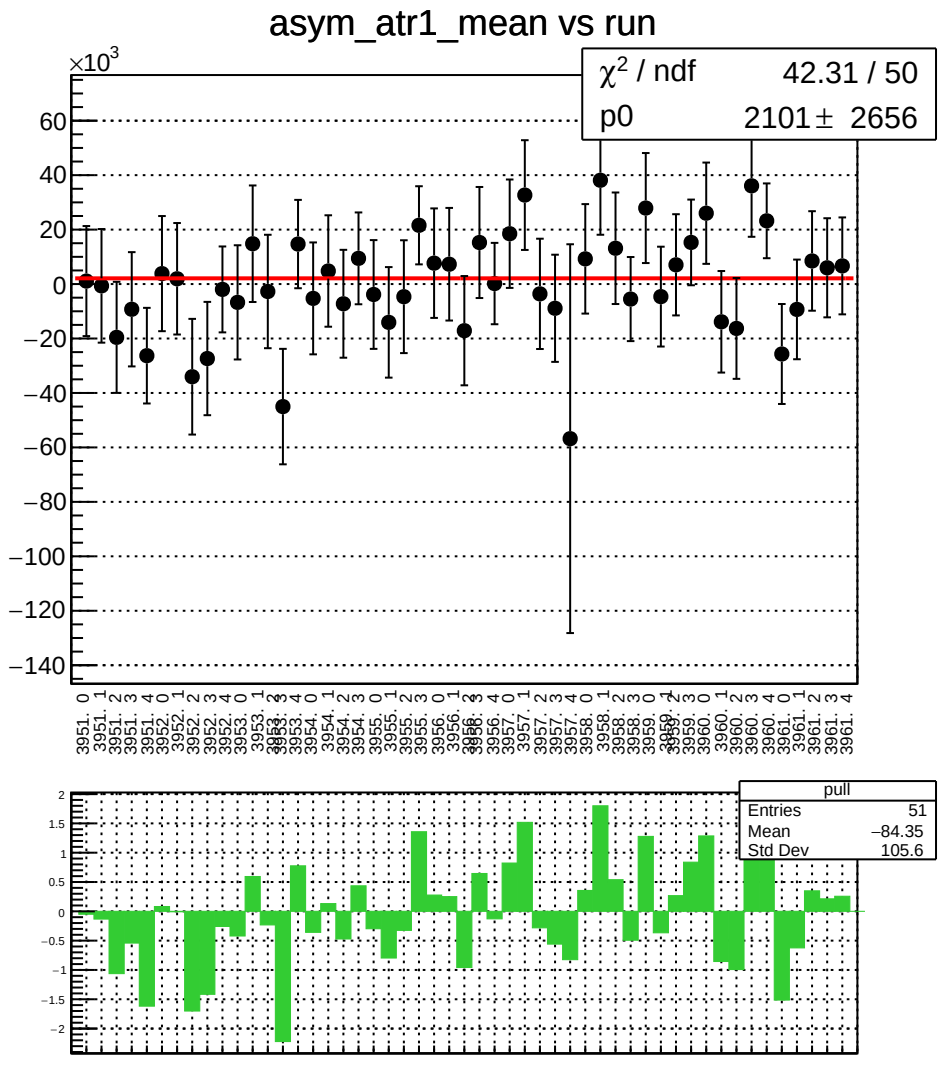
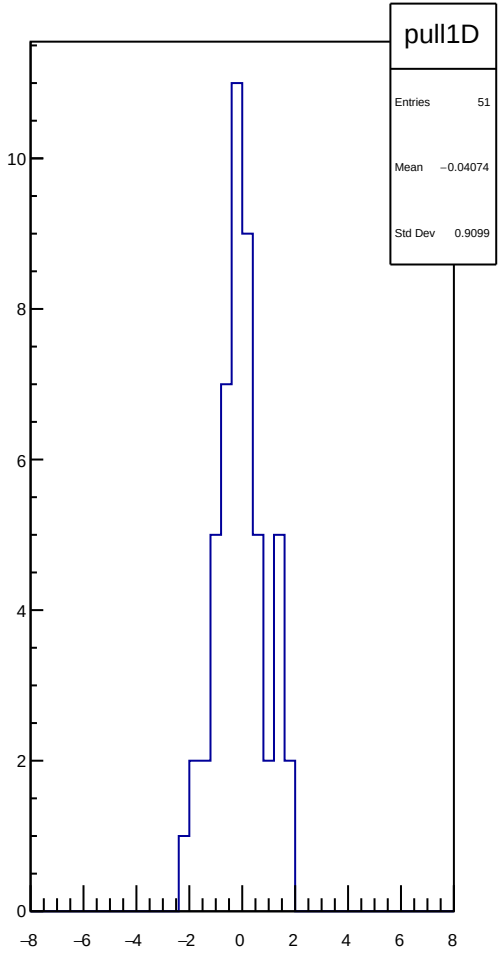
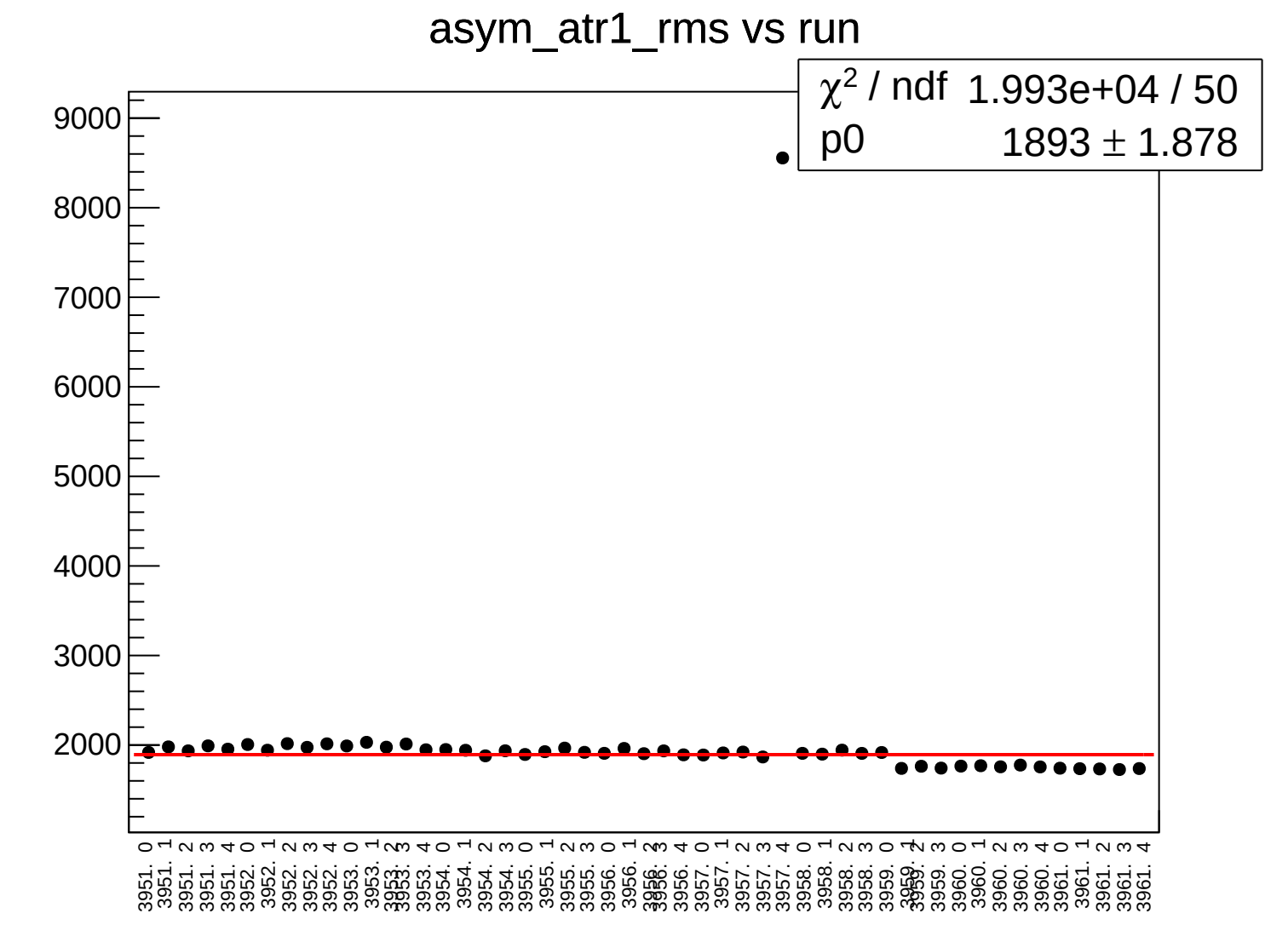
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_atr1_mean vs run
×10^3
χ² / ndf 42.31 / 50
p0 2101 ± 2656
pull
Entries 51
Mean −84.35
Std Dev 105.6


pull1D
Entries 51
Mean −0.04074
Std Dev 0.9099


asym_atr1_rms vs run
χ² / ndf 1.993e+04 / 50
p0 1893 ± 1.878
9000
8000
7000
6000
5000
4000
3000
2000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
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3953. 3
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3954. 0
3954. 1
3954. 2
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3955. 3
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3956. 1
3956. 2
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3957. 1
3957. 2
3957. 3
3957. 4
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3958. 2
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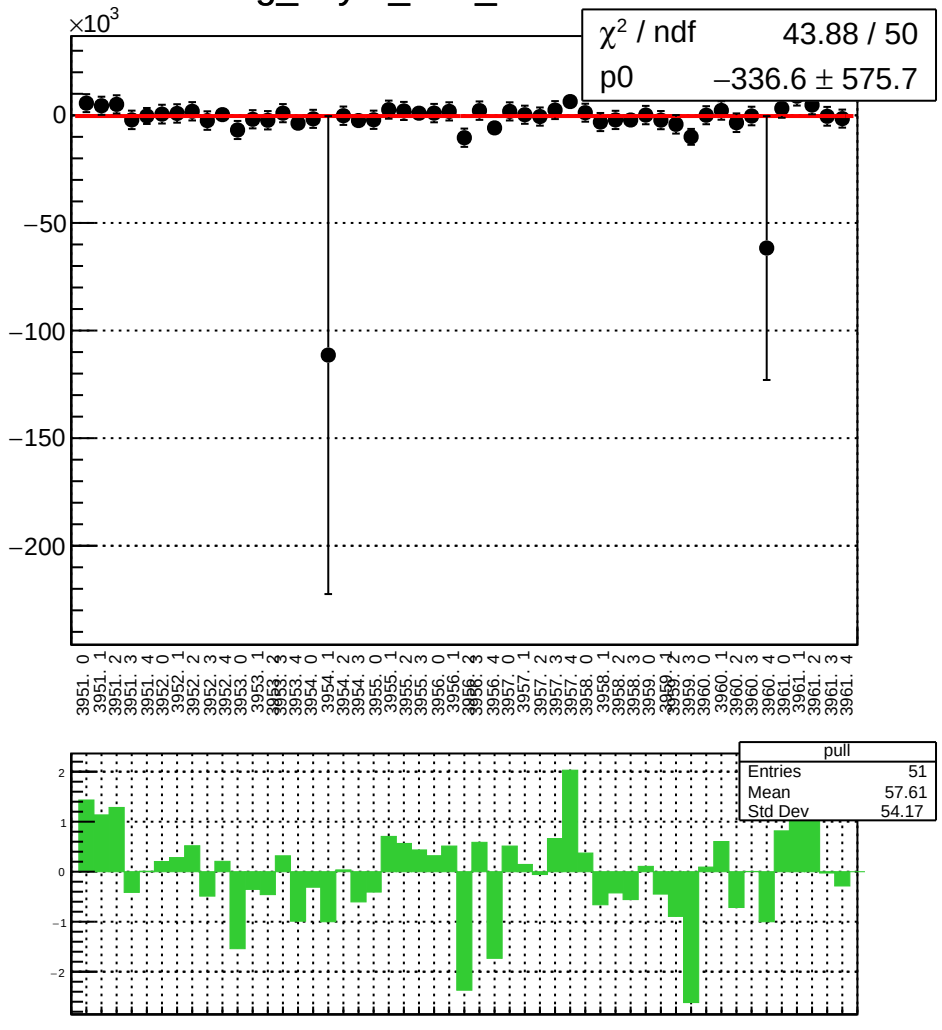
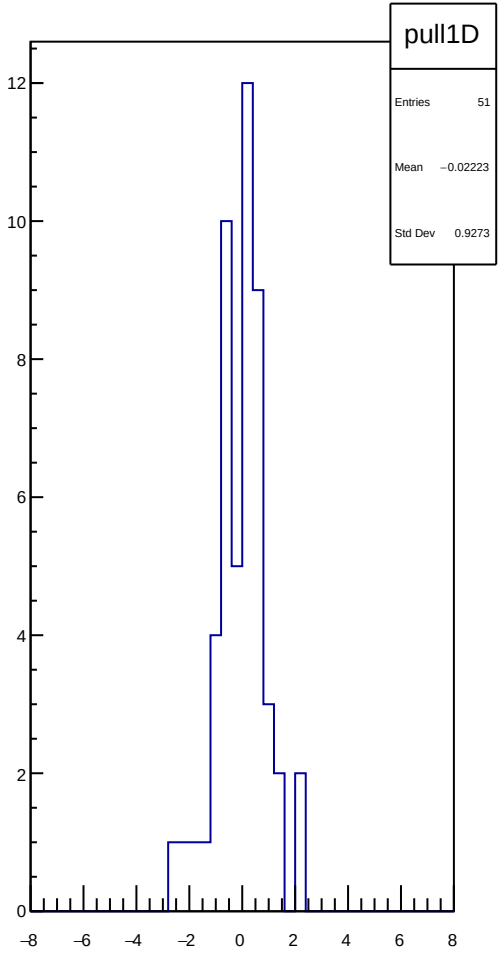
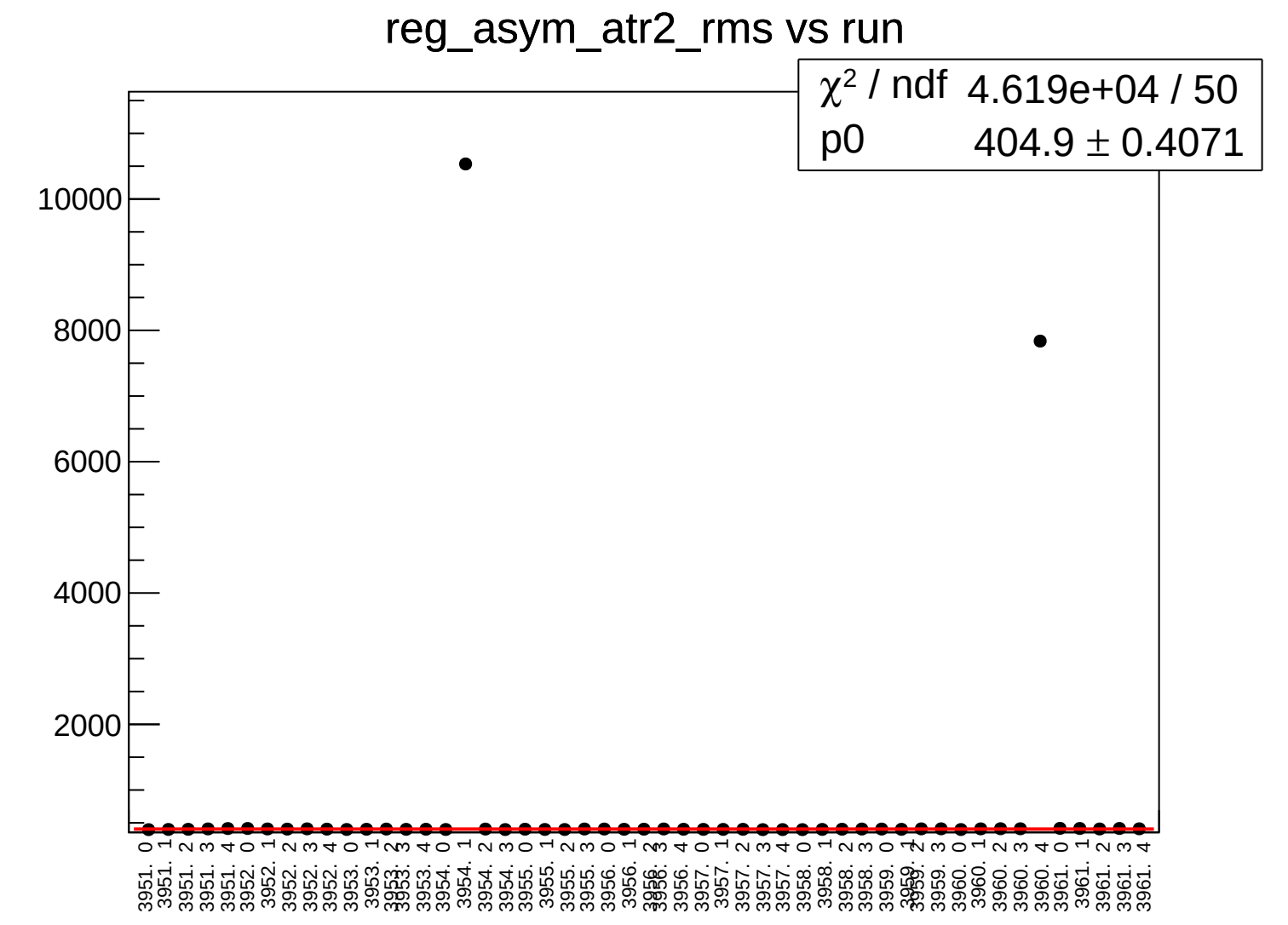
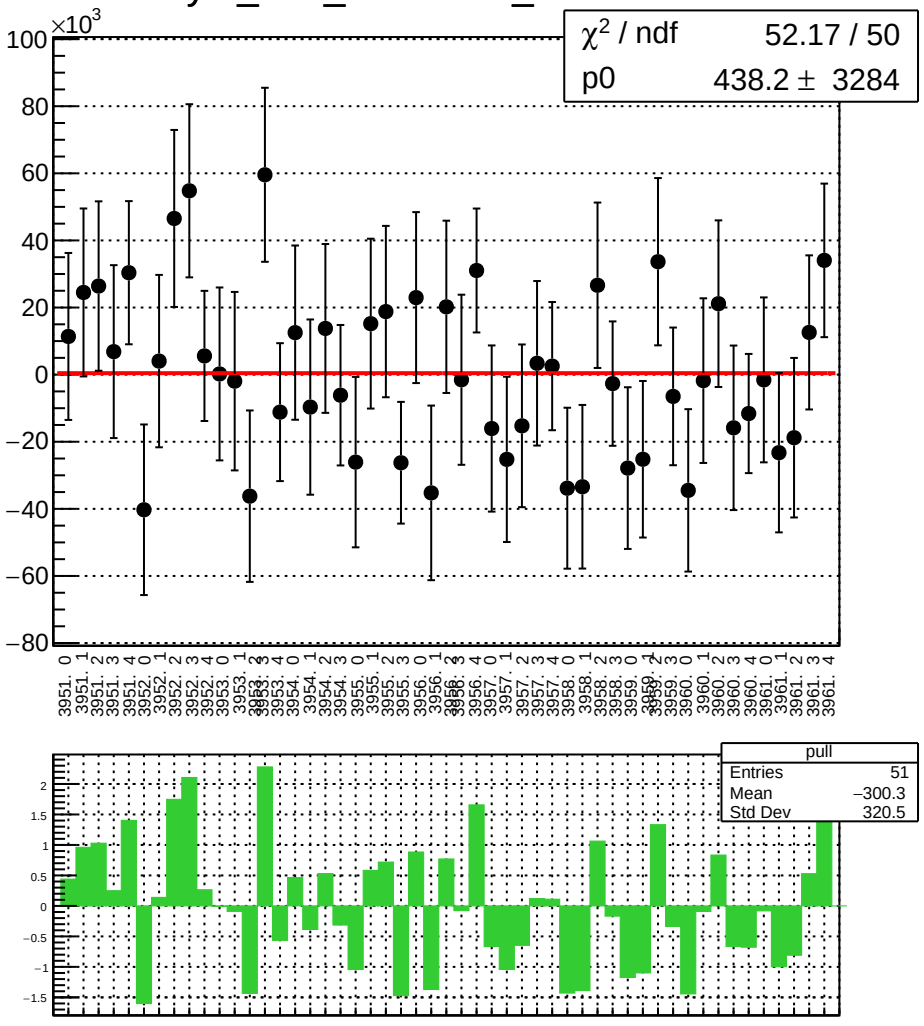
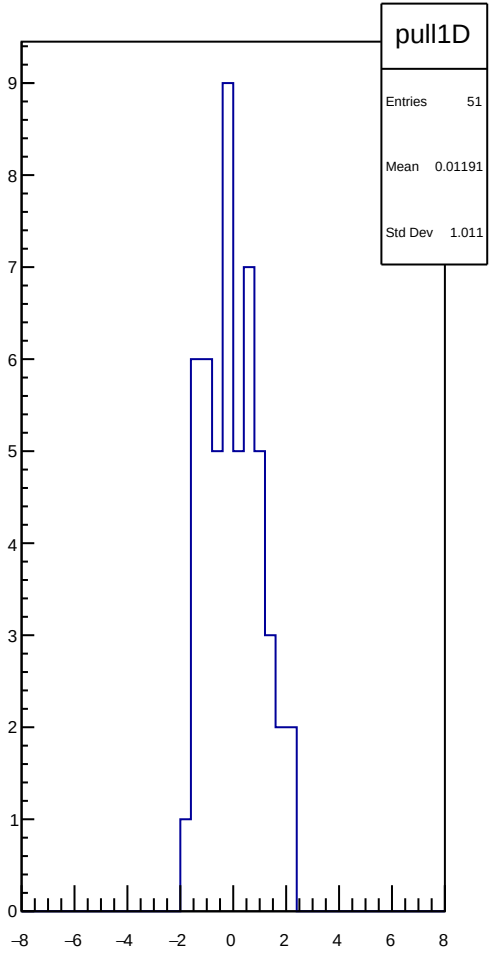
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

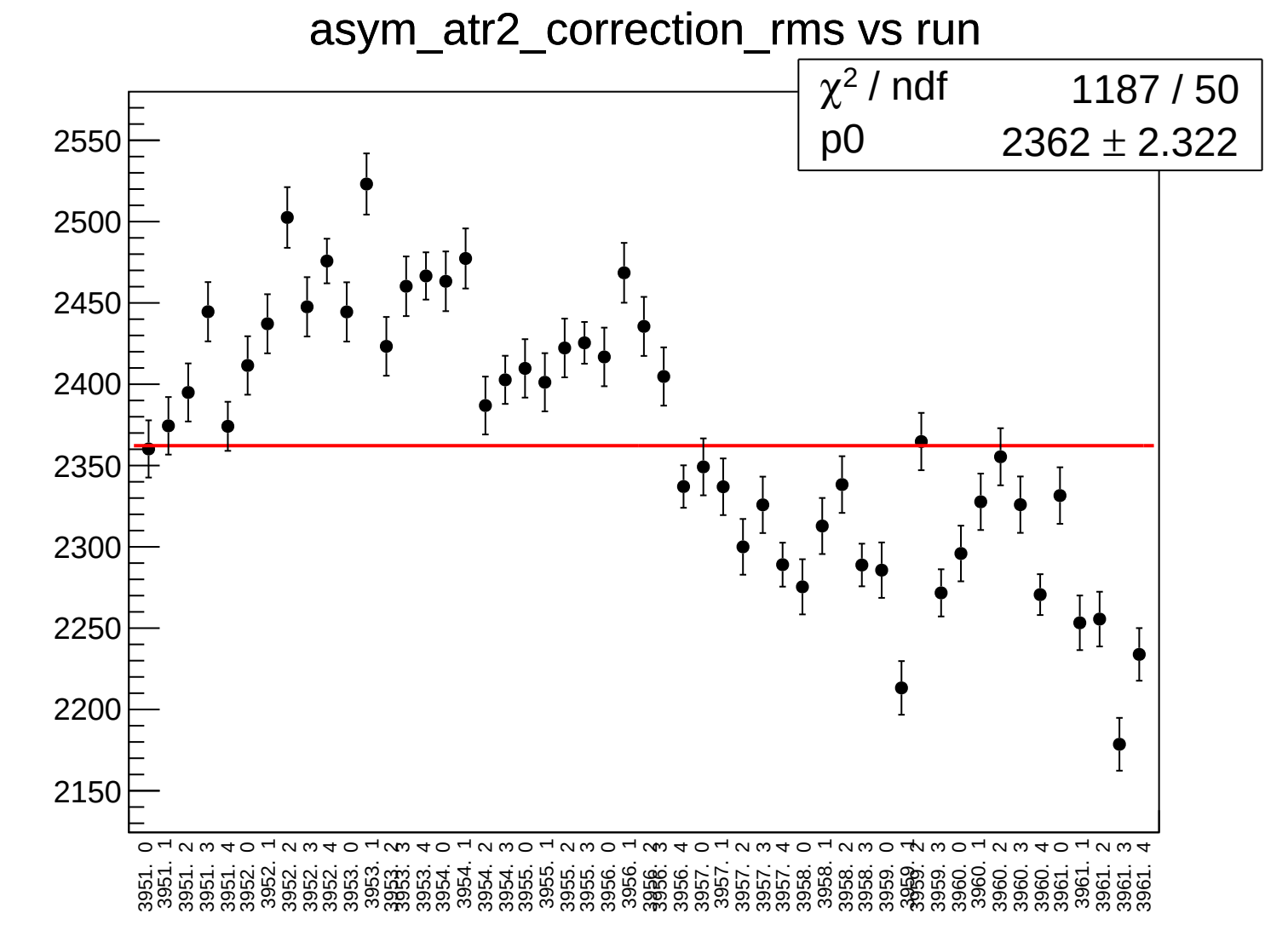

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 43.88 / 50
p0 −336.6 ± 575.7
pull
Entries 51
Mean 57.61
Std Dev 54.17

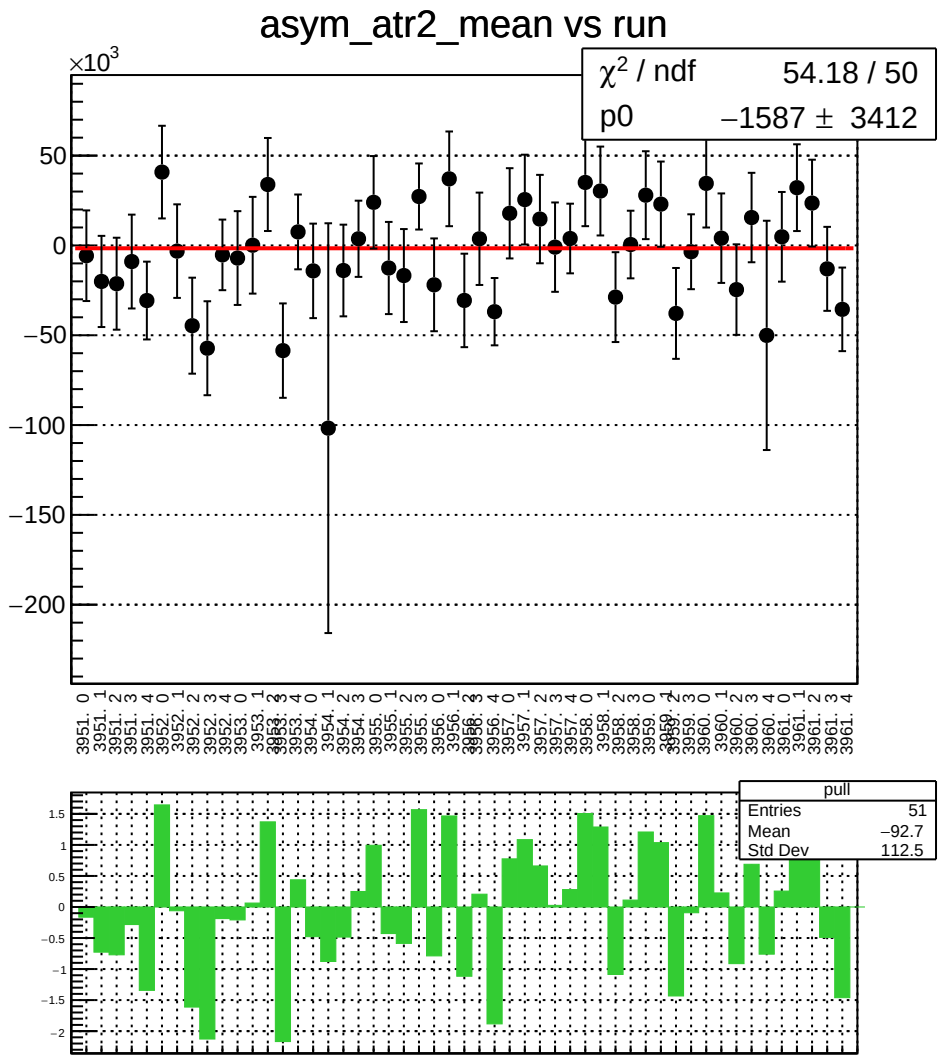

pull1D
Entries 51
Mean −0.02223
Std Dev 0.9273

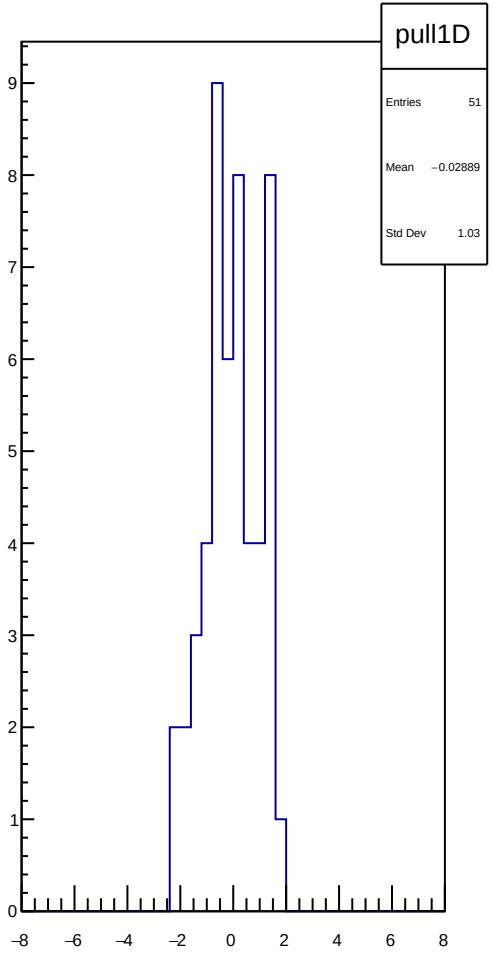

reg_asym_atr2_rms vs run
χ² / ndf 4.619e+04 / 50
p0 404.9 ± 0.4071
10000
8000
6000
4000
2000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

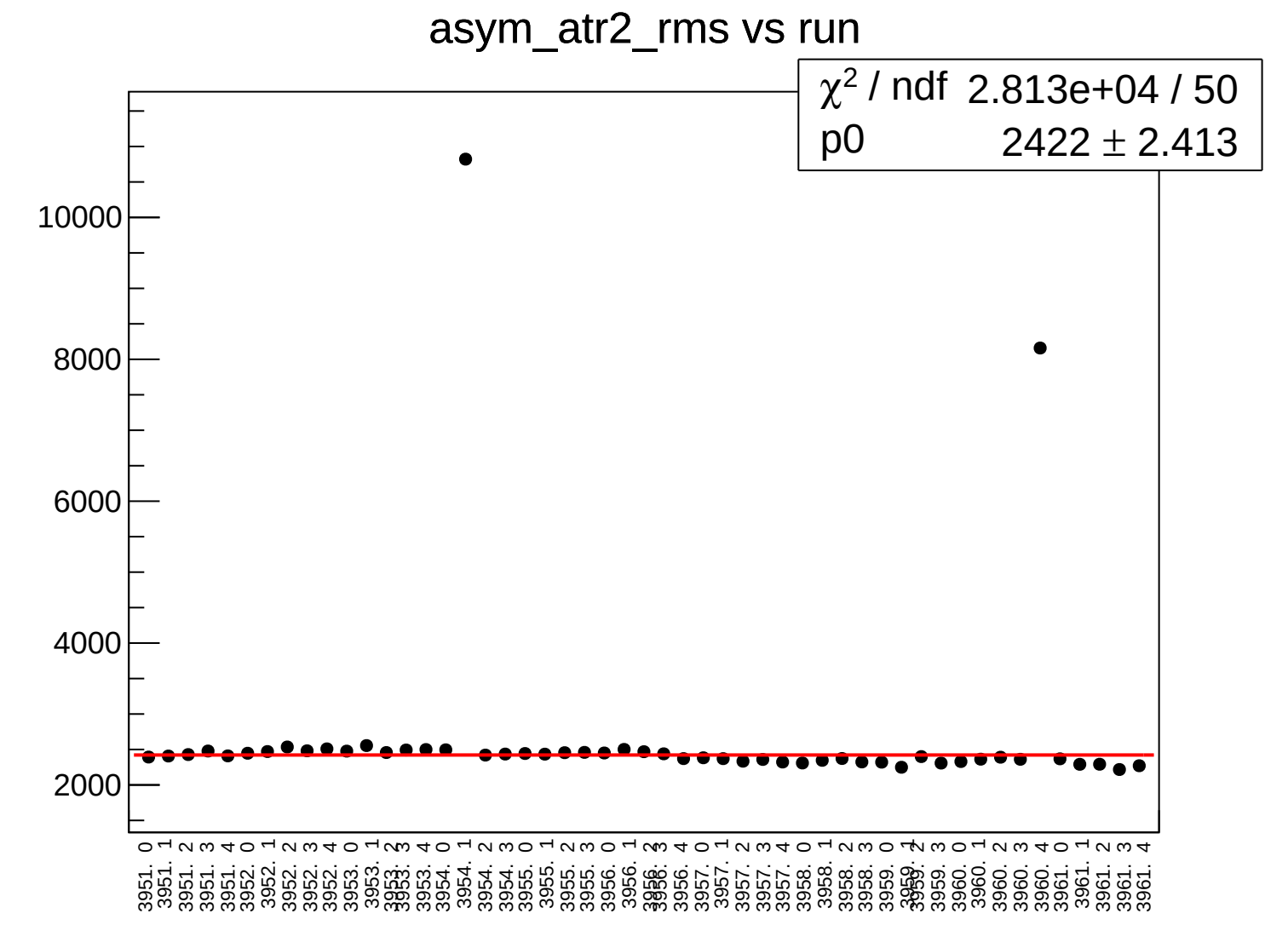

asym_atr2_correction_mean vs run
×10^3
χ^2 / ndf 52.17 / 50
p0 438.2 ± 3284
pull
Entries 51
Mean −300.3
Std Dev 320.5

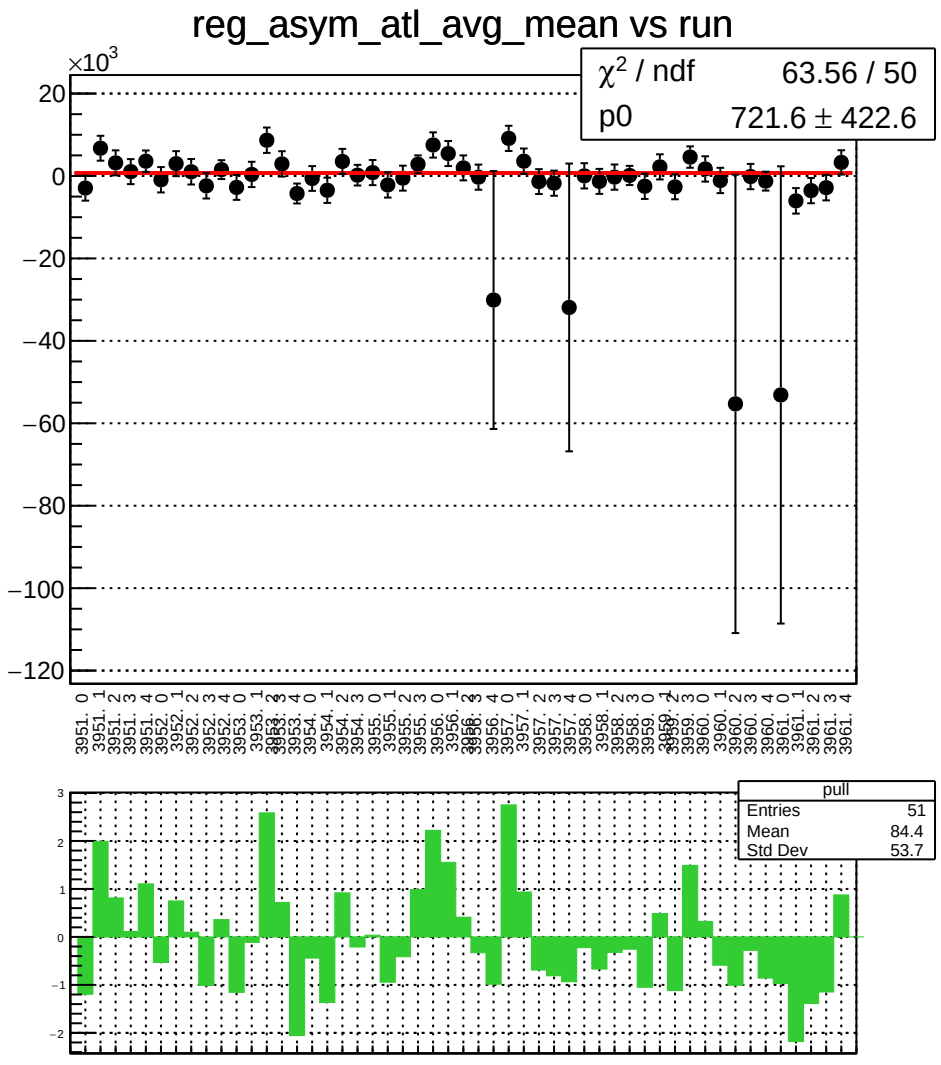

pull1D
Entries 51
Mean 0.01191
Std Dev 1.011

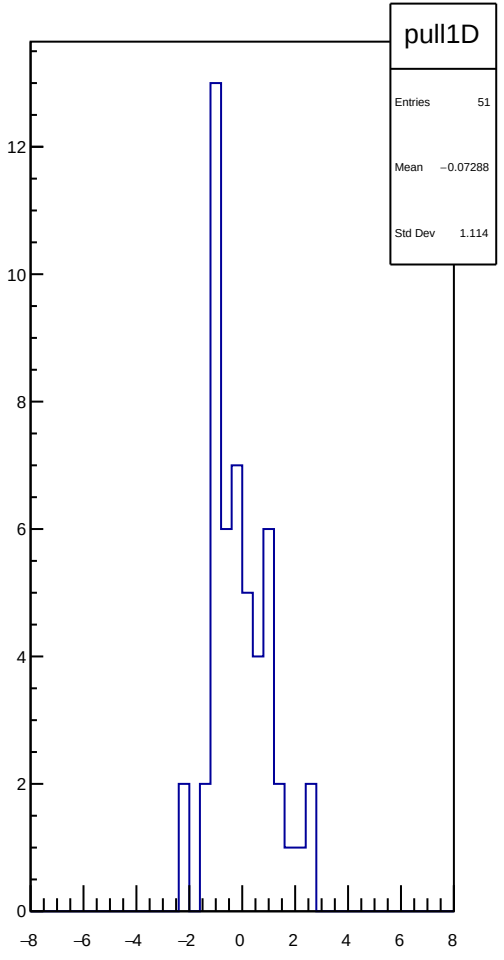

asym_atr2_correction_rms vs run
χ² / ndf 1187 / 50
p0 2362 ± 2.322
2550
2500
2450
2400
2350
2300
2250
2200
2150
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

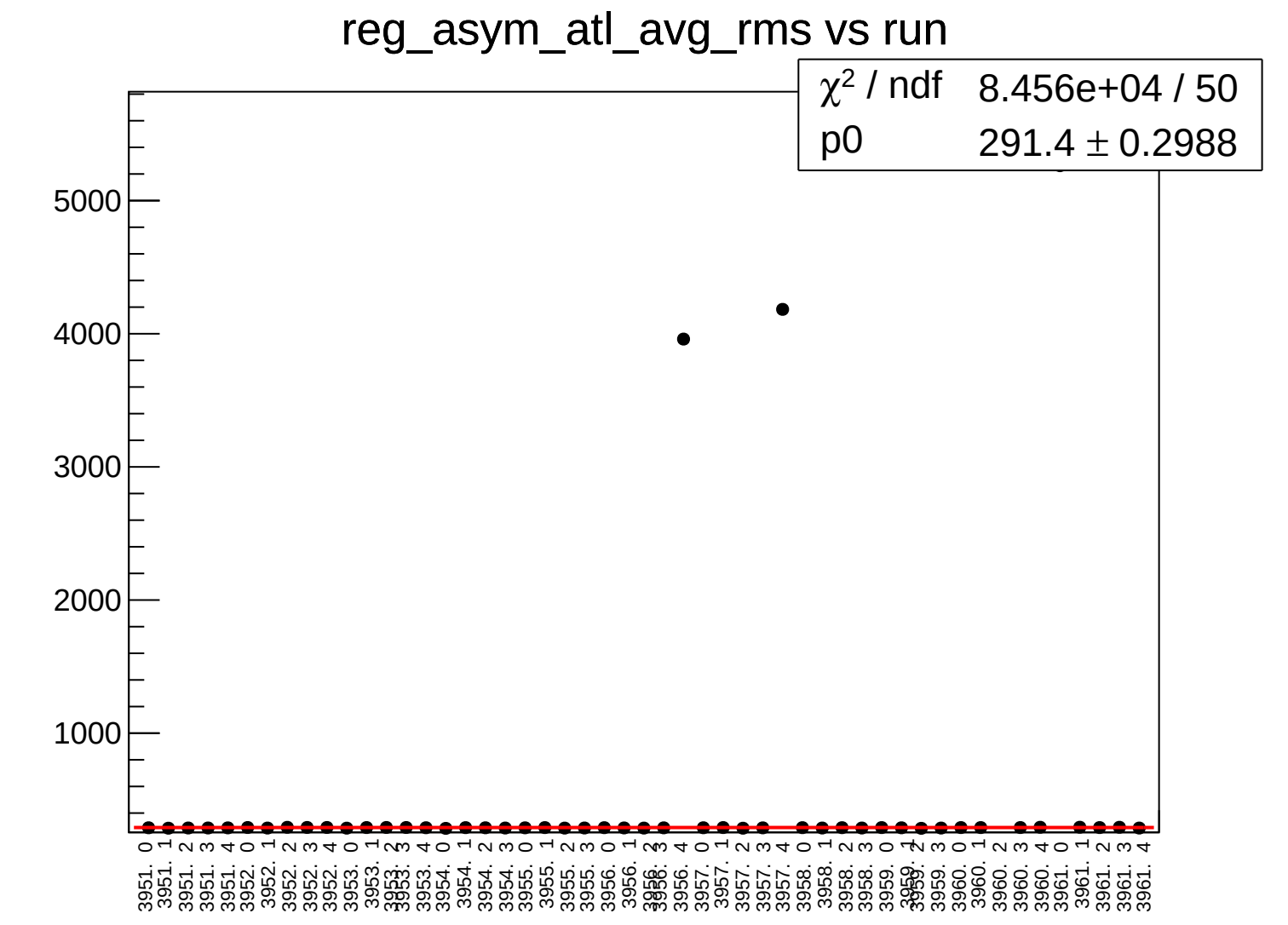

asym_atr2_mean vs run
×10^3
χ² / ndf 54.18 / 50
p0 −1587 ± 3412
50
0
−50
−100
−150
−200
pull
Entries 51
Mean −92.7
Std Dev 112.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

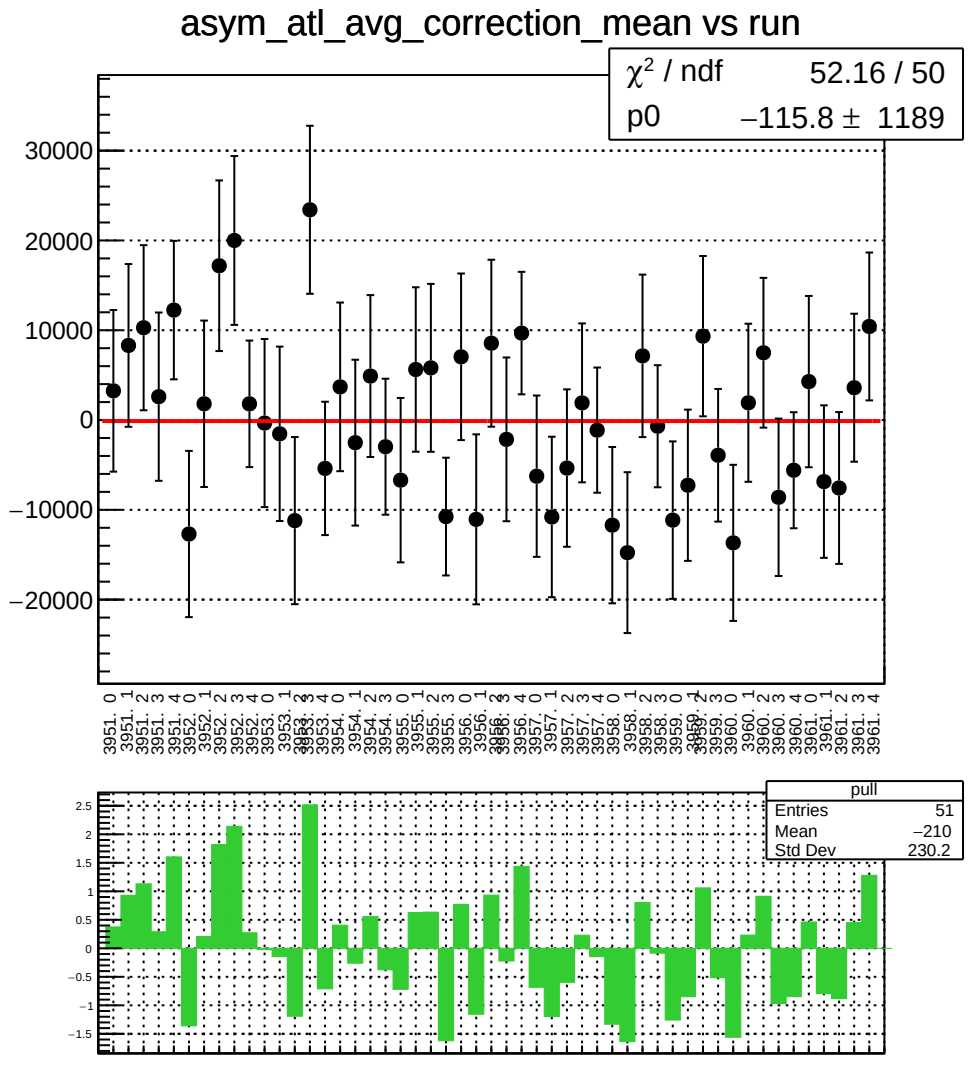

pull1D
Entries 51
Mean −0.02889
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

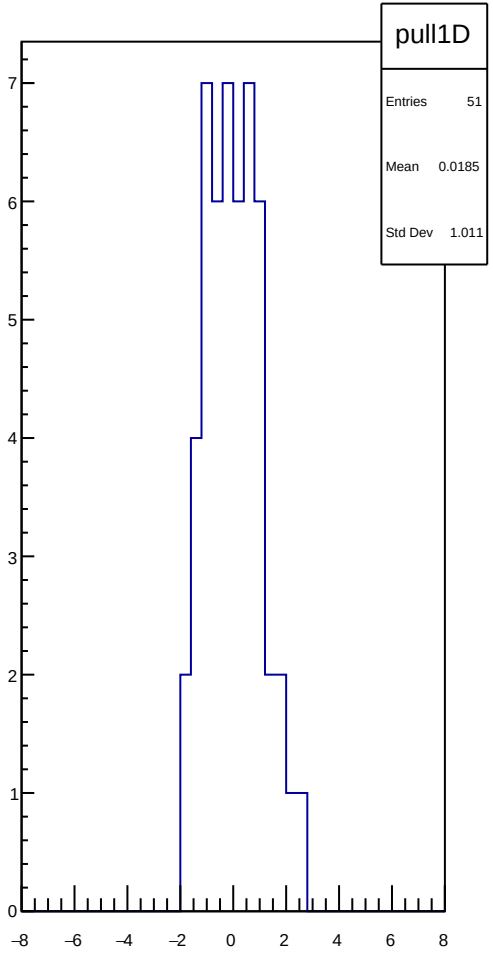

asym_atr2_rms vs run
χ² / ndf 2.813e+04 / 50
p0 2422 ± 2.413
10000
8000
6000
4000
2000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

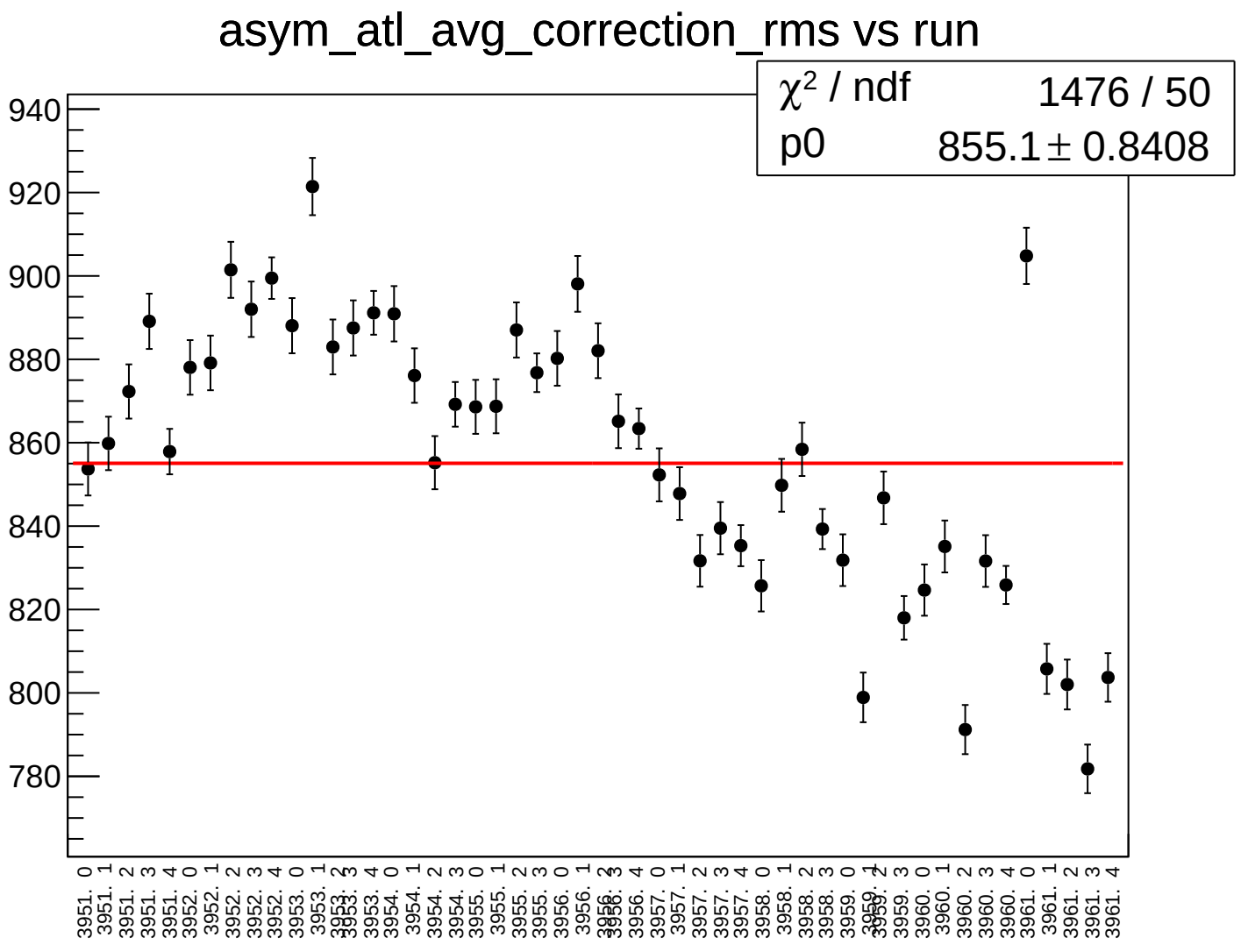

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 63.56 / 50
p0 721.6 ± 422.6
pull
Entries 51
Mean 84.4
Std Dev 53.7

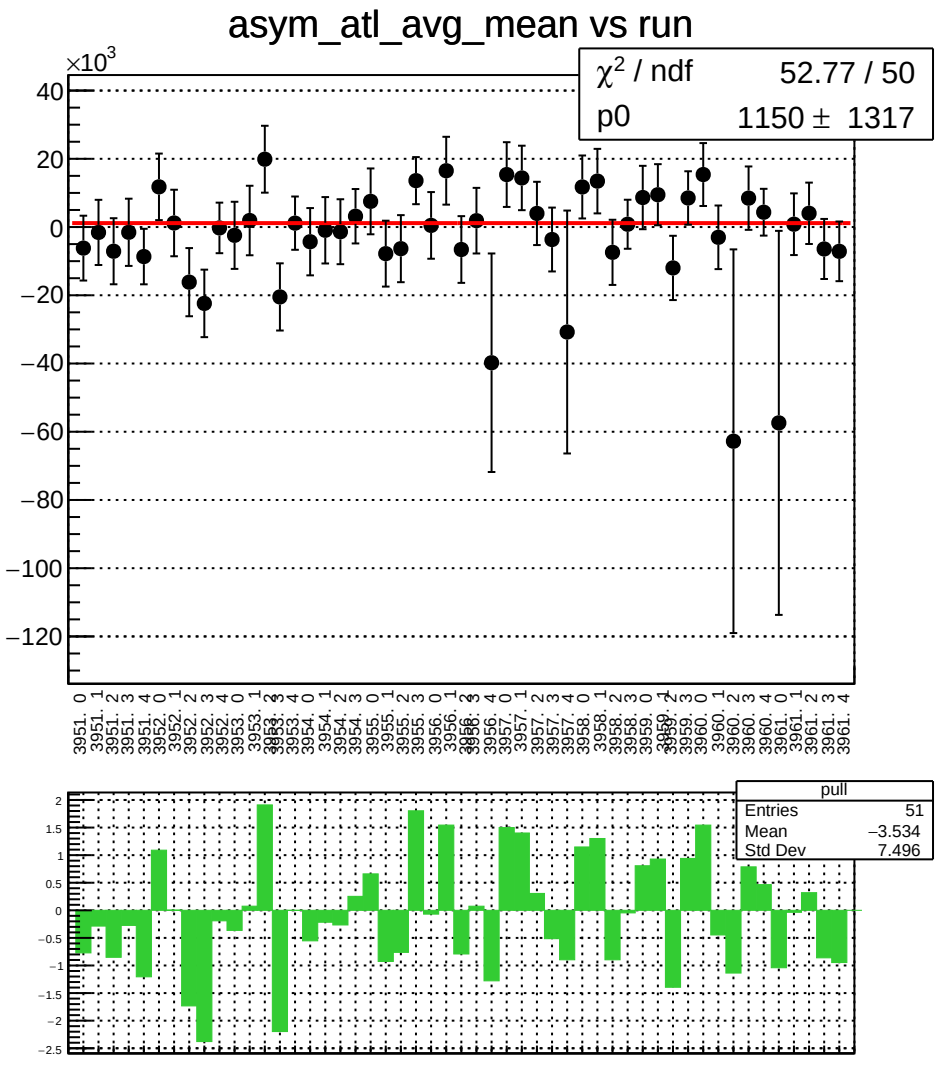

pull1D
Entries 51
Mean −0.07288
Std Dev 1.114

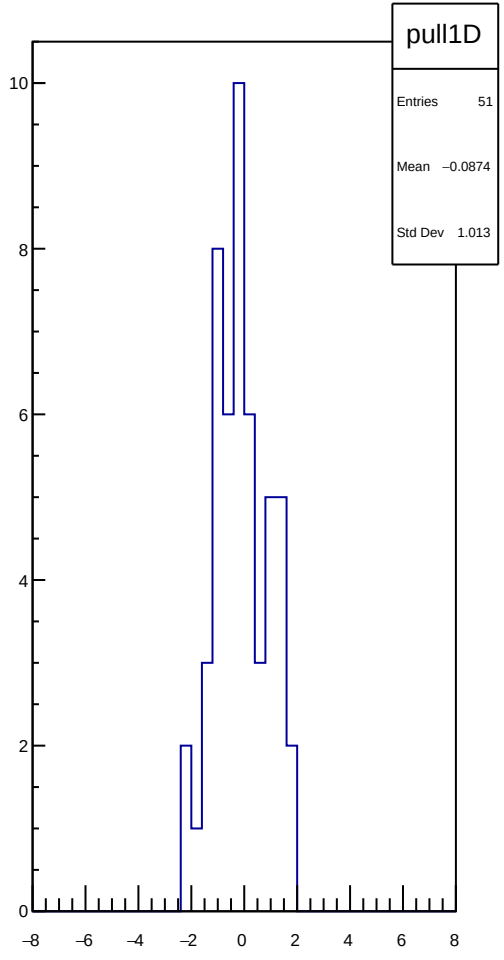

reg_asym_atl_avg_rms vs run
χ² / ndf 8.456e+04 / 50
p0 291.4 ± 0.2988
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

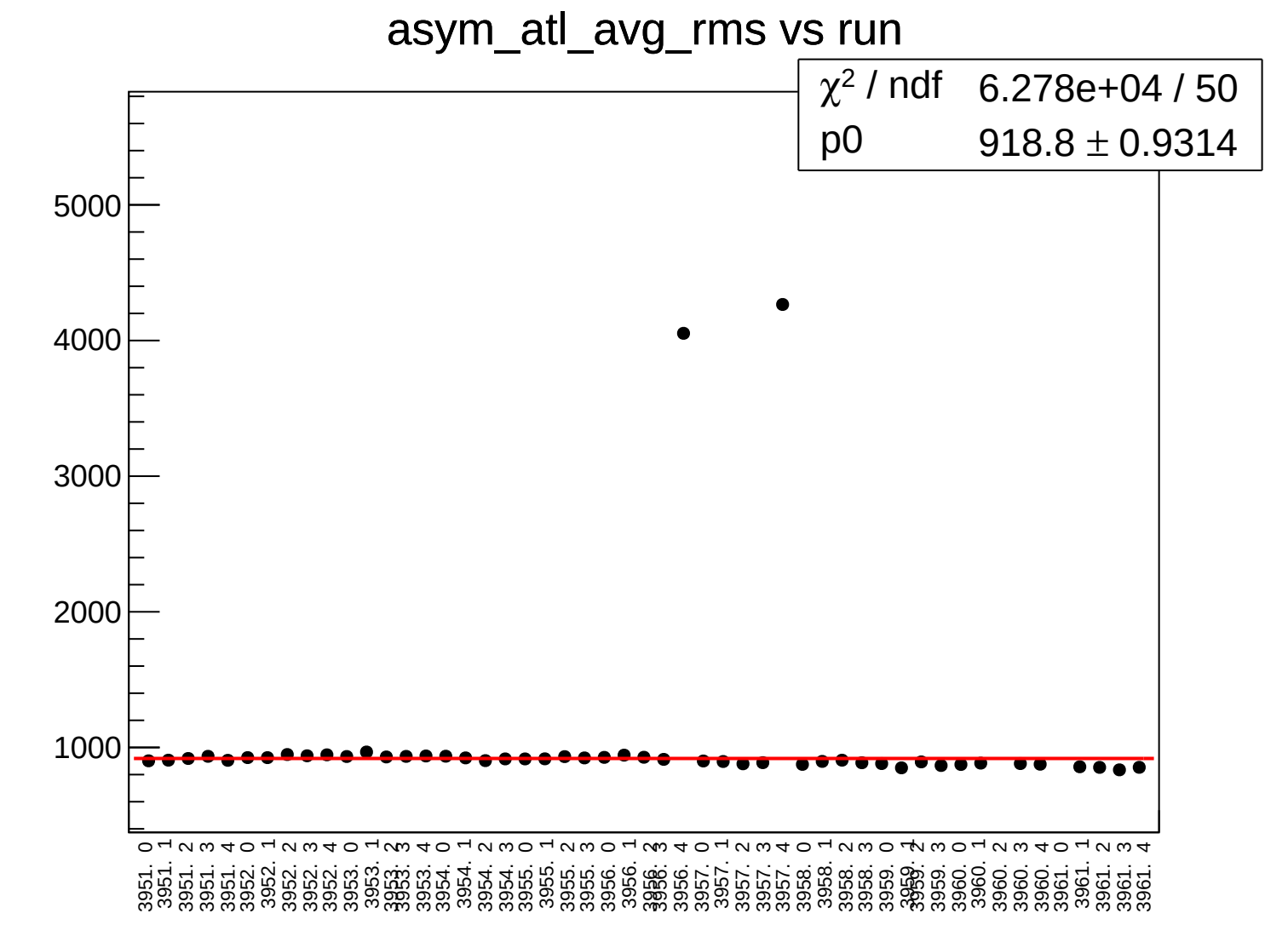

asym_atl_avg_correction_mean vs run
χ² / ndf 52.16 / 50
p0 −115.8 ± 1189
30000
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −210
Std Dev 230.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

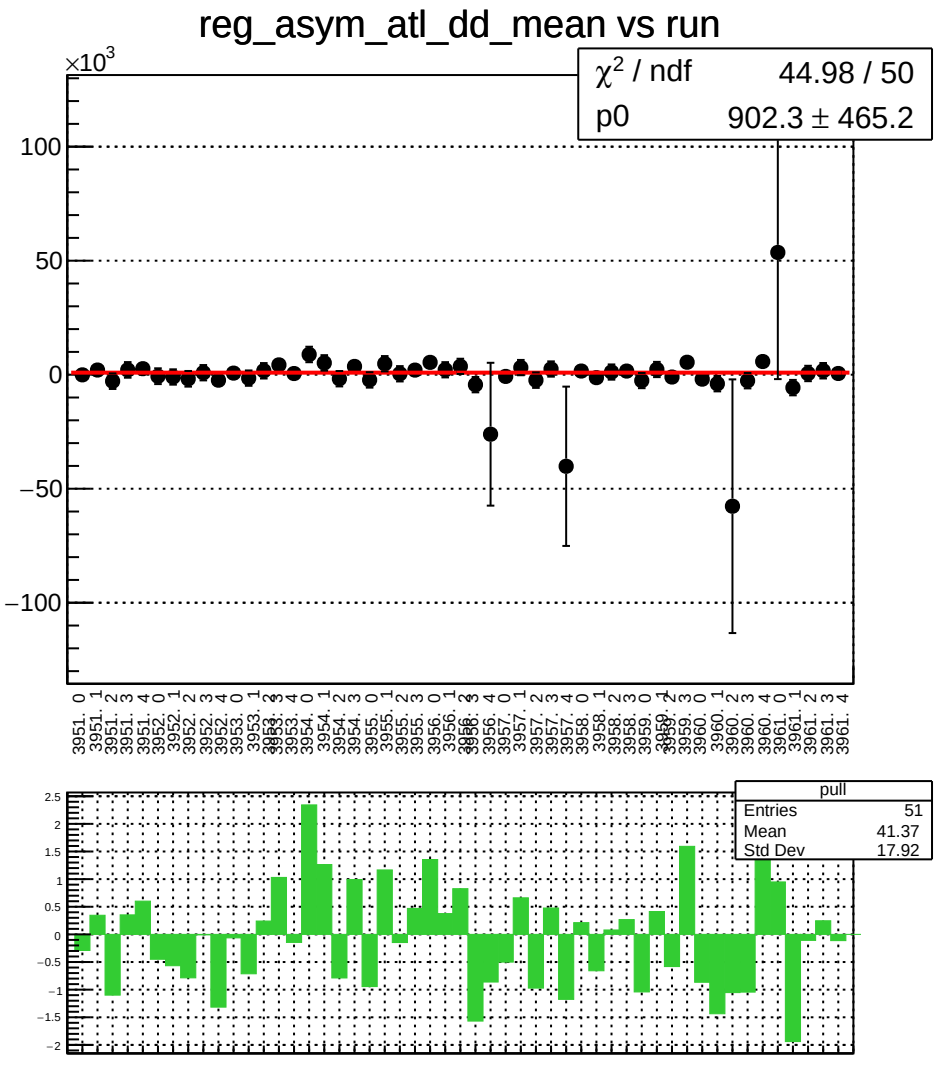

pull1D
Entries 51
Mean 0.0185
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

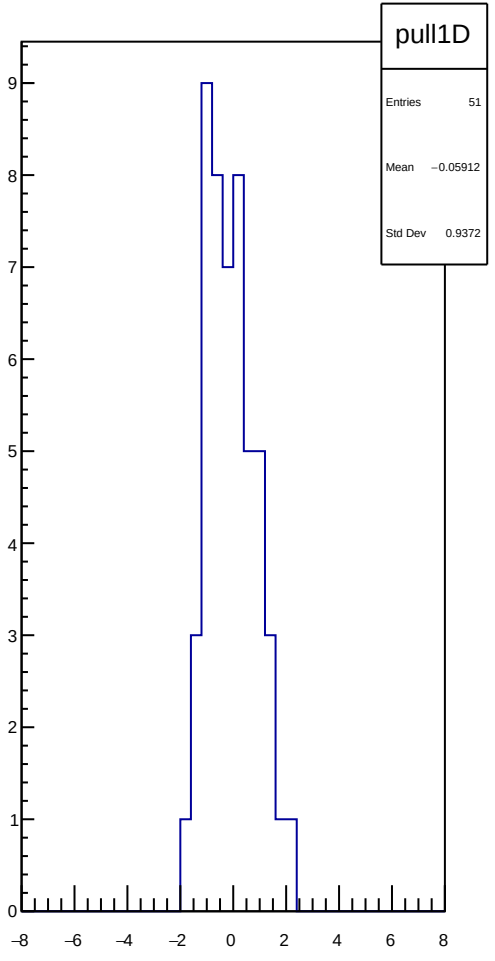

asym_atl_avg_correction_rms vs run
χ² / ndf 1476 / 50
p0 855.1 ± 0.8408
940
920
900
880
860
840
820
800
780
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

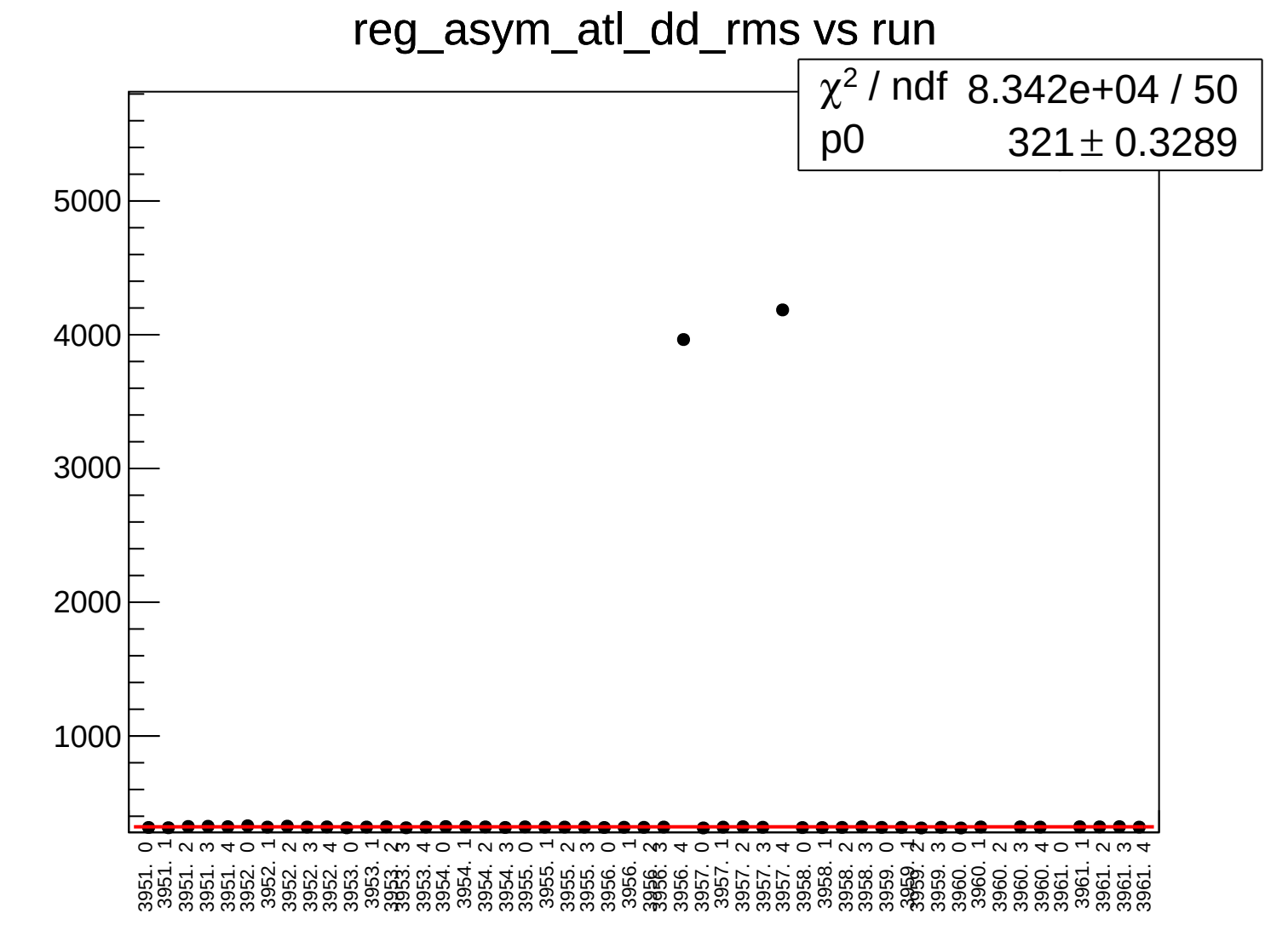

asym_atl_avg_mean vs run
×10^3
χ² / ndf 52.77 / 50
p0 1150 ± 1317
pull
Entries 51
Mean −3.534
Std Dev 7.496

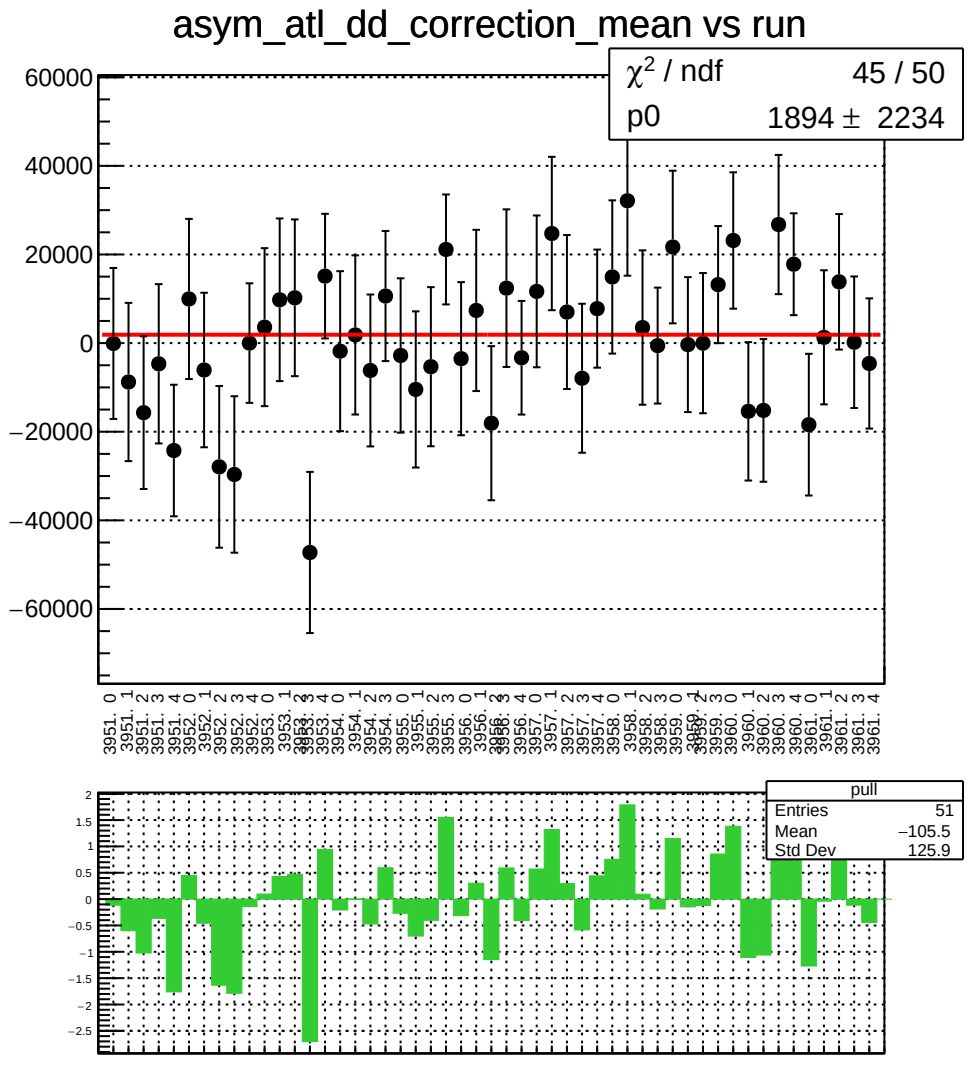

pull1D
Entries 51
Mean −0.0874
Std Dev 1.013

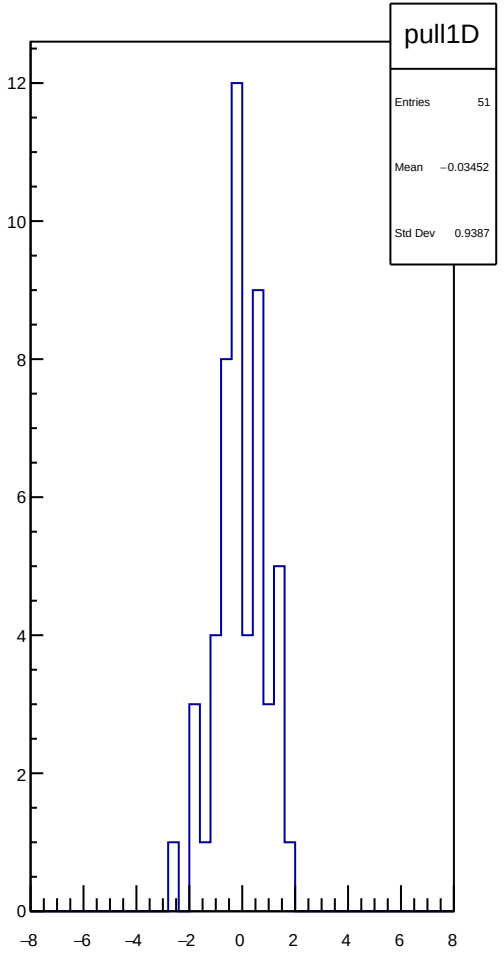

asym_atl_avg_rms vs run
χ² / ndf 6.278e+04 / 50
p0 918.8 ± 0.9314
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

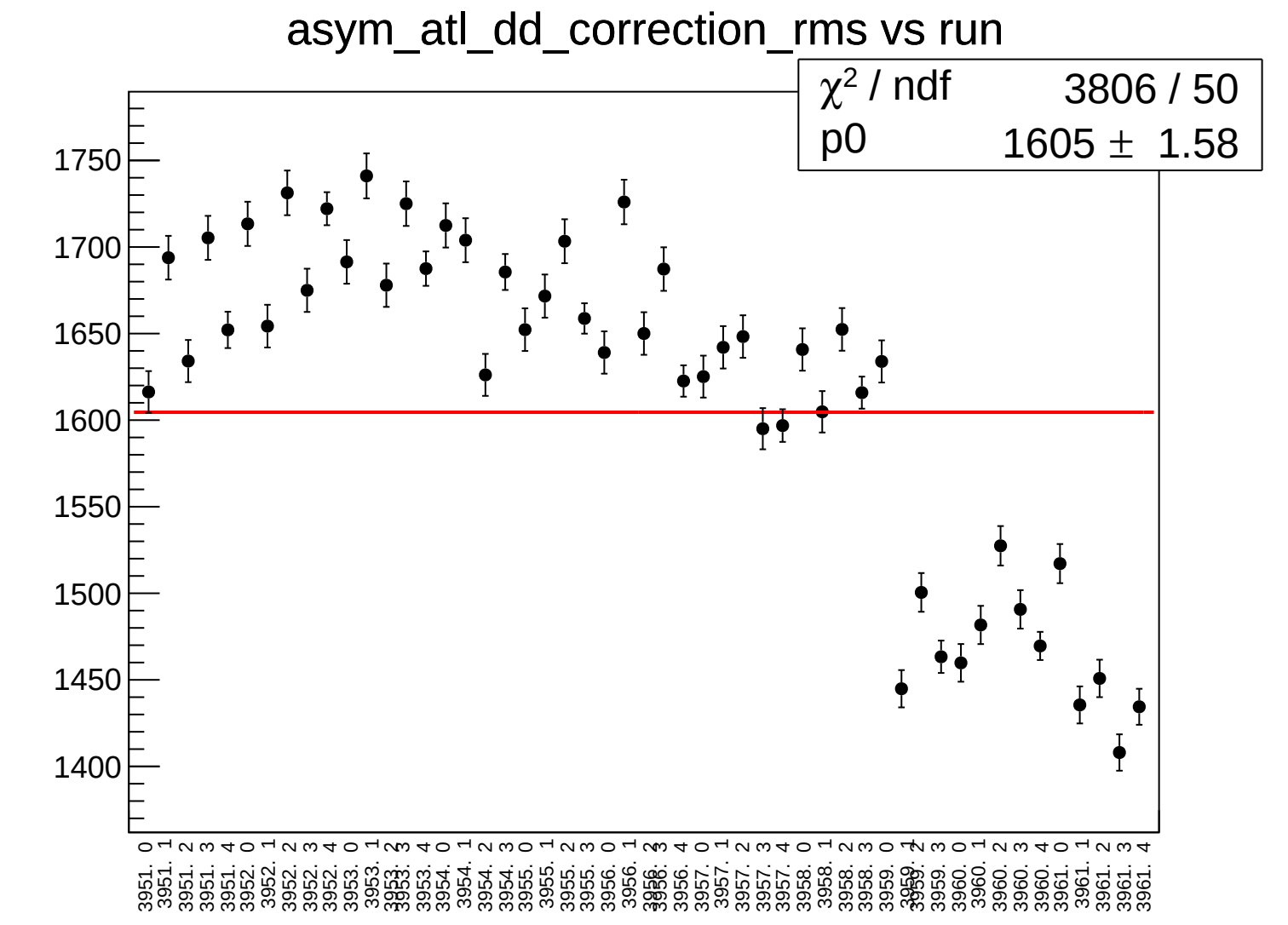

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 44.98 / 50
p0 902.3 ± 465.2
100
50
0
−50
−100
pull
Entries 51
Mean 41.37
Std Dev 17.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

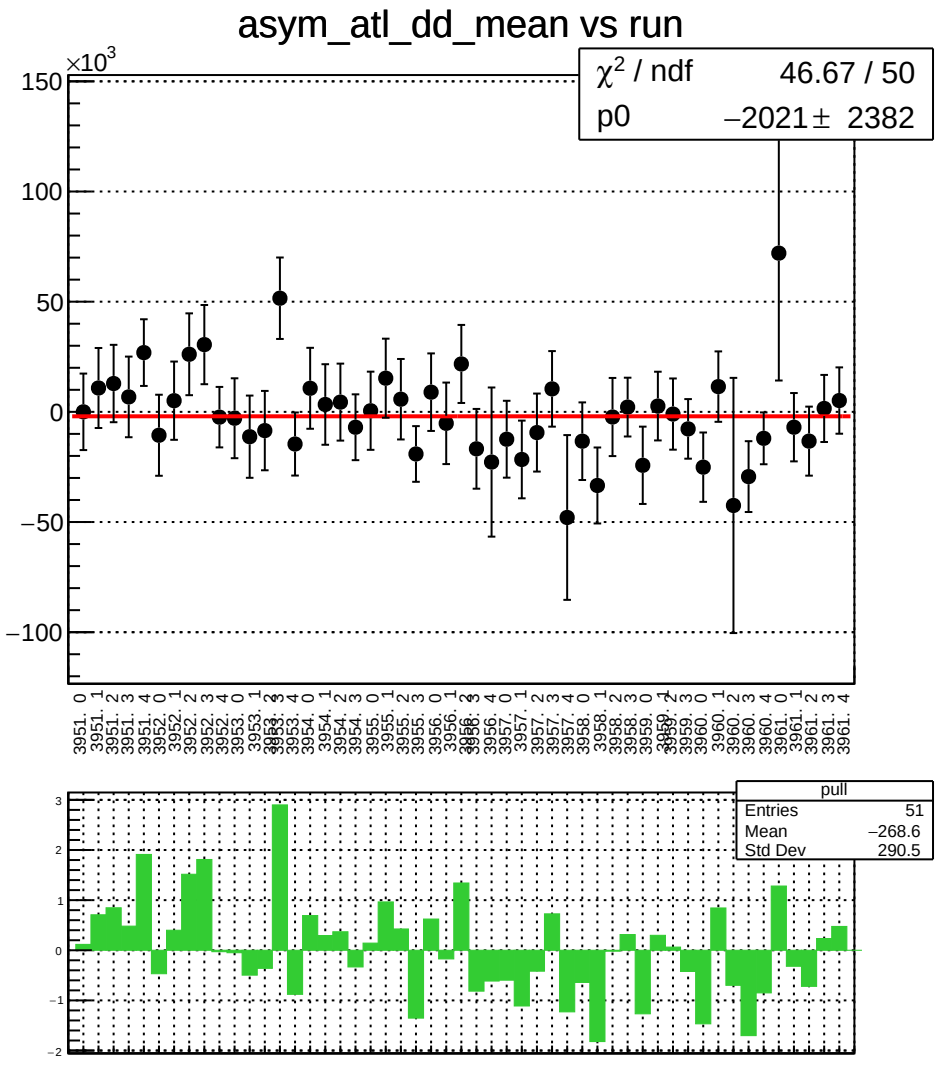

pull1D
Entries 51
Mean −0.05912
Std Dev 0.9372
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

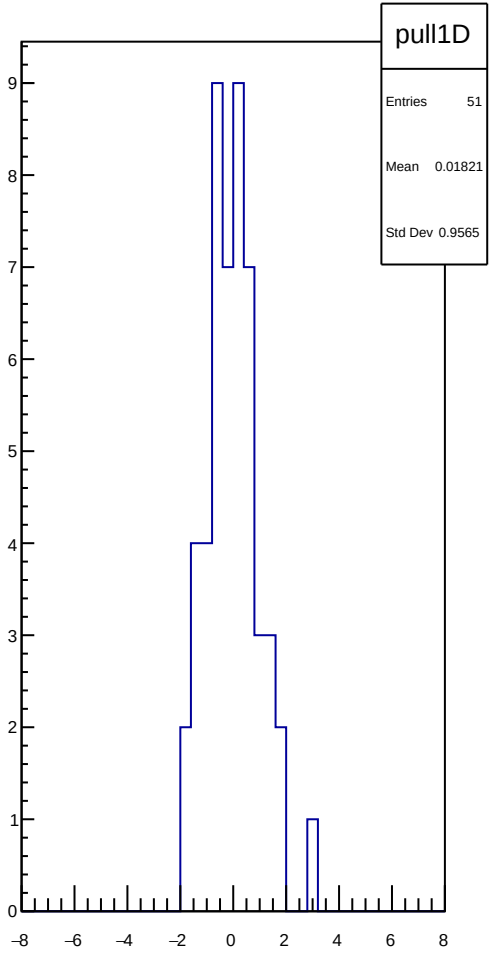

reg_asym_atl_dd_rms vs run
χ² / ndf 8.342e+04 / 50
p0 321 ± 0.3289
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

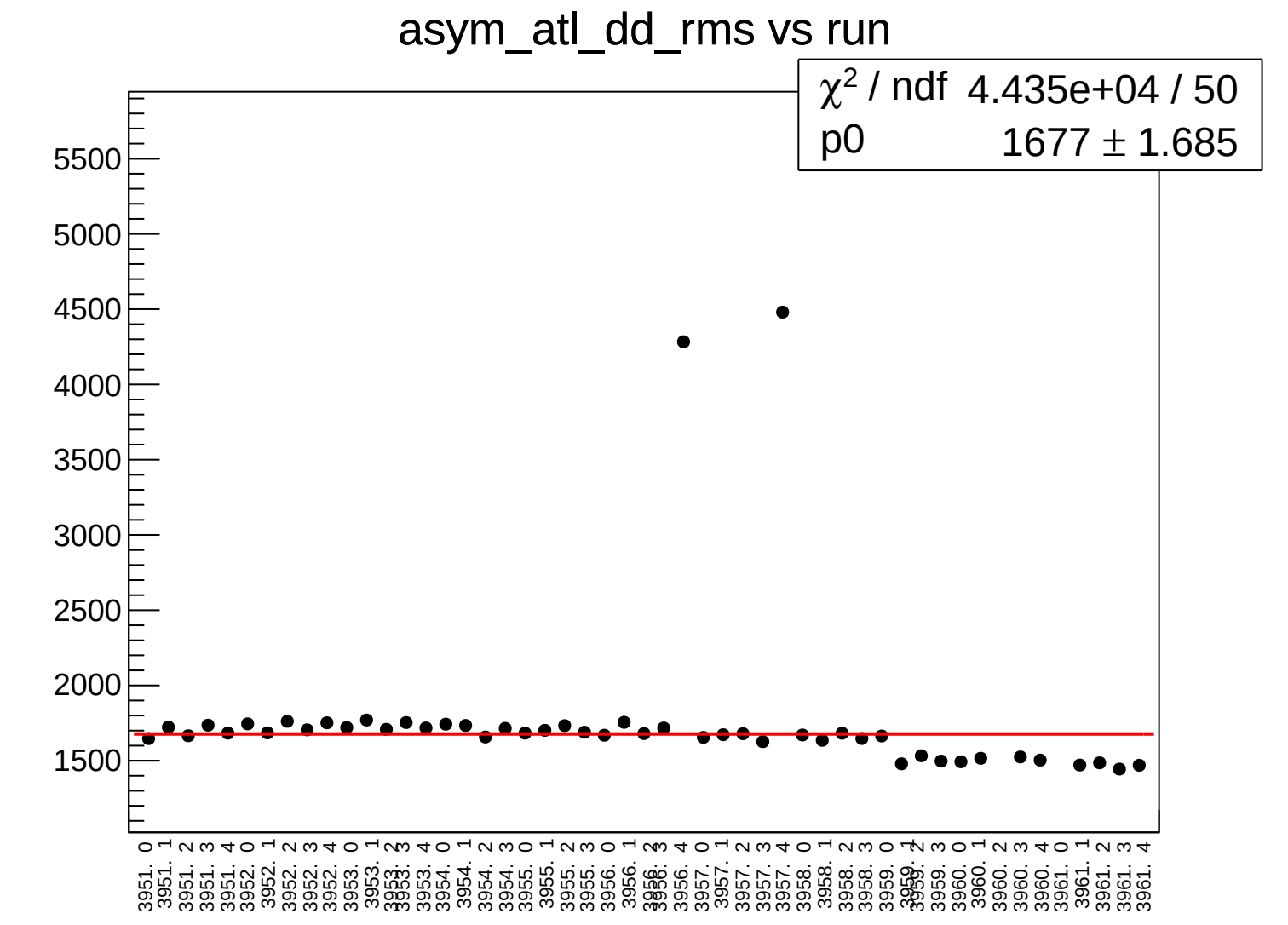

asym_atl_dd_correction_mean vs run
χ² / ndf 45 / 50
p0 1894 ± 2234
pull
Entries 51
Mean −105.5
Std Dev 125.9

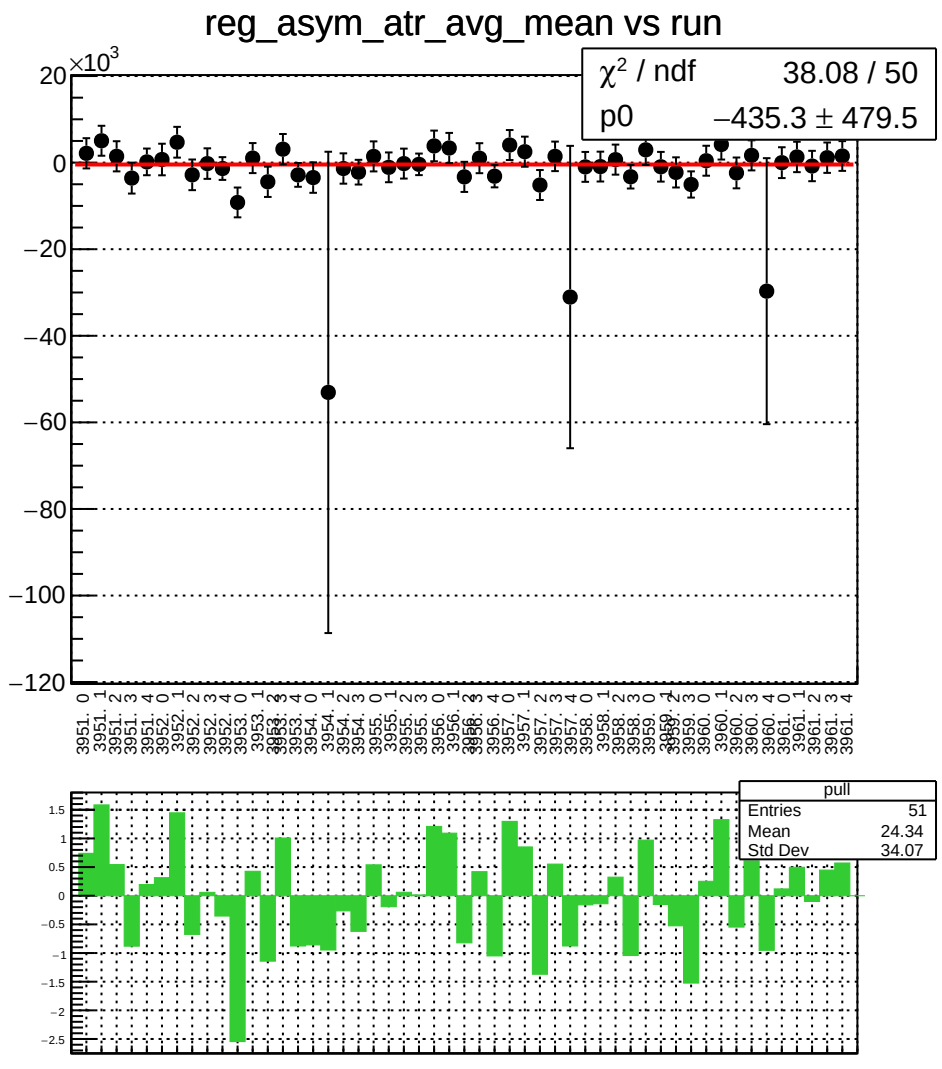

pull1D
Entries 51
Mean −0.03452
Std Dev 0.9387

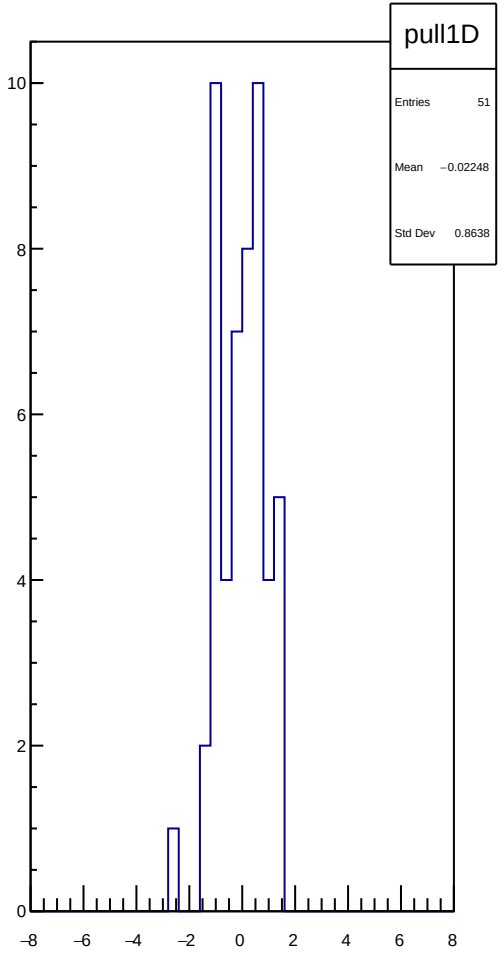

asym_atl_dd_correction_rms vs run
χ² / ndf 3806 / 50
p0 1605 ± 1.58
1750
1700
1650
1600
1550
1500
1450
1400
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

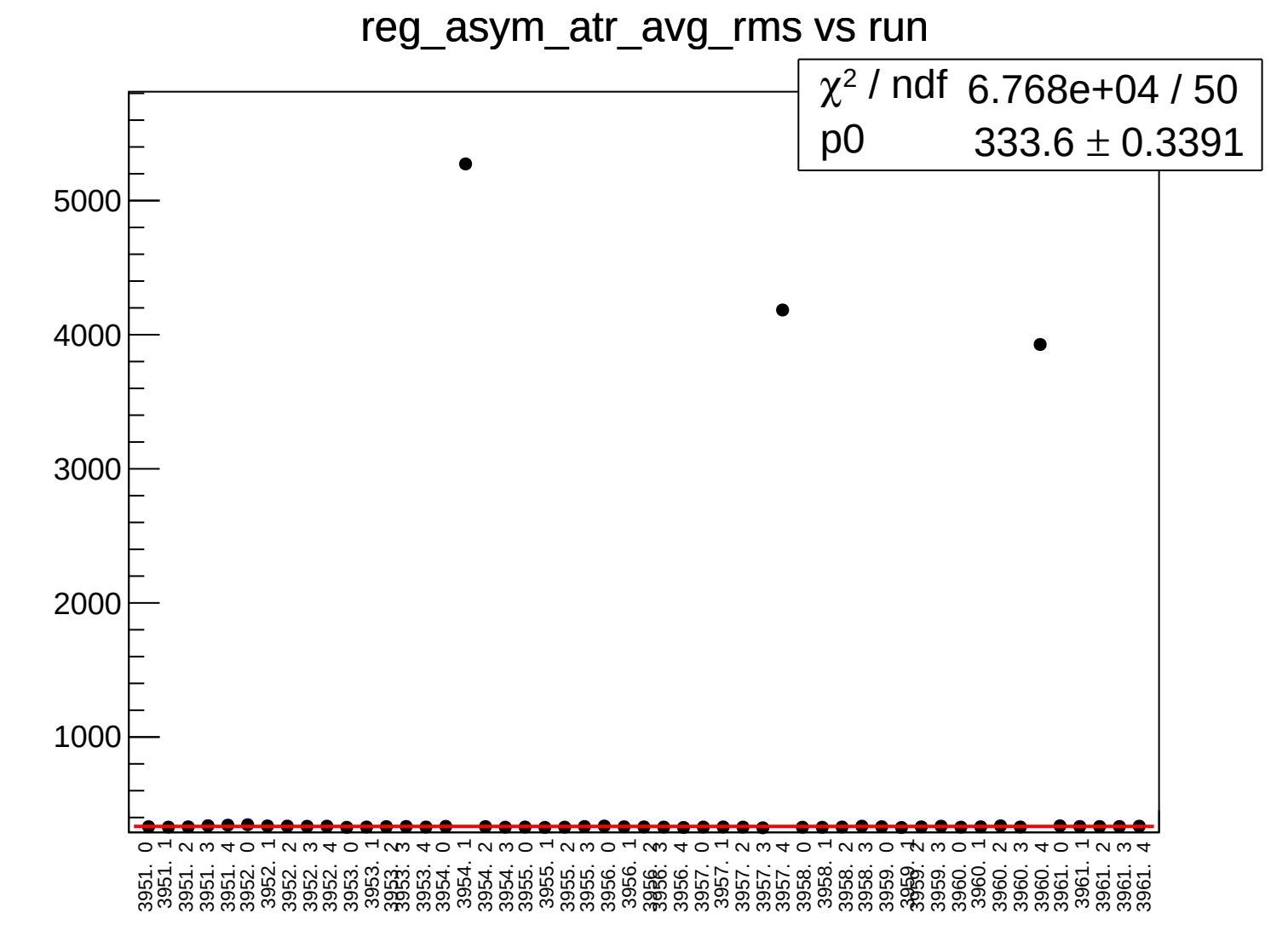

asym_atl_dd_mean vs run
χ² / ndf 46.67 / 50
p0 −2021 ± 2382
×10³
150
100
50
0
−50
−100
pull
Entries 51
Mean −268.6
Std Dev 290.5

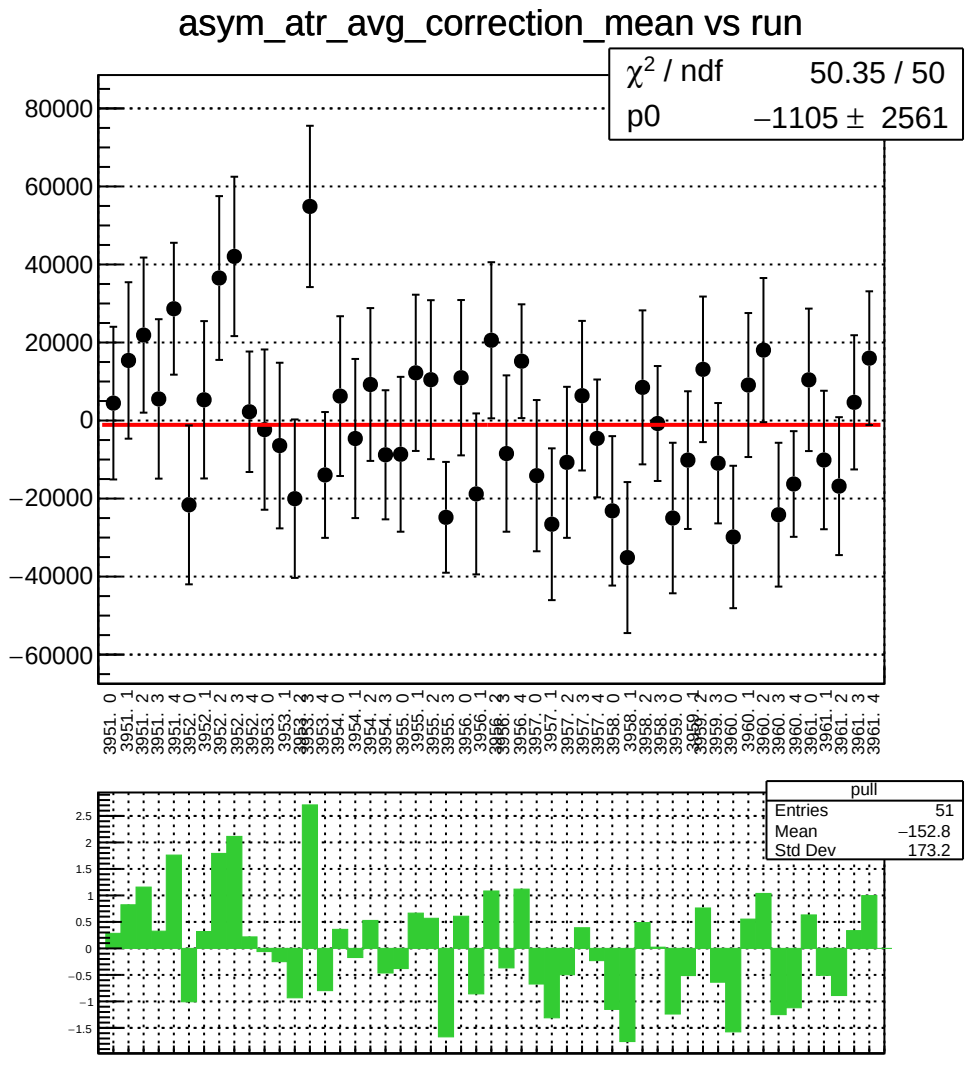

pull1D
Entries 51
Mean 0.01821
Std Dev 0.9565

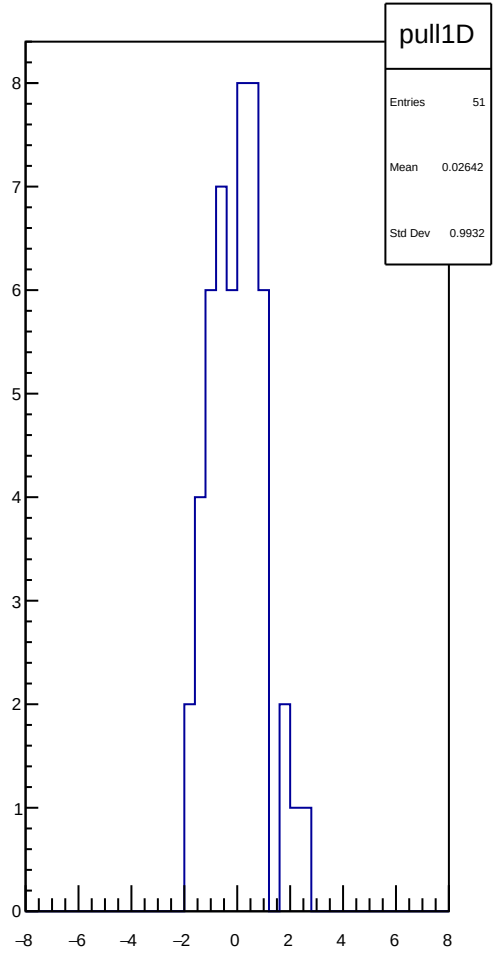

asym_atl_dd_rms vs run
χ^2 / ndf 4.435e+04 / 50
p0 1677 ± 1.685
5500
5000
4500
4000
3500
3000
2500
2000
1500
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

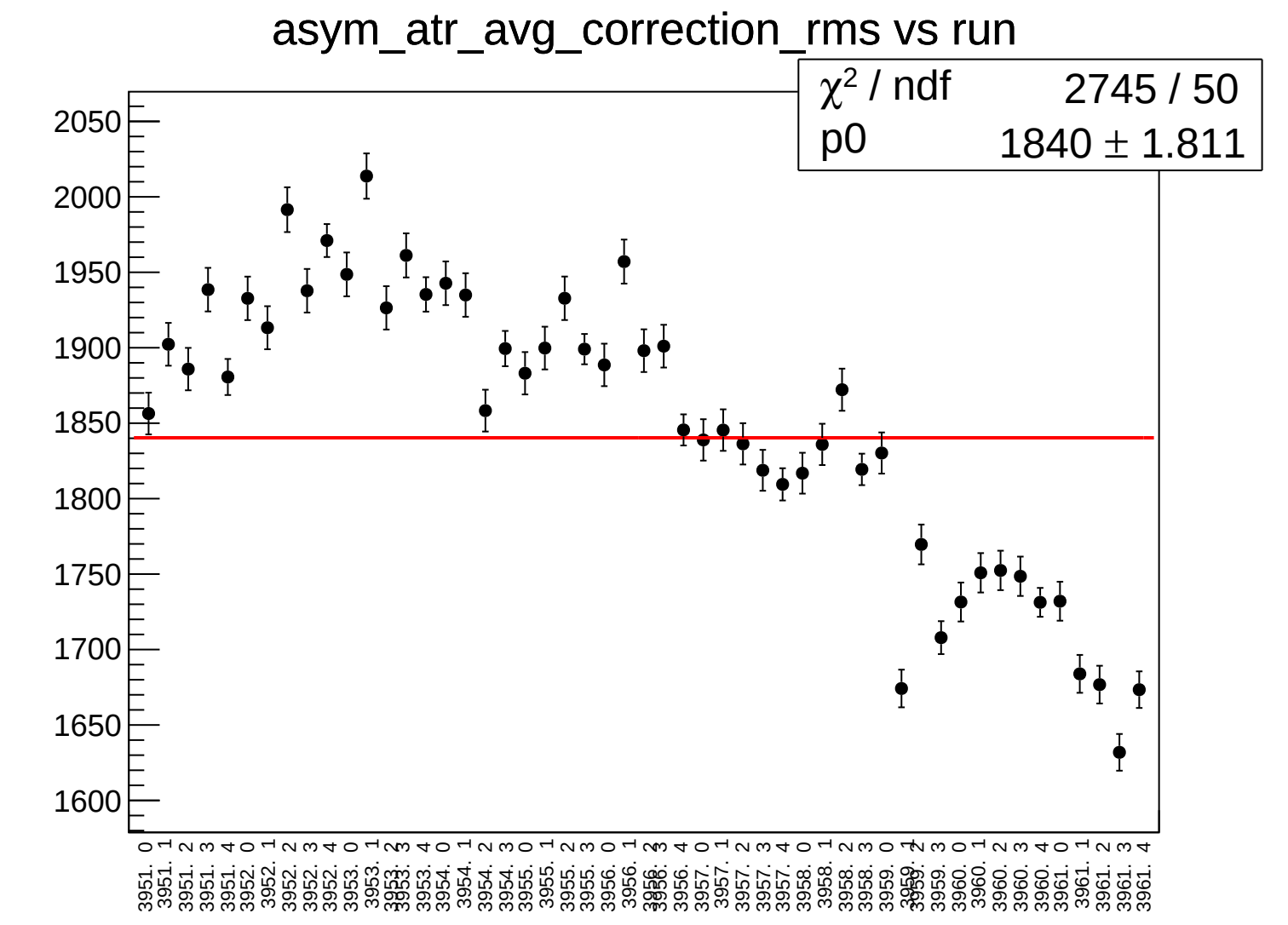

reg_asym_atr_avg_mean vs run
χ² / ndf 38.08 / 50
p0 −435.3 ± 479.5
×10³
pull
Entries 51
Mean 24.34
Std Dev 34.07

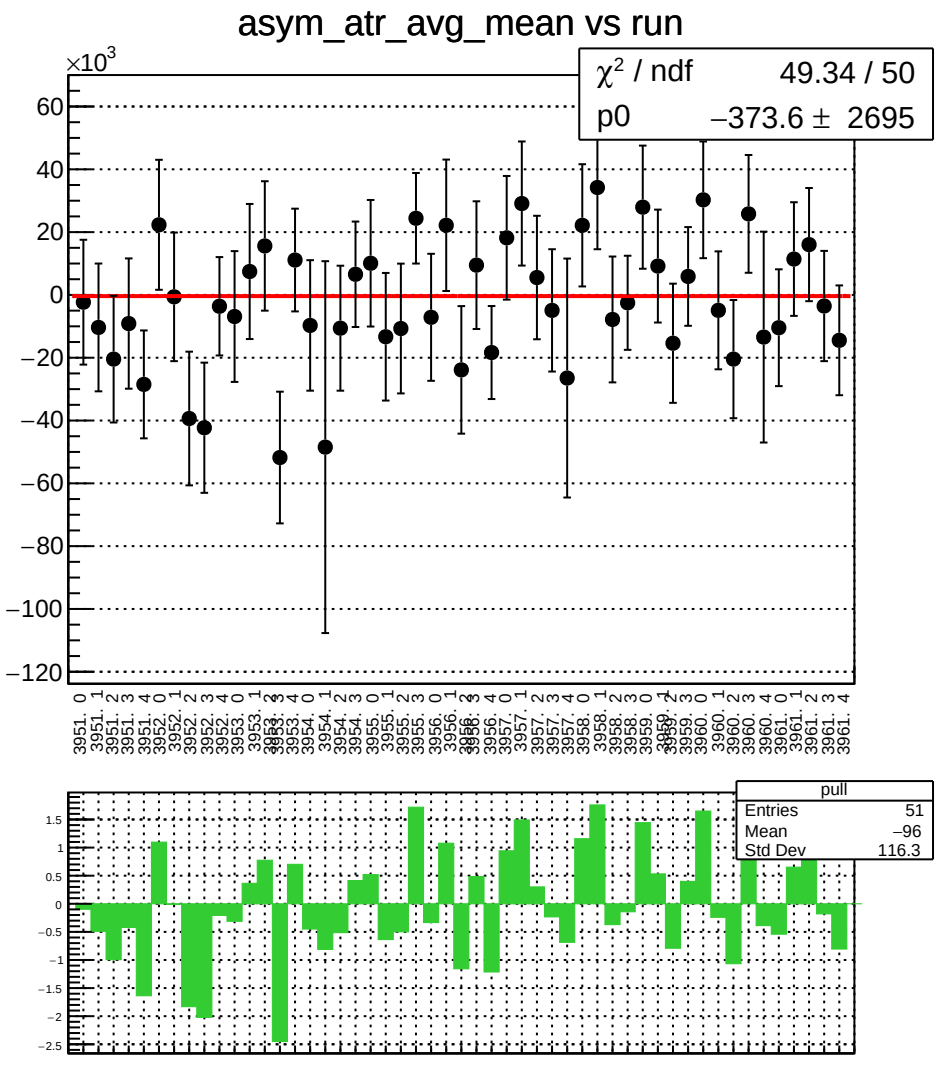

pull1D
Entries 51
Mean −0.02248
Std Dev 0.8638

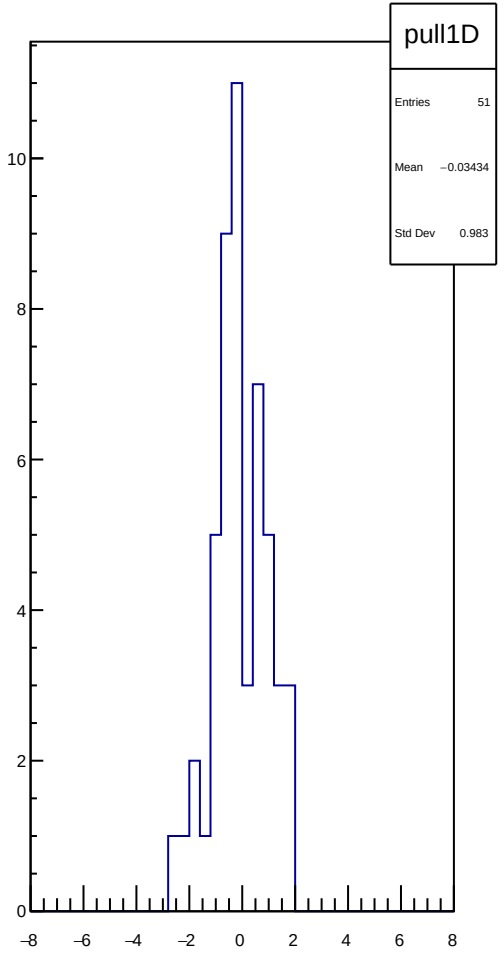

reg_asym_atr_avg_rms vs run
χ² / ndf 6.768e+04 / 50
p0 333.6 ± 0.3391
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

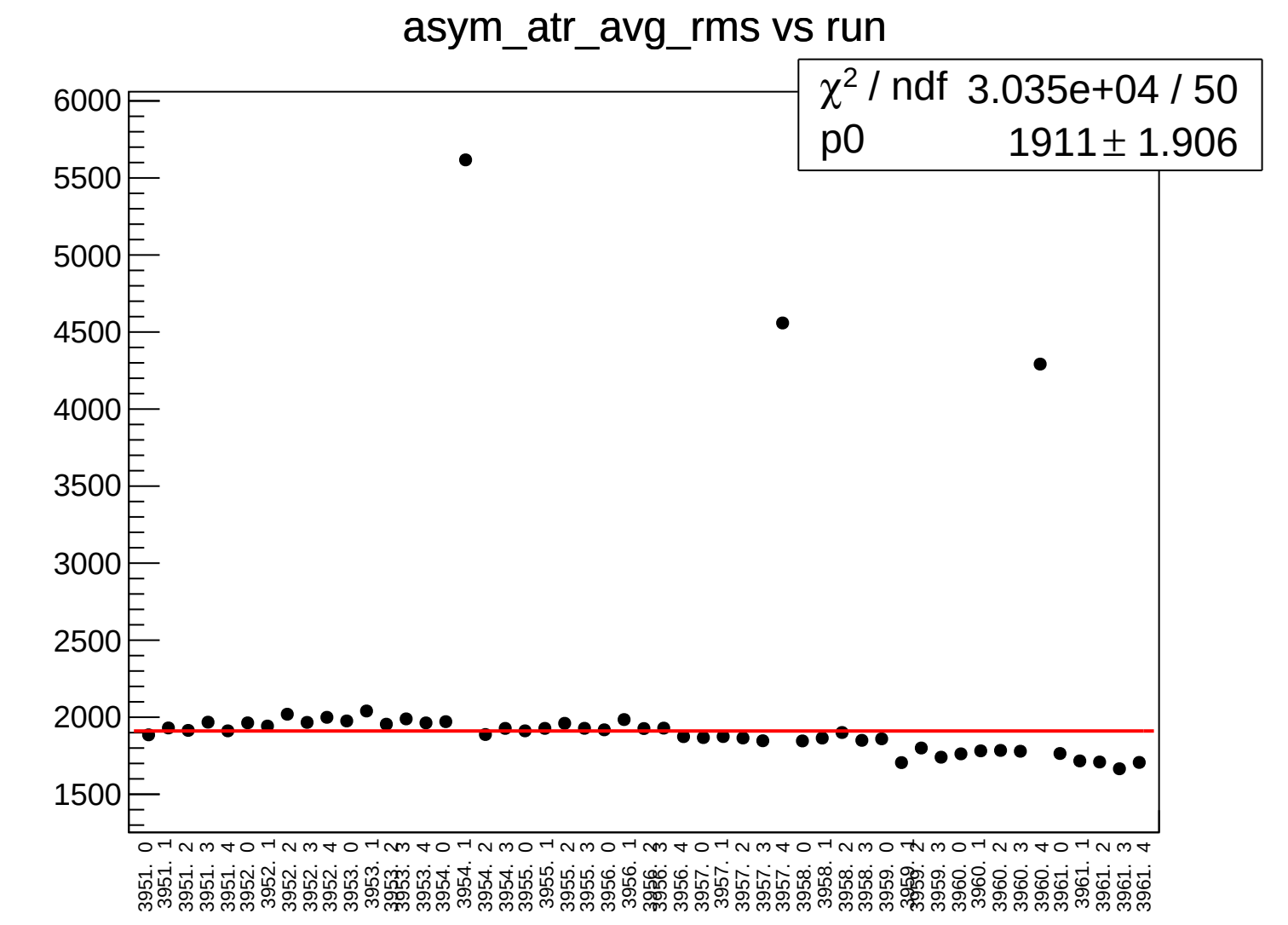

asym_atr_avg_correction_mean vs run
χ² / ndf 50.35 / 50
p0 −1105 ± 2561
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −152.8
Std Dev 173.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

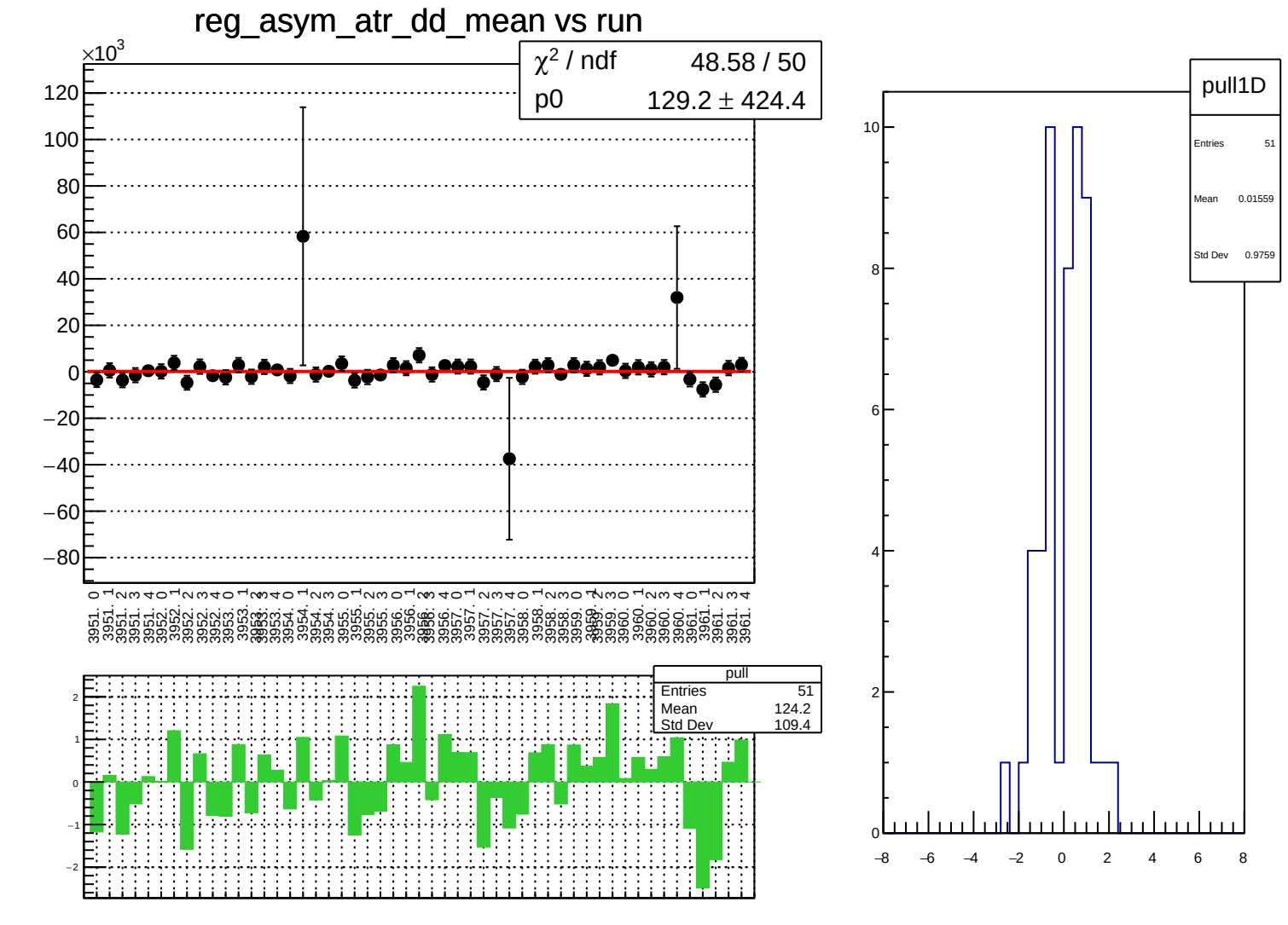

pull1D
Entries 51
Mean 0.02642
Std Dev 0.9932
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

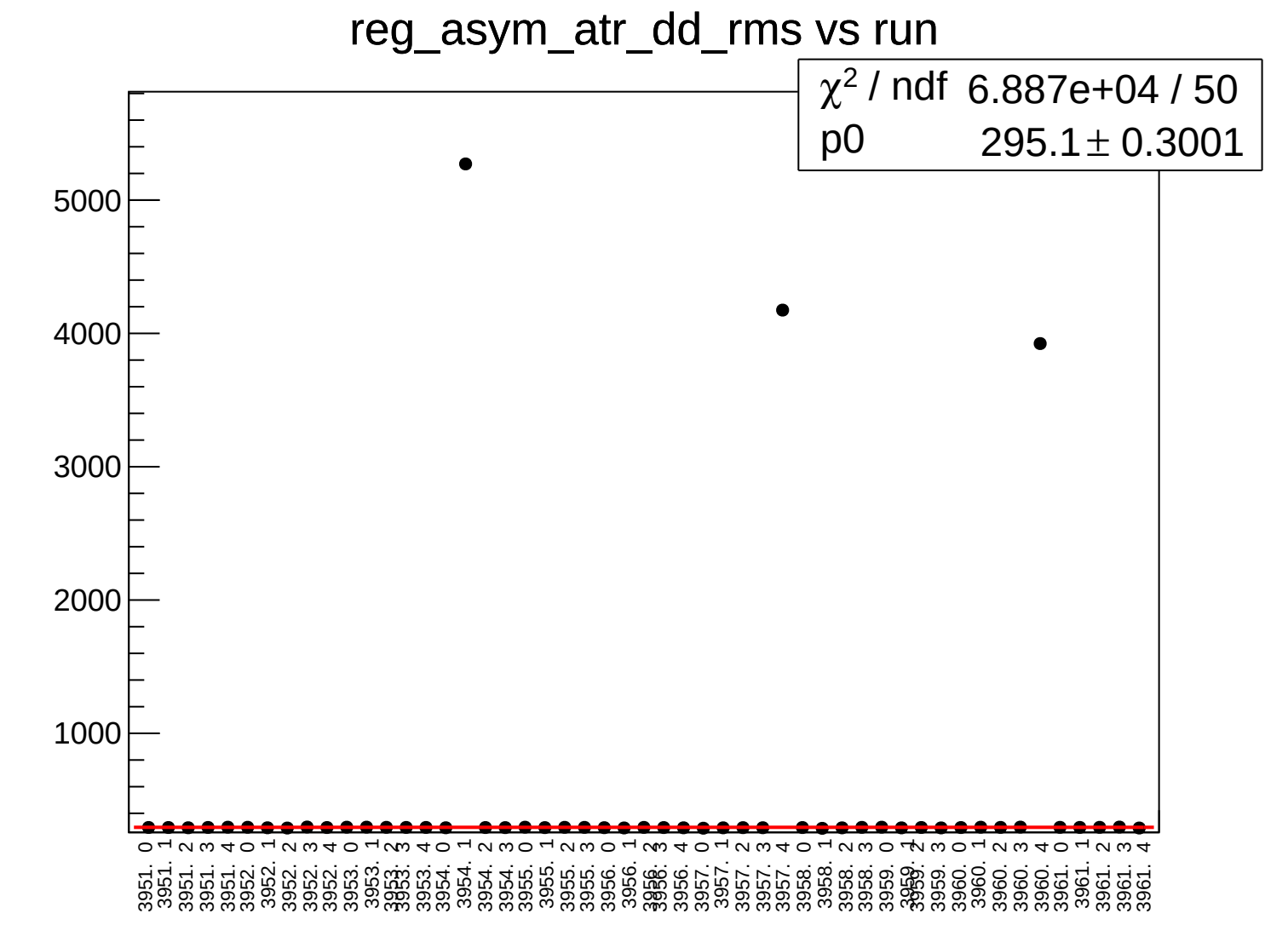

asym_atr_avg_correction_rms vs run
χ² / ndf 2745 / 50
p0 1840 ± 1.811
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

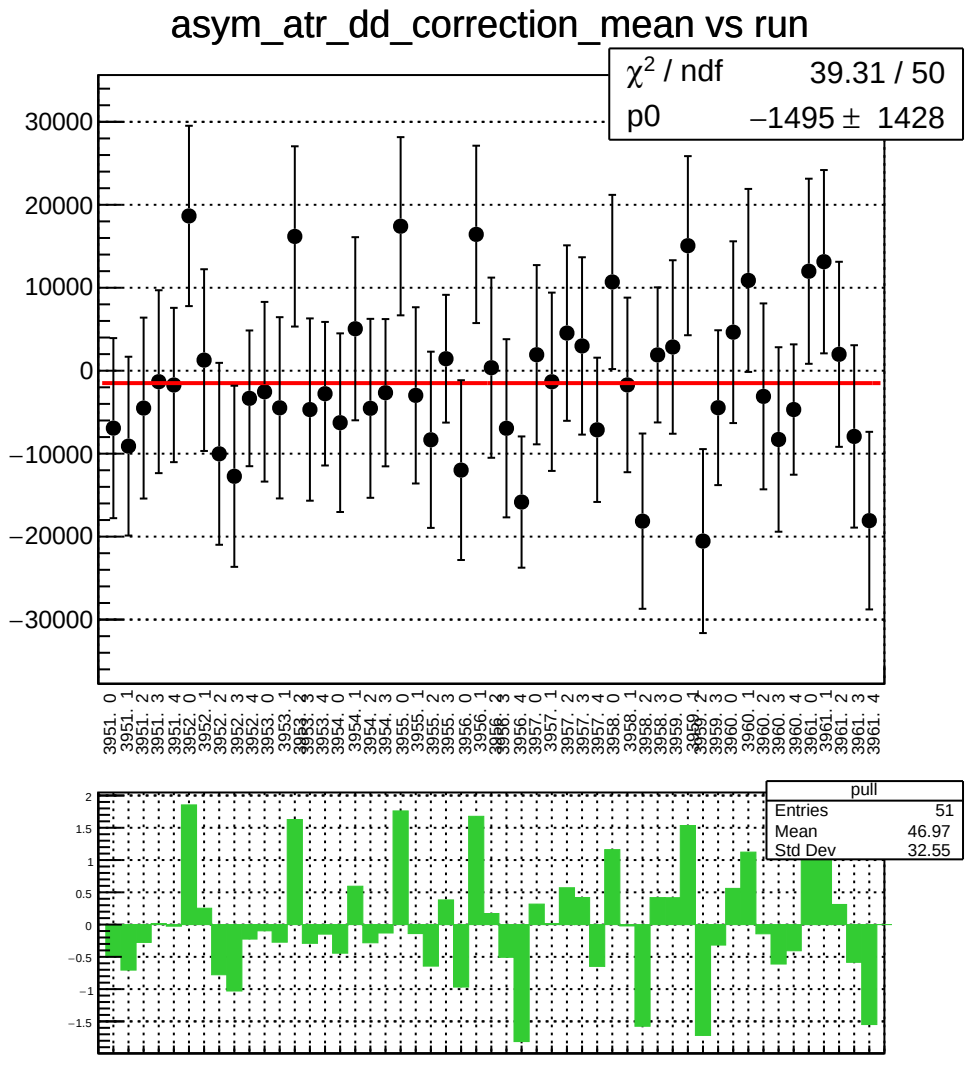

asym_atr_avg_mean vs run
×10^3
χ² / ndf 49.34 / 50
p0 −373.6 ± 2695
pull
Entries 51
Mean −96
Std Dev 116.3

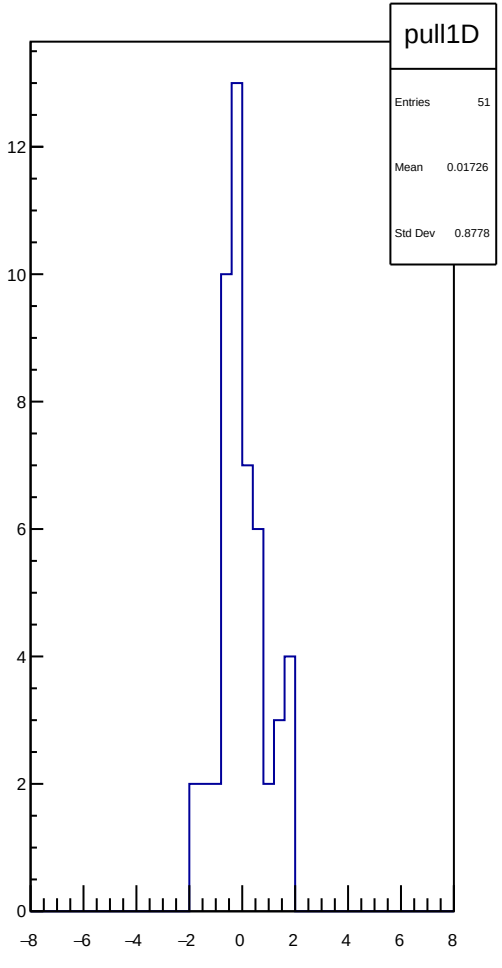

pull1D
Entries 51
Mean −0.03434
Std Dev 0.983

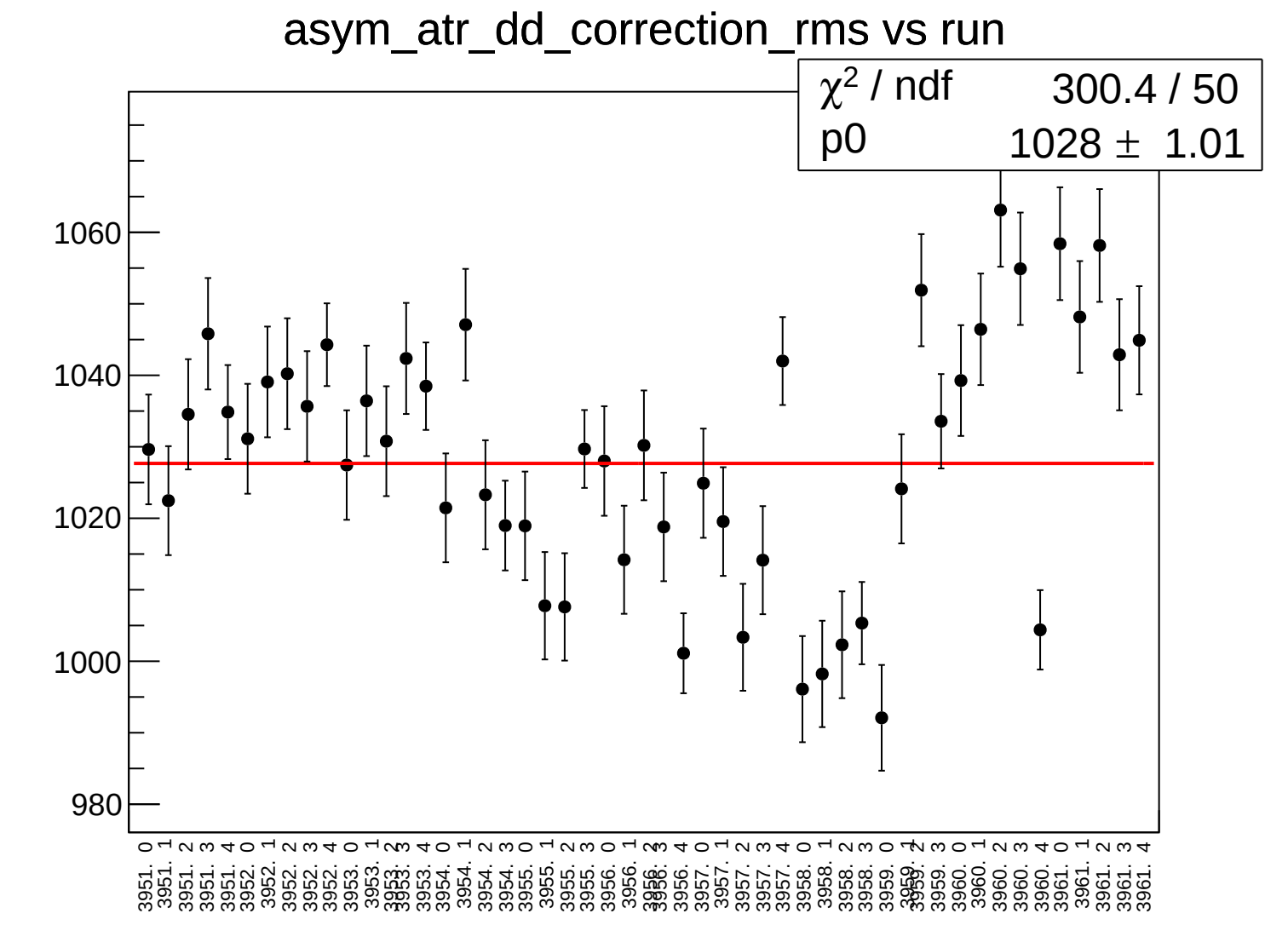

asym_atr_avg_rms vs run
χ² / ndf 3.035e+04 / 50
p0 1911 ± 1.906
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

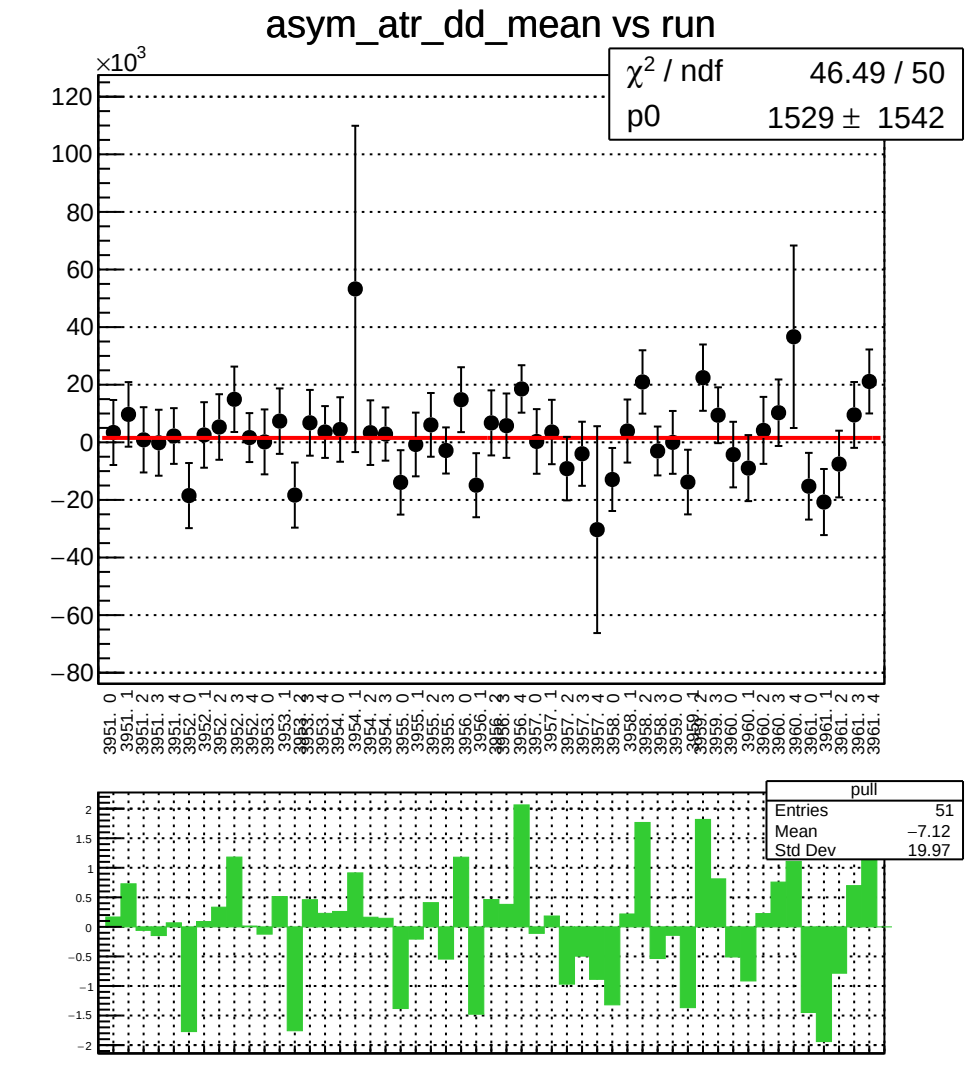

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 48.58 / 50
p0 129.2 ± 424.4
pull
Entries 51
Mean 124.2
Std Dev 109.4
pull1D
Entries 51
Mean 0.01559
Std Dev 0.9759

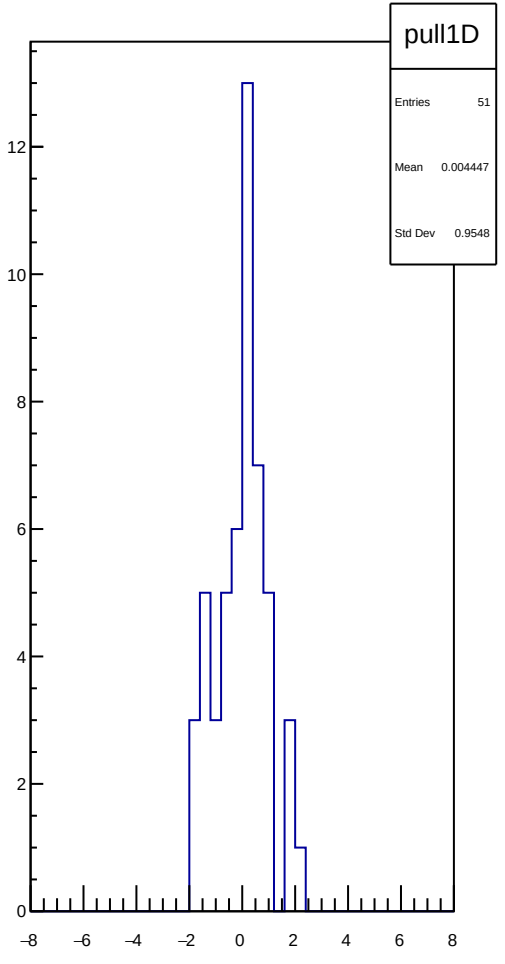

reg_asym_atr_dd_rms vs run
χ² / ndf 6.887e+04 / 50
p0 295.1 ± 0.3001
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

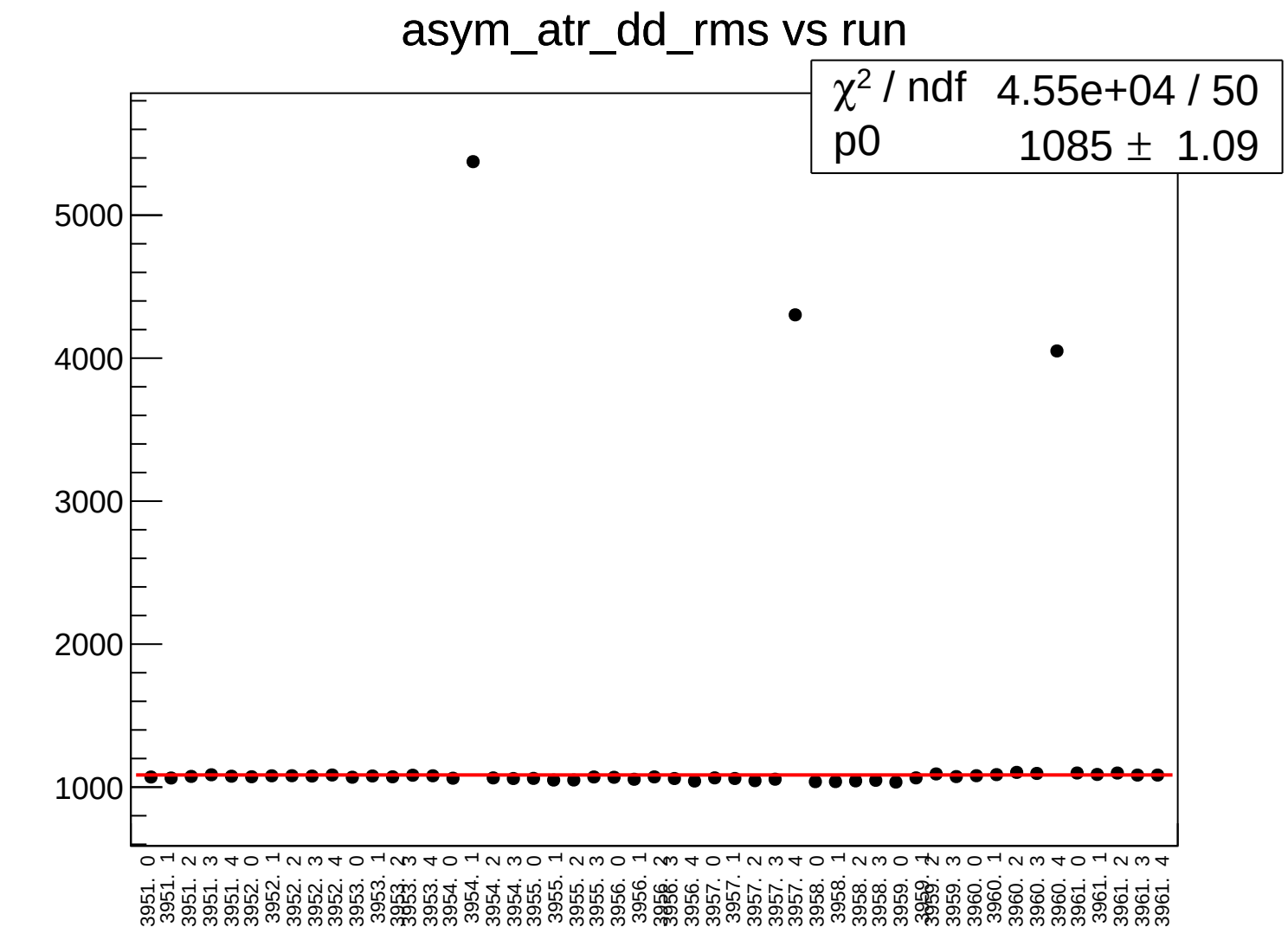

asym_atr_dd_correction_mean vs run
χ^2 / ndf 39.31 / 50
p0 −1495 ± 1428
pull
Entries 51
Mean 46.97
Std Dev 32.55

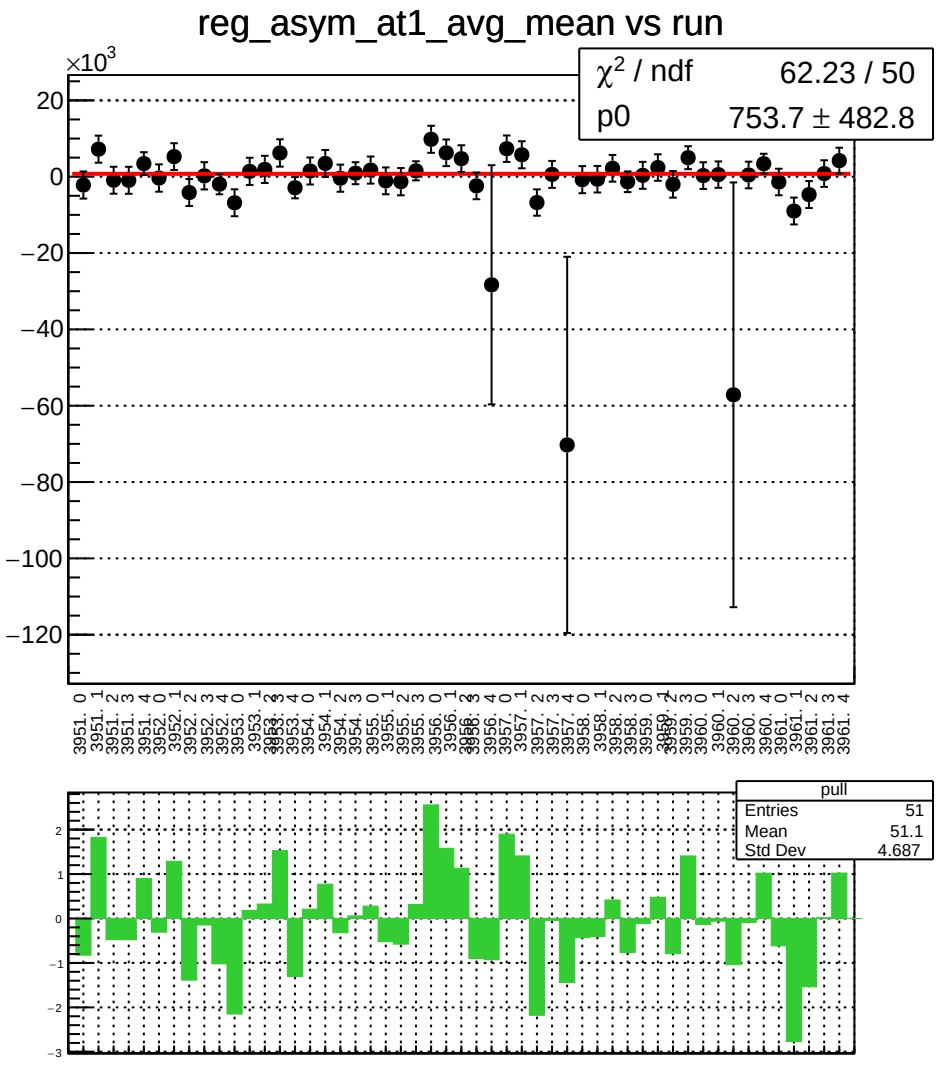

pull1D
Entries 51
Mean 0.01726
Std Dev 0.8778

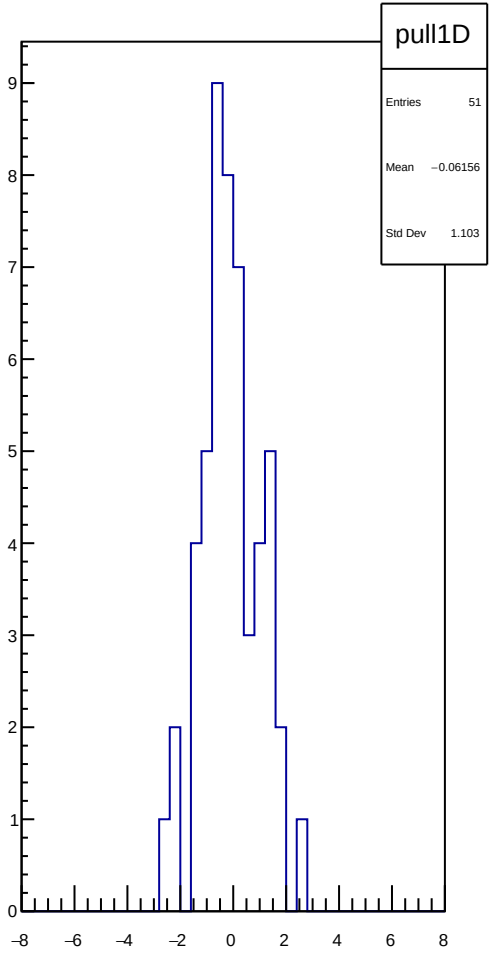

asym_atr_dd_correction_rms vs run
χ² / ndf 300.4 / 50
p0 1028 ± 1.01
1060
1040
1020
1000
980
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

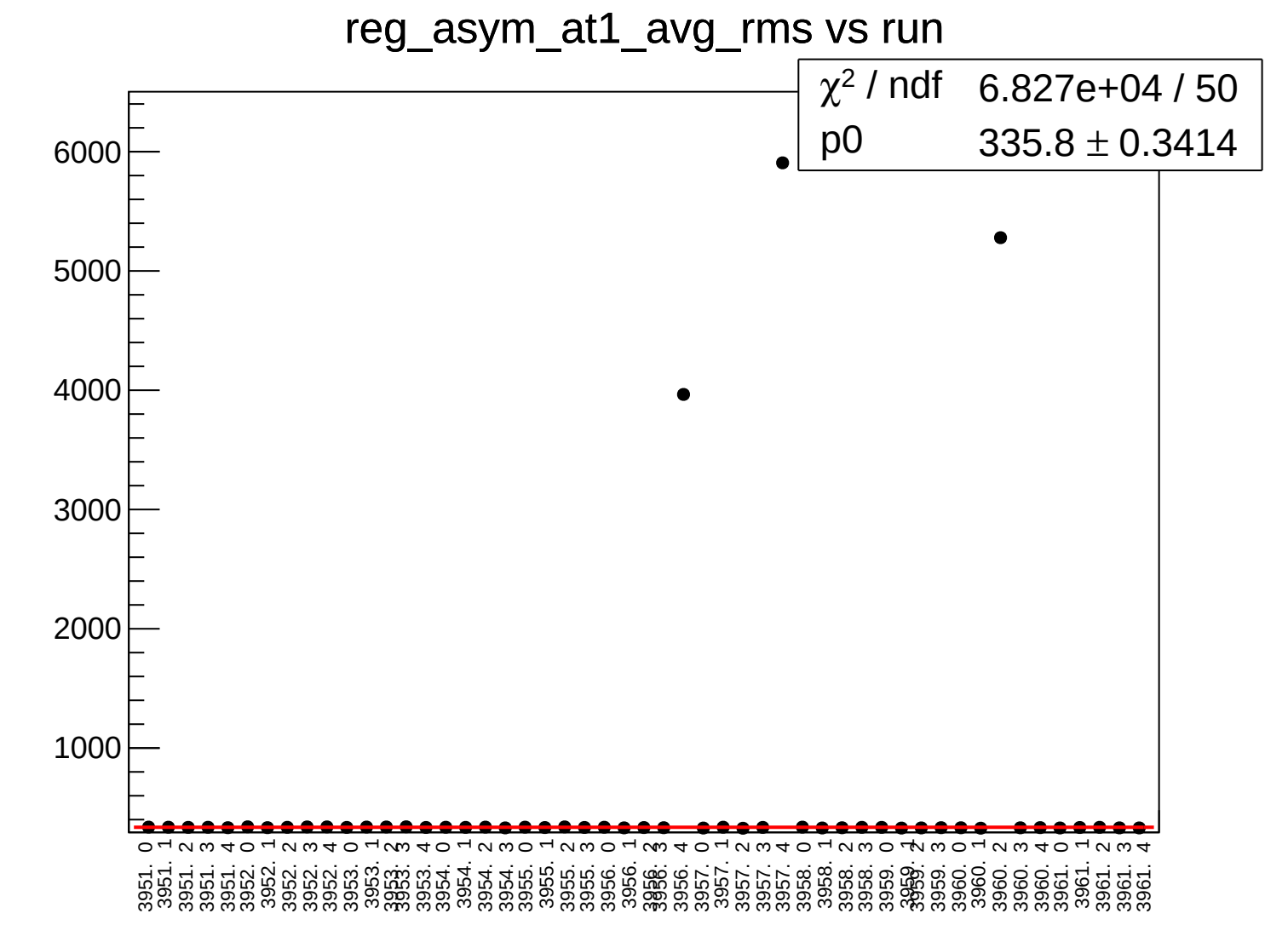

asym_atr_dd_mean vs run
×10^3
χ² / ndf 46.49 / 50
p0 1529 ± 1542
pull
Entries 51
Mean −7.12
Std Dev 19.97

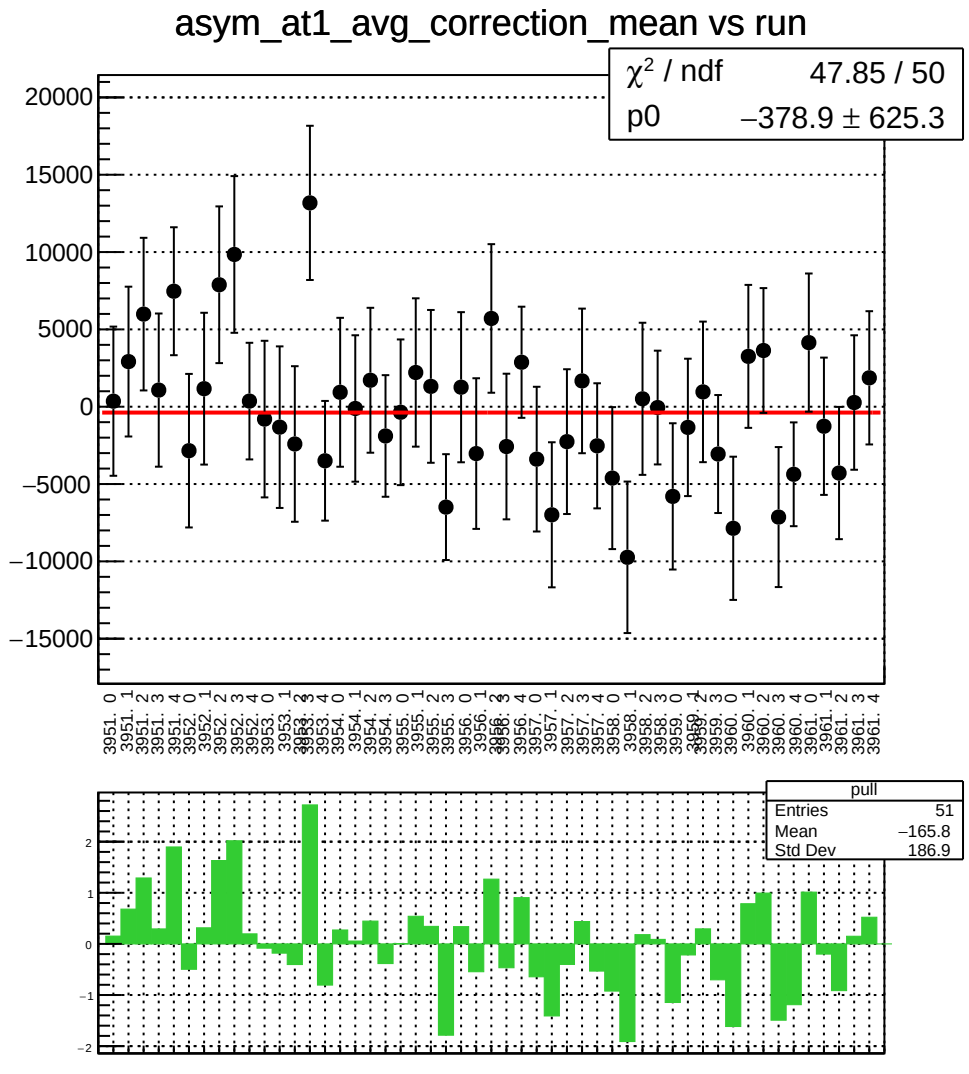

pull1D
Entries 51
Mean 0.004447
Std Dev 0.9548

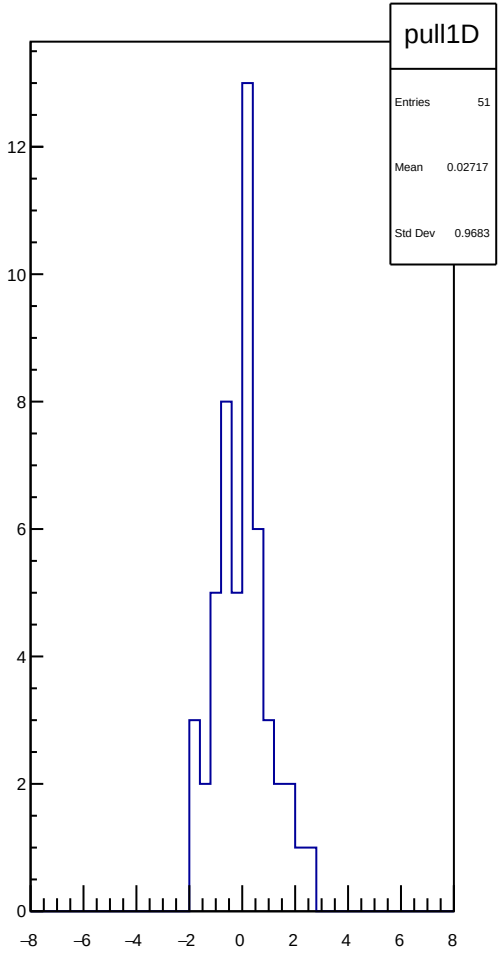

asym_atr_dd_rms vs run
χ² / ndf 4.55e+04 / 50
p0 1085 ± 1.09
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

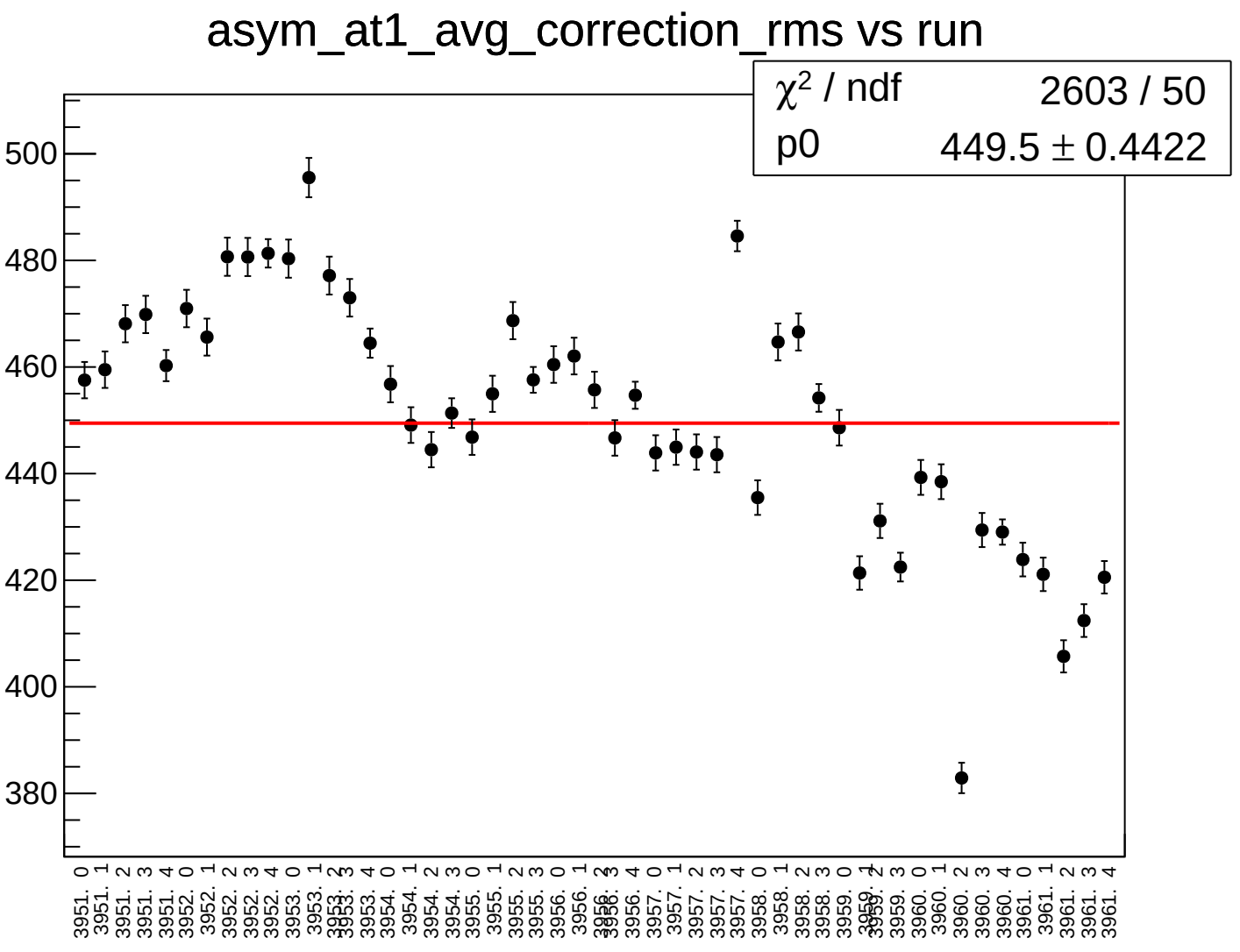

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 62.23 / 50
p0 753.7 ± 482.8
pull
Entries 51
Mean 51.1
Std Dev 4.687


pull1D
Entries 51
Mean −0.06156
Std Dev 1.103


reg_asym_at1_avg_rms vs run
χ² / ndf 6.827e+04 / 50
p0 335.8 ± 0.3414
6000
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_at1_avg_correction_mean vs run
χ² / ndf 47.85 / 50
p0 −378.9 ± 625.3
pull
Entries 51
Mean −165.8
Std Dev 186.9


pull1D
Entries 51
Mean 0.02717
Std Dev 0.9683


asym_at1_avg_correction_rms vs run
χ² / ndf 2603 / 50
p0 449.5 ± 0.4422
500
480
460
440
420
400
380
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
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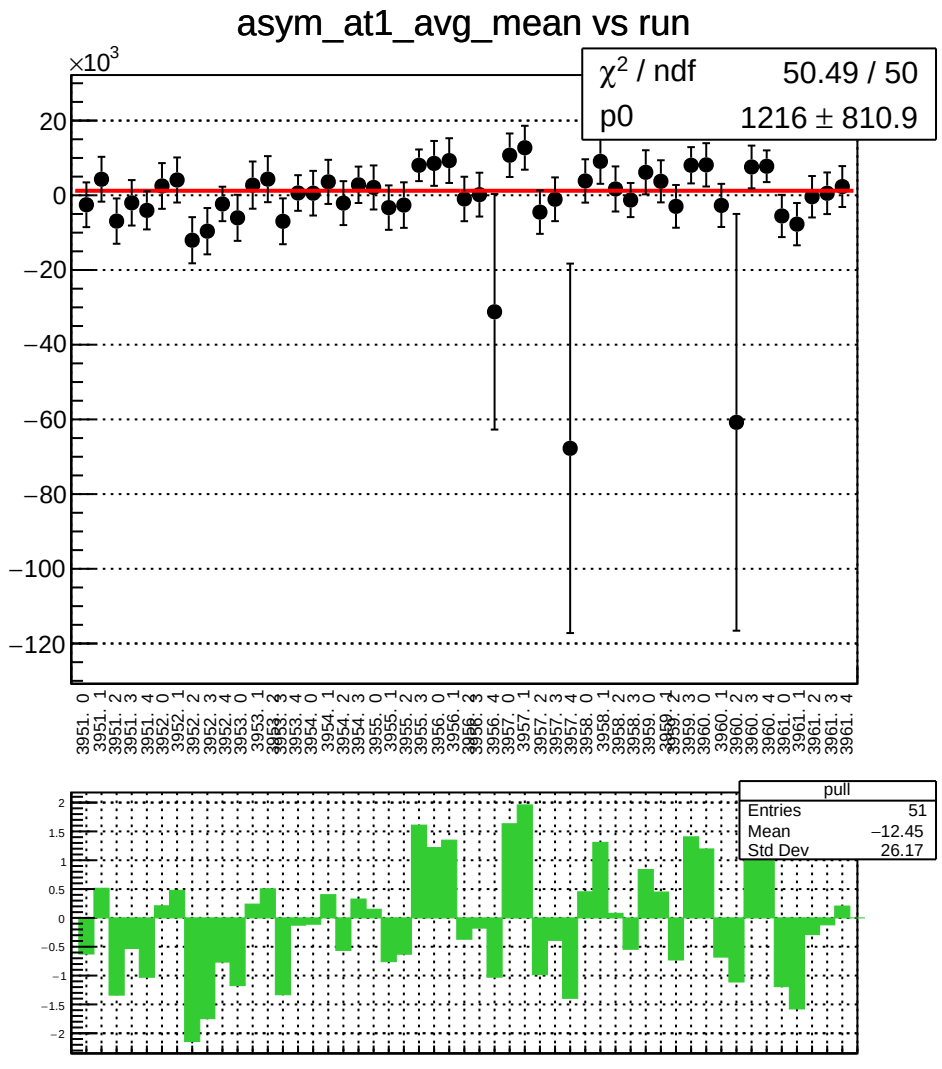
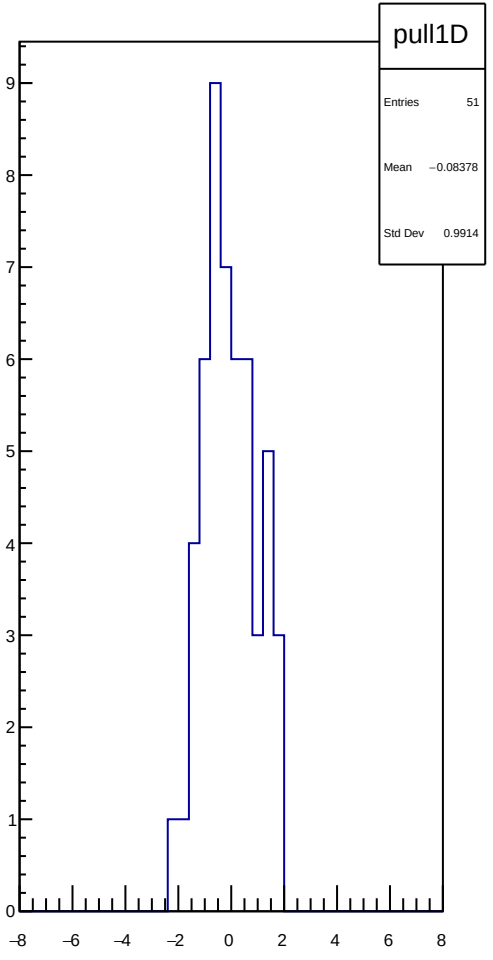
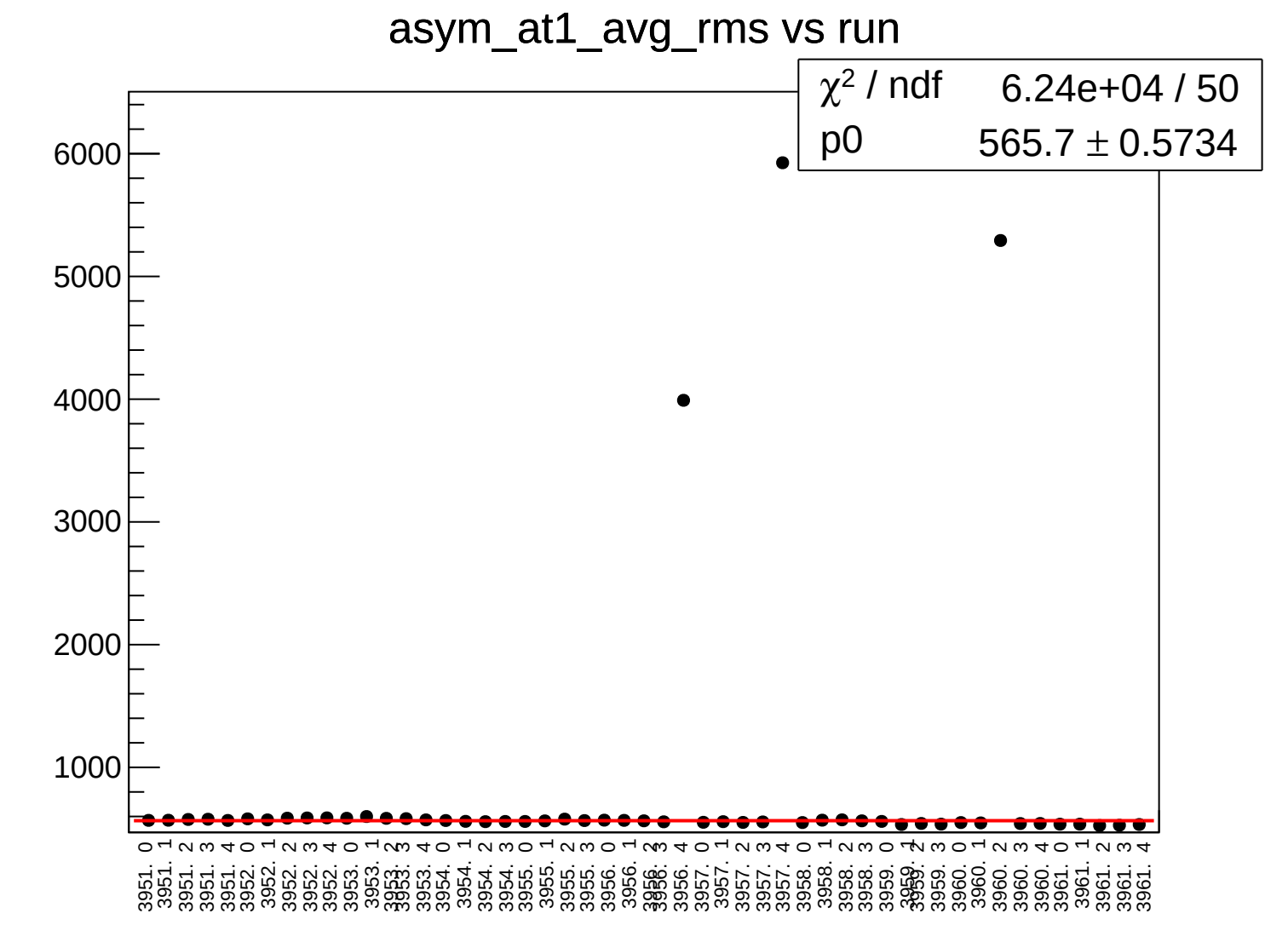
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_at1_avg_mean vs run
×10^3
χ² / ndf 50.49 / 50
p0 1216 ± 810.9
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 51
Mean −12.45
Std Dev 26.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.08378
Std Dev 0.9914
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_rms vs run
χ² / ndf 6.24e+04 / 50
p0 565.7 ± 0.5734
6000
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
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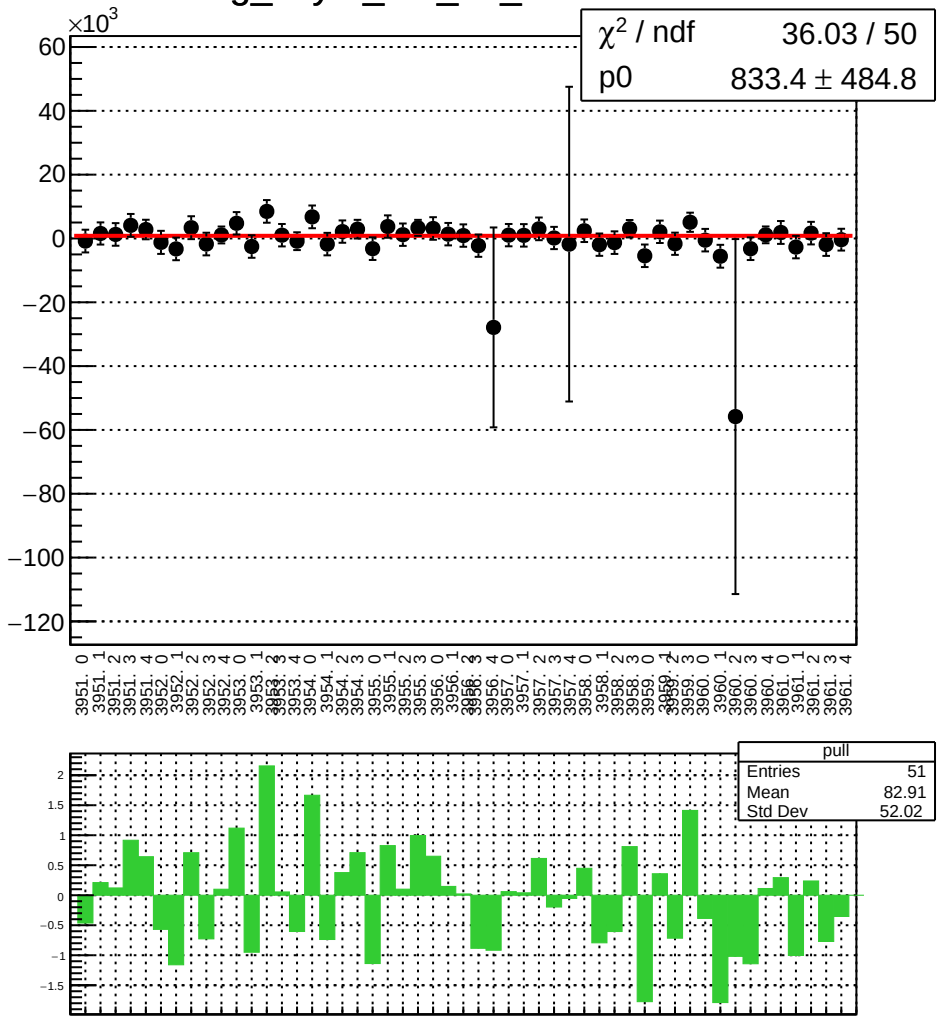
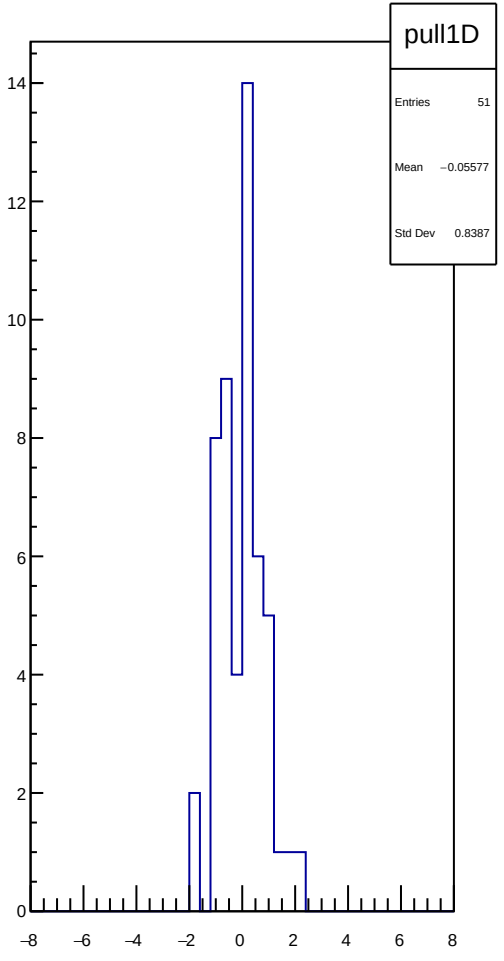
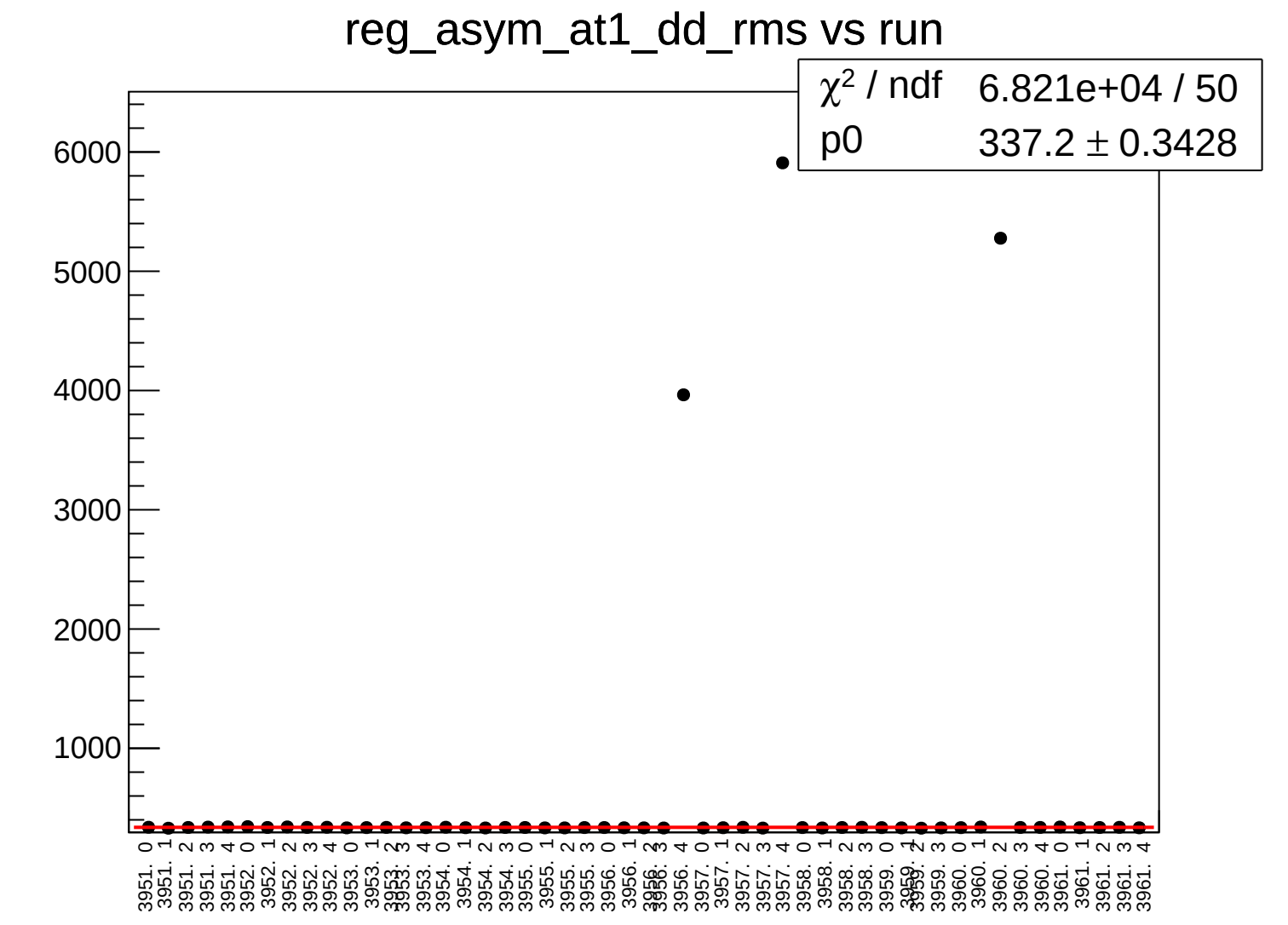
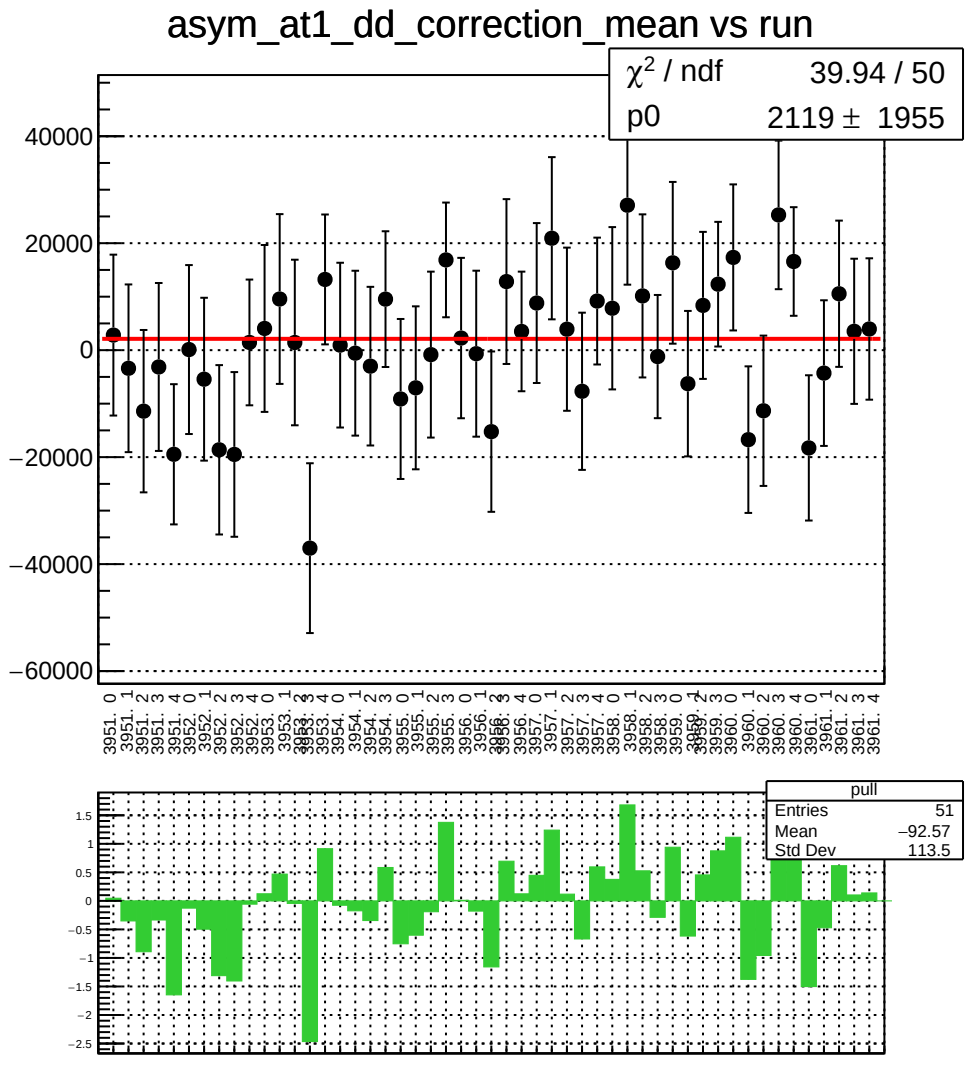
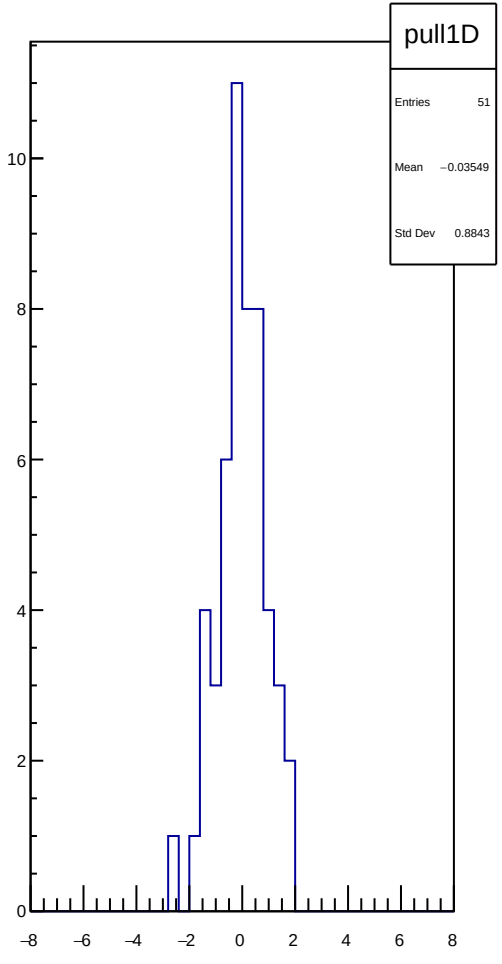
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

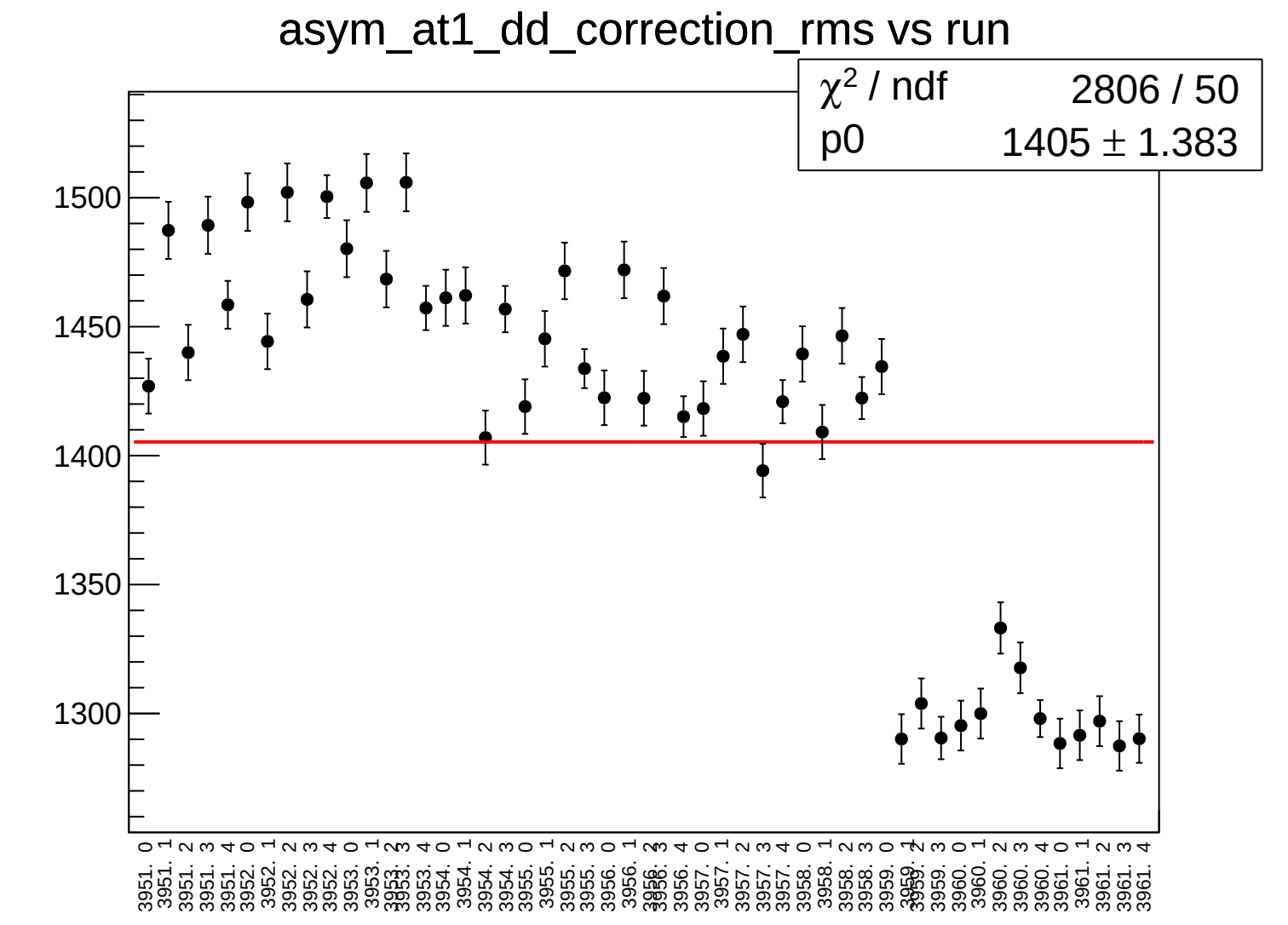

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 36.03 / 50
p0 833.4 ± 484.8
pull
Entries 51
Mean 82.91
Std Dev 52.02

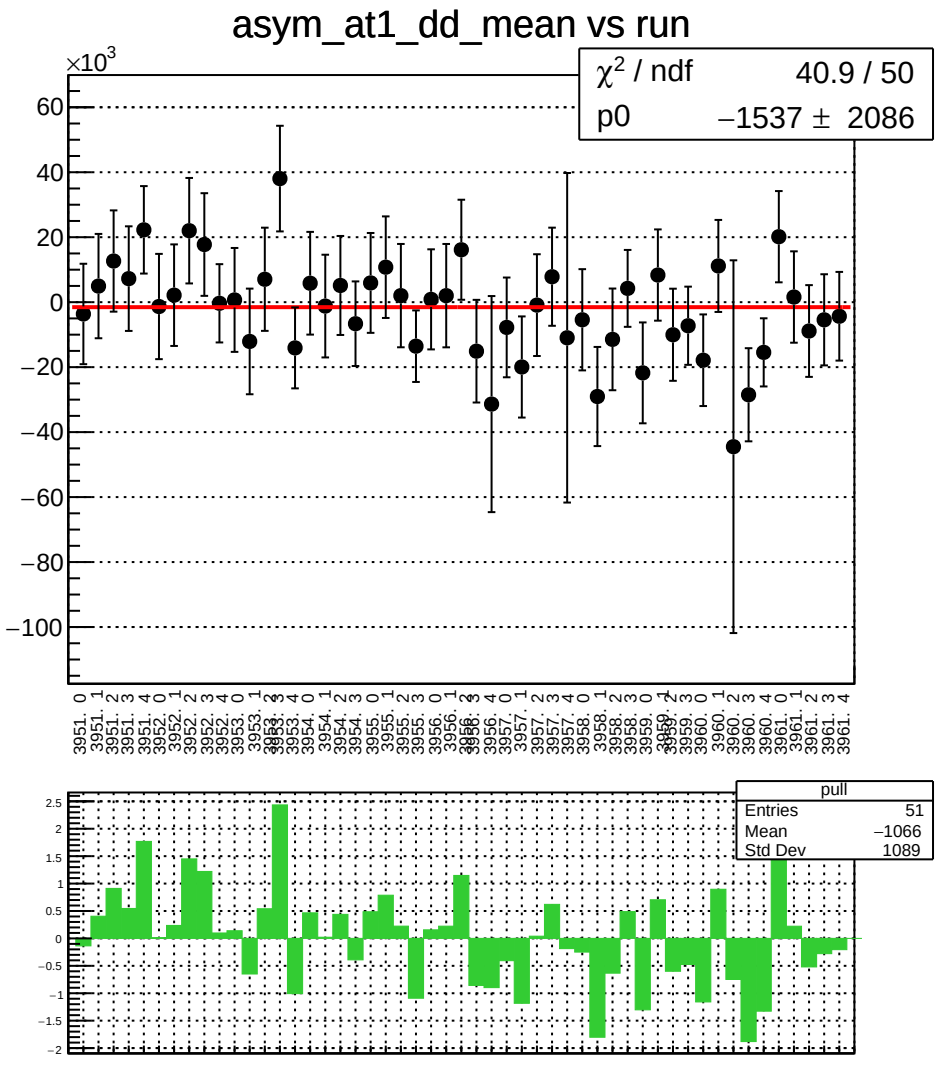

pull1D
Entries 51
Mean −0.05577
Std Dev 0.8387

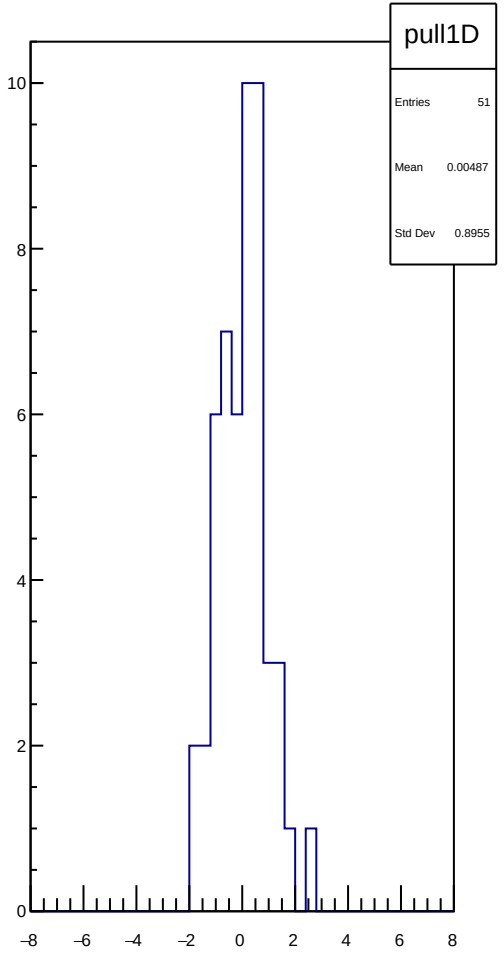

reg_asym_at1_dd_rms vs run
χ² / ndf 6.821e+04 / 50
p0 337.2 ± 0.3428
6000
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

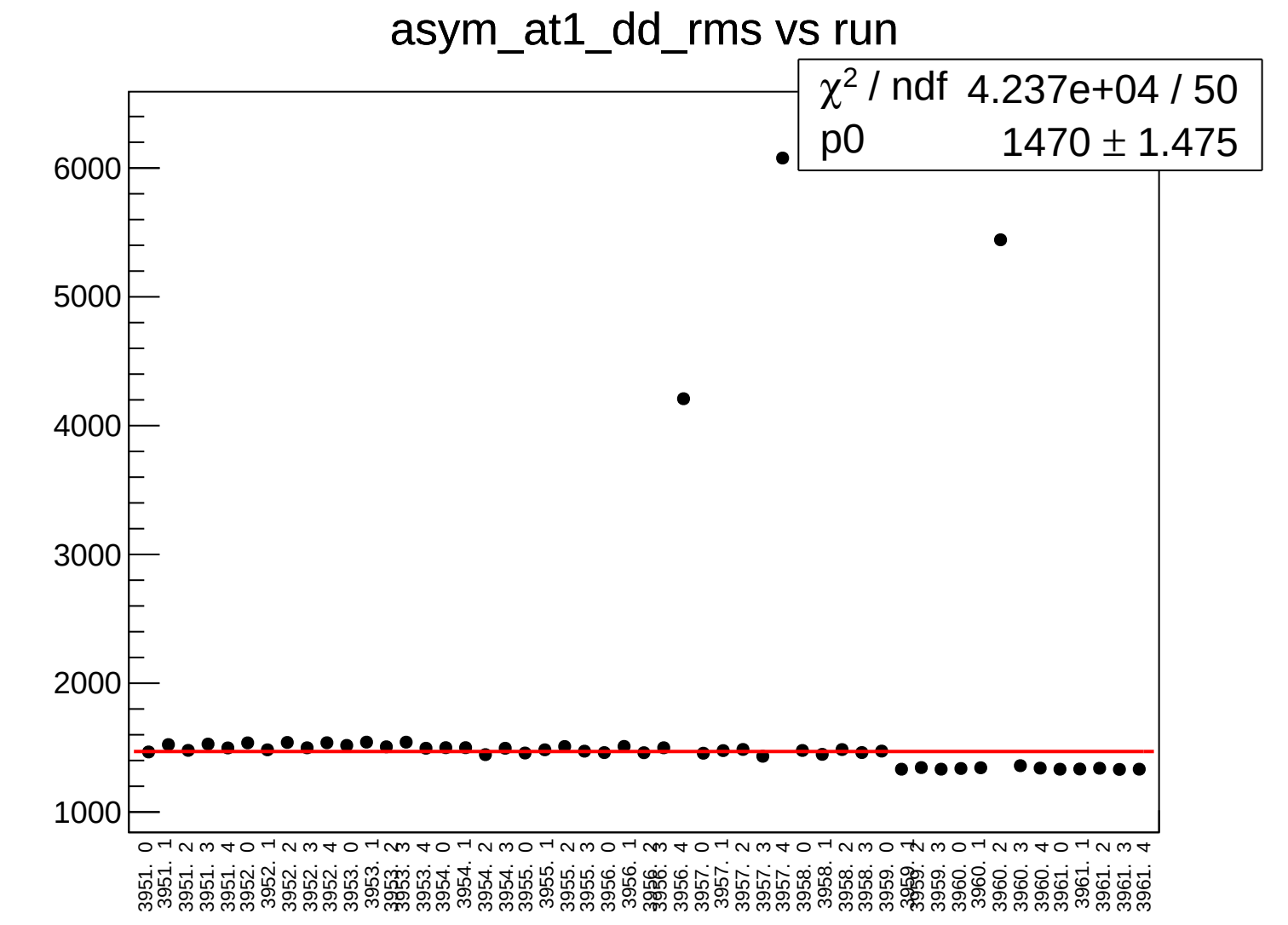

asym_at1_dd_correction_mean vs run
χ² / ndf 39.94 / 50
p0 2119 ± 1955
pull
Entries 51
Mean −92.57
Std Dev 113.5

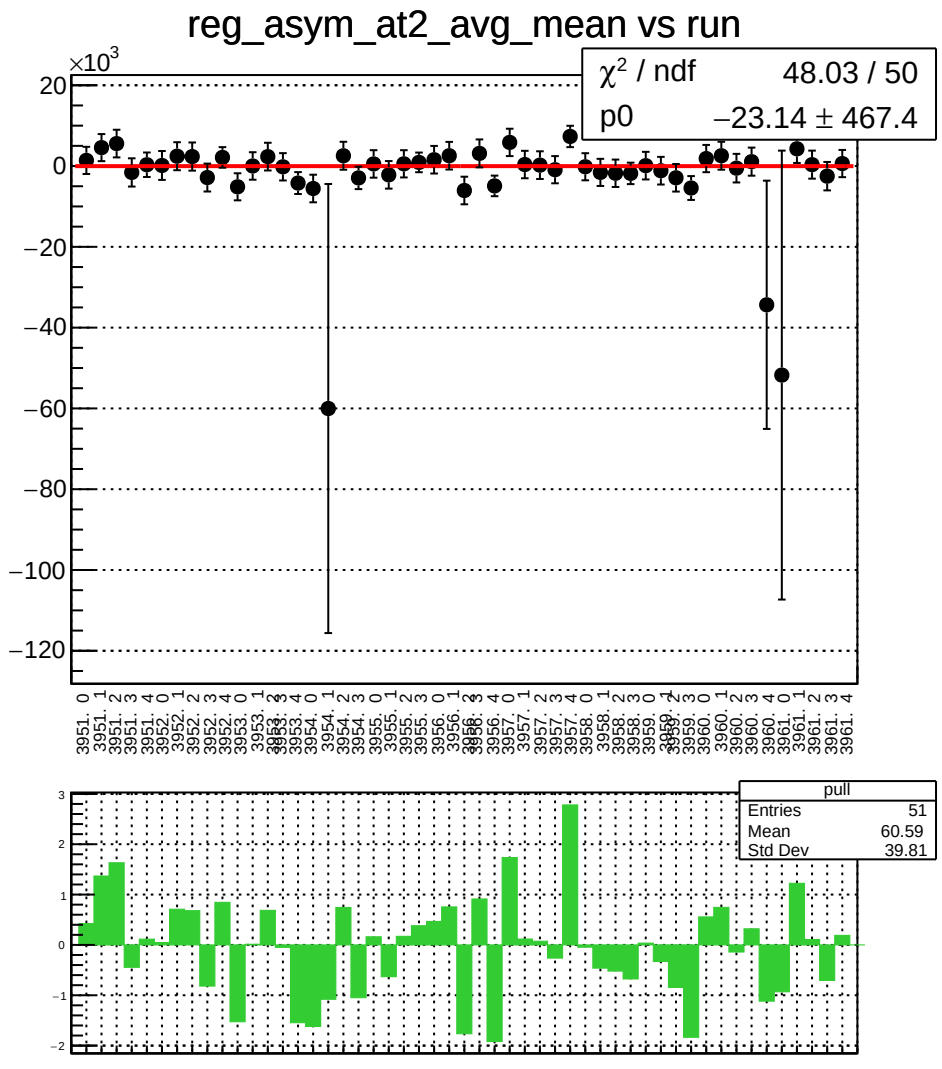

pull1D
Entries 51
Mean −0.03549
Std Dev 0.8843

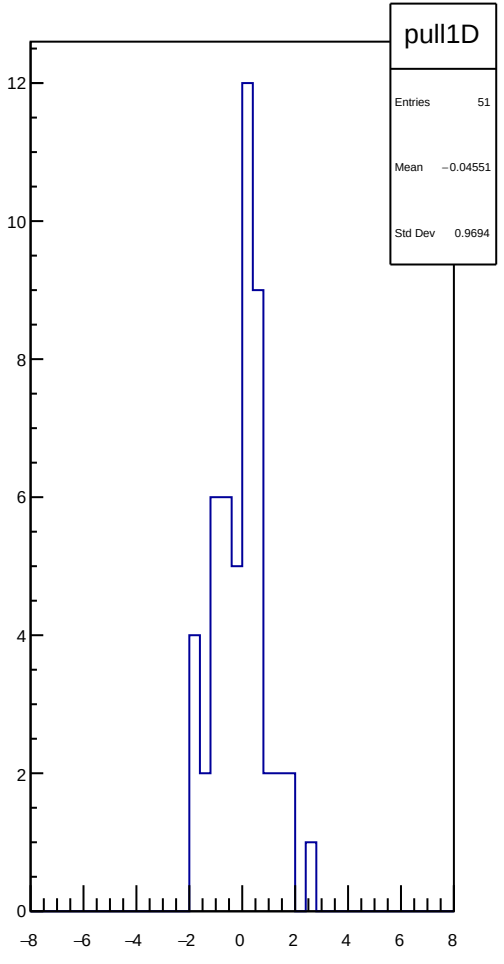

asym_at1_dd_correction_rms vs run
χ² / ndf 2806 / 50
p0 1405 ± 1.383
1500
1450
1400
1350
1300
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

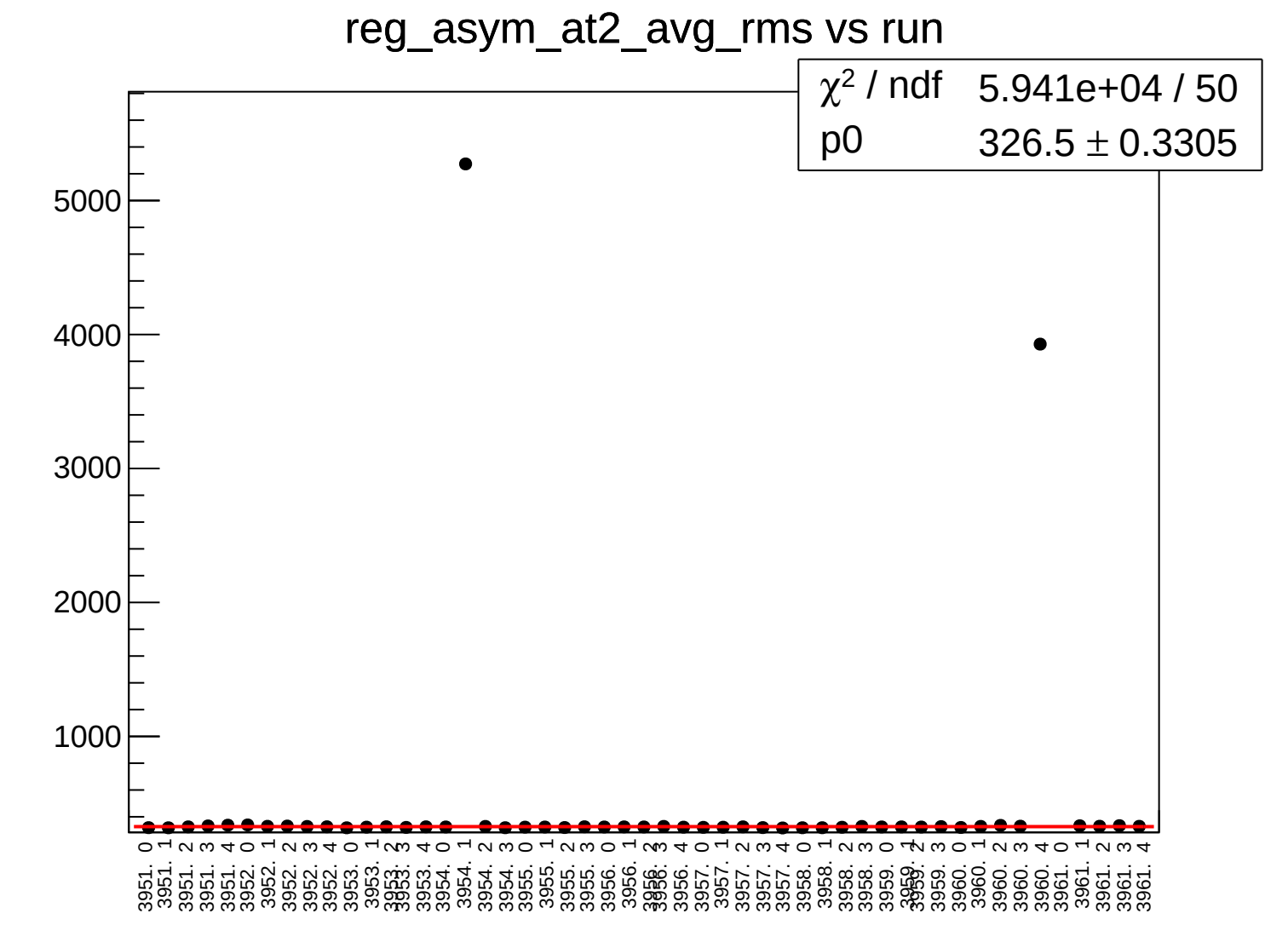

asym_at1_dd_mean vs run
×10^3
χ² / ndf 40.9 / 50
p0 −1537 ± 2086
pull
Entries 51
Mean −1066
Std Dev 1089

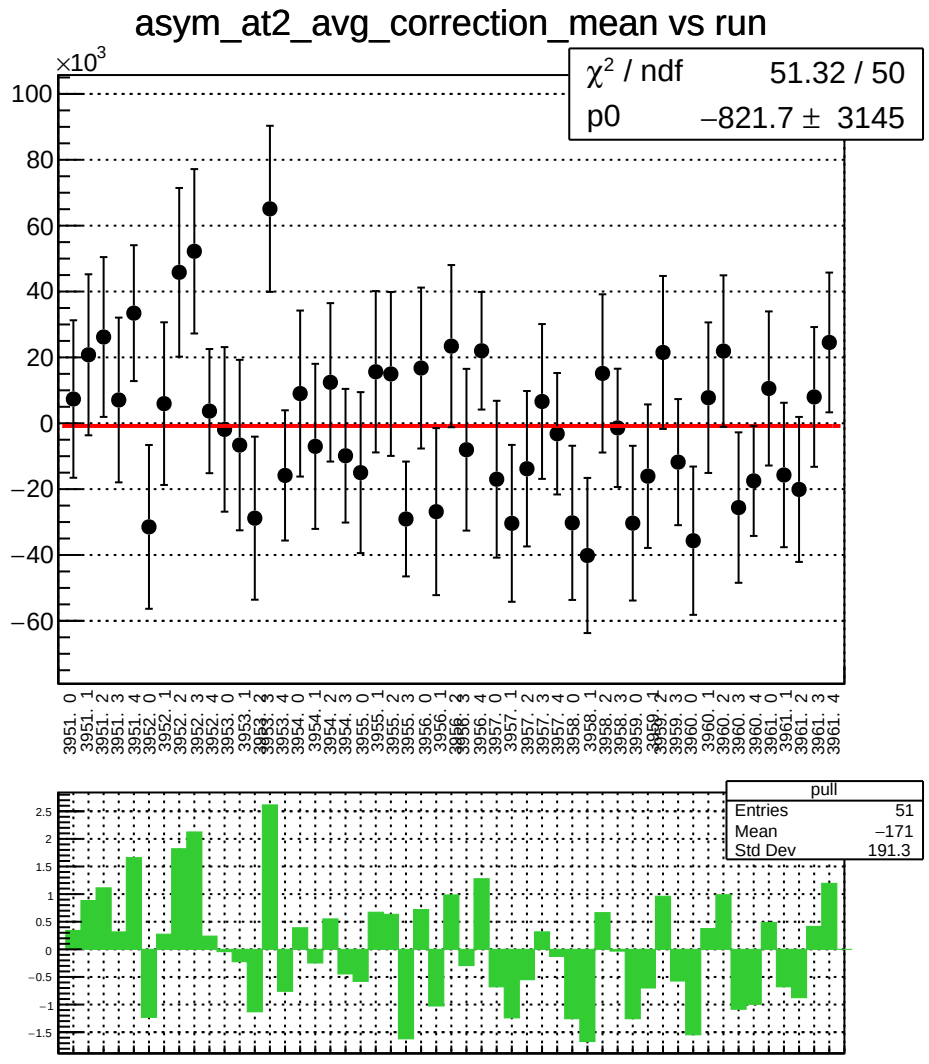

pull1D
Entries 51
Mean 0.00487
Std Dev 0.8955

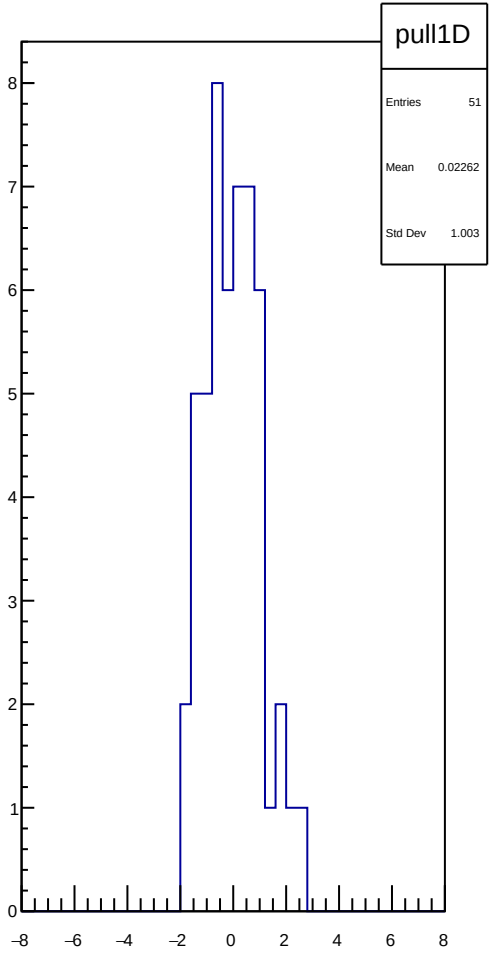

asym_at1_dd_rms vs run
χ² / ndf 4.237e+04 / 50
p0 1470 ± 1.475
6000
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

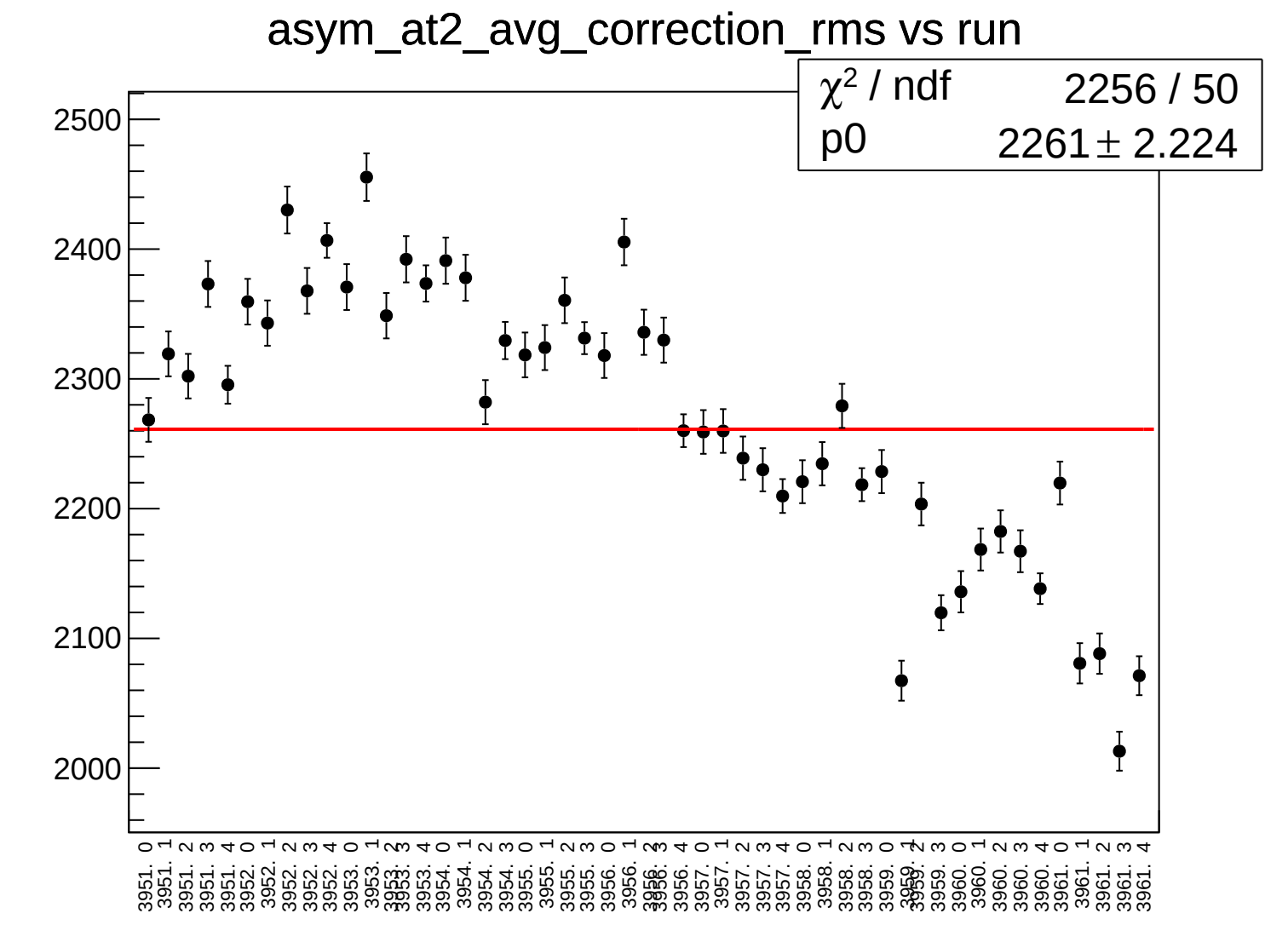

reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 48.03 / 50
p0 −23.14 ± 467.4
pull
Entries 51
Mean 60.59
Std Dev 39.81

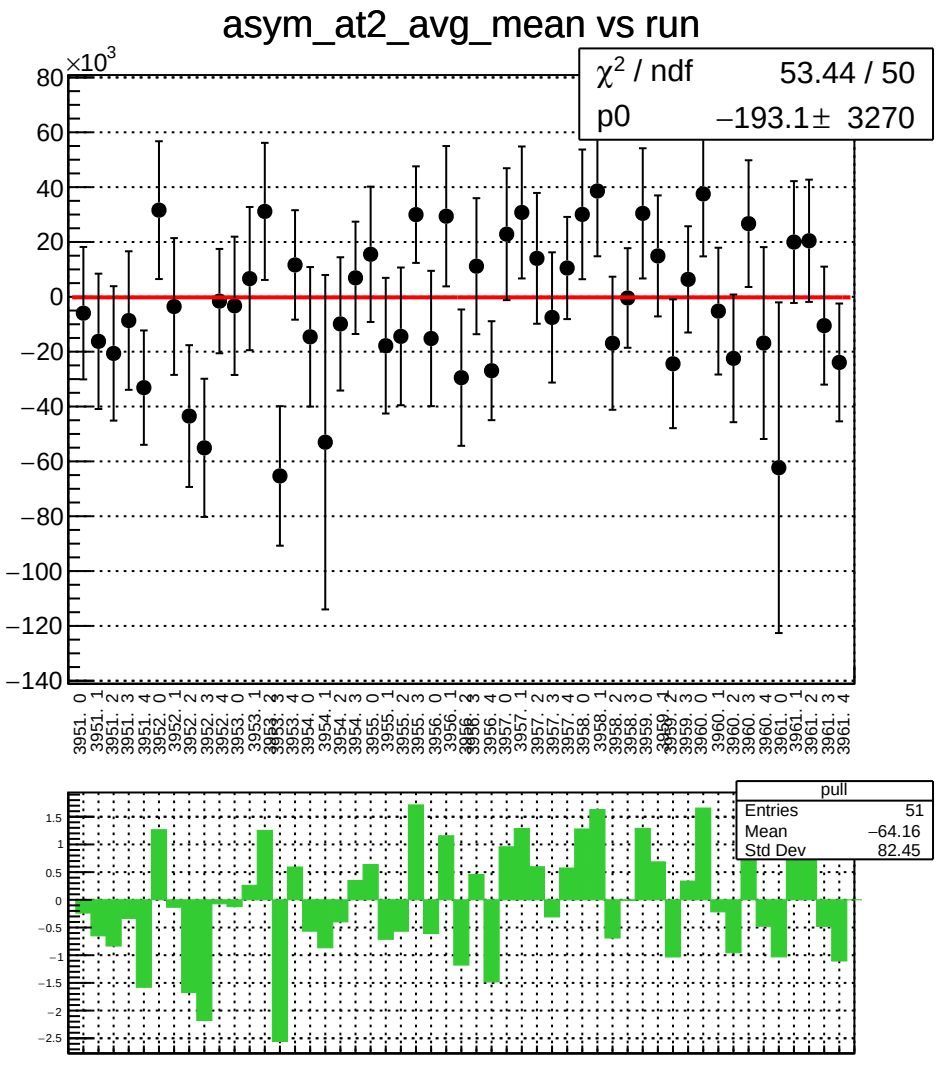

pull1D
Entries 51
Mean −0.04551
Std Dev 0.9694

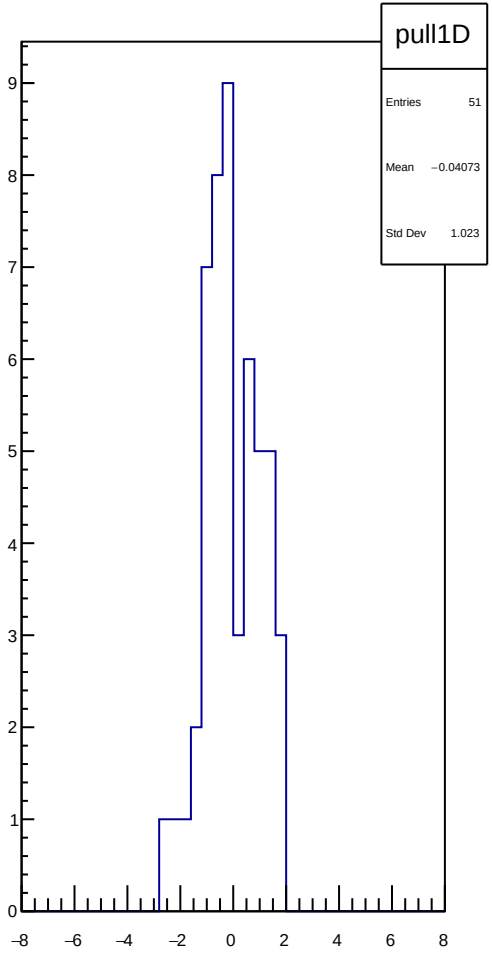

reg_asym_at2_avg_rms vs run
χ² / ndf 5.941e+04 / 50
p0 326.5 ± 0.3305
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

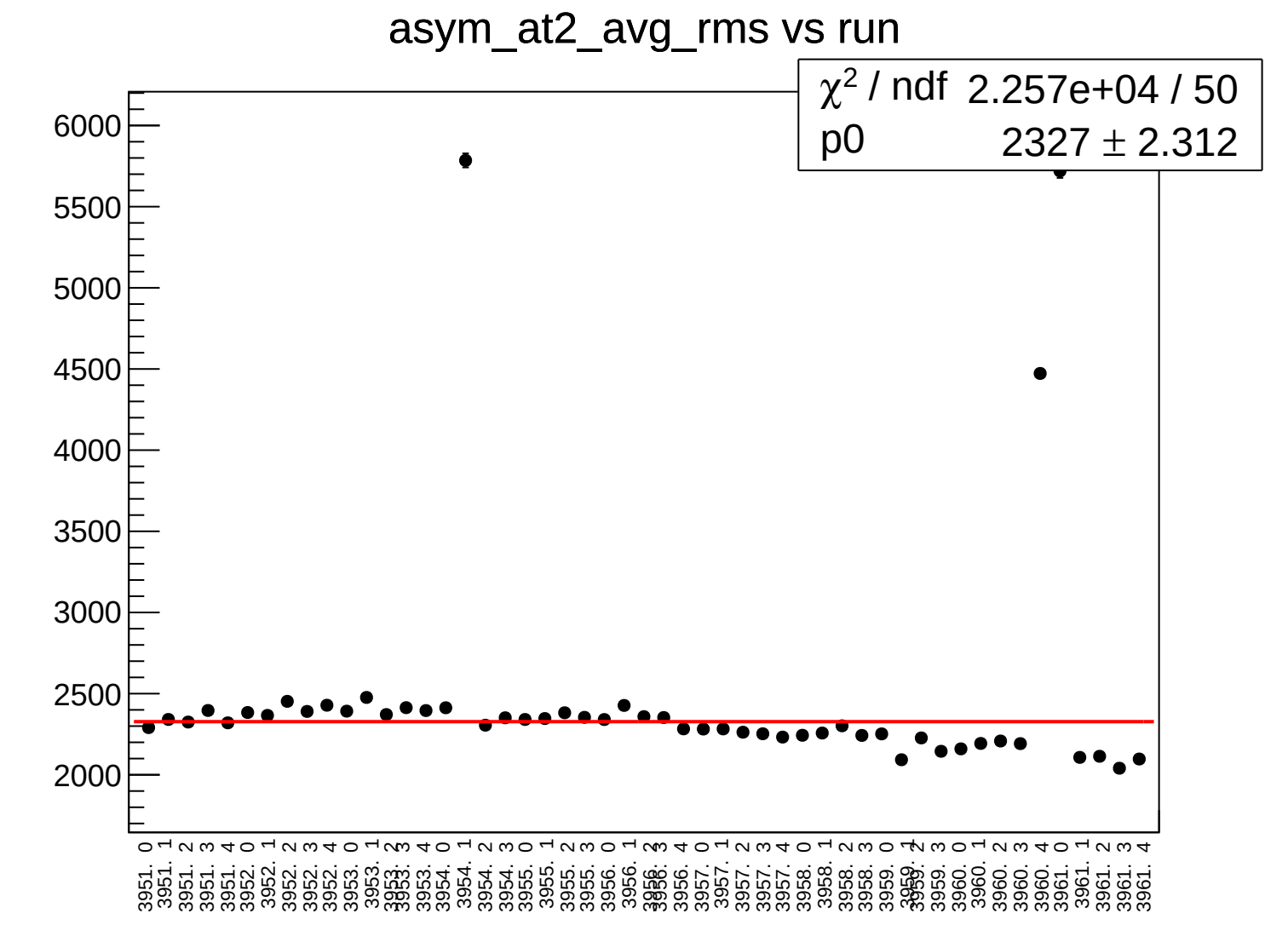

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 51.32 / 50
p0 −821.7 ± 3145
pull
Entries 51
Mean −171
Std Dev 191.3

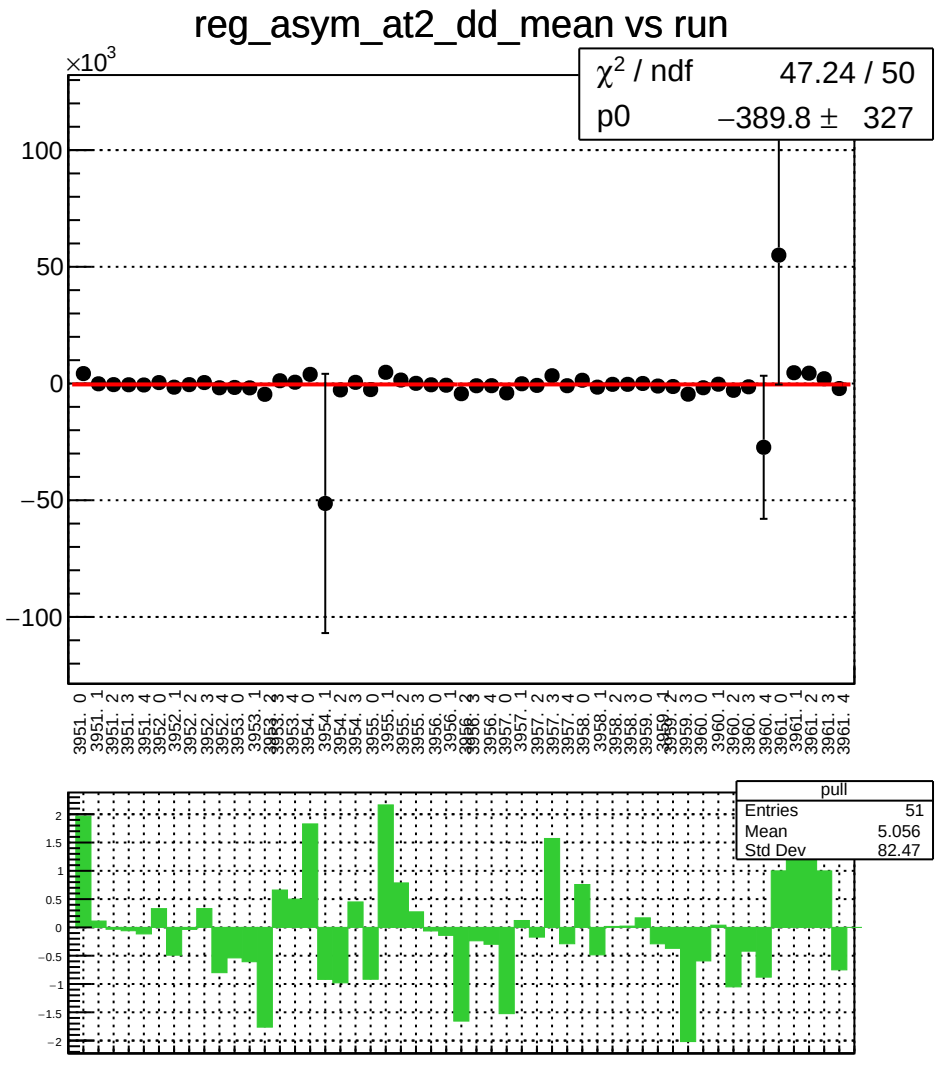

pull1D
Entries 51
Mean 0.02262
Std Dev 1.003

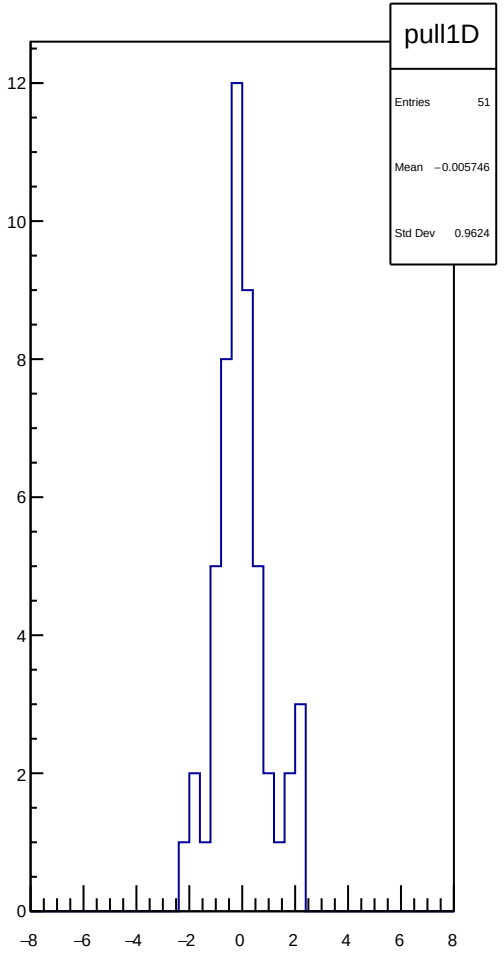

asym_at2_avg_correction_rms vs run
χ² / ndf 2256 / 50
p0 2261 ± 2.224
2500
2400
2300
2200
2100
2000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

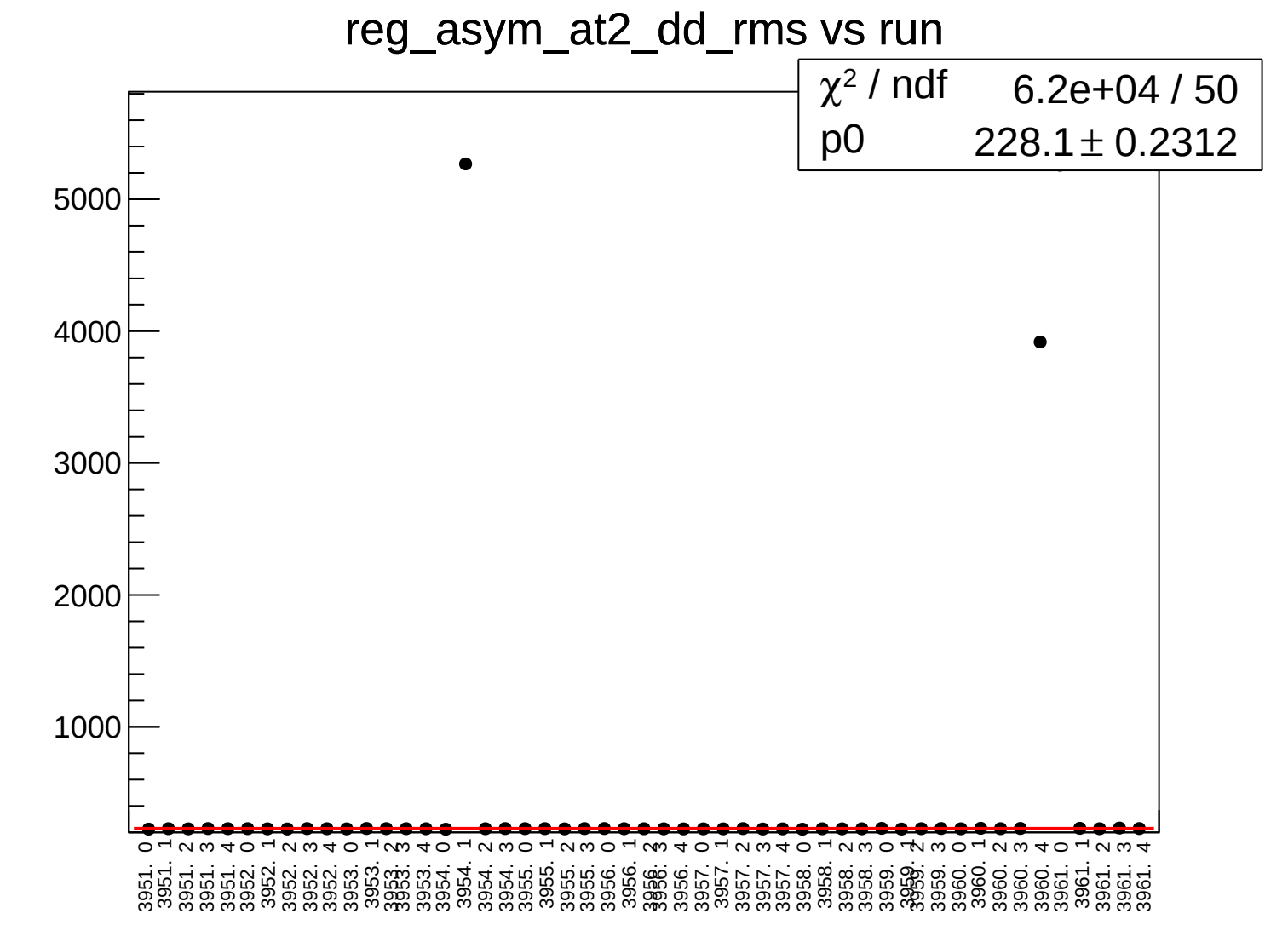

asym_at2_avg_mean vs run
×10^3
χ² / ndf 53.44 / 50
p0 −193.1± 3270
pull
Entries 51
Mean −64.16
Std Dev 82.45

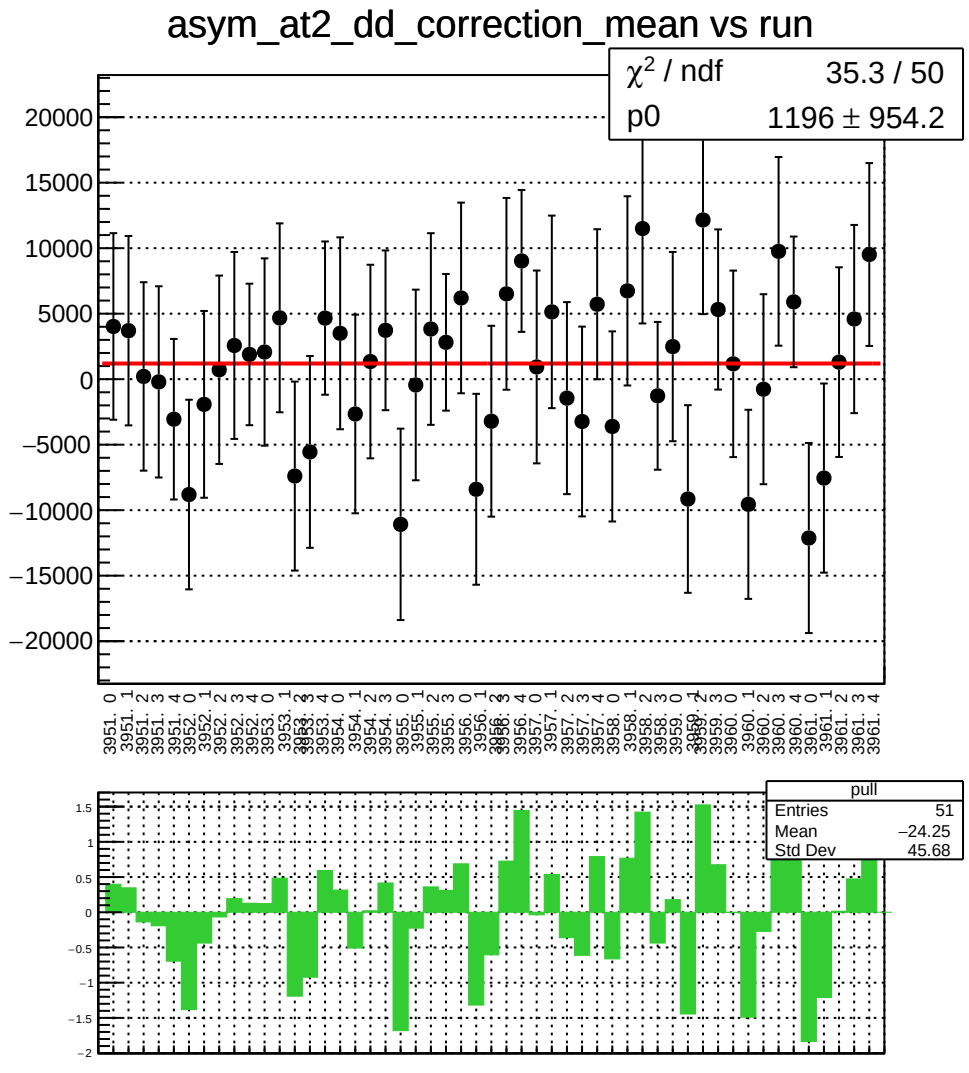

pull1D
Entries 51
Mean −0.04073
Std Dev 1.023

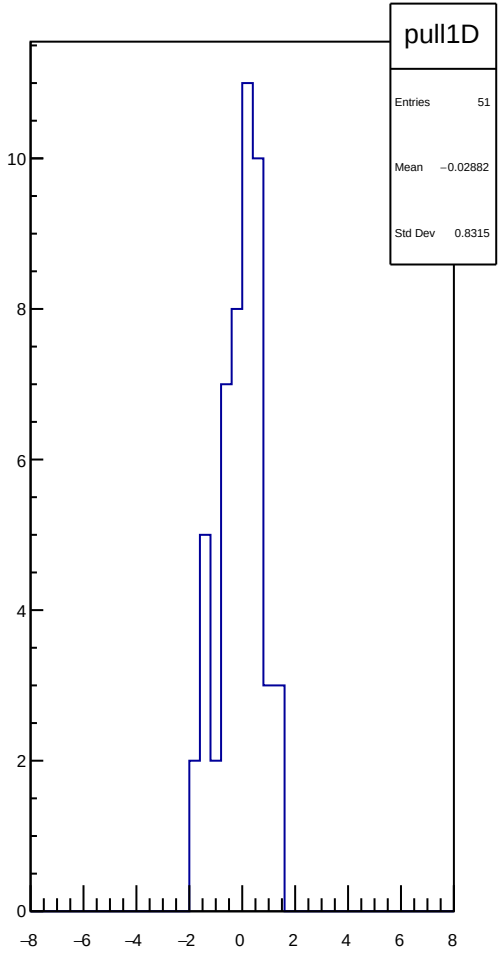

asym_at2_avg_rms vs run
χ² / ndf 2.257e+04 / 50
p0 2327 ± 2.312
6000
5500
5000
4500
4000
3500
3000
2500
2000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

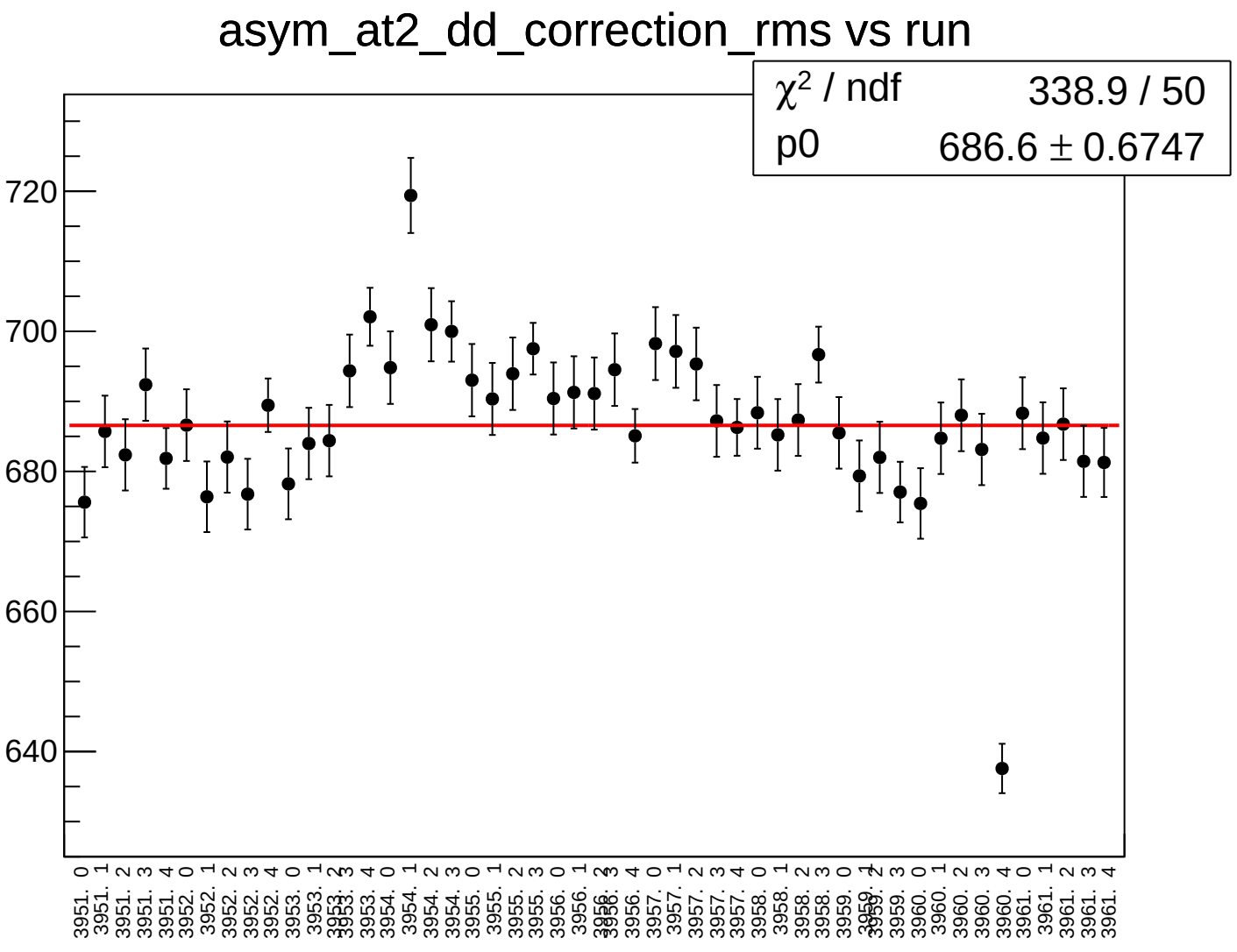

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 47.24 / 50
p0 −389.8 ± 327
100
50
0
−50
−100
pull
Entries 51
Mean 5.056
Std Dev 82.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.005746
Std Dev 0.9624
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_rms vs run
χ² / ndf 6.2e+04 / 50
p0 228.1 ± 0.2312
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_at2_dd_correction_mean vs run
χ² / ndf 35.3 / 50
p0 1196 ± 954.2
pull
Entries 51
Mean −24.25
Std Dev 45.68


pull1D
Entries 51
Mean −0.02882
Std Dev 0.8315


asym_at2_dd_correction_rms vs run
χ² / ndf 338.9 / 50
p0 686.6 ± 0.6747
720
700
680
660
640
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
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3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
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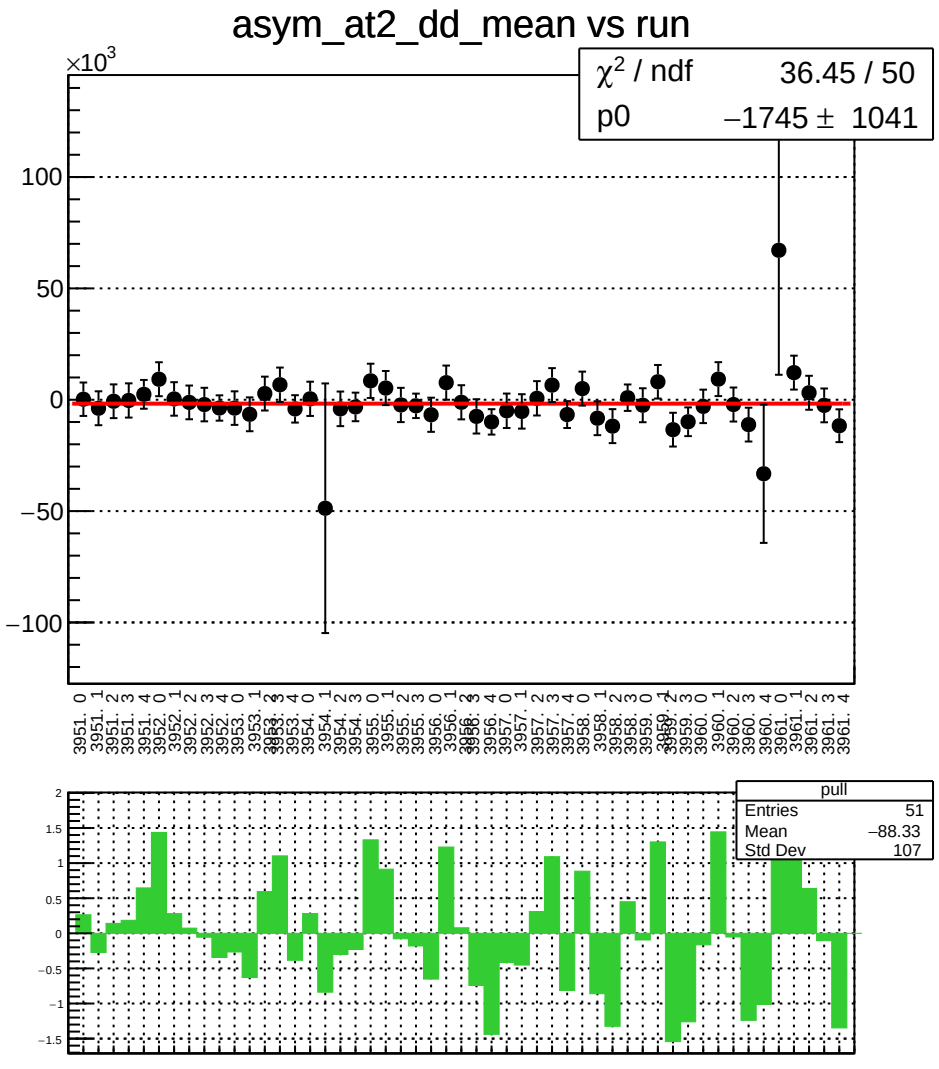
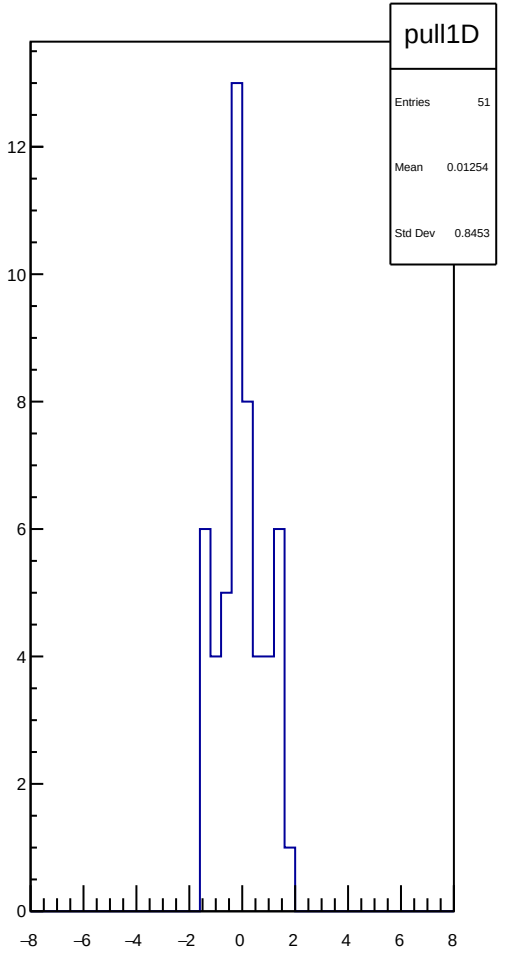
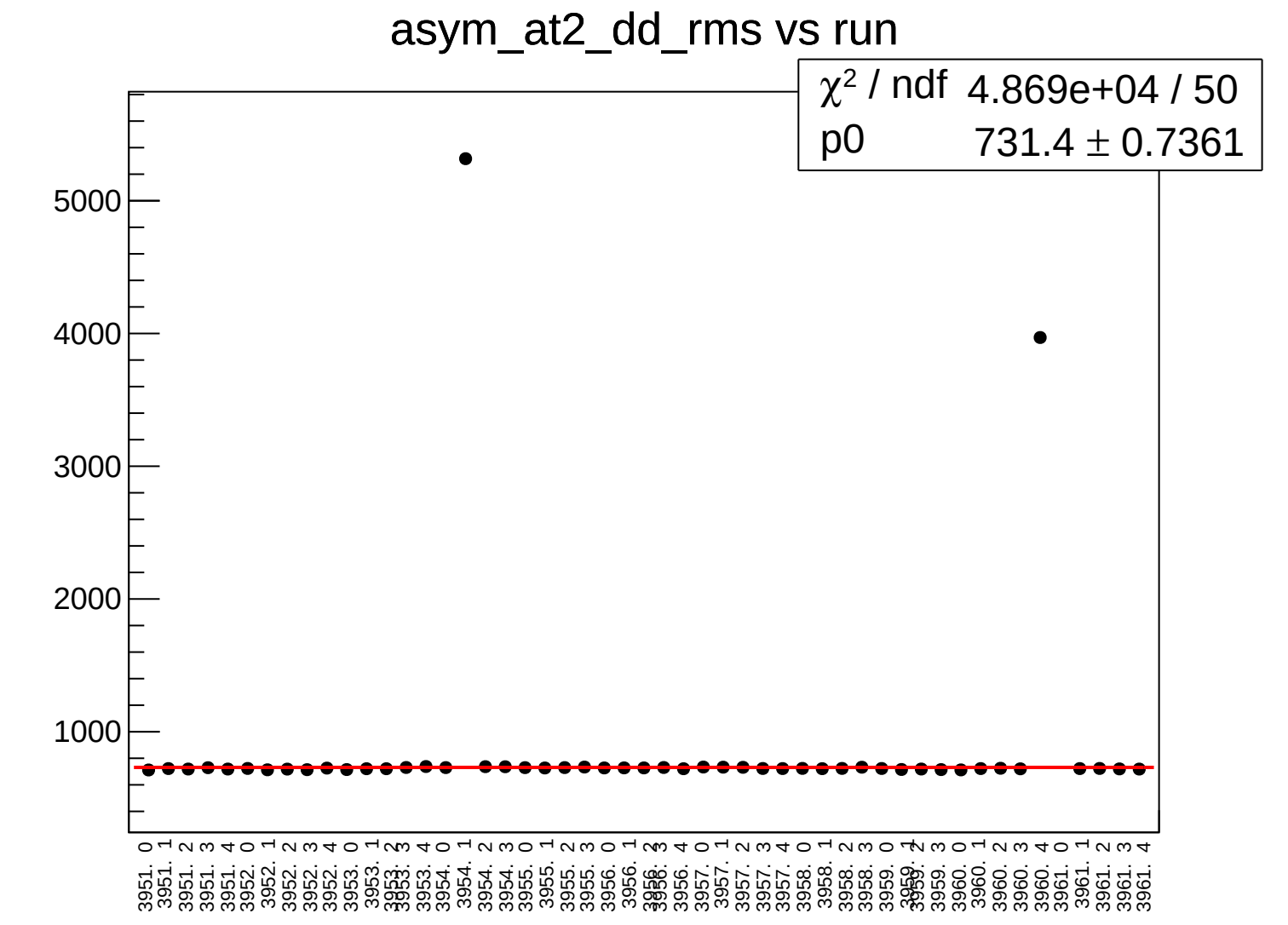
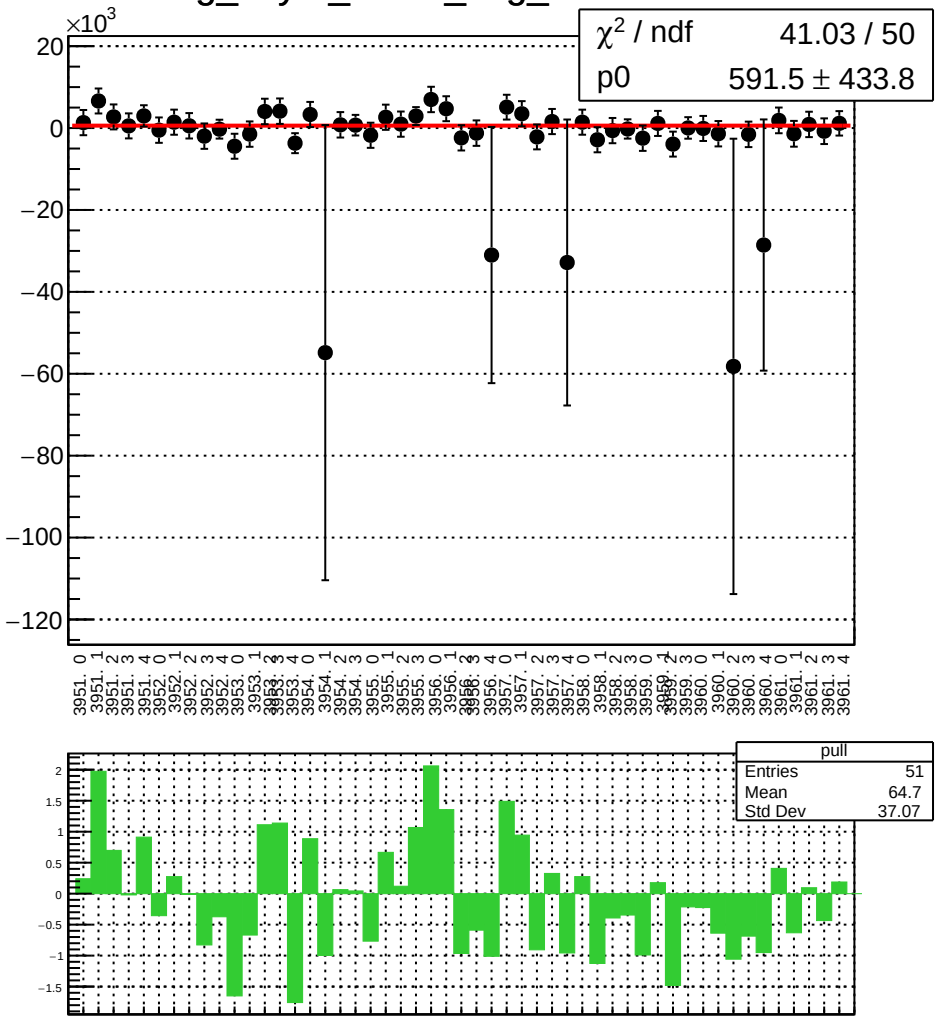
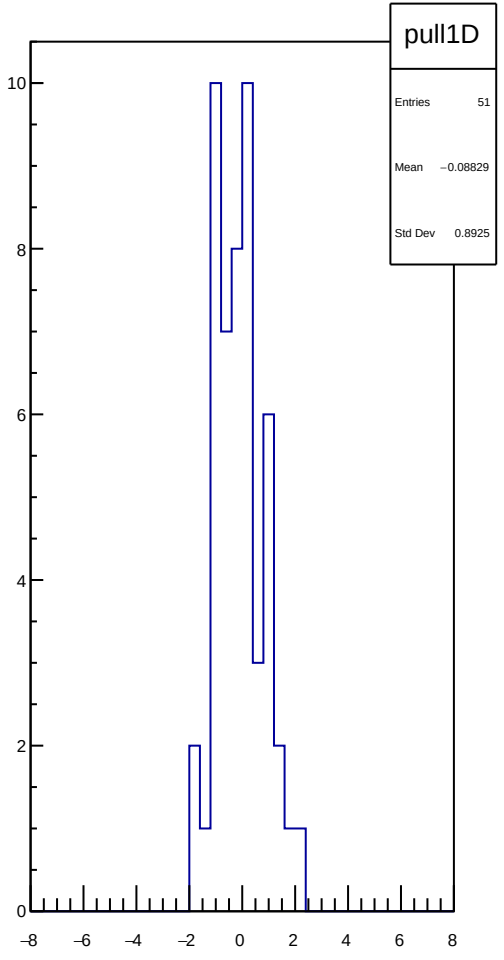
3961. 2
3961. 3
3961. 4

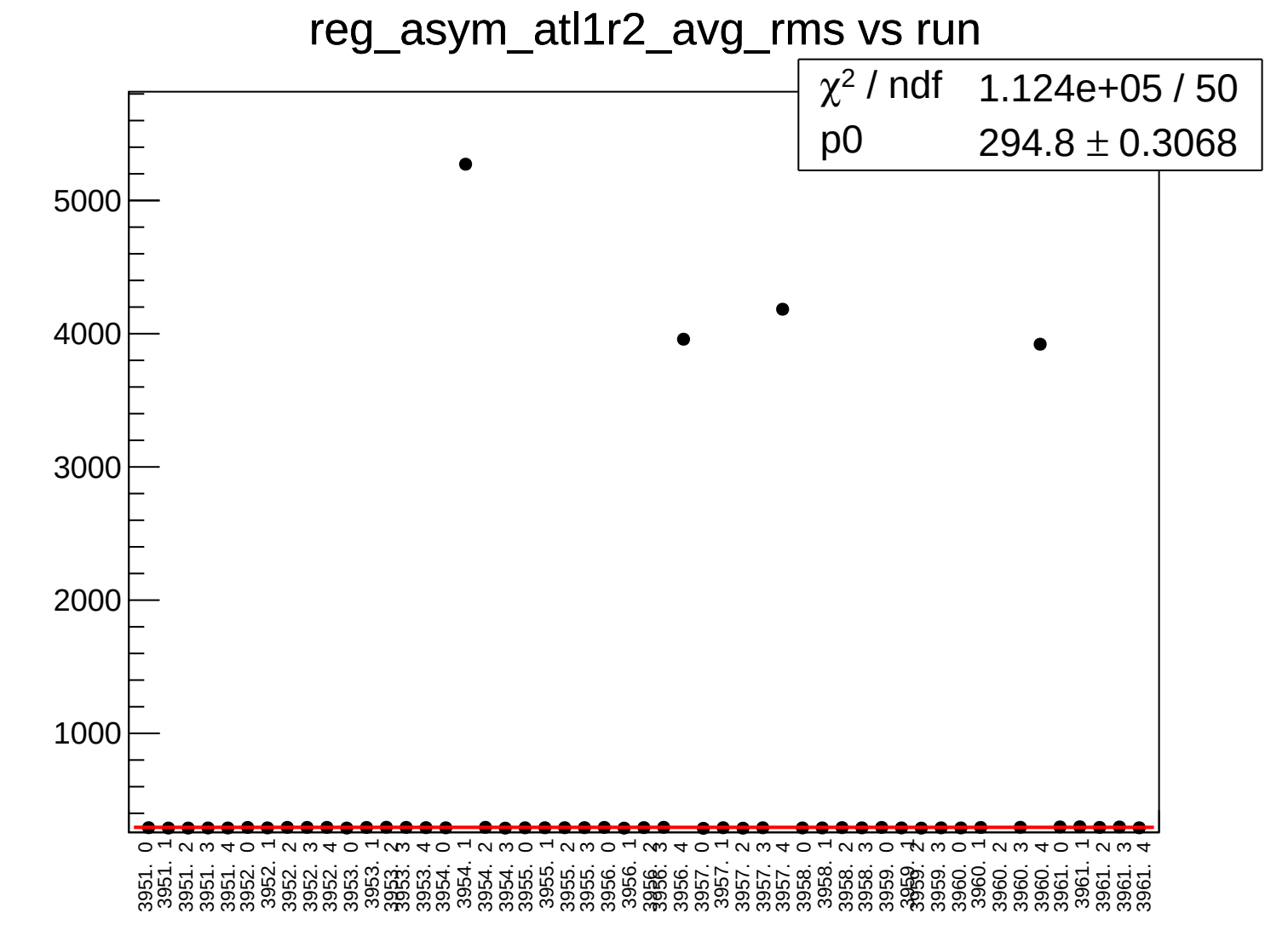

asym_at2_dd_mean vs run
×10^3
χ² / ndf 36.45 / 50
p0 −1745 ± 1041
100
50
0
−50
−100
pull
Entries 51
Mean −88.33
Std Dev 107
2
1.5
1
0.5
0
−0.5
−1
−1.5

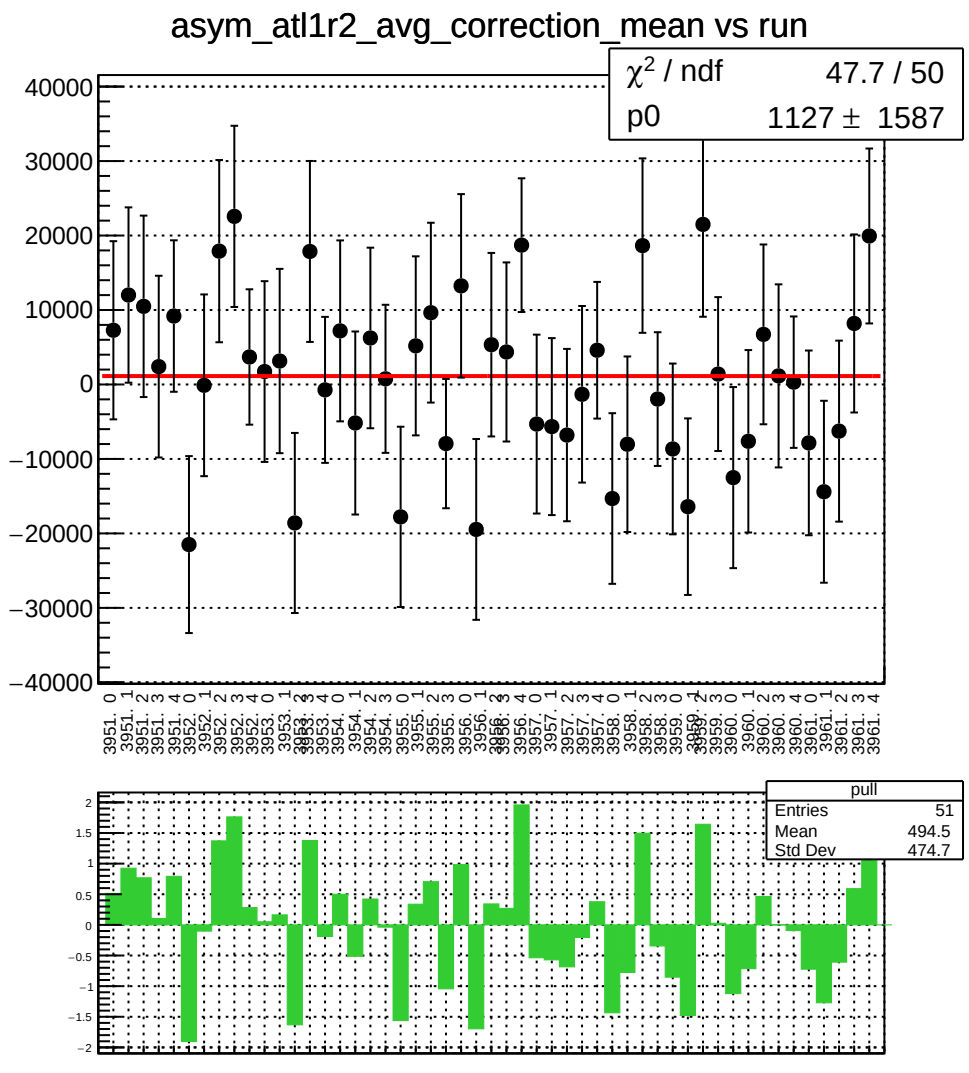

pull1D
Entries 51
Mean 0.01254
Std Dev 0.8453
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

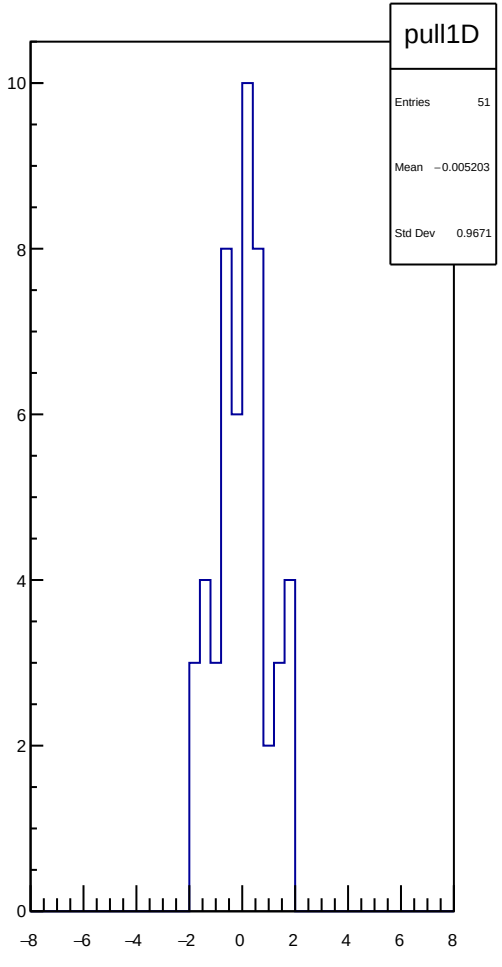

asym_at2_dd_rms vs run
χ² / ndf 4.869e+04 / 50
p0 731.4 ± 0.7361
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

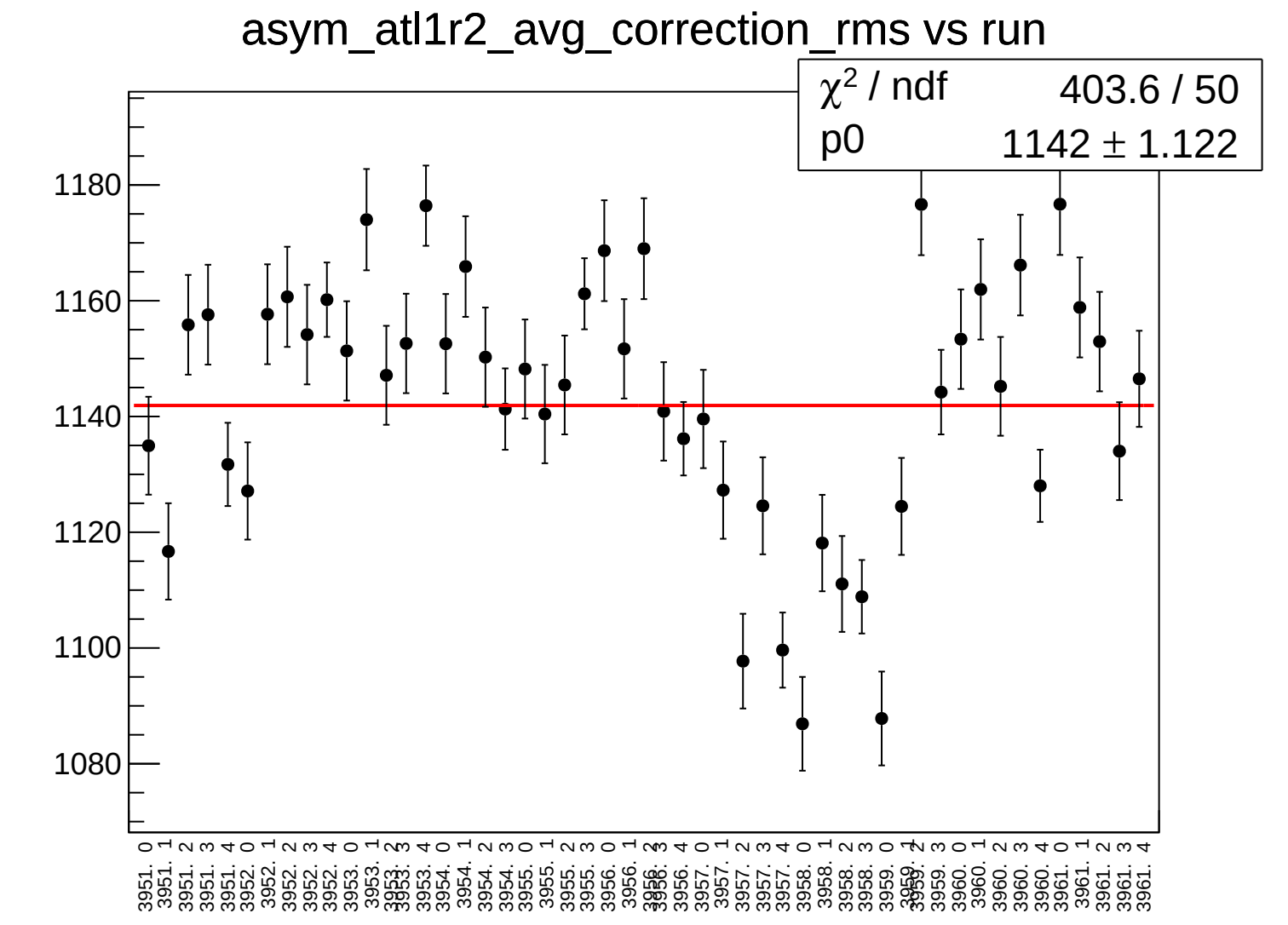

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 41.03 / 50
p0 591.5 ± 433.8
pull
Entries 51
Mean 64.7
Std Dev 37.07

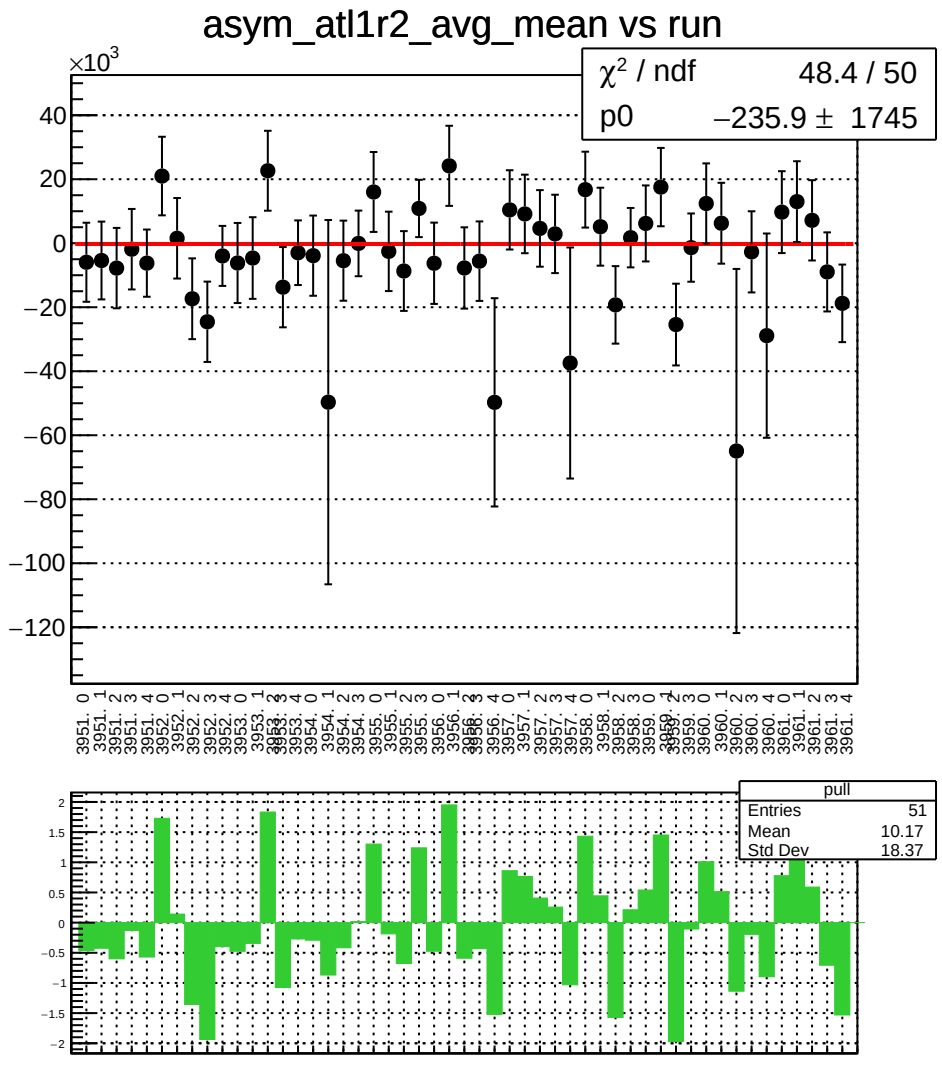

pull1D
Entries 51
Mean −0.08829
Std Dev 0.8925

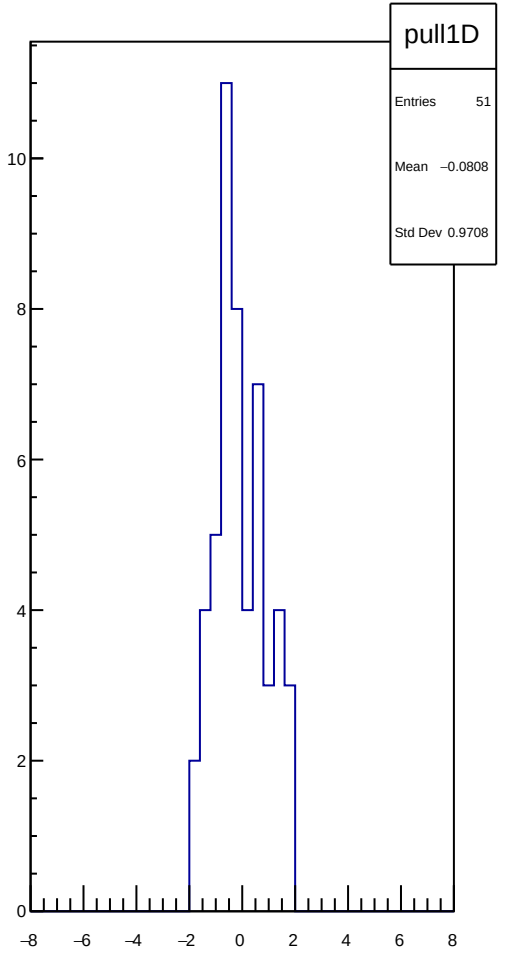

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.124e+05 / 50
p0 294.8 ± 0.3068
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

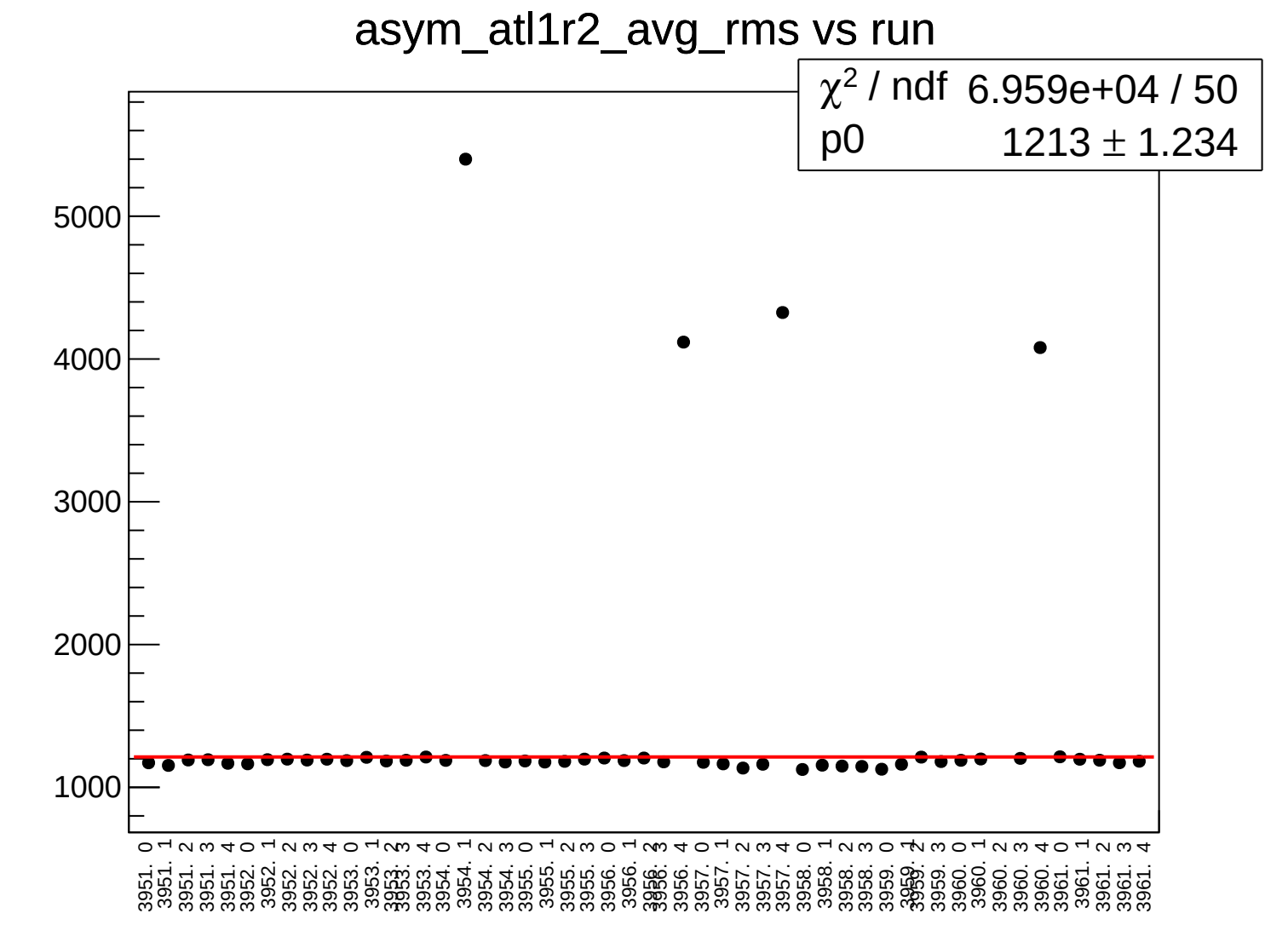

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 47.7 / 50
p0 1127 ± 1587
pull
Entries 51
Mean 494.5
Std Dev 474.7

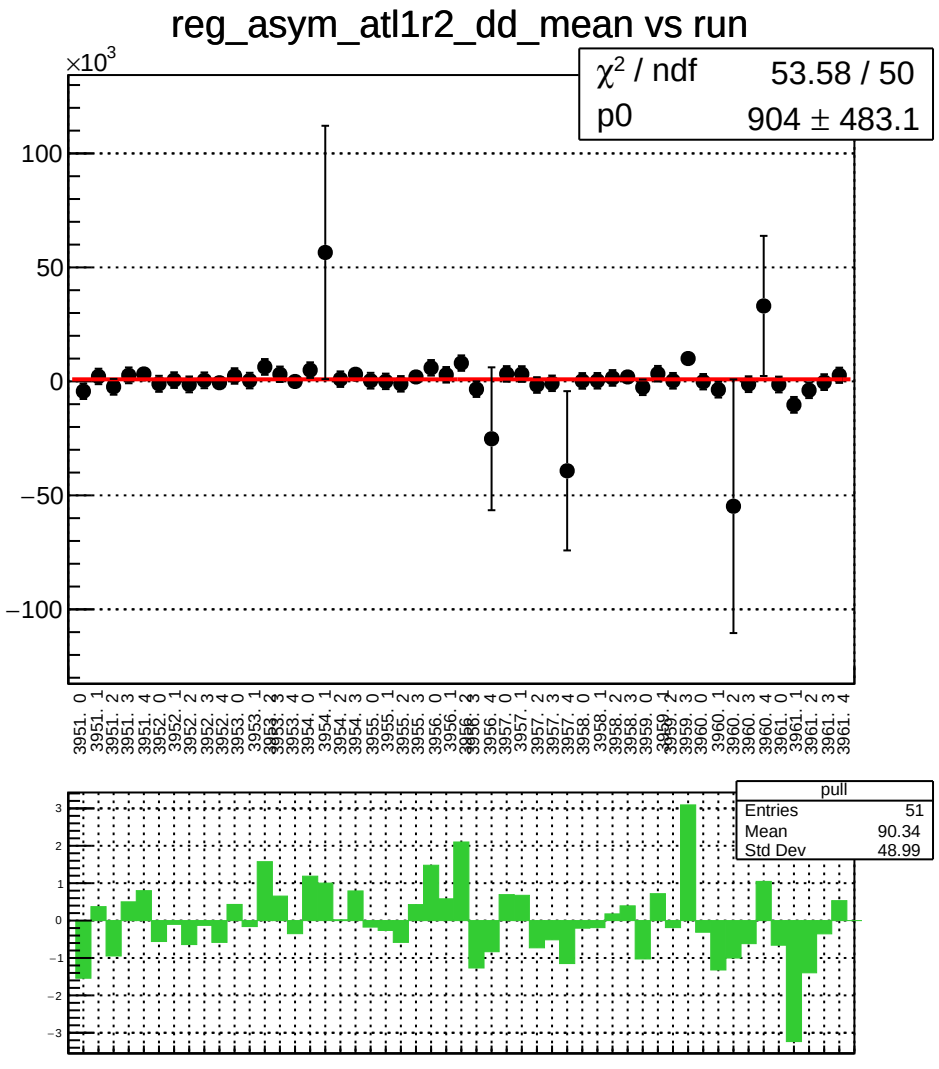

pull1D
Entries 51
Mean −0.005203
Std Dev 0.9671

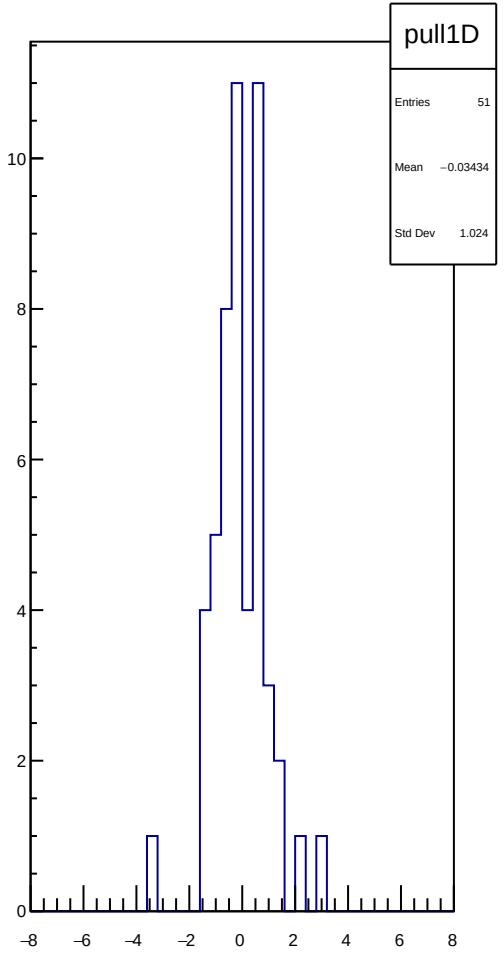

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 403.6 / 50
p0 1142 ± 1.122
1180
1160
1140
1120
1100
1080
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

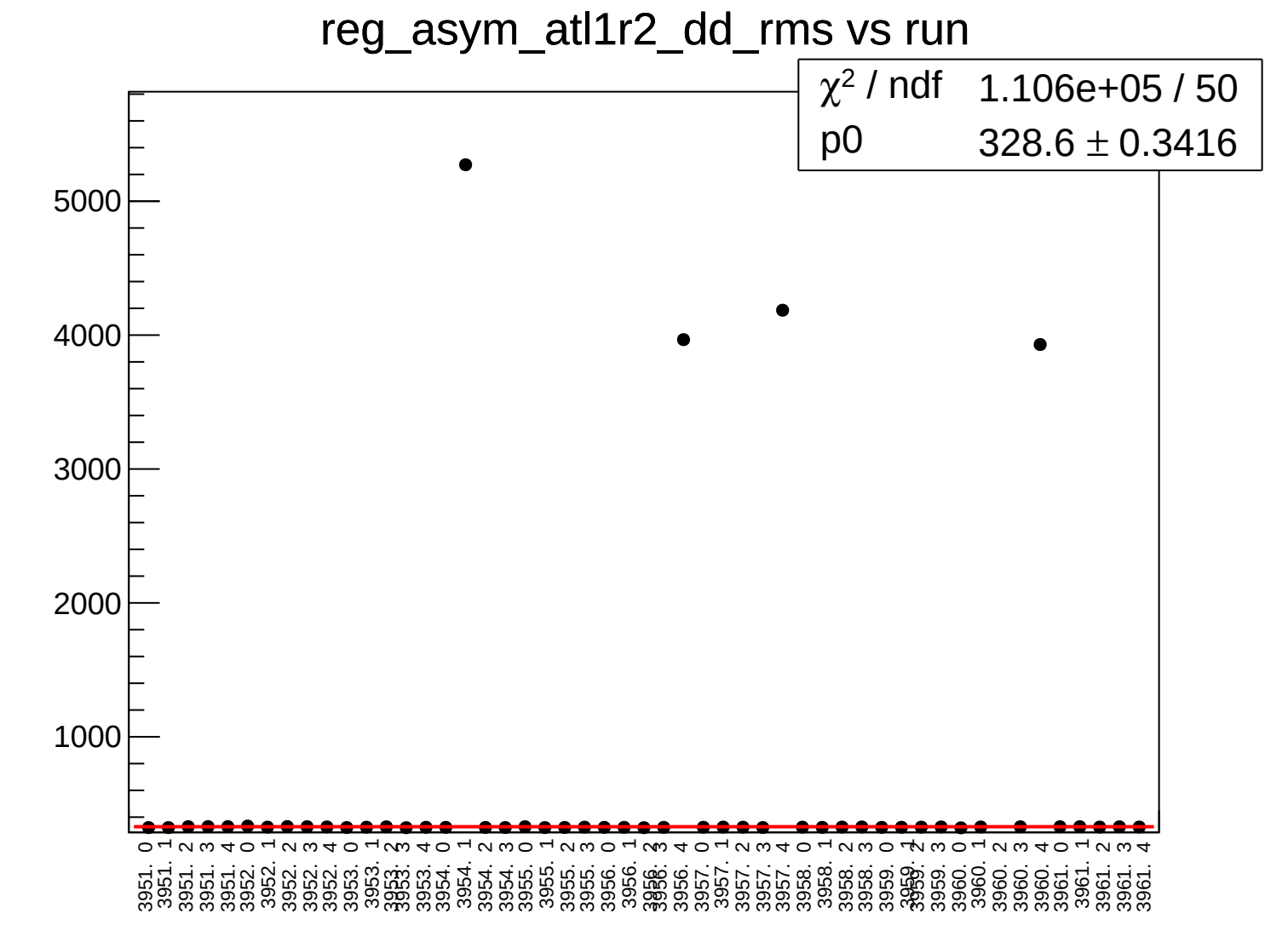

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 48.4 / 50
p0 −235.9 ± 1745
pull
Entries 51
Mean 10.17
Std Dev 18.37

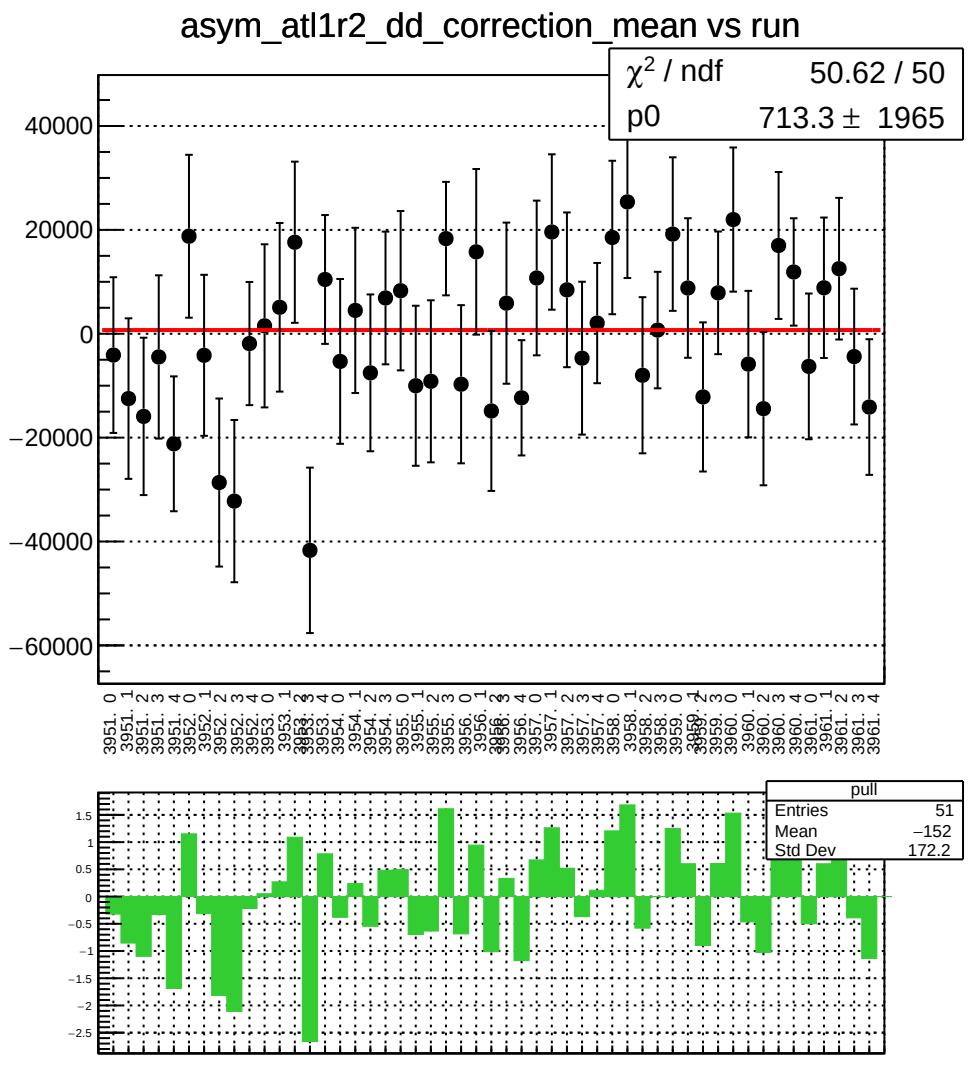

pull1D
Entries 51
Mean −0.0808
Std Dev 0.9708

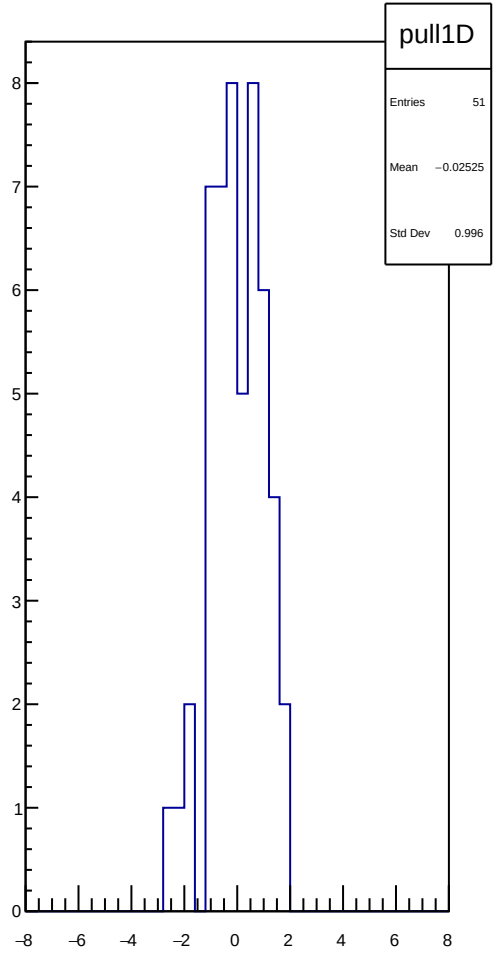

asym_atl1r2_avg_rms vs run
χ² / ndf 6.959e+04 / 50
p0 1213 ± 1.234
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

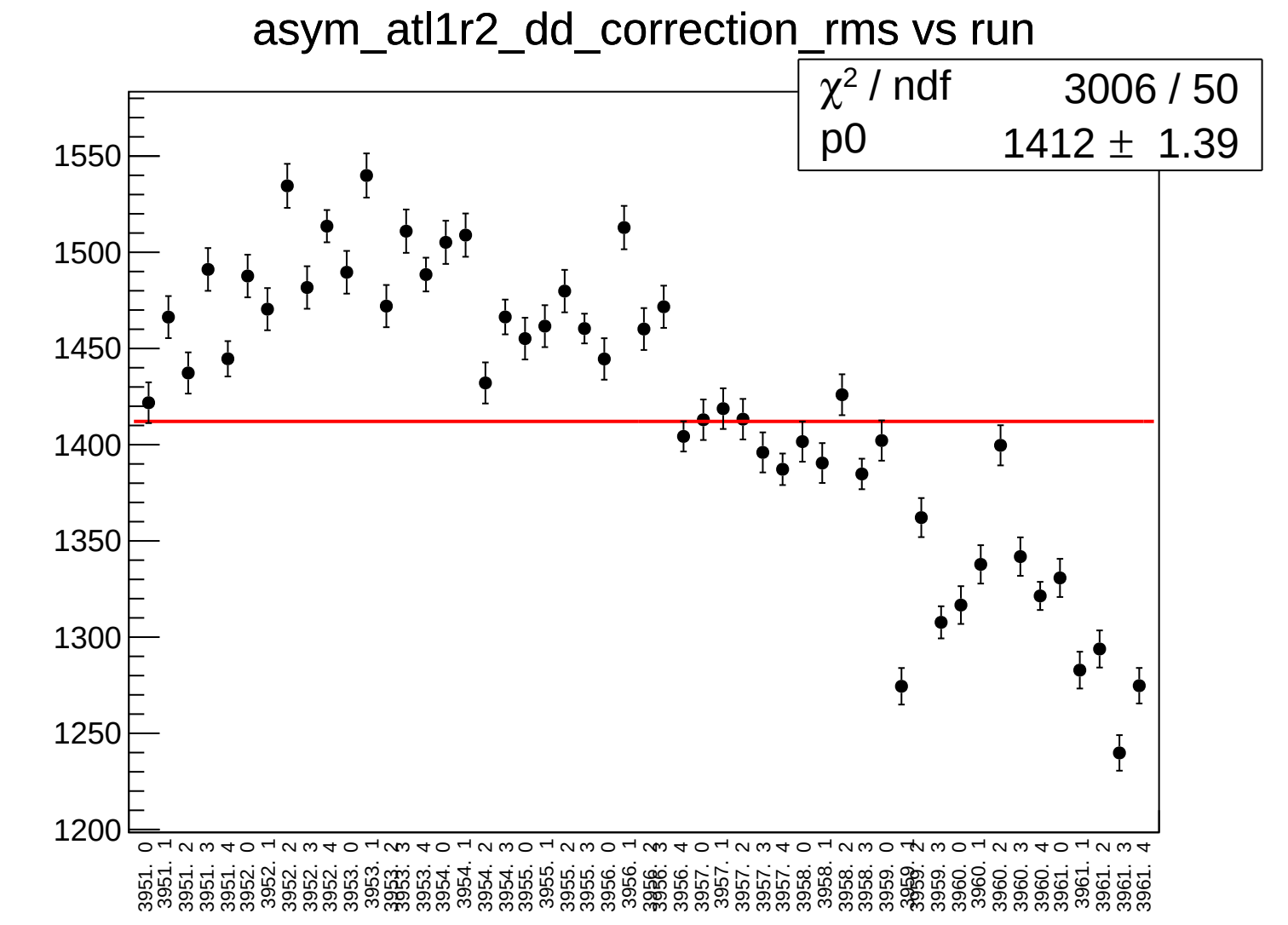

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 53.58 / 50
p0 904 ± 483.1
×10³
100
50
0
−50
−100
pull
Entries 51
Mean 90.34
Std Dev 48.99

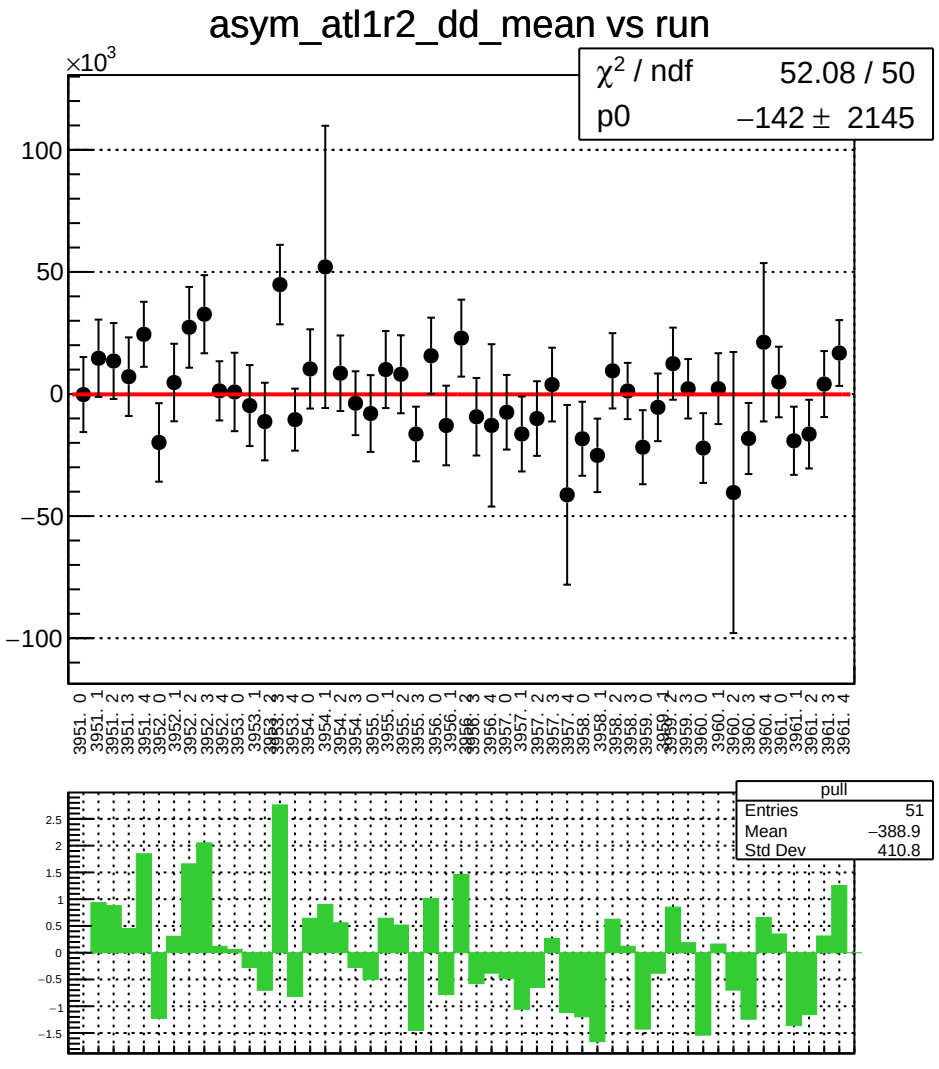

pull1D
Entries 51
Mean −0.03434
Std Dev 1.024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

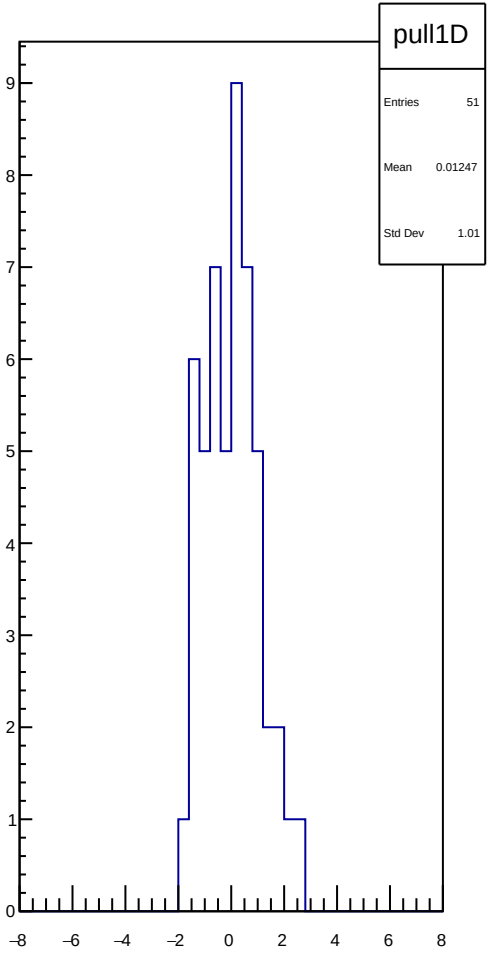

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 1.106e+05 / 50
p0 328.6 ± 0.3416
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

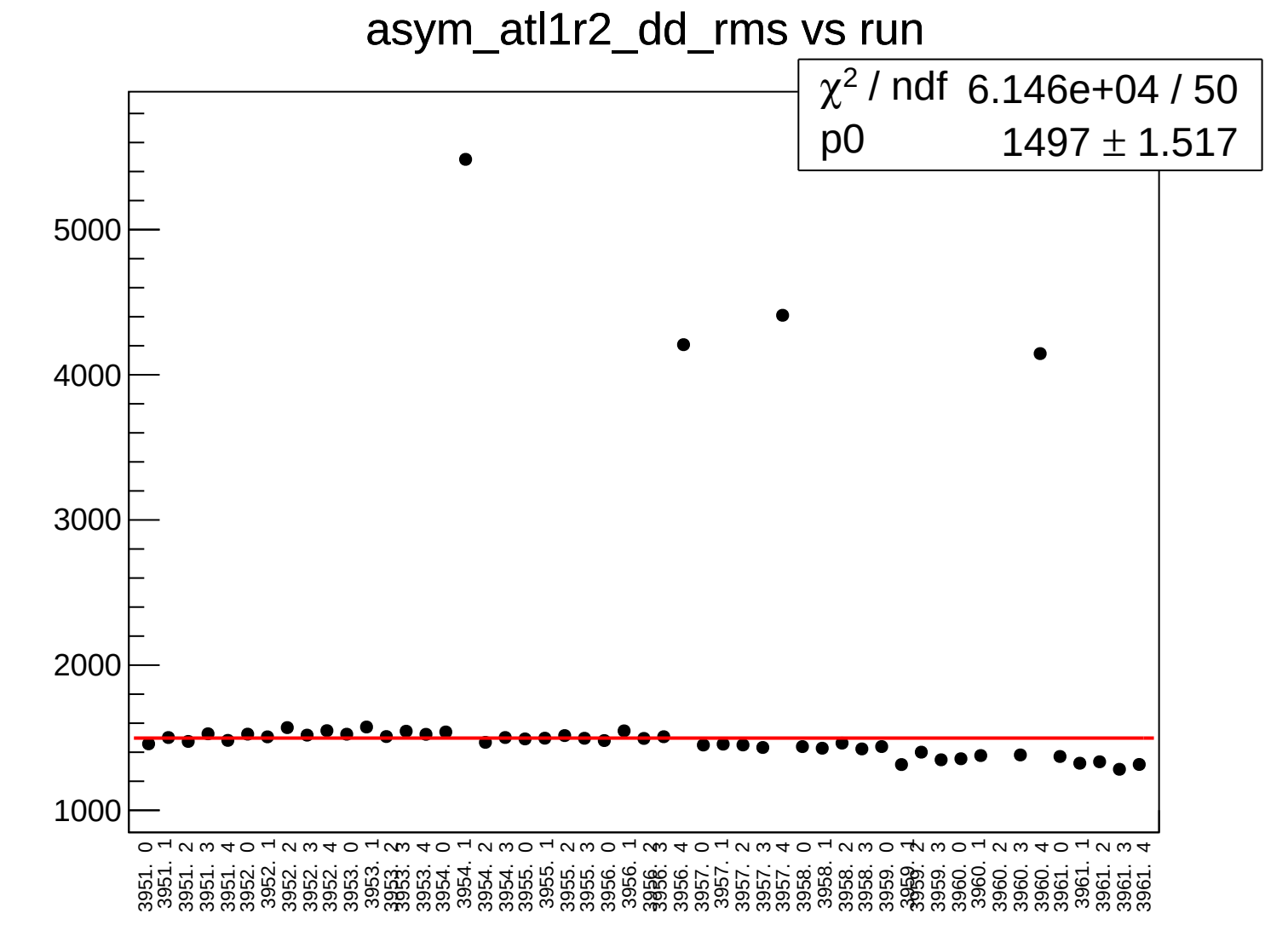

asym_atl1r2_dd_correction_mean vs run
χ^2 / ndf 50.62 / 50
p0 713.3 ± 1965
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −152
Std Dev 172.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

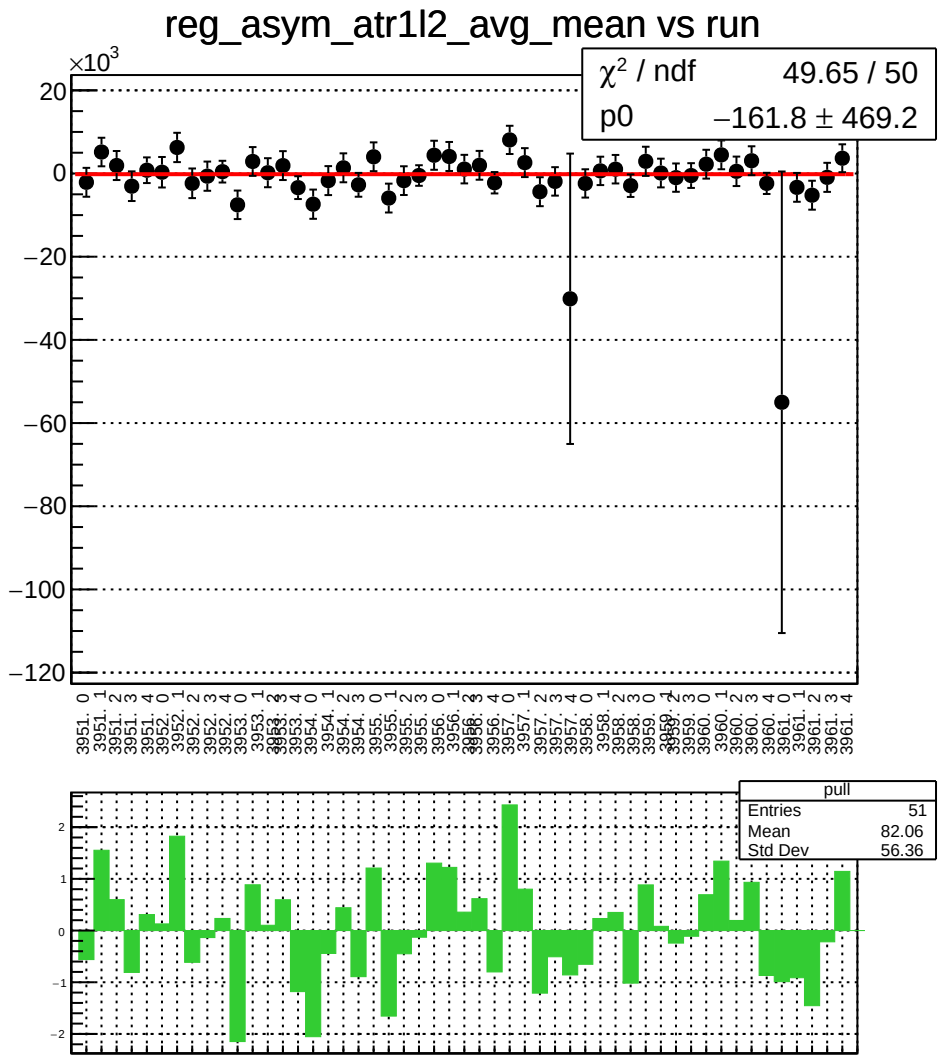

pull1D
Entries 51
Mean −0.02525
Std Dev 0.996
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

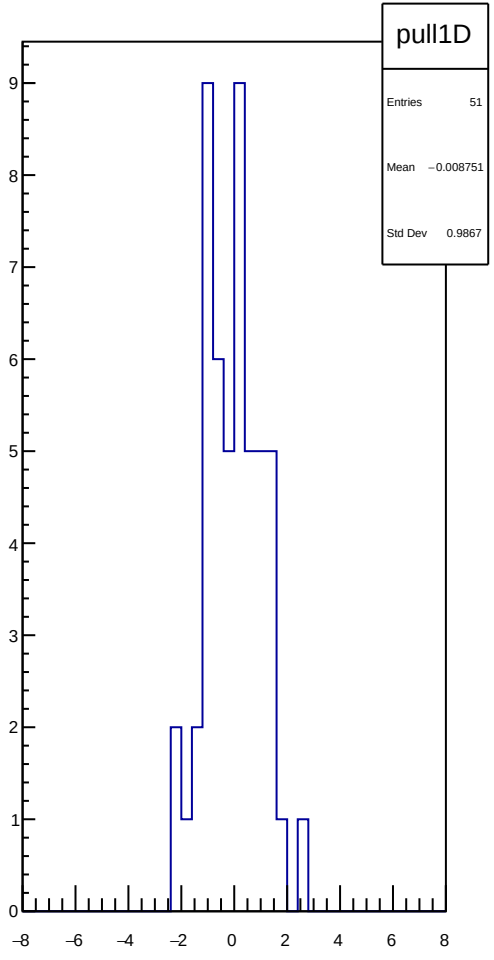

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3006 / 50
p0 1412 ± 1.39
1550
1500
1450
1400
1350
1300
1250
1200
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

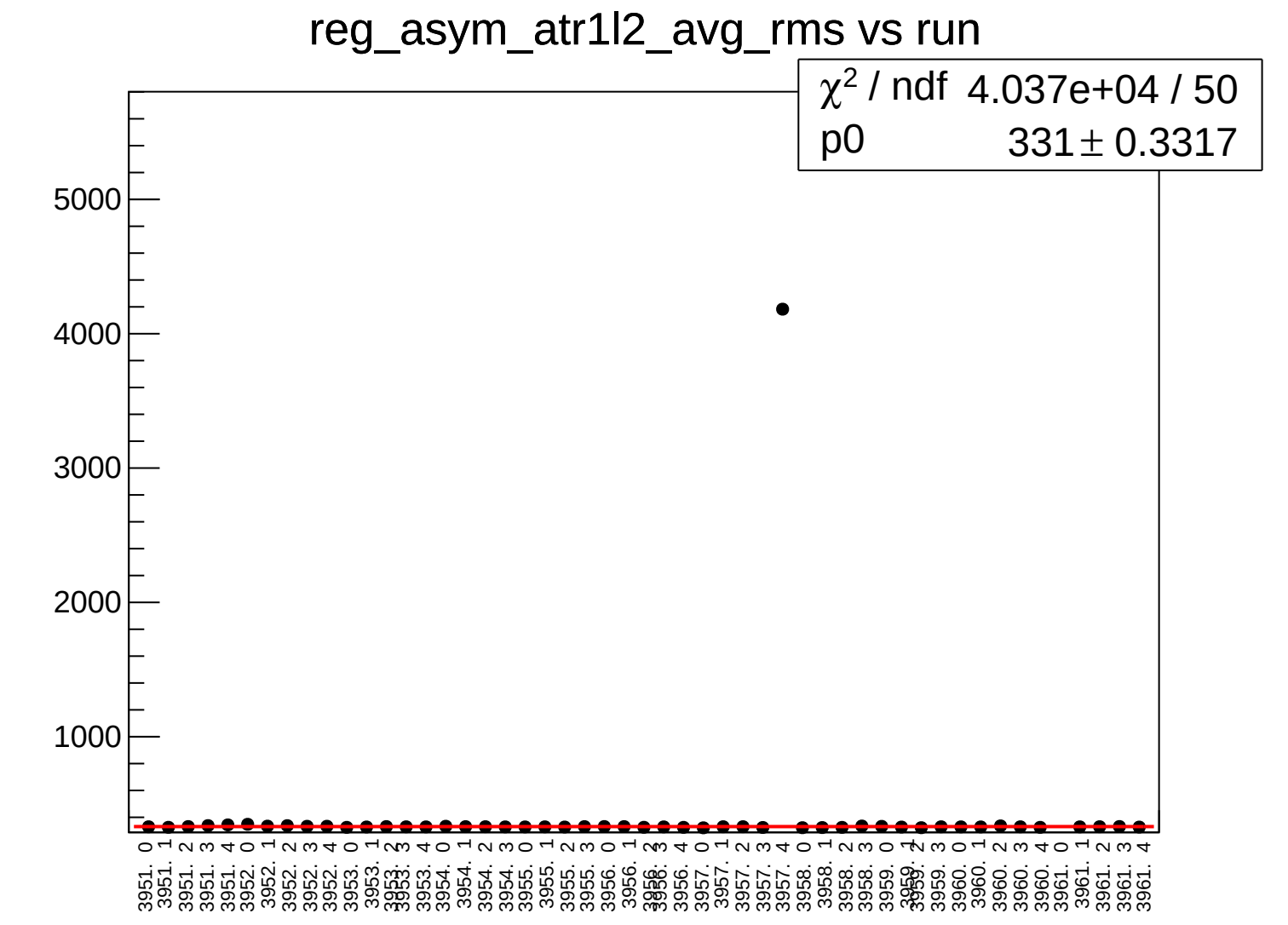

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 52.08 / 50
p0 −142 ± 2145
100
50
0
−50
−100
pull
Entries 51
Mean −388.9
Std Dev 410.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

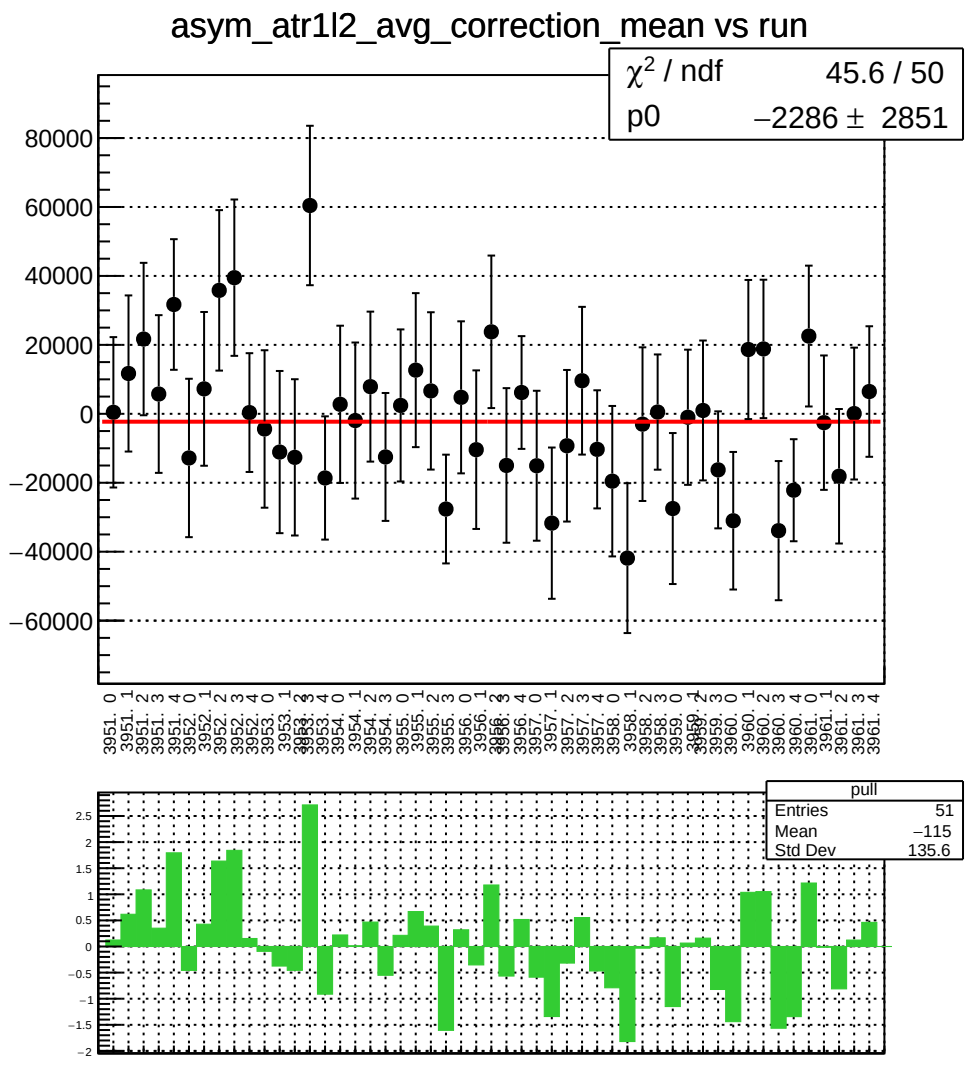

pull1D
Entries 51
Mean 0.01247
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

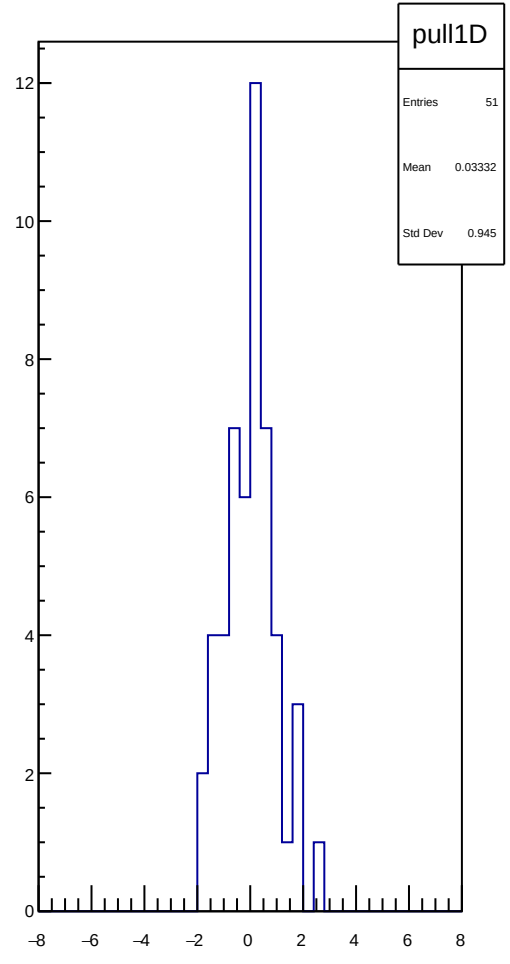

asym_atl1r2_dd_rms vs run
χ² / ndf 6.146e+04 / 50
p0 1497 ± 1.517
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

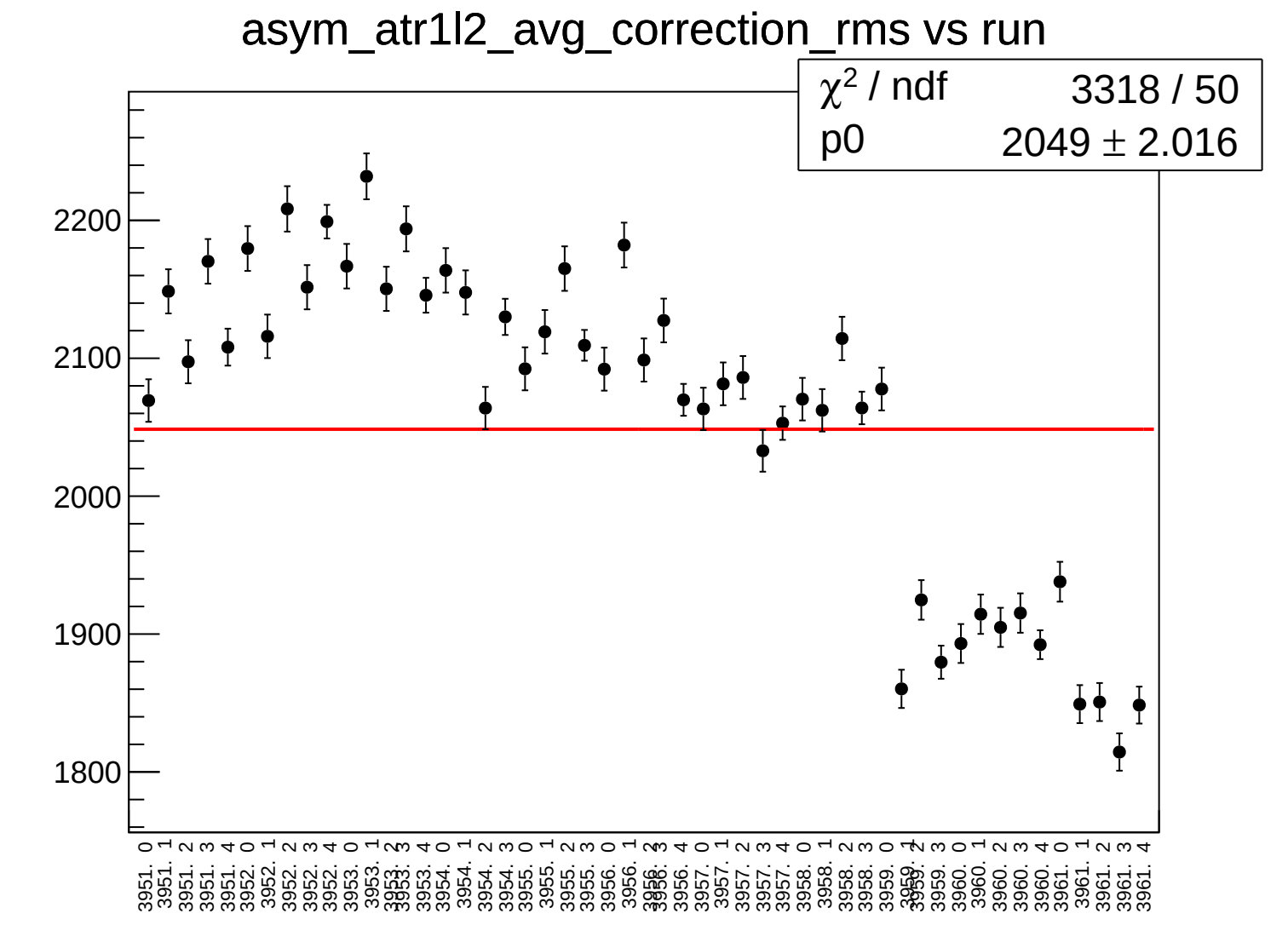

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 49.65 / 50
p0 −161.8 ± 469.2
pull
Entries 51
Mean 82.06
Std Dev 56.36

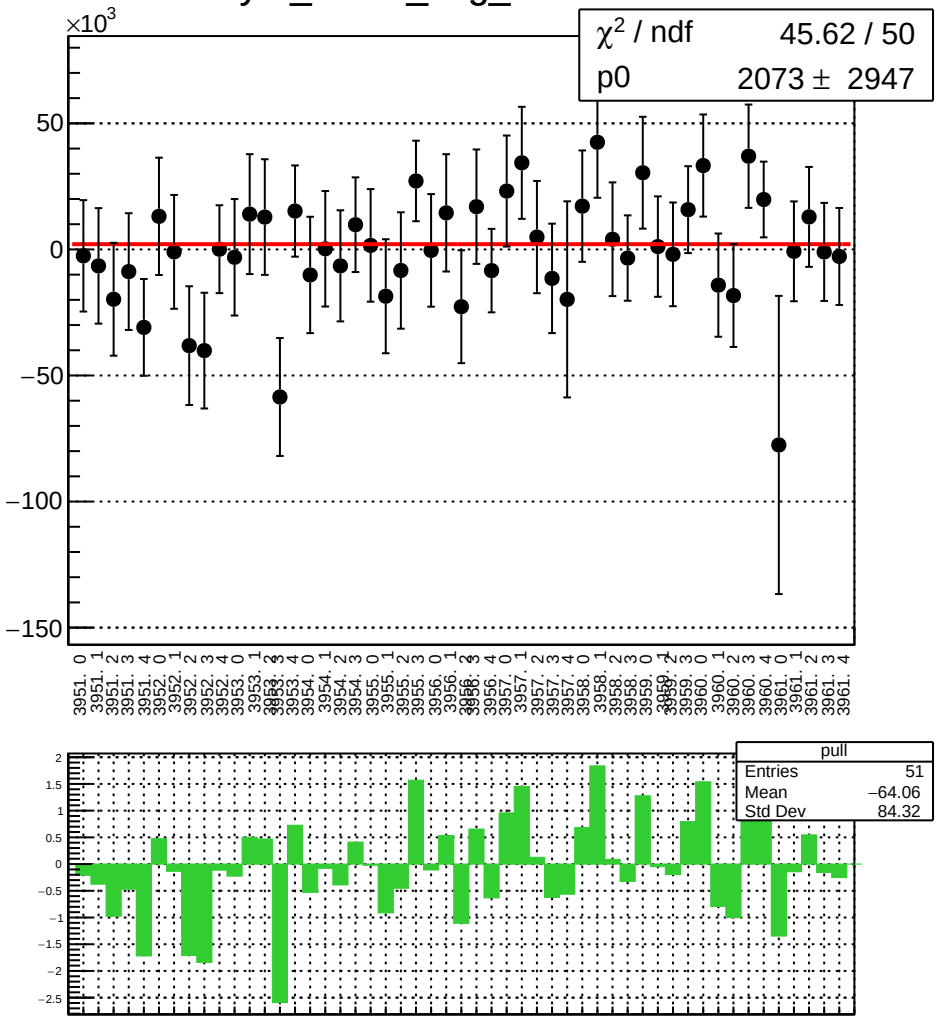

pull1D
Entries 51
Mean −0.008751
Std Dev 0.9867

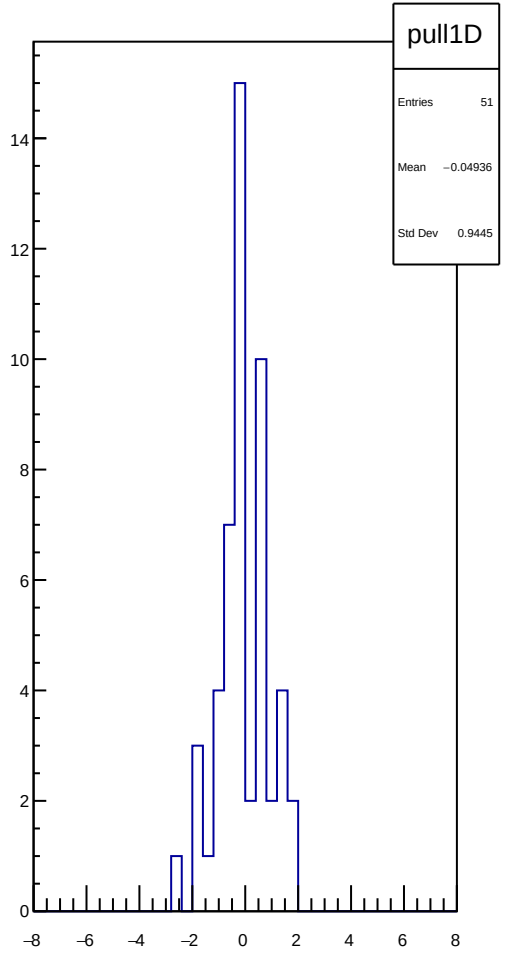

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 4.037e+04 / 50
p0 331 ± 0.3317
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

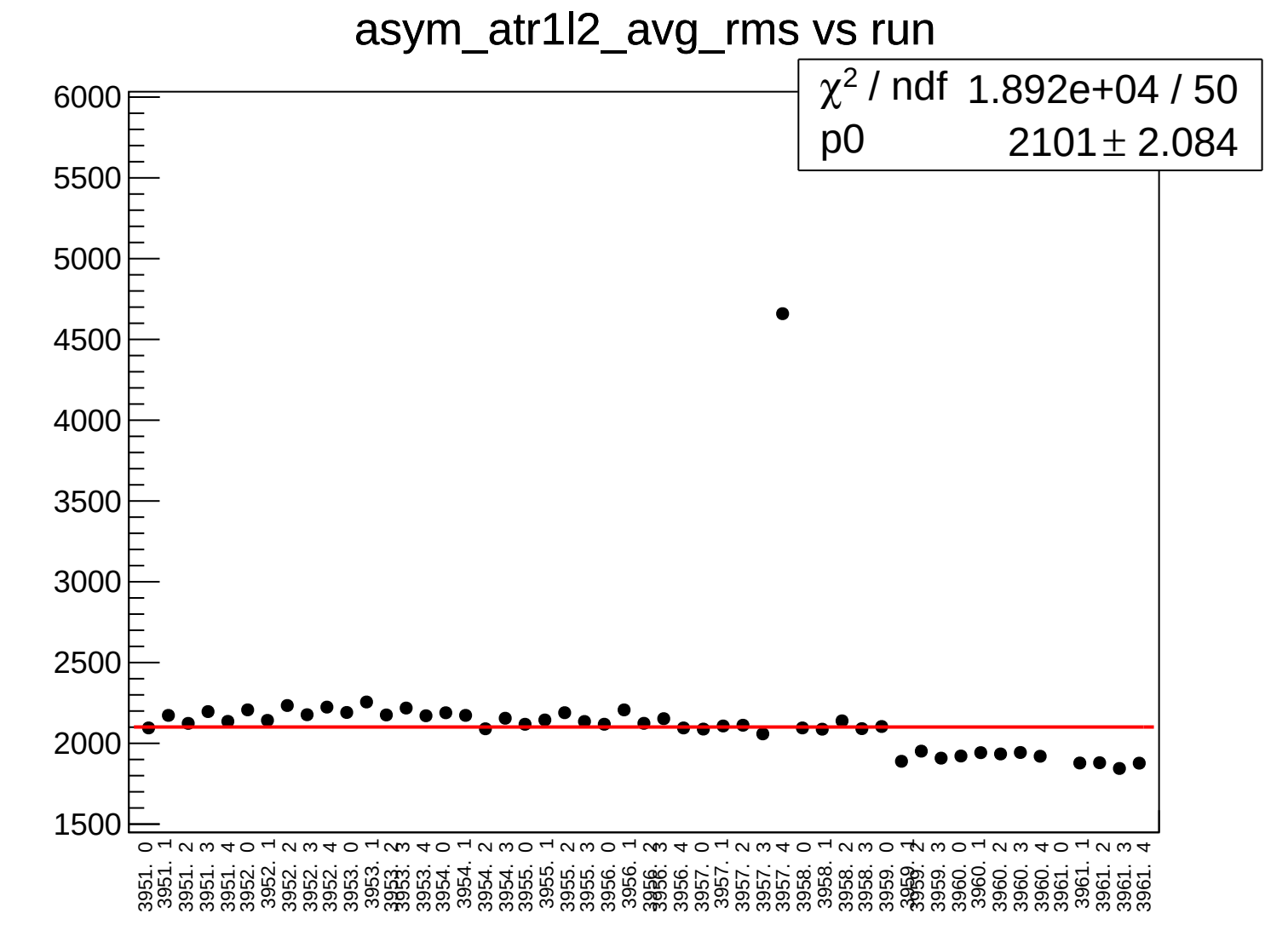

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 45.6 / 50
p0 −2286 ± 2851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −115
Std Dev 135.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

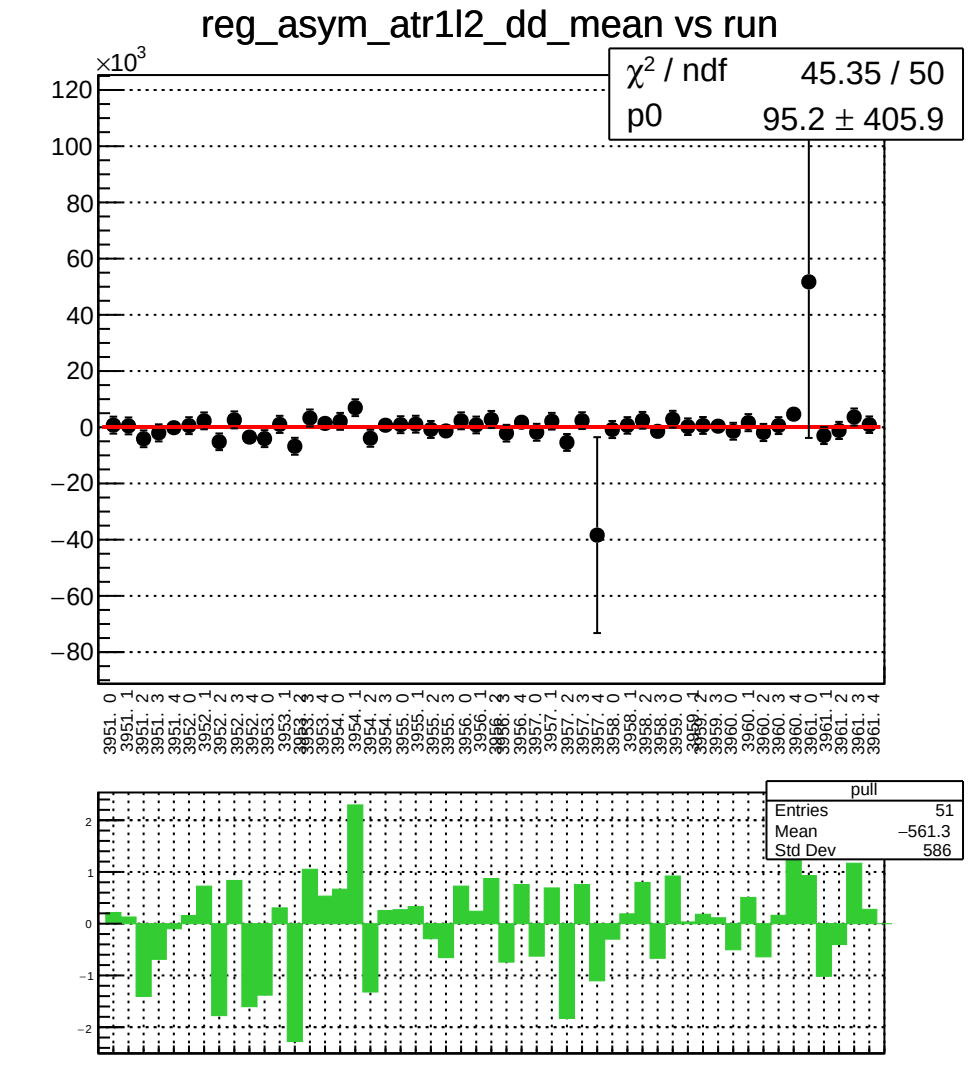

pull1D
Entries 51
Mean 0.03332
Std Dev 0.945
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

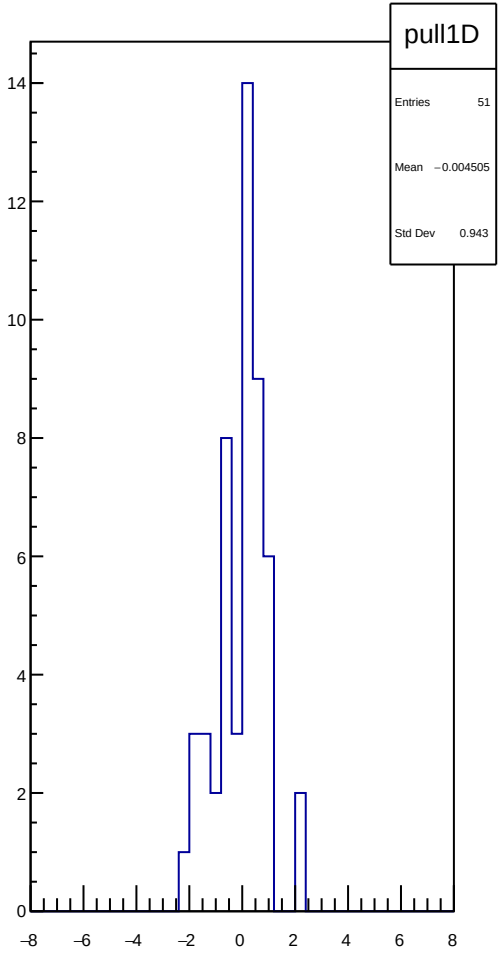

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 3318 / 50
p0 2049 ± 2.016
2200
2100
2000
1900
1800
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

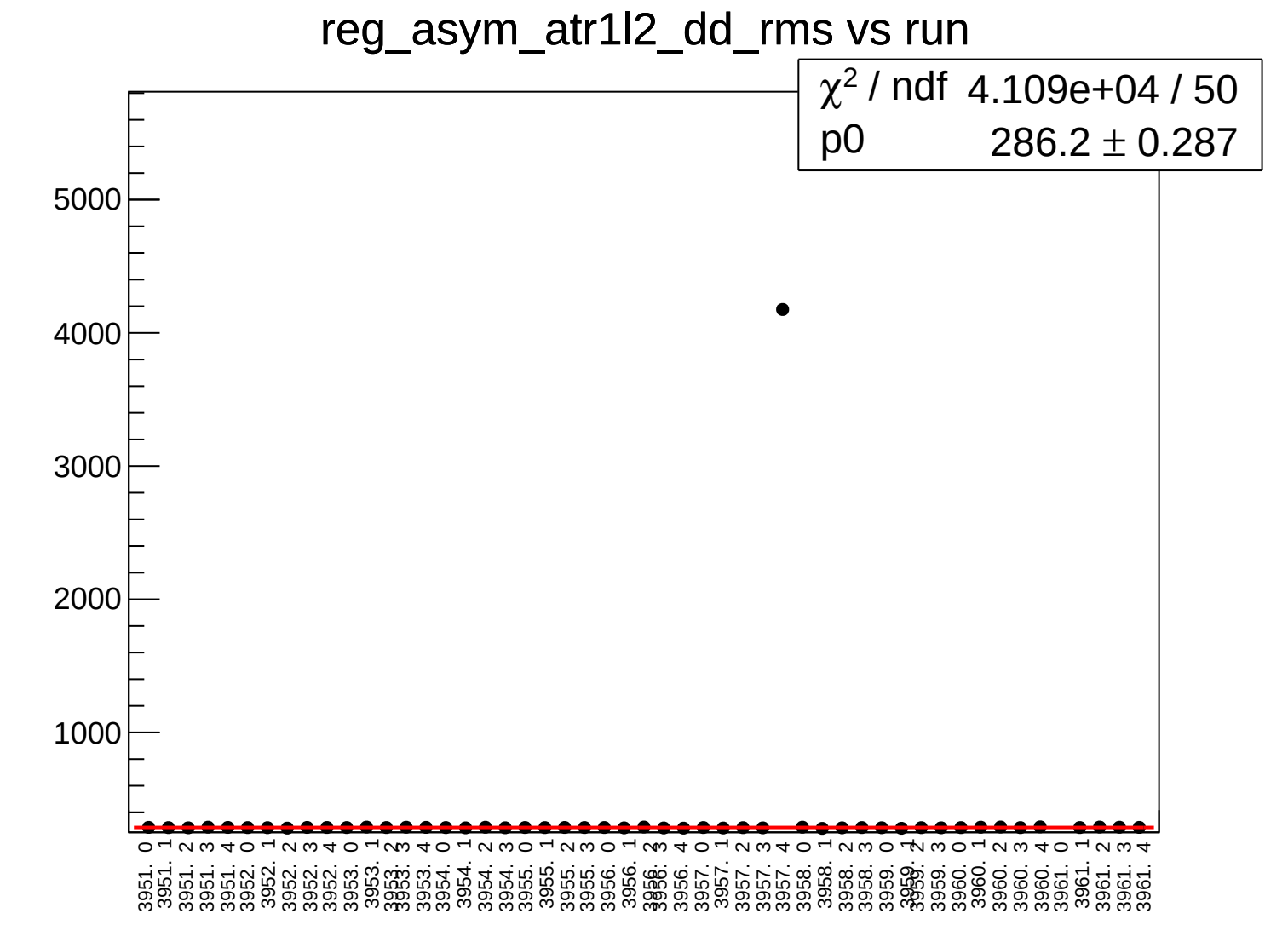

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 45.62 / 50
p0 2073 ± 2947
50
0
−50
−100
−150
pull
Entries 51
Mean −64.06
Std Dev 84.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

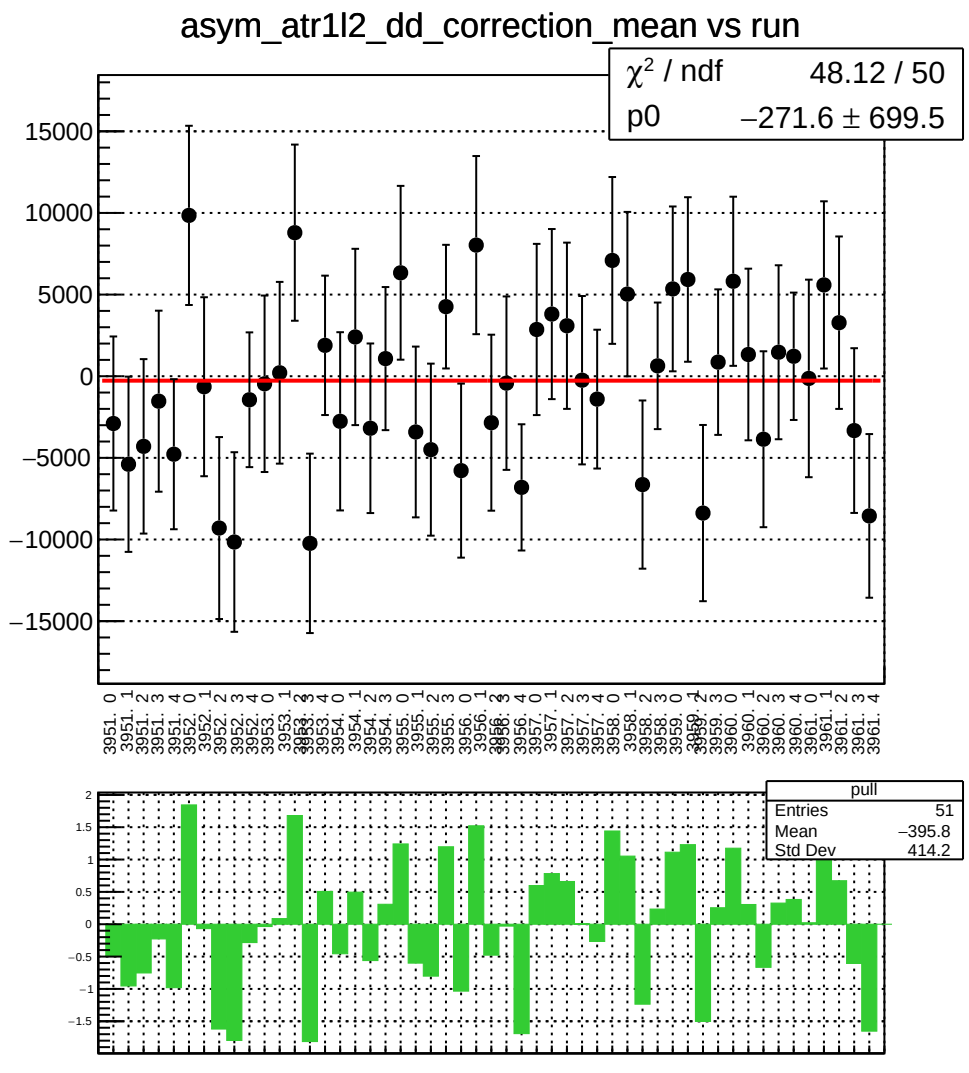

pull1D
Entries 51
Mean −0.04936
Std Dev 0.9445
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

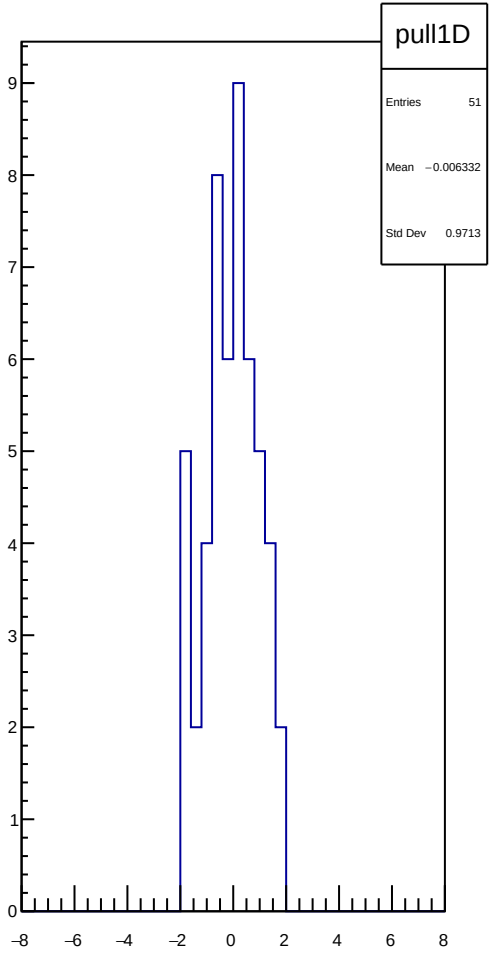

asym_atr1l2_avg_rms vs run
χ² / ndf 1.892e+04 / 50
p0 2101 ± 2.084
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

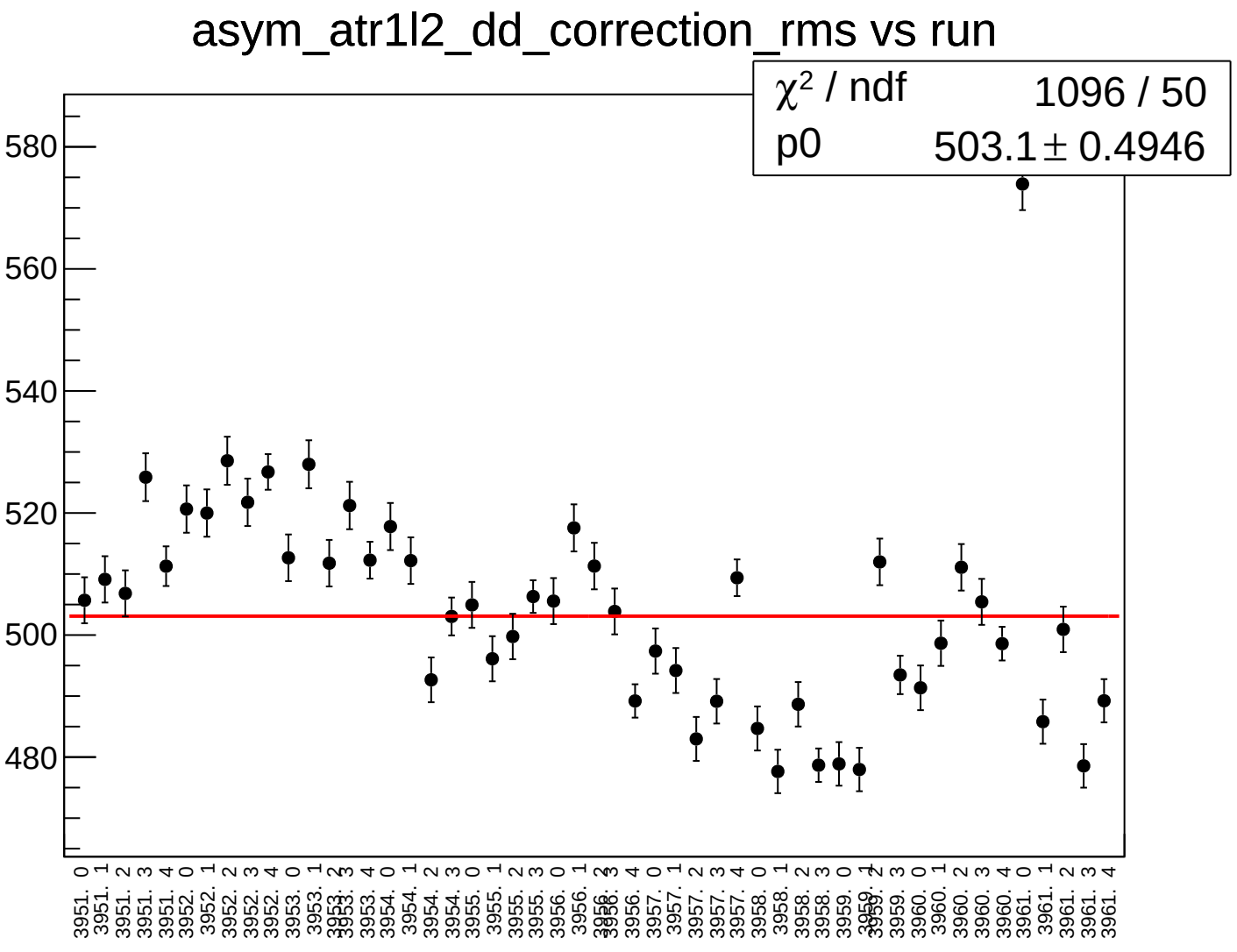

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 45.35 / 50
p0 95.2 ± 405.9
pull
Entries 51
Mean −561.3
Std Dev 586

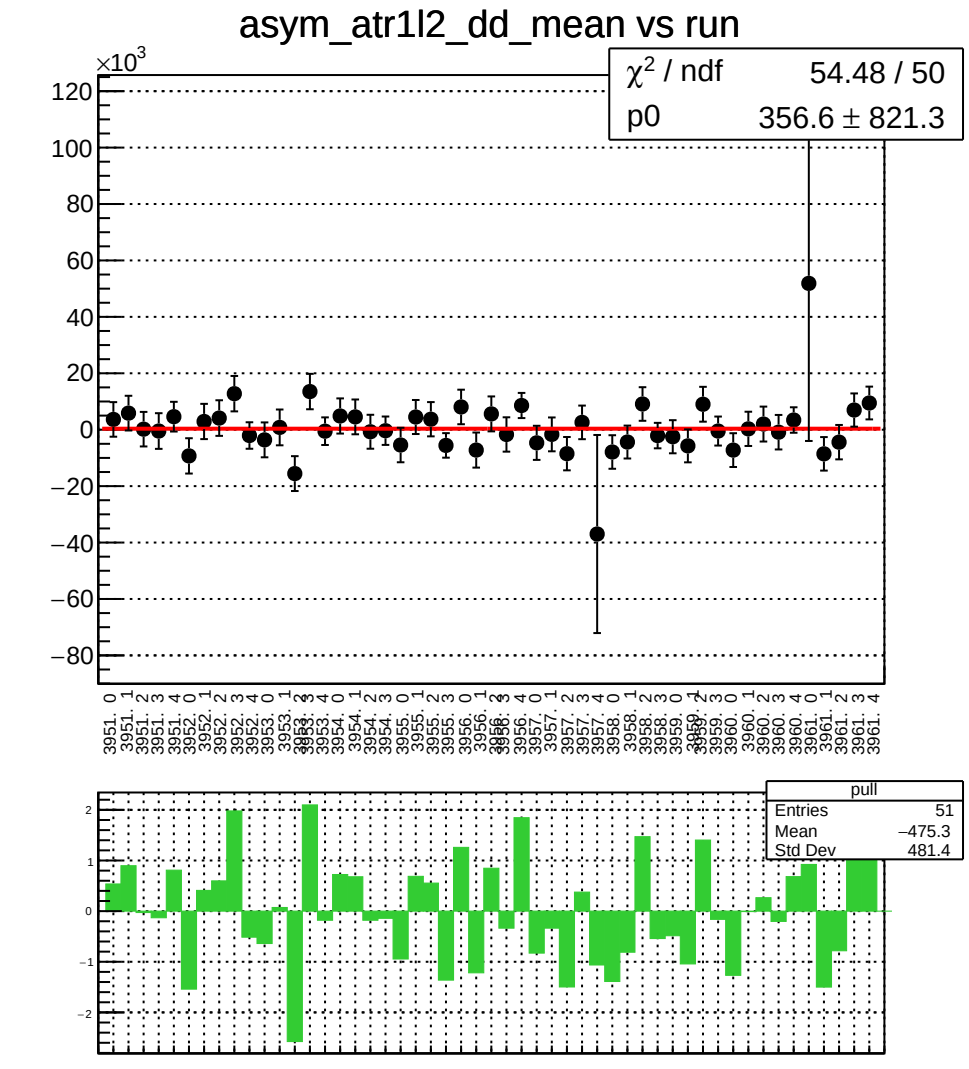

pull1D
Entries 51
Mean −0.004505
Std Dev 0.943

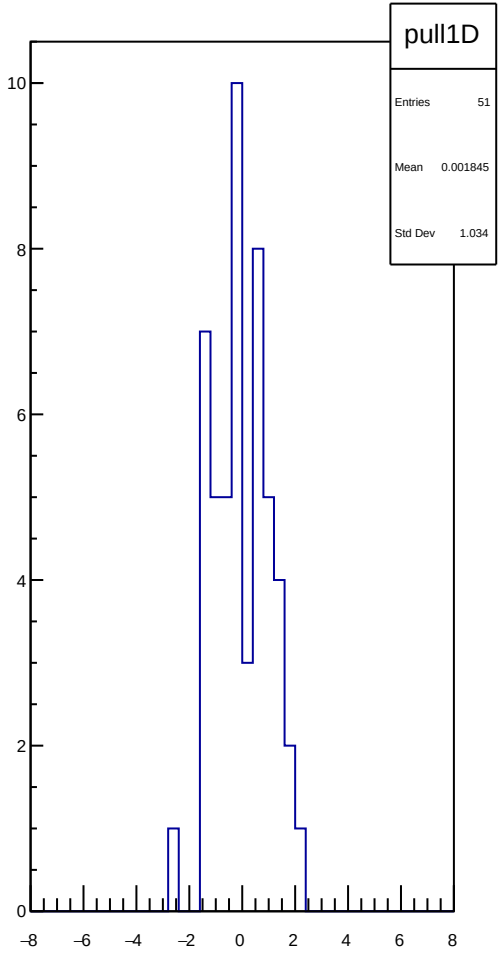

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 4.109e+04 / 50
p0 286.2 ± 0.287
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4

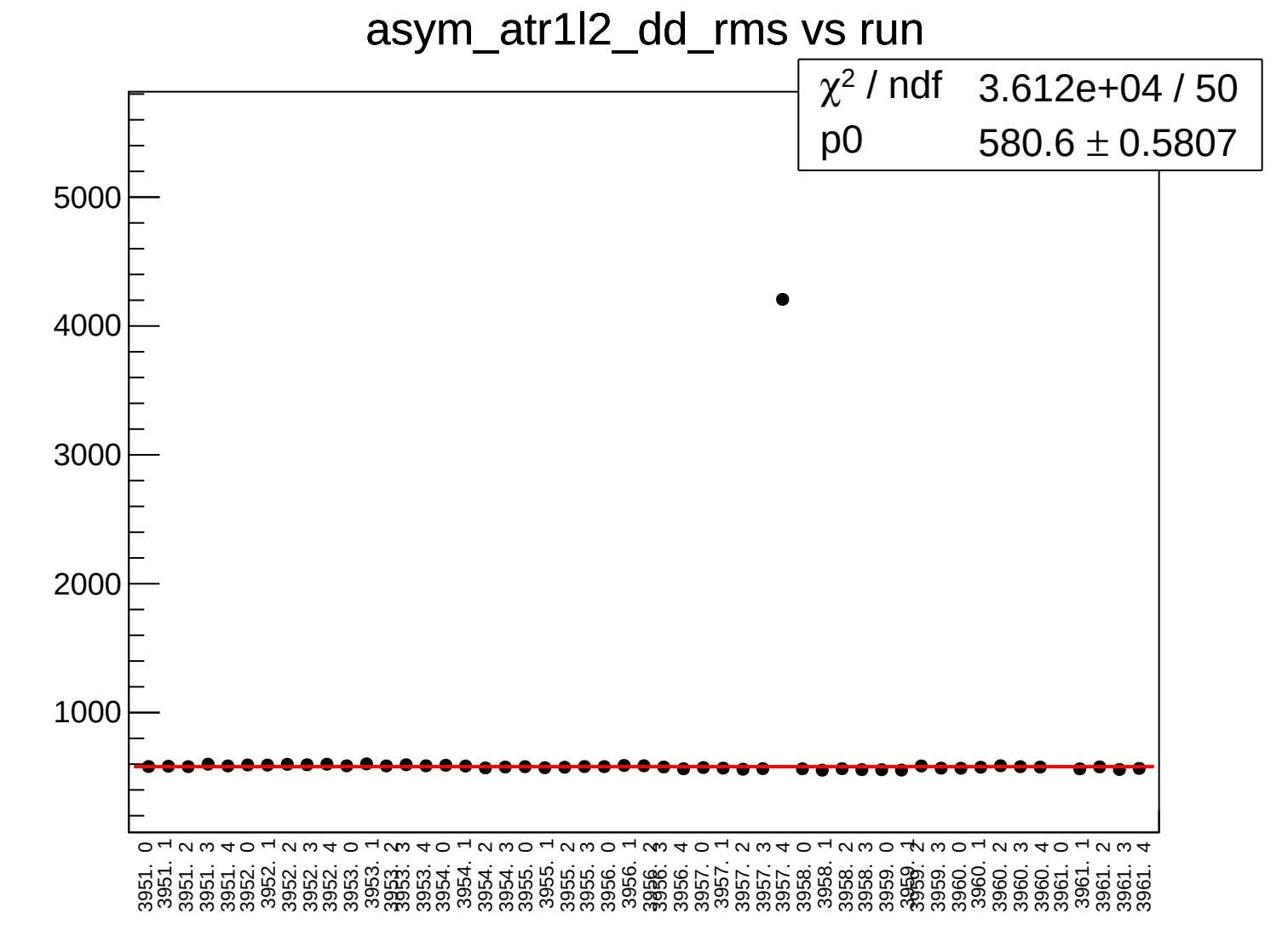

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 48.12 / 50
p0 −271.6 ± 699.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean −395.8
Std Dev 414.2
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean −0.006332
Std Dev 0.9713
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1096 / 50
p0 503.1 ± 0.4946
580
560
540
520
500
480
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4


asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 54.48 / 50
p0 356.6 ± 821.3
pull
Entries 51
Mean −475.3
Std Dev 481.4


pull1D
Entries 51
Mean 0.001845
Std Dev 1.034


asym_atr1l2_dd_rms vs run
χ² / ndf 3.612e+04 / 50
p0 580.6 ± 0.5807
5000
4000
3000
2000
1000
3951. 0
3951. 1
3951. 2
3951. 3
3951. 4
3952. 0
3952. 1
3952. 2
3952. 3
3952. 4
3953. 0
3953. 1
3953. 2
3953. 3
3953. 4
3954. 0
3954. 1
3954. 2
3954. 3
3955. 0
3955. 1
3955. 2
3955. 3
3956. 0
3956. 1
3956. 2
3956. 3
3956. 4
3957. 0
3957. 1
3957. 2
3957. 3
3957. 4
3958. 0
3958. 1
3958. 2
3958. 3
3959. 0
3959. 1
3959. 2
3959. 3
3960. 0
3960. 1
3960. 2
3960. 3
3960. 4
3961. 0
3961. 1
3961. 2
3961. 3
3961. 4