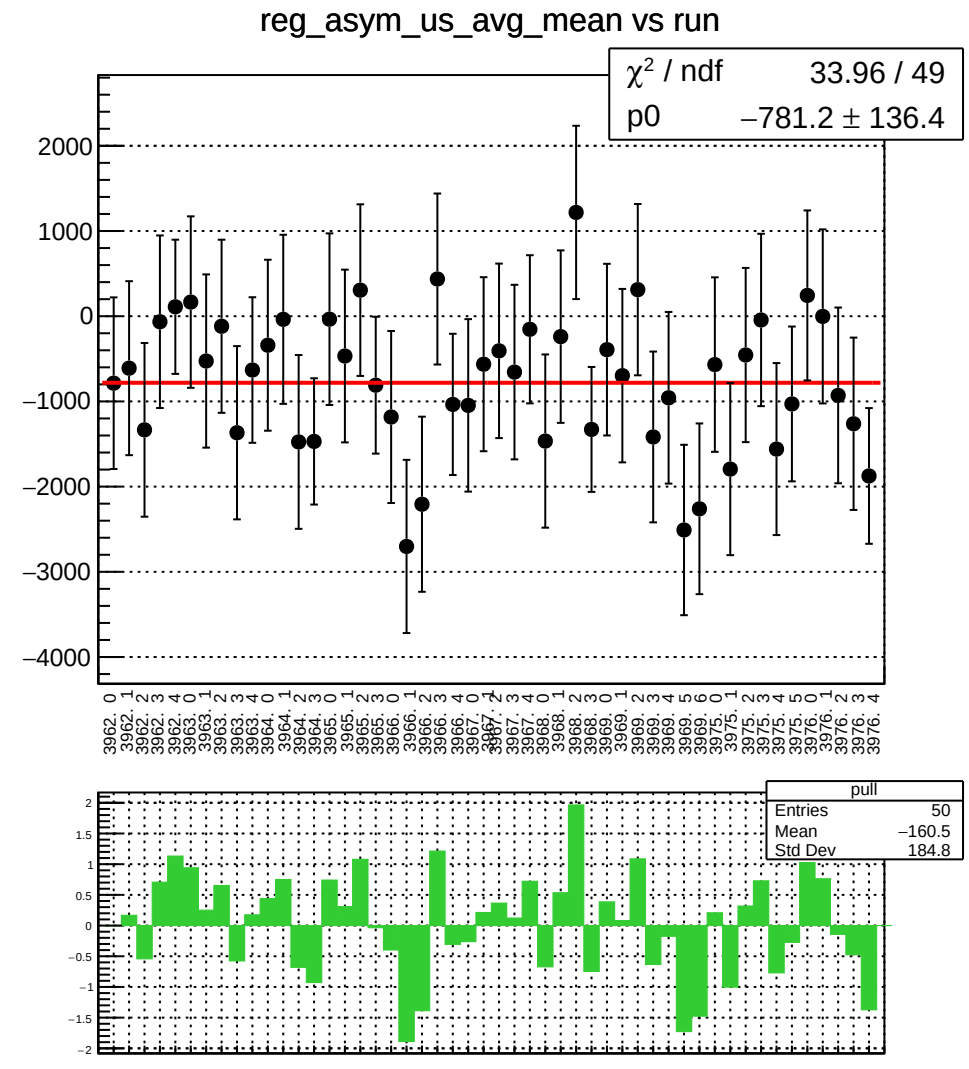
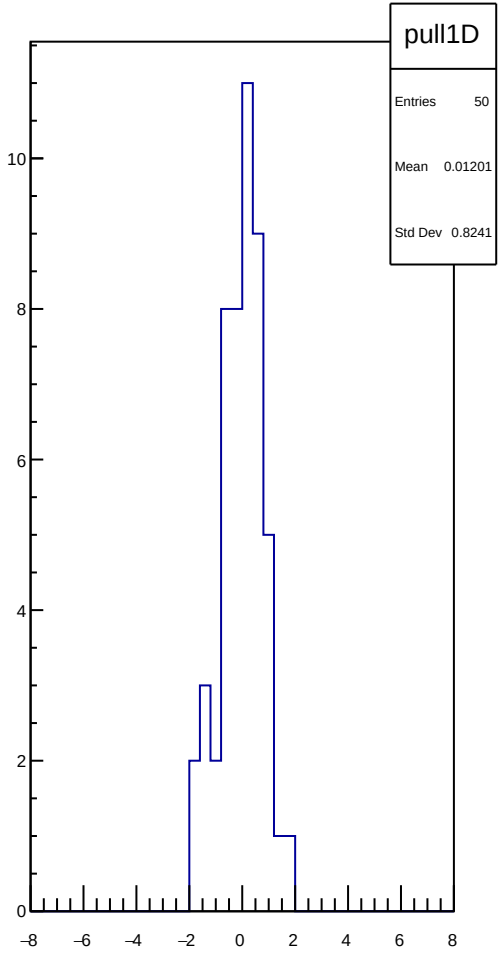
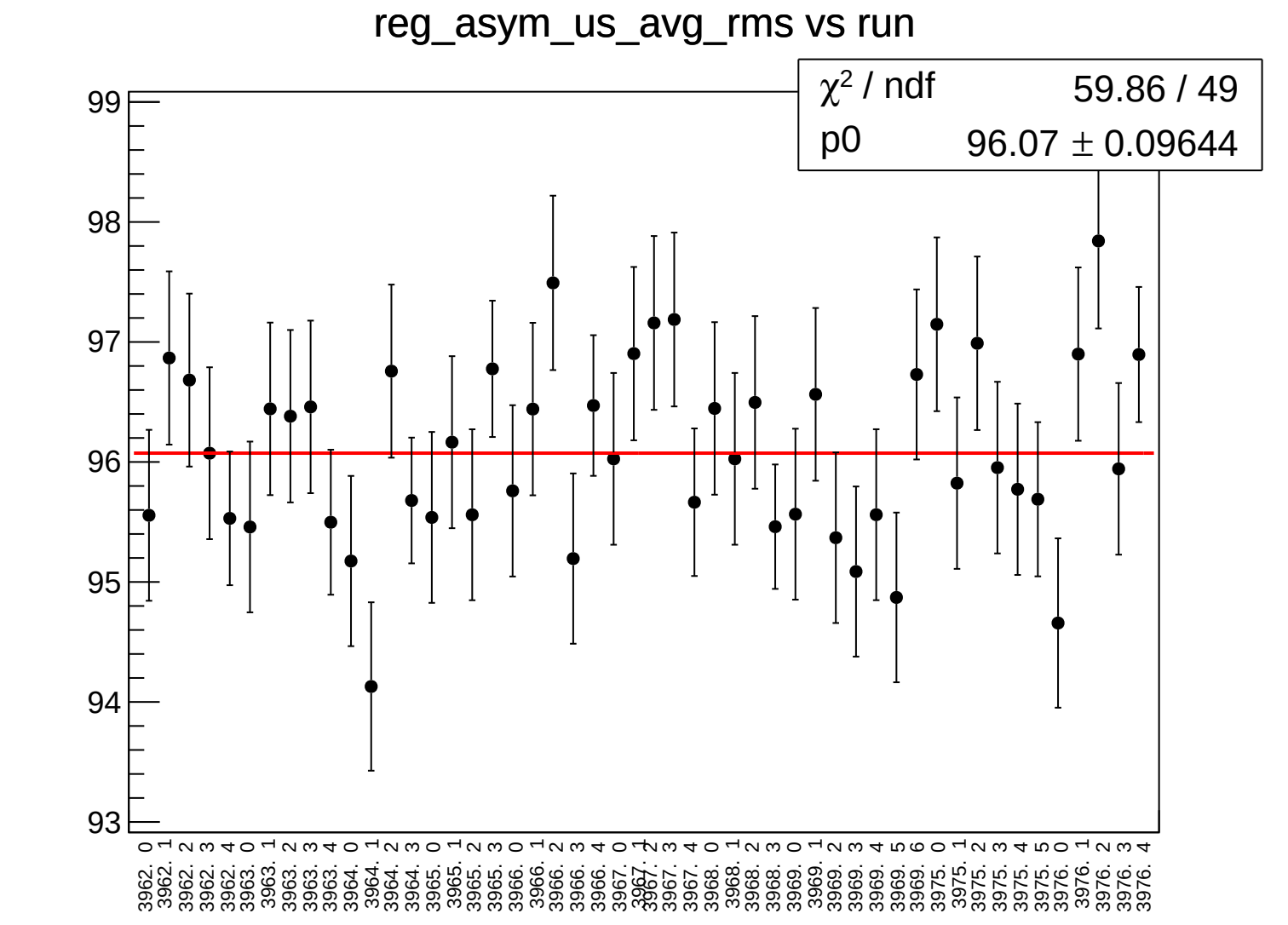
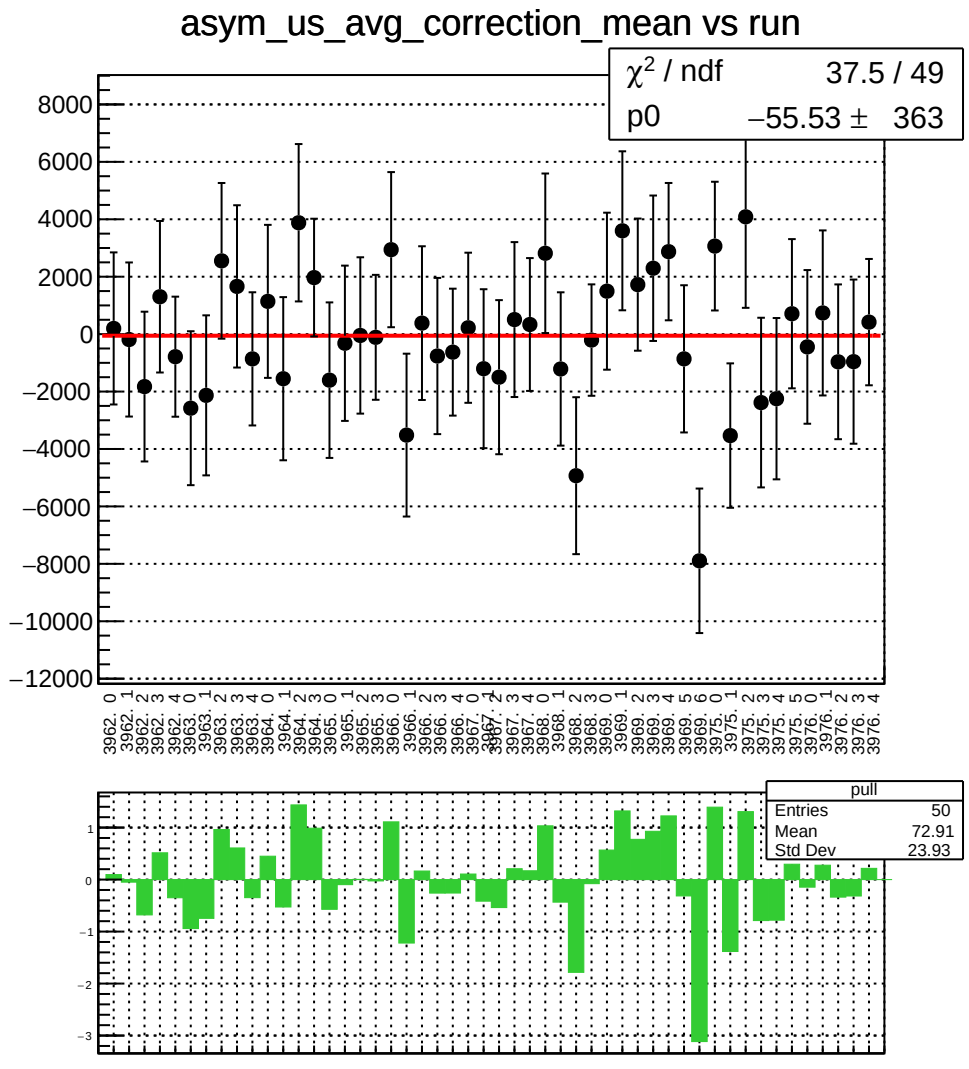
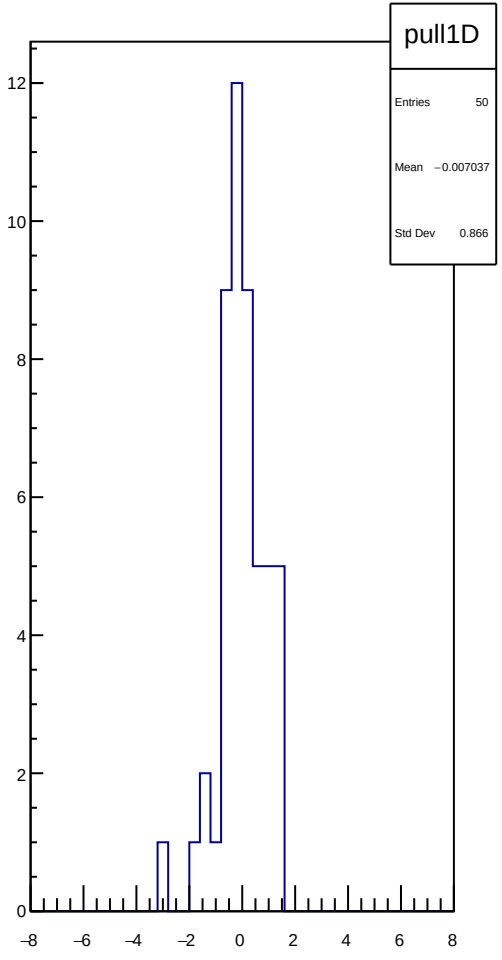
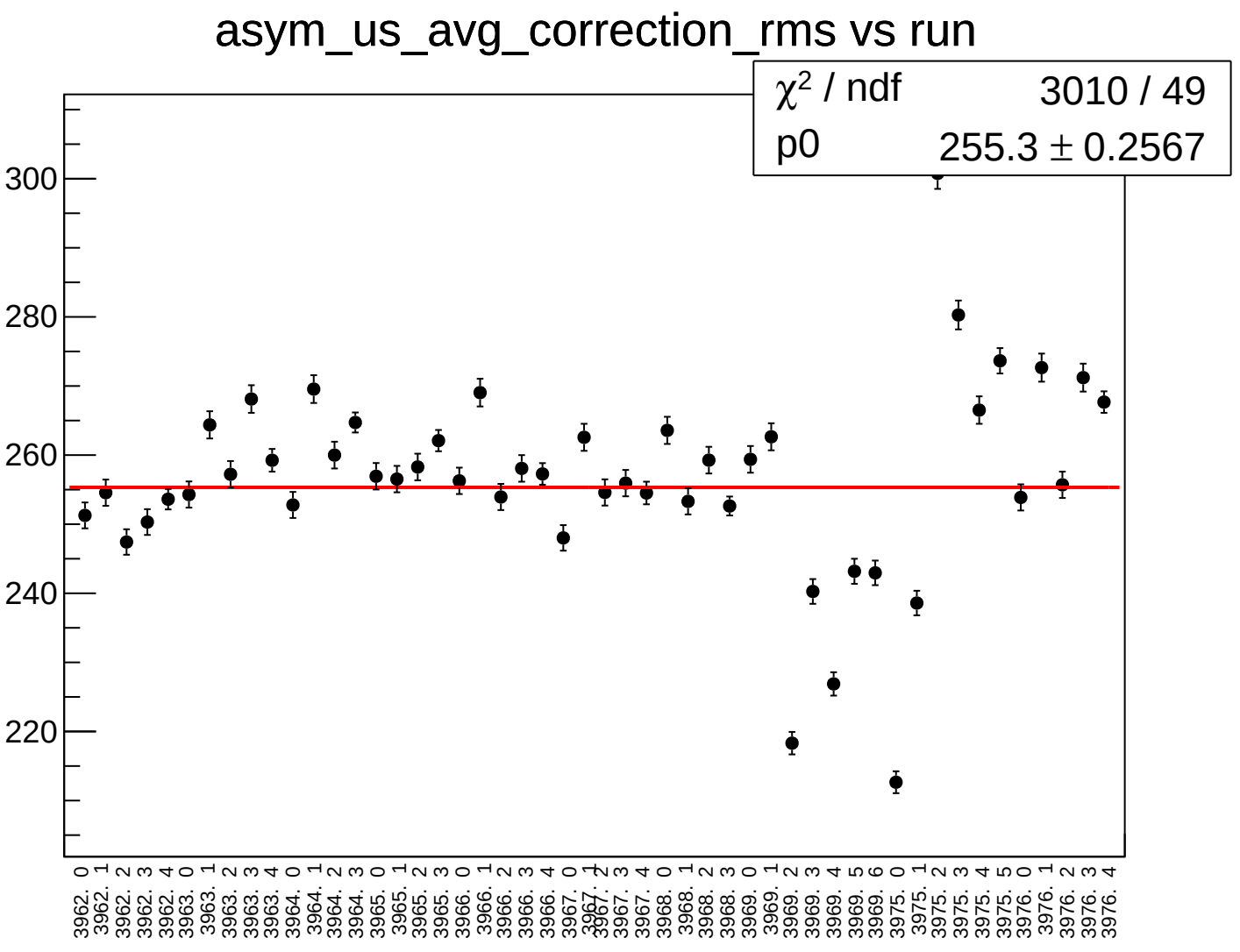

reg_asym_us_avg_mean vs run
χ² / ndf 33.96 / 49
p0 −781.2 ± 136.4
2000
1000
0
−1000
−2000
−3000
−4000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −160.5
Std Dev 184.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

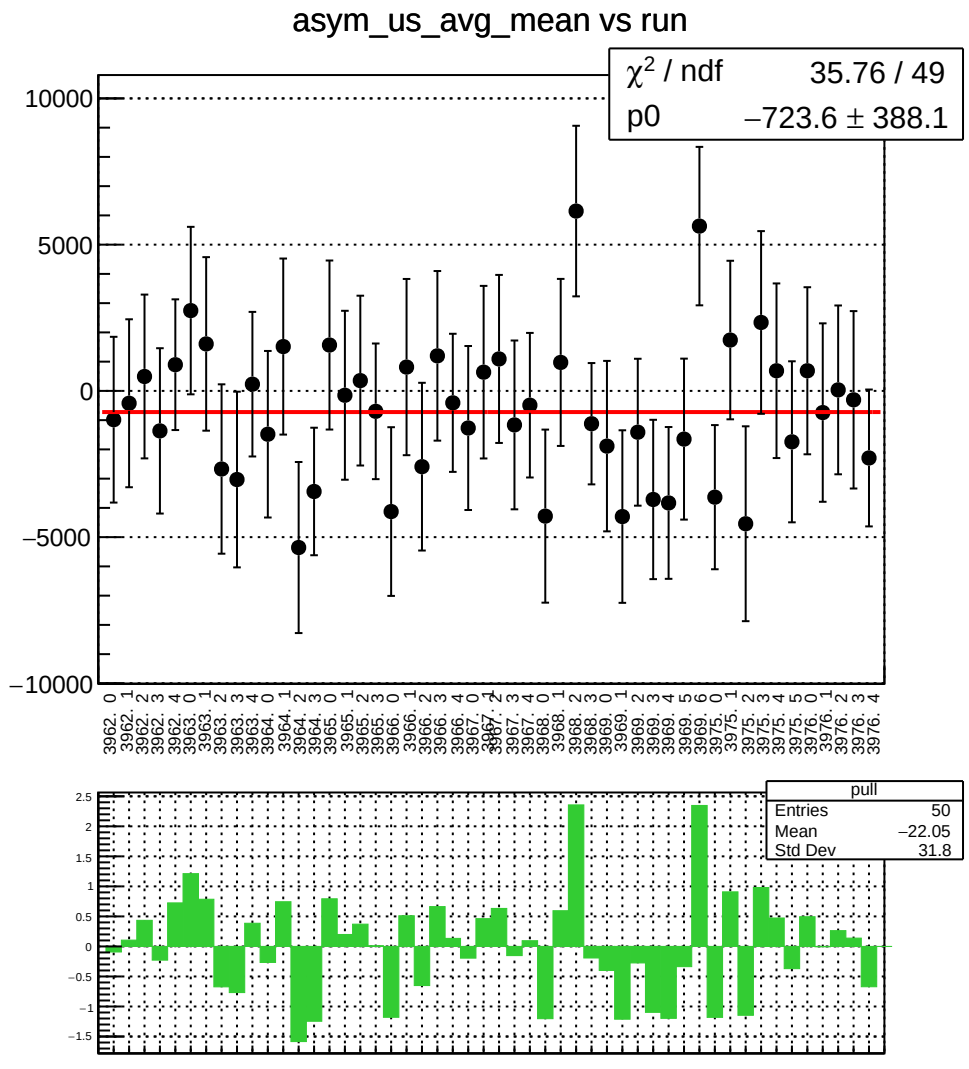

pull1D
Entries 50
Mean 0.01201
Std Dev 0.8241
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

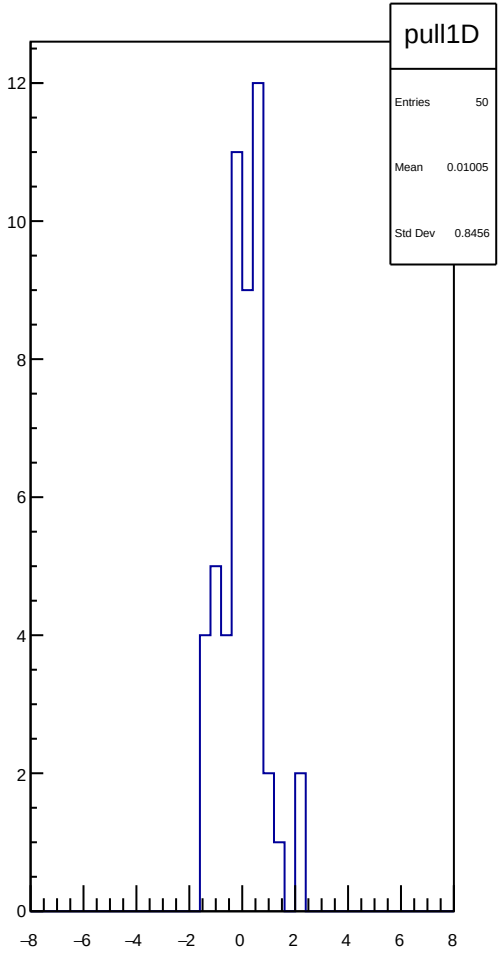

reg_asym_us_avg_rms vs run
χ^2 / ndf 59.86 / 49
p0 96.07 ± 0.09644
99
98
97
96
95
94
93
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

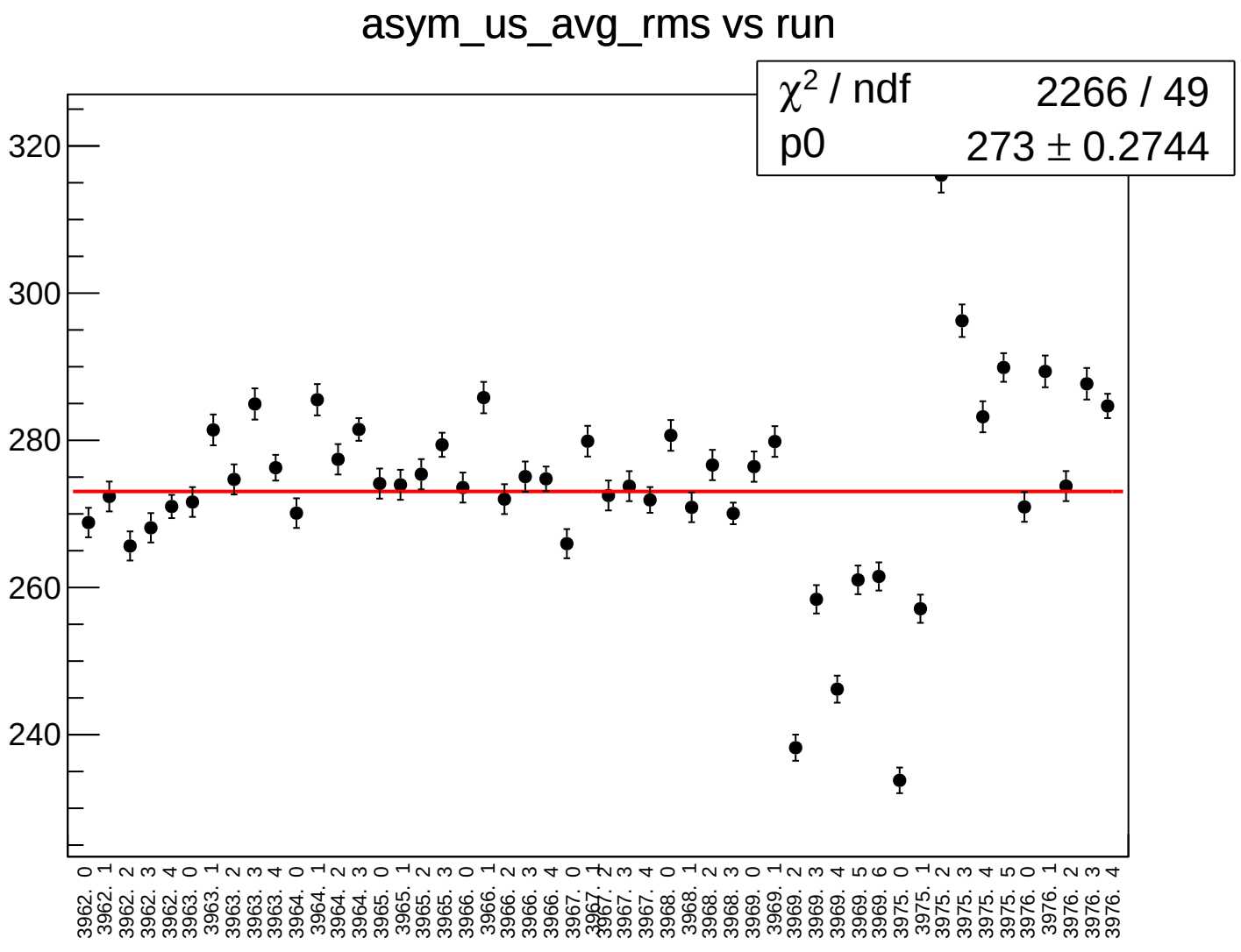

asym_us_avg_correction_mean vs run
χ² / ndf 37.5 / 49
p0 −55.53 ± 363
pull
Entries 50
Mean 72.91
Std Dev 23.93

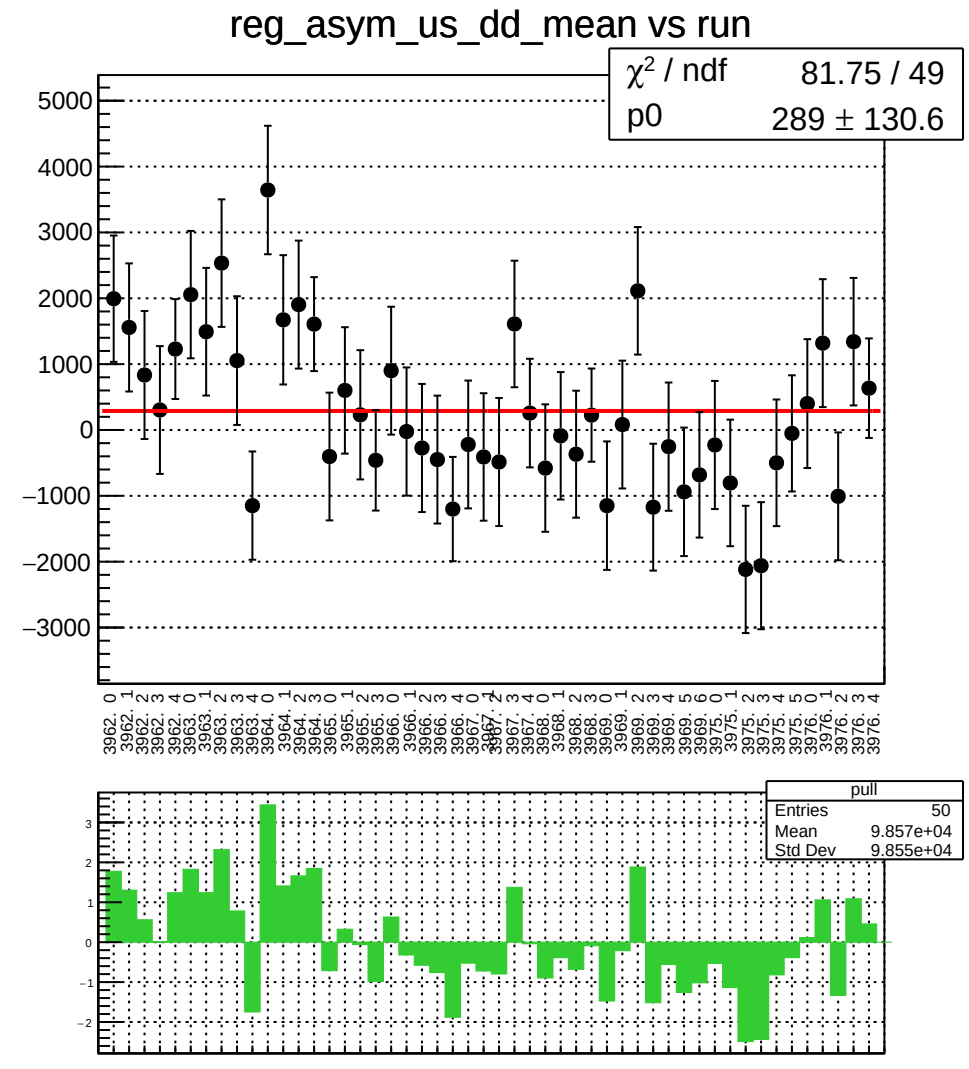

pull1D
Entries 50
Mean −0.007037
Std Dev 0.866

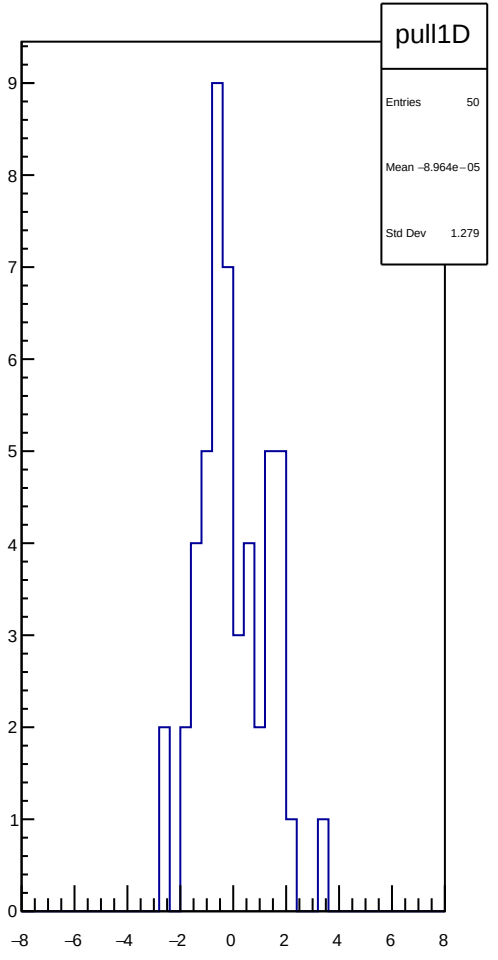

asym_us_avg_correction_rms vs run
χ² / ndf 3010 / 49
p0 255.3 ± 0.2567
300
280
260
240
220
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

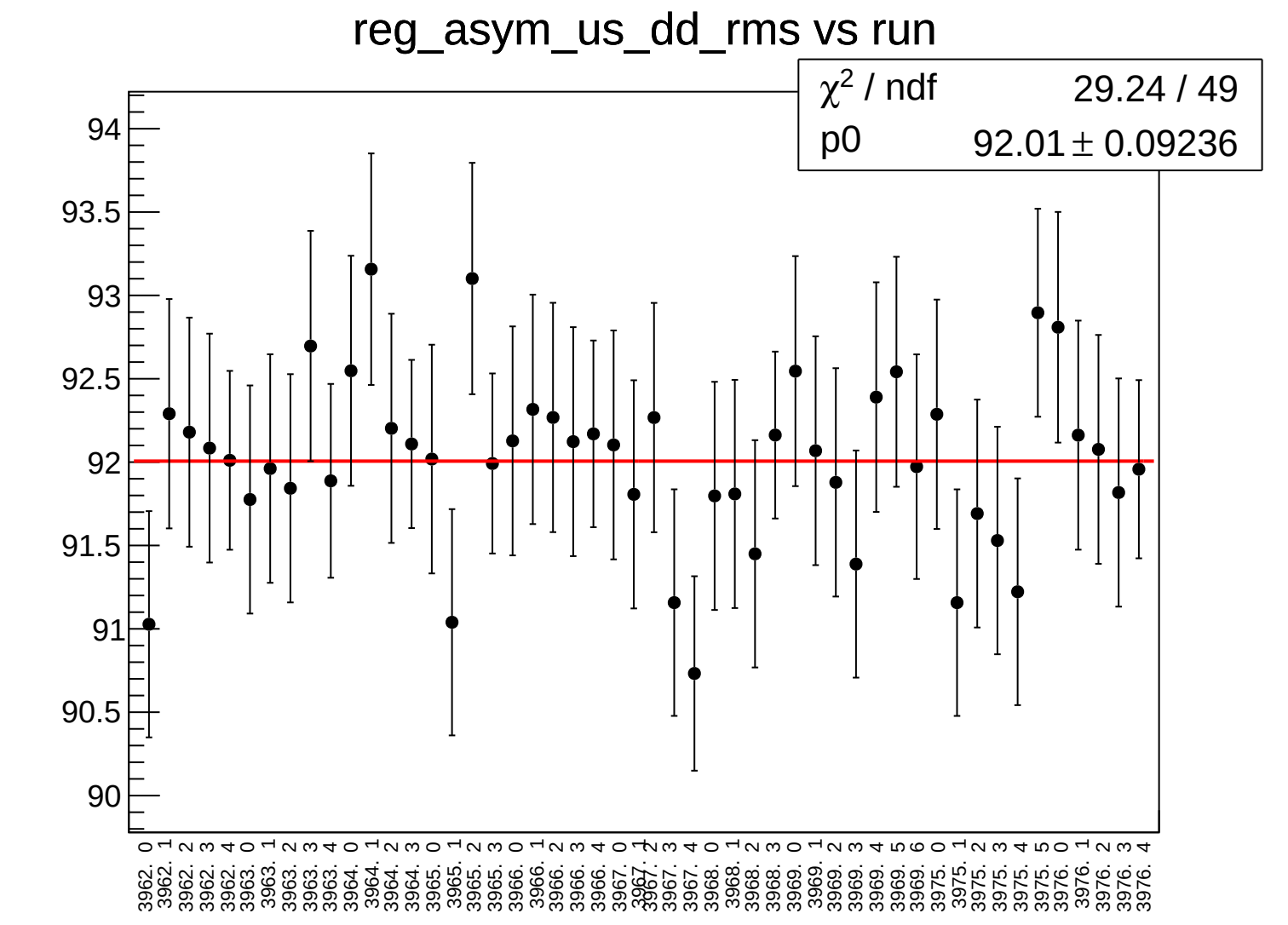

asym_us_avg_mean vs run
χ² / ndf 35.76 / 49
p0 −723.6 ± 388.1
10000
5000
0
−5000
−10000
pull
Entries 50
Mean −22.05
Std Dev 31.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

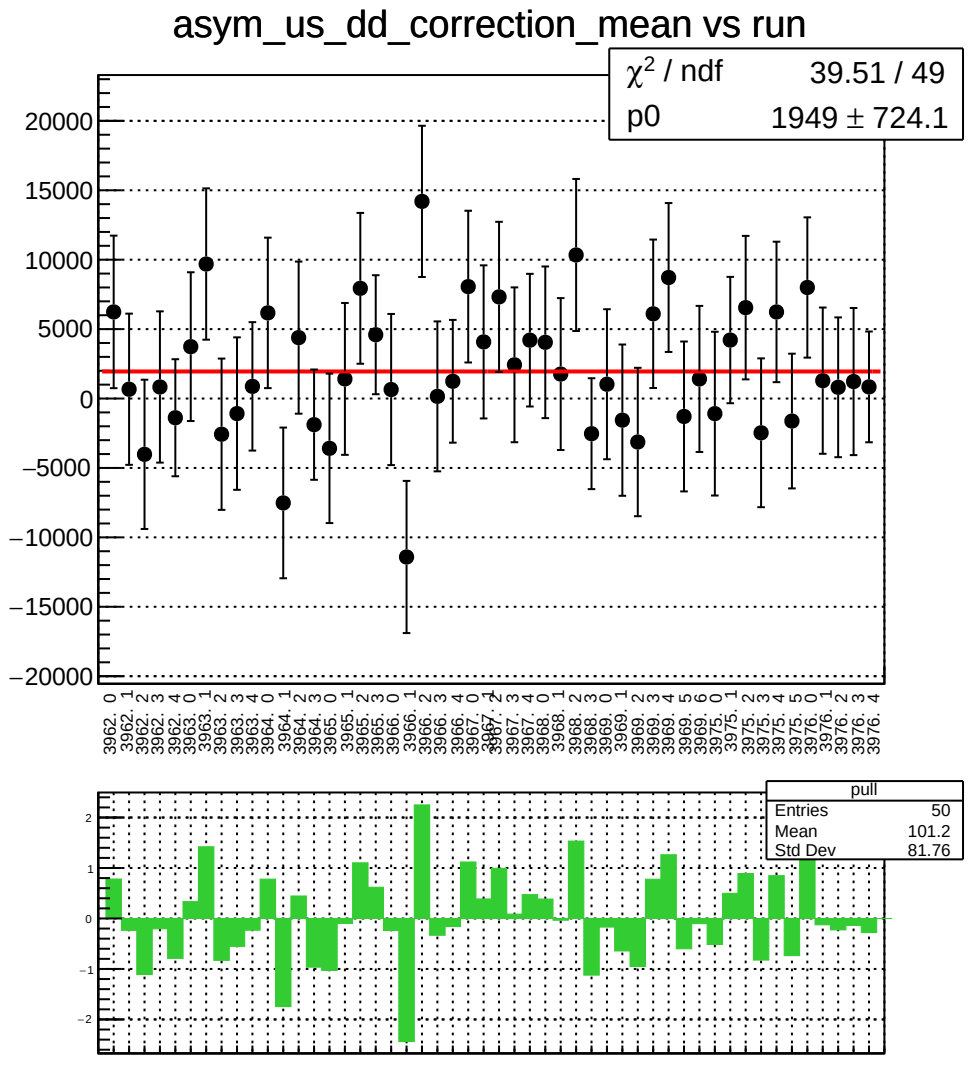

pull1D
Entries 50
Mean 0.01005
Std Dev 0.8456
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

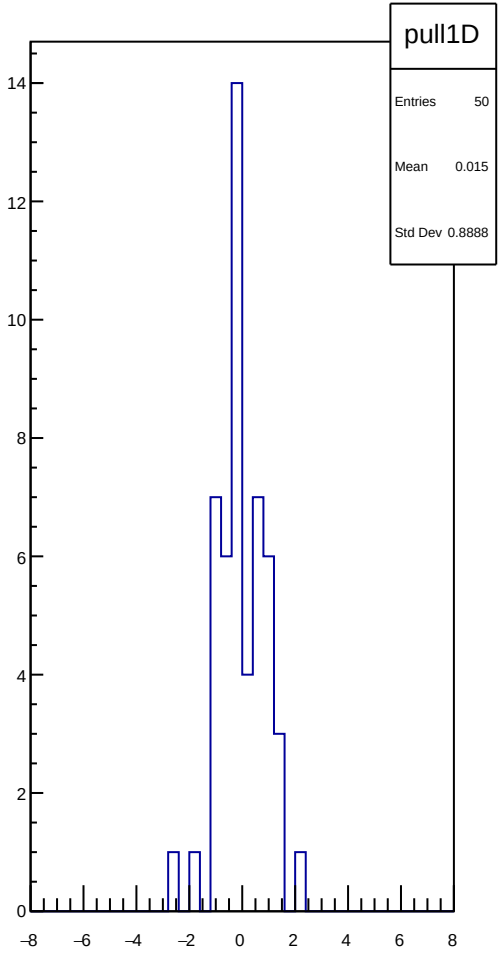

asym_us_avg_rms vs run
χ² / ndf 2266 / 49
p0 273 ± 0.2744
320
300
280
260
240
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

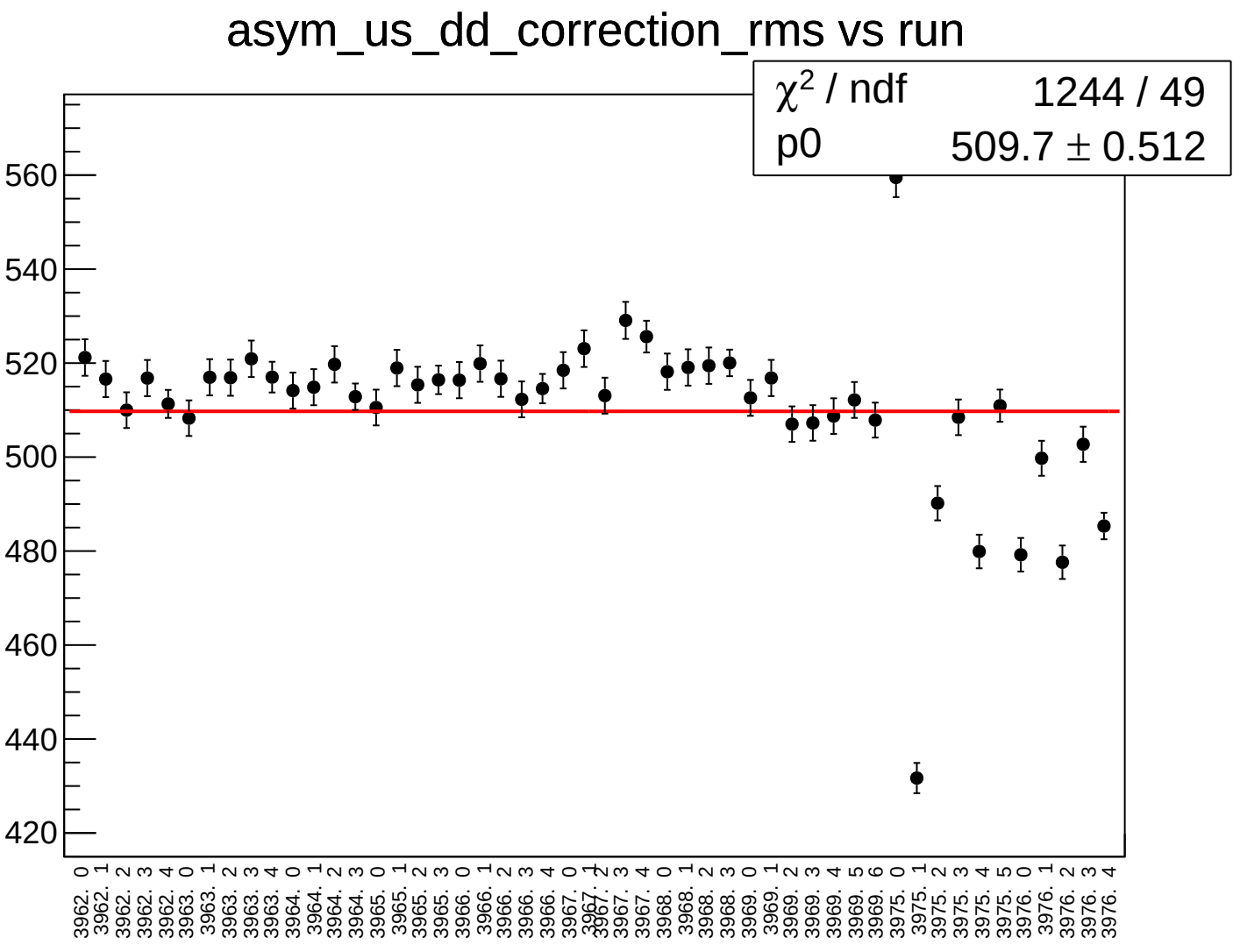

reg_asym_us_dd_mean vs run
χ² / ndf 81.75 / 49
p0 289 ± 130.6
pull
Entries 50
Mean 9.857e+04
Std Dev 9.855e+04

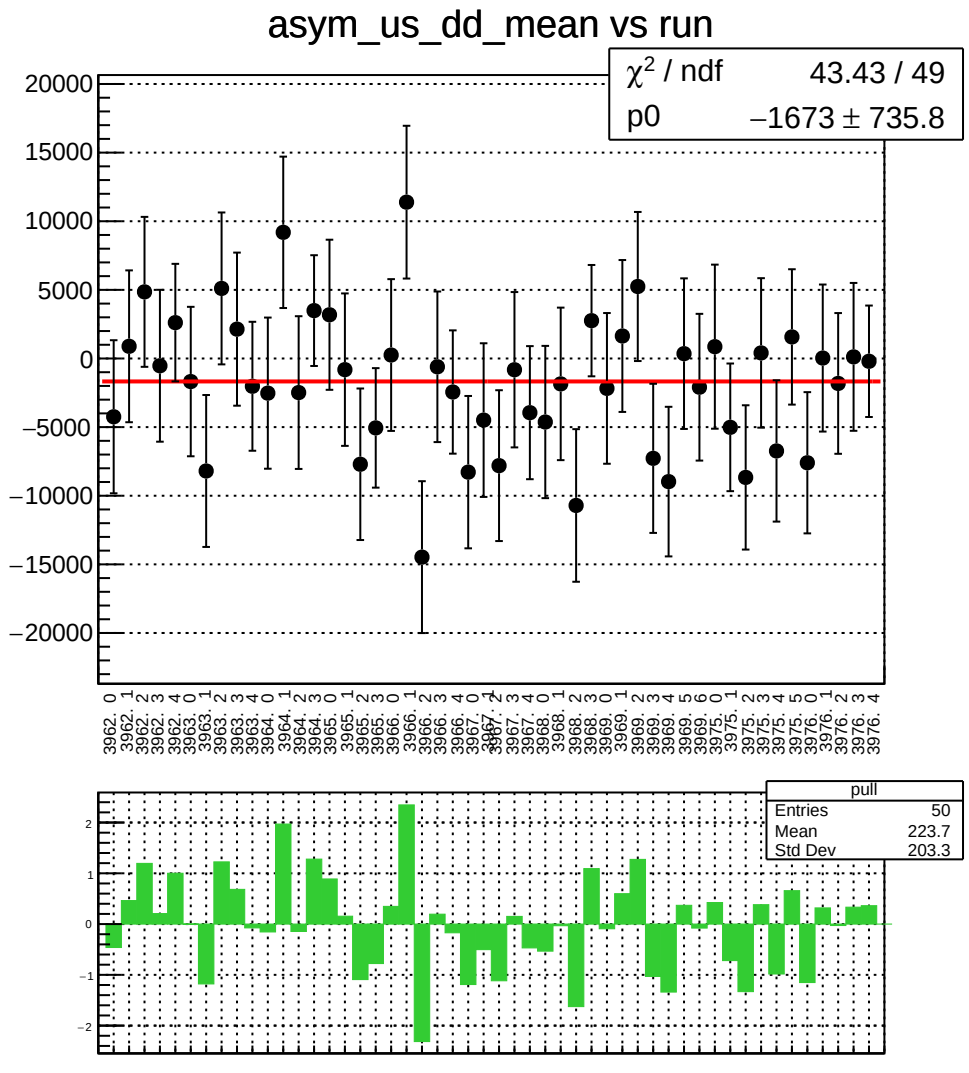

pull1D
Entries 50
Mean −8.964e−05
Std Dev 1.279

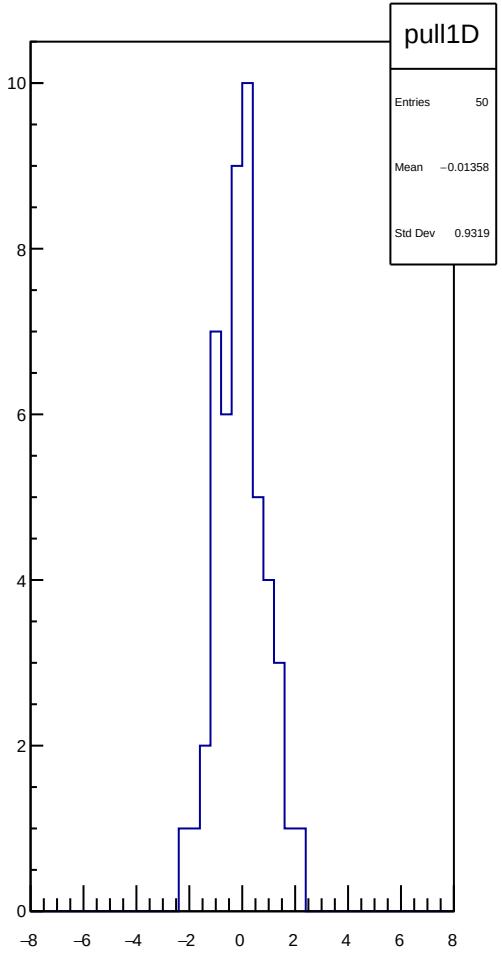

reg_asym_us_dd_rms vs run
χ^2 / ndf 29.24 / 49
p0 92.01 ± 0.09236
94
93.5
93
92.5
92
91.5
91
90.5
90
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

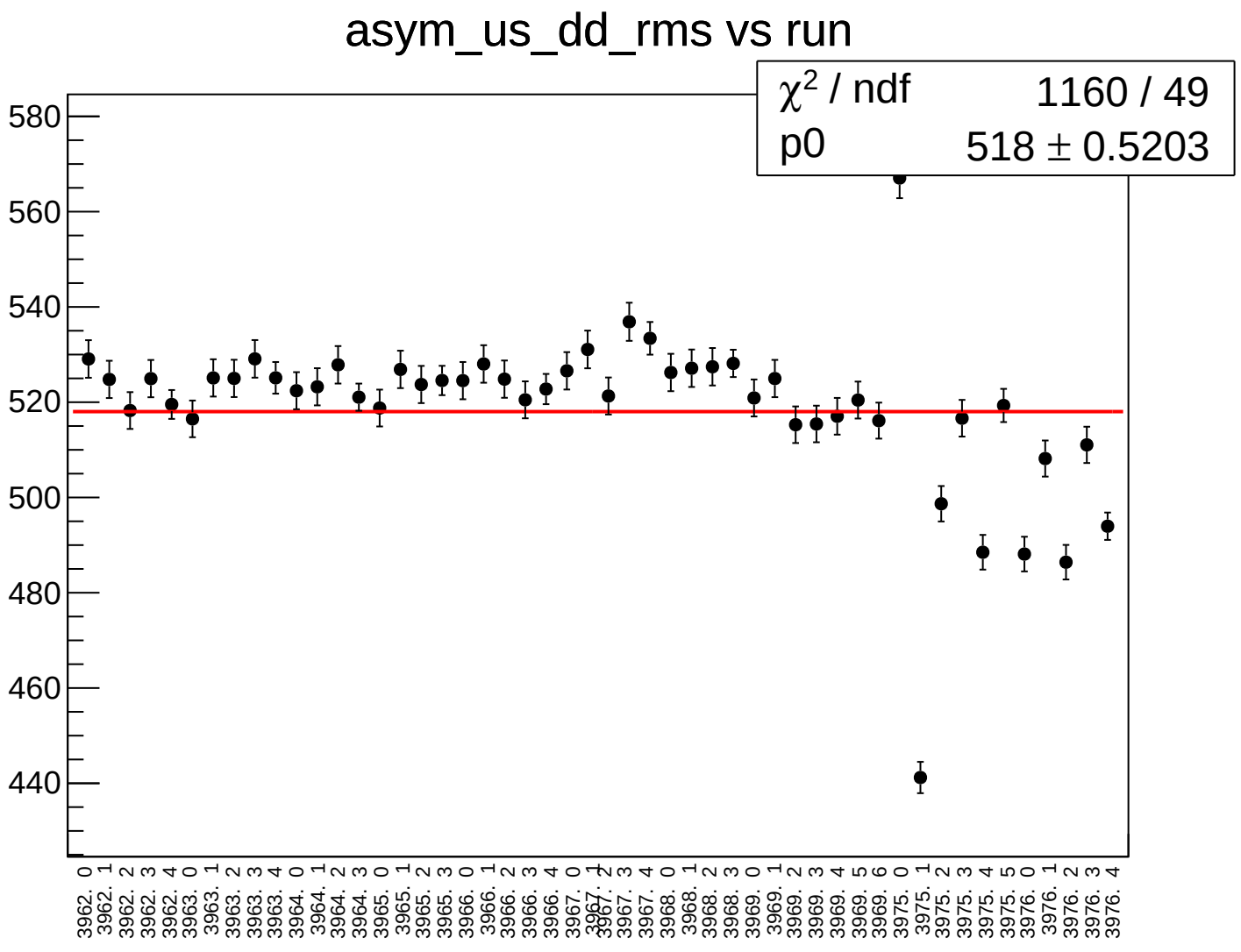

asym_us_dd_correction_mean vs run
χ² / ndf 39.51 / 49
p0 1949 ± 724.1
pull
Entries 50
Mean 101.2
Std Dev 81.76

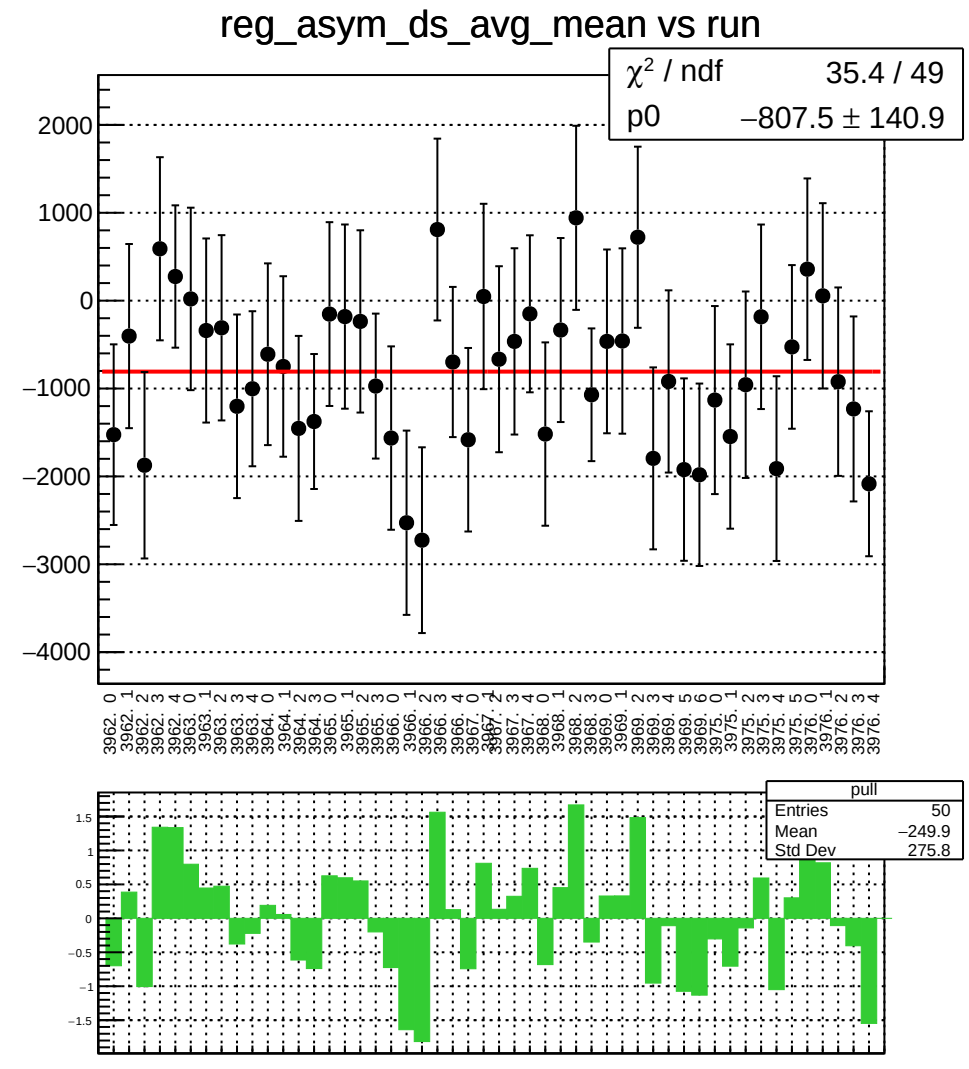

pull1D
Entries 50
Mean 0.015
Std Dev 0.8888

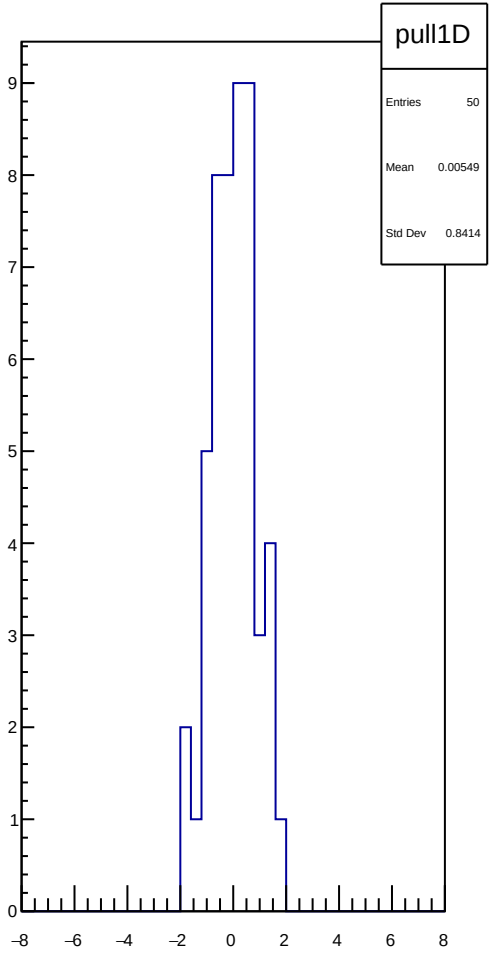

asym_us_dd_correction_rms vs run
χ² / ndf 1244 / 49
p0 509.7 ± 0.512
560
540
520
500
480
460
440
420
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

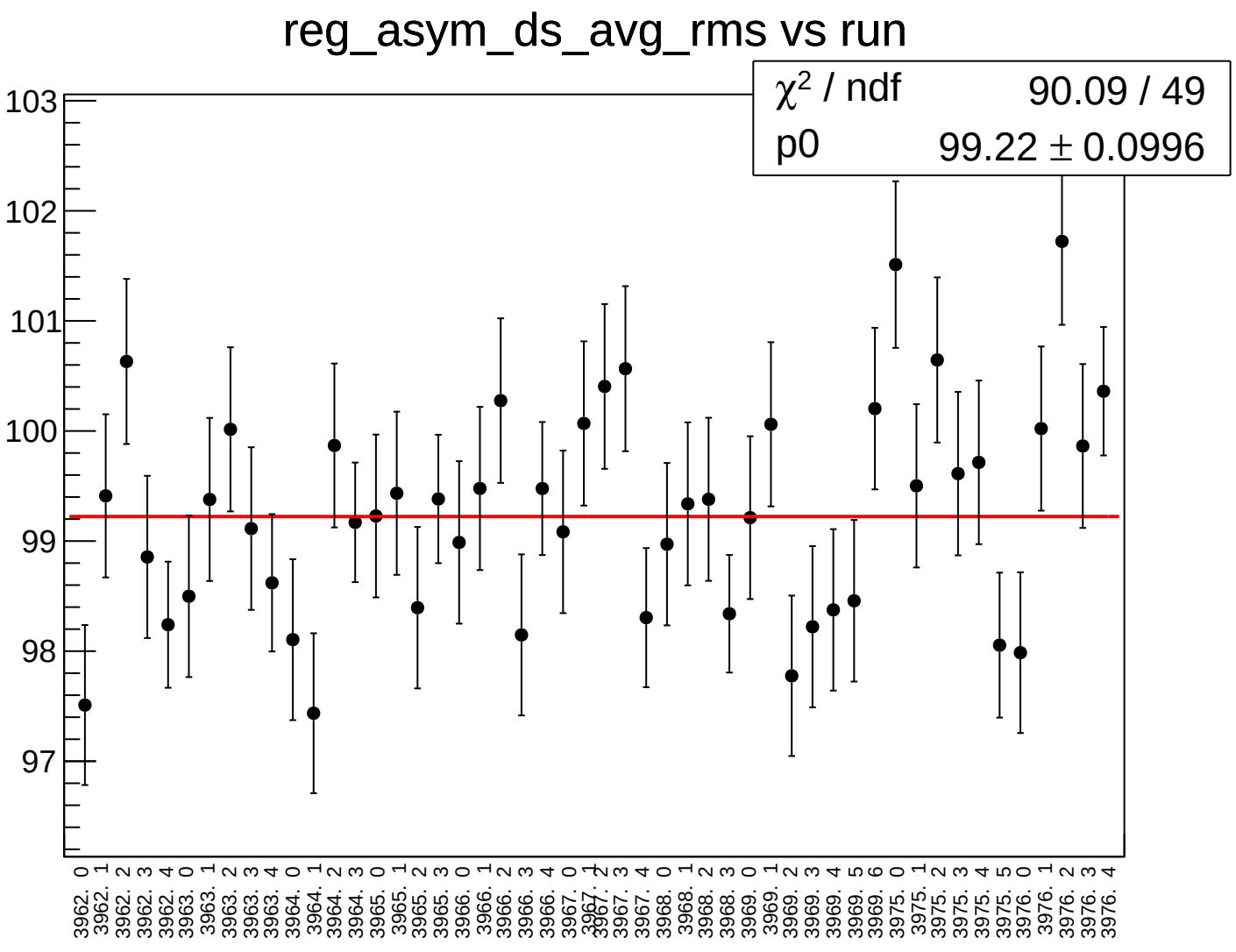

asym_us_dd_mean vs run
χ² / ndf 43.43 / 49
p0 −1673 ± 735.8
pull
Entries 50
Mean 223.7
Std Dev 203.3

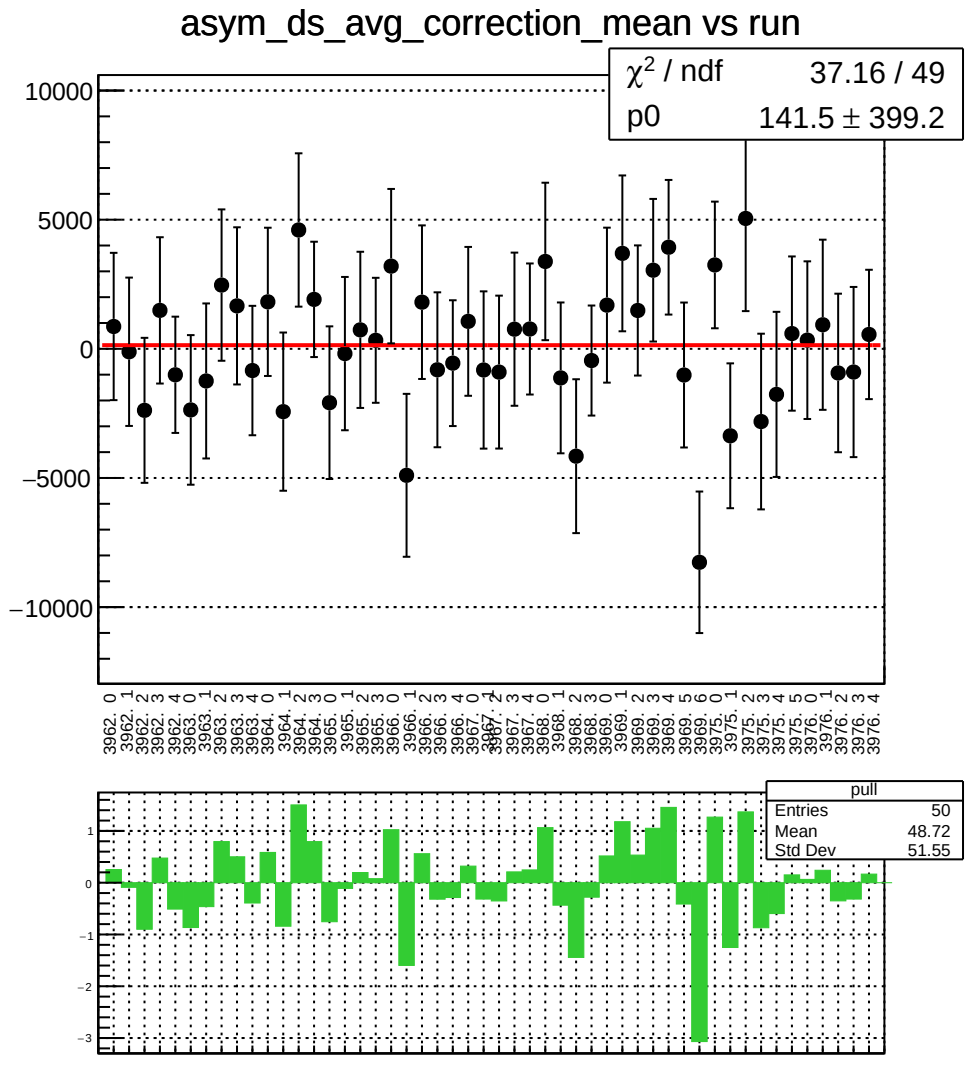

pull1D
Entries 50
Mean −0.01358
Std Dev 0.9319

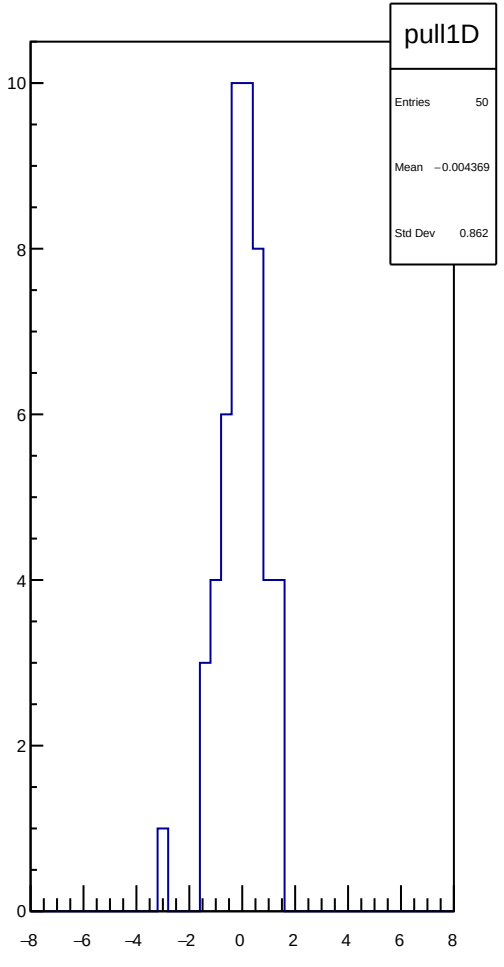

asym_us_dd_rms vs run
χ² / ndf 1160 / 49
p0 518 ± 0.5203
580
560
540
520
500
480
460
440
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

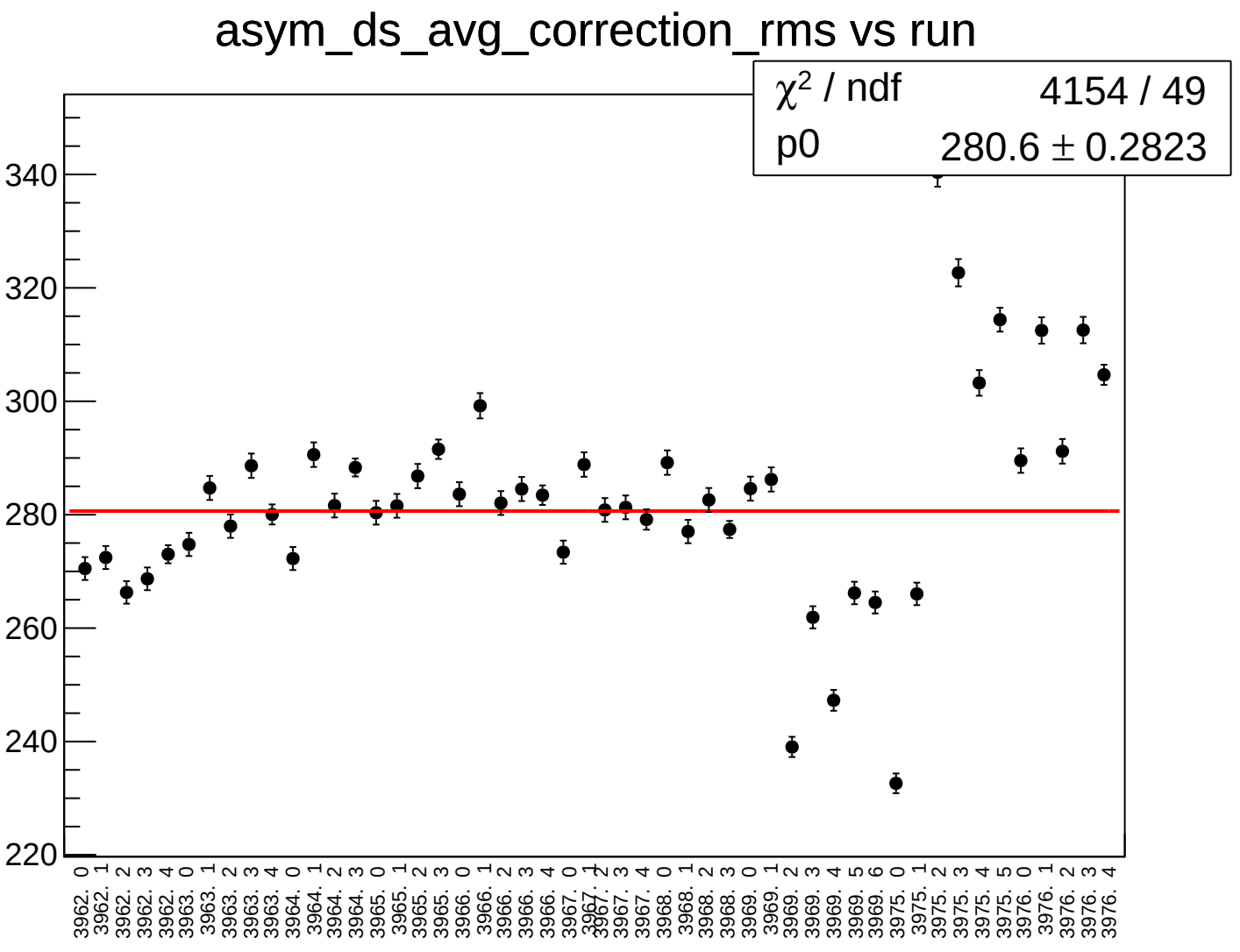

reg_asym_ds_avg_mean vs run
χ² / ndf 35.4 / 49
p0 −807.5 ± 140.9
2000
1000
0
−1000
−2000
−3000
−4000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −249.9
Std Dev 275.8
1.5
1
0.5
0
−0.5
−1
−1.5

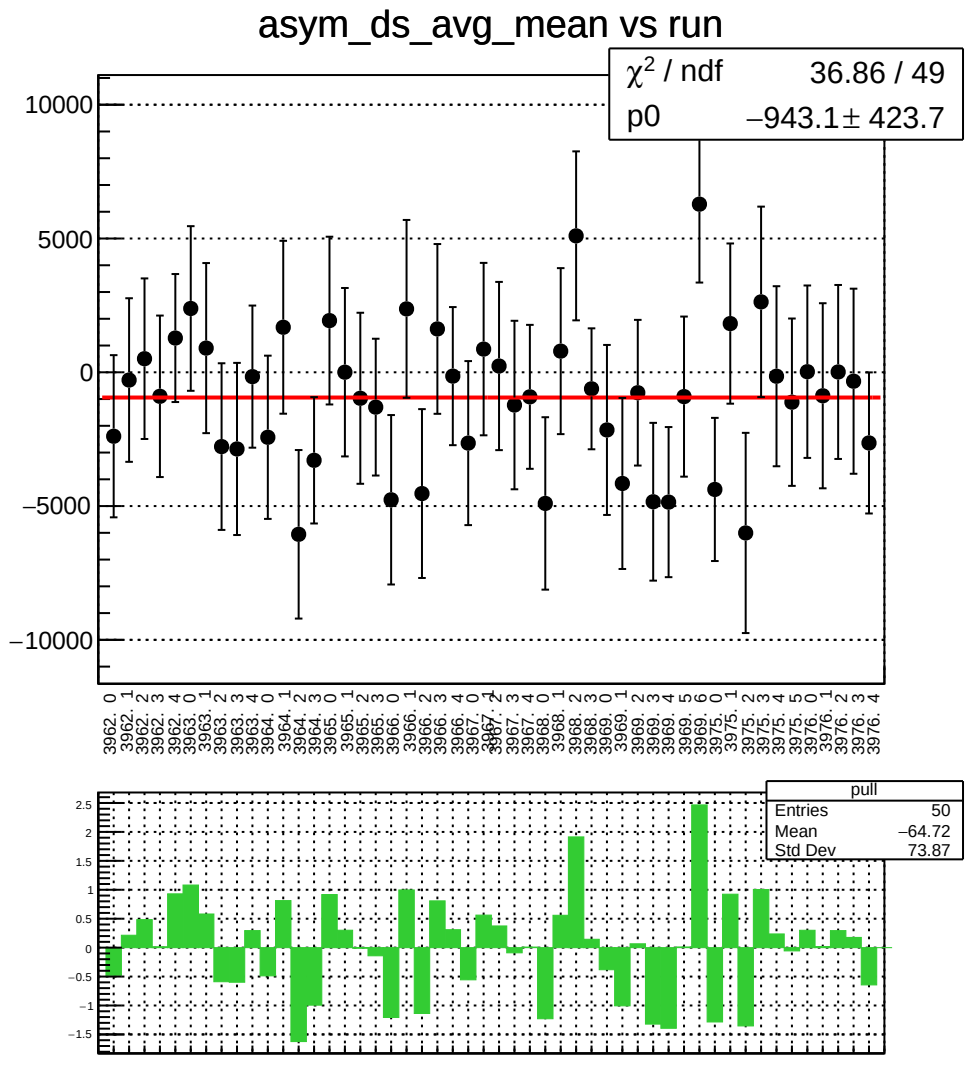

pull1D
Entries 50
Mean 0.00549
Std Dev 0.8414
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

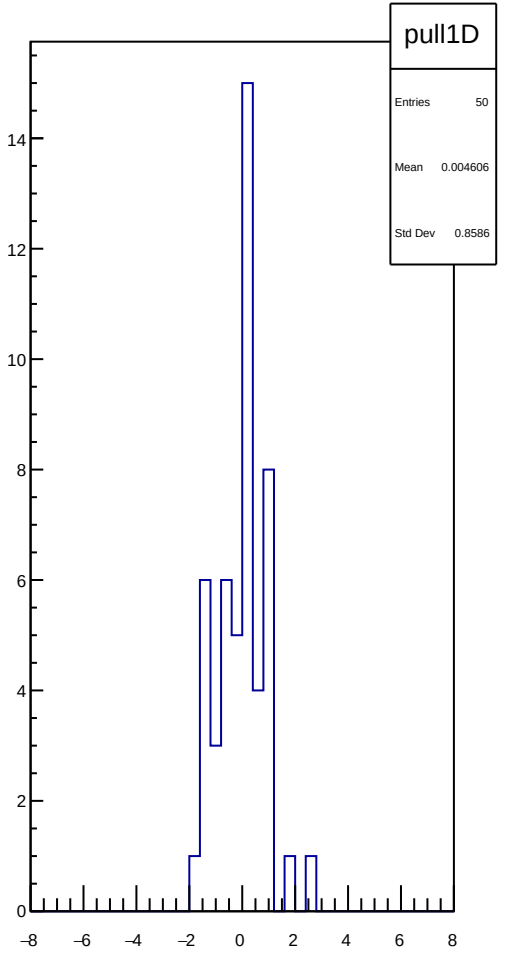

reg_asym_ds_avg_rms vs run
χ^2 / ndf 90.09 / 49
p0 99.22 ± 0.0996
103
102
101
100
99
98
97
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

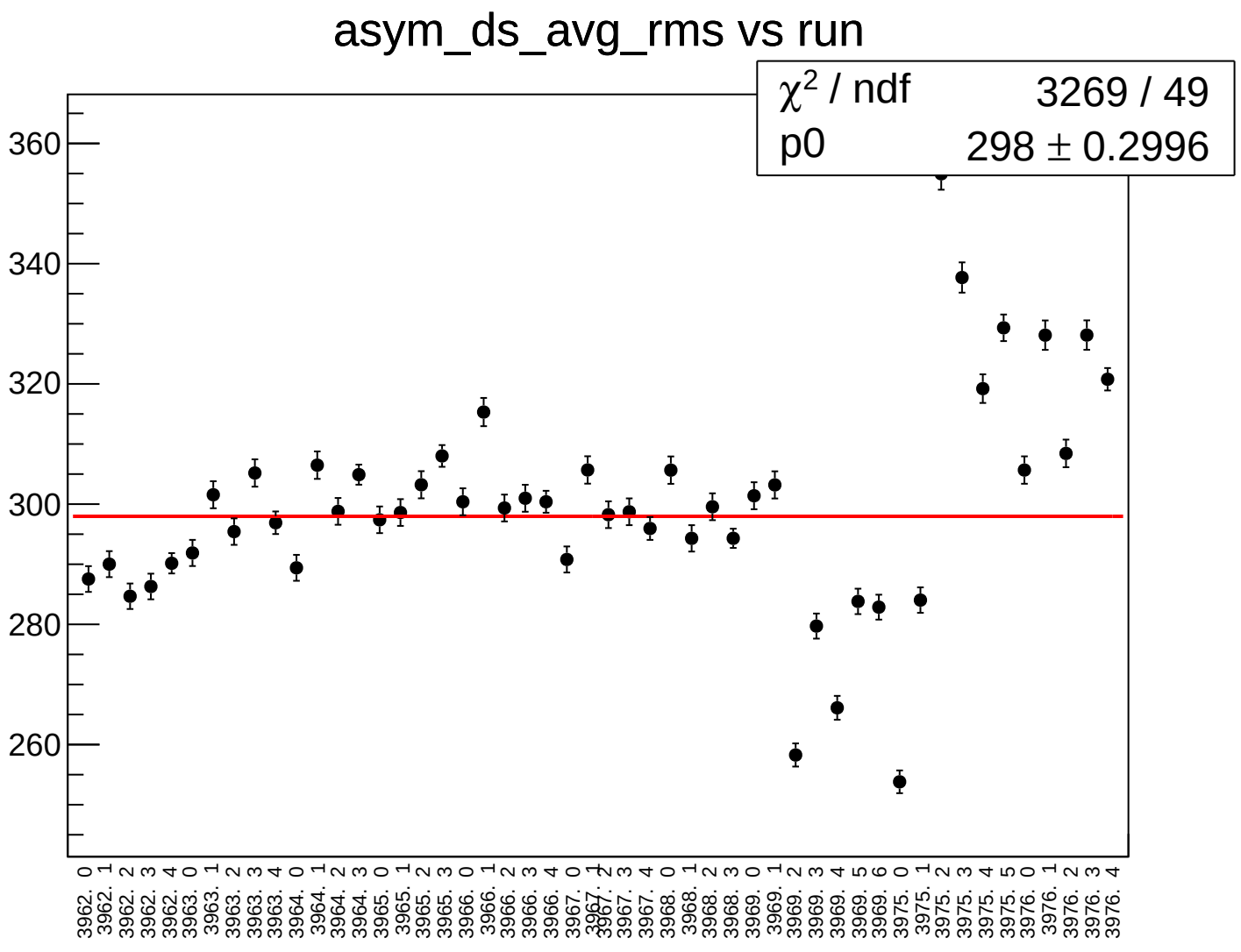

asym_ds_avg_correction_mean vs run
χ² / ndf 37.16 / 49
p0 141.5 ± 399.2
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 48.72
Std Dev 51.55

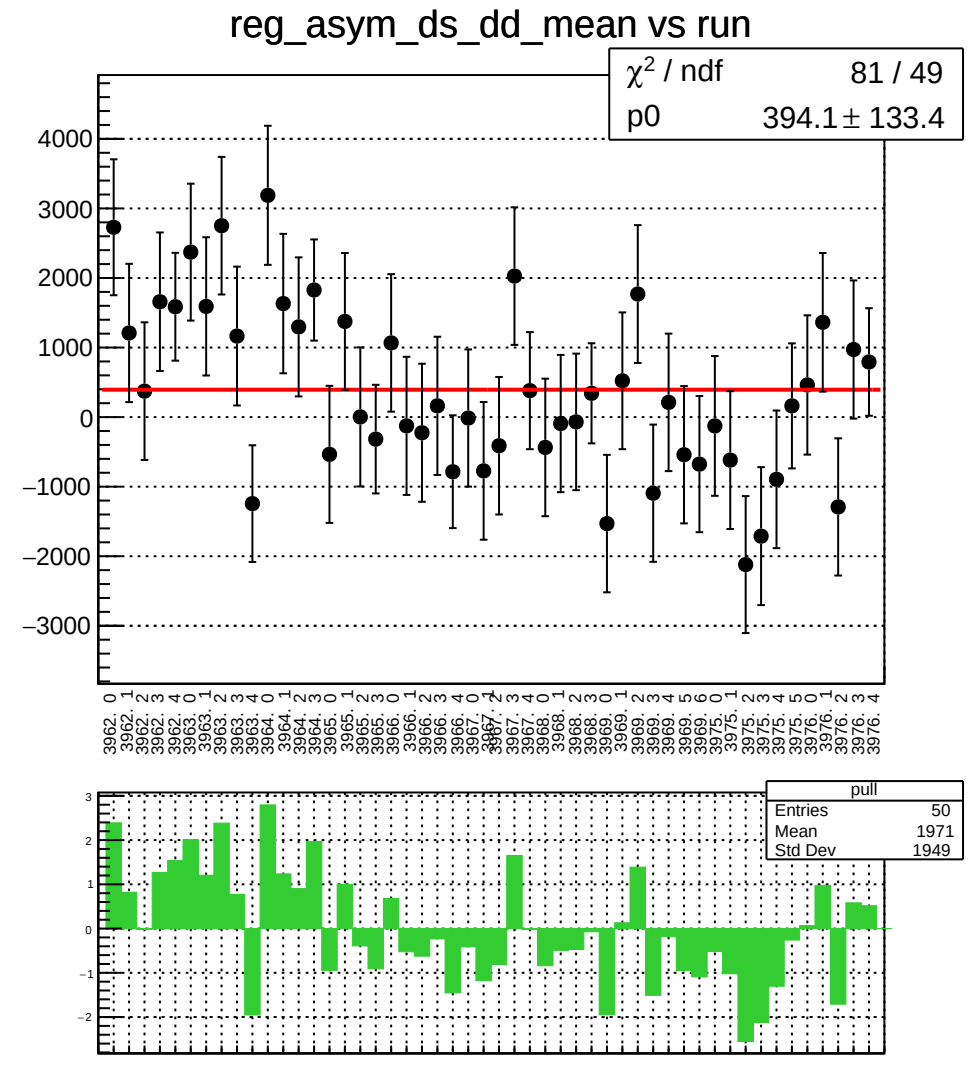

pull1D
Entries 50
Mean −0.004369
Std Dev 0.862

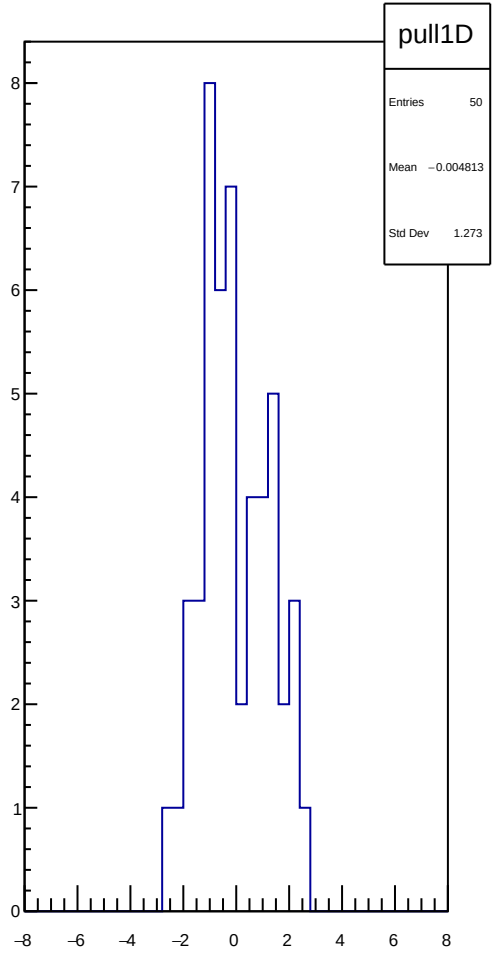

asym_ds_avg_correction_rms vs run
χ² / ndf 4154 / 49
p0 280.6 ± 0.2823
340
320
300
280
260
240
220
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

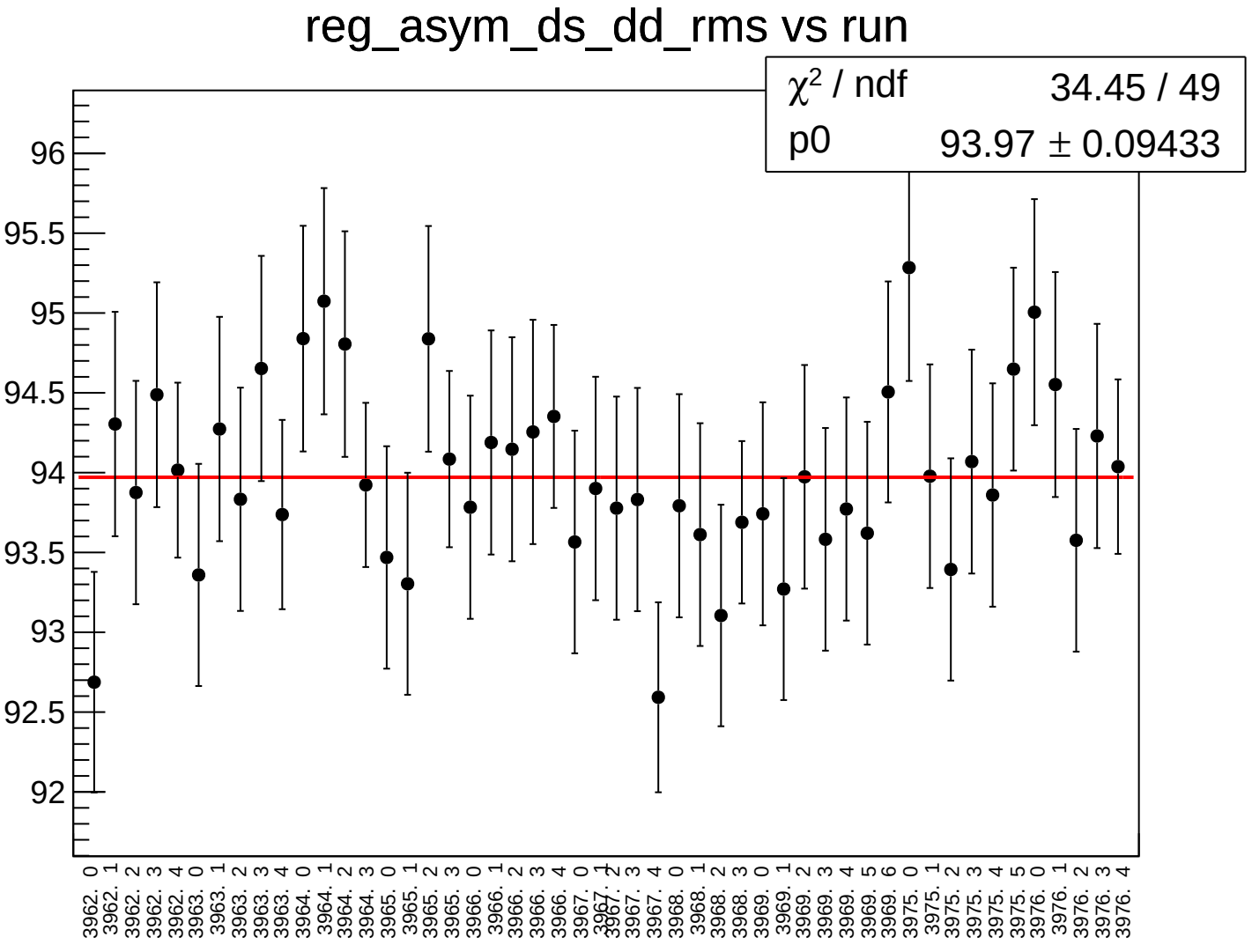

asym_ds_avg_mean vs run
χ² / ndf 36.86 / 49
p0 −943.1 ± 423.7
10000
5000
0
−5000
−10000
pull
Entries 50
Mean −64.72
Std Dev 73.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

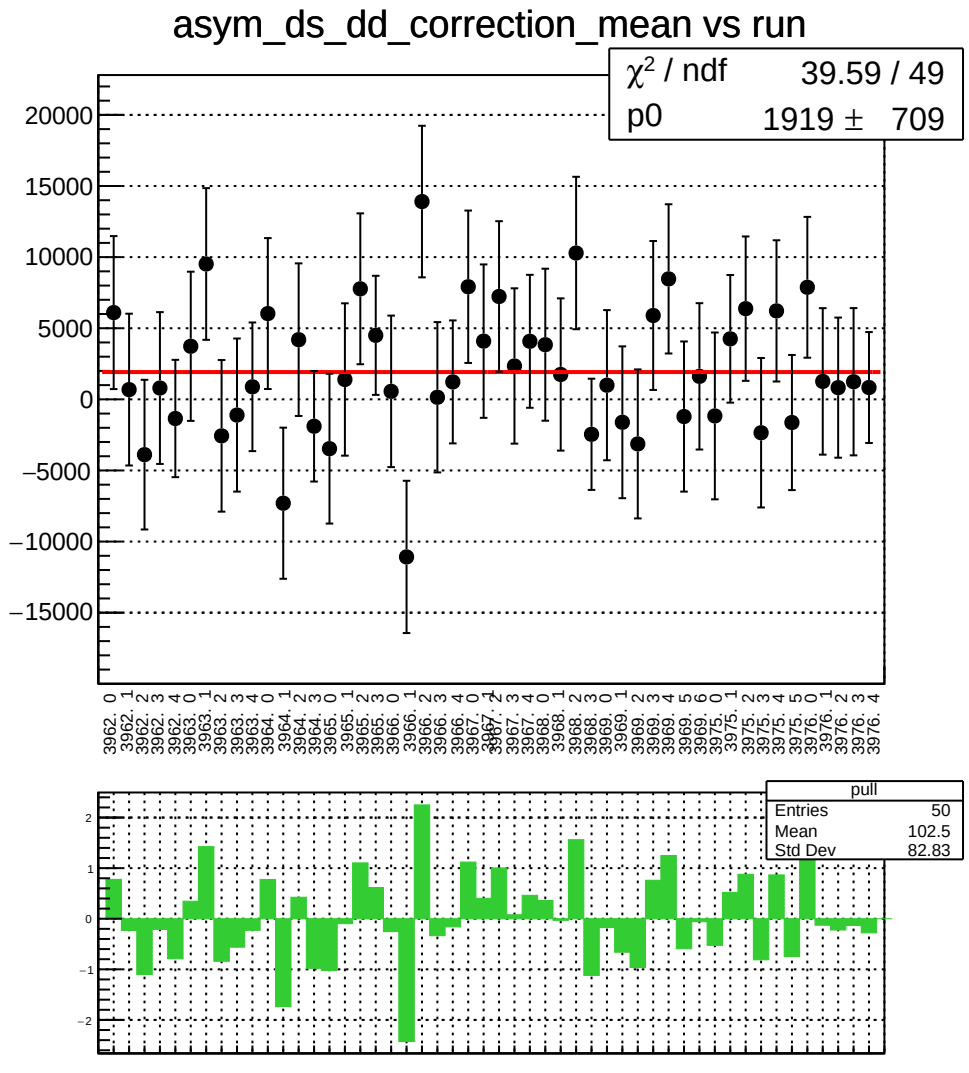

pull1D
Entries 50
Mean 0.004606
Std Dev 0.8586
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

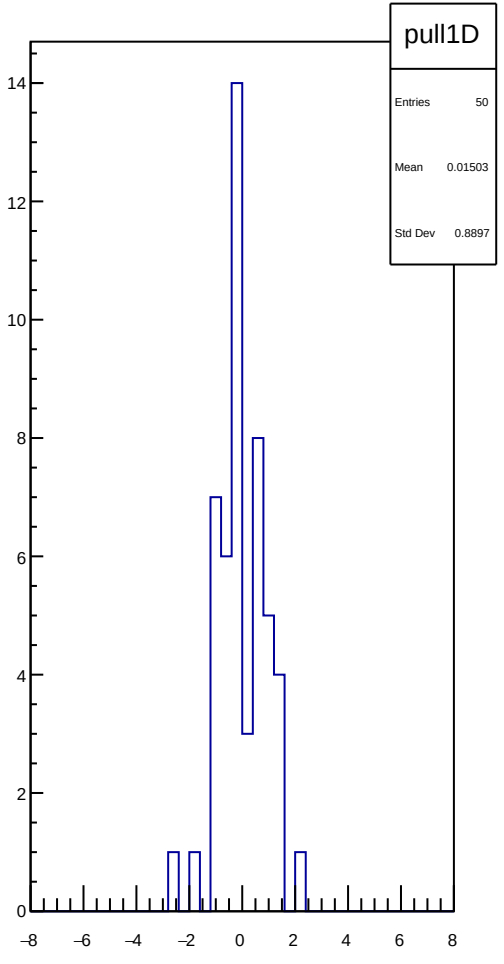

asym_ds_avg_rms vs run
χ² / ndf 3269 / 49
p0 298 ± 0.2996
360
340
320
300
280
260
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

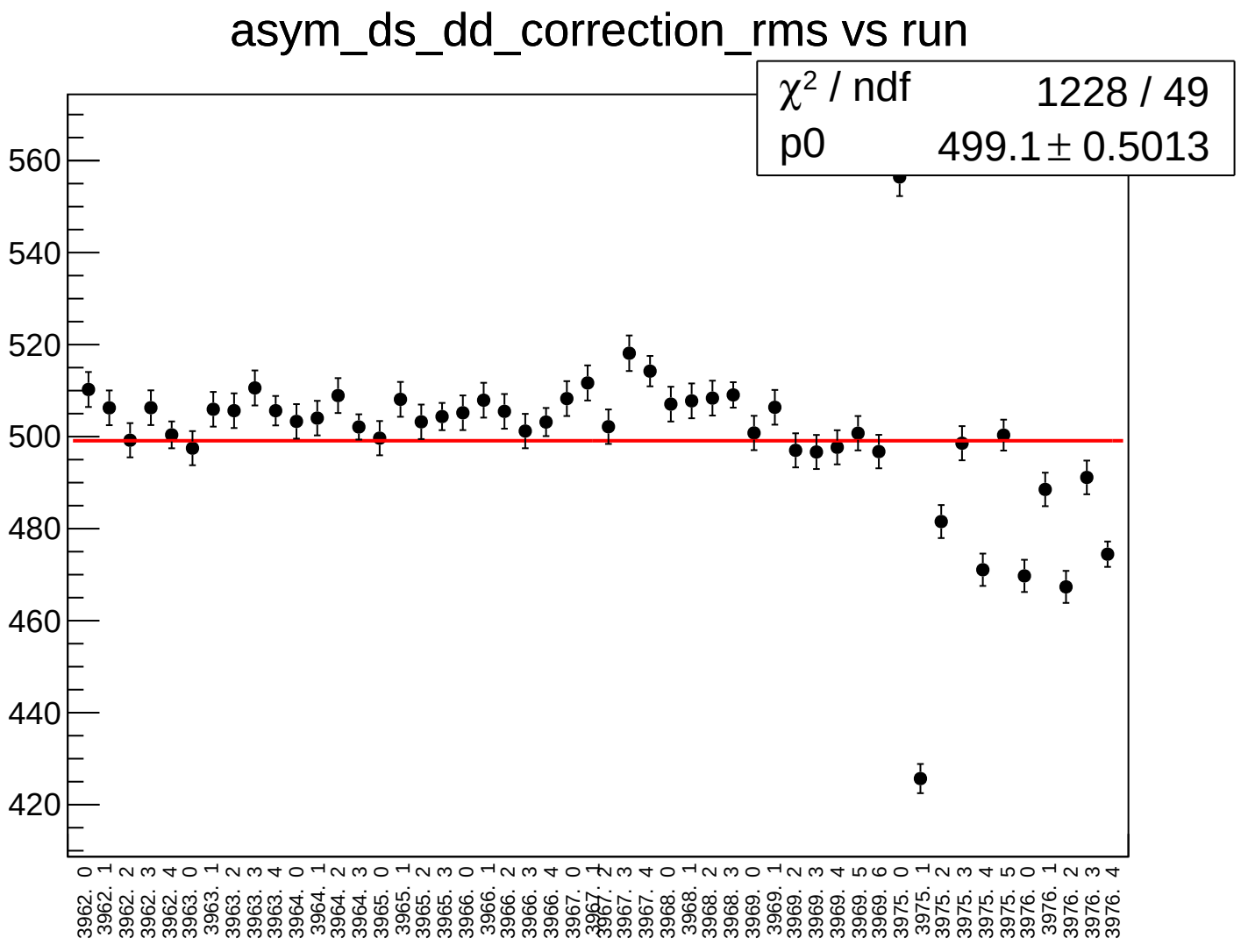

reg_asym_ds_dd_mean vs run
χ² / ndf 81 / 49
p0 394.1 ± 133.4
pull
Entries 50
Mean 1971
Std Dev 1949

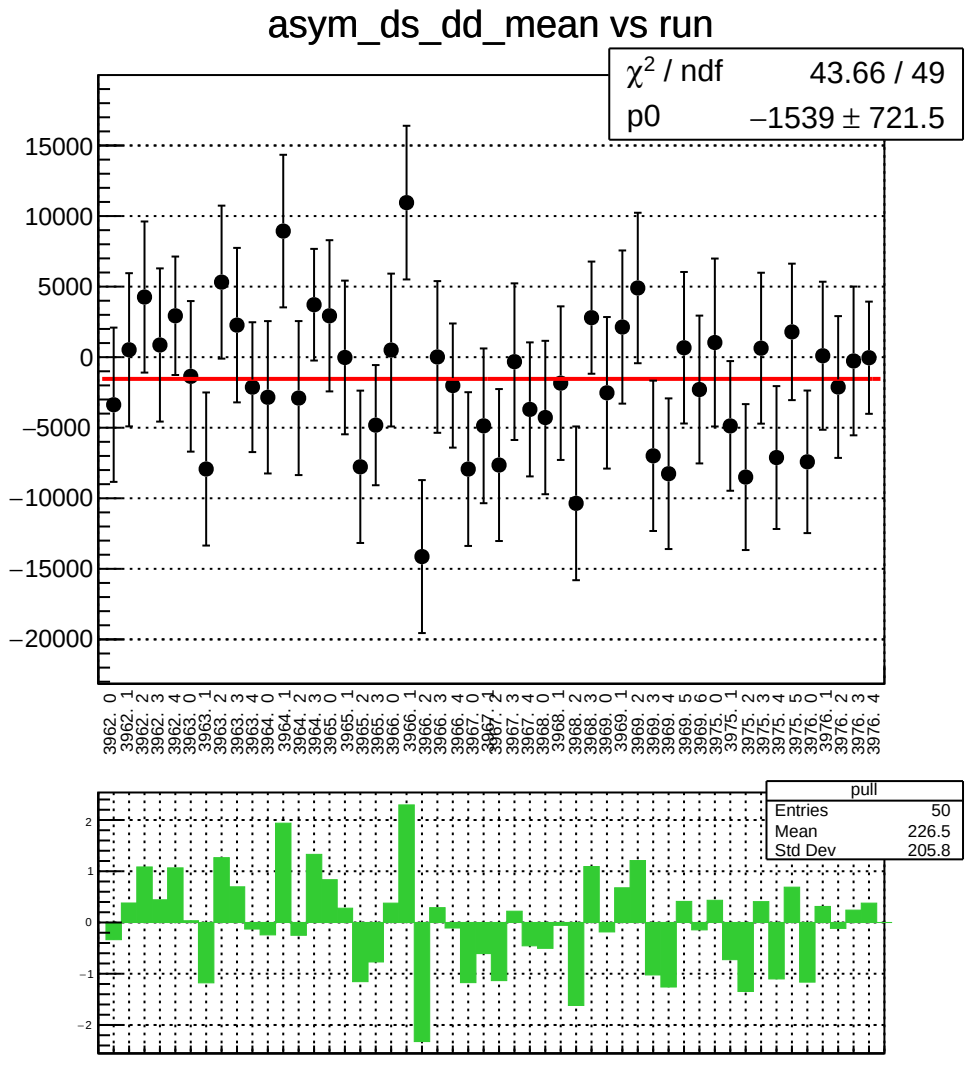

pull1D
Entries 50
Mean −0.004813
Std Dev 1.273

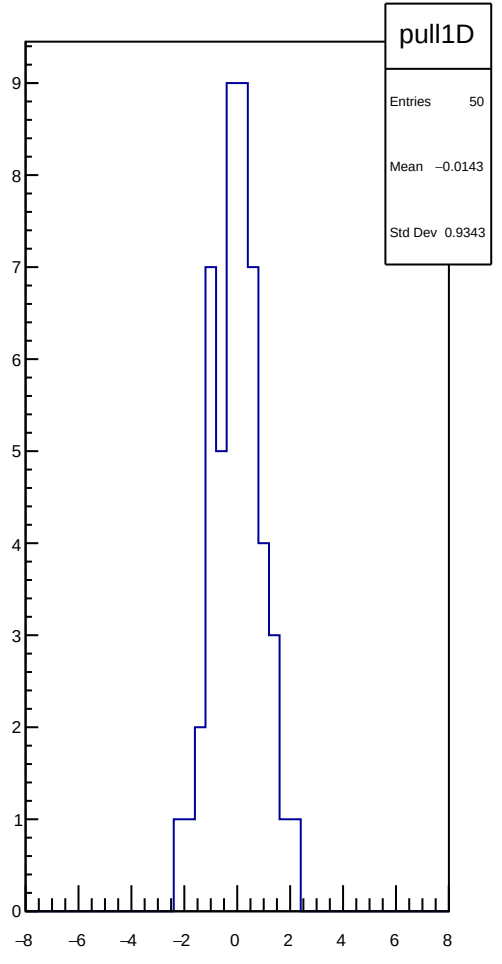

reg_asym_ds_dd_rms vs run
χ² / ndf 34.45 / 49
p0 93.97 ± 0.09433
96
95.5
95
94.5
94
93.5
93
92.5
92
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

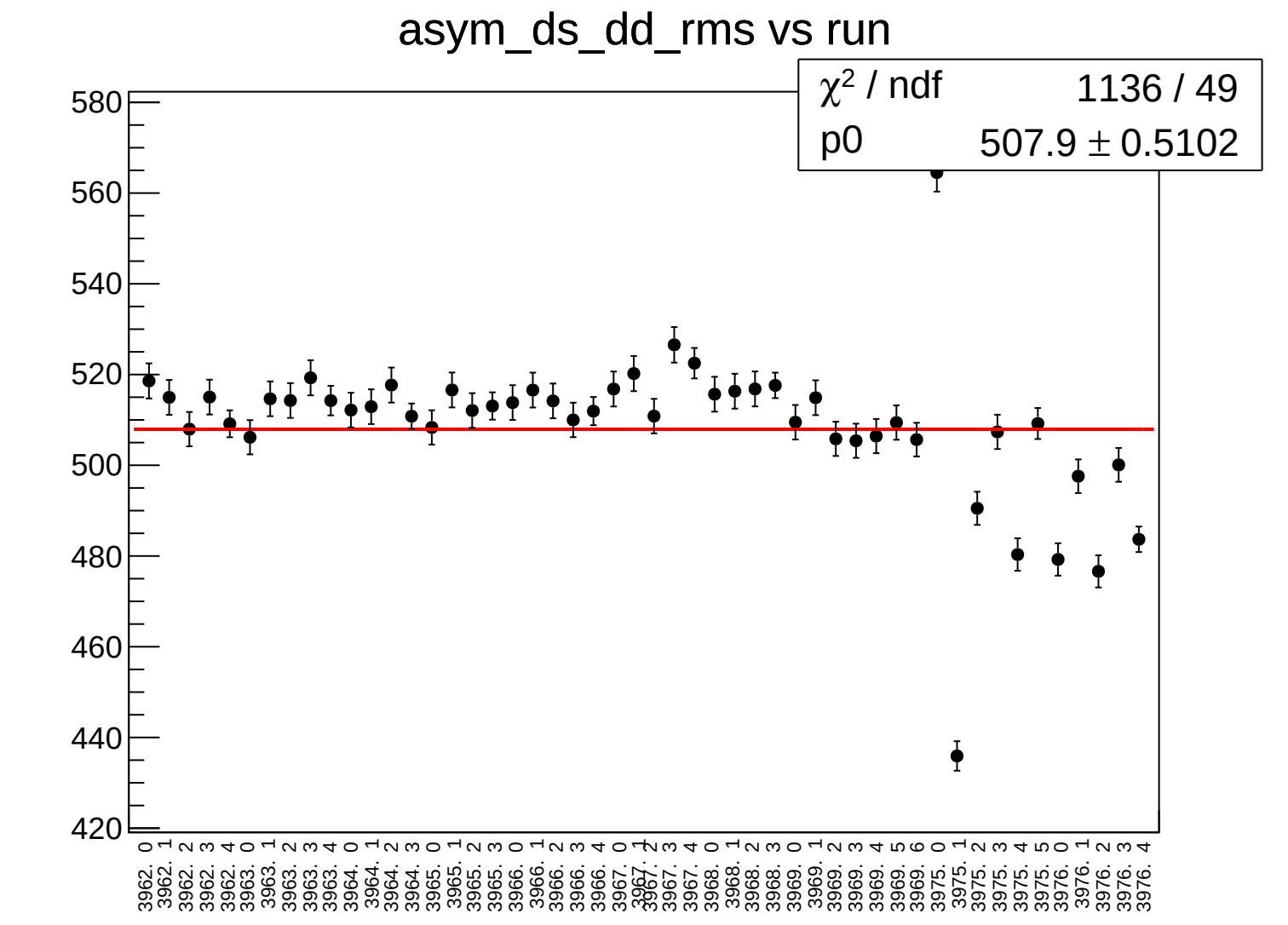

asym_ds_dd_correction_mean vs run
χ² / ndf 39.59 / 49
p0 1919 ± 709
pull
Entries 50
Mean 102.5
Std Dev 82.83

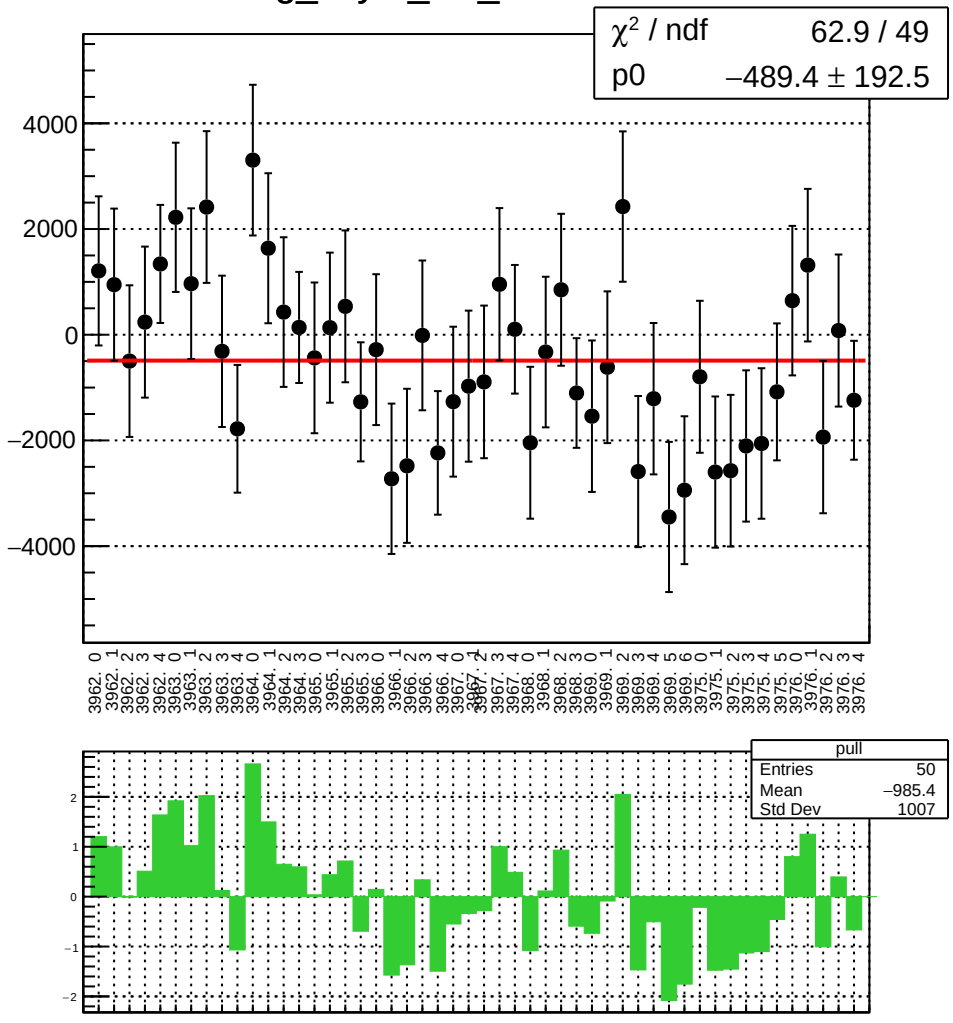

pull1D
Entries 50
Mean 0.01503
Std Dev 0.8897

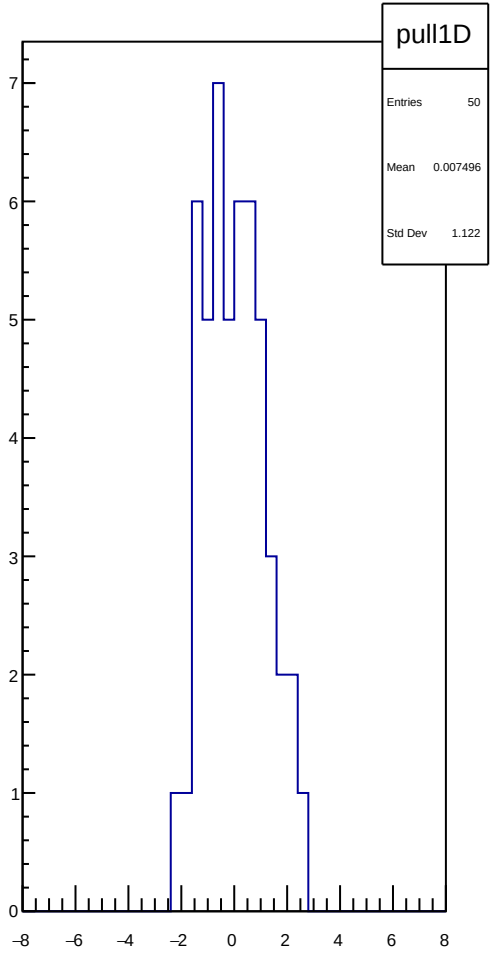

asym_ds_dd_correction_rms vs run
χ² / ndf 1228 / 49
p0 499.1 ± 0.5013
560
540
520
500
480
460
440
420
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

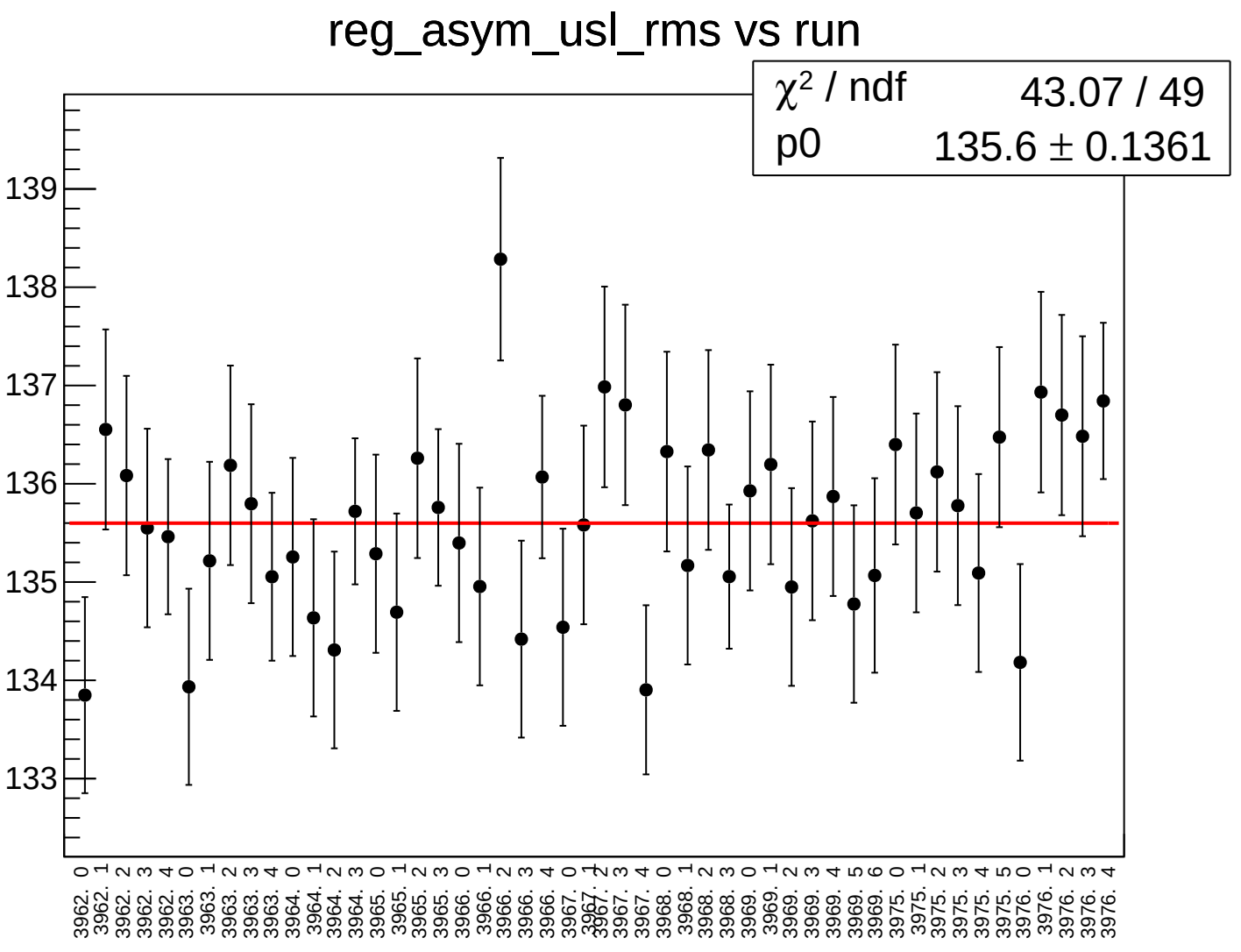

asym_ds_dd_mean vs run
χ^2 / ndf 43.66 / 49
p0 −1539 ± 721.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 50
Mean 226.5
Std Dev 205.8
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.0143
Std Dev 0.9343
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_rms vs run
χ² / ndf 1136 / 49
p0 507.9 ± 0.5102
580
560
540
520
500
480
460
440
420
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_usl_mean vs run
χ² / ndf 62.9 / 49
p0 −489.4 ± 192.5
4000
2000
0
−2000
−4000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −985.4
Std Dev 1007
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.007496
Std Dev 1.122
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 43.07 / 49
p0 135.6 ± 0.1361
139
138
137
136
135
134
133
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
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3964. 1
3964. 2
3964. 3
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3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
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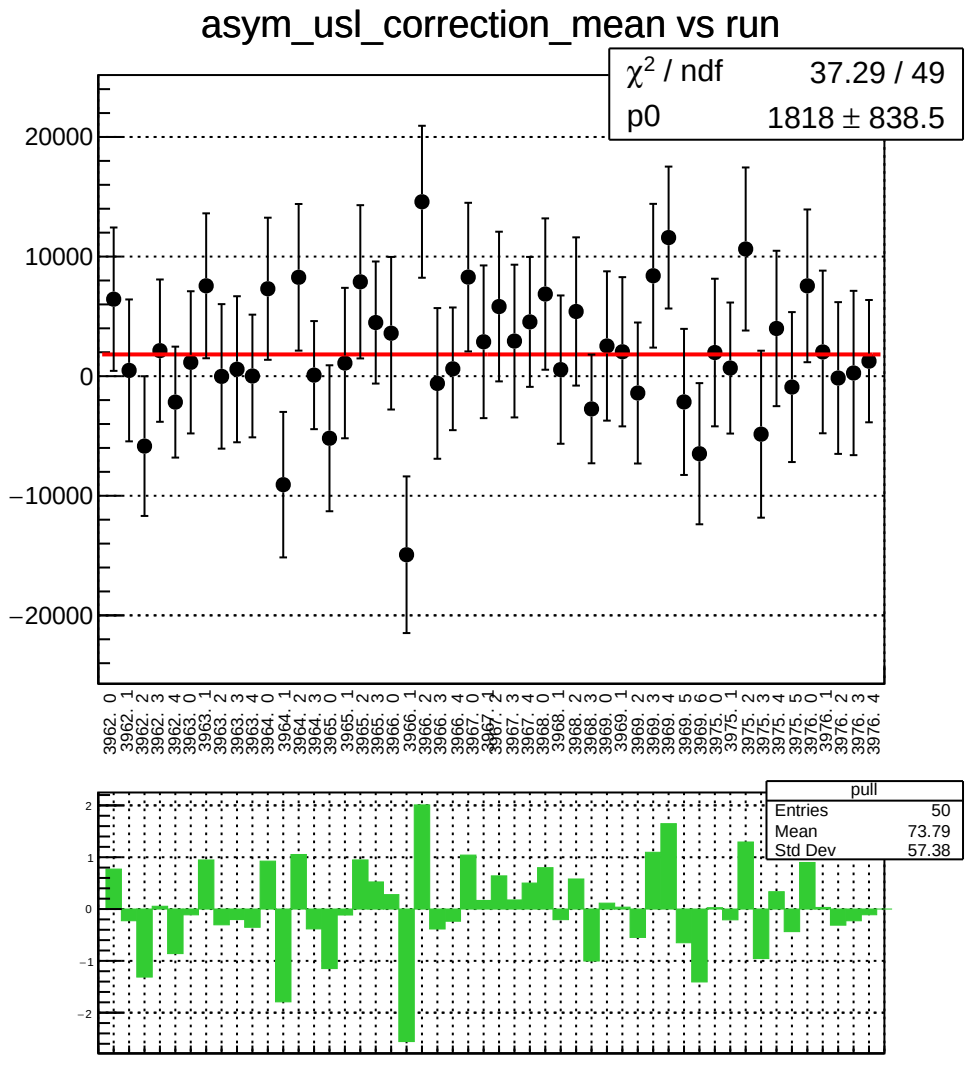
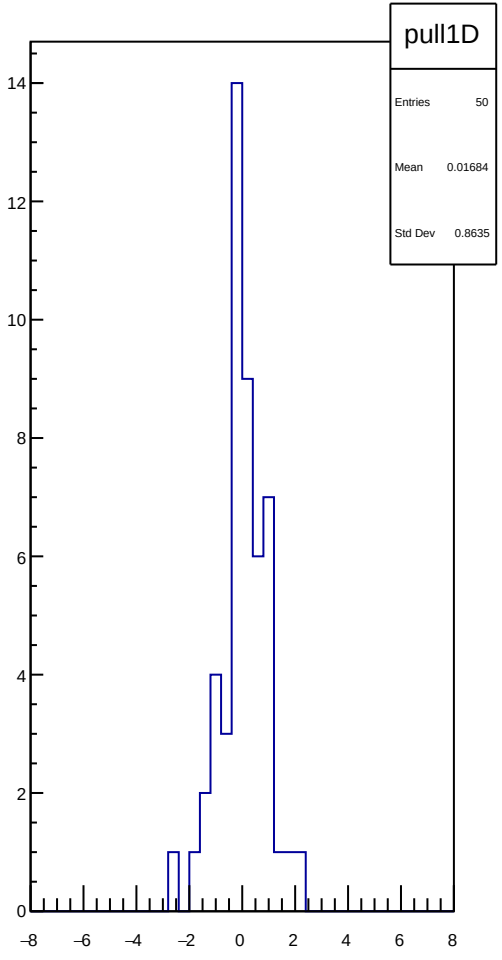
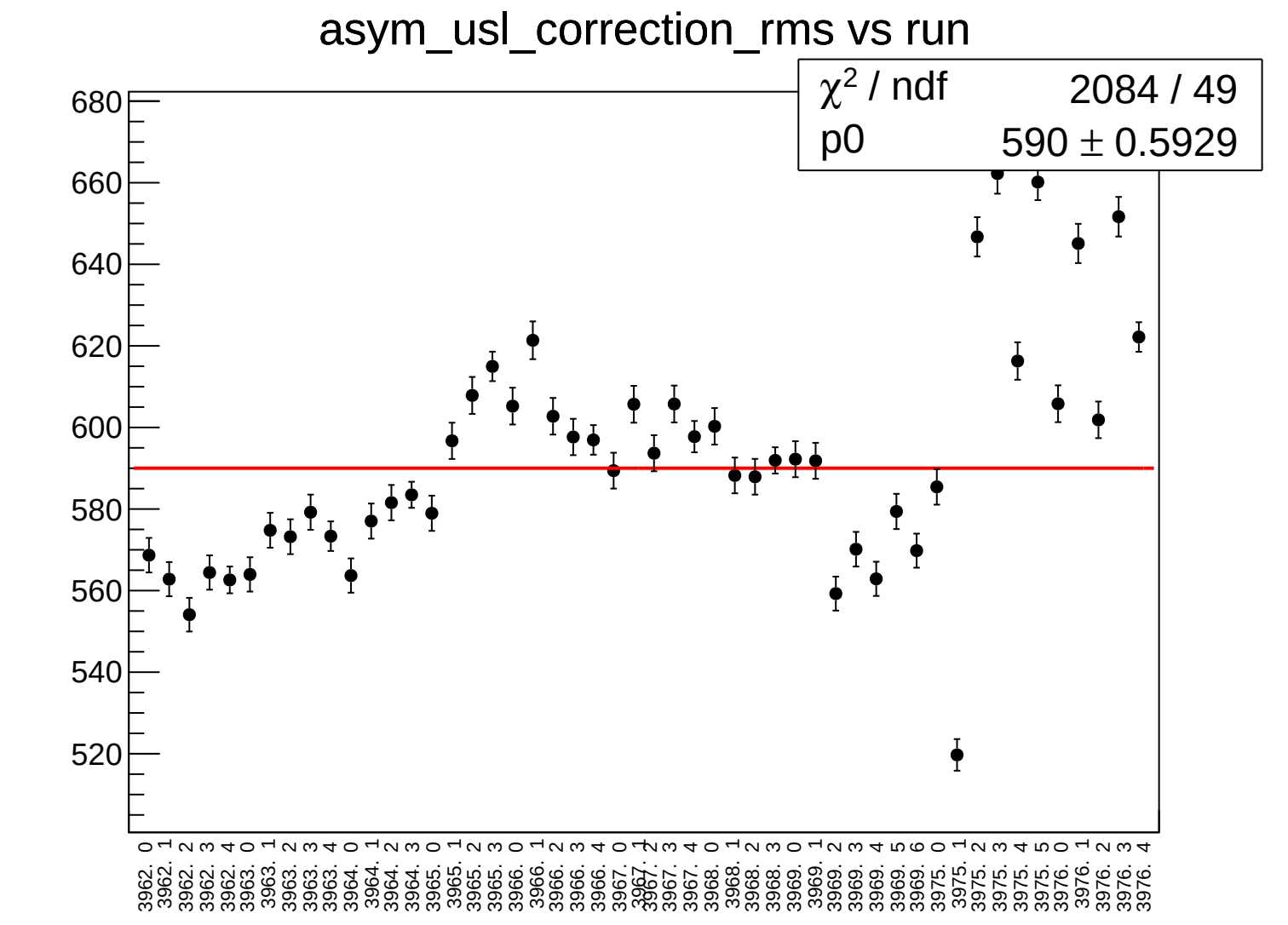
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_usl_correction_mean vs run
χ² / ndf 37.29 / 49
p0 1818 ± 838.5
20000
10000
0
−10000
−20000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 73.79
Std Dev 57.38
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.01684
Std Dev 0.8635
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_correction_rms vs run
χ² / ndf 2084 / 49
p0 590 ± 0.5929
680
660
640
620
600
580
560
540
520
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
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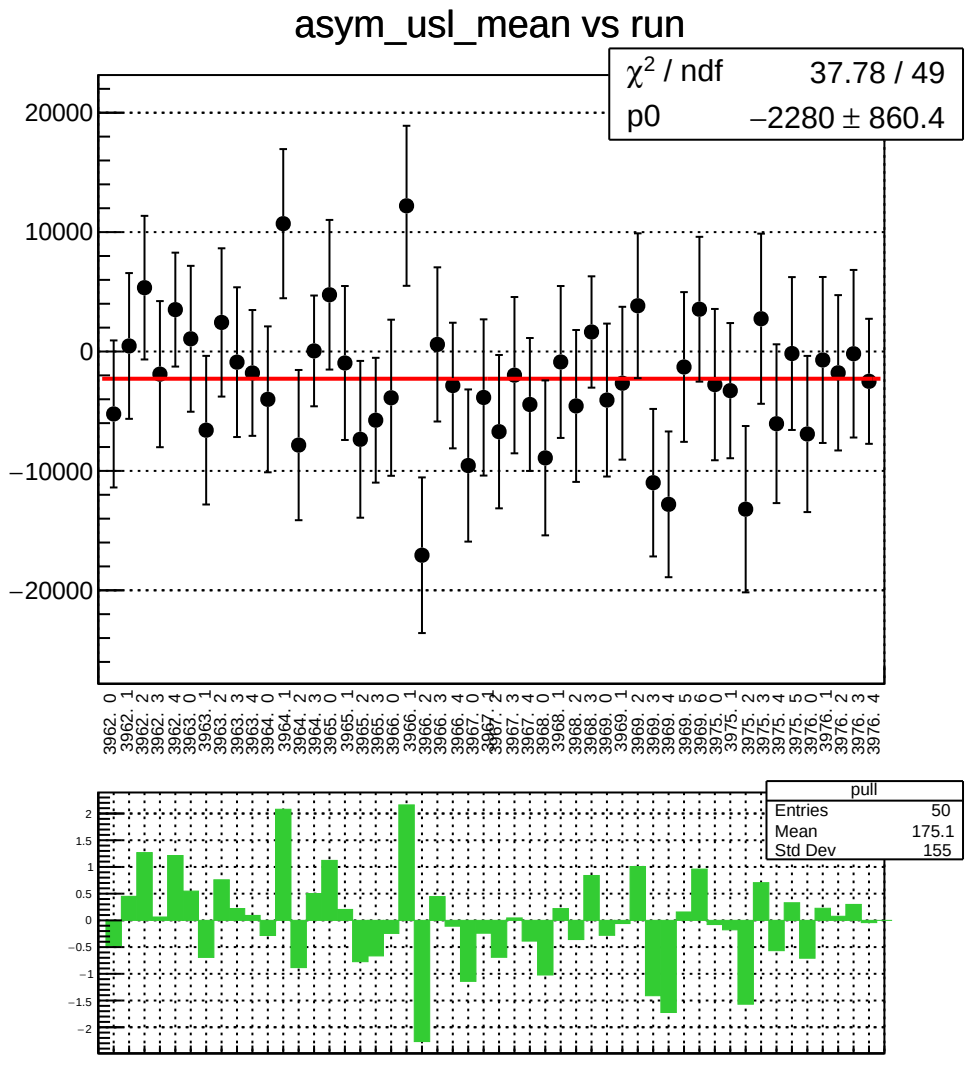
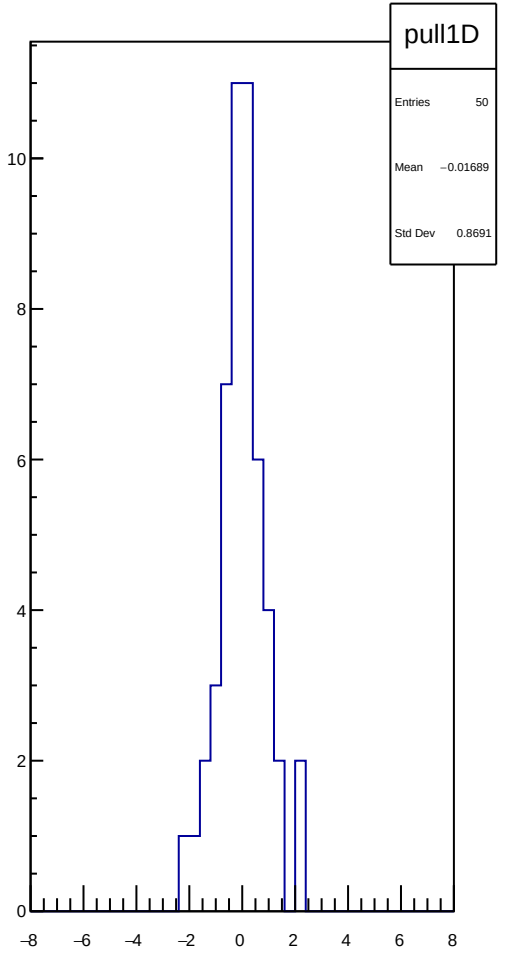
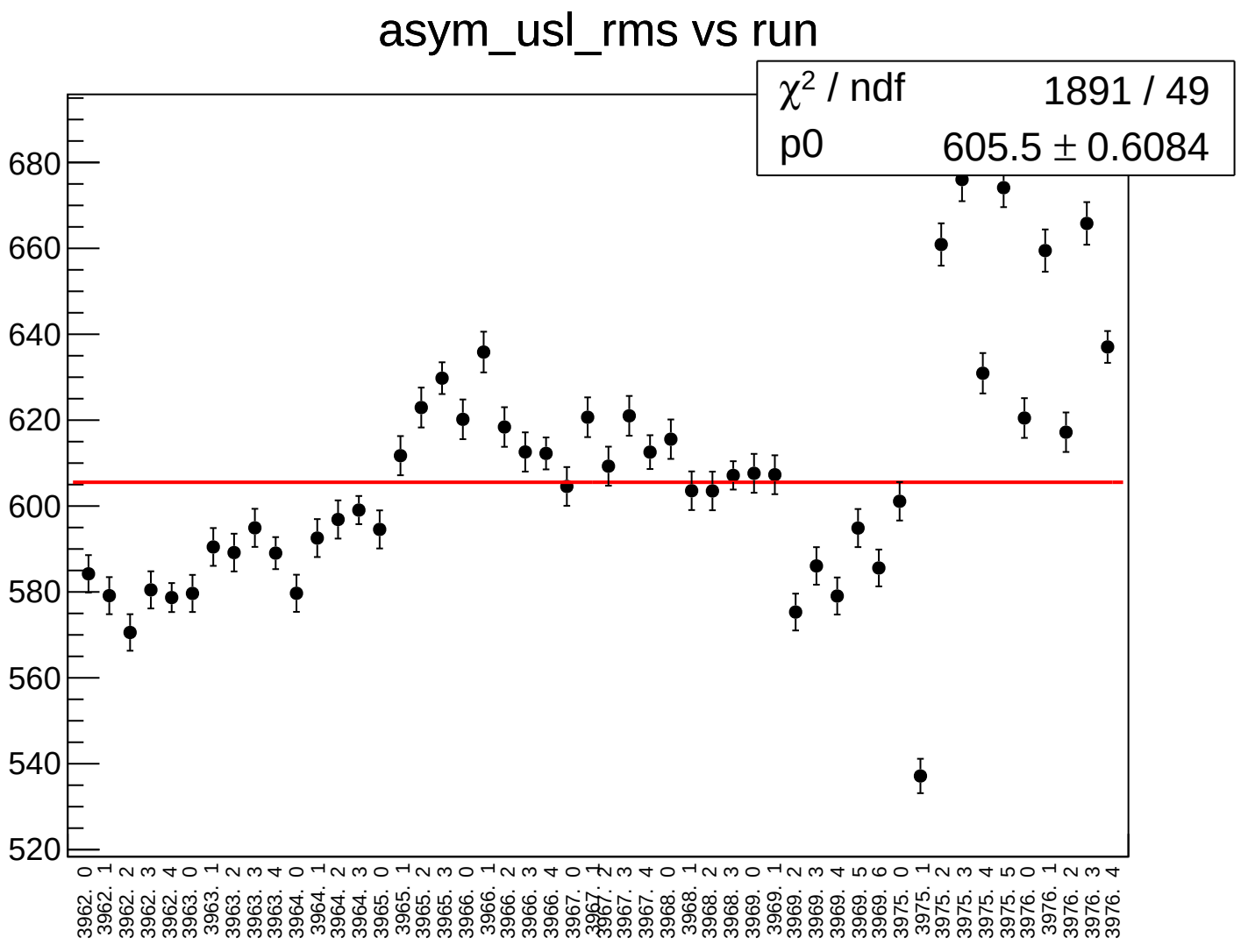
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_usl_mean vs run
χ² / ndf 37.78 / 49
p0 −2280 ± 860.4
20000
10000
0
−10000
−20000
pull
Entries 50
Mean 175.1
Std Dev 155
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.01689
Std Dev 0.8691
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_rms vs run
χ² / ndf 1891 / 49
p0 605.5 ± 0.6084
680
660
640
620
600
580
560
540
520
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
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3966. 2
3966. 3
3966. 4
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3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
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3968. 2
3968. 3
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3969. 1
3969. 2
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3969. 4
3969. 5
3969. 6
3975. 0
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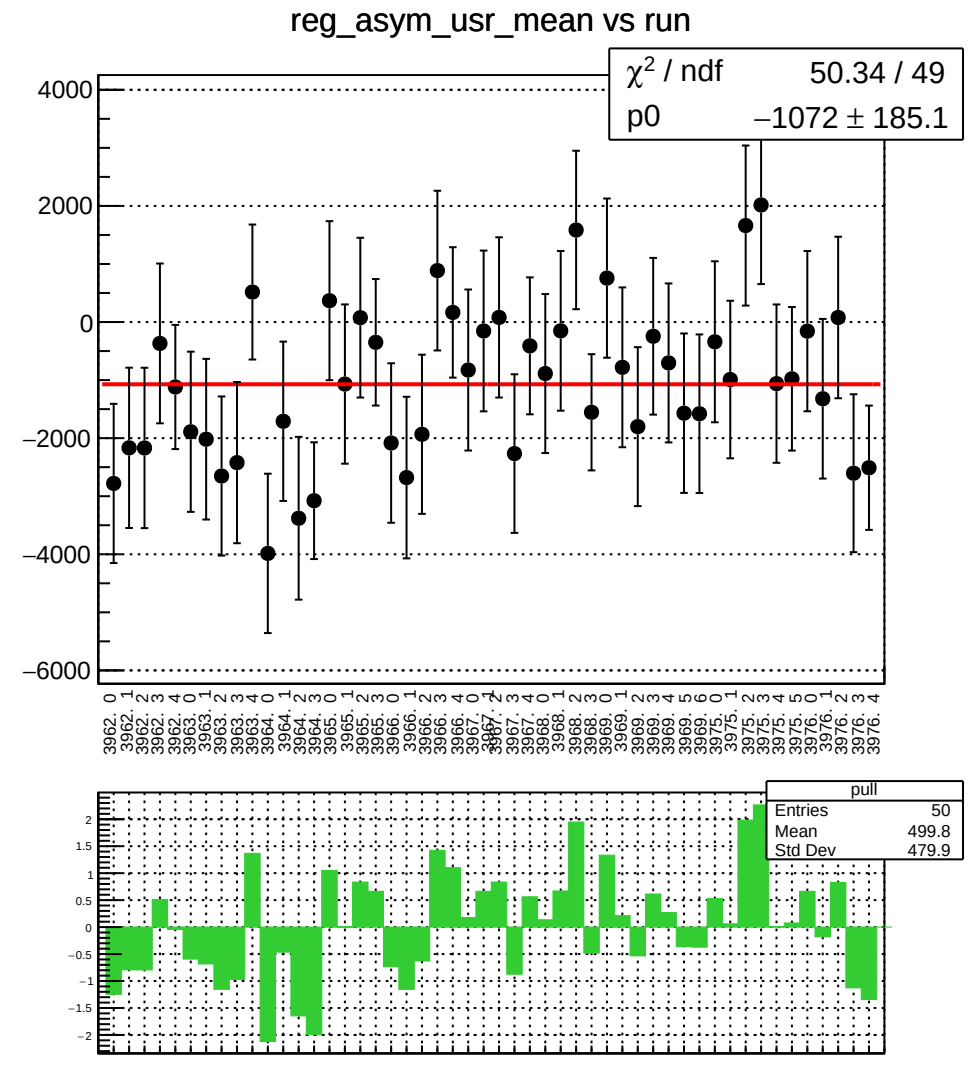
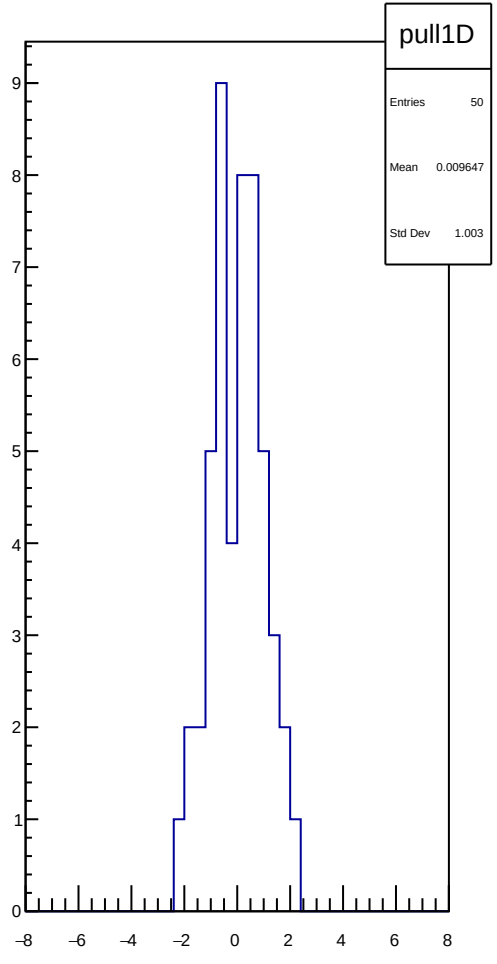
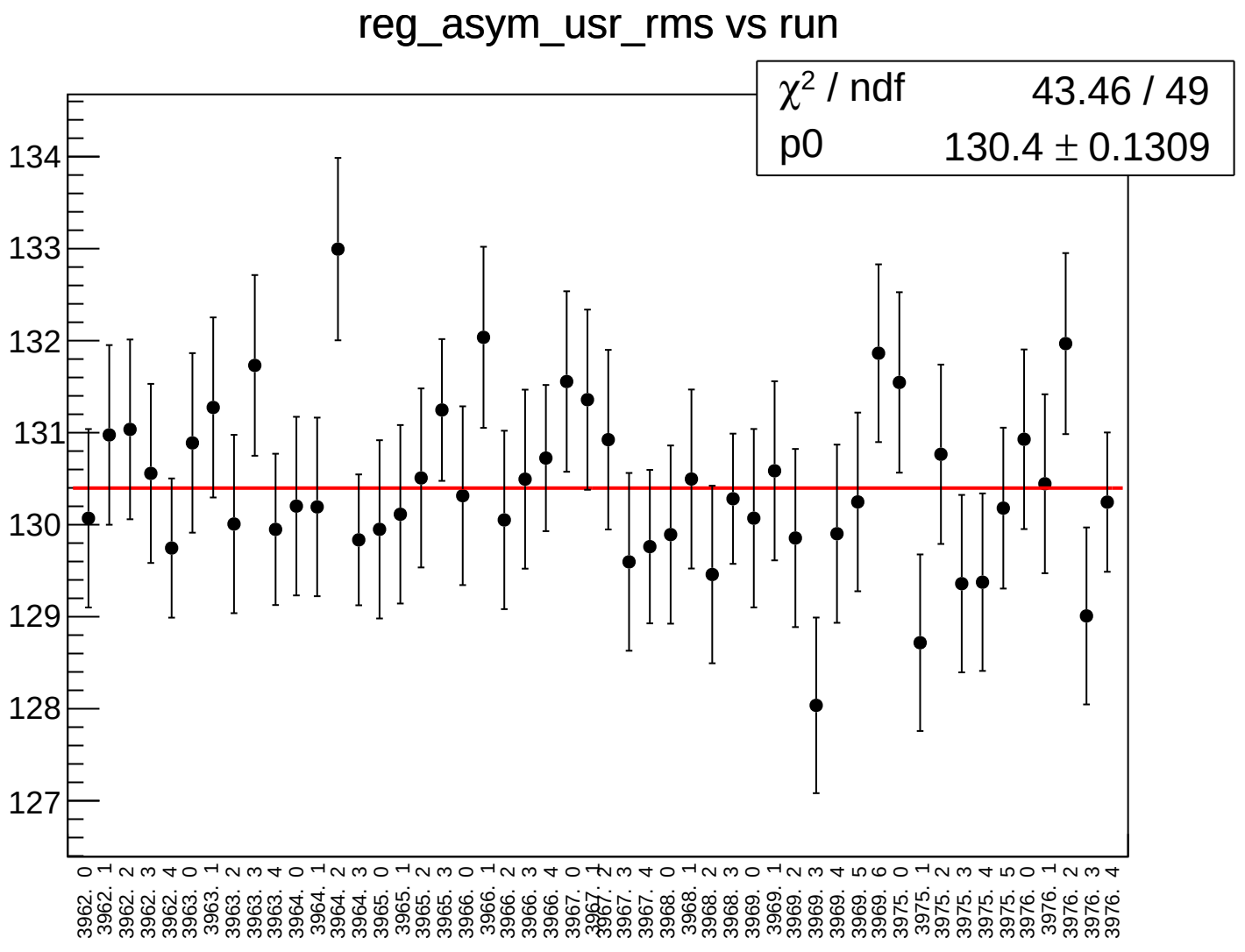
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_usr_mean vs run
χ² / ndf 50.34 / 49
p0 −1072 ± 185.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 50
Mean 499.8
Std Dev 479.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.009647
Std Dev 1.003
9
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 43.46 / 49
p0 130.4 ± 0.1309
134
133
132
131
130
129
128
127
13962. 0
13962. 1
13962. 2
13962. 3
13962. 4
13963. 0
13963. 1
13963. 2
13963. 3
13963. 4
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13965. 0
13965. 1
13965. 2
13965. 3
13966. 0
13966. 1
13966. 2
13966. 3
13966. 4
13967. 0
13967. 1
13967. 2
13967. 3
13967. 4
13968. 0
13968. 1
13968. 2
13968. 3
13969. 0
13969. 1
13969. 2
13969. 3
13969. 4
13969. 5
13969. 6
13975. 0
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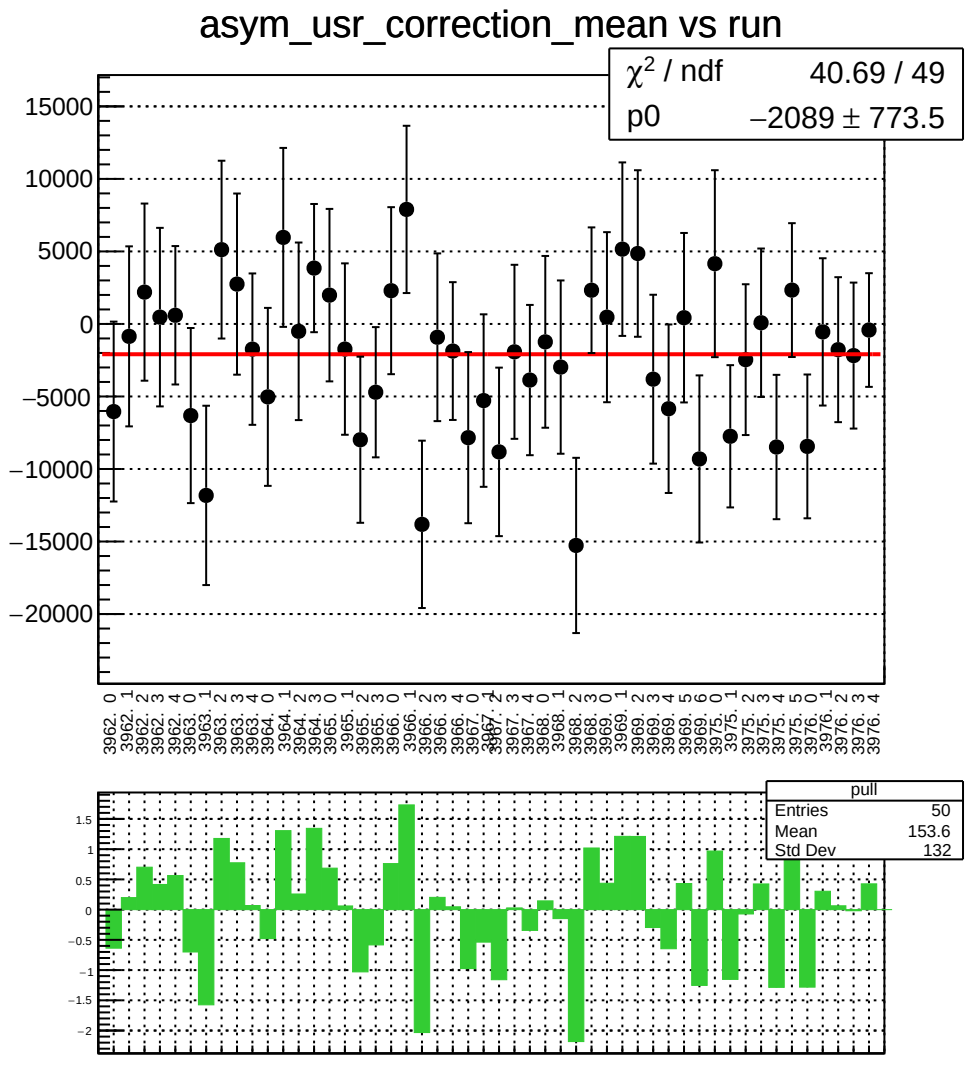
13975. 2
13975. 3
13975. 4
13975. 5
13976. 0
13976. 1
13976. 2
13976. 3
13976. 4


asym_usr_correction_mean vs run
χ² / ndf 40.69 / 49
p0 −2089 ± 773.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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3964. 3
3964. 4
3965. 0
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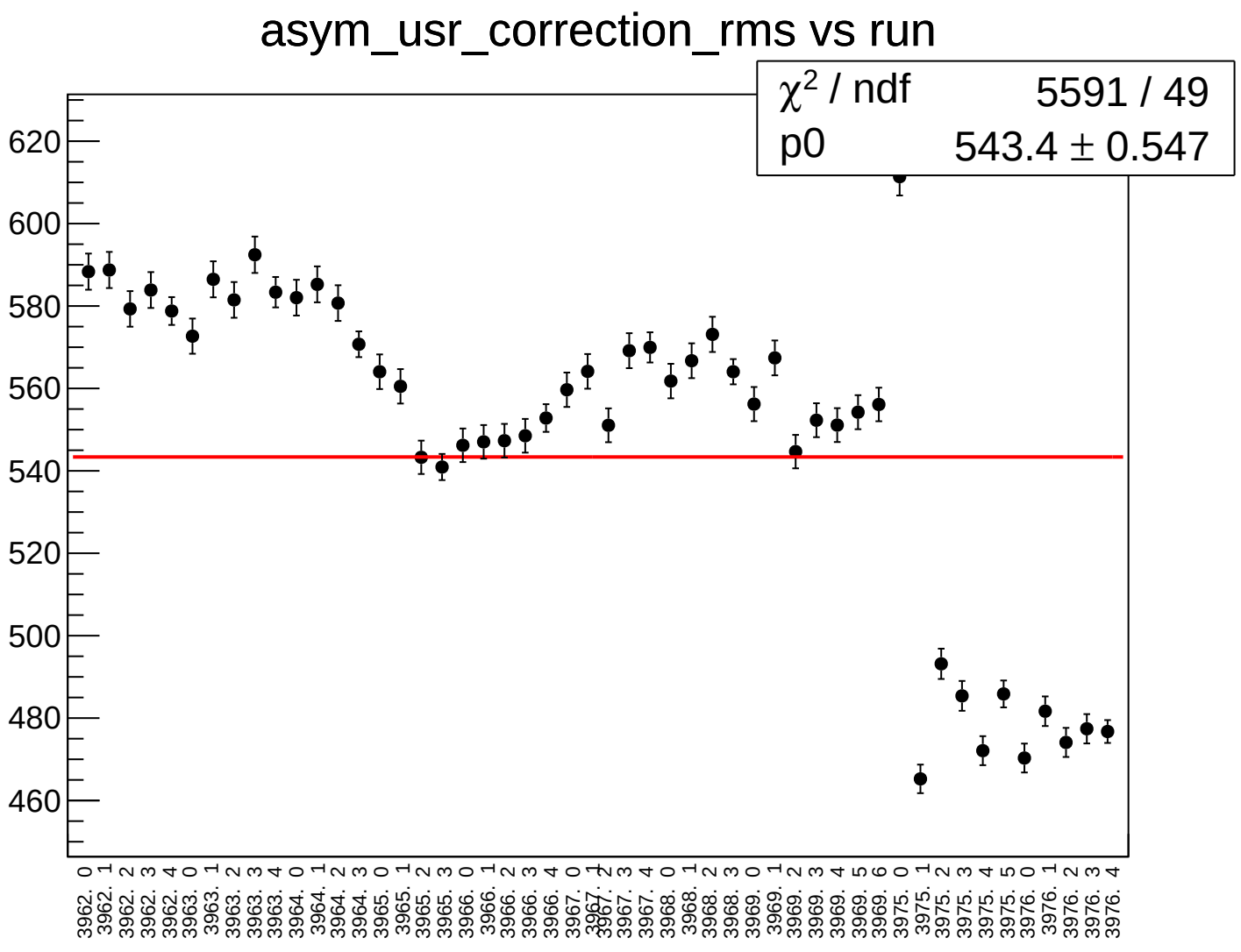
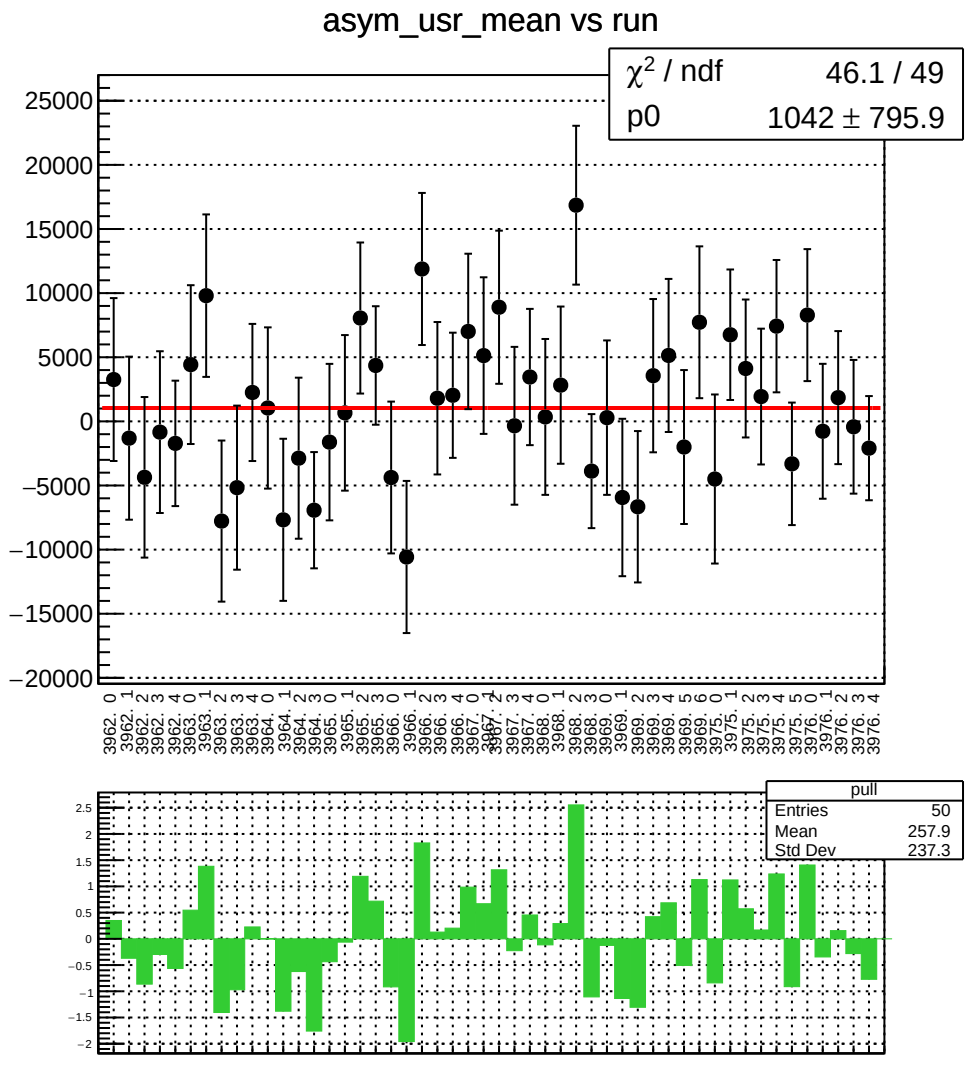
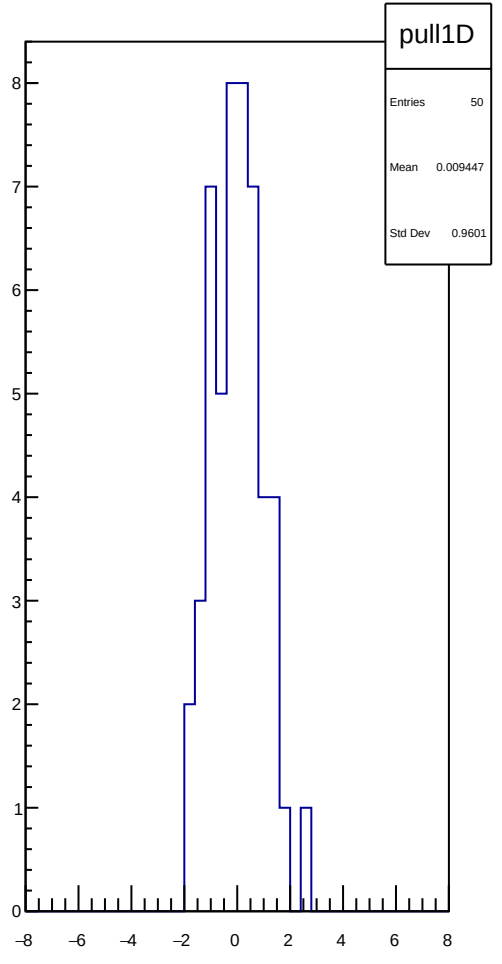
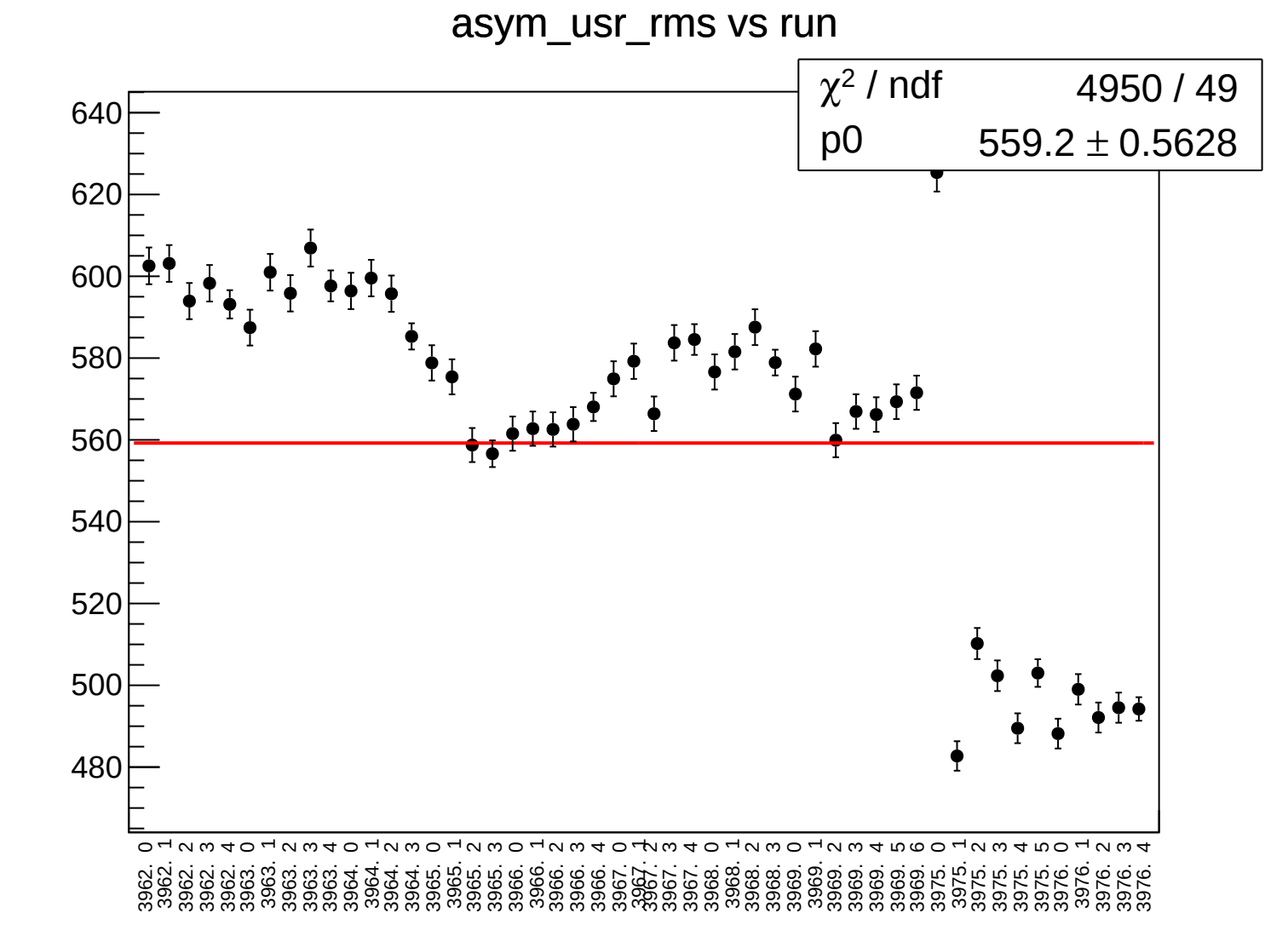
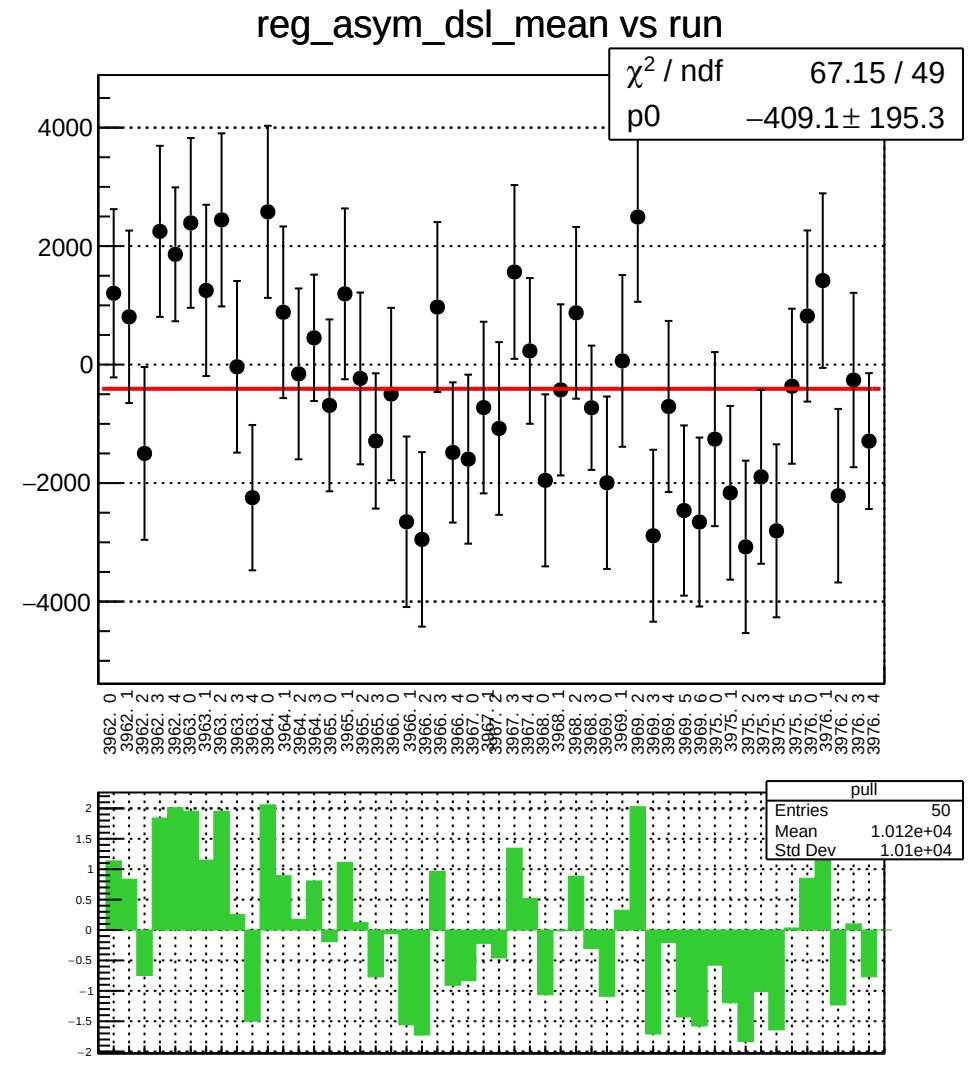
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 153.6
Std Dev 132
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.009385
Std Dev 0.902
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

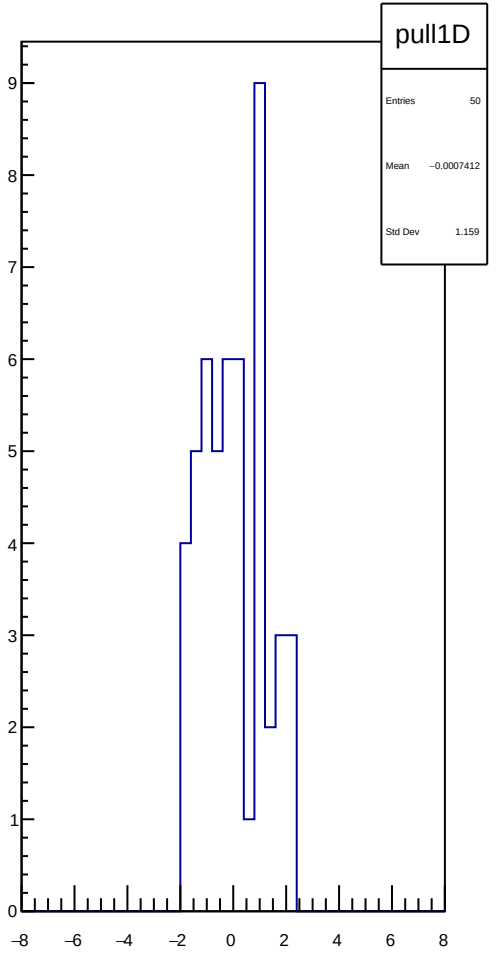

asym_usr_correction_rms vs run
χ² / ndf 5591 / 49
p0 543.4 ± 0.547
620
600
580
560
540
520
500
480
460
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

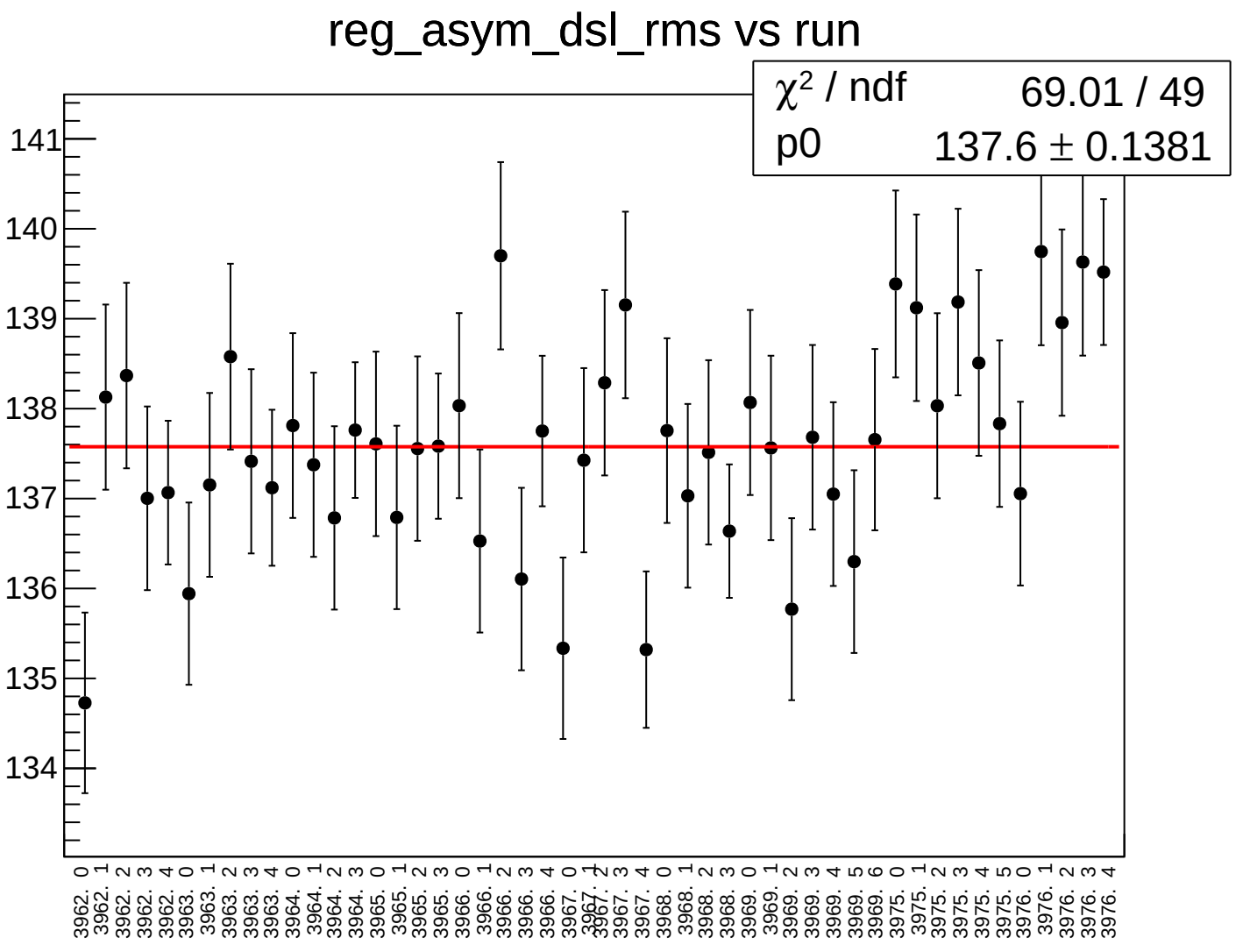

asym_usr_mean vs run
χ² / ndf 46.1 / 49
p0 1042 ± 795.9
pull
Entries 50
Mean 257.9
Std Dev 237.3

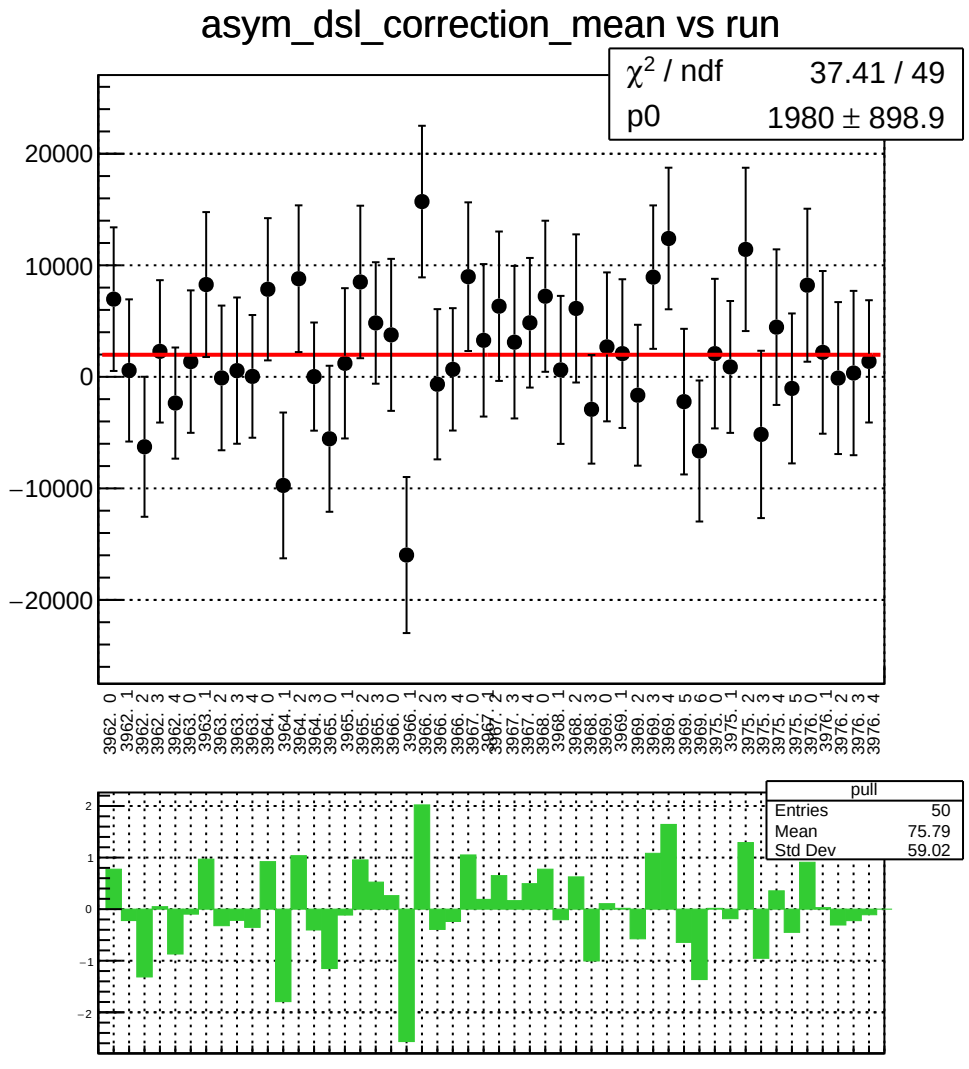

pull1D
Entries 50
Mean 0.009447
Std Dev 0.9601

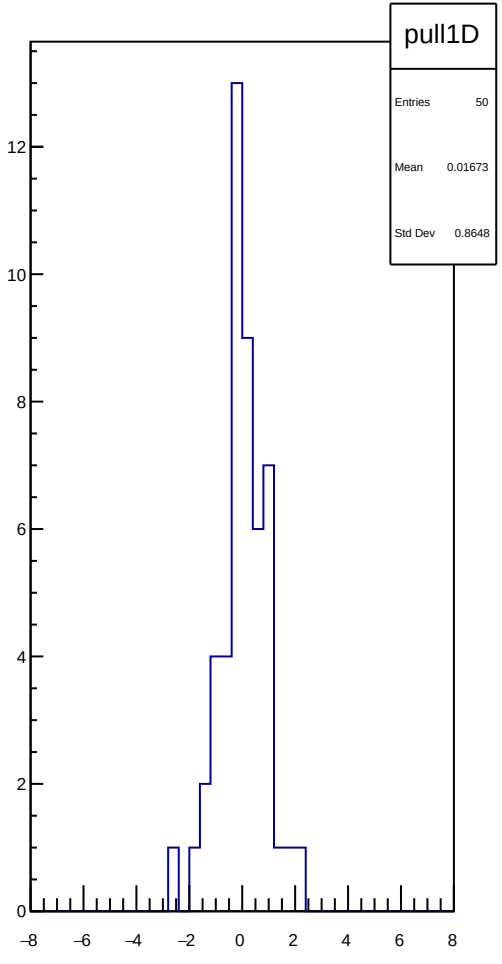

asym_usr_rms vs run
χ² / ndf 4950 / 49
p0 559.2 ± 0.5628
640
620
600
580
560
540
520
500
480
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

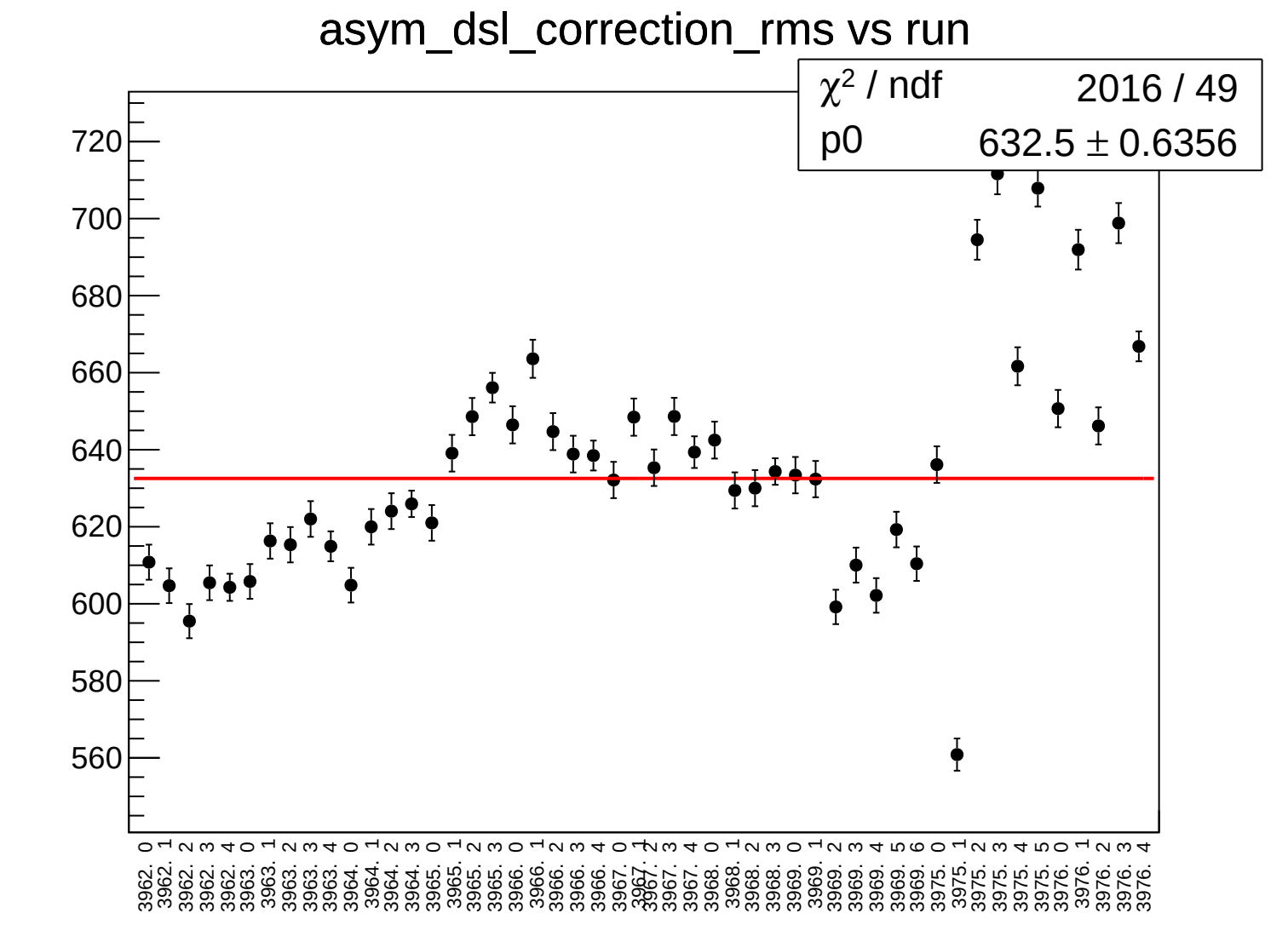

reg_asym_dsl_mean vs run
χ² / ndf 67.15 / 49
p0 −409.1± 195.3
4000
2000
0
−2000
−4000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 1.012e+04
Std Dev 1.01e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

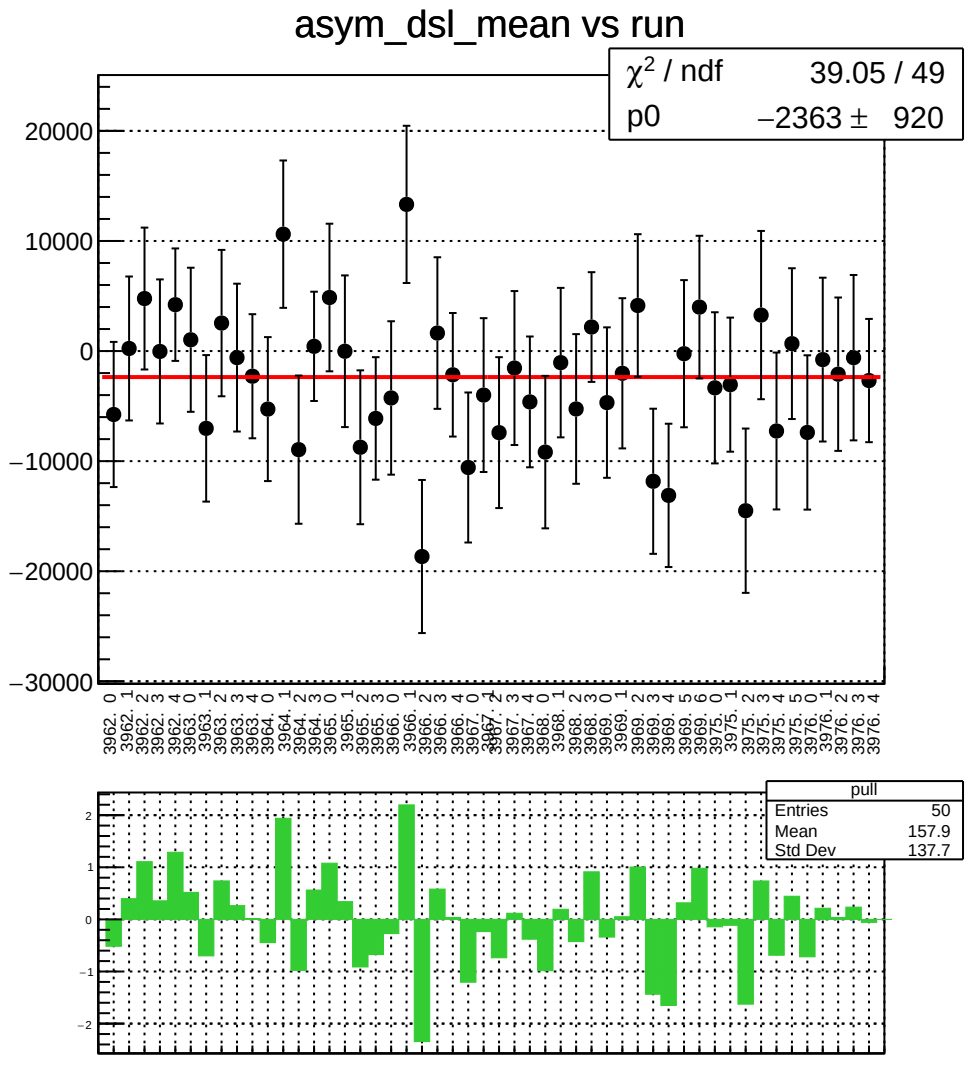

pull1D
Entries 50
Mean −0.0007412
Std Dev 1.159
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

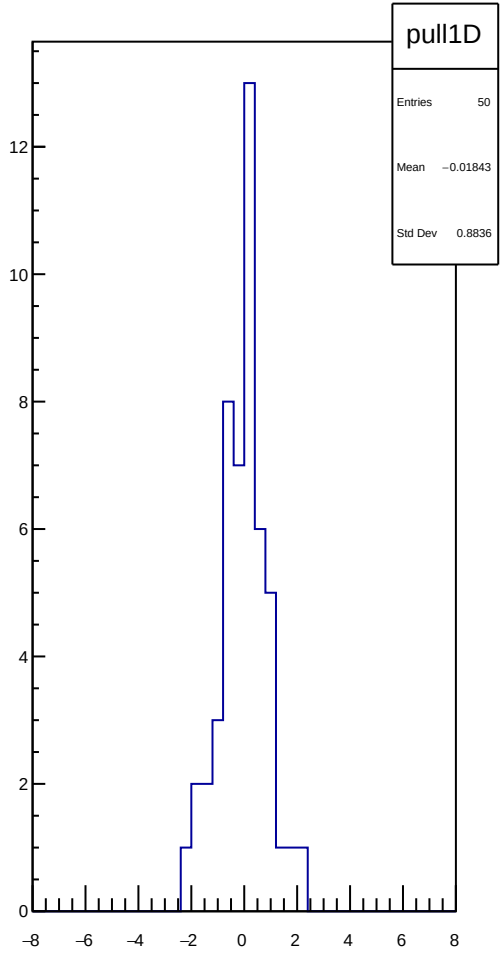

reg_asym_dsl_rms vs run
χ² / ndf 69.01 / 49
p0 137.6 ± 0.1381
141
140
139
138
137
136
135
134
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

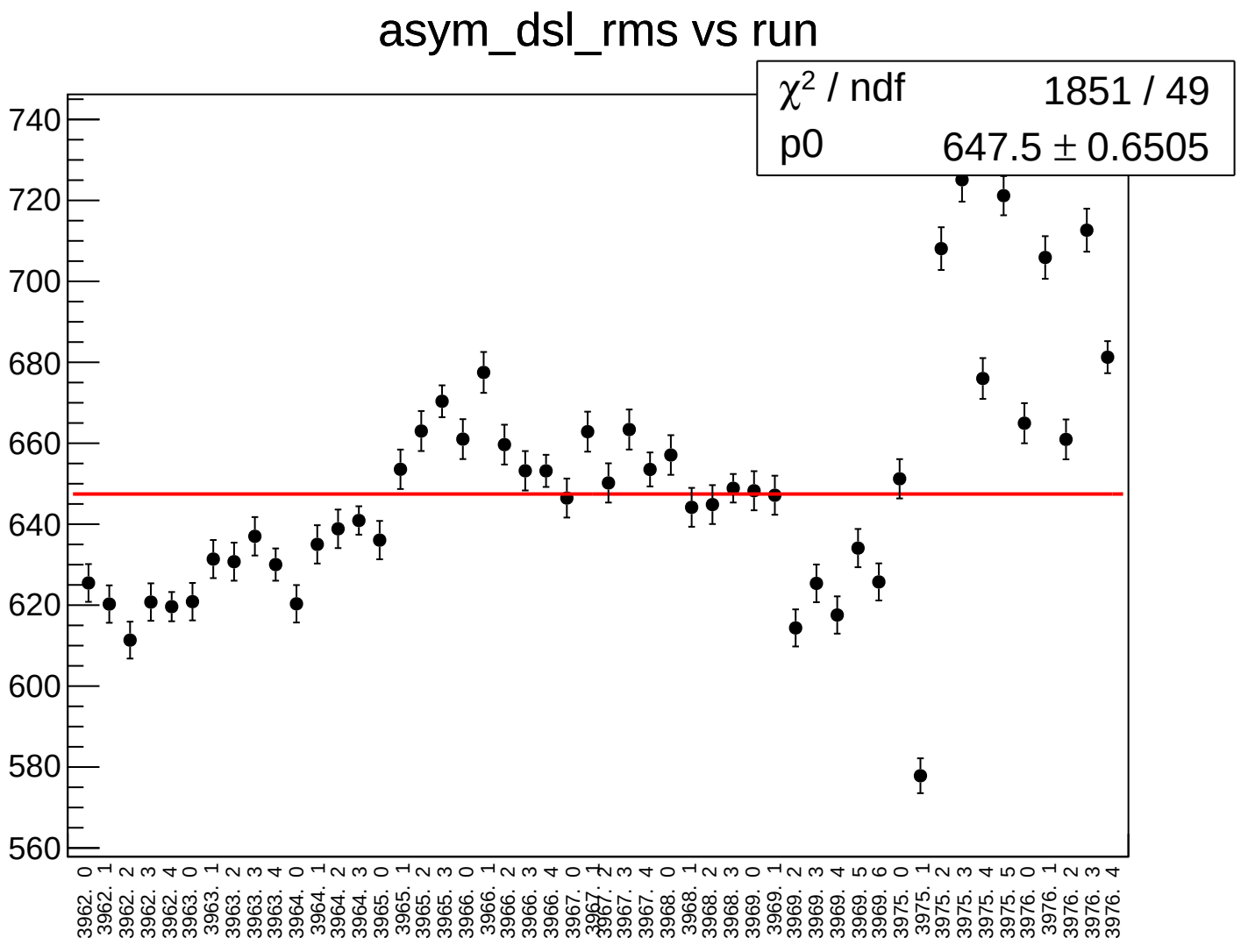

asym_dsl_correction_mean vs run
χ² / ndf 37.41 / 49
p0 1980 ± 898.9
20000
10000
0
−10000
−20000
pull
Entries 50
Mean 75.79
Std Dev 59.02
2
1
0
−1
−2

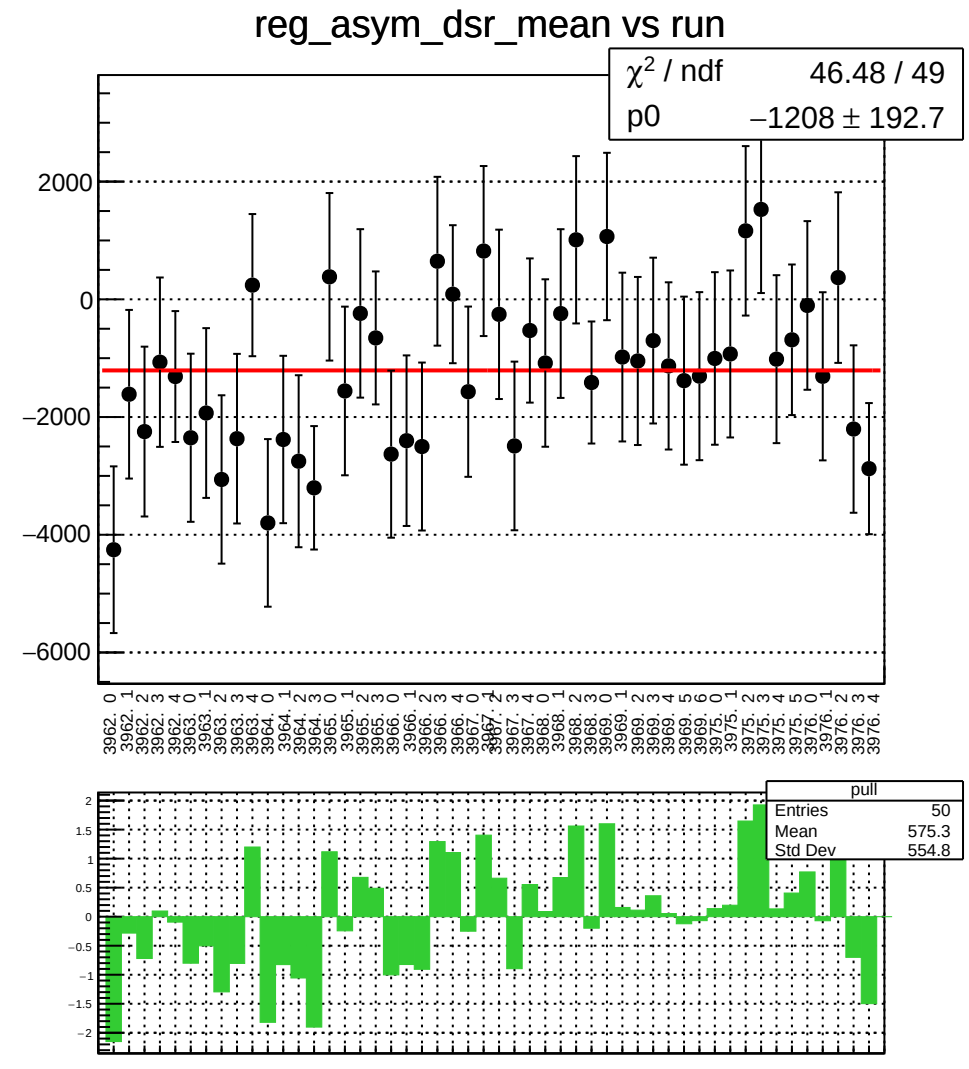

pull1D
Entries 50
Mean 0.01673
Std Dev 0.8648
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

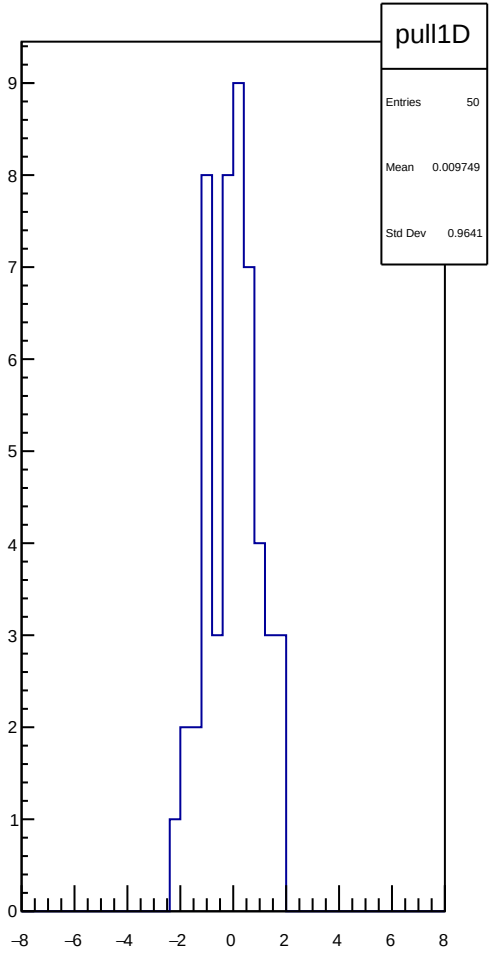

asym_dsl_correction_rms vs run
χ² / ndf 2016 / 49
p0 632.5 ± 0.6356
720
700
680
660
640
620
600
580
560
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

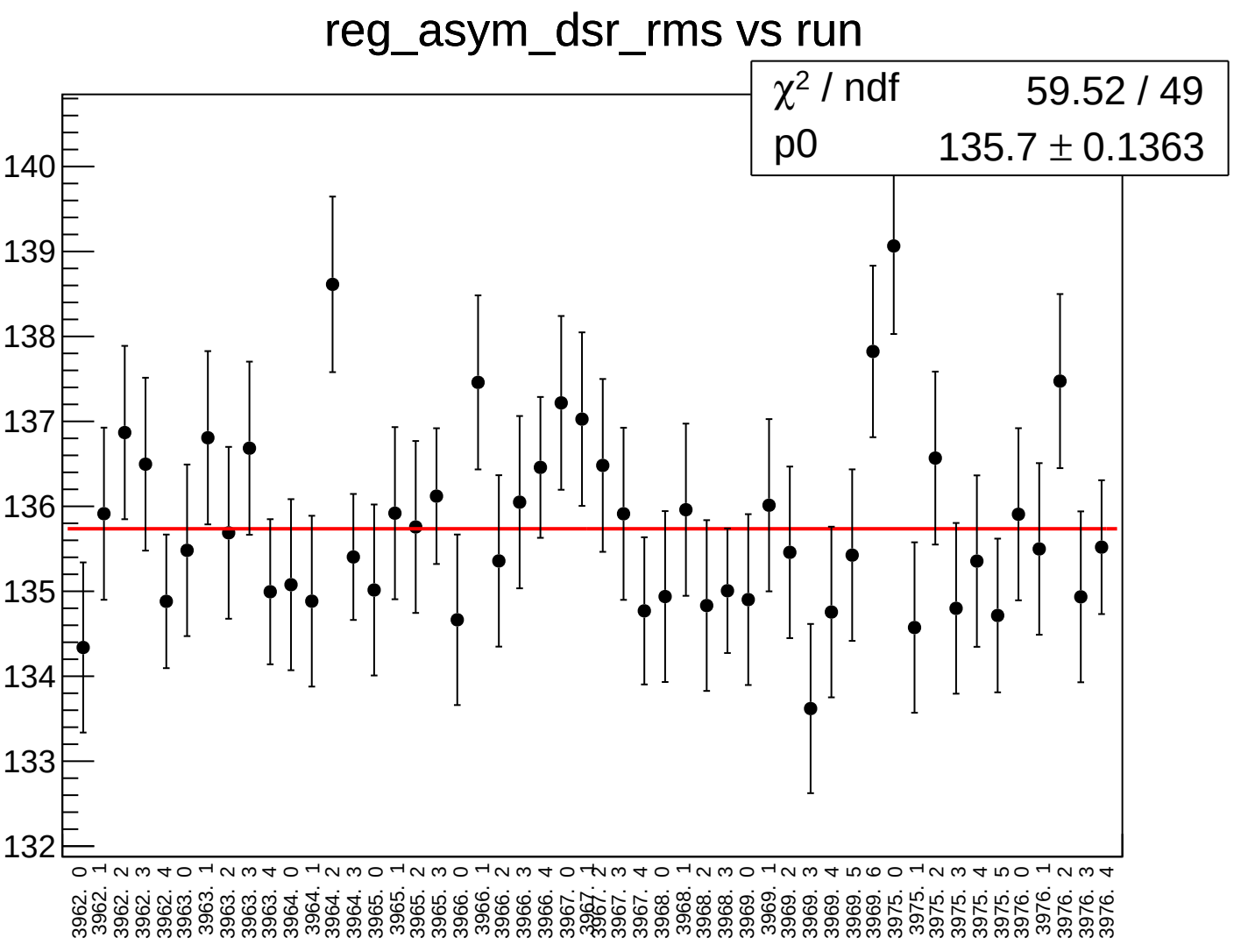

asym_dsl_mean vs run
χ² / ndf 39.05 / 49
p0 −2363 ± 920
20000
10000
0
−10000
−20000
−30000
pull
Entries 50
Mean 157.9
Std Dev 137.7
2
1
0
−1
−2

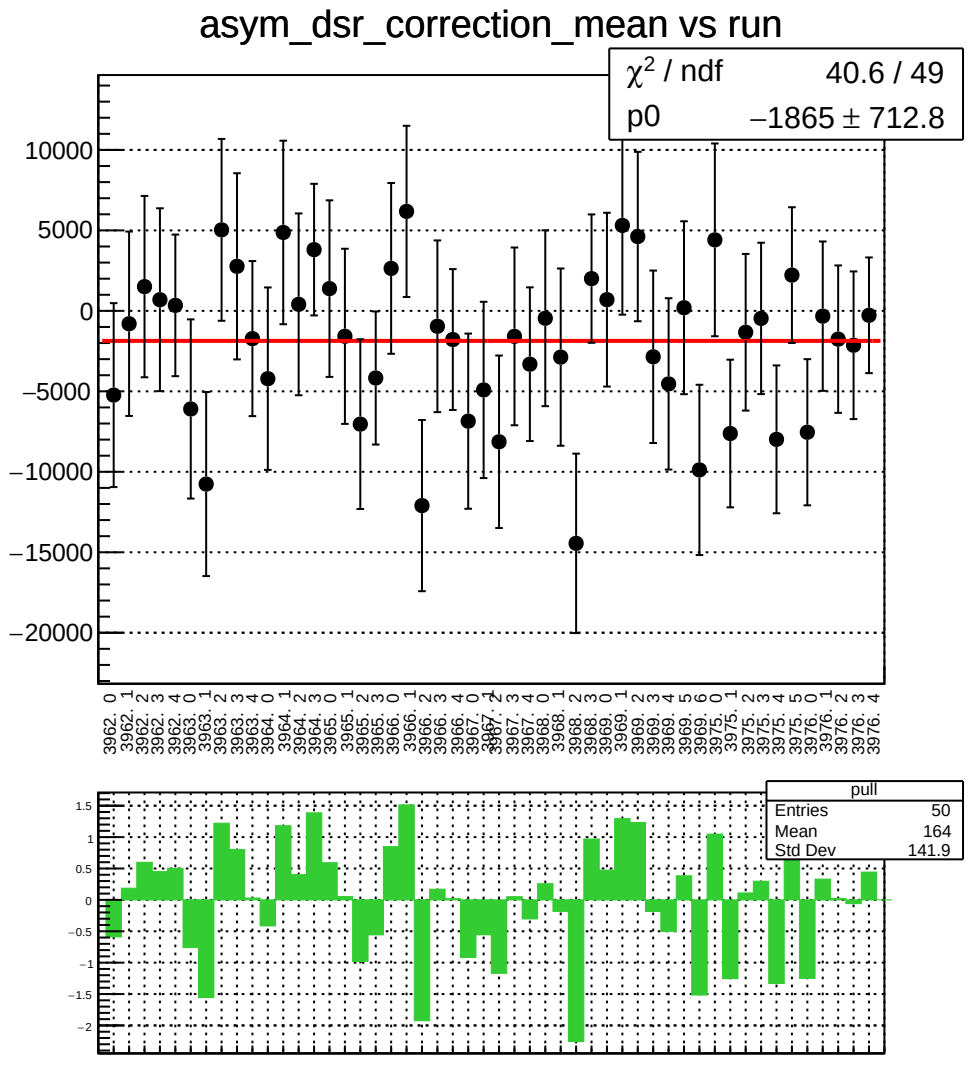

pull1D
Entries 50
Mean −0.01843
Std Dev 0.8836
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

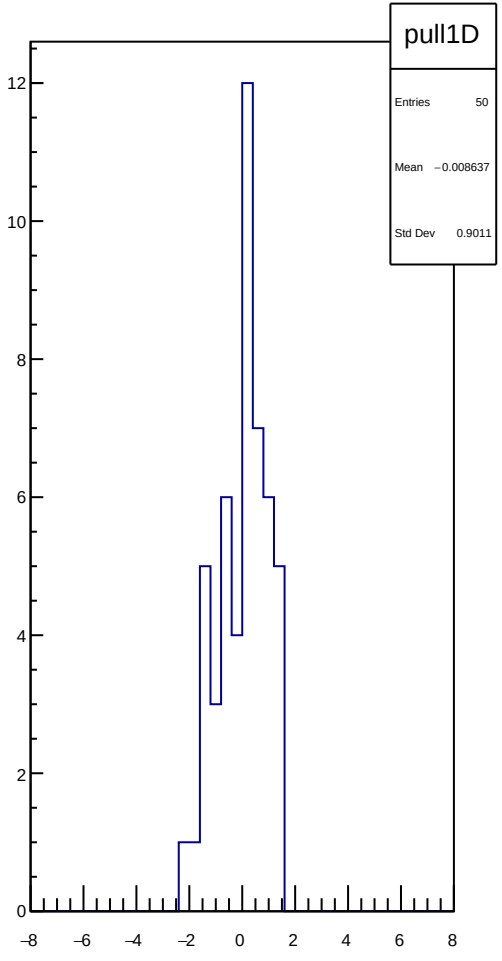

asym_dsl_rms vs run
χ² / ndf 1851 / 49
p0 647.5 ± 0.6505
740
720
700
680
660
640
620
600
580
560
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

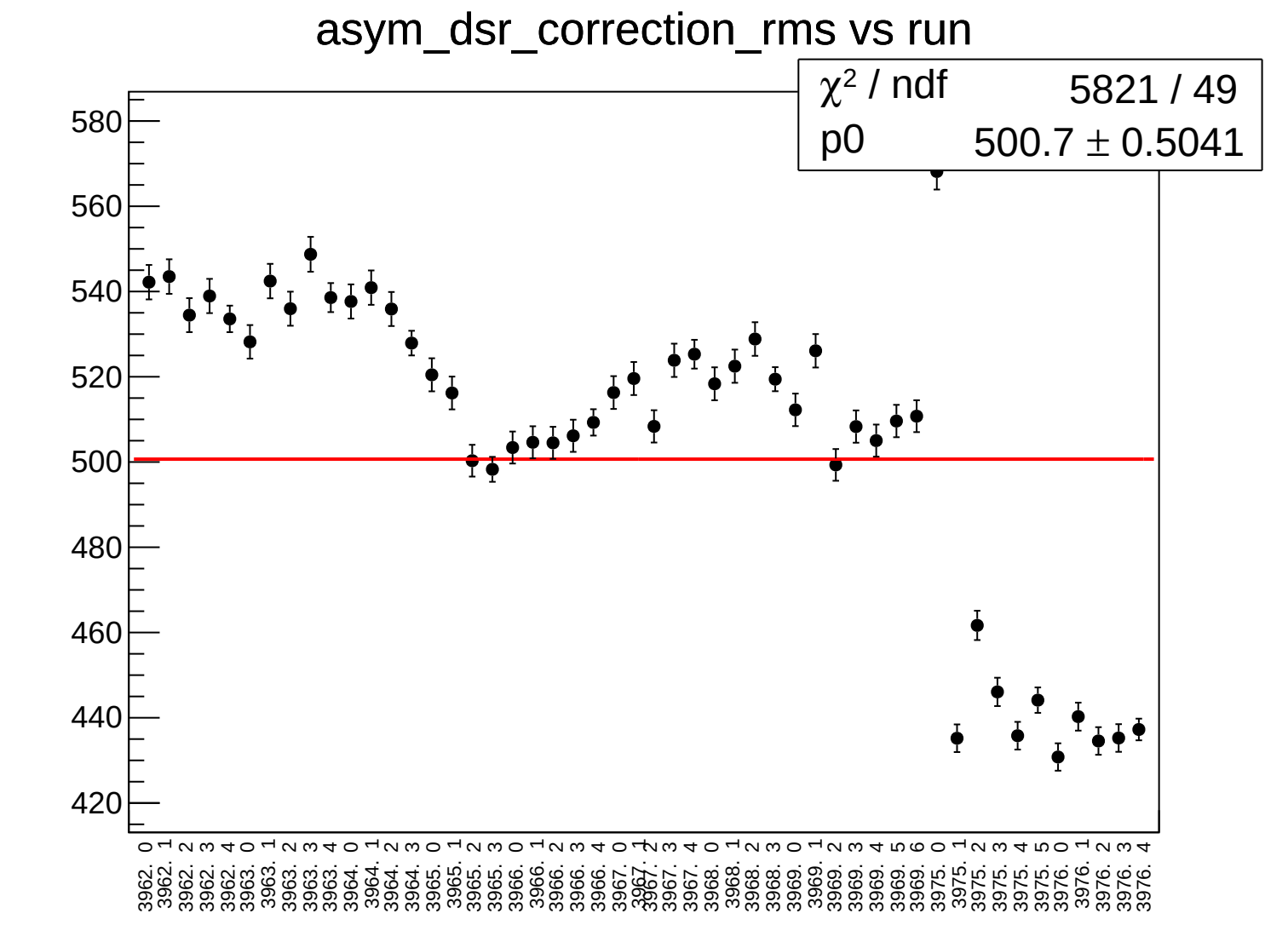

reg_asym_dsr_mean vs run
χ² / ndf 46.48 / 49
p0 −1208 ± 192.7
2000
0
−2000
−4000
−6000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 575.3
Std Dev 554.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

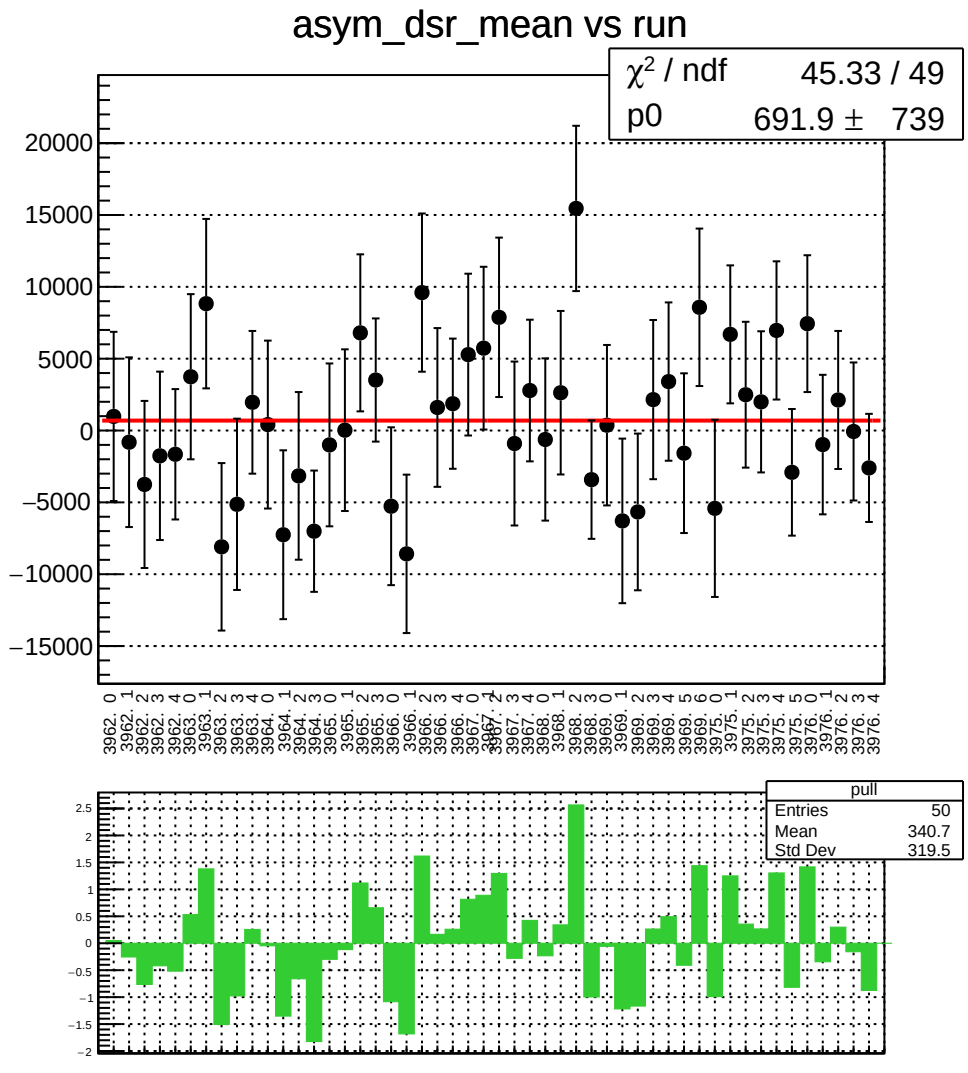

pull1D
Entries 50
Mean 0.009749
Std Dev 0.9641
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

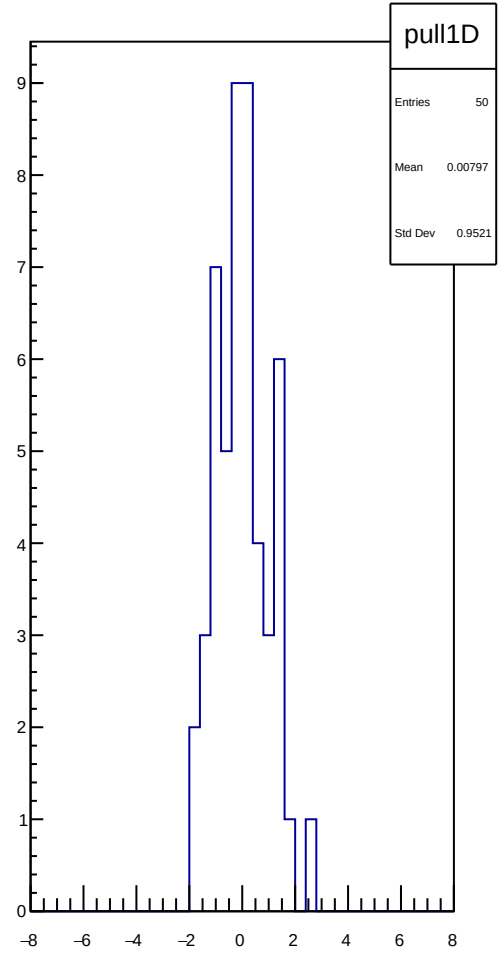

reg_asym_dsr_rms vs run
χ² / ndf 59.52 / 49
p0 135.7 ± 0.1363
140
139
138
137
136
135
134
133
132
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

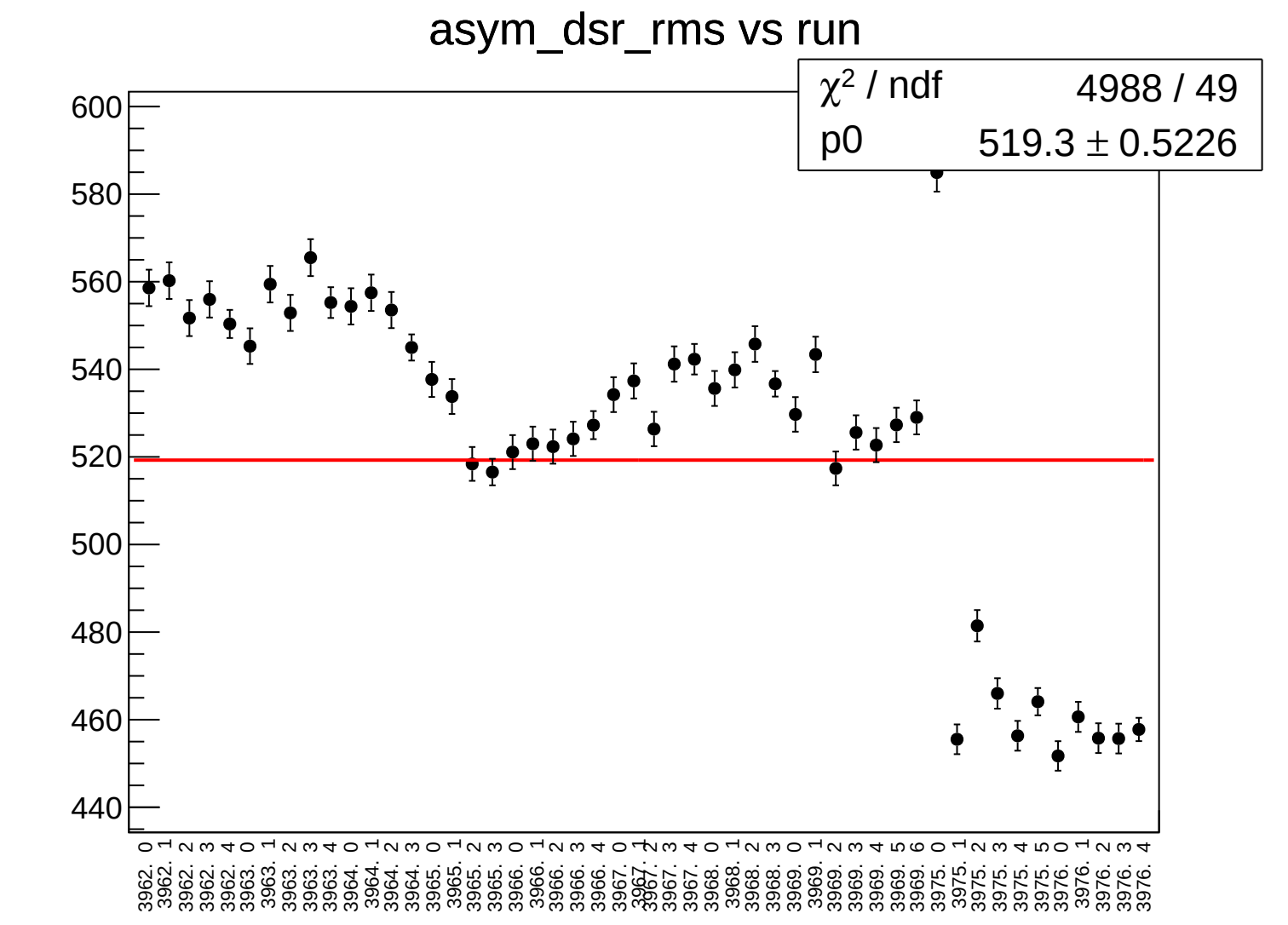

asym_dsr_correction_mean vs run
χ² / ndf 40.6 / 49
p0 −1865 ± 712.8
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 50
Mean 164
Std Dev 141.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.008637
Std Dev 0.9011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_correction_rms vs run
χ² / ndf 5821 / 49
p0 500.7 ± 0.5041
580
560
540
520
500
480
460
440
420
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_dsr_mean vs run
χ² / ndf 45.33 / 49
p0 691.9 ± 739
pull
Entries 50
Mean 340.7
Std Dev 319.5


pull1D
Entries 50
Mean 0.00797
Std Dev 0.9521


asym_dsr_rms vs run
χ² / ndf 4988 / 49
p0 519.3 ± 0.5226
600
580
560
540
520
500
480
460
440
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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3964. 3
3965. 0
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3965. 2
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3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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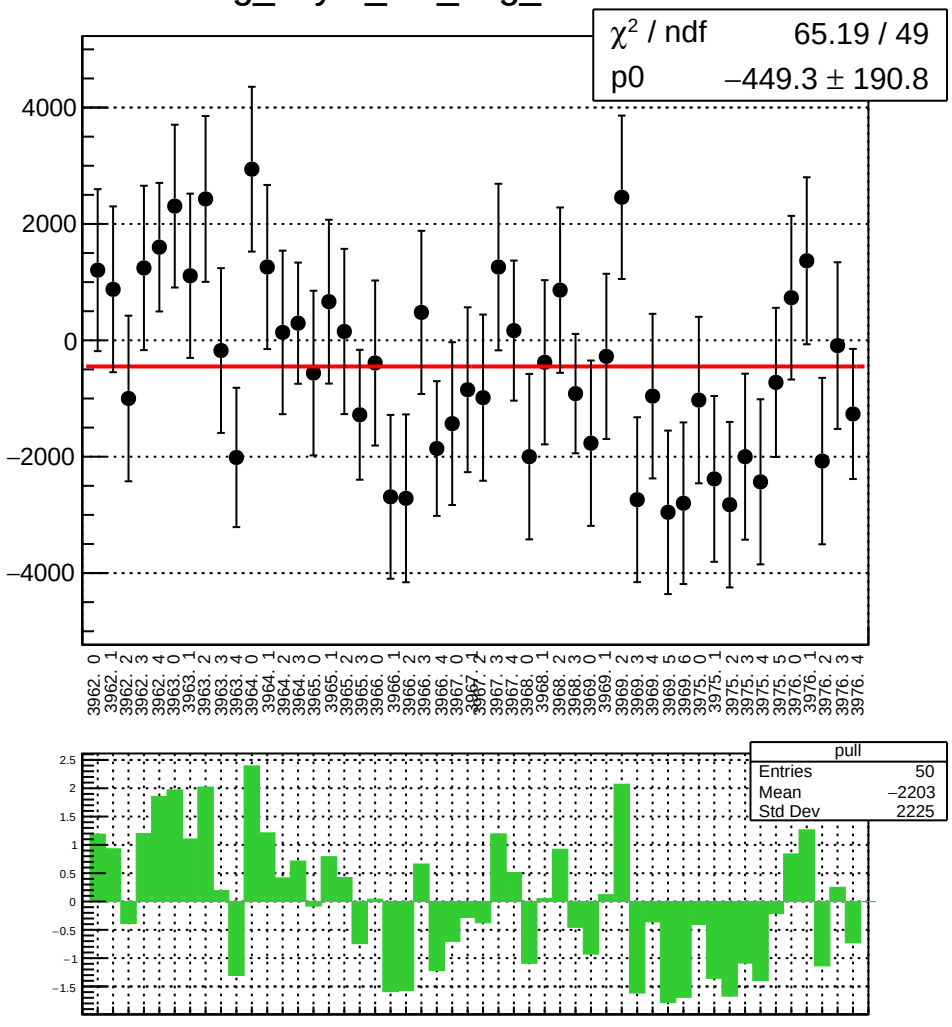
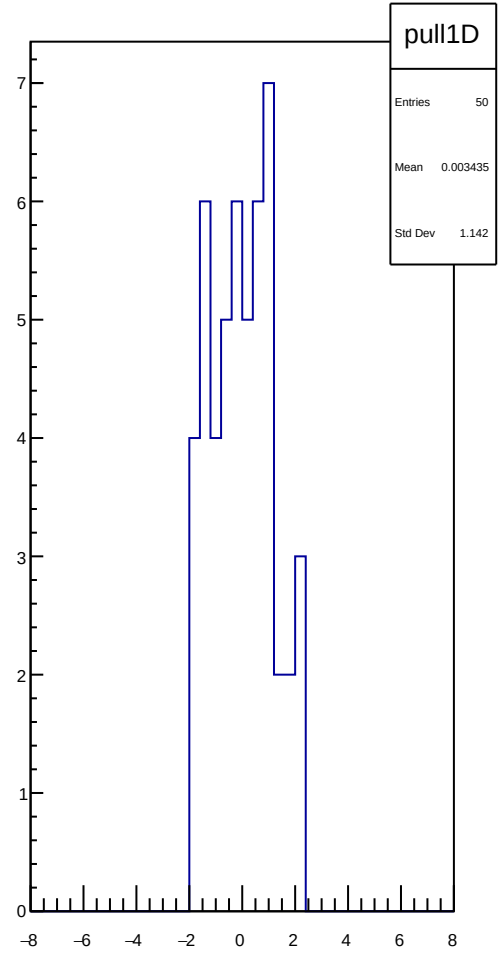
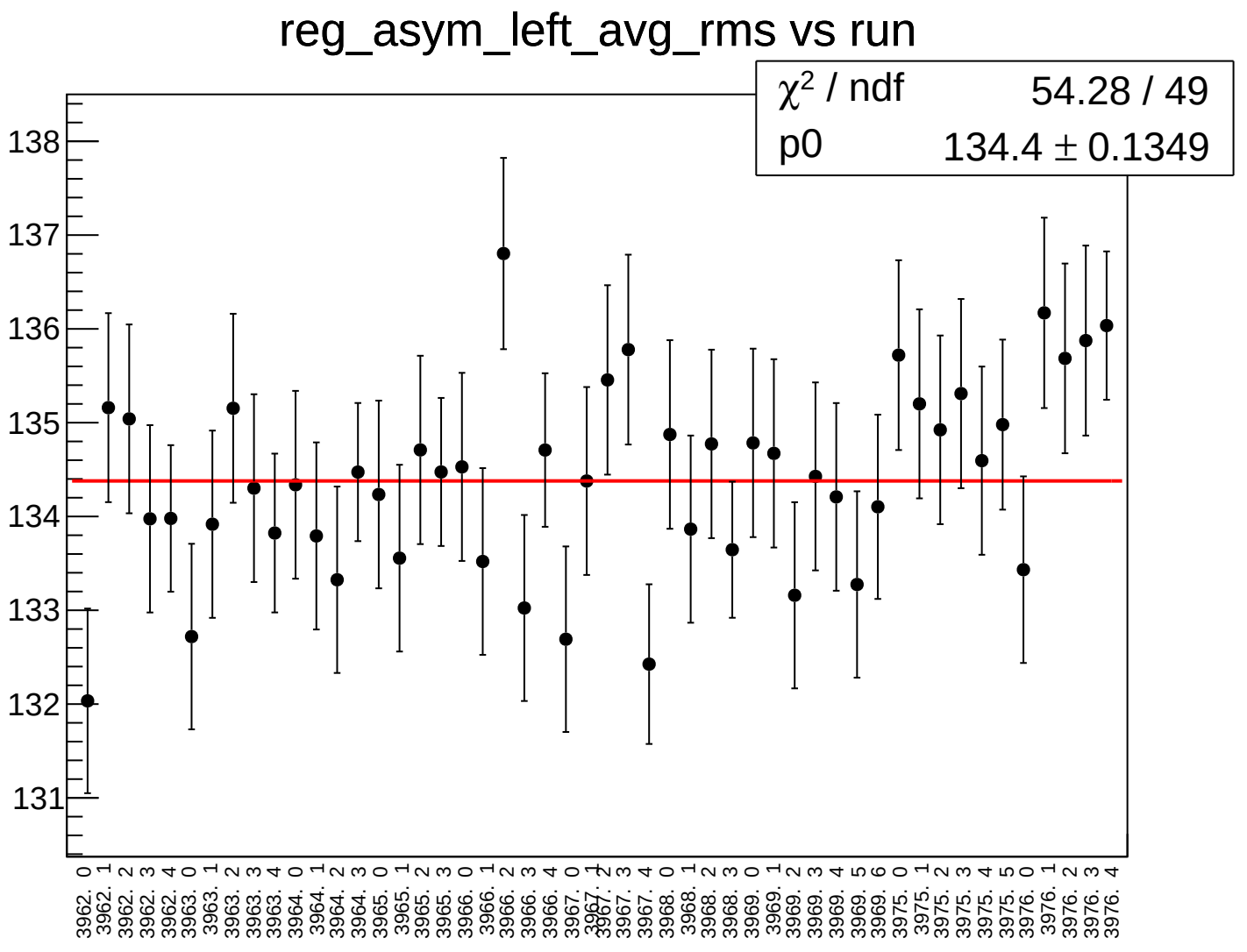
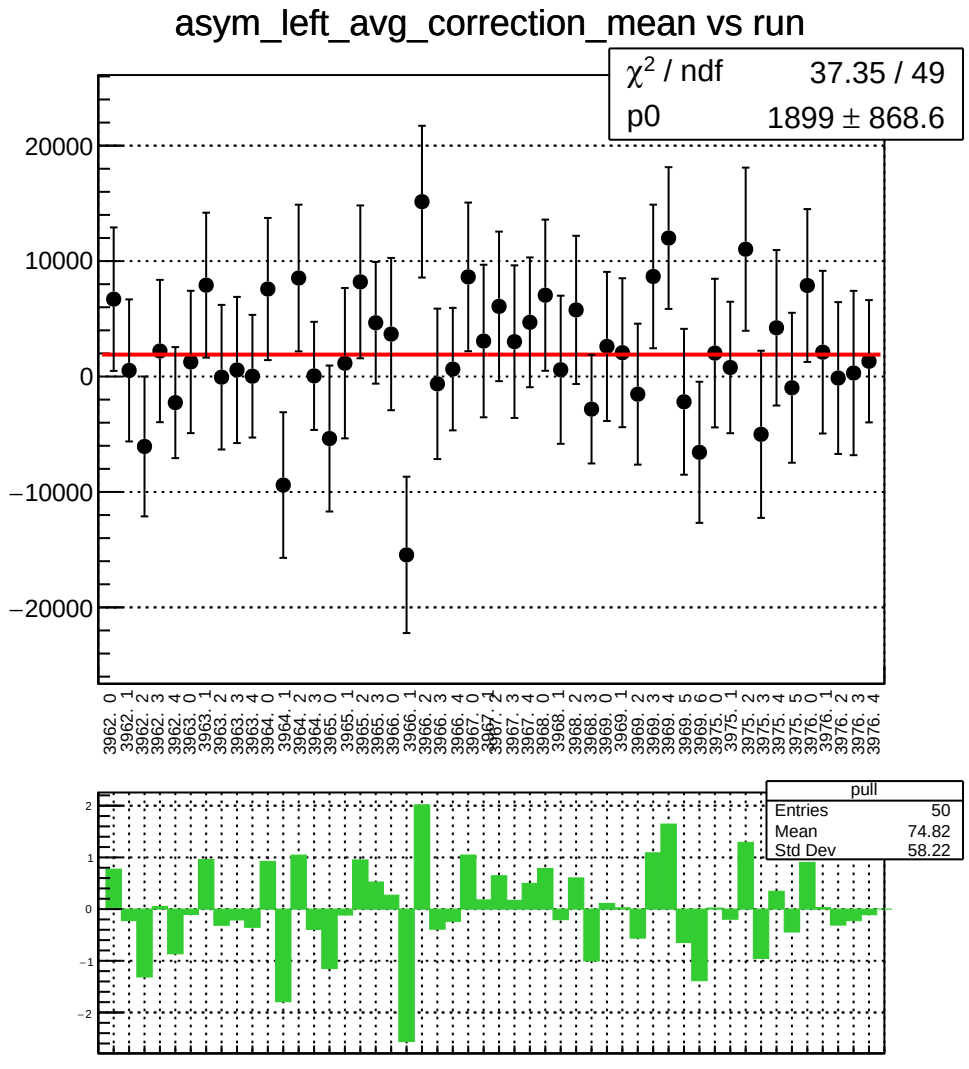
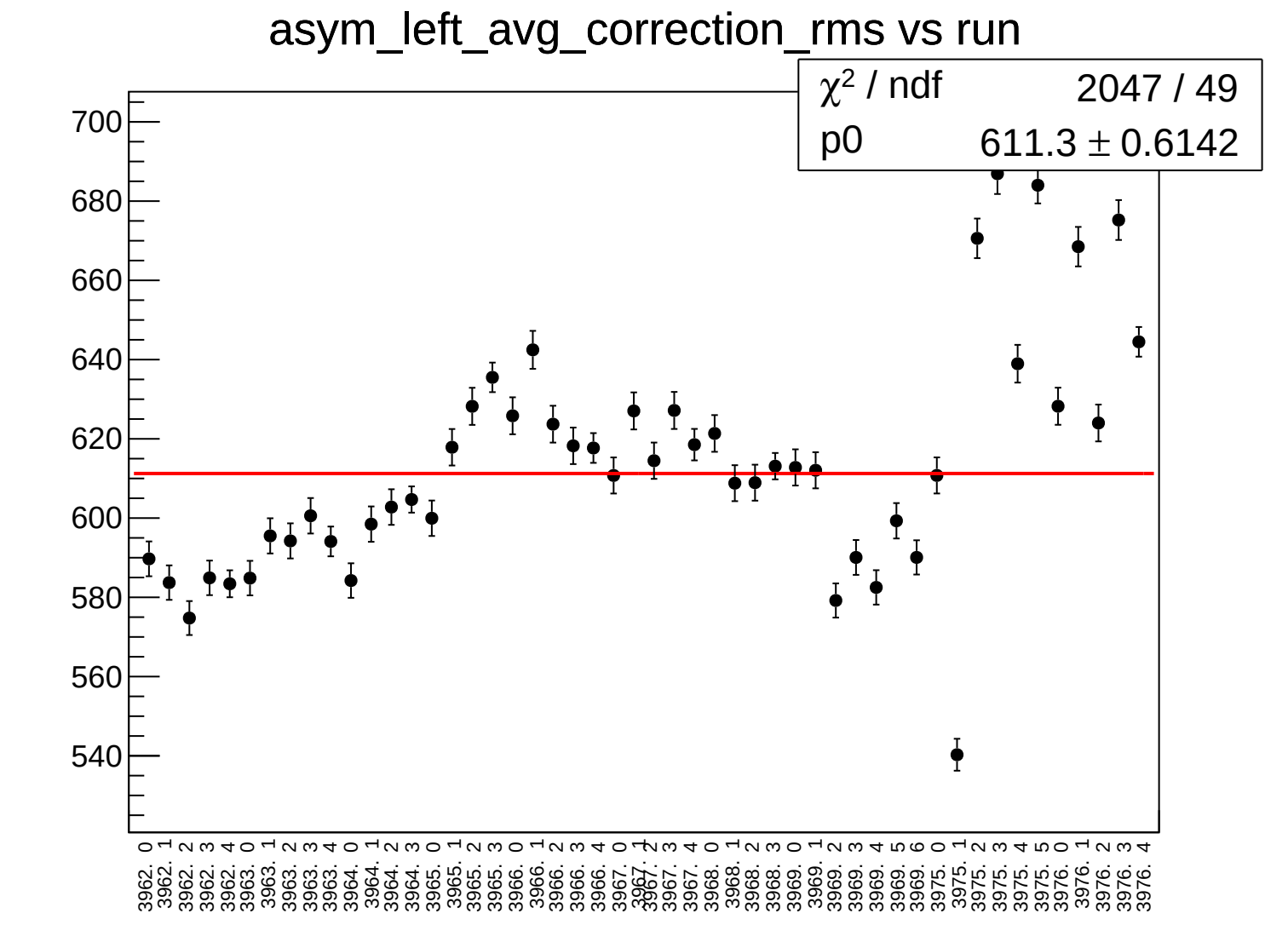
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

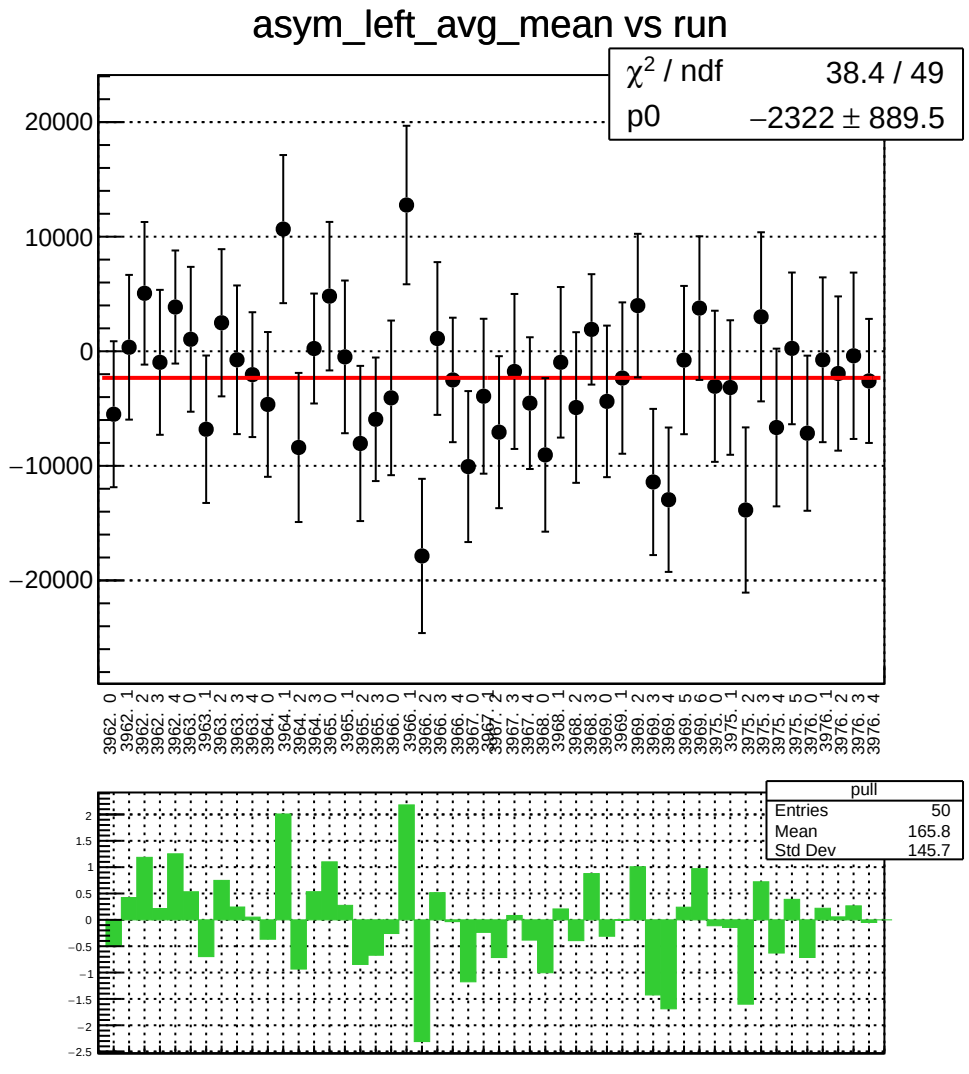

reg_asym_left_avg_mean vs run
χ² / ndf 65.19 / 49
p0 −449.3 ± 190.8
4000
2000
0
−2000
−4000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −2203
Std Dev 2225
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

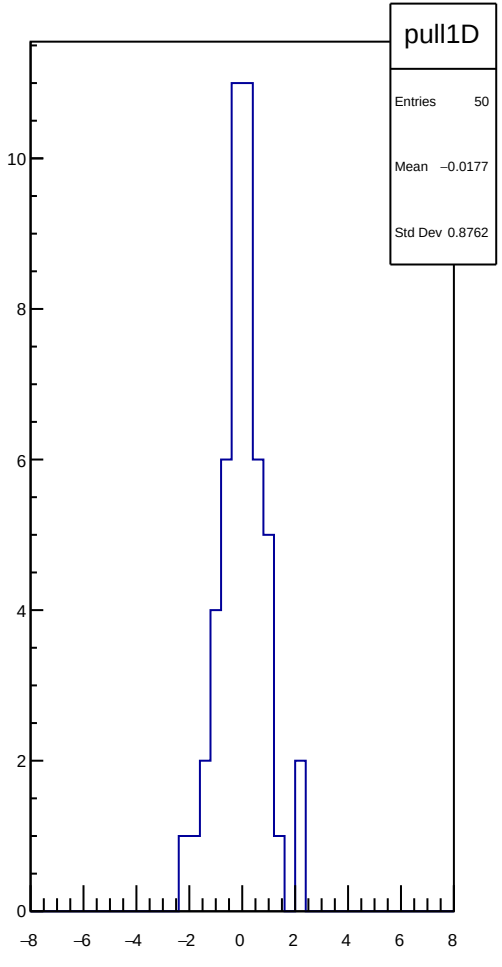

pull1D
Entries 50
Mean 0.003435
Std Dev 1.142
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

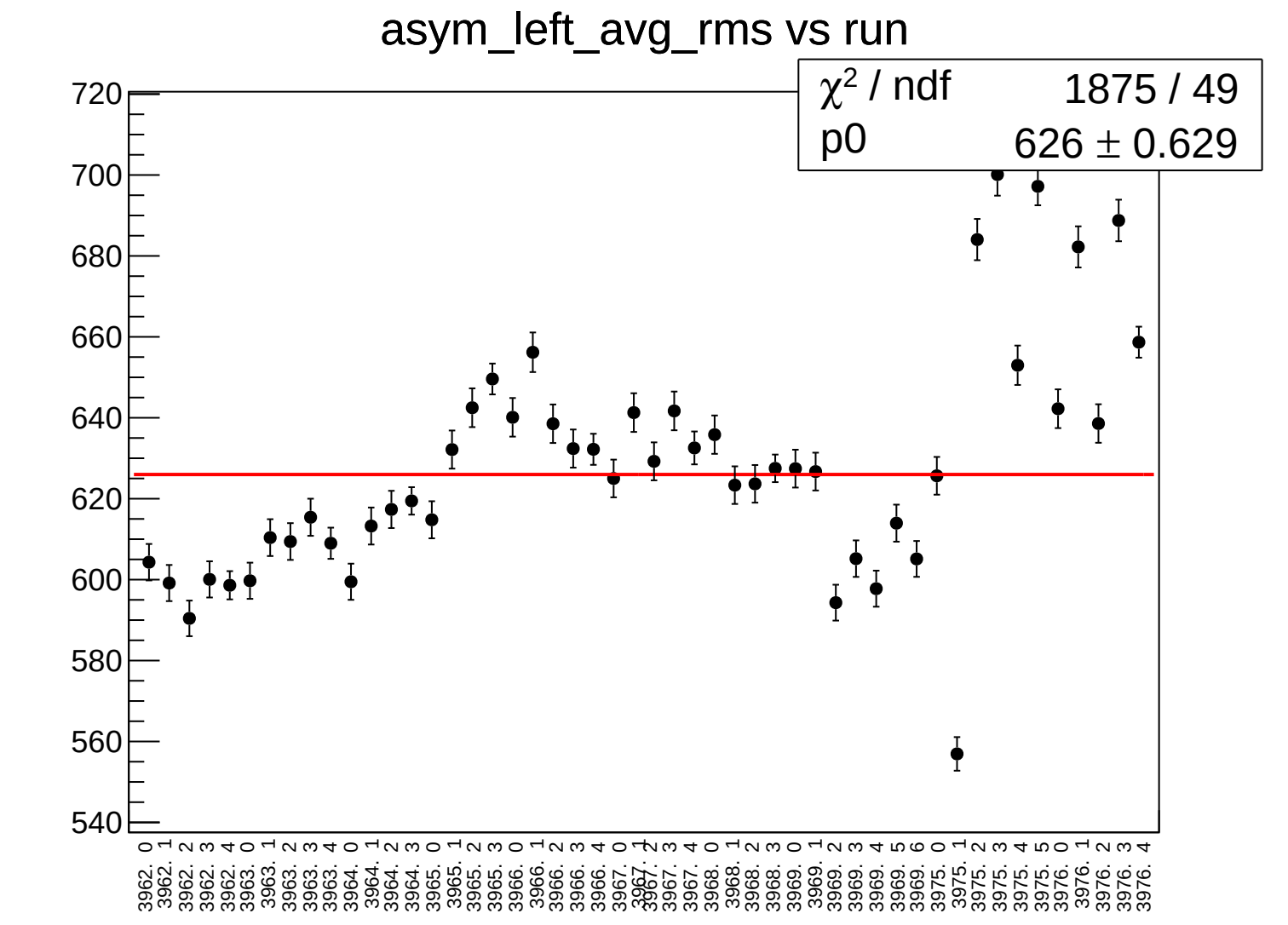

reg_asym_left_avg_rms vs run
χ^2 / ndf 54.28 / 49
p0 134.4 ± 0.1349
138
137
136
135
134
133
132
131
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_left_avg_correction_mean vs run
χ² / ndf 37.35 / 49
p0 1899 ± 868.6
20000
10000
0
−10000
−20000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 74.82
Std Dev 58.22
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.01679
Std Dev 0.8641
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_correction_rms vs run
χ² / ndf 2047 / 49
p0 611.3 ± 0.6142
700
680
660
640
620
600
580
560
540
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_left_avg_mean vs run
χ² / ndf 38.4 / 49
p0 −2322 ± 889.5
20000
10000
0
−10000
−20000
pull
Entries 50
Mean 165.8
Std Dev 145.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean −0.0177
Std Dev 0.8762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_rms vs run
χ² / ndf 1875 / 49
p0 626 ± 0.629
720
700
680
660
640
620
600
580
560
540
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
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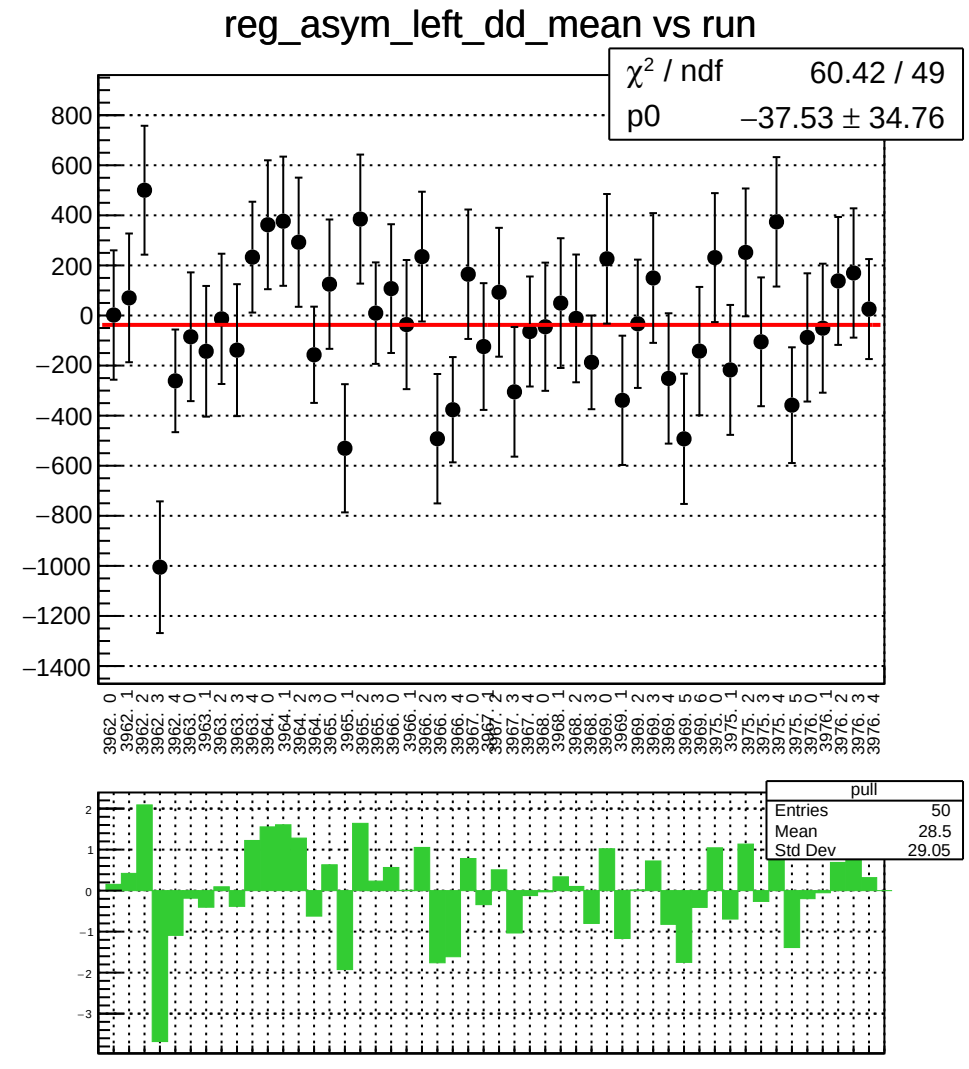
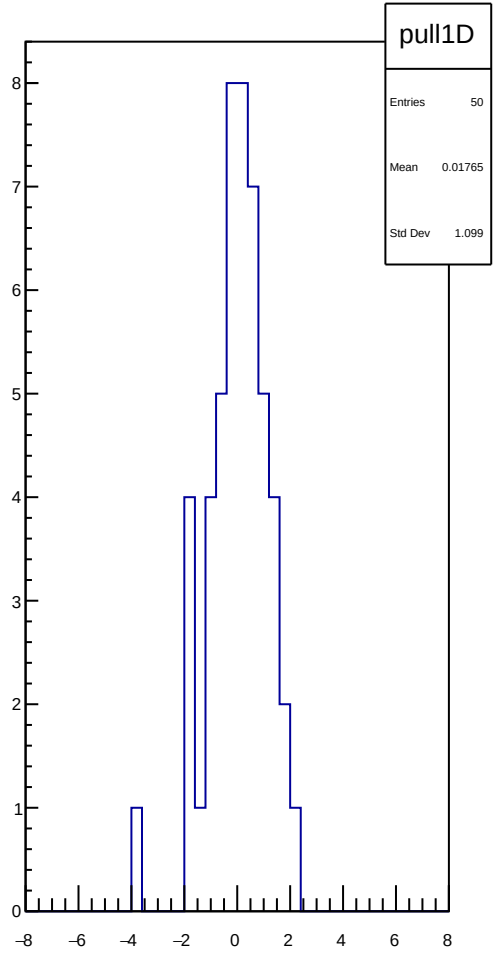
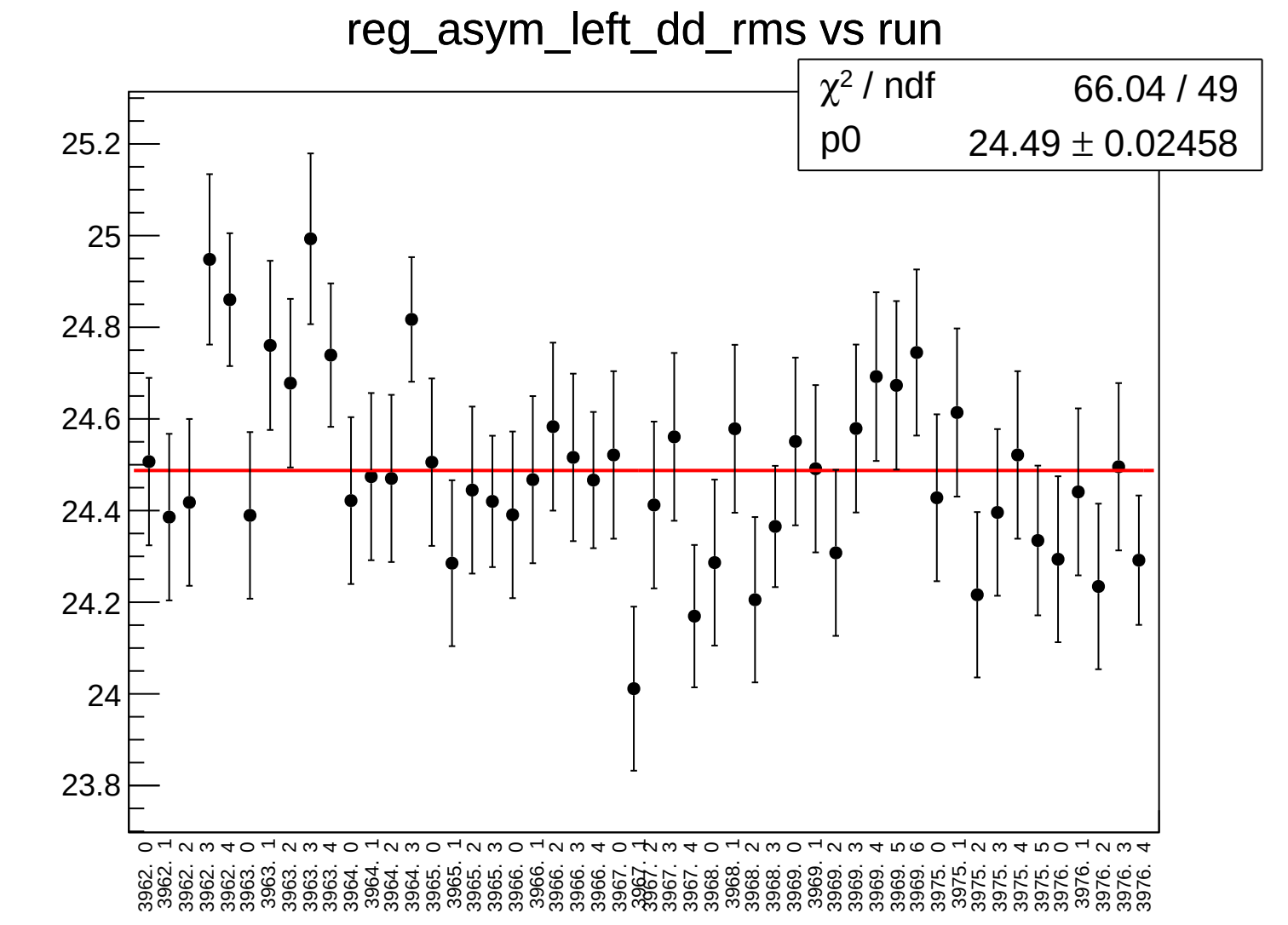
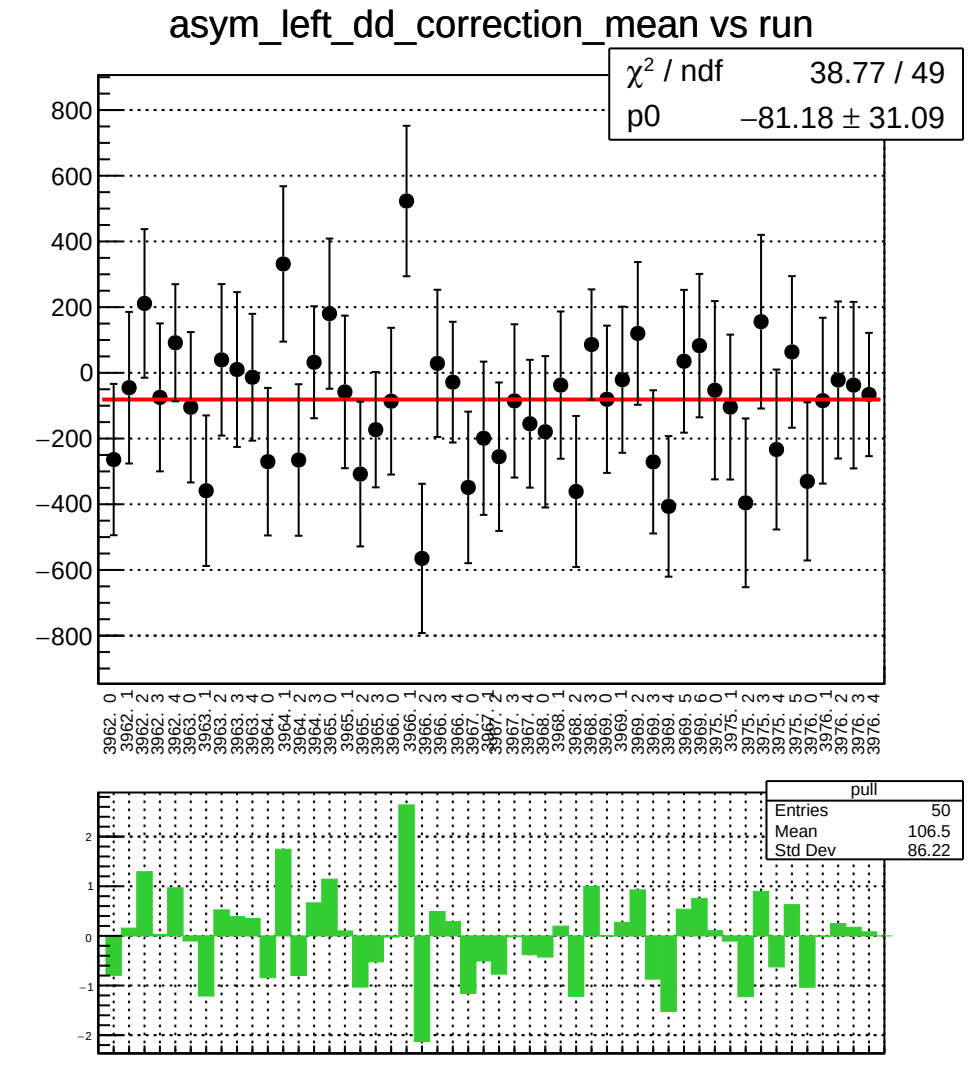
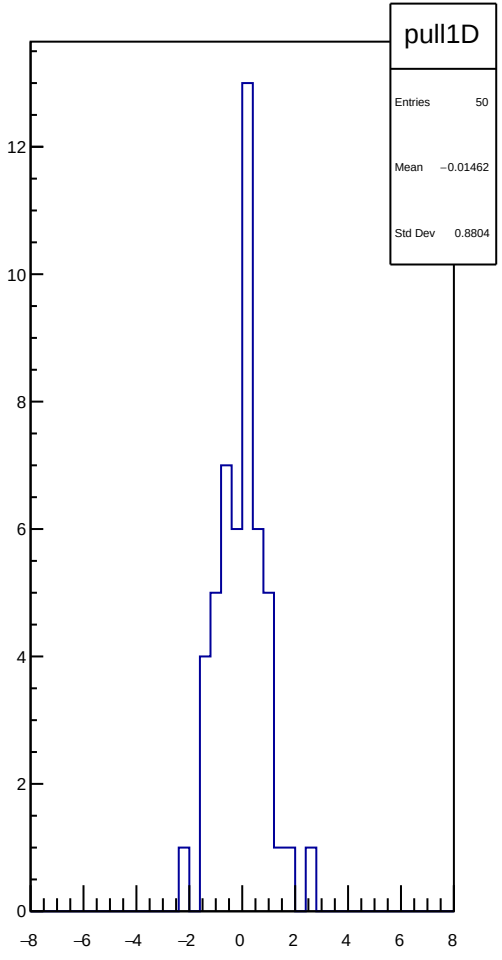
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

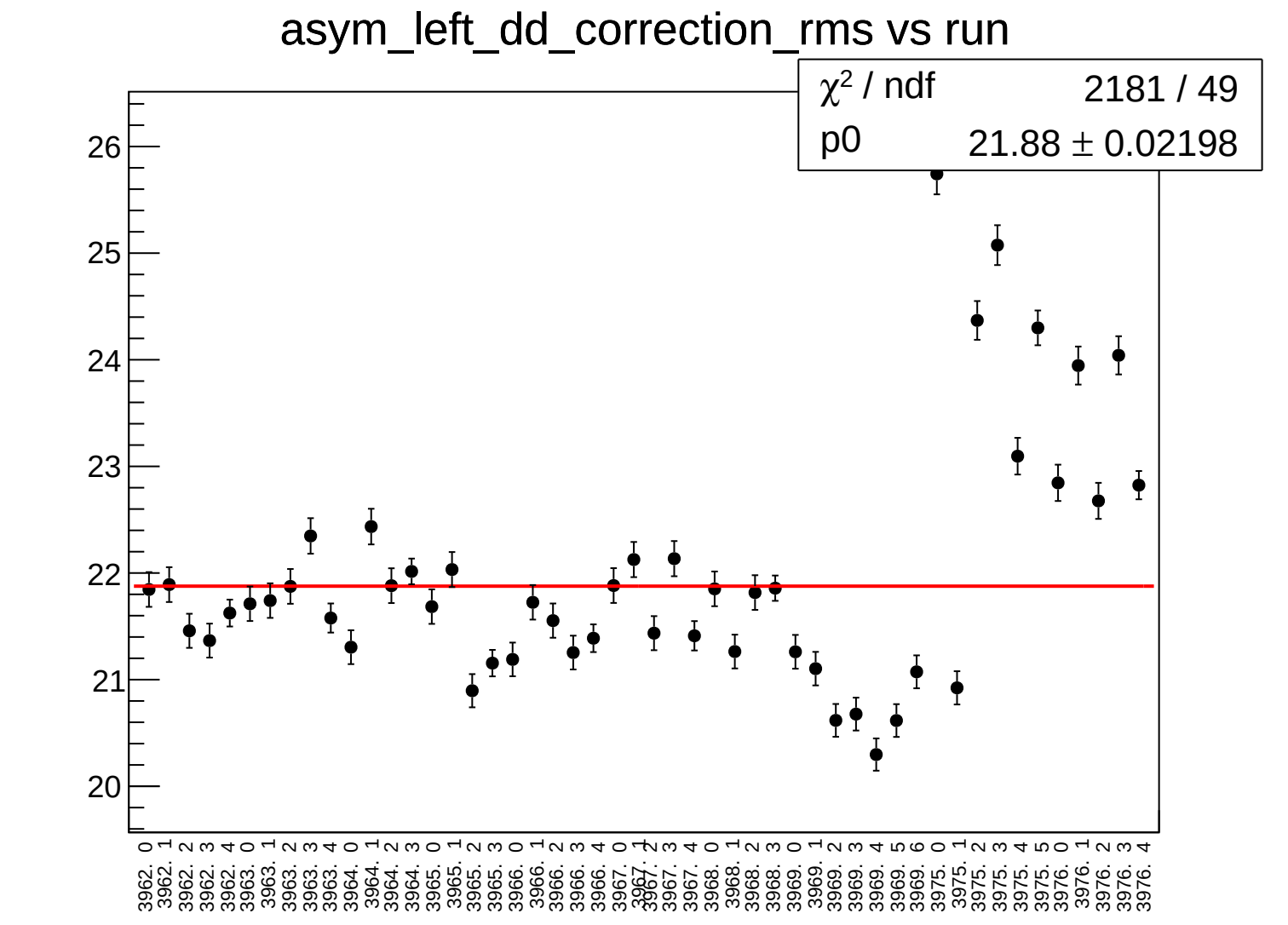

reg_asym_left_dd_mean vs run
χ² / ndf 60.42 / 49
p0 −37.53 ± 34.76
pull
Entries 50
Mean 28.5
Std Dev 29.05


pull1D
Entries 50
Mean 0.01765
Std Dev 1.099


reg_asym_left_dd_rms vs run
χ² / ndf 66.04 / 49
p0 24.49 ± 0.02458
25.2
25
24.8
24.6
24.4
24.2
24
23.8
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_left_dd_correction_mean vs run
χ² / ndf 38.77 / 49
p0 −81.18 ± 31.09
pull
Entries 50
Mean 106.5
Std Dev 86.22


pull1D
Entries 50
Mean −0.01462
Std Dev 0.8804


asym_left_dd_correction_rms vs run
χ² / ndf 2181 / 49
p0 21.88 ± 0.02198
26
25
24
23
22
21
20
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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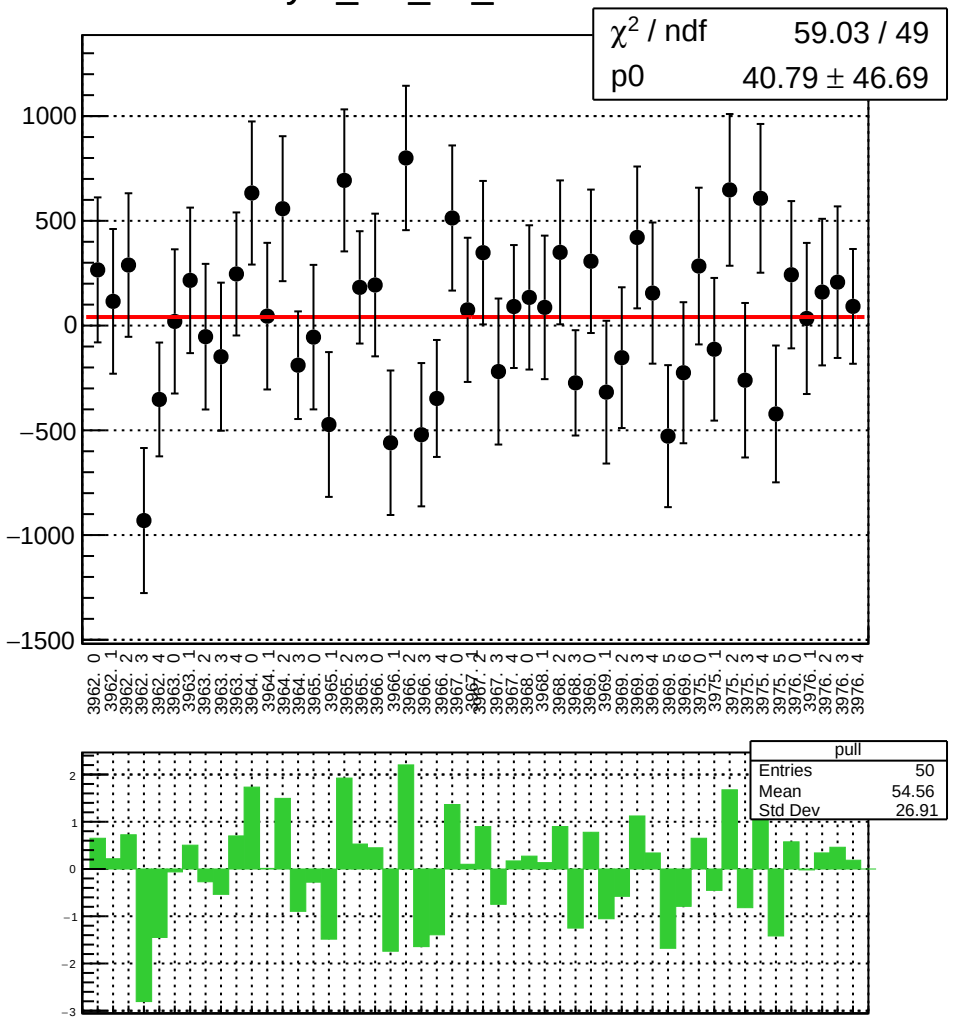
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_left_dd_mean vs run
χ^2 / ndf 59.03 / 49
p0 40.79 ± 46.69
1000
500
0
−500
−1000
−1500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
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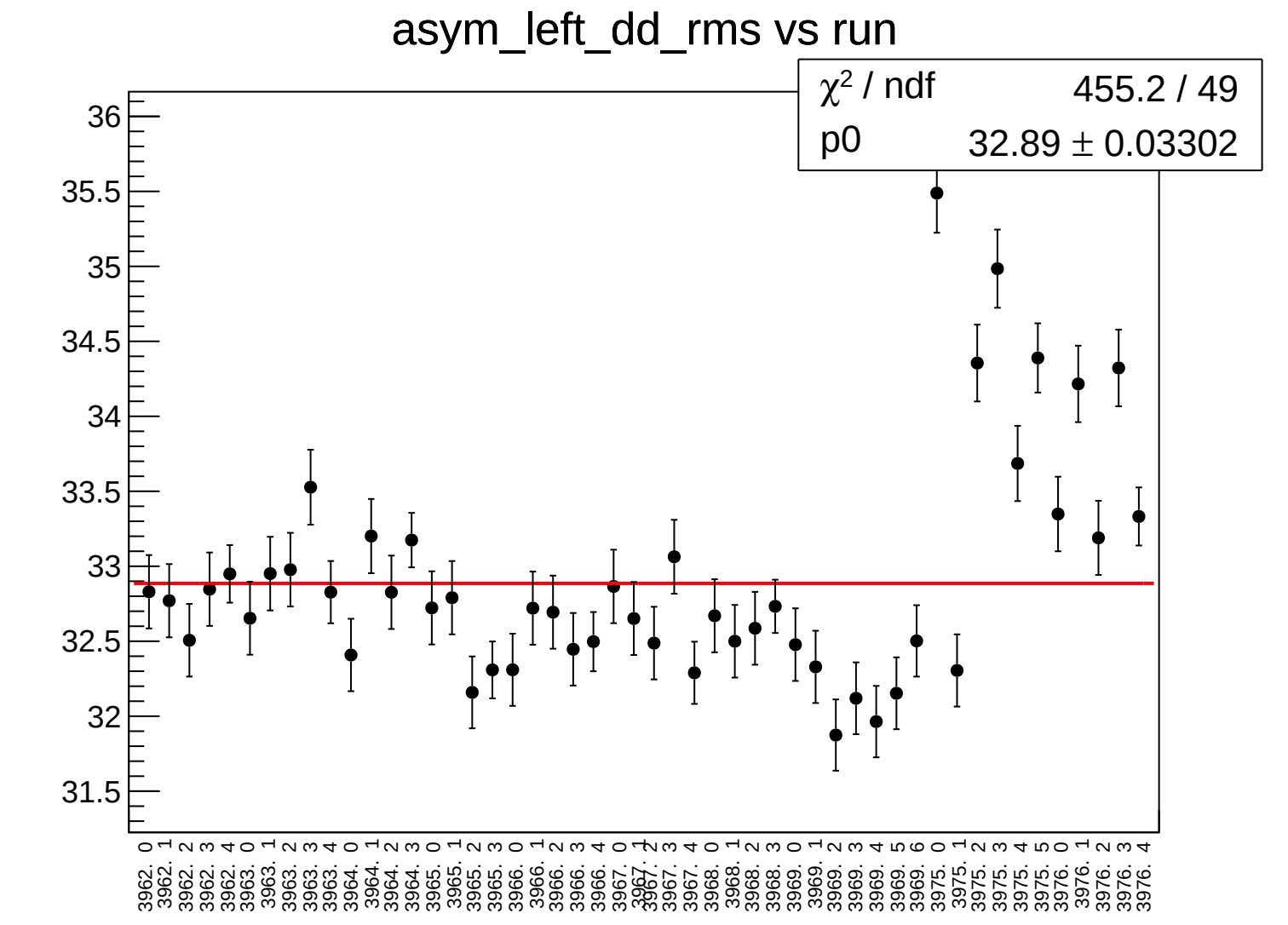
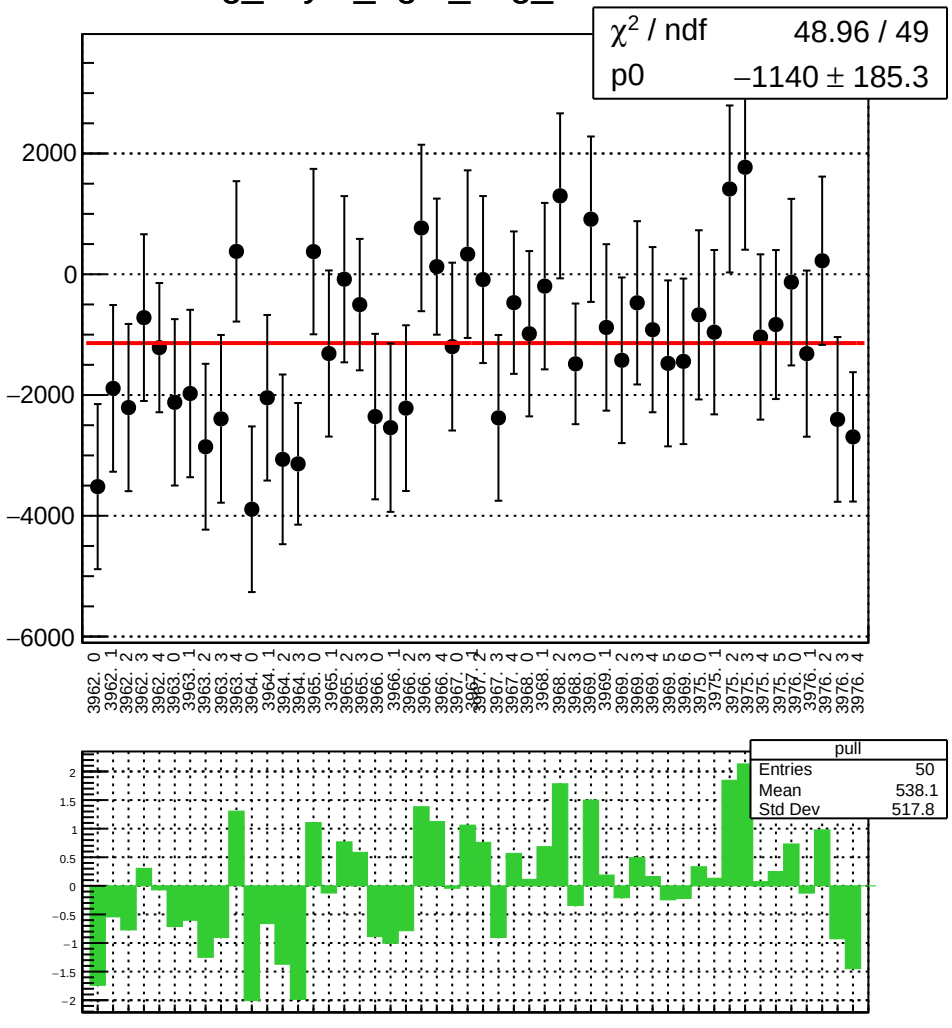
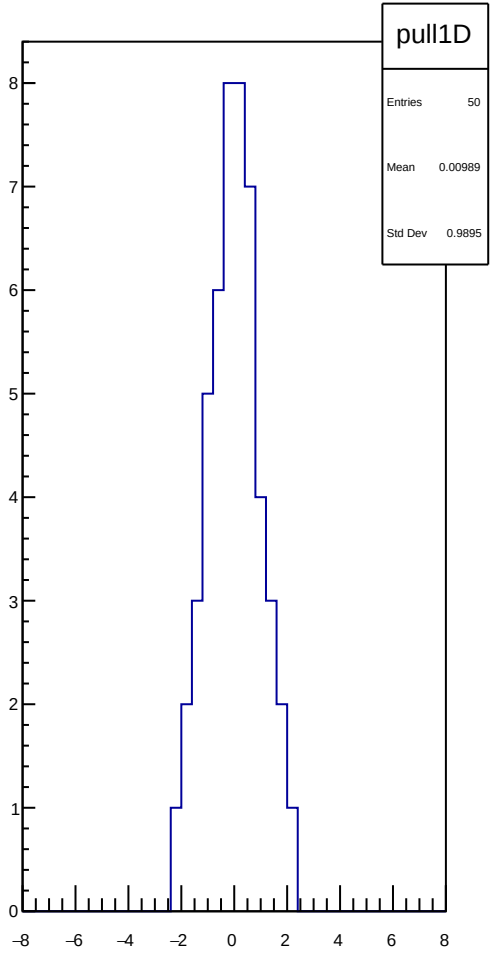
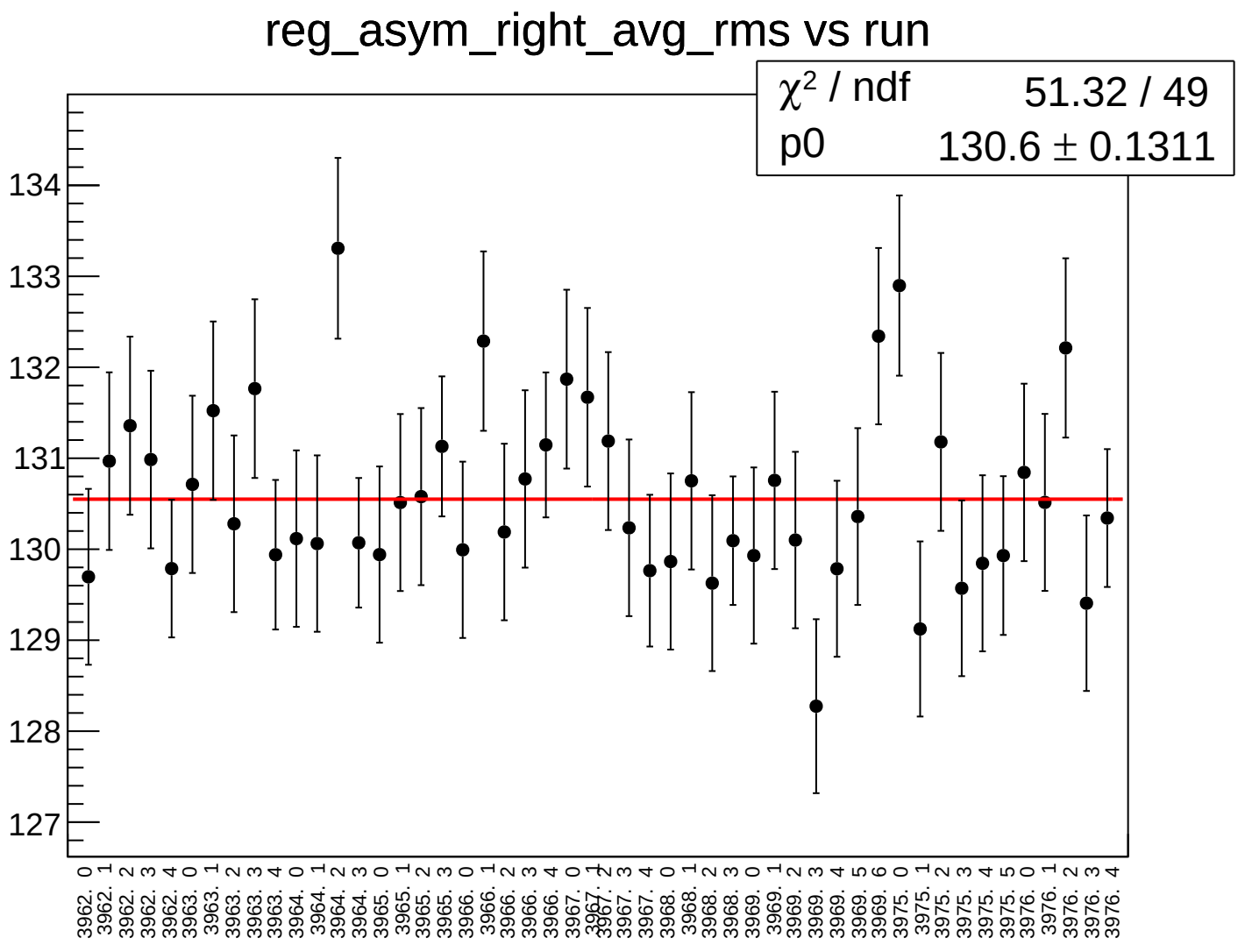
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 54.56
Std Dev 26.91
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.02692
Std Dev 1.086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_dd_rms vs run
χ² / ndf 455.2 / 49
p0 32.89 ± 0.03302
36
35.5
35
34.5
34
33.5
33
32.5
32
31.5
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_right_avg_mean vs run
χ² / ndf 48.96 / 49
p0 −1140 ± 185.3
pull
Entries 50
Mean 538.1
Std Dev 517.8


pull1D
Entries 50
Mean 0.00989
Std Dev 0.9895


reg_asym_right_avg_rms vs run
χ² / ndf 51.32 / 49
p0 130.6 ± 0.1311
134
133
132
131
130
129
128
127
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
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3966. 2
3966. 3
3966. 4
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3967. 2
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3967. 4
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3968. 1
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3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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3975. 3
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3976. 0
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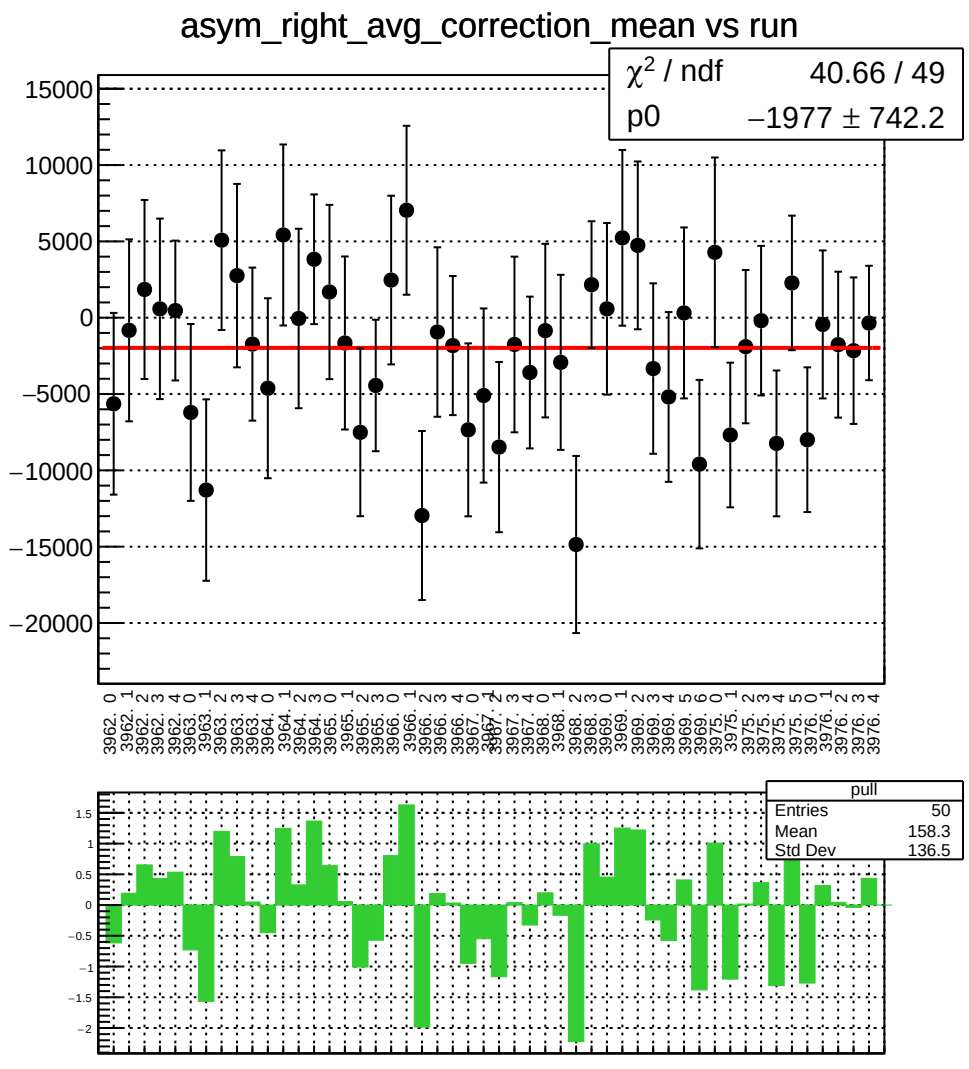
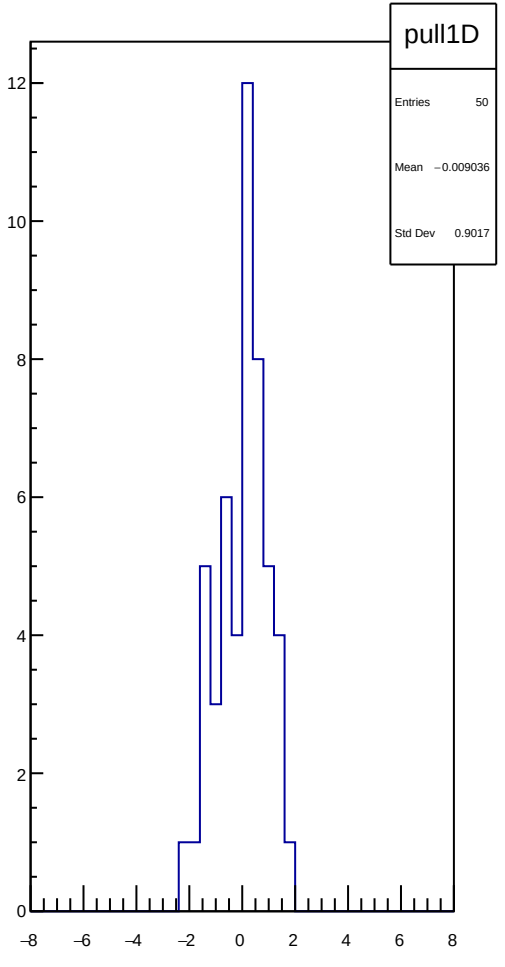
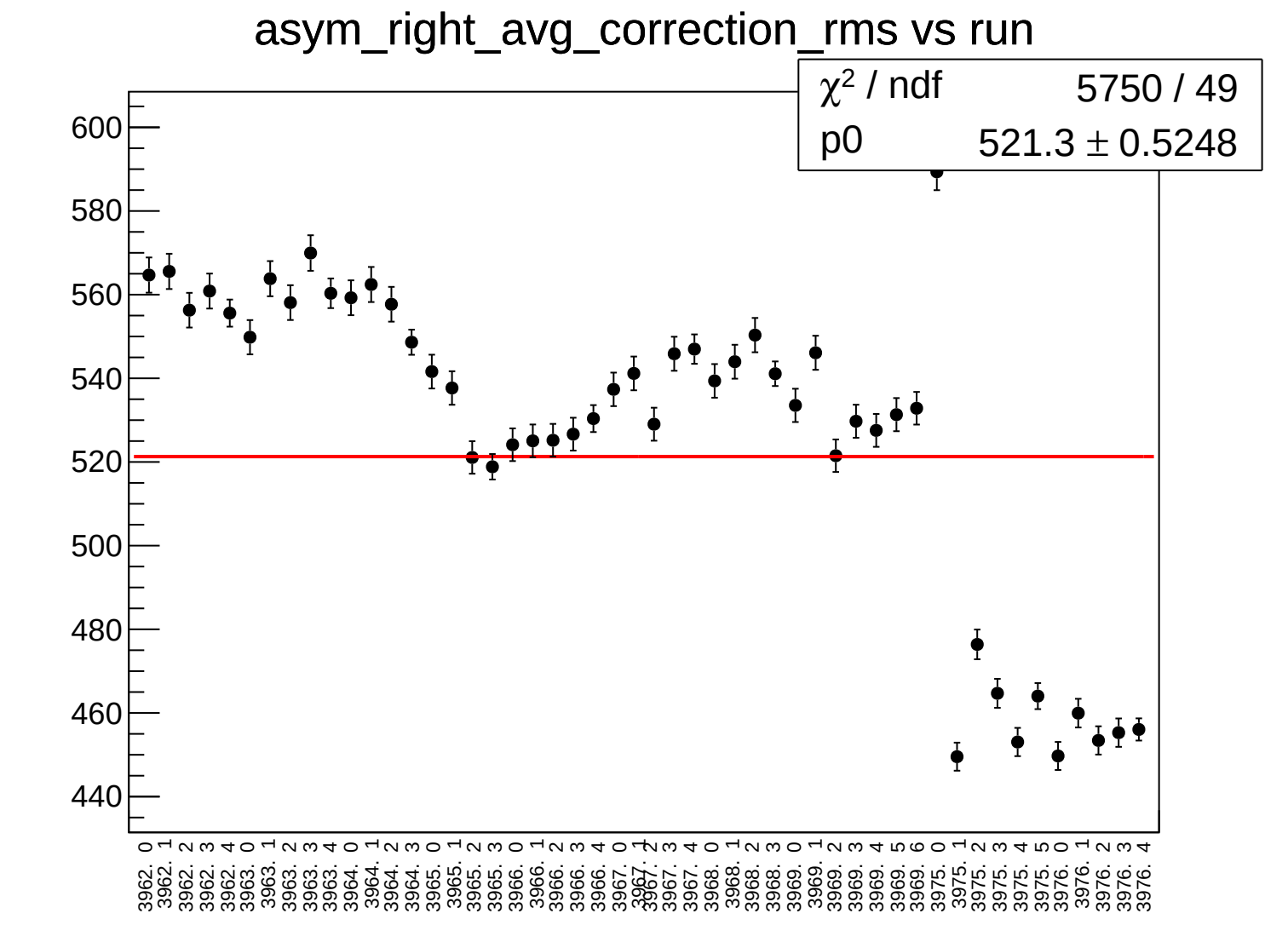
3976. 3
3976. 4


asym_right_avg_correction_mean vs run
χ² / ndf 40.66 / 49
p0 −1977 ± 742.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 50
Mean 158.3
Std Dev 136.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.009036
Std Dev 0.9017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_avg_correction_rms vs run
χ² / ndf 5750 / 49
p0 521.3 ± 0.5248
600
580
560
540
520
500
480
460
440
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
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3965. 0
3965. 1
3965. 2
3965. 3
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3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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3975. 3
3975. 4
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3976. 0
3976. 1
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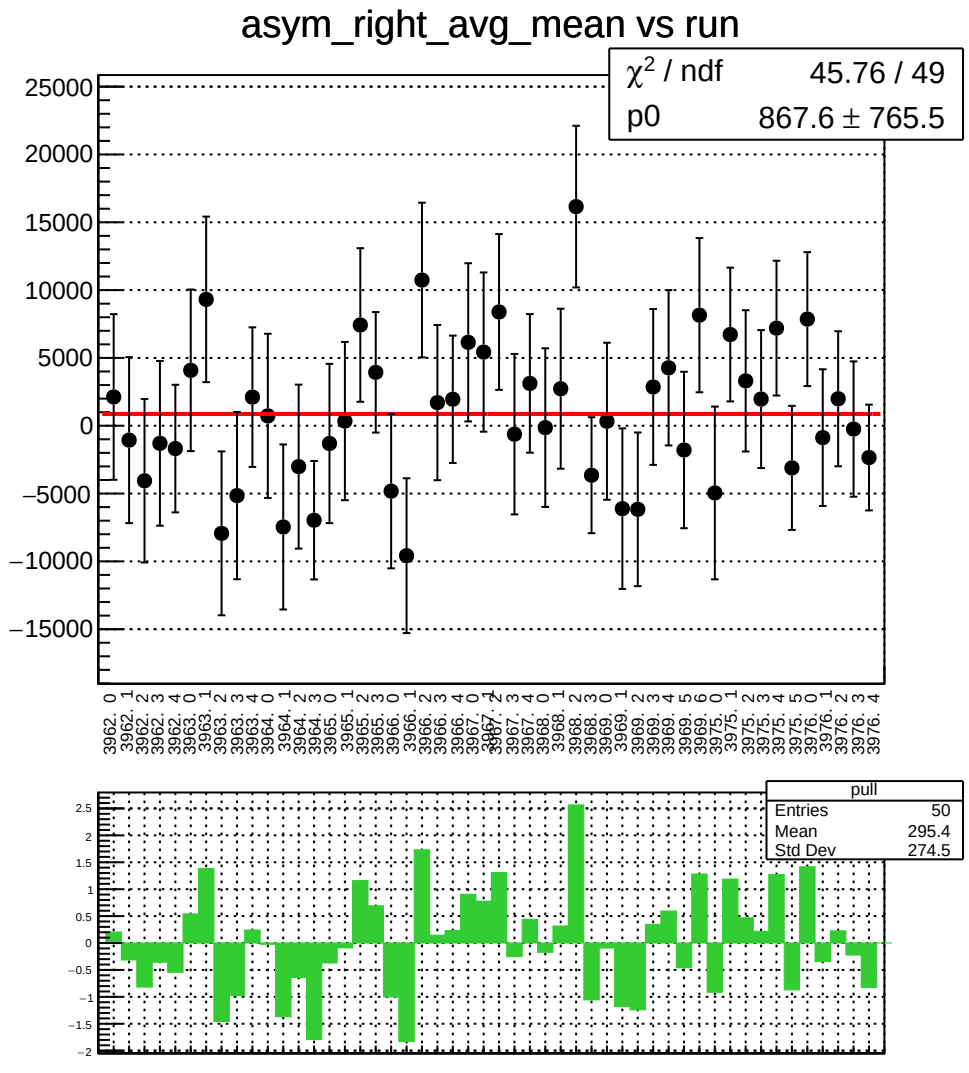
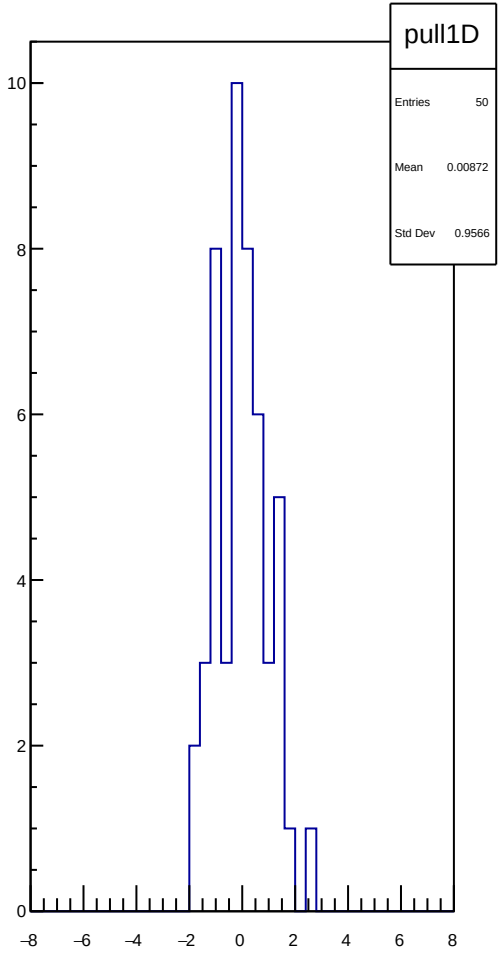
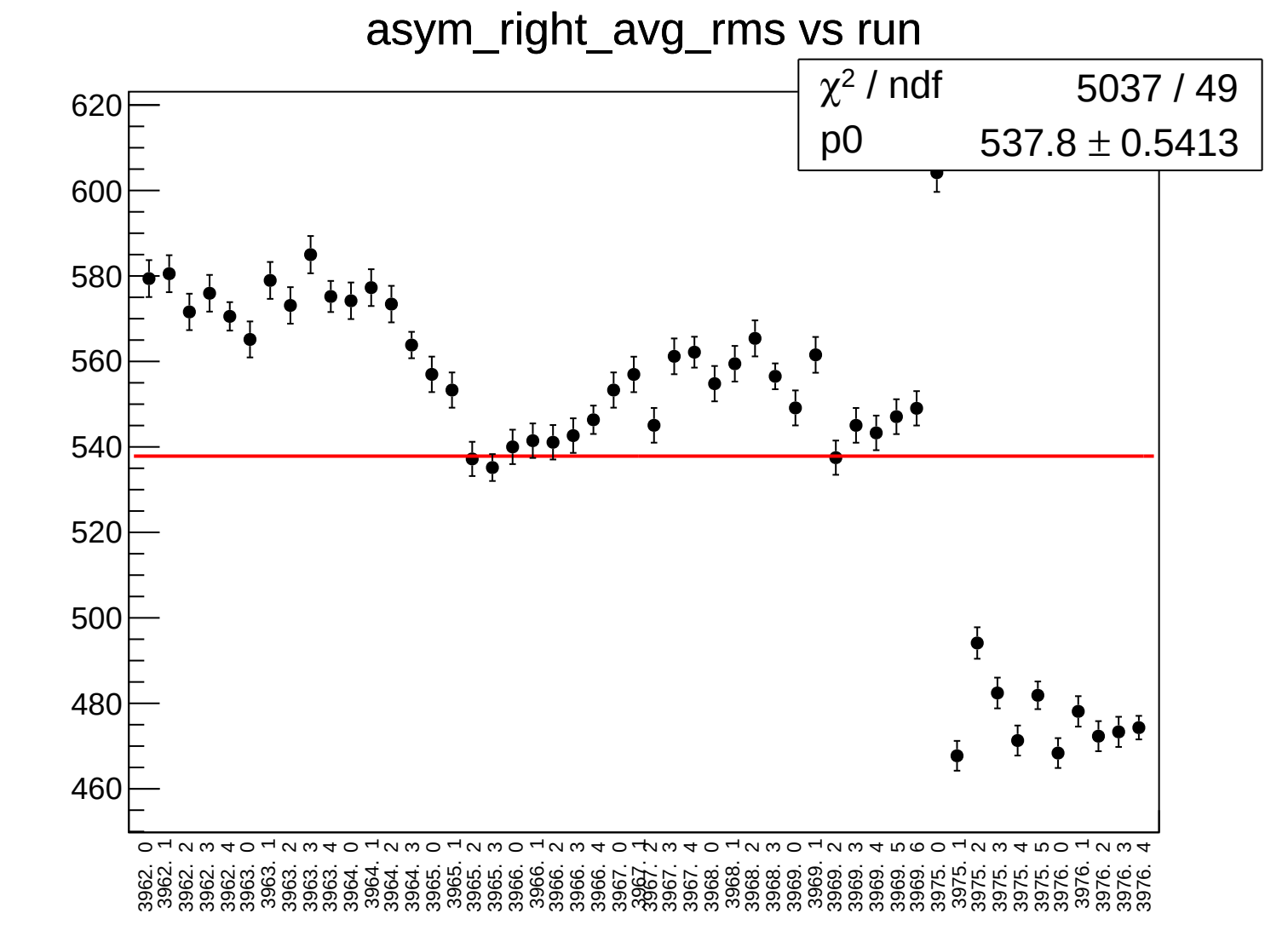
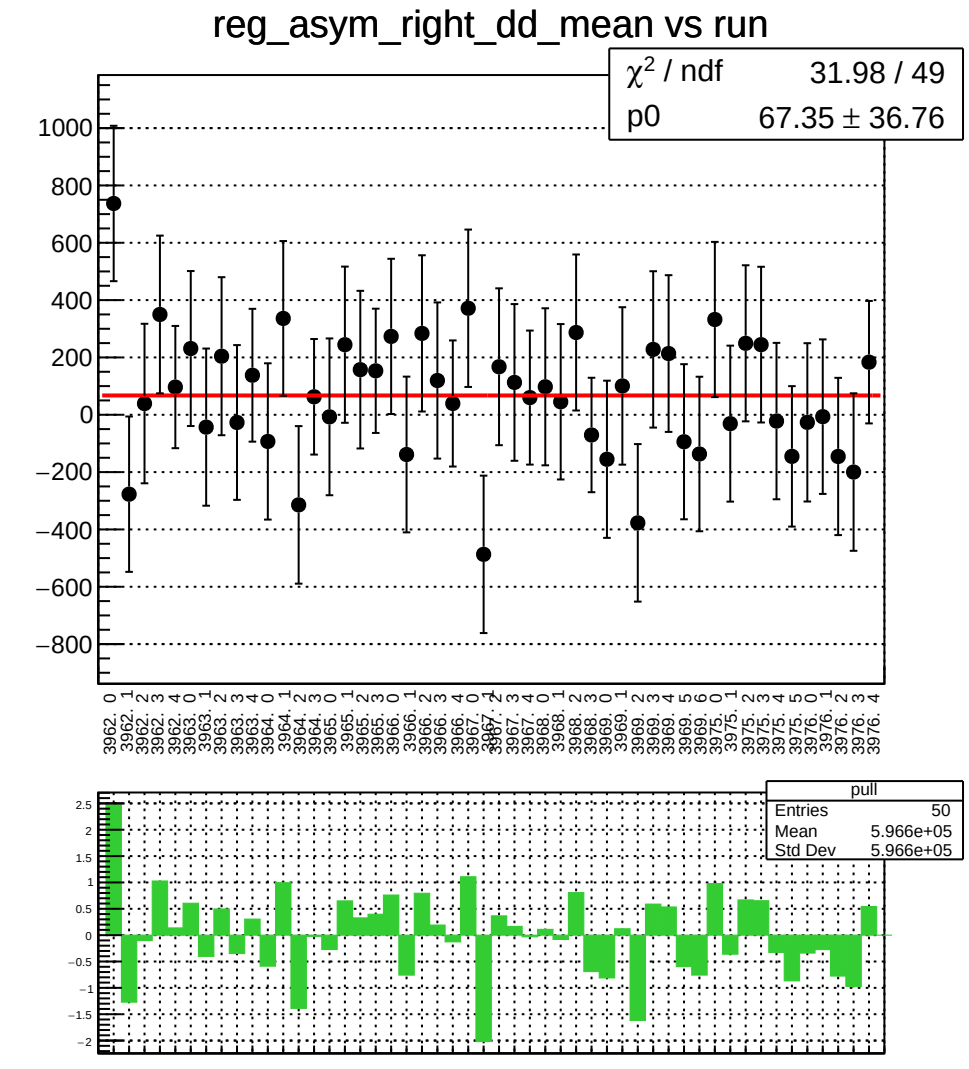
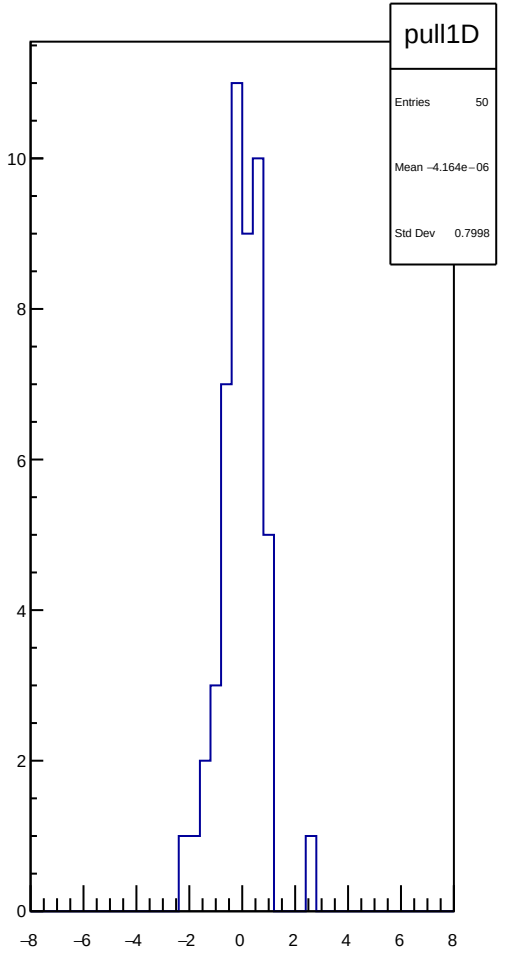
3976. 3
3976. 4

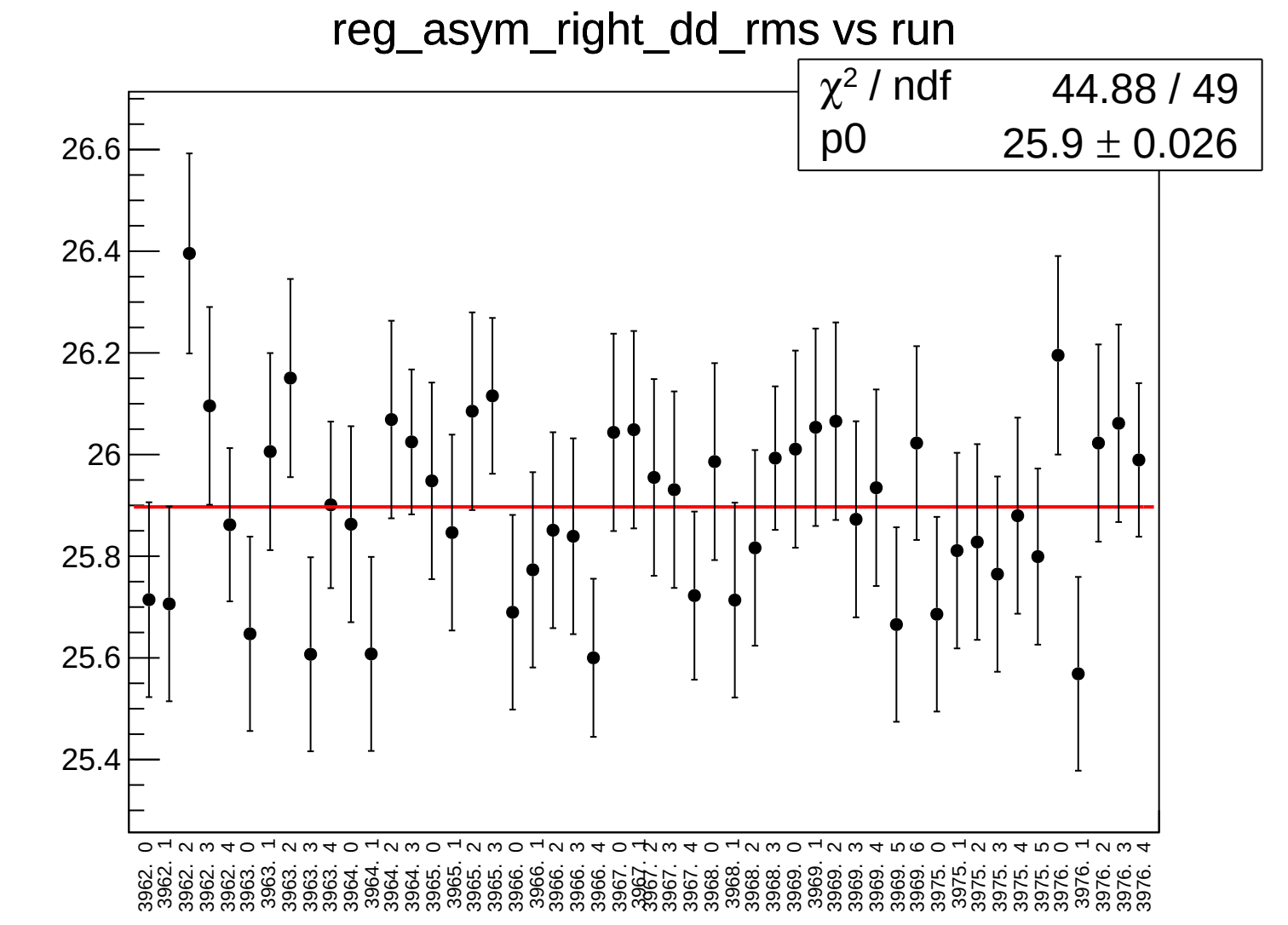

asym_right_avg_mean vs run
χ² / ndf 45.76 / 49
p0 867.6 ± 765.5
pull
Entries 50
Mean 295.4
Std Dev 274.5

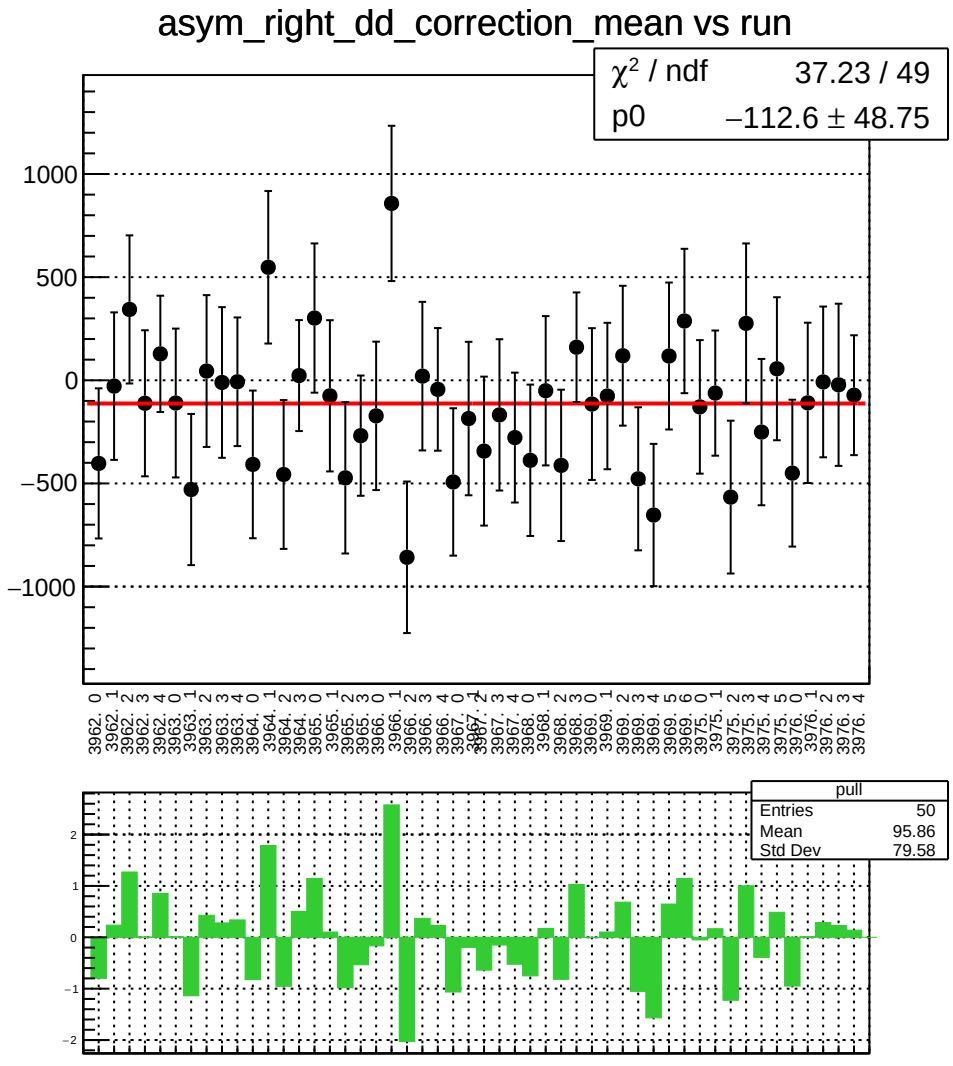

pull1D
Entries 50
Mean 0.00872
Std Dev 0.9566

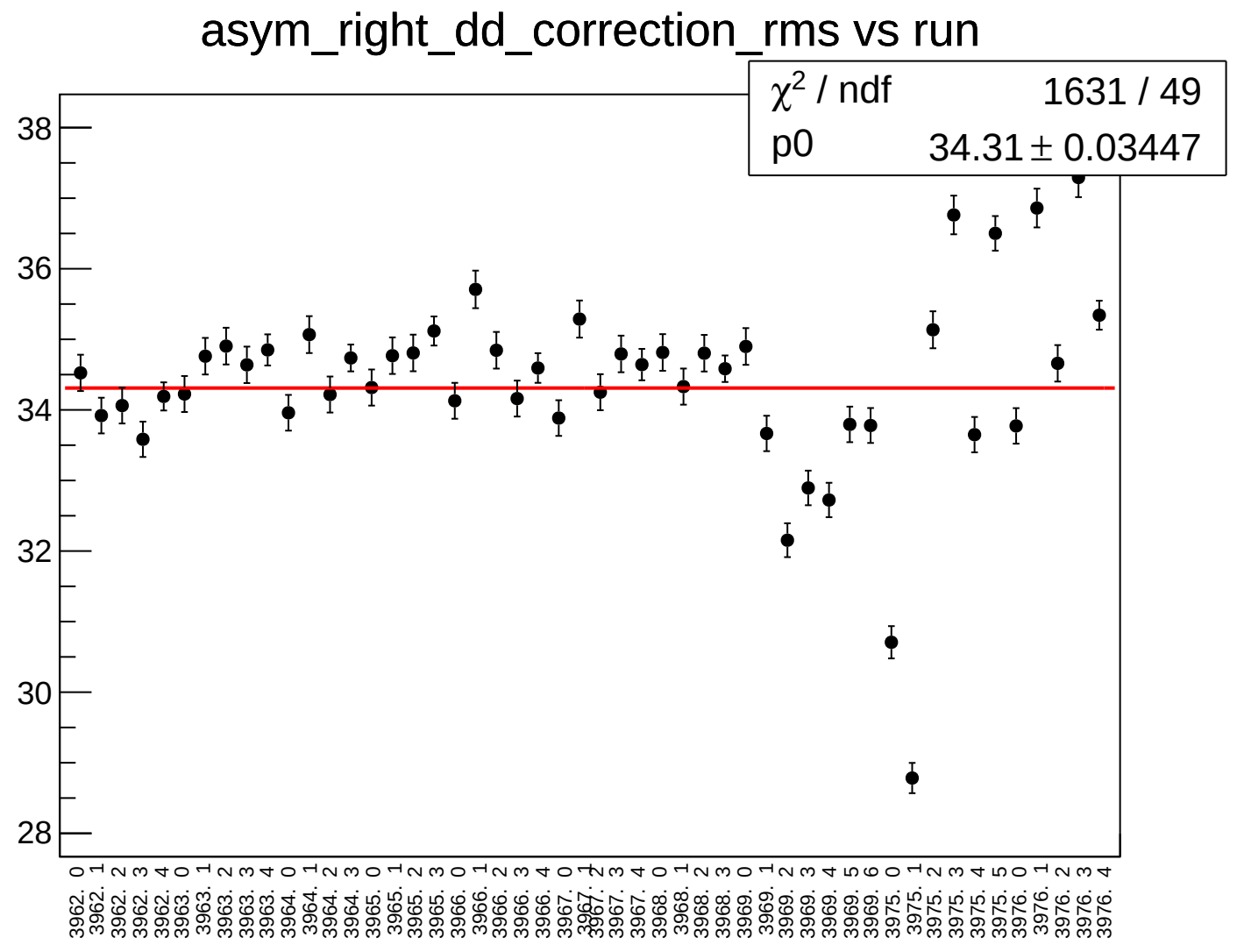

asym_right_avg_rms vs run
χ² / ndf 5037 / 49
p0 537.8 ± 0.5413
620
600
580
560
540
520
500
480
460
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

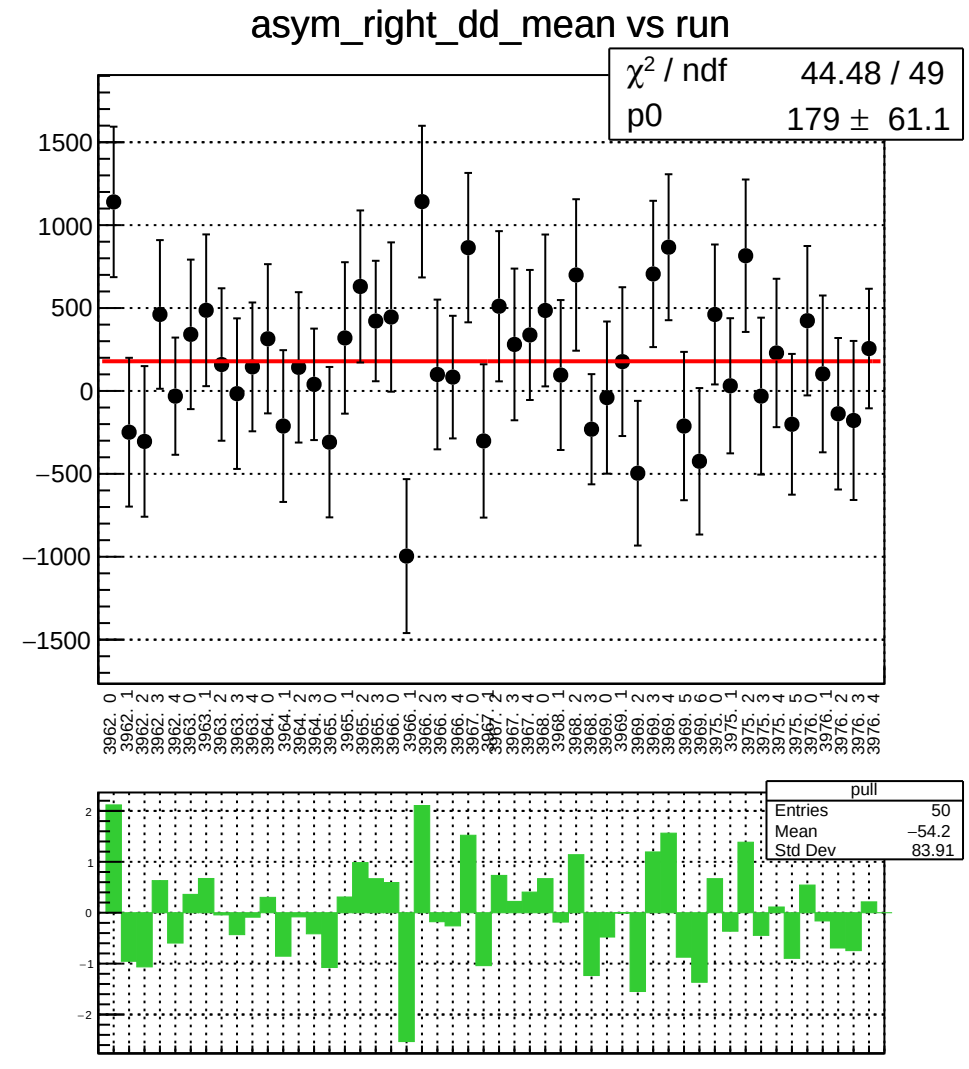

reg_asym_right_dd_mean vs run
χ^2 / ndf 31.98 / 49
p0 67.35 ± 36.76
pull
Entries 50
Mean 5.966e+05
Std Dev 5.966e+05

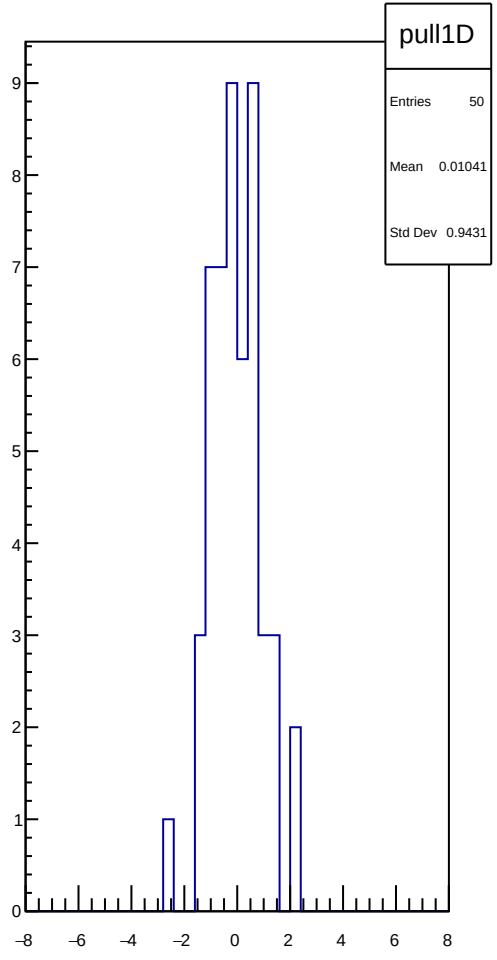

pull1D
Entries 50
Mean −4.164e−06
Std Dev 0.7998

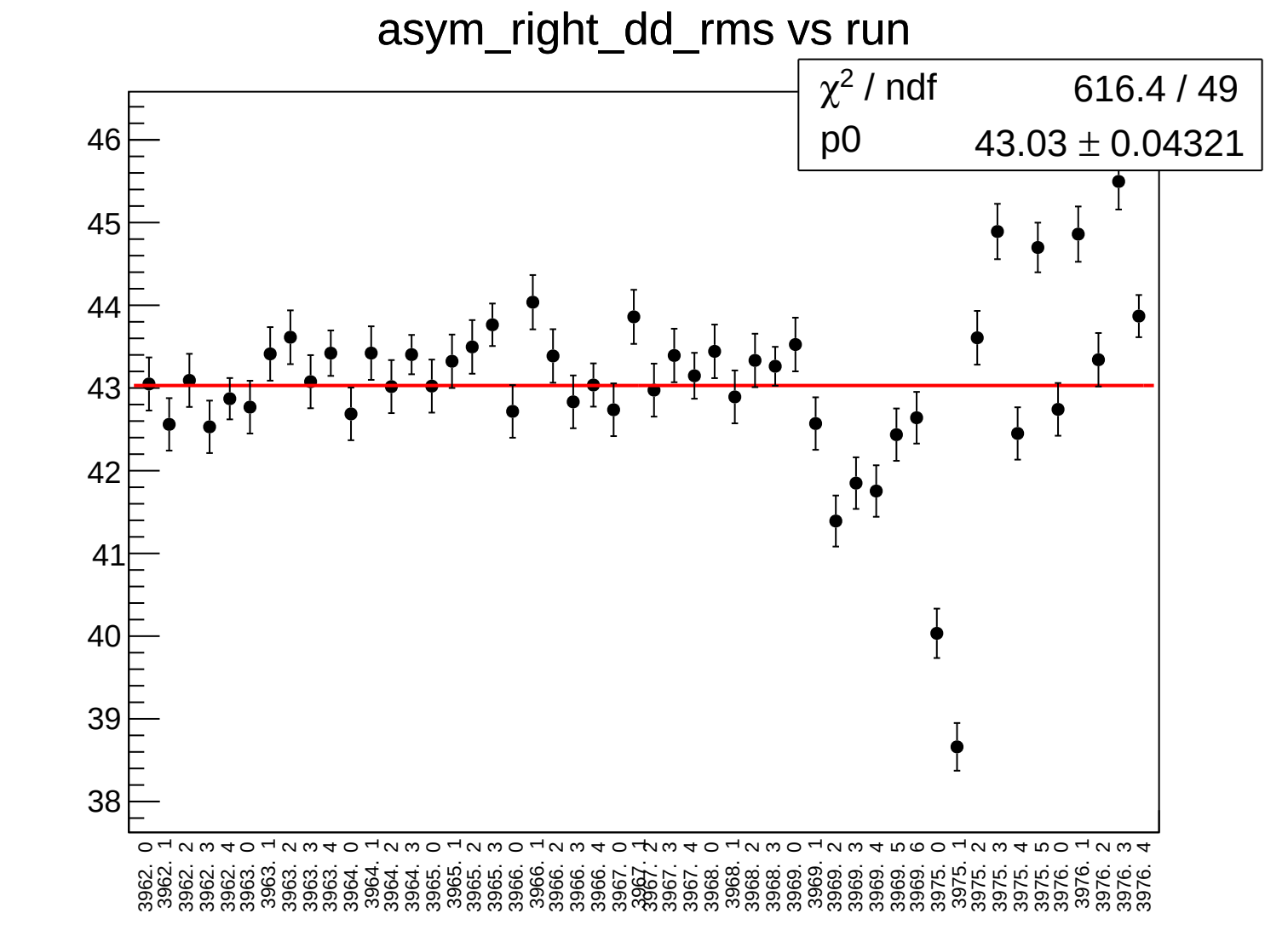

reg_asym_right_dd_rms vs run
χ² / ndf 44.88 / 49
p0 25.9 ± 0.026
26.6
26.4
26.2
26
25.8
25.6
25.4
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

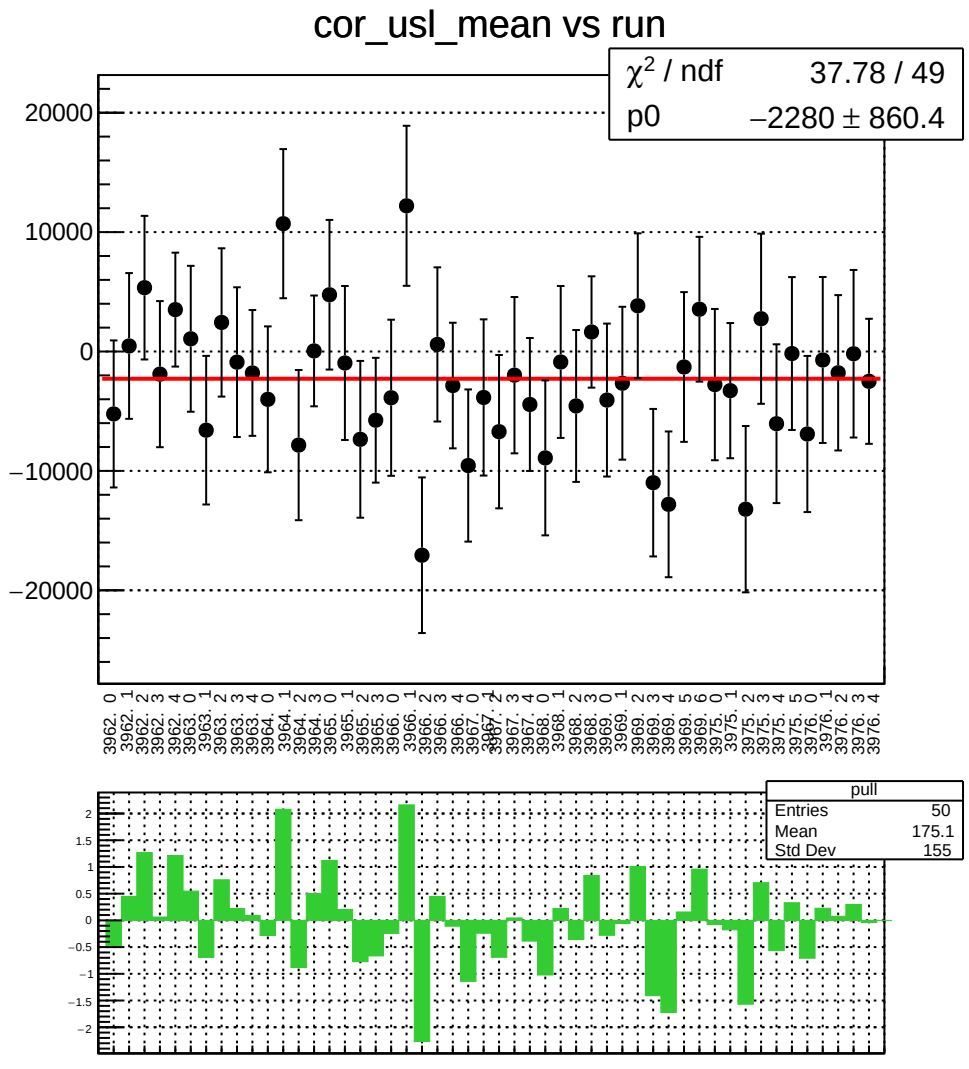

asym_right_dd_correction_mean vs run
χ² / ndf 37.23 / 49
p0 −112.6 ± 48.75
1000
500
0
−500
−1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 95.86
Std Dev 79.58
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.01177
Std Dev 0.8628
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

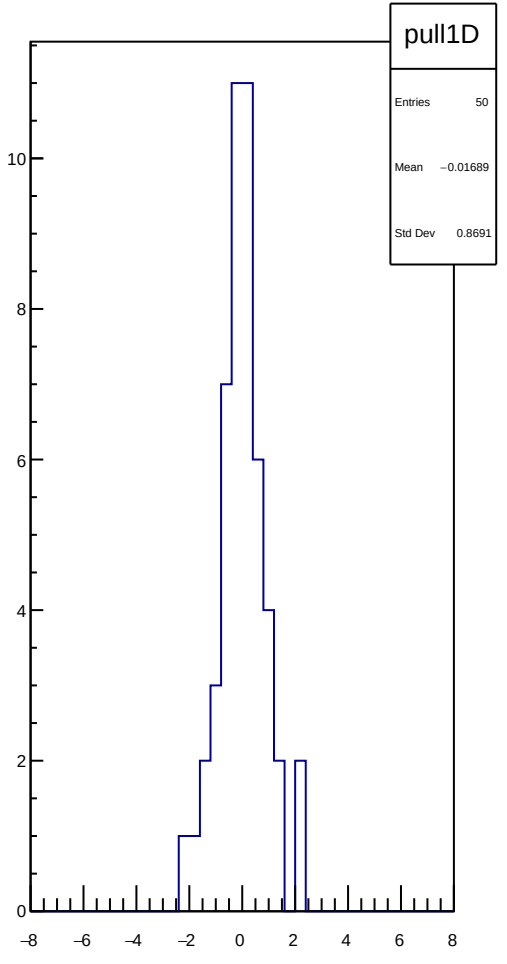

asym_right_dd_correction_rms vs run
χ² / ndf 1631 / 49
p0 34.31 ± 0.03447
38
36
34
32
30
28
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

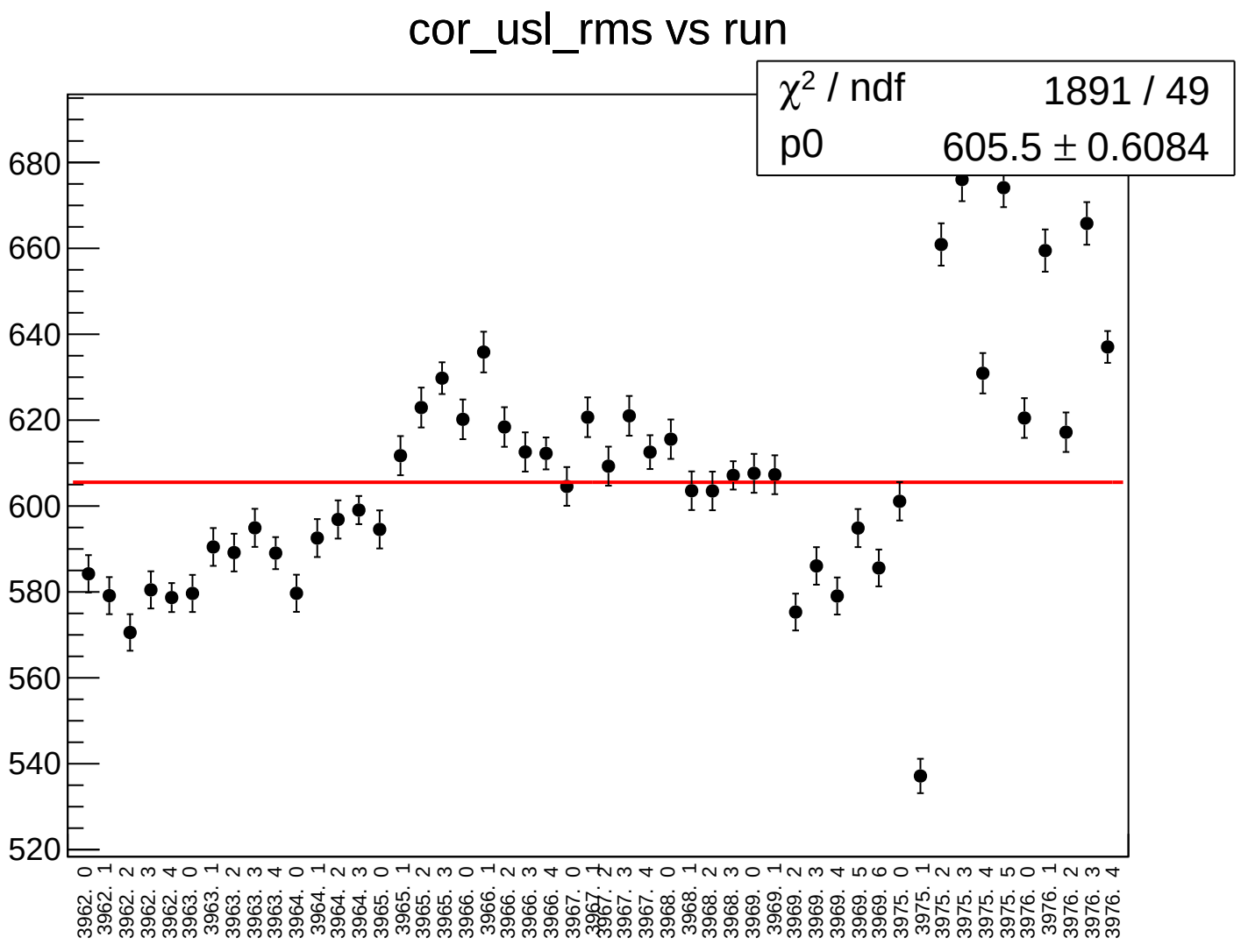

asym_right_dd_mean vs run
χ^2 / ndf 44.48 / 49
p0 179 ± 61.1
1500
1000
500
0
−500
−1000
−1500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −54.2
Std Dev 83.91
2
1
0
−1
−2

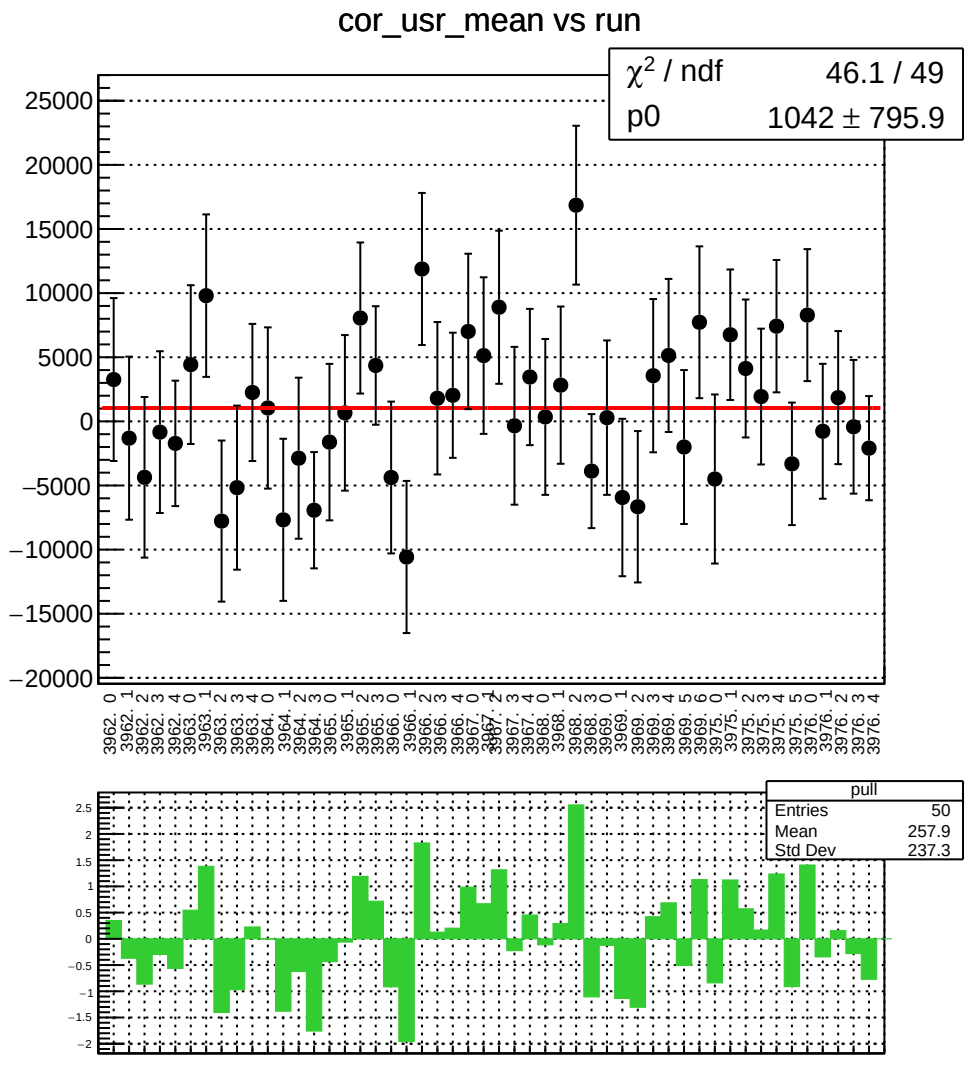

pull1D
Entries 50
Mean 0.01041
Std Dev 0.9431
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

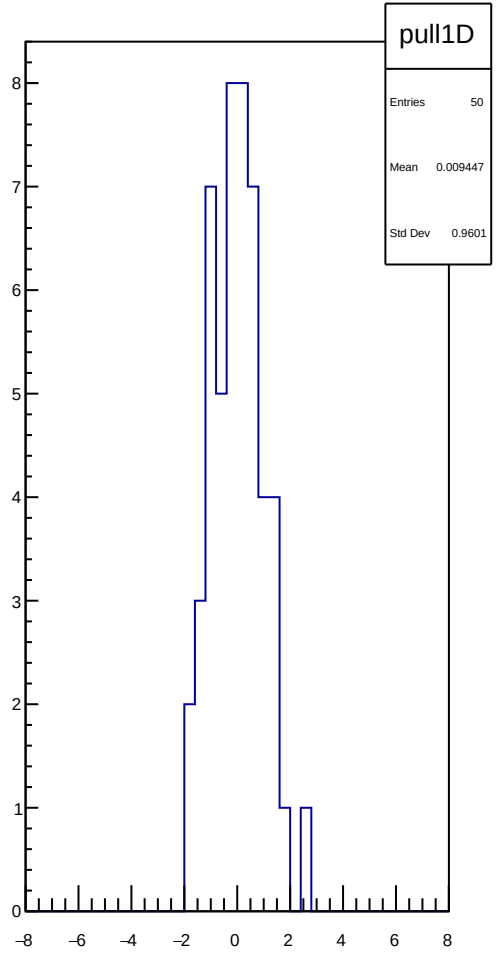

asym_right_dd_rms vs run
χ^2 / ndf 616.4 / 49
p0 43.03 ± 0.04321
46
45
44
43
42
41
40
39
38
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

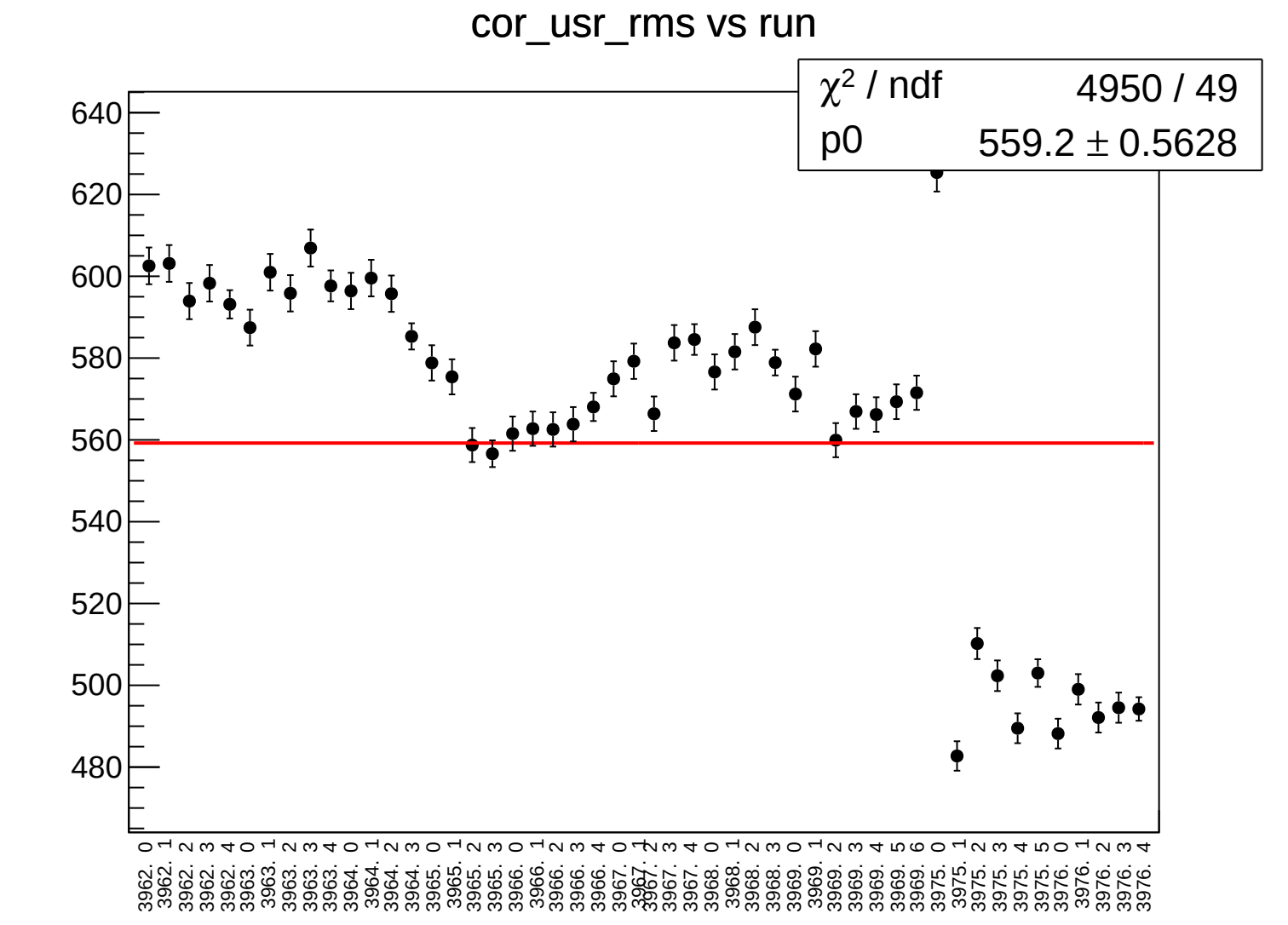

cor_usl_mean vs run
χ² / ndf 37.78 / 49
p0 −2280 ± 860.4
20000
10000
0
−10000
−20000
pull
Entries 50
Mean 175.1
Std Dev 155
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

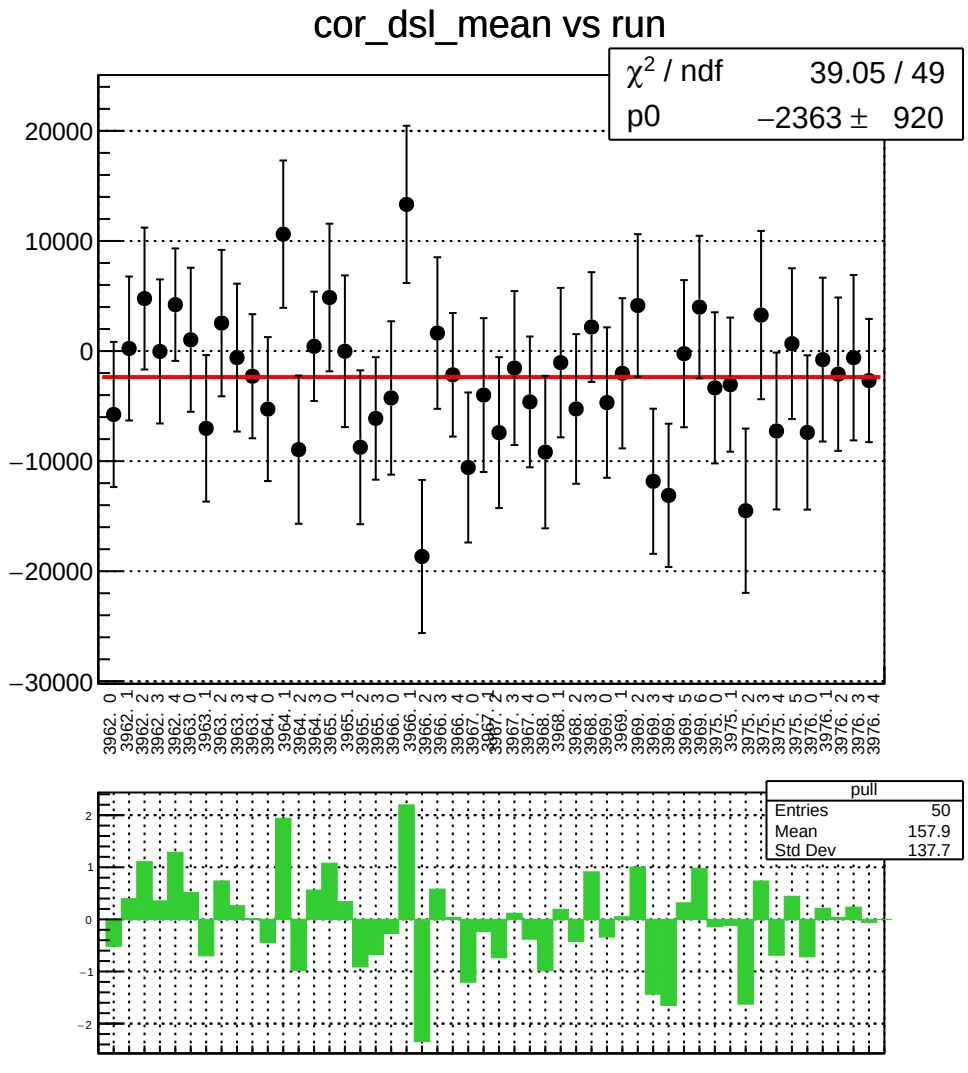

pull1D
Entries 50
Mean −0.01689
Std Dev 0.8691
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

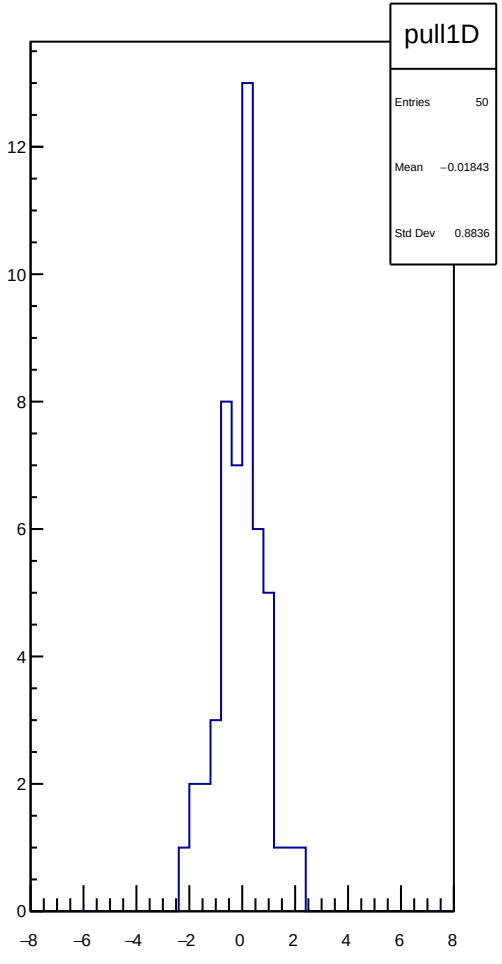

cor_usl_rms vs run
χ² / ndf 1891 / 49
p0 605.5 ± 0.6084
680
660
640
620
600
580
560
540
520
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

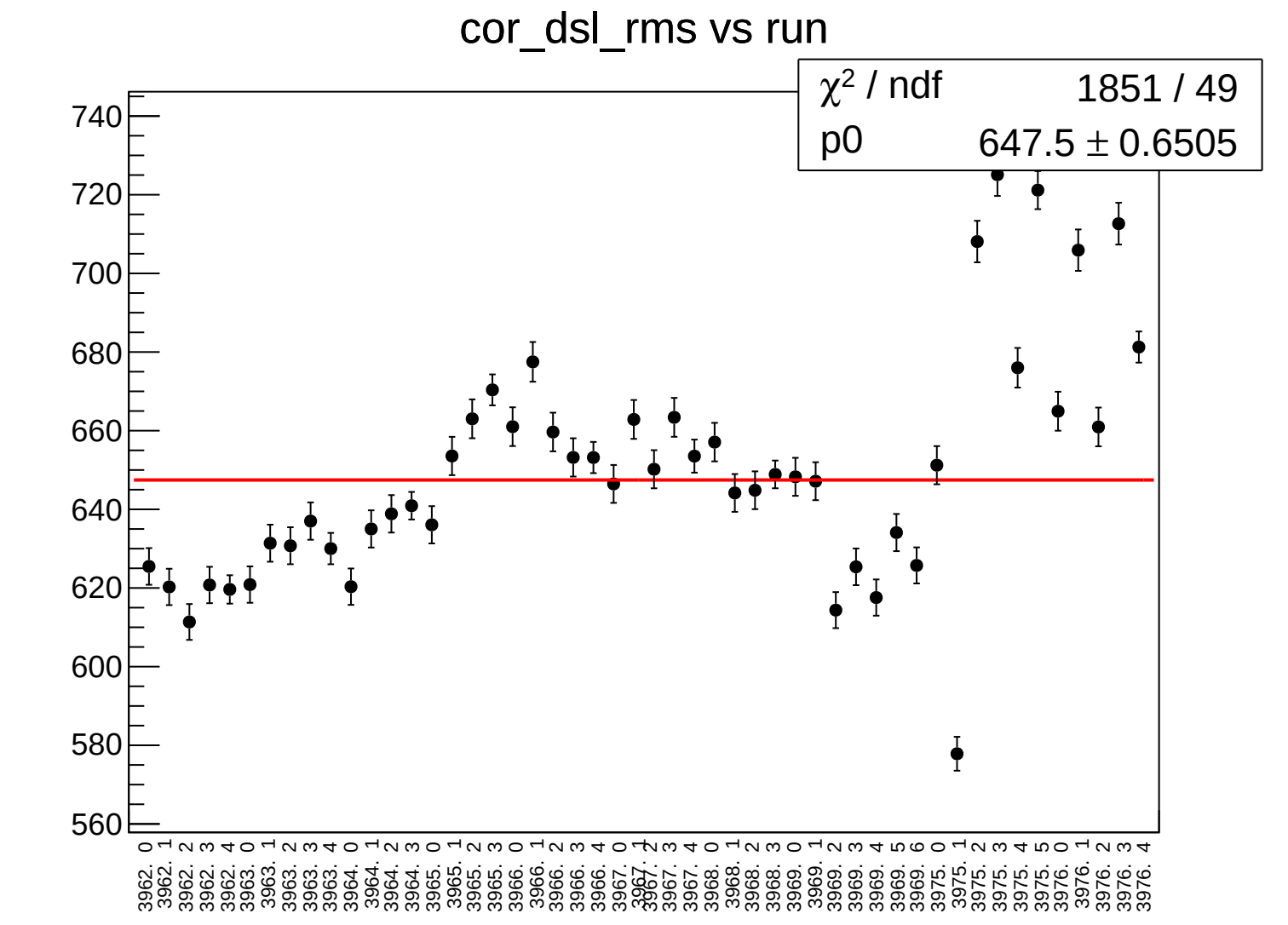

cor_usr_mean vs run
χ² / ndf 46.1 / 49
p0 1042 ± 795.9
pull
Entries 50
Mean 257.9
Std Dev 237.3

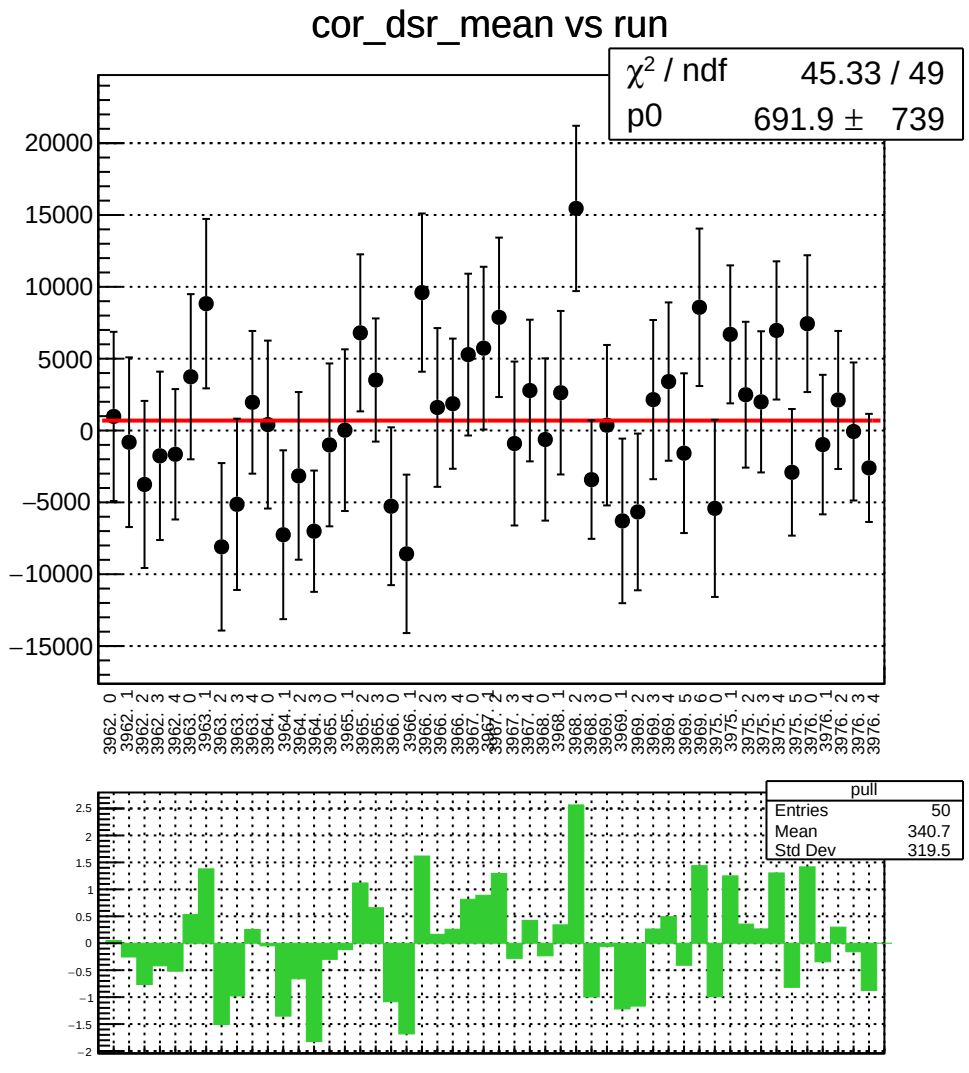

pull1D
Entries 50
Mean 0.009447
Std Dev 0.9601

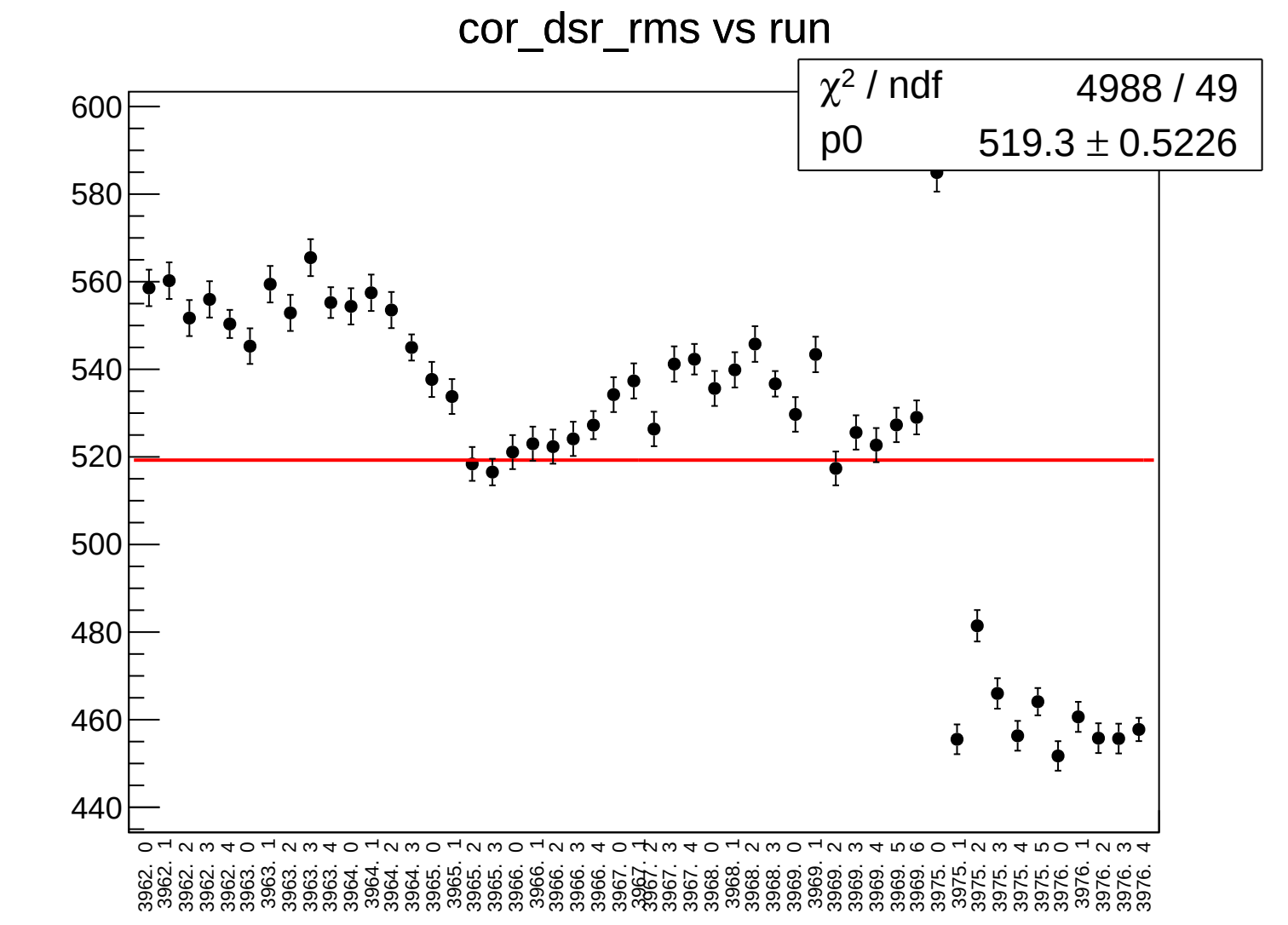

cor_usr_rms vs run
χ² / ndf 4950 / 49
p0 559.2 ± 0.5628
640
620
600
580
560
540
520
500
480
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

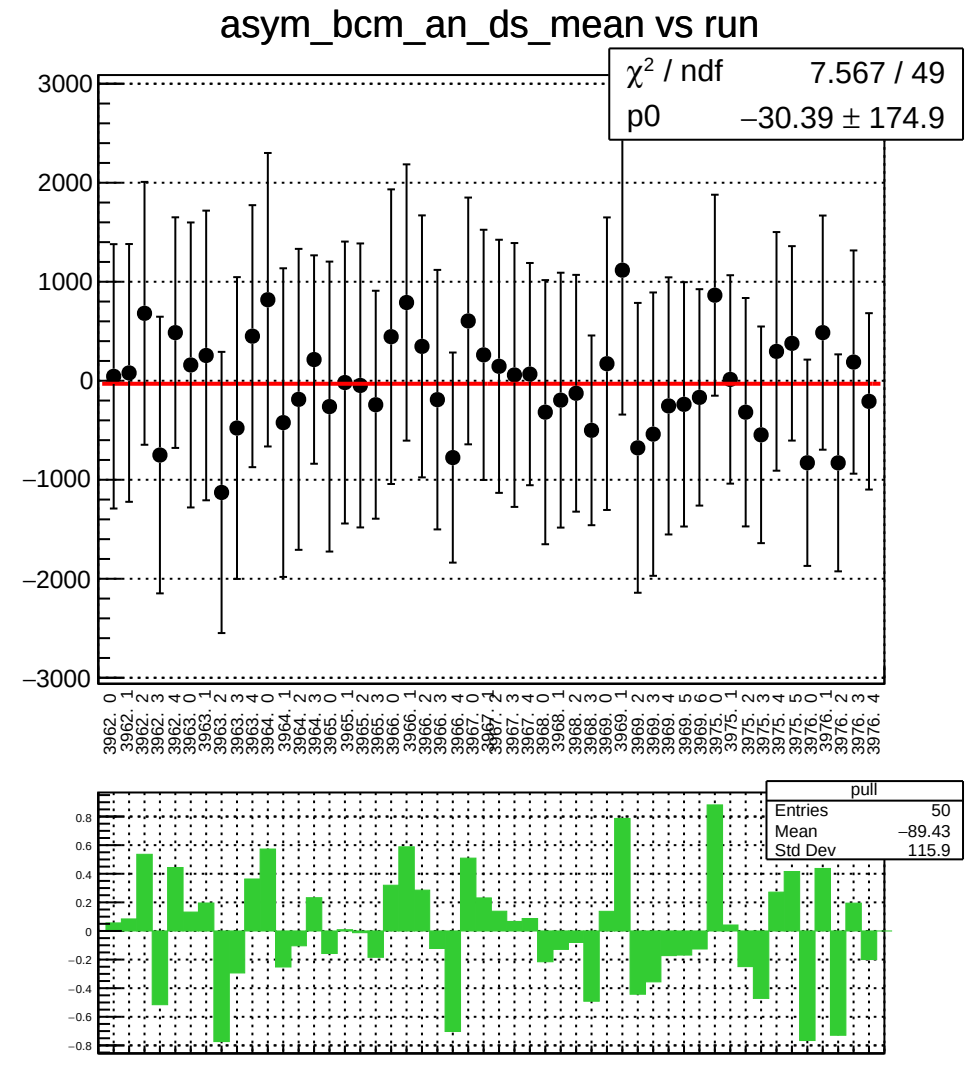

cor_dsl_mean vs run
χ² / ndf 39.05 / 49
p0 −2363 ± 920
20000
10000
0
−10000
−20000
−30000
pull
Entries 50
Mean 157.9
Std Dev 137.7
2
1
0
−1
−2

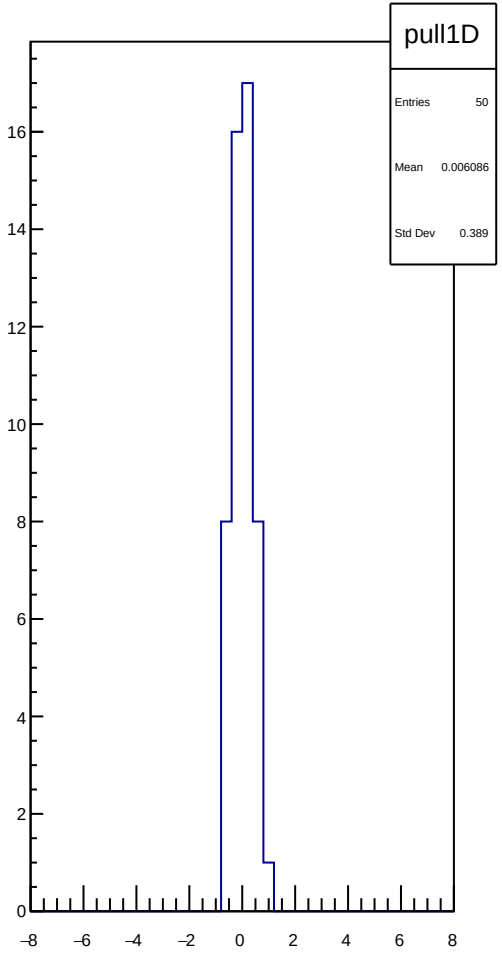

pull1D
Entries 50
Mean −0.01843
Std Dev 0.8836
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

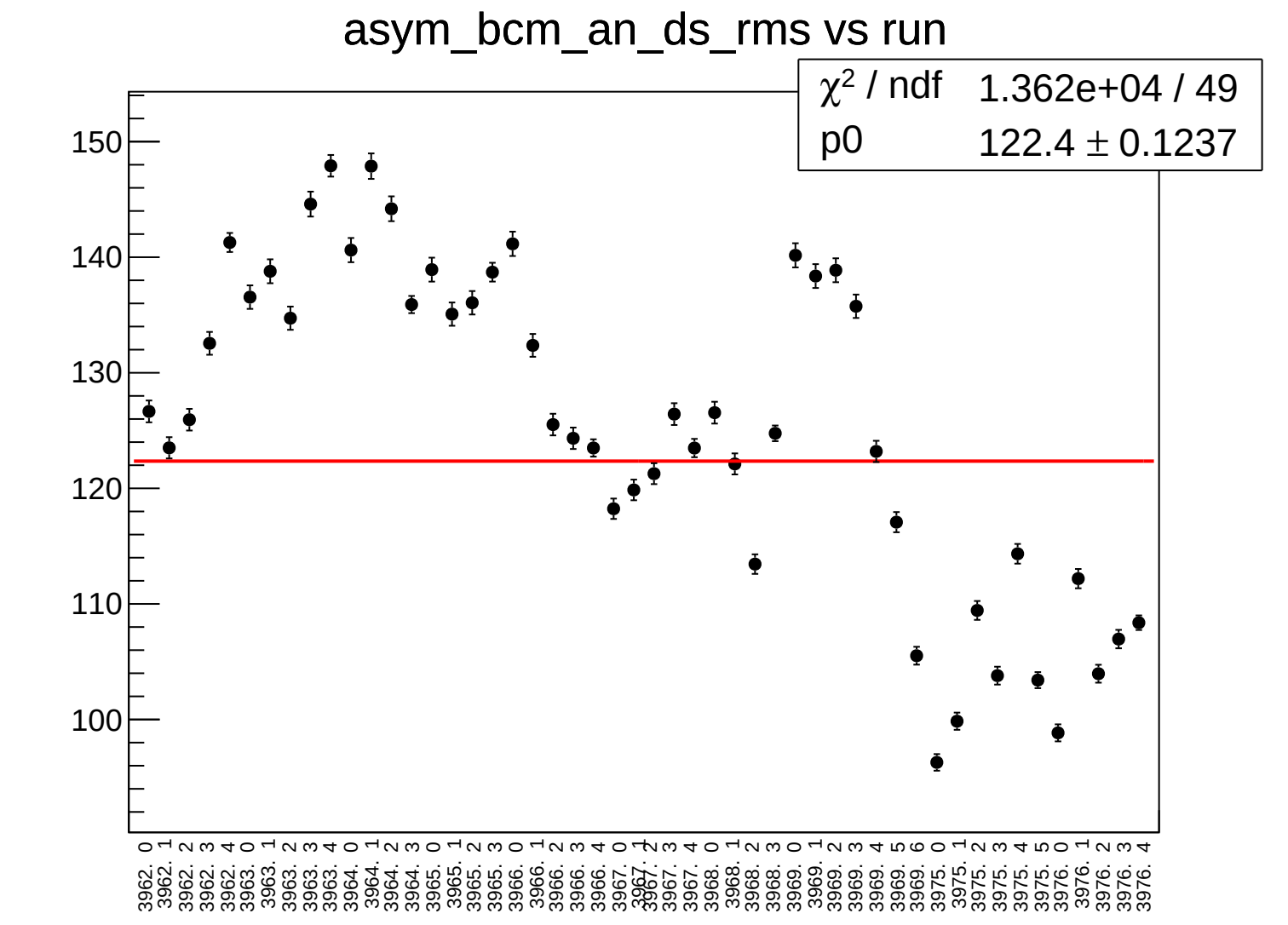

cor_dsl_rms vs run
χ² / ndf 1851 / 49
p0 647.5 ± 0.6505
740
720
700
680
660
640
620
600
580
560
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

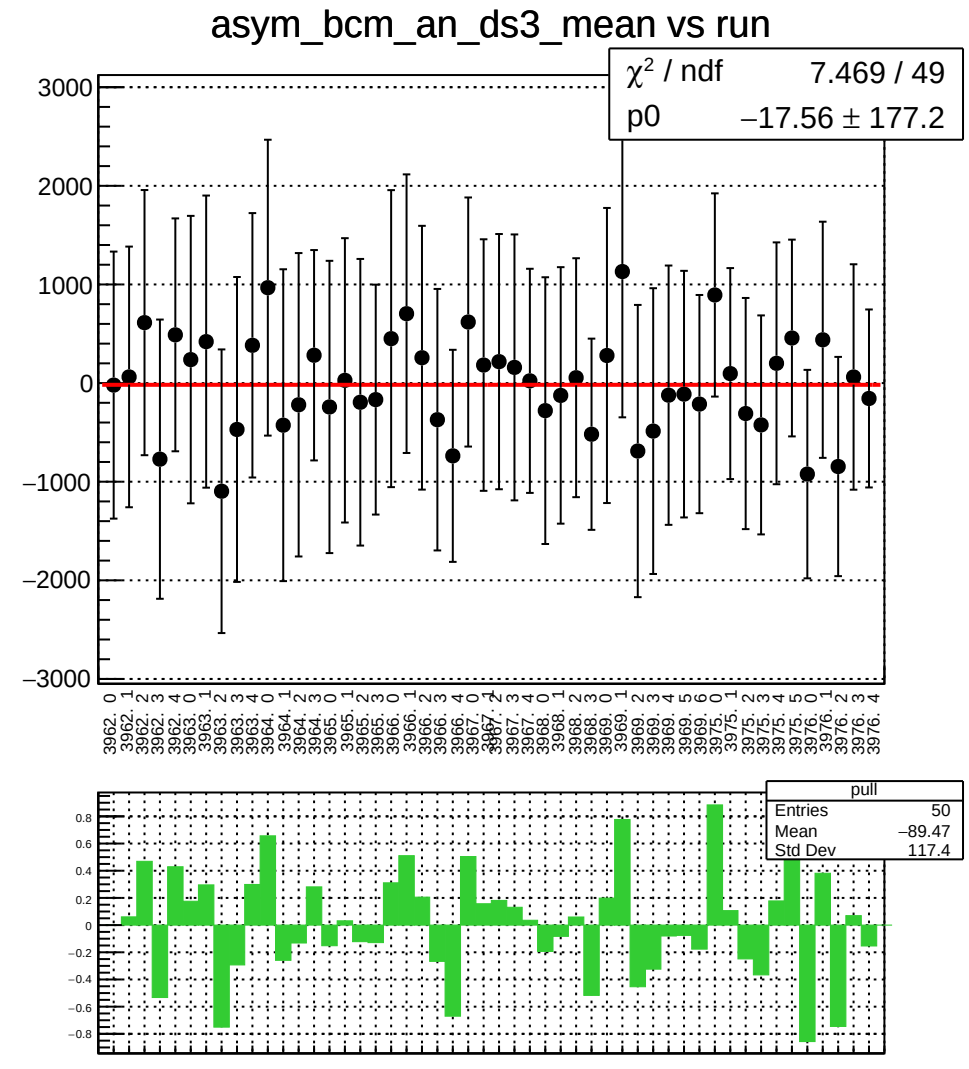

cor_dsr_mean vs run
χ² / ndf 45.33 / 49
p0 691.9 ± 739
20000
15000
10000
5000
0
−5000
−10000
−15000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 340.7
Std Dev 319.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.00797
Std Dev 0.9521
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

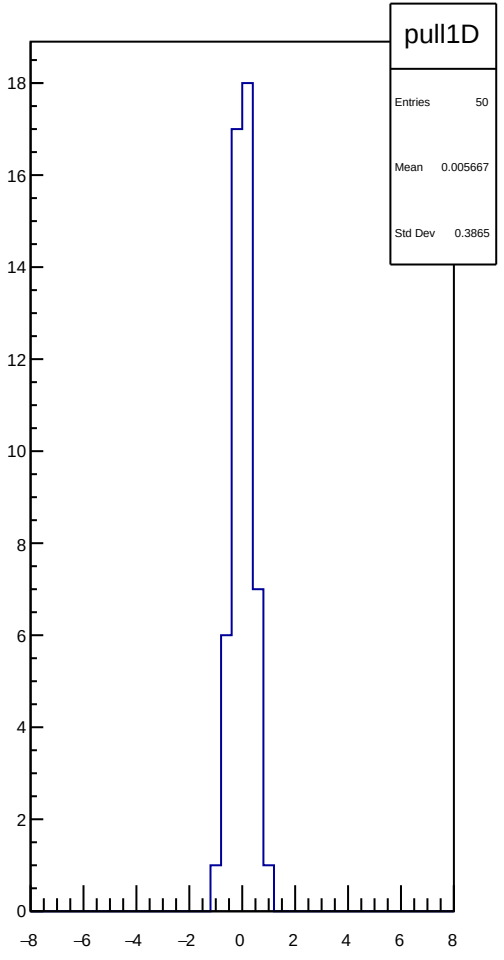

cor_dsr_rms vs run
χ² / ndf 4988 / 49
p0 519.3 ± 0.5226
600
580
560
540
520
500
480
460
440
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

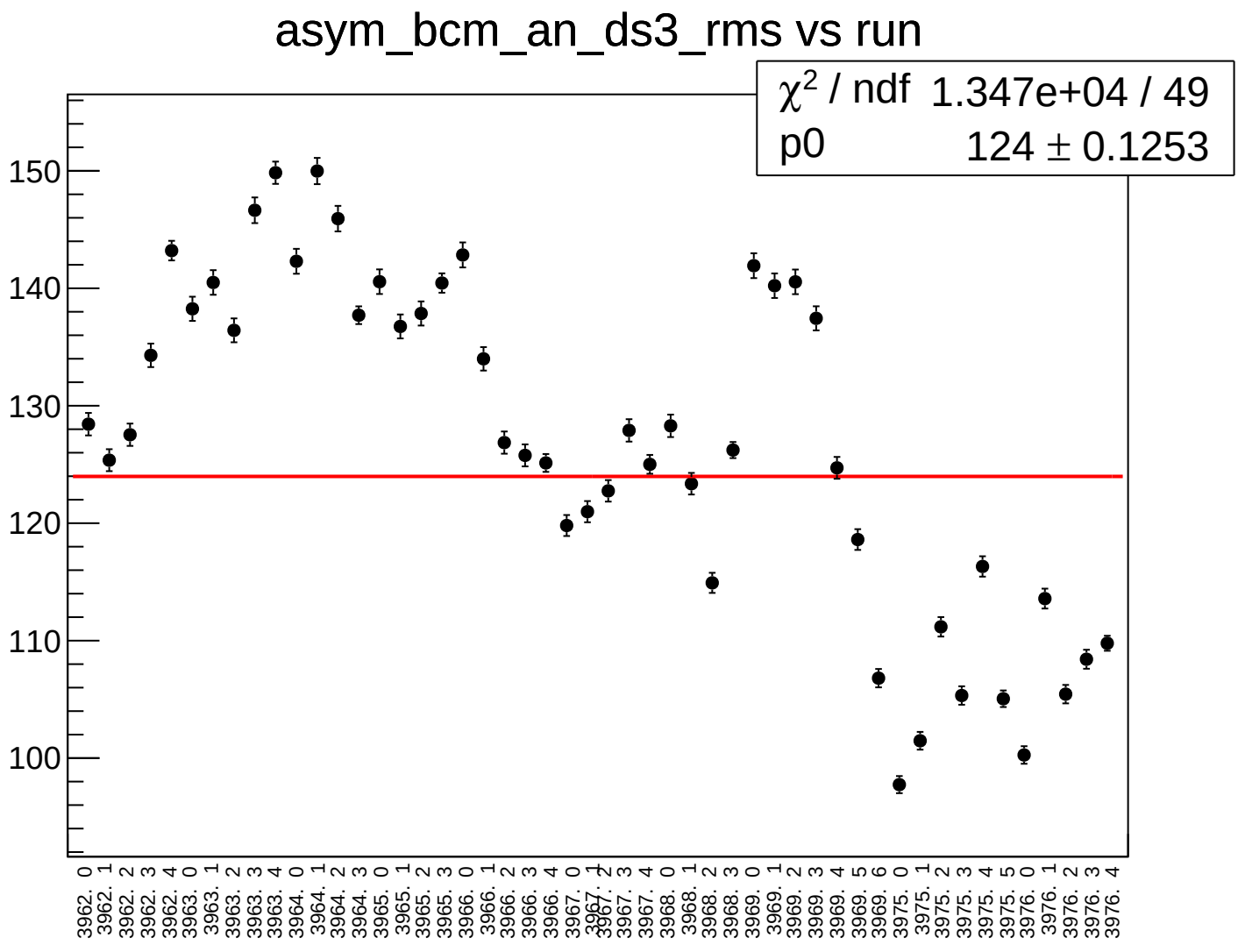

asym_bcm_an_ds_mean vs run
χ² / ndf 7.567 / 49
p0 −30.39 ± 174.9
pull
Entries 50
Mean −89.43
Std Dev 115.9

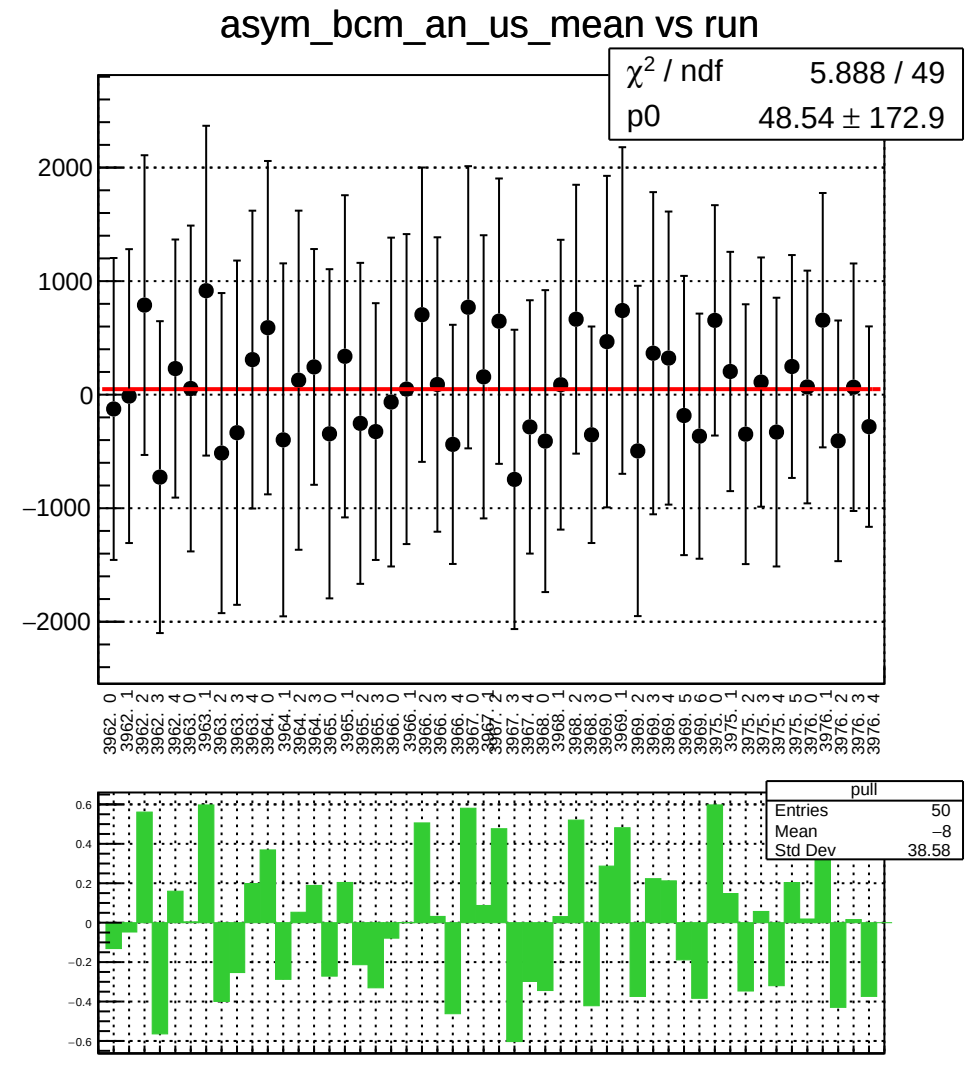

pull1D
Entries 50
Mean 0.006086
Std Dev 0.389

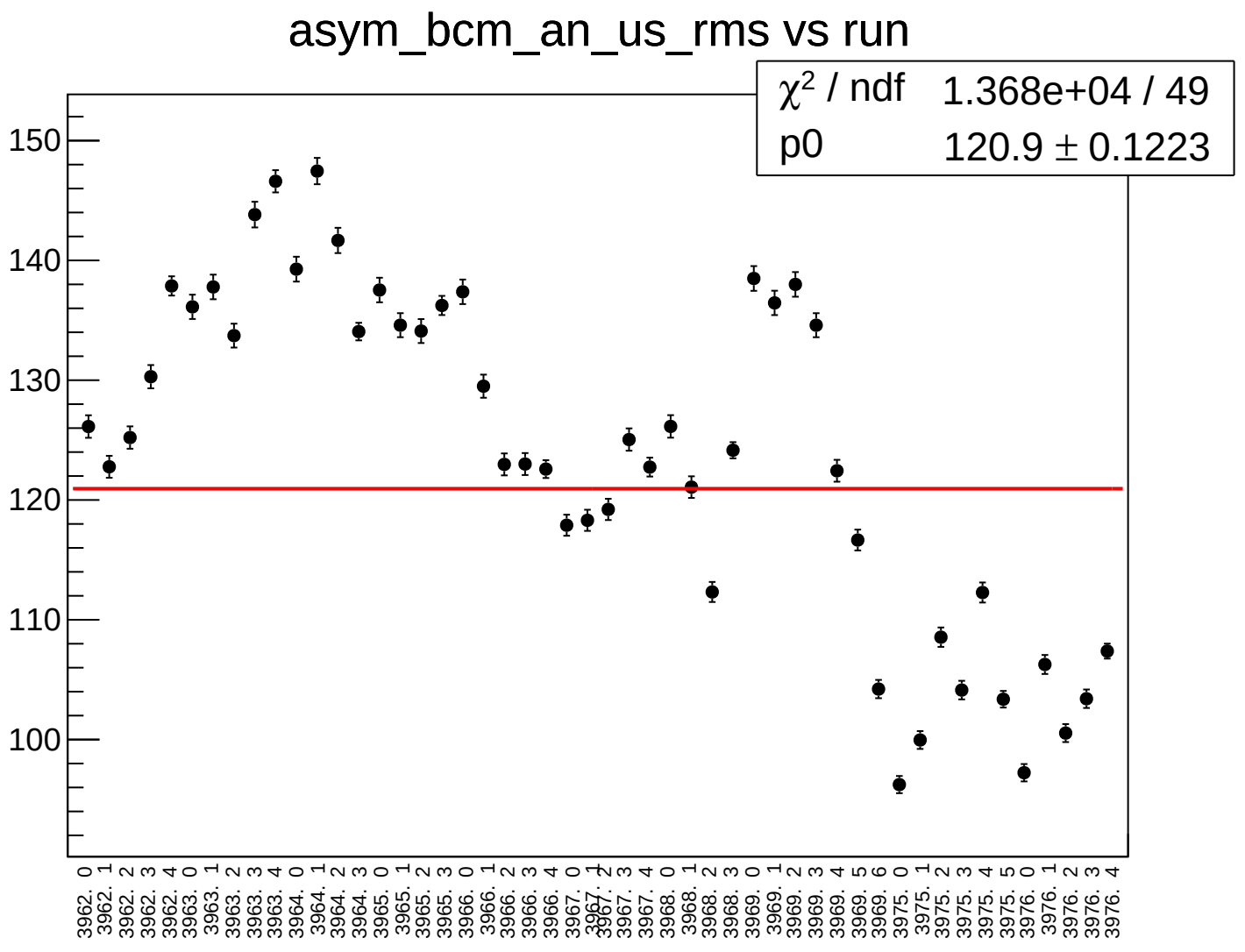

asym_bcm_an_ds_rms vs run
χ² / ndf 1.362e+04 / 49
p0 122.4 ± 0.1237
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

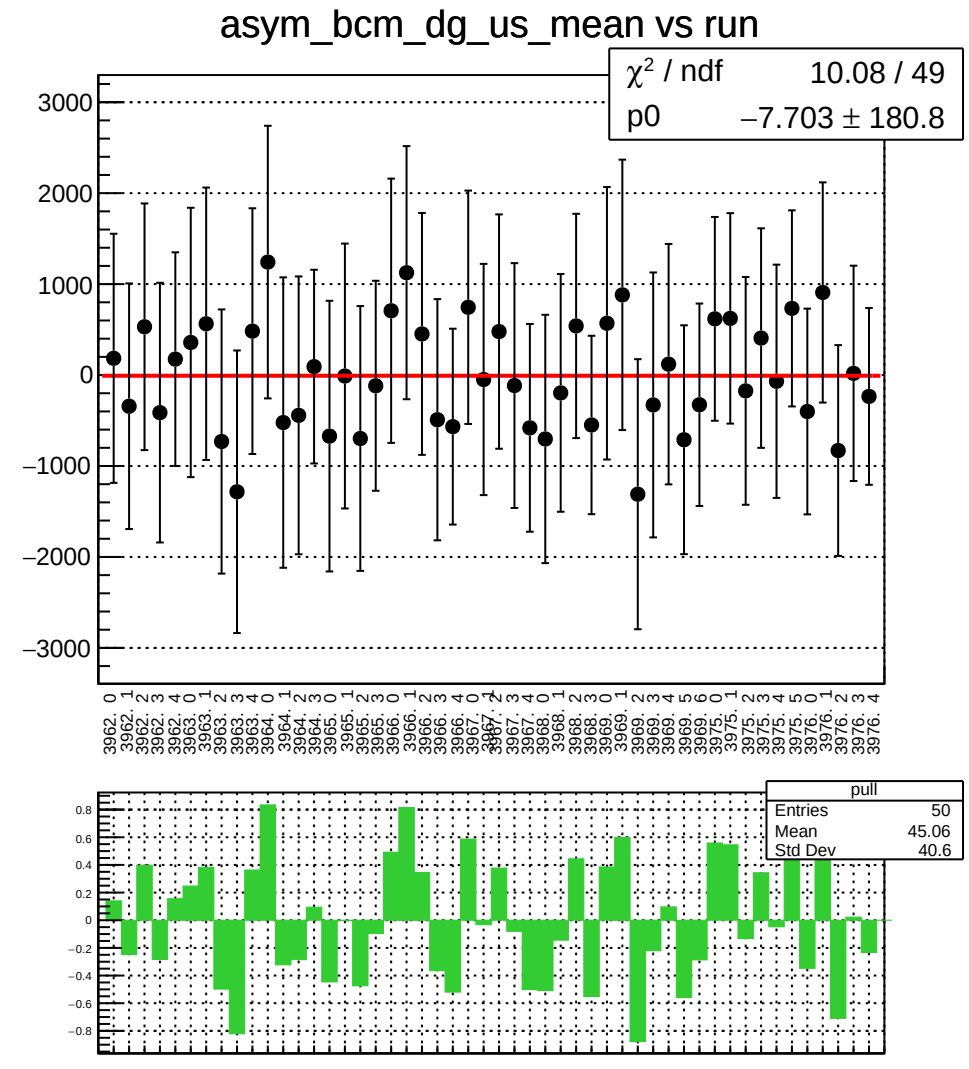

asym_bcm_an_ds3_mean vs run
χ² / ndf 7.469 / 49
p0 −17.56 ± 177.2
pull
Entries 50
Mean −89.47
Std Dev 117.4

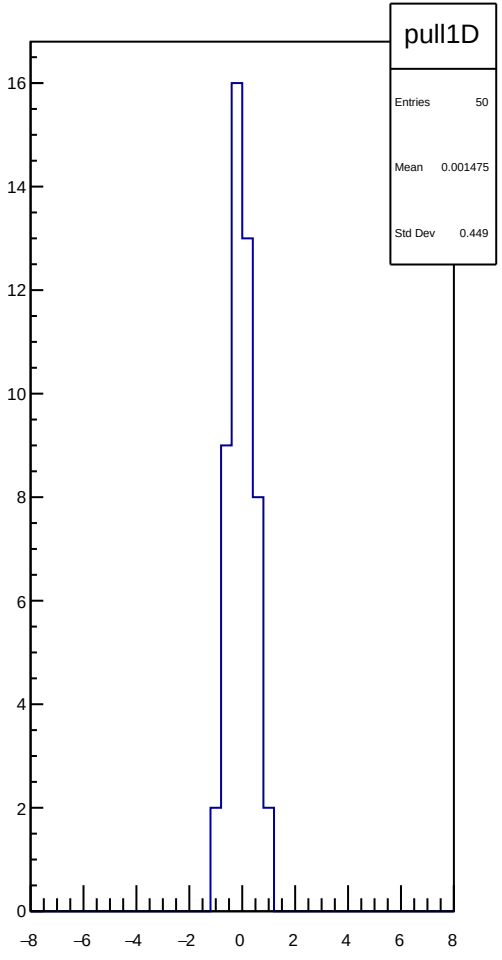

pull1D
Entries 50
Mean 0.005667
Std Dev 0.3865

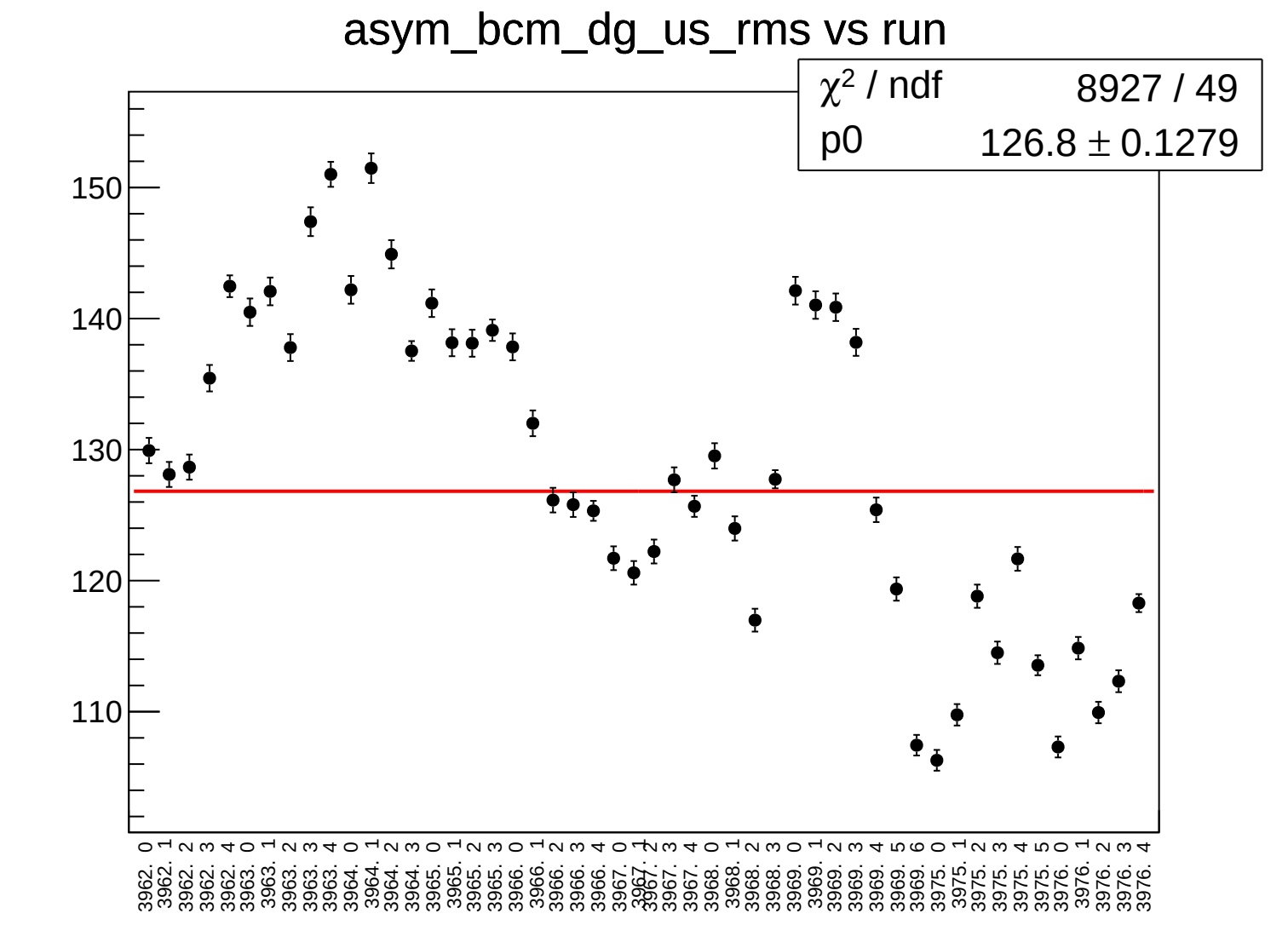

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.347e+04 / 49
p0 124 ± 0.1253
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

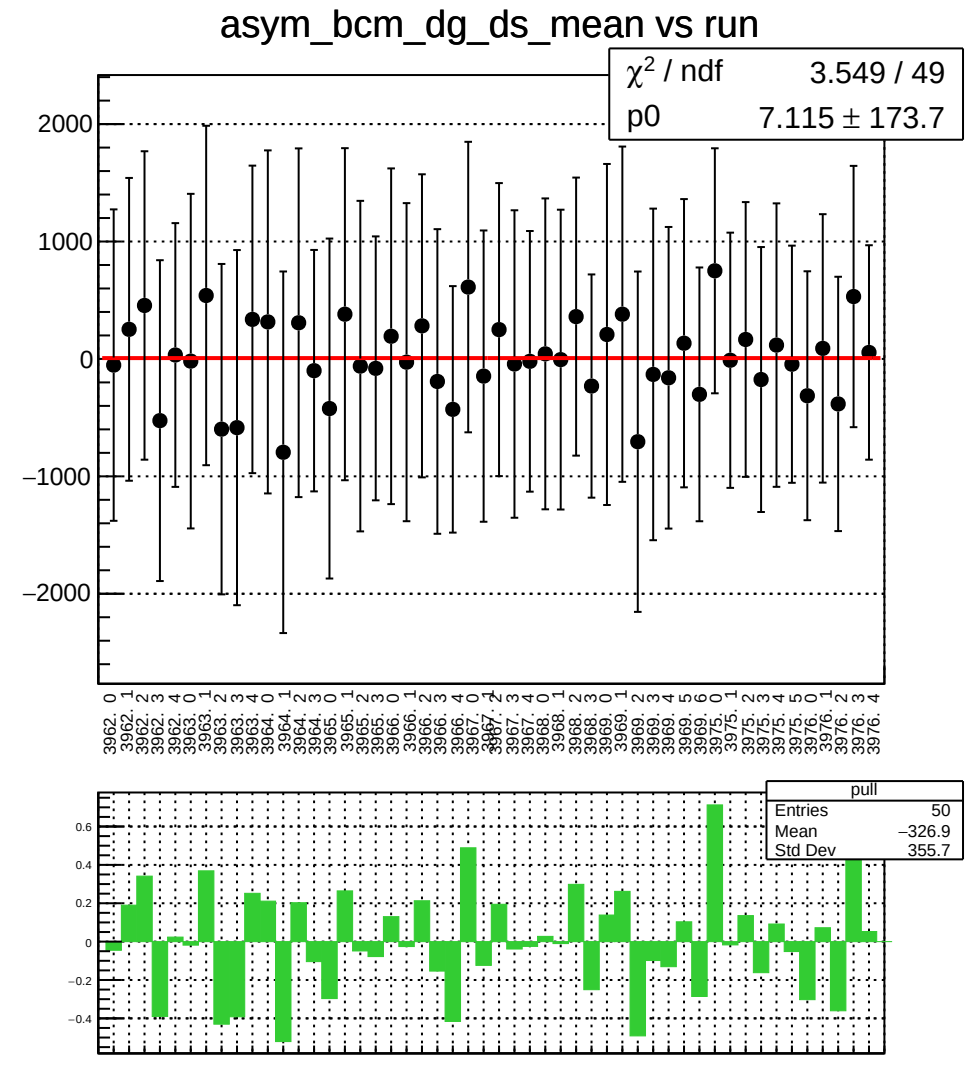

asym_bcm_an_us_mean vs run
χ² / ndf 5.888 / 49
p0 48.54 ± 172.9
2000
1000
0
−1000
−2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −8
Std Dev 38.58
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 50
Mean 0.004711
Std Dev 0.3431
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

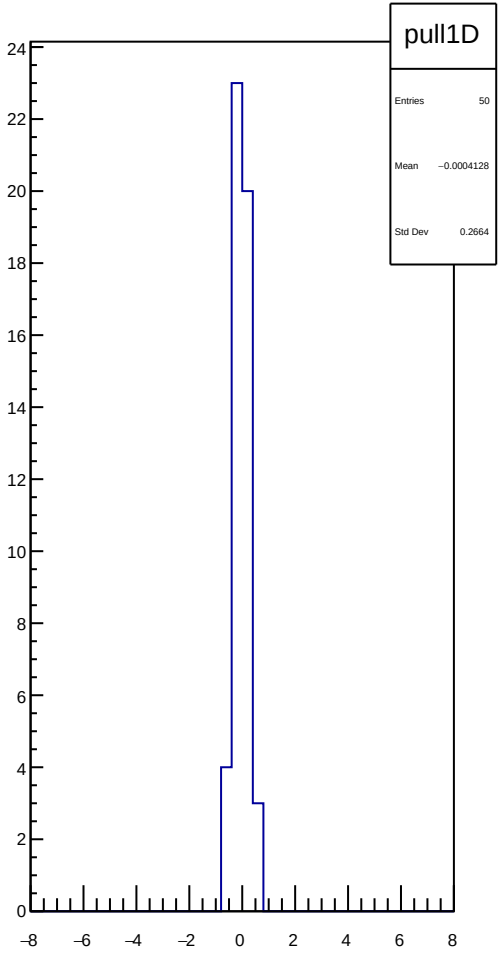

asym_bcm_an_us_rms vs run
χ² / ndf 1.368e+04 / 49
p0 120.9 ± 0.1223
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

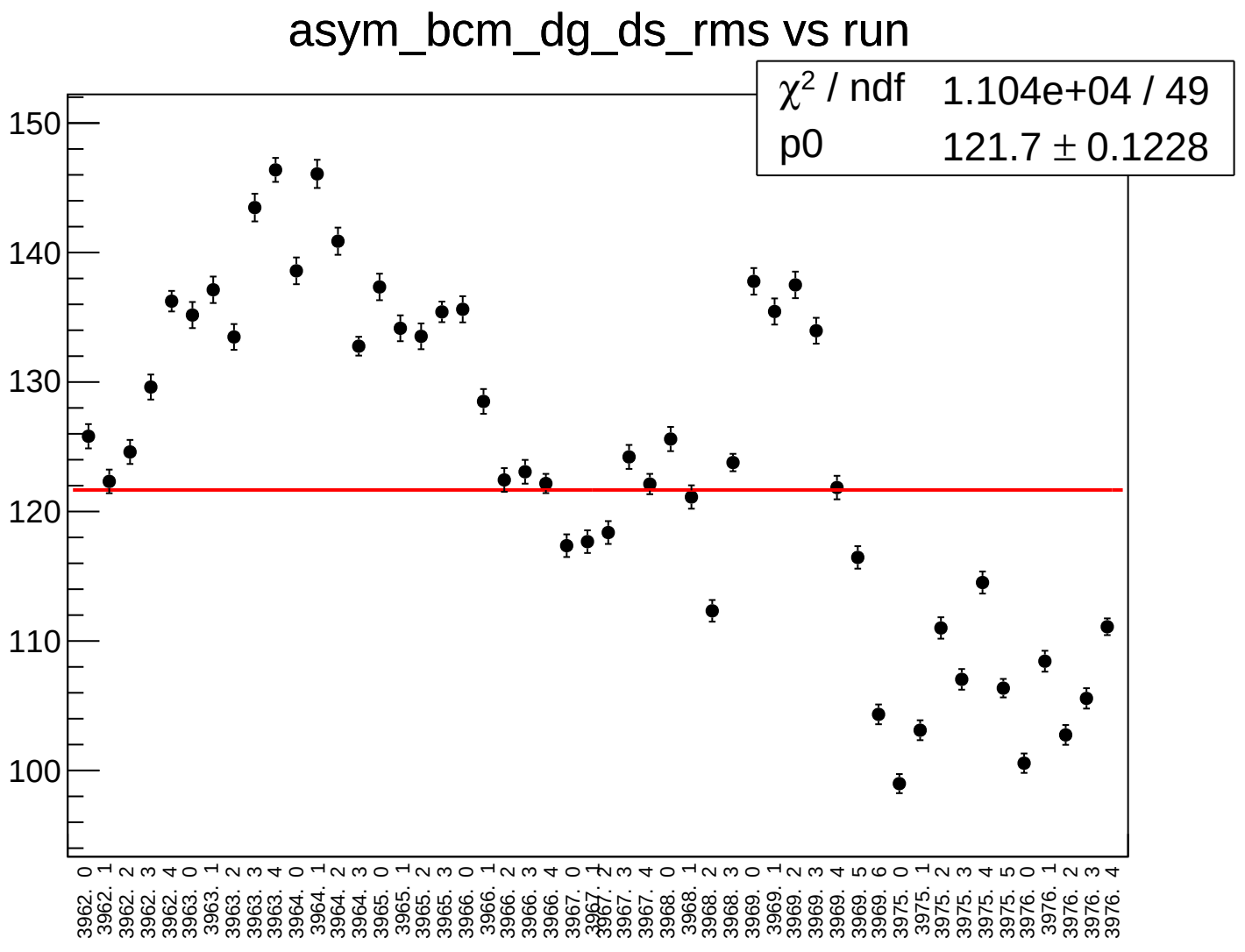

asym_bcm_dg_us_mean vs run
χ² / ndf 10.08 / 49
p0 −7.703 ± 180.8
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 50
Mean 45.06
Std Dev 40.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 50
Mean 0.001475
Std Dev 0.449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_rms vs run
χ² / ndf 8927 / 49
p0 126.8 ± 0.1279
150
140
130
120
110
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_dg_ds_mean vs run
χ^2 / ndf 3.549 / 49
p0 7.115 ± 173.7
2000
1000
0
−1000
−2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −326.9
Std Dev 355.7
0.6
0.4
0.2
0
−0.2
−0.4


pull1D
Entries 50
Mean −0.0004128
Std Dev 0.2664
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_rms vs run
χ² / ndf 1.104e+04 / 49
p0 121.7 ± 0.1228
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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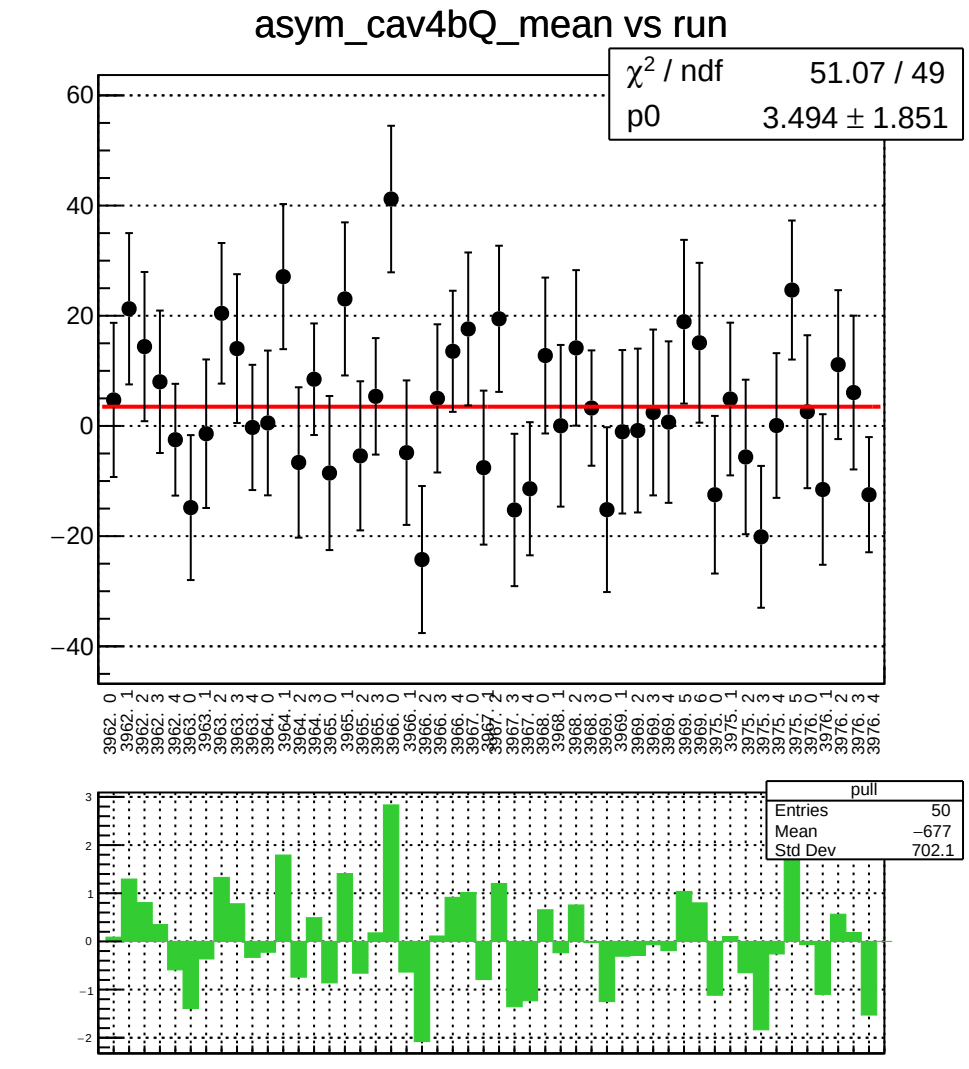
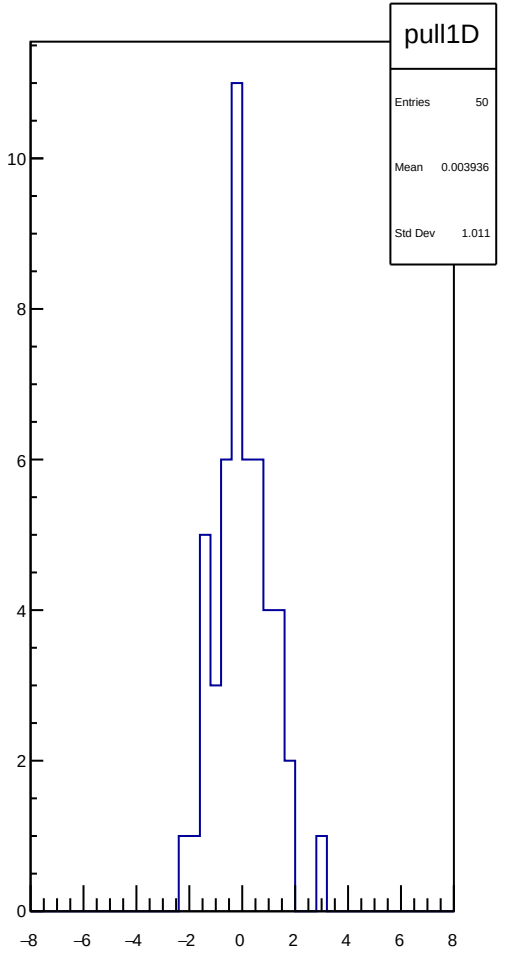
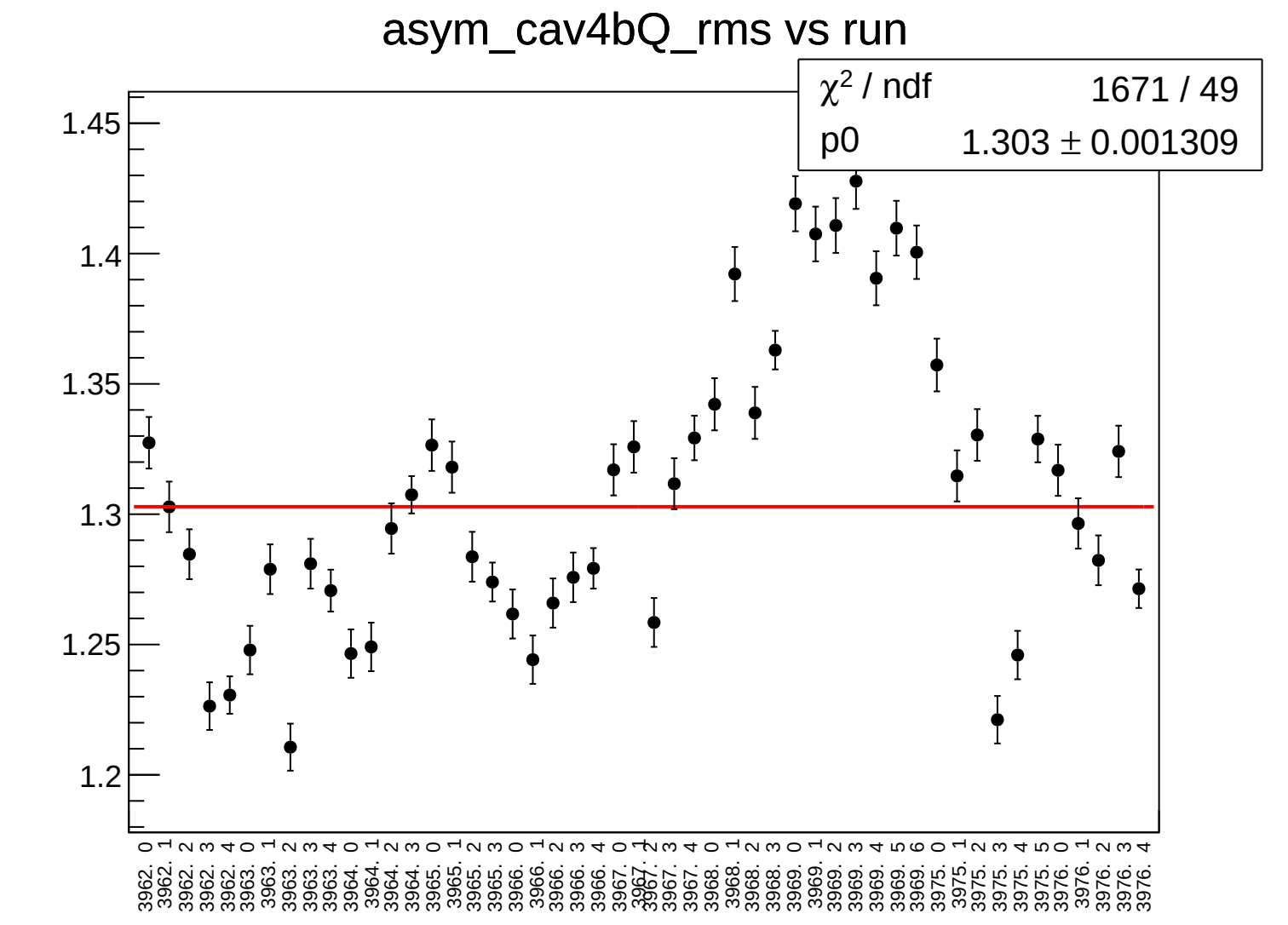
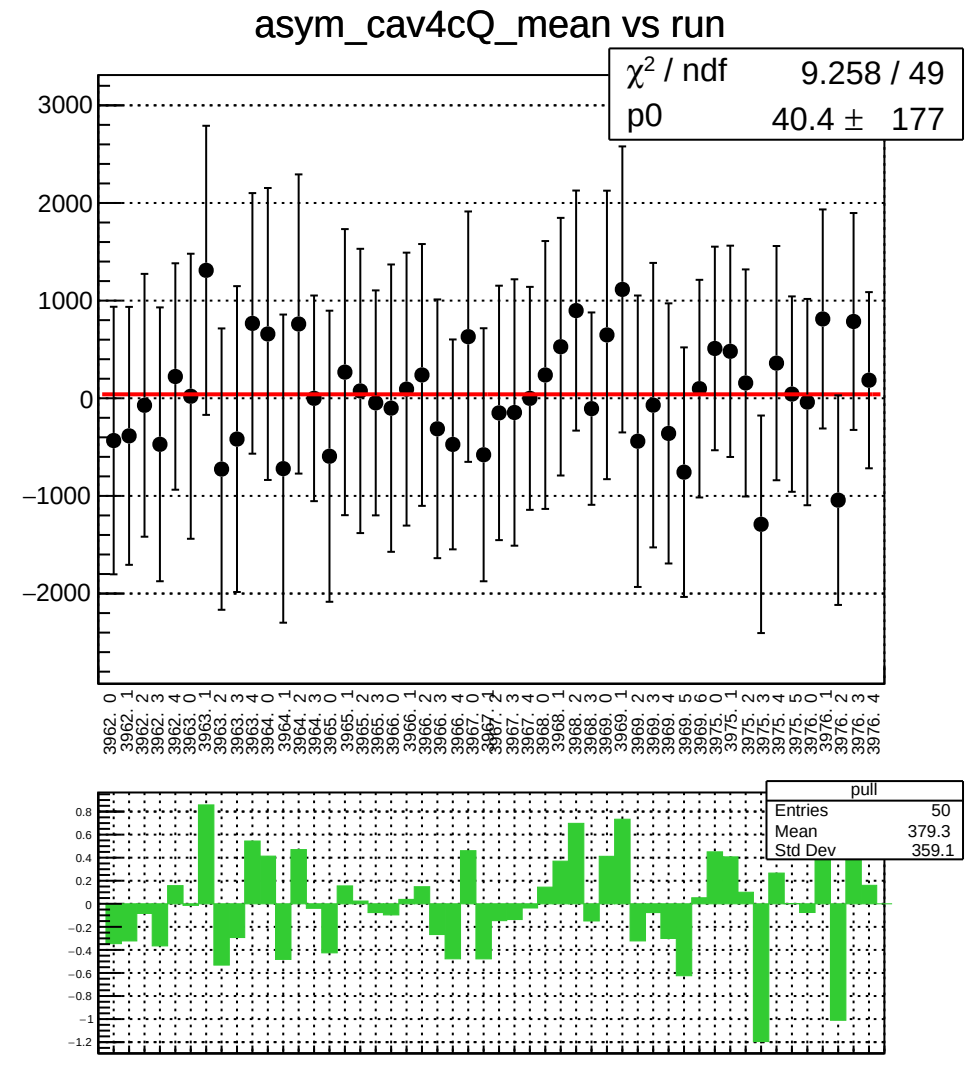
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_cav4bQ_mean vs run
χ² / ndf 51.07 / 49
p0 3.494 ± 1.851
60
40
20
0
−20
−40
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −677
Std Dev 702.1
3
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.003936
Std Dev 1.011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4bQ_rms vs run
χ² / ndf 1671 / 49
p0 1.303 ± 0.001309
1.45
1.4
1.35
1.3
1.25
1.2
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_cav4cQ_mean vs run
χ² / ndf 9.258 / 49
p0 40.4 ± 177
3000
2000
1000
0
−1000
−2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
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3966. 2
3966. 3
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3967. 1
3967. 2
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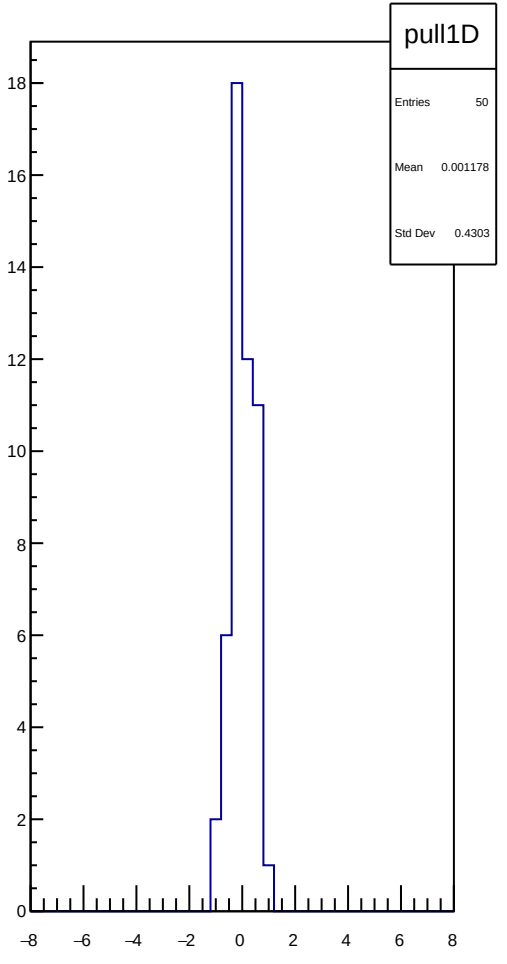
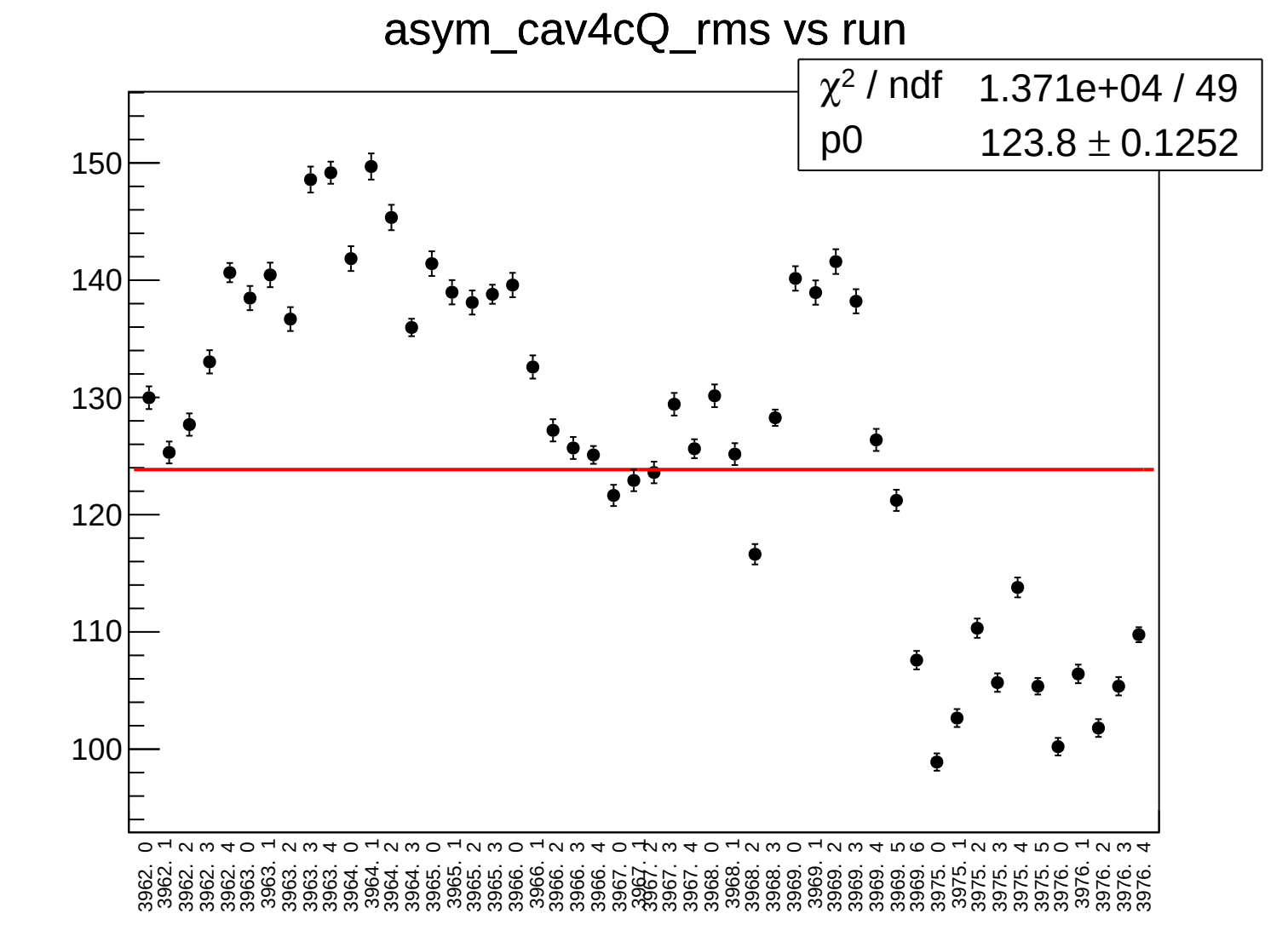
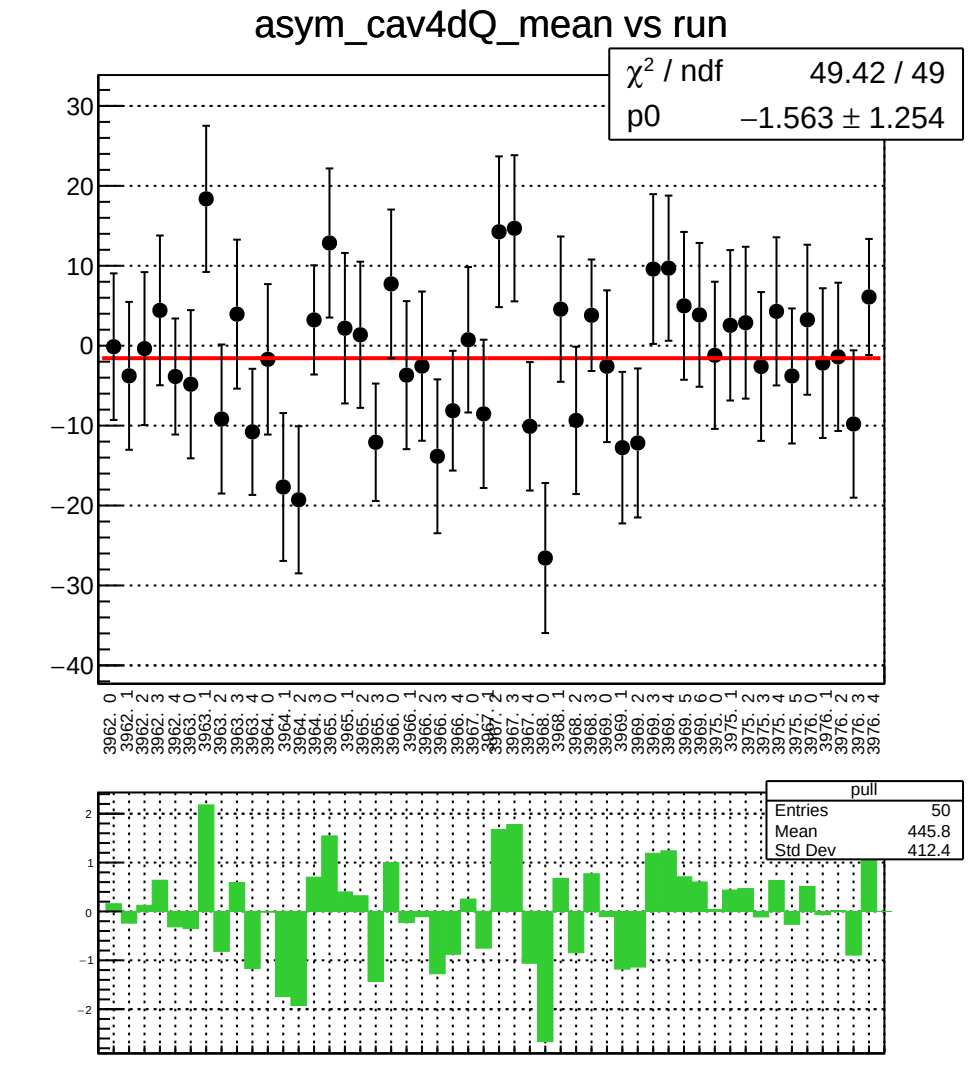
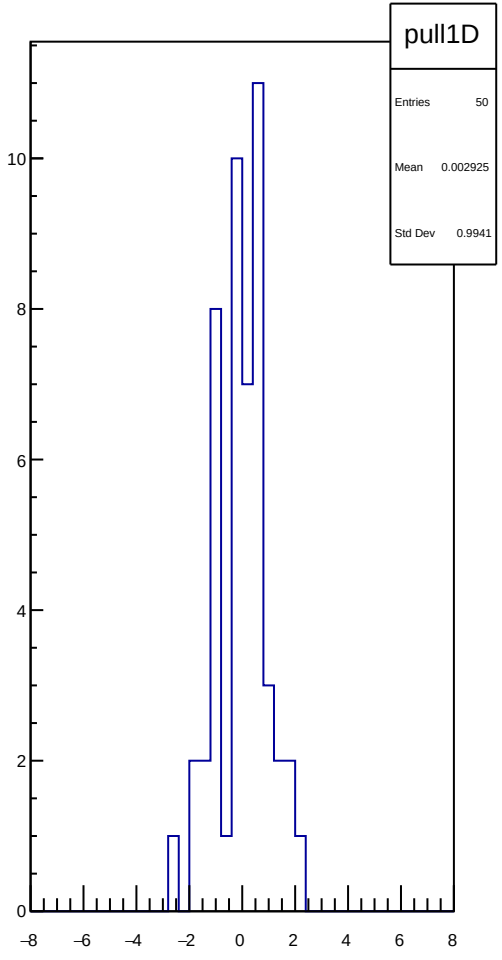
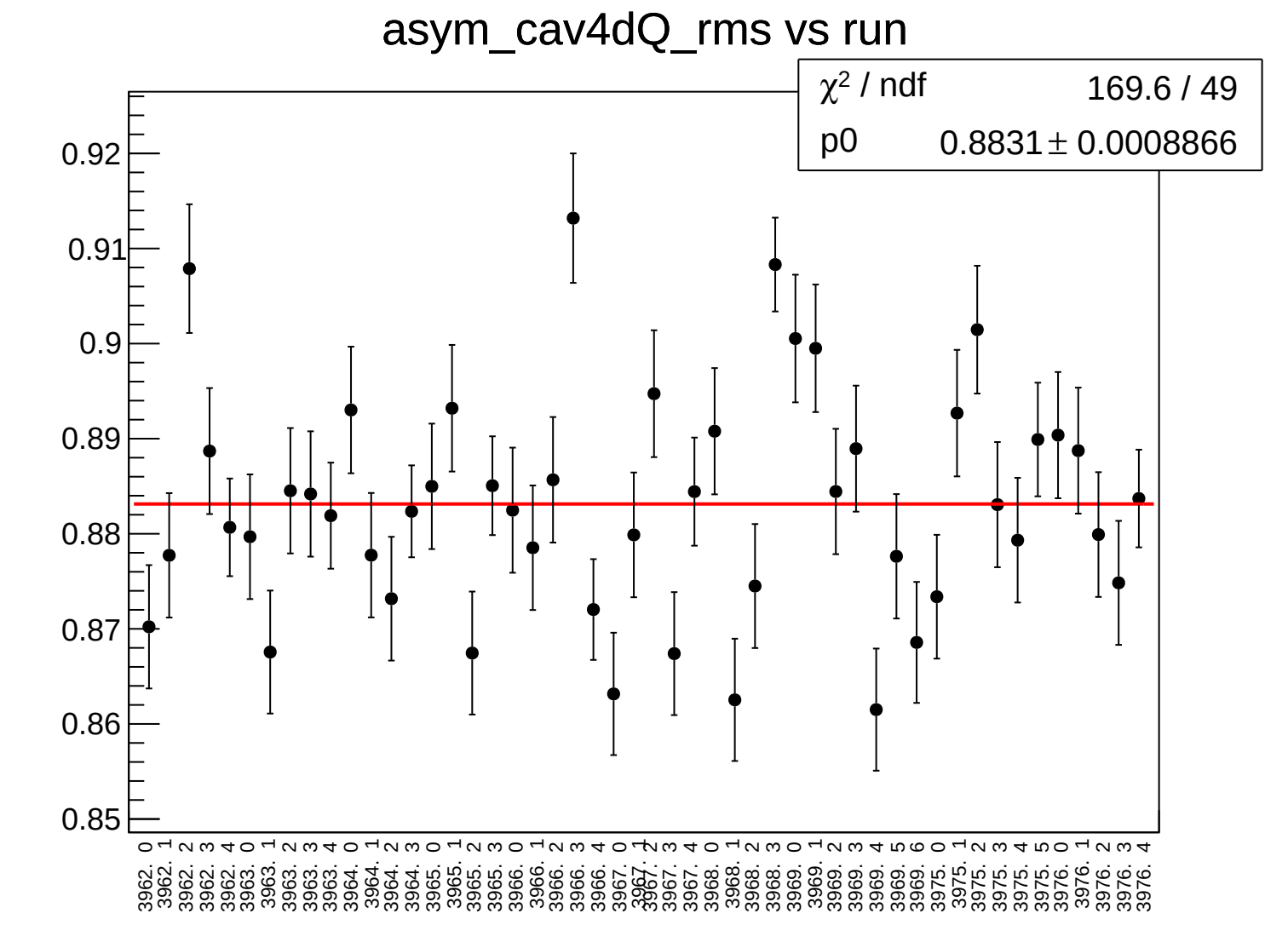
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 379.3
Std Dev 359.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2


pull1D
Entries 50
Mean 0.001178
Std Dev 0.4303
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4cQ_rms vs run
χ² / ndf 1.371e+04 / 49
p0 123.8 ± 0.1252
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_cav4dQ_mean vs run
χ² / ndf 49.42 / 49
p0 −1.563 ± 1.254
pull
Entries 50
Mean 445.8
Std Dev 412.4


pull1D
Entries 50
Mean 0.002925
Std Dev 0.9941


asym_cav4dQ_rms vs run
χ² / ndf 169.6 / 49
p0 0.8831 ± 0.0008866
0.92
0.91
0.9
0.89
0.88
0.87
0.86
0.85
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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3975. 3
3975. 4
3975. 5
3976. 0
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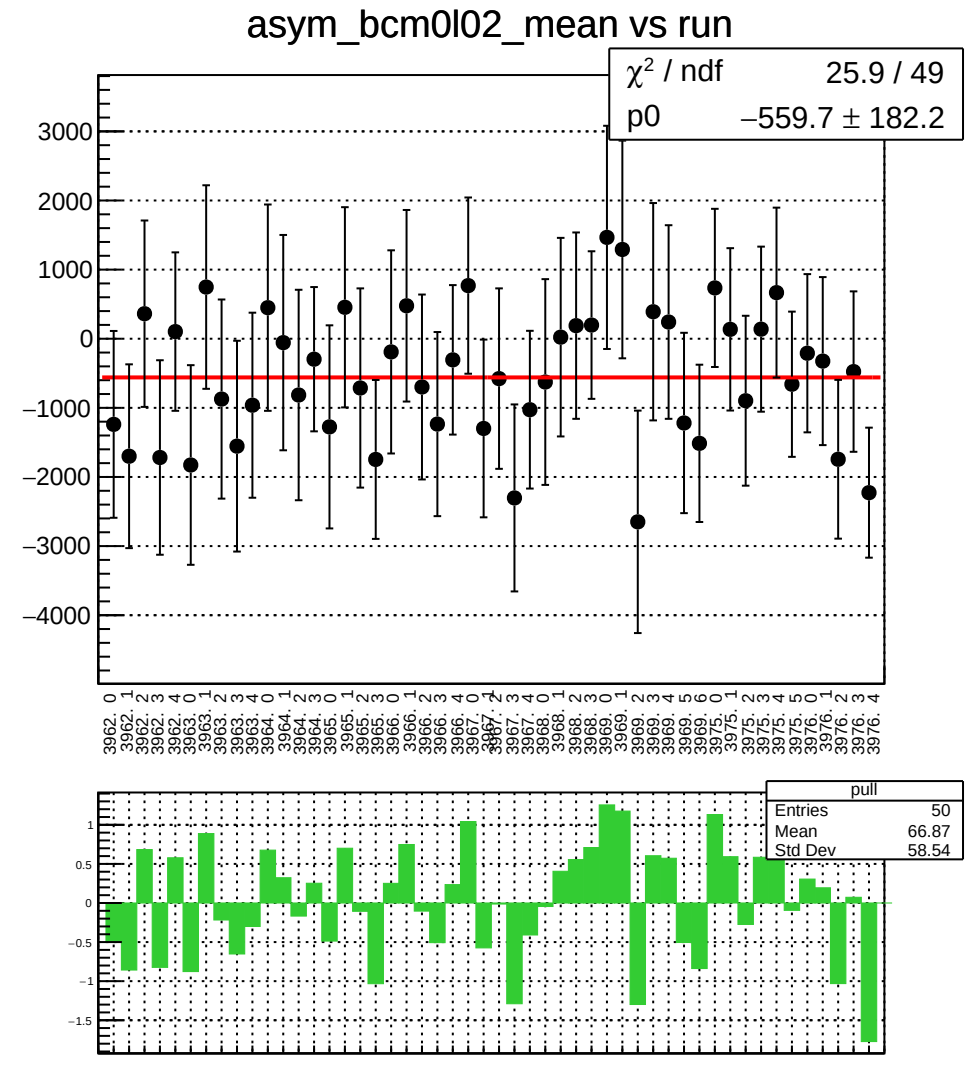
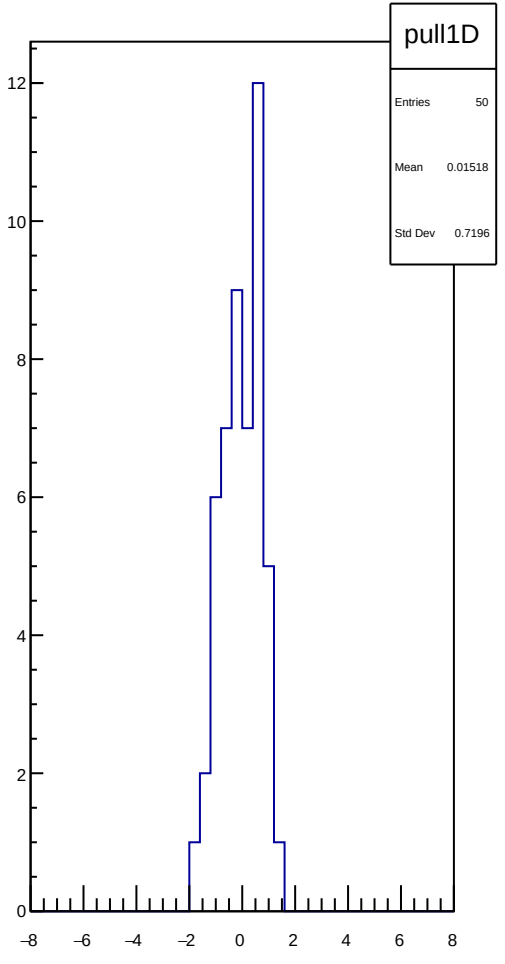
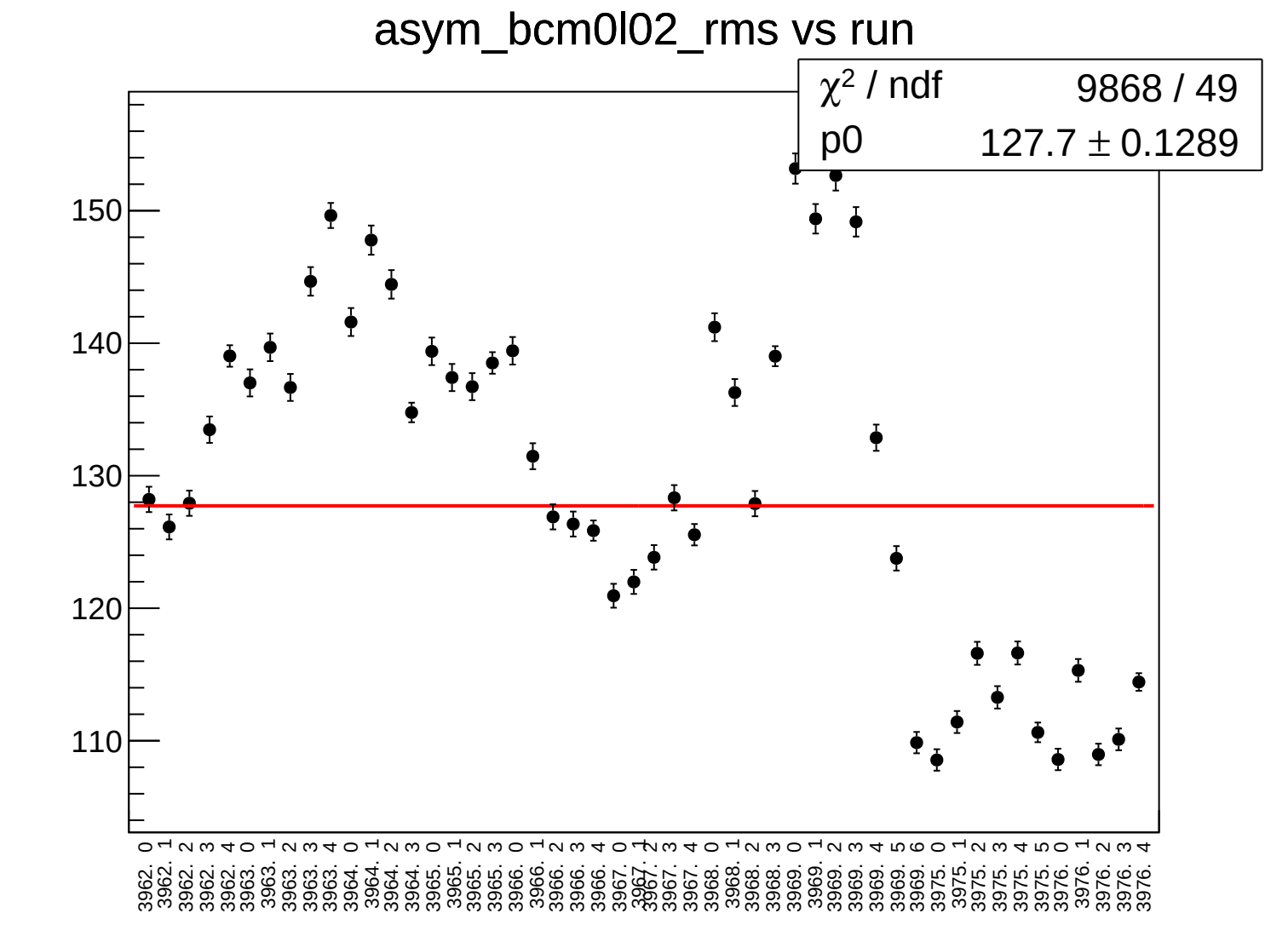
3976. 2
3976. 3
3976. 4


asym_bcm0l02_mean vs run
χ² / ndf 25.9 / 49
p0 −559.7 ± 182.2
pull
Entries 50
Mean 66.87
Std Dev 58.54


pull1D
Entries 50
Mean 0.01518
Std Dev 0.7196


asym_bcm0l02_rms vs run
χ² / ndf 9868 / 49
p0 127.7 ± 0.1289
150
140
130
120
110
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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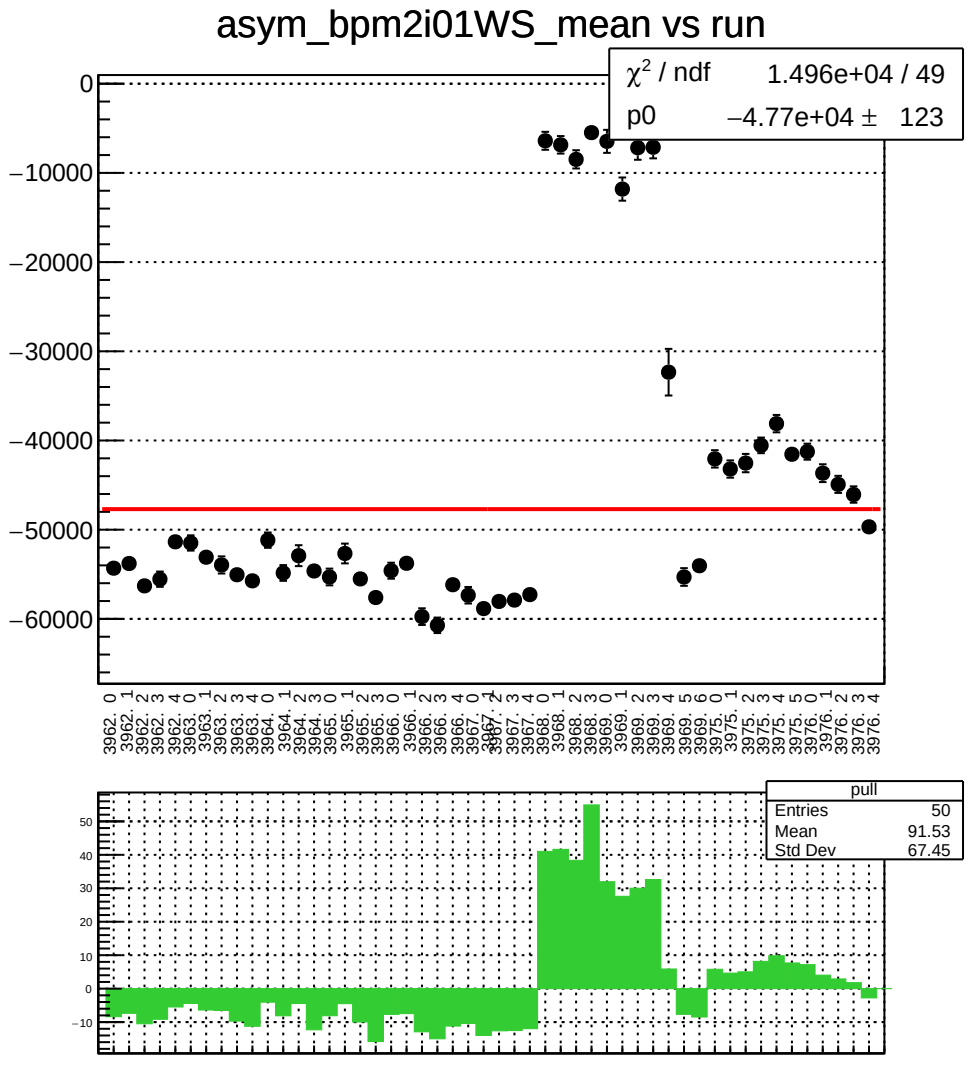
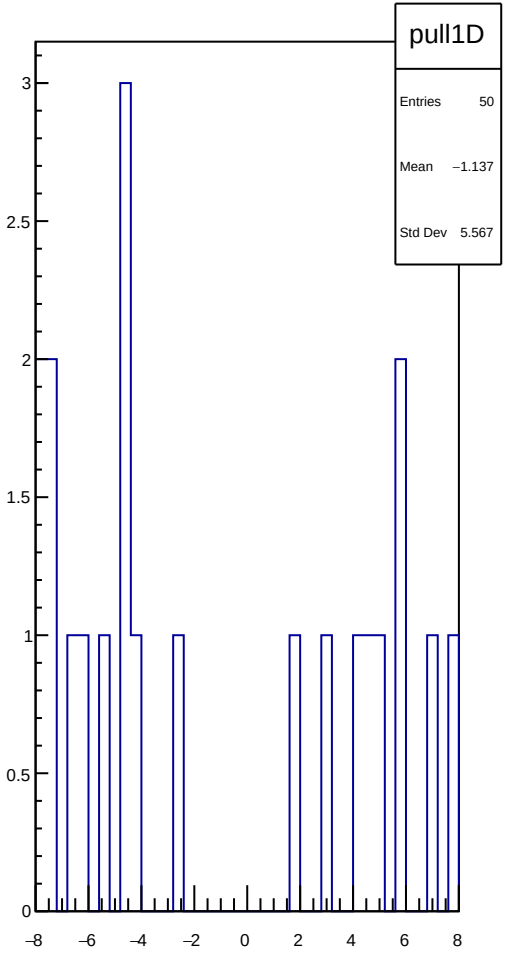
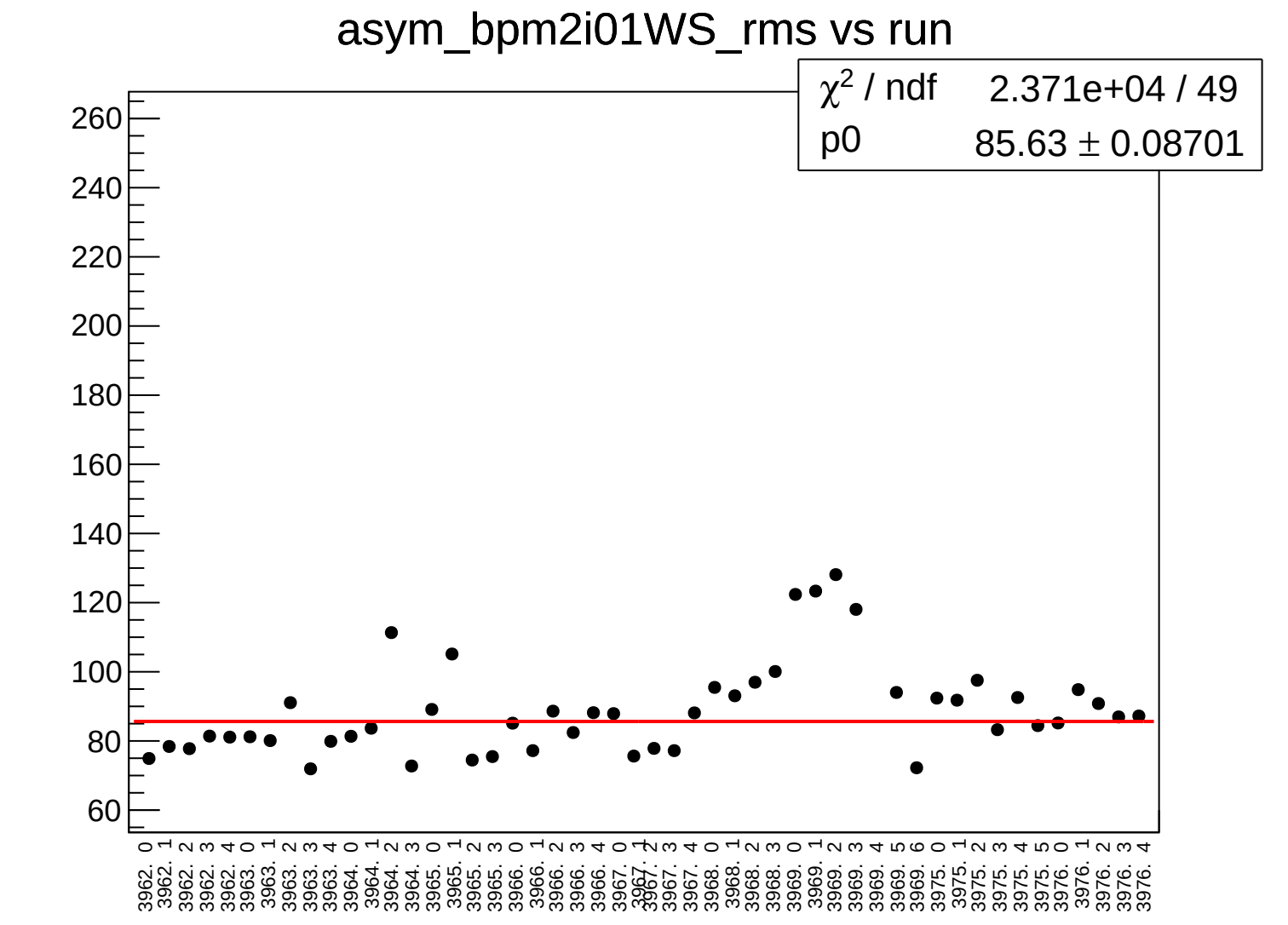
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bpm2i01WS_mean vs run
χ² / ndf 1.496e+04 / 49
p0 −4.77e+04 ± 123
pull
Entries 50
Mean 91.53
Std Dev 67.45


pull1D
Entries 50
Mean −1.137
Std Dev 5.567


asym_bpm2i01WS_rms vs run
χ² / ndf 2.371e+04 / 49
p0 85.63 ± 0.08701
260
240
220
200
180
160
140
120
100
80
60
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
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3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
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3967. 4
3968. 0
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3969. 0
3969. 1
3969. 2
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3969. 4
3969. 5
3969. 6
3975. 0
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3975. 3
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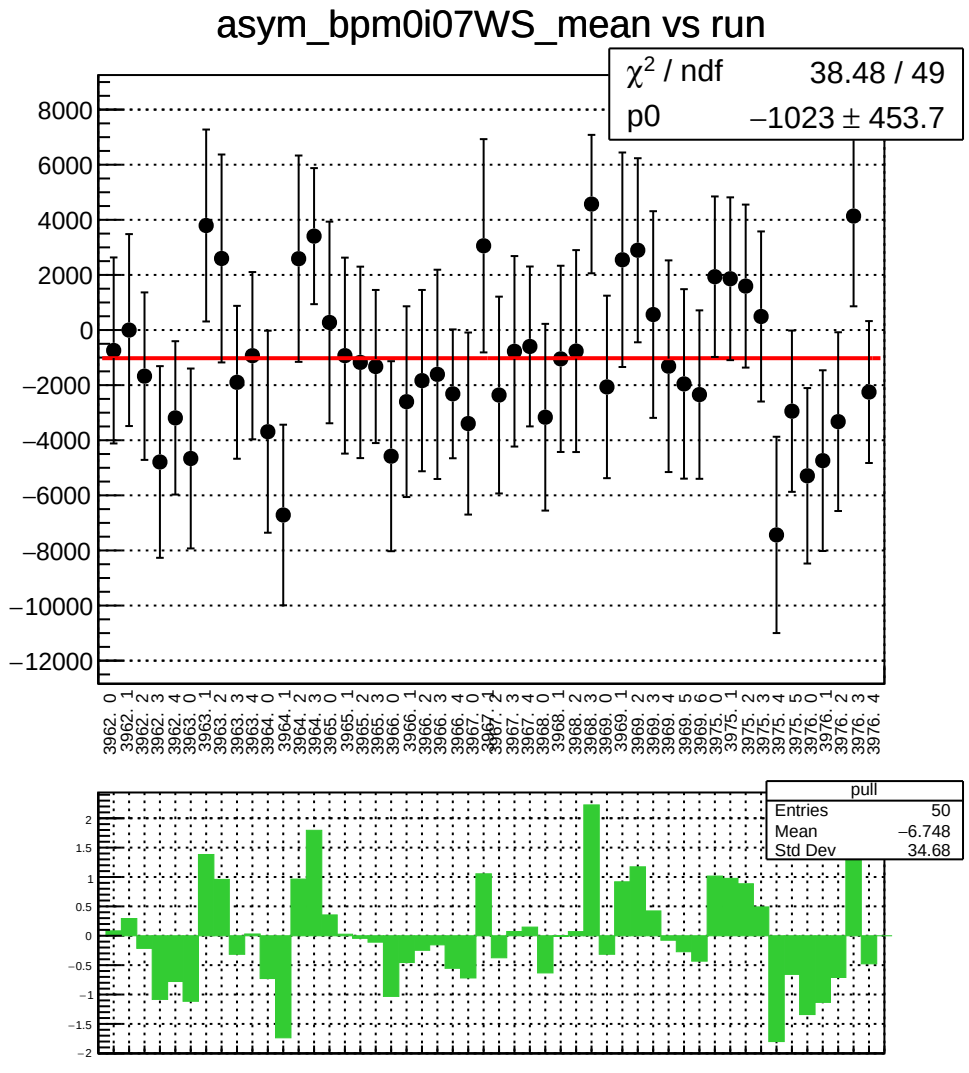
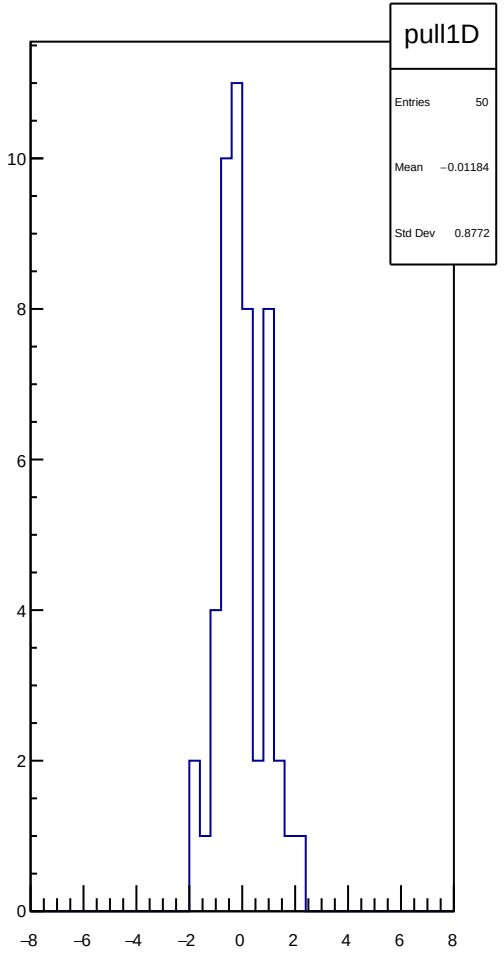
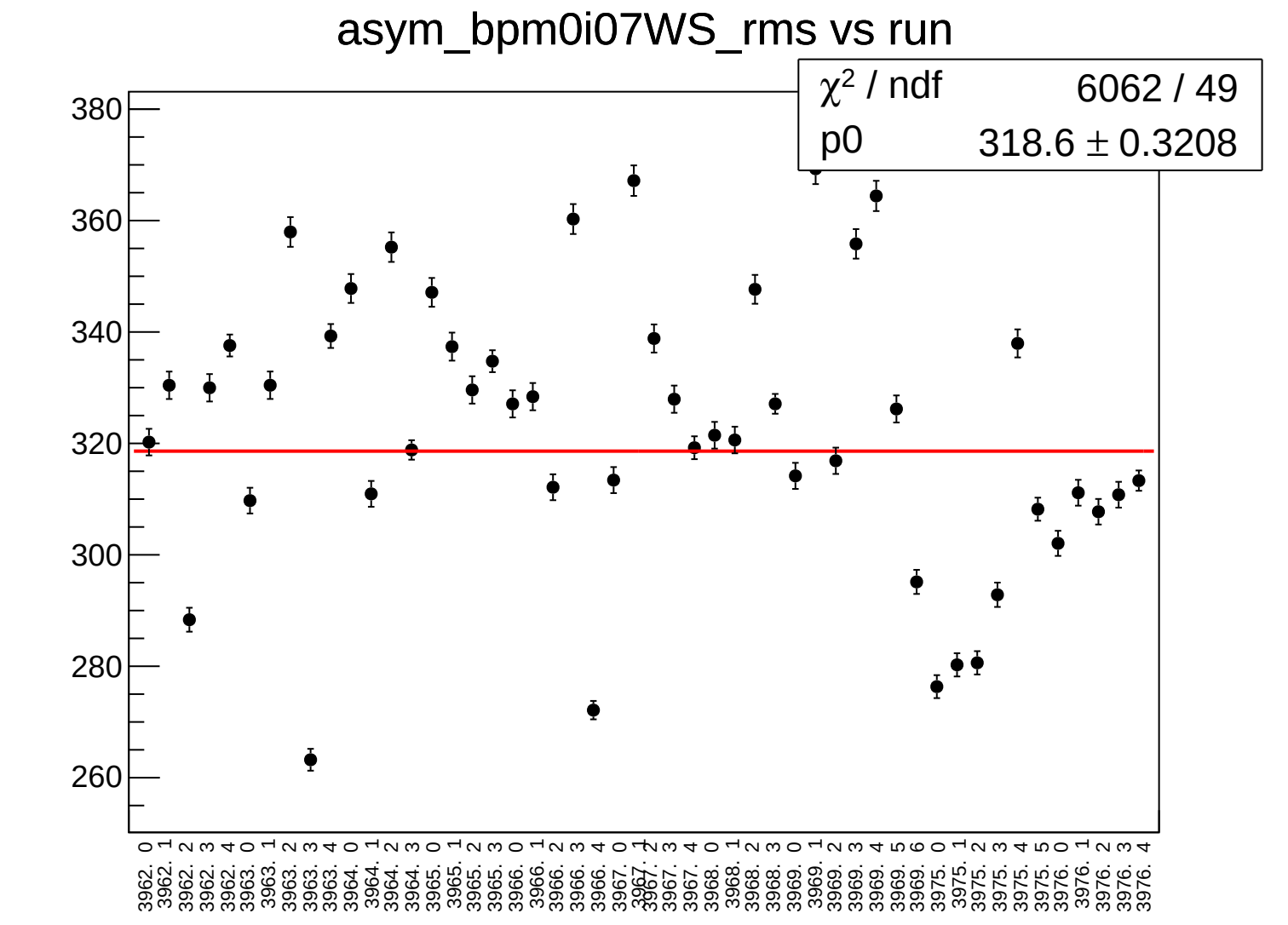
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bpm0i07WS_mean vs run
χ² / ndf 38.48 / 49
p0 −1023 ± 453.7
pull
Entries 50
Mean −6.748
Std Dev 34.68


pull1D
Entries 50
Mean −0.01184
Std Dev 0.8772


asym_bpm0i07WS_rms vs run
χ² / ndf 6062 / 49
p0 318.6 ± 0.3208
380
360
340
320
300
280
260
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
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3967. 2
3967. 3
3967. 4
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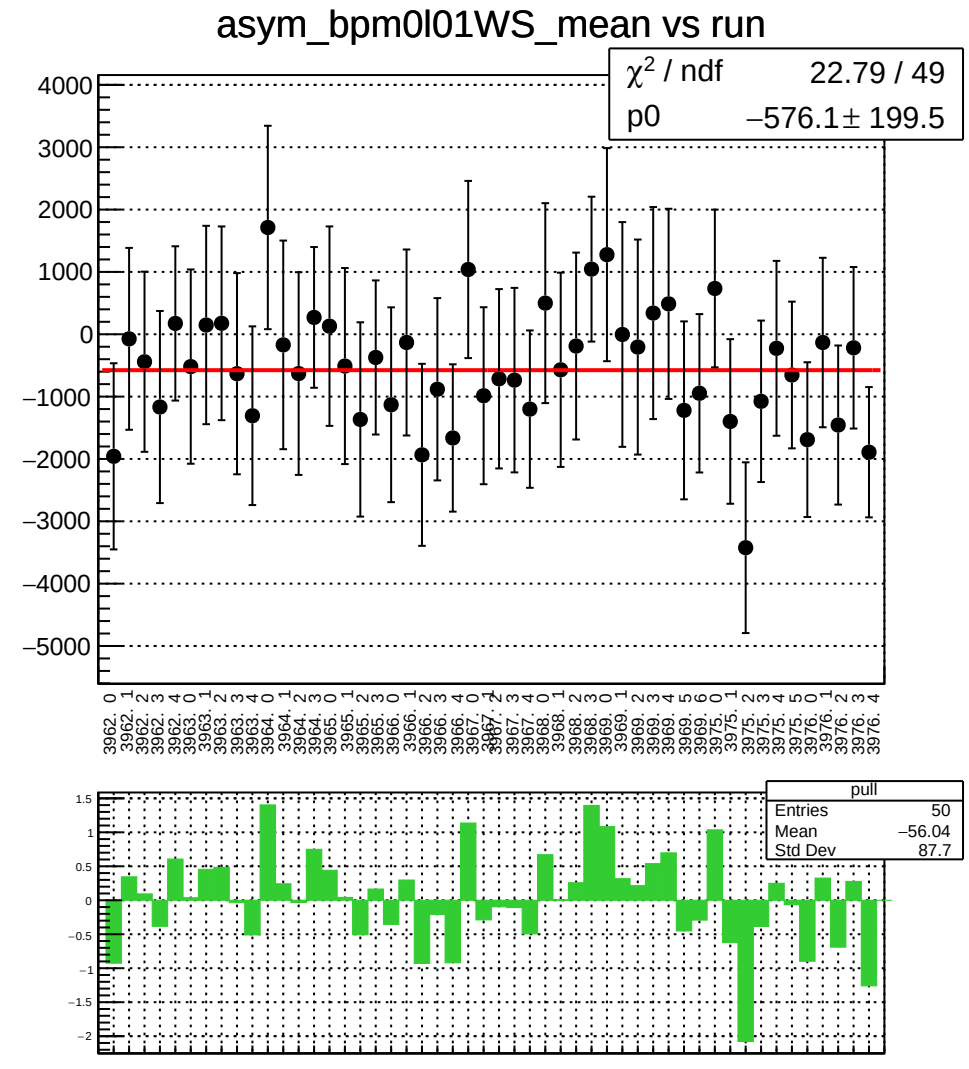
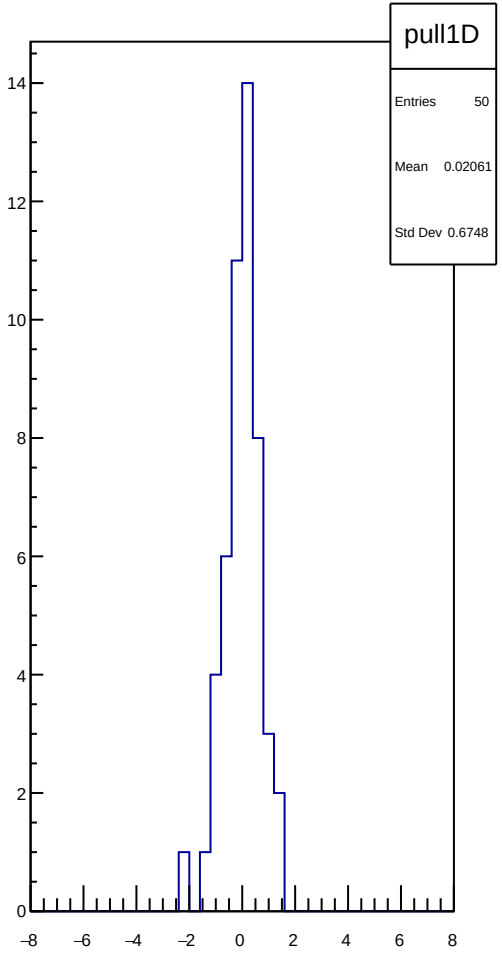
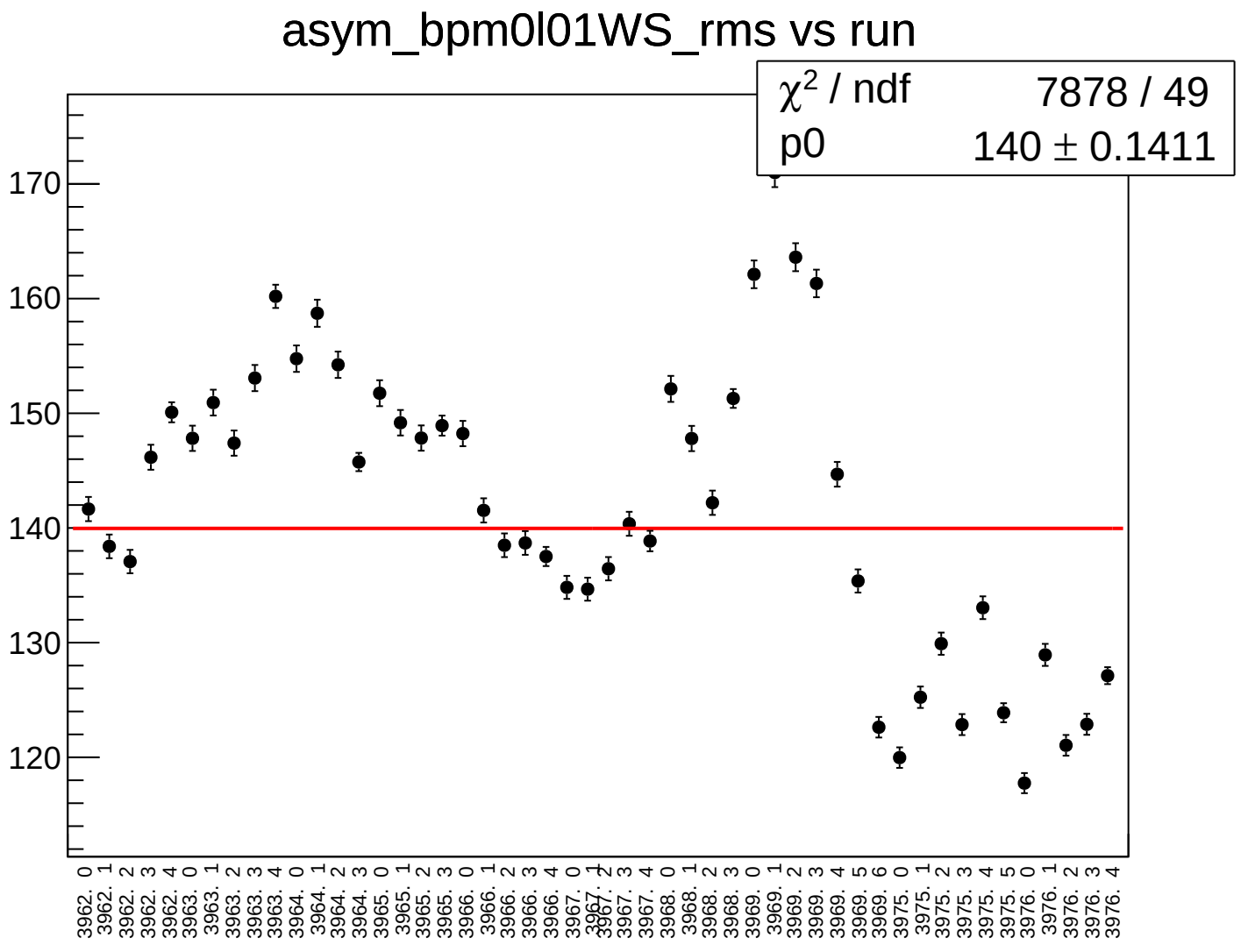
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bpm0l01WS_mean vs run
χ² / ndf 22.79 / 49
p0 −576.1± 199.5
pull
Entries 50
Mean −56.04
Std Dev 87.7


pull1D
Entries 50
Mean 0.02061
Std Dev 0.6748


asym_bpm0l01WS_rms vs run
χ² / ndf 7878 / 49
p0 140 ± 0.1411
170
160
150
140
130
120
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
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3965. 2
3965. 3
3966. 0
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3966. 2
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3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
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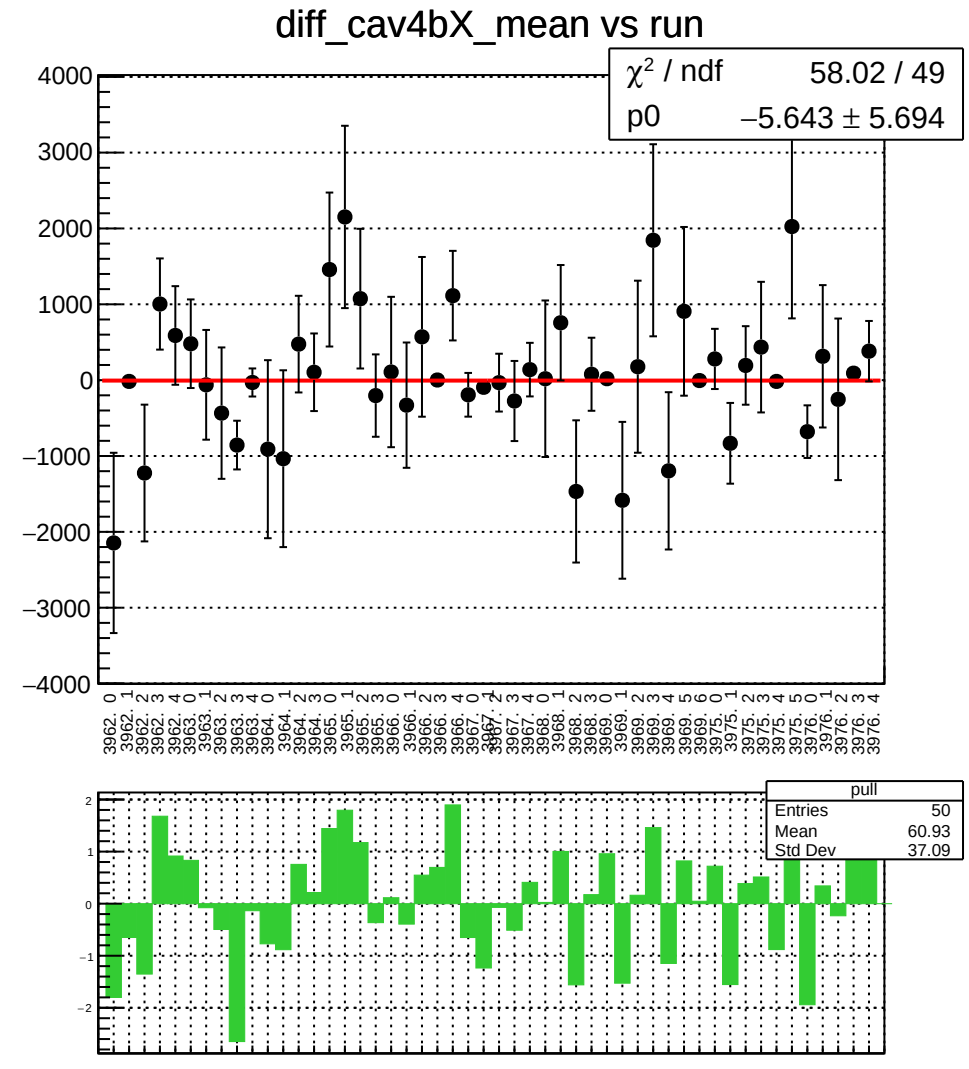
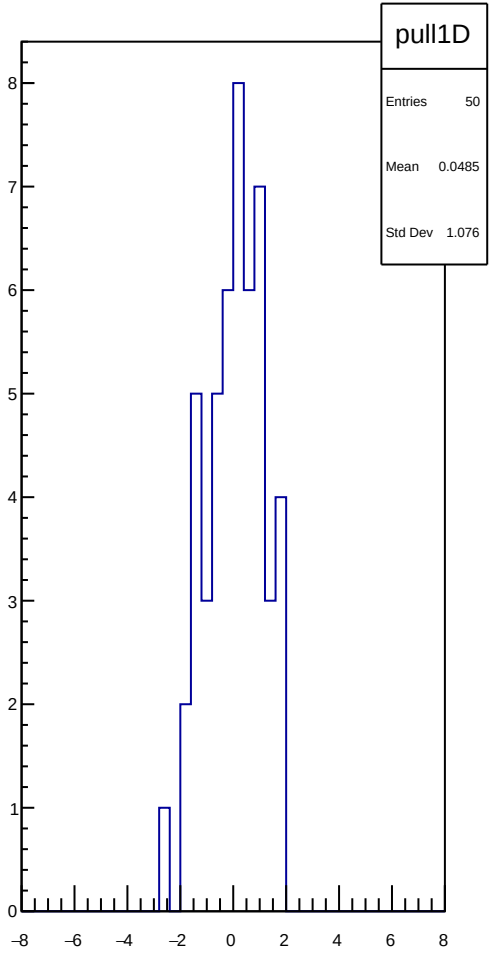
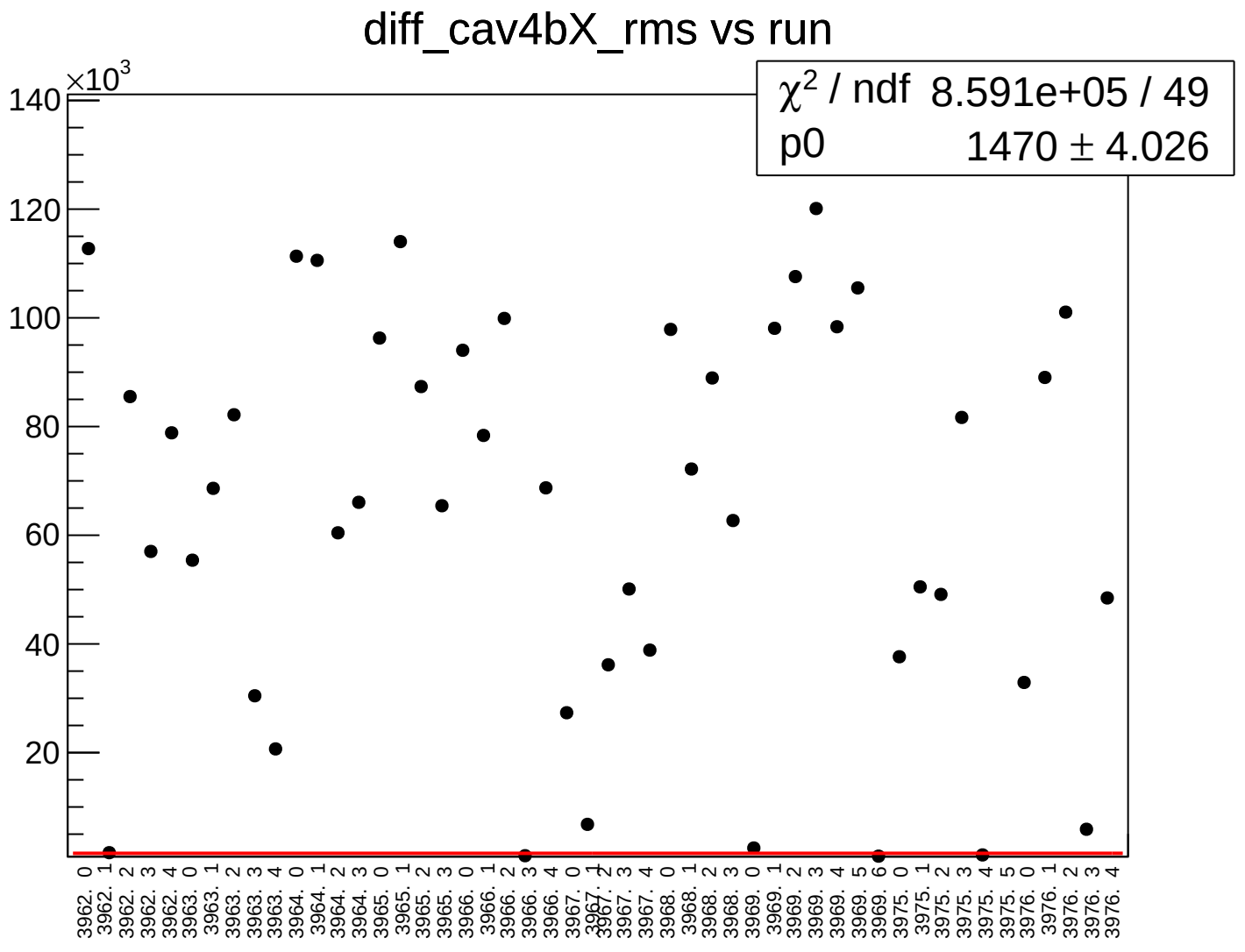
3976. 4


diff_cav4bX_mean vs run
χ² / ndf 58.02 / 49
p0 −5.643 ± 5.694
pull
Entries 50
Mean 60.93
Std Dev 37.09


pull1D
Entries 50
Mean 0.0485
Std Dev 1.076


diff_cav4bX_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 8.591e+05 / 49
p0 1470 ± 4.026
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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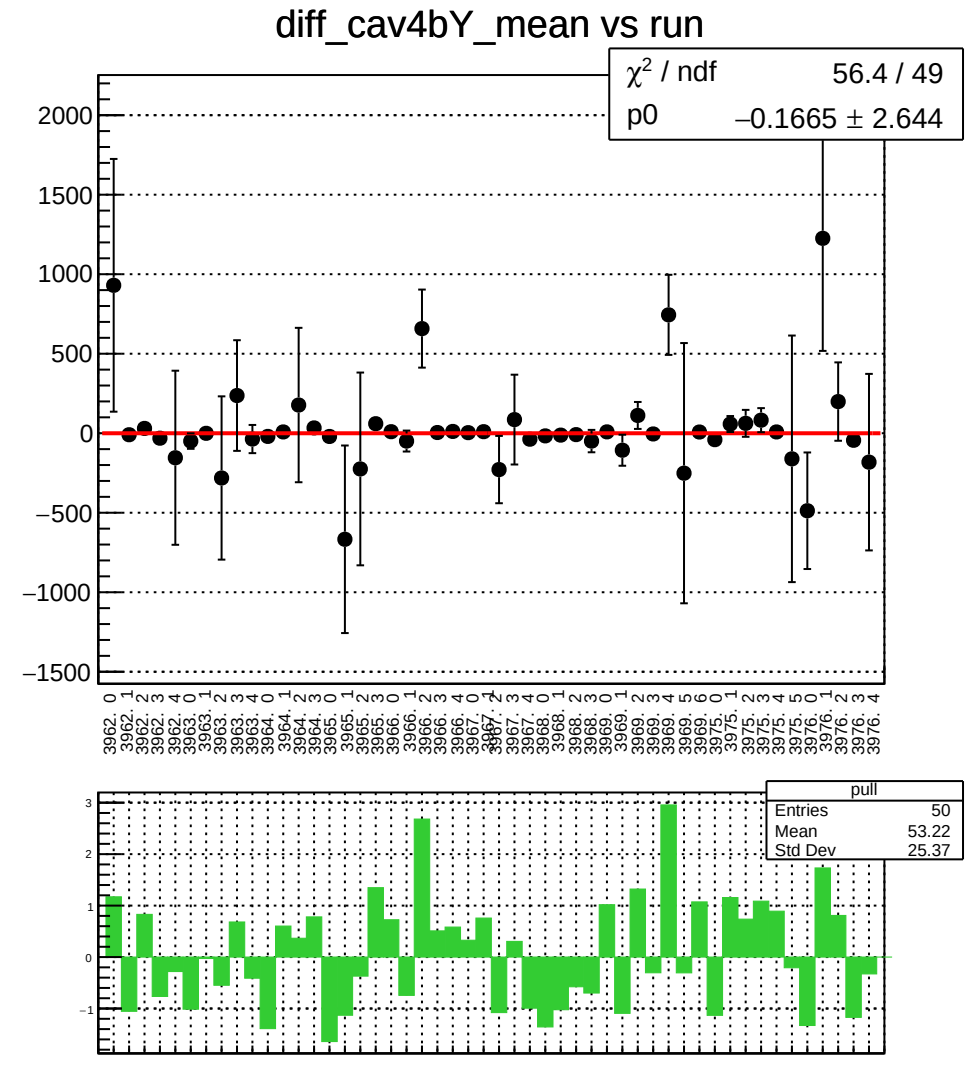
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


diff_cav4bY_mean vs run
χ² / ndf 56.4 / 49
p0 −0.1665 ± 2.644
2000
1500
1000
500
0
−500
−1000
−1500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
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3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
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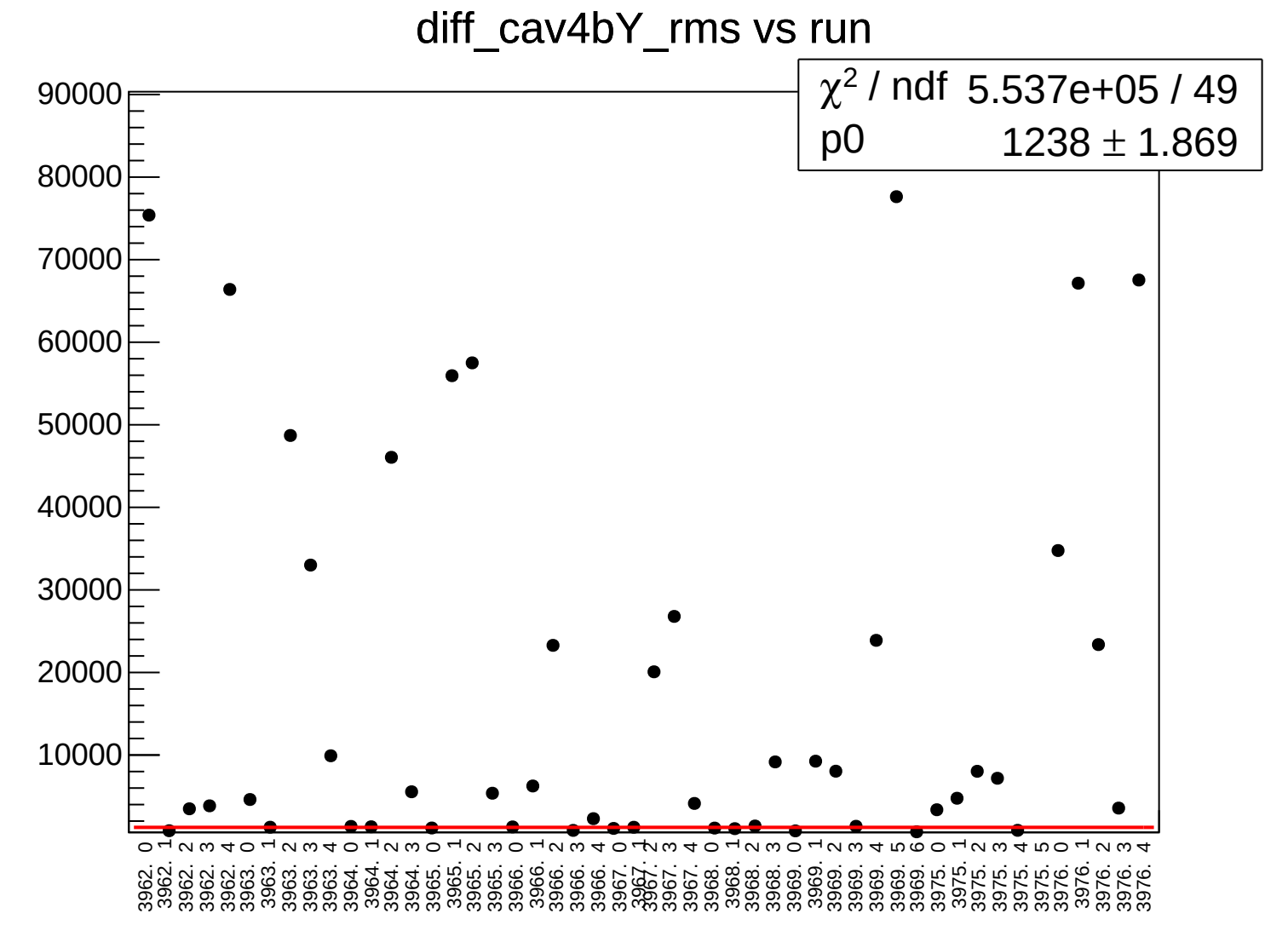
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 53.22
Std Dev 25.37
3
2
1
0
−1
pull1D
Entries 50
Mean 0.06927
Std Dev 1.06
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4bY_rms vs run
χ^2 / ndf 5.537e+05 / 49
p0 1238 ± 1.869
90000
80000
70000
60000
50000
40000
30000
20000
10000
3962. 0
3962. 1
3962. 2
3962. 3
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3963. 2
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3966. 2
3966. 3
3966. 4
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3967. 2
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3969. 2
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3969. 5
3969. 6
3975. 0
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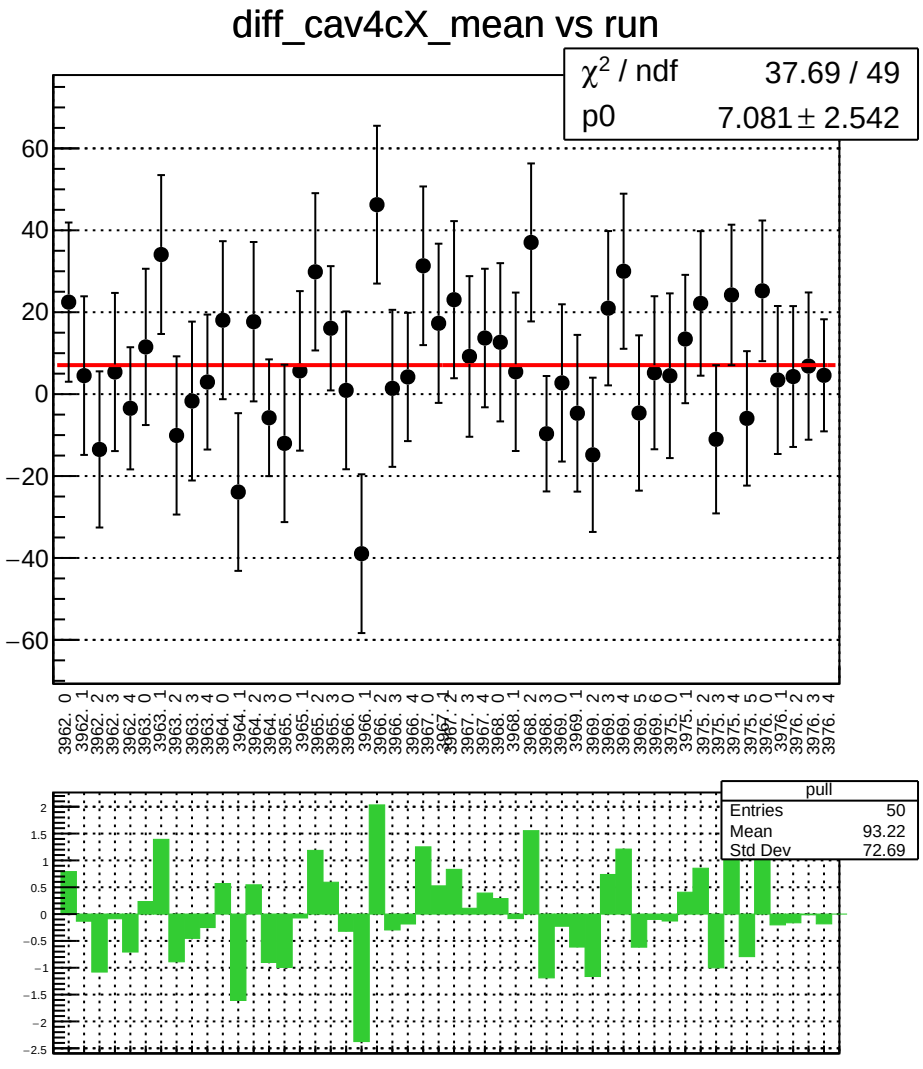
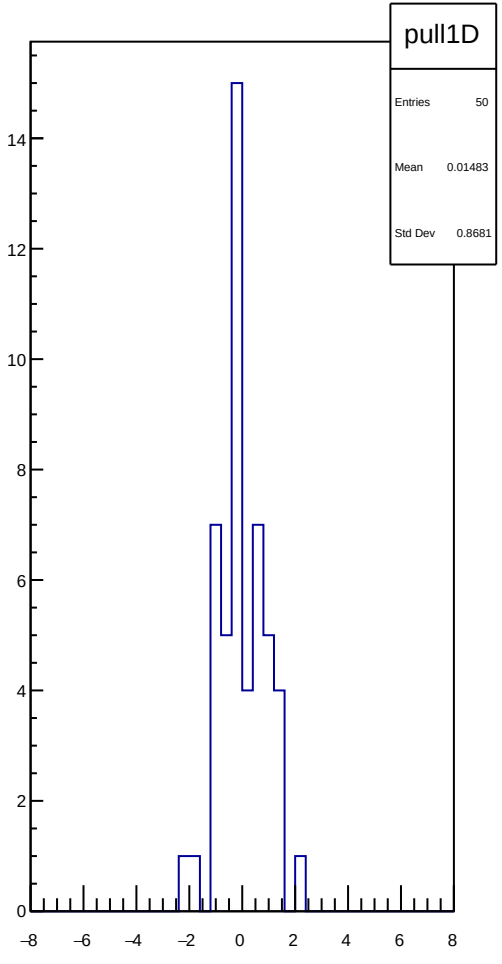
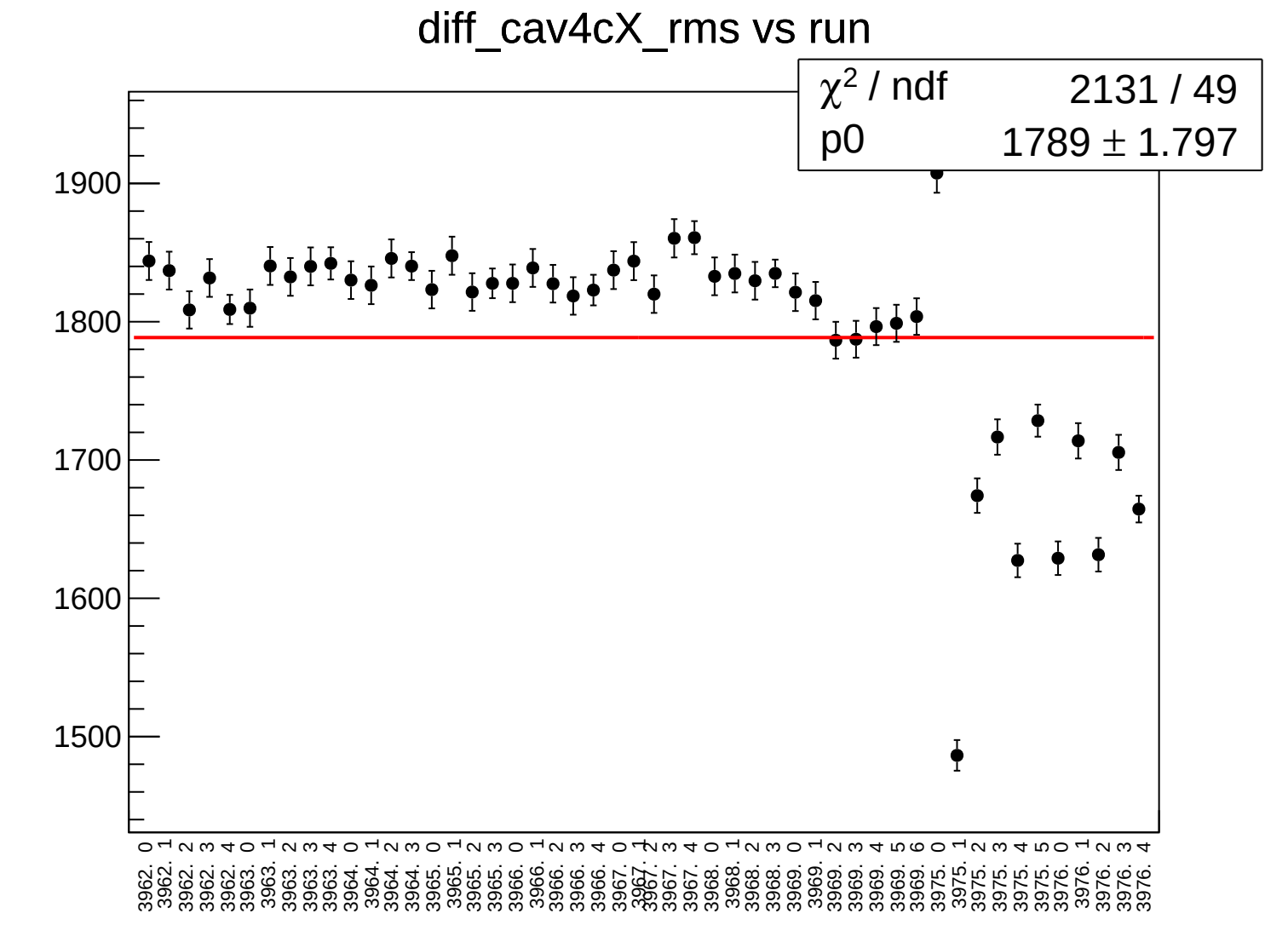
3976. 4


diff_cav4cX_mean vs run
χ^2 / ndf 37.69 / 49
p0 7.081 ± 2.542
pull
Entries 50
Mean 93.22
Std Dev 72.69


pull1D
Entries 50
Mean 0.01483
Std Dev 0.8681


diff_cav4cX_rms vs run
χ² / ndf 2131 / 49
p0 1789 ± 1.797
1900
1800
1700
1600
1500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
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3964. 2
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3966. 2
3966. 3
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3967. 1
3967. 2
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3968. 2
3968. 3
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3969. 1
3969. 2
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3969. 6
3975. 0
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3975. 5
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3976. 2
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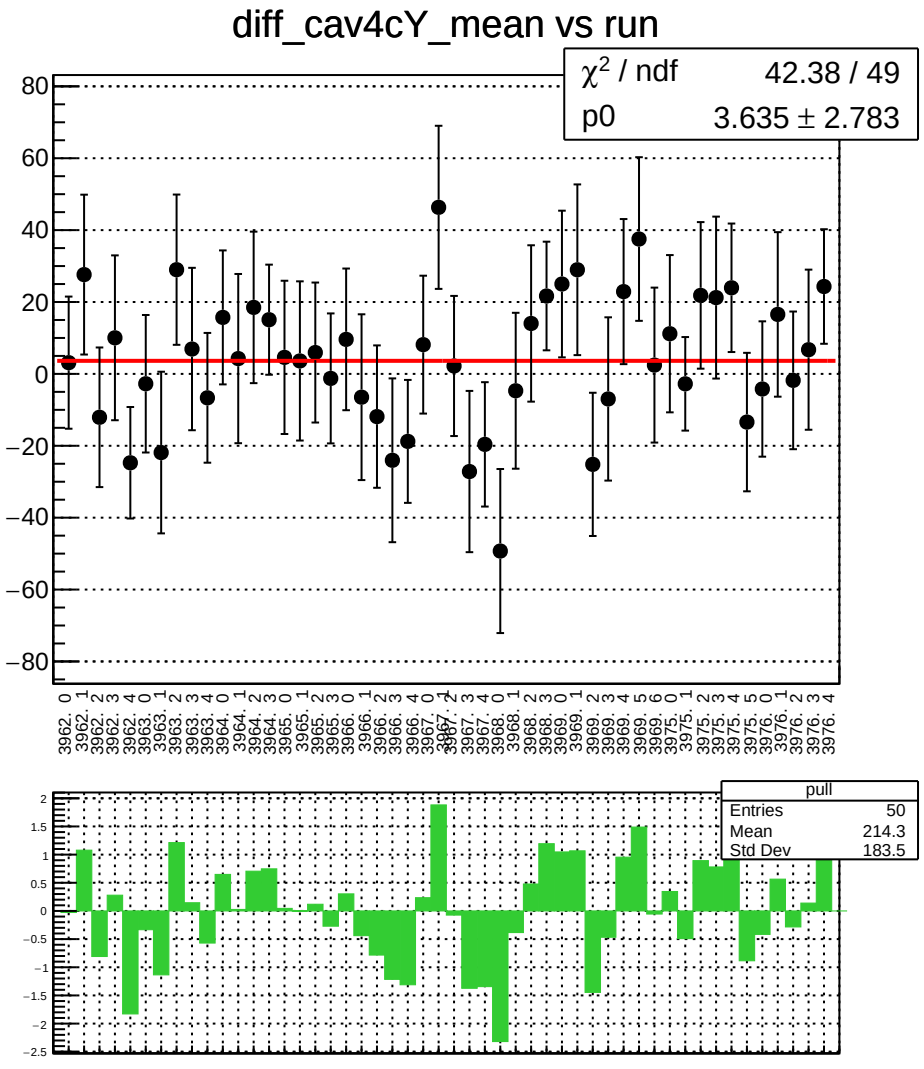
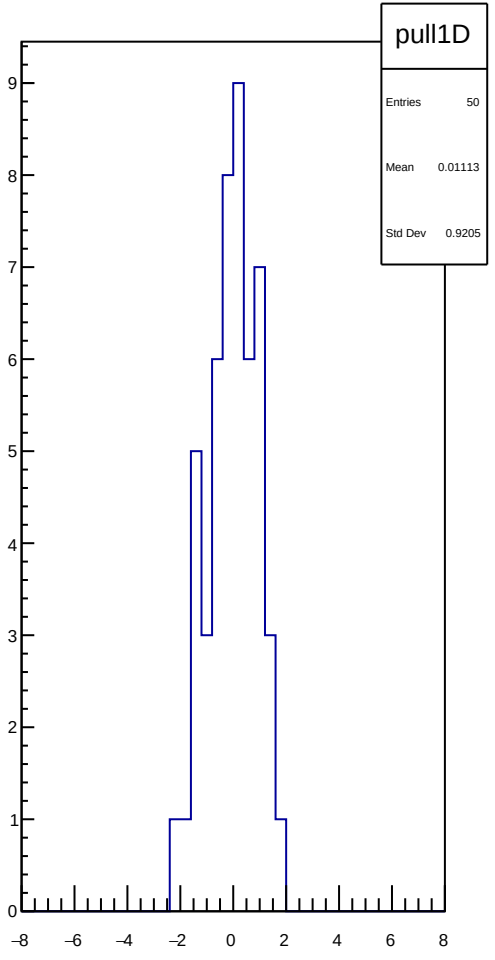
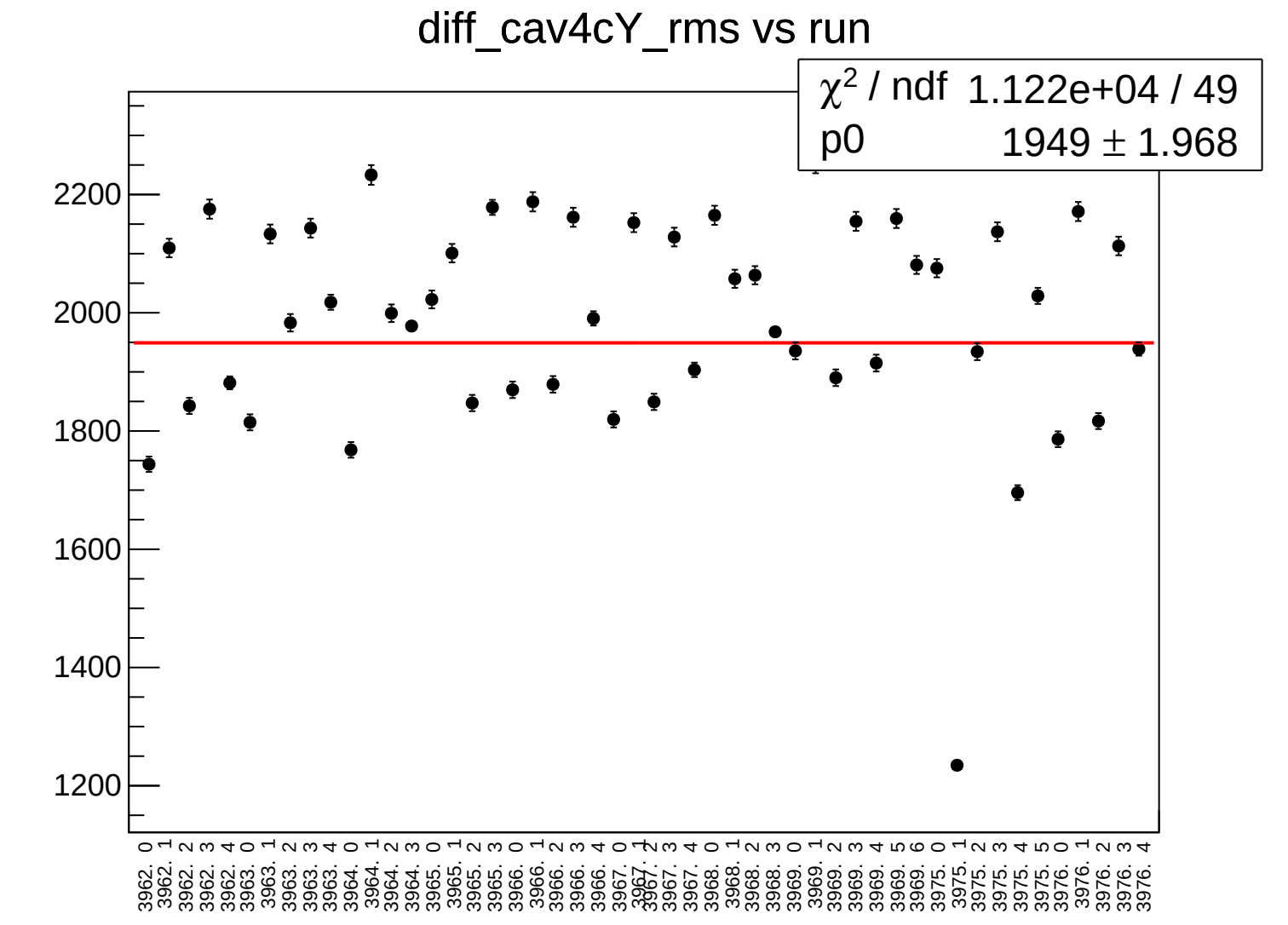
3976. 4


diff_cav4cY_mean vs run
χ² / ndf 42.38 / 49
p0 3.635 ± 2.783
pull
Entries 50
Mean 214.3
Std Dev 183.5


pull1D
Entries 50
Mean 0.01113
Std Dev 0.9205


diff_cav4cY_rms vs run
χ² / ndf 1.122e+04 / 49
p0 1949 ± 1.968
2200
2000
1800
1600
1400
1200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
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3966. 4
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3967. 1
3967. 2
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3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
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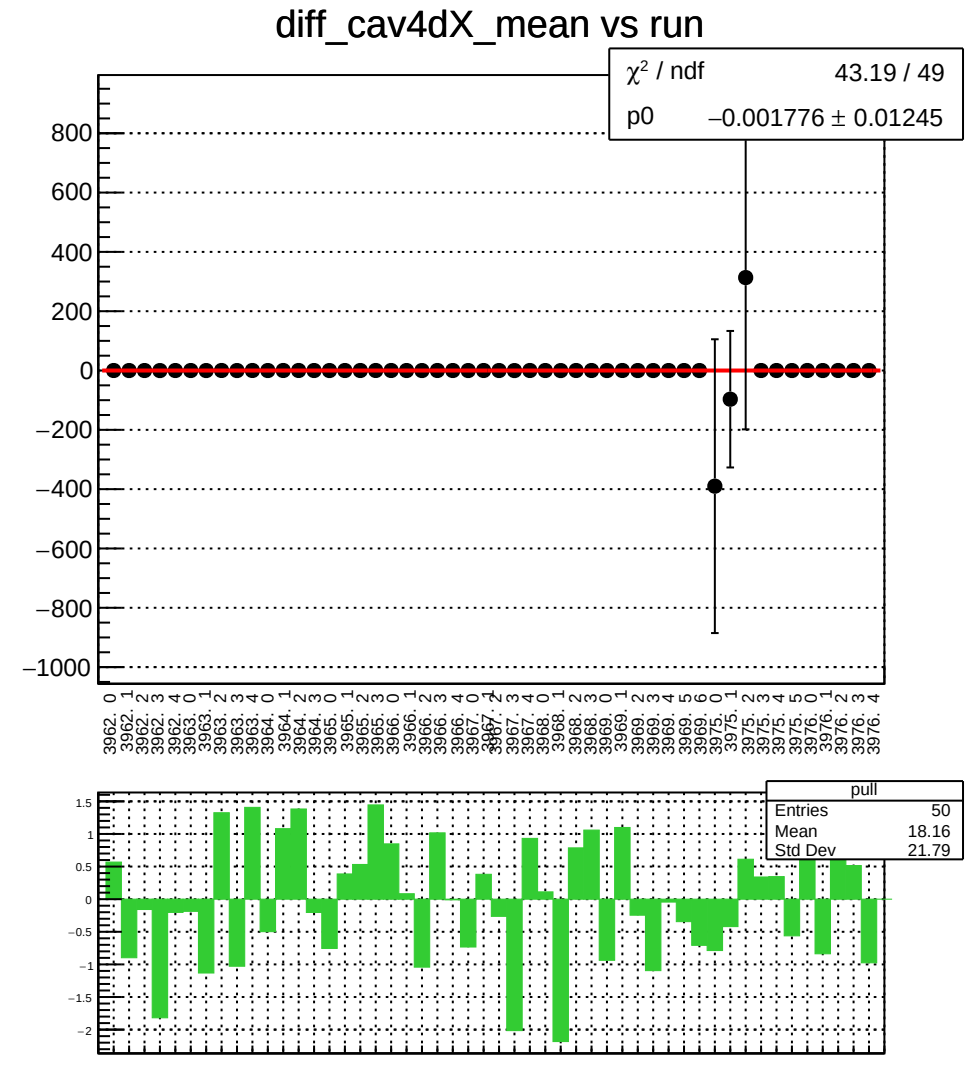
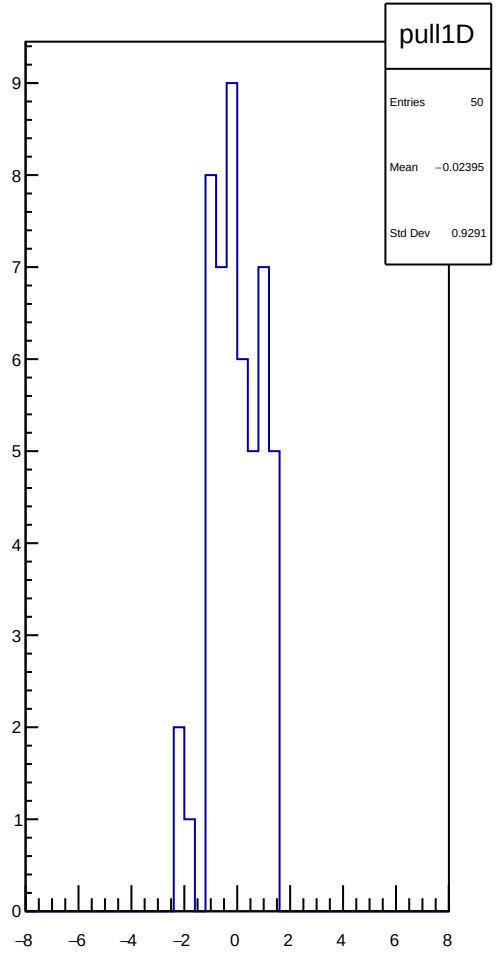
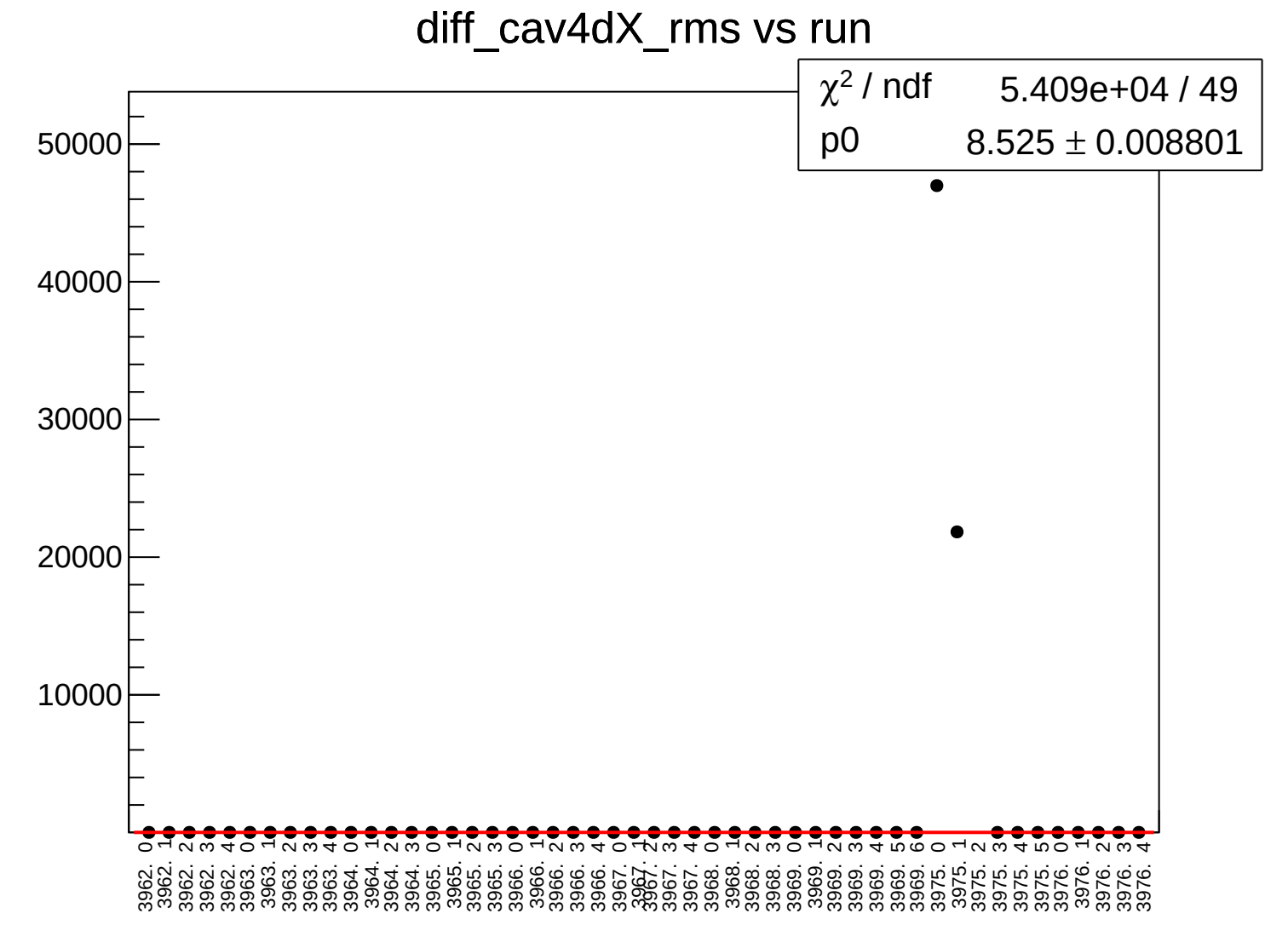
3976. 4


diff_cav4dX_mean vs run
χ² / ndf 43.19 / 49
p0 −0.001776 ± 0.01245
pull
Entries 50
Mean 18.16
Std Dev 21.79


pull1D
Entries 50
Mean −0.02395
Std Dev 0.9291


diff_cav4dX_rms vs run
χ^2 / ndf 5.409e+04 / 49
p0 8.525 ± 0.008801
50000
40000
30000
20000
10000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
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3963. 2
3963. 3
3963. 4
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3964. 2
3964. 3
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3965. 2
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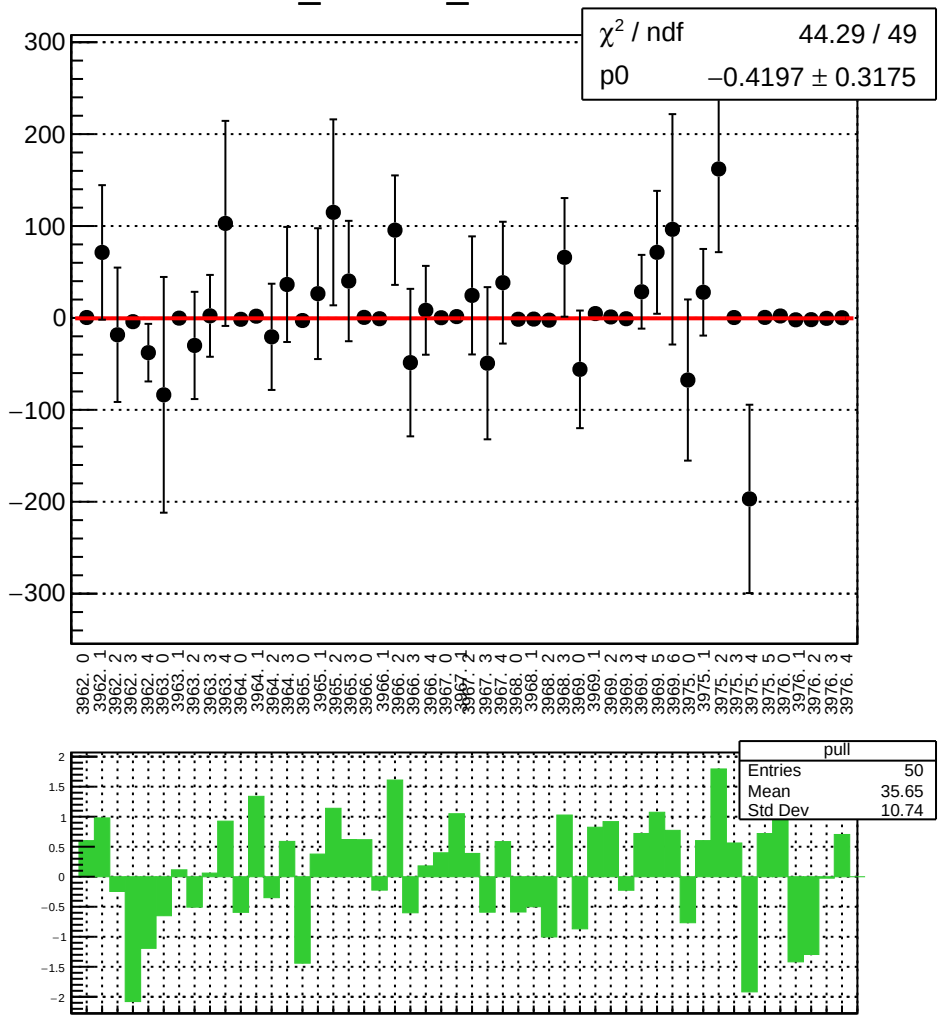
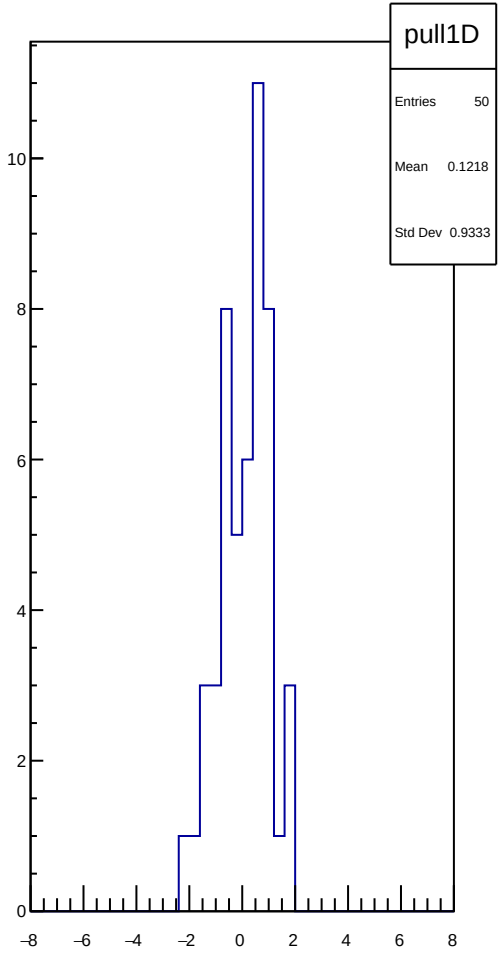
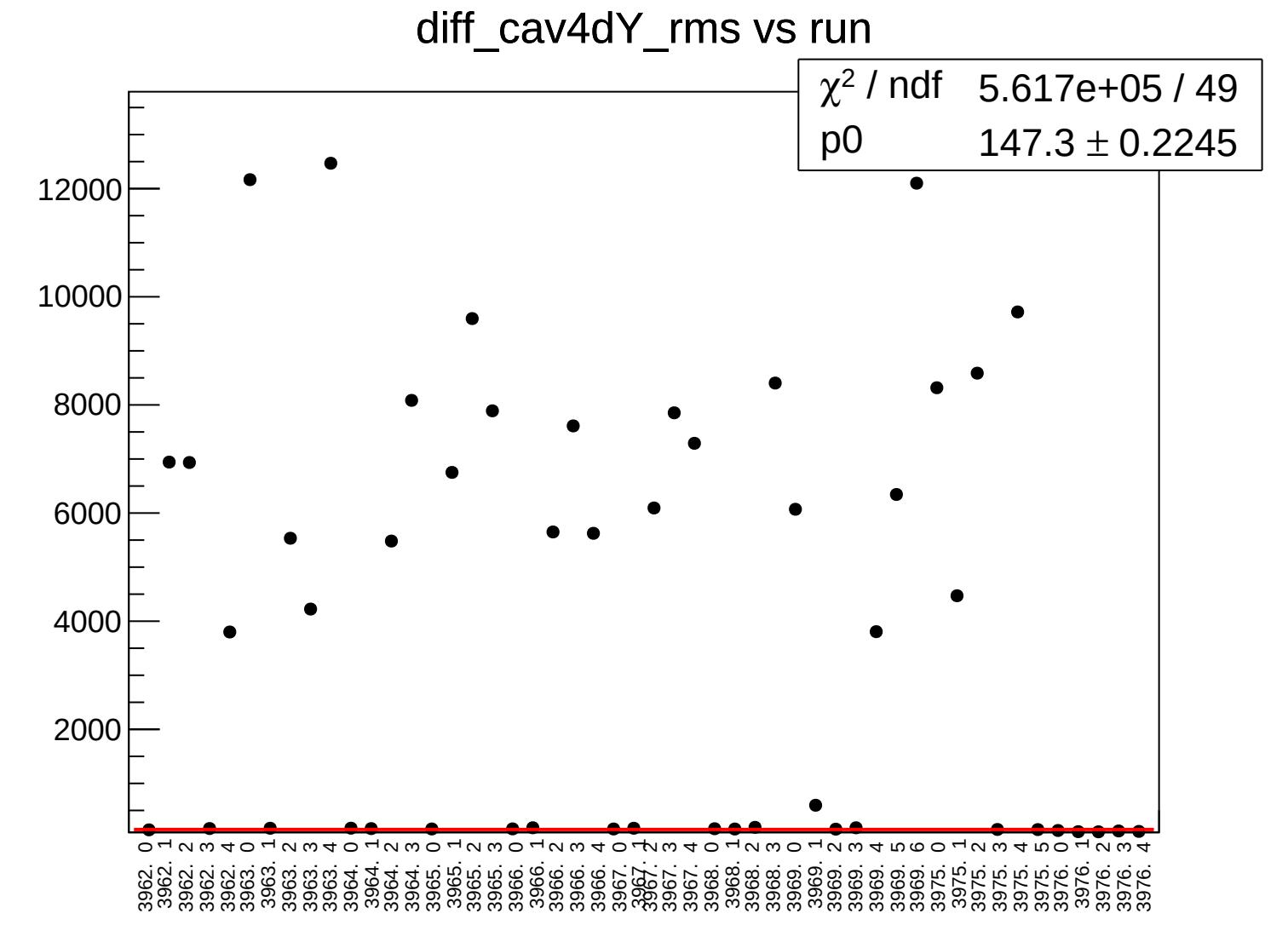
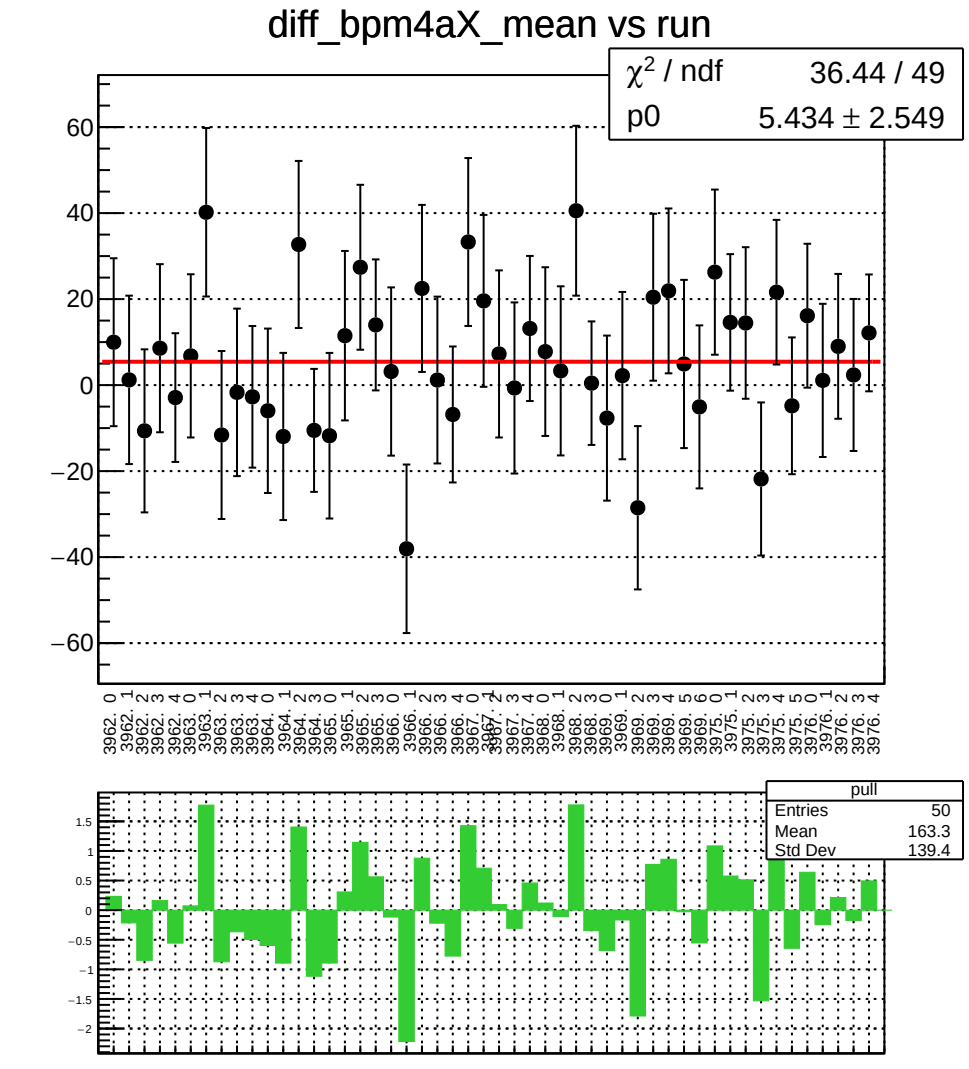
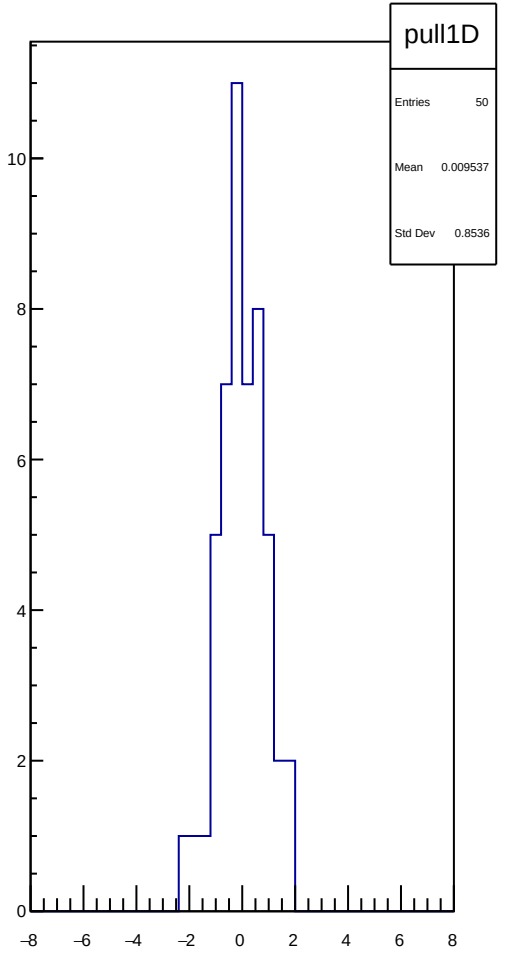
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

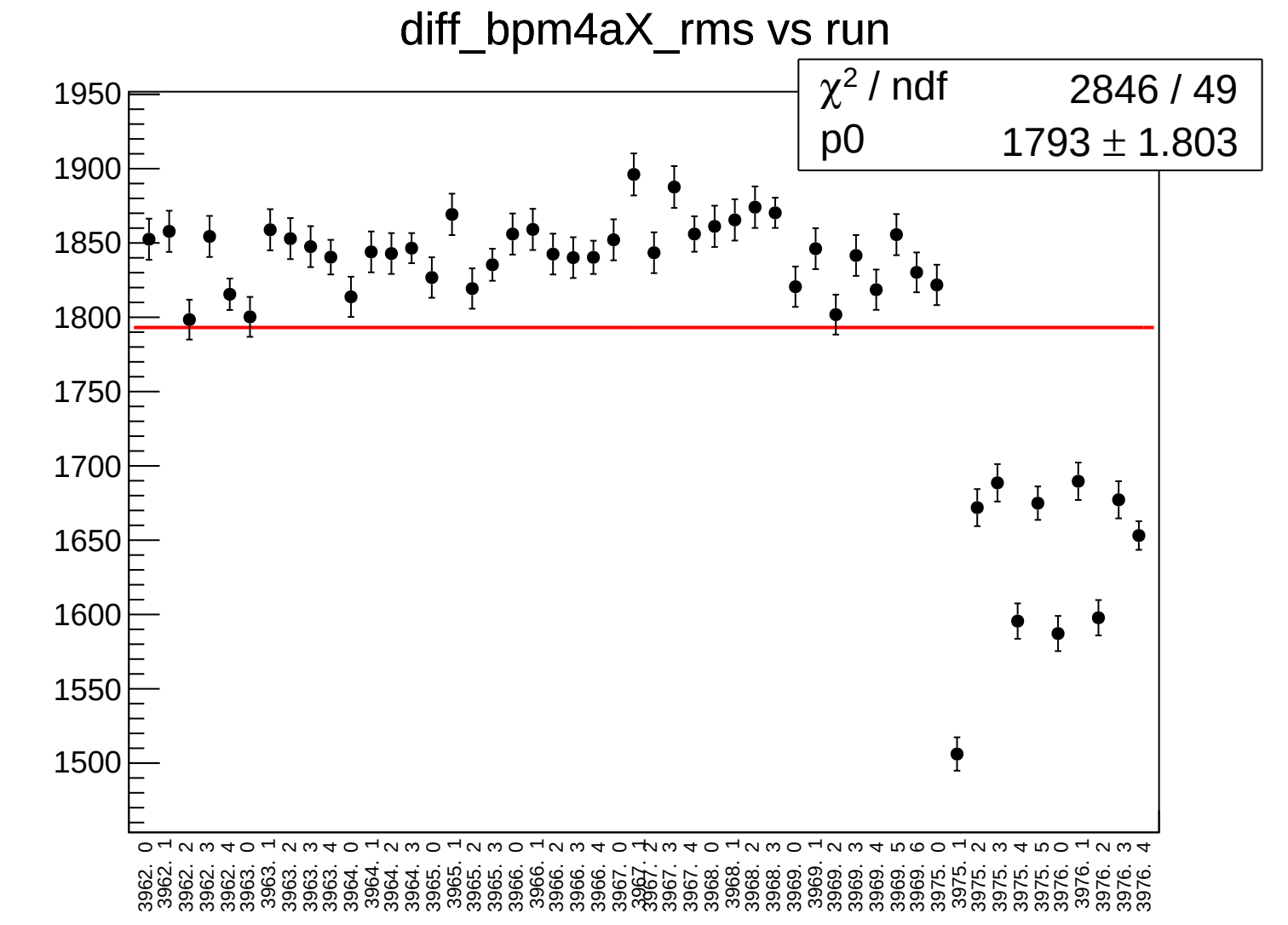

diff_cav4dY_mean vs run
χ² / ndf 44.29 / 49
p0 −0.4197 ± 0.3175
pull
Entries 50
Mean 35.65
Std Dev 10.74


pull1D
Entries 50
Mean 0.1218
Std Dev 0.9333


diff_cav4dY_rms vs run
χ² / ndf 5.617e+05 / 49
p0 147.3 ± 0.2245
12000
10000
8000
6000
4000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


diff_bpm4aX_mean vs run
χ^2 / ndf 36.44 / 49
p0 5.434 ± 2.549
pull
Entries 50
Mean 163.3
Std Dev 139.4


pull1D
Entries 50
Mean 0.009537
Std Dev 0.8536


diff_bpm4aX_rms vs run
χ² / ndf 2846 / 49
p0 1793 ± 1.803
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
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3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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3975. 3
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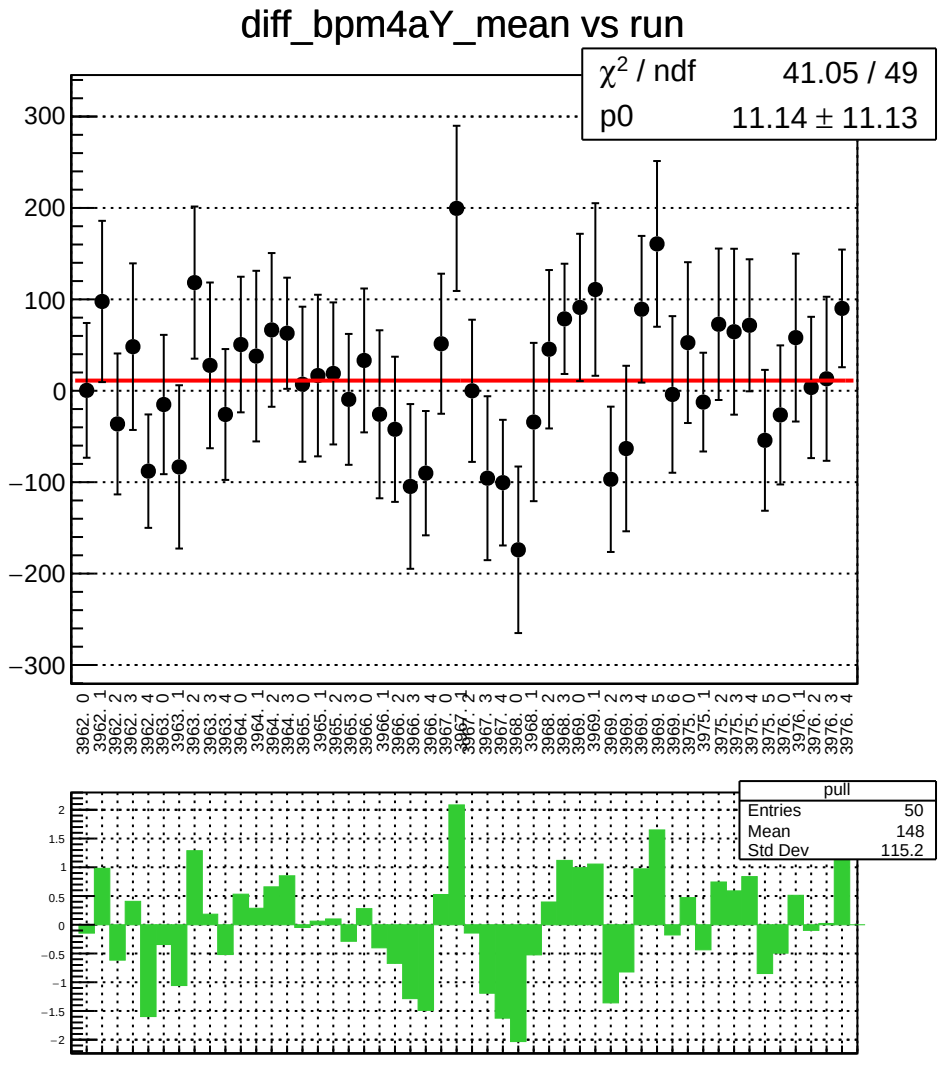
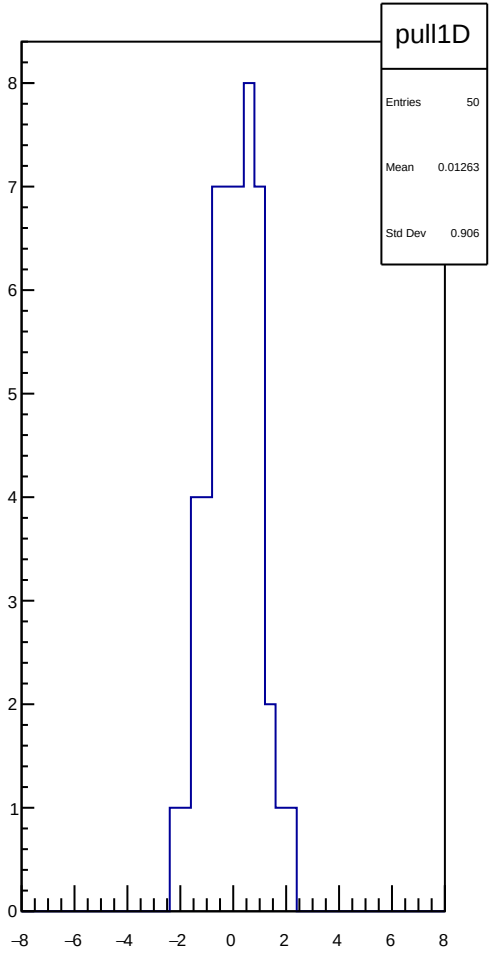
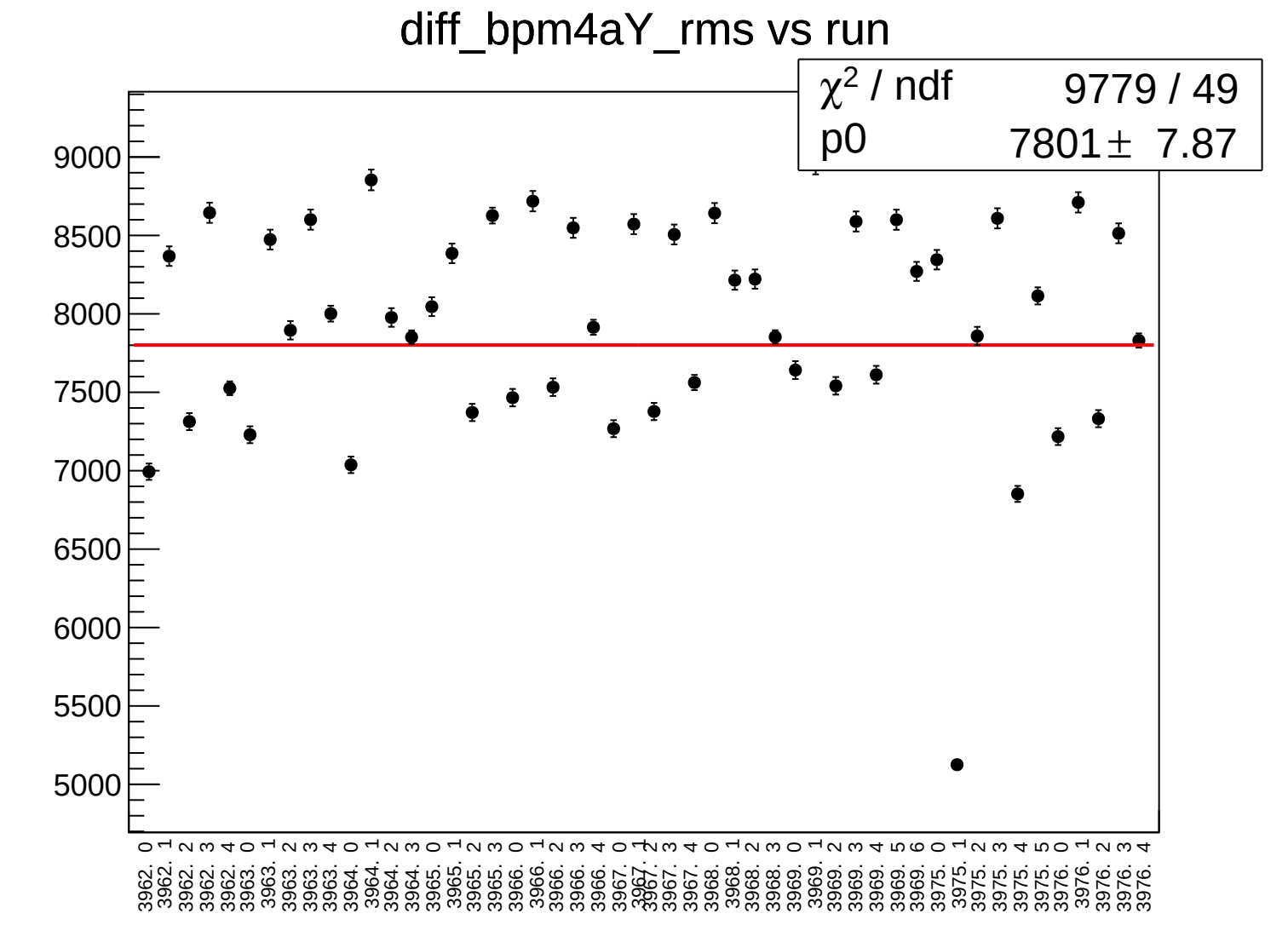
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


diff_bpm4aY_mean vs run
χ^2 / ndf 41.05 / 49
p0 11.14 ± 11.13
pull
Entries 50
Mean 148
Std Dev 115.2


pull1D
Entries 50
Mean 0.01263
Std Dev 0.906


diff_bpm4aY_rms vs run
χ² / ndf 9779 / 49
p0 7801 ± 7.87
9000
8500
8000
7500
7000
6500
6000
5500
5000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
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3968. 2
3968. 3
3969. 0
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3969. 2
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3969. 4
3969. 5
3969. 6
3975. 0
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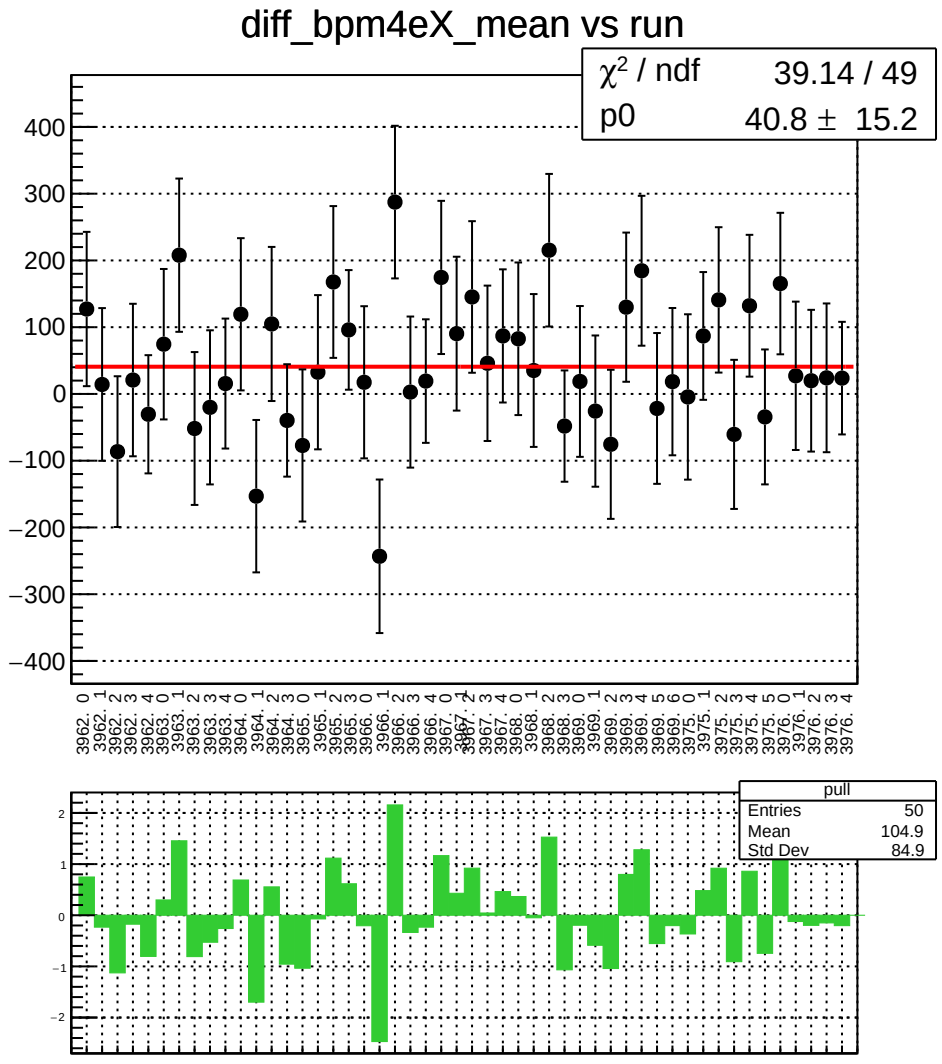
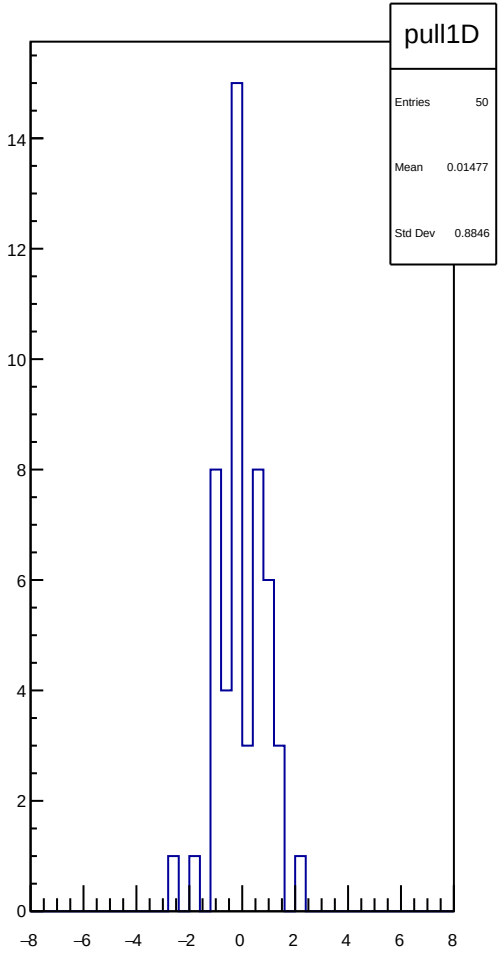
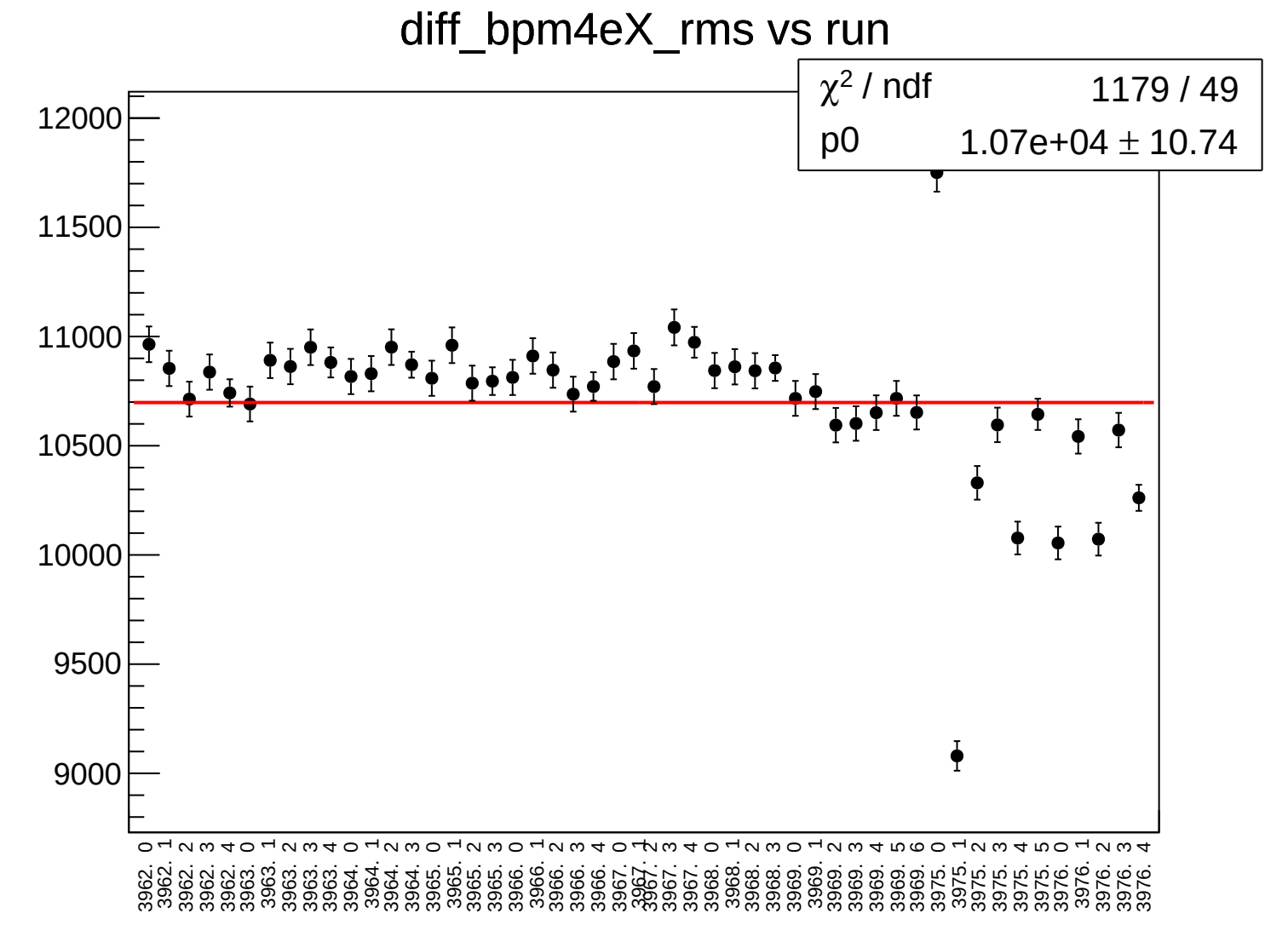
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


diff_bpm4eX_mean vs run
χ² / ndf 39.14 / 49
p0 40.8 ± 15.2
pull
Entries 50
Mean 104.9
Std Dev 84.9


pull1D
Entries 50
Mean 0.01477
Std Dev 0.8846


diff_bpm4eX_rms vs run
χ² / ndf 1179 / 49
p0 1.07e+04 ± 10.74
12000
11500
11000
10500
10000
9500
9000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
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3964. 2
3964. 3
3965. 0
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3966. 3
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3968. 2
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3969. 1
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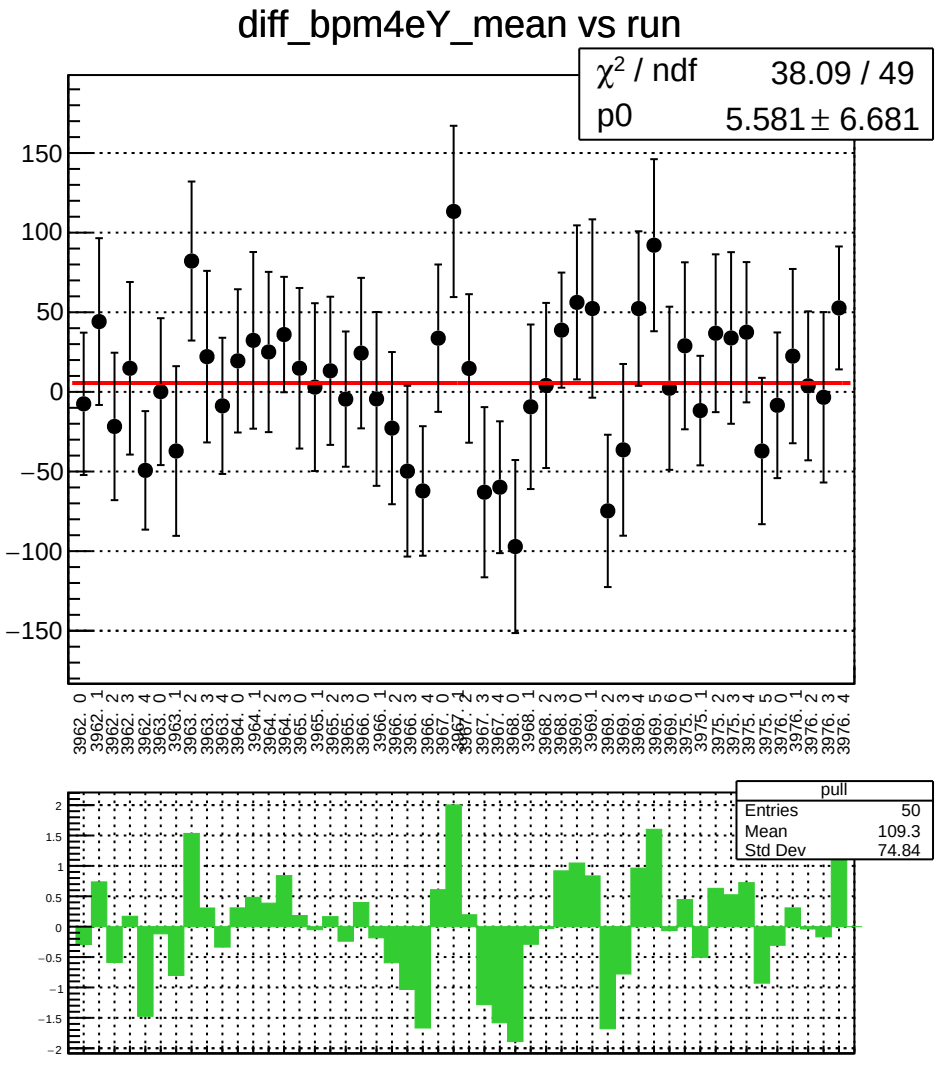
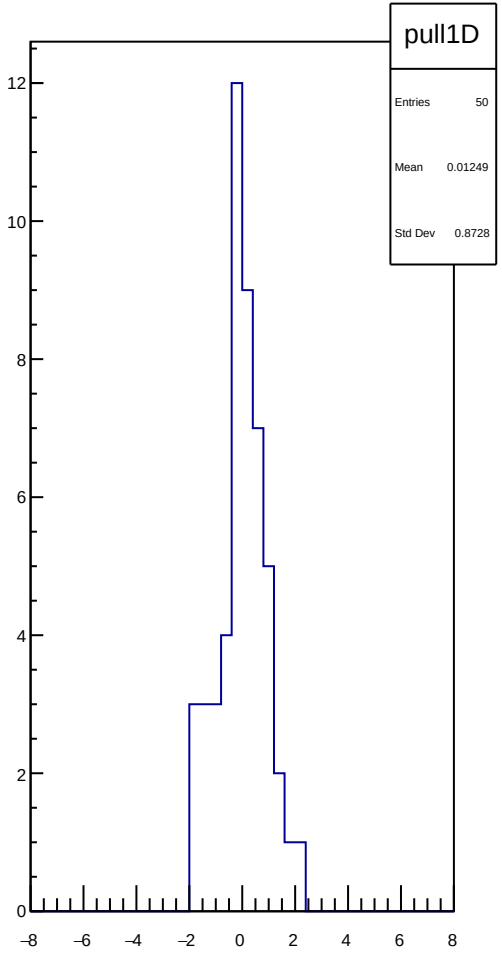
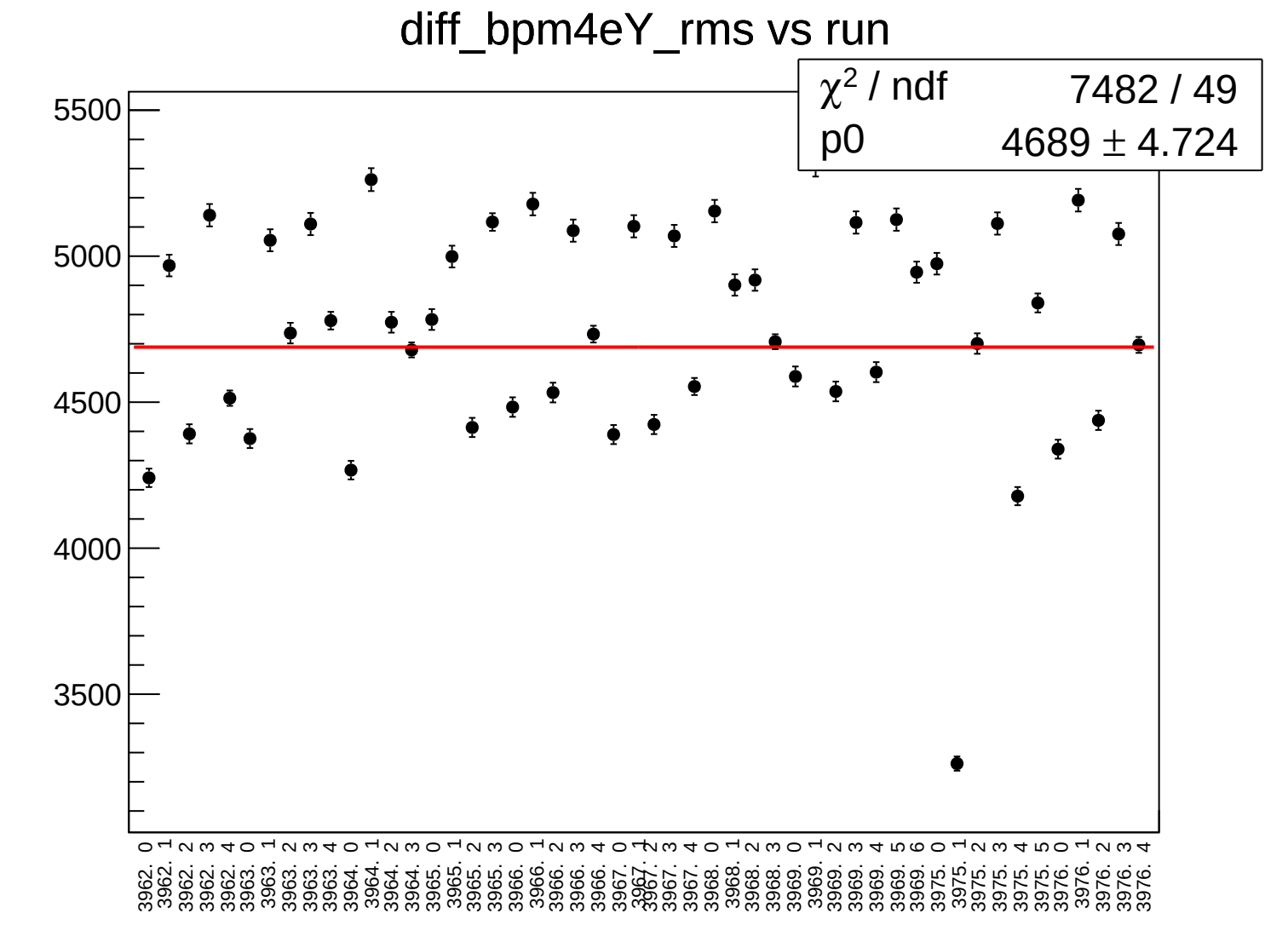

diff_bpm4eY_mean vs run
χ² / ndf 38.09 / 49
p0 5.581 ± 6.681
pull
Entries 50
Mean 109.3
Std Dev 74.84


pull1D
Entries 50
Mean 0.01249
Std Dev 0.8728


diff_bpm4eY_rms vs run
χ² / ndf 7482 / 49
p0 4689 ± 4.724
5500
5000
4500
4000
3500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
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3968. 2
3968. 3
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3969. 1
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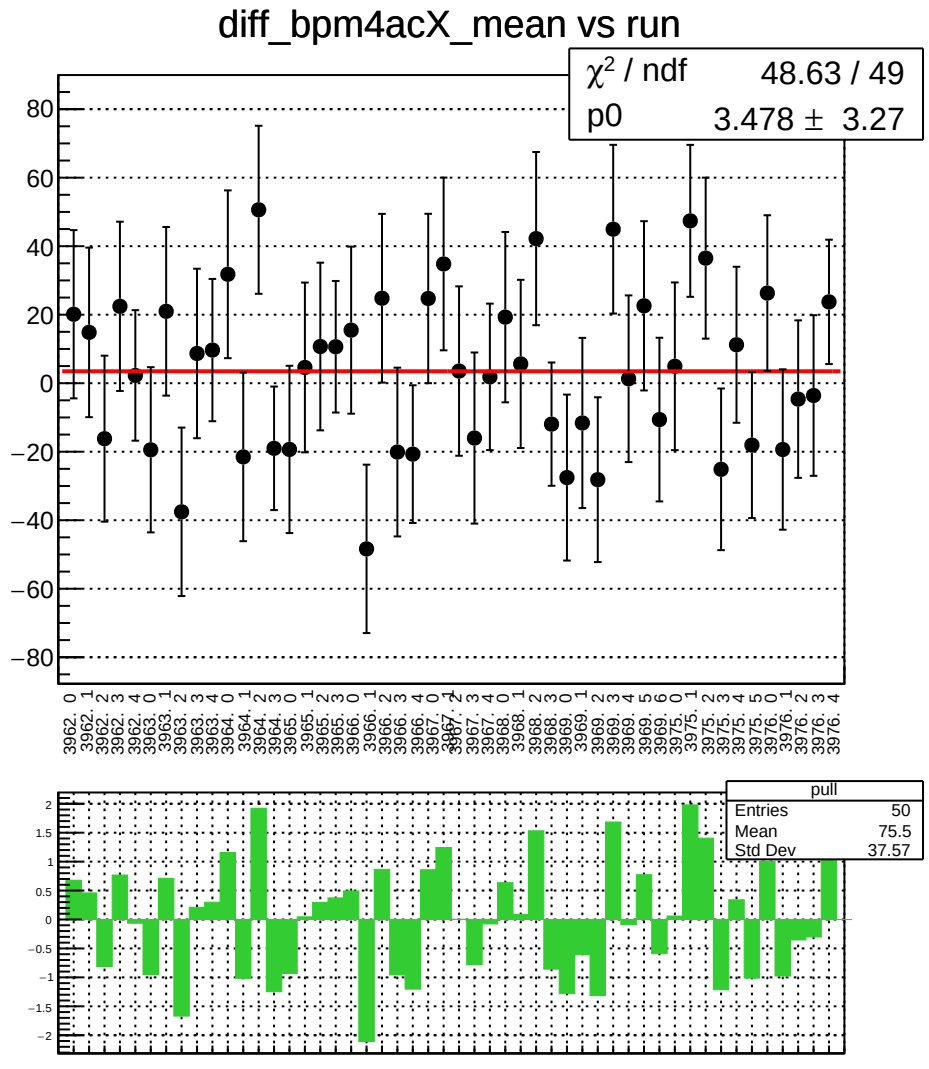
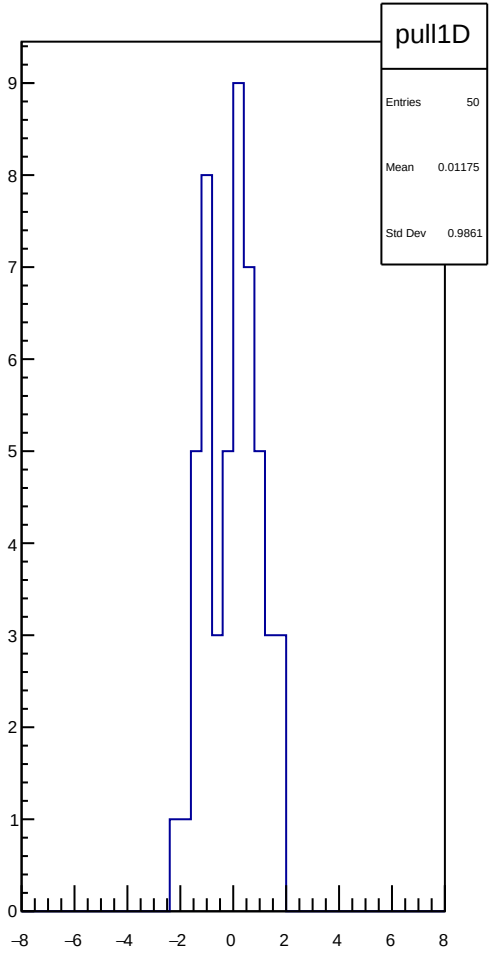
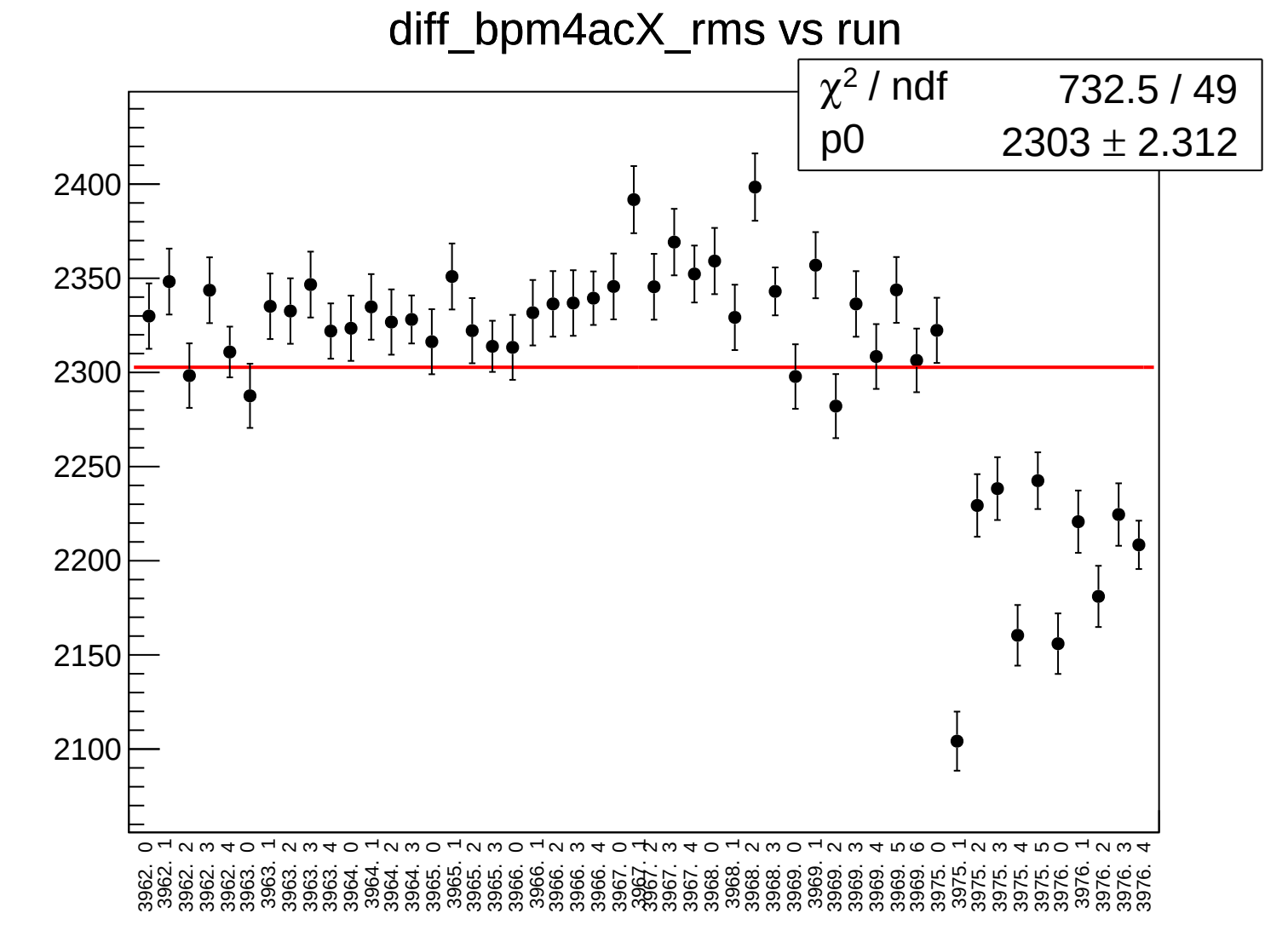
3976. 2
3976. 3
3976. 4


diff_bpm4acX_mean vs run
χ² / ndf 48.63 / 49
p0 3.478 ± 3.27
pull
Entries 50
Mean 75.5
Std Dev 37.57


pull1D
Entries 50
Mean 0.01175
Std Dev 0.9861


diff_bpm4acX_rms vs run
χ² / ndf 732.5 / 49
p0 2303 ± 2.312
2400
2350
2300
2250
2200
2150
2100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
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3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
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3968. 2
3968. 3
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3969. 1
3969. 2
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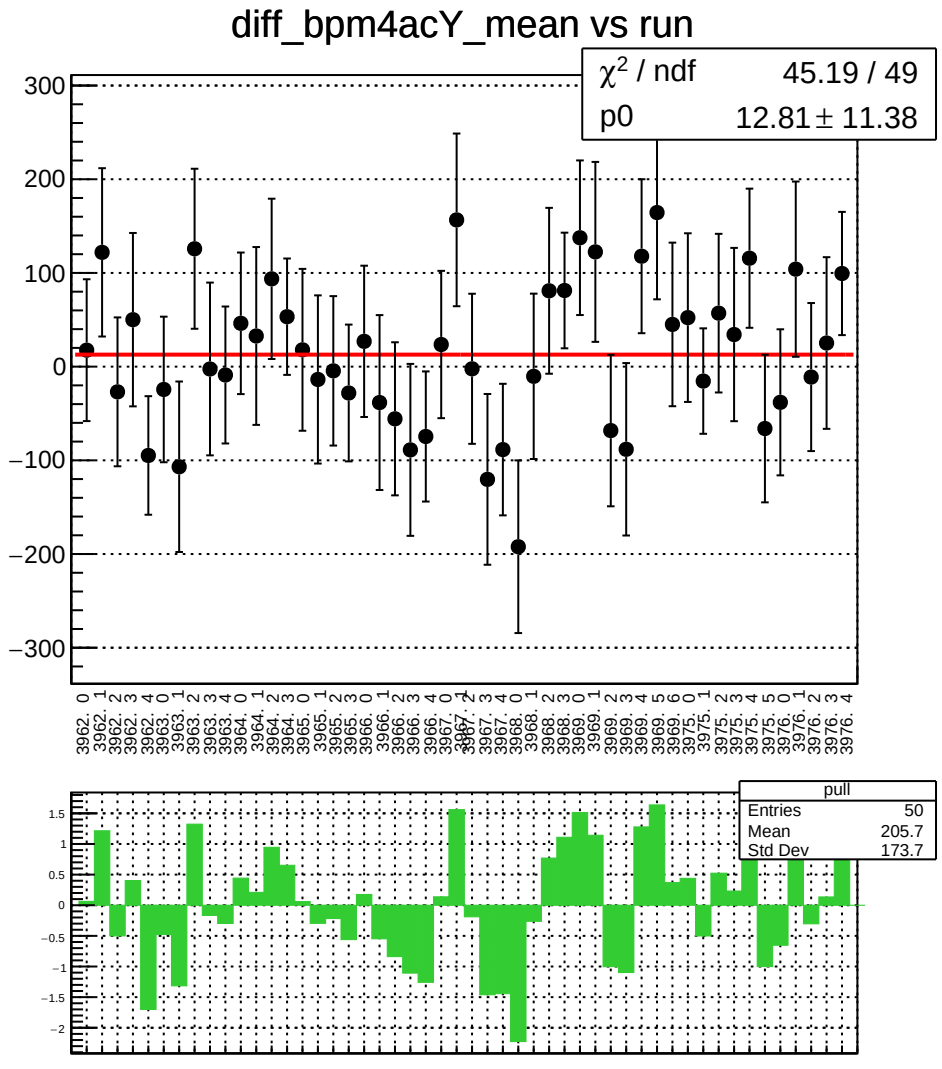
diff_bpm4acY_mean vs run
χ² / ndf 45.19 / 49
p0 12.81 ± 11.38
300
200
100
0
−100
−200
−300
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3963. 4
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3968. 3
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3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
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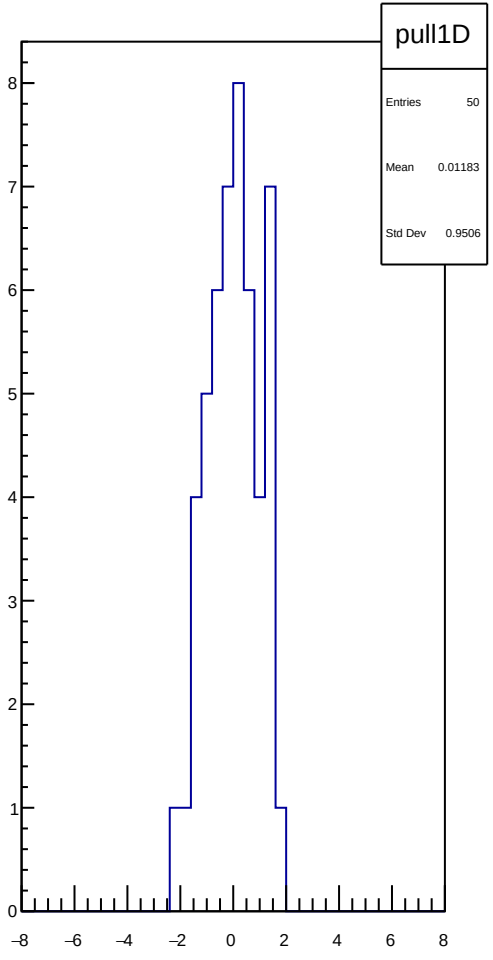
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 205.7
Std Dev 173.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.01183
Std Dev 0.9506
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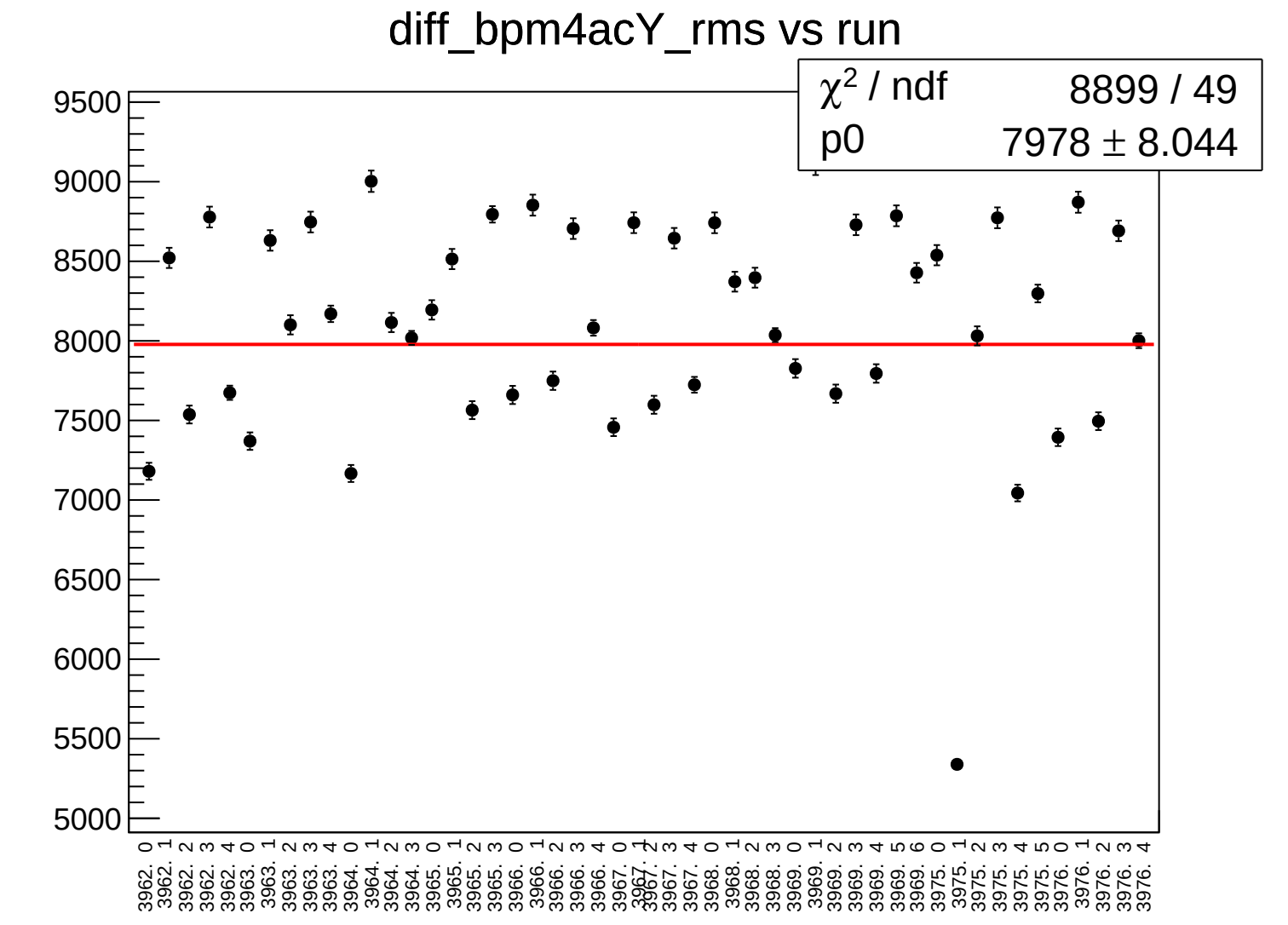
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4acY_rms vs run
χ² / ndf 8899 / 49
p0 7978 ± 8.044
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000
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3962. 1
3962. 2
3962. 3
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3963. 4
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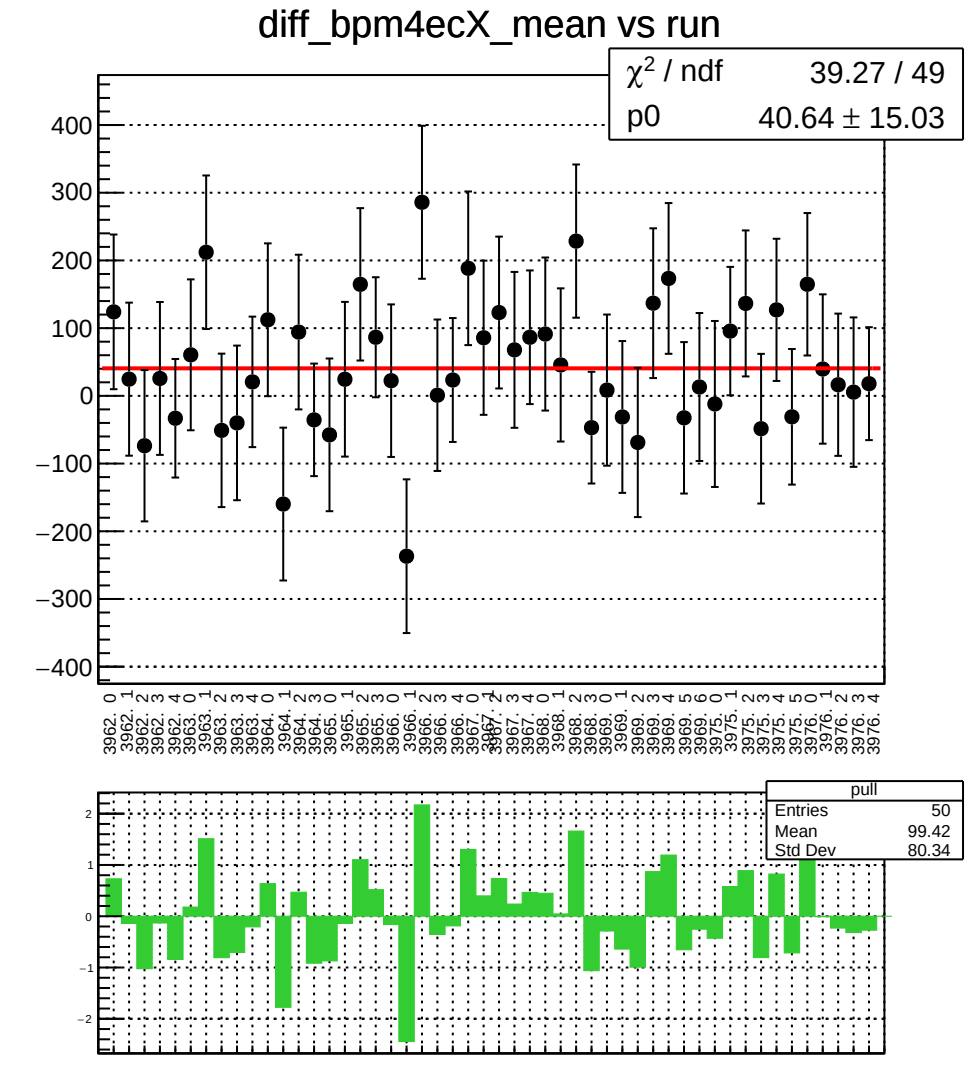
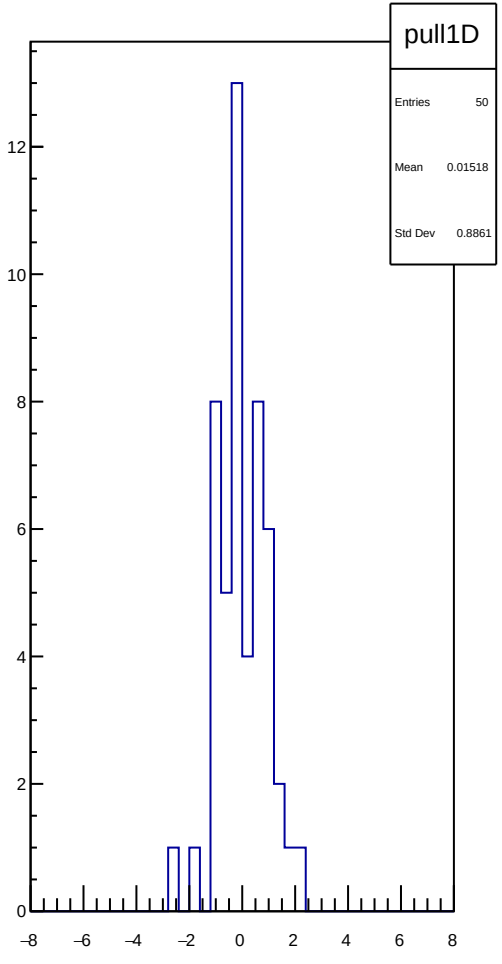
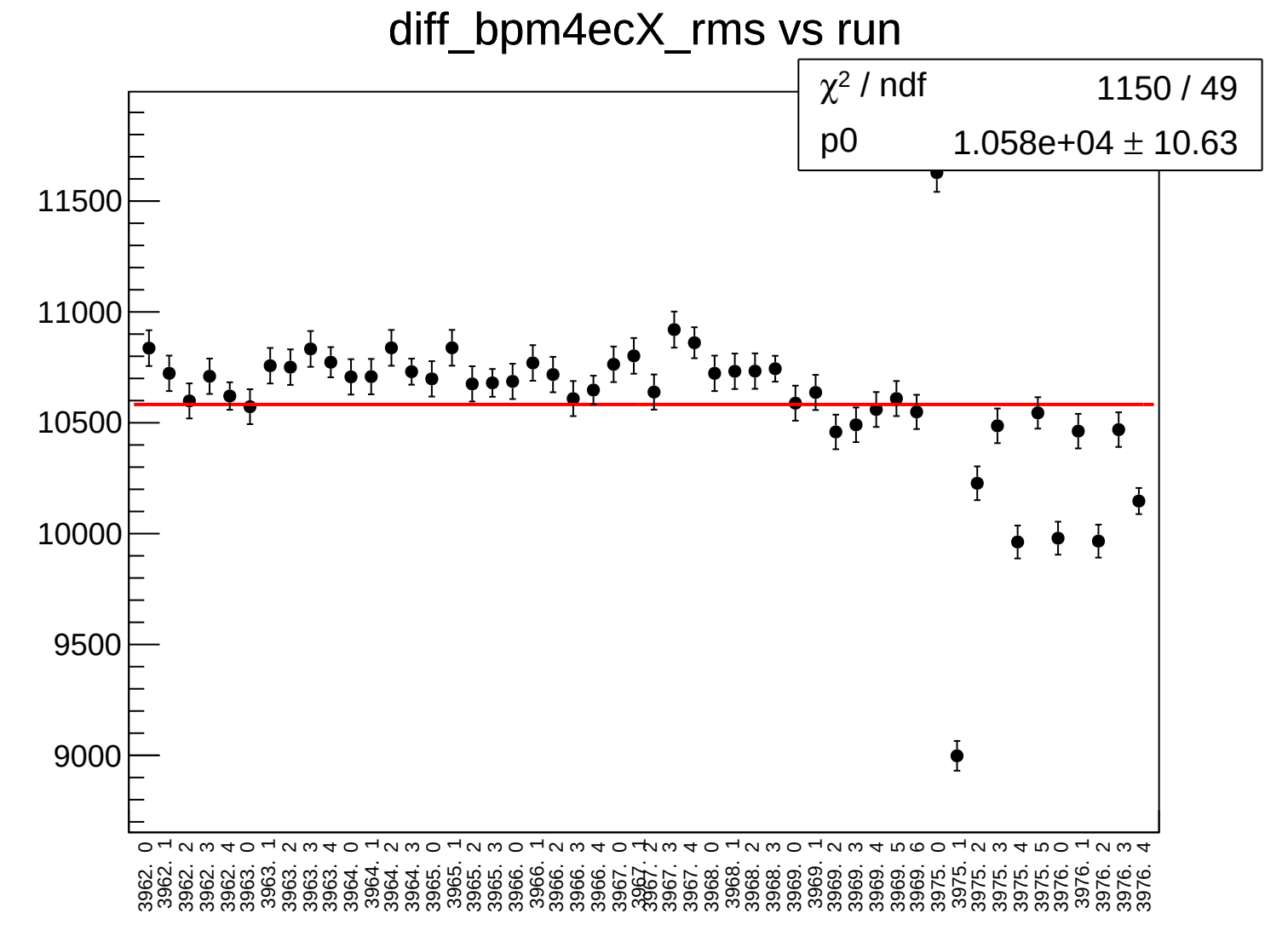

diff_bpm4ecX_mean vs run
χ^2 / ndf 39.27 / 49
p0 40.64 ± 15.03
pull
Entries 50
Mean 99.42
Std Dev 80.34


pull1D
Entries 50
Mean 0.01518
Std Dev 0.8861


diff_bpm4ecX_rms vs run
χ² / ndf 1150 / 49
p0 1.058e+04 ± 10.63
11500
11000
10500
10000
9500
9000
3962. 0
3962. 1
3962. 2
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3962. 4
3963. 0
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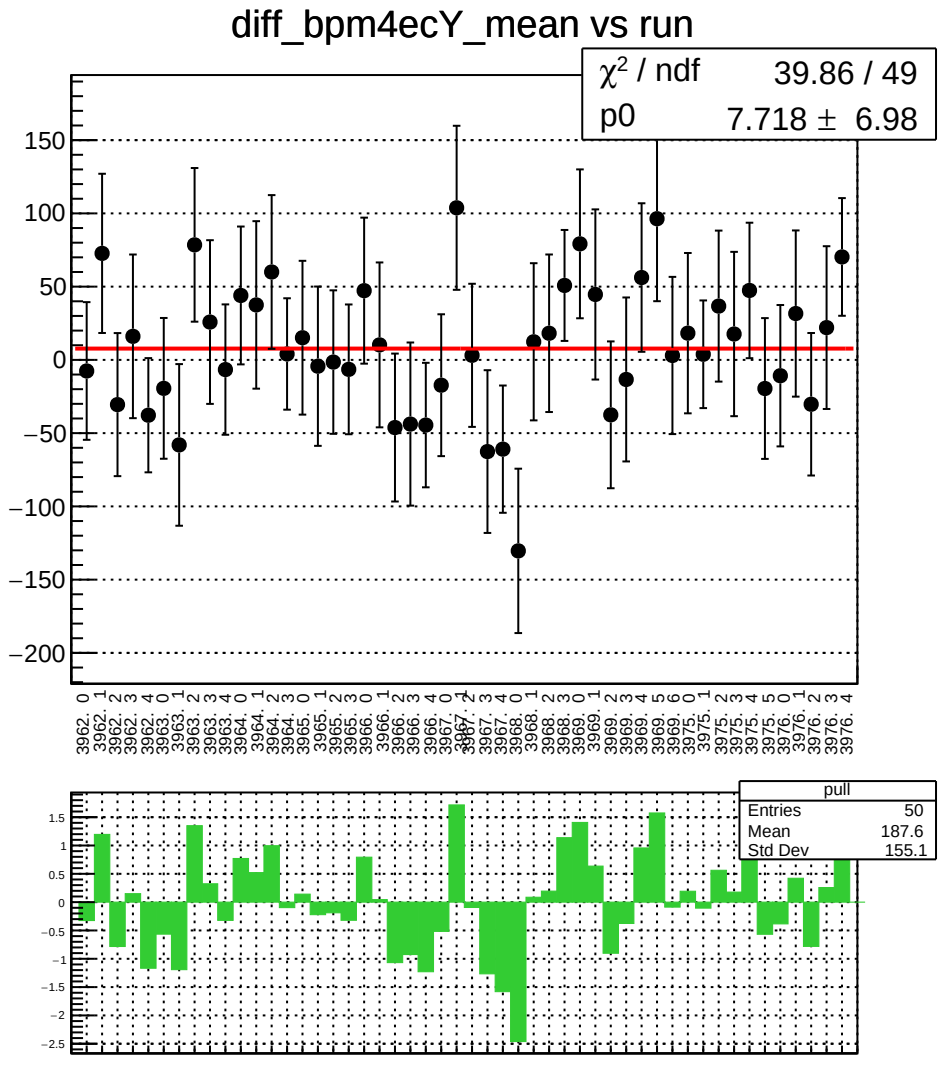
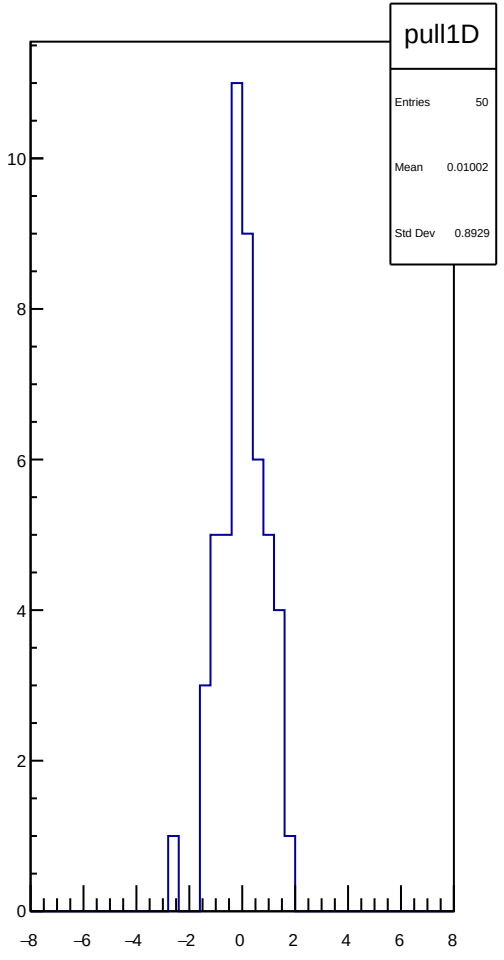
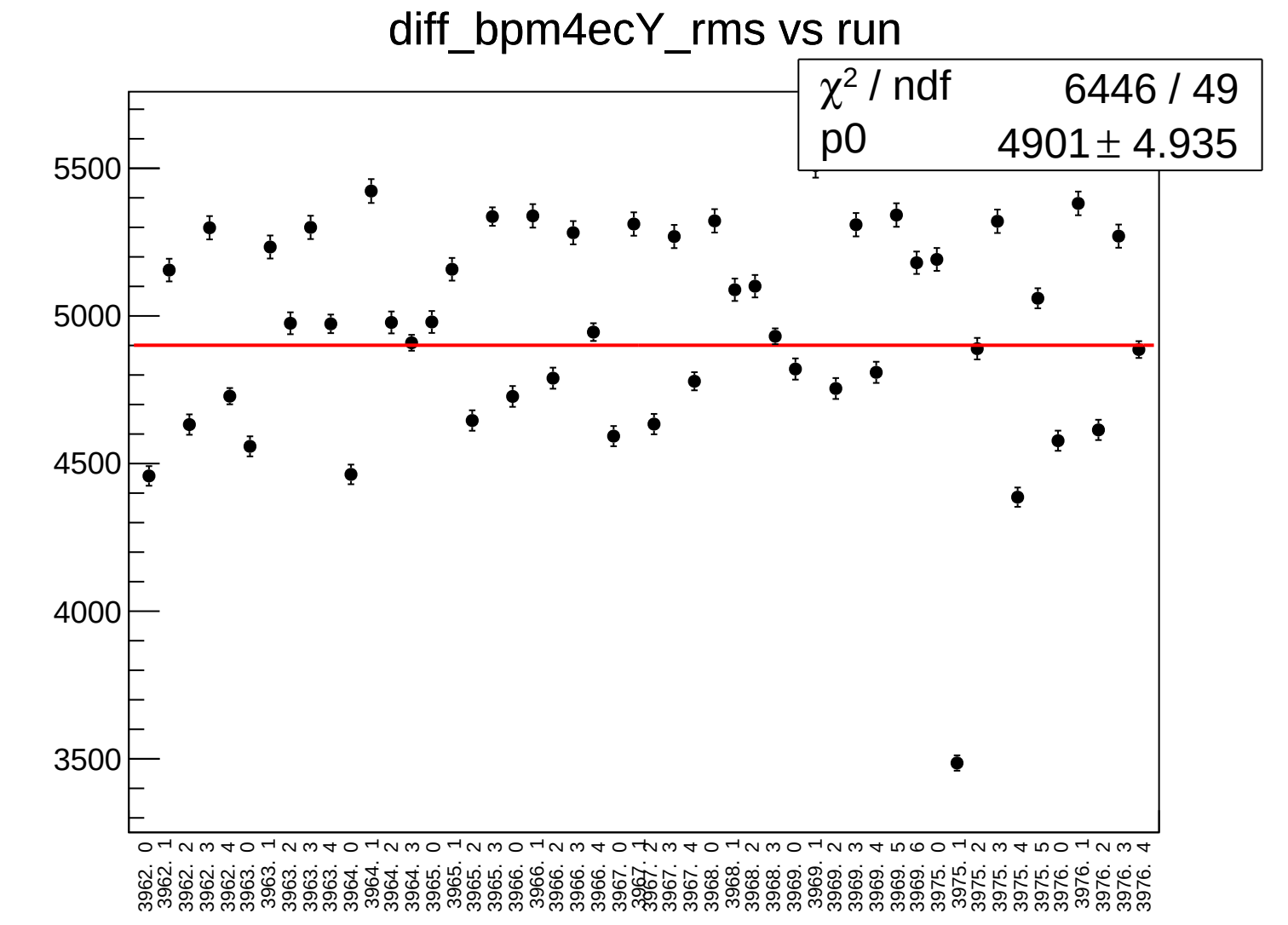

diff_bpm4ecY_mean vs run
χ² / ndf 39.86 / 49
p0 7.718 ± 6.98
pull
Entries 50
Mean 187.6
Std Dev 155.1


pull1D
Entries 50
Mean 0.01002
Std Dev 0.8929


diff_bpm4ecY_rms vs run
χ² / ndf 6446 / 49
p0 4901 ± 4.935
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5000
4500
4000
3500
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3962. 2
3962. 3
3962. 4
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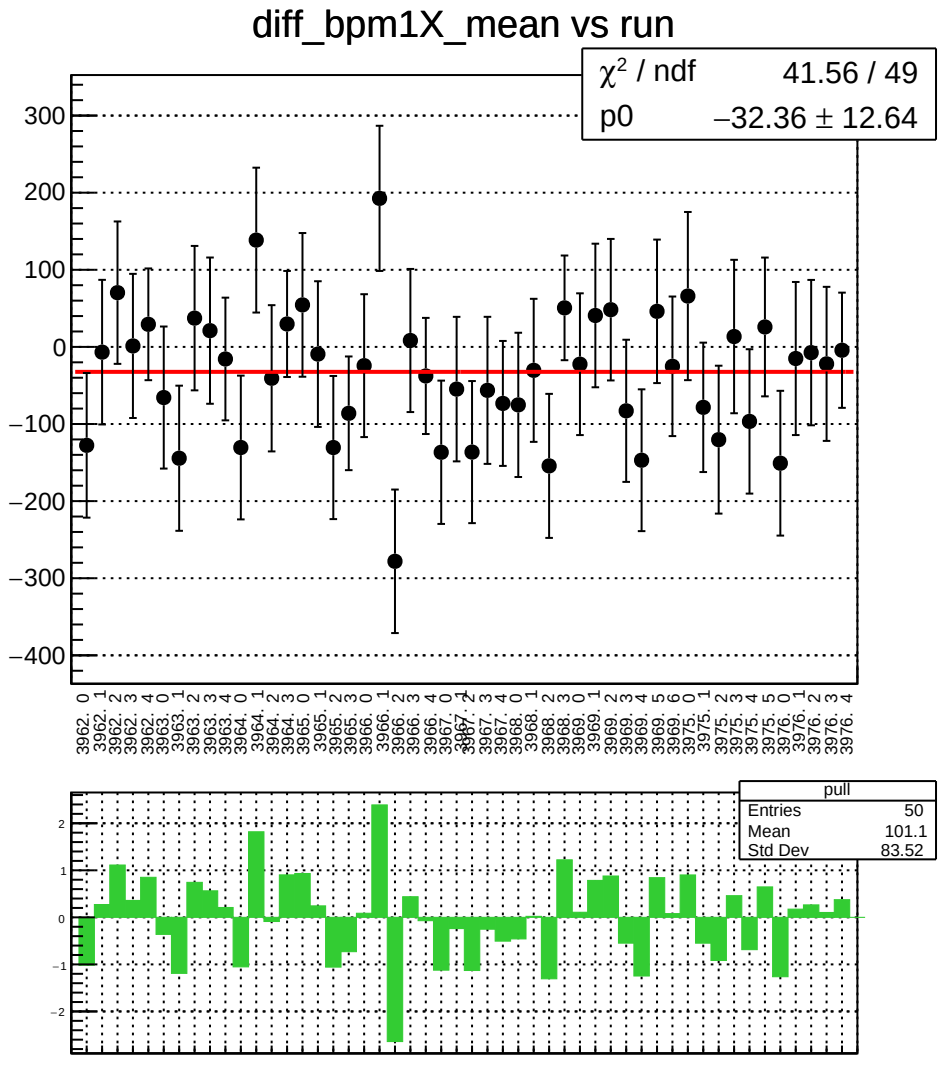
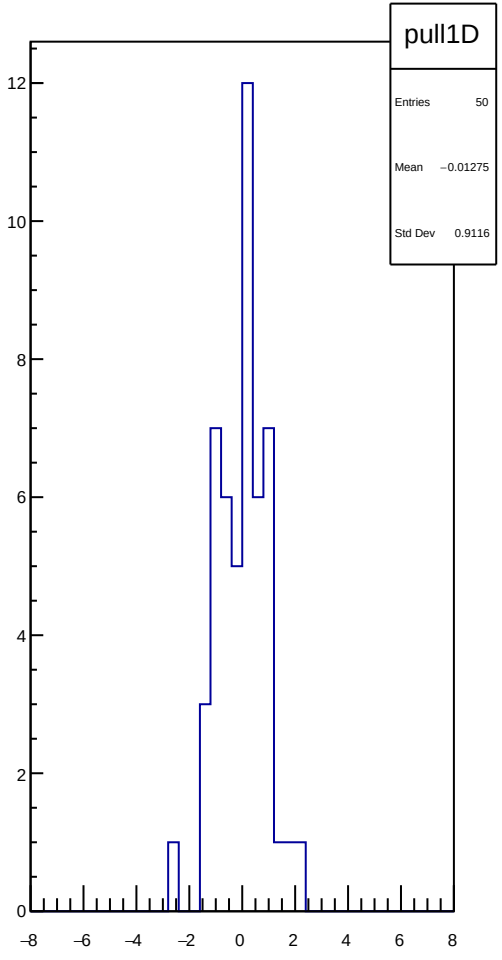
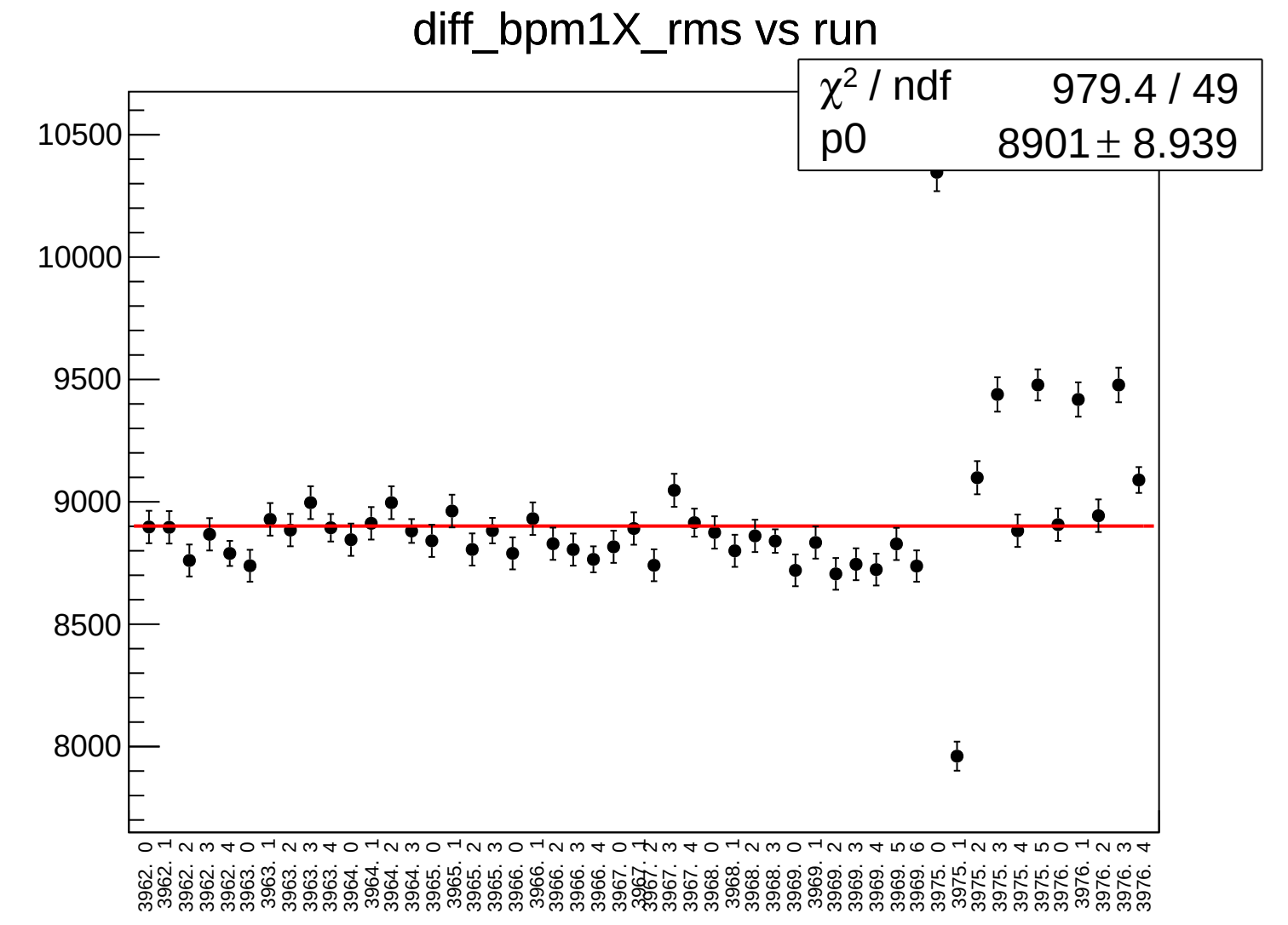
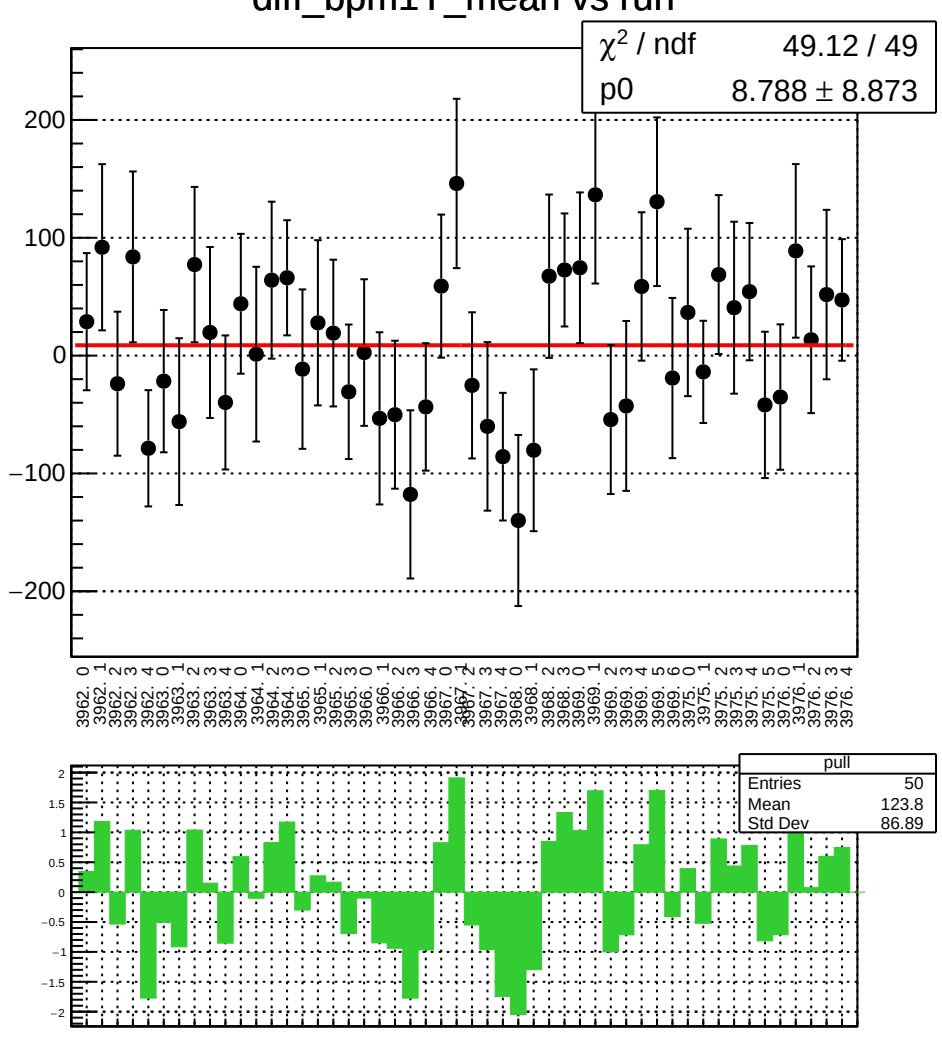
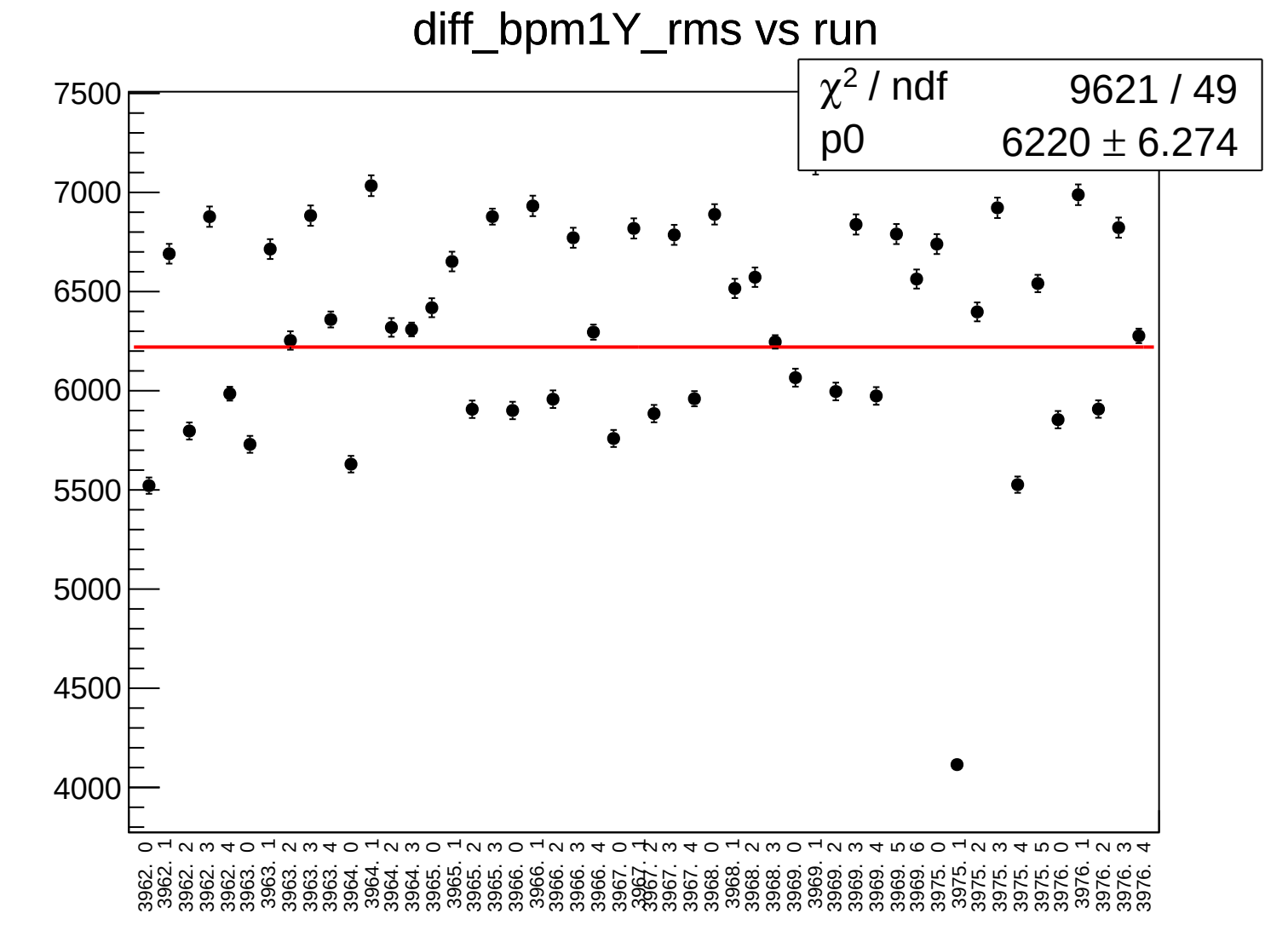
3976. 1
3976. 2
3976. 3
3976. 4

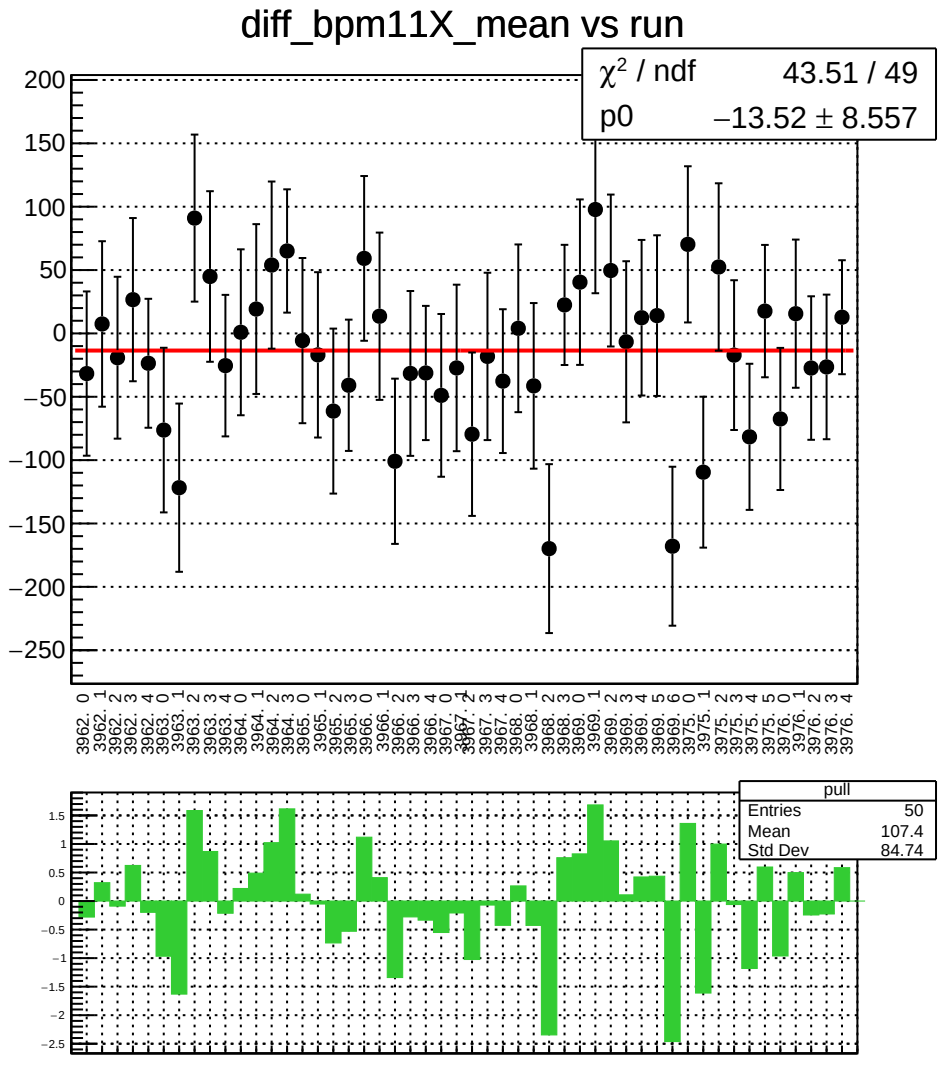

diff_bpm1X_mean vs run
χ² / ndf 41.56 / 49
p0 −32.36 ± 12.64
pull
Entries 50
Mean 101.1
Std Dev 83.52

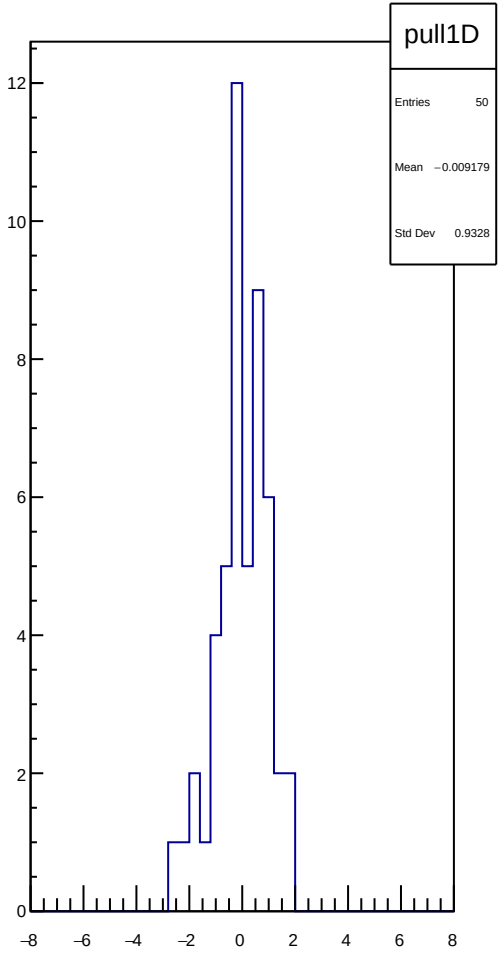

pull1D
Entries 50
Mean −0.01275
Std Dev 0.9116

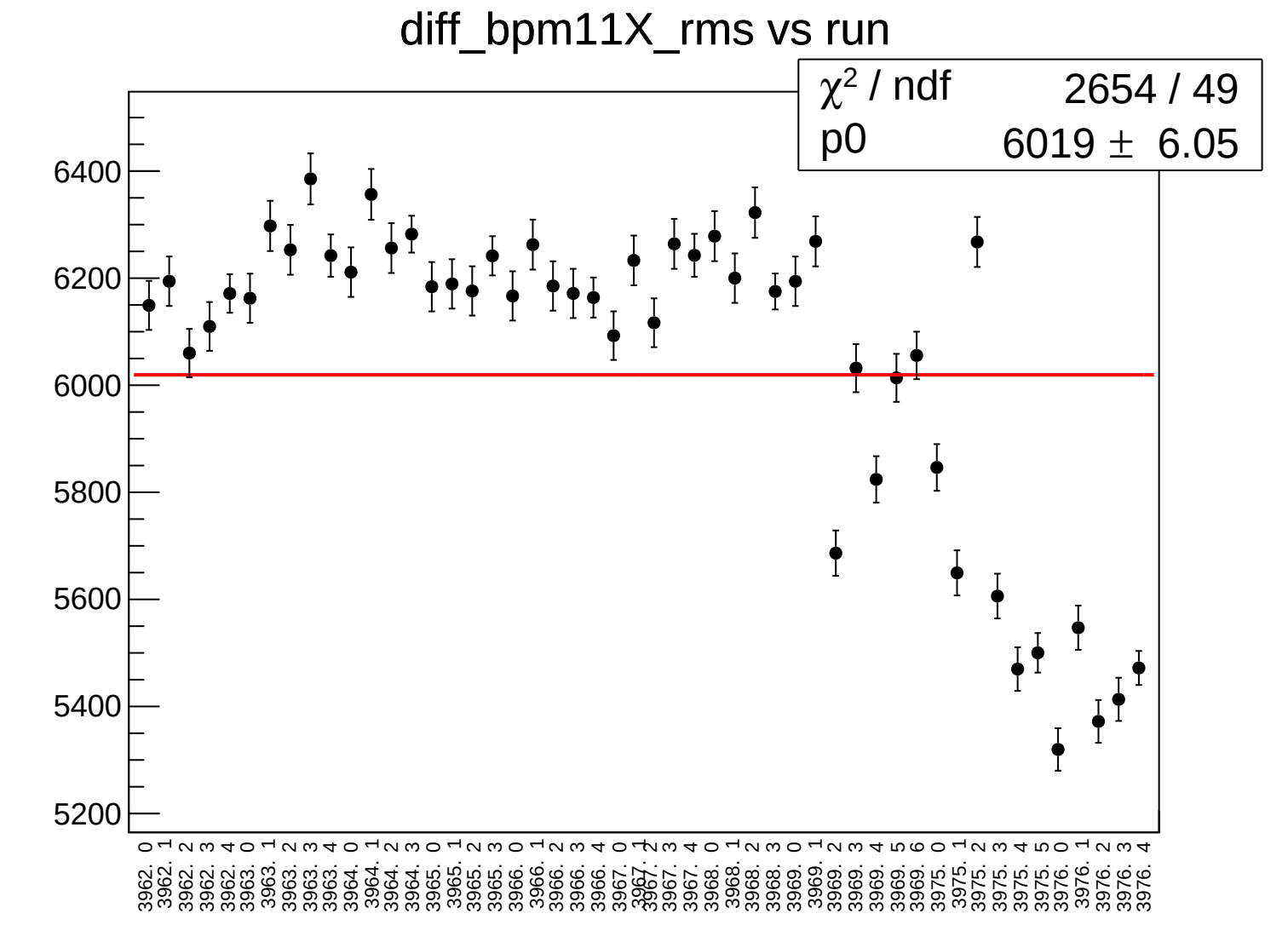

diff_bpm1X_rms vs run
χ² / ndf 979.4 / 49
p0 8901 ± 8.939
10500
10000
9500
9000
8500
8000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

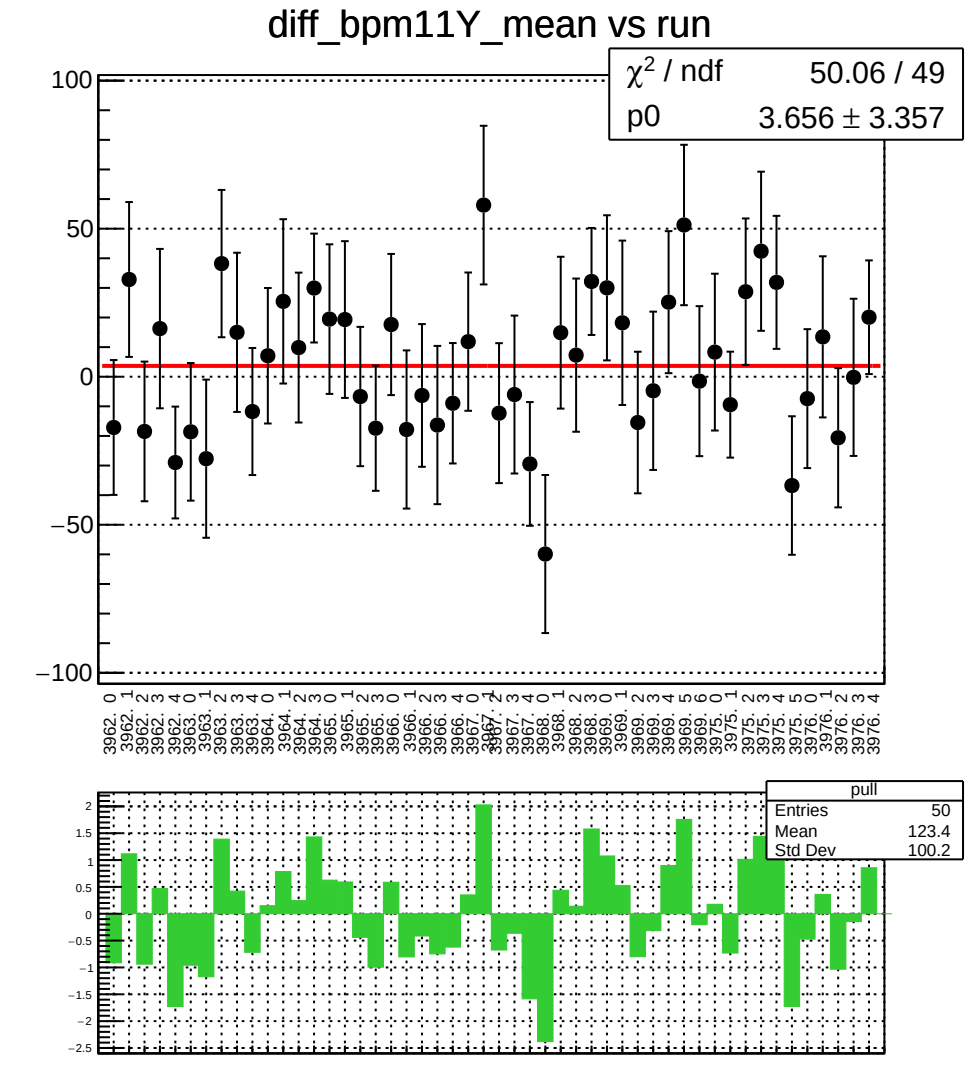

diff_bpm1Y_mean vs run
χ^2 / ndf 49.12 / 49
p0 8.788 ± 8.873
200
100
0
−100
−200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 123.8
Std Dev 86.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.01701
Std Dev 0.991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

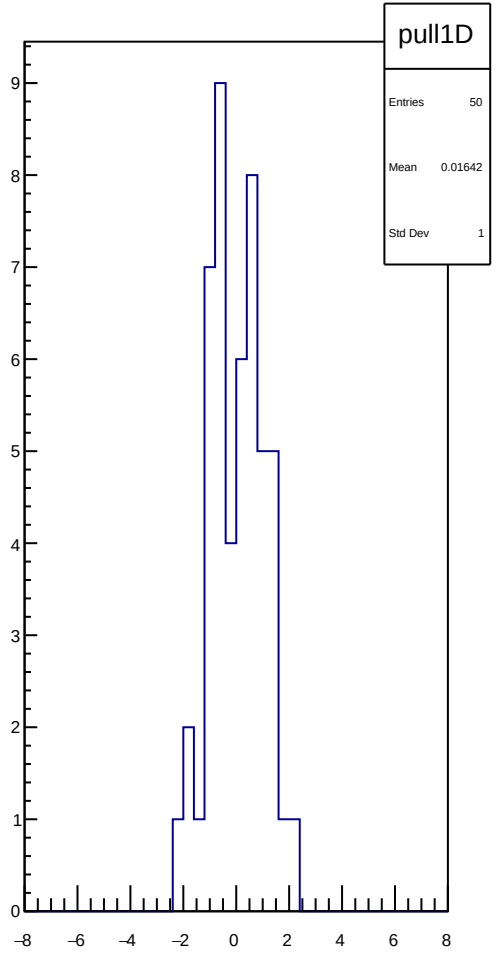

diff_bpm1Y_rms vs run
χ² / ndf 9621 / 49
p0 6220 ± 6.274
7500
7000
6500
6000
5500
5000
4500
4000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

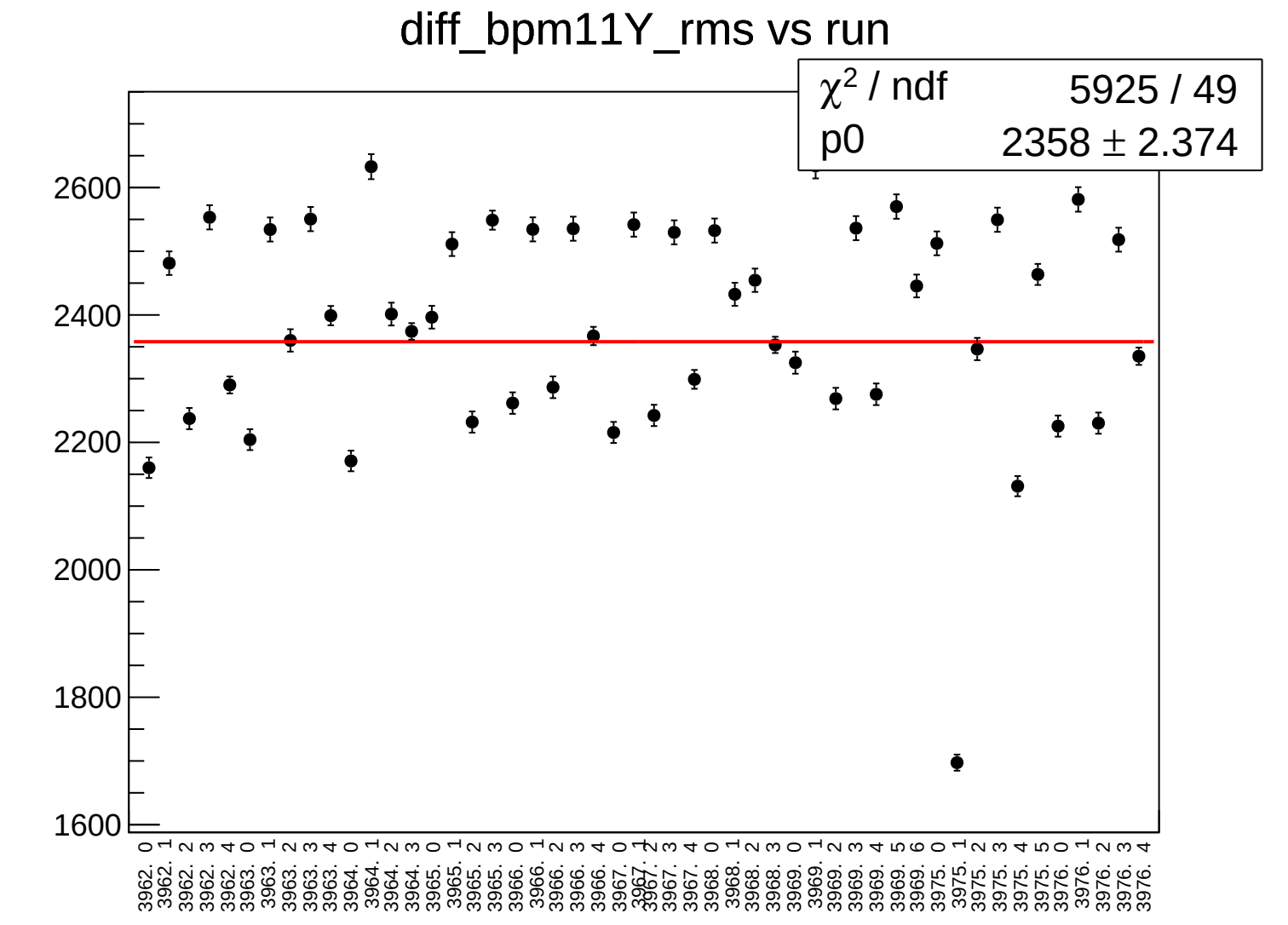

diff_bpm11X_mean vs run
χ² / ndf 43.51 / 49
p0 −13.52 ± 8.557
pull
Entries 50
Mean 107.4
Std Dev 84.74

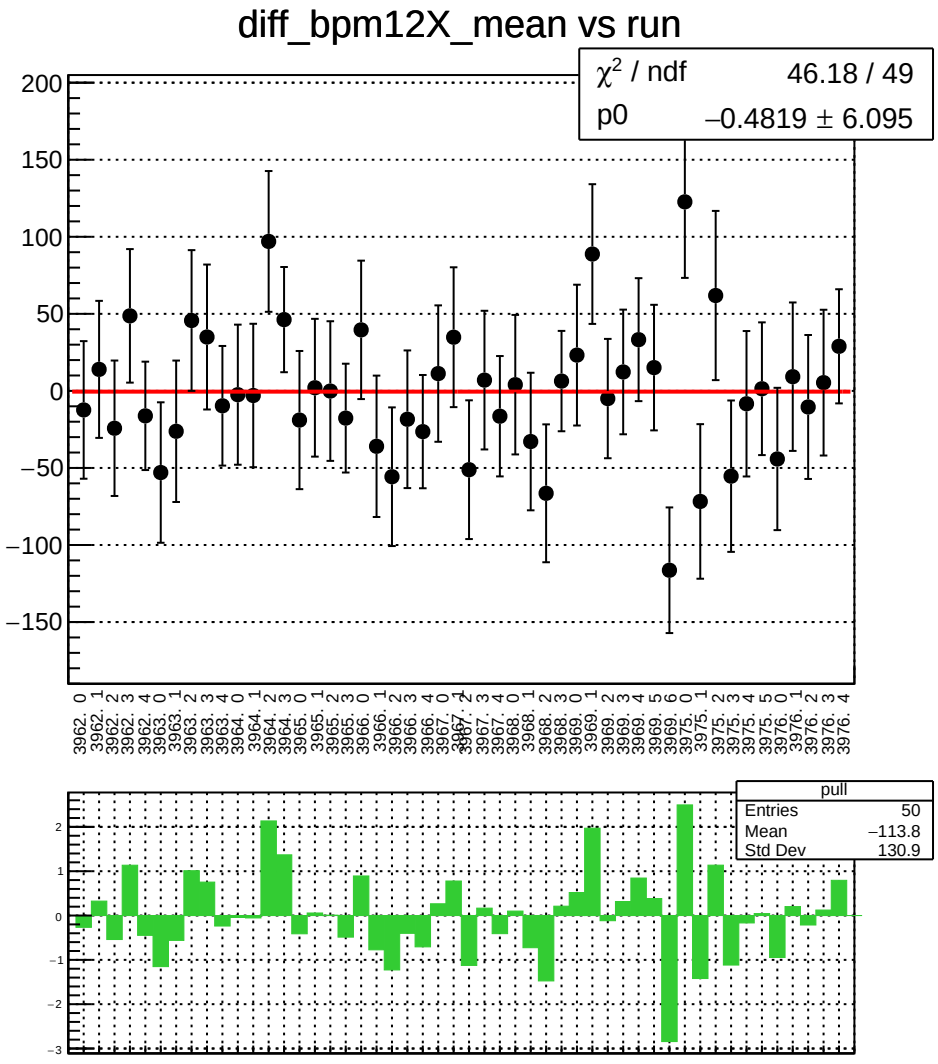

pull1D
Entries 50
Mean −0.009179
Std Dev 0.9328

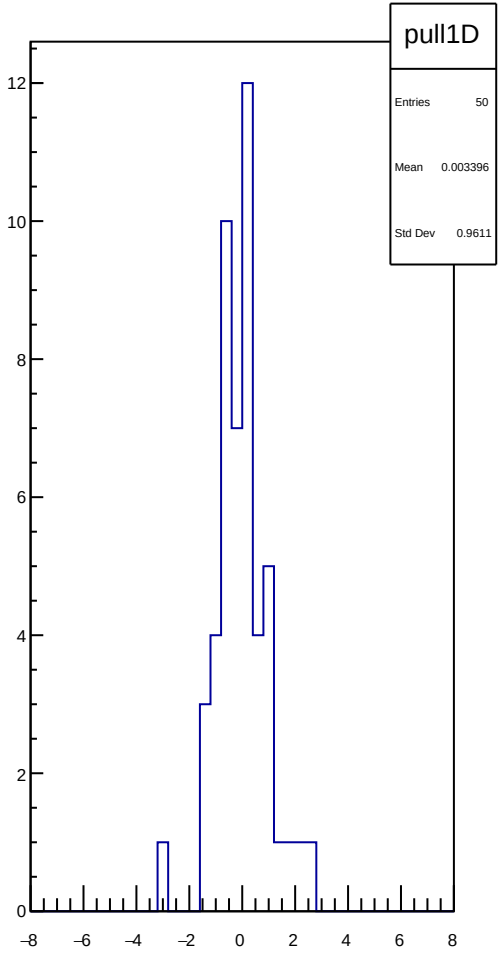

diff_bpm11X_rms vs run
χ² / ndf 2654 / 49
p0 6019 ± 6.05
6400
6200
6000
5800
5600
5400
5200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

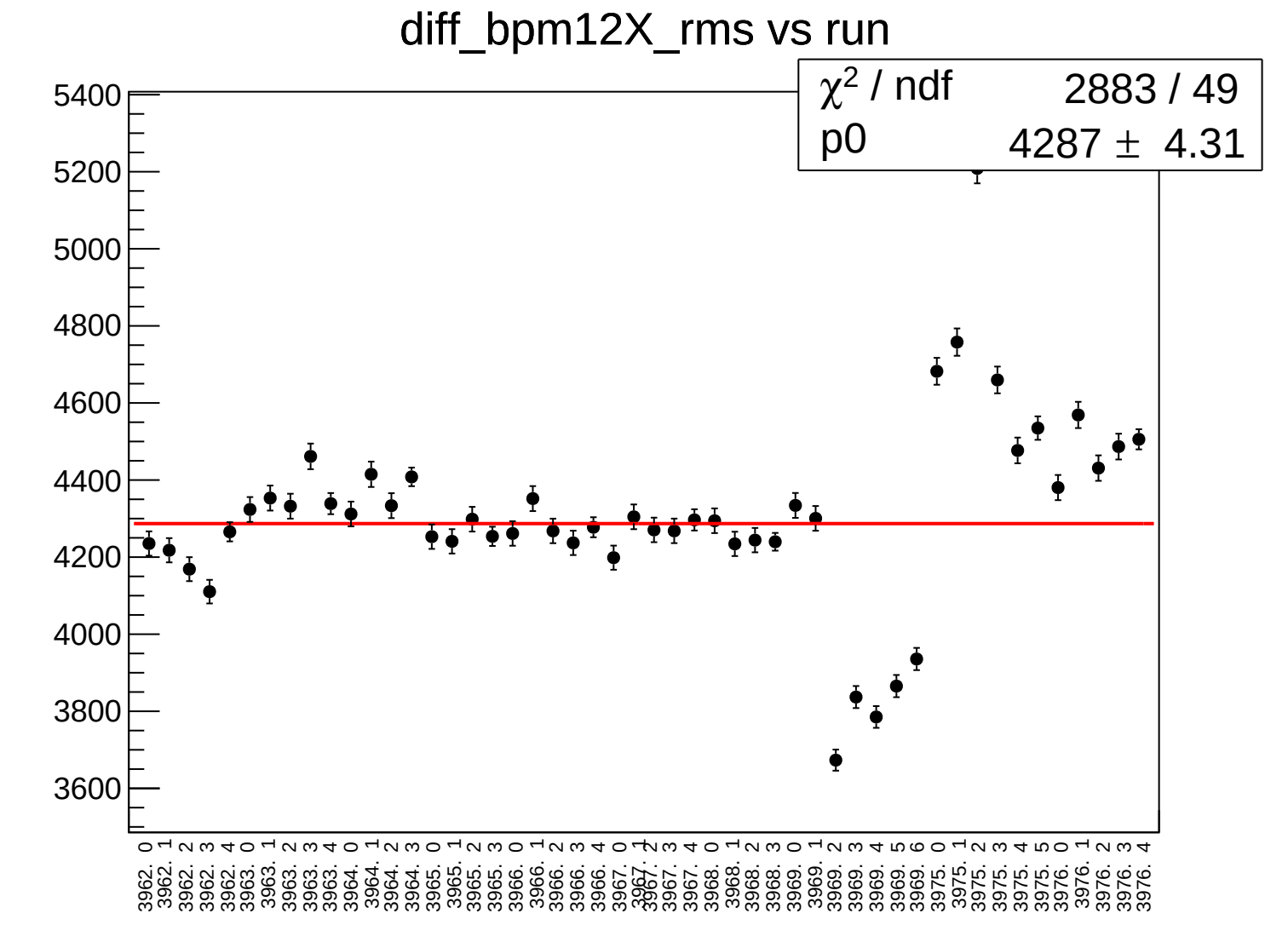

diff_bpm11Y_mean vs run
χ² / ndf 50.06 / 49
p0 3.656 ± 3.357
100
50
0
−50
−100
pull
Entries 50
Mean 123.4
Std Dev 100.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

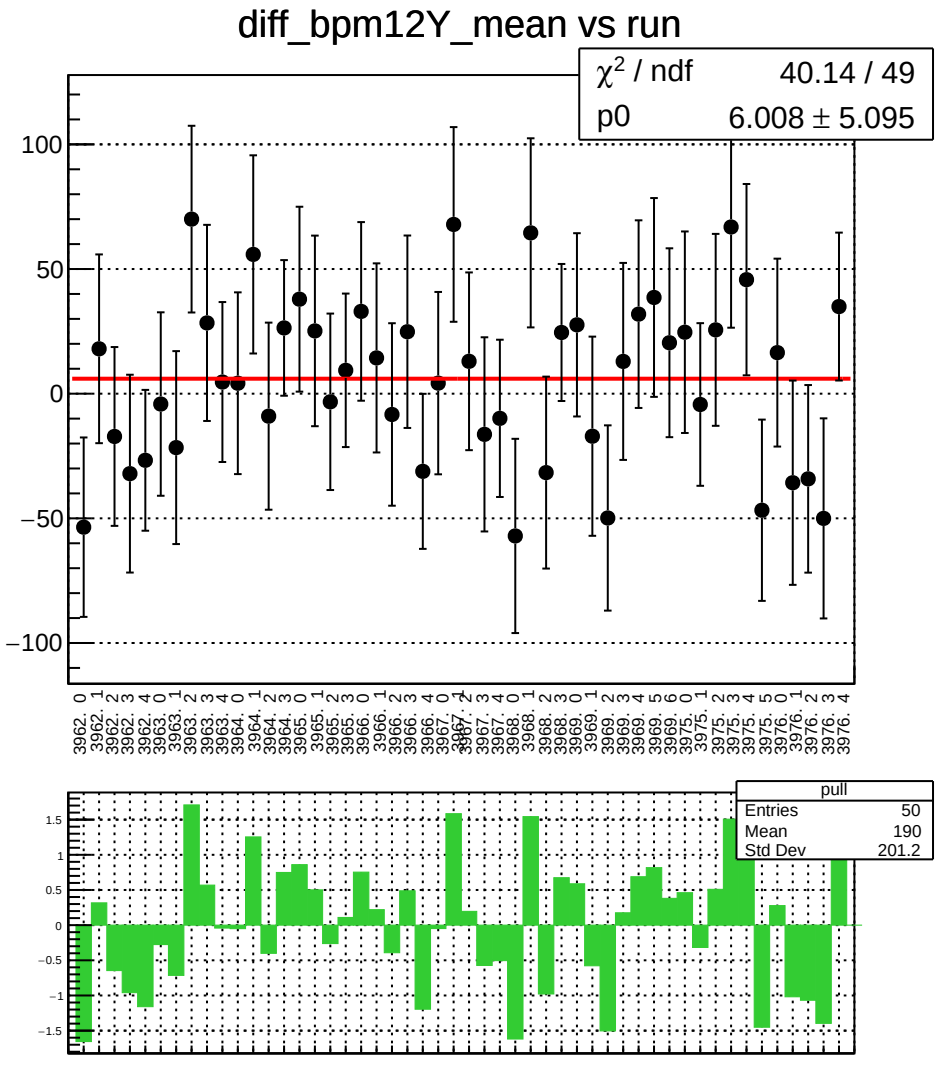

pull1D
Entries 50
Mean 0.01642
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

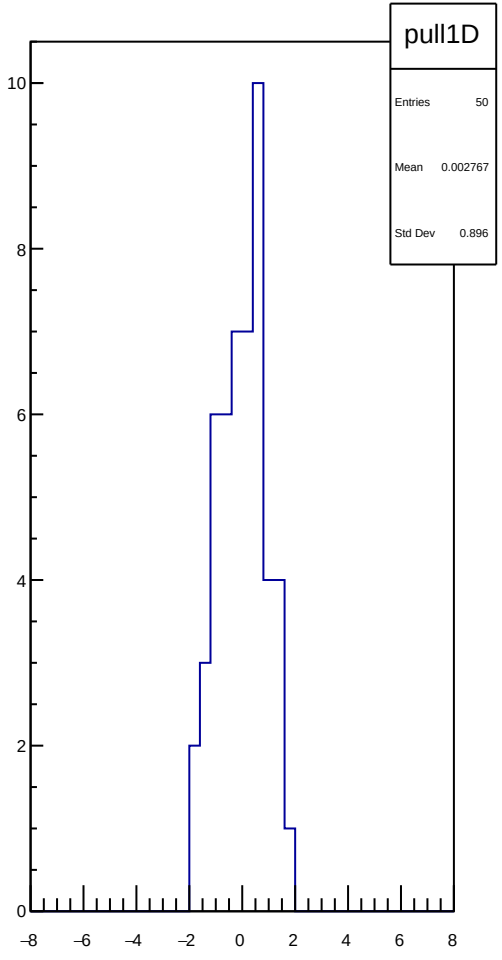

diff_bpm11Y_rms vs run
χ² / ndf 5925 / 49
p0 2358 ± 2.374
2600
2400
2200
2000
1800
1600
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

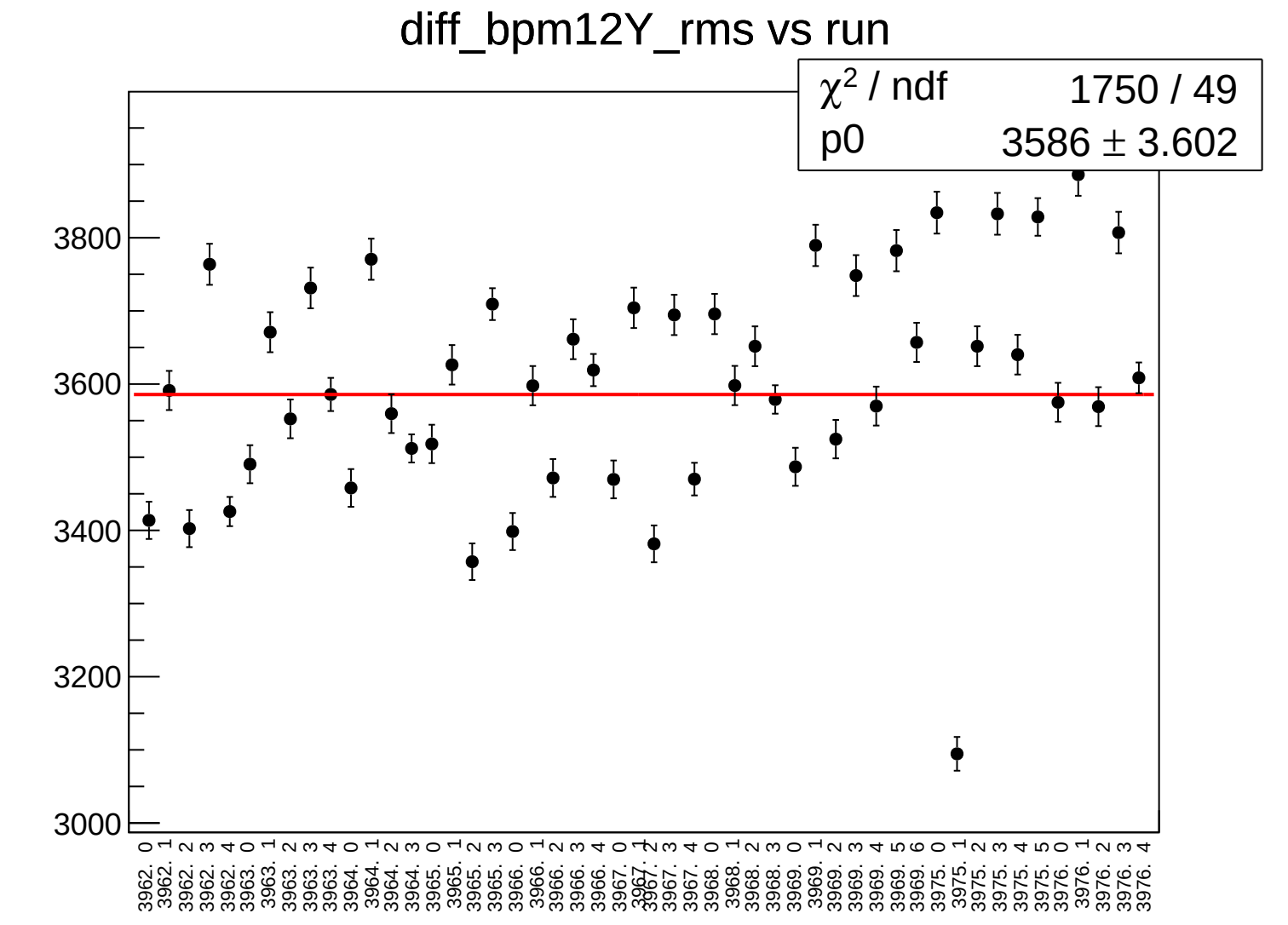

diff_bpm12X_mean vs run
χ² / ndf 46.18 / 49
p0 −0.4819 ± 6.095
pull
Entries 50
Mean −113.8
Std Dev 130.9

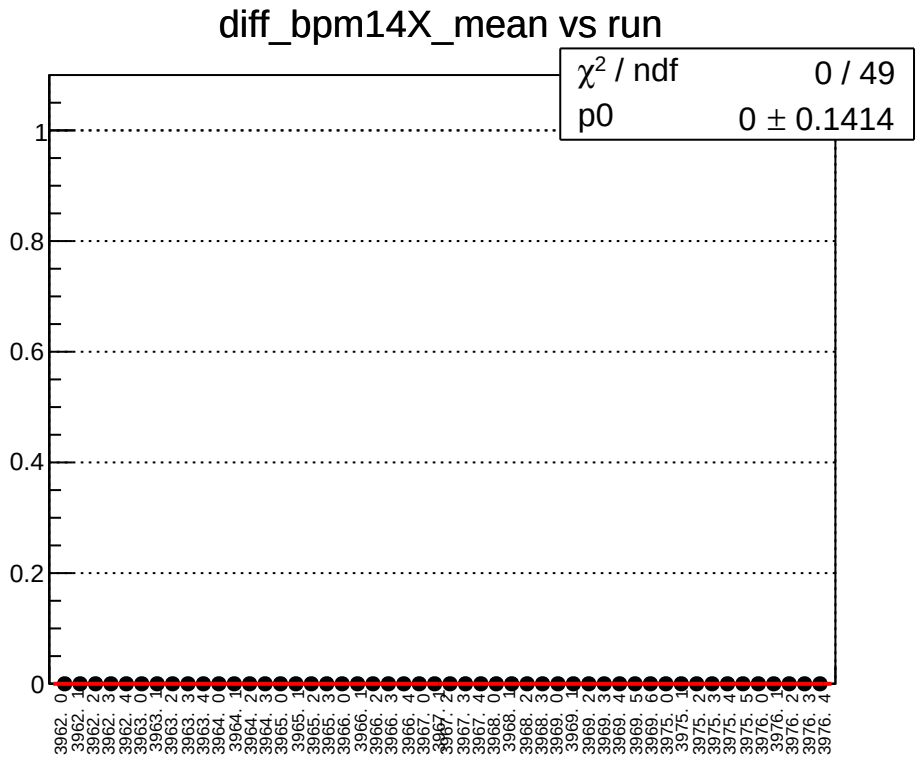

pull1D
Entries 50
Mean 0.003396
Std Dev 0.9611

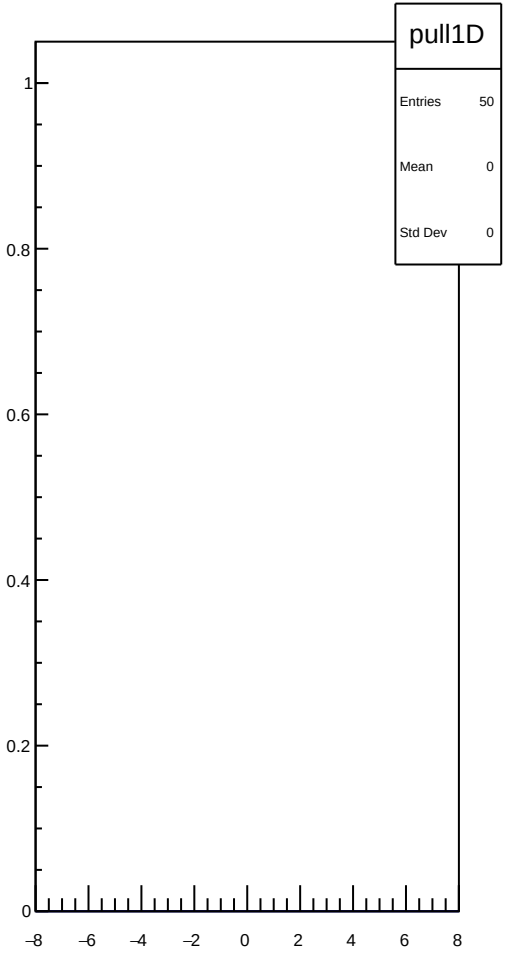

diff_bpm12X_rms vs run
χ² / ndf 2883 / 49
p0 4287 ± 4.31
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

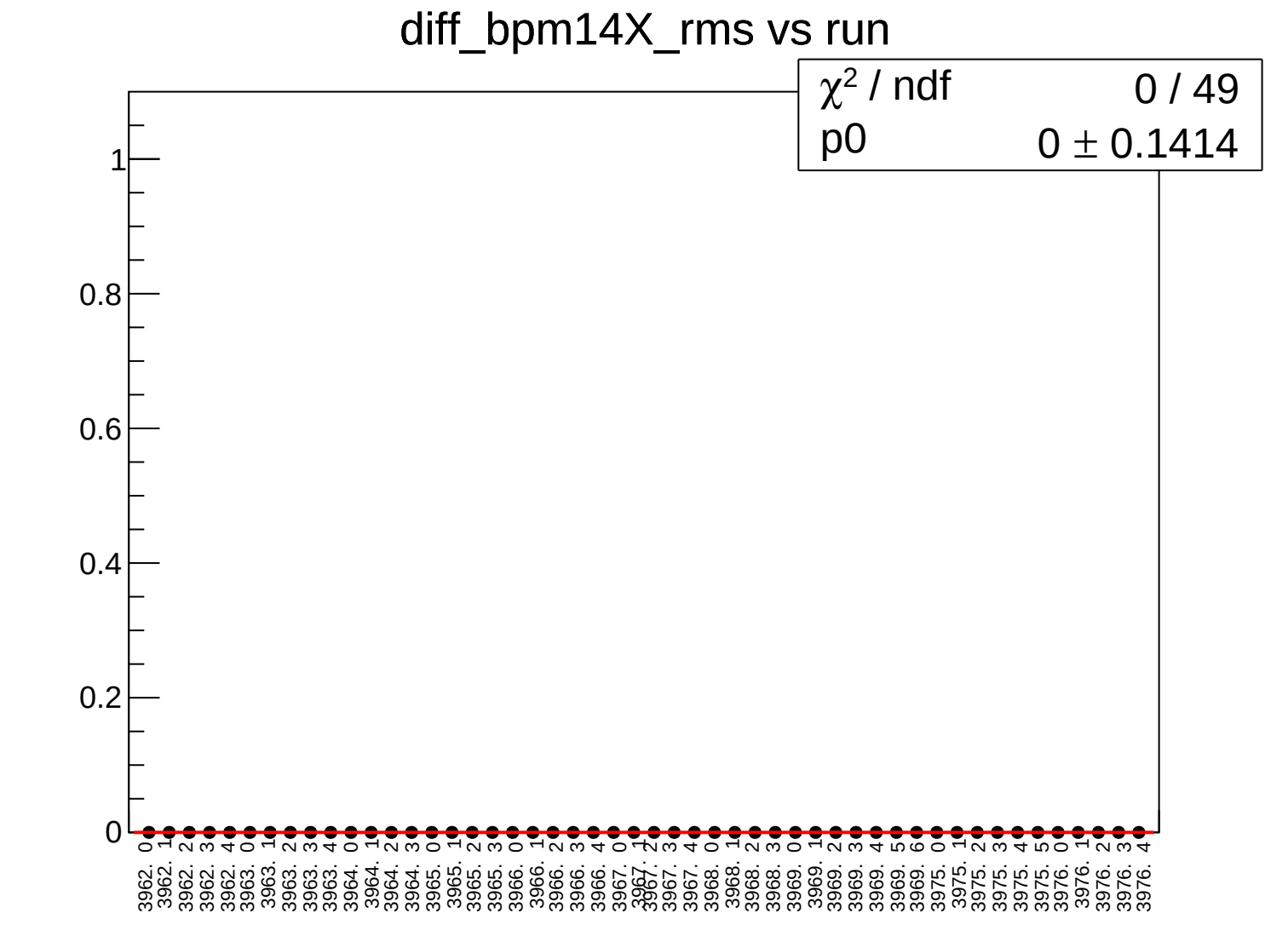

diff_bpm12Y_mean vs run
χ^2 / ndf 40.14 / 49
p0 6.008 ± 5.095
100
50
0
−50
−100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 190
Std Dev 201.2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean 0.002767
Std Dev 0.896
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm12Y_rms vs run
χ² / ndf 1750 / 49
p0 3586 ± 3.602
3800
3600
3400
3200
3000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


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


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


diff_bpm14X_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
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3964. 1
3964. 2
3964. 3
3965. 0
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3965. 2
3965. 3
3966. 0
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3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
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3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
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3969. 4
3969. 5
3969. 6
3975. 0
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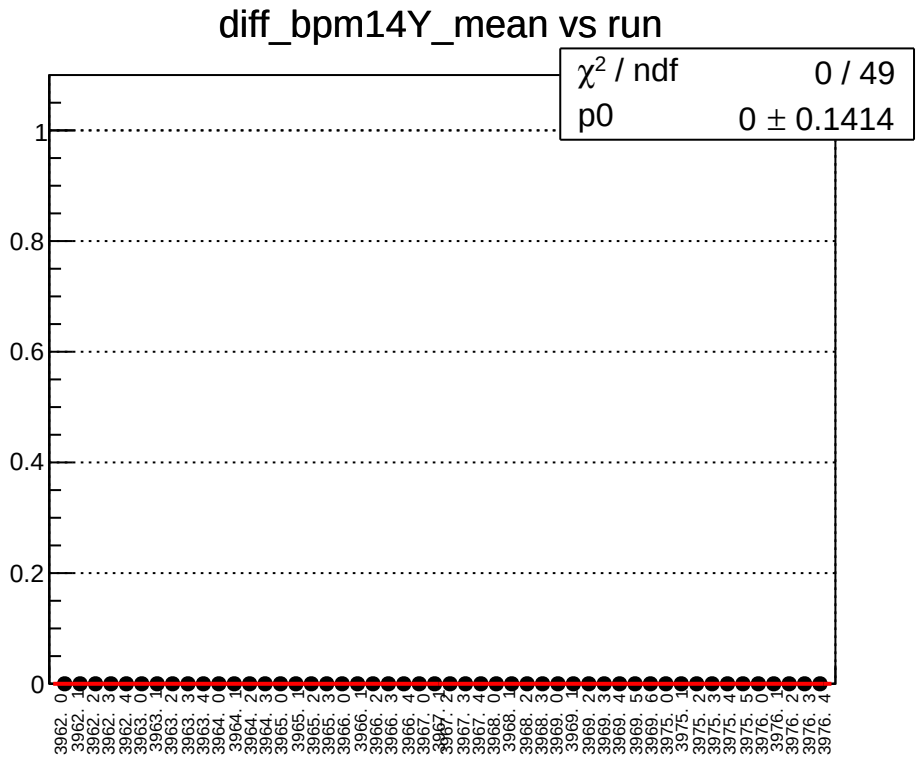
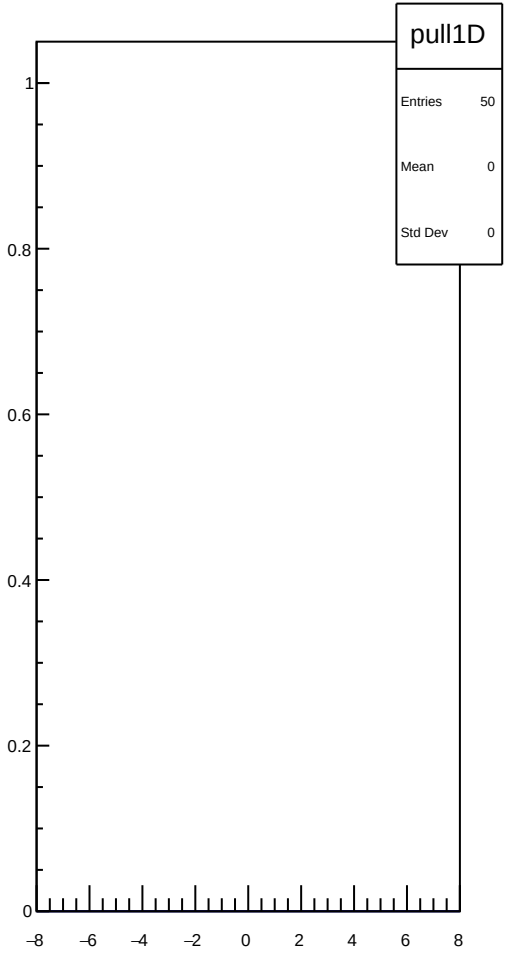
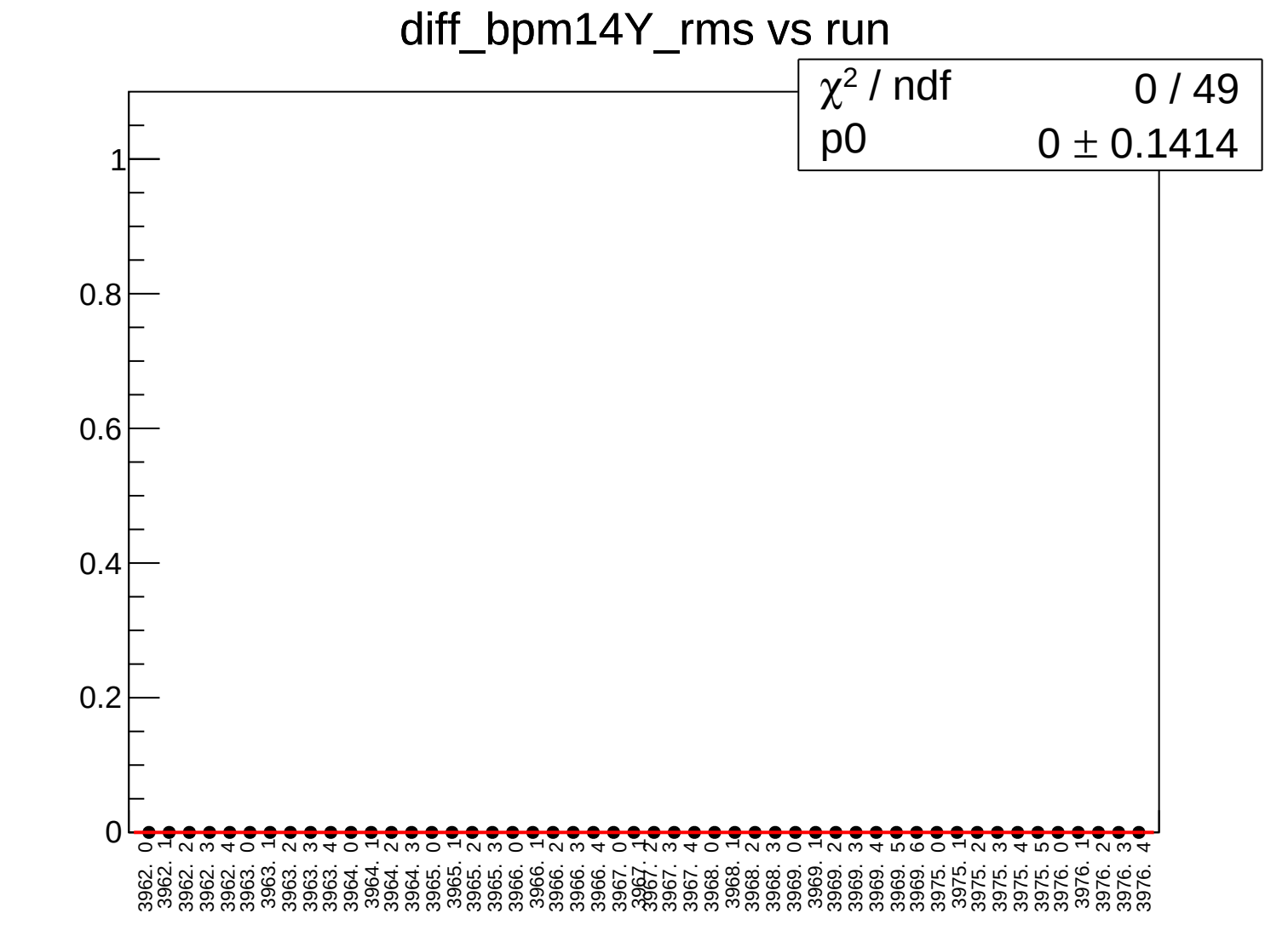
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


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


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


diff_bpm14Y_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
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3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
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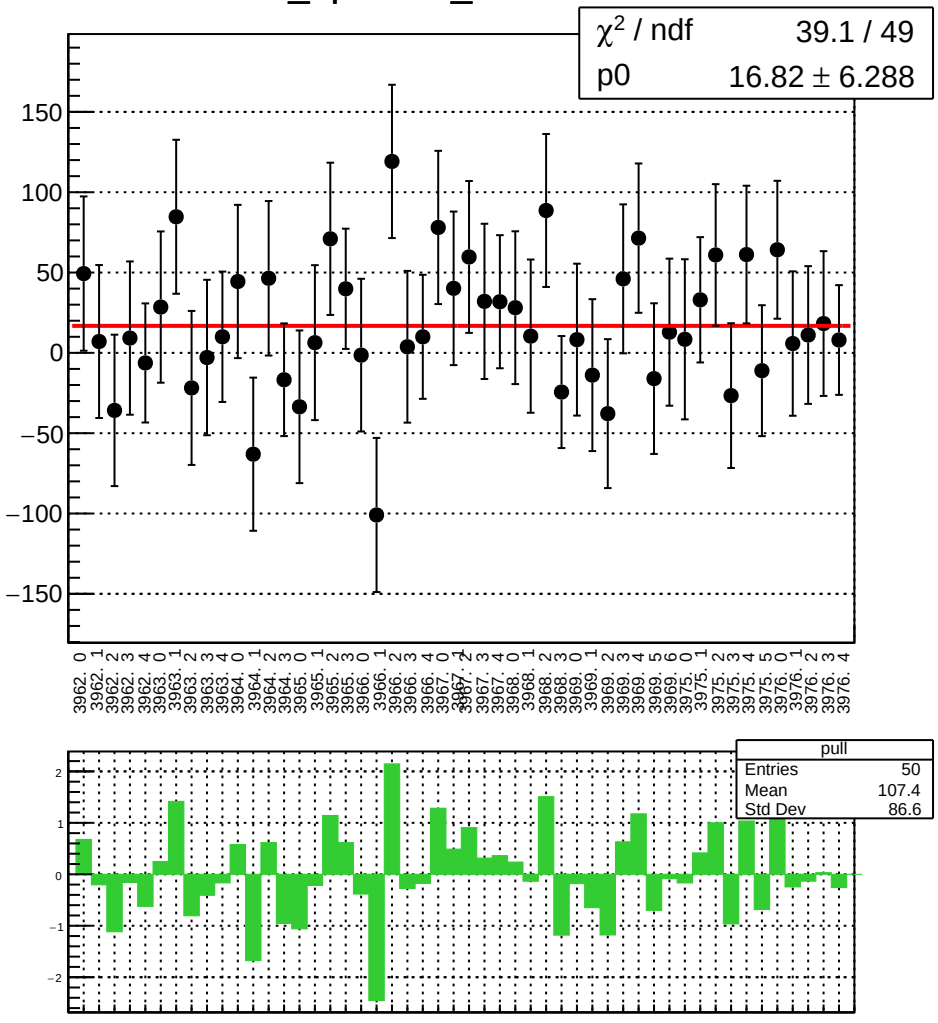
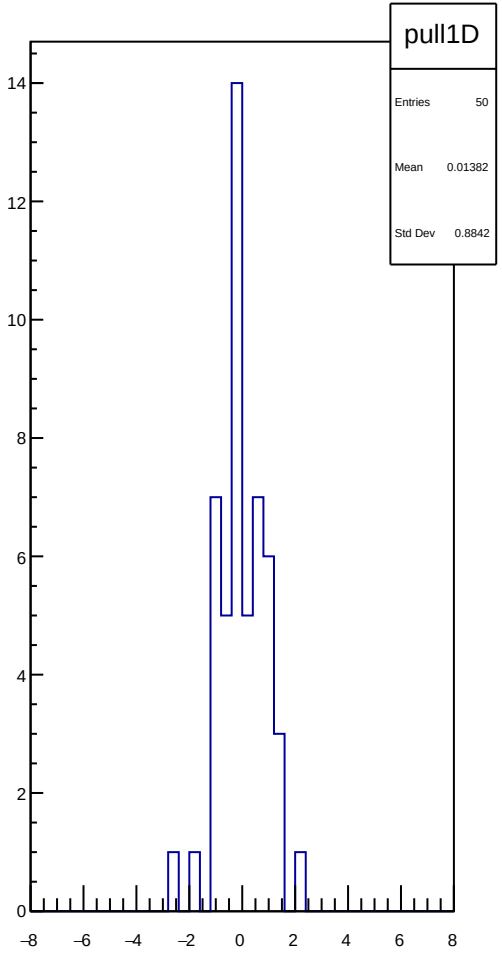
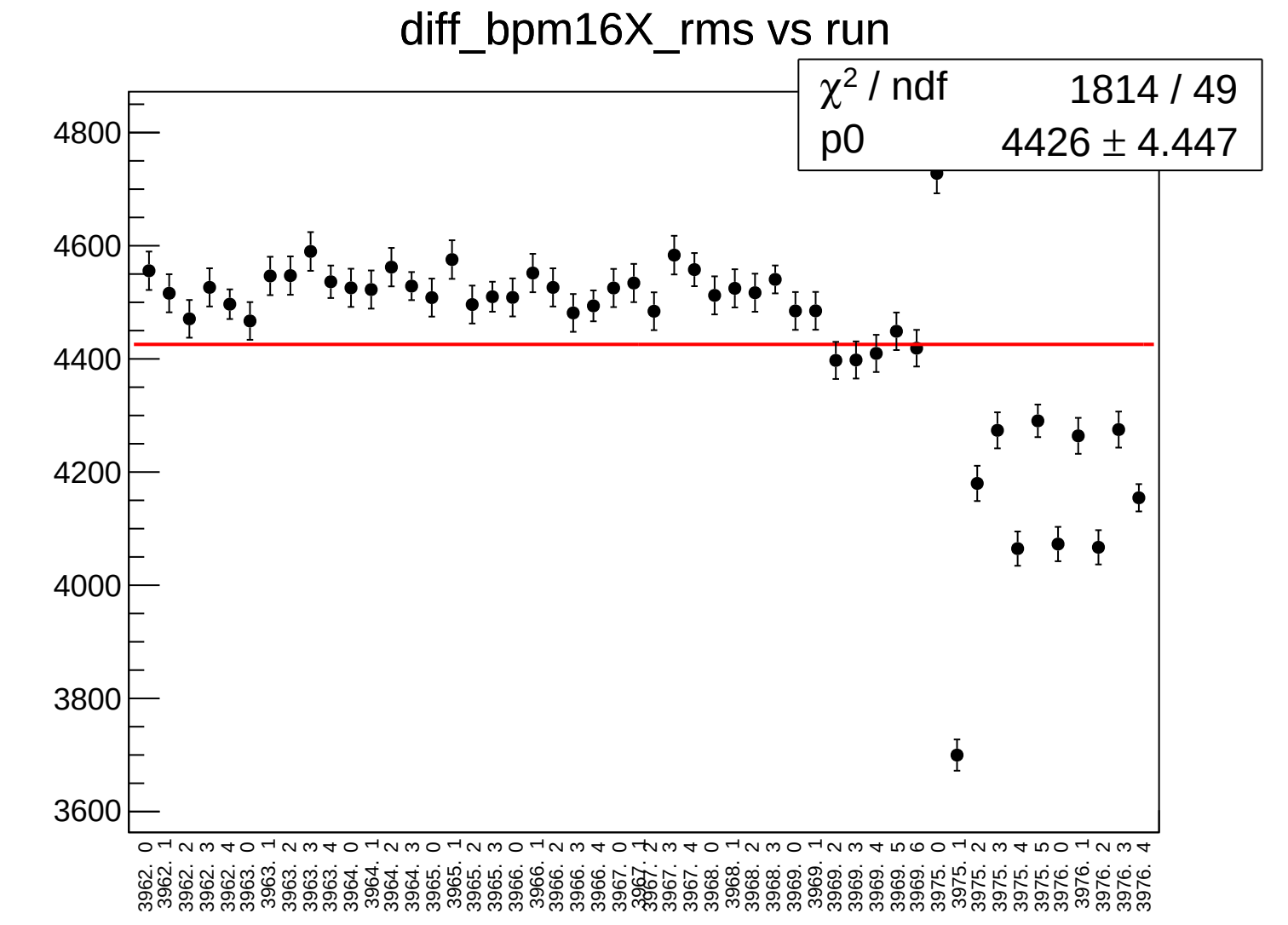
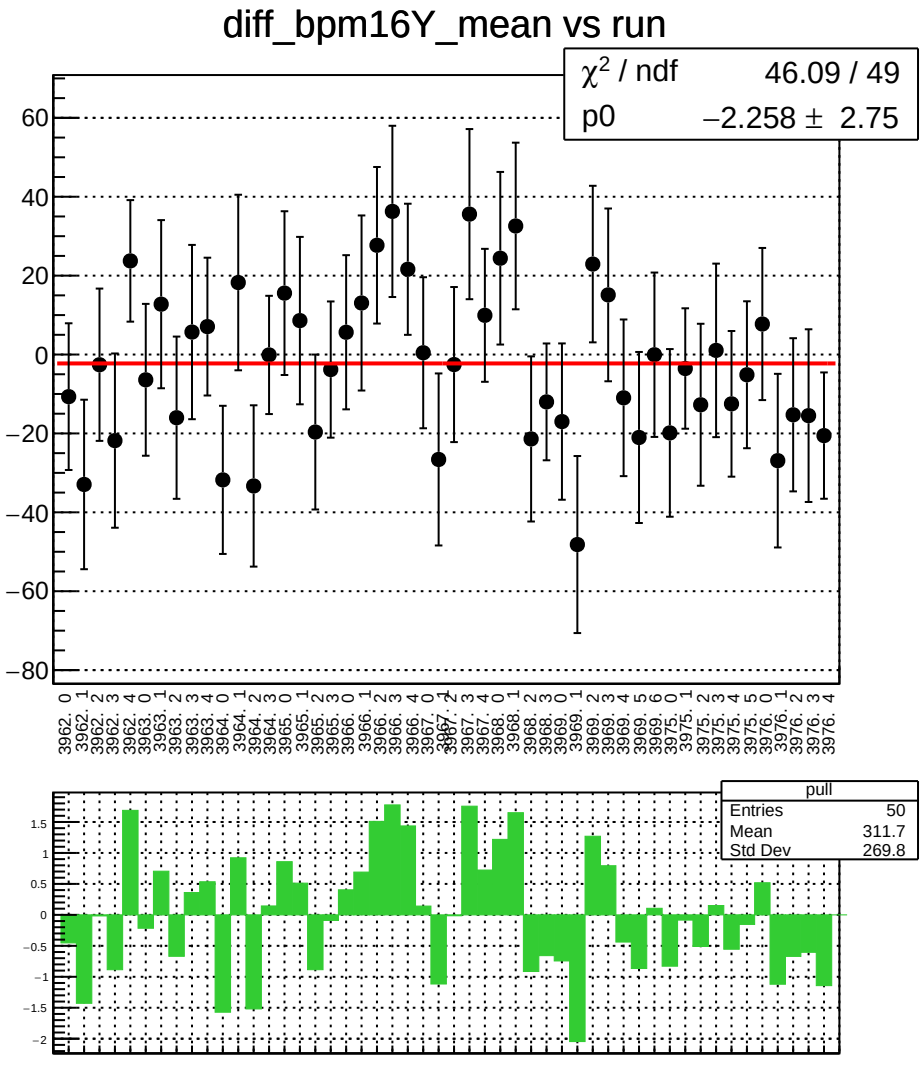
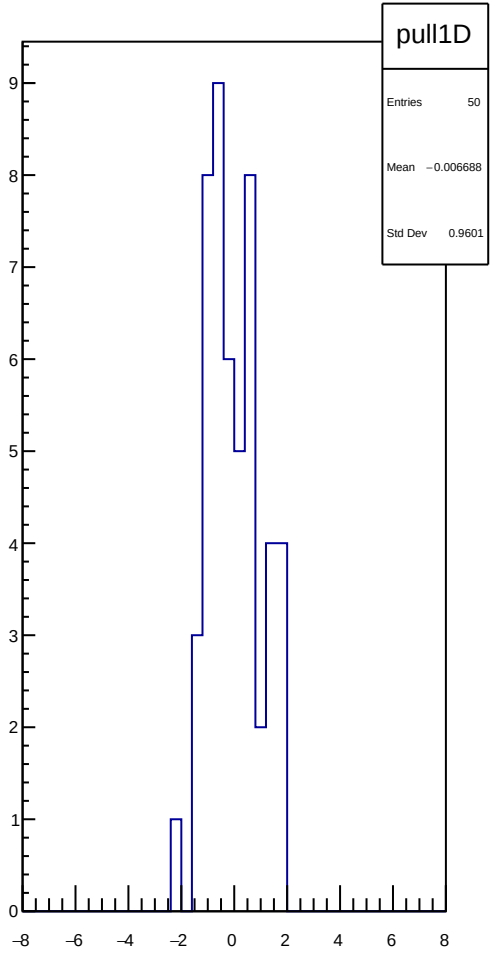
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

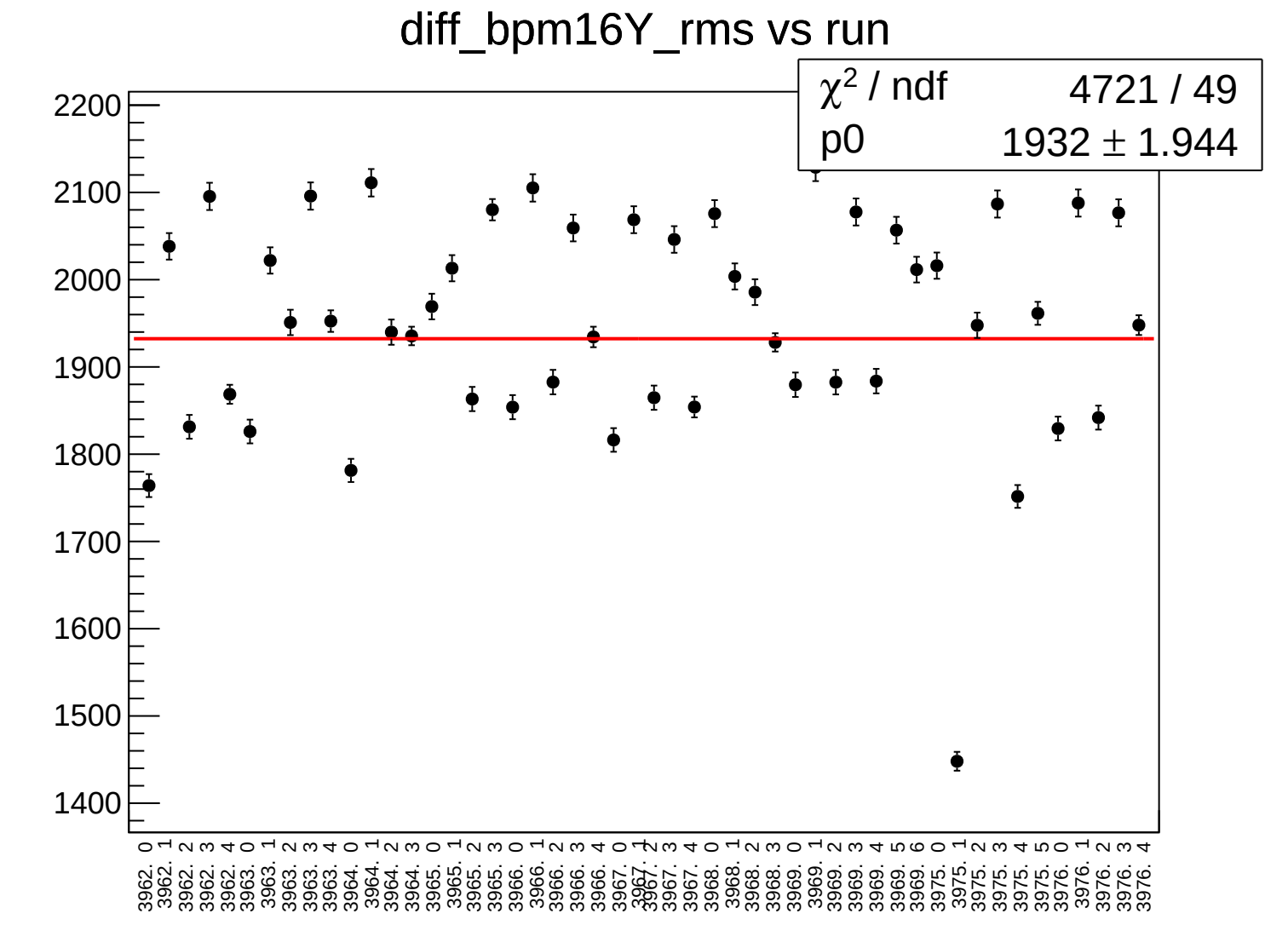

diff_bpm16X_mean vs run
χ² / ndf 39.1 / 49
p0 16.82 ± 6.288
pull
Entries 50
Mean 107.4
Std Dev 86.6


pull1D
Entries 50
Mean 0.01382
Std Dev 0.8842


diff_bpm16X_rms vs run
χ² / ndf 1814 / 49
p0 4426 ± 4.447
4800
4600
4400
4200
4000
3800
3600
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


diff_bpm16Y_mean vs run
χ² / ndf 46.09 / 49
p0 −2.258 ± 2.75
pull
Entries 50
Mean 311.7
Std Dev 269.8


pull1D
Entries 50
Mean −0.006688
Std Dev 0.9601


diff_bpm16Y_rms vs run
χ² / ndf 4721 / 49
p0 1932 ± 1.944
2200
2100
2000
1900
1800
1700
1600
1500
1400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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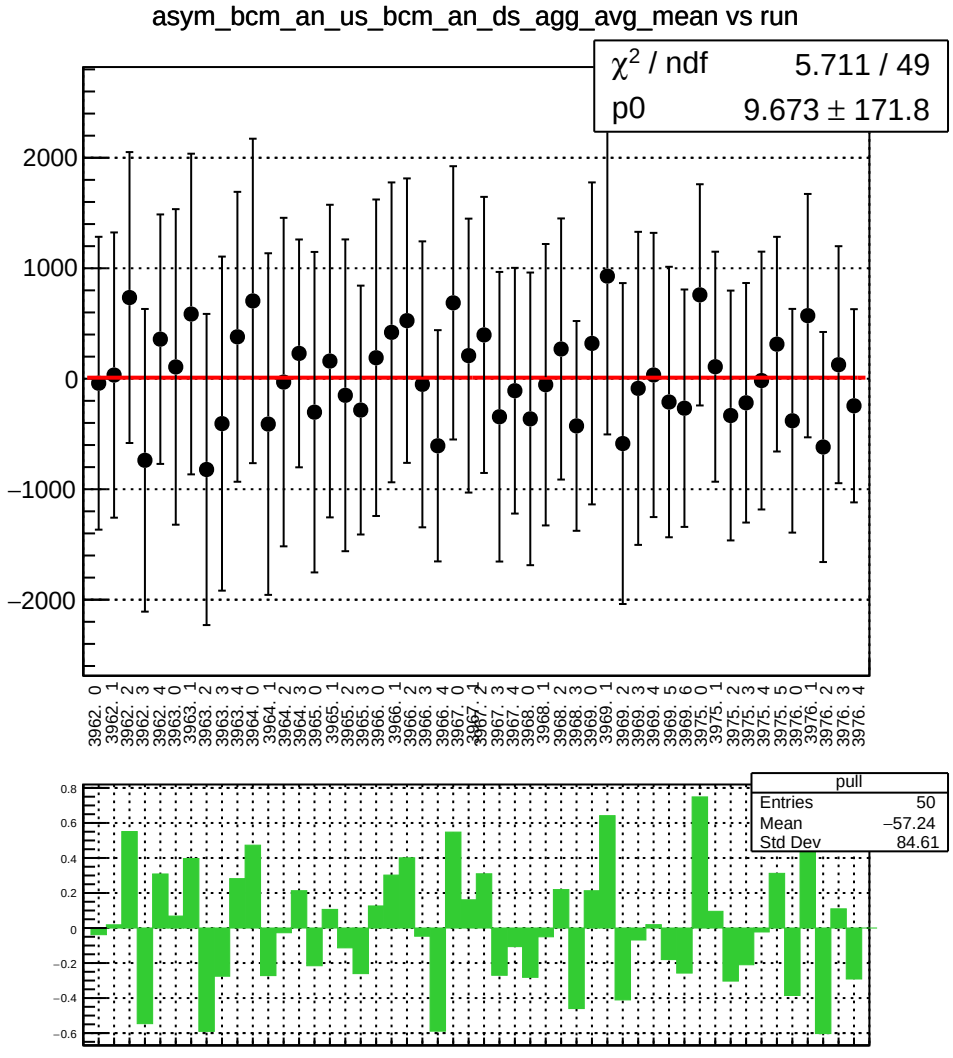
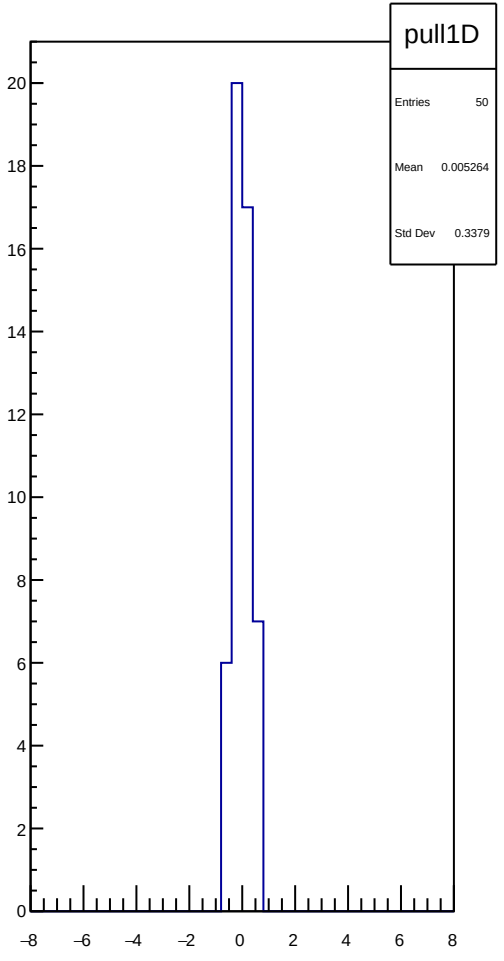
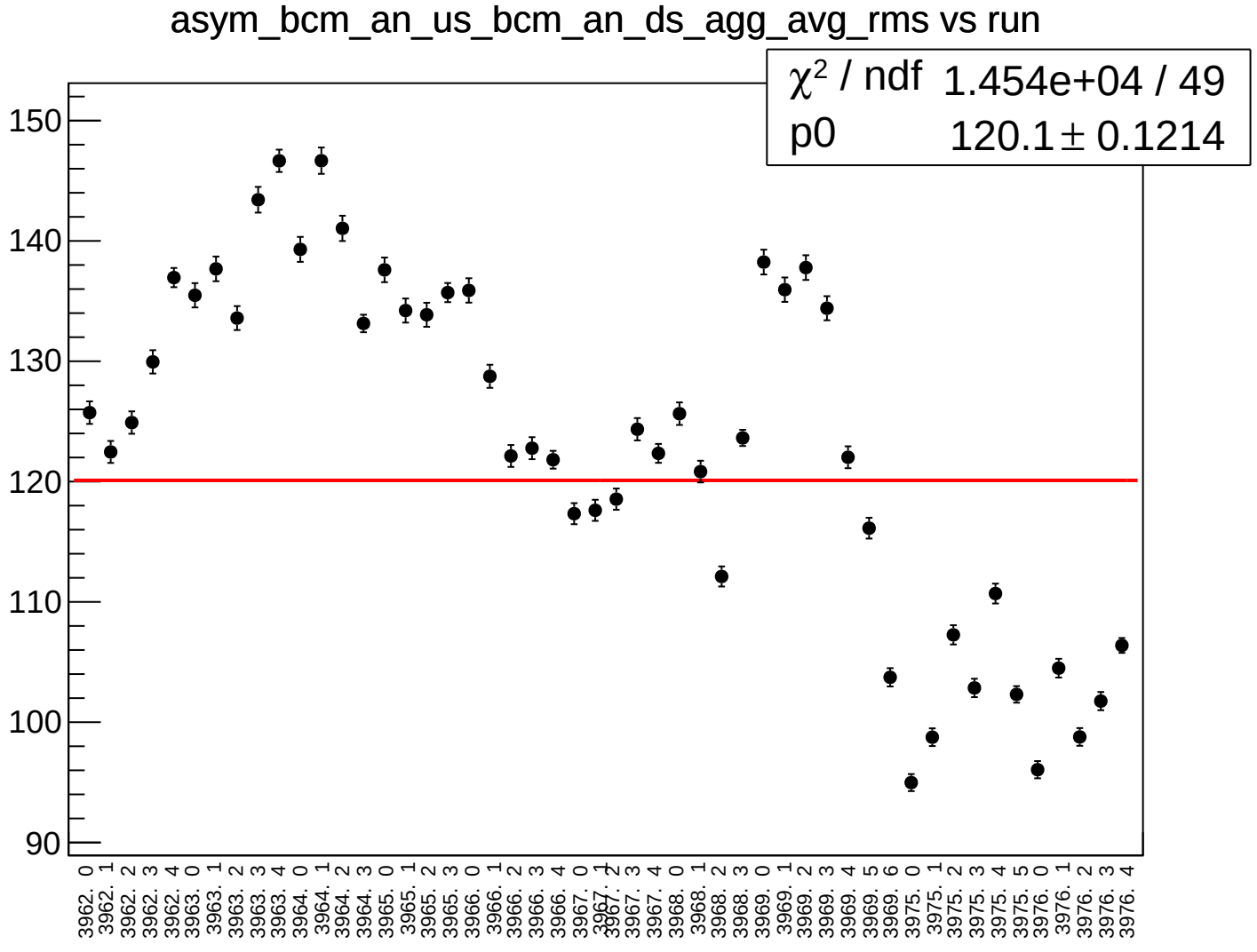
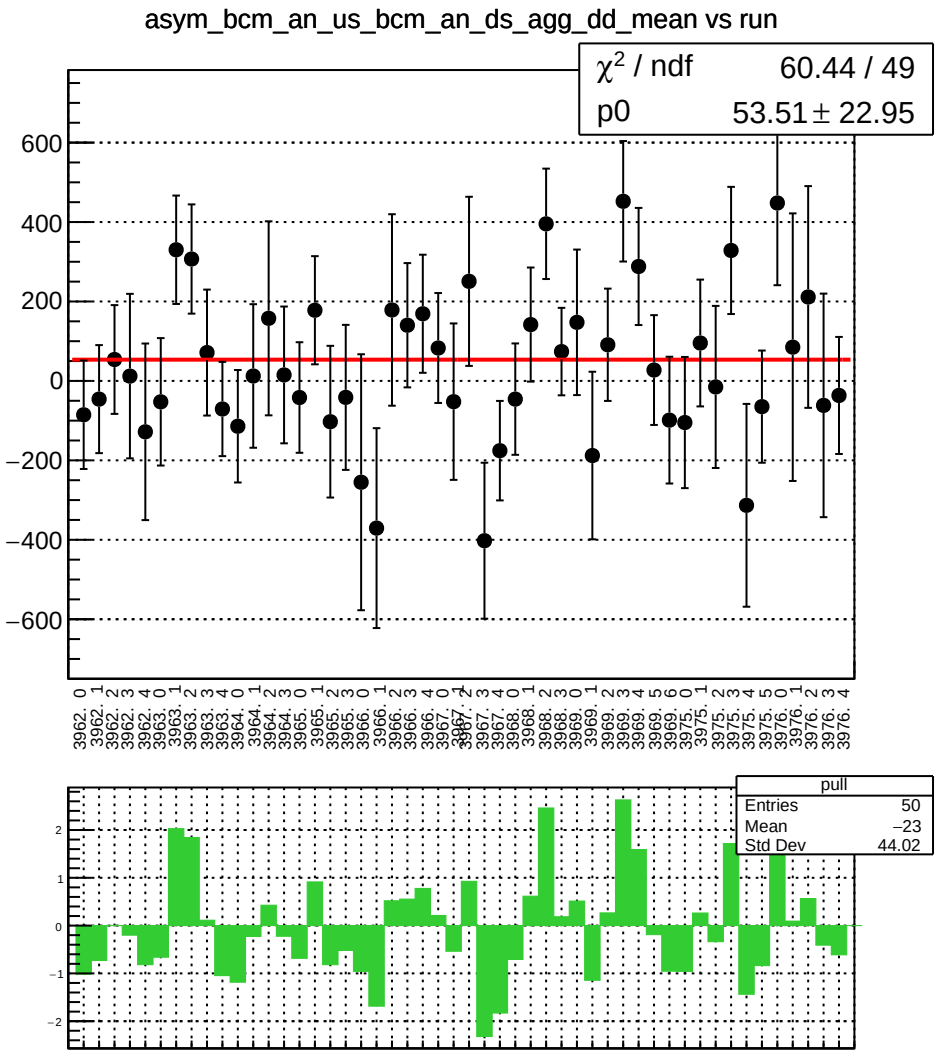
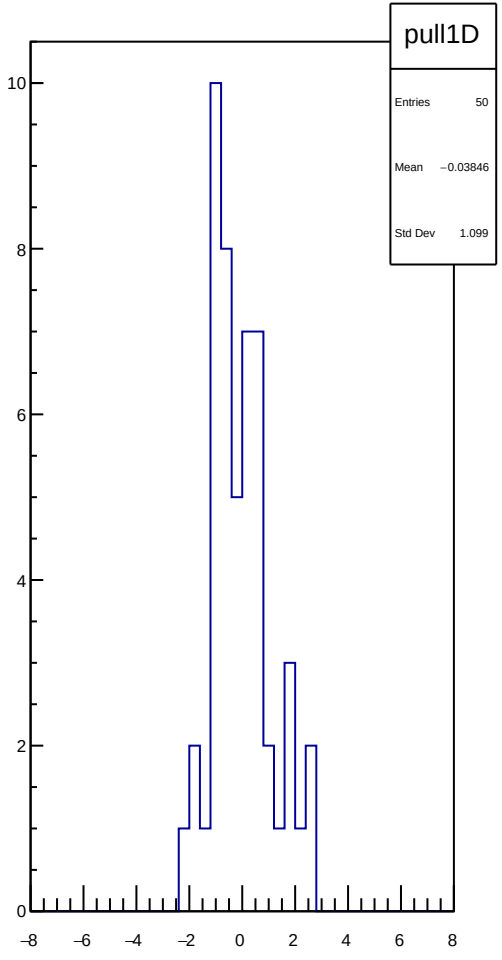
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

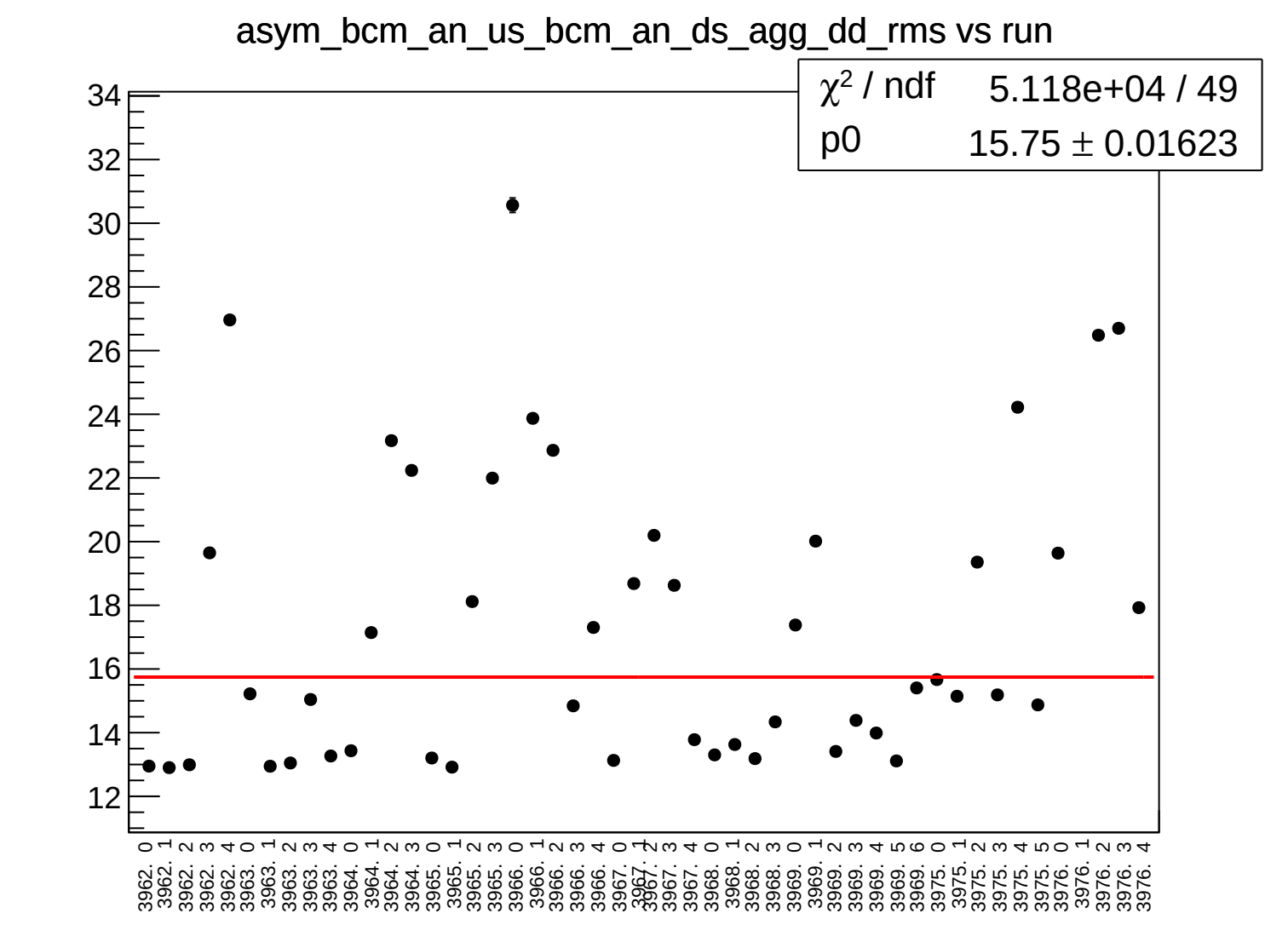

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.711 / 49
p0 9.673 ± 171.8
2000
1000
0
−1000
−2000
pull
Entries 50
Mean −57.24
Std Dev 84.61
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 50
Mean 0.005264
Std Dev 0.3379
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.454e+04 / 49
p0 120.1 ± 0.1214
150
140
130
120
110
100
90
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 60.44 / 49
p0 53.51 ± 22.95
pull
Entries 50
Mean −23
Std Dev 44.02


pull1D
Entries 50
Mean −0.03846
Std Dev 1.099


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5.118e+04 / 49
p0 15.75 ± 0.01623
34
32
30
28
26
24
22
20
18
16
14
12
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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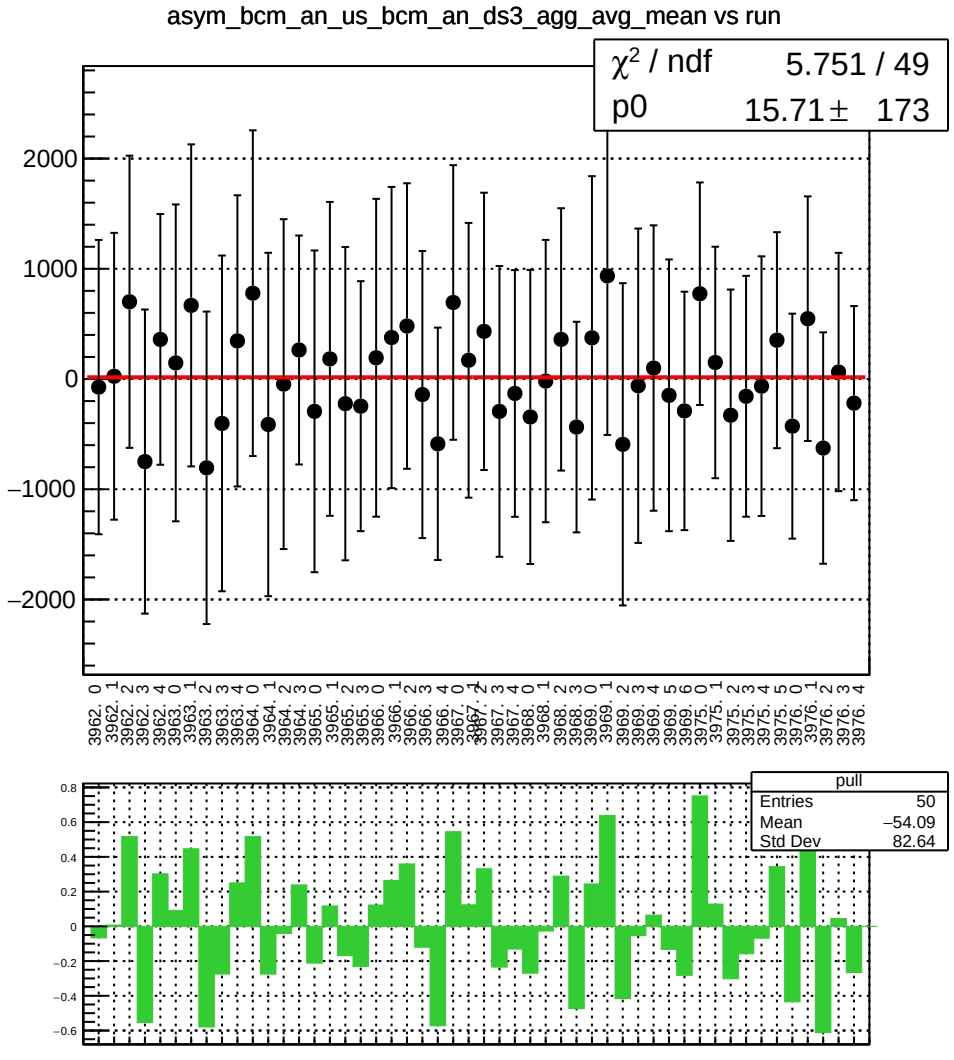
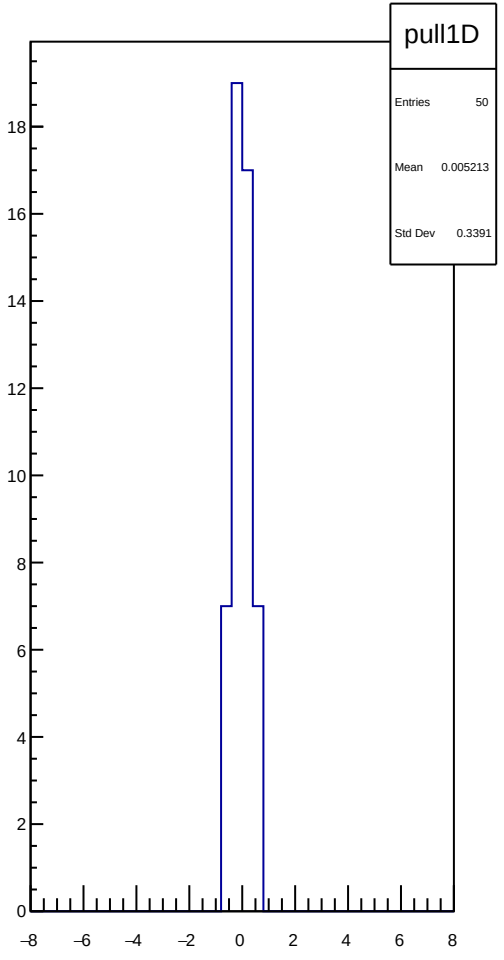
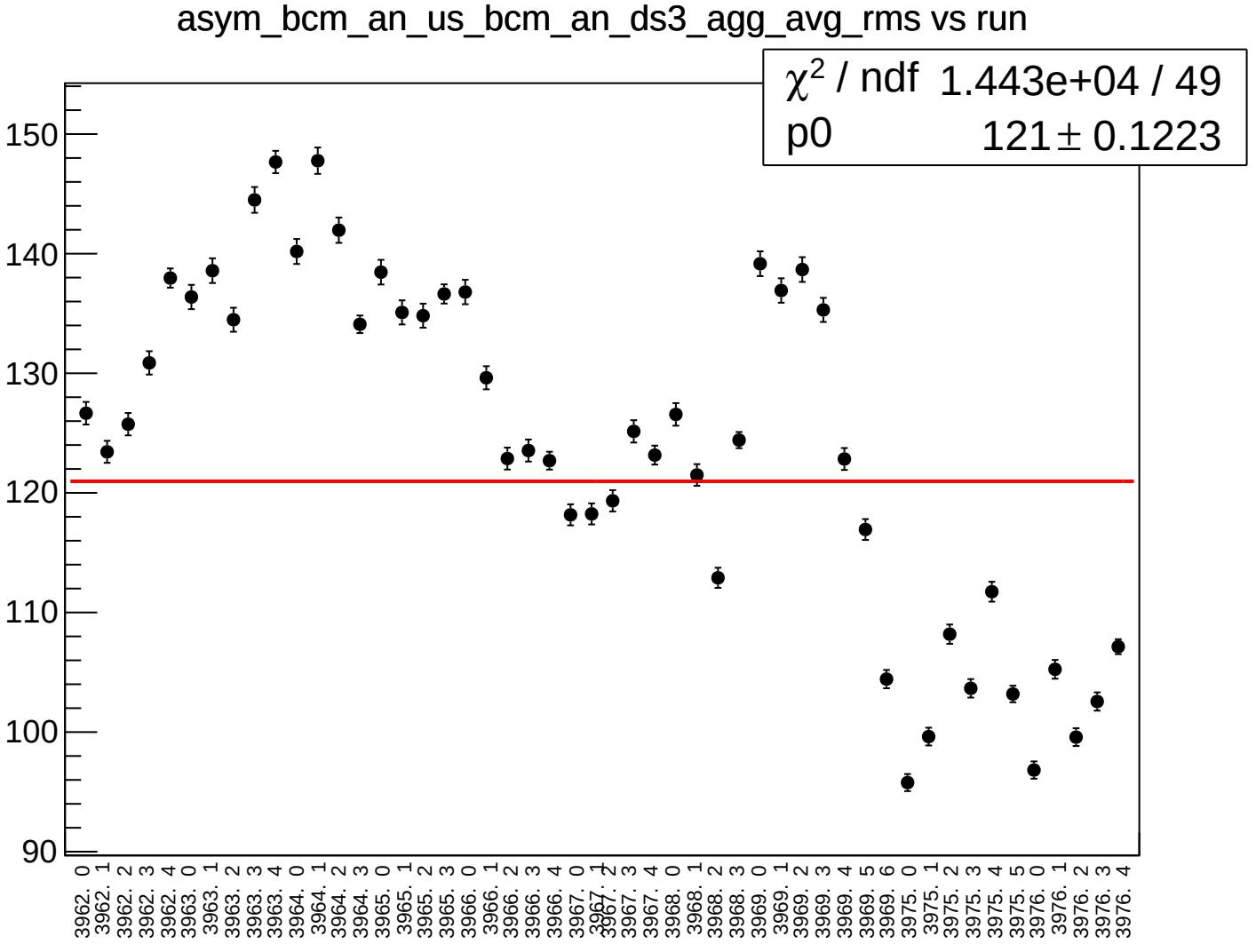
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 5.751 / 49
p0 15.71 ± 173
2000
1000
0
−1000
−2000
pull
Entries 50
Mean −54.09
Std Dev 82.64
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 50
Mean 0.005213
Std Dev 0.3391
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.443e+04 / 49
p0 121 ± 0.1223
150
140
130
120
110
100
90
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
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3964. 2
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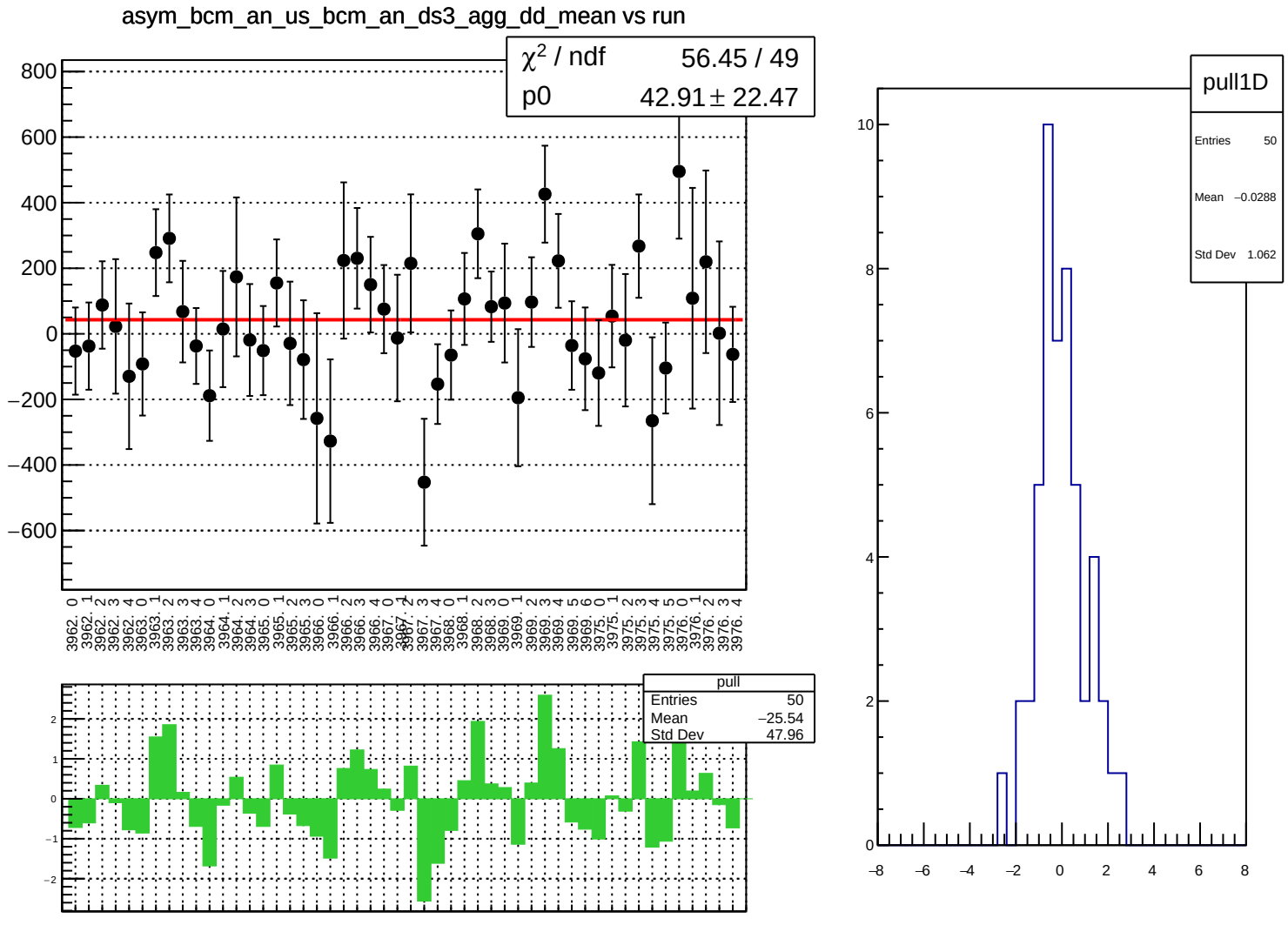
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 56.45 / 49
p0 42.91 ± 22.47
800
600
400
200
0
−200
−400
−600
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
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3963. 1
3963. 2
3963. 3
3963. 4
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3964. 4
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3965. 2
3965. 3
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3966. 2
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3966. 4
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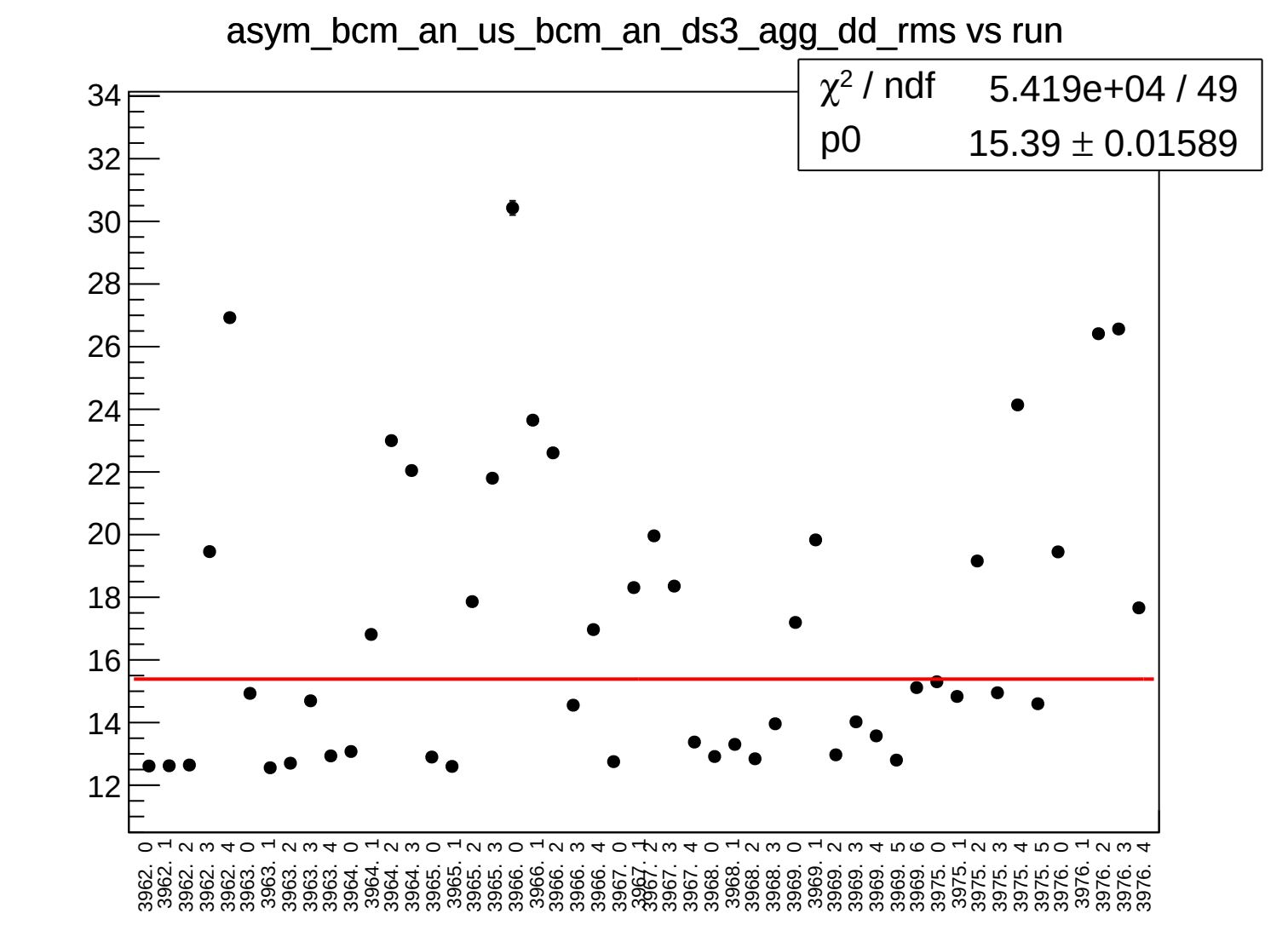
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −25.54
Std Dev 47.96
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.0288
Std Dev 1.062
10
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 5.419e+04 / 49
p0 15.39 ± 0.01589
34
32
30
28
26
24
22
20
18
16
14
12
3962. 0
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3967. 3
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3968. 2
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3969. 1
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3969. 4
3969. 5
3969. 6
3975. 0
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3975. 5
3976. 0
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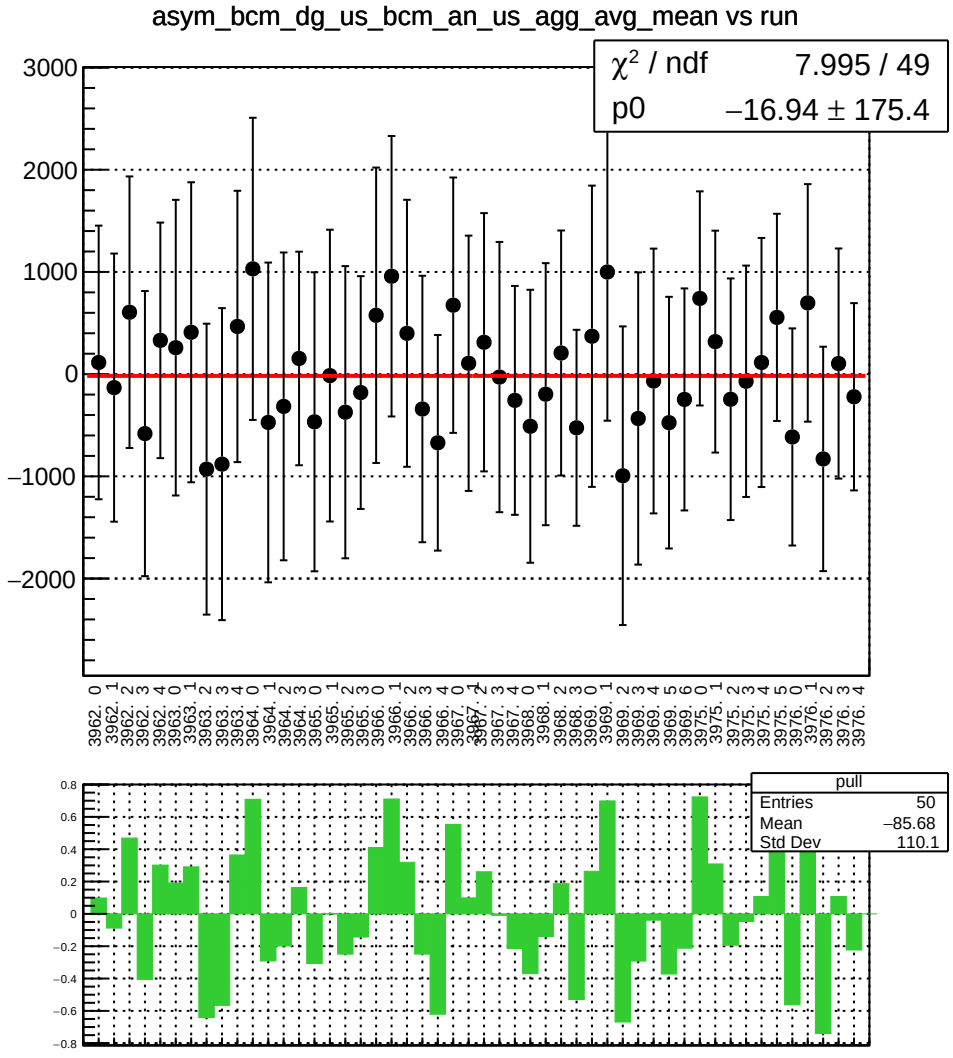
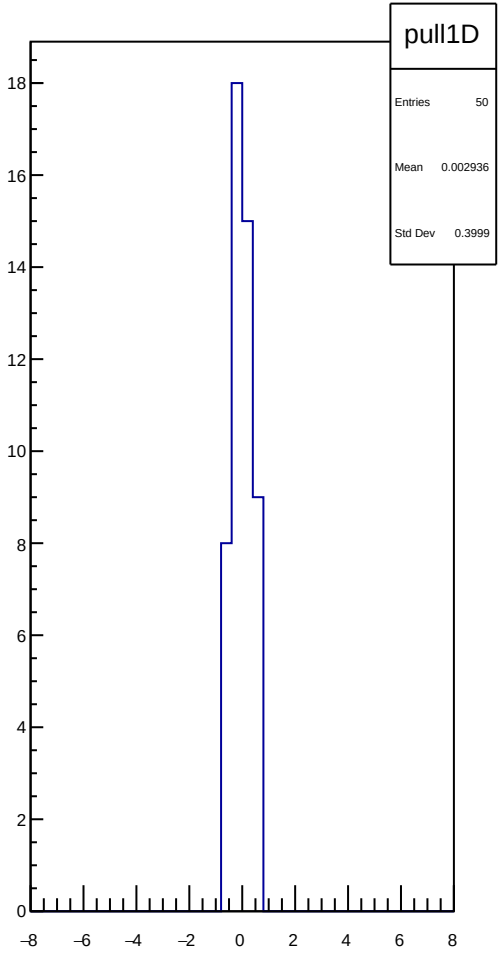
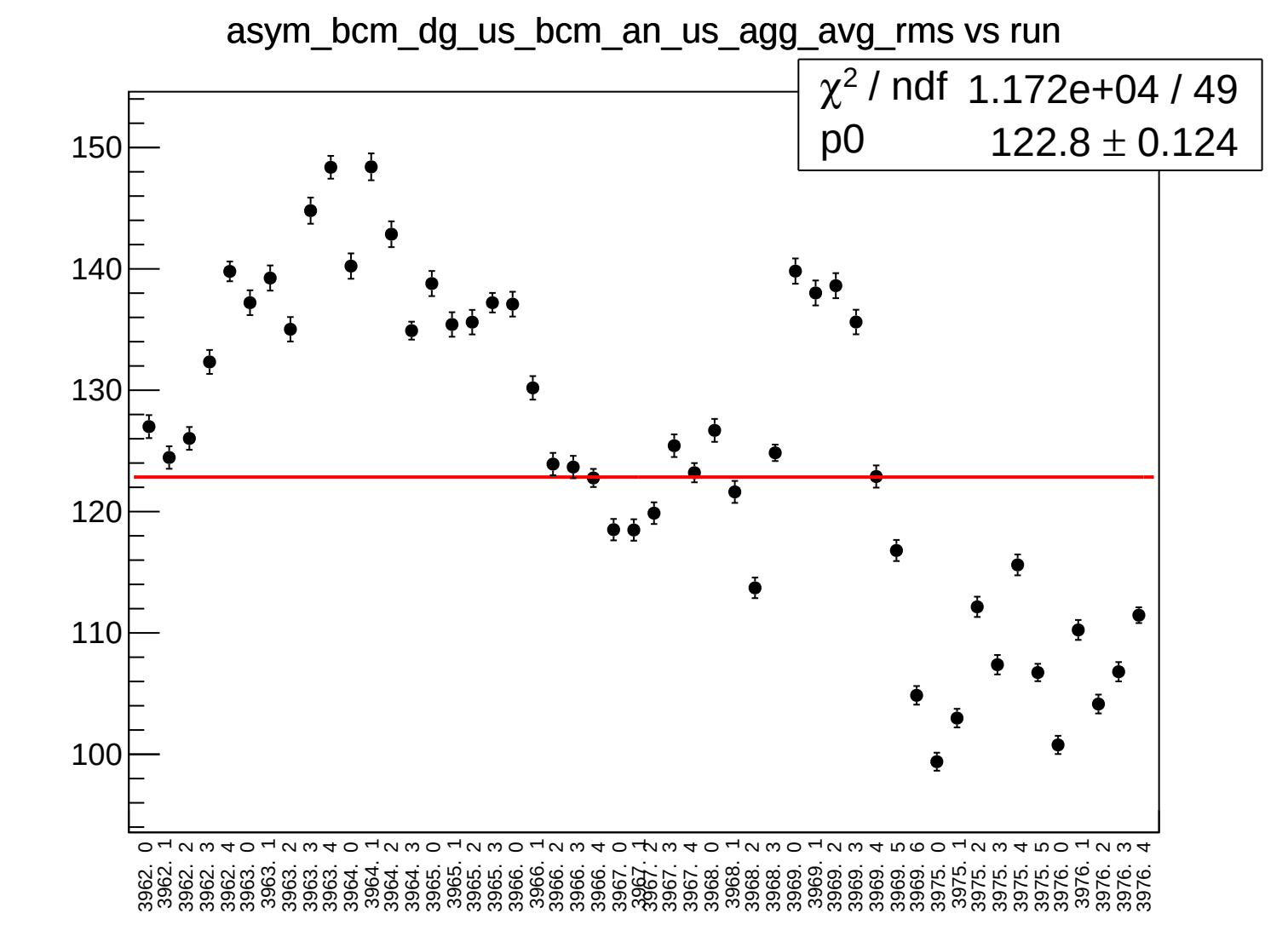
3976. 3
3976. 4


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.995 / 49
p0 −16.94 ± 175.4
pull
Entries 50
Mean −85.68
Std Dev 110.1


pull1D
Entries 50
Mean 0.002936
Std Dev 0.3999


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.172e+04 / 49
p0 122.8 ± 0.124
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
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3966. 4
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3968. 2
3968. 3
3969. 0
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3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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3975. 4
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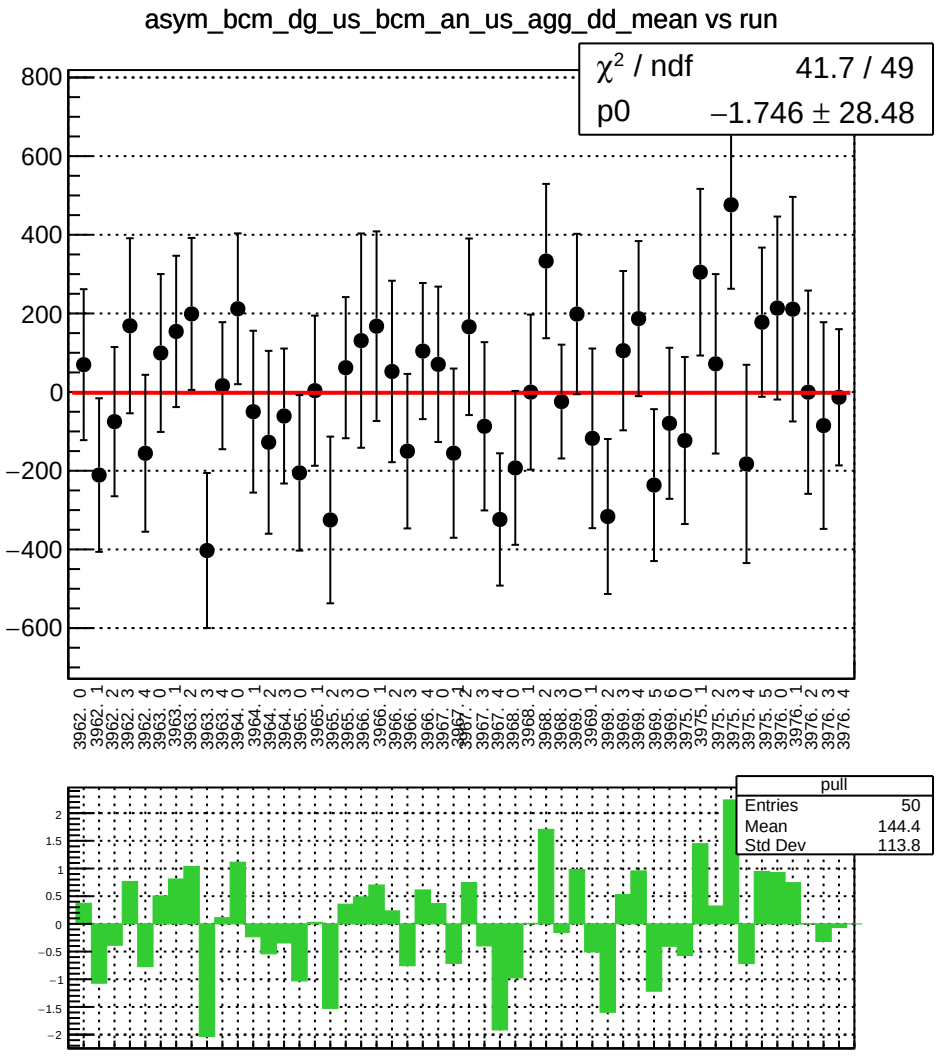
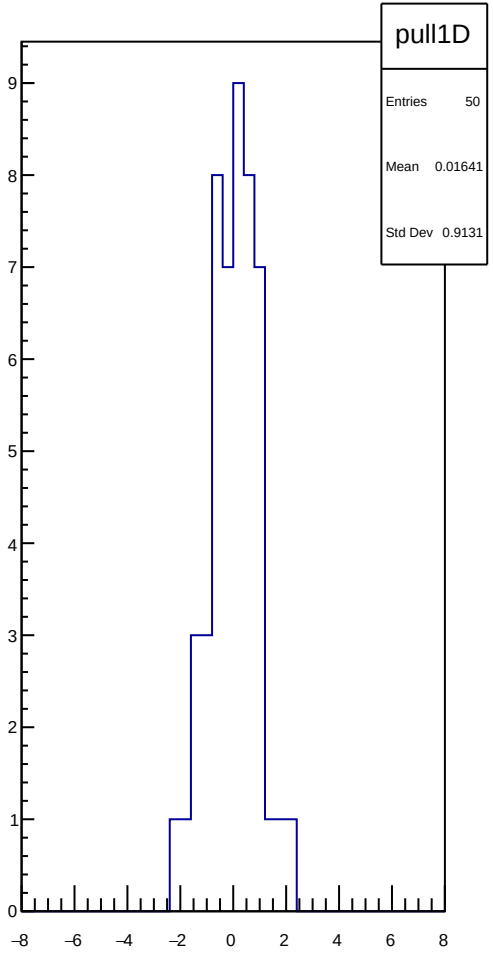
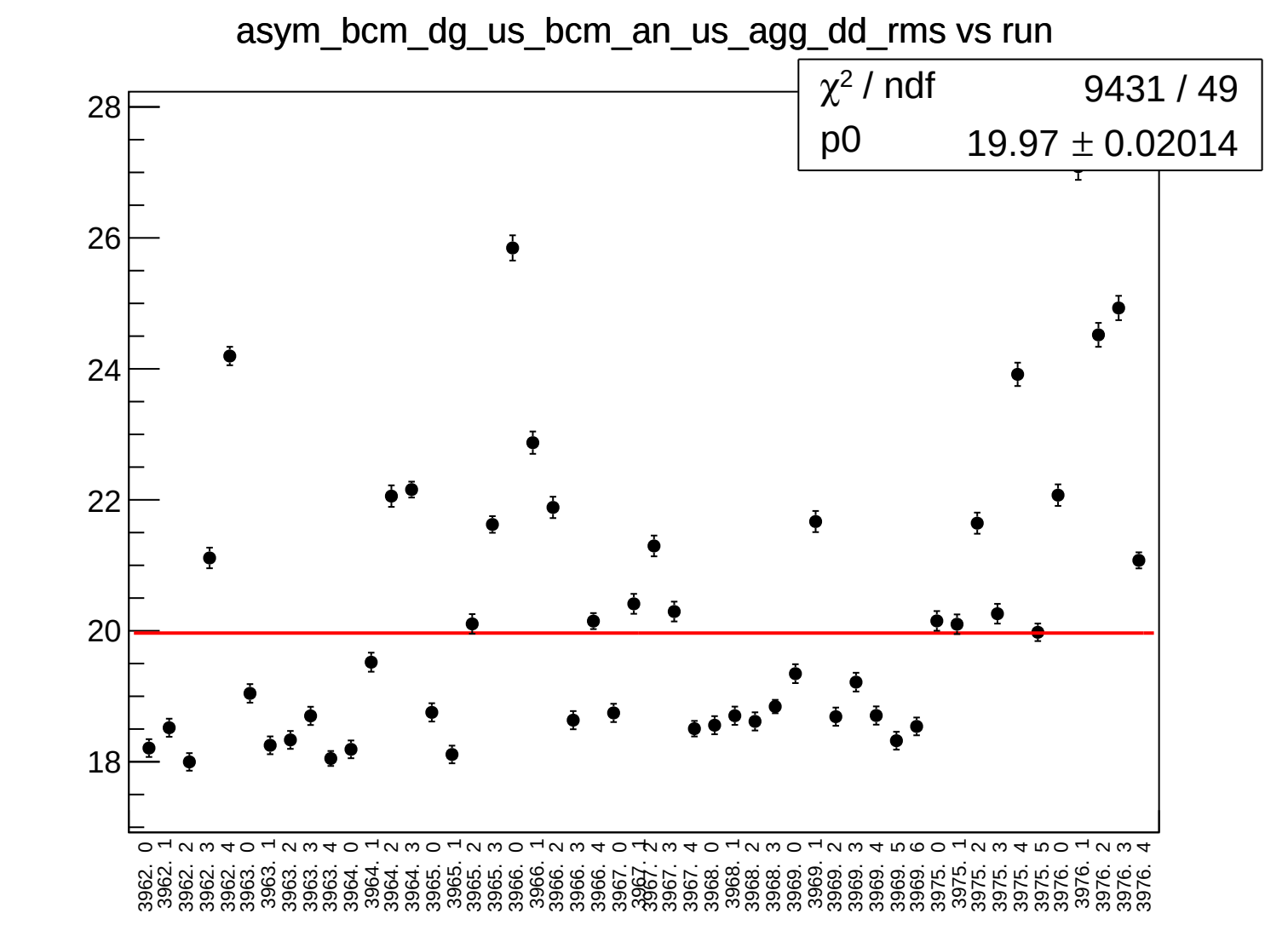
3976. 4


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 41.7 / 49
p0 −1.746 ± 28.48
pull
Entries 50
Mean 144.4
Std Dev 113.8


pull1D
Entries 50
Mean 0.01641
Std Dev 0.9131


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 9431 / 49
p0 19.97 ± 0.02014
28
26
24
22
20
18
3962. 0
3962. 1
3962. 2
3962. 3
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3966. 4
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3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
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3969. 4
3969. 5
3969. 6
3975. 0
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3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
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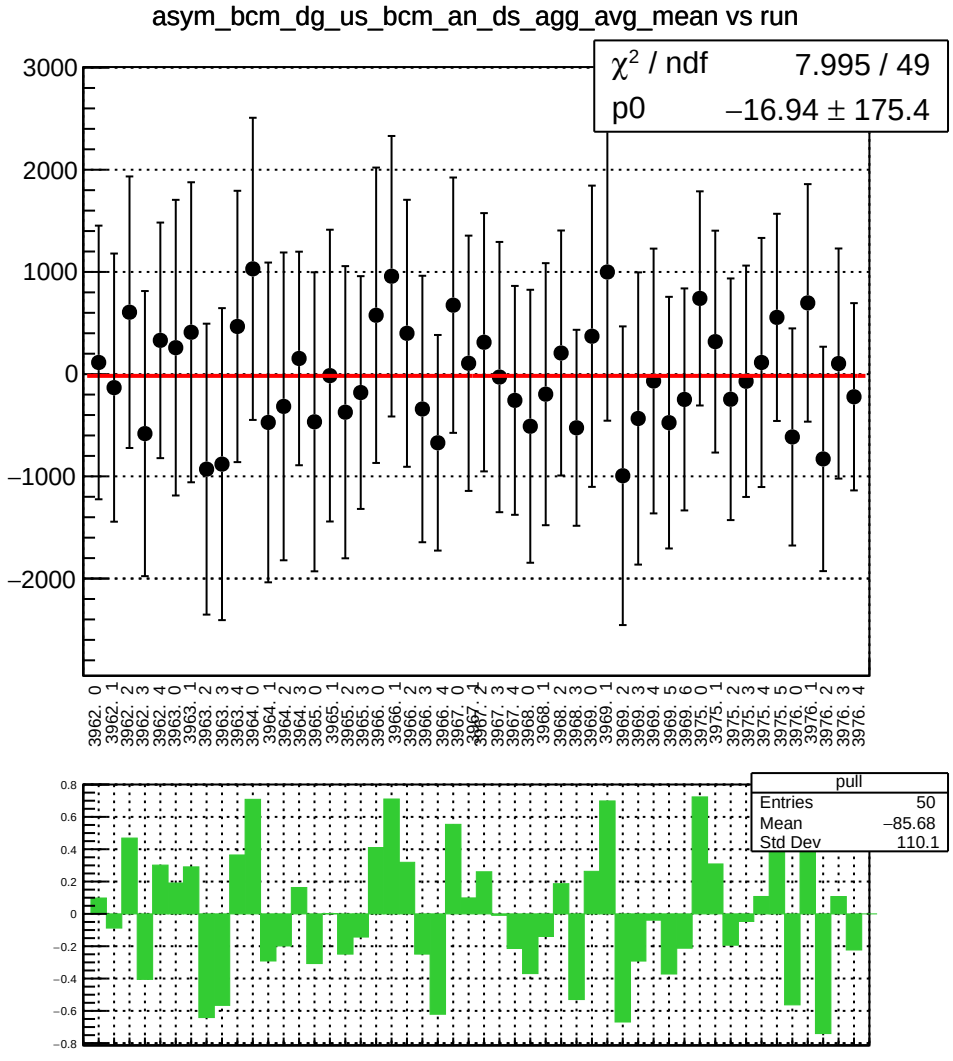
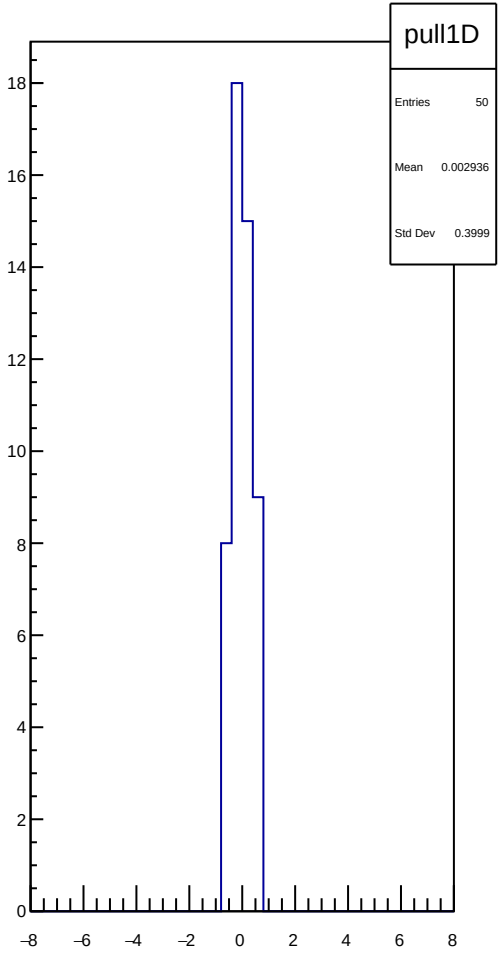
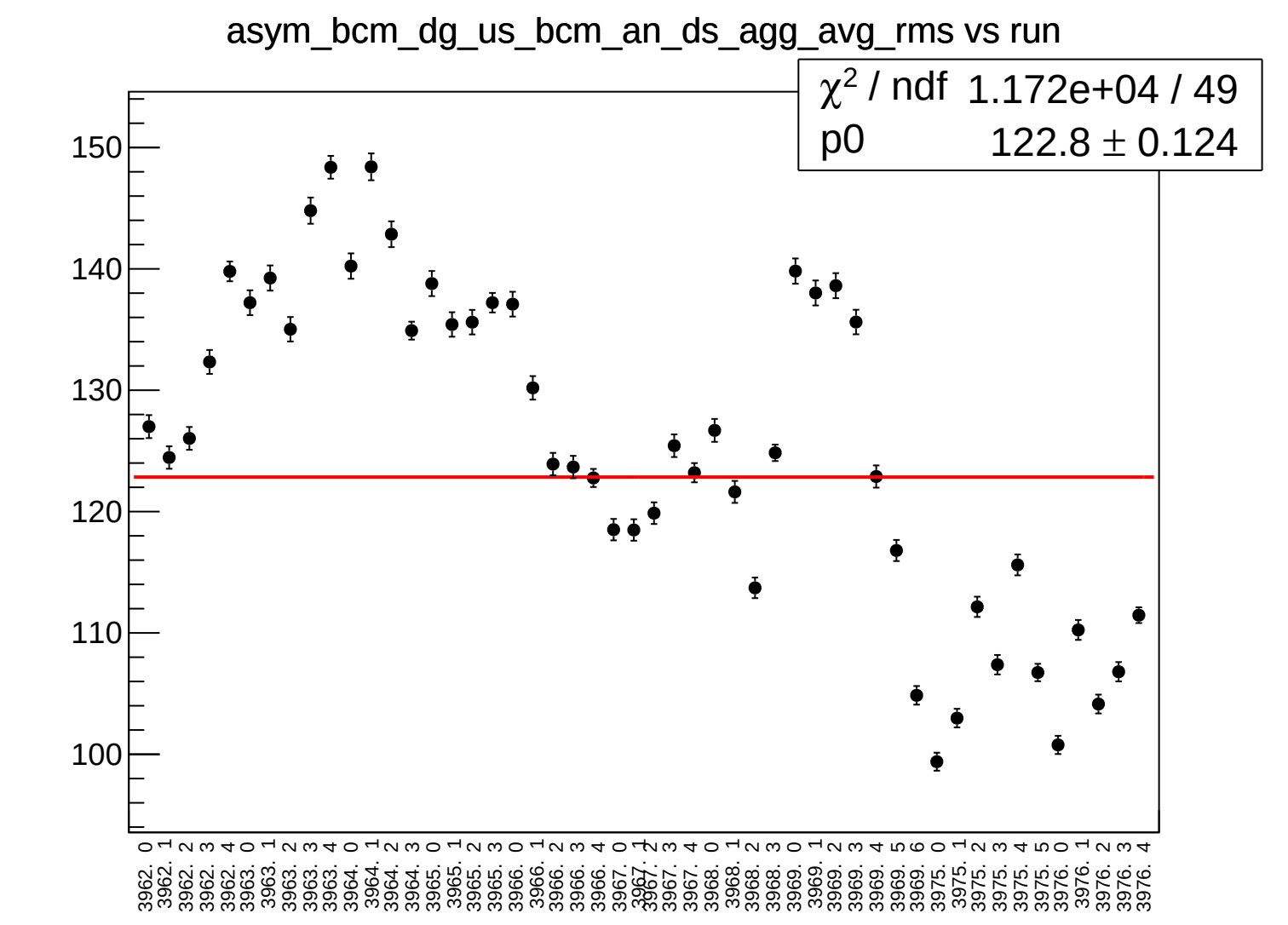
3976. 4


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.995 / 49
p0 −16.94 ± 175.4
pull
Entries 50
Mean −85.68
Std Dev 110.1


pull1D
Entries 50
Mean 0.002936
Std Dev 0.3999


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.172e+04 / 49
p0 122.8 ± 0.124
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
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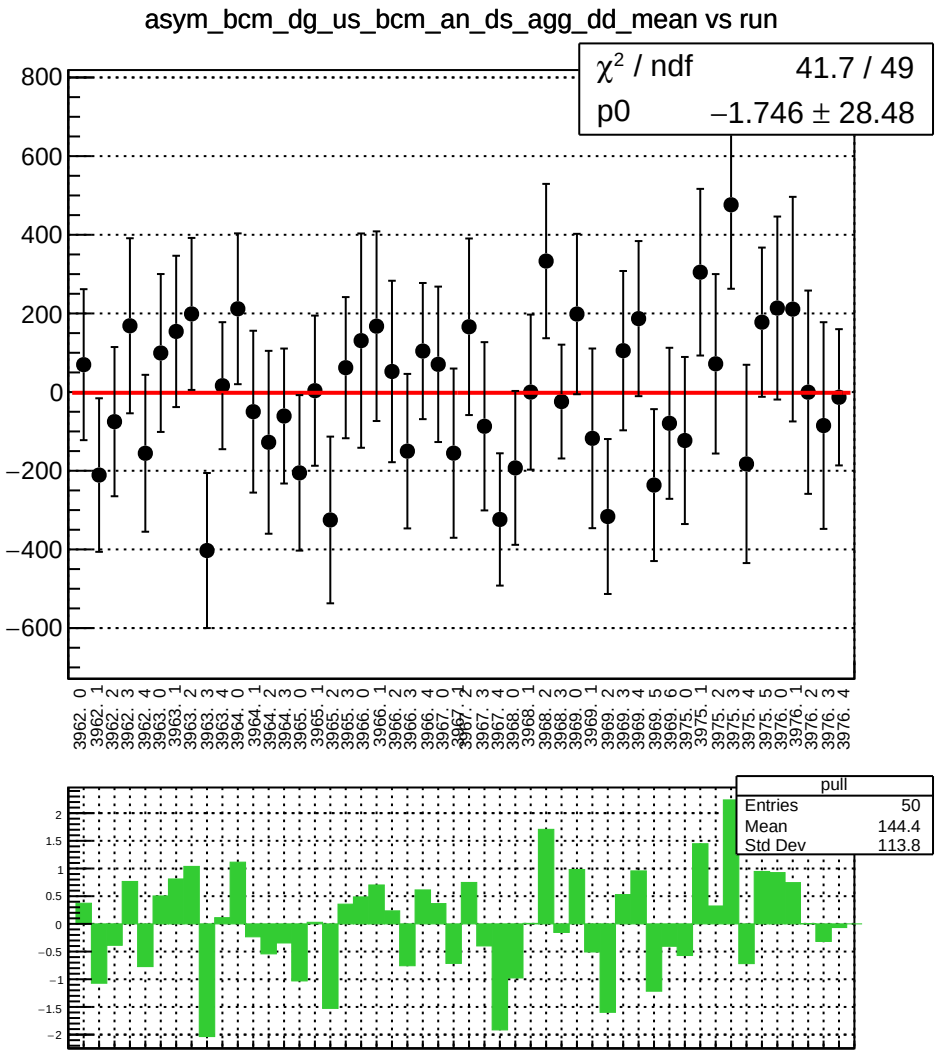
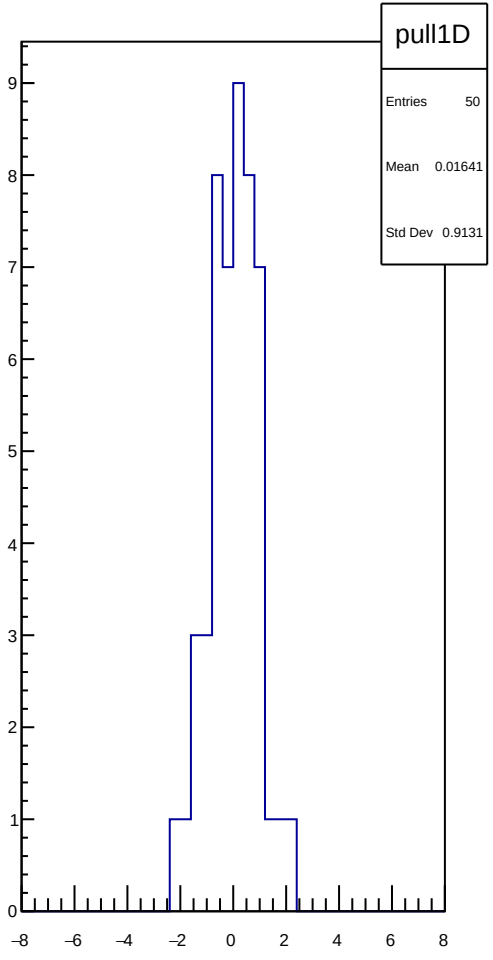
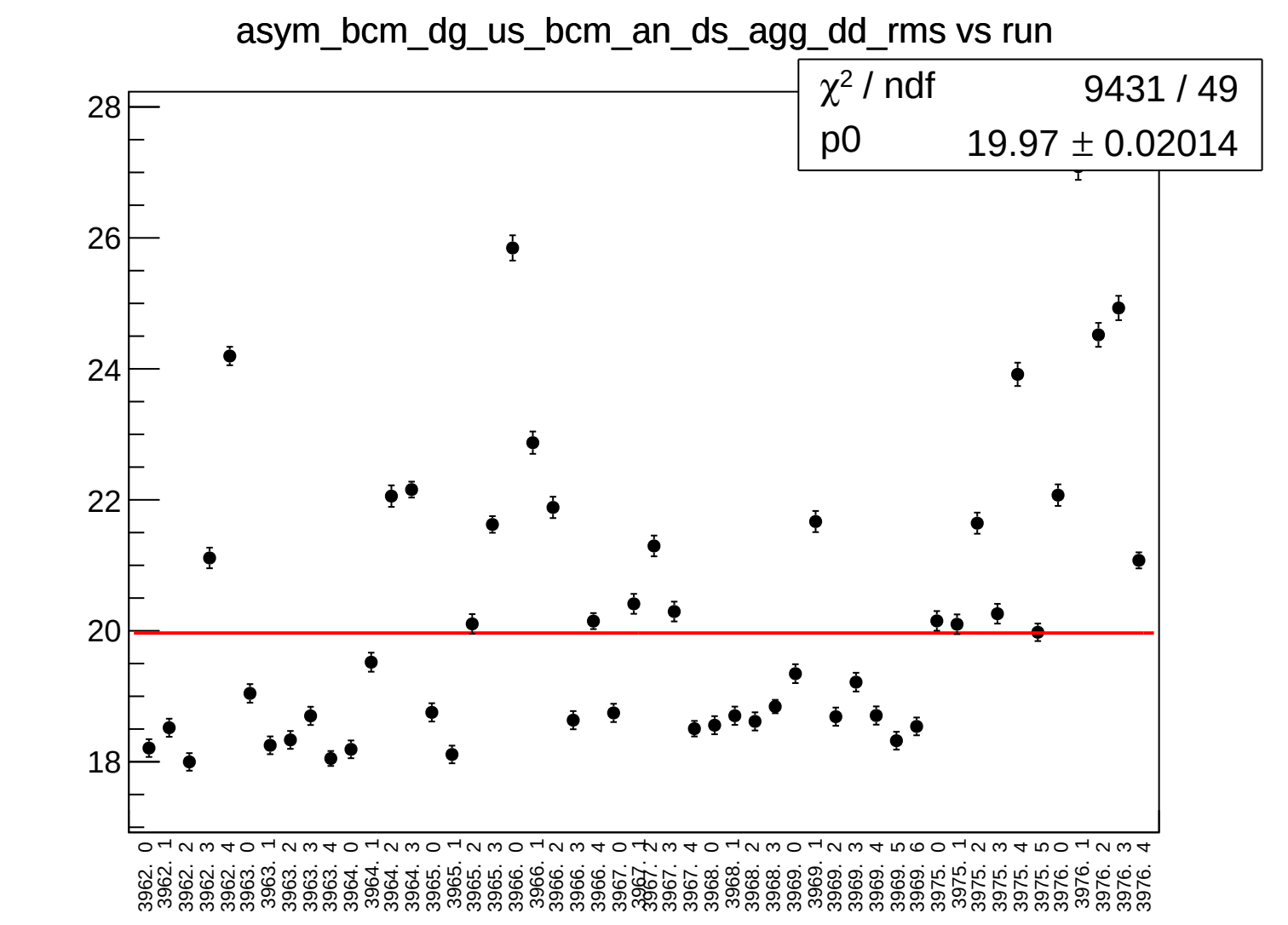
3976. 3
3976. 4


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 41.7 / 49
p0 −1.746 ± 28.48
pull
Entries 50
Mean 144.4
Std Dev 113.8


pull1D
Entries 50
Mean 0.01641
Std Dev 0.9131


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9431 / 49
p0 19.97 ± 0.02014
28
26
24
22
20
18
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
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3965. 2
3965. 3
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3966. 1
3966. 2
3966. 3
3966. 4
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3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
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3975. 3
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3975. 5
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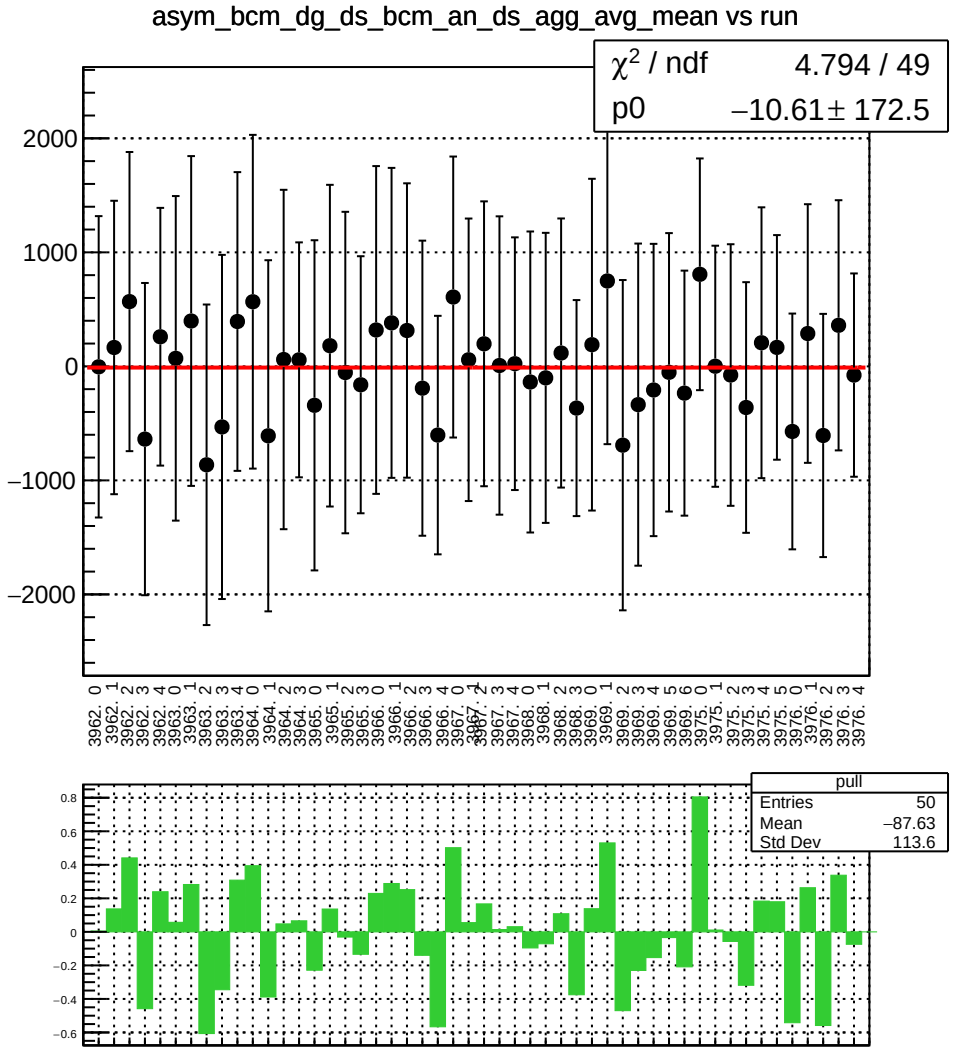
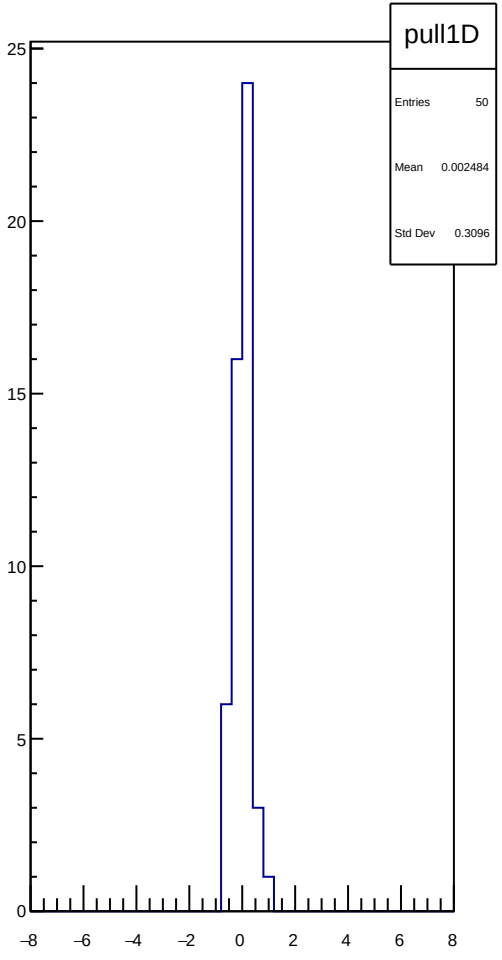
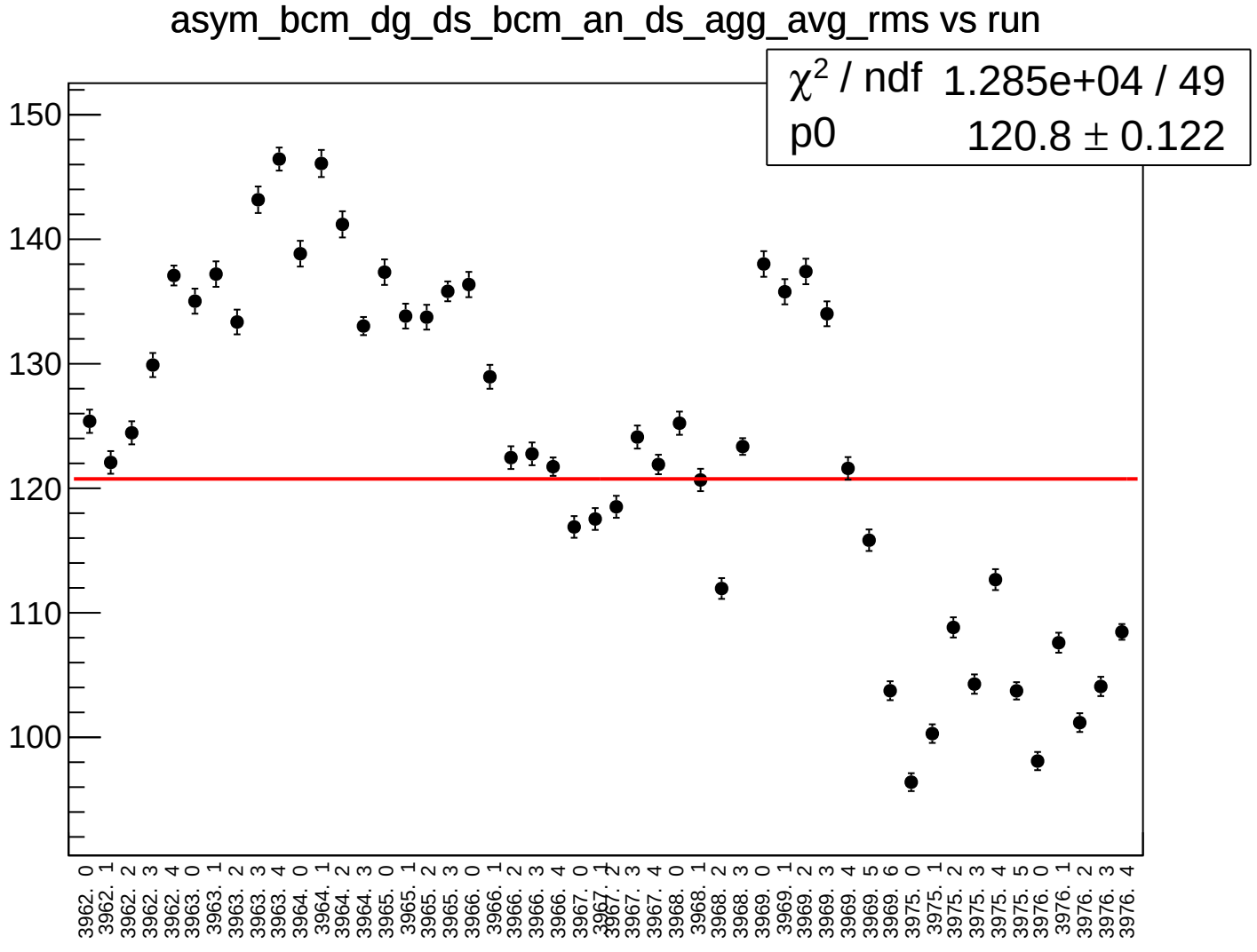
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.794 / 49
p0 −10.61 ± 172.5
2000
1000
0
−1000
−2000
pull
Entries 50
Mean −87.63
Std Dev 113.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 50
Mean 0.002484
Std Dev 0.3096
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.285e+04 / 49
p0 120.8 ± 0.122
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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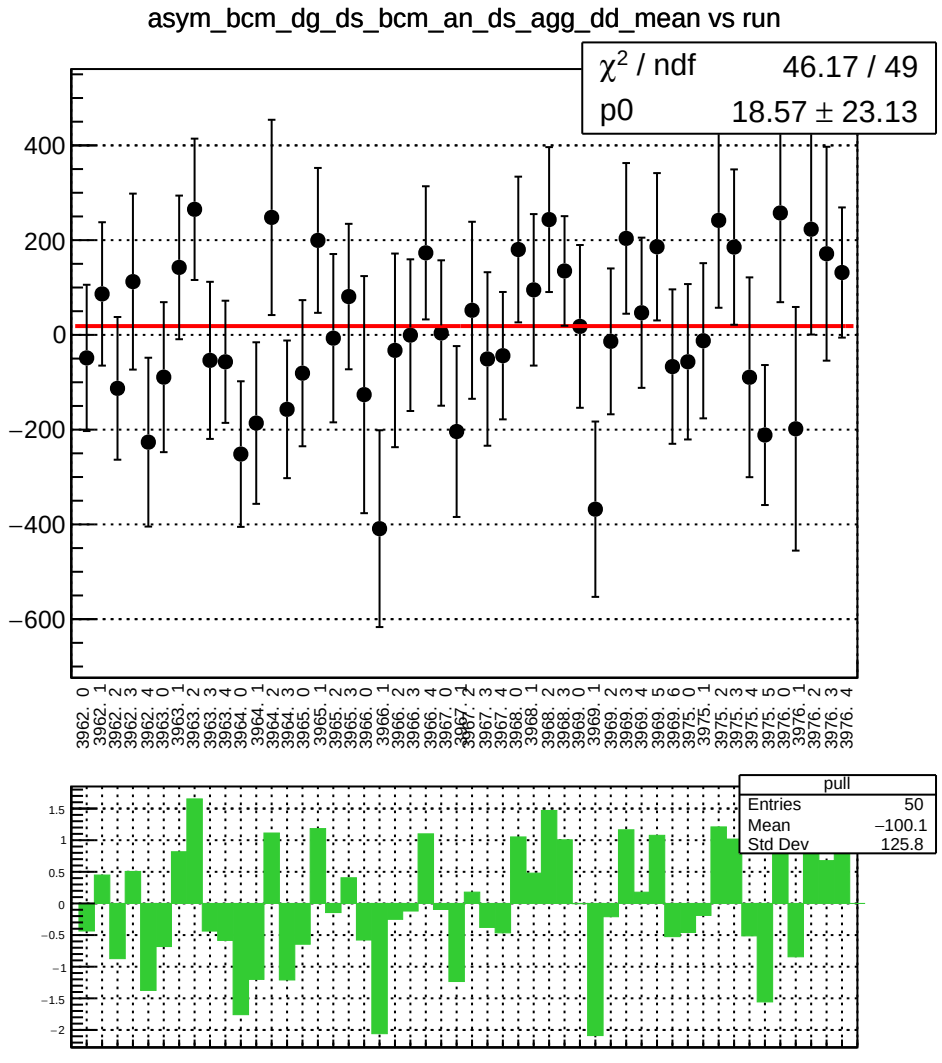
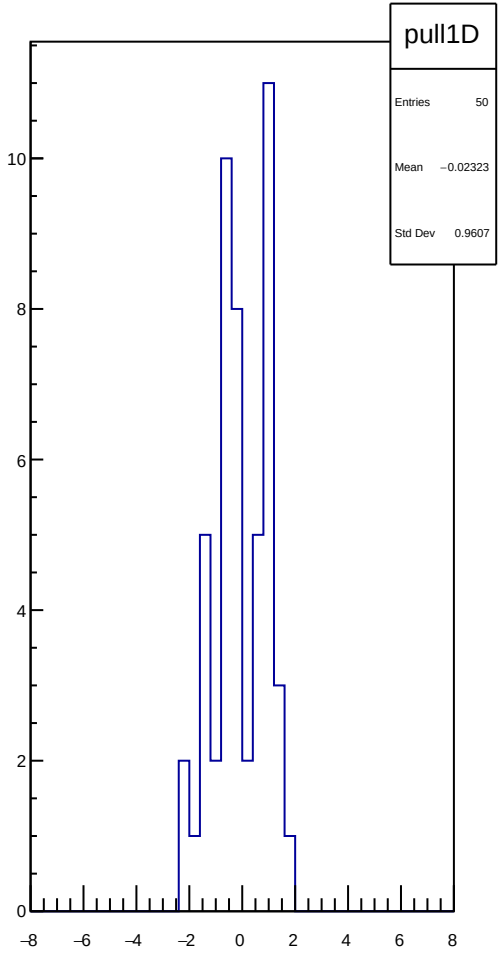
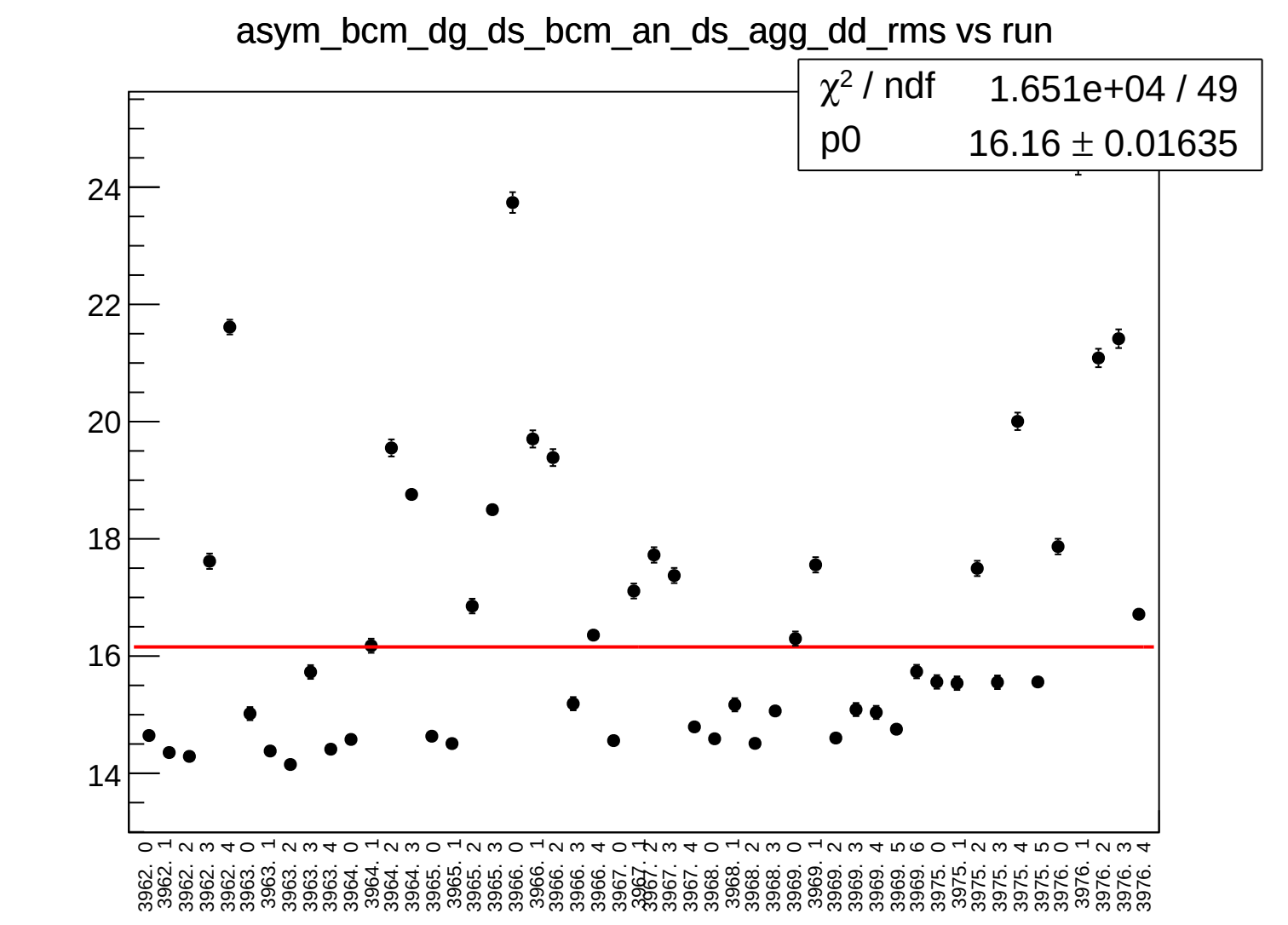
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 46.17 / 49
p0 18.57 ± 23.13
pull
Entries 50
Mean −100.1
Std Dev 125.8


pull1D
Entries 50
Mean −0.02323
Std Dev 0.9607


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.651e+04 / 49
p0 16.16 ± 0.01635
24
22
20
18
16
14
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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3964. 2
3964. 3
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3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
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3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
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3969. 1
3969. 2
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3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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3975. 3
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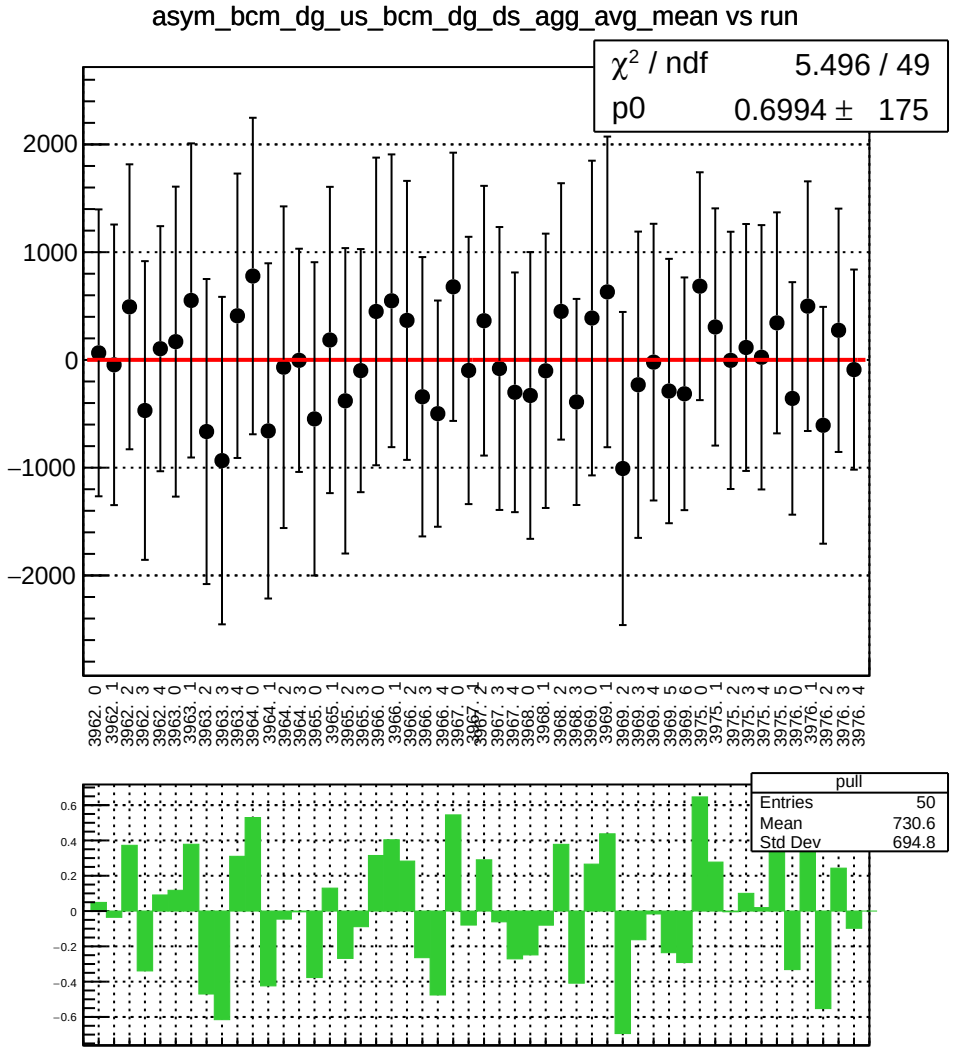
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 5.496 / 49
p0 0.6994 ± 175
2000
1000
0
−1000
−2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
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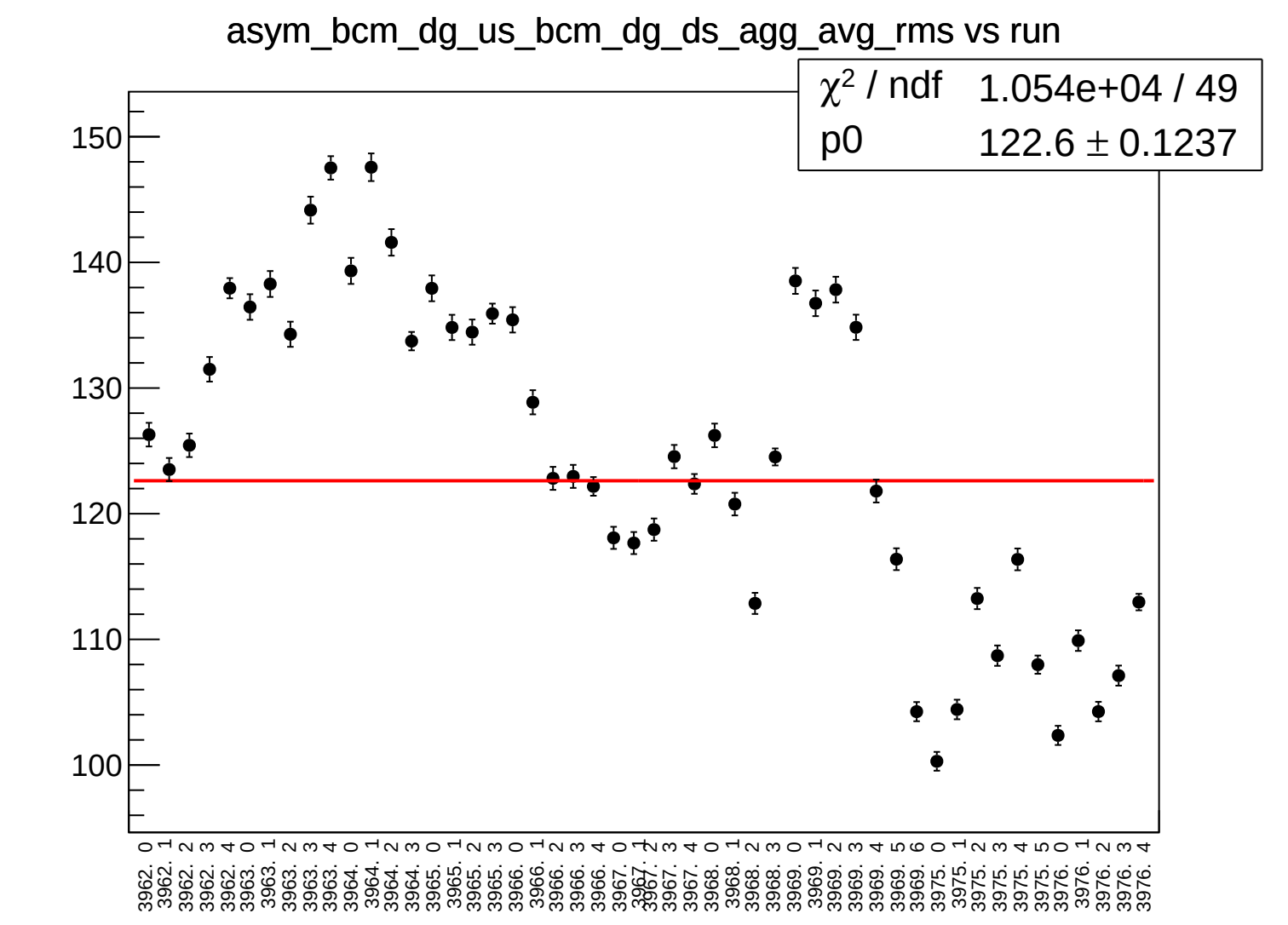
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 730.6
Std Dev 694.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 50
Mean 0.0001298
Std Dev 0.3315
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.054e+04 / 49
p0 122.6 ± 0.1237
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
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3963. 3
3963. 4
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3964. 2
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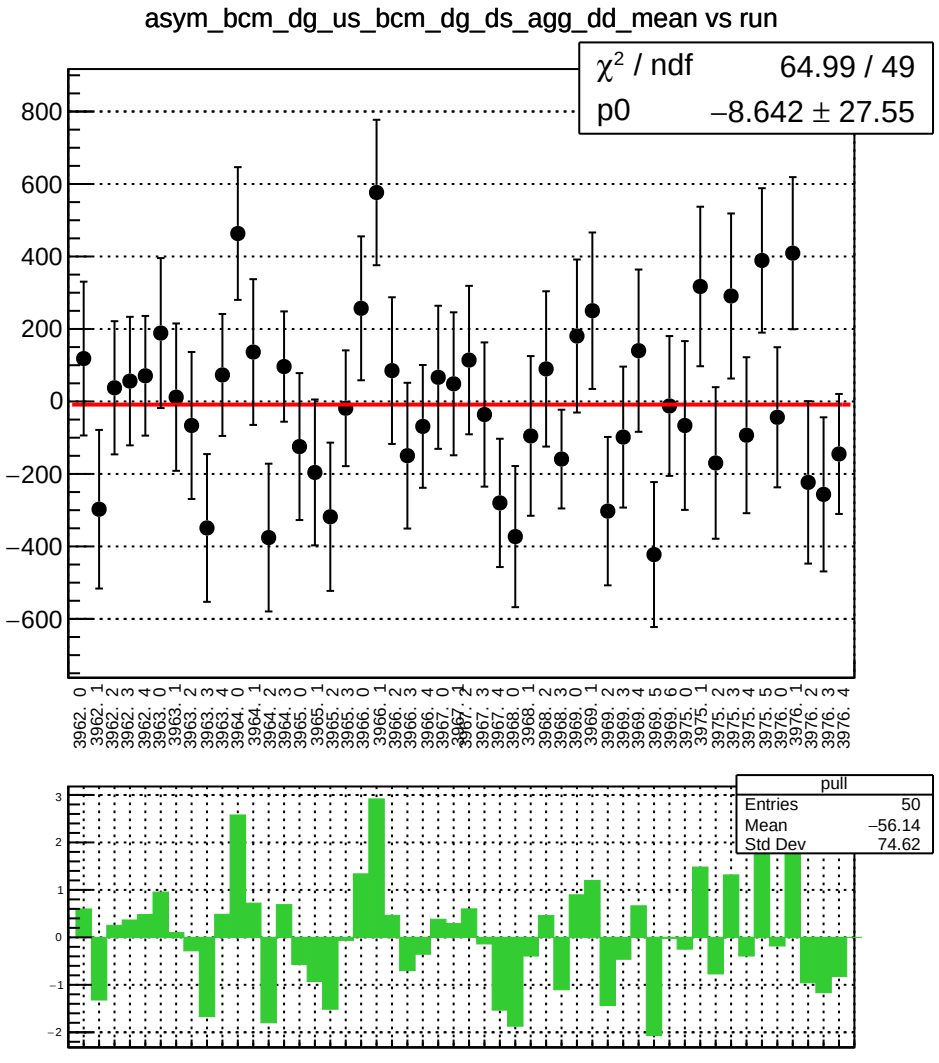
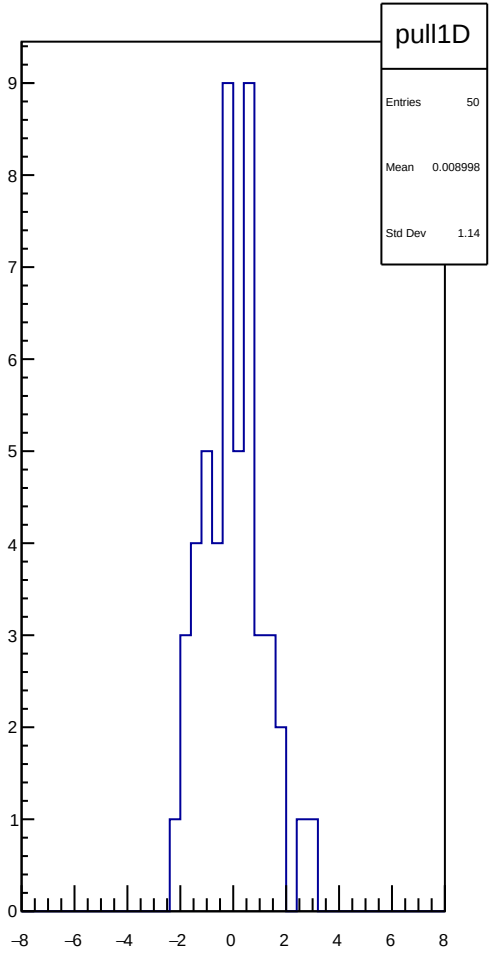
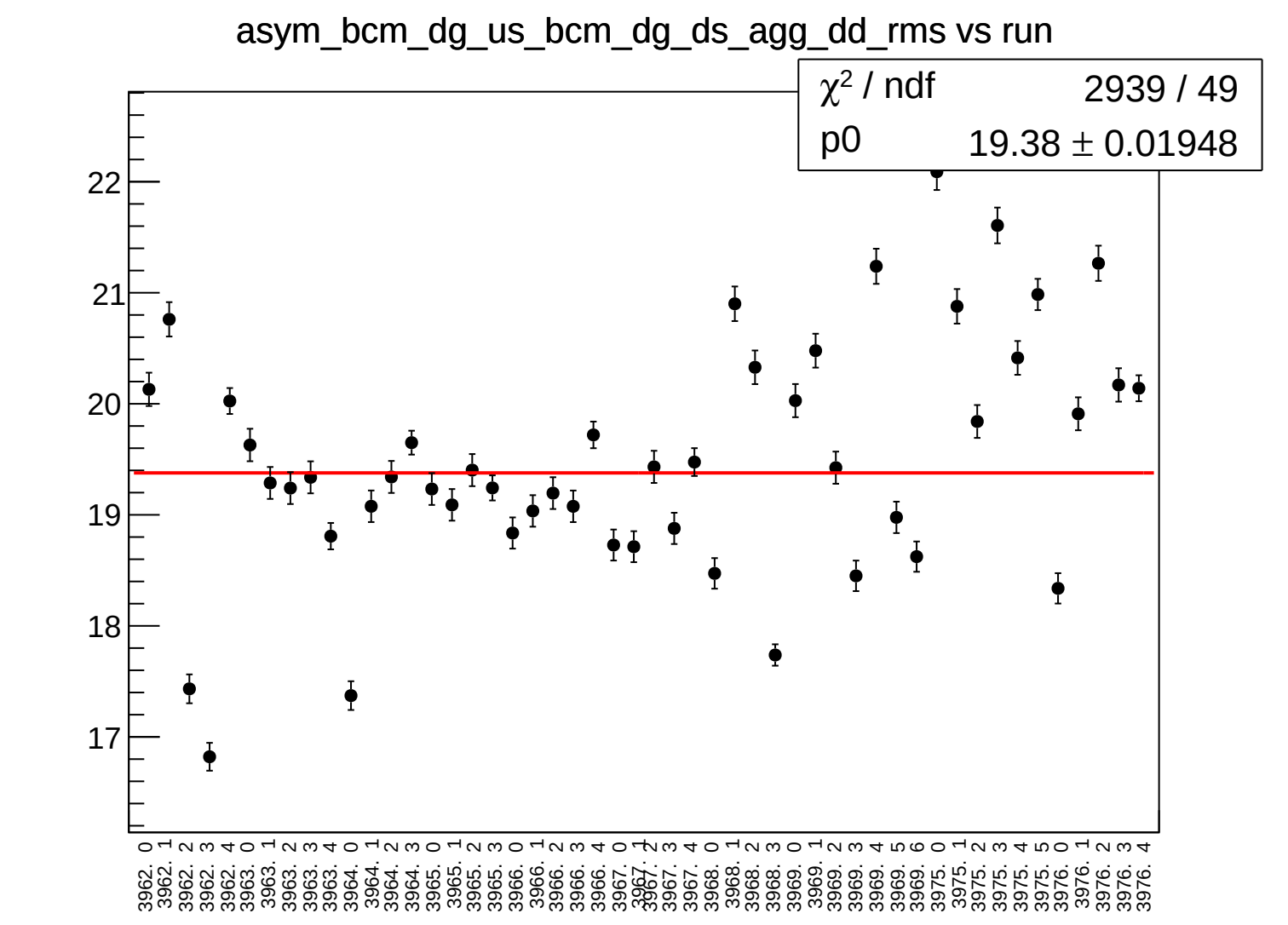
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 64.99 / 49
p0 −8.642 ± 27.55
pull
Entries 50
Mean −56.14
Std Dev 74.62


pull1D
Entries 50
Mean 0.008998
Std Dev 1.14


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2939 / 49
p0 19.38 ± 0.01948
22
21
20
19
18
17
3962. 0
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3962. 2
3962. 3
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3965. 3
3966. 0
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3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
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3968. 0
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3969. 5
3969. 6
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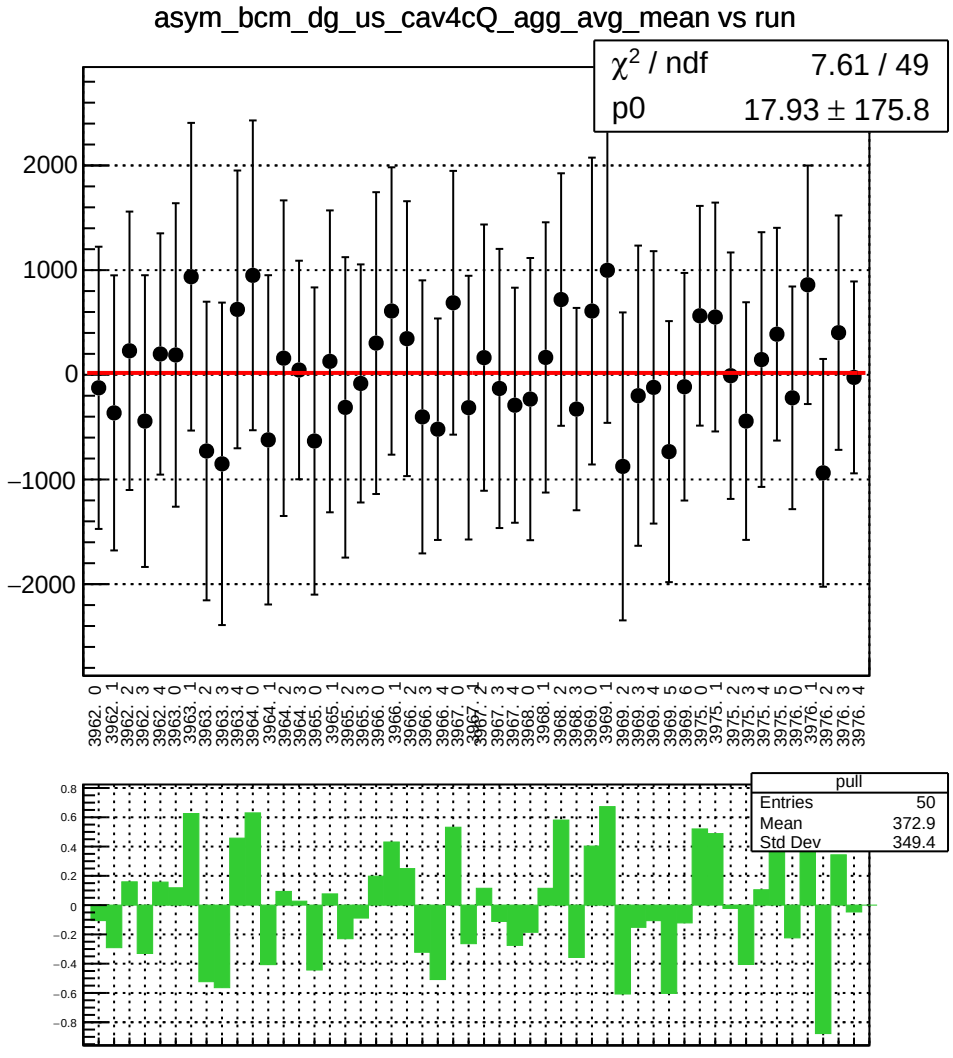
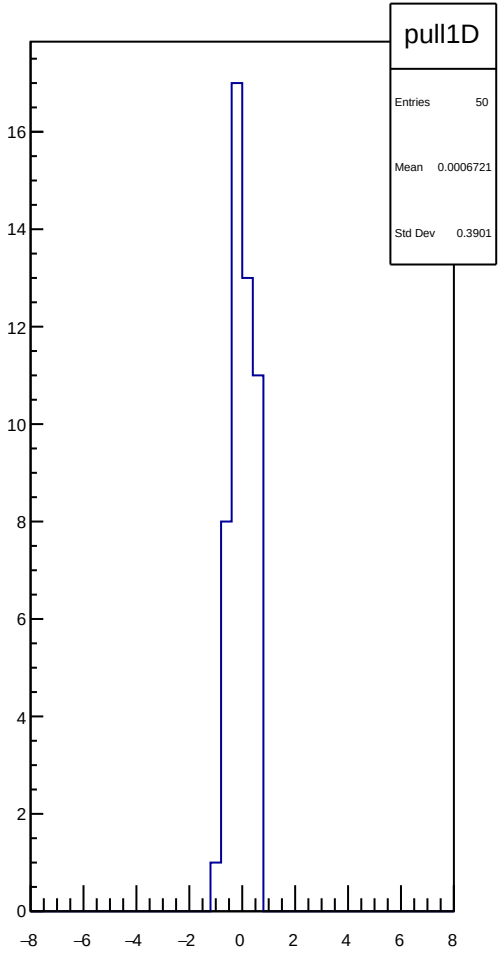
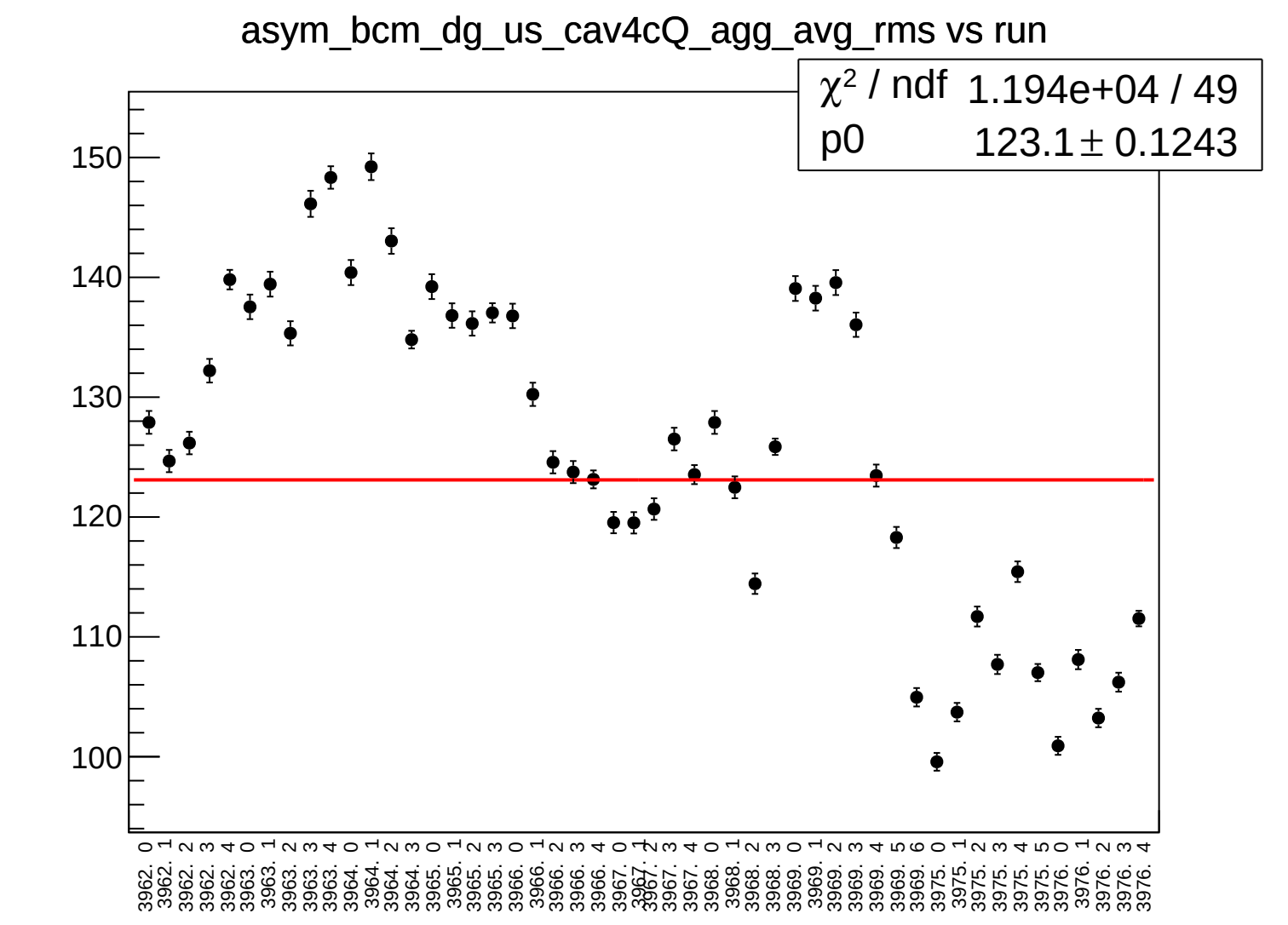
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_dg_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 7.61 / 49
p0 17.93 ± 175.8
pull
Entries 50
Mean 372.9
Std Dev 349.4


pull1D
Entries 50
Mean 0.0006721
Std Dev 0.3901


asym_bcm_dg_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 1.194e+04 / 49
p0 123.1 ± 0.1243
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
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3963. 3
3963. 4
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3964. 2
3964. 3
3965. 0
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3965. 2
3965. 3
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3966. 2
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3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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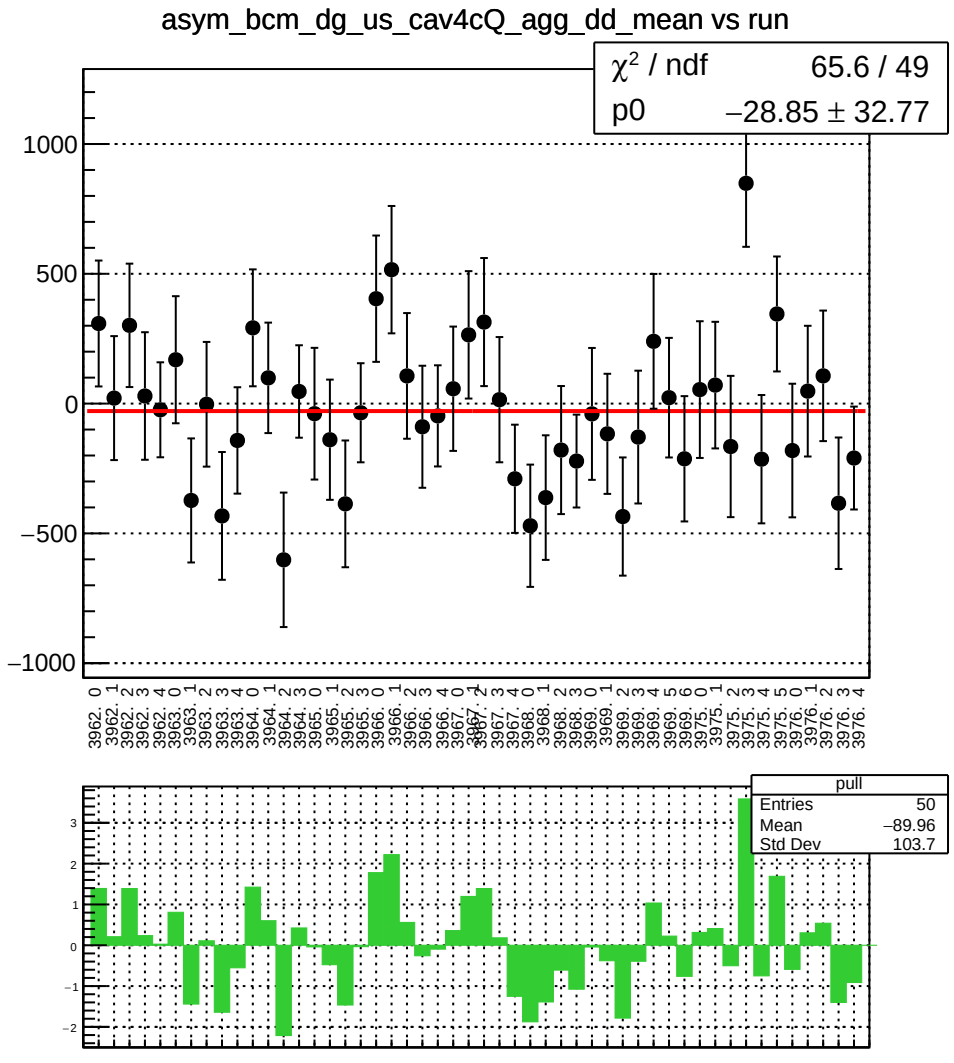
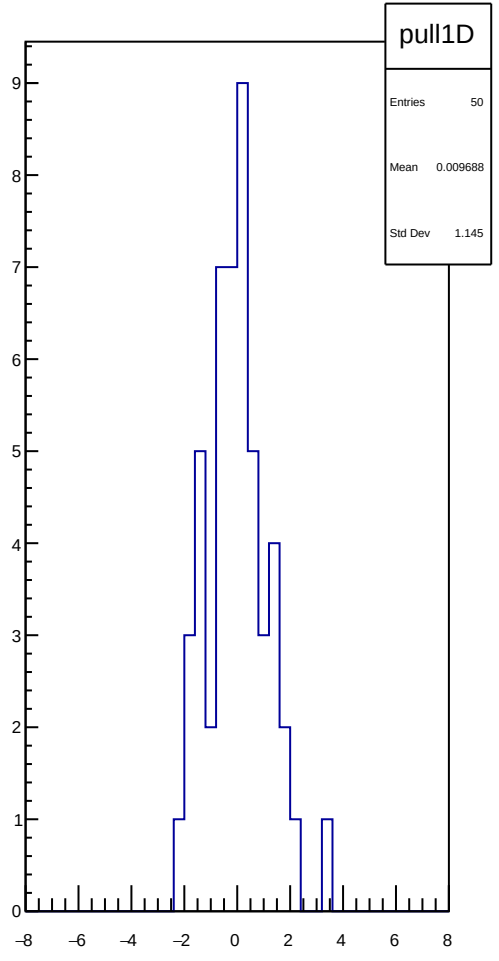
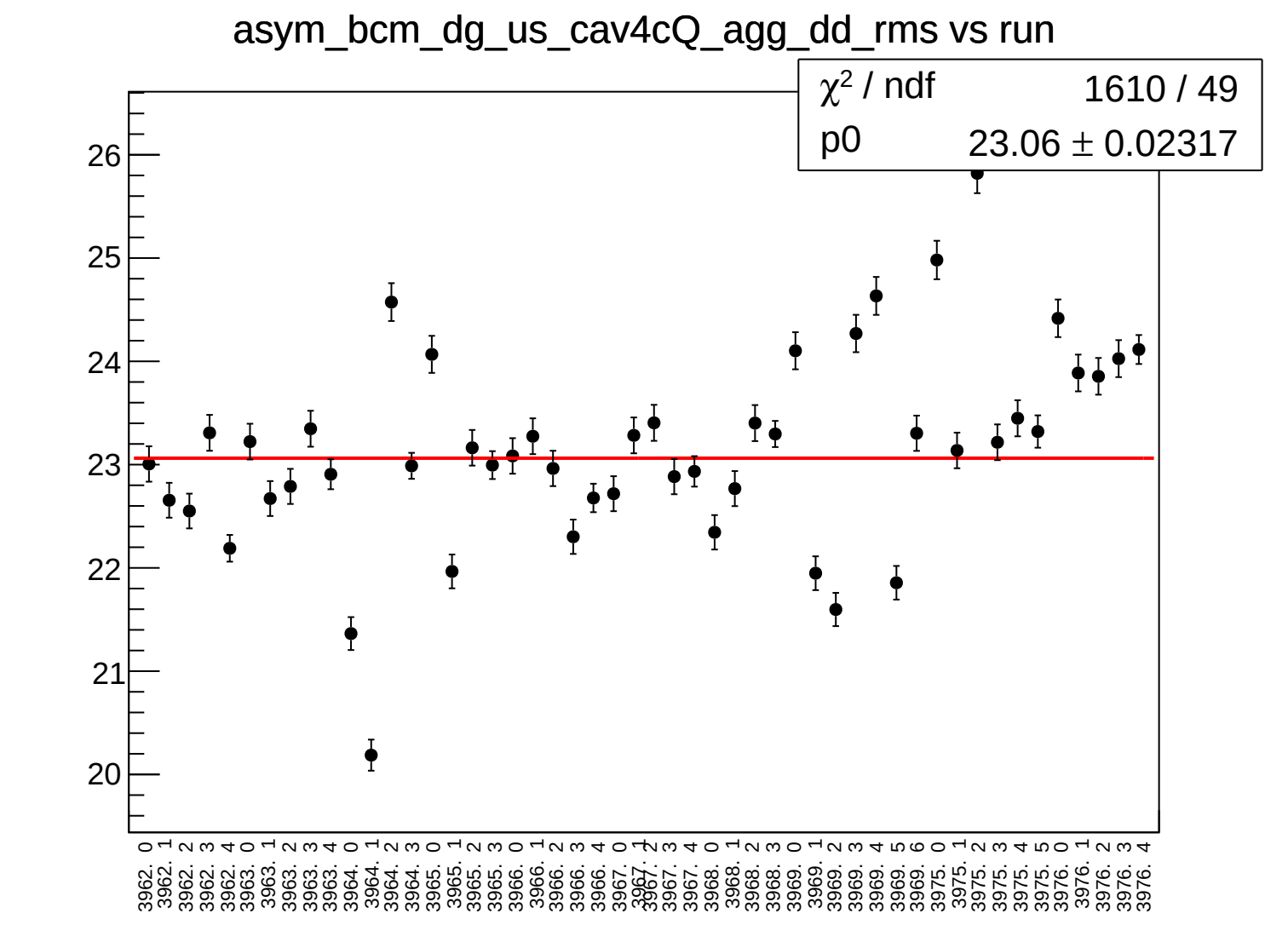
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_dg_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 65.6 / 49
p0 −28.85 ± 32.77
1000
500
0
−500
−1000
pull
Entries 50
Mean −89.96
Std Dev 103.7


pull1D
Entries 50
Mean 0.009688
Std Dev 1.145


asym_bcm_dg_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 1610 / 49
p0 23.06 ± 0.02317
26
25
24
23
22
21
20
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
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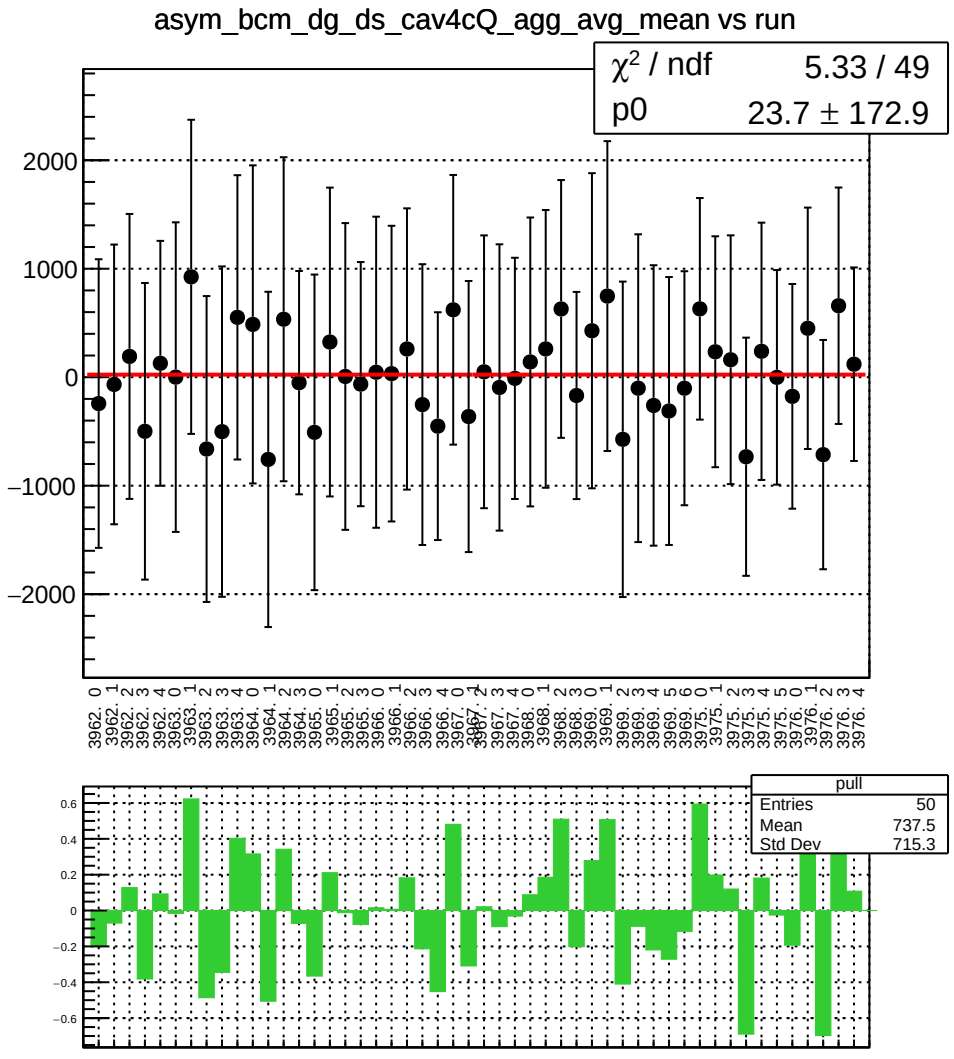
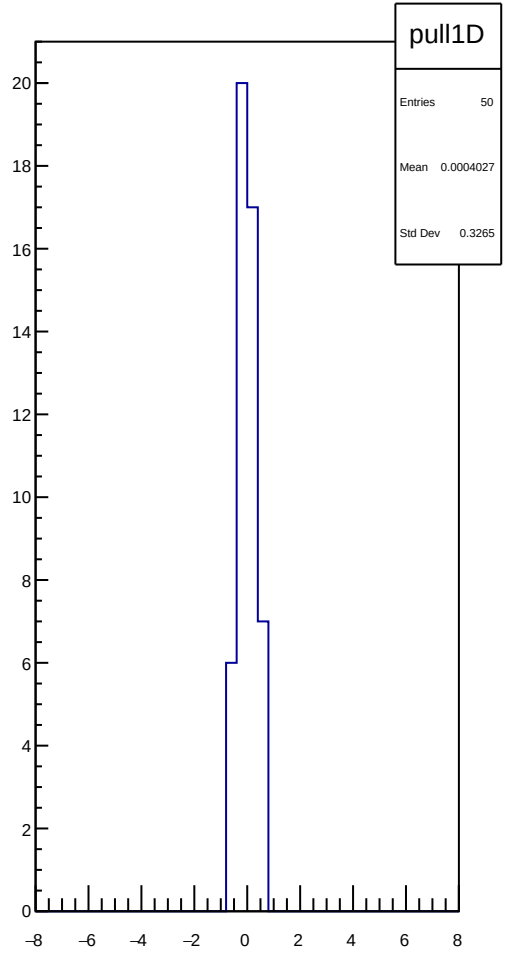
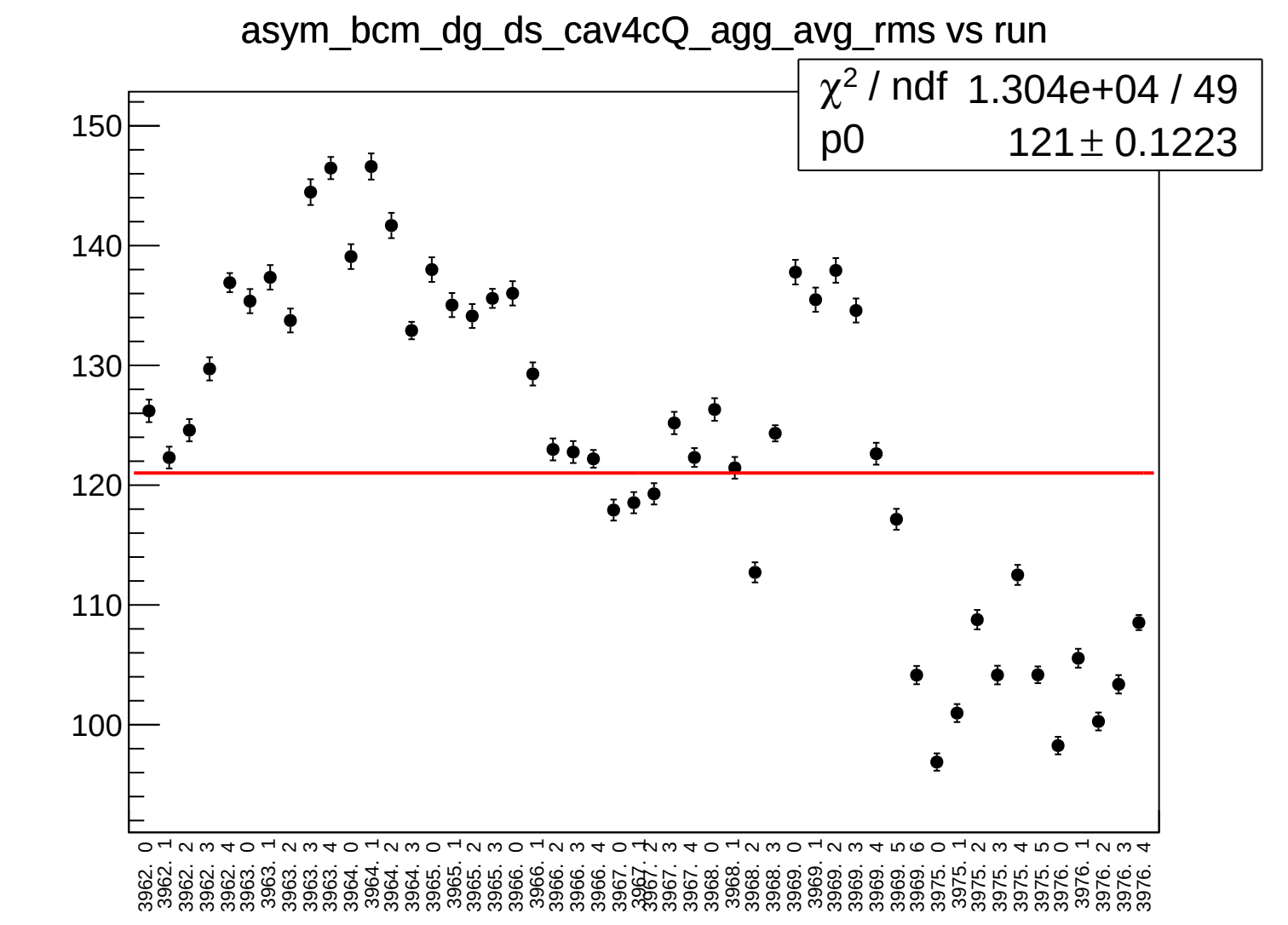

asym_bcm_dg_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 5.33 / 49
p0 23.7 ± 172.9
2000
1000
0
−1000
−2000
pull
Entries 50
Mean 737.5
Std Dev 715.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 50
Mean 0.0004027
Std Dev 0.3265
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 1.304e+04 / 49
p0 121 ± 0.1223
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
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3963. 4
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3968. 1
3968. 2
3968. 3
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3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
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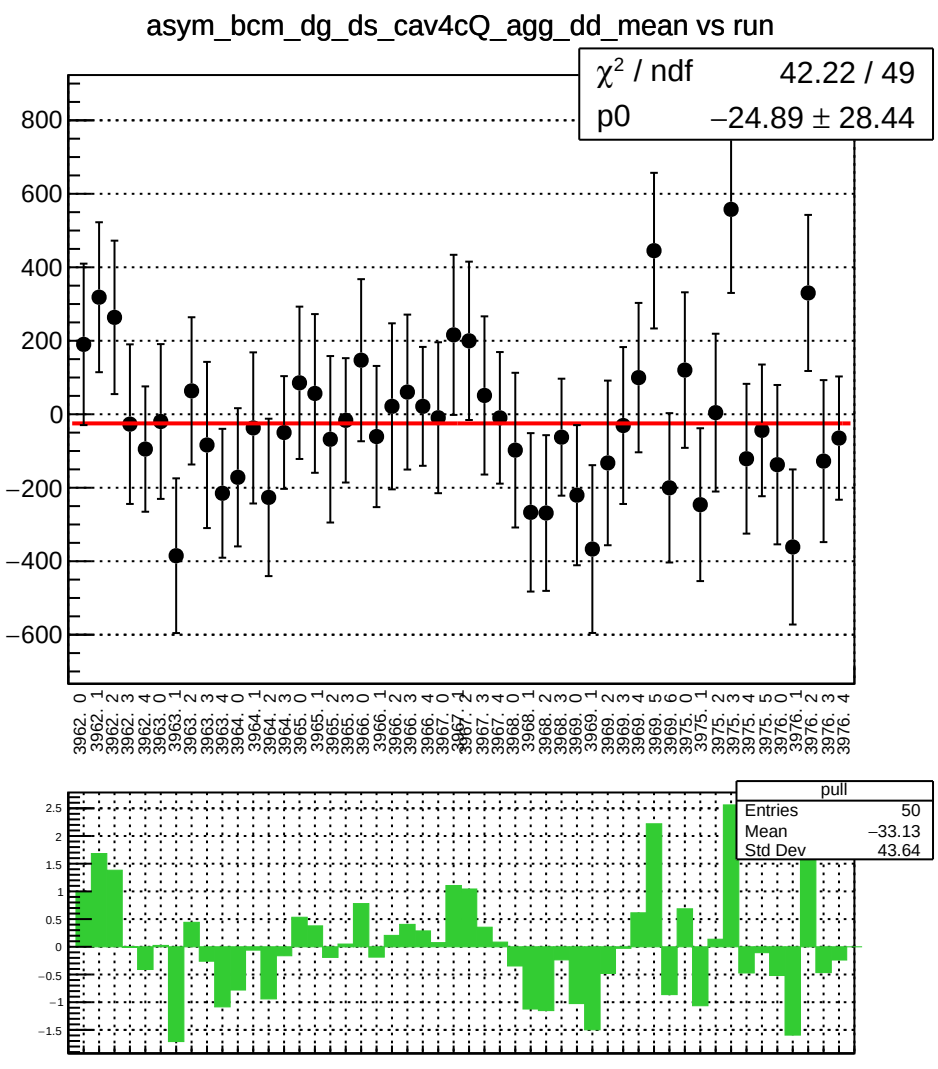
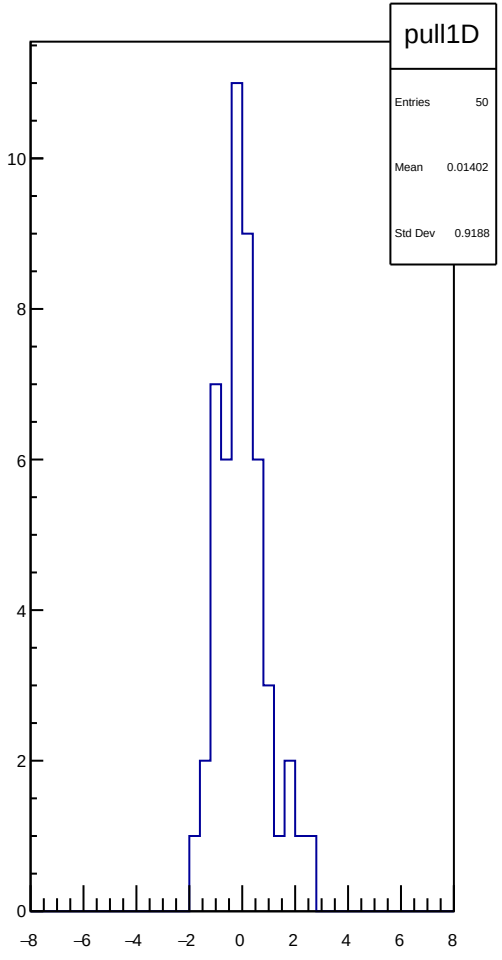
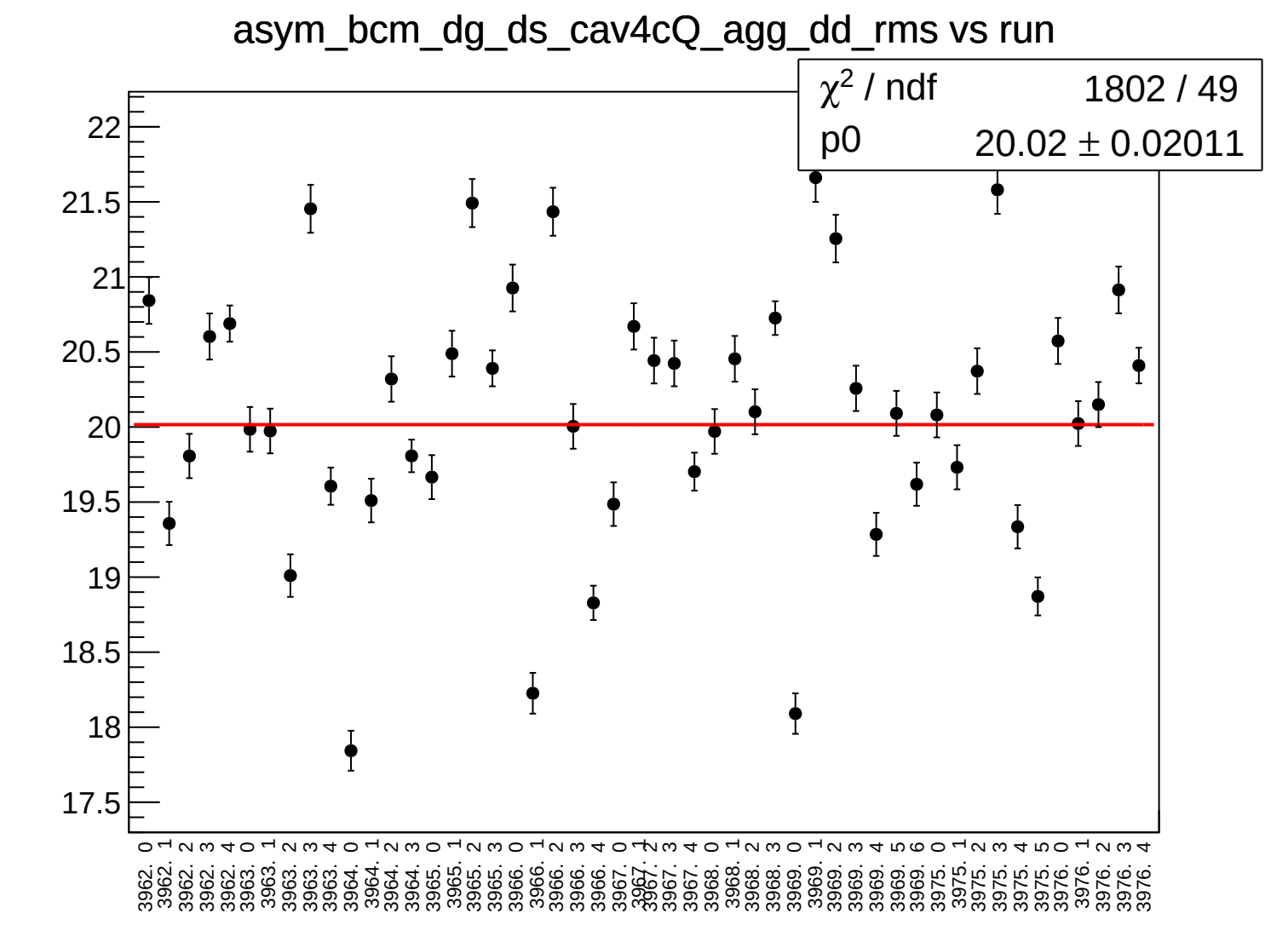
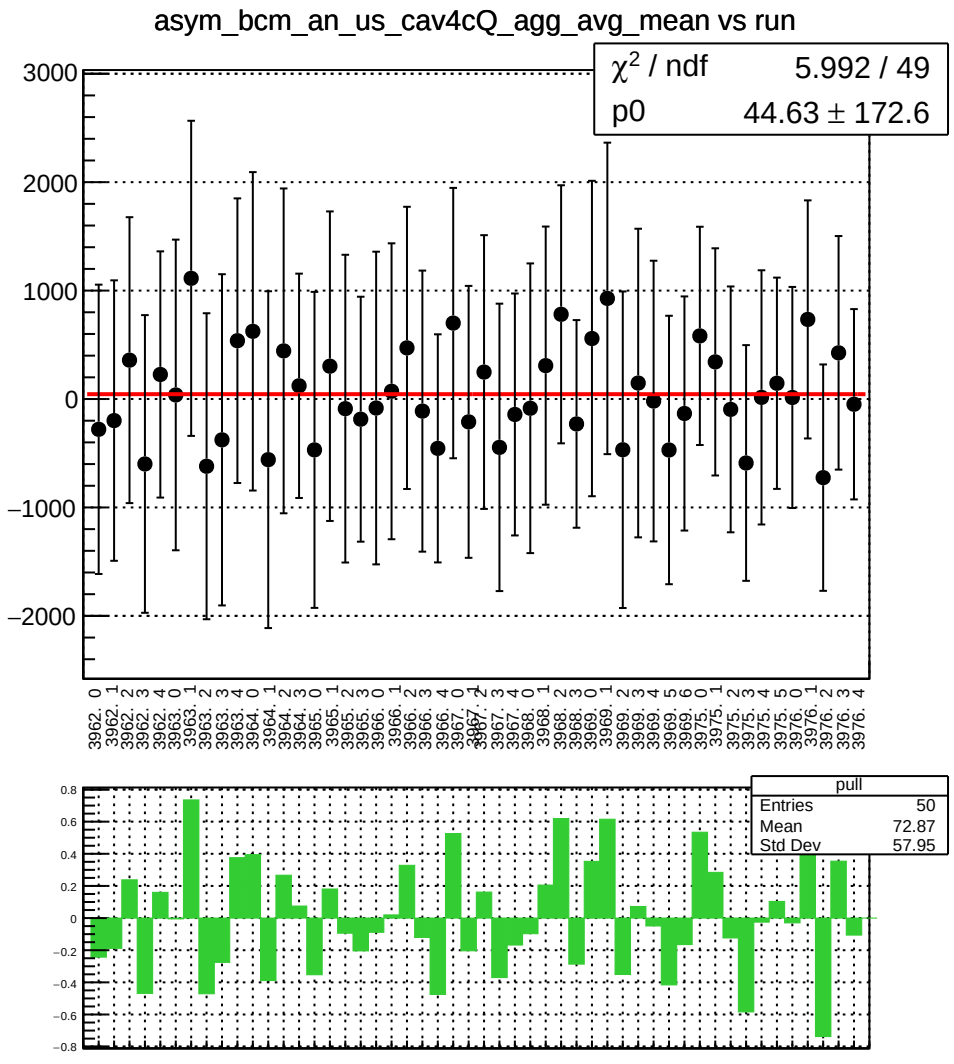
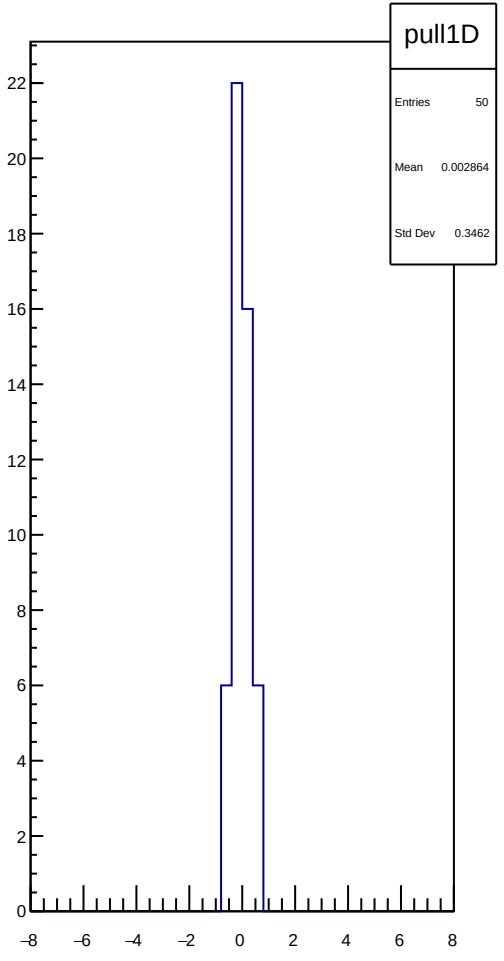
3976. 2
3976. 3
3976. 4

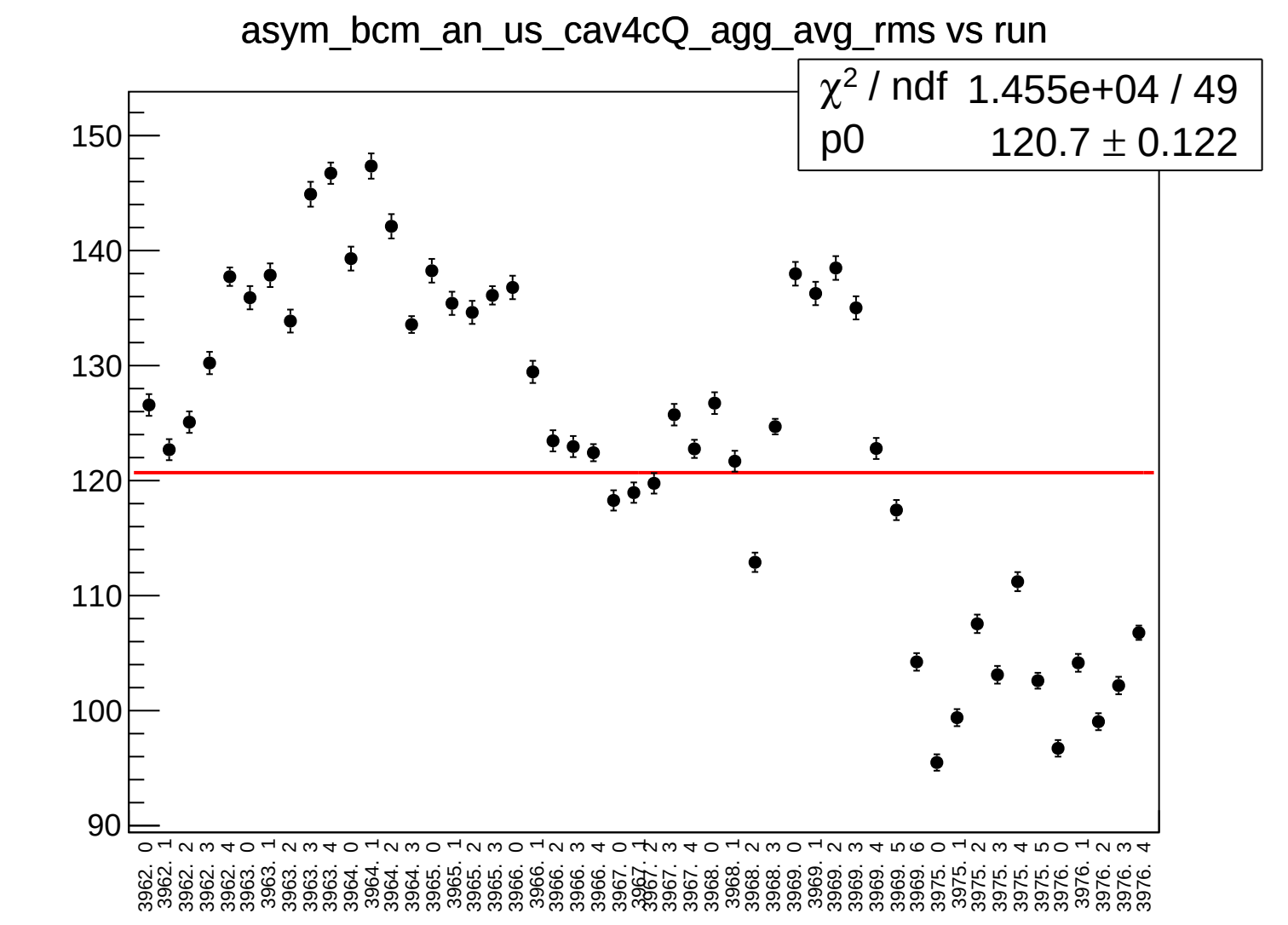

asym_bcm_dg_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 42.22 / 49
p0 −24.89 ± 28.44
pull
Entries 50
Mean −33.13
Std Dev 43.64

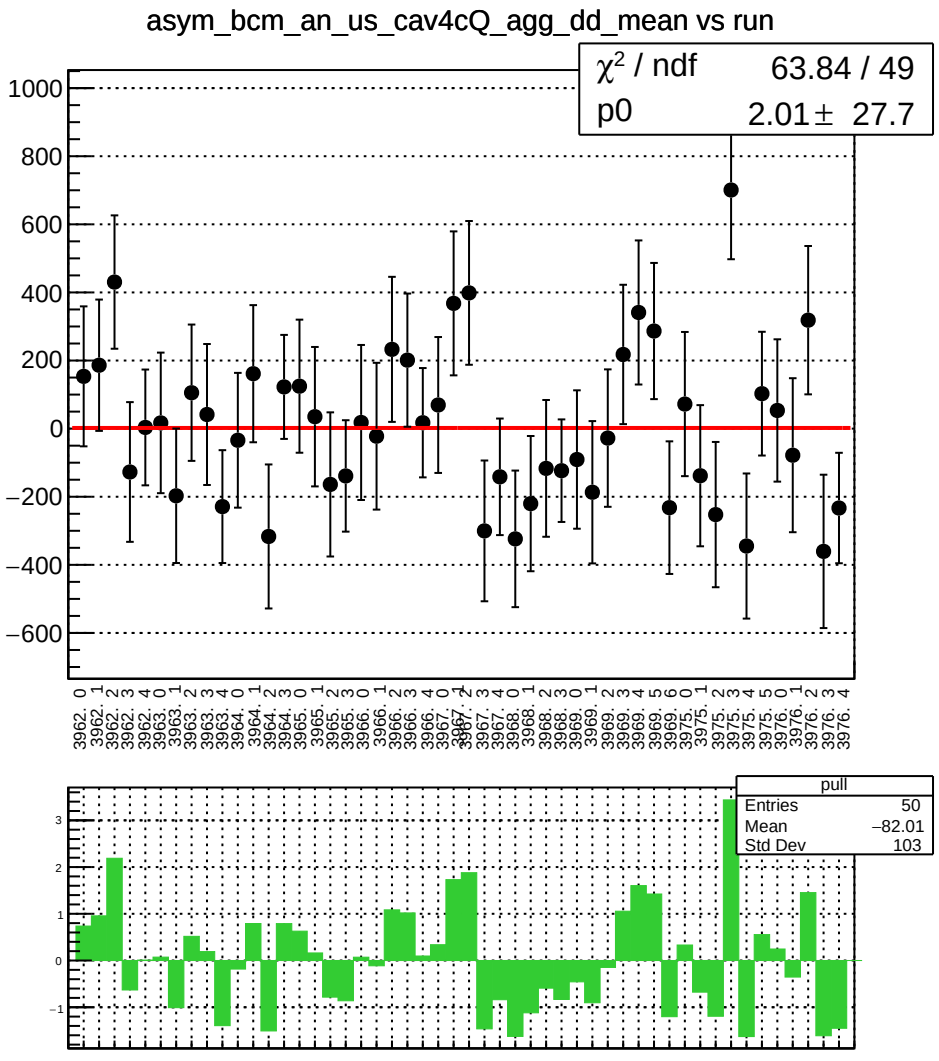

pull1D
Entries 50
Mean 0.01402
Std Dev 0.9188

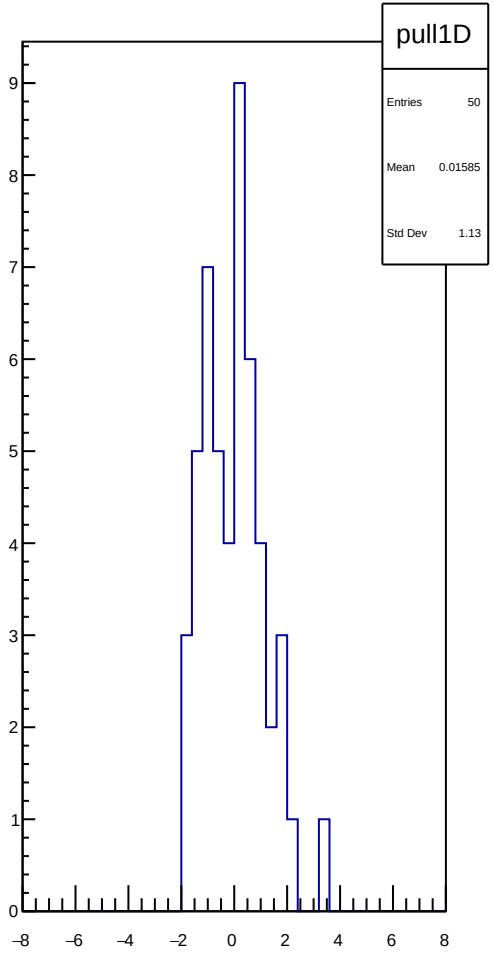

asym_bcm_dg_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 1802 / 49
p0 20.02 ± 0.02011
22
21.5
21
20.5
20
19.5
19
18.5
18
17.5
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

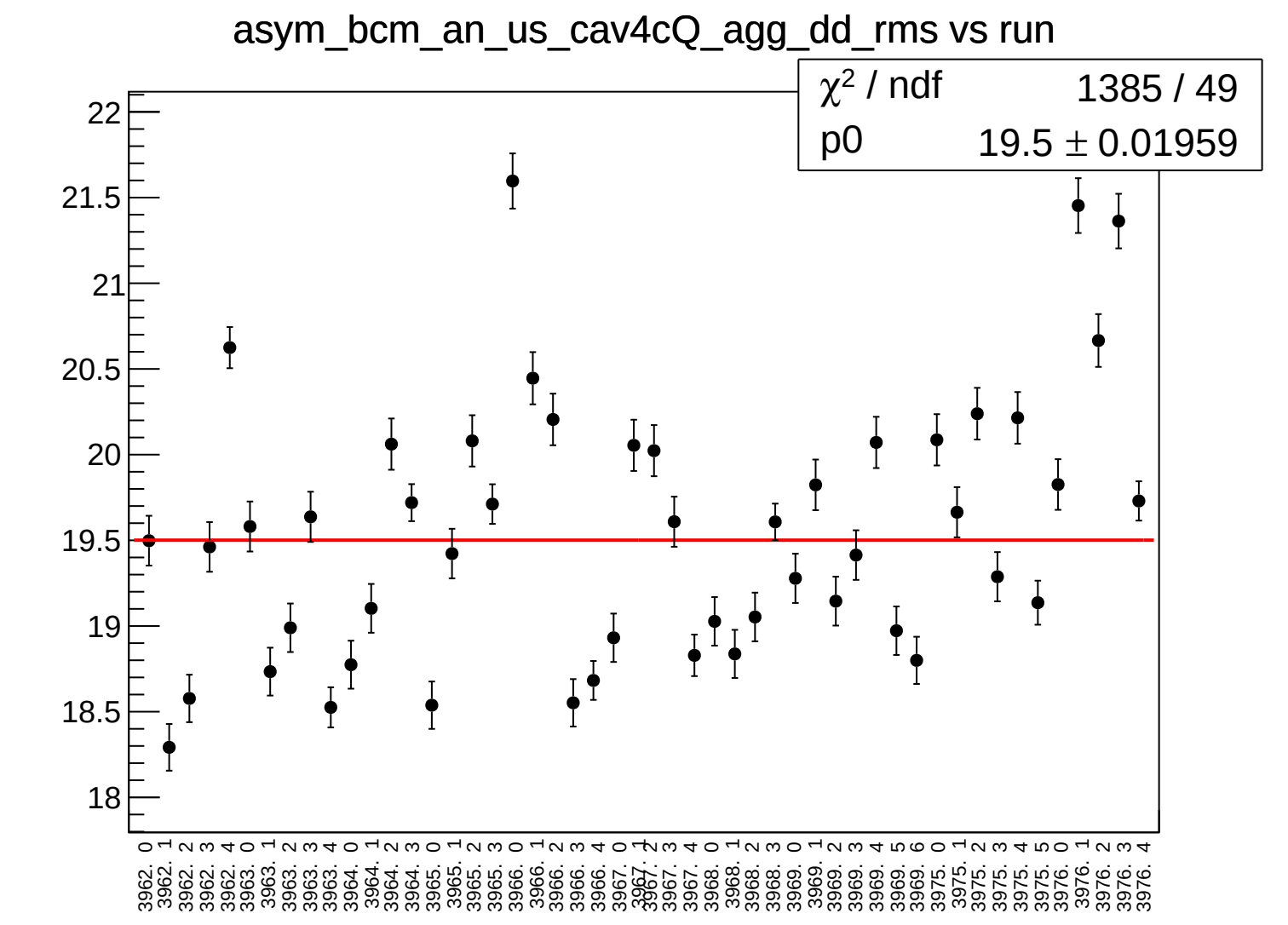

asym_bcm_an_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 5.992 / 49
p0 44.63 ± 172.6
pull
Entries 50
Mean 72.87
Std Dev 57.95


pull1D
Entries 50
Mean 0.002864
Std Dev 0.3462


asym_bcm_an_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 1.455e+04 / 49
p0 120.7 ± 0.122
150
140
130
120
110
100
90
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_an_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 63.84 / 49
p0 2.01± 27.7
pull
Entries 50
Mean −82.01
Std Dev 103


pull1D
Entries 50
Mean 0.01585
Std Dev 1.13


asym_bcm_an_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 1385 / 49
p0 19.5 ± 0.01959
22
21.5
21
20.5
20
19.5
19
18.5
18
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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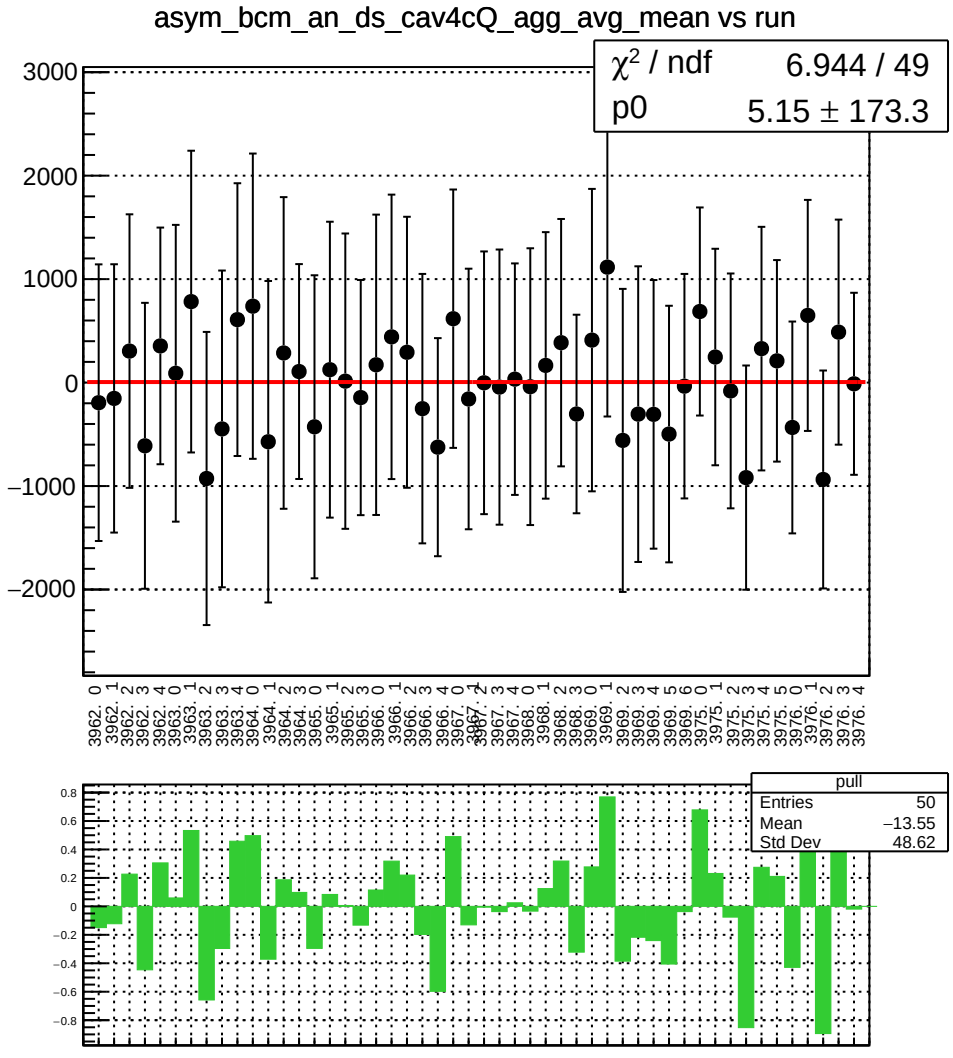
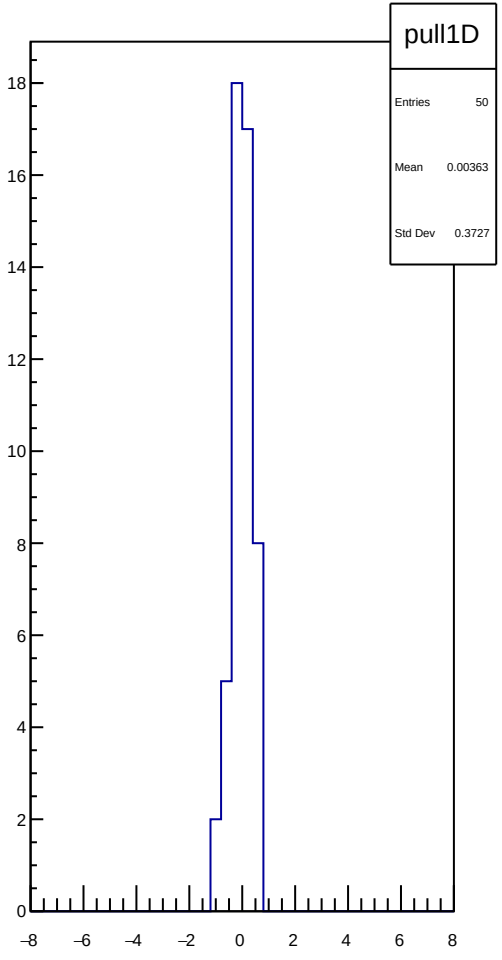
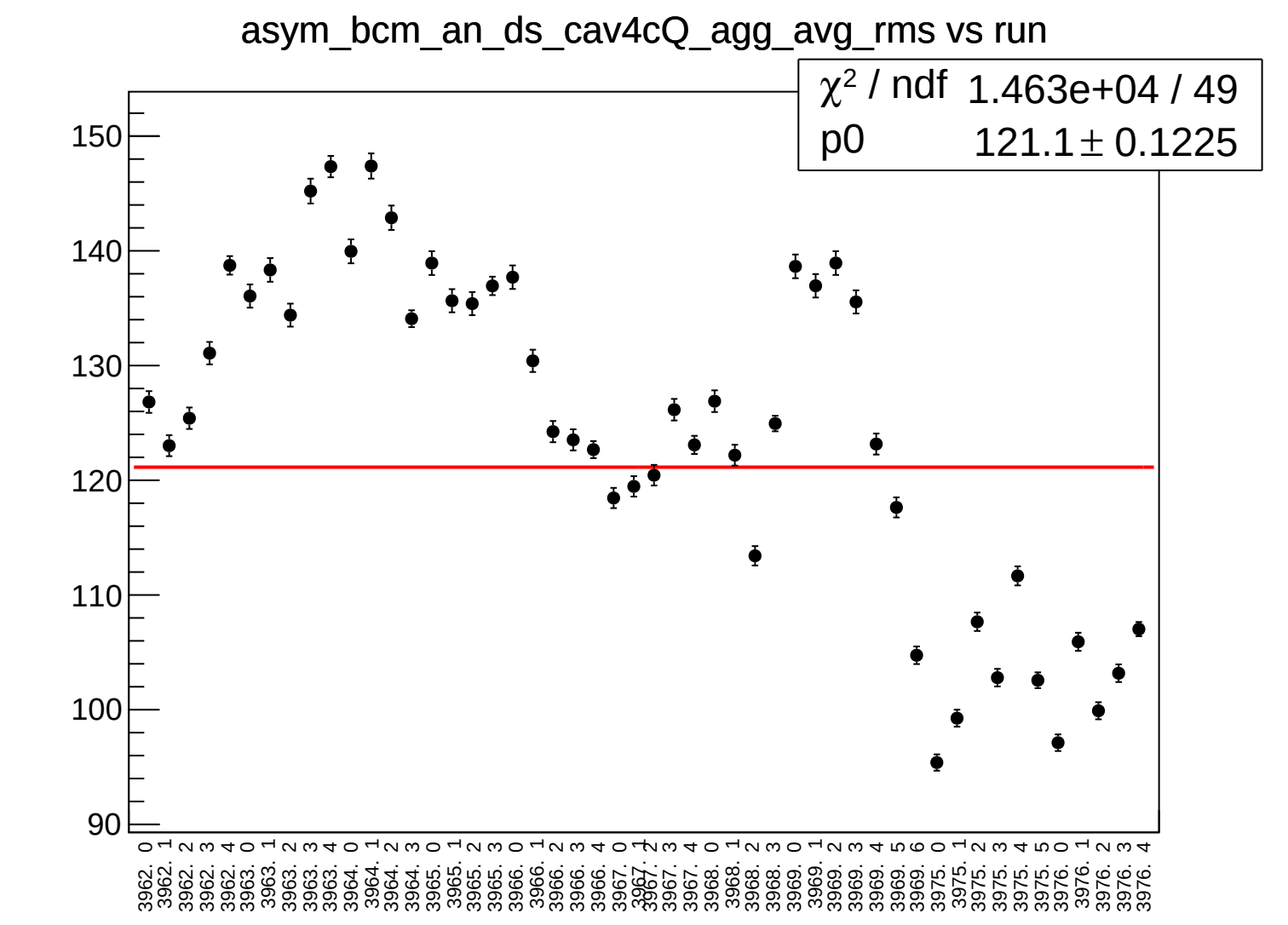
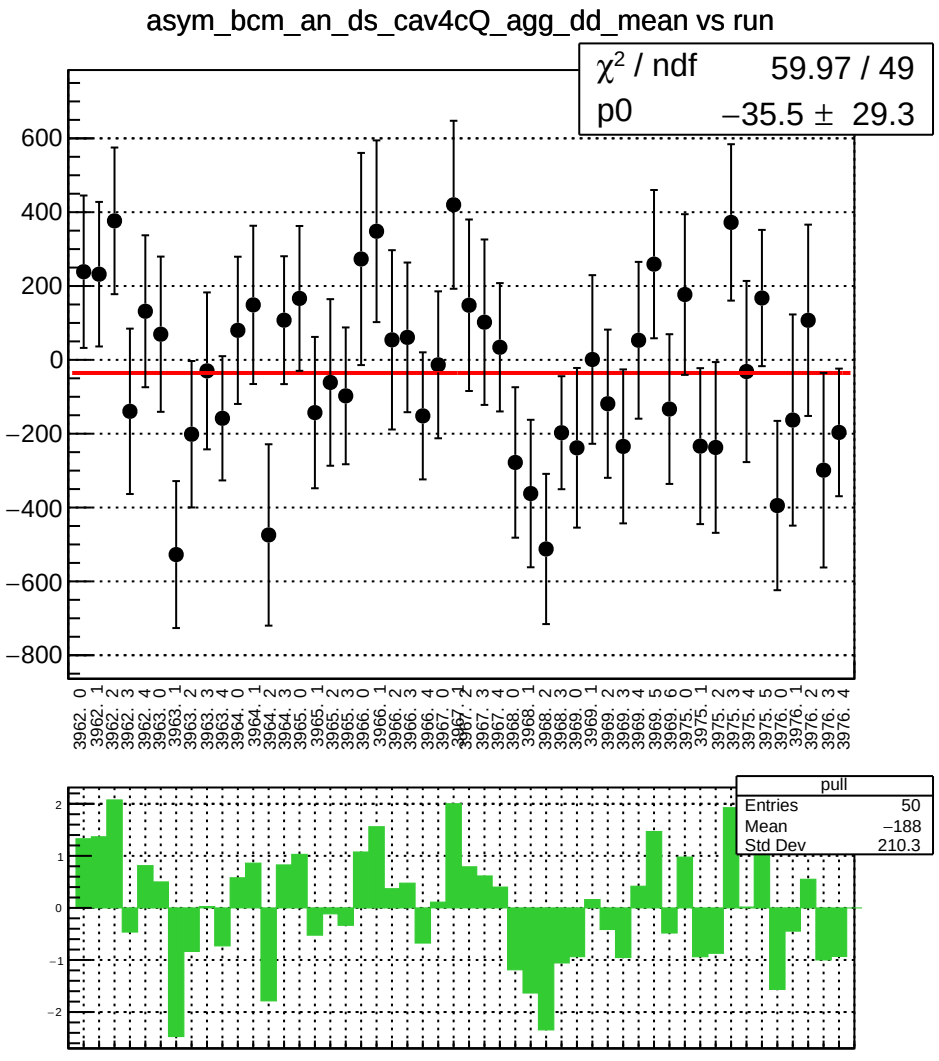
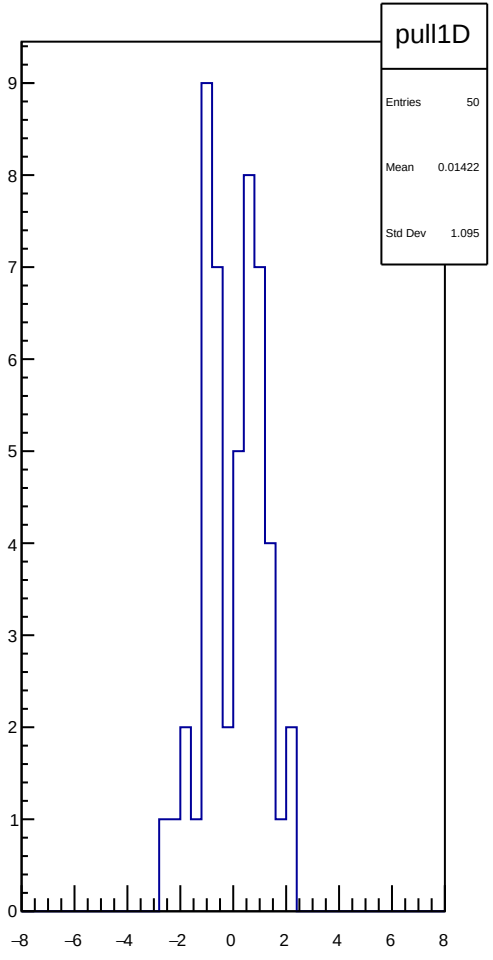
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

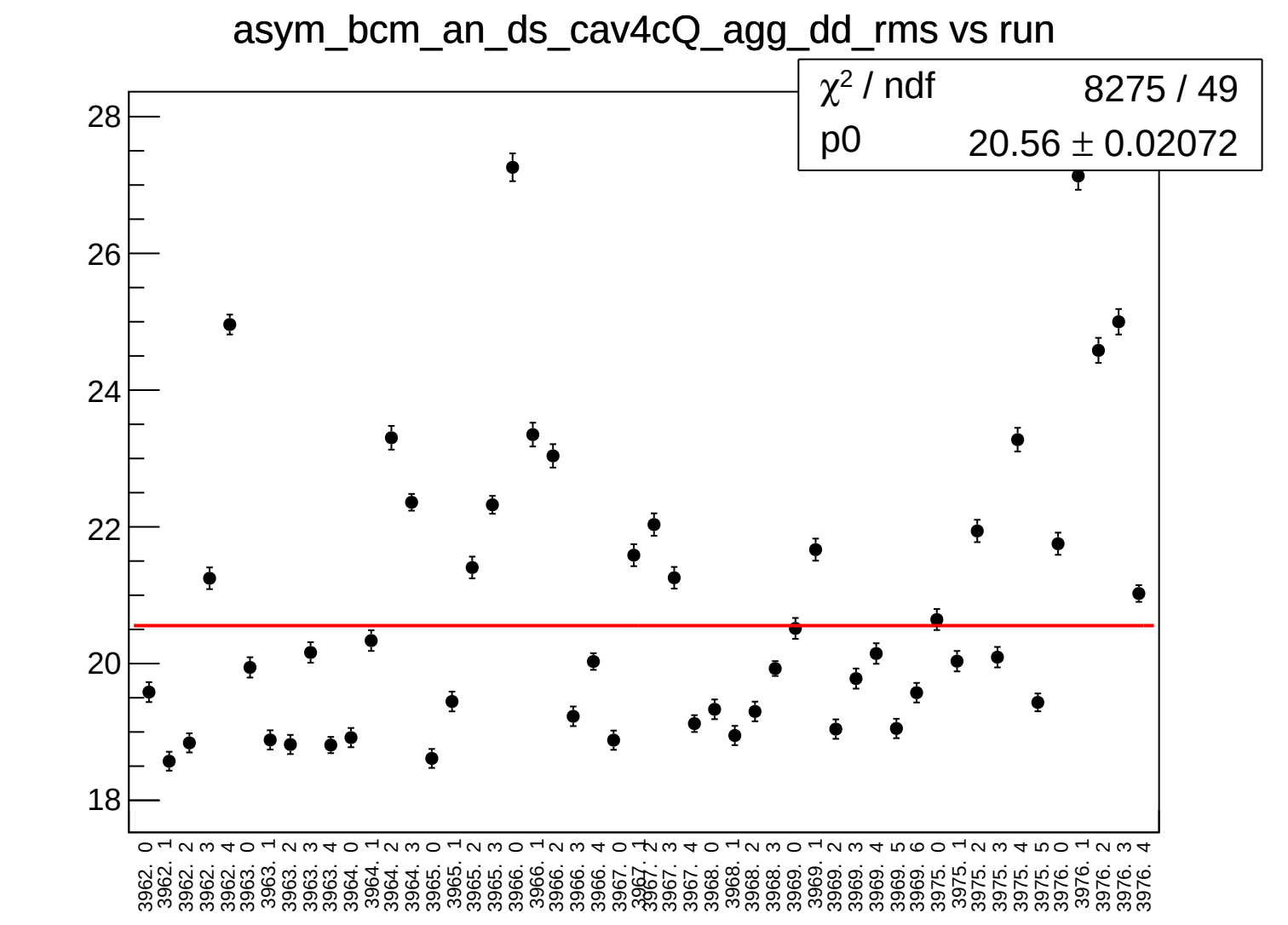

asym_bcm_an_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 6.944 / 49
p0 5.15 ± 173.3
pull
Entries 50
Mean −13.55
Std Dev 48.62

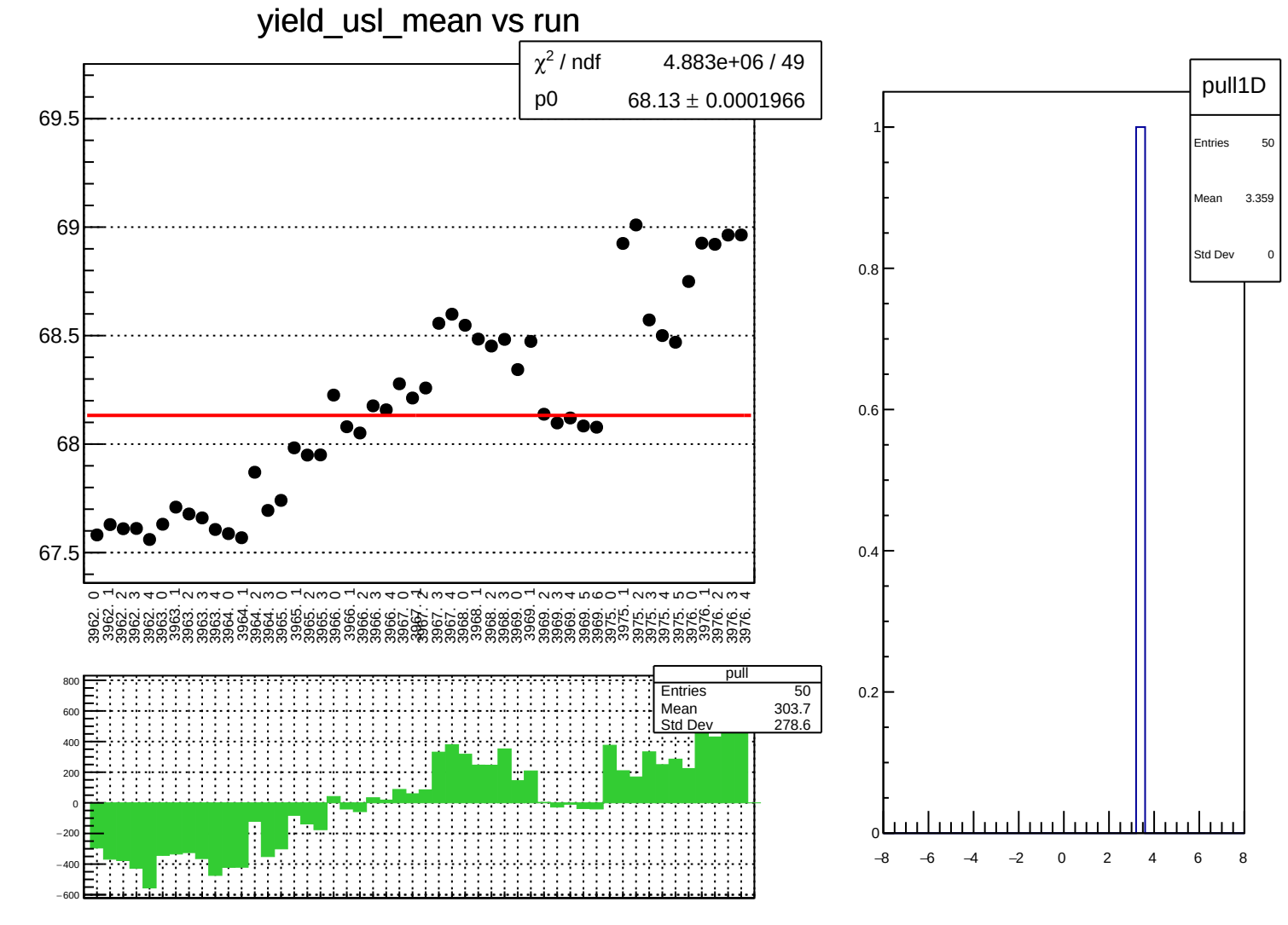

pull1D
Entries 50
Mean 0.00363
Std Dev 0.3727

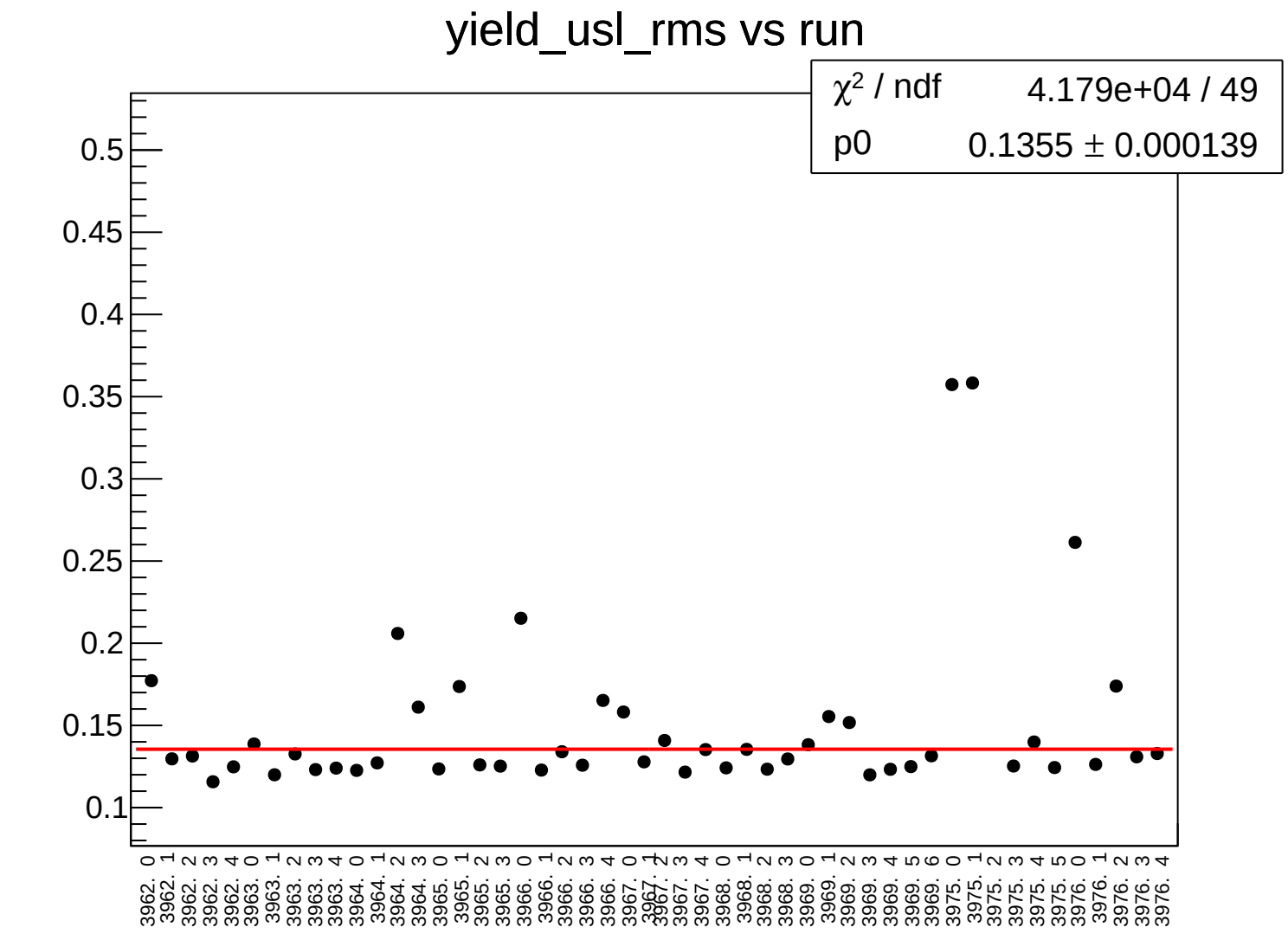

asym_bcm_an_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 1.463e+04 / 49
p0 121.1 ± 0.1225
150
140
130
120
110
100
90
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_bcm_an_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 59.97 / 49
p0 −35.5 ± 29.3
pull
Entries 50
Mean −188
Std Dev 210.3


pull1D
Entries 50
Mean 0.01422
Std Dev 1.095


asym_bcm_an_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 8275 / 49
p0 20.56 ± 0.02072
28
26
24
22
20
18
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


yield_usl_mean vs run
χ² / ndf 4.883e+06 / 49
p0 68.13 ± 0.0001966
69.5
69
68.5
68
67.5
pull
Entries 50
Mean 303.7
Std Dev 278.6
800
600
400
200
0
−200
−400
−600
pull1D
Entries 50
Mean 3.359
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 4.179e+04 / 49
p0 0.1355 ± 0.000139
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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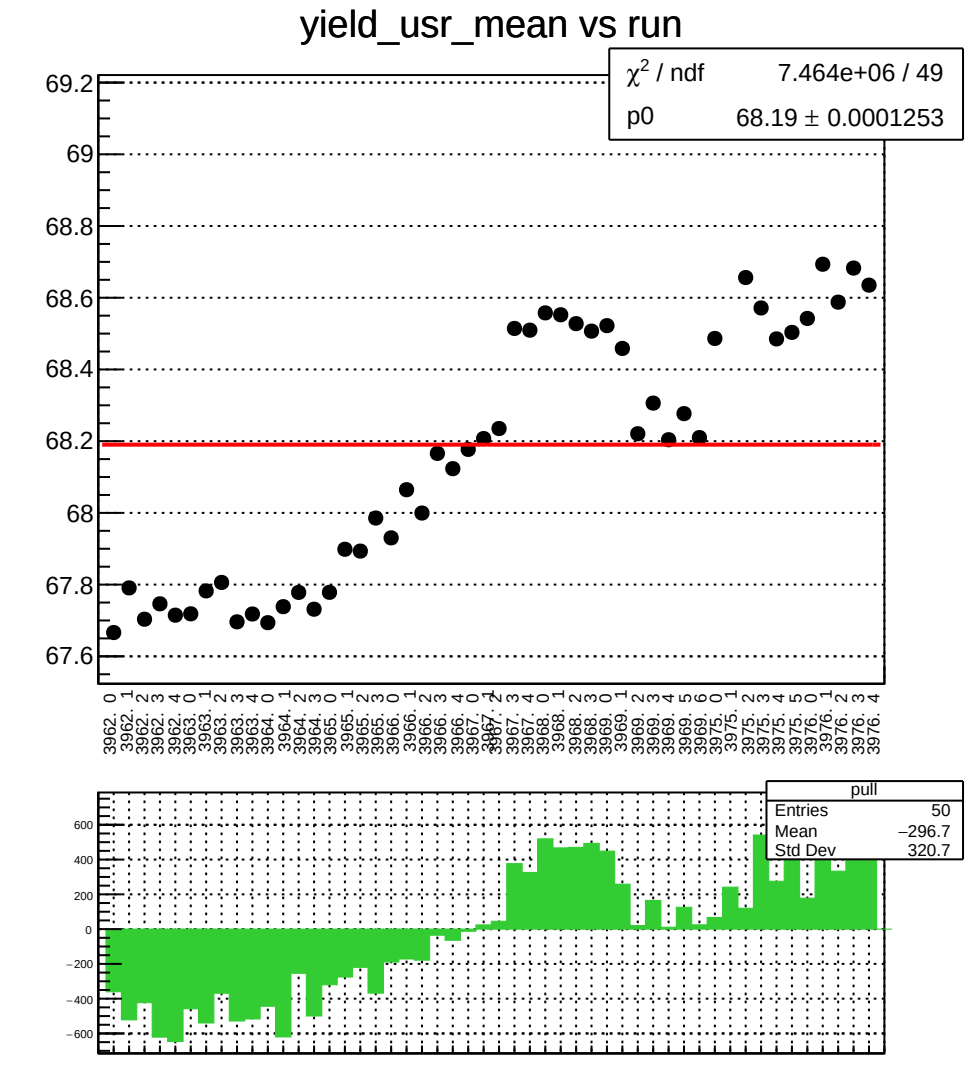
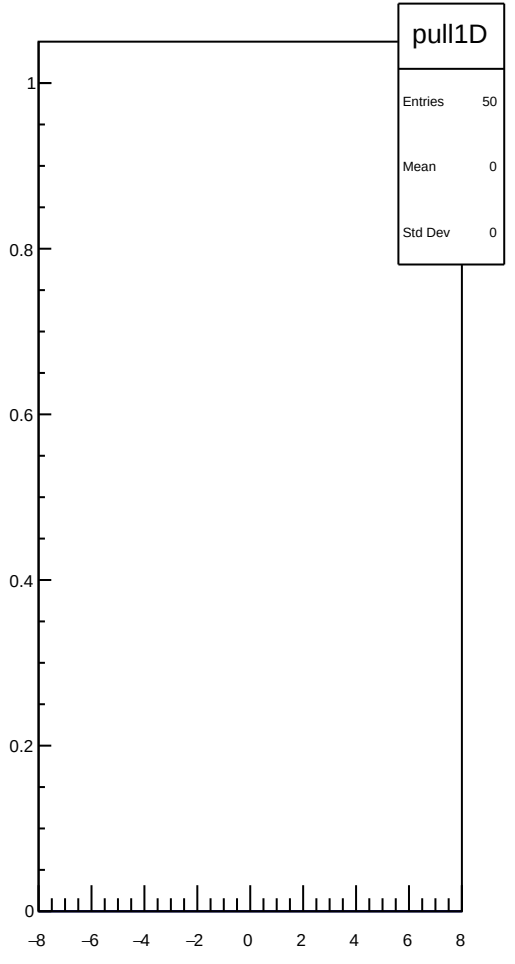
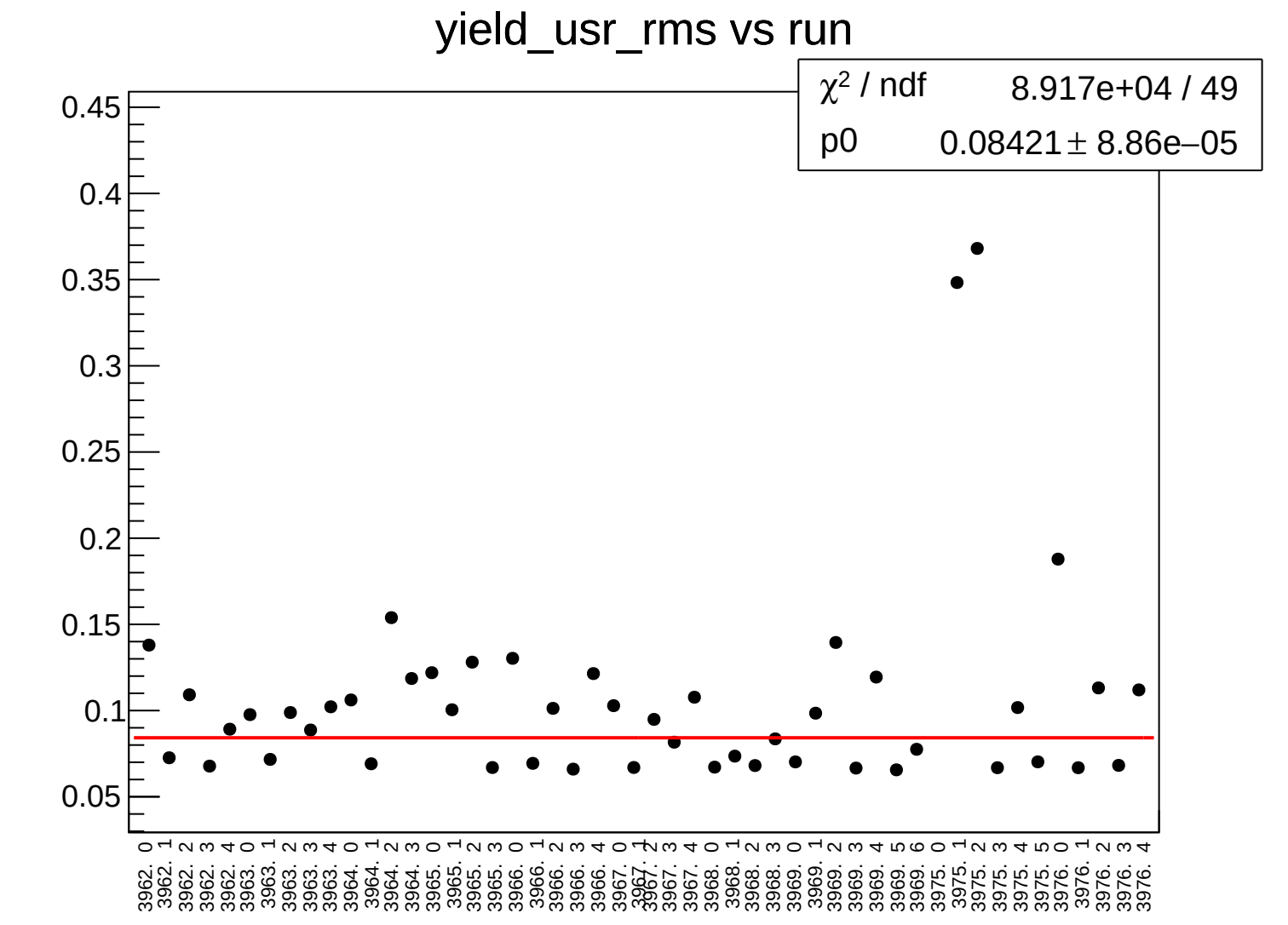
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


yield_usr_mean vs run
χ² / ndf 7.464e+06 / 49
p0 68.19 ± 0.0001253
69.2
69
68.8
68.6
68.4
68.2
68
67.8
67.6
pull
Entries 50
Mean −296.7
Std Dev 320.7
600
400
200
0
−200
−400
−600


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


yield_usr_rms vs run
χ² / ndf 8.917e+04 / 49
p0 0.08421 ± 8.86e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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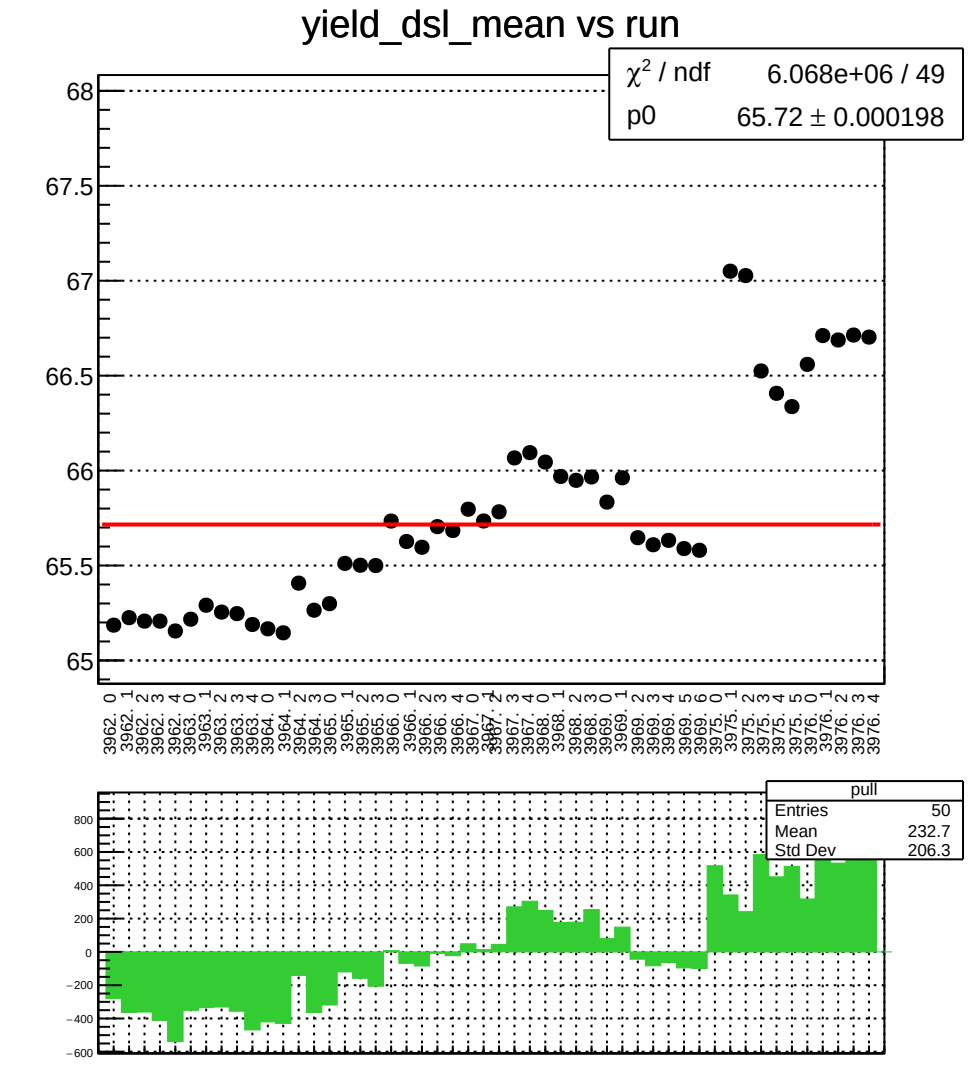
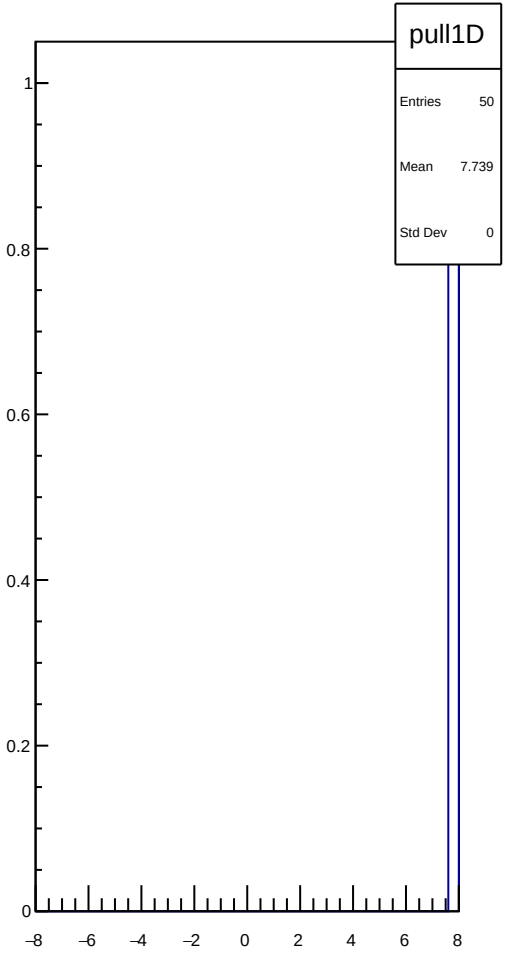
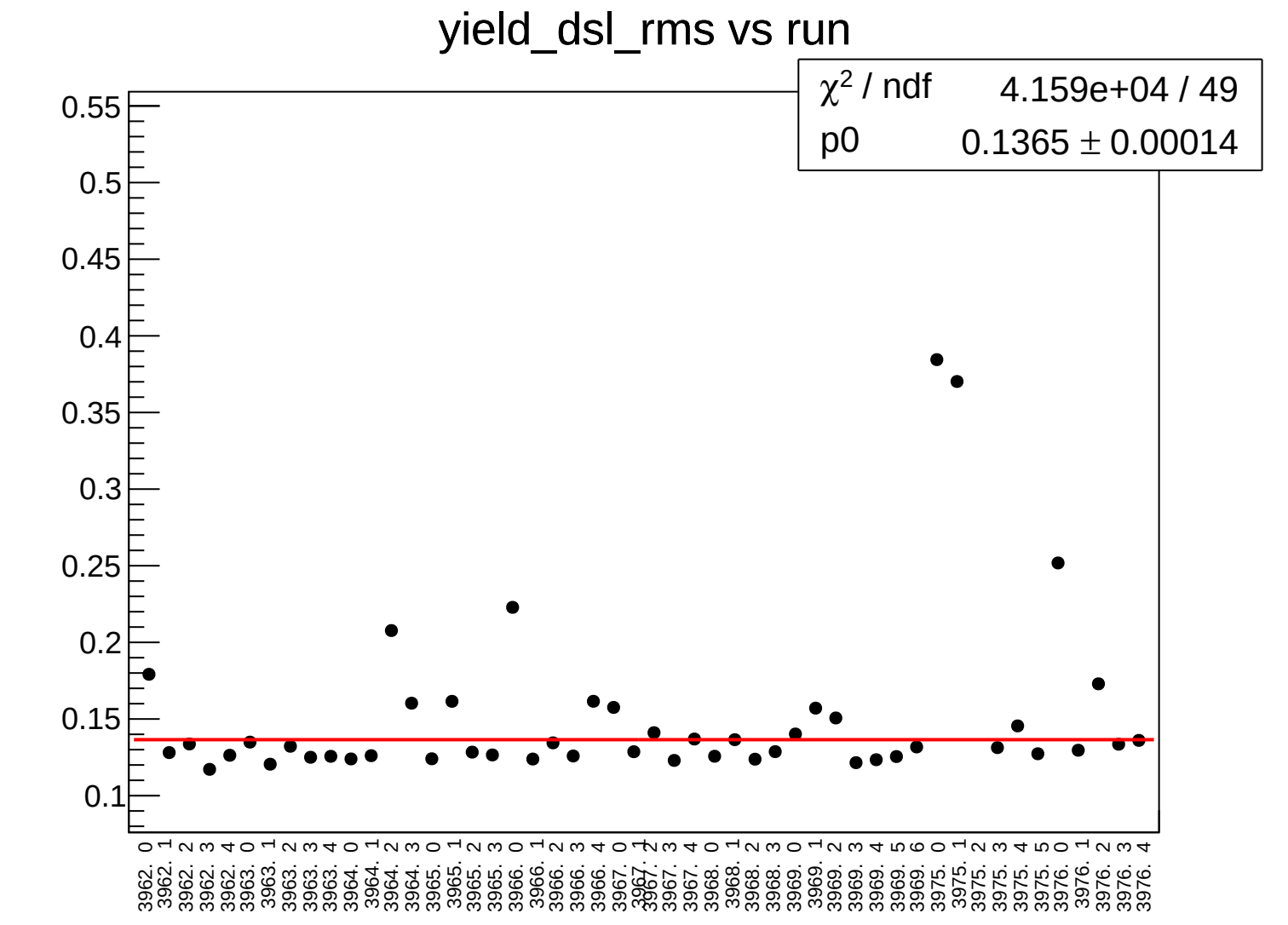
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


yield_dsl_mean vs run
χ² / ndf 6.068e+06 / 49
p0 65.72 ± 0.000198
68
67.5
67
66.5
66
65.5
65
pull
Entries 50
Mean 232.7
Std Dev 206.3
800
600
400
200
0
−200
−400
−600


pull1D
Entries 50
Mean 7.739
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
χ^2 / ndf 4.159e+04 / 49
p0 0.1365 ± 0.00014
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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3964. 2
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3966. 3
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3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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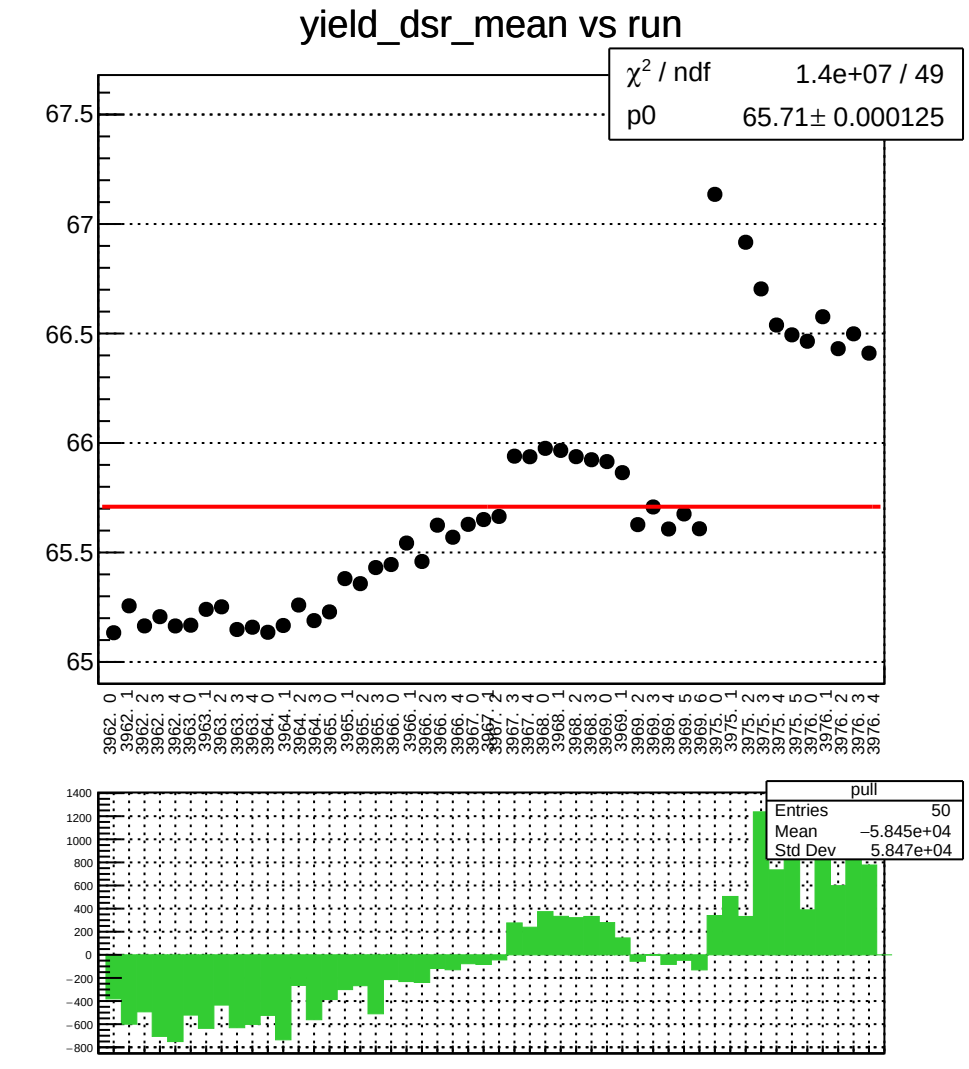
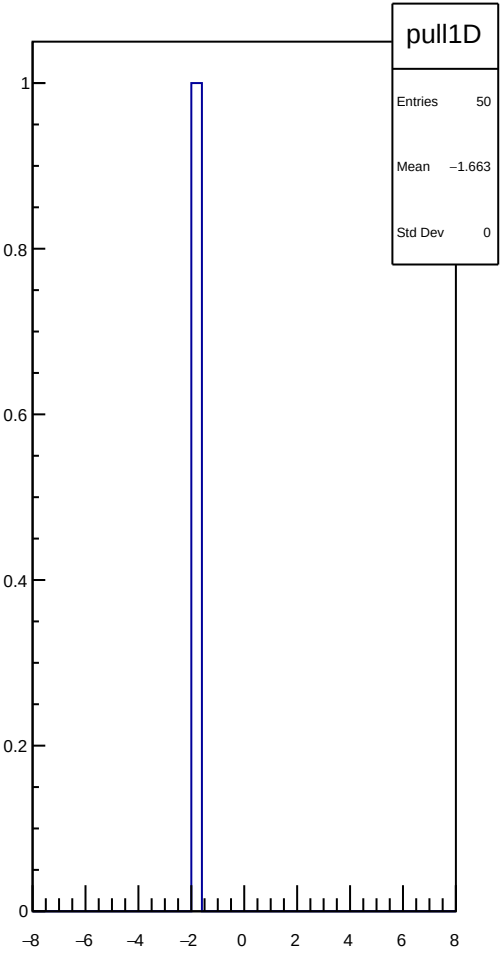
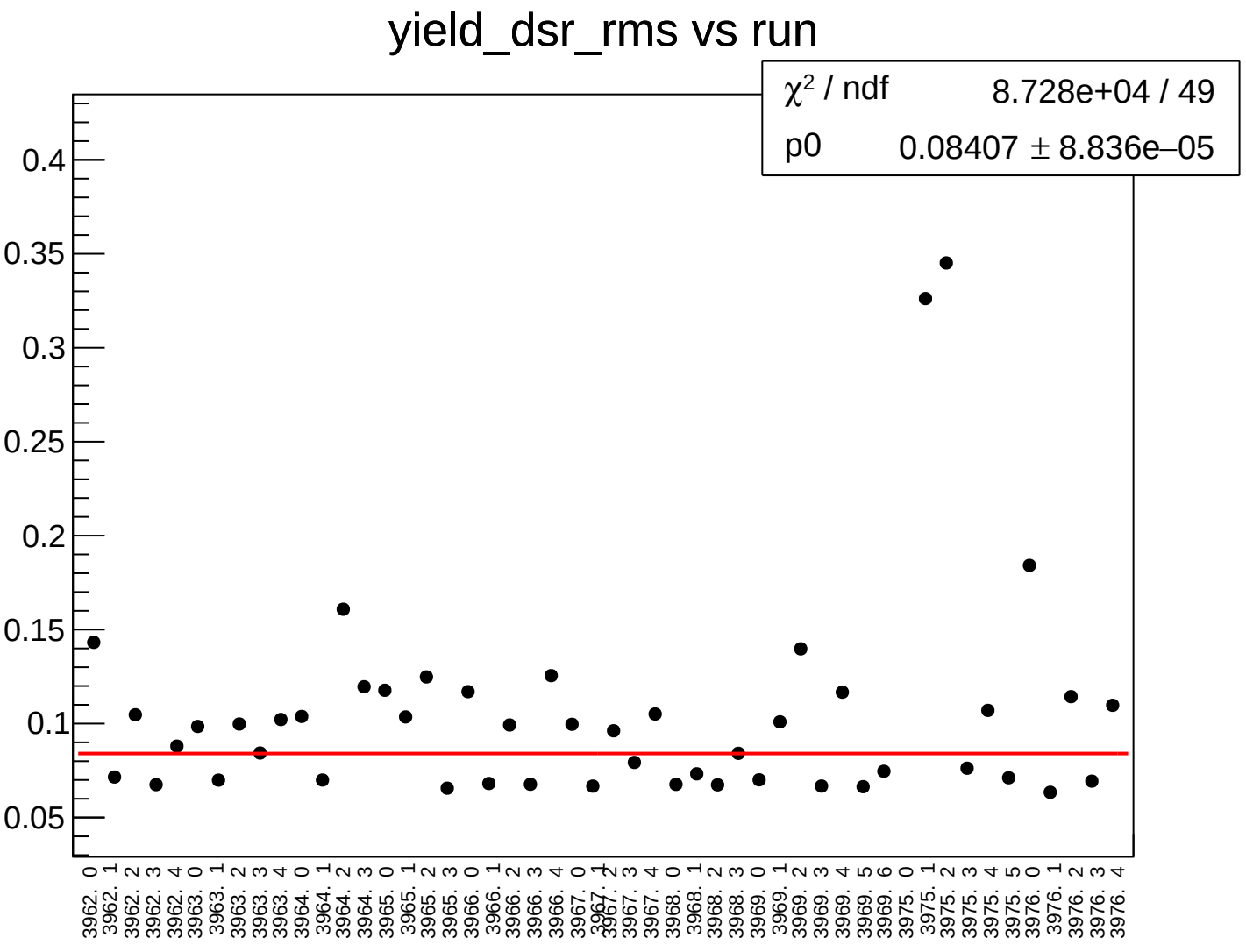
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


yield_dsr_mean vs run
χ² / ndf 1.4e+07 / 49
p0 65.71± 0.000125
67.5
67
66.5
66
65.5
65
pull
Entries 50
Mean −5.845e+04
Std Dev 5.847e+04
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800


pull1D
Entries 50
Mean −1.663
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 8.728e+04 / 49
p0 0.08407 ± 8.836e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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3975. 3
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3976. 0
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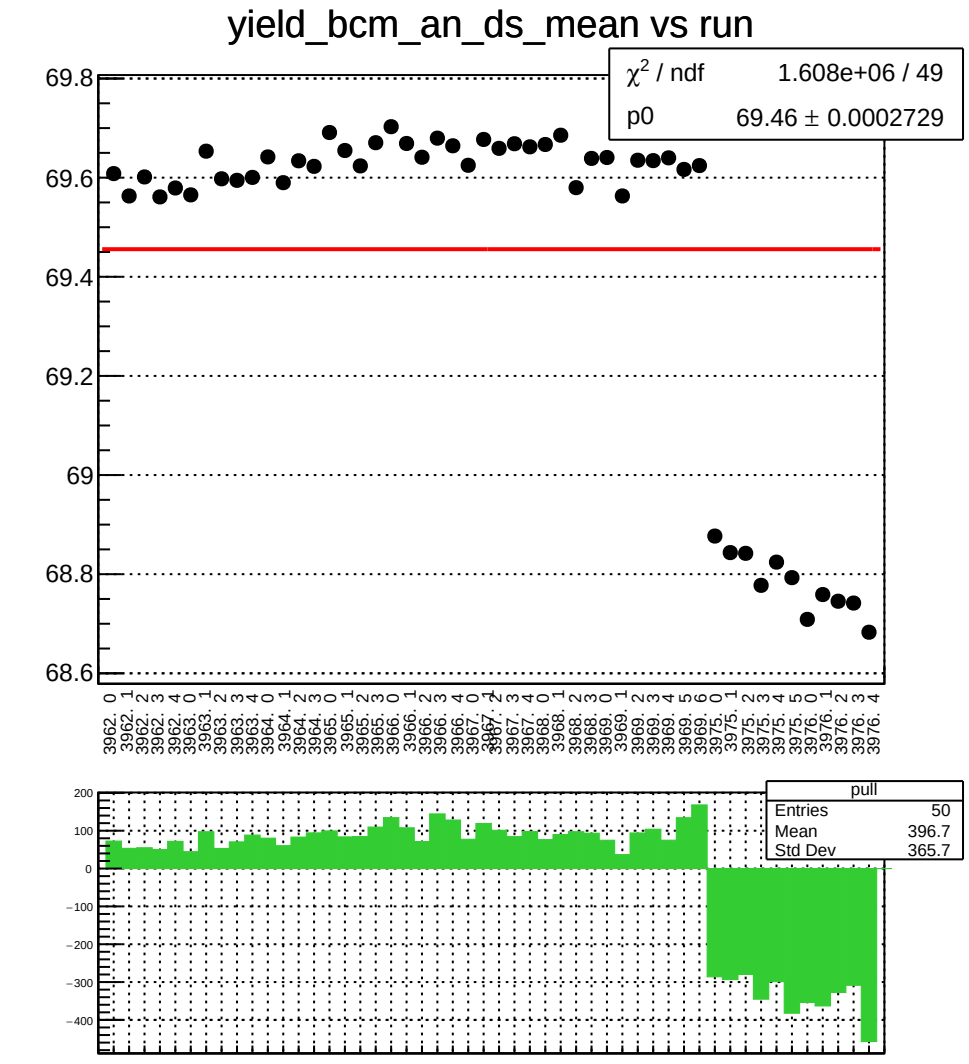
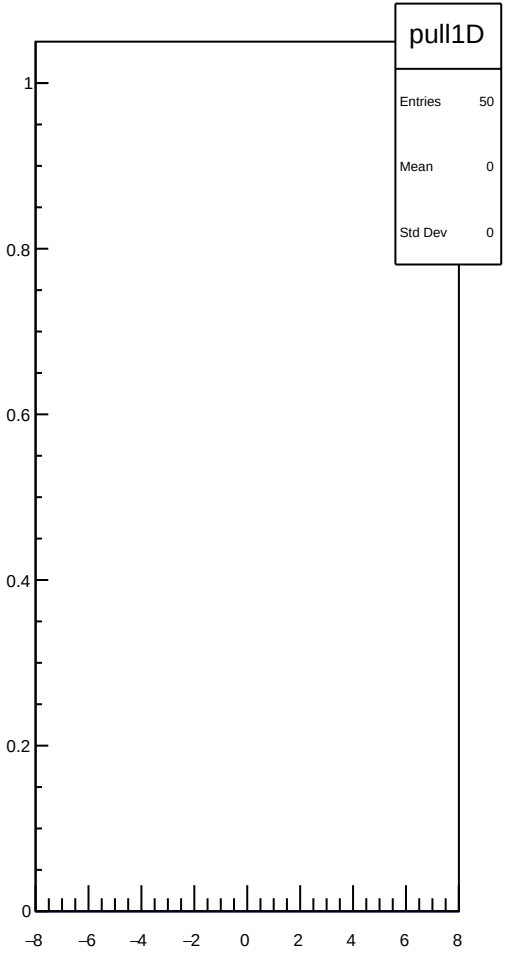
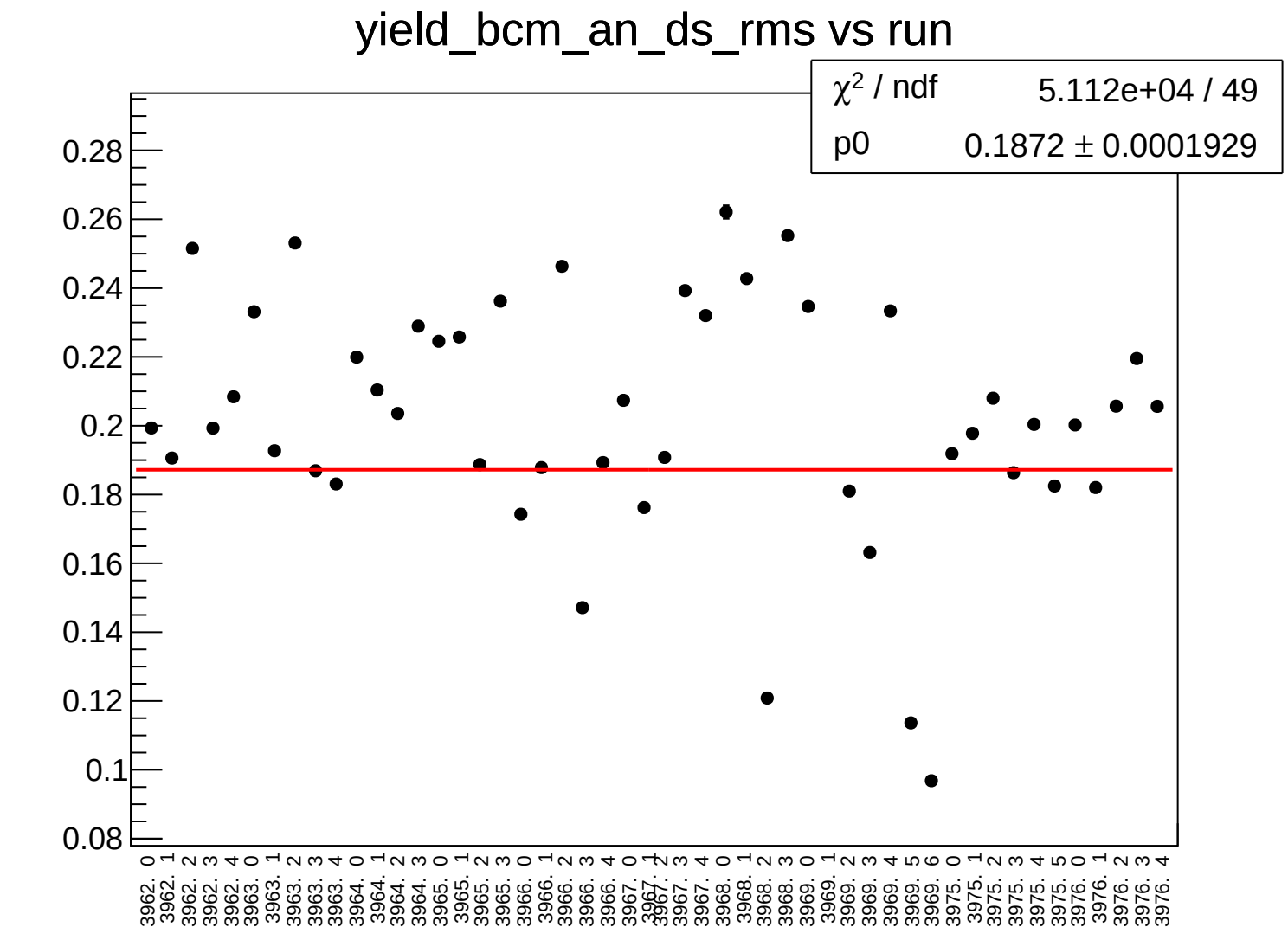
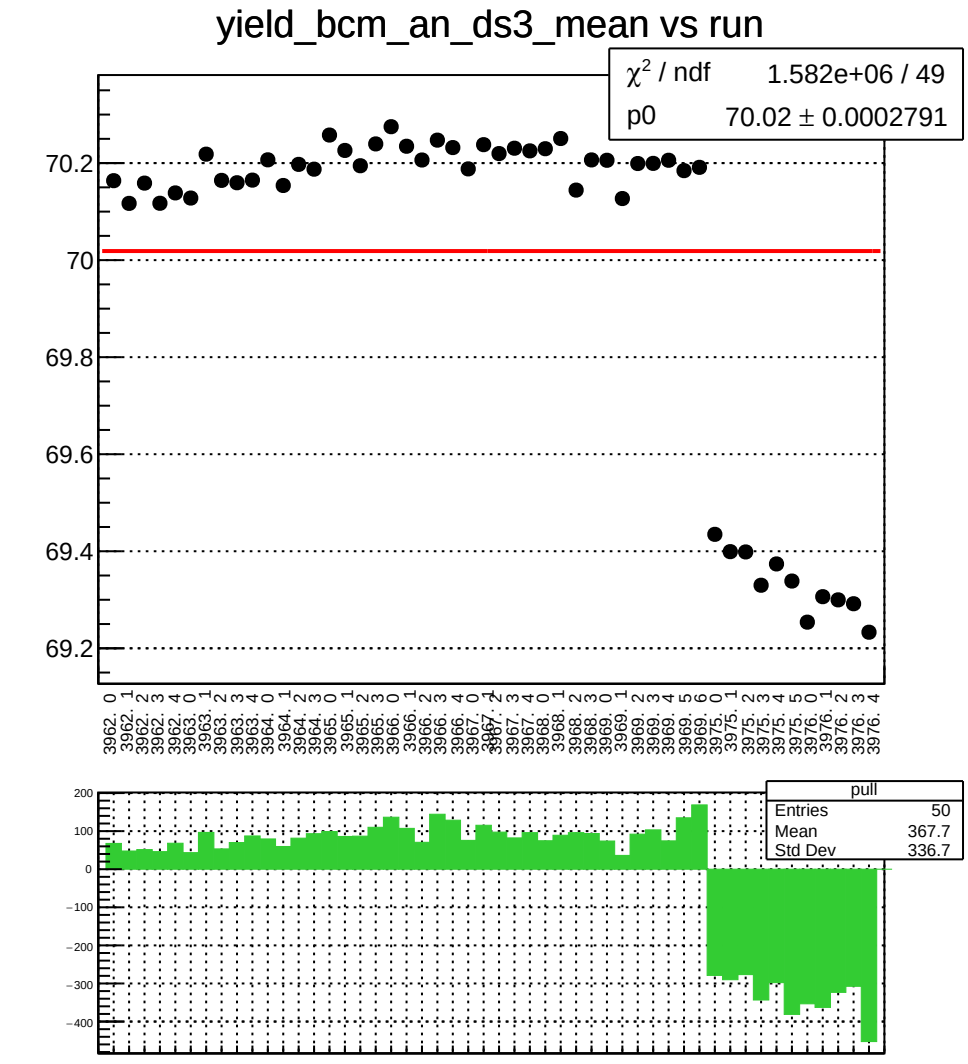
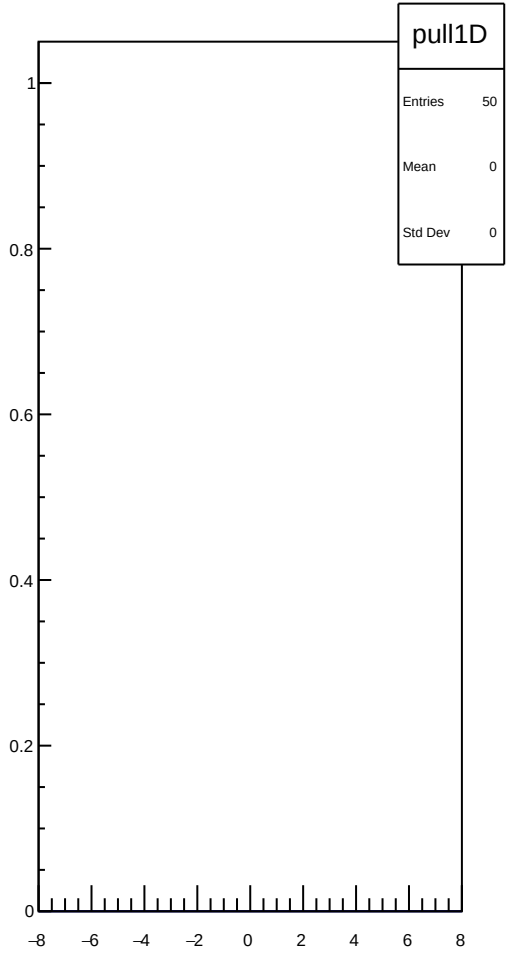
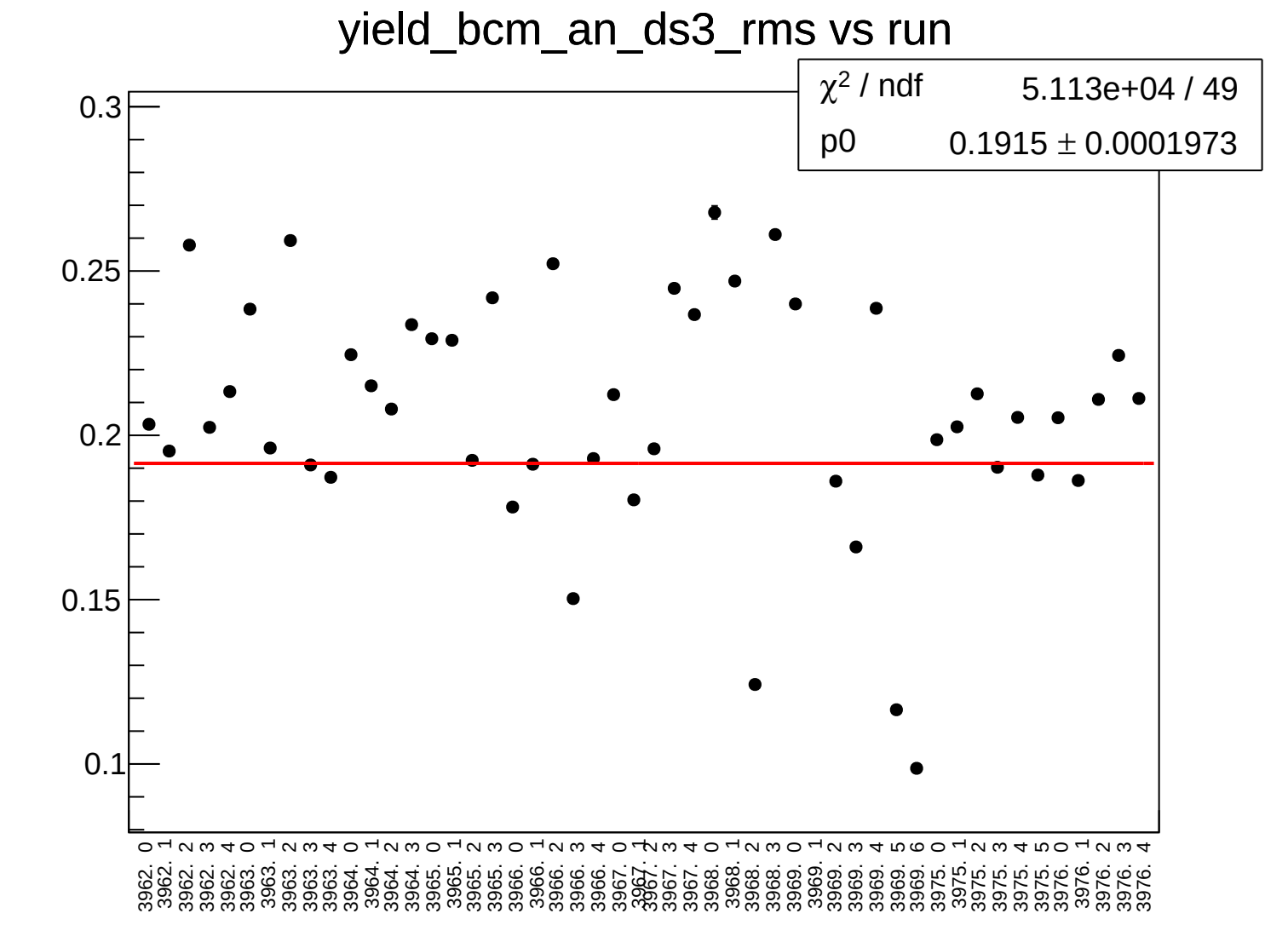

yield_bcm_an_ds_mean vs run
χ² / ndf 1.608e+06 / 49
p0 69.46 ± 0.0002729
69.8
69.6
69.4
69.2
69
68.8
68.6
pull
Entries 50
Mean 396.7
Std Dev 365.7
200
100
0
−100
−200
−300
−400

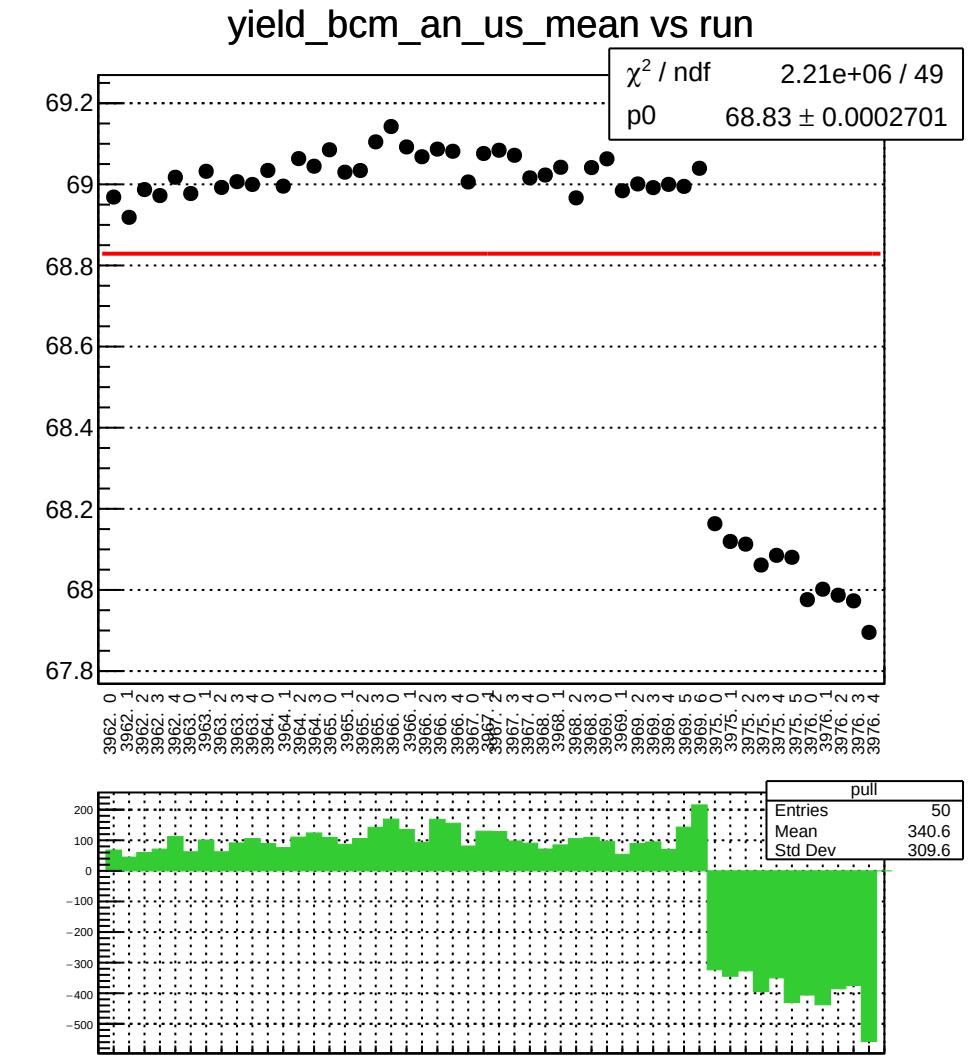

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

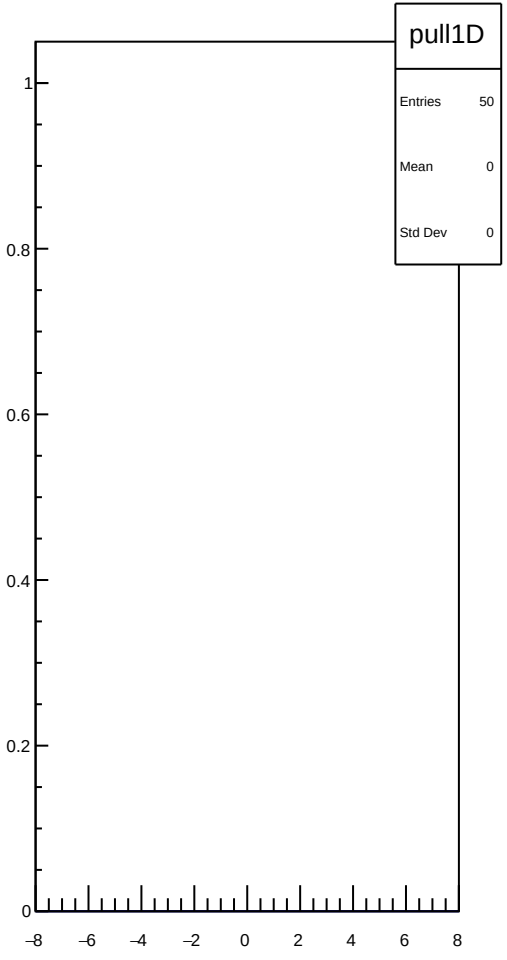

yield_bcm_an_ds_rms vs run
χ² / ndf 5.112e+04 / 49
p0 0.1872 ± 0.0001929
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

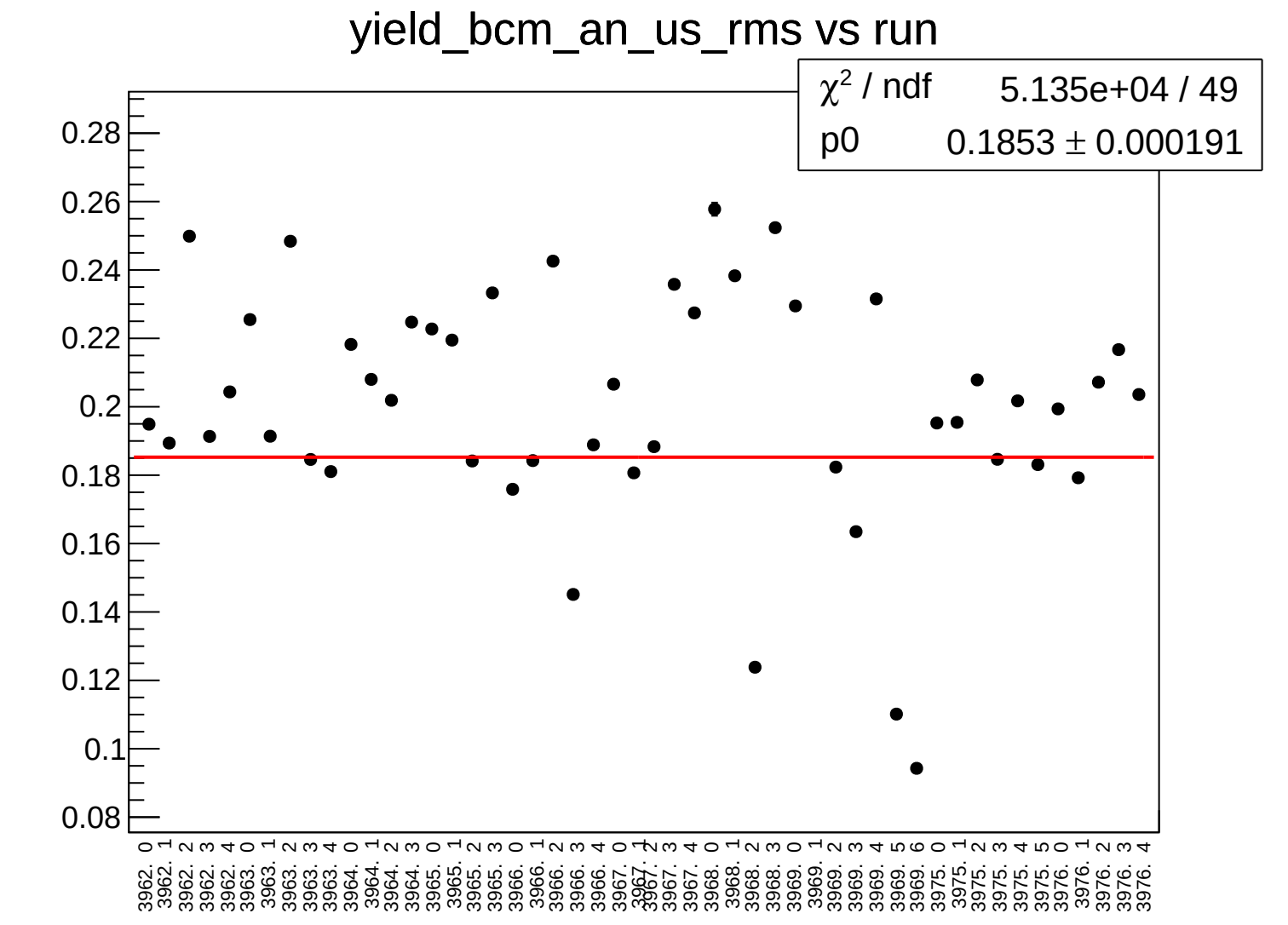

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.582e+06 / 49
p0 70.02 ± 0.0002791
70.2
70
69.8
69.6
69.4
69.2
pull
Entries 50
Mean 367.7
Std Dev 336.7
200
100
0
−100
−200
−300
−400

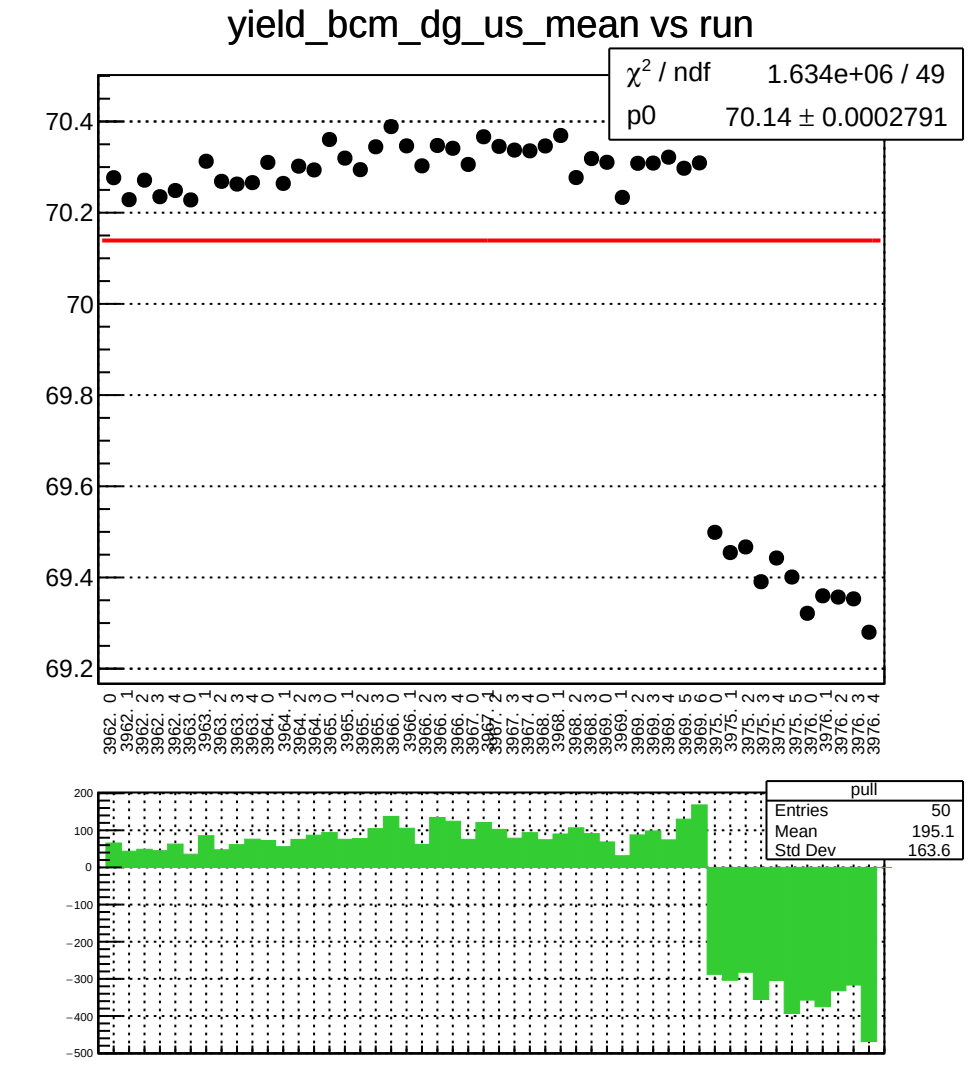

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

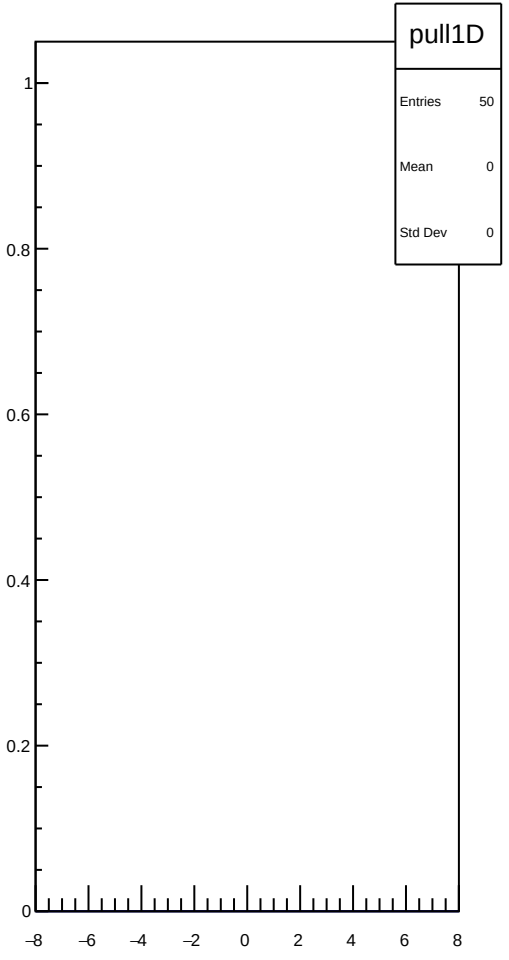

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.113e+04 / 49
p0 0.1915 ± 0.0001973
0.3
0.25
0.2
0.15
0.1
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

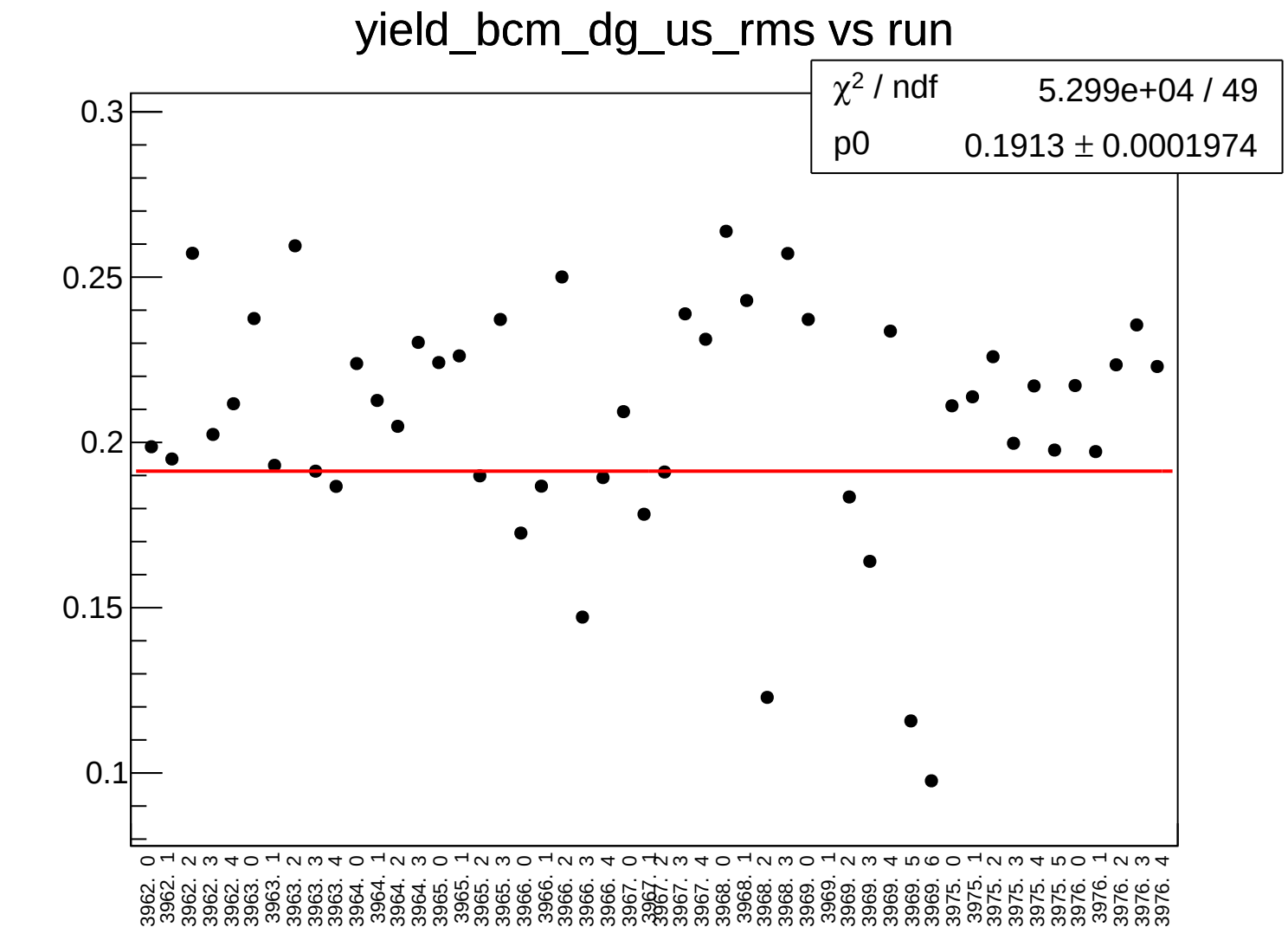

yield_bcm_an_us_mean vs run
χ² / ndf 2.21e+06 / 49
p0 68.83 ± 0.0002701
69.2
69
68.8
68.6
68.4
68.2
68
67.8
pull
Entries 50
Mean 340.6
Std Dev 309.6
200
100
0
−100
−200
−300
−400
−500

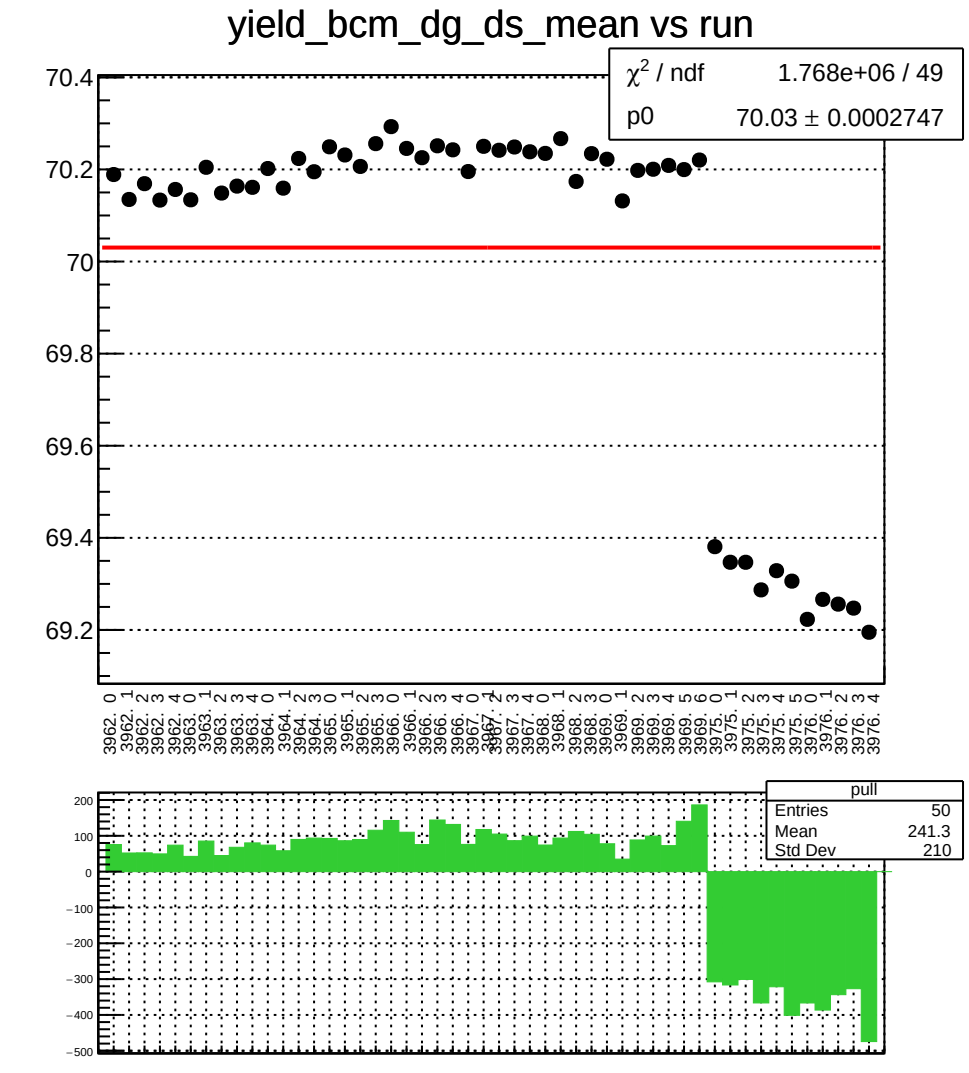

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

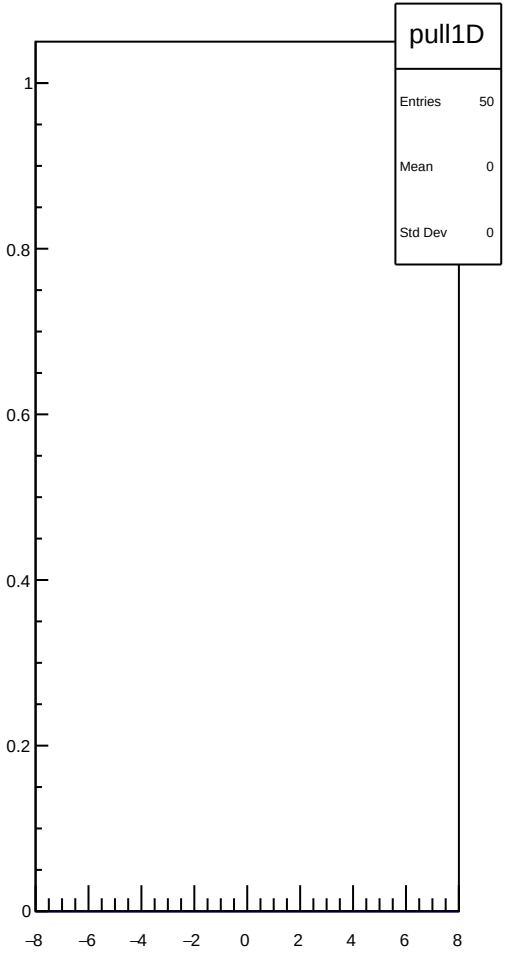

yield_bcm_an_us_rms vs run
χ² / ndf 5.135e+04 / 49
p0 0.1853 ± 0.000191
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

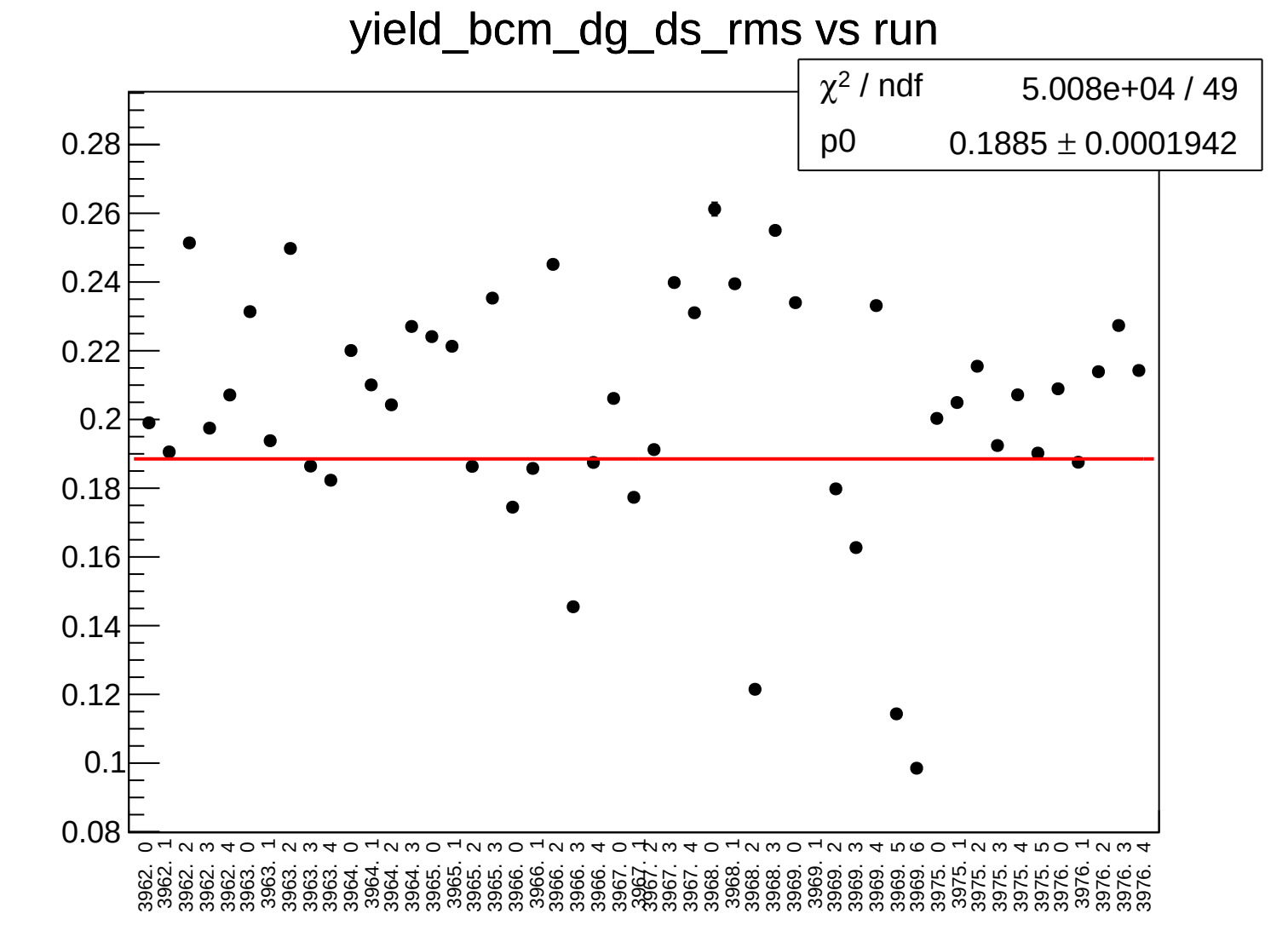

yield_bcm_dg_us_mean vs run
χ² / ndf 1.634e+06 / 49
p0 70.14 ± 0.0002791
70.4
70.2
70
69.8
69.6
69.4
69.2
pull
Entries 50
Mean 195.1
Std Dev 163.6
200
100
0
−100
−200
−300
−400
−500

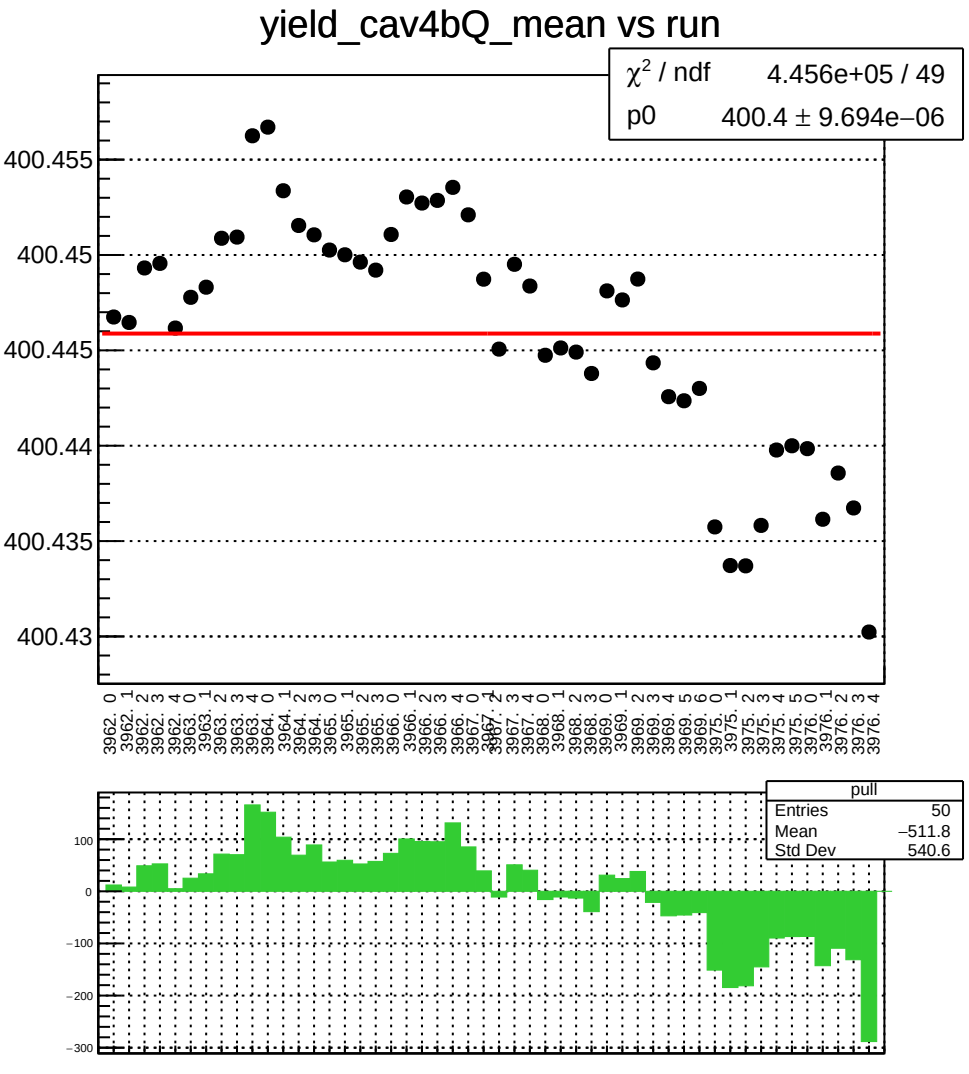

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

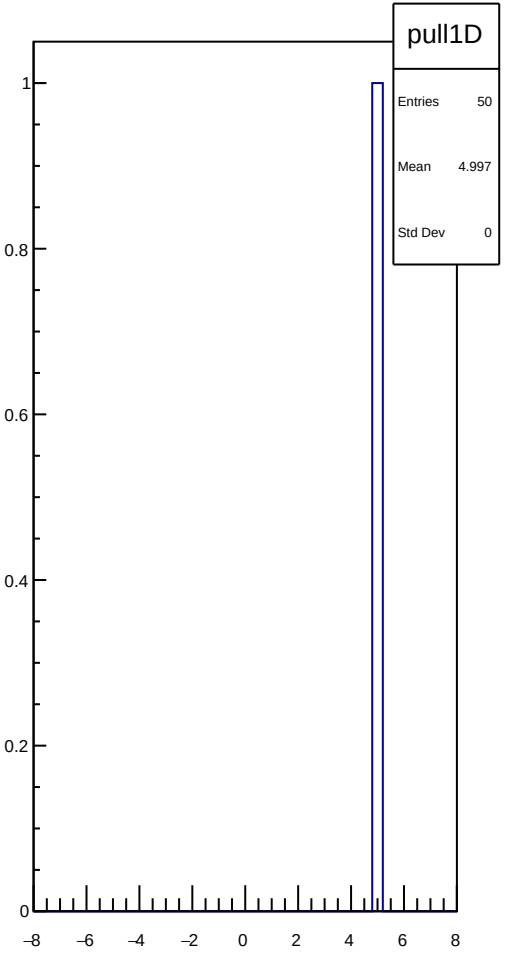

yield_bcm_dg_us_rms vs run
χ² / ndf 5.299e+04 / 49
p0 0.1913 ± 0.0001974
0.3
0.25
0.2
0.15
0.1
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

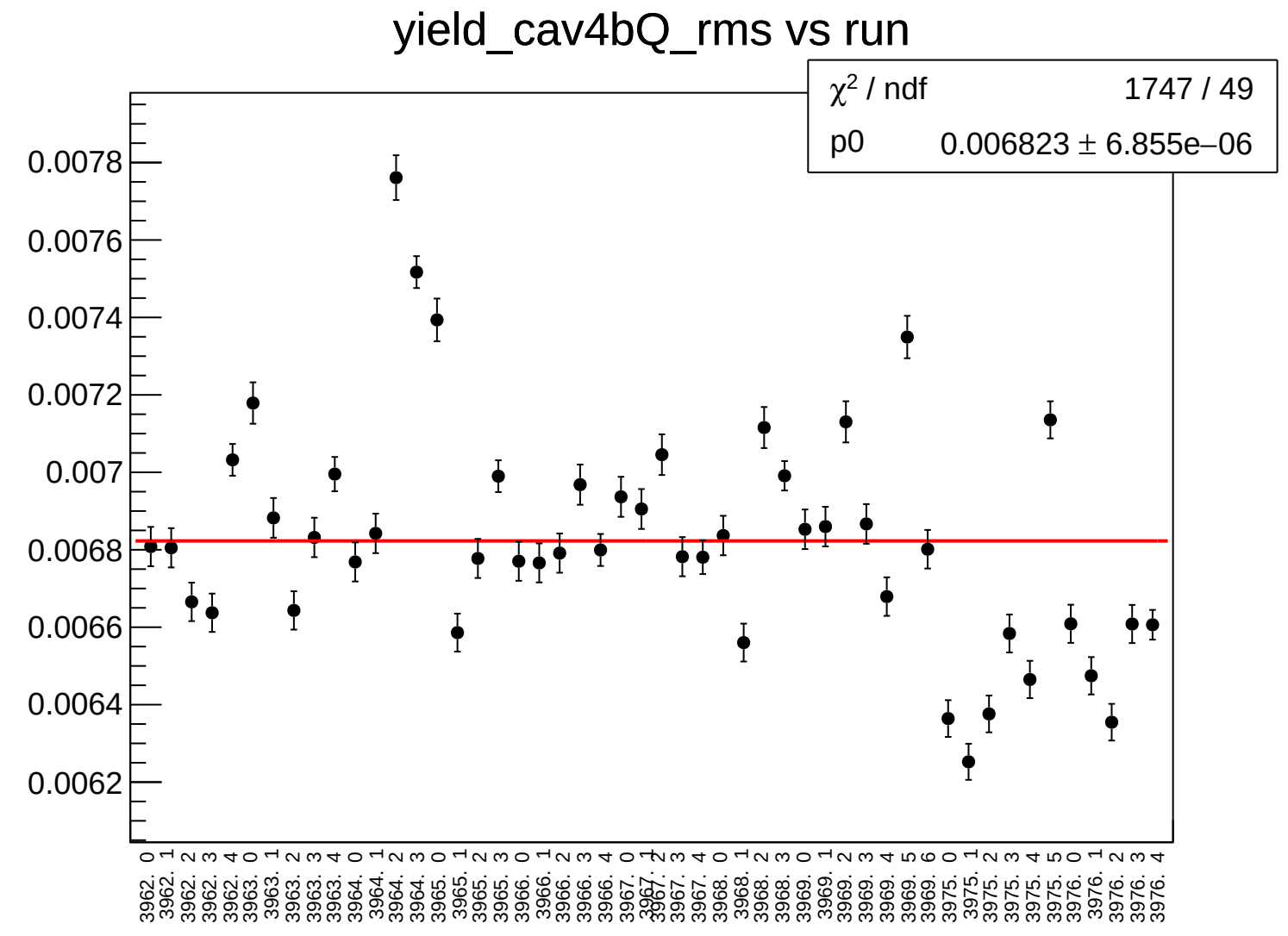

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.768e+06 / 49
p0 70.03 ± 0.0002747
70.4
70.2
70
69.8
69.6
69.4
69.2
pull
Entries 50
Mean 241.3
Std Dev 210
200
100
0
−100
−200
−300
−400
−500

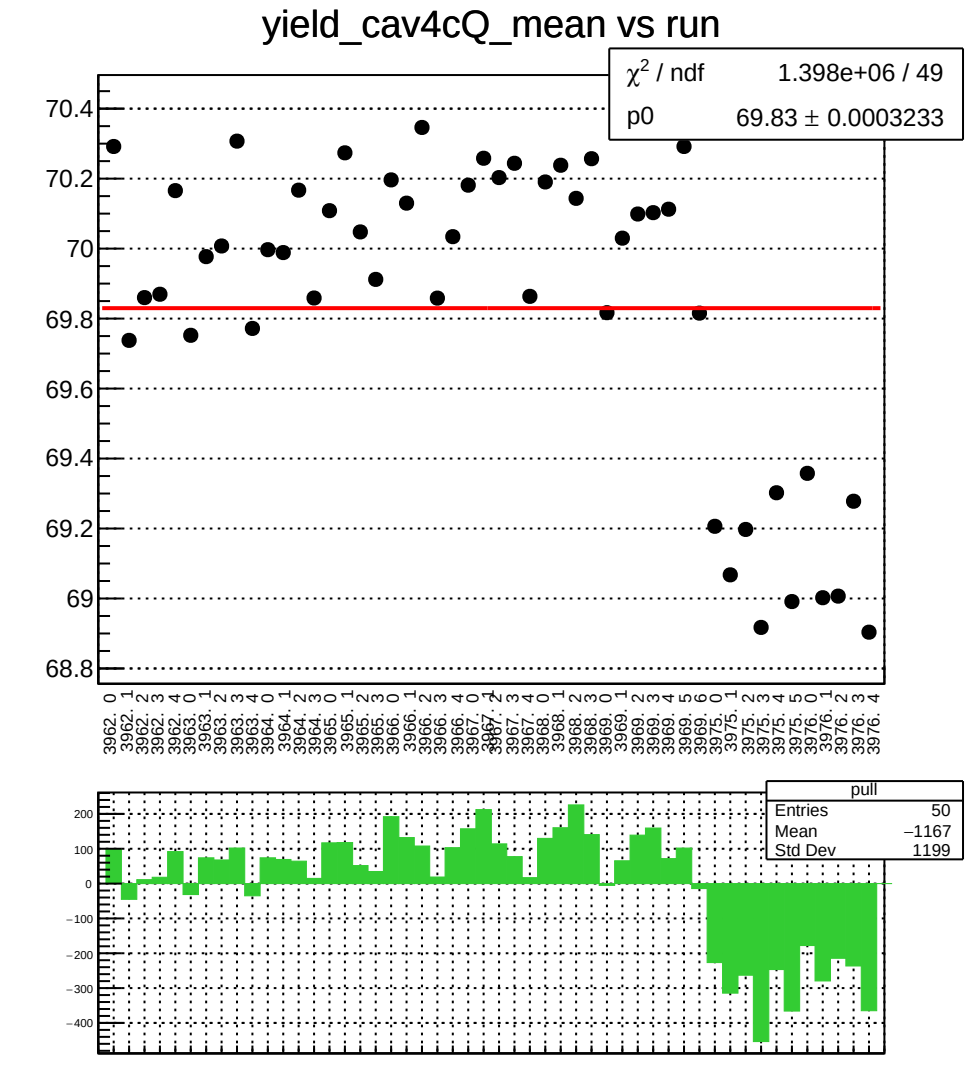

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

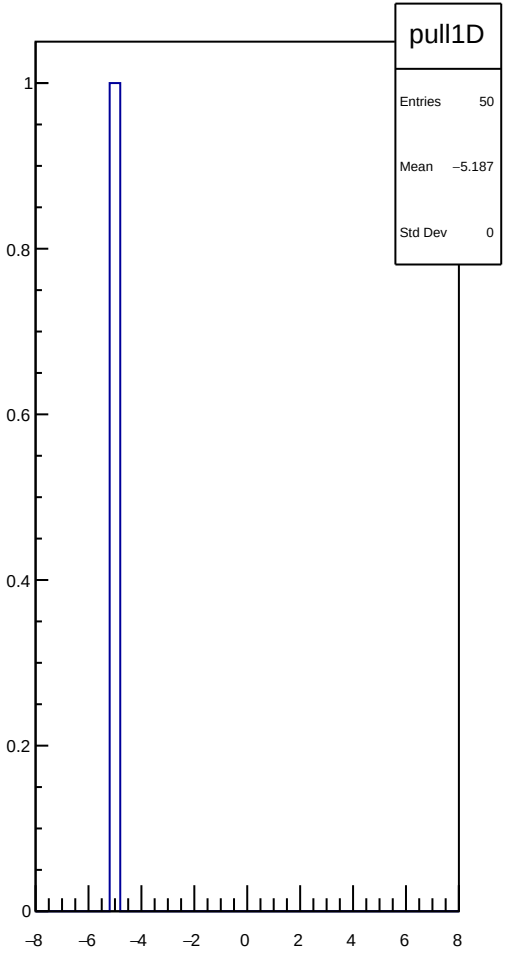

yield_bcm_dg_ds_rms vs run
χ² / ndf 5.008e+04 / 49
p0 0.1885 ± 0.0001942
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

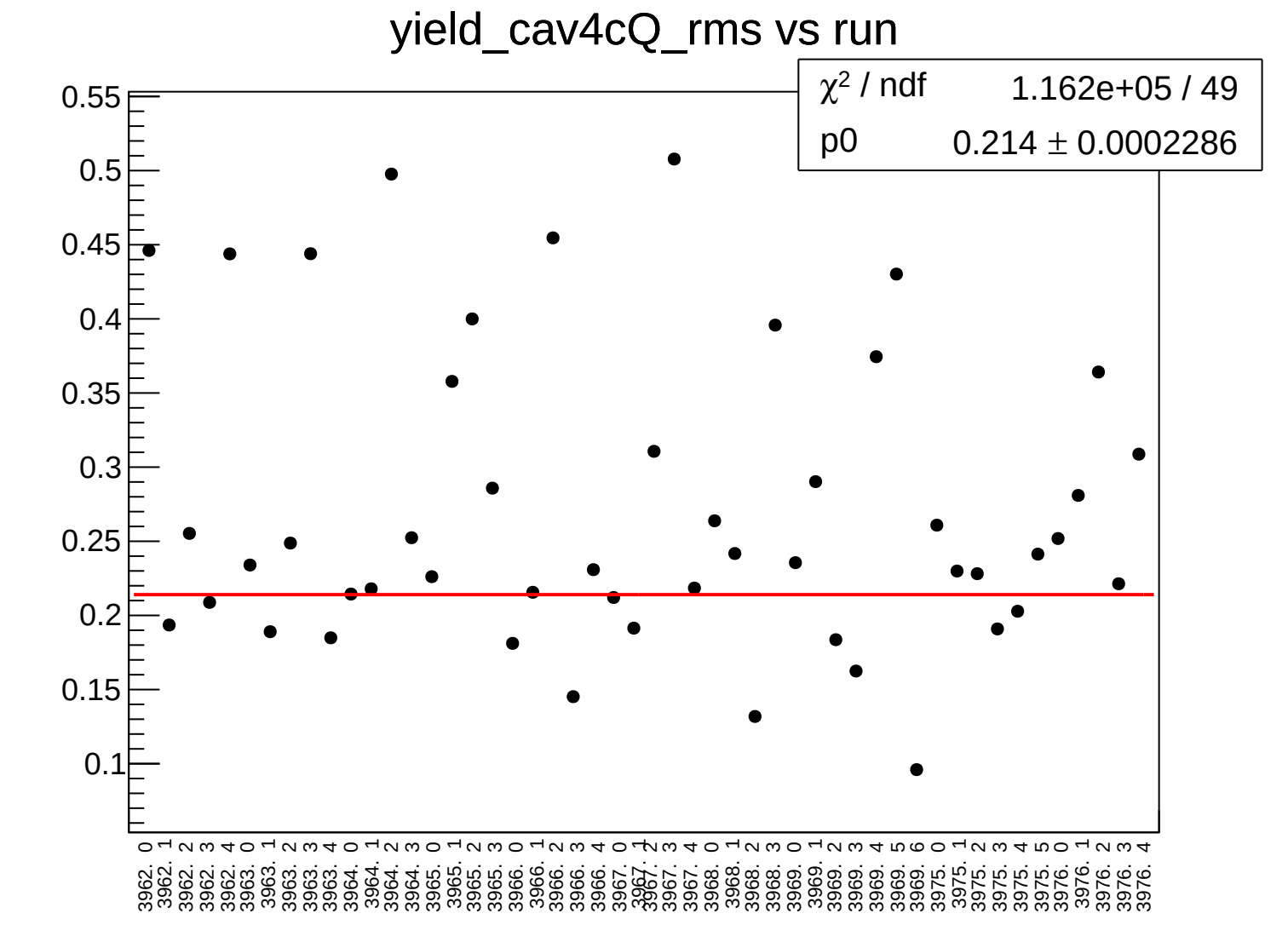

yield_cav4bQ_mean vs run
χ² / ndf 4.456e+05 / 49
p0 400.4 ± 9.694e−06
400.455
400.45
400.445
400.44
400.435
400.43
pull
Entries 50
Mean −511.8
Std Dev 540.6
100
0
−100
−200
−300


pull1D
Entries 50
Mean 4.997
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4bQ_rms vs run
χ² / ndf 1747 / 49
p0 0.006823 ± 6.855e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


yield_cav4cQ_mean vs run
χ² / ndf 1.398e+06 / 49
p0 69.83 ± 0.0003233
70.4
70.2
70
69.8
69.6
69.4
69.2
69
68.8
pull
Entries 50
Mean −1167
Std Dev 1199
200
100
0
−100
−200
−300
−400


pull1D
Entries 50
Mean −5.187
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cQ_rms vs run
χ² / ndf 1.162e+05 / 49
p0 0.214 ± 0.0002286
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
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3965. 2
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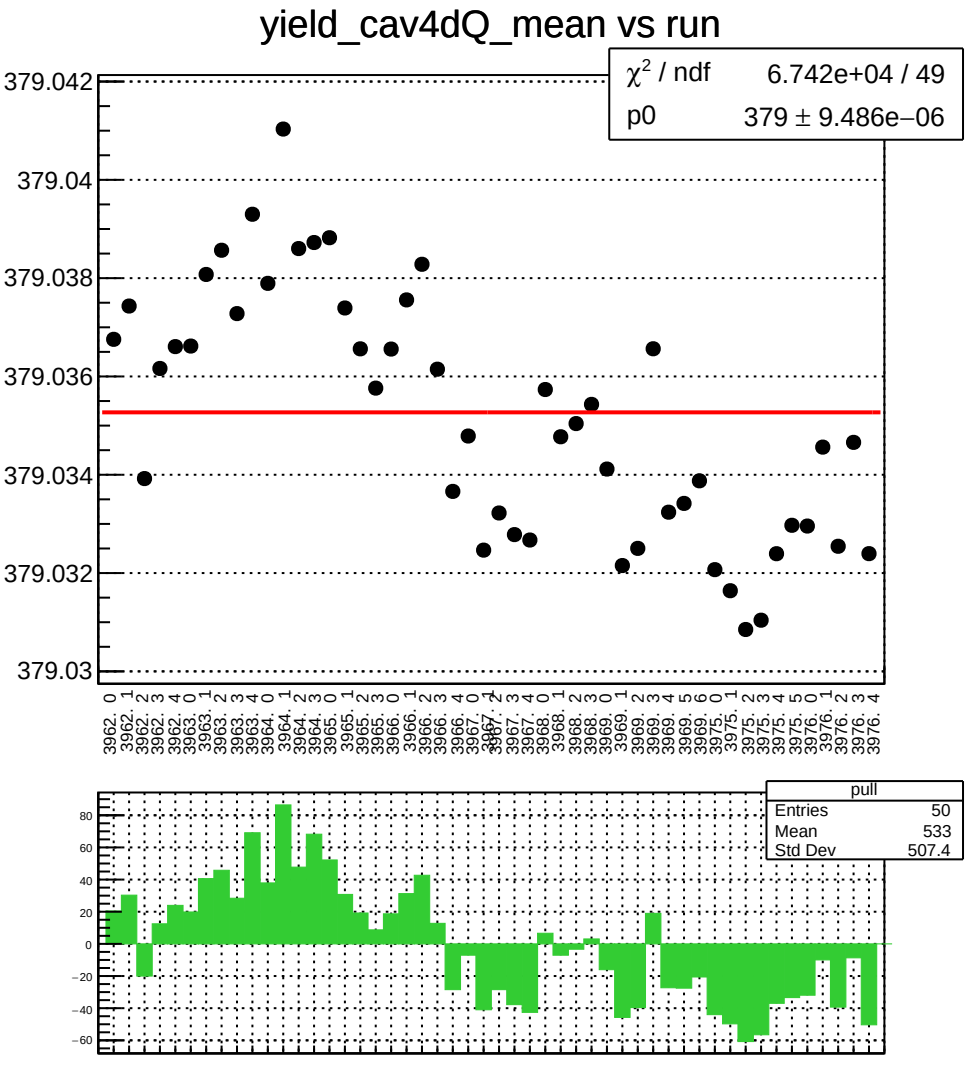
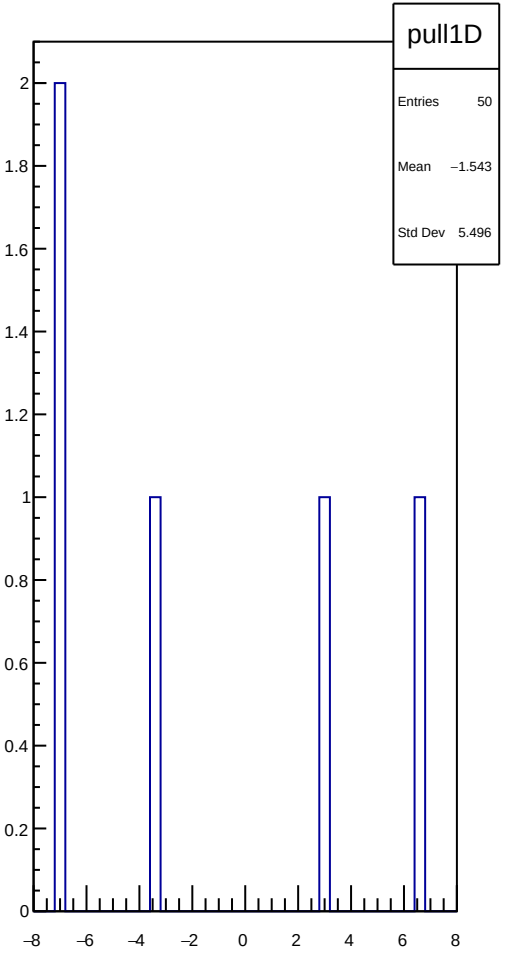
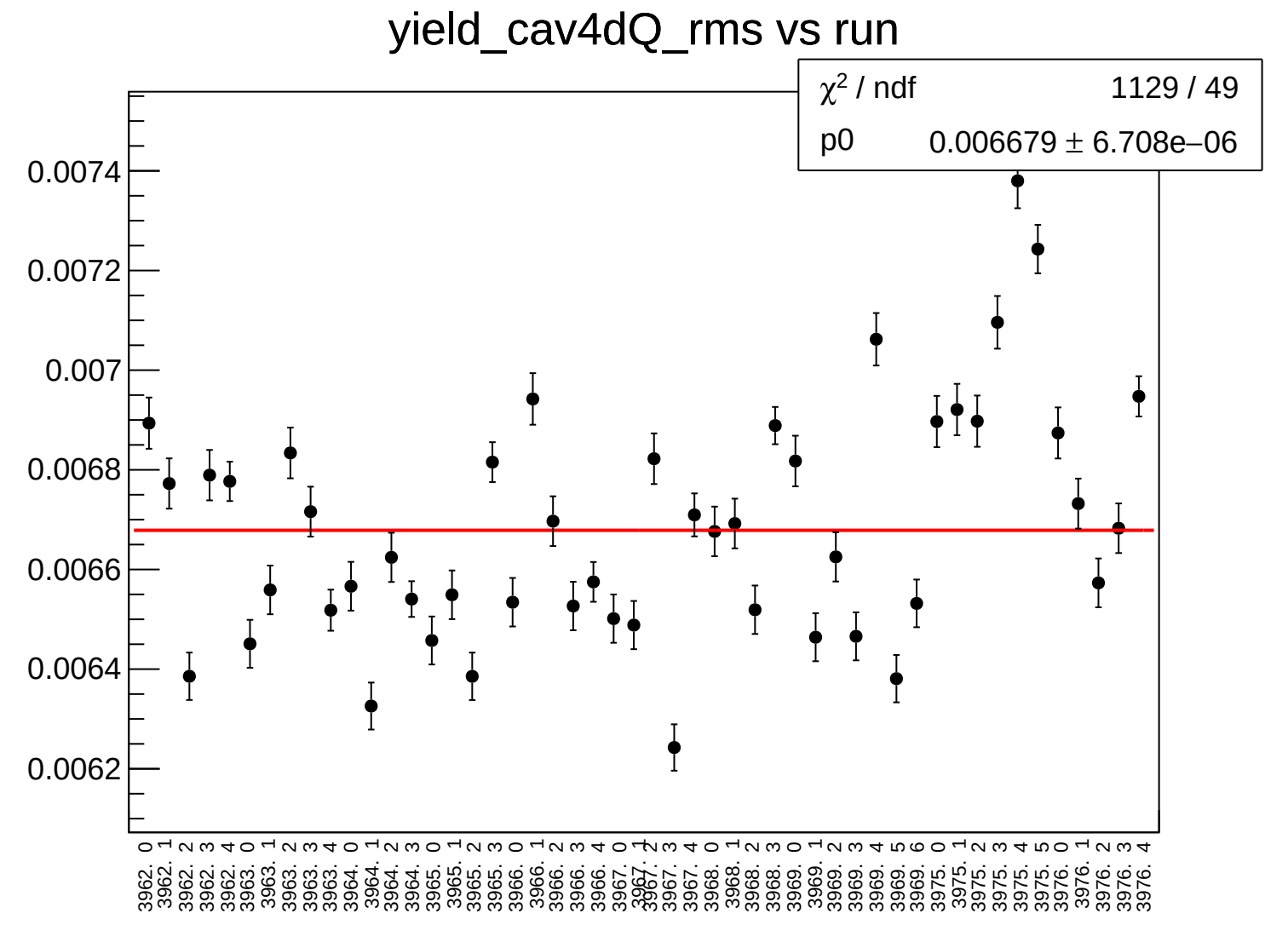
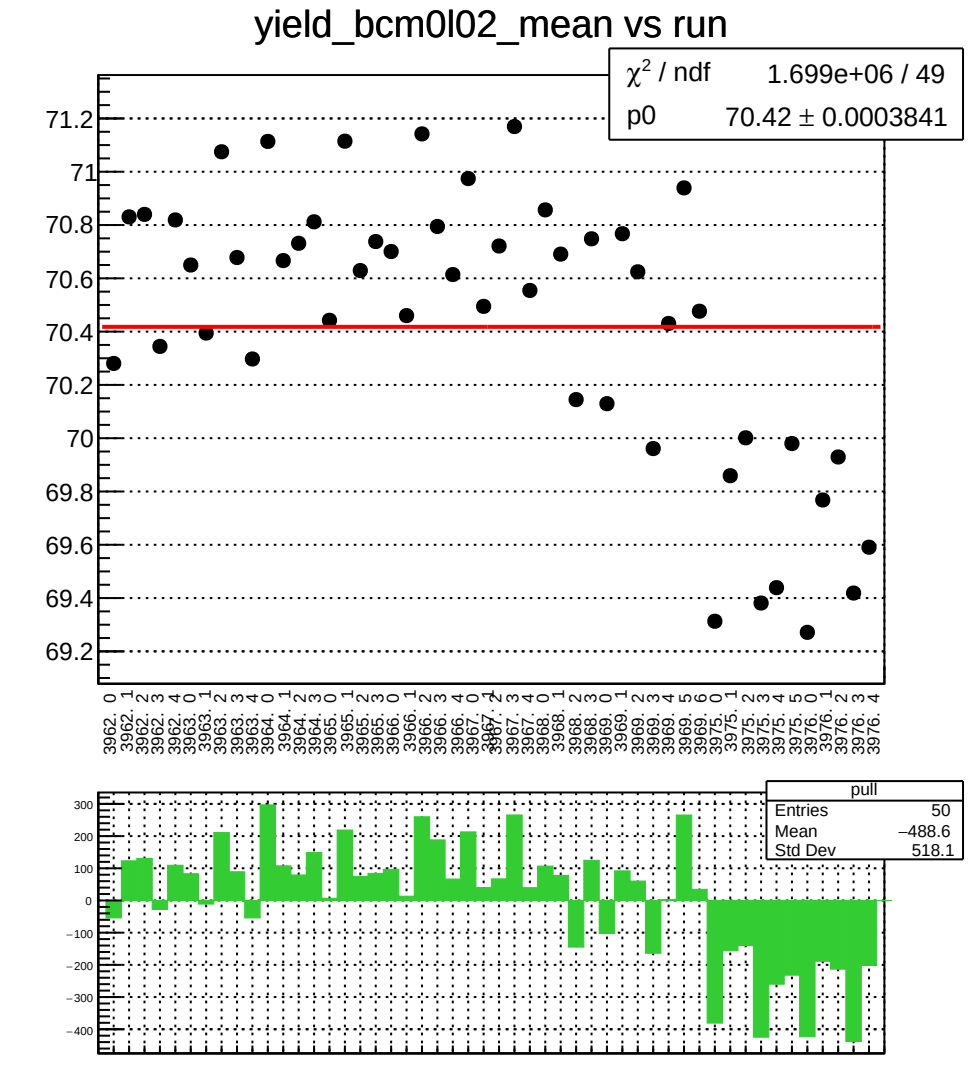
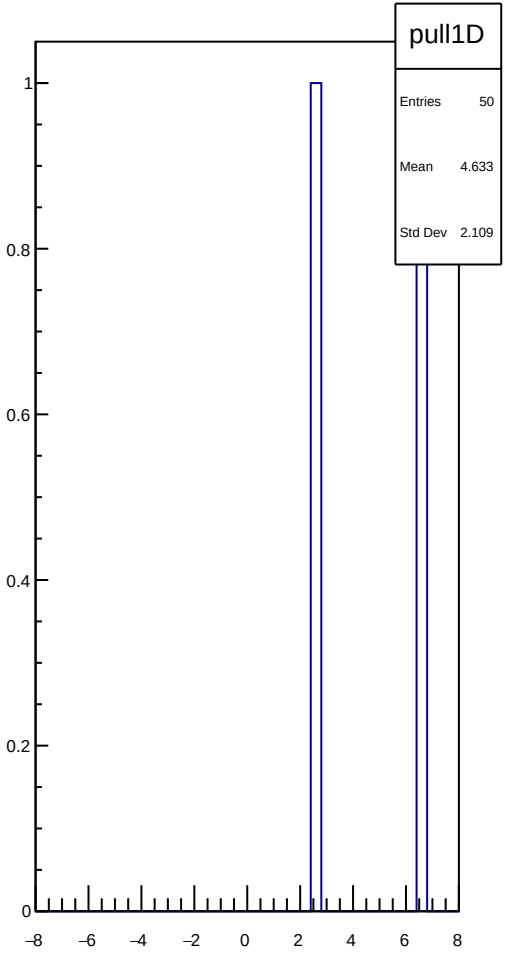
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

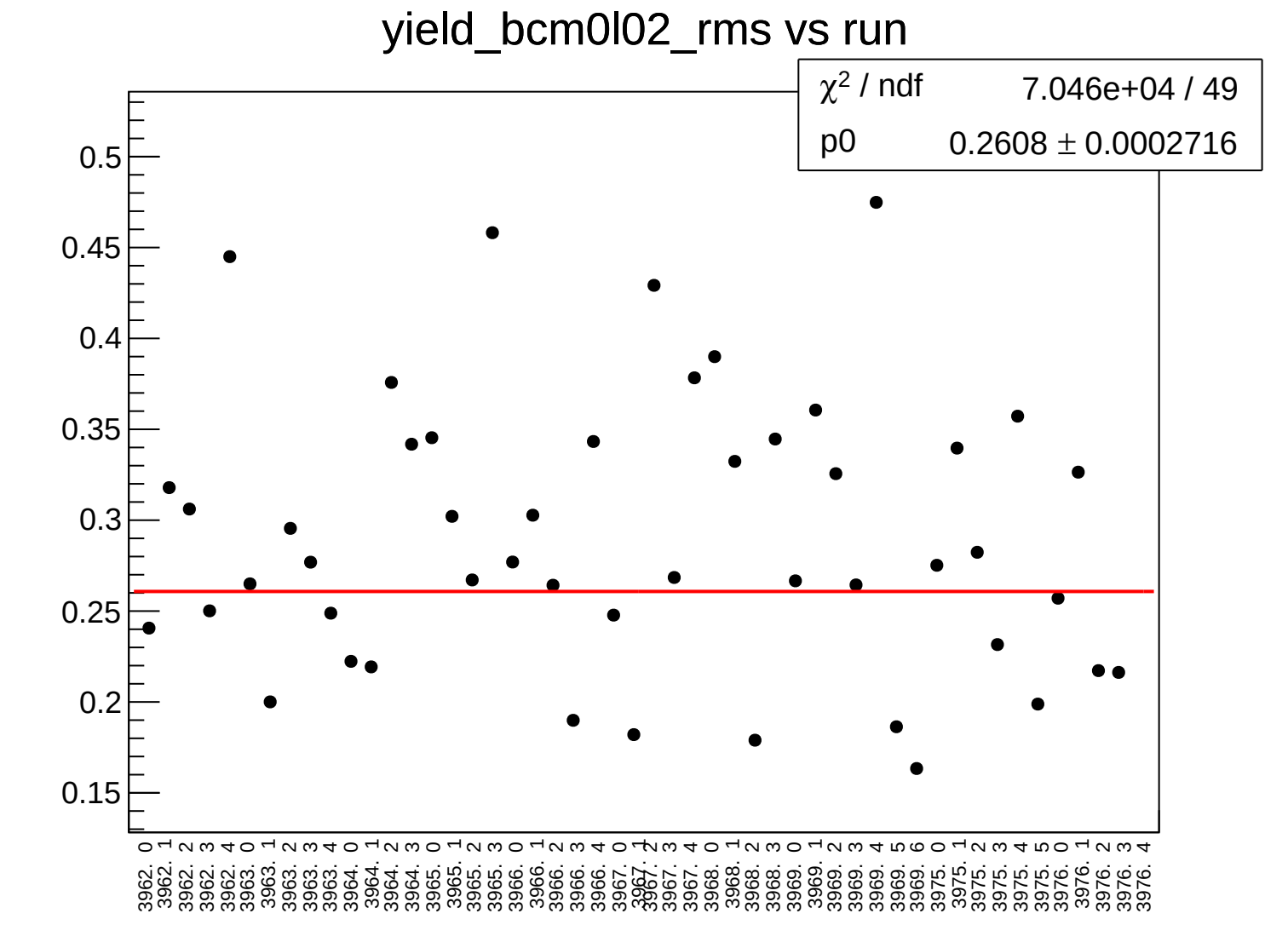

yield_cav4dQ_mean vs run
χ² / ndf 6.742e+04 / 49
p0 379 ± 9.486e−06
379.042
379.04
379.038
379.036
379.034
379.032
379.03
pull
Entries 50
Mean 533
Std Dev 507.4
80
60
40
20
0
−20
−40
−60

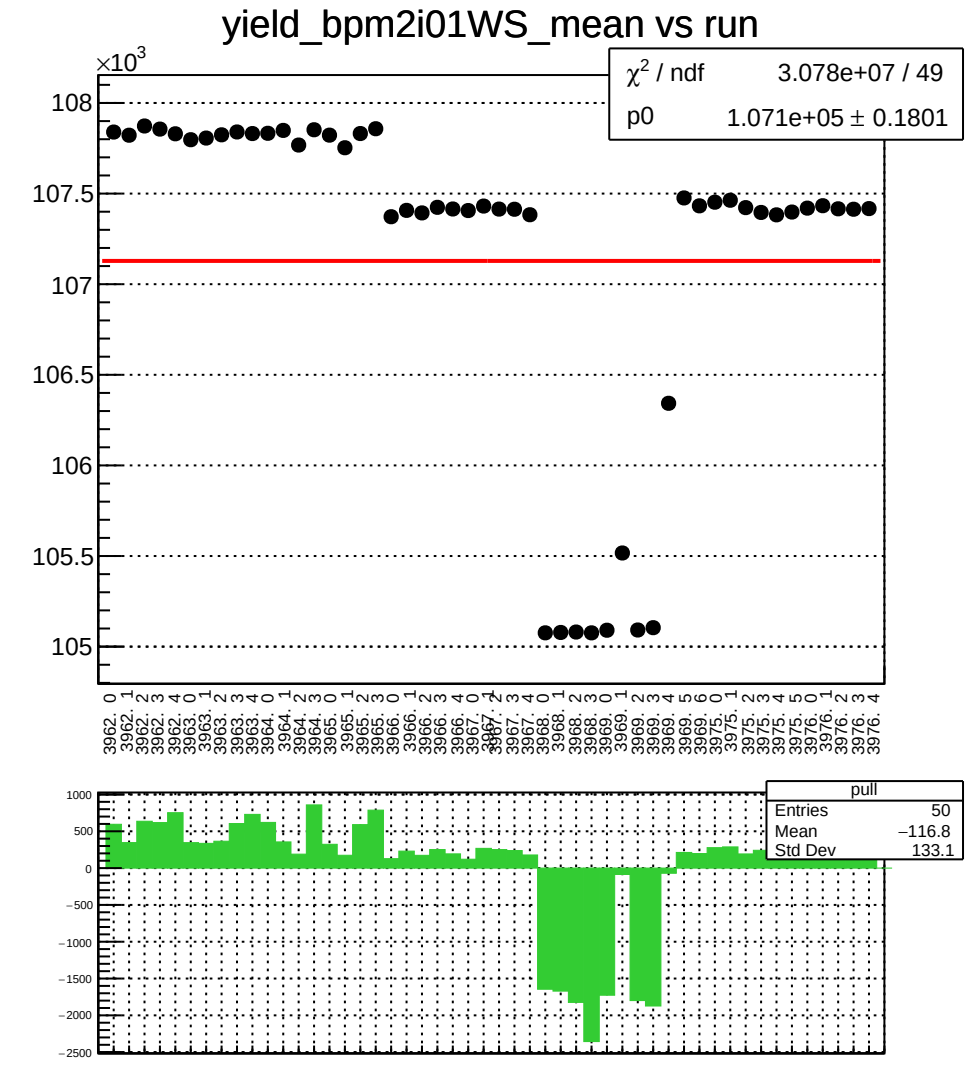

pull1D
Entries 50
Mean −1.543
Std Dev 5.496
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

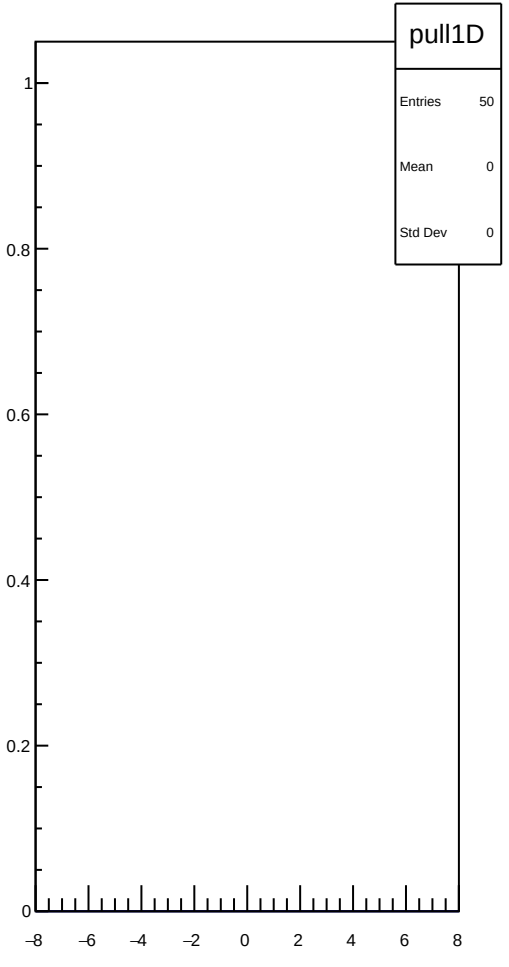

yield_cav4dQ_rms vs run
χ² / ndf 1129 / 49
p0 0.006679 ± 6.708e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

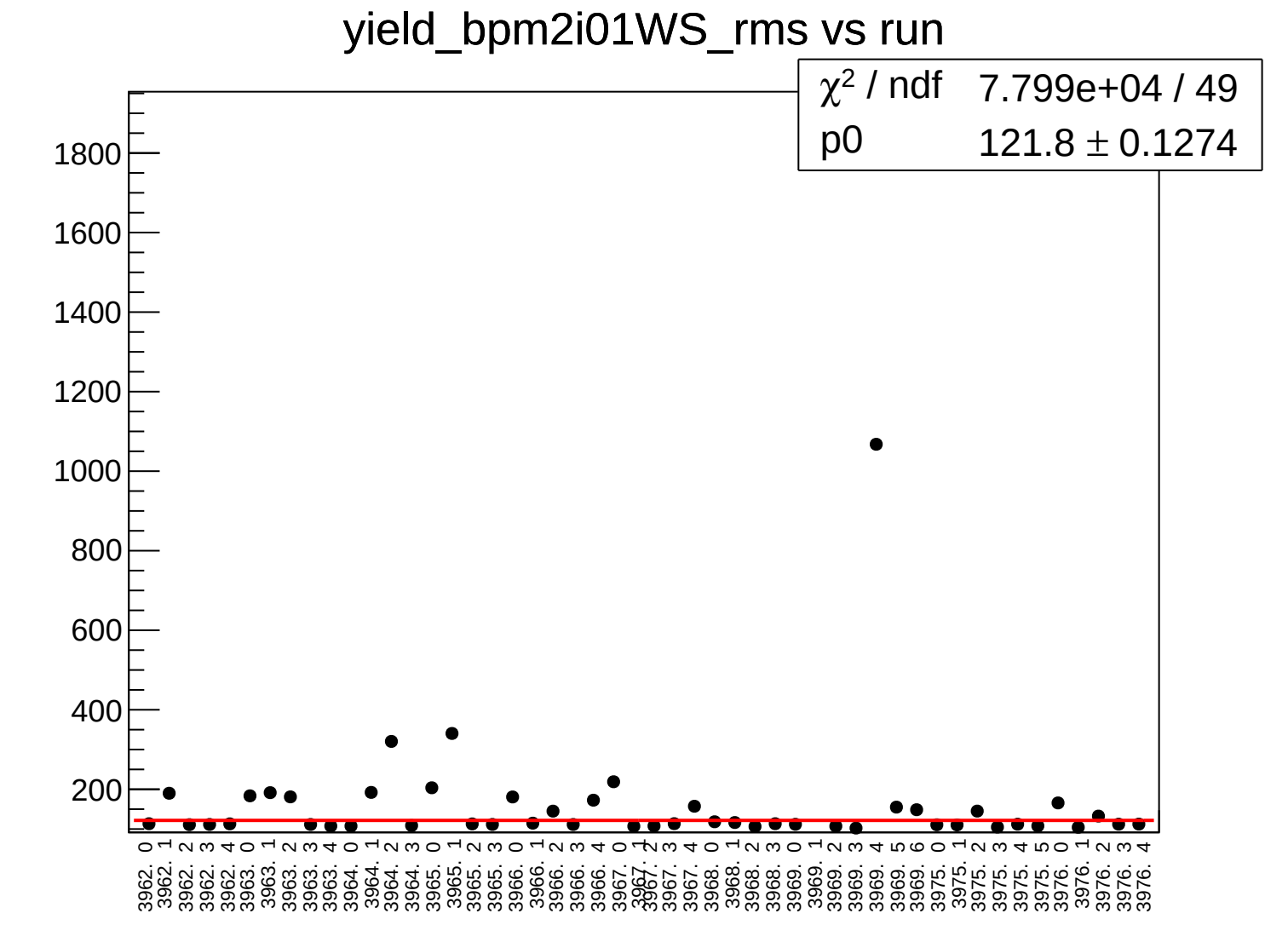

yield_bcm0l02_mean vs run
χ² / ndf 1.699e+06 / 49
p0 70.42 ± 0.0003841
71.2
71
70.8
70.6
70.4
70.2
70
69.8
69.6
69.4
69.2
pull
Entries 50
Mean −488.6
Std Dev 518.1
300
200
100
0
−100
−200
−300
−400

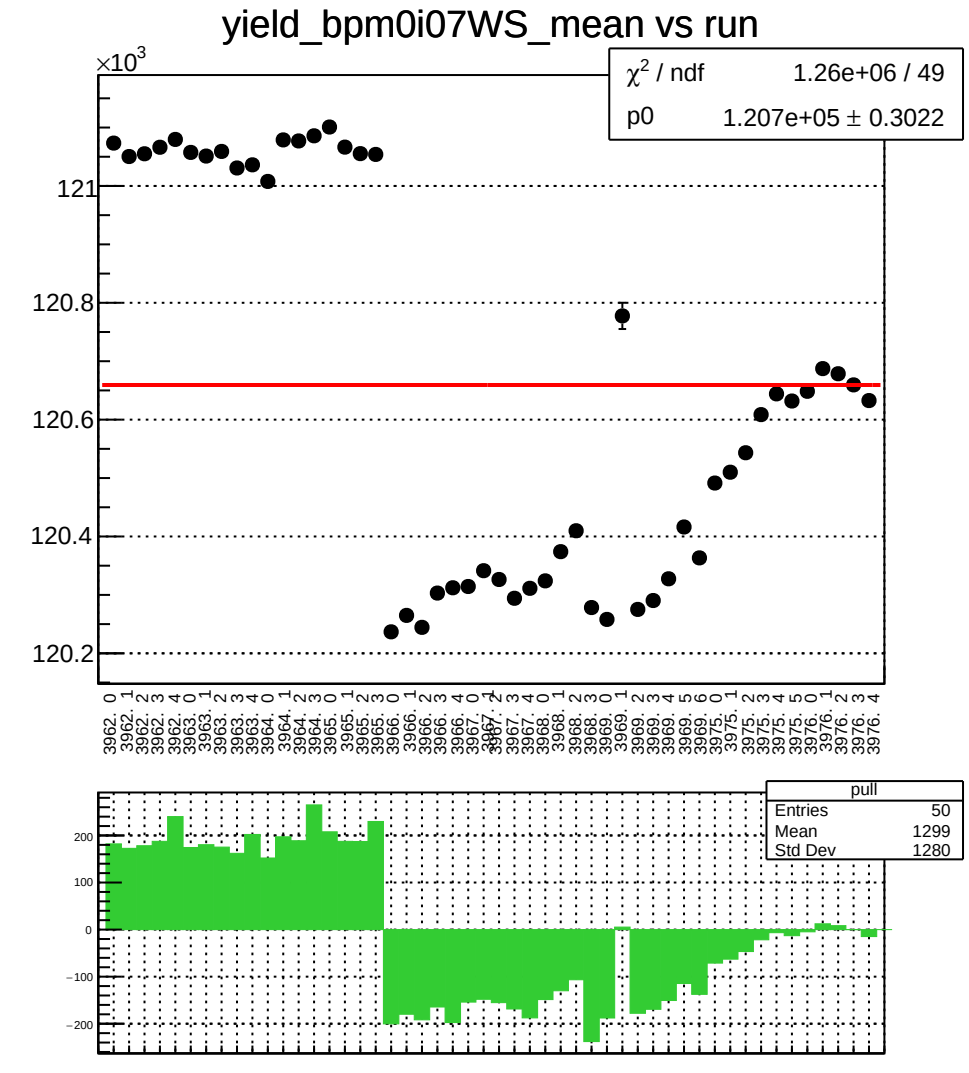

pull1D
Entries 50
Mean 4.633
Std Dev 2.109
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

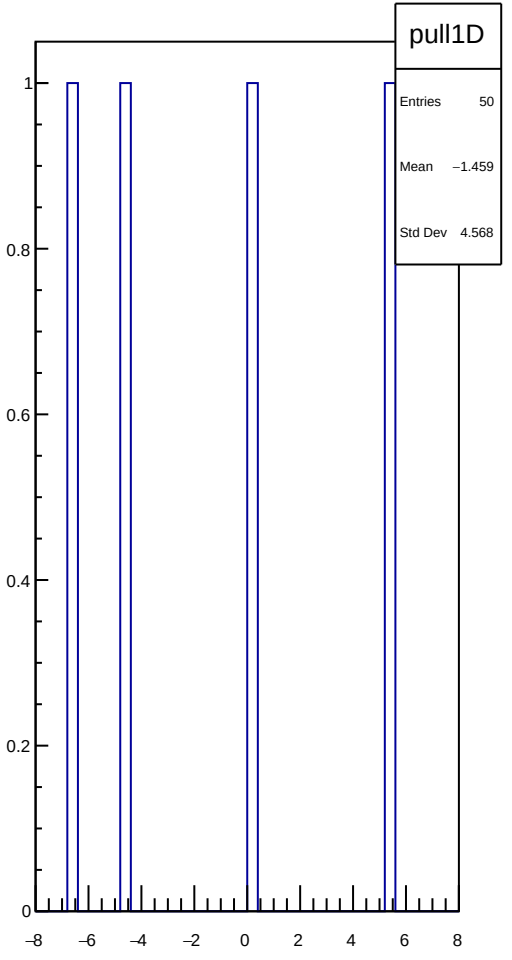

yield_bcm0l02_rms vs run
χ² / ndf 7.046e+04 / 49
p0 0.2608 ± 0.0002716
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

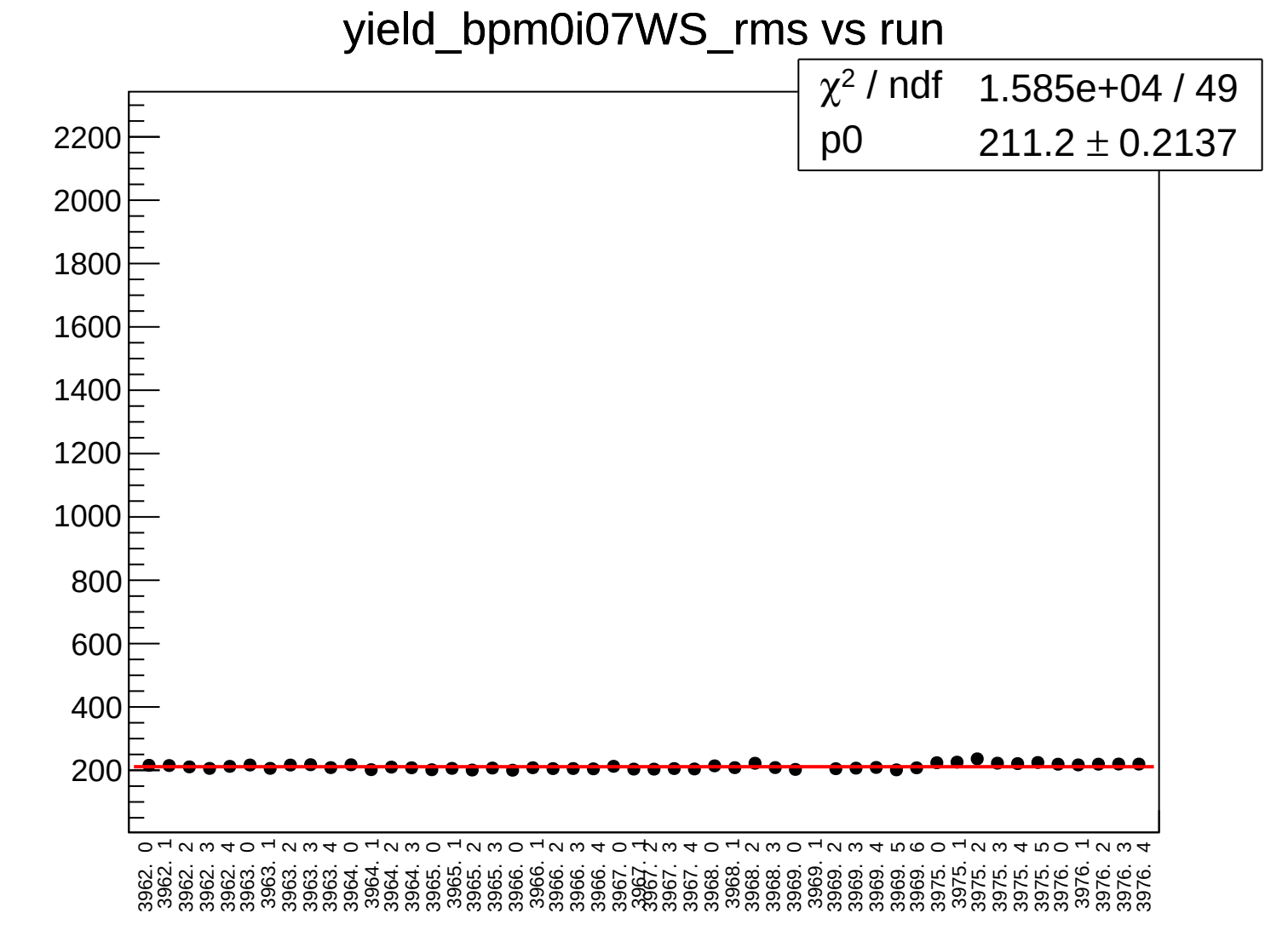

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.078e+07 / 49
p0 1.071e+05 ± 0.1801
108
107.5
107
106.5
106
105.5
105
pull
Entries 50
Mean −116.8
Std Dev 133.1
1000
500
0
−500
−1000
−1500
−2000
−2500

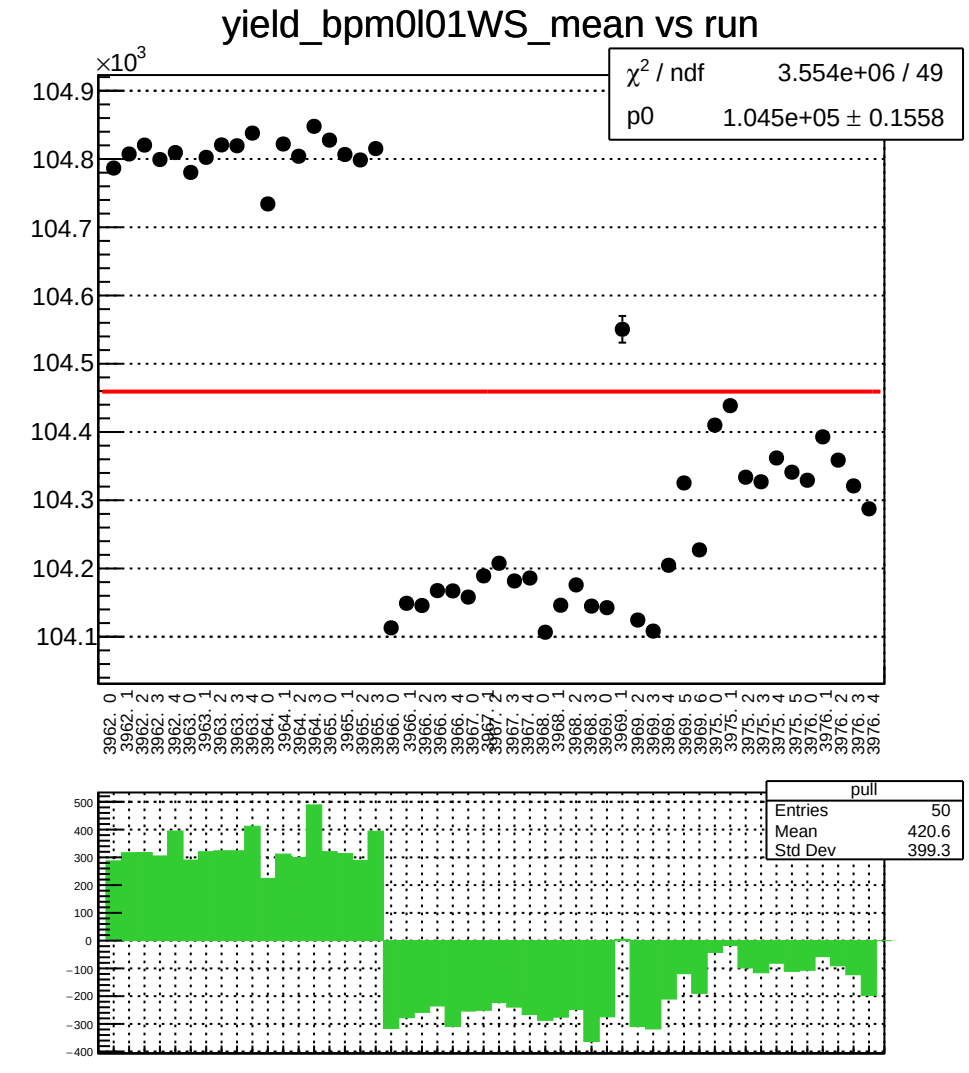

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

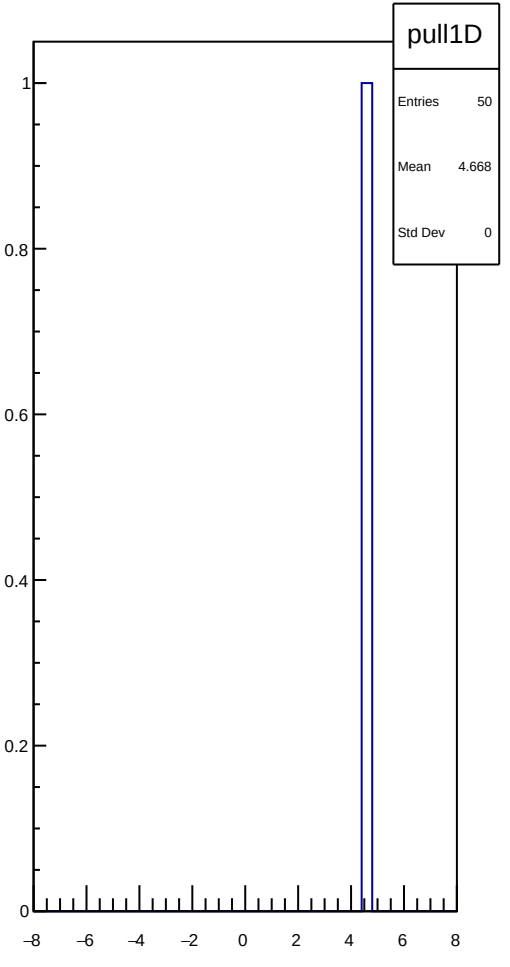

yield_bpm2i01WS_rms vs run
χ² / ndf 7.799e+04 / 49
p0 121.8 ± 0.1274
1800
1600
1400
1200
1000
800
600
400
200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

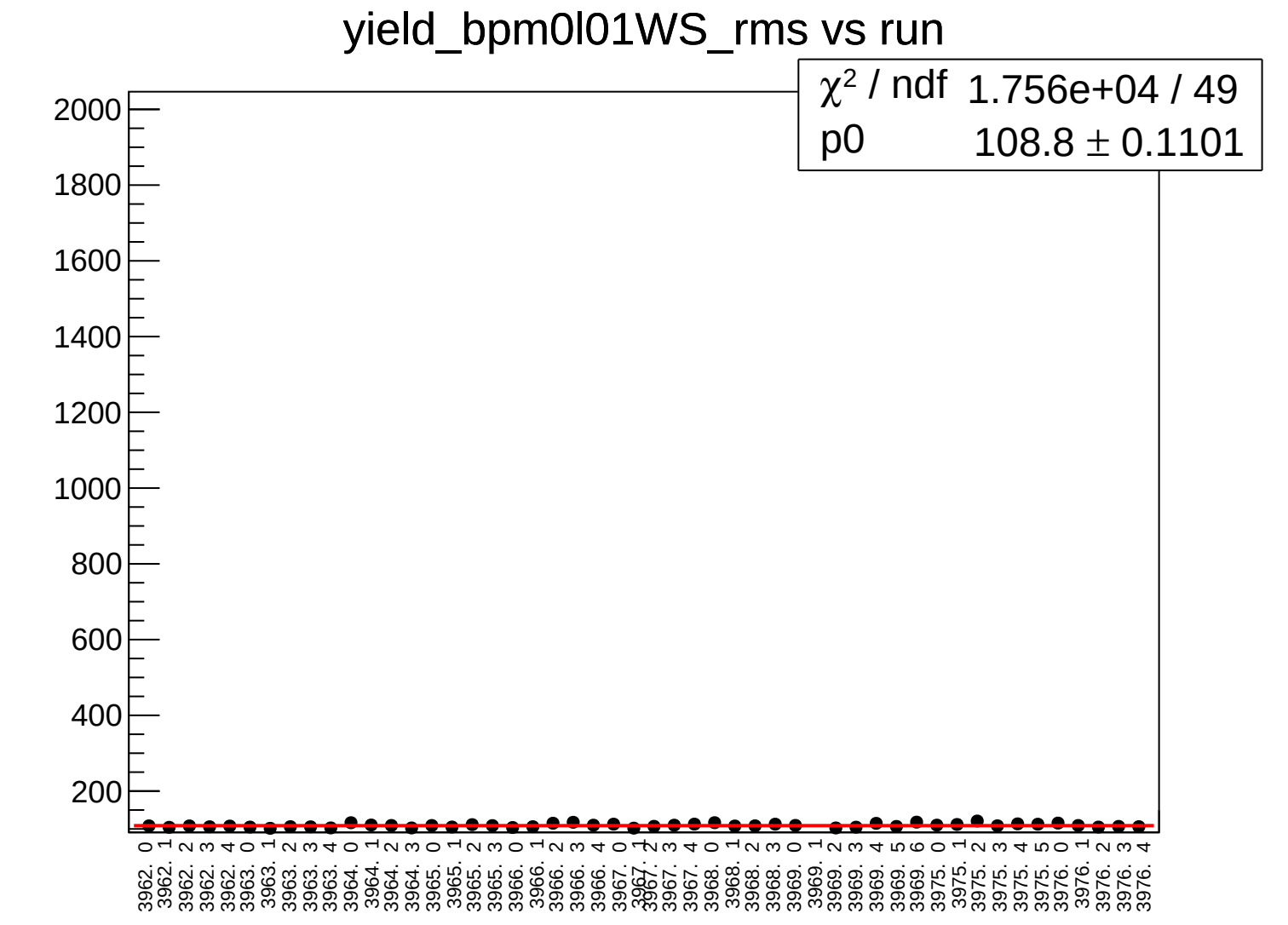

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.26e+06 / 49
p0 1.207e+05 ± 0.3022
121
120.8
120.6
120.4
120.2
pull
Entries 50
Mean 1299
Std Dev 1280
200
100
0
−100
−200

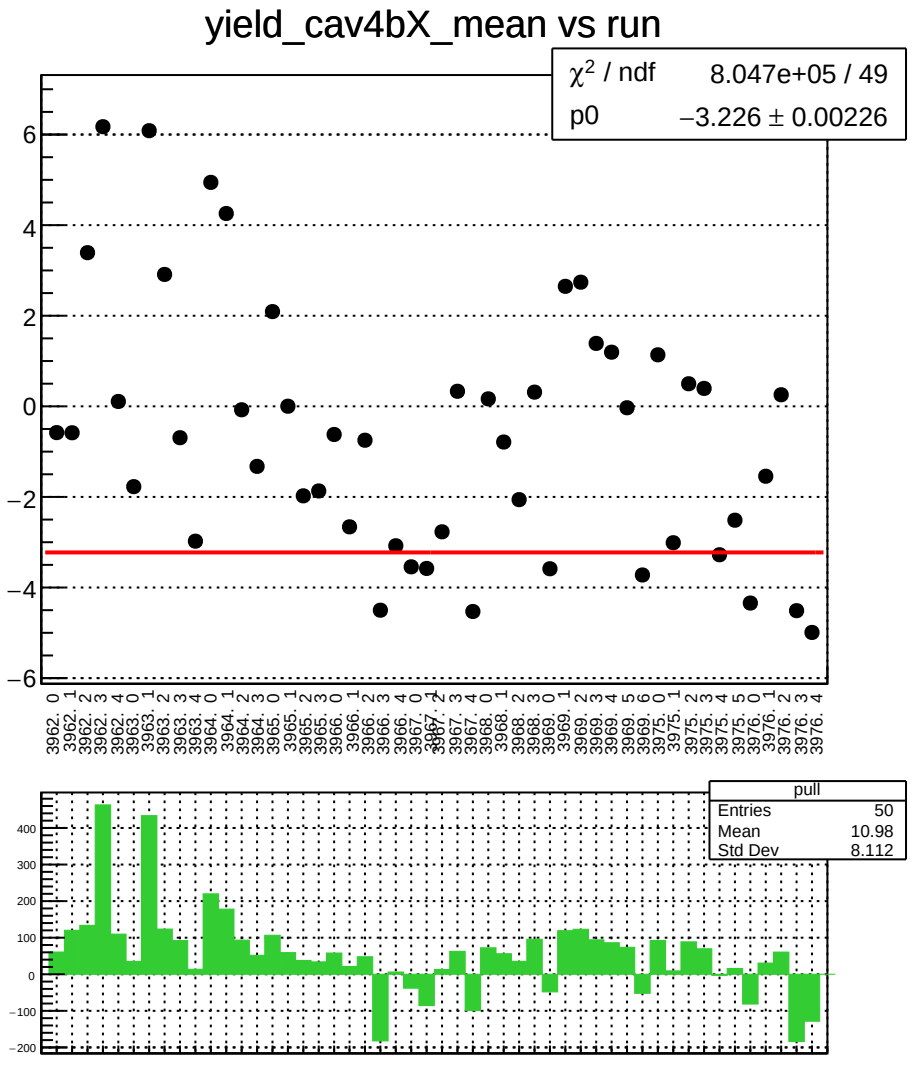

pull1D
Entries 50
Mean −1.459
Std Dev 4.568
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

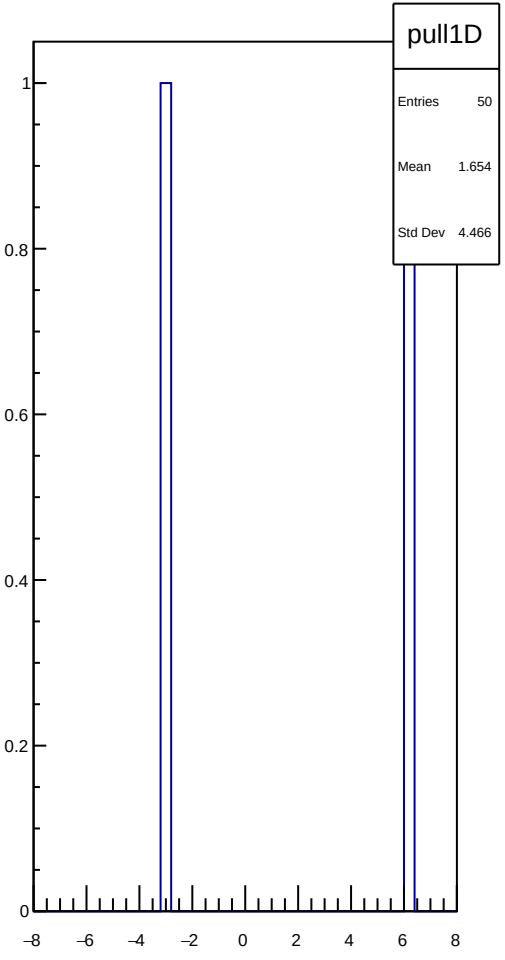

yield_bpm0i07WS_rms vs run
χ² / ndf 1.585e+04 / 49
p0 211.2 ± 0.2137
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

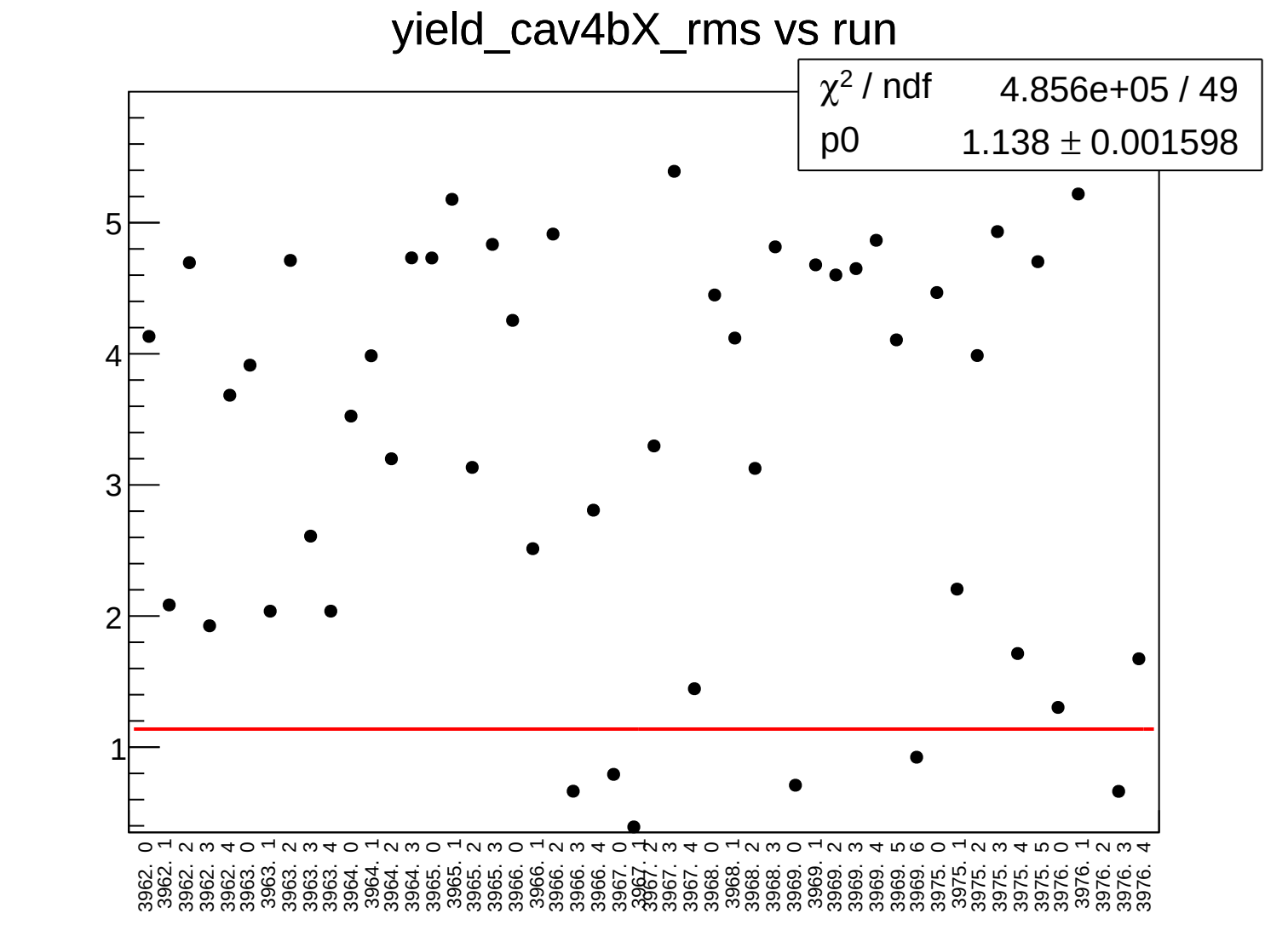

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 3.554e+06 / 49
p0 1.045e+05 ± 0.1558
104.9
104.8
104.7
104.6
104.5
104.4
104.3
104.2
104.1
pull
Entries 50
Mean 420.6
Std Dev 399.3
500
400
300
200
100
0
−100
−200
−300
−400

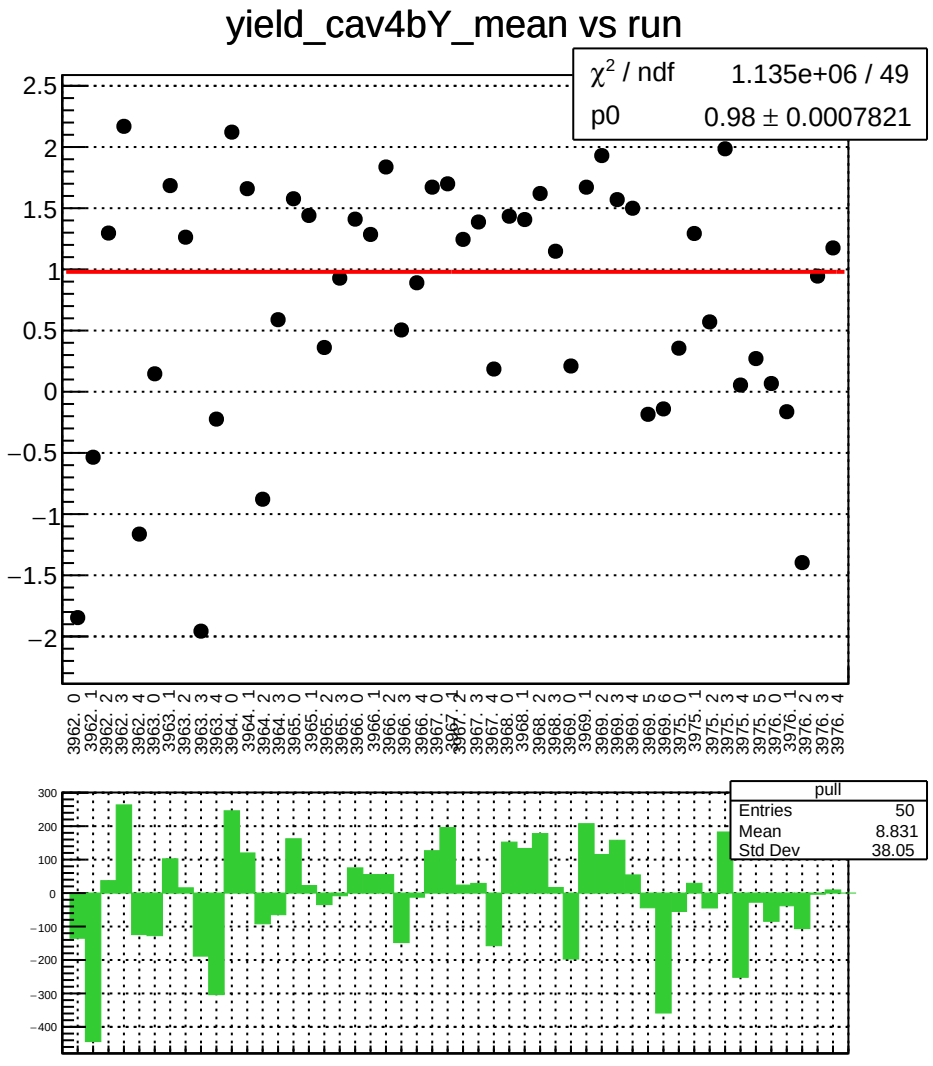

pull1D
Entries 50
Mean 4.668
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

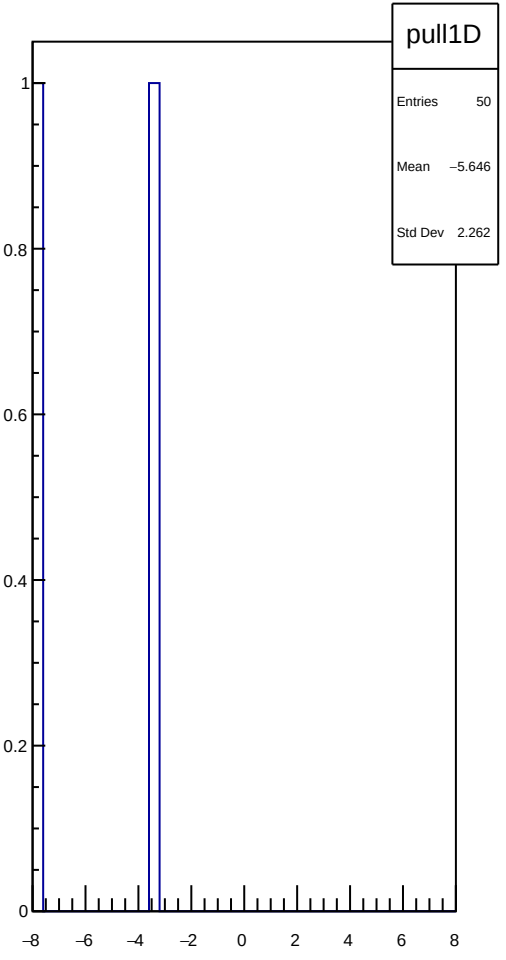

yield_bpm0l01WS_rms vs run
χ² / ndf 1.756e+04 / 49
p0 108.8 ± 0.1101
2000
1800
1600
1400
1200
1000
800
600
400
200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

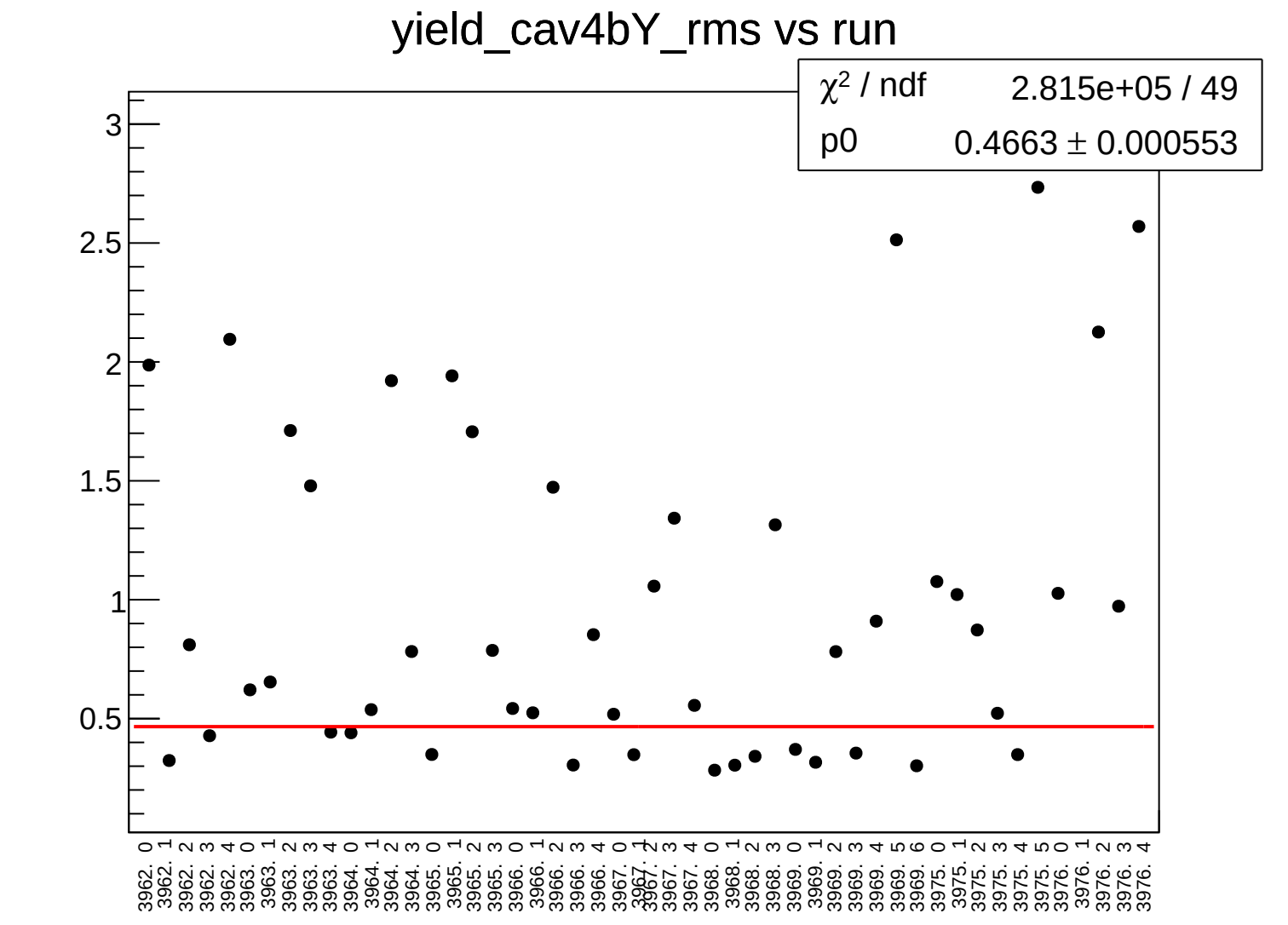

yield_cav4bX_mean vs run
χ² / ndf 8.047e+05 / 49
p0 −3.226 ± 0.00226
pull
Entries 50
Mean 10.98
Std Dev 8.112

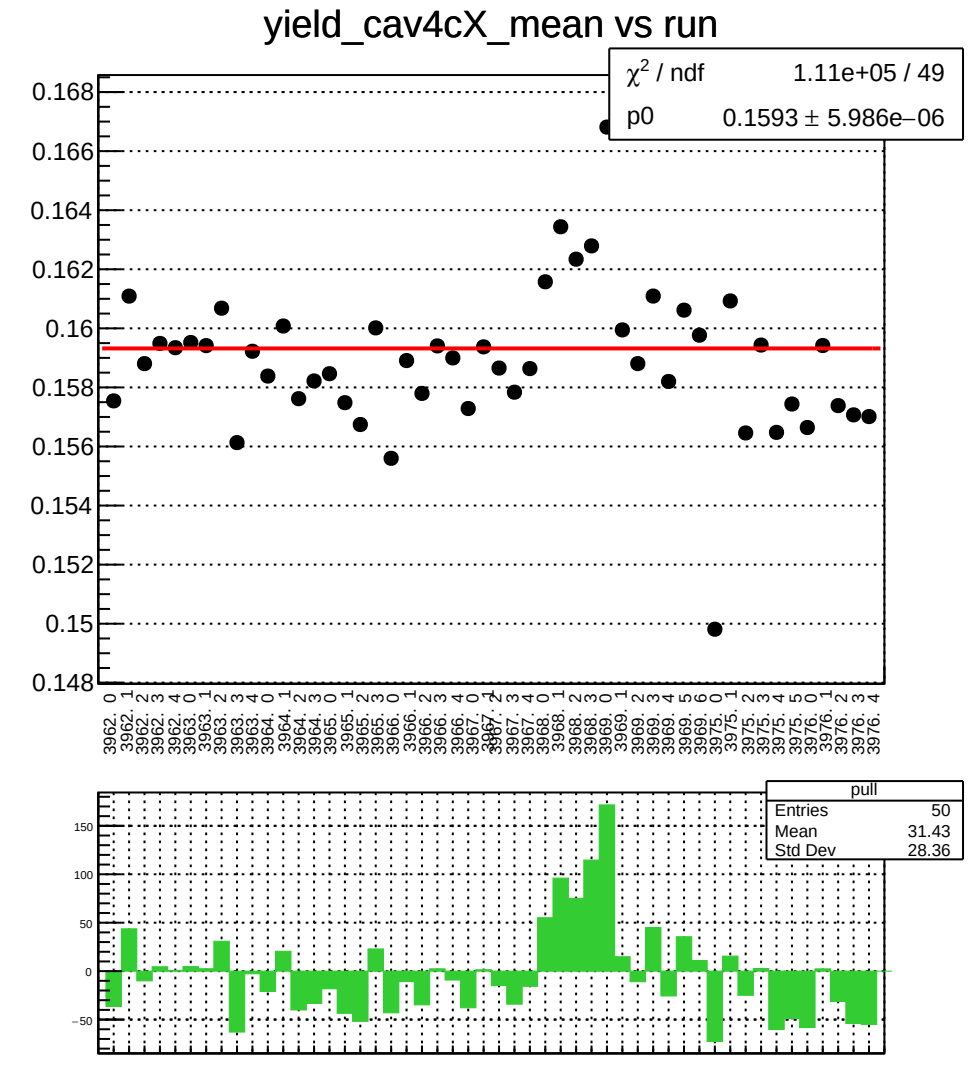

pull1D
Entries 50
Mean 1.654
Std Dev 4.466

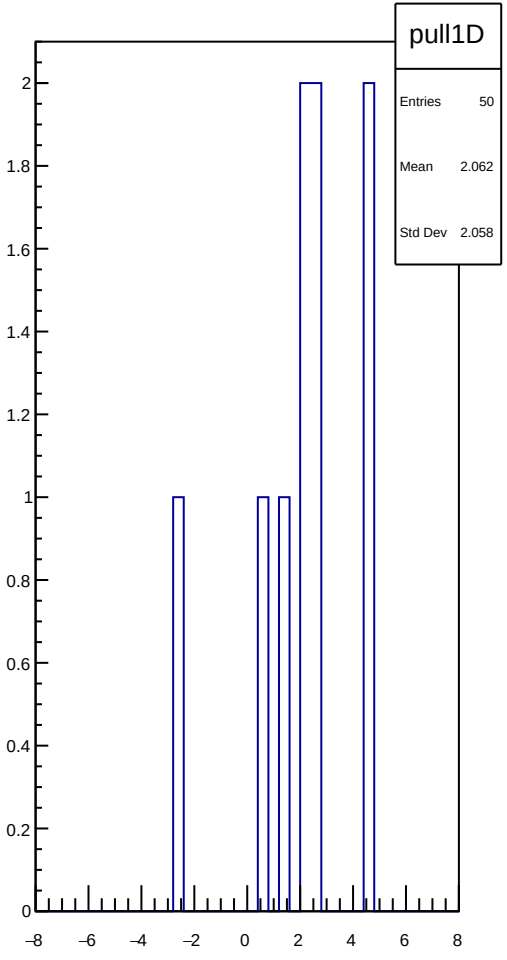

yield_cav4bX_rms vs run
χ^2 / ndf 4.856e+05 / 49
p0 1.138 ± 0.001598
5
4
3
2
1
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

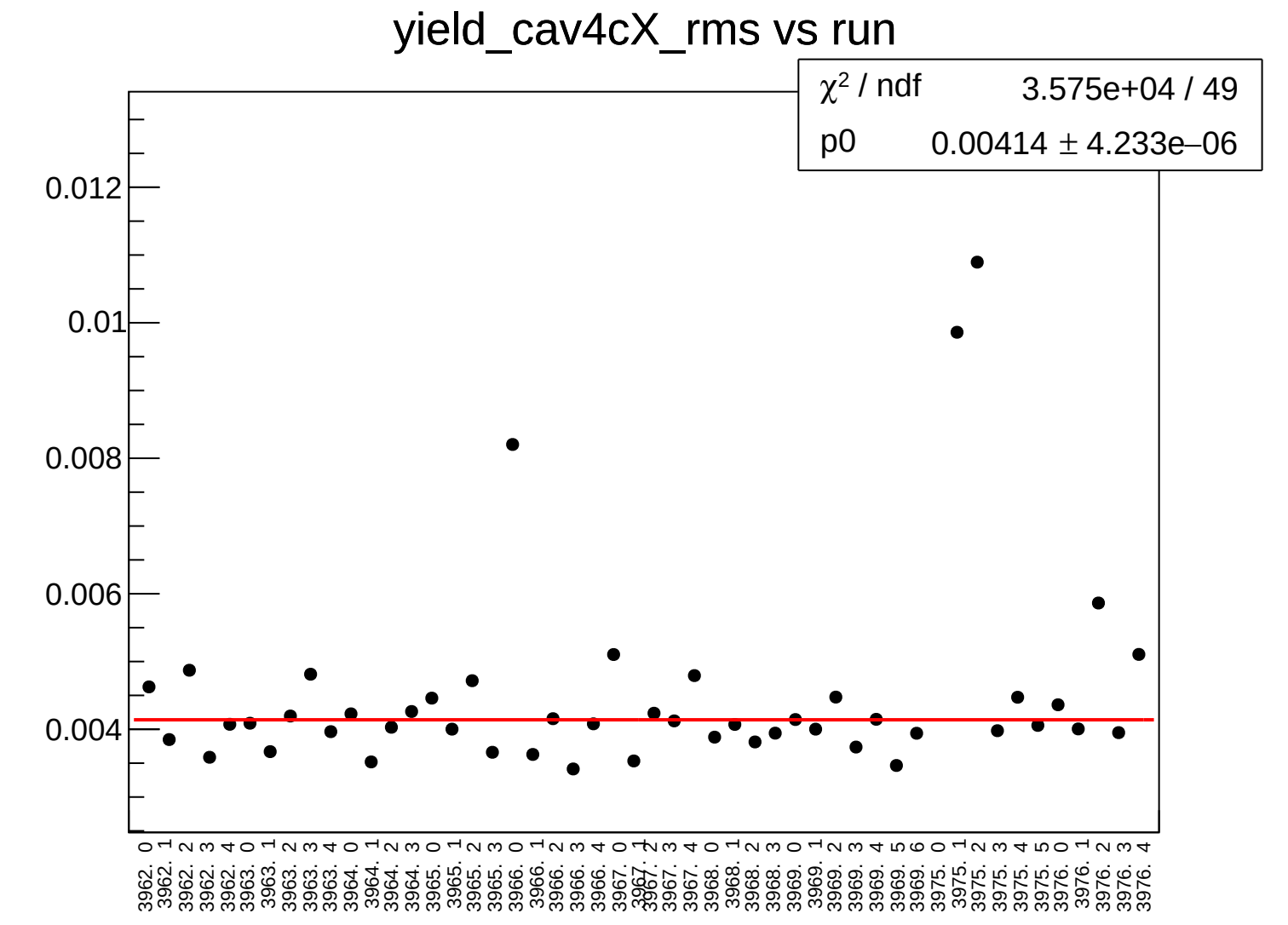

yield_cav4bY_mean vs run
χ² / ndf 1.135e+06 / 49
p0 0.98 ± 0.0007821
pull
Entries 50
Mean 8.831
Std Dev 38.05

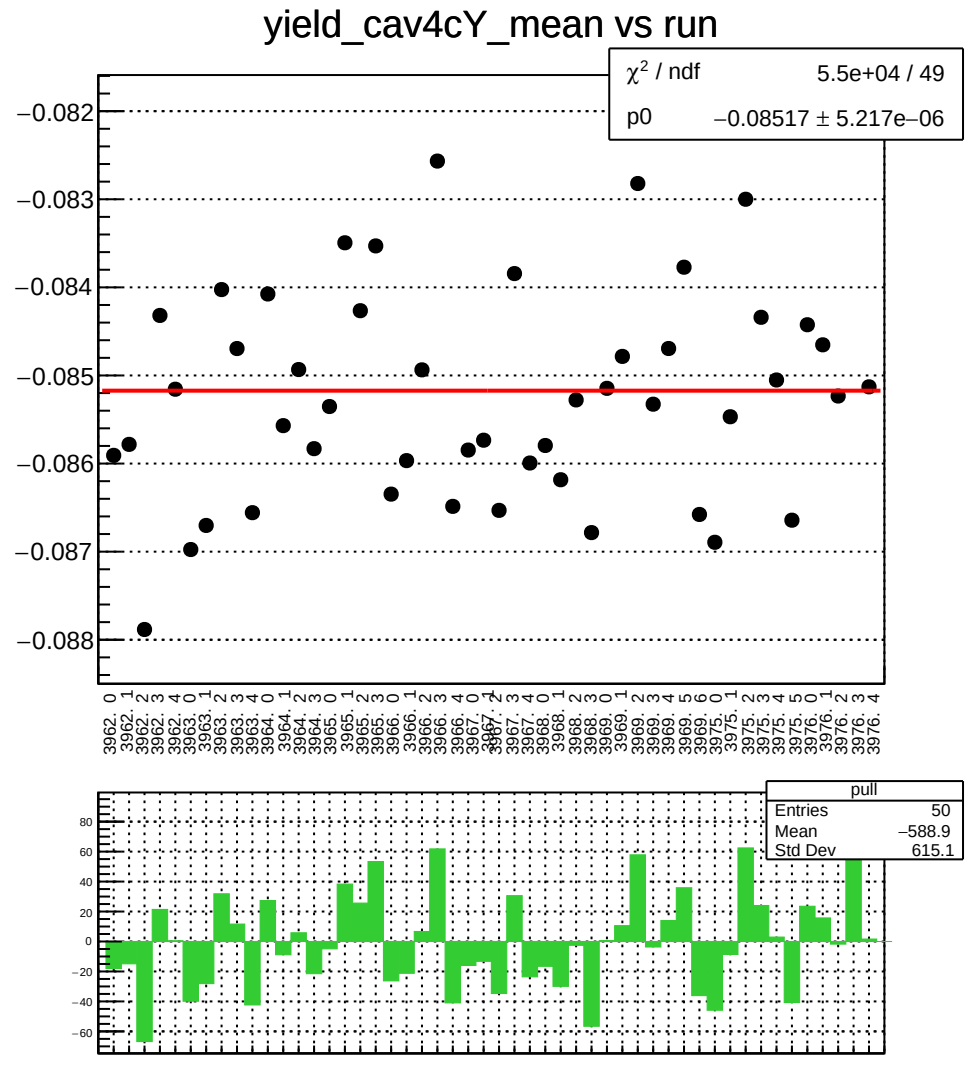

pull1D
Entries 50
Mean −5.646
Std Dev 2.262

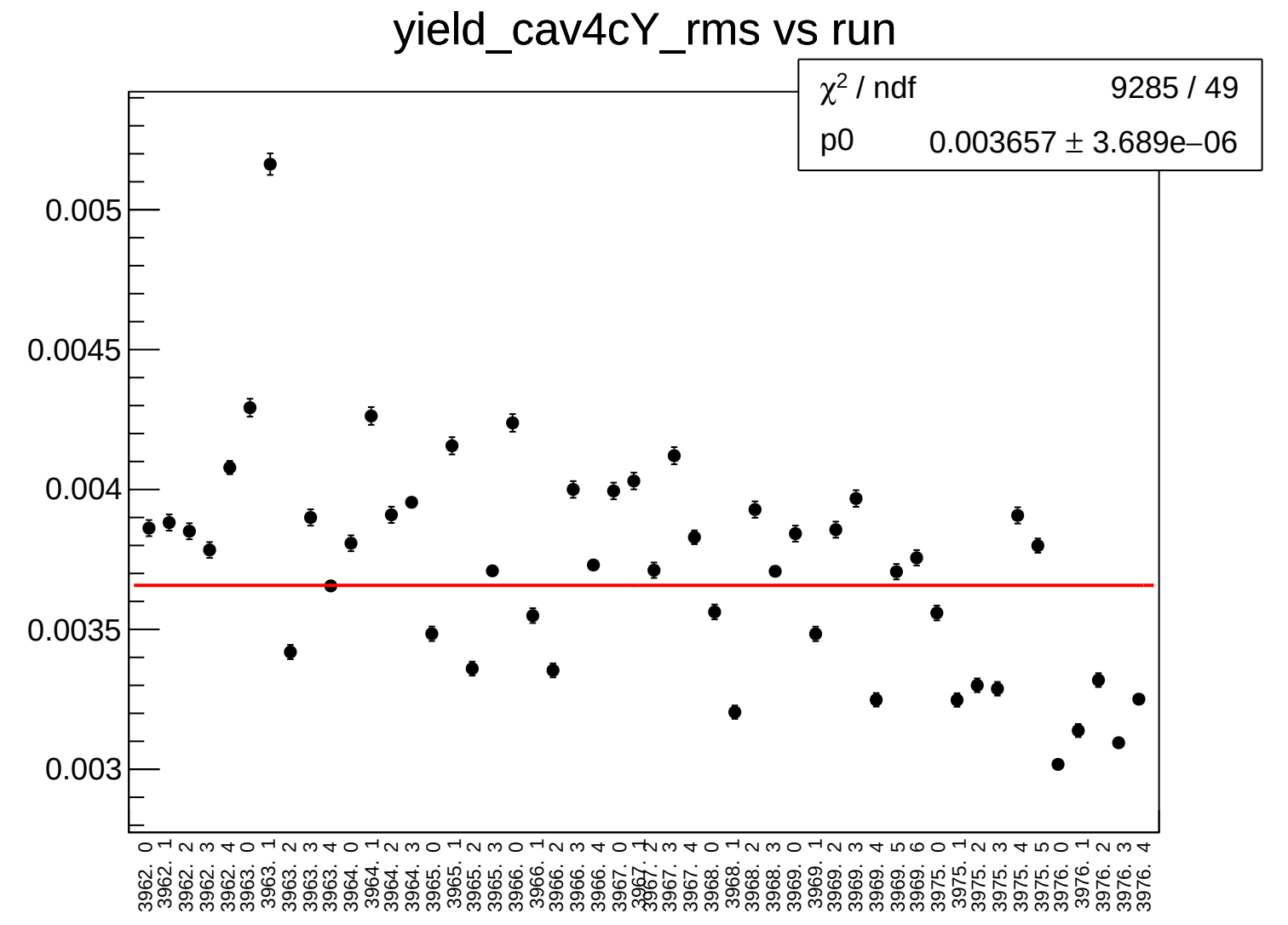

yield_cav4bY_rms vs run
χ² / ndf 2.815e+05 / 49
p0 0.4663 ± 0.000553
3
2.5
2
1.5
1
0.5
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

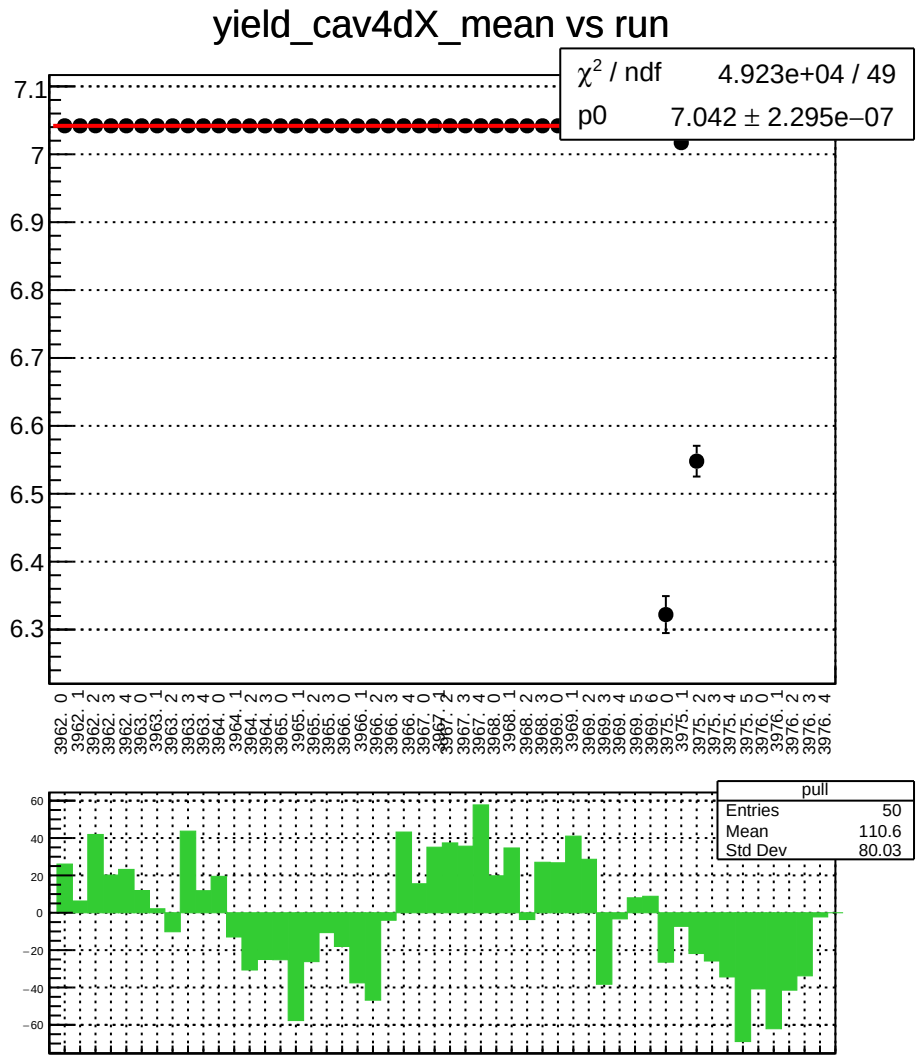

yield_cav4cX_mean vs run
χ² / ndf 1.11e+05 / 49
p0 0.1593 ± 5.986e−06
pull
Entries 50
Mean 31.43
Std Dev 28.36

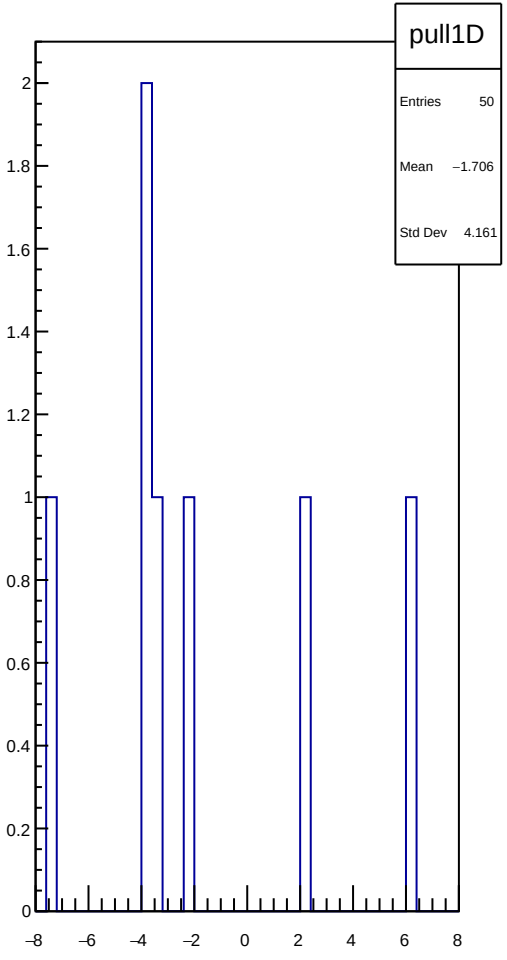

pull1D
Entries 50
Mean 2.062
Std Dev 2.058

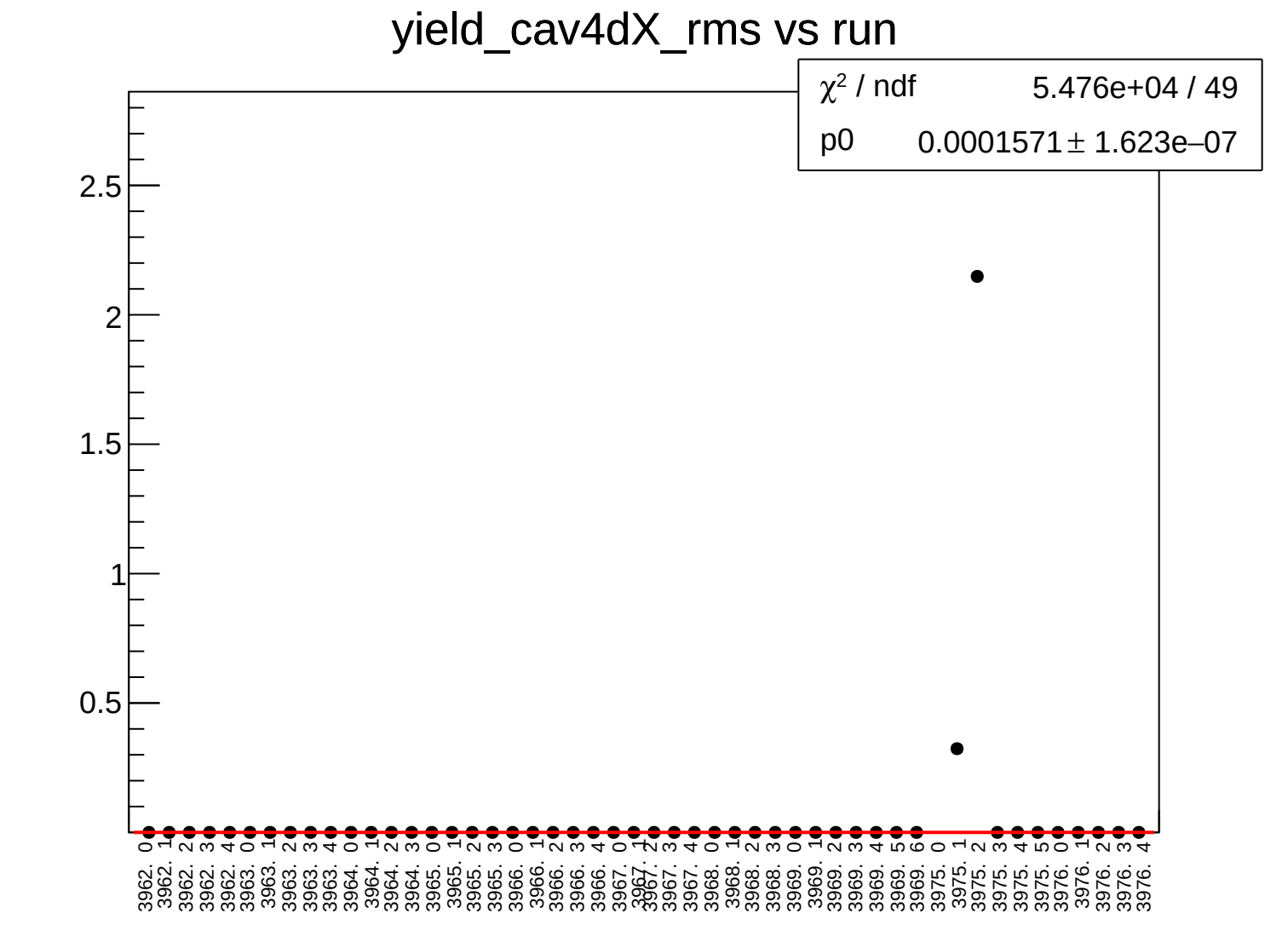

yield_cav4cX_rms vs run
χ² / ndf 3.575e+04 / 49
p0 0.00414 ± 4.233e–06
0.012
0.01
0.008
0.006
0.004
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

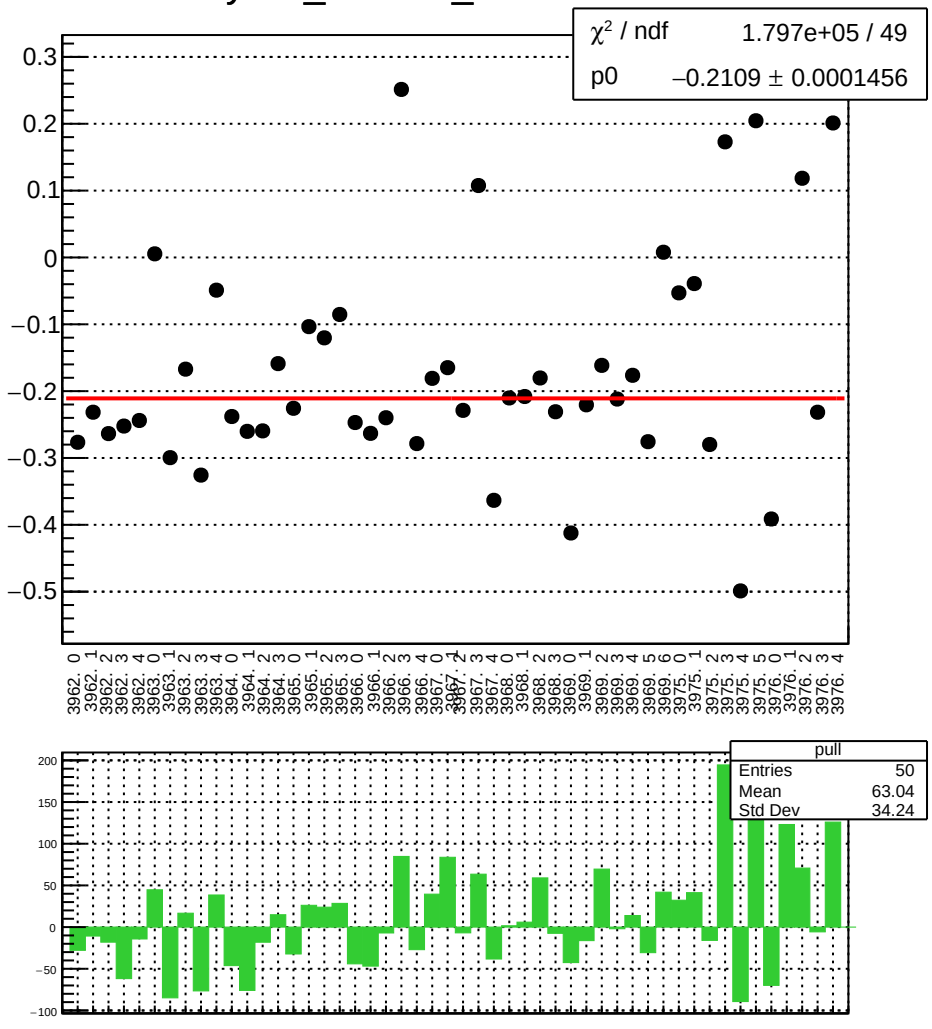

yield_cav4cY_mean vs run
χ² / ndf 5.5e+04 / 49
p0 −0.08517 ± 5.217e−06
−0.082
−0.083
−0.084
−0.085
−0.086
−0.087
−0.088
pull
Entries 50
Mean −588.9
Std Dev 615.1
pull1D
Entries 50
Mean 0.536
Std Dev 3.668

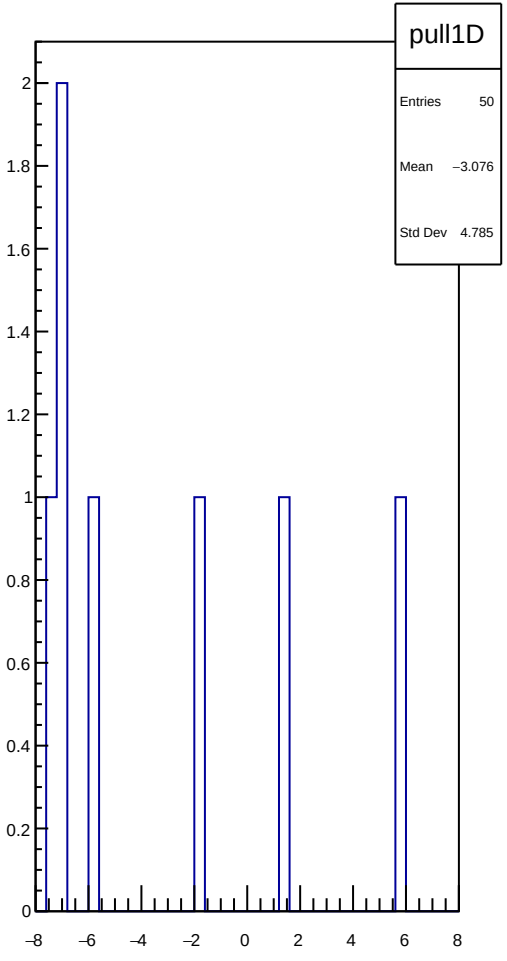

yield_cav4cY_rms vs run
χ² / ndf 9285 / 49
p0 0.003657 ± 3.689e−06
0.005
0.0045
0.004
0.0035
0.003
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

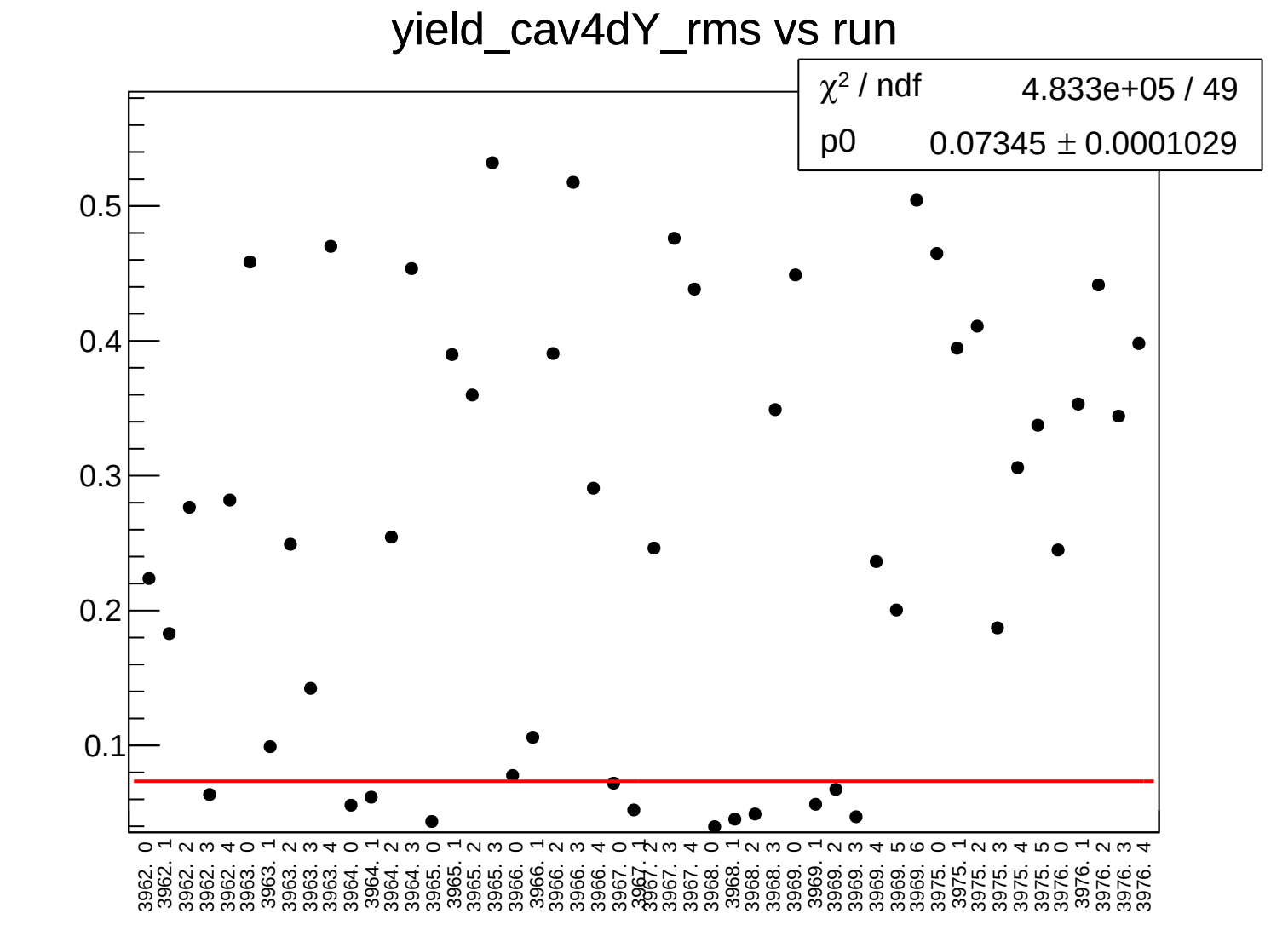

yield_cav4dX_mean vs run
χ² / ndf 4.923e+04 / 49
p0 7.042 ± 2.295e−07
pull
Entries 50
Mean 110.6
Std Dev 80.03

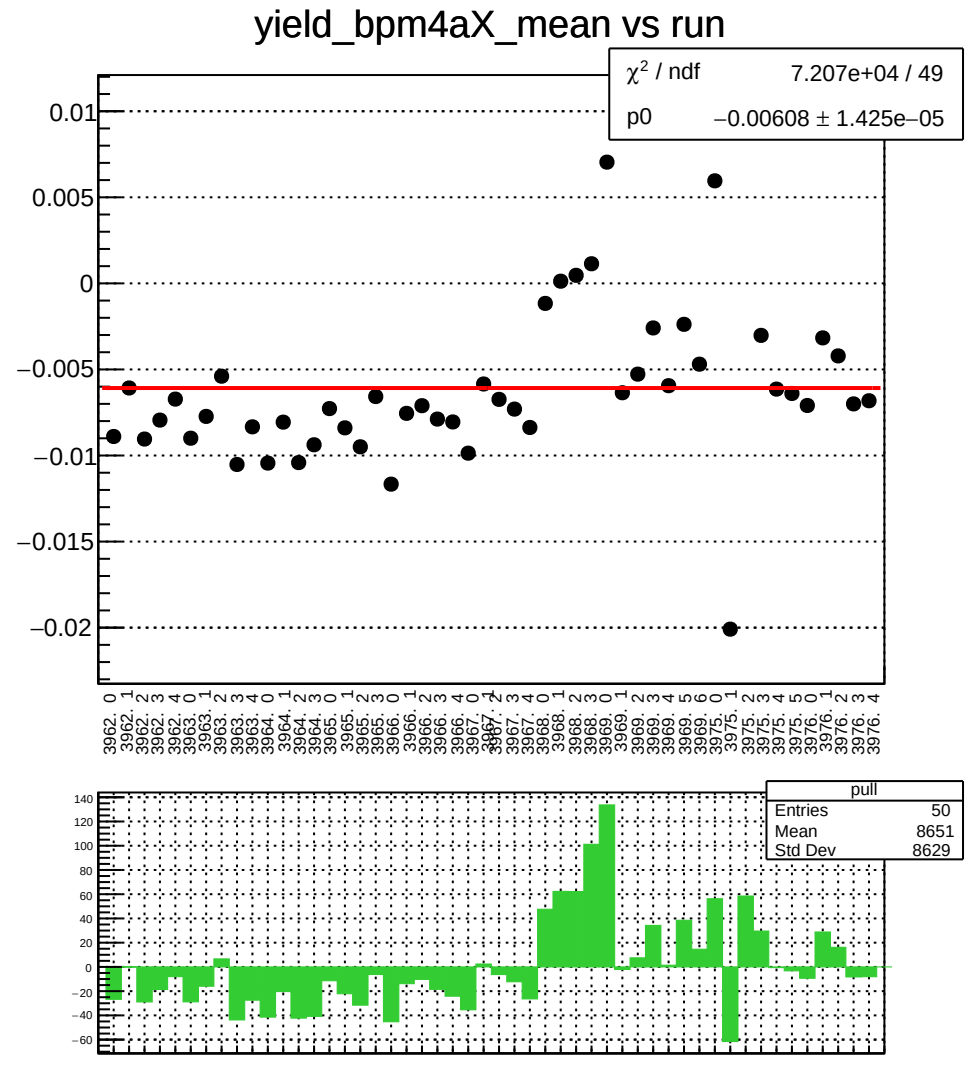

pull1D
Entries 50
Mean −1.706
Std Dev 4.161

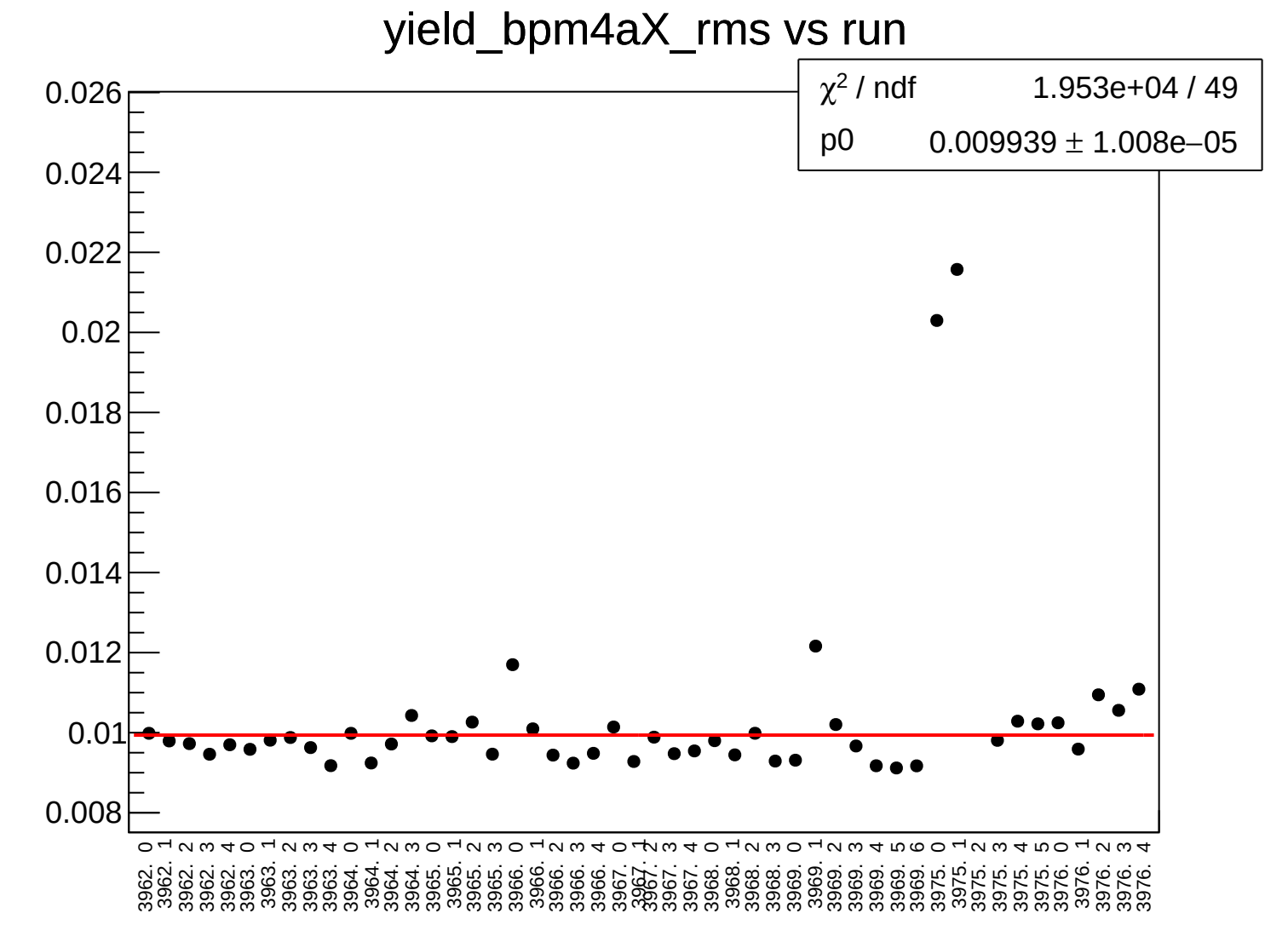

yield_cav4dX_rms vs run
χ² / ndf 5.476e+04 / 49
p0 0.0001571 ± 1.623e−07
2.5
2
1.5
1
0.5
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

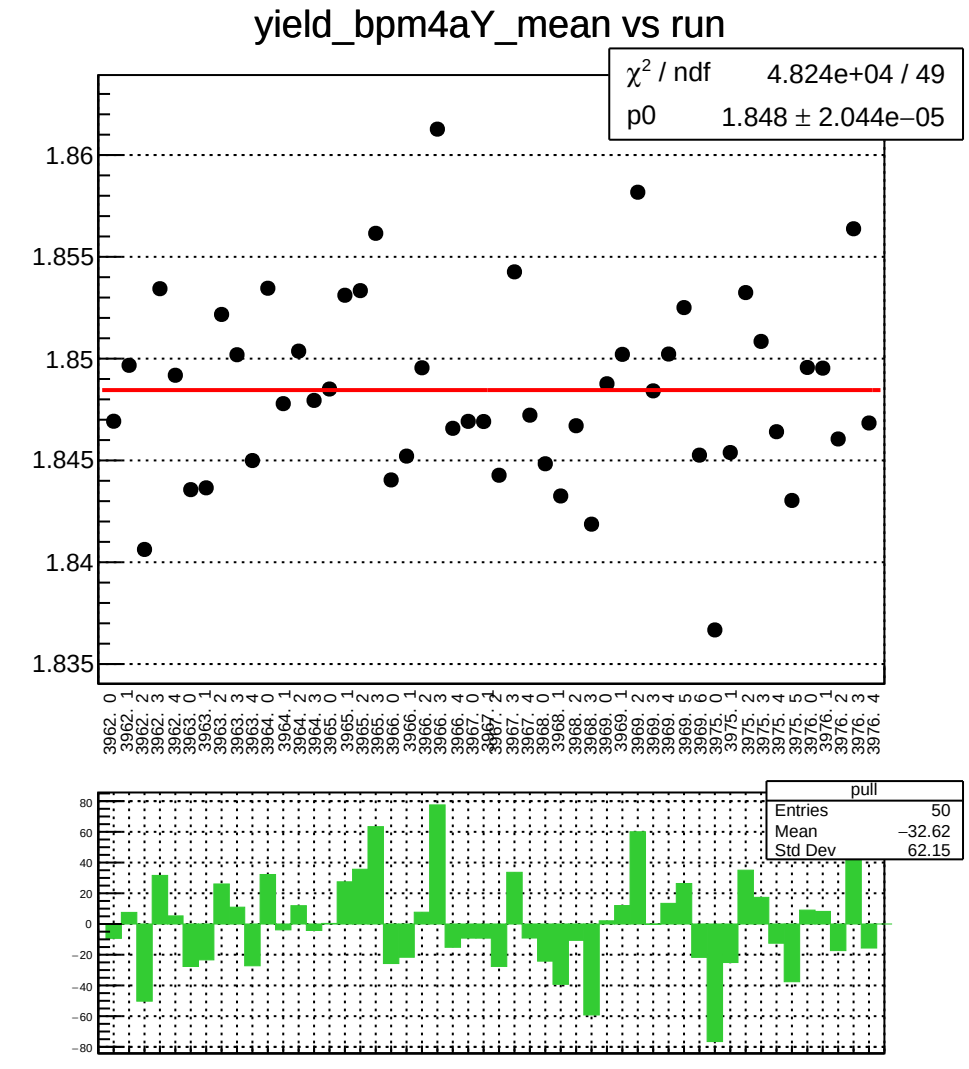

yield_cav4dY_mean vs run
χ² / ndf 1.797e+05 / 49
p0 −0.2109 ± 0.0001456
pull
Entries 50
Mean 63.04
Std Dev 34.24

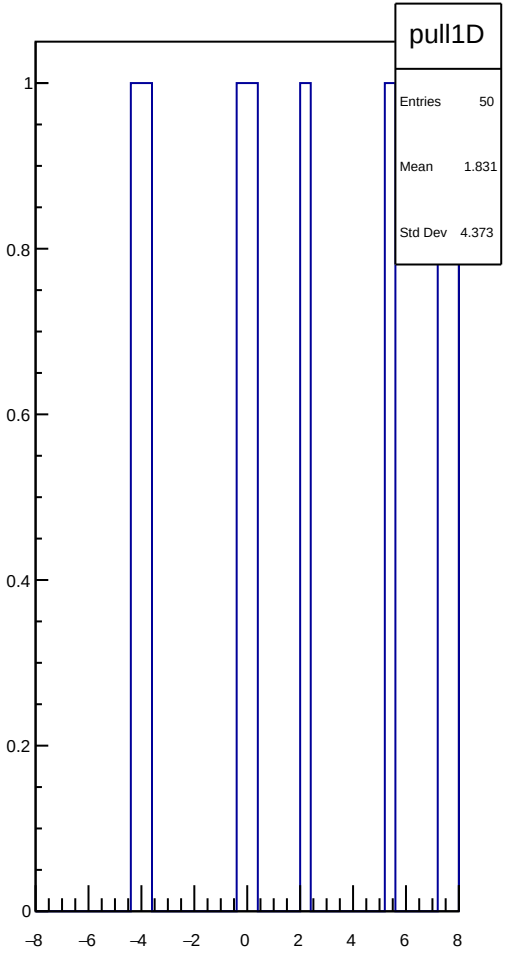

pull1D
Entries 50
Mean −3.076
Std Dev 4.785

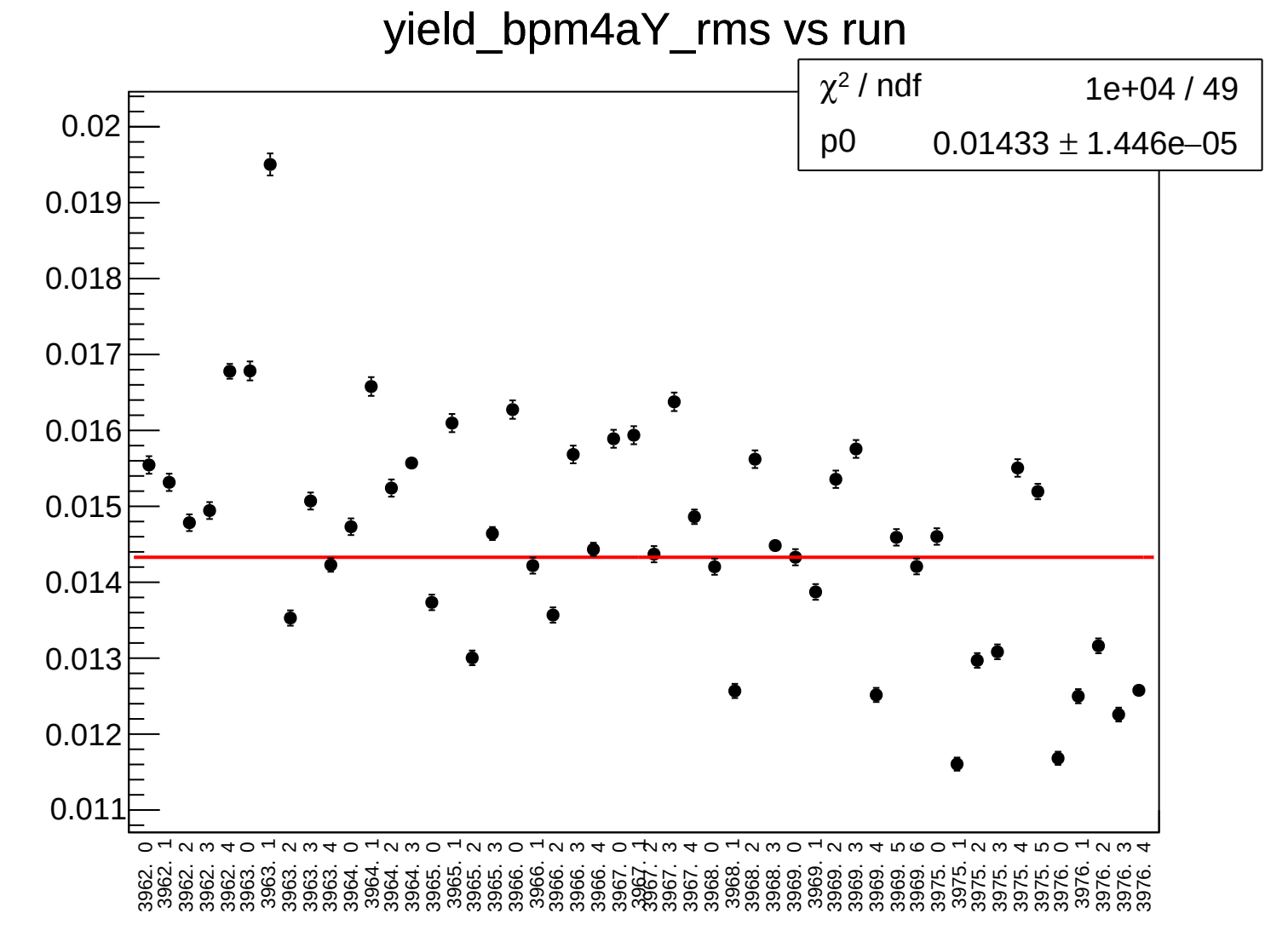

yield_cav4dY_rms vs run
χ² / ndf 4.833e+05 / 49
p0 0.07345 ± 0.0001029
0.5
0.4
0.3
0.2
0.1
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

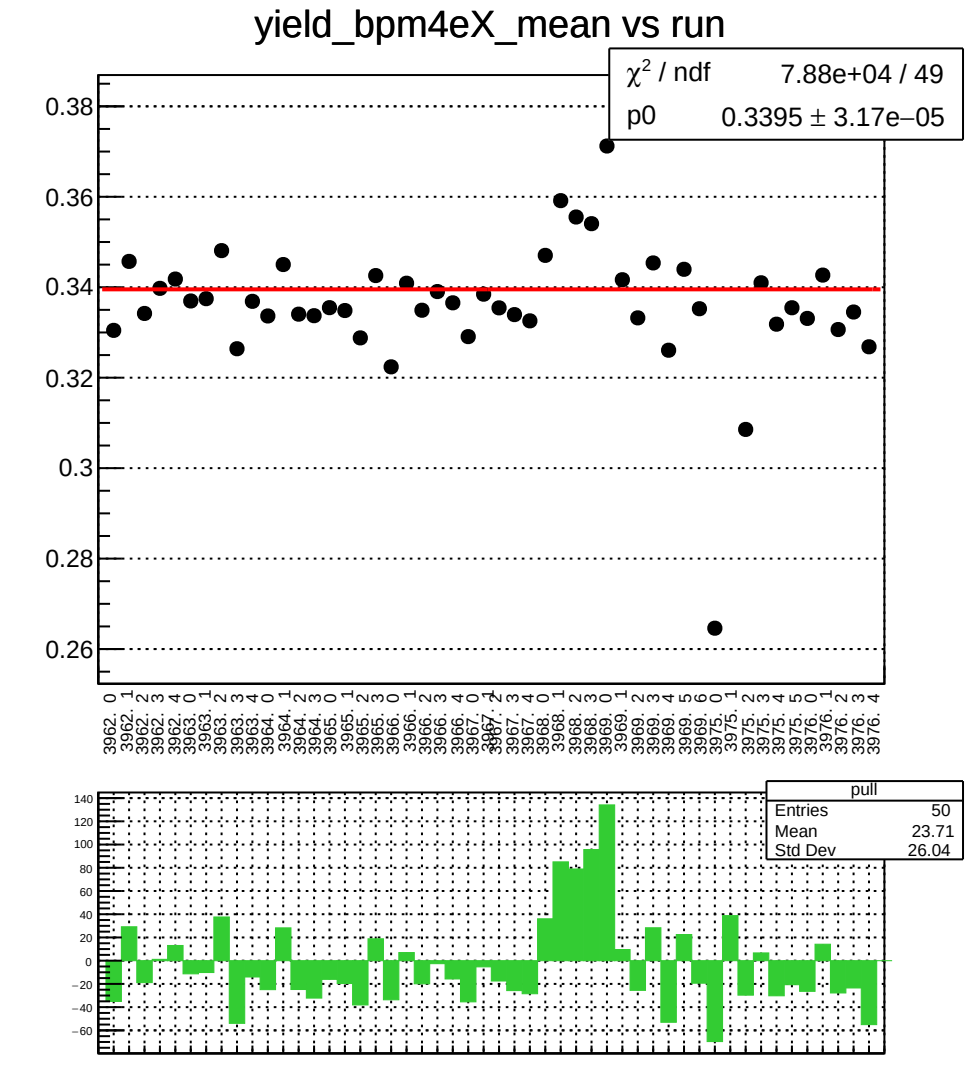

yield_bpm4aX_mean vs run
χ² / ndf 7.207e+04 / 49
p0 −0.00608 ± 1.425e−05
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 8651
Std Dev 8629
140
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 50
Mean −0.05683
Std Dev 4.501
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

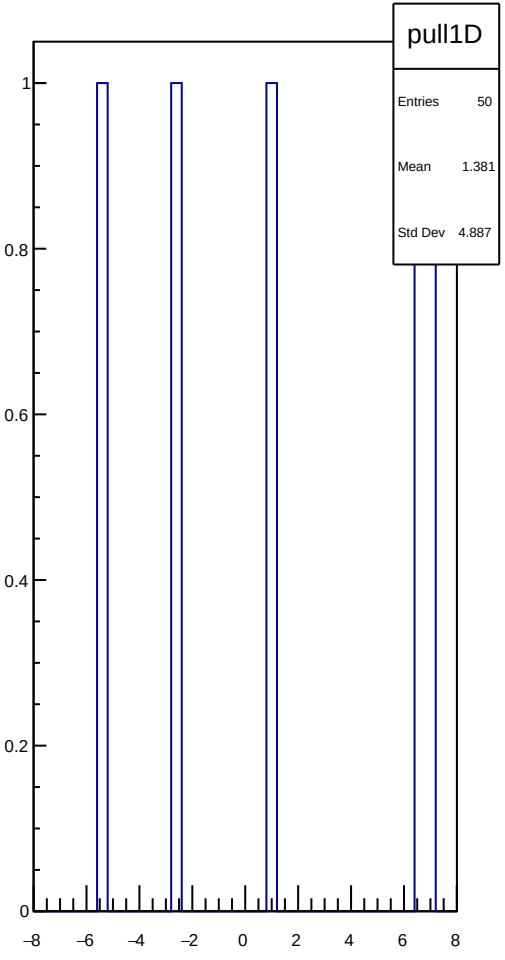

yield_bpm4aX_rms vs run
χ² / ndf 1.953e+04 / 49
p0 0.009939 ± 1.008e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

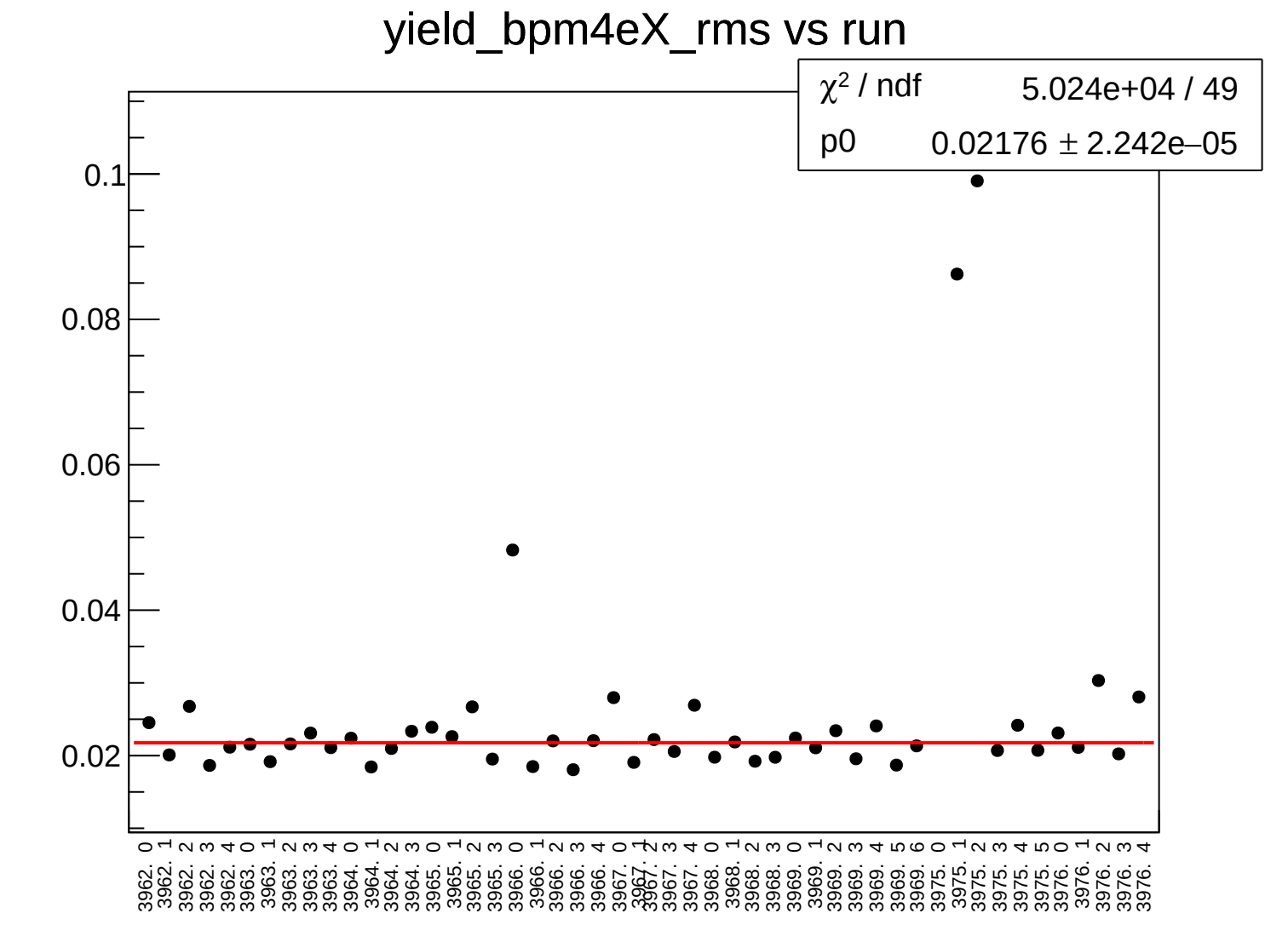

yield_bpm4aY_mean vs run
χ² / ndf 4.824e+04 / 49
p0 1.848 ± 2.044e−05
1.86
1.855
1.85
1.845
1.84
1.835
pull
Entries 50
Mean −32.62
Std Dev 62.15
80
60
40
20
0
−20
−40
−60
−80

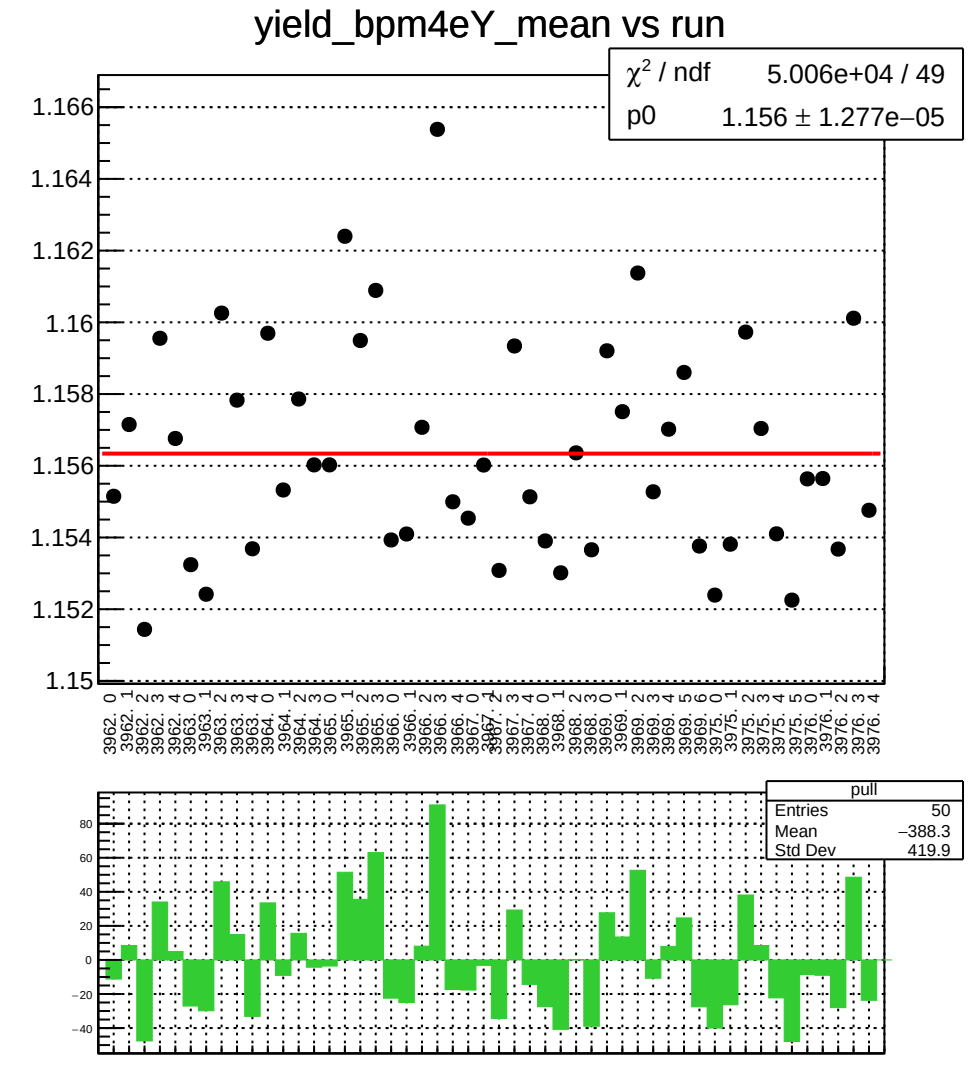

pull1D
Entries 50
Mean 1.831
Std Dev 4.373
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

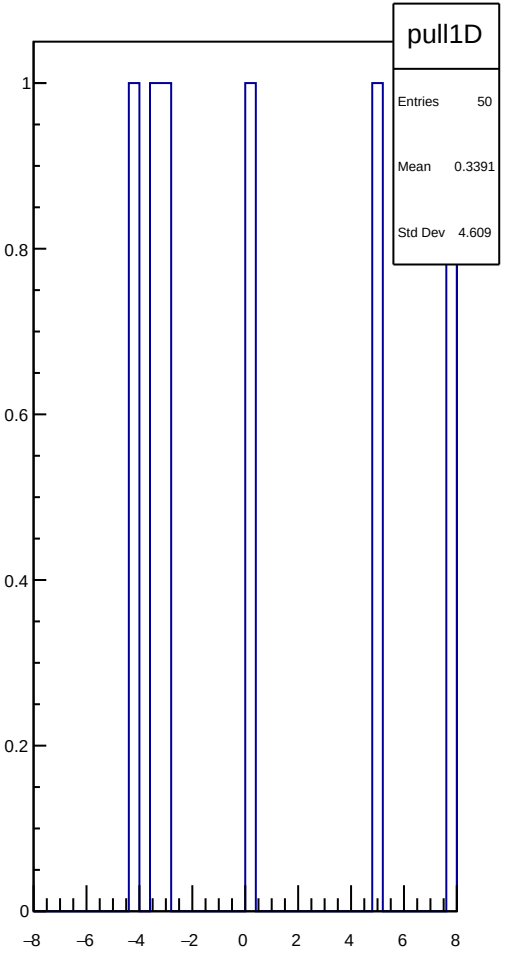

yield_bpm4aY_rms vs run
χ² / ndf 1e+04 / 49
p0 0.01433 ± 1.446e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

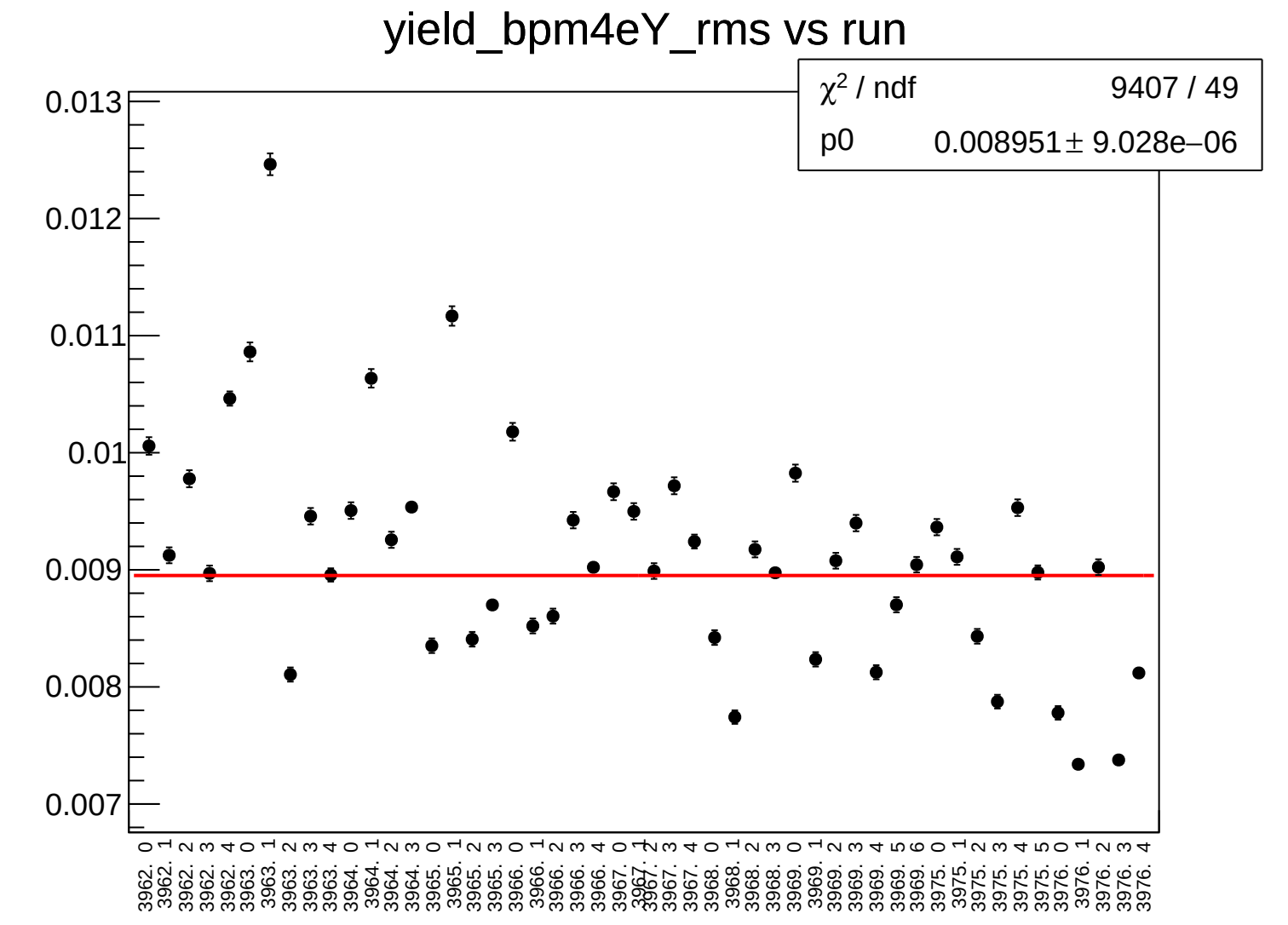

yield_bpm4eX_mean vs run
χ² / ndf 7.88e+04 / 49
p0 0.3395 ± 3.17e−05
0.38
0.36
0.34
0.32
0.3
0.28
0.26
pull
Entries 50
Mean 23.71
Std Dev 26.04
140
120
100
80
60
40
20
0
−20
−40
−60

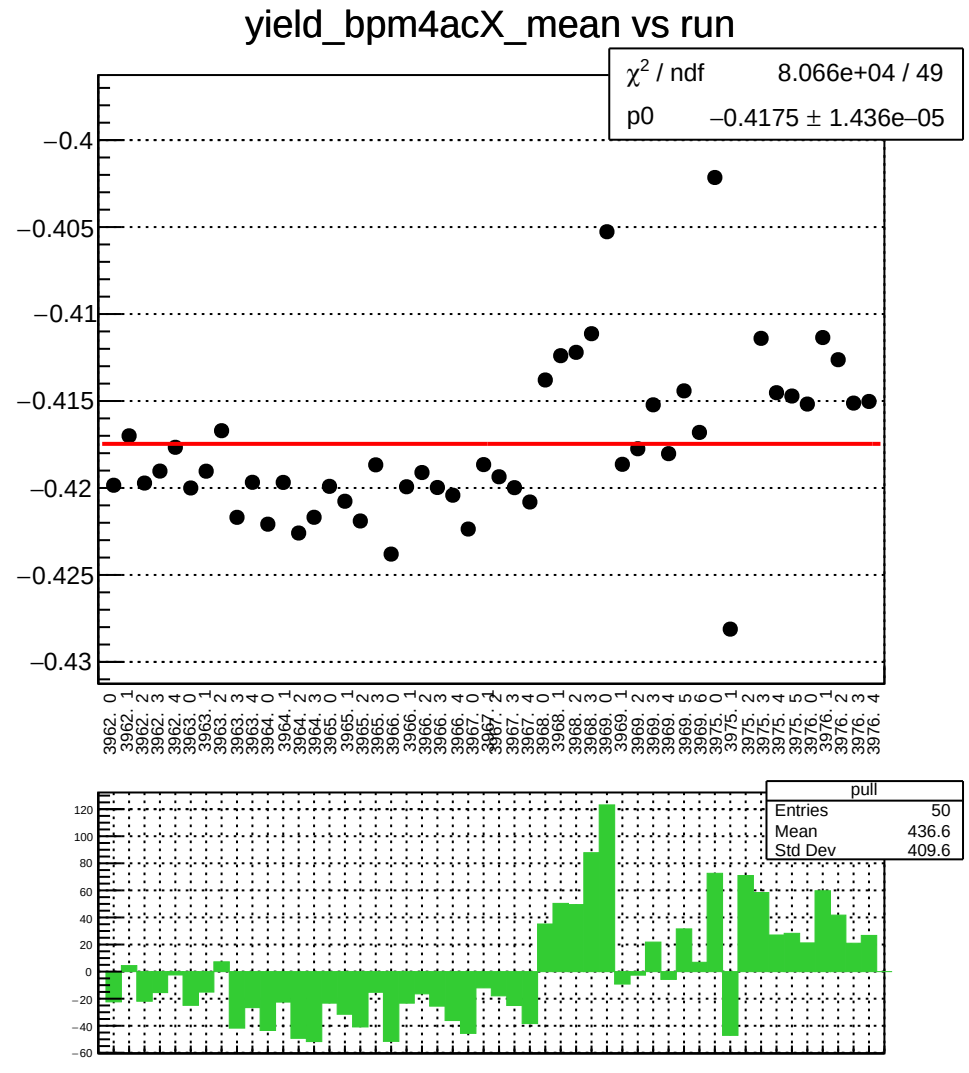

pull1D
Entries 50
Mean 1.381
Std Dev 4.887
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

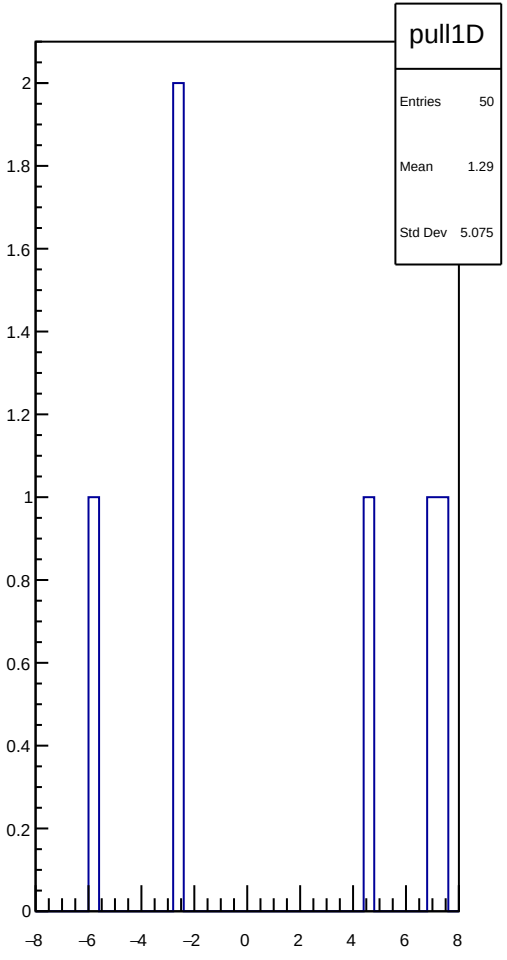

yield_bpm4eX_rms vs run
χ² / ndf 5.024e+04 / 49
p0 0.02176 ± 2.242e–05
0.1
0.08
0.06
0.04
0.02
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

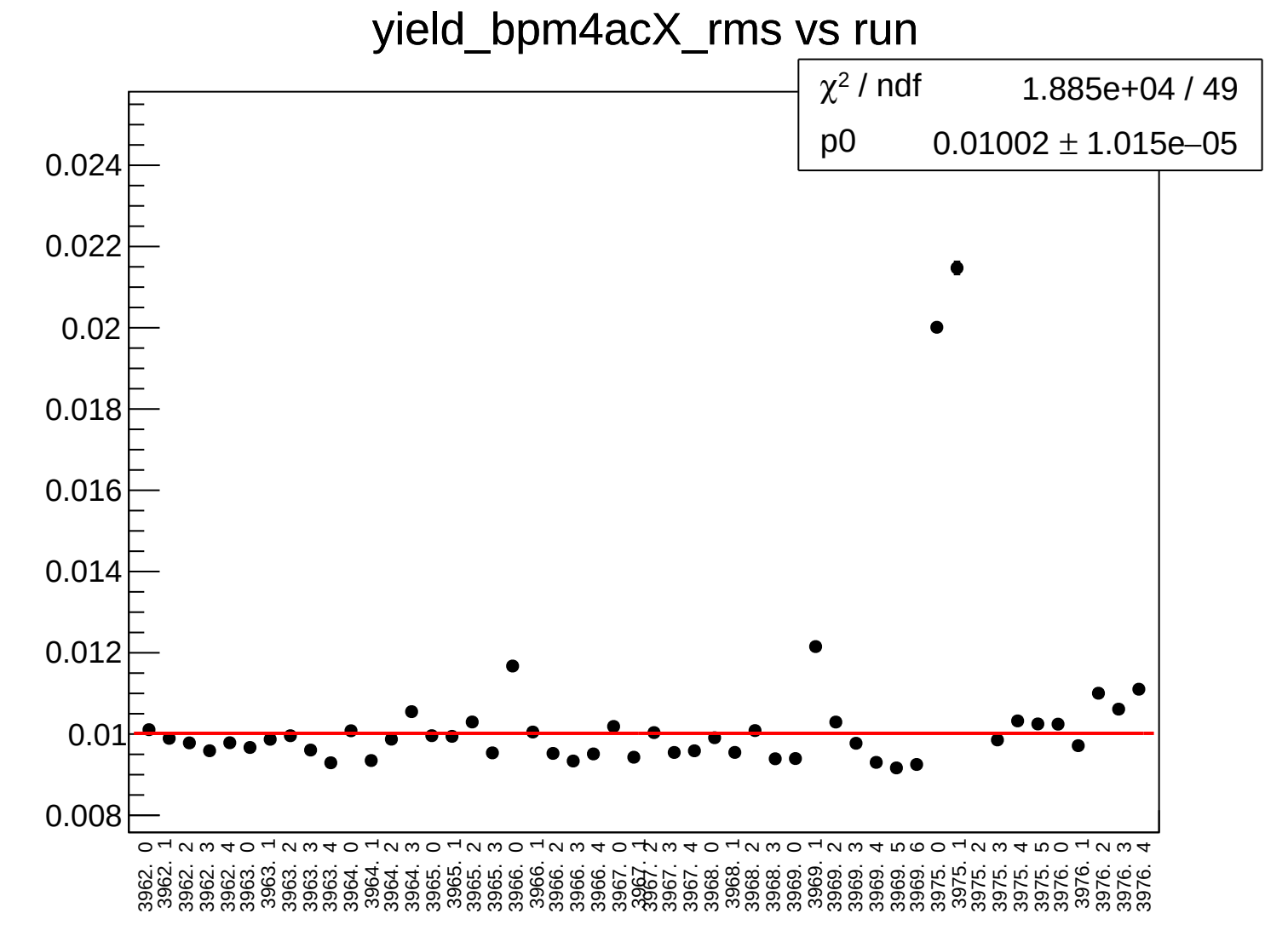

yield_bpm4eY_mean vs run
χ² / ndf 5.006e+04 / 49
p0 1.156 ± 1.277e−05
1.166
1.164
1.162
1.16
1.158
1.156
1.154
1.152
1.15
pull
Entries 50
Mean −388.3
Std Dev 419.9
80
60
40
20
0
−20
−40

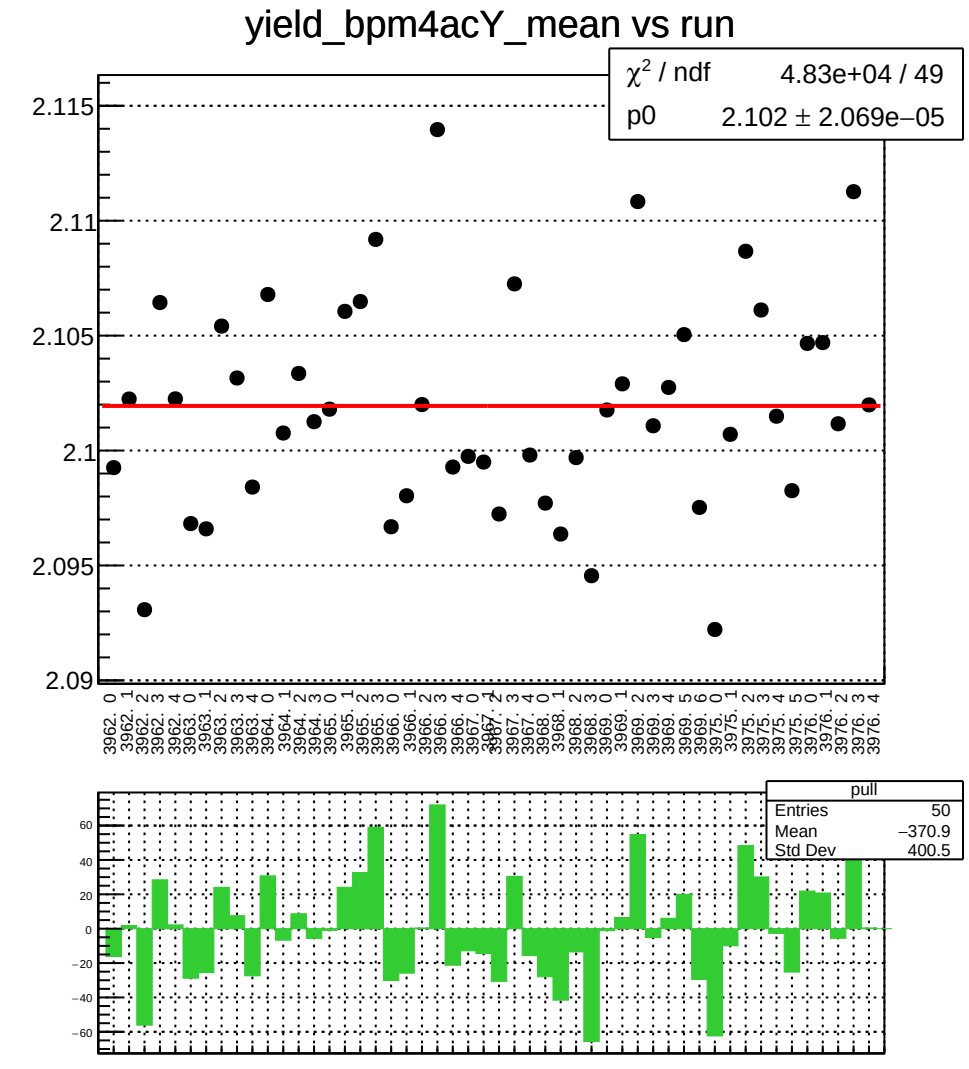

pull1D
Entries 50
Mean 0.3391
Std Dev 4.609
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

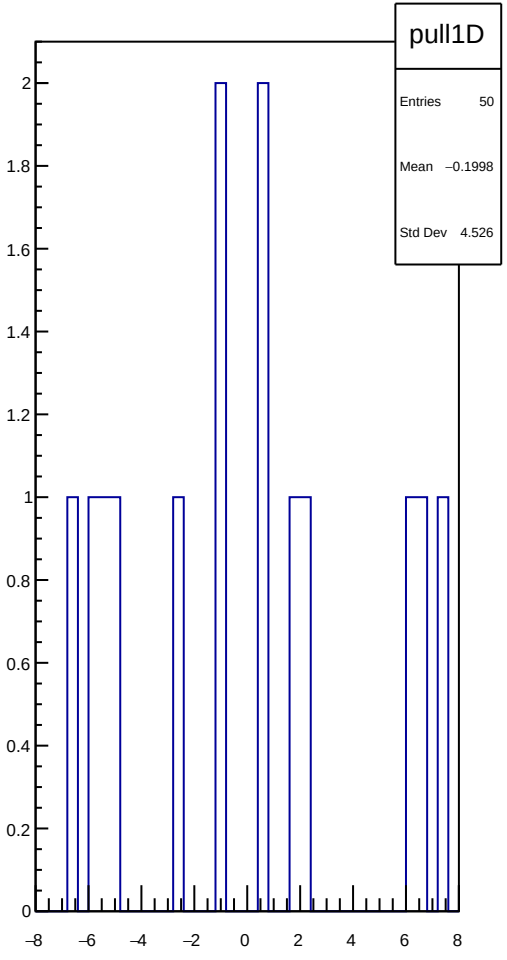

yield_bpm4eY_rms vs run
χ² / ndf 9407 / 49
p0 0.008951 ± 9.028e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

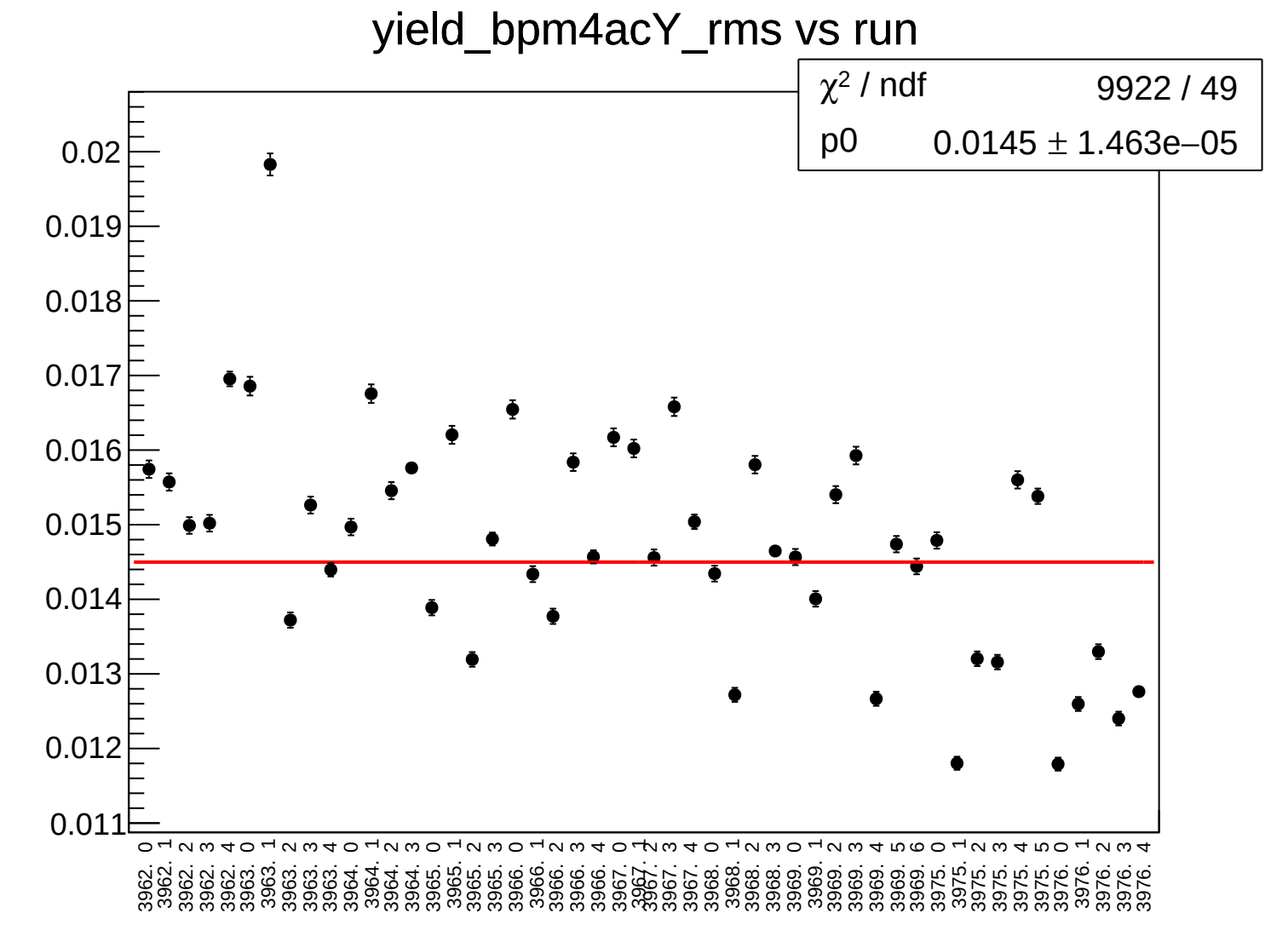

yield_bpm4acX_mean vs run
χ² / ndf 8.066e+04 / 49
p0 −0.4175 ± 1.436e−05
pull
Entries 50
Mean 436.6
Std Dev 409.6

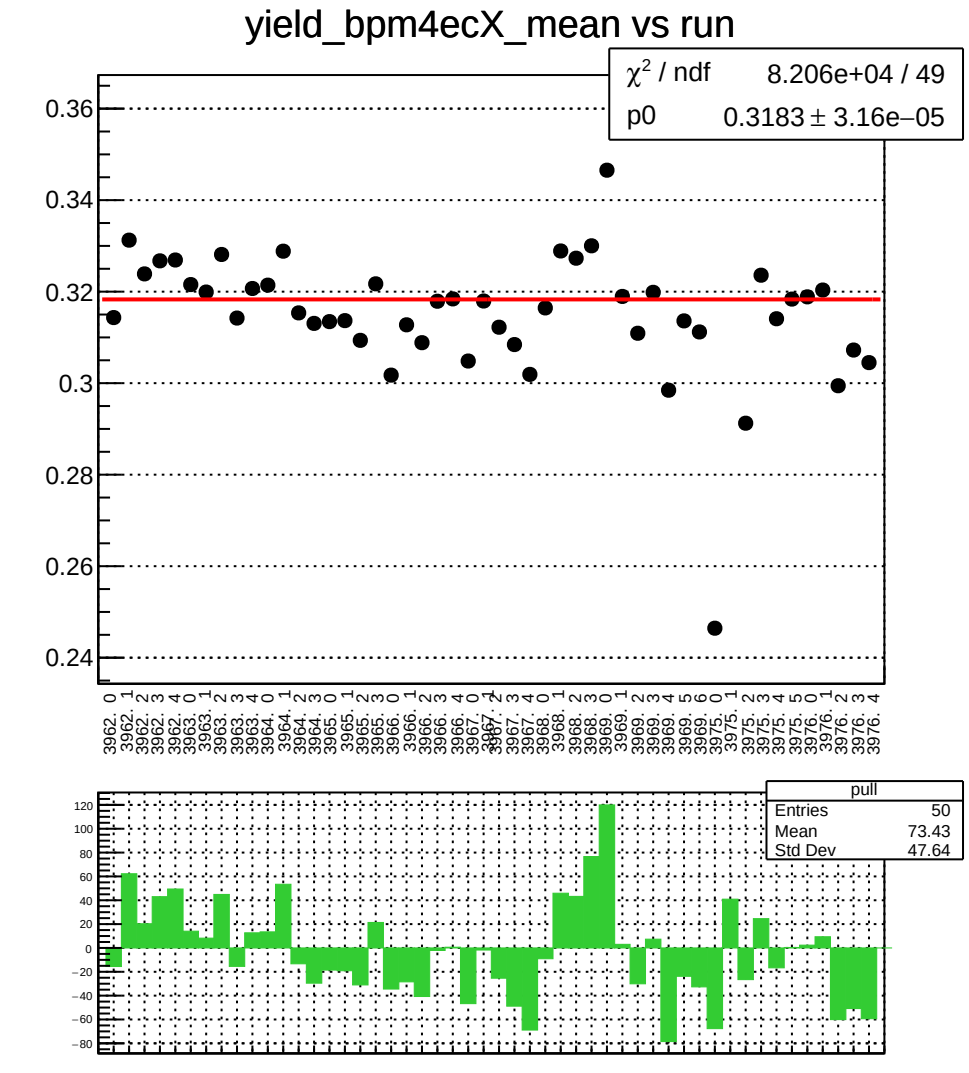

pull1D
Entries 50
Mean 1.29
Std Dev 5.075

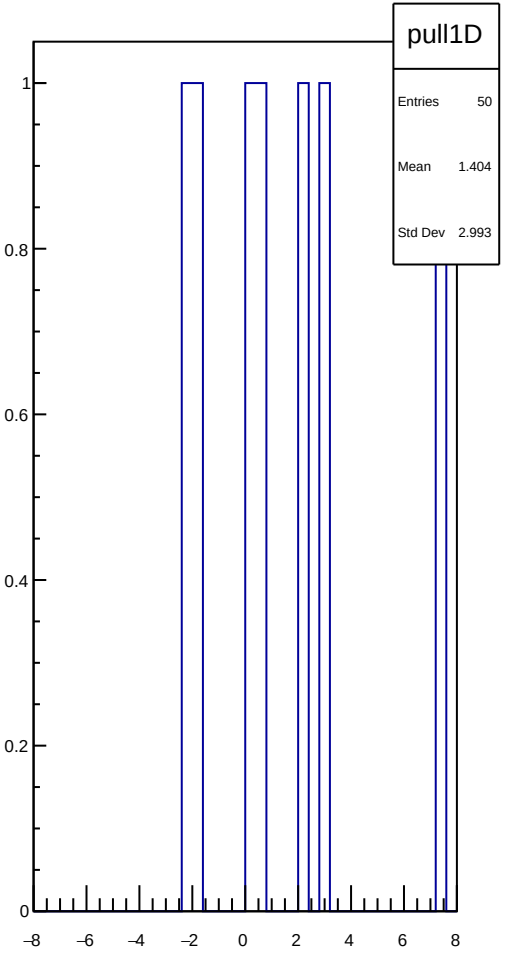

yield_bpm4acX_rms vs run
χ² / ndf 1.885e+04 / 49
p0 0.01002 ± 1.015e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

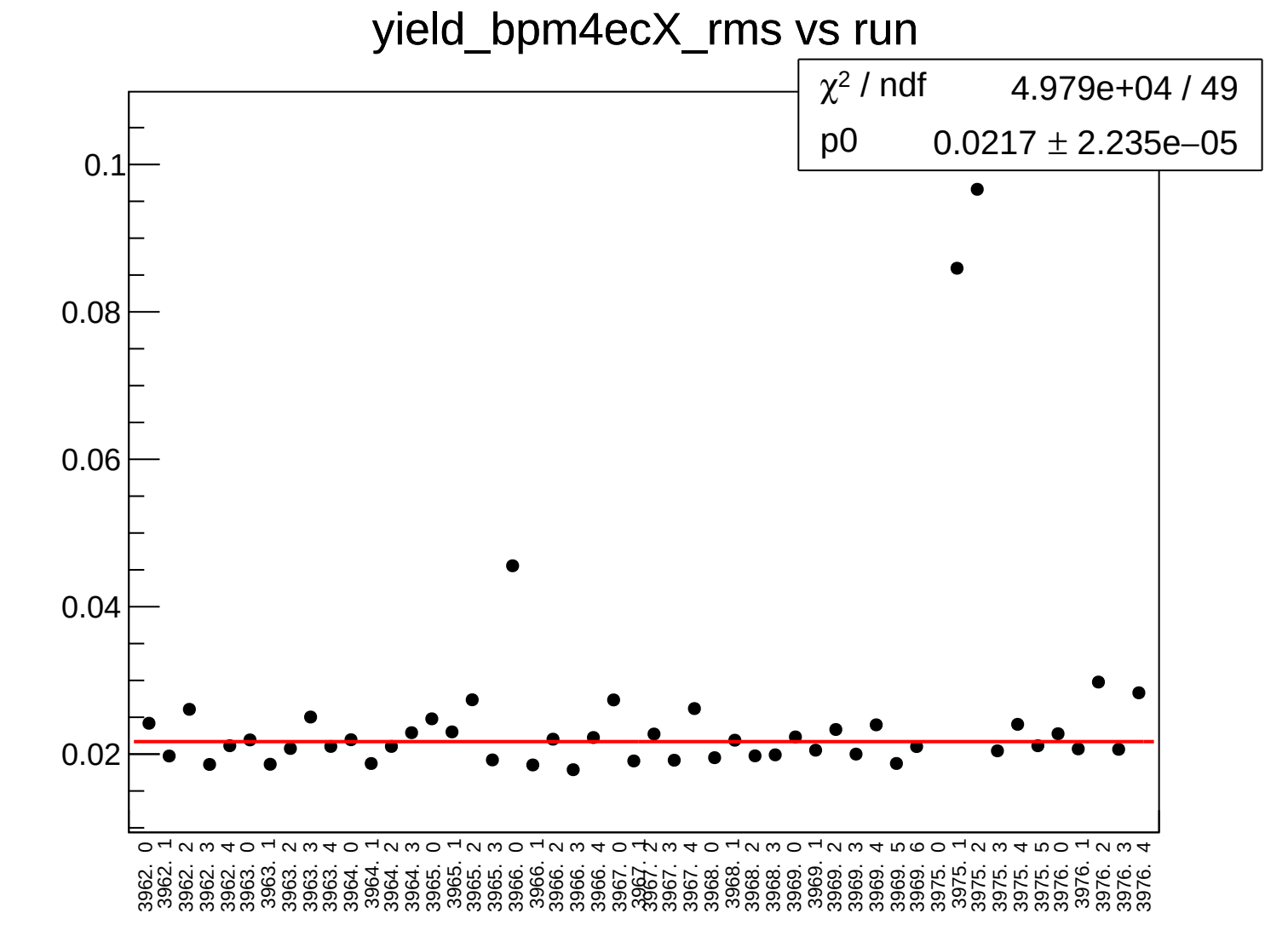

yield_bpm4acY_mean vs run
χ² / ndf 4.83e+04 / 49
p0 2.102 ± 2.069e−05
2.115
2.11
2.105
2.1
2.095
2.09
pull
Entries 50
Mean −370.9
Std Dev 400.5
60
40
20
0
−20
−40
−60

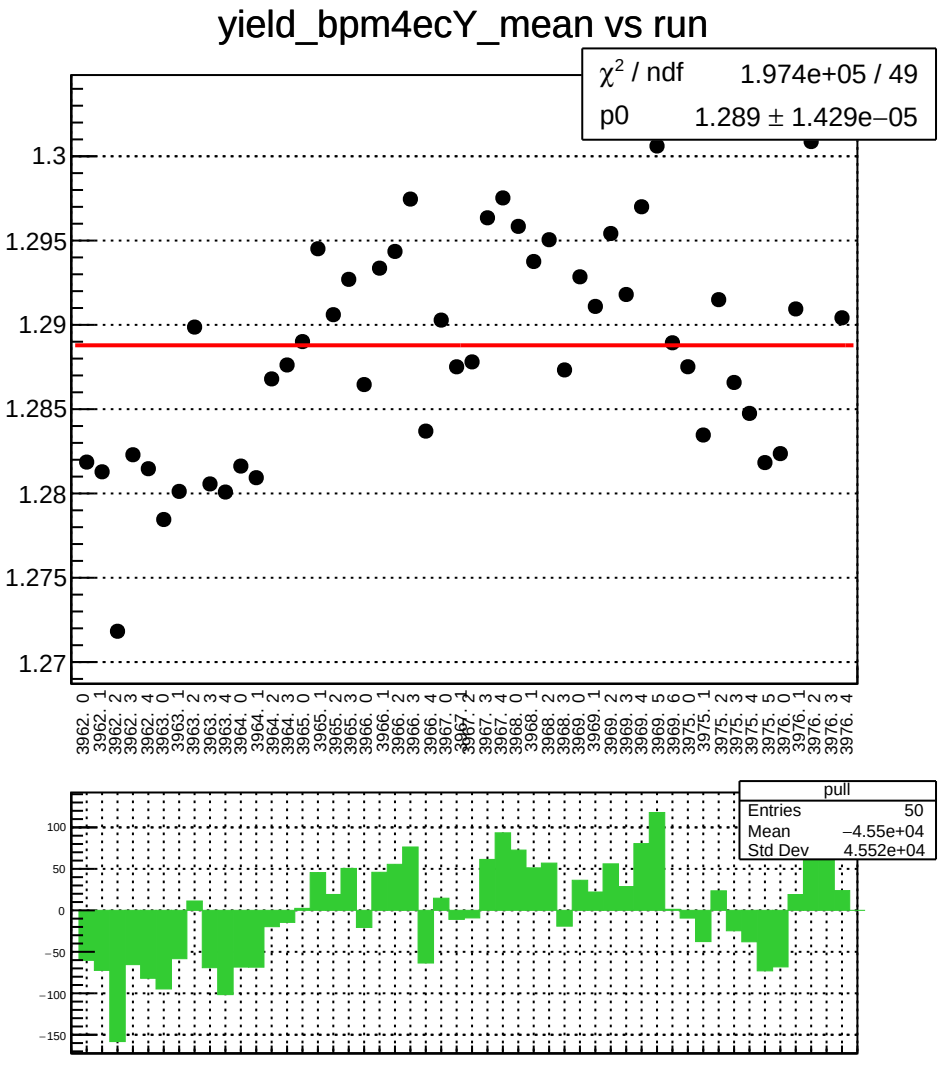

pull1D
Entries 50
Mean −0.1998
Std Dev 4.526
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

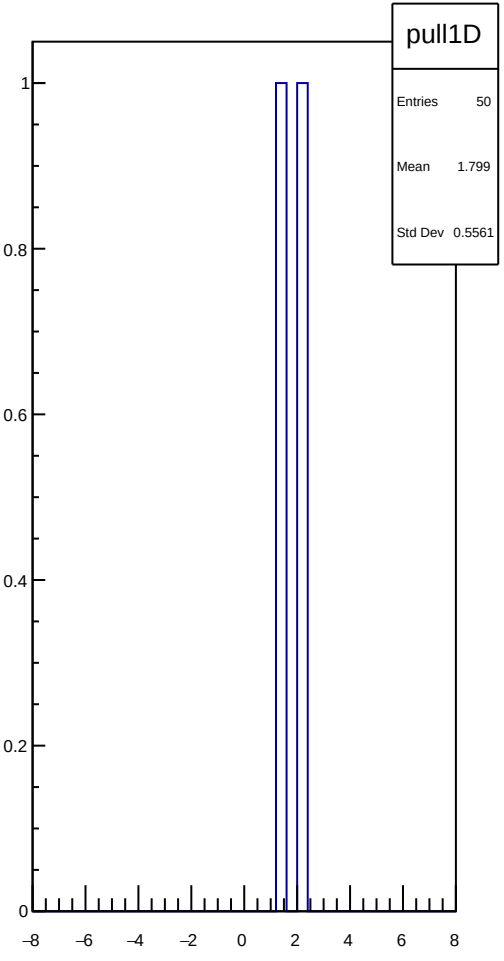

yield_bpm4acY_rms vs run
χ² / ndf 9922 / 49
p0 0.0145 ± 1.463e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

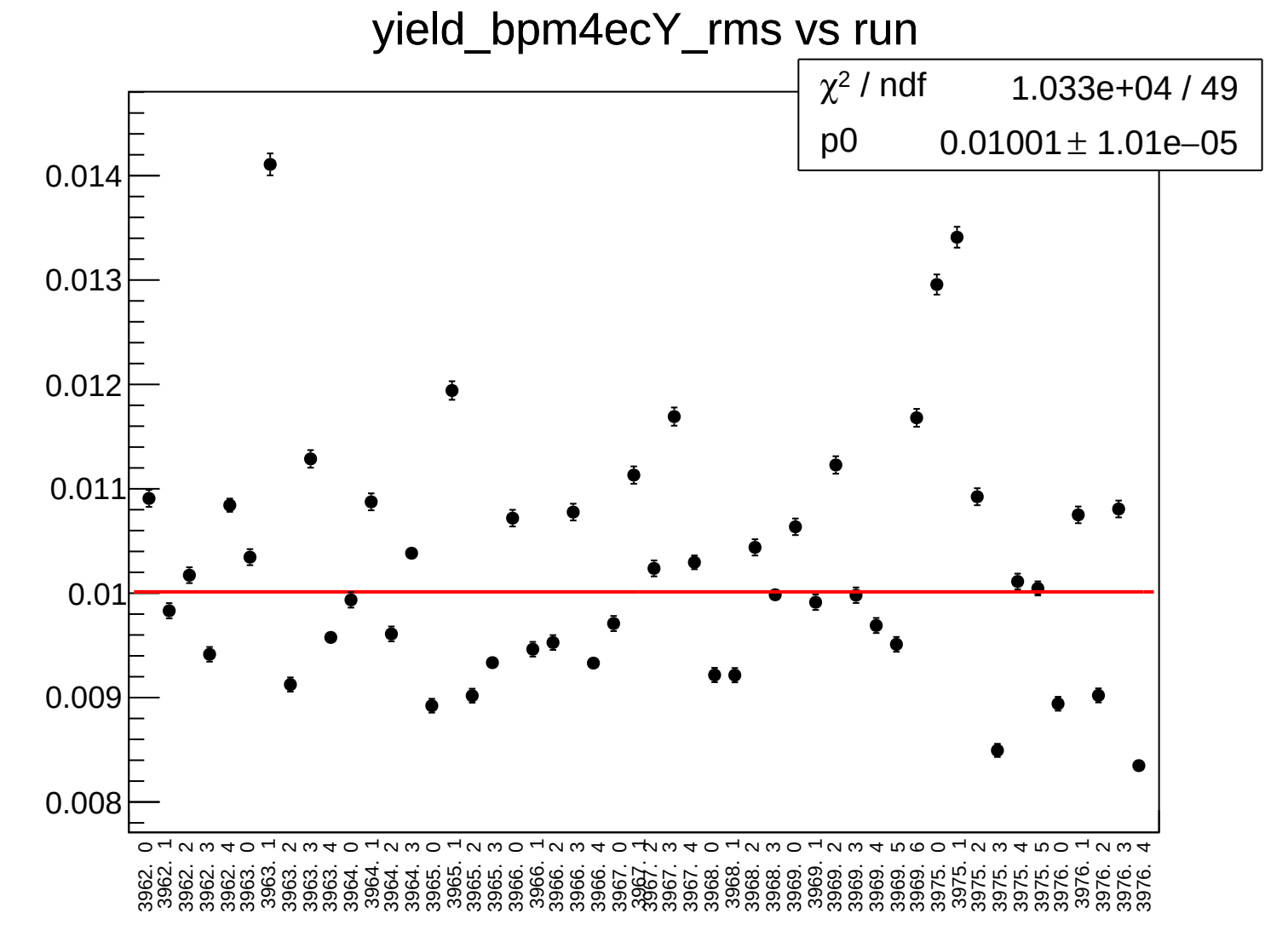

yield_bpm4ecX_mean vs run
χ² / ndf 8.206e+04 / 49
p0 0.3183 ± 3.16e−05
0.36
0.34
0.32
0.3
0.28
0.26
0.24
pull
Entries 50
Mean 73.43
Std Dev 47.64
120
100
80
60
40
20
0
−20
−40
−60
−80

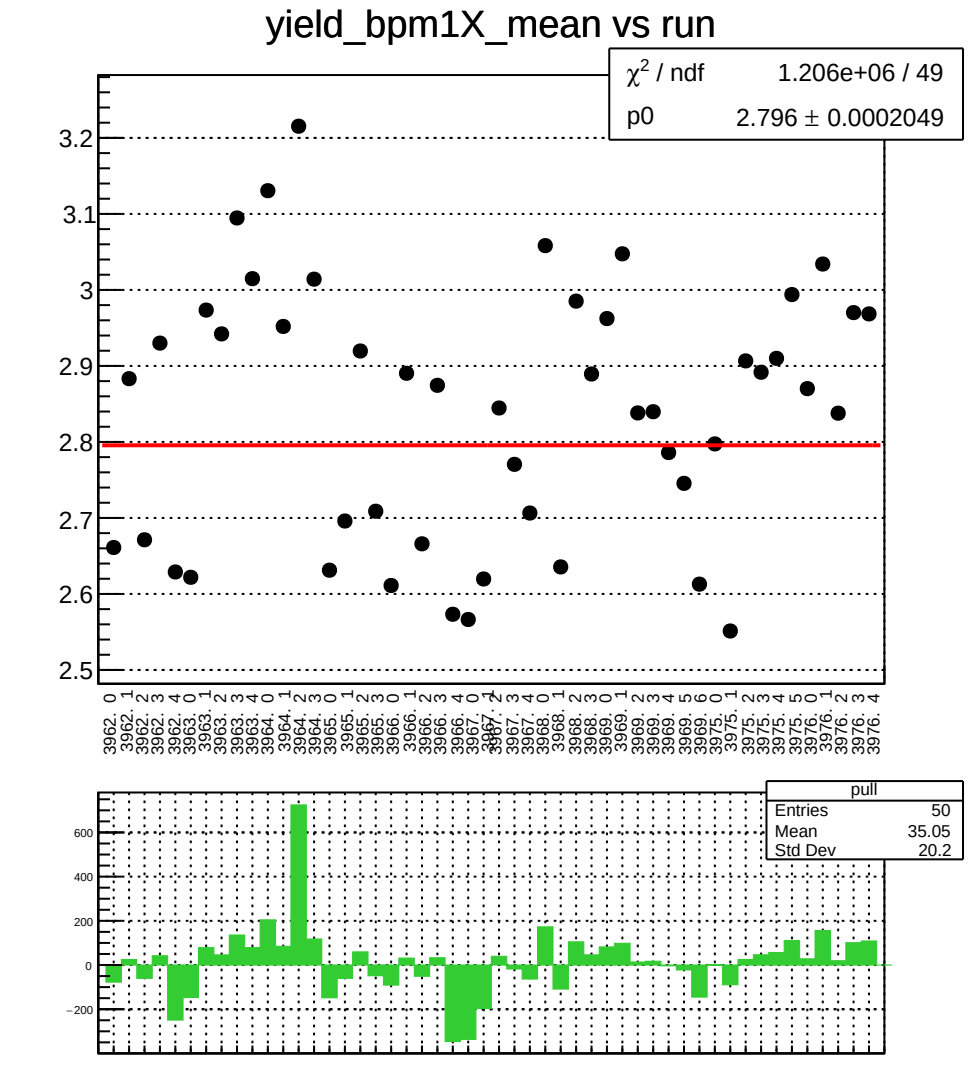

pull1D
Entries 50
Mean 1.404
Std Dev 2.993
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

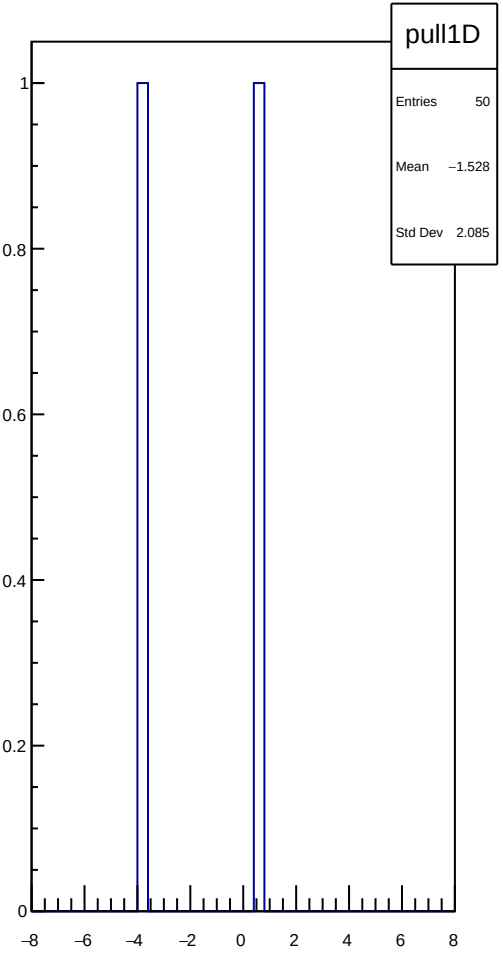

yield_bpm4ecX_rms vs run
χ² / ndf 4.979e+04 / 49
p0 0.0217 ± 2.235e−05
0.1
0.08
0.06
0.04
0.02
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

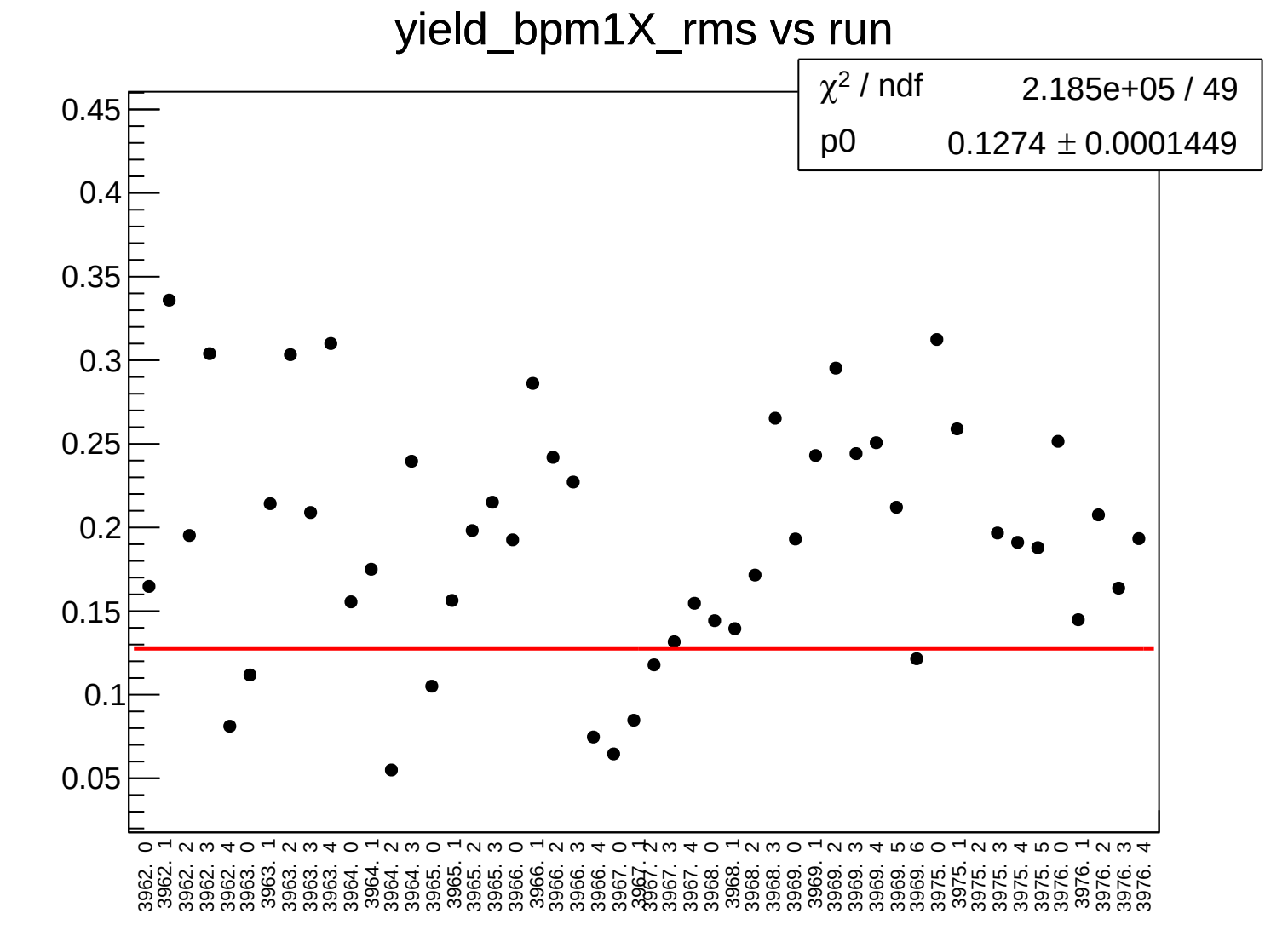

yield_bpm4ecY_mean vs run
χ² / ndf 1.974e+05 / 49
p0 1.289 ± 1.429e−05
1.3
1.295
1.29
1.285
1.28
1.275
1.27
pull
Entries 50
Mean −4.55e+04
Std Dev 4.552e+04
100
50
0
−50
−100
−150

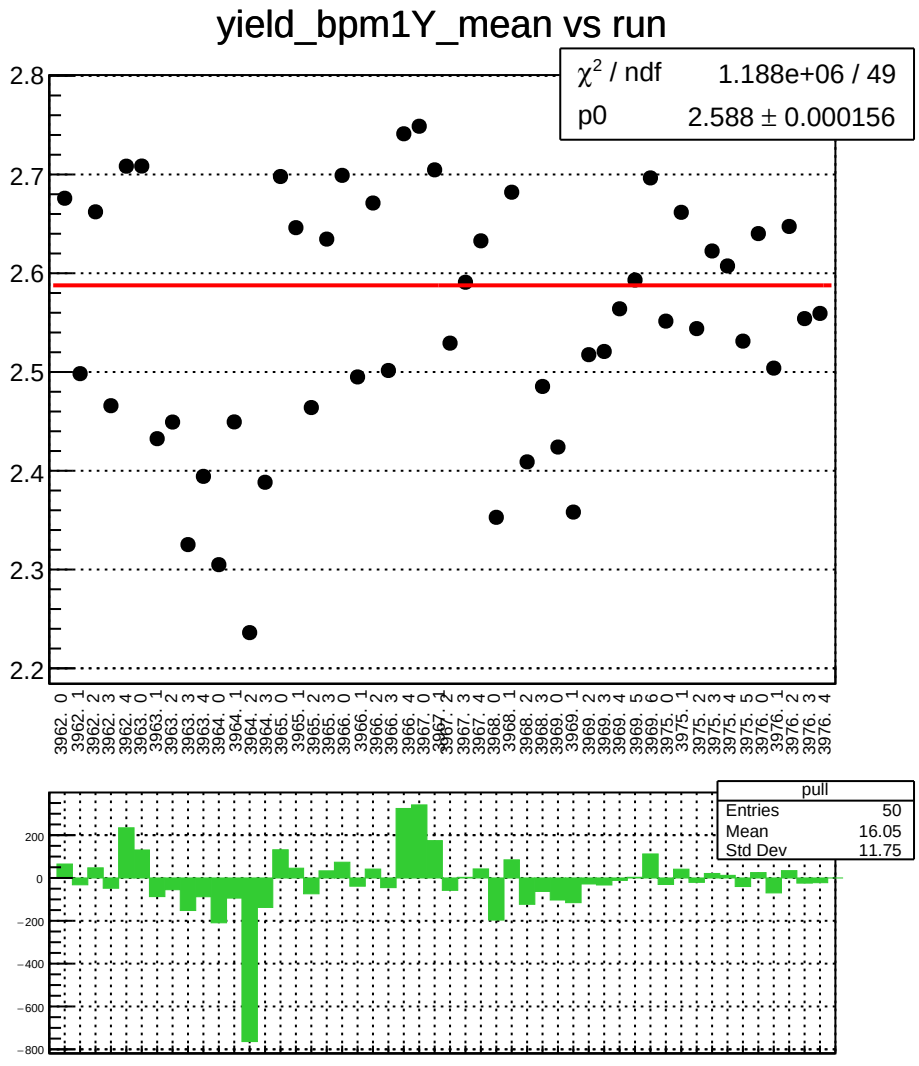

pull1D
Entries 50
Mean 1.799
Std Dev 0.5561
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

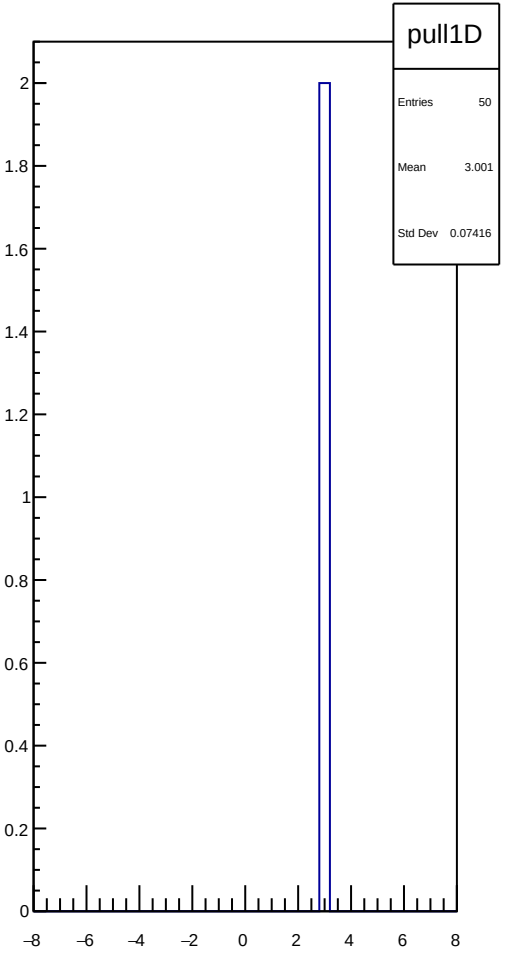

yield_bpm4ecY_rms vs run
χ² / ndf 1.033e+04 / 49
p0 0.01001 ± 1.01e−05
0.014
0.013
0.012
0.011
0.01
0.009
0.008
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

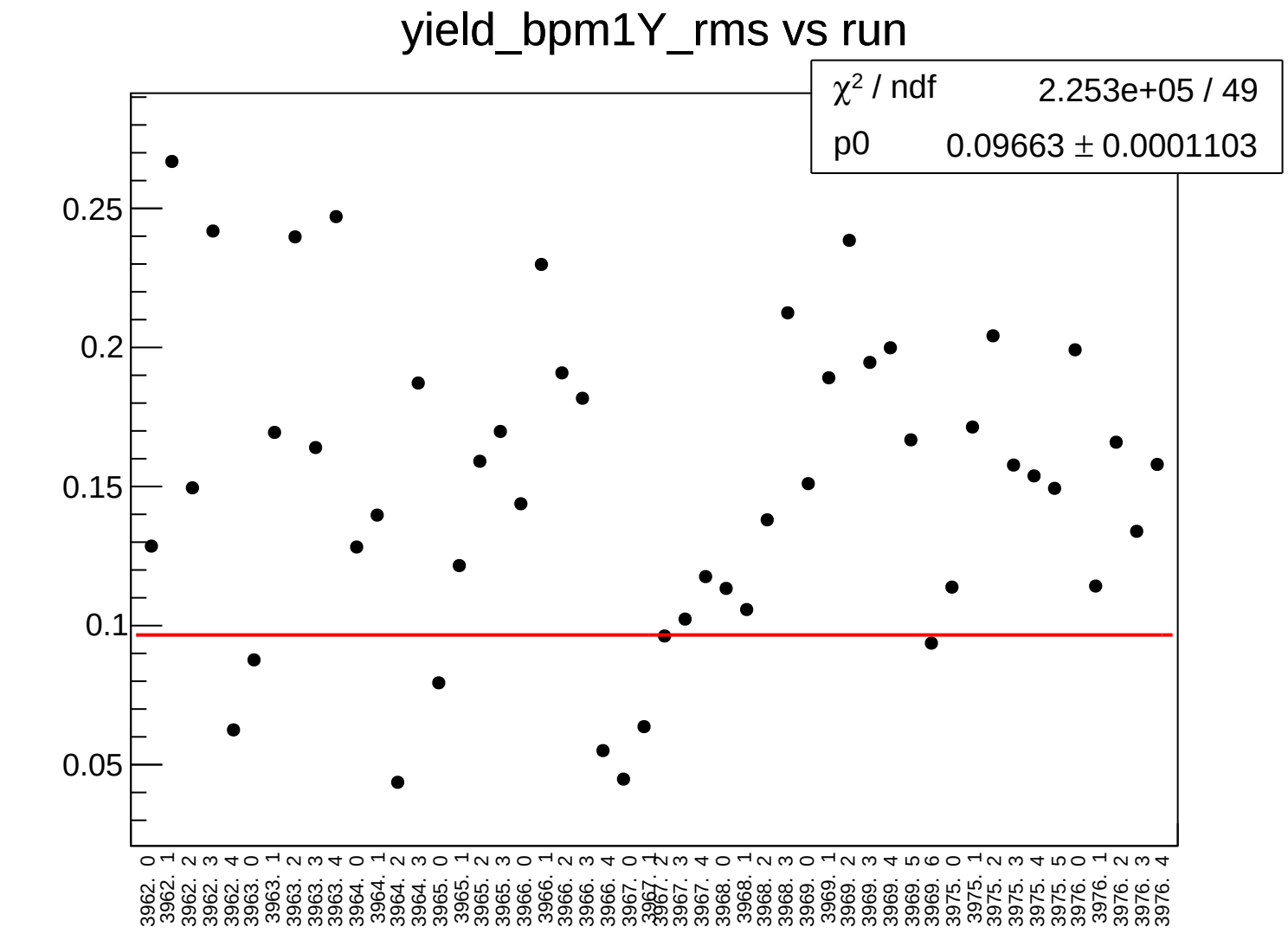

yield_bpm1X_mean vs run
χ² / ndf 1.206e+06 / 49
p0 2.796 ± 0.0002049
pull
Entries 50
Mean 35.05
Std Dev 20.2

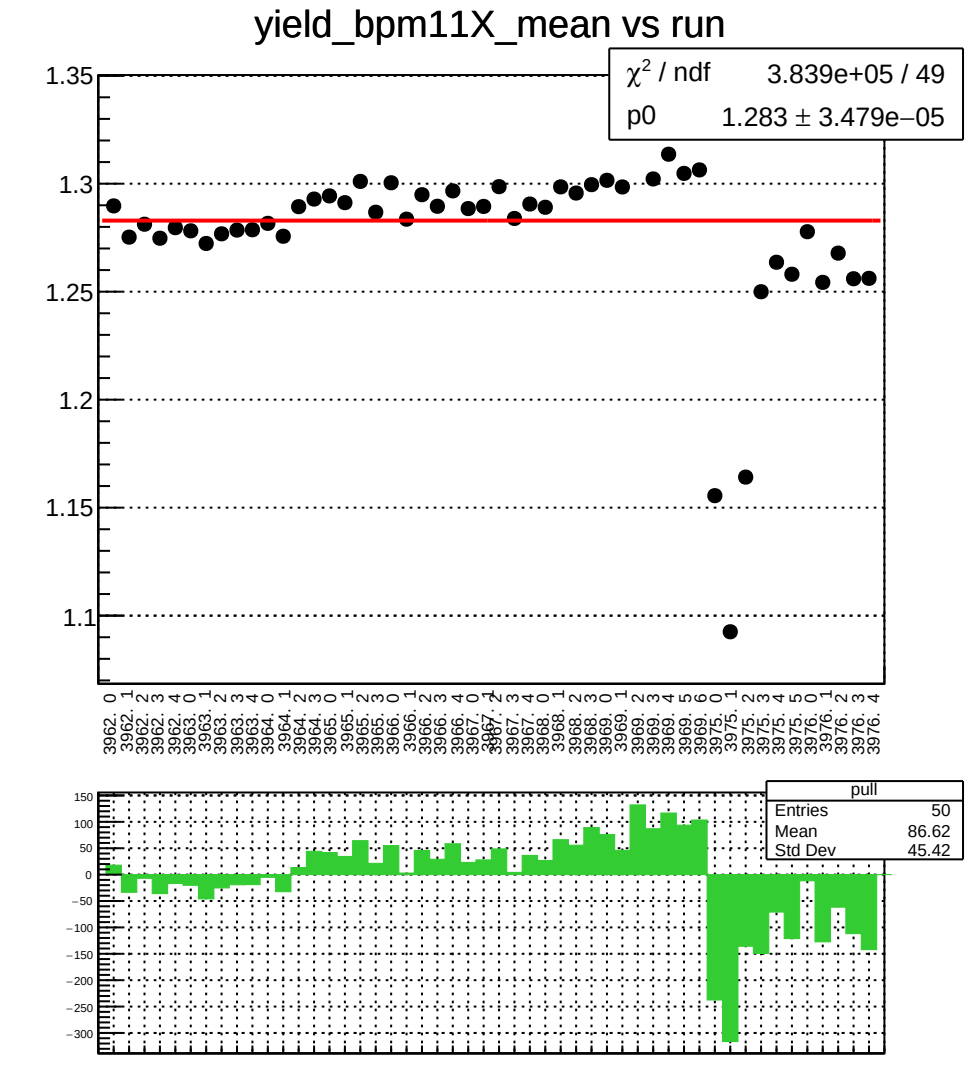

pull1D
Entries 50
Mean −1.528
Std Dev 2.085

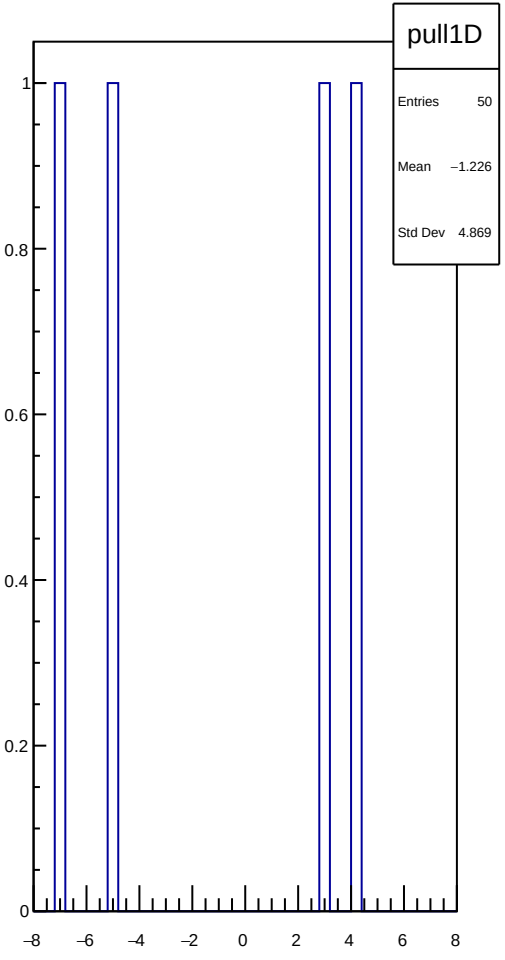

yield_bpm1X_rms vs run
χ² / ndf 2.185e+05 / 49
p0 0.1274 ± 0.0001449
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

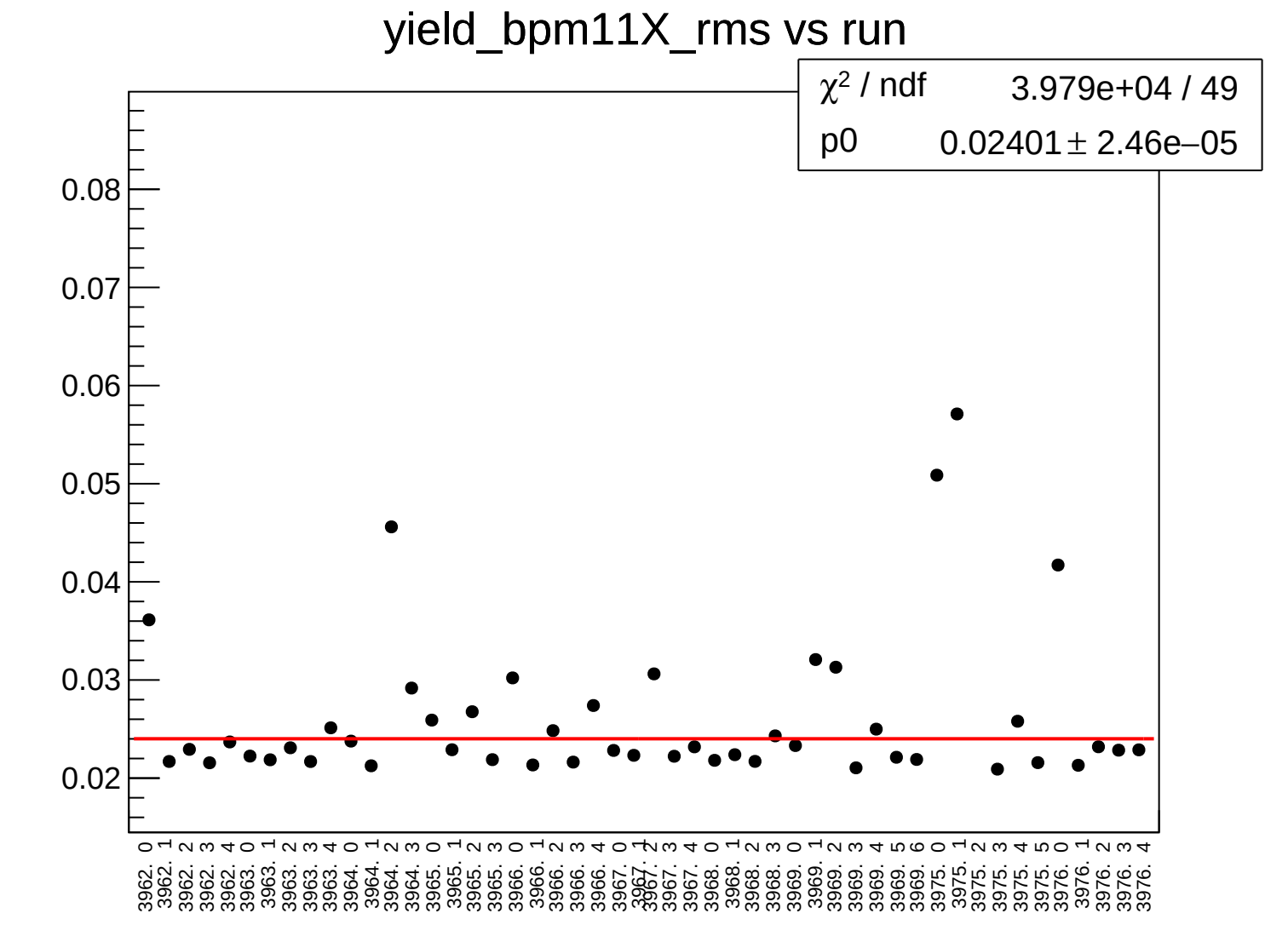

yield_bpm1Y_mean vs run
χ² / ndf 1.188e+06 / 49
p0 2.588 ± 0.000156
pull
Entries 50
Mean 16.05
Std Dev 11.75

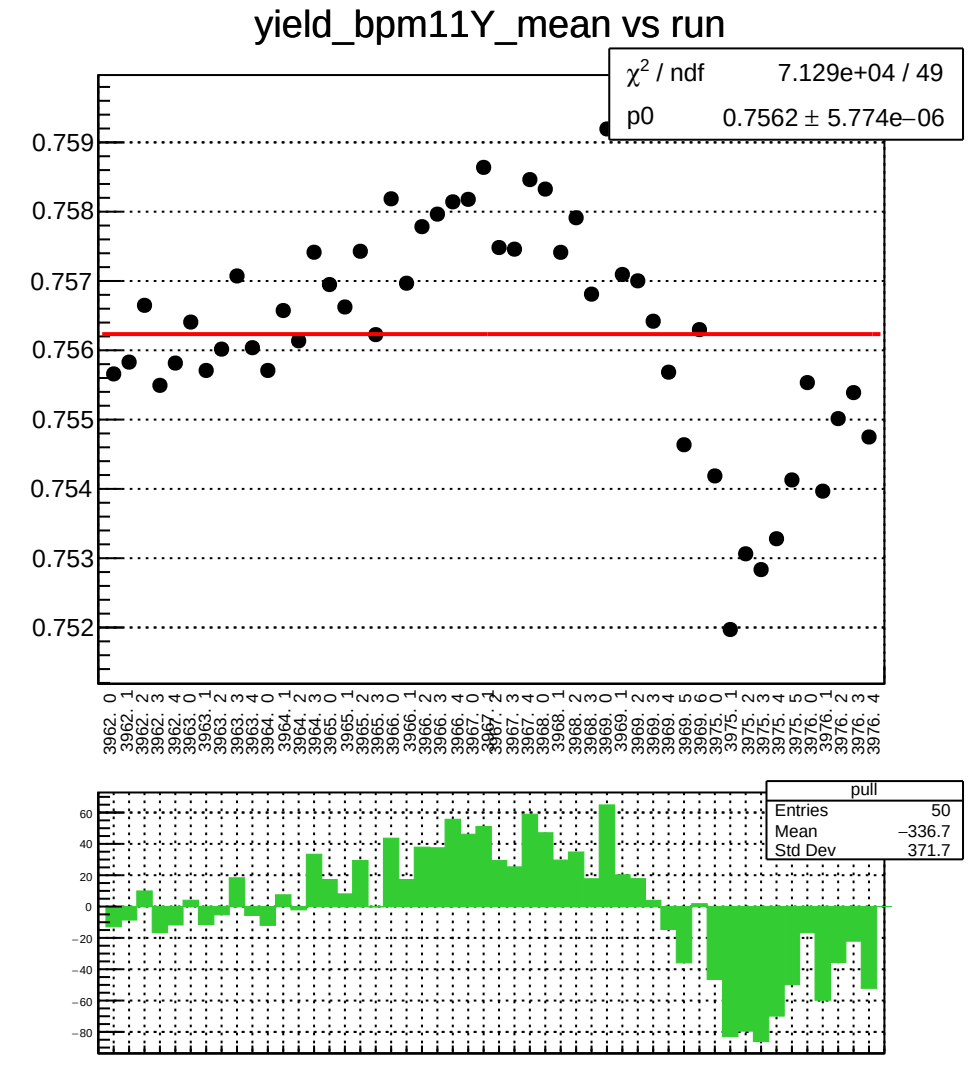

pull1D
Entries 50
Mean 3.001
Std Dev 0.07416

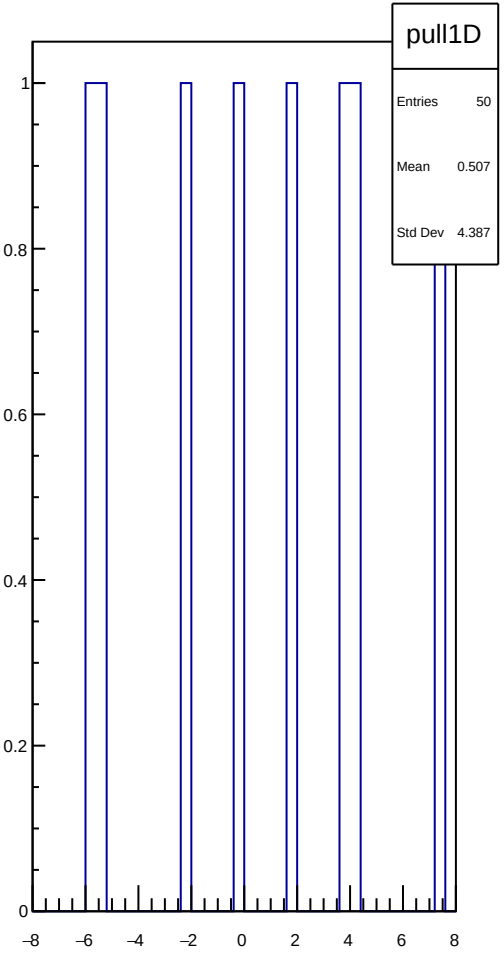

yield_bpm1Y_rms vs run
χ² / ndf 2.253e+05 / 49
p0 0.09663 ± 0.0001103
0.25
0.2
0.15
0.1
0.05
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

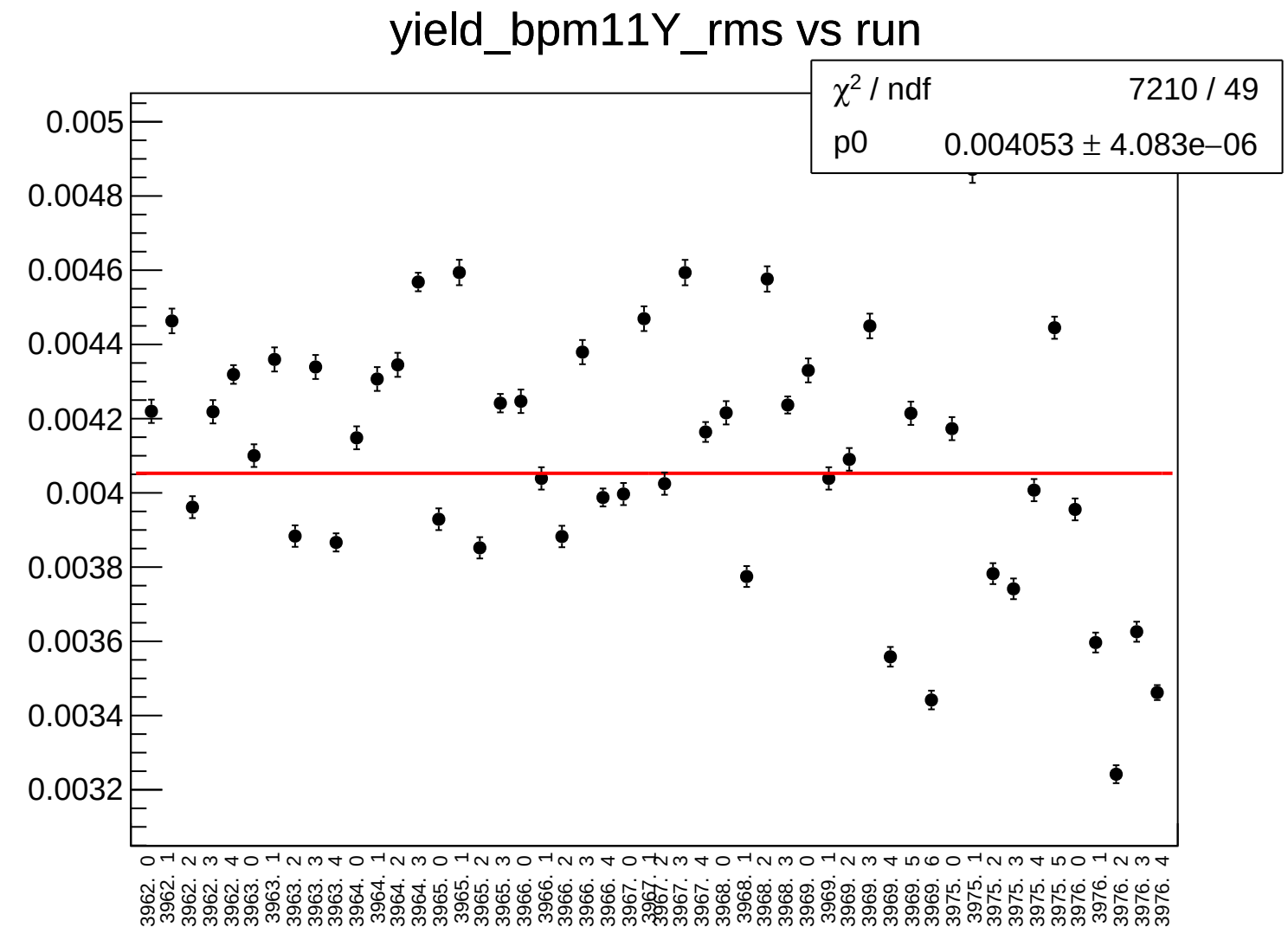

yield_bpm11X_mean vs run
χ² / ndf 3.839e+05 / 49
p0 1.283 ± 3.479e−05
1.35
1.3
1.25
1.2
1.15
1.1
pull
Entries 50
Mean 86.62
Std Dev 45.42
150
100
50
0
−50
−100
−150
−200
−250
−300

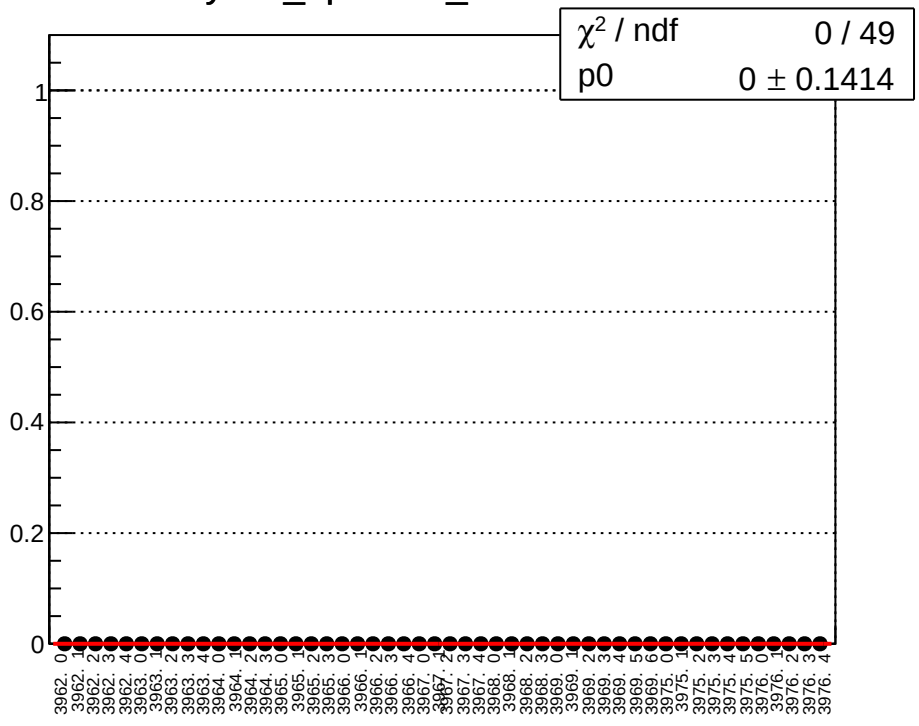

pull1D
Entries 50
Mean −1.226
Std Dev 4.869
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

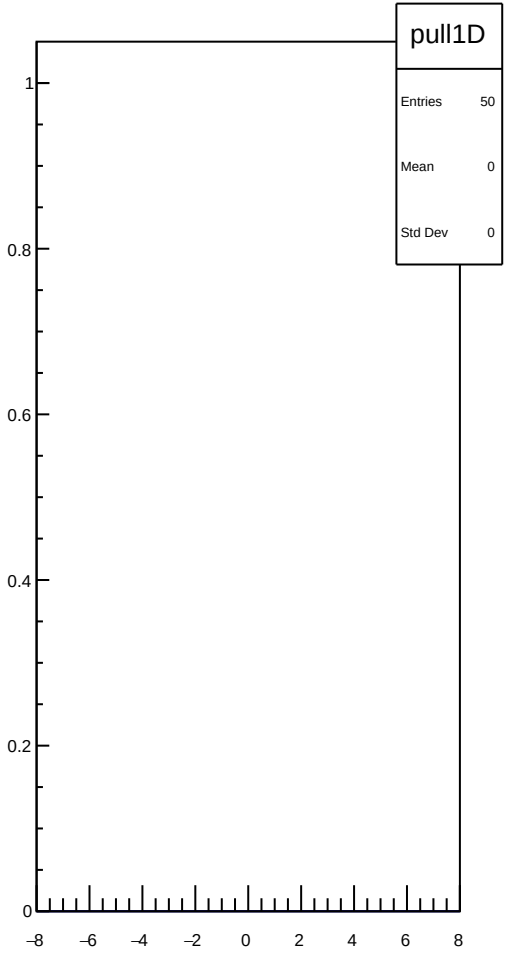

yield_bpm11X_rms vs run
χ² / ndf 3.979e+04 / 49
p0 0.02401 ± 2.46e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

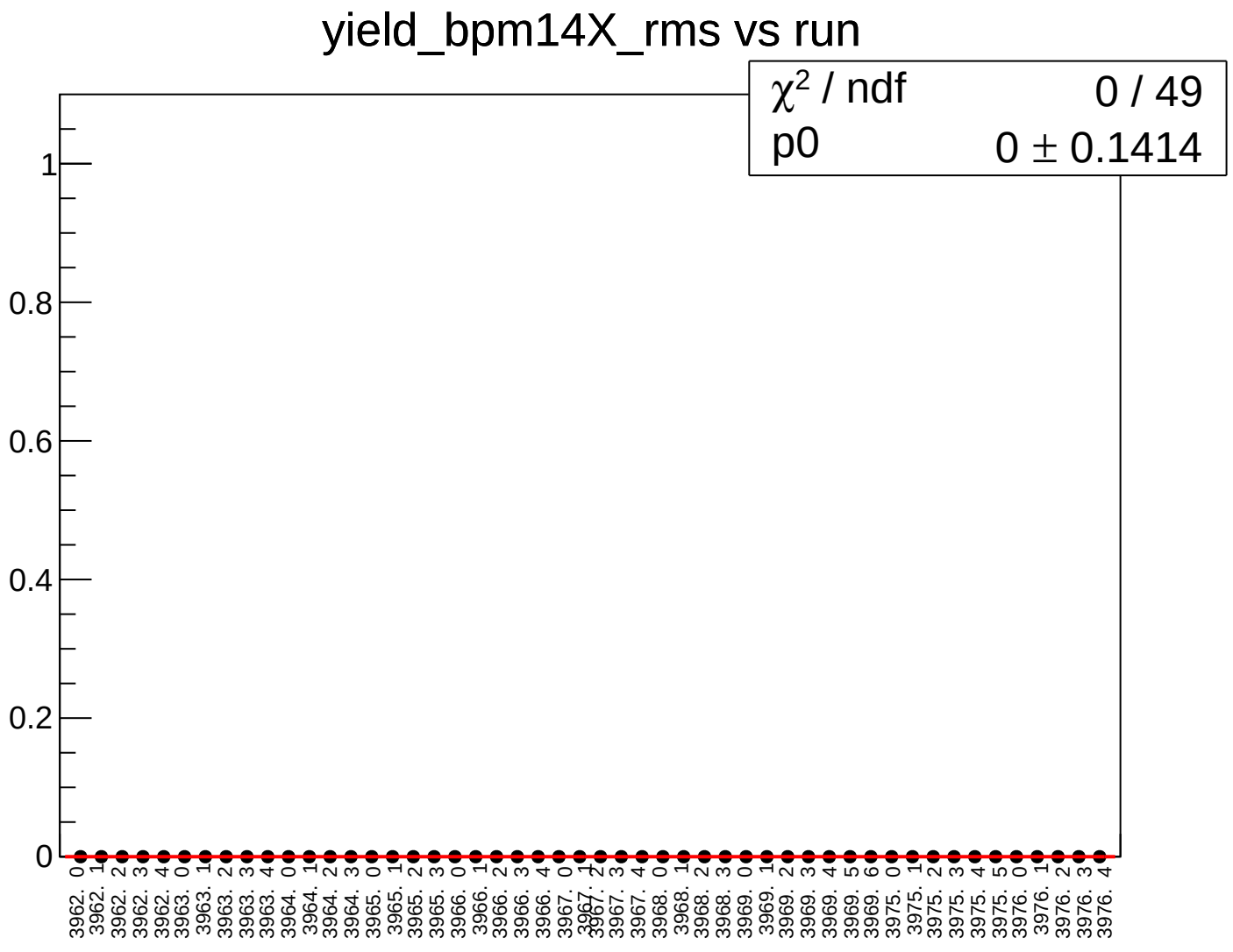

yield_bpm11Y_mean vs run
χ² / ndf 7.129e+04 / 49
p0 0.7562 ± 5.774e−06
0.759
0.758
0.757
0.756
0.755
0.754
0.753
0.752
pull
Entries 50
Mean −336.7
Std Dev 371.7
60
40
20
0
−20
−40
−60
−80

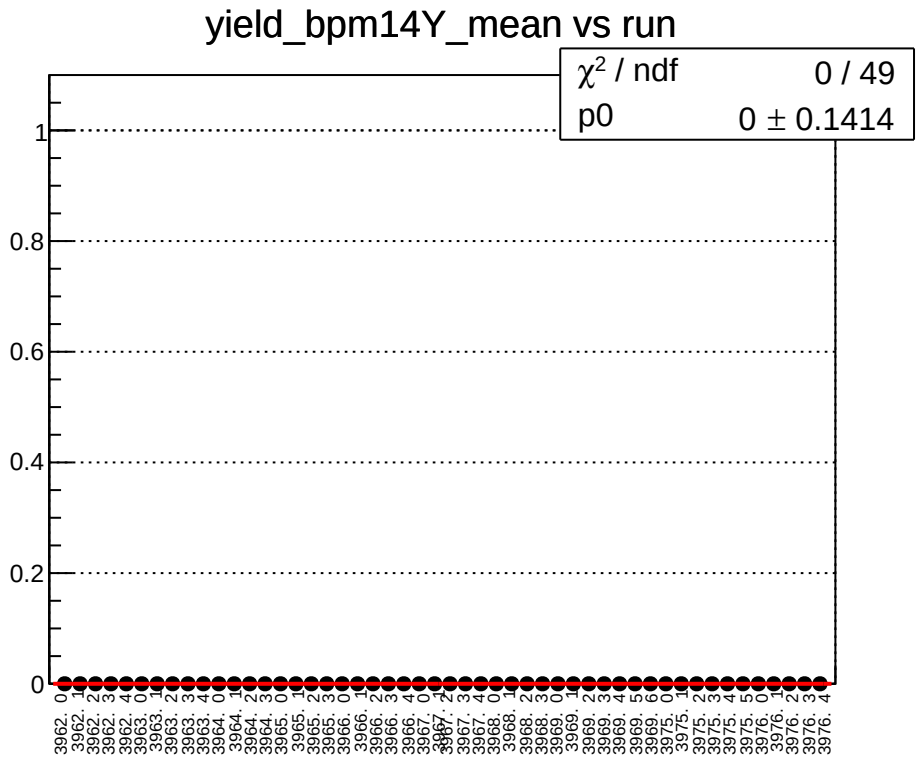

pull1D
Entries 50
Mean 0.507
Std Dev 4.387
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

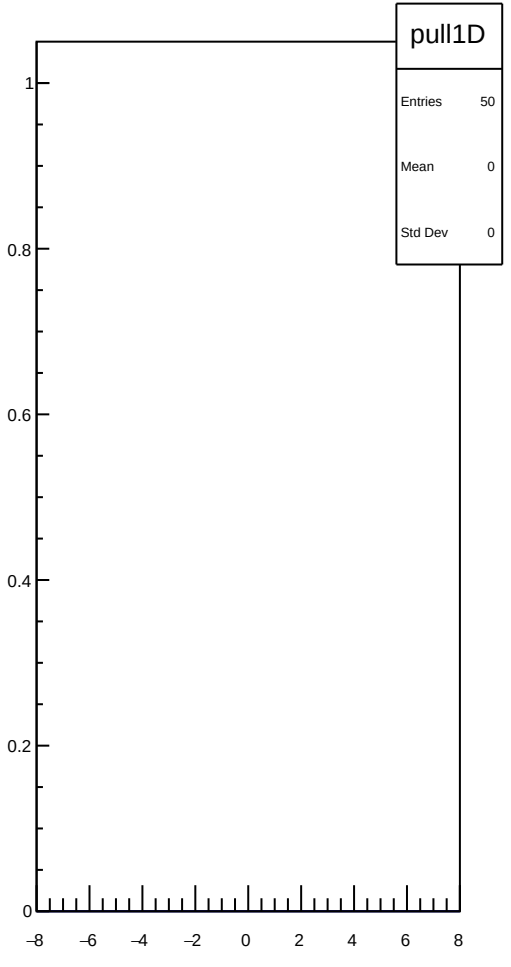

yield_bpm11Y_rms vs run
χ² / ndf 7210 / 49
p0 0.004053 ± 4.083e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

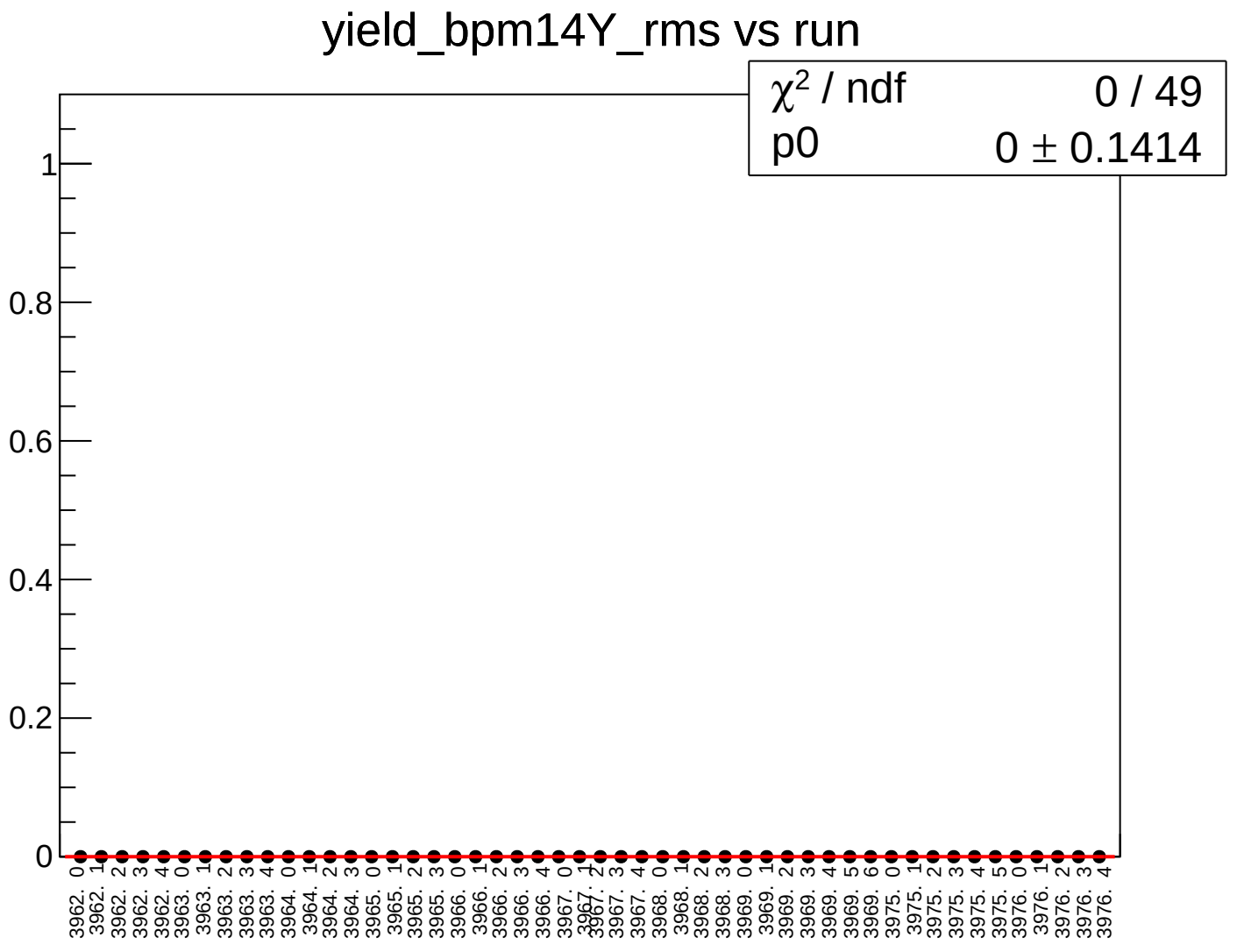

yield_bpm14X_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

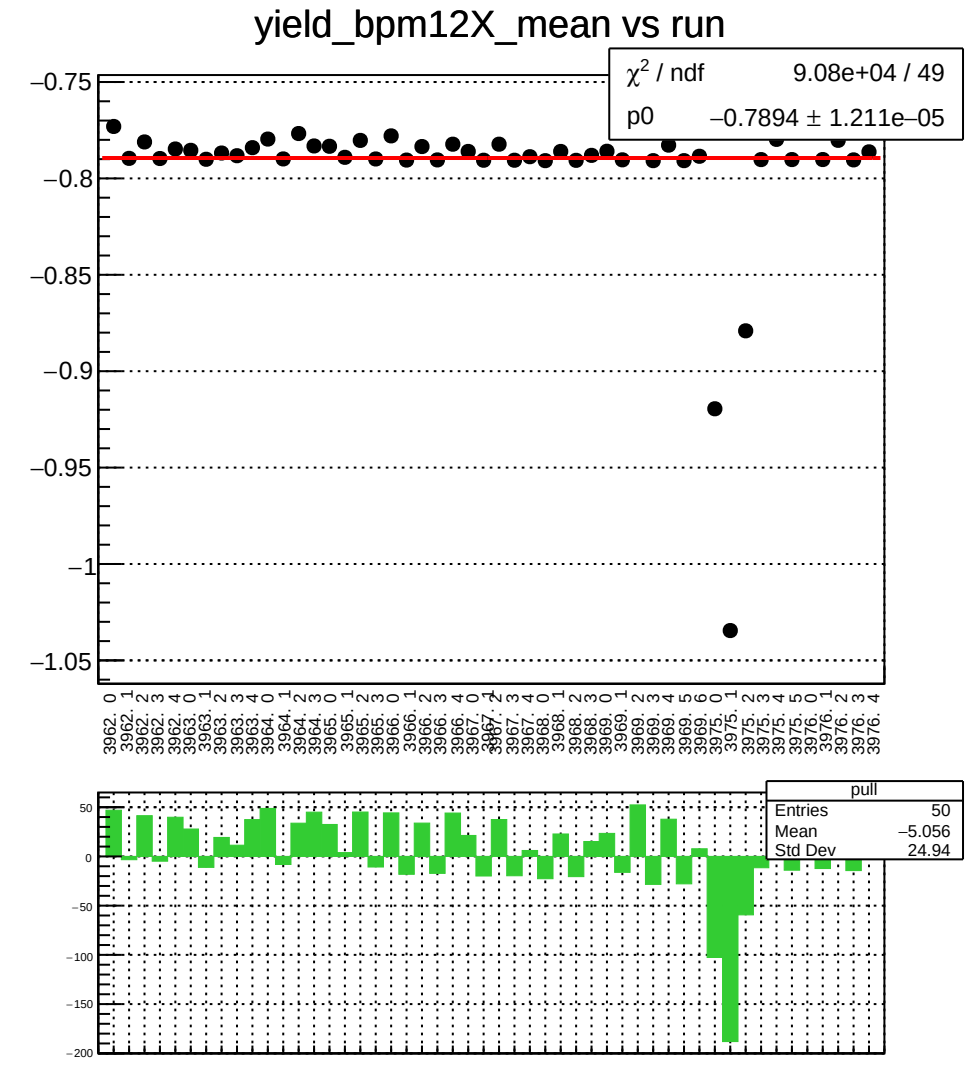

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

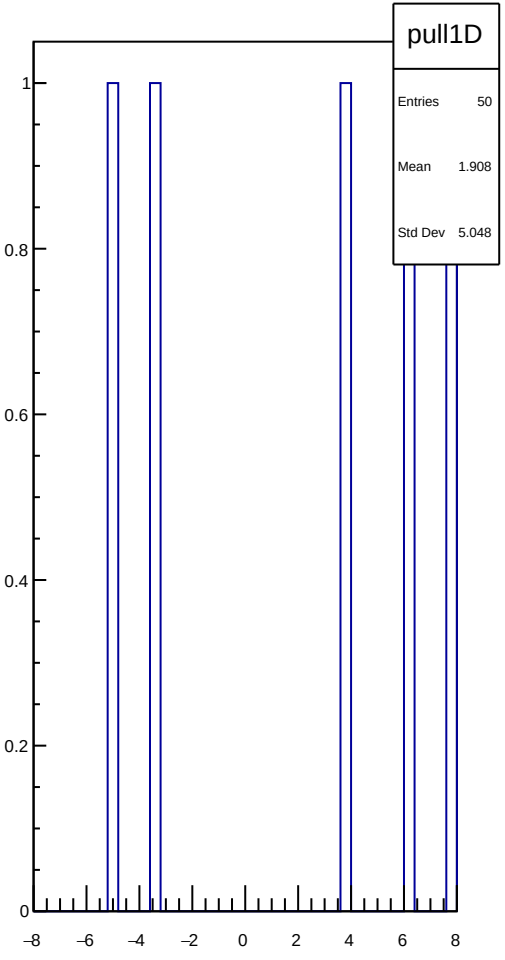

yield_bpm14X_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

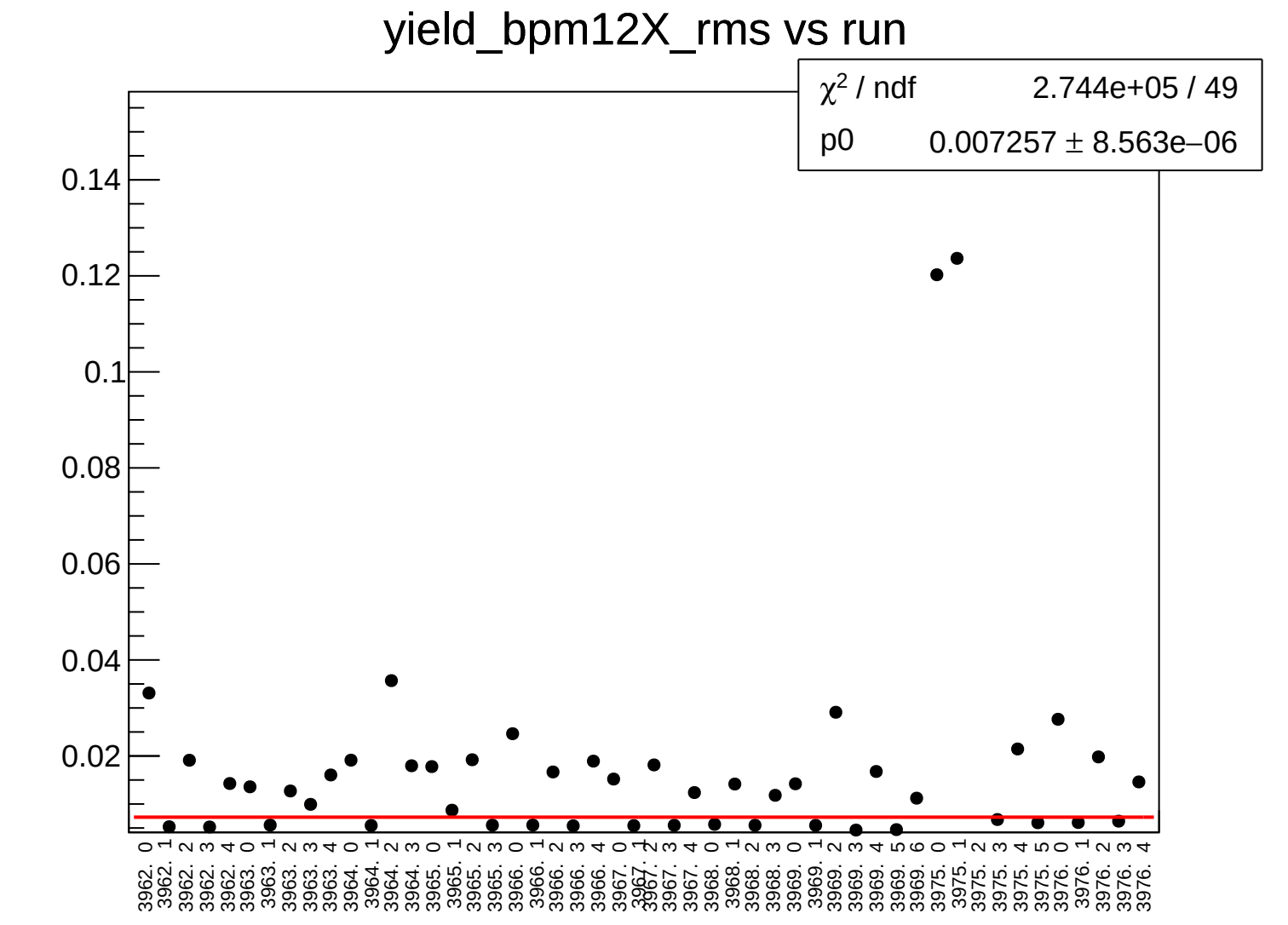

yield_bpm14Y_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0

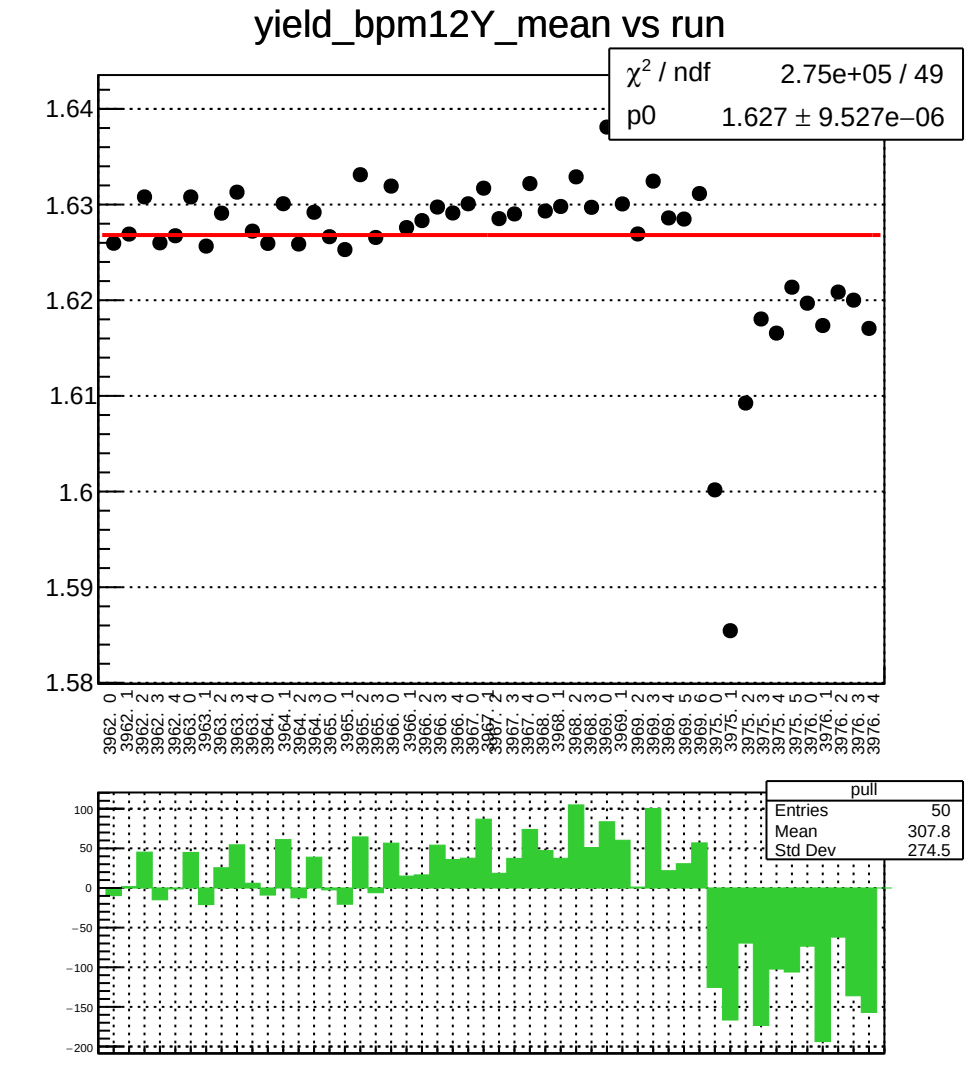

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

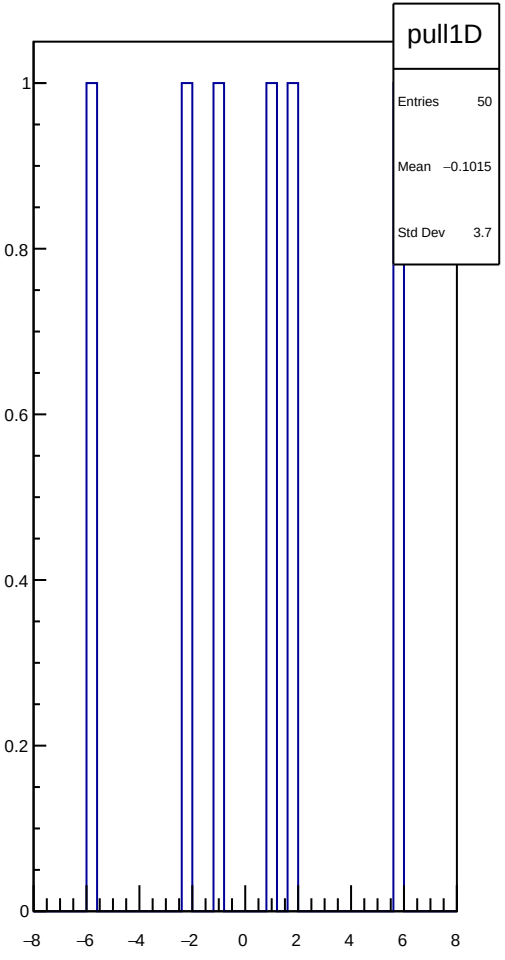

yield_bpm14Y_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

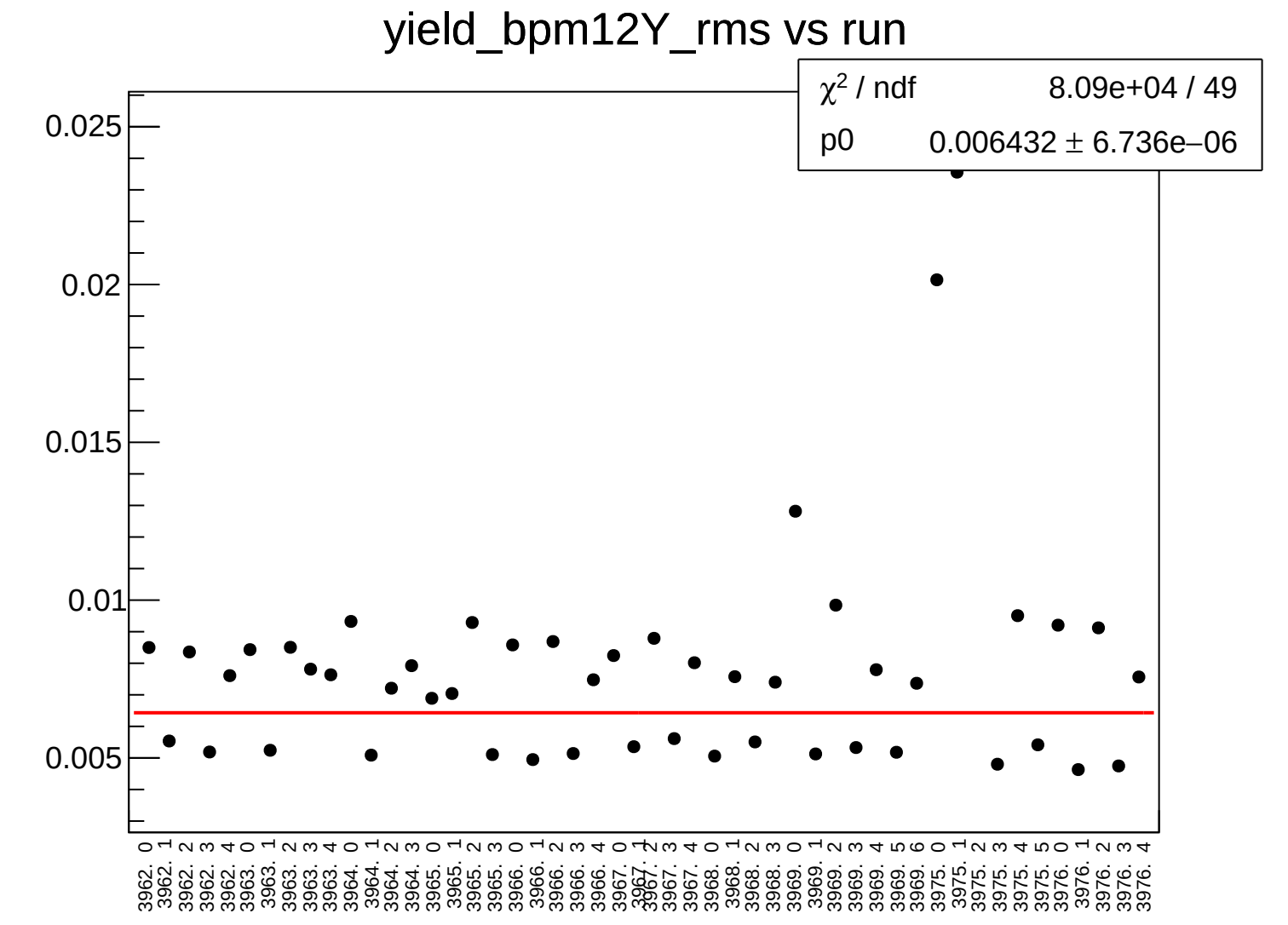

yield_bpm12X_mean vs run
χ² / ndf 9.08e+04 / 49
p0 −0.7894 ± 1.211e−05
pull
Entries 50
Mean −5.056
Std Dev 24.94

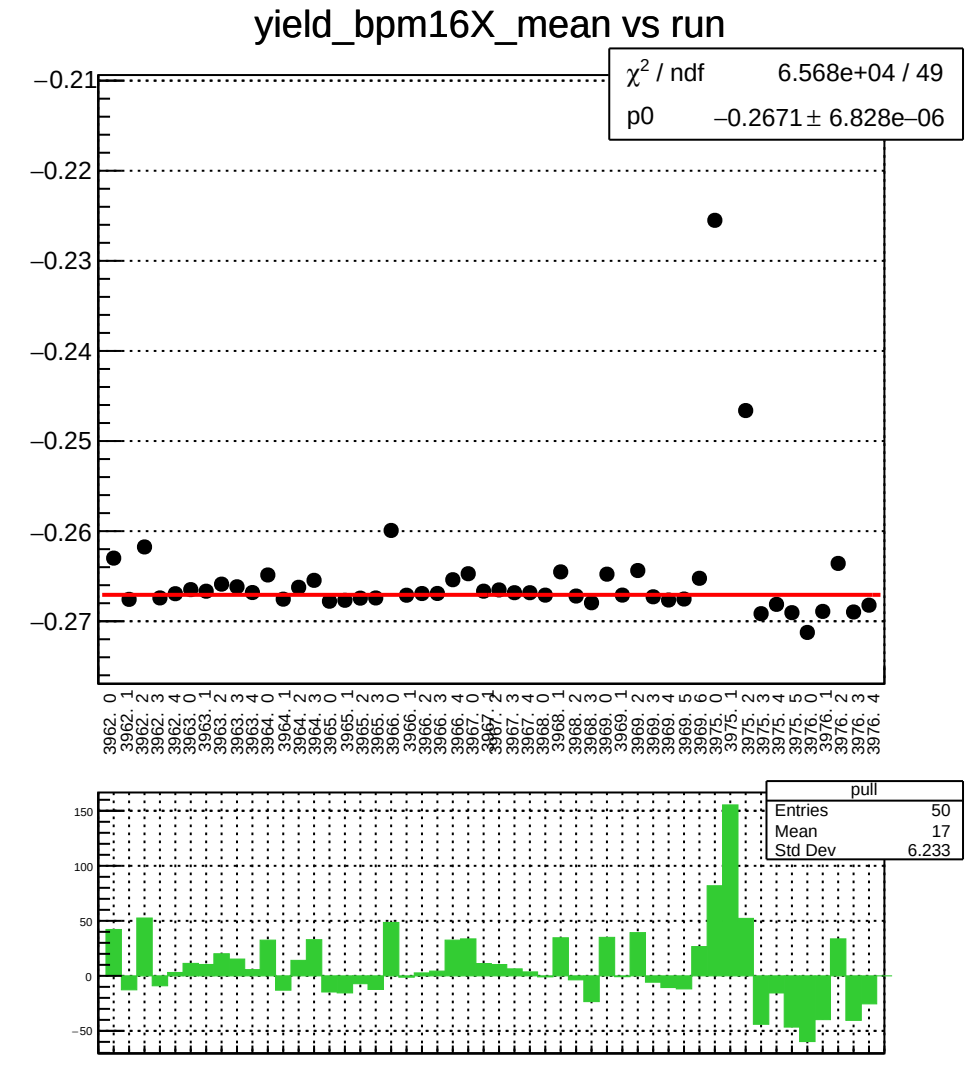

pull1D
Entries 50
Mean 1.908
Std Dev 5.048

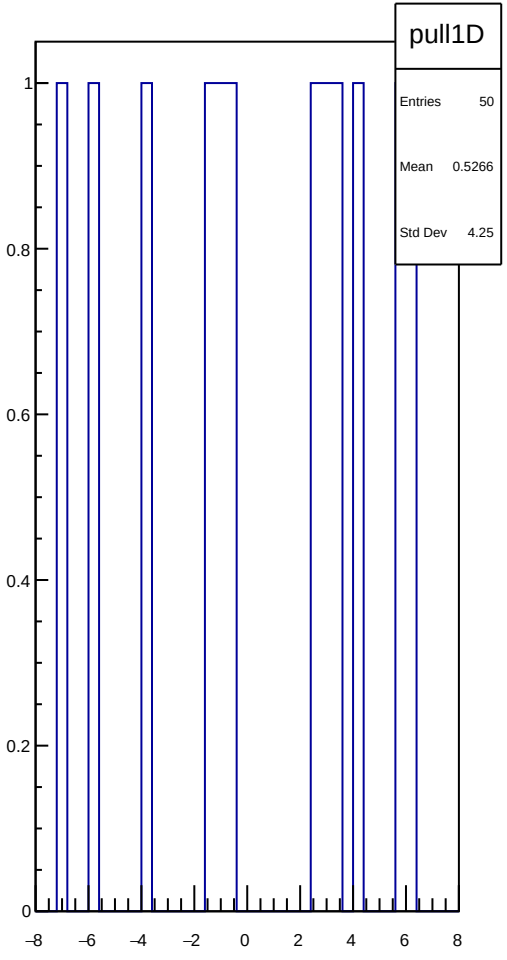

yield_bpm12X_rms vs run
χ² / ndf 2.744e+05 / 49
p0 0.007257 ± 8.563e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

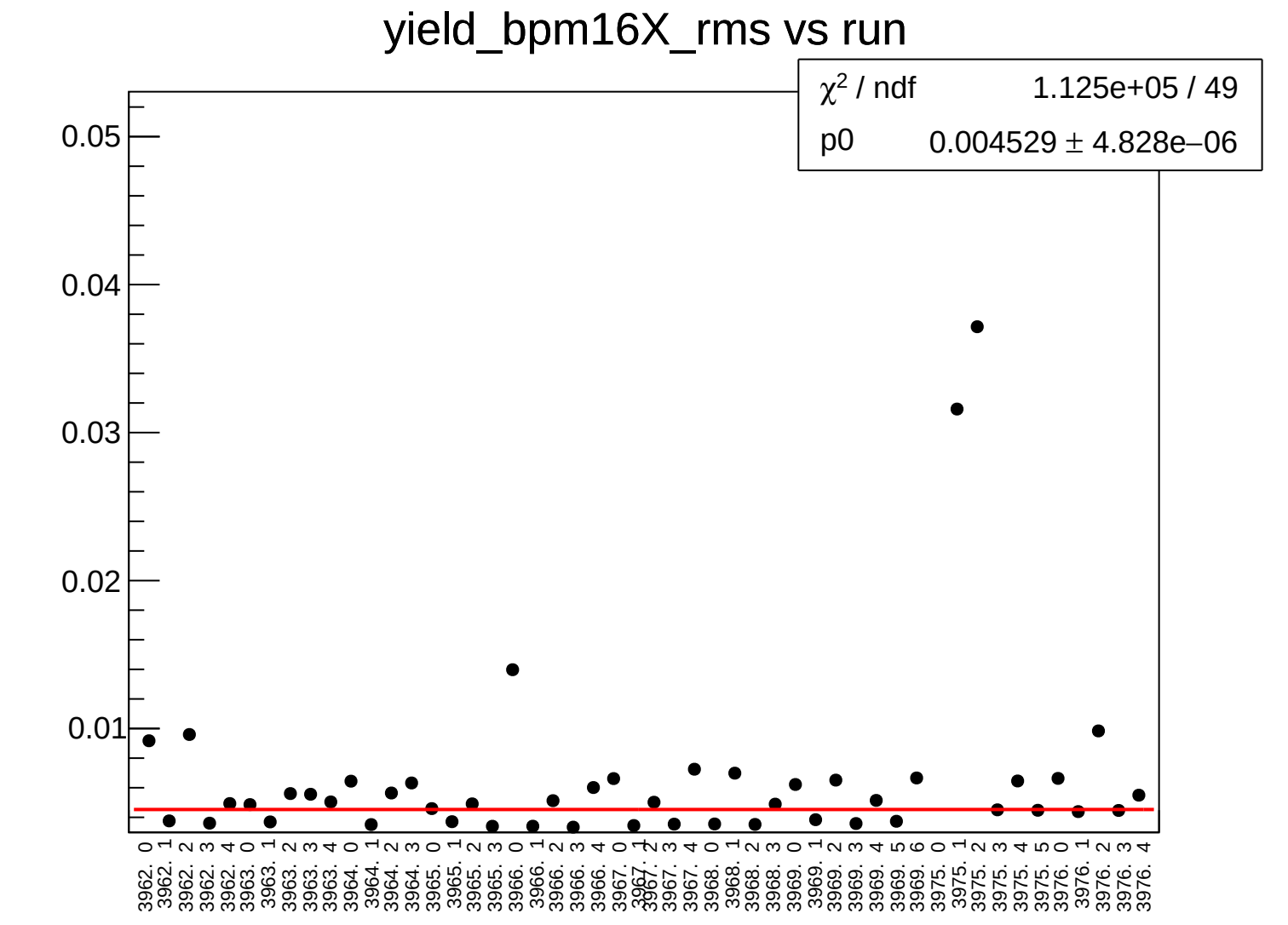

yield_bpm12Y_mean vs run
χ² / ndf 2.75e+05 / 49
p0 1.627 ± 9.527e−06
1.64
1.63
1.62
1.61
1.6
1.59
1.58
pull
Entries 50
Mean 307.8
Std Dev 274.5
100
50
0
−50
−100
−150
−200

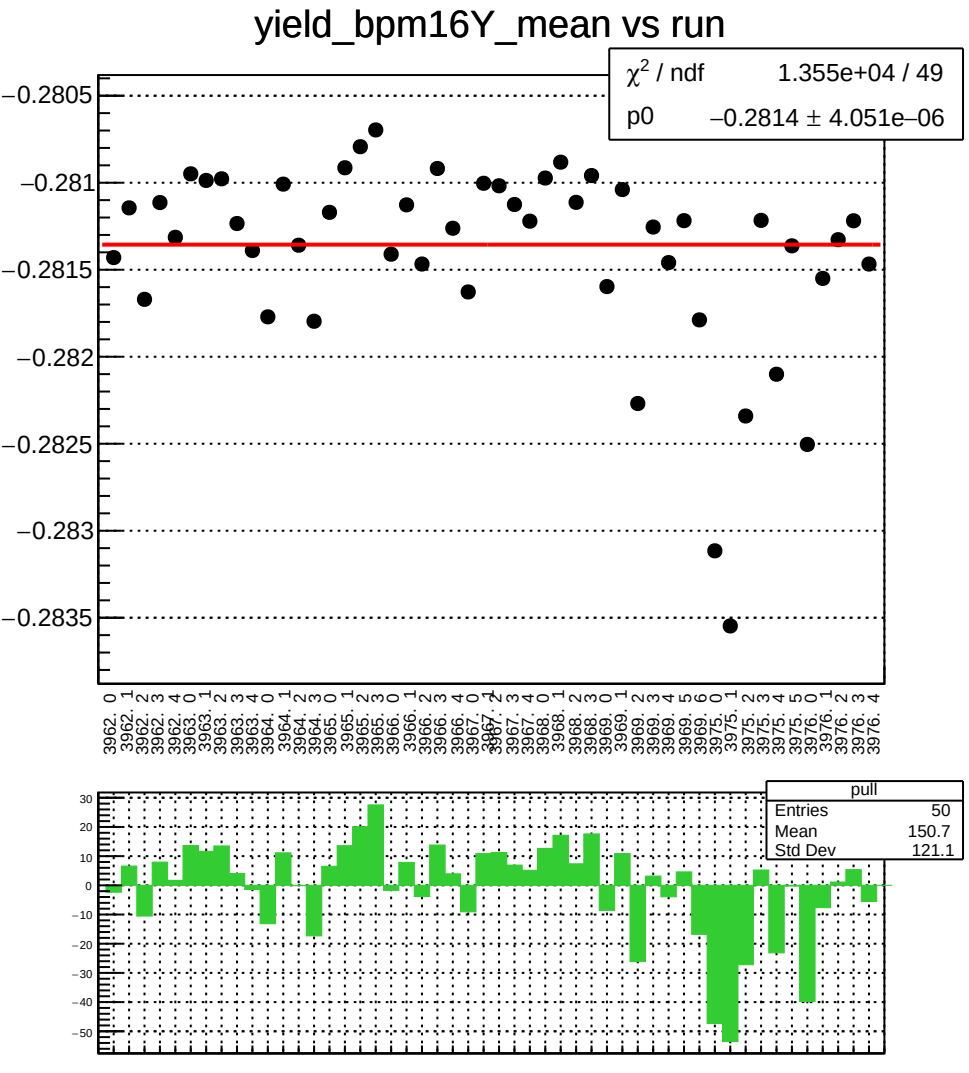

pull1D
Entries 50
Mean −0.1015
Std Dev 3.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

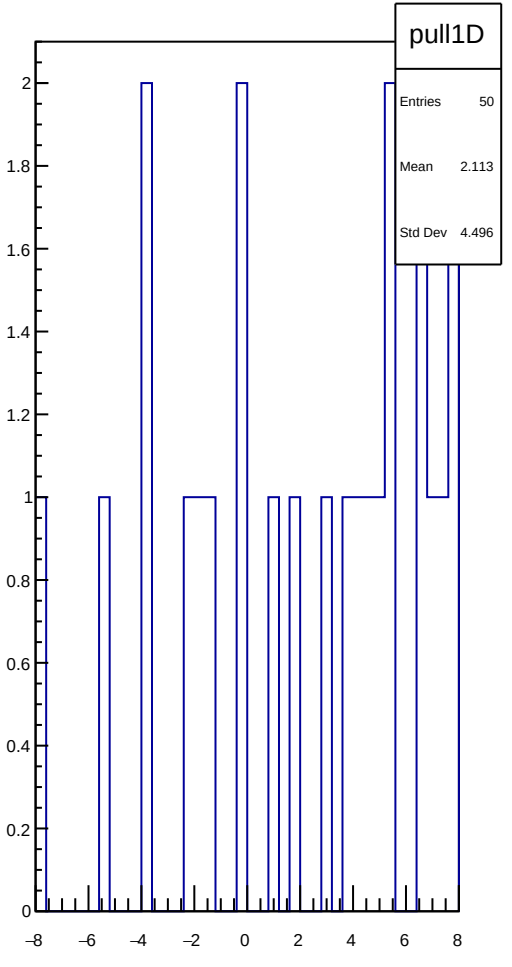

yield_bpm12Y_rms vs run
χ² / ndf 8.09e+04 / 49
p0 0.006432 ± 6.736e−06
0.025
0.02
0.015
0.01
0.005
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

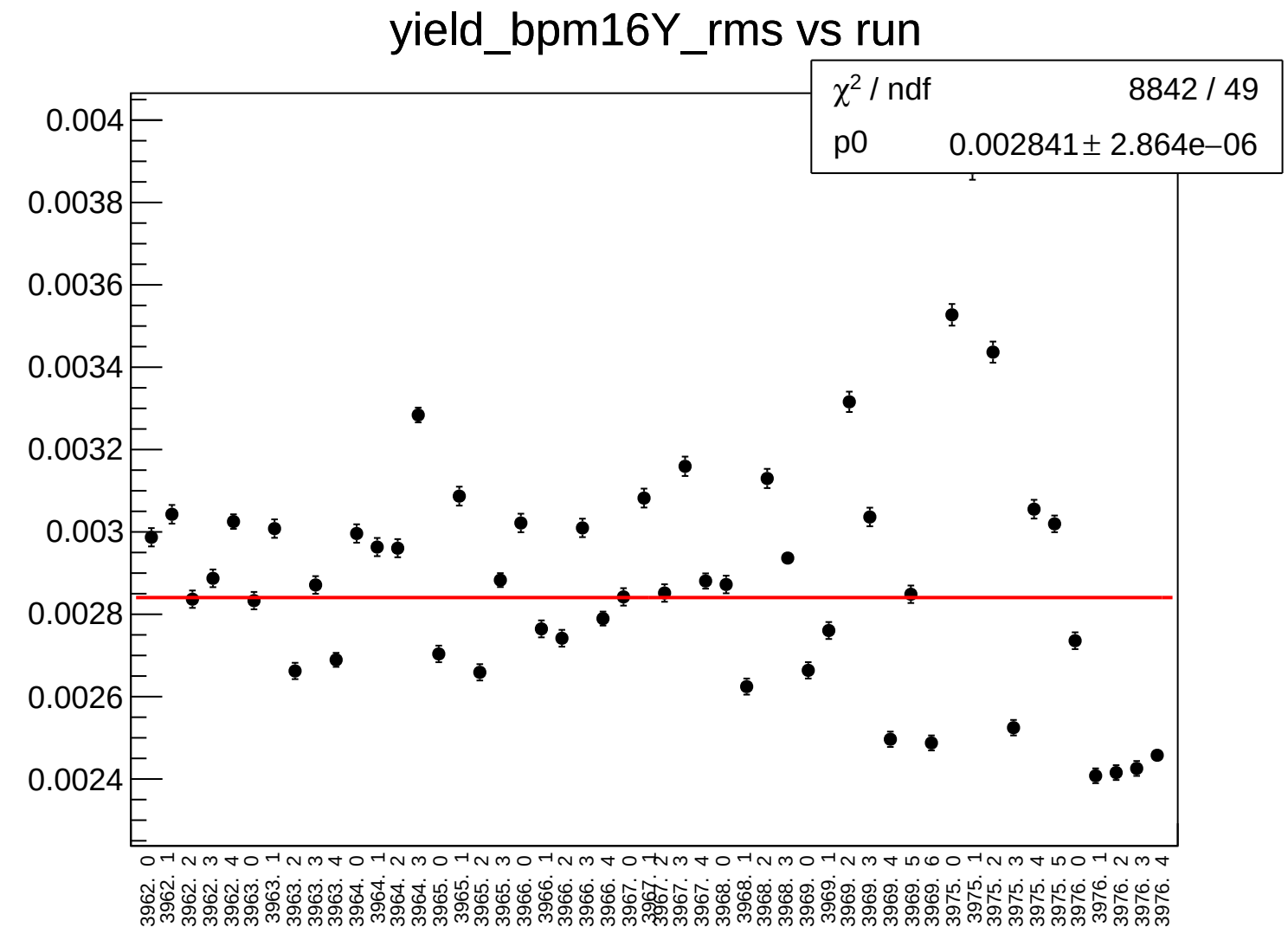

yield_bpm16X_mean vs run
χ² / ndf 6.568e+04 / 49
p0 −0.2671 ± 6.828e−06
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
pull
Entries 50
Mean 17
Std Dev 6.233
150
100
50
0
−50

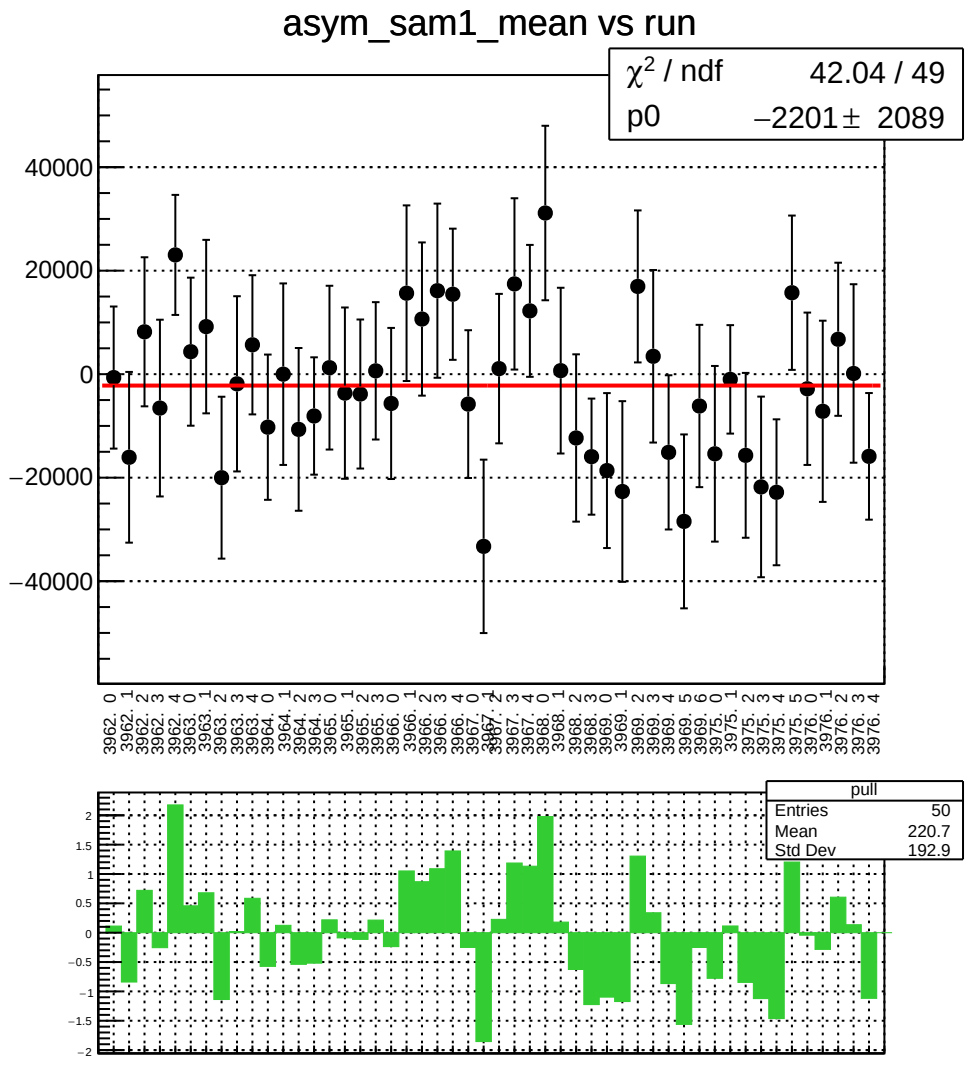

pull1D
Entries 50
Mean 0.5266
Std Dev 4.25
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

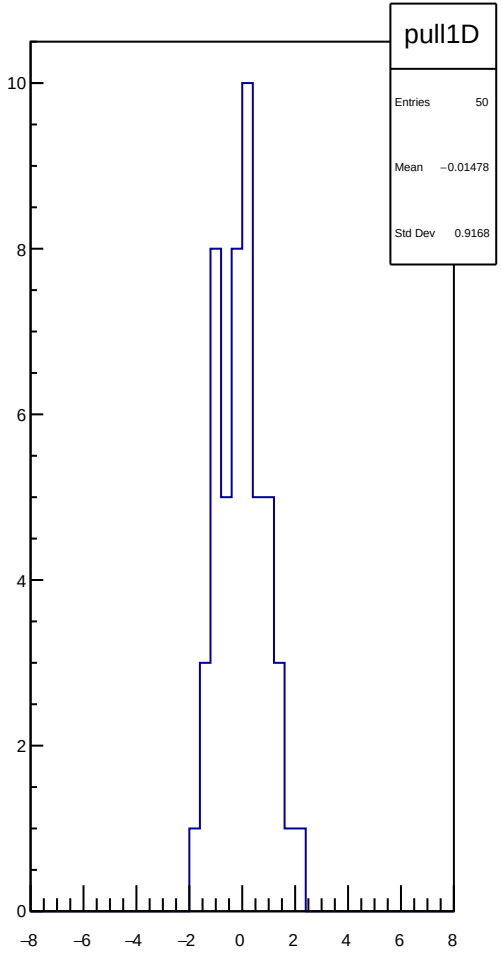

yield_bpm16X_rms vs run
χ² / ndf 1.125e+05 / 49
p0 0.004529 ± 4.828e−06
0.05
0.04
0.03
0.02
0.01
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

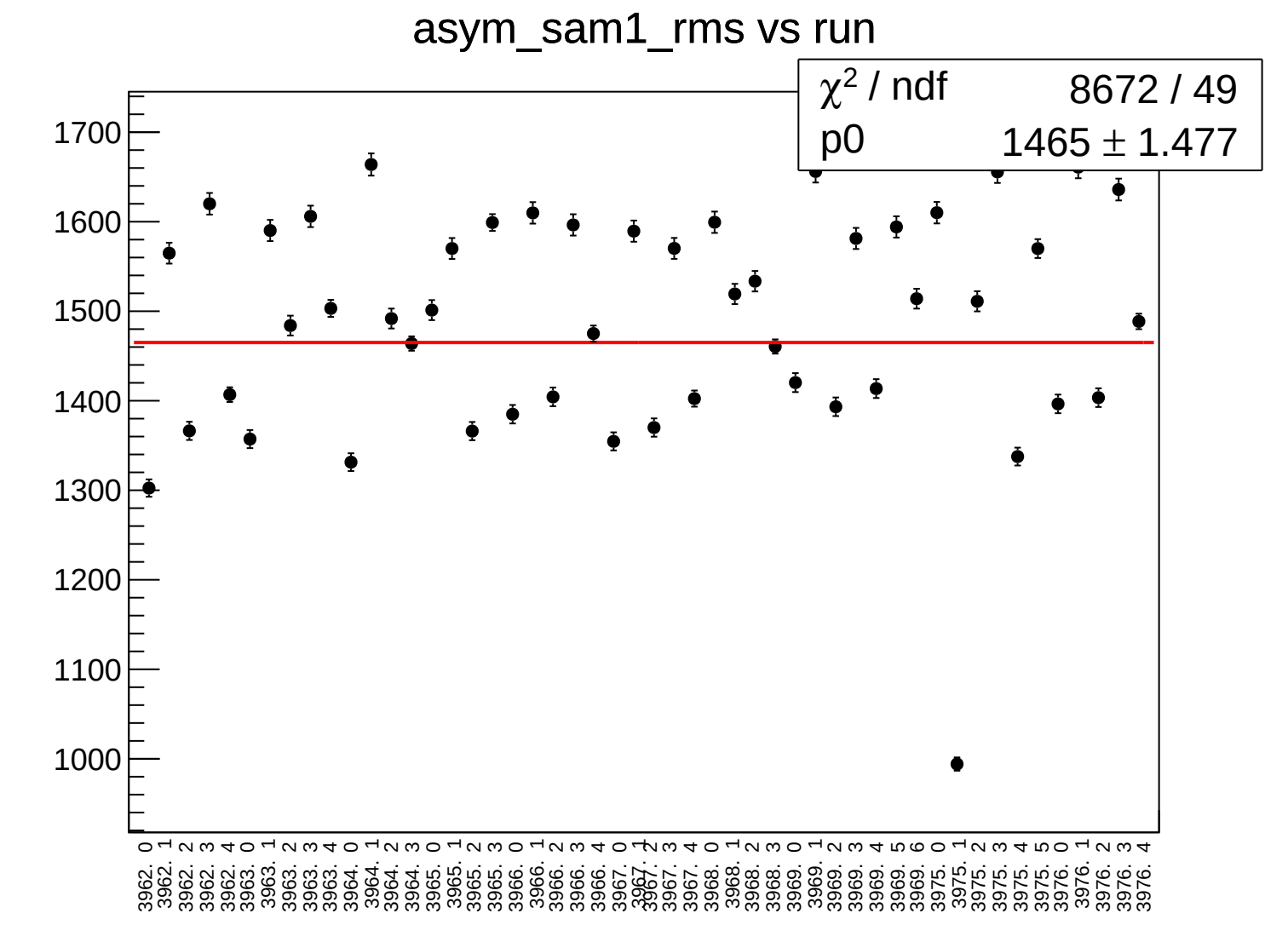

yield_bpm16Y_mean vs run
χ² / ndf 1.355e+04 / 49
p0 −0.2814 ± 4.051e−06
−0.2805
−0.281
−0.2815
−0.282
−0.2825
−0.283
−0.2835
pull
Entries 50
Mean 150.7
Std Dev 121.1

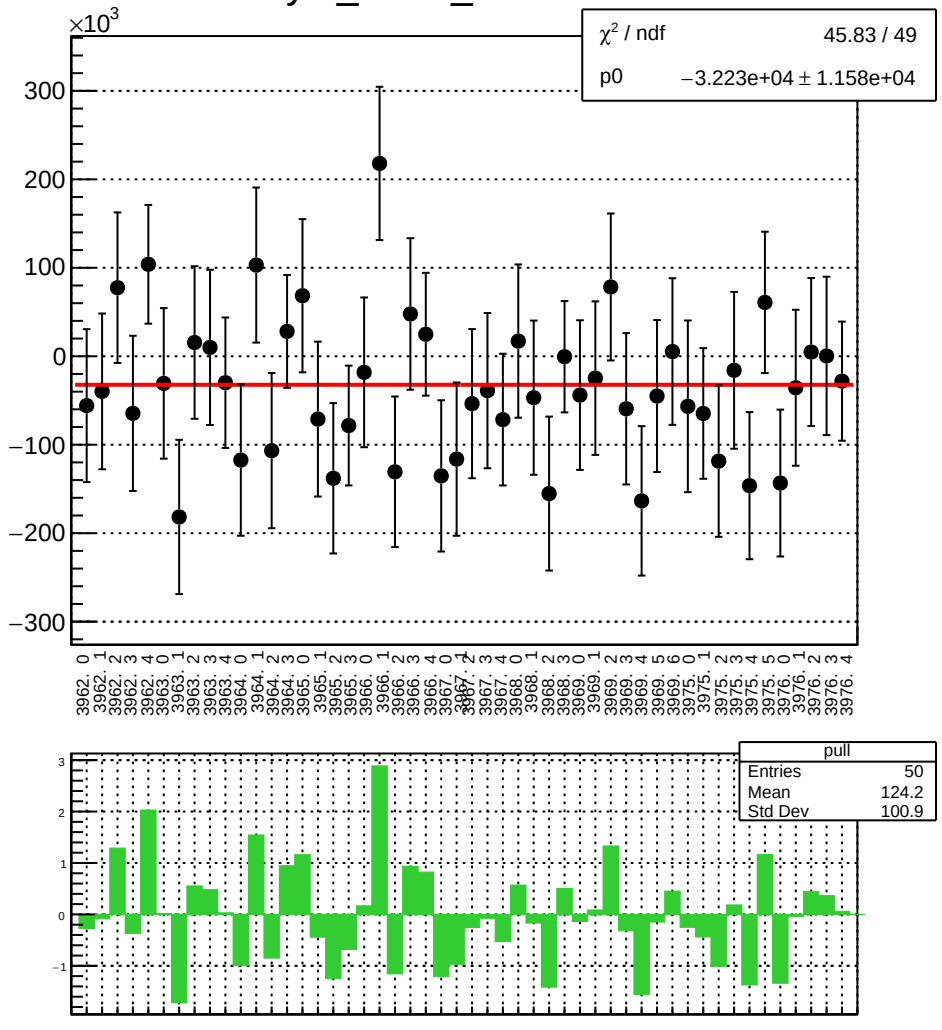

pull1D
Entries 50
Mean 2.113
Std Dev 4.496

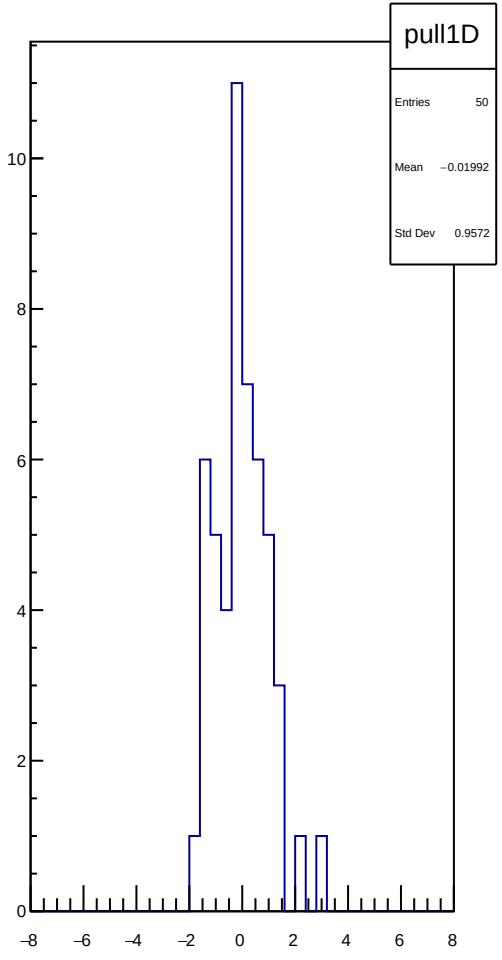

yield_bpm16Y_rms vs run
χ² / ndf 8842 / 49
p0 0.002841 ± 2.864e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

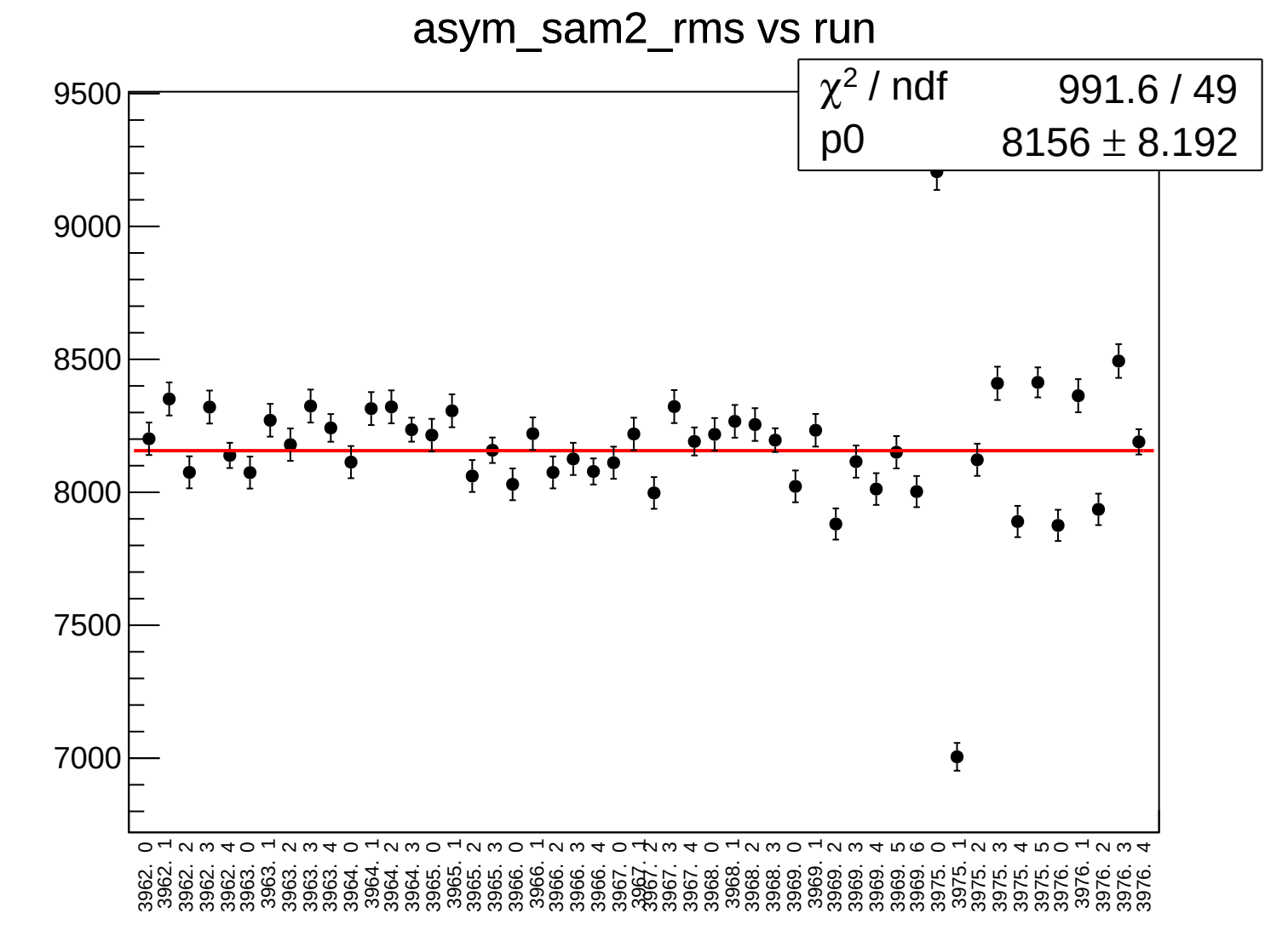

asym_sam1_mean vs run
χ² / ndf 42.04 / 49
p0 −2201 ± 2089
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 220.7
Std Dev 192.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

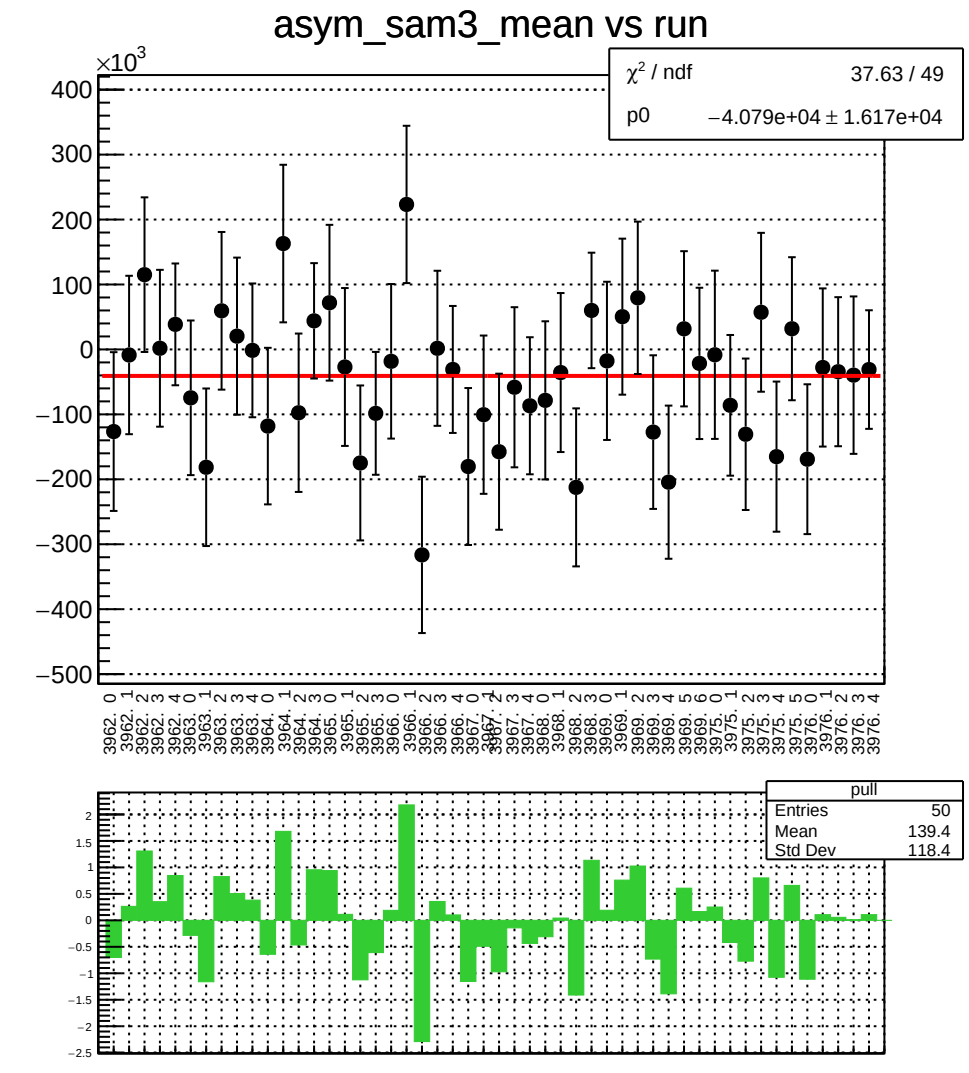

pull1D
Entries 50
Mean −0.01478
Std Dev 0.9168
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

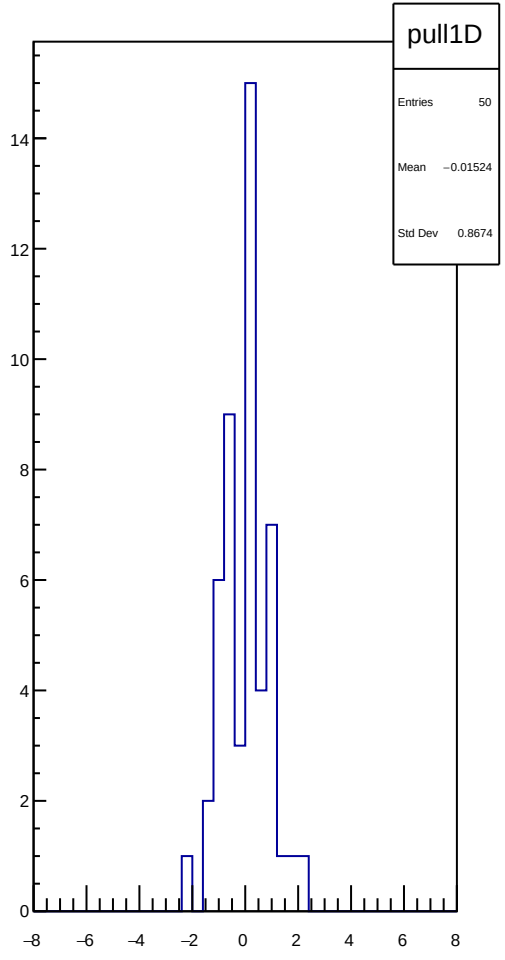

asym_sam1_rms vs run
χ² / ndf 8672 / 49
p0 1465 ± 1.477
1700
1600
1500
1400
1300
1200
1100
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

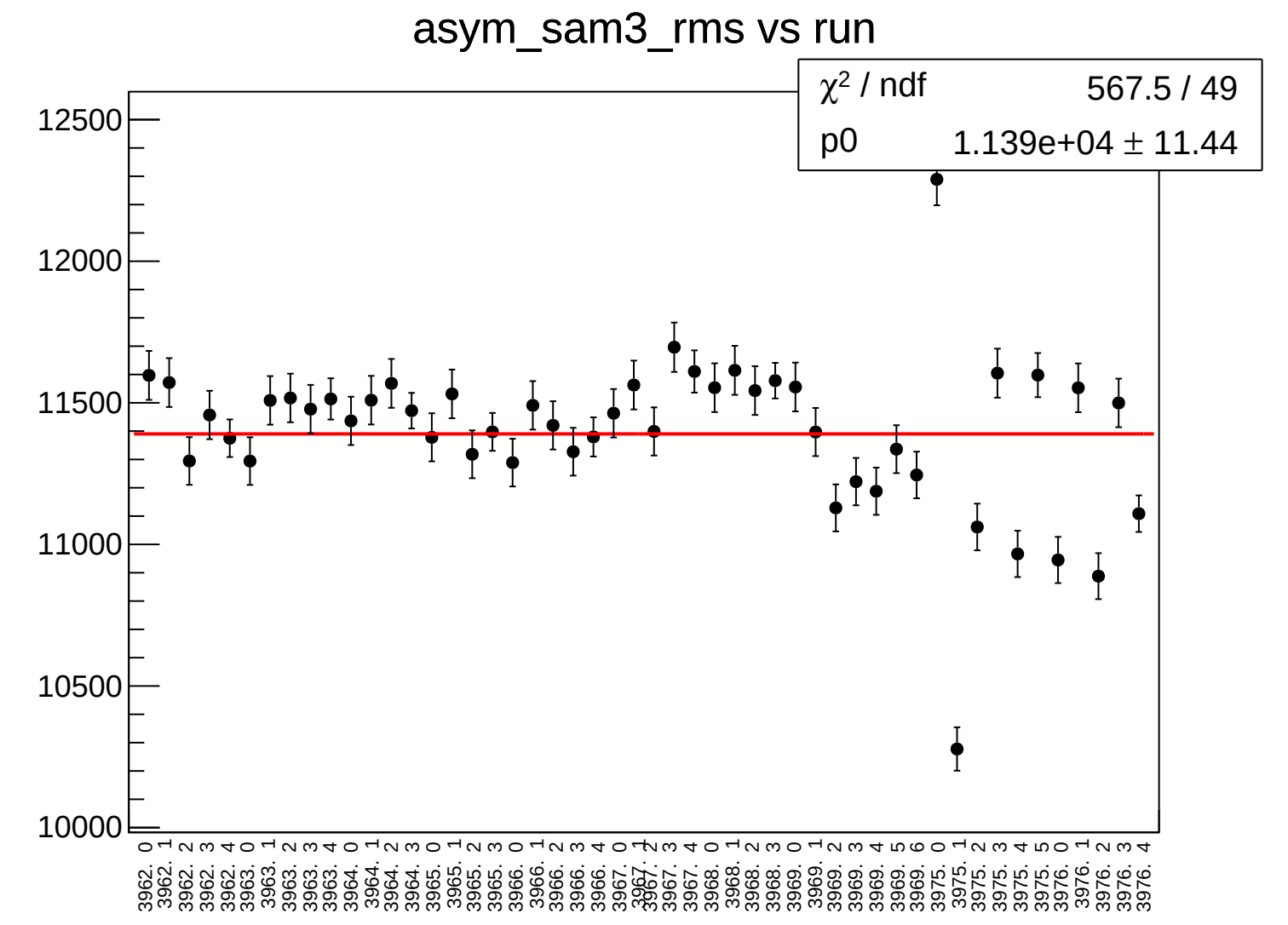

asym_sam2_mean vs run
×10^3
χ² / ndf 45.83 / 49
p0 −3.223e+04 ± 1.158e+04
300
200
100
0
−100
−200
−300
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 124.2
Std Dev 100.9
3
2
1
0
−1

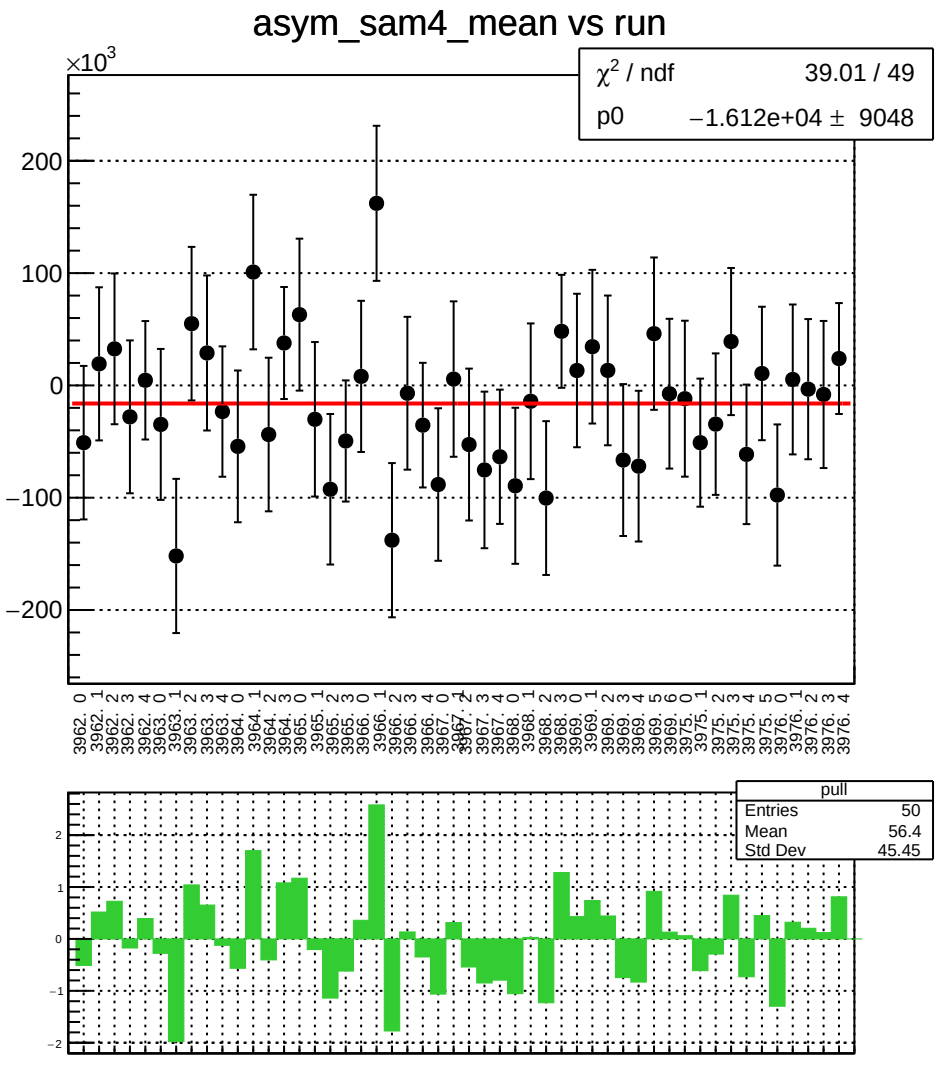

pull1D
Entries 50
Mean −0.01992
Std Dev 0.9572
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

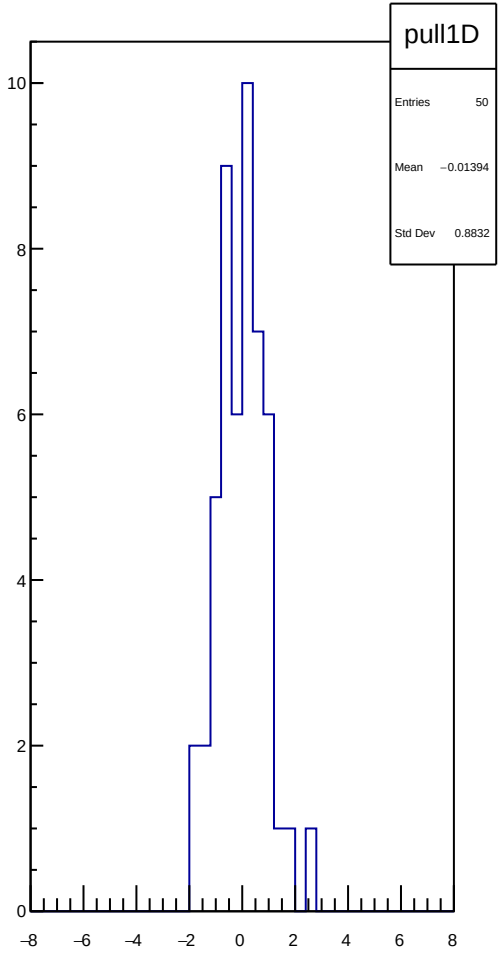

asym_sam2_rms vs run
χ² / ndf 991.6 / 49
p0 8156 ± 8.192
9500
9000
8500
8000
7500
7000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

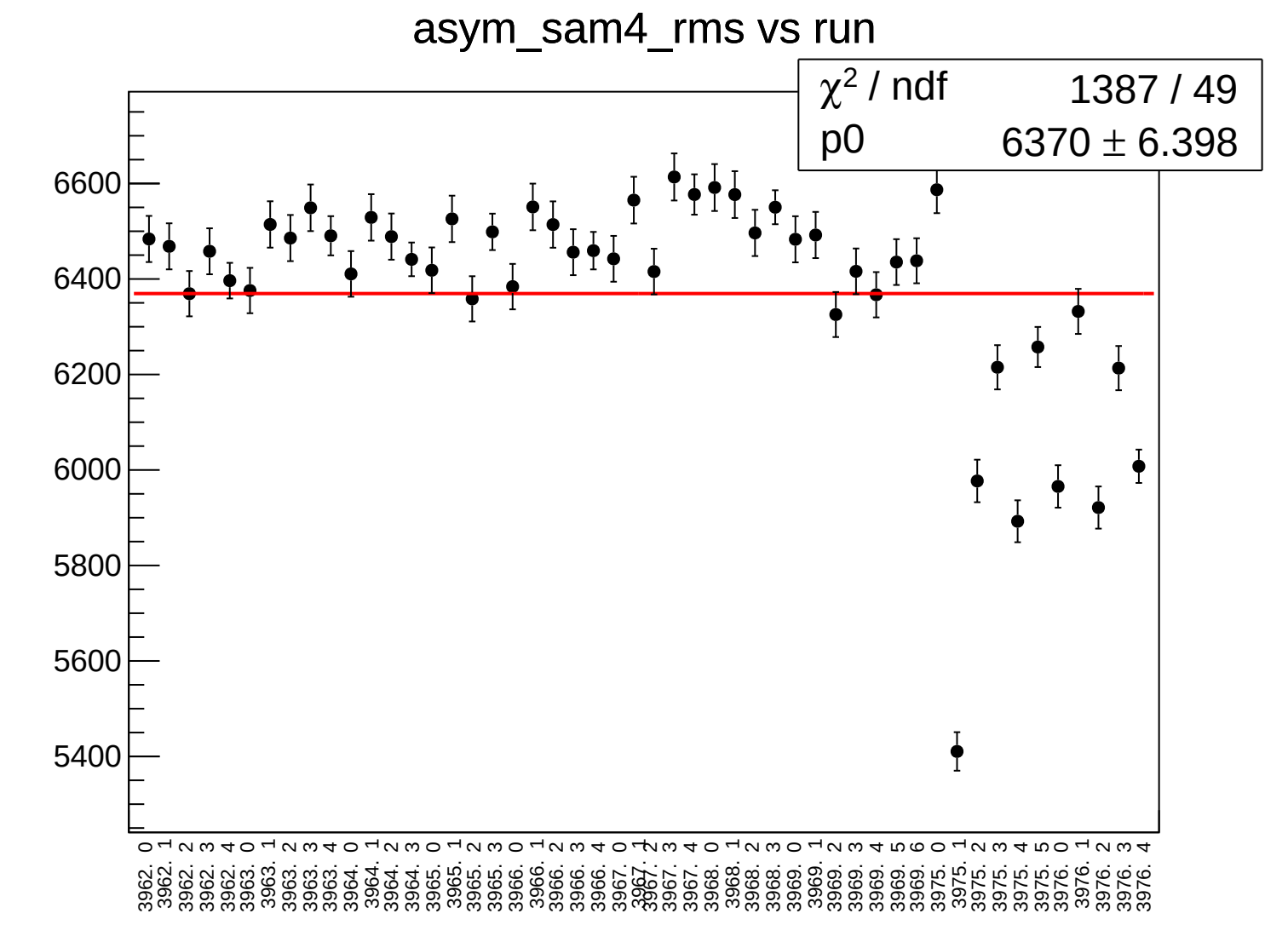

asym_sam3_mean vs run
×10^3
χ² / ndf 37.63 / 49
p0 −4.079e+04 ± 1.617e+04
pull
Entries 50
Mean 139.4
Std Dev 118.4

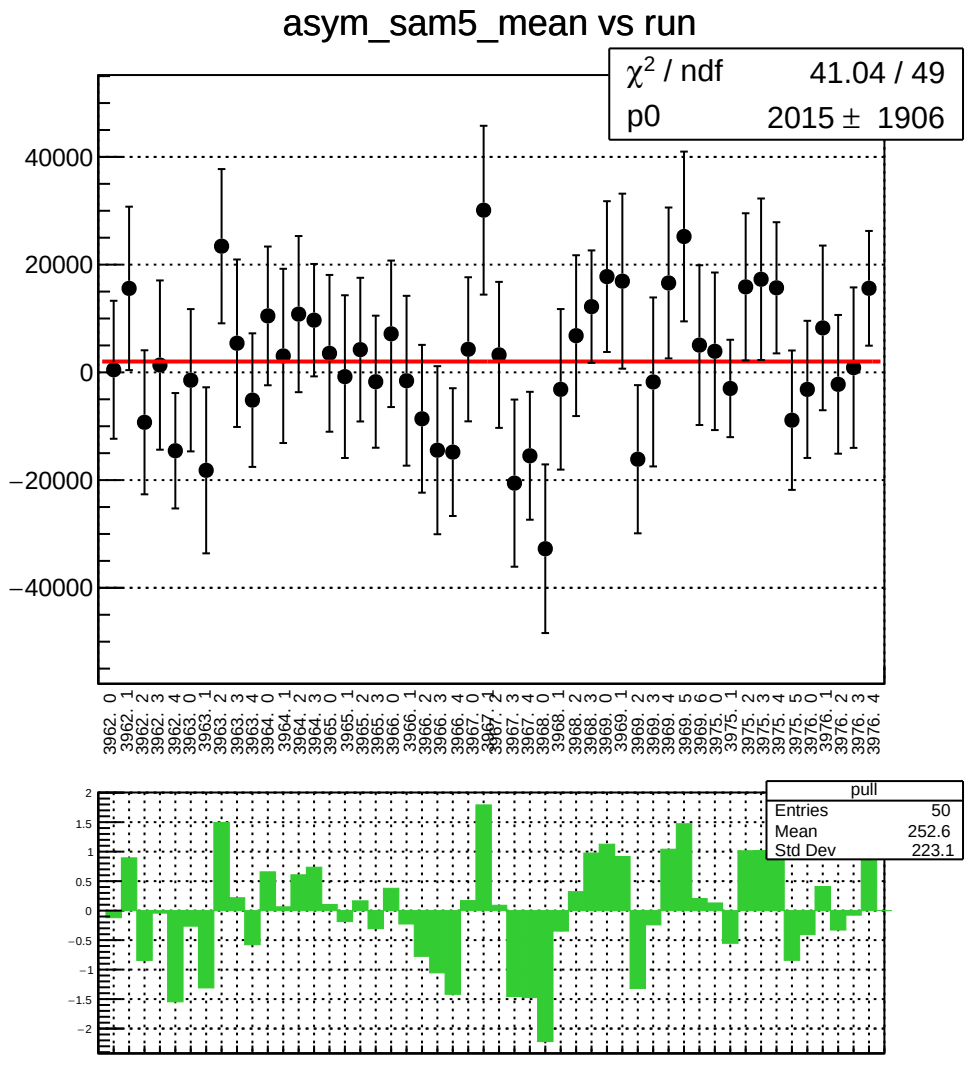

pull1D
Entries 50
Mean −0.01524
Std Dev 0.8674

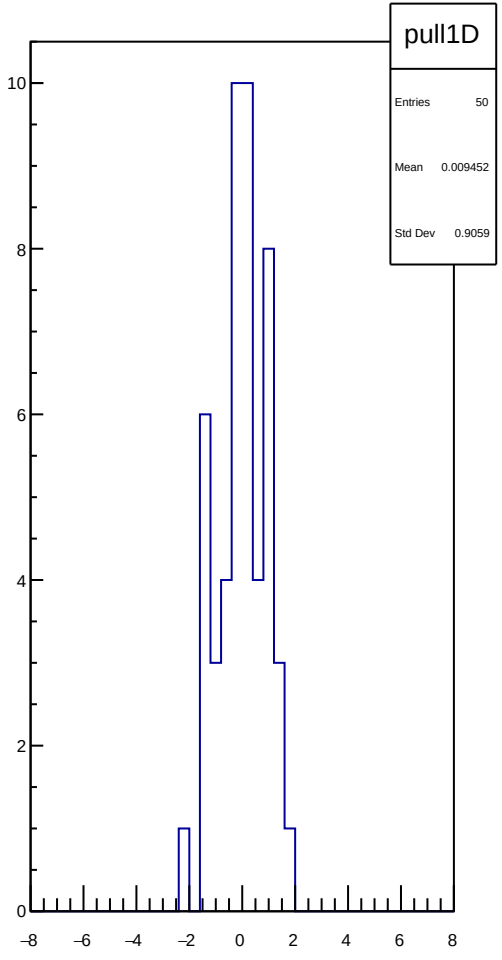

asym_sam3_rms vs run
χ² / ndf 567.5 / 49
p0 1.139e+04 ± 11.44
12500
12000
11500
11000
10500
10000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

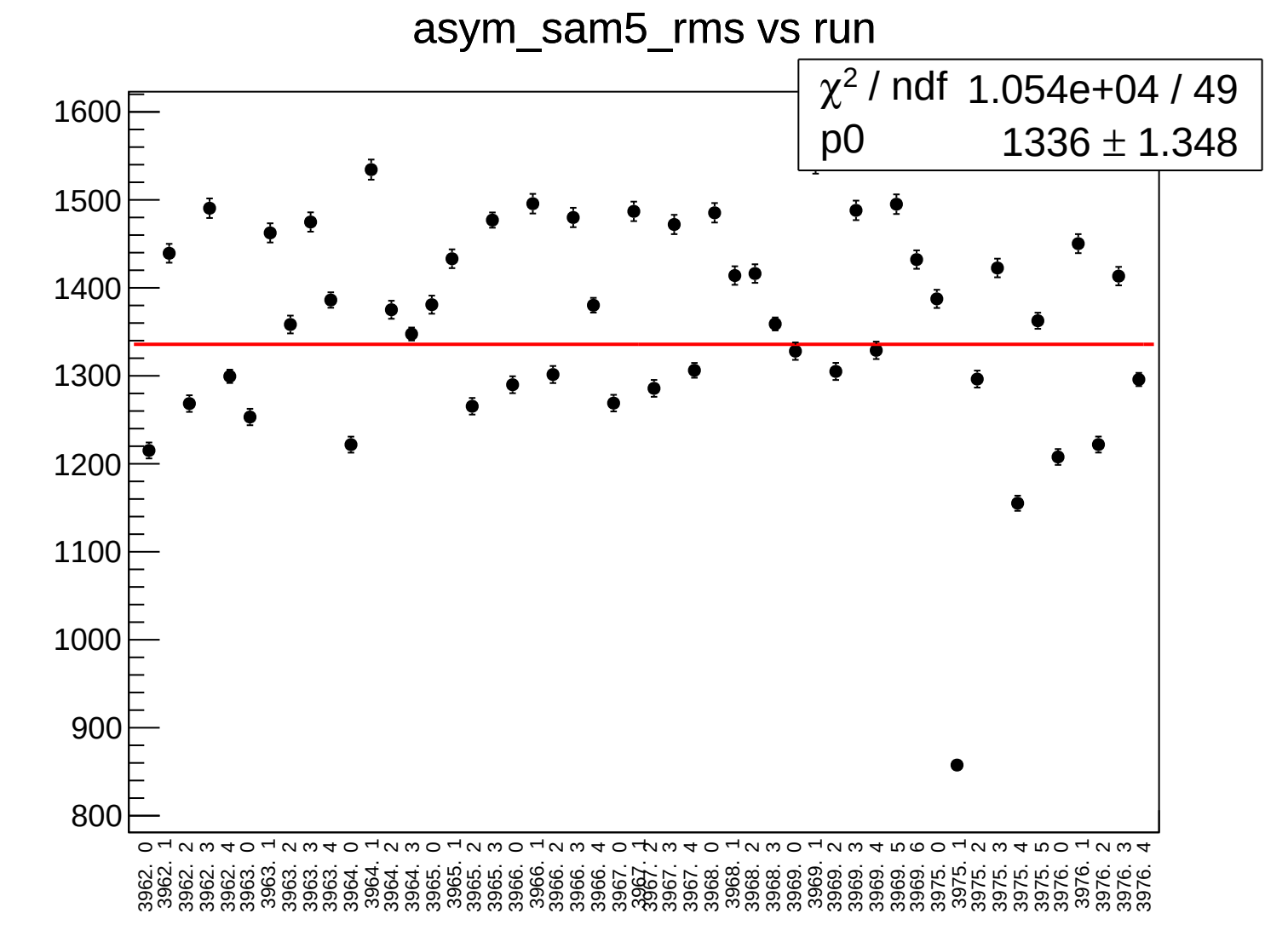

asym_sam4_mean vs run
×10^3
χ² / ndf 39.01 / 49
p0 −1.612e+04 ± 9048
200
100
0
−100
−200
pull
Entries 50
Mean 56.4
Std Dev 45.45
2
1
0
−1
−2

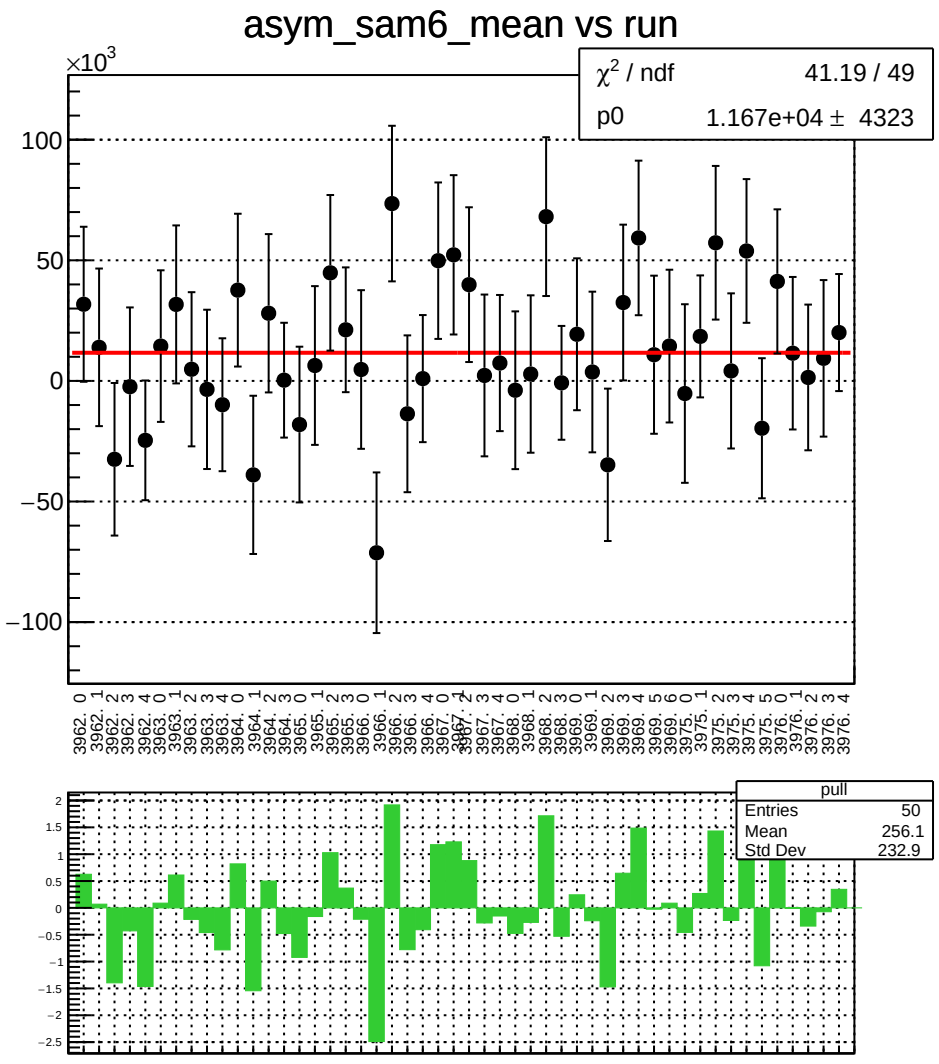

pull1D
Entries 50
Mean −0.01394
Std Dev 0.8832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

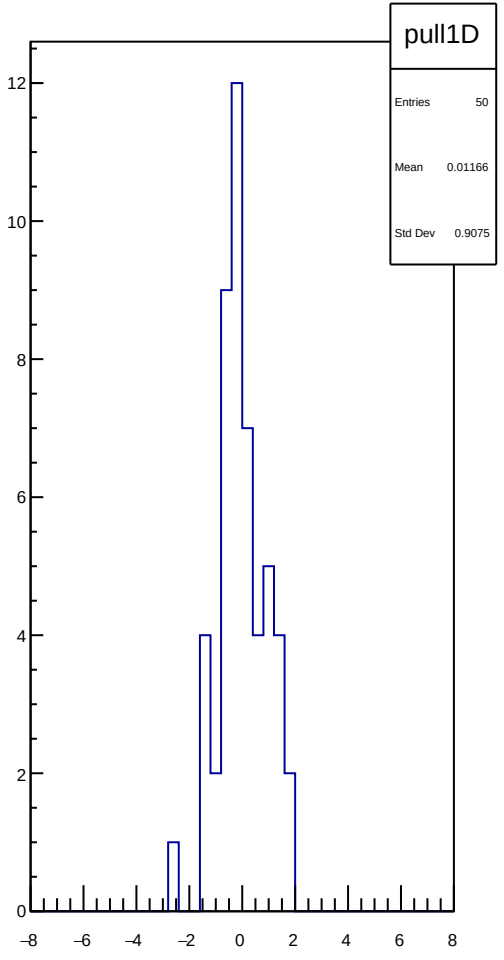

asym_sam4_rms vs run
χ² / ndf 1387 / 49
p0 6370 ± 6.398
6600
6400
6200
6000
5800
5600
5400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

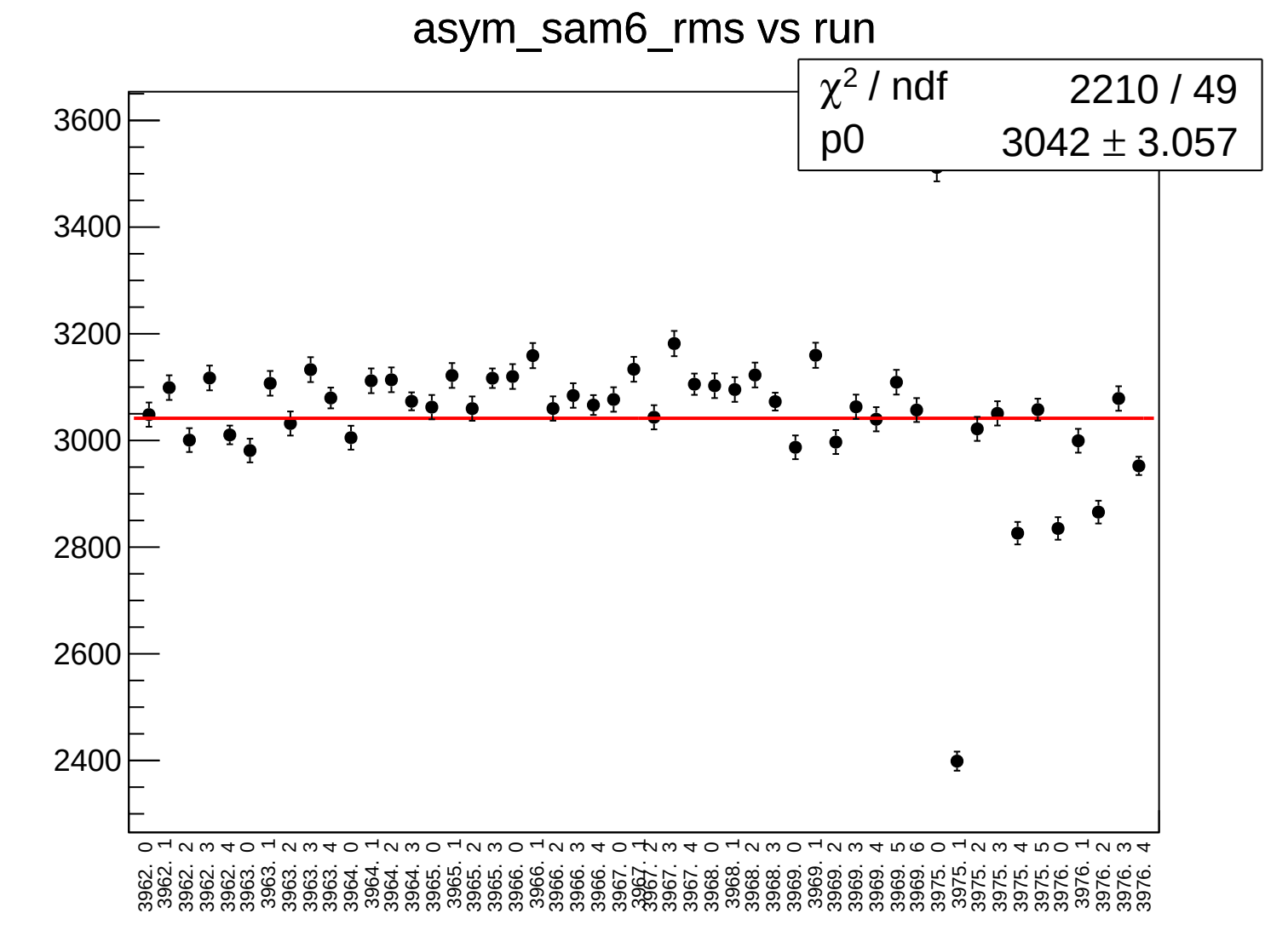

asym_sam5_mean vs run
χ^2 / ndf 41.04 / 49
p0 2015 ± 1906
40000
20000
0
−20000
−40000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 252.6
Std Dev 223.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

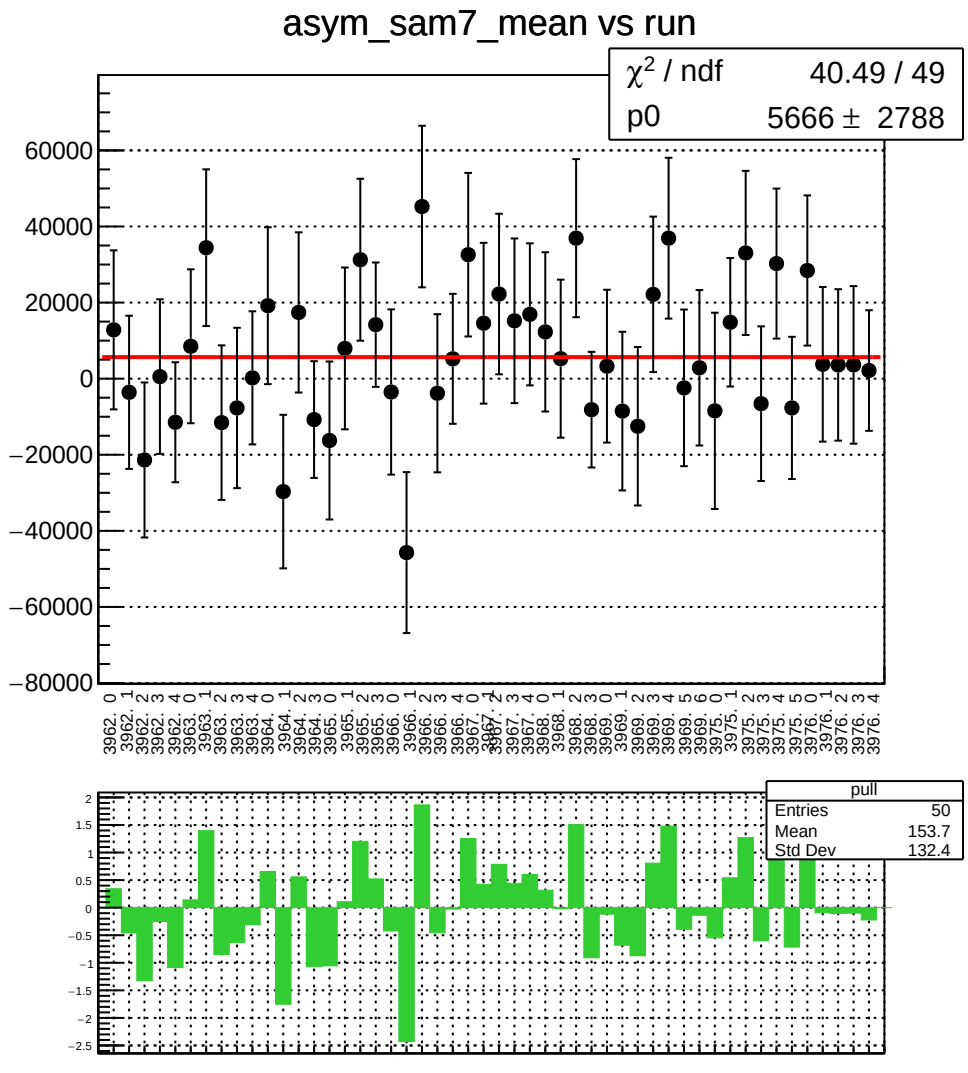

pull1D
Entries 50
Mean 0.009452
Std Dev 0.9059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

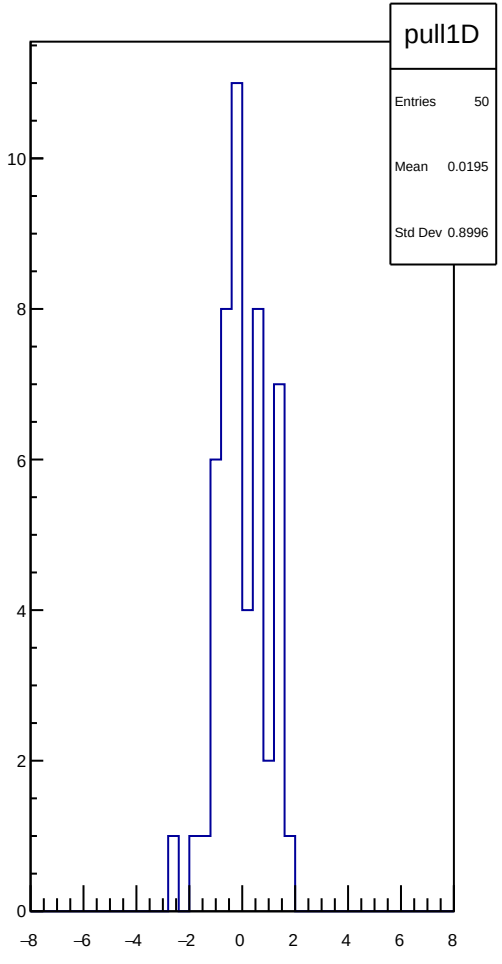

asym_sam5_rms vs run
χ² / ndf 1.054e+04 / 49
p0 1336 ± 1.348
1600
1500
1400
1300
1200
1100
1000
900
800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

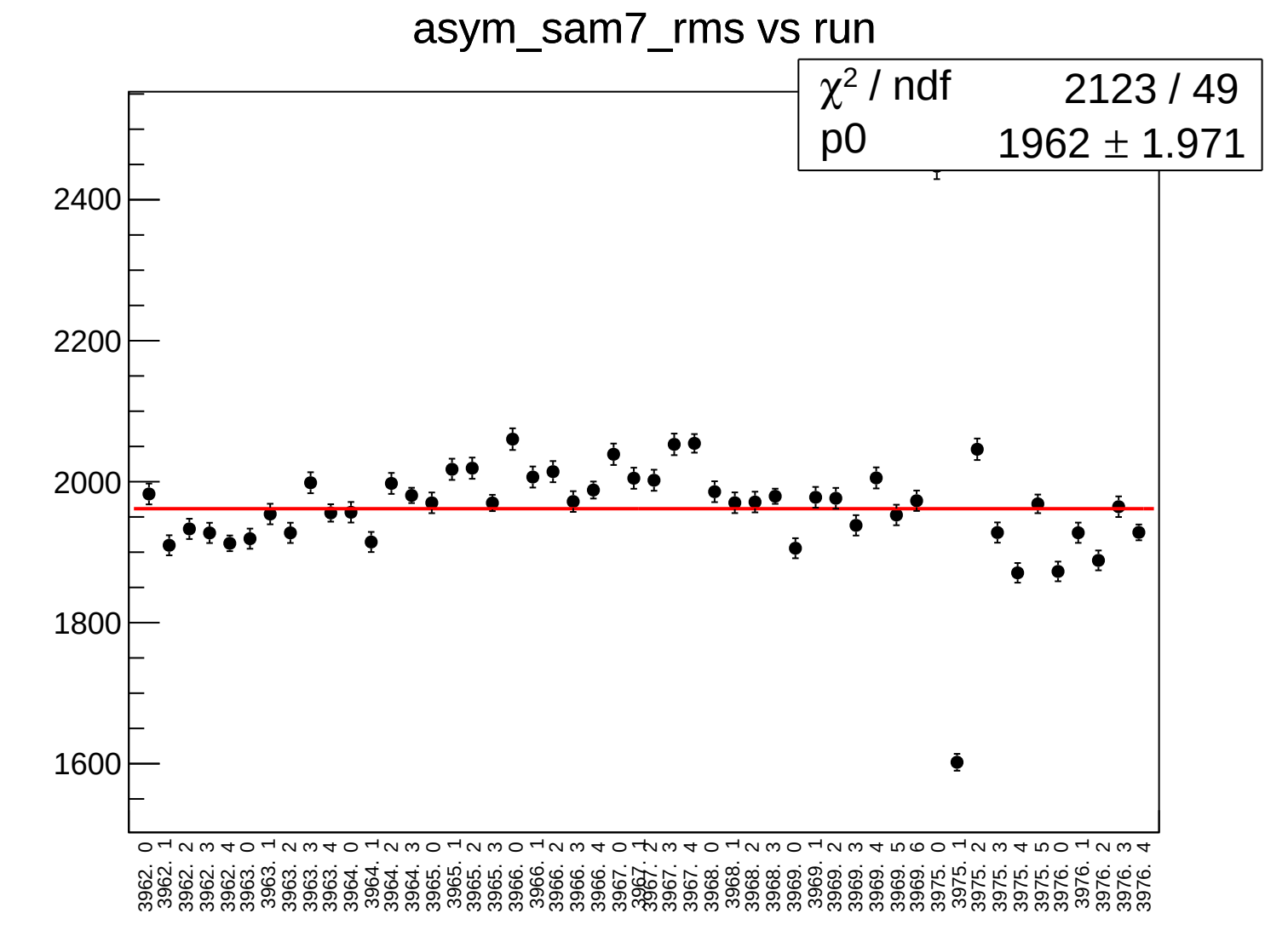

asym_sam6_mean vs run
×10^3
χ² / ndf 41.19 / 49
p0 1.167e+04 ± 4323
100
50
0
−50
−100
pull
Entries 50
Mean 256.1
Std Dev 232.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

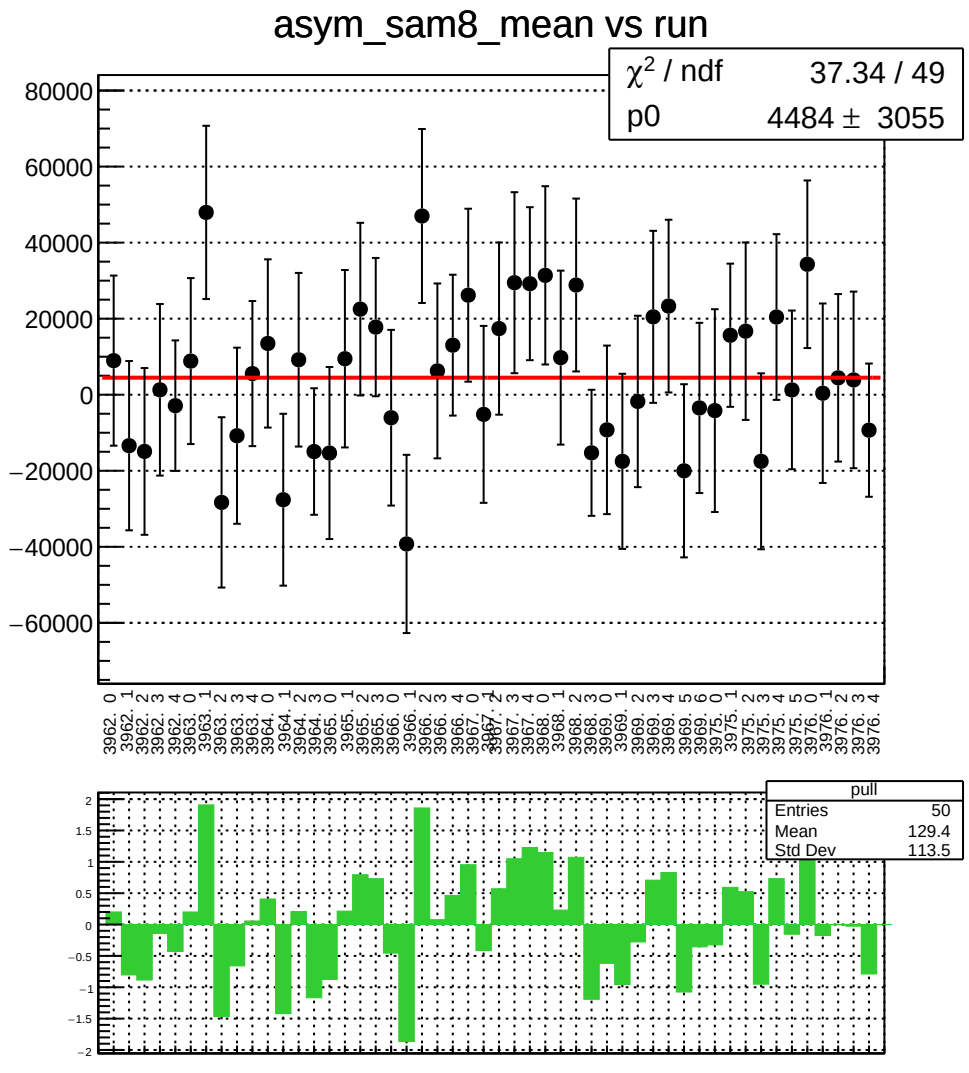

pull1D
Entries 50
Mean 0.01166
Std Dev 0.9075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

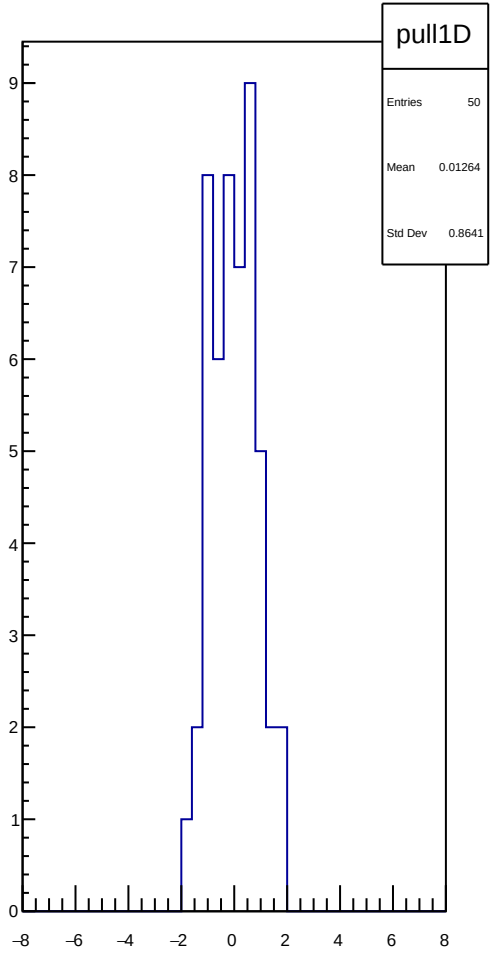

asym_sam6_rms vs run
χ² / ndf 2210 / 49
p0 3042 ± 3.057
3600
3400
3200
3000
2800
2600
2400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

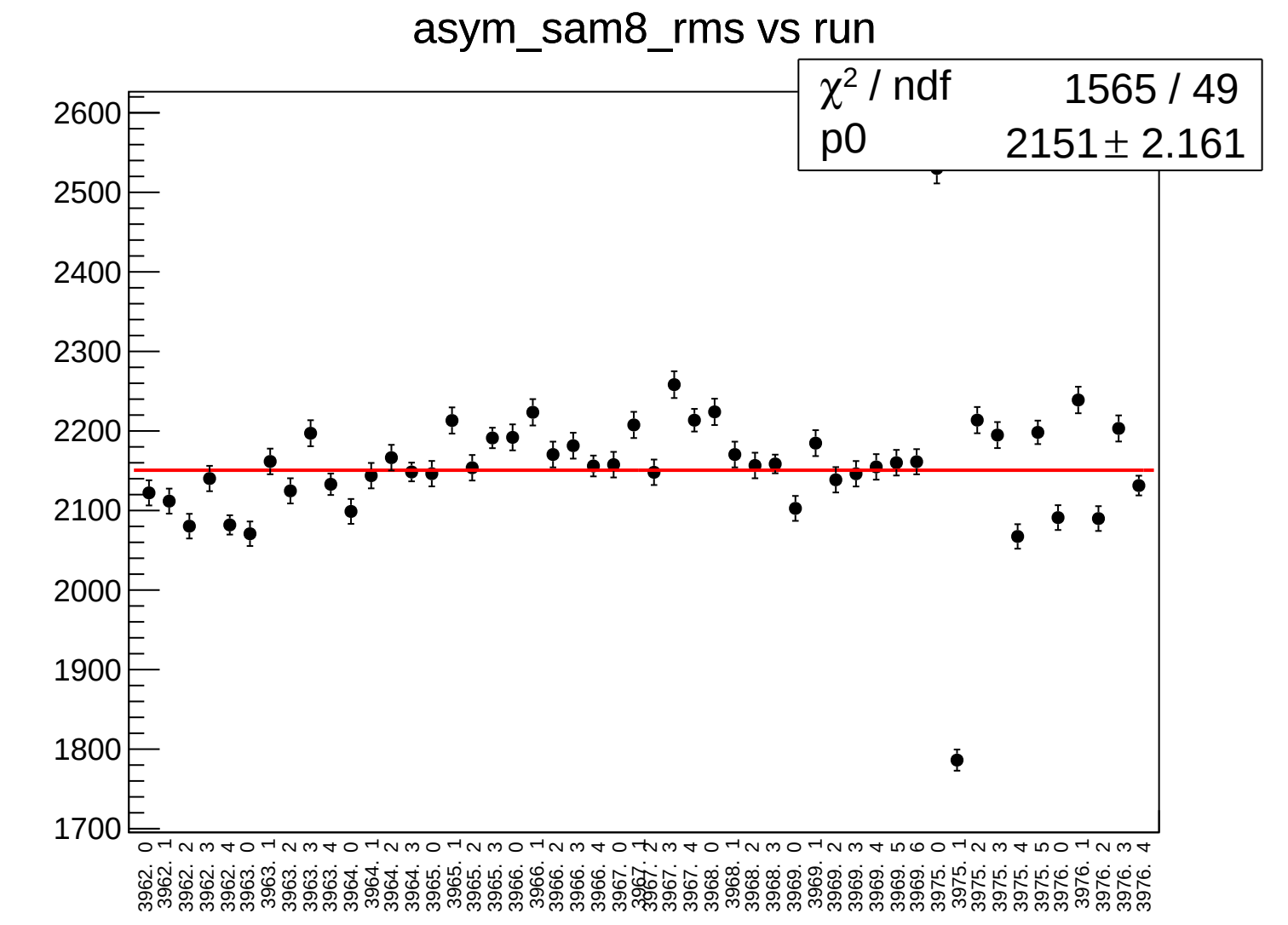

asym_sam7_mean vs run
χ² / ndf 40.49 / 49
p0 5666 ± 2788
pull
Entries 50
Mean 153.7
Std Dev 132.4

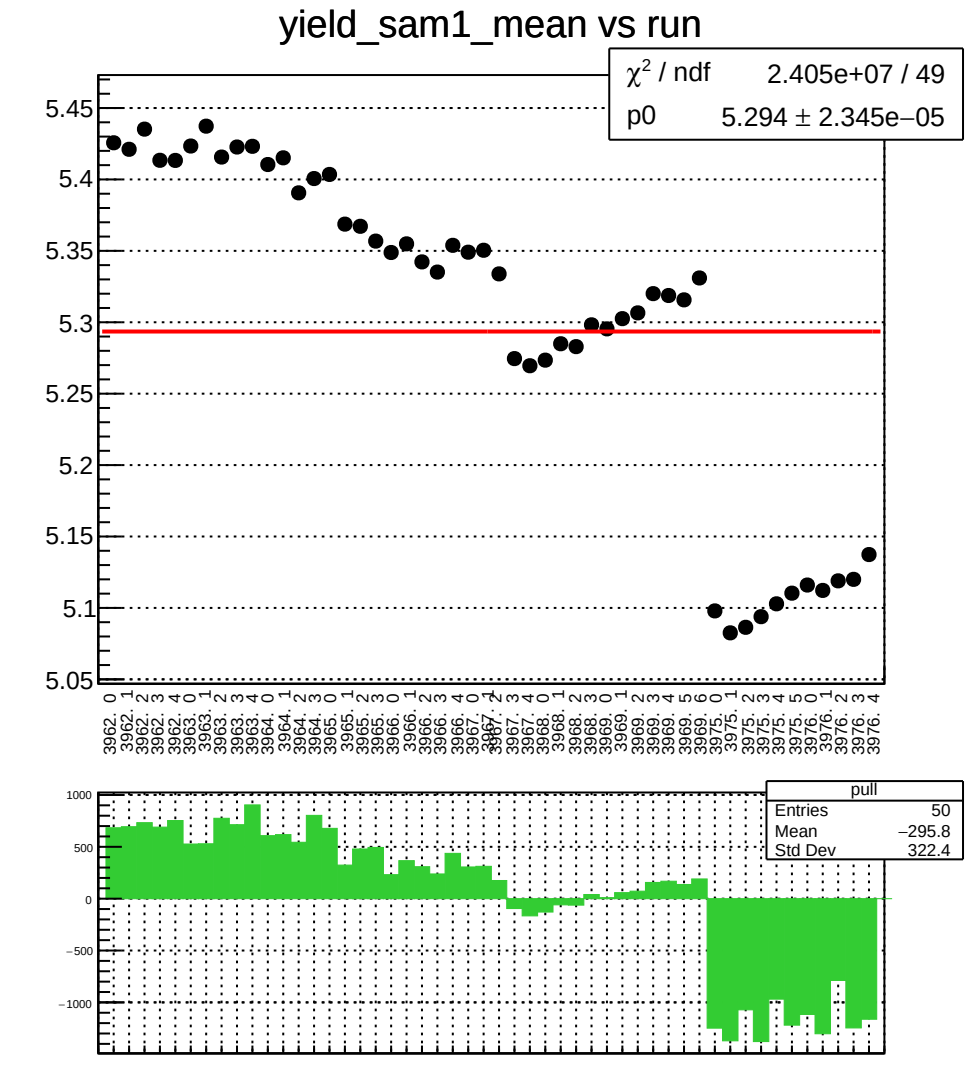

pull1D
Entries 50
Mean 0.0195
Std Dev 0.8996

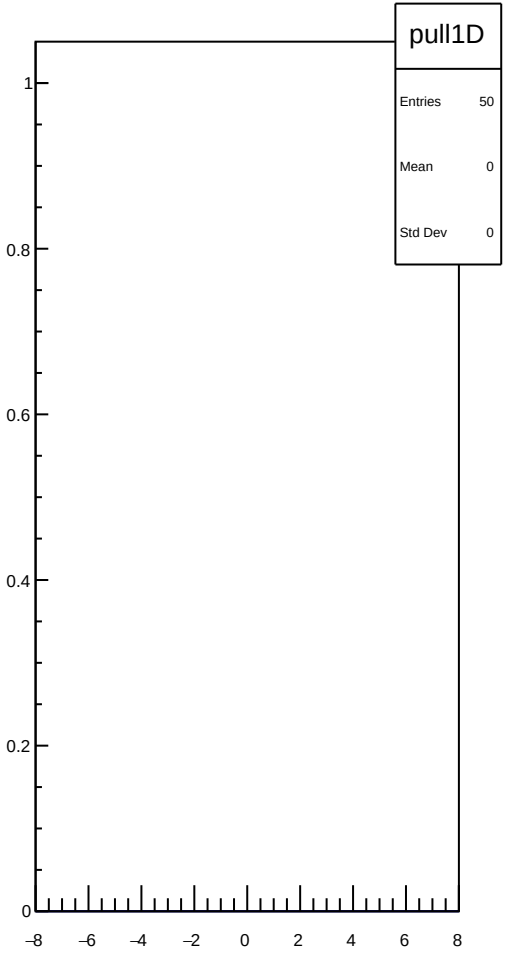

asym_sam7_rms vs run
χ² / ndf 2123 / 49
p0 1962 ± 1.971
2400
2200
2000
1800
1600
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

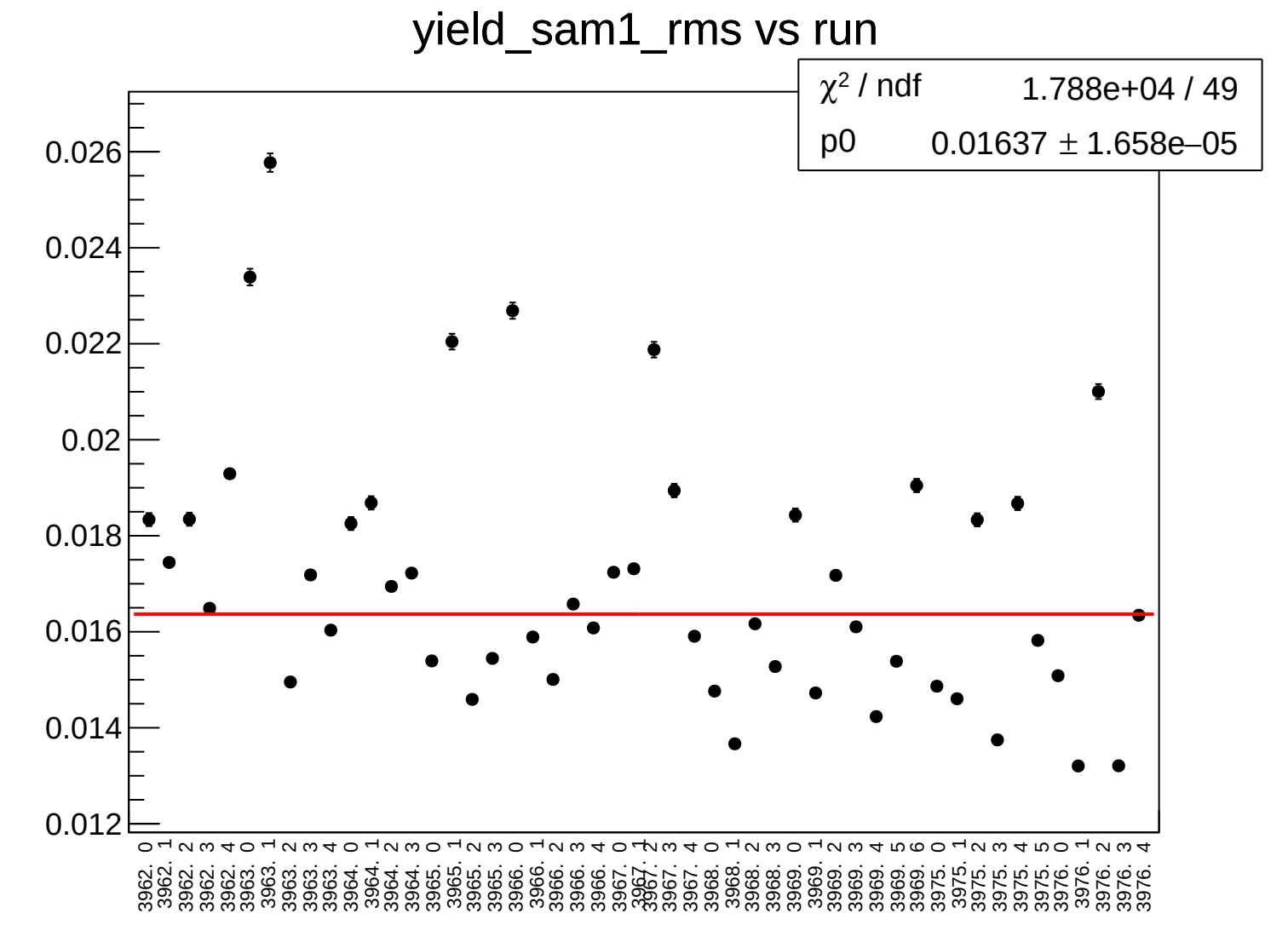

asym_sam8_mean vs run
χ² / ndf 37.34 / 49
p0 4484 ± 3055
pull
Entries 50
Mean 129.4
Std Dev 113.5

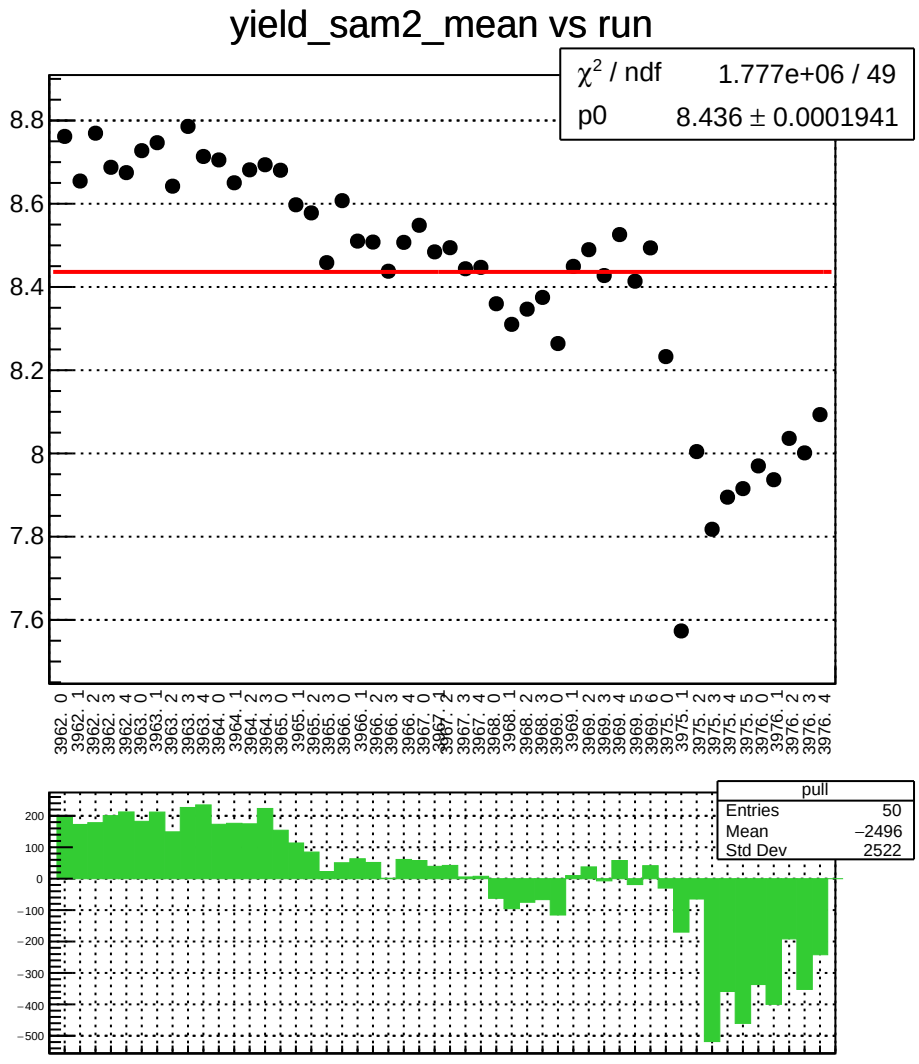

pull1D
Entries 50
Mean 0.01264
Std Dev 0.8641

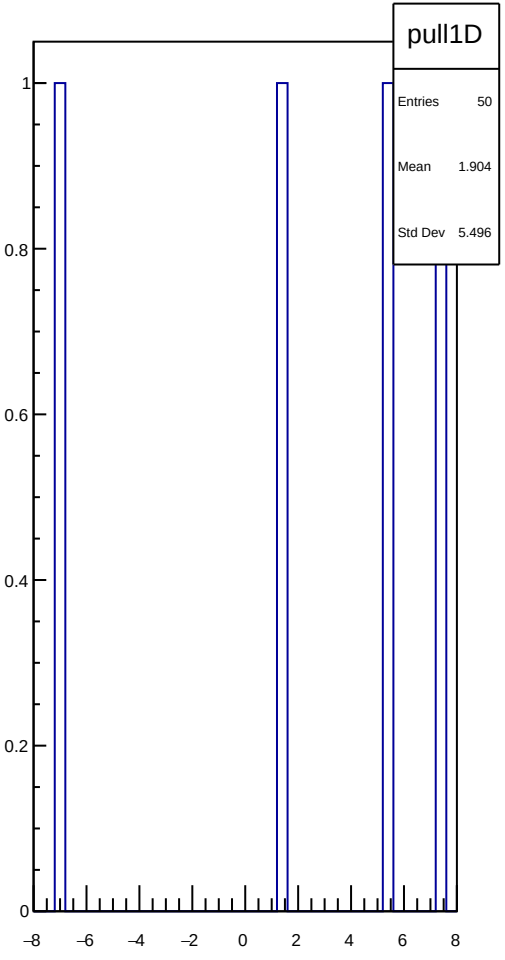

asym_sam8_rms vs run
χ² / ndf 1565 / 49
p0 2151 ± 2.161
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

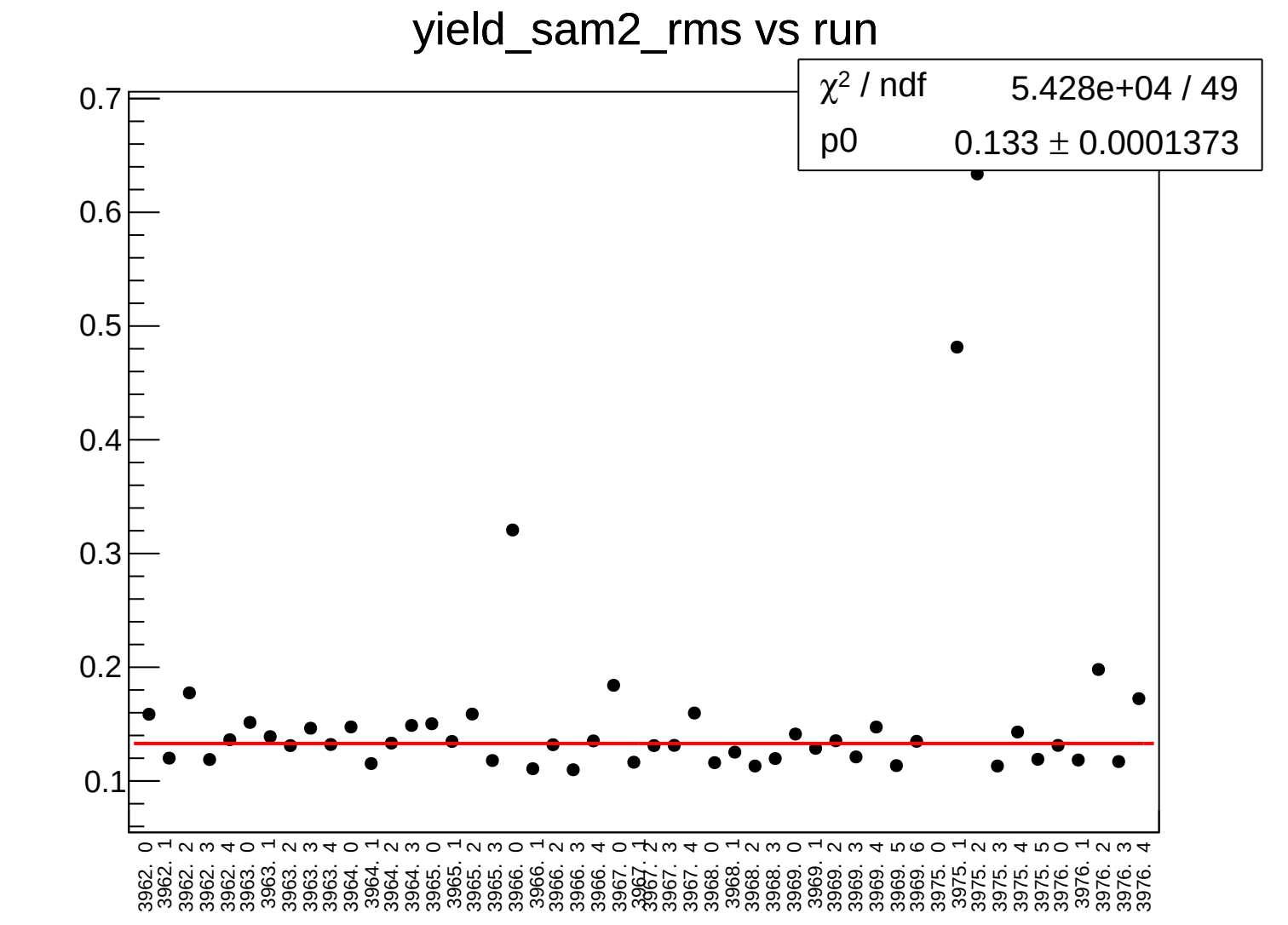

yield_sam1_mean vs run
χ² / ndf 2.405e+07 / 49
p0 5.294 ± 2.345e−05
5.45
5.4
5.35
5.3
5.25
5.2
5.15
5.1
5.05
pull
Entries 50
Mean −295.8
Std Dev 322.4
1000
500
0
−500
−1000

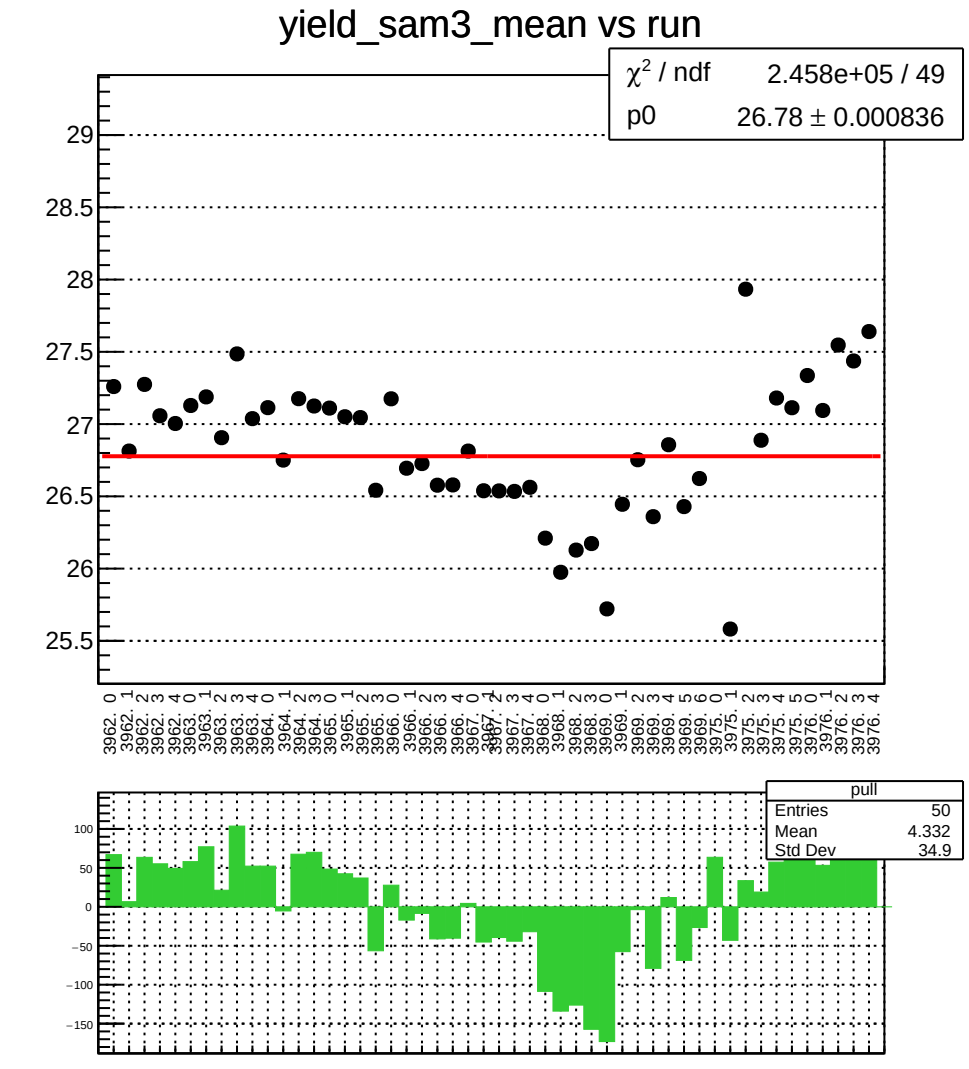

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

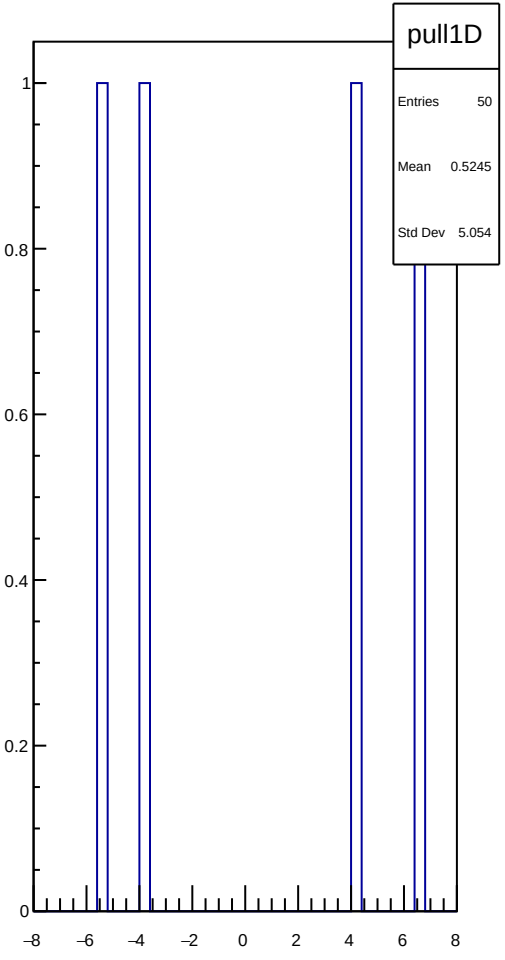

yield_sam1_rms vs run
χ² / ndf 1.788e+04 / 49
p0 0.01637 ± 1.658e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

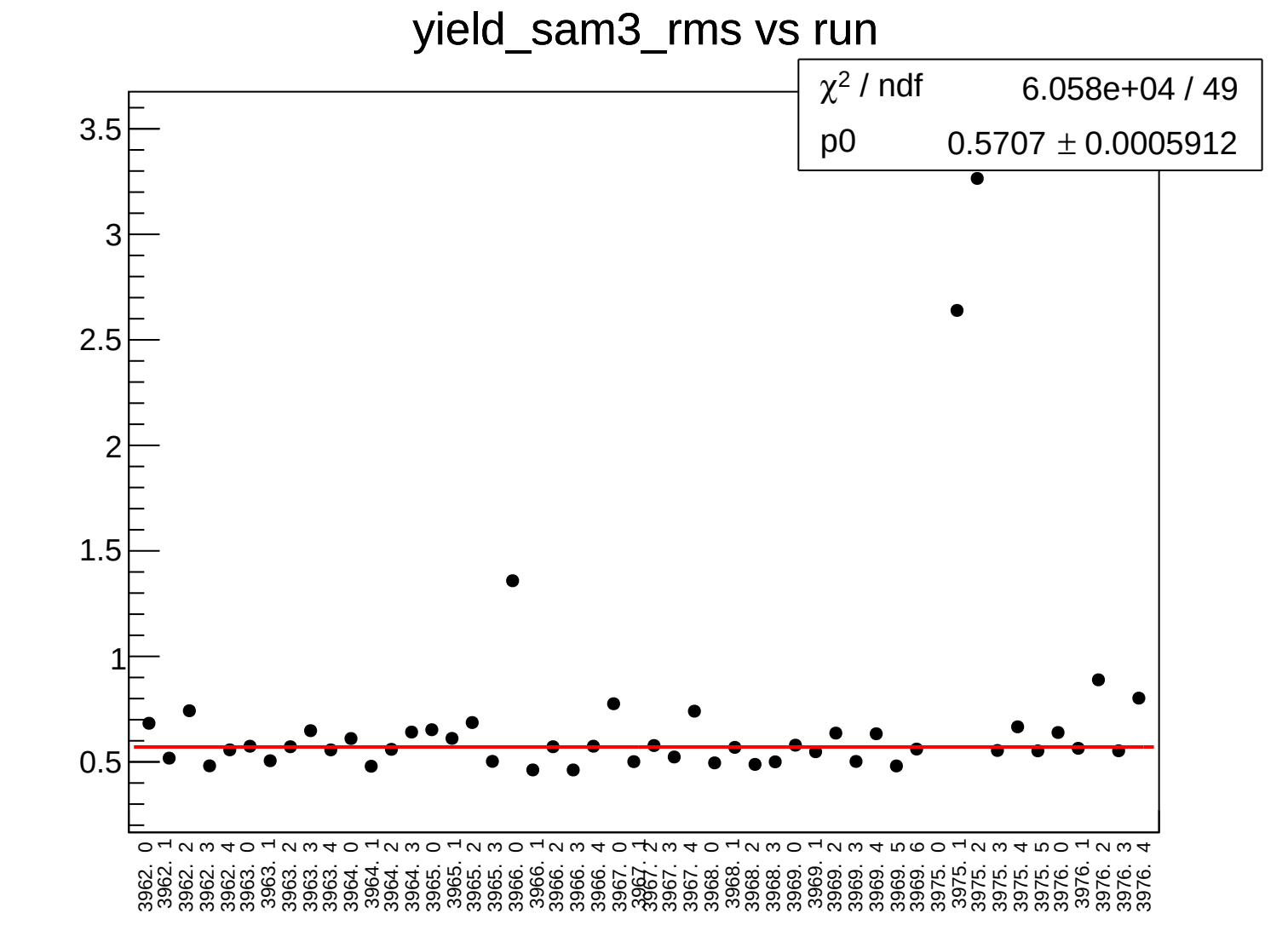

yield_sam2_mean vs run
χ² / ndf 1.777e+06 / 49
p0 8.436 ± 0.0001941
8.8
8.6
8.4
8.2
8
7.8
7.6
pull
Entries 50
Mean −2496
Std Dev 2522
200
100
0
−100
−200
−300
−400
−500

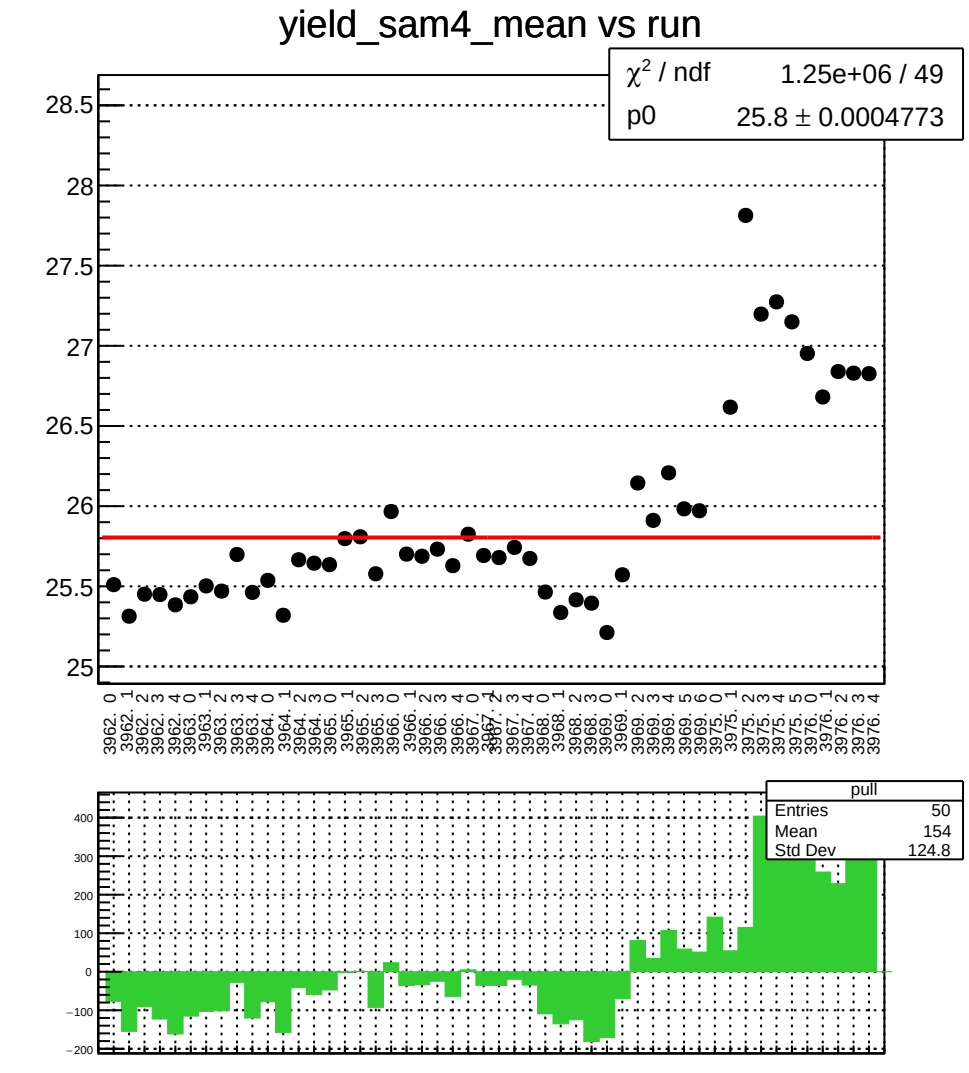

pull1D
Entries 50
Mean 1.904
Std Dev 5.496
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

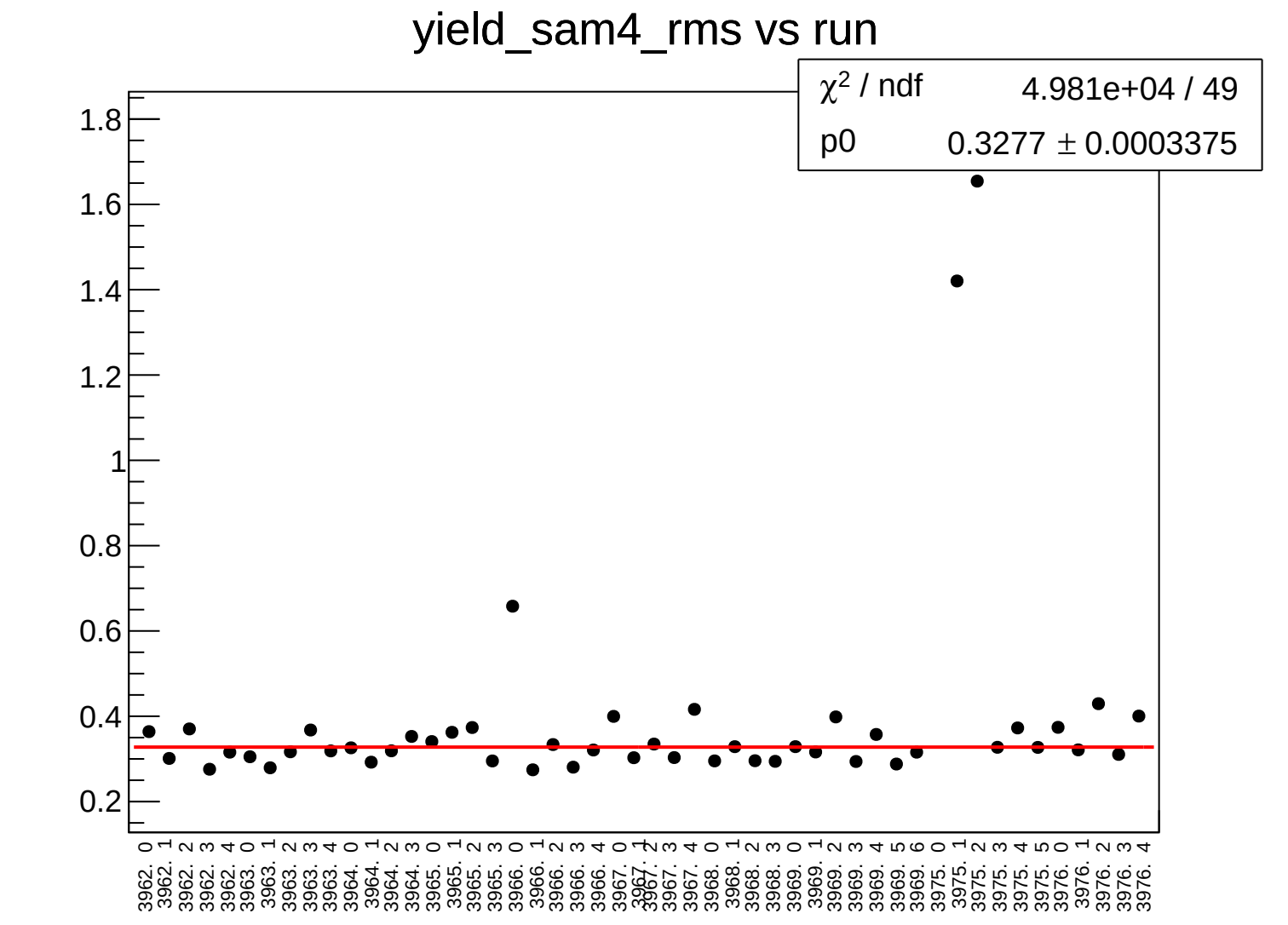

yield_sam2_rms vs run
χ² / ndf 5.428e+04 / 49
p0 0.133 ± 0.0001373
0.7
0.6
0.5
0.4
0.3
0.2
0.1
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

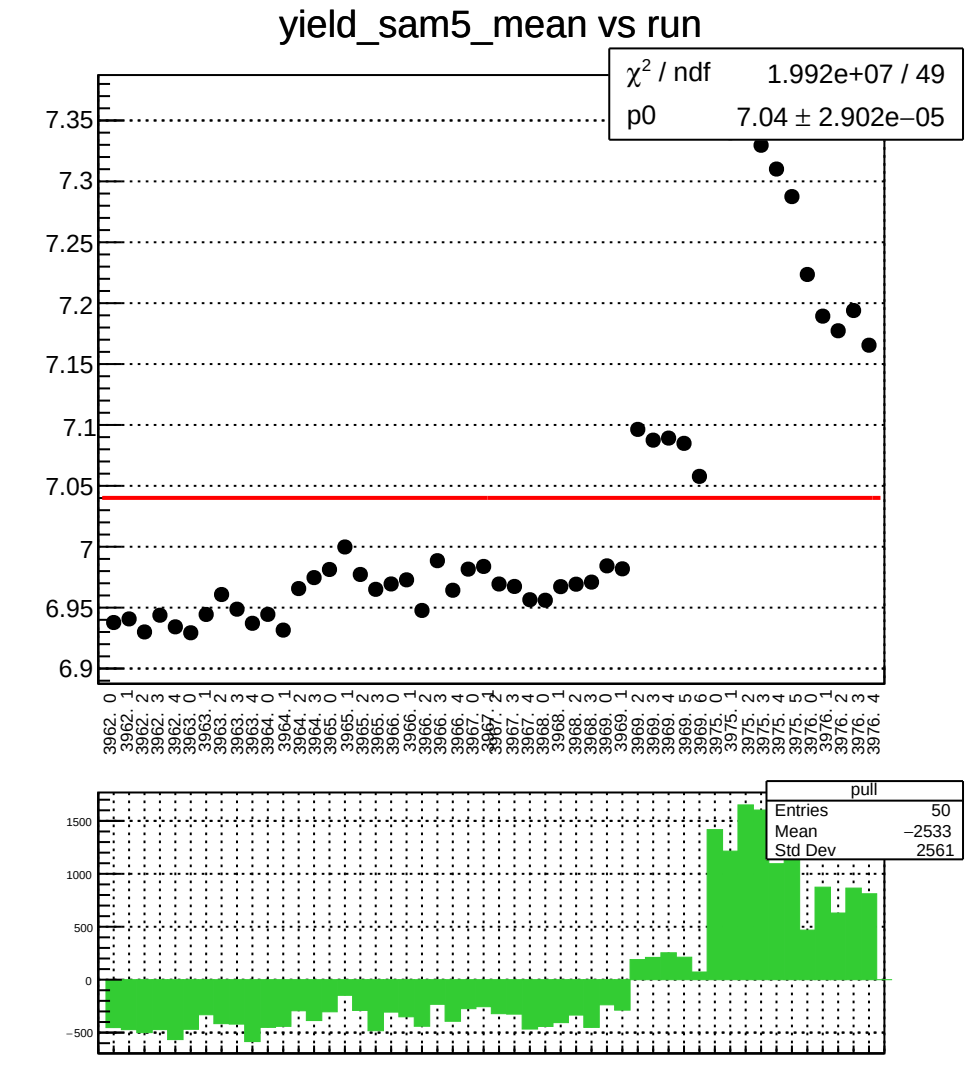

yield_sam3_mean vs run
χ² / ndf 2.458e+05 / 49
p0 26.78 ± 0.000836
pull
Entries 50
Mean 4.332
Std Dev 34.9

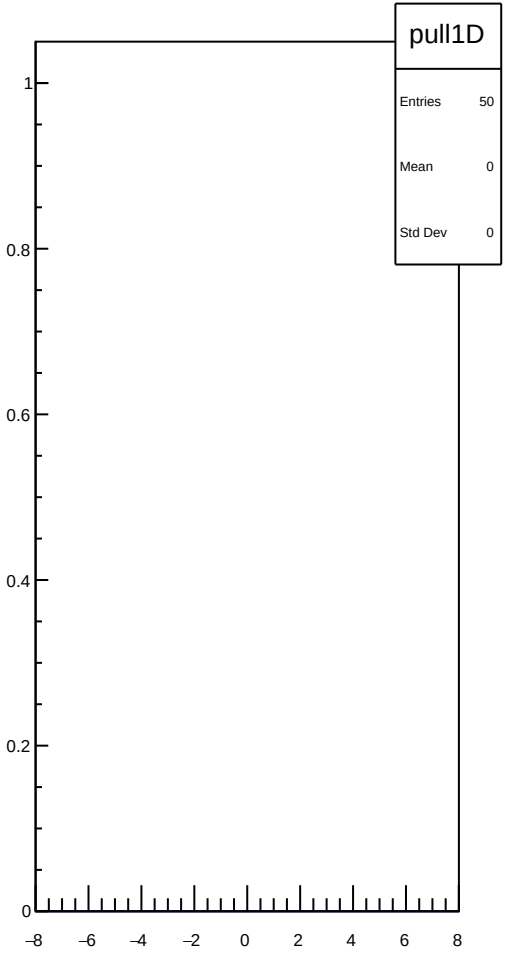

pull1D
Entries 50
Mean 0.5245
Std Dev 5.054

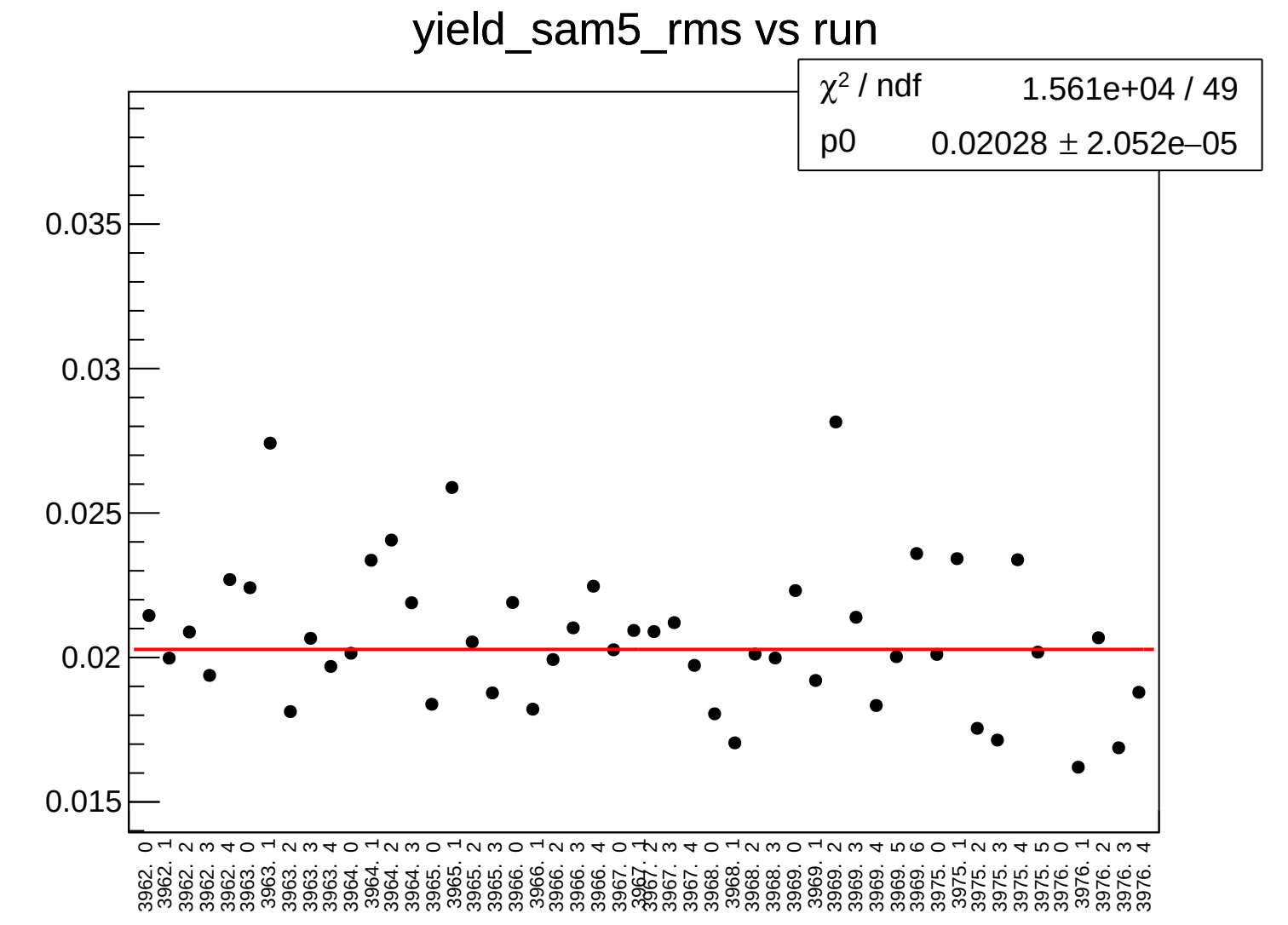

yield_sam3_rms vs run
χ² / ndf 6.058e+04 / 49
p0 0.5707 ± 0.0005912
3.5
3
2.5
2
1.5
1
0.5
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

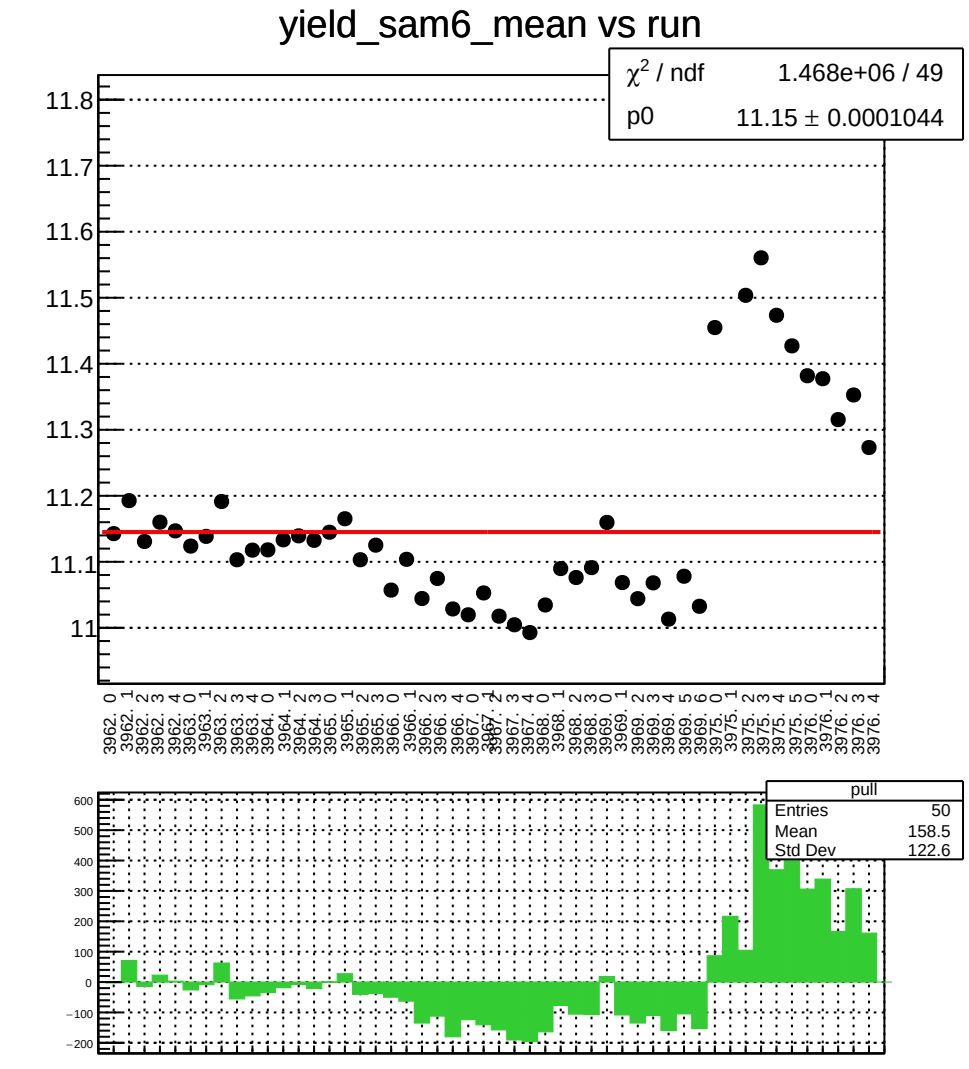

yield_sam4_mean vs run
χ² / ndf 1.25e+06 / 49
p0 25.8 ± 0.0004773
28.5
28
27.5
27
26.5
26
25.5
25
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 154
Std Dev 124.8
400
300
200
100
0
−100
−200
pull1D
Entries 50
Mean 1.323
Std Dev 2.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

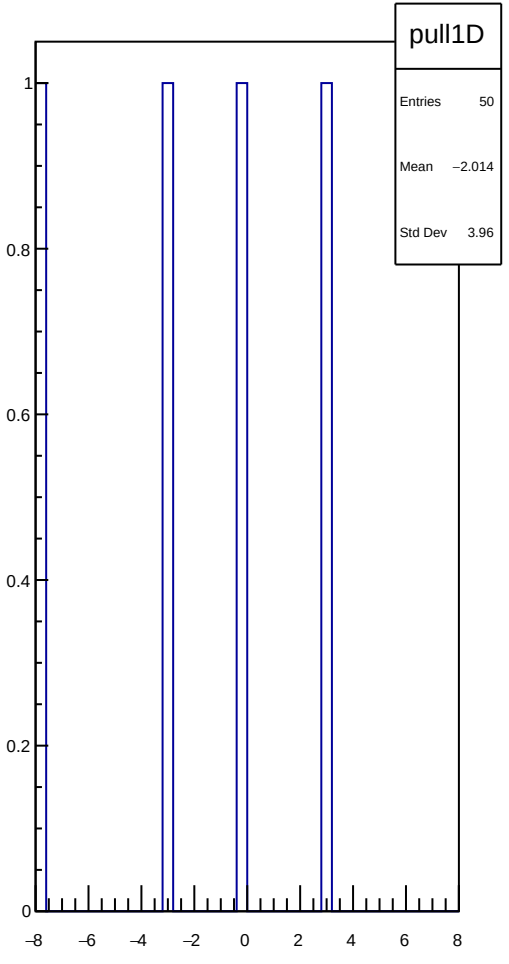

yield_sam4_rms vs run
χ² / ndf 4.981e+04 / 49
p0 0.3277 ± 0.0003375
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

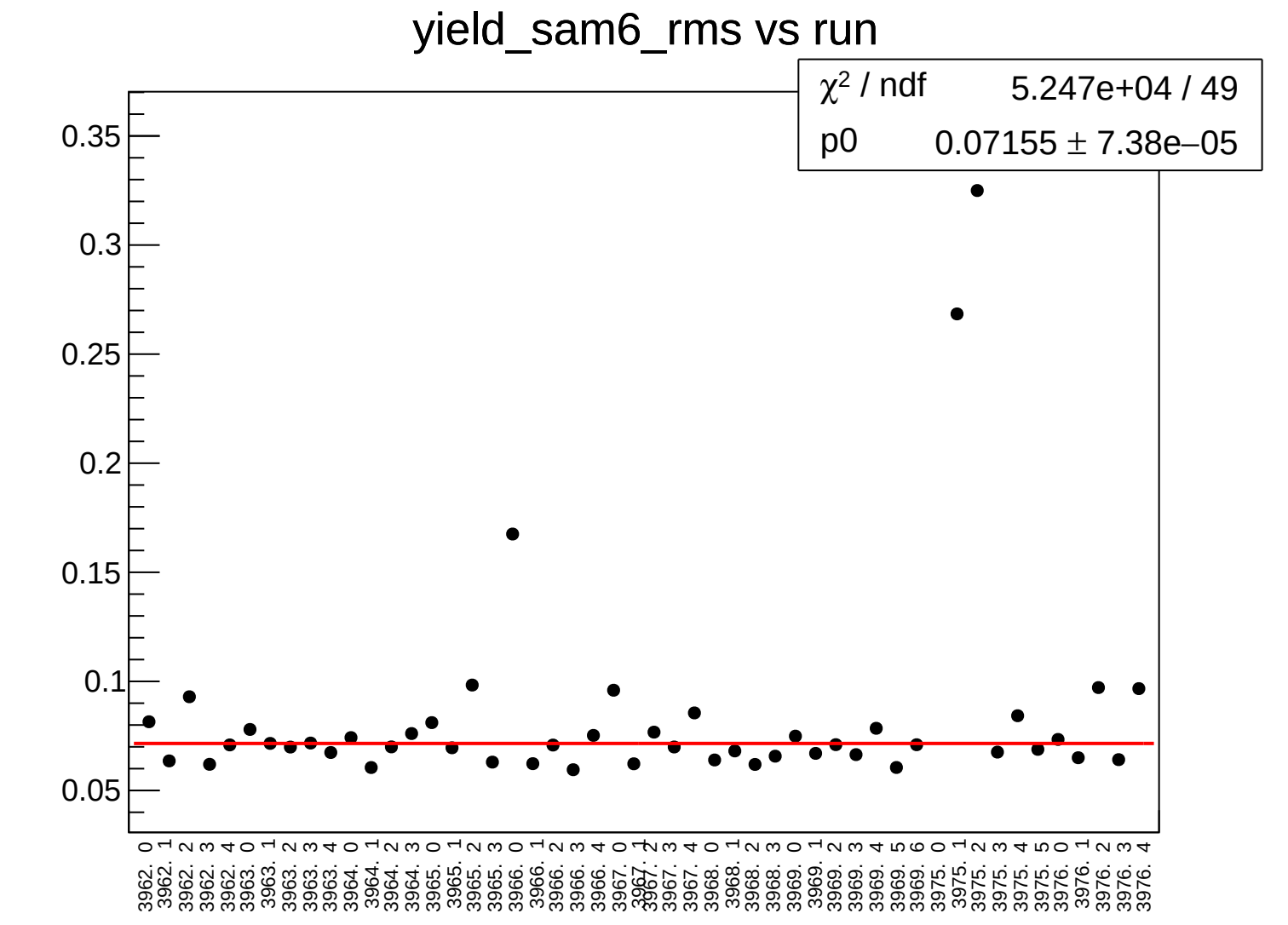

yield_sam5_mean vs run
χ² / ndf 1.992e+07 / 49
p0 7.04 ± 2.902e−05
7.35
7.3
7.25
7.2
7.15
7.1
7.05
7
6.95
6.9
pull
Entries 50
Mean −2533
Std Dev 2561
1500
1000
500
0
−500

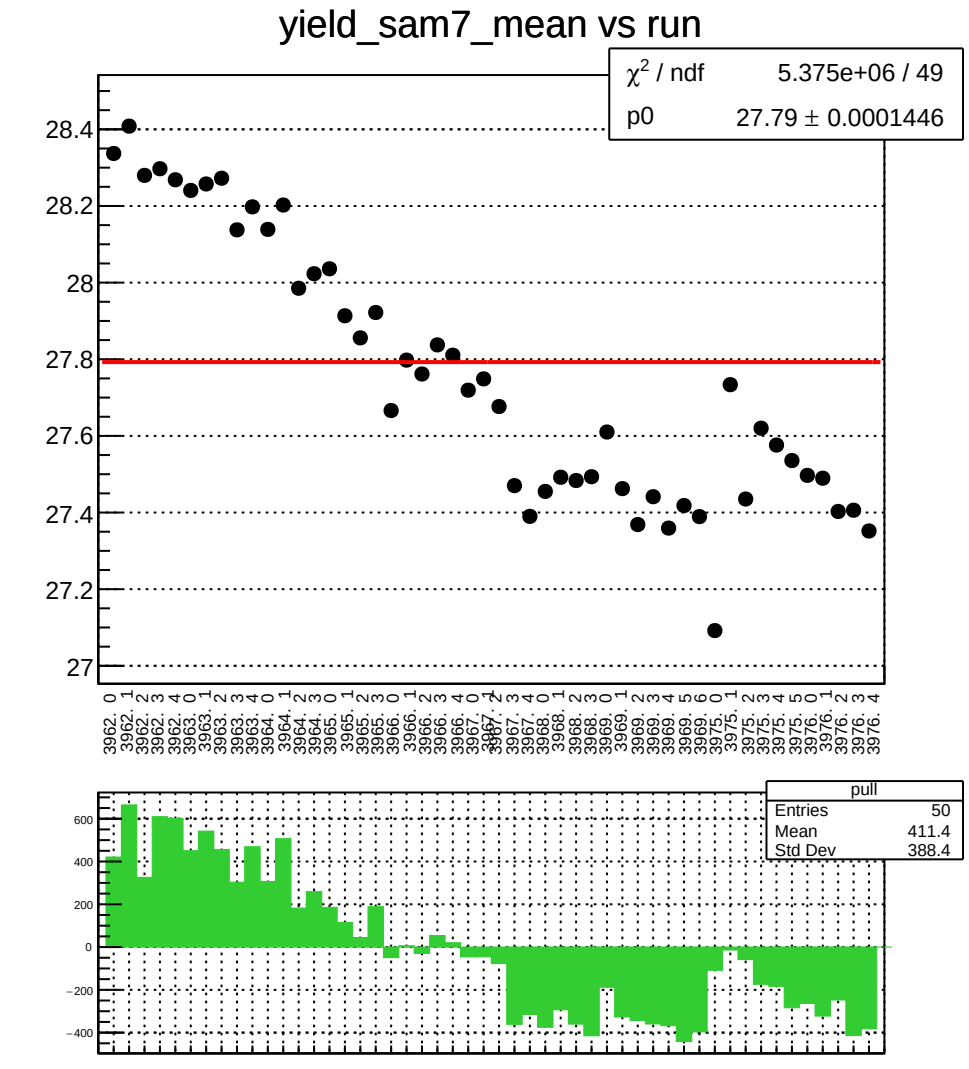

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

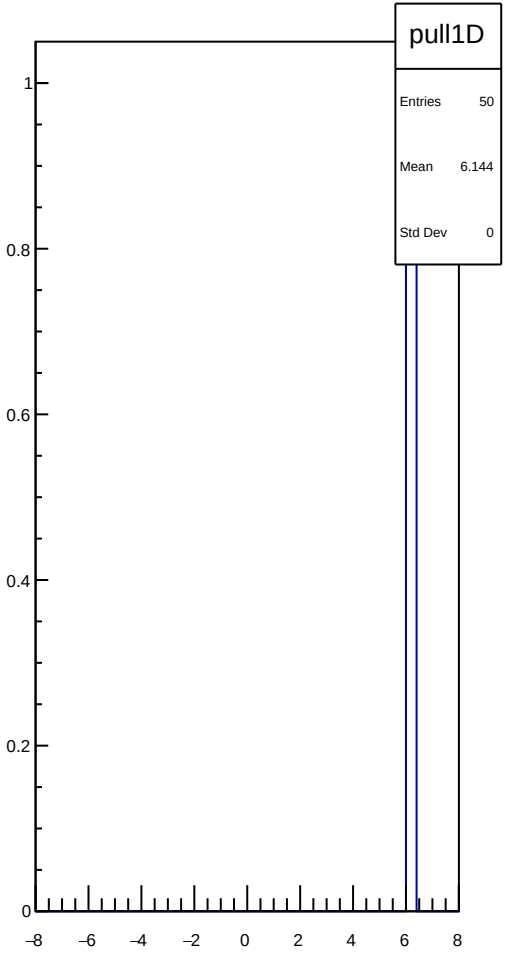

yield_sam5_rms vs run
χ² / ndf 1.561e+04 / 49
p0 0.02028 ± 2.052e–05
0.035
0.03
0.025
0.02
0.015
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

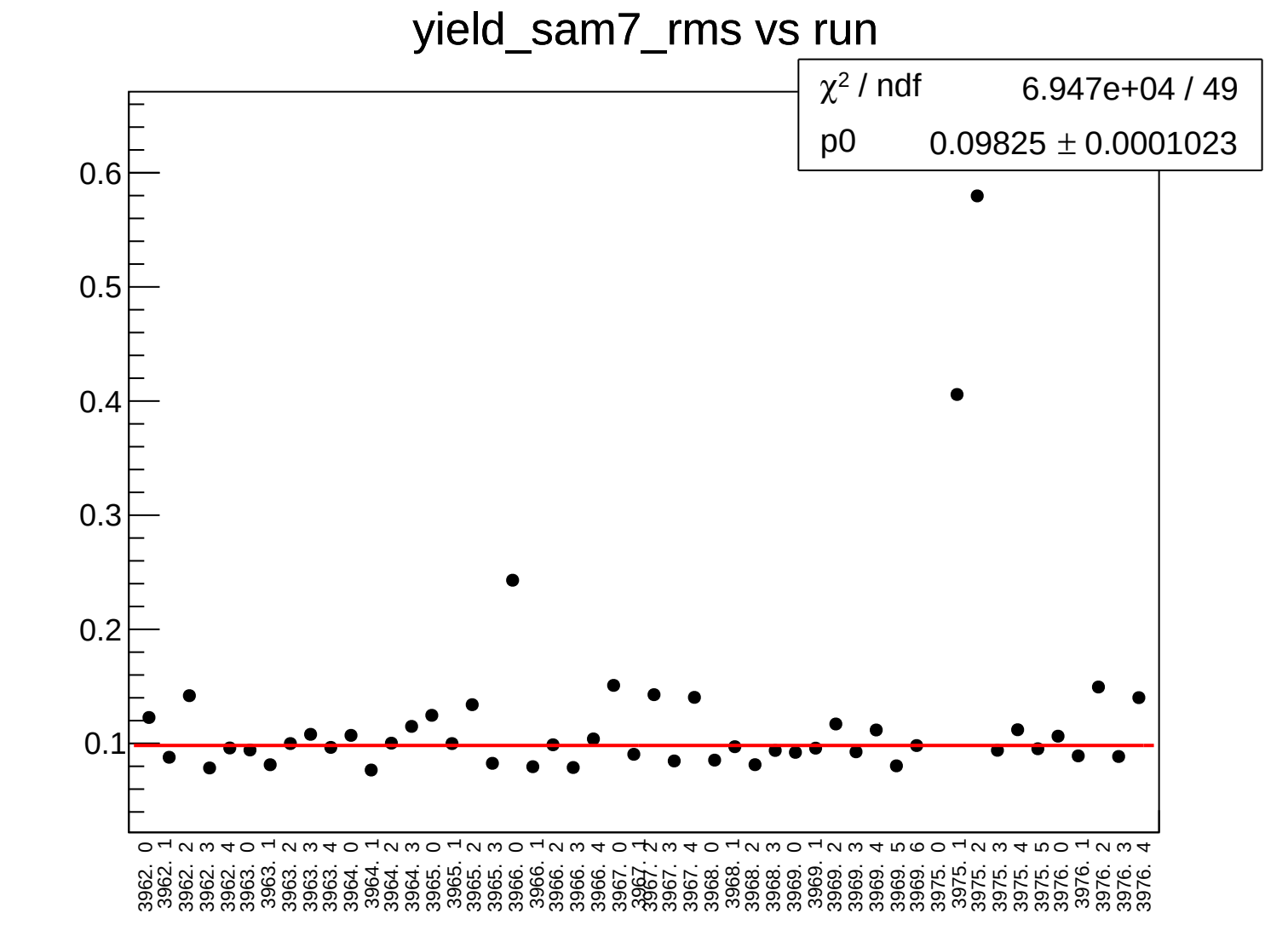

yield_sam6_mean vs run
χ² / ndf 1.468e+06 / 49
p0 11.15 ± 0.0001044
11.8
11.7
11.6
11.5
11.4
11.3
11.2
11.1
11
pull
Entries 50
Mean 158.5
Std Dev 122.6
600
500
400
300
200
100
0
−100
−200

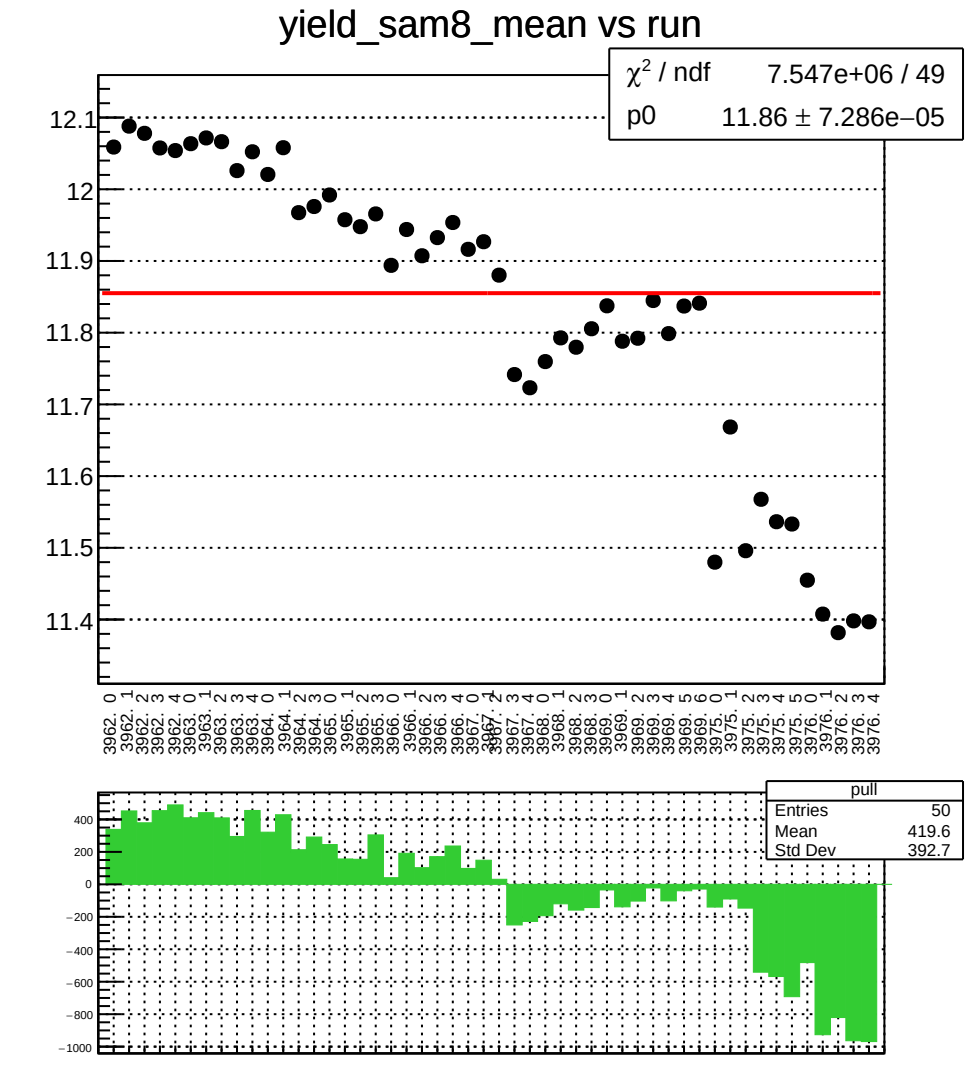

pull1D
Entries 50
Mean −2.014
Std Dev 3.96
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

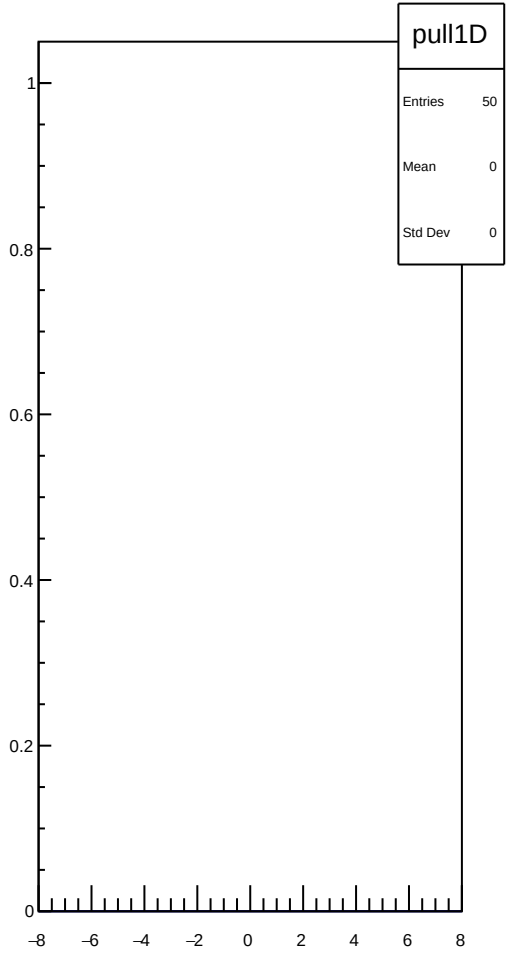

yield_sam6_rms vs run
χ² / ndf 5.247e+04 / 49
p0 0.07155 ± 7.38e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

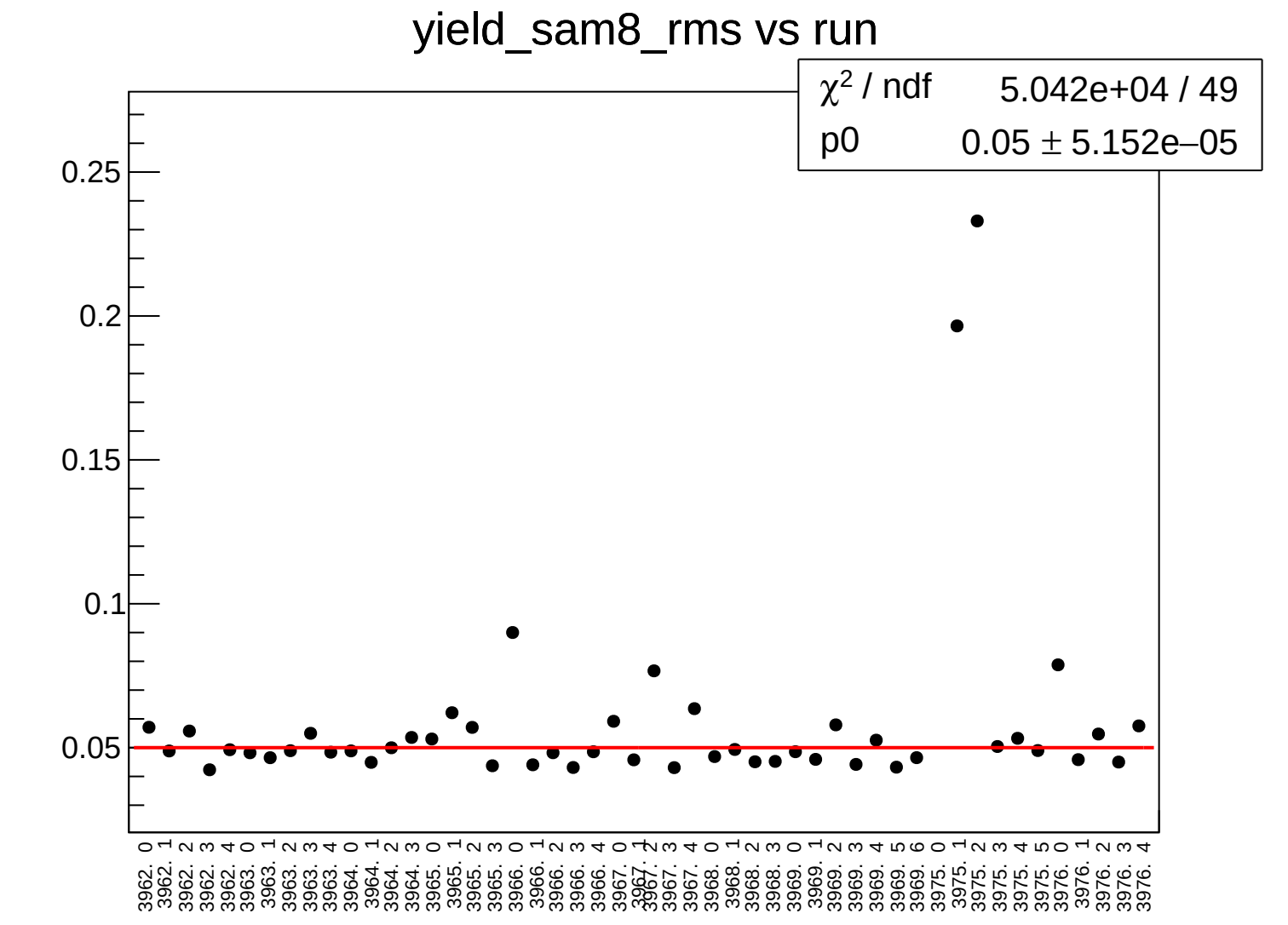

yield_sam7_mean vs run
χ² / ndf 5.375e+06 / 49
p0 27.79 ± 0.0001446
28.4
28.2
28
27.8
27.6
27.4
27.2
27
pull
Entries 50
Mean 411.4
Std Dev 388.4
600
400
200
0
−200
−400

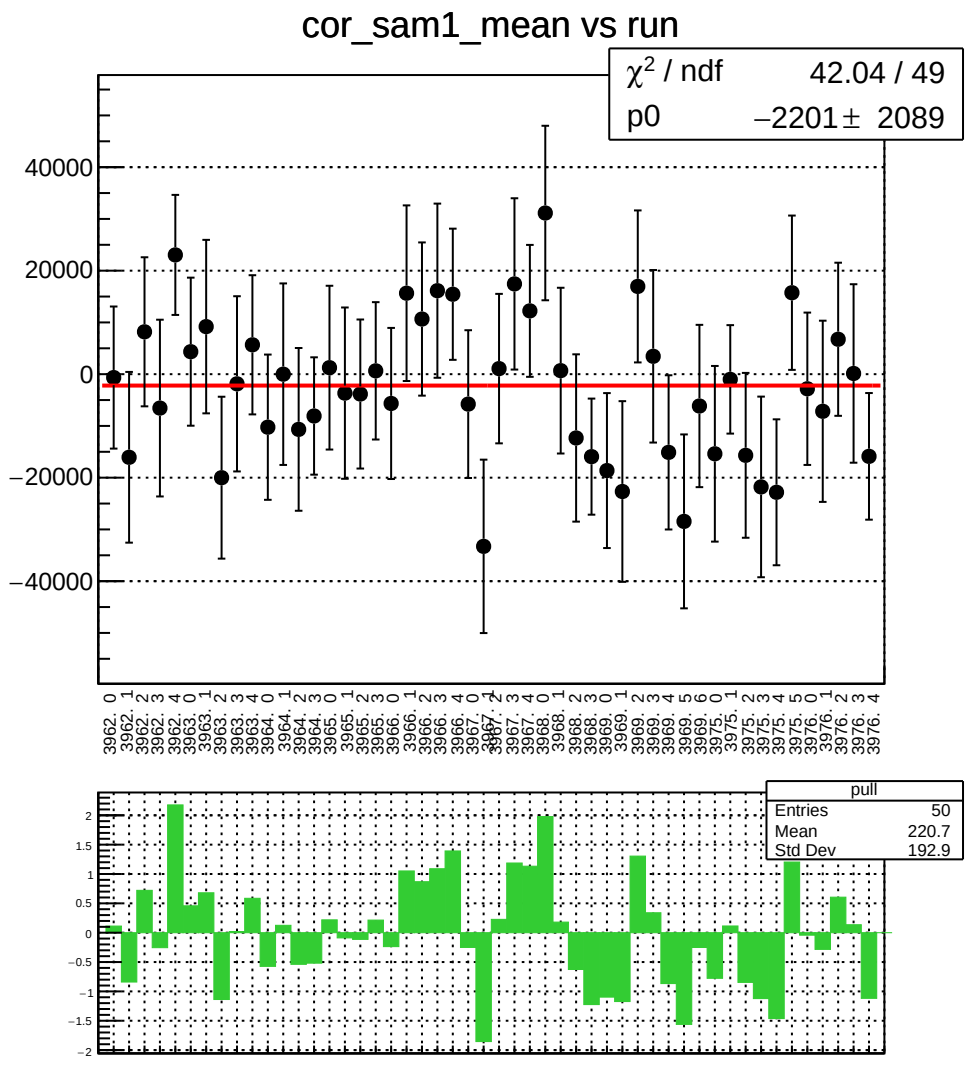

pull1D
Entries 50
Mean 6.144
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

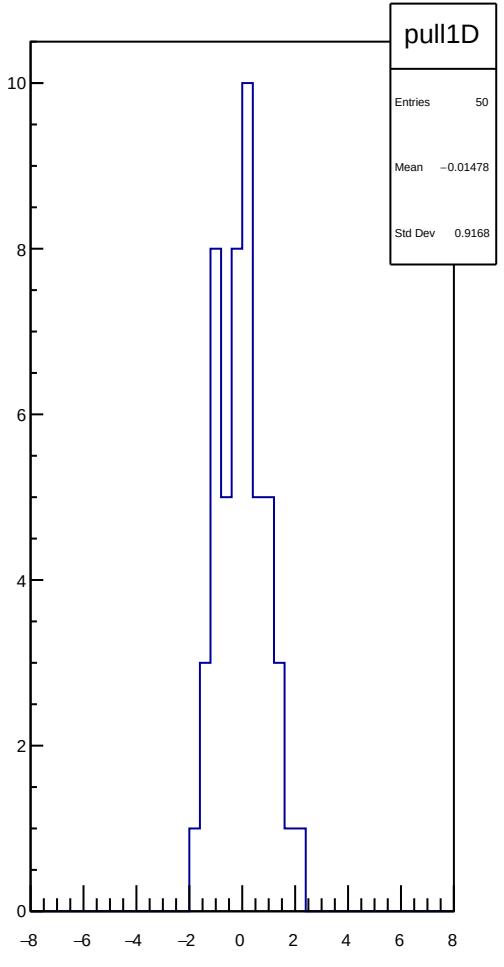

yield_sam7_rms vs run
χ² / ndf 6.947e+04 / 49
p0 0.09825 ± 0.0001023
0.6
0.5
0.4
0.3
0.2
0.1
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

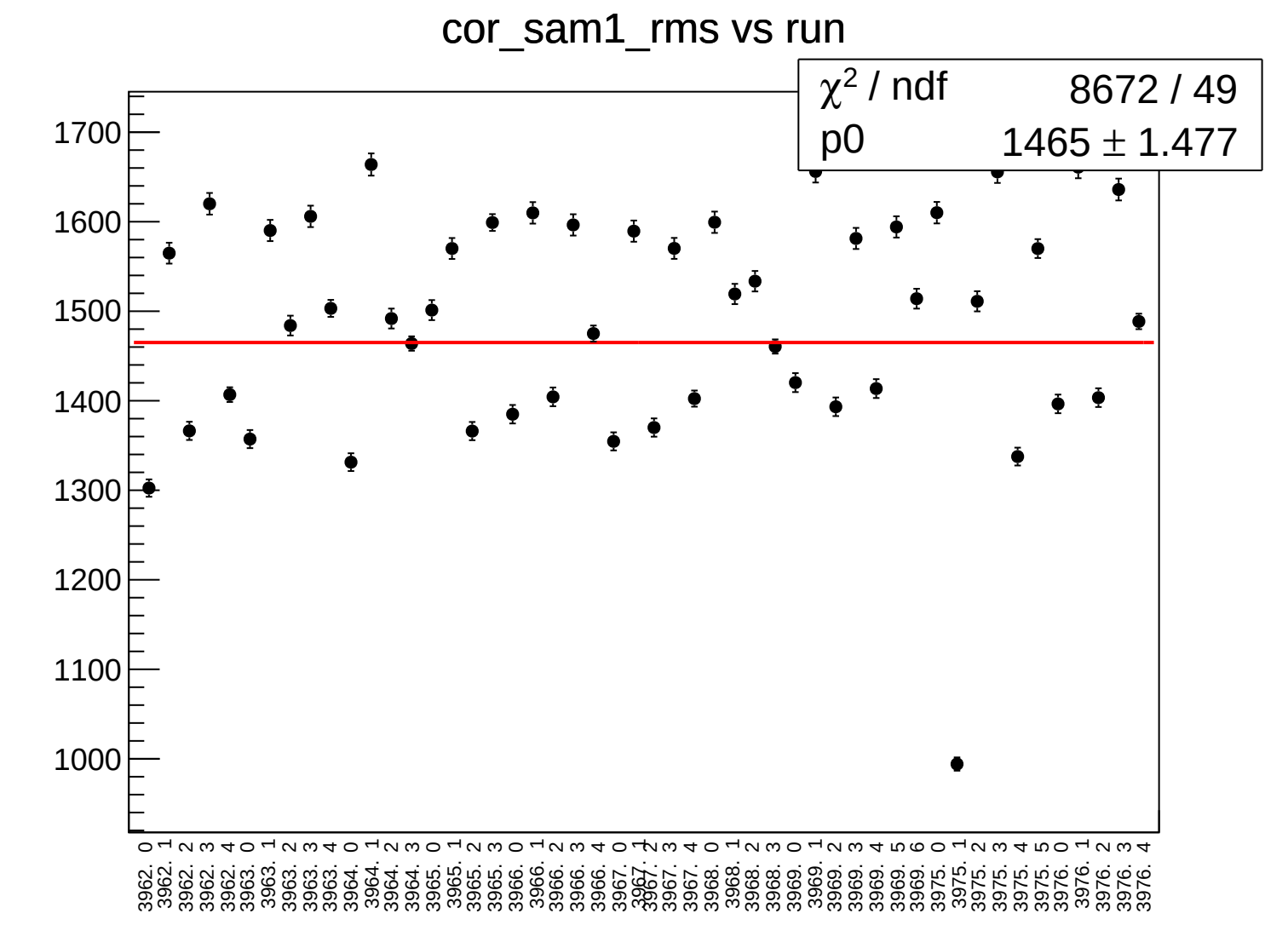

yield_sam8_mean vs run
χ² / ndf 7.547e+06 / 49
p0 11.86 ± 7.286e−05
12.1
12
11.9
11.8
11.7
11.6
11.5
11.4
pull
Entries 50
Mean 419.6
Std Dev 392.7
400
200
0
−200
−400
−600
−800
−1000

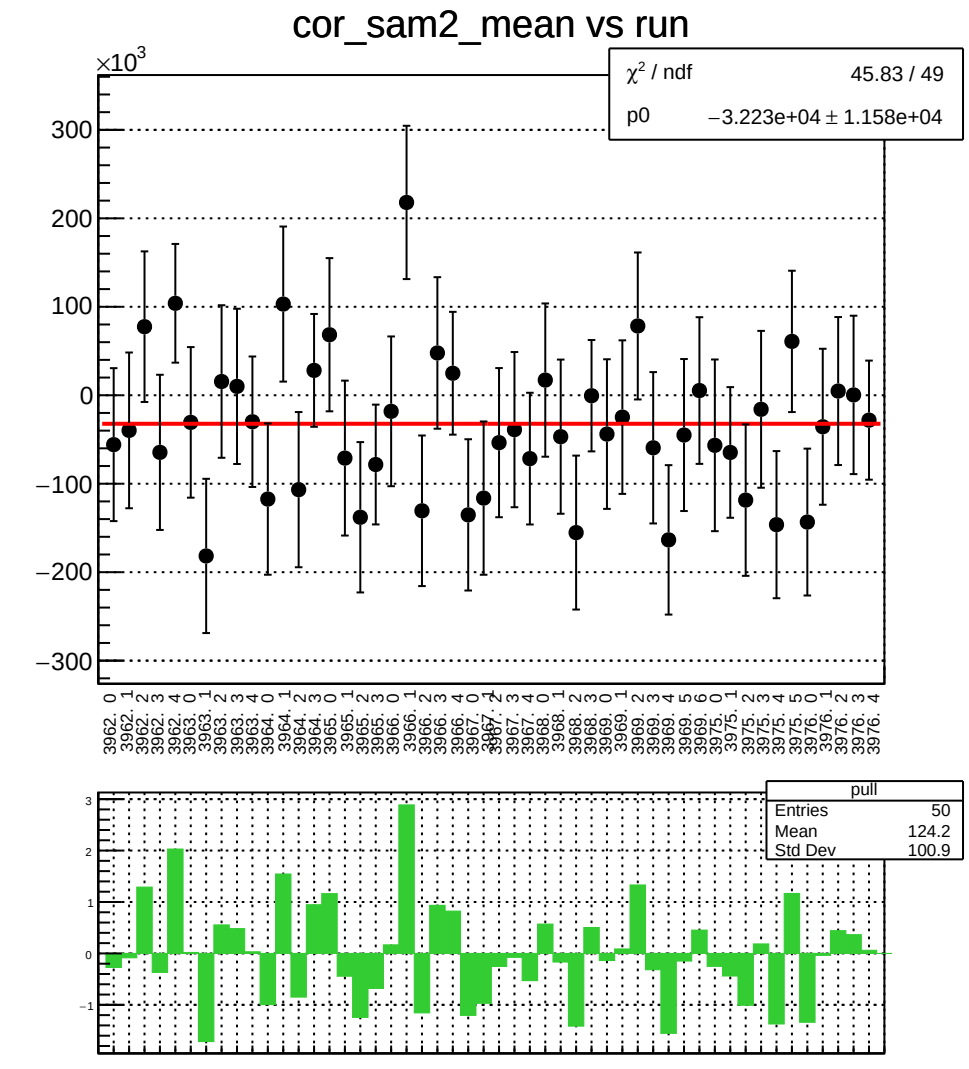

pull1D
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

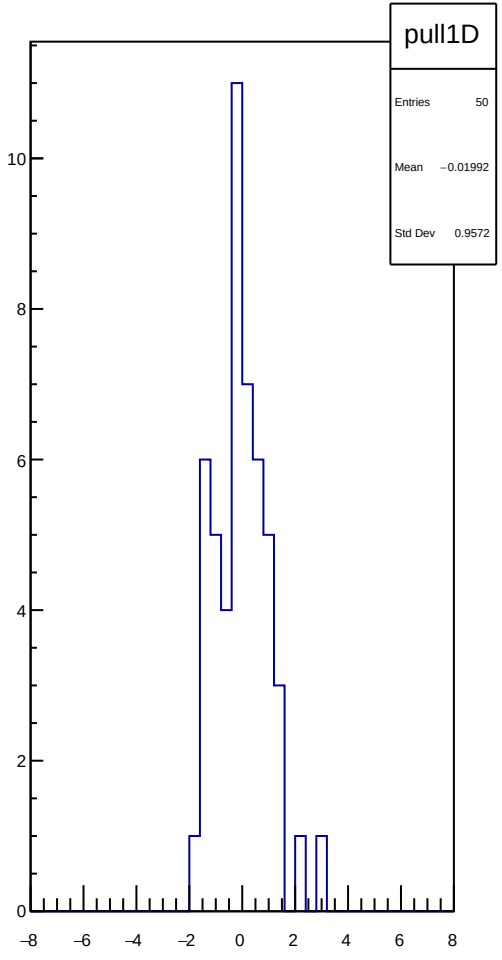

yield_sam8_rms vs run
χ² / ndf 5.042e+04 / 49
p0 0.05 ± 5.152e–05
0.25
0.2
0.15
0.1
0.05
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

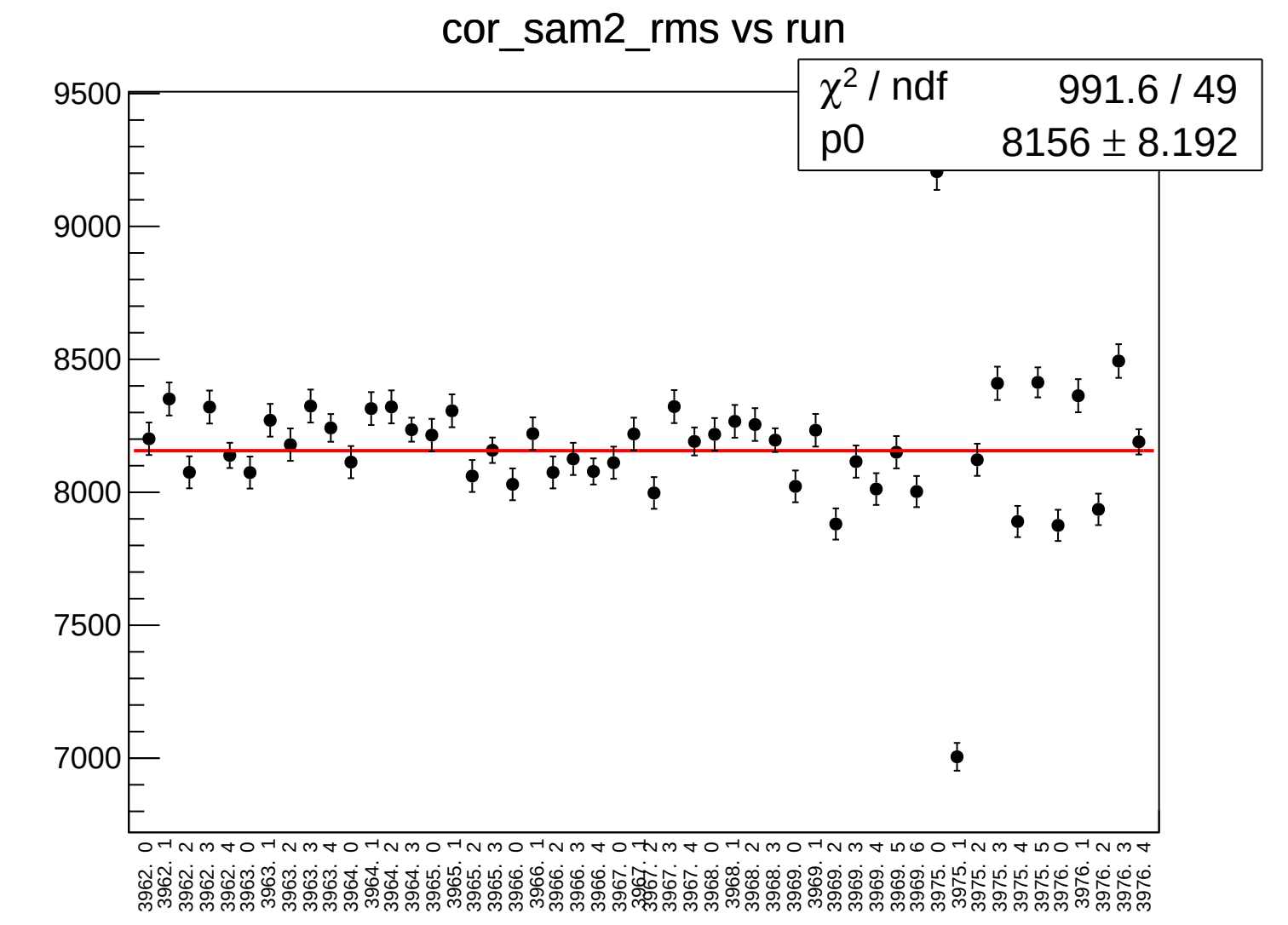

cor_sam1_mean vs run
χ² / ndf 42.04 / 49
p0 −2201 ± 2089
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 220.7
Std Dev 192.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

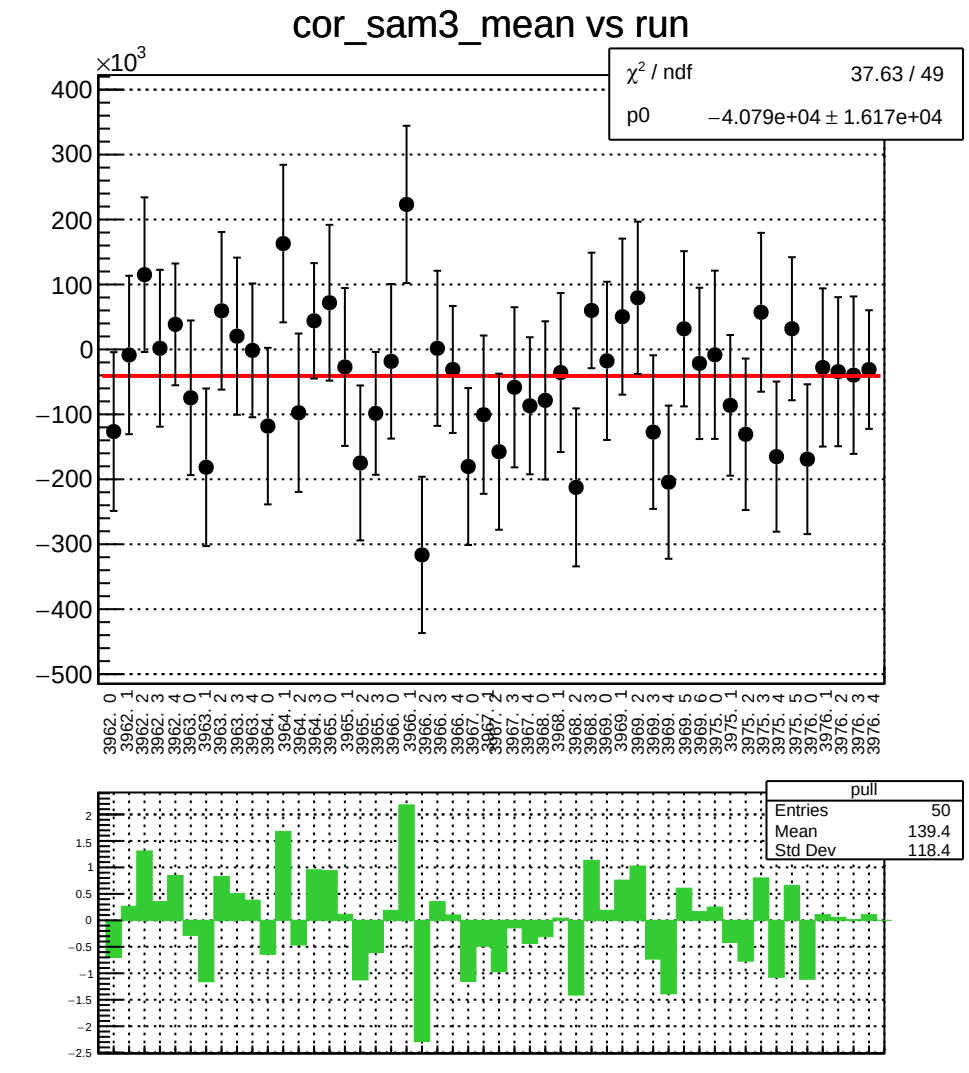

pull1D
Entries 50
Mean −0.01478
Std Dev 0.9168
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

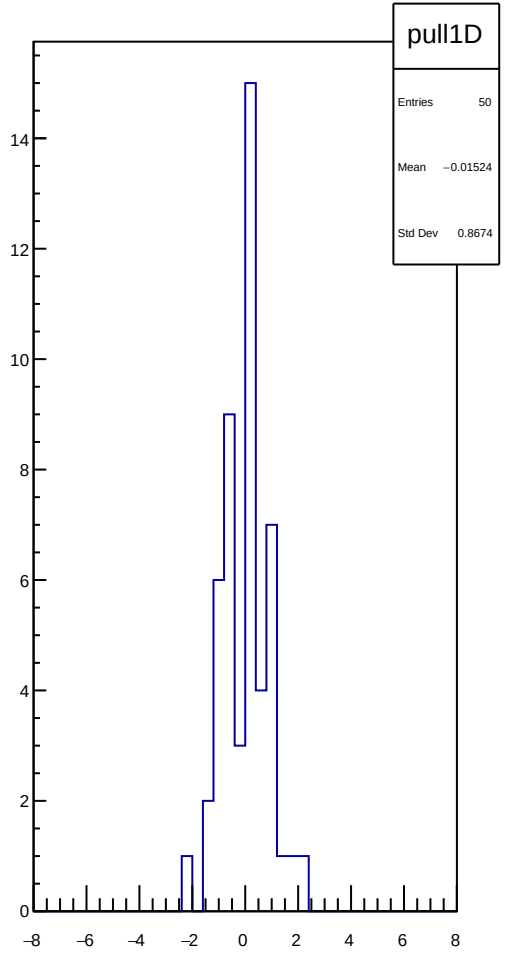

cor_sam1_rms vs run
χ² / ndf 8672 / 49
p0 1465 ± 1.477
1700
1600
1500
1400
1300
1200
1100
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

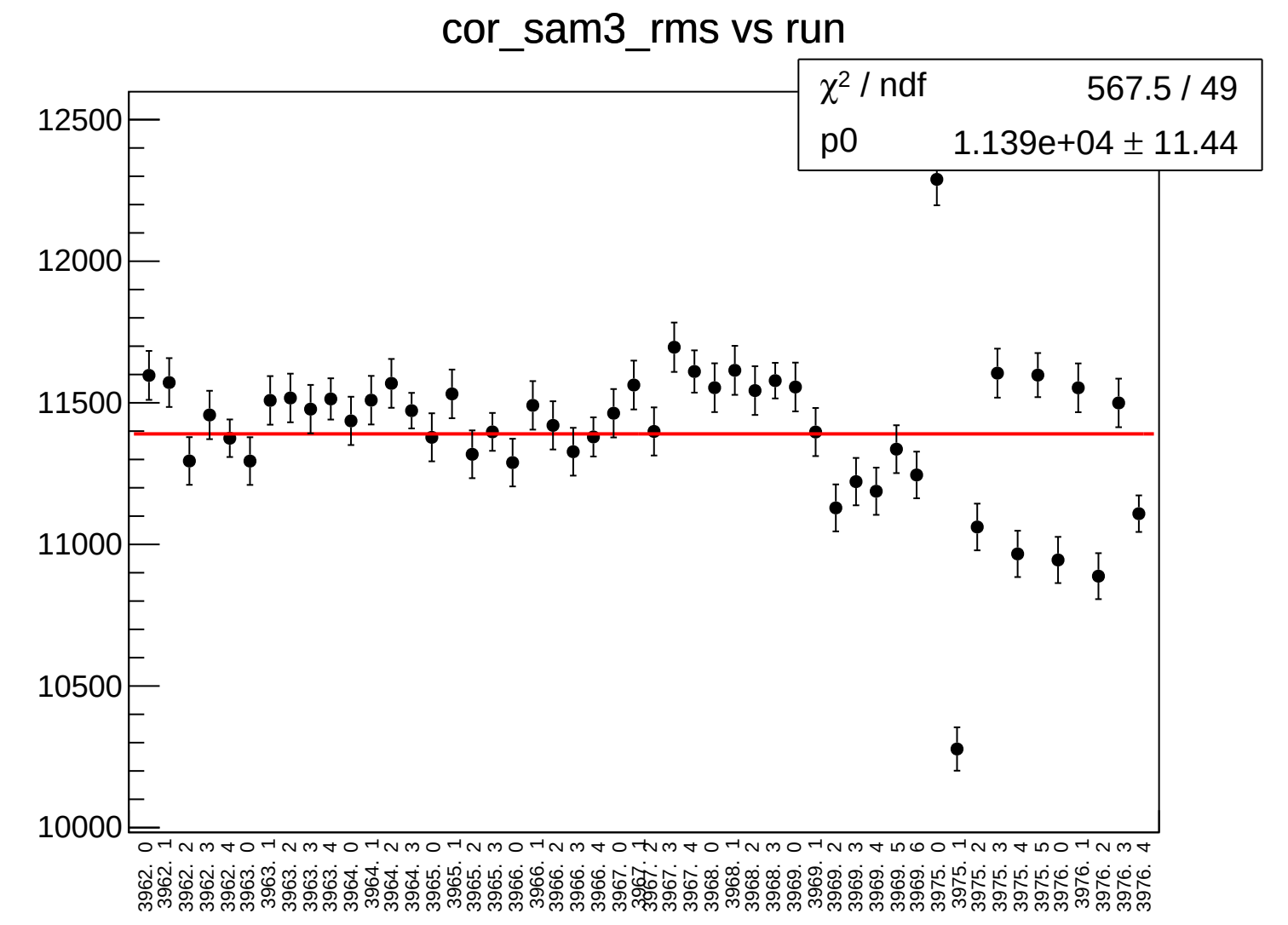

cor_sam2_mean vs run
×10^3
χ² / ndf 45.83 / 49
p0 −3.223e+04 ± 1.158e+04
300
200
100
0
−100
−200
−300
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 124.2
Std Dev 100.9
3
2
1
0
−1

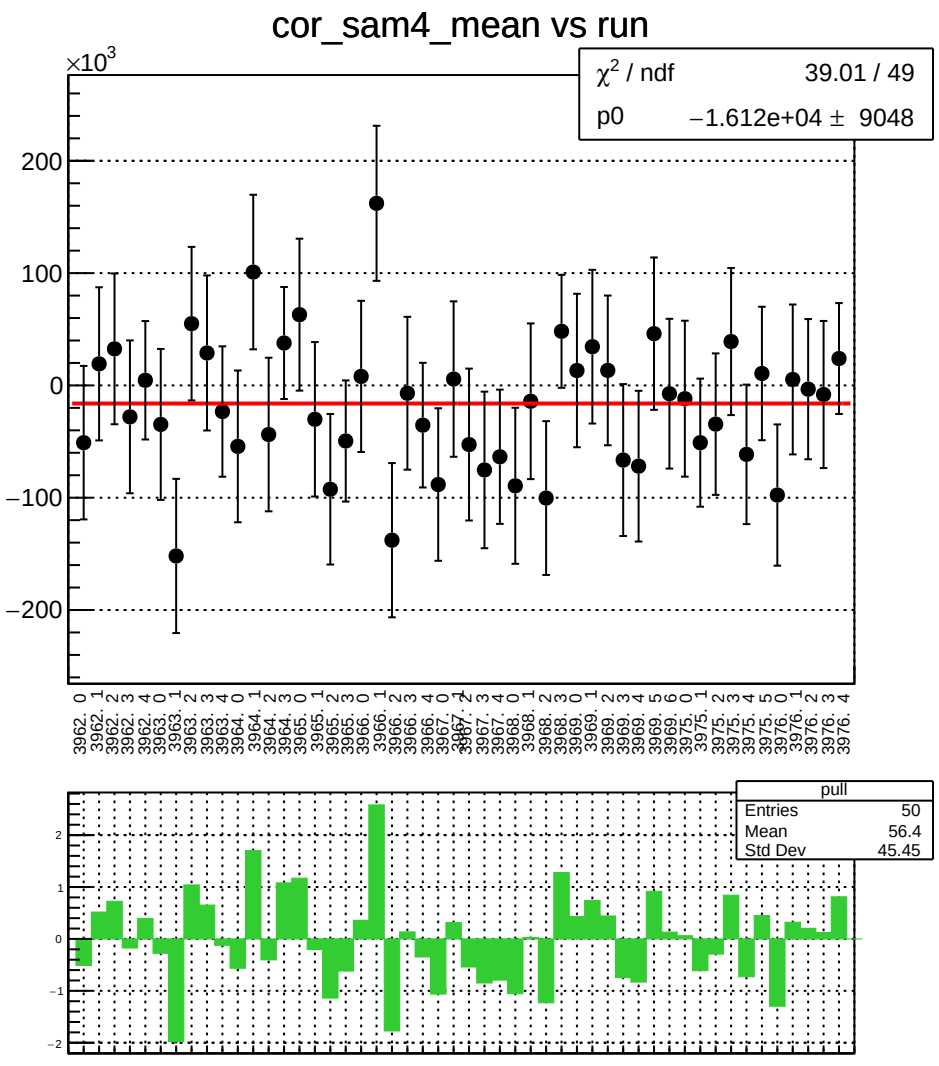

pull1D
Entries 50
Mean −0.01992
Std Dev 0.9572
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

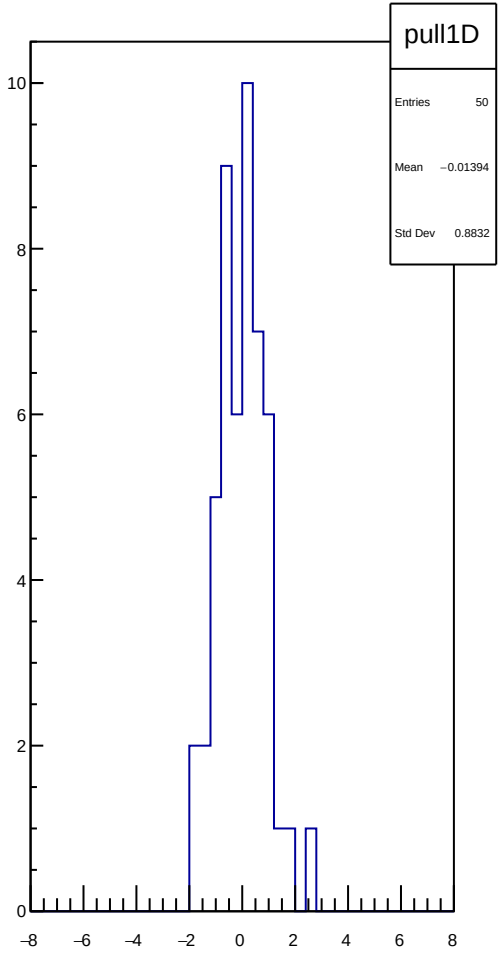

cor_sam2_rms vs run
χ² / ndf 991.6 / 49
p0 8156 ± 8.192
9500
9000
8500
8000
7500
7000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

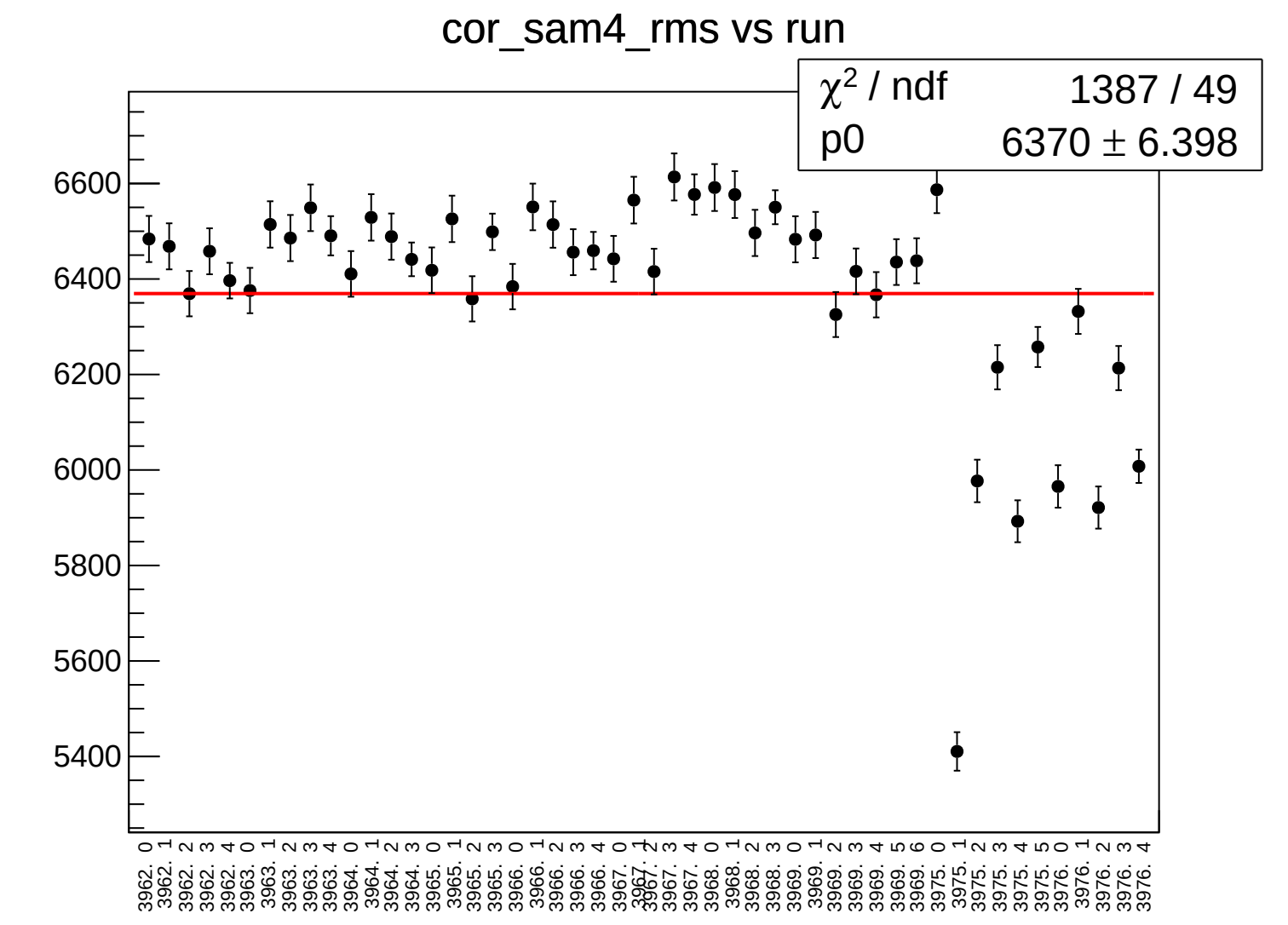

cor_sam3_mean vs run
×10^3
χ² / ndf 37.63 / 49
p0 −4.079e+04 ± 1.617e+04
pull
Entries 50
Mean 139.4
Std Dev 118.4

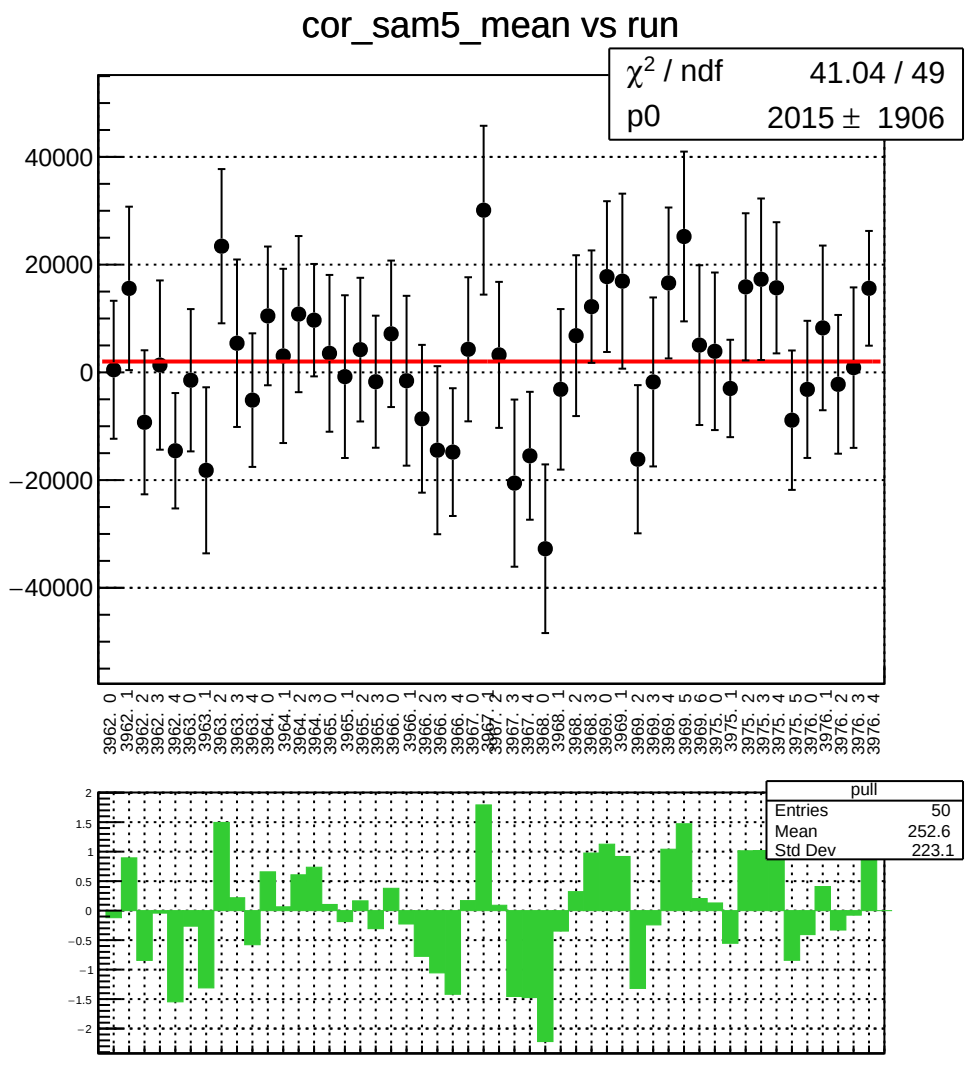

pull1D
Entries 50
Mean −0.01524
Std Dev 0.8674

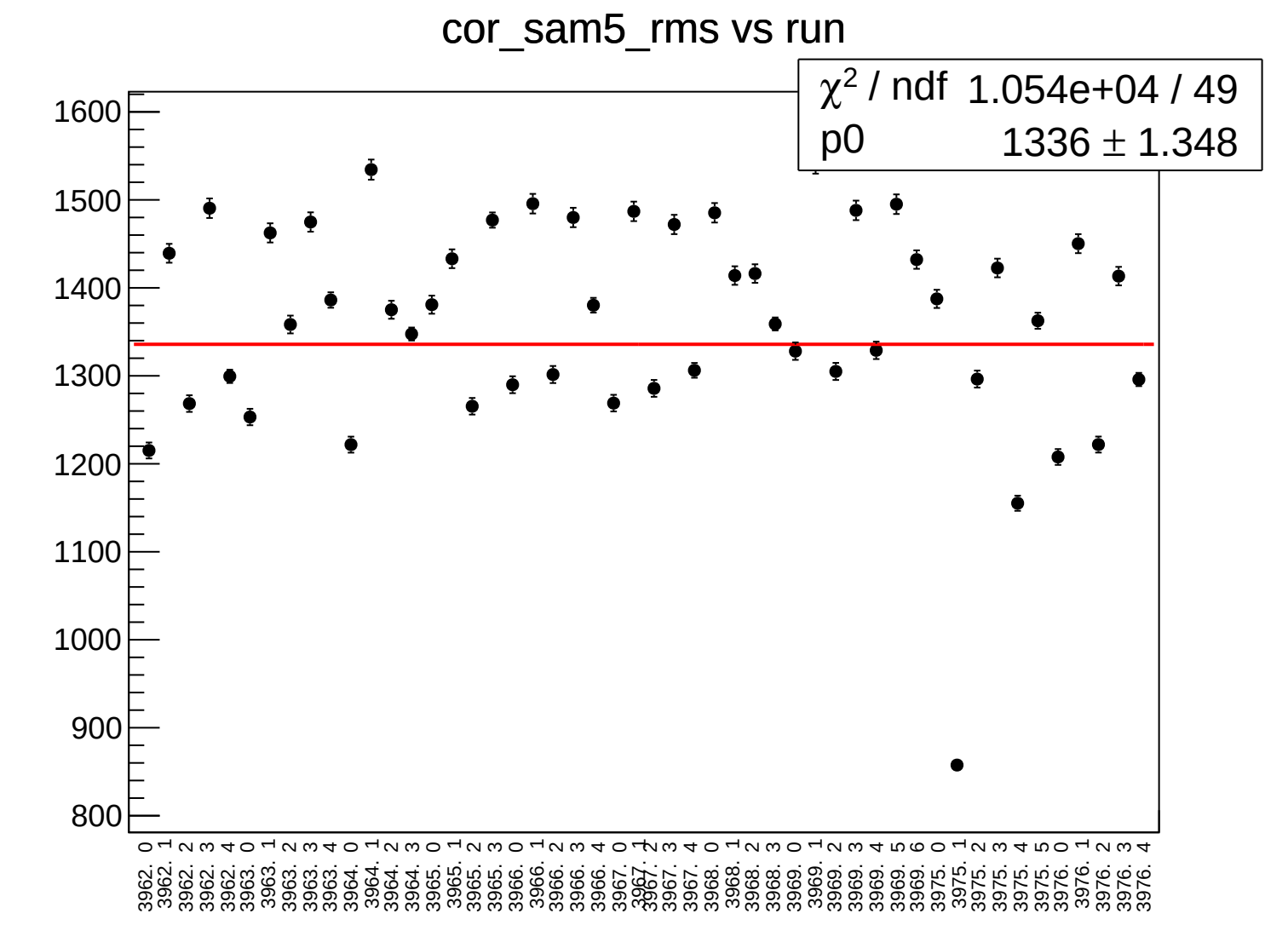

cor_sam3_rms vs run
χ² / ndf 567.5 / 49
p0 1.139e+04 ± 11.44
12500
12000
11500
11000
10500
10000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

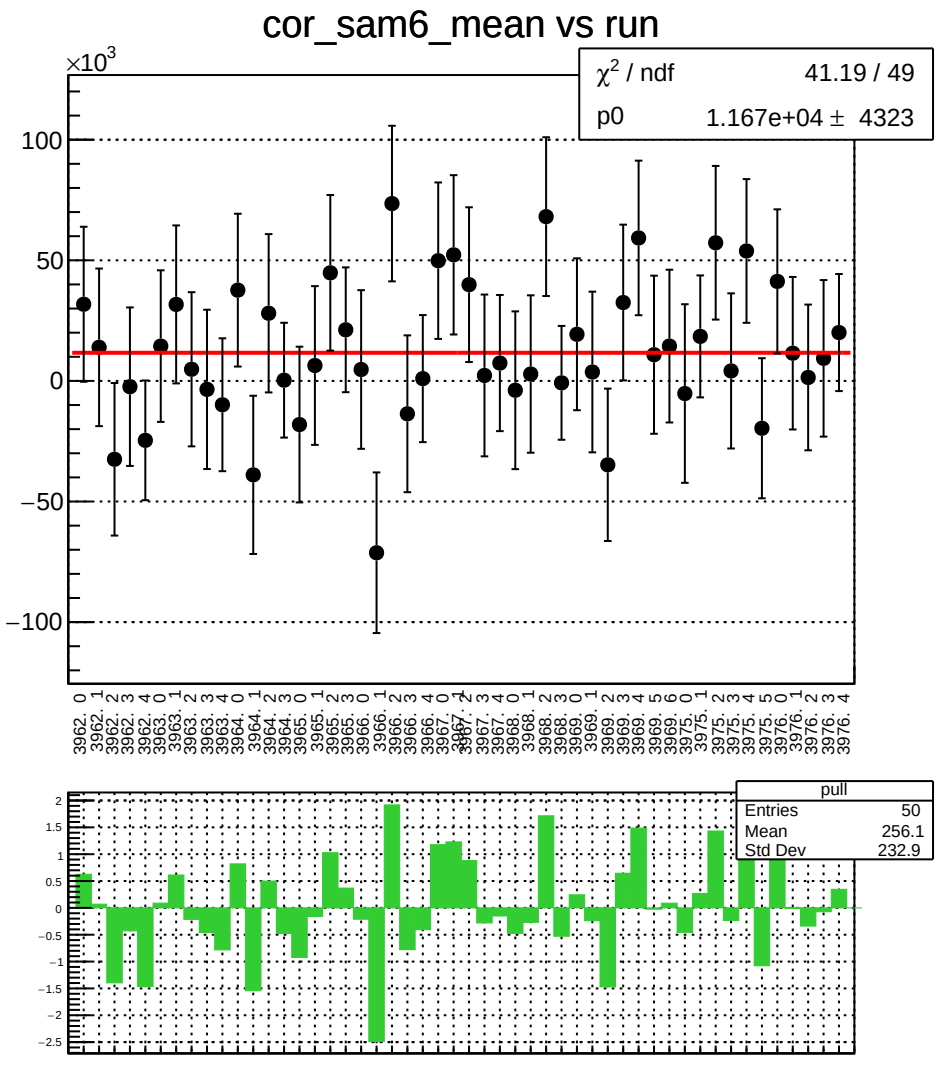

cor_sam4_mean vs run
×10^3
χ² / ndf 39.01 / 49
p0 −1.612e+04 ± 9048
200
100
0
−100
−200
pull
Entries 50
Mean 56.4
Std Dev 45.45
2
1
0
−1
−2

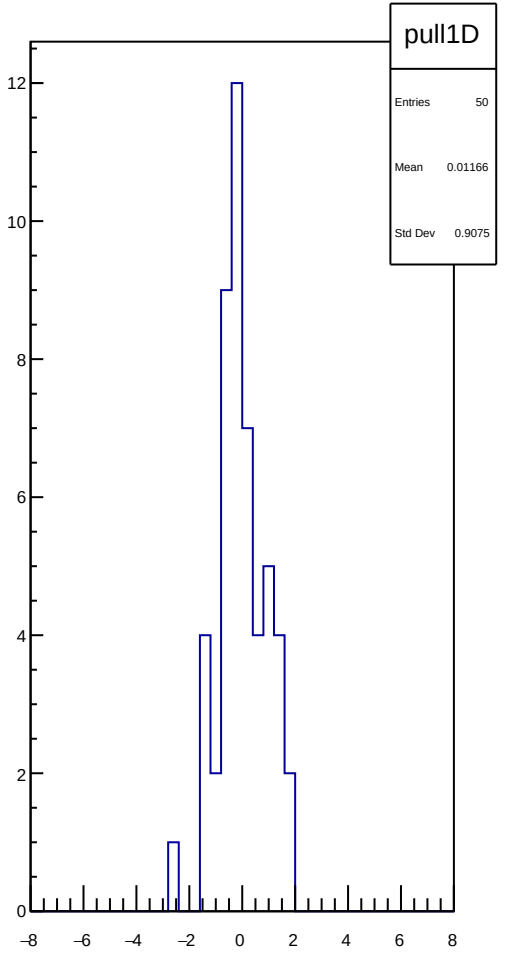

pull1D
Entries 50
Mean −0.01394
Std Dev 0.8832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

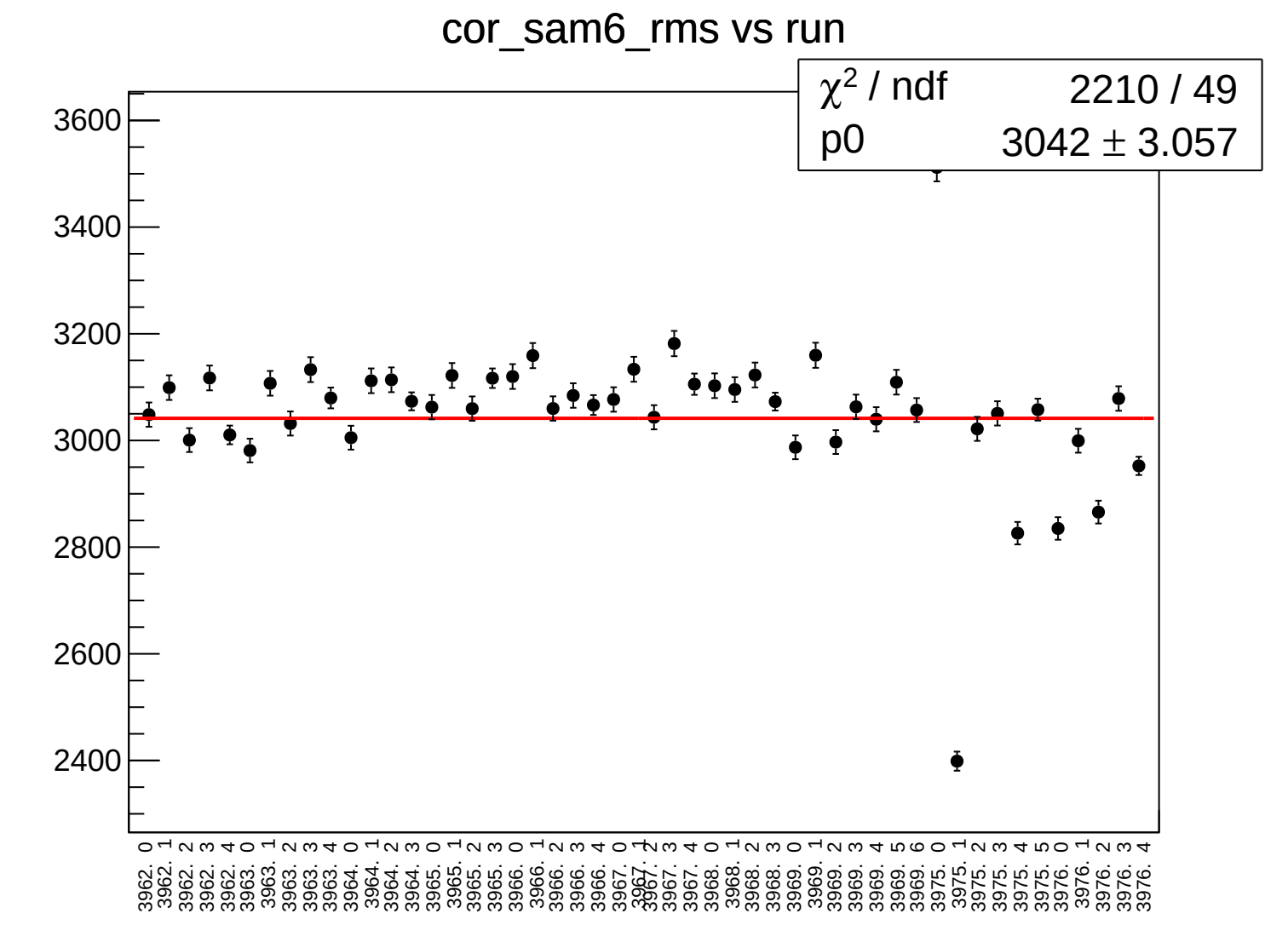

cor_sam4_rms vs run
χ² / ndf 1387 / 49
p0 6370 ± 6.398
6600
6400
6200
6000
5800
5600
5400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

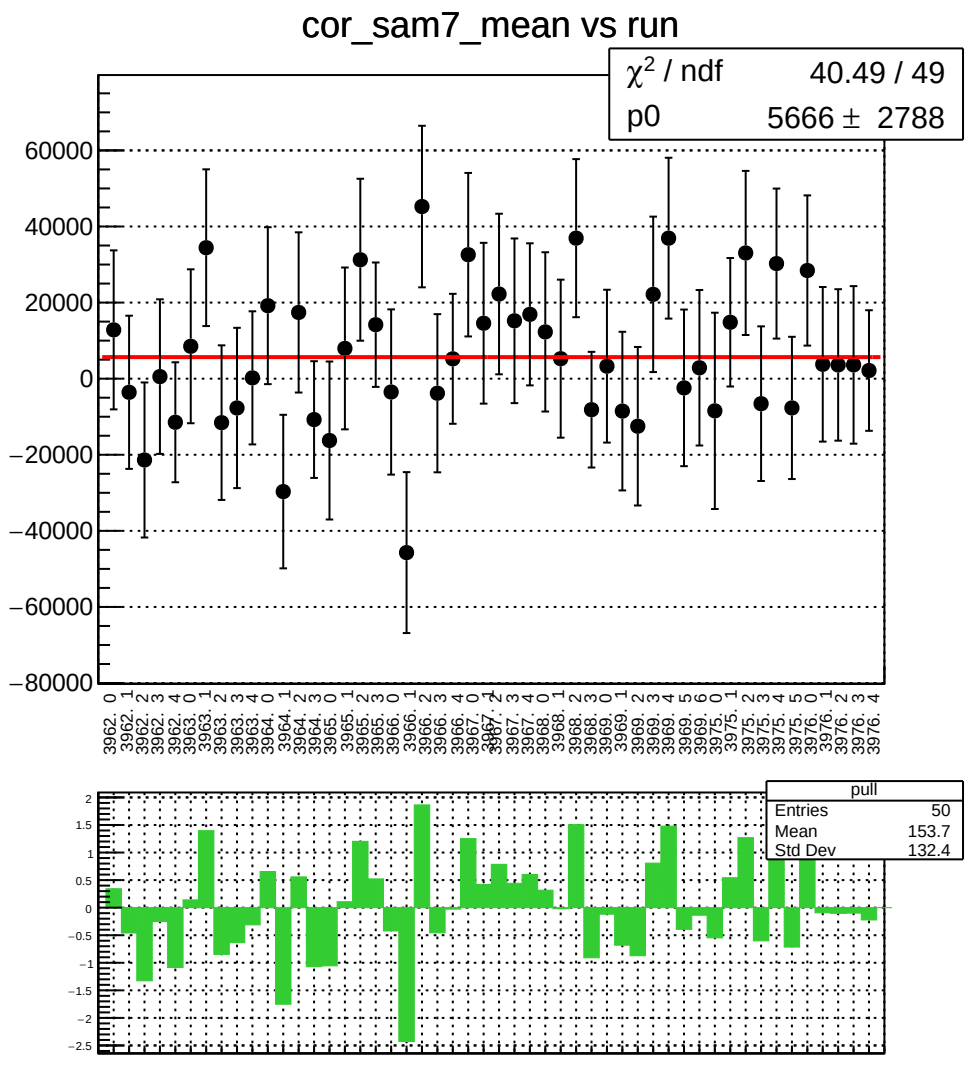

cor_sam5_mean vs run
χ² / ndf 41.04 / 49
p0 2015 ± 1906
40000
20000
0
−20000
−40000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 252.6
Std Dev 223.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.009452
Std Dev 0.9059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

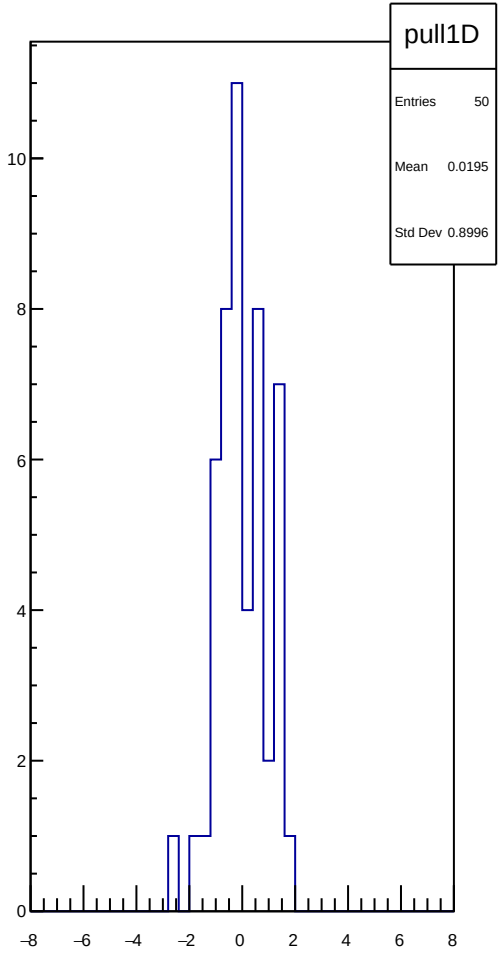

cor_sam5_rms vs run
χ² / ndf 1.054e+04 / 49
p0 1336 ± 1.348
1600
1500
1400
1300
1200
1100
1000
900
800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

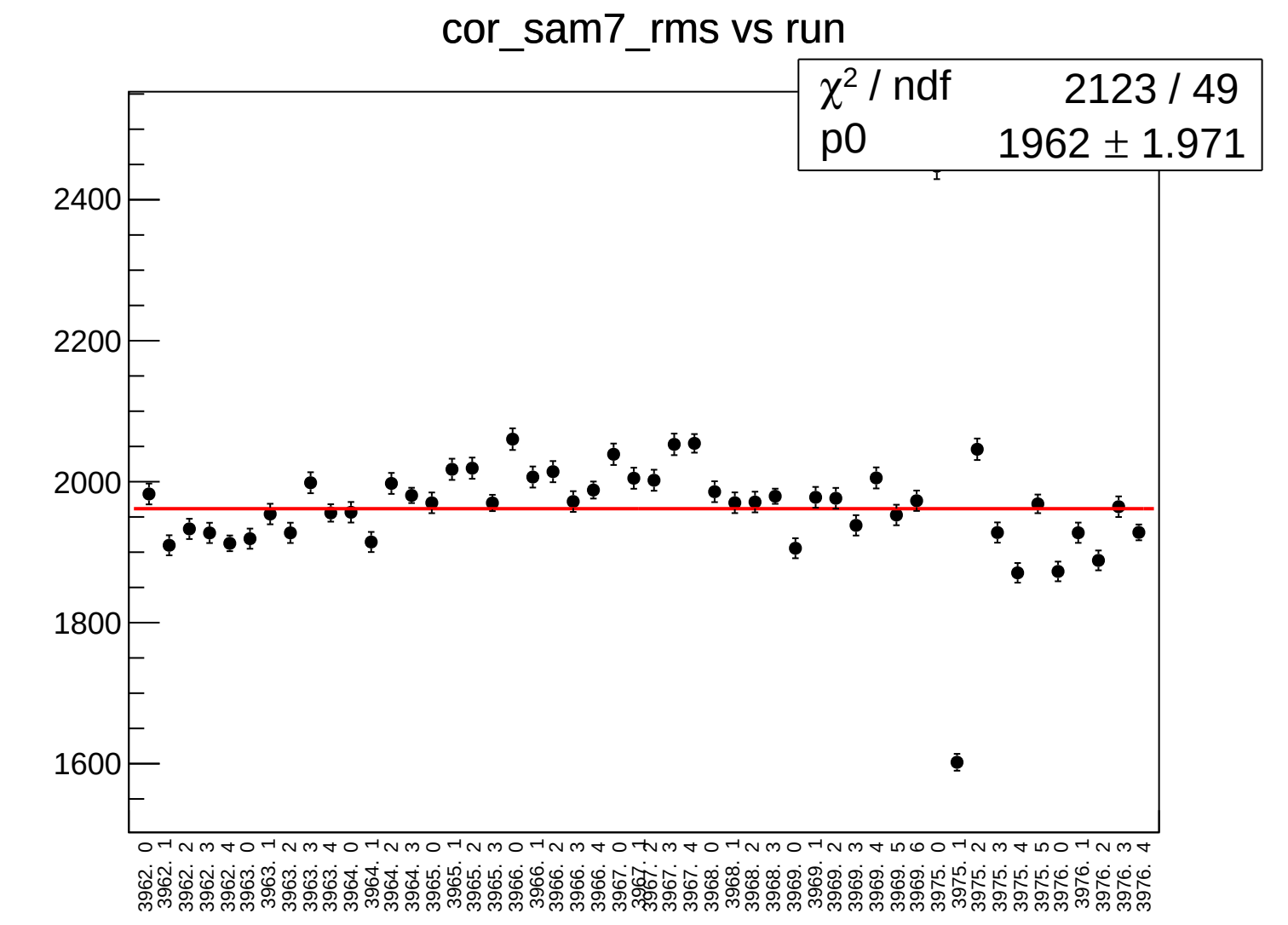

cor_sam6_mean vs run
×10^3
χ² / ndf 41.19 / 49
p0 1.167e+04 ± 4323
100
50
0
−50
−100
pull
Entries 50
Mean 256.1
Std Dev 232.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

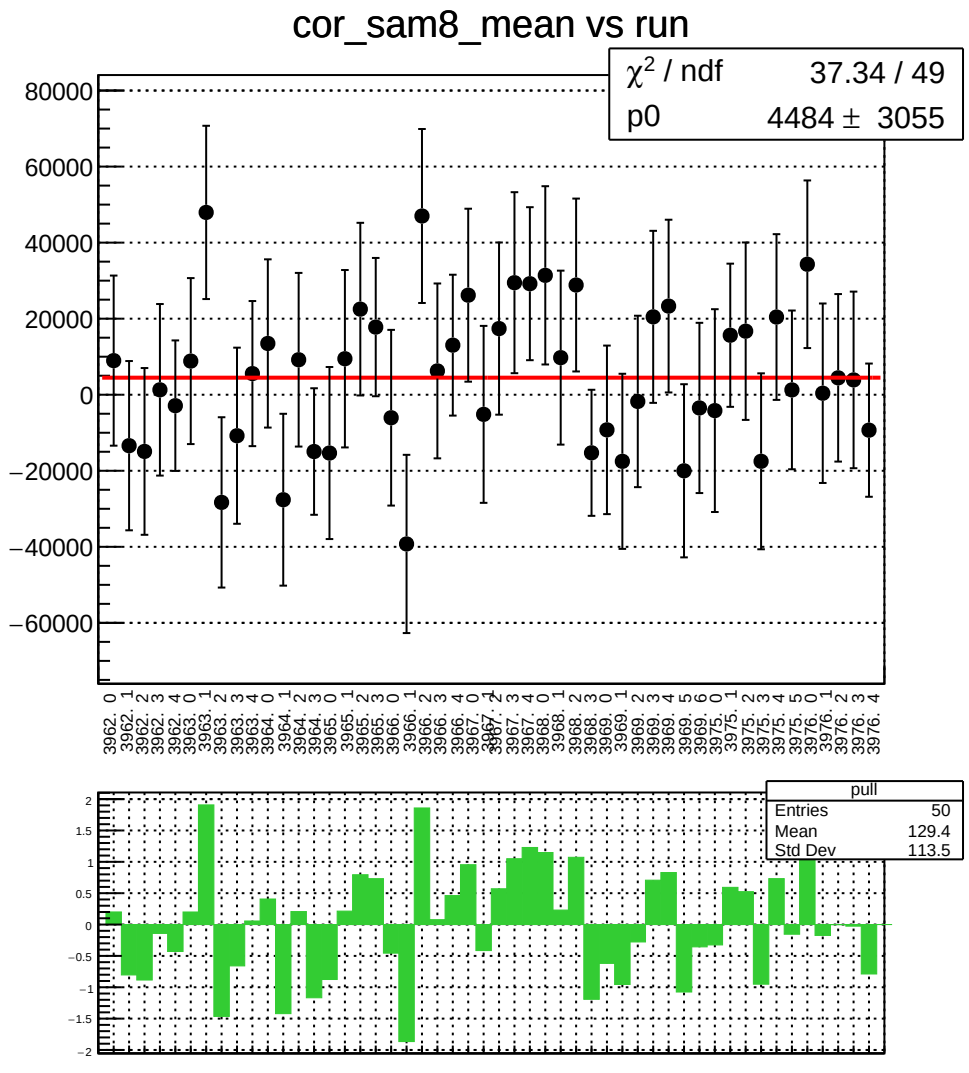

pull1D
Entries 50
Mean 0.01166
Std Dev 0.9075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

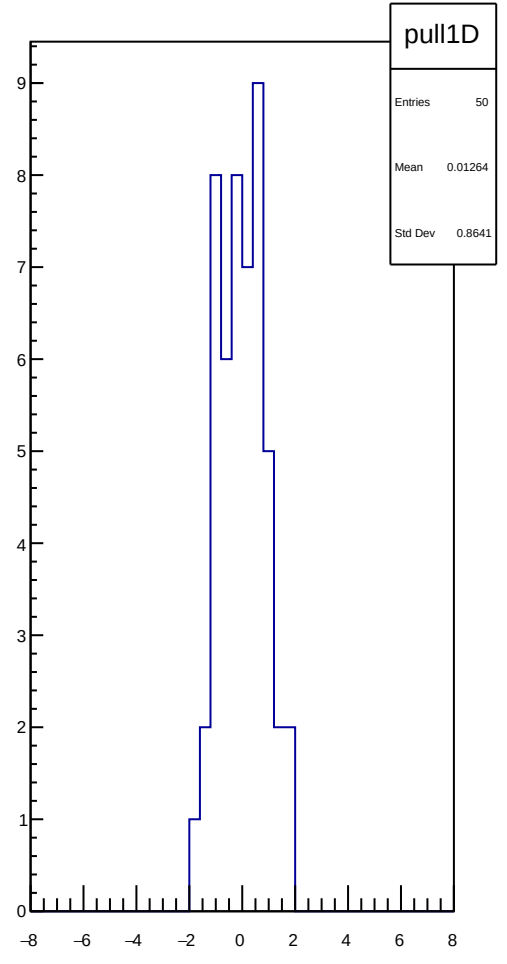

cor_sam6_rms vs run
χ² / ndf 2210 / 49
p0 3042 ± 3.057
3600
3400
3200
3000
2800
2600
2400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

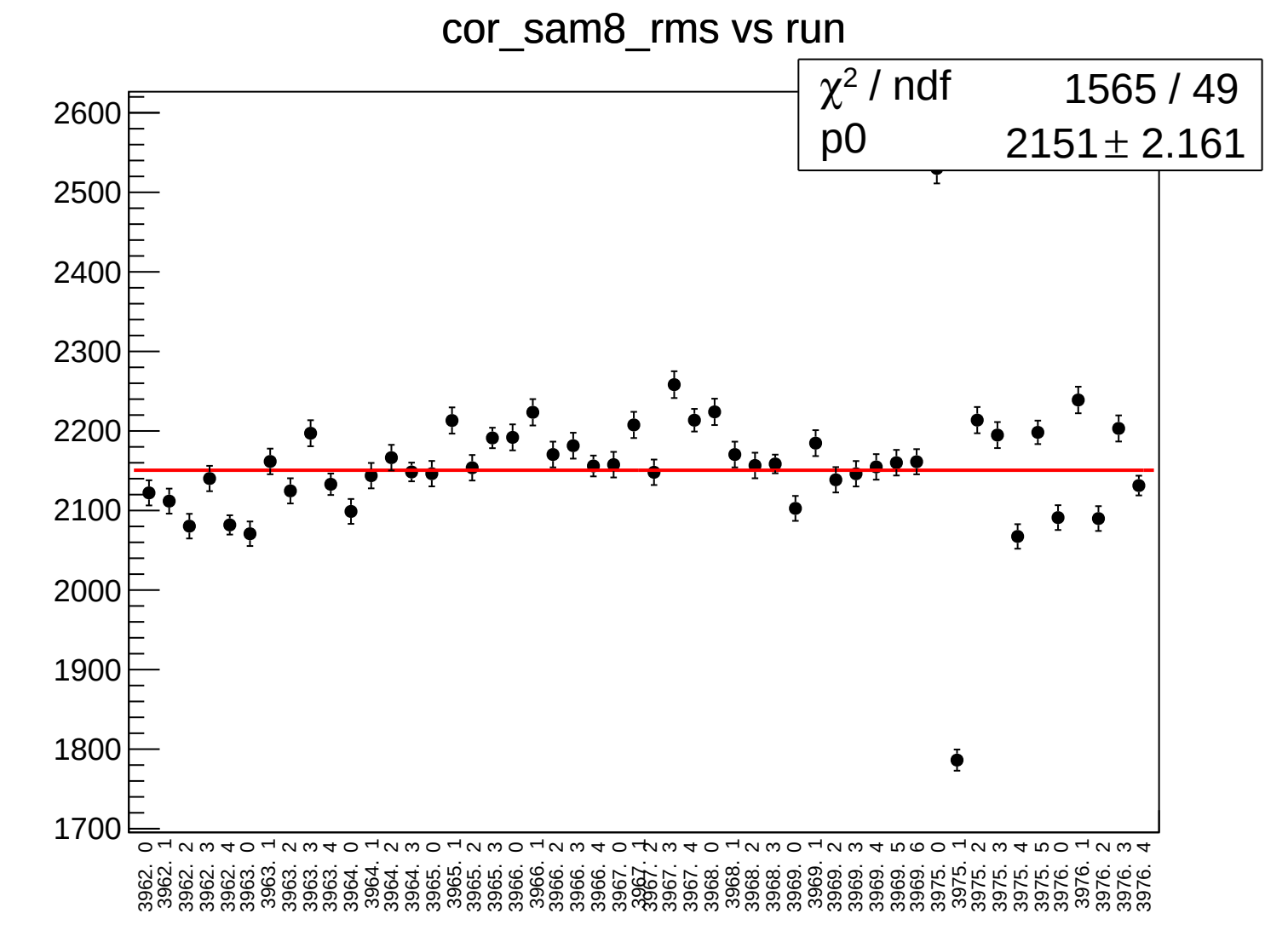

cor_sam7_mean vs run
χ² / ndf 40.49 / 49
p0 5666 ± 2788
pull
Entries 50
Mean 153.7
Std Dev 132.4

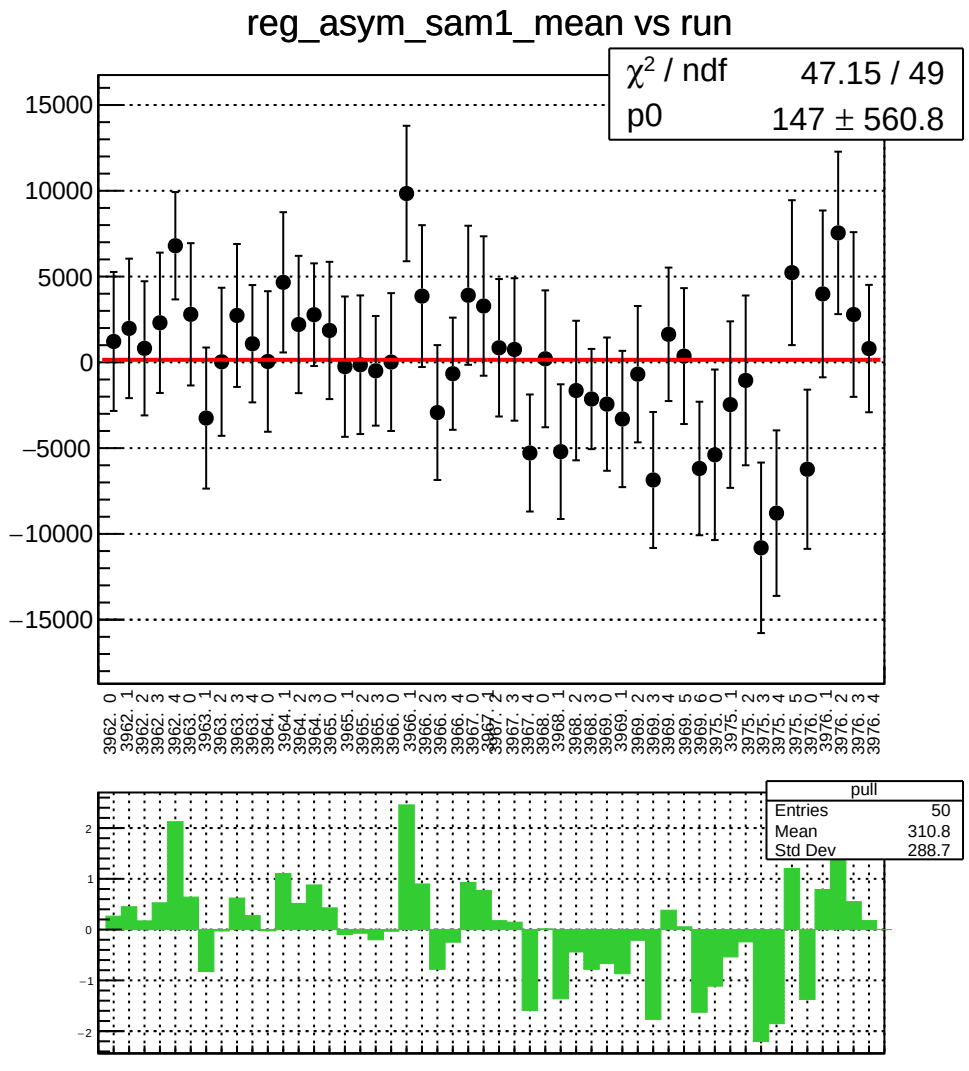

pull1D
Entries 50
Mean 0.0195
Std Dev 0.8996

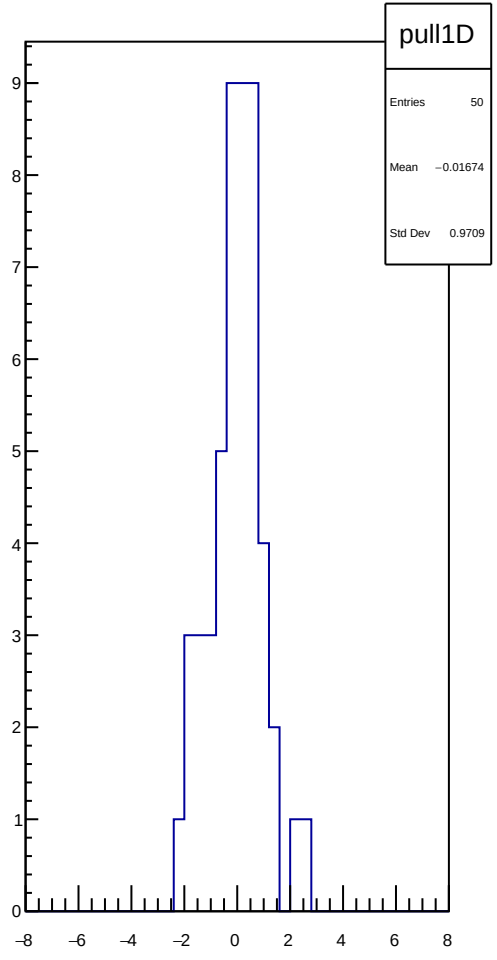

cor_sam7_rms vs run
χ² / ndf 2123 / 49
p0 1962 ± 1.971
2400
2200
2000
1800
1600
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

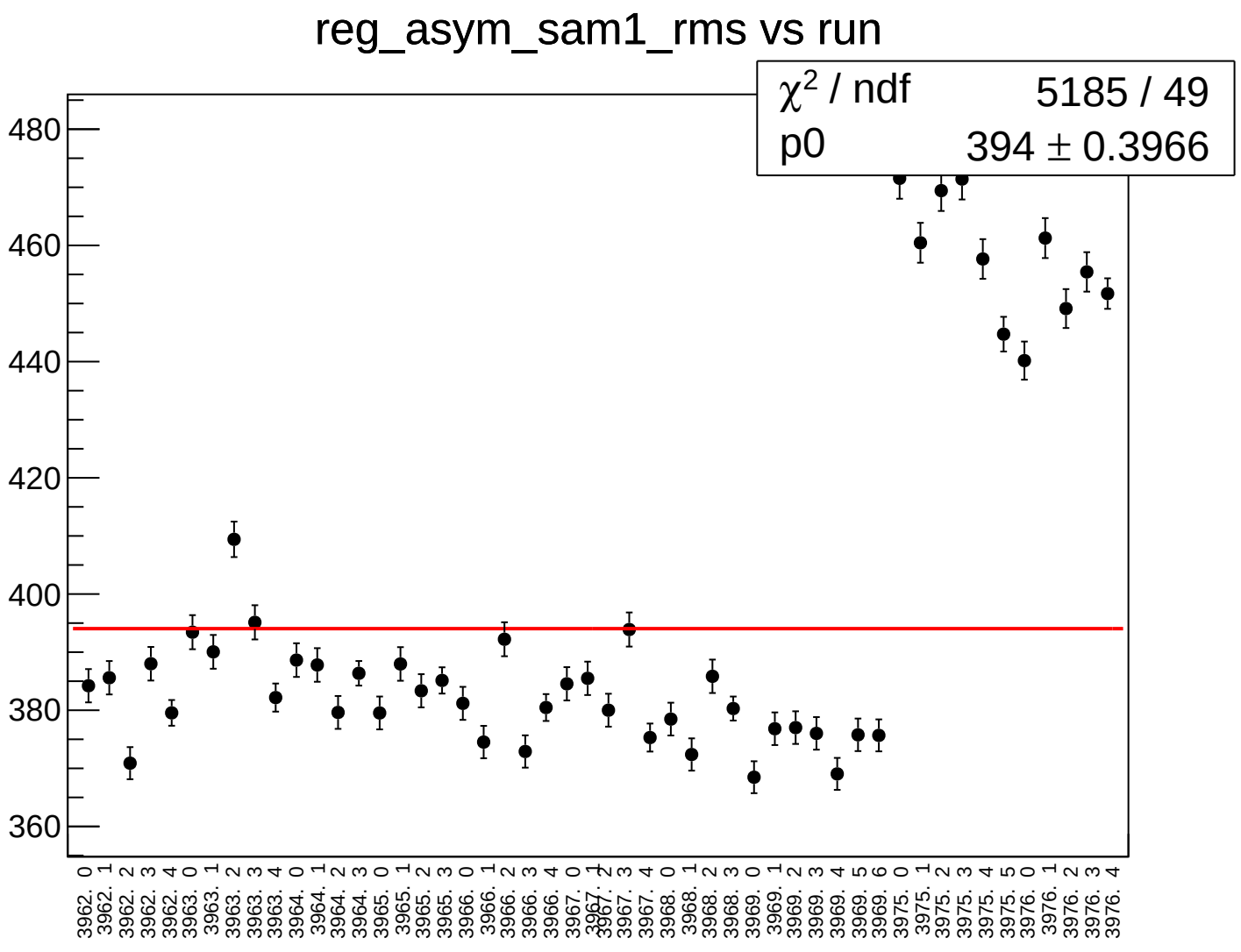

cor_sam8_mean vs run
χ² / ndf 37.34 / 49
p0 4484 ± 3055
pull
Entries 50
Mean 129.4
Std Dev 113.5

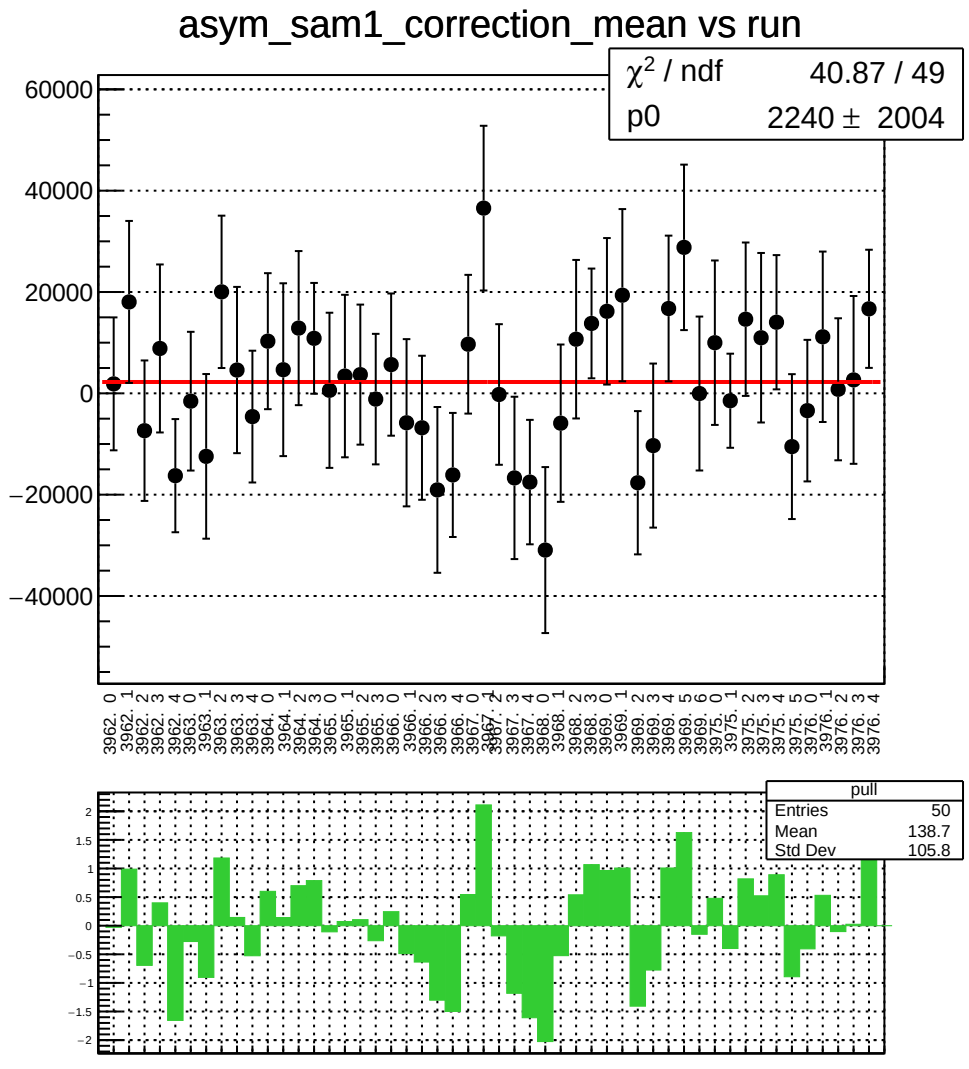

pull1D
Entries 50
Mean 0.01264
Std Dev 0.8641

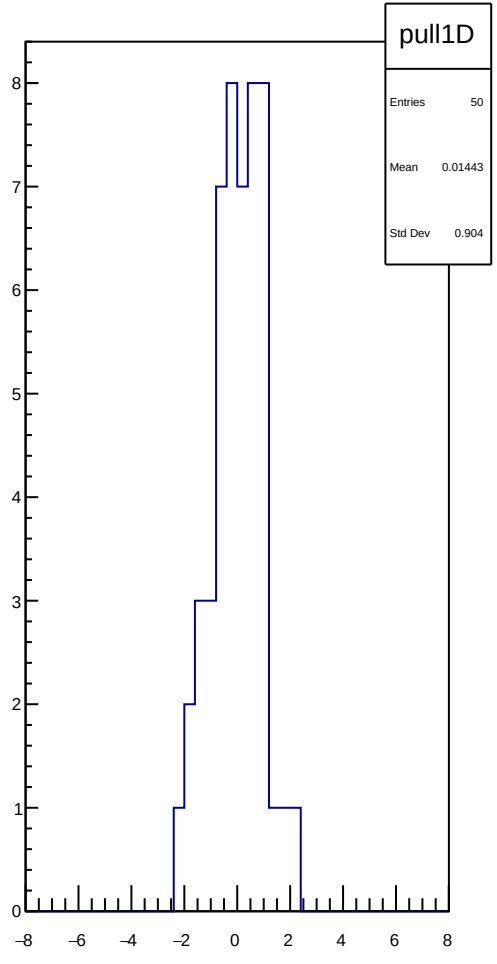

cor_sam8_rms vs run
χ² / ndf 1565 / 49
p0 2151 ± 2.161
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

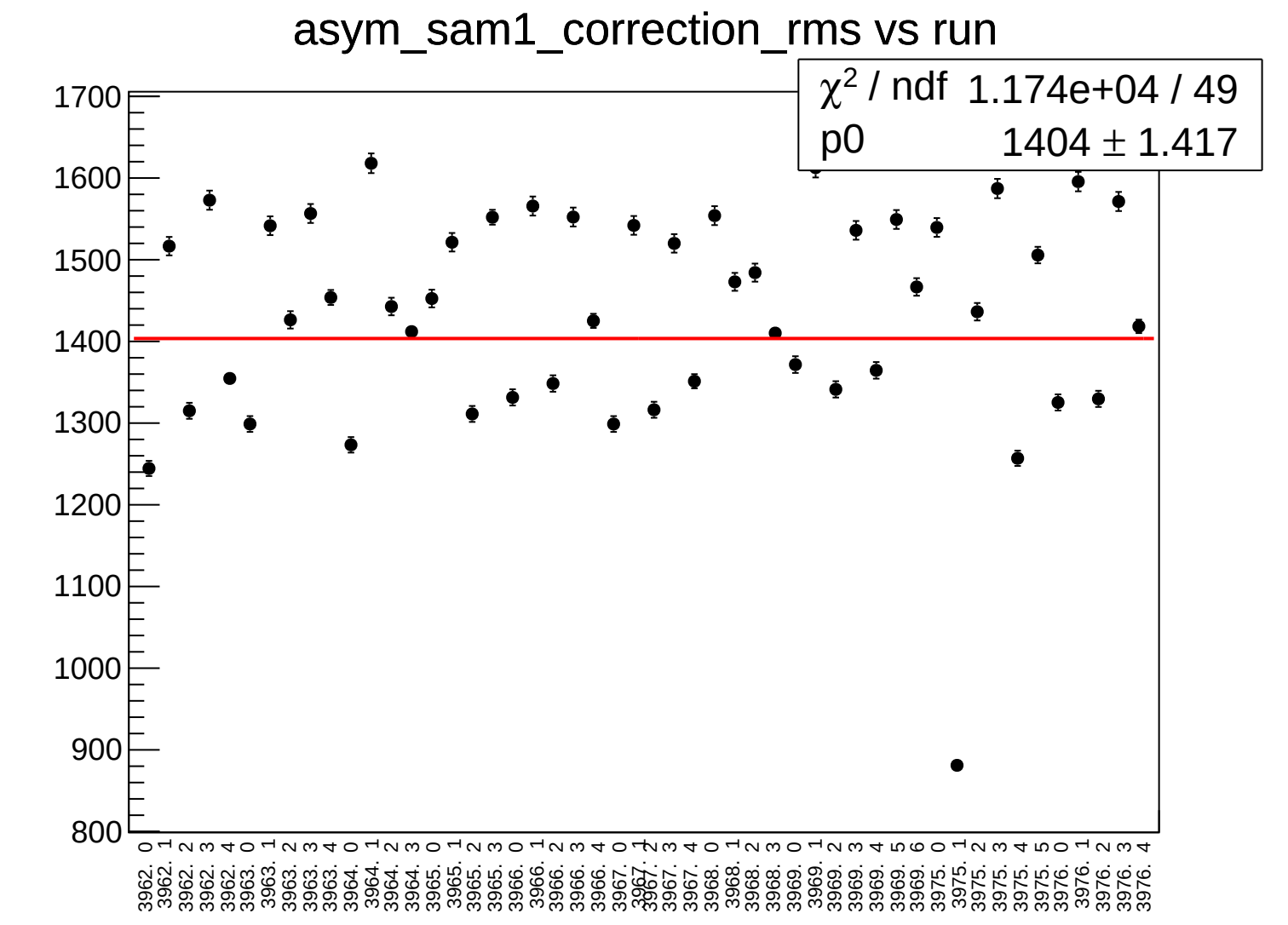

reg_asym_sam1_mean vs run
χ² / ndf 47.15 / 49
p0 147 ± 560.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 50
Mean 310.8
Std Dev 288.7
2
1
0
−1
−2

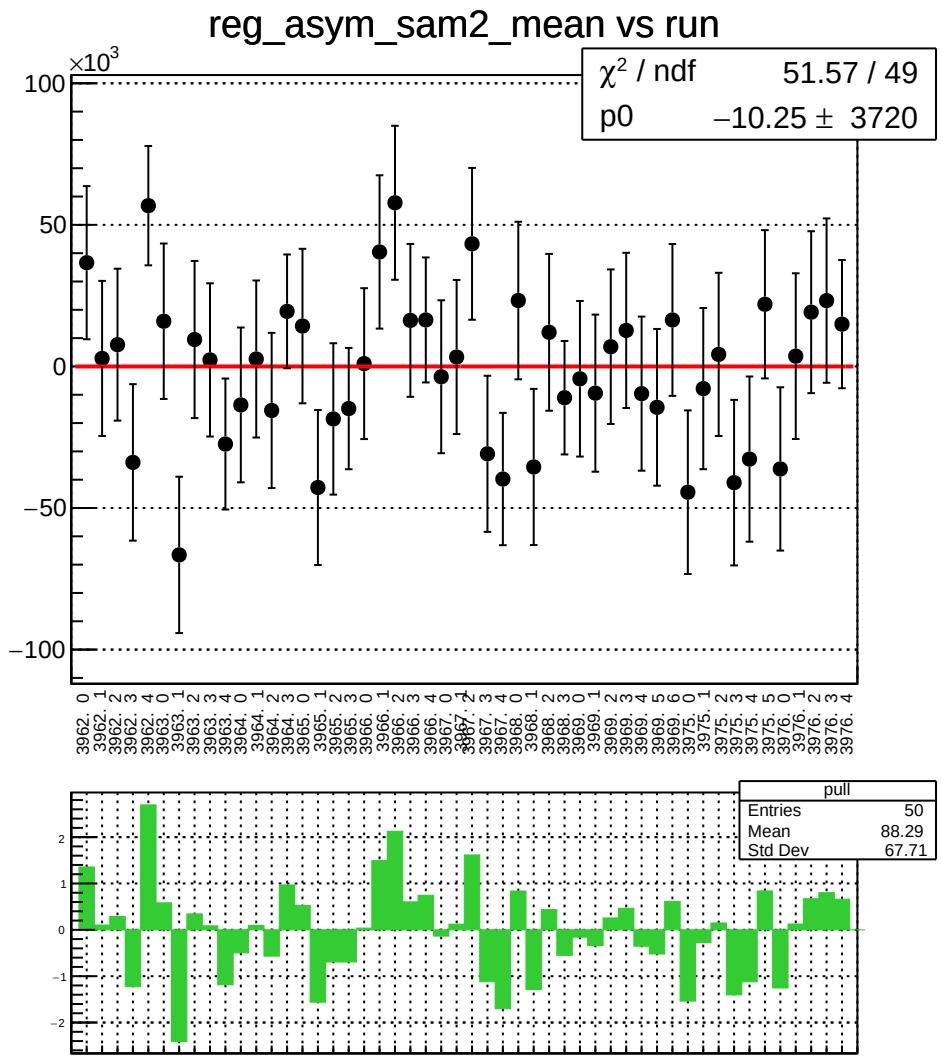

pull1D
Entries 50
Mean −0.01674
Std Dev 0.9709
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

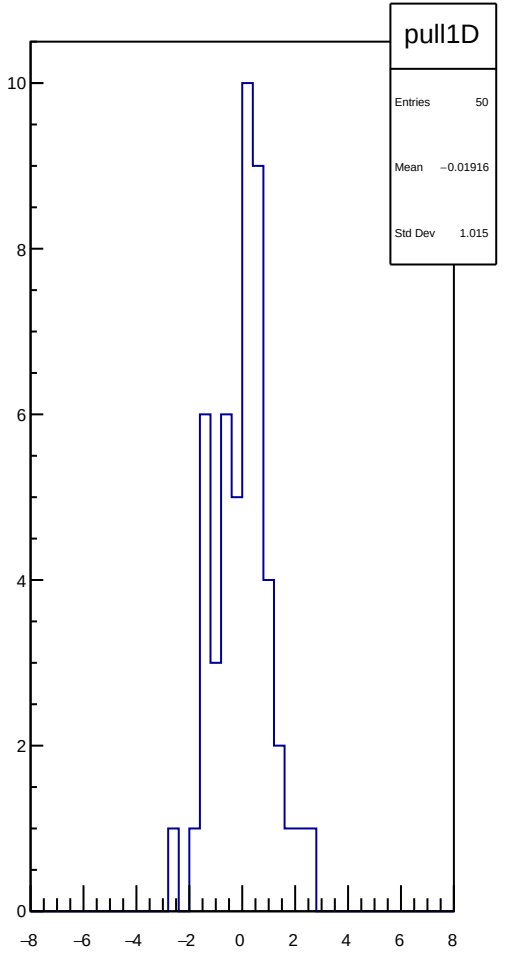

reg_asym_sam1_rms vs run
χ² / ndf 5185 / 49
p0 394 ± 0.3966
480
460
440
420
400
380
360
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

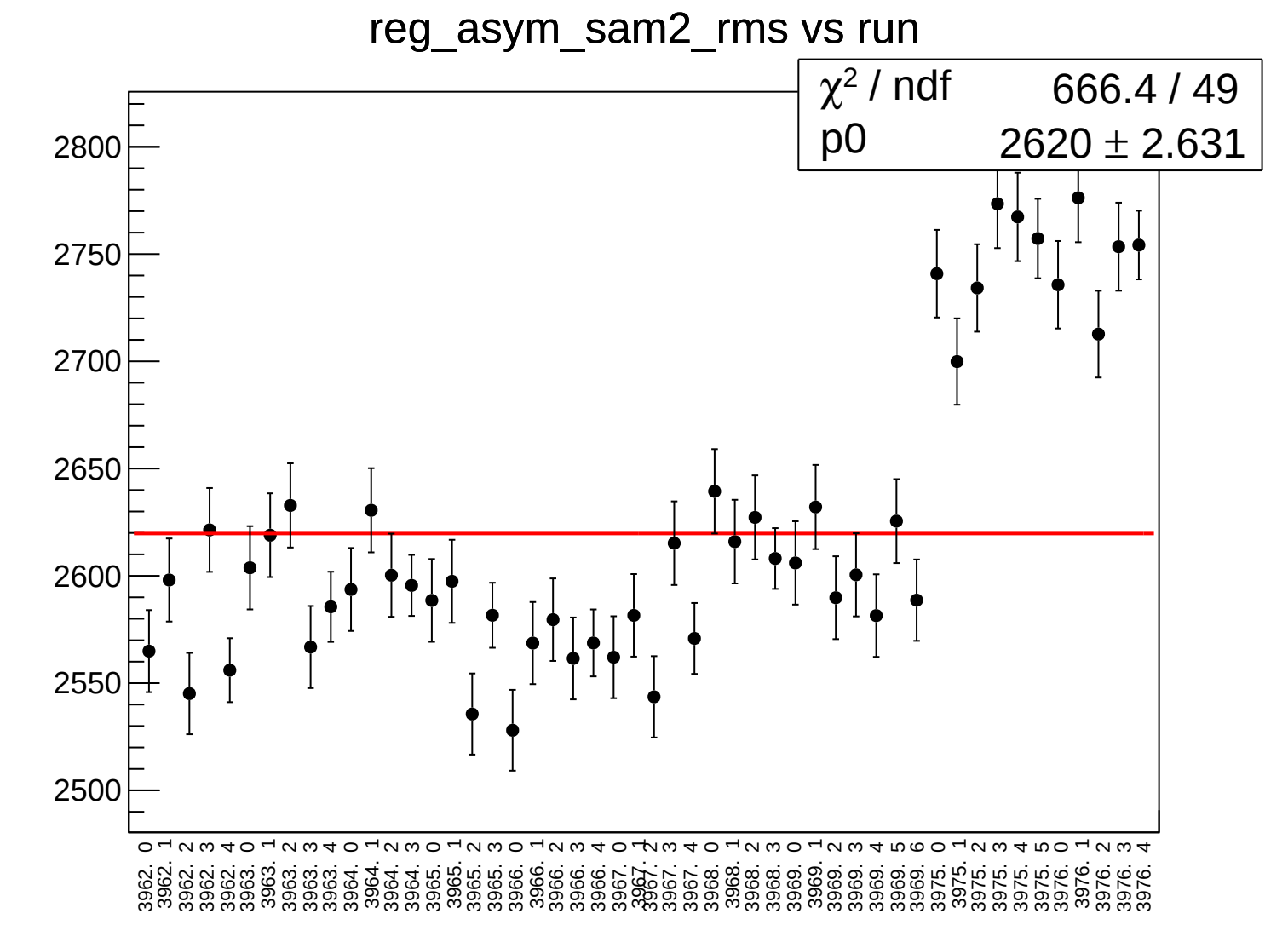

asym_sam1_correction_mean vs run
χ² / ndf 40.87 / 49
p0 2240 ± 2004
60000
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 138.7
Std Dev 105.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

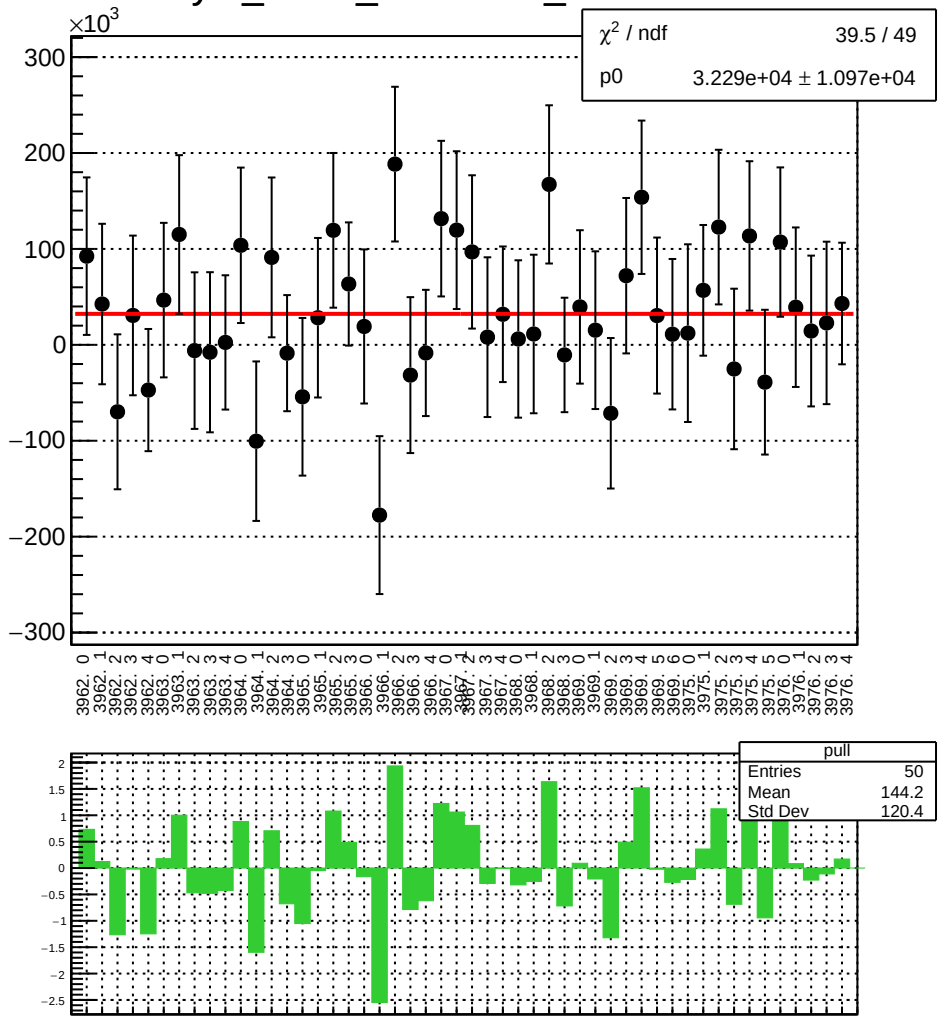

pull1D
Entries 50
Mean 0.01443
Std Dev 0.904
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

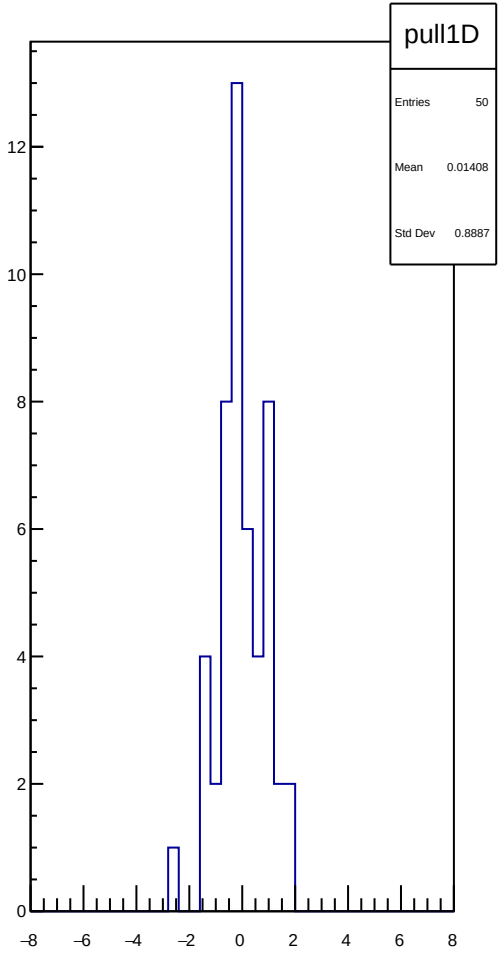

asym_sam1_correction_rms vs run
χ² / ndf 1.174e+04 / 49
p0 1404 ± 1.417
1700
1600
1500
1400
1300
1200
1100
1000
900
800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

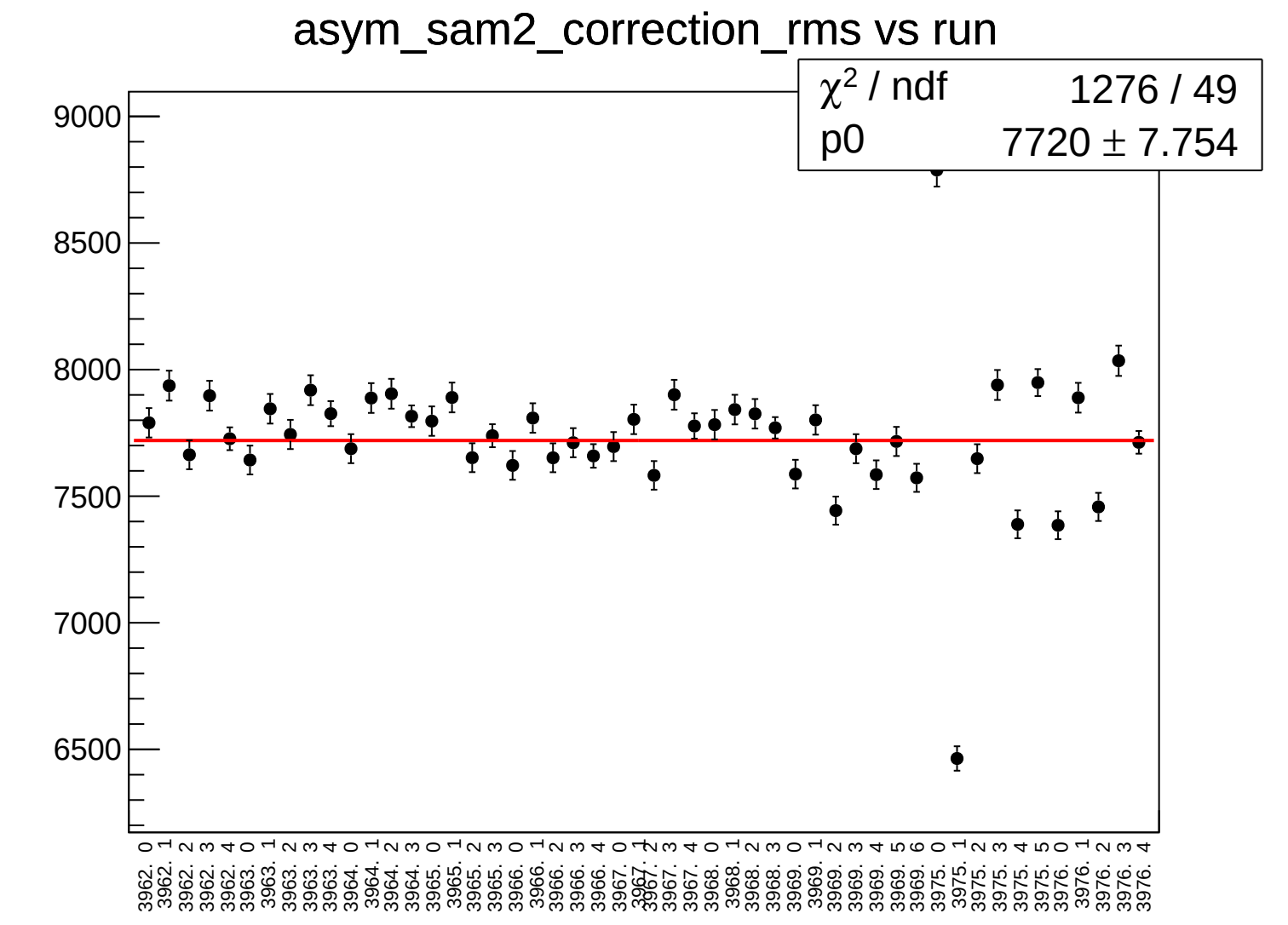

reg_asym_sam2_mean vs run
×10^3
χ² / ndf 51.57 / 49
p0 −10.25 ± 3720
100
50
0
−50
−100
pull
Entries 50
Mean 88.29
Std Dev 67.71
2
1
0
−1
−2

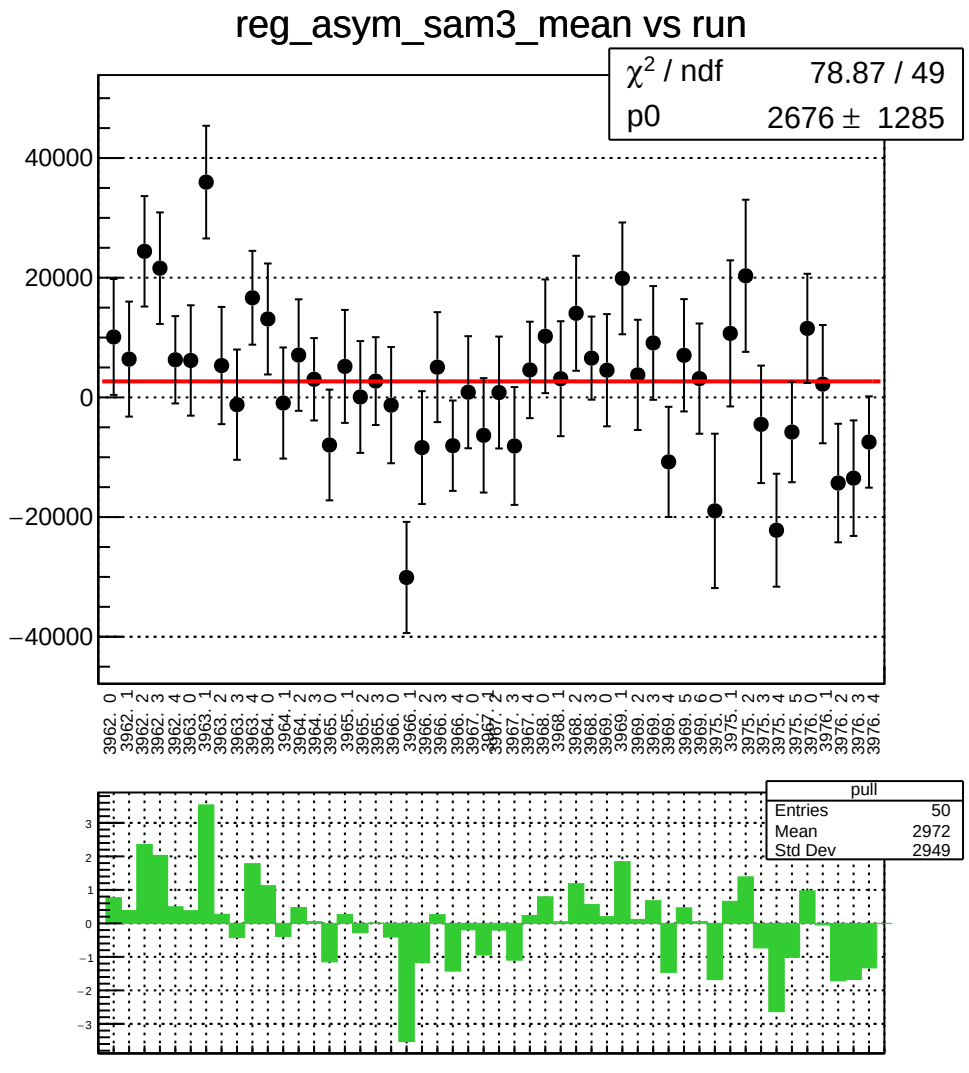

pull1D
Entries 50
Mean −0.01916
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

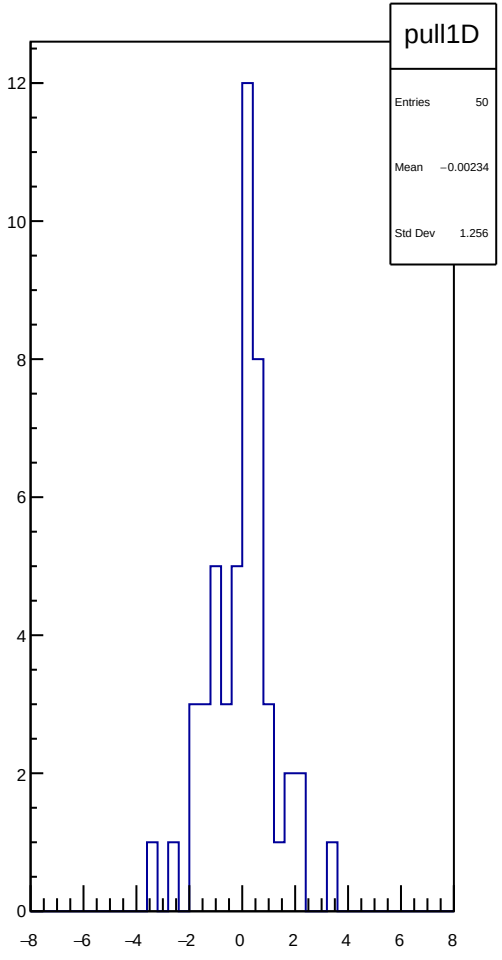

reg_asym_sam2_rms vs run
χ² / ndf 666.4 / 49
p0 2620 ± 2.631
2800
2750
2700
2650
2600
2550
2500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

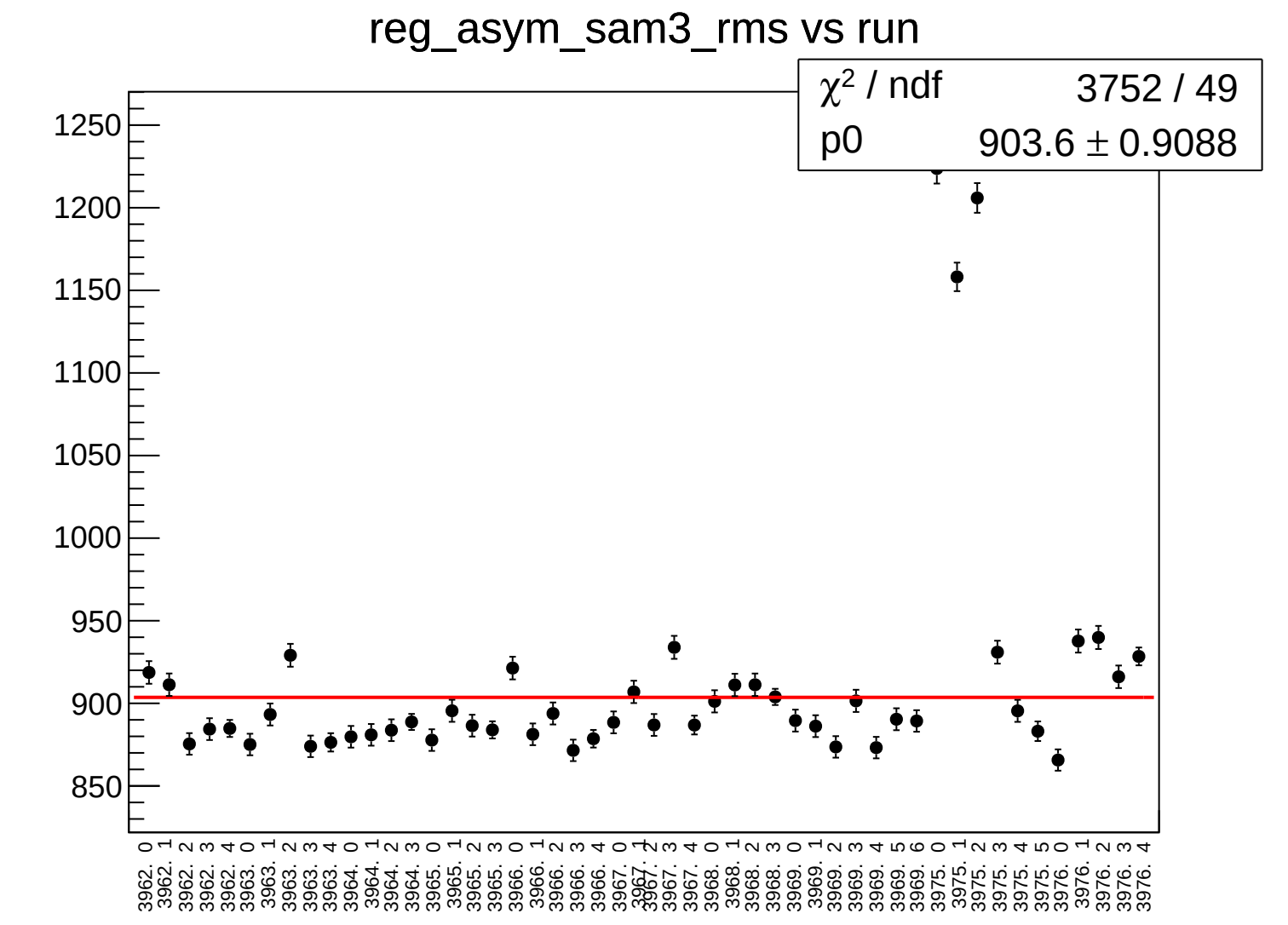

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 39.5 / 49
p0 3.229e+04 ± 1.097e+04
pull
Entries 50
Mean 144.2
Std Dev 120.4

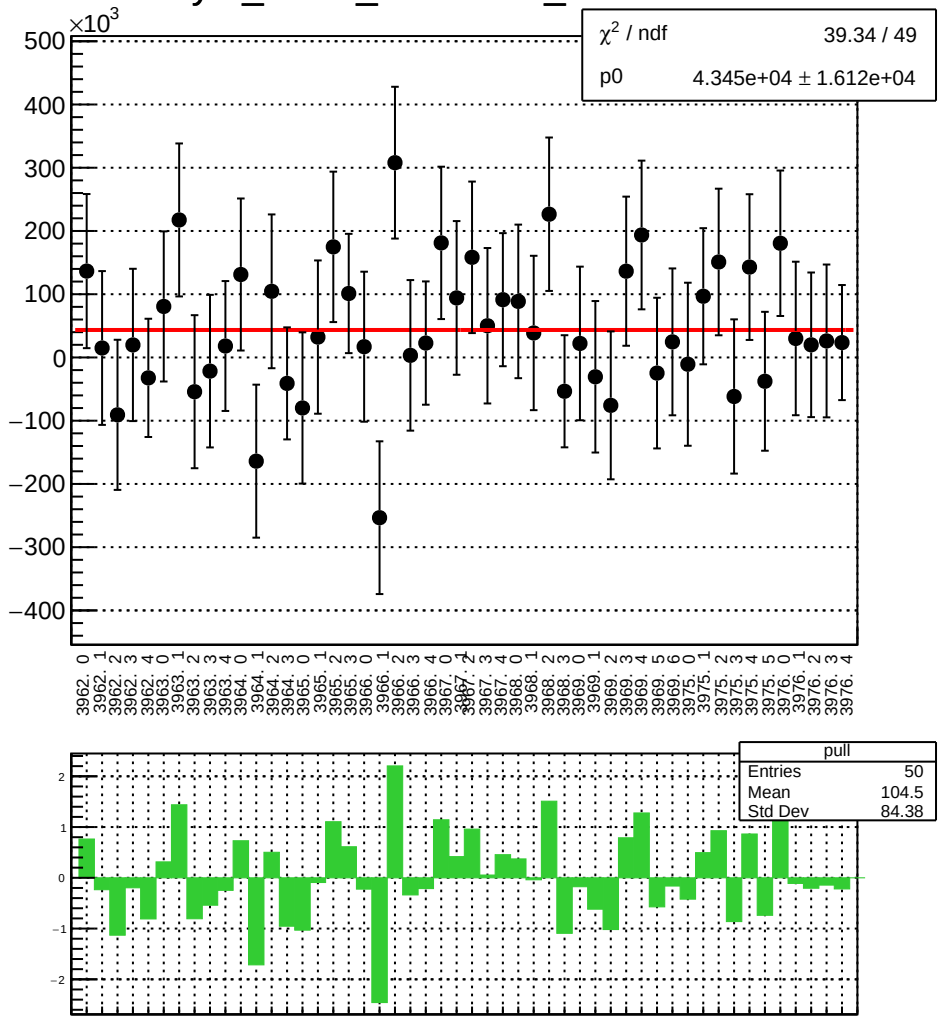

pull1D
Entries 50
Mean 0.01408
Std Dev 0.8887

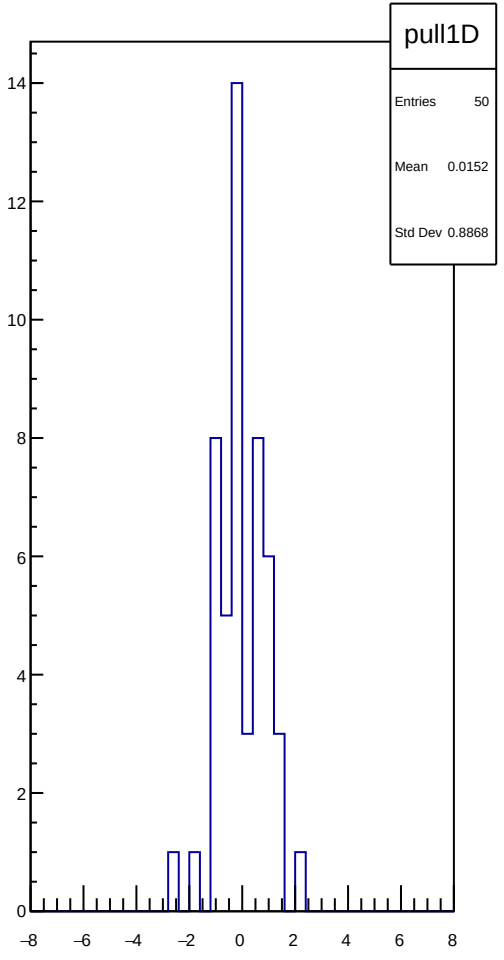

asym_sam2_correction_rms vs run
χ² / ndf 1276 / 49
p0 7720 ± 7.754
9000
8500
8000
7500
7000
6500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

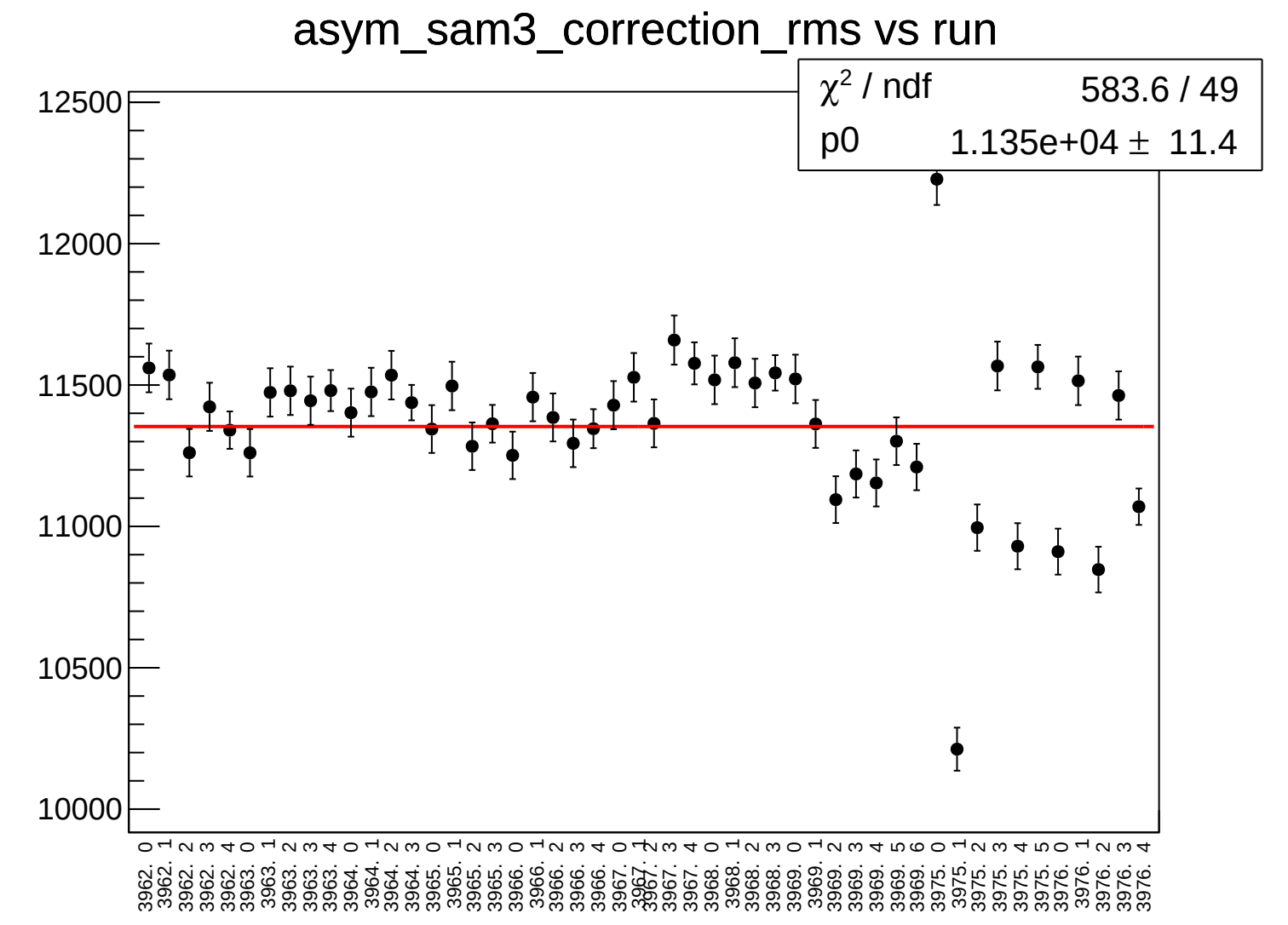

reg_asym_sam3_mean vs run
χ² / ndf 78.87 / 49
p0 2676 ± 1285
40000
20000
0
−20000
−40000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 2972
Std Dev 2949
3
2
1
0
−1
−2
−3

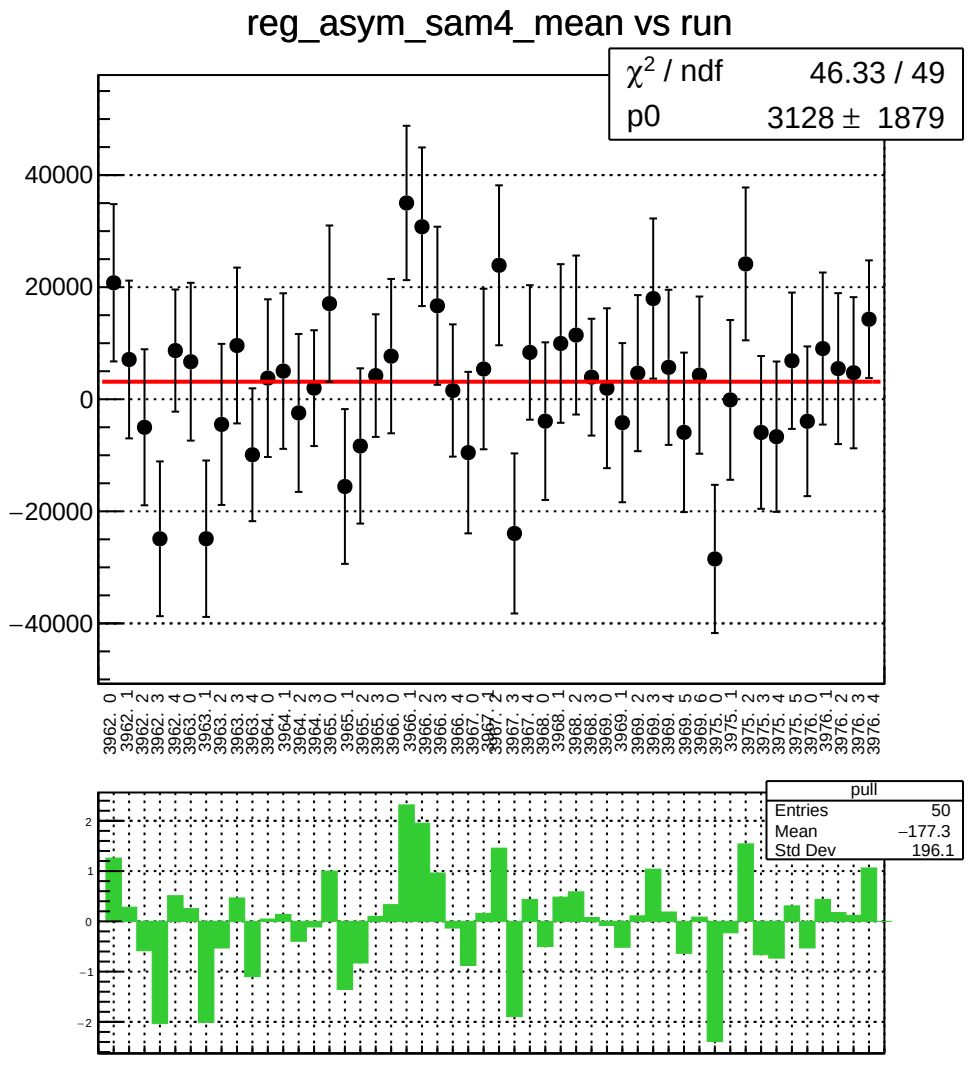

pull1D
Entries 50
Mean −0.00234
Std Dev 1.256
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_rms vs run
χ² / ndf 3752 / 49
p0 903.6 ± 0.9088
1250
1200
1150
1100
1050
1000
950
900
850
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_sam3_correction_mean vs run
×10^3
χ² / ndf 39.34 / 49
p0 4.345e+04 ± 1.612e+04
pull
Entries 50
Mean 104.5
Std Dev 84.38


pull1D
Entries 50
Mean 0.0152
Std Dev 0.8868


asym_sam3_correction_rms vs run
χ² / ndf 583.6 / 49
p0 1.135e+04 ± 11.4
12500
12000
11500
11000
10500
10000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_sam4_mean vs run
χ² / ndf 46.33 / 49
p0 3128 ± 1879
40000
20000
0
−20000
−40000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
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3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
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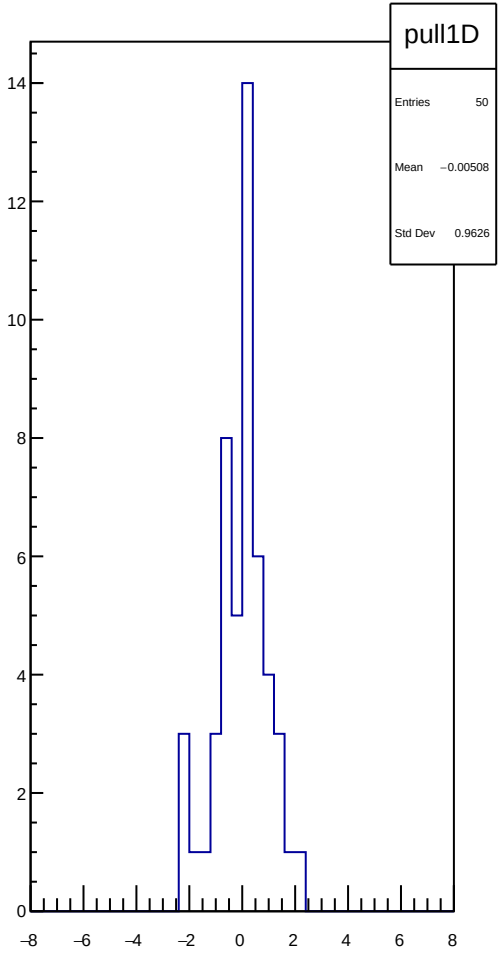
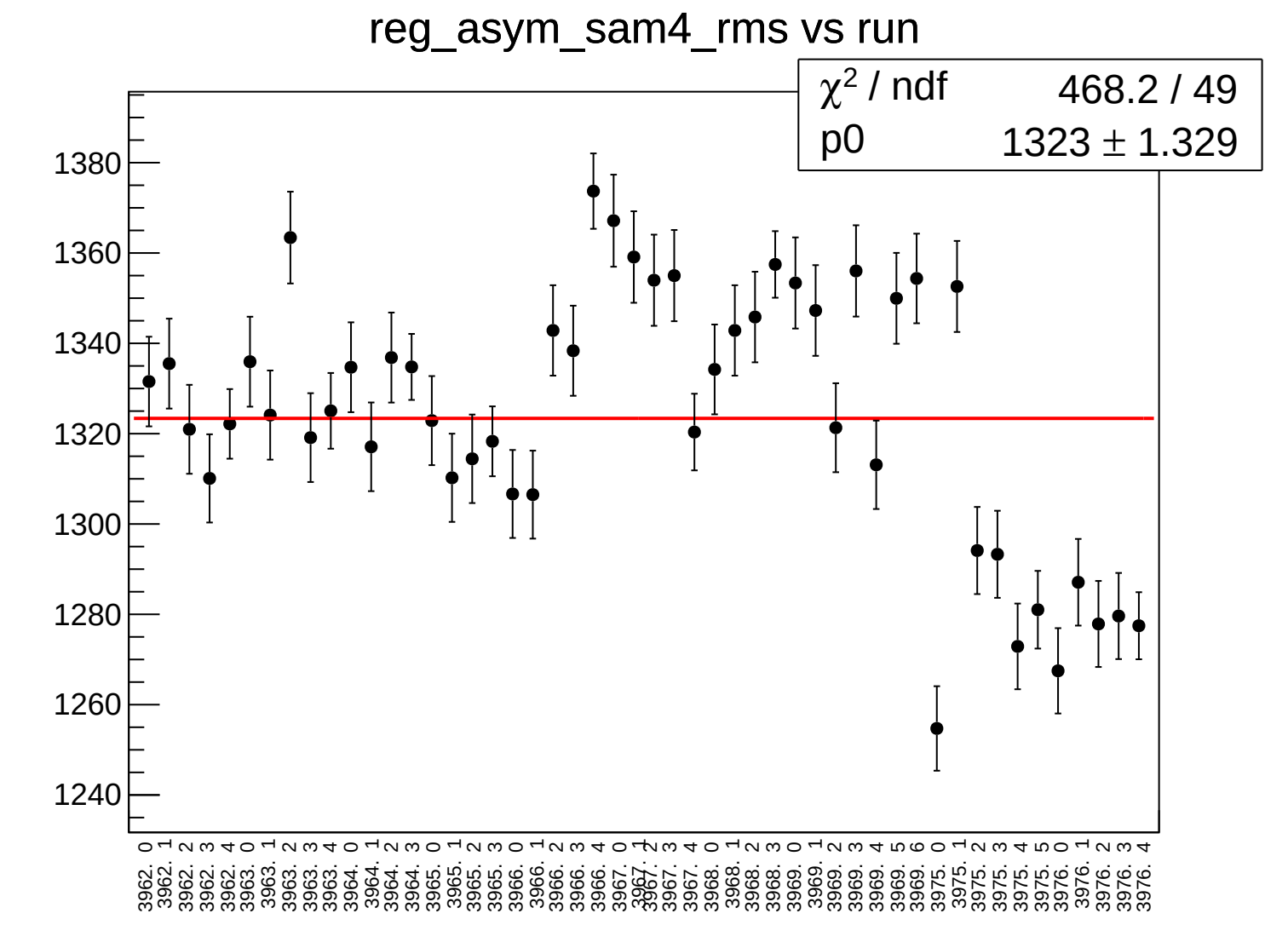
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −177.3
Std Dev 196.1
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.00508
Std Dev 0.9626
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_rms vs run
χ² / ndf 468.2 / 49
p0 1323 ± 1.329
1380
1360
1340
1320
1300
1280
1260
1240
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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3975. 3
3975. 4
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3976. 0
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3976. 2
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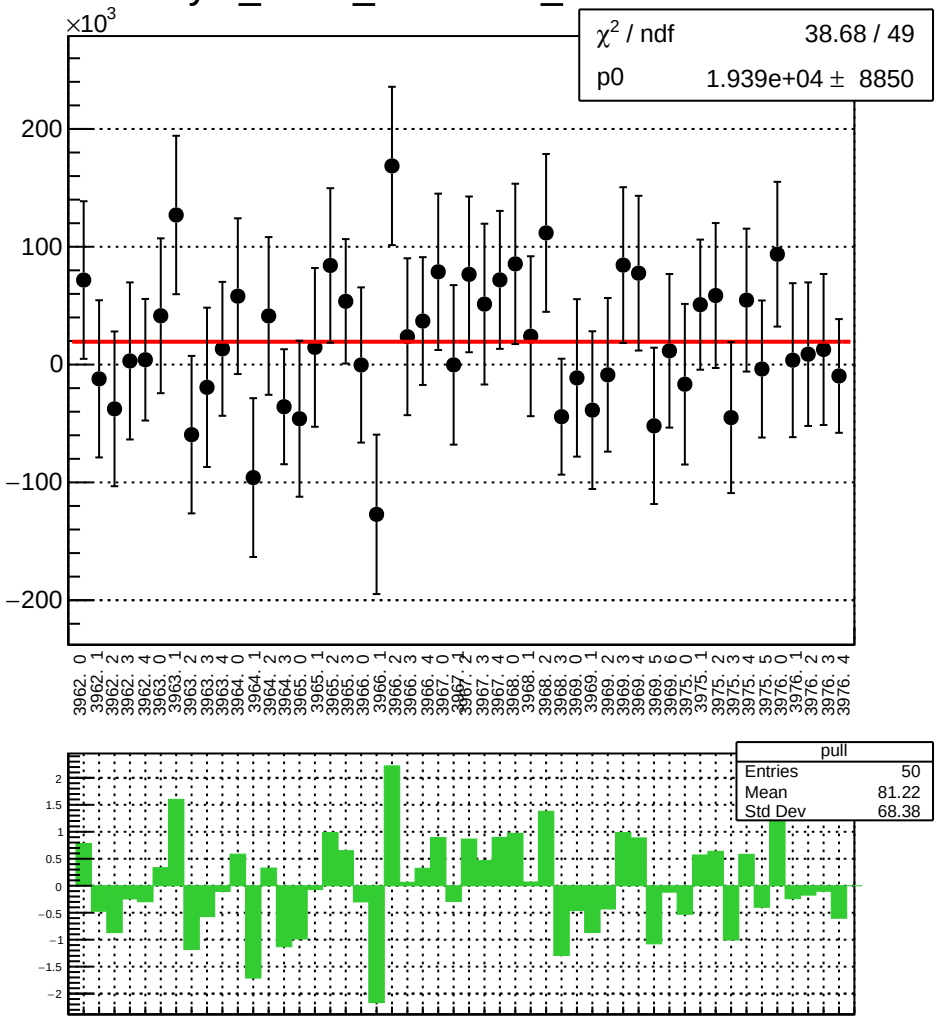
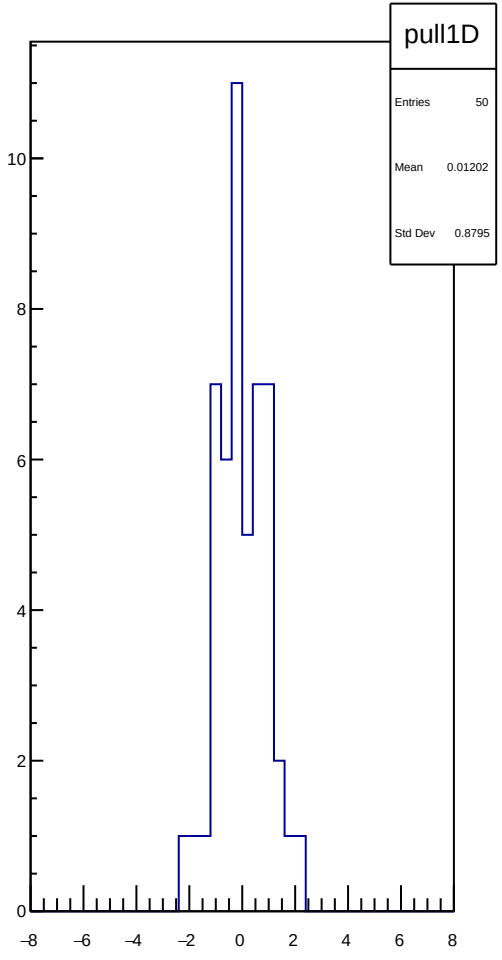
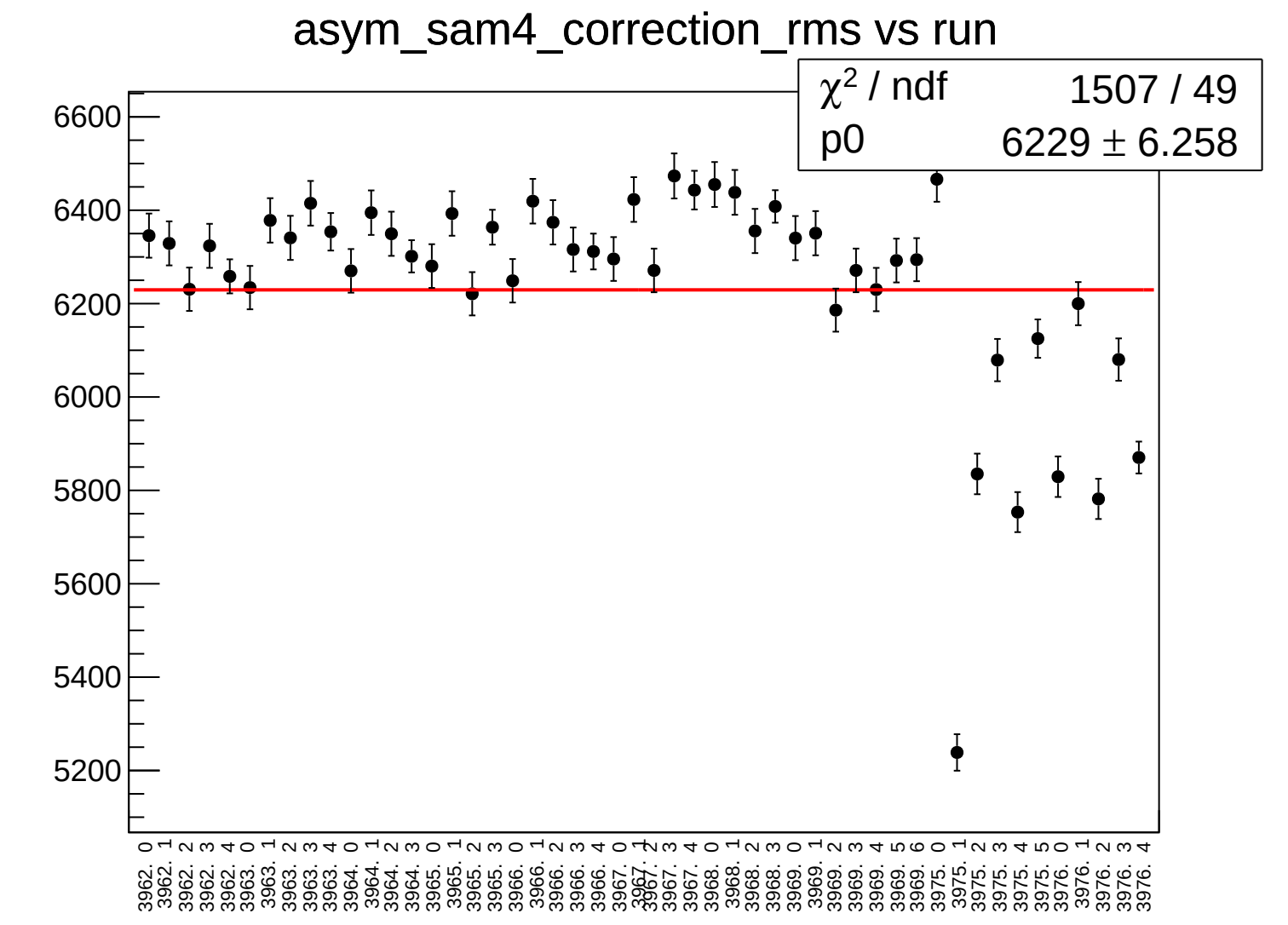
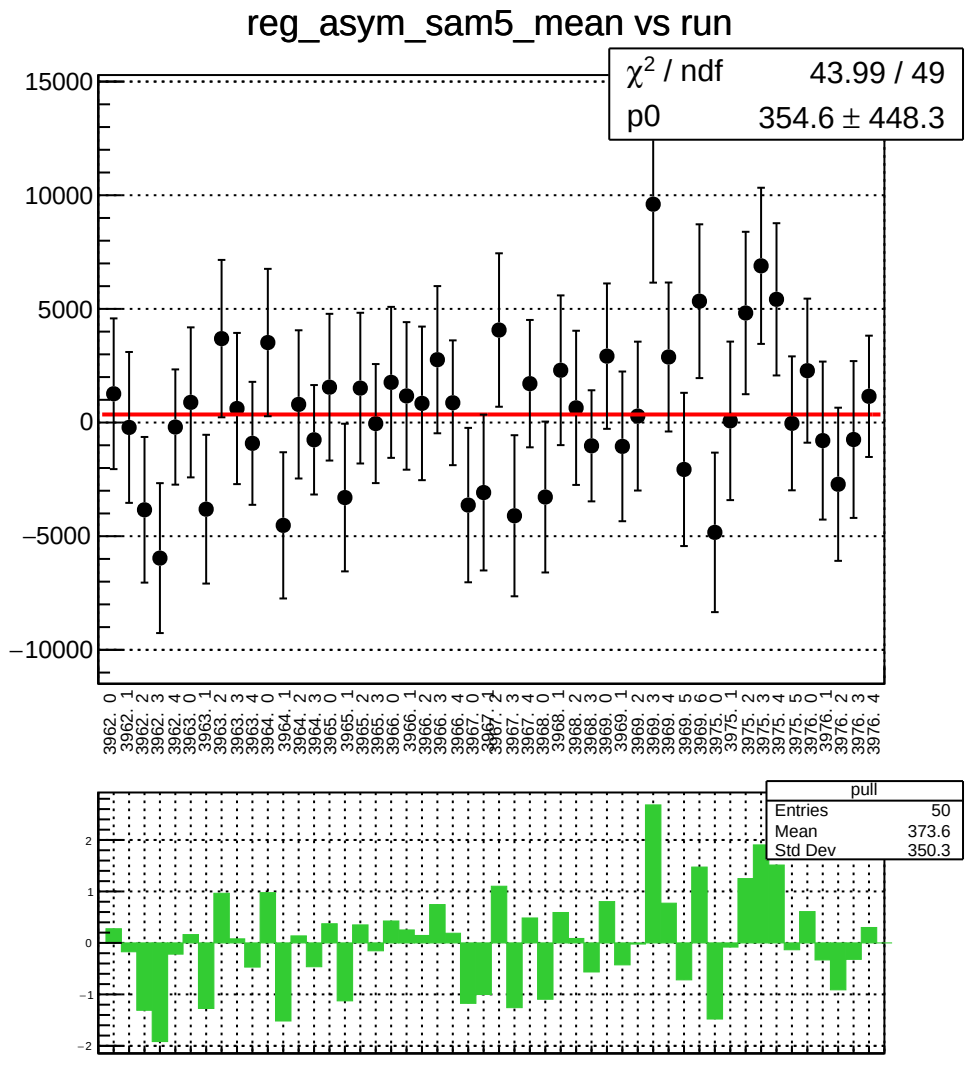
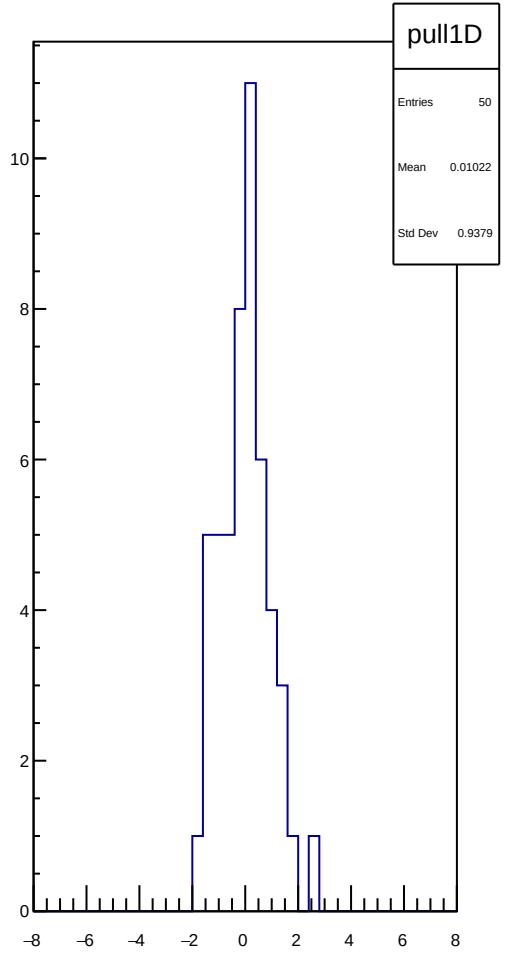
3976. 4

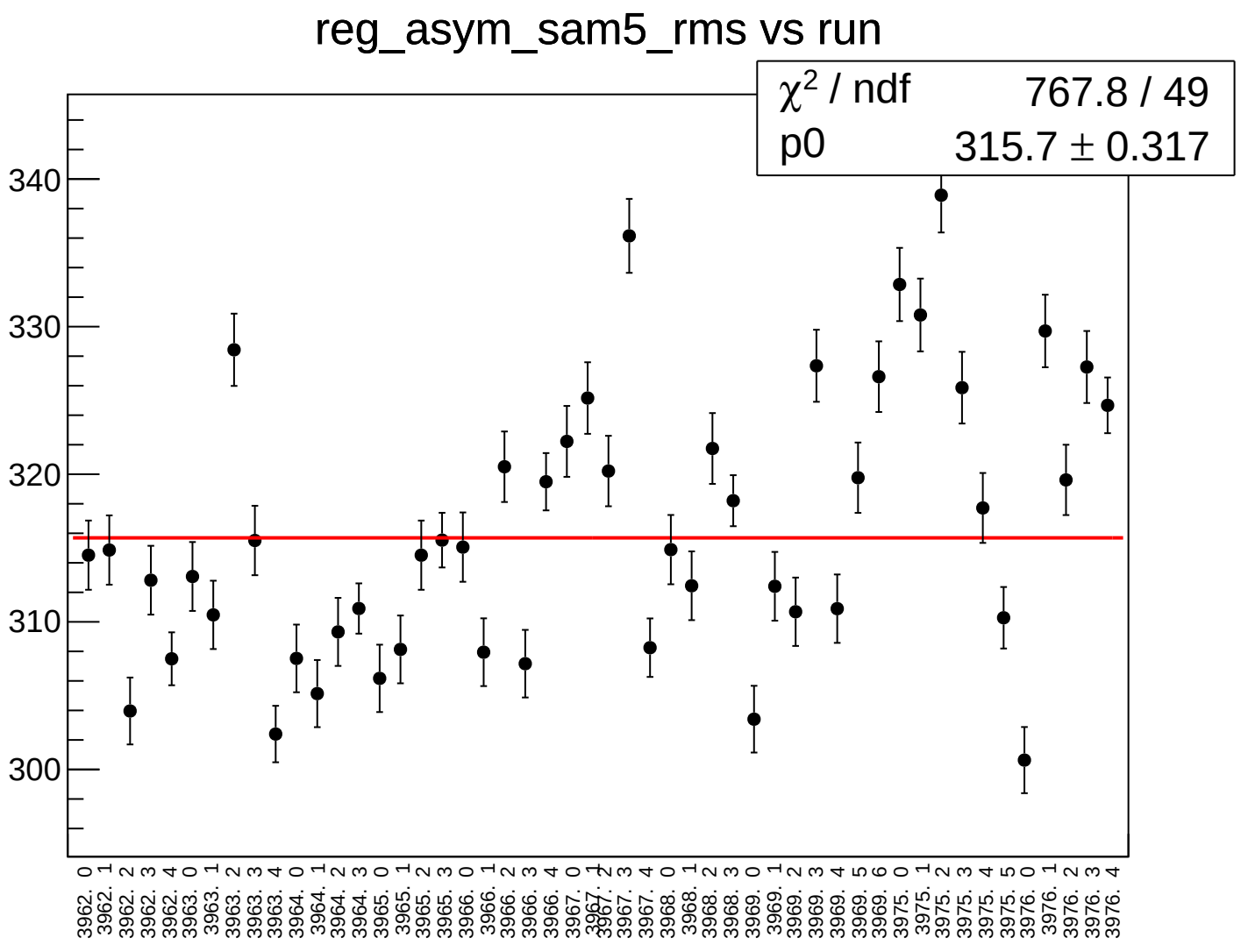

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 38.68 / 49
p0 1.939e+04 ± 8850
200
100
0
−100
−200
pull
Entries 50
Mean 81.22
Std Dev 68.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

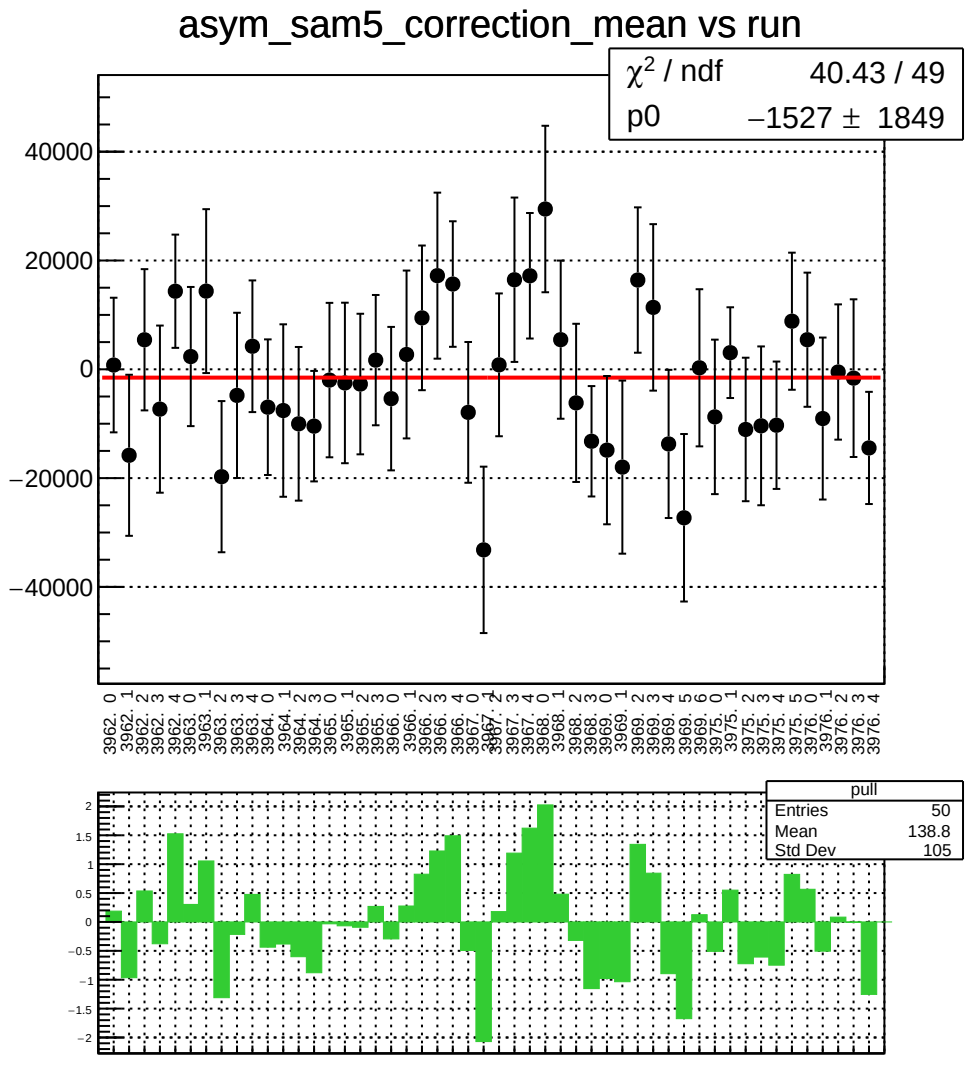

pull1D
Entries 50
Mean 0.01202
Std Dev 0.8795
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

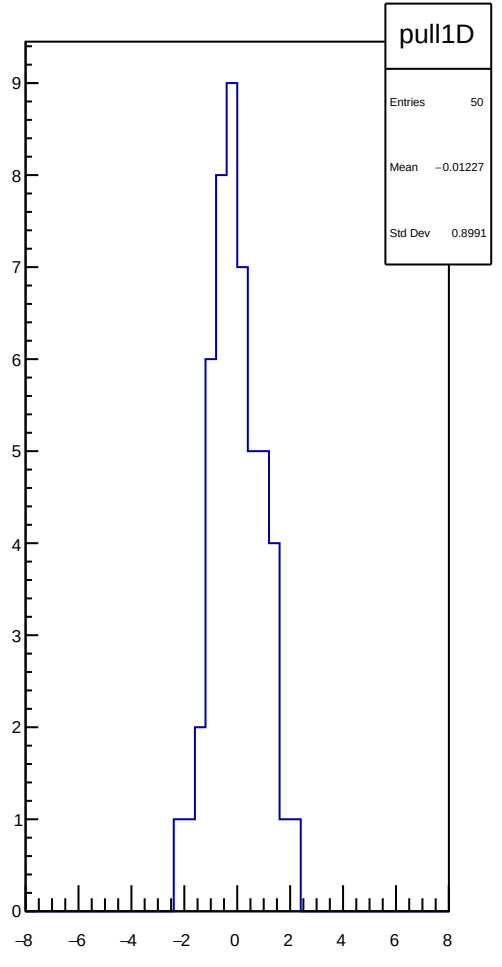

asym_sam4_correction_rms vs run
χ² / ndf 1507 / 49
p0 6229 ± 6.258
6600
6400
6200
6000
5800
5600
5400
5200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

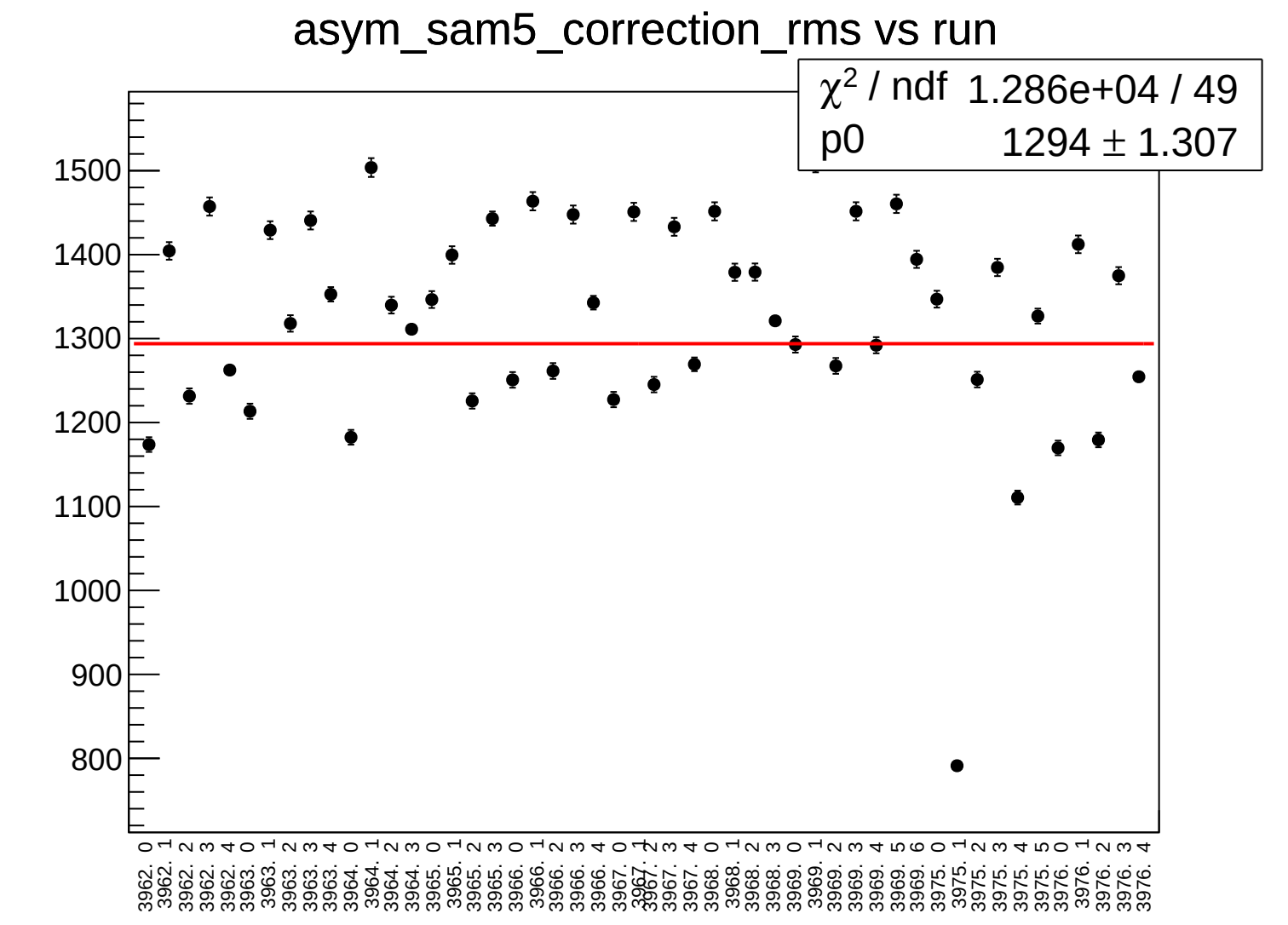

reg_asym_sam5_mean vs run
χ² / ndf 43.99 / 49
p0 354.6 ± 448.3
15000
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 373.6
Std Dev 350.3
2
1
0
−1
−2

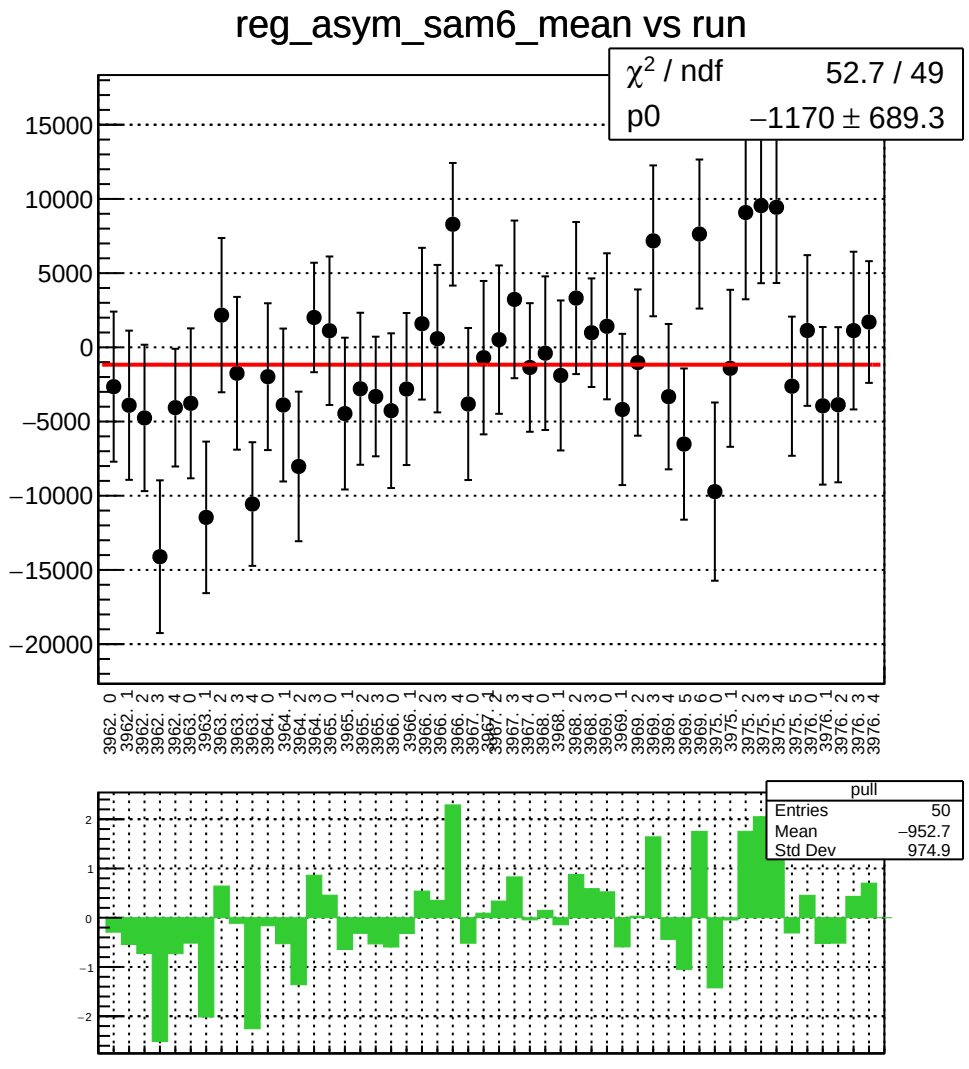

pull1D
Entries 50
Mean 0.01022
Std Dev 0.9379
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

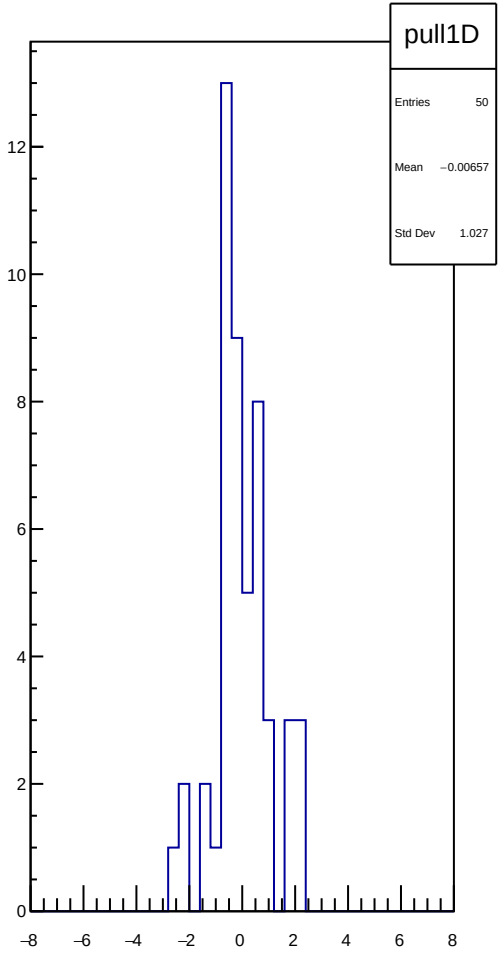

reg_asym_sam5_rms vs run
χ² / ndf 767.8 / 49
p0 315.7 ± 0.317
340
330
320
310
300
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

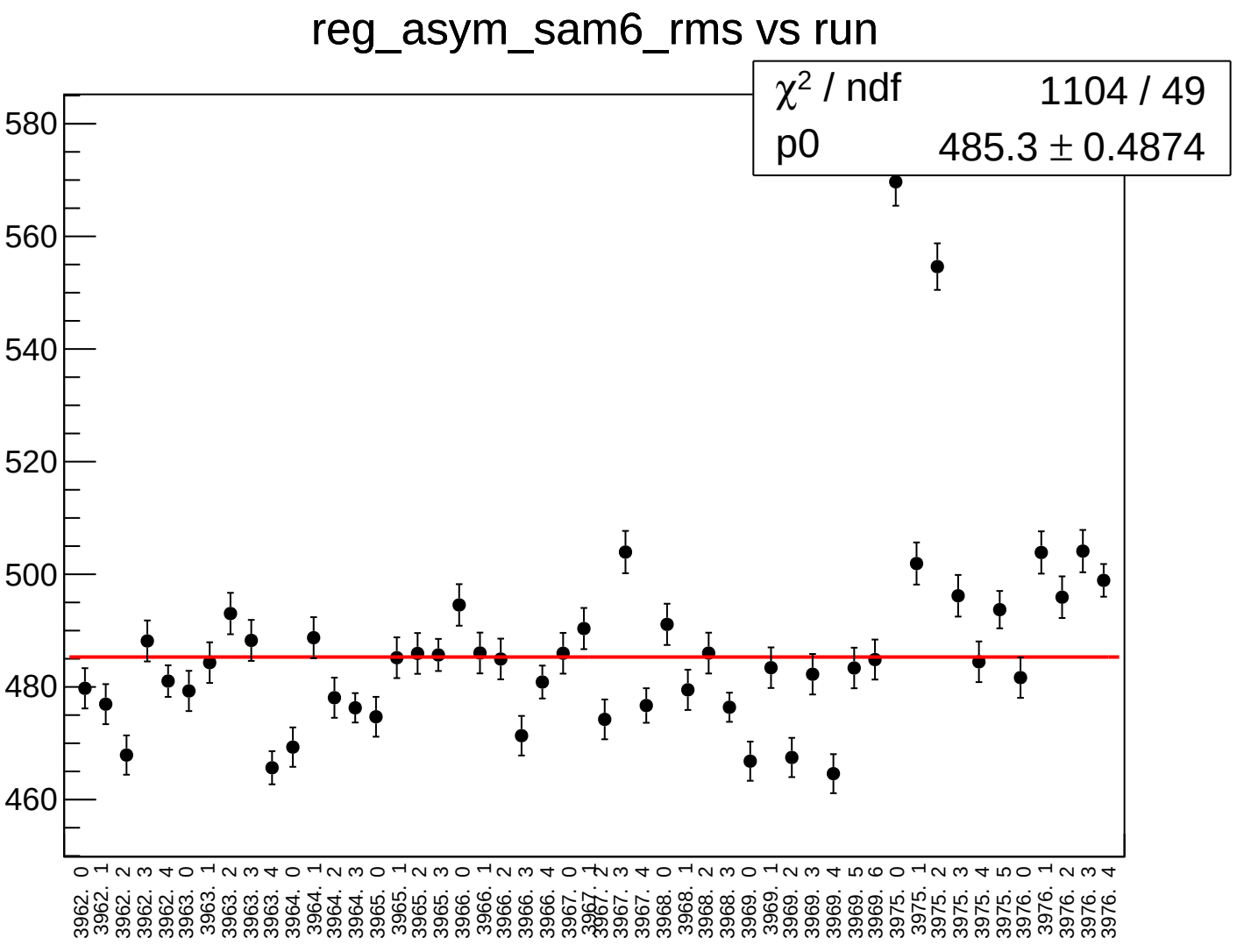

asym_sam5_correction_mean vs run
χ² / ndf 40.43 / 49
p0 −1527 ± 1849
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 138.8
Std Dev 105
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

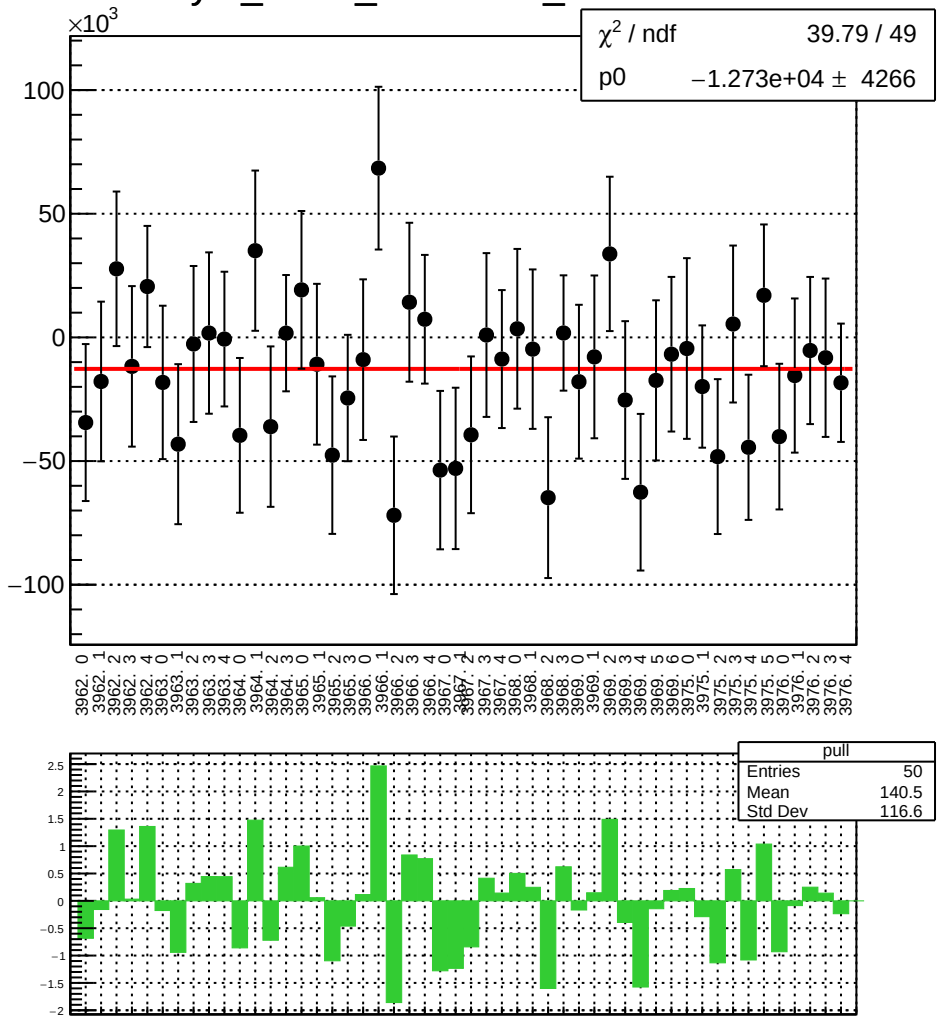

pull1D
Entries 50
Mean −0.01227
Std Dev 0.8991
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

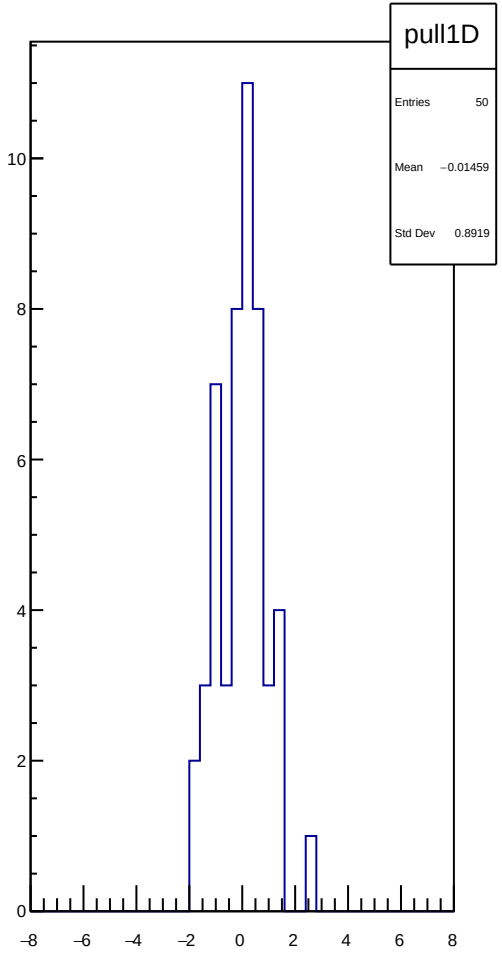

asym_sam5_correction_rms vs run
χ² / ndf 1.286e+04 / 49
p0 1294 ± 1.307
1500
1400
1300
1200
1100
1000
900
800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

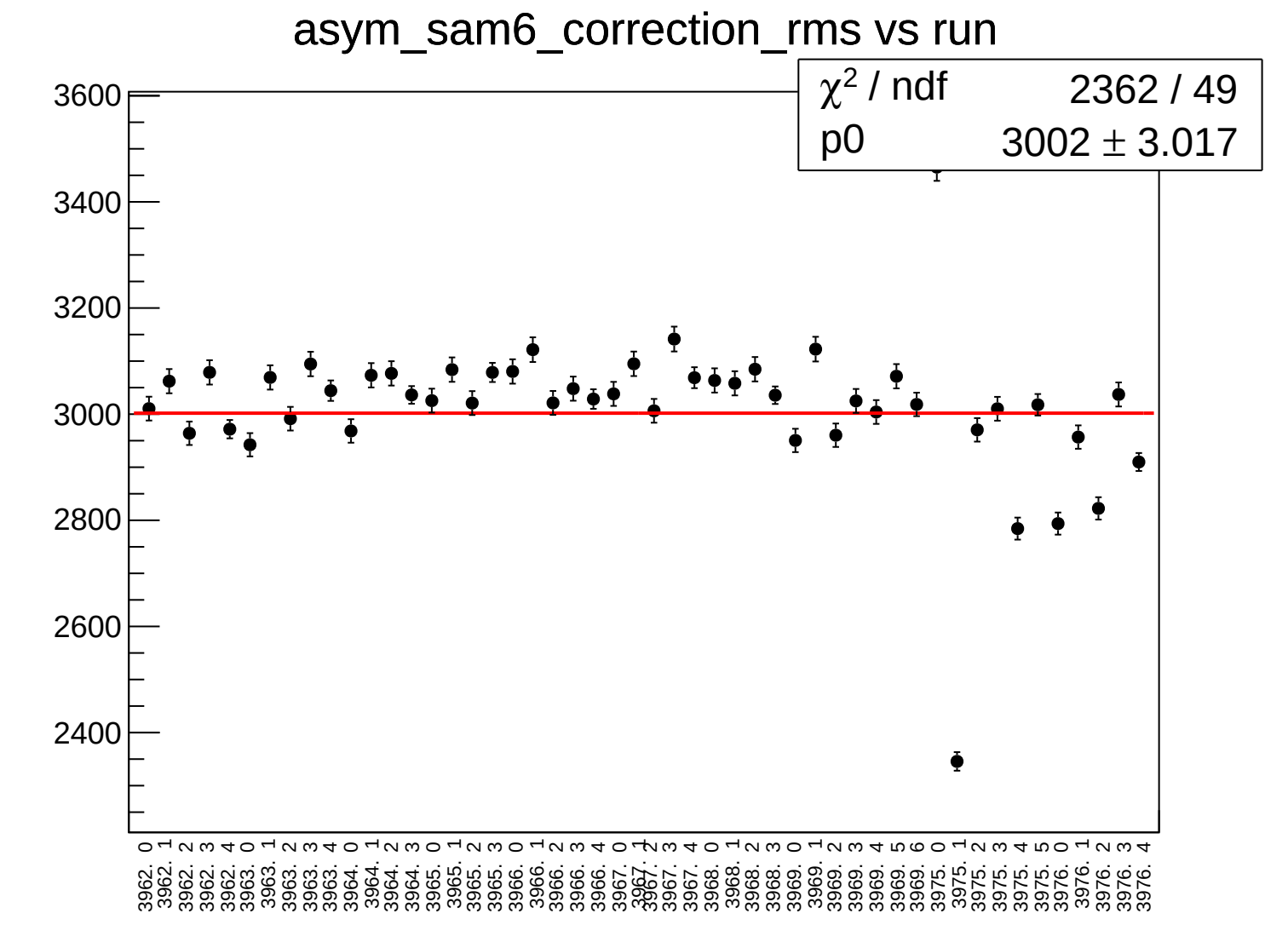

reg_asym_sam6_mean vs run
χ² / ndf 52.7 / 49
p0 −1170 ± 689.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −952.7
Std Dev 974.9
2
1
0
−1
−2

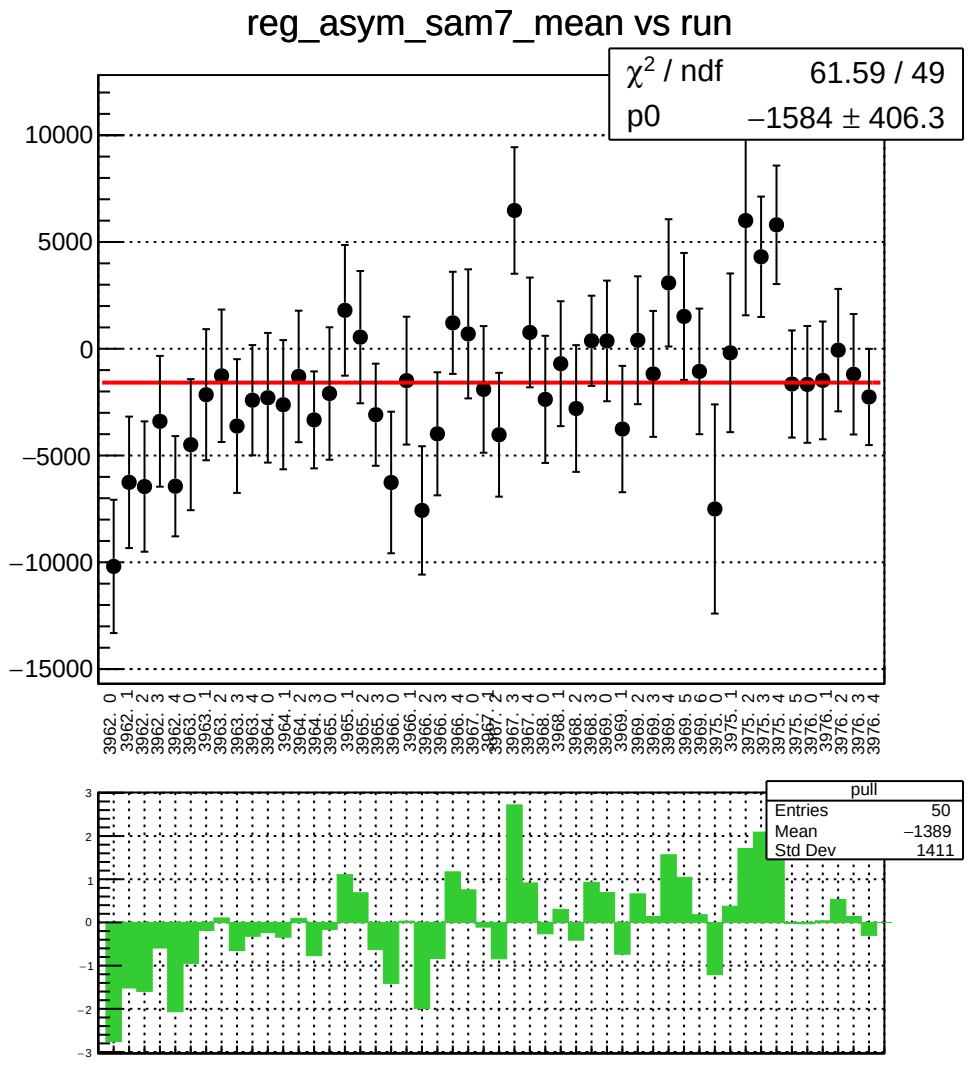

pull1D
Entries 50
Mean −0.00657
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

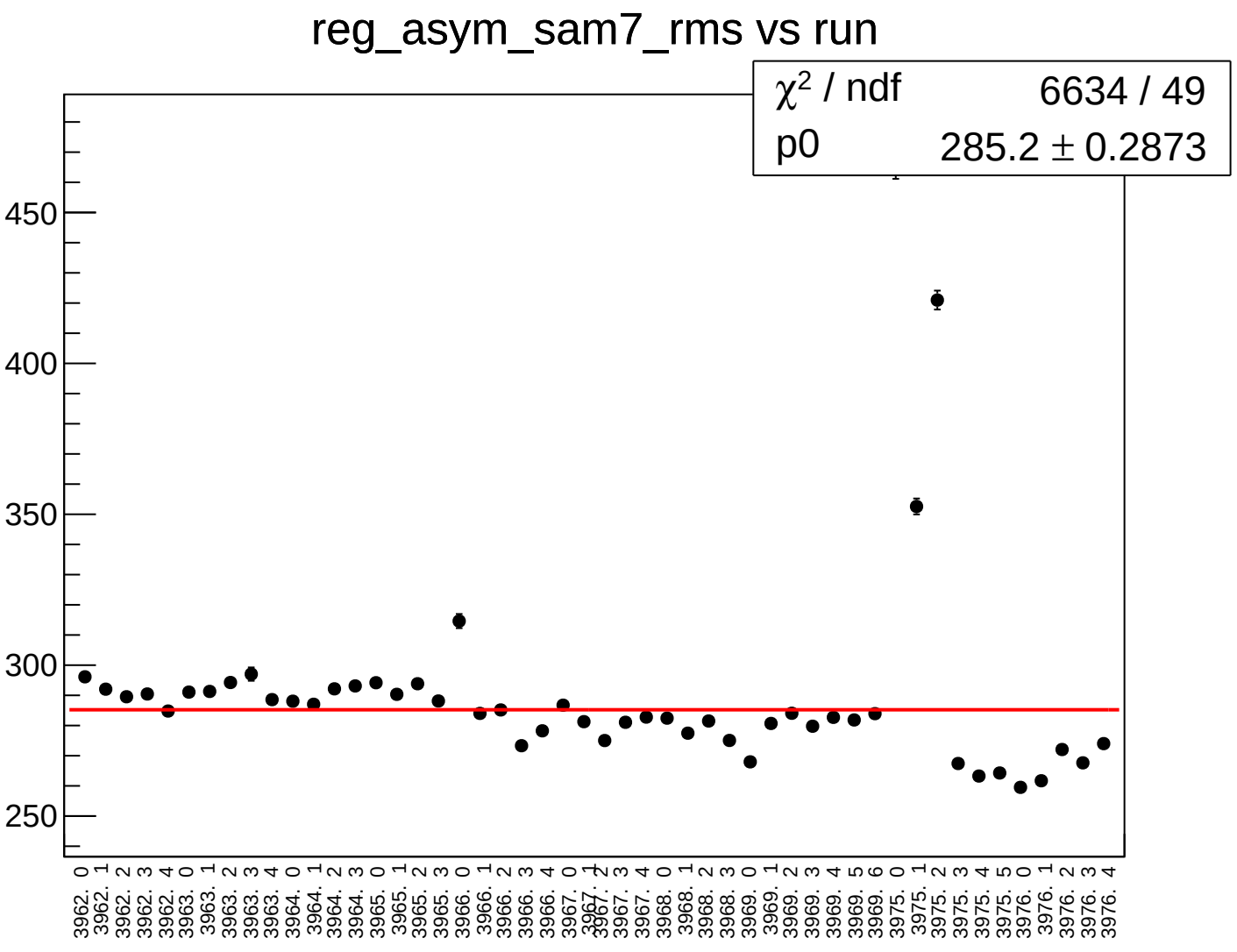

reg_asym_sam6_rms vs run
χ² / ndf 1104 / 49
p0 485.3 ± 0.4874
580
560
540
520
500
480
460
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_sam6_correction_mean vs run
×10^3
χ² / ndf 39.79 / 49
p0 −1.273e+04 ± 4266
100
50
0
−50
−100
pull
Entries 50
Mean 140.5
Std Dev 116.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.01459
Std Dev 0.8919
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_correction_rms vs run
χ² / ndf 2362 / 49
p0 3002 ± 3.017
3600
3400
3200
3000
2800
2600
2400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_sam7_mean vs run
χ² / ndf 61.59 / 49
p0 −1584 ± 406.3
10000
5000
0
−5000
−10000
−15000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −1389
Std Dev 1411
3
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean −0.005838
Std Dev 1.11
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_rms vs run
χ² / ndf 6634 / 49
p0 285.2 ± 0.2873
450
400
350
300
250
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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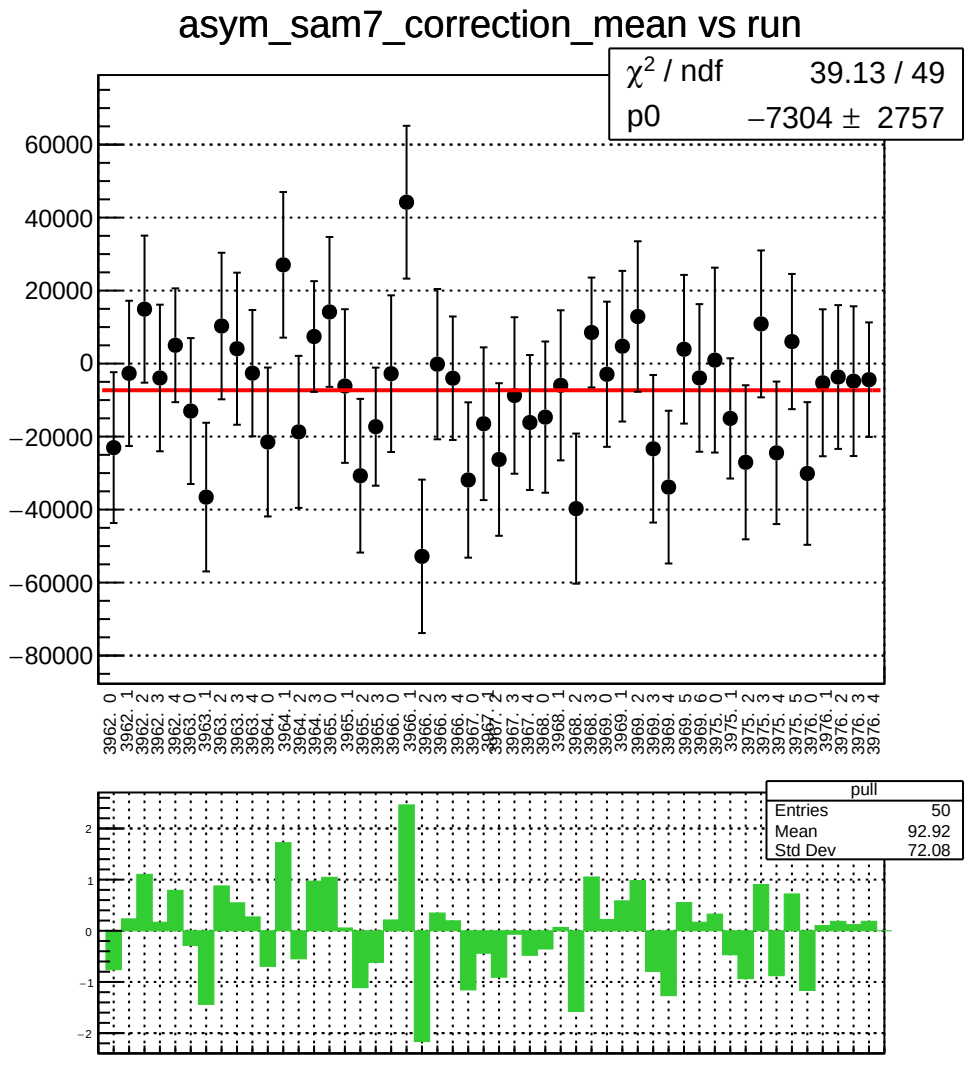
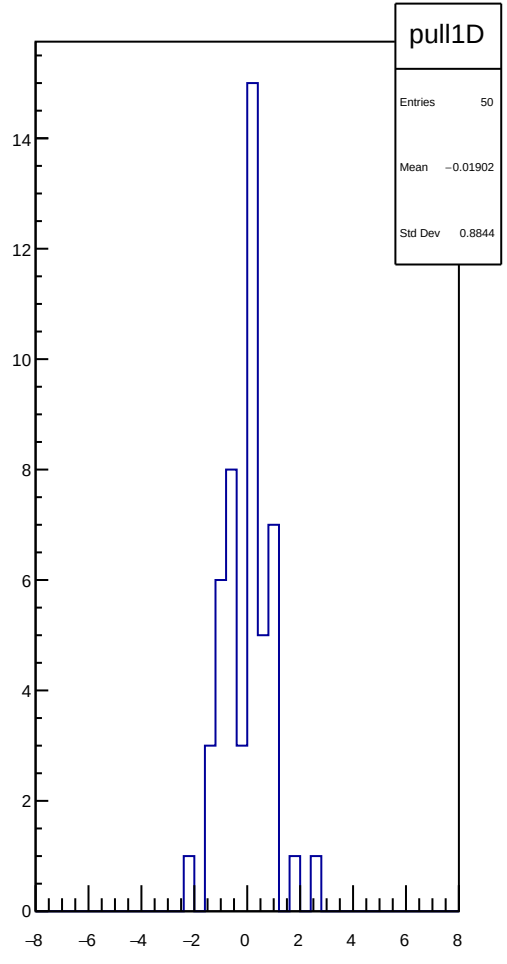
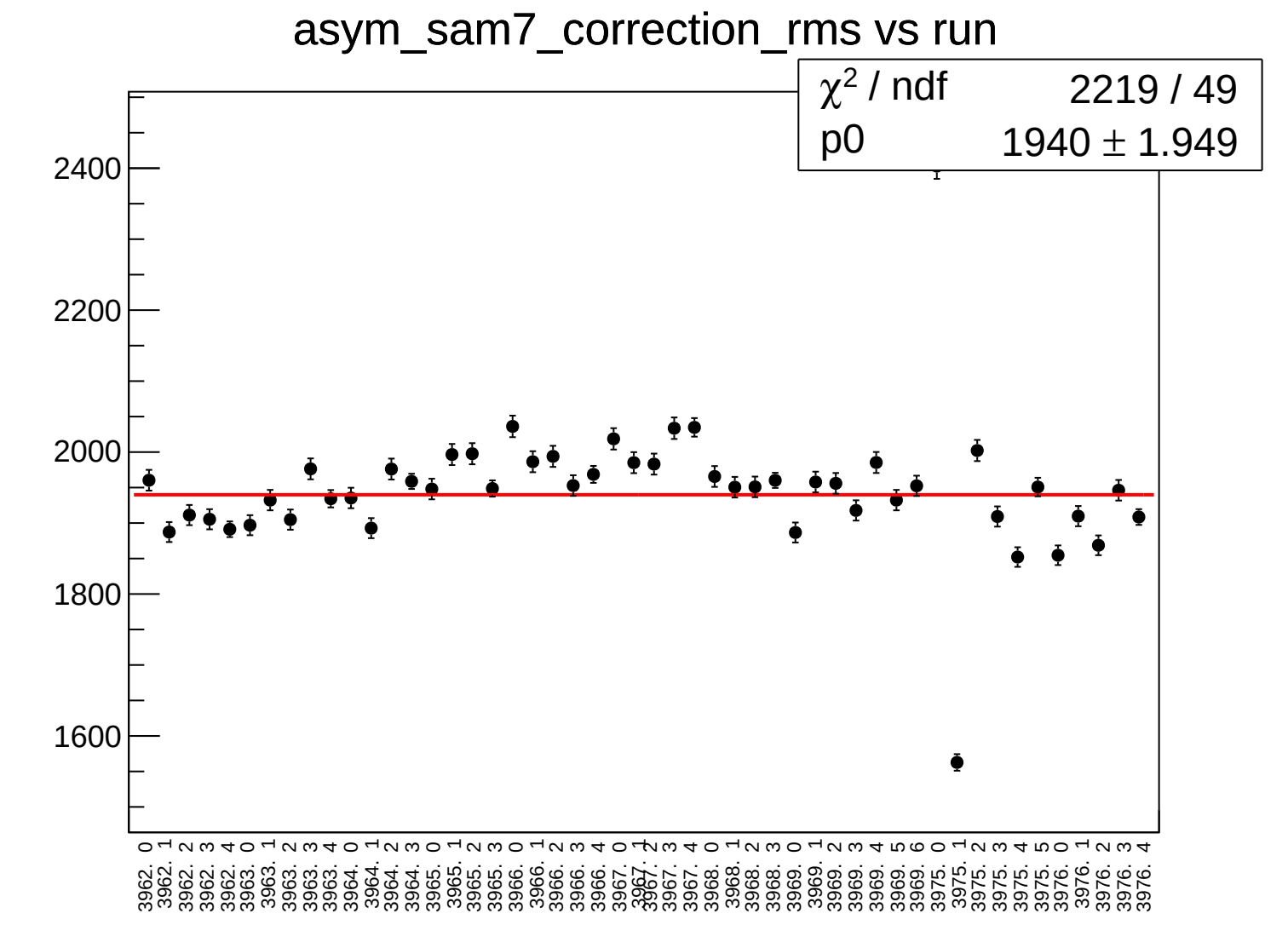
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_sam7_correction_mean vs run
χ² / ndf 39.13 / 49
p0 −7304 ± 2757
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 50
Mean 92.92
Std Dev 72.08
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01902
Std Dev 0.8844
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_correction_rms vs run
χ² / ndf 2219 / 49
p0 1940 ± 1.949
2400
2200
2000
1800
1600
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
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3966. 1
3966. 2
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3967. 3
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3969. 0
3969. 1
3969. 2
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3969. 4
3969. 5
3969. 6
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3975. 4
3975. 5
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3976. 1
3976. 2
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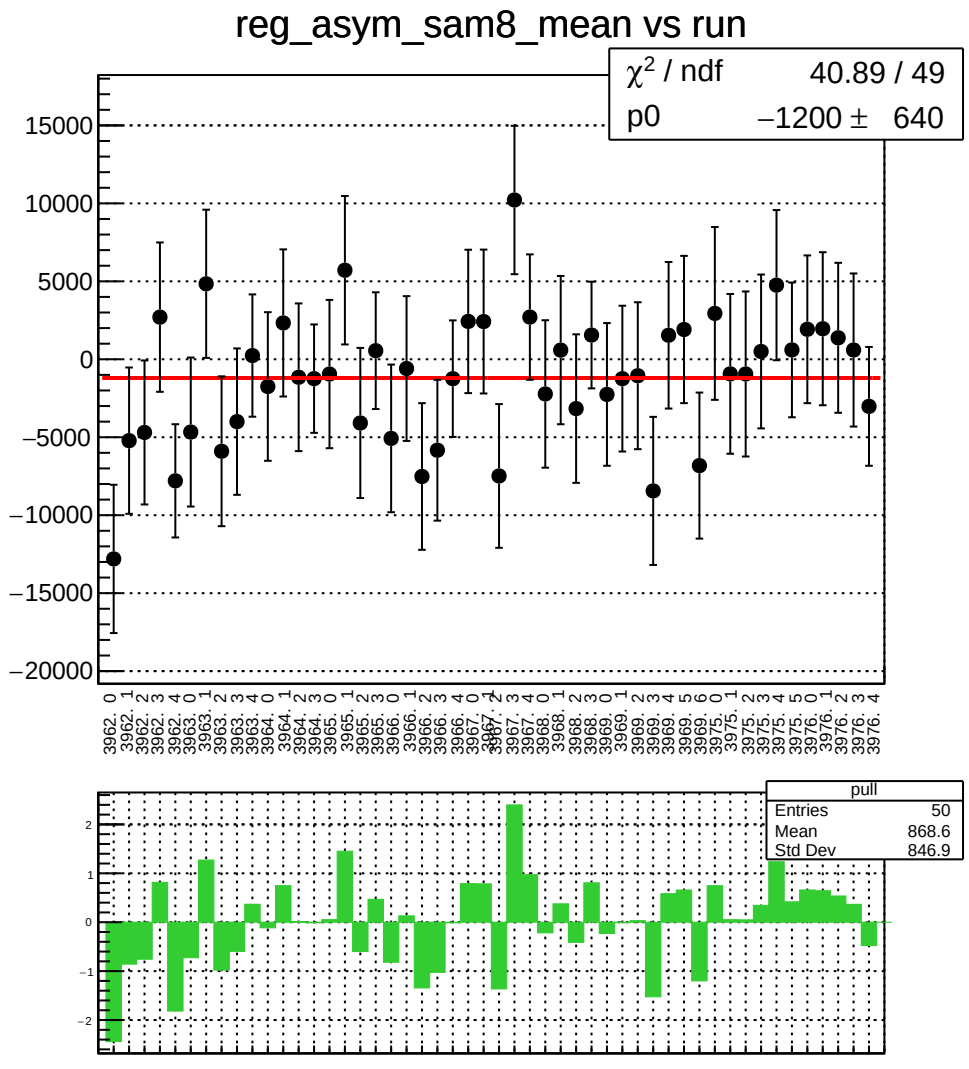
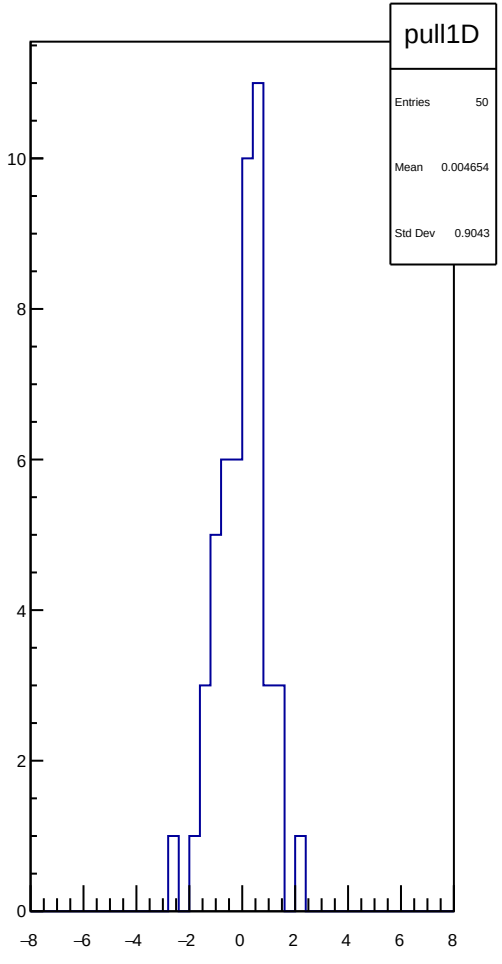
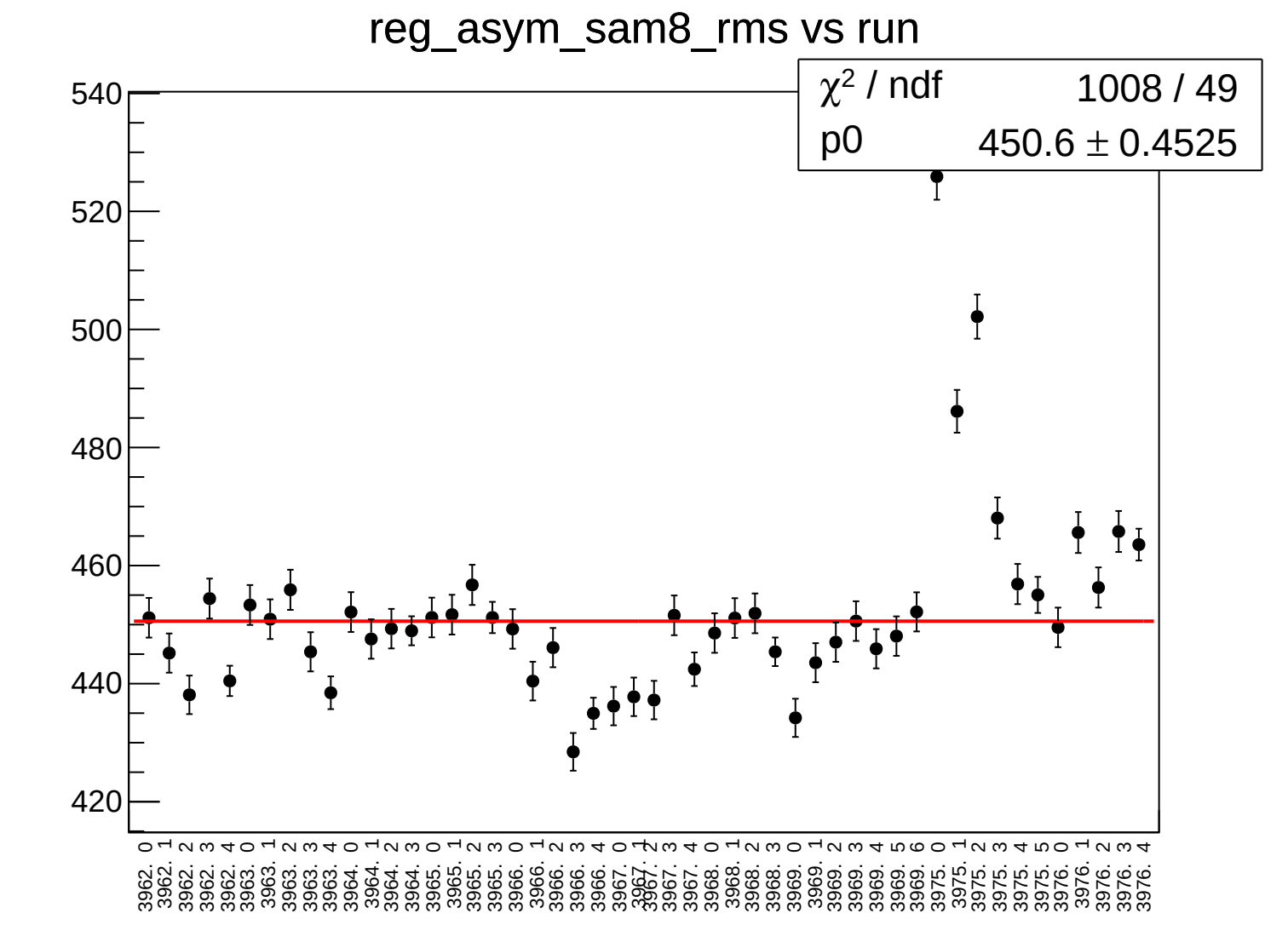

reg_asym_sam8_mean vs run
χ² / ndf 40.89 / 49
p0 −1200 ± 640
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 50
Mean 868.6
Std Dev 846.9
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.004654
Std Dev 0.9043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_rms vs run
χ² / ndf 1008 / 49
p0 450.6 ± 0.4525
540
520
500
480
460
440
420
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
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3965. 2
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3966. 2
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3967. 4
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3968. 2
3968. 3
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3969. 3
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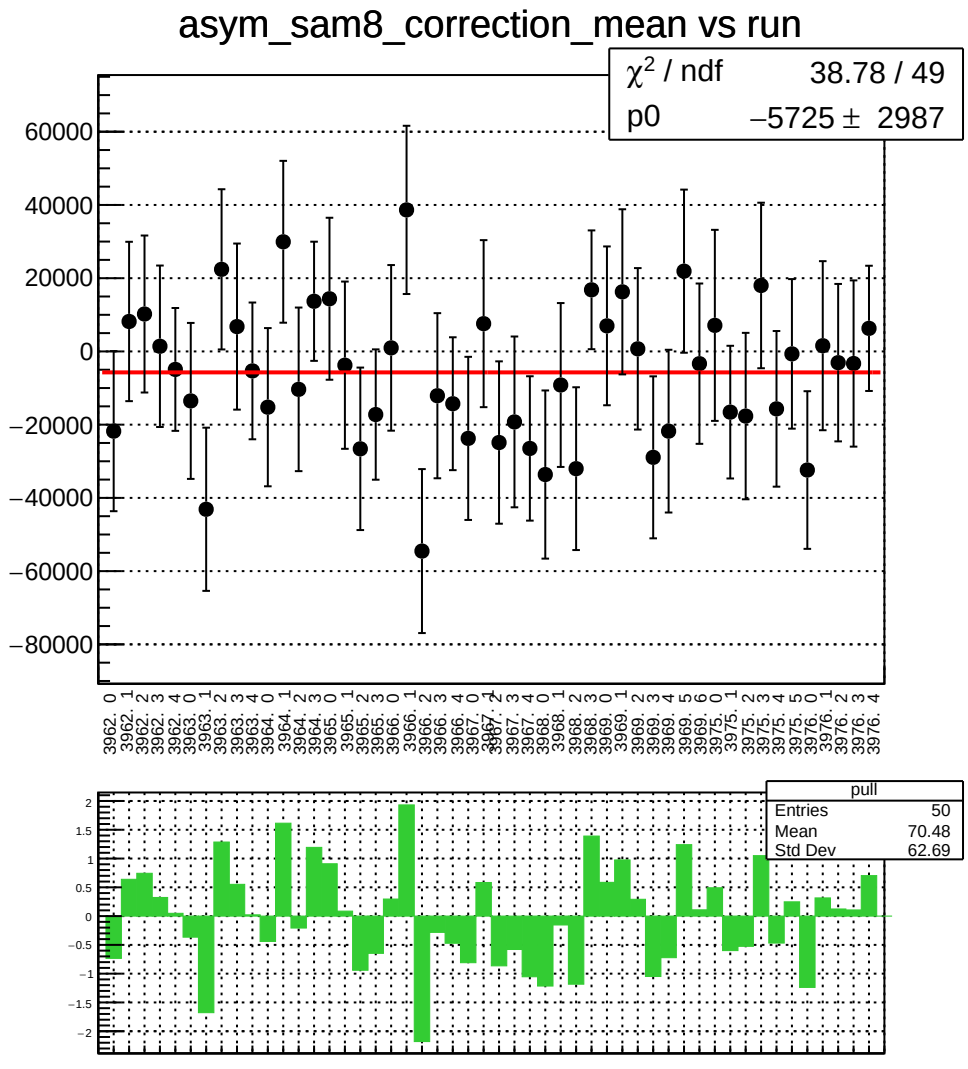
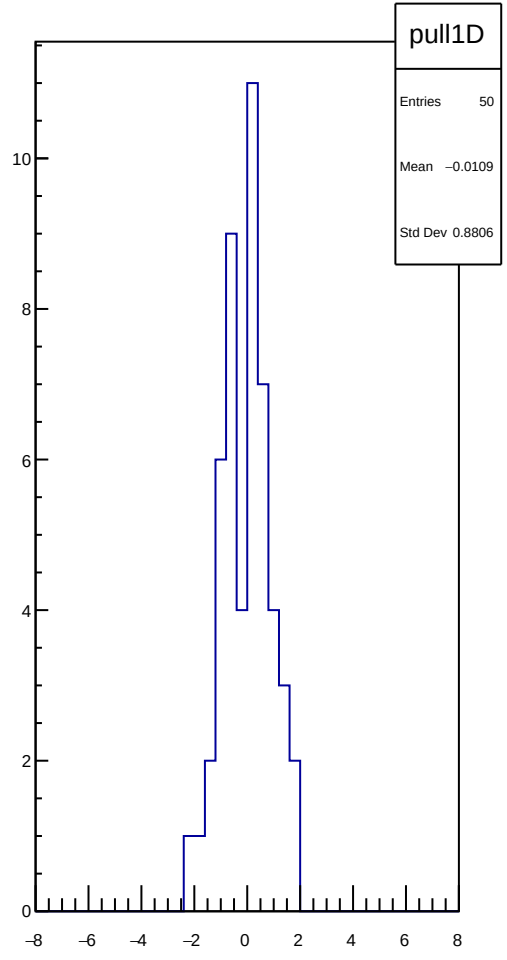
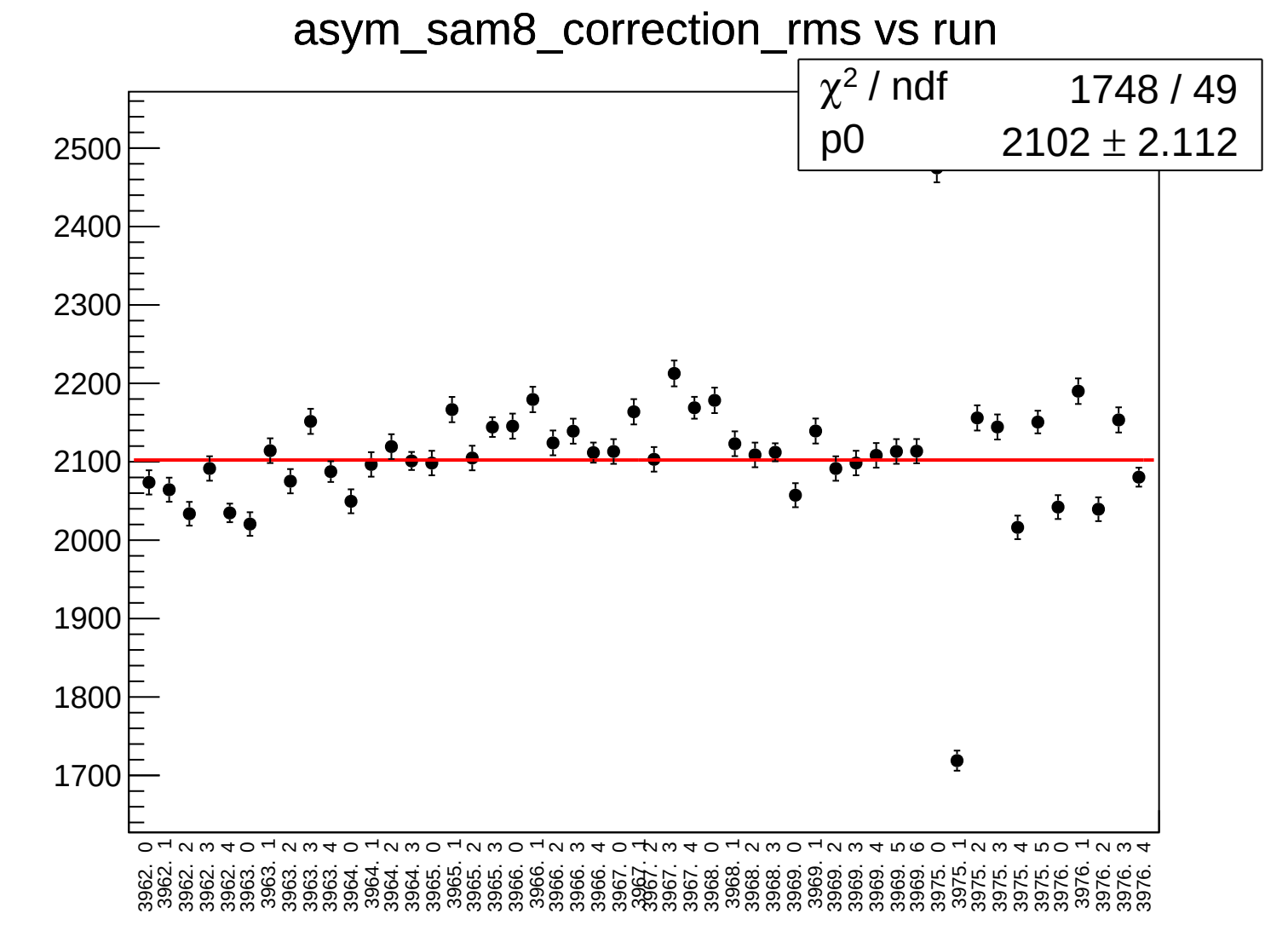
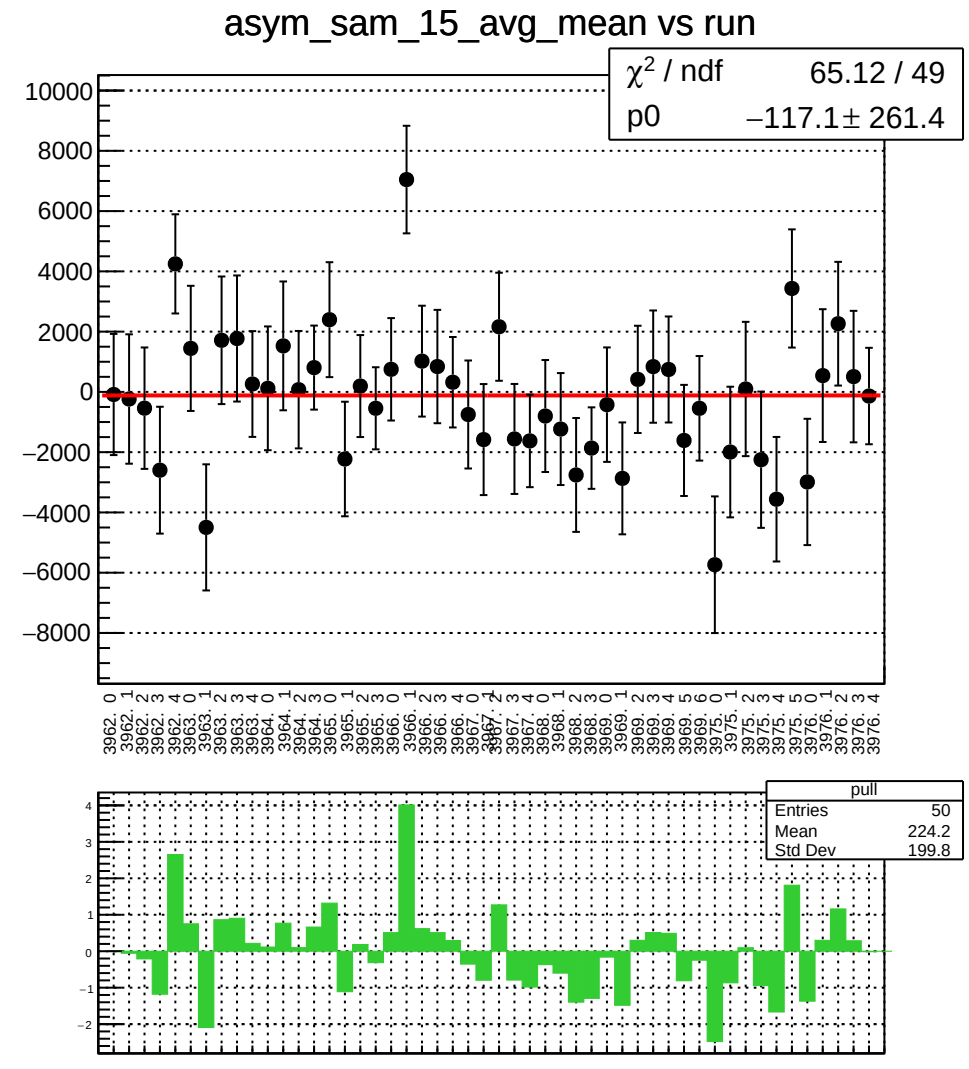
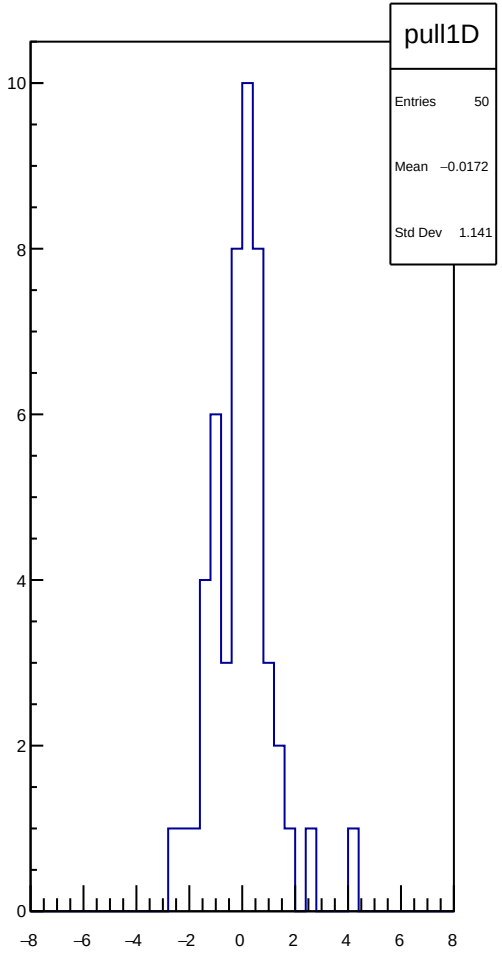
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

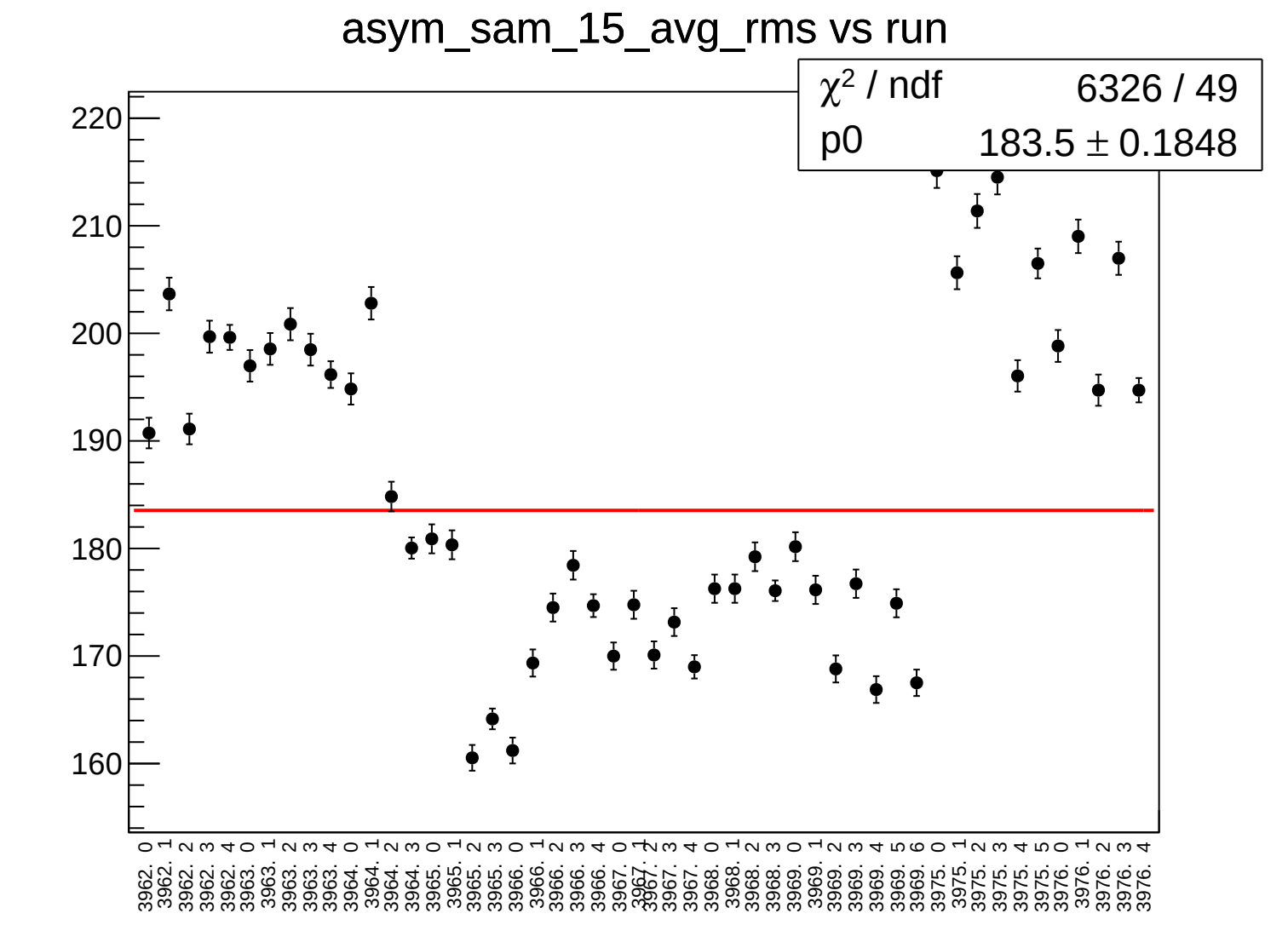

asym_sam8_correction_mean vs run
χ² / ndf 38.78 / 49
p0 −5725 ± 2987
pull
Entries 50
Mean 70.48
Std Dev 62.69

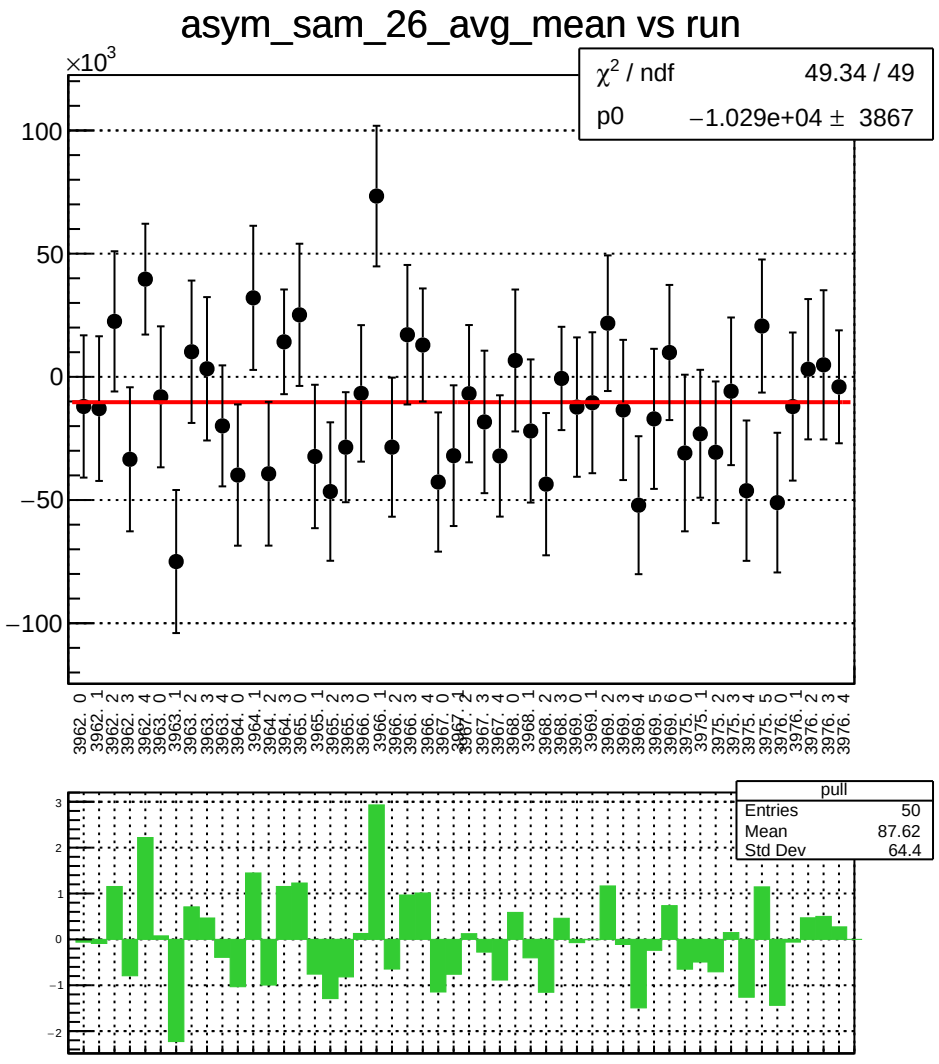

pull1D
Entries 50
Mean −0.0109
Std Dev 0.8806

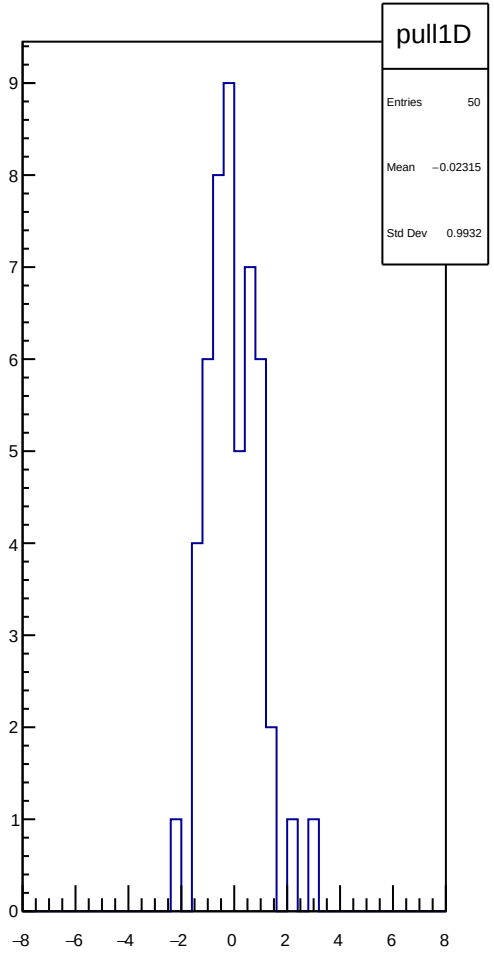

asym_sam8_correction_rms vs run
χ² / ndf 1748 / 49
p0 2102 ± 2.112
2500
2400
2300
2200
2100
2000
1900
1800
1700
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

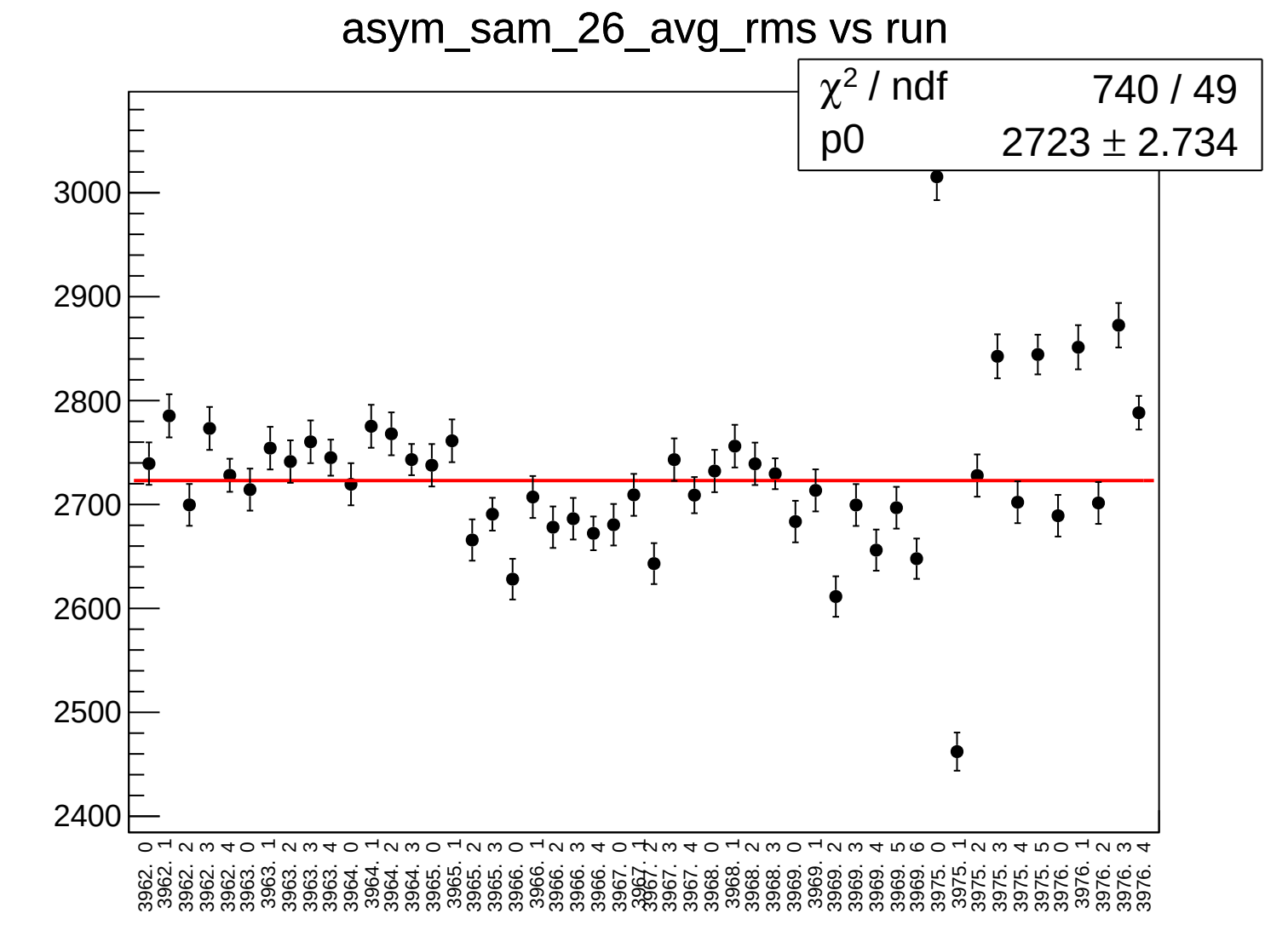

asym_sam_15_avg_mean vs run
χ² / ndf 65.12 / 49
p0 −117.1± 261.4
pull
Entries 50
Mean 224.2
Std Dev 199.8

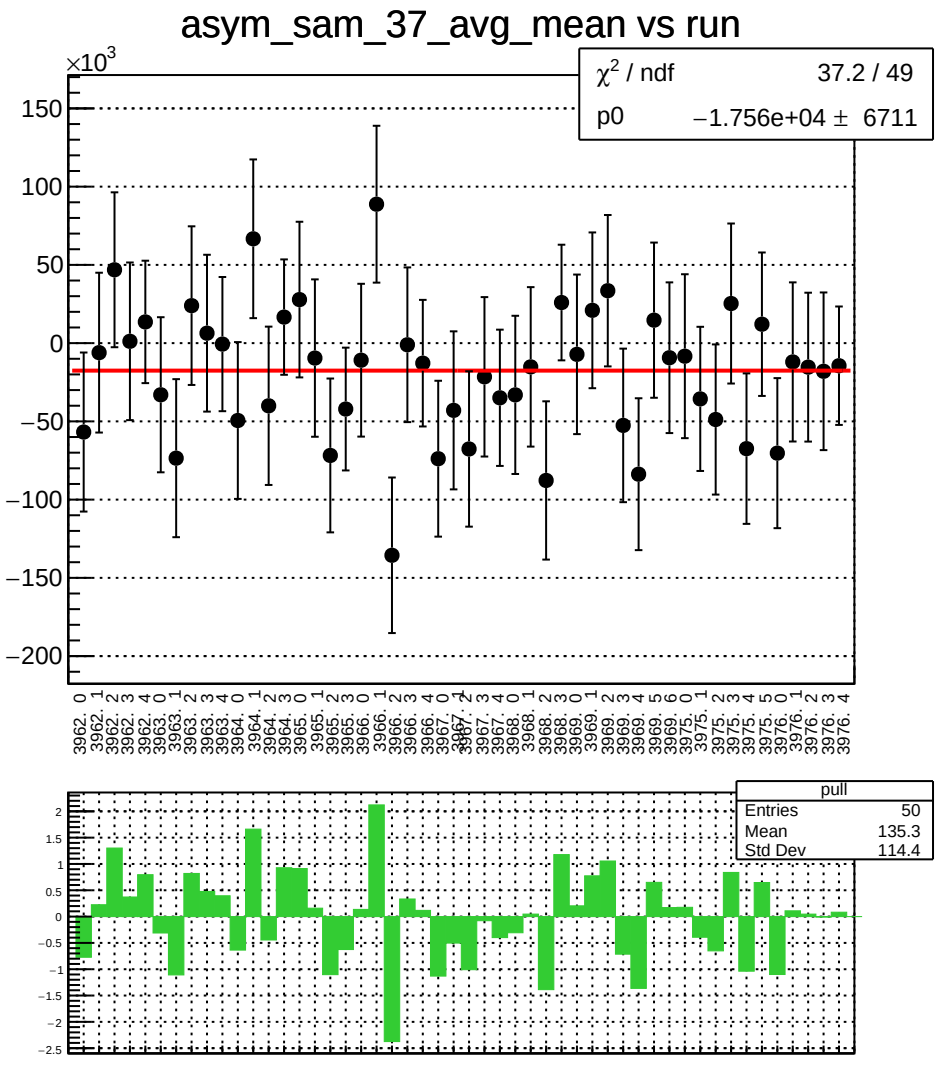

pull1D
Entries 50
Mean −0.0172
Std Dev 1.141

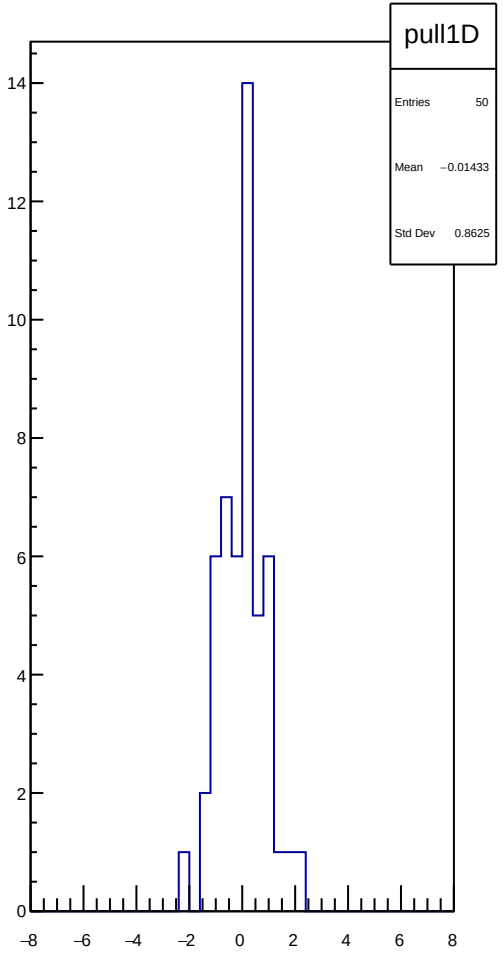

asym_sam_15_avg_rms vs run
χ² / ndf 6326 / 49
p0 183.5 ± 0.1848
220
210
200
190
180
170
160
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

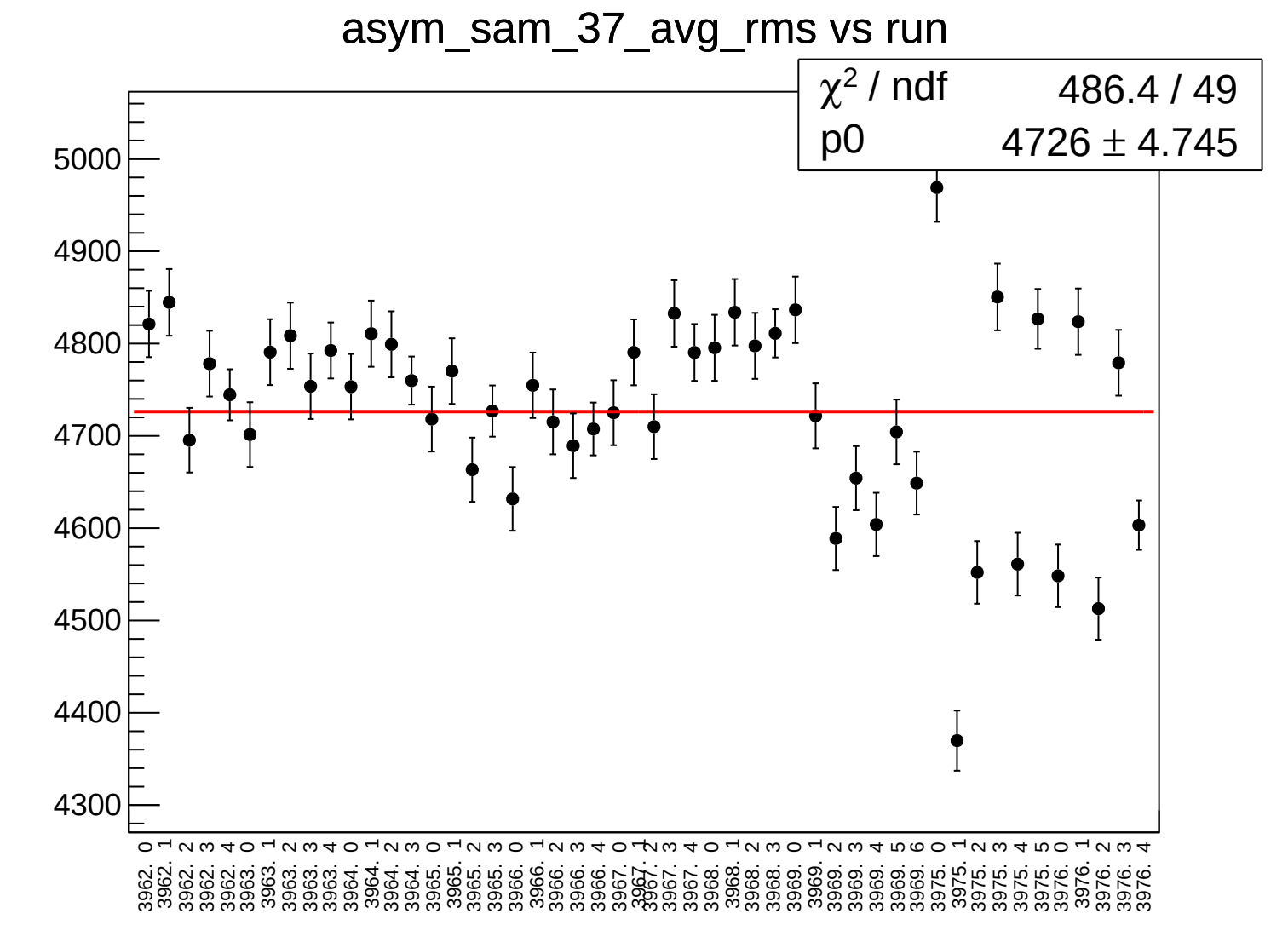

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 49.34 / 49
p0 −1.029e+04 ± 3867
100
50
0
−50
−100
pull
Entries 50
Mean 87.62
Std Dev 64.4
3
2
1
0
−1
−2

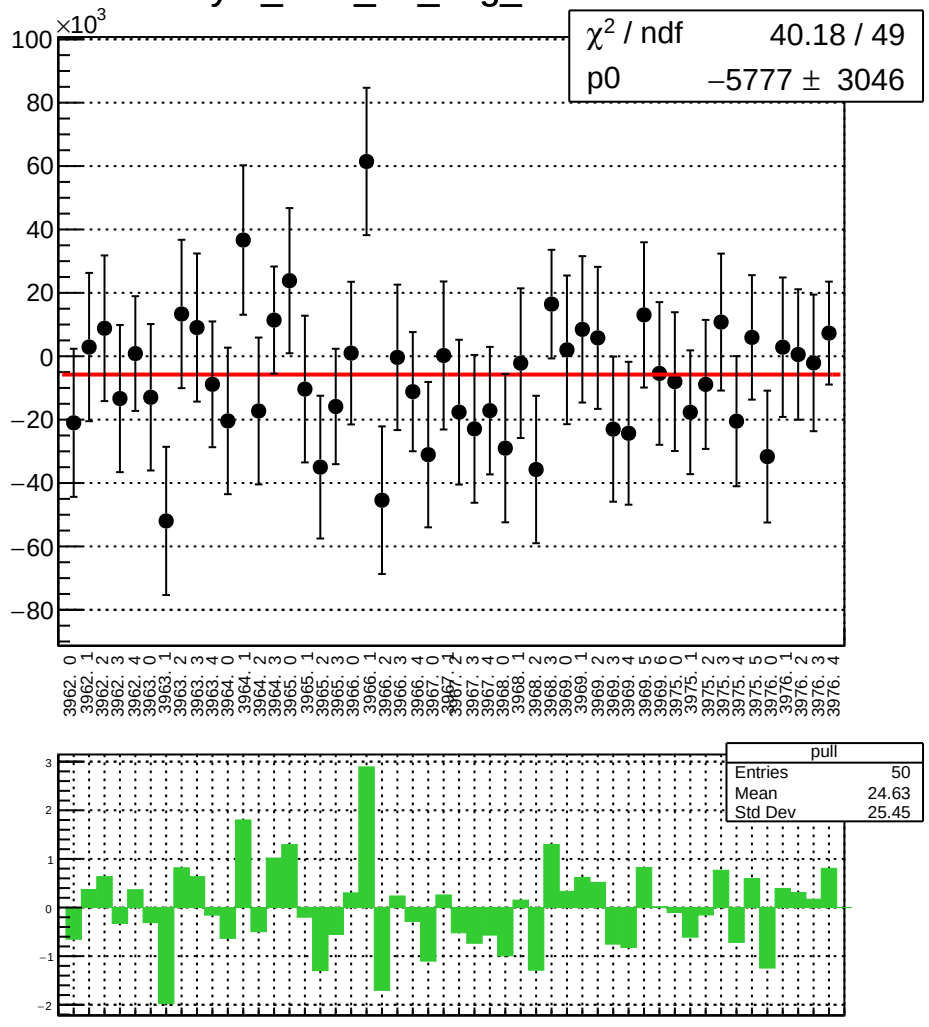

pull1D
Entries 50
Mean −0.02315
Std Dev 0.9932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

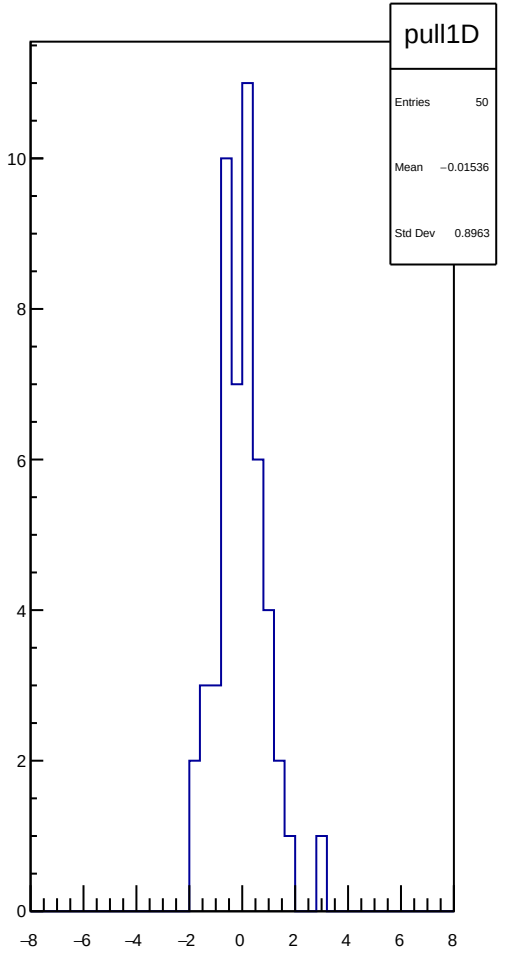

asym_sam_26_avg_rms vs run
χ² / ndf 740 / 49
p0 2723 ± 2.734
3000
2900
2800
2700
2600
2500
2400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

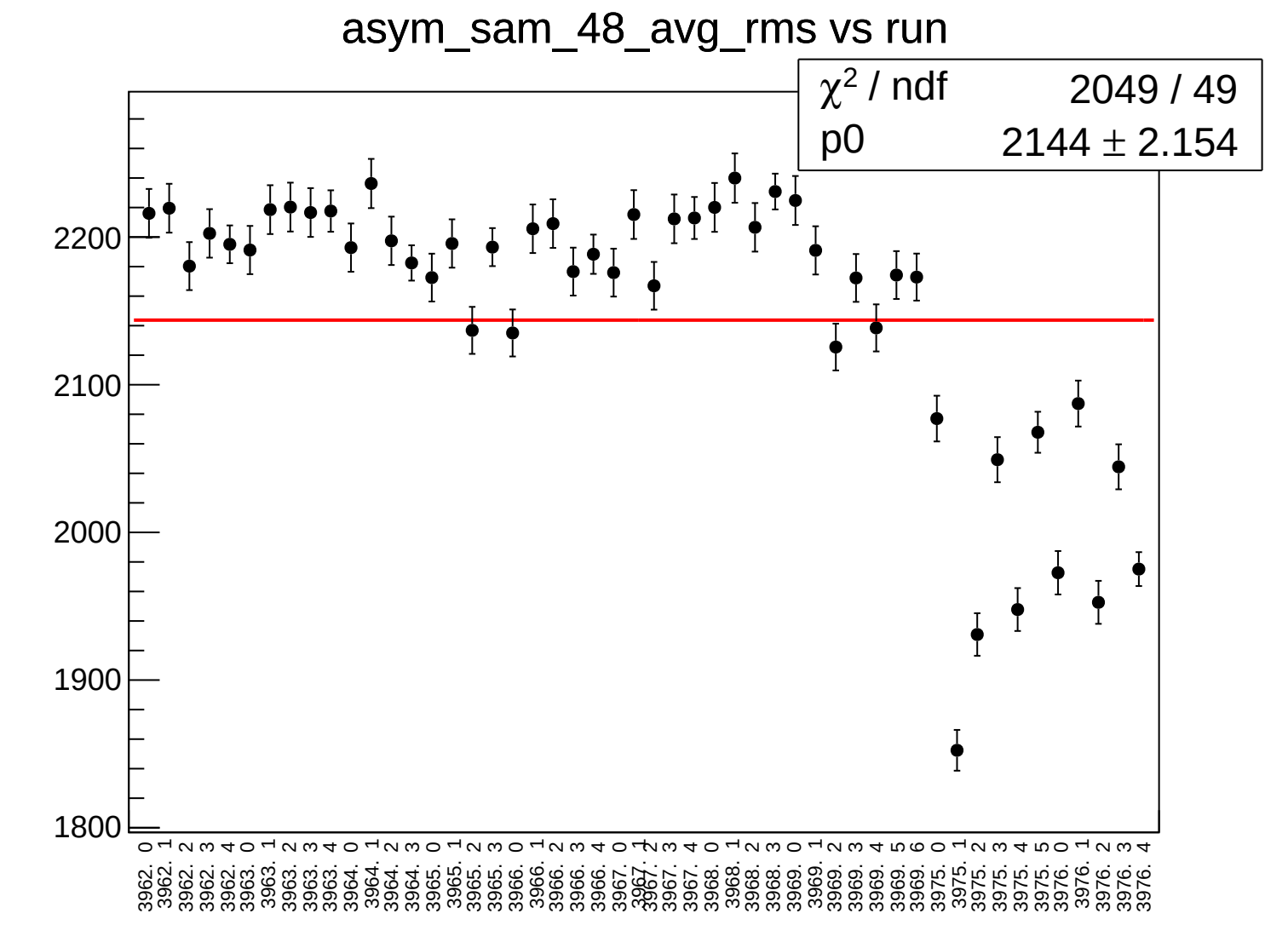

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 37.2 / 49
p0 −1.756e+04 ± 6711
150
100
50
0
−50
−100
−150
−200
pull
Entries 50
Mean 135.3
Std Dev 114.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

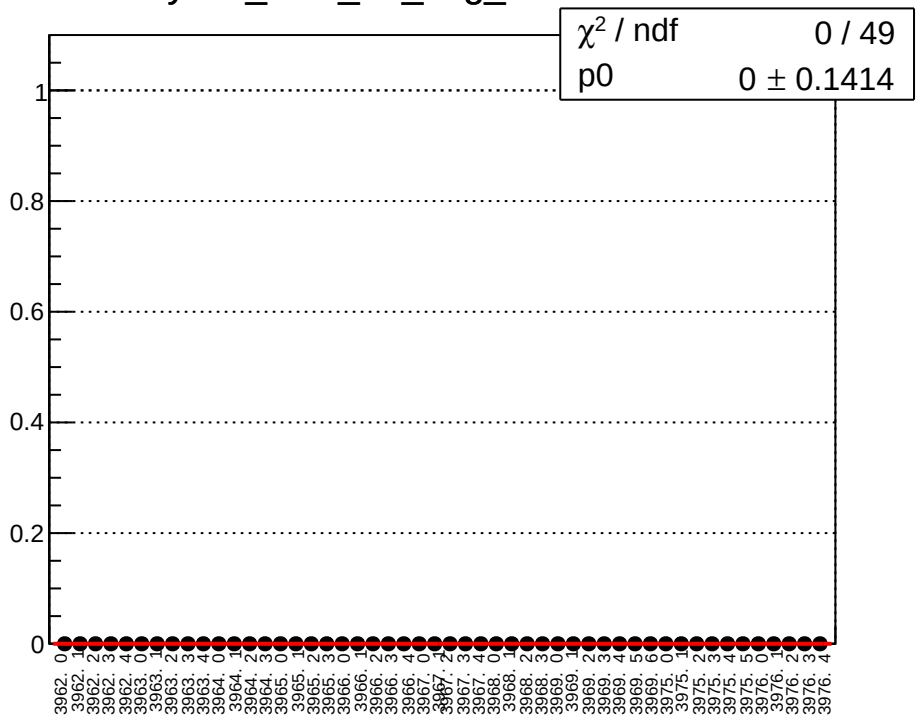

pull1D
Entries 50
Mean −0.01433
Std Dev 0.8625
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

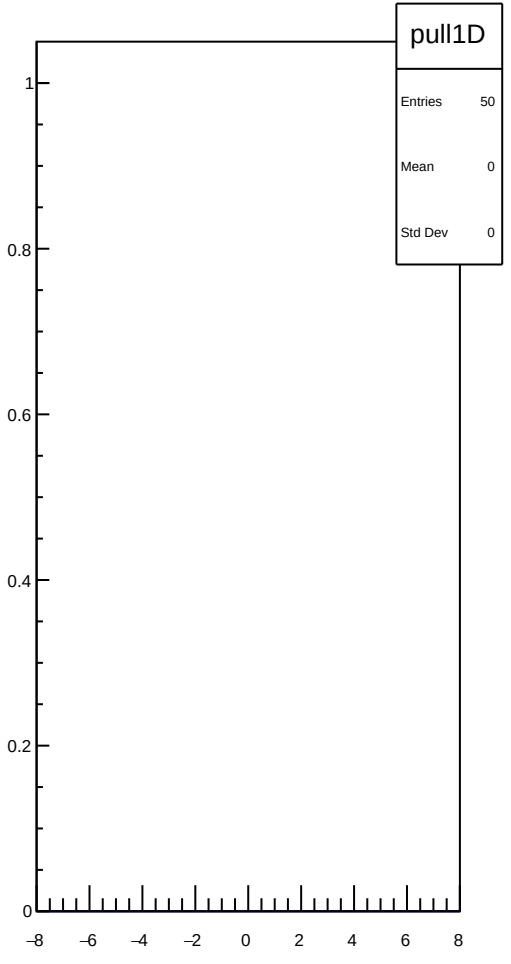

asym_sam_37_avg_rms vs run
χ² / ndf 486.4 / 49
p0 4726 ± 4.745
5000
4900
4800
4700
4600
4500
4400
4300
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

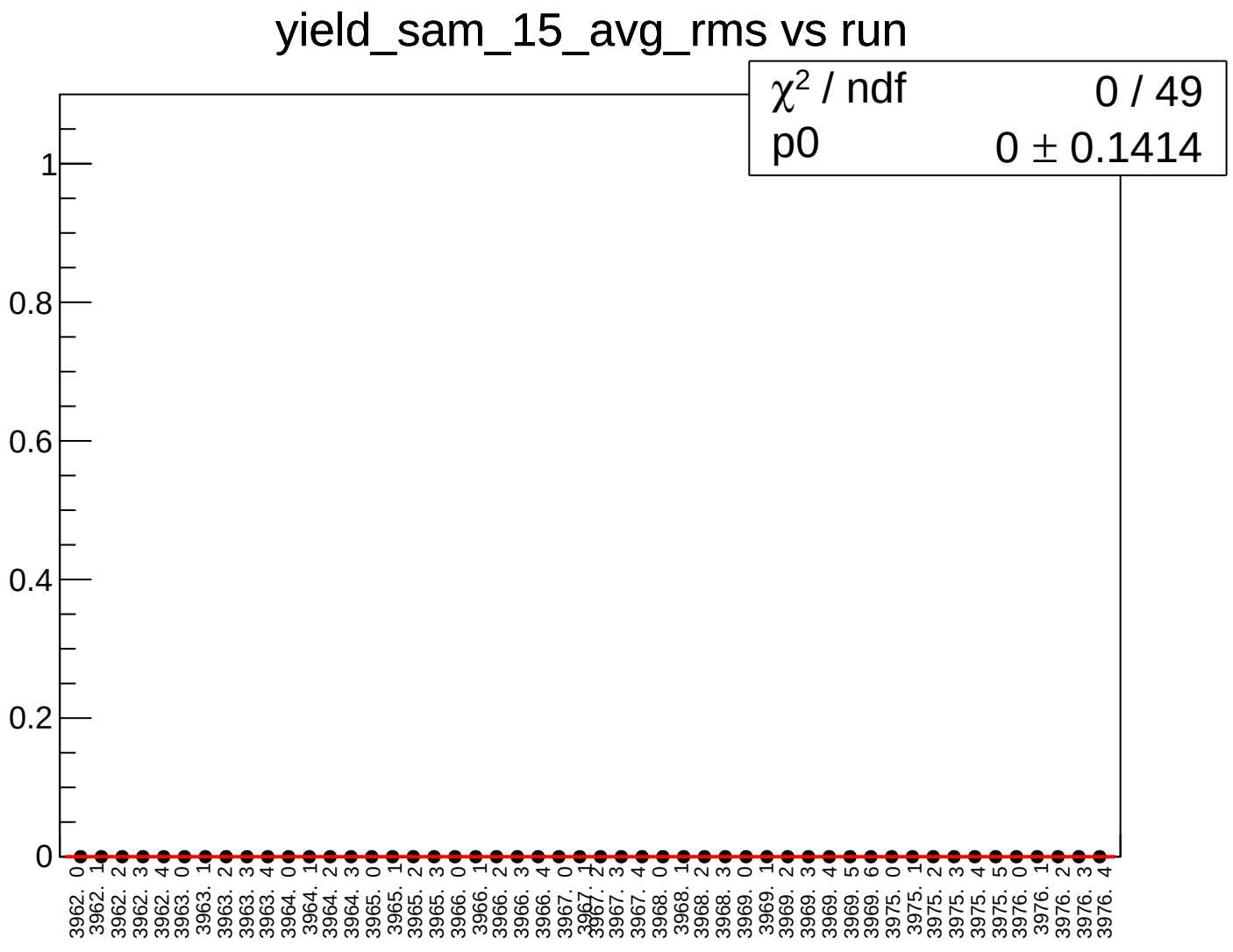

asym_sam_48_avg_mean vs run
χ² / ndf 40.18 / 49
p0 −5777 ± 3046
pull
Entries 50
Mean 24.63
Std Dev 25.45


pull1D
Entries 50
Mean −0.01536
Std Dev 0.8963


asym_sam_48_avg_rms vs run
χ² / ndf 2049 / 49
p0 2144 ± 2.154
2200
2100
2000
1900
1800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


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


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


yield_sam_15_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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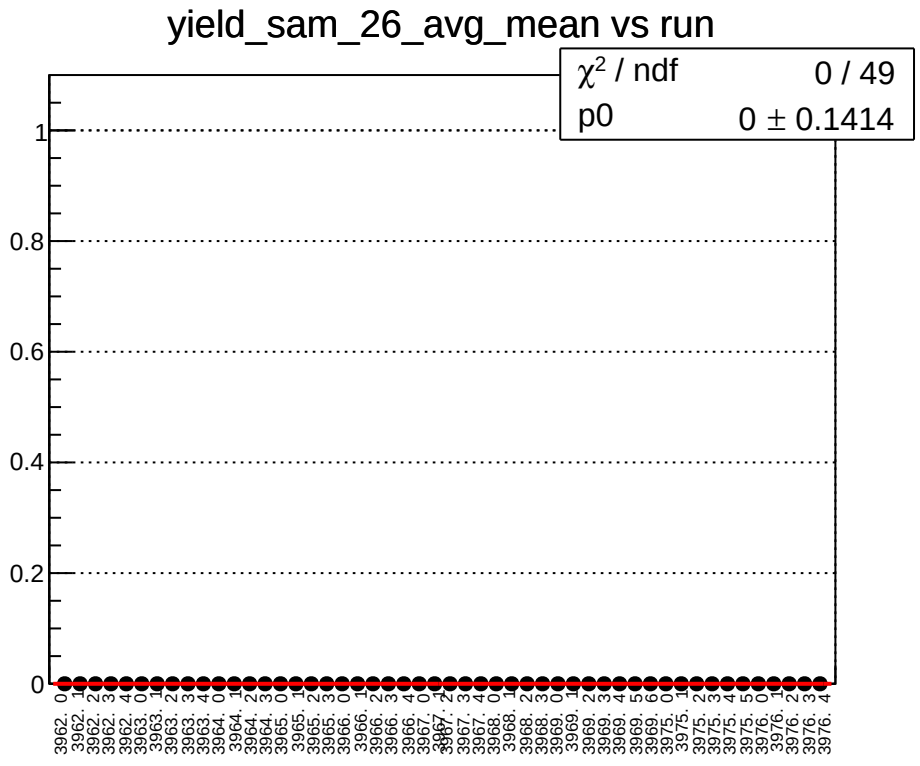
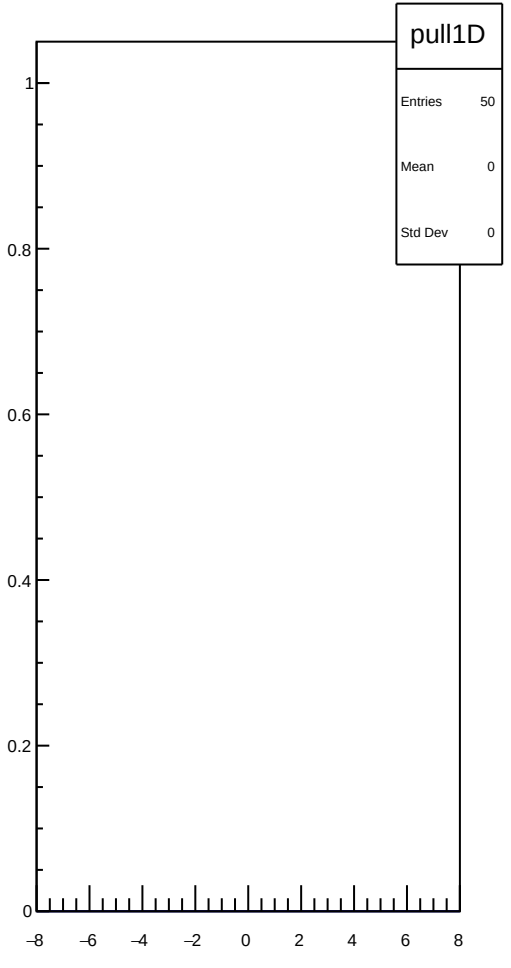
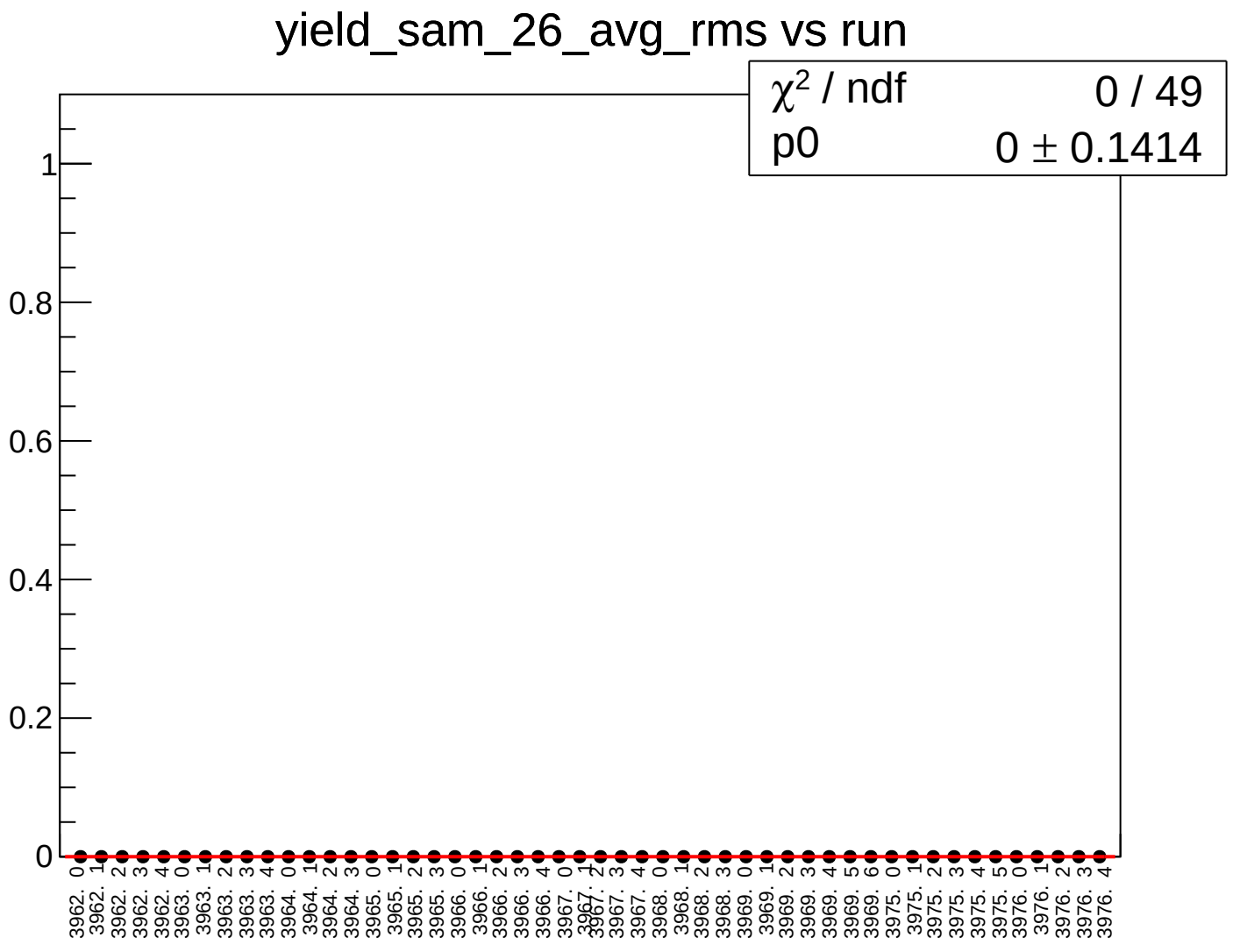
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


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


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


yield_sam_26_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
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3963. 4
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3964. 2
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3965. 0
3965. 1
3965. 2
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3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
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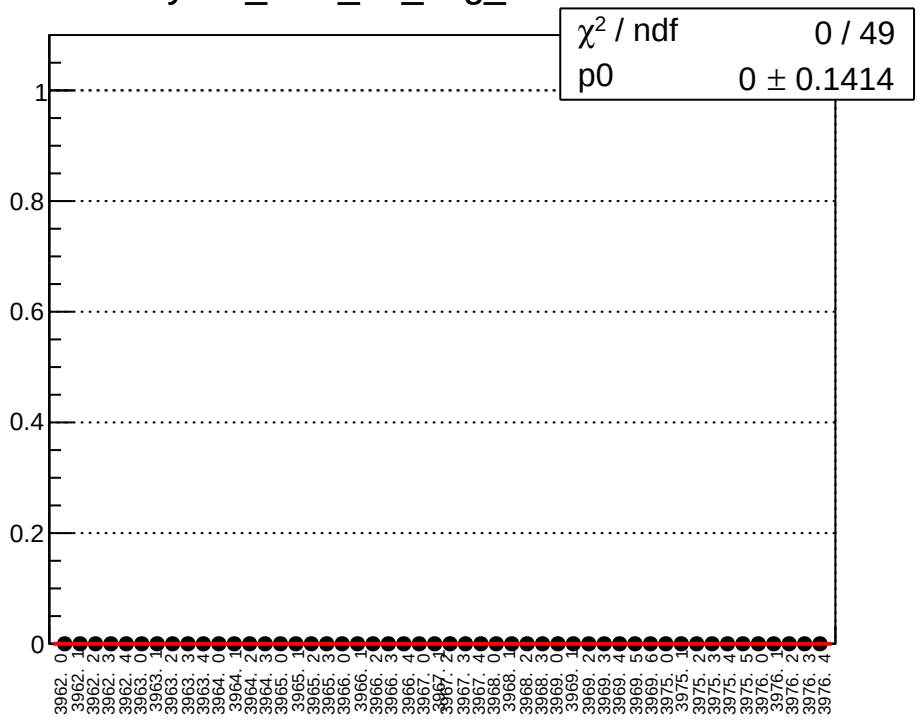
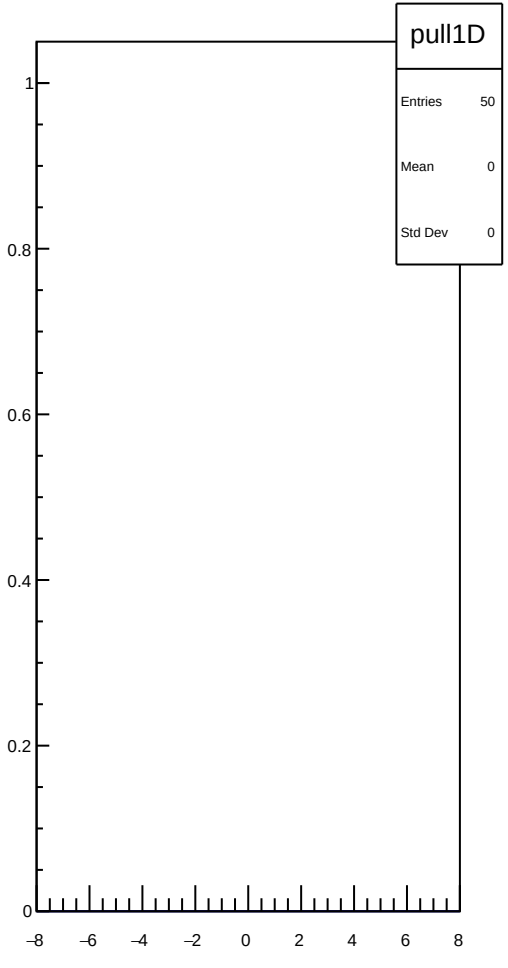
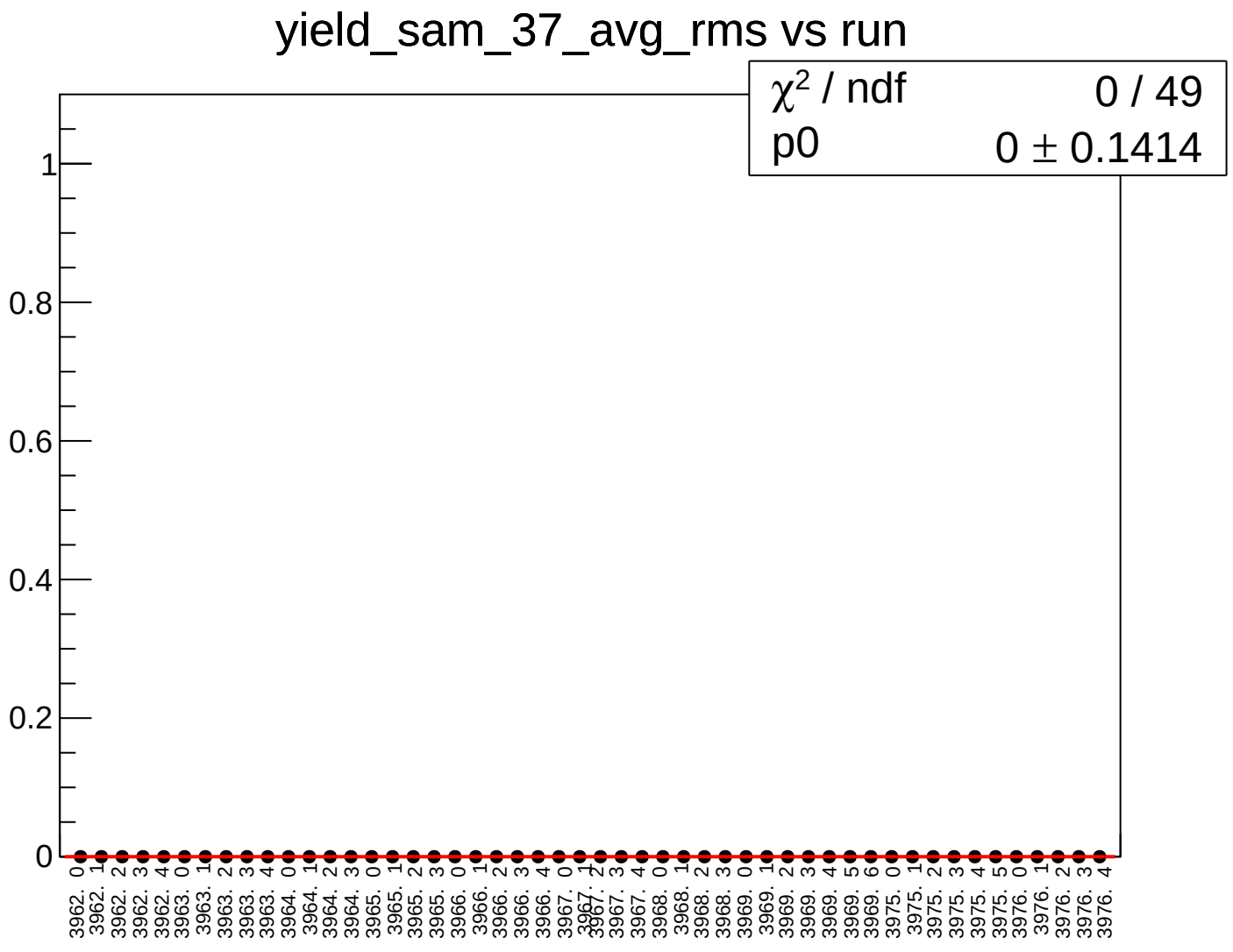
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


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


pull1D
Entries 50
Mean 0
Std Dev 0
1
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 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
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3964. 3
3965. 0
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3966. 2
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3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
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3969. 4
3969. 5
3969. 6
3975. 0
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3975. 2
3975. 3
3975. 4
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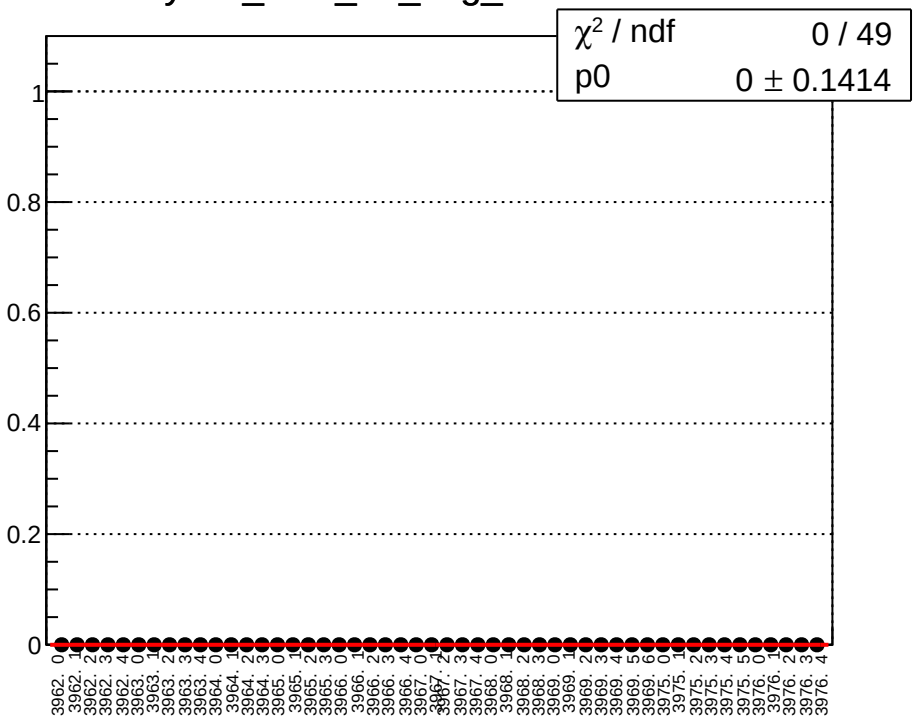
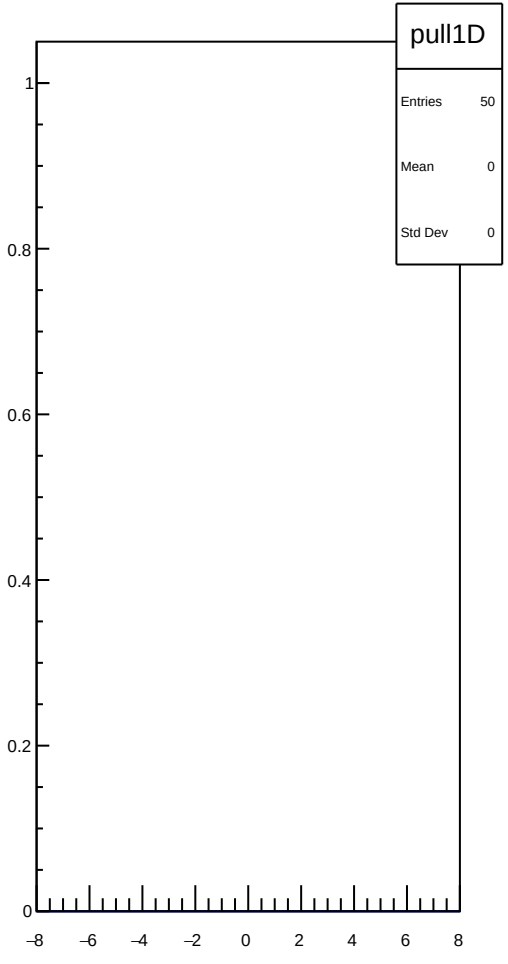
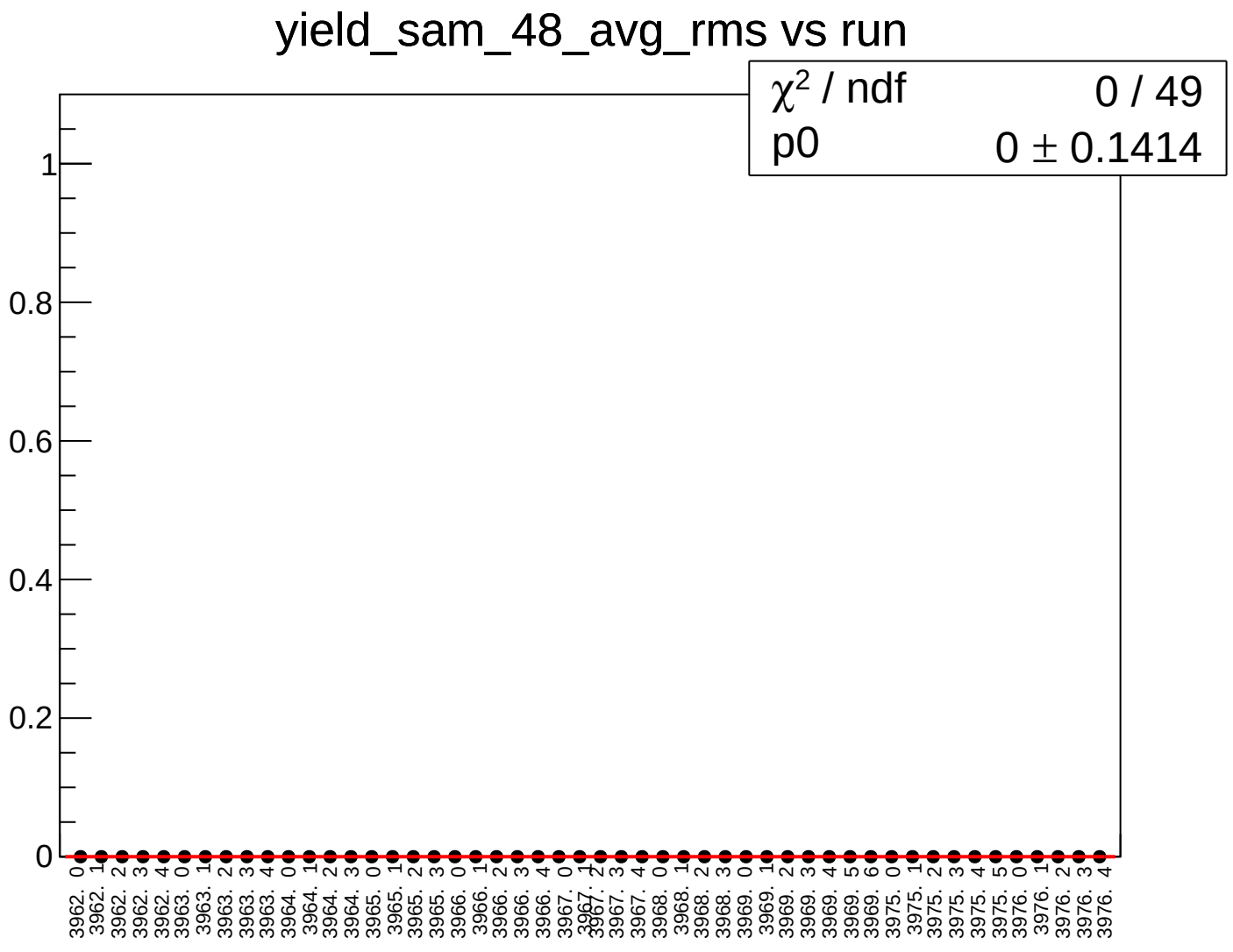
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


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


pull1D
Entries 50
Mean 0
Std Dev 0
1
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 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
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3964. 0
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3969. 1
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3976. 1
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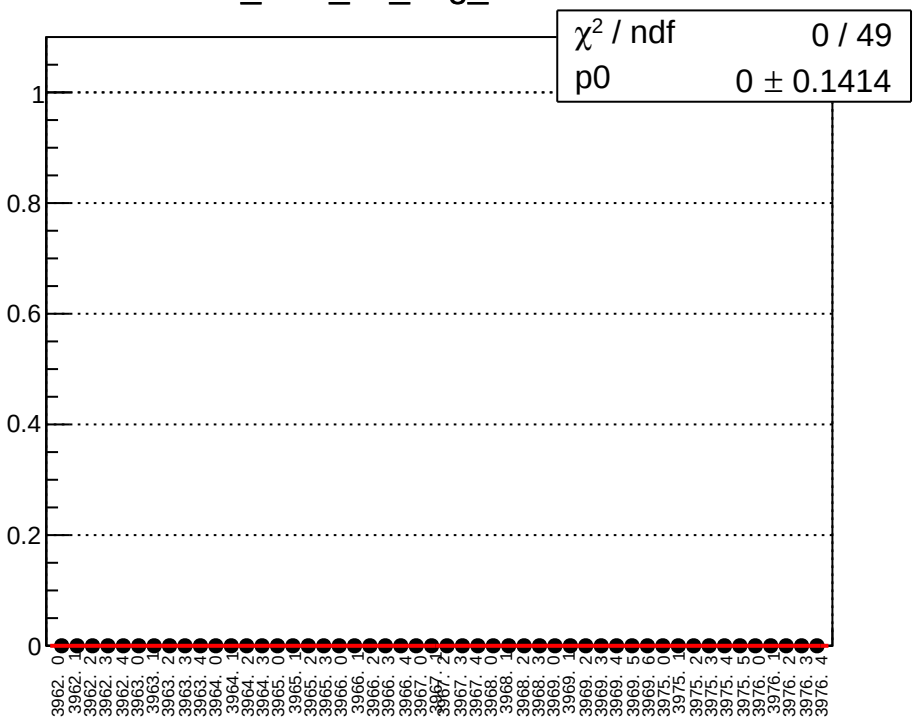
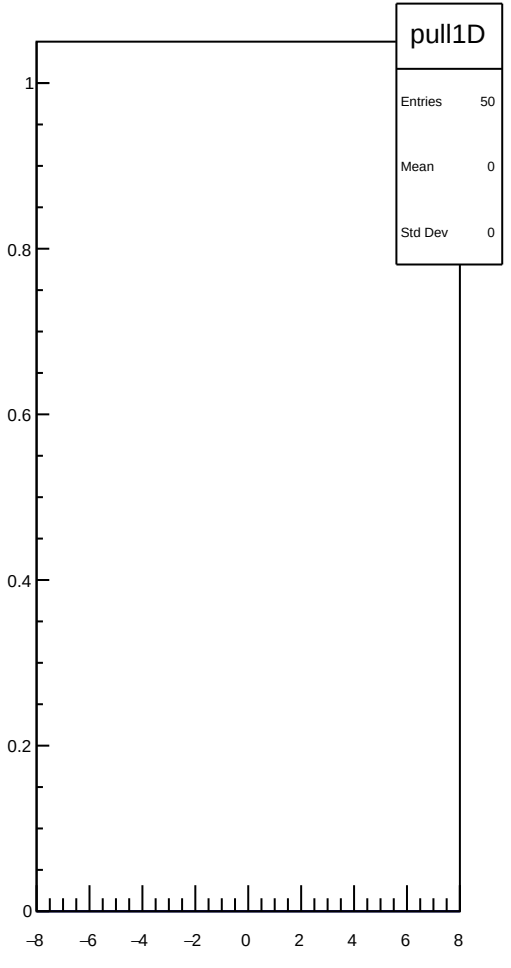
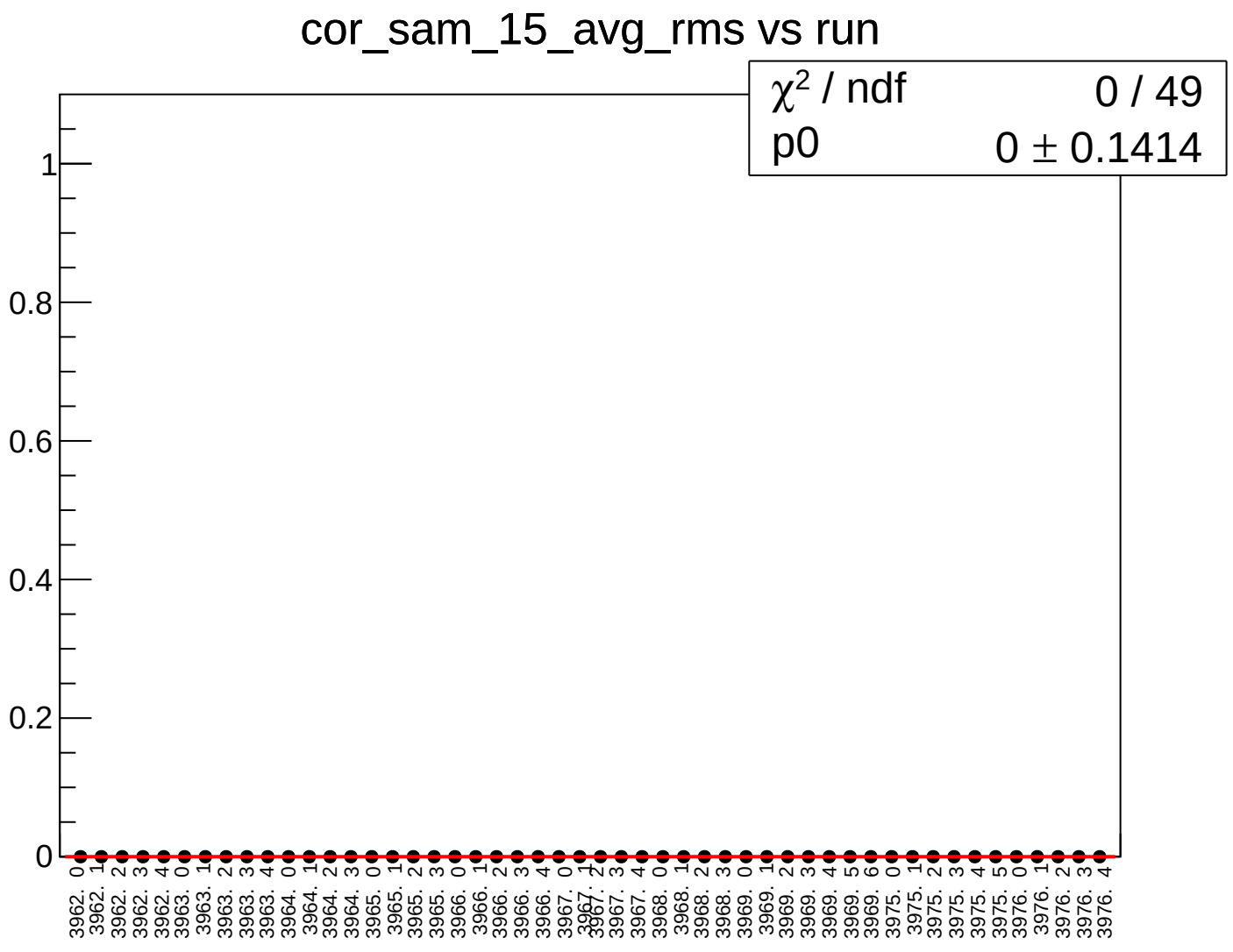
3976. 3
3976. 4


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


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


cor_sam_15_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
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3969. 4
3969. 5
3969. 6
3975. 0
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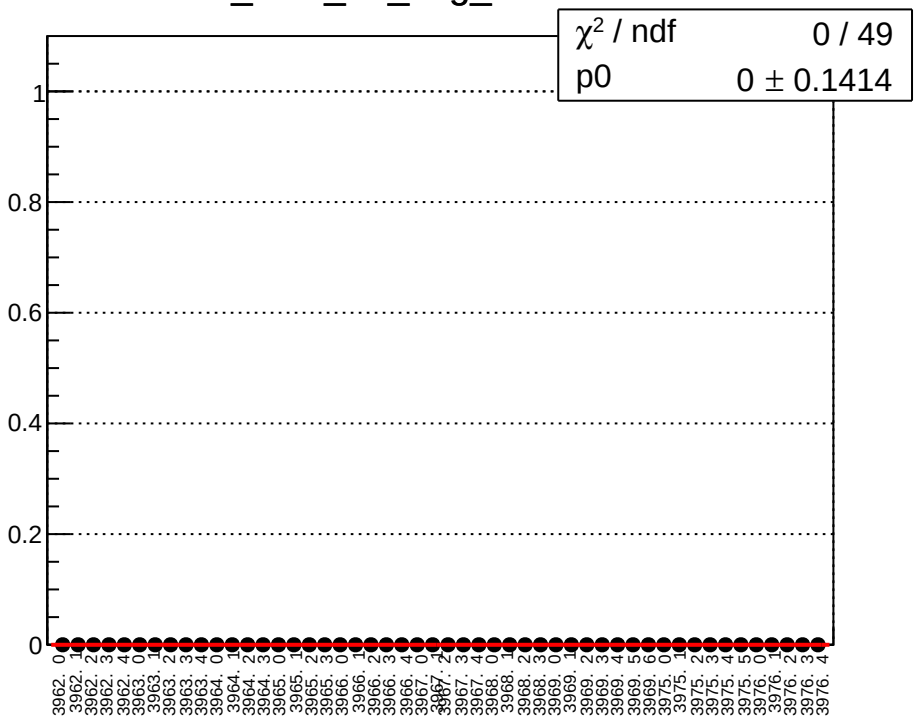
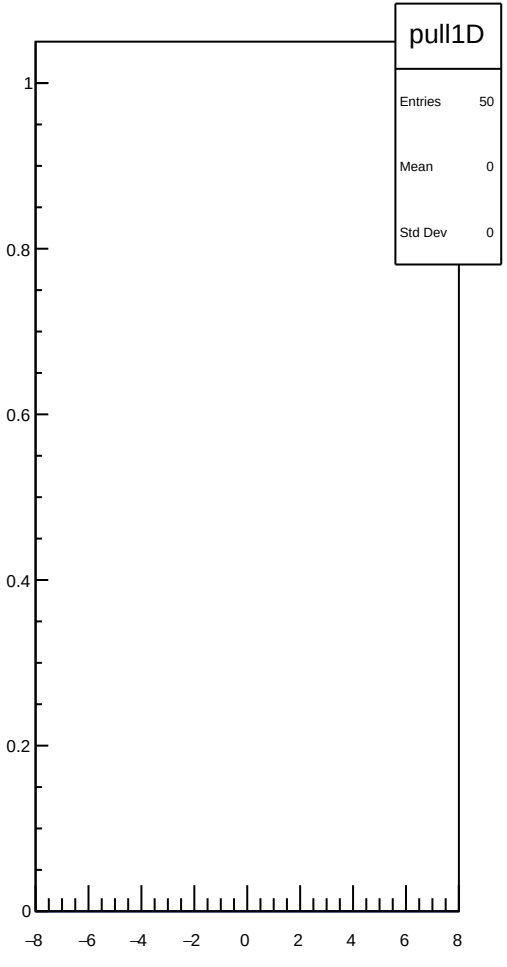
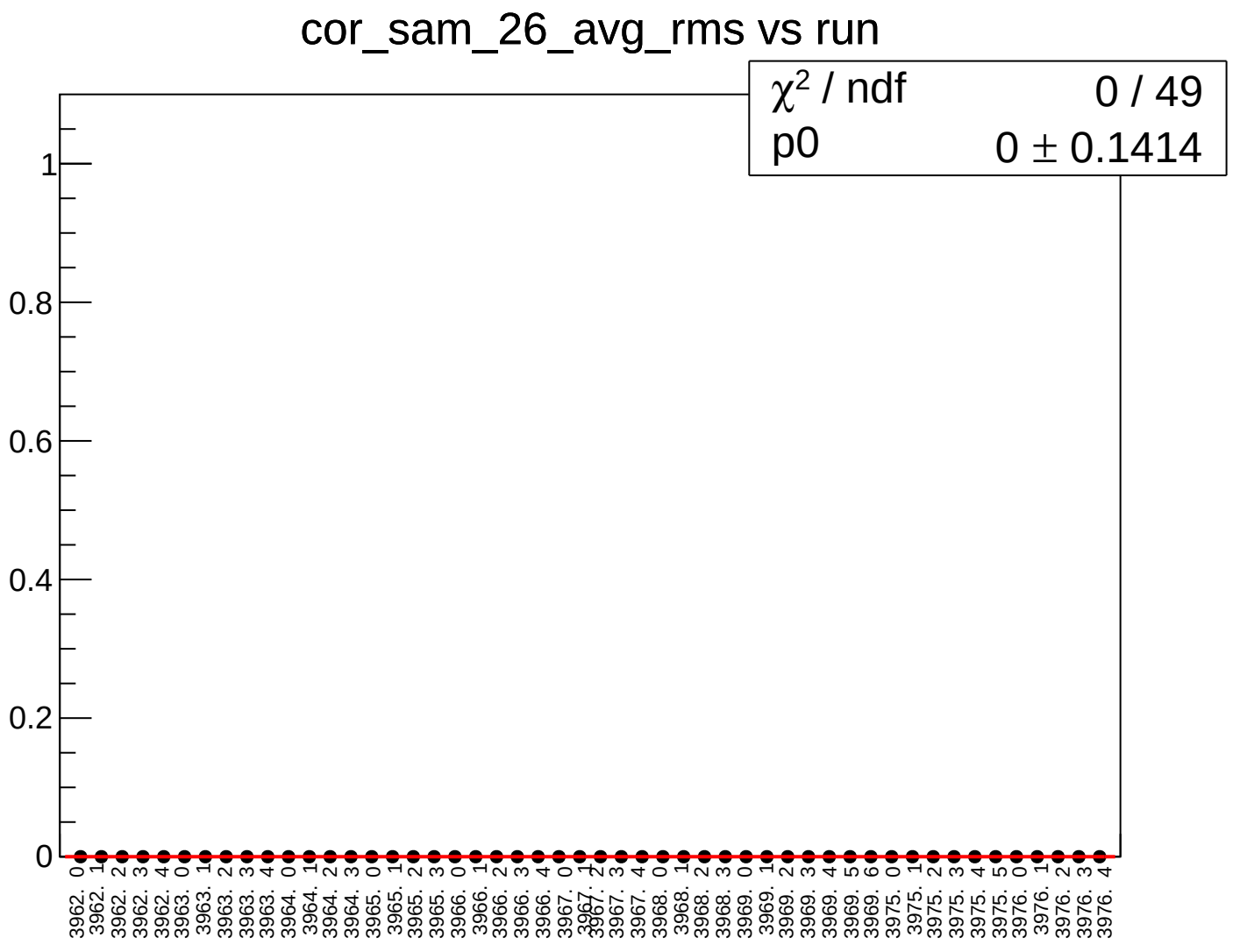
3976. 4


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


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


cor_sam_26_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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3975. 3
3975. 4
3975. 5
3976. 0
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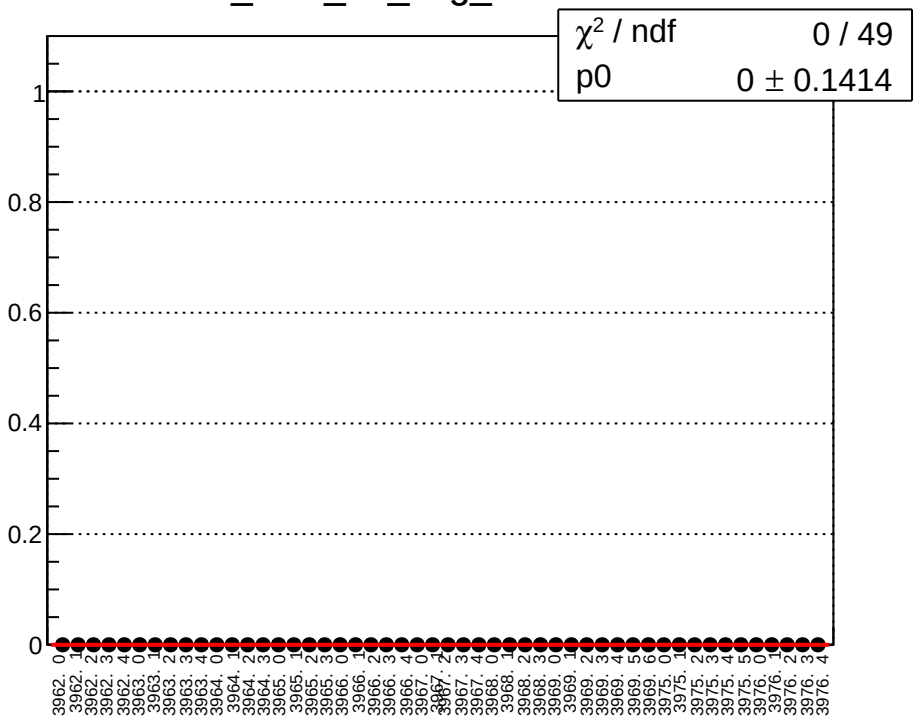
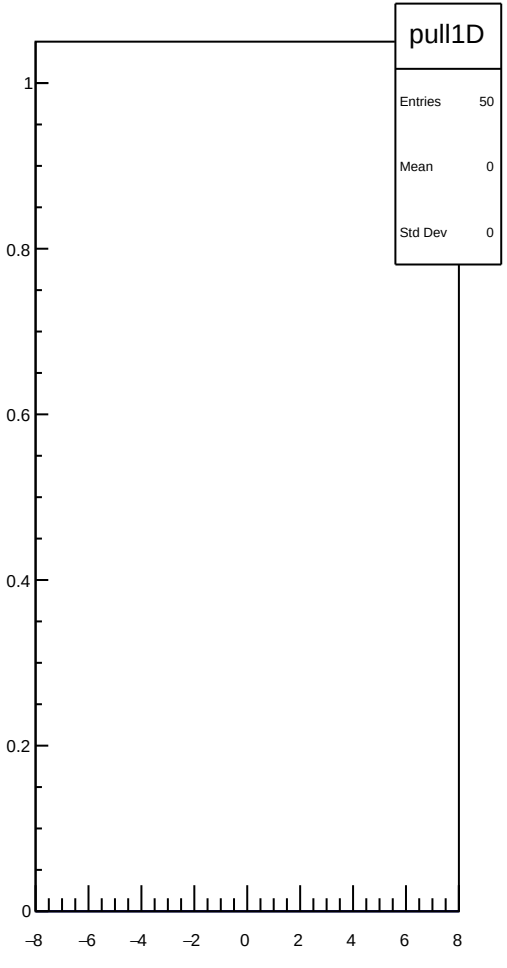
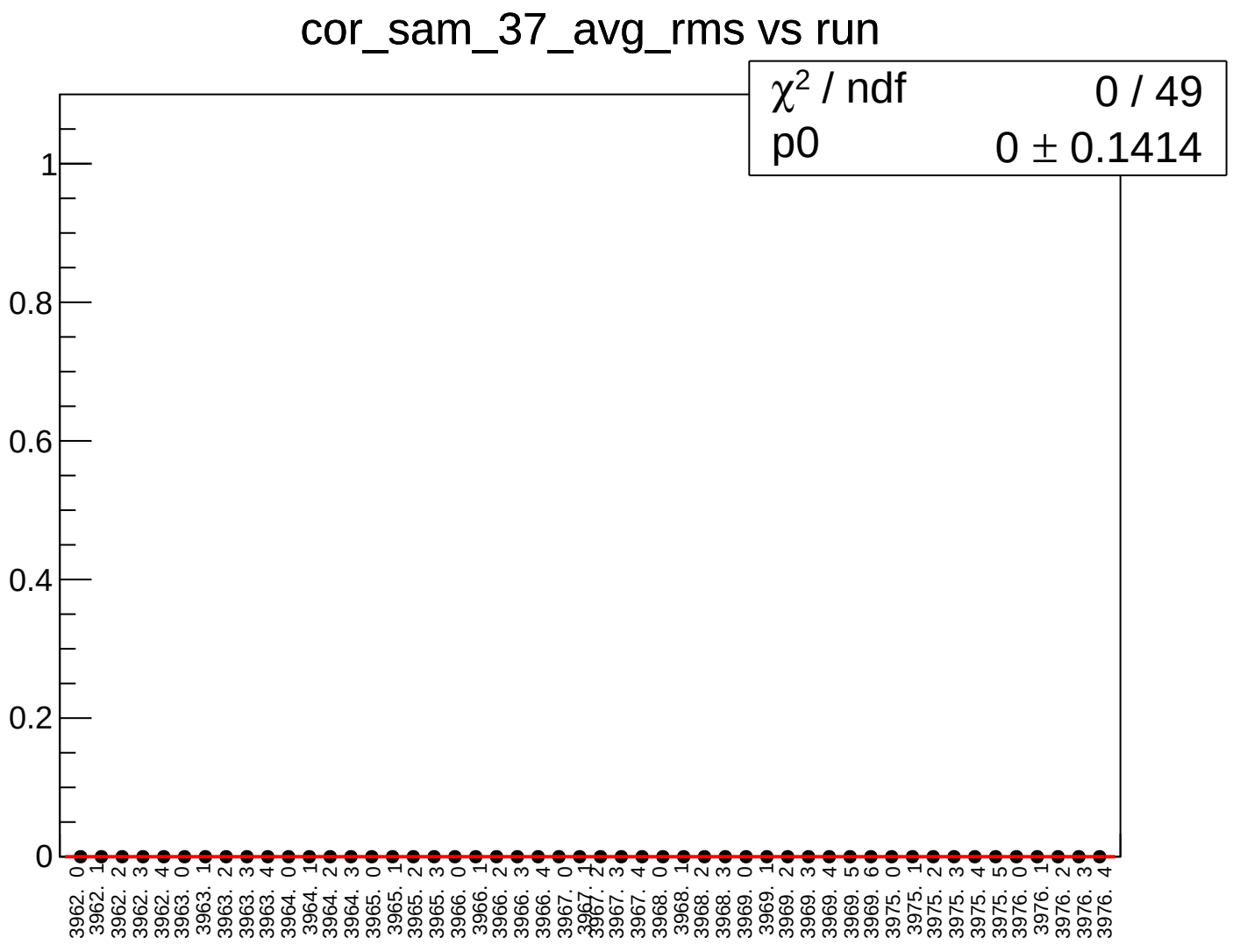
3976. 2
3976. 3
3976. 4


cor_sam_37_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


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


cor_sam_37_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
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3964. 2
3964. 3
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3965. 2
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3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
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3969. 4
3969. 5
3969. 6
3975. 0
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3975. 3
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3975. 5
3976. 0
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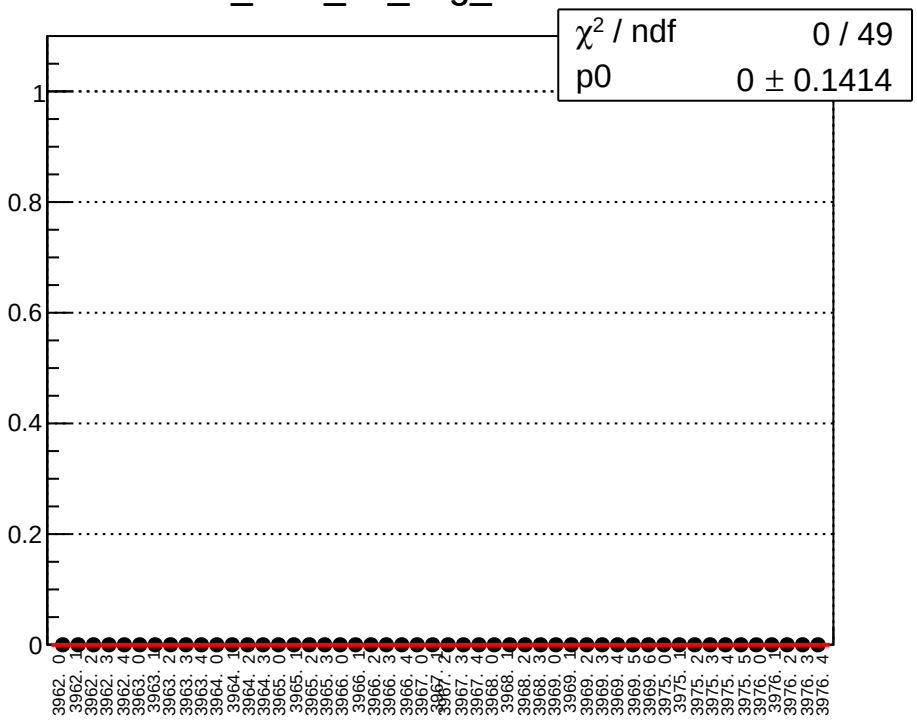
3976. 3
3976. 4


cor_sam_48_avg_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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3975. 3
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3976. 0
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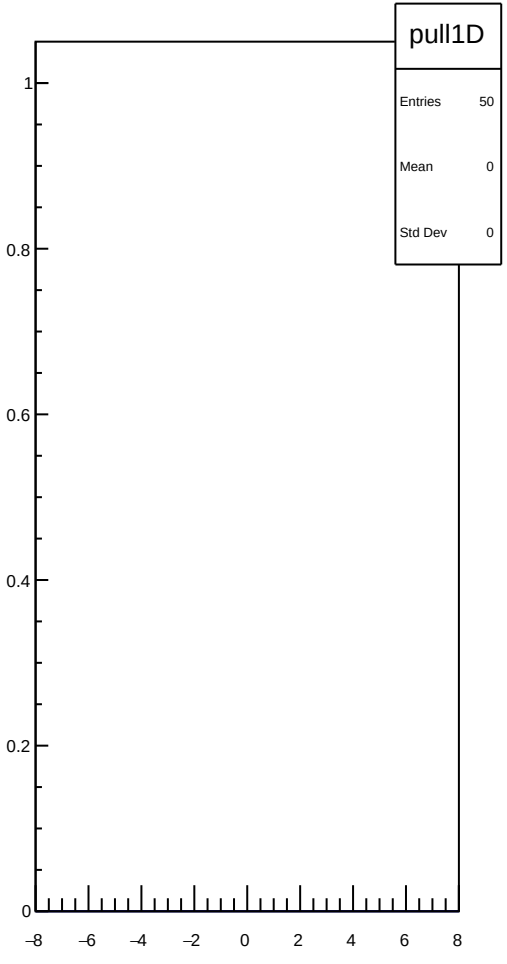
3976. 2
3976. 3
3976. 4


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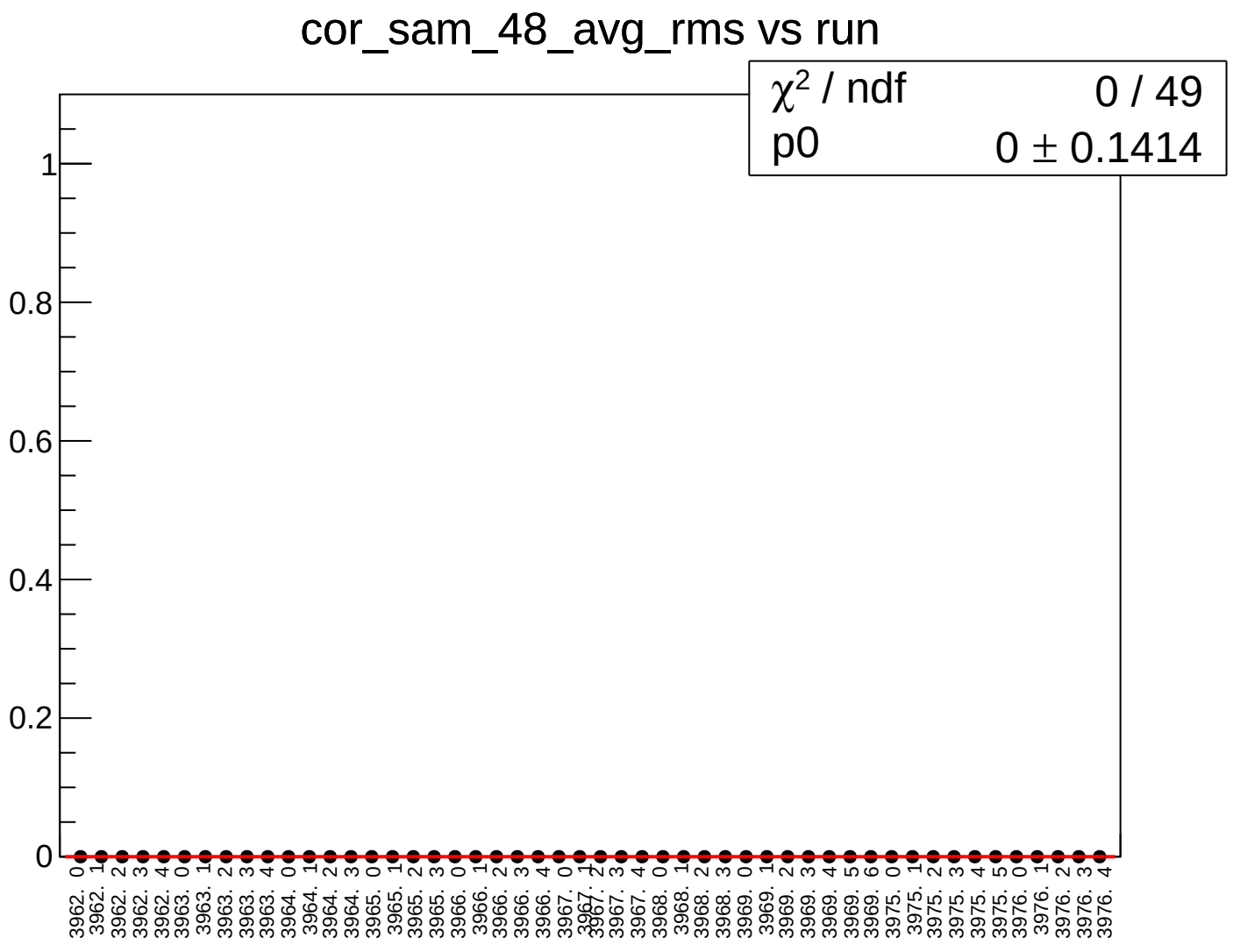
2
4
6
8


cor_sam_48_avg_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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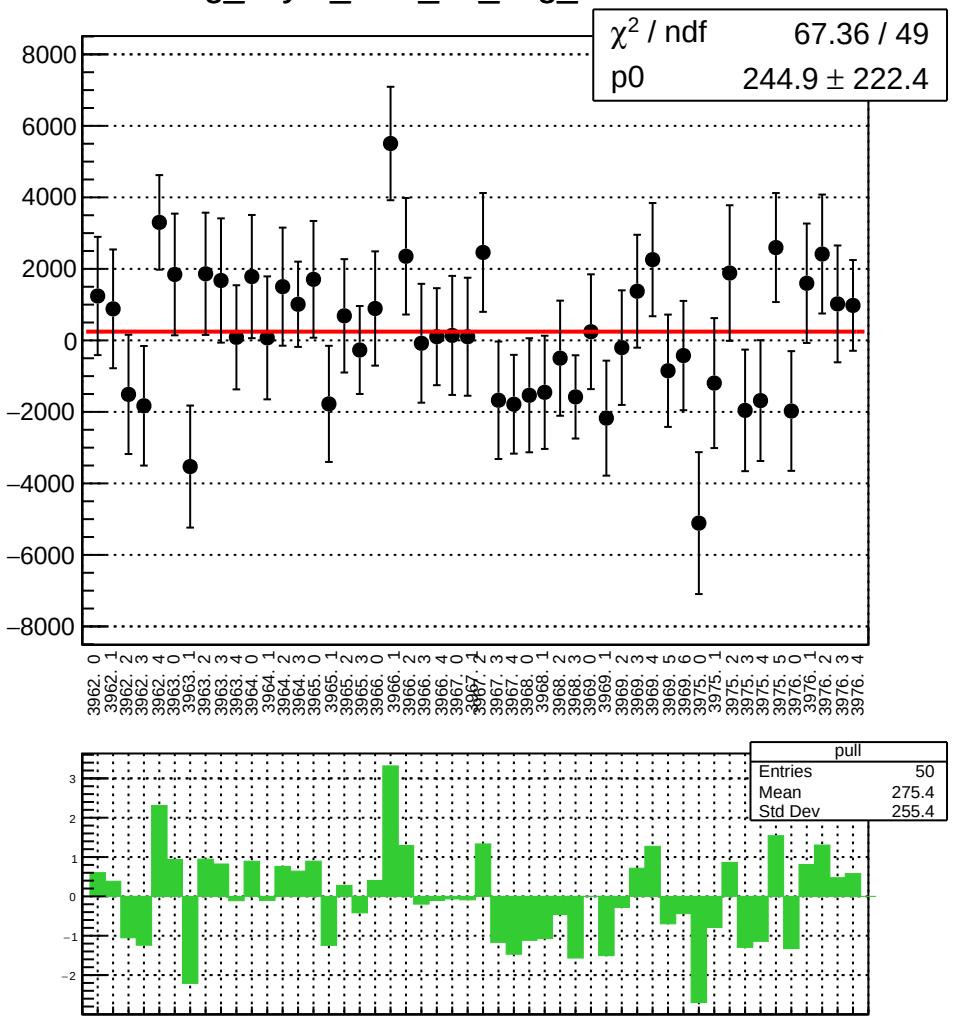
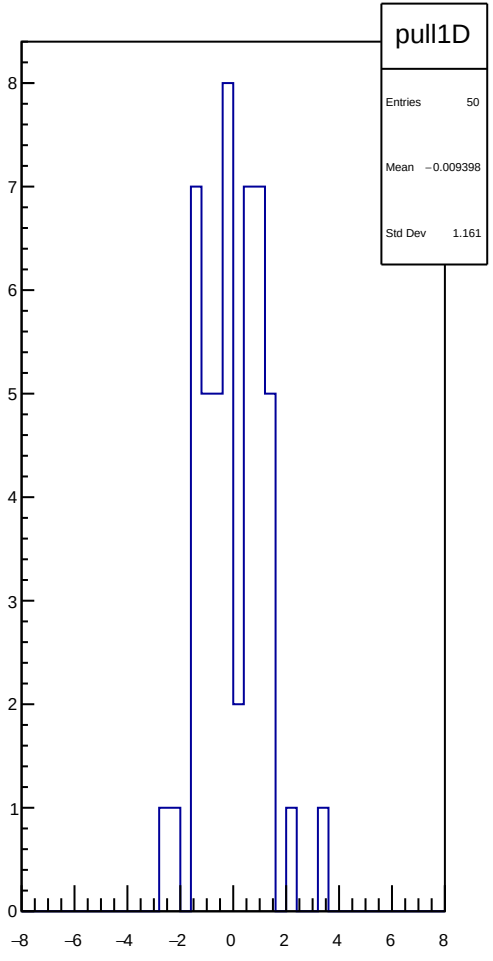
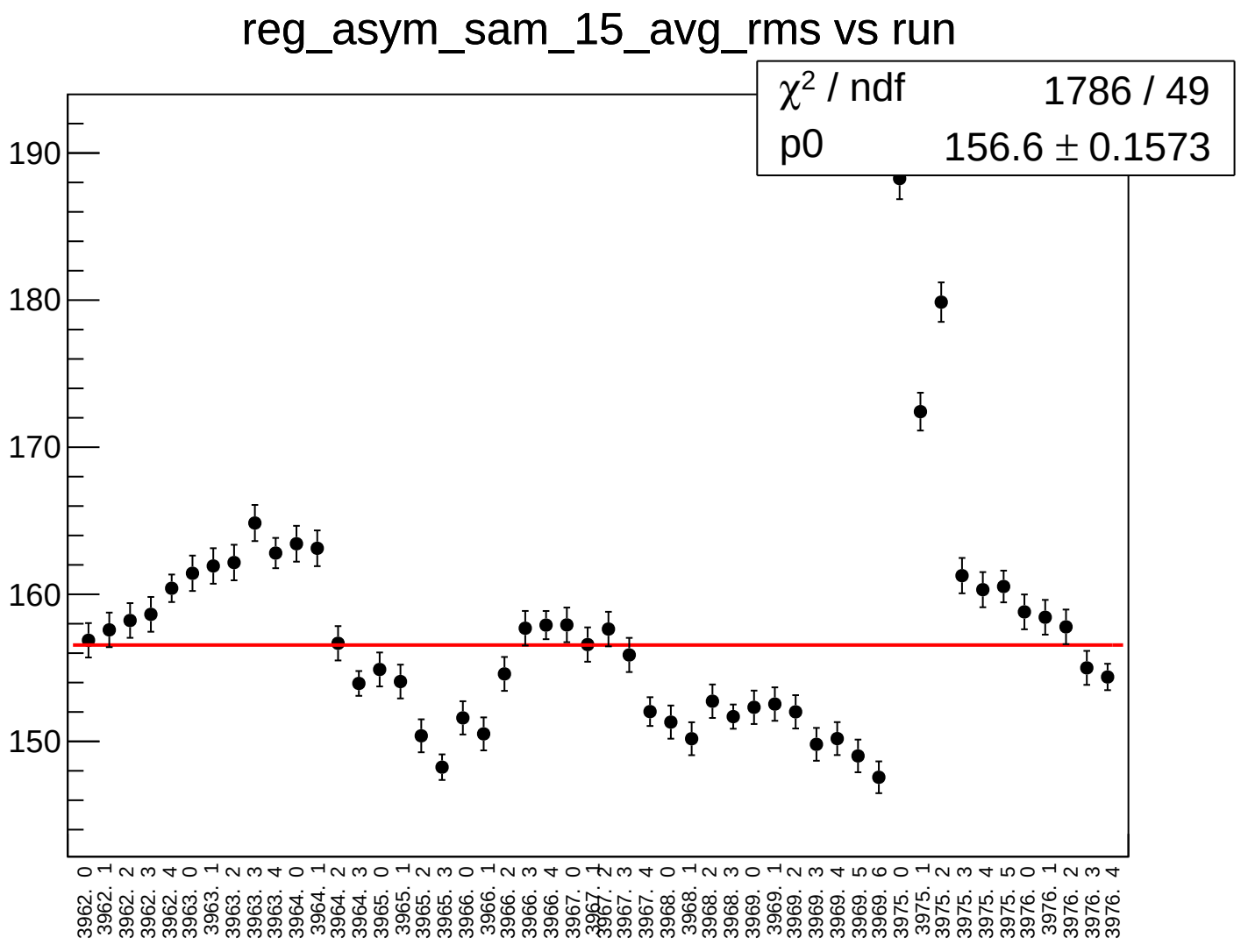
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_sam_15_avg_mean vs run
χ² / ndf 67.36 / 49
p0 244.9 ± 222.4
pull
Entries 50
Mean 275.4
Std Dev 255.4


pull1D
Entries 50
Mean −0.009398
Std Dev 1.161


reg_asym_sam_15_avg_rms vs run
χ² / ndf 1786 / 49
p0 156.6 ± 0.1573
190
180
170
160
150
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
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3963. 2
3963. 3
3963. 4
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3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
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3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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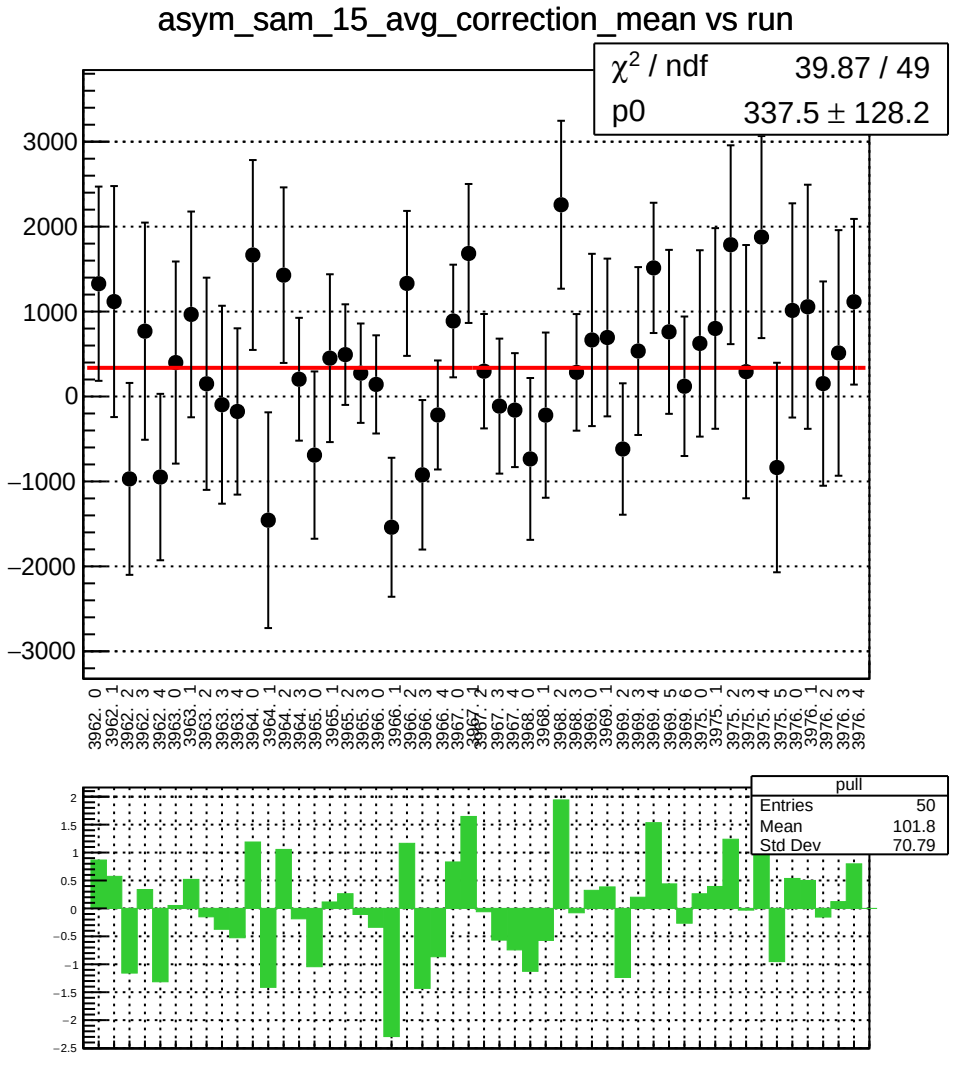
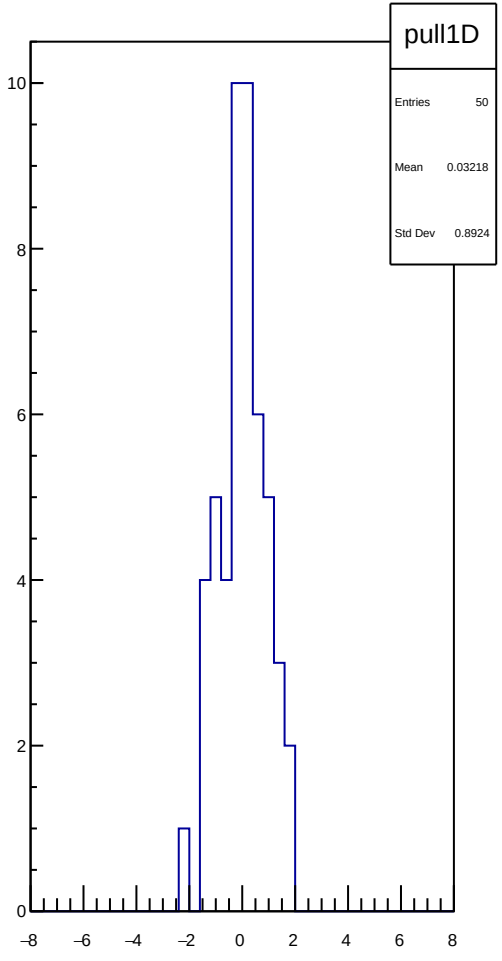
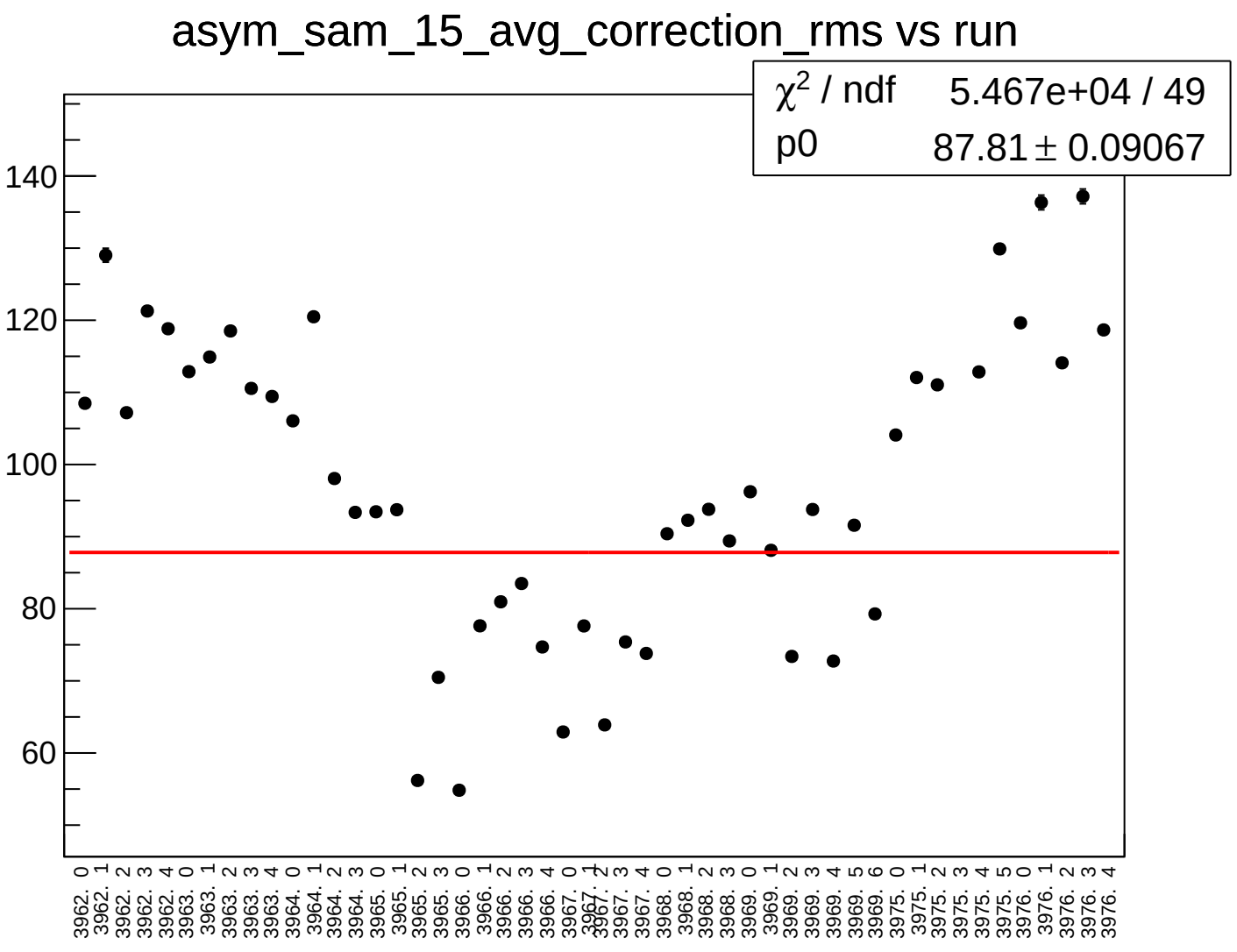
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_sam_15_avg_correction_mean vs run
χ² / ndf 39.87 / 49
p0 337.5 ± 128.2
pull
Entries 50
Mean 101.8
Std Dev 70.79


pull1D
Entries 50
Mean 0.03218
Std Dev 0.8924


asym_sam_15_avg_correction_rms vs run
χ² / ndf 5.467e+04 / 49
p0 87.81 ± 0.09067
140
120
100
80
60
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
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3963. 3
3963. 4
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3965. 3
3966. 0
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3966. 3
3966. 4
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3968. 2
3968. 3
3969. 0
3969. 1
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3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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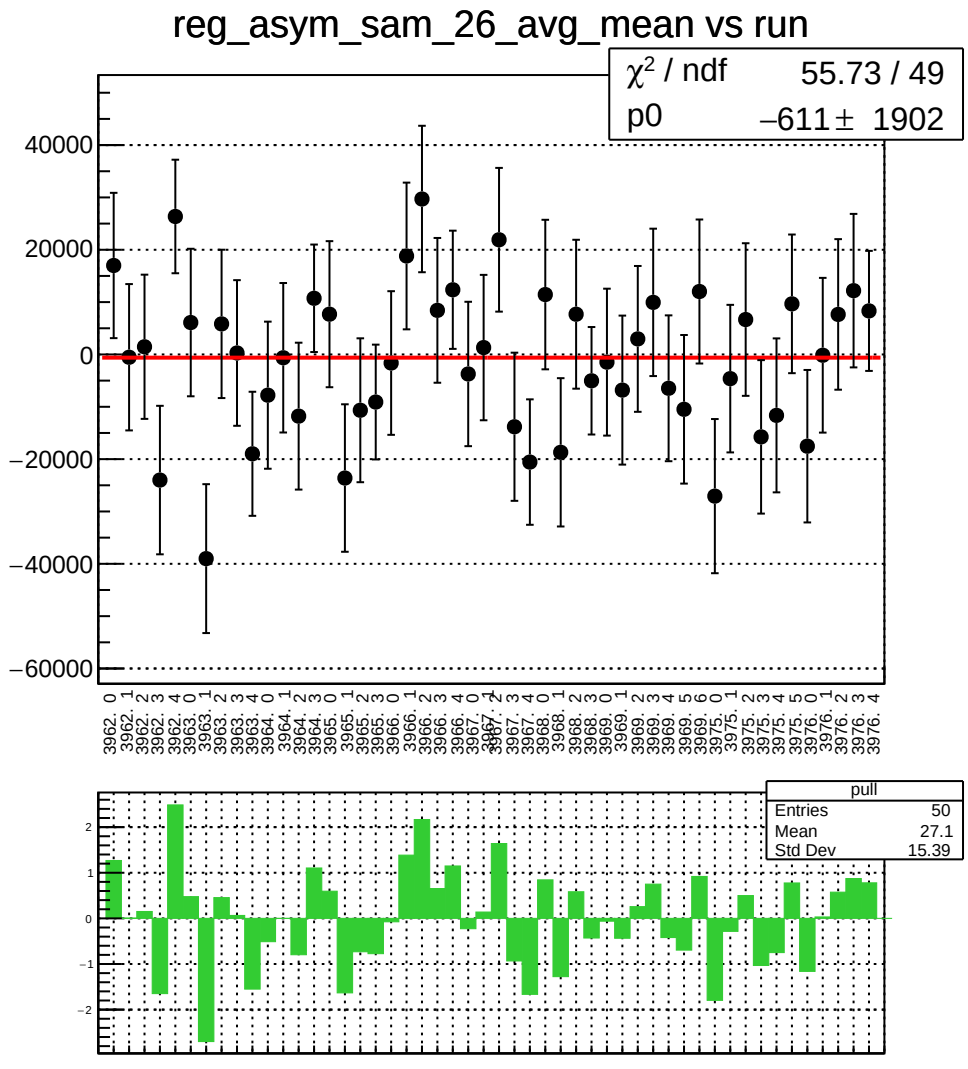
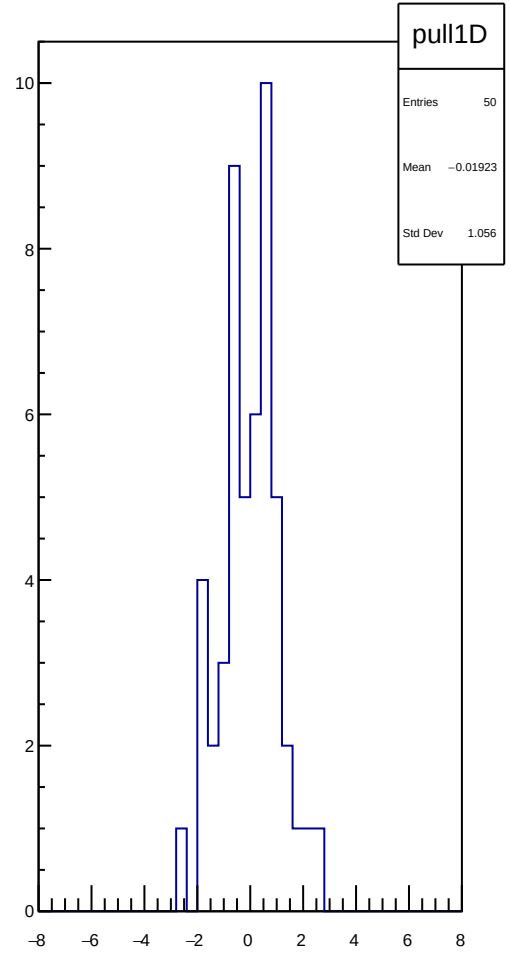
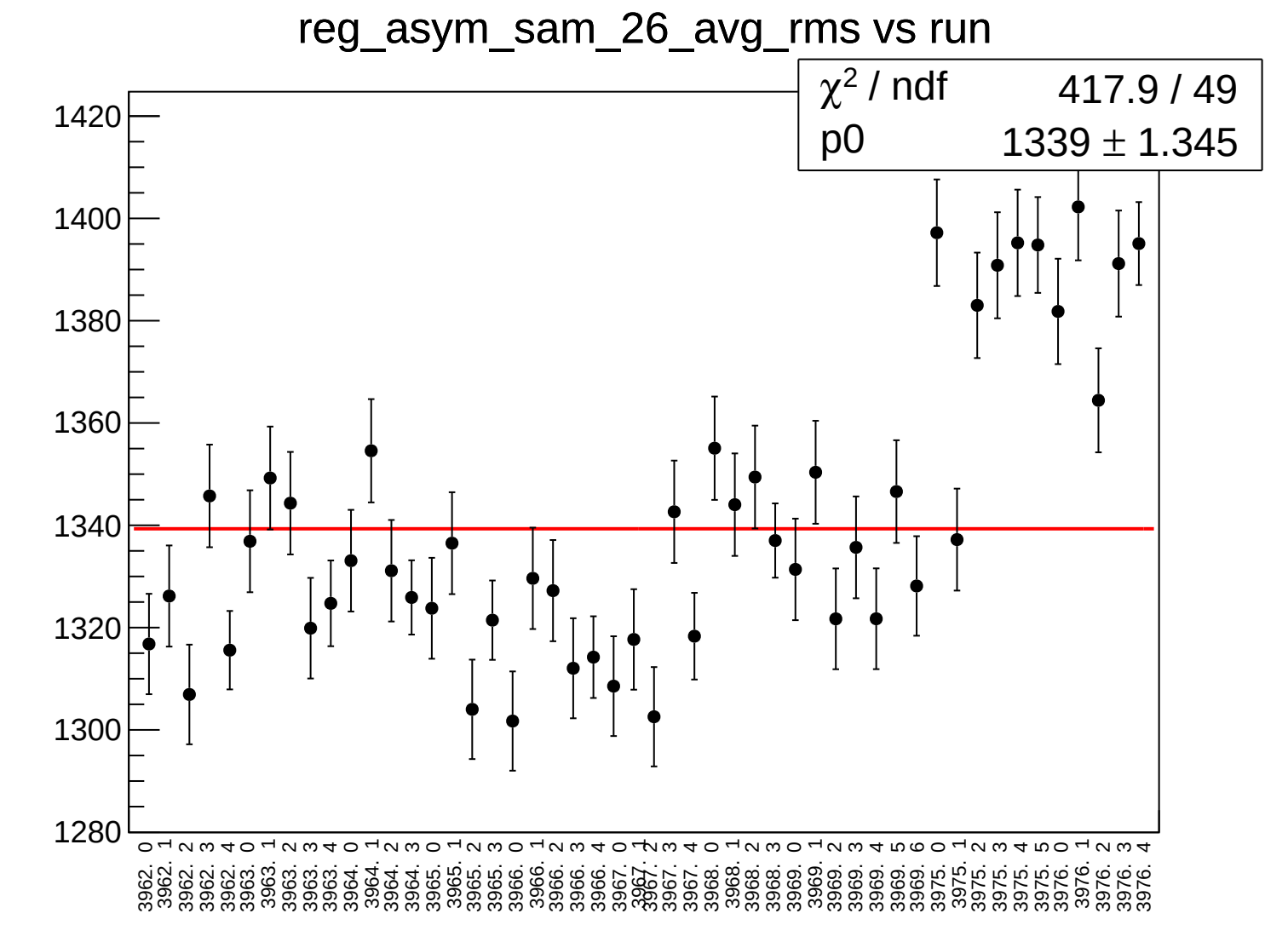
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_sam_26_avg_mean vs run
χ² / ndf 55.73 / 49
p0 −611 ± 1902
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean 27.1
Std Dev 15.39
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.01923
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_avg_rms vs run
χ² / ndf 417.9 / 49
p0 1339 ± 1.345
1420
1400
1380
1360
1340
1320
1300
1280
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
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3963. 2
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3963. 4
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3965. 2
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3966. 4
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3968. 3
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3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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3975. 5
3976. 0
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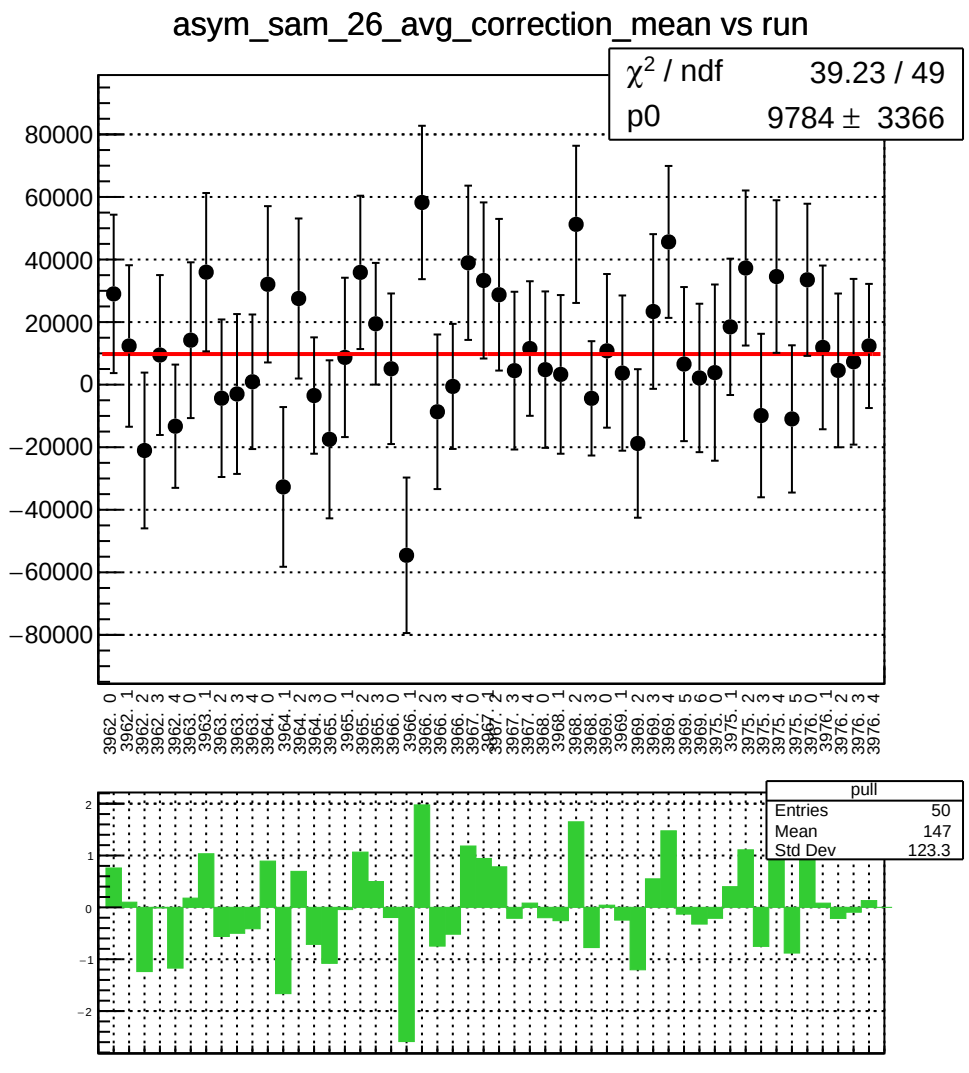
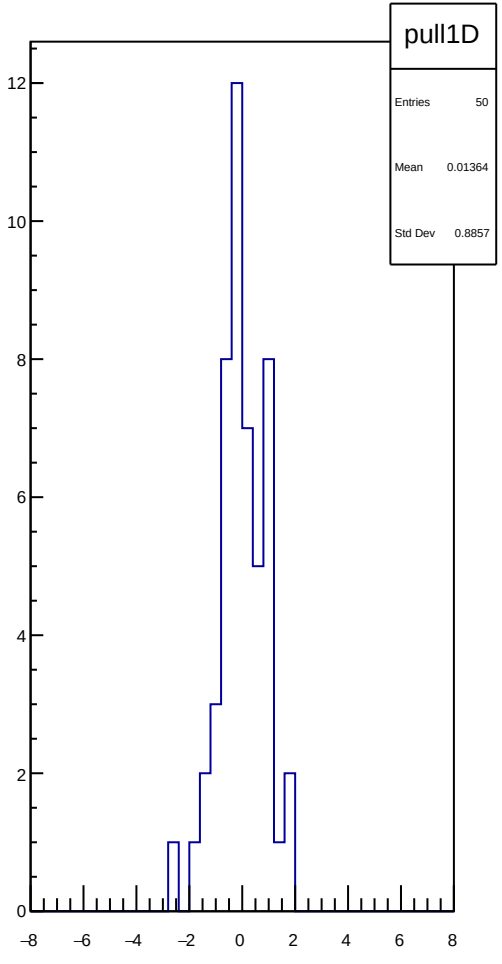
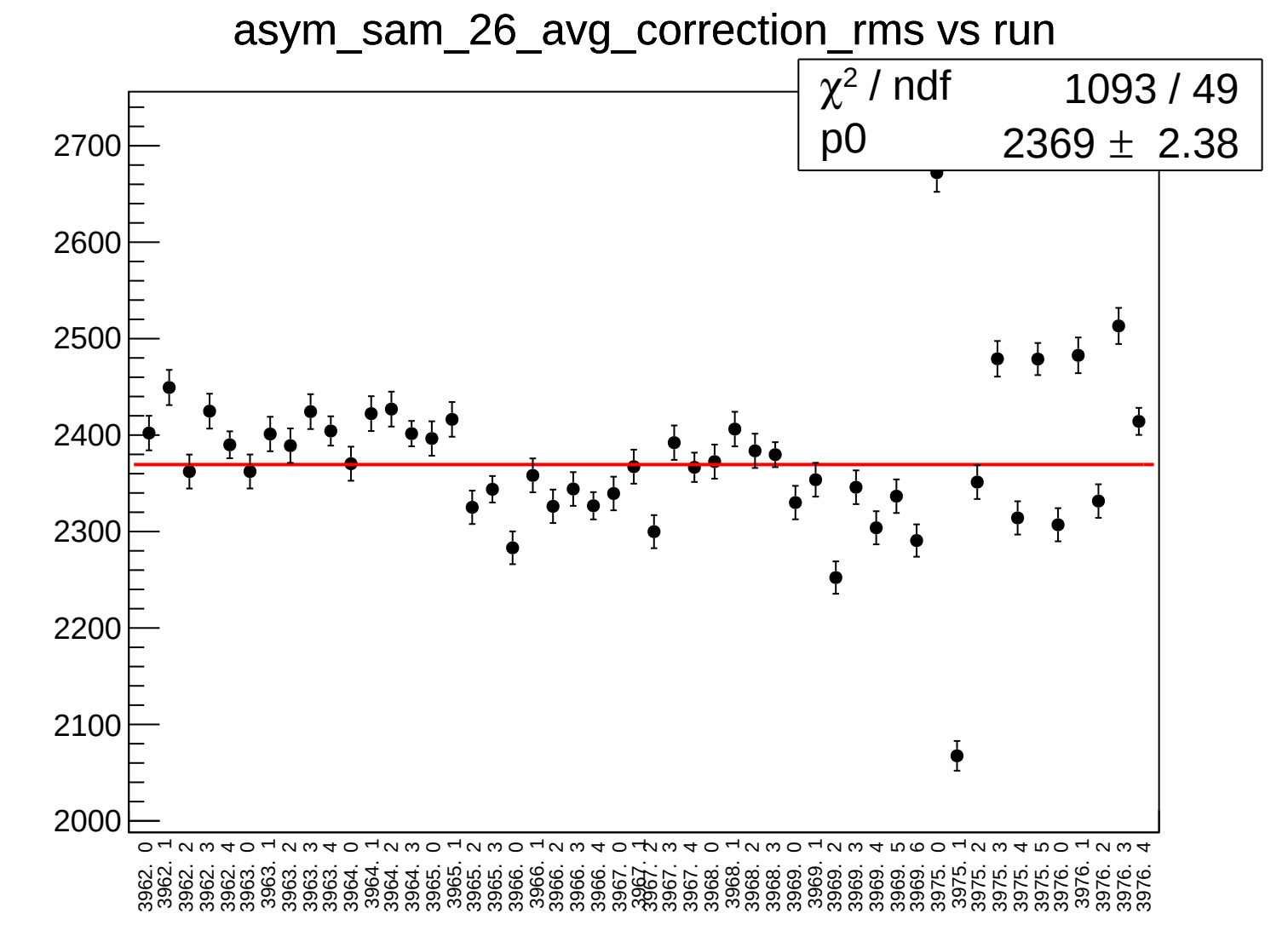
3976. 3
3976. 4


asym_sam_26_avg_correction_mean vs run
χ² / ndf 39.23 / 49
p0 9784 ± 3366
pull
Entries 50
Mean 147
Std Dev 123.3


pull1D
Entries 50
Mean 0.01364
Std Dev 0.8857


asym_sam_26_avg_correction_rms vs run
χ² / ndf 1093 / 49
p0 2369 ± 2.38
2700
2600
2500
2400
2300
2200
2100
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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3965. 2
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3968. 0
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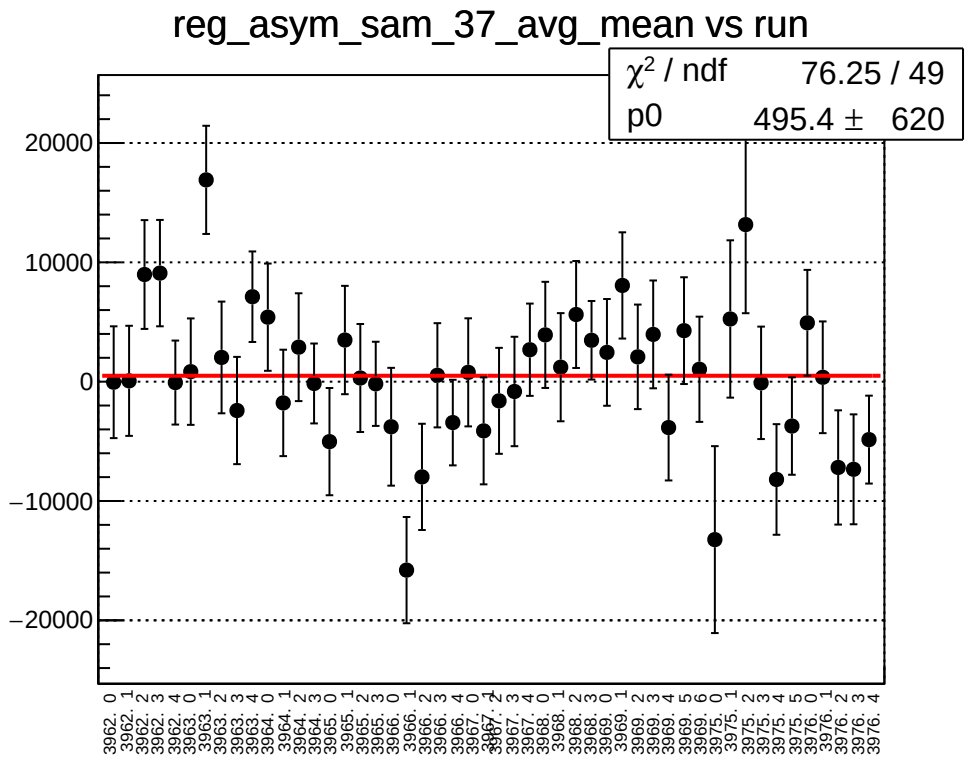
3976. 4


reg_asym_sam_37_avg_mean vs run
χ² / ndf 76.25 / 49
p0 495.4 ± 620
20000
10000
0
−10000
−20000
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3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
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3969. 4
3969. 5
3969. 6
3975. 0
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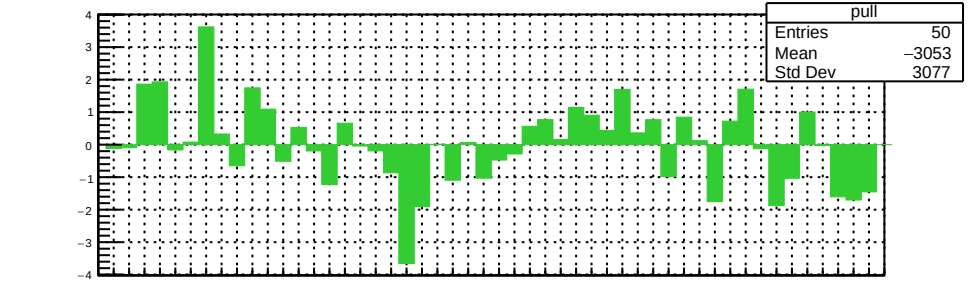
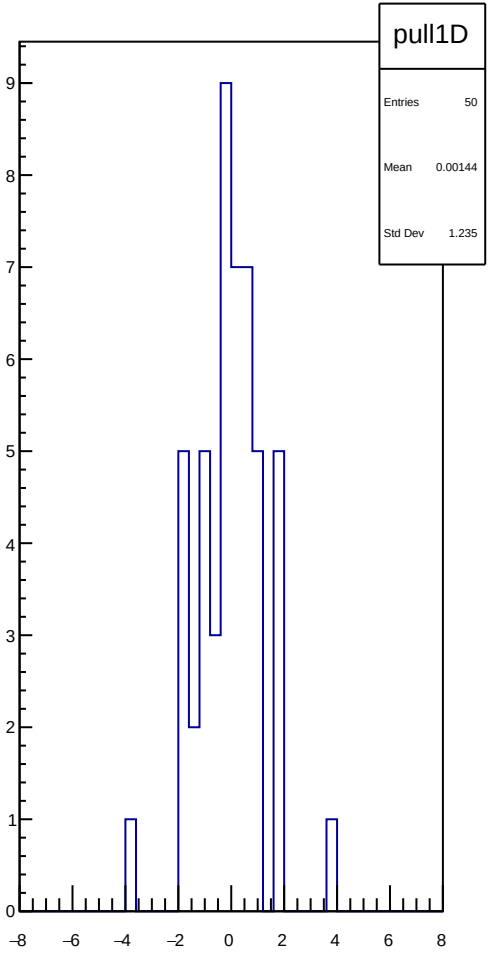
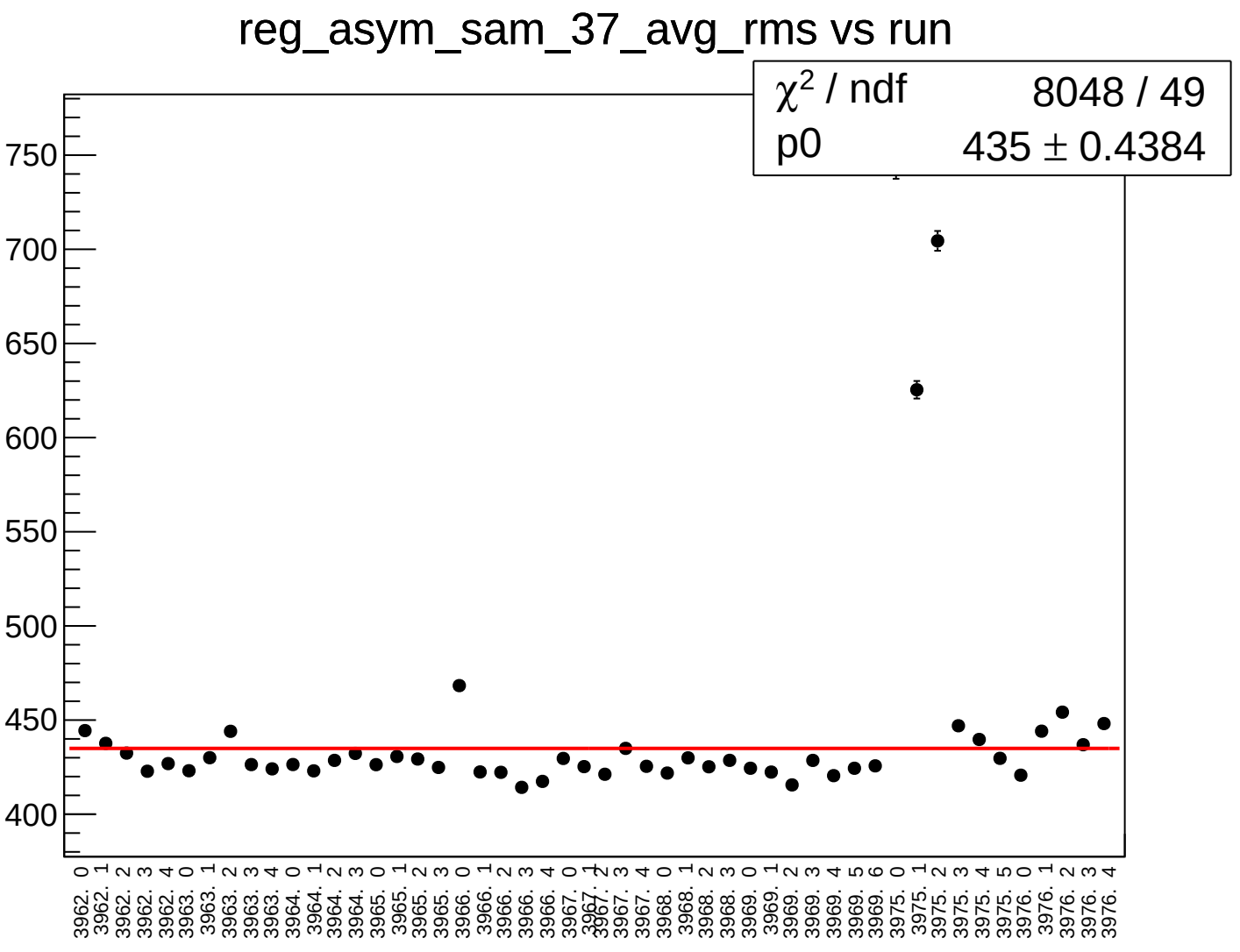
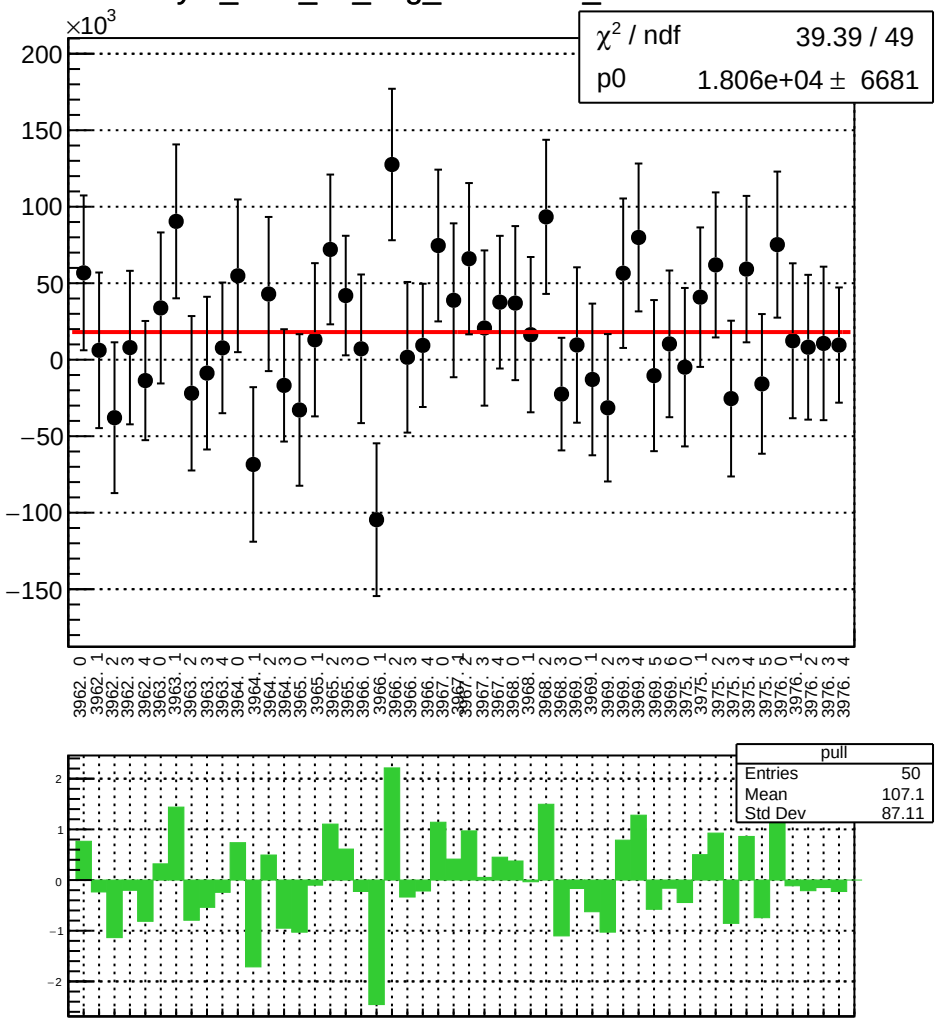
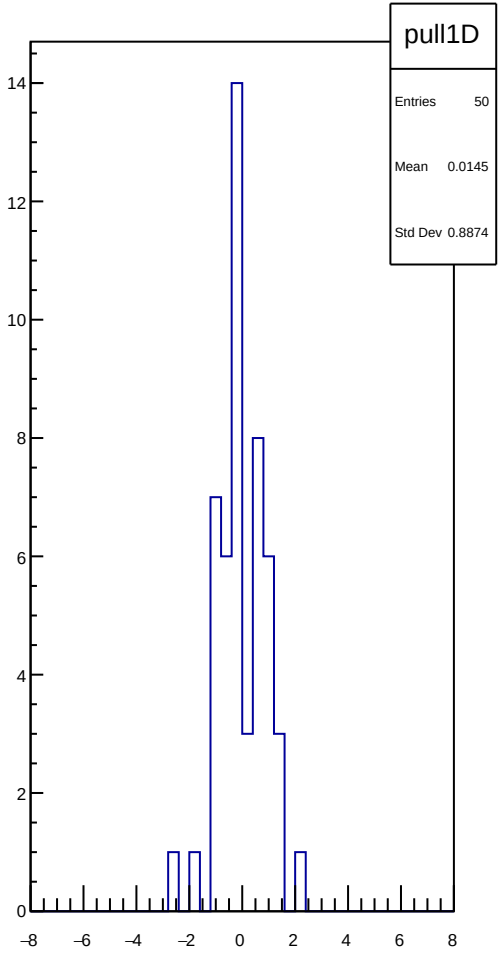
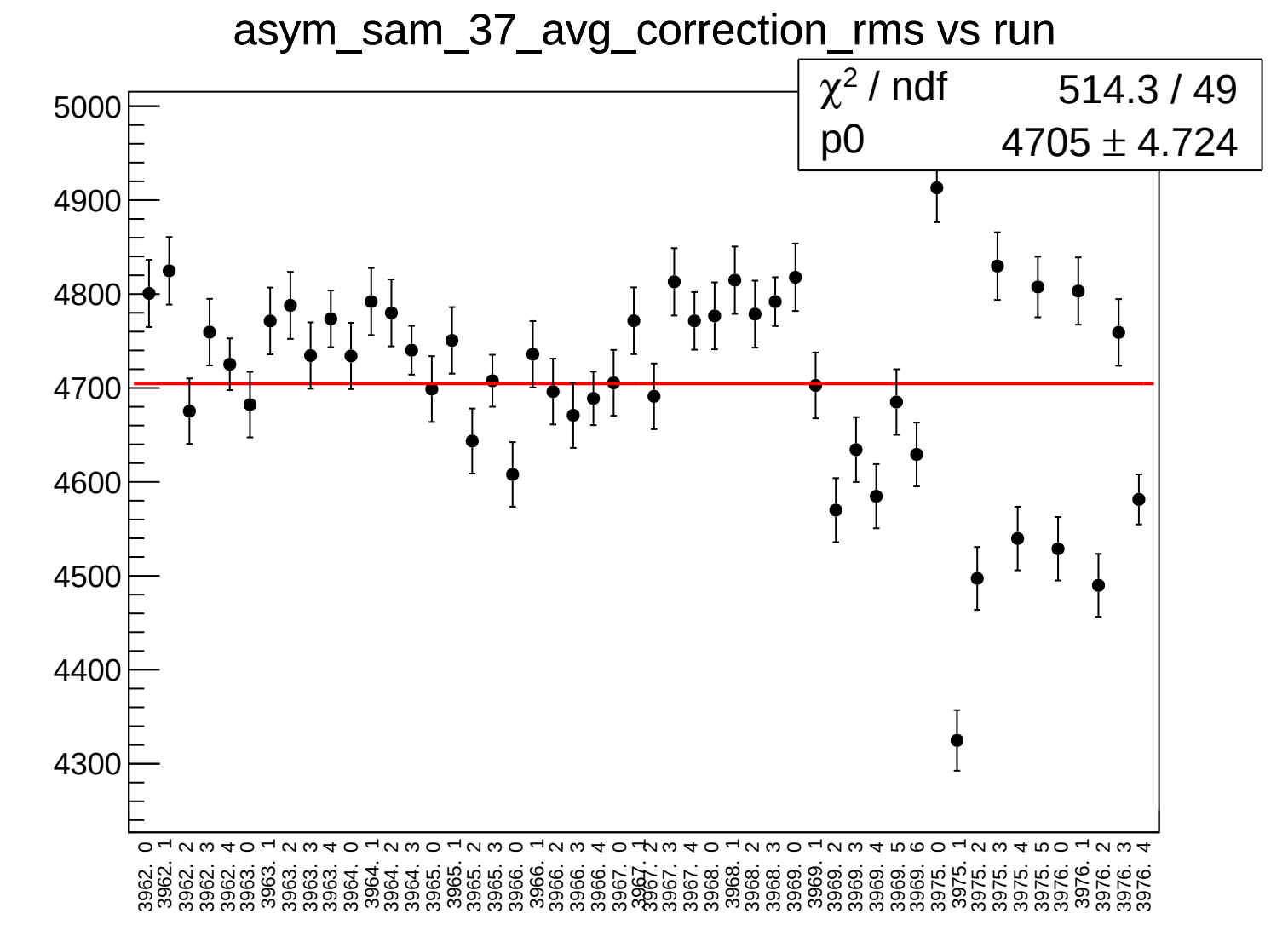

pull
Entries 50
Mean −3053
Std Dev 3077
4
3
2
1
0
−1
−2
−3
−4

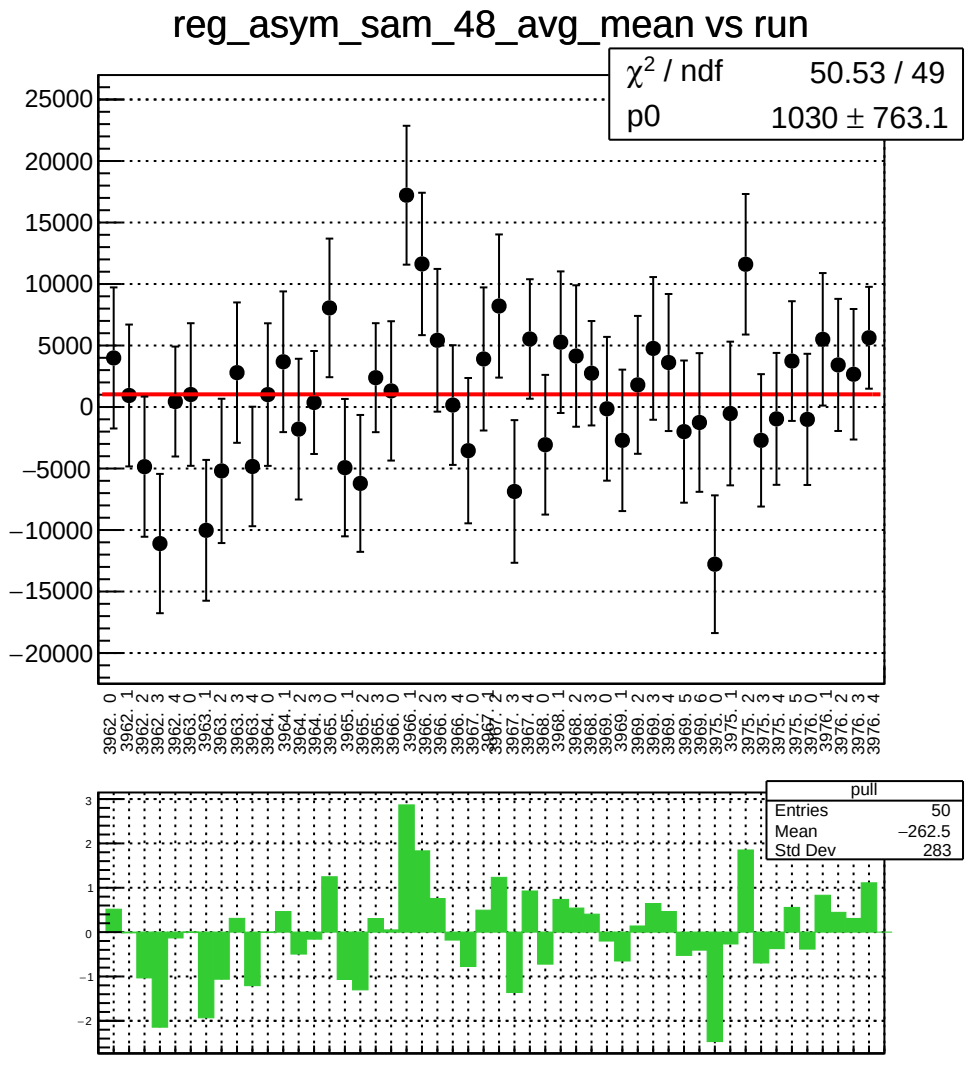

pull1D
Entries 50
Mean 0.00144
Std Dev 1.235
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

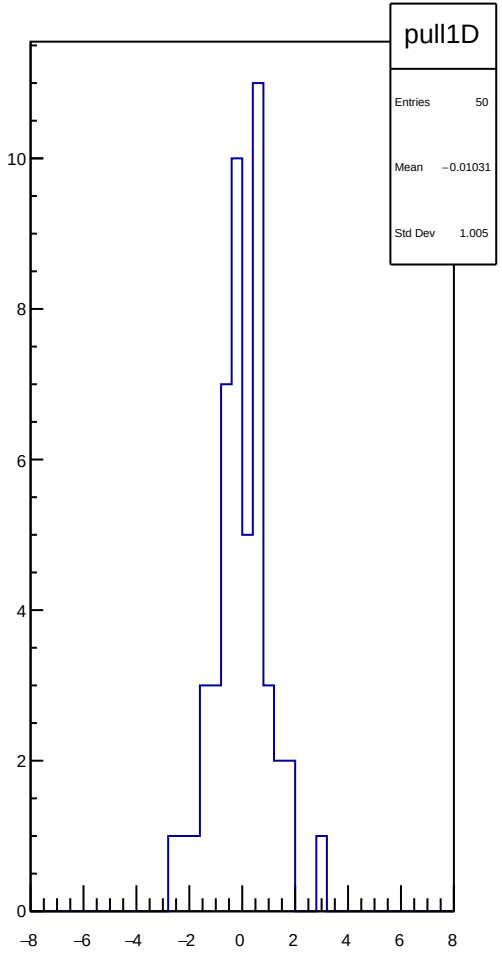

reg_asym_sam_37_avg_rms vs run
χ² / ndf 8048 / 49
p0 435 ± 0.4384
750
700
650
600
550
500
450
400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

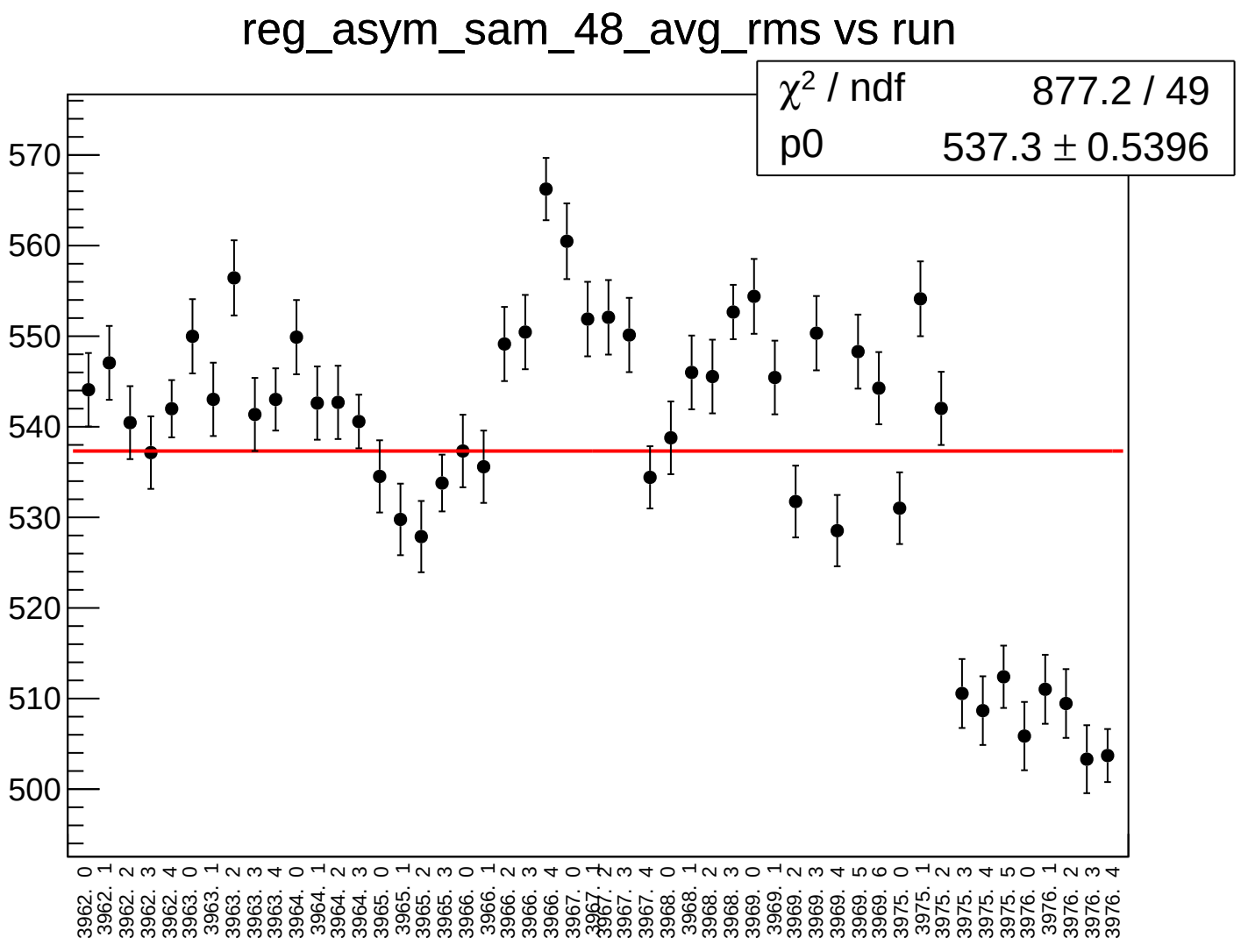

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 39.39 / 49
p0 1.806e+04 ± 6681
pull
Entries 50
Mean 107.1
Std Dev 87.11

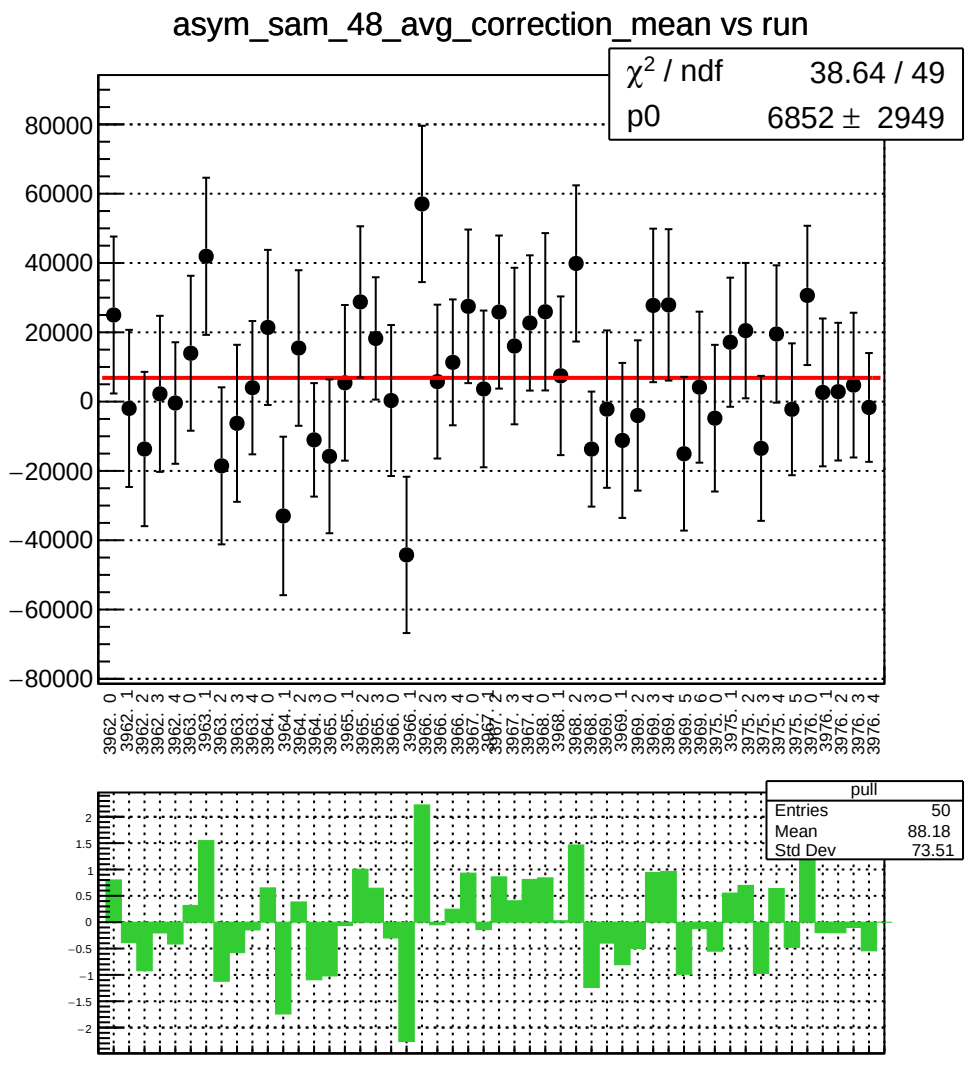

pull1D
Entries 50
Mean 0.0145
Std Dev 0.8874

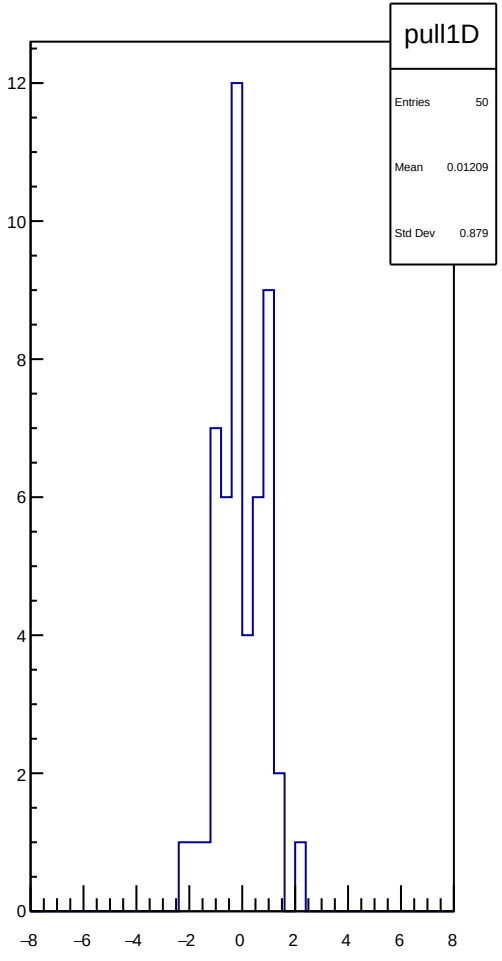

asym_sam_37_avg_correction_rms vs run
χ² / ndf 514.3 / 49
p0 4705 ± 4.724
5000
4900
4800
4700
4600
4500
4400
4300
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

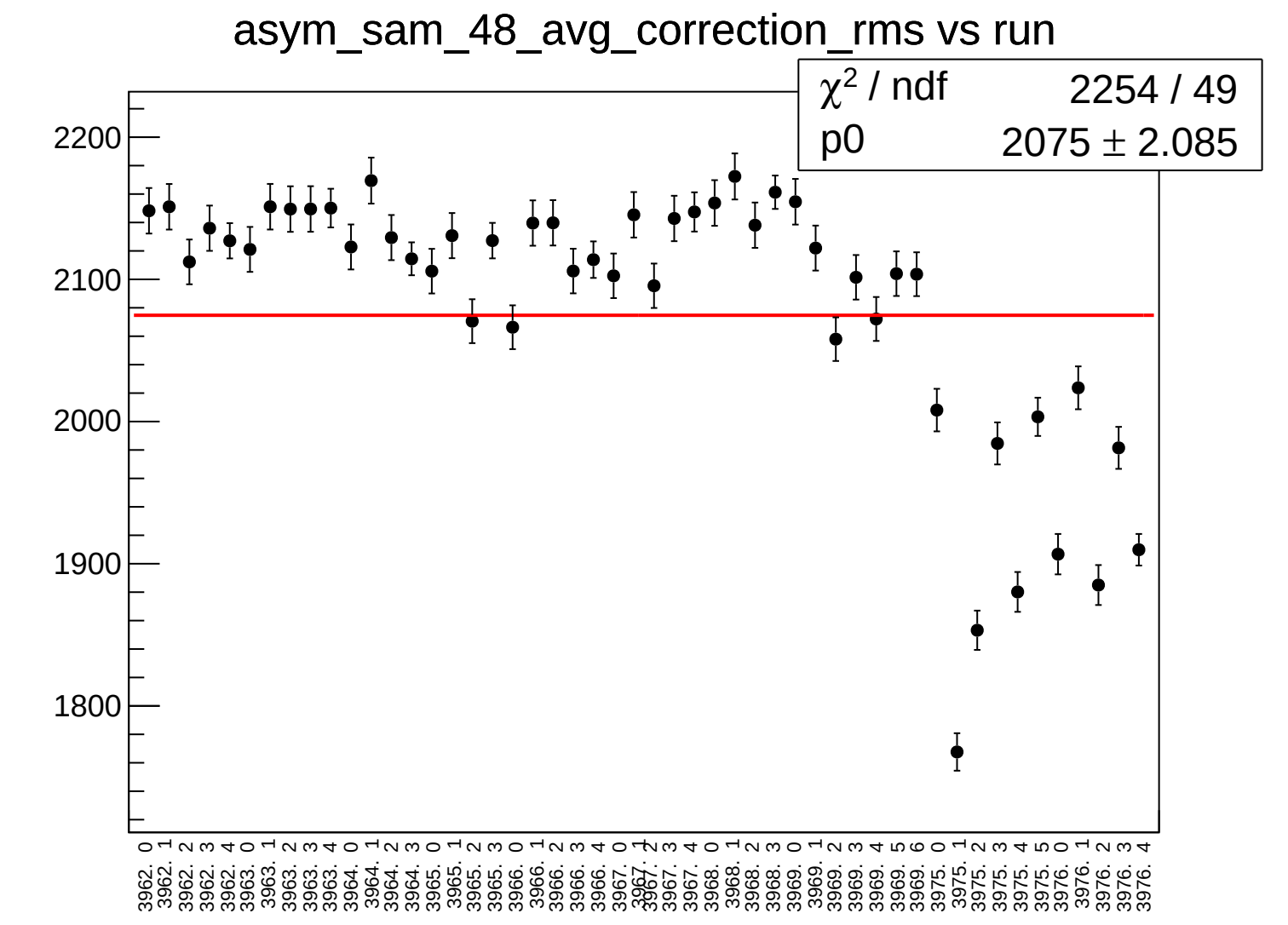

reg_asym_sam_48_avg_mean vs run
χ² / ndf 50.53 / 49
p0 1030 ± 763.1
pull
Entries 50
Mean −262.5
Std Dev 283

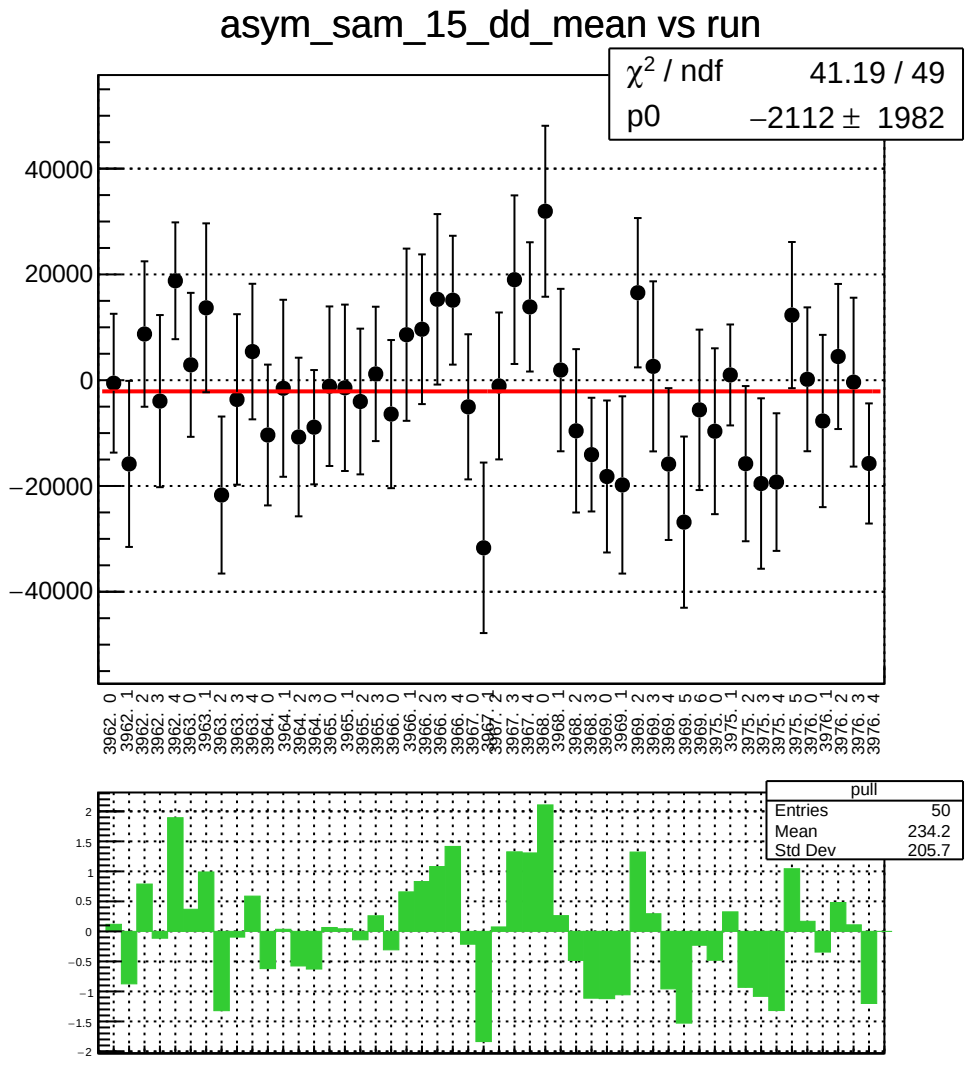

pull1D
Entries 50
Mean −0.01031
Std Dev 1.005

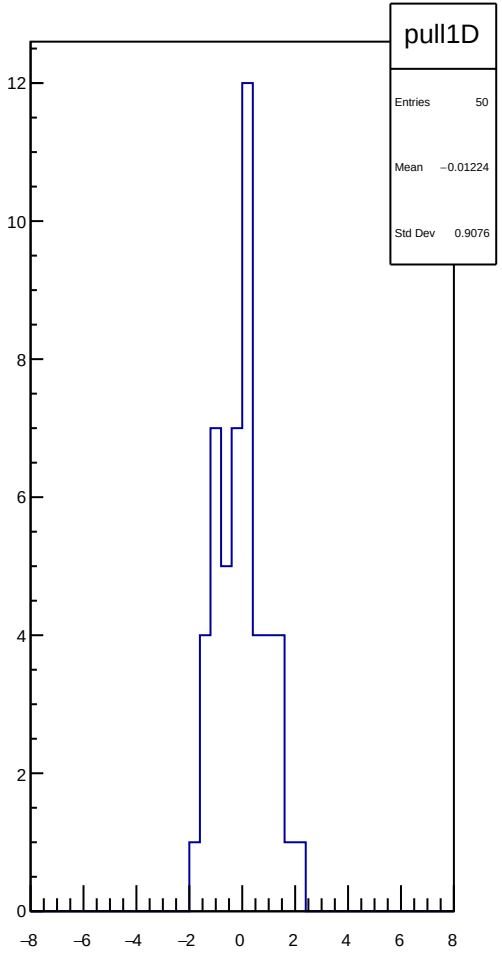

reg_asym_sam_48_avg_rms vs run
χ² / ndf 877.2 / 49
p0 537.3 ± 0.5396
570
560
550
540
530
520
510
500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

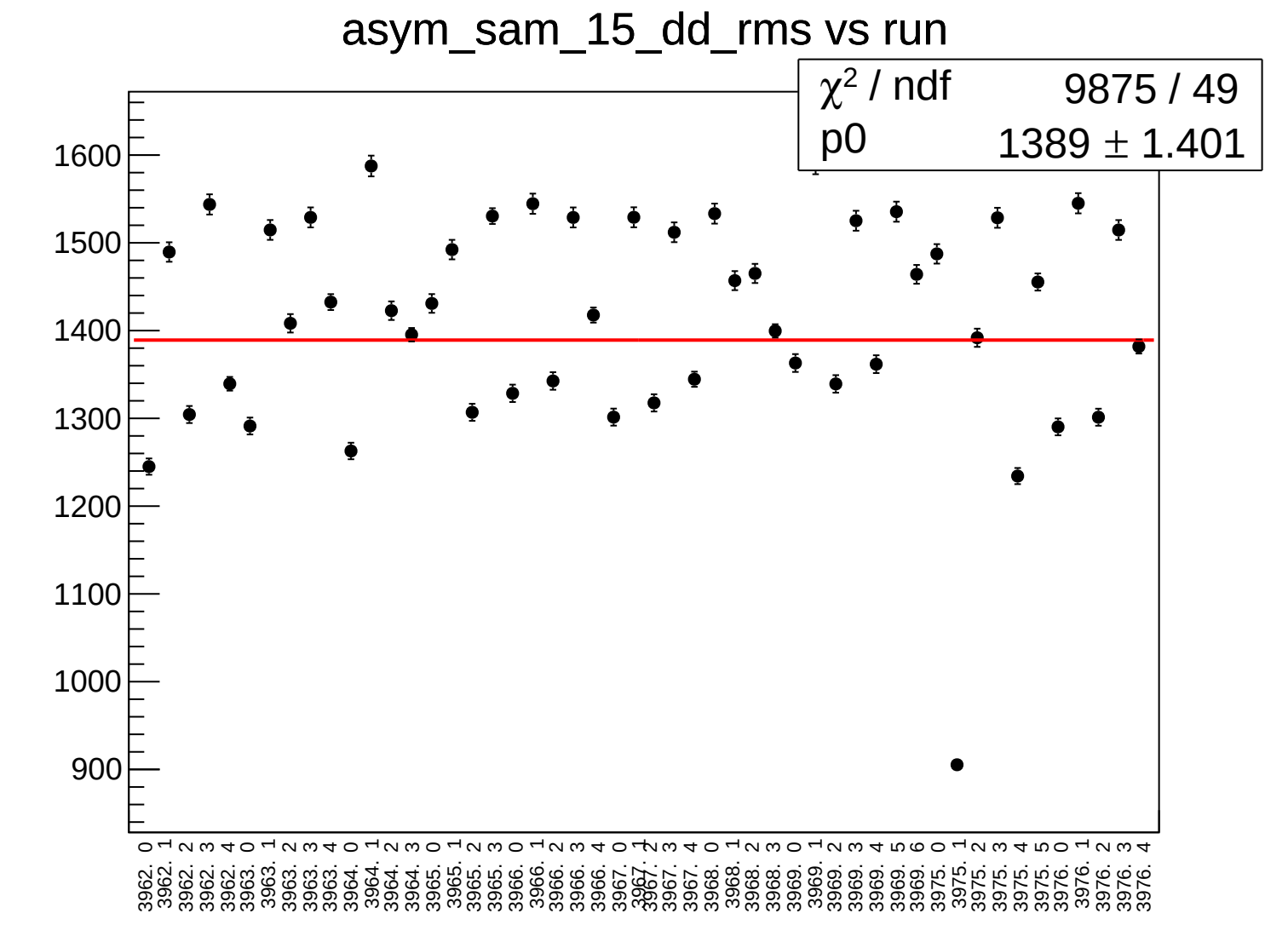

asym_sam_48_avg_correction_mean vs run
χ² / ndf 38.64 / 49
p0 6852 ± 2949
pull
Entries 50
Mean 88.18
Std Dev 73.51

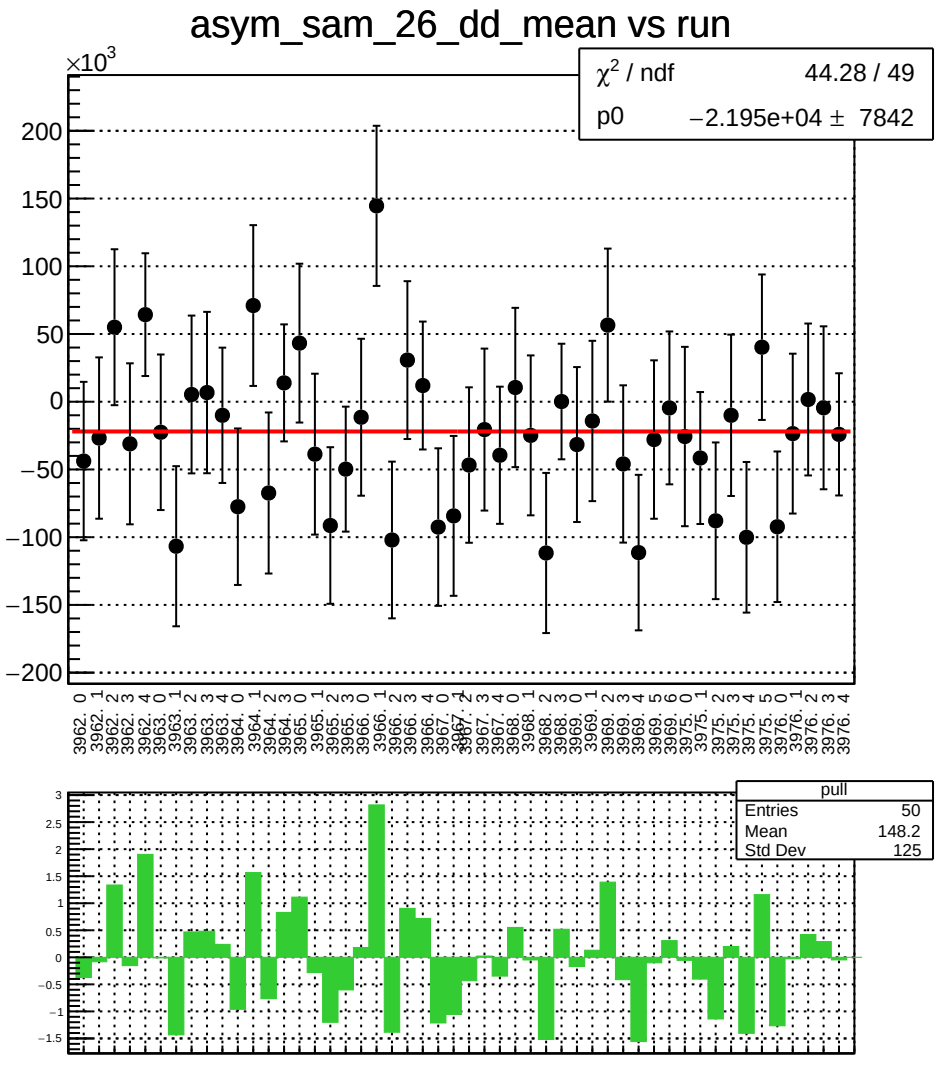

pull1D
Entries 50
Mean 0.01209
Std Dev 0.879

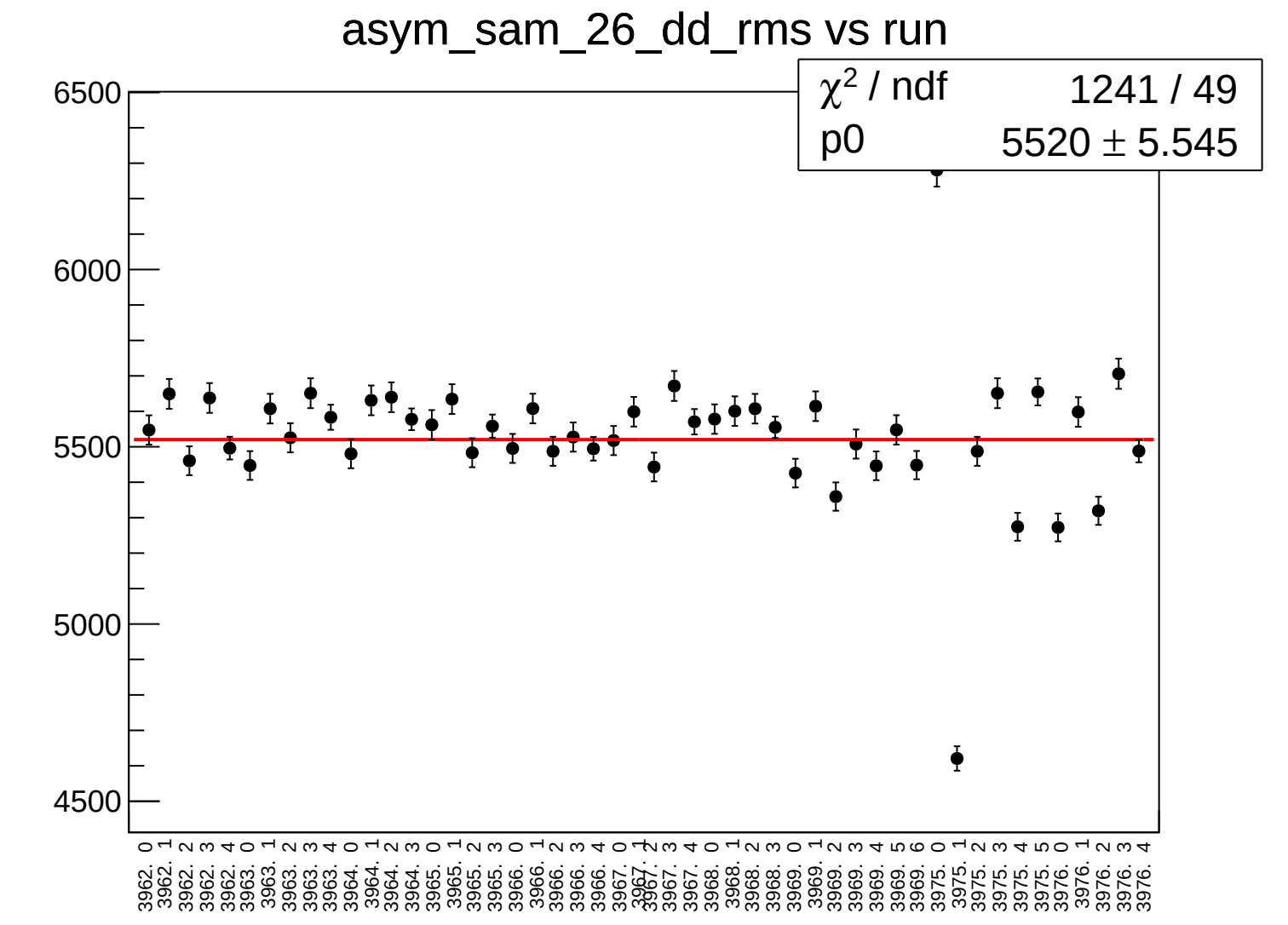

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2254 / 49
p0 2075 ± 2.085
2200
2100
2000
1900
1800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

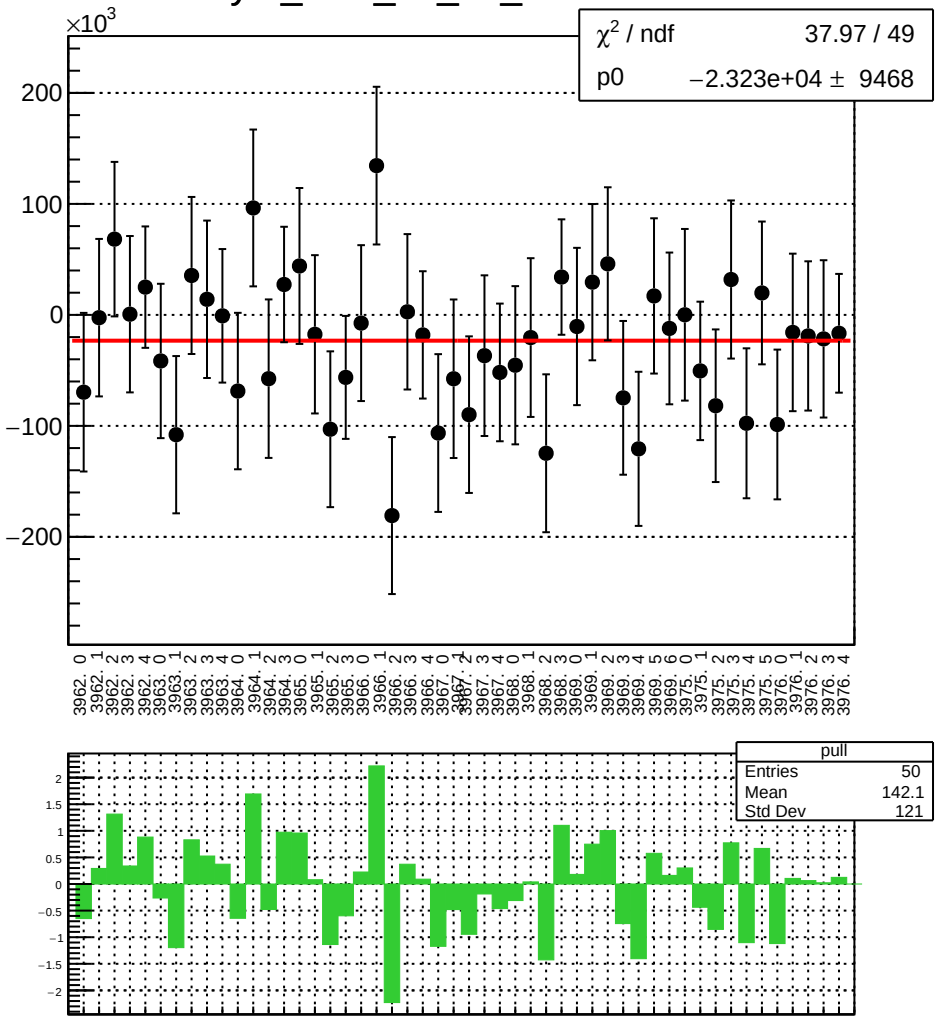

asym_sam_15_dd_mean vs run
χ² / ndf 41.19 / 49
p0 −2112 ± 1982
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 234.2
Std Dev 205.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

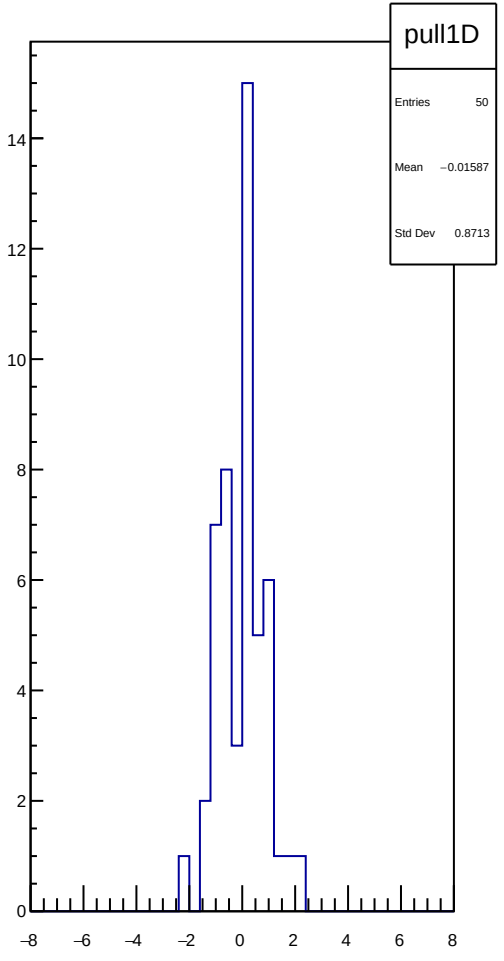

pull1D
Entries 50
Mean −0.01224
Std Dev 0.9076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

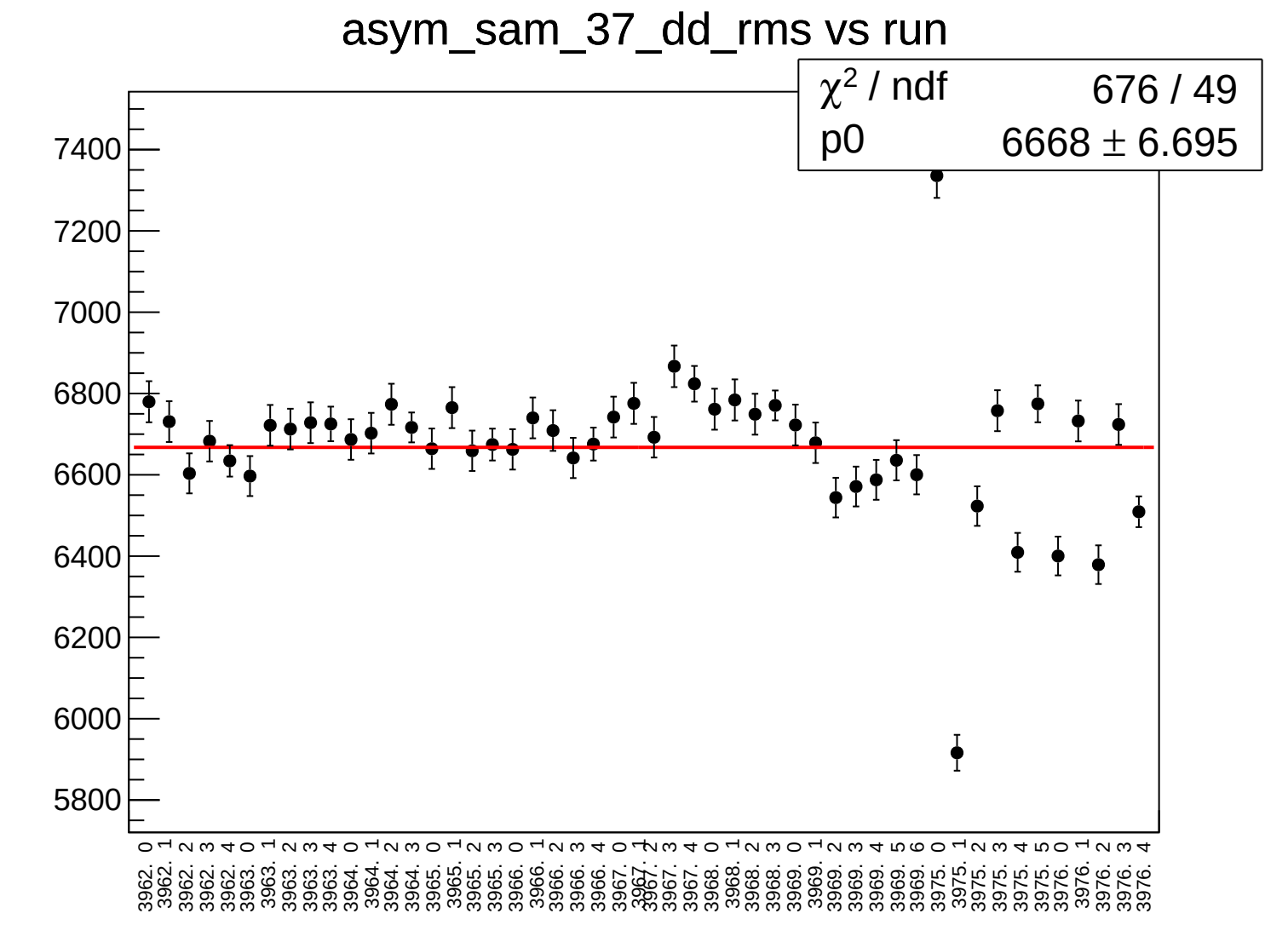

asym_sam_15_dd_rms vs run
χ² / ndf 9875 / 49
p0 1389 ± 1.401
1600
1500
1400
1300
1200
1100
1000
900
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 44.28 / 49
p0 −2.195e+04 ± 7842
200
150
100
50
0
−50
−100
−150
−200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 148.2
Std Dev 125
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.01789
Std Dev 0.9409
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_rms vs run
χ² / ndf 1241 / 49
p0 5520 ± 5.545
6500
6000
5500
5000
4500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 37.97 / 49
p0 −2.323e+04 ± 9468
pull
Entries 50
Mean 142.1
Std Dev 121


pull1D
Entries 50
Mean −0.01587
Std Dev 0.8713


asym_sam_37_dd_rms vs run
χ² / ndf 676 / 49
p0 6668 ± 6.695
7400
7200
7000
6800
6600
6400
6200
6000
5800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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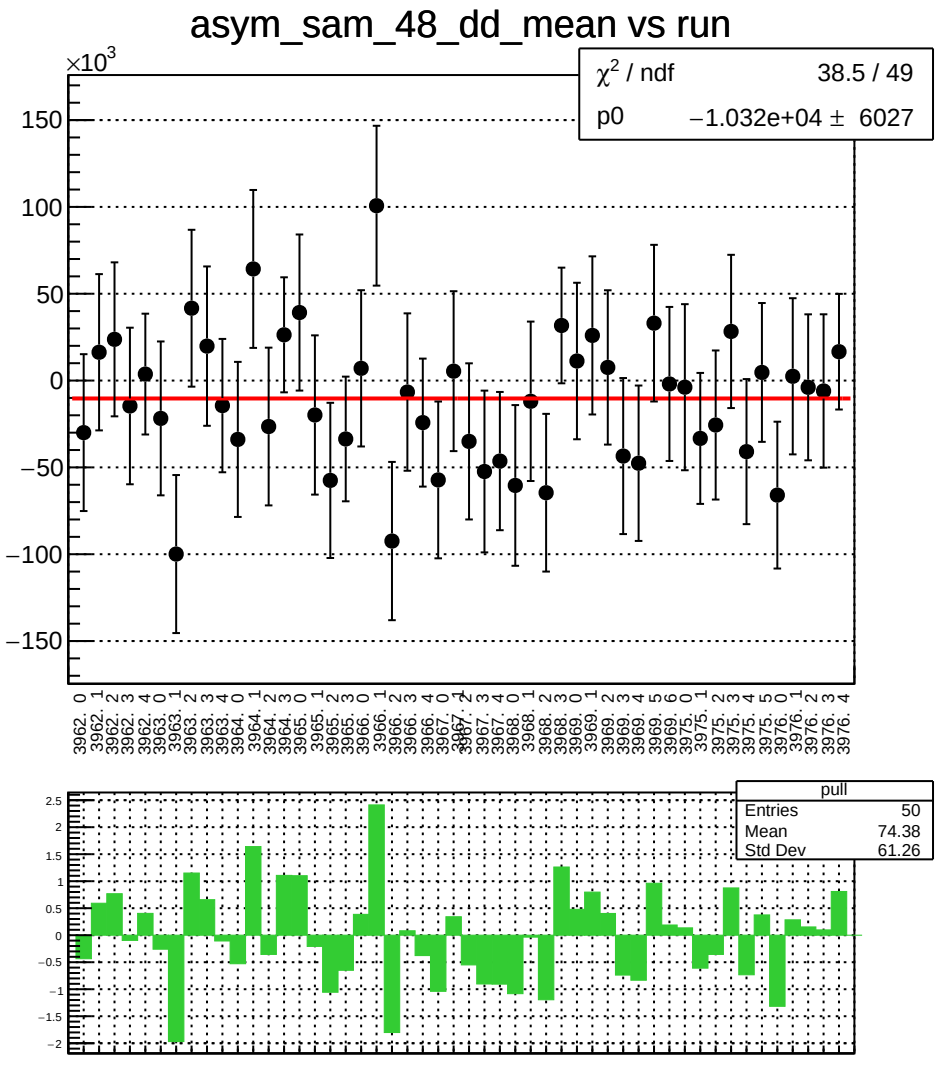
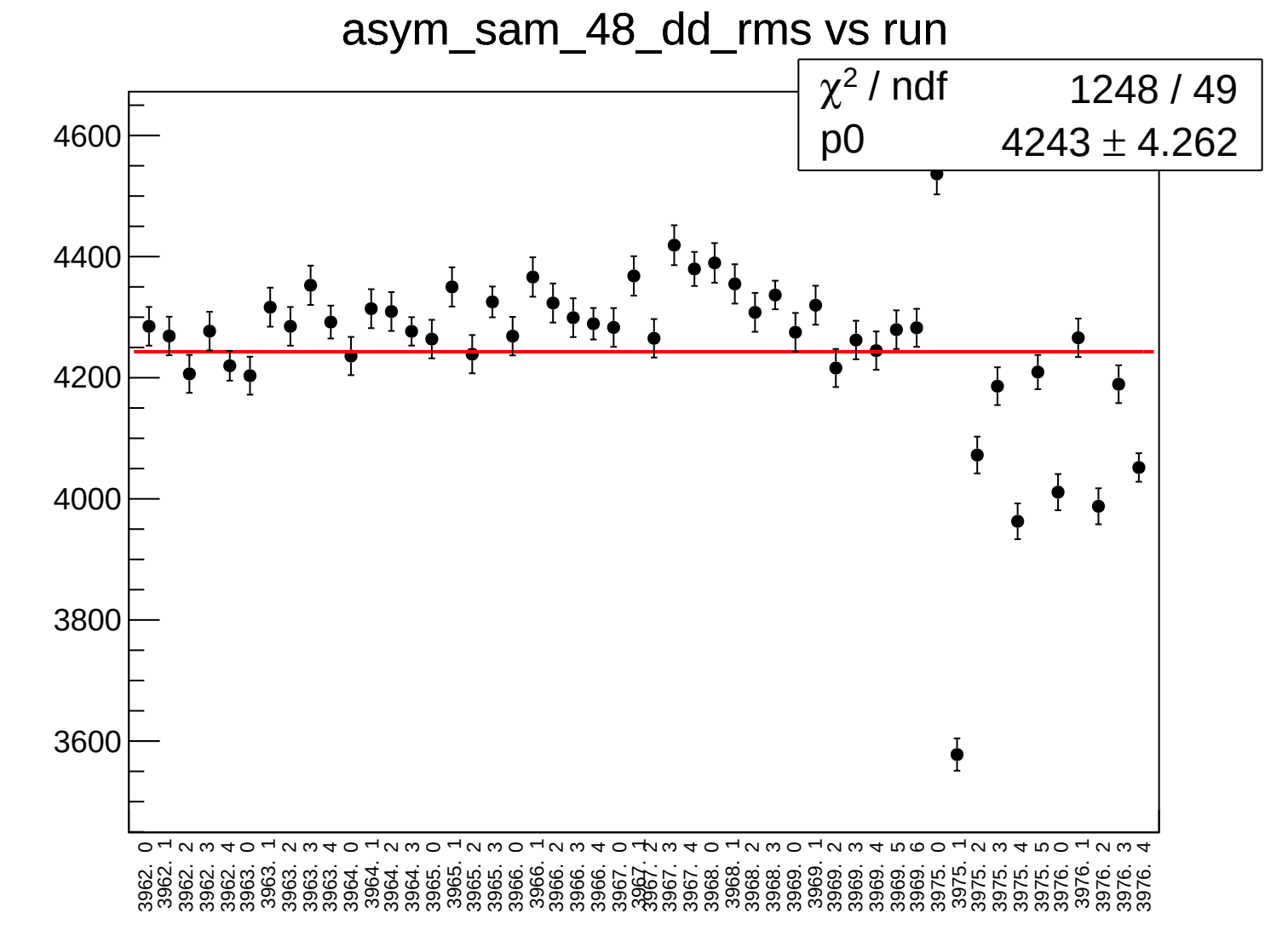
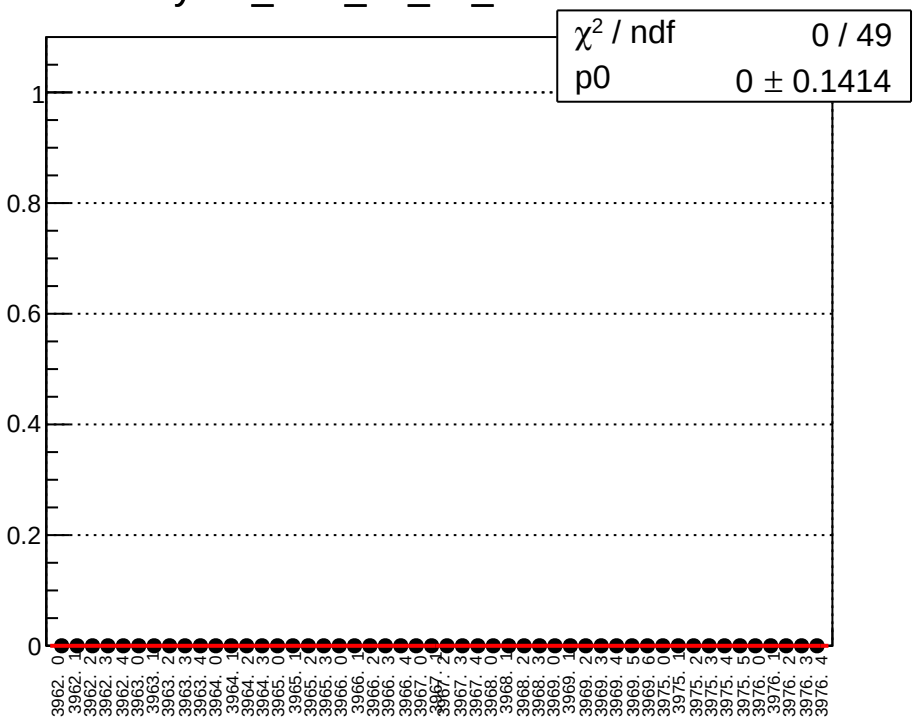
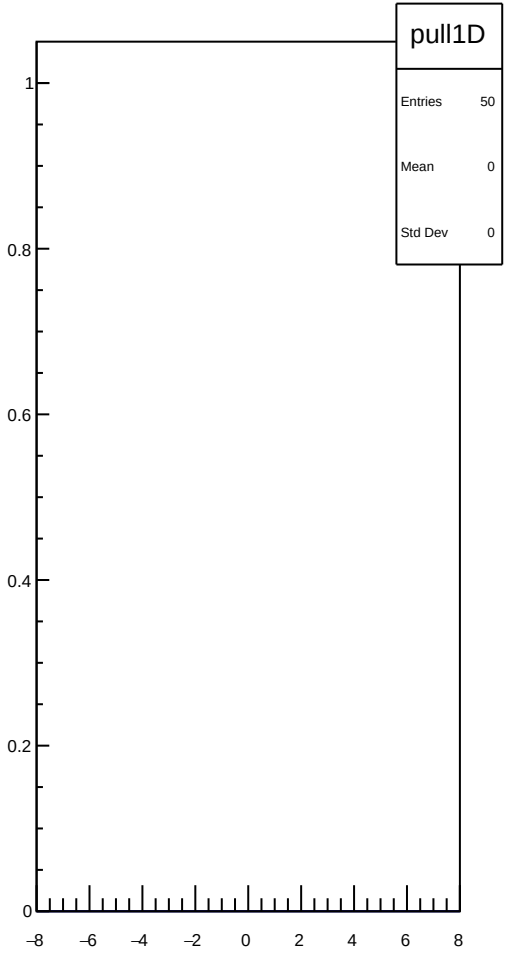
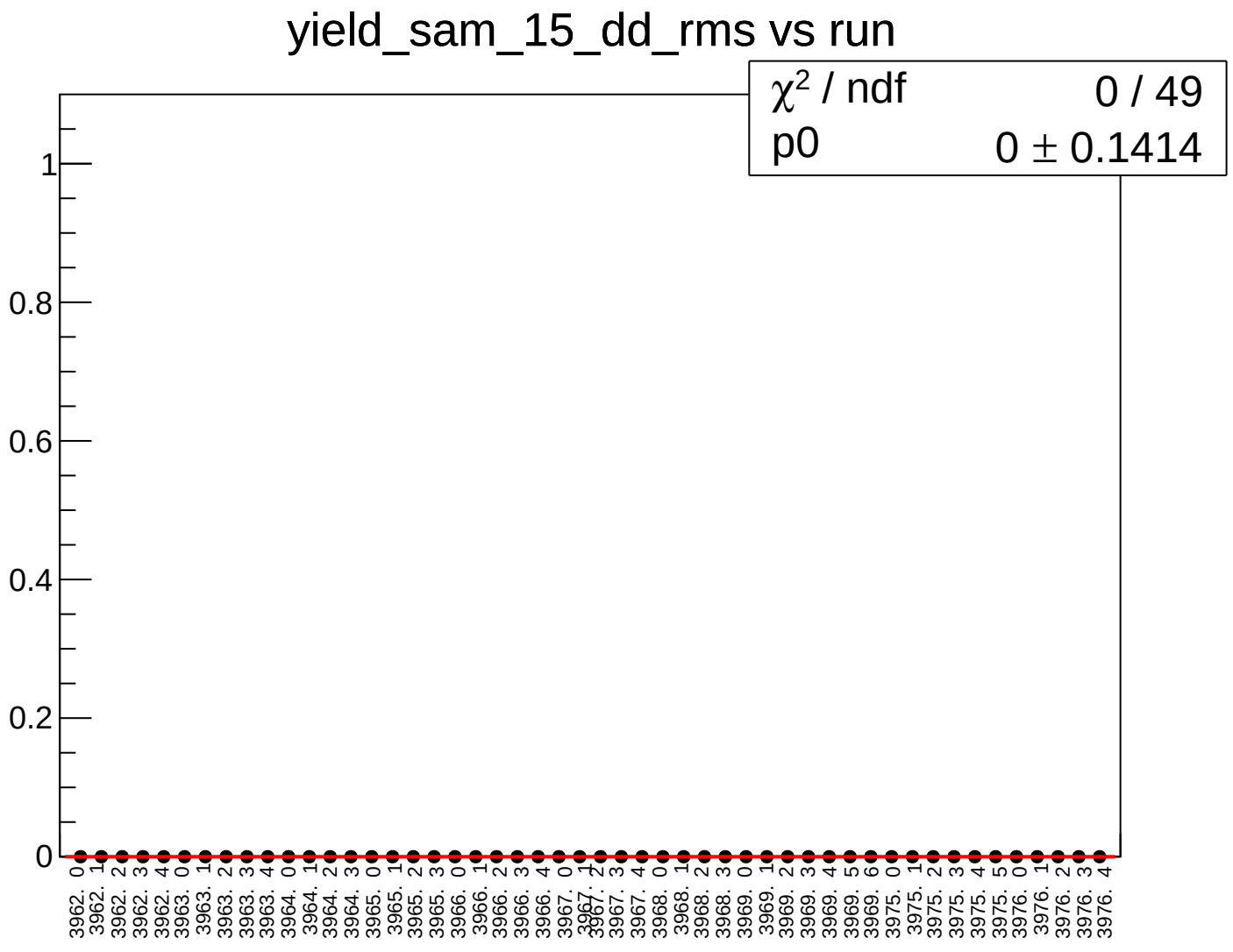
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 38.5 / 49
p0 −1.032e+04 ± 6027
150
100
50
0
−50
−100
−150
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 74.38
Std Dev 61.26
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.01341
Std Dev 0.8774
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 1248 / 49
p0 4243 ± 4.262
4600
4400
4200
4000
3800
3600
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


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


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


yield_sam_15_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
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3964. 3
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3965. 2
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3967. 0
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3967. 2
3967. 3
3967. 4
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3969. 0
3969. 1
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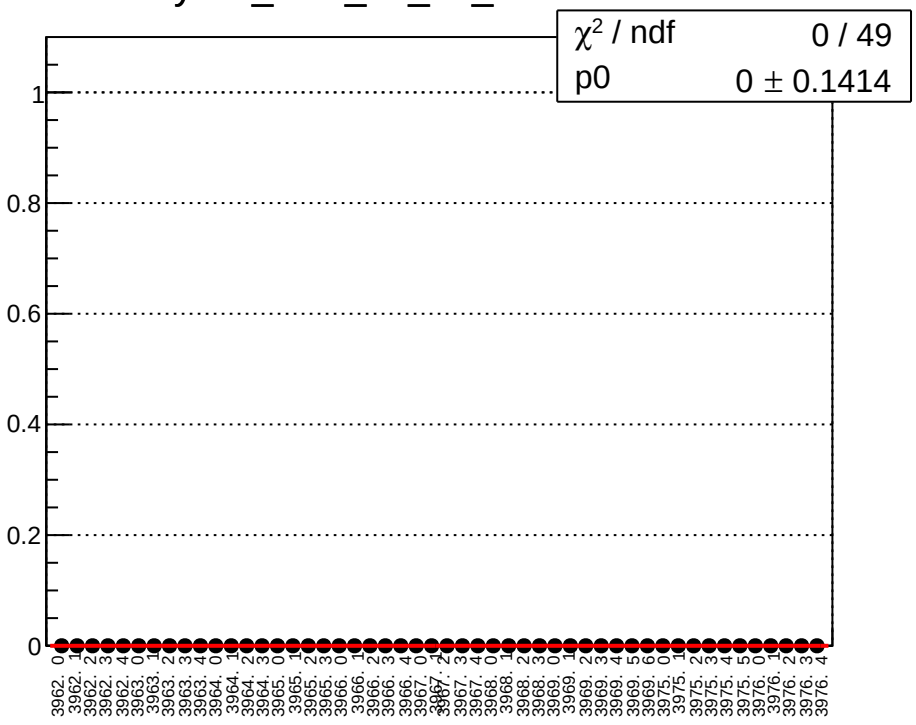
yield_sam_26_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
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3964. 2
3964. 3
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3965. 2
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3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
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3968. 0
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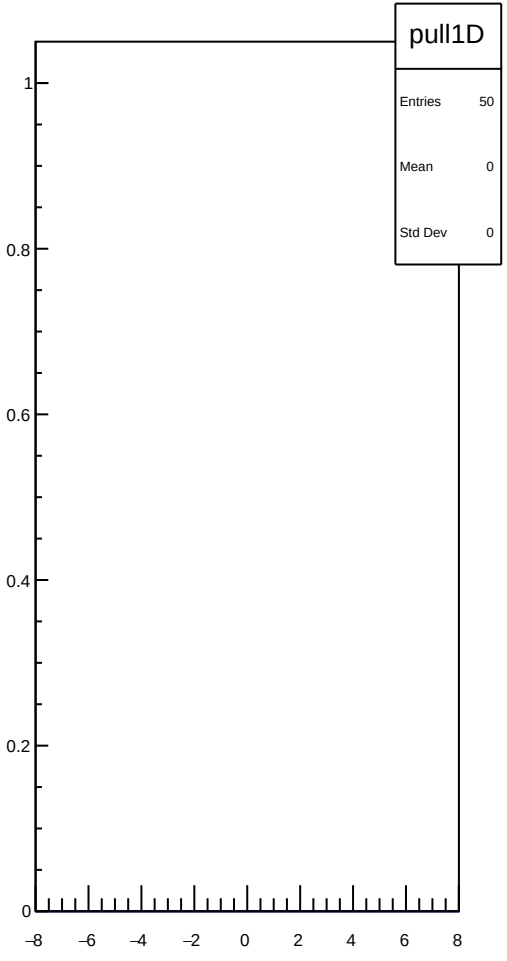
pull1D
Entries 50
Mean 0
Std Dev 0
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0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
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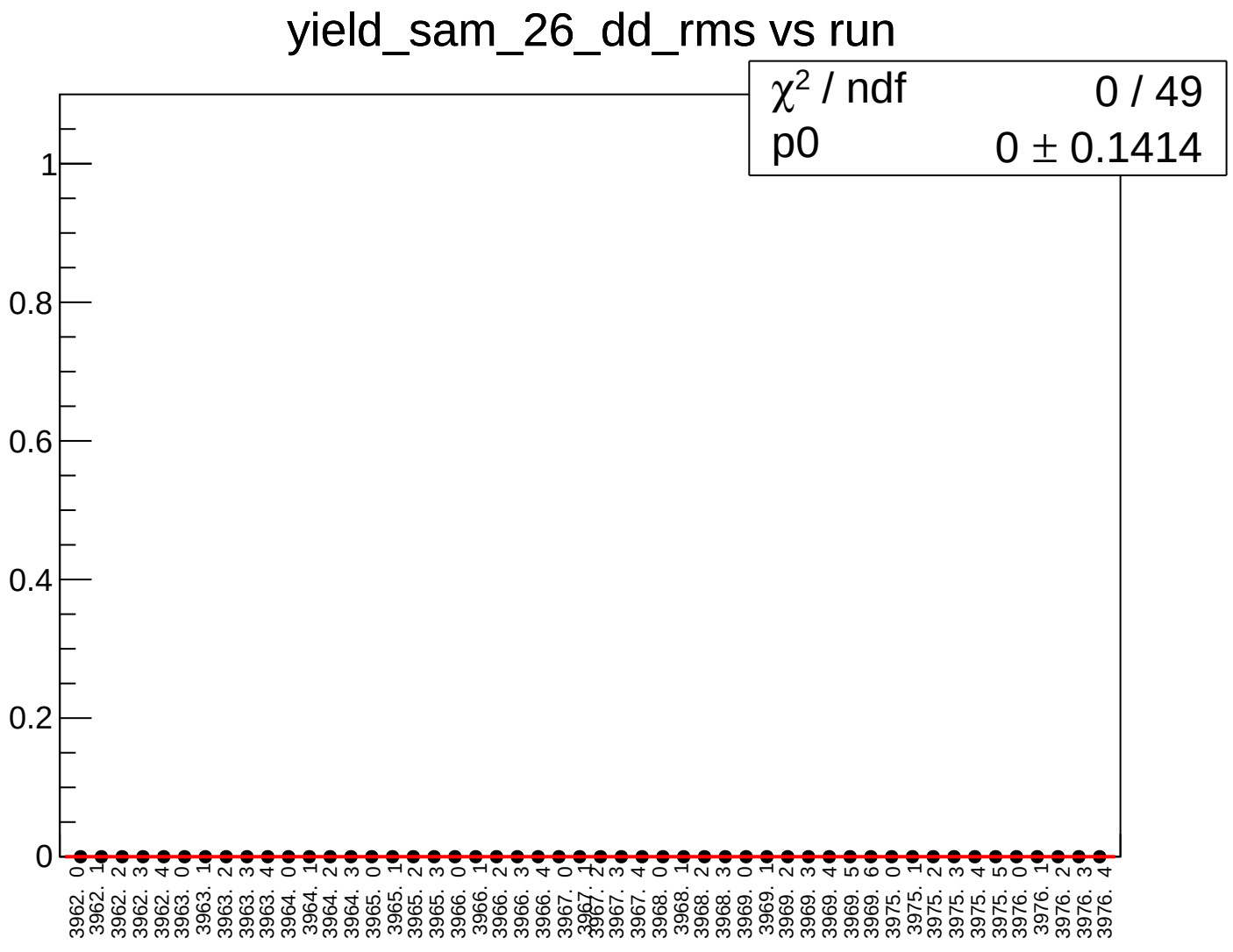
2
4
6
8


yield_sam_26_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
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3967. 2
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3968. 2
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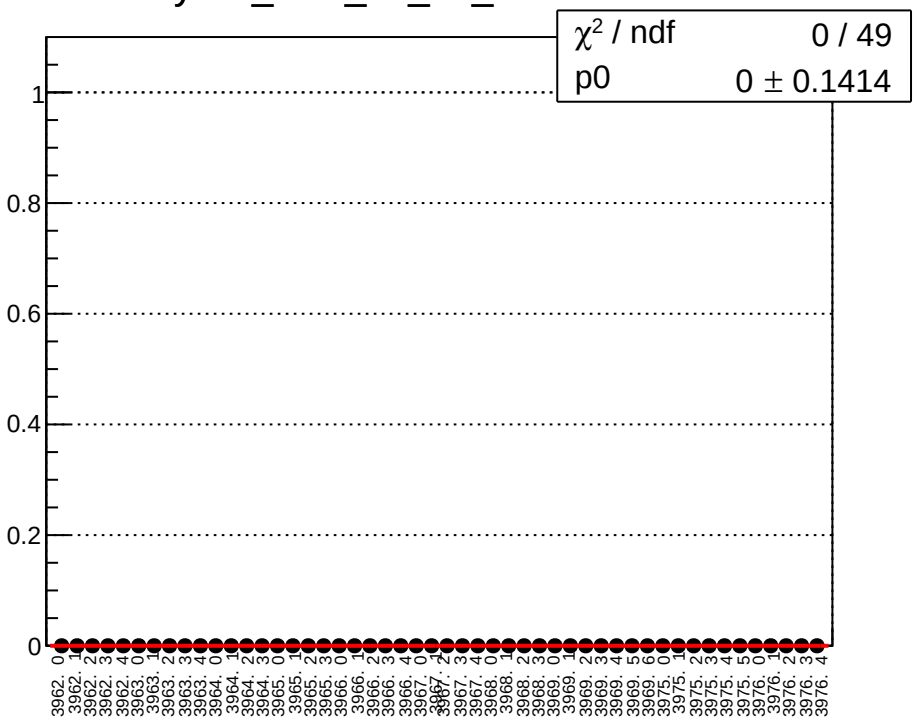
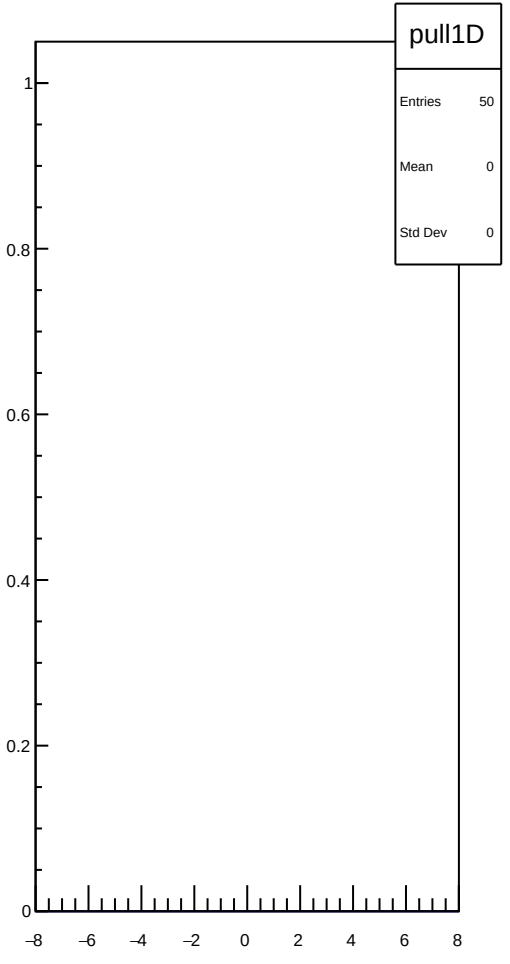
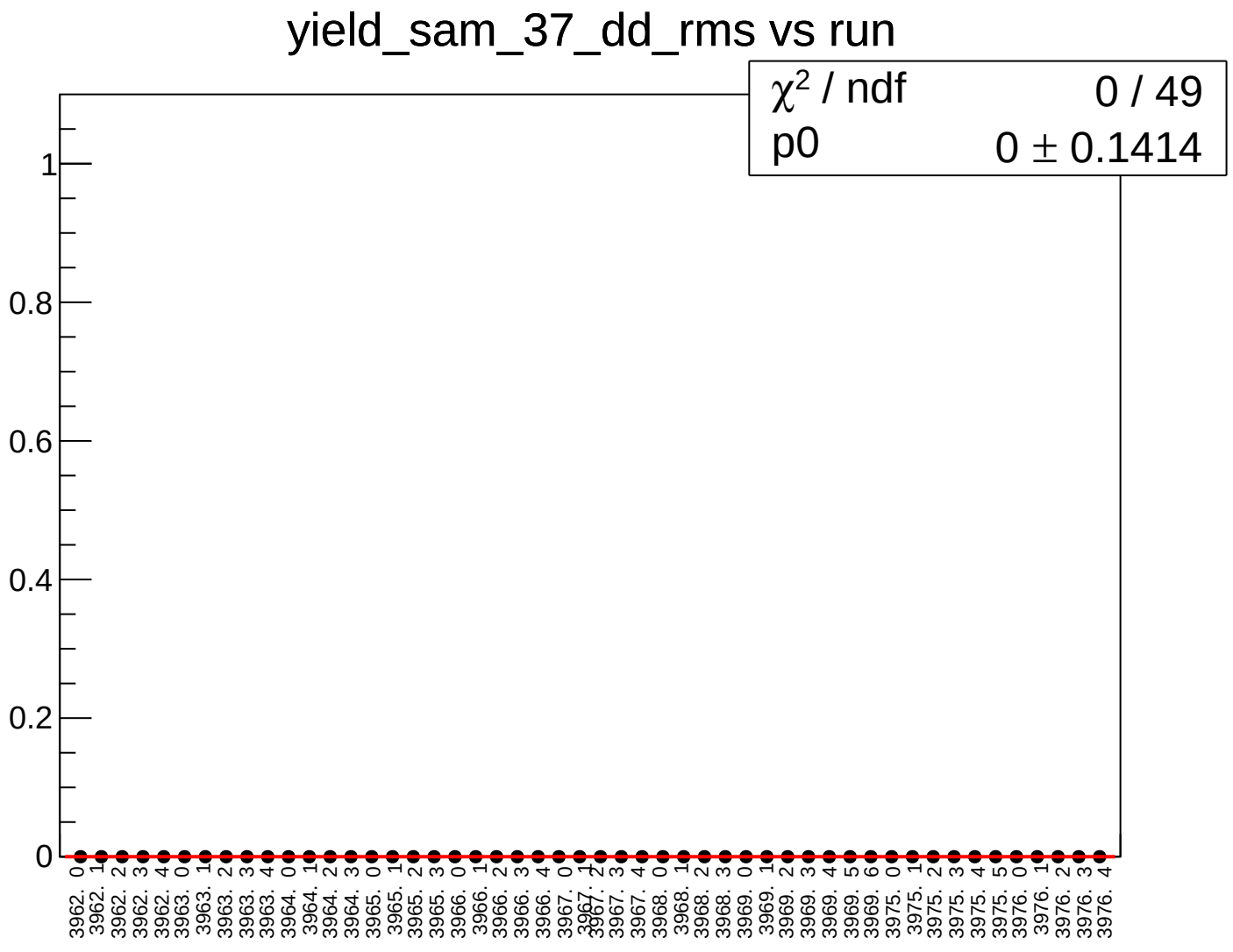

yield_sam_37_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


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


yield_sam_37_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
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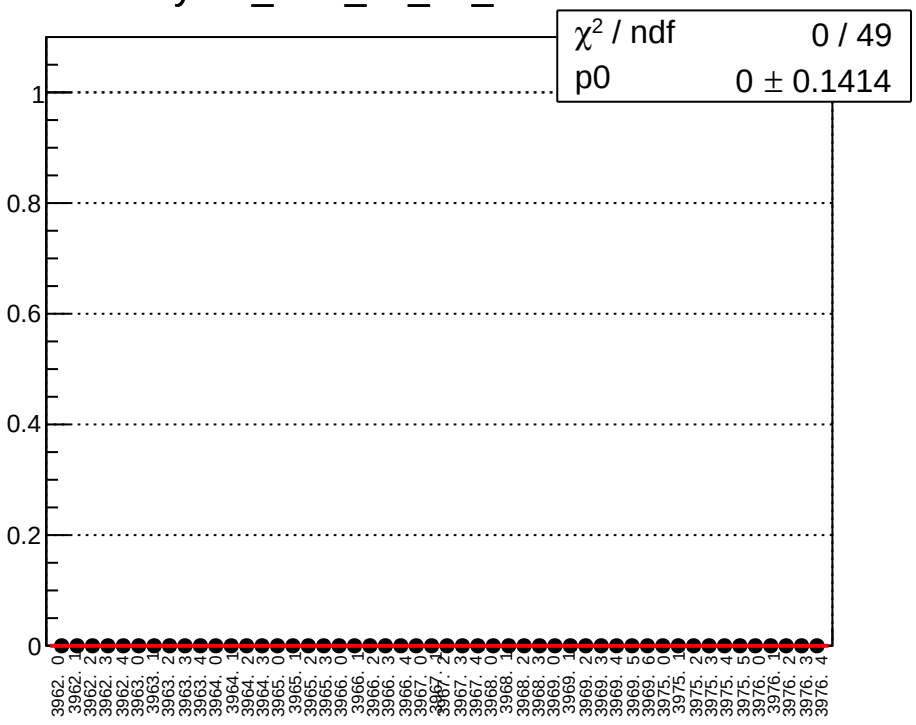
yield_sam_48_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
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3969. 0
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3969. 2
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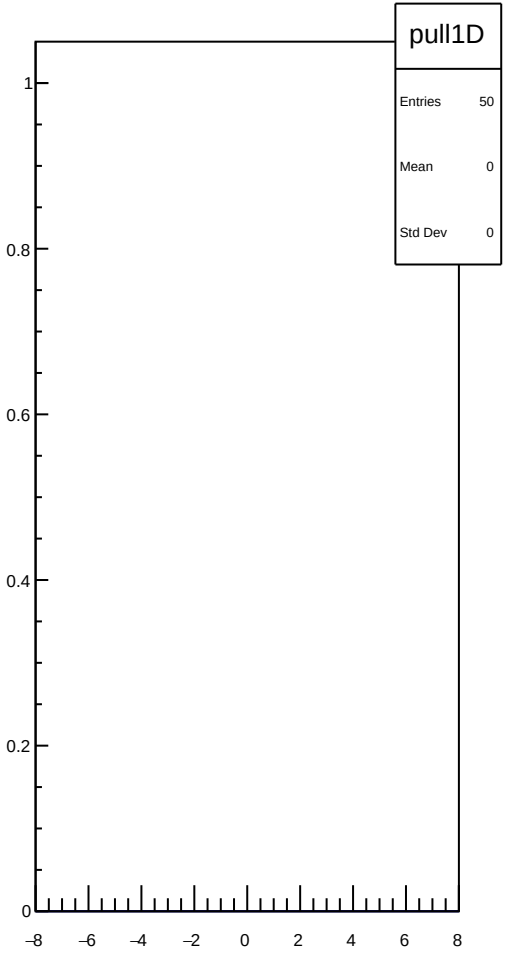
pull1D
Entries 50
Mean 0
Std Dev 0
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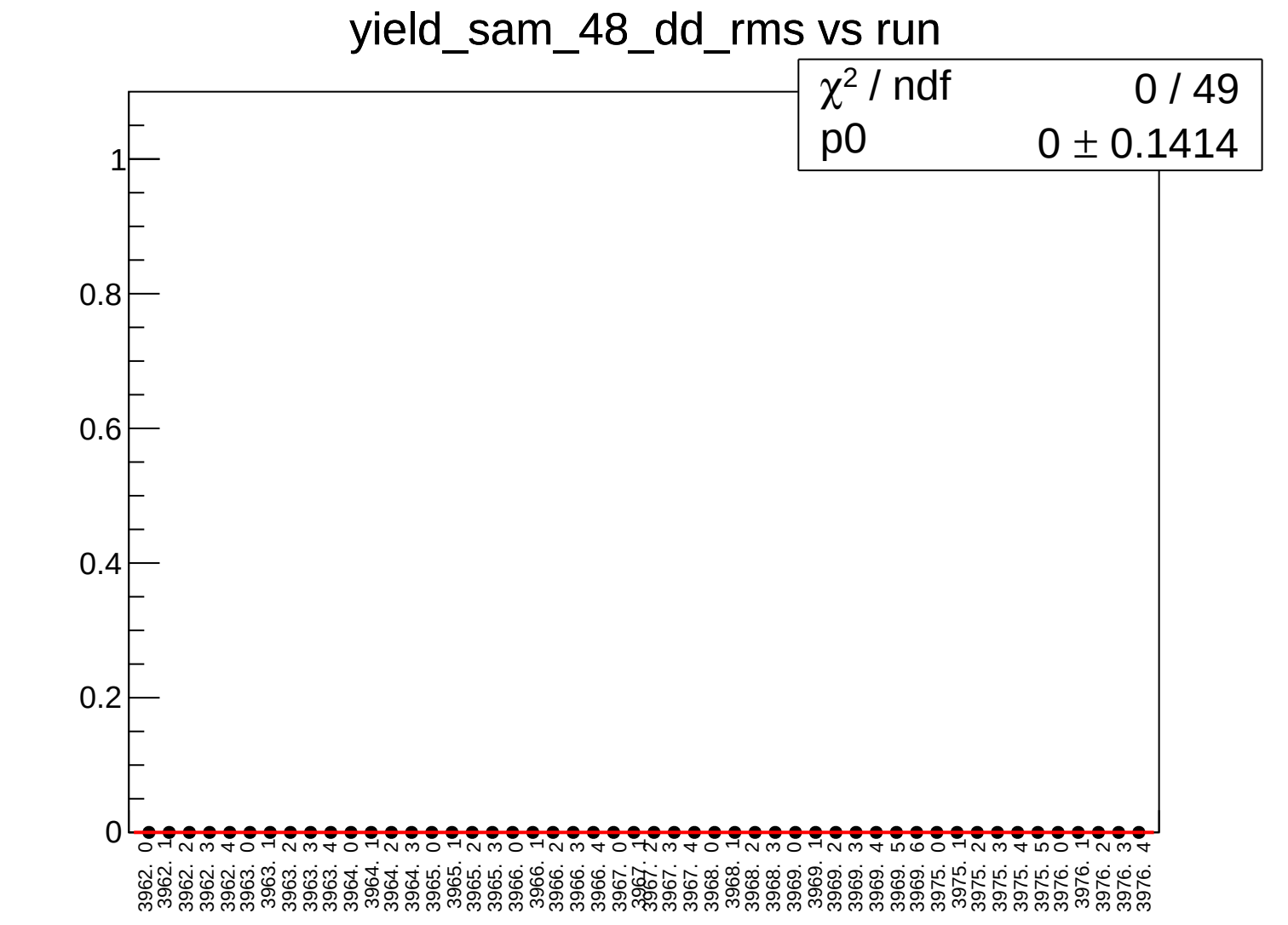
yield_sam_48_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
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0.4
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3967. 0
3967. 1
3967. 2
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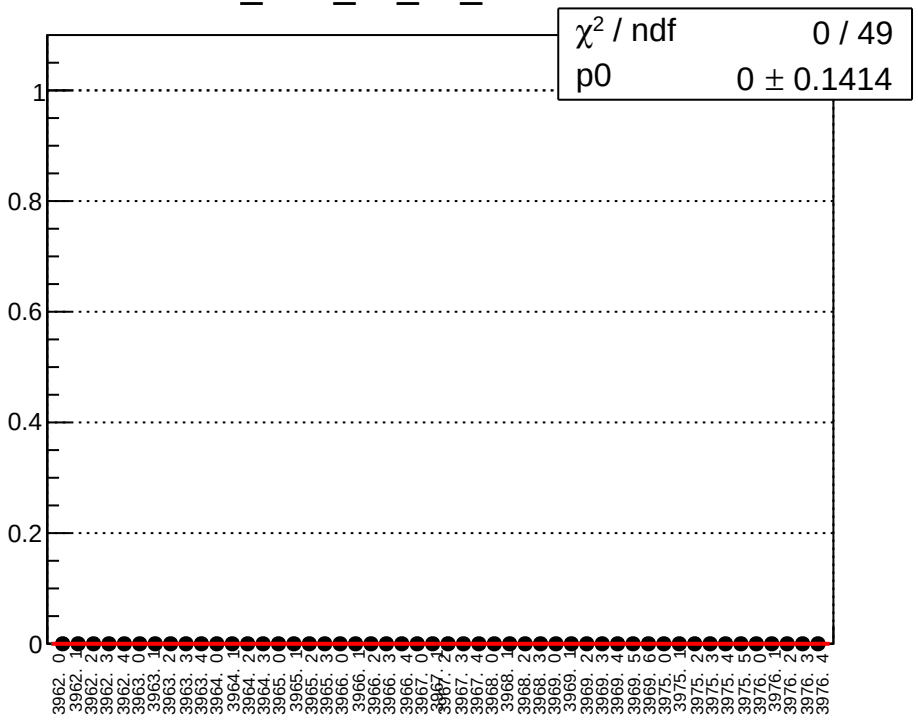
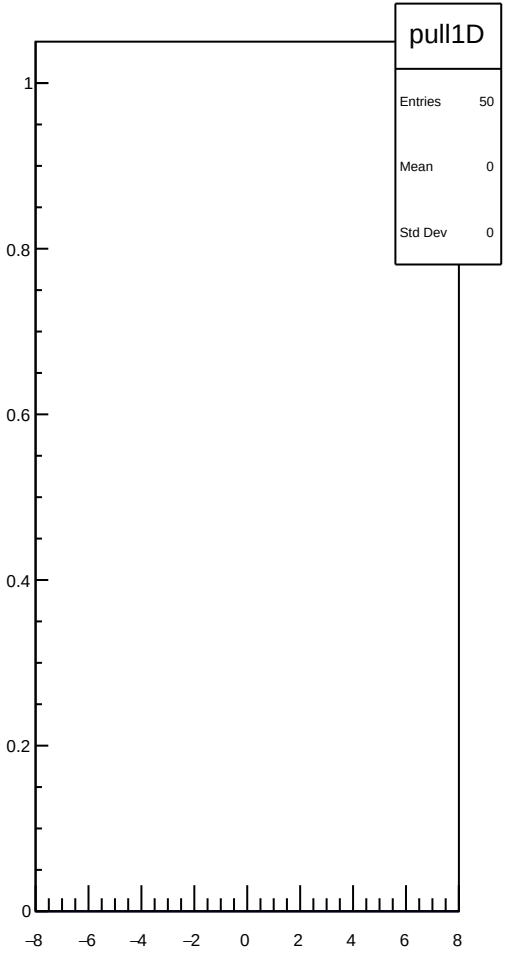
3976. 4


cor_sam_15_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
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Std Dev 0
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0.6
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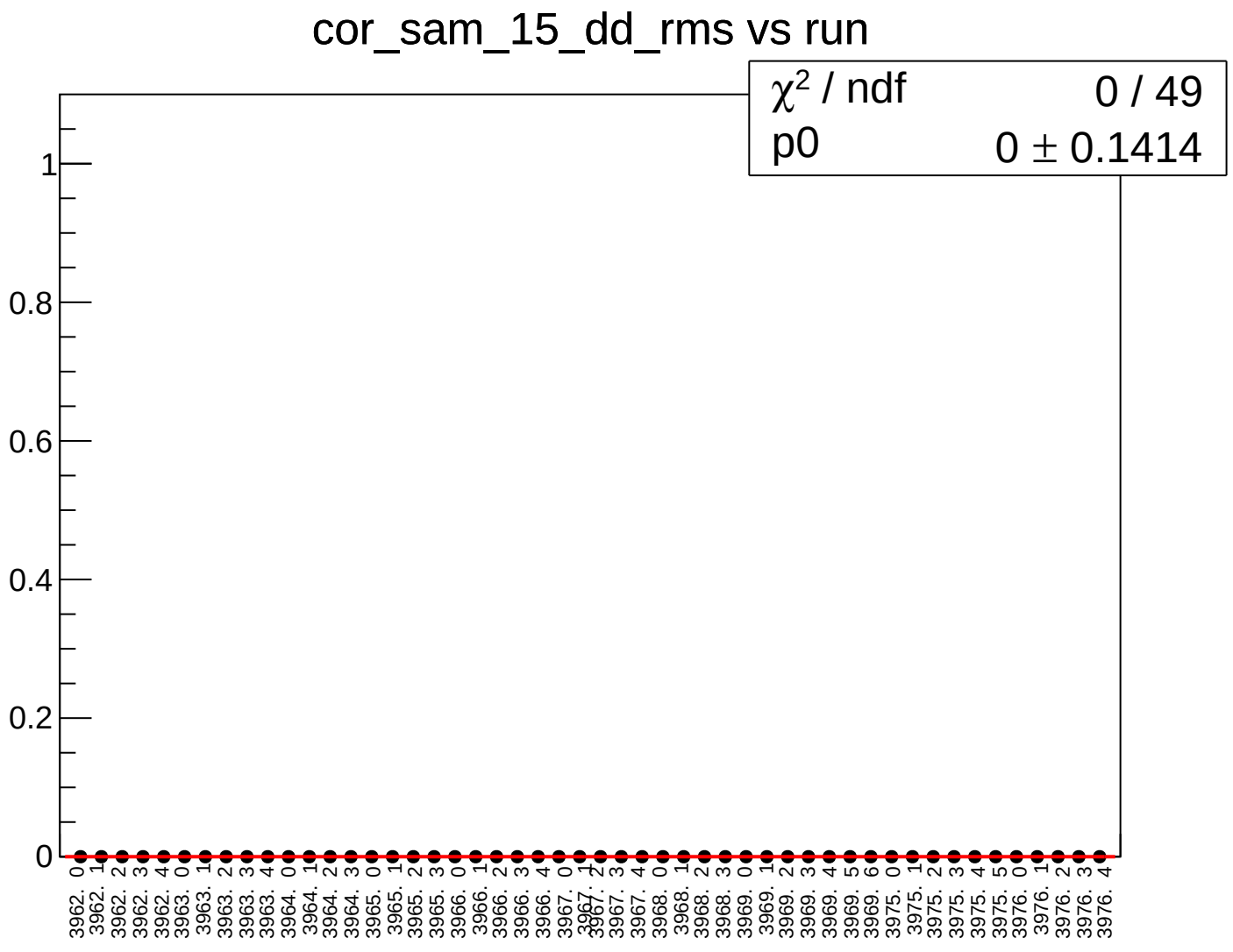
cor_sam_15_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
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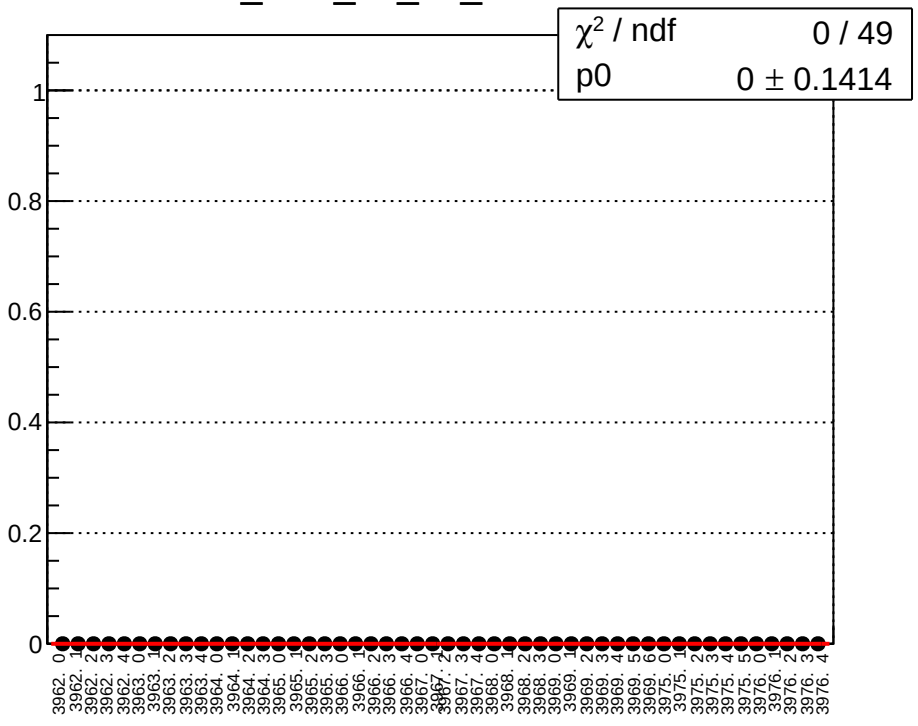
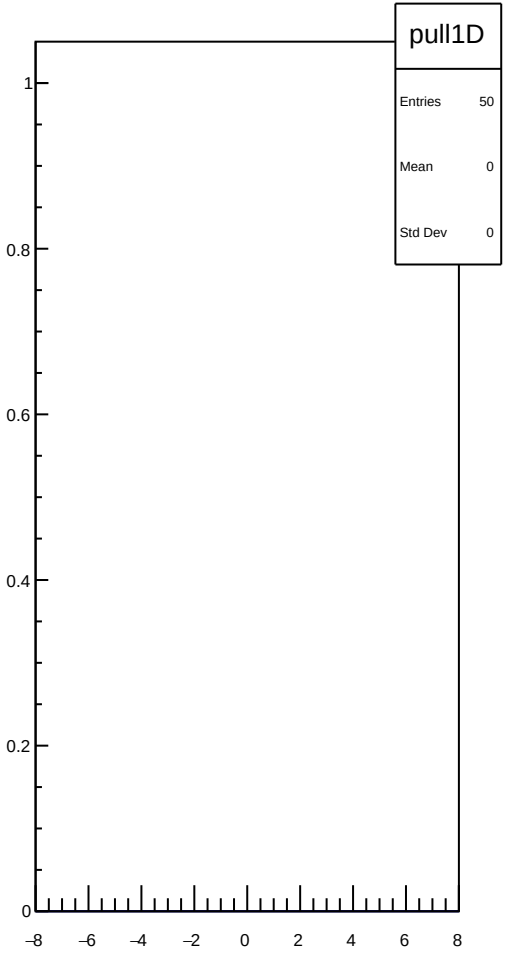

cor_sam_26_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 50
Mean 0
Std Dev 0
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0.6
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6
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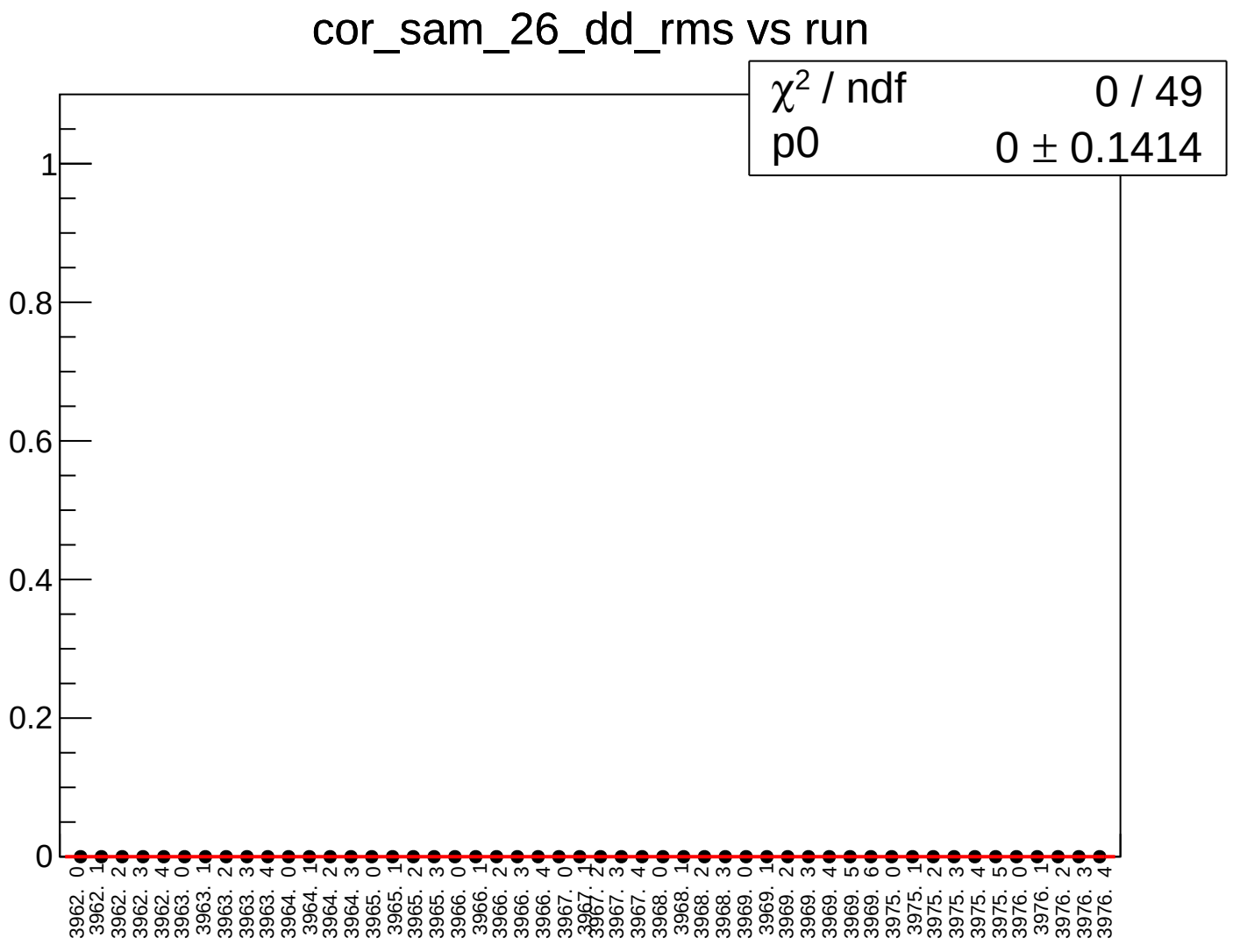
cor_sam_26_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
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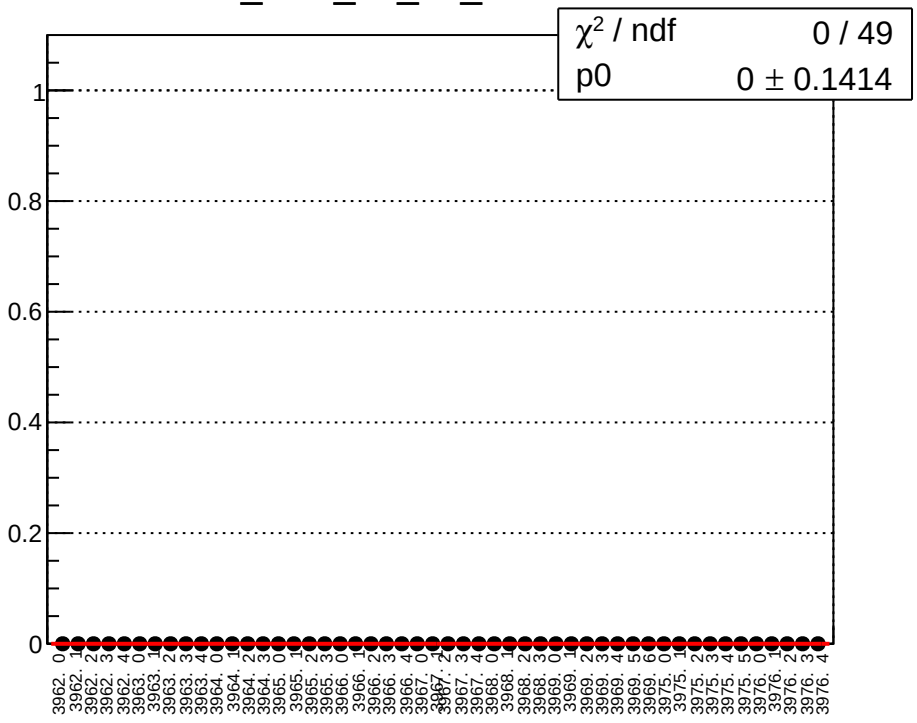
3976. 4


cor_sam_37_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
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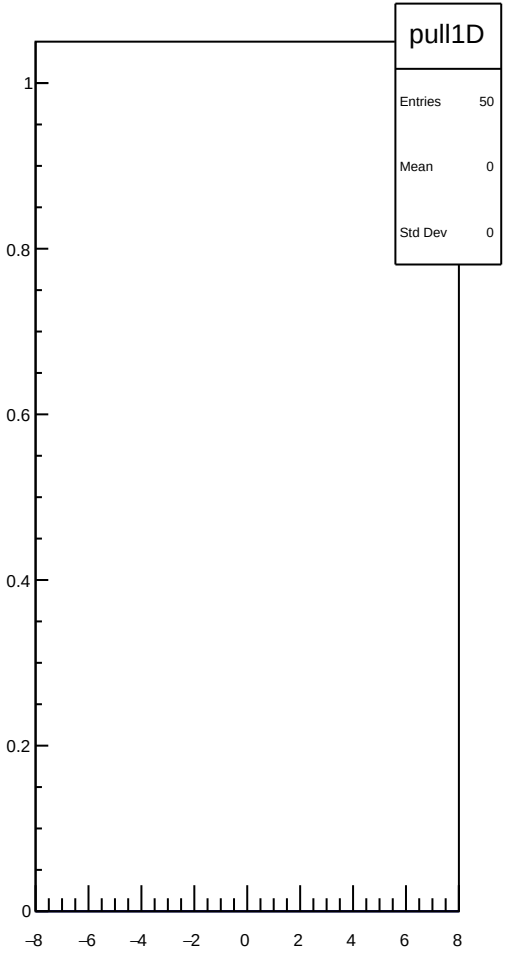
pull1D
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Std Dev 0
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2
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6
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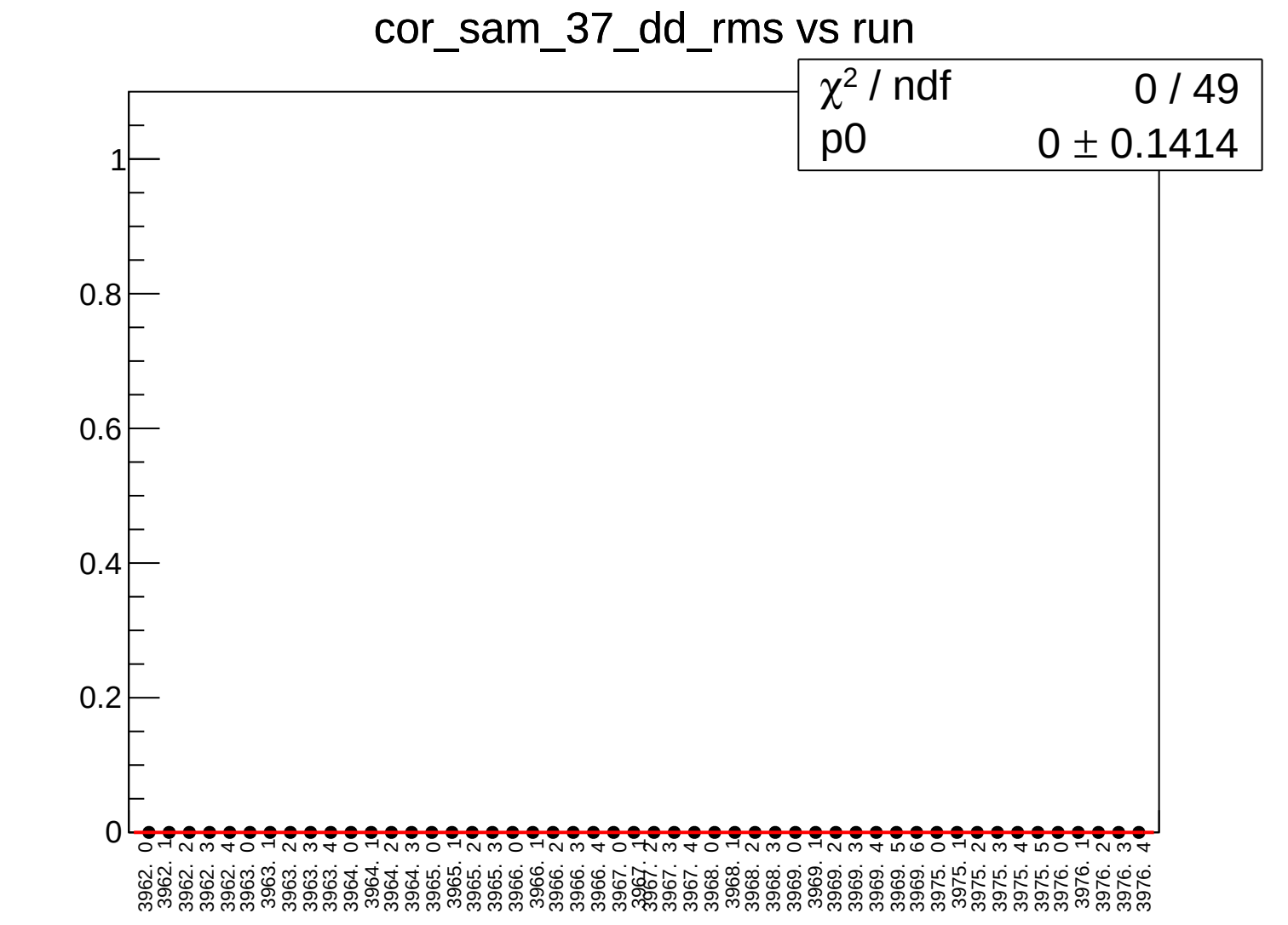
cor_sam_37_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
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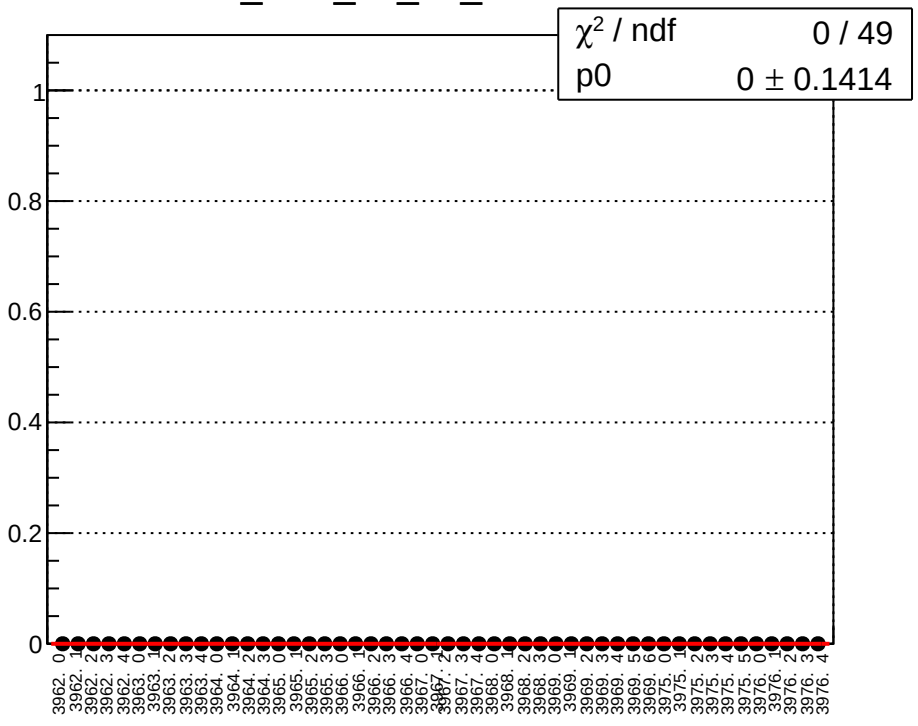
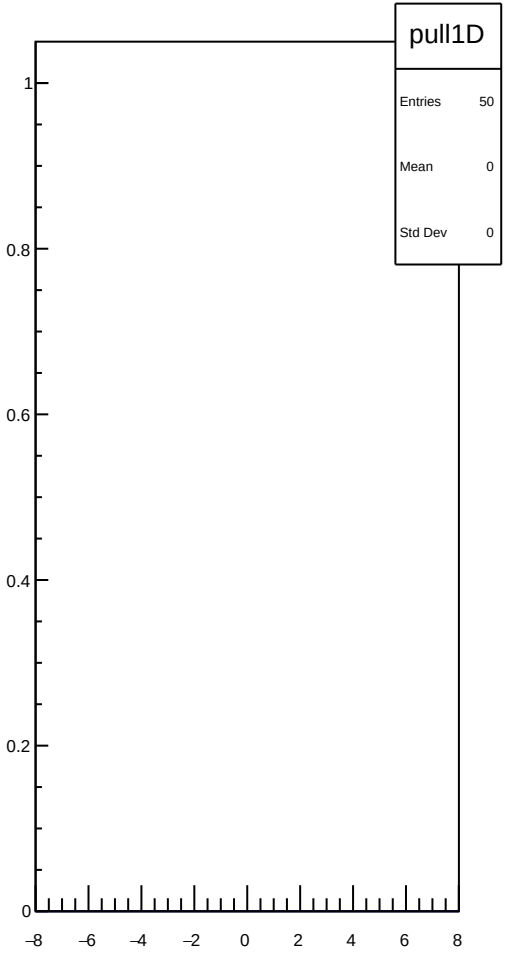
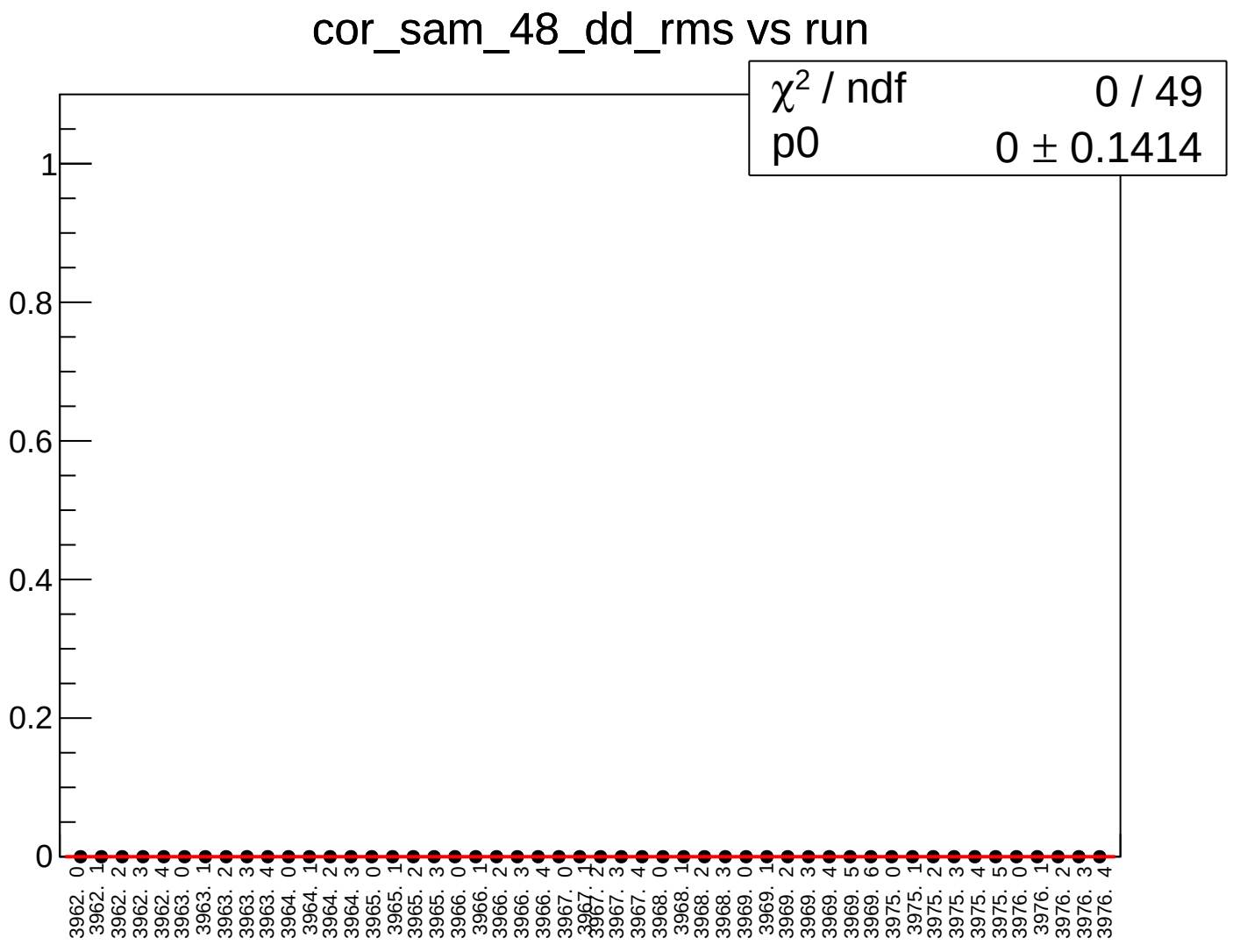

cor_sam_48_dd_mean vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
0.6
0.4
0.2
0


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


cor_sam_48_dd_rms vs run
χ² / ndf 0 / 49
p0 0 ± 0.1414
1
0.8
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0.2
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3969. 5
3969. 6
3975. 0
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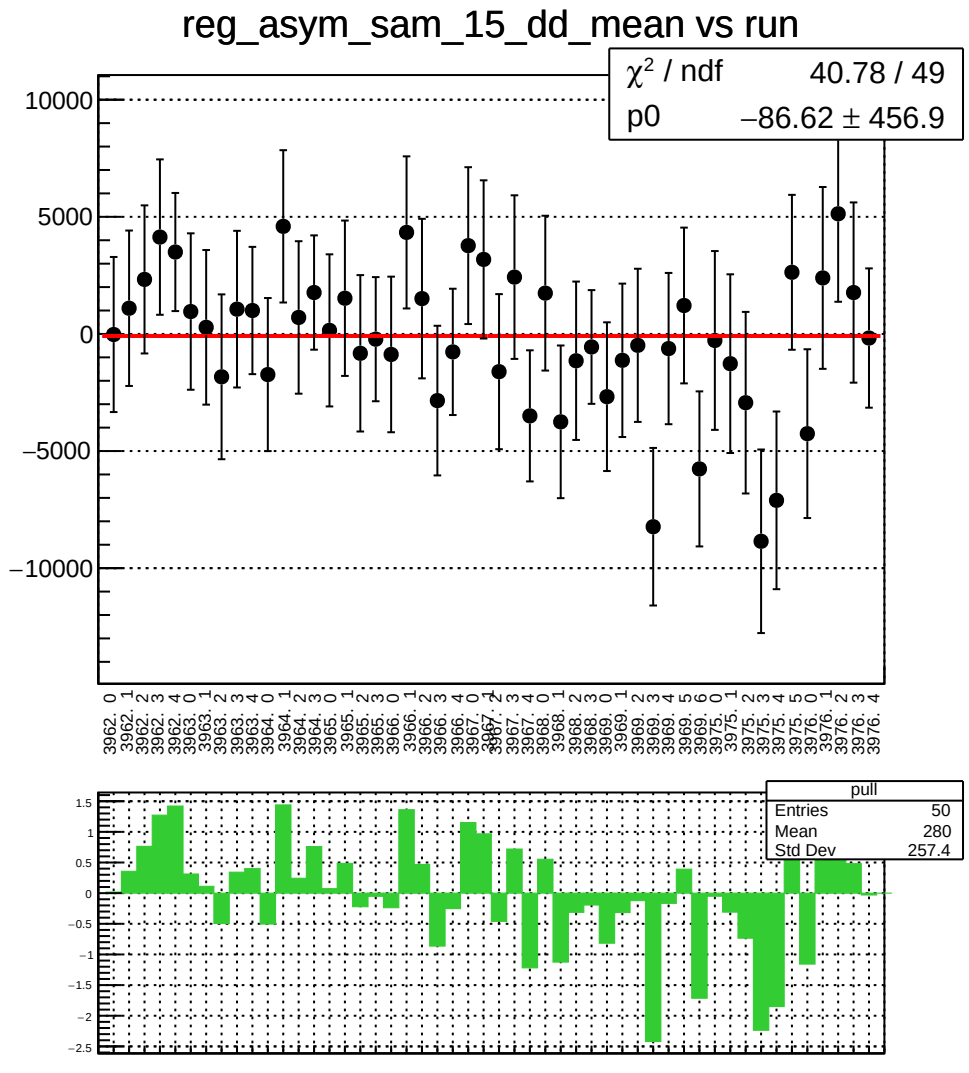
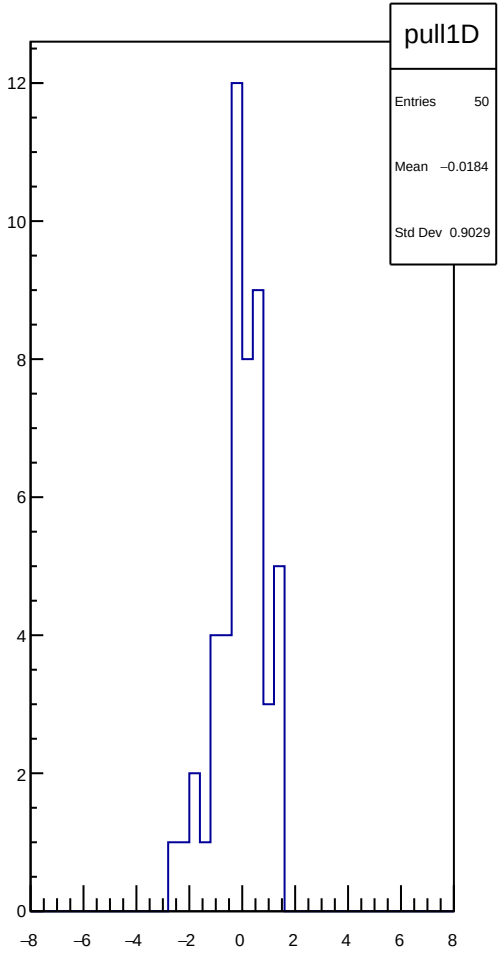
3976. 4


reg_asym_sam_15_dd_mean vs run
χ² / ndf 40.78 / 49
p0 −86.62 ± 456.9
10000
5000
0
−5000
−10000
pull
Entries 50
Mean 280
Std Dev 257.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean −0.0184
Std Dev 0.9029
12
10
8
6
4
2
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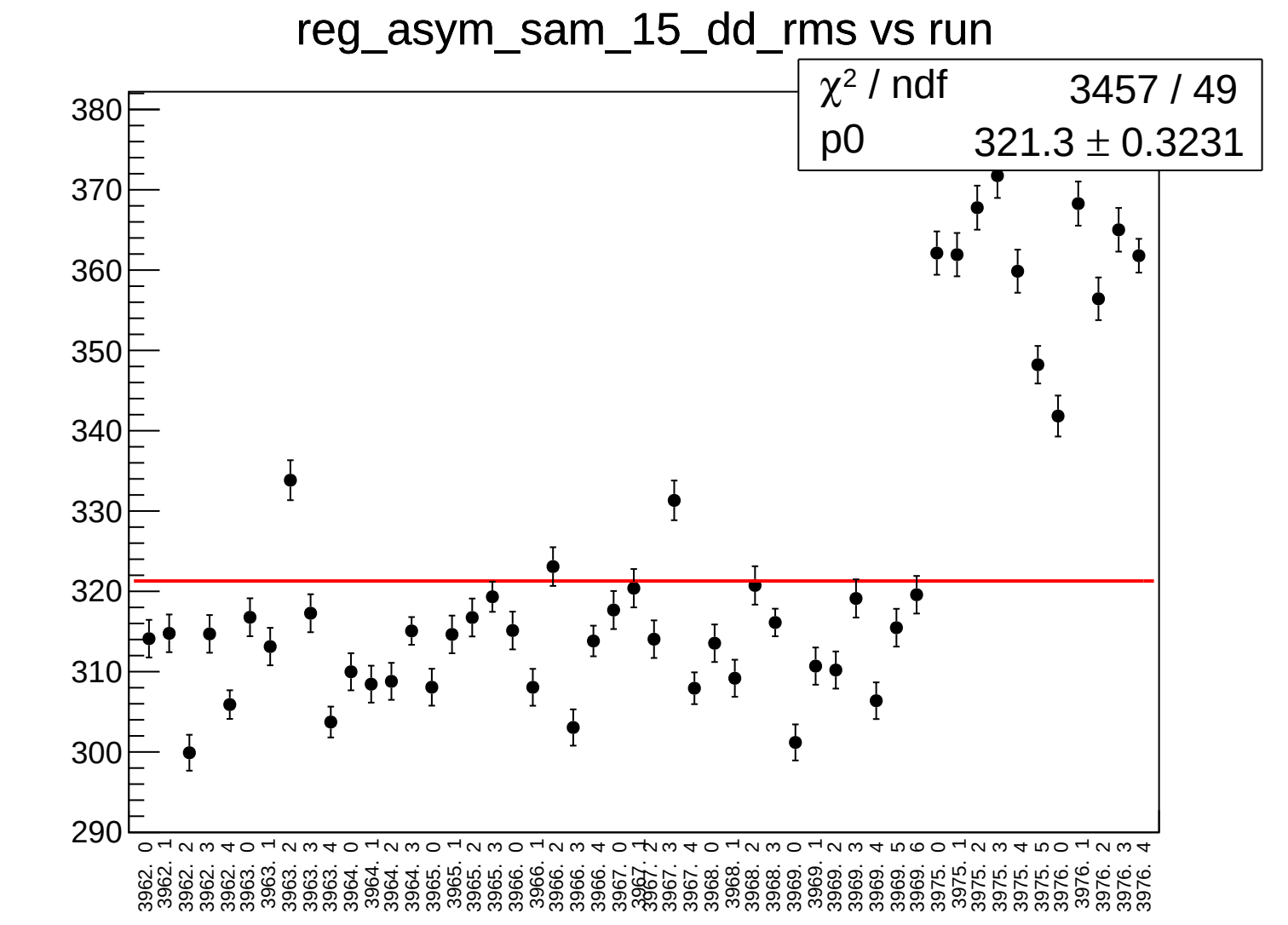
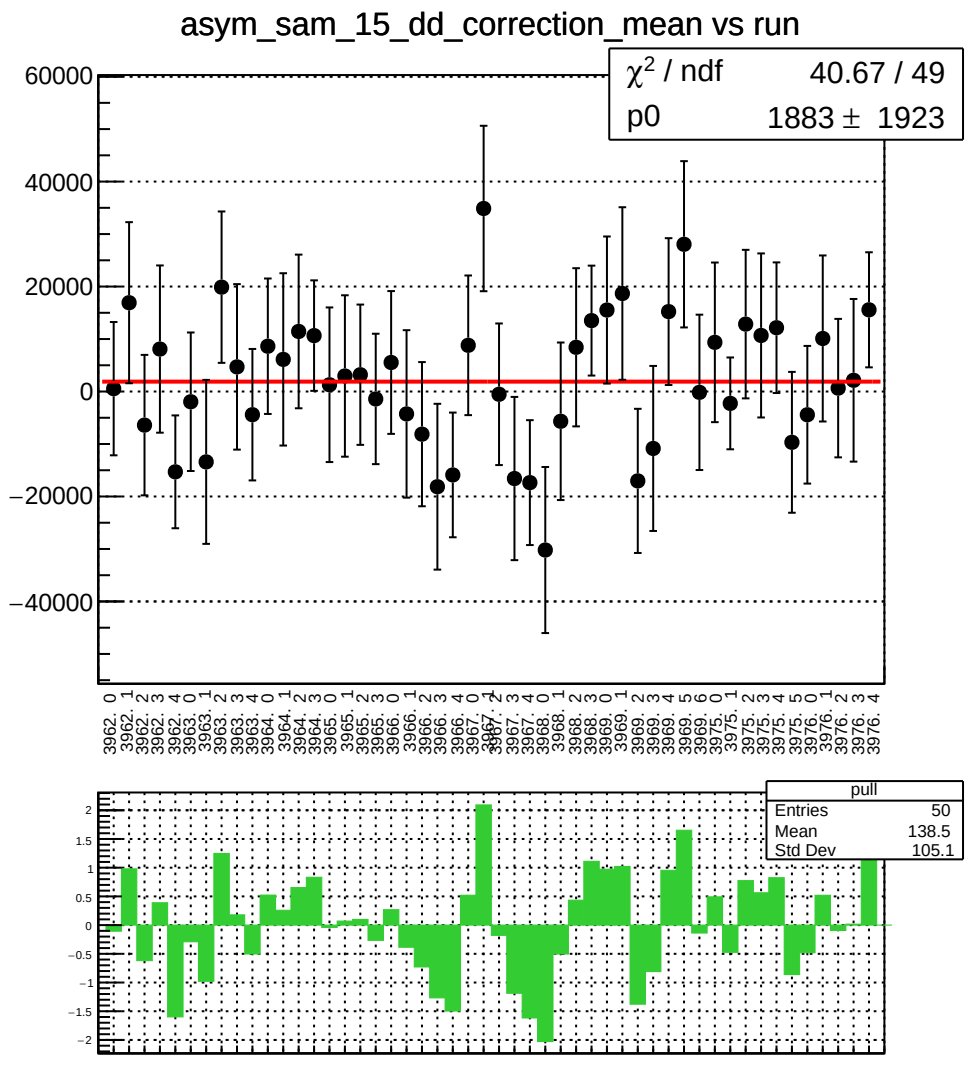
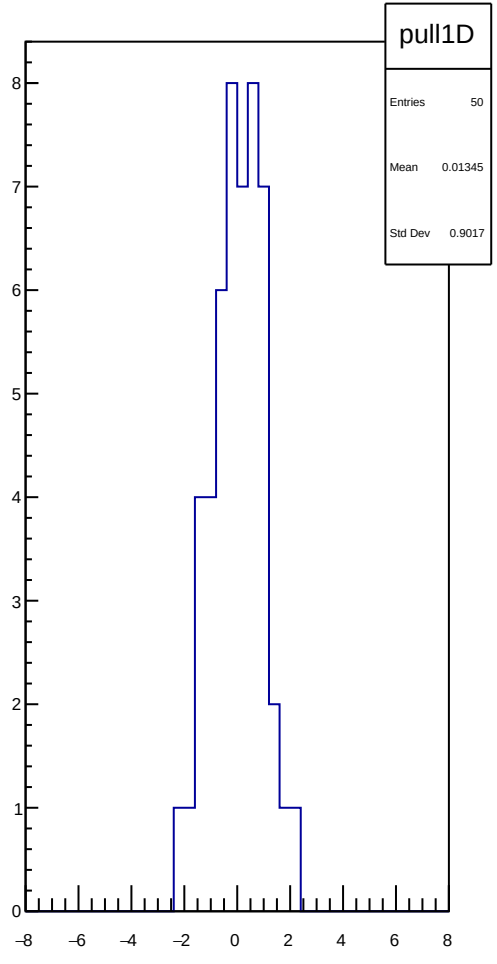
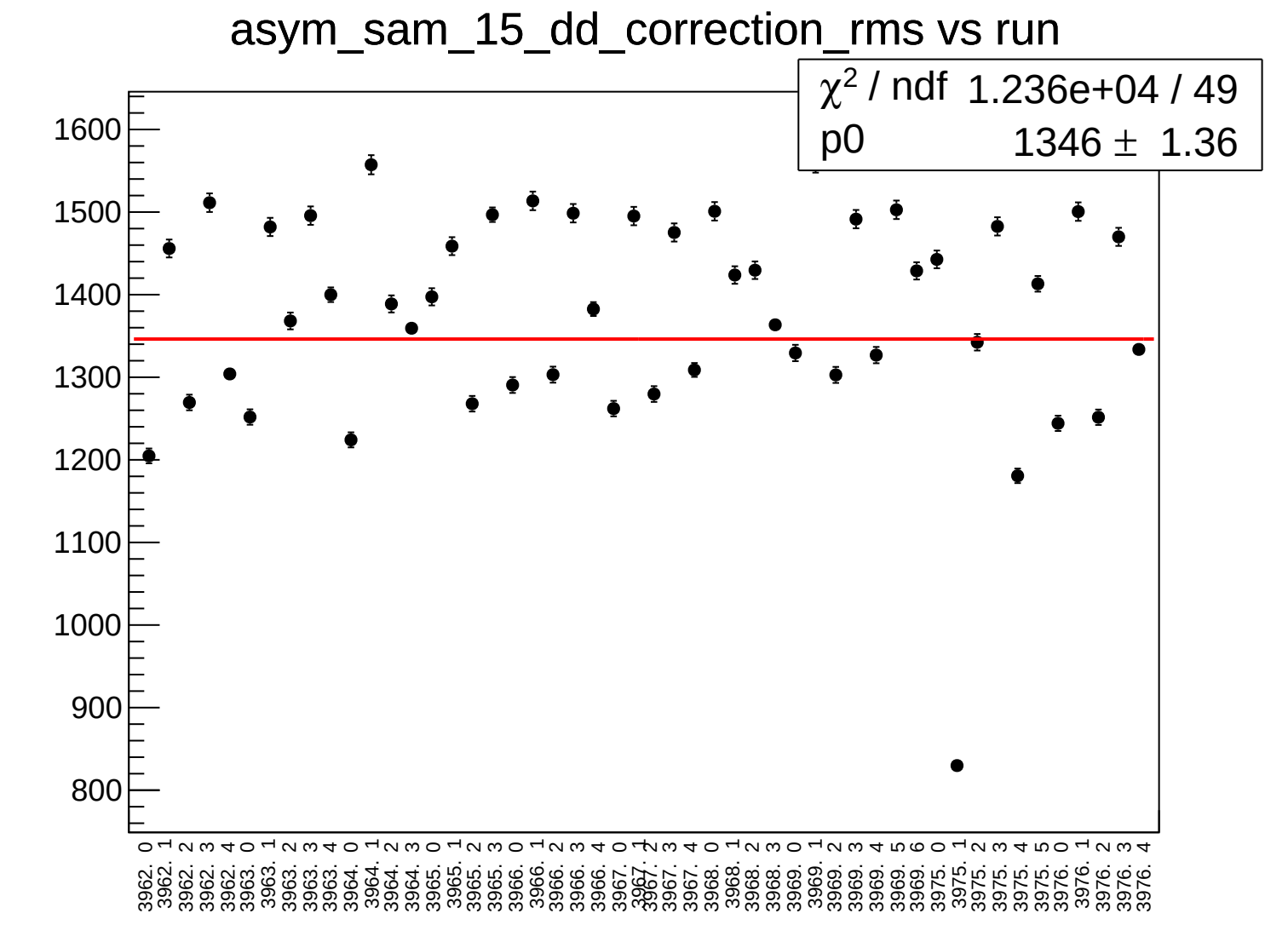
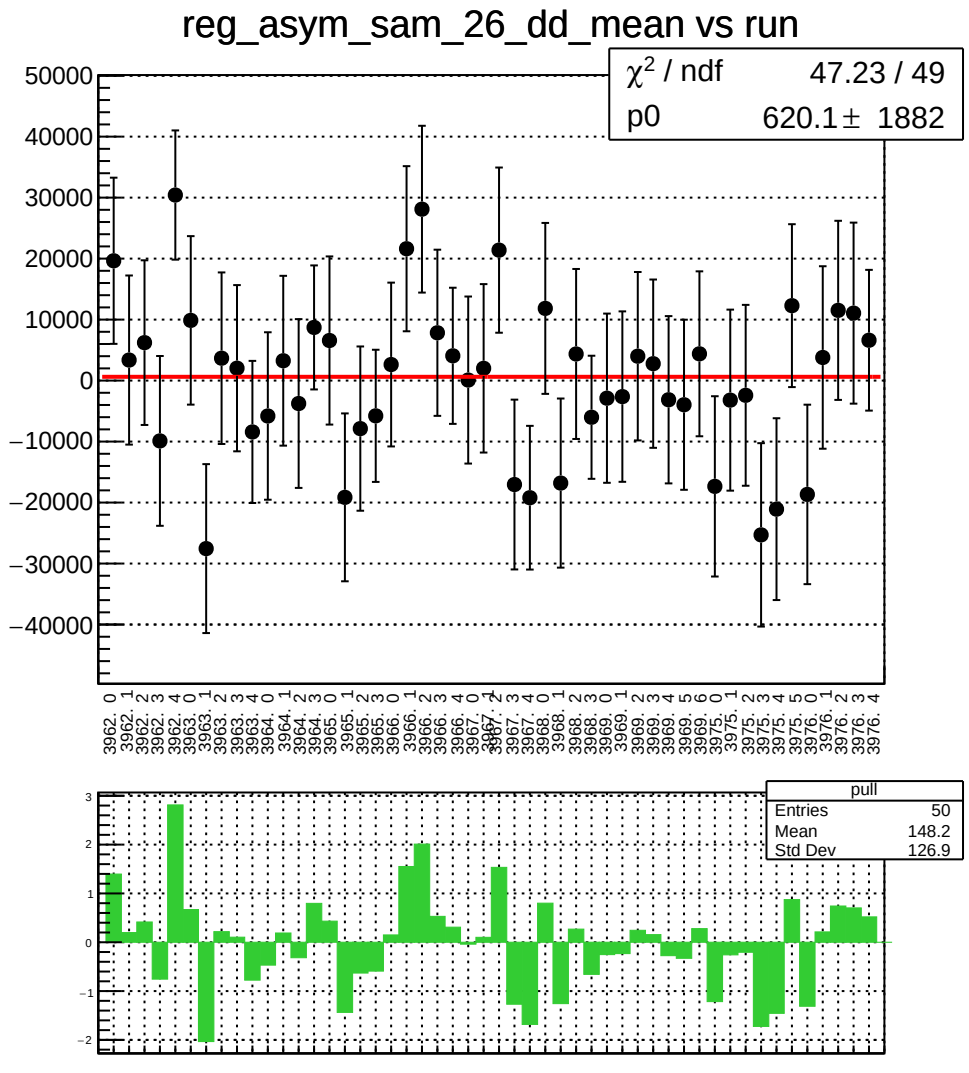
6
8

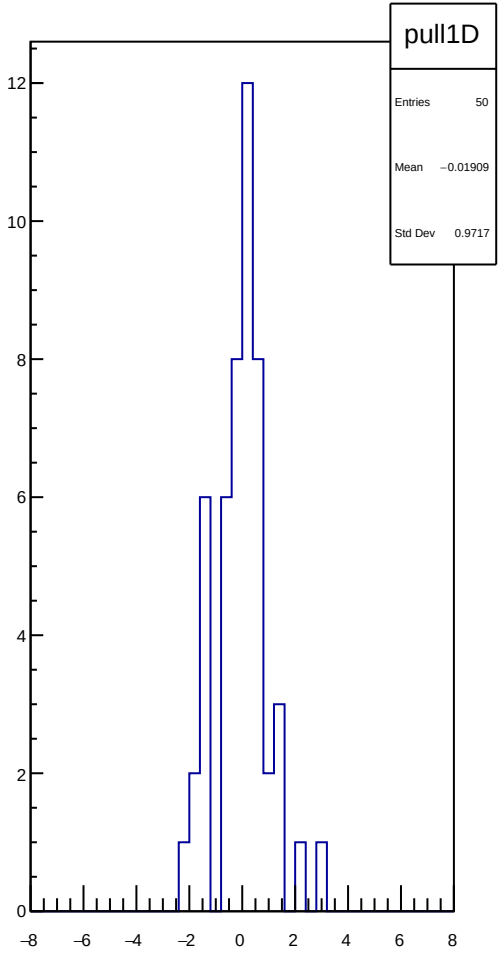

reg_asym_sam_15_dd_rms vs run
χ² / ndf 3457 / 49
p0 321.3 ± 0.3231
380
370
360
350
340
330
320
310
300
290
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

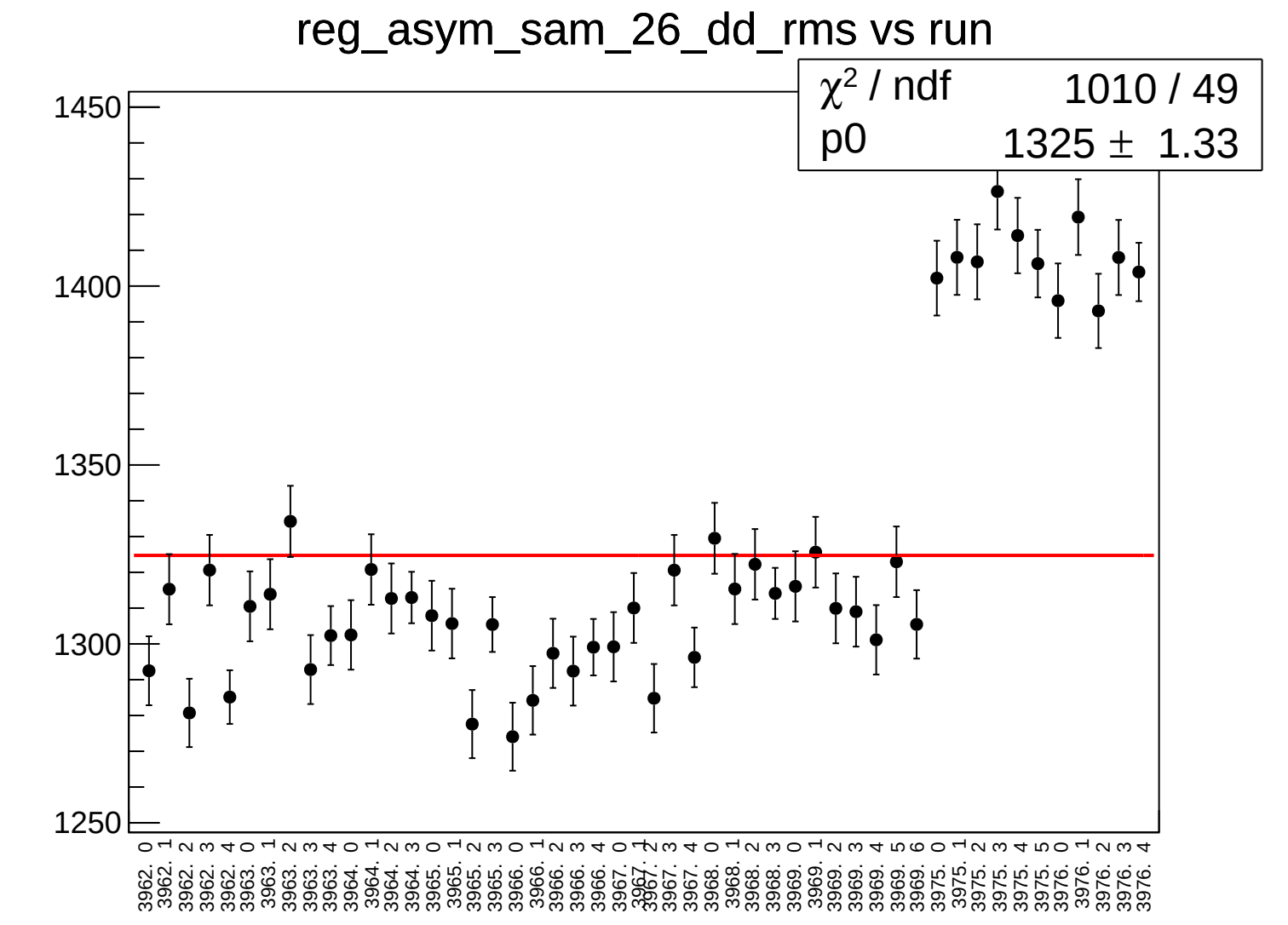

asym_sam_15_dd_correction_mean vs run
χ² / ndf 40.67 / 49
p0 1883 ± 1923
pull
Entries 50
Mean 138.5
Std Dev 105.1

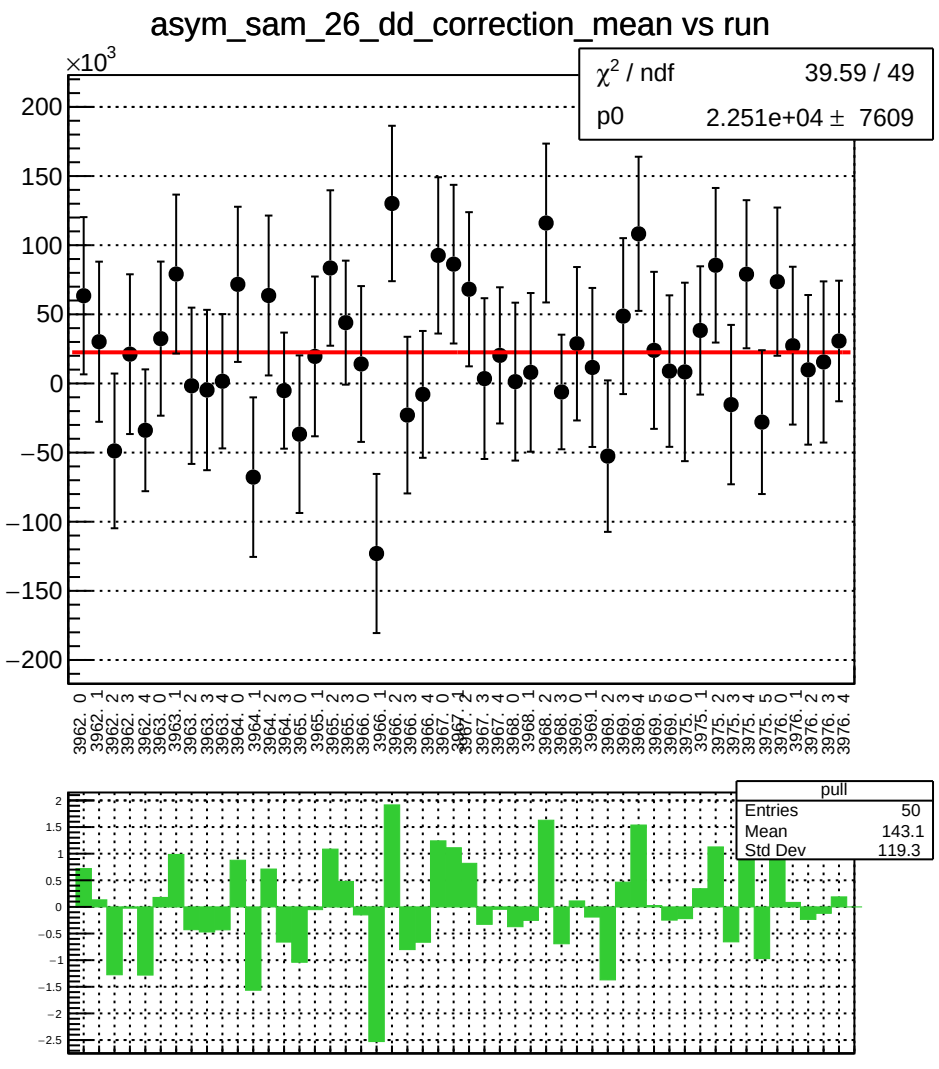

pull1D
Entries 50
Mean 0.01345
Std Dev 0.9017

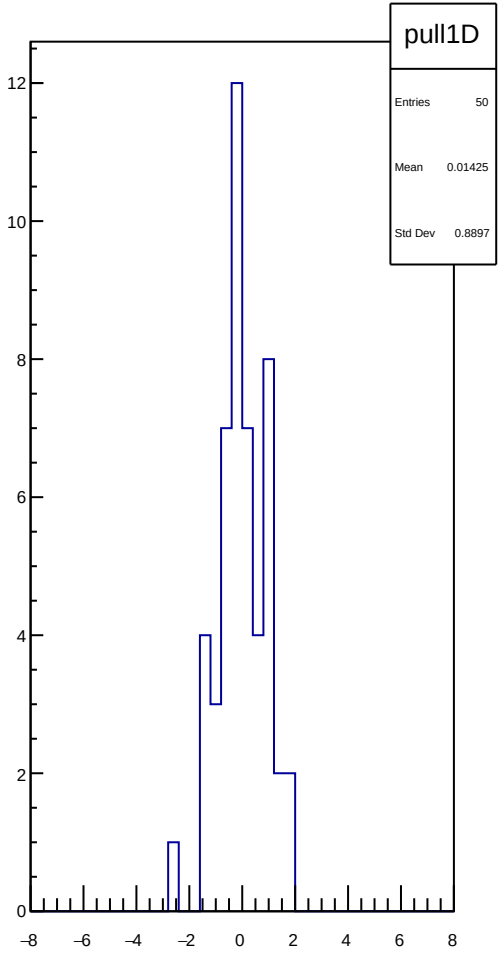

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1.236e+04 / 49
p0 1346 ± 1.36
1600
1500
1400
1300
1200
1100
1000
900
800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

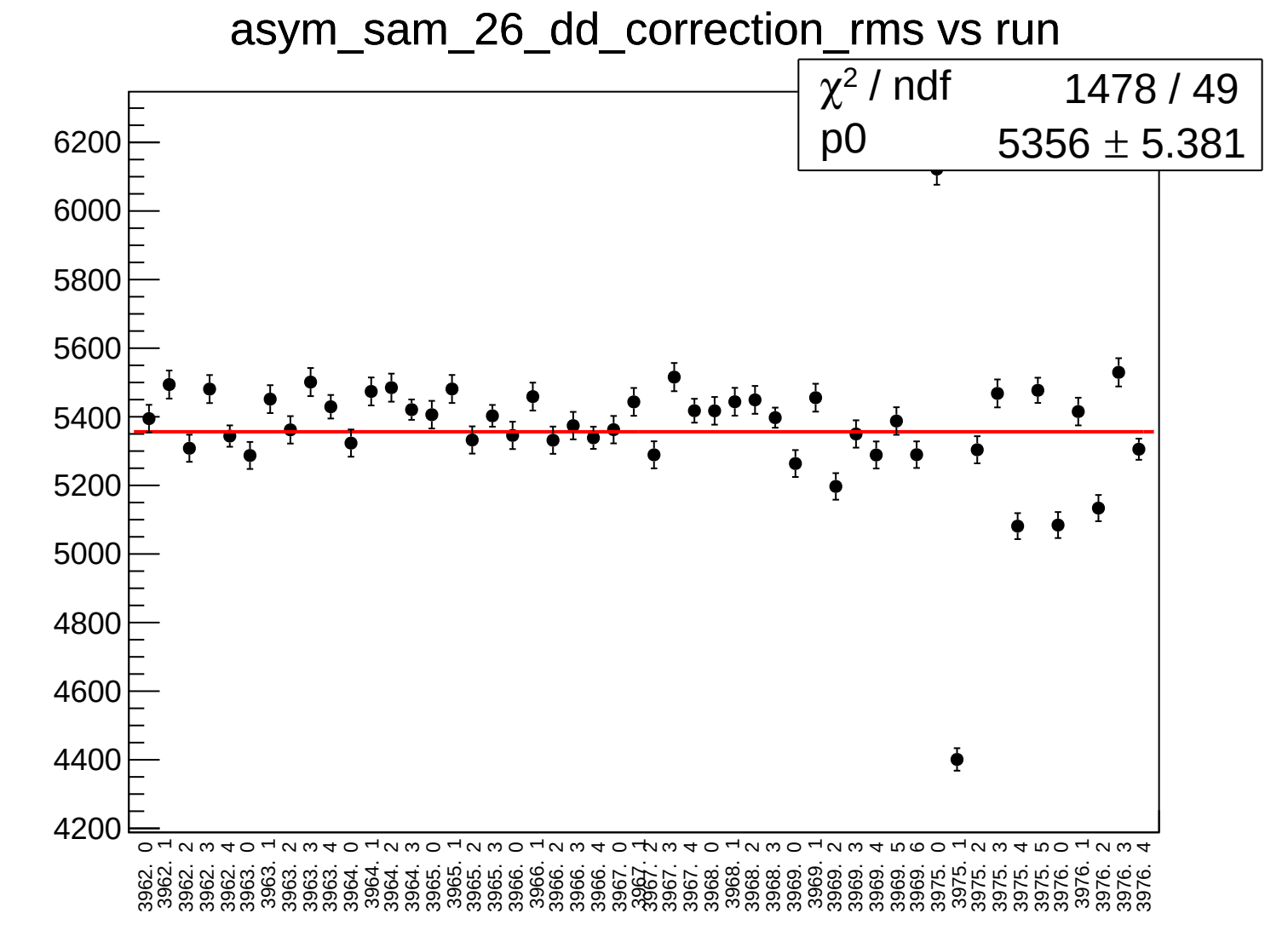

reg_asym_sam_26_dd_mean vs run
χ² / ndf 47.23 / 49
p0 620.1 ± 1882
pull
Entries 50
Mean 148.2
Std Dev 126.9

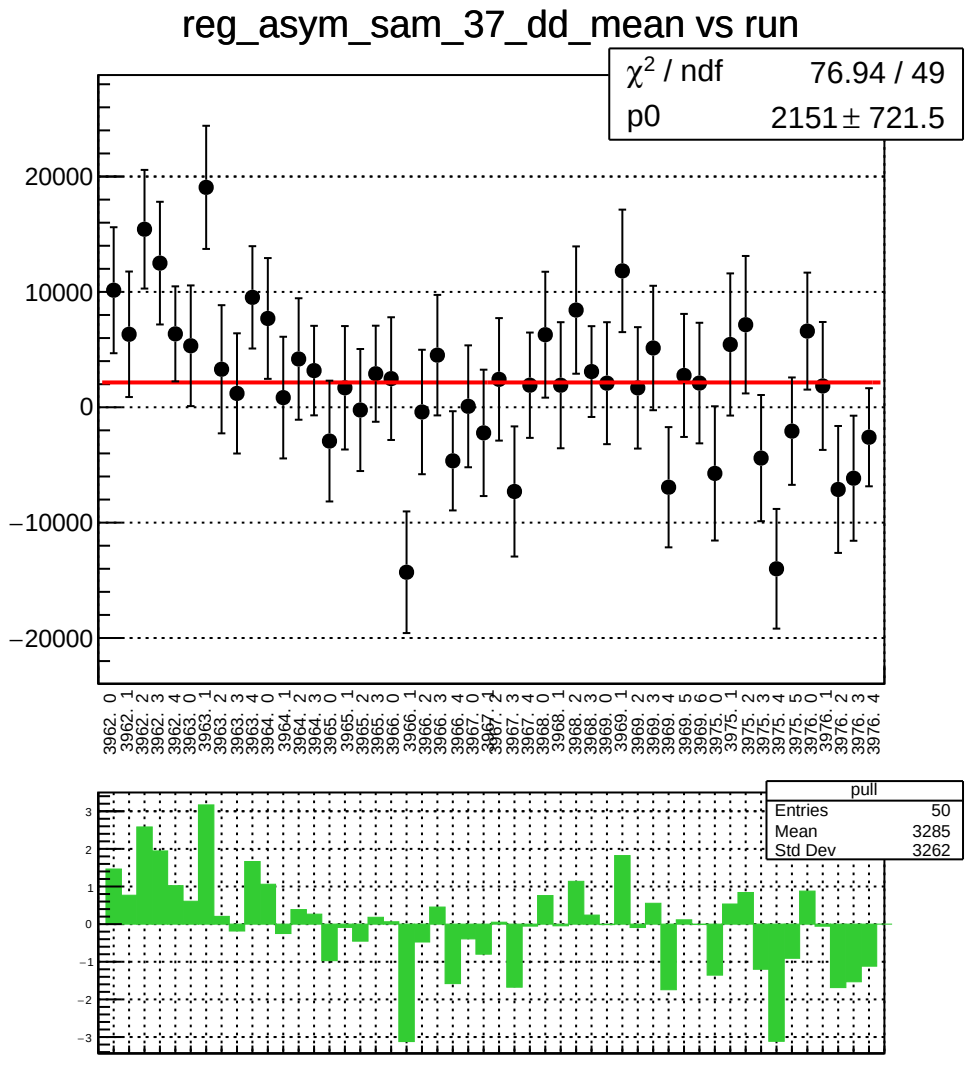

pull1D
Entries 50
Mean −0.01909
Std Dev 0.9717

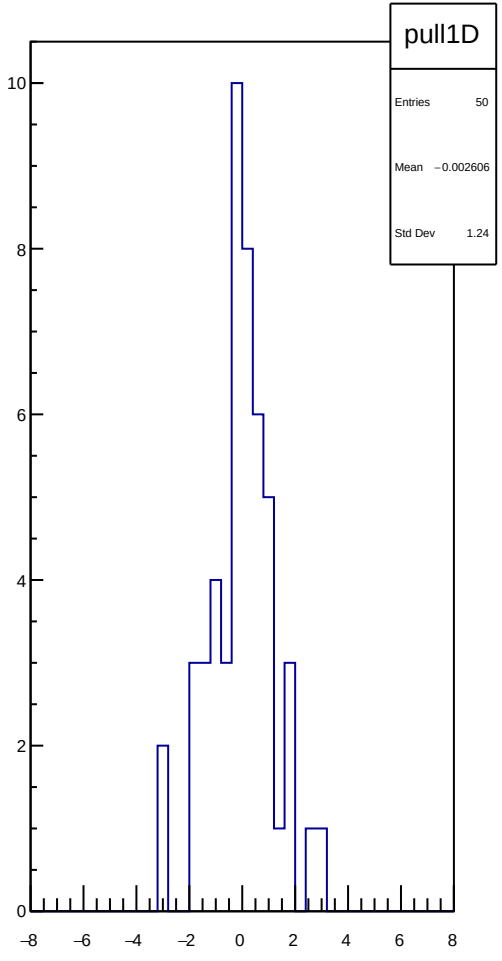

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1010 / 49
p0 1325 ± 1.33
1450
1400
1350
1300
1250
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

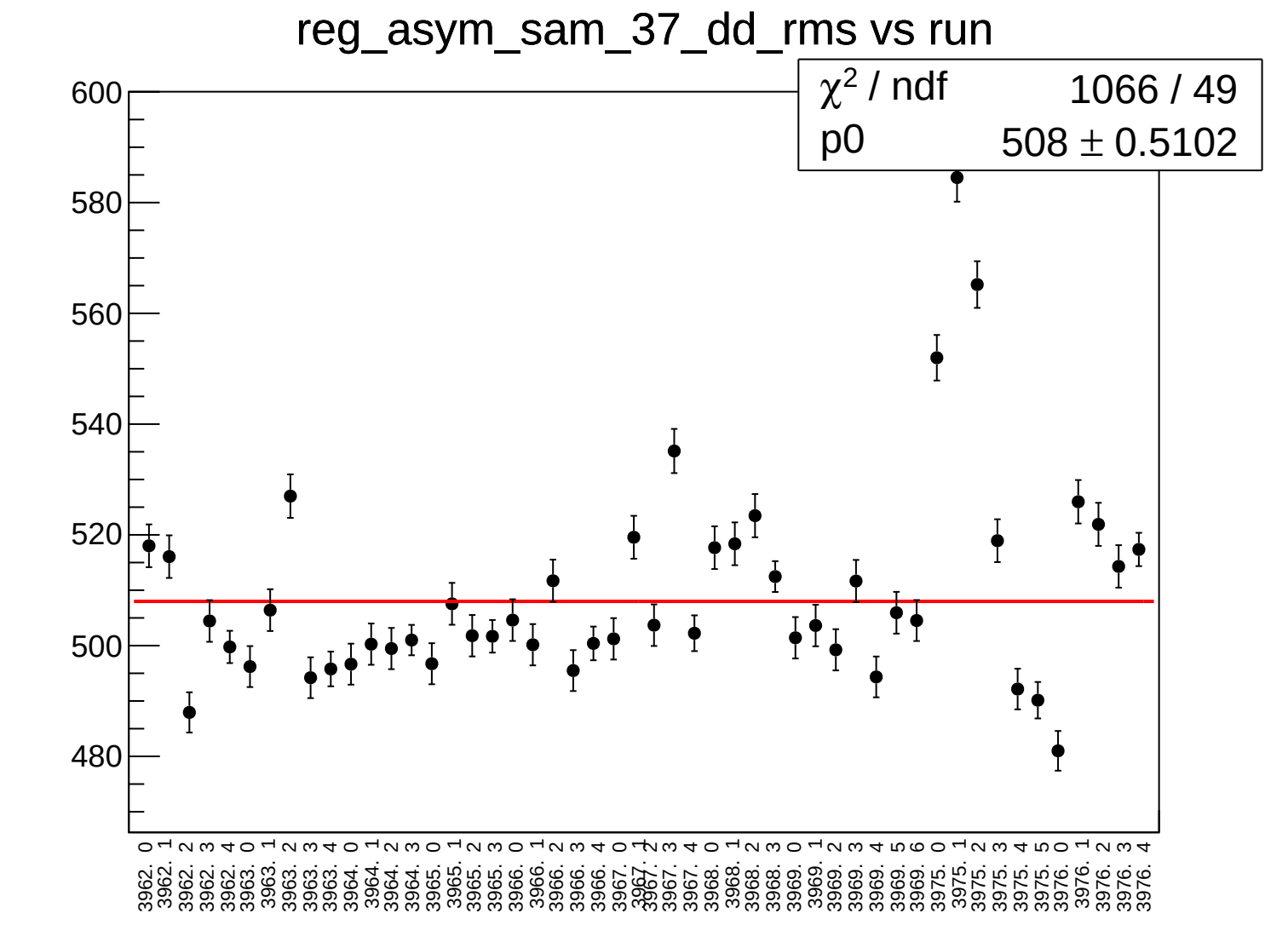

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 39.59 / 49
p0 2.251e+04 ± 7609
pull
Entries 50
Mean 143.1
Std Dev 119.3

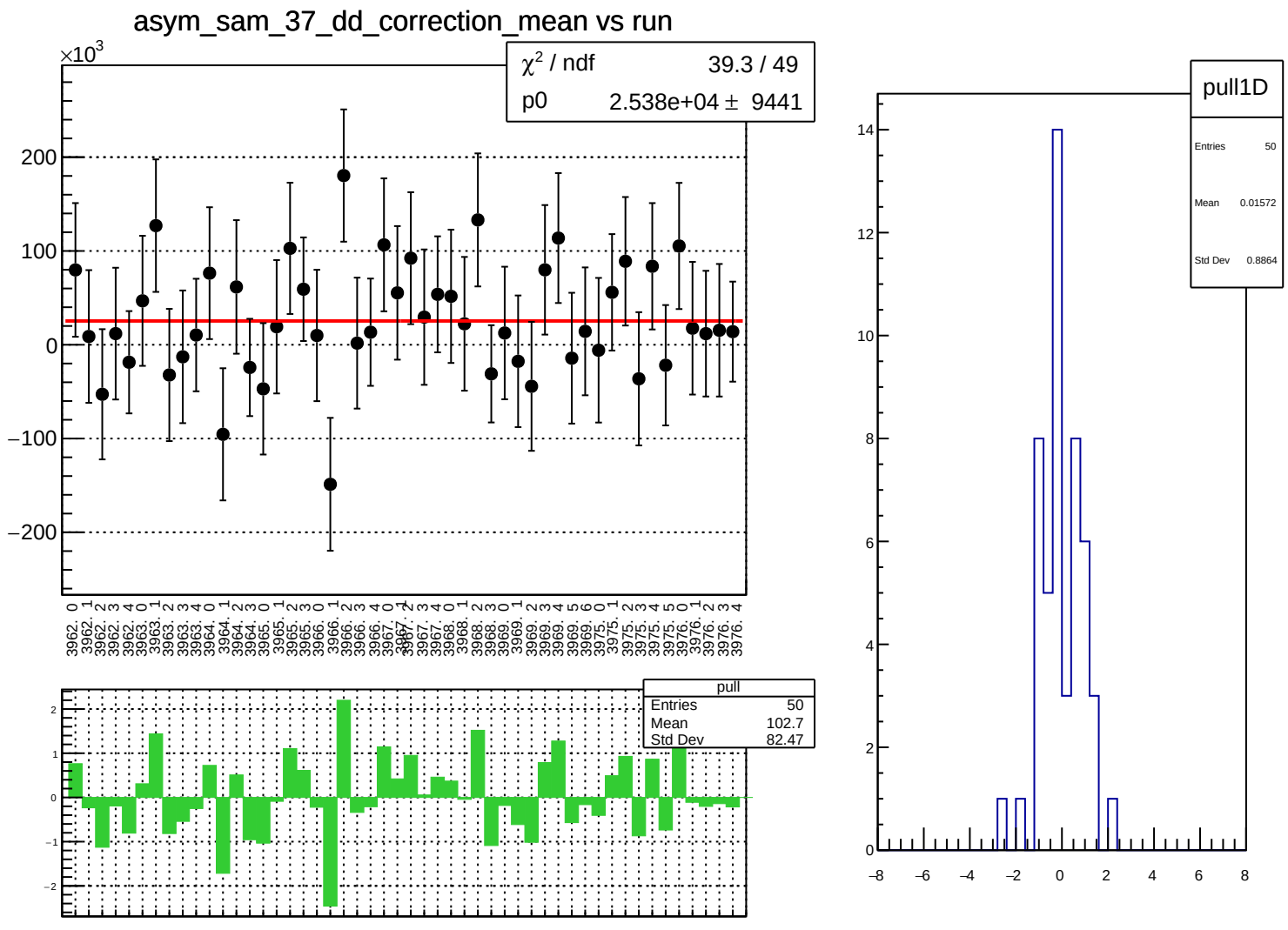

pull1D
Entries 50
Mean 0.01425
Std Dev 0.8897

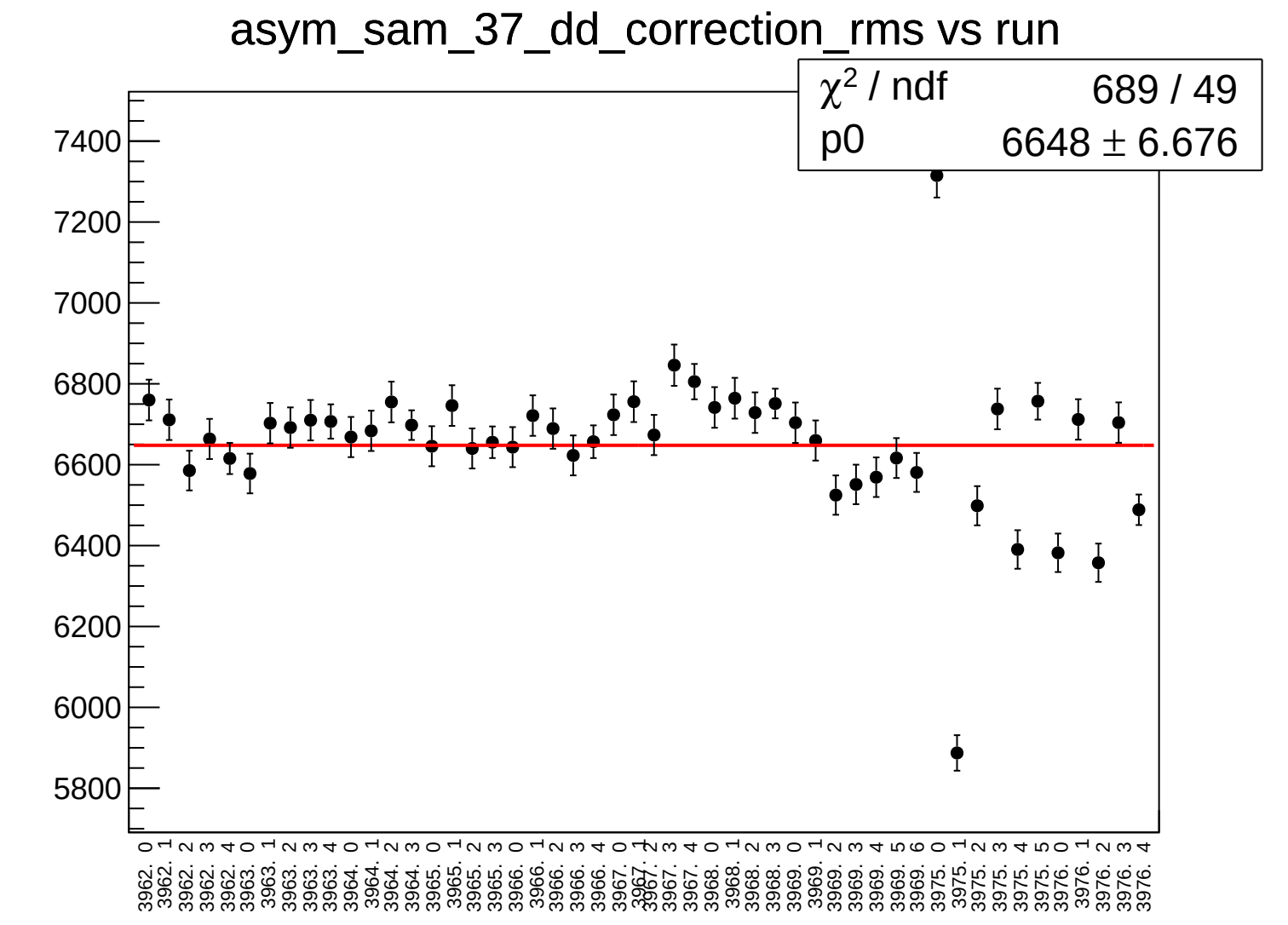

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1478 / 49
p0 5356 ± 5.381
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

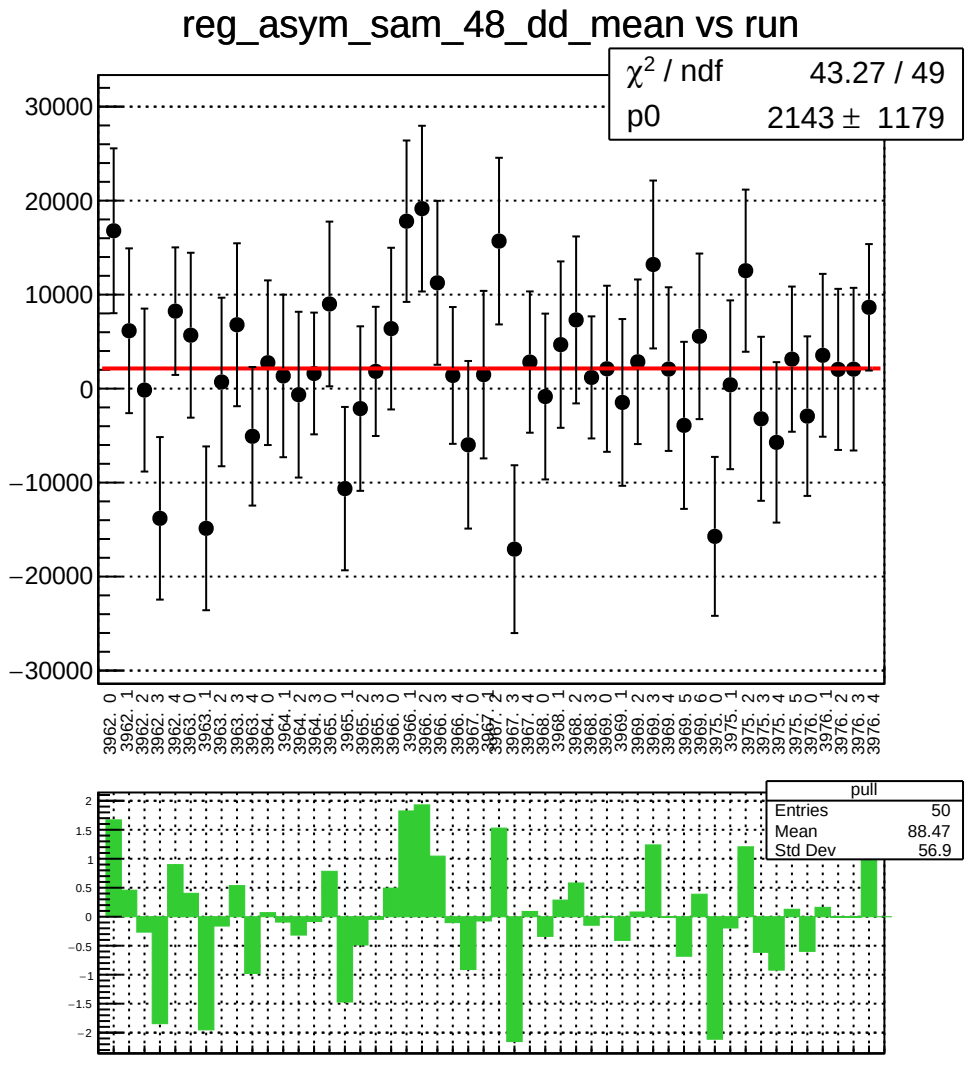

reg_asym_sam_37_dd_mean vs run
χ² / ndf 76.94 / 49
p0 2151 ± 721.5
20000
10000
0
−10000
−20000
pull
Entries 50
Mean 3285
Std Dev 3262
3
2
1
0
−1
−2
−3

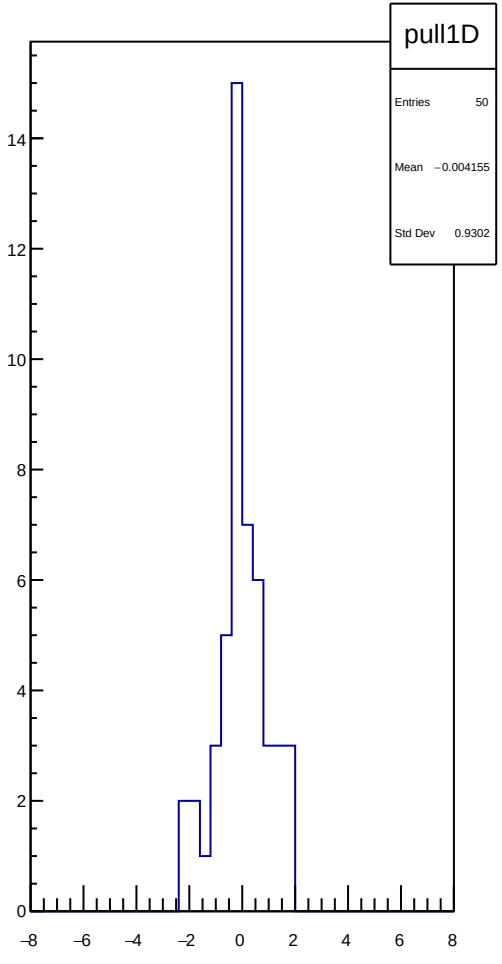

pull1D
Entries 50
Mean −0.002606
Std Dev 1.24
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

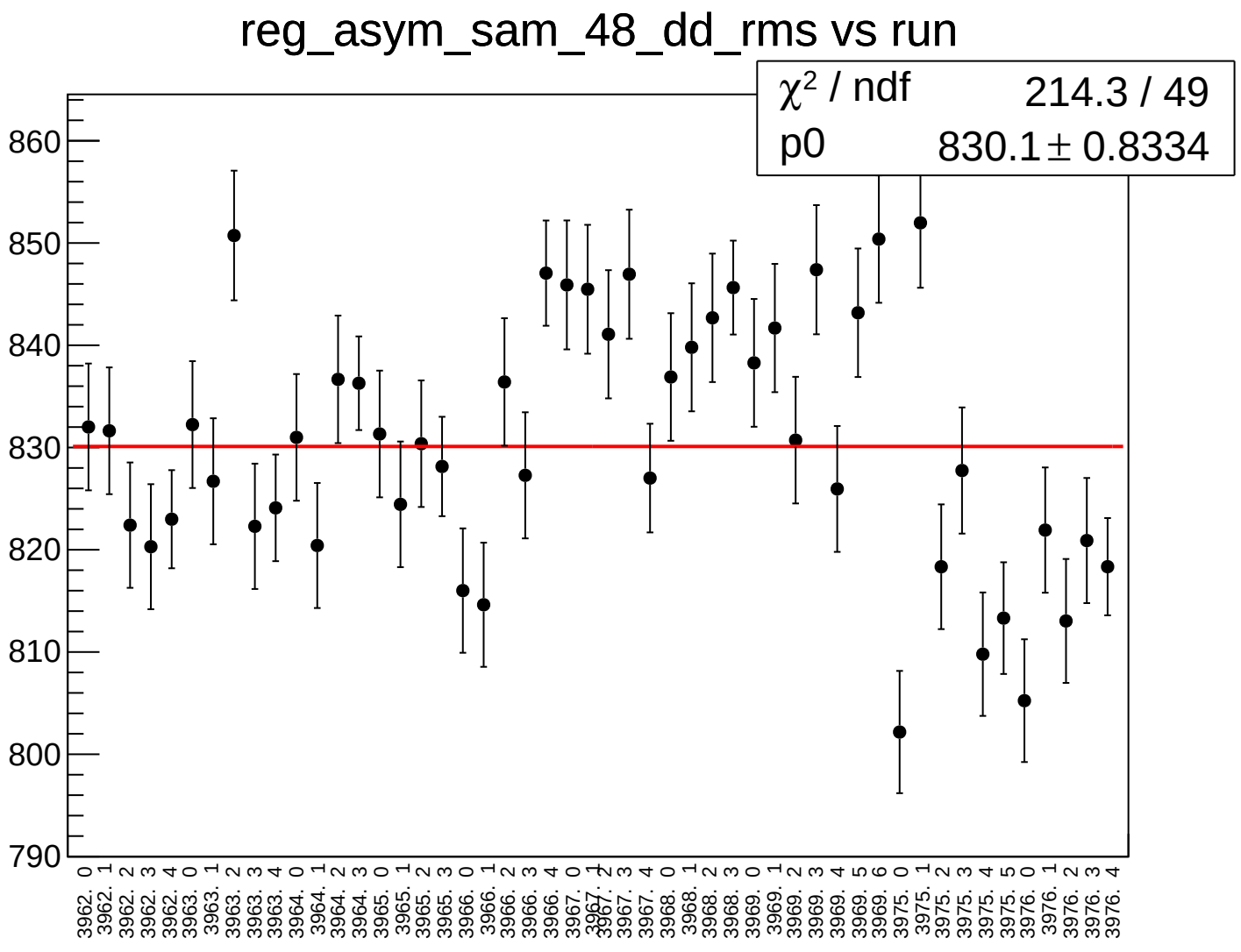

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1066 / 49
p0 508 ± 0.5102
600
580
560
540
520
500
480
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

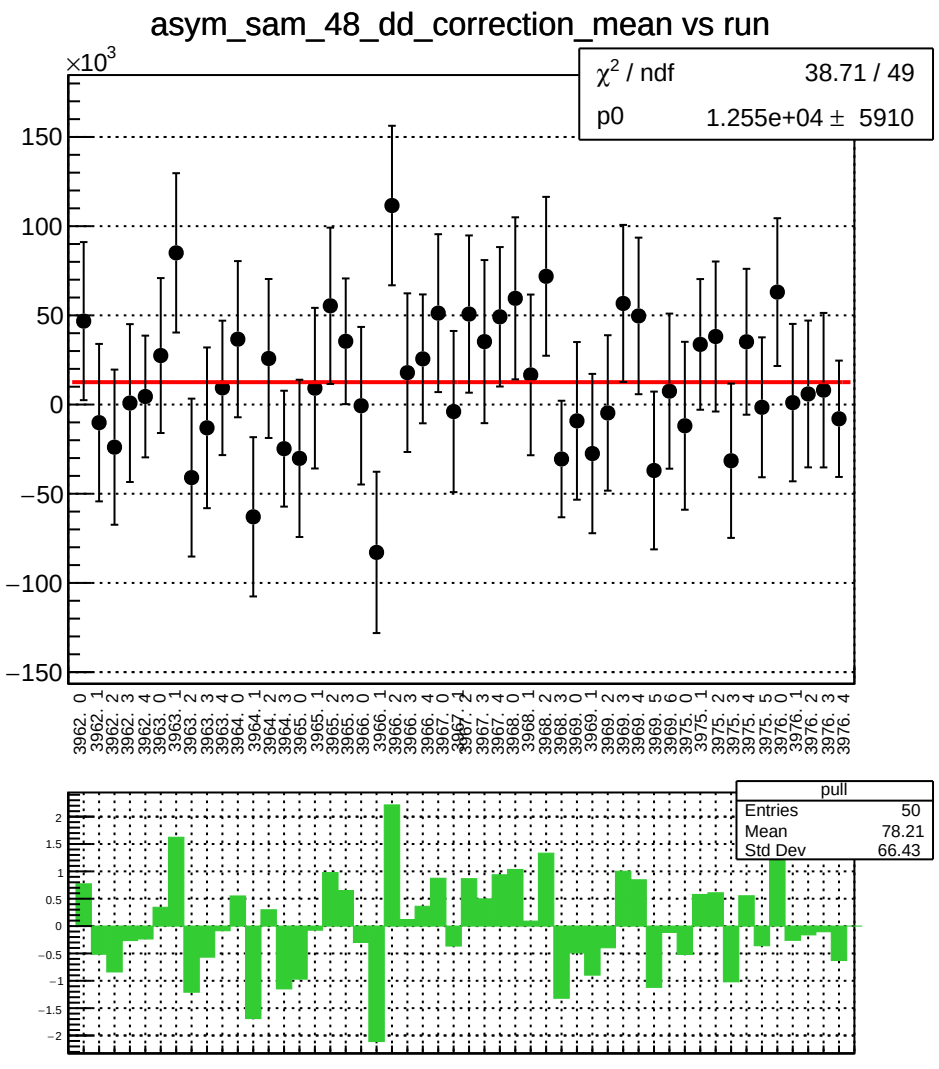

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 39.3 / 49
p0 2.538e+04 ± 9441
200
100
0
−100
−200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 102.7
Std Dev 82.47
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.01572
Std Dev 0.8864
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

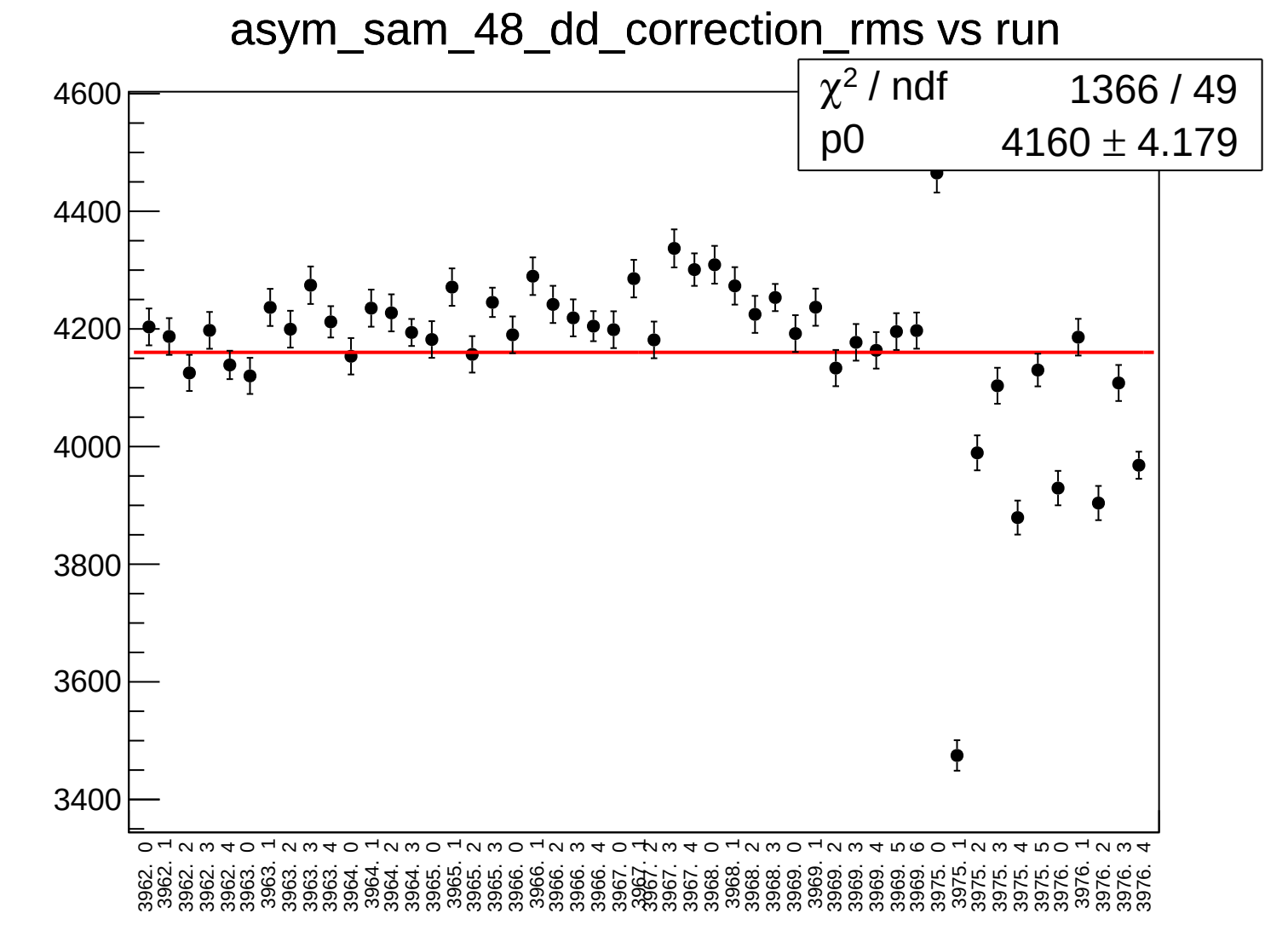

asym_sam_37_dd_correction_rms vs run
χ² / ndf 689 / 49
p0 6648 ± 6.676
7400
7200
7000
6800
6600
6400
6200
6000
5800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

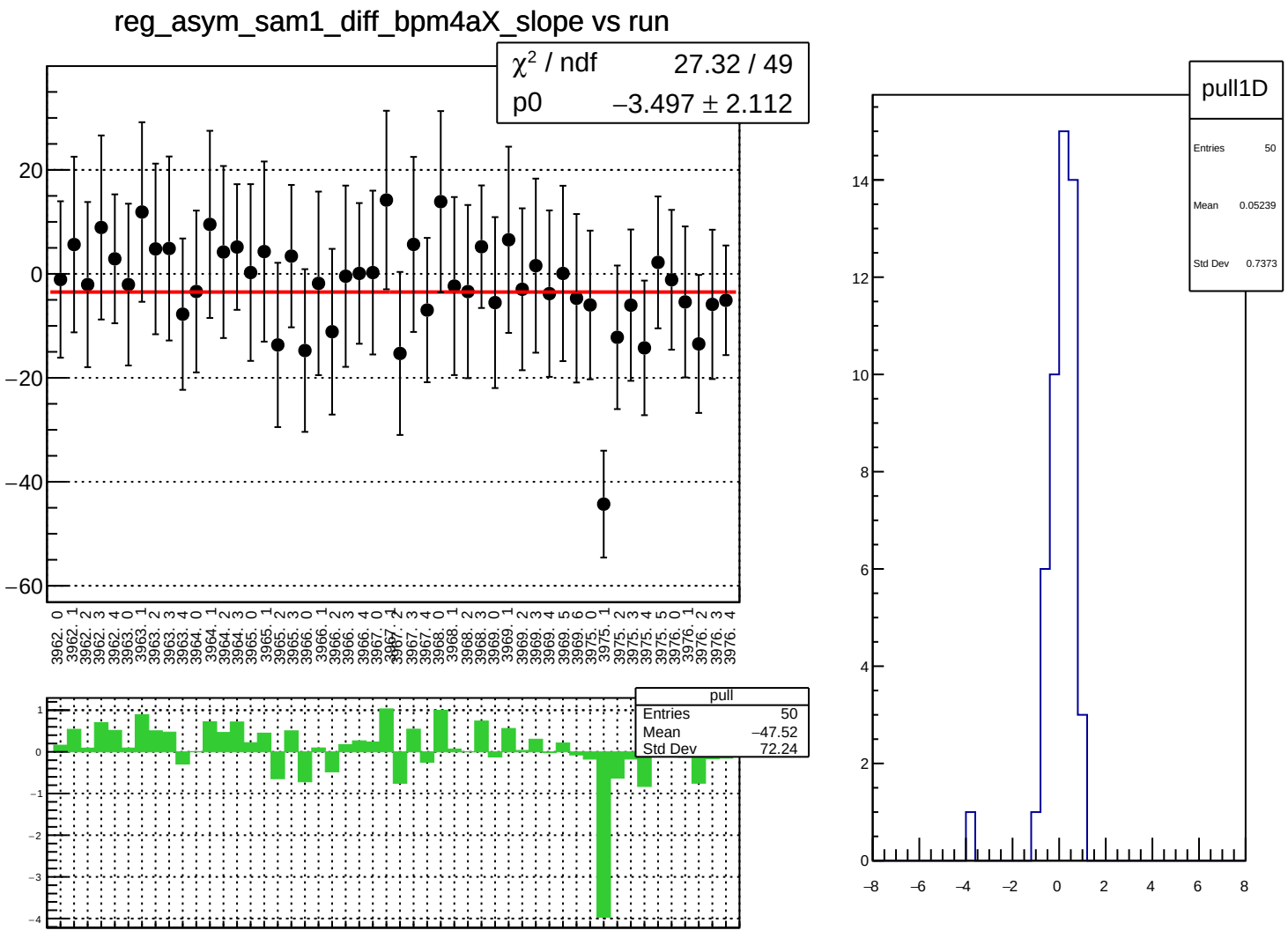

reg_asym_sam_48_dd_mean vs run
χ² / ndf 43.27 / 49
p0 2143 ± 1179
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 50
Mean 88.47
Std Dev 56.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

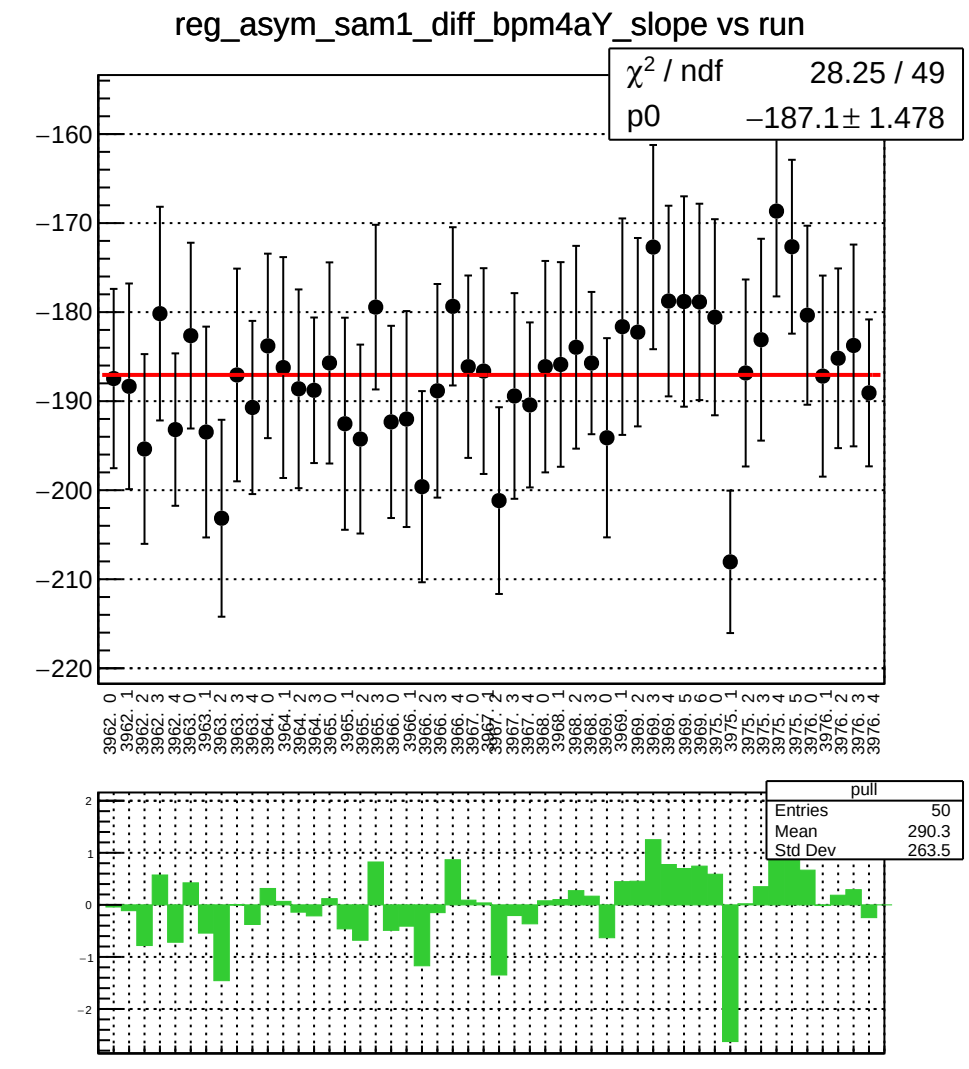

pull1D
Entries 50
Mean −0.004155
Std Dev 0.9302
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

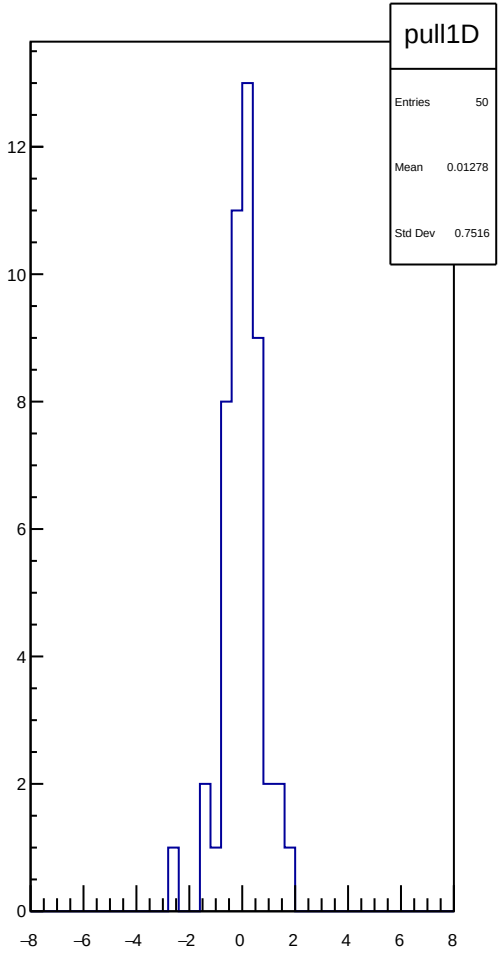

reg_asym_sam_48_dd_rms vs run
χ² / ndf 214.3 / 49
p0 830.1 ± 0.8334
860
850
840
830
820
810
800
790
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

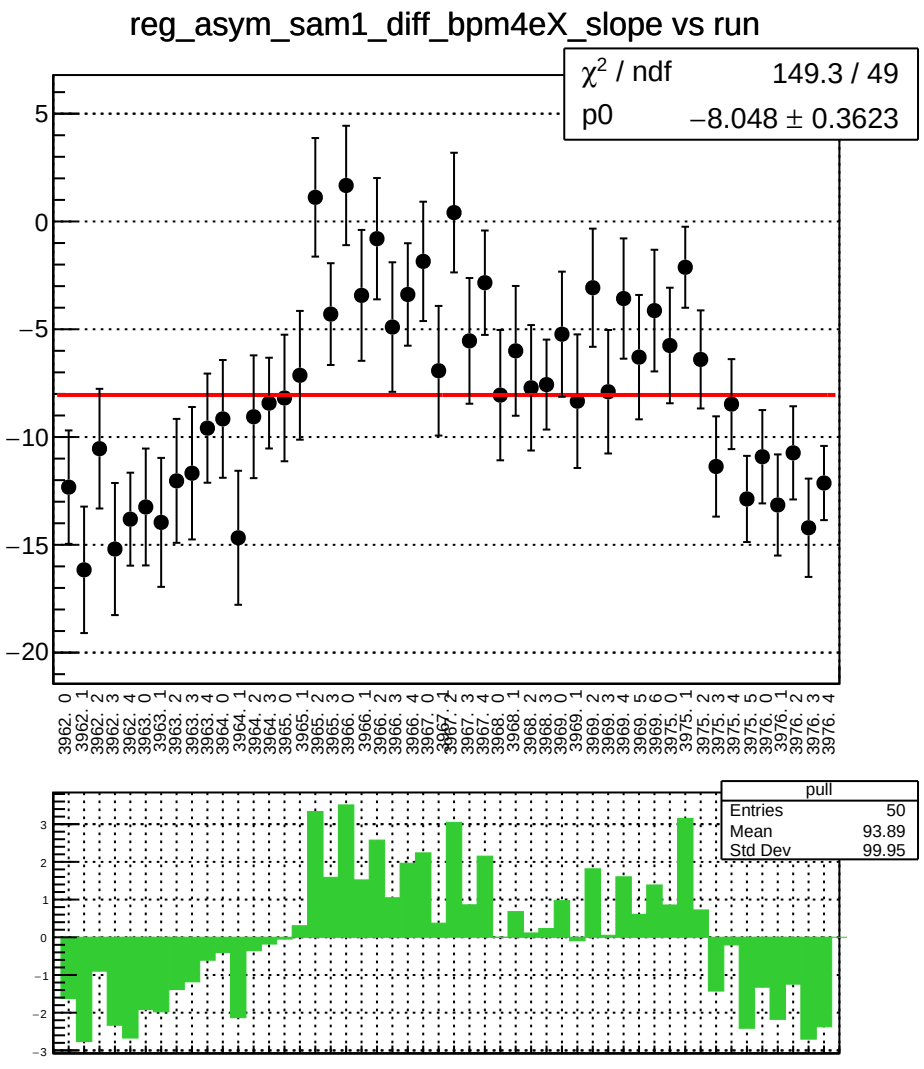

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 38.71 / 49
p0 1.255e+04 ± 5910
150
100
50
0
−50
−100
−150
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 78.21
Std Dev 66.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.01186
Std Dev 0.8798
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

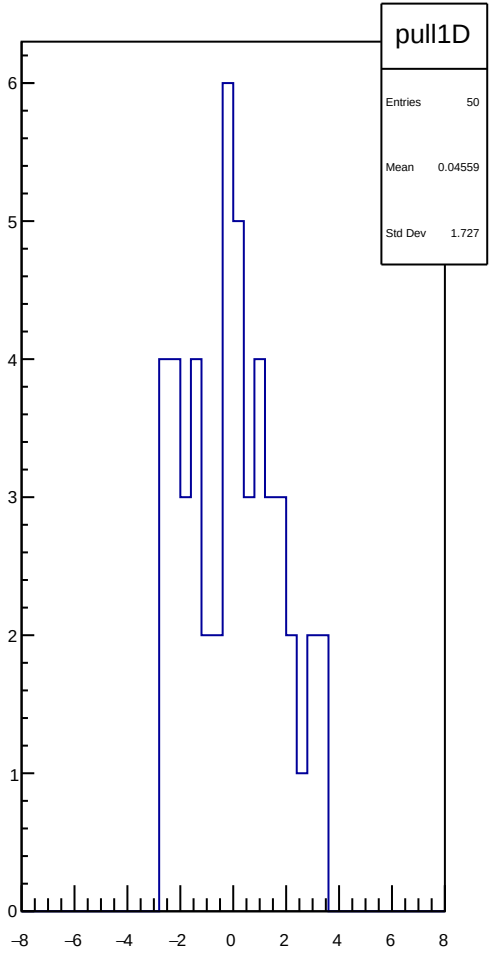

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1366 / 49
p0 4160 ± 4.179
4600
4400
4200
4000
3800
3600
3400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

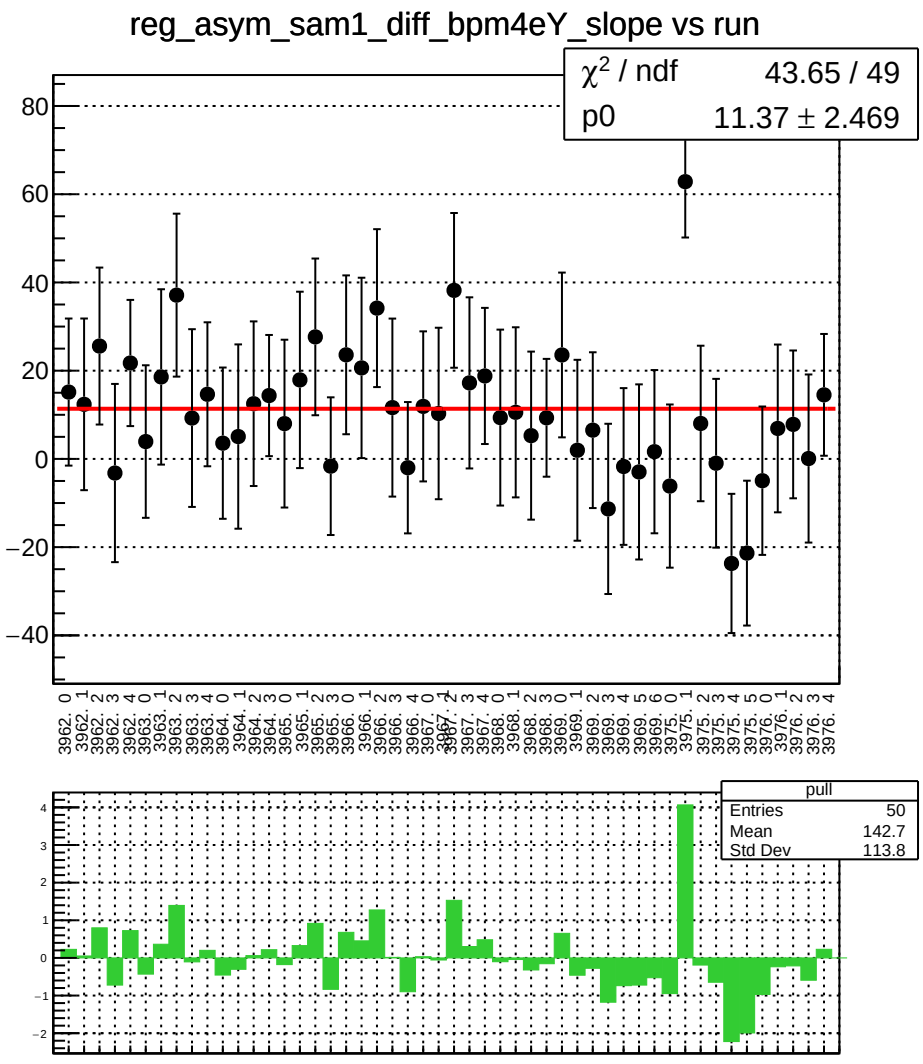

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 27.32 / 49
p0 −3.497 ± 2.112
pull
Entries 50
Mean −47.52
Std Dev 72.24
pull1D
Entries 50
Mean 0.05239
Std Dev 0.7373

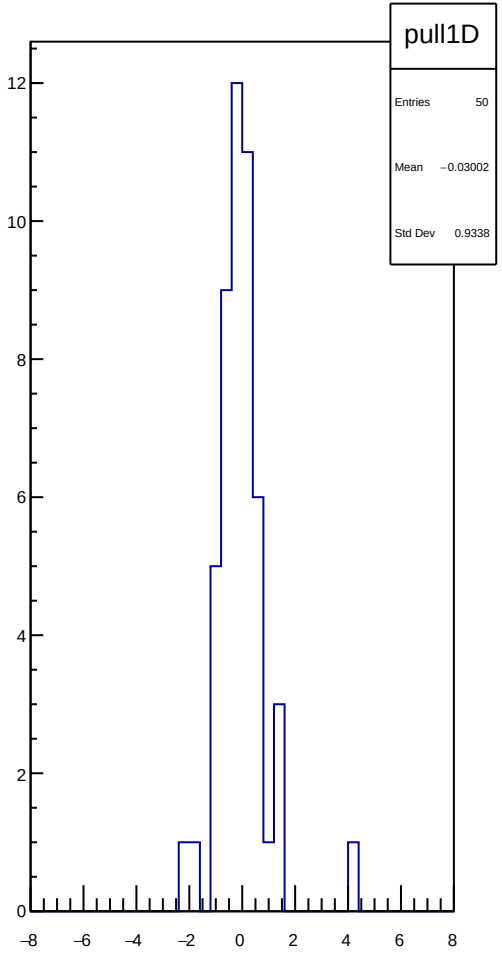

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 28.25 / 49
p0 −187.1± 1.478
pull
Entries 50
Mean 290.3
Std Dev 263.5

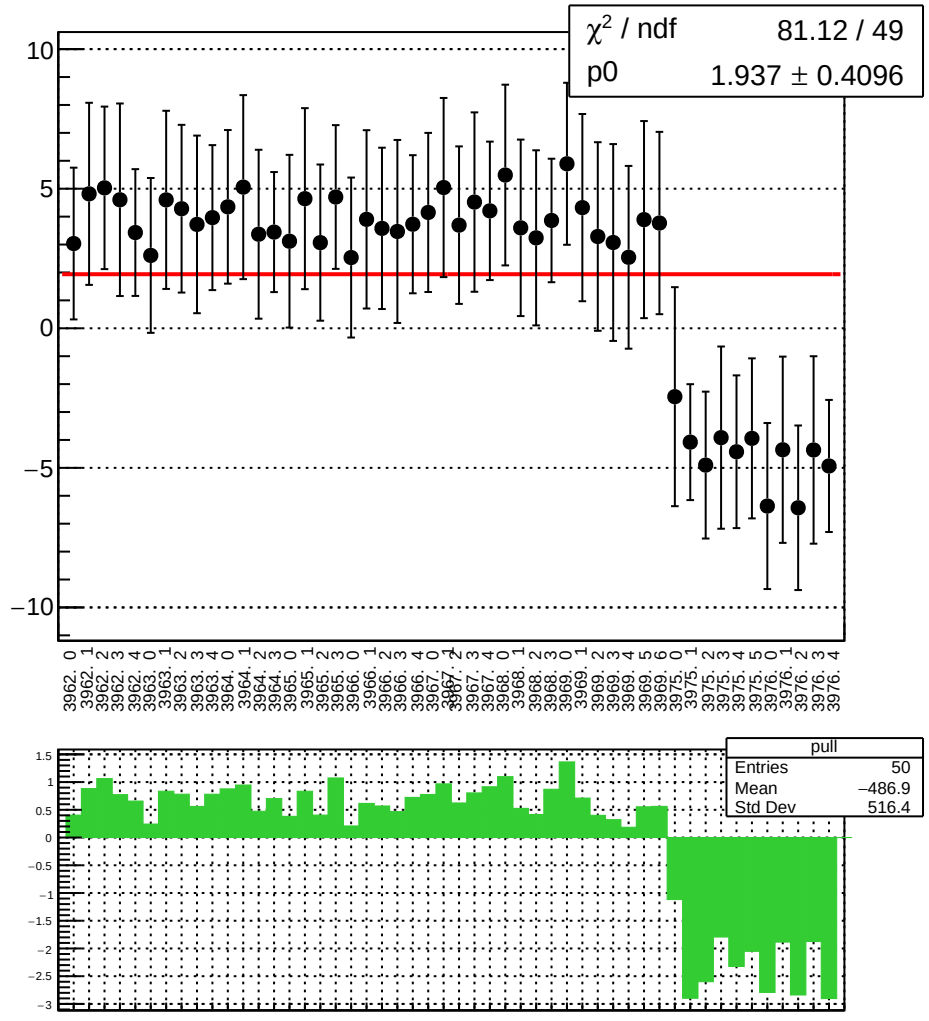

pull1D
Entries 50
Mean 0.01278
Std Dev 0.7516

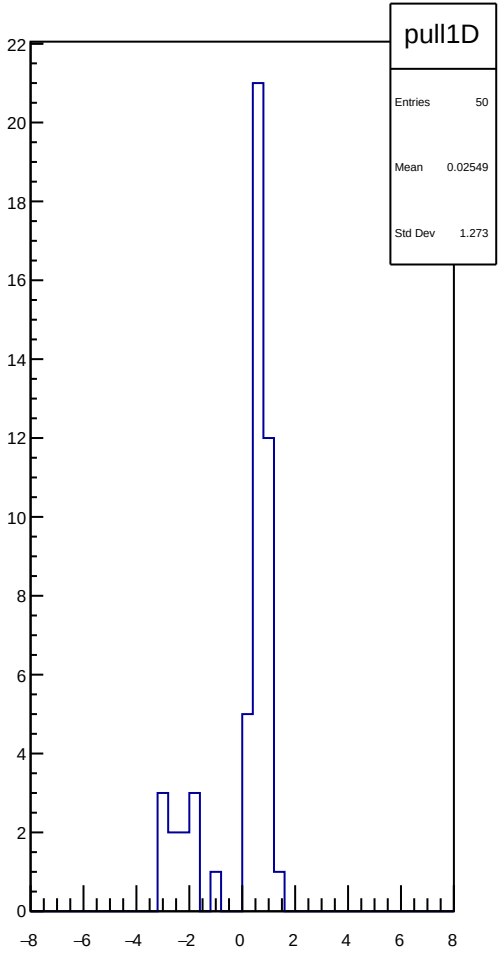

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 149.3 / 49
p0 −8.048 ± 0.3623
pull
Entries 50
Mean 93.89
Std Dev 99.95

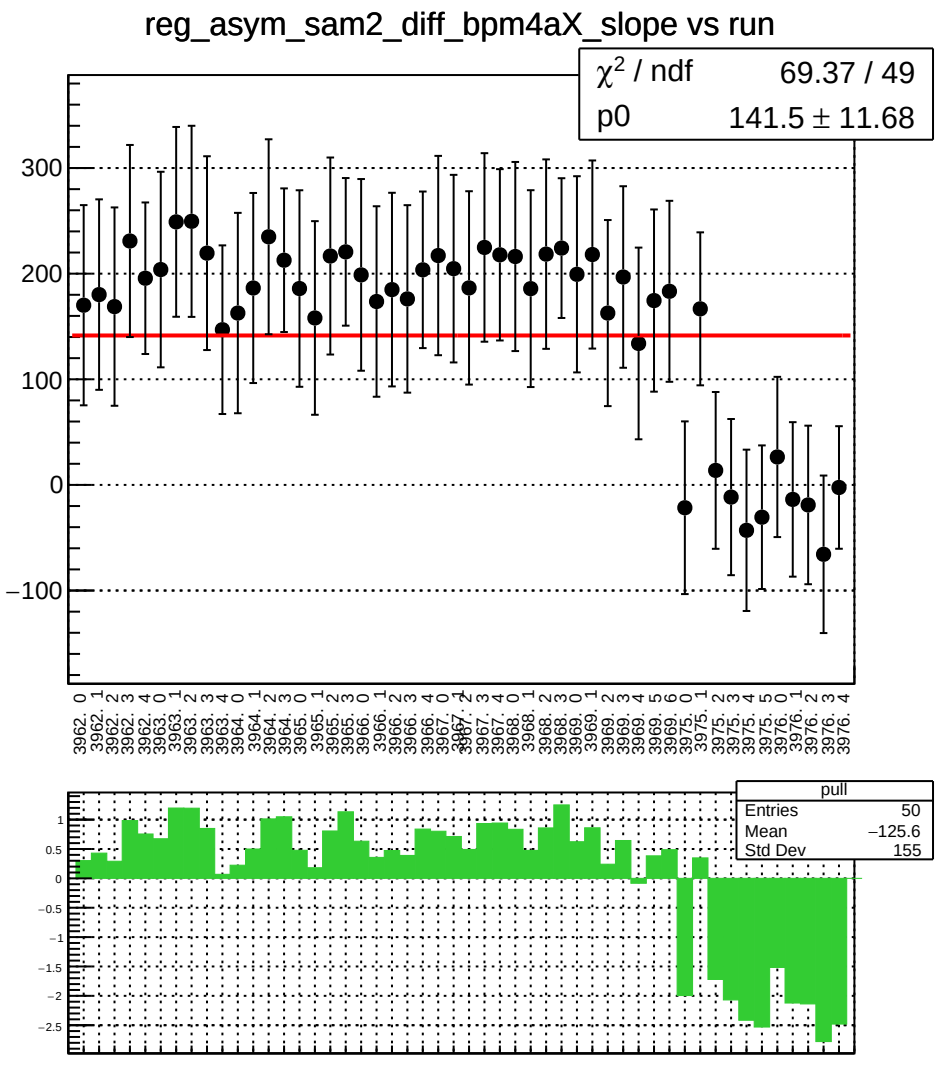

pull1D
Entries 50
Mean 0.04559
Std Dev 1.727

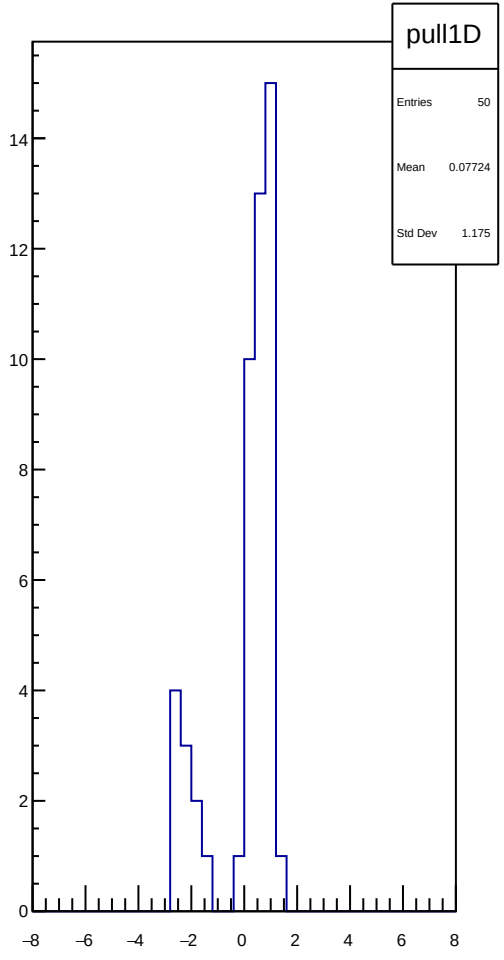

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 43.65 / 49
p0 11.37 ± 2.469
pull
Entries 50
Mean 142.7
Std Dev 113.8

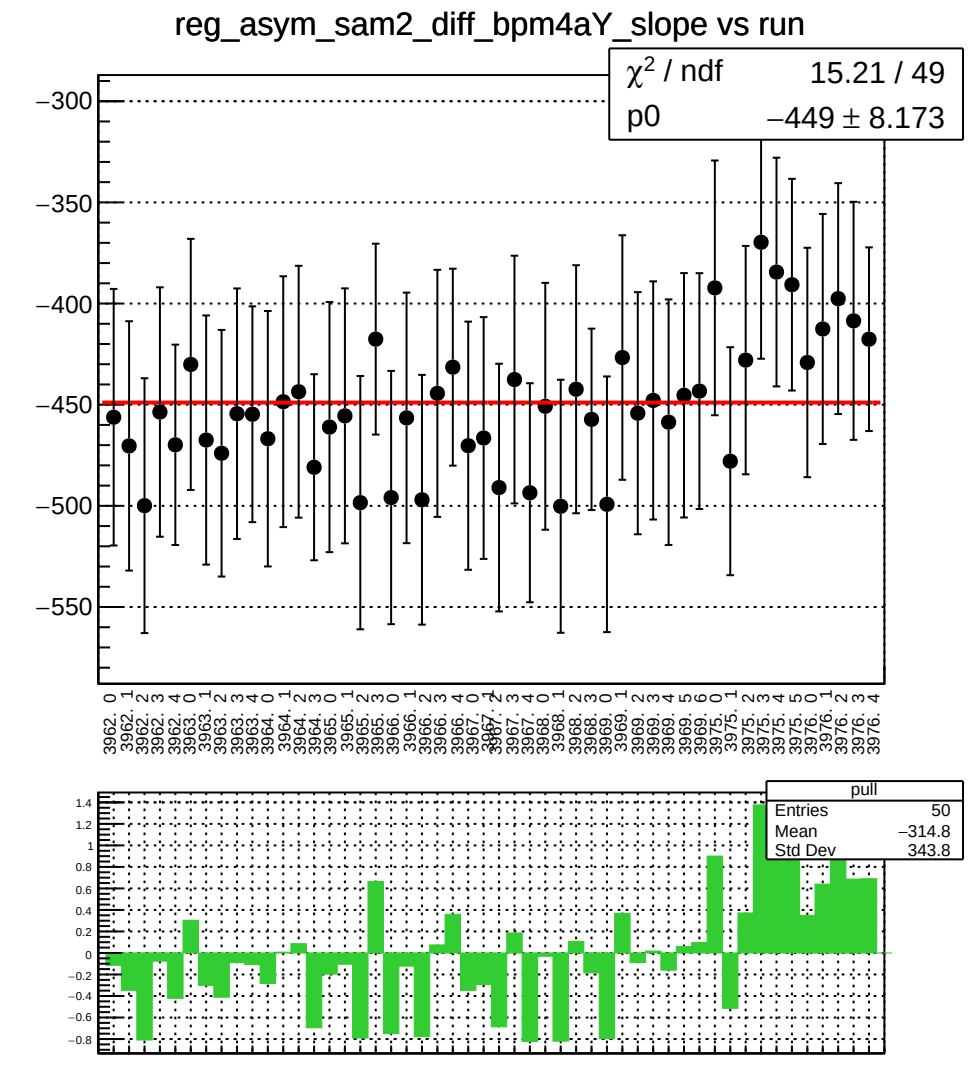

pull1D
Entries 50
Mean −0.03002
Std Dev 0.9338

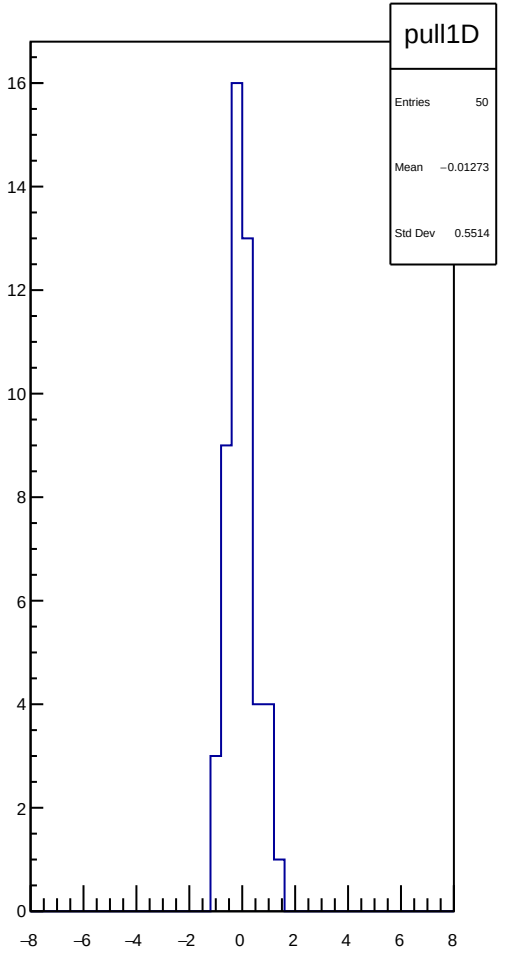

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 81.12 / 49
p0 1.937 ± 0.4096
pull
Entries 50
Mean −486.9
Std Dev 516.4

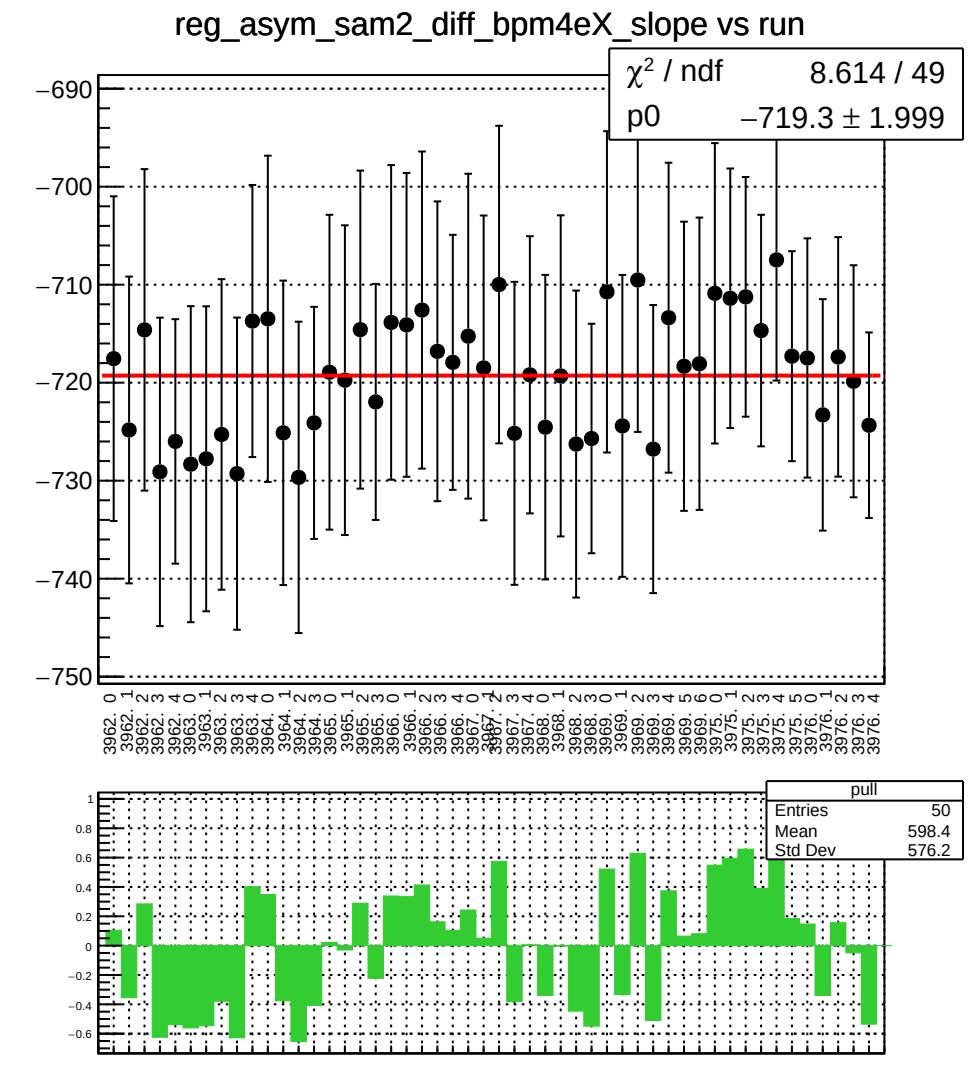

pull1D
Entries 50
Mean 0.02549
Std Dev 1.273

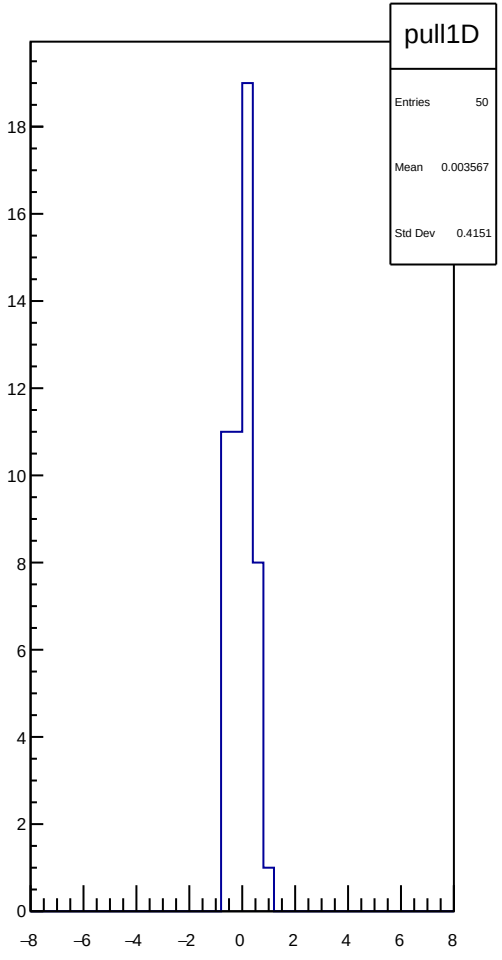

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 69.37 / 49
p0 141.5 ± 11.68
300
200
100
0
−100
pull
Entries 50
Mean −125.6
Std Dev 155
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

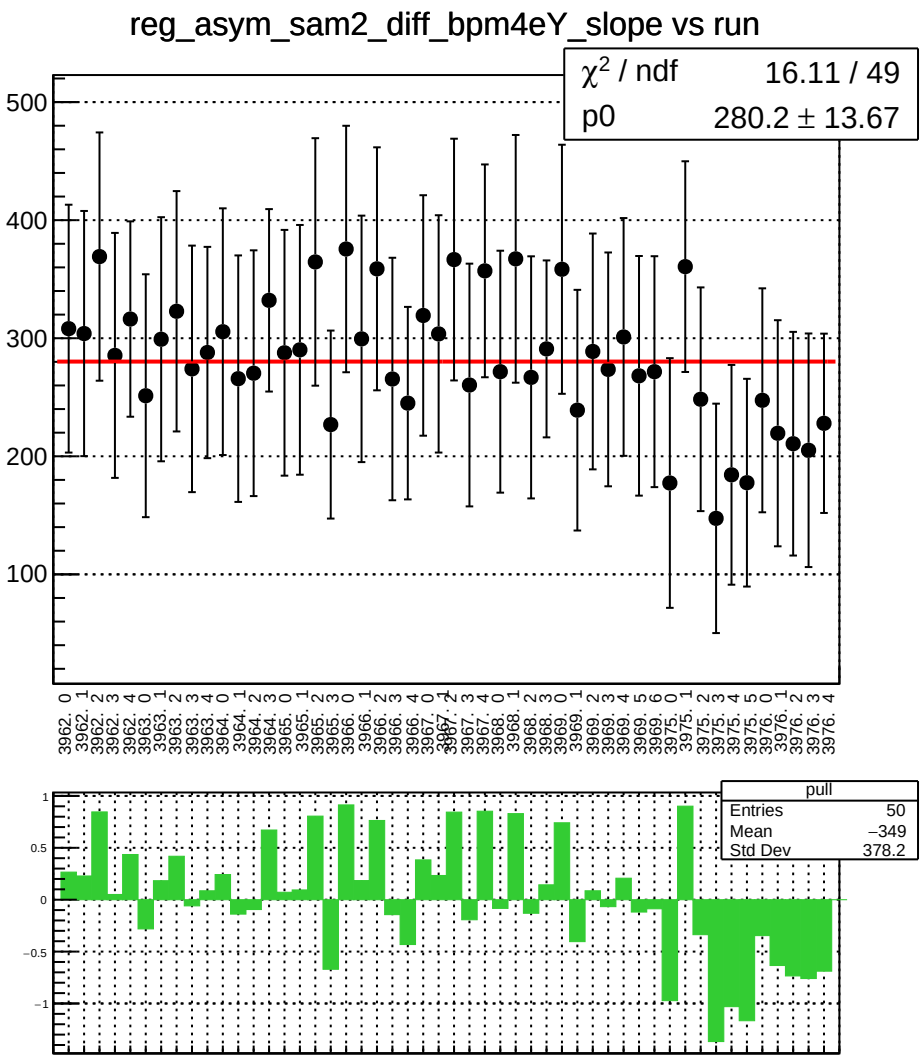

pull1D
Entries 50
Mean 0.07724
Std Dev 1.175
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

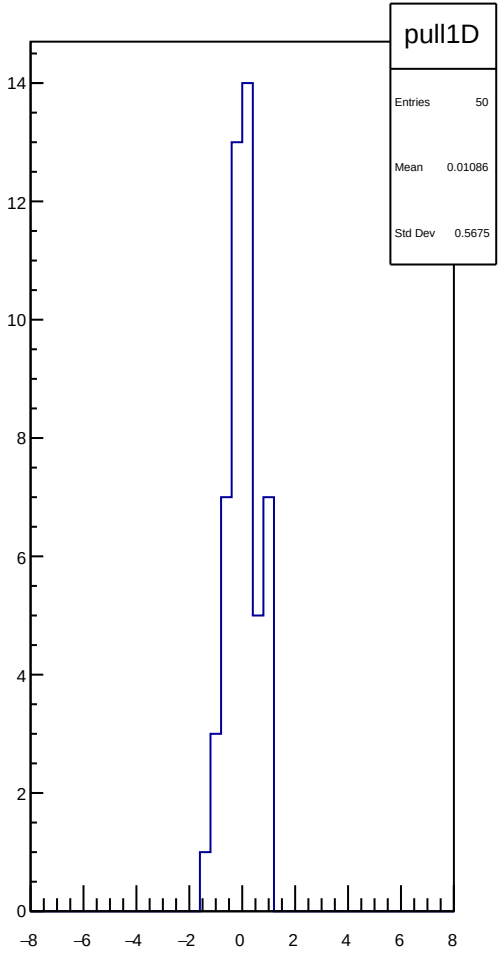

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 15.21 / 49
p0 −449 ± 8.173
−300
−350
−400
−450
−500
−550
pull
Entries 50
Mean −314.8
Std Dev 343.8
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

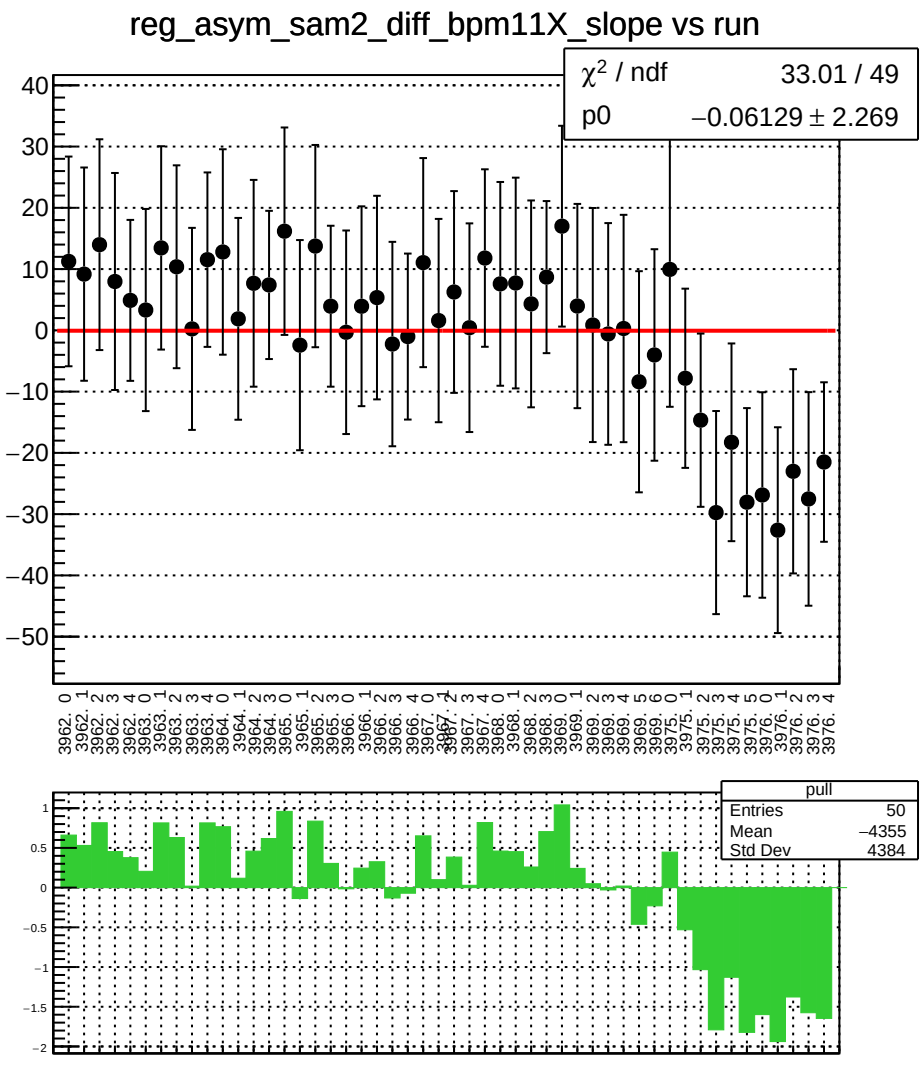

pull1D
Entries 50
Mean −0.01273
Std Dev 0.5514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

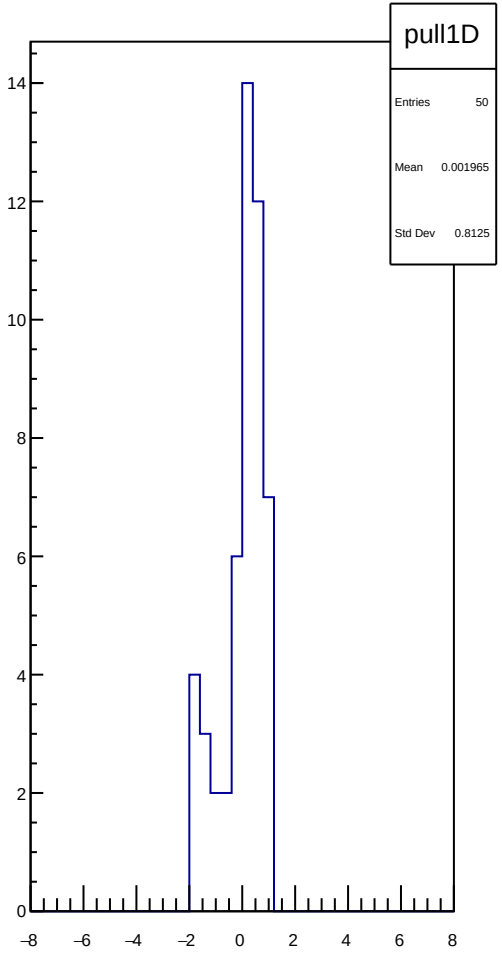

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 8.614 / 49
p0 −719.3 ± 1.999
pull
Entries 50
Mean 598.4
Std Dev 576.2

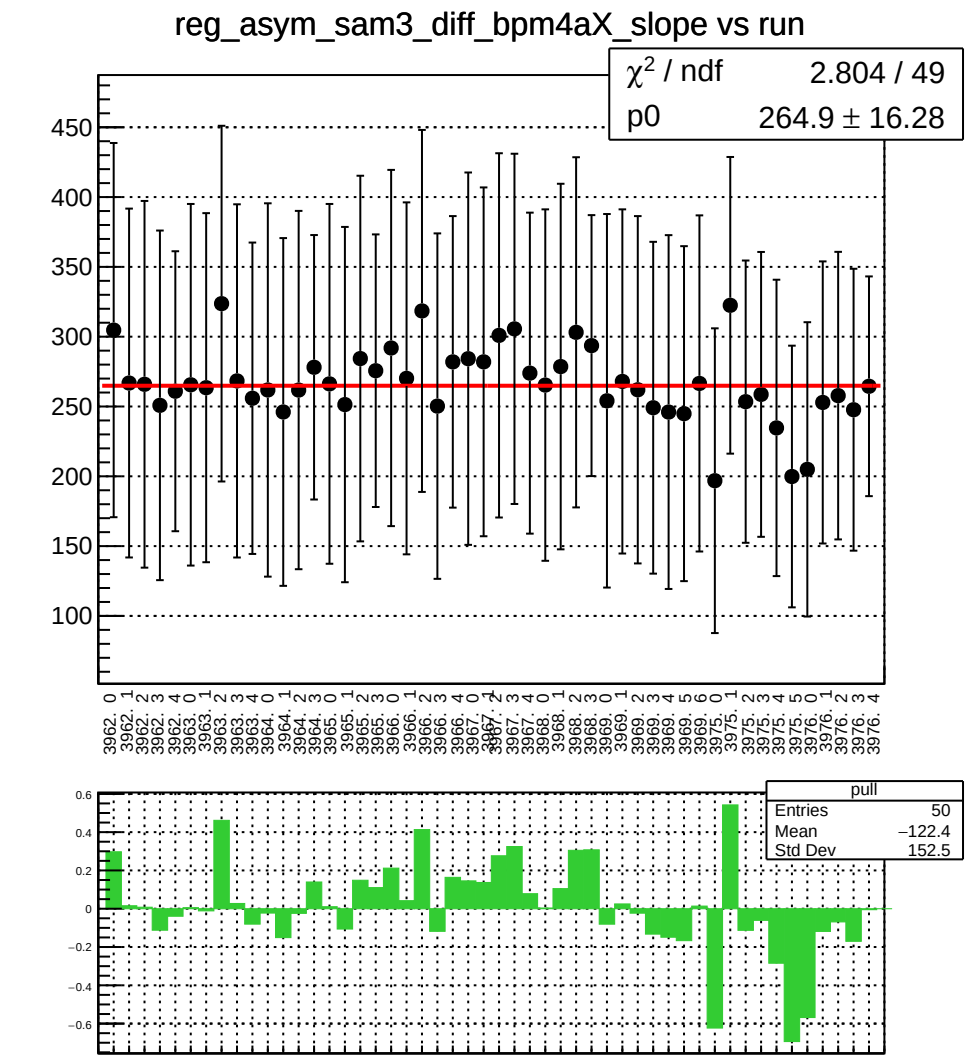

pull1D
Entries 50
Mean 0.003567
Std Dev 0.4151

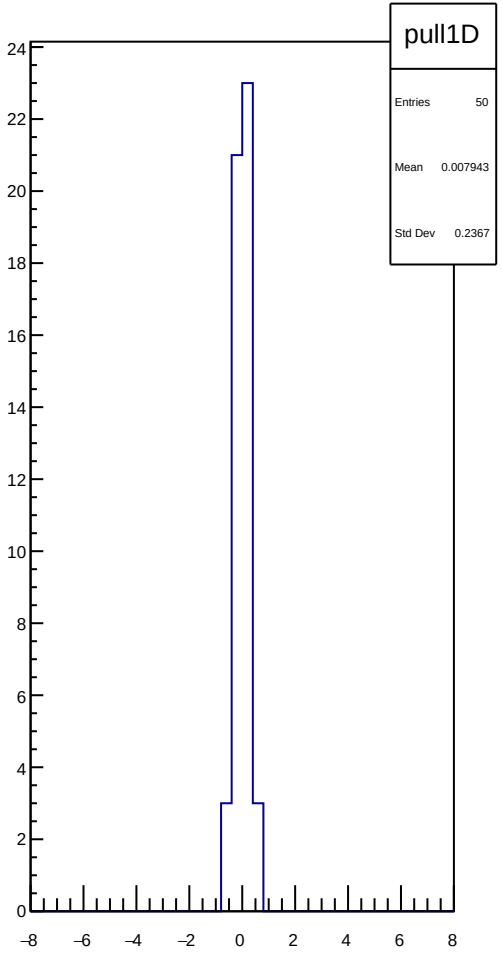

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 16.11 / 49
p0 280.2 ± 13.67
pull
Entries 50
Mean −349
Std Dev 378.2

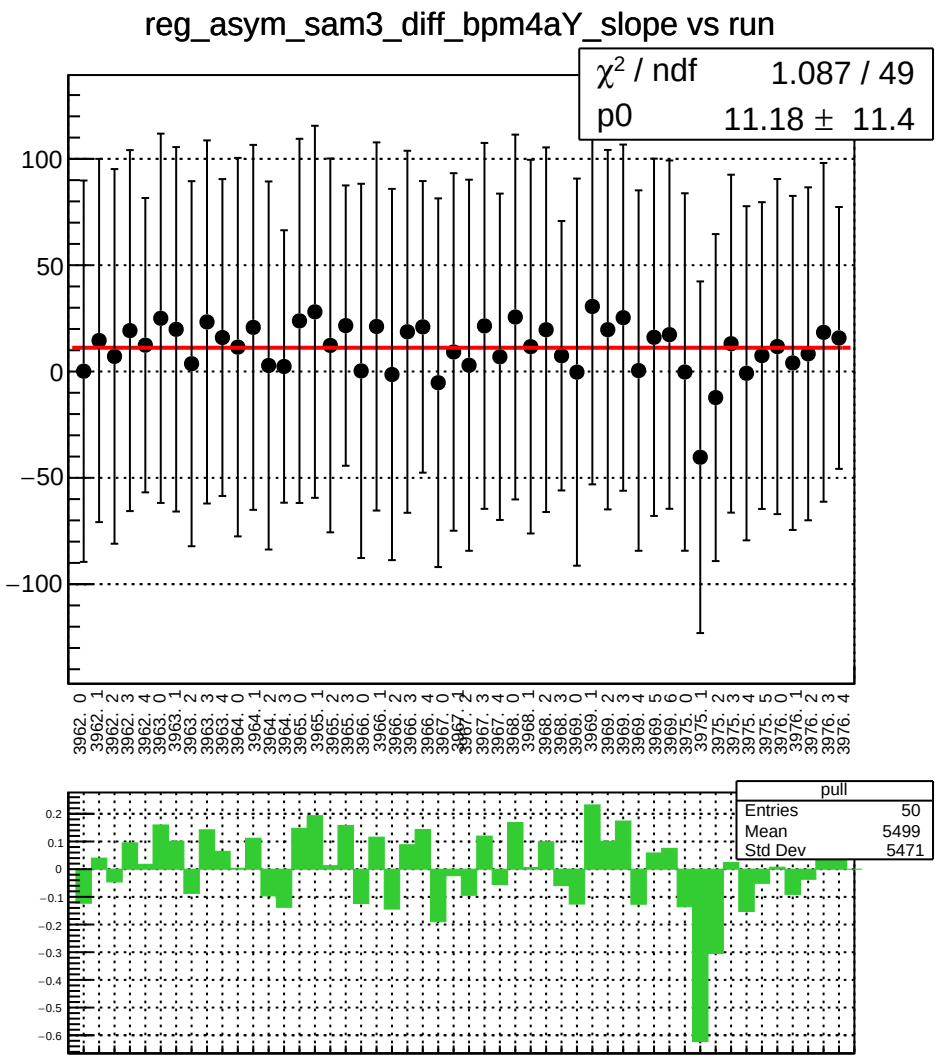

pull1D
Entries 50
Mean 0.01086
Std Dev 0.5675

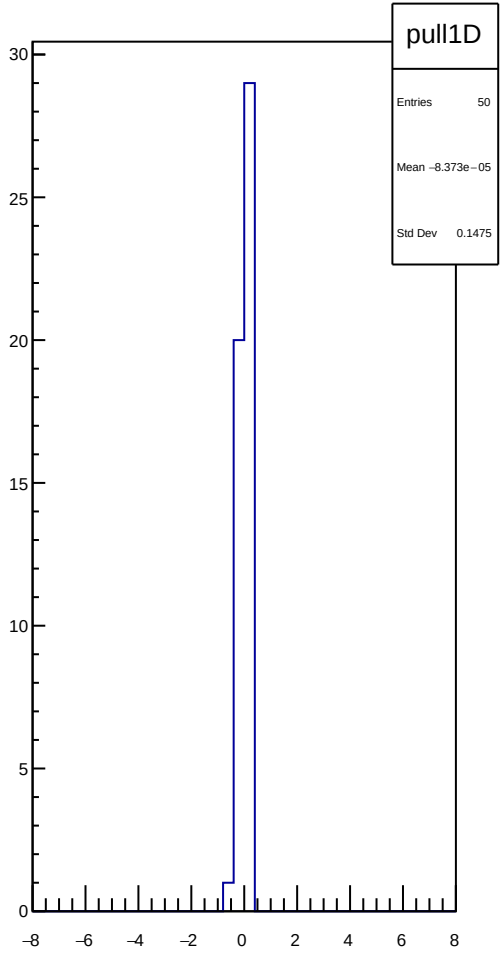

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 33.01 / 49
p0 −0.06129 ± 2.269
pull
Entries 50
Mean −4355
Std Dev 4384

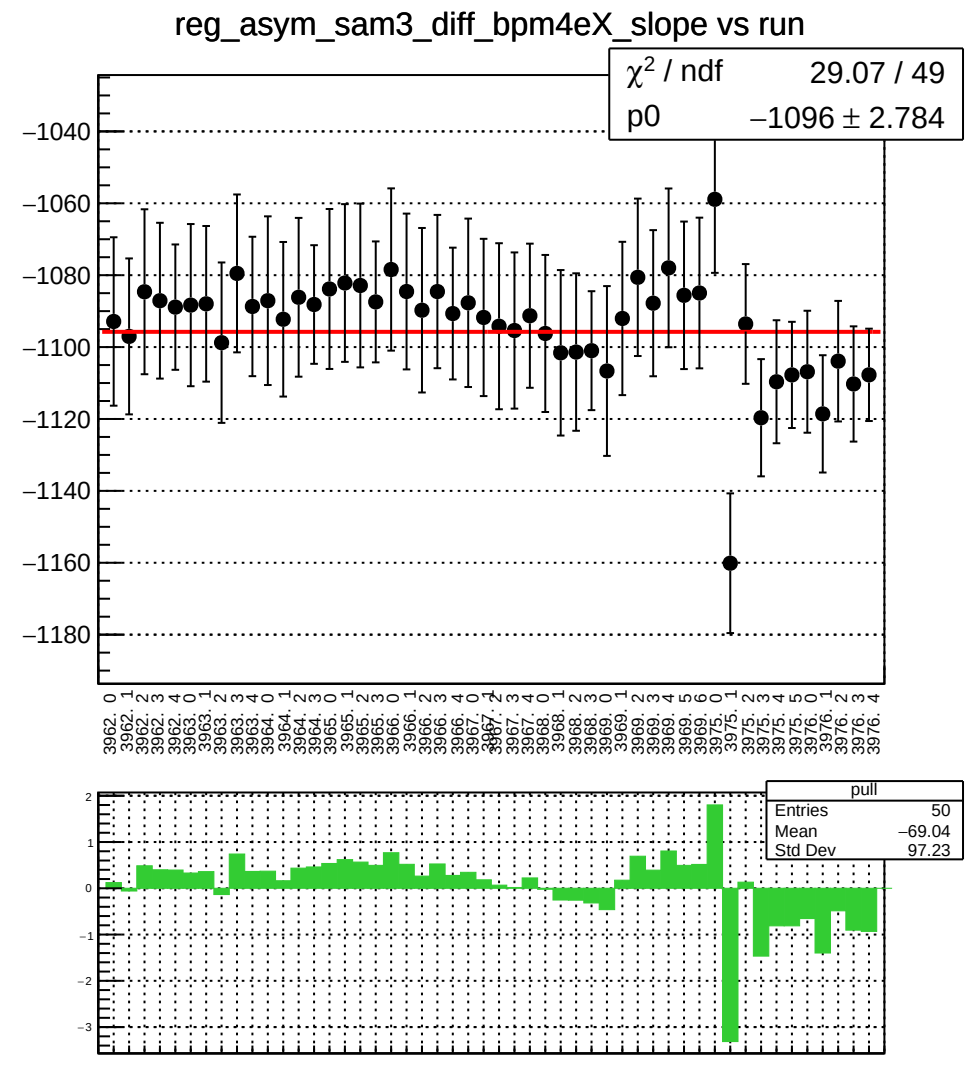

pull1D
Entries 50
Mean 0.001965
Std Dev 0.8125

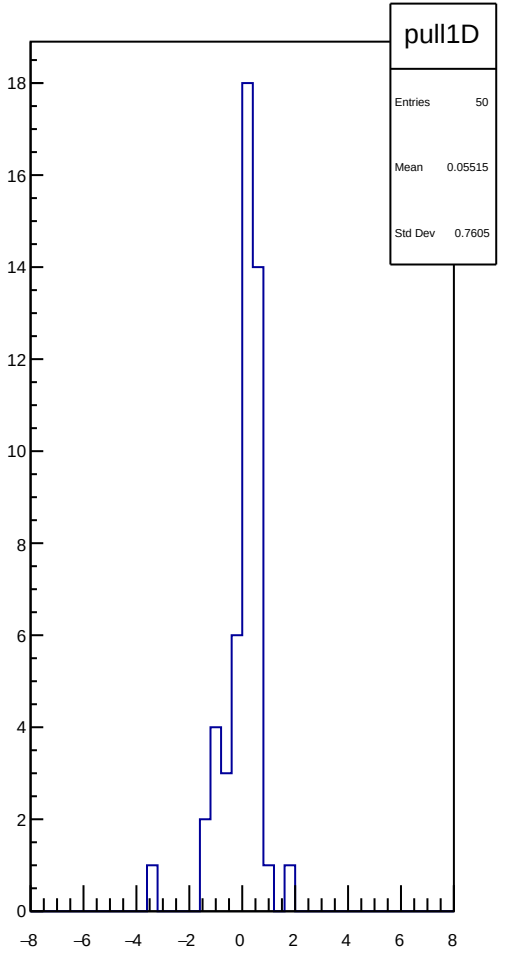

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 2.804 / 49
p0 264.9 ± 16.28
pull
Entries 50
Mean −122.4
Std Dev 152.5

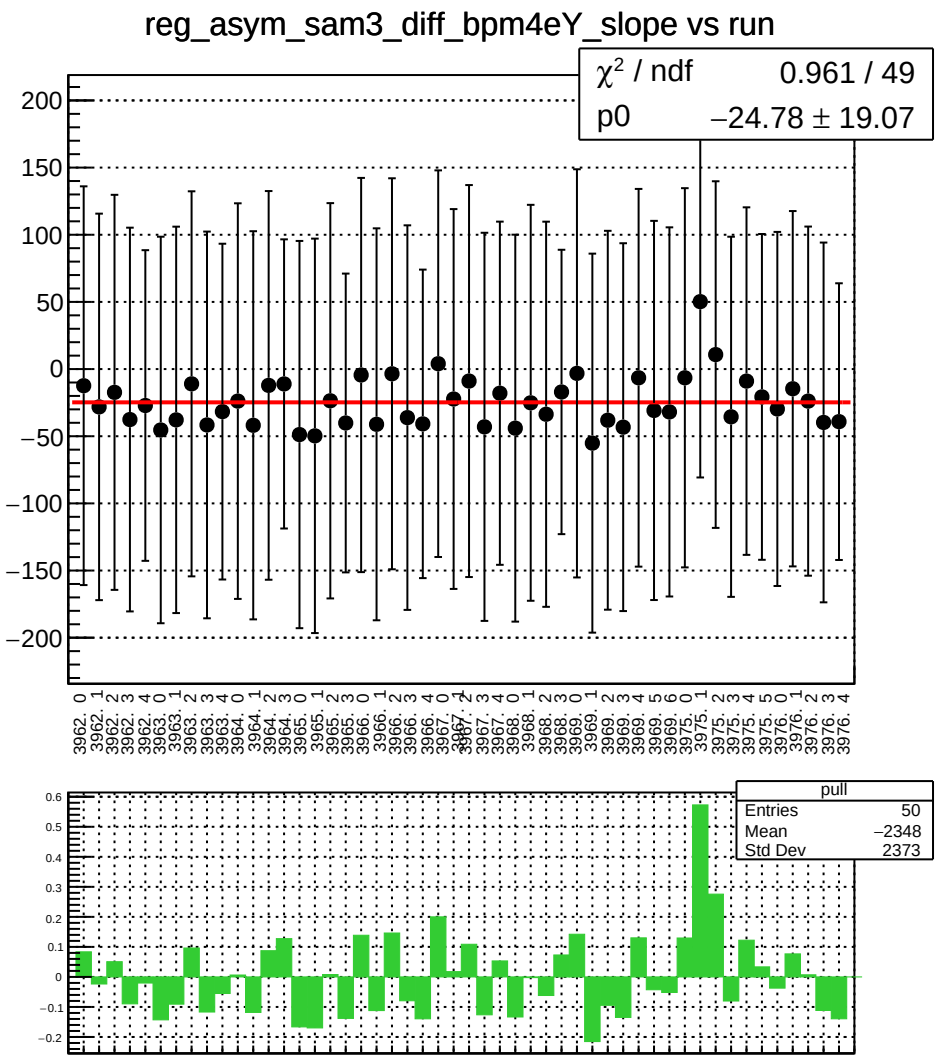

pull1D
Entries 50
Mean 0.007943
Std Dev 0.2367

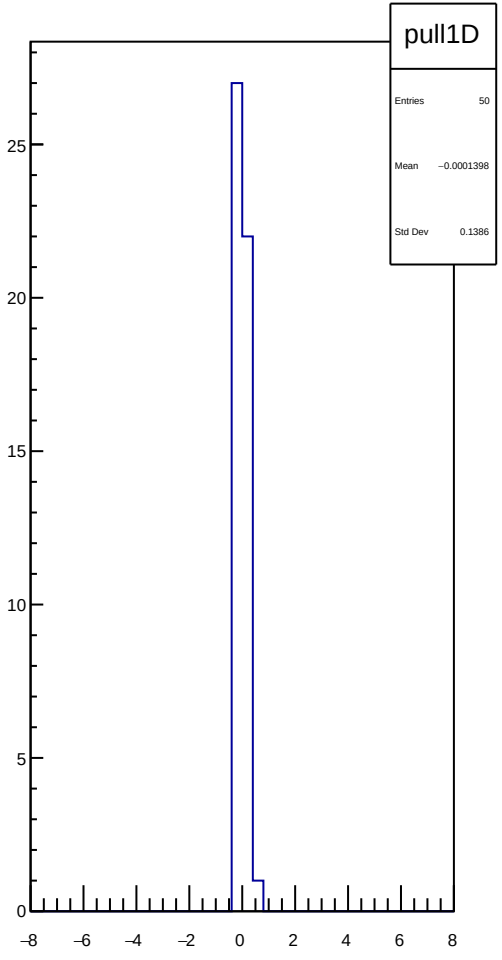

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.087 / 49
p0 11.18 ± 11.4
100
50
0
−50
−100
pull
Entries 50
Mean 5499
Std Dev 5471
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

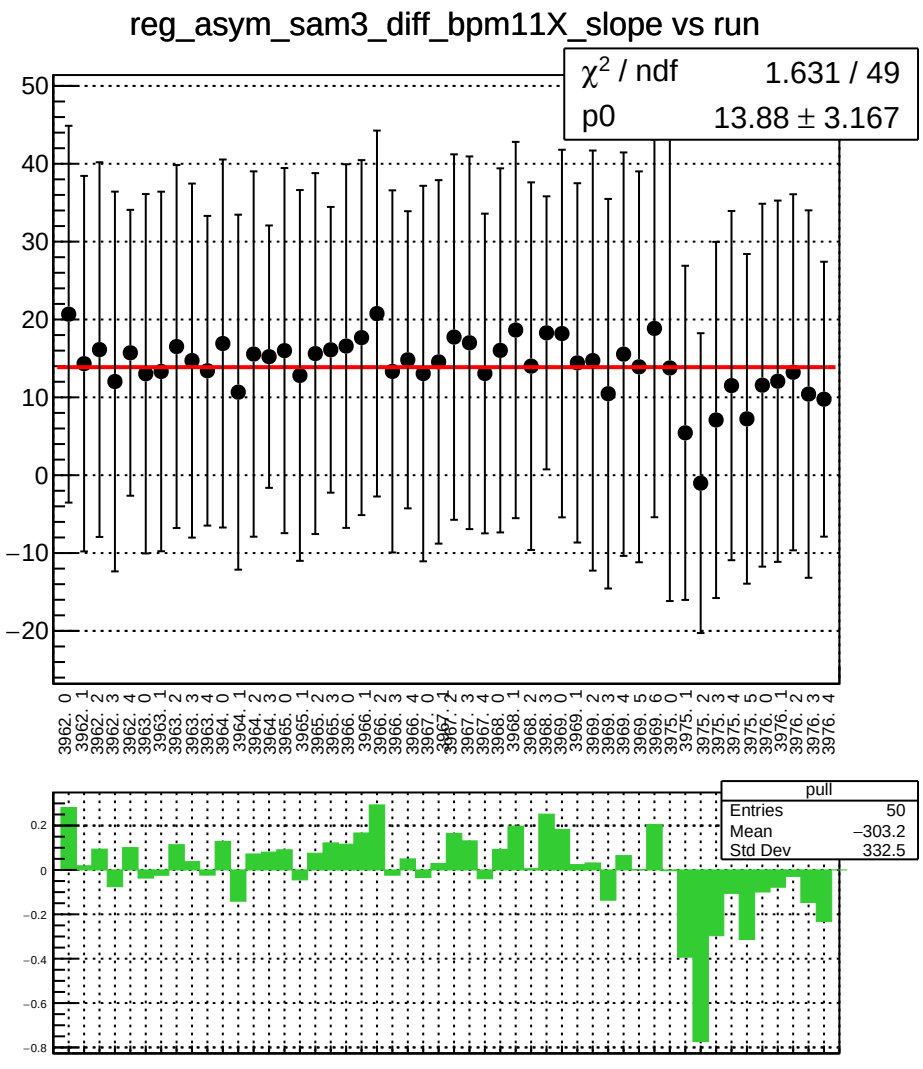

pull1D
Entries 50
Mean −8.373e−05
Std Dev 0.1475
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

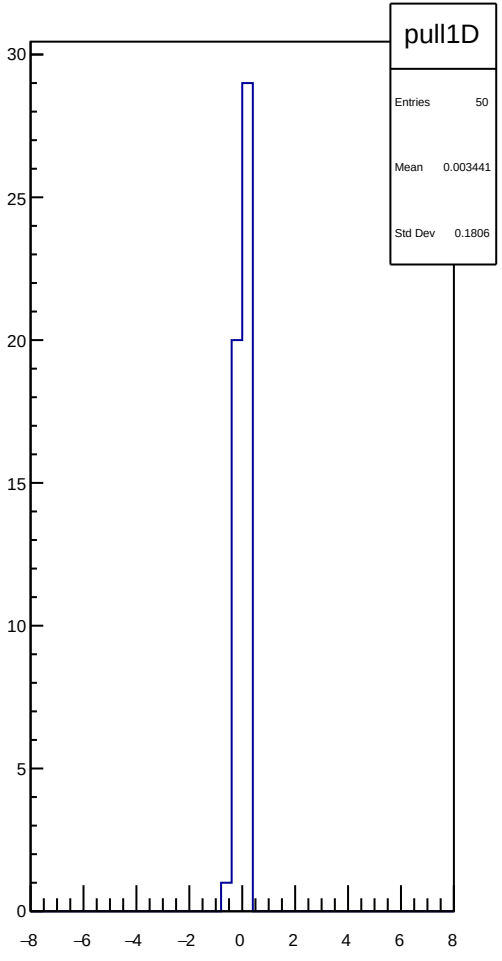

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 29.07 / 49
p0 −1096 ± 2.784
−1040
−1060
−1080
−1100
−1120
−1140
−1160
−1180
pull
Entries 50
Mean −69.04
Std Dev 97.23
2
1
0
−1
−2
−3

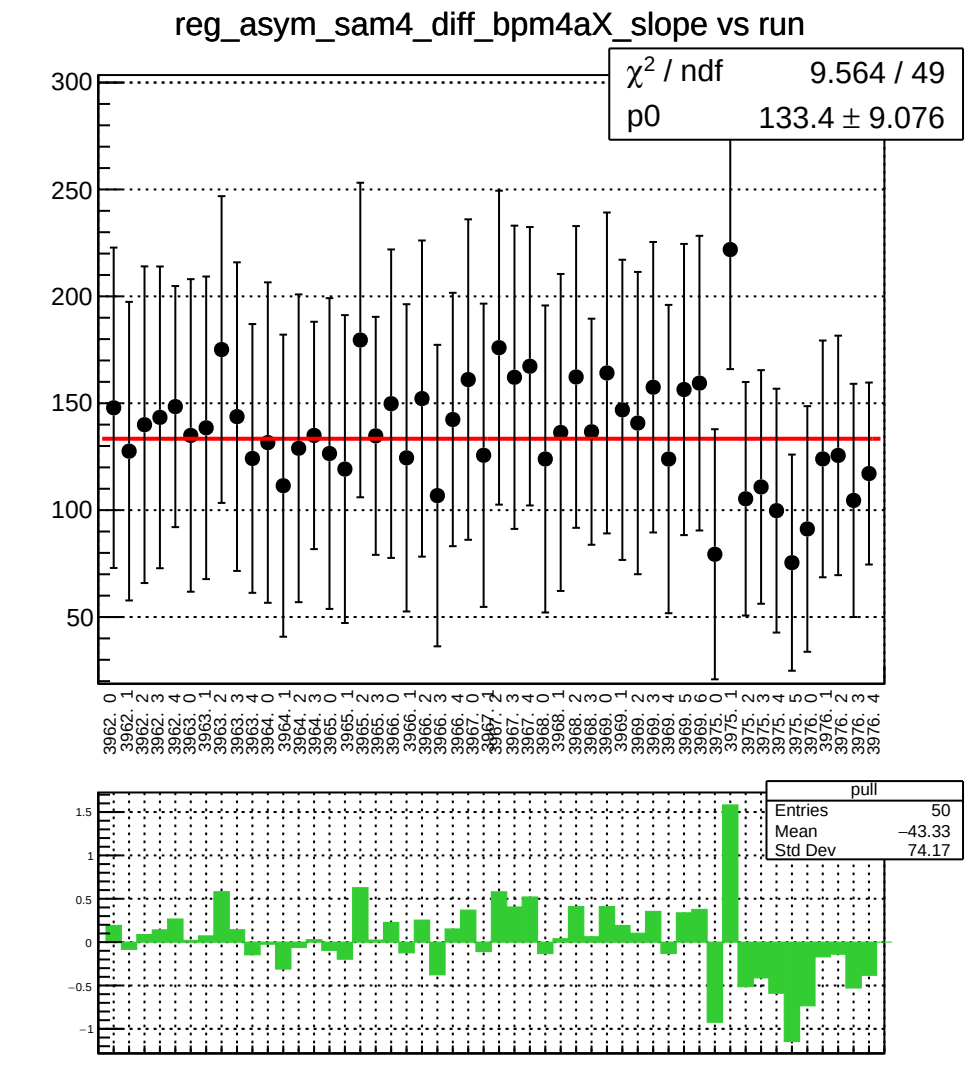

pull1D
Entries 50
Mean 0.05515
Std Dev 0.7605
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

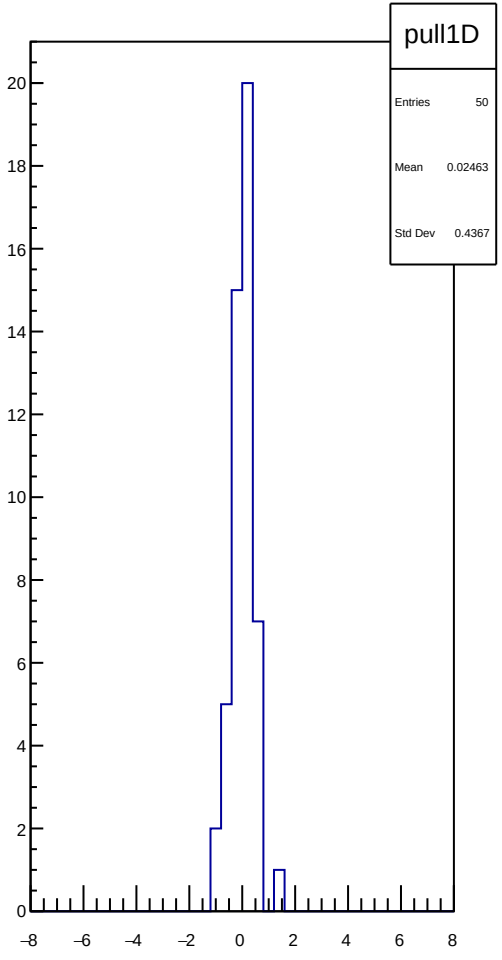

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.961 / 49
p0 −24.78 ± 19.07
pull
Entries 50
Mean −2348
Std Dev 2373

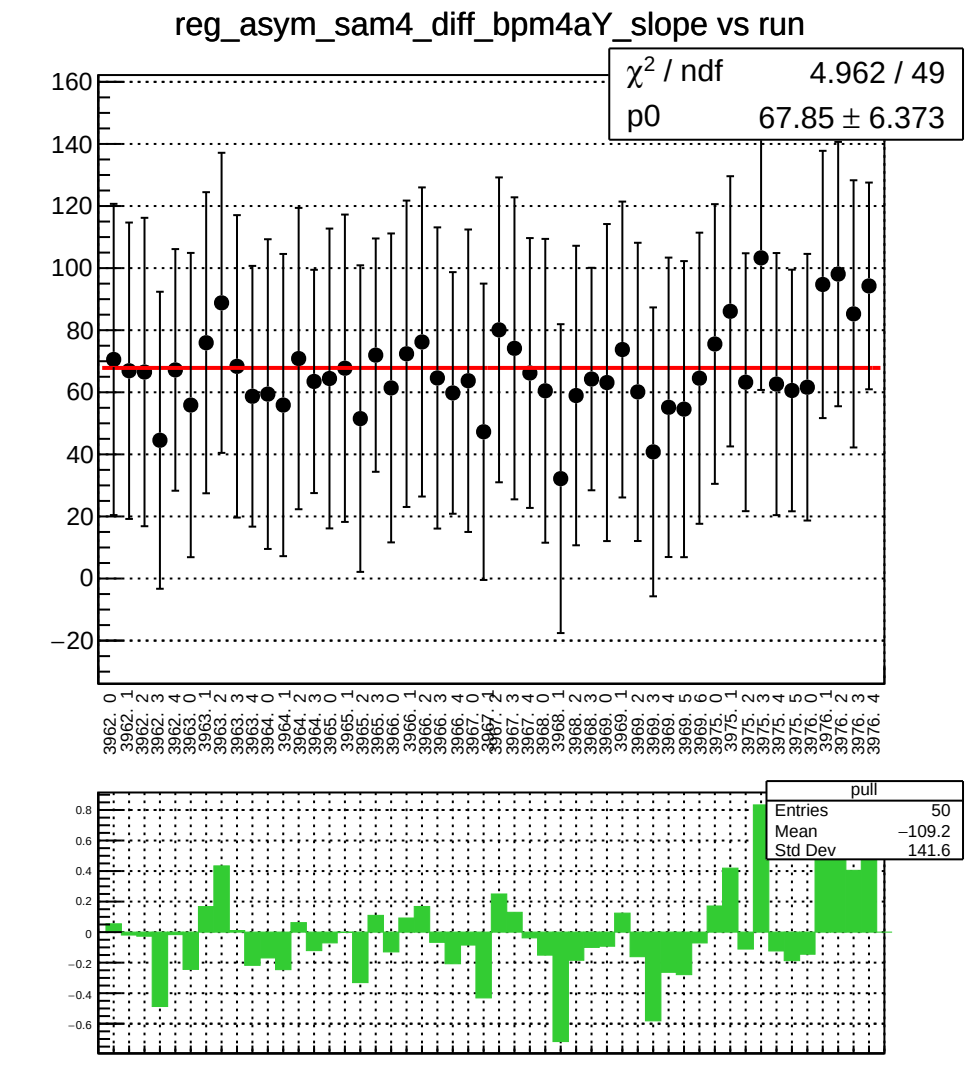

pull1D
Entries 50
Mean −0.0001398
Std Dev 0.1386

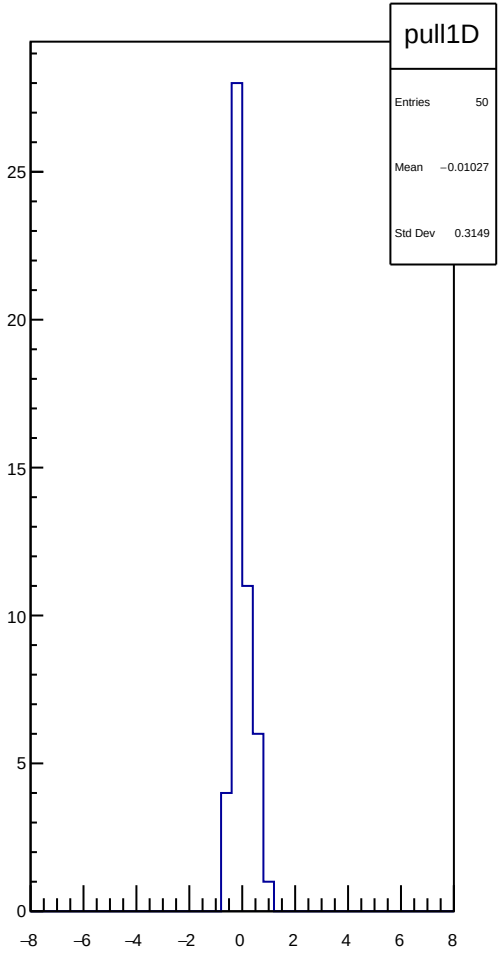

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 1.631 / 49
p0 13.88 ± 3.167
pull
Entries 50
Mean −303.2
Std Dev 332.5

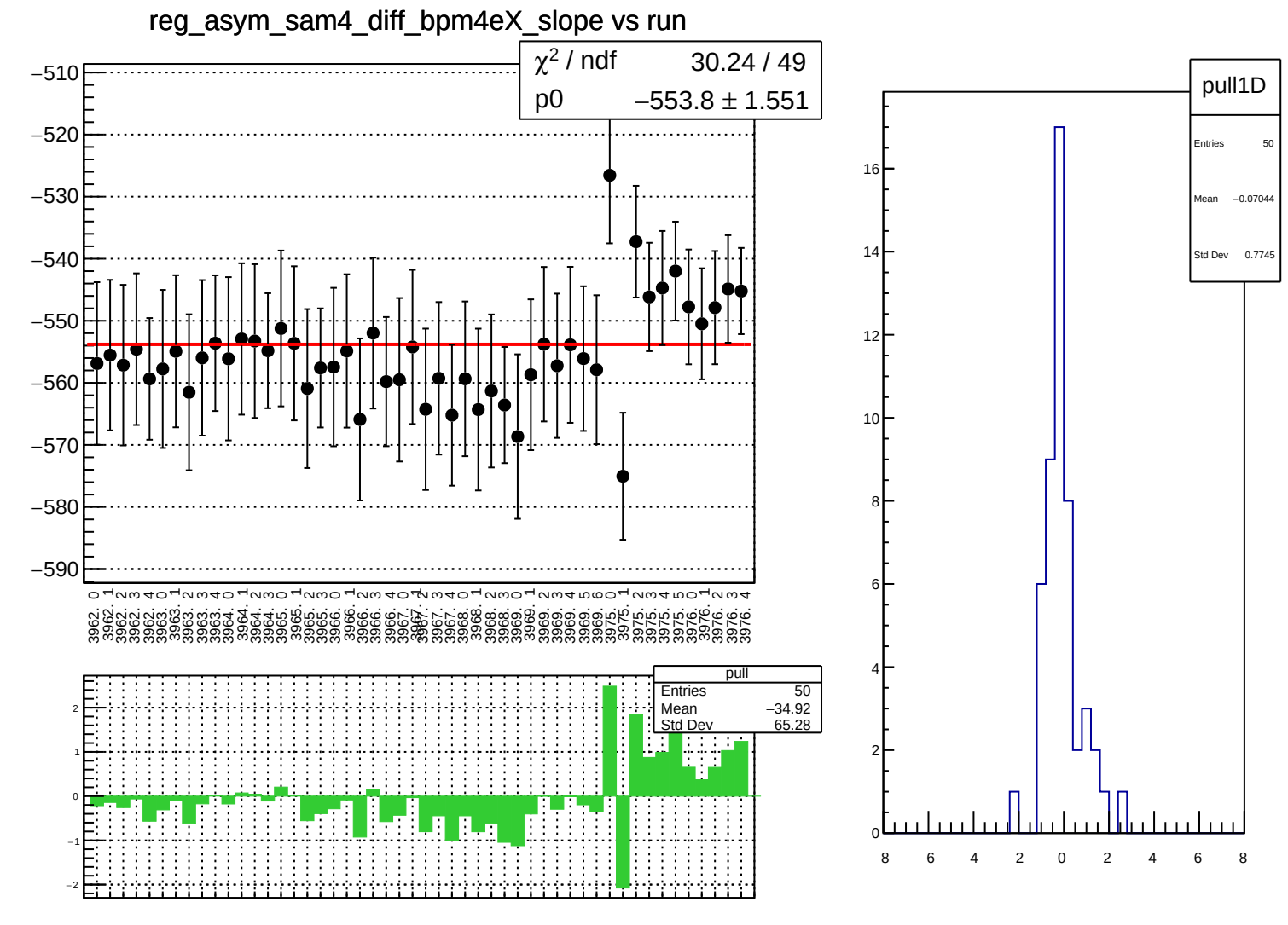

pull1D
Entries 50
Mean 0.003441
Std Dev 0.1806

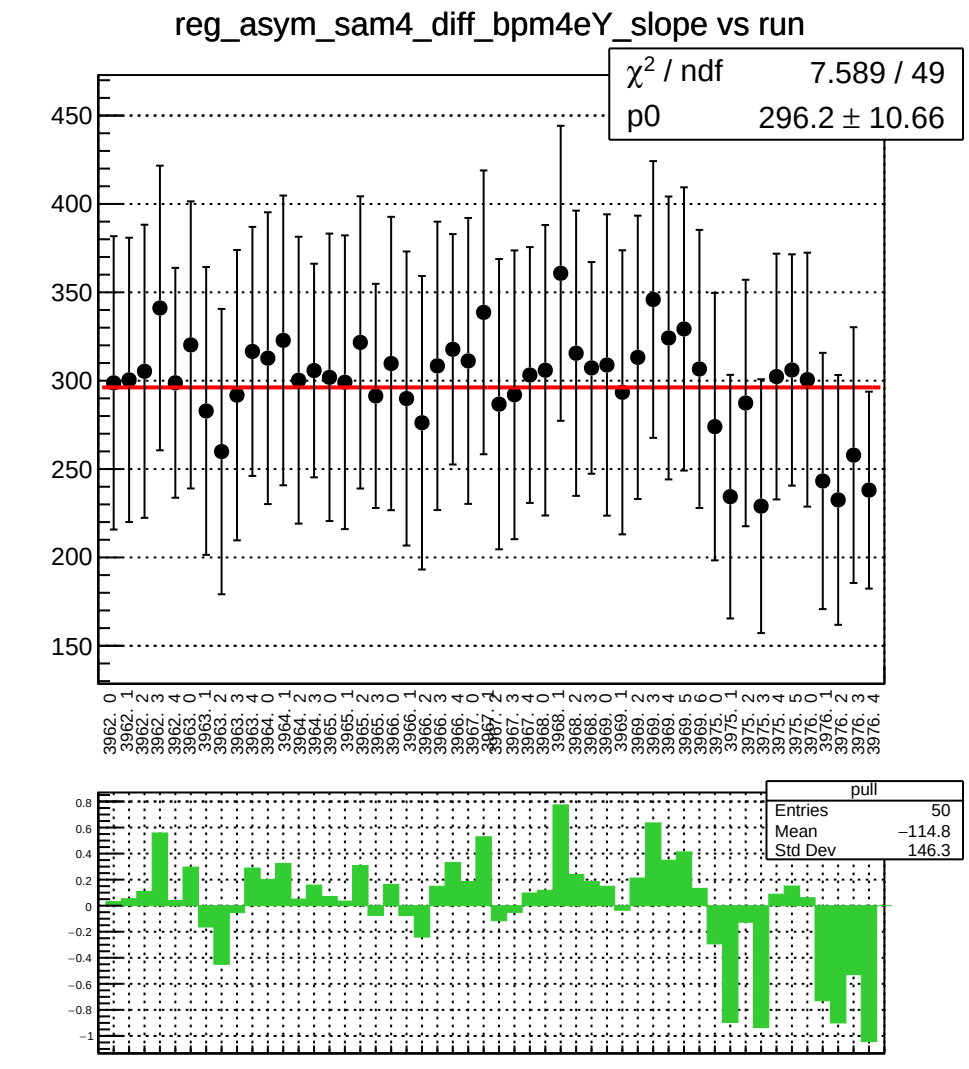

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 9.564 / 49
p0 133.4 ± 9.076
pull
Entries 50
Mean −43.33
Std Dev 74.17

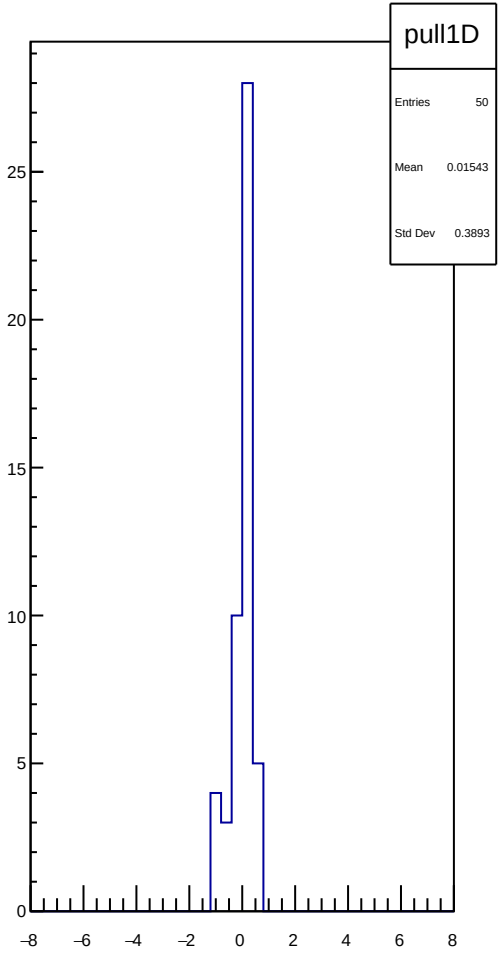

pull1D
Entries 50
Mean 0.02463
Std Dev 0.4367

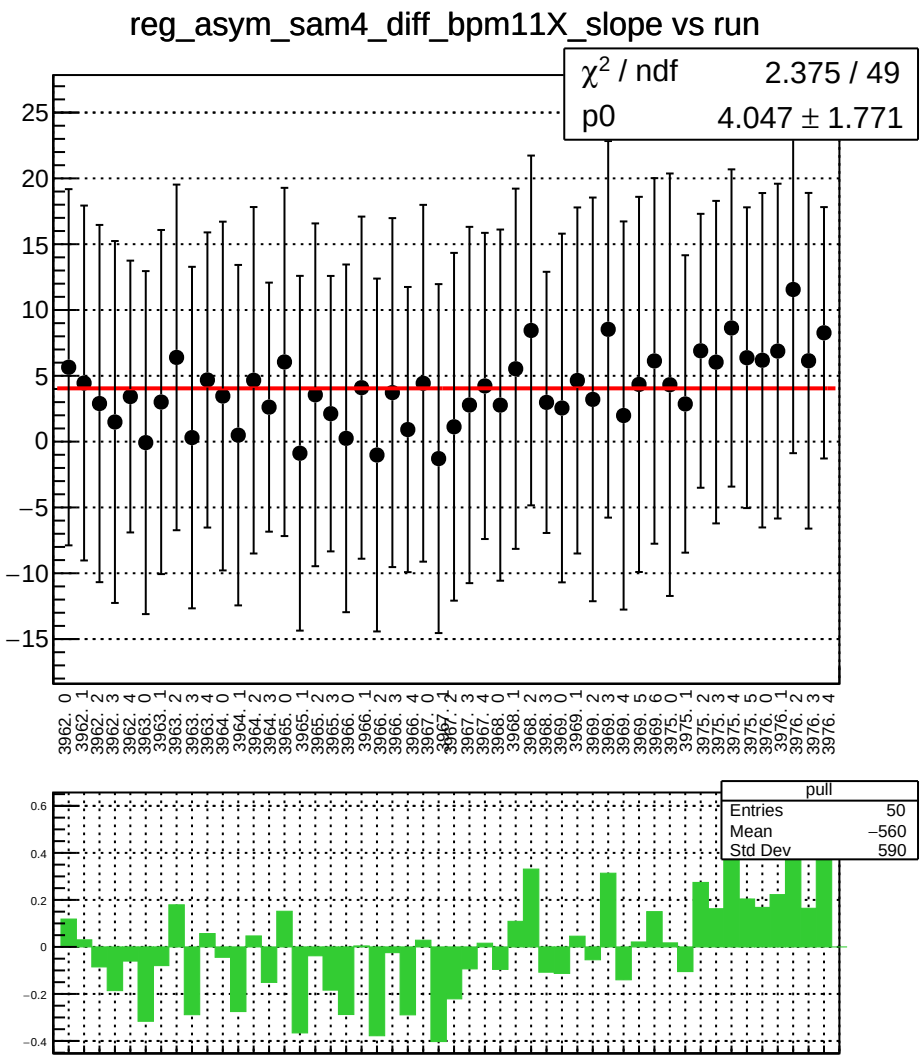

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.962 / 49
p0 67.85 ± 6.373
pull
Entries 50
Mean −109.2
Std Dev 141.6

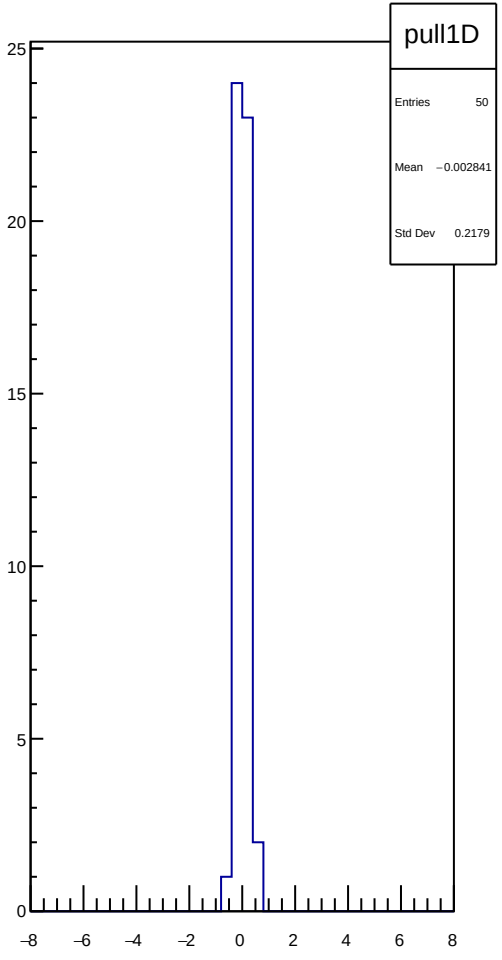

pull1D
Entries 50
Mean −0.01027
Std Dev 0.3149

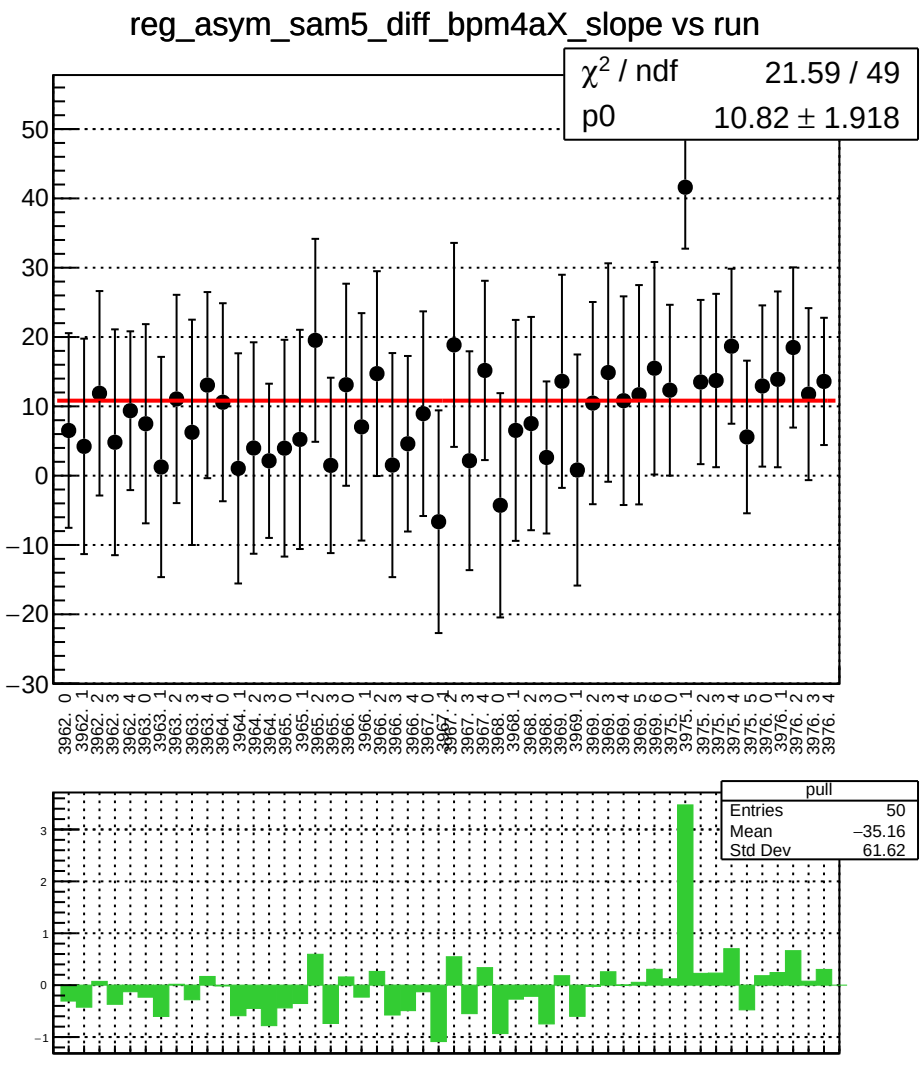

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 30.24 / 49
p0 −553.8 ± 1.551
pull
Entries 50
Mean −34.92
Std Dev 65.28
pull1D
Entries 50
Mean −0.07044
Std Dev 0.7745

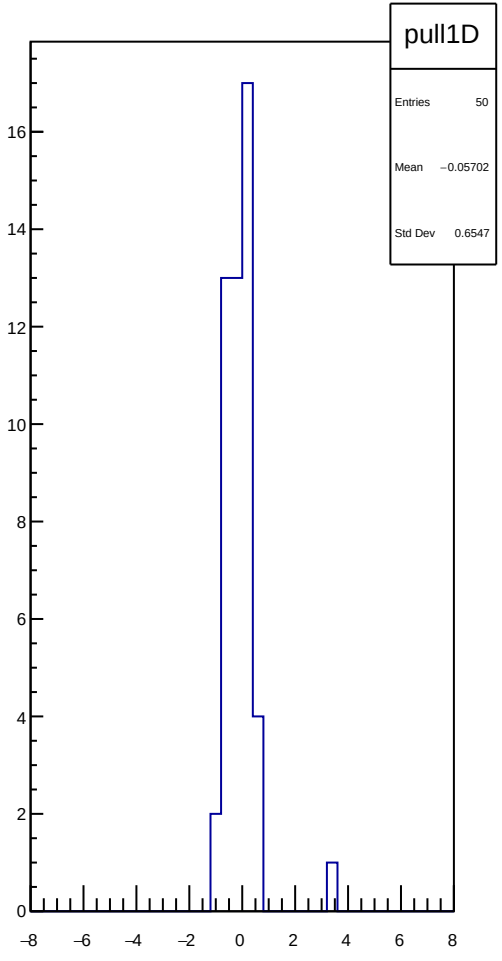

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 7.589 / 49
p0 296.2 ± 10.66
pull
Entries 50
Mean −114.8
Std Dev 146.3

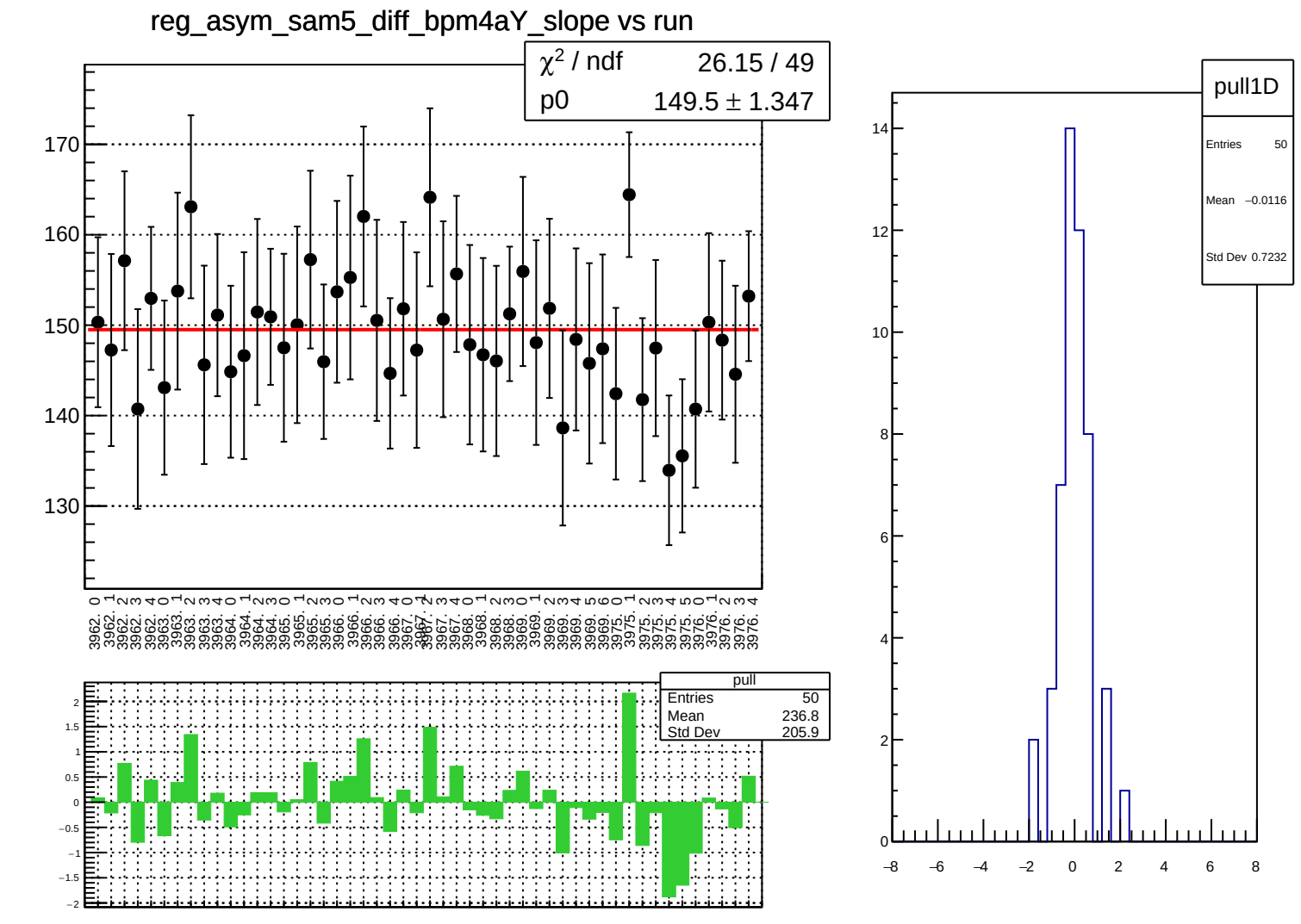

pull1D
Entries 50
Mean 0.01543
Std Dev 0.3893

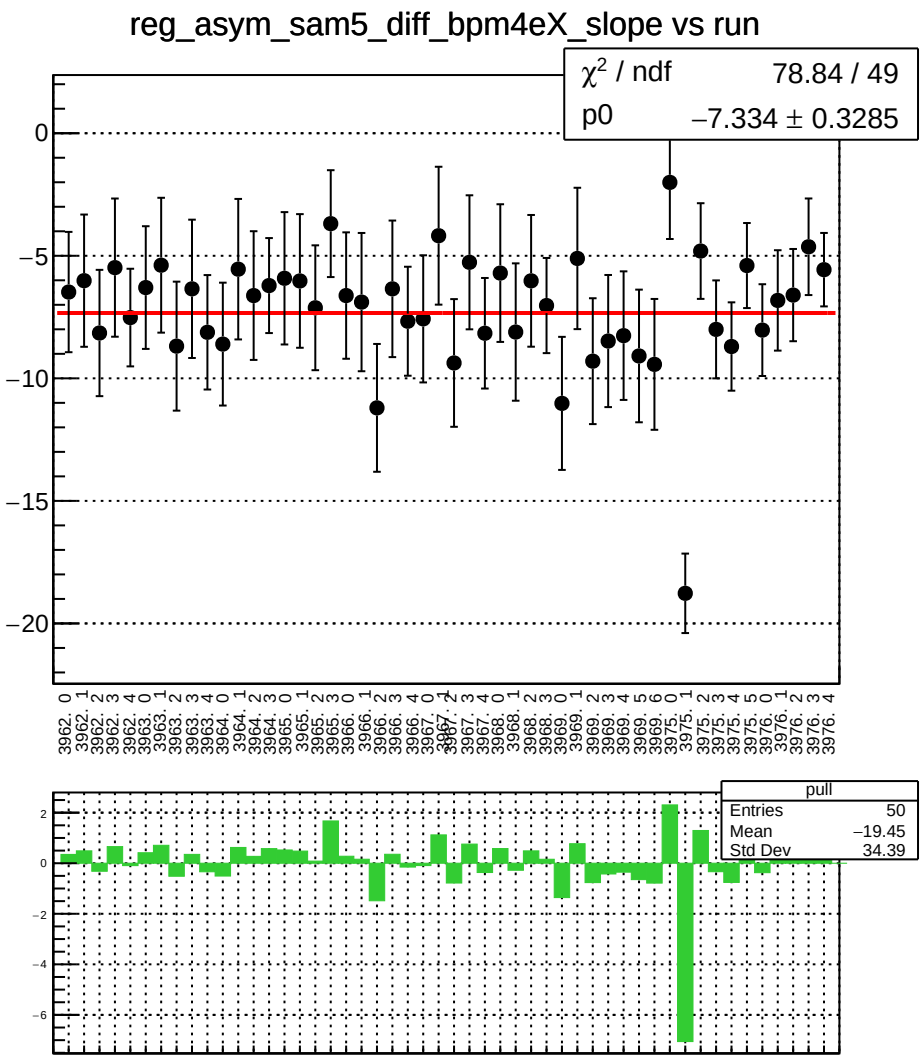

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 2.375 / 49
p0 4.047 ± 1.771
pull
Entries 50
Mean −560
Std Dev 590

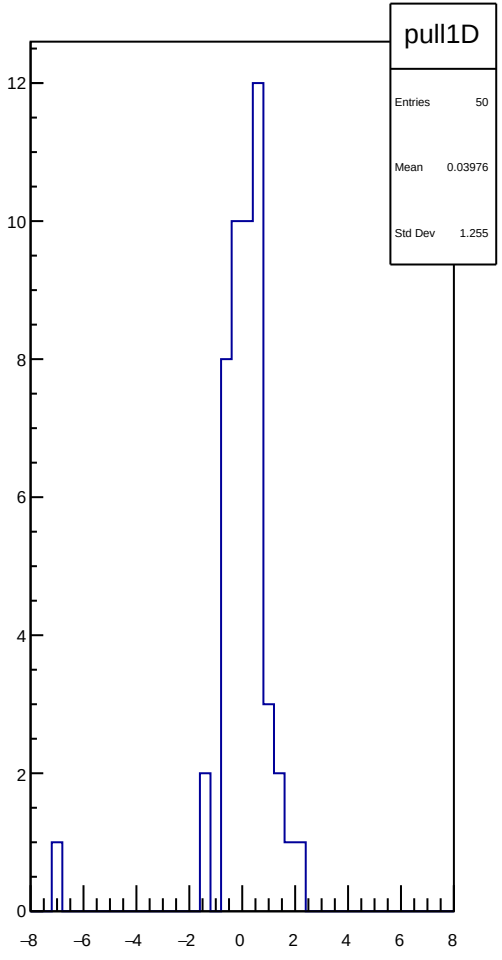

pull1D
Entries 50
Mean −0.002841
Std Dev 0.2179

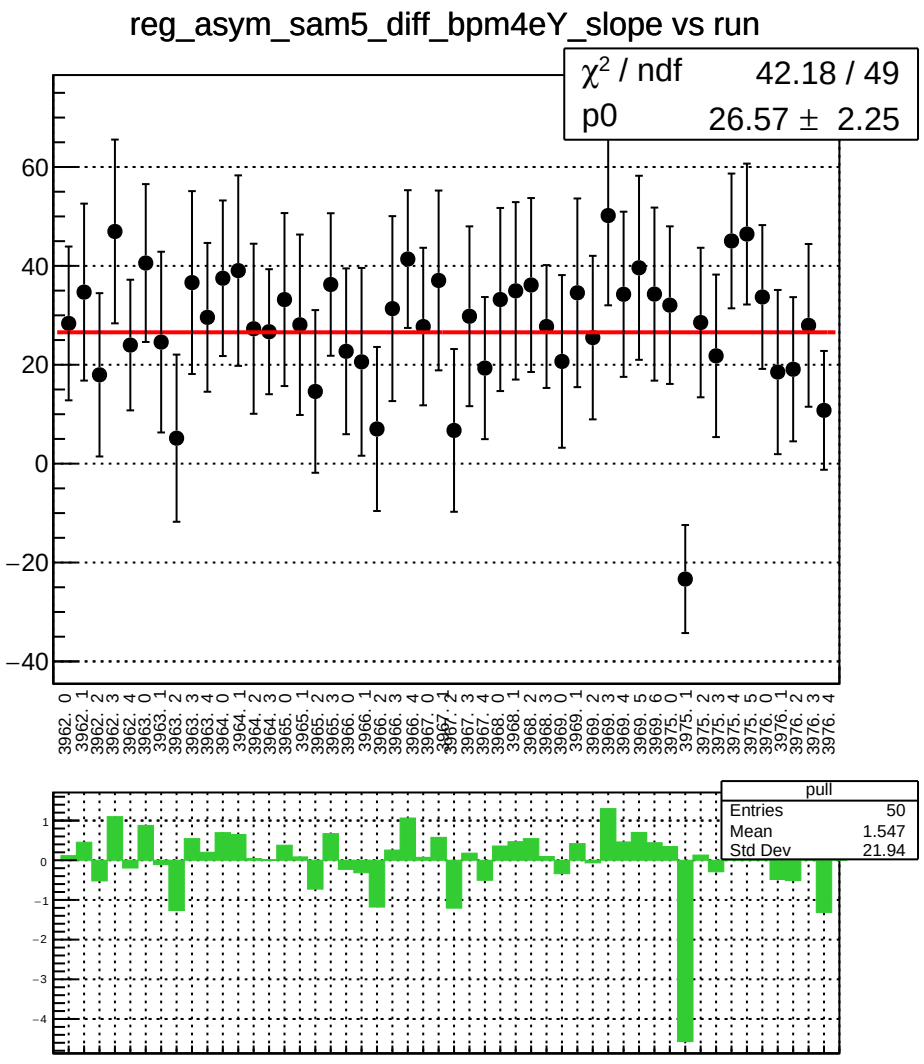

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 21.59 / 49
p0 10.82 ± 1.918
pull
Entries 50
Mean −35.16
Std Dev 61.62

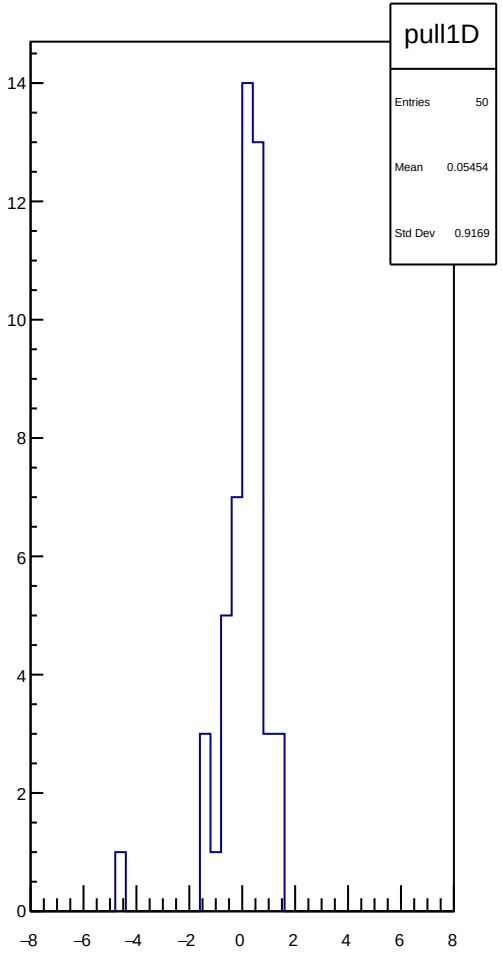

pull1D
Entries 50
Mean −0.05702
Std Dev 0.6547

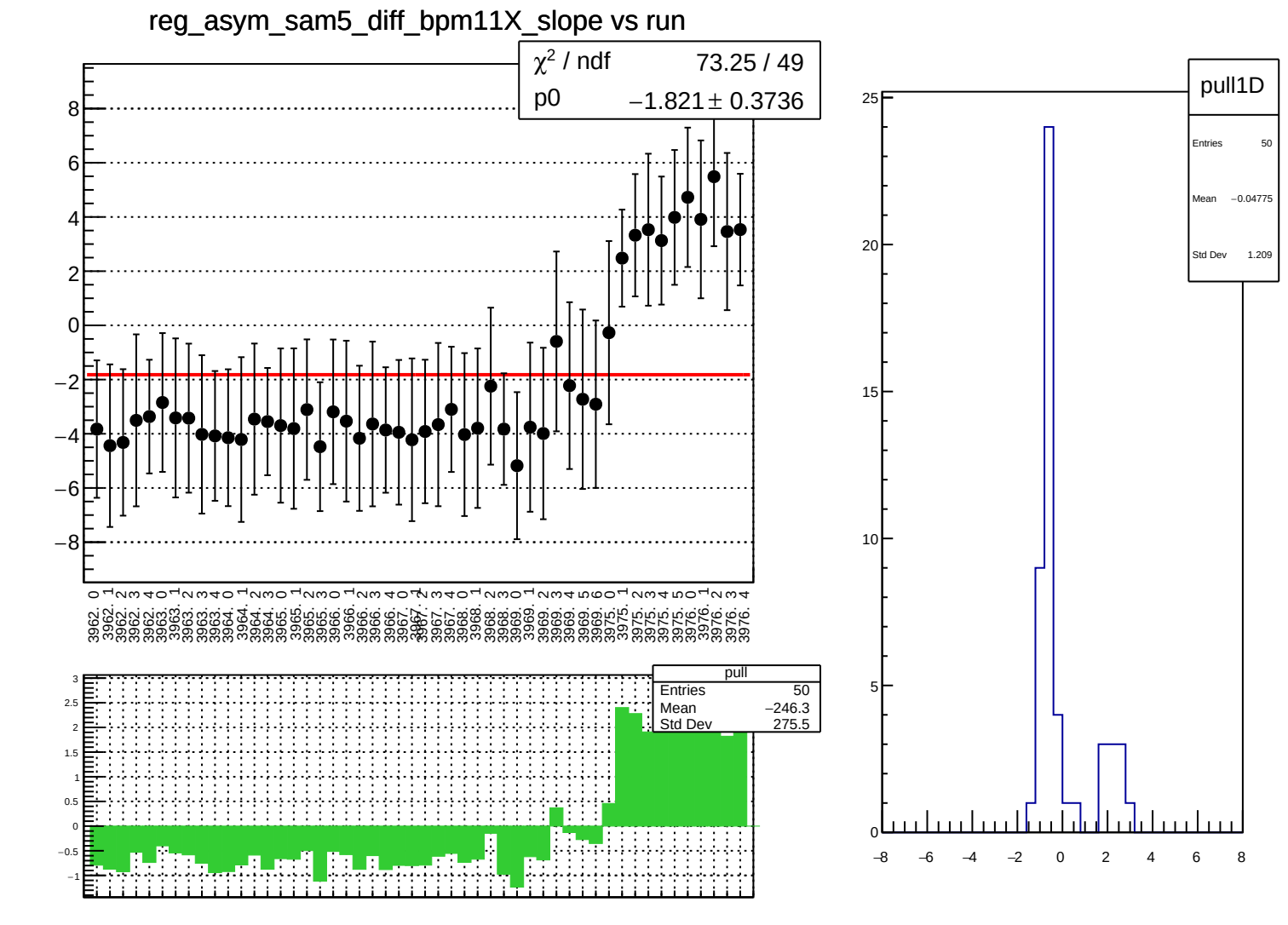

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 26.15 / 49
p0 149.5 ± 1.347
170
160
150
140
130
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 236.8
Std Dev 205.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.0116
Std Dev 0.7232
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

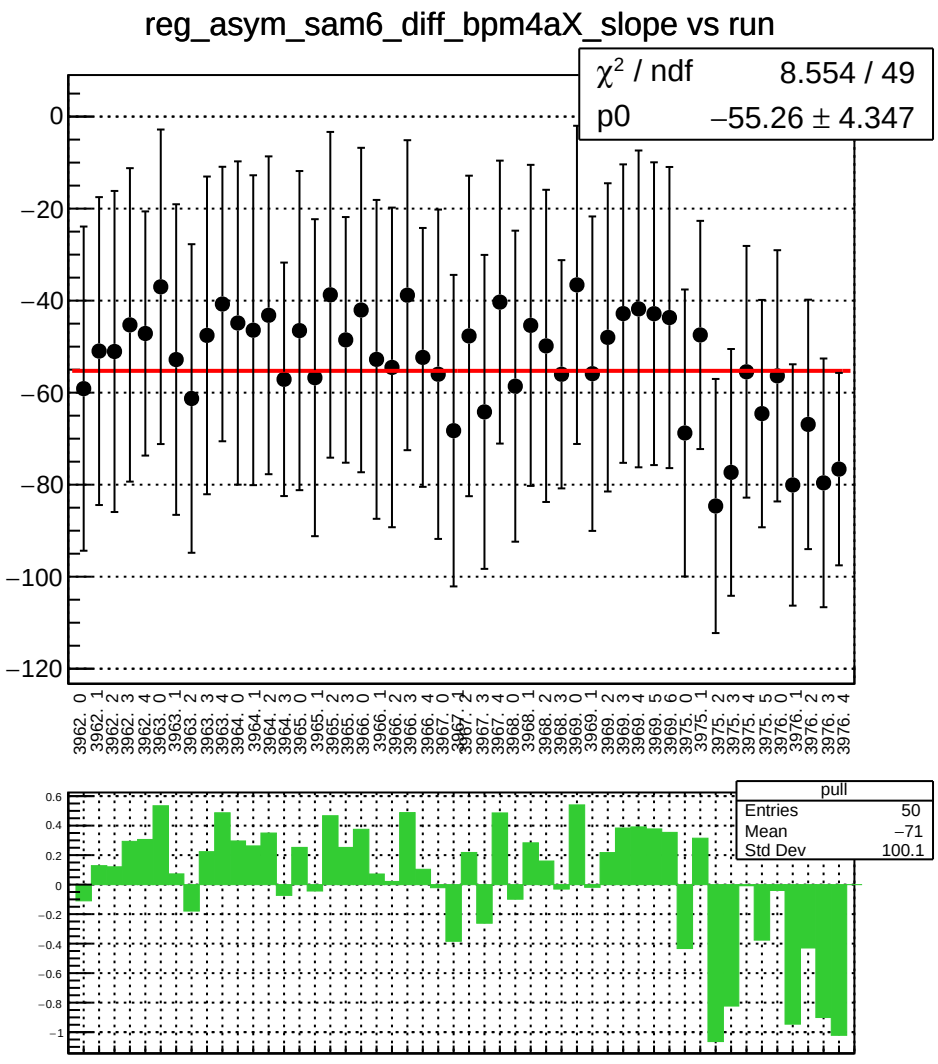

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 78.84 / 49
p0 −7.334 ± 0.3285
pull
Entries 50
Mean −19.45
Std Dev 34.39

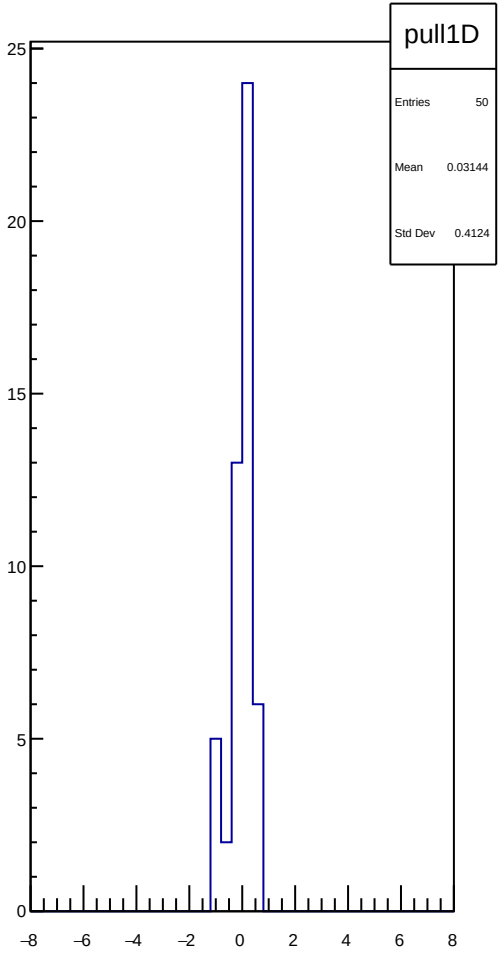

pull1D
Entries 50
Mean 0.03976
Std Dev 1.255

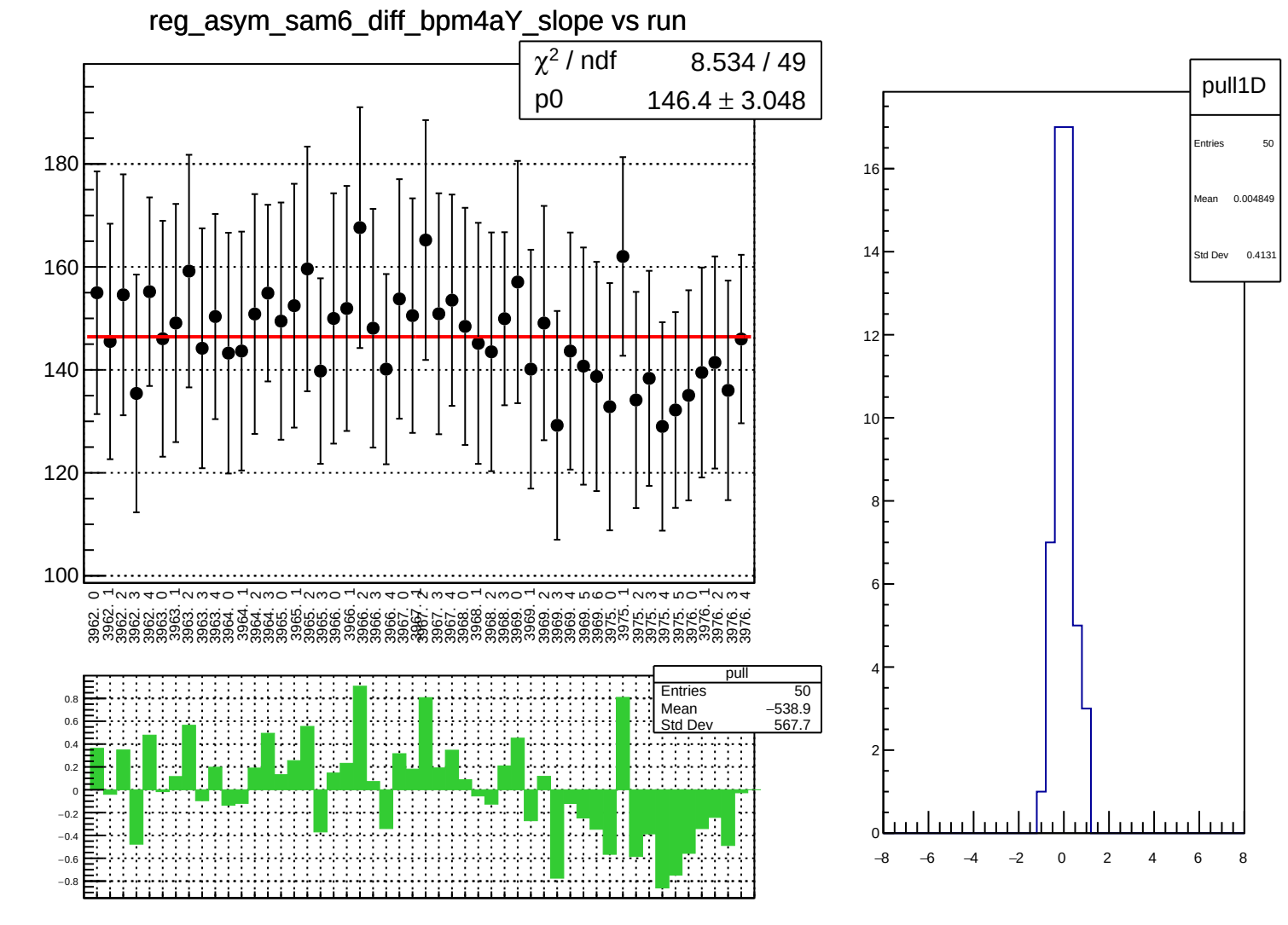

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 42.18 / 49
p0 26.57 ± 2.25
pull
Entries 50
Mean 1.547
Std Dev 21.94

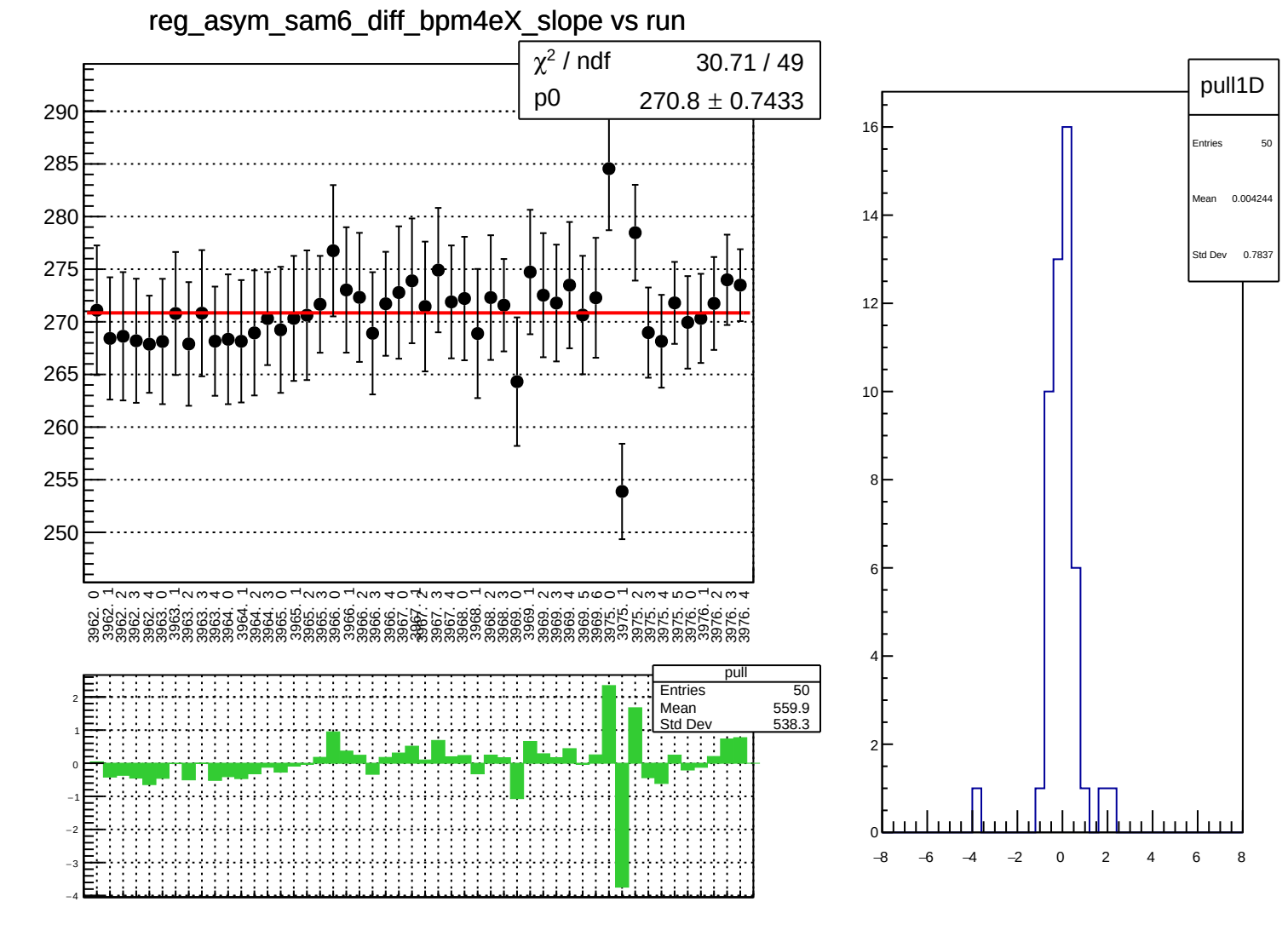

pull1D
Entries 50
Mean 0.05454
Std Dev 0.9169

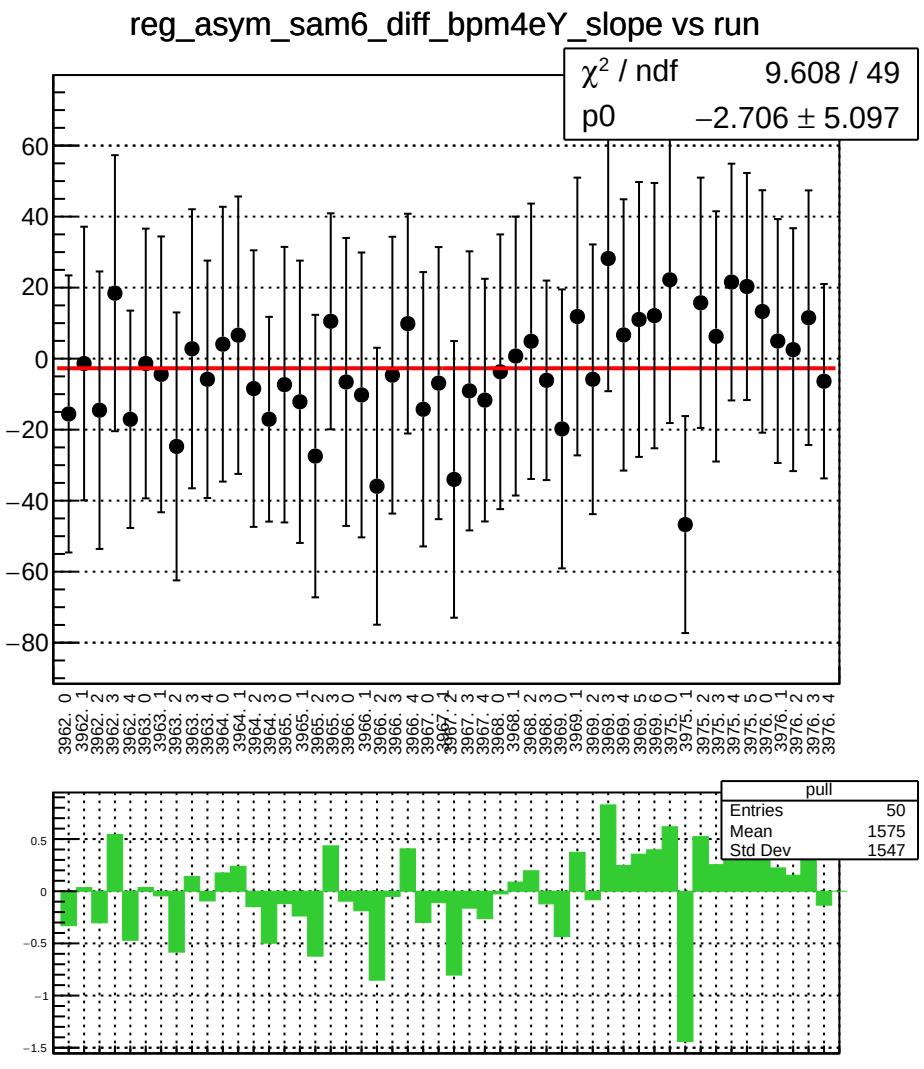

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 73.25 / 49
p0 −1.821 ± 0.3736
pull
Entries 50
Mean −246.3
Std Dev 275.5
pull1D
Entries 50
Mean −0.04775
Std Dev 1.209

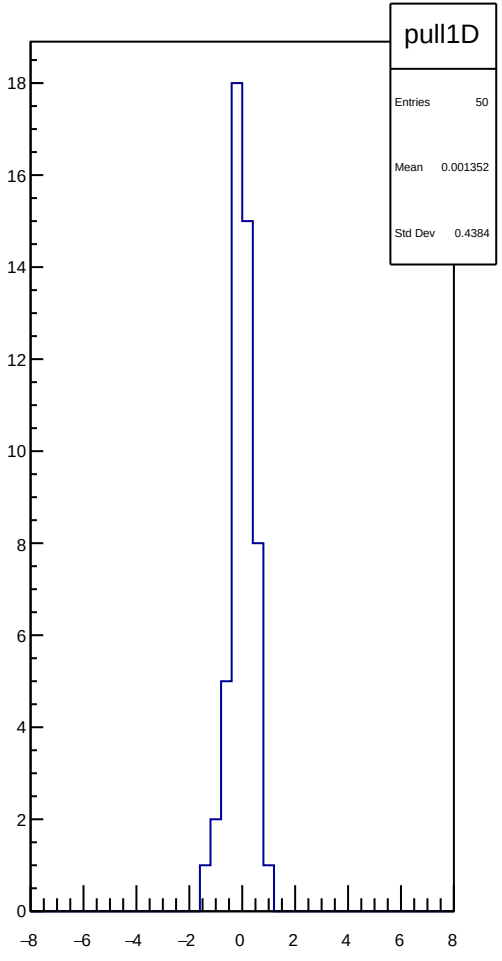

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 8.554 / 49
p0 −55.26 ± 4.347
pull
Entries 50
Mean −71
Std Dev 100.1

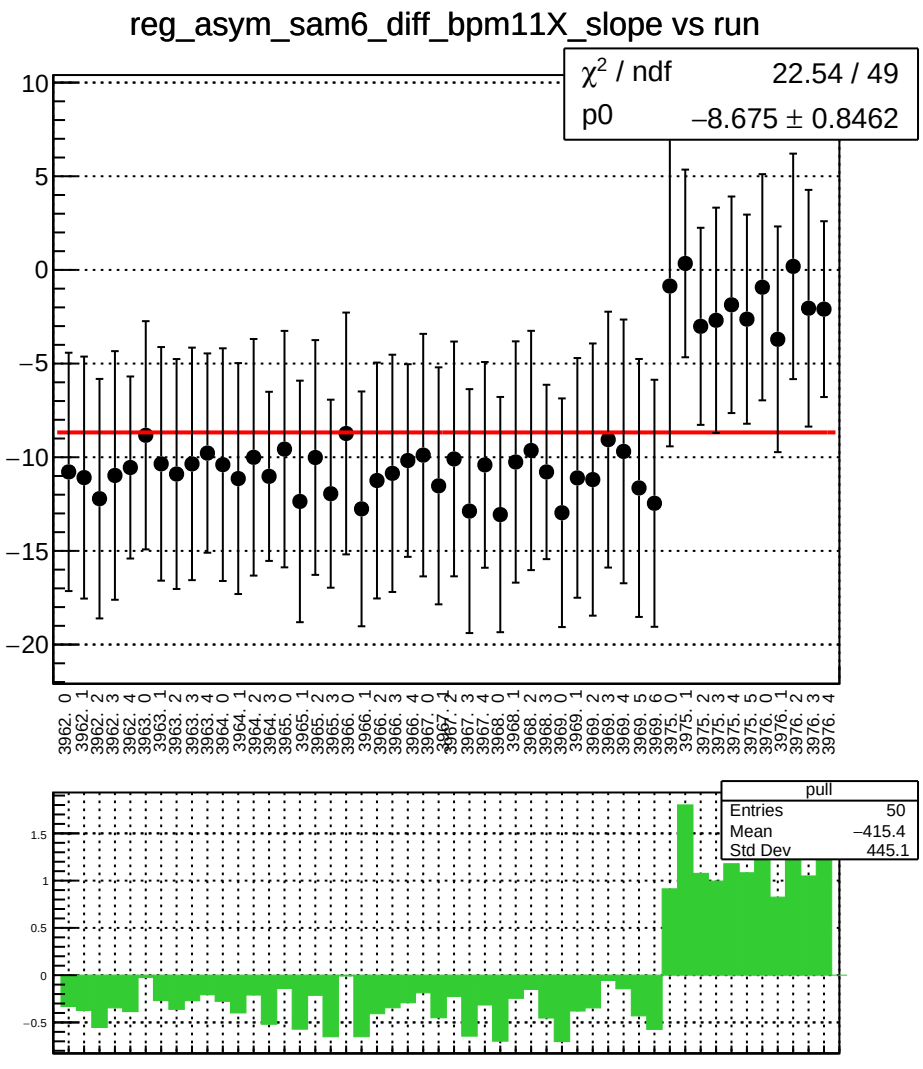

pull1D
Entries 50
Mean 0.03144
Std Dev 0.4124

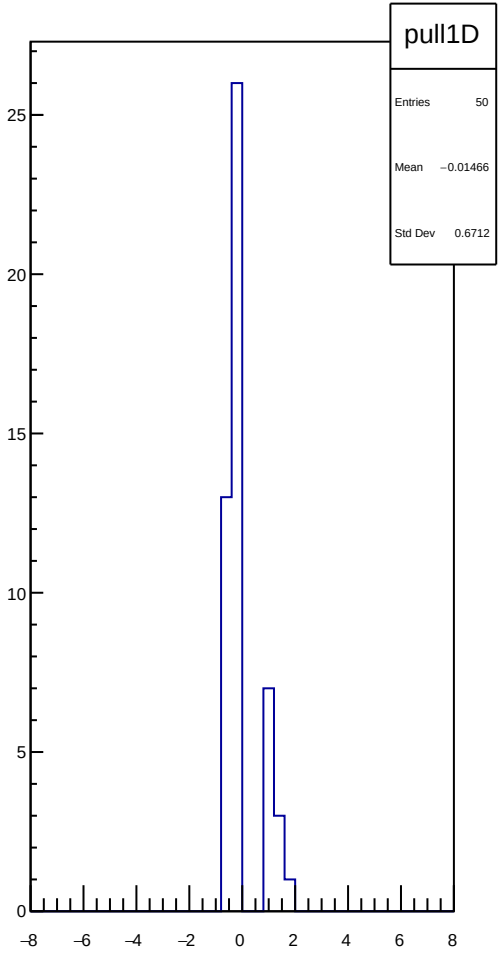

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 8.534 / 49
p0 146.4 ± 3.048
pull
Entries 50
Mean −538.9
Std Dev 567.7
pull1D
Entries 50
Mean 0.004849
Std Dev 0.4131

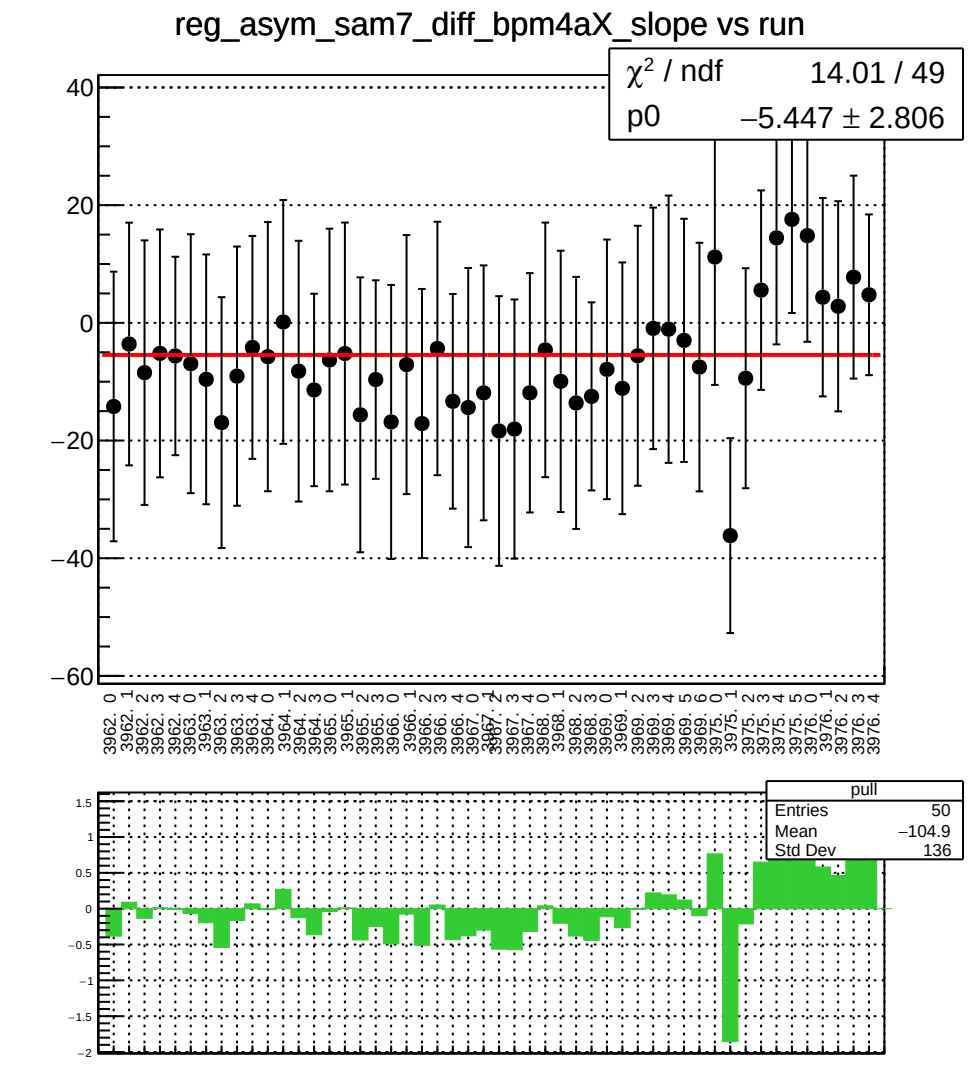

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 30.71 / 49
p0 270.8 ± 0.7433
pull
Entries 50
Mean 559.9
Std Dev 538.3
pull1D
Entries 50
Mean 0.004244
Std Dev 0.7837

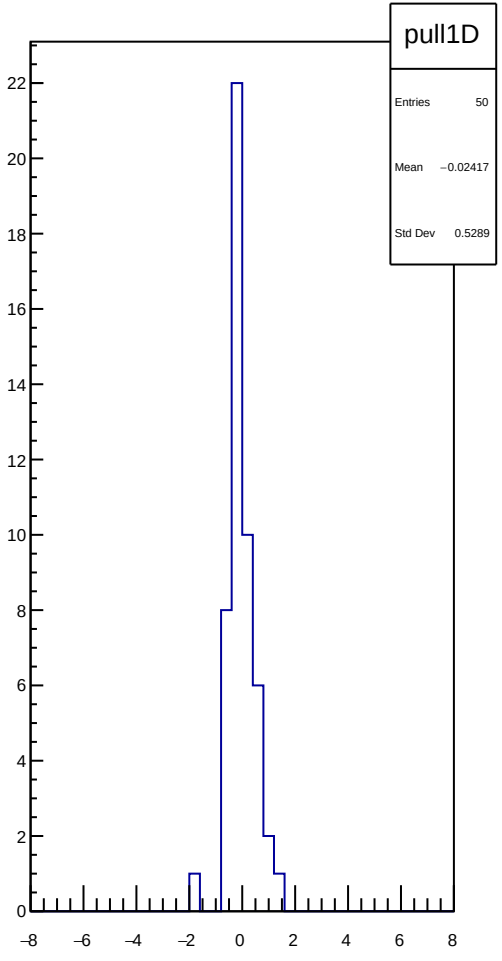

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 9.608 / 49
p0 −2.706 ± 5.097
pull
Entries 50
Mean 1575
Std Dev 1547

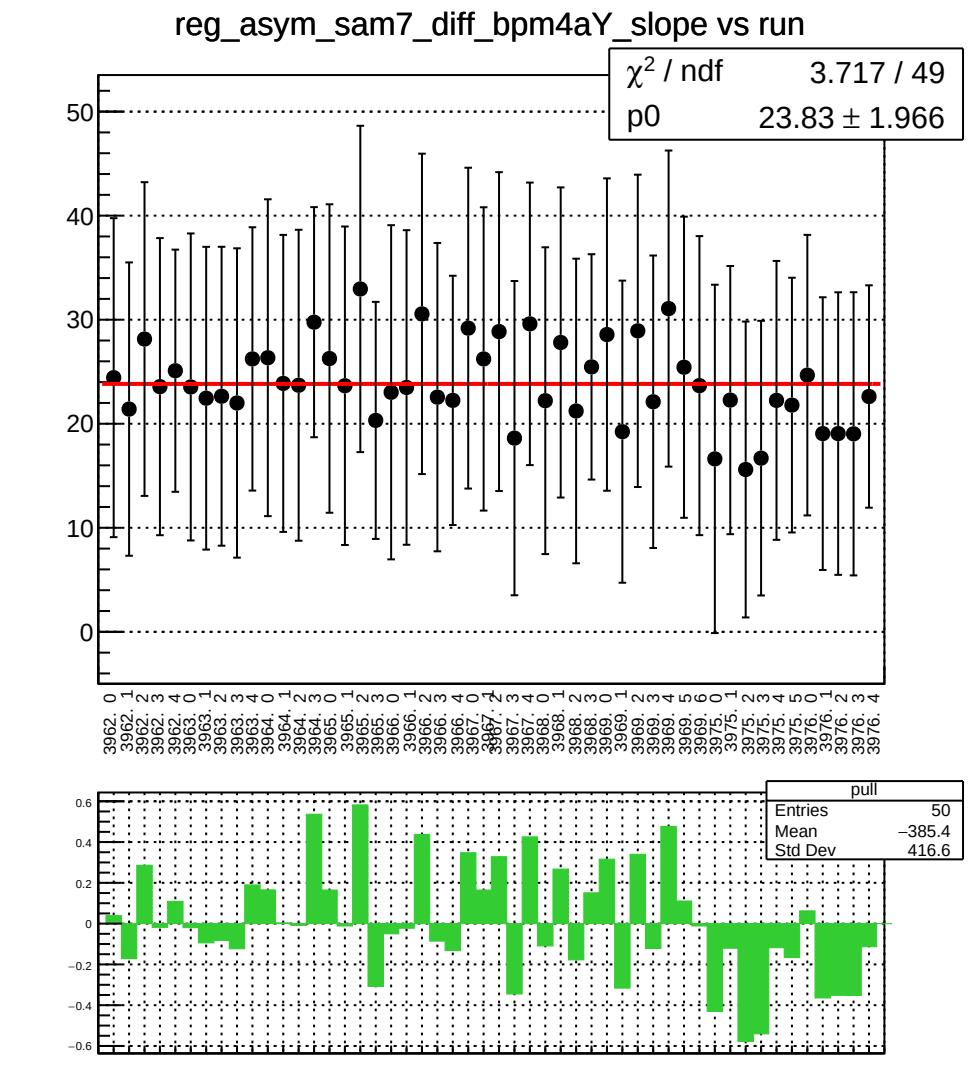

pull1D
Entries 50
Mean 0.001352
Std Dev 0.4384

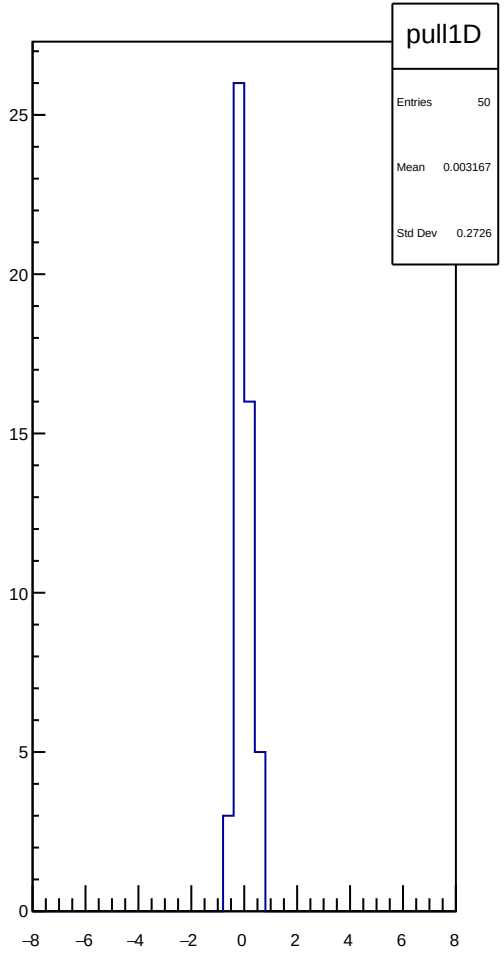

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 22.54 / 49
p0 −8.675 ± 0.8462
pull
Entries 50
Mean −415.4
Std Dev 445.1

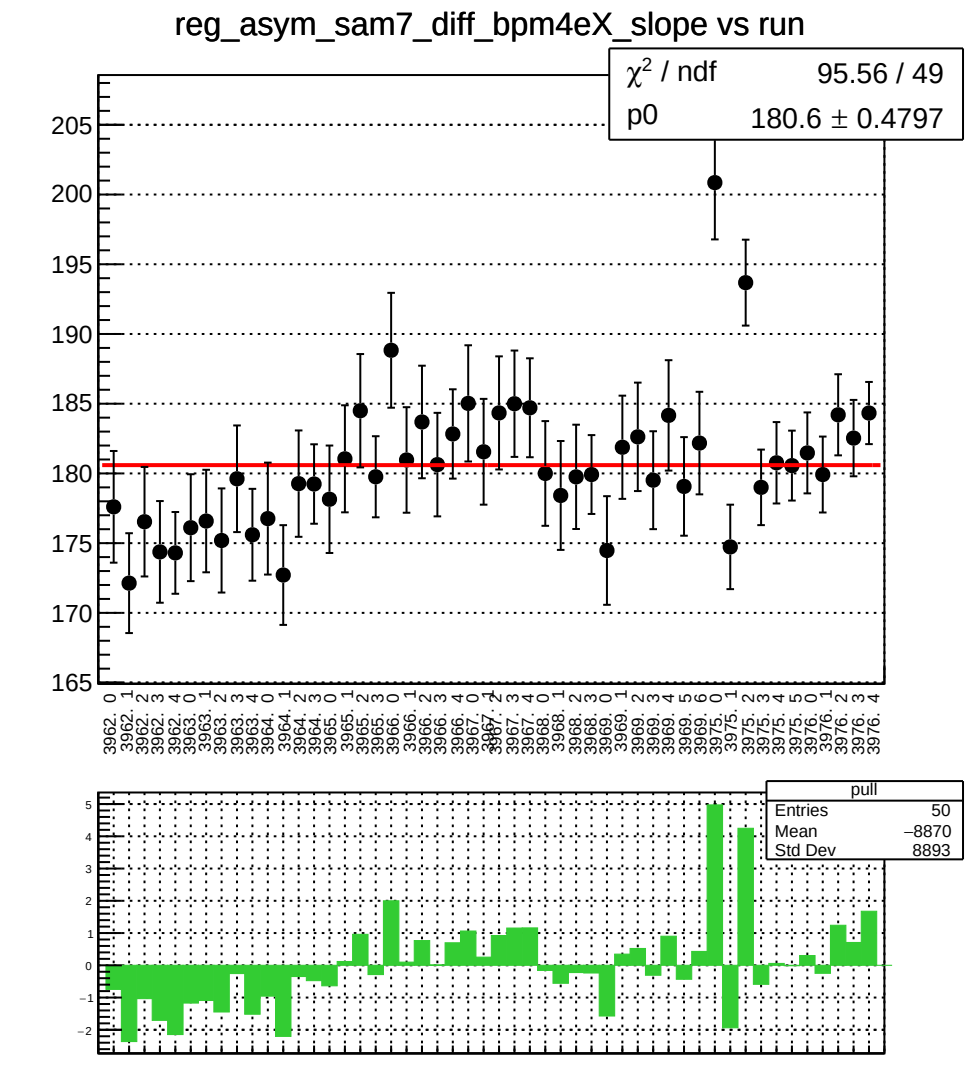

pull1D
Entries 50
Mean −0.01466
Std Dev 0.6712

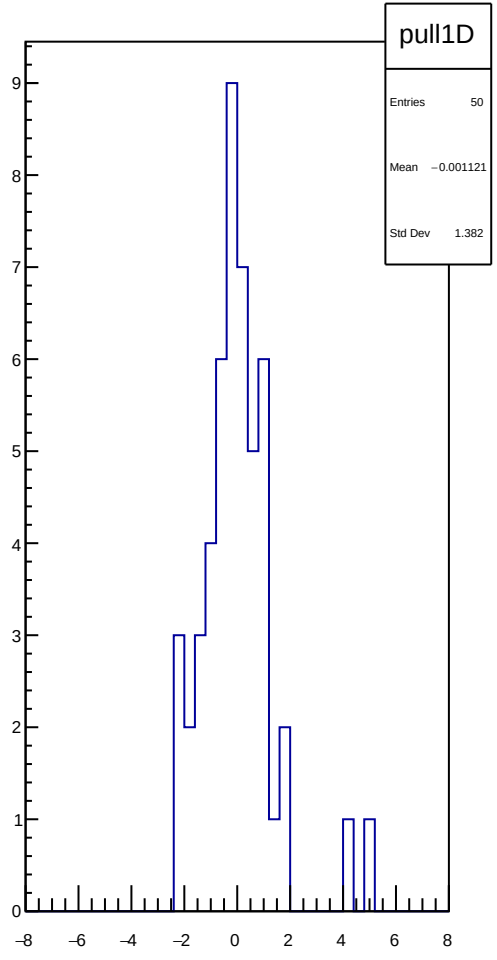

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 14.01 / 49
p0 −5.447 ± 2.806
pull
Entries 50
Mean −104.9
Std Dev 136

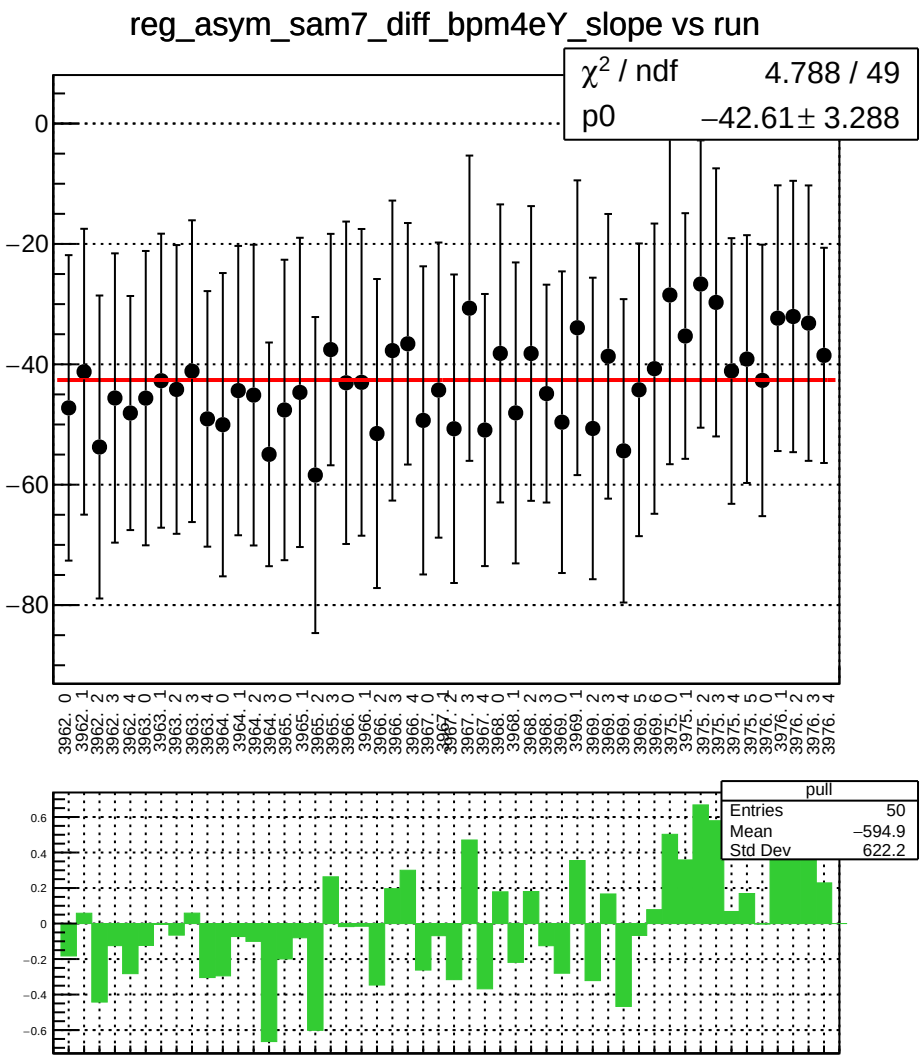

pull1D
Entries 50
Mean −0.02417
Std Dev 0.5289

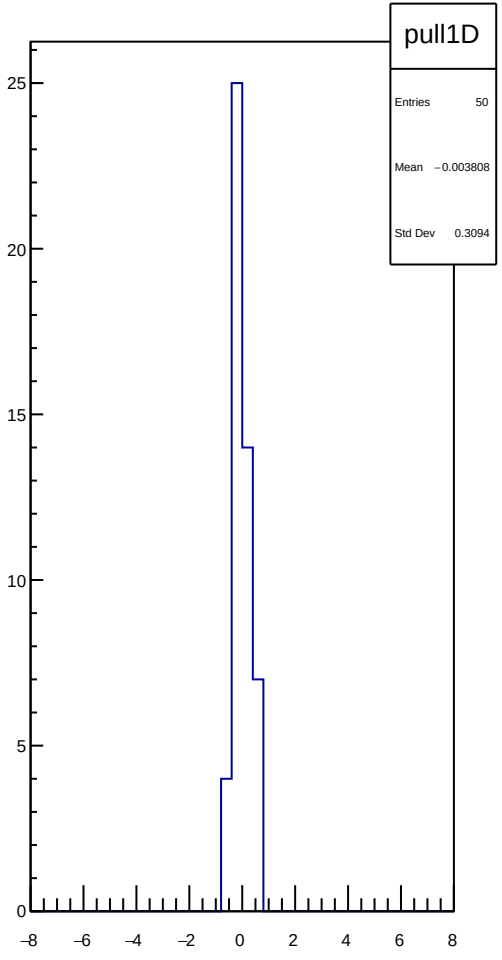

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 3.717 / 49
p0 23.83 ± 1.966
pull
Entries 50
Mean −385.4
Std Dev 416.6

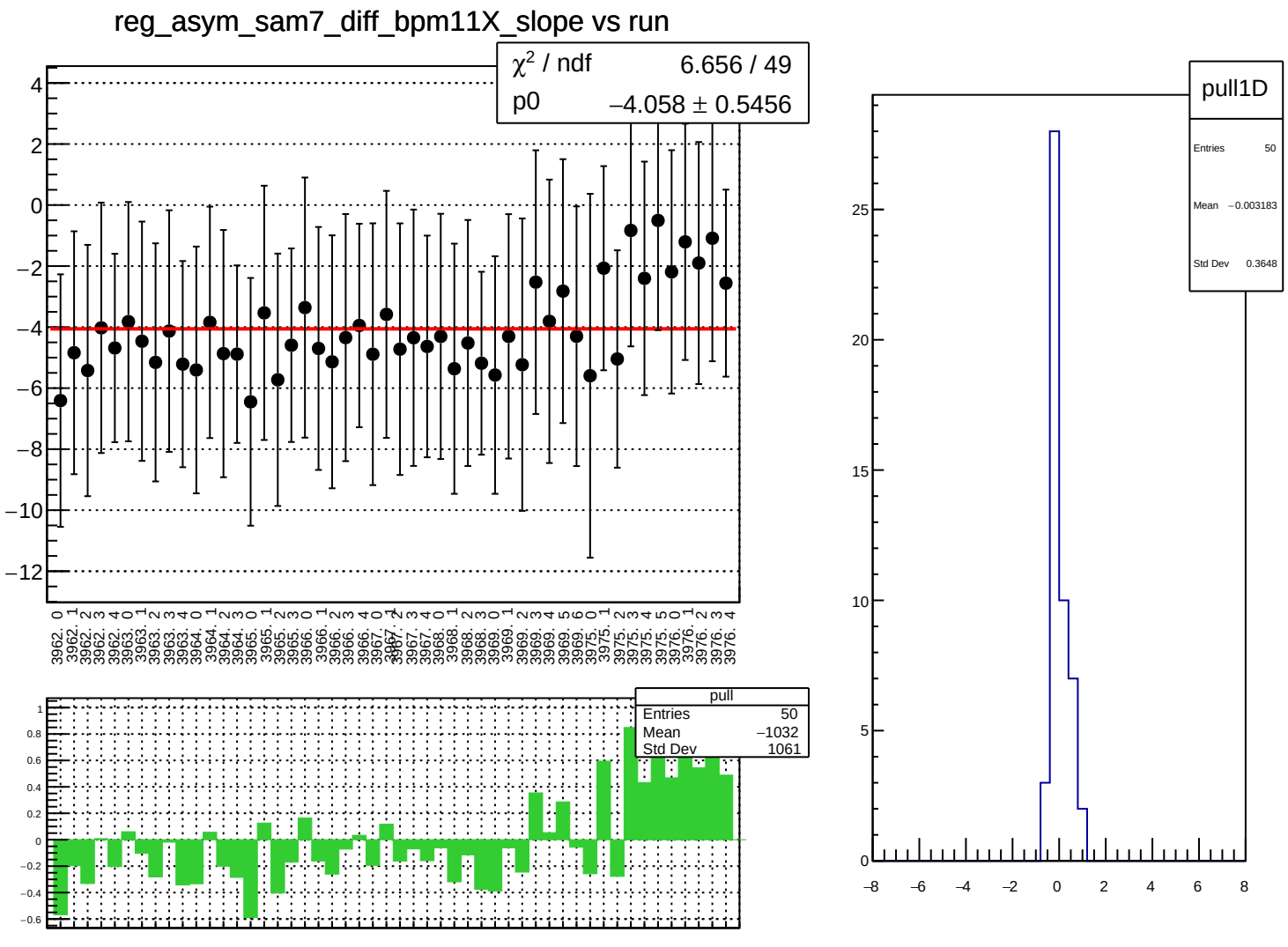

pull1D
Entries 50
Mean 0.003167
Std Dev 0.2726

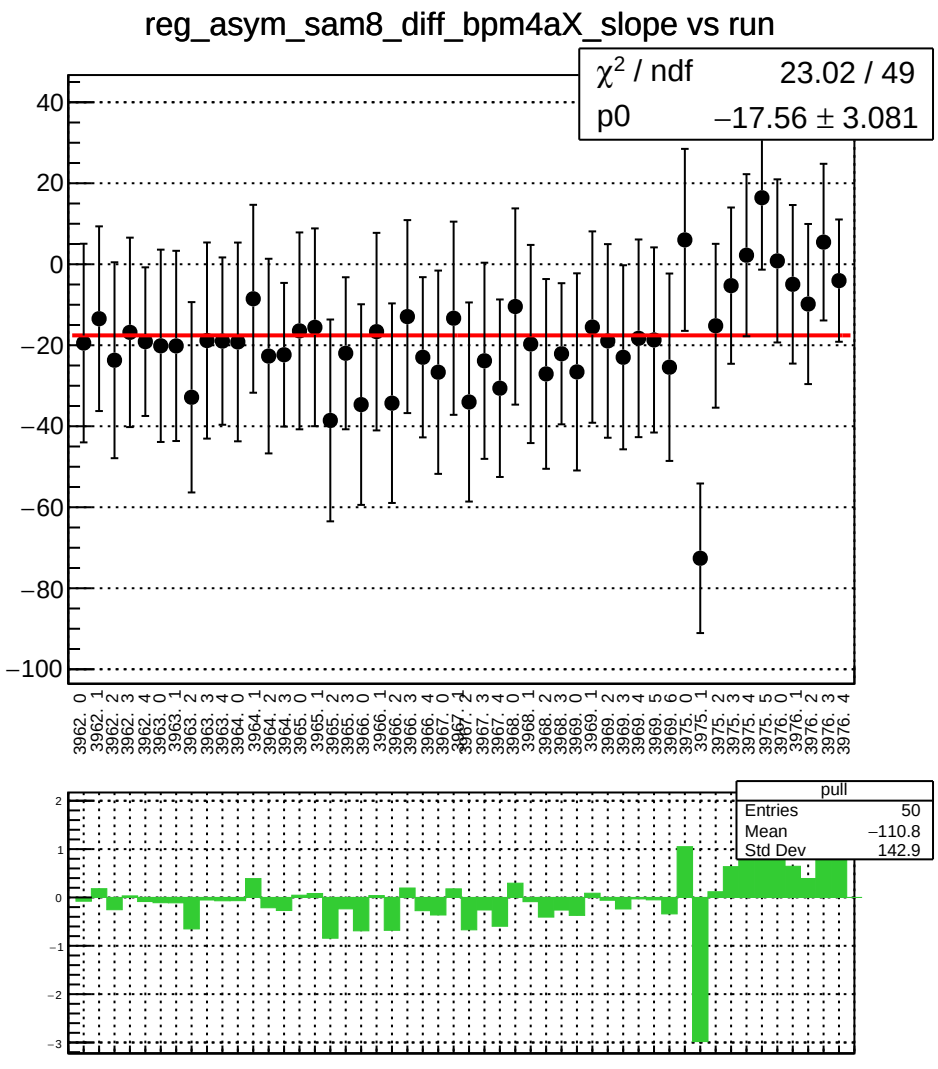

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 95.56 / 49
p0 180.6 ± 0.4797
pull
Entries 50
Mean −8870
Std Dev 8893

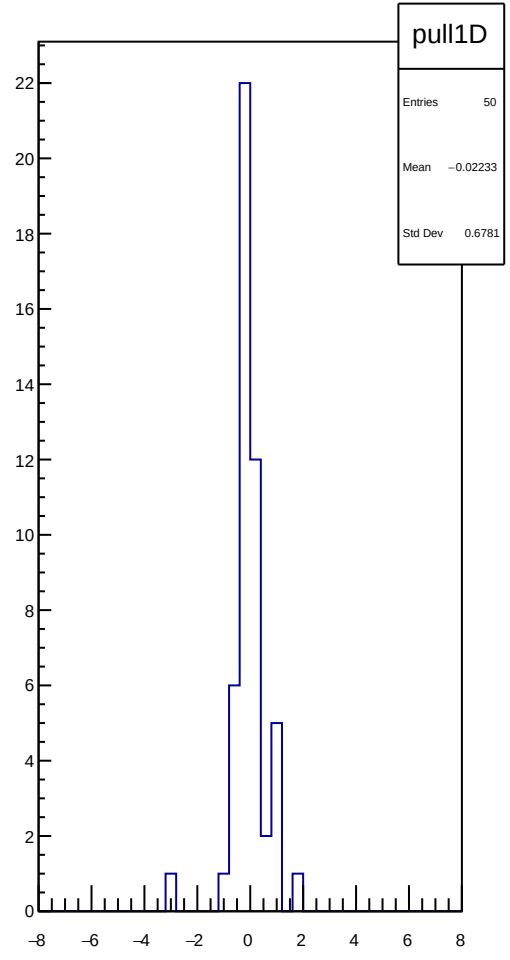

pull1D
Entries 50
Mean −0.001121
Std Dev 1.382

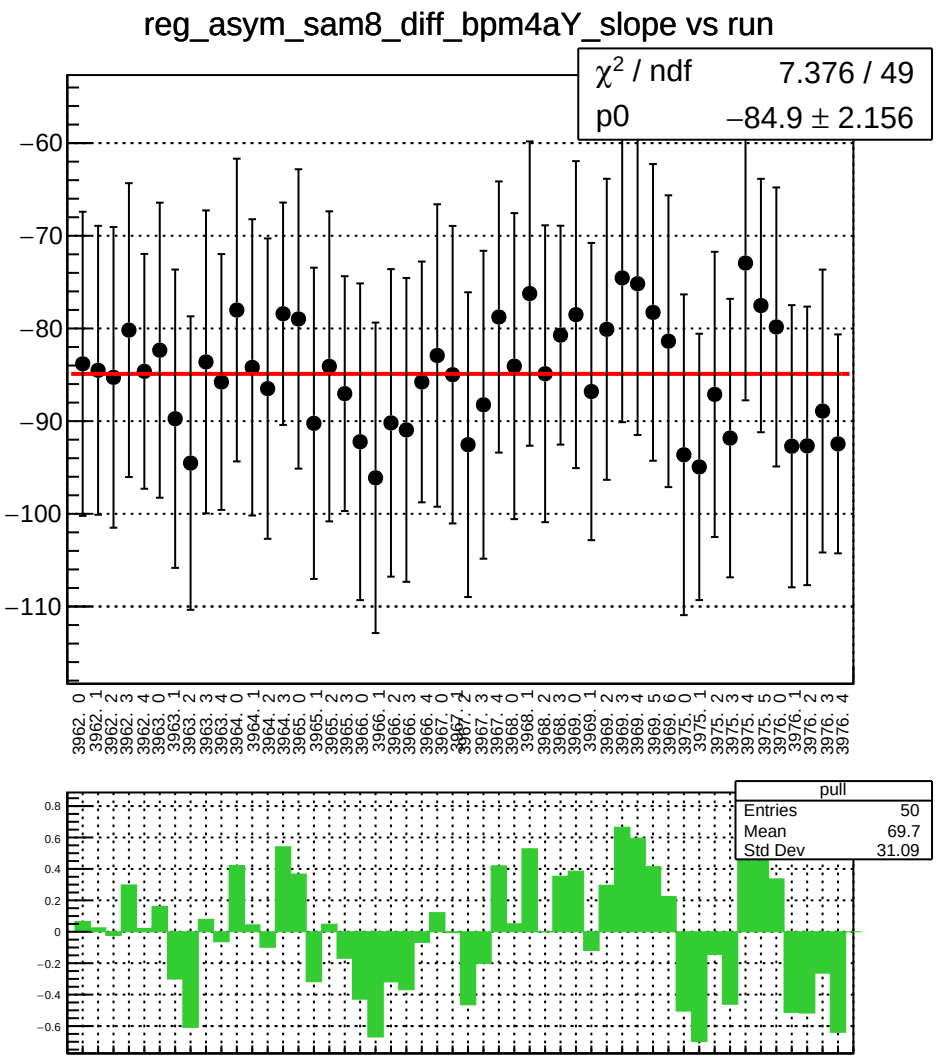

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.788 / 49
p0 −42.61 ± 3.288
pull
Entries 50
Mean −594.9
Std Dev 622.2

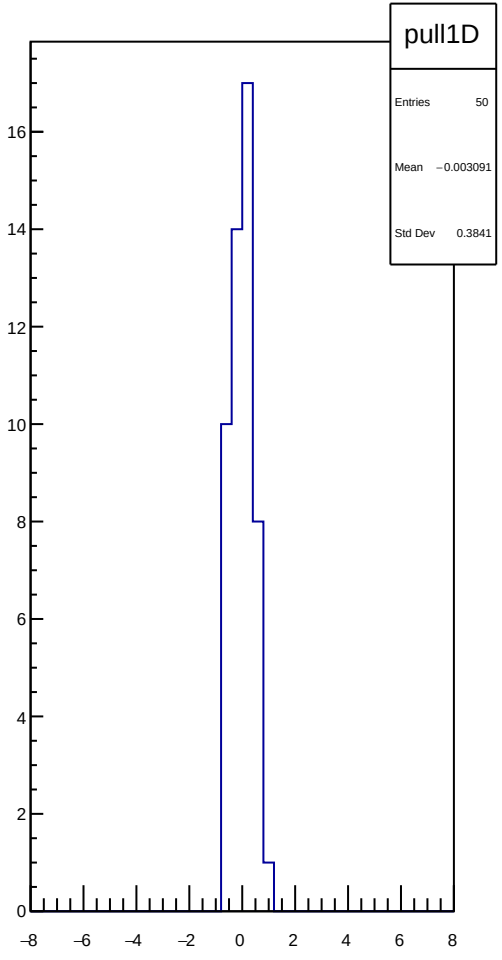

pull1D
Entries 50
Mean −0.003808
Std Dev 0.3094

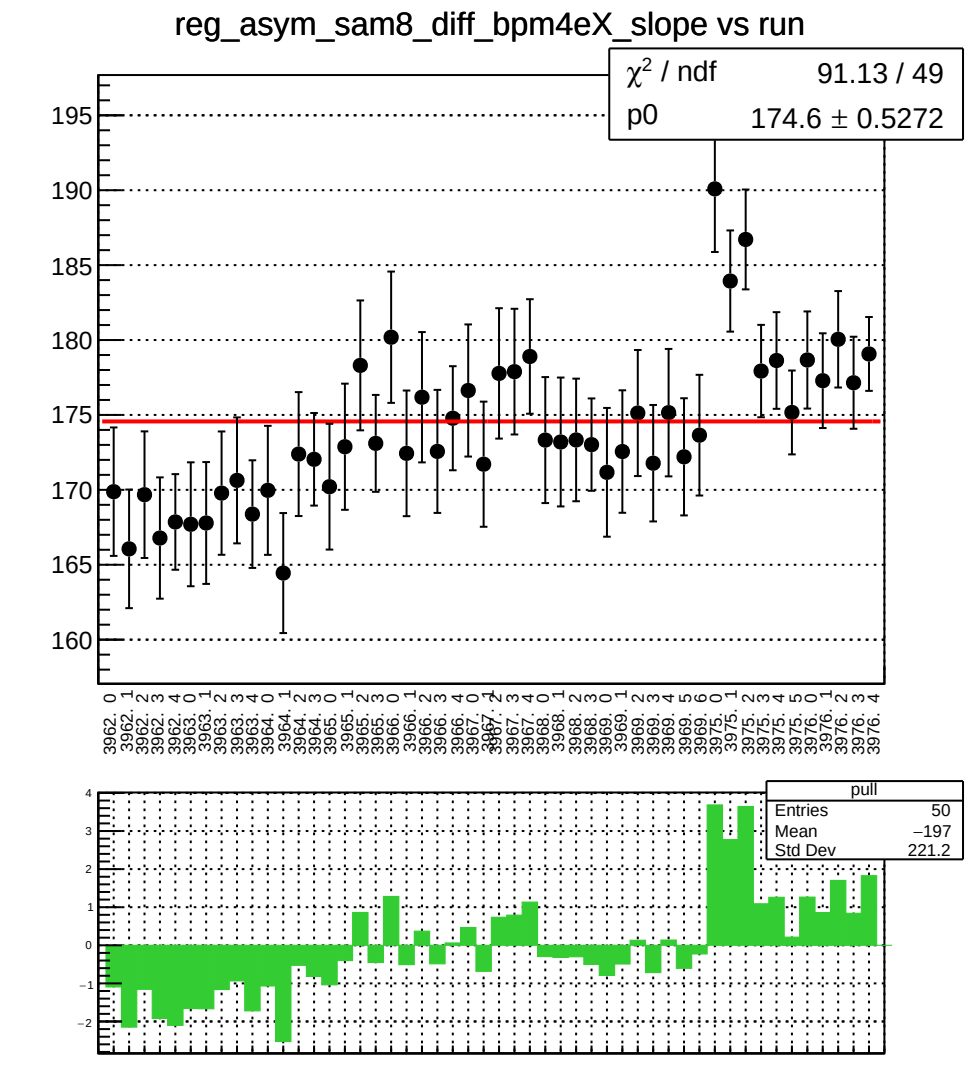

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 6.656 / 49
p0 −4.058 ± 0.5456
pull
Entries 50
Mean −1032
Std Dev 1061
pull1D
Entries 50
Mean −0.003183
Std Dev 0.3648

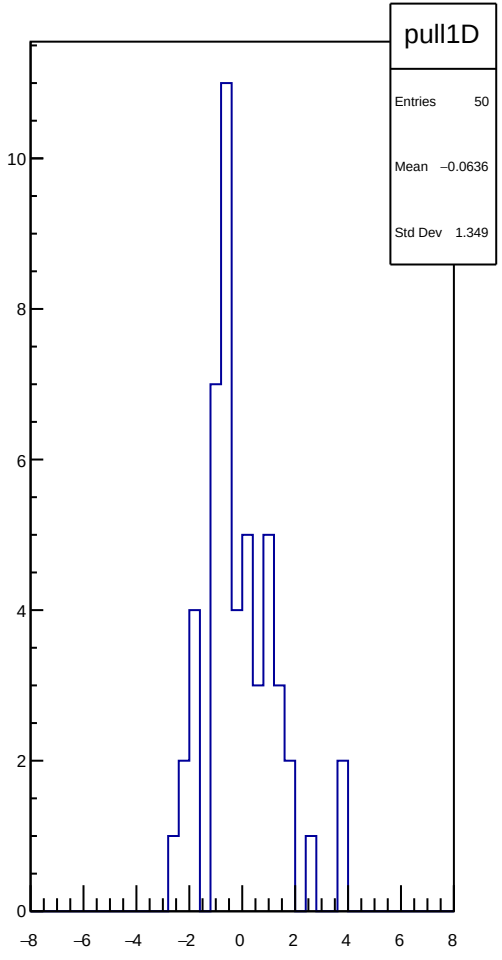

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 23.02 / 49
p0 −17.56 ± 3.081
pull
Entries 50
Mean −110.8
Std Dev 142.9

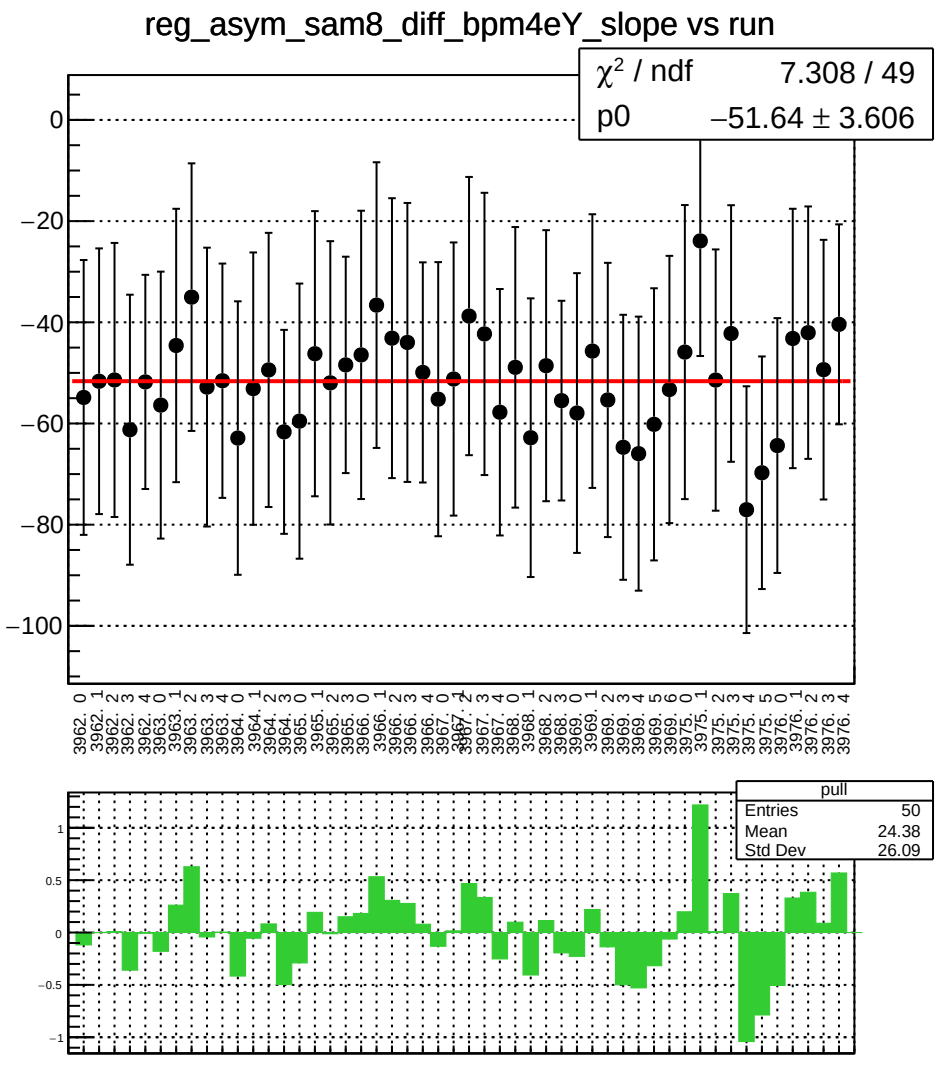

pull1D
Entries 50
Mean −0.02233
Std Dev 0.6781

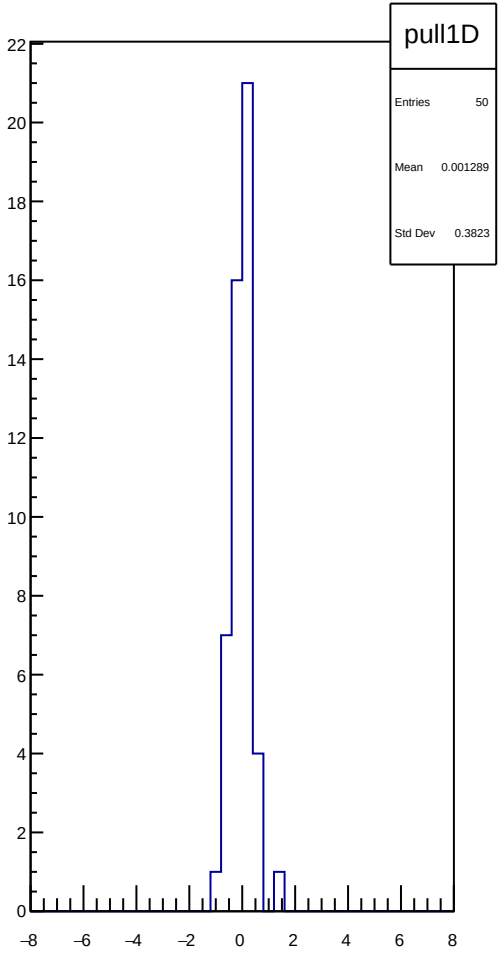

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 7.376 / 49
p0 −84.9 ± 2.156
−60
−70
−80
−90
−100
−110
pull
Entries 50
Mean 69.7
Std Dev 31.09
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

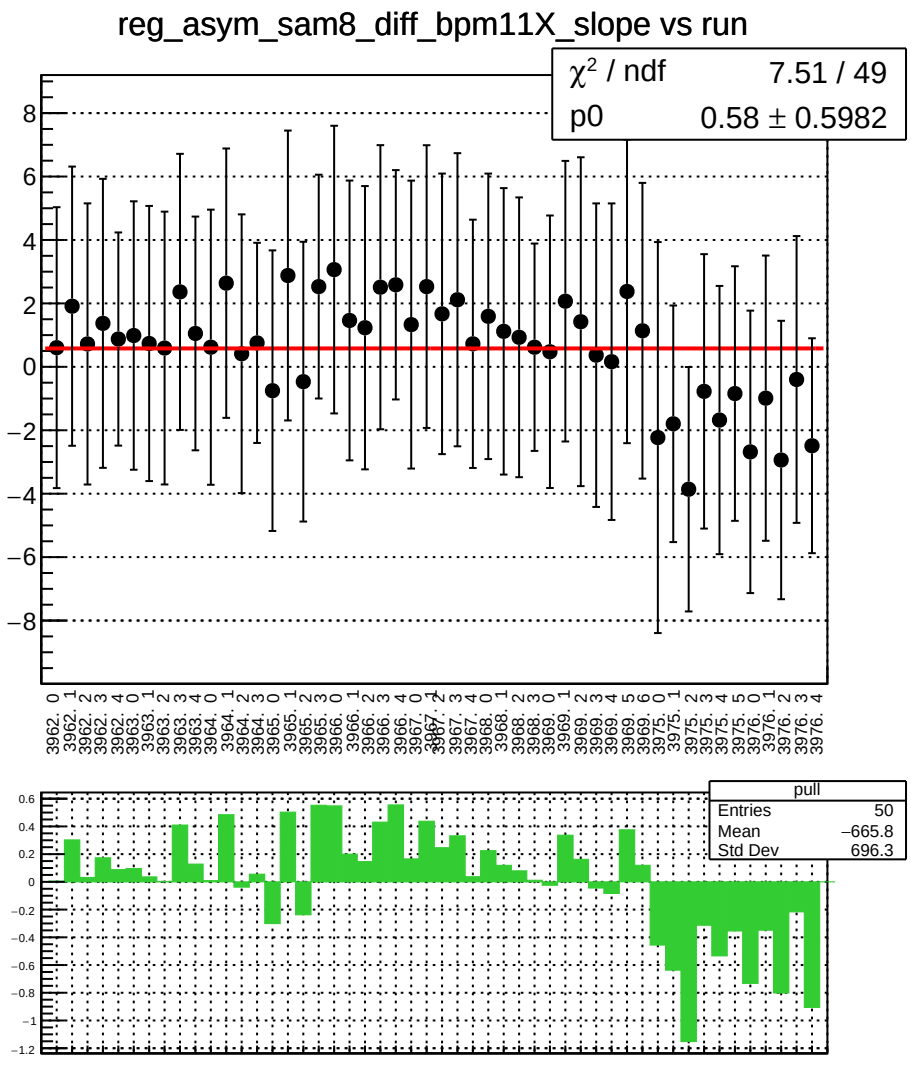

pull1D
Entries 50
Mean −0.003091
Std Dev 0.3841
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

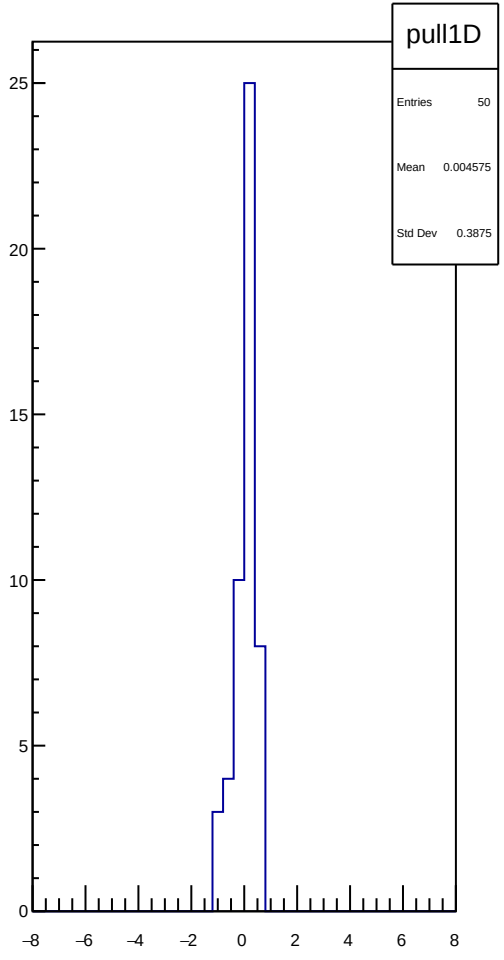

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 91.13 / 49
p0 174.6 ± 0.5272
pull
Entries 50
Mean −197
Std Dev 221.2

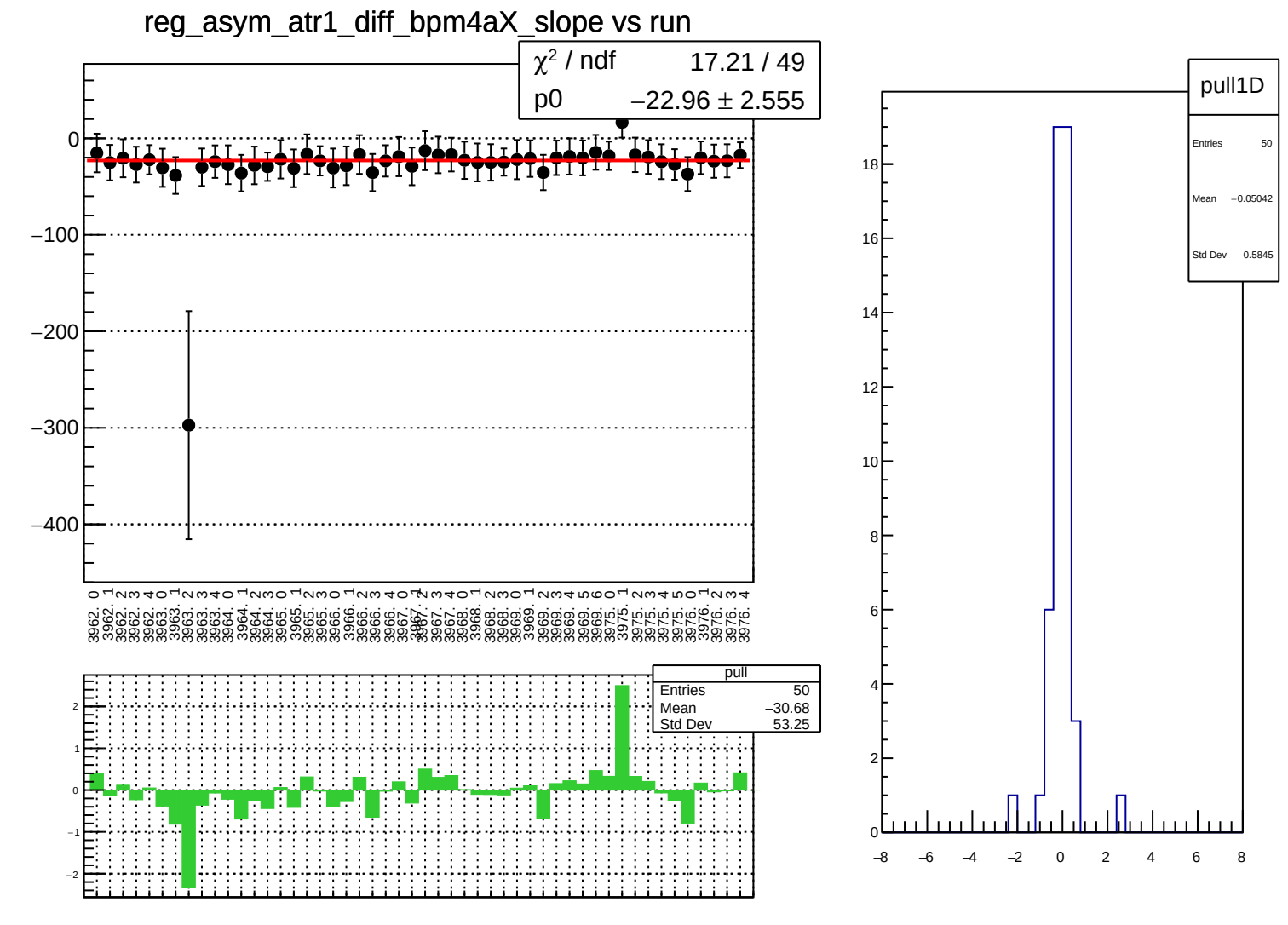

pull1D
Entries 50
Mean −0.0636
Std Dev 1.349

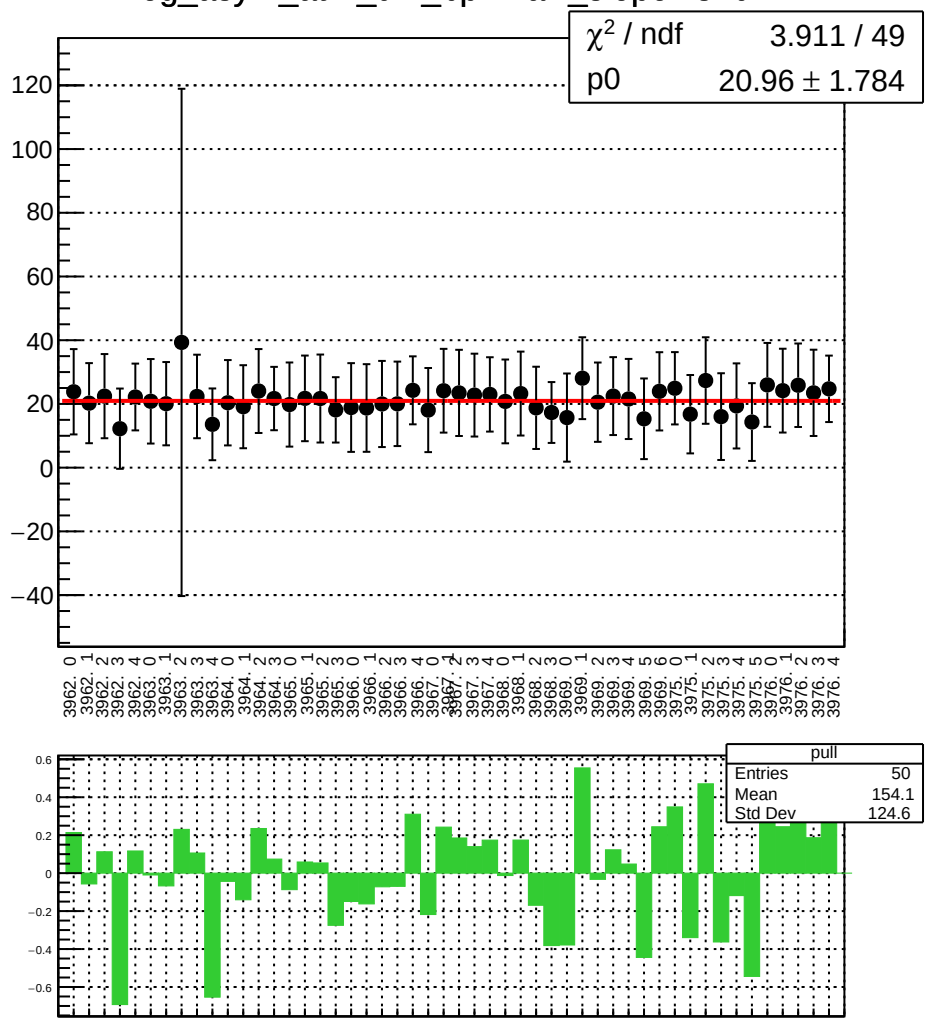

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 7.308 / 49
p0 −51.64 ± 3.606
pull
Entries 50
Mean 24.38
Std Dev 26.09

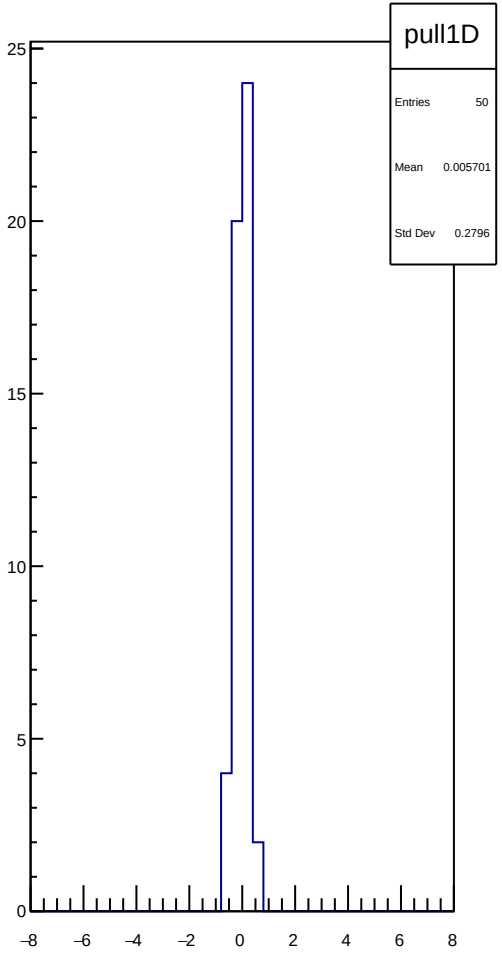

pull1D
Entries 50
Mean 0.001289
Std Dev 0.3823

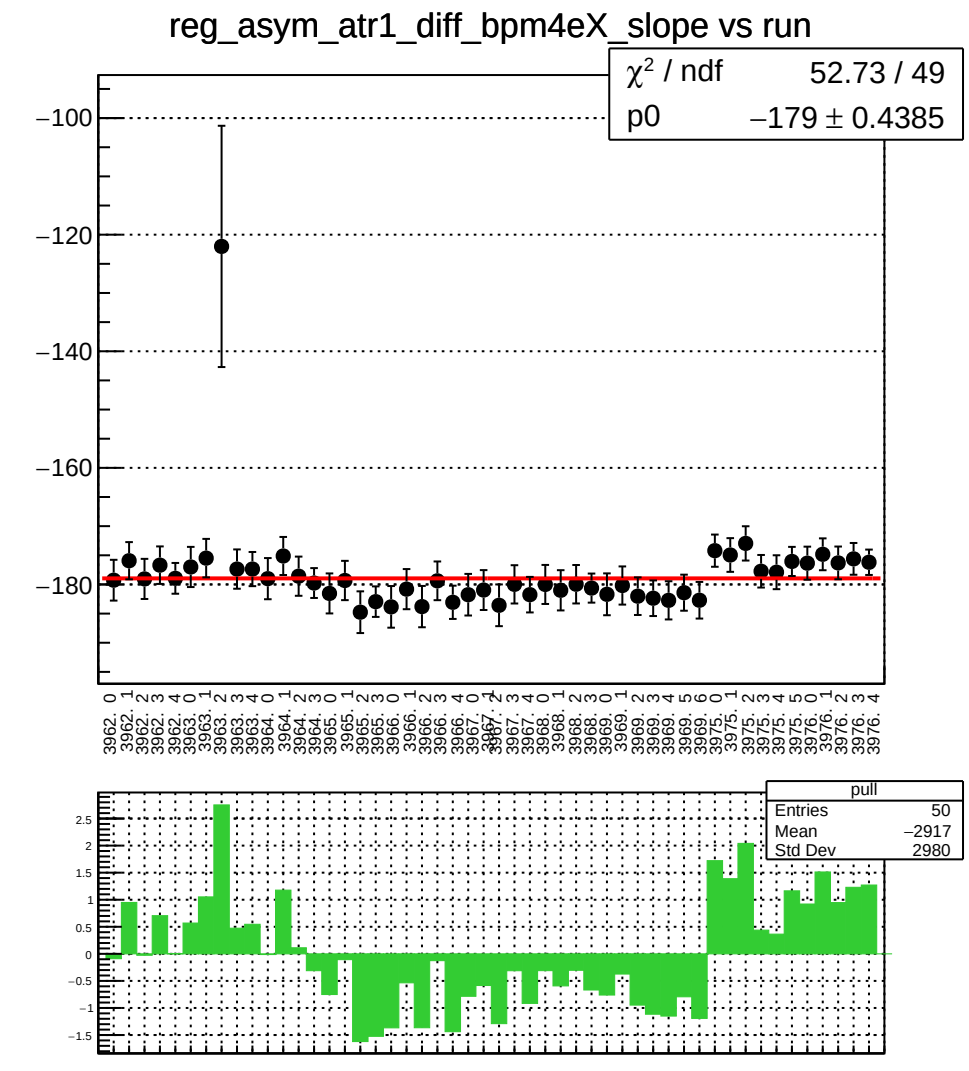

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 7.51 / 49
p0 0.58 ± 0.5982
pull
Entries 50
Mean −665.8
Std Dev 696.3

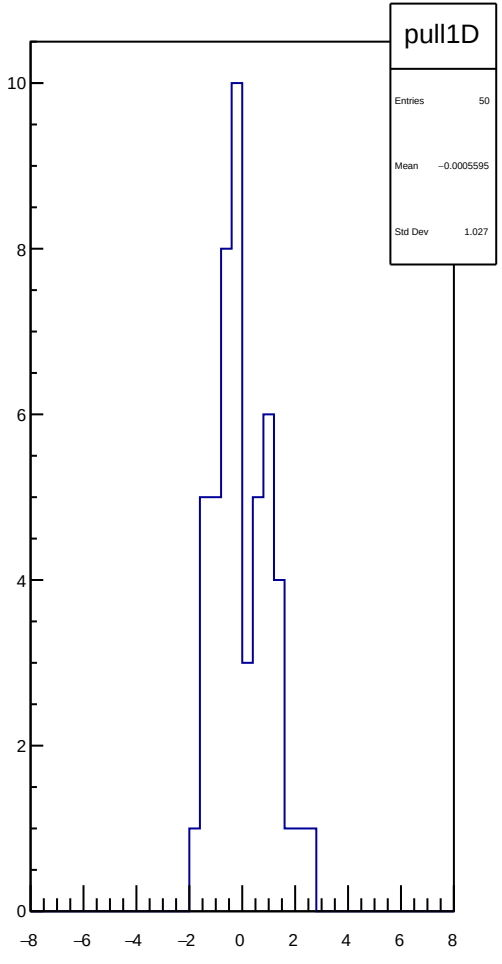

pull1D
Entries 50
Mean 0.004575
Std Dev 0.3875

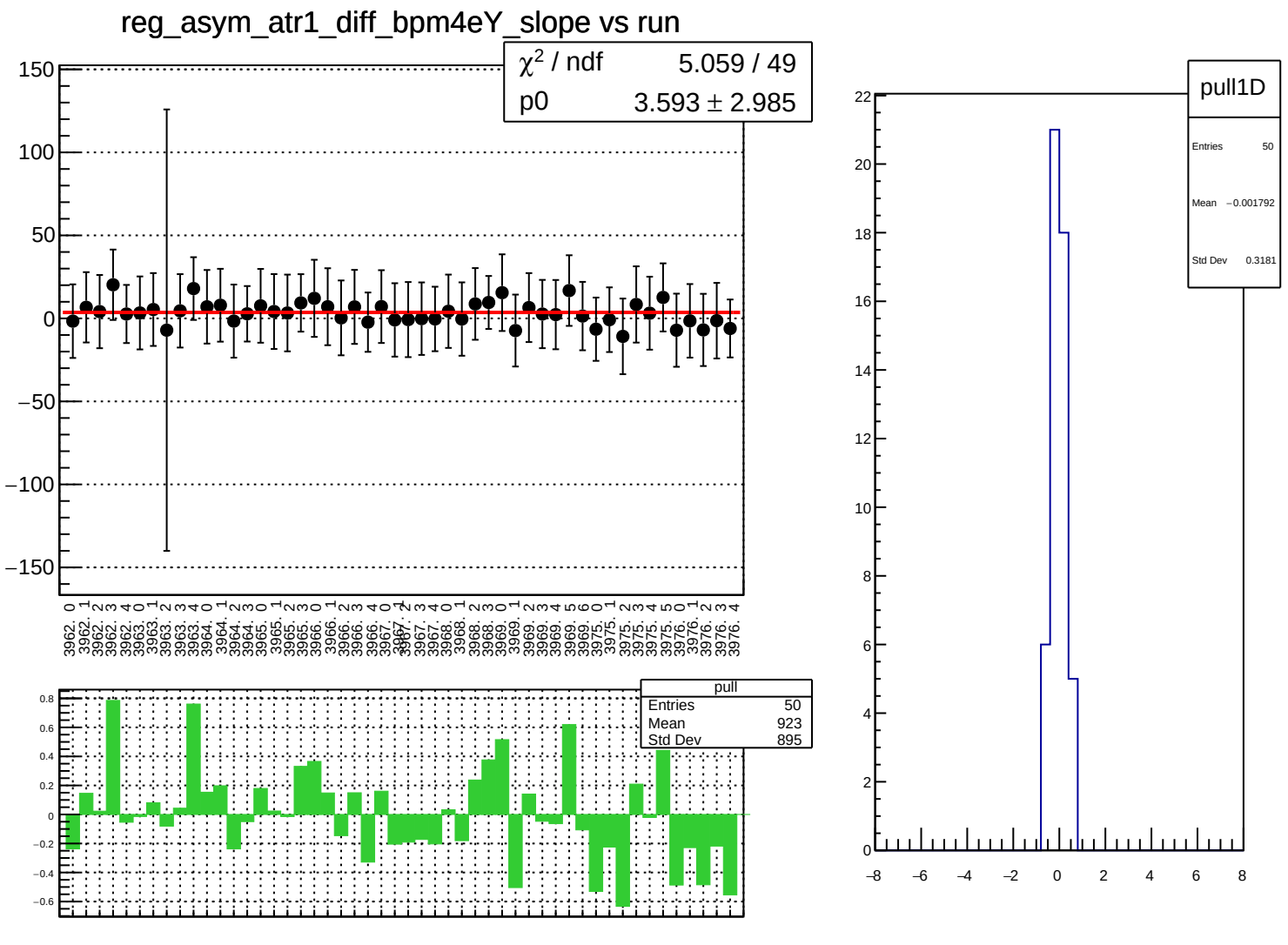

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 17.21 / 49
p0 −22.96 ± 2.555
pull
Entries 50
Mean −30.68
Std Dev 53.25
pull1D
Entries 50
Mean −0.05042
Std Dev 0.5845

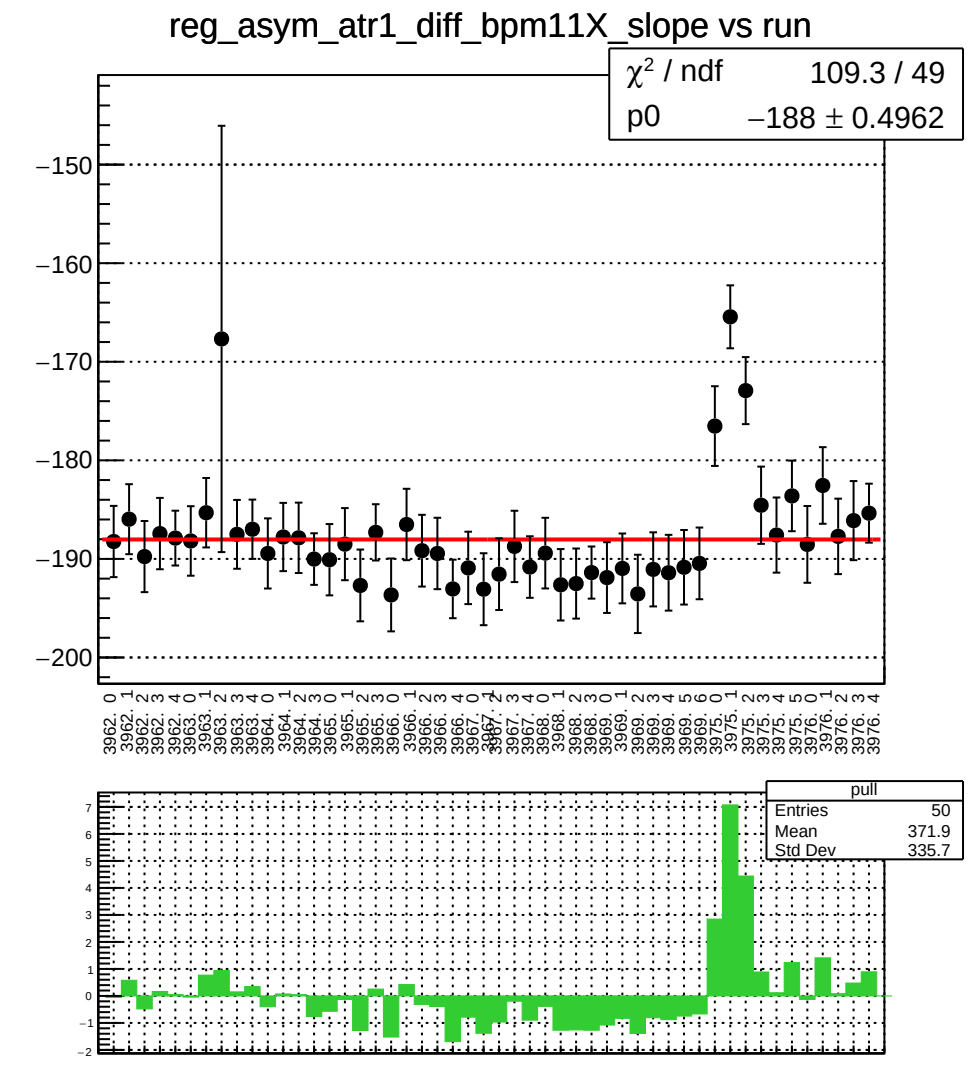

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 3.911 / 49
p0 20.96 ± 1.784
pull
Entries 50
Mean 154.1
Std Dev 124.6

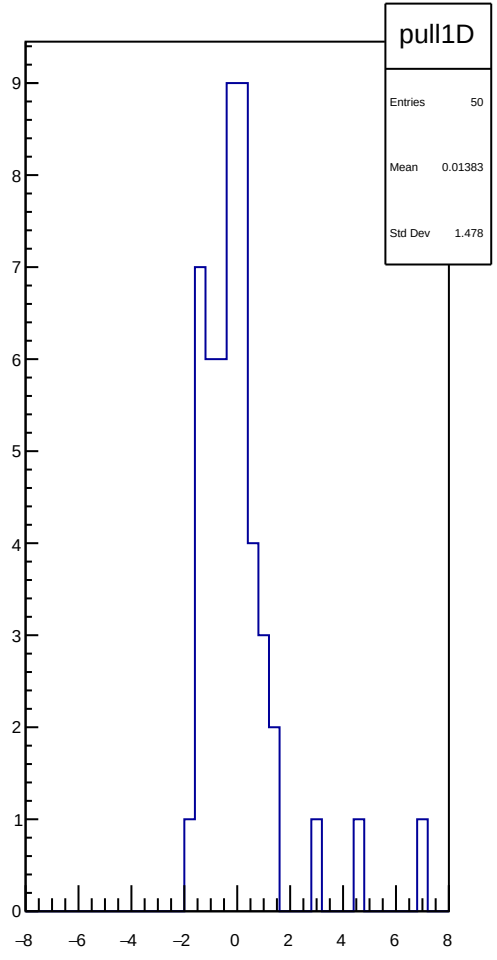

pull1D
Entries 50
Mean 0.005701
Std Dev 0.2796

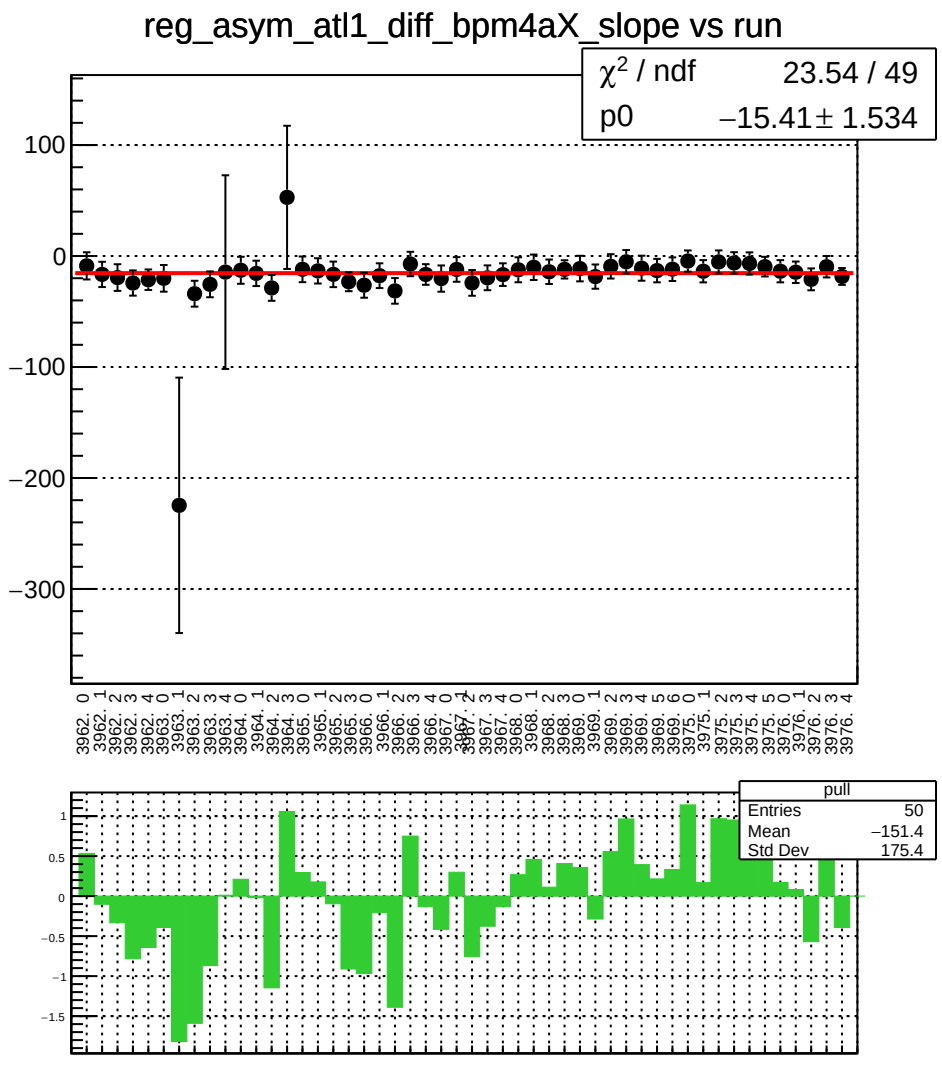

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 52.73 / 49
p0 −179 ± 0.4385
−100
−120
−140
−160
−180
pull
Entries 50
Mean −2917
Std Dev 2980
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

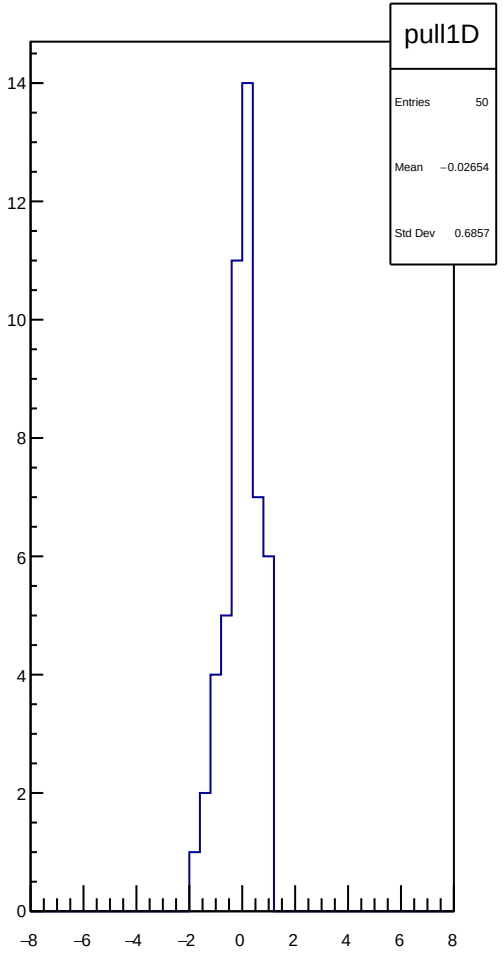

pull1D
Entries 50
Mean −0.0005595
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

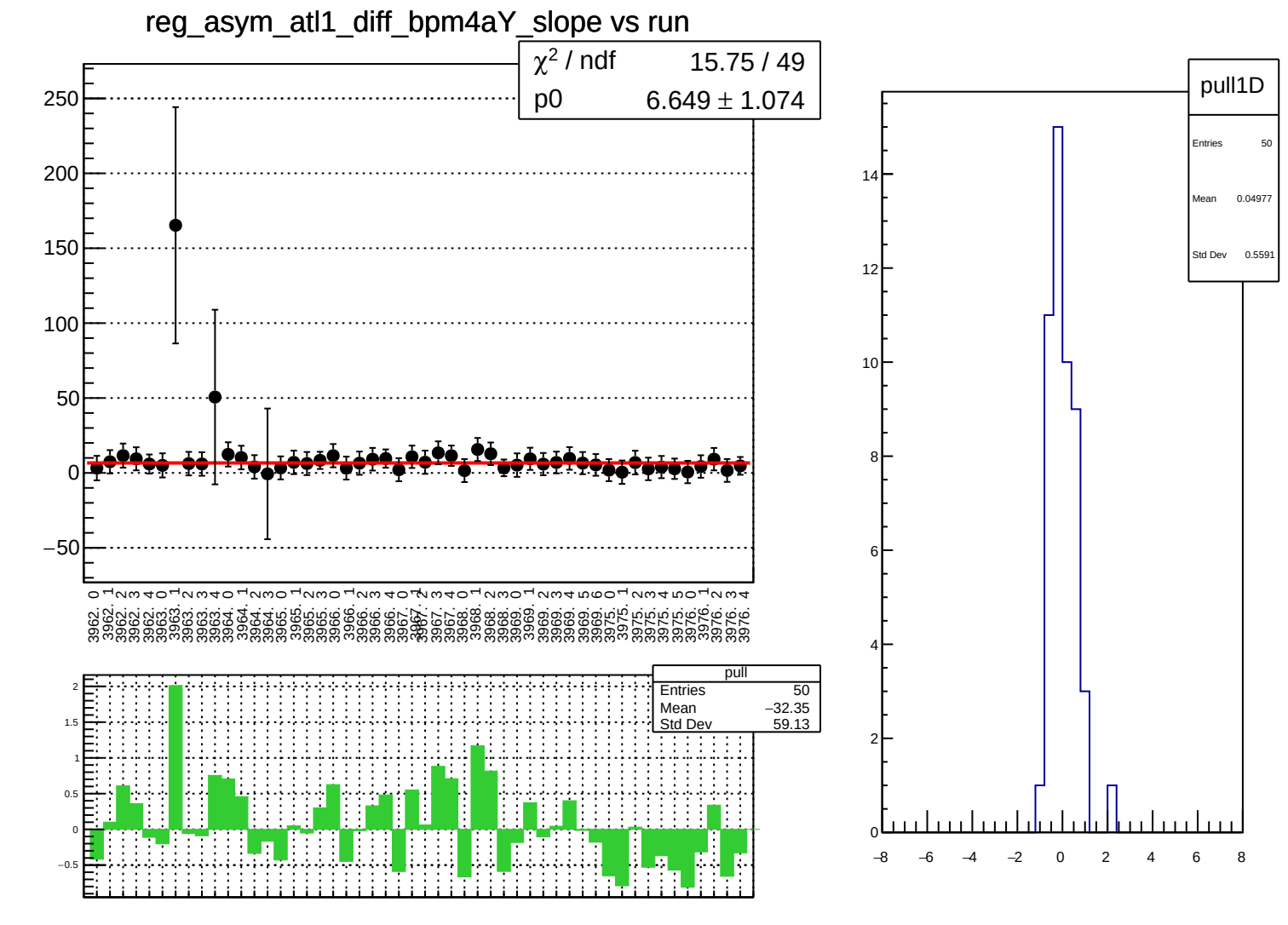

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 5.059 / 49
p0 3.593 ± 2.985
pull
Entries 50
Mean 923
Std Dev 895
pull1D
Entries 50
Mean −0.001792
Std Dev 0.3181

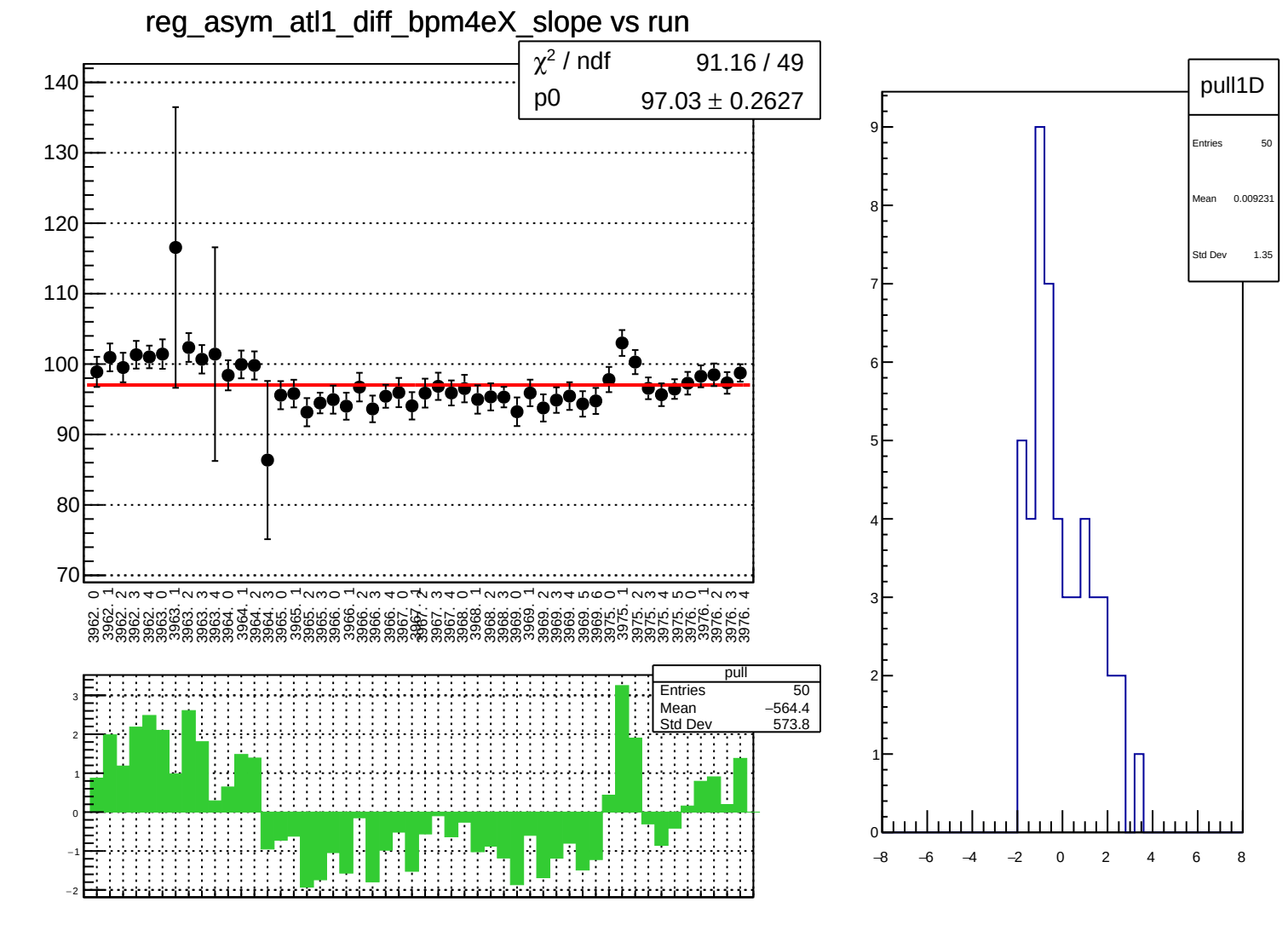

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 109.3 / 49
p0 −188 ± 0.4962
pull
Entries 50
Mean 371.9
Std Dev 335.7

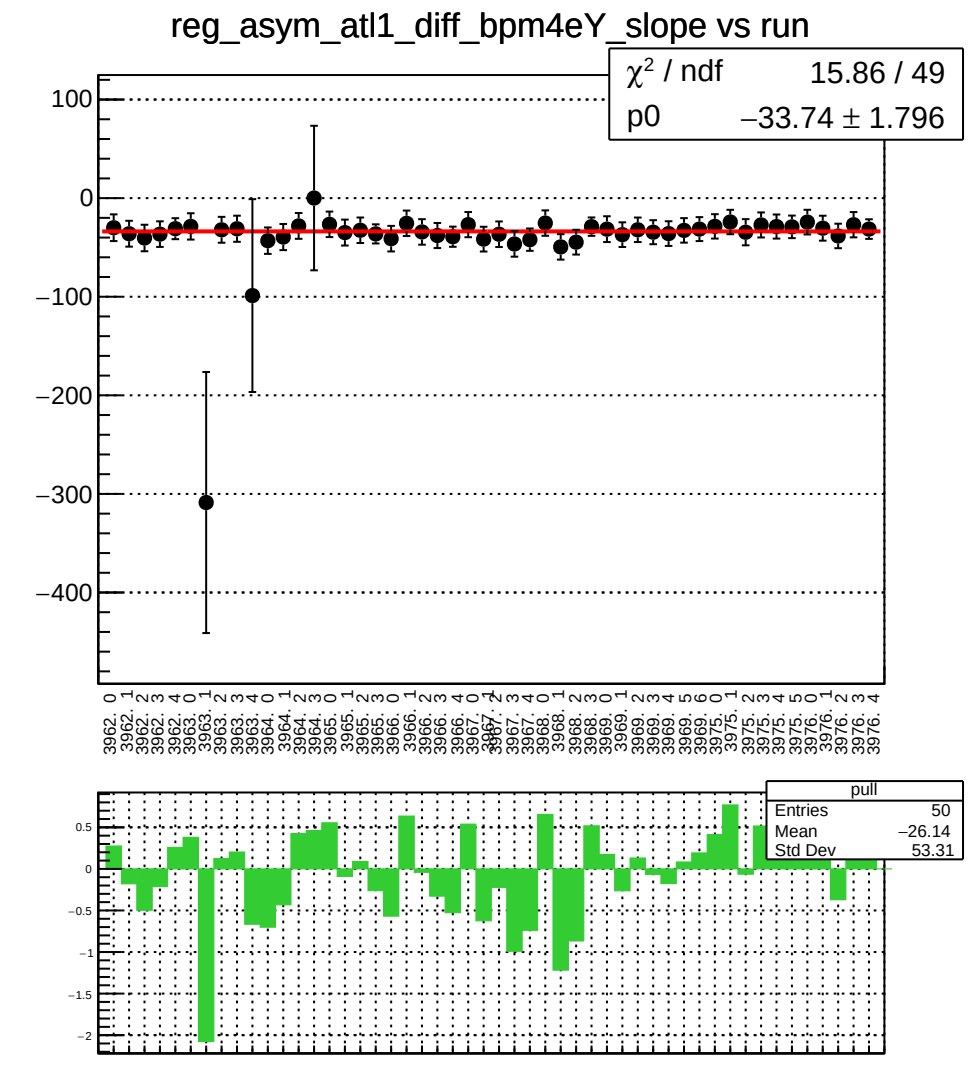

pull1D
Entries 50
Mean 0.01383
Std Dev 1.478

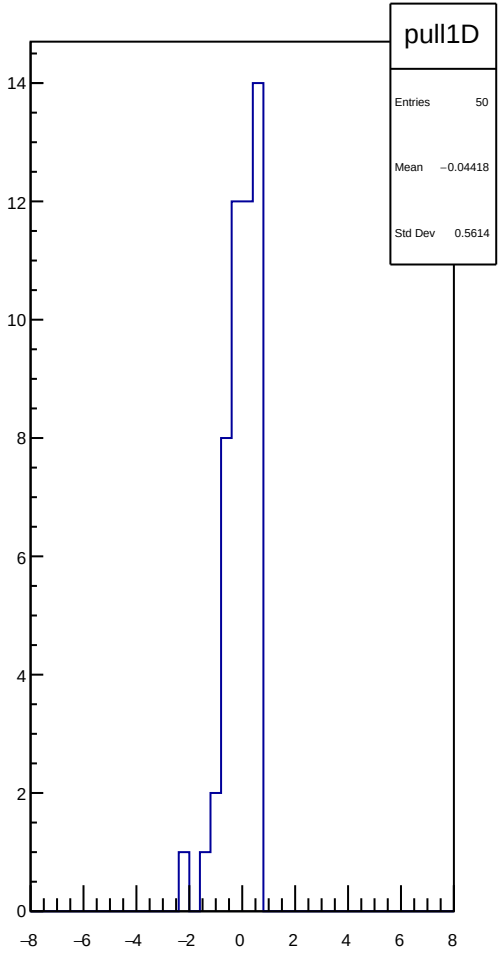

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 23.54 / 49
p0 −15.41 ± 1.534
100
0
−100
−200
−300
pull
Entries 50
Mean −151.4
Std Dev 175.4
1
0.5
0
−0.5
−1
−1.5

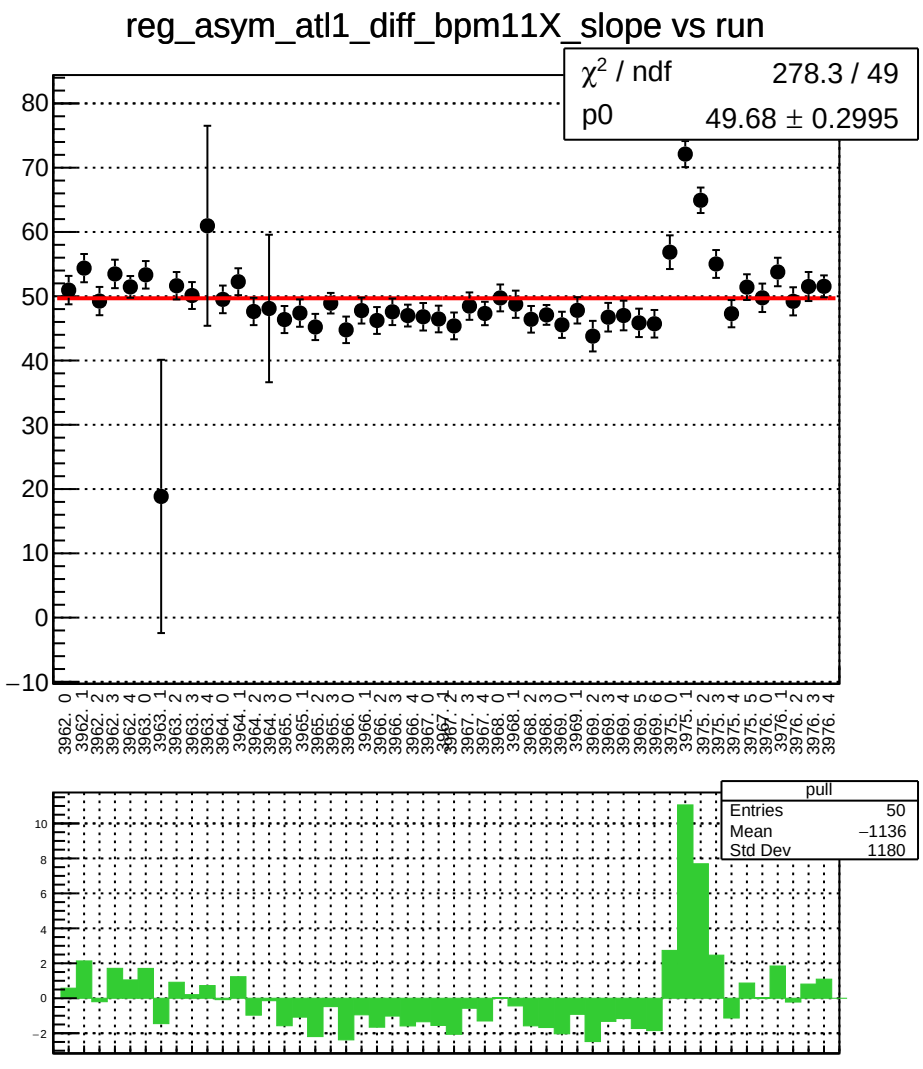

pull1D
Entries 50
Mean −0.02654
Std Dev 0.6857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

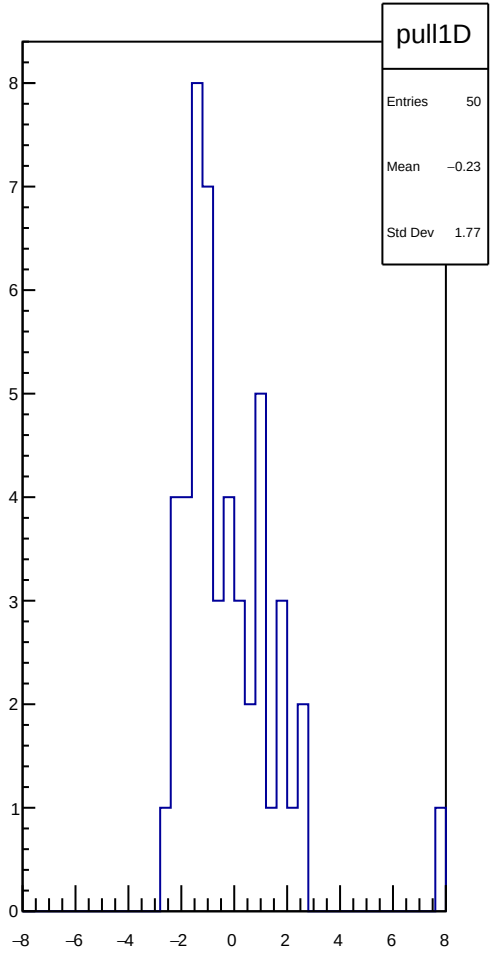

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 15.75 / 49
p0 6.649 ± 1.074
pull
Entries 50
Mean −32.35
Std Dev 59.13
pull1D
Entries 50
Mean 0.04977
Std Dev 0.5591

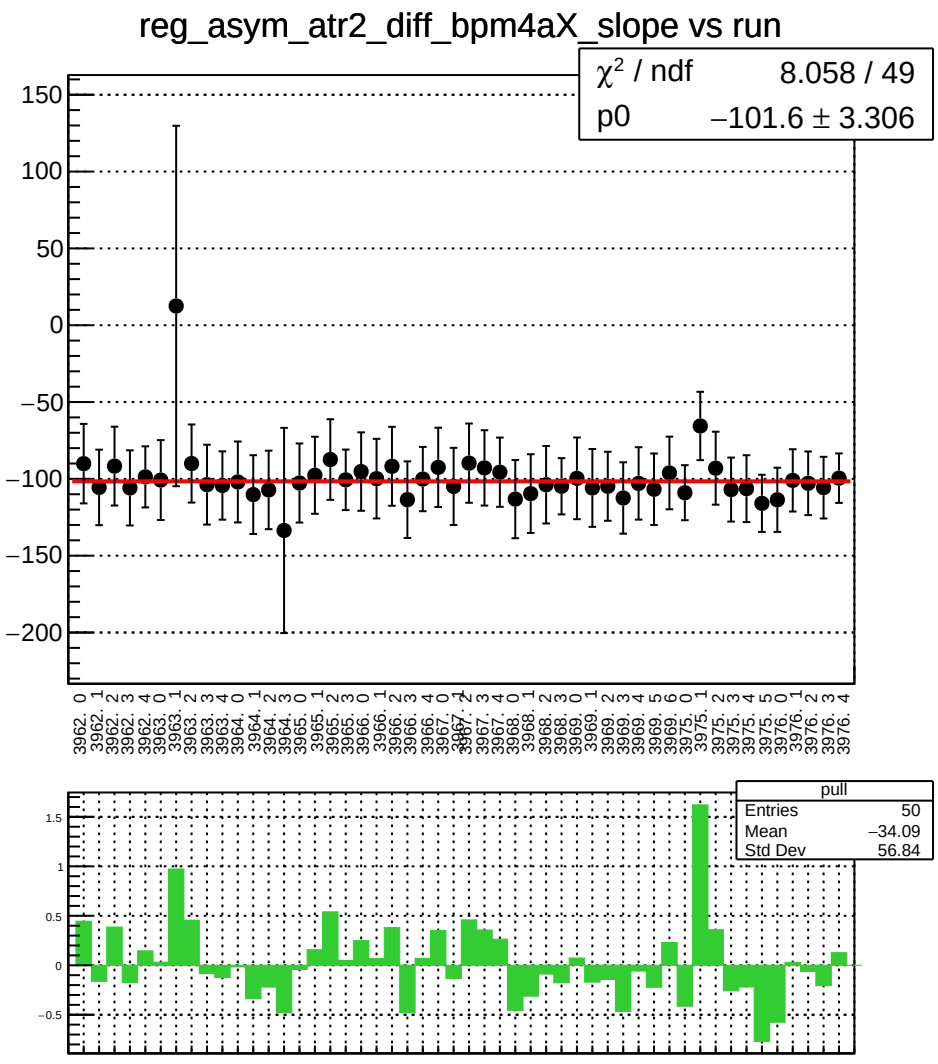

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 91.16 / 49
p0 97.03 ± 0.2627
pull
Entries 50
Mean −564.4
Std Dev 573.8
pull1D
Entries 50
Mean 0.009231
Std Dev 1.35

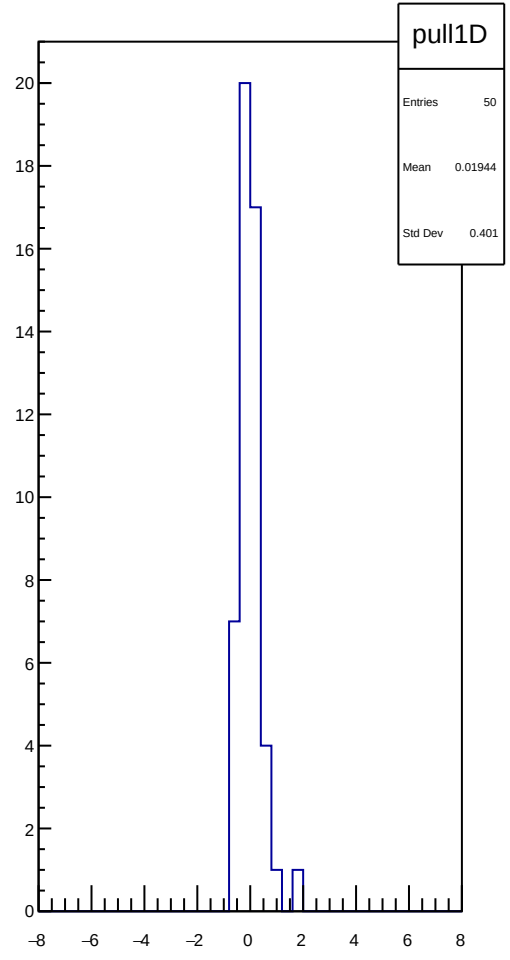

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 15.86 / 49
p0 −33.74 ± 1.796
pull
Entries 50
Mean −26.14
Std Dev 53.31

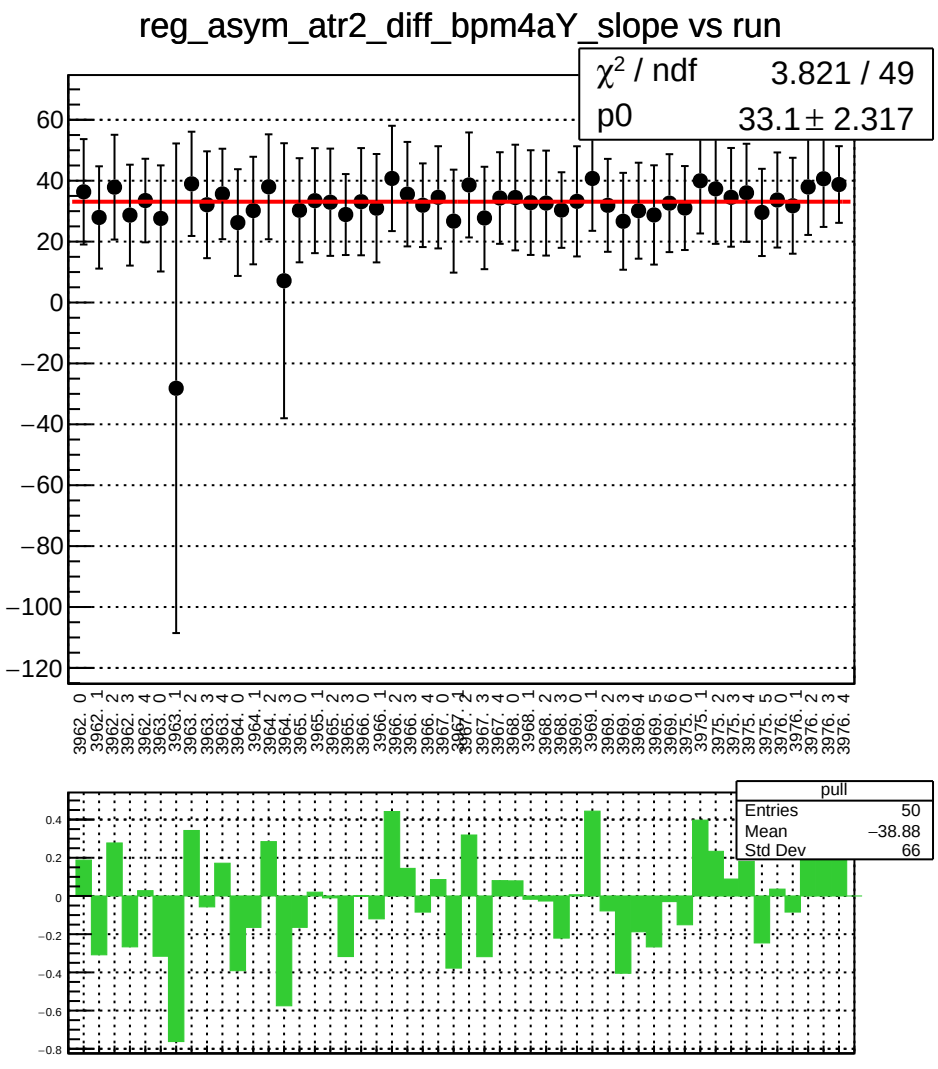

pull1D
Entries 50
Mean −0.04418
Std Dev 0.5614

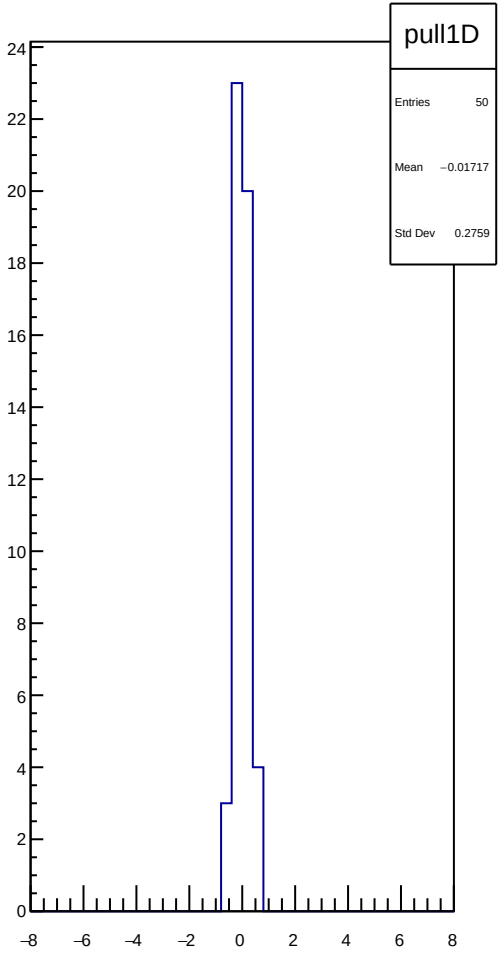

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 278.3 / 49
p0 49.68 ± 0.2995
pull
Entries 50
Mean −1136
Std Dev 1180

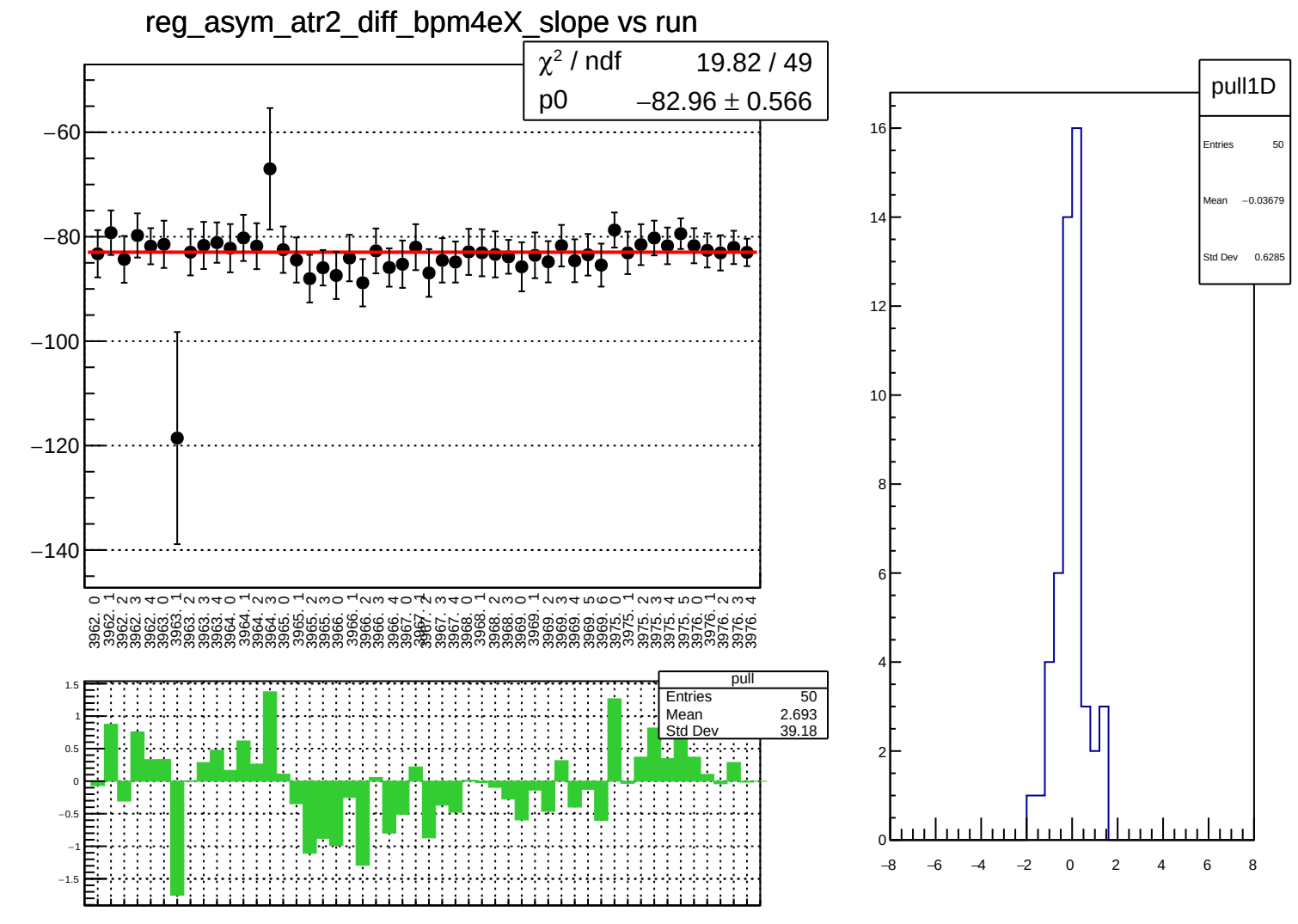

pull1D
Entries 50
Mean −0.23
Std Dev 1.77

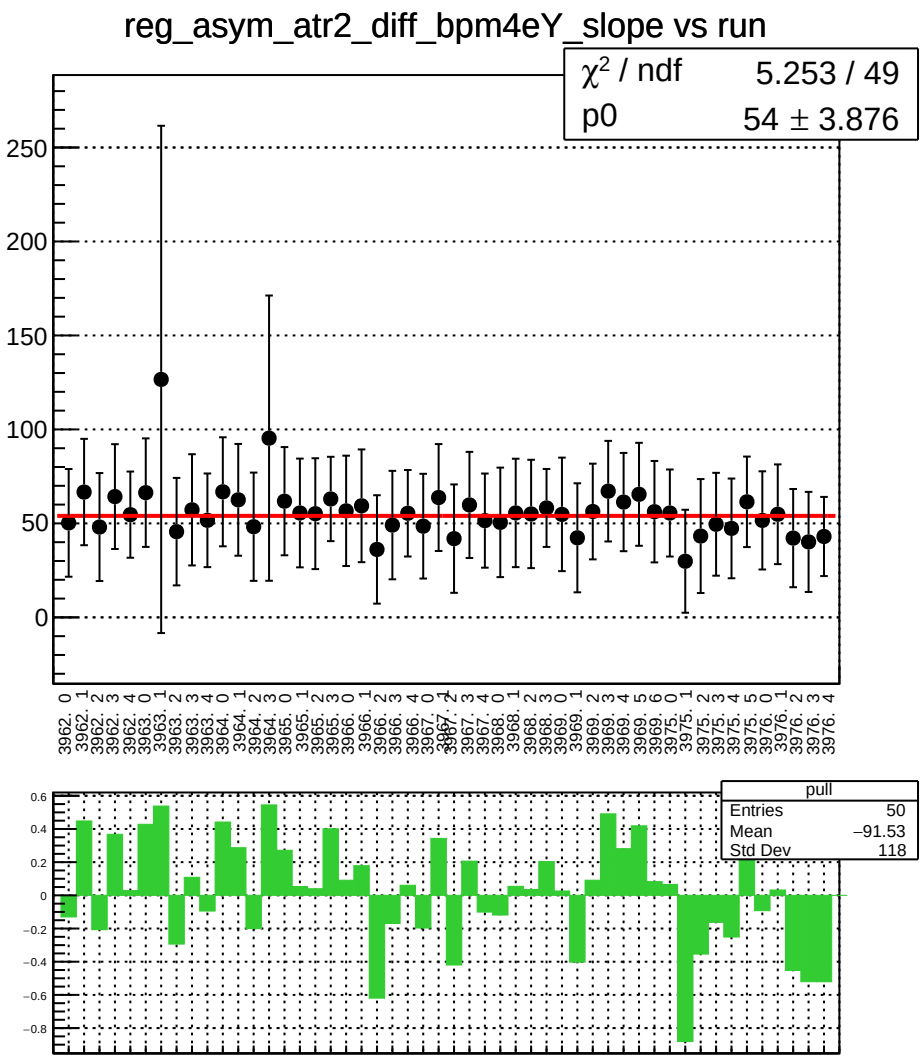

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 8.058 / 49
p0 −101.6 ± 3.306
150
100
50
0
−50
−100
−150
−200
pull
Entries 50
Mean −34.09
Std Dev 56.84
1.5
1
0.5
0
−0.5

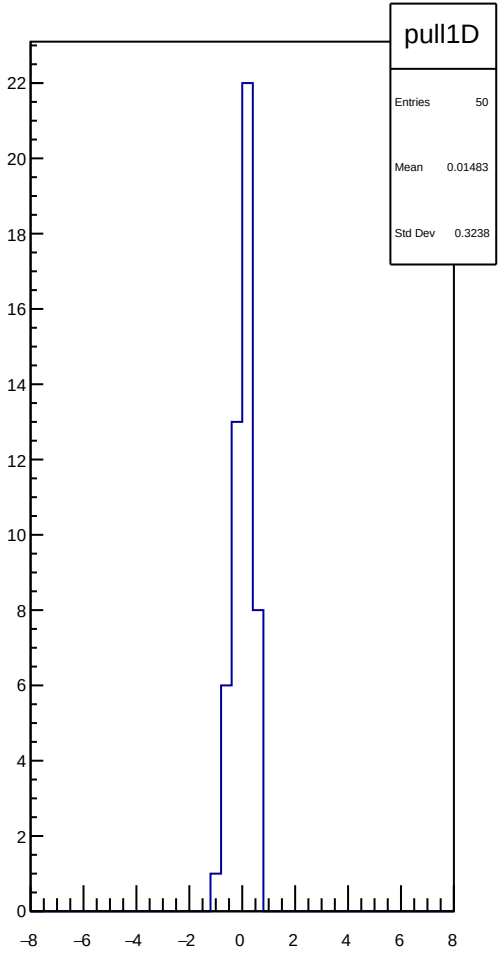

pull1D
Entries 50
Mean 0.01944
Std Dev 0.401
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

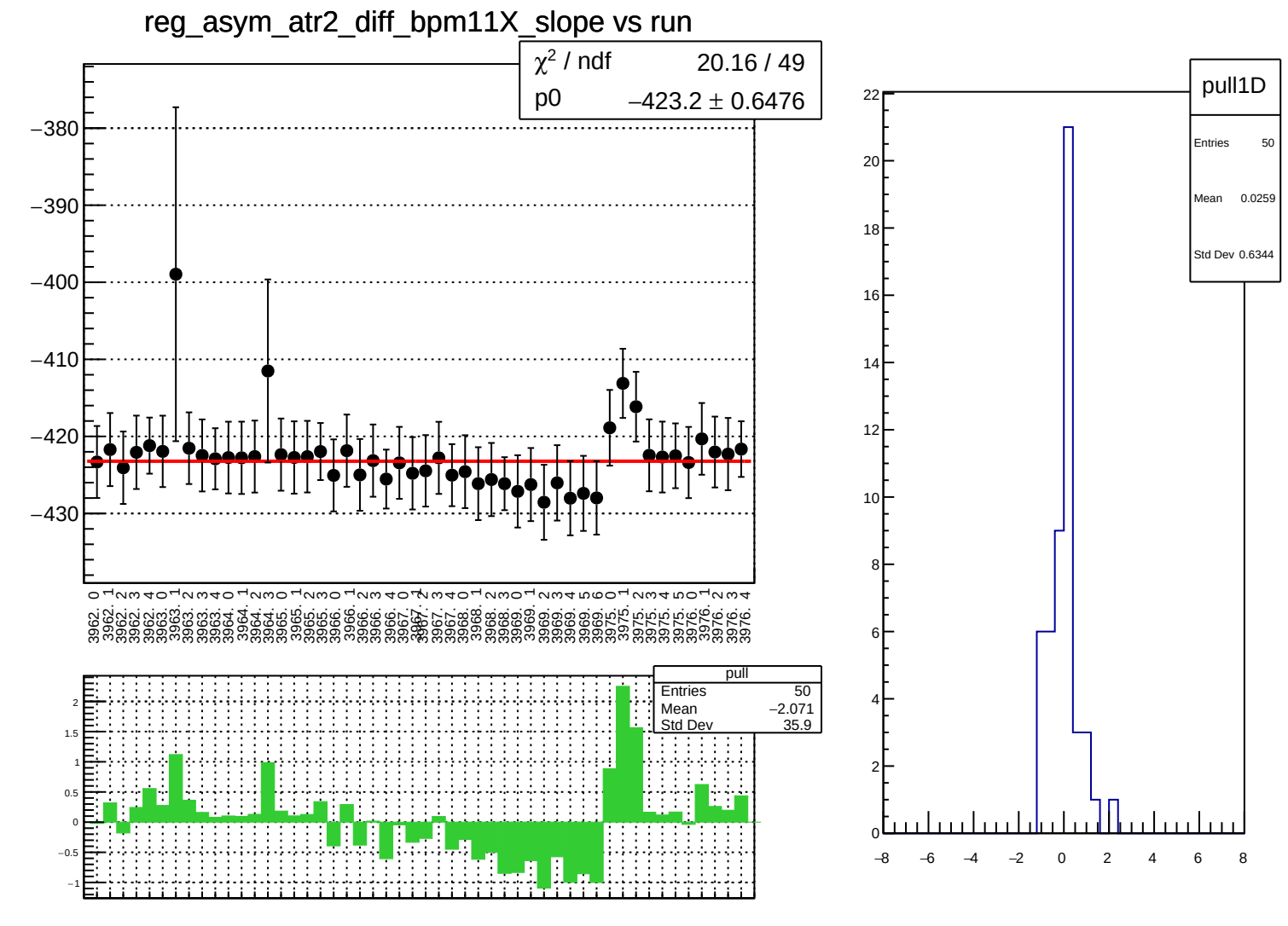

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.821 / 49
p0 33.1 ± 2.317
pull
Entries 50
Mean −38.88
Std Dev 66

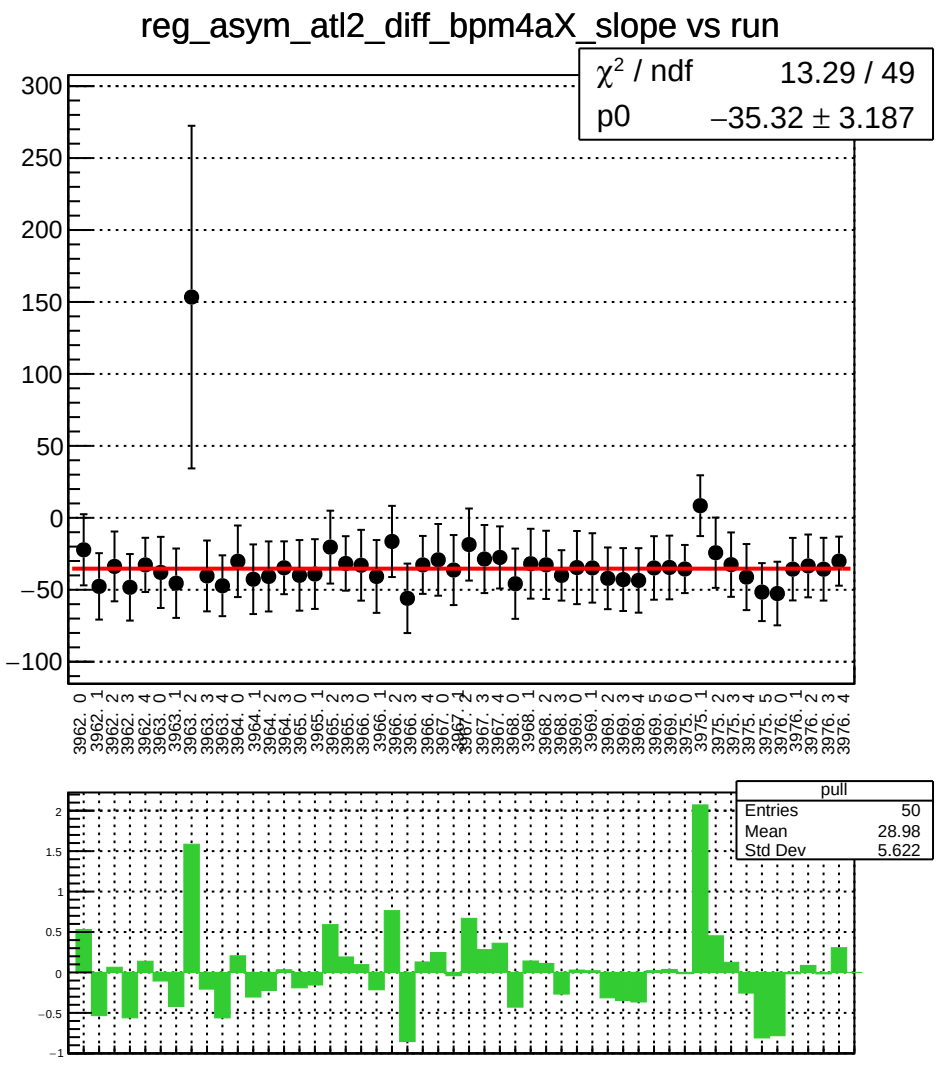

pull1D
Entries 50
Mean −0.01717
Std Dev 0.2759

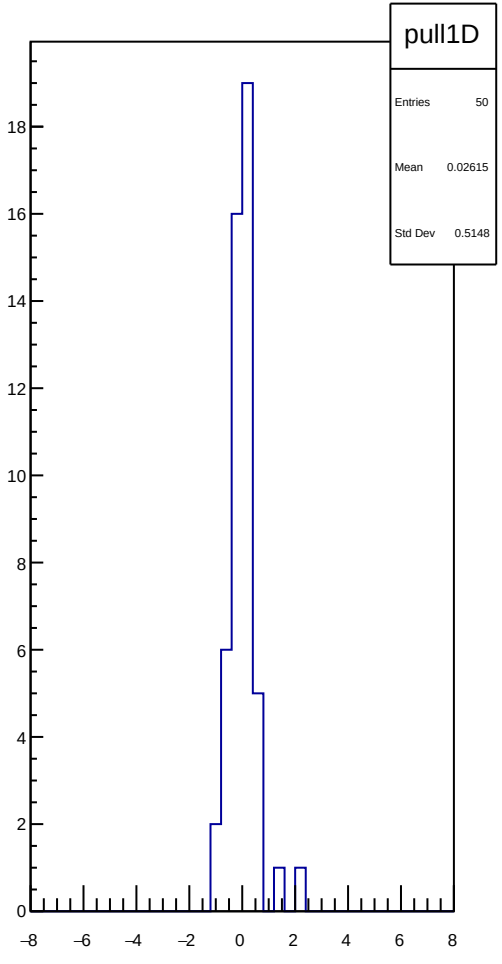

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 19.82 / 49
p0 −82.96 ± 0.566
−60
−80
−100
−120
−140
pull
Entries 50
Mean 2.693
Std Dev 39.18
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.03679
Std Dev 0.6285
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

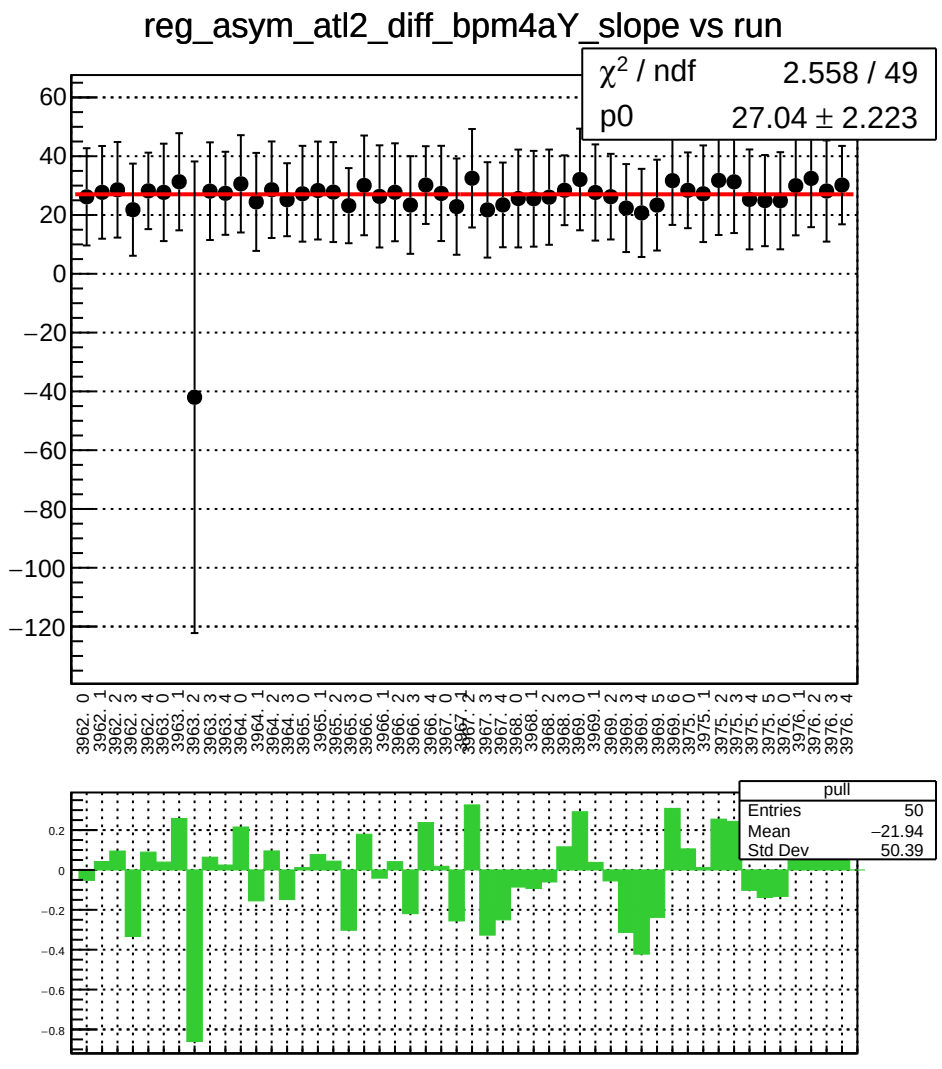

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 5.253 / 49
p0 54 ± 3.876
250
200
150
100
50
0
pull
Entries 50
Mean −91.53
Std Dev 118
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

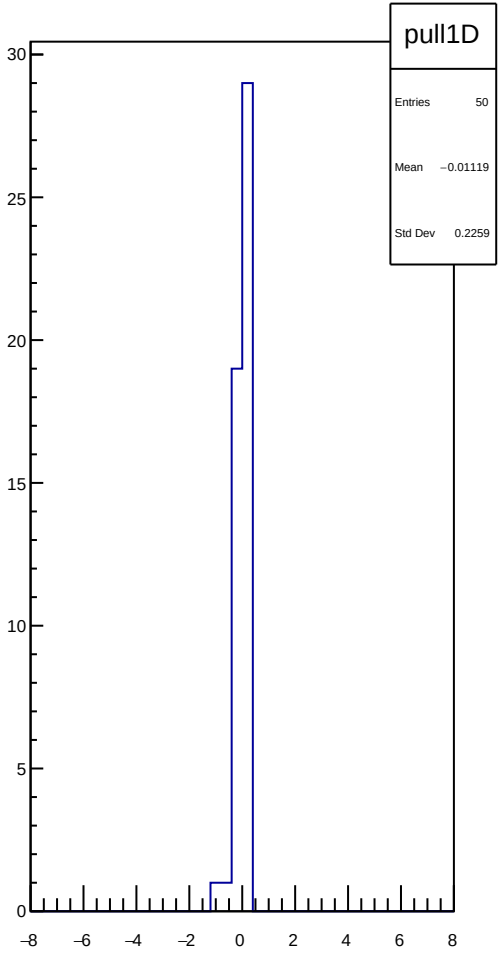

pull1D
Entries 50
Mean 0.01483
Std Dev 0.3238
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

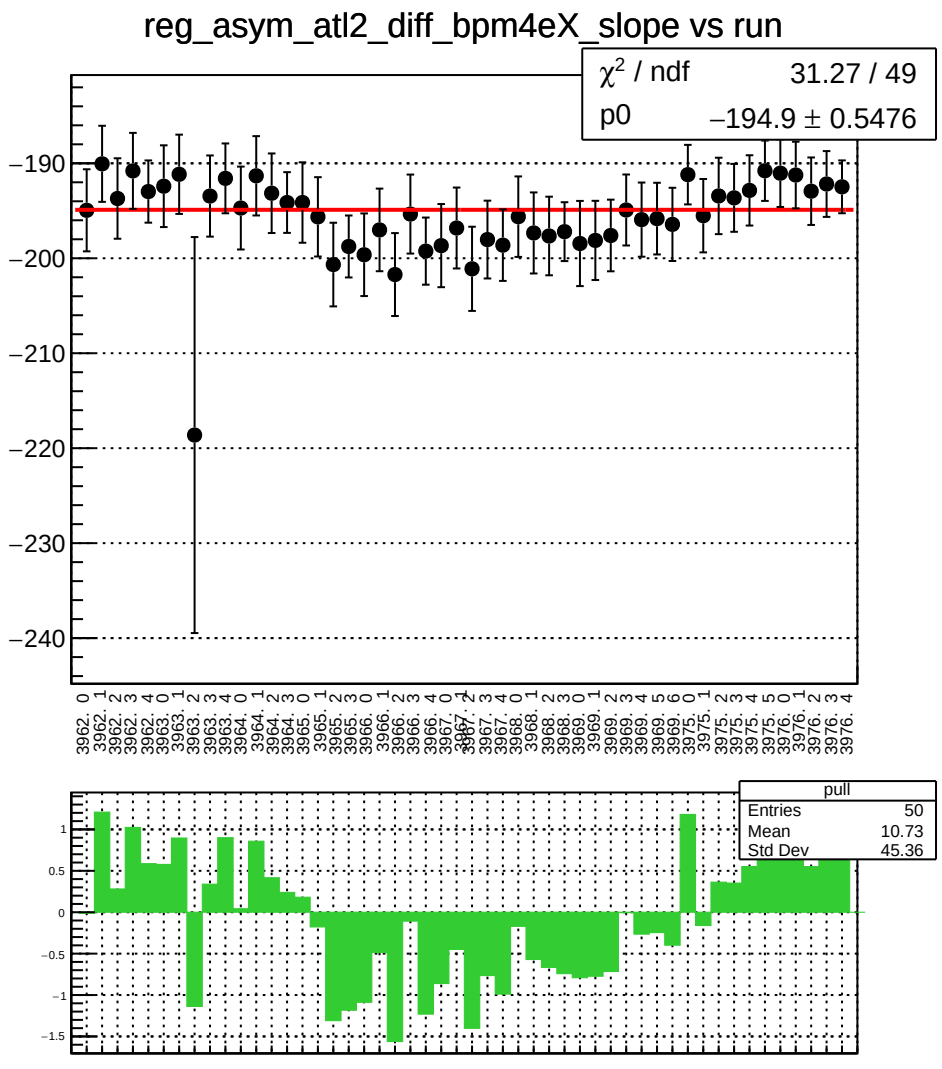

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 20.16 / 49
p0 −423.2 ± 0.6476
pull
Entries 50
Mean −2.071
Std Dev 35.9
pull1D
Entries 50
Mean 0.0259
Std Dev 0.6344

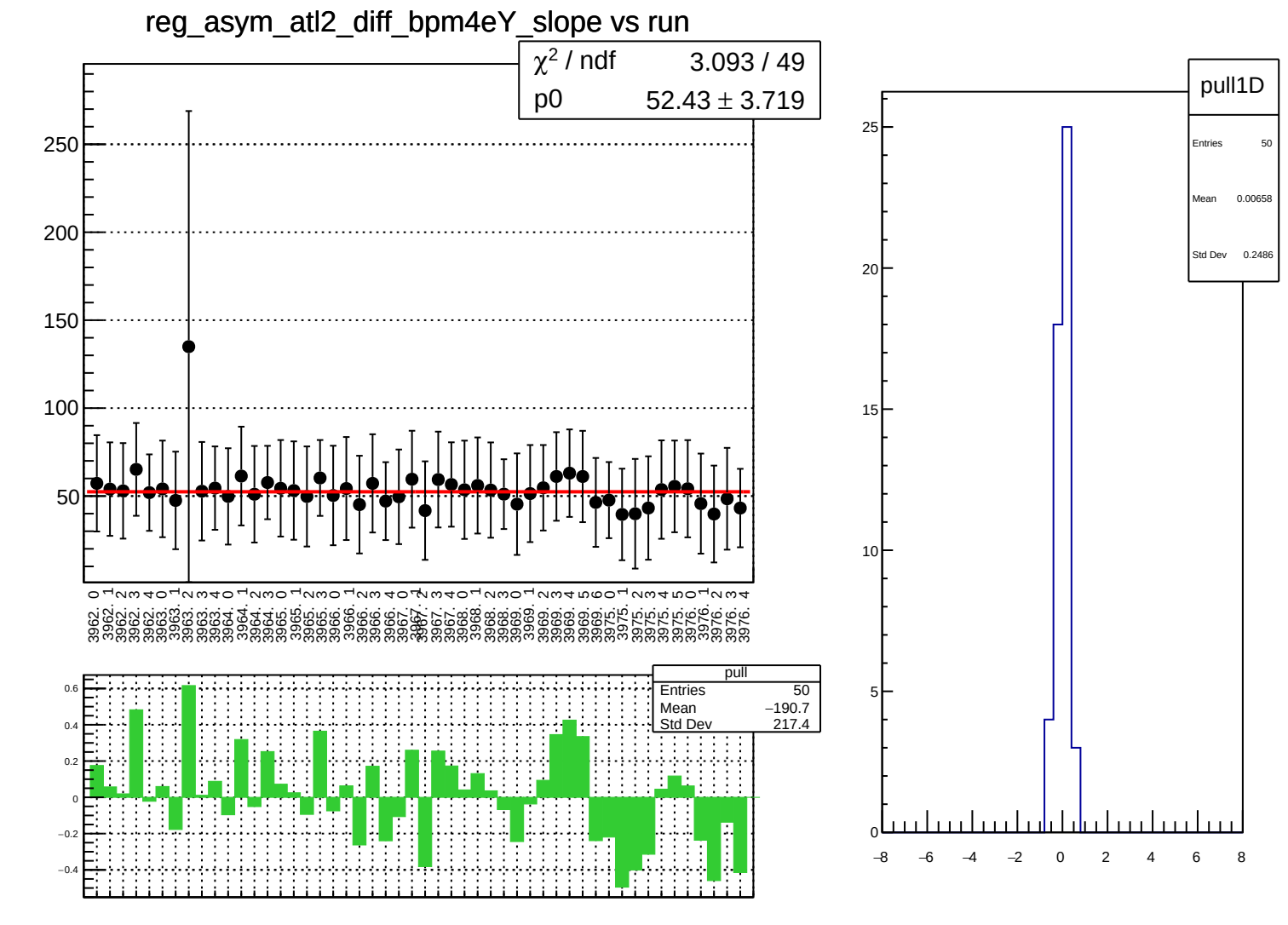

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 13.29 / 49
p0 −35.32 ± 3.187
pull
Entries 50
Mean 28.98
Std Dev 5.622

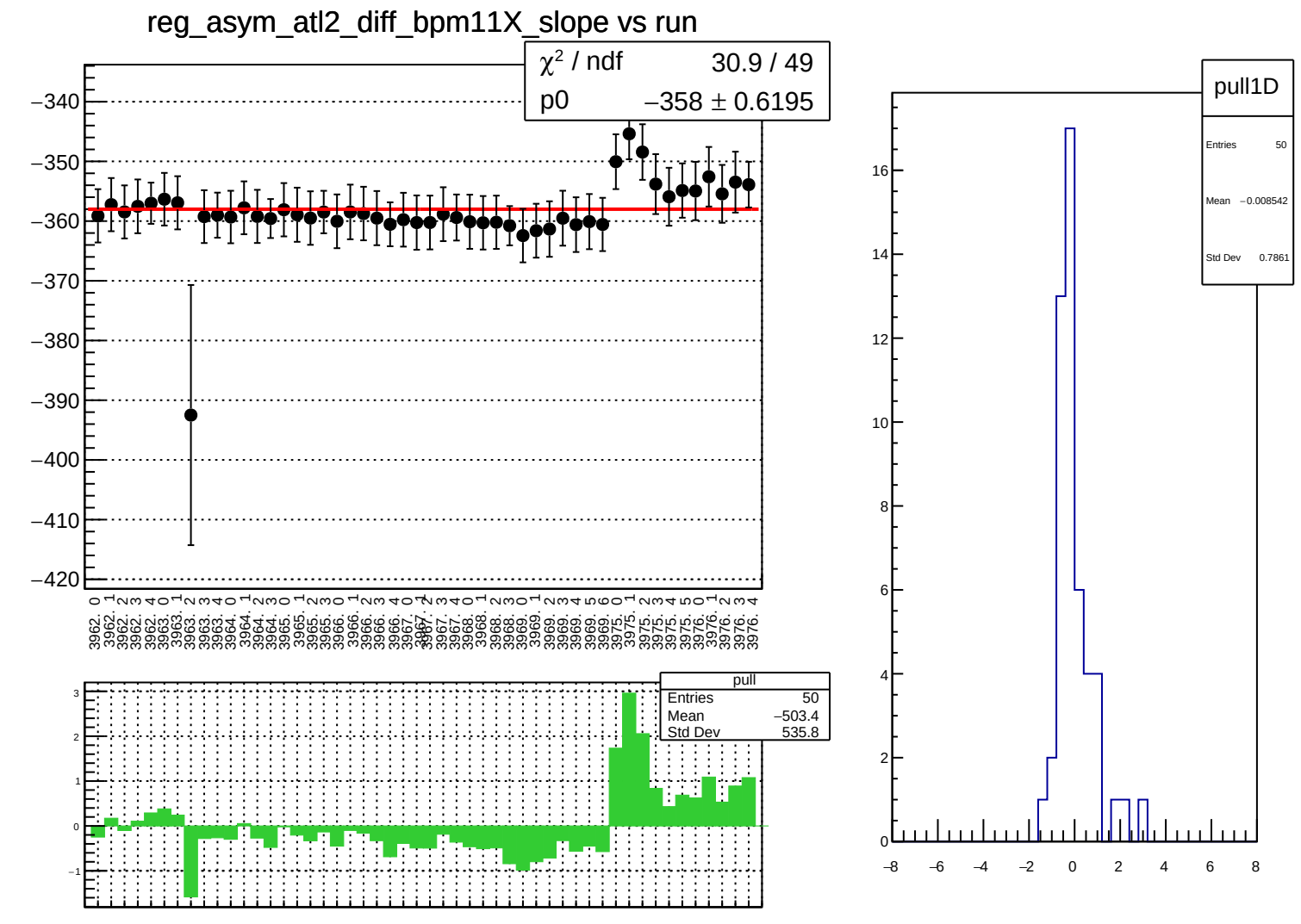

pull1D
Entries 50
Mean 0.02615
Std Dev 0.5148

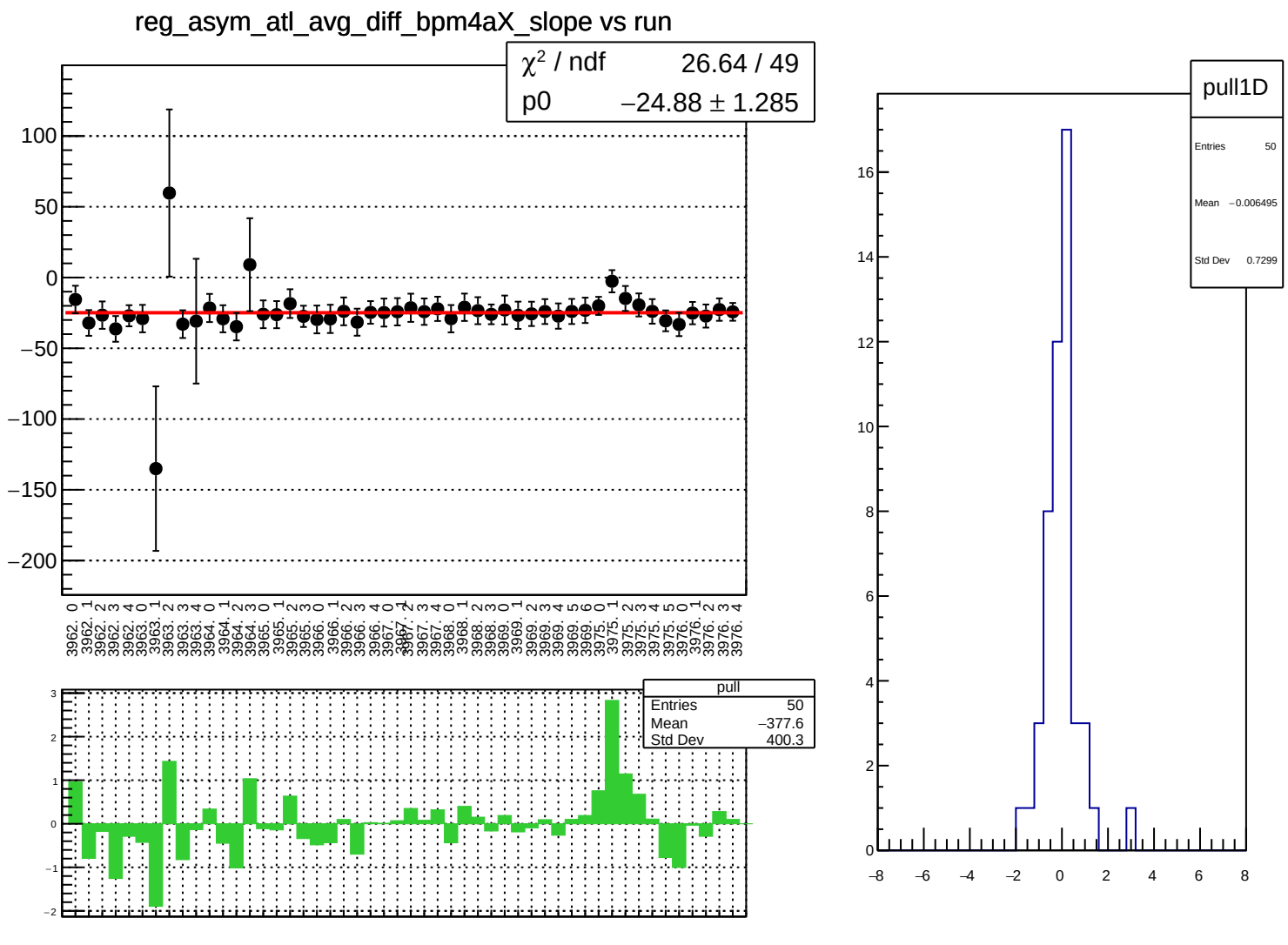

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 2.558 / 49
p0 27.04 ± 2.223
pull
Entries 50
Mean −21.94
Std Dev 50.39

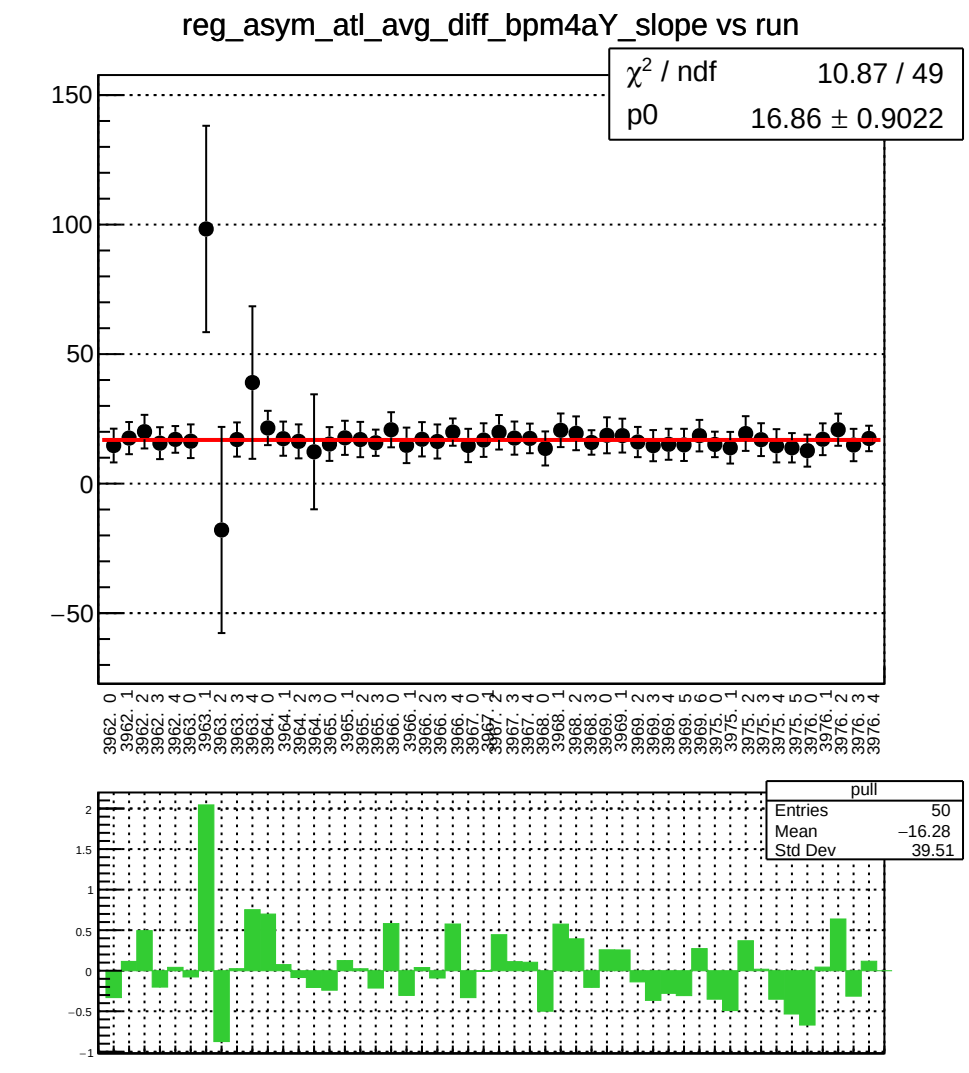

pull1D
Entries 50
Mean −0.01119
Std Dev 0.2259

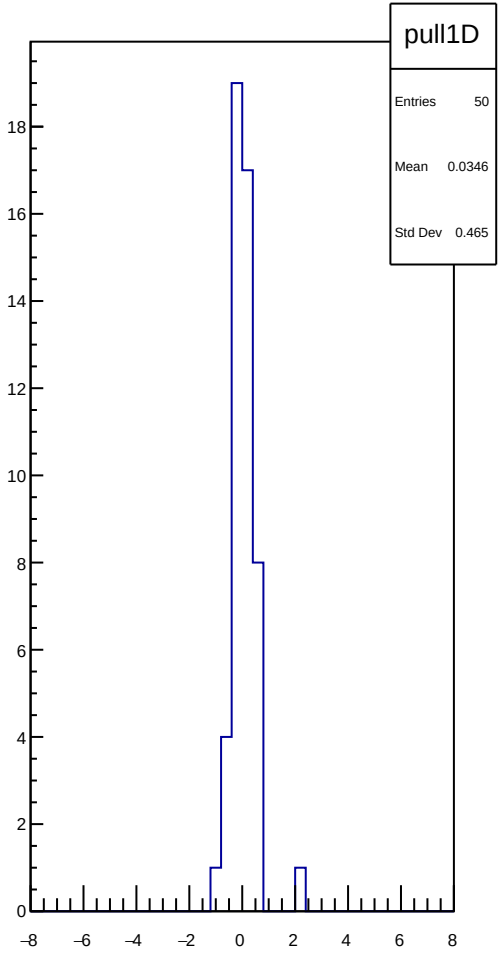

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 31.27 / 49
p0 −194.9 ± 0.5476
−190
−200
−210
−220
−230
−240
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 10.73
Std Dev 45.36
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.05281
Std Dev 0.7891
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

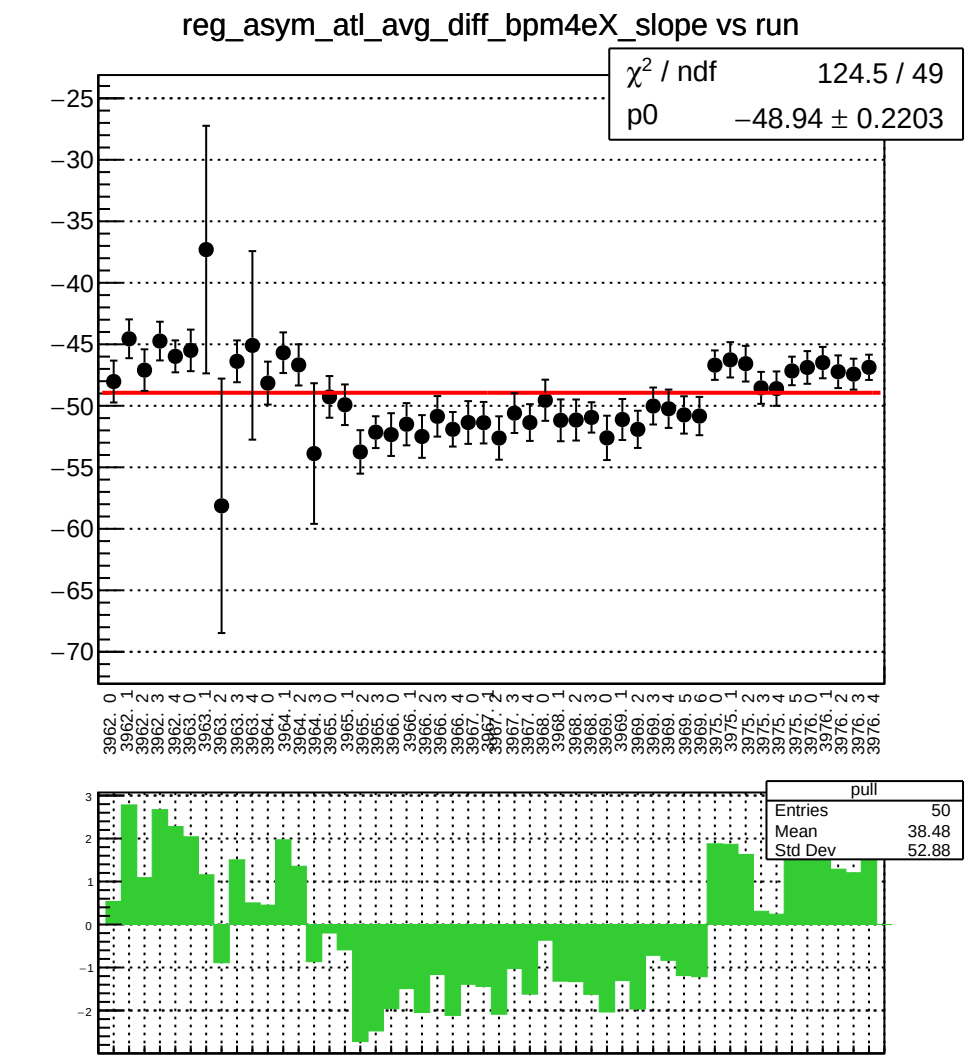

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 3.093 / 49
p0 52.43 ± 3.719
250
200
150
100
50
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −190.7
Std Dev 217.4
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 50
Mean 0.00658
Std Dev 0.2486
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

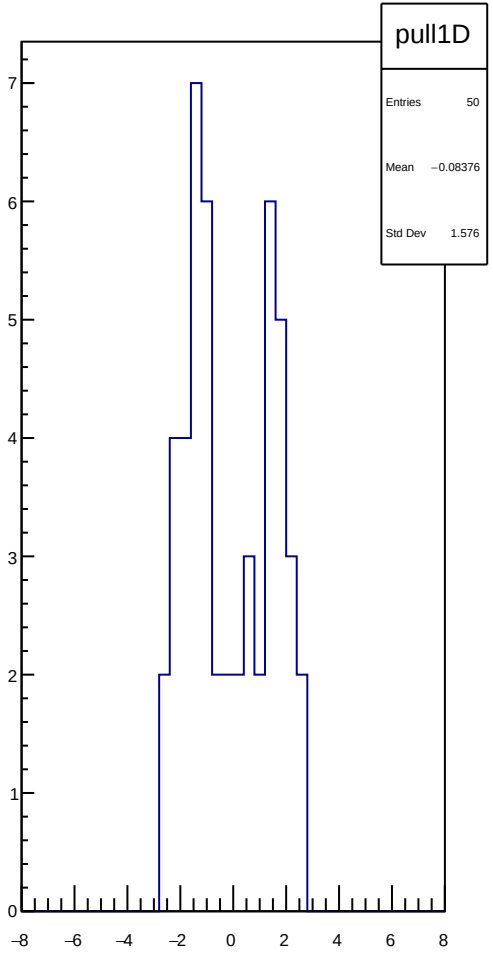

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 30.9 / 49
p0 −358 ± 0.6195
pull
Entries 50
Mean −503.4
Std Dev 535.8
pull1D
Entries 50
Mean −0.008542
Std Dev 0.7861

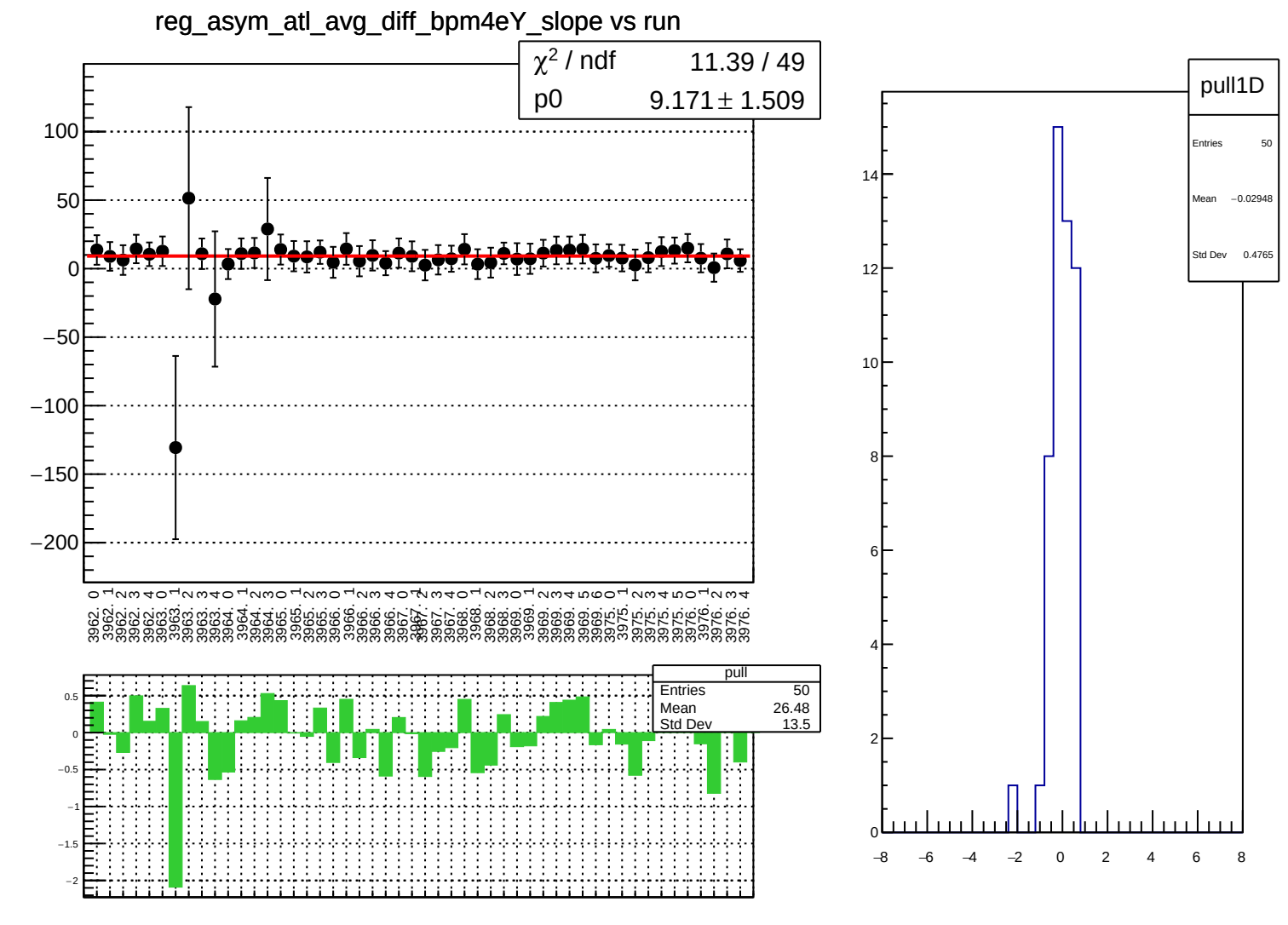

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 26.64 / 49
p0 −24.88 ± 1.285
pull
Entries 50
Mean −377.6
Std Dev 400.3
pull1D
Entries 50
Mean −0.006495
Std Dev 0.7299

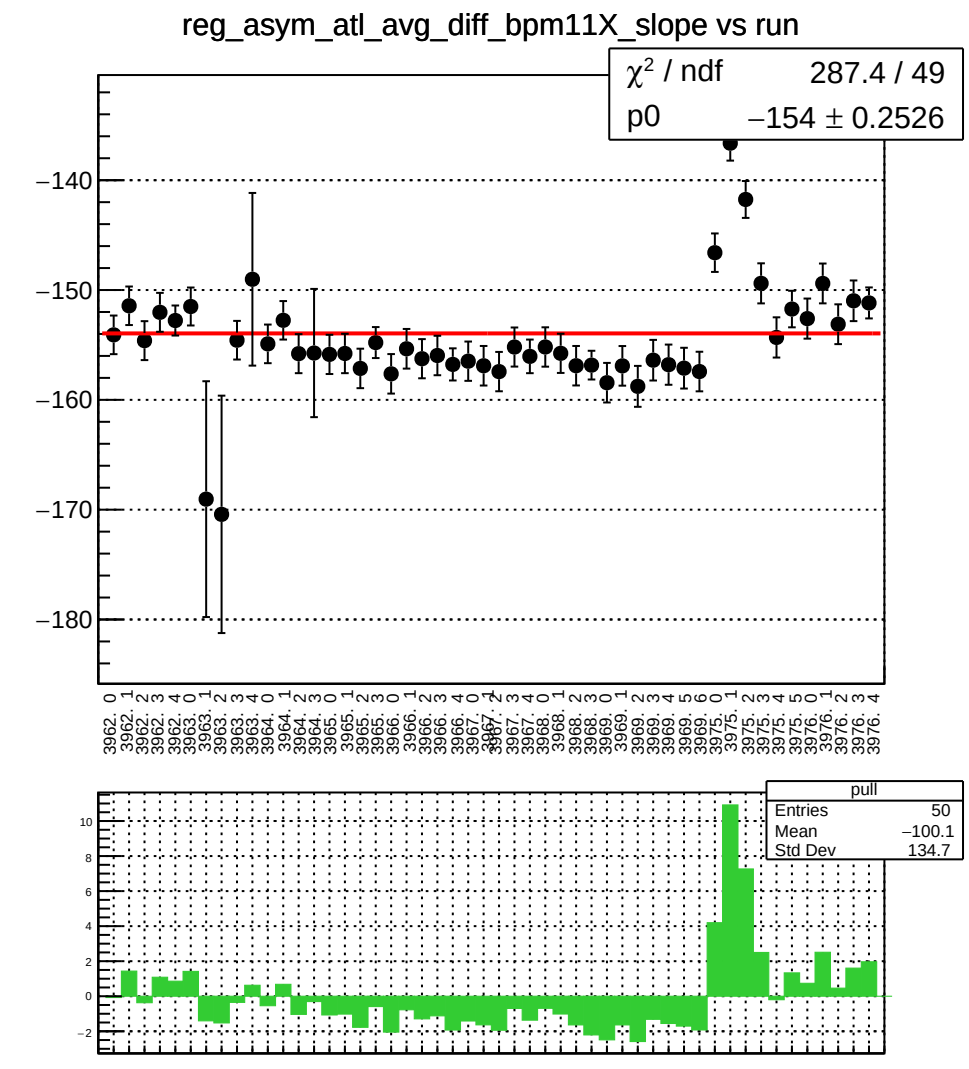

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.87 / 49
p0 16.86 ± 0.9022
150
100
50
0
−50
pull
Entries 50
Mean −16.28
Std Dev 39.51
2
1.5
1
0.5
0
−0.5
−1

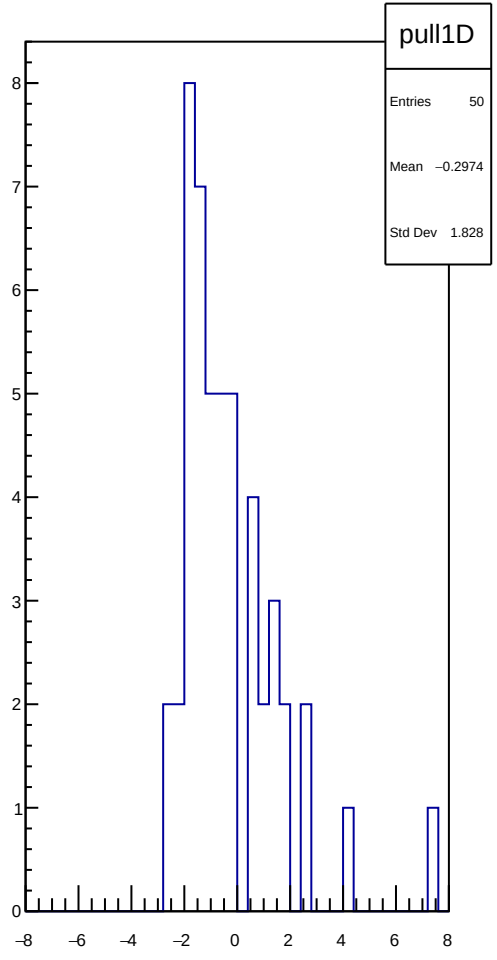

pull1D
Entries 50
Mean 0.0346
Std Dev 0.465
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

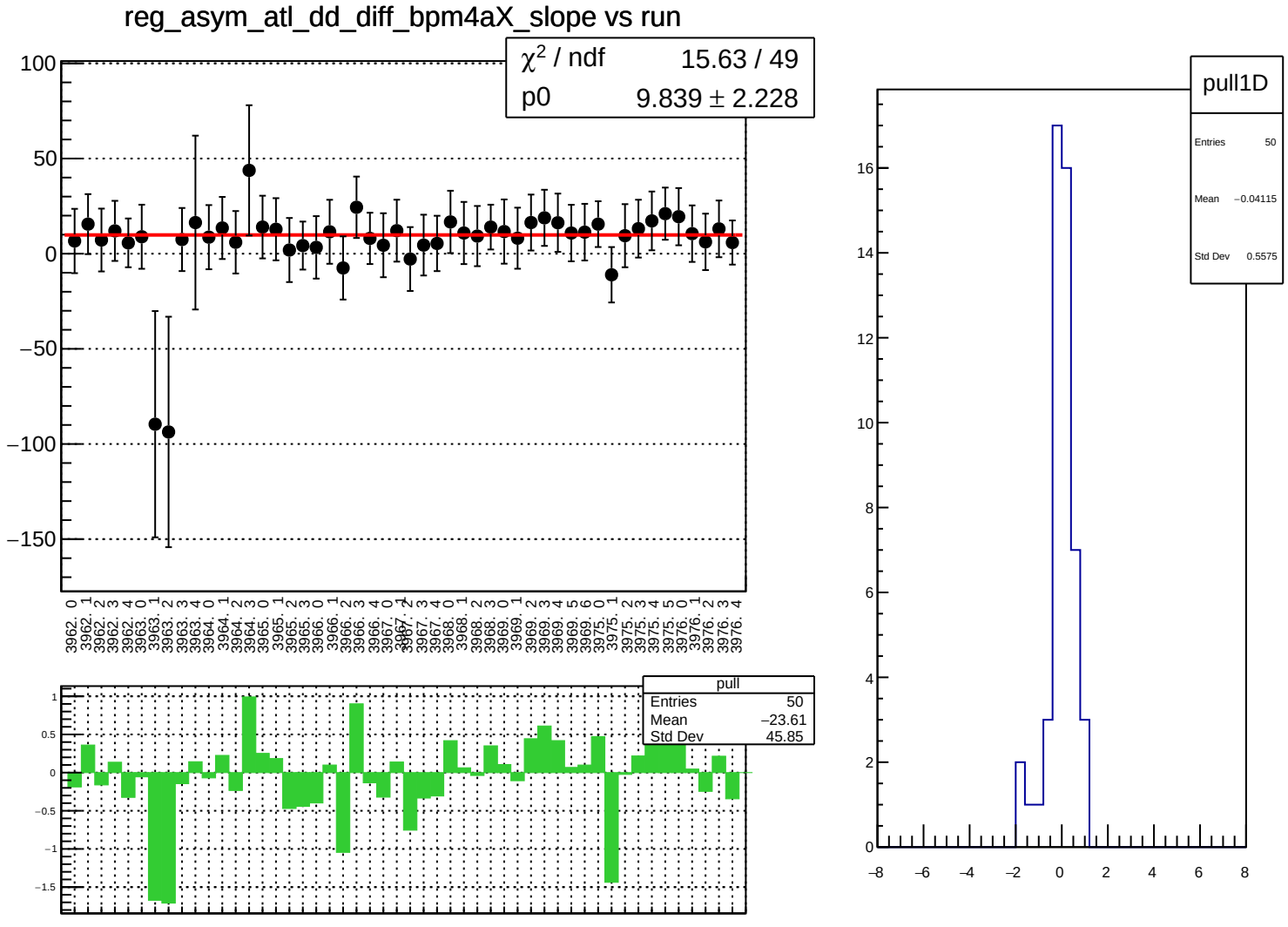

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 124.5 / 49
p0 −48.94 ± 0.2203
pull
Entries 50
Mean 38.48
Std Dev 52.88

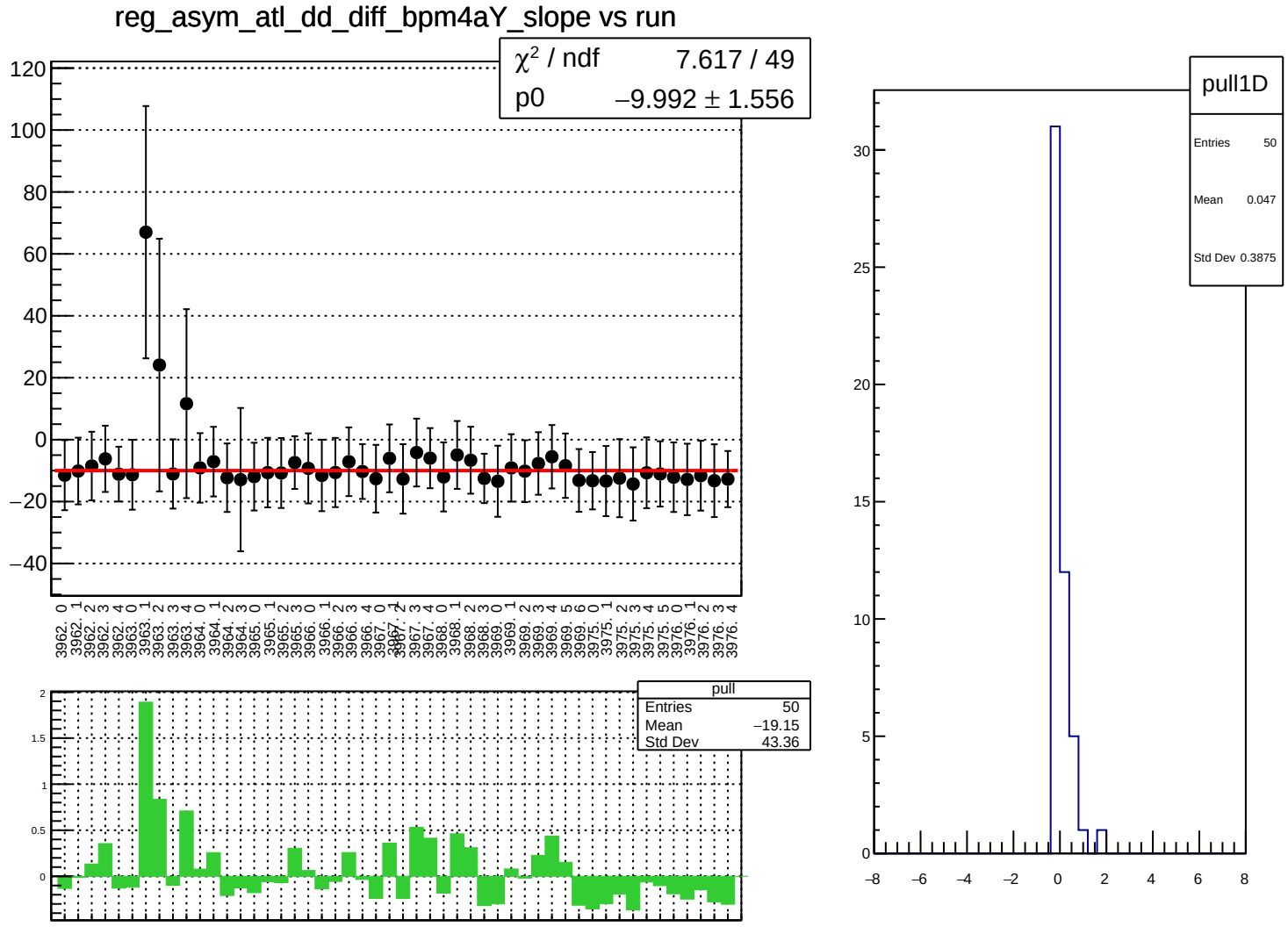

pull1D
Entries 50
Mean −0.08376
Std Dev 1.576

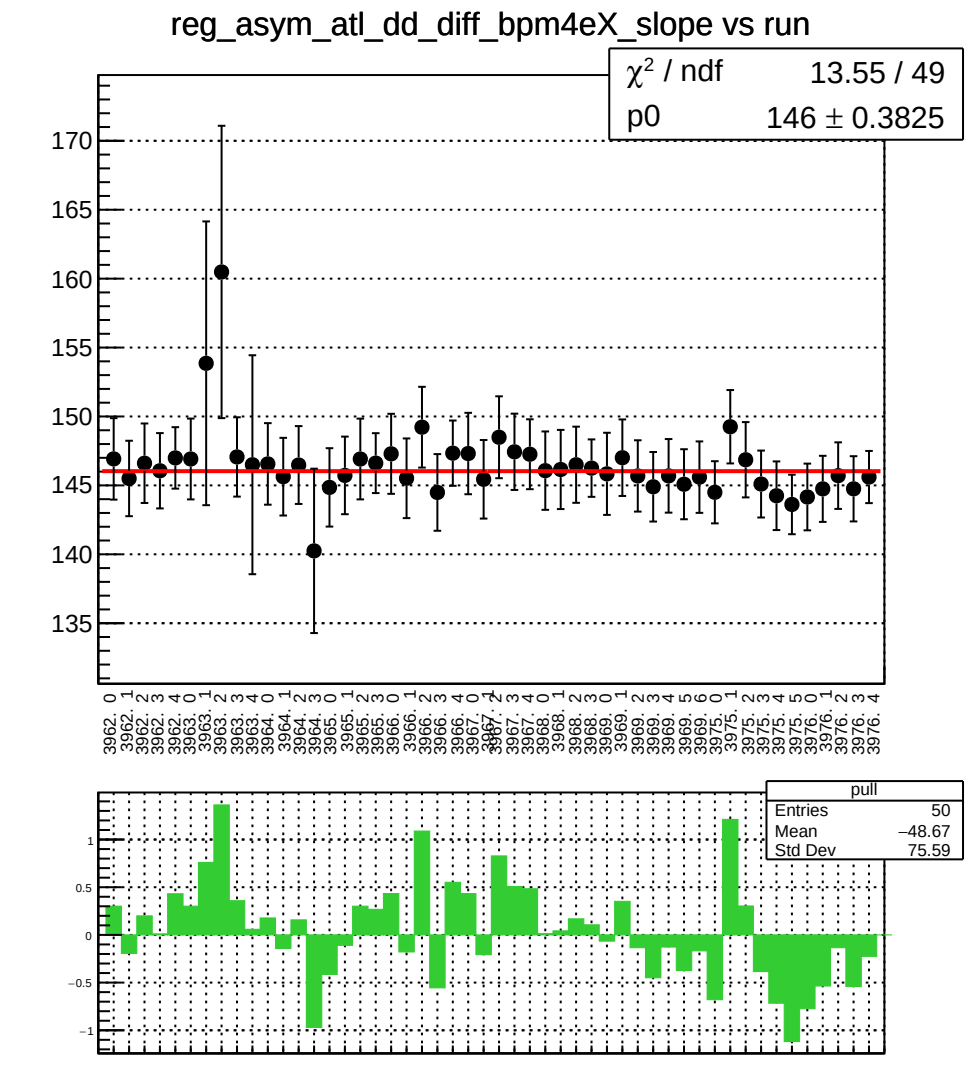

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.39 / 49
p0 9.171 ± 1.509
pull
Entries 50
Mean 26.48
Std Dev 13.5
pull1D
Entries 50
Mean −0.02948
Std Dev 0.4765

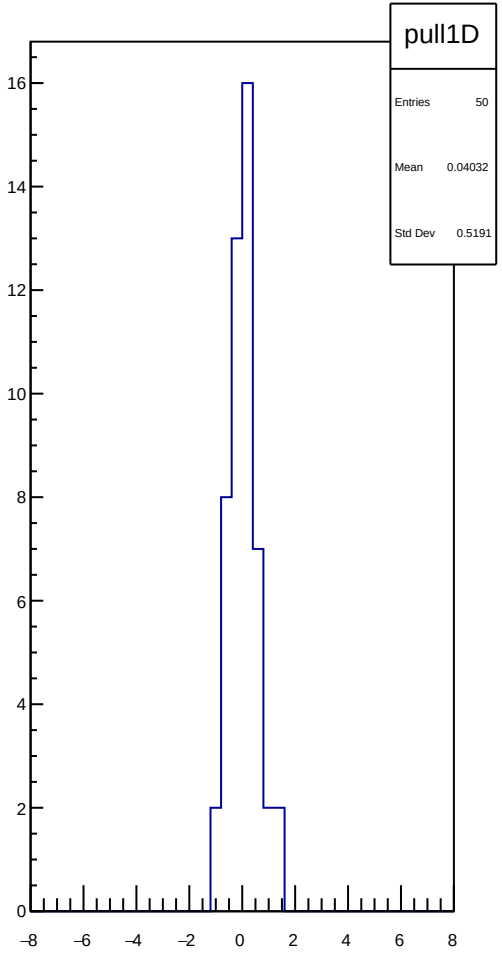

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 287.4 / 49
p0 −154 ± 0.2526
pull
Entries 50
Mean −100.1
Std Dev 134.7

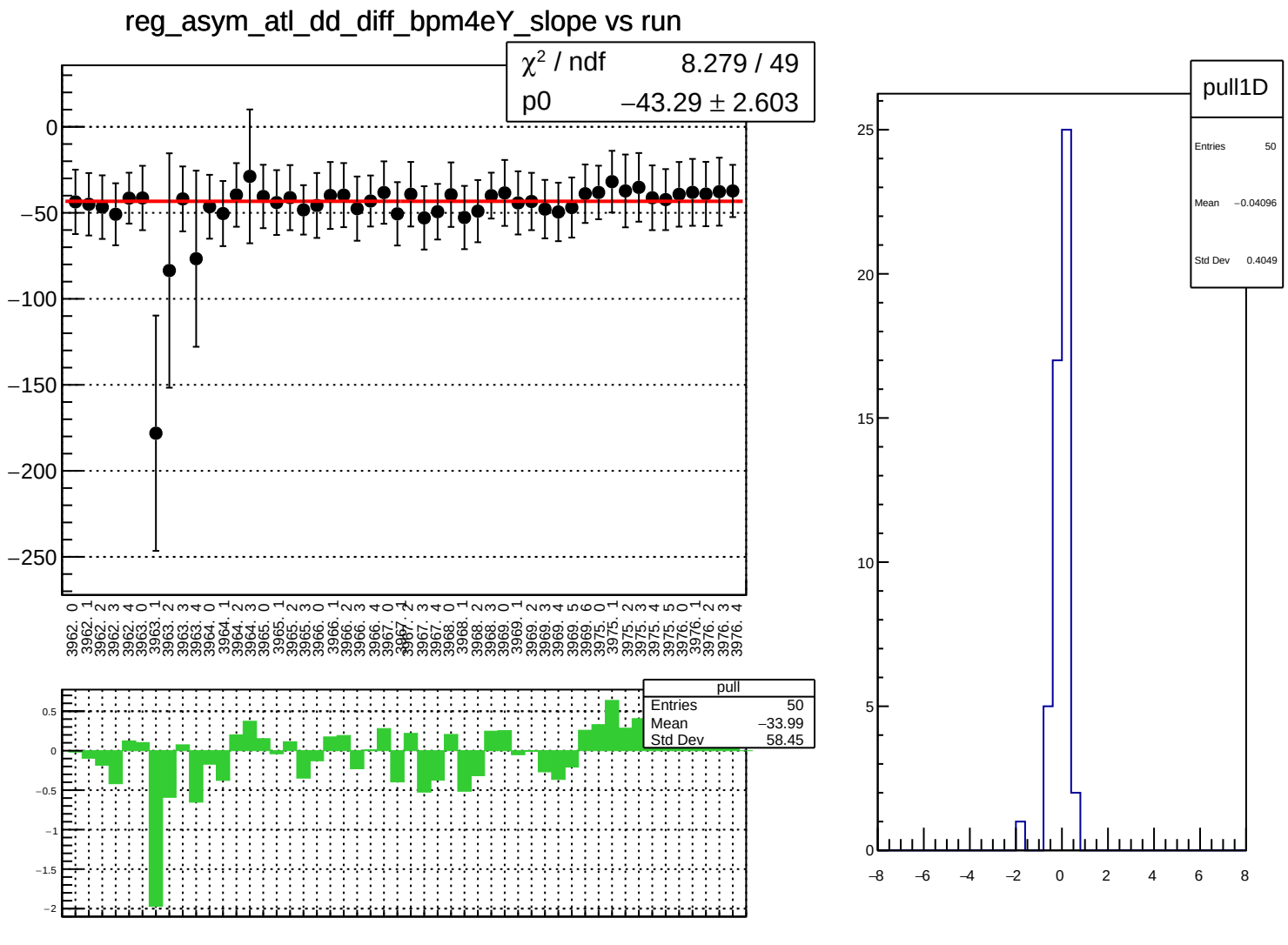

pull1D
Entries 50
Mean −0.2974
Std Dev 1.828

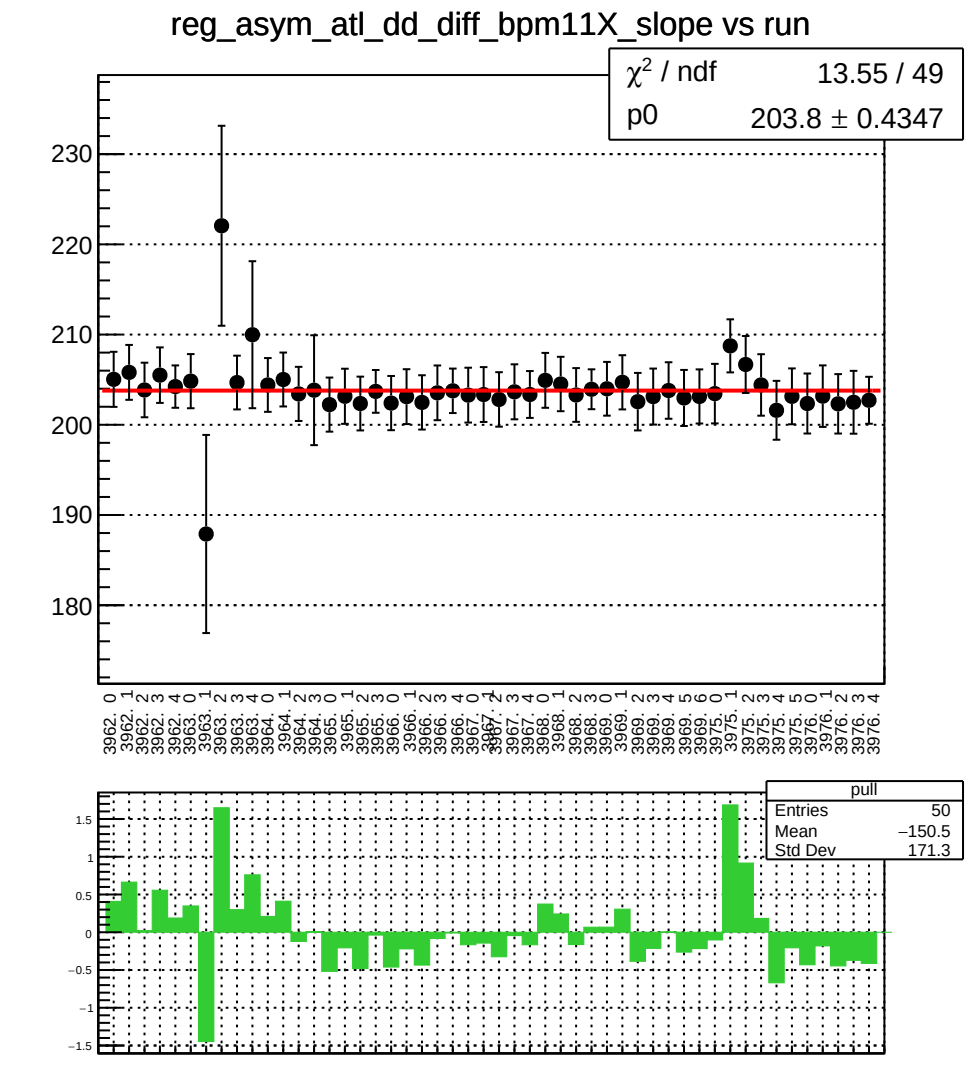

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.63 / 49
p0 9.839 ± 2.228
pull
Entries 50
Mean −23.61
Std Dev 45.85
pull1D
Entries 50
Mean −0.04115
Std Dev 0.5575

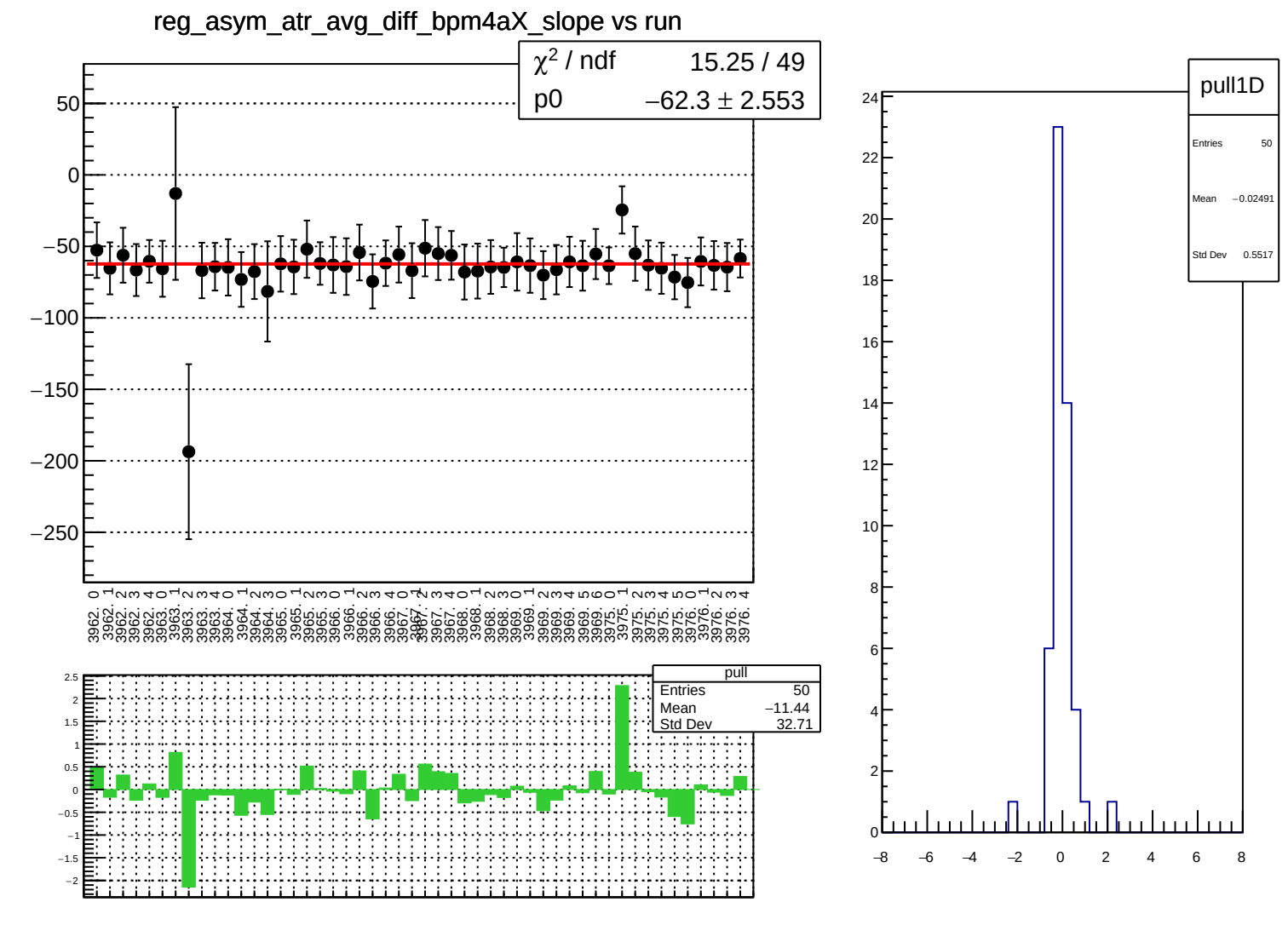

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.617 / 49
p0 −9.992 ± 1.556
pull
Entries 50
Mean −19.15
Std Dev 43.36
pull1D
Entries 50
Mean 0.047
Std Dev 0.3875

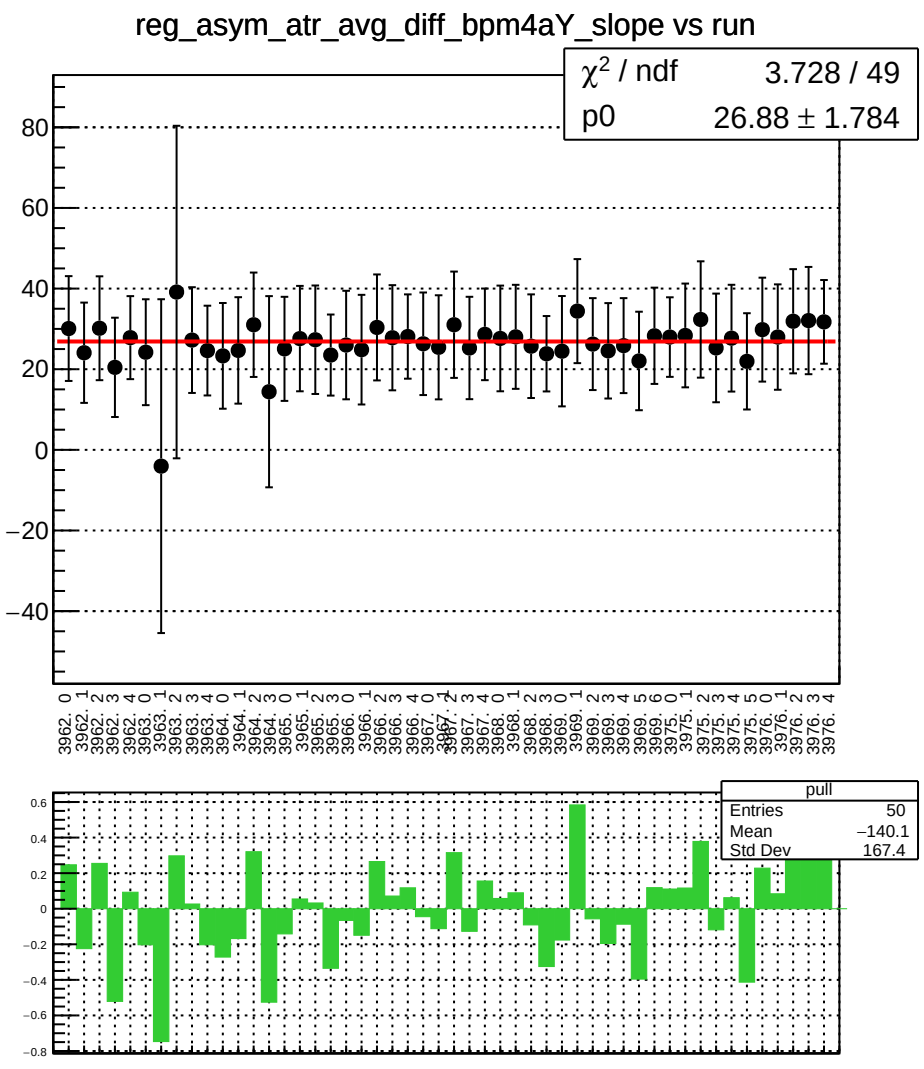

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.55 / 49
p0 146 ± 0.3825
pull
Entries 50
Mean −48.67
Std Dev 75.59

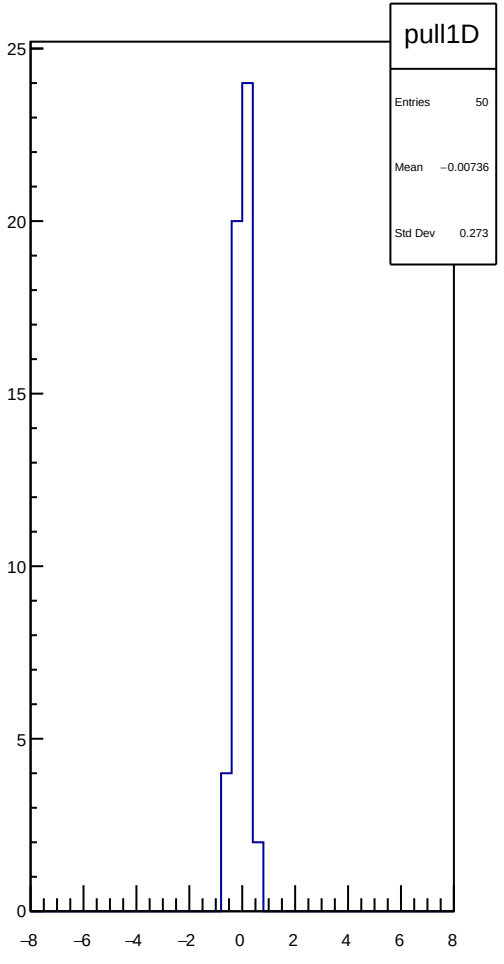

pull1D
Entries 50
Mean 0.04032
Std Dev 0.5191

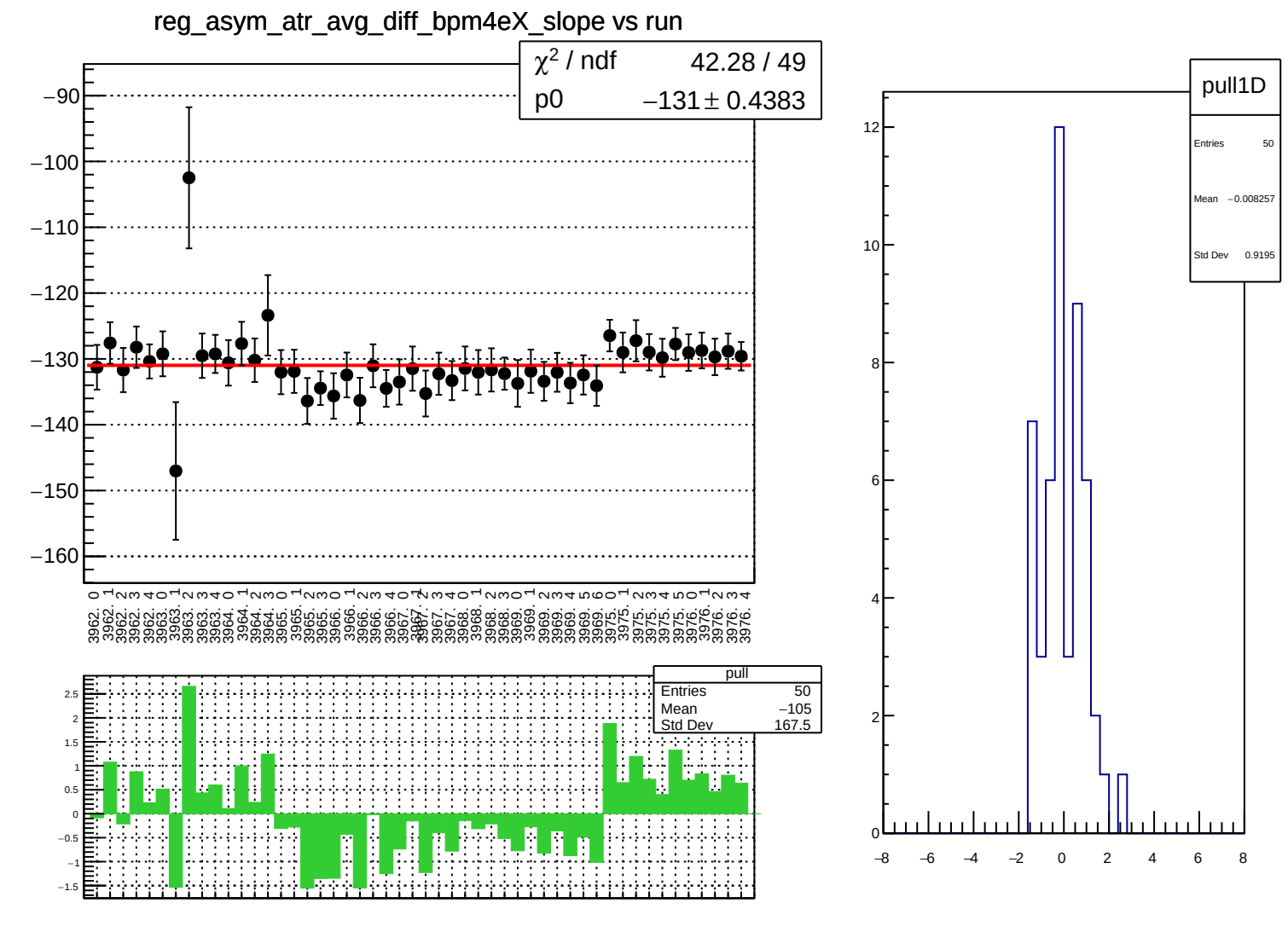

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.279 / 49
p0 −43.29 ± 2.603
pull
Entries 50
Mean −33.99
Std Dev 58.45
pull1D
Entries 50
Mean −0.04096
Std Dev 0.4049

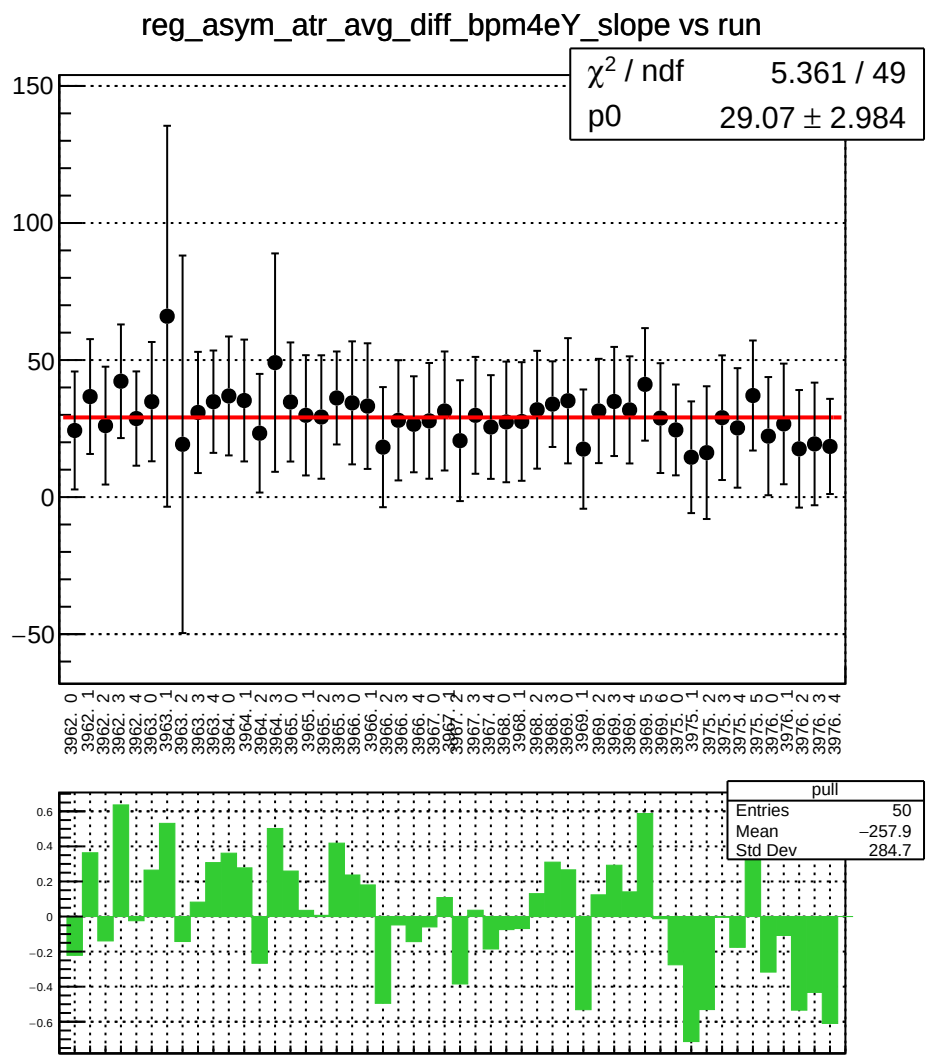

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 13.55 / 49
p0 203.8 ± 0.4347
230
220
210
200
190
180
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −150.5
Std Dev 171.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.008975
Std Dev 0.5204
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

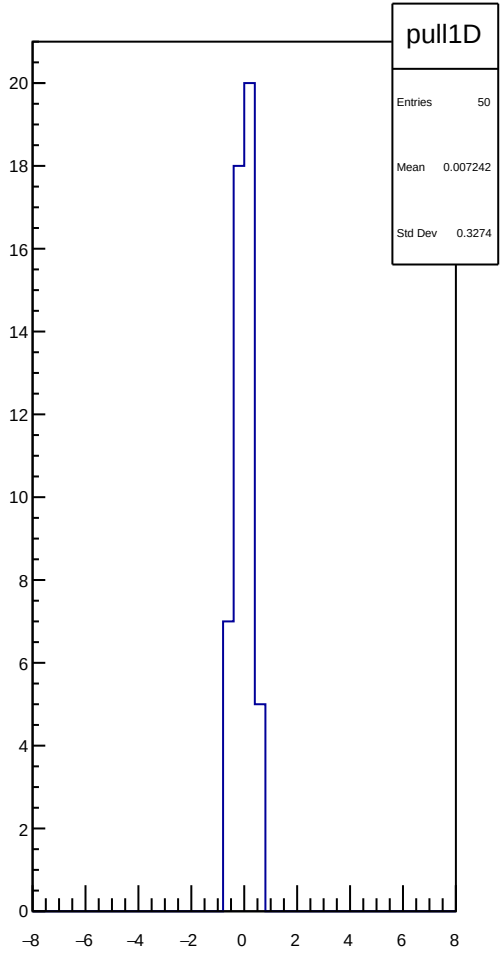

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 15.25 / 49
p0 −62.3 ± 2.553
pull
Entries 50
Mean −11.44
Std Dev 32.71
pull1D
Entries 50
Mean −0.02491
Std Dev 0.5517

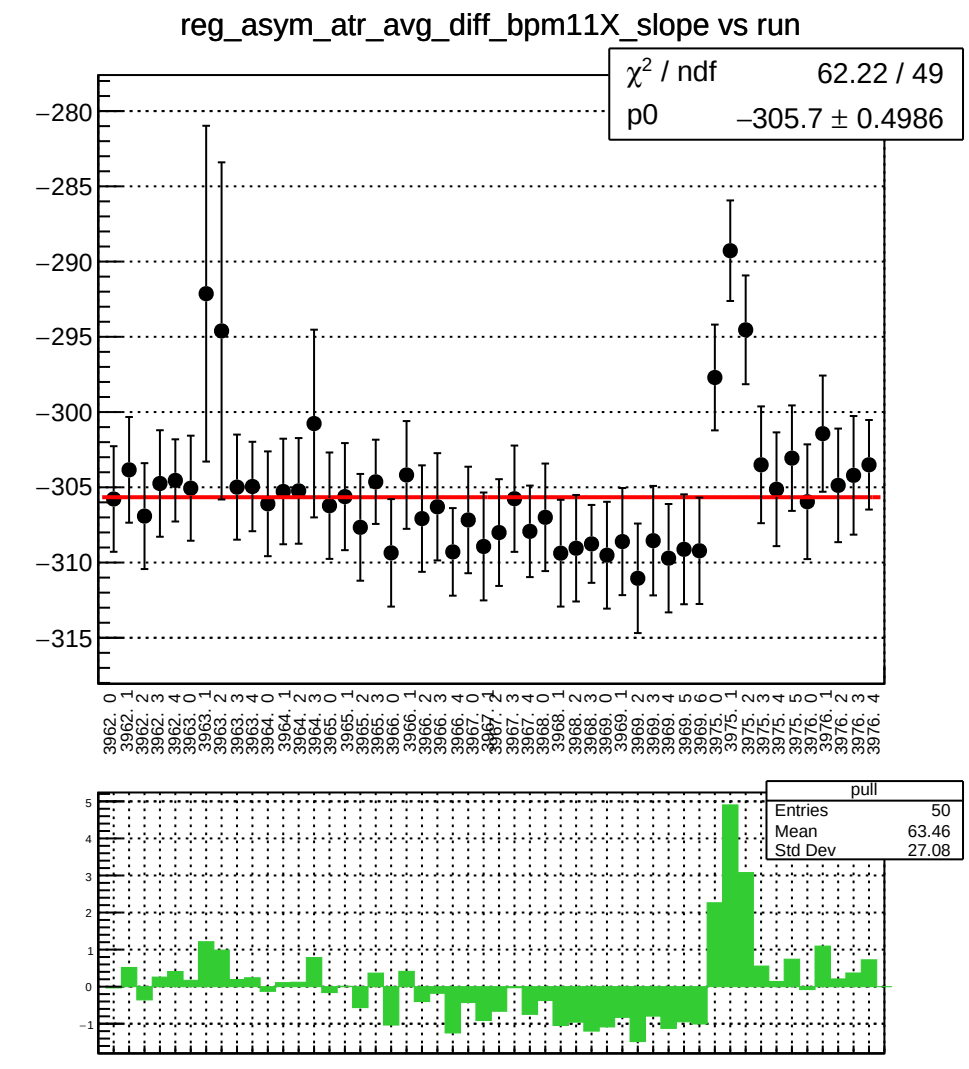

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.728 / 49
p0 26.88 ± 1.784
pull
Entries 50
Mean −140.1
Std Dev 167.4

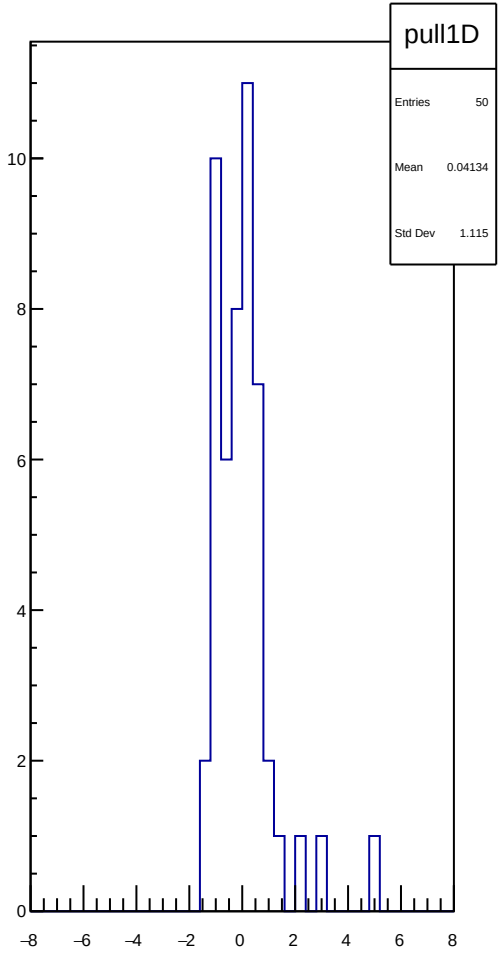

pull1D
Entries 50
Mean −0.00736
Std Dev 0.273

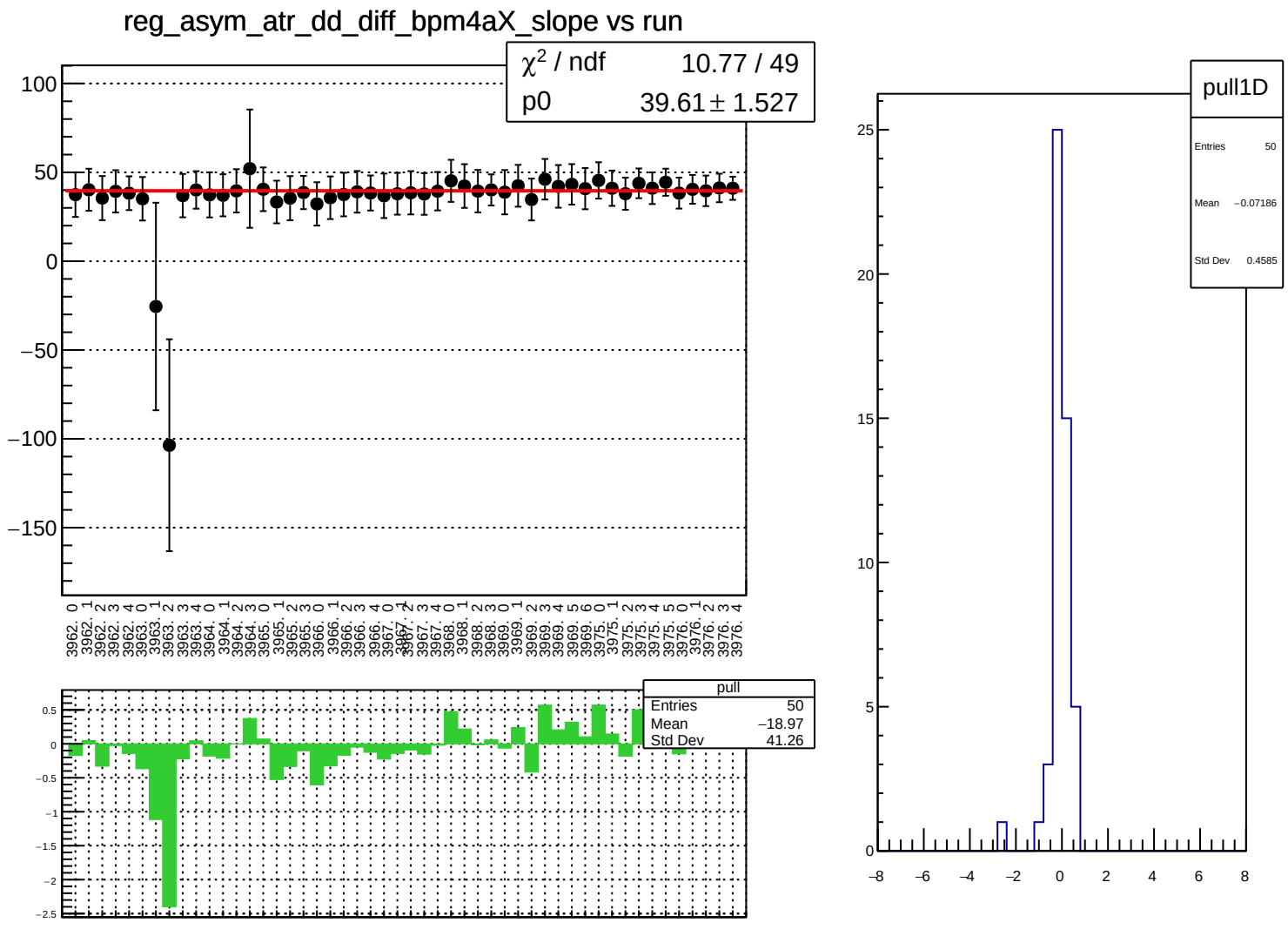

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.28 / 49
p0 −131 ± 0.4383
pull
Entries 50
Mean −105
Std Dev 167.5
pull1D
Entries 50
Mean −0.008257
Std Dev 0.9195

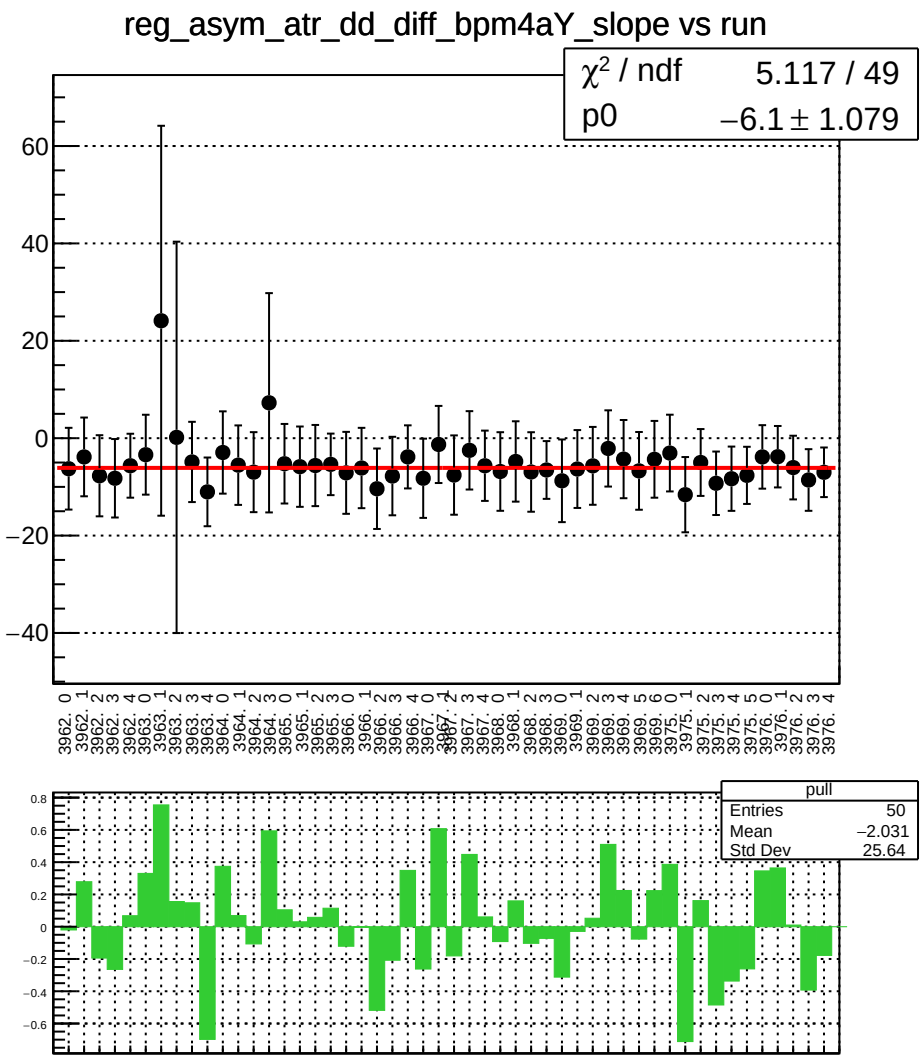

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.361 / 49
p0 29.07 ± 2.984
150
100
50
0
−50
pull
Entries 50
Mean −257.9
Std Dev 284.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

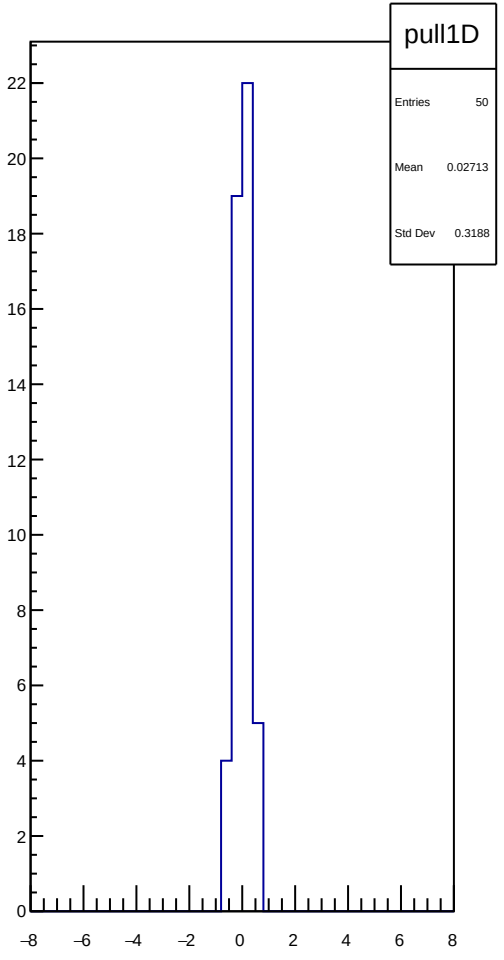

pull1D
Entries 50
Mean 0.007242
Std Dev 0.3274
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

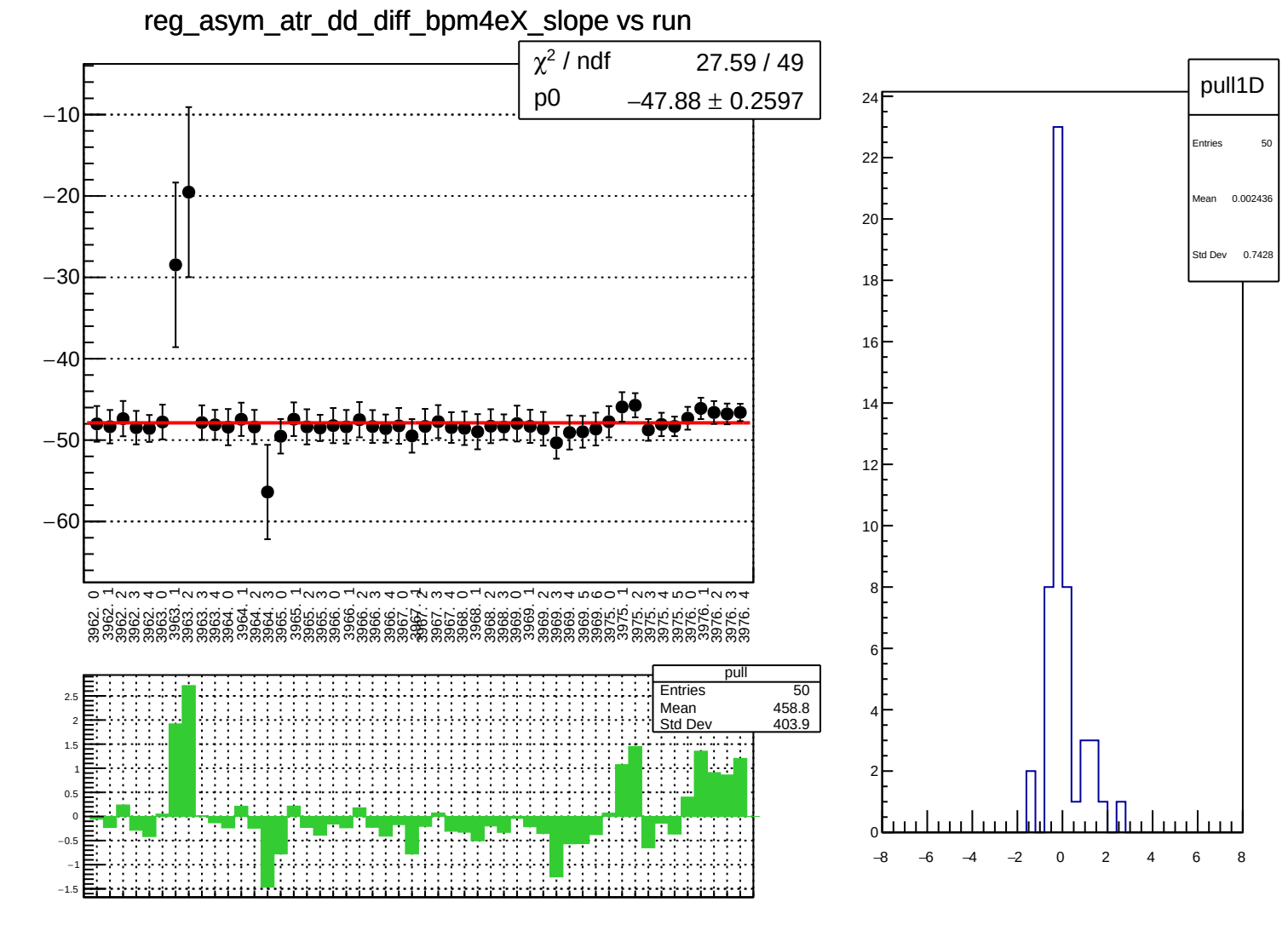

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 62.22 / 49
p0 −305.7 ± 0.4986
pull
Entries 50
Mean 63.46
Std Dev 27.08

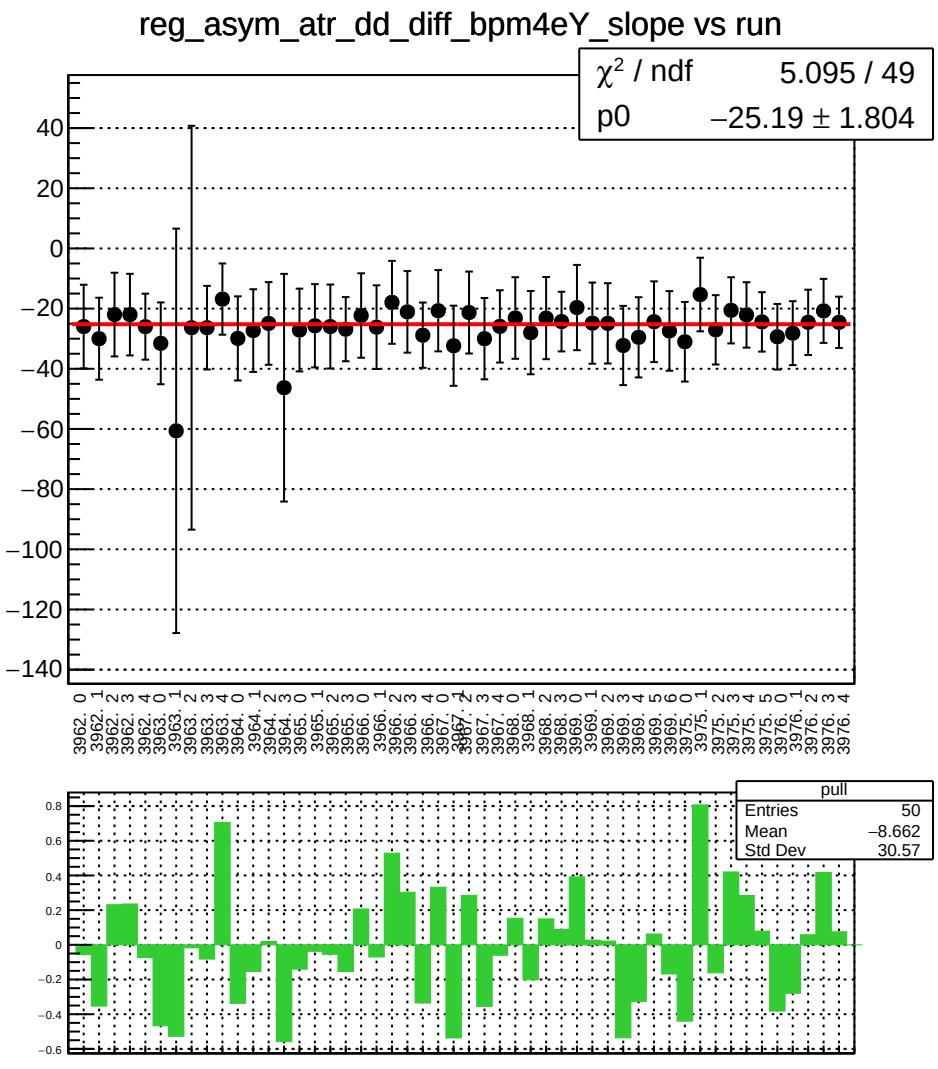

pull1D
Entries 50
Mean 0.04134
Std Dev 1.115

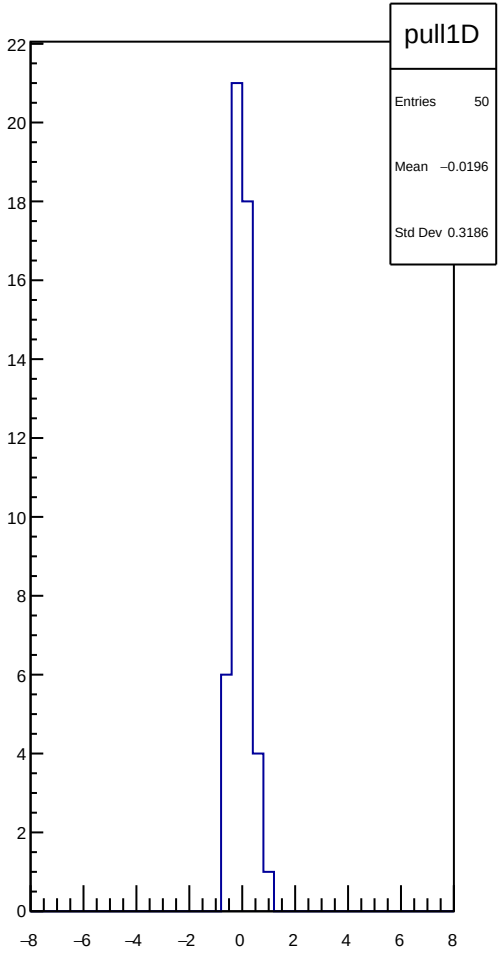

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.77 / 49
p0 39.61 ± 1.527
pull
Entries 50
Mean −18.97
Std Dev 41.26
pull1D
Entries 50
Mean −0.07186
Std Dev 0.4585

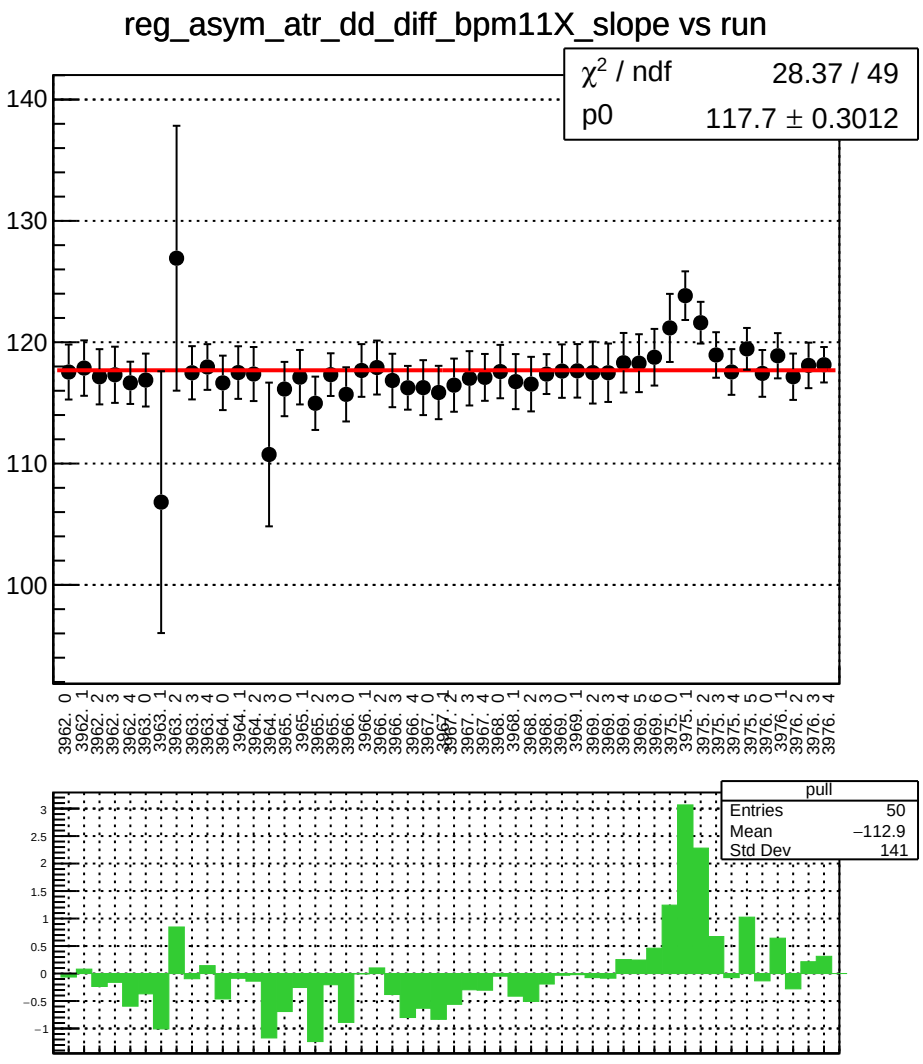

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.117 / 49
p0 −6.1 ± 1.079
pull
Entries 50
Mean −2.031
Std Dev 25.64

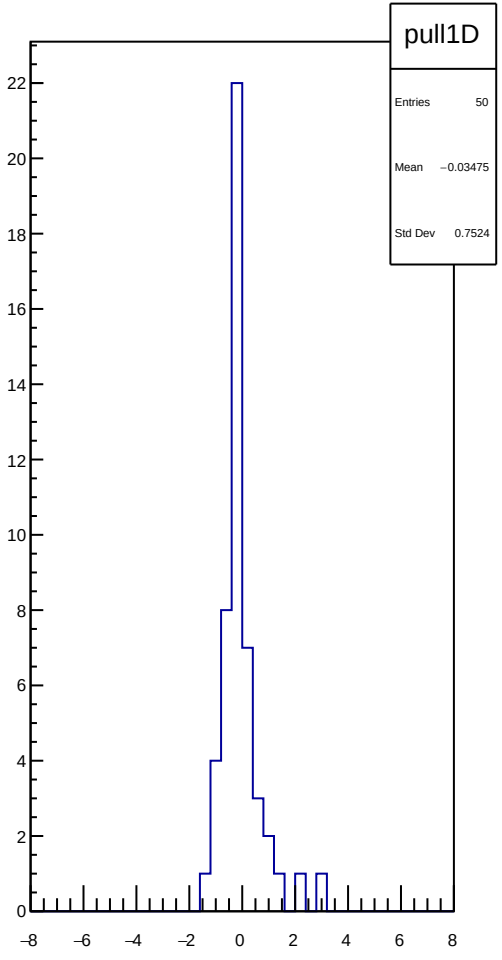

pull1D
Entries 50
Mean 0.02713
Std Dev 0.3188

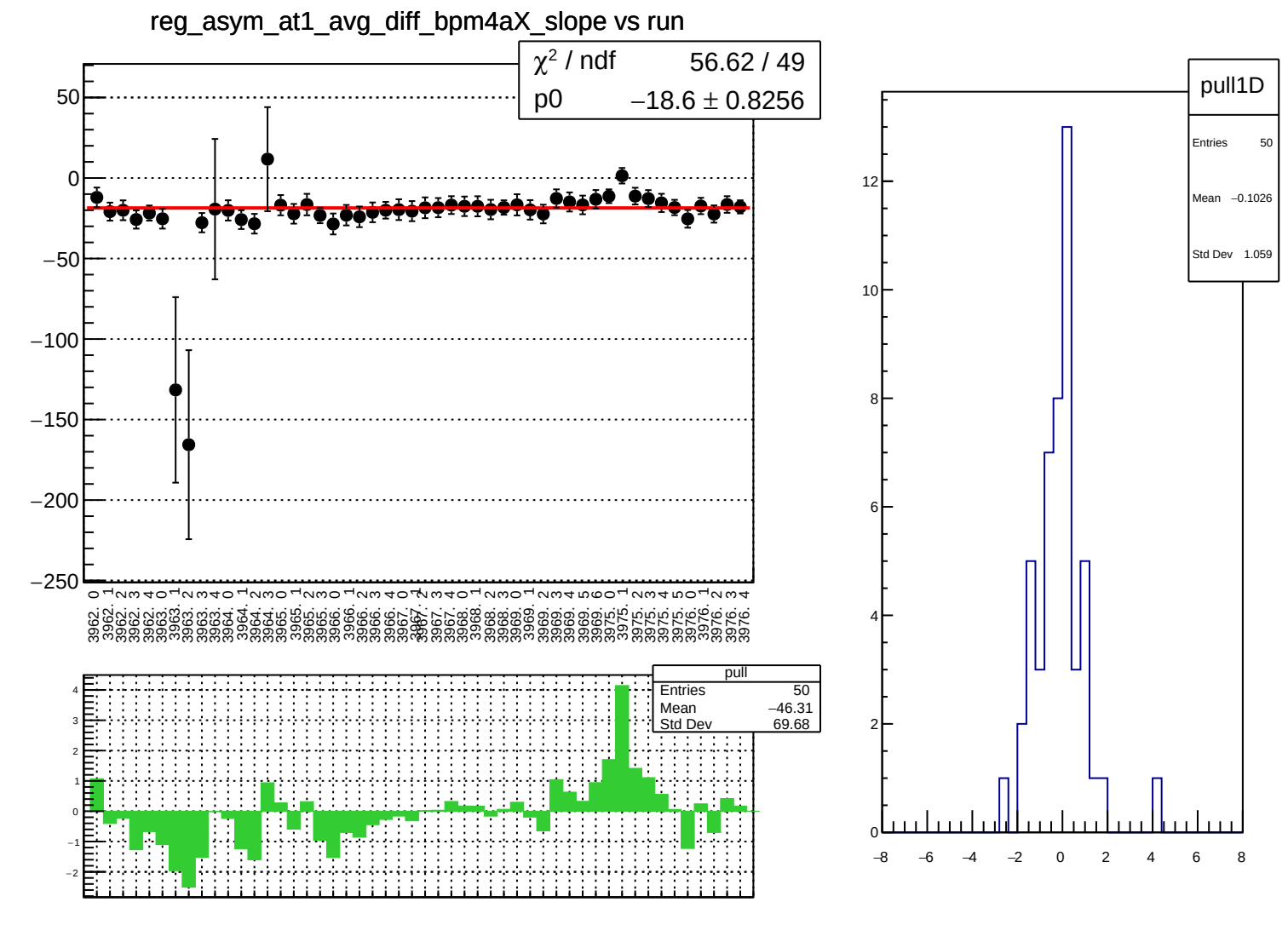

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.59 / 49
p0 −47.88 ± 0.2597
pull
Entries 50
Mean 458.8
Std Dev 403.9
pull1D
Entries 50
Mean 0.002436
Std Dev 0.7428

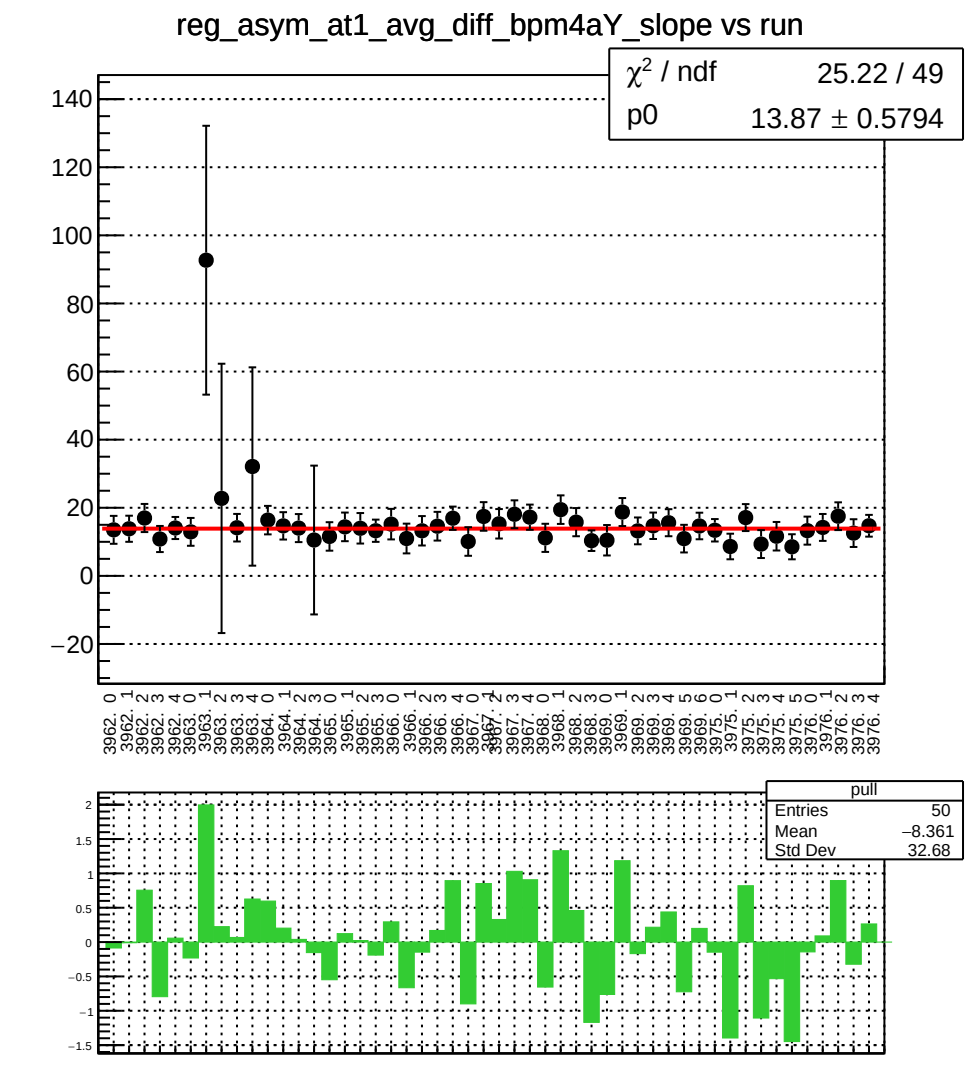

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.095 / 49
p0 −25.19 ± 1.804
pull
Entries 50
Mean −8.662
Std Dev 30.57

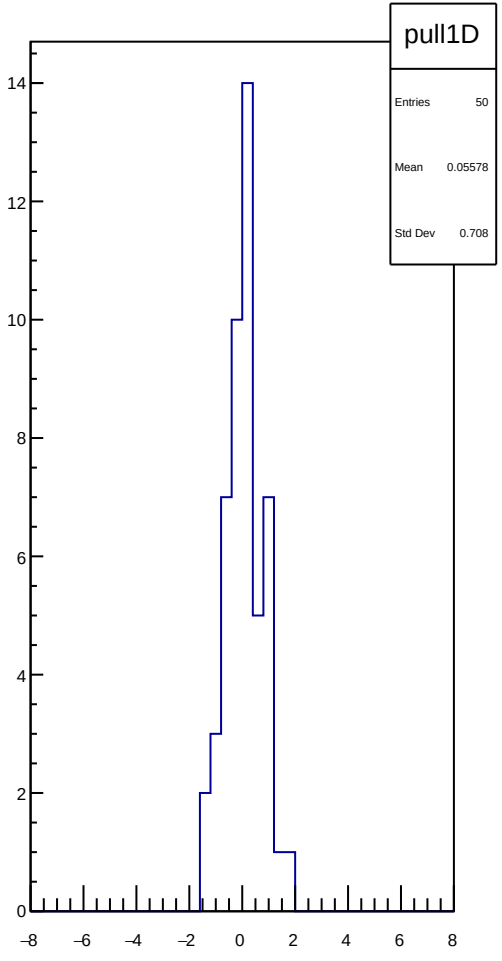

pull1D
Entries 50
Mean −0.0196
Std Dev 0.3186

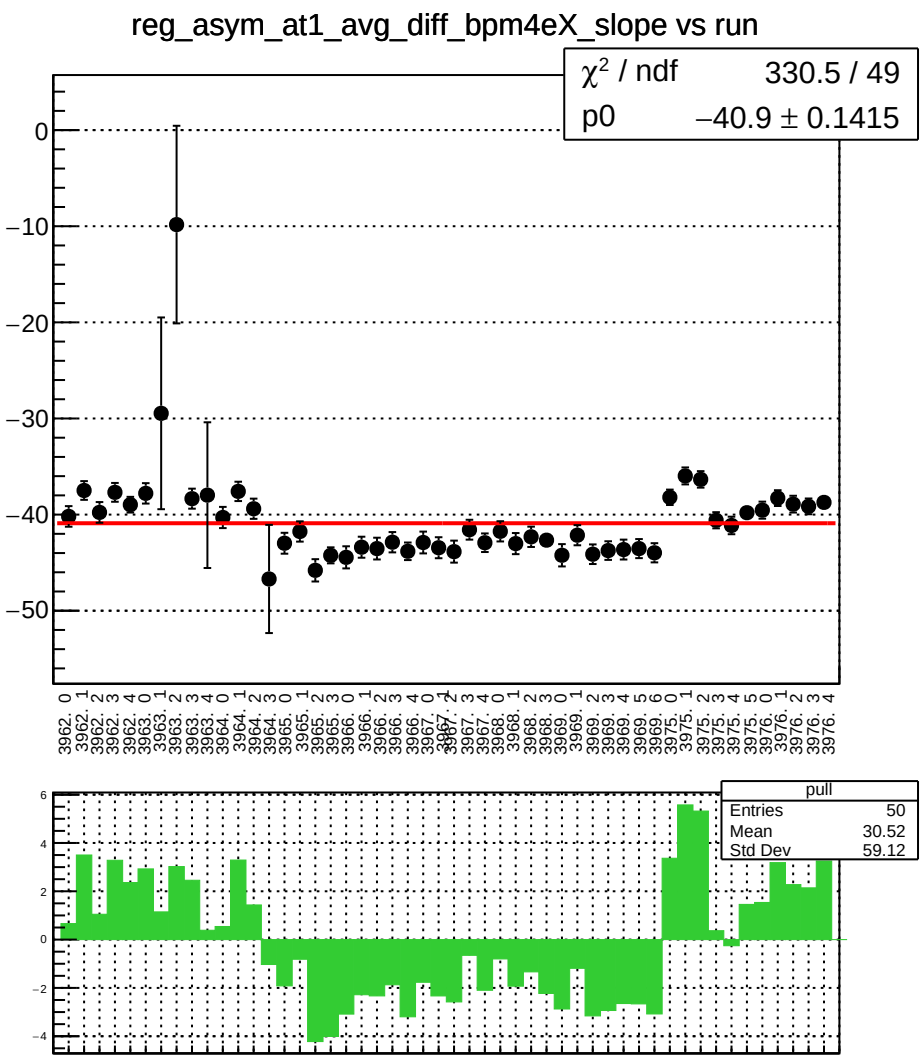

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 28.37 / 49
p0 117.7 ± 0.3012
pull
Entries 50
Mean −112.9
Std Dev 141

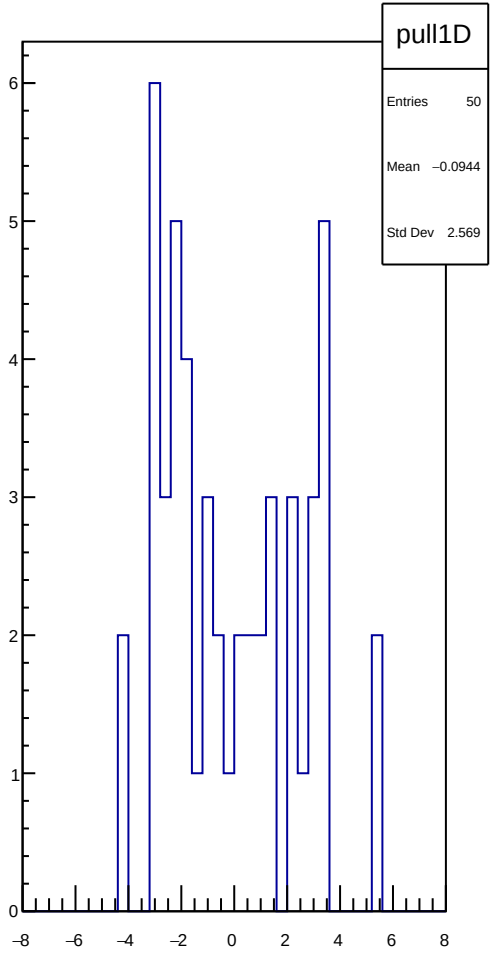

pull1D
Entries 50
Mean −0.03475
Std Dev 0.7524

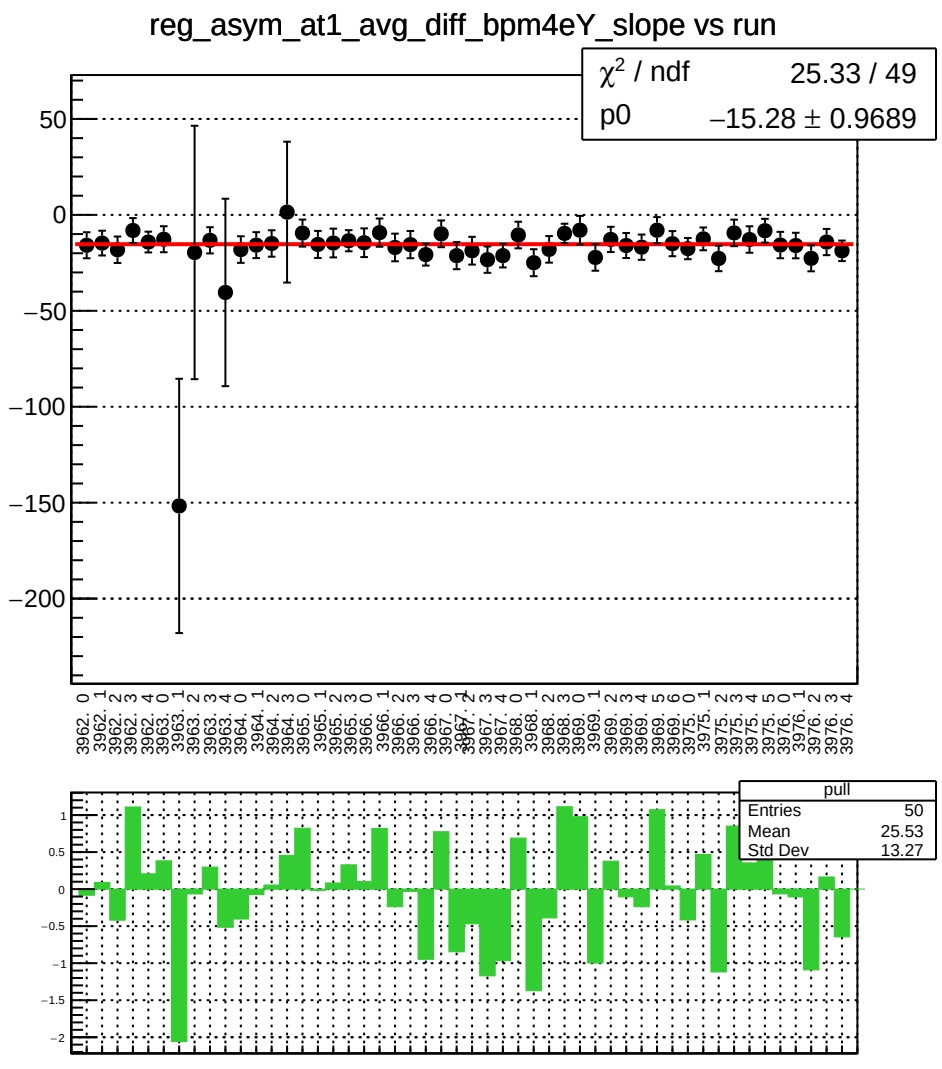

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 56.62 / 49
p0 −18.6 ± 0.8256
pull
Entries 50
Mean −46.31
Std Dev 69.68
pull1D
Entries 50
Mean −0.1026
Std Dev 1.059

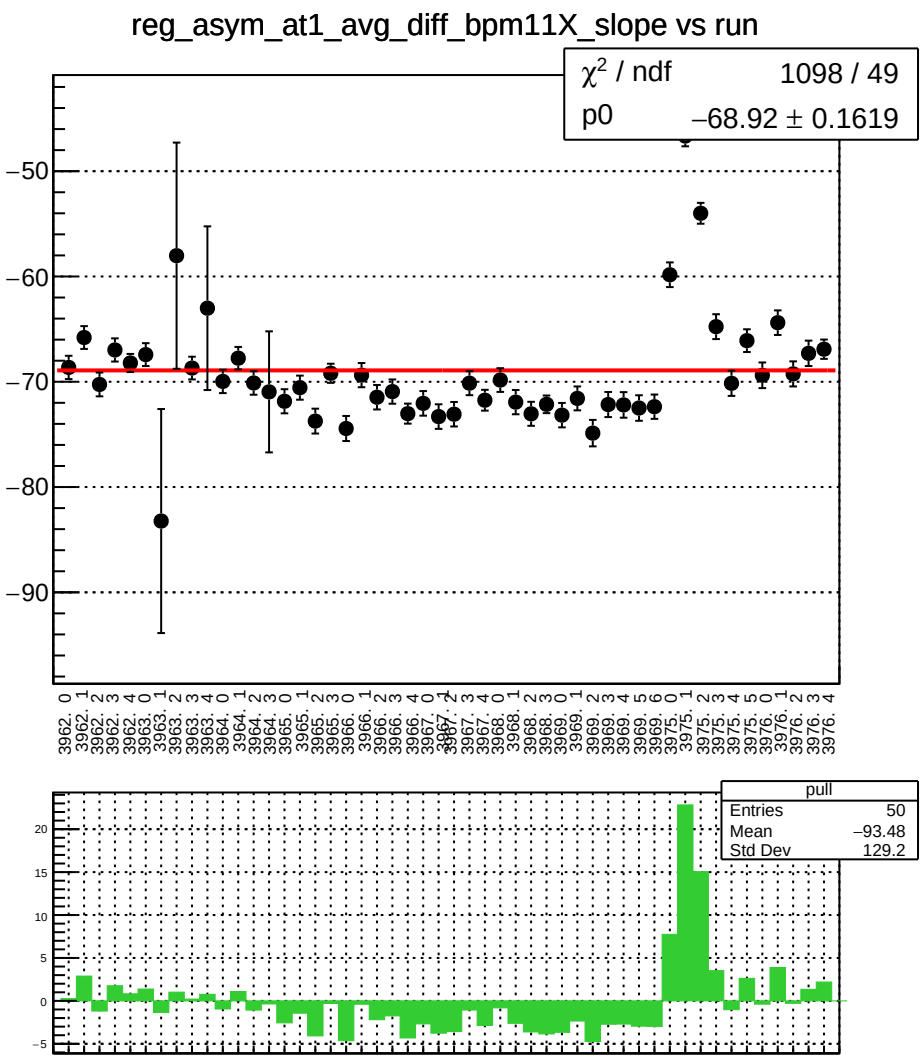

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.22 / 49
p0 13.87 ± 0.5794
pull
Entries 50
Mean −8.361
Std Dev 32.68

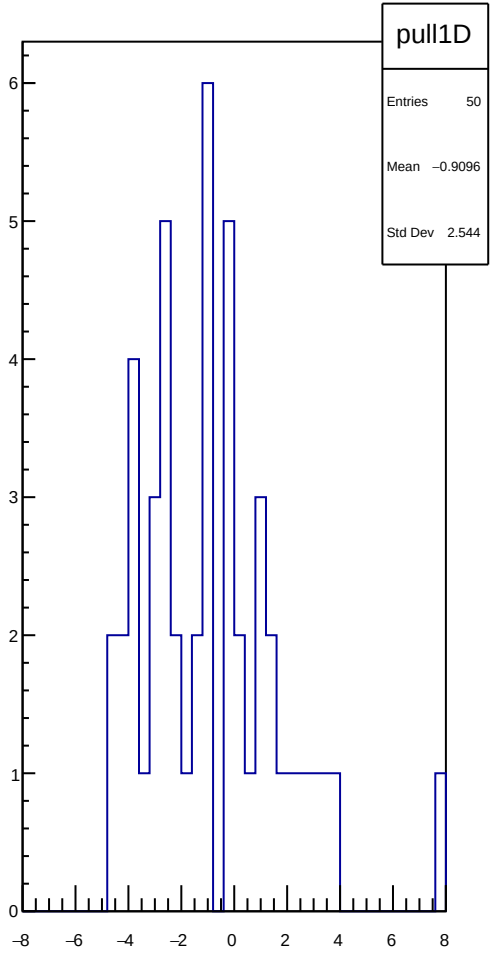

pull1D
Entries 50
Mean 0.05578
Std Dev 0.708

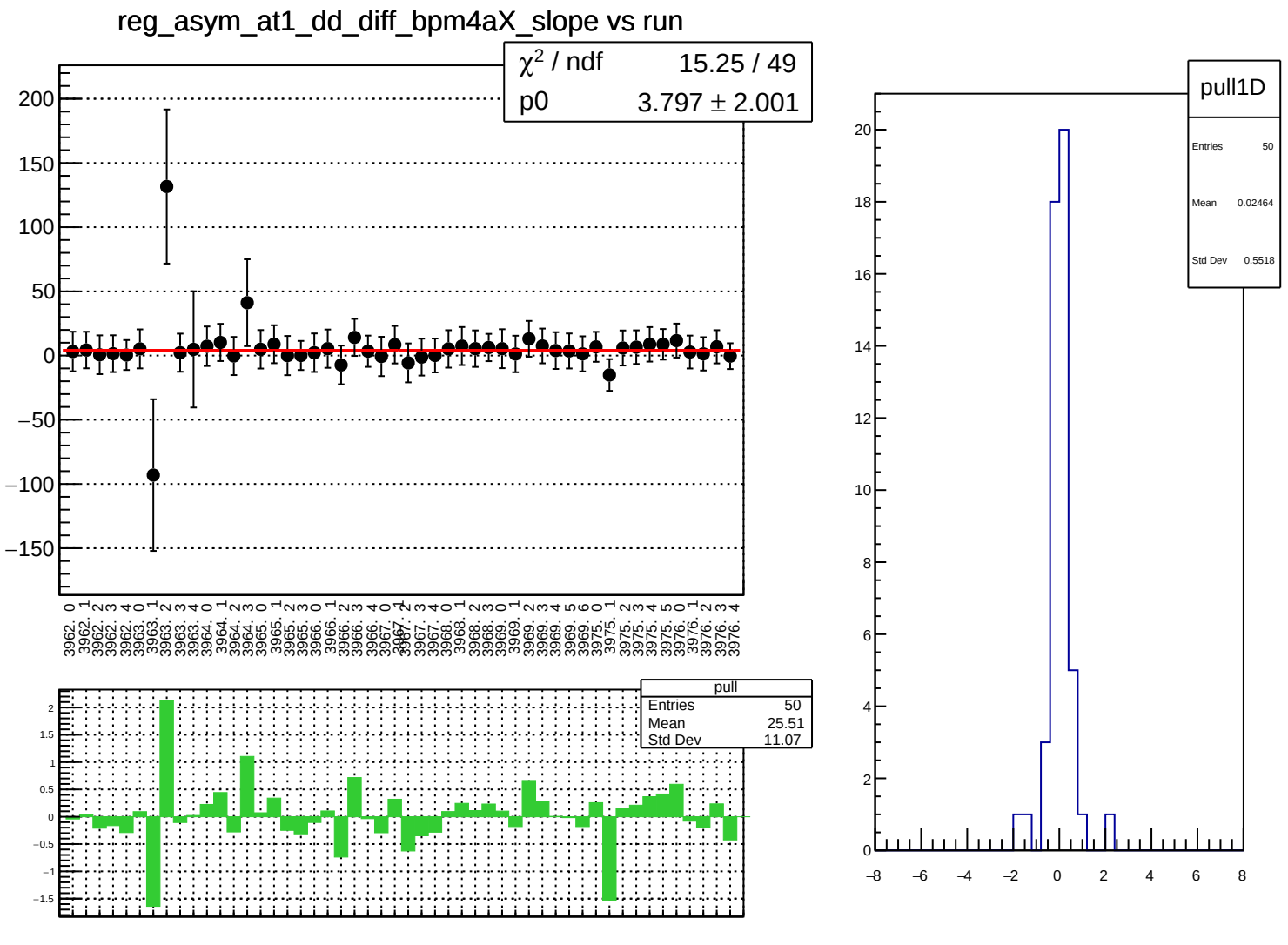

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 330.5 / 49
p0 −40.9 ± 0.1415
pull
Entries 50
Mean 30.52
Std Dev 59.12

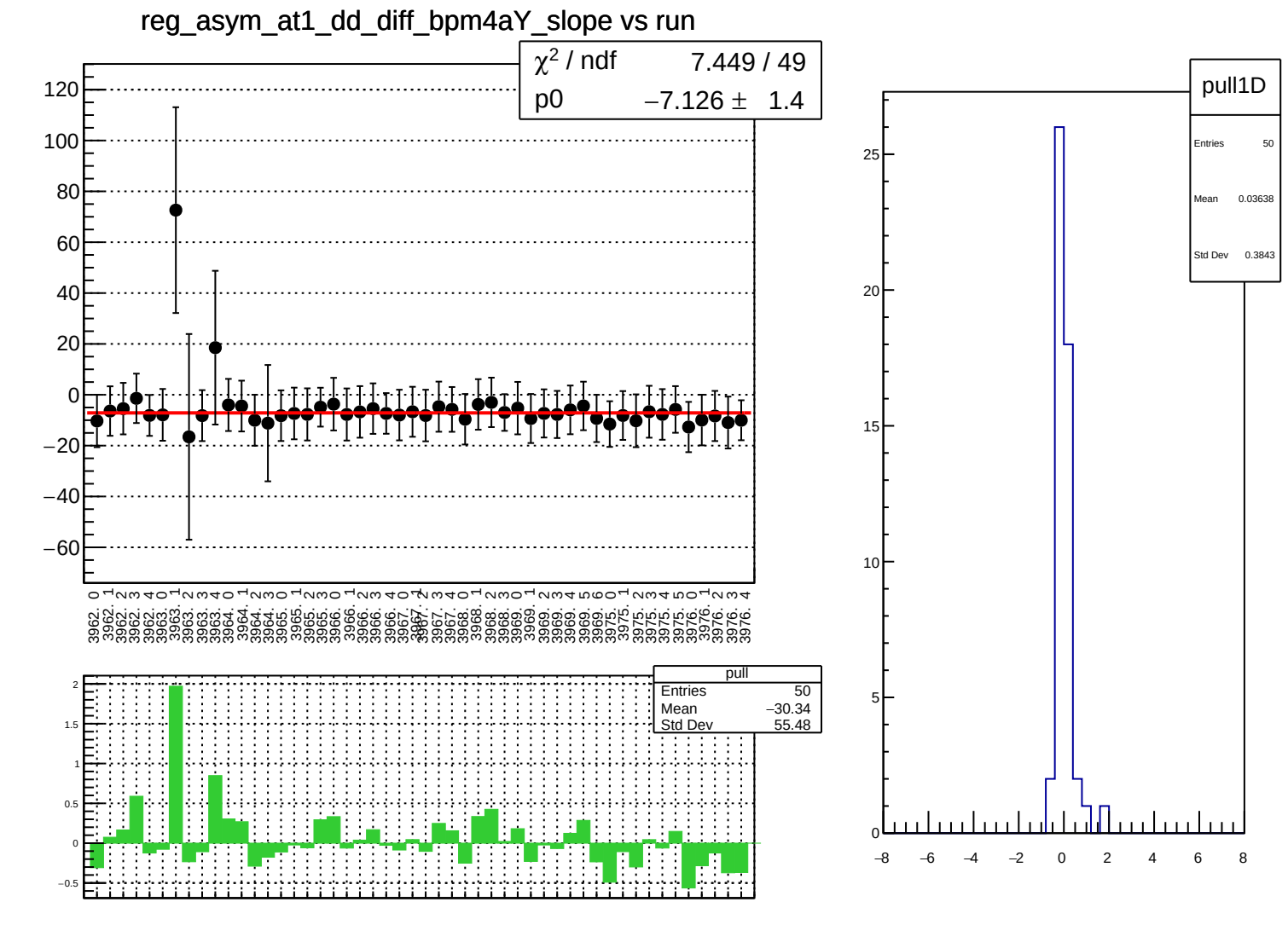

pull1D
Entries 50
Mean −0.0944
Std Dev 2.569

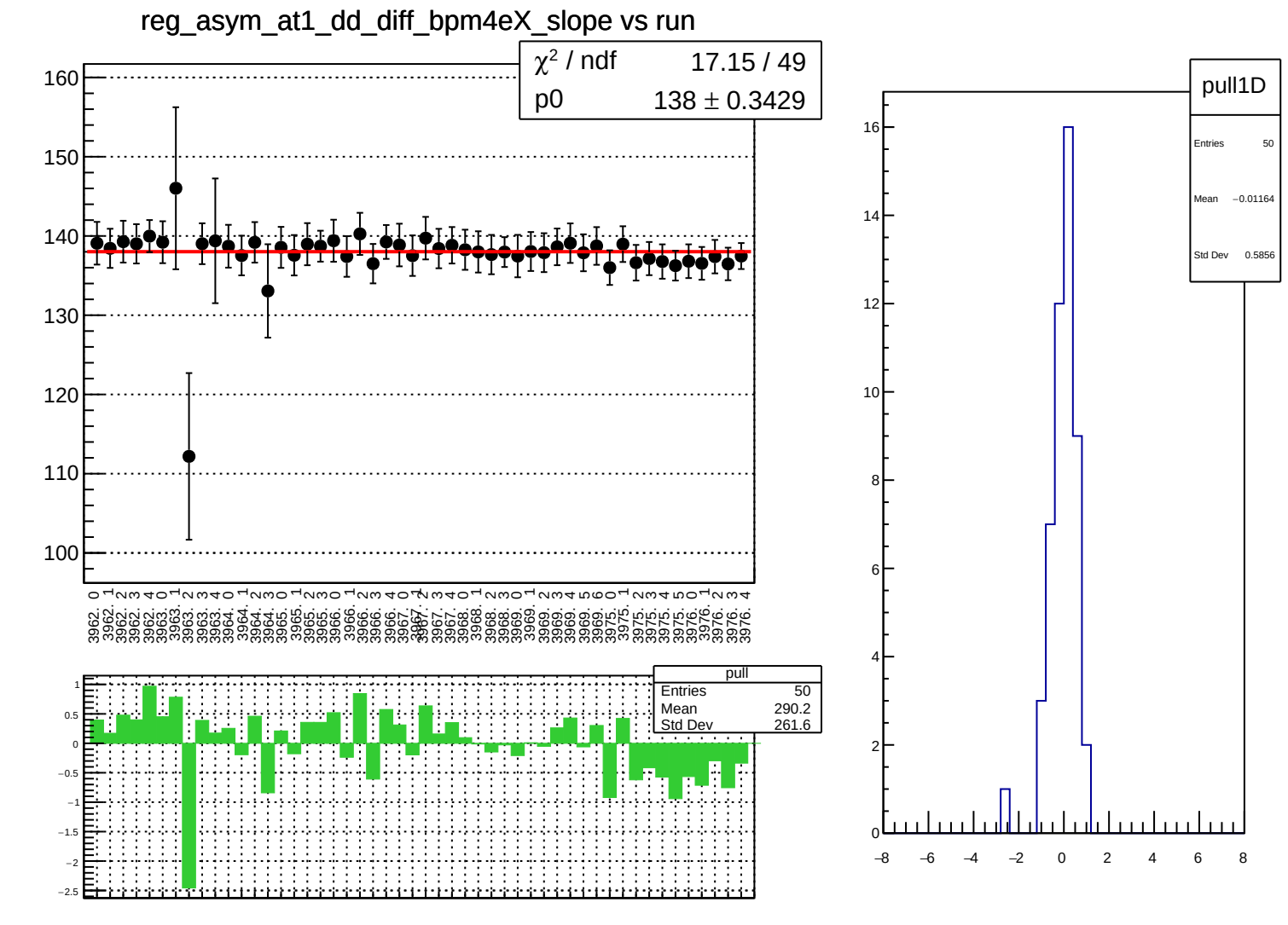

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.33 / 49
p0 −15.28 ± 0.9689
50
0
−50
−100
−150
−200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 25.53
Std Dev 13.27
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.0415
Std Dev 0.7105
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

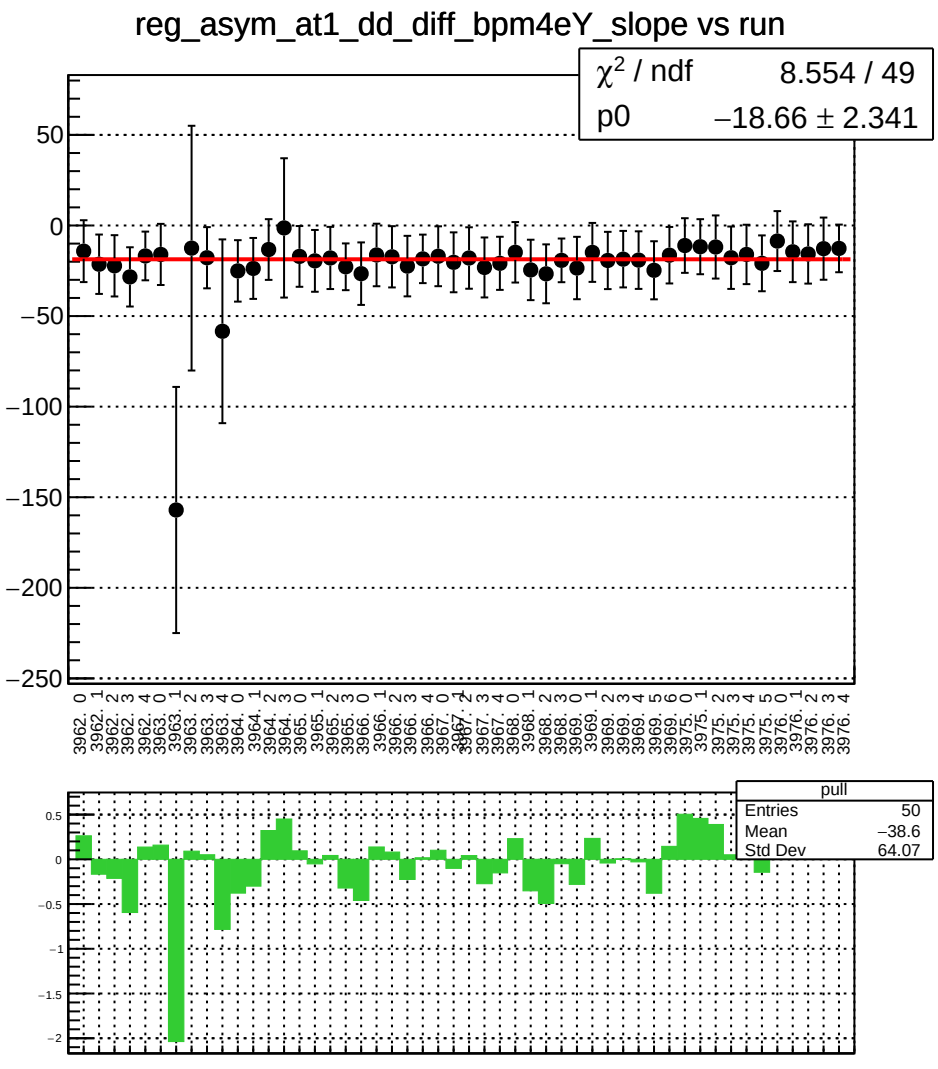

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 1098 / 49
p0 −68.92 ± 0.1619
pull
Entries 50
Mean −93.48
Std Dev 129.2

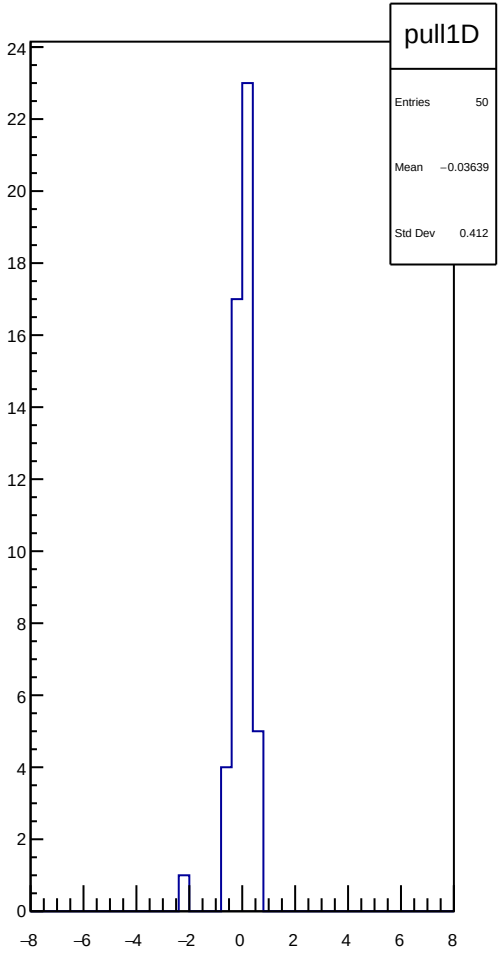

pull1D
Entries 50
Mean −0.9096
Std Dev 2.544

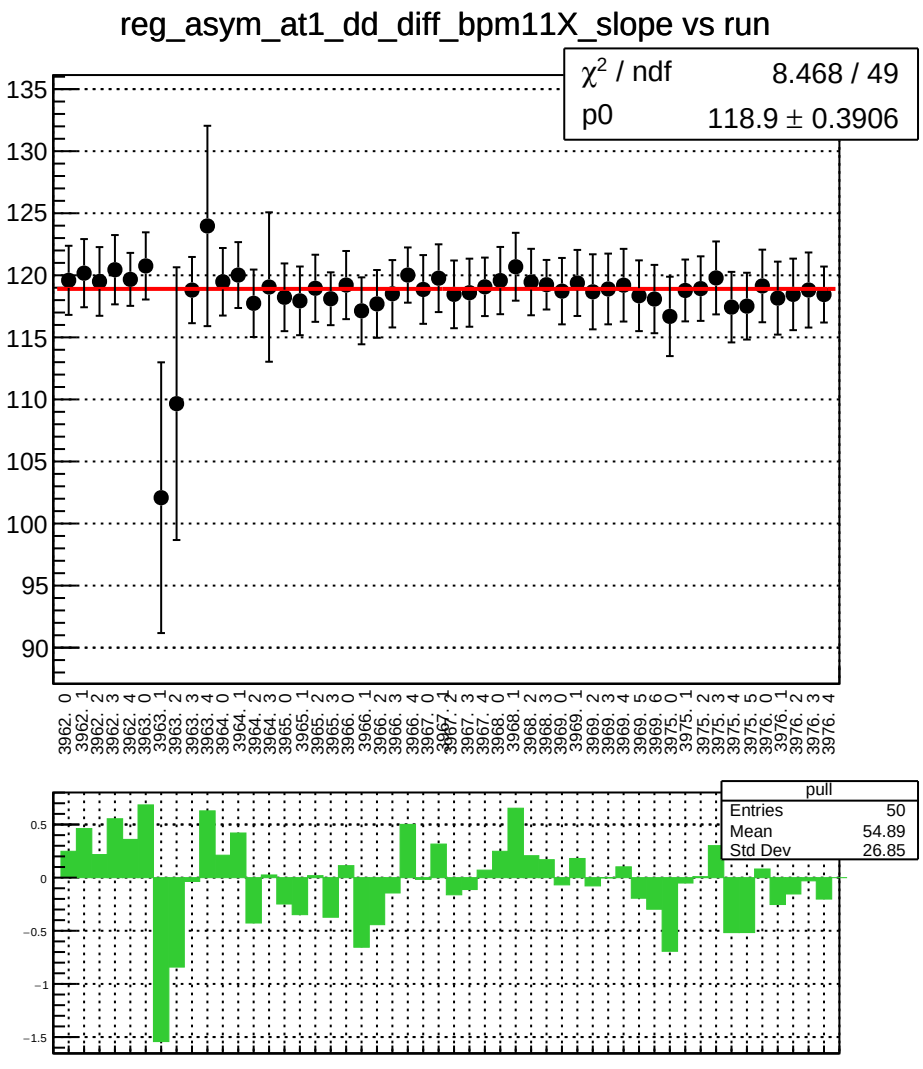

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.25 / 49
p0 3.797 ± 2.001
pull
Entries 50
Mean 25.51
Std Dev 11.07
pull1D
Entries 50
Mean 0.02464
Std Dev 0.5518

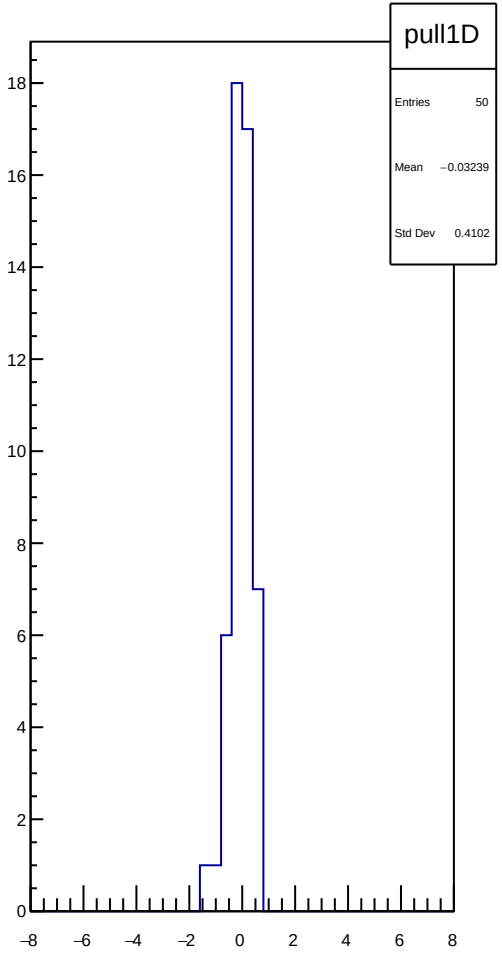

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.449 / 49
p0 −7.126 ± 1.4
pull
Entries 50
Mean −30.34
Std Dev 55.48
pull1D
Entries 50
Mean 0.03638
Std Dev 0.3843

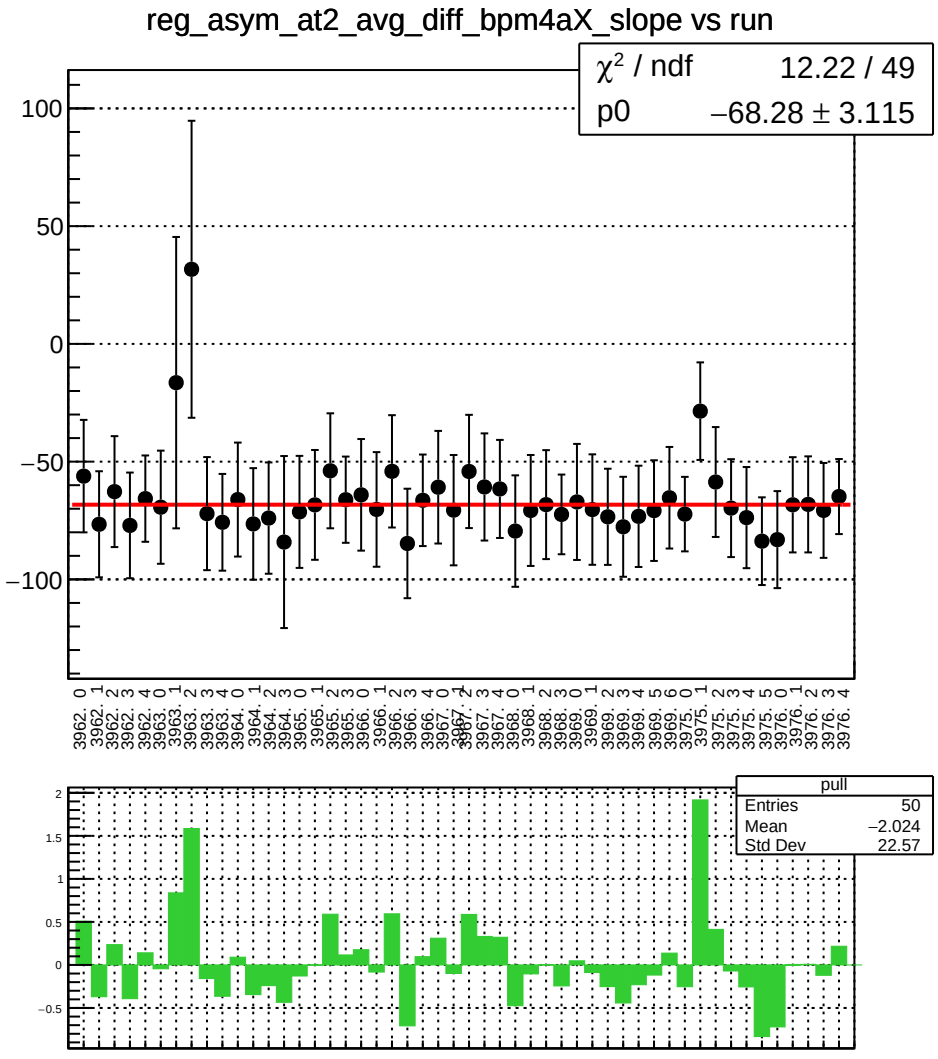

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.15 / 49
p0 138 ± 0.3429
160
150
140
130
120
110
100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 290.2
Std Dev 261.6
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean −0.01164
Std Dev 0.5856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

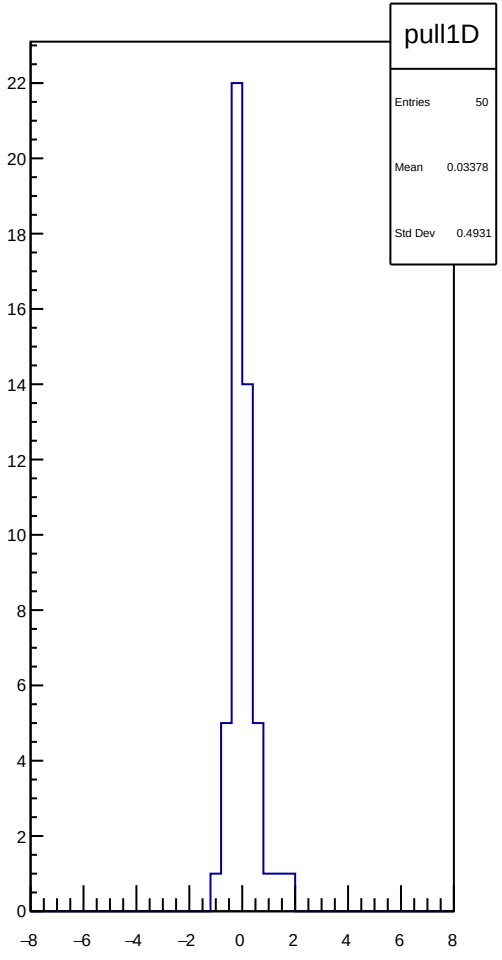

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.554 / 49
p0 −18.66 ± 2.341
pull
Entries 50
Mean −38.6
Std Dev 64.07

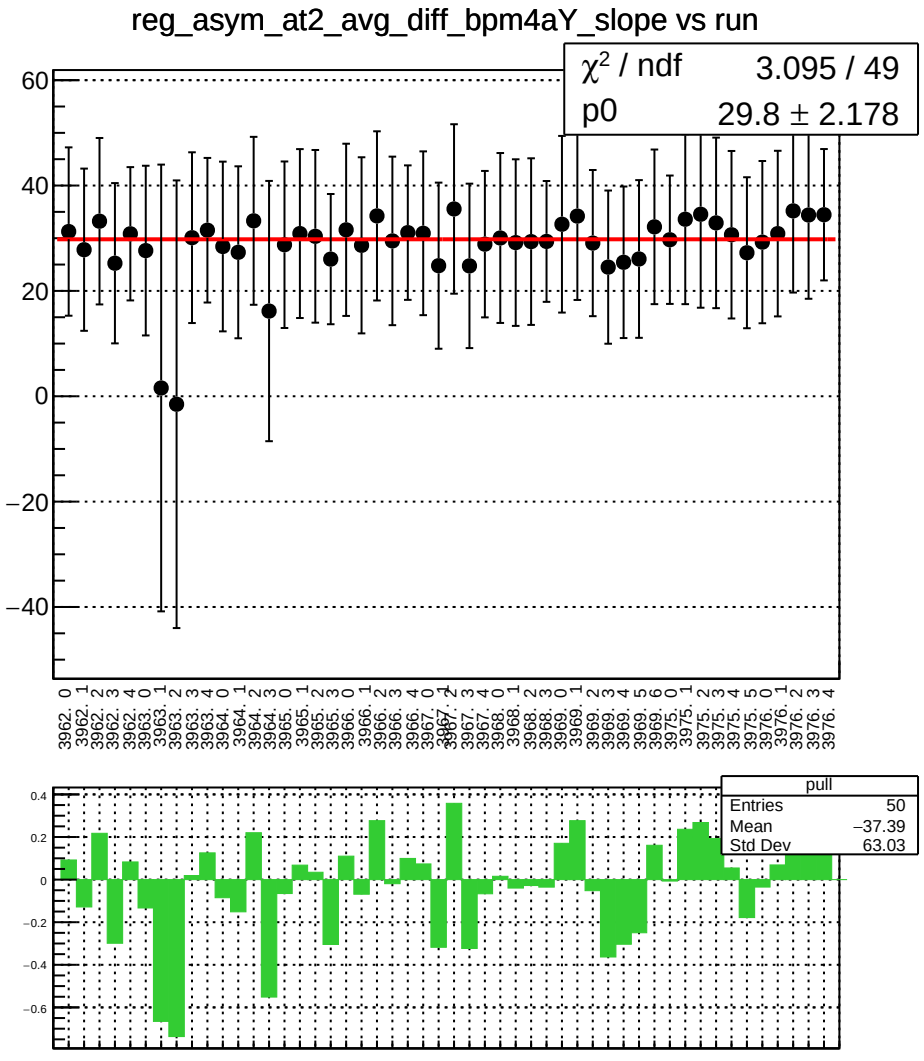

pull1D
Entries 50
Mean −0.03639
Std Dev 0.412

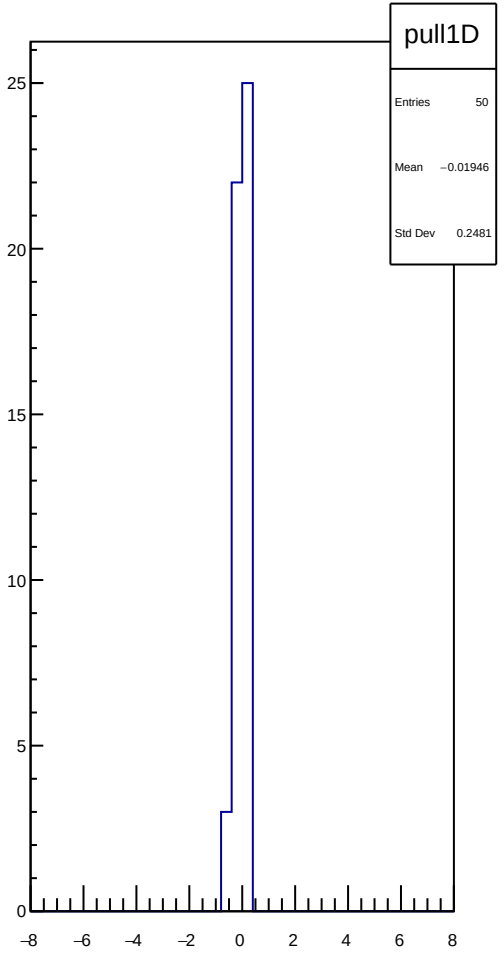

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 8.468 / 49
p0 118.9 ± 0.3906
pull
Entries 50
Mean 54.89
Std Dev 26.85

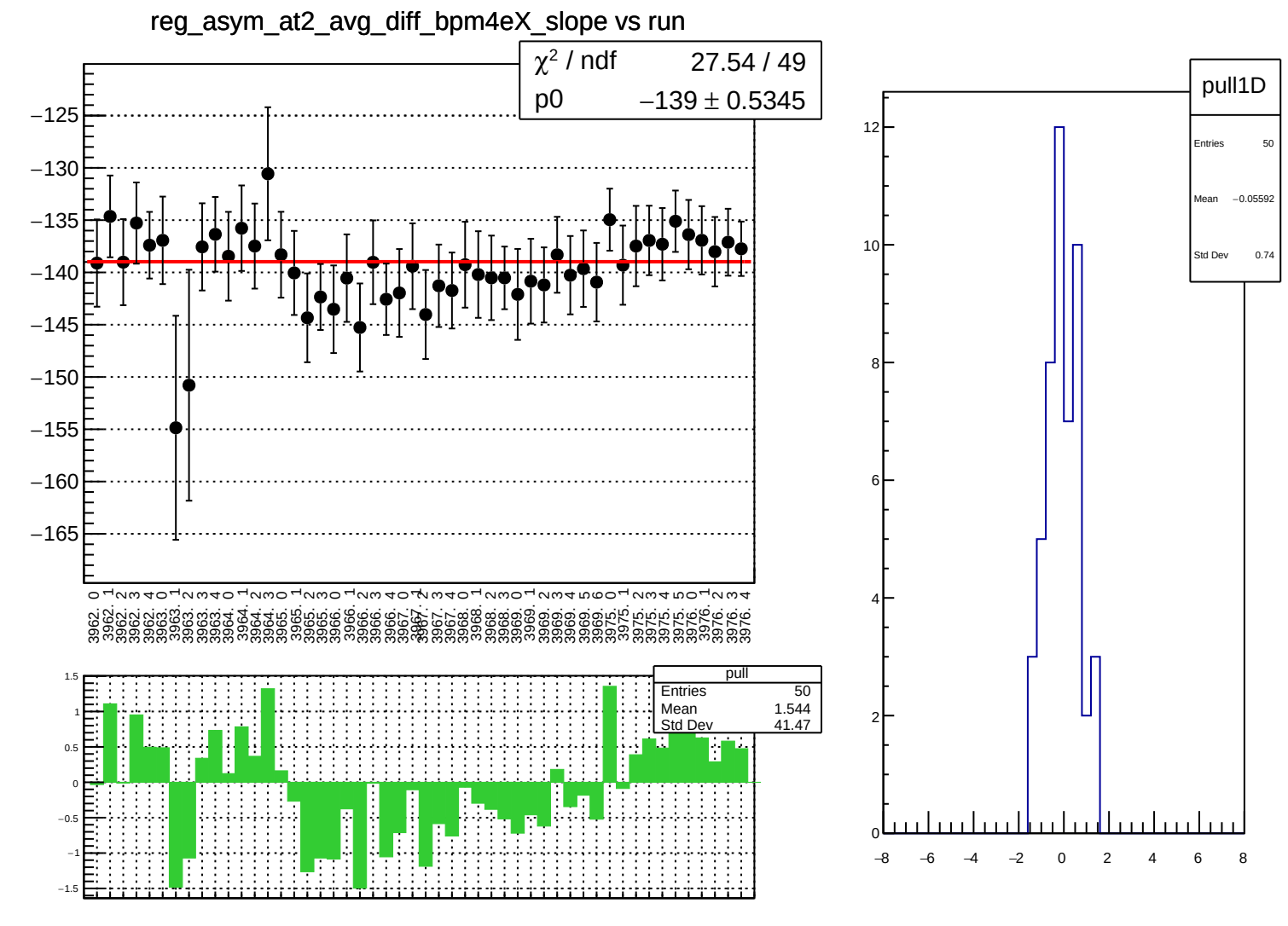

pull1D
Entries 50
Mean −0.03239
Std Dev 0.4102

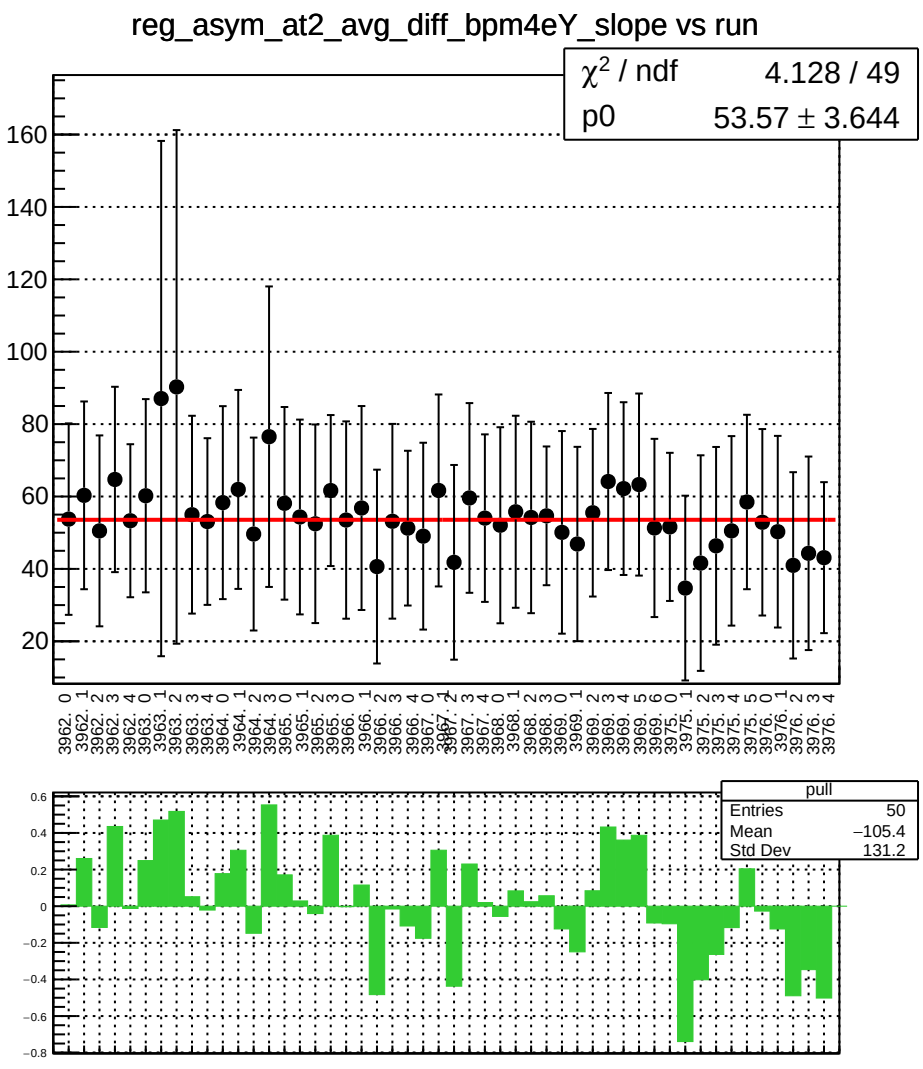

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.22 / 49
p0 −68.28 ± 3.115
100
50
0
−50
−100
pull
Entries 50
Mean −2.024
Std Dev 22.57
2
1.5
1
0.5
0
−0.5

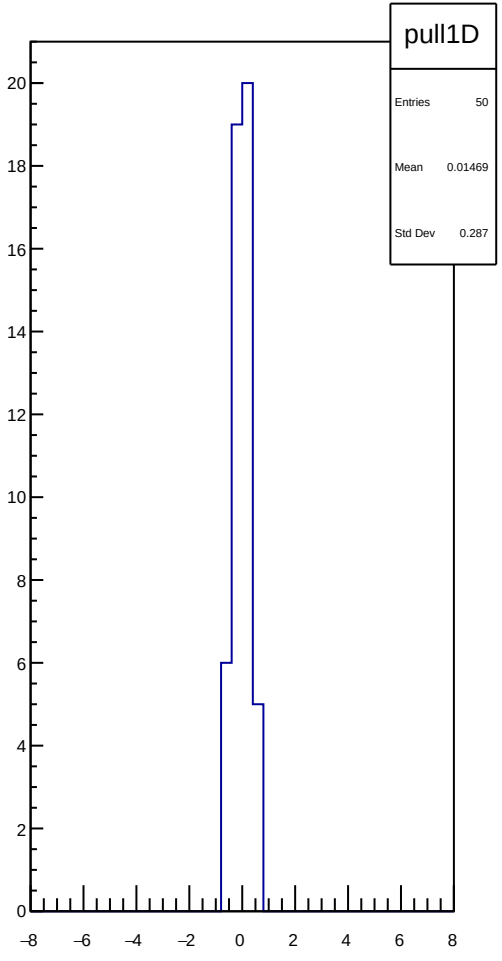

pull1D
Entries 50
Mean 0.03378
Std Dev 0.4931
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

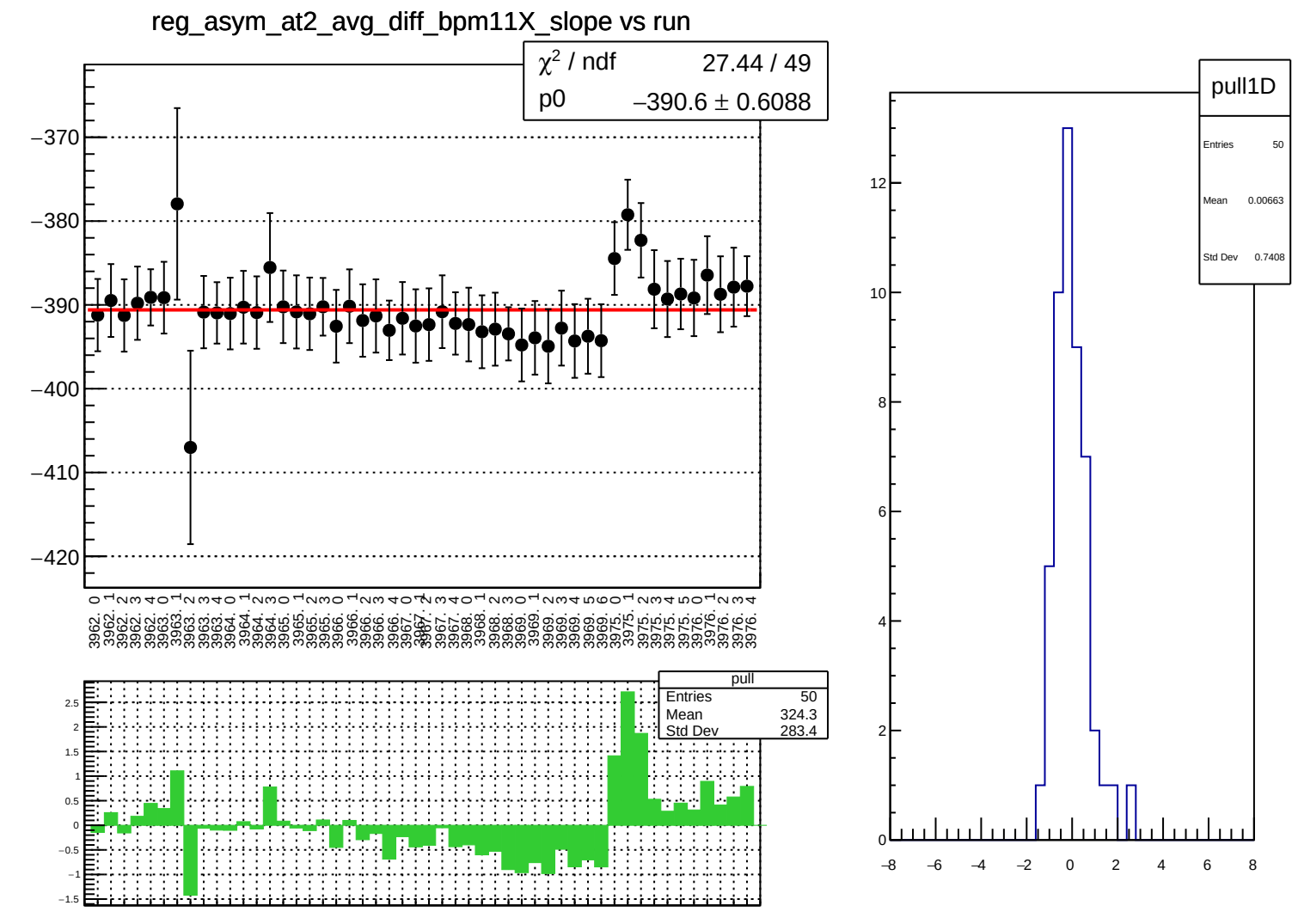

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.095 / 49
p0 29.8 ± 2.178
pull
Entries 50
Mean −37.39
Std Dev 63.03

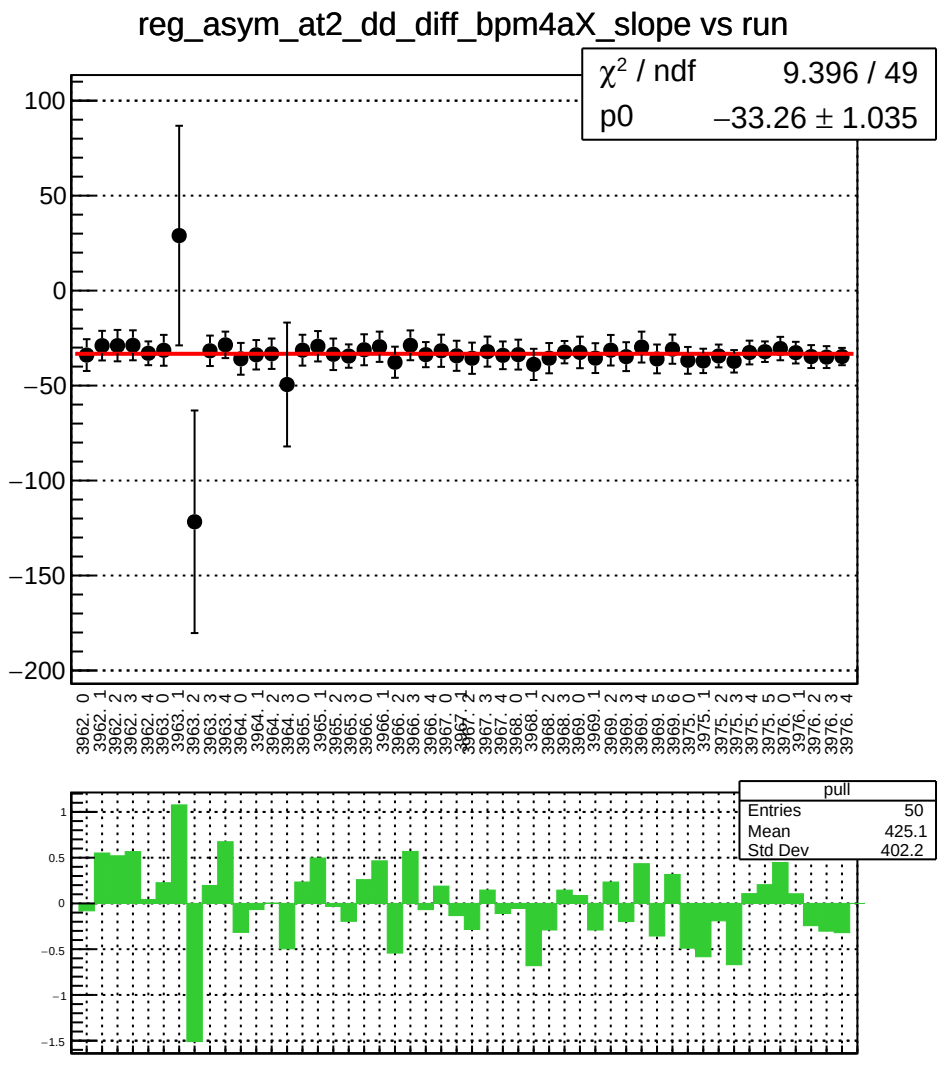

pull1D
Entries 50
Mean −0.01946
Std Dev 0.2481

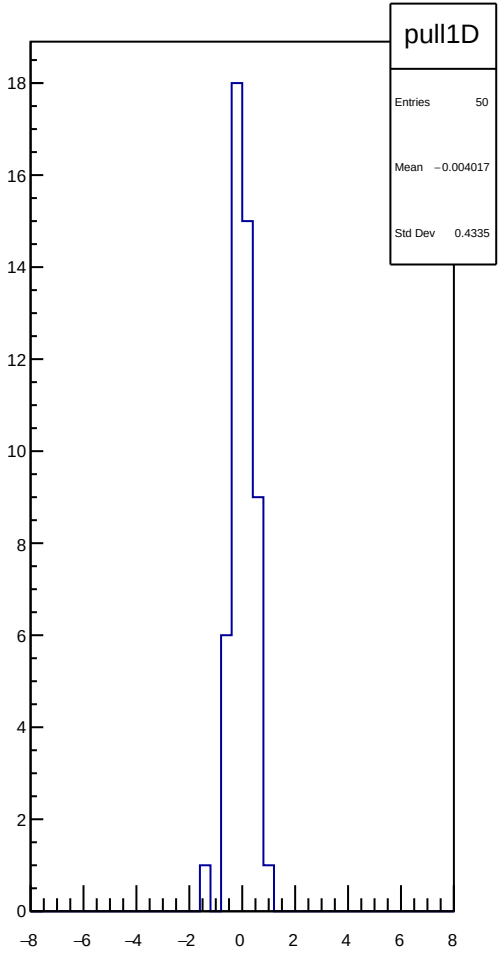

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.54 / 49
p0 −139 ± 0.5345
pull
Entries 50
Mean 1.544
Std Dev 41.47
pull1D
Entries 50
Mean −0.05592
Std Dev 0.74

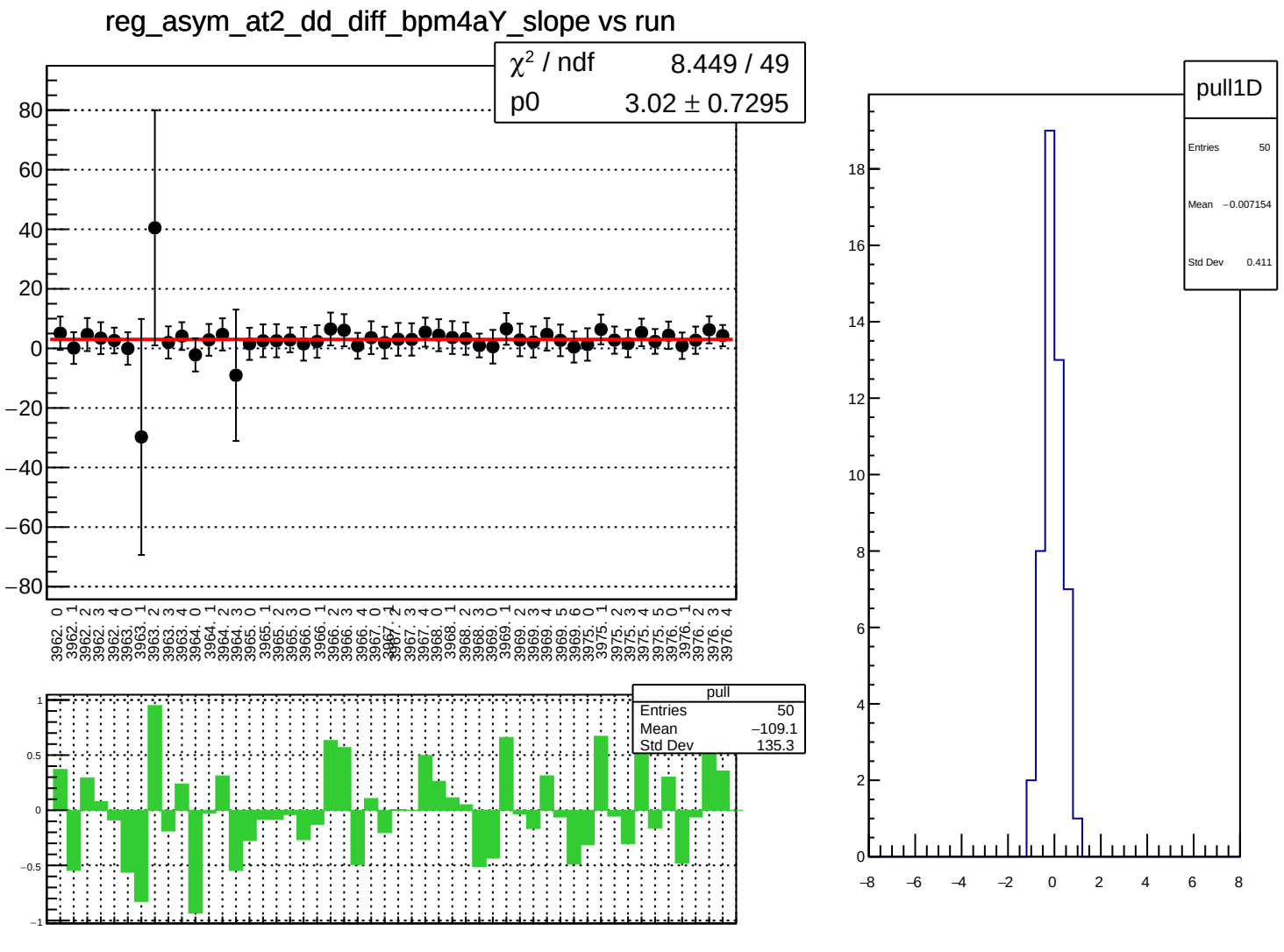

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.128 / 49
p0 53.57 ± 3.644
pull
Entries 50
Mean −105.4
Std Dev 131.2

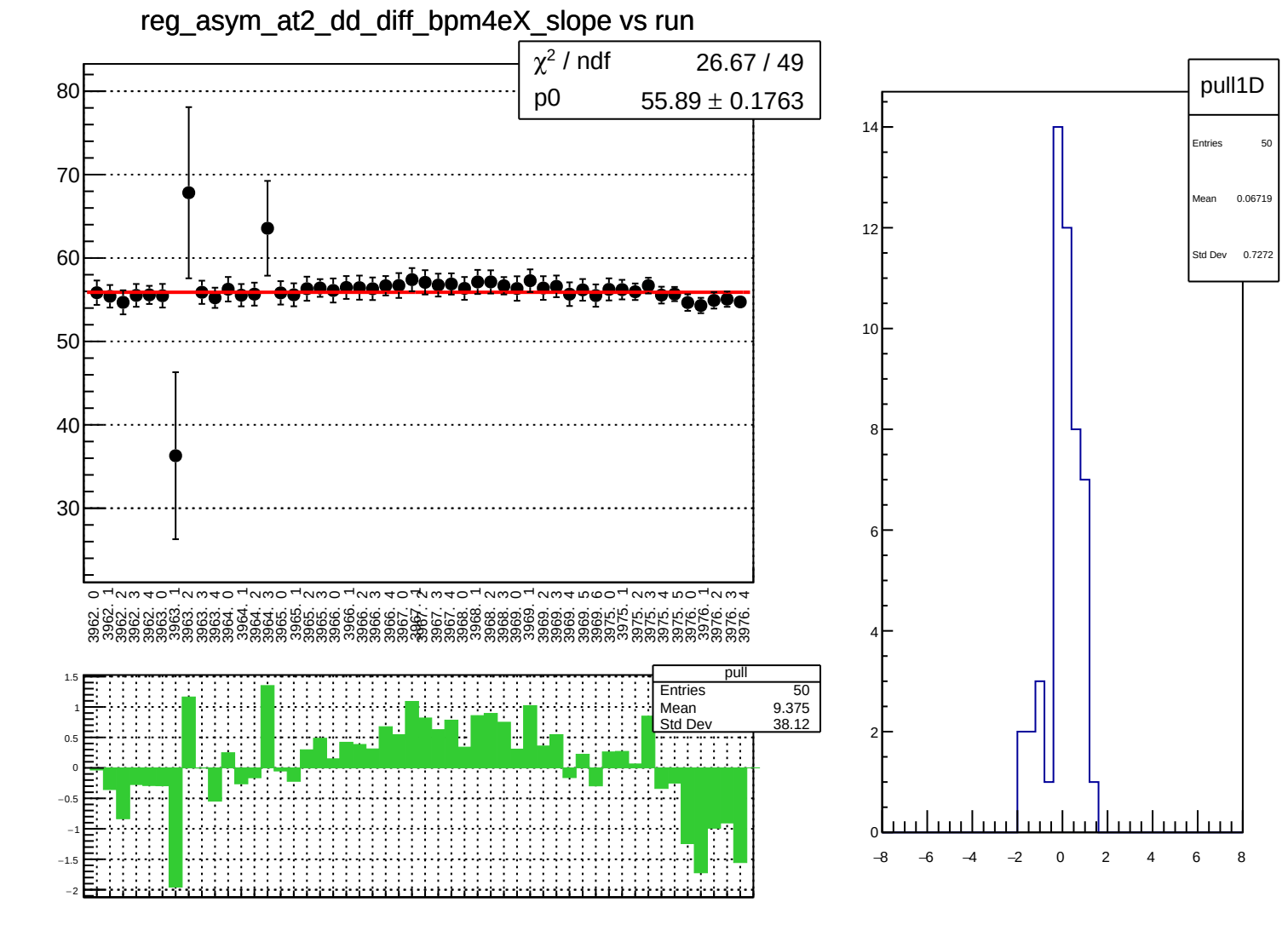

pull1D
Entries 50
Mean 0.01469
Std Dev 0.287

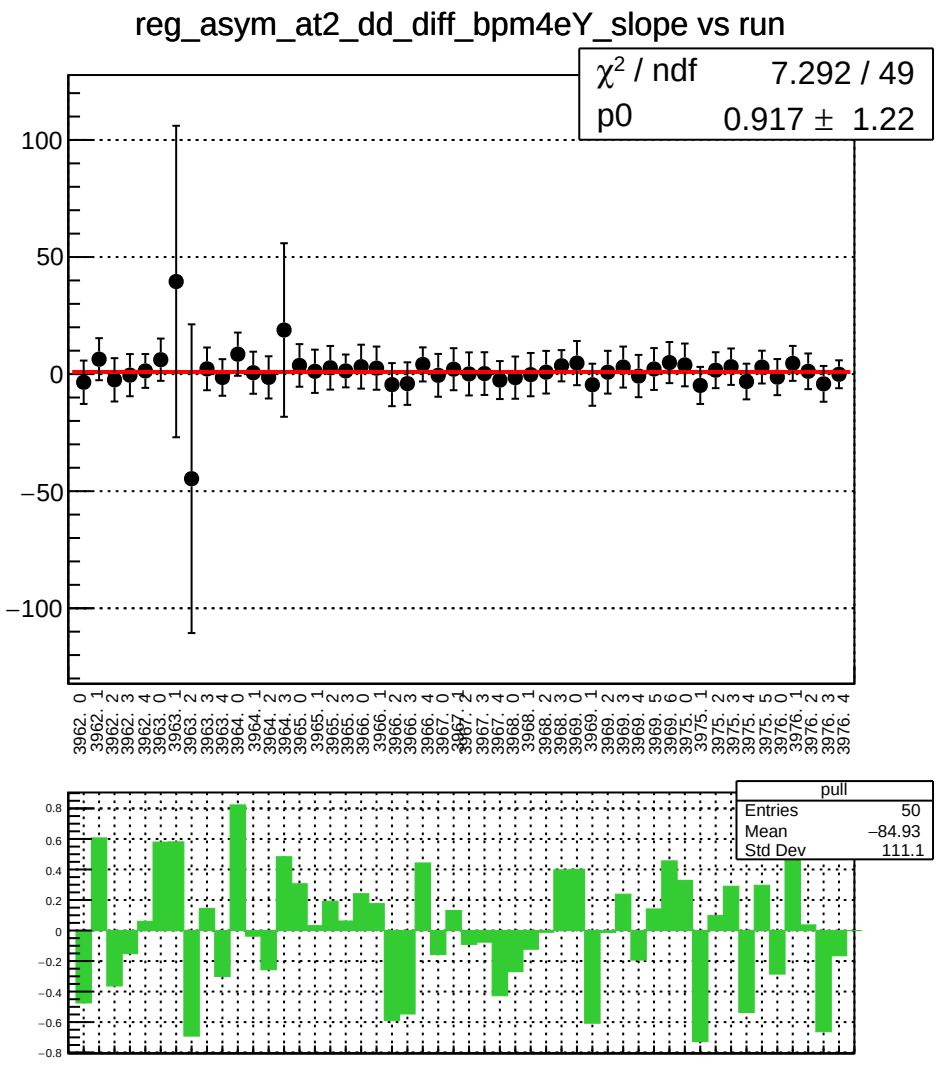

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 27.44 / 49
p0 −390.6 ± 0.6088
−370
−380
−390
−400
−410
−420
pull
Entries 50
Mean 324.3
Std Dev 283.4
pull1D
Entries 50
Mean 0.00663
Std Dev 0.7408

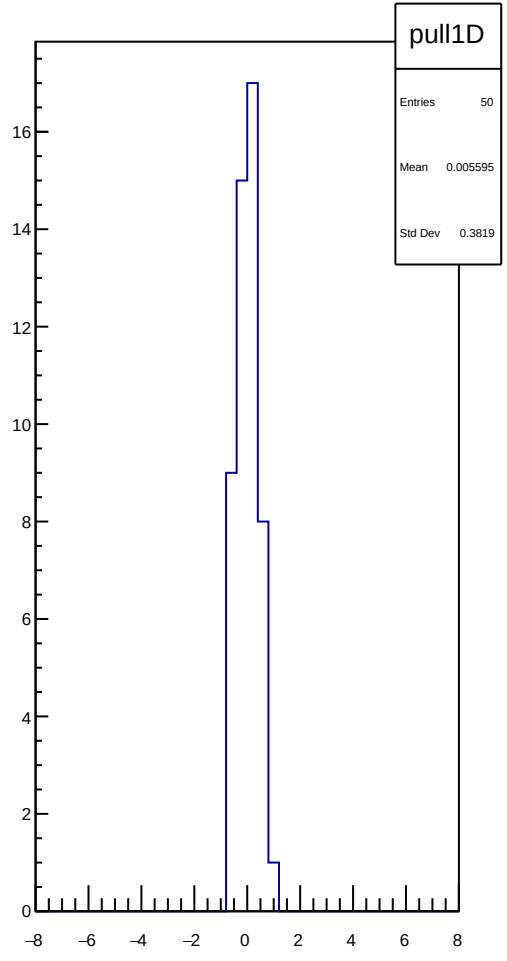

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.396 / 49
p0 −33.26 ± 1.035
pull
Entries 50
Mean 425.1
Std Dev 402.2

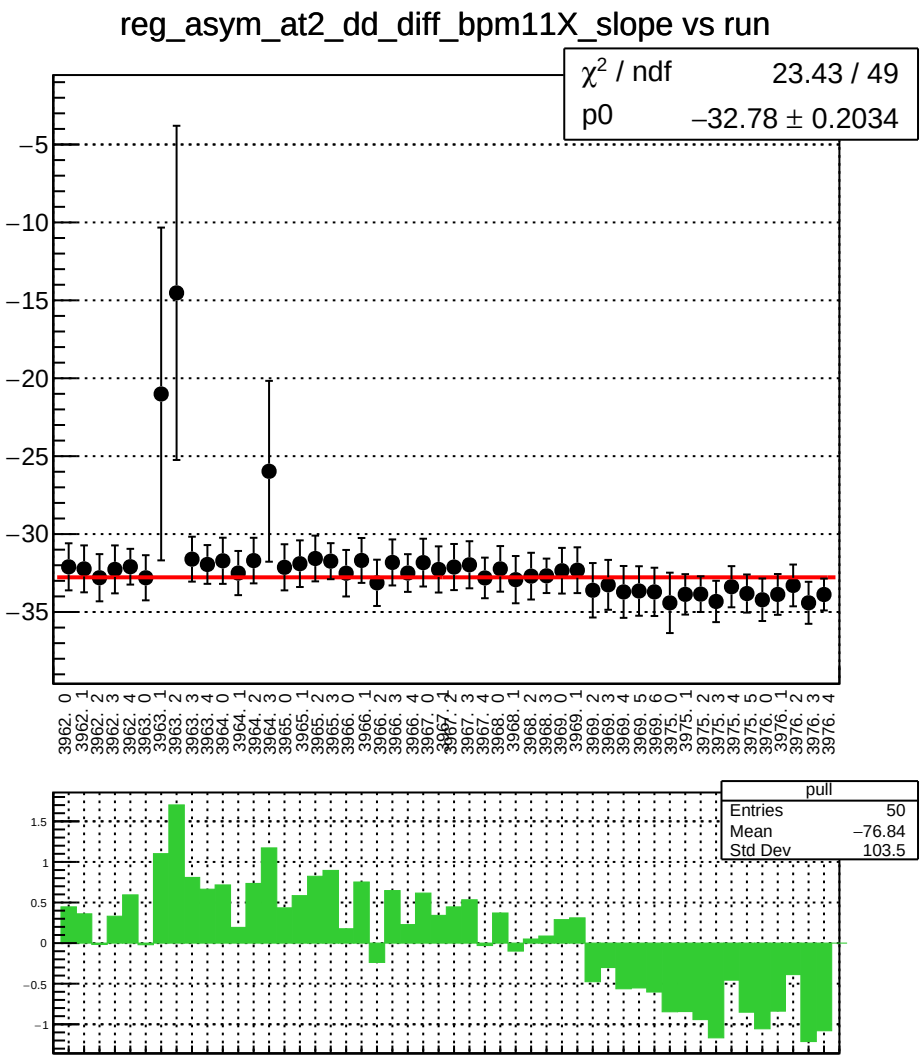

pull1D
Entries 50
Mean −0.004017
Std Dev 0.4335

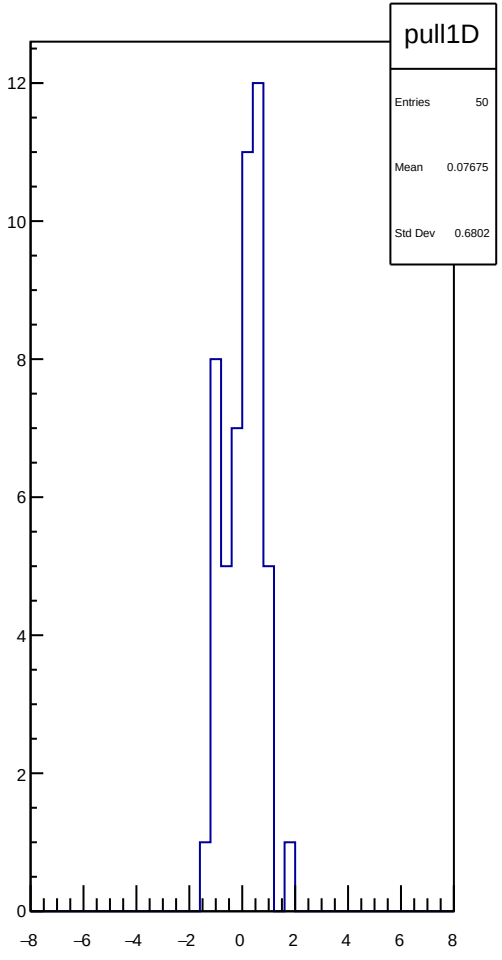

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.449 / 49
p0 3.02 ± 0.7295
pull
Entries 50
Mean −109.1
Std Dev 135.3
pull1D
Entries 50
Mean −0.007154
Std Dev 0.411

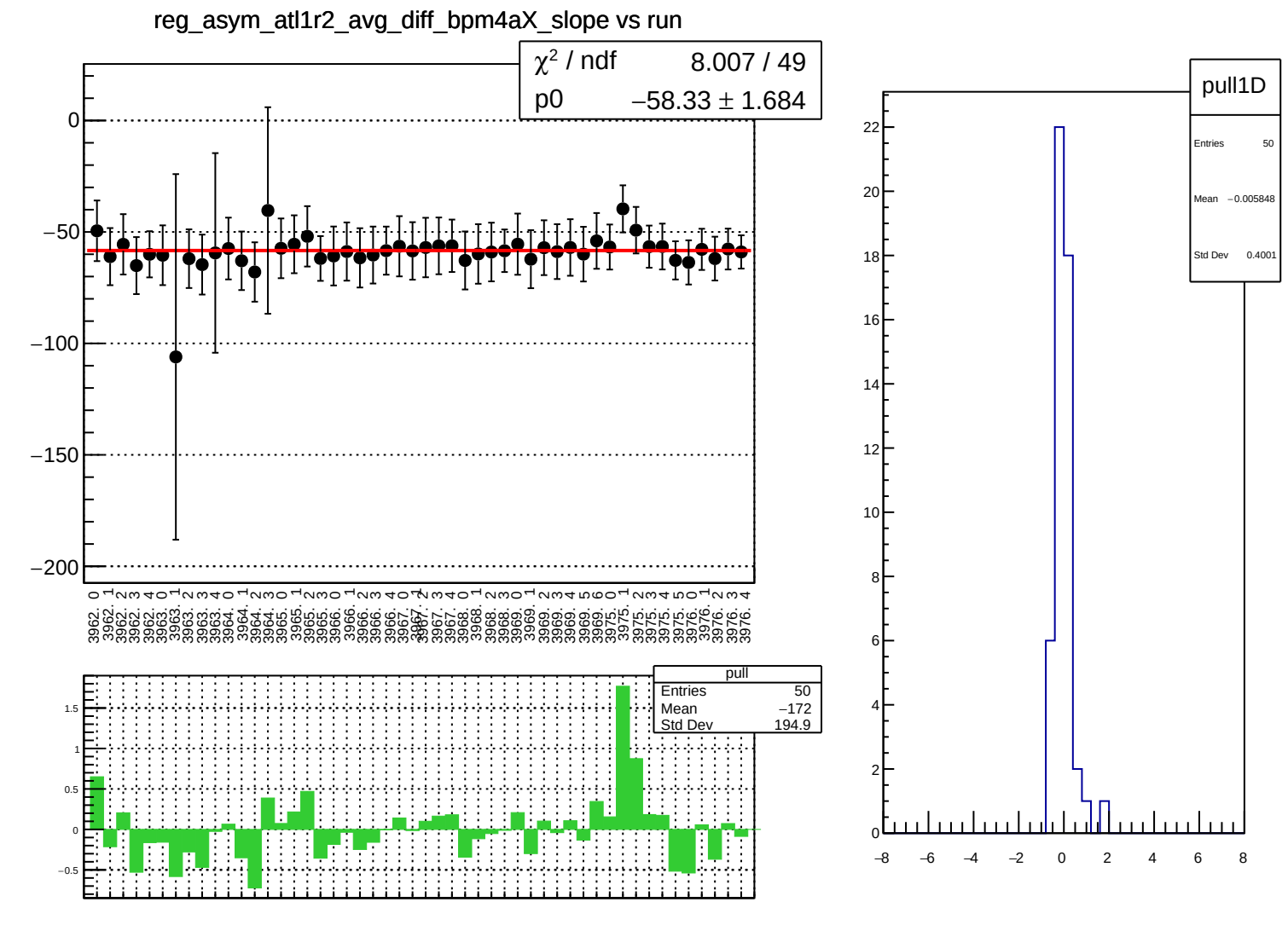

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.67 / 49
p0 55.89 ± 0.1763
pull
Entries 50
Mean 9.375
Std Dev 38.12
pull1D
Entries 50
Mean 0.06719
Std Dev 0.7272

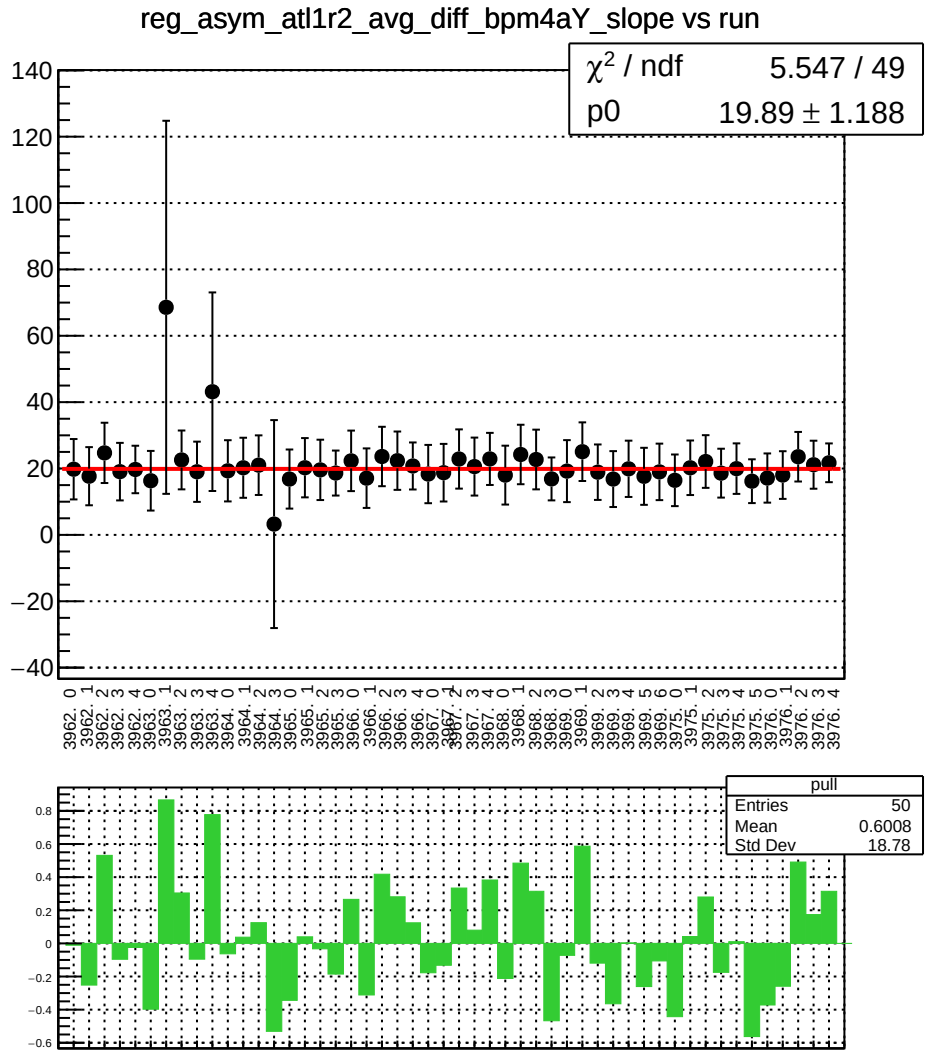

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.292 / 49
p0 0.917 ± 1.22
100
50
0
−50
−100
pull
Entries 50
Mean −84.93
Std Dev 111.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

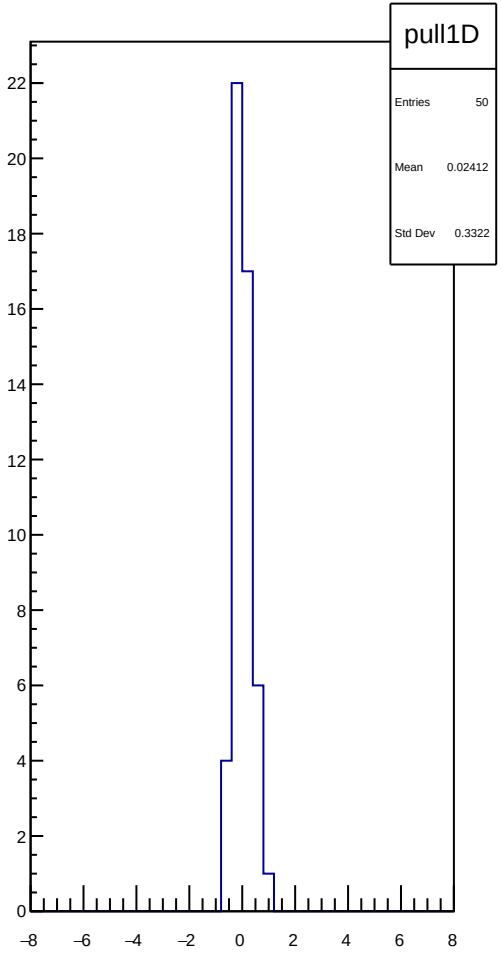

pull1D
Entries 50
Mean 0.005595
Std Dev 0.3819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

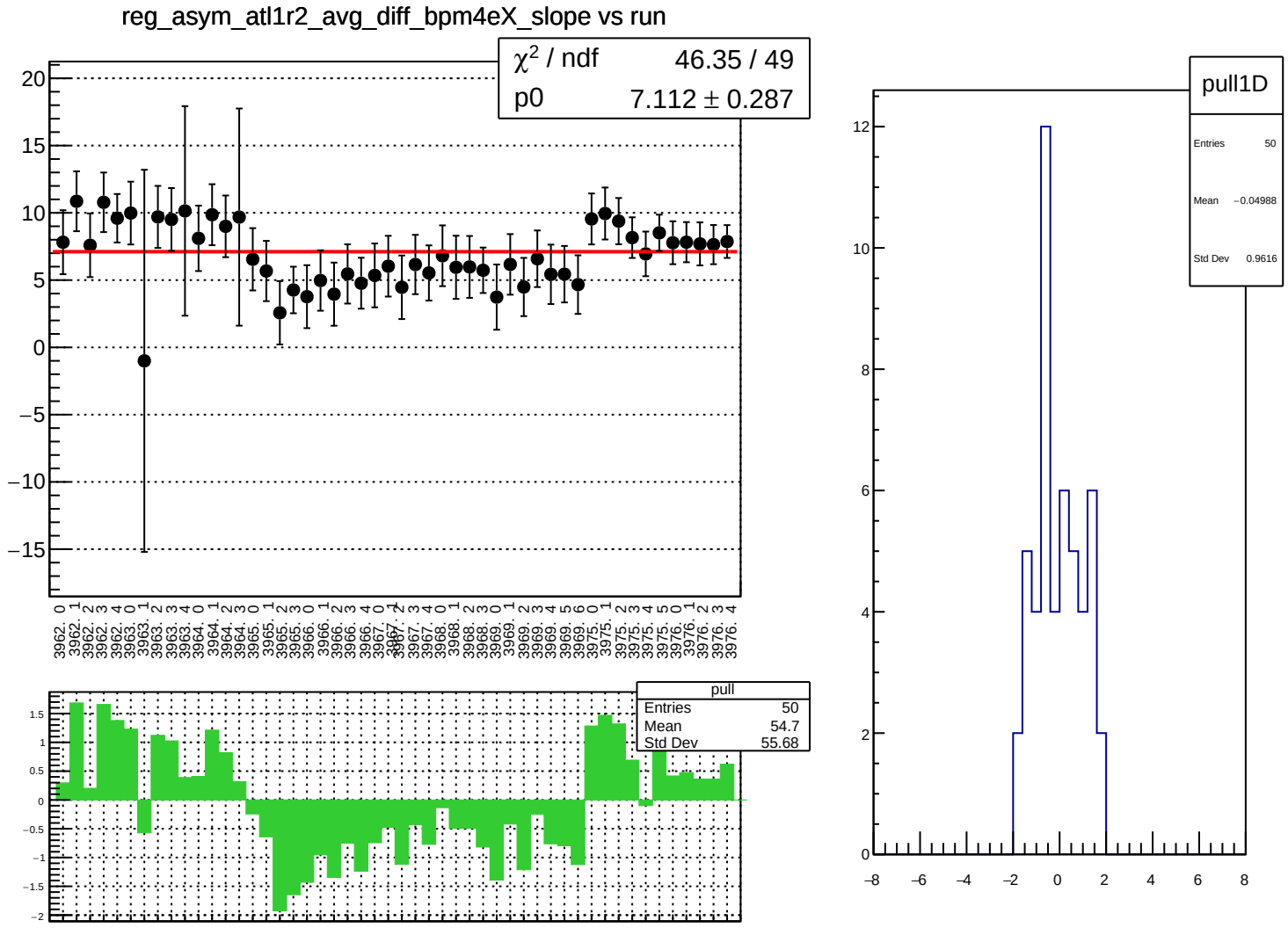

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 23.43 / 49
p0 −32.78 ± 0.2034
pull
Entries 50
Mean −76.84
Std Dev 103.5

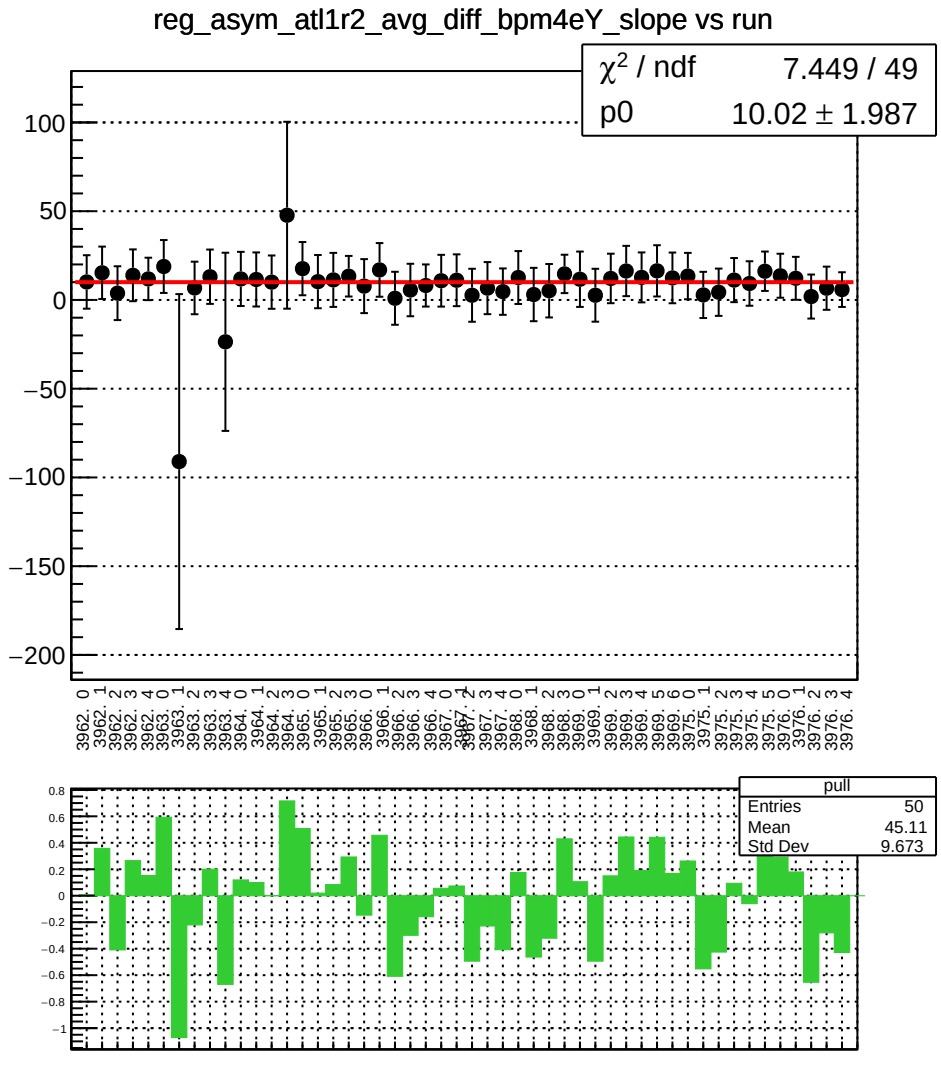

pull1D
Entries 50
Mean 0.07675
Std Dev 0.6802

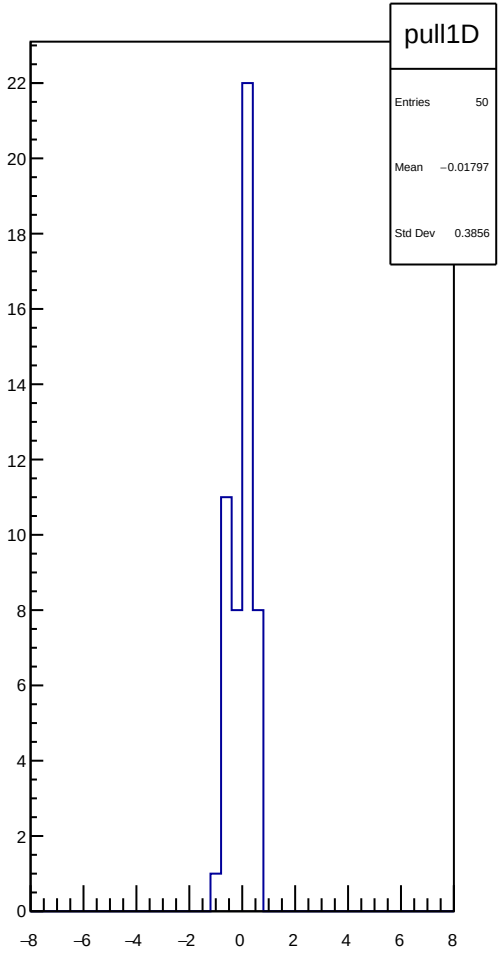

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.007 / 49
p0 −58.33 ± 1.684
0
−50
−100
−150
−200
pull
Entries 50
Mean −172
Std Dev 194.9
1.5
1
0.5
0
−0.5
pull1D
Entries 50
Mean −0.005848
Std Dev 0.4001
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

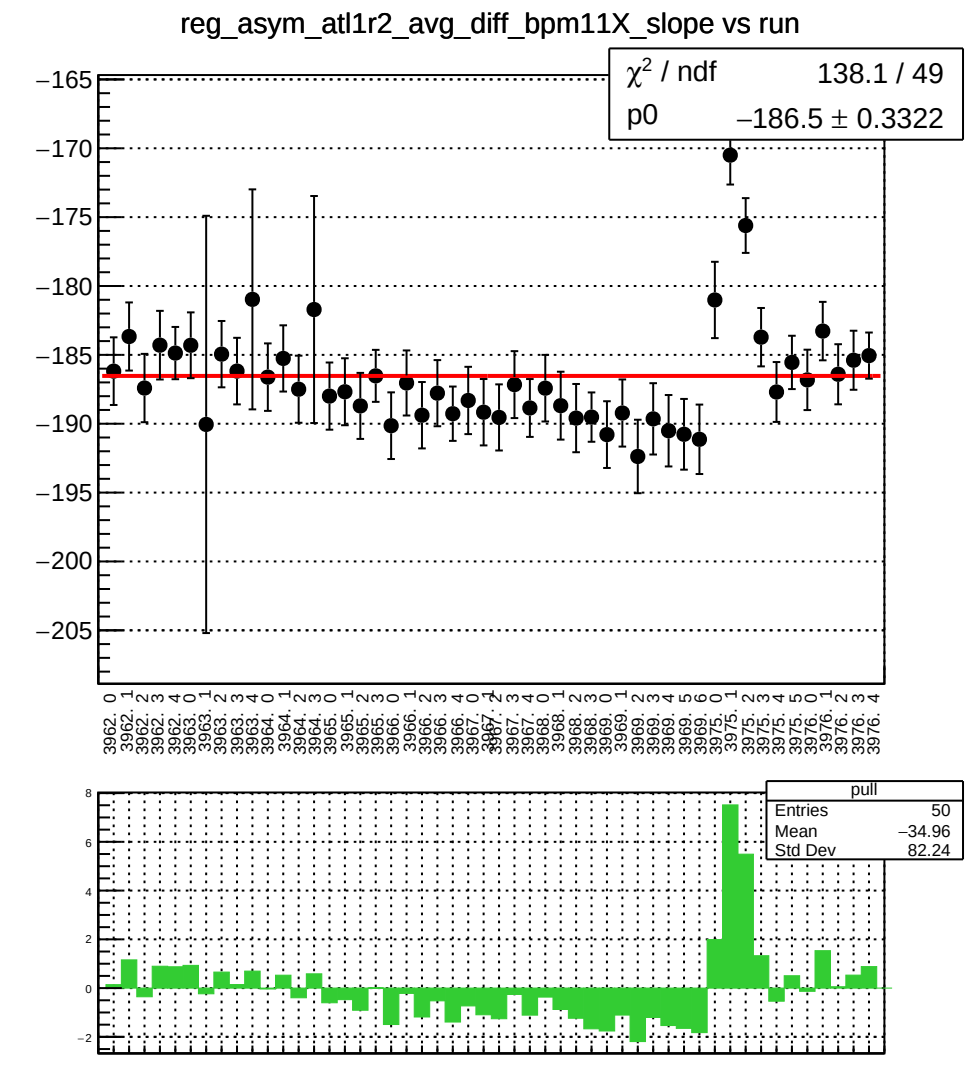

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.547 / 49
p0 19.89 ± 1.188
pull
Entries 50
Mean 0.6008
Std Dev 18.78

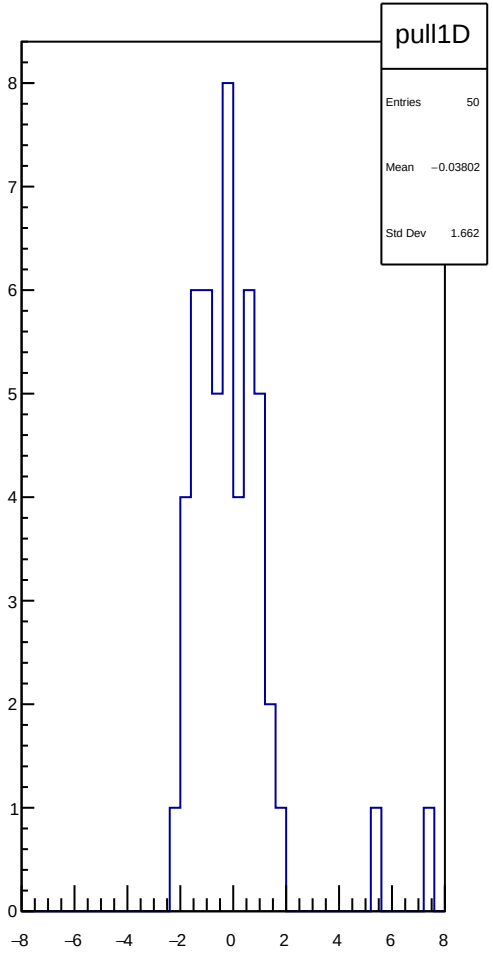

pull1D
Entries 50
Mean 0.02412
Std Dev 0.3322

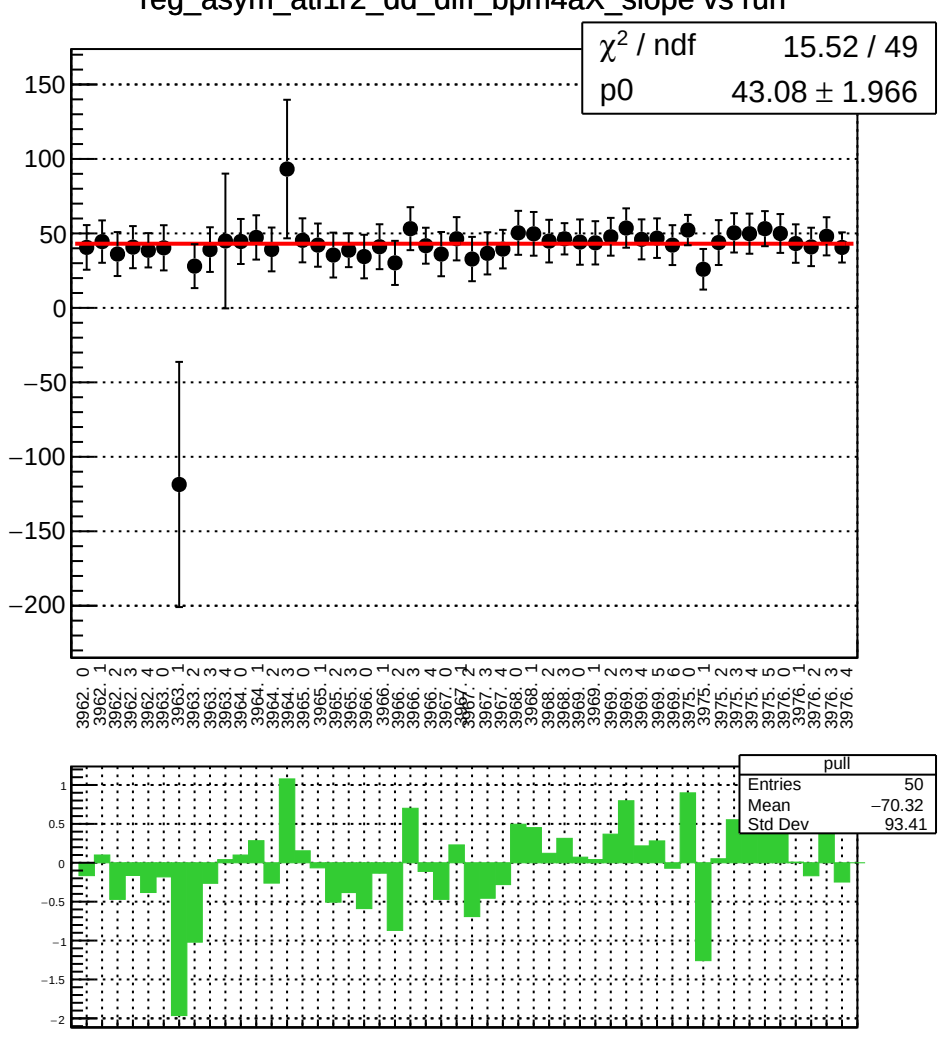

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.35 / 49
p0 7.112 ± 0.287
pull
Entries 50
Mean 54.7
Std Dev 55.68
pull1D
Entries 50
Mean −0.04988
Std Dev 0.9616

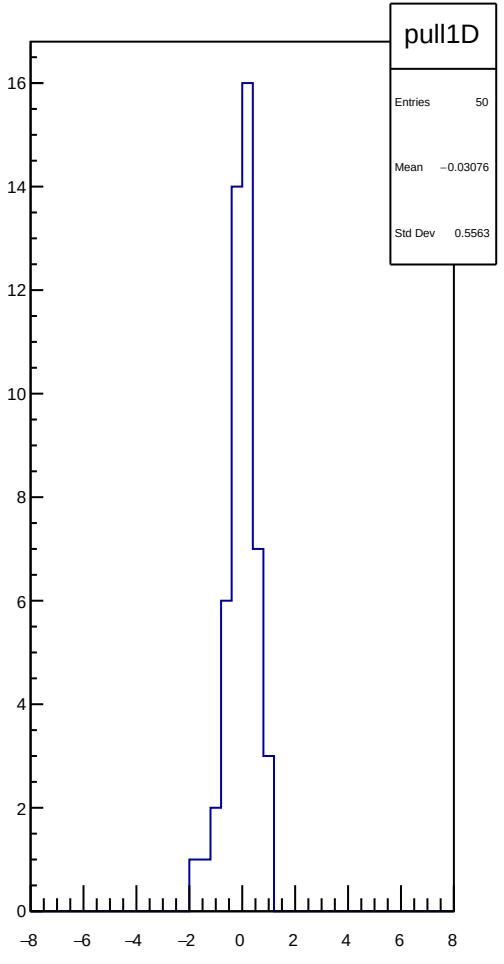

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.449 / 49
p0 10.02 ± 1.987
pull
Entries 50
Mean 45.11
Std Dev 9.673

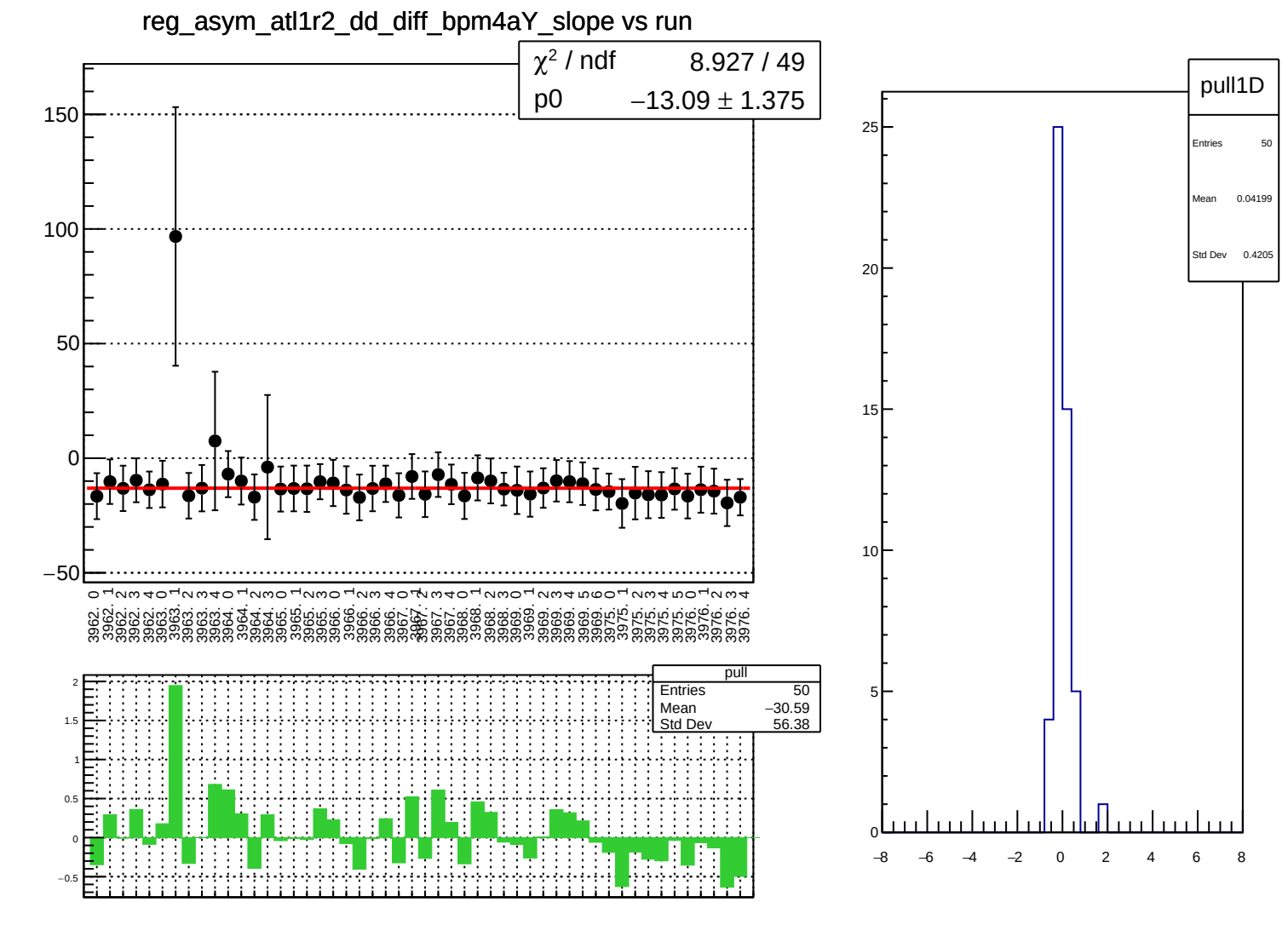

pull1D
Entries 50
Mean −0.01797
Std Dev 0.3856

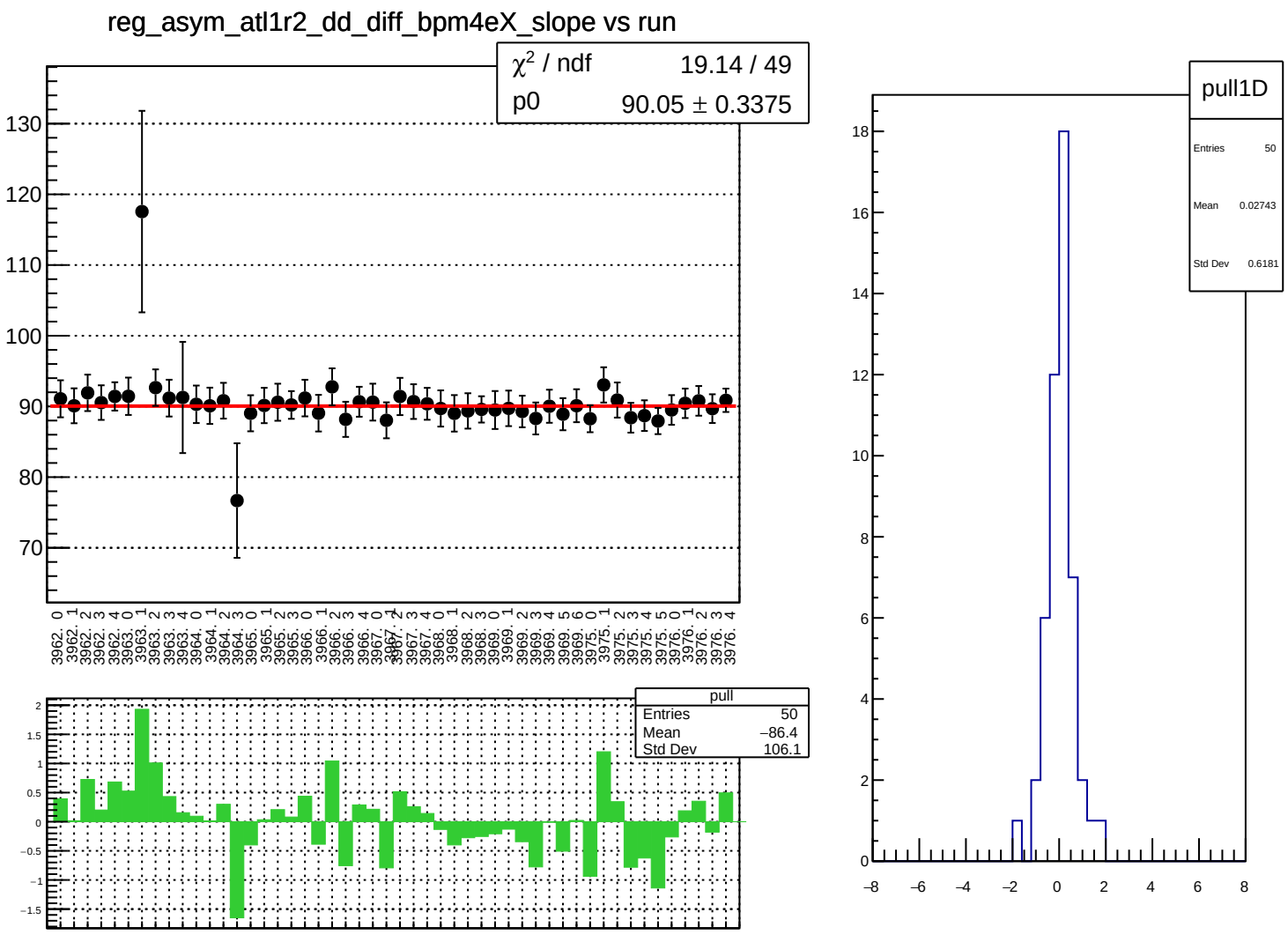

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 138.1 / 49
p0 −186.5 ± 0.3322
pull
Entries 50
Mean −34.96
Std Dev 82.24

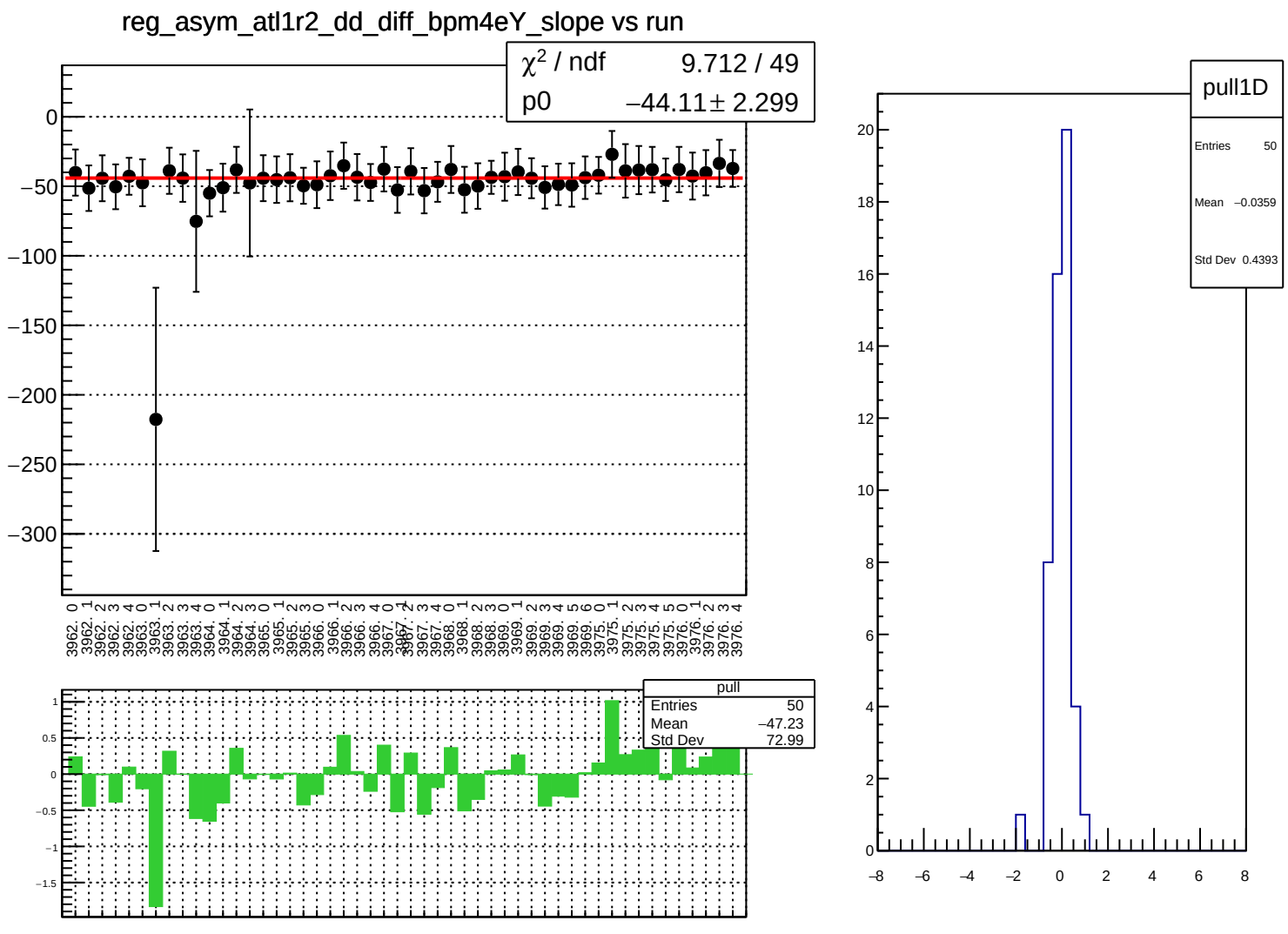

pull1D
Entries 50
Mean −0.03802
Std Dev 1.662

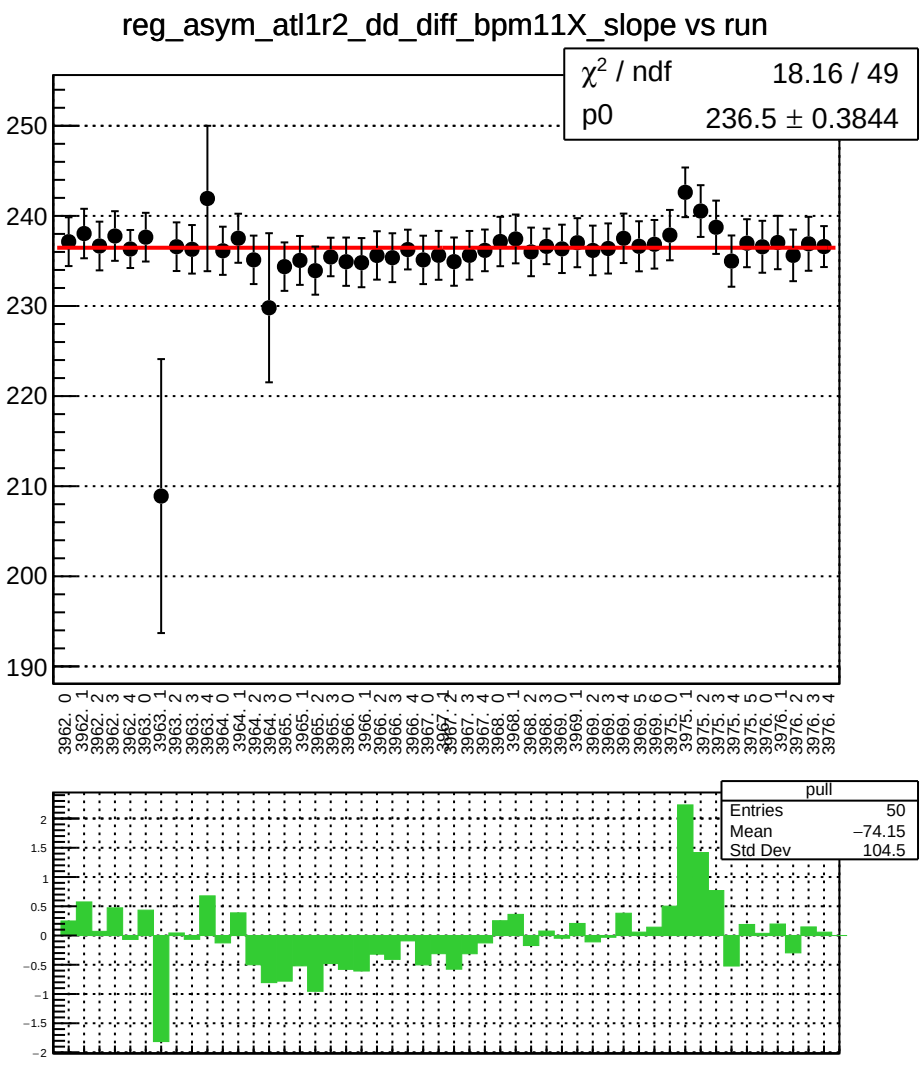

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.52 / 49
p0 43.08 ± 1.966
150
100
50
0
−50
−100
−150
−200
pull
Entries 50
Mean −70.32
Std Dev 93.41
1
0.5
0
−0.5
−1
−1.5
−2

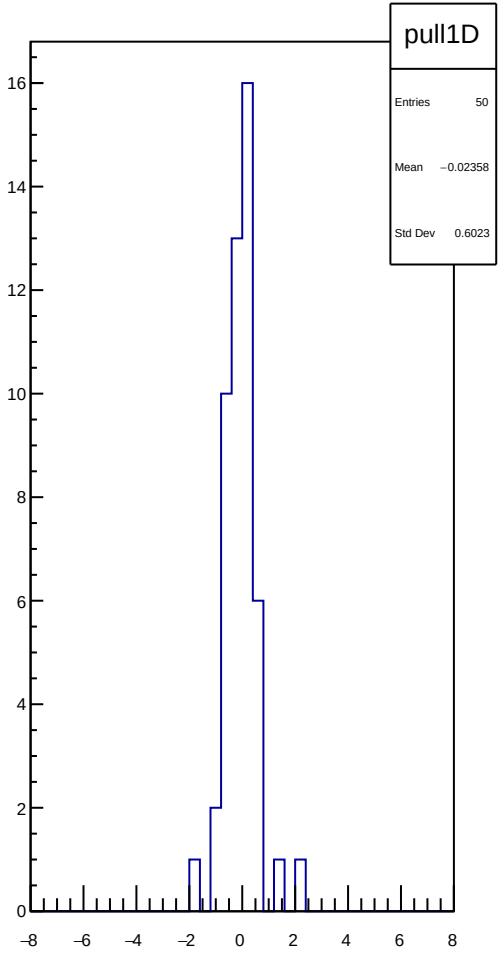

pull1D
Entries 50
Mean −0.03076
Std Dev 0.5563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

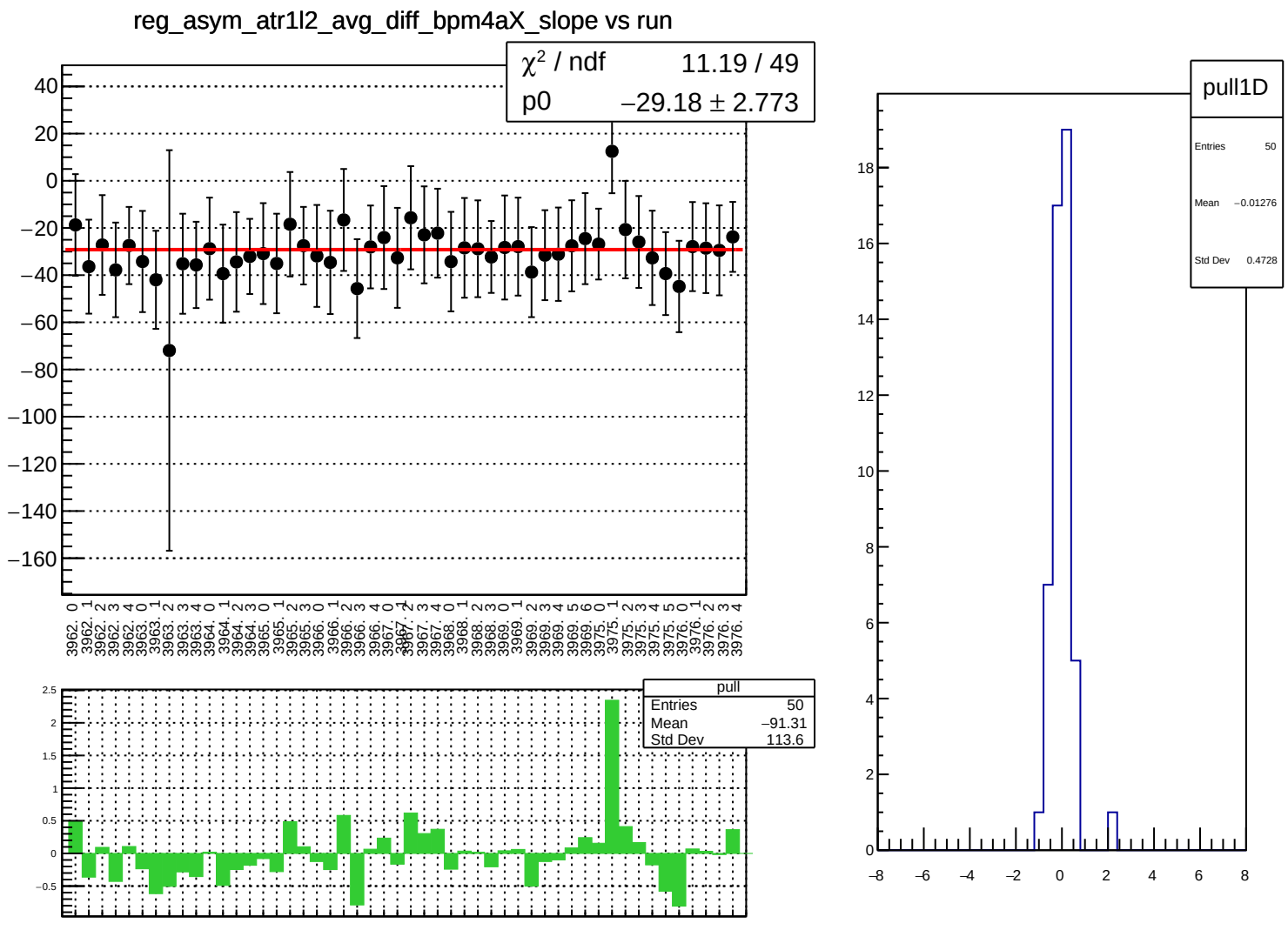

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.927 / 49
p0 −13.09 ± 1.375
150
100
50
0
−50
pull
Entries 50
Mean −30.59
Std Dev 56.38
2
1.5
1
0.5
0
−0.5
pull1D
Entries 50
Mean 0.04199
Std Dev 0.4205
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

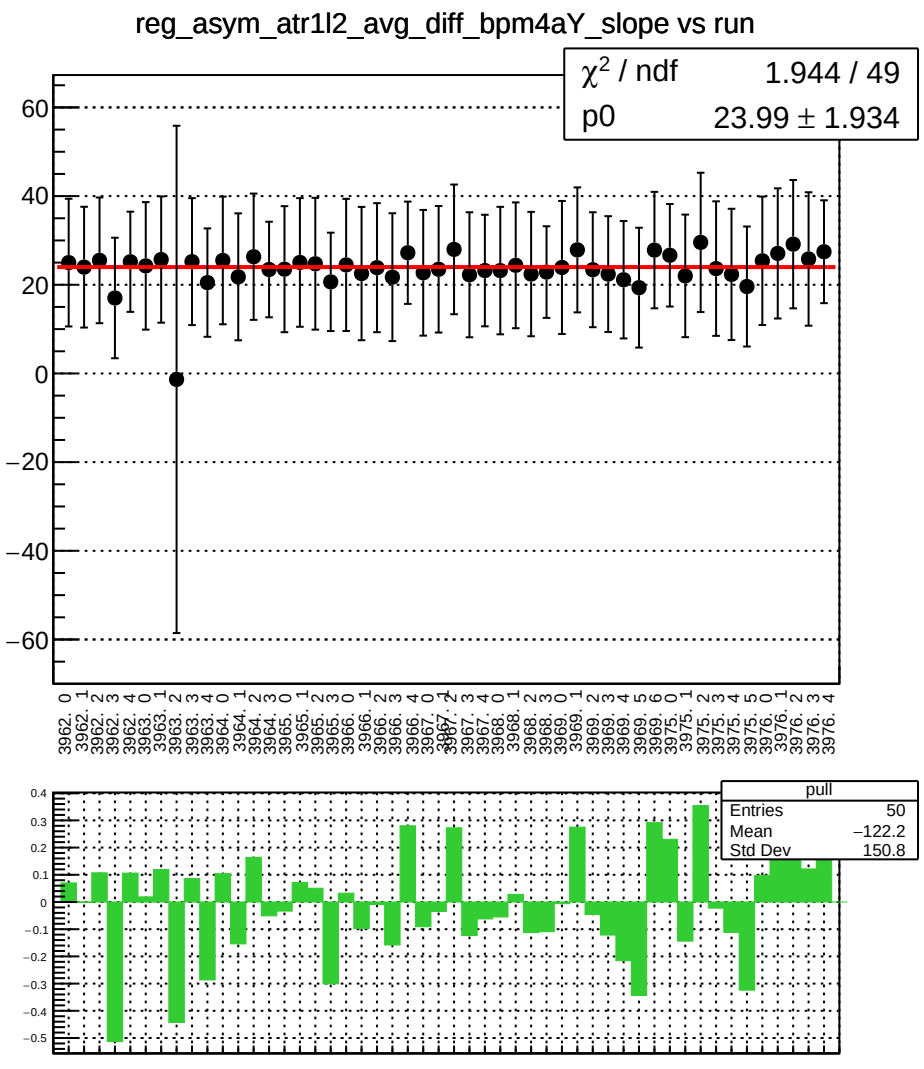

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.14 / 49
p0 90.05 ± 0.3375
pull
Entries 50
Mean −86.4
Std Dev 106.1
pull1D
Entries 50
Mean 0.02743
Std Dev 0.6181

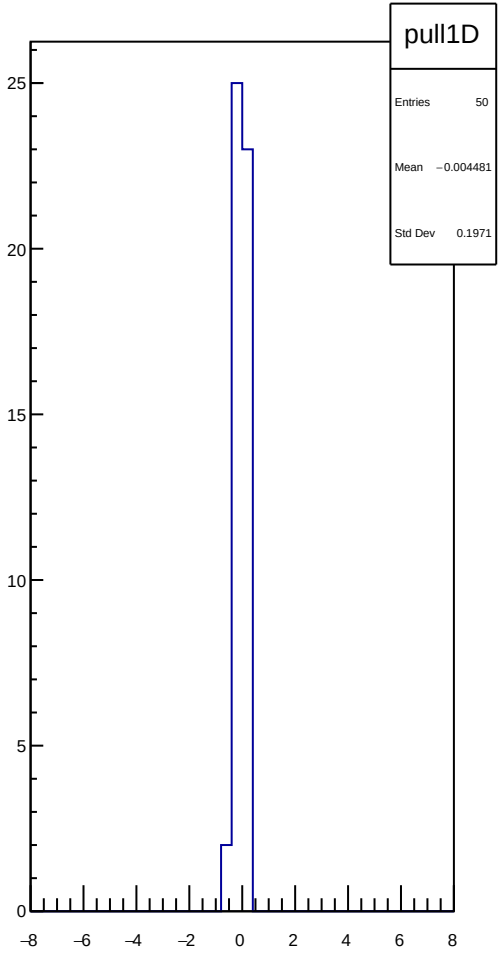

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.712 / 49
p0 −44.11± 2.299
pull
Entries 50
Mean −47.23
Std Dev 72.99
pull1D
Entries 50
Mean −0.0359
Std Dev 0.4393

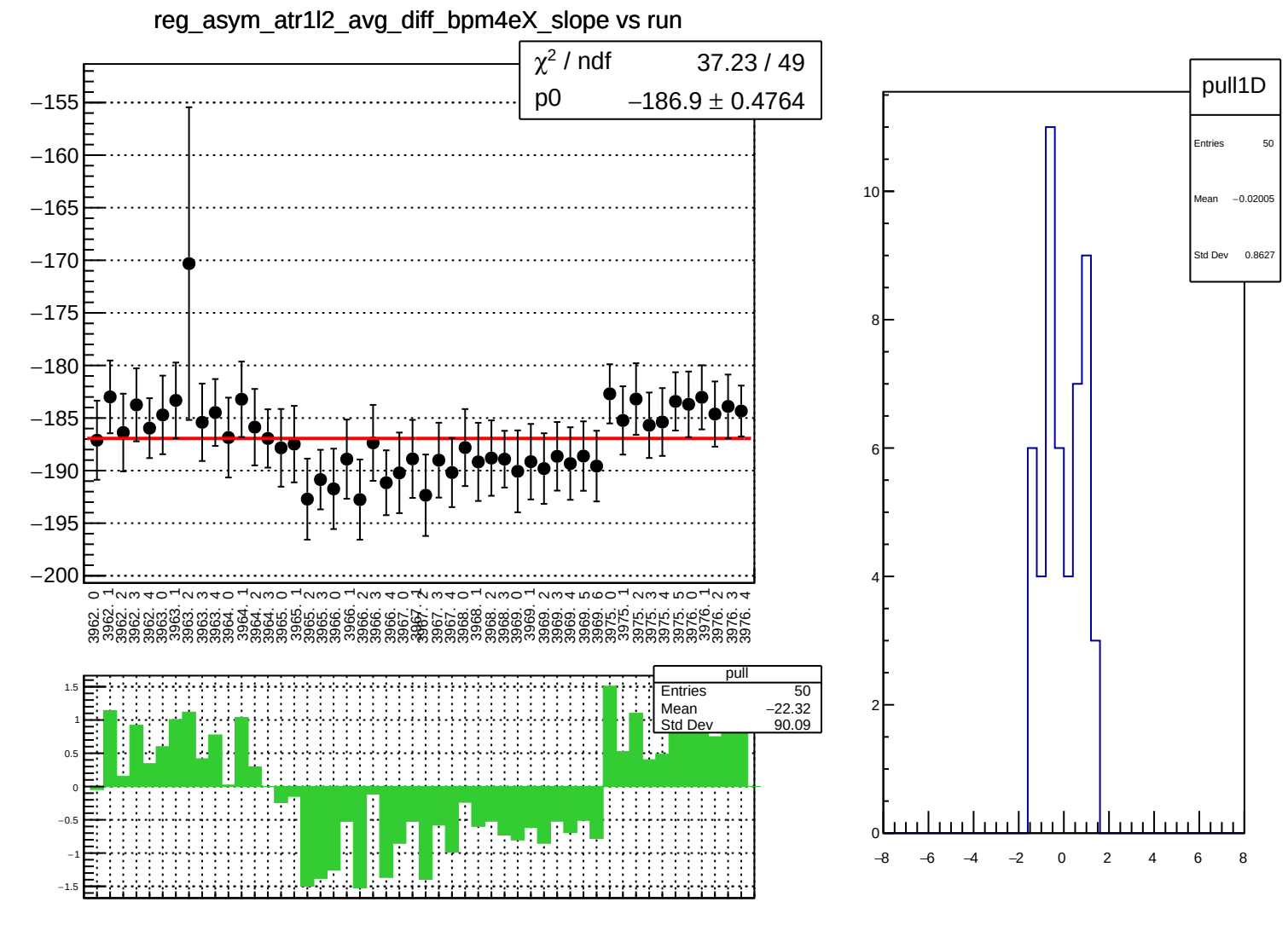

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 18.16 / 49
p0 236.5 ± 0.3844
250
240
230
220
210
200
190
pull
Entries 50
Mean −74.15
Std Dev 104.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

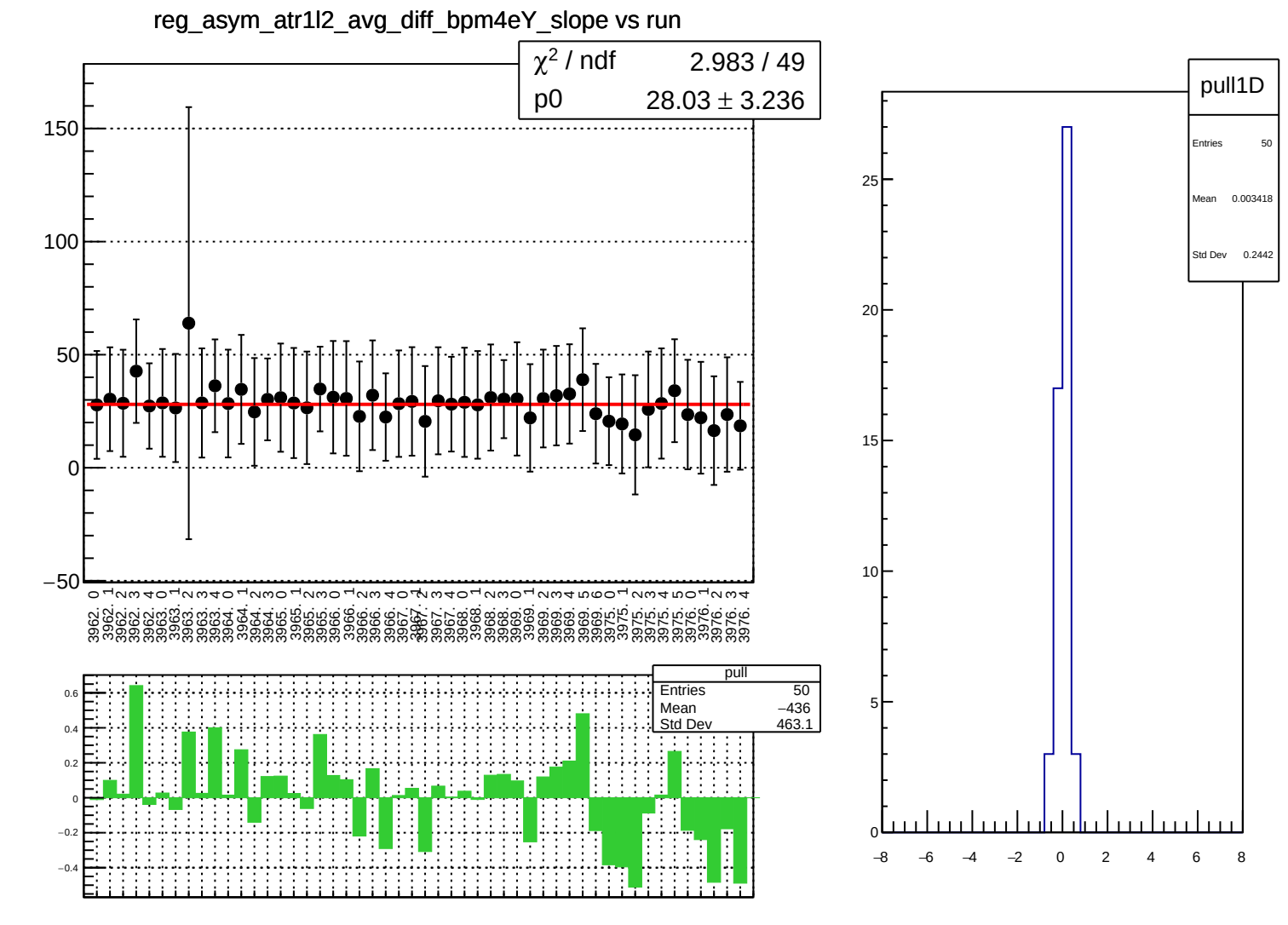

pull1D
Entries 50
Mean −0.02358
Std Dev 0.6023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

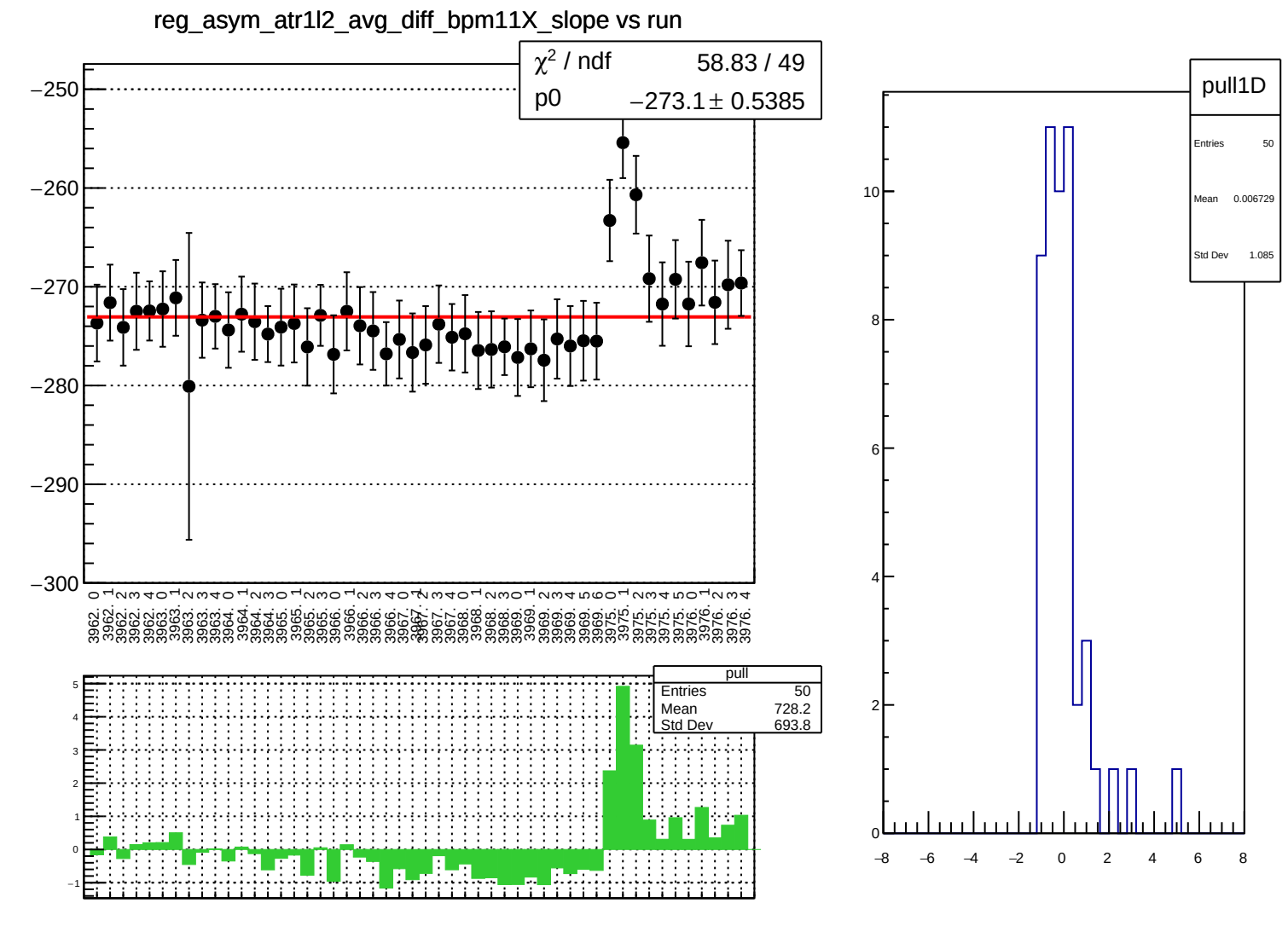

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.19 / 49
p0 −29.18 ± 2.773
pull
Entries 50
Mean −91.31
Std Dev 113.6
pull1D
Entries 50
Mean −0.01276
Std Dev 0.4728

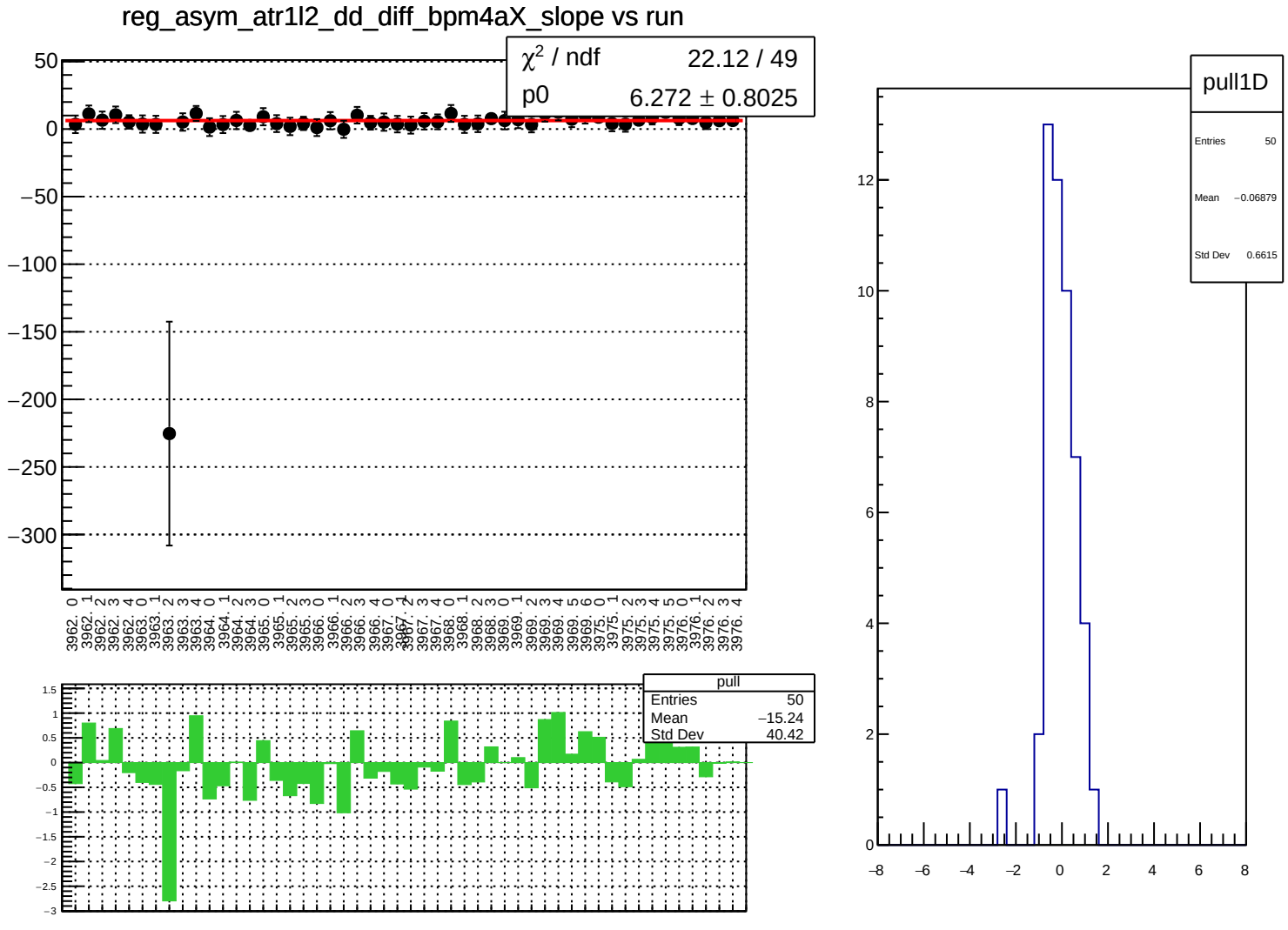

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.944 / 49
p0 23.99 ± 1.934
pull
Entries 50
Mean −122.2
Std Dev 150.8

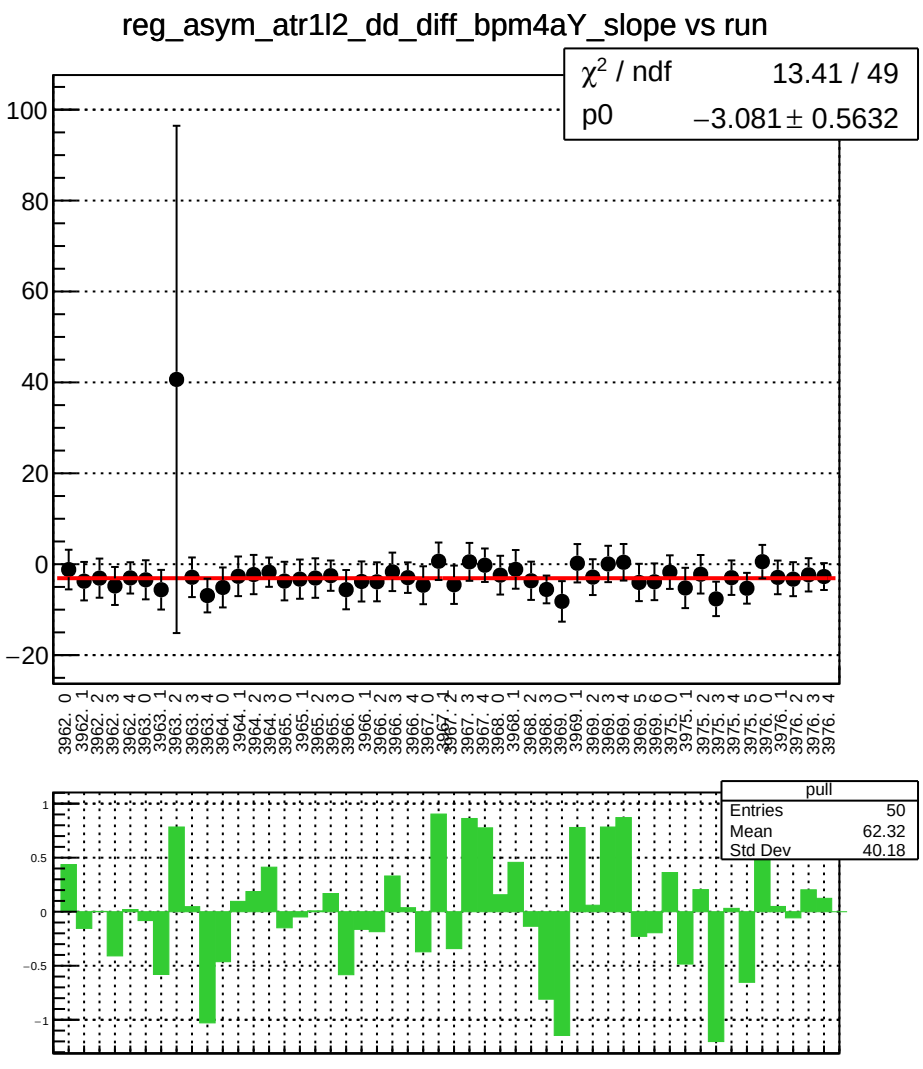

pull1D
Entries 50
Mean −0.004481
Std Dev 0.1971

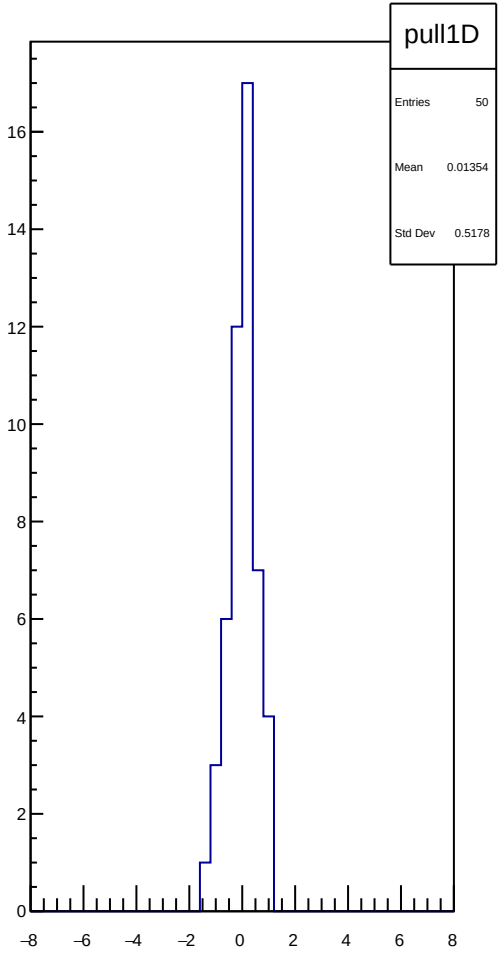

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.23 / 49
p0 −186.9 ± 0.4764
pull
Entries 50
Mean −22.32
Std Dev 90.09
pull1D
Entries 50
Mean −0.02005
Std Dev 0.8627

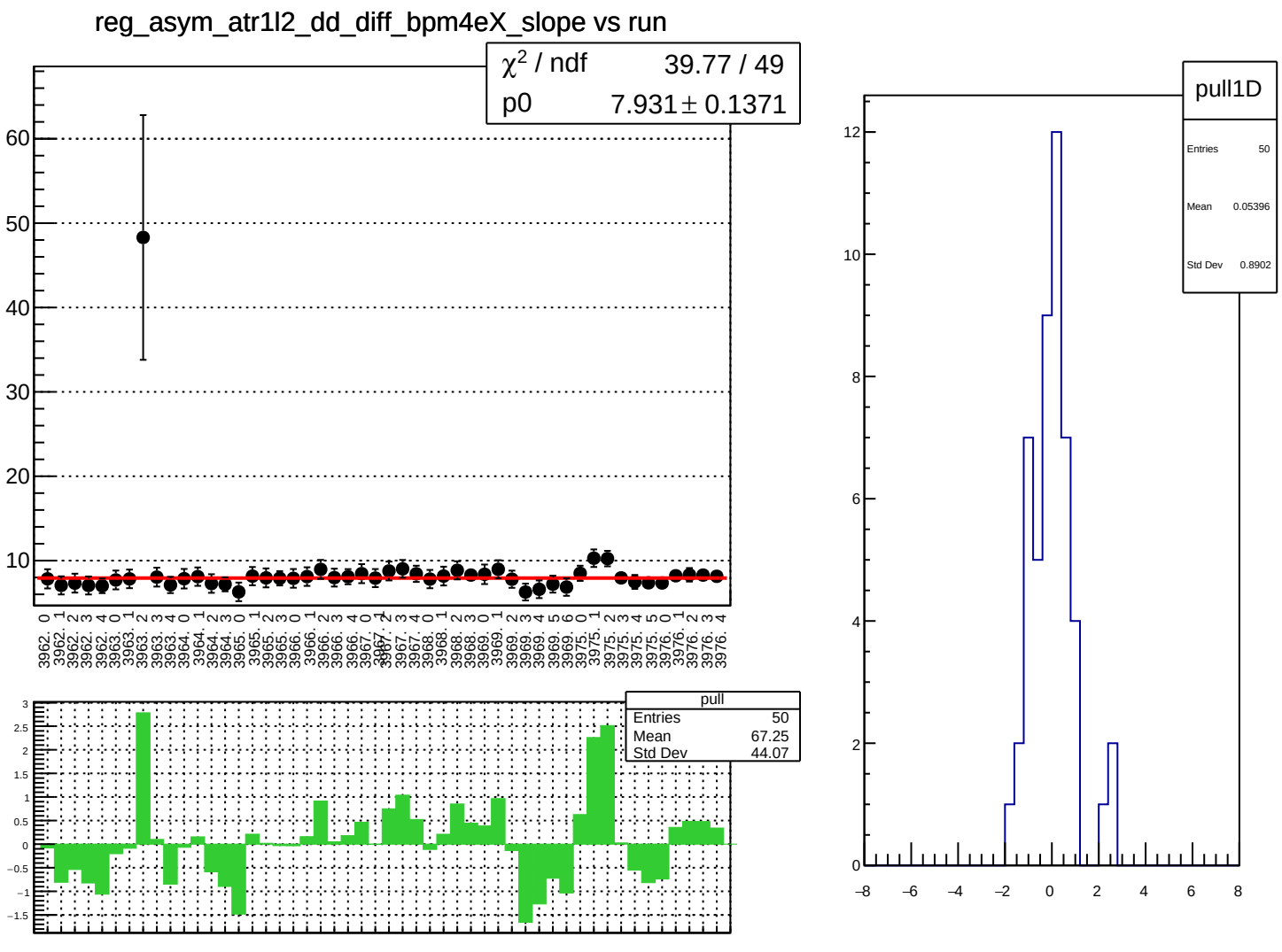

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.983 / 49
p0 28.03 ± 3.236
150
100
50
0
−50
pull
Entries 50
Mean −436
Std Dev 463.1
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 50
Mean 0.003418
Std Dev 0.2442
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

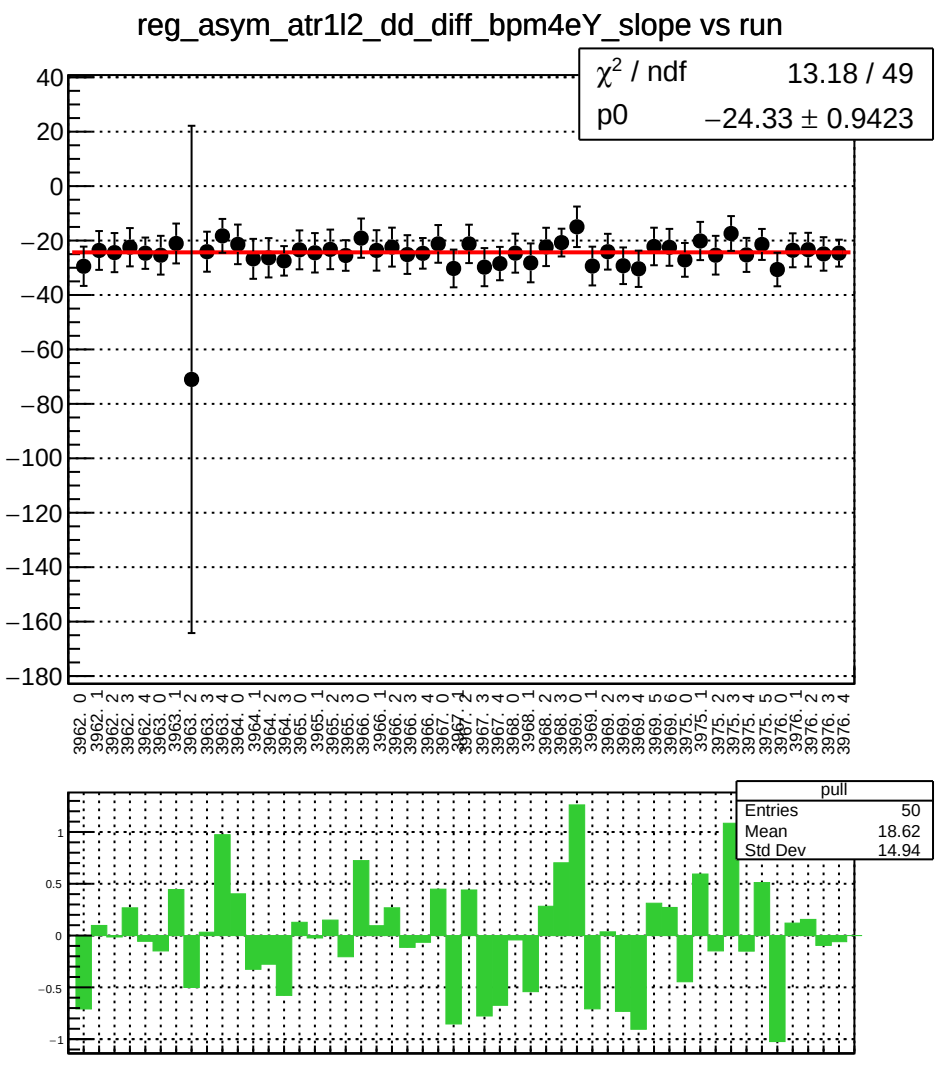

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 58.83 / 49
p0 −273.1 ± 0.5385
pull
Entries 50
Mean 728.2
Std Dev 693.8
pull1D
Entries 50
Mean 0.006729
Std Dev 1.085

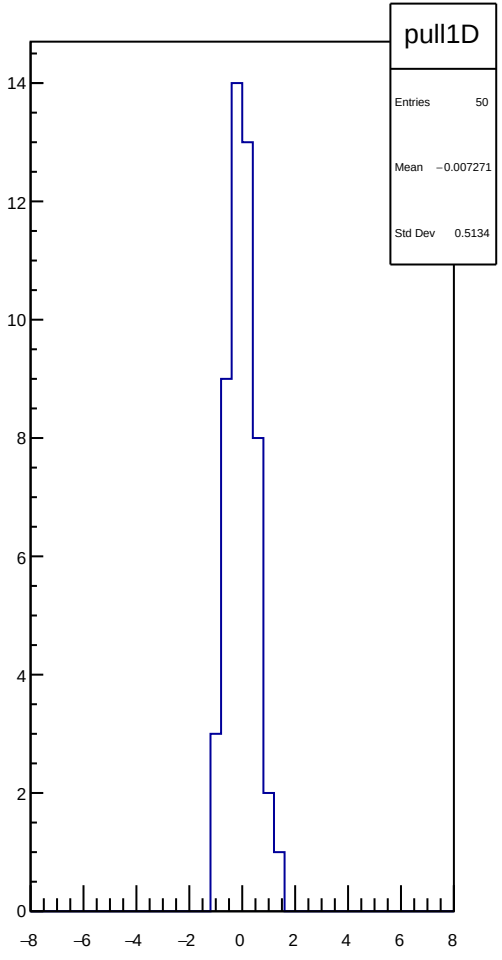

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.12 / 49
p0 6.272 ± 0.8025
pull
Entries 50
Mean −15.24
Std Dev 40.42
pull1D
Entries 50
Mean −0.06879
Std Dev 0.6615

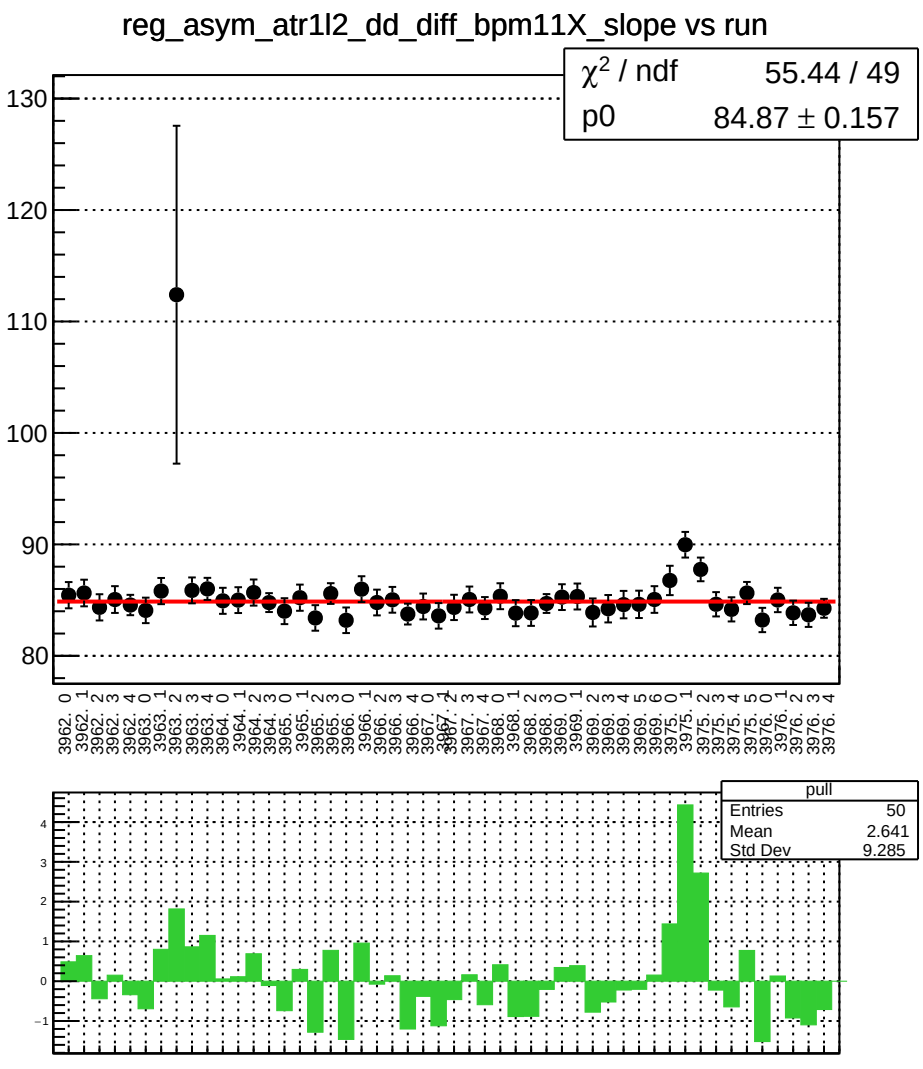

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.41 / 49
p0 −3.081 ± 0.5632
pull
Entries 50
Mean 62.32
Std Dev 40.18

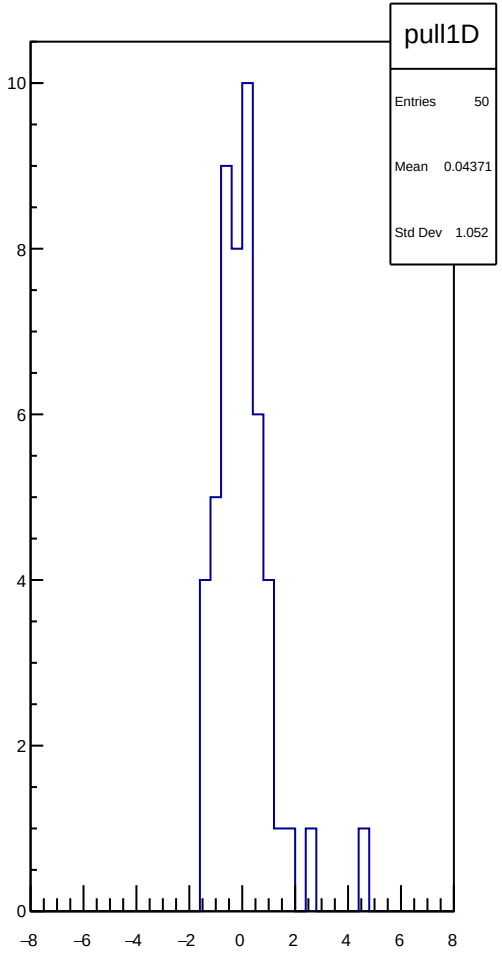

pull1D
Entries 50
Mean 0.01354
Std Dev 0.5178

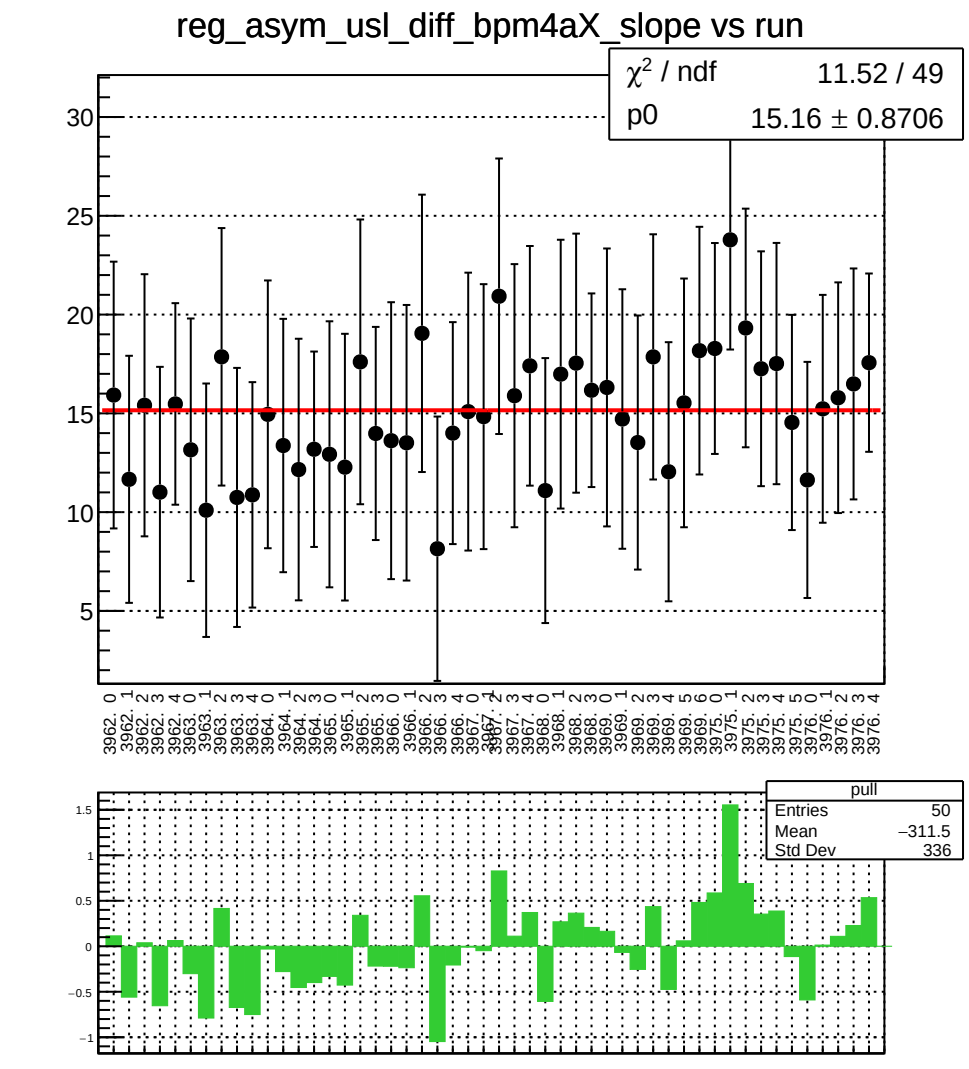

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.77 / 49
p0 7.931 ± 0.1371
pull
Entries 50
Mean 67.25
Std Dev 44.07
pull1D
Entries 50
Mean 0.05396
Std Dev 0.8902

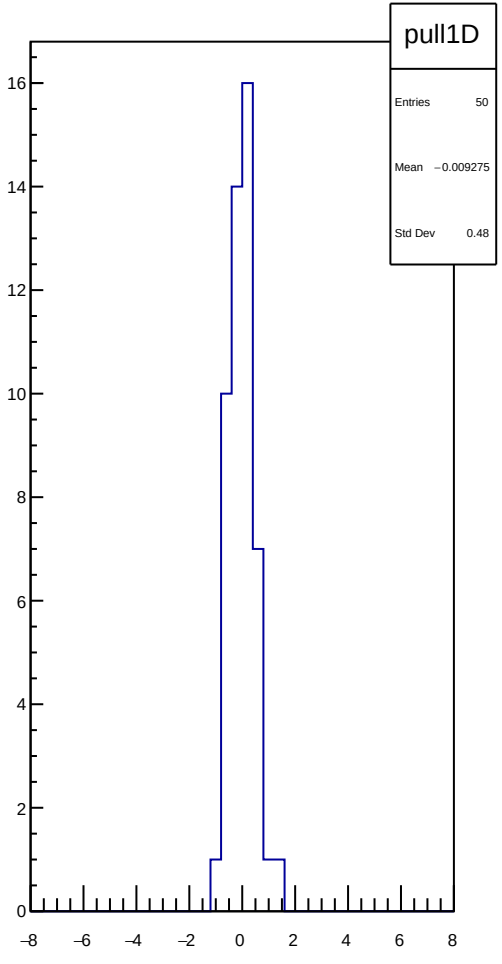

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.18 / 49
p0 −24.33 ± 0.9423
pull
Entries 50
Mean 18.62
Std Dev 14.94

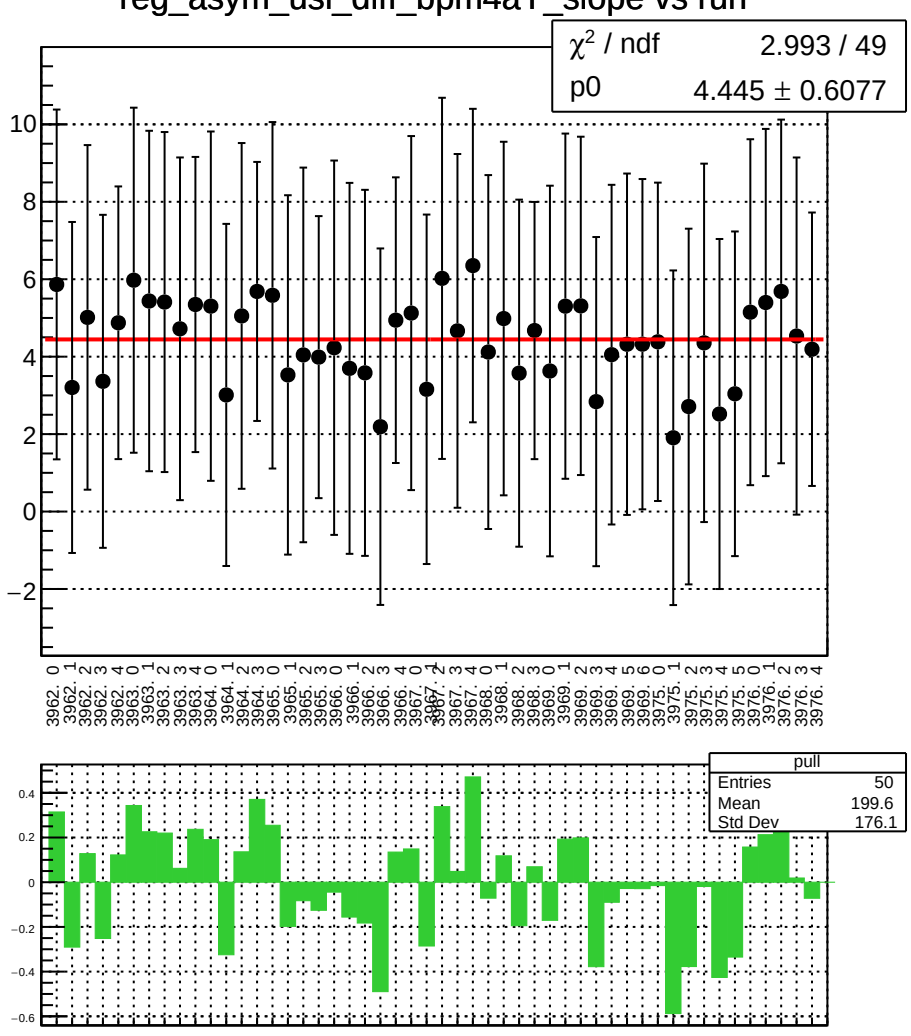

pull1D
Entries 50
Mean −0.007271
Std Dev 0.5134

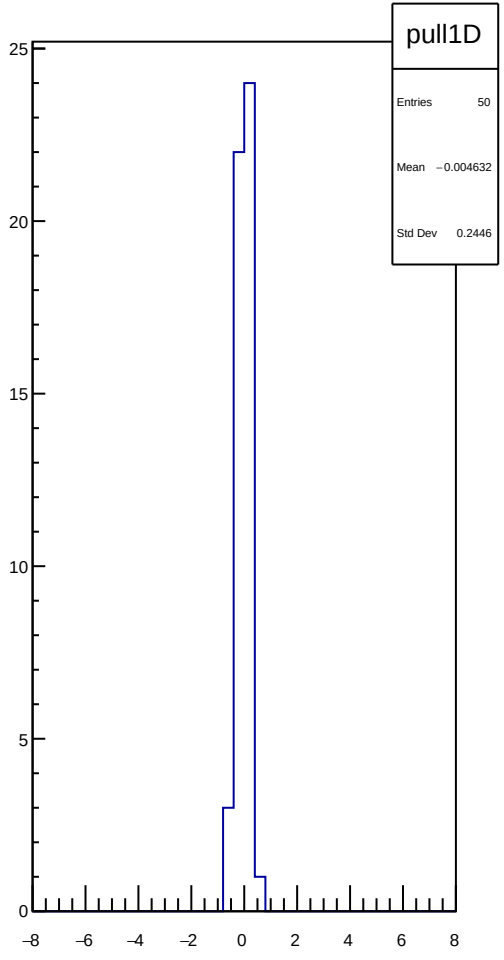

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 55.44 / 49
p0 84.87 ± 0.157
pull
Entries 50
Mean 2.641
Std Dev 9.285

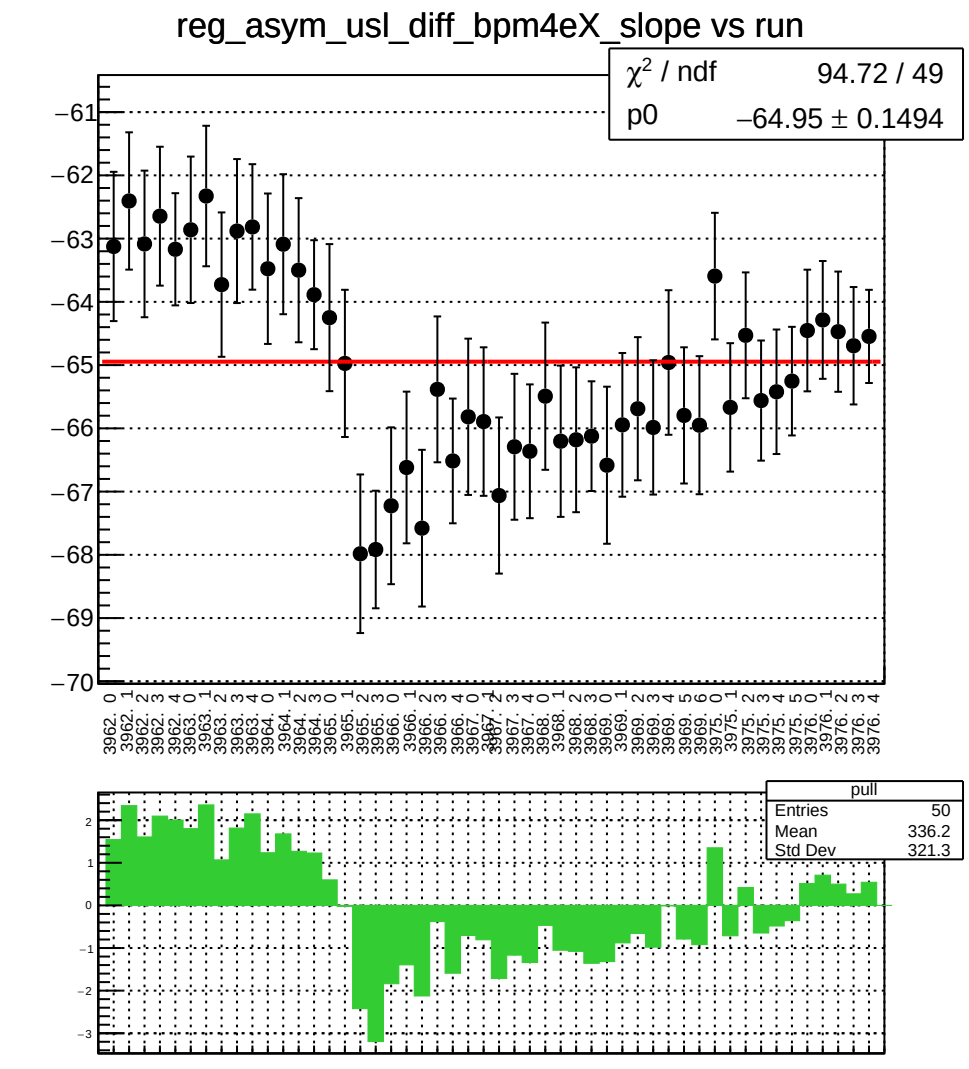

pull1D
Entries 50
Mean 0.04371
Std Dev 1.052

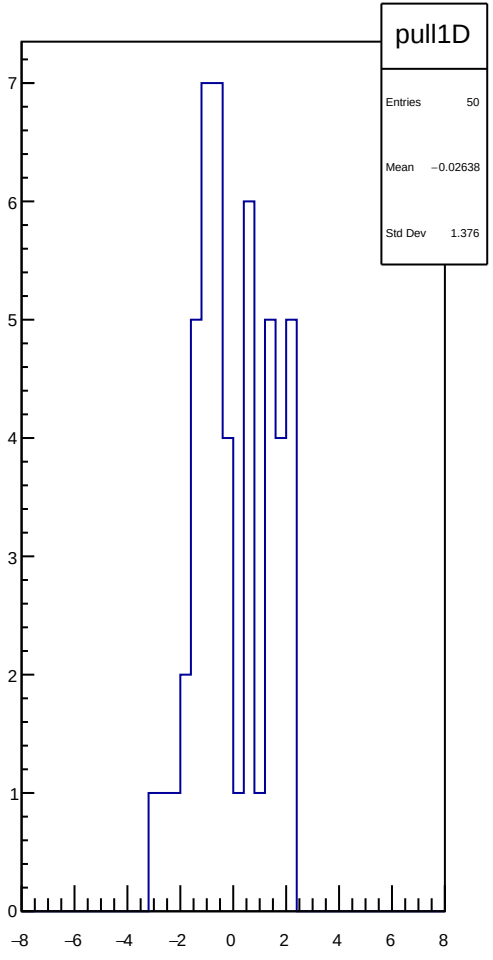

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 11.52 / 49
p0 15.16 ± 0.8706
pull
Entries 50
Mean −311.5
Std Dev 336

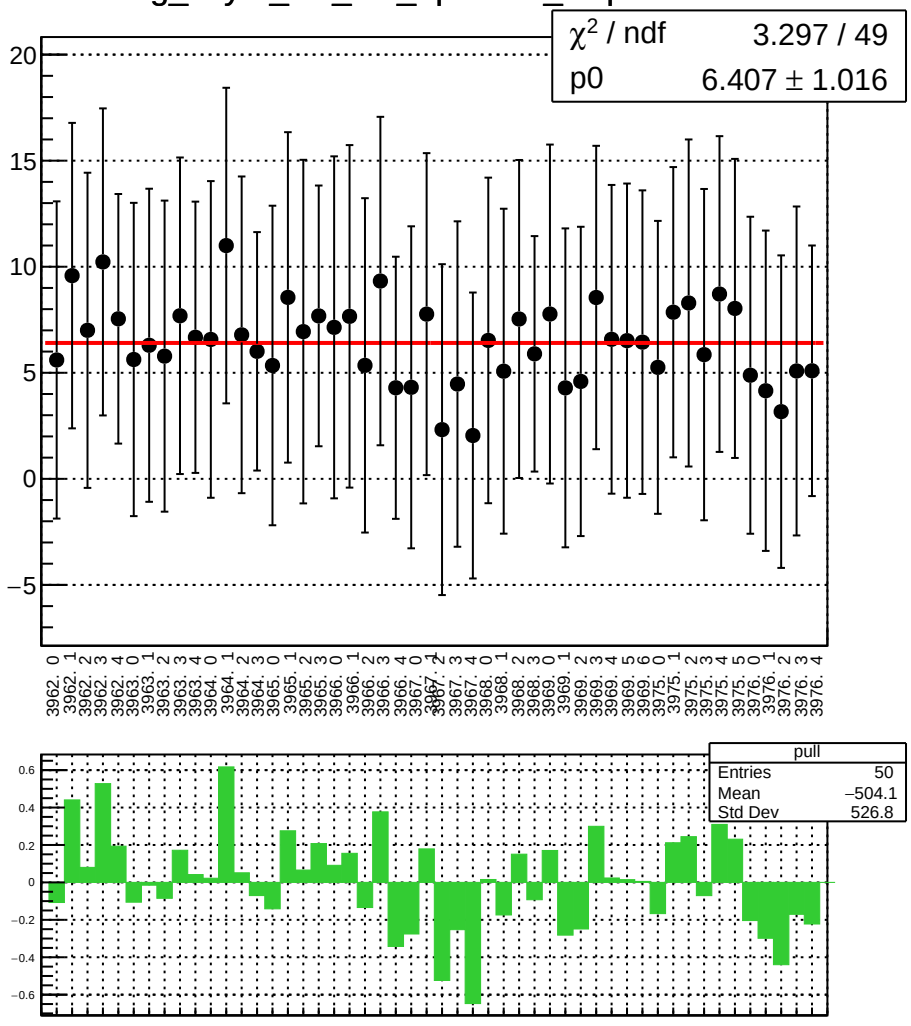

pull1D
Entries 50
Mean −0.009275
Std Dev 0.48

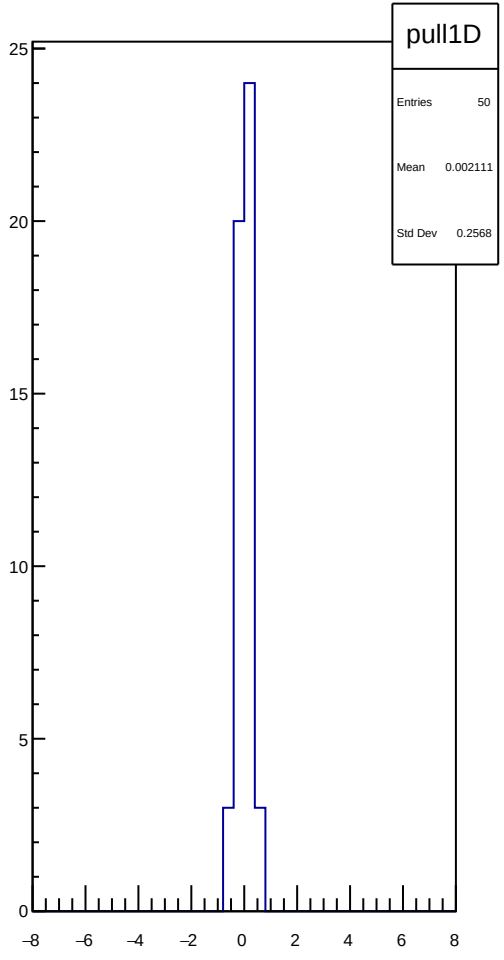

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 2.993 / 49
p0 4.445 ± 0.6077
pull
Entries 50
Mean 199.6
Std Dev 176.1

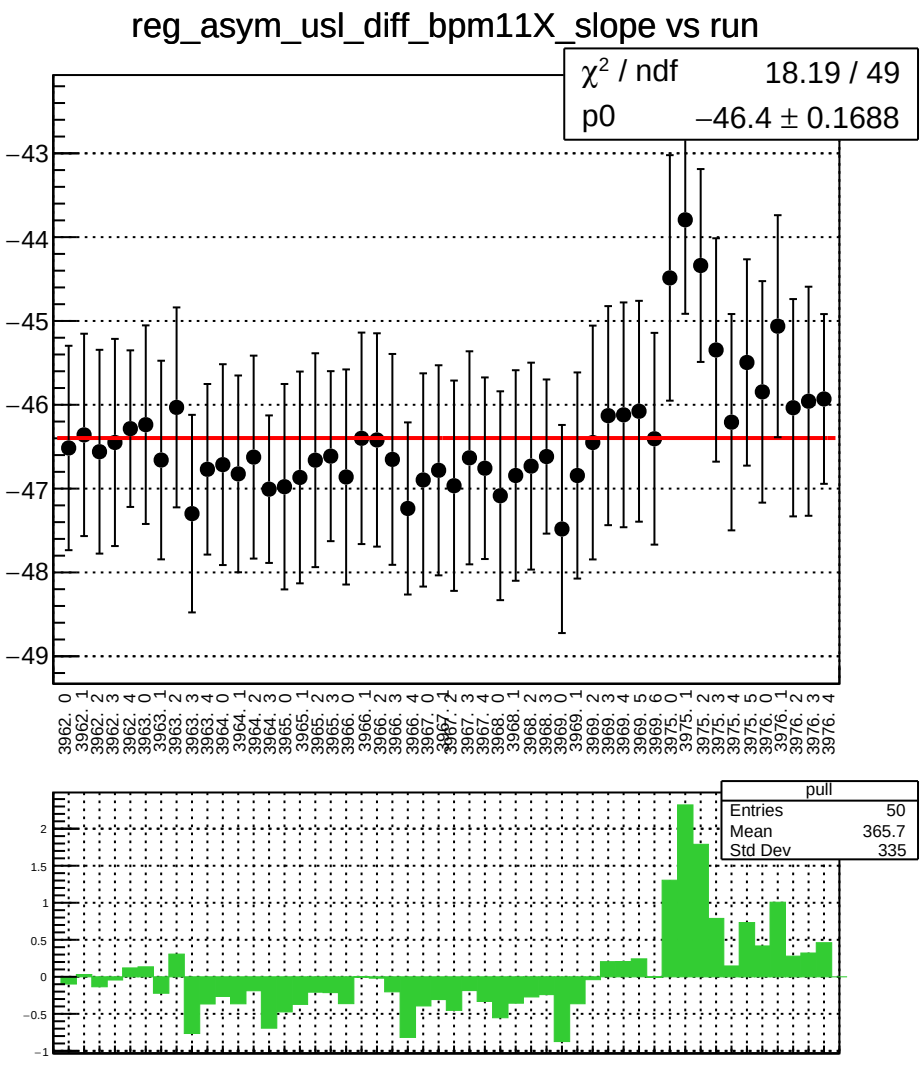

pull1D
Entries 50
Mean −0.004632
Std Dev 0.2446

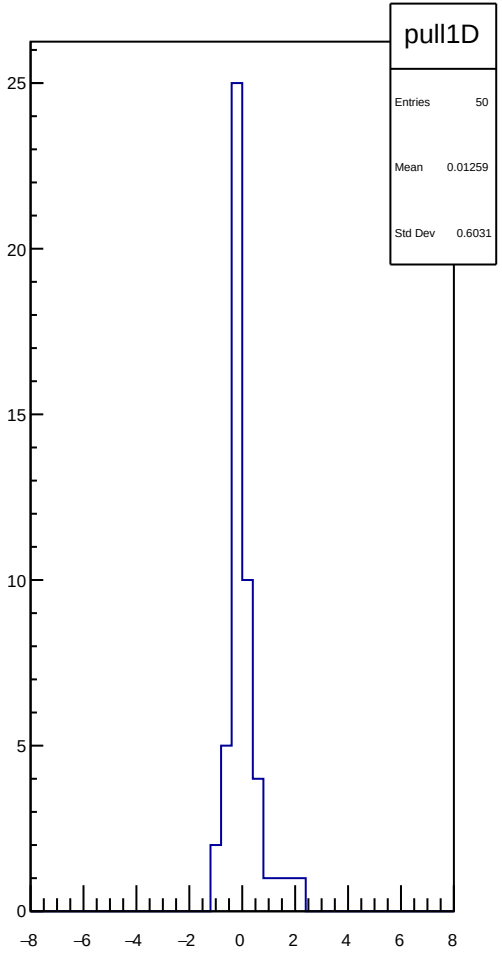

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 94.72 / 49
p0 −64.95 ± 0.1494
pull
Entries 50
Mean 336.2
Std Dev 321.3

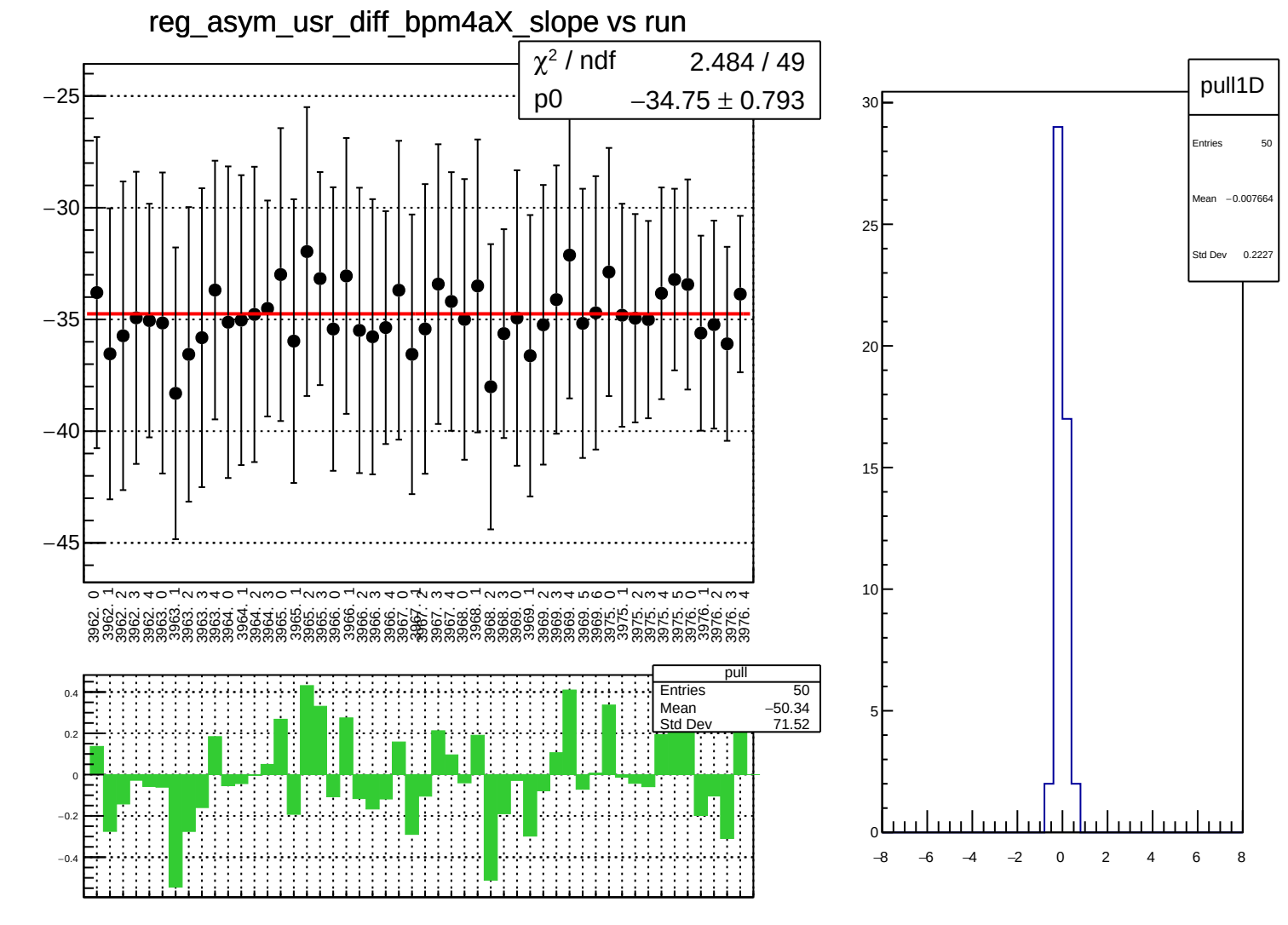

pull1D
Entries 50
Mean −0.02638
Std Dev 1.376

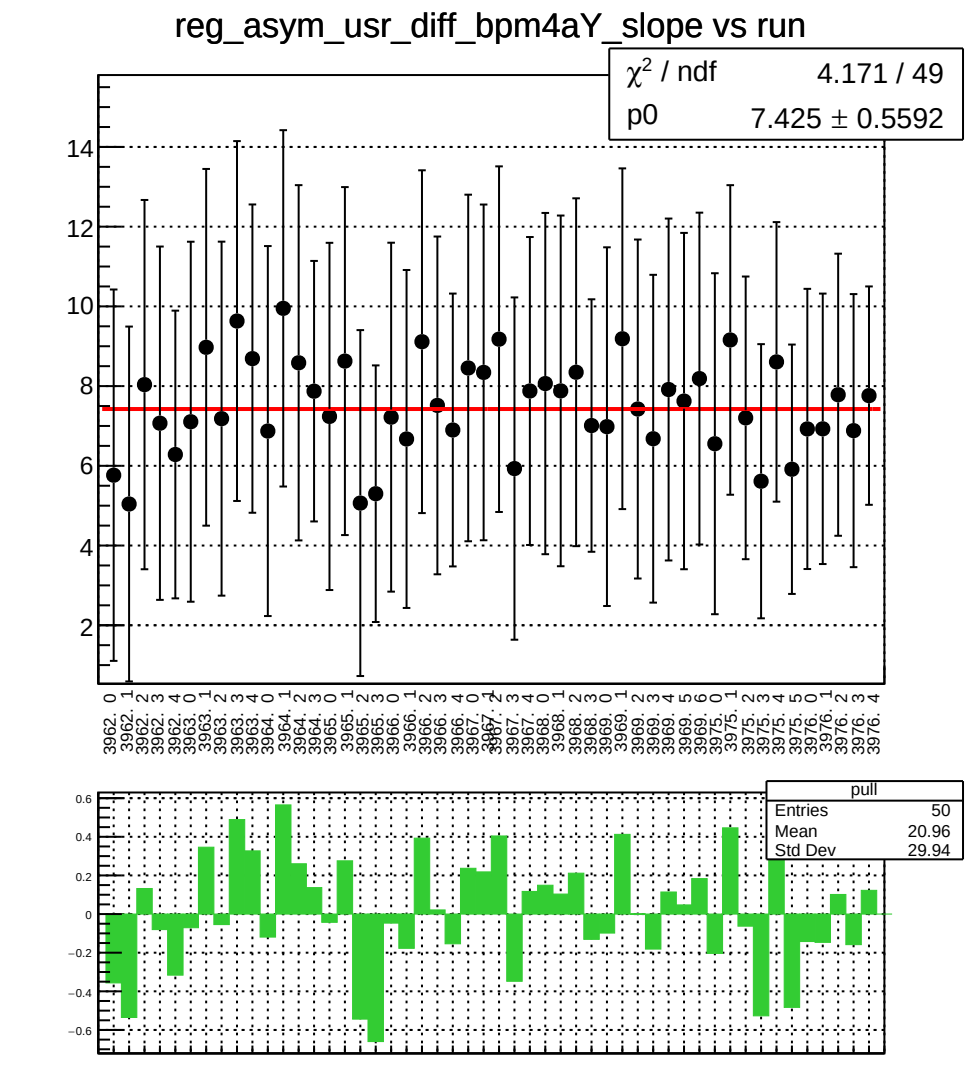

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.297 / 49
p0 6.407 ± 1.016
pull
Entries 50
Mean −504.1
Std Dev 526.8

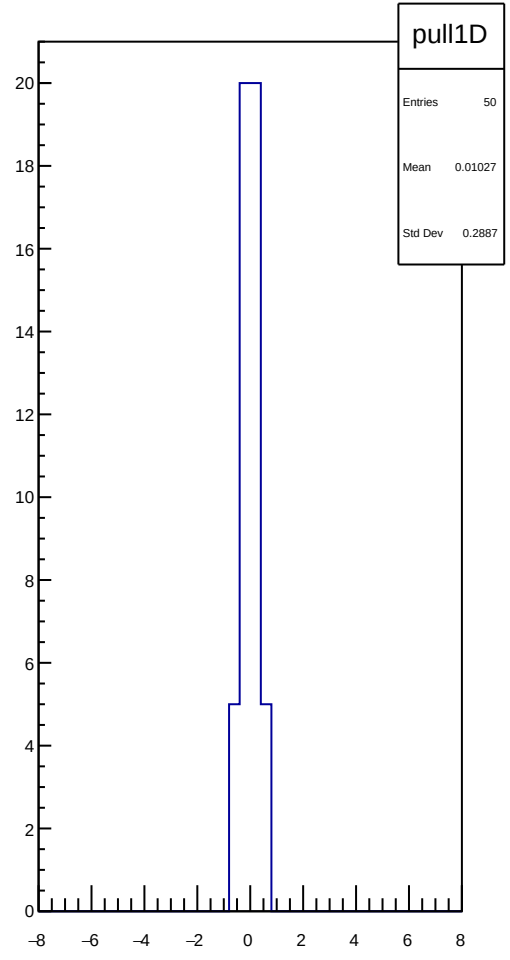

pull1D
Entries 50
Mean 0.002111
Std Dev 0.2568

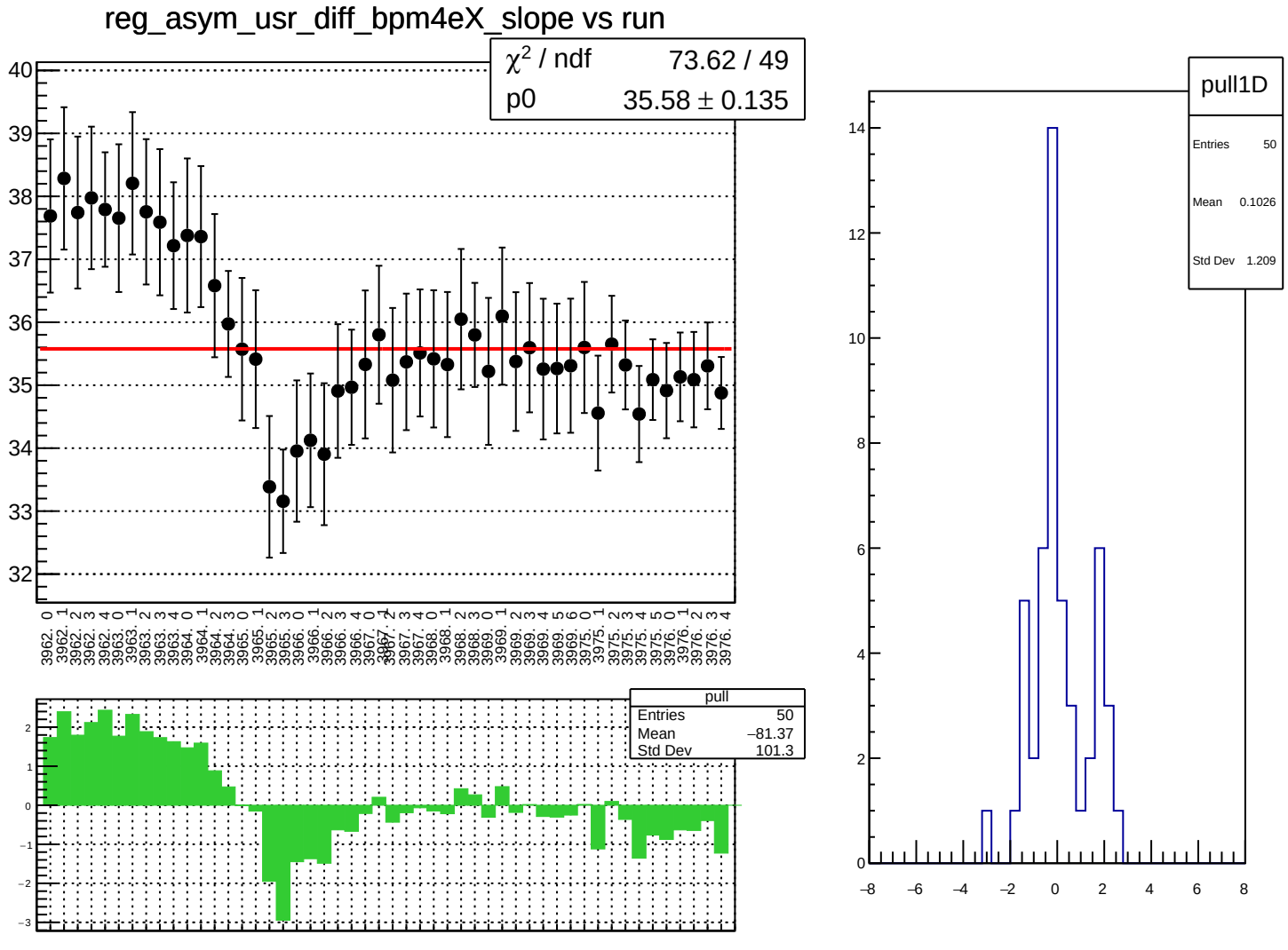

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 18.19 / 49
p0 −46.4 ± 0.1688
pull
Entries 50
Mean 365.7
Std Dev 335

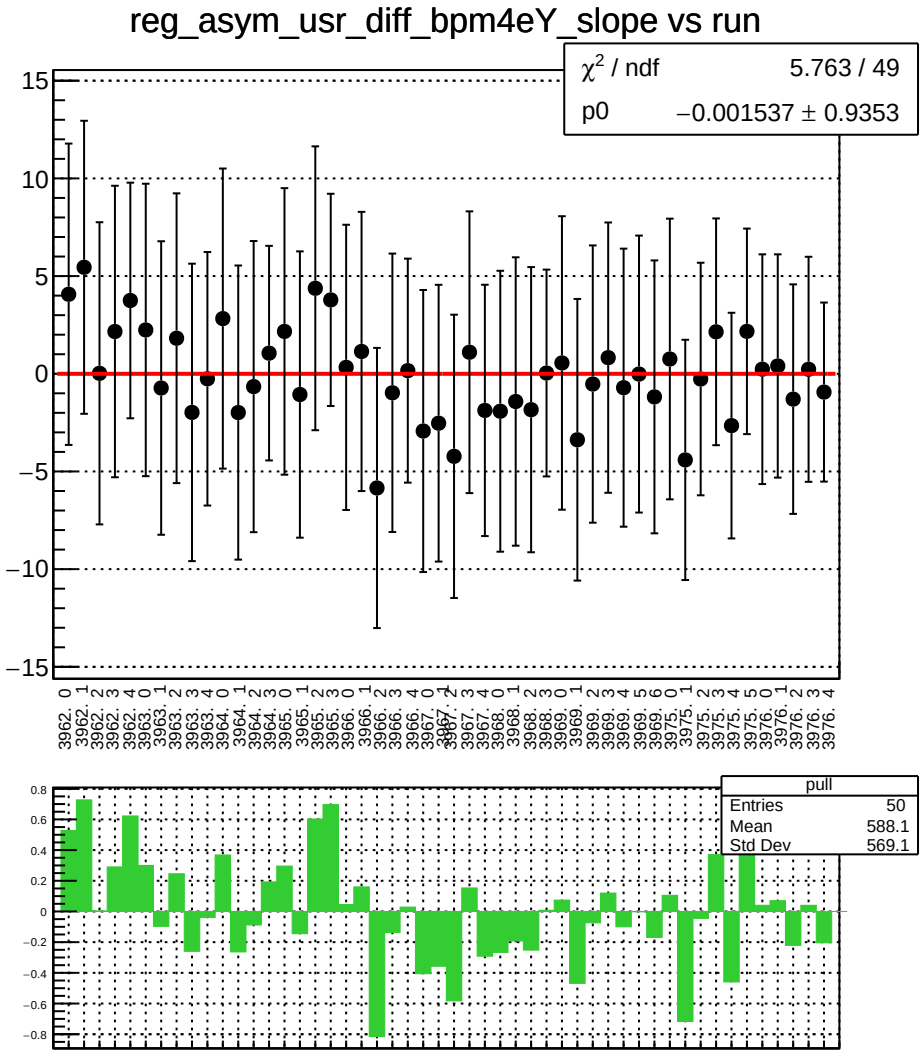

pull1D
Entries 50
Mean 0.01259
Std Dev 0.6031

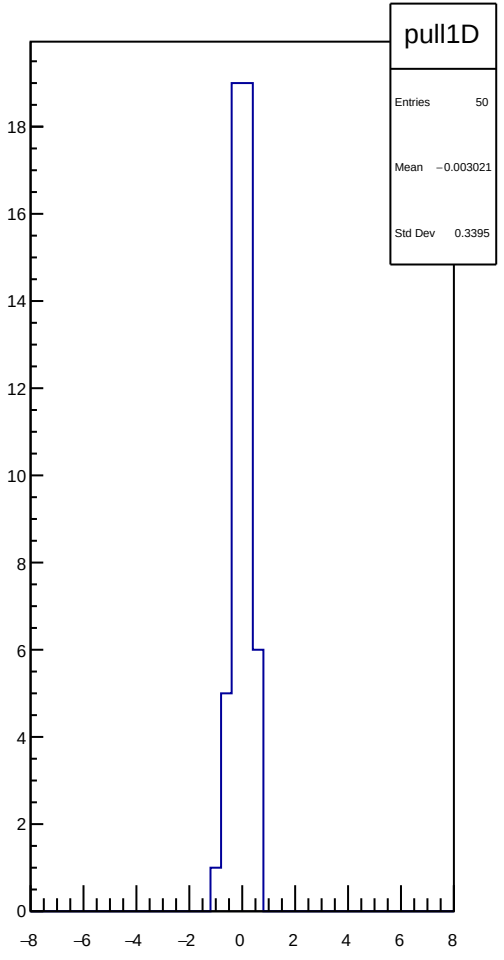

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 2.484 / 49
p0 −34.75 ± 0.793
−25
−30
−35
−40
−45
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −50.34
Std Dev 71.52
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 50
Mean −0.007664
Std Dev 0.2227
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

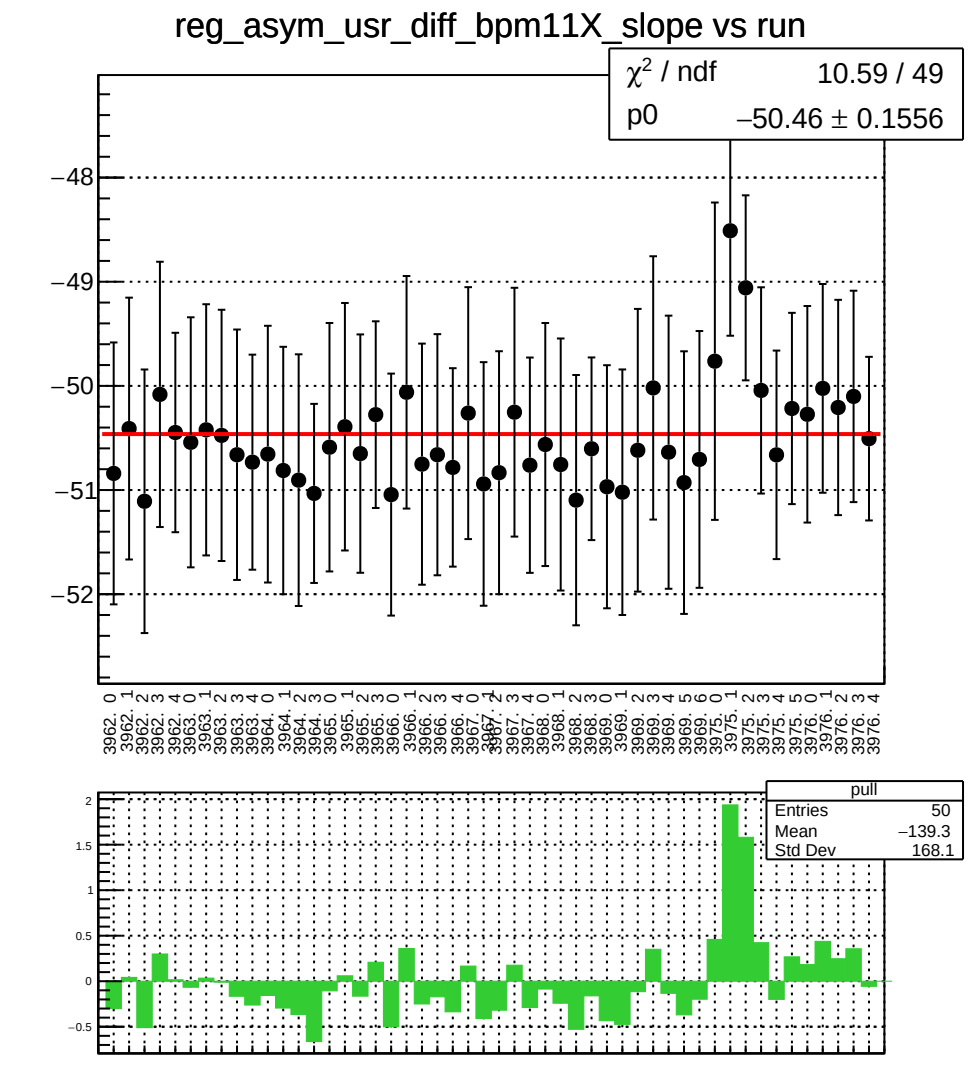

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 4.171 / 49
p0 7.425 ± 0.5592
pull
Entries 50
Mean 20.96
Std Dev 29.94

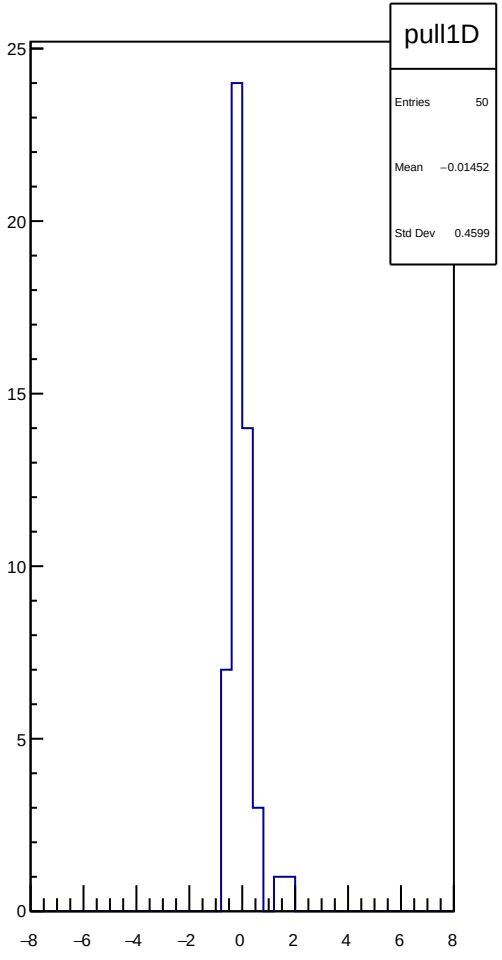

pull1D
Entries 50
Mean 0.01027
Std Dev 0.2887

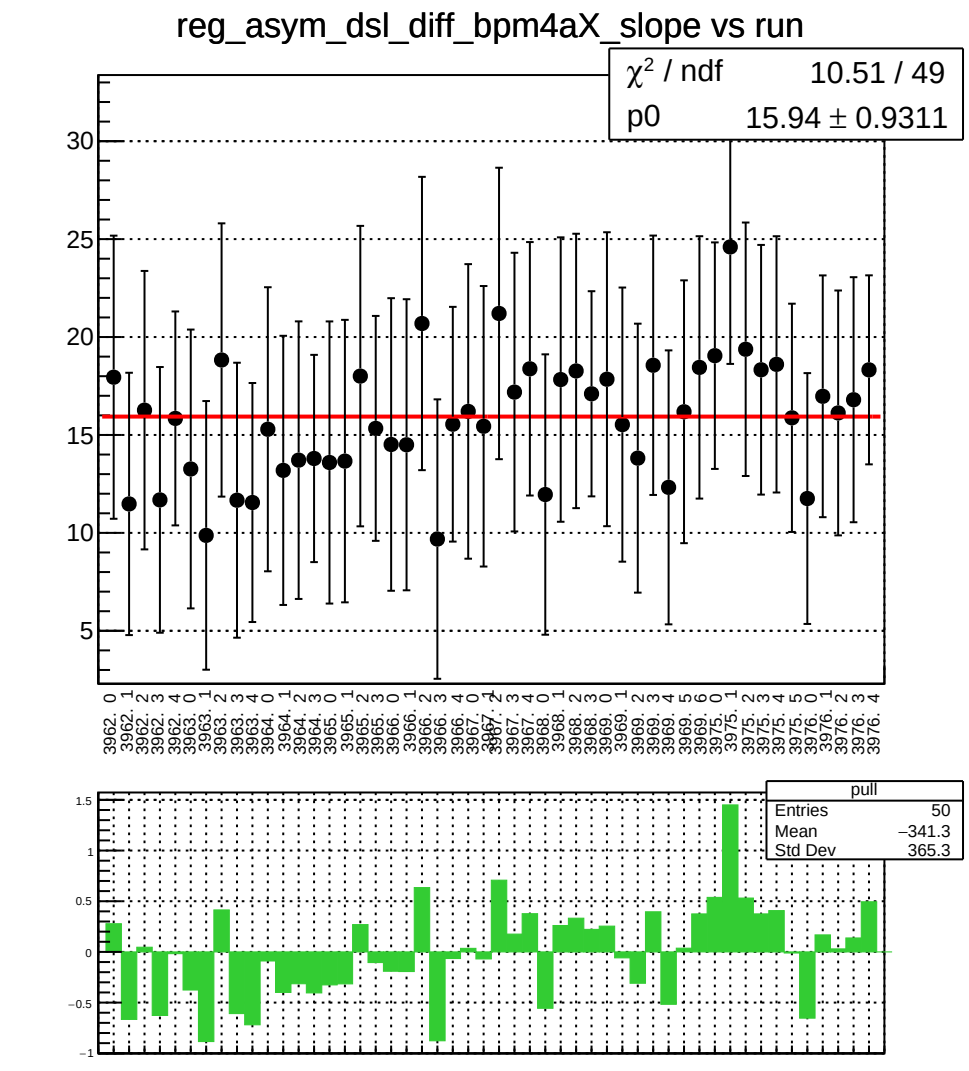

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 73.62 / 49
p0 35.58 ± 0.135
pull
Entries 50
Mean −81.37
Std Dev 101.3
pull1D
Entries 50
Mean 0.1026
Std Dev 1.209

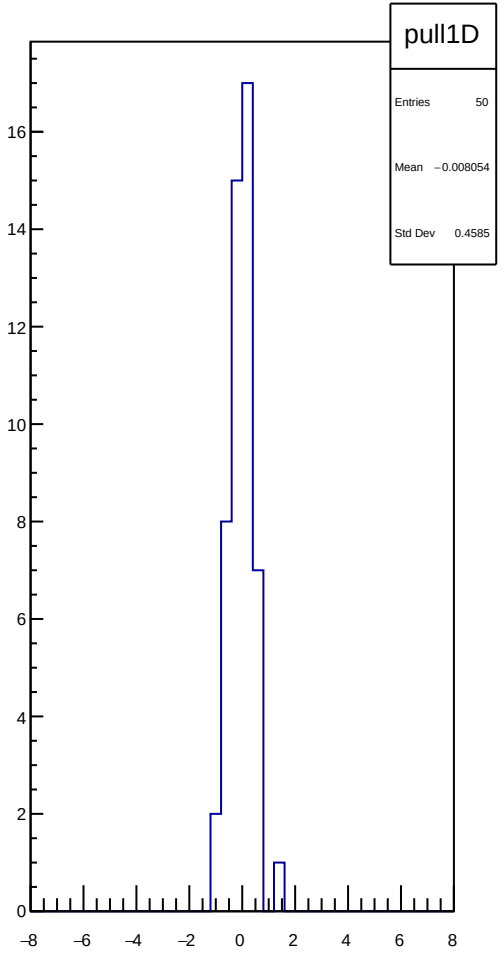

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 5.763 / 49
p0 −0.001537 ± 0.9353
pull
Entries 50
Mean 588.1
Std Dev 569.1

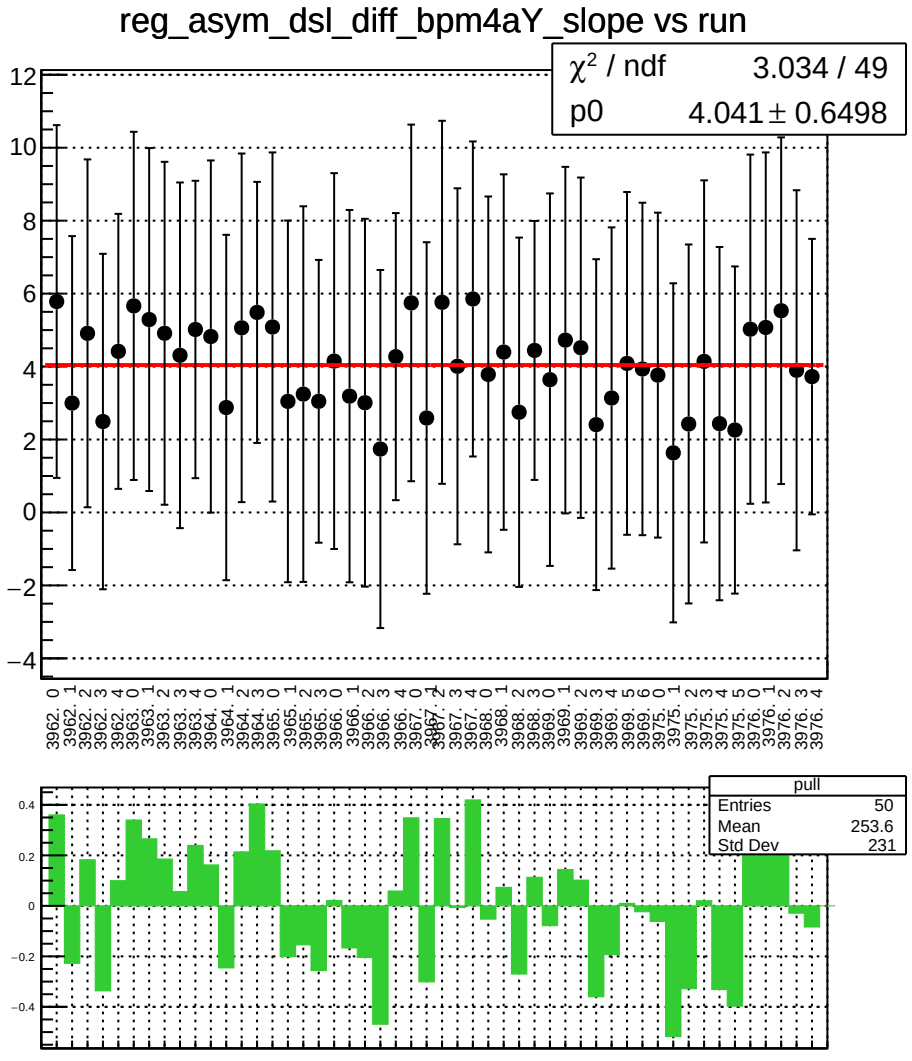

pull1D
Entries 50
Mean −0.003021
Std Dev 0.3395

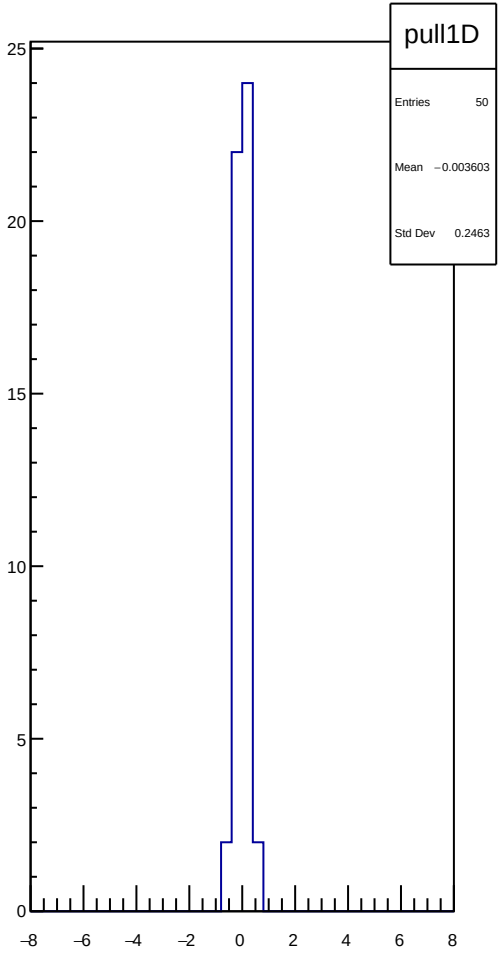

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 10.59 / 49
p0 −50.46 ± 0.1556
−48
−49
−50
−51
−52
pull
Entries 50
Mean −139.3
Std Dev 168.1
2
1.5
1
0.5
0
−0.5

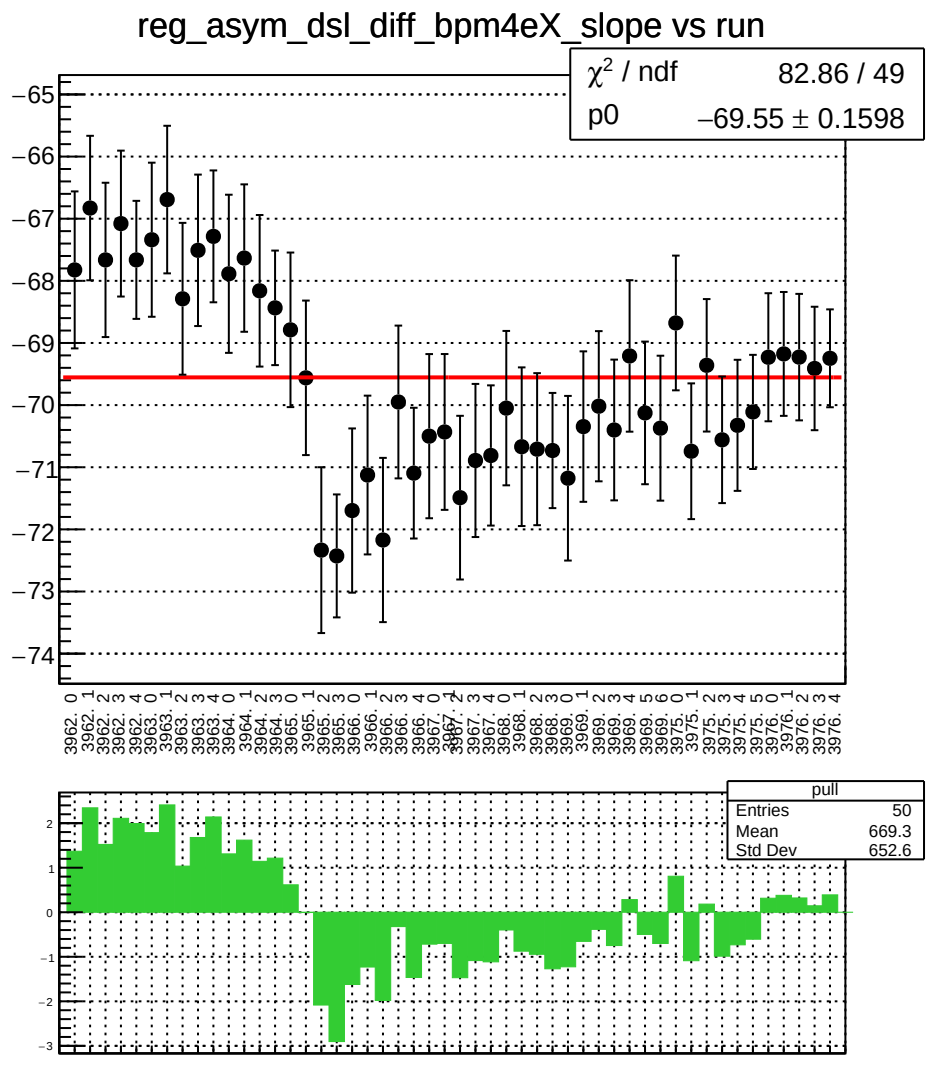

pull1D
Entries 50
Mean −0.01452
Std Dev 0.4599
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

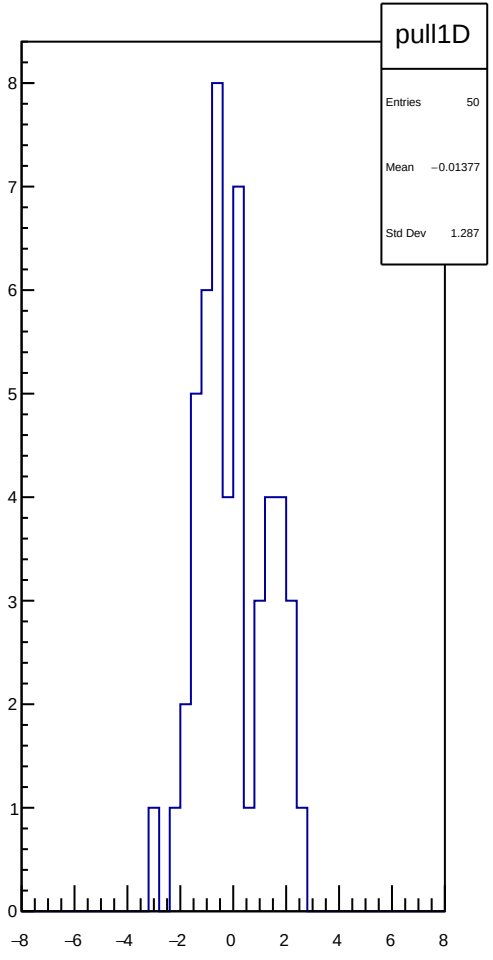

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 10.51 / 49
p0 15.94 ± 0.9311
pull
Entries 50
Mean −341.3
Std Dev 365.3

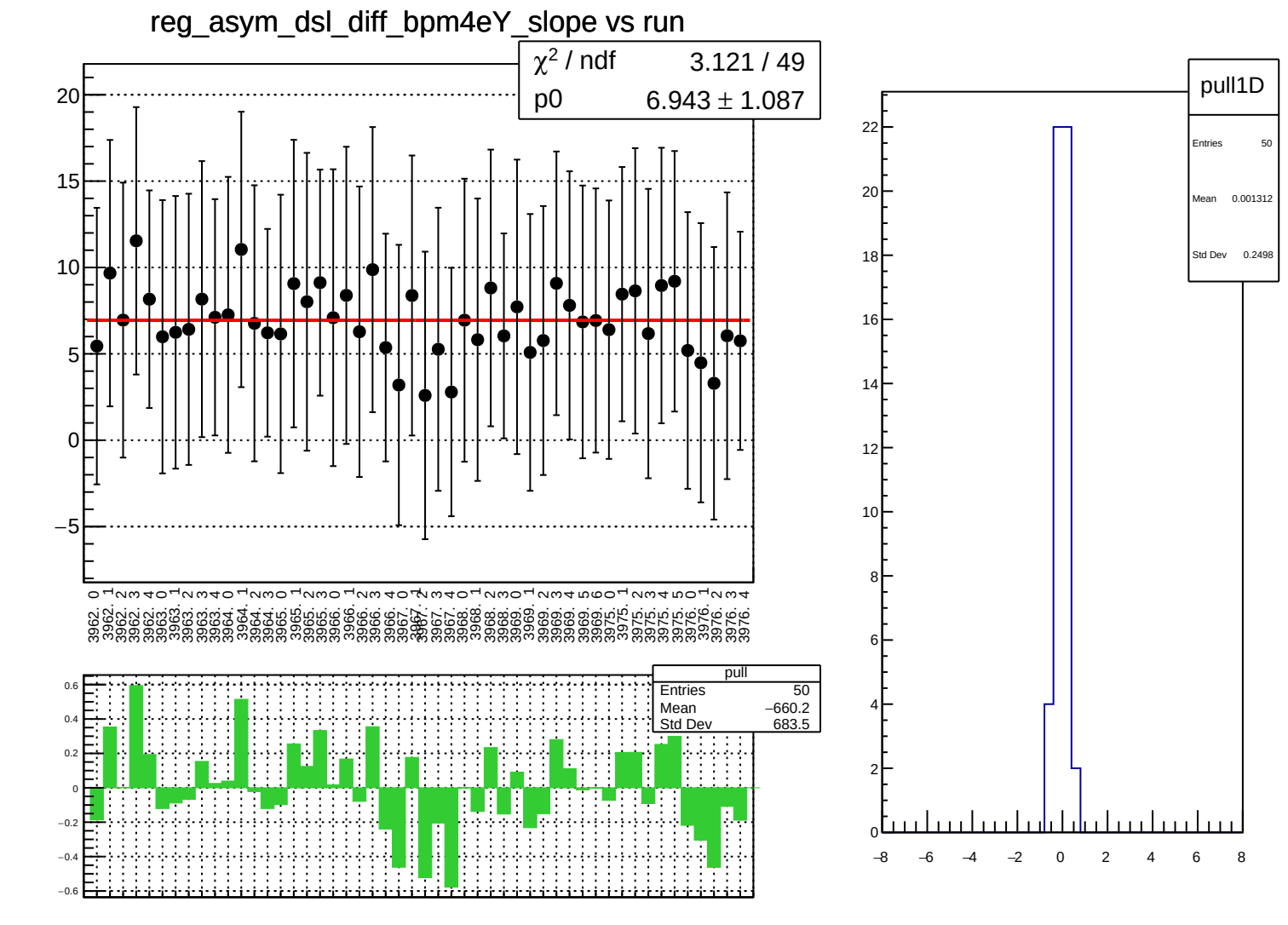

pull1D
Entries 50
Mean −0.008054
Std Dev 0.4585

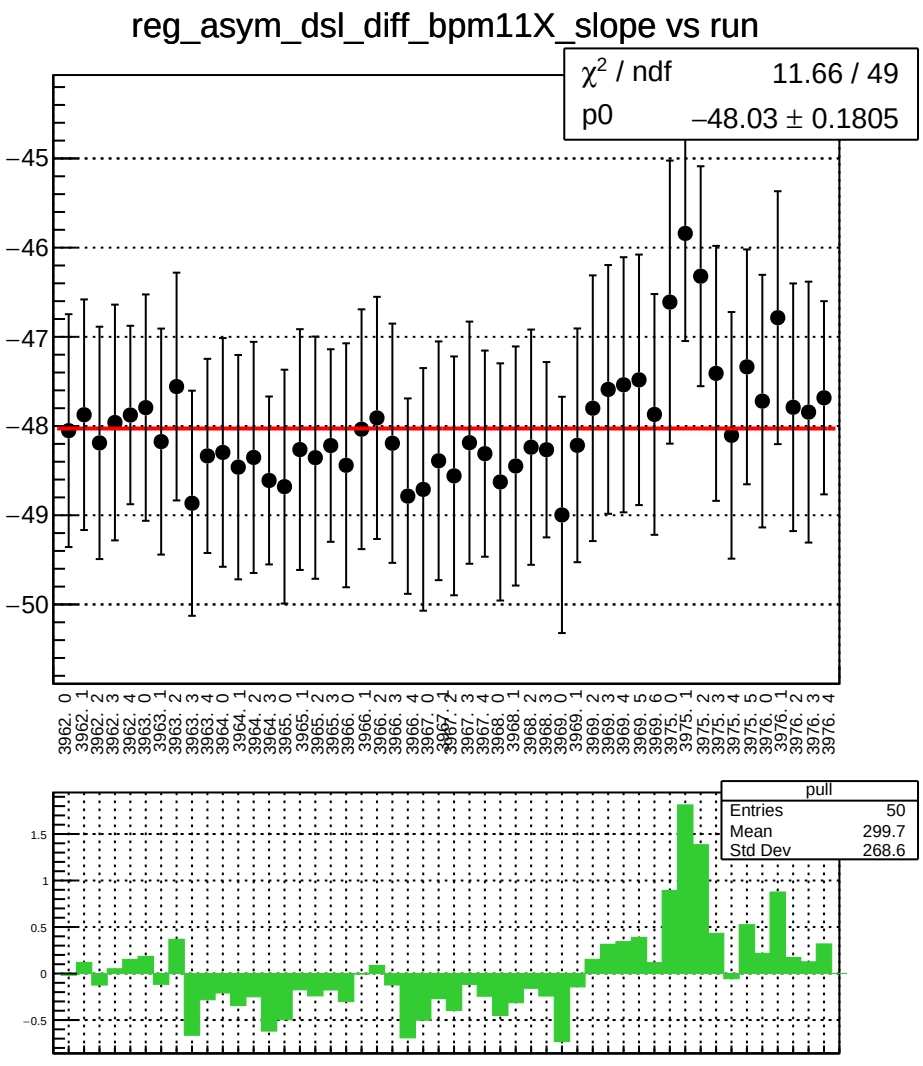

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 3.034 / 49
p0 4.041 ± 0.6498
pull
Entries 50
Mean 253.6
Std Dev 231

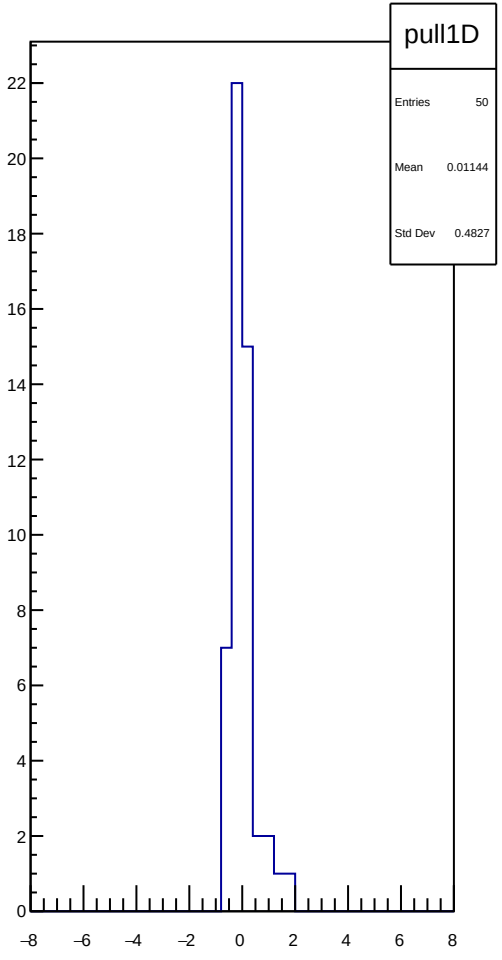

pull1D
Entries 50
Mean −0.003603
Std Dev 0.2463

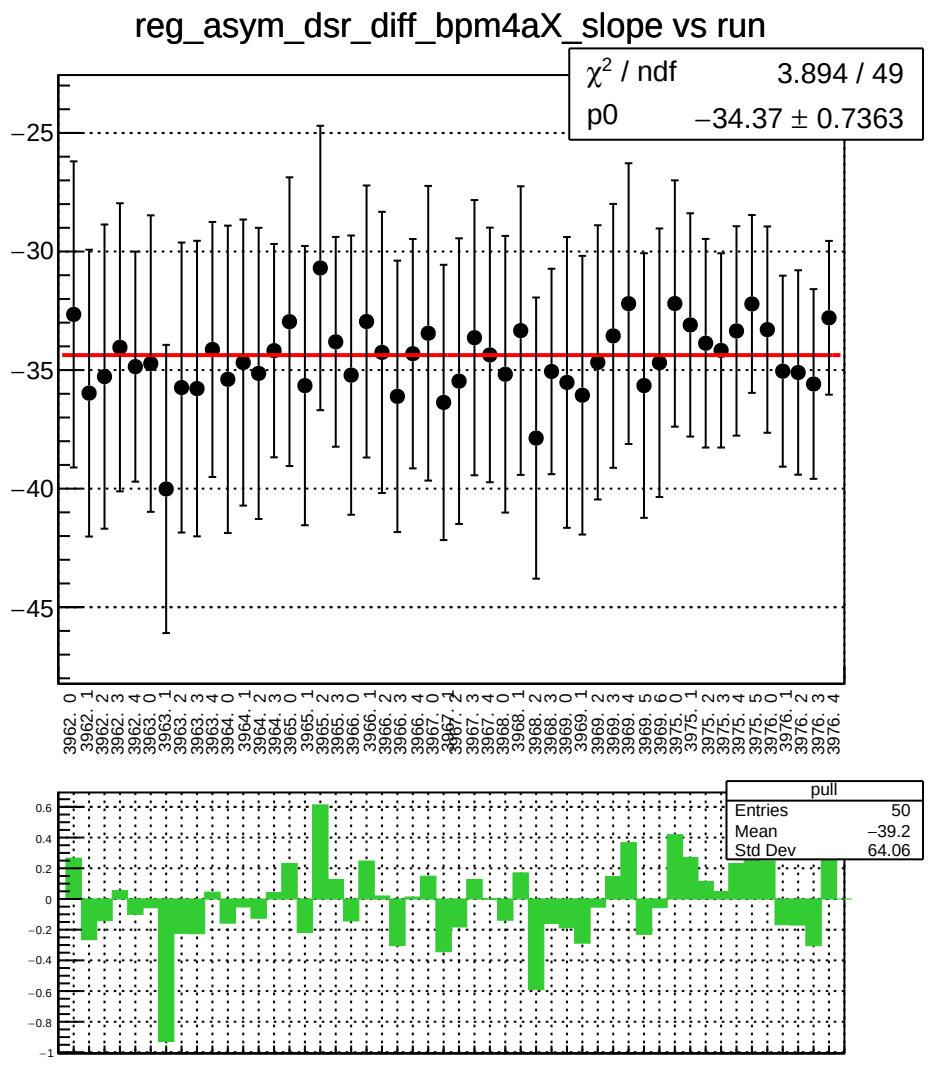

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 82.86 / 49
p0 −69.55 ± 0.1598
pull
Entries 50
Mean 669.3
Std Dev 652.6

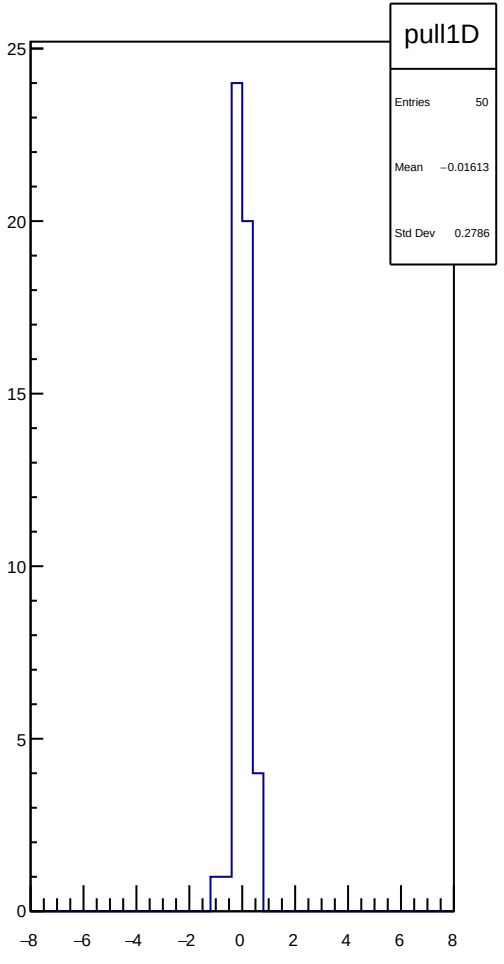

pull1D
Entries 50
Mean −0.01377
Std Dev 1.287

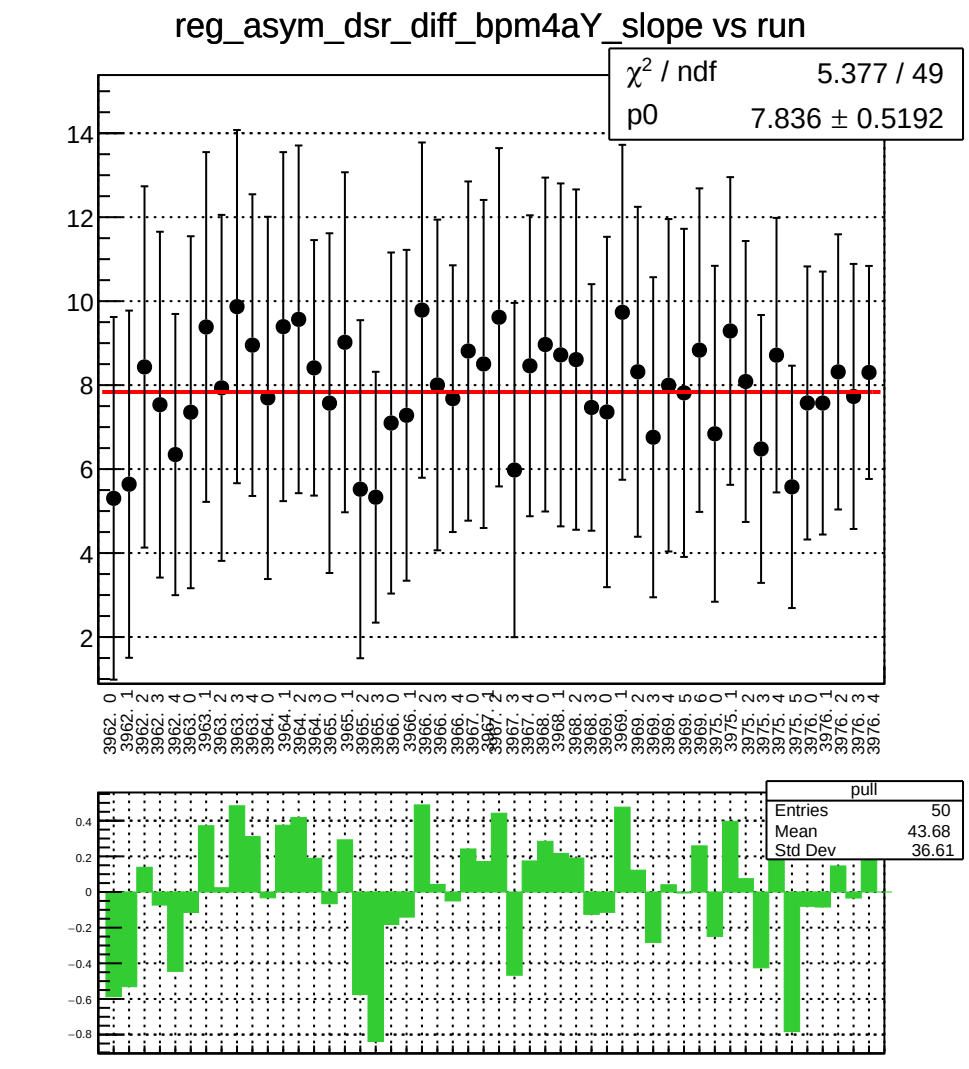

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 3.121 / 49
p0 6.943 ± 1.087
pull
Entries 50
Mean −660.2
Std Dev 683.5
pull1D
Entries 50
Mean 0.001312
Std Dev 0.2498

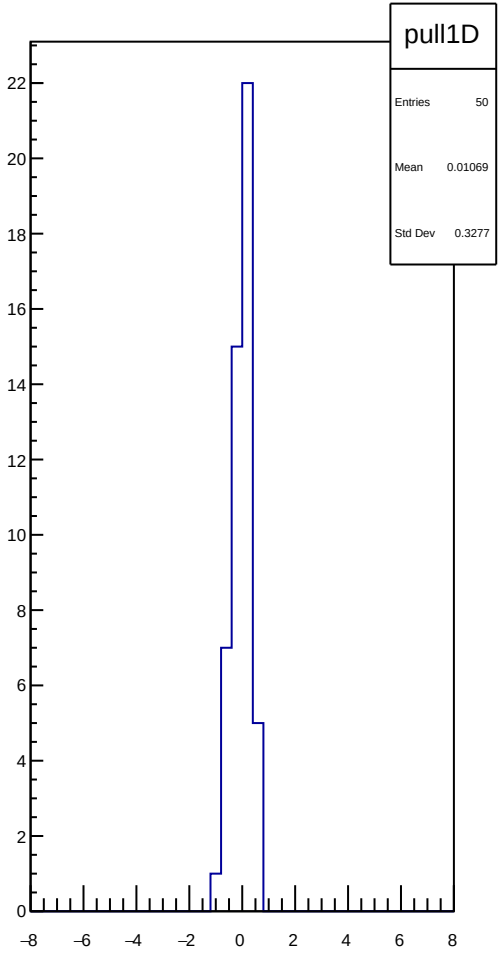

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 11.66 / 49
p0 −48.03 ± 0.1805
pull
Entries 50
Mean 299.7
Std Dev 268.6

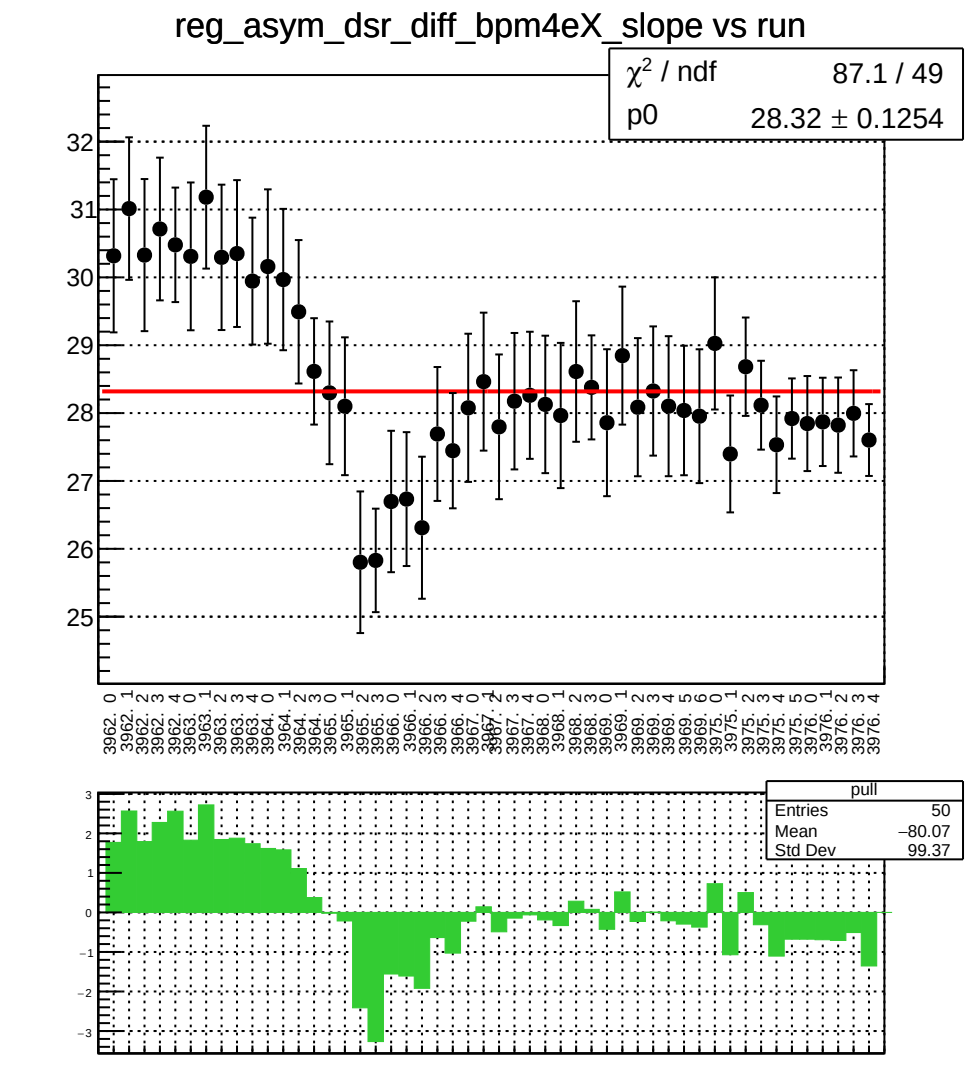

pull1D
Entries 50
Mean 0.01144
Std Dev 0.4827

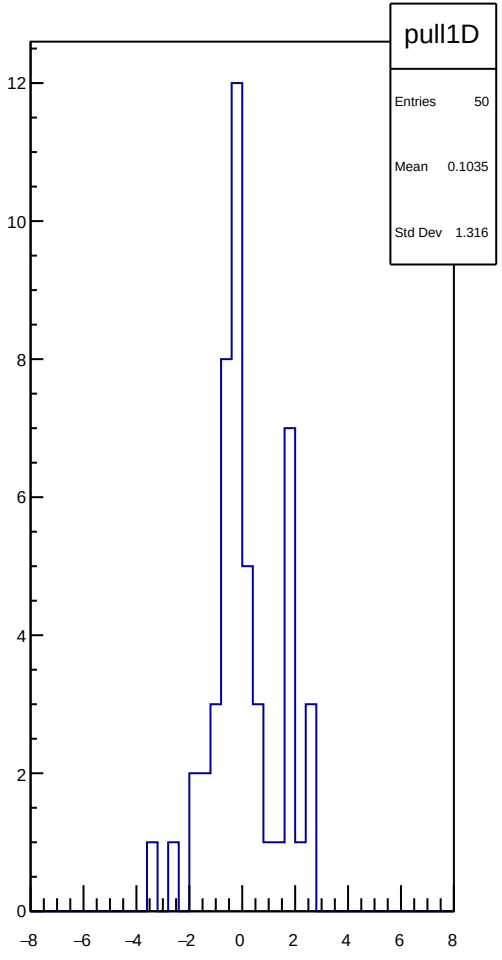

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 3.894 / 49
p0 −34.37 ± 0.7363
pull
Entries 50
Mean −39.2
Std Dev 64.06

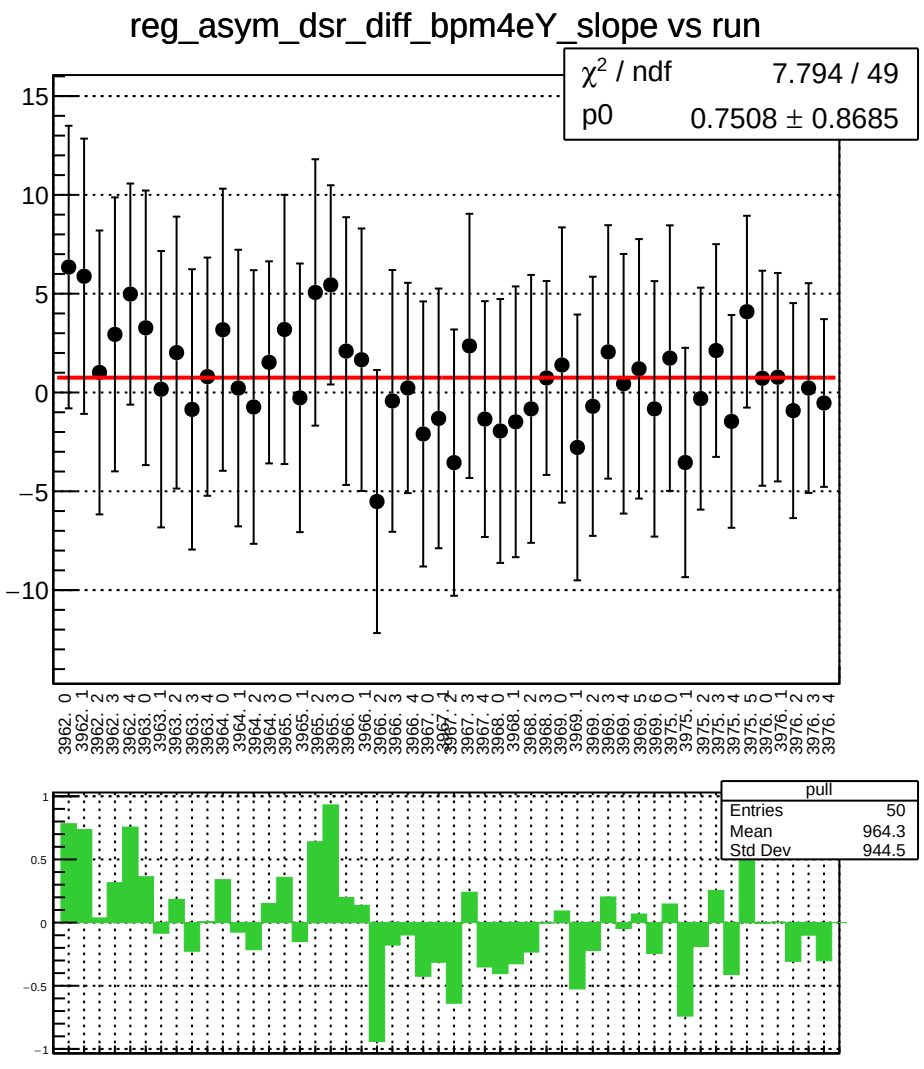

pull1D
Entries 50
Mean −0.01613
Std Dev 0.2786

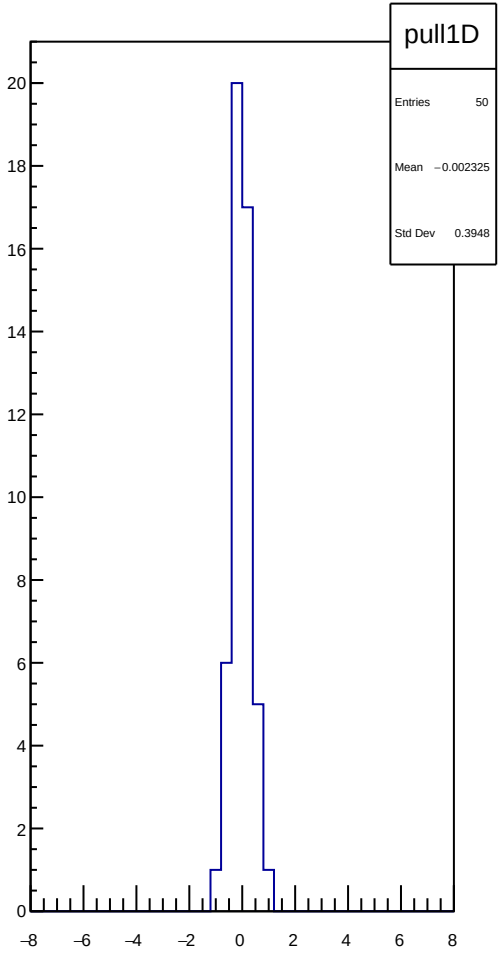

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 5.377 / 49
p0 7.836 ± 0.5192
pull
Entries 50
Mean 43.68
Std Dev 36.61

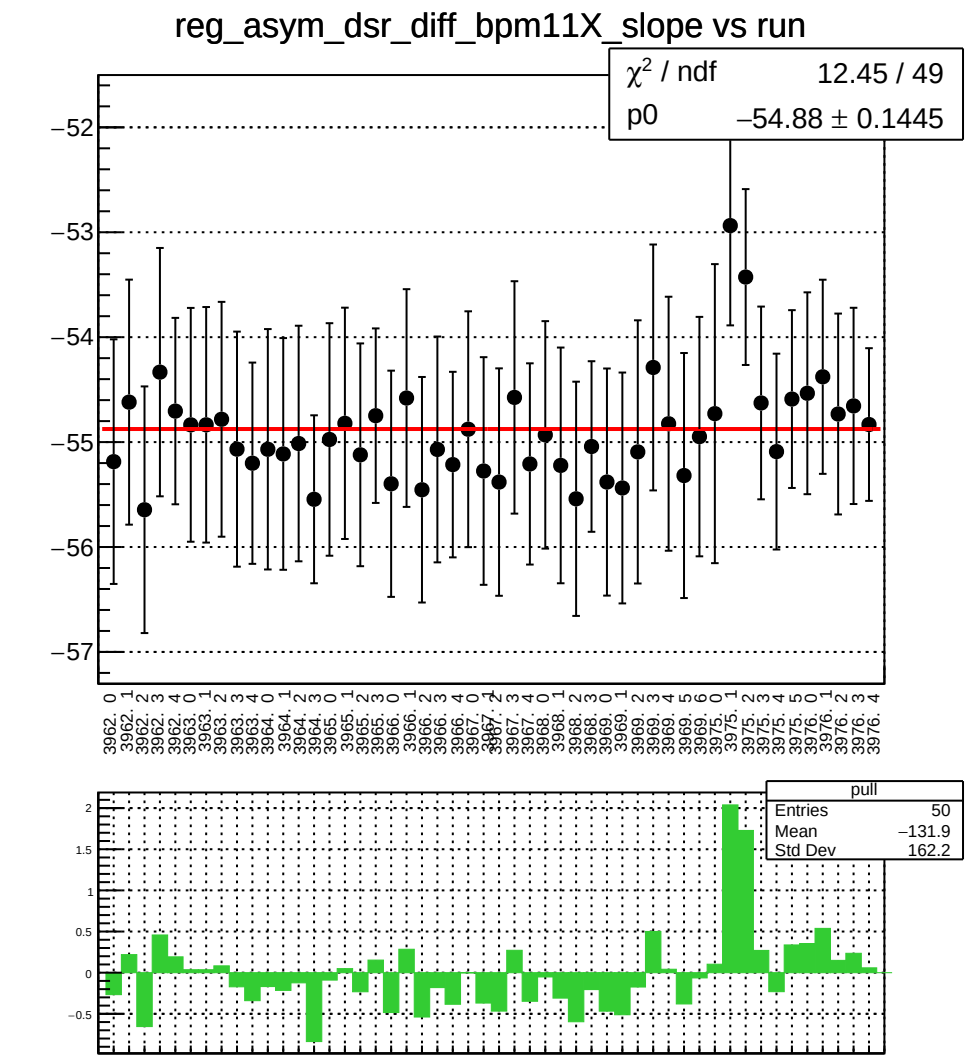

pull1D
Entries 50
Mean 0.01069
Std Dev 0.3277

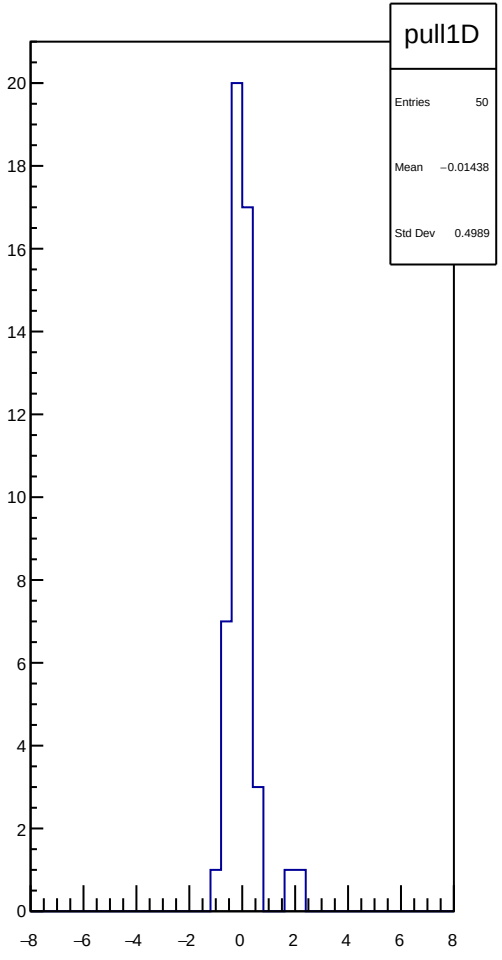

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 87.1 / 49
p0 28.32 ± 0.1254
pull
Entries 50
Mean −80.07
Std Dev 99.37

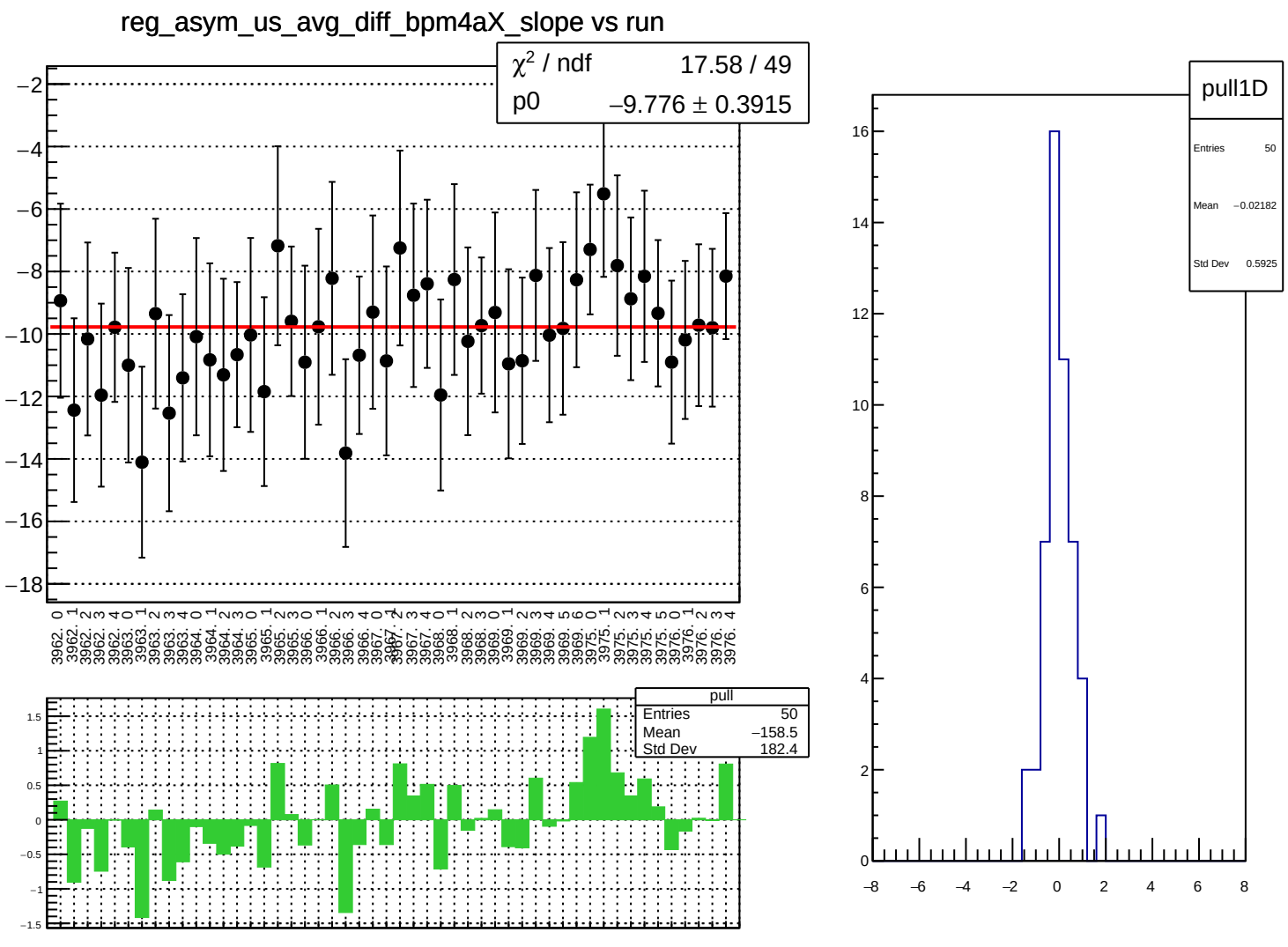

pull1D
Entries 50
Mean 0.1035
Std Dev 1.316

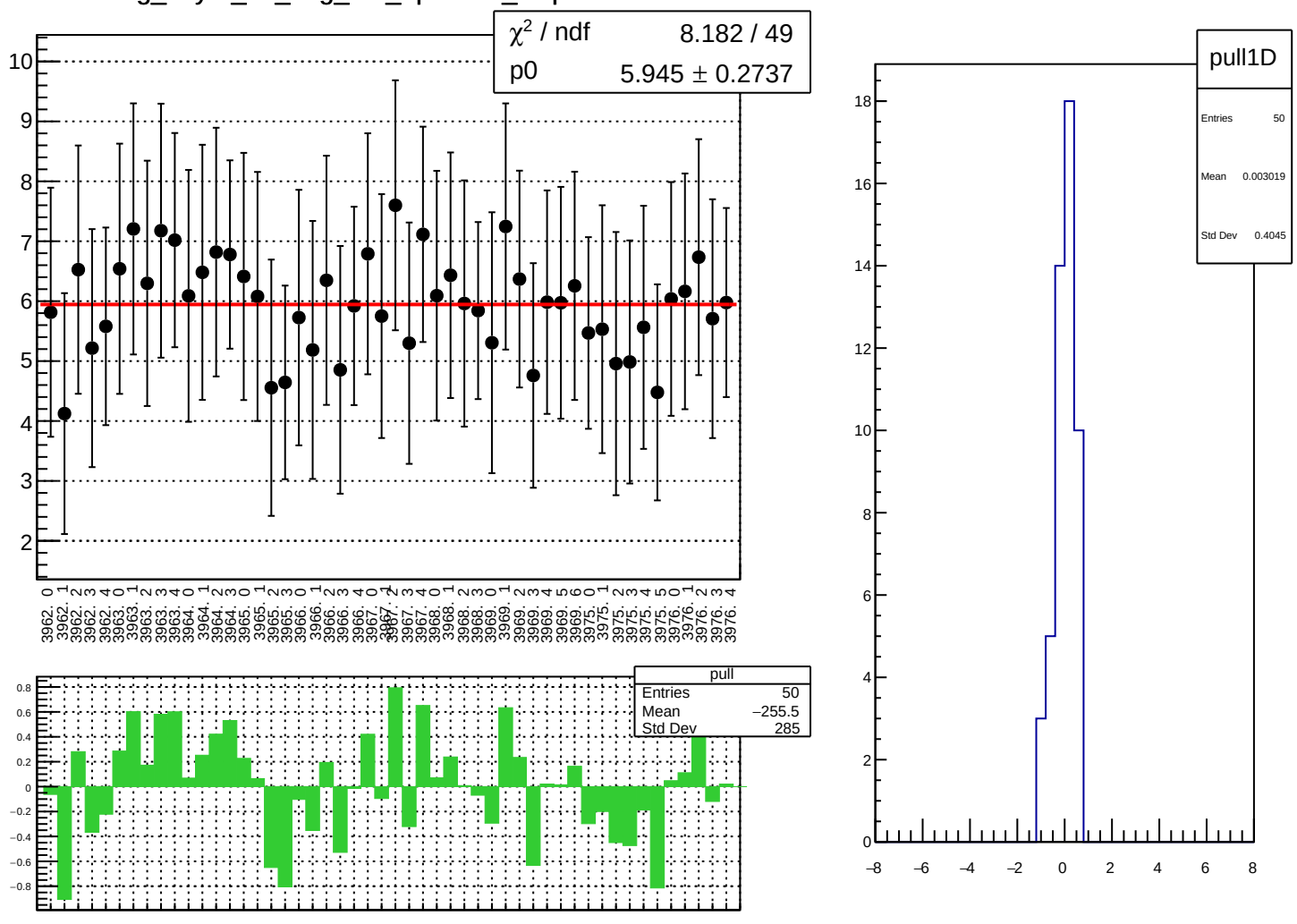

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 7.794 / 49
p0 0.7508 ± 0.8685
pull
Entries 50
Mean 964.3
Std Dev 944.5

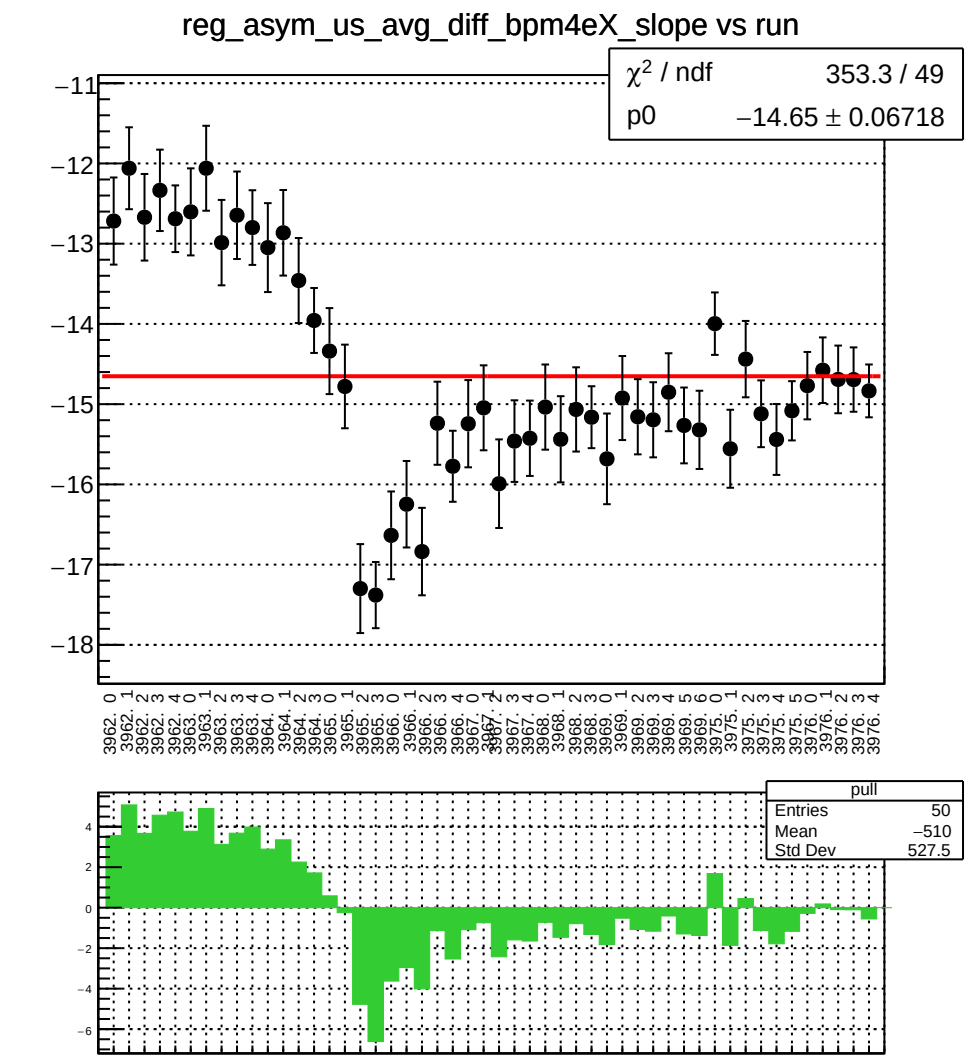

pull1D
Entries 50
Mean −0.002325
Std Dev 0.3948

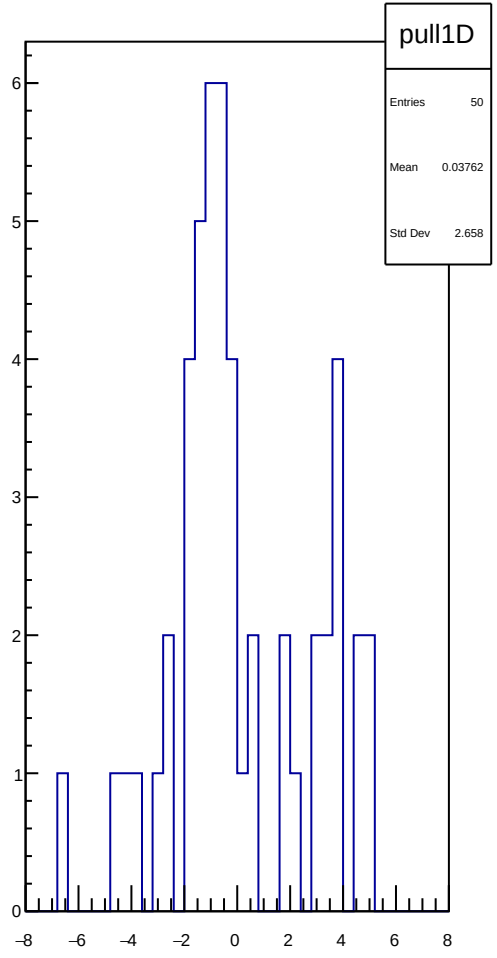

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 12.45 / 49
p0 −54.88 ± 0.1445
pull
Entries 50
Mean −131.9
Std Dev 162.2

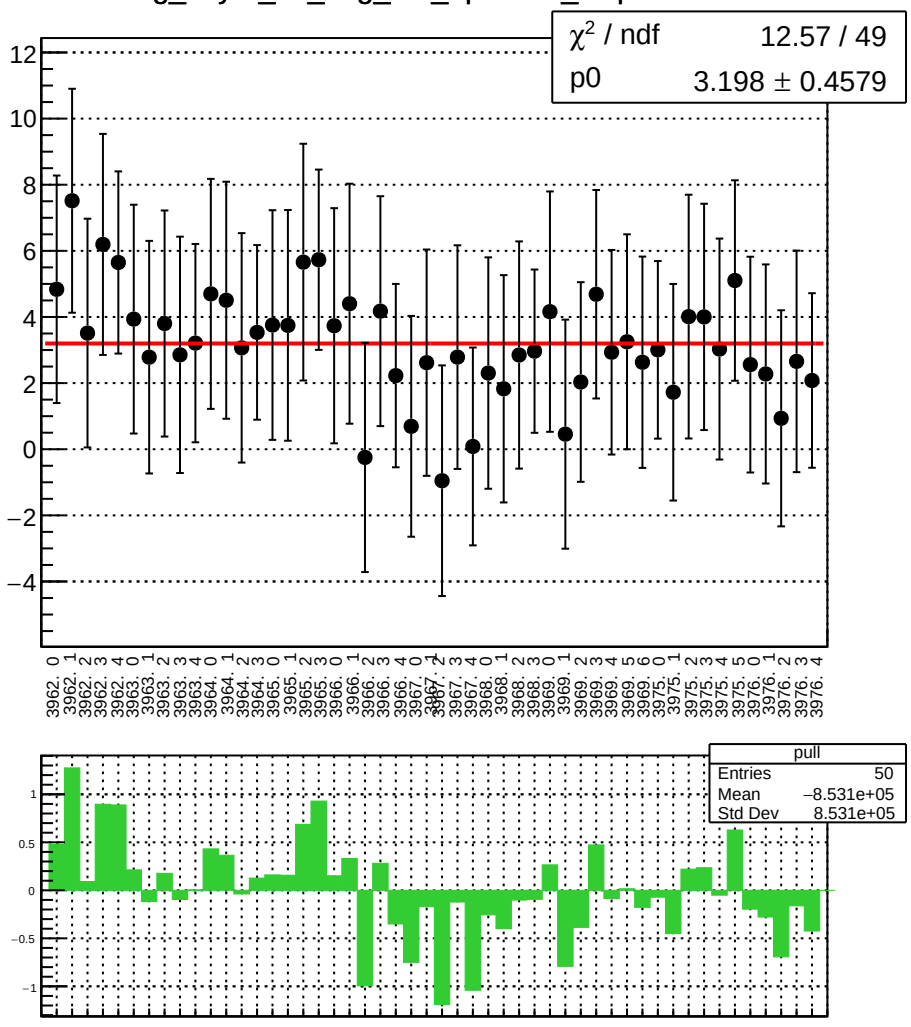

pull1D
Entries 50
Mean −0.01438
Std Dev 0.4989

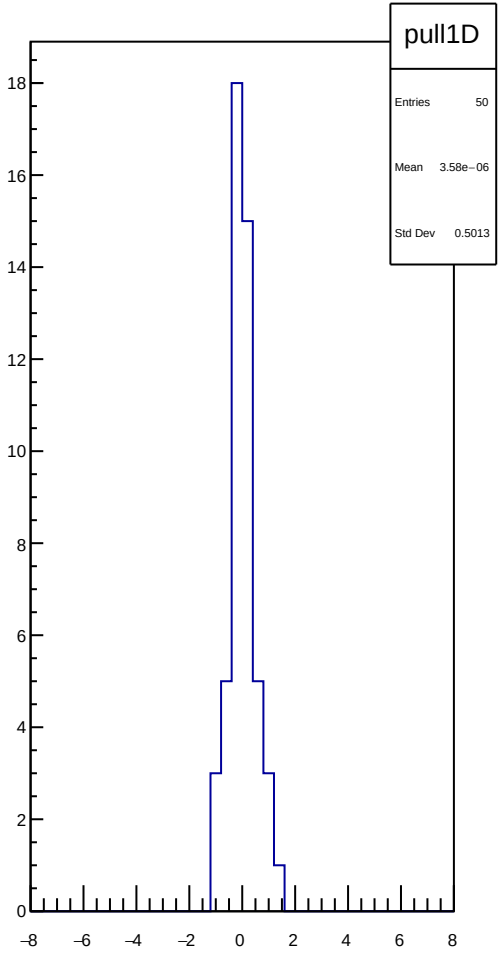

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 17.58 / 49
p0 −9.776 ± 0.3915
pull
Entries 50
Mean −158.5
Std Dev 182.4
pull1D
Entries 50
Mean −0.02182
Std Dev 0.5925

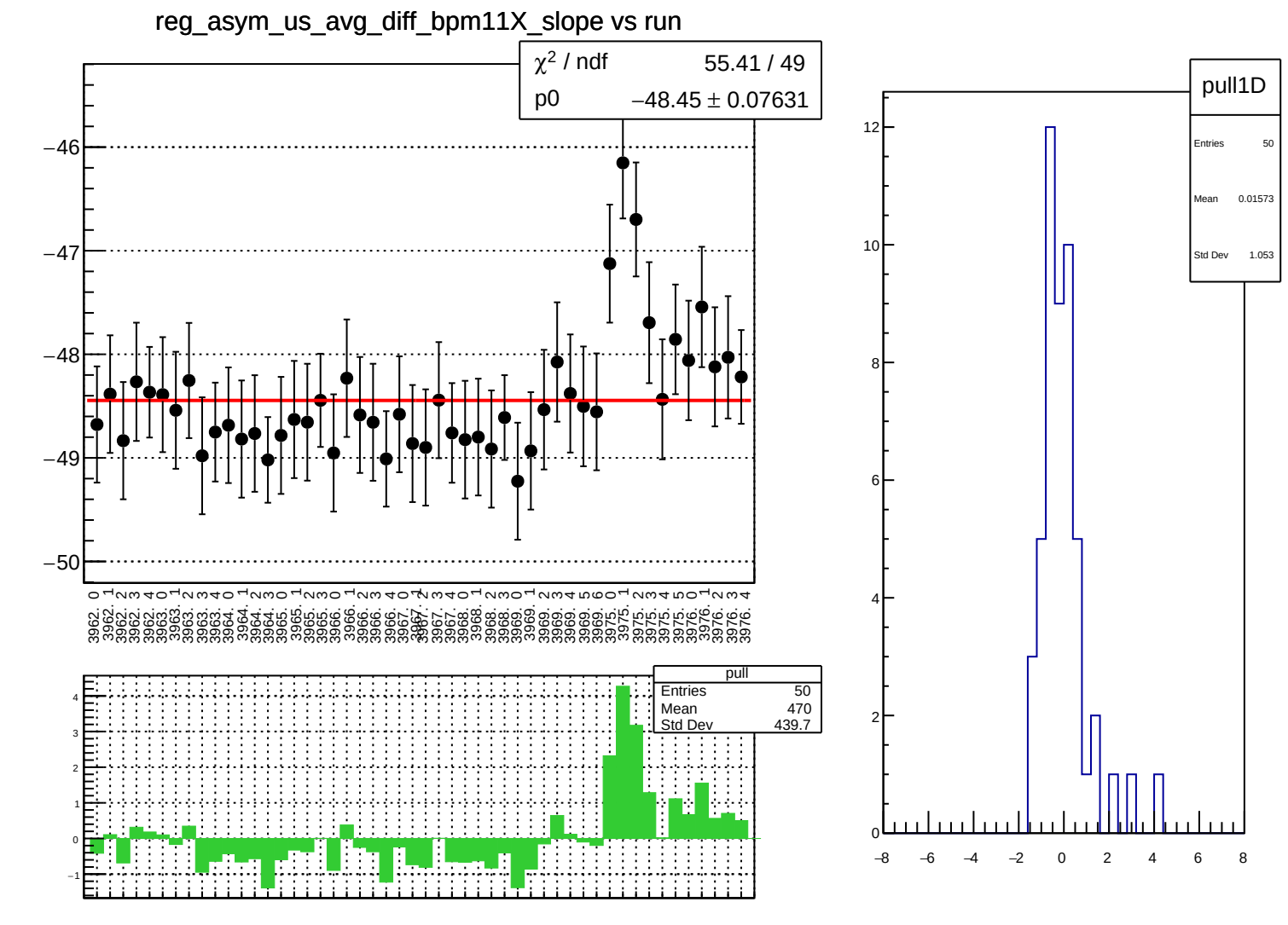

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.182 / 49
p0 5.945 ± 0.2737
pull
Entries 50
Mean −255.5
Std Dev 285
pull1D
Entries 50
Mean 0.003019
Std Dev 0.4045

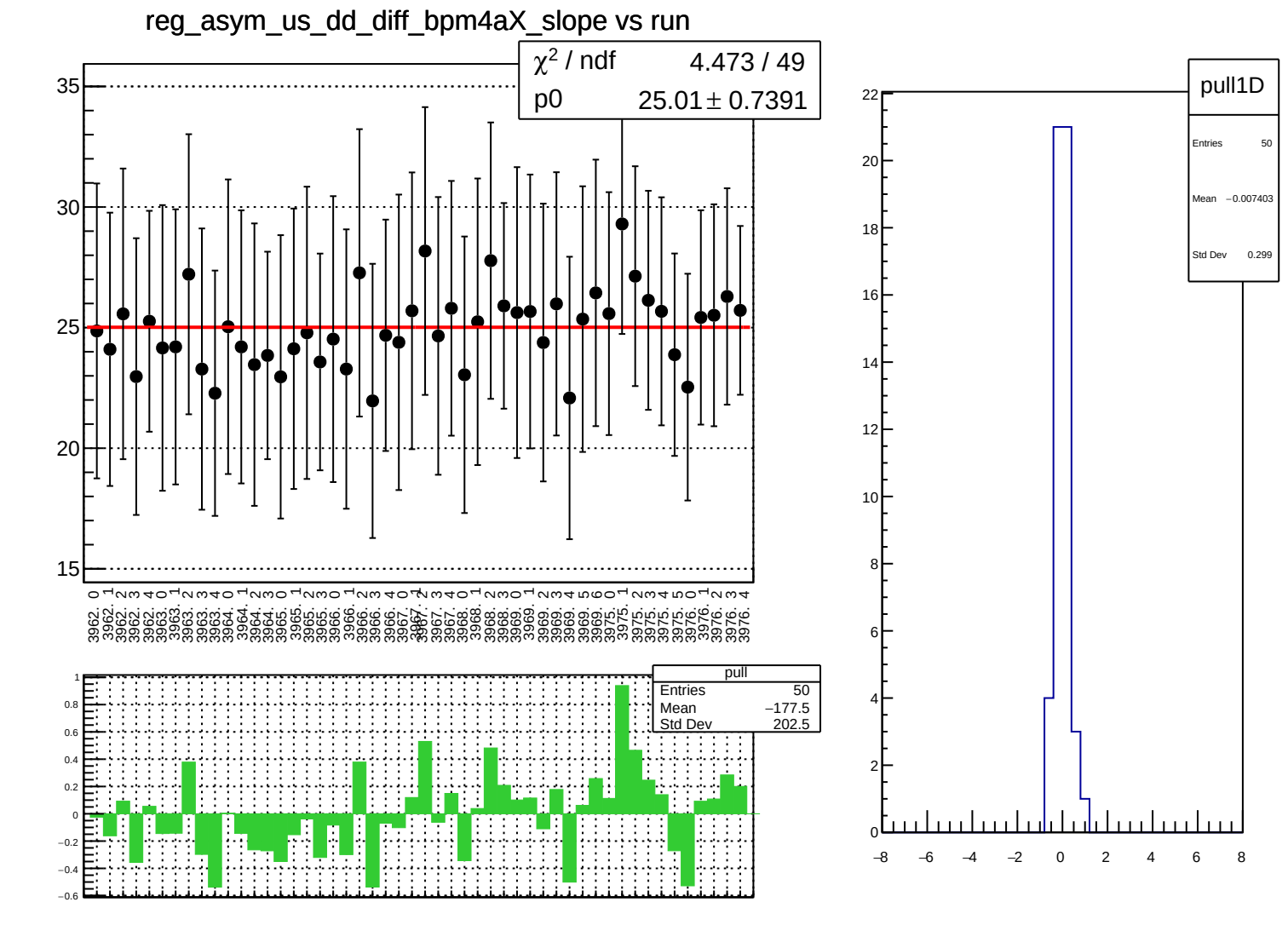

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 353.3 / 49
p0 −14.65 ± 0.06718
pull
Entries 50
Mean −510
Std Dev 527.5

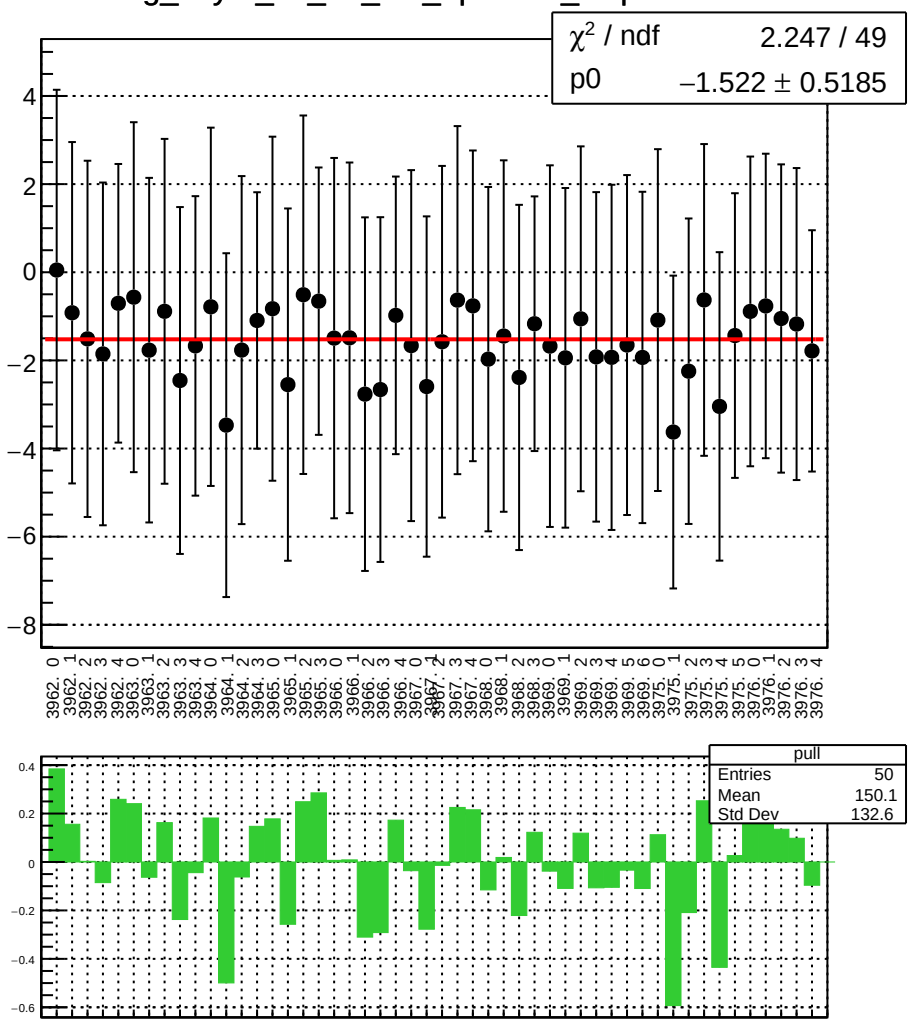

pull1D
Entries 50
Mean 0.03762
Std Dev 2.658

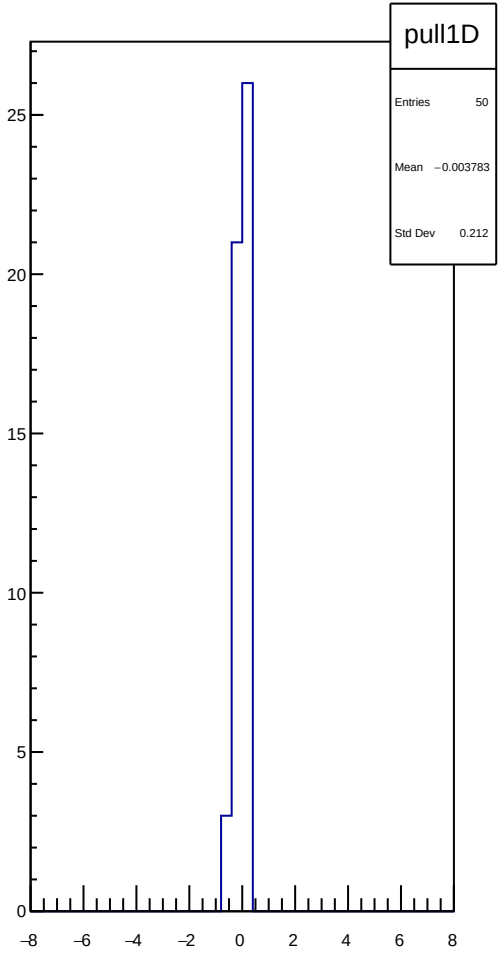

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.57 / 49
p0 3.198 ± 0.4579
pull
Entries 50
Mean −8.531e+05
Std Dev 8.531e+05

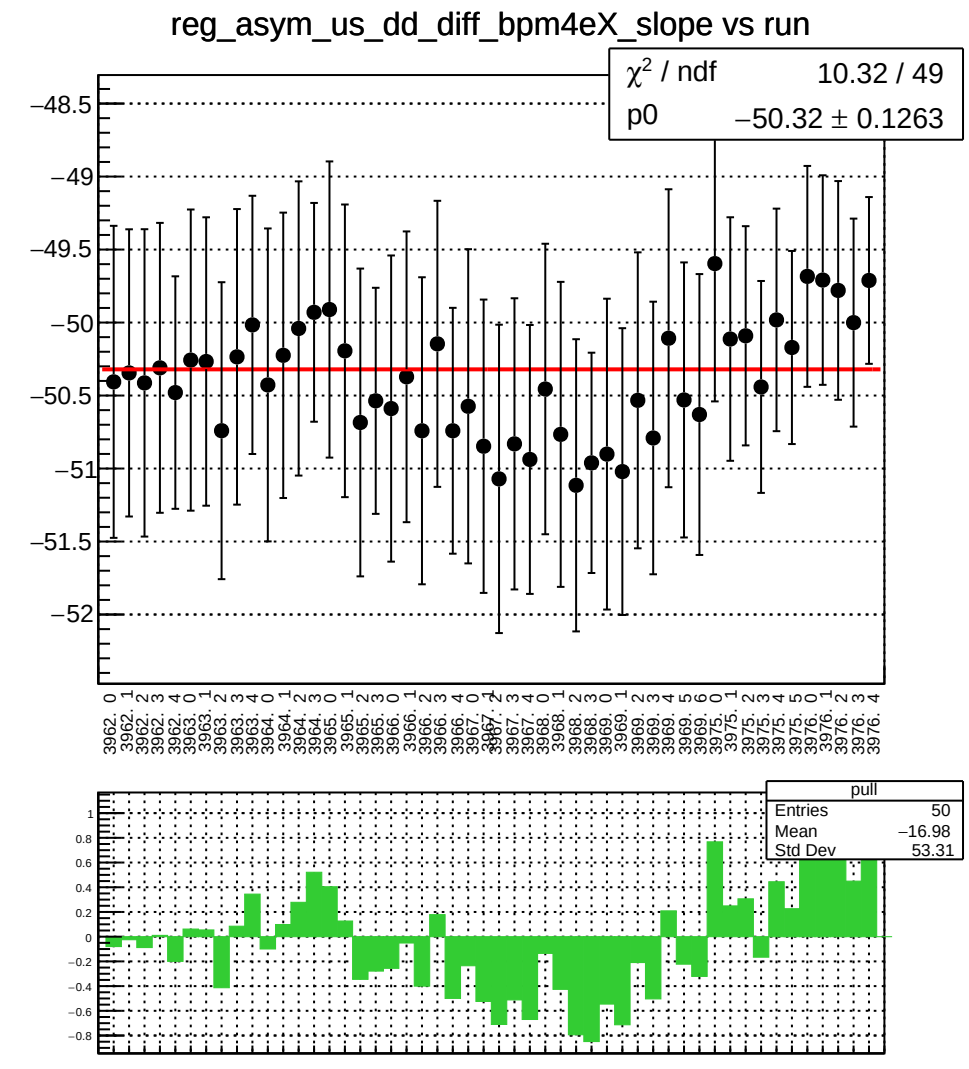

pull1D
Entries 50
Mean 3.58e−06
Std Dev 0.5013

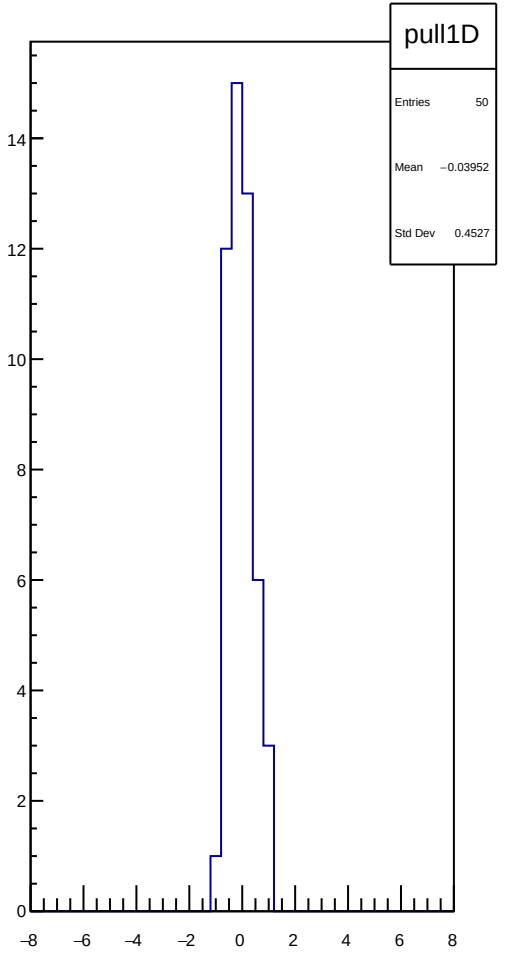

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 55.41 / 49
p0 −48.45 ± 0.07631
pull
Entries 50
Mean 470
Std Dev 439.7
pull1D
Entries 50
Mean 0.01573
Std Dev 1.053

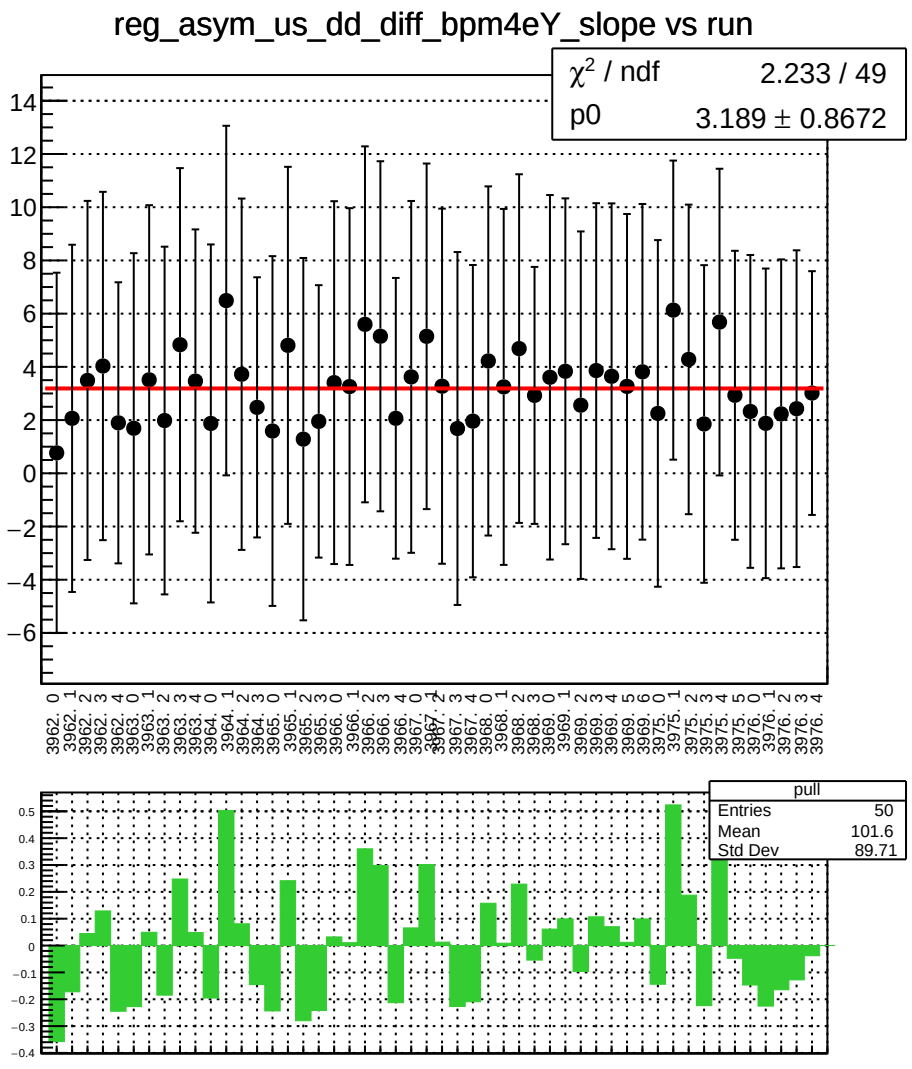

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.473 / 49
p0 25.01 ± 0.7391
pull
Entries 50
Mean −177.5
Std Dev 202.5
pull1D
Entries 50
Mean −0.007403
Std Dev 0.299

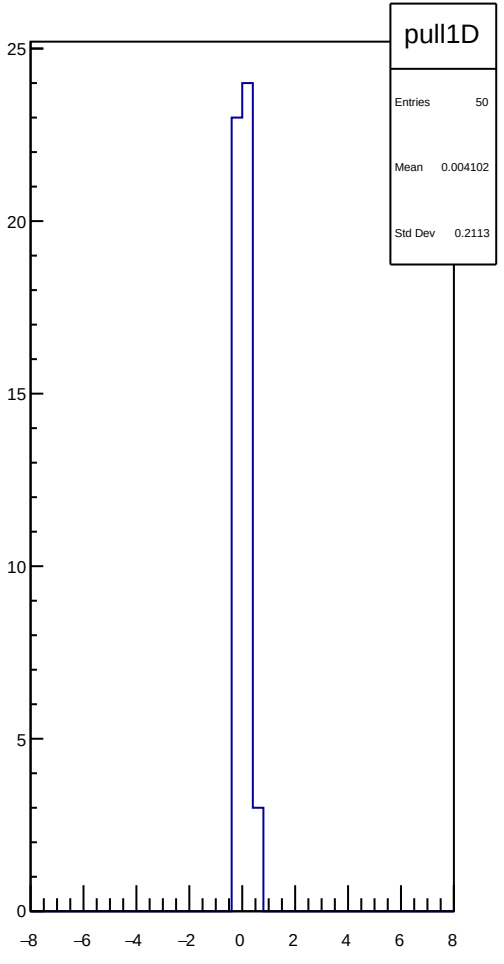

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.247 / 49
p0 −1.522 ± 0.5185
pull
Entries 50
Mean 150.1
Std Dev 132.6

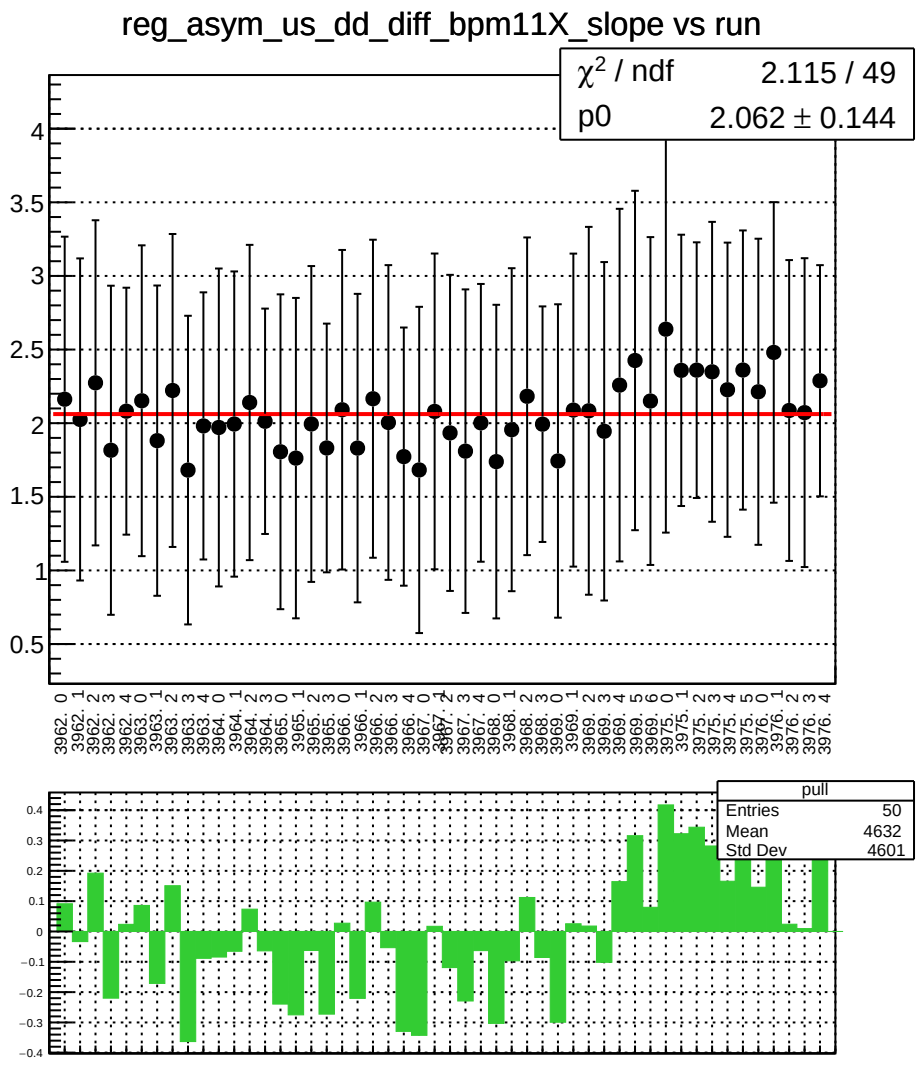

pull1D
Entries 50
Mean −0.003783
Std Dev 0.212

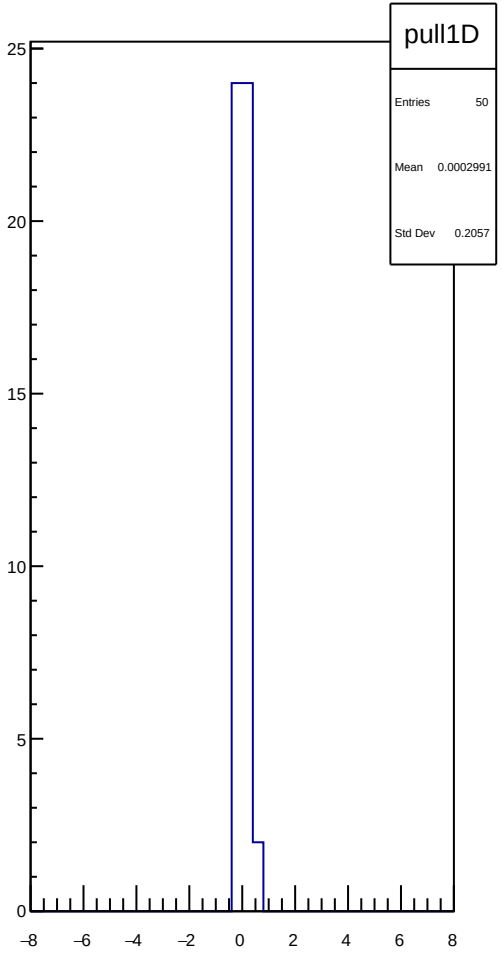

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.32 / 49
p0 −50.32 ± 0.1263
−48.5
−49
−49.5
−50
−50.5
−51
−51.5
−52
pull
Entries 50
Mean −16.98
Std Dev 53.31
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

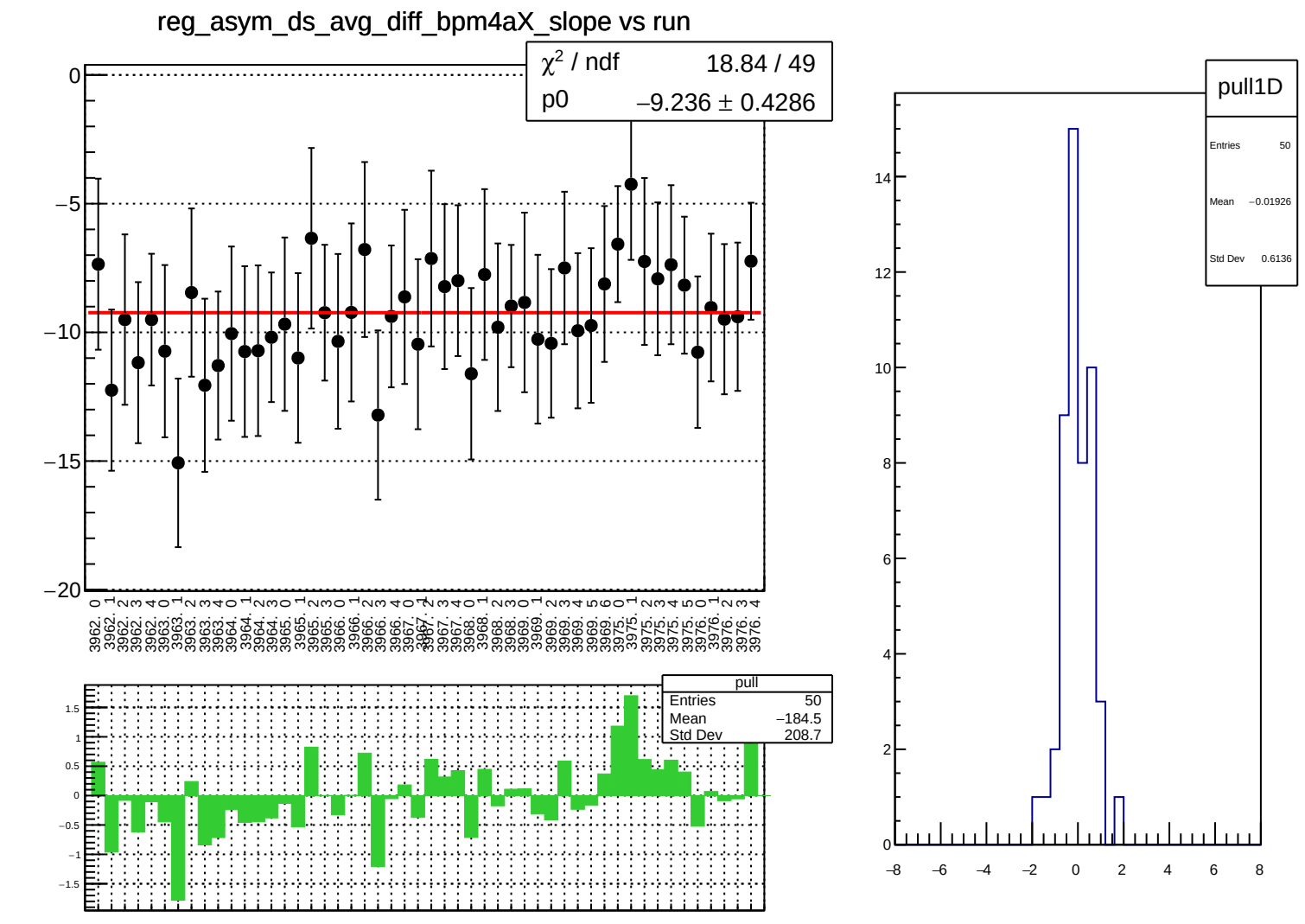

pull1D
Entries 50
Mean −0.03952
Std Dev 0.4527
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

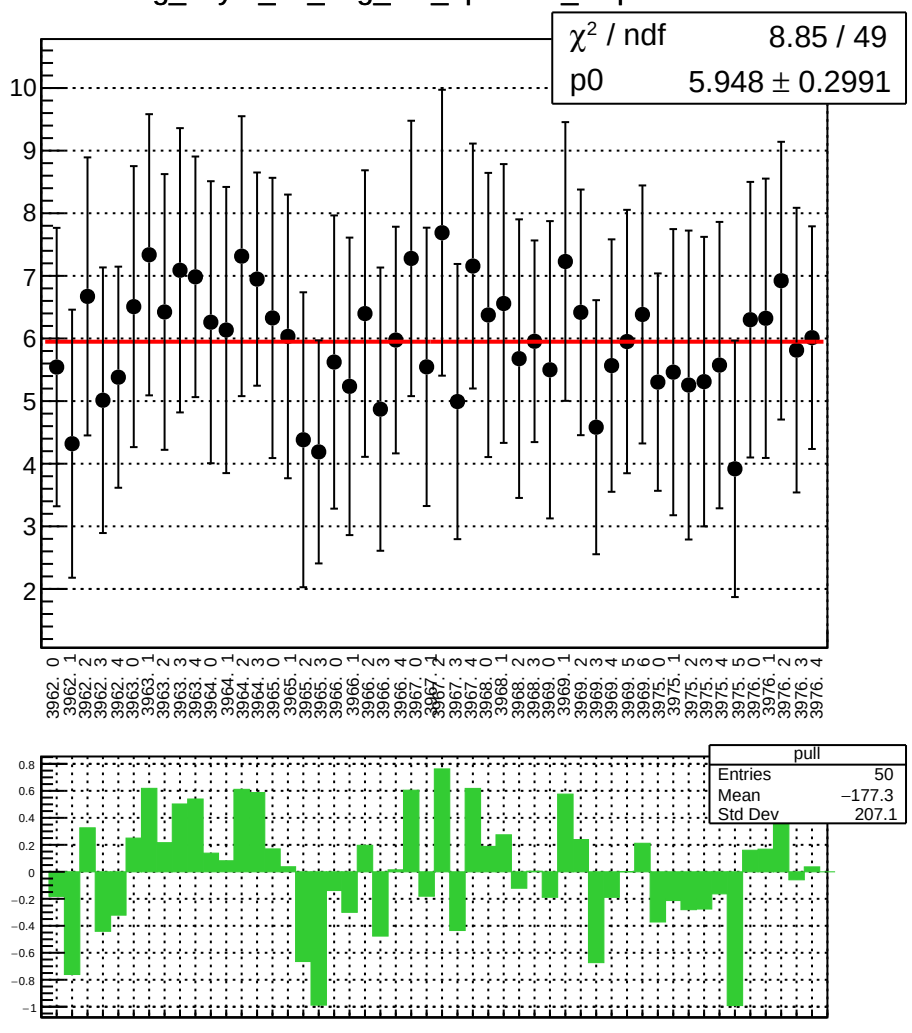

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.233 / 49
p0 3.189 ± 0.8672
pull
Entries 50
Mean 101.6
Std Dev 89.71

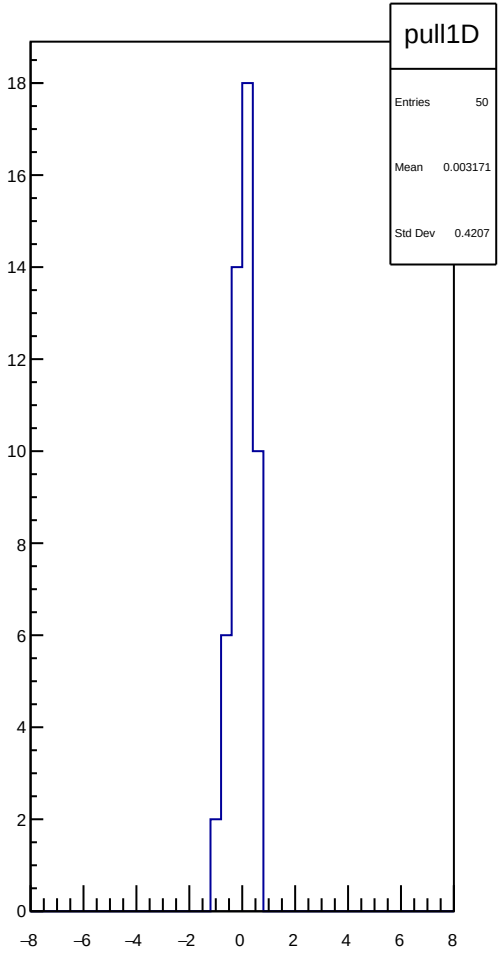

pull1D
Entries 50
Mean 0.004102
Std Dev 0.2113

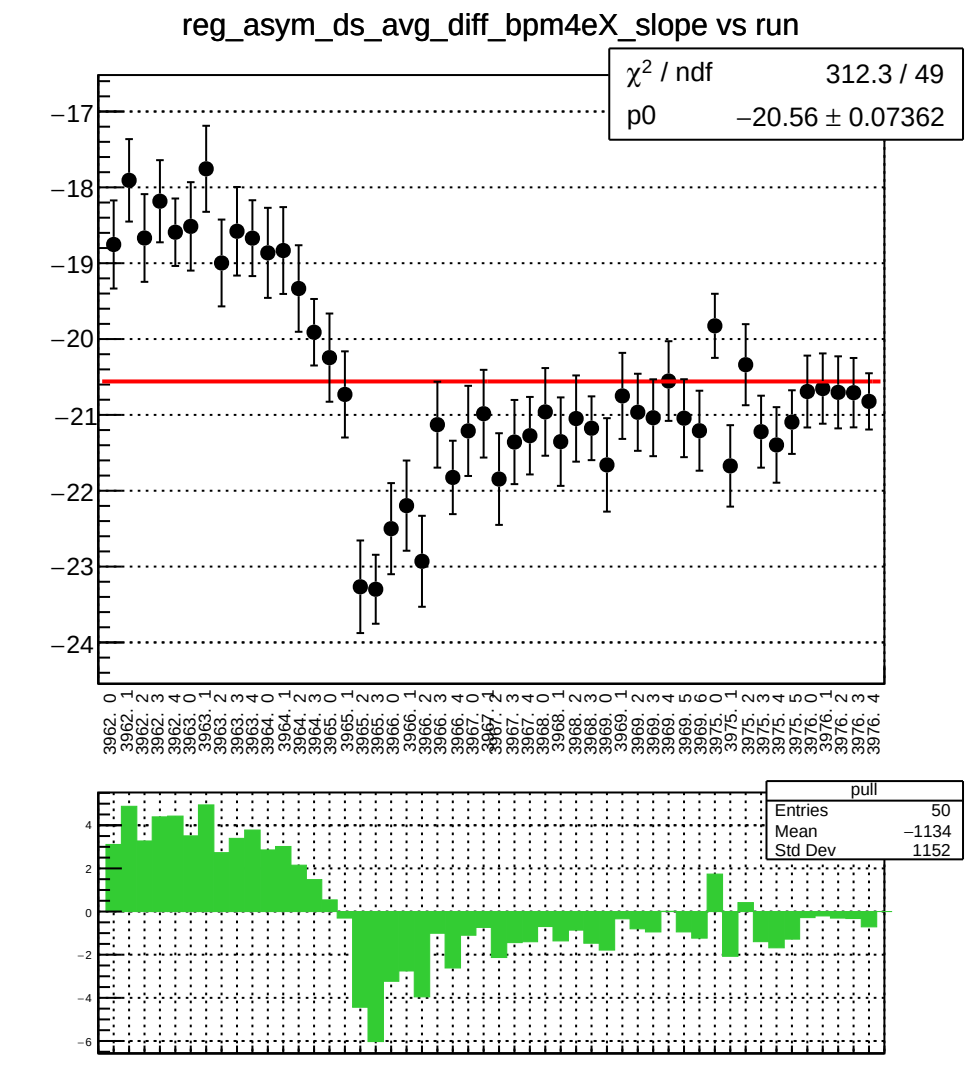

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 2.115 / 49
p0 2.062 ± 0.144
pull
Entries 50
Mean 4632
Std Dev 4601

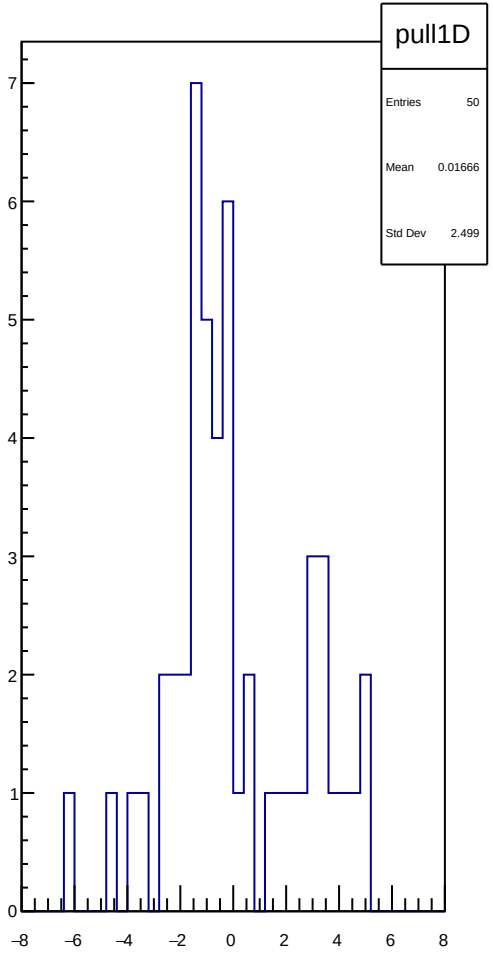

pull1D
Entries 50
Mean 0.0002991
Std Dev 0.2057

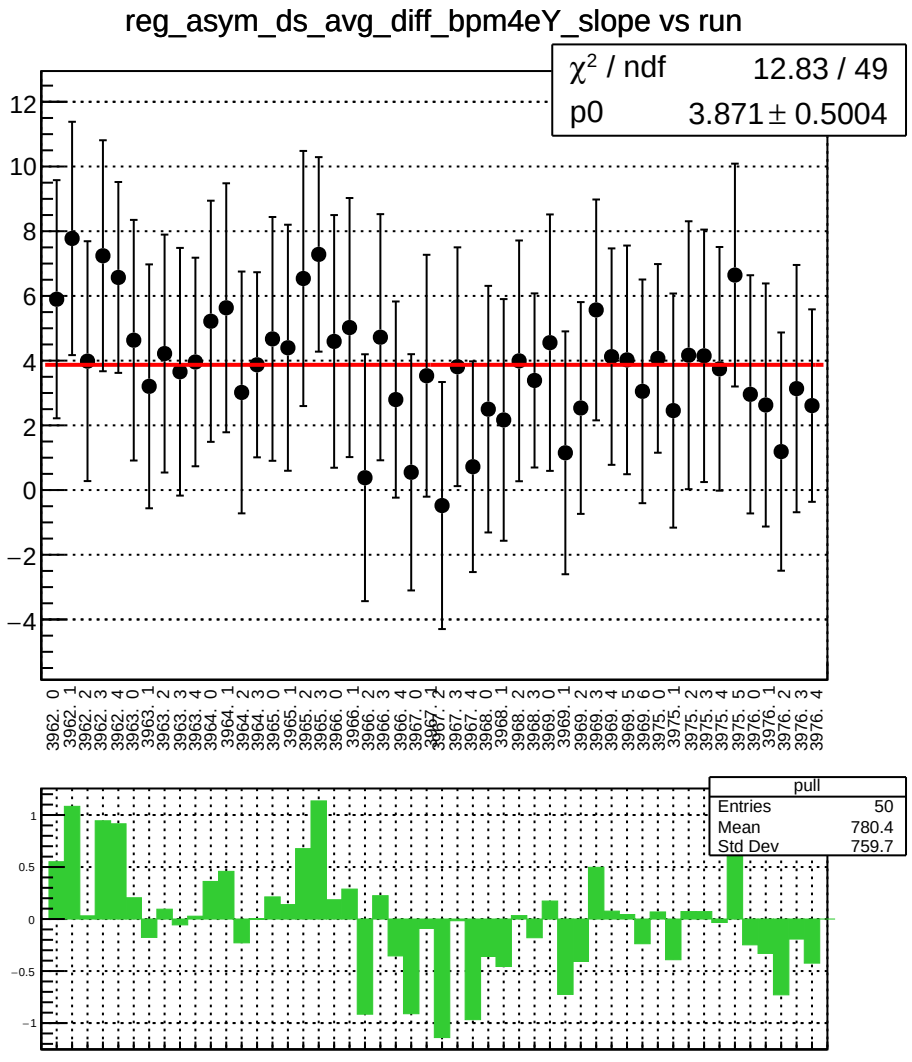

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.84 / 49
p0 −9.236 ± 0.4286
pull
Entries 50
Mean −184.5
Std Dev 208.7
pull1D
Entries 50
Mean −0.01926
Std Dev 0.6136

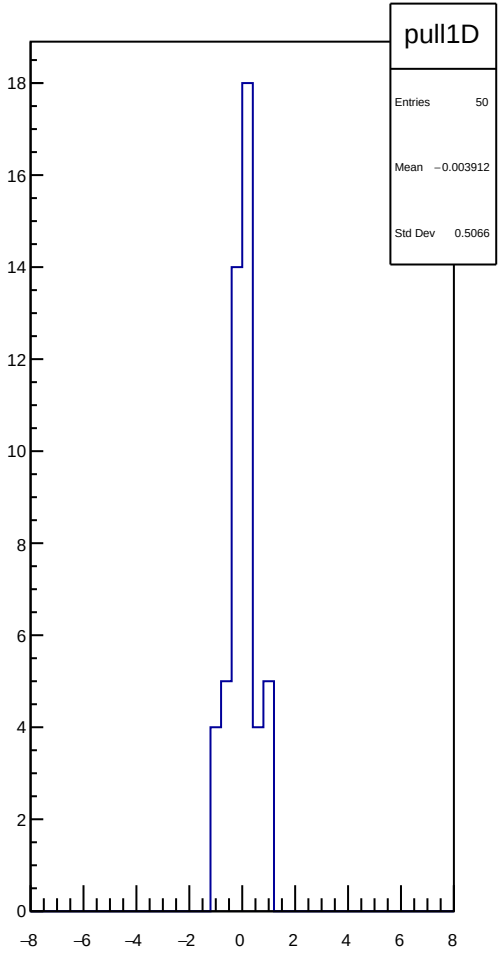

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.85 / 49
p0 5.948 ± 0.2991
pull
Entries 50
Mean −177.3
Std Dev 207.1

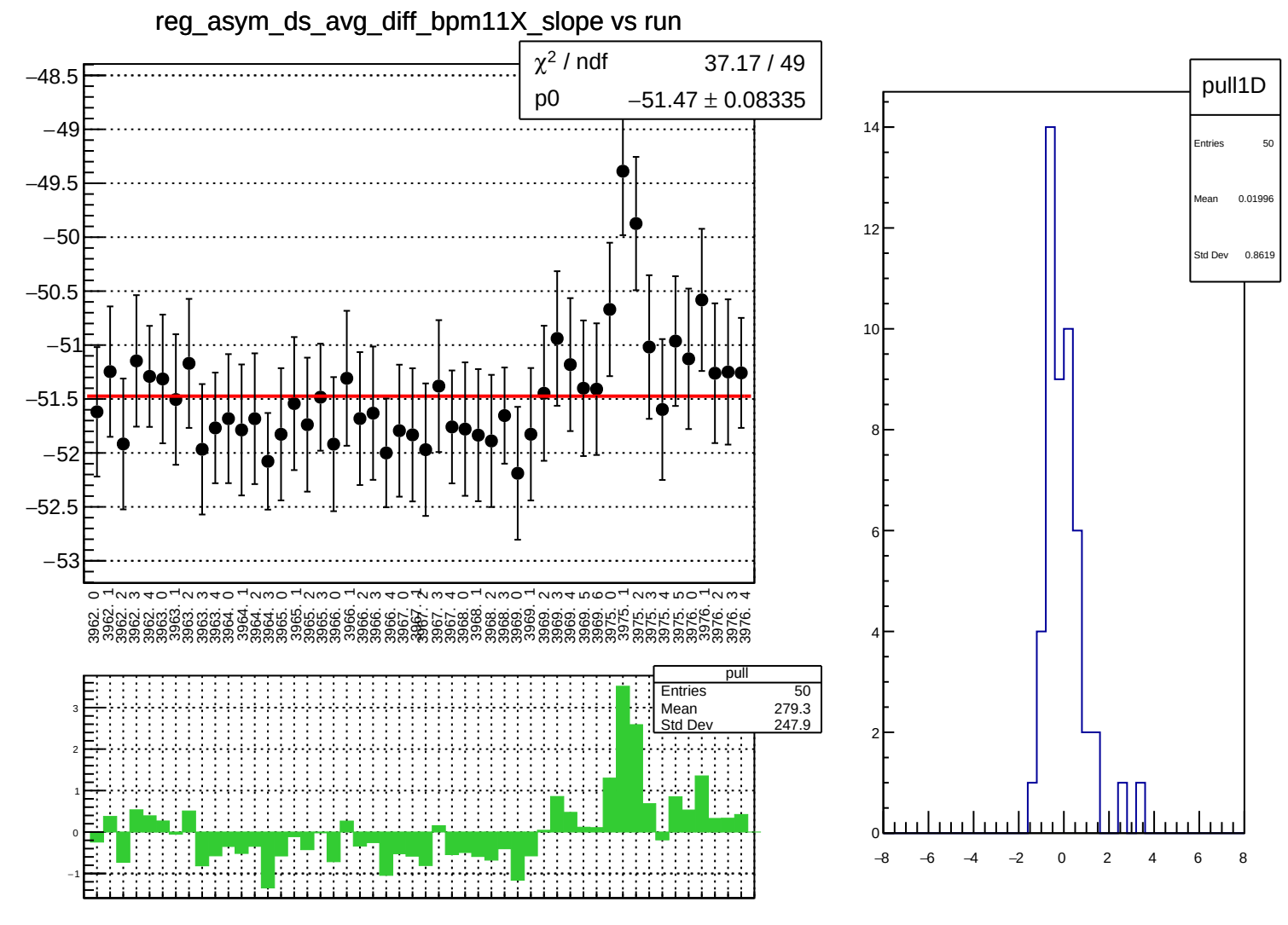

pull1D
Entries 50
Mean 0.003171
Std Dev 0.4207

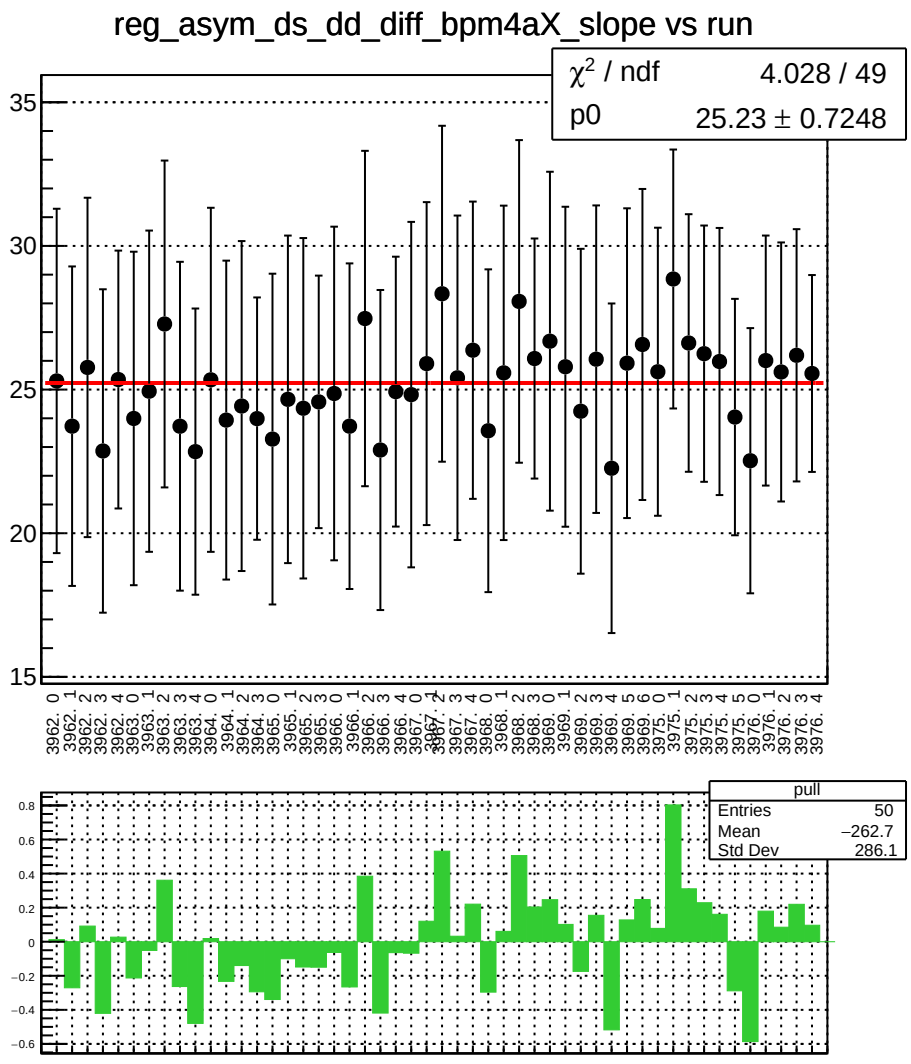

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 312.3 / 49
p0 −20.56 ± 0.07362
pull
Entries 50
Mean −1134
Std Dev 1152

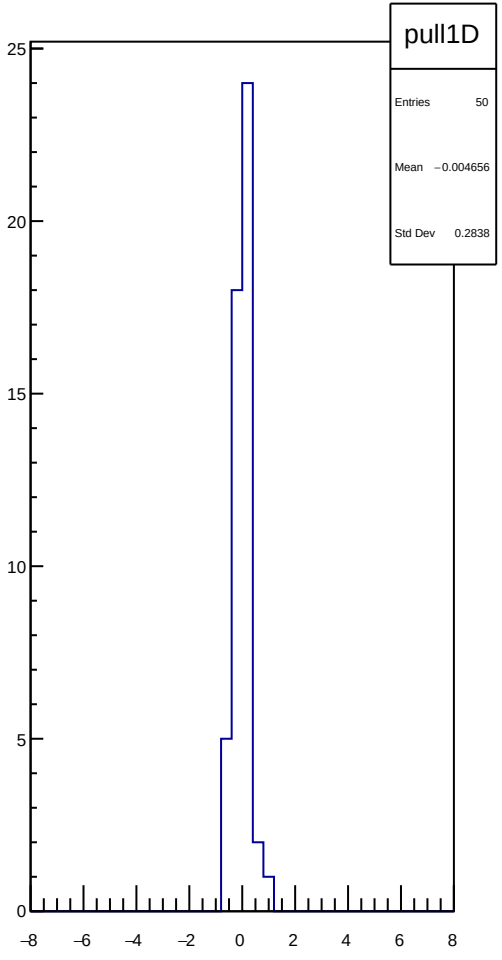

pull1D
Entries 50
Mean 0.01666
Std Dev 2.499

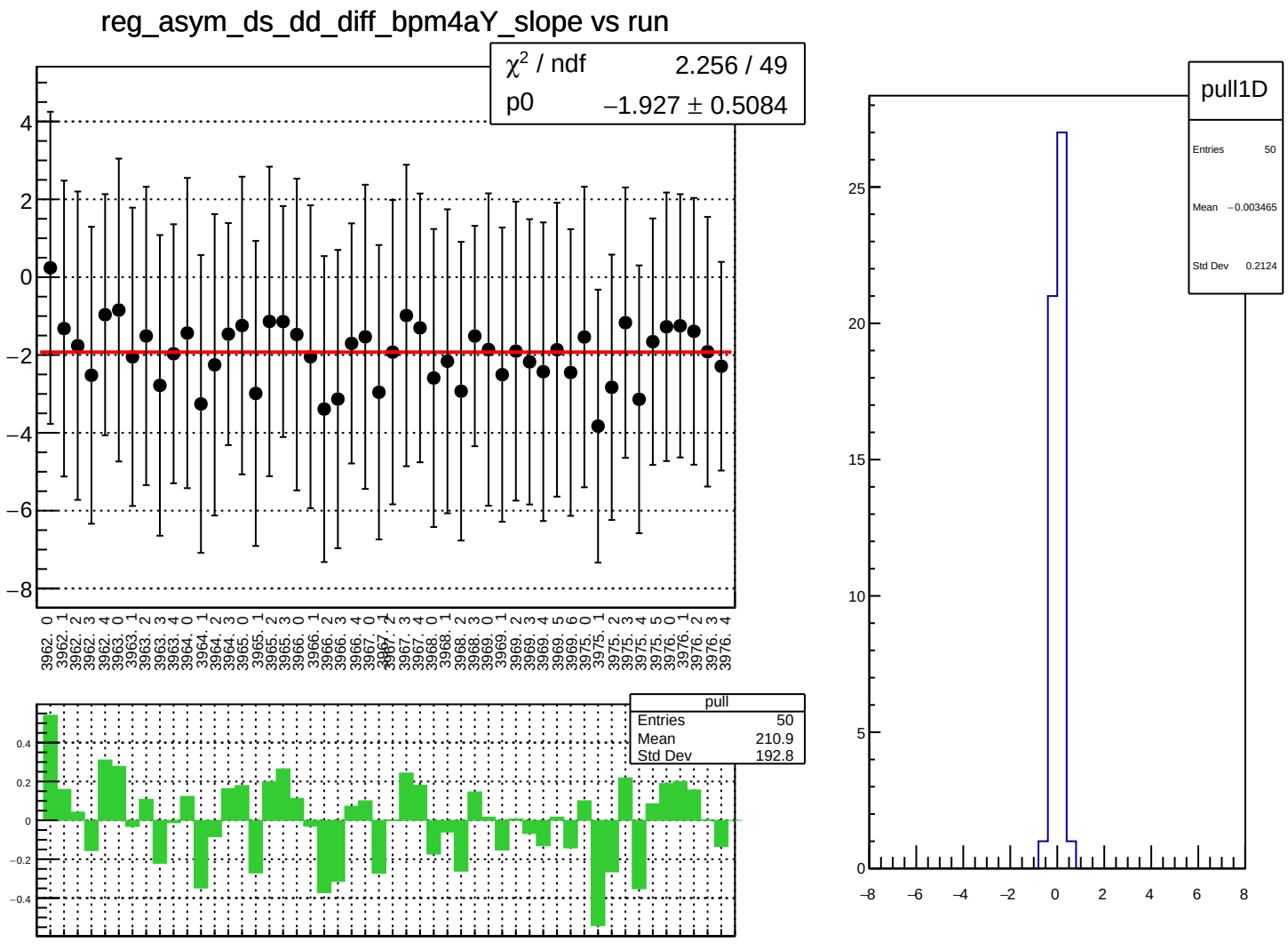

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.83 / 49
p0 3.871 ± 0.5004
pull
Entries 50
Mean 780.4
Std Dev 759.7

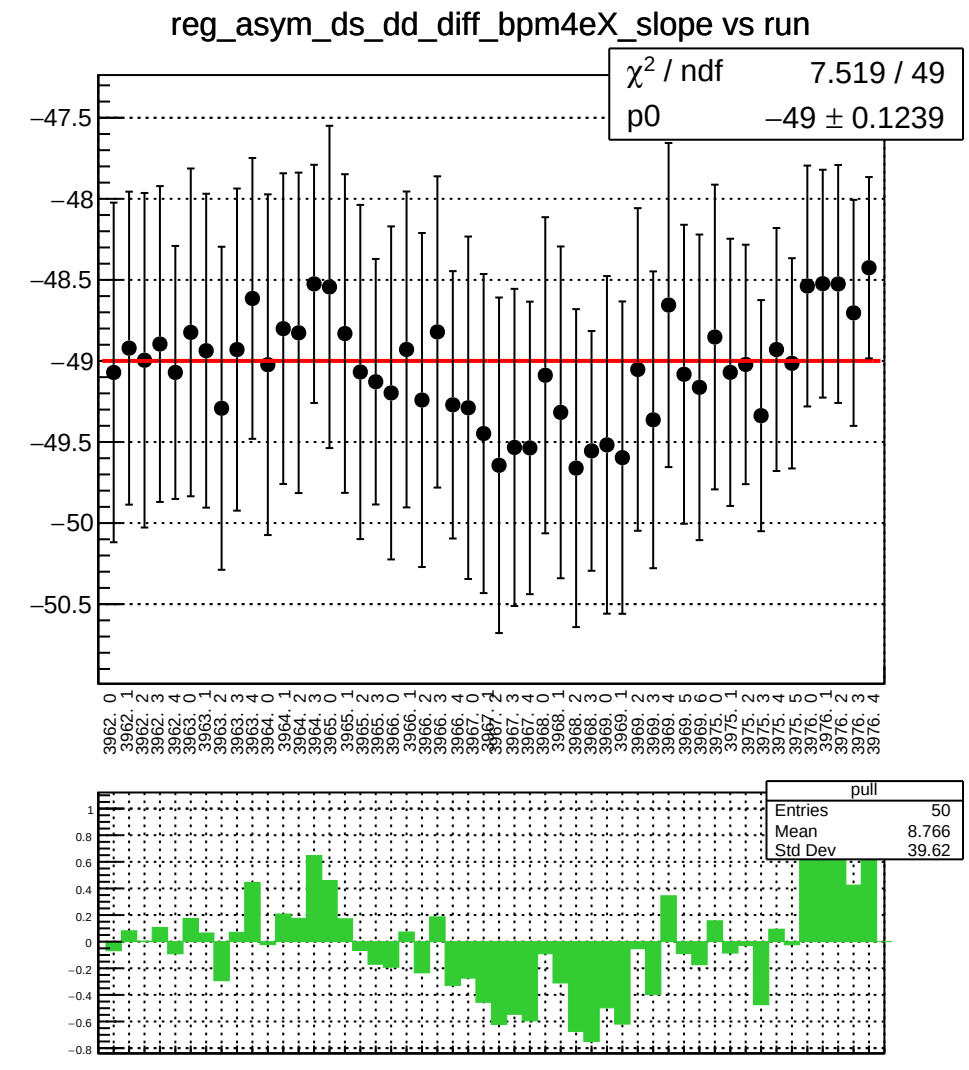

pull1D
Entries 50
Mean −0.003912
Std Dev 0.5066

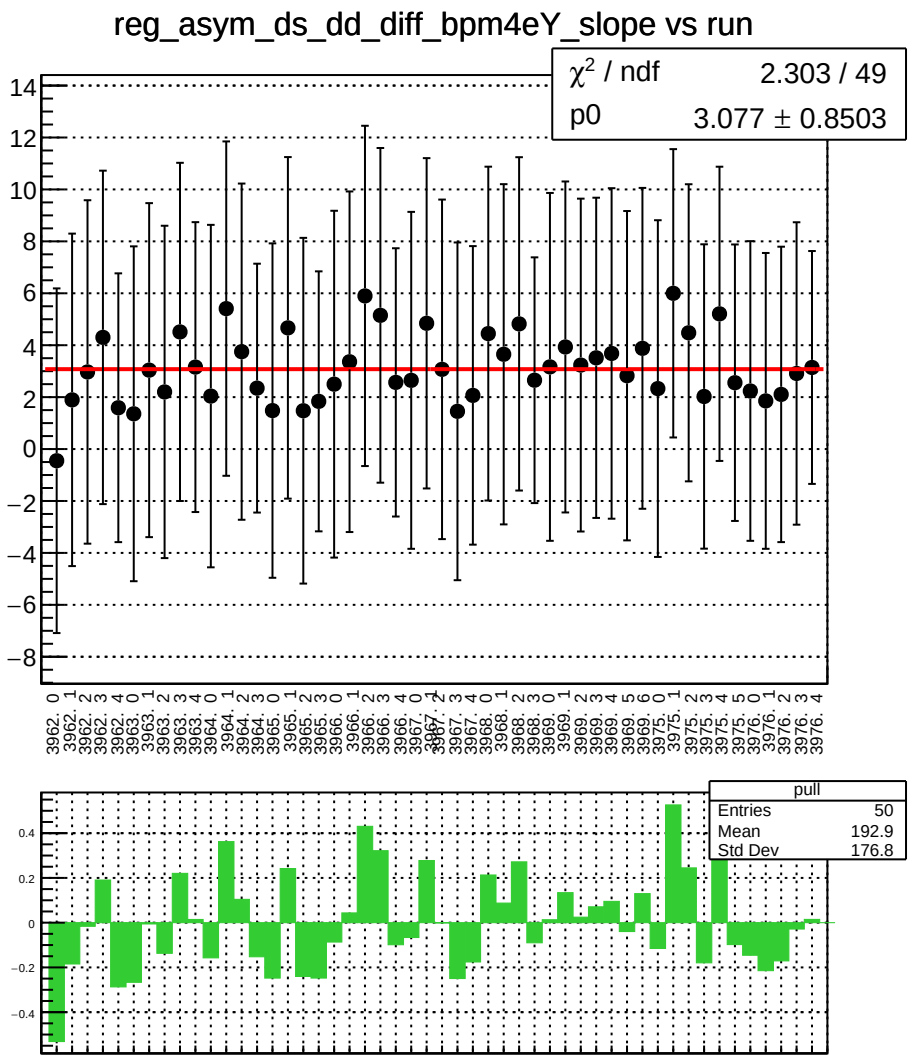

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 37.17 / 49
p0 −51.47 ± 0.08335
pull
Entries 50
Mean 279.3
Std Dev 247.9
pull1D
Entries 50
Mean 0.01996
Std Dev 0.8619

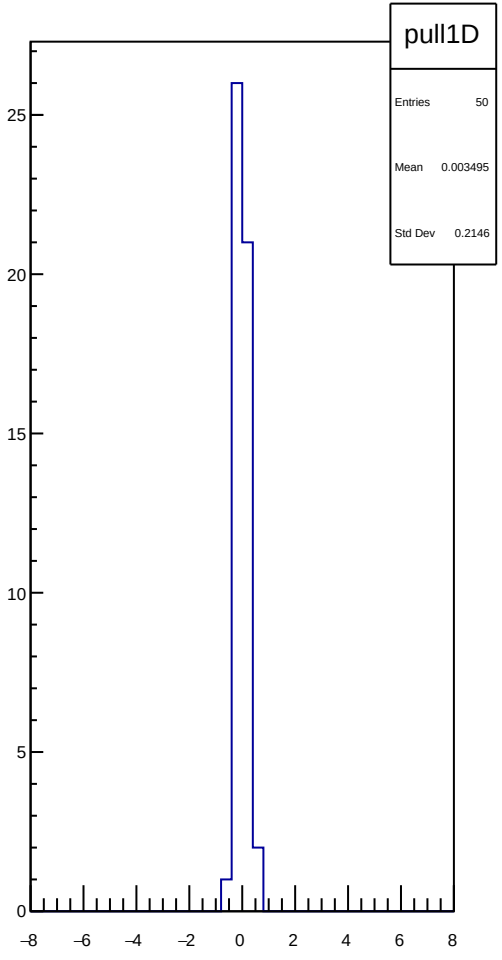

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.028 / 49
p0 25.23 ± 0.7248
pull
Entries 50
Mean −262.7
Std Dev 286.1

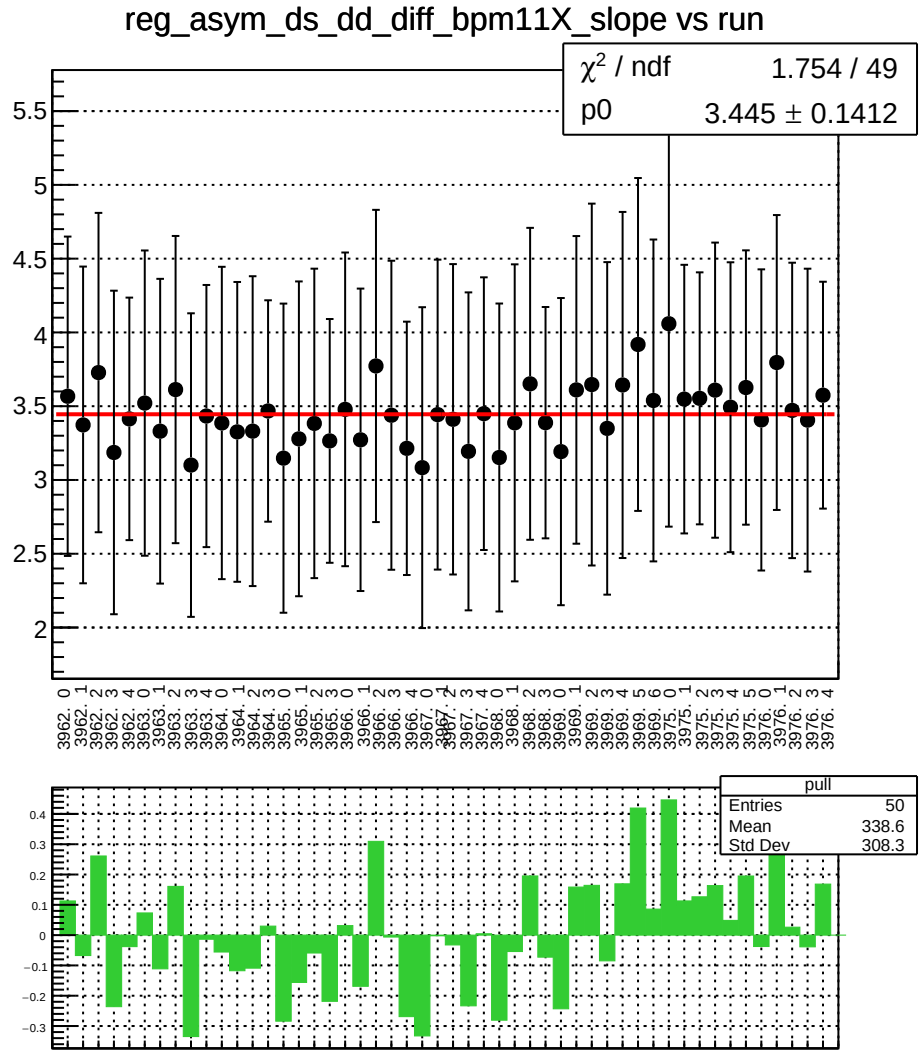

pull1D
Entries 50
Mean −0.004656
Std Dev 0.2838

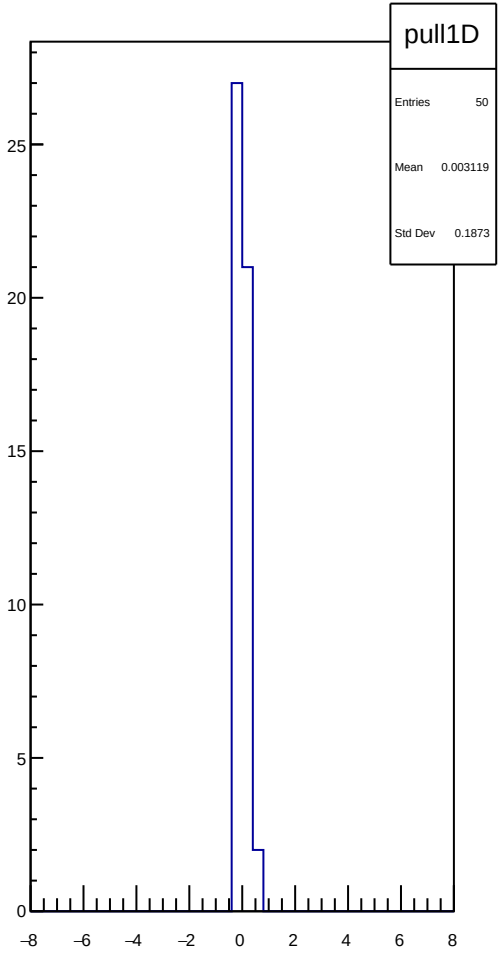

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.256 / 49
p0 −1.927 ± 0.5084
pull
Entries 50
Mean 210.9
Std Dev 192.8
pull1D
Entries 50
Mean −0.003465
Std Dev 0.2124

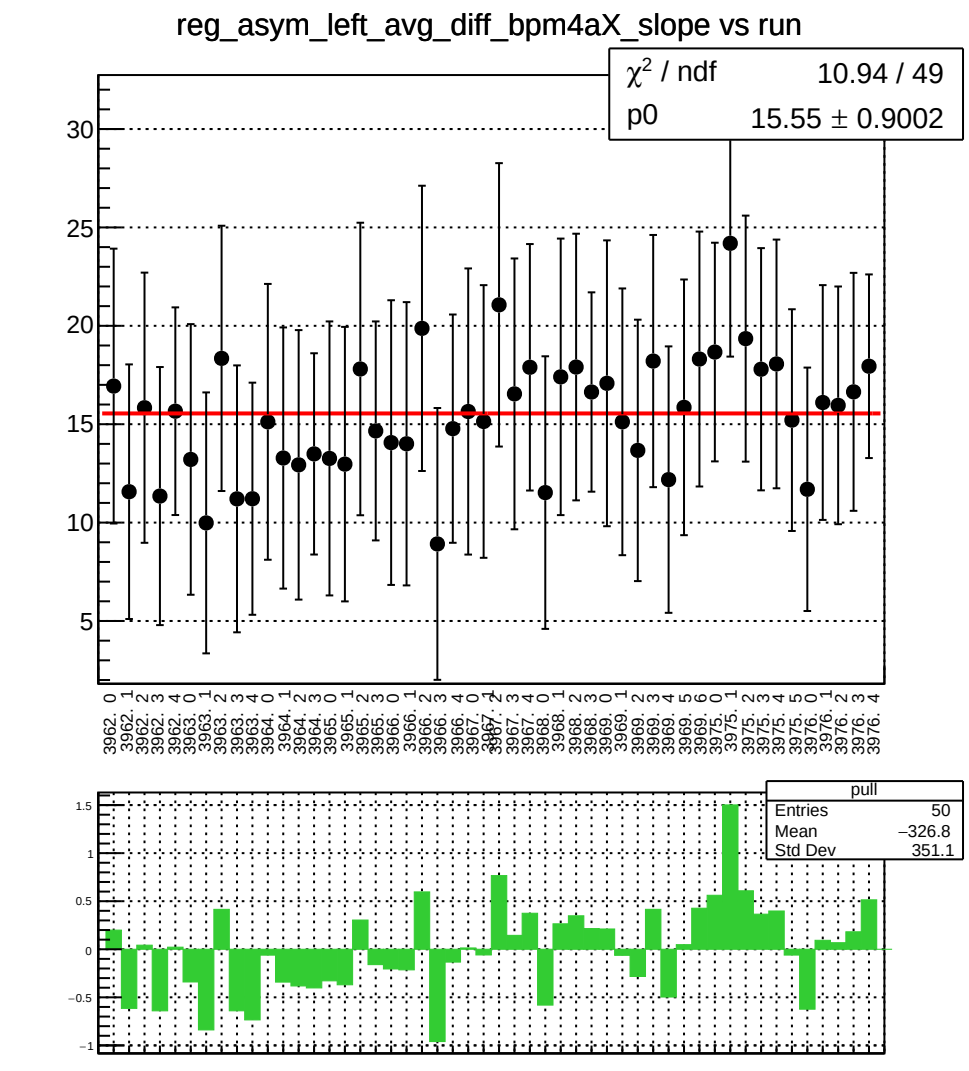

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.519 / 49
p0 −49 ± 0.1239
−47.5
−48
−48.5
−49
−49.5
−50
−50.5
pull
Entries 50
Mean 8.766
Std Dev 39.62
pull1D
Entries 50
Mean −0.02725
Std Dev 0.3868

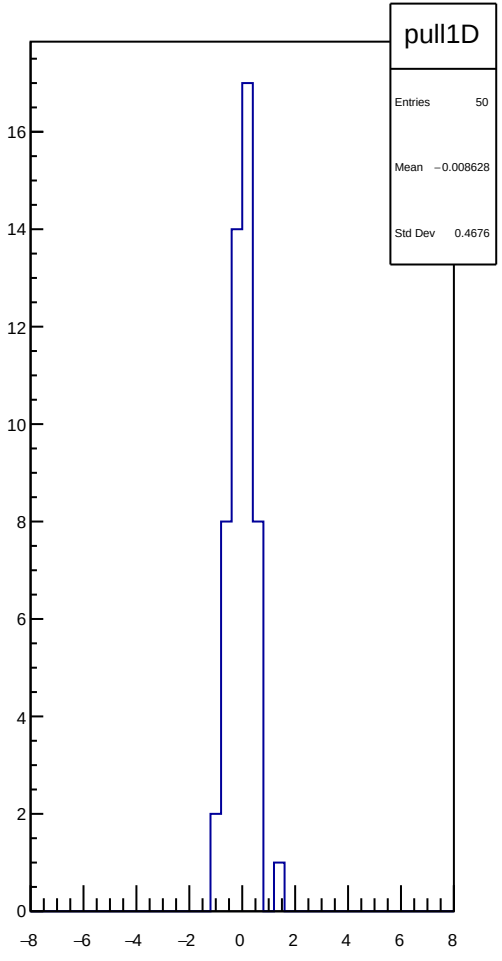

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.303 / 49
p0 3.077 ± 0.8503
pull
Entries 50
Mean 192.9
Std Dev 176.8

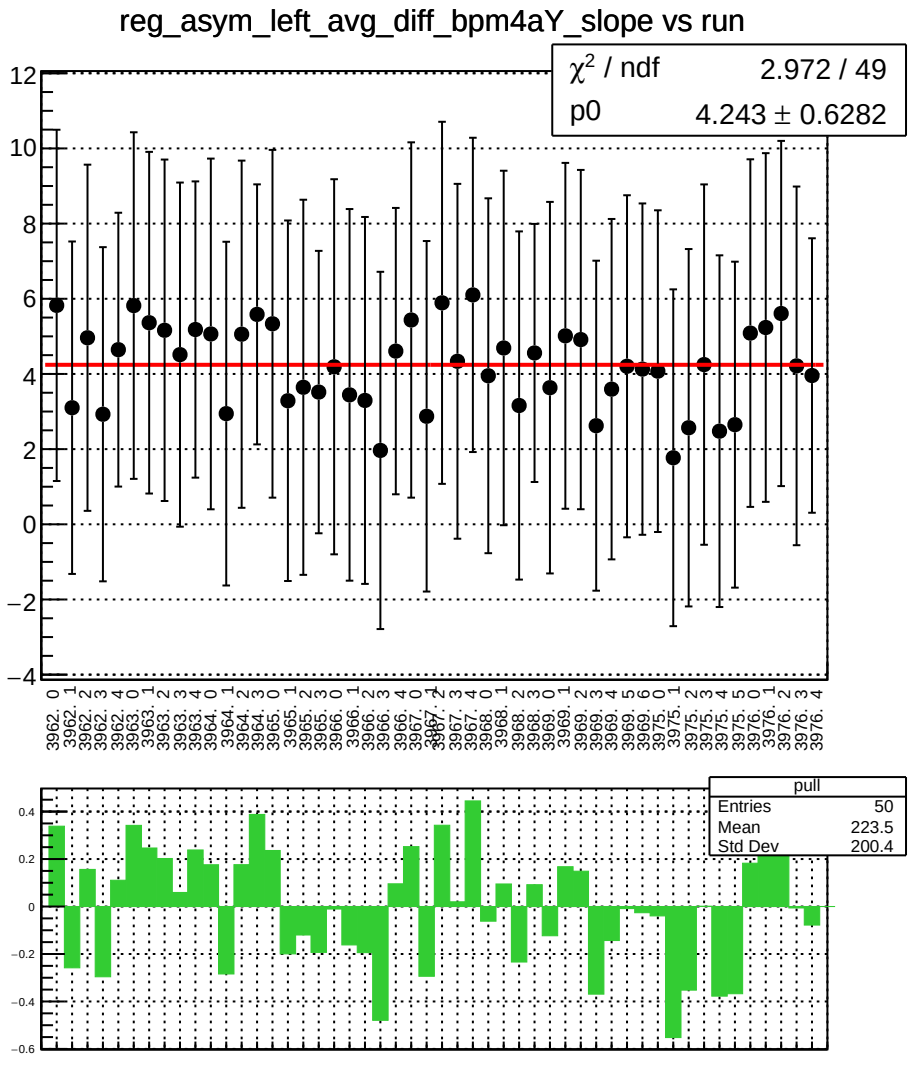

pull1D
Entries 50
Mean 0.003495
Std Dev 0.2146

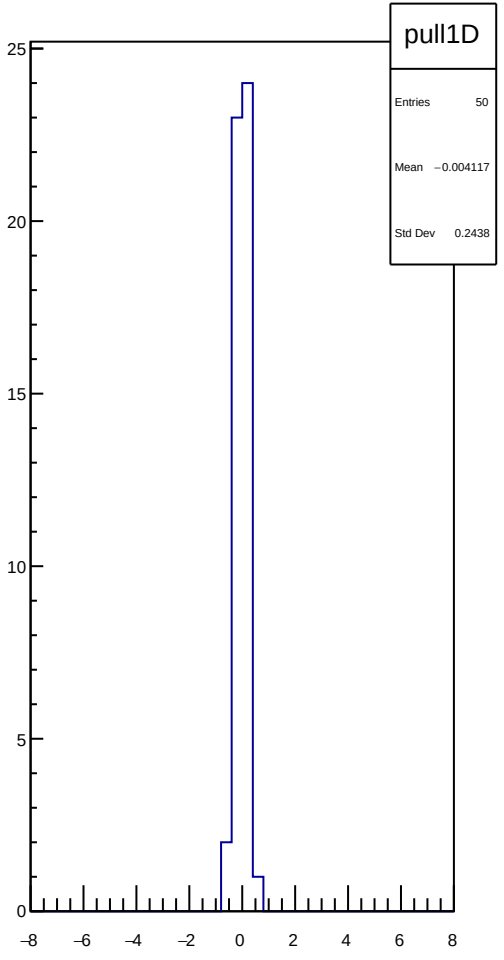

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 1.754 / 49
p0 3.445 ± 0.1412
pull
Entries 50
Mean 338.6
Std Dev 308.3

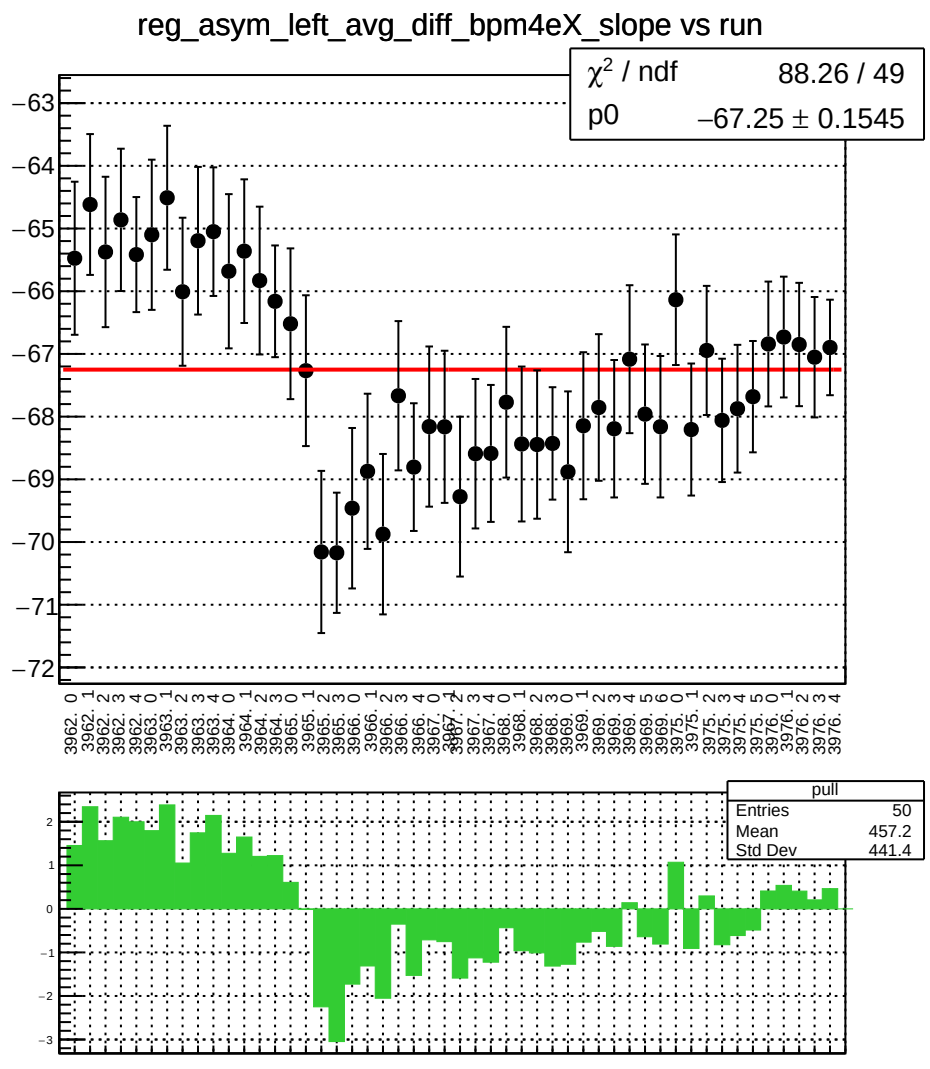

pull1D
Entries 50
Mean 0.003119
Std Dev 0.1873

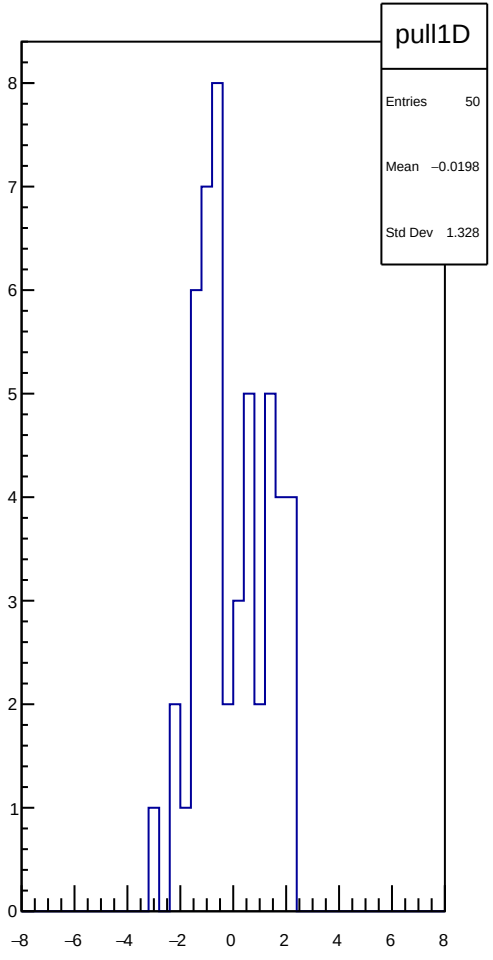

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.94 / 49
p0 15.55 ± 0.9002
pull
Entries 50
Mean −326.8
Std Dev 351.1

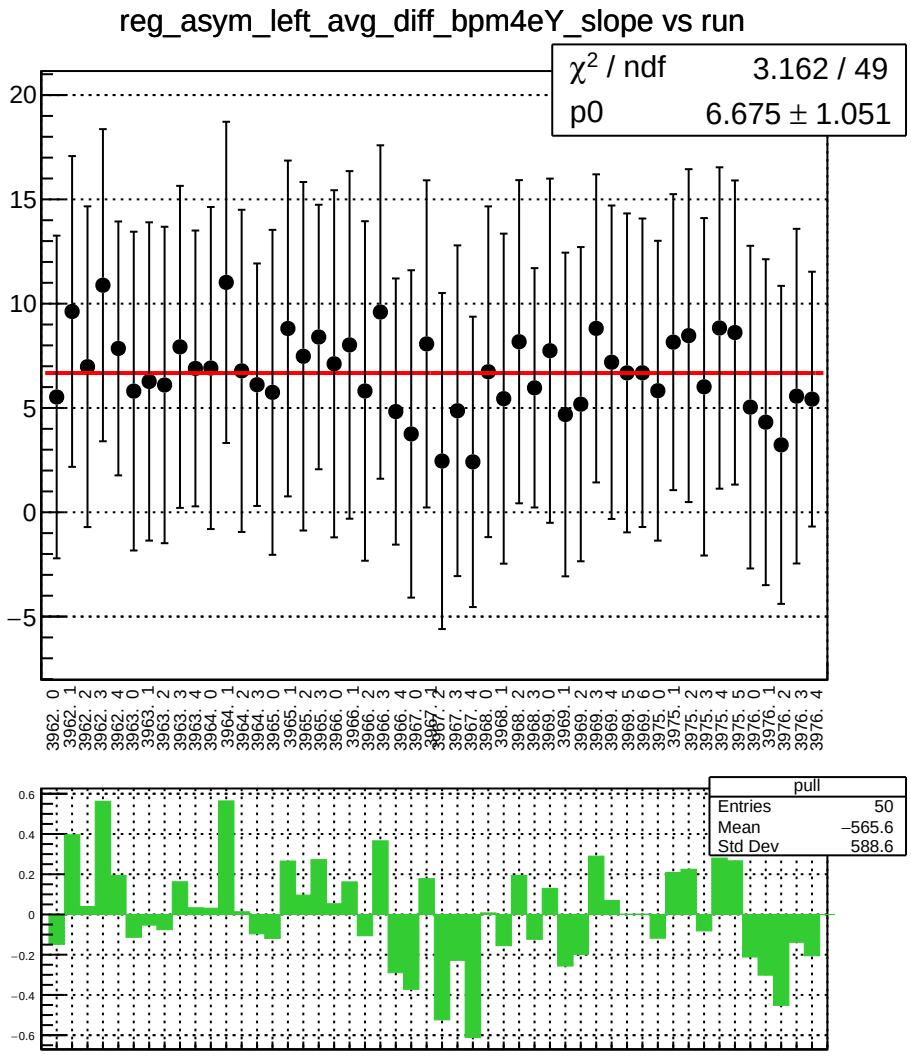

pull1D
Entries 50
Mean −0.008628
Std Dev 0.4676

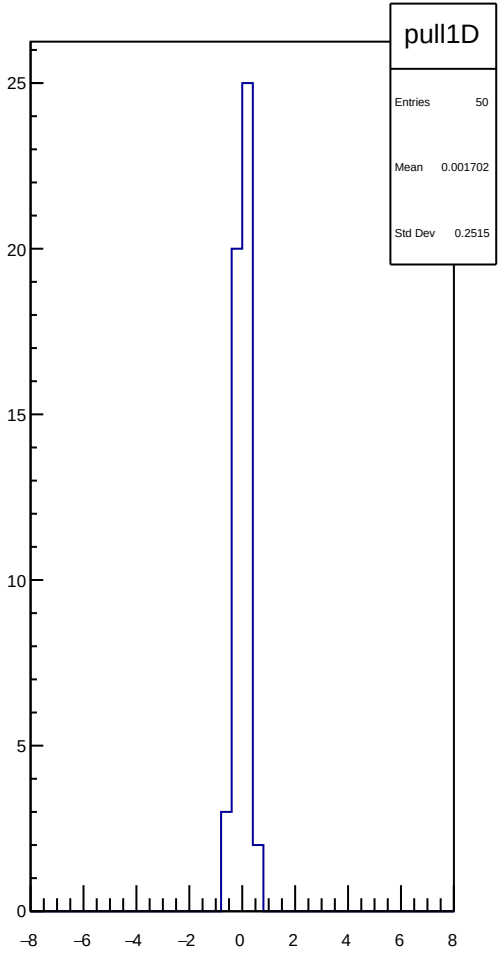

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.972 / 49
p0 4.243 ± 0.6282
pull
Entries 50
Mean 223.5
Std Dev 200.4

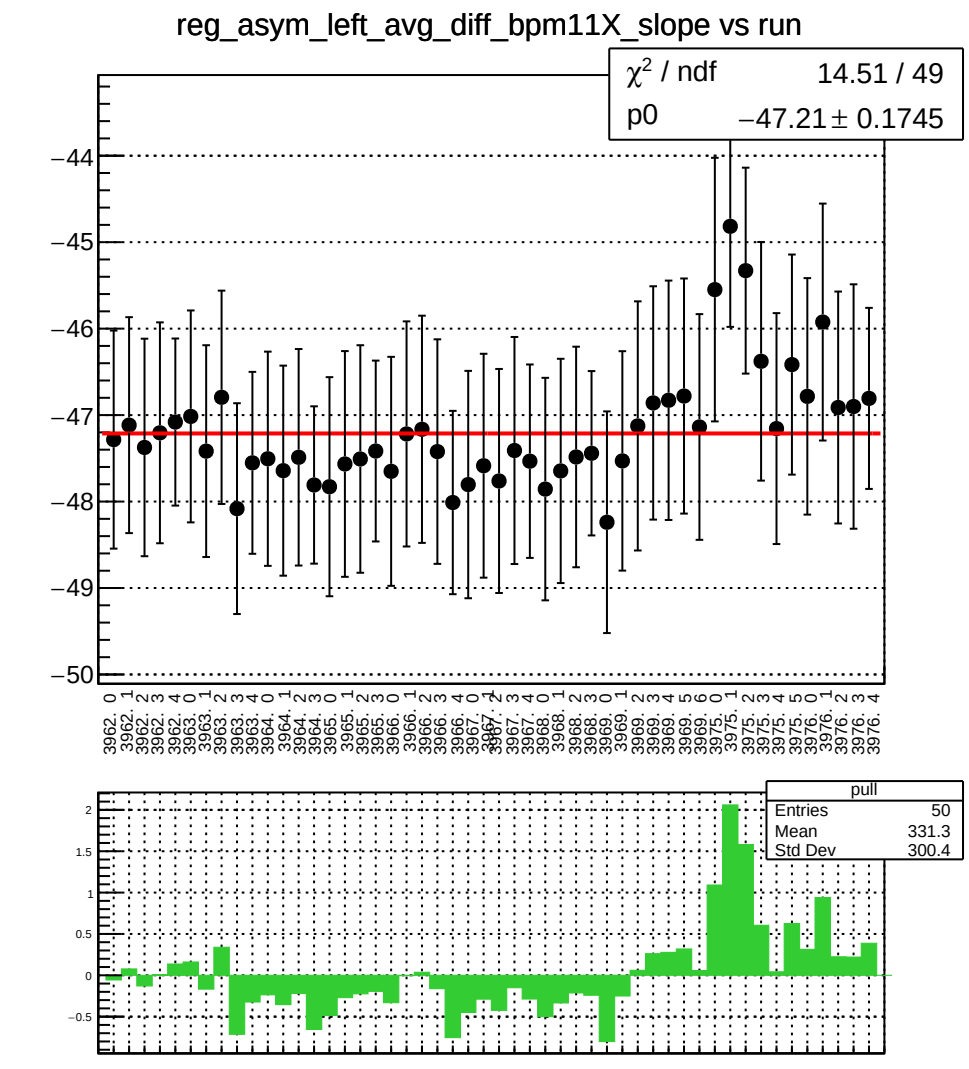

pull1D
Entries 50
Mean −0.004117
Std Dev 0.2438

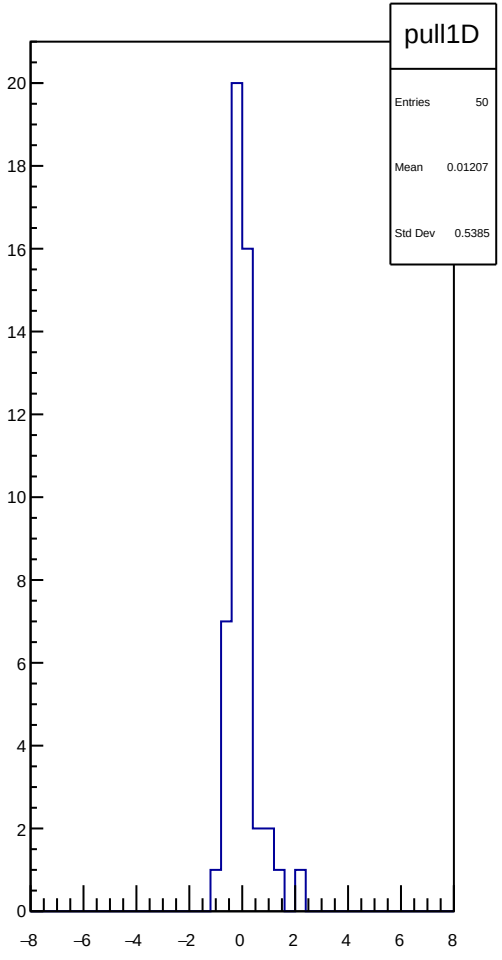

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.26 / 49
p0 −67.25 ± 0.1545
pull
Entries 50
Mean 457.2
Std Dev 441.4

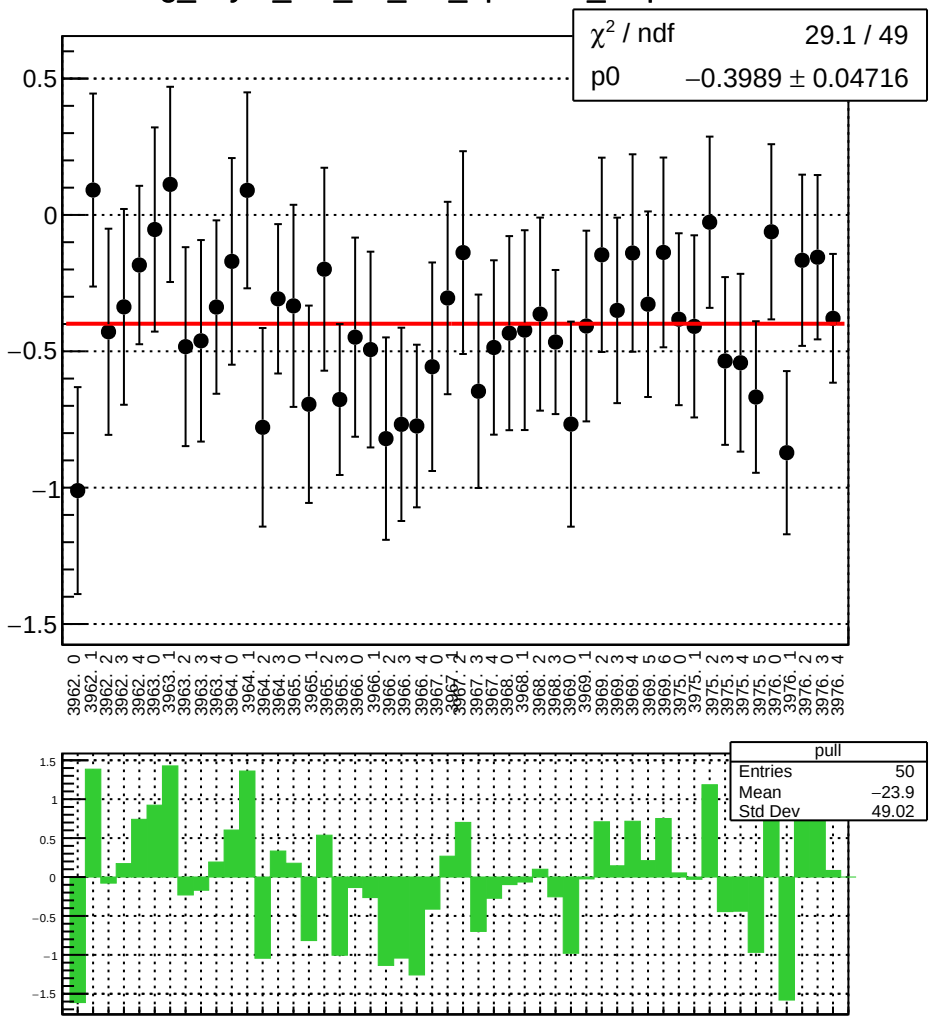

pull1D
Entries 50
Mean −0.0198
Std Dev 1.328

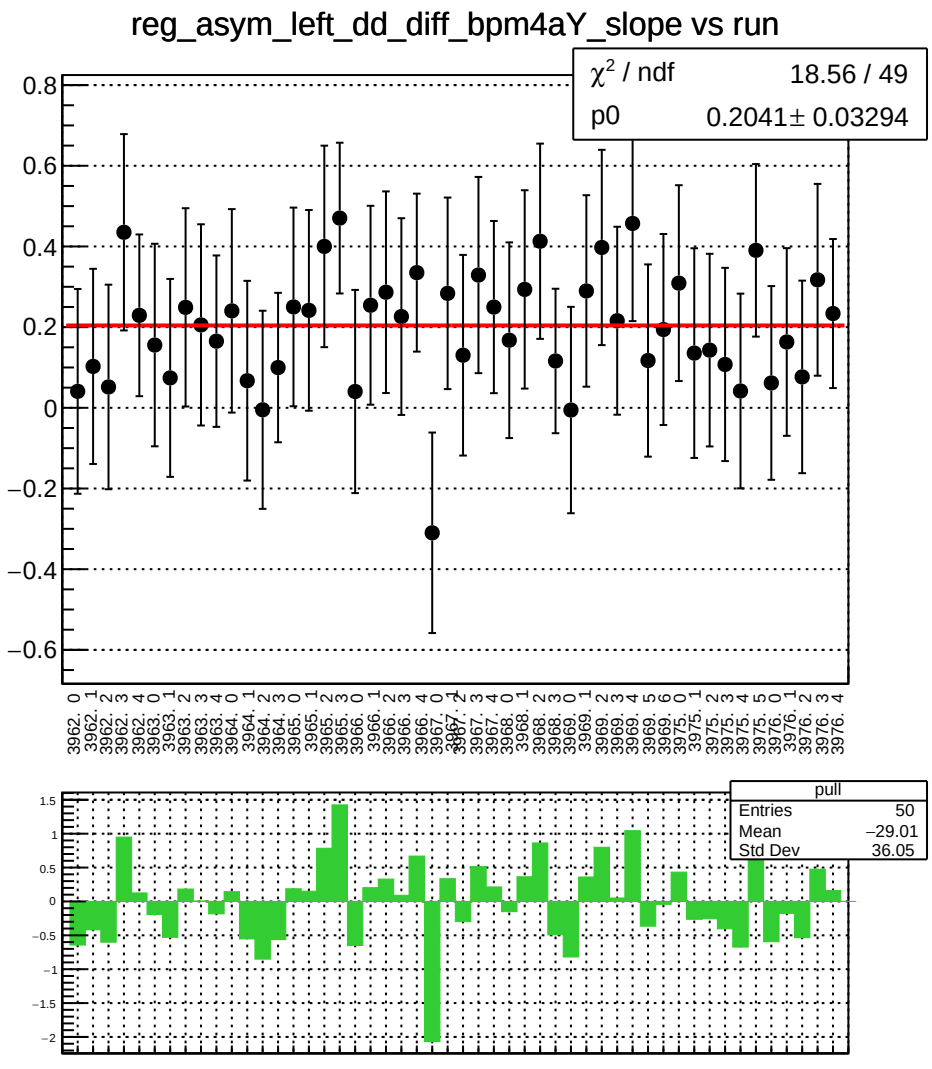

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.162 / 49
p0 6.675 ± 1.051
pull
Entries 50
Mean −565.6
Std Dev 588.6

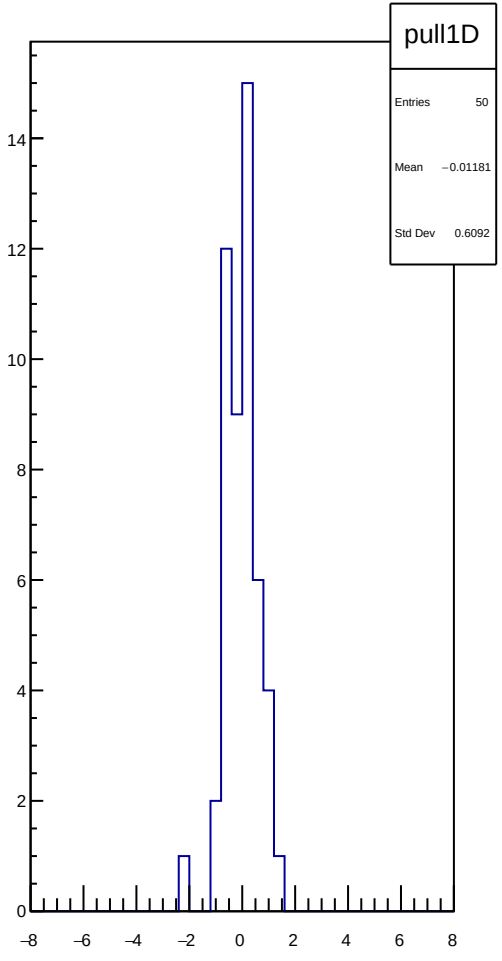

pull1D
Entries 50
Mean 0.001702
Std Dev 0.2515

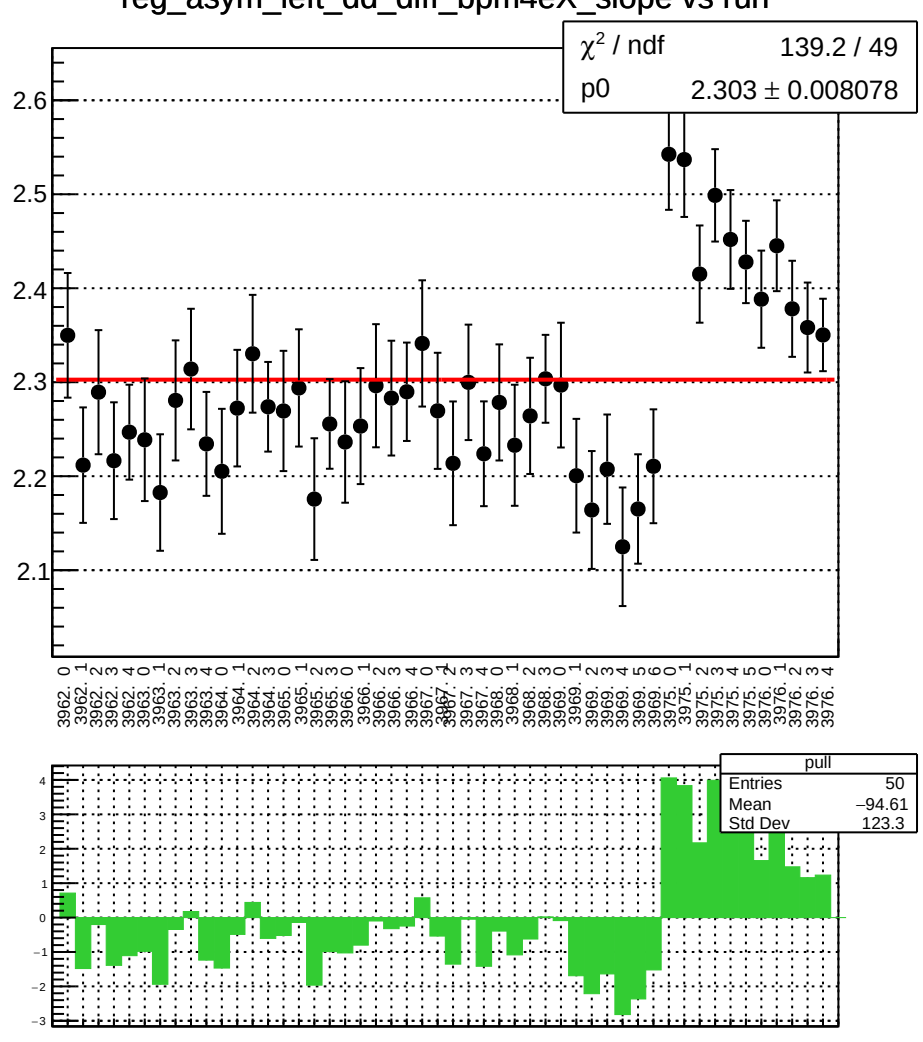

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 14.51 / 49
p0 −47.21 ± 0.1745
pull
Entries 50
Mean 331.3
Std Dev 300.4

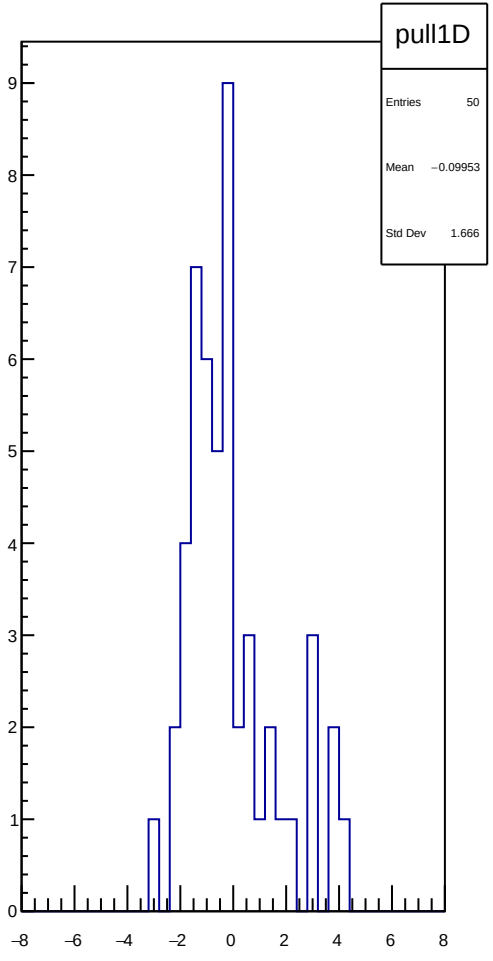

pull1D
Entries 50
Mean 0.01207
Std Dev 0.5385

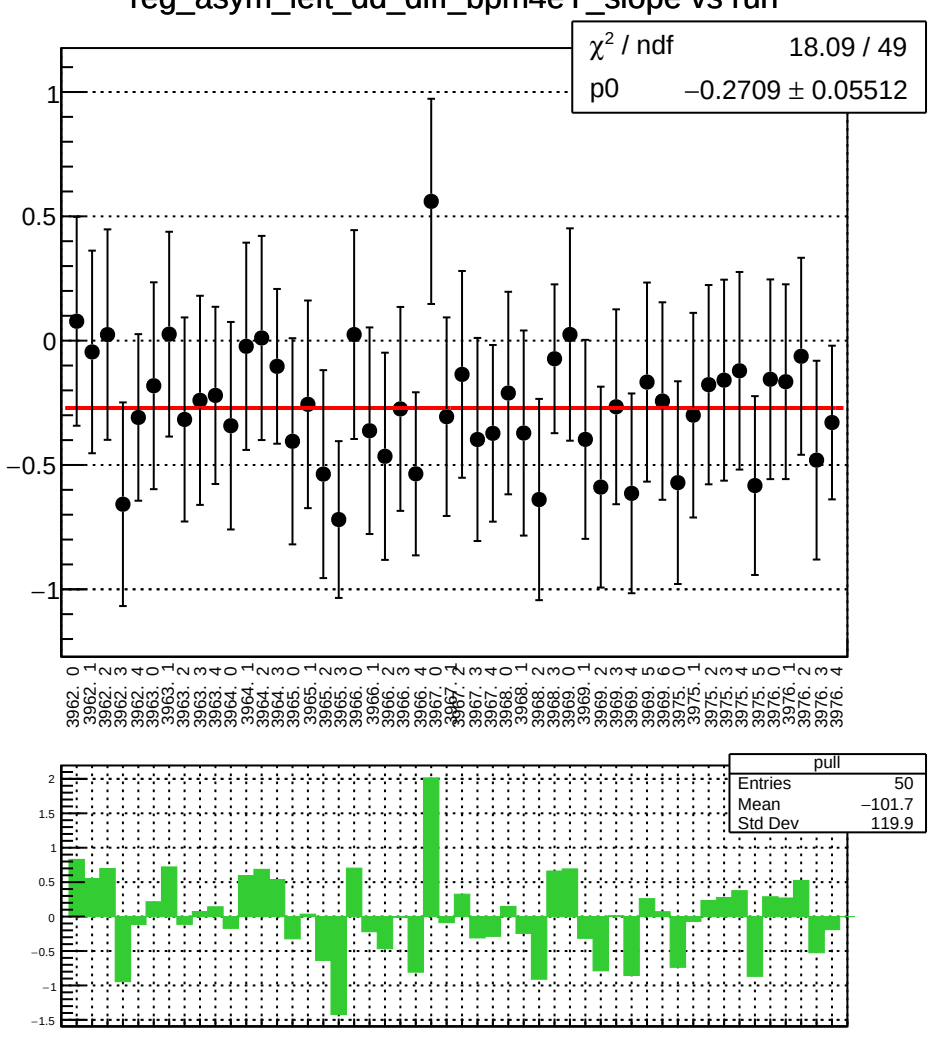

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 29.1 / 49
p0 −0.3989 ± 0.04716
pull
Entries 50
Mean −23.9
Std Dev 49.02
pull1D
Entries 50
Mean 0.006568
Std Dev 0.7629

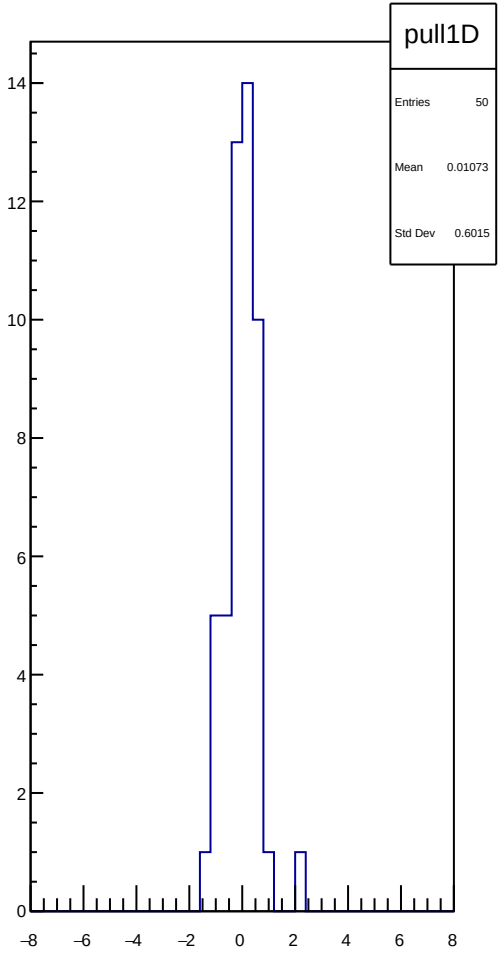

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.56 / 49
p0 0.2041± 0.03294
pull
Entries 50
Mean −29.01
Std Dev 36.05

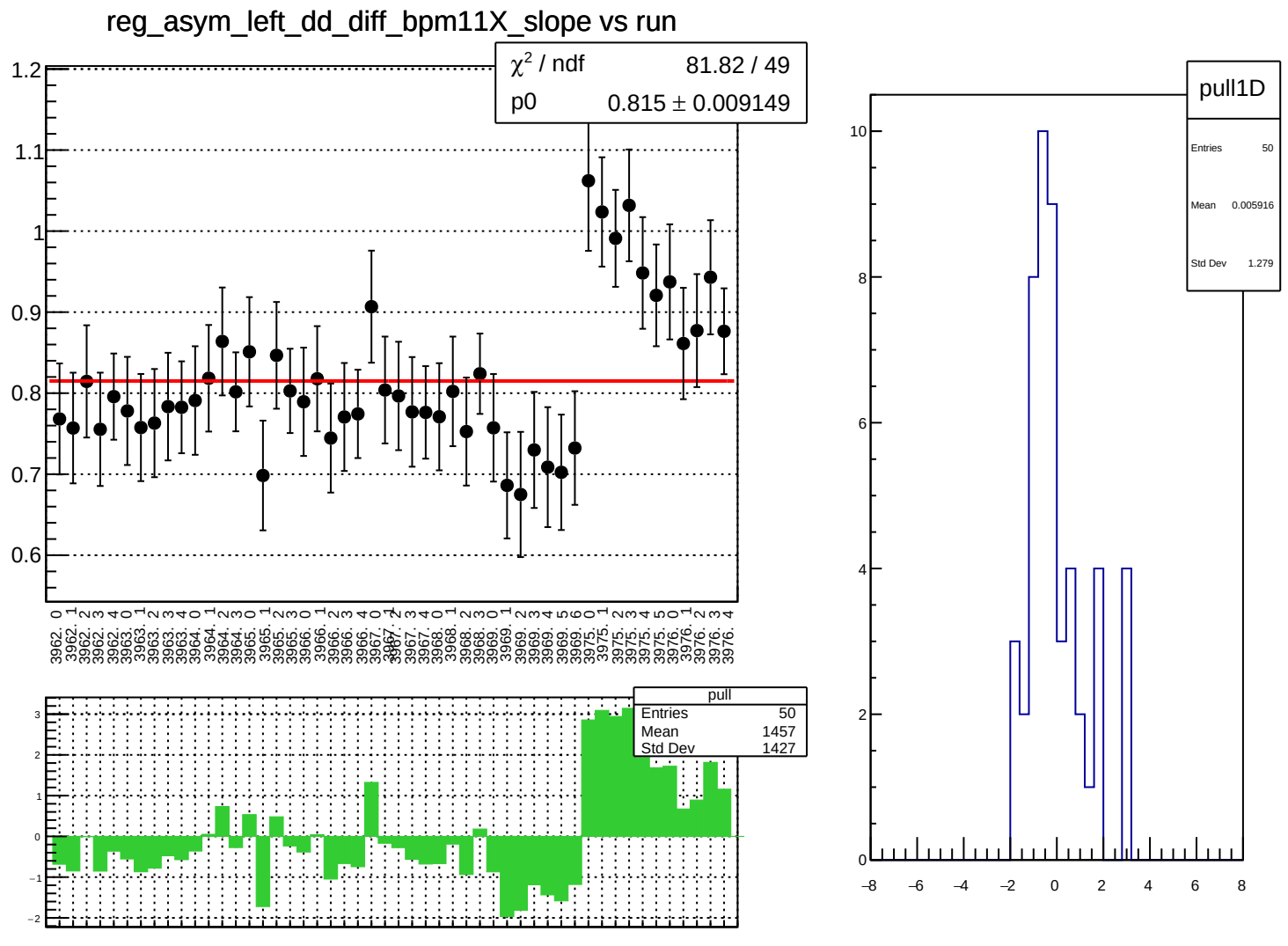

pull1D
Entries 50
Mean −0.01181
Std Dev 0.6092

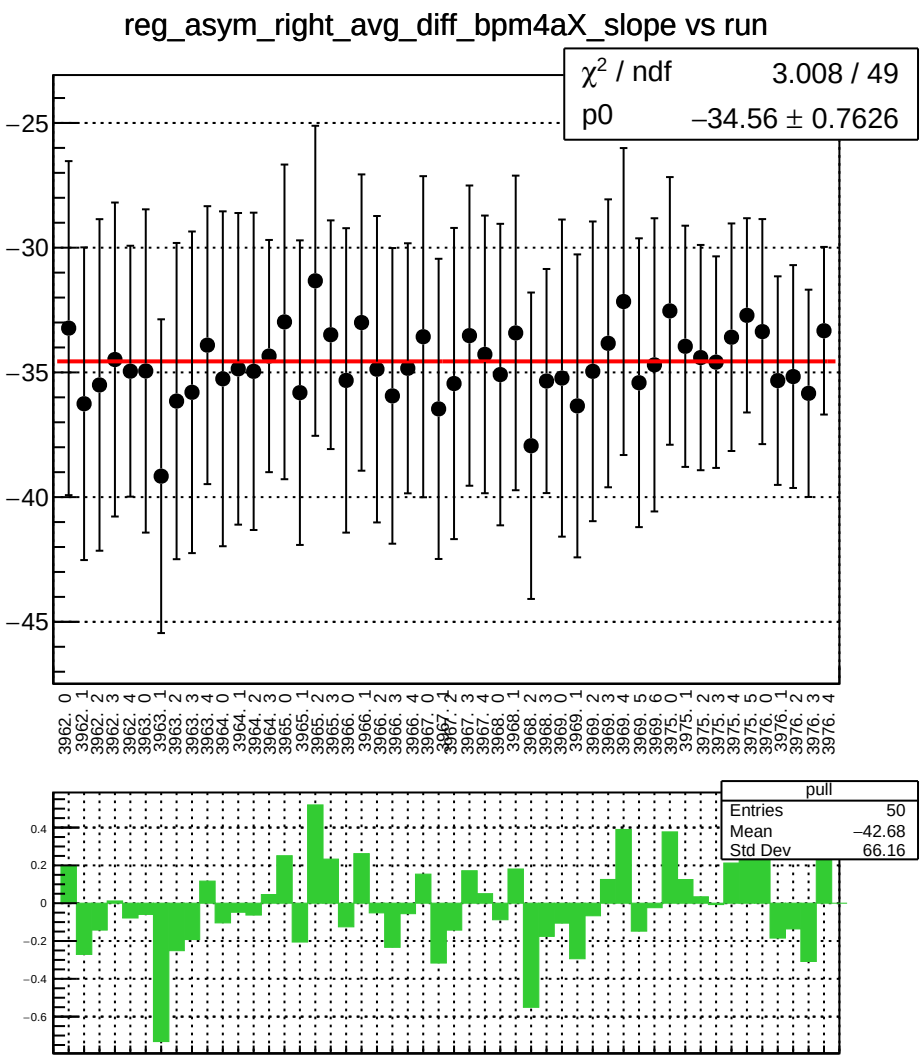

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 139.2 / 49
p0 2.303 ± 0.008078
pull
Entries 50
Mean −94.61
Std Dev 123.3

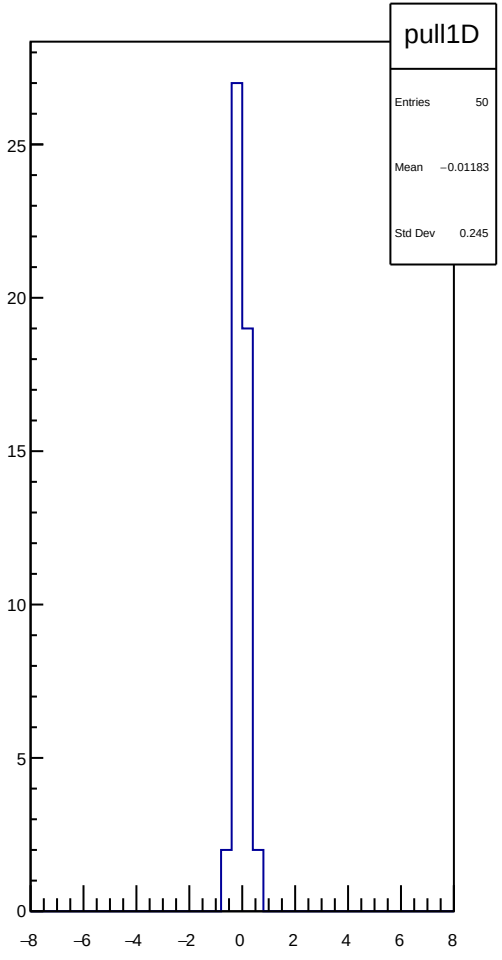

pull1D
Entries 50
Mean −0.09953
Std Dev 1.666

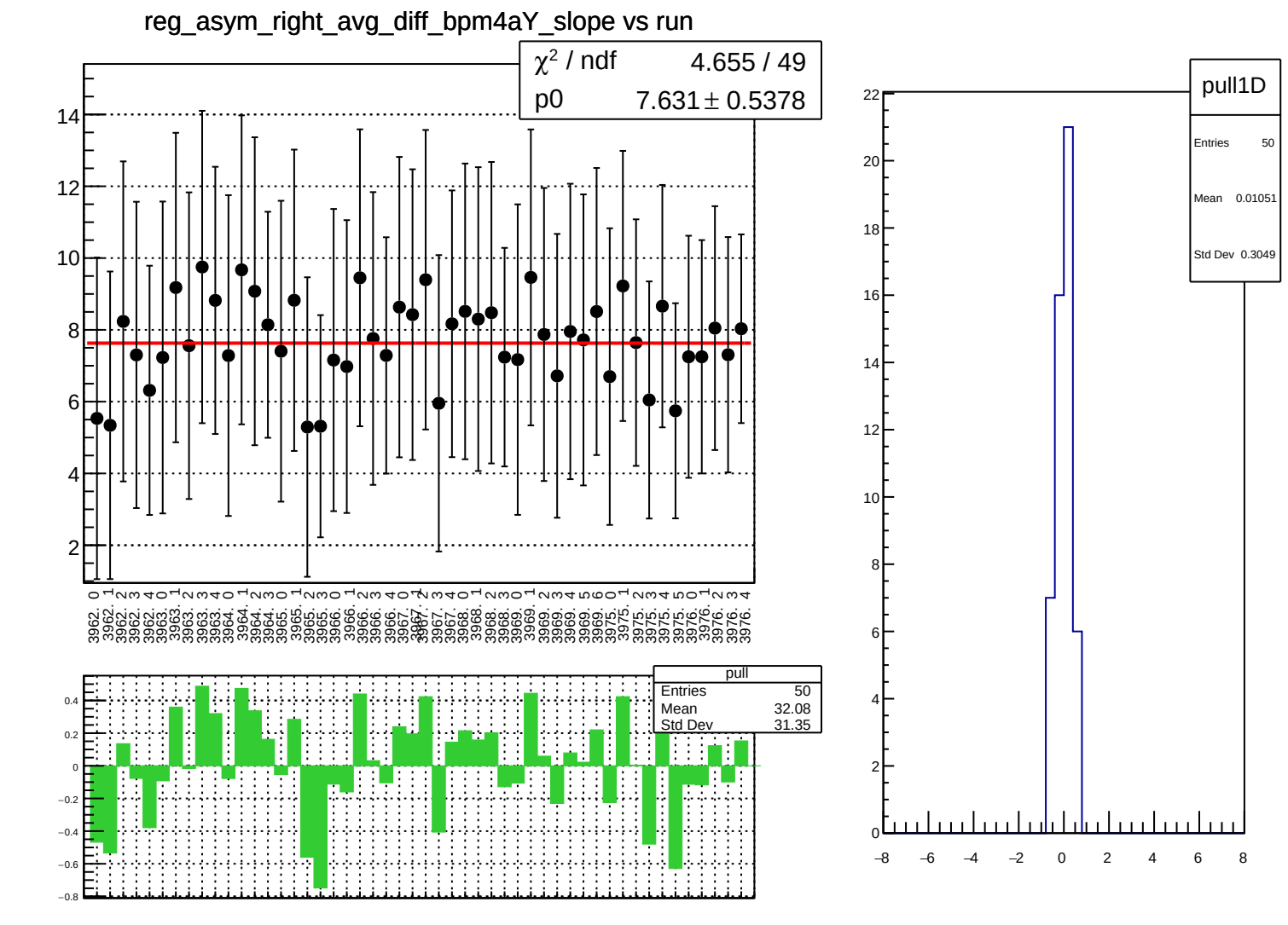

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.09 / 49
p0 −0.2709 ± 0.05512
pull
Entries 50
Mean −101.7
Std Dev 119.9

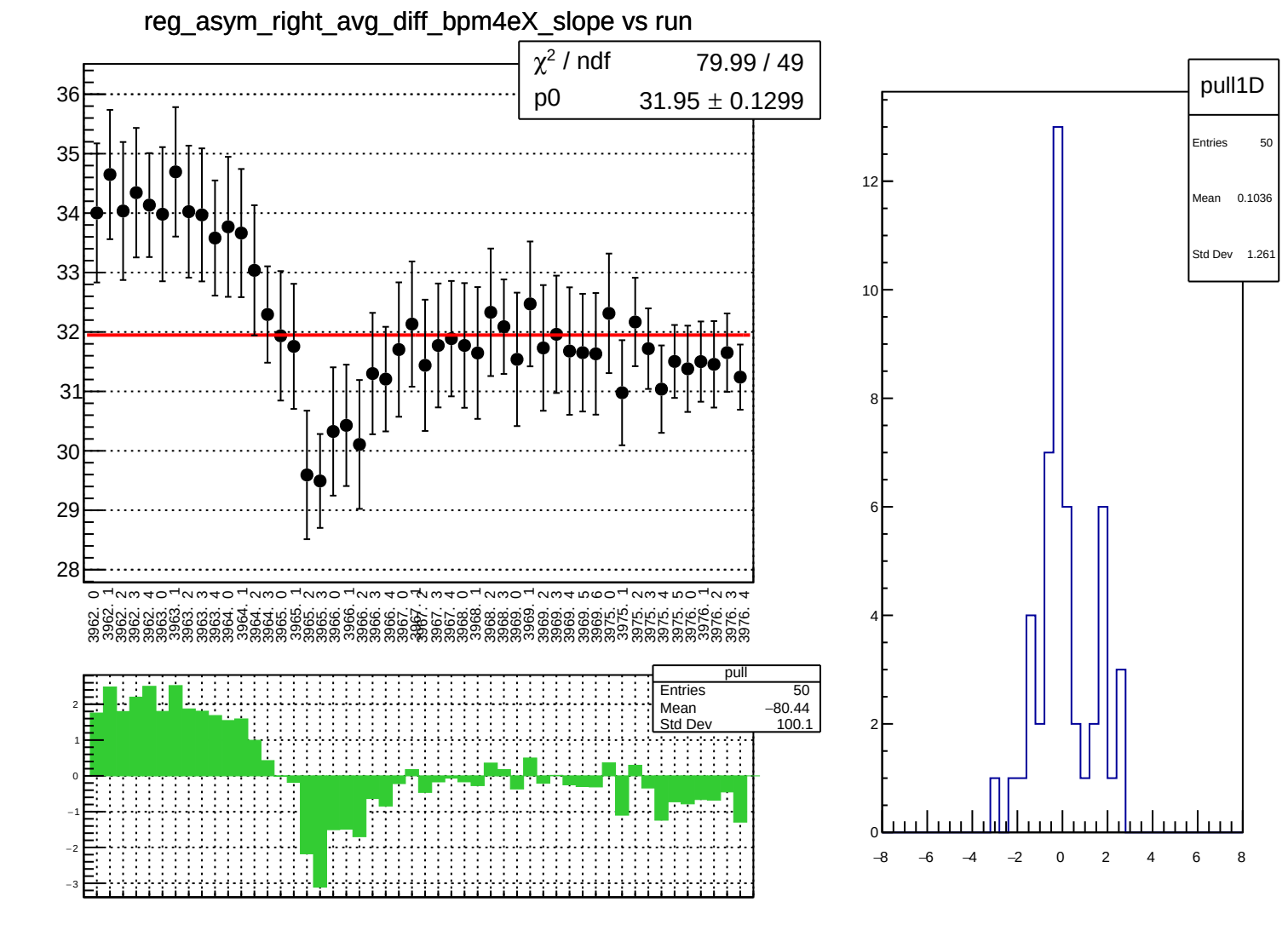

pull1D
Entries 50
Mean 0.01073
Std Dev 0.6015

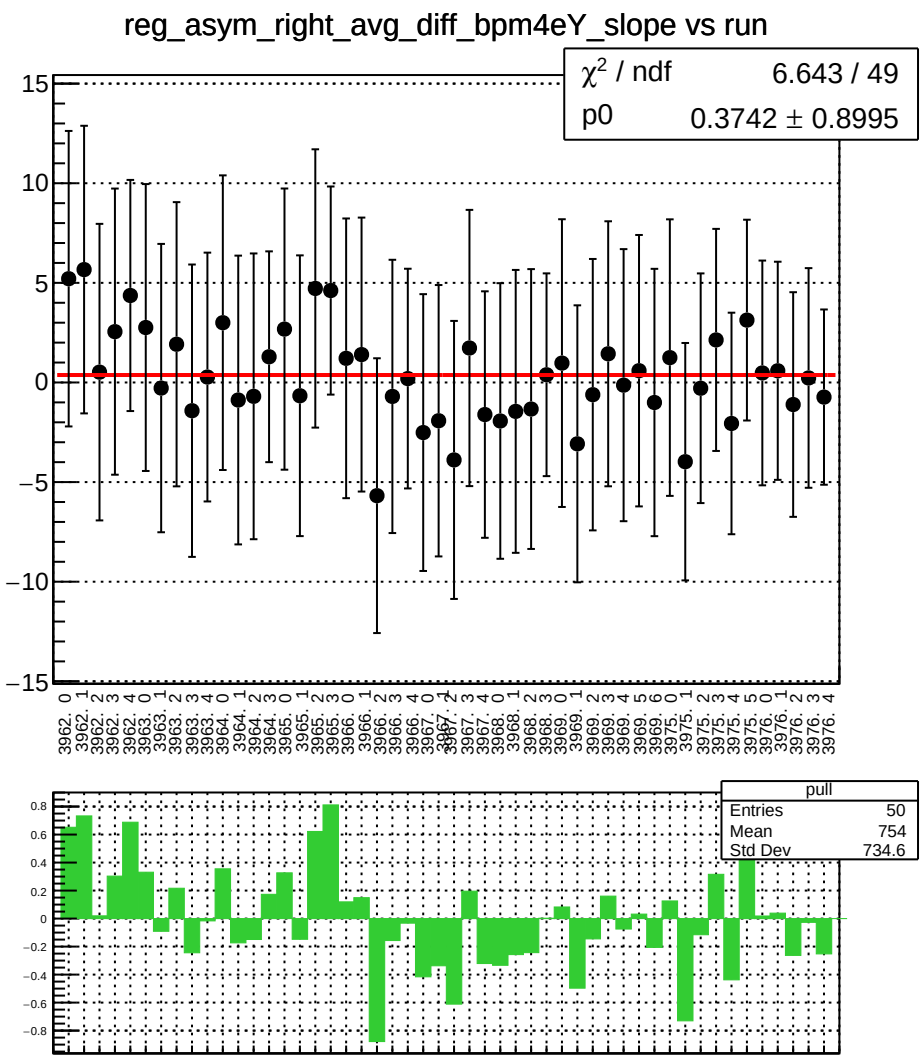

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 81.82 / 49
p0 0.815 ± 0.009149
pull
Entries 50
Mean 1457
Std Dev 1427
pull1D
Entries 50
Mean 0.005916
Std Dev 1.279

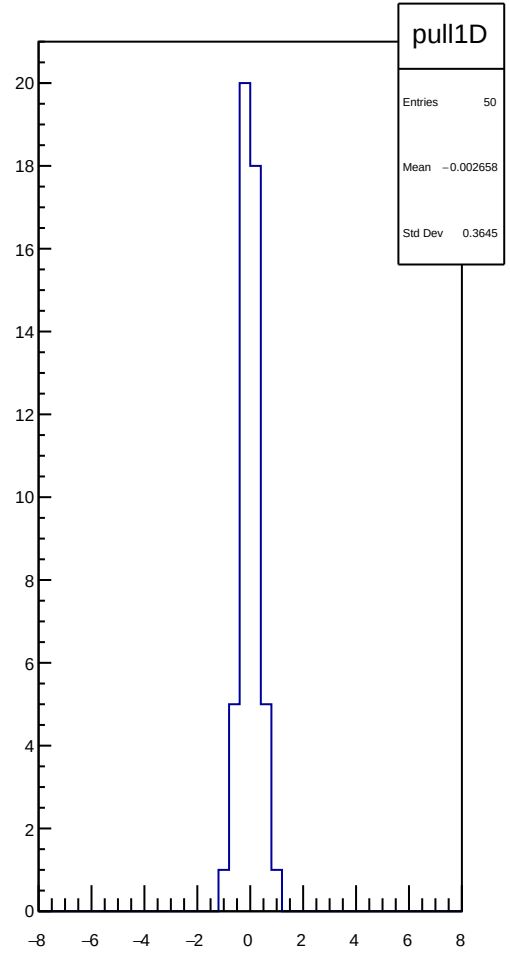

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.008 / 49
p0 −34.56 ± 0.7626
pull
Entries 50
Mean −42.68
Std Dev 66.16

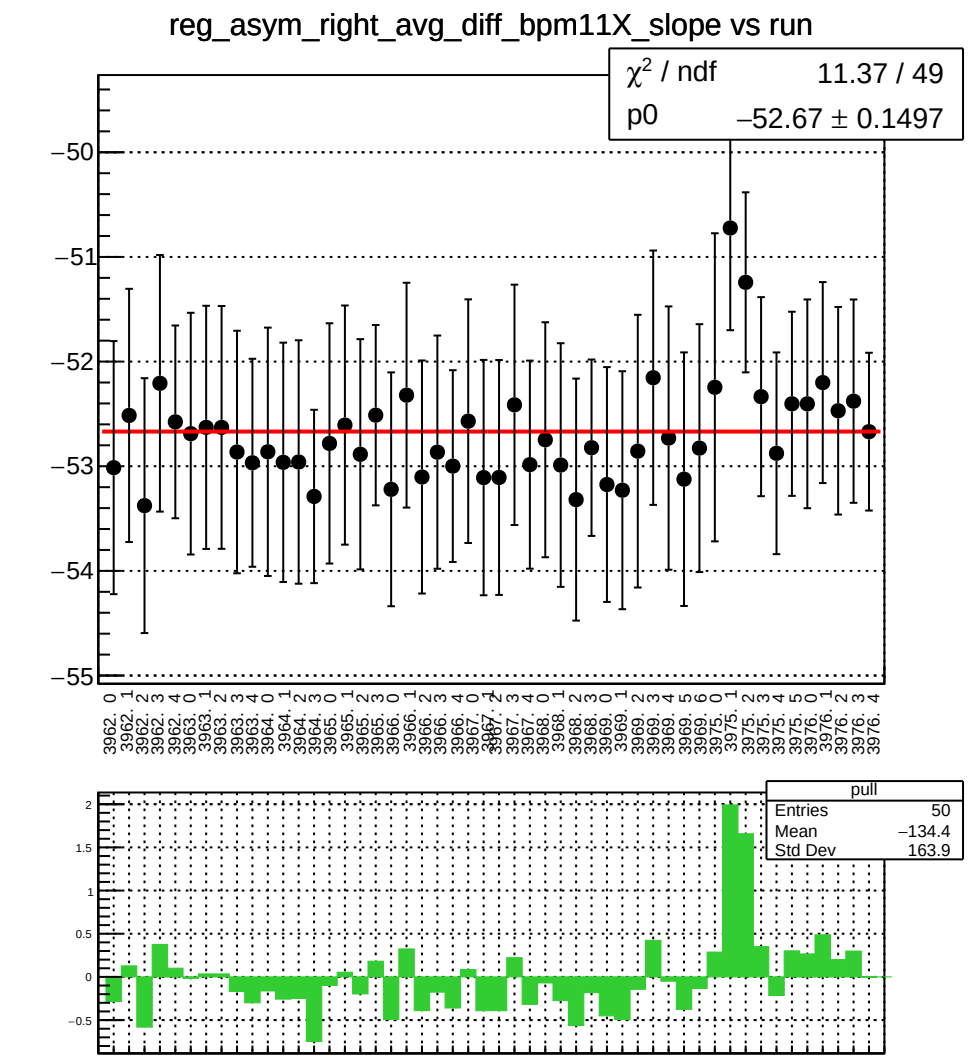

pull1D
Entries 50
Mean −0.01183
Std Dev 0.245

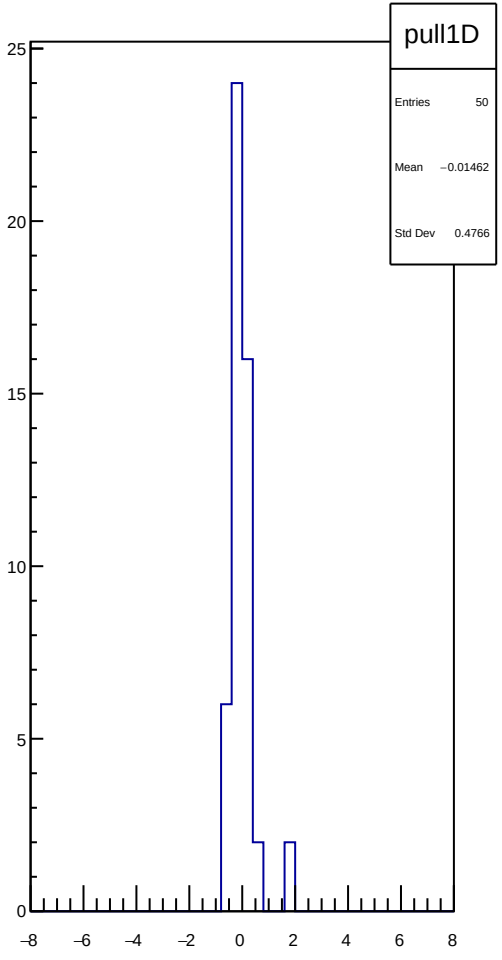

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.655 / 49
p0 7.631 ± 0.5378
pull
Entries 50
Mean 32.08
Std Dev 31.35
pull1D
Entries 50
Mean 0.01051
Std Dev 0.3049

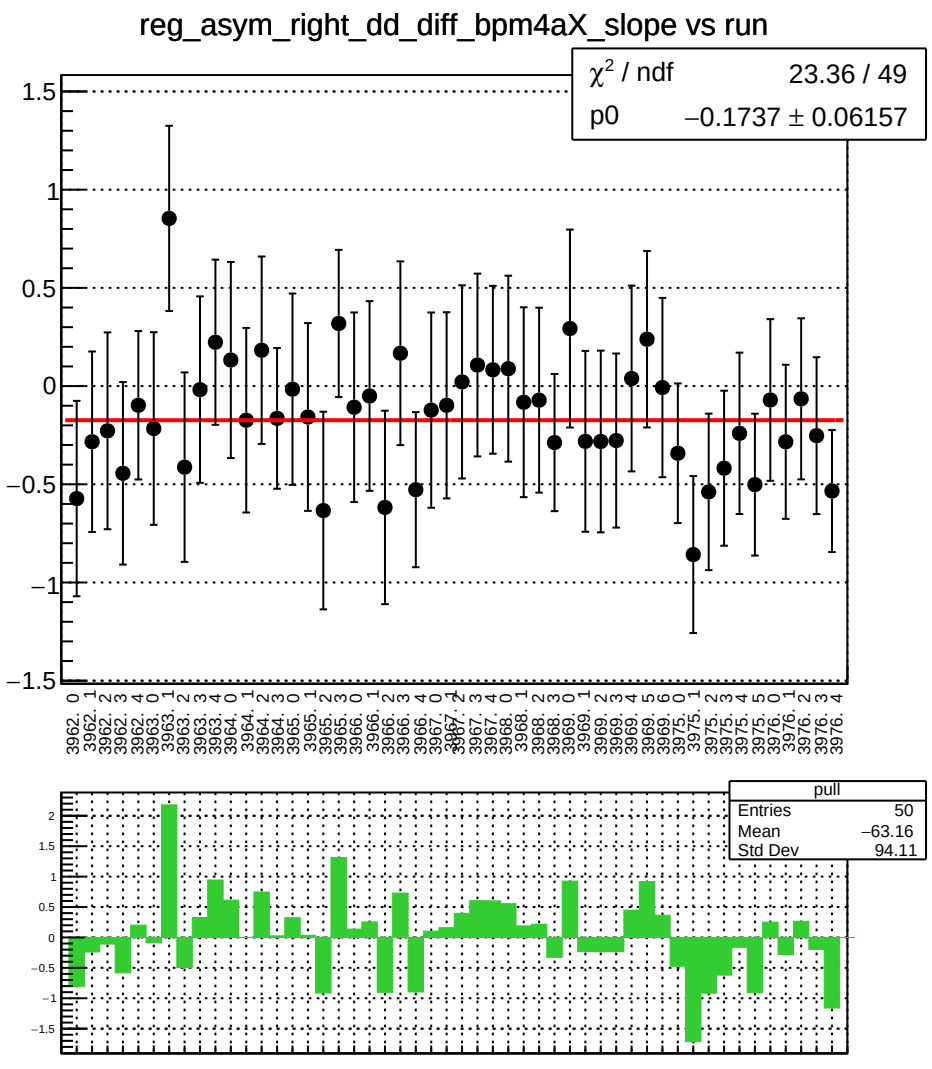

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.99 / 49
p0 31.95 ± 0.1299
pull
Entries 50
Mean −80.44
Std Dev 100.1
pull1D
Entries 50
Mean 0.1036
Std Dev 1.261

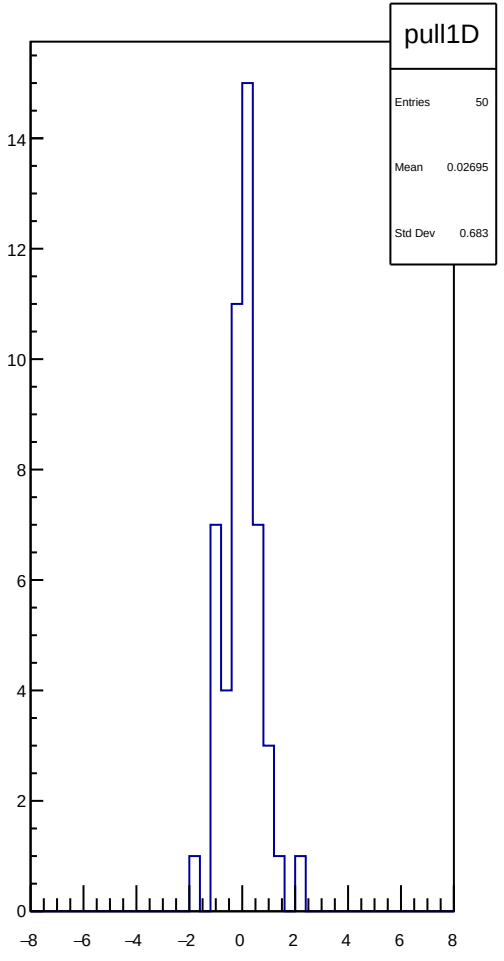

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.643 / 49
p0 0.3742 ± 0.8995
pull
Entries 50
Mean 754
Std Dev 734.6

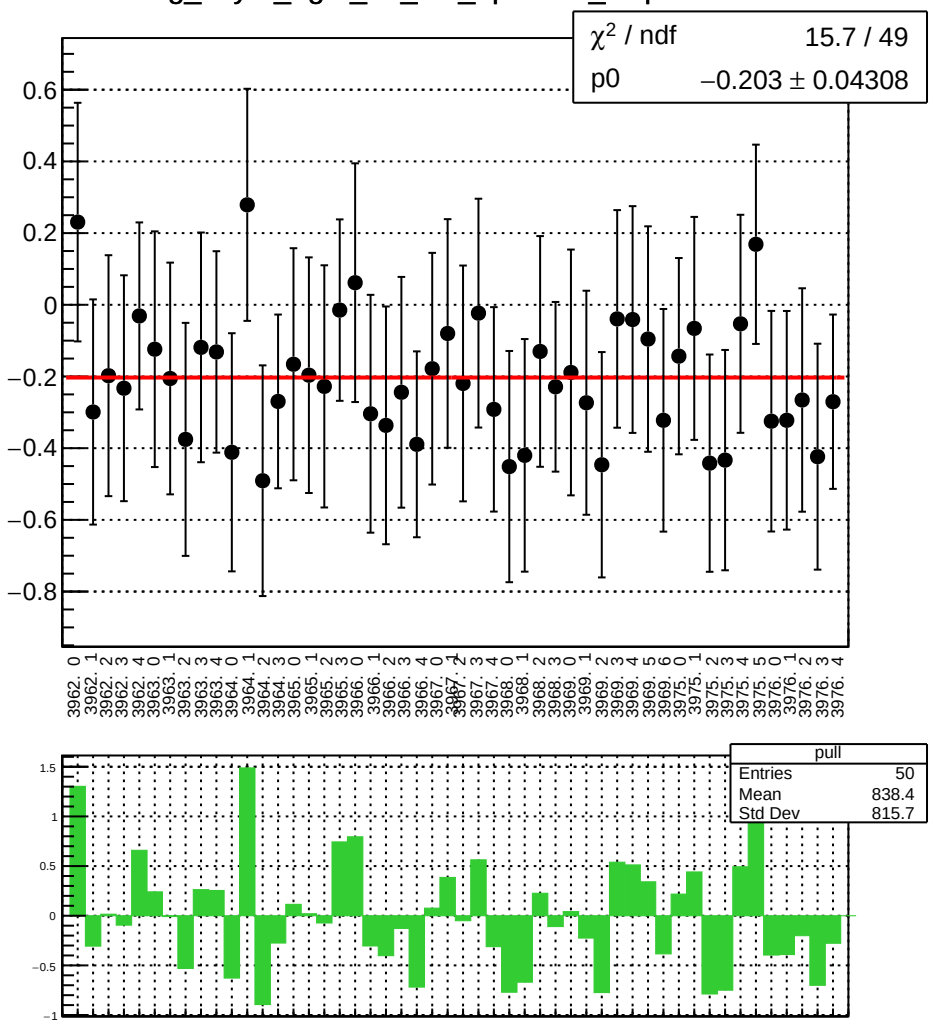

pull1D
Entries 50
Mean −0.002658
Std Dev 0.3645

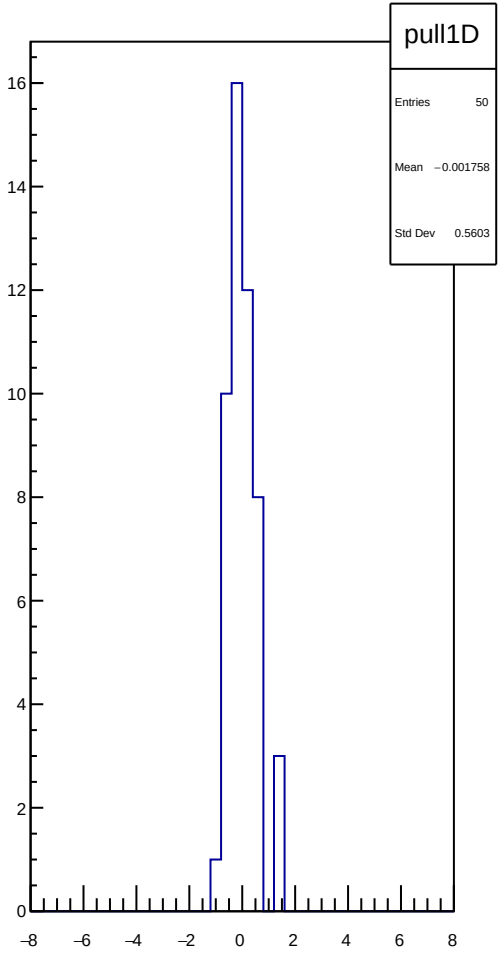

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 11.37 / 49
p0 −52.67 ± 0.1497
pull
Entries 50
Mean −134.4
Std Dev 163.9

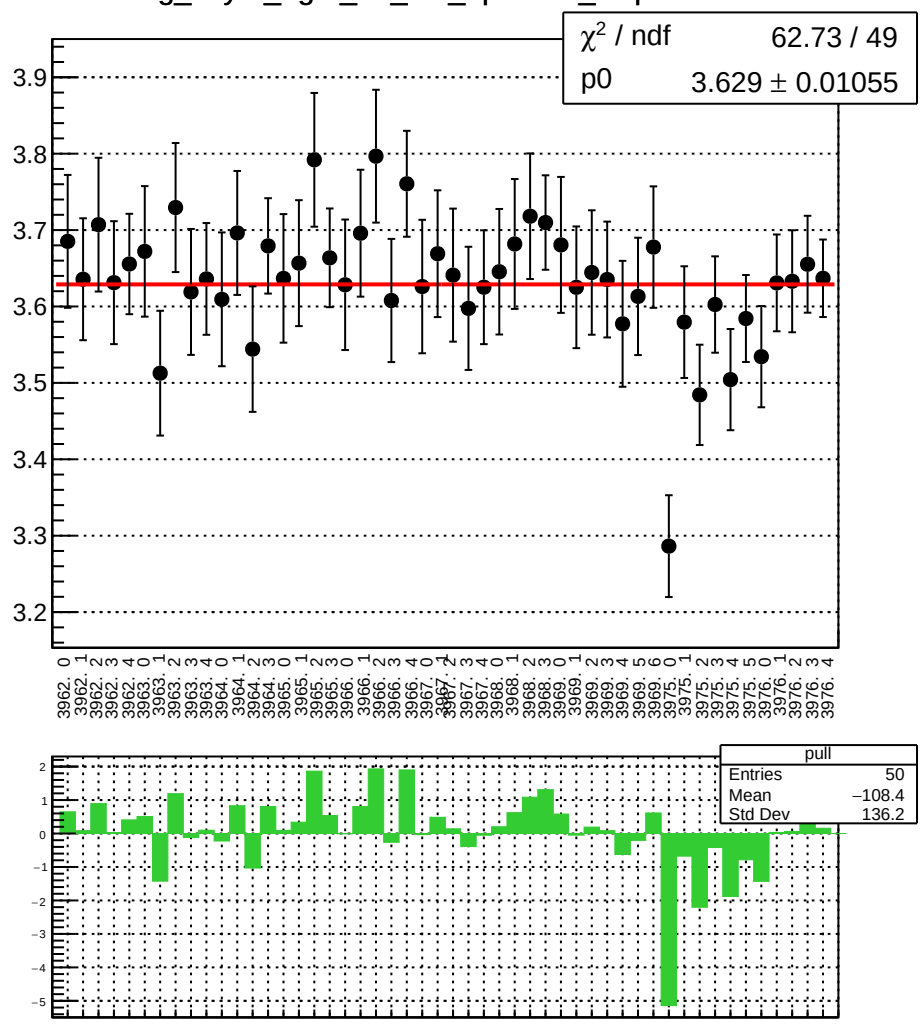

pull1D
Entries 50
Mean −0.01462
Std Dev 0.4766

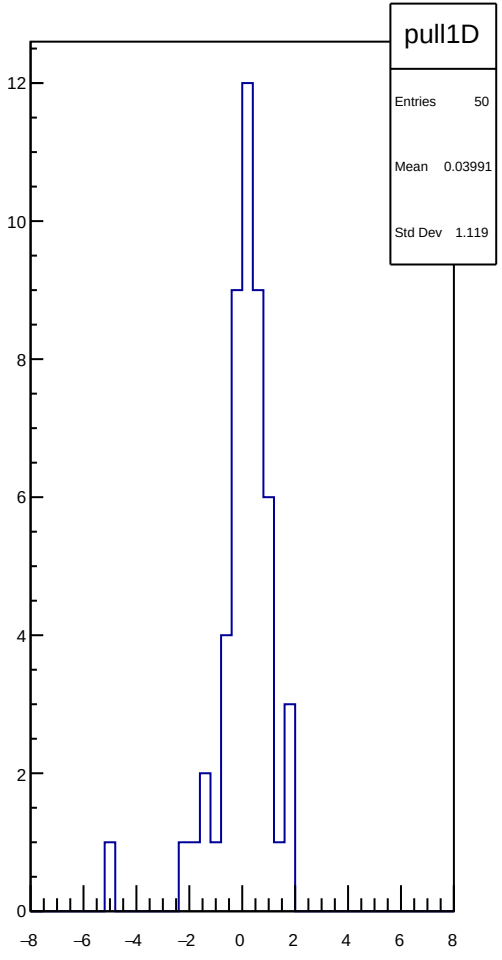

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.36 / 49
p0 −0.1737 ± 0.06157
pull
Entries 50
Mean −63.16
Std Dev 94.11

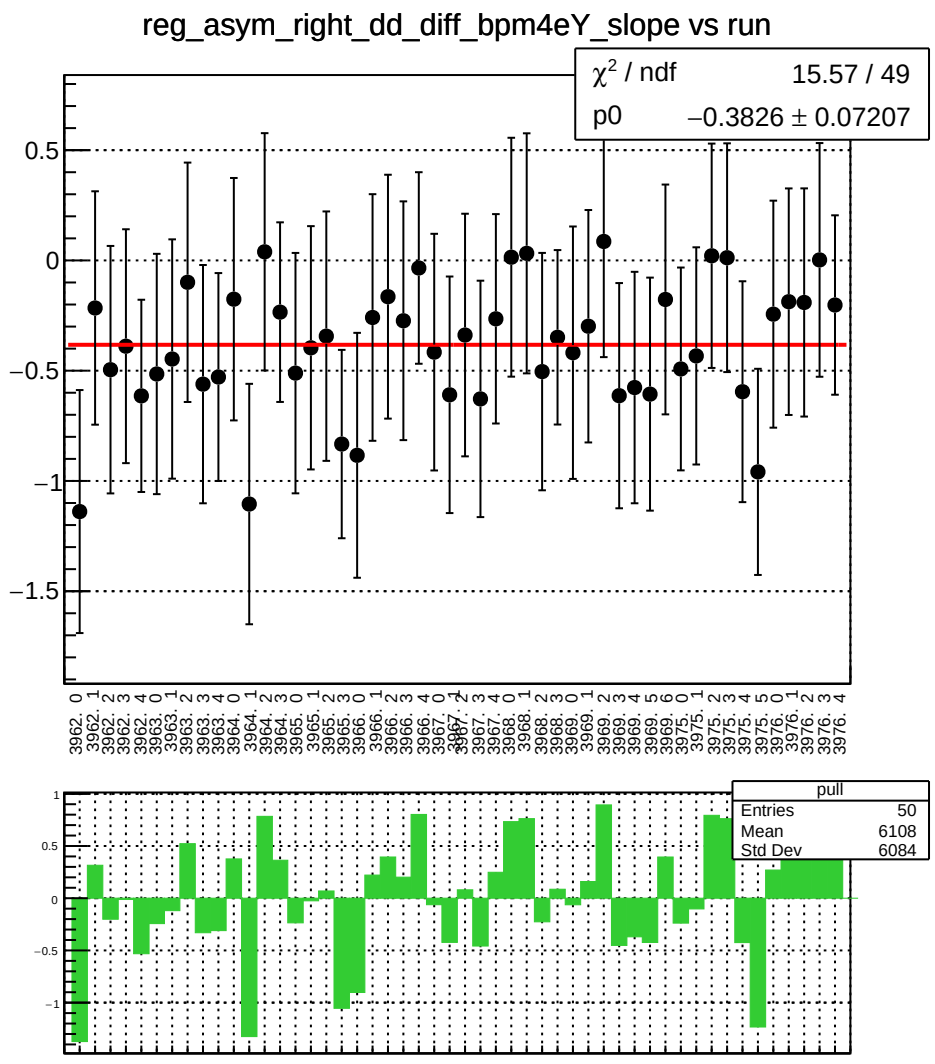

pull1D
Entries 50
Mean 0.02695
Std Dev 0.683

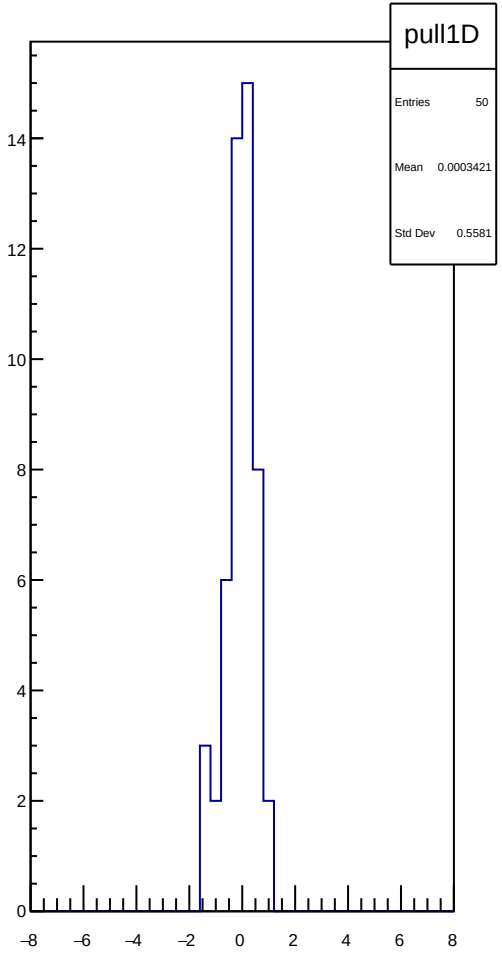

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.7 / 49
p0 −0.203 ± 0.04308
pull
Entries 50
Mean 838.4
Std Dev 815.7

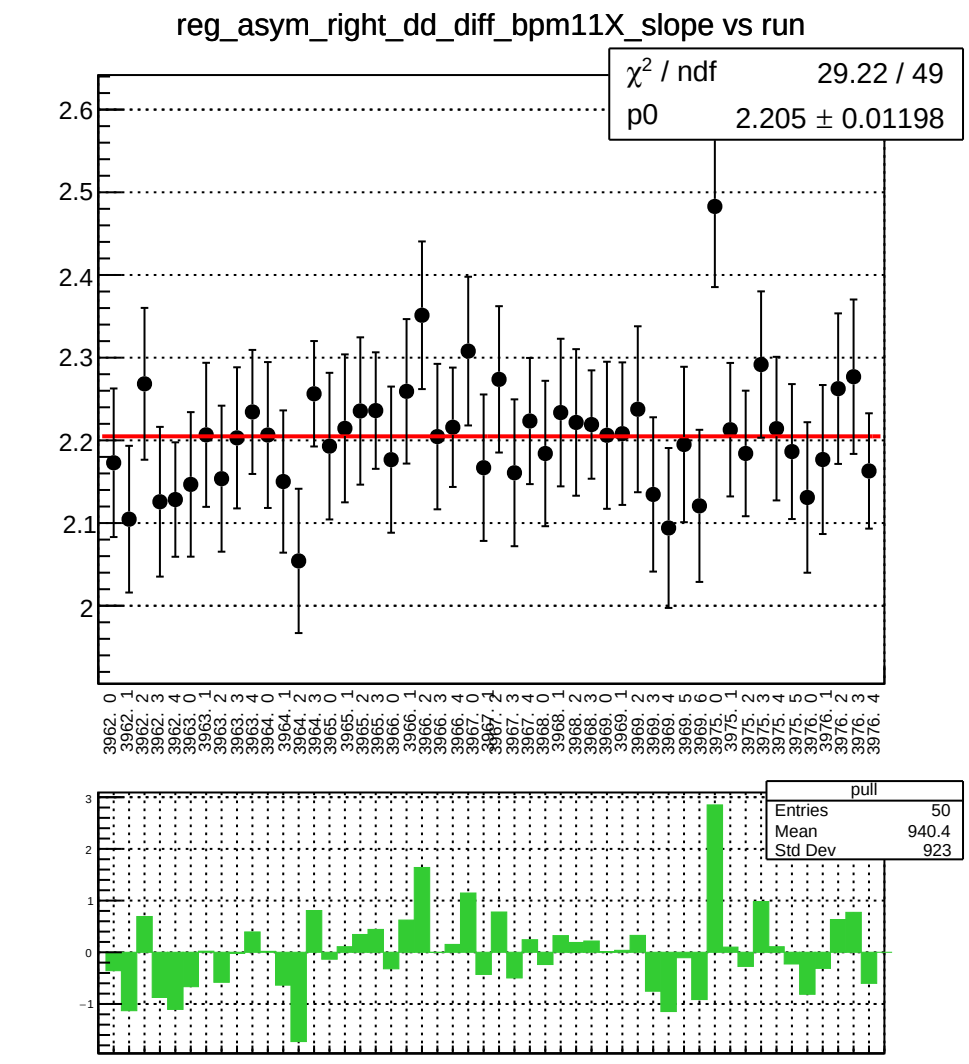

pull1D
Entries 50
Mean −0.001758
Std Dev 0.5603

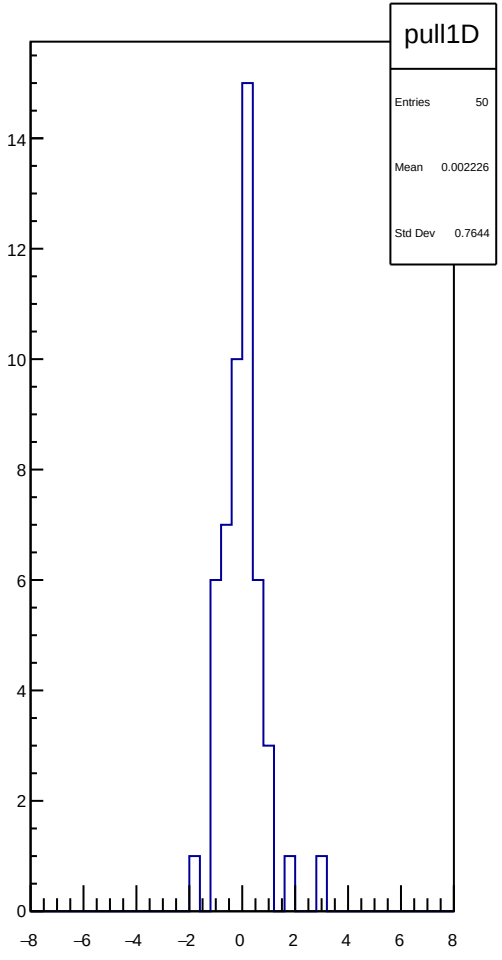

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.73 / 49
p0 3.629 ± 0.01055
pull
Entries 50
Mean −108.4
Std Dev 136.2

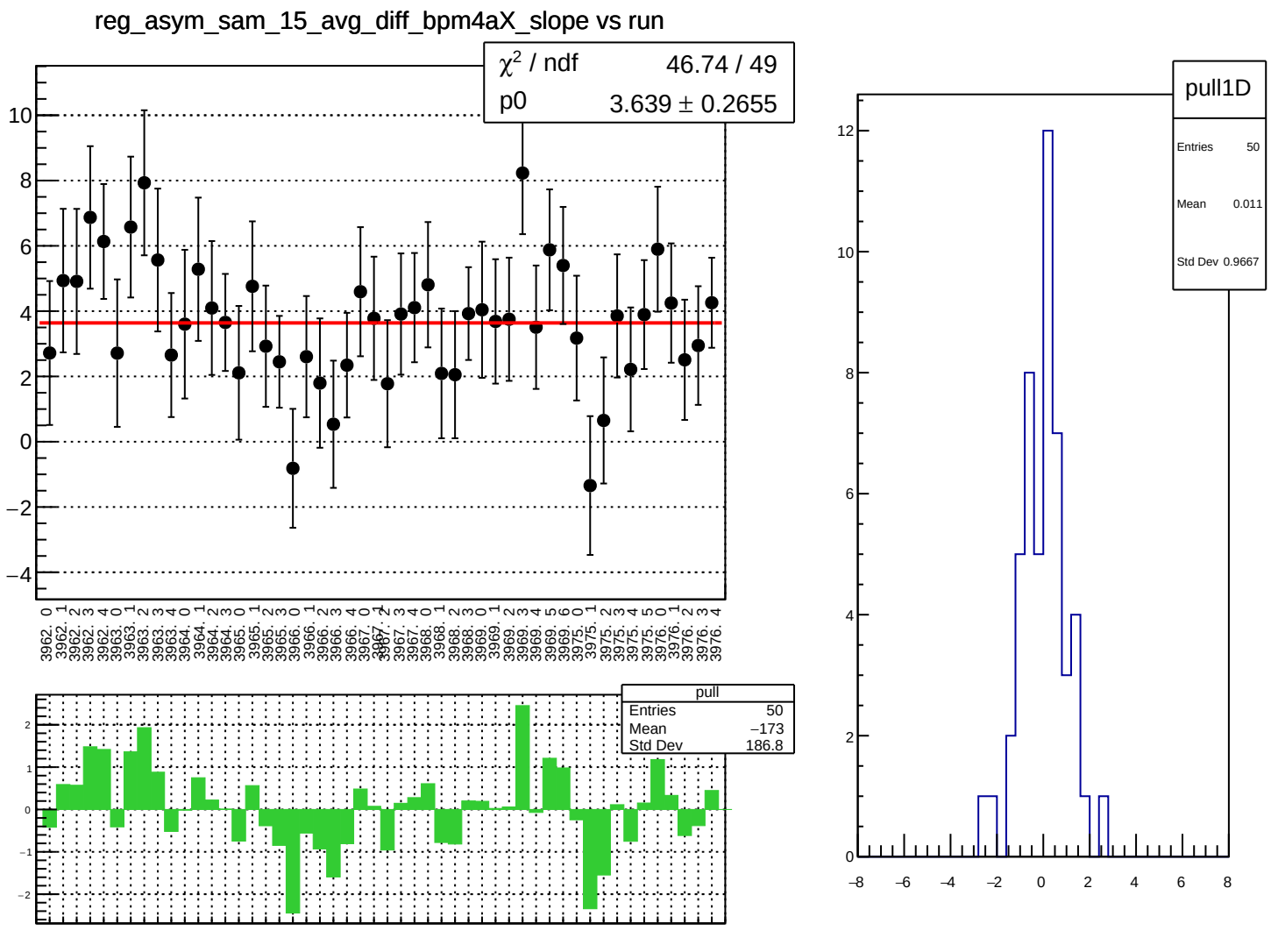

pull1D
Entries 50
Mean 0.03991
Std Dev 1.119

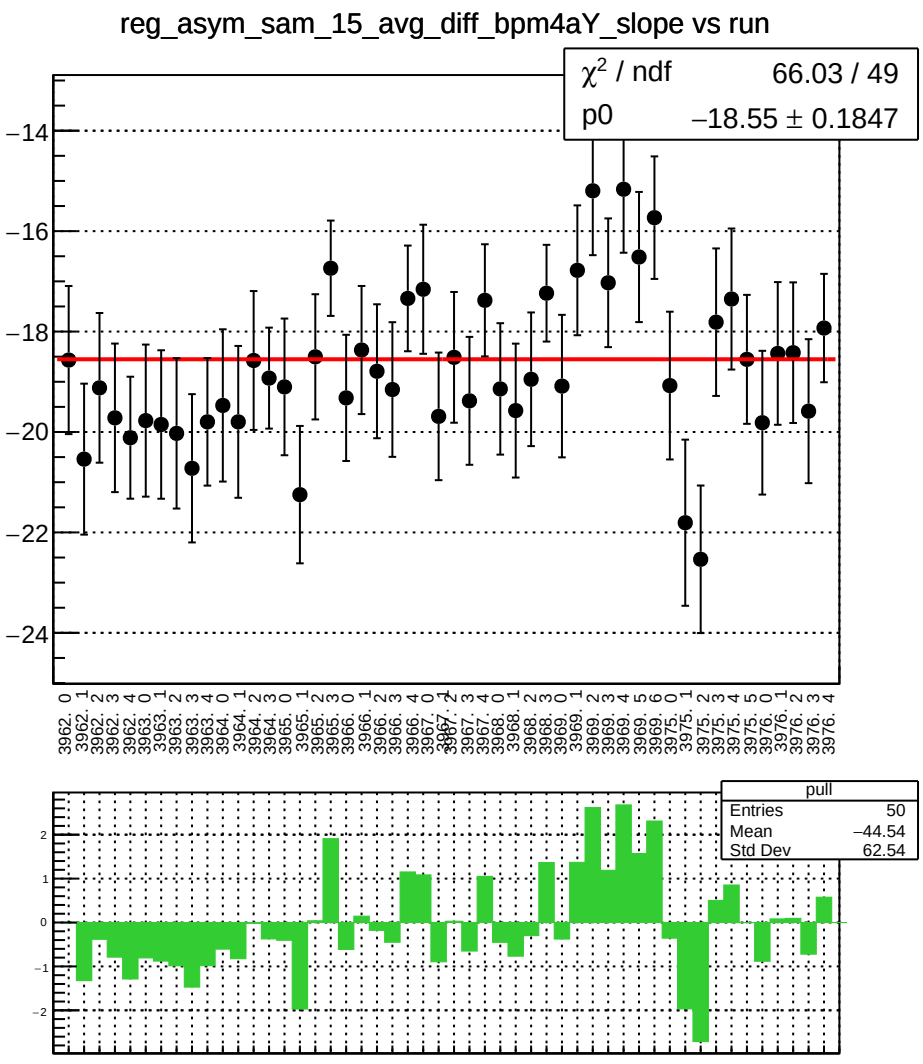

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.57 / 49
p0 −0.3826 ± 0.07207
pull
Entries 50
Mean 6108
Std Dev 6084

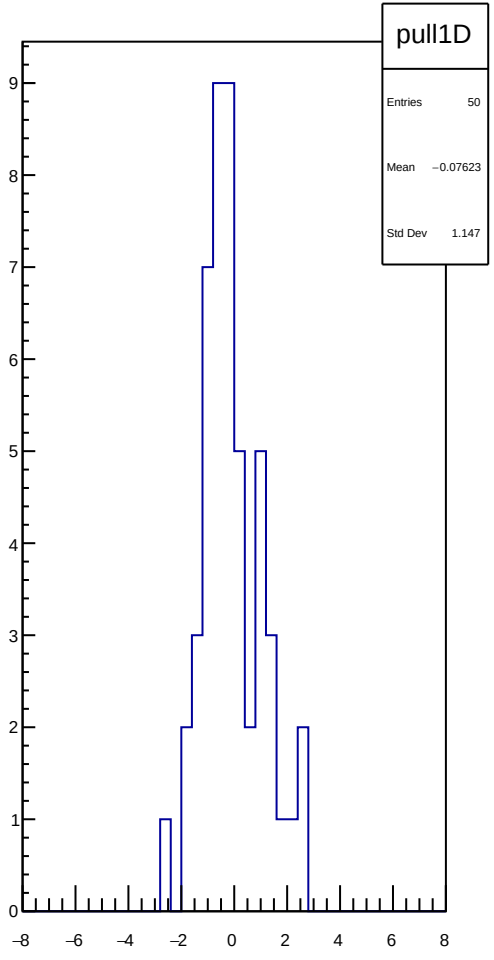

pull1D
Entries 50
Mean 0.0003421
Std Dev 0.5581

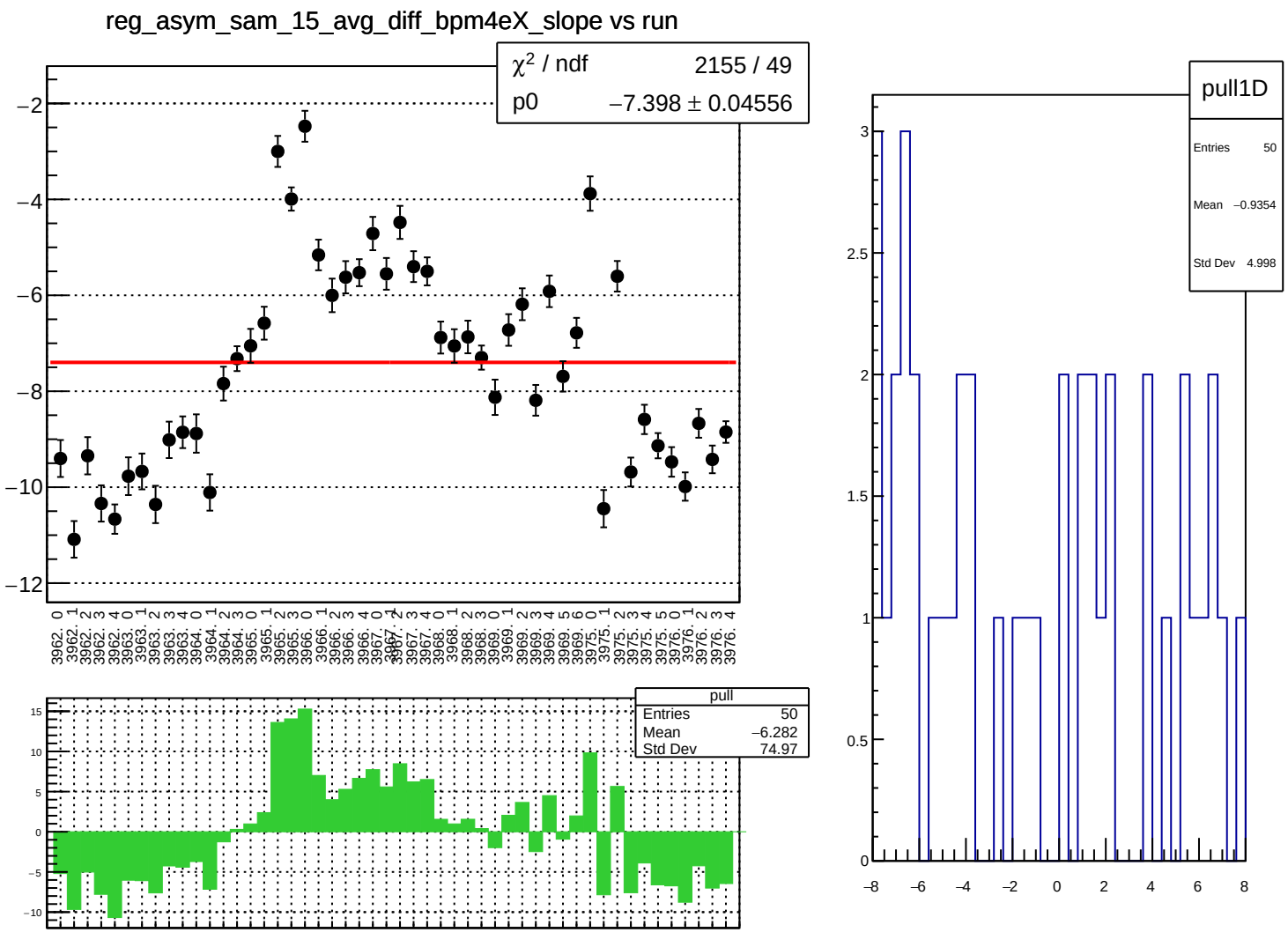

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 29.22 / 49
p0 2.205 ± 0.01198
pull
Entries 50
Mean 940.4
Std Dev 923

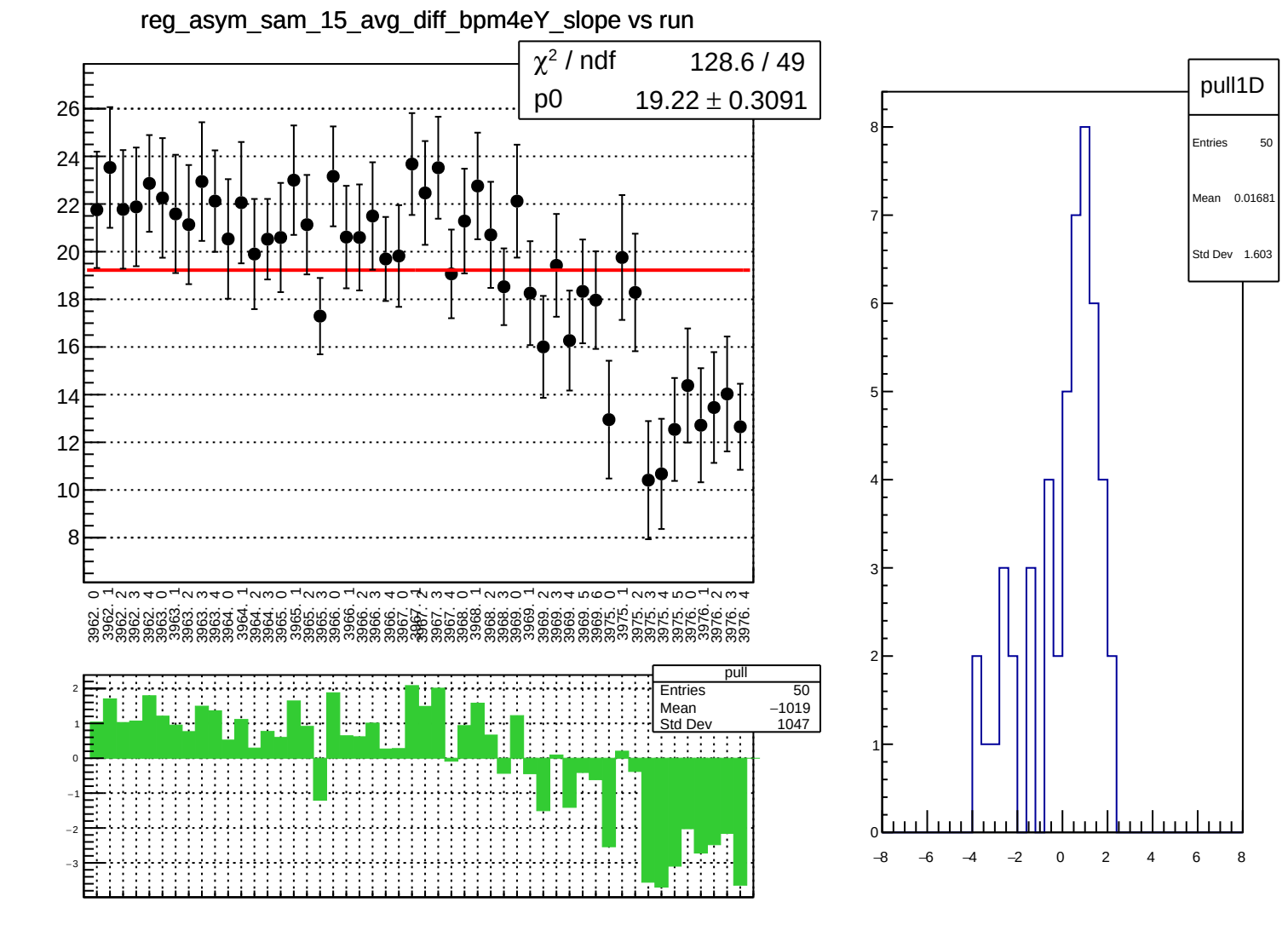

pull1D
Entries 50
Mean 0.002226
Std Dev 0.7644

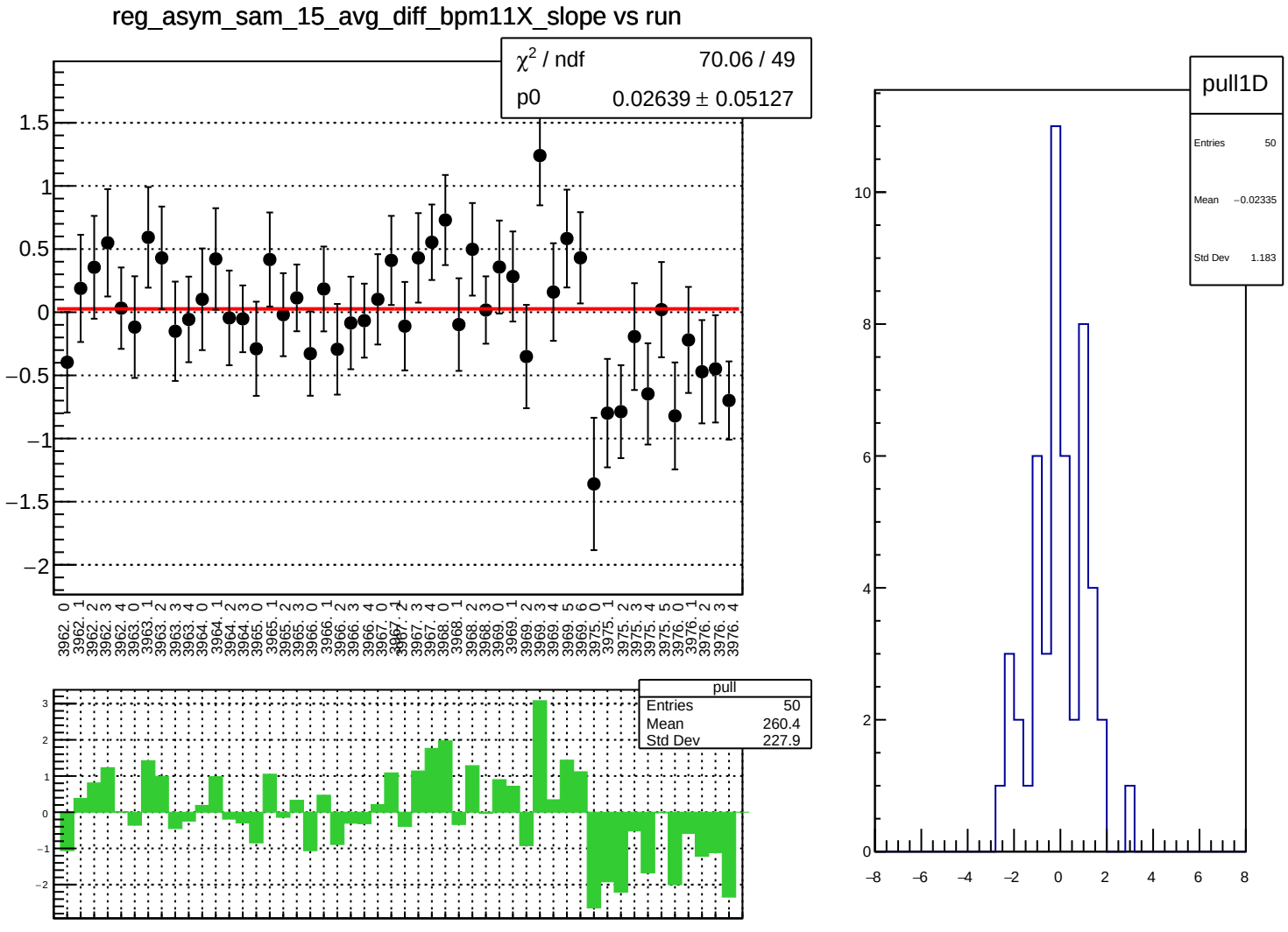

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.74 / 49
p0 3.639 ± 0.2655
pull
Entries 50
Mean −173
Std Dev 186.8
pull1D
Entries 50
Mean 0.011
Std Dev 0.9667

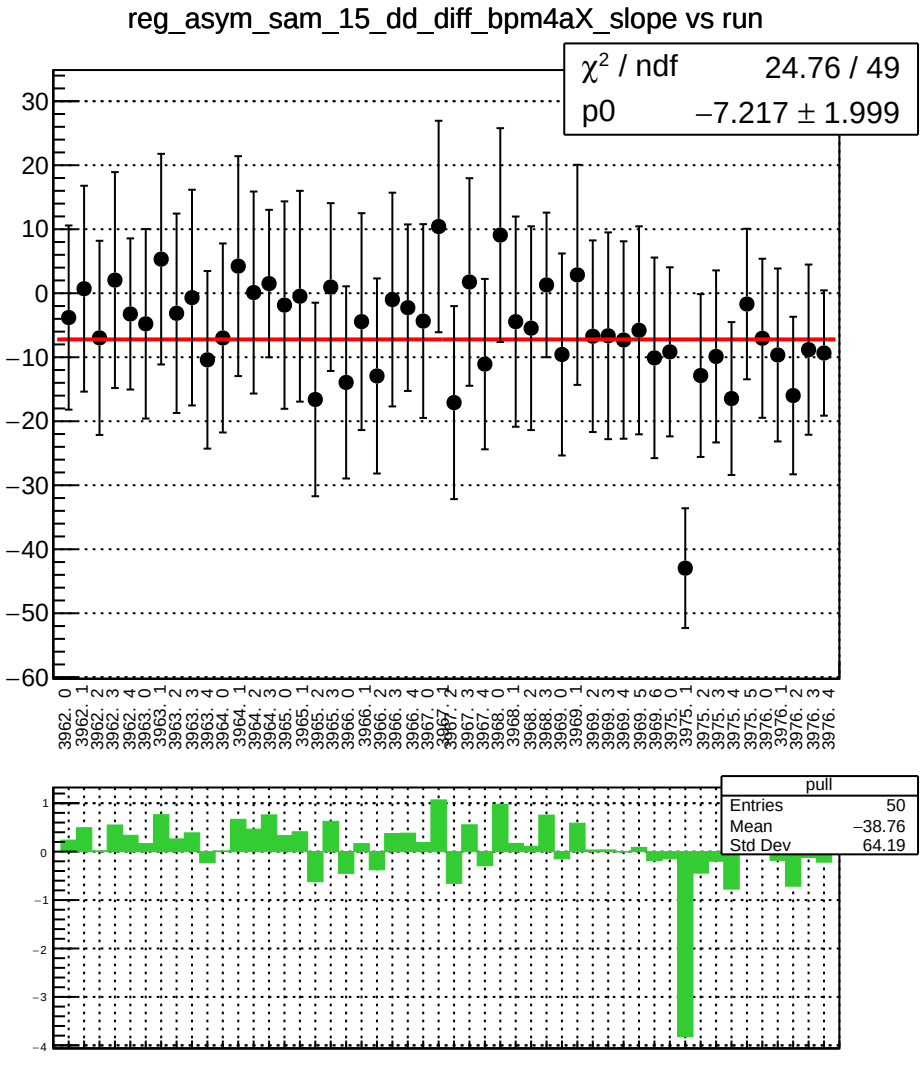

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.03 / 49
p0 −18.55 ± 0.1847
pull
Entries 50
Mean −44.54
Std Dev 62.54

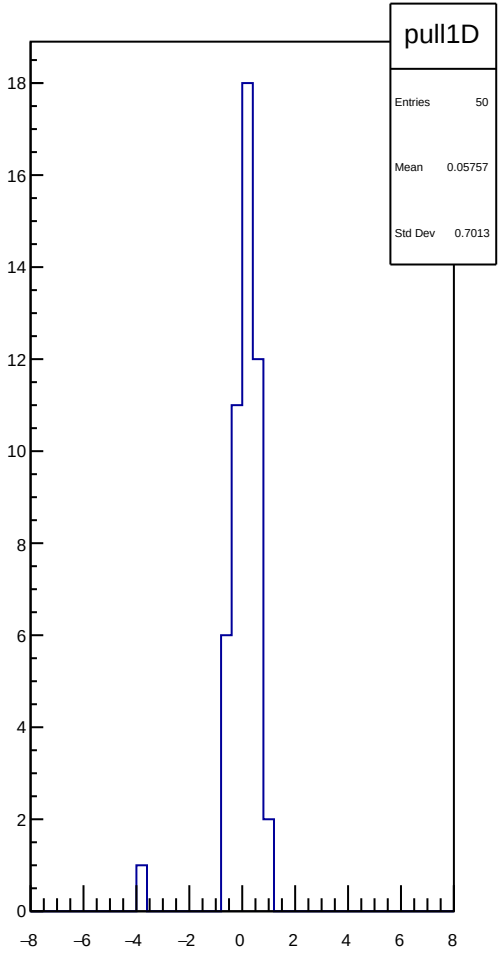

pull1D
Entries 50
Mean −0.07623
Std Dev 1.147

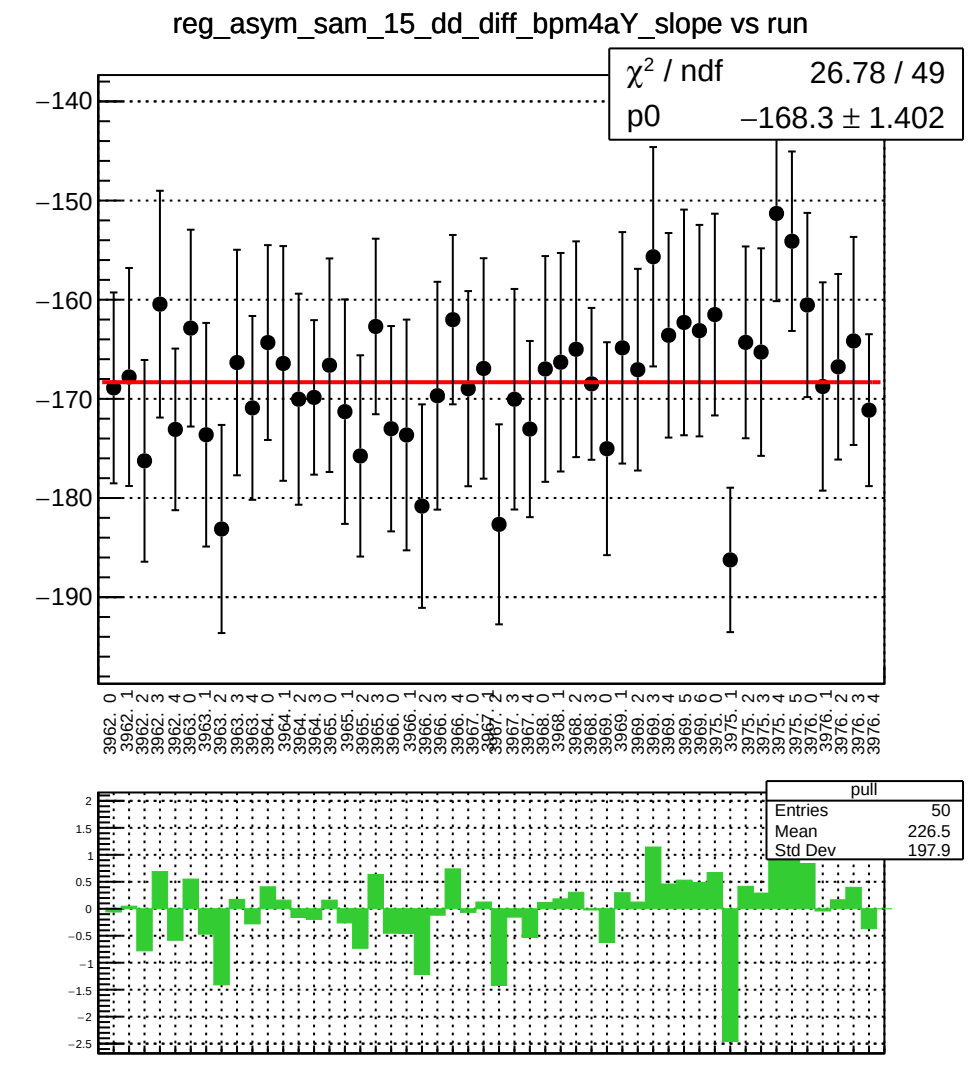

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 2155 / 49
p0 −7.398 ± 0.04556
pull
Entries 50
Mean −6.282
Std Dev 74.97
pull1D
Entries 50
Mean −0.9354
Std Dev 4.998

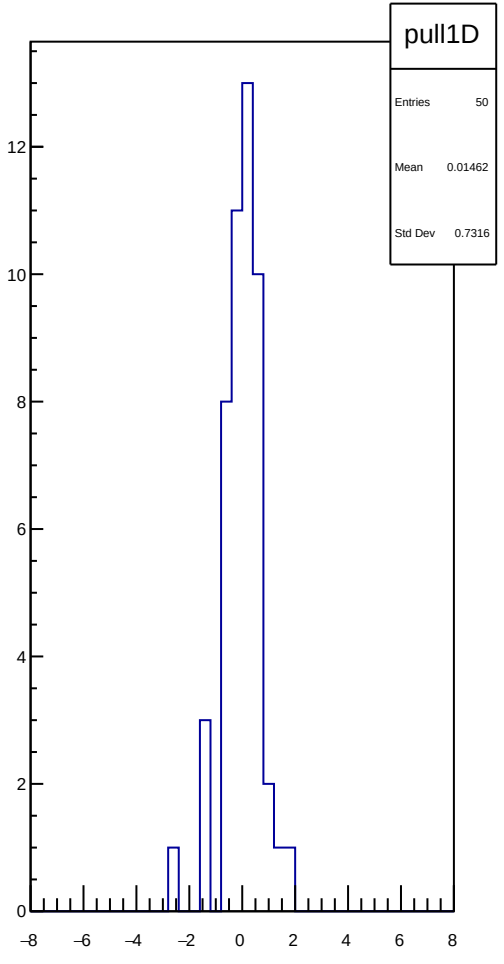

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 128.6 / 49
p0 19.22 ± 0.3091
pull
Entries 50
Mean −1019
Std Dev 1047
pull1D
Entries 50
Mean 0.01681
Std Dev 1.603

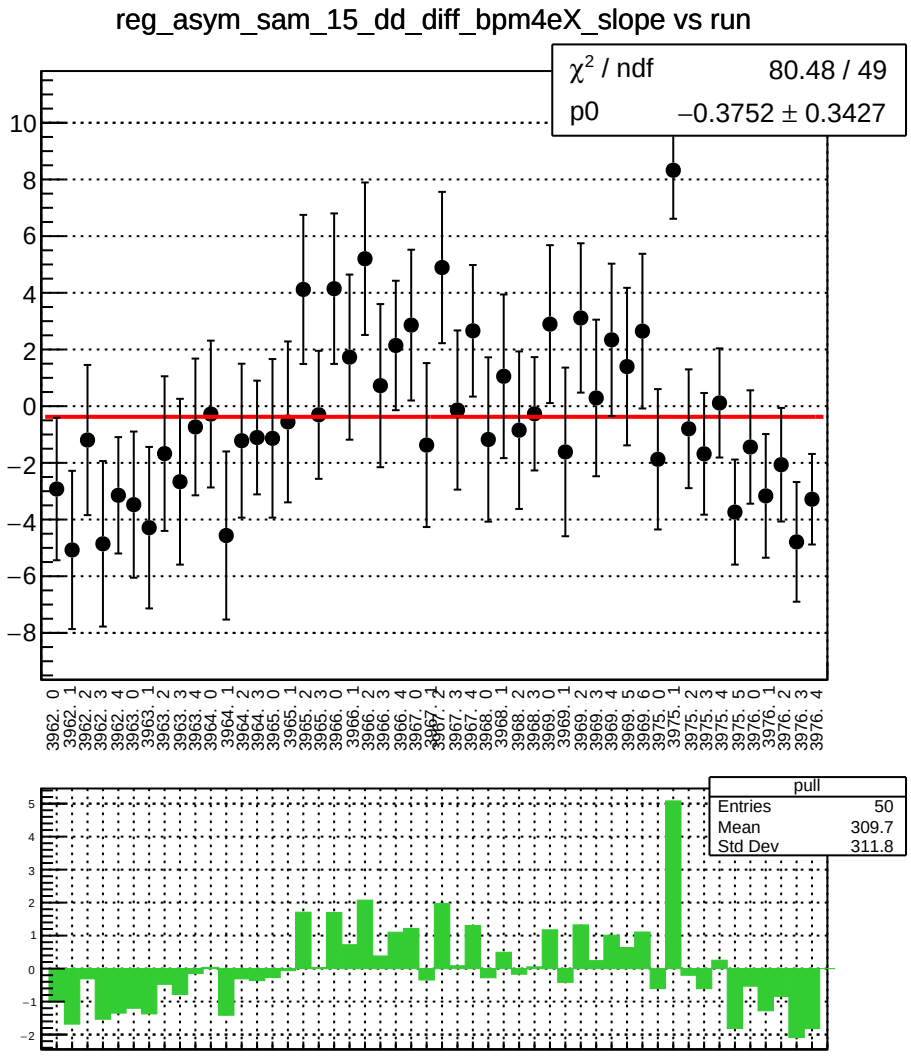

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 70.06 / 49
p0 0.02639 ± 0.05127
pull
Entries 50
Mean 260.4
Std Dev 227.9
pull1D
Entries 50
Mean −0.02335
Std Dev 1.183

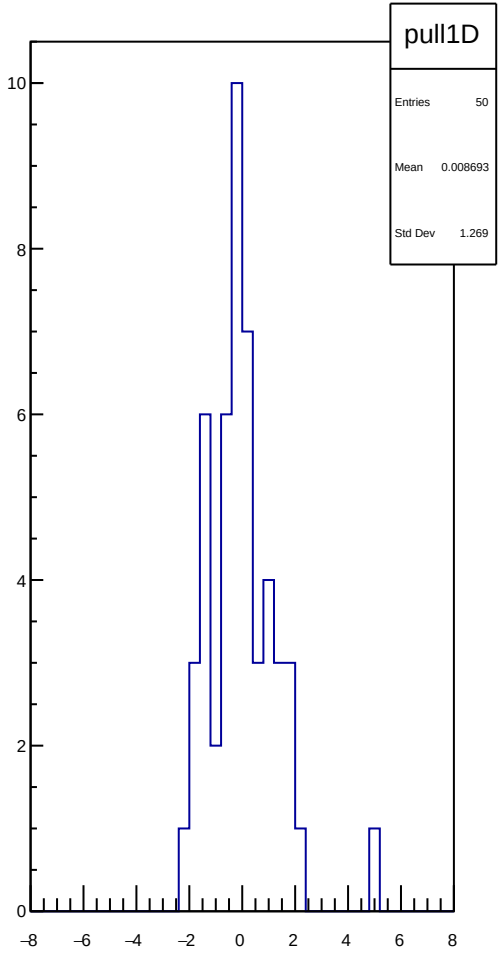

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 24.76 / 49
p0 −7.217 ± 1.999
pull
Entries 50
Mean −38.76
Std Dev 64.19

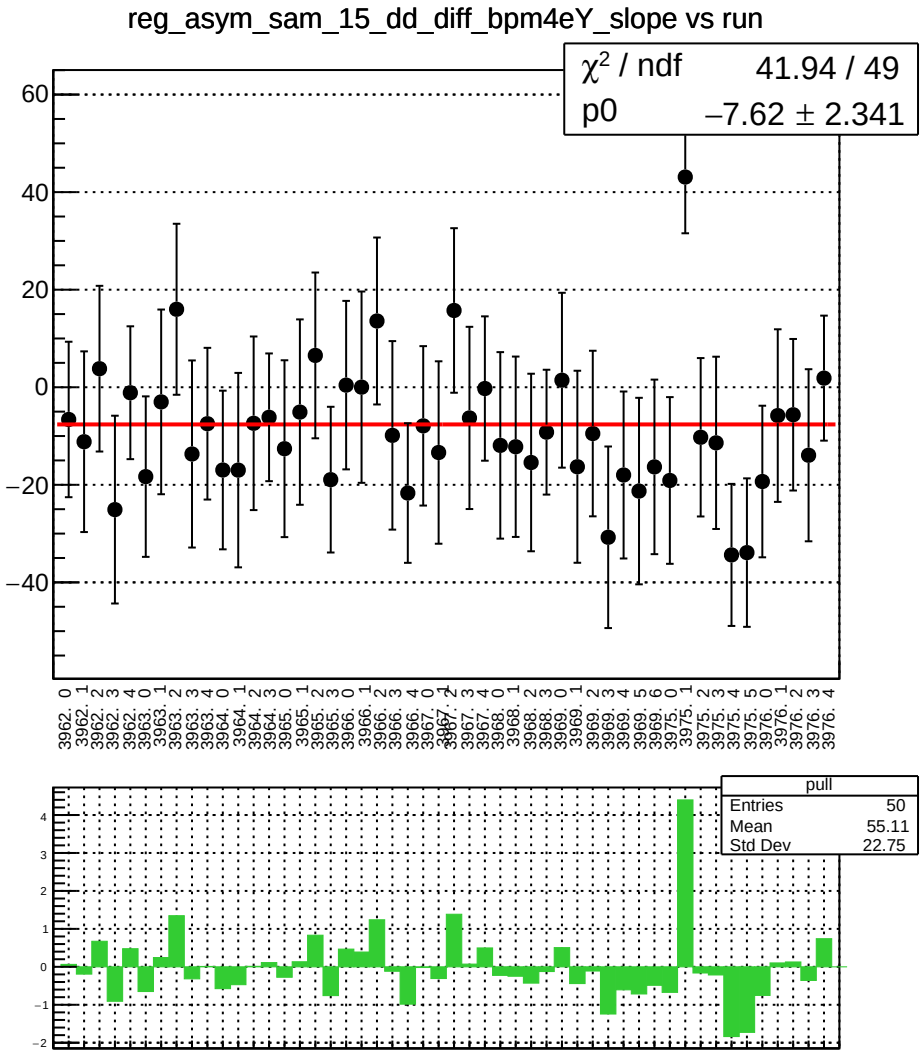

pull1D
Entries 50
Mean 0.05757
Std Dev 0.7013

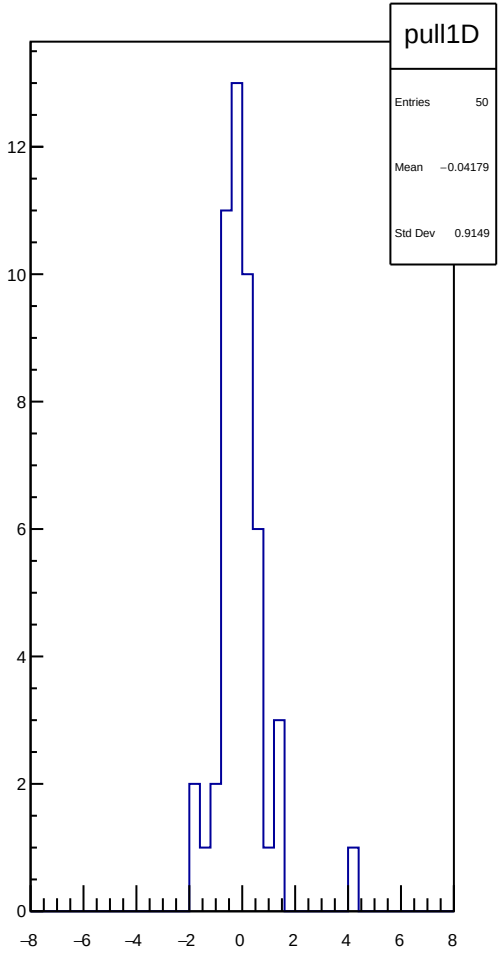

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.78 / 49
p0 −168.3 ± 1.402
pull
Entries 50
Mean 226.5
Std Dev 197.9

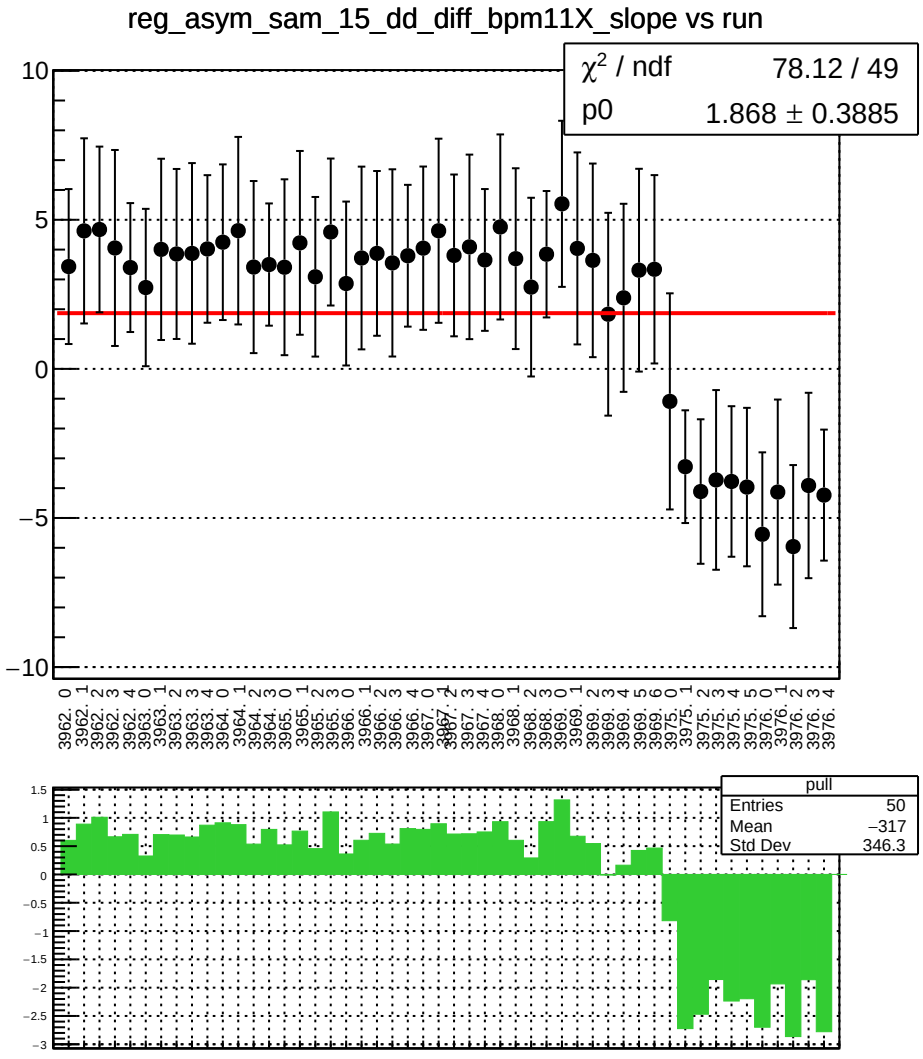

pull1D
Entries 50
Mean 0.01462
Std Dev 0.7316

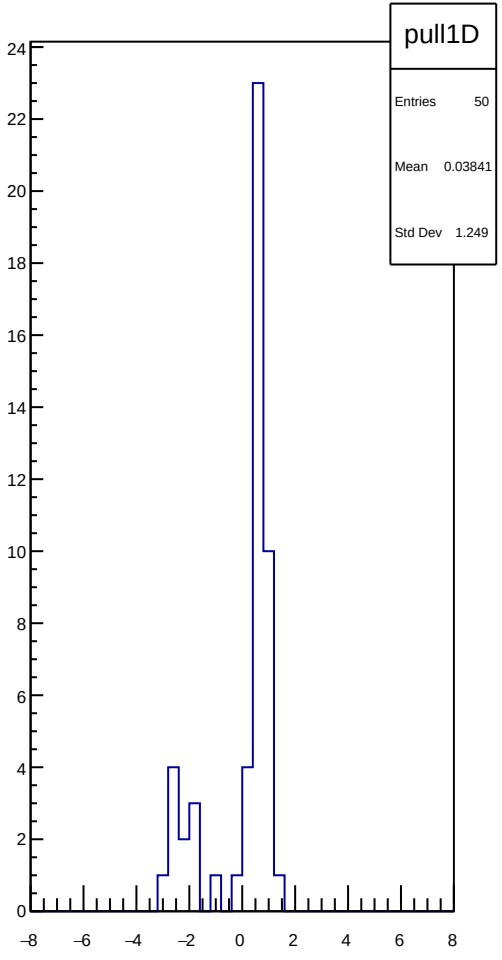

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.48 / 49
p0 −0.3752 ± 0.3427
pull
Entries 50
Mean 309.7
Std Dev 311.8

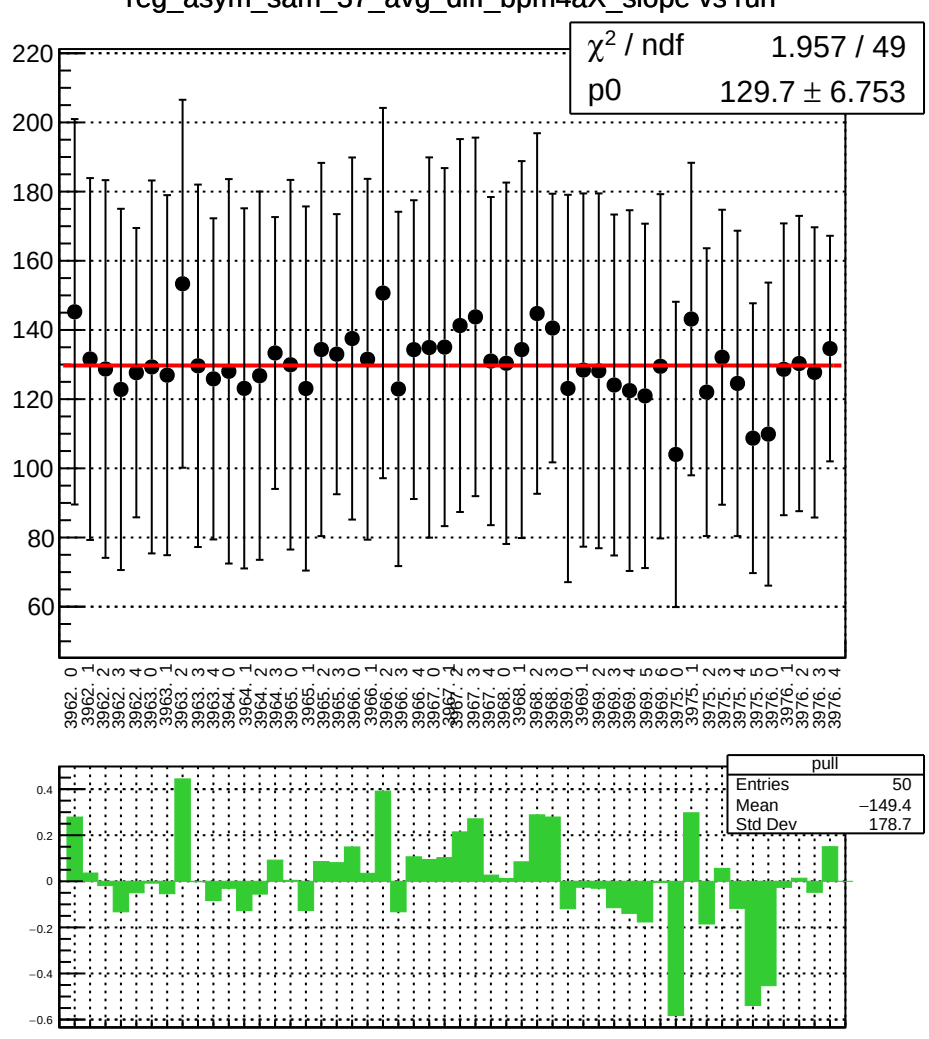

pull1D
Entries 50
Mean 0.008693
Std Dev 1.269

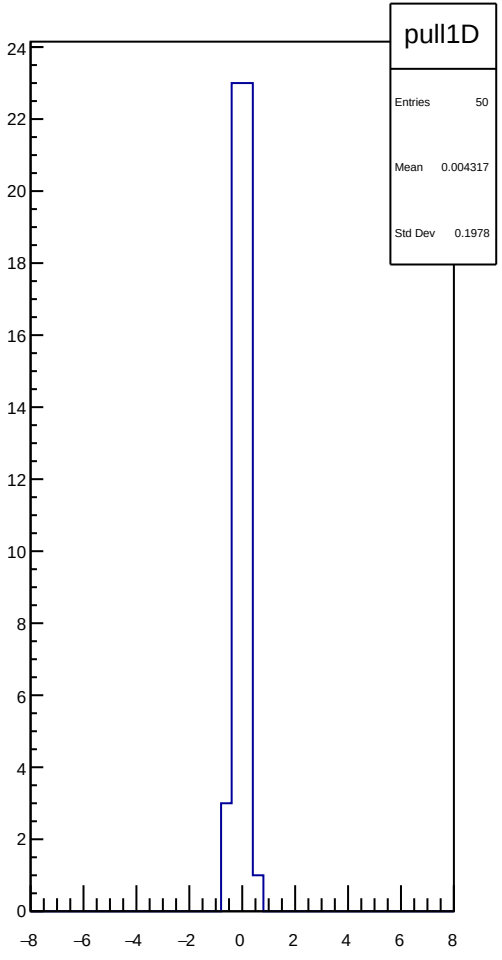

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.94 / 49
p0 −7.62 ± 2.341
pull
Entries 50
Mean 55.11
Std Dev 22.75

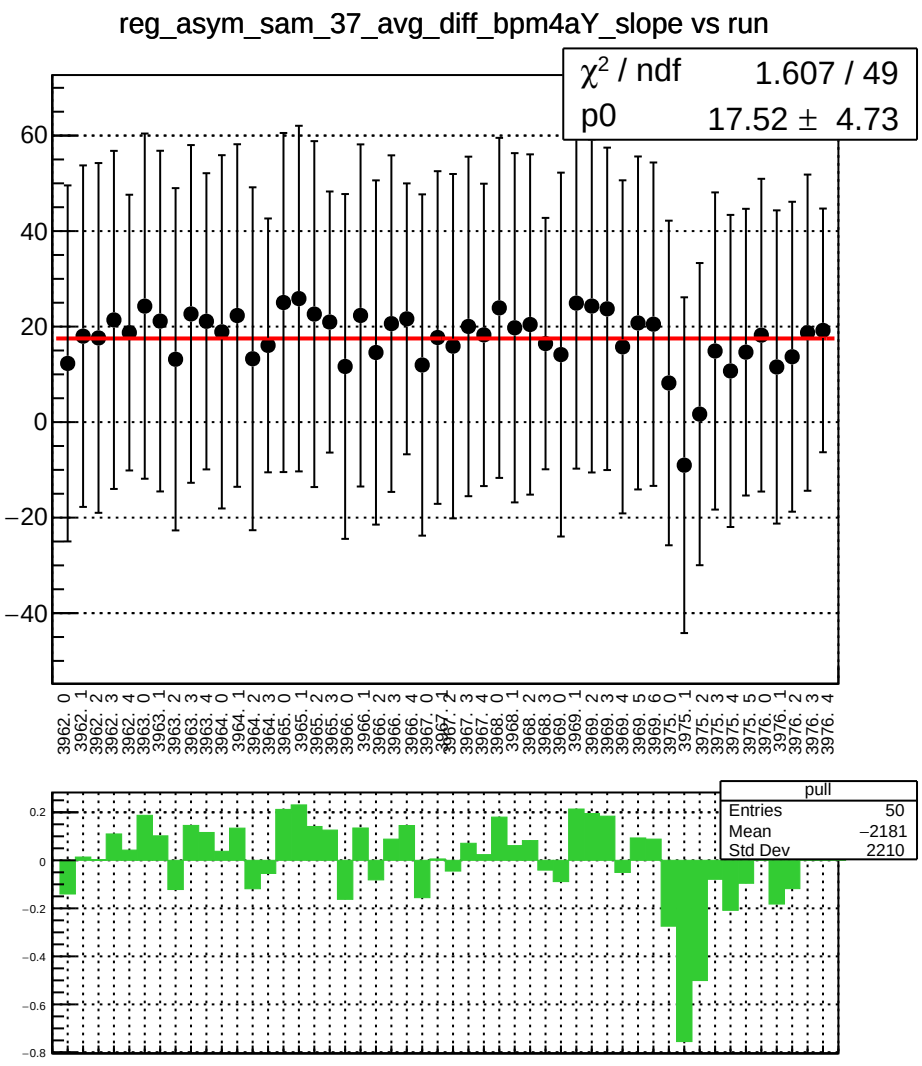

pull1D
Entries 50
Mean −0.04179
Std Dev 0.9149

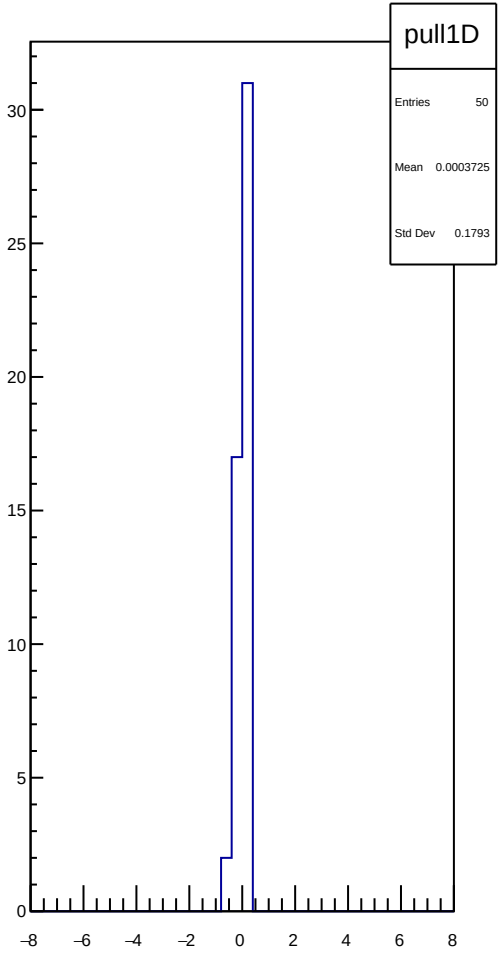

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 78.12 / 49
p0 1.868 ± 0.3885
pull
Entries 50
Mean −317
Std Dev 346.3

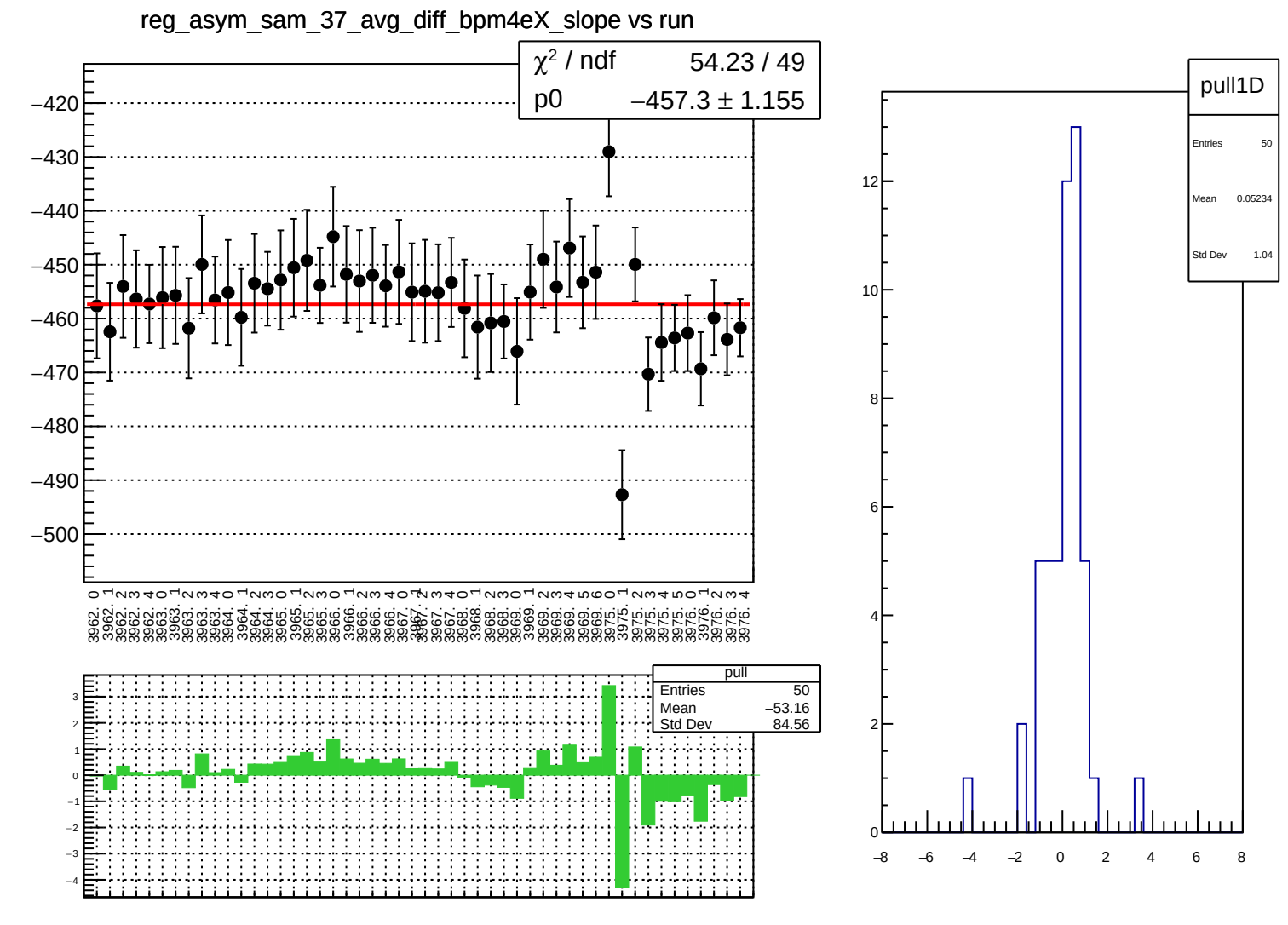

pull1D
Entries 50
Mean 0.03841
Std Dev 1.249

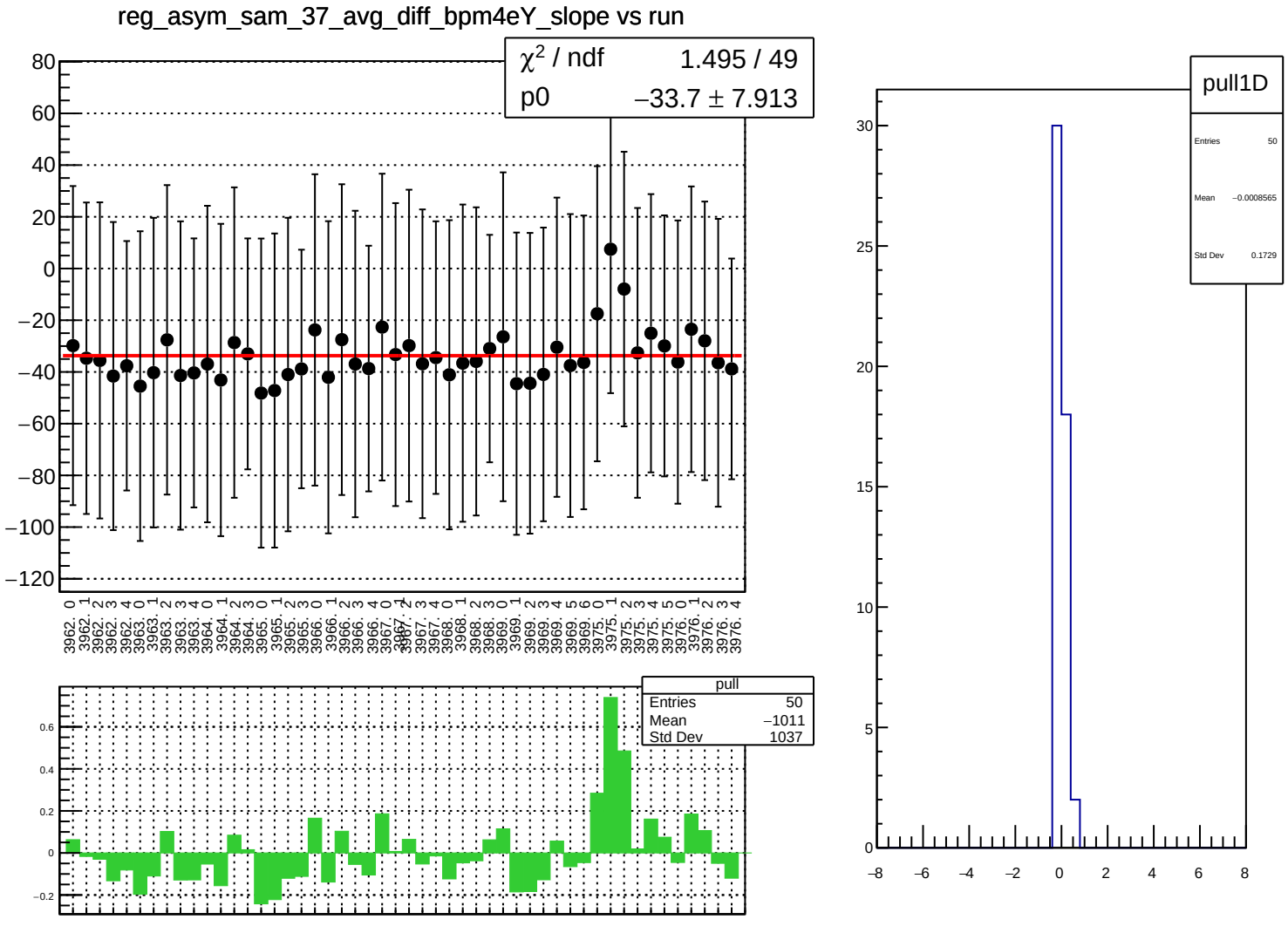

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.957 / 49
p0 129.7 ± 6.753
pull
Entries 50
Mean −149.4
Std Dev 178.7

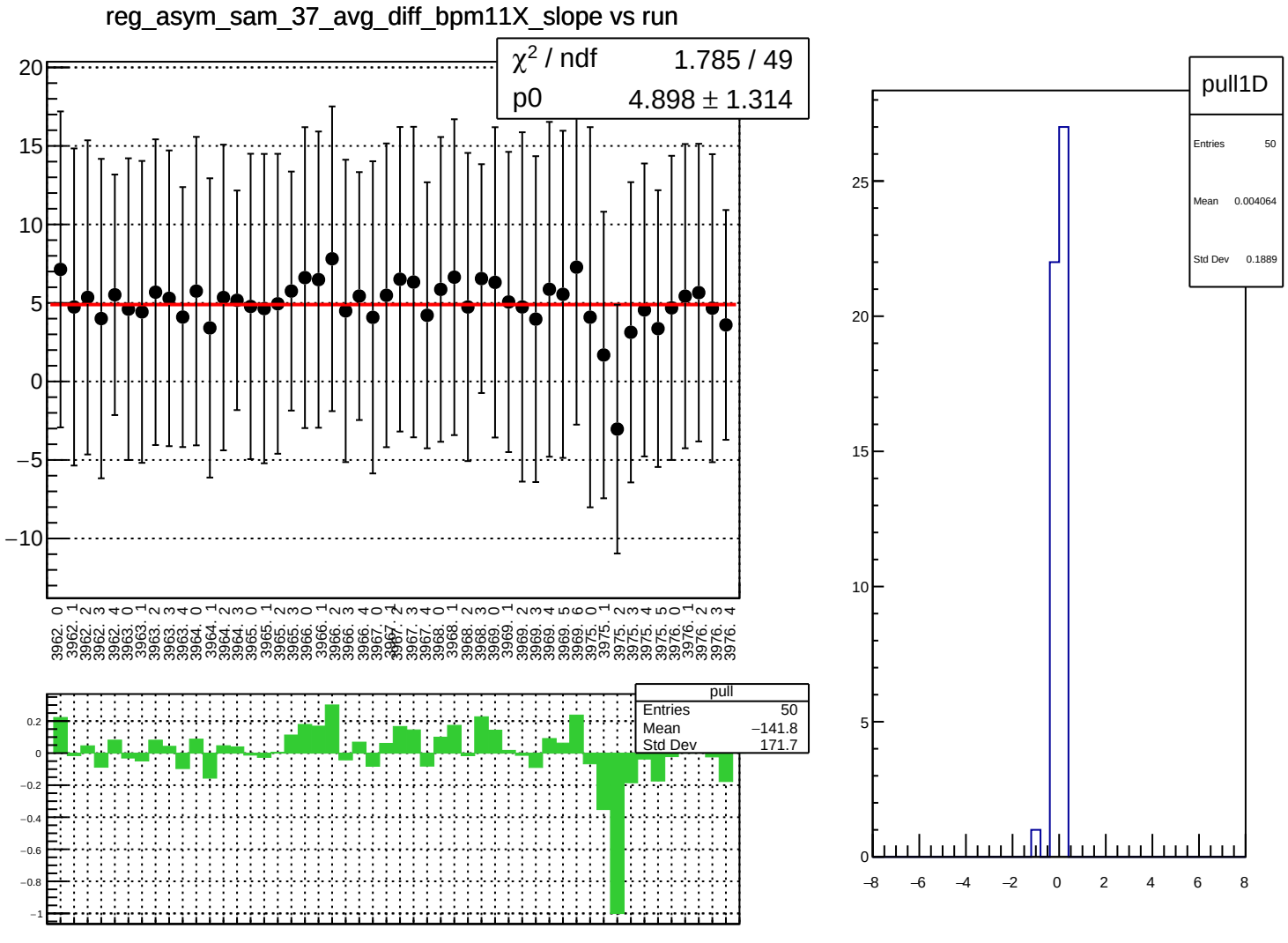

pull1D
Entries 50
Mean 0.004317
Std Dev 0.1978

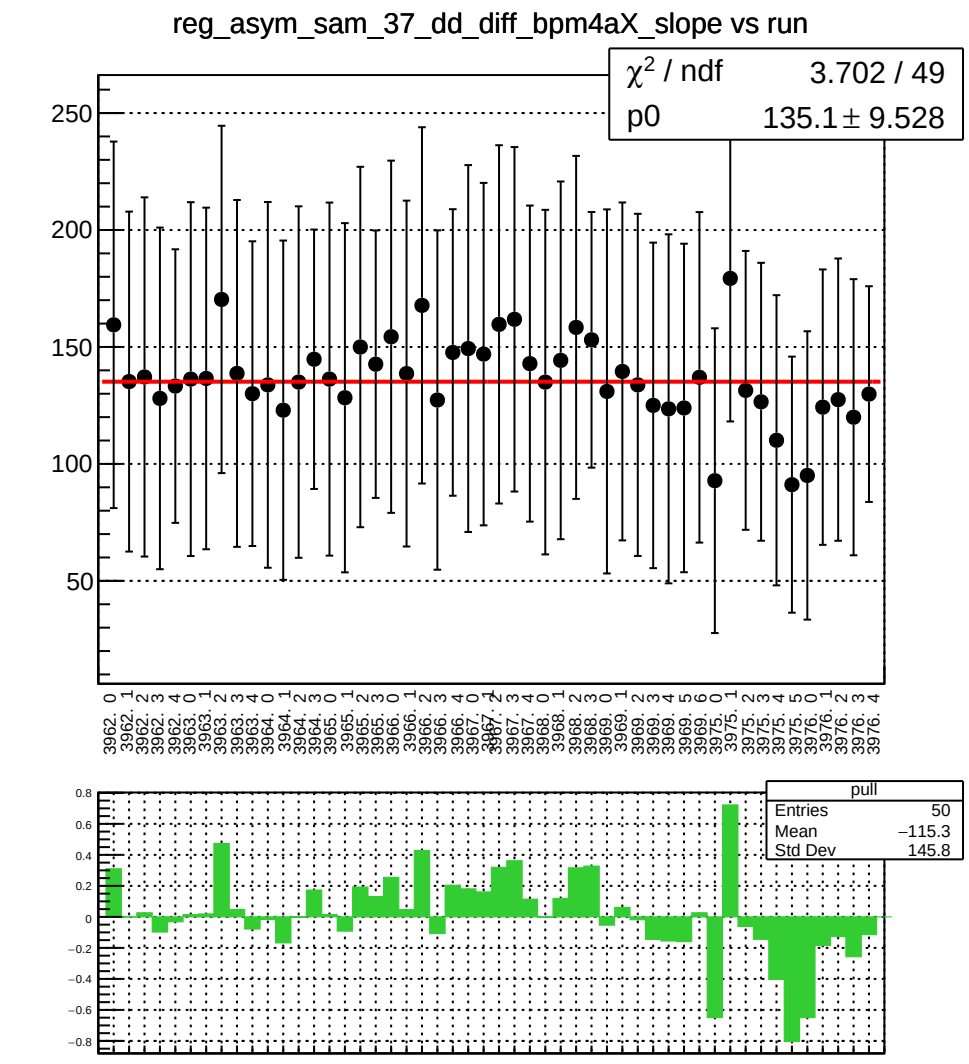

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.607 / 49
p0 17.52 ± 4.73
pull
Entries 50
Mean −2181
Std Dev 2210

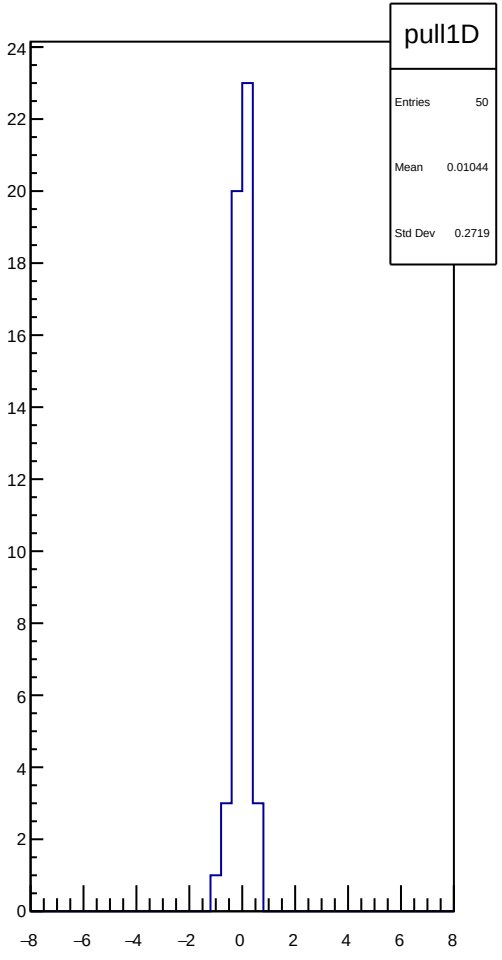

pull1D
Entries 50
Mean 0.0003725
Std Dev 0.1793

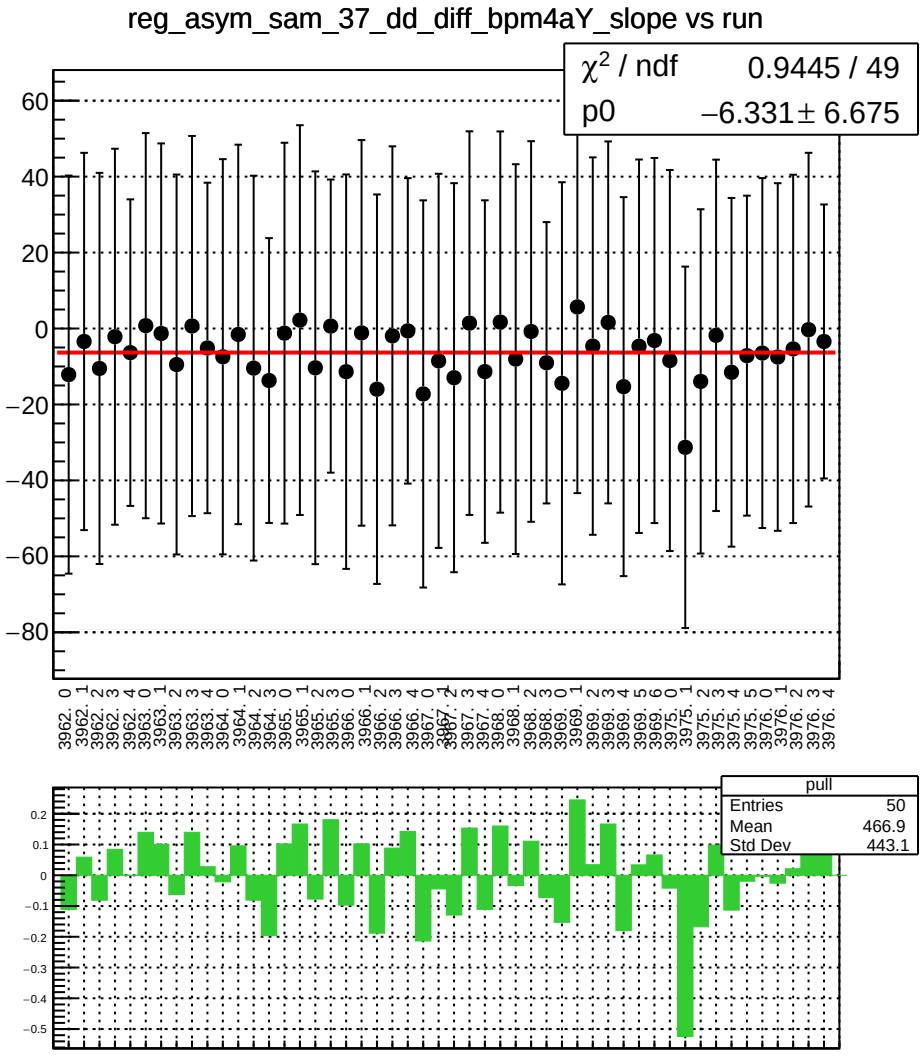

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.23 / 49
p0 −457.3 ± 1.155
pull
Entries 50
Mean −53.16
Std Dev 84.56
pull1D
Entries 50
Mean 0.05234
Std Dev 1.04

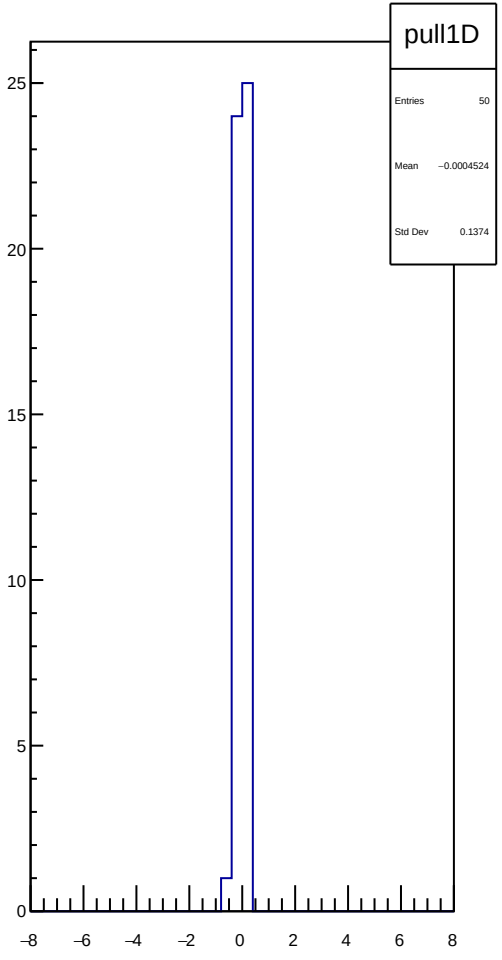

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.495 / 49
p0 −33.7 ± 7.913
pull
Entries 50
Mean −1011
Std Dev 1037
pull1D
Entries 50
Mean −0.0008565
Std Dev 0.1729

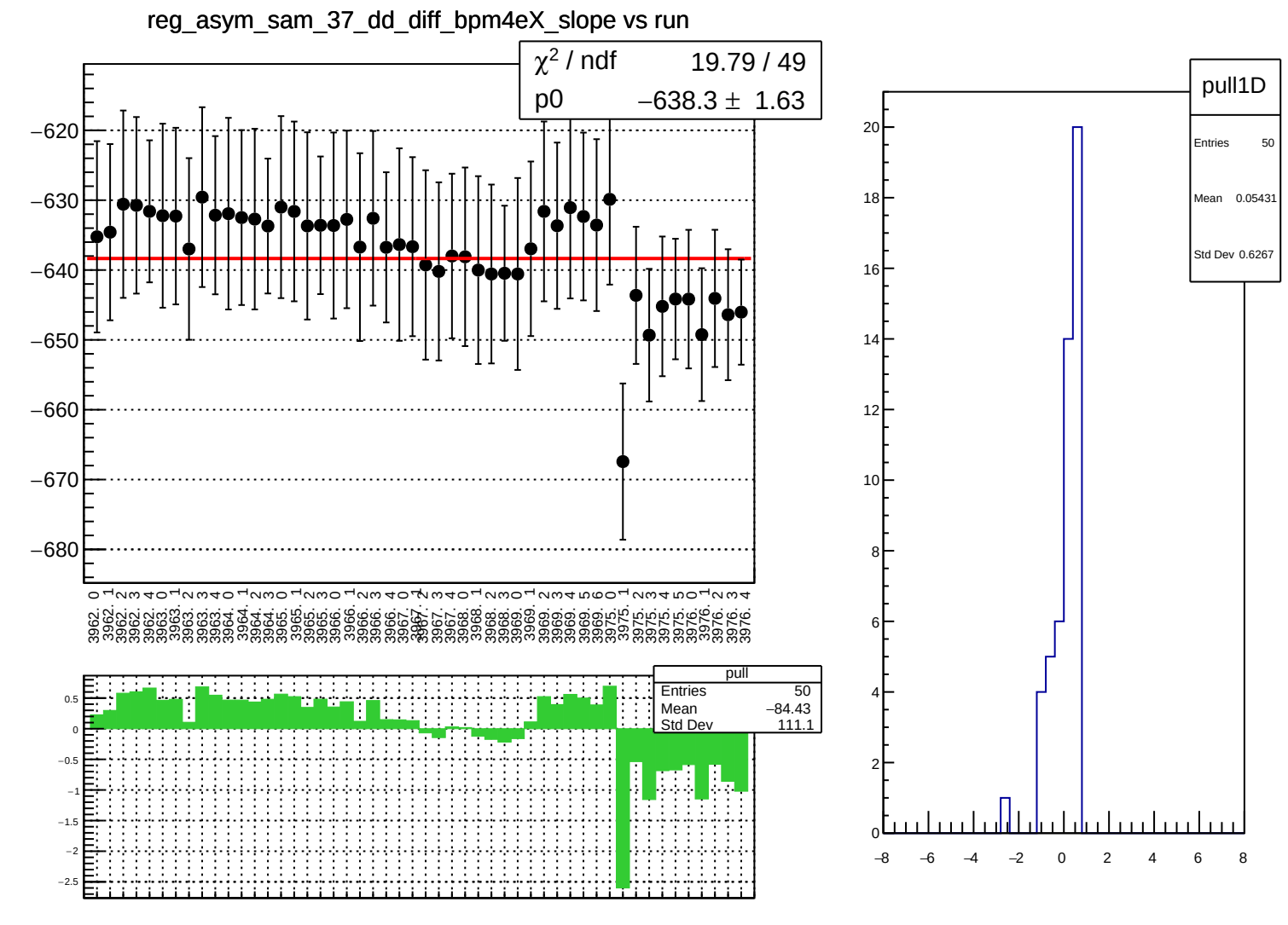

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 1.785 / 49
p0 4.898 ± 1.314
pull
Entries 50
Mean −141.8
Std Dev 171.7
pull1D
Entries 50
Mean 0.004064
Std Dev 0.1889

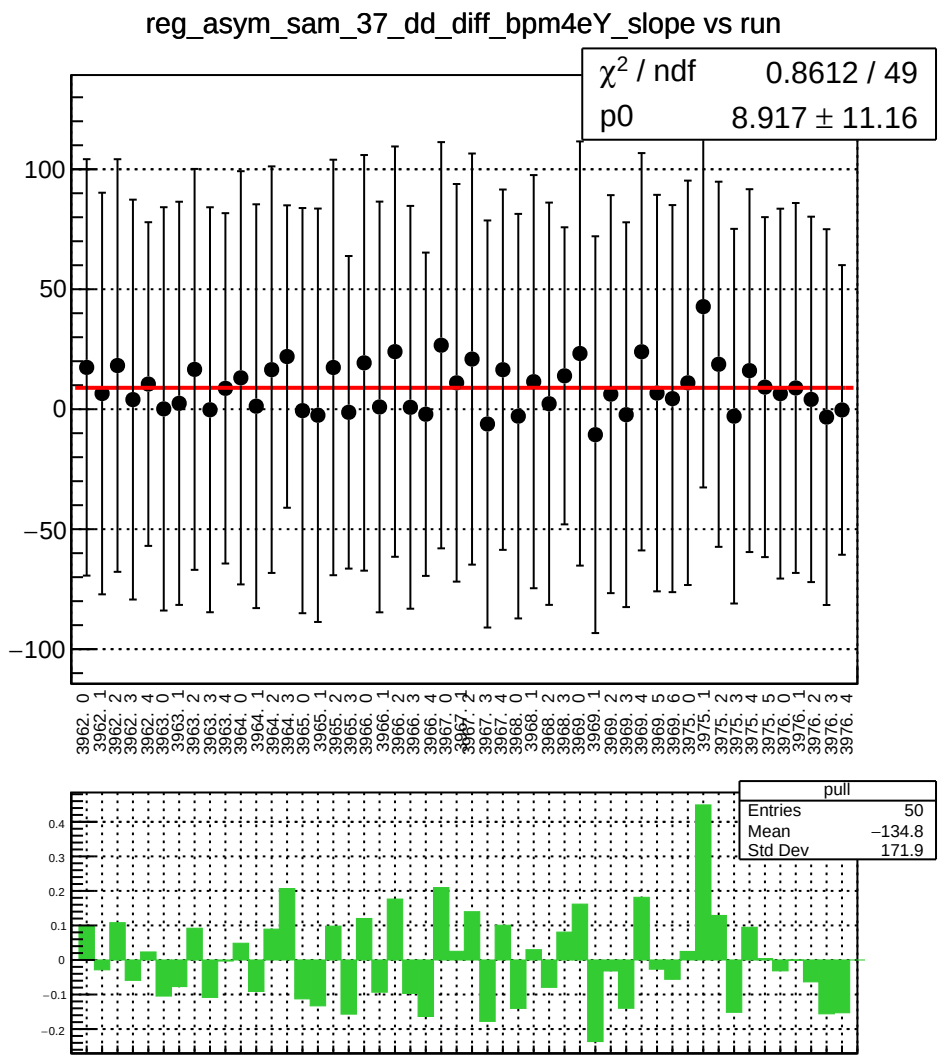

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.702 / 49
p0 135.1 ± 9.528
250
200
150
100
50
pull
Entries 50
Mean −115.3
Std Dev 145.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

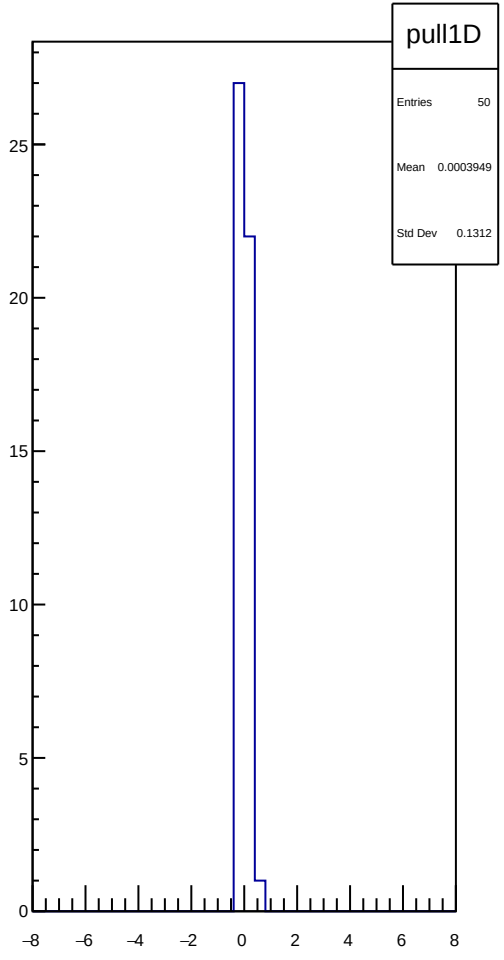

pull1D
Entries 50
Mean 0.01044
Std Dev 0.2719
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

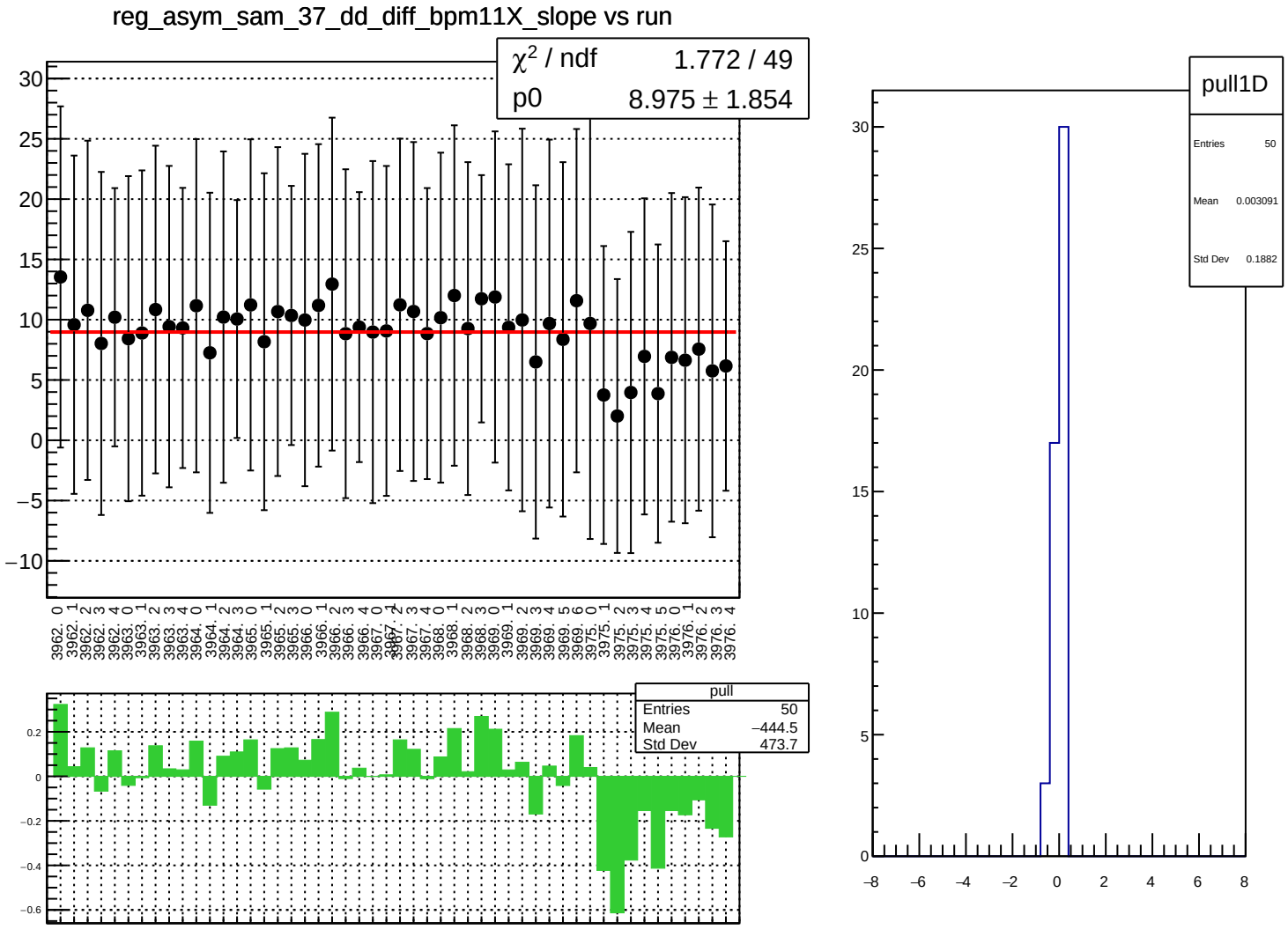

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9445 / 49
p0 −6.331 ± 6.675
pull
Entries 50
Mean 466.9
Std Dev 443.1

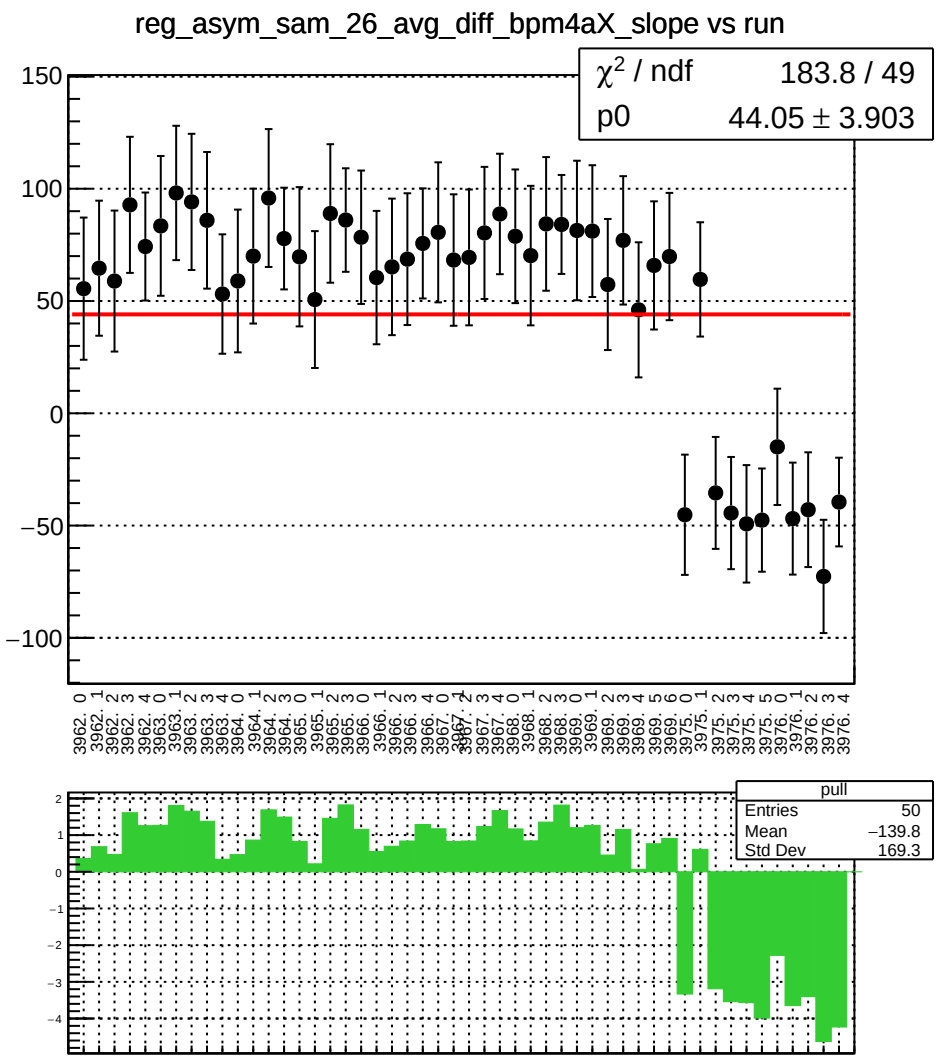

pull1D
Entries 50
Mean −0.0004524
Std Dev 0.1374

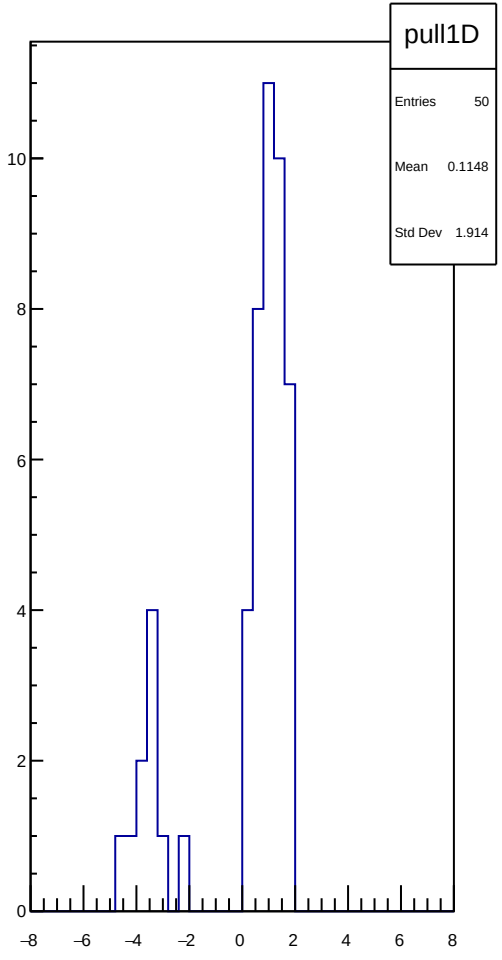

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.79 / 49
p0 −638.3 ± 1.63
pull
Entries 50
Mean −84.43
Std Dev 111.1
pull1D
Entries 50
Mean 0.05431
Std Dev 0.6267

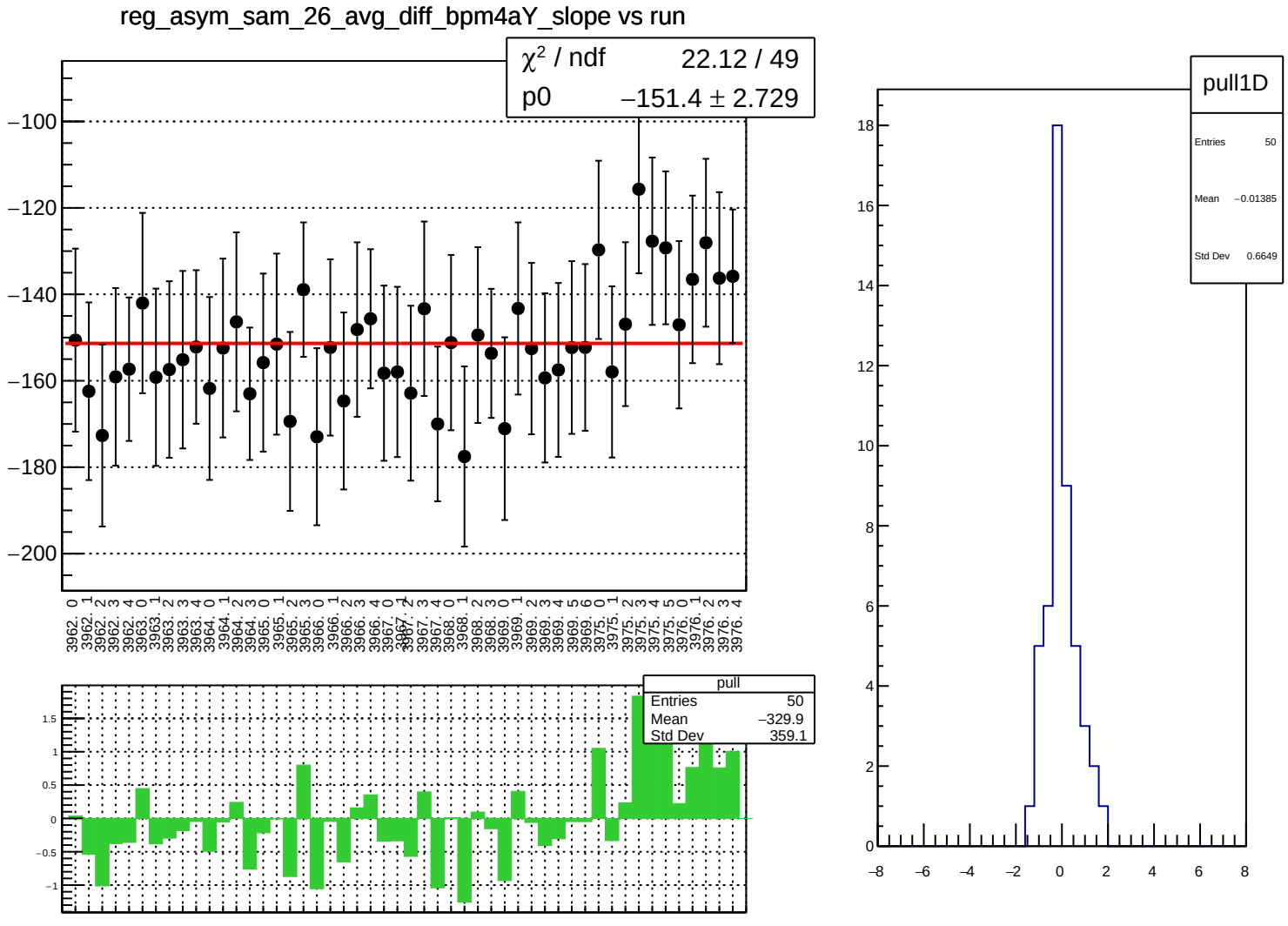

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8612 / 49
p0 8.917 ± 11.16
100
50
0
−50
−100
pull
Entries 50
Mean −134.8
Std Dev 171.9
0.4
0.3
0.2
0.1
0
−0.1
−0.2

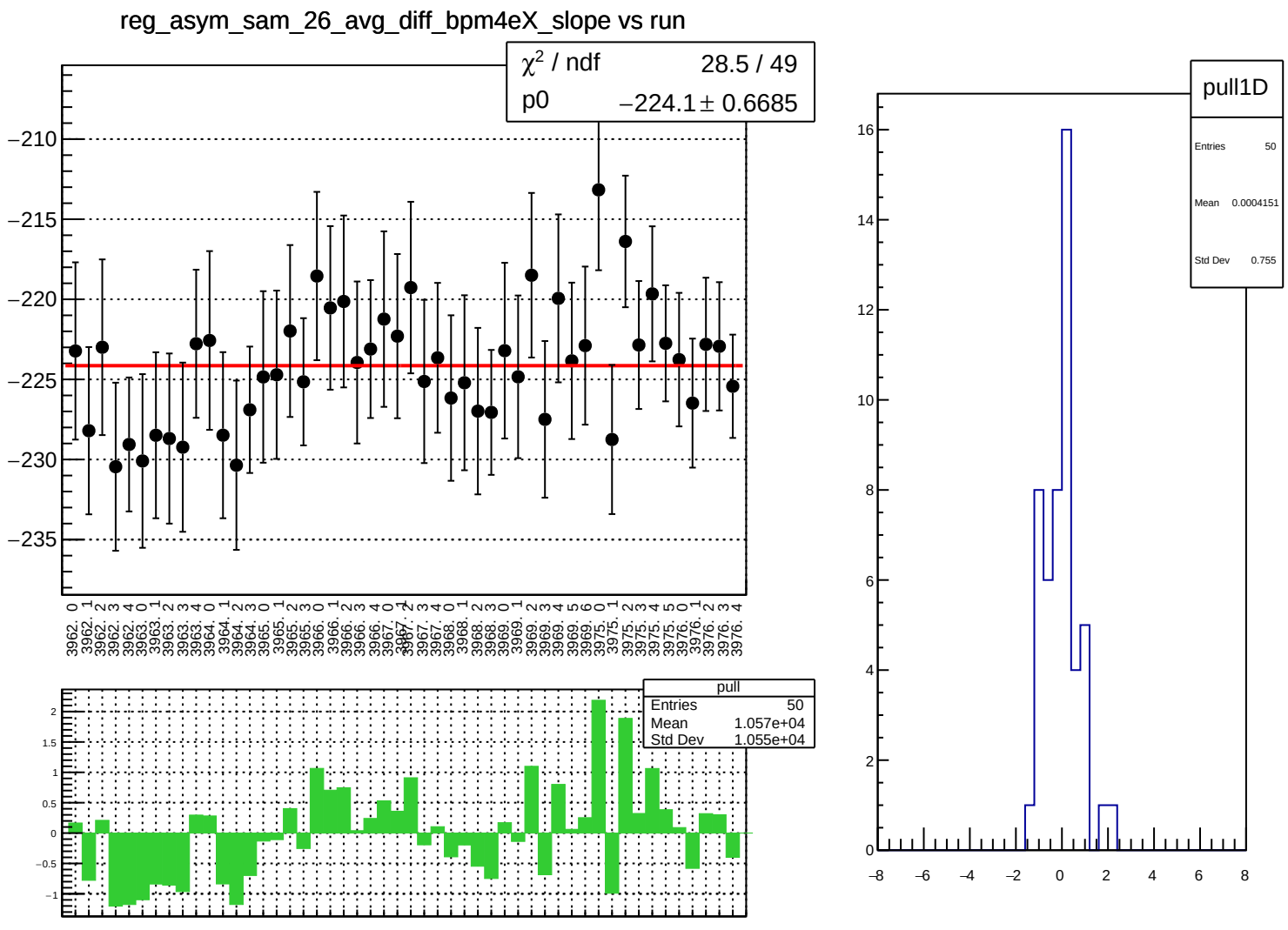

pull1D
Entries 50
Mean 0.0003949
Std Dev 0.1312
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

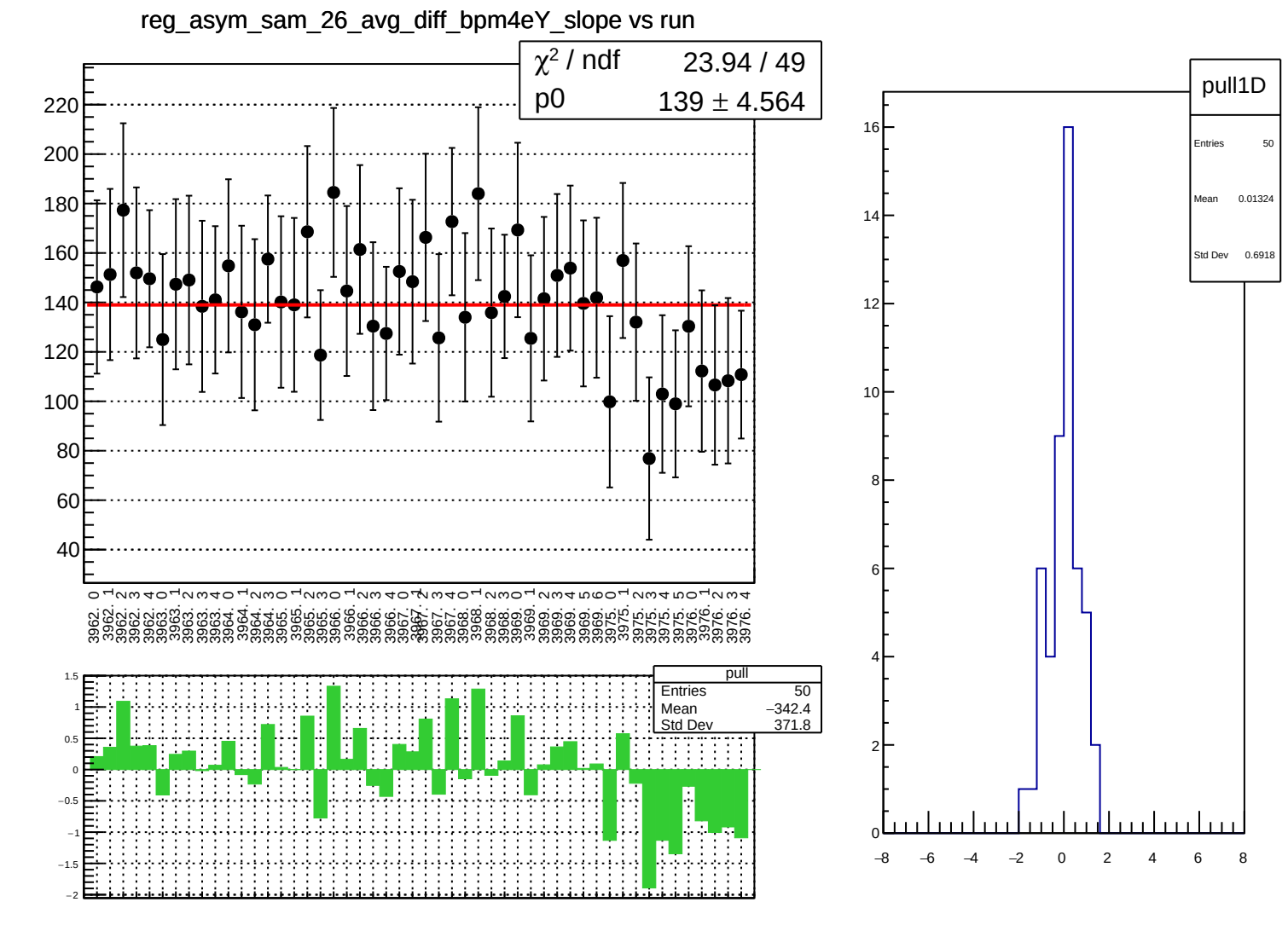

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 1.772 / 49
p0 8.975 ± 1.854
pull
Entries 50
Mean −444.5
Std Dev 473.7
pull1D
Entries 50
Mean 0.003091
Std Dev 0.1882

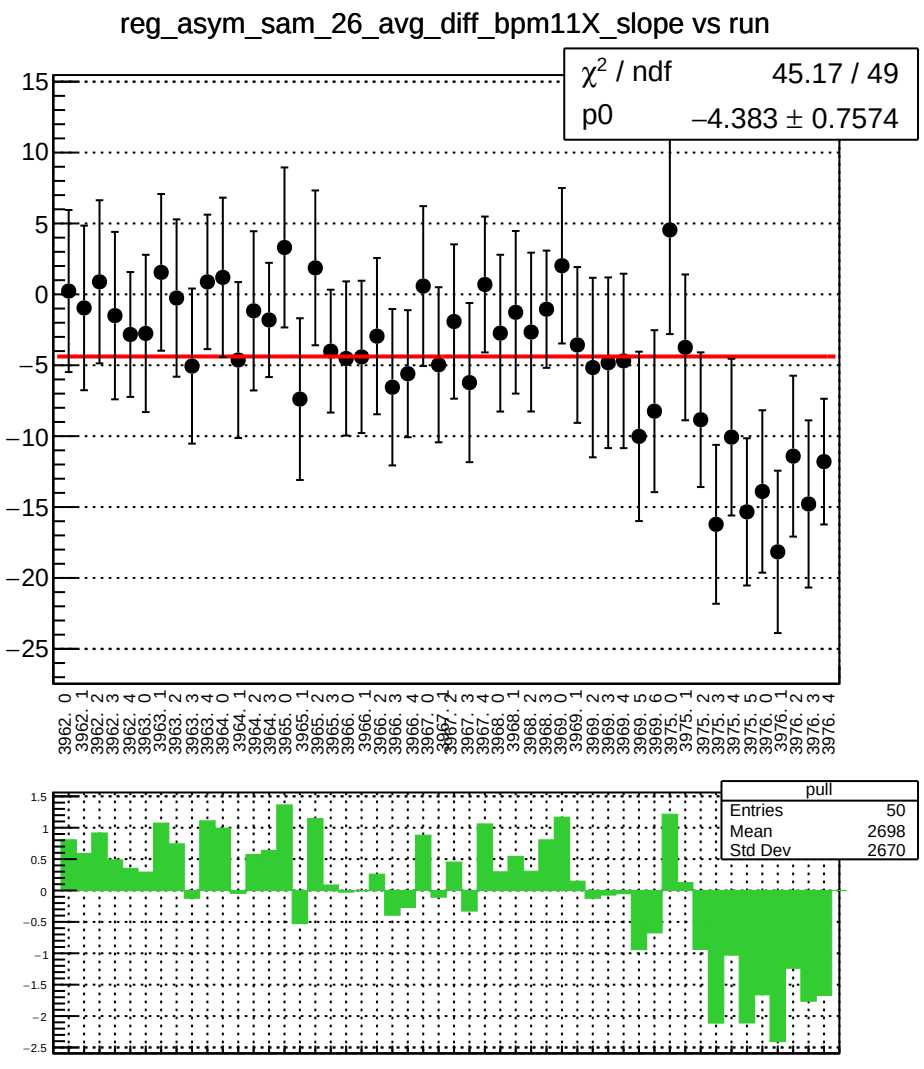

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 183.8 / 49
p0 44.05 ± 3.903
150
100
50
0
−50
−100
pull
Entries 50
Mean −139.8
Std Dev 169.3
2
1
0
−1
−2
−3
−4

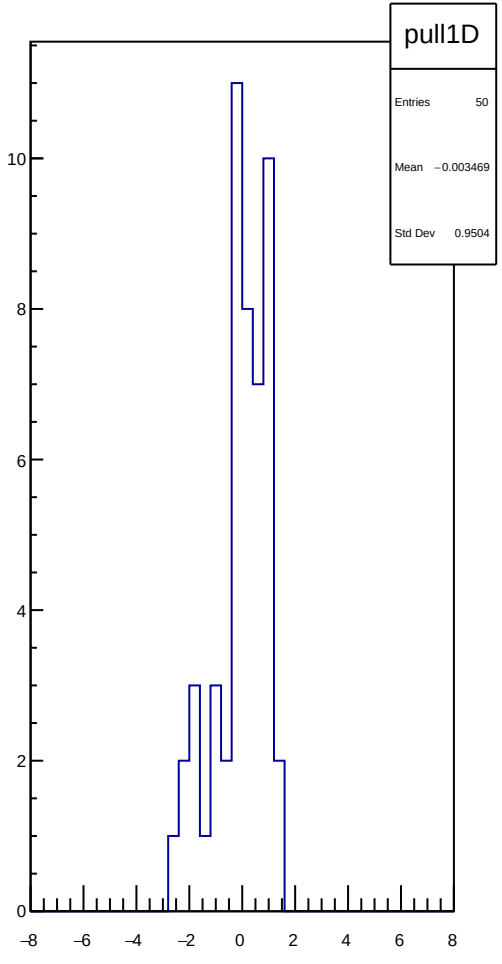

pull1D
Entries 50
Mean 0.1148
Std Dev 1.914
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

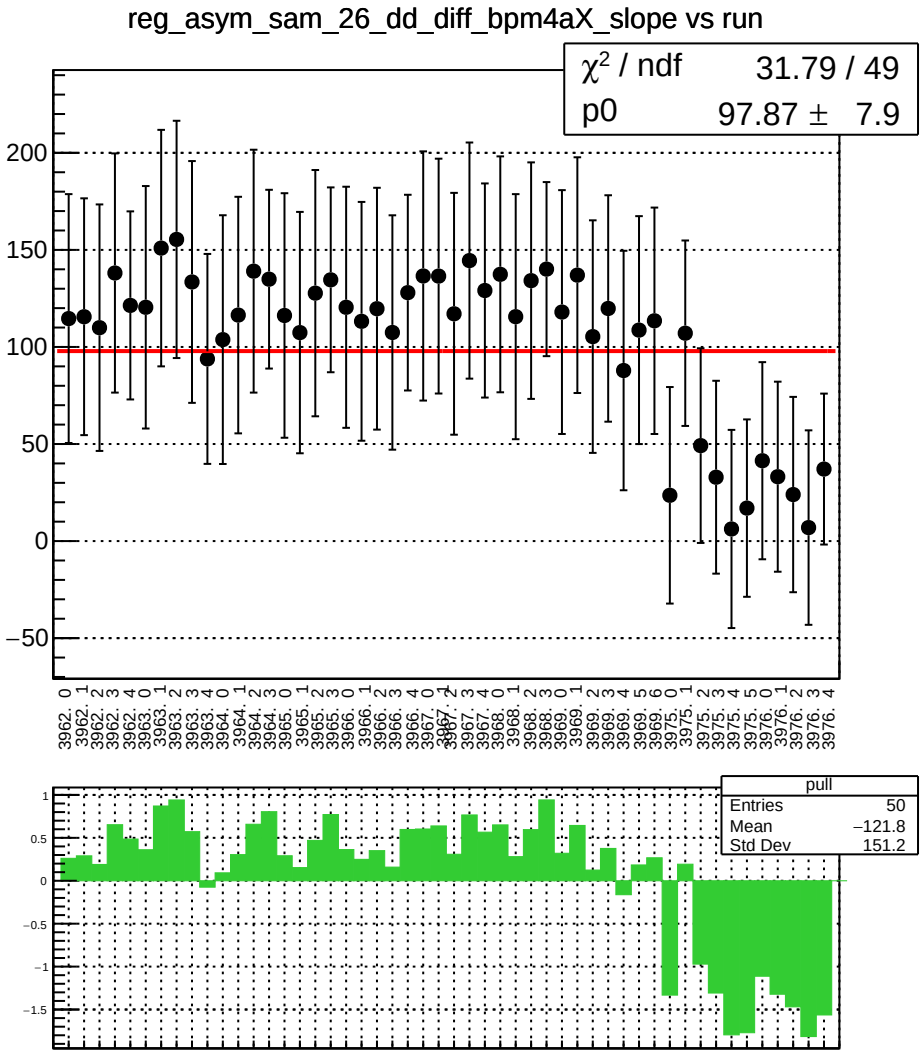

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.12 / 49
p0 −151.4 ± 2.729
−100
−120
−140
−160
−180
−200
pull
Entries 50
Mean −329.9
Std Dev 359.1
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean −0.01385
Std Dev 0.6649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

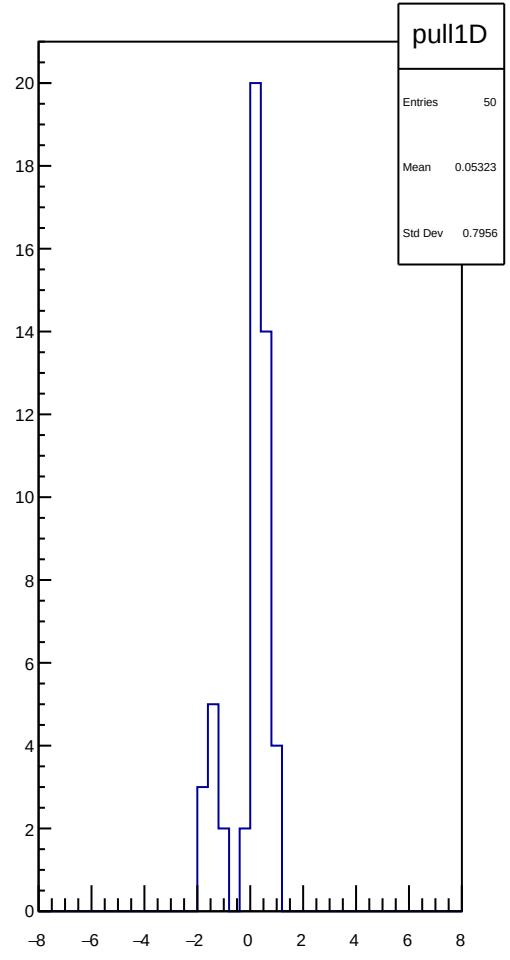

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.5 / 49
p0 −224.1 ± 0.6685
pull
Entries 50
Mean 1.057e+04
Std Dev 1.055e+04
pull1D
Entries 50
Mean 0.0004151
Std Dev 0.755

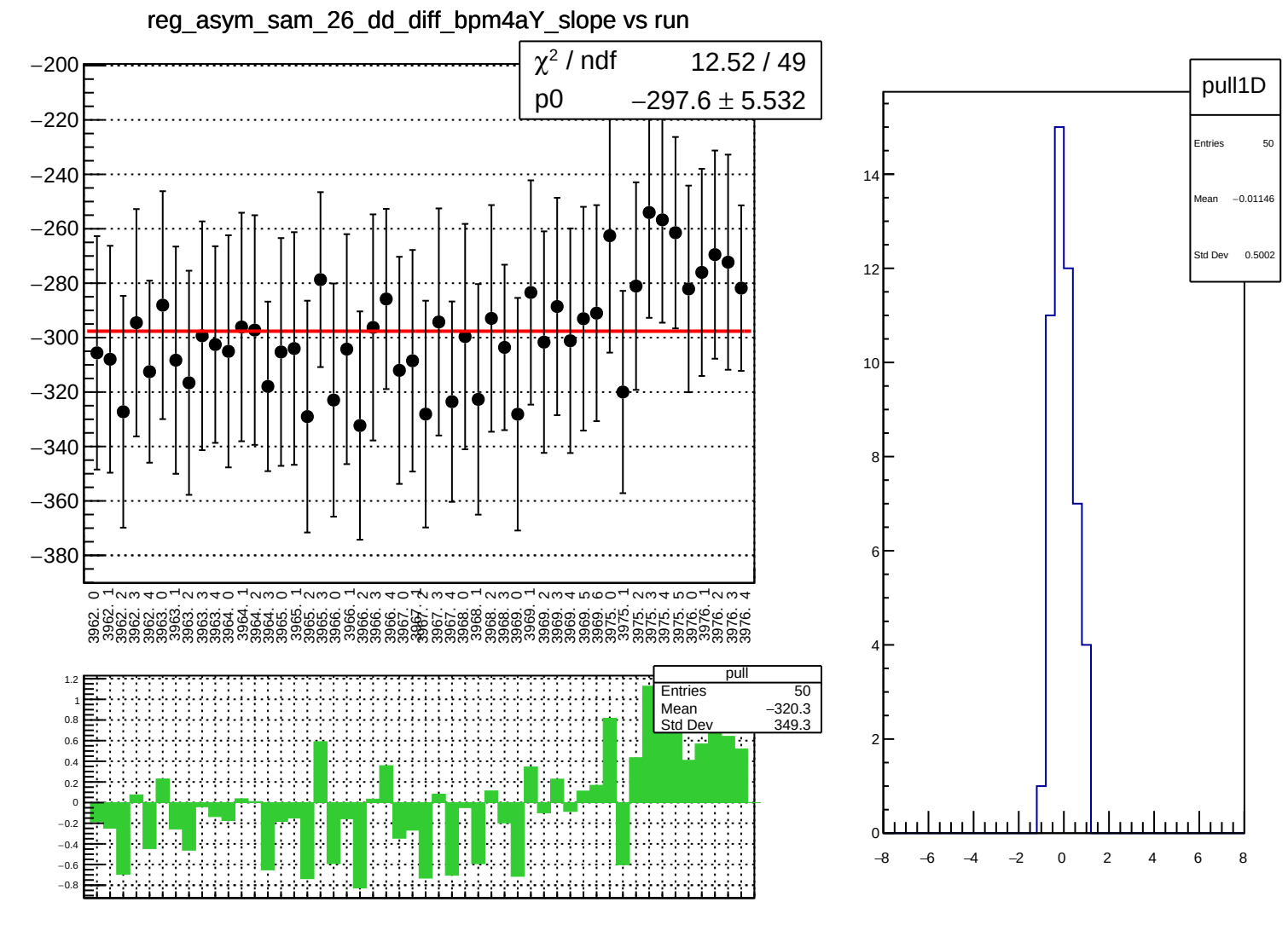

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.94 / 49
p0 139 ± 4.564
pull
Entries 50
Mean −342.4
Std Dev 371.8
pull1D
Entries 50
Mean 0.01324
Std Dev 0.6918

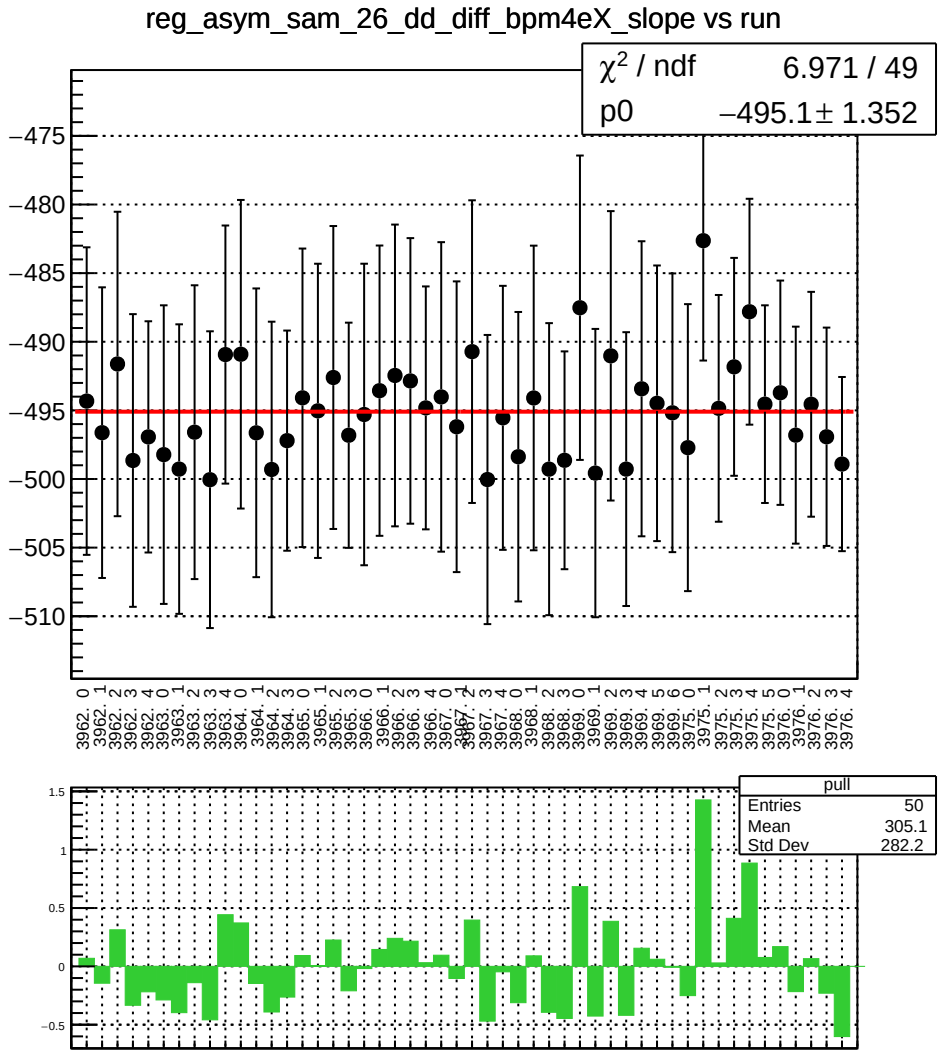

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 45.17 / 49
p0 −4.383 ± 0.7574
pull
Entries 50
Mean 2698
Std Dev 2670

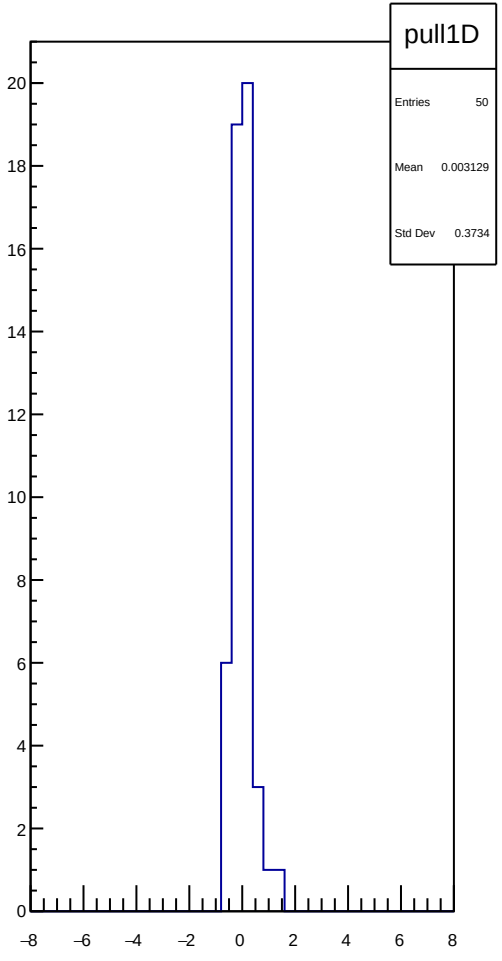

pull1D
Entries 50
Mean −0.003469
Std Dev 0.9504

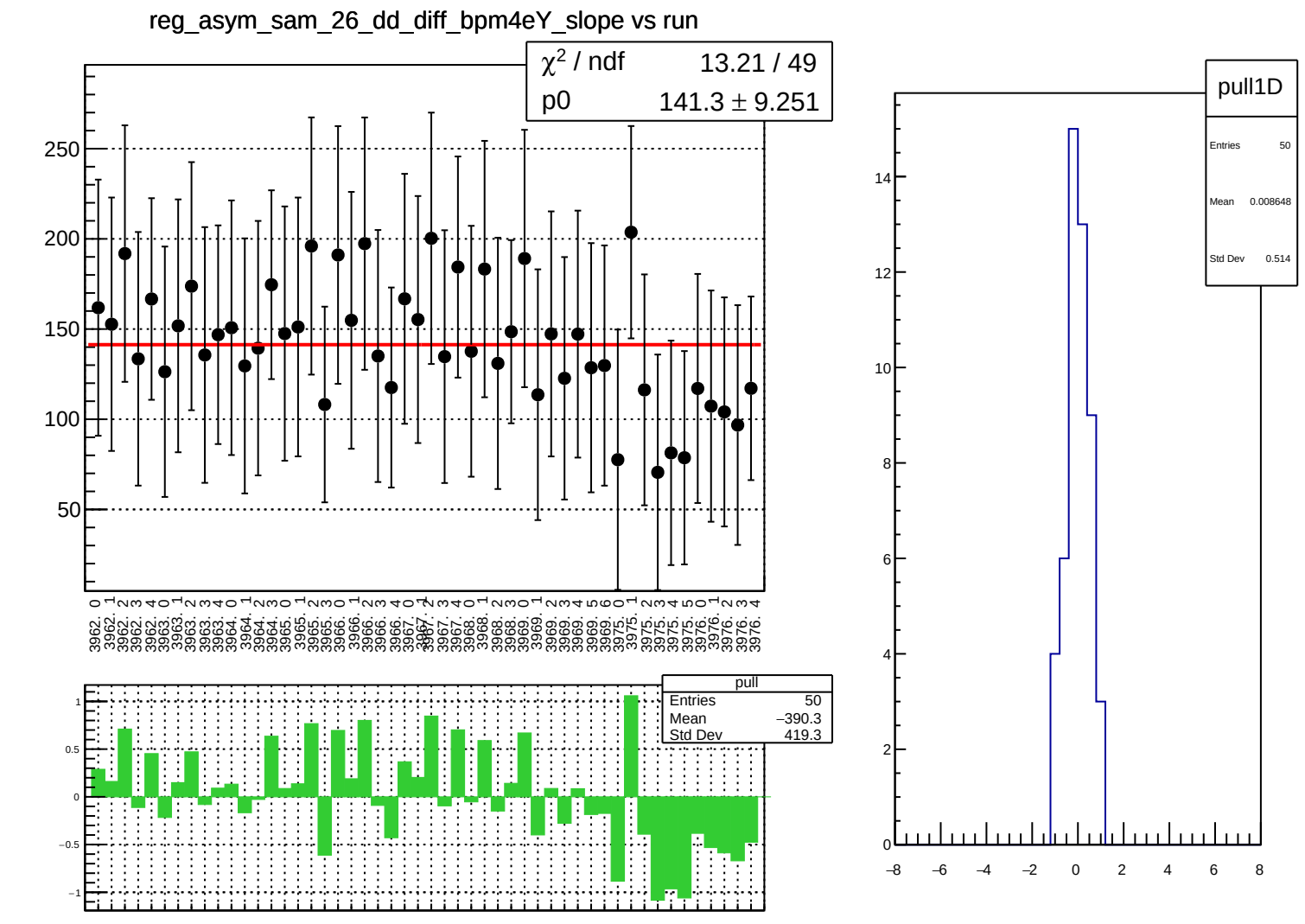

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.79 / 49
p0 97.87 ± 7.9
200
150
100
50
0
−50
pull
Entries 50
Mean −121.8
Std Dev 151.2
1
0.5
0
−0.5
−1
−1.5

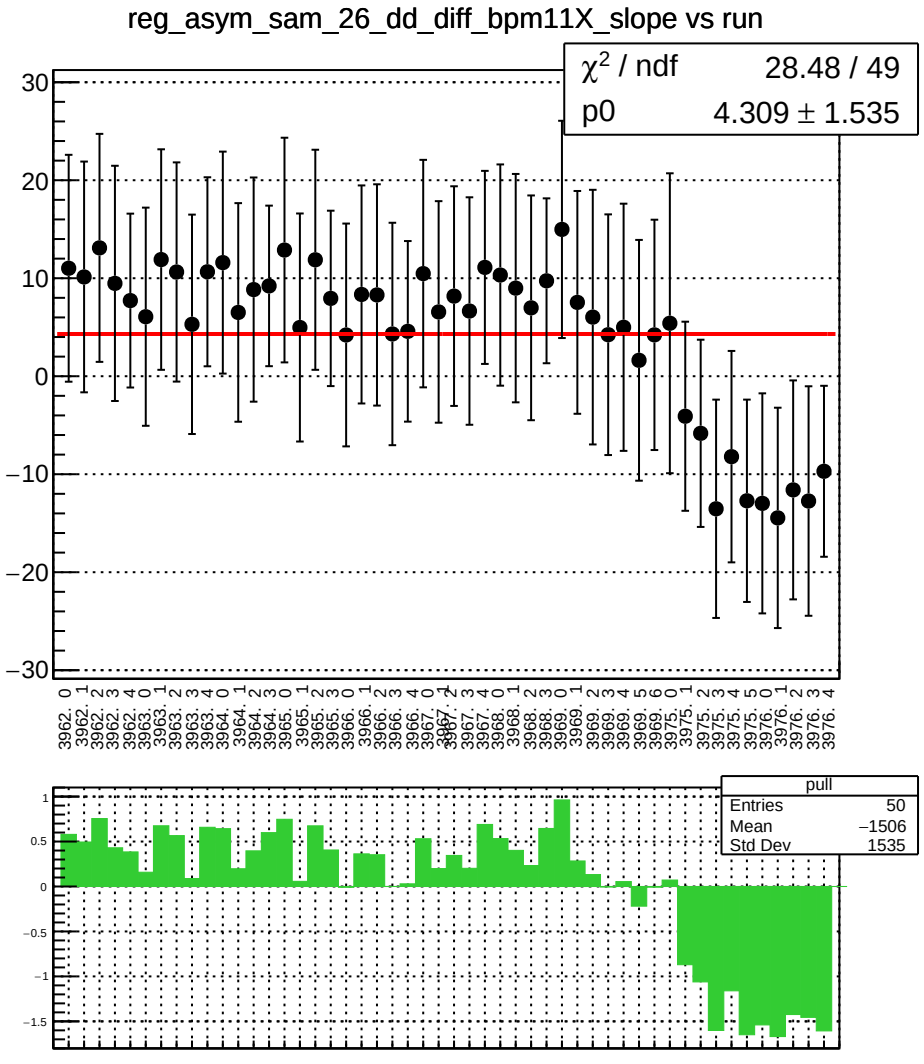

pull1D
Entries 50
Mean 0.05323
Std Dev 0.7956
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

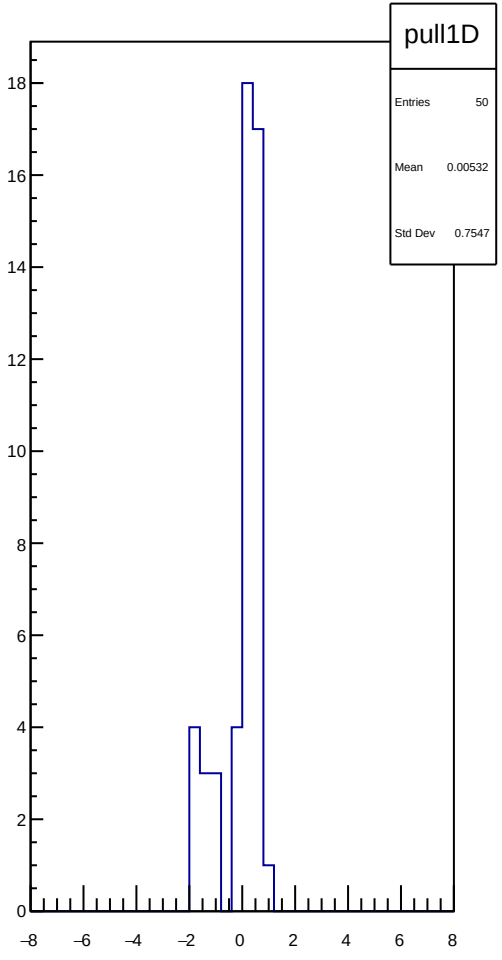

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.52 / 49
p0 −297.6 ± 5.532
pull
Entries 50
Mean −320.3
Std Dev 349.3
pull1D
Entries 50
Mean −0.01146
Std Dev 0.5002

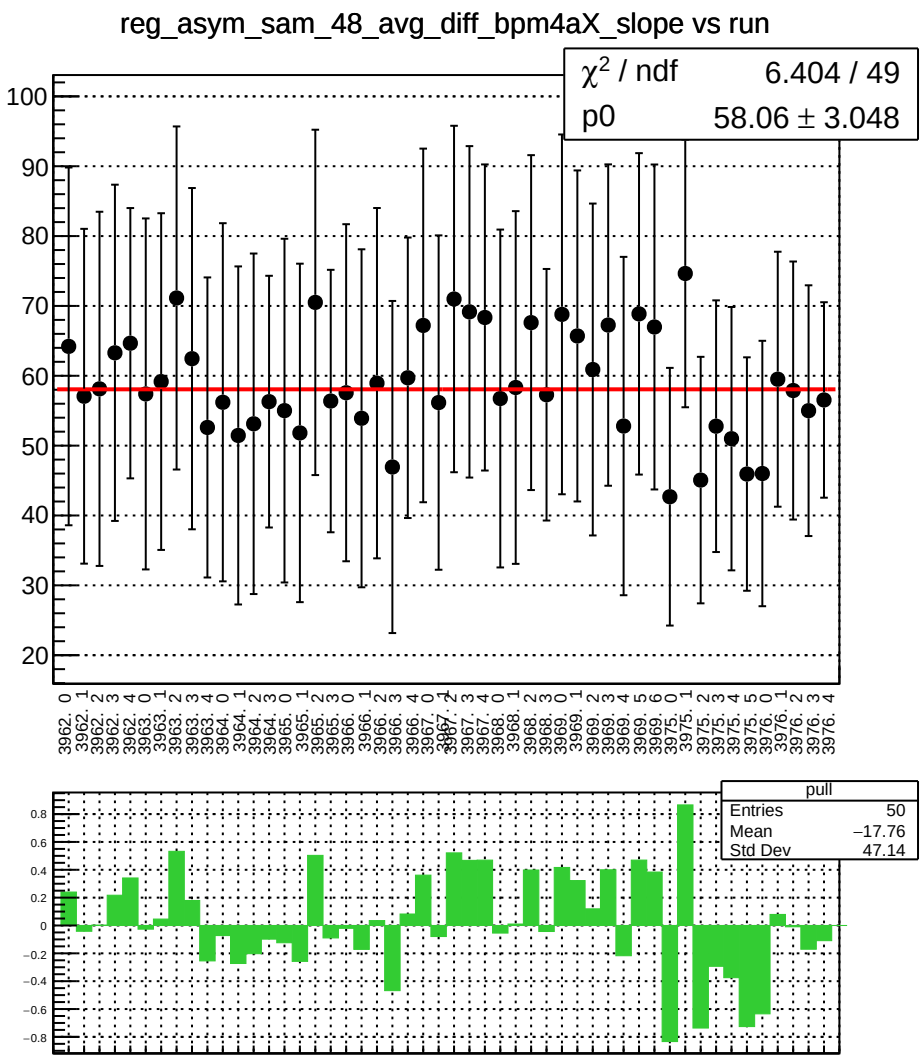

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.971 / 49
p0 −495.1± 1.352
pull
Entries 50
Mean 305.1
Std Dev 282.2

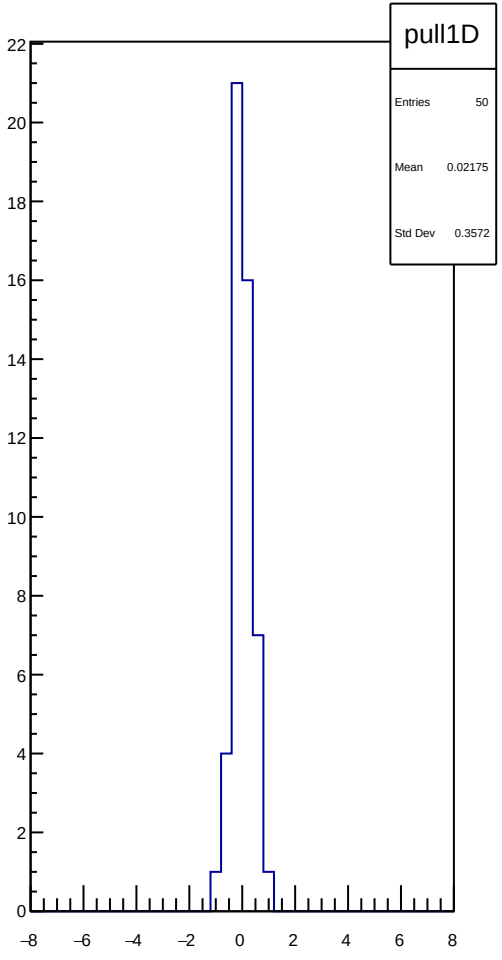

pull1D
Entries 50
Mean 0.003129
Std Dev 0.3734

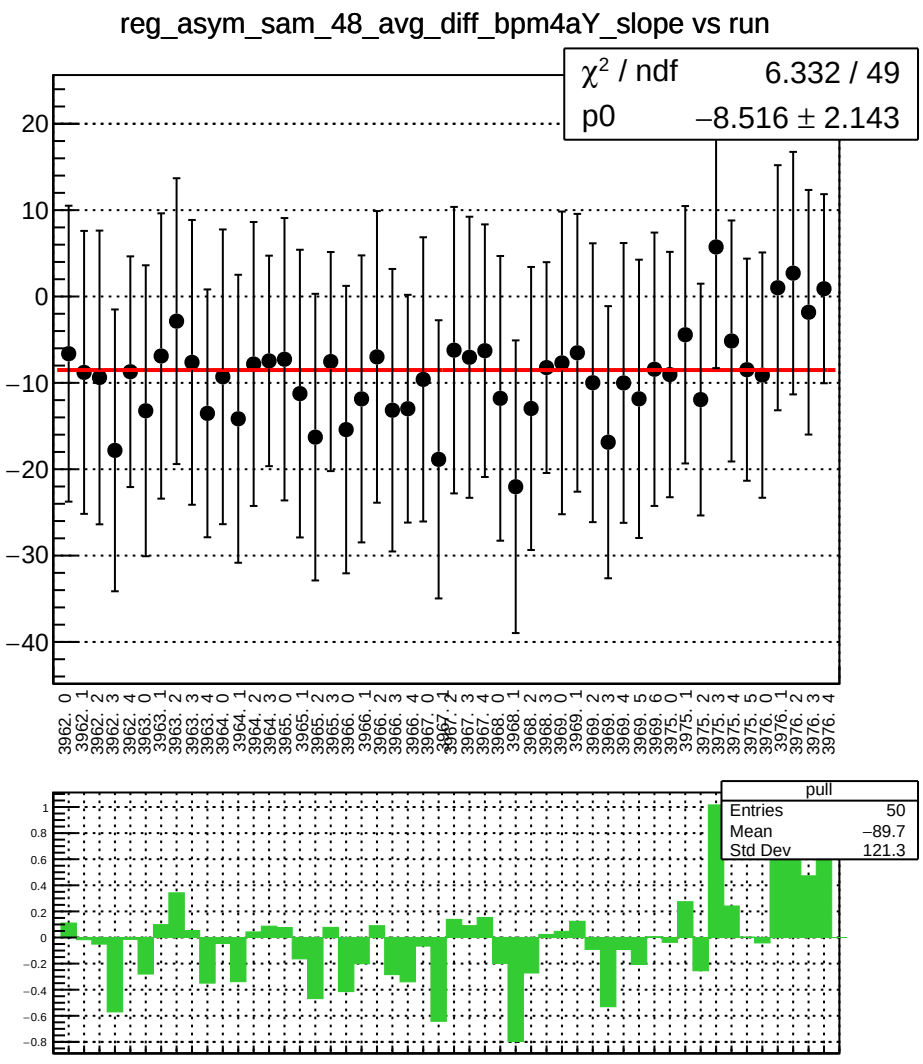

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.21 / 49
p0 141.3 ± 9.251
250
200
150
100
50
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −390.3
Std Dev 419.3
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean 0.008648
Std Dev 0.514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

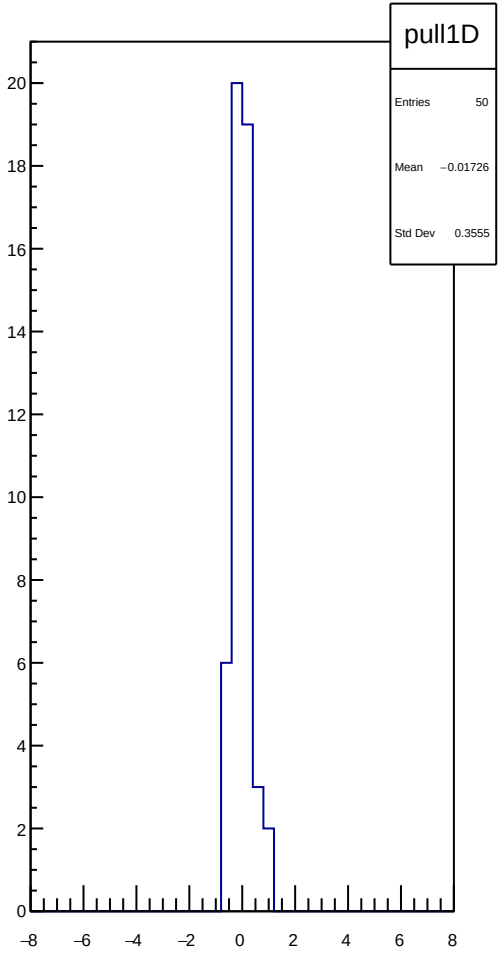

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 28.48 / 49
p0 4.309 ± 1.535
pull
Entries 50
Mean −1506
Std Dev 1535

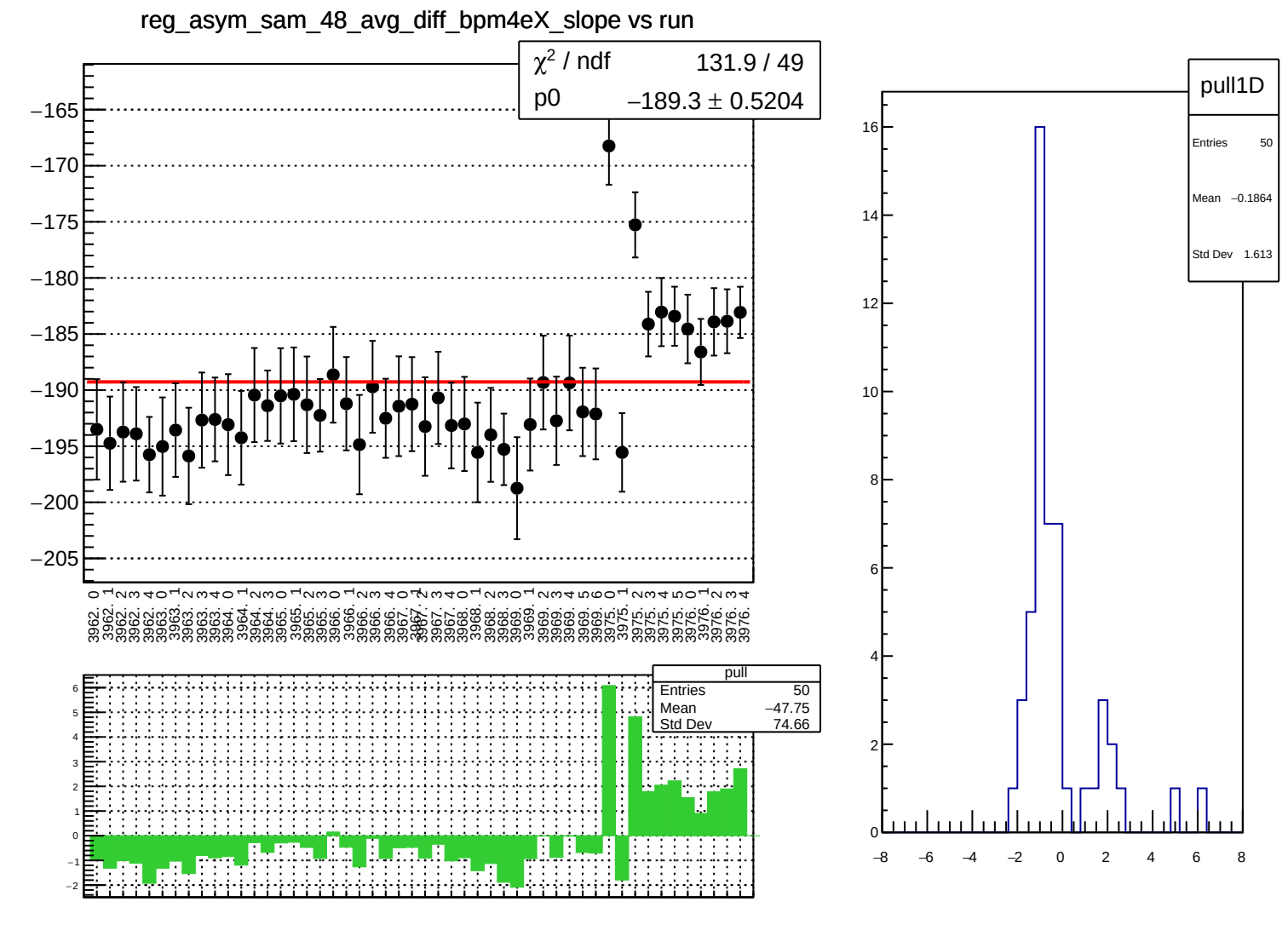

pull1D
Entries 50
Mean 0.00532
Std Dev 0.7547

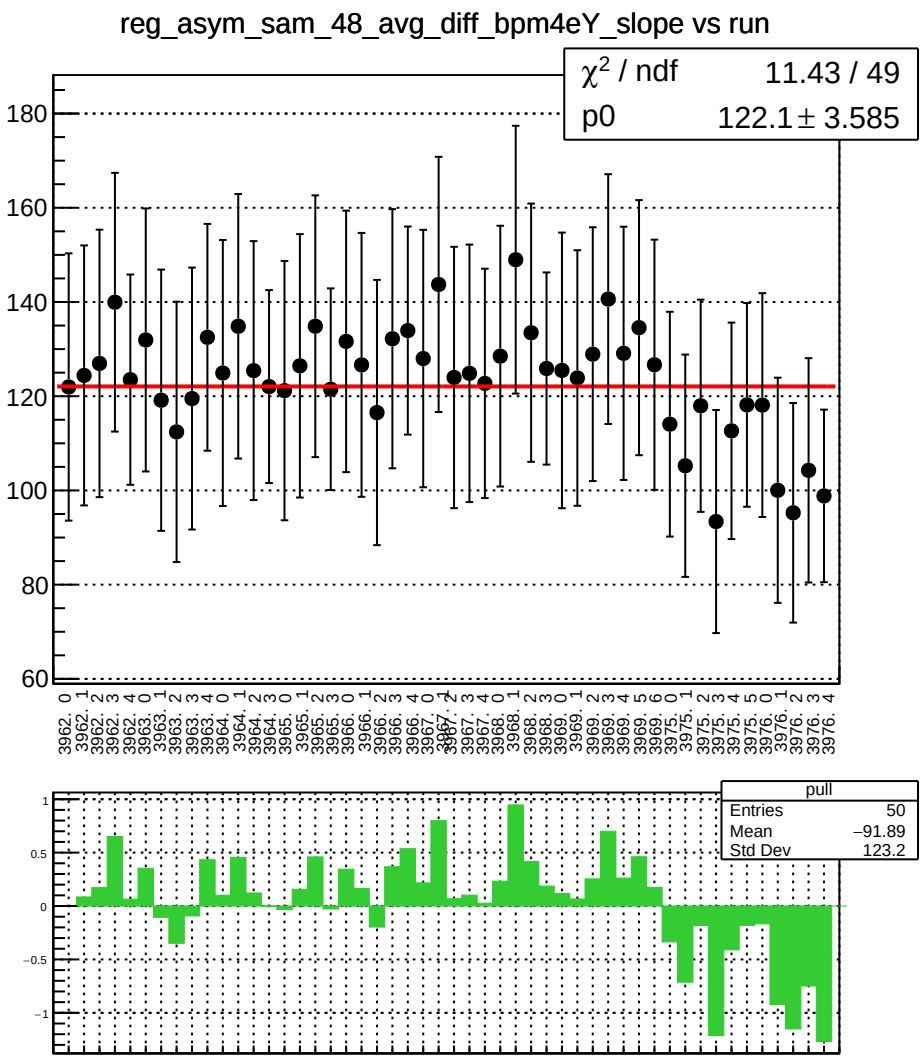

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.404 / 49
p0 58.06 ± 3.048
pull
Entries 50
Mean −17.76
Std Dev 47.14

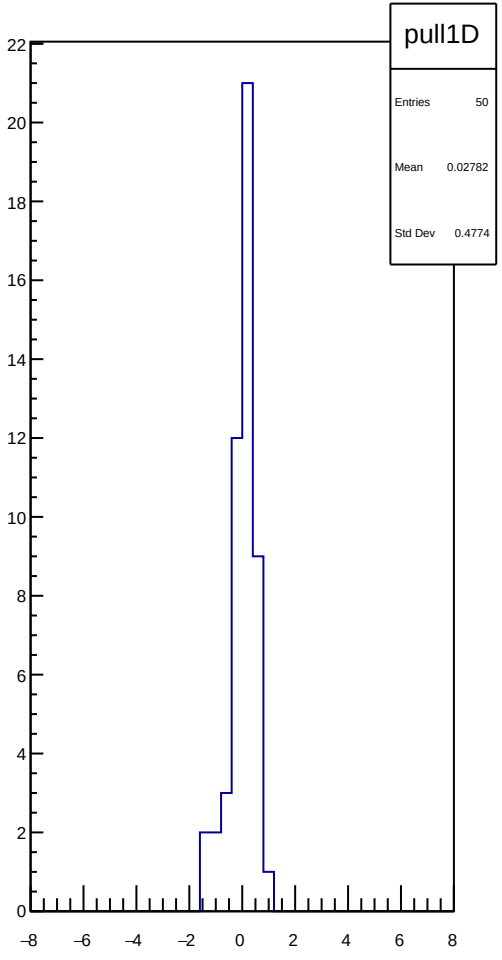

pull1D
Entries 50
Mean 0.02175
Std Dev 0.3572

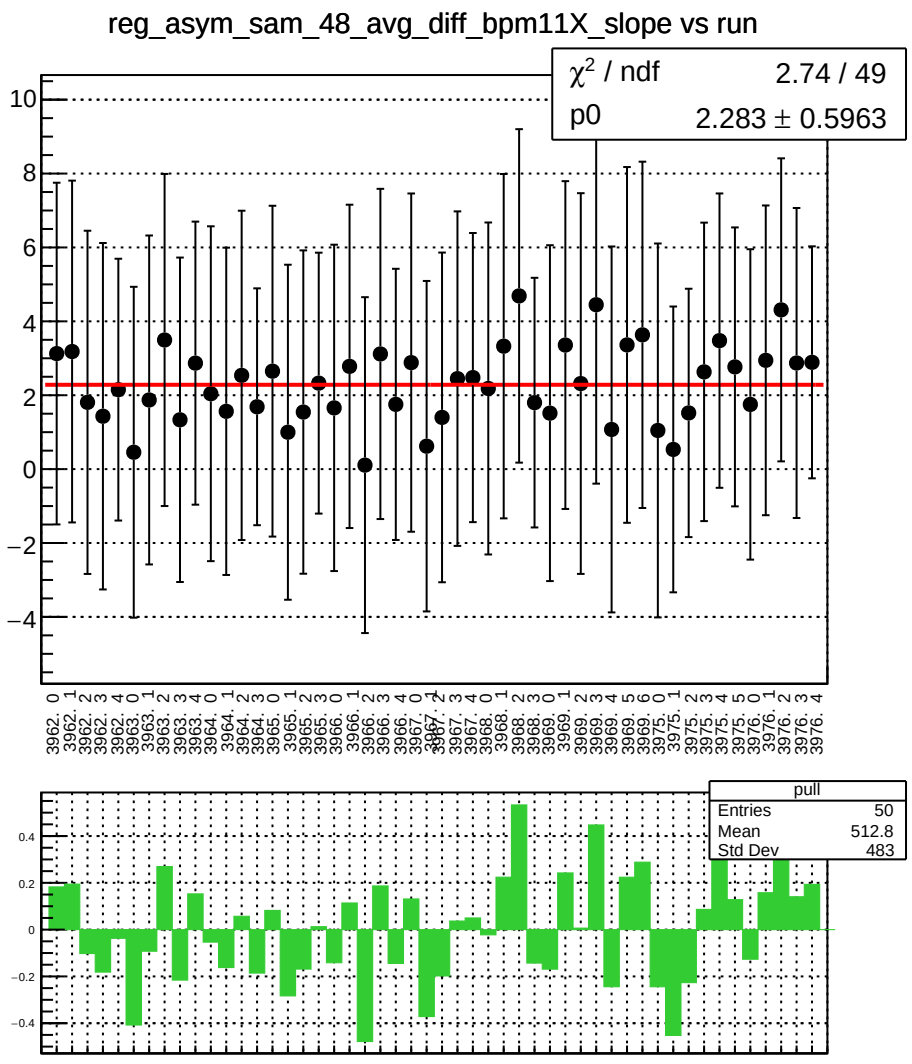

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.332 / 49
p0 −8.516 ± 2.143
pull
Entries 50
Mean −89.7
Std Dev 121.3

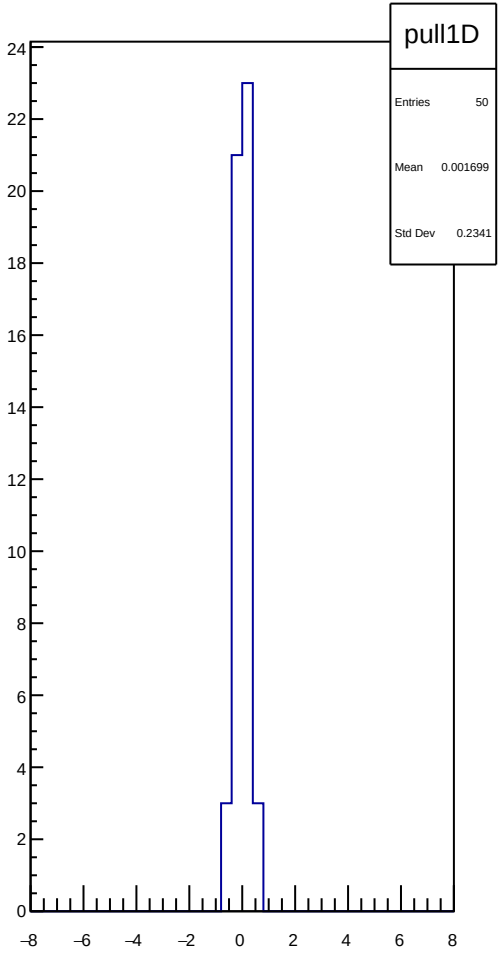

pull1D
Entries 50
Mean −0.01726
Std Dev 0.3555

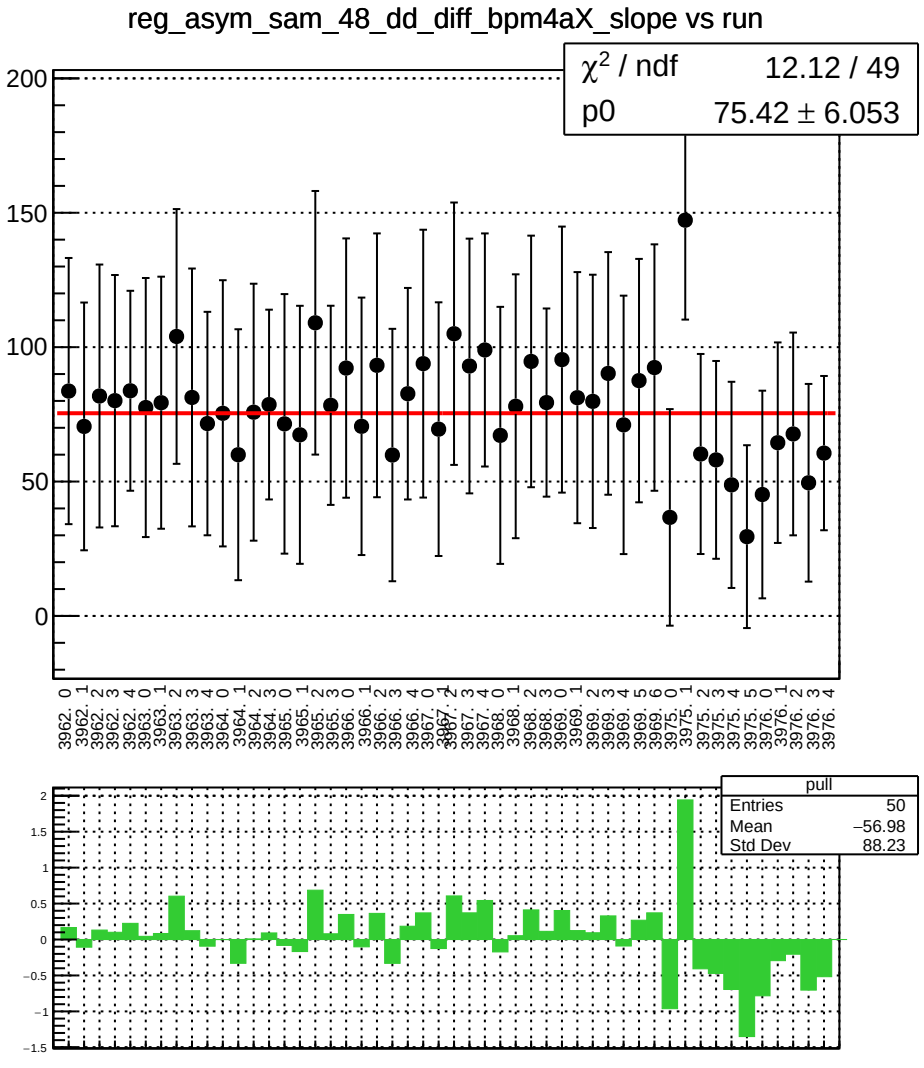

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 131.9 / 49
p0 −189.3 ± 0.5204
pull
Entries 50
Mean −47.75
Std Dev 74.66
pull1D
Entries 50
Mean −0.1864
Std Dev 1.613

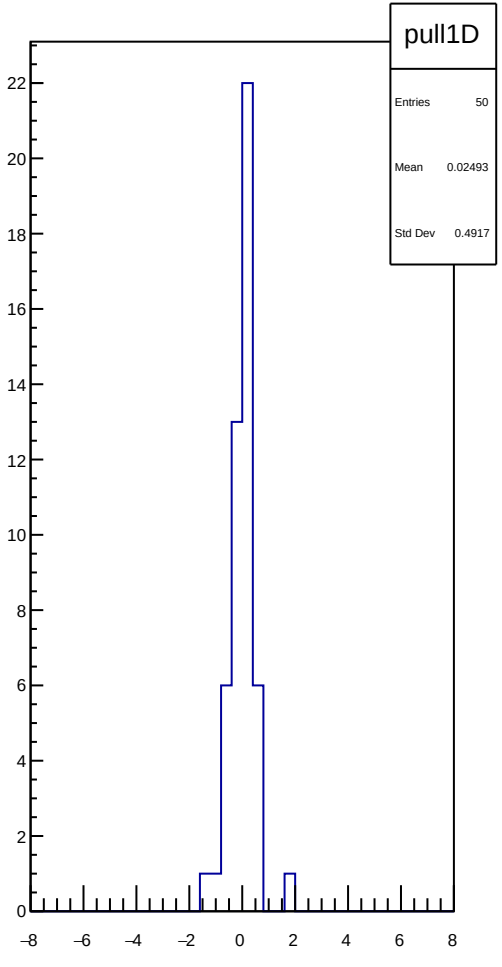

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.43 / 49
p0 122.1 ± 3.585
pull
Entries 50
Mean −91.89
Std Dev 123.2

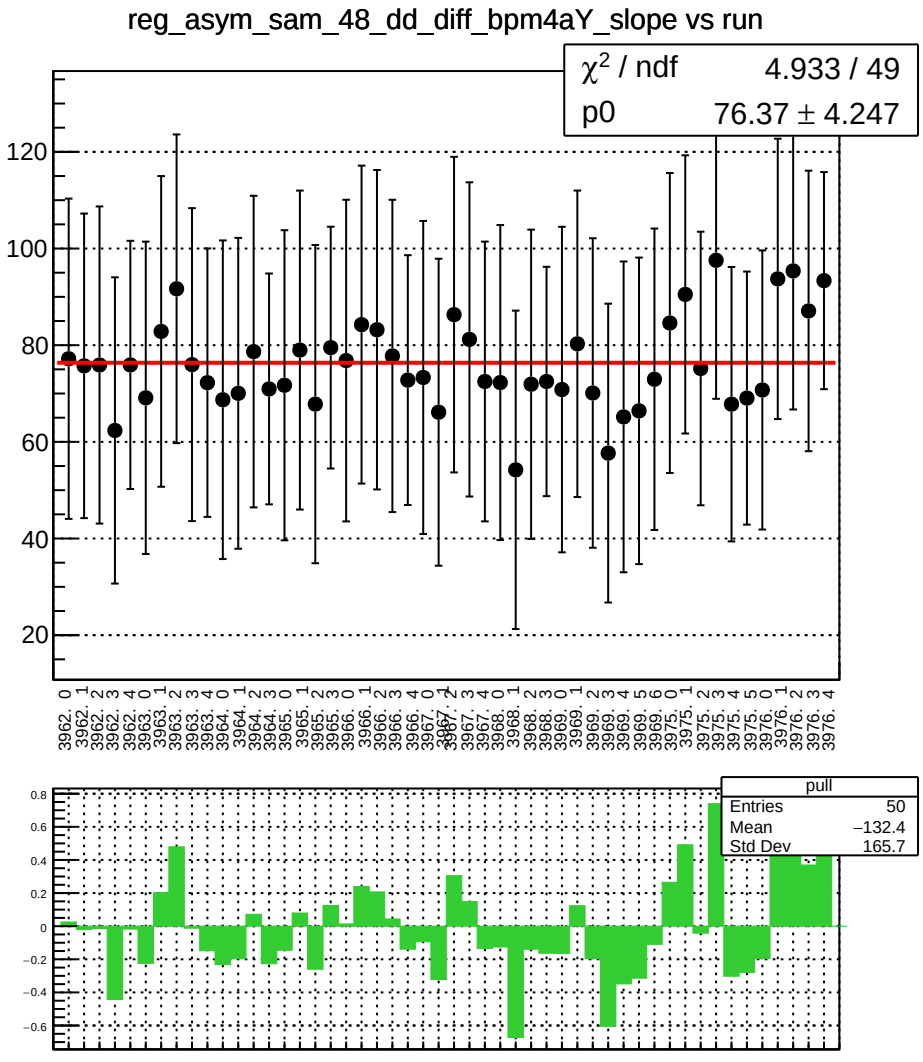

pull1D
Entries 50
Mean 0.02782
Std Dev 0.4774

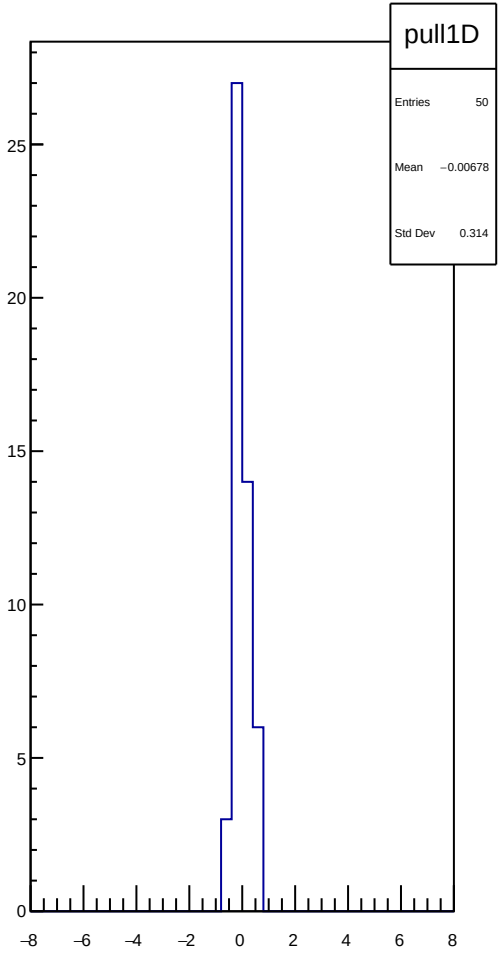

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 2.74 / 49
p0 2.283 ± 0.5963
pull
Entries 50
Mean 512.8
Std Dev 483

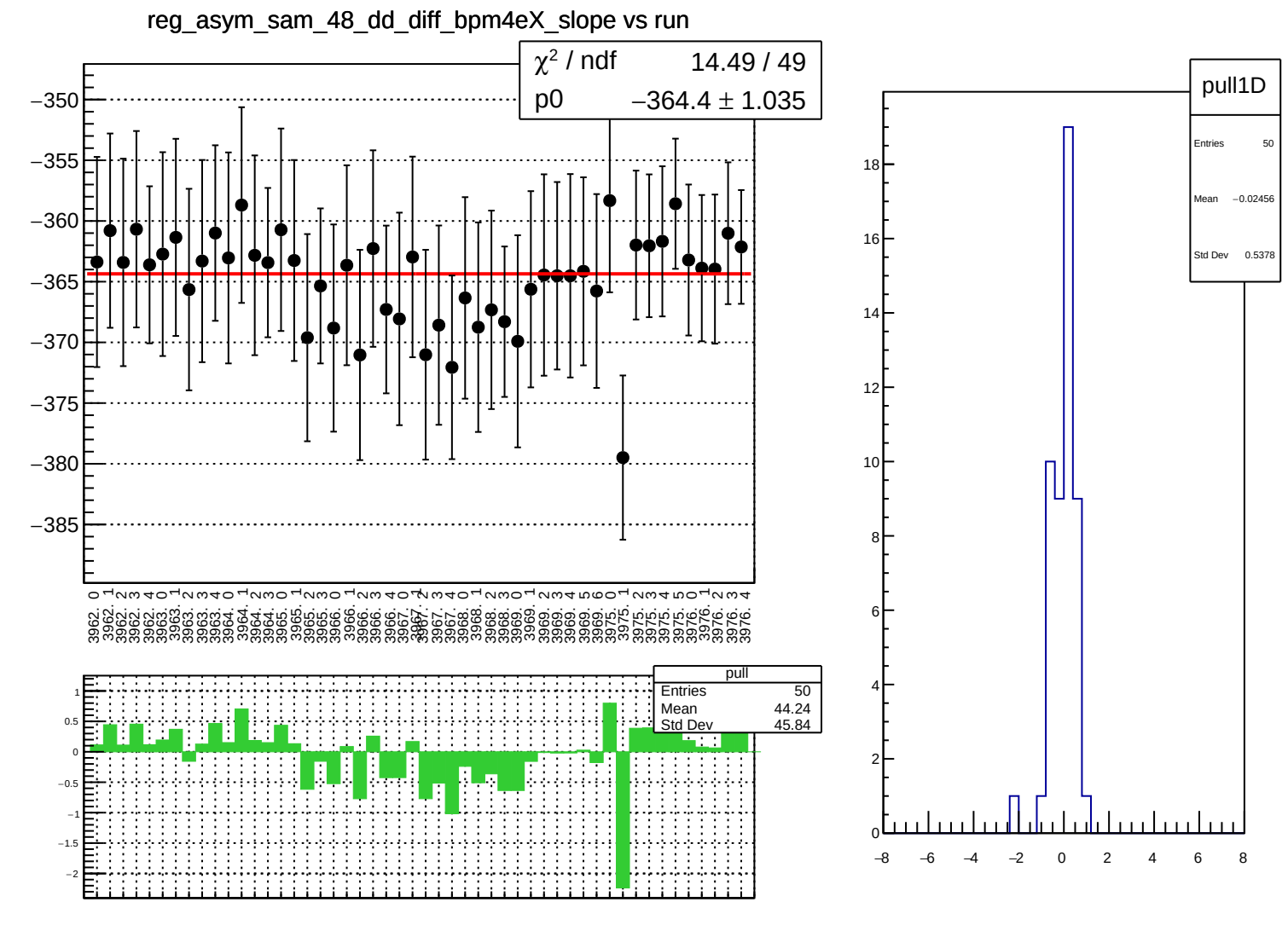

pull1D
Entries 50
Mean 0.001699
Std Dev 0.2341

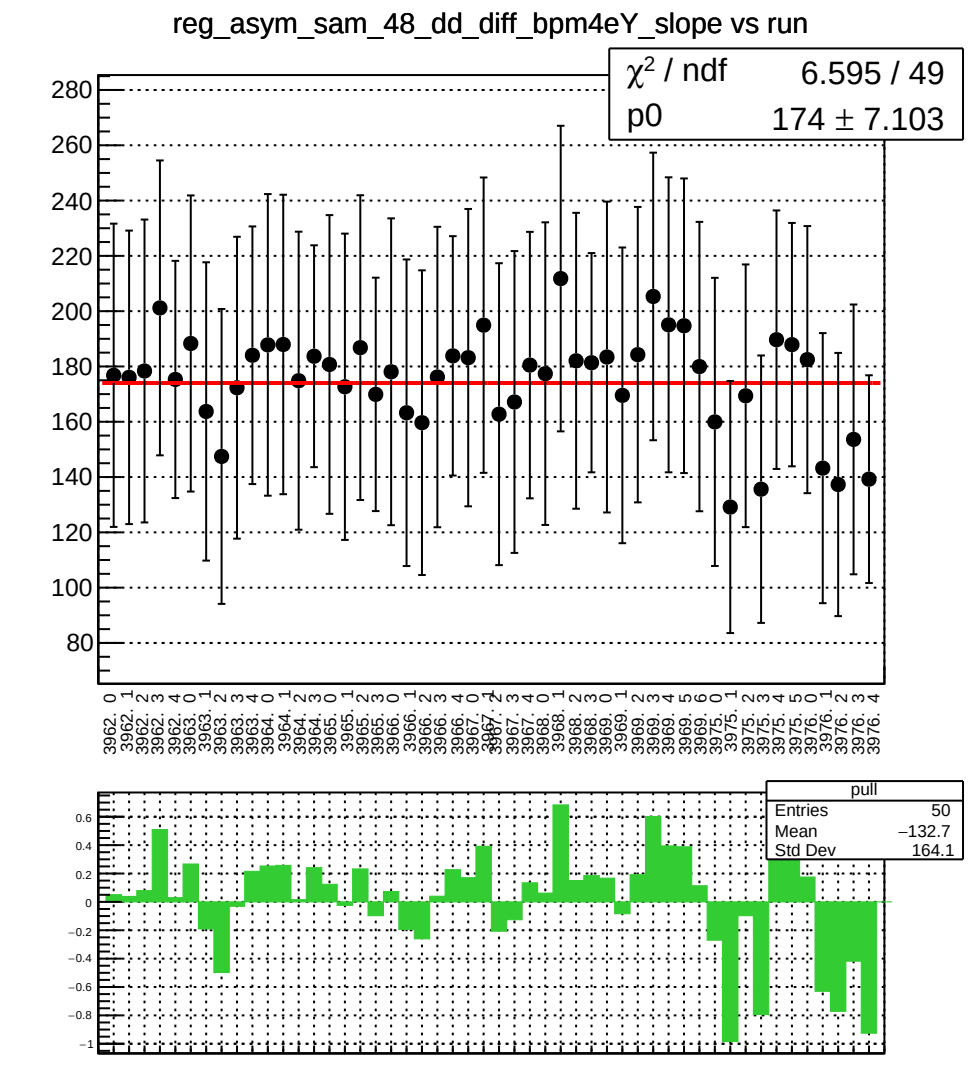

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.12 / 49
p0 75.42 ± 6.053
200
150
100
50
0
pull
Entries 50
Mean −56.98
Std Dev 88.23
2
1.5
1
0.5
0
−0.5
−1
−1.5

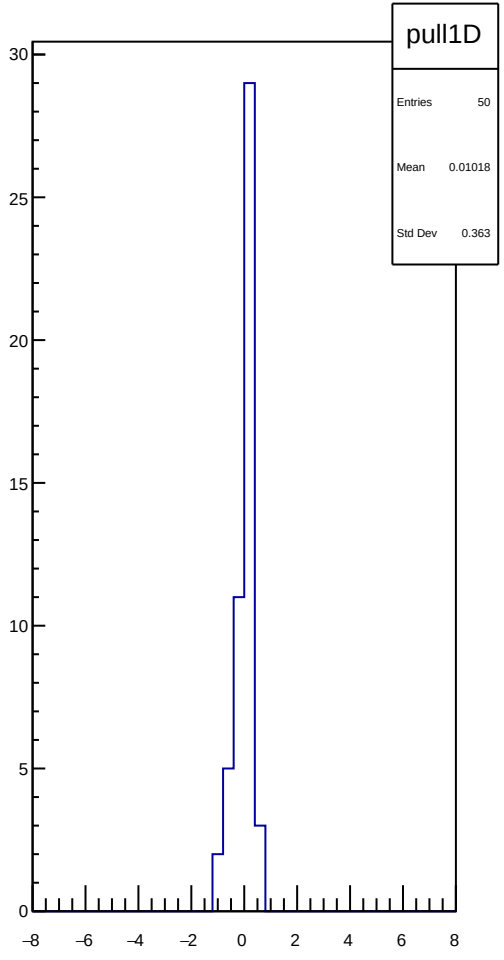

pull1D
Entries 50
Mean 0.02493
Std Dev 0.4917
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

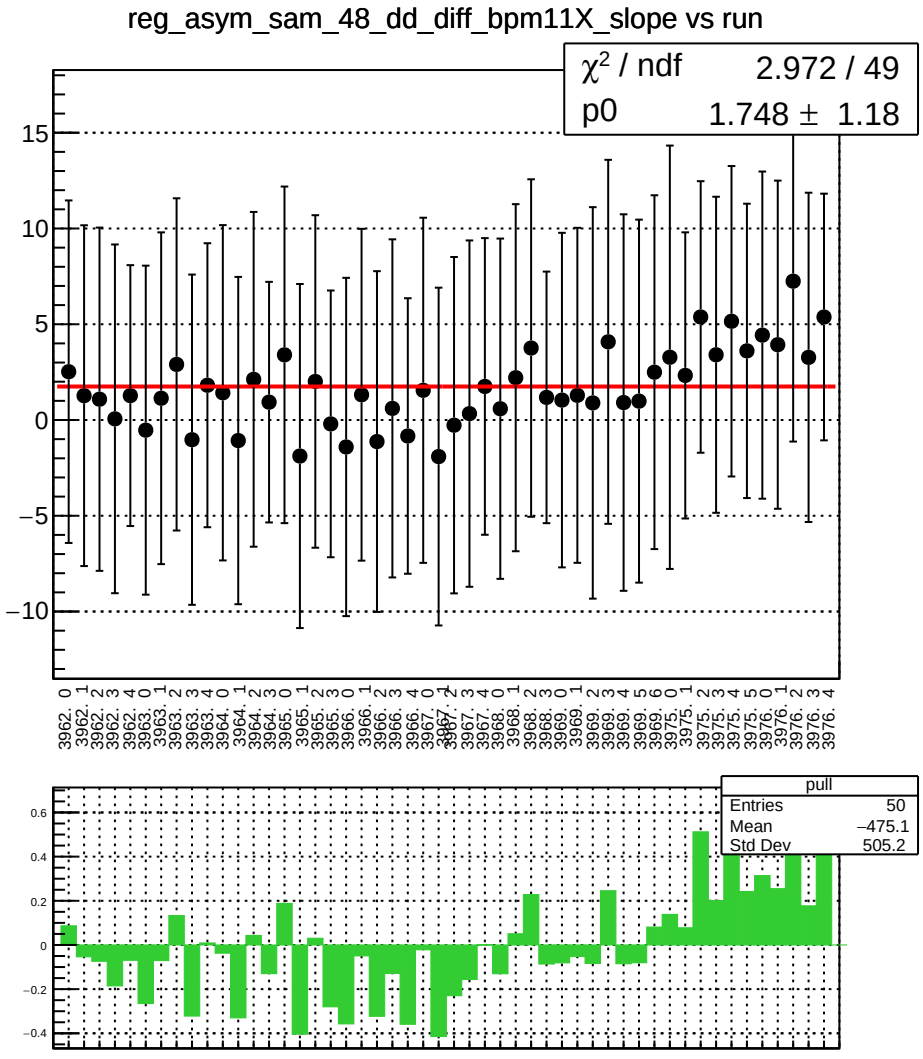

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.933 / 49
p0 76.37 ± 4.247
pull
Entries 50
Mean −132.4
Std Dev 165.7

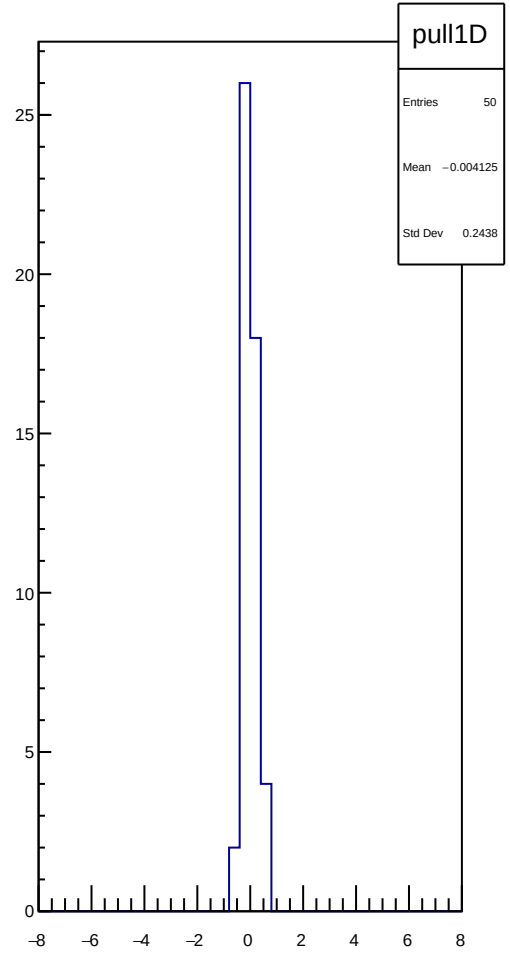

pull1D
Entries 50
Mean −0.00678
Std Dev 0.314

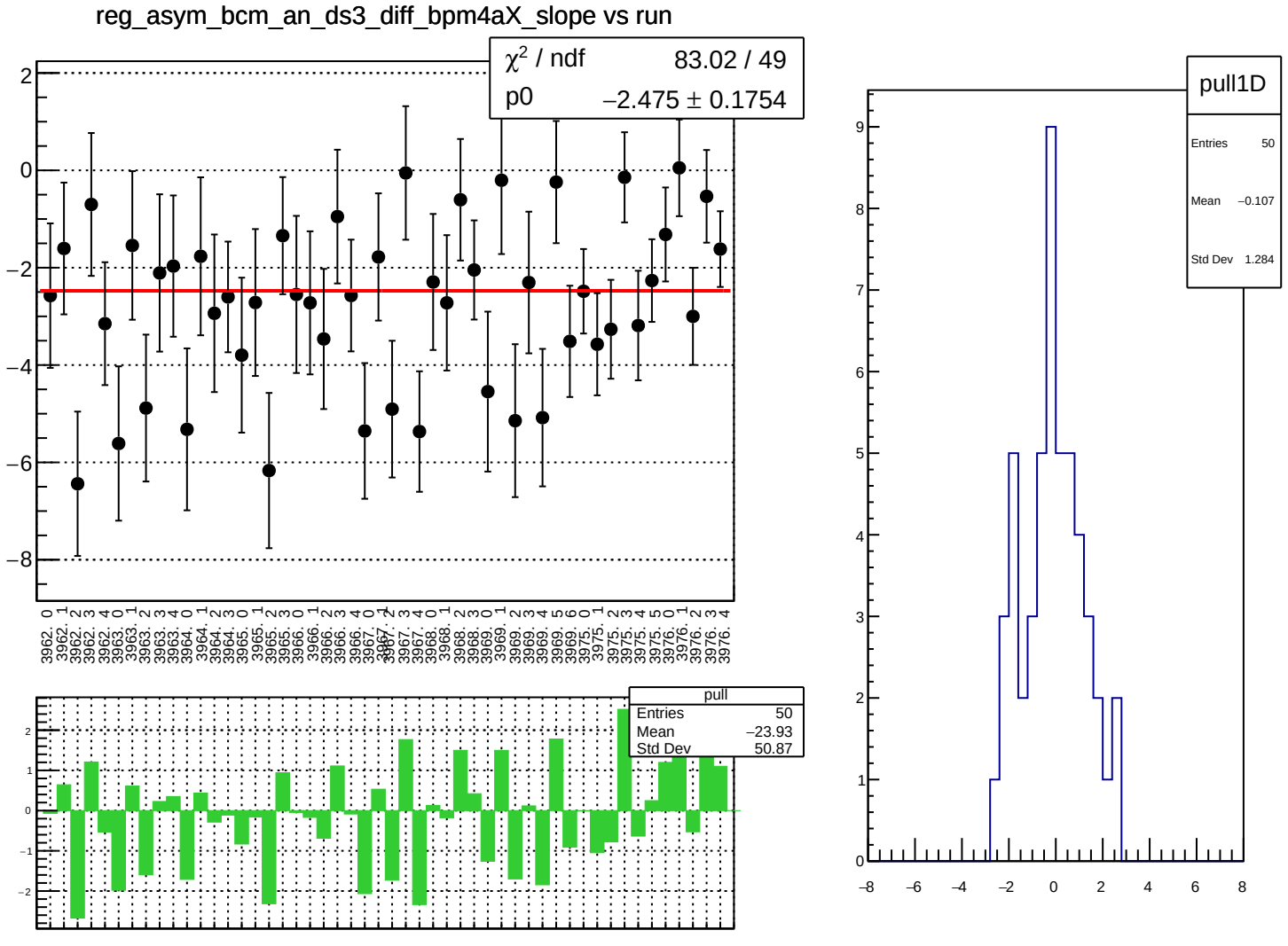

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.49 / 49
p0 −364.4 ± 1.035
pull
Entries 50
Mean 44.24
Std Dev 45.84
pull1D
Entries 50
Mean −0.02456
Std Dev 0.5378

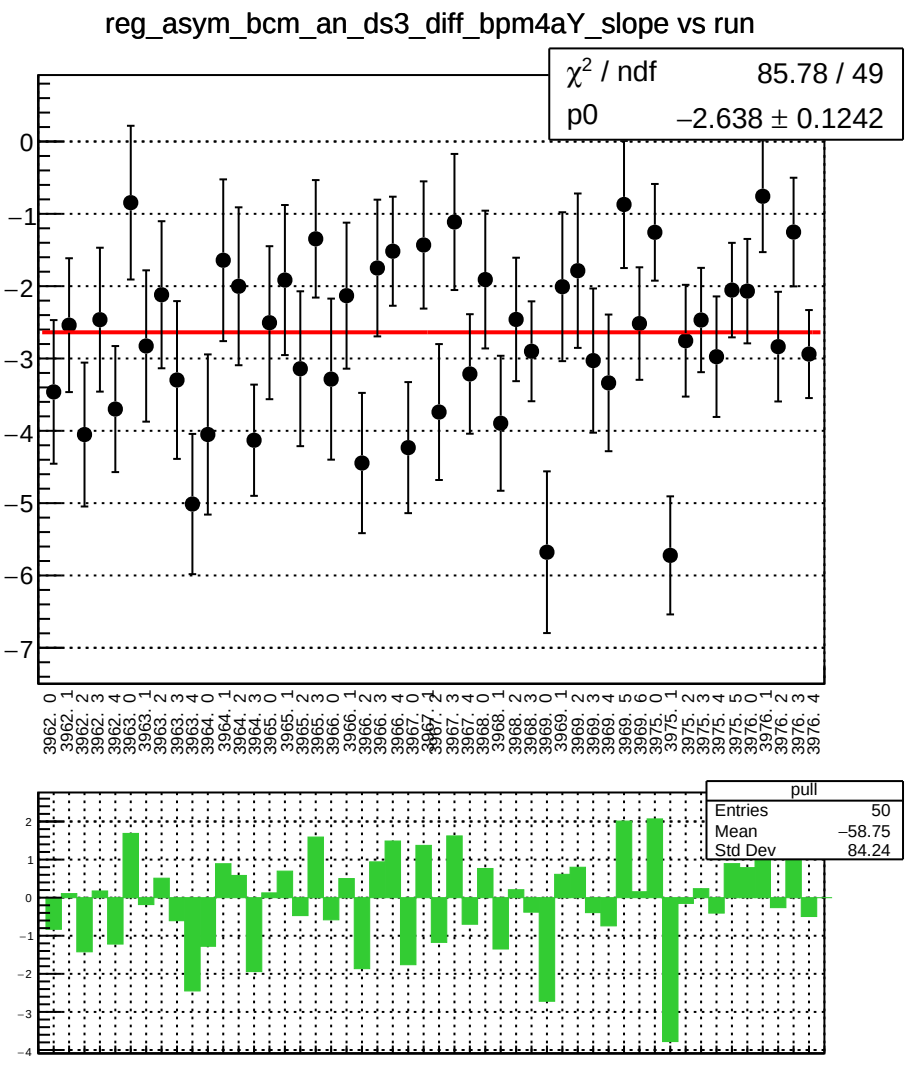

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.595 / 49
p0 174 ± 7.103
pull
Entries 50
Mean −132.7
Std Dev 164.1

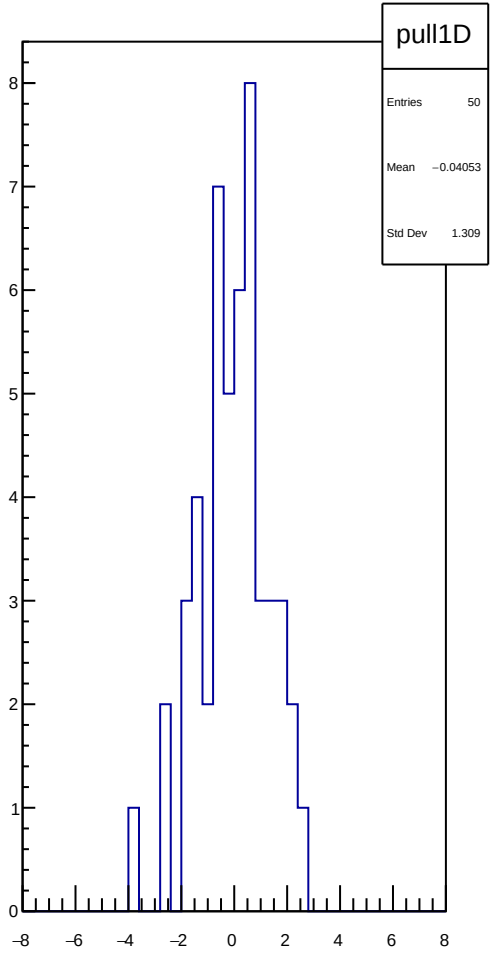

pull1D
Entries 50
Mean 0.01018
Std Dev 0.363

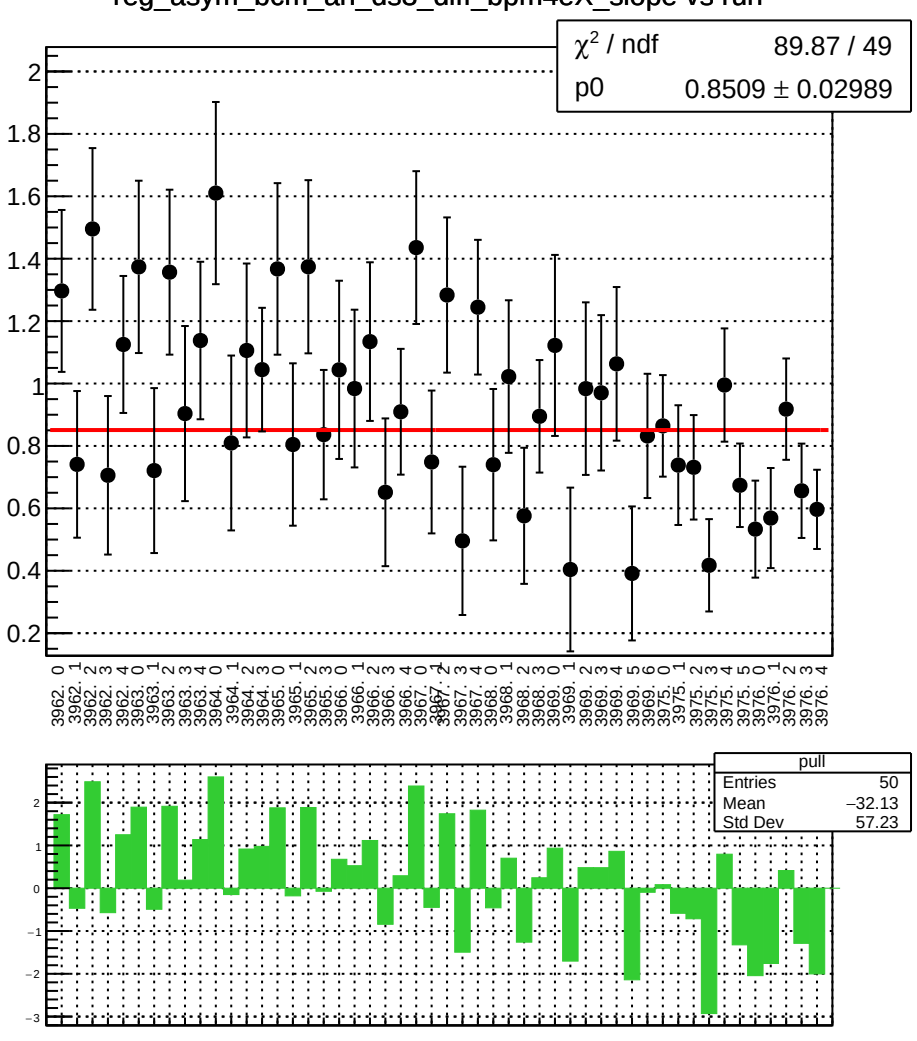

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 2.972 / 49
p0 1.748 ± 1.18
pull
Entries 50
Mean −475.1
Std Dev 505.2

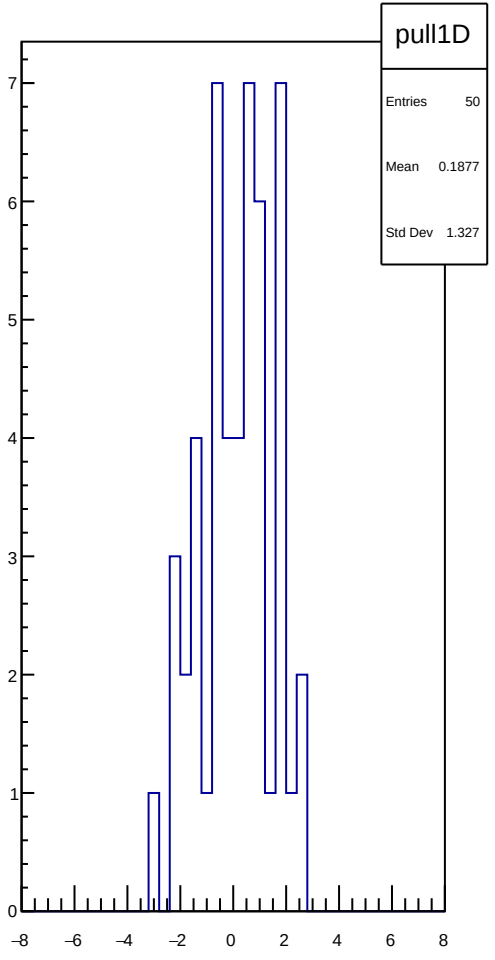

pull1D
Entries 50
Mean −0.004125
Std Dev 0.2438

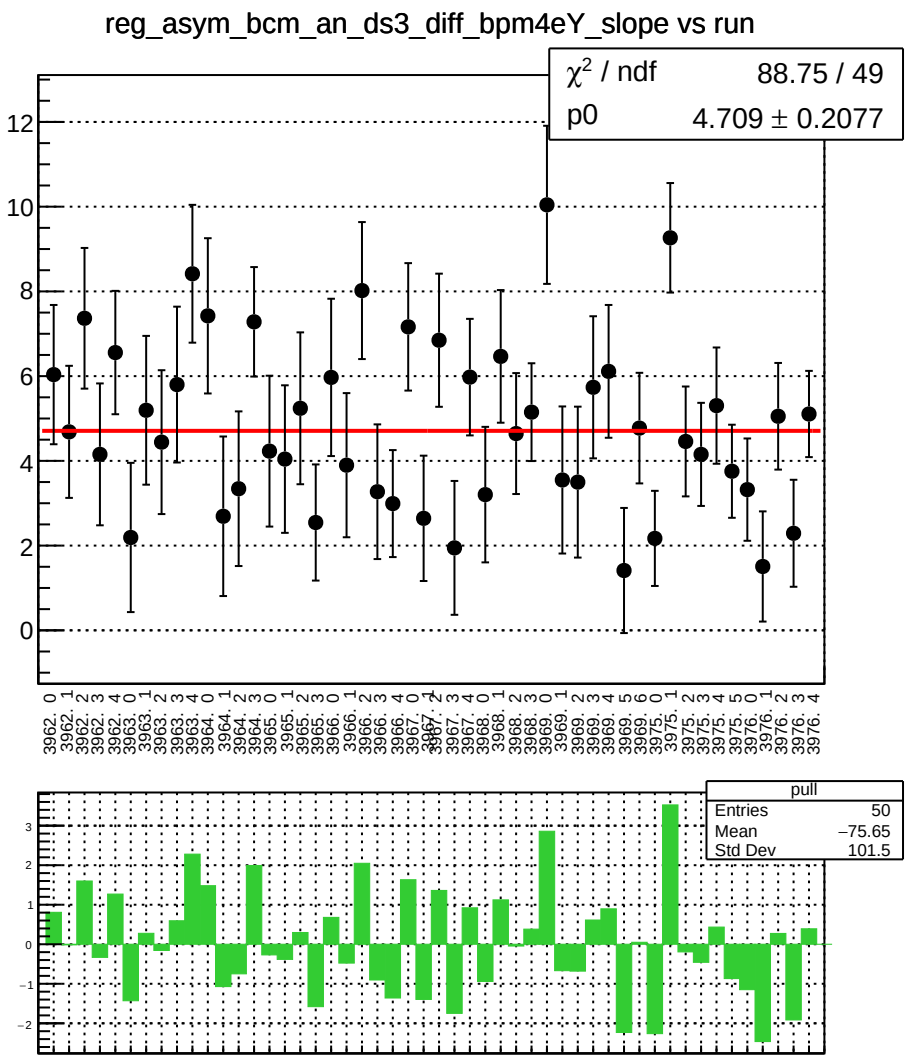

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 83.02 / 49
p0 −2.475 ± 0.1754
pull
Entries 50
Mean −23.93
Std Dev 50.87
pull1D
Entries 50
Mean −0.107
Std Dev 1.284

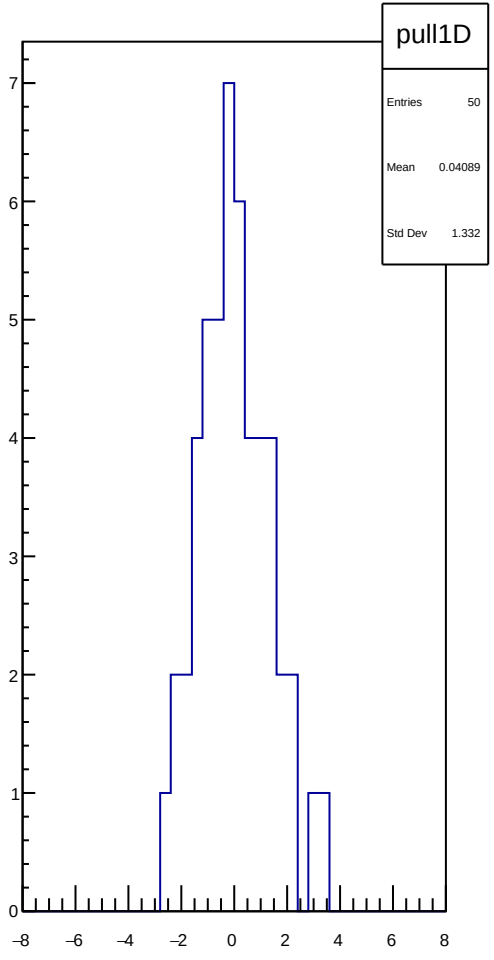

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 85.78 / 49
p0 −2.638 ± 0.1242
pull
Entries 50
Mean −58.75
Std Dev 84.24

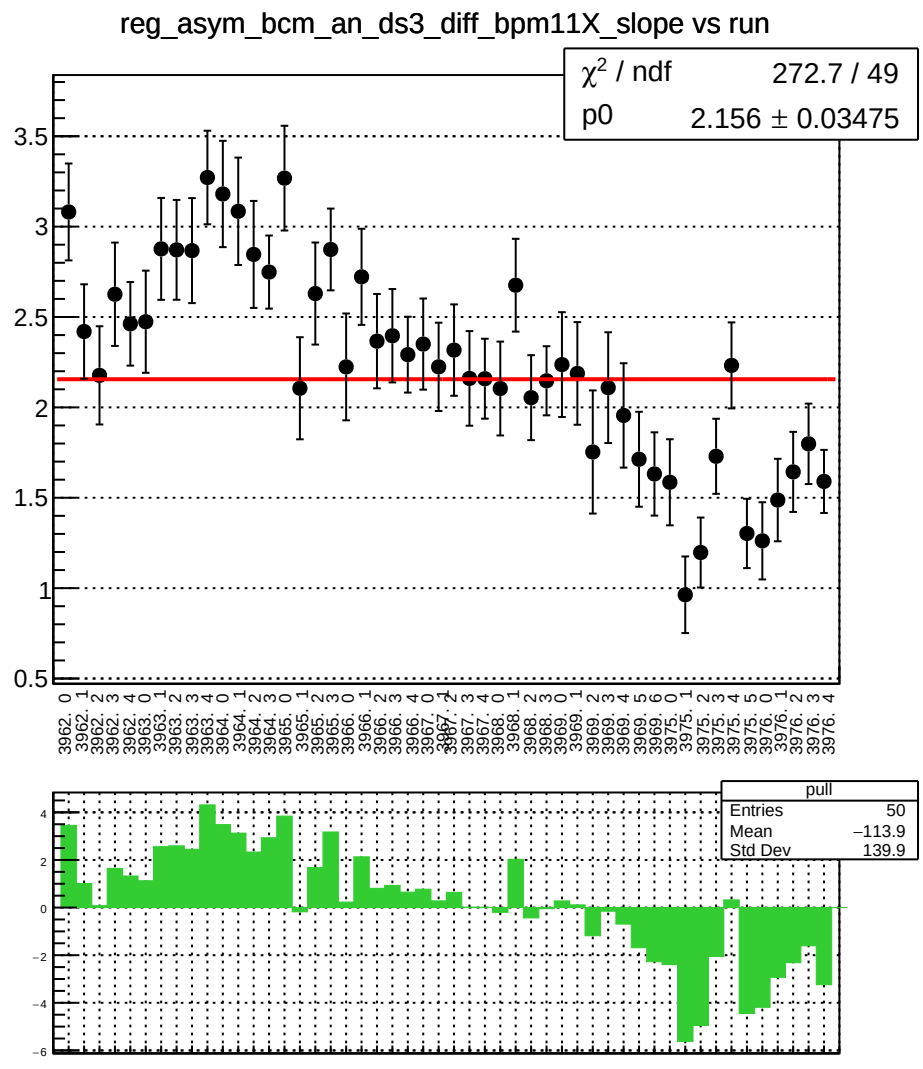

pull1D
Entries 50
Mean −0.04053
Std Dev 1.309

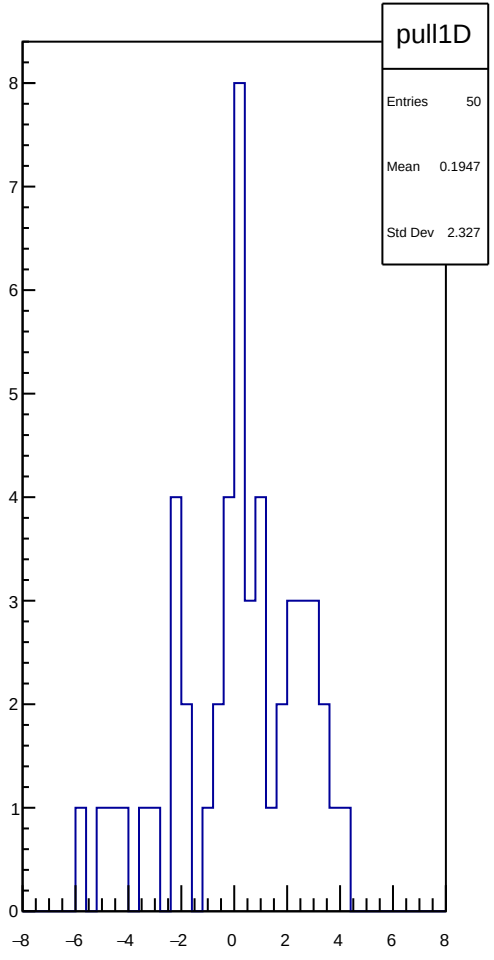

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 89.87 / 49
p0 0.8509 ± 0.02989
pull
Entries 50
Mean −32.13
Std Dev 57.23

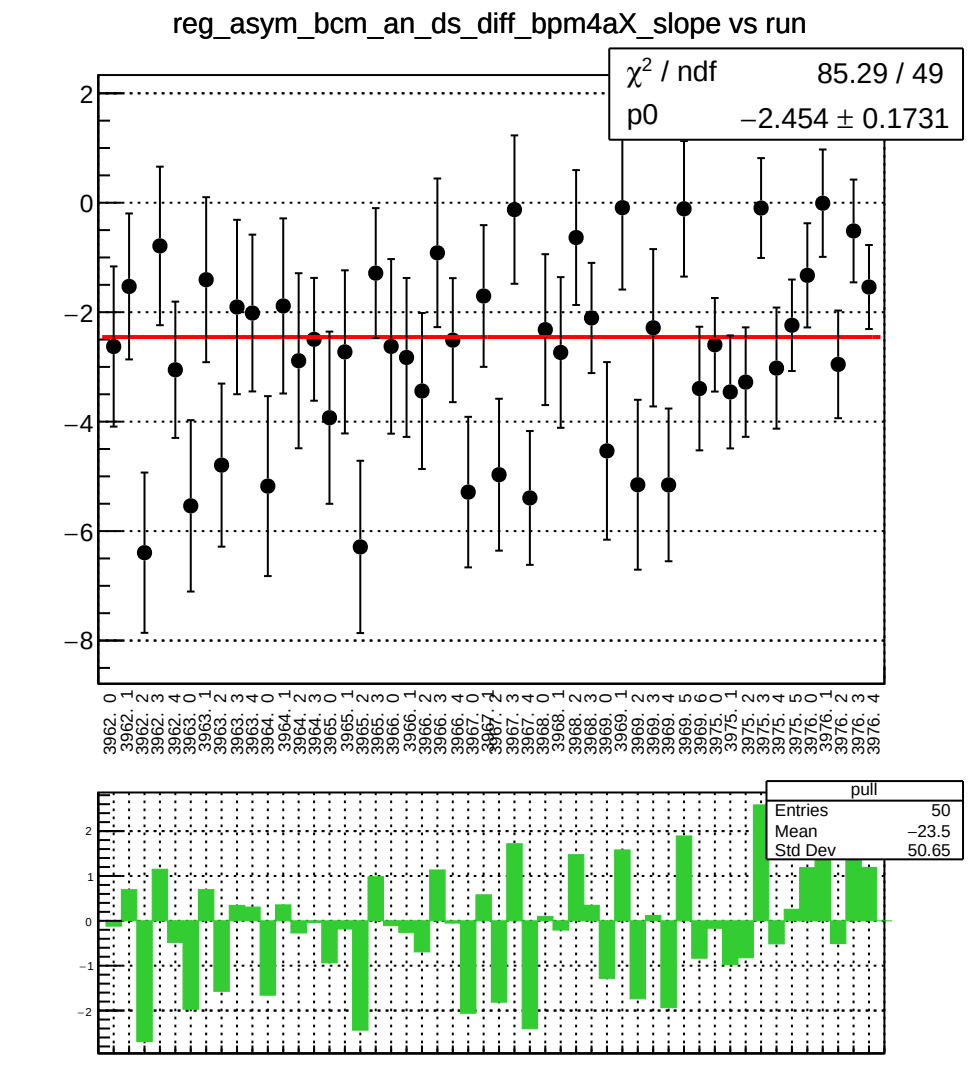

pull1D
Entries 50
Mean 0.1877
Std Dev 1.327

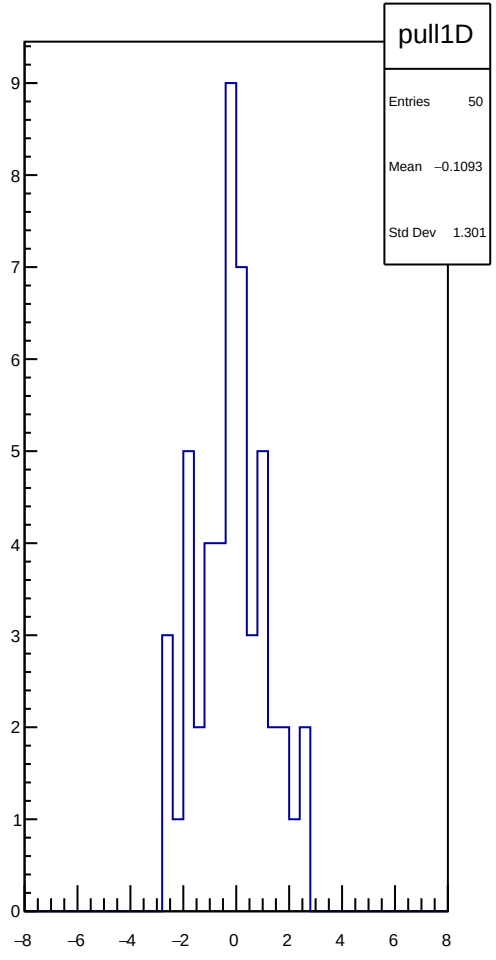

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 88.75 / 49
p0 4.709 ± 0.2077
pull
Entries 50
Mean −75.65
Std Dev 101.5

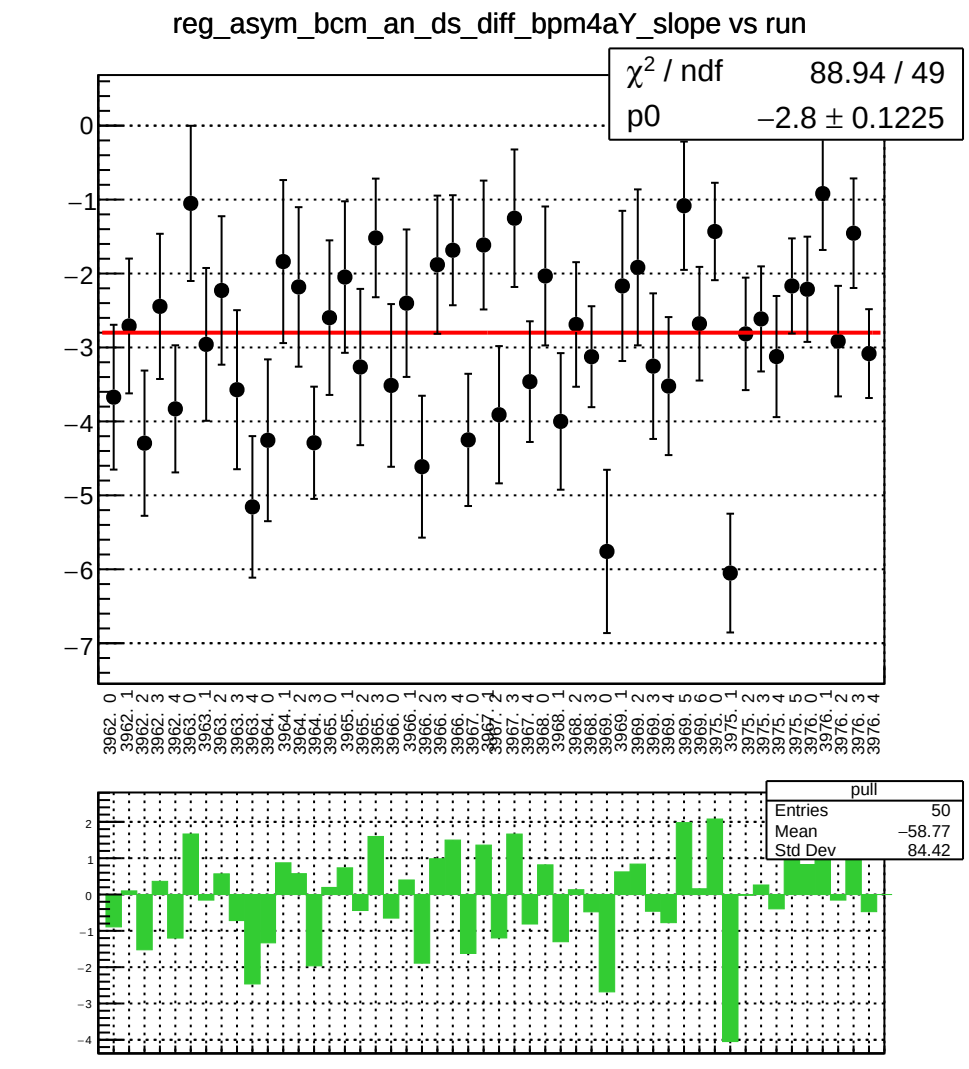

pull1D
Entries 50
Mean 0.04089
Std Dev 1.332

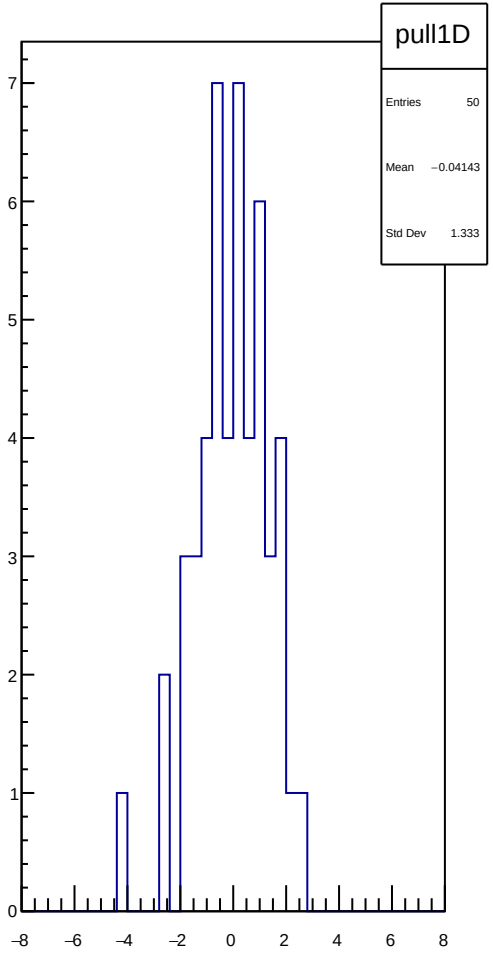

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 272.7 / 49
p0 2.156 ± 0.03475
pull
Entries 50
Mean −113.9
Std Dev 139.9

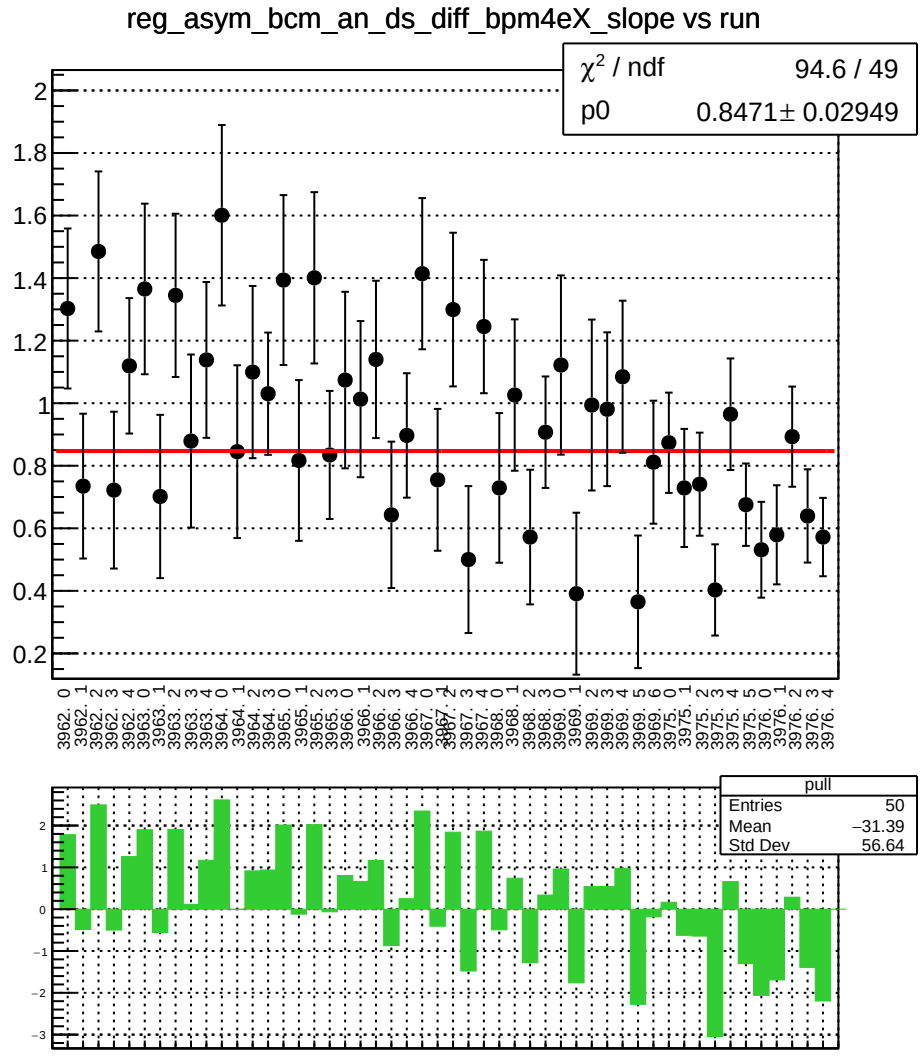

pull1D
Entries 50
Mean 0.1947
Std Dev 2.327

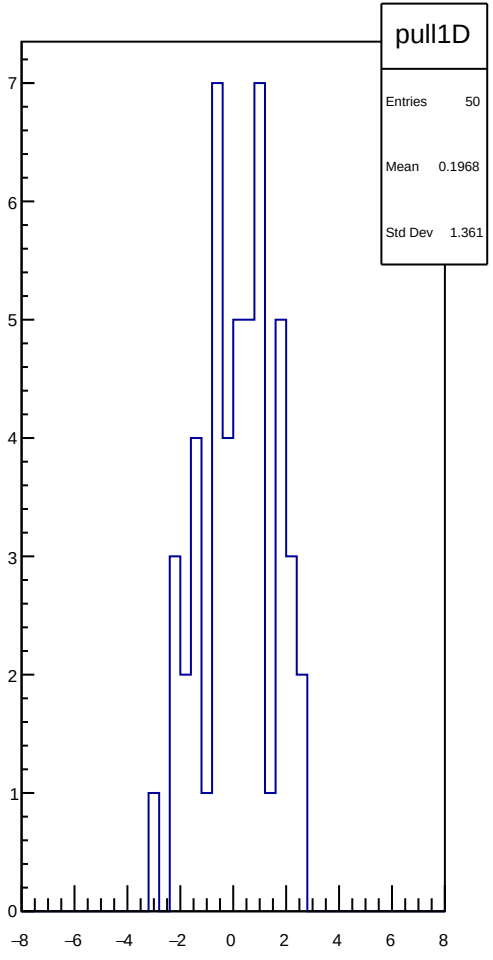

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 85.29 / 49
p0 −2.454 ± 0.1731
pull
Entries 50
Mean −23.5
Std Dev 50.65

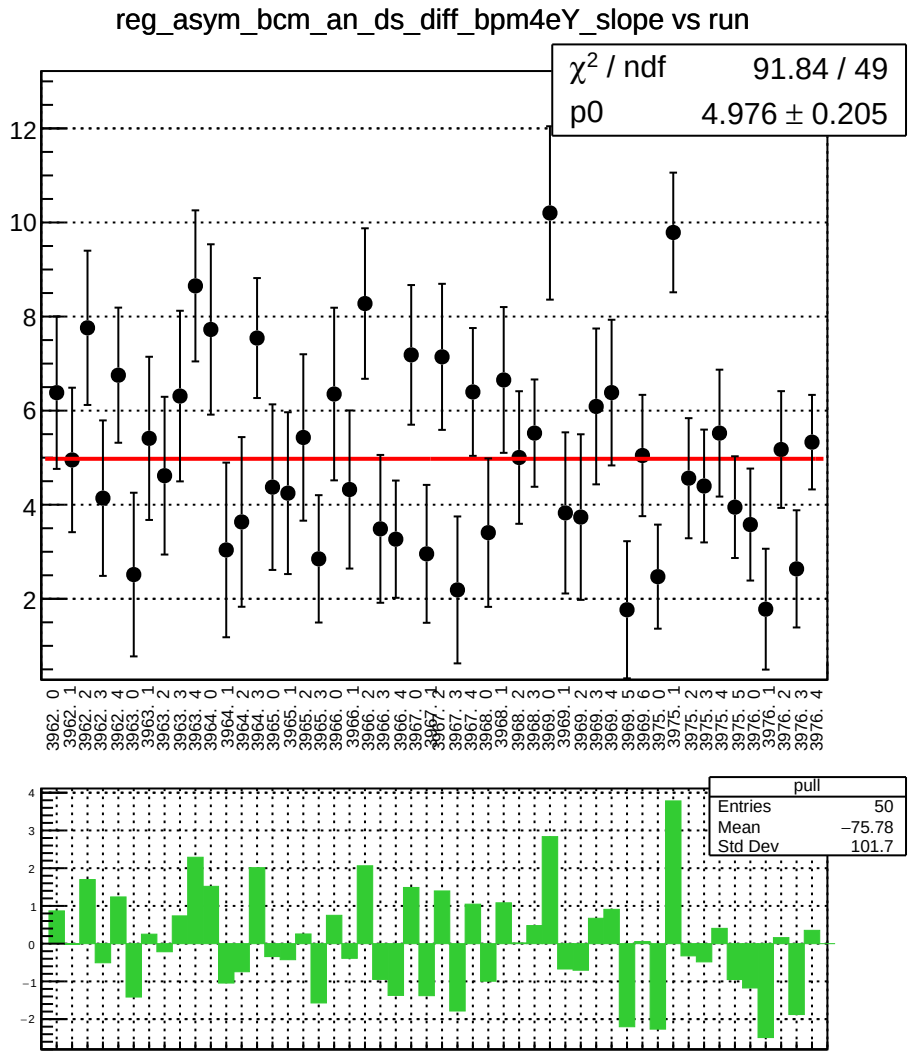

pull1D
Entries 50
Mean −0.1093
Std Dev 1.301

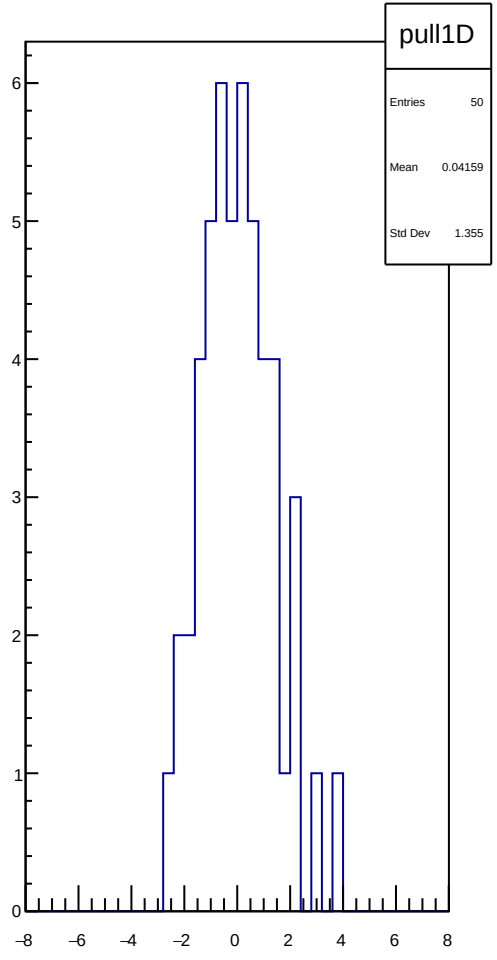

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 88.94 / 49
p0 −2.8 ± 0.1225
pull
Entries 50
Mean −58.77
Std Dev 84.42

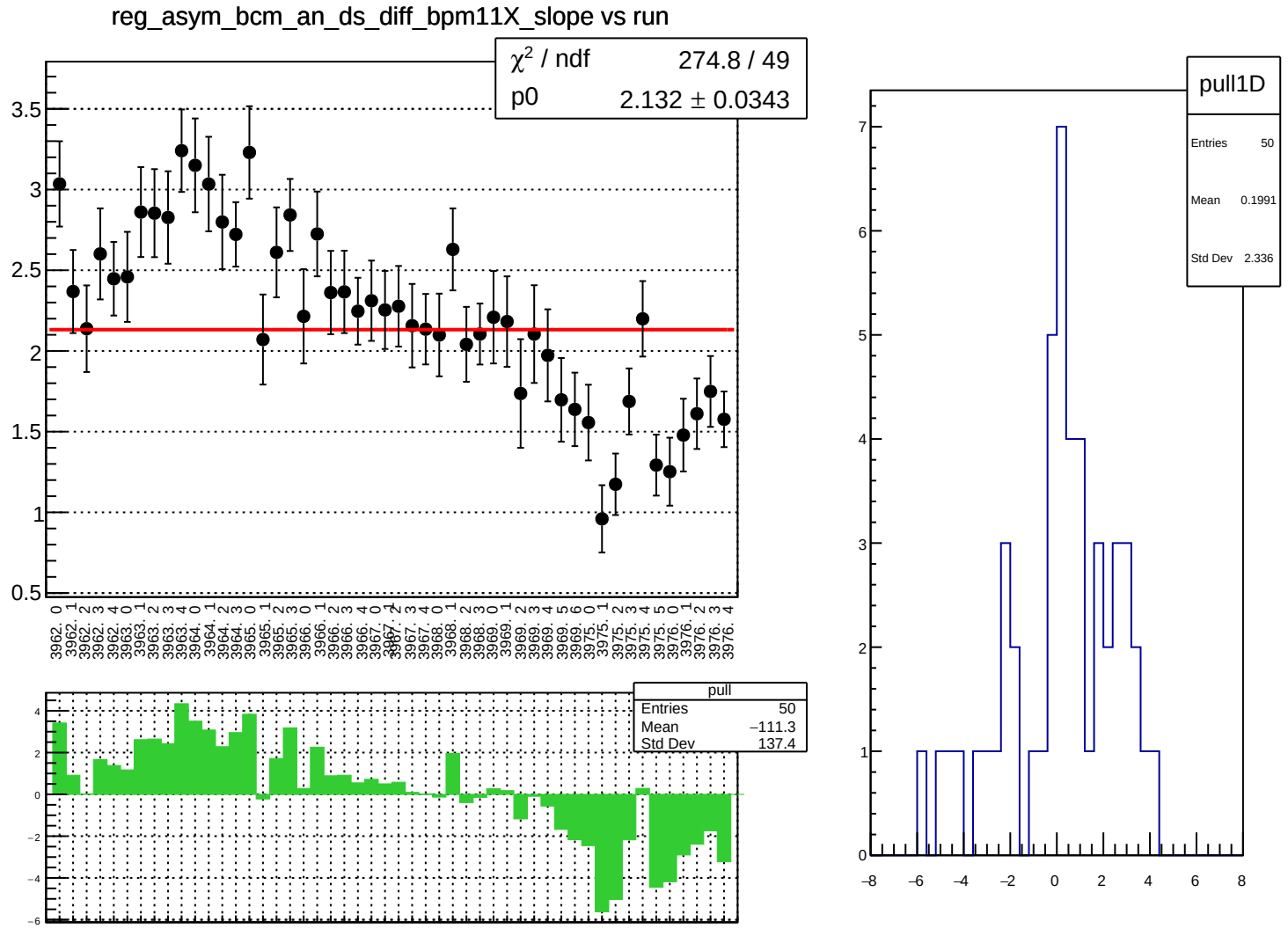

pull1D
Entries 50
Mean −0.04143
Std Dev 1.333

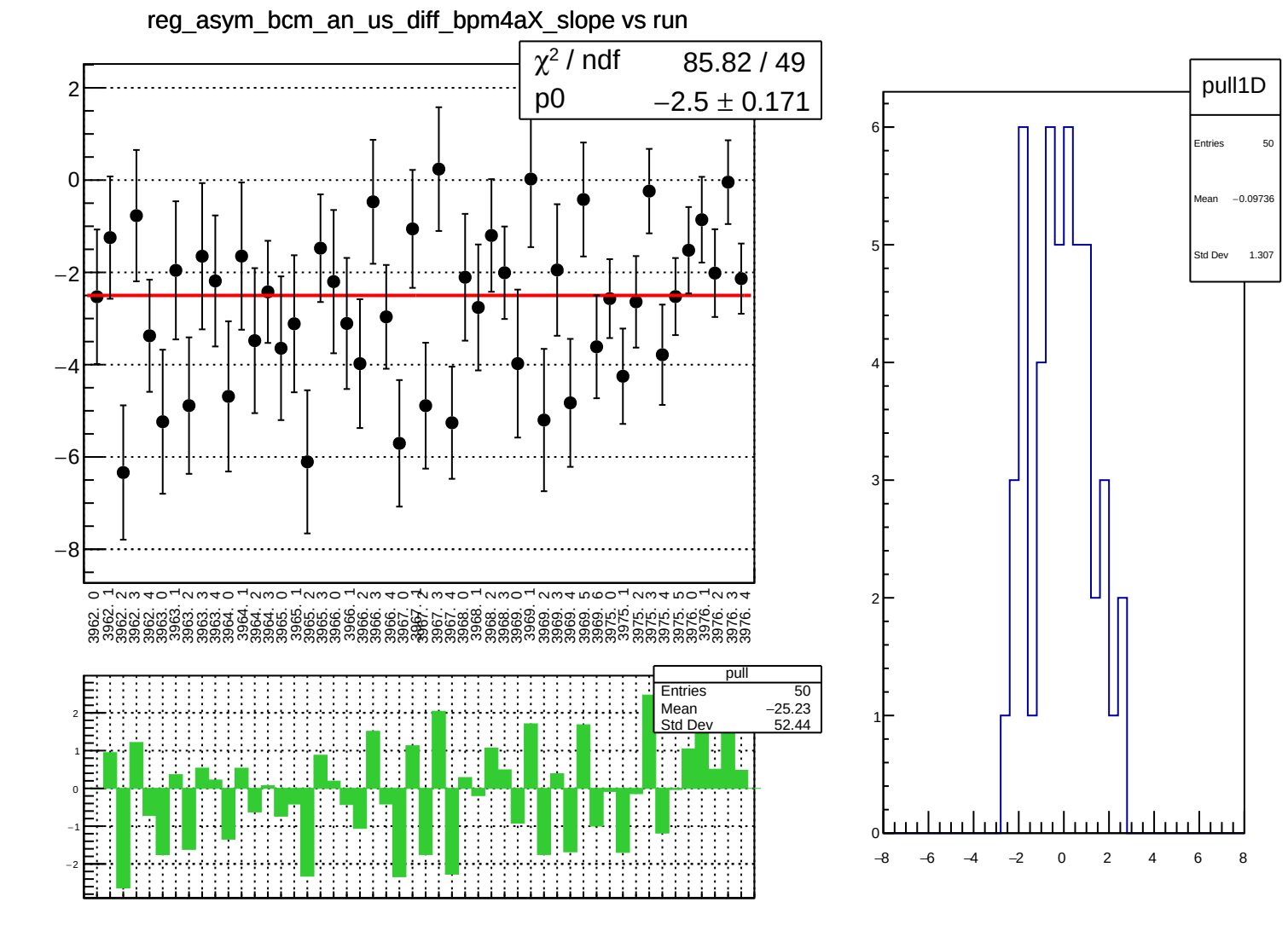

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 94.6 / 49
p0 0.8471± 0.02949
pull
Entries 50
Mean −31.39
Std Dev 56.64

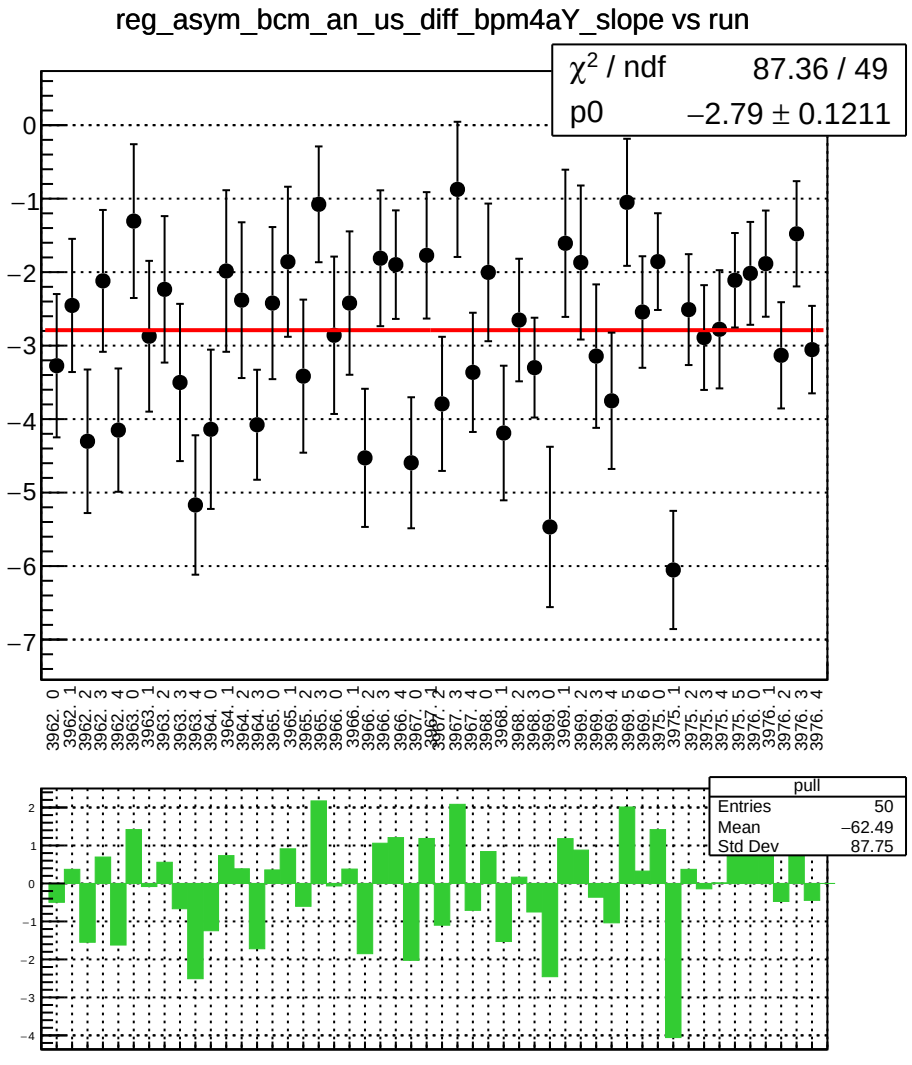

pull1D
Entries 50
Mean 0.1968
Std Dev 1.361

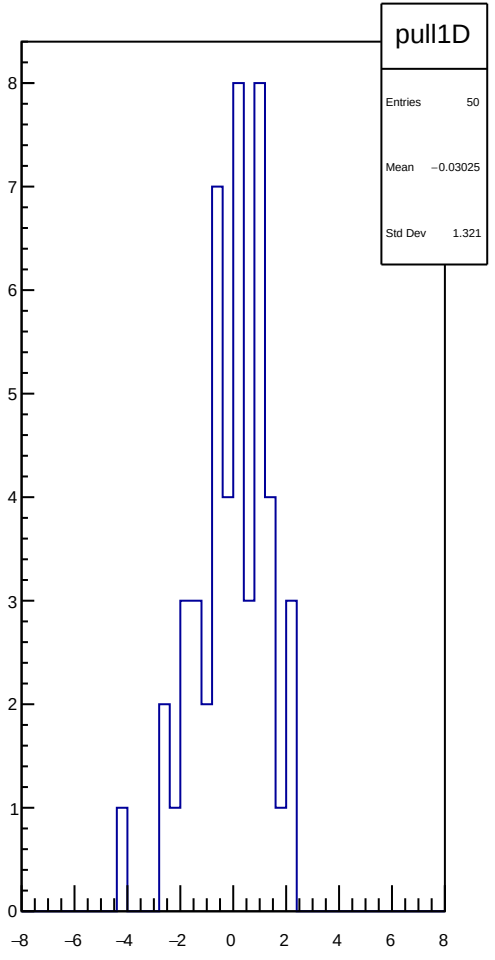

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 91.84 / 49
p0 4.976 ± 0.205
pull
Entries 50
Mean −75.78
Std Dev 101.7

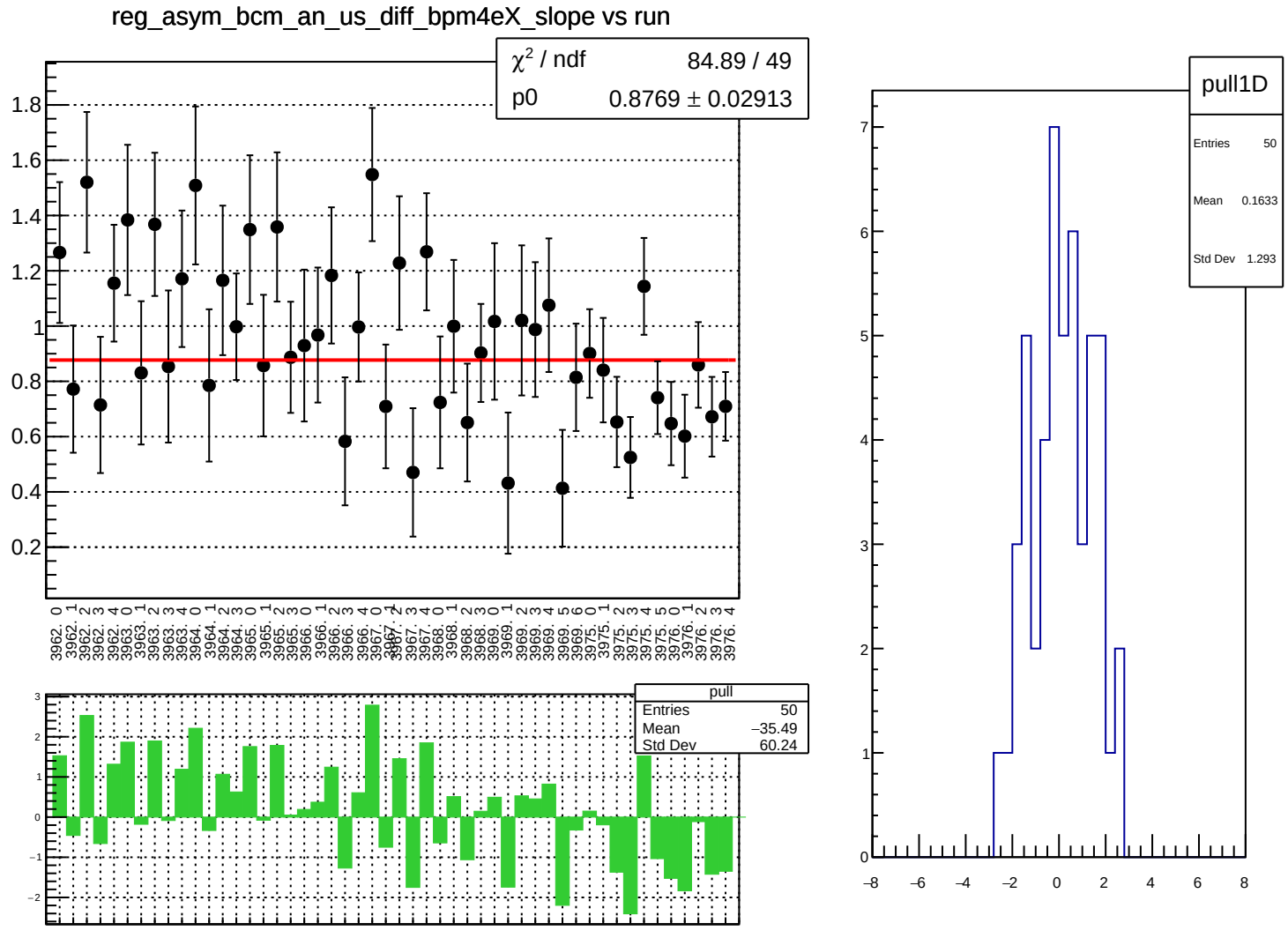

pull1D
Entries 50
Mean 0.04159
Std Dev 1.355

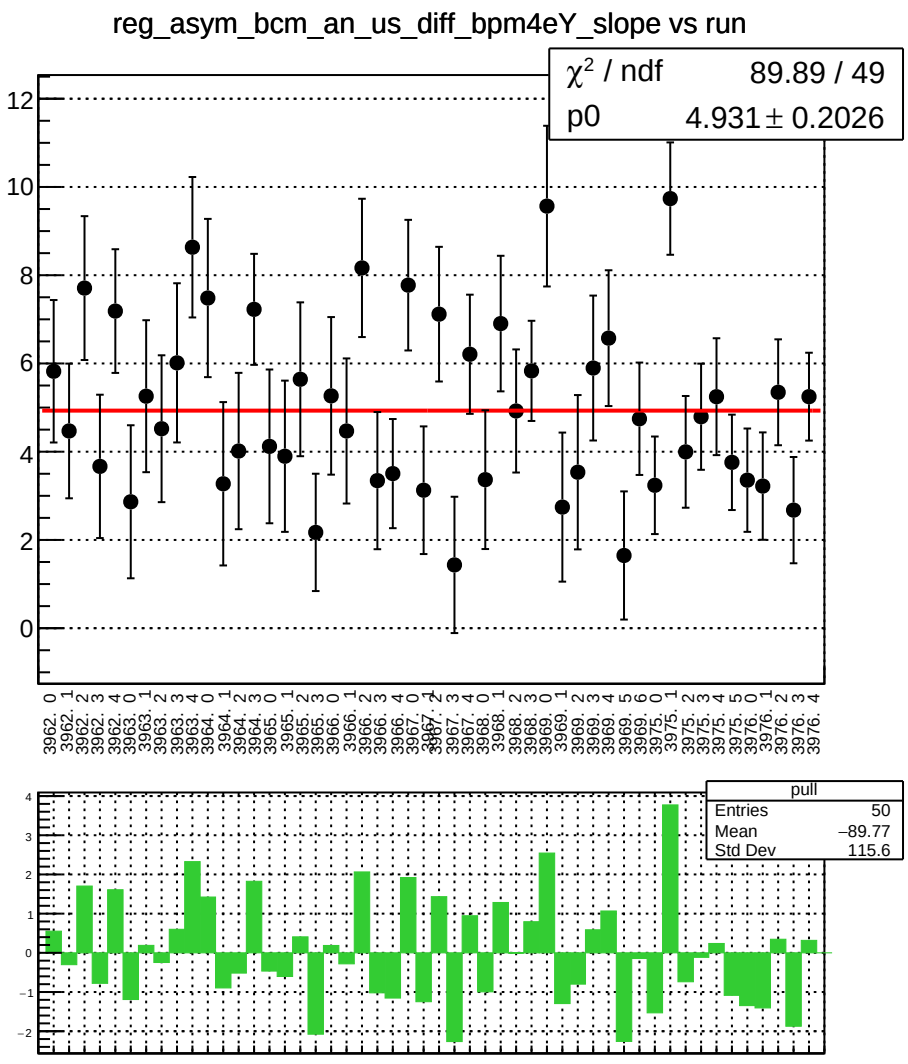

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 274.8 / 49
p0 2.132 ± 0.0343
pull
Entries 50
Mean −111.3
Std Dev 137.4
pull1D
Entries 50
Mean 0.1991
Std Dev 2.336

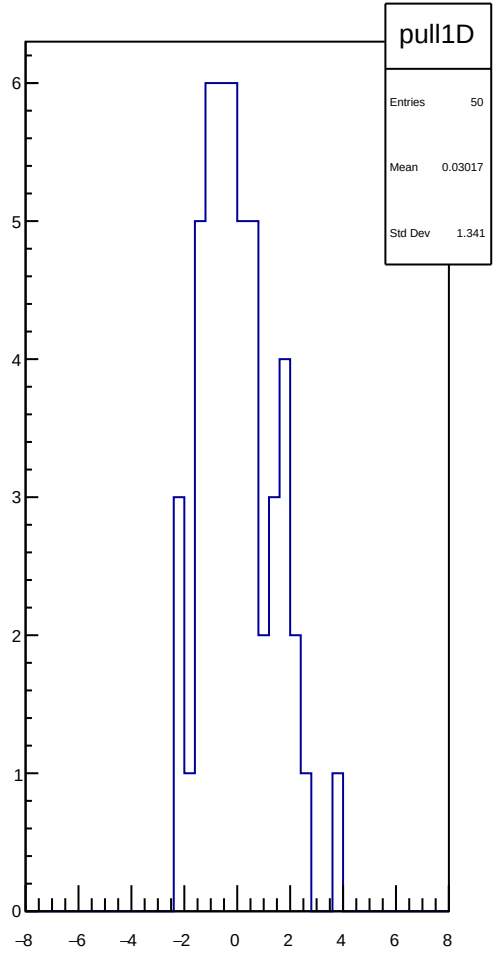

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 85.82 / 49
p0 −2.5 ± 0.171
pull
Entries 50
Mean −25.23
Std Dev 52.44
pull1D
Entries 50
Mean −0.09736
Std Dev 1.307

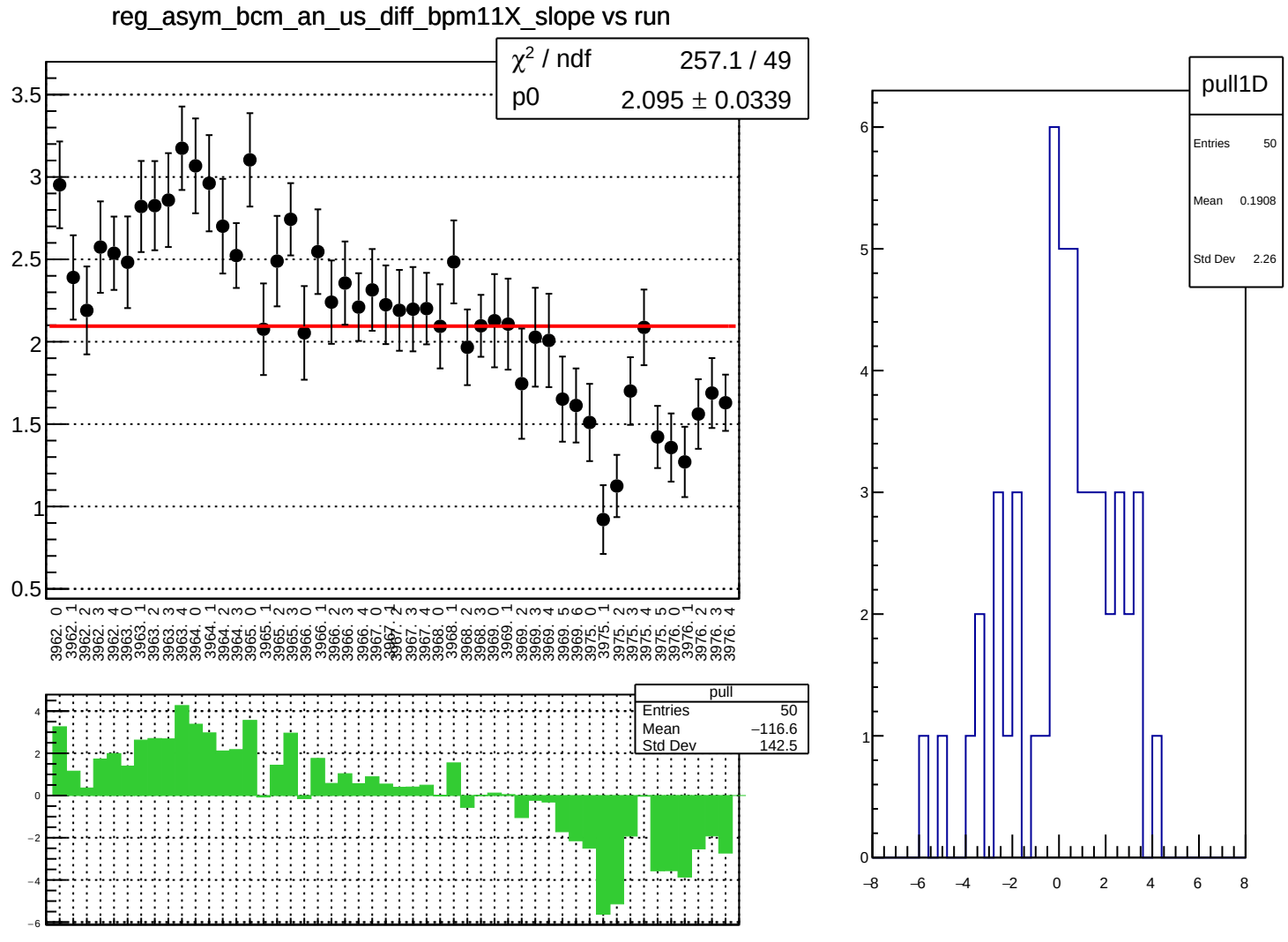

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 87.36 / 49
p0 −2.79 ± 0.1211
pull
Entries 50
Mean −62.49
Std Dev 87.75

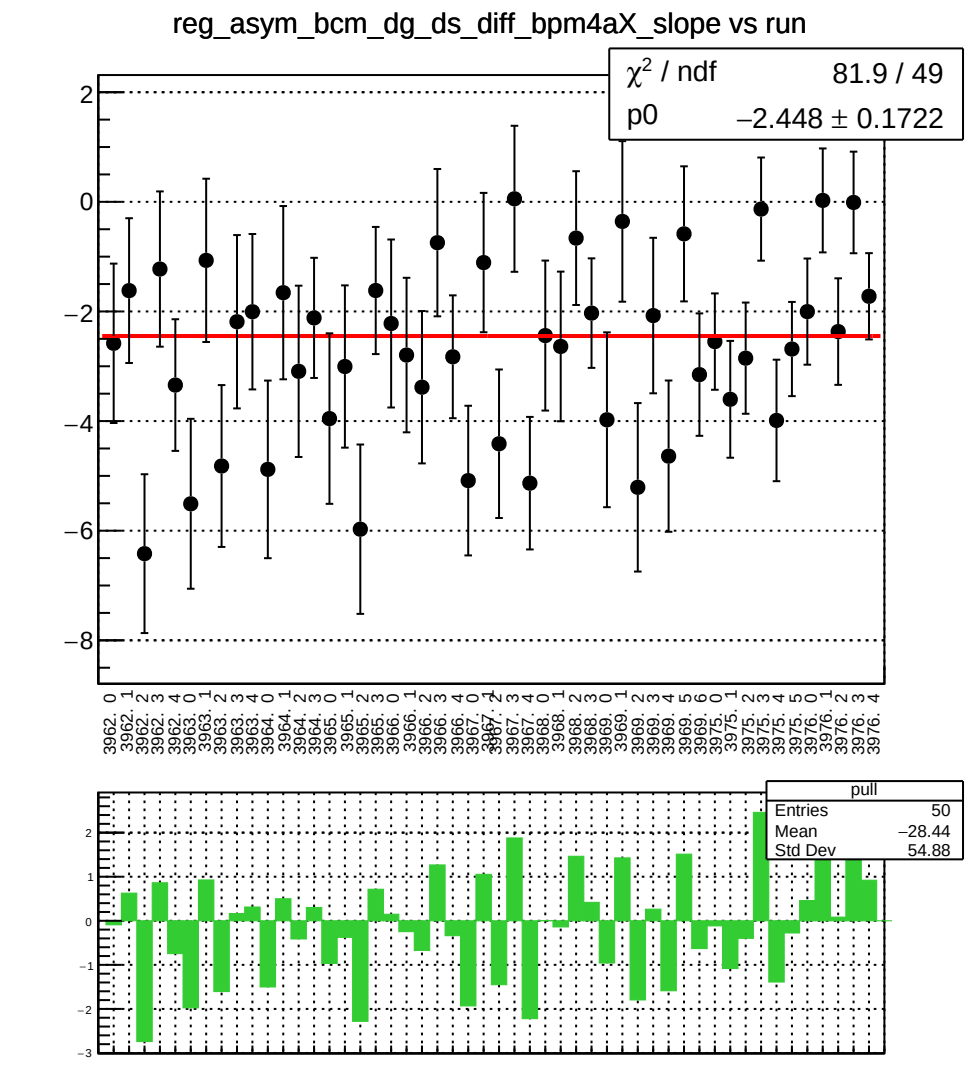

pull1D
Entries 50
Mean −0.03025
Std Dev 1.321

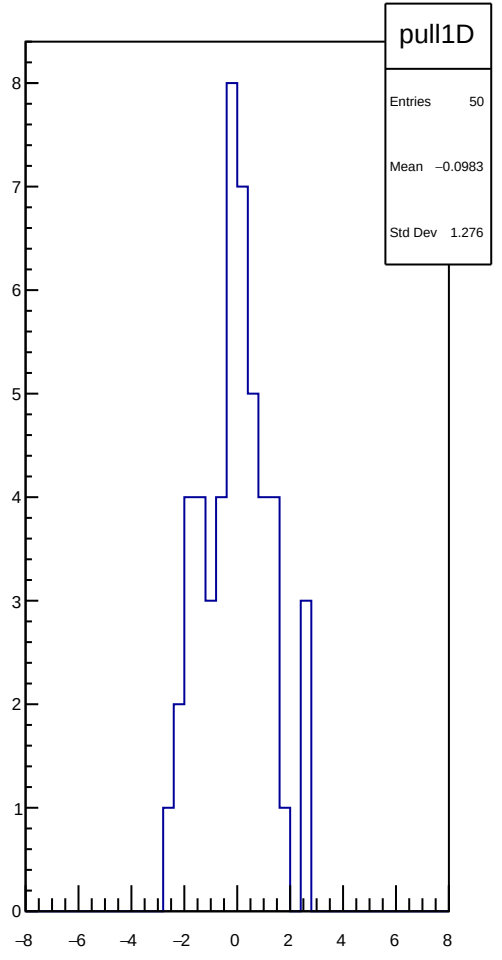

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 84.89 / 49
p0 0.8769 ± 0.02913
pull
Entries 50
Mean −35.49
Std Dev 60.24
pull1D
Entries 50
Mean 0.1633
Std Dev 1.293

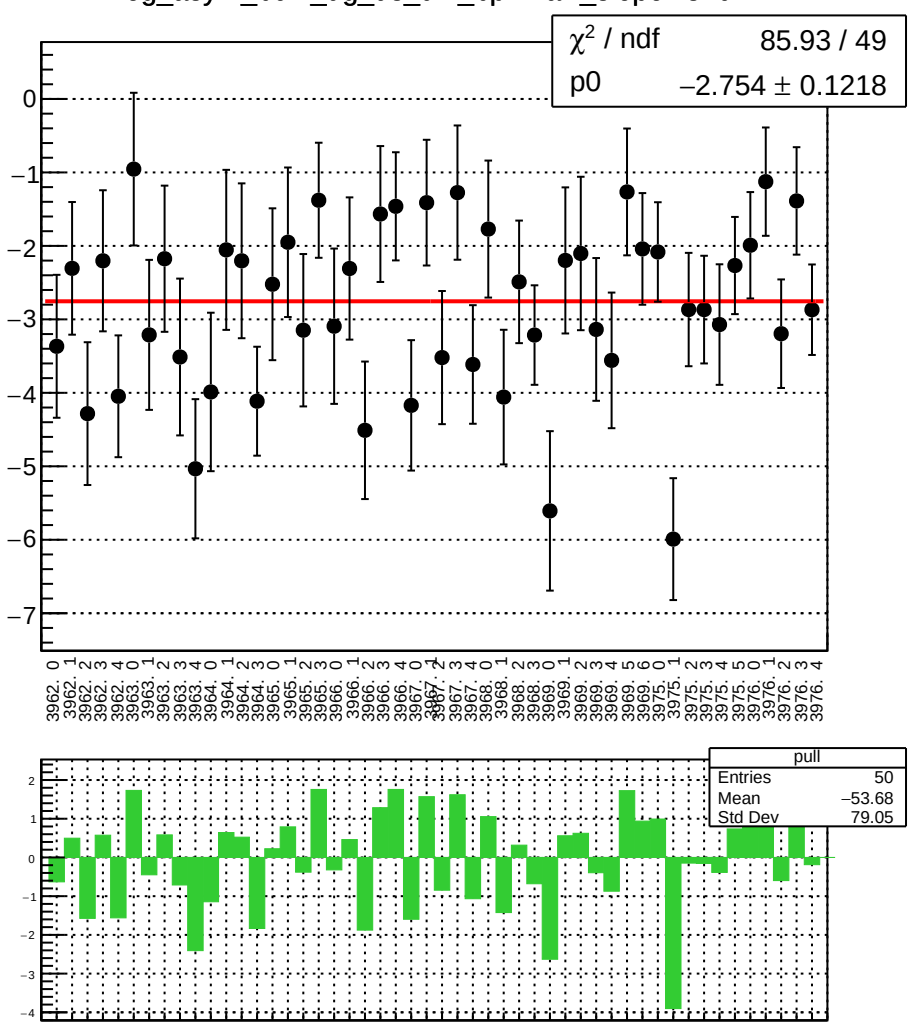

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 89.89 / 49
p0 4.931 ± 0.2026
pull
Entries 50
Mean −89.77
Std Dev 115.6

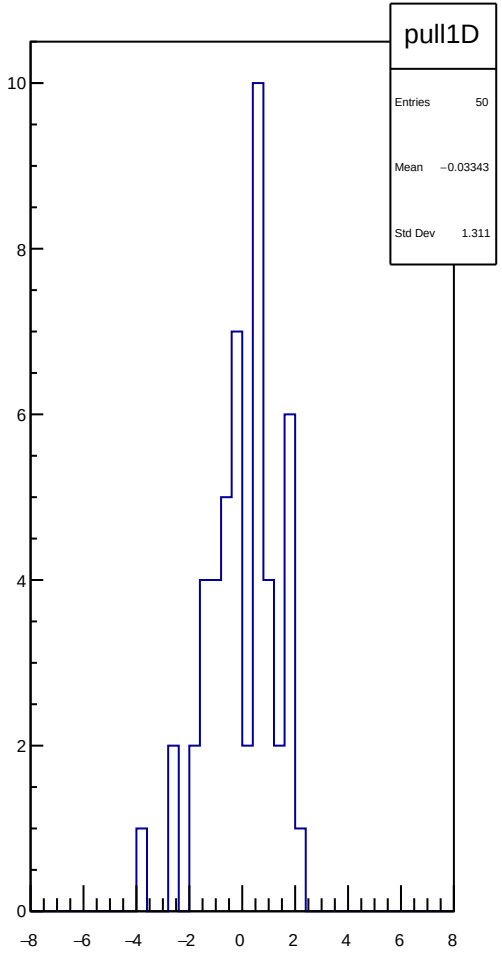

pull1D
Entries 50
Mean 0.03017
Std Dev 1.341

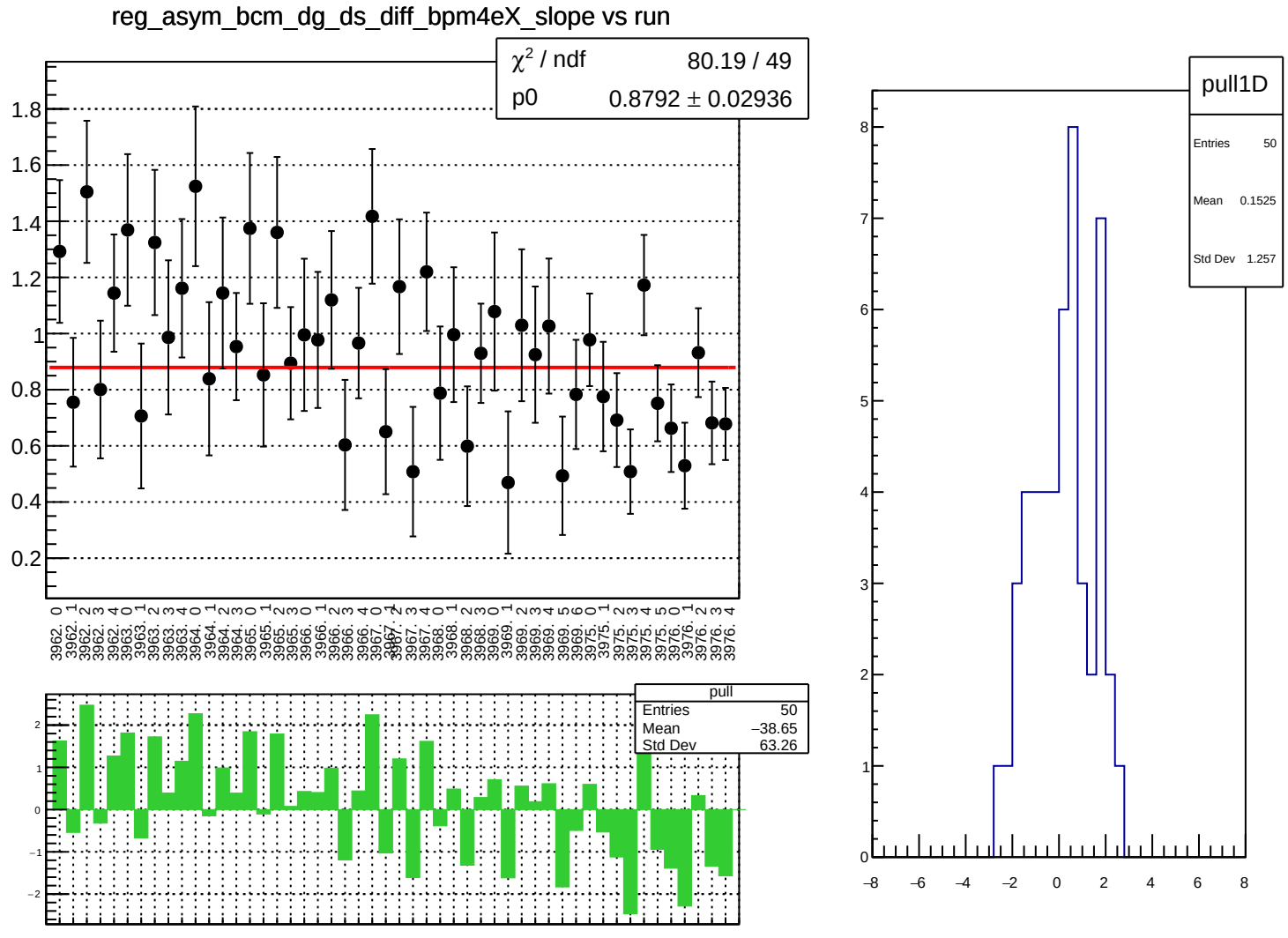

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 257.1 / 49
p0 2.095 ± 0.0339
pull
Entries 50
Mean −116.6
Std Dev 142.5
pull1D
Entries 50
Mean 0.1908
Std Dev 2.26

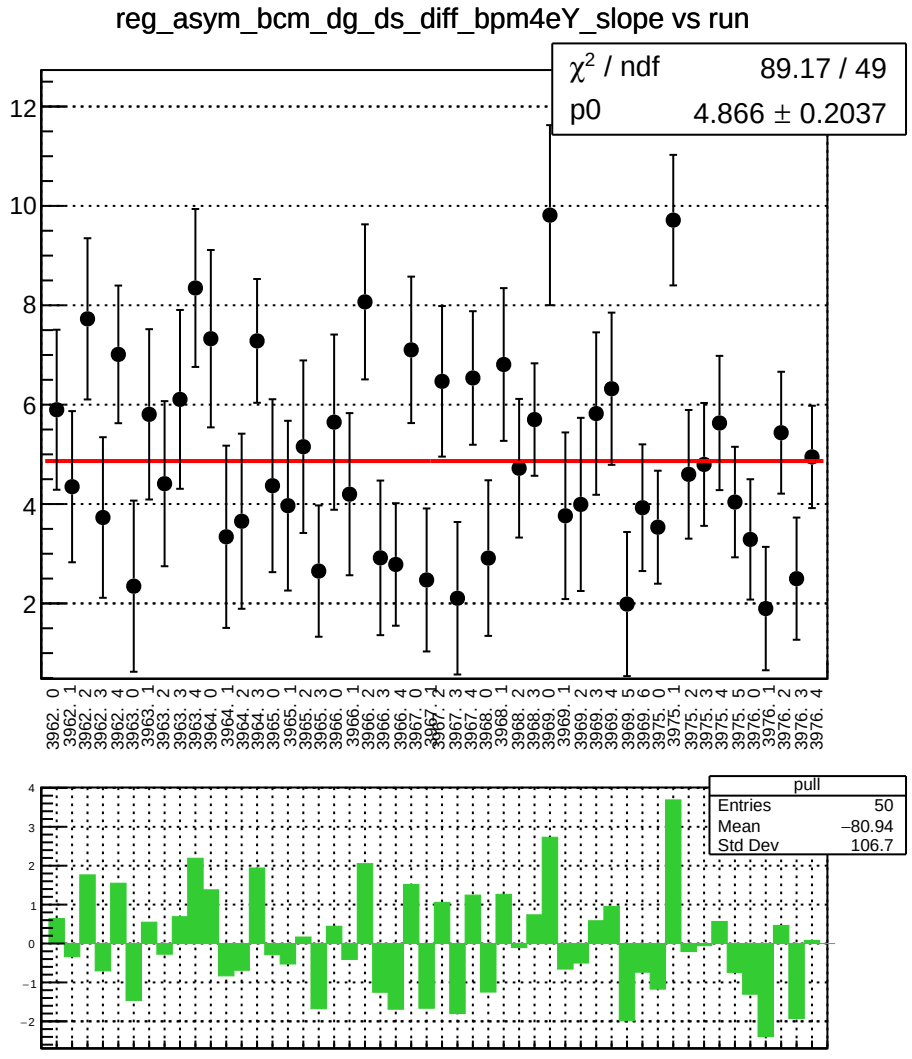

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 81.9 / 49
p0 −2.448 ± 0.1722
pull
Entries 50
Mean −28.44
Std Dev 54.88

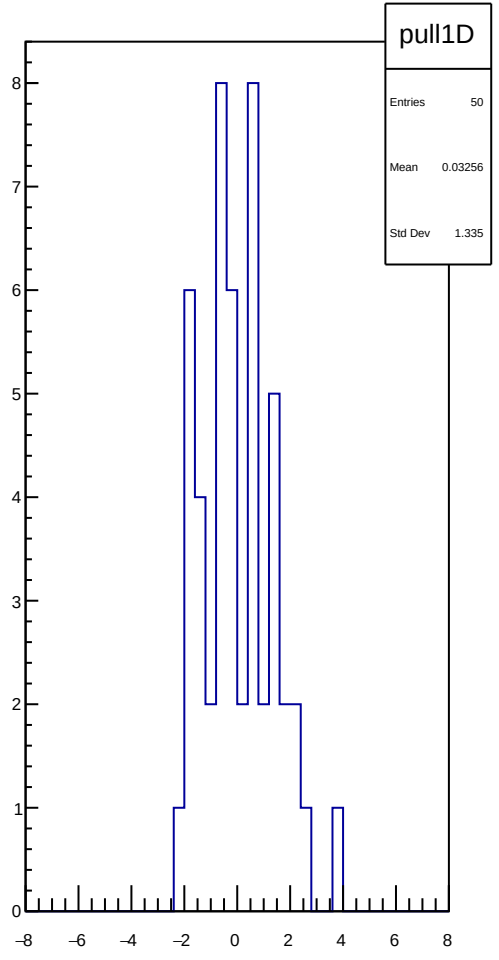

pull1D
Entries 50
Mean −0.0983
Std Dev 1.276

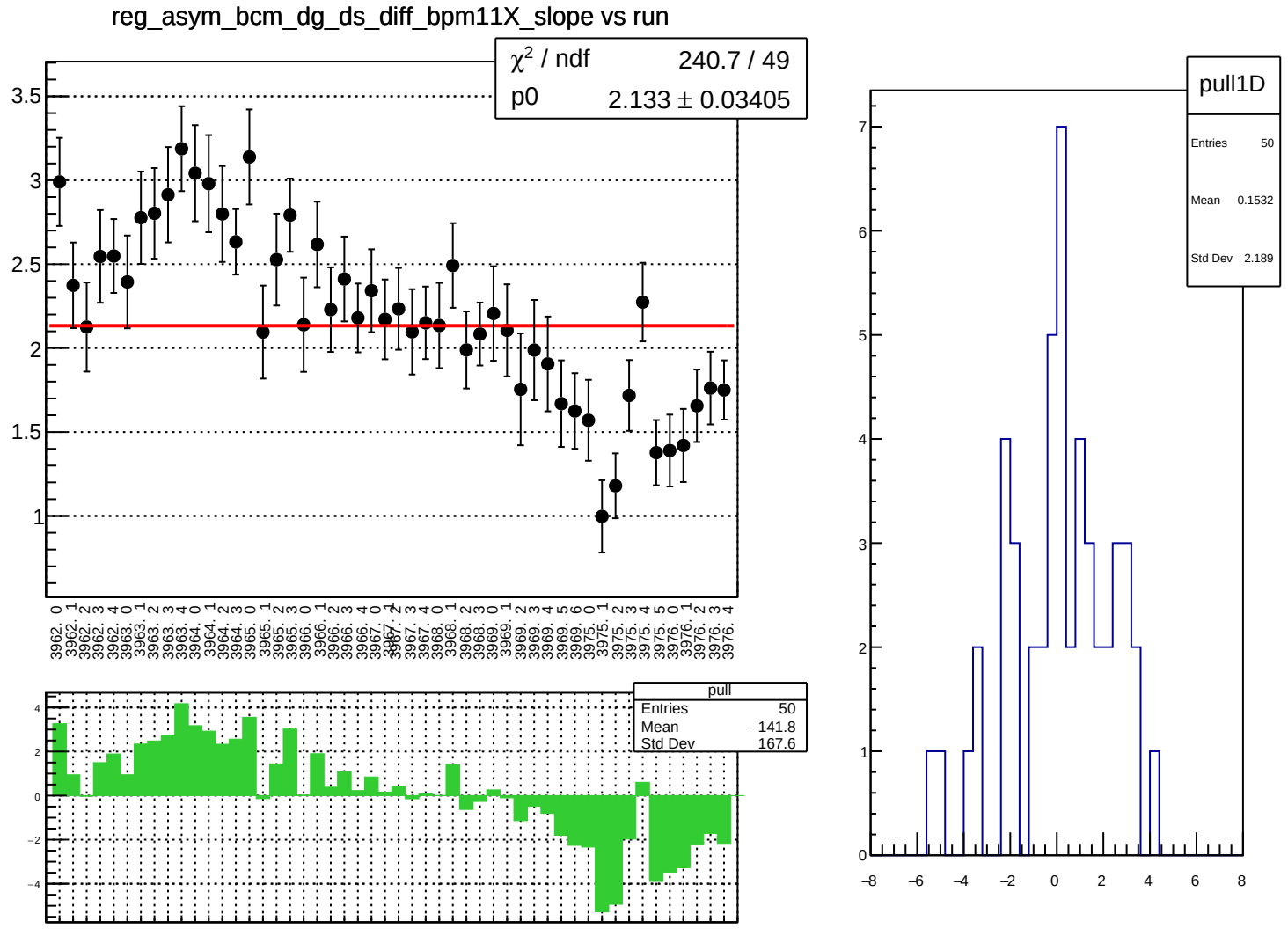

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 85.93 / 49
p0 −2.754 ± 0.1218
pull
Entries 50
Mean −53.68
Std Dev 79.05

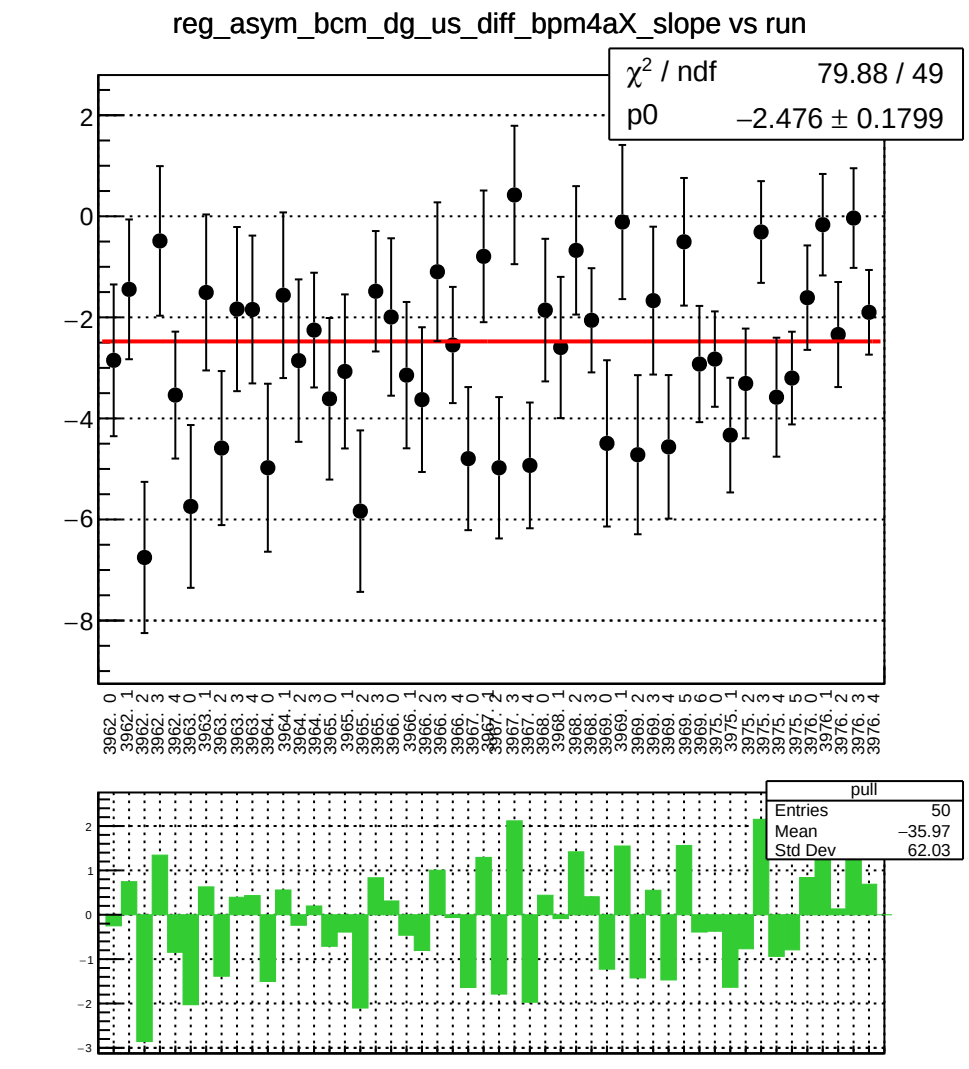

pull1D
Entries 50
Mean −0.03343
Std Dev 1.311

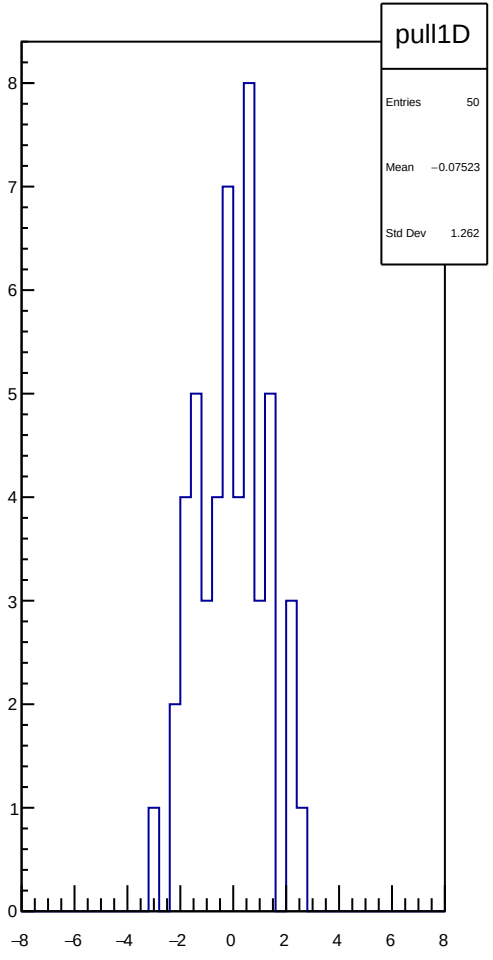

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 80.19 / 49
p0 0.8792 ± 0.02936
pull
Entries 50
Mean −38.65
Std Dev 63.26
pull1D
Entries 50
Mean 0.1525
Std Dev 1.257

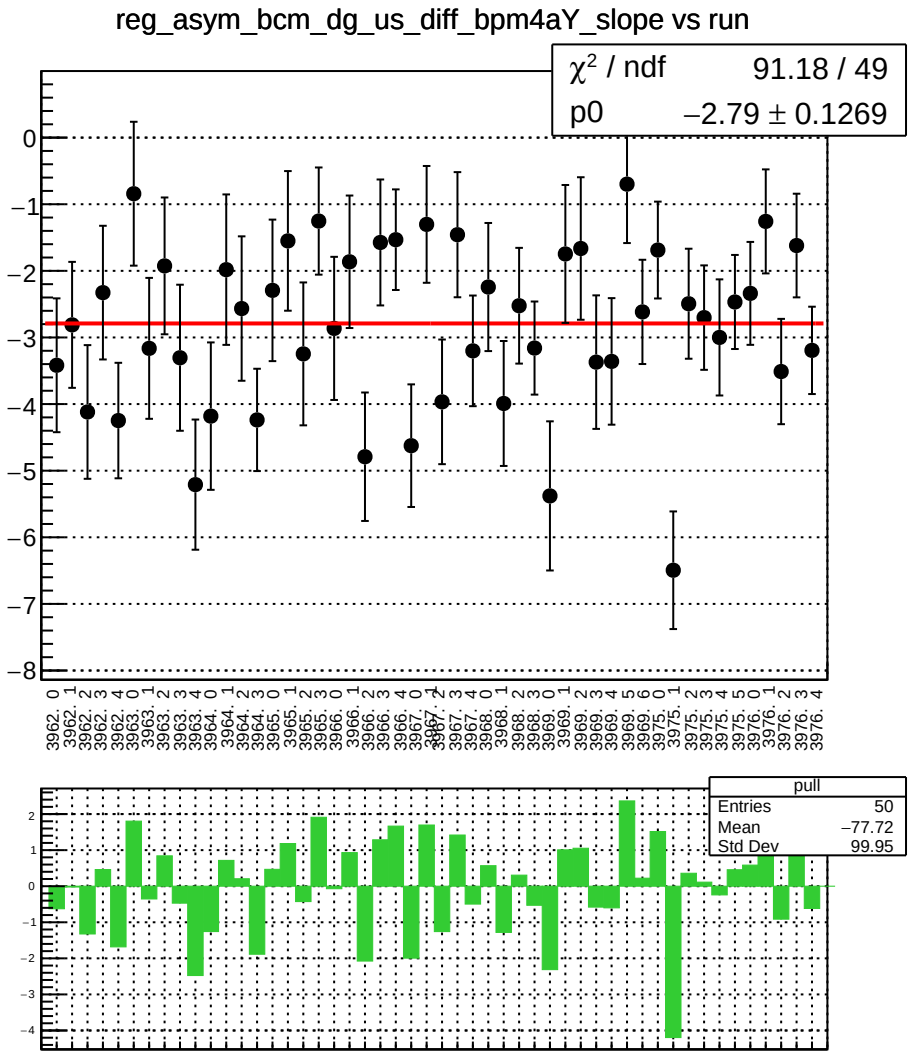

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 89.17 / 49
p0 4.866 ± 0.2037
pull
Entries 50
Mean −80.94
Std Dev 106.7

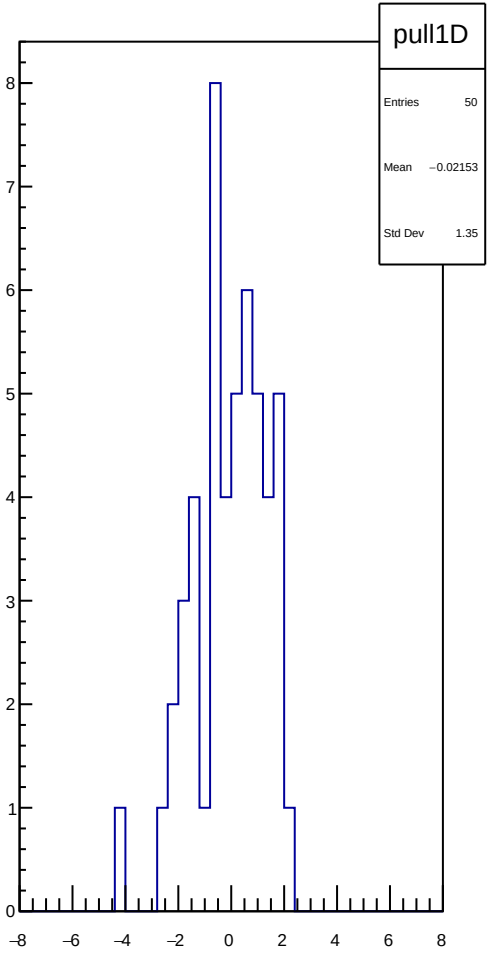

pull1D
Entries 50
Mean 0.03256
Std Dev 1.335

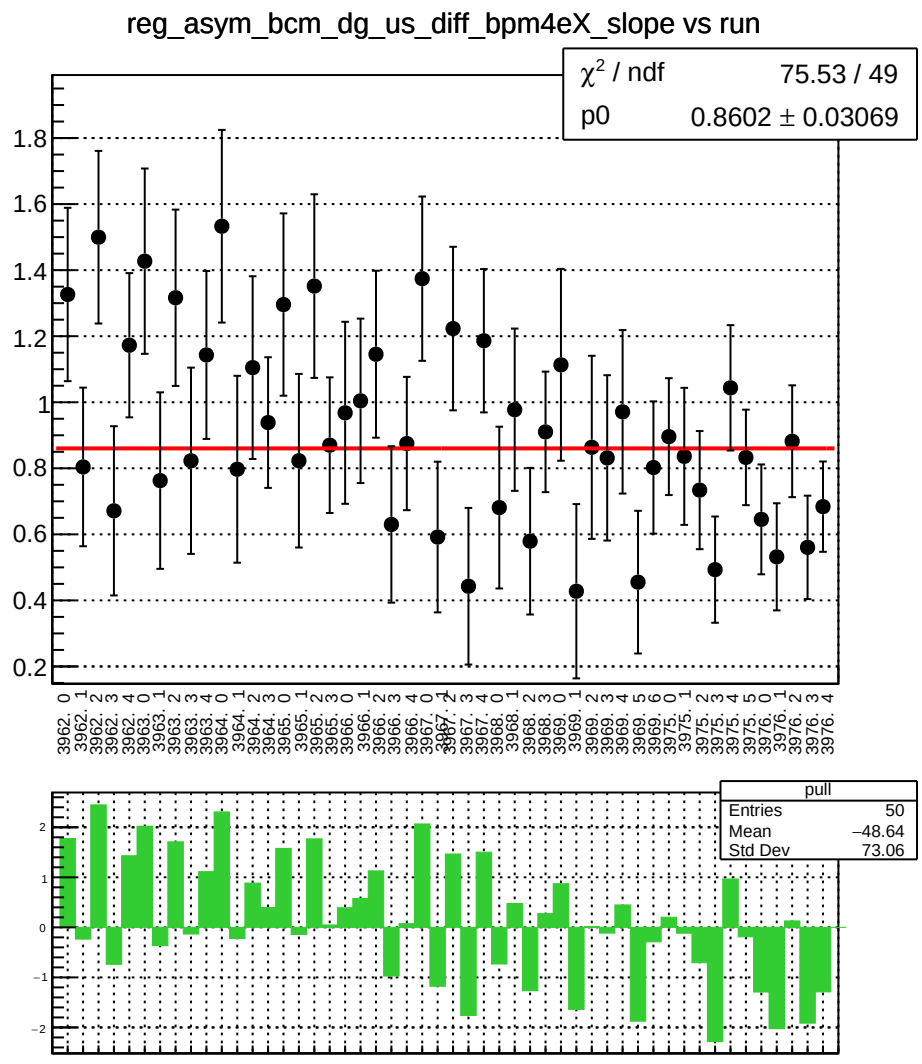

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 240.7 / 49
p0 2.133 ± 0.03405
pull
Entries 50
Mean −141.8
Std Dev 167.6
pull1D
Entries 50
Mean 0.1532
Std Dev 2.189

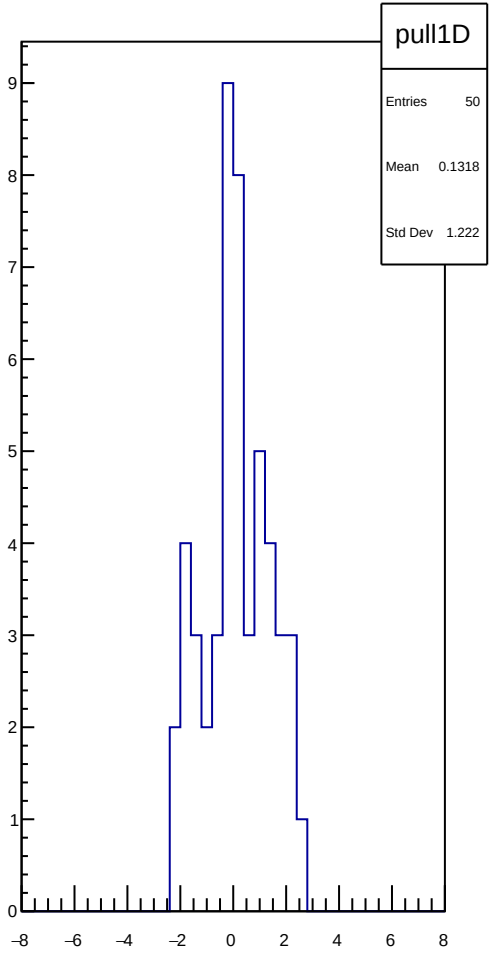

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 79.88 / 49
p0 −2.476 ± 0.1799
pull
Entries 50
Mean −35.97
Std Dev 62.03

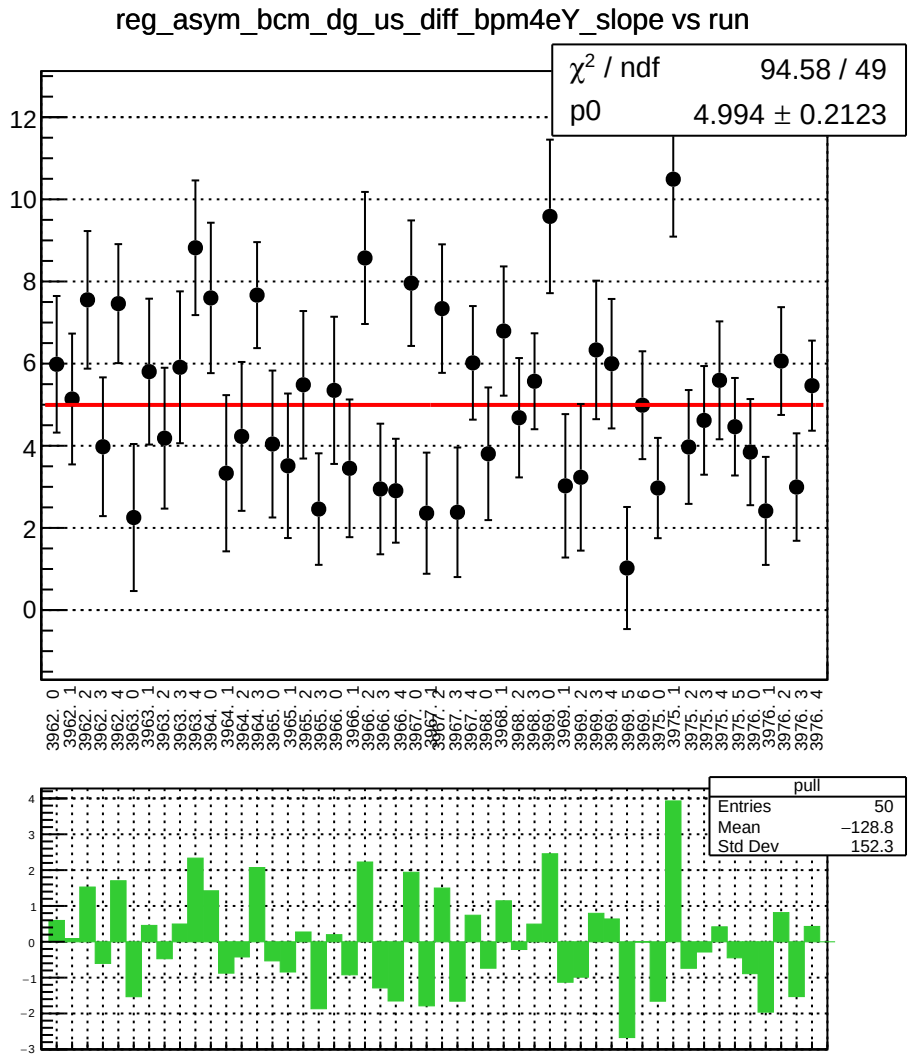

pull1D
Entries 50
Mean −0.07523
Std Dev 1.262

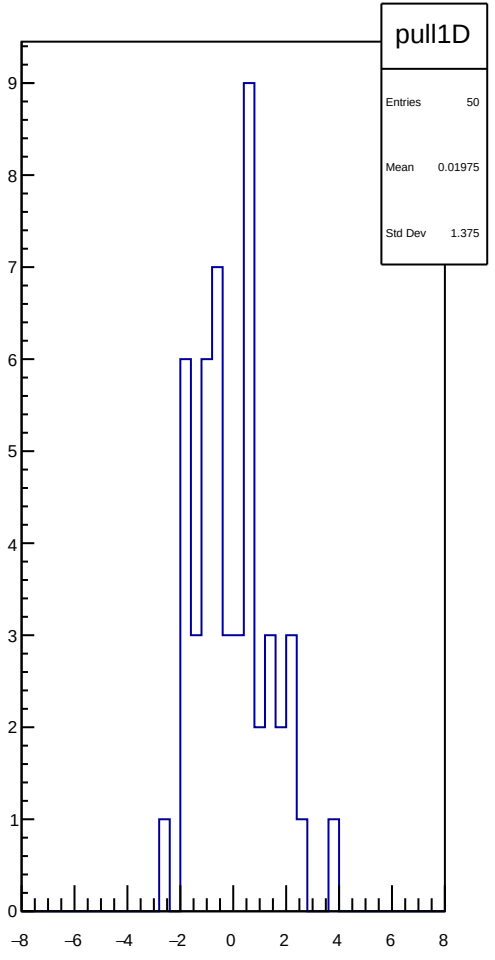

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 91.18 / 49
p0 −2.79 ± 0.1269
pull
Entries 50
Mean −77.72
Std Dev 99.95

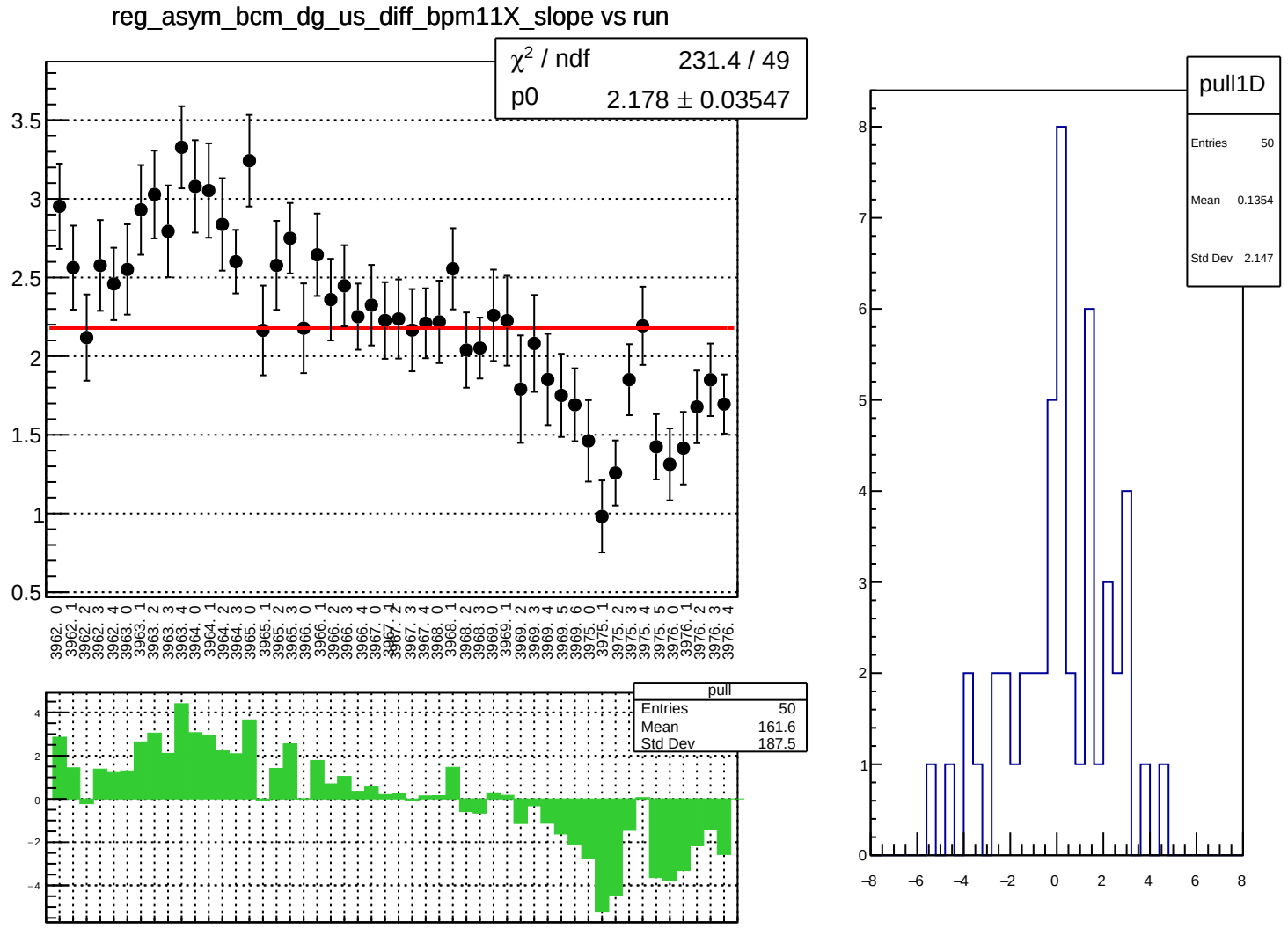

pull1D
Entries 50
Mean −0.02153
Std Dev 1.35

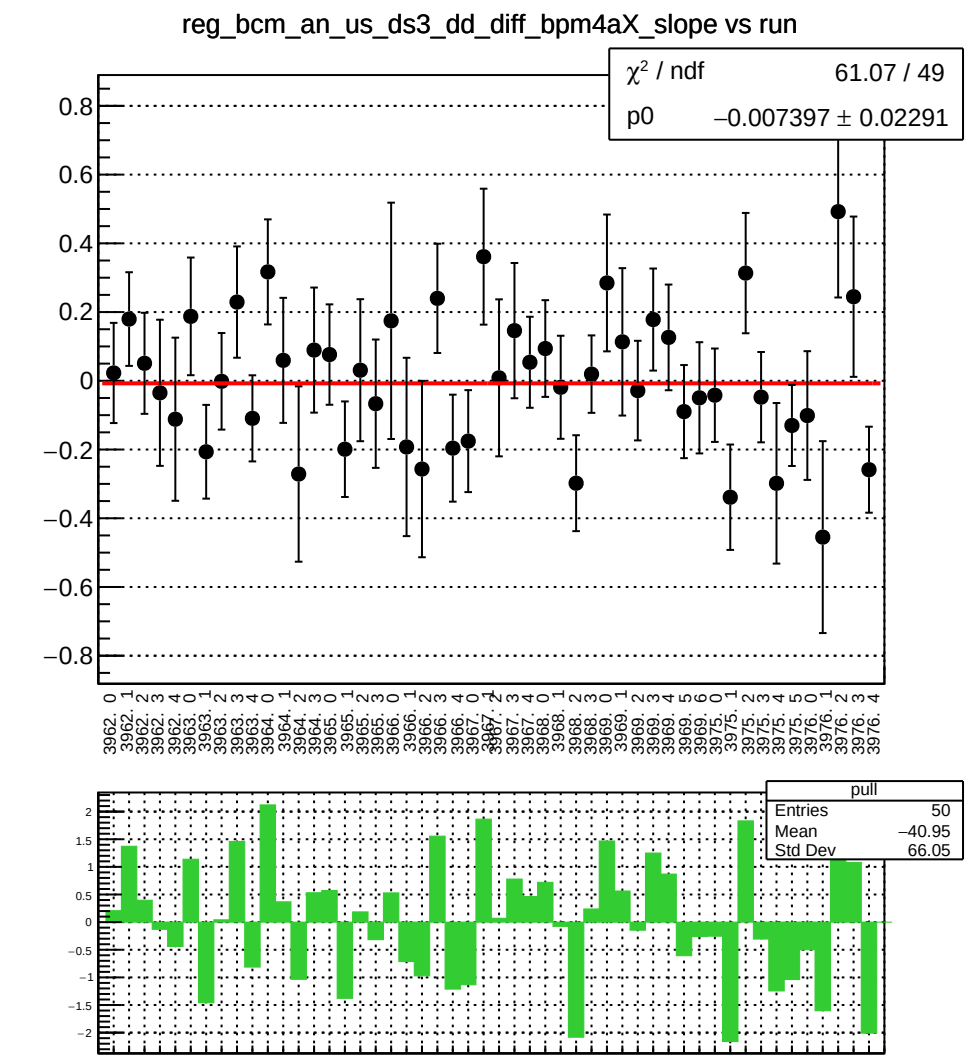

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 75.53 / 49
p0 0.8602 ± 0.03069
pull
Entries 50
Mean −48.64
Std Dev 73.06

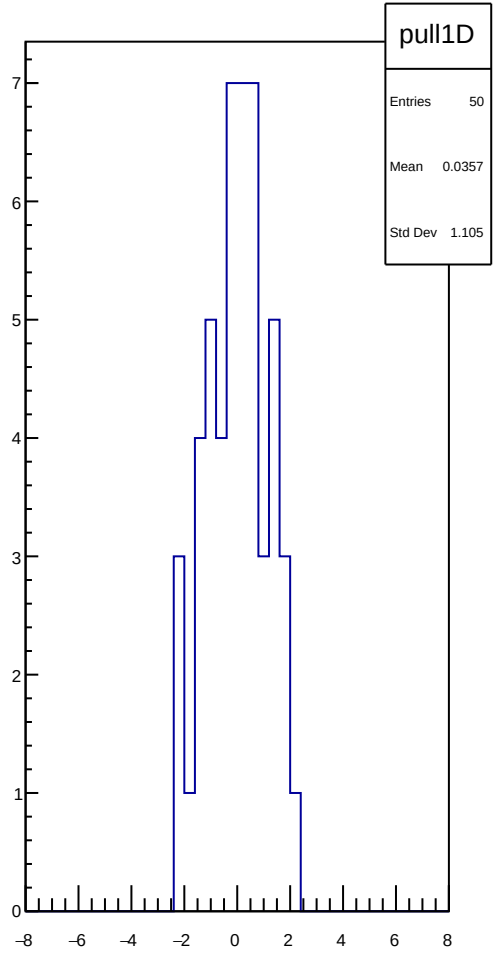

pull1D
Entries 50
Mean 0.1318
Std Dev 1.222

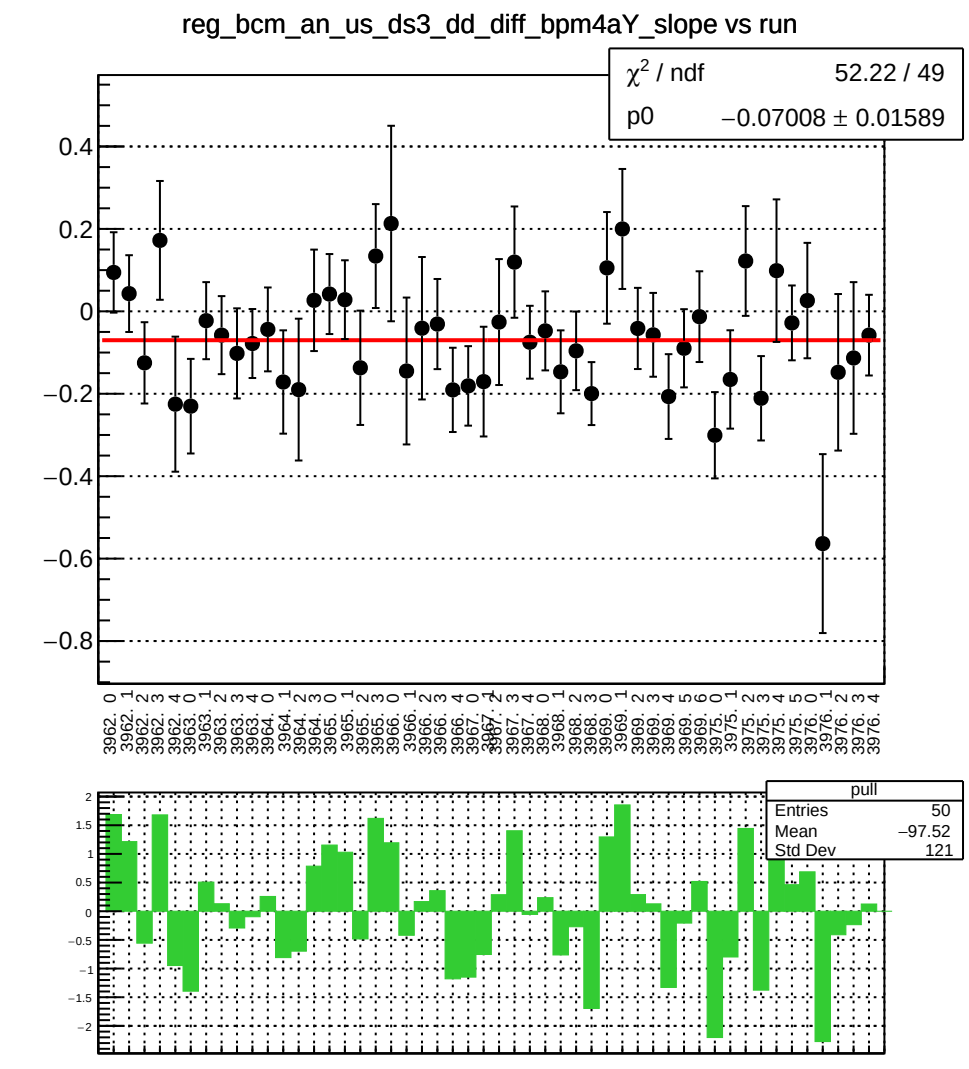

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 94.58 / 49
p0 4.994 ± 0.2123
pull
Entries 50
Mean −128.8
Std Dev 152.3

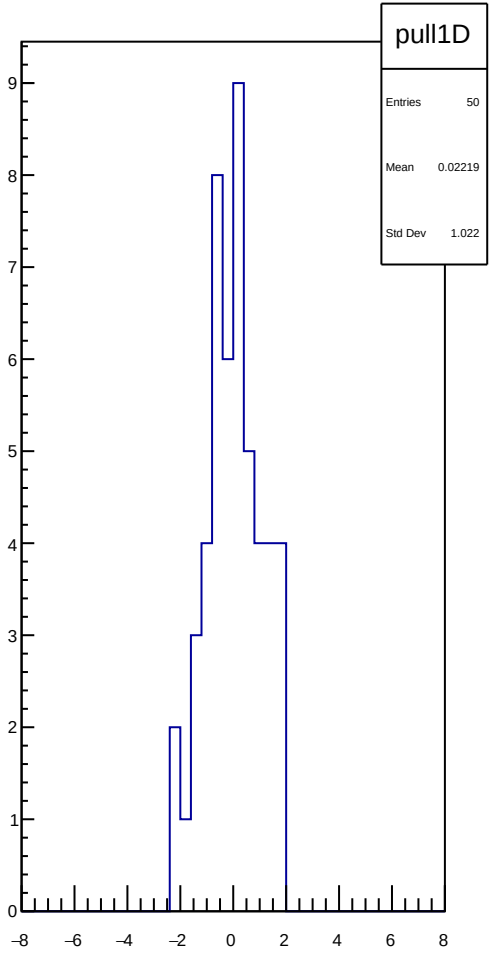

pull1D
Entries 50
Mean 0.01975
Std Dev 1.375

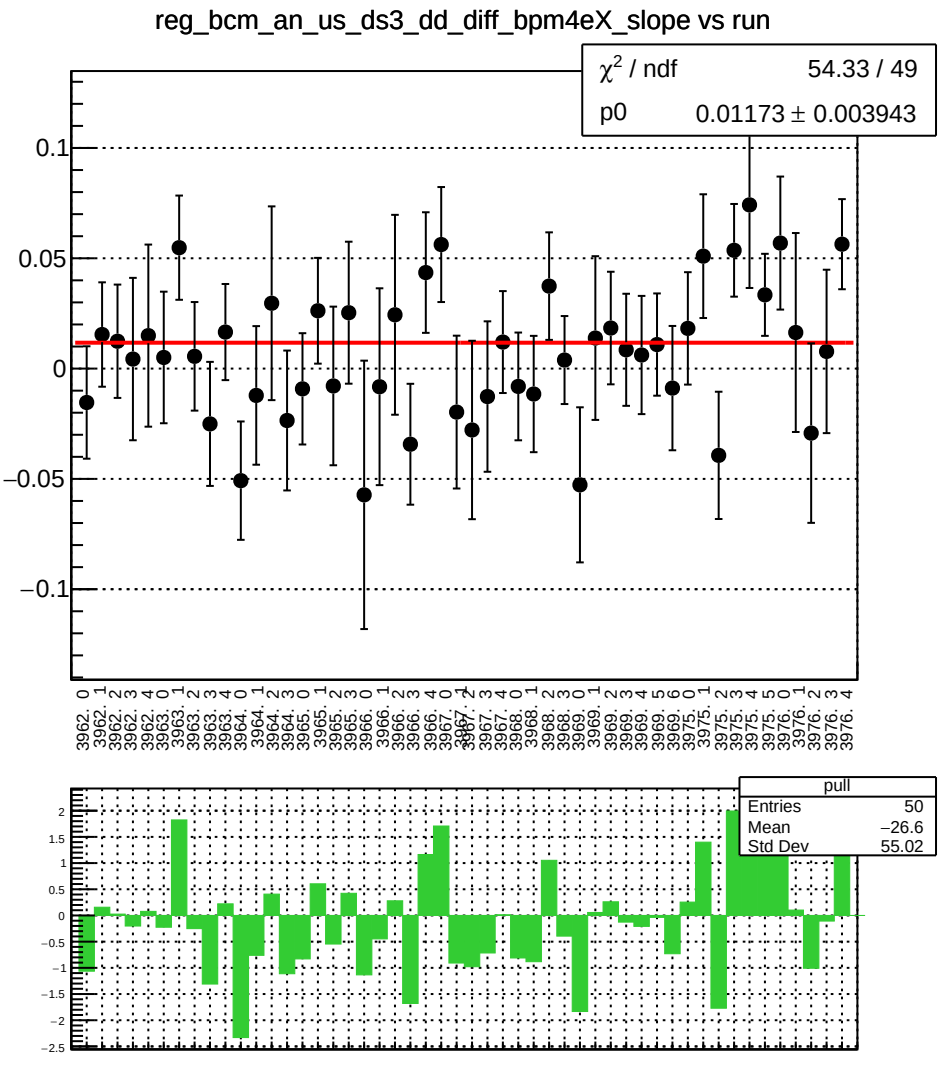

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 231.4 / 49
p0 2.178 ± 0.03547
pull
Entries 50
Mean −161.6
Std Dev 187.5
pull1D
Entries 50
Mean 0.1354
Std Dev 2.147

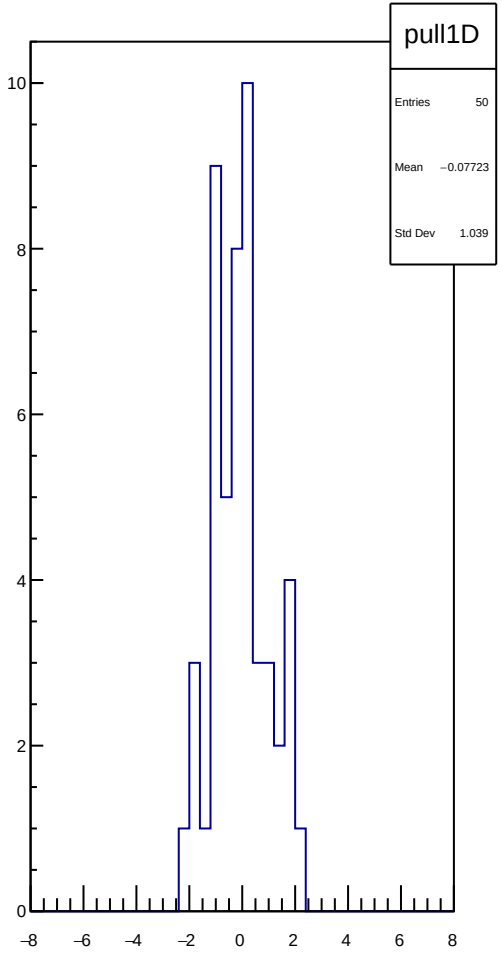

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 61.07 / 49
p0 −0.007397 ± 0.02291
pull
Entries 50
Mean −40.95
Std Dev 66.05

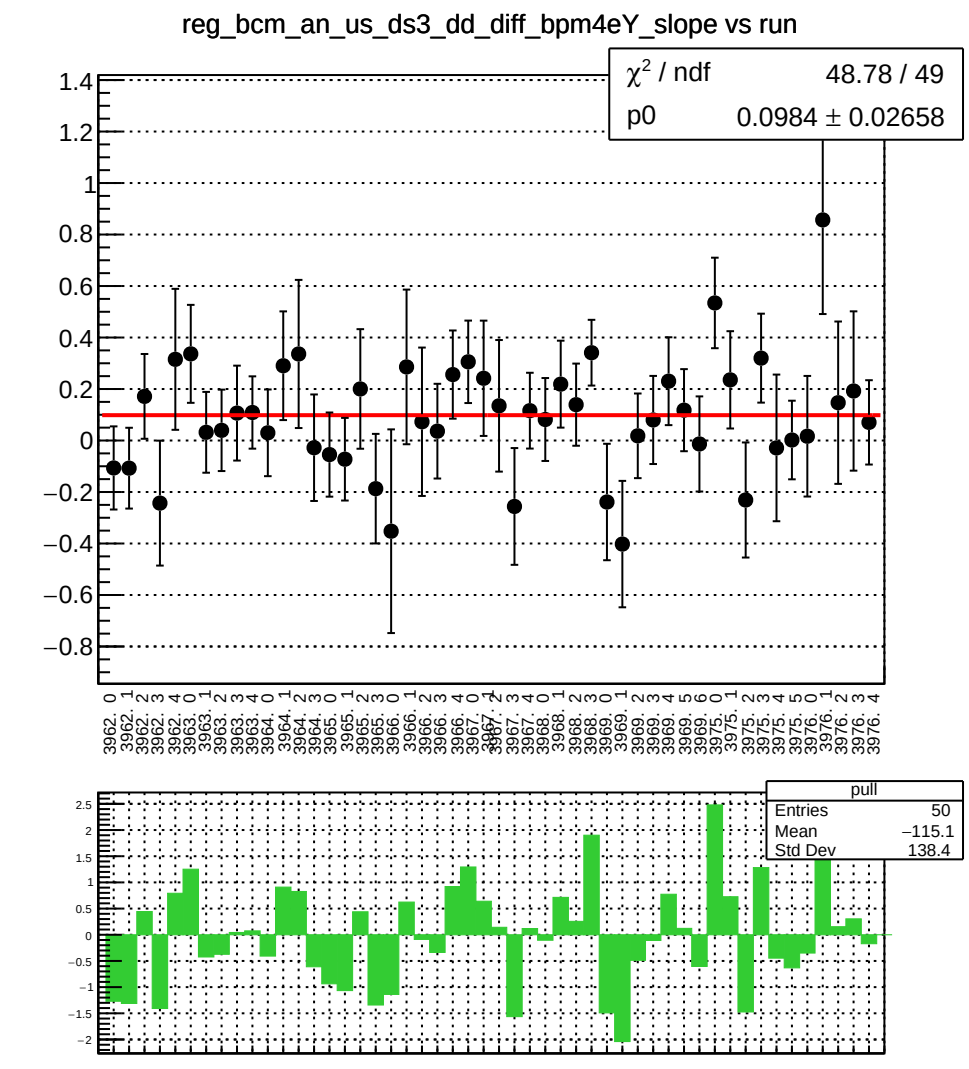

pull1D
Entries 50
Mean 0.0357
Std Dev 1.105

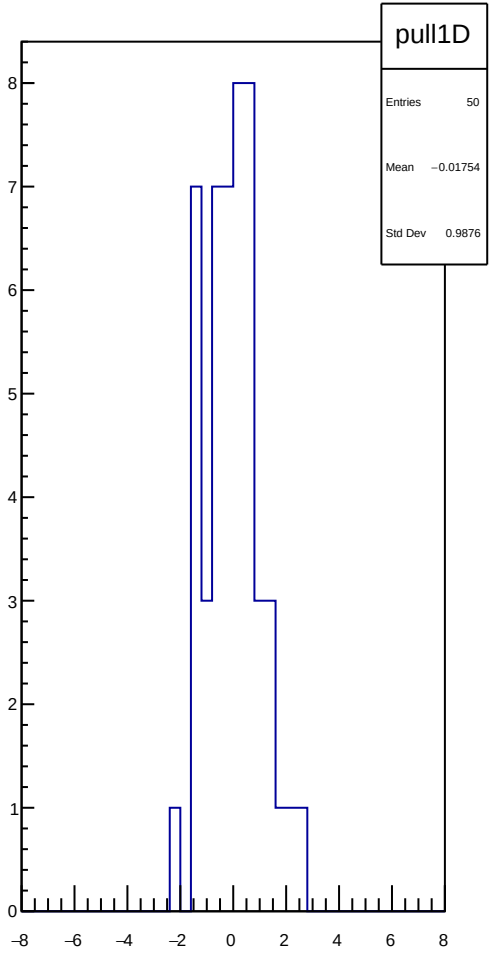

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.22 / 49
p0 −0.07008 ± 0.01589
pull
Entries 50
Mean −97.52
Std Dev 121

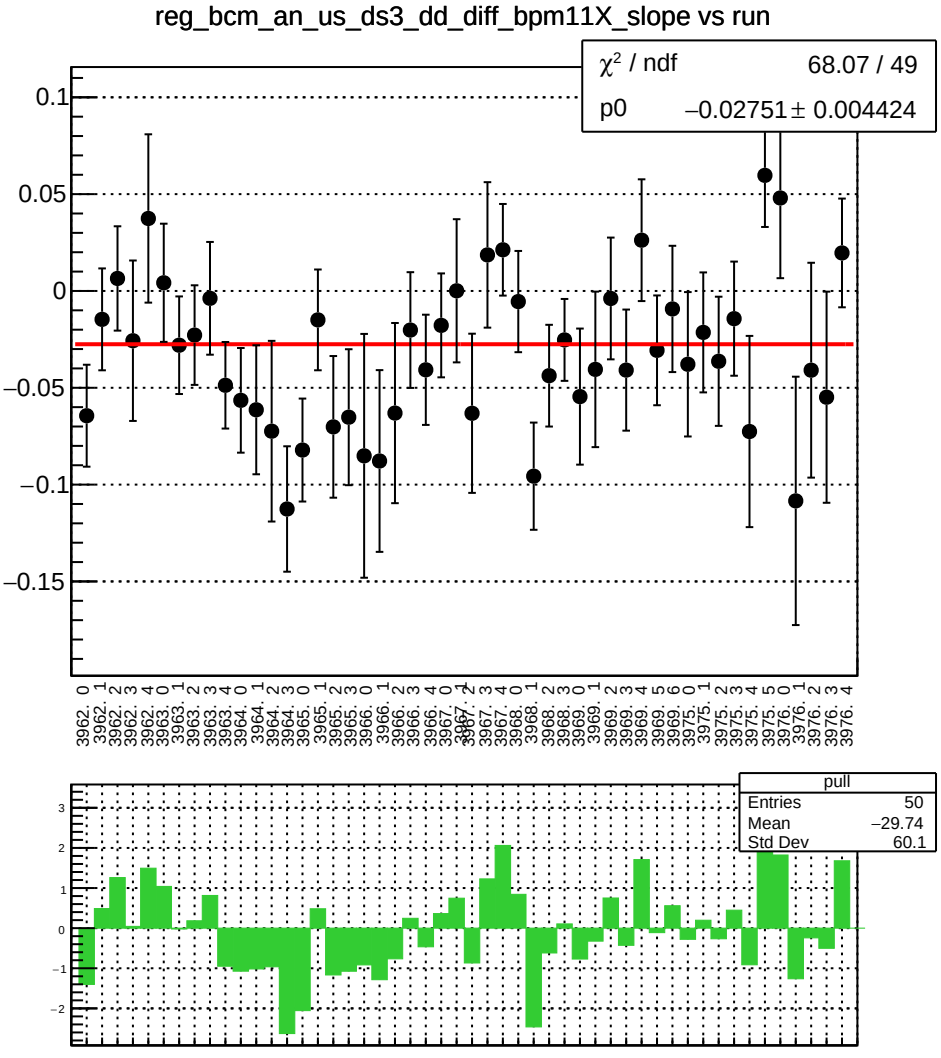

pull1D
Entries 50
Mean 0.02219
Std Dev 1.022

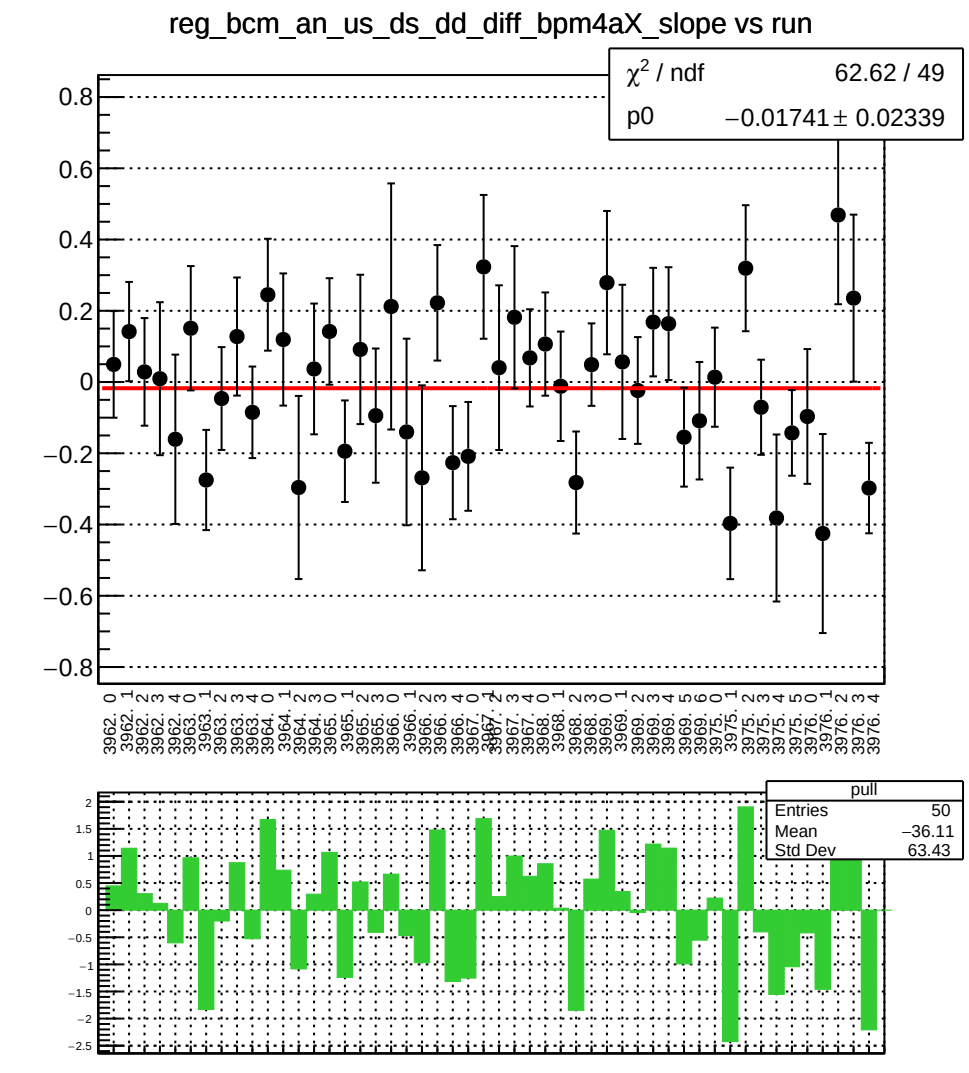

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.33 / 49
p0 0.01173 ± 0.003943
pull
Entries 50
Mean −26.6
Std Dev 55.02

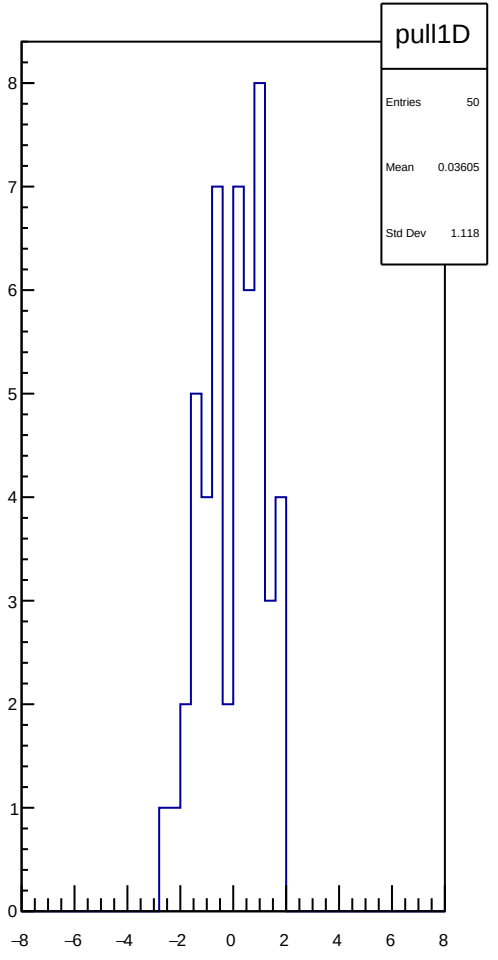

pull1D
Entries 50
Mean −0.07723
Std Dev 1.039

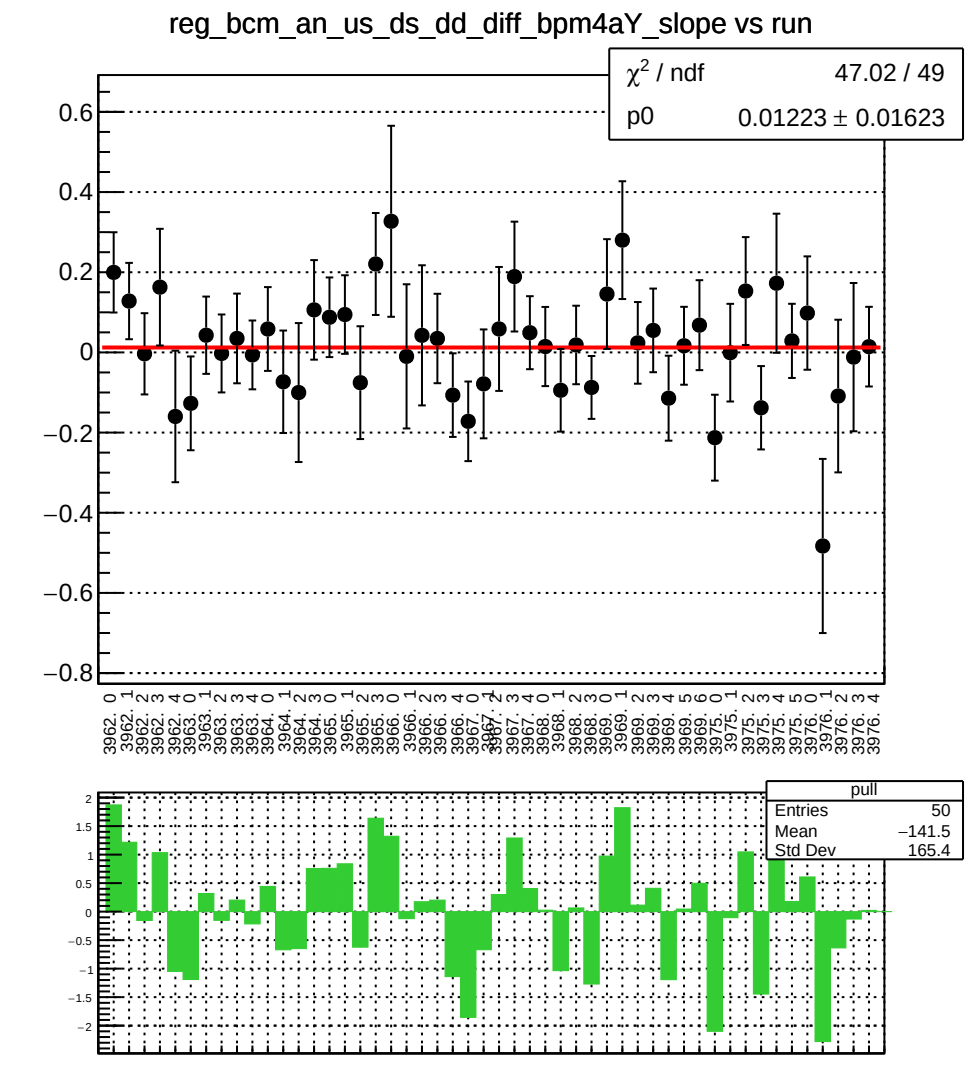

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.78 / 49
p0 0.0984 ± 0.02658
pull
Entries 50
Mean −115.1
Std Dev 138.4

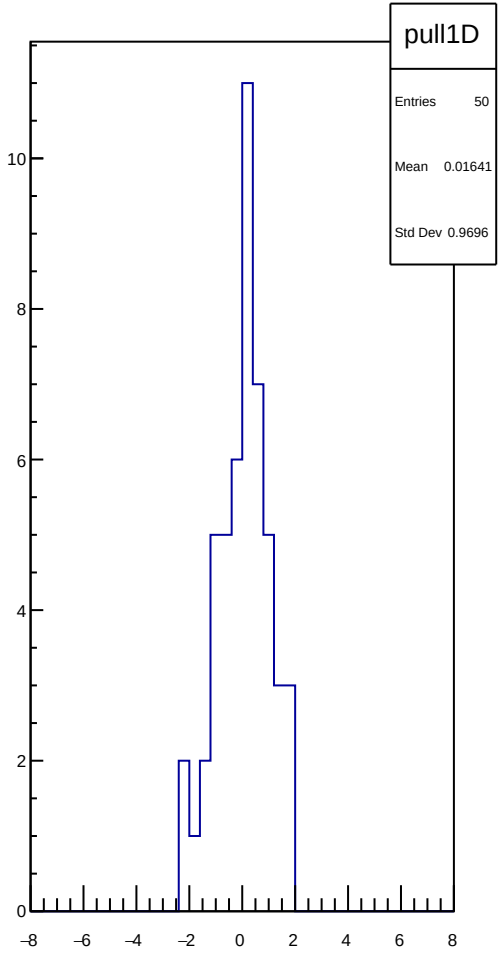

pull1D
Entries 50
Mean −0.01754
Std Dev 0.9876

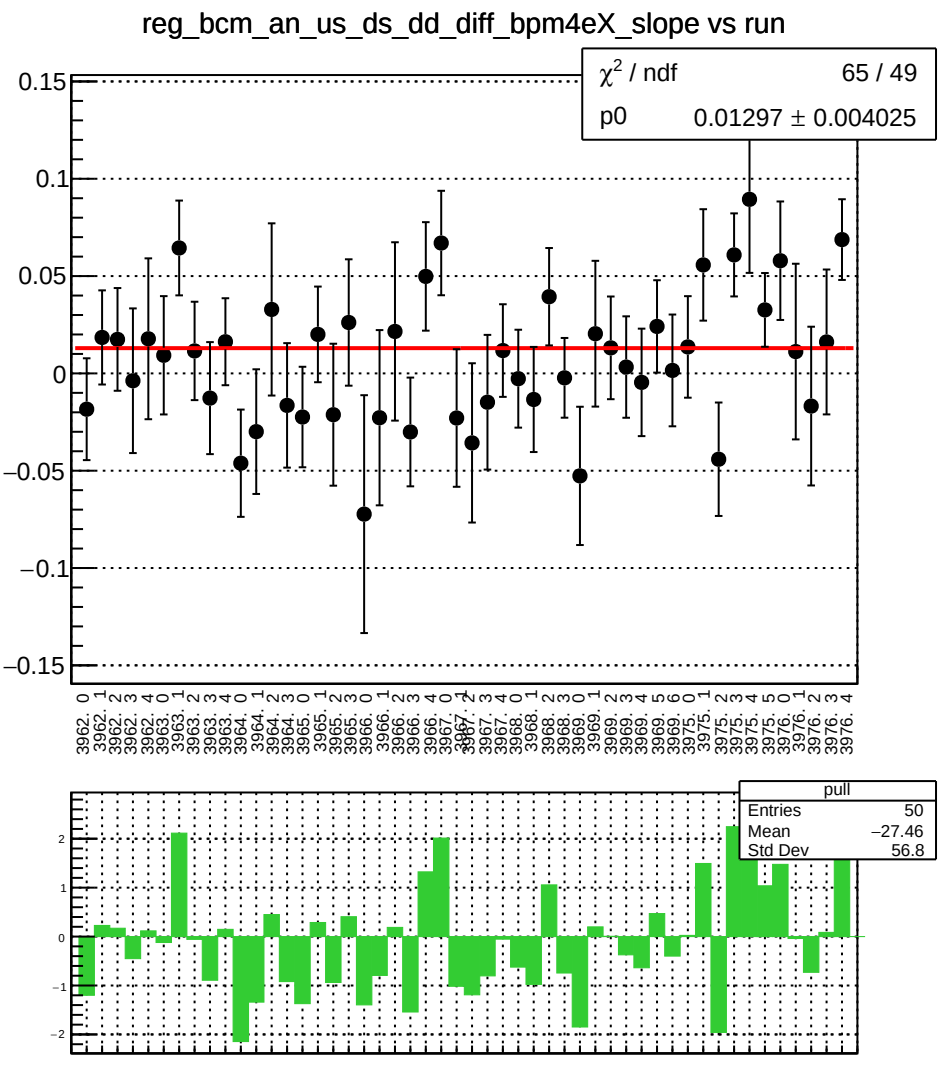

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 68.07 / 49
p0 −0.02751 ± 0.004424
0.1
0.05
0
−0.05
−0.1
−0.15
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −29.74
Std Dev 60.1
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.05944
Std Dev 1.165
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

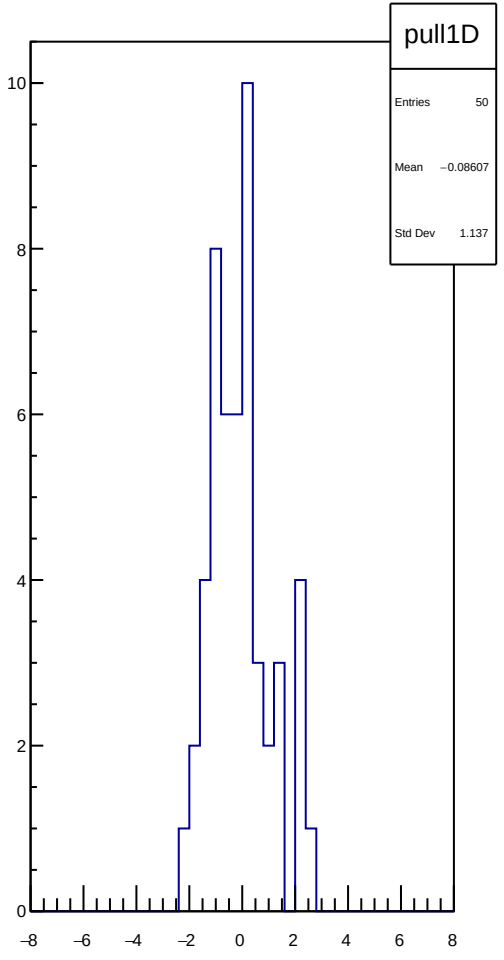

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 62.62 / 49
p0 −0.01741 ± 0.02339
pull
Entries 50
Mean −36.11
Std Dev 63.43

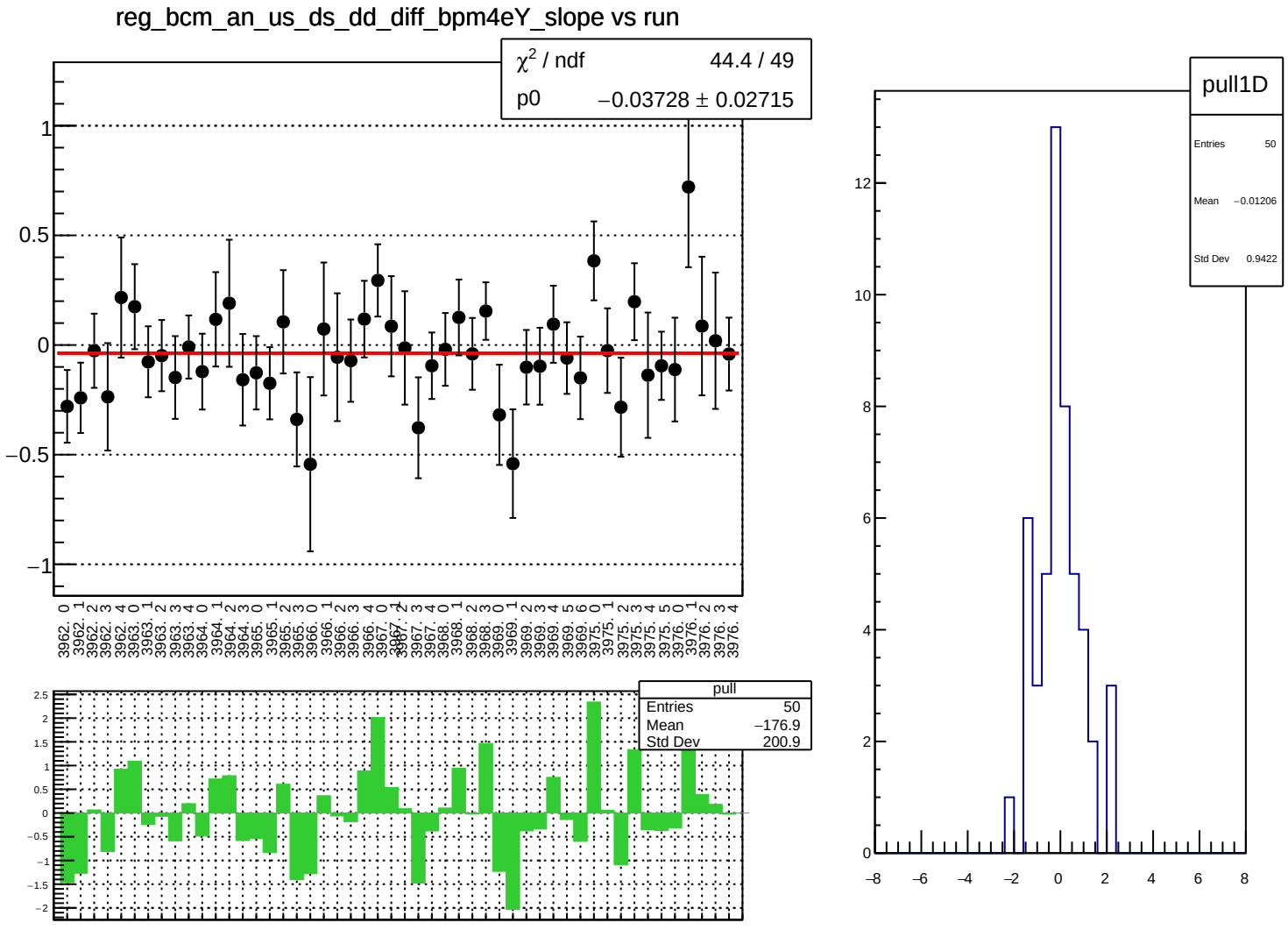

pull1D
Entries 50
Mean 0.03605
Std Dev 1.118

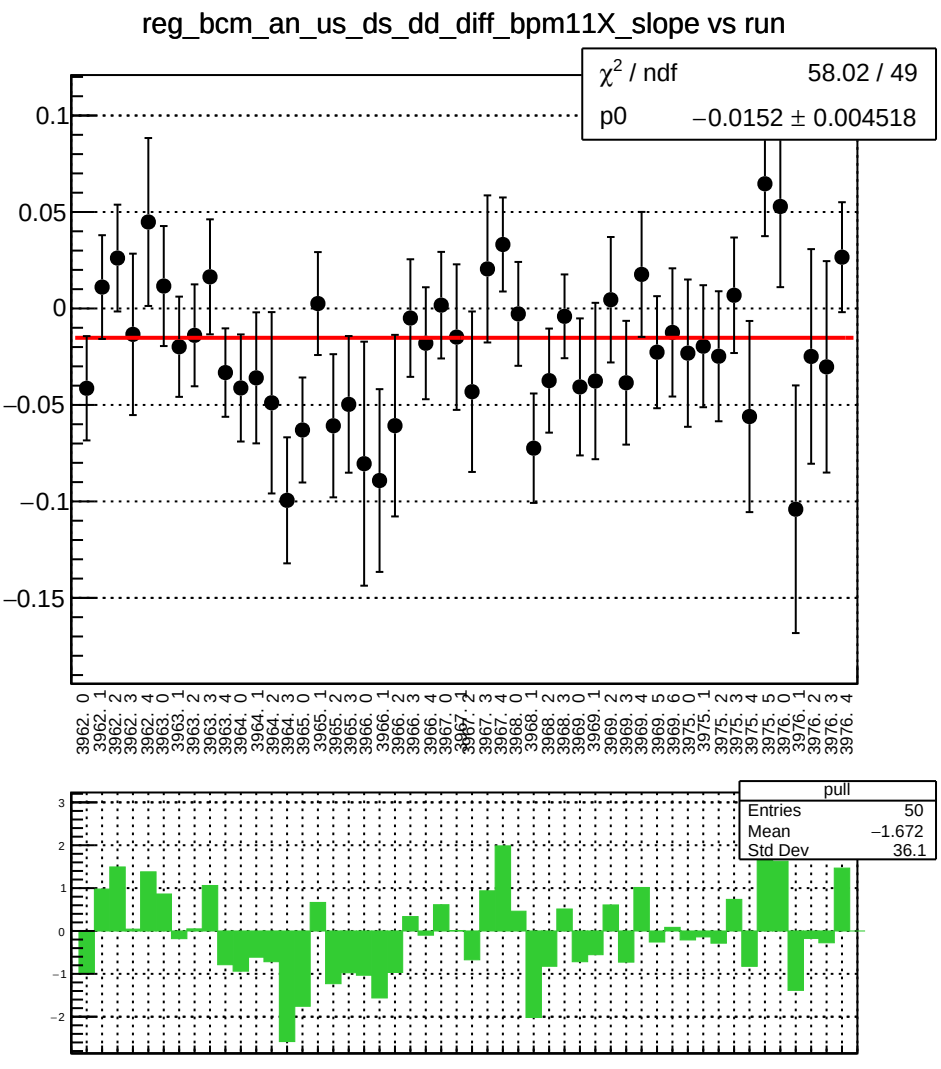

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.02 / 49
p0 0.01223 ± 0.01623
pull
Entries 50
Mean −141.5
Std Dev 165.4

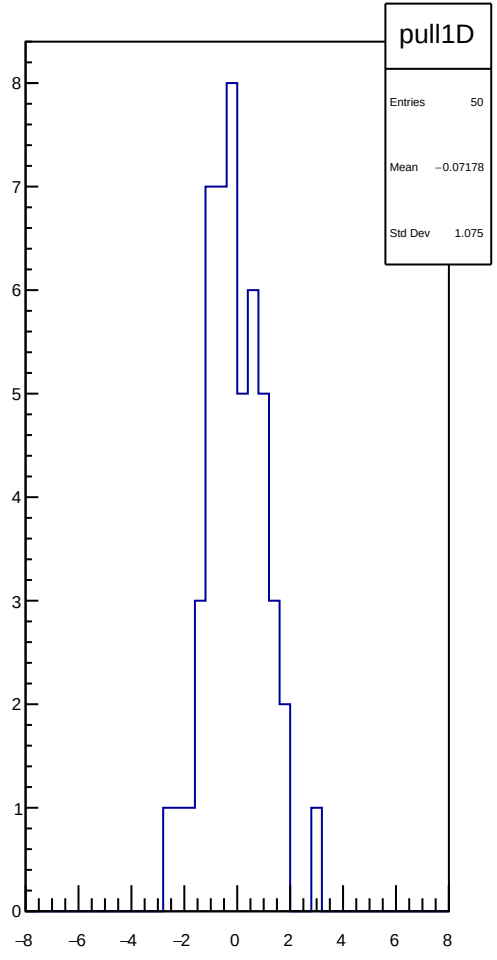

pull1D
Entries 50
Mean 0.01641
Std Dev 0.9696

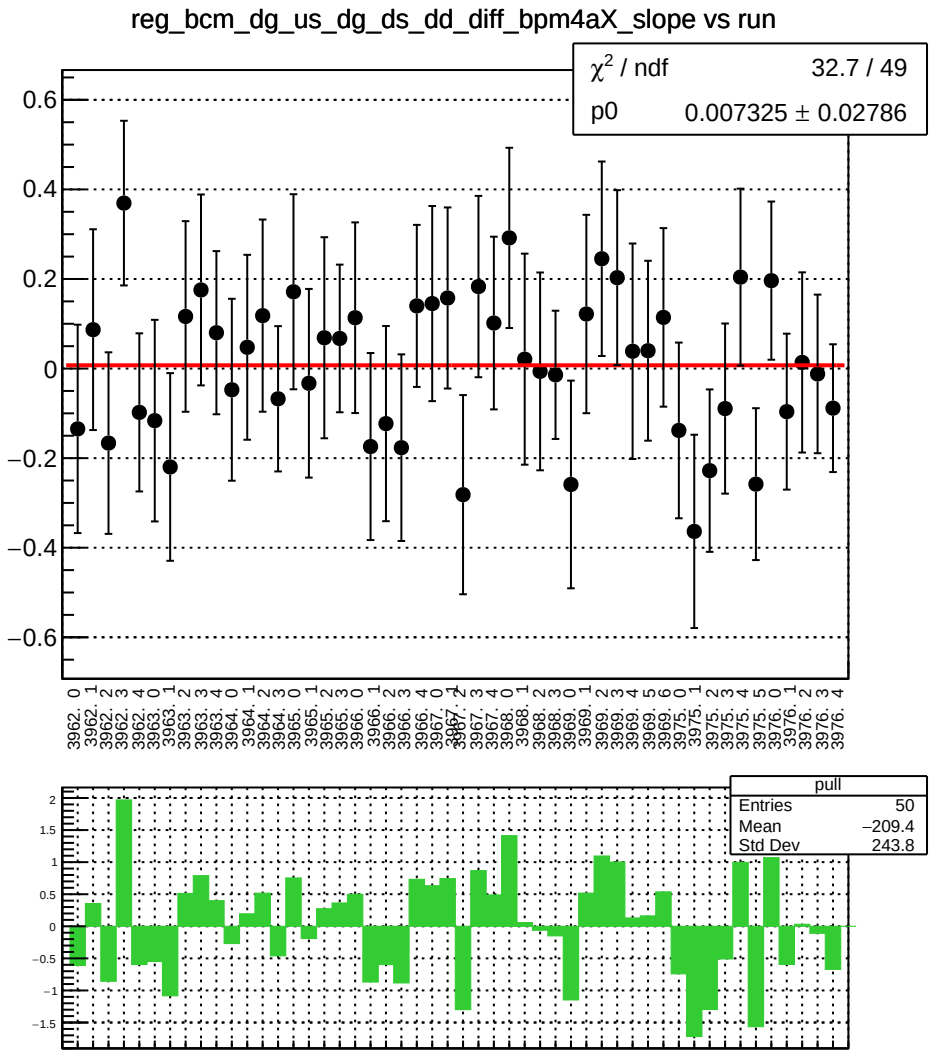

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 65 / 49
p0 0.01297 ± 0.004025
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 50
Mean −27.46
Std Dev 56.8
2
1
0
−1
−2

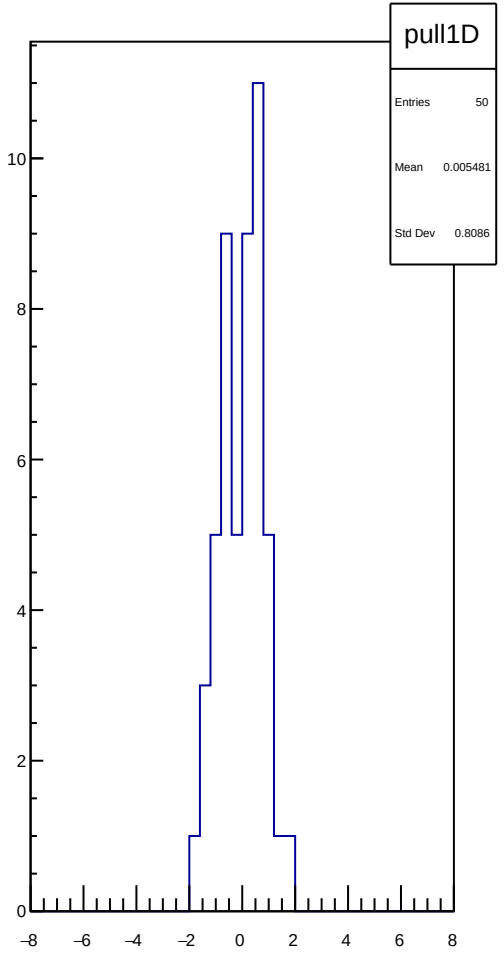

pull1D
Entries 50
Mean −0.08607
Std Dev 1.137
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

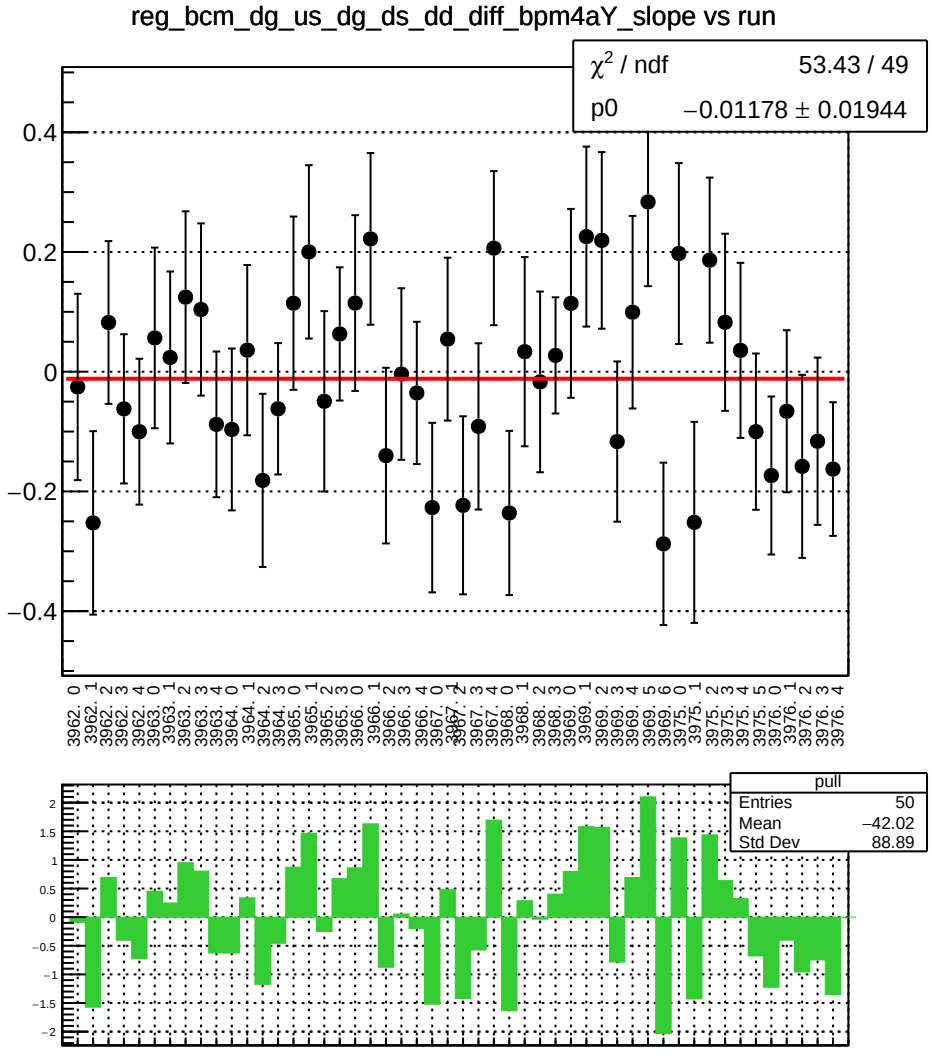

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.4 / 49
p0 −0.03728 ± 0.02715
pull
Entries 50
Mean −176.9
Std Dev 200.9
pull1D
Entries 50
Mean −0.01206
Std Dev 0.9422

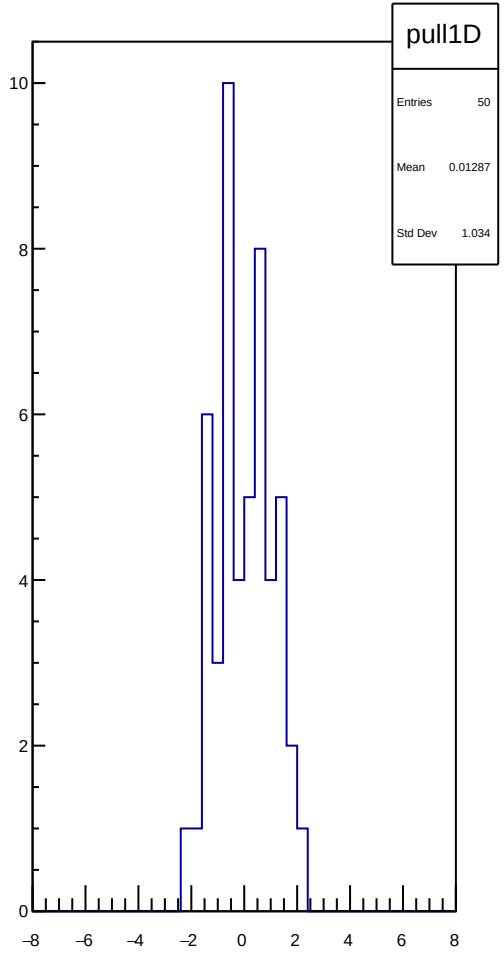

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 58.02 / 49
p0 −0.0152 ± 0.004518
pull
Entries 50
Mean −1.672
Std Dev 36.1

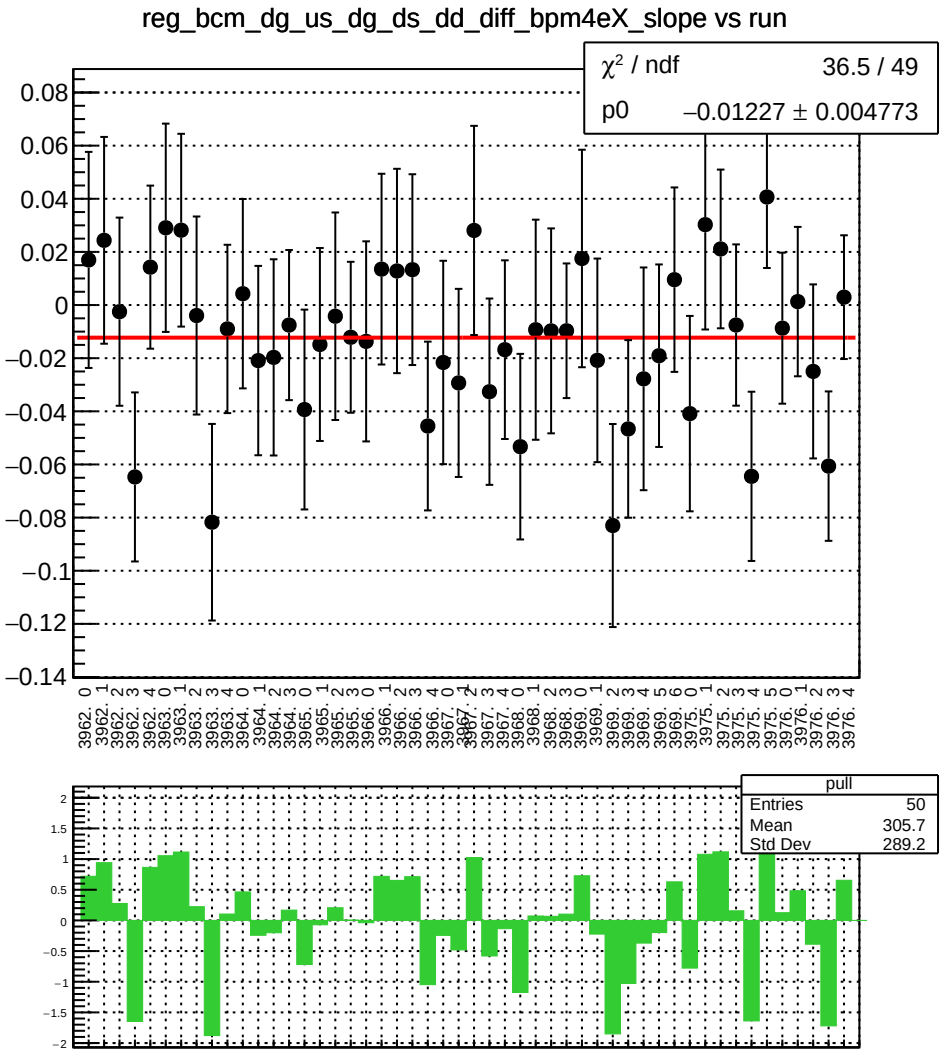

pull1D
Entries 50
Mean −0.07178
Std Dev 1.075

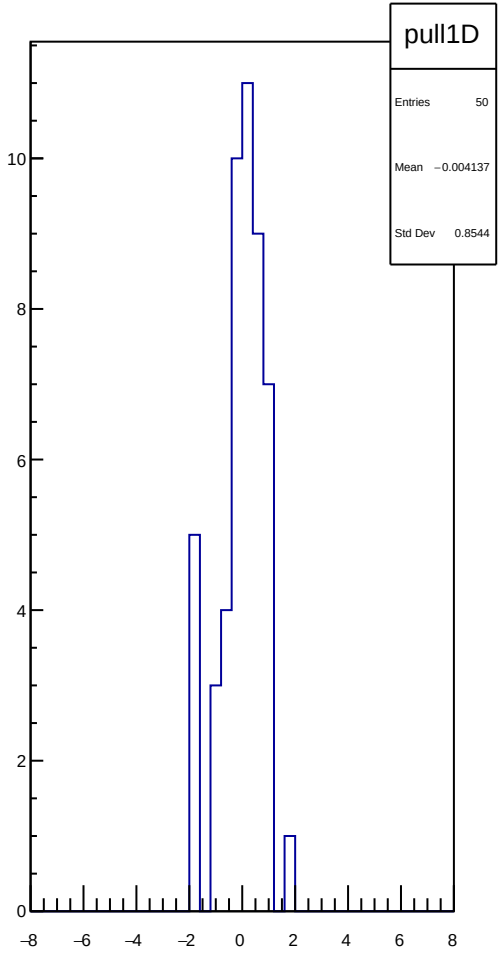

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 32.7 / 49
p0 0.007325 ± 0.02786
pull
Entries 50
Mean −209.4
Std Dev 243.8

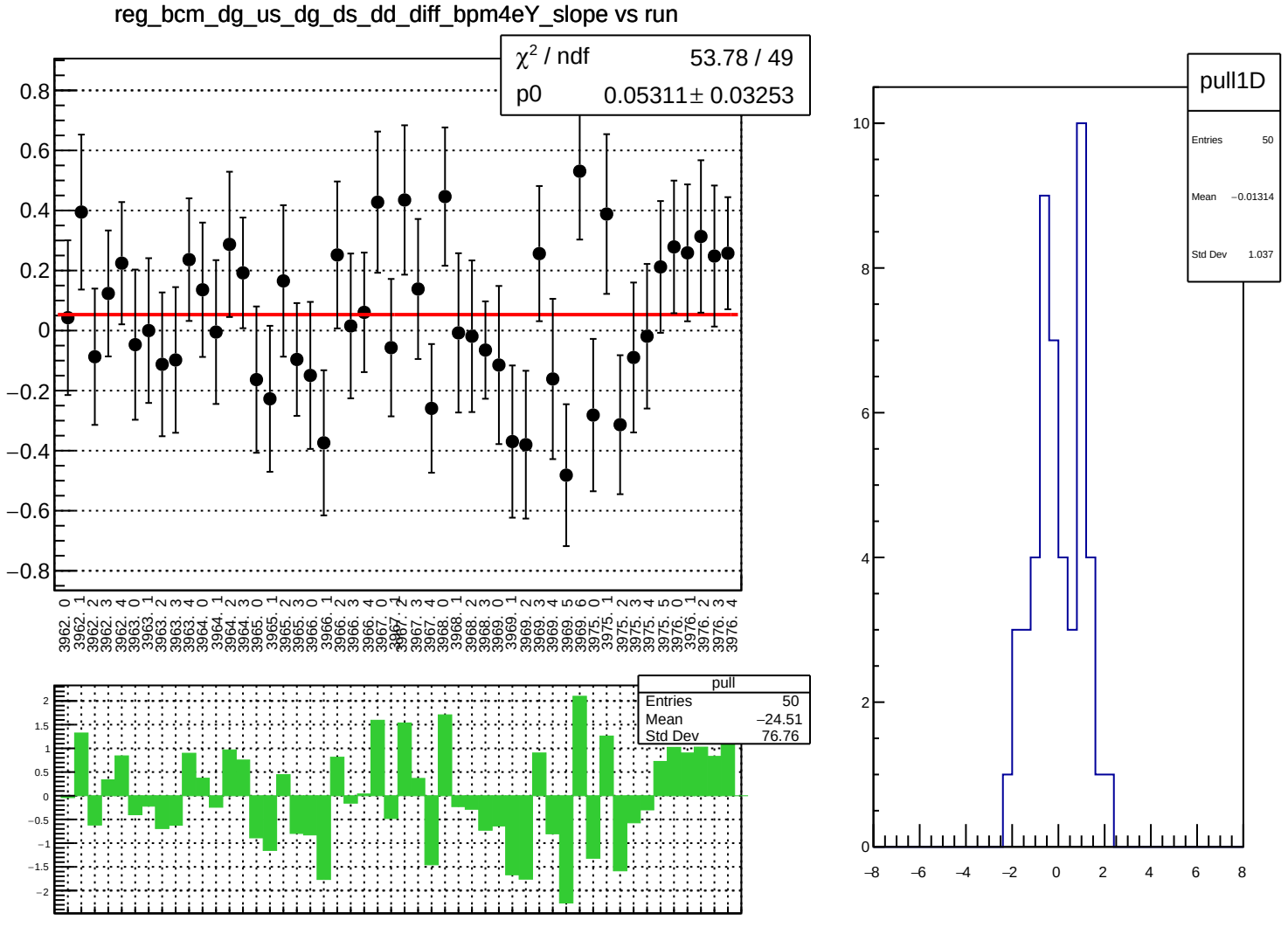

pull1D
Entries 50
Mean 0.005481
Std Dev 0.8086

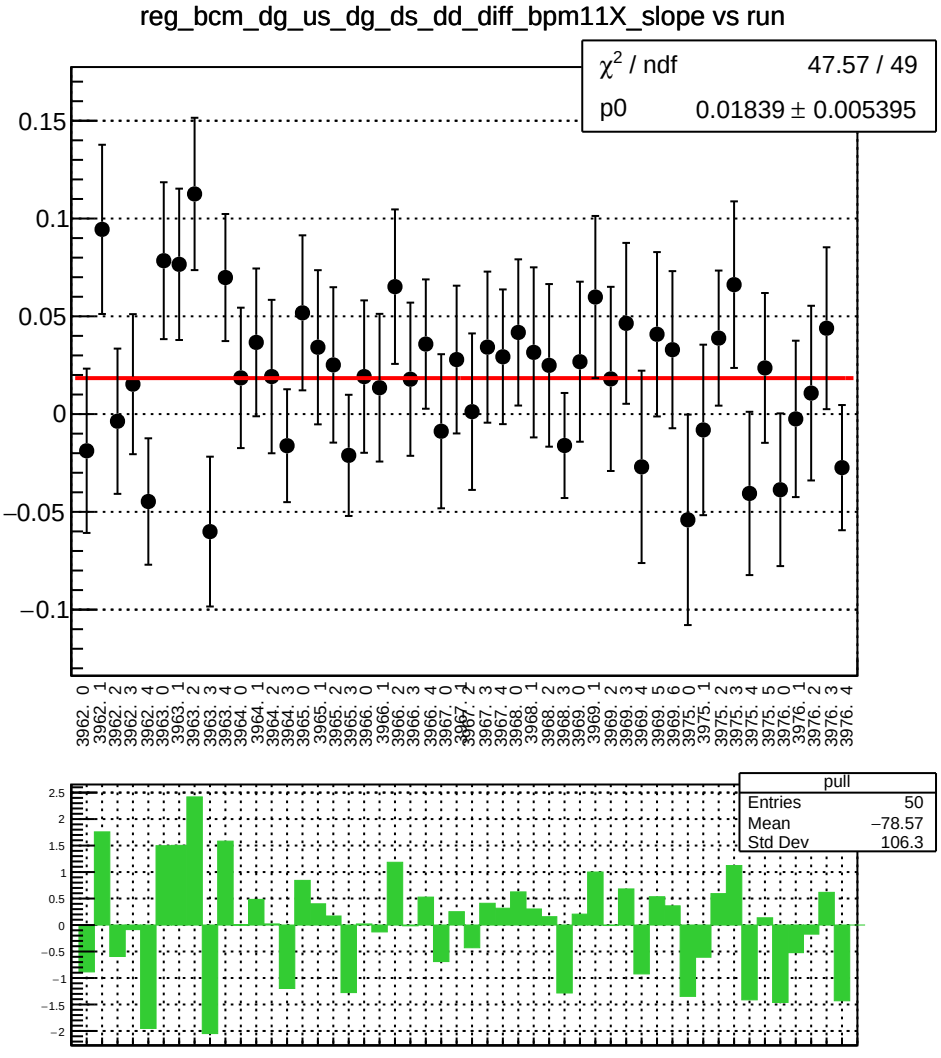

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.43 / 49
p0 −0.01178 ± 0.01944
pull
Entries 50
Mean −42.02
Std Dev 88.89

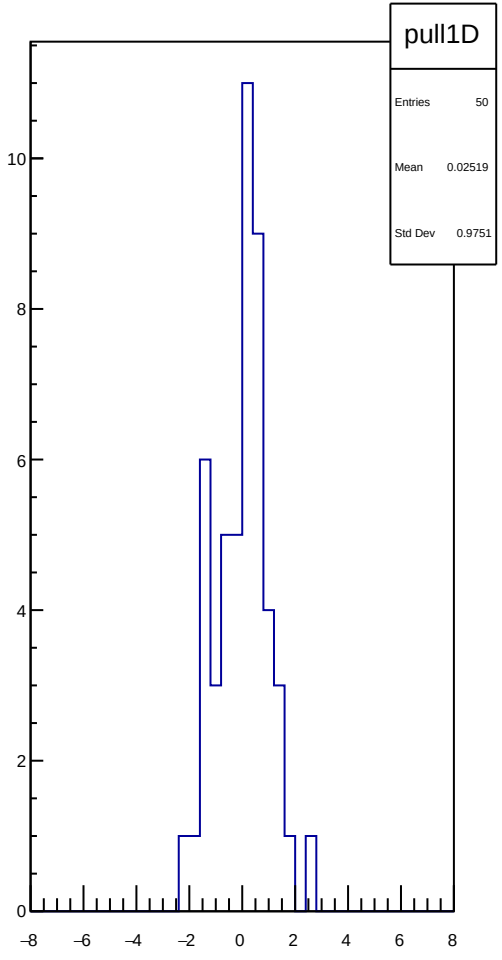

pull1D
Entries 50
Mean 0.01287
Std Dev 1.034

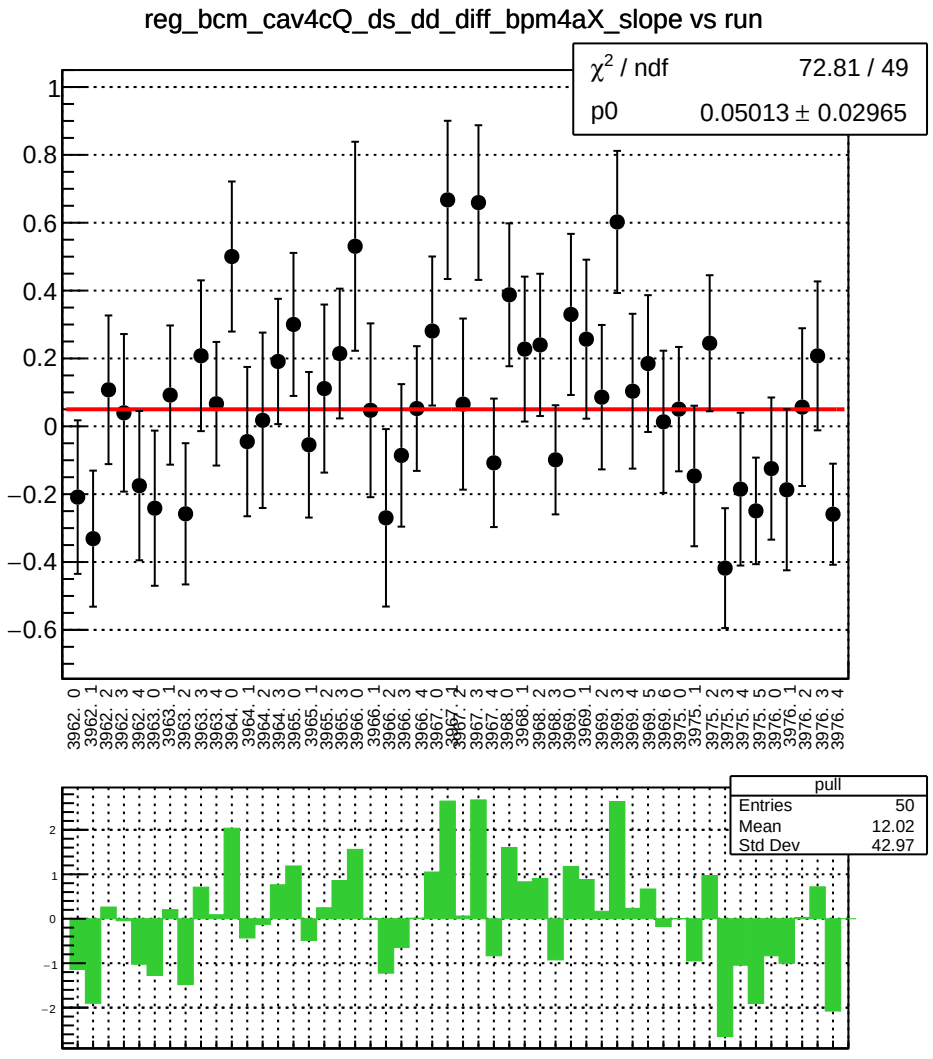

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.5 / 49
p0 −0.01227 ± 0.004773
pull
Entries 50
Mean 305.7
Std Dev 289.2

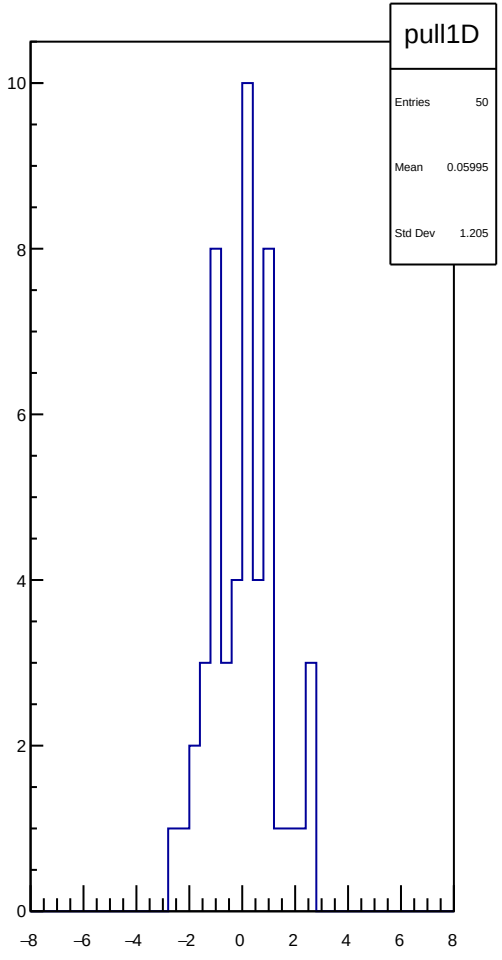

pull1D
Entries 50
Mean −0.004137
Std Dev 0.8544

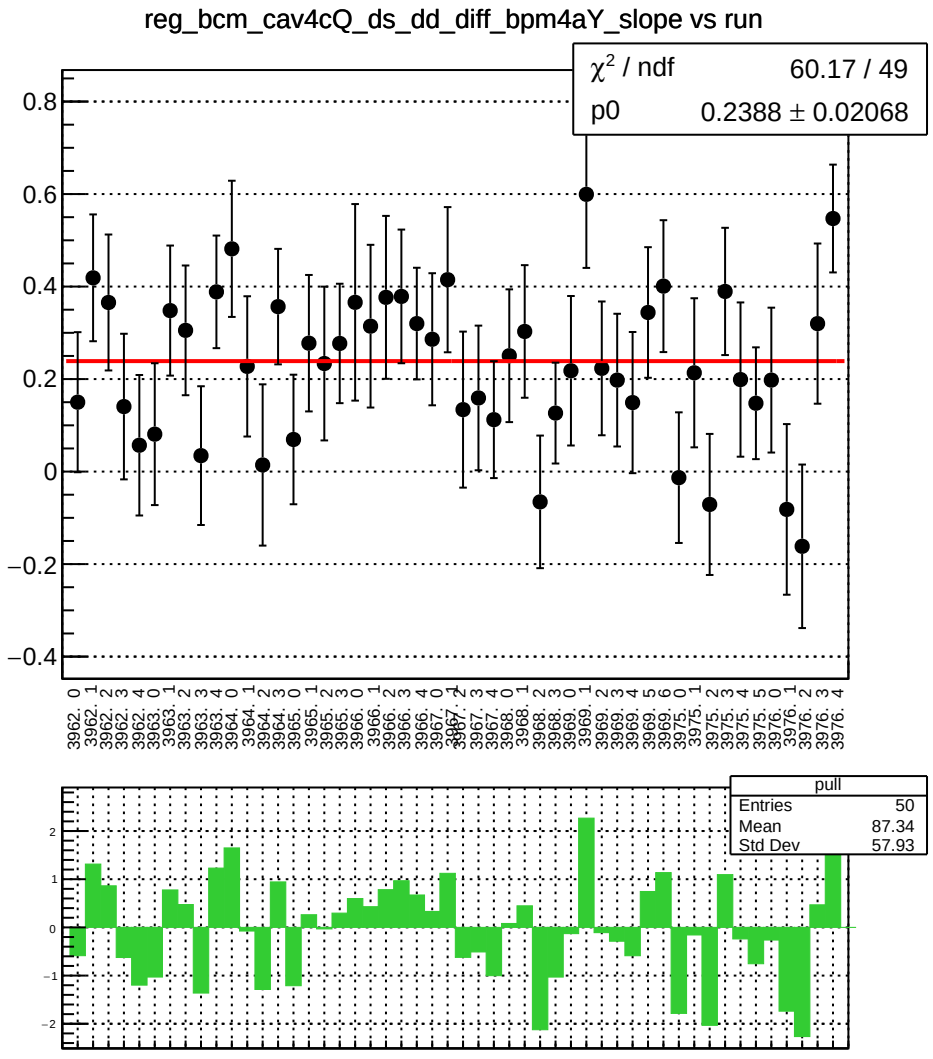

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.78 / 49
p0 0.05311 ± 0.03253
pull
Entries 50
Mean −24.51
Std Dev 76.76
pull1D
Entries 50
Mean −0.01314
Std Dev 1.037

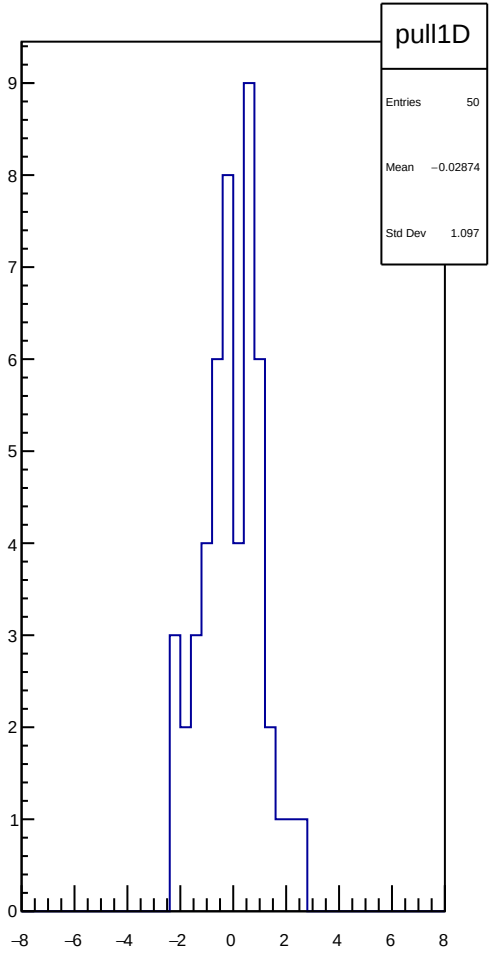

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 47.57 / 49
p0 0.01839 ± 0.005395
pull
Entries 50
Mean −78.57
Std Dev 106.3

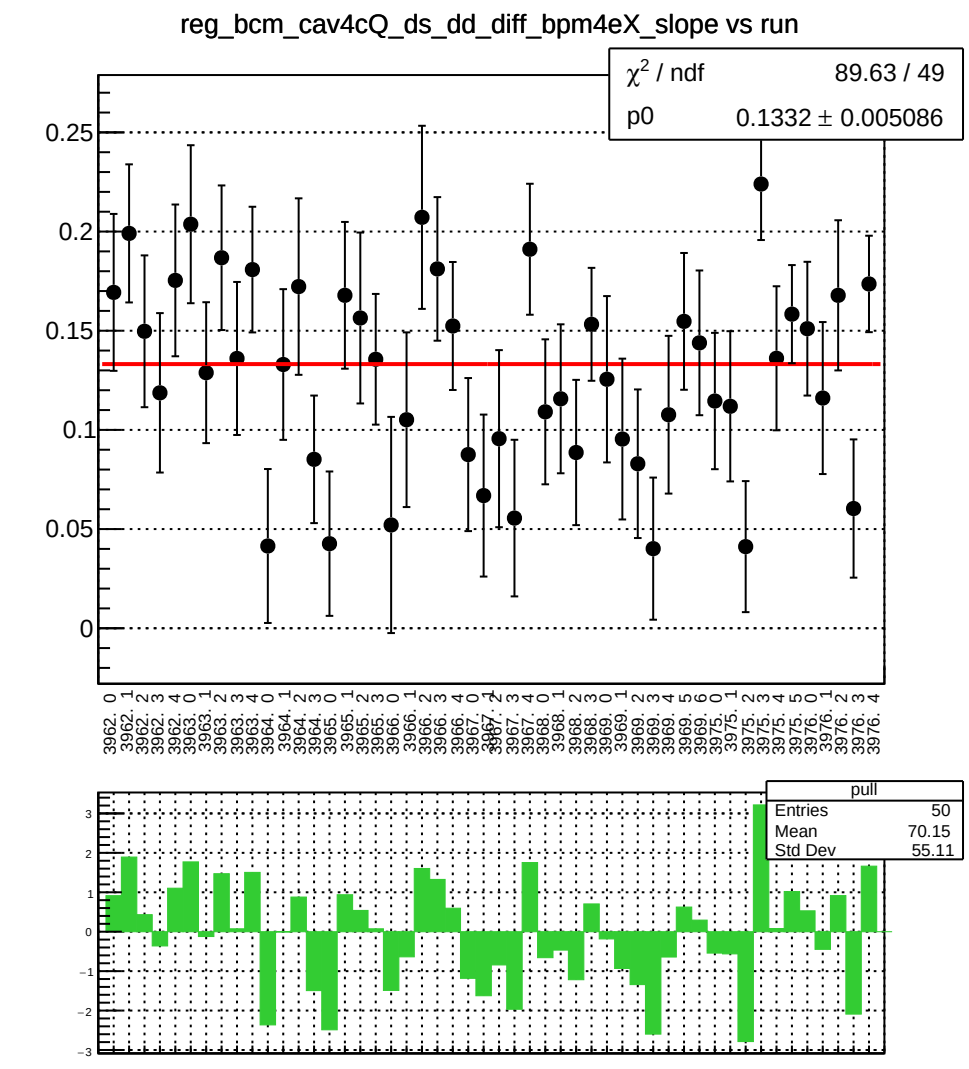

pull1D
Entries 50
Mean 0.02519
Std Dev 0.9751

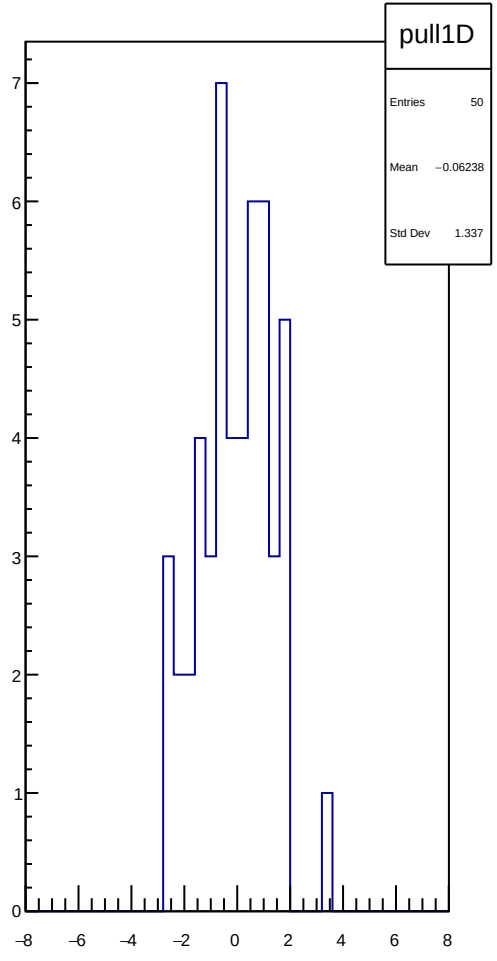

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 72.81 / 49
p0 0.05013 ± 0.02965
pull
Entries 50
Mean 12.02
Std Dev 42.97

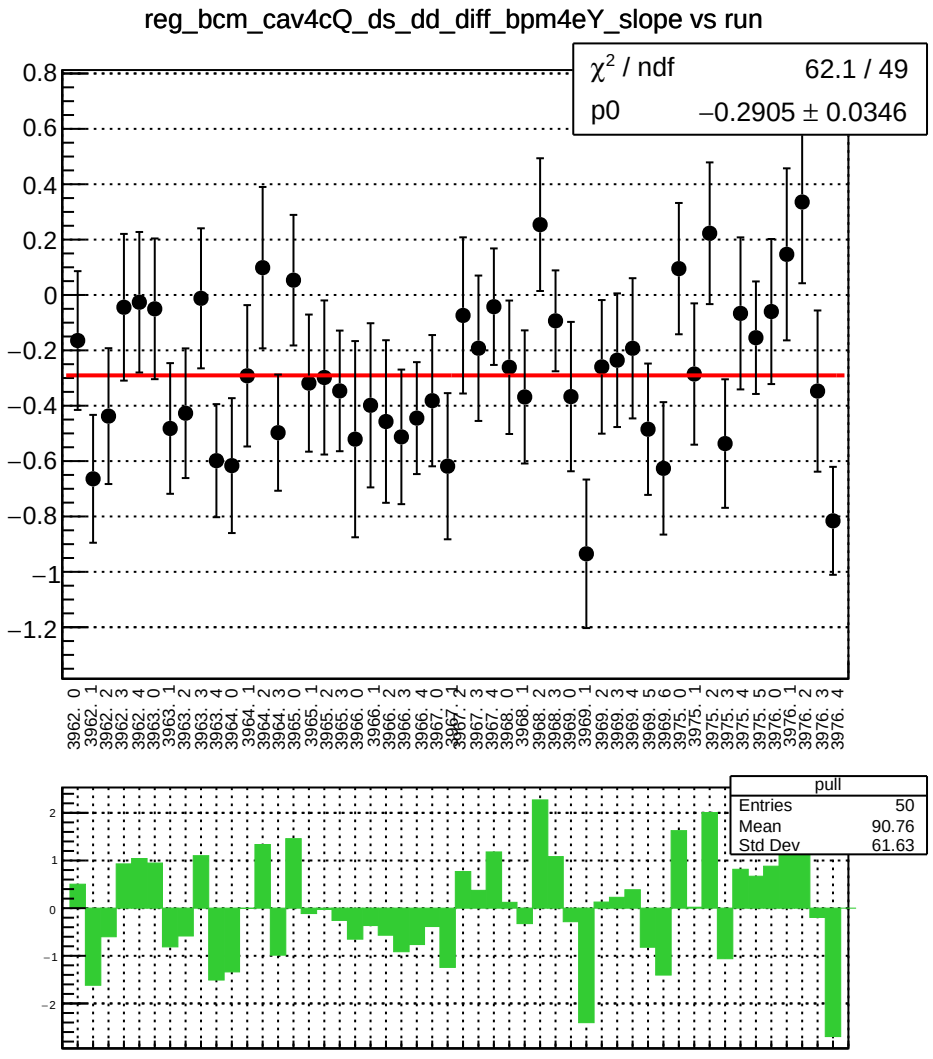

pull1D
Entries 50
Mean 0.05995
Std Dev 1.205

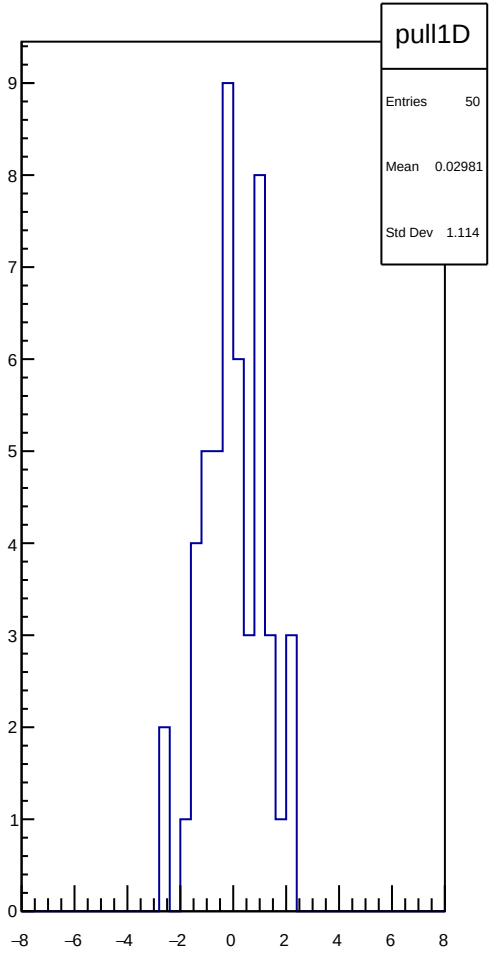

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.17 / 49
p0 0.2388 ± 0.02068
pull
Entries 50
Mean 87.34
Std Dev 57.93

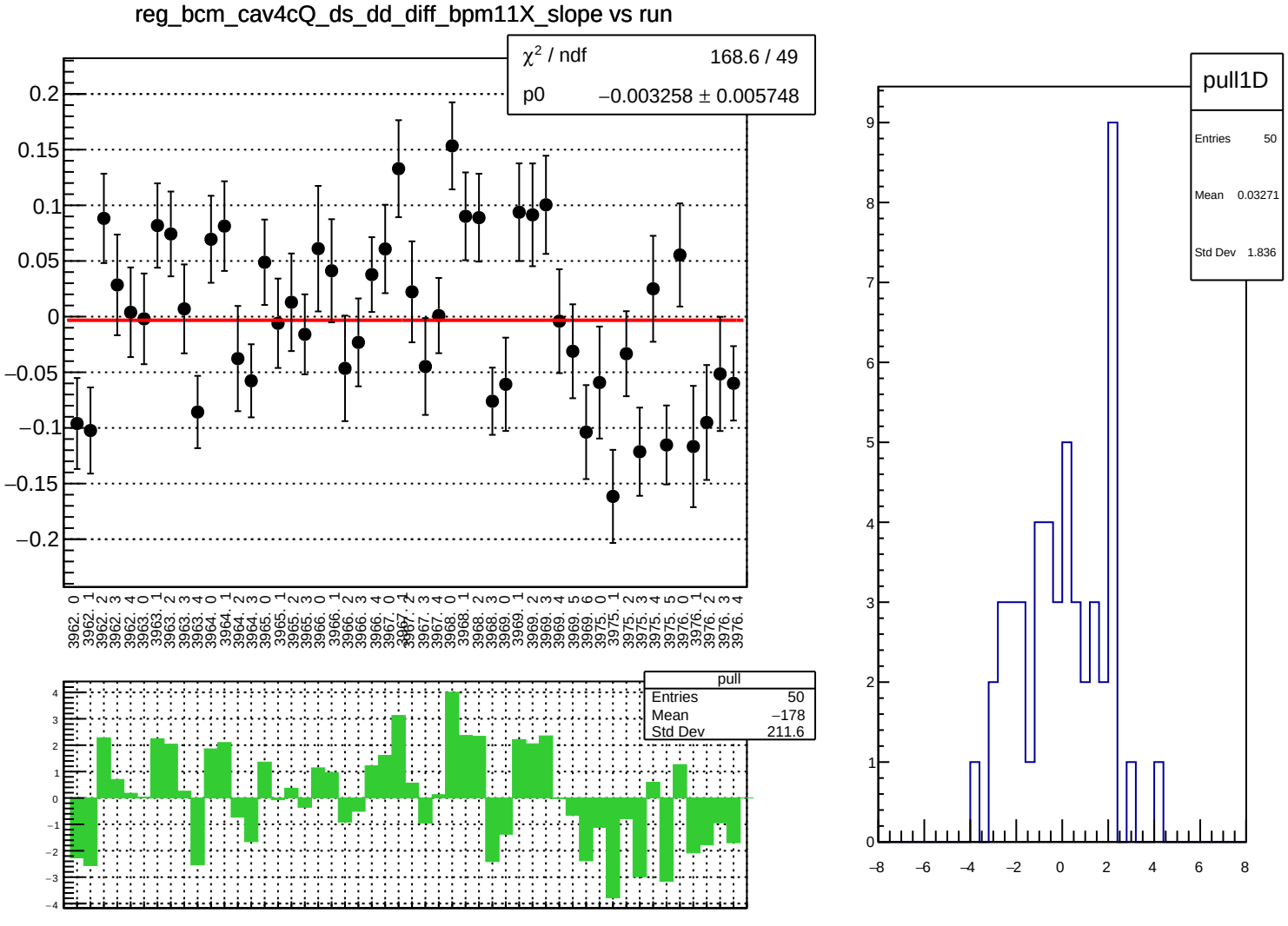

pull1D
Entries 50
Mean −0.02874
Std Dev 1.097

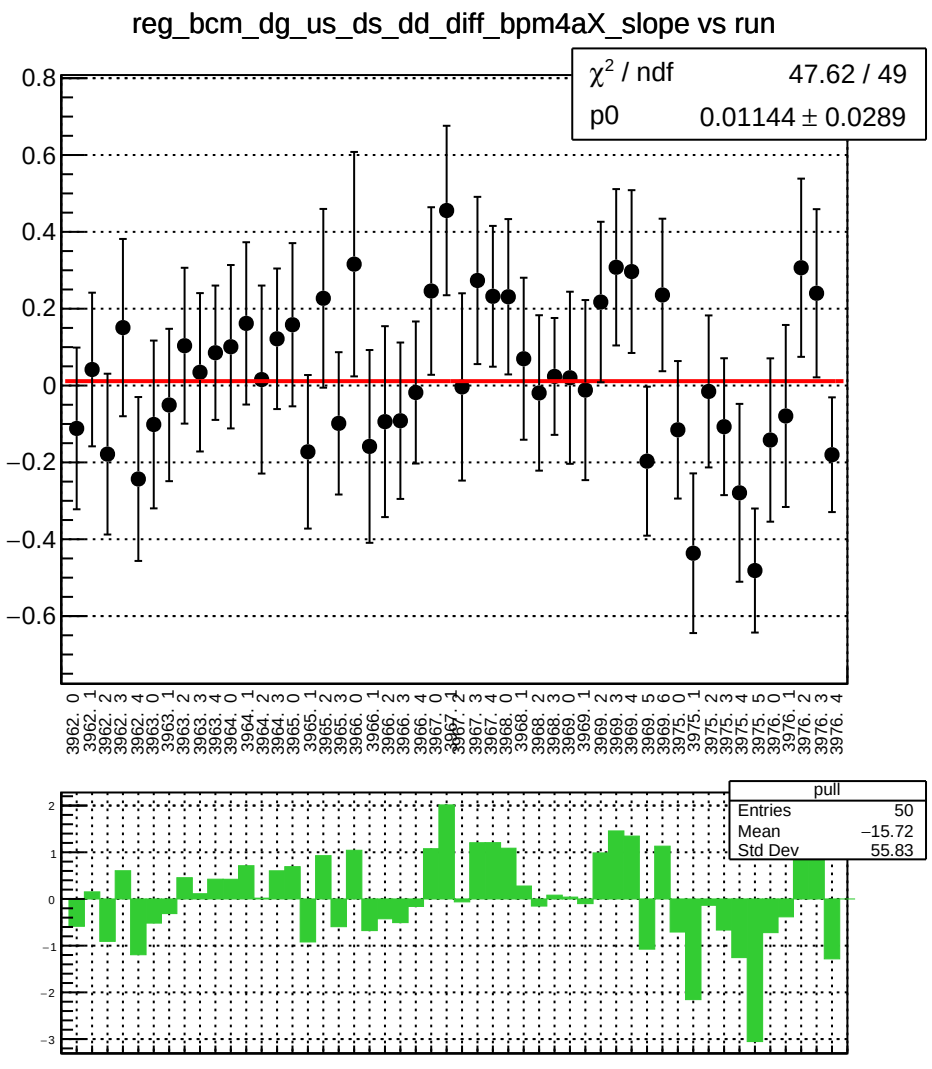

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.63 / 49
p0 0.1332 ± 0.005086
pull
Entries 50
Mean 70.15
Std Dev 55.11

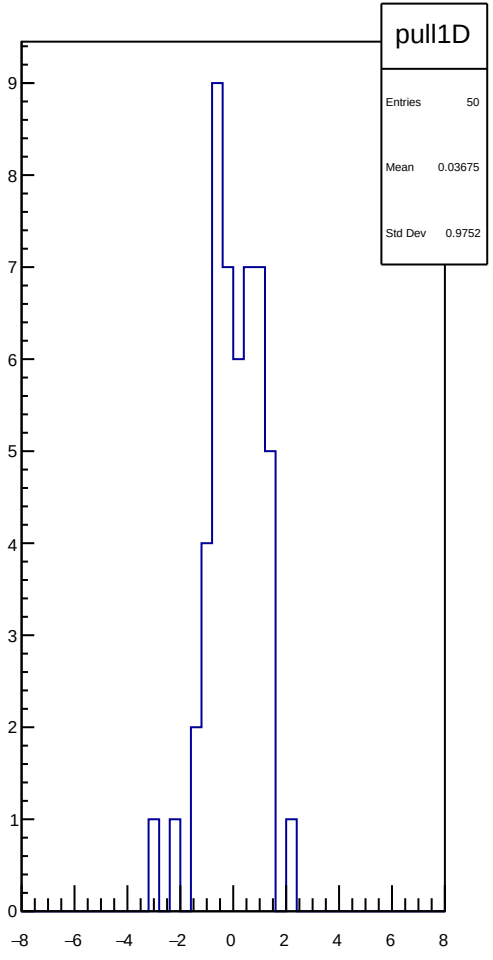

pull1D
Entries 50
Mean −0.06238
Std Dev 1.337

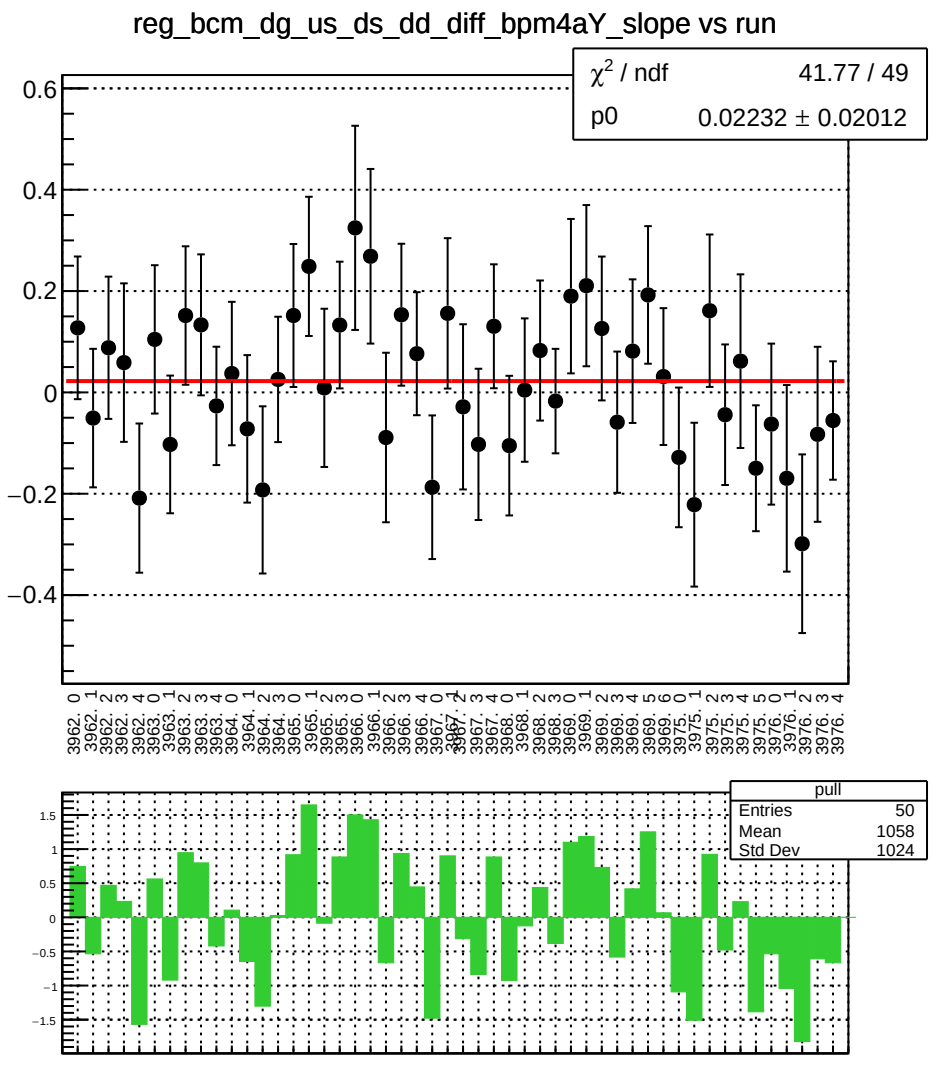

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.1 / 49
p0 −0.2905 ± 0.0346
pull
Entries 50
Mean 90.76
Std Dev 61.63

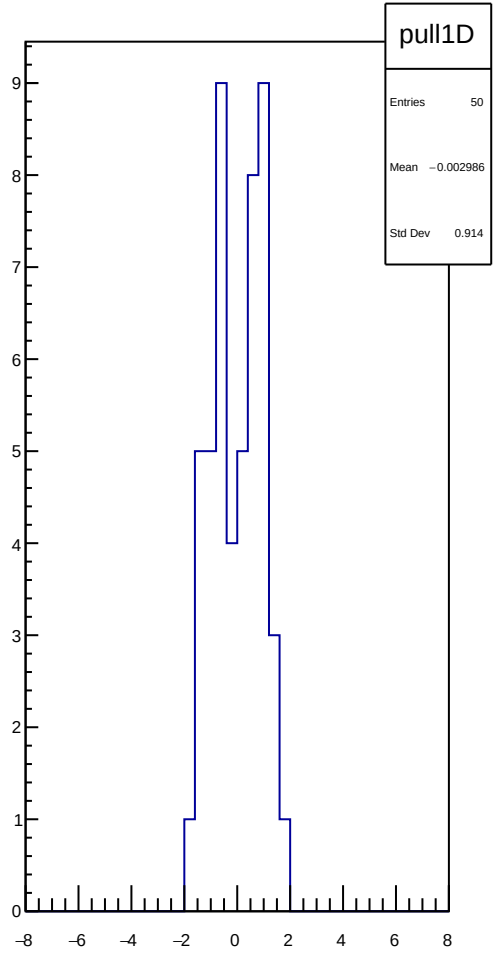

pull1D
Entries 50
Mean 0.02981
Std Dev 1.114

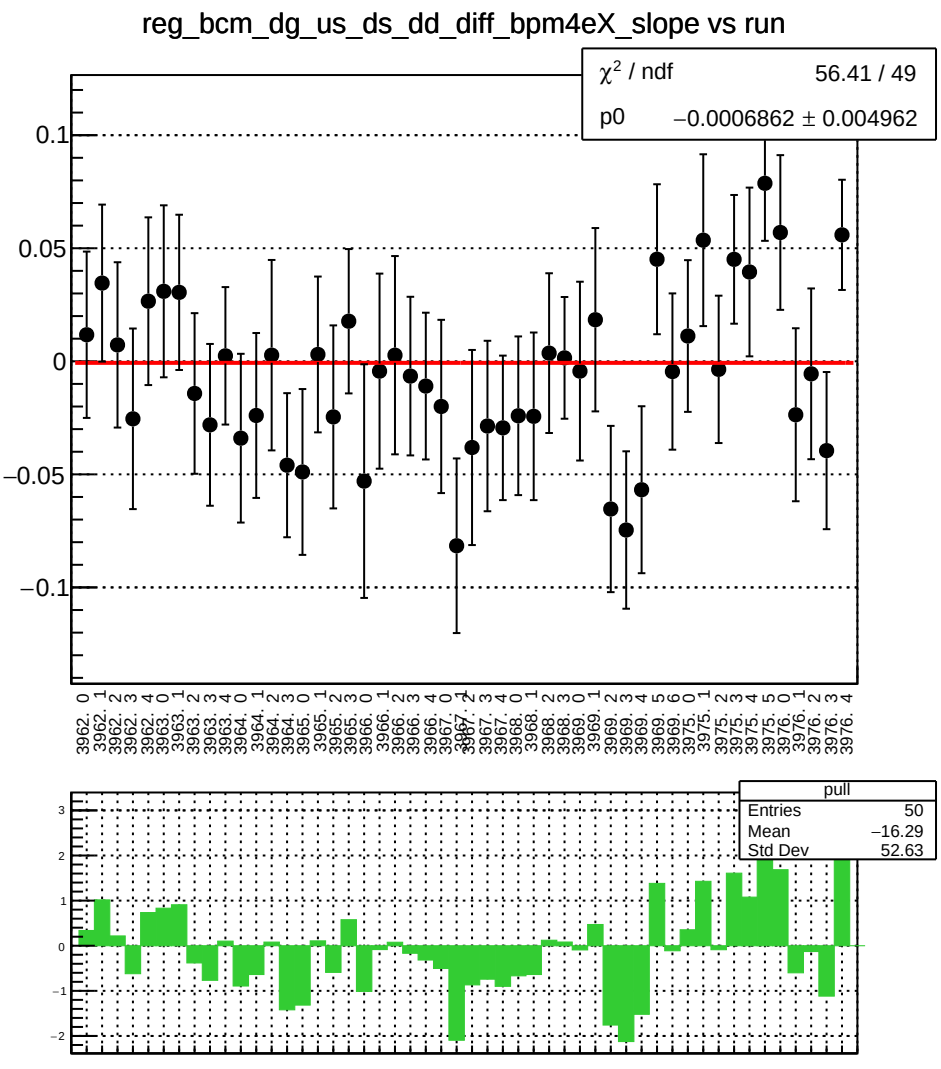

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 168.6 / 49
p0 −0.003258 ± 0.005748
pull
Entries 50
Mean −178
Std Dev 211.6
pull1D
Entries 50
Mean 0.03271
Std Dev 1.836

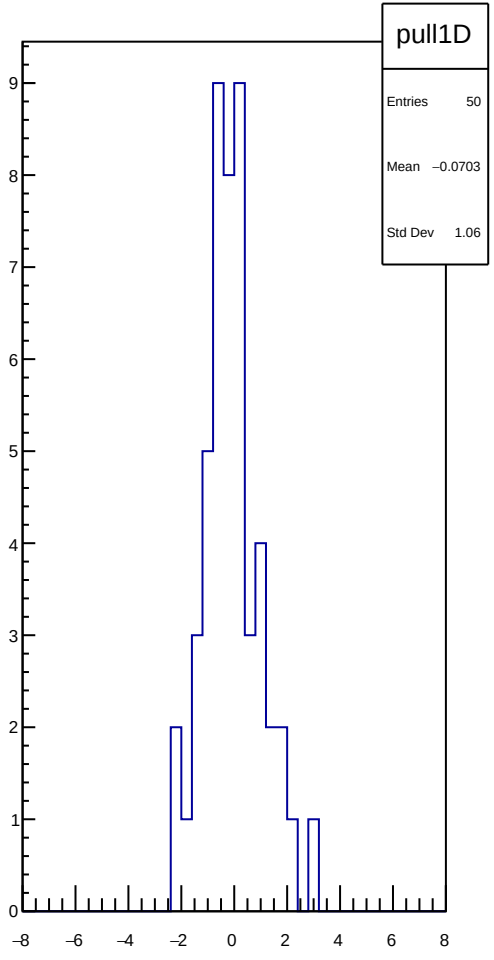

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 47.62 / 49
p0 0.01144 ± 0.0289
pull
Entries 50
Mean −15.72
Std Dev 55.83

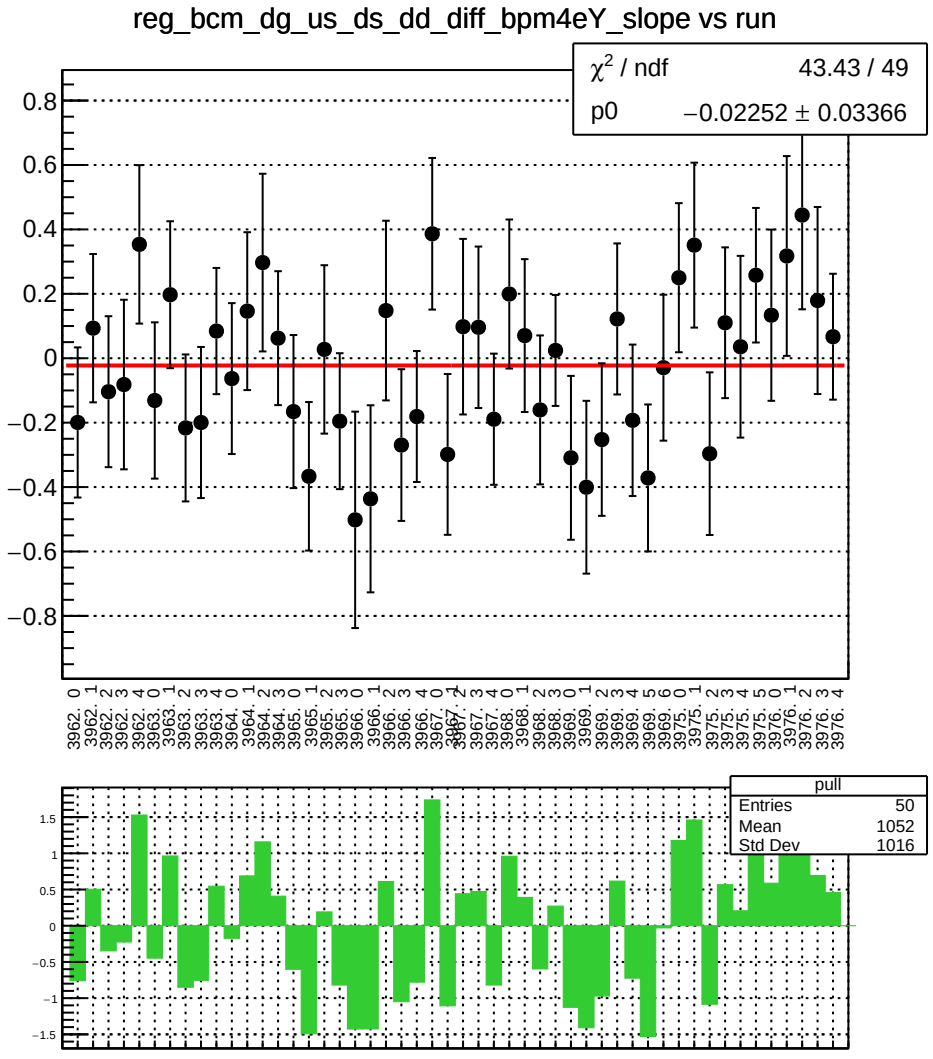

pull1D
Entries 50
Mean 0.03675
Std Dev 0.9752

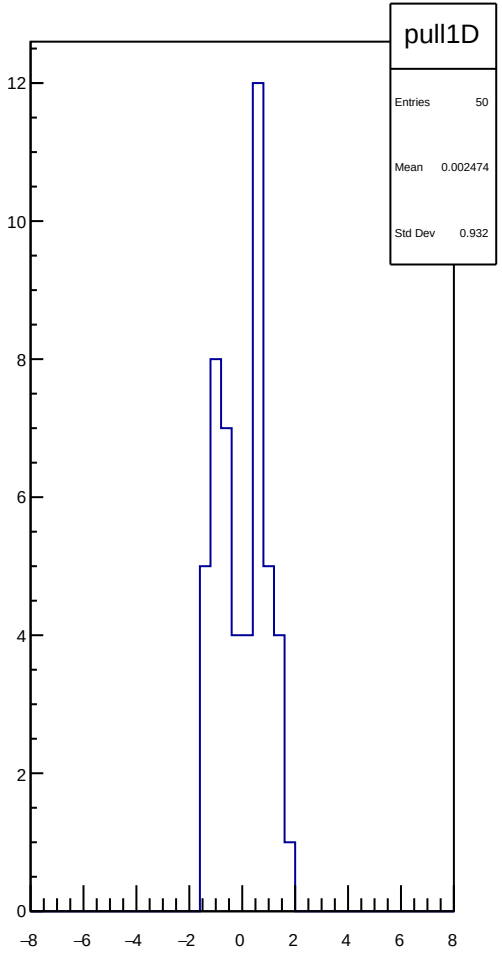

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.77 / 49
p0 0.02232 ± 0.02012
pull
Entries 50
Mean 1058
Std Dev 1024

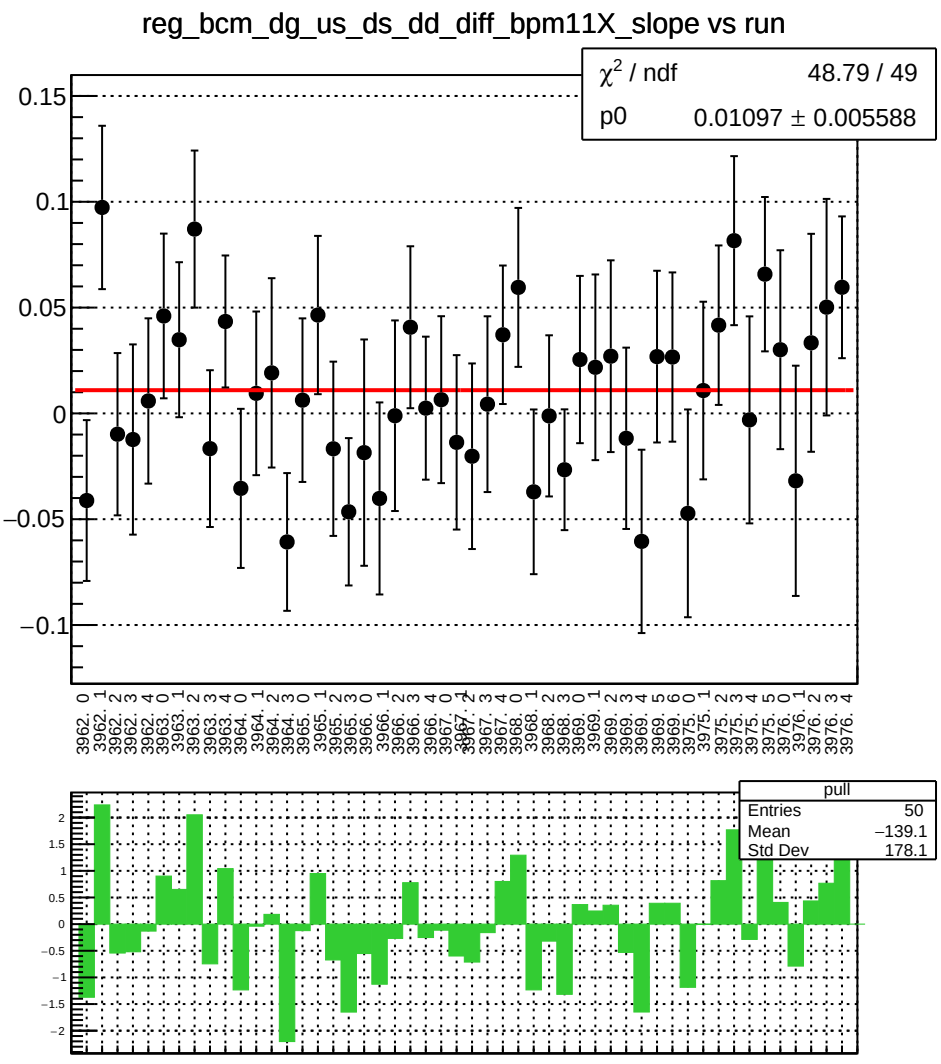

pull1D
Entries 50
Mean −0.002986
Std Dev 0.914

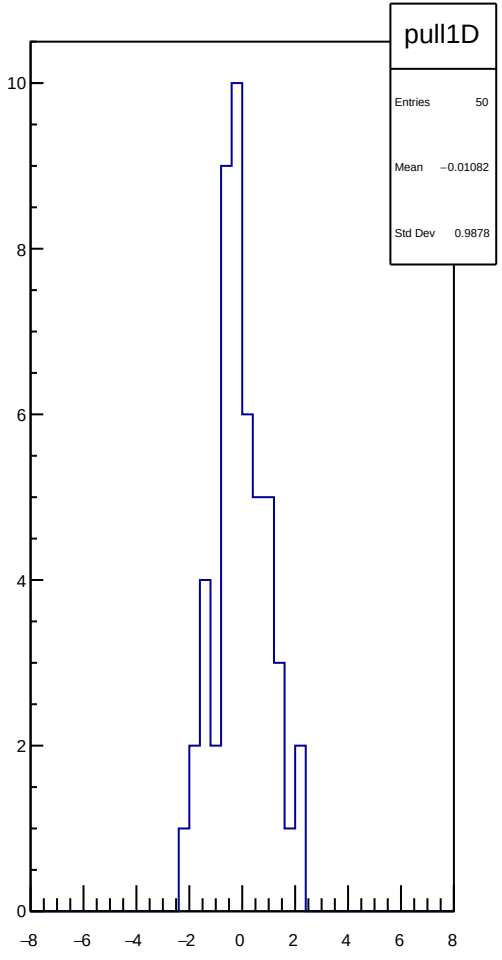

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.41 / 49
p0 −0.0006862 ± 0.004962
0.1
0.05
0
−0.05
−0.1
pull
Entries 50
Mean −16.29
Std Dev 52.63
3
2
1
0
−1
−2

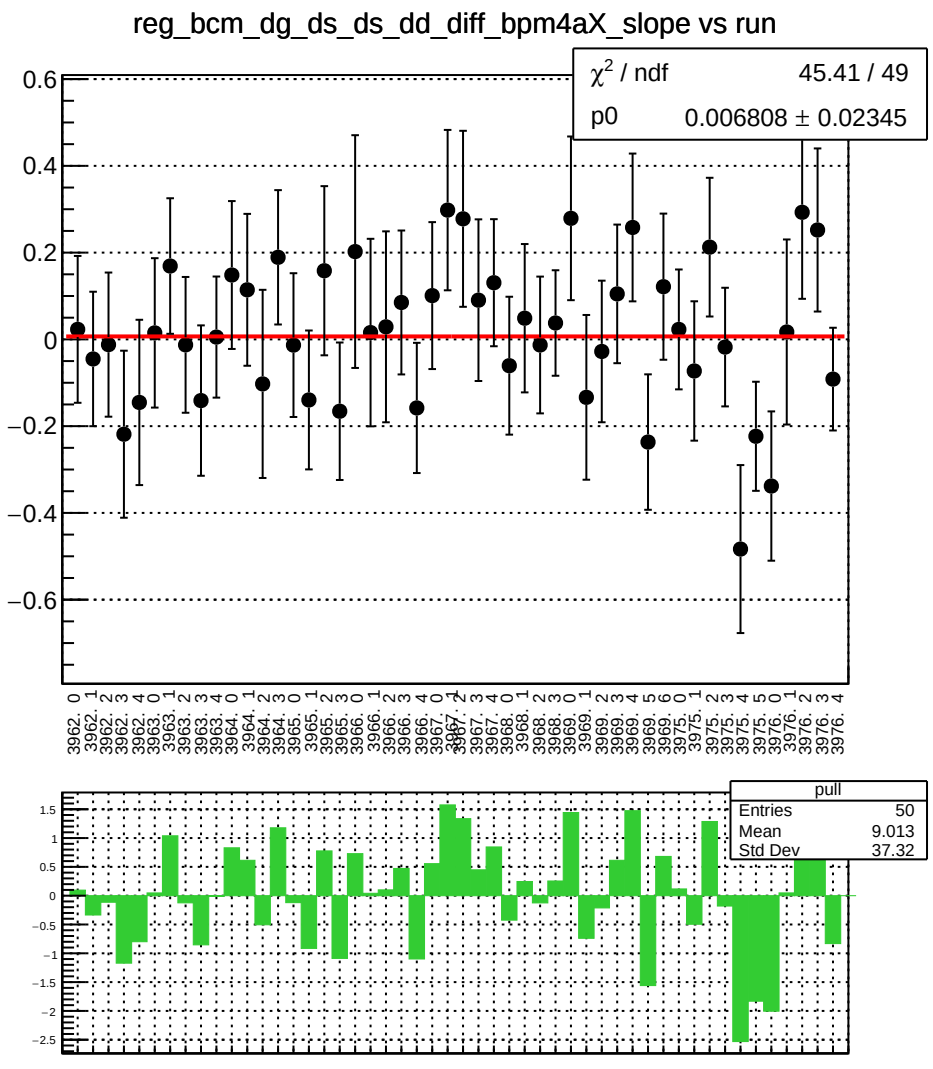

pull1D
Entries 50
Mean −0.0703
Std Dev 1.06
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

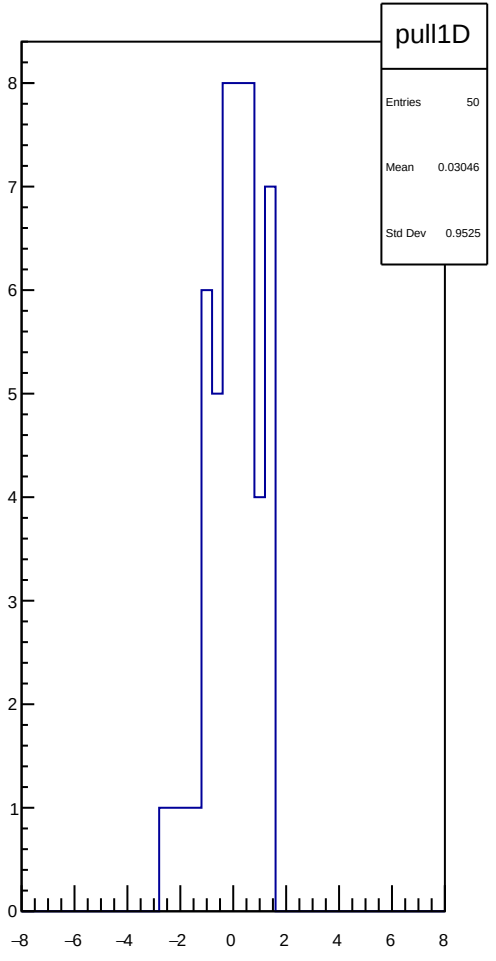

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.43 / 49
p0 −0.02252 ± 0.03366
pull
Entries 50
Mean 1052
Std Dev 1016

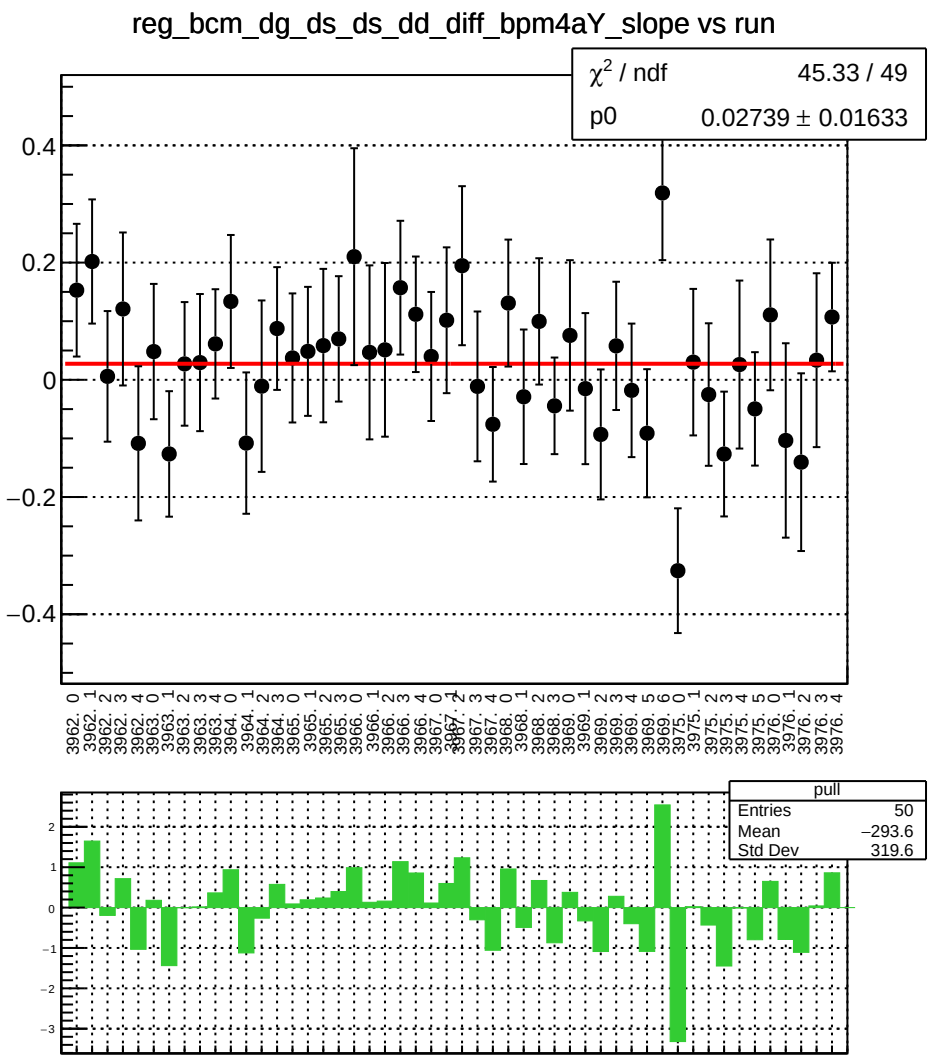

pull1D
Entries 50
Mean 0.002474
Std Dev 0.932

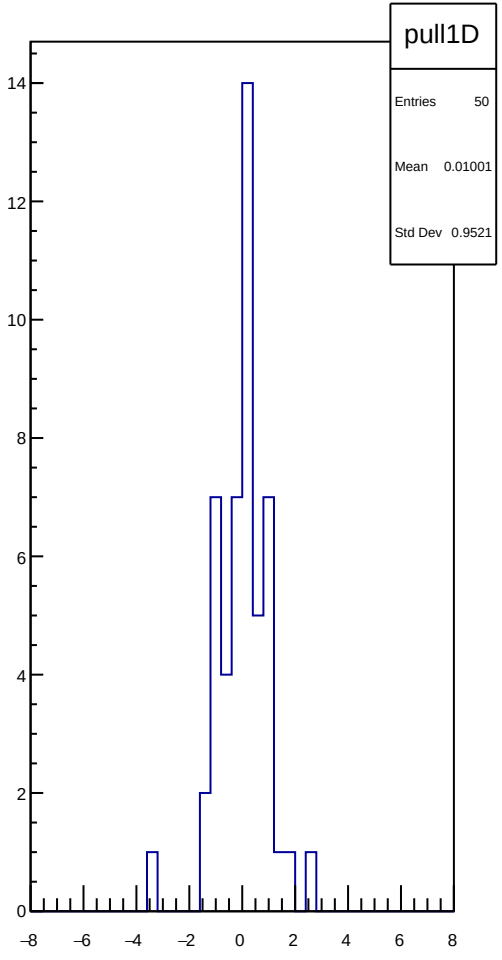

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 48.79 / 49
p0 0.01097 ± 0.005588
pull
Entries 50
Mean −139.1
Std Dev 178.1

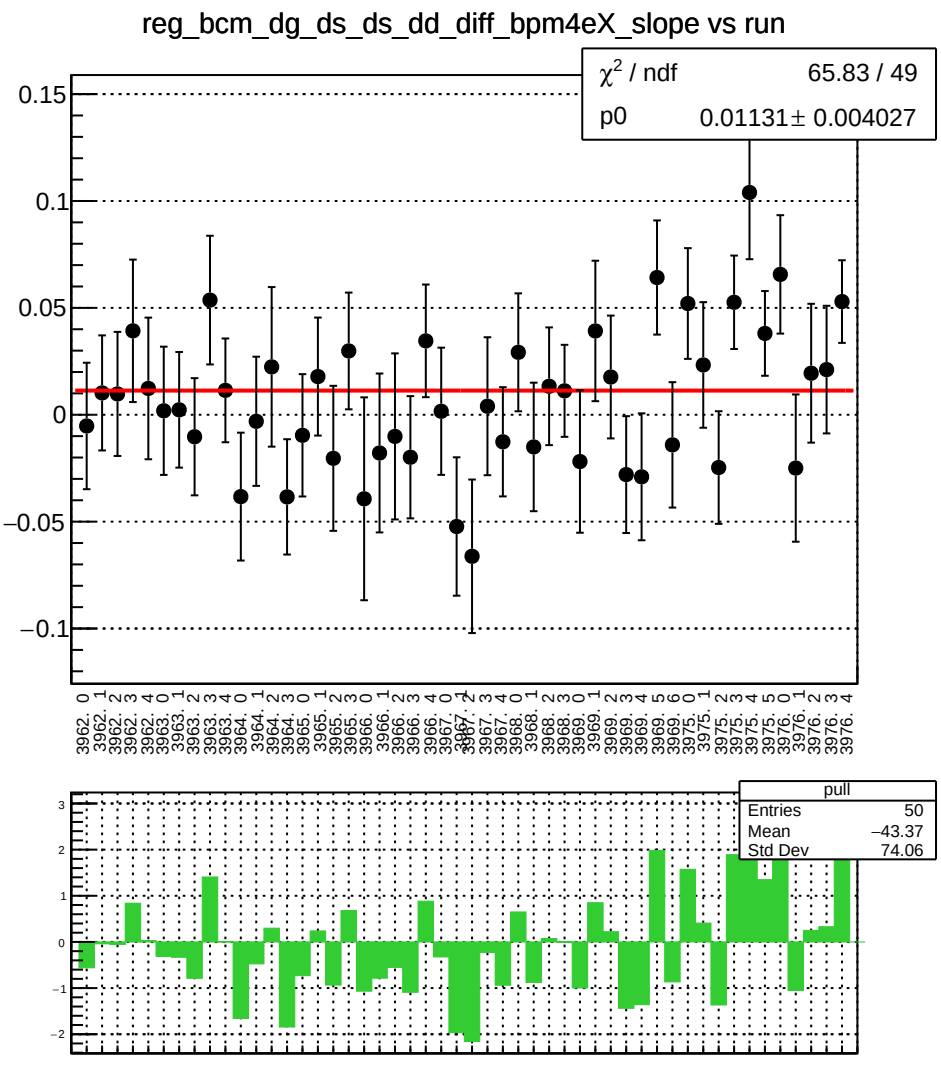

pull1D
Entries 50
Mean −0.01082
Std Dev 0.9878

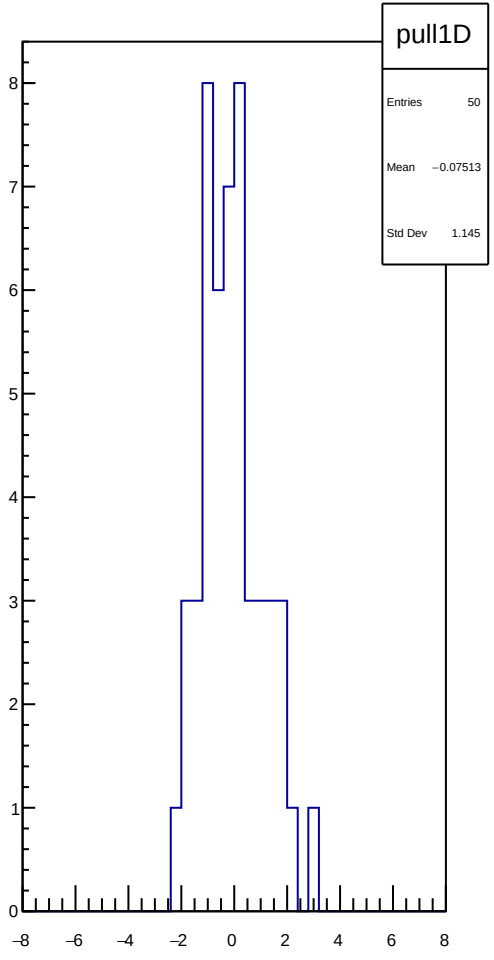

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.41 / 49
p0 0.006808 ± 0.02345
pull
Entries 50
Mean 9.013
Std Dev 37.32

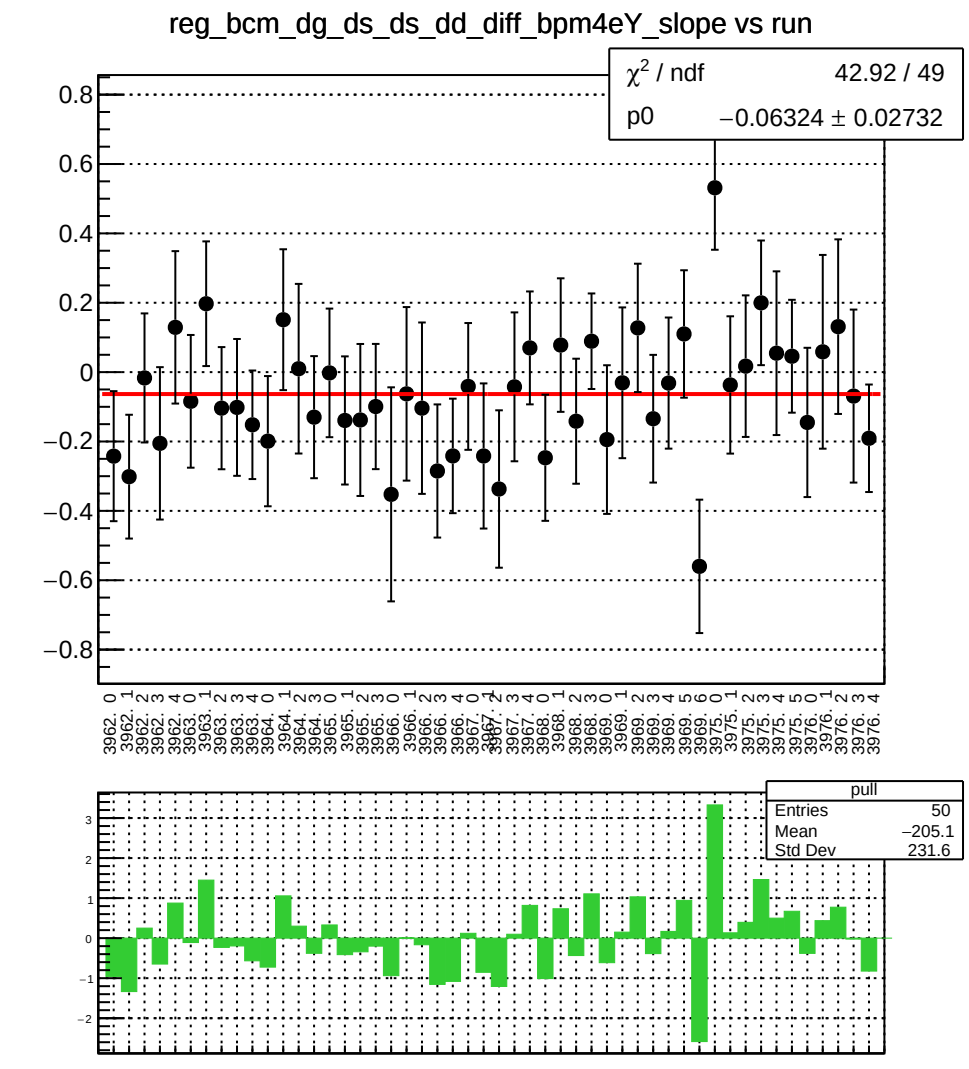

pull1D
Entries 50
Mean 0.03046
Std Dev 0.9525

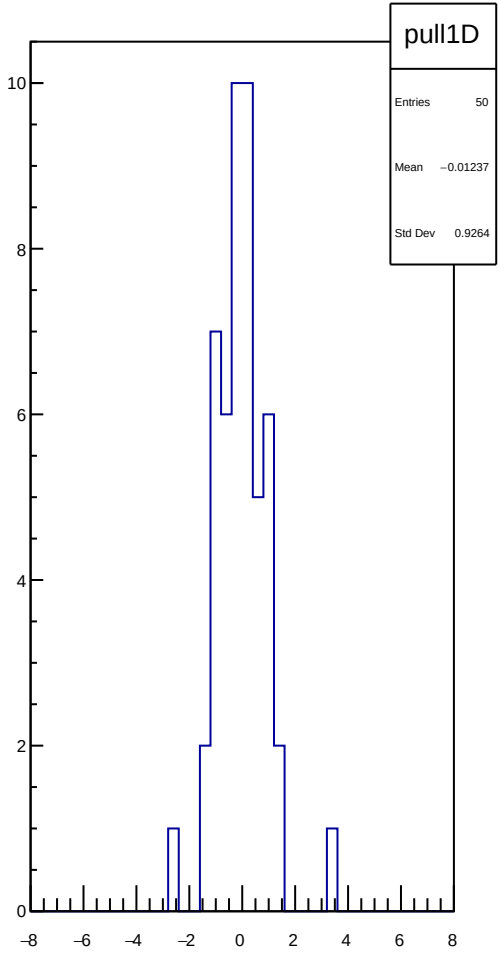

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.33 / 49
p0 0.02739 ± 0.01633
0.4
0.2
0
−0.2
−0.4
pull
Entries 50
Mean −293.6
Std Dev 319.6
2
1
0
−1
−2
−3

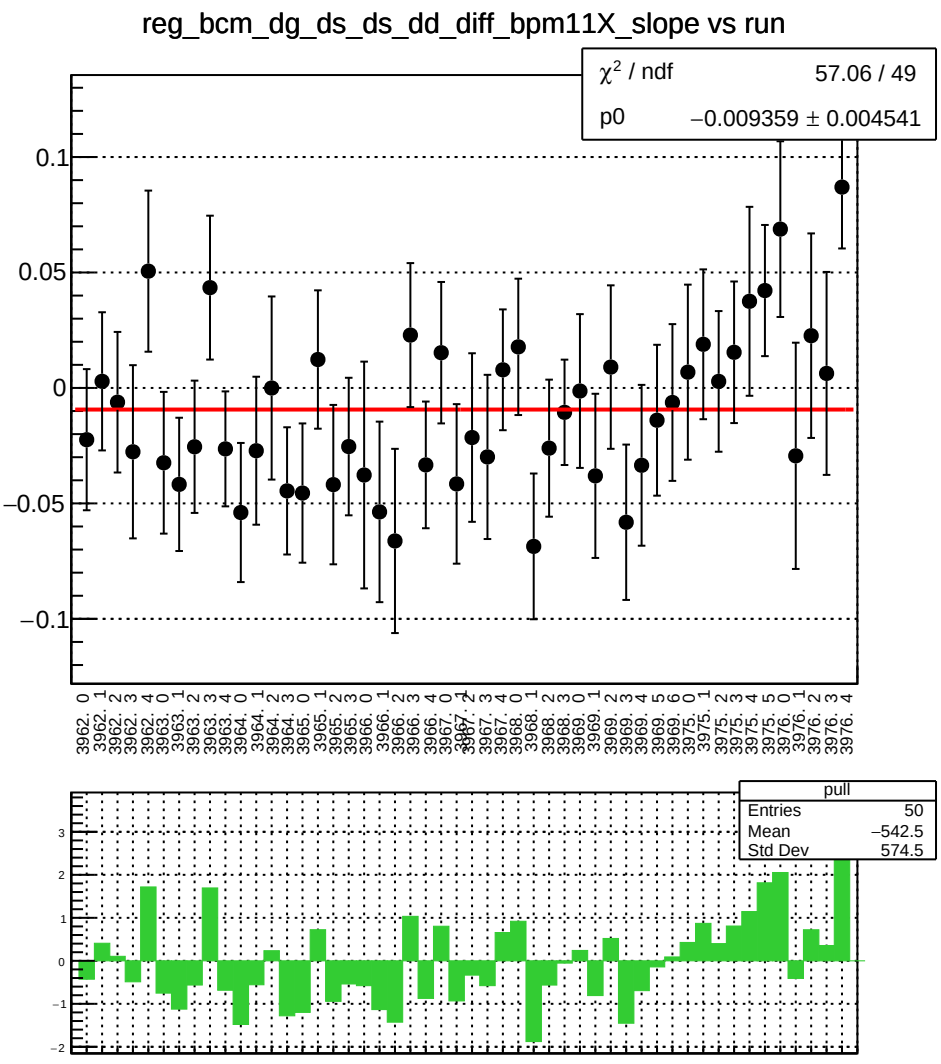

pull1D
Entries 50
Mean 0.01001
Std Dev 0.9521
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

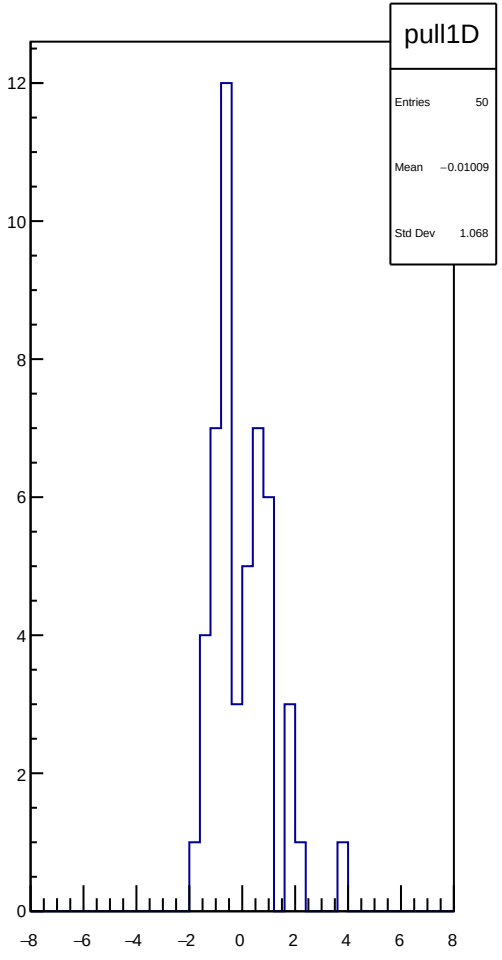

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.83 / 49
p0 0.01131± 0.004027
pull
Entries 50
Mean −43.37
Std Dev 74.06

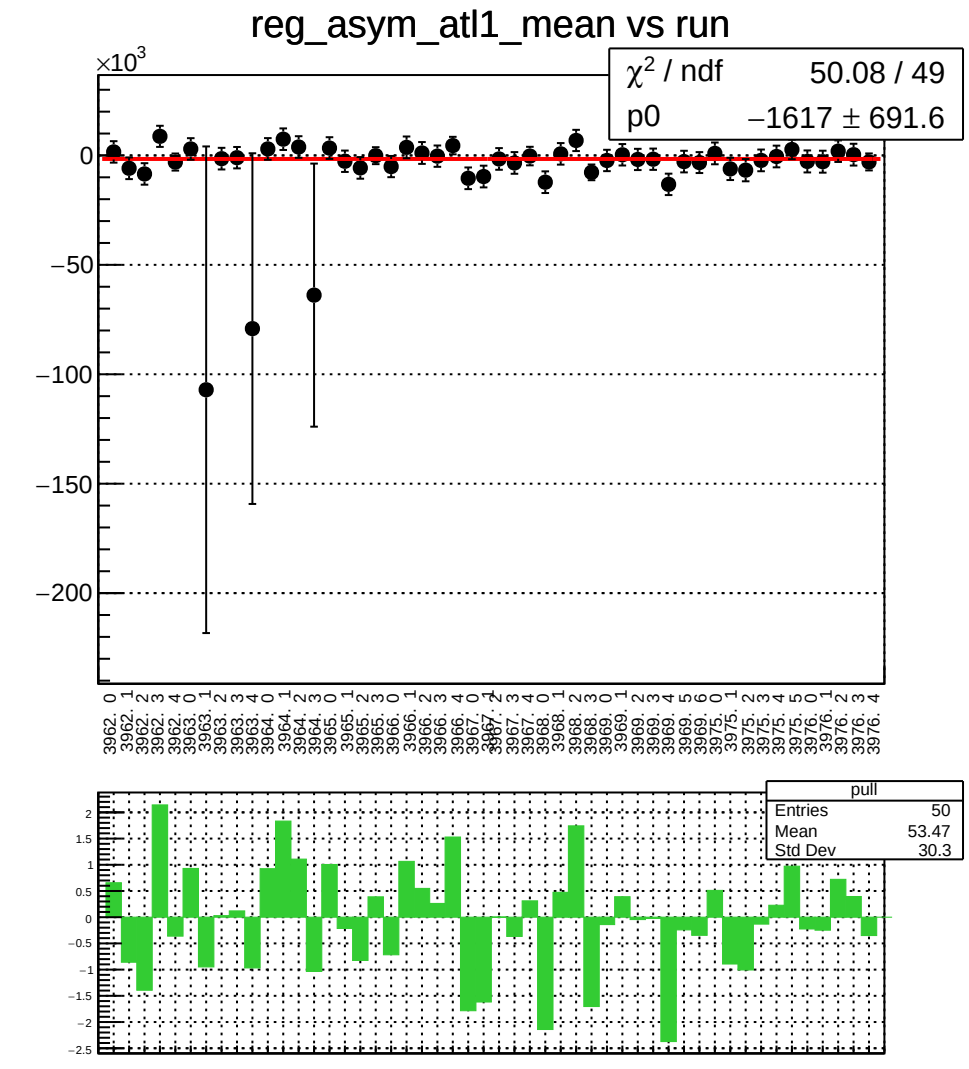

pull1D
Entries 50
Mean −0.07513
Std Dev 1.145

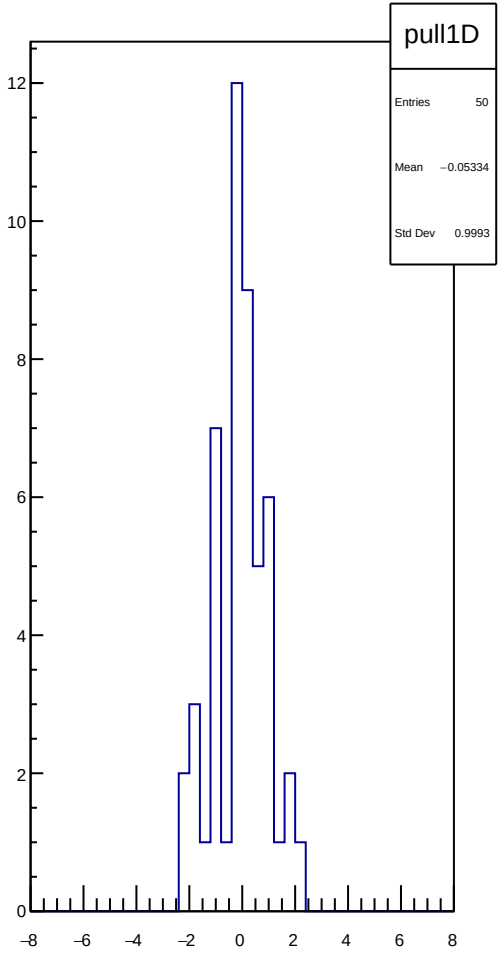

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.92 / 49
p0 −0.06324 ± 0.02732
pull
Entries 50
Mean −205.1
Std Dev 231.6

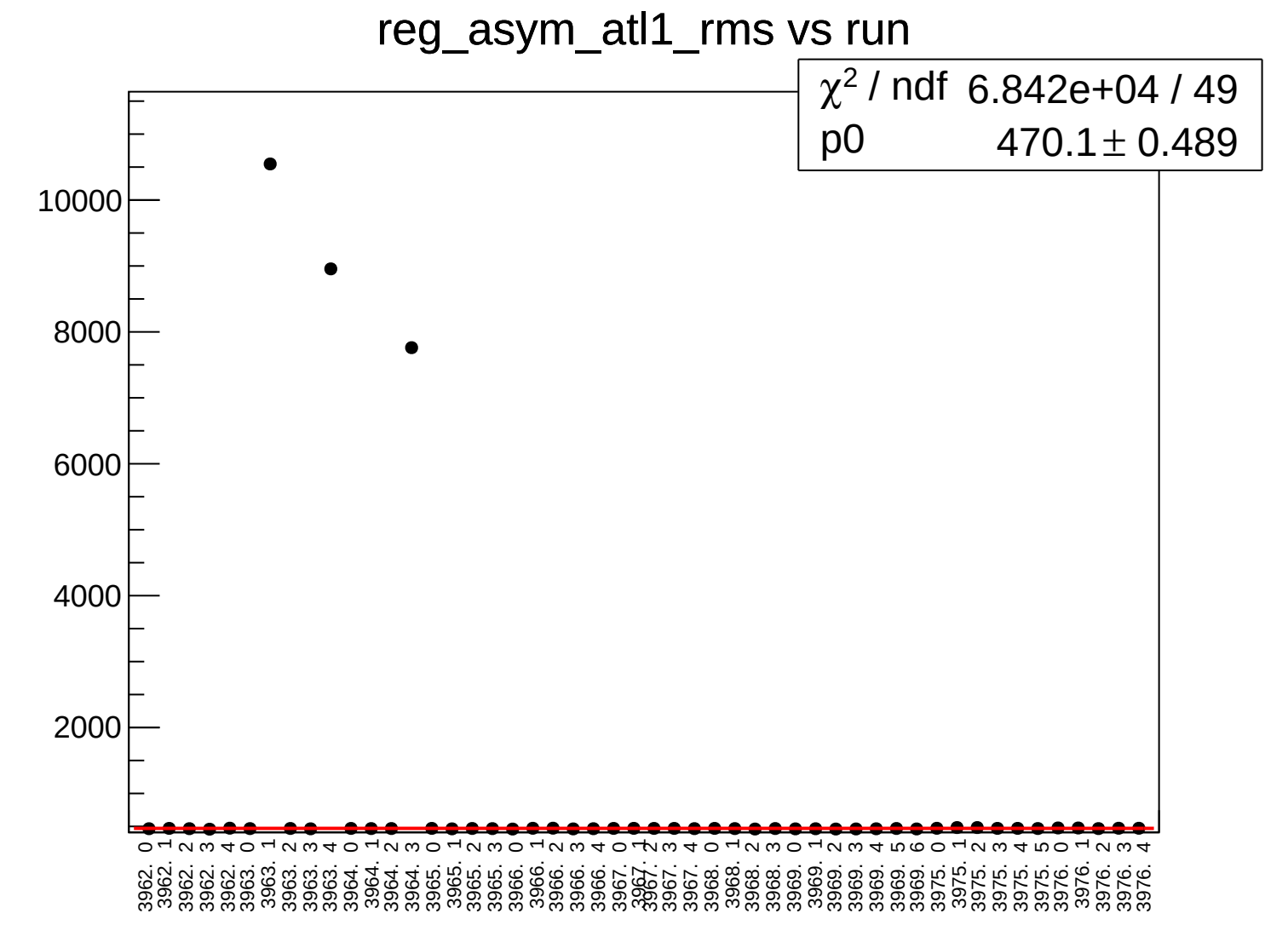

pull1D
Entries 50
Mean −0.01237
Std Dev 0.9264

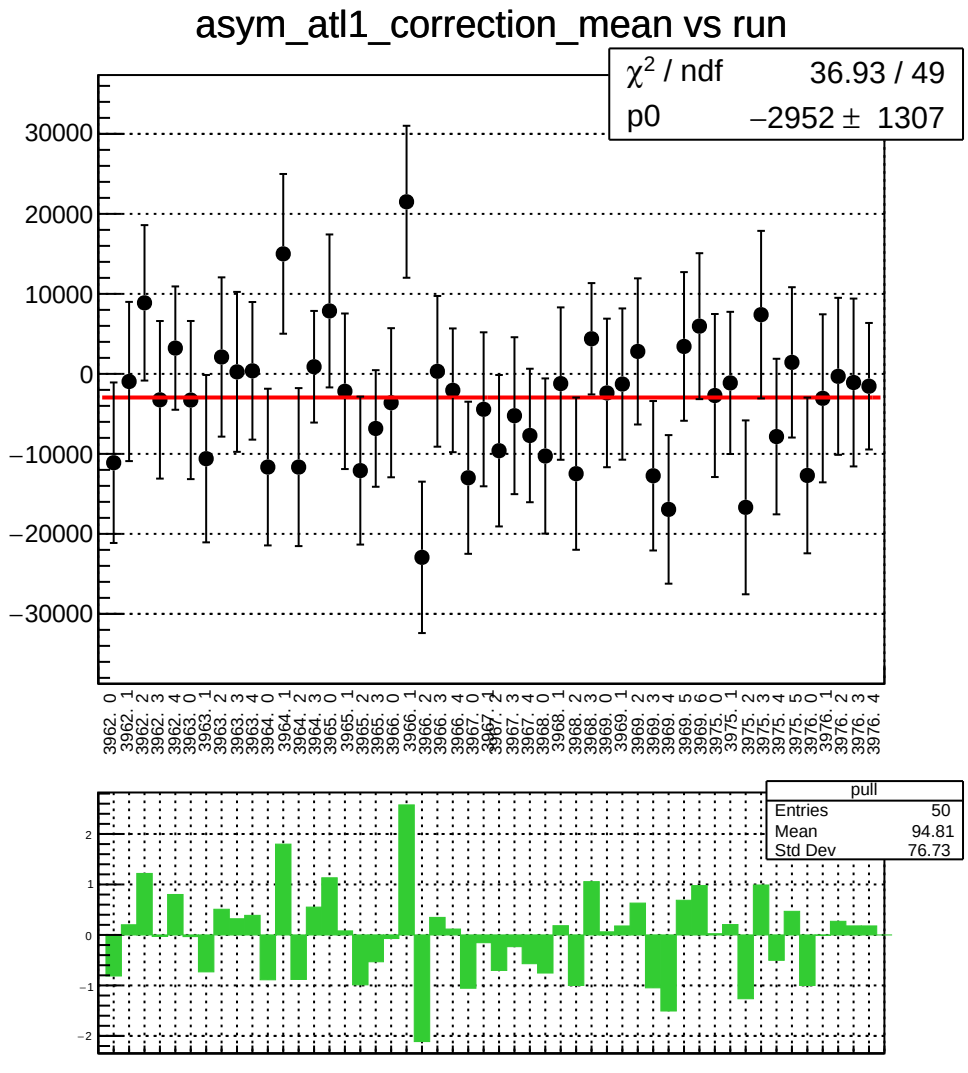

reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 57.06 / 49
p0 −0.009359 ± 0.004541
pull
Entries 50
Mean −542.5
Std Dev 574.5

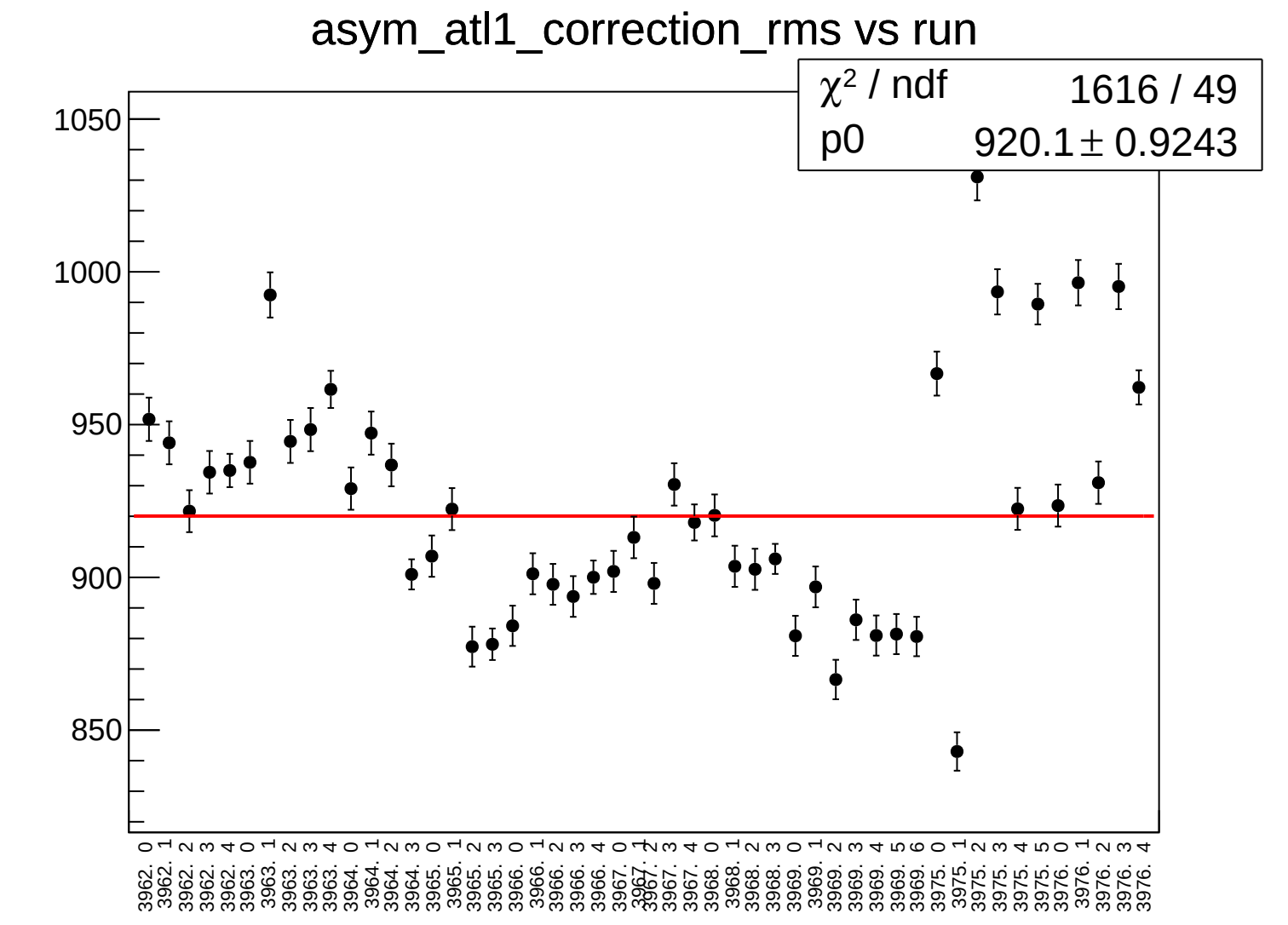

pull1D
Entries 50
Mean −0.01009
Std Dev 1.068

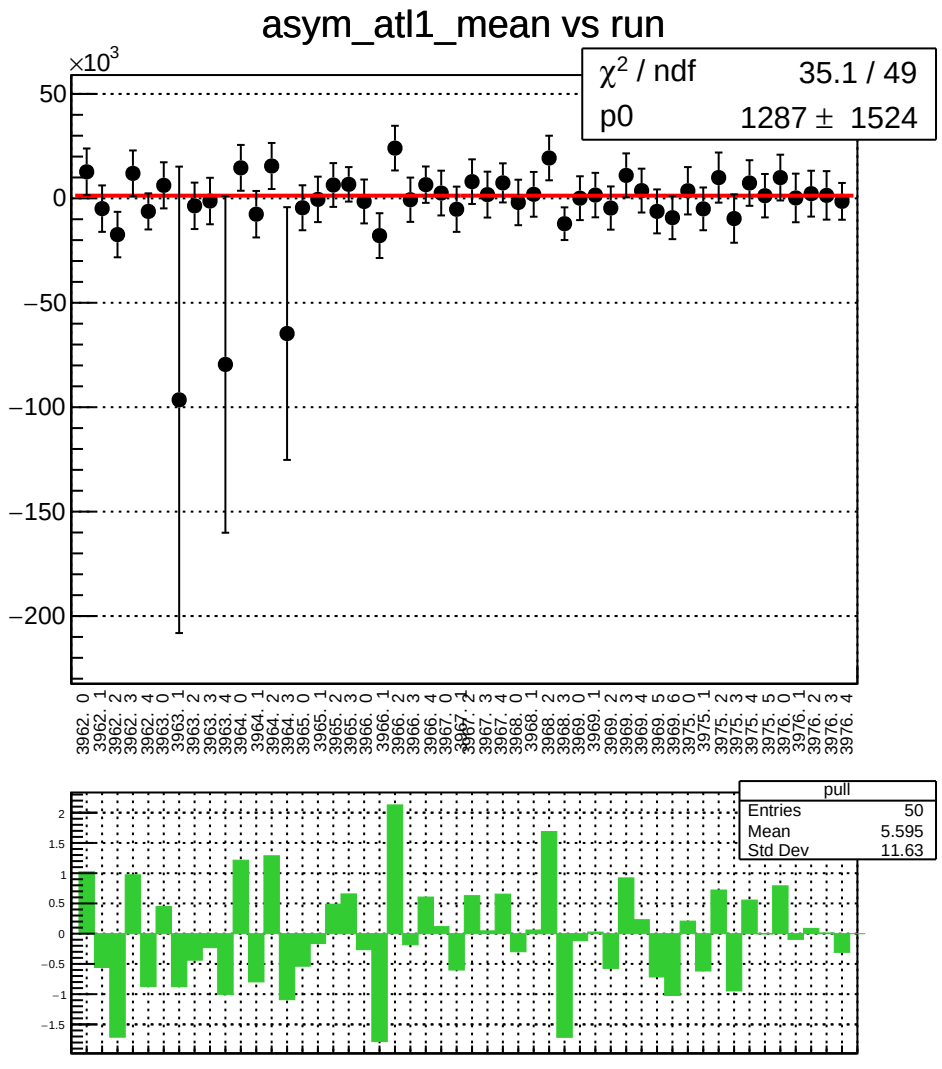

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 50.08 / 49
p0 −1617 ± 691.6
pull
Entries 50
Mean 53.47
Std Dev 30.3

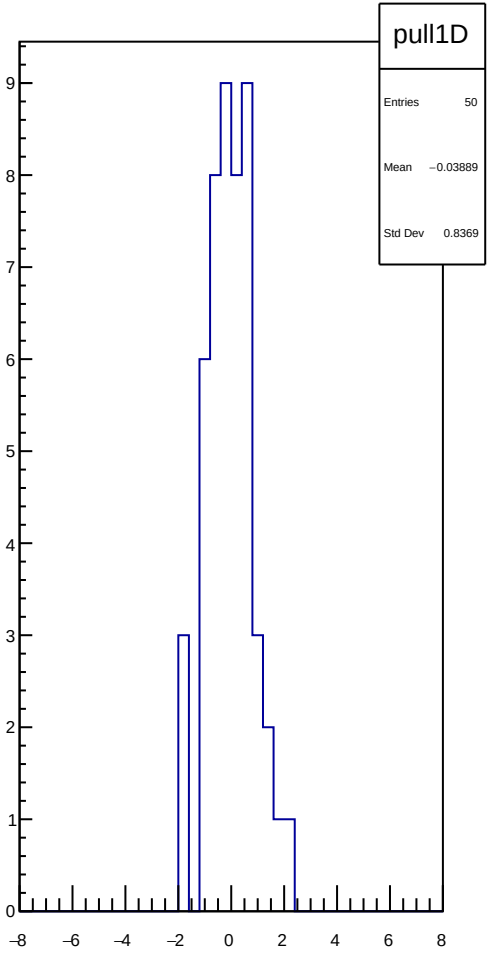

pull1D
Entries 50
Mean −0.05334
Std Dev 0.9993

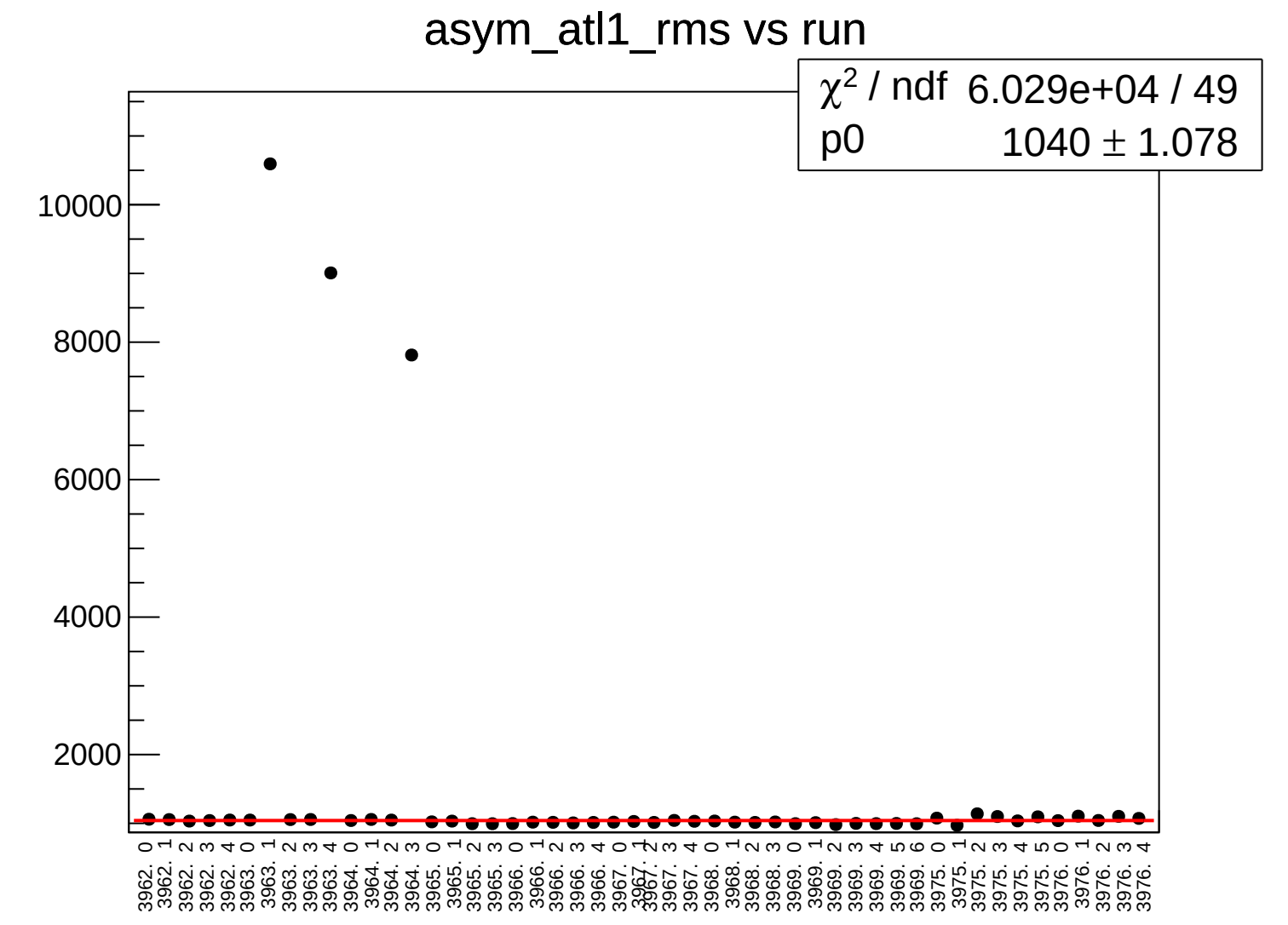

reg_asym_atl1_rms vs run
χ² / ndf 6.842e+04 / 49
p0 470.1 ± 0.489
10000
8000
6000
4000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

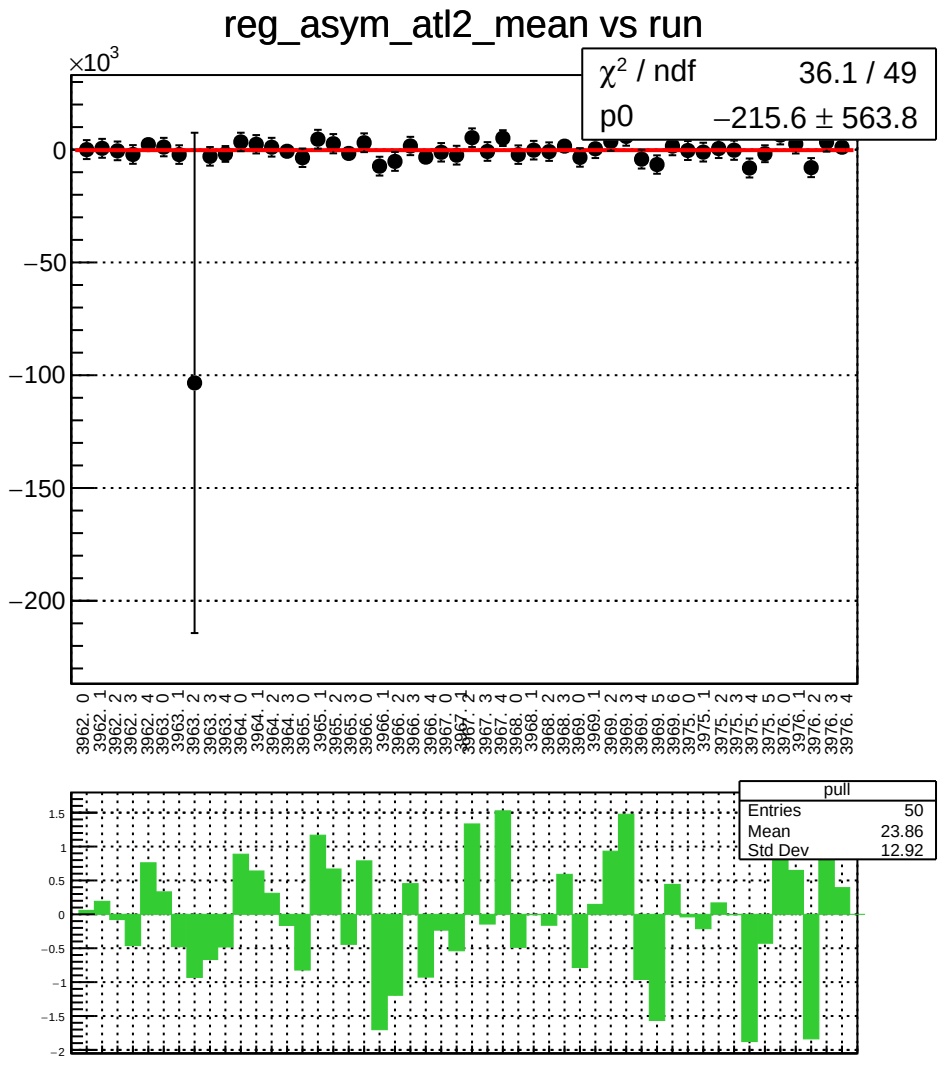

asym_atl1_correction_mean vs run
χ² / ndf 36.93 / 49
p0 −2952 ± 1307
30000
20000
10000
0
−10000
−20000
−30000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 94.81
Std Dev 76.73
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.01505
Std Dev 0.8593
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

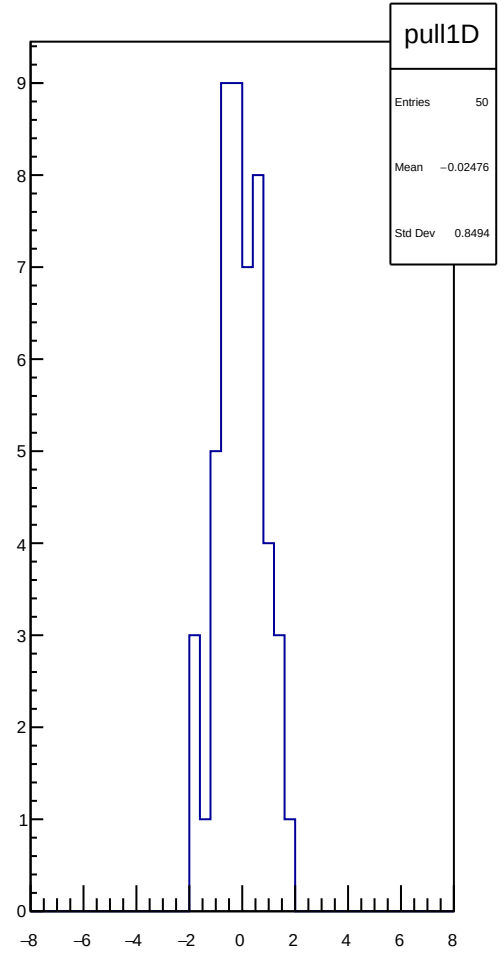

asym_atl1_correction_rms vs run
χ² / ndf 1616 / 49
p0 920.1 ± 0.9243
1050
1000
950
900
850
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

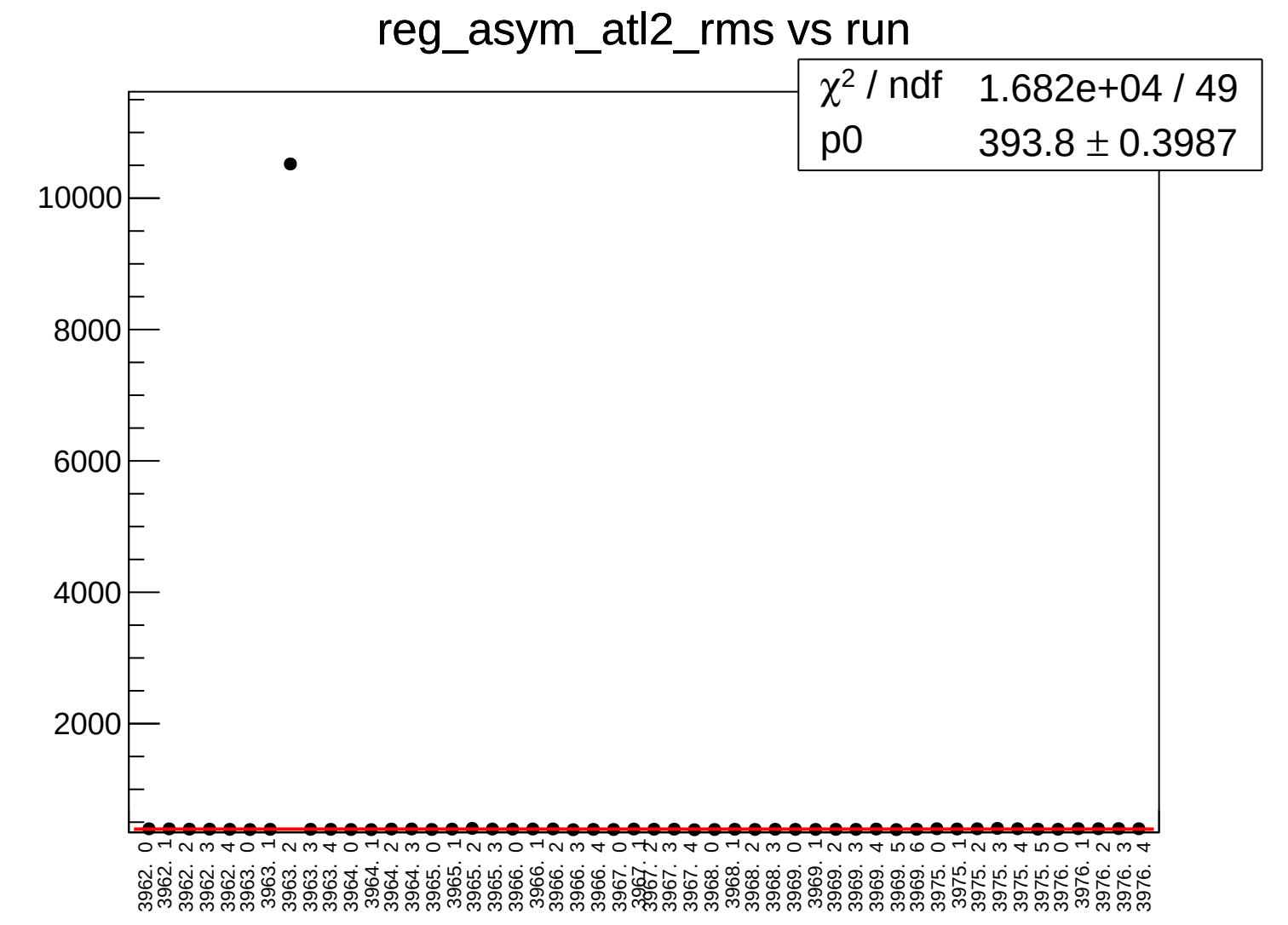

asym_atl1_mean vs run
×10^3
χ² / ndf 35.1 / 49
p0 1287 ± 1524
50
0
−50
−100
−150
−200
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 5.595
Std Dev 11.63
2
1.5
1
0.5
0
−0.5
−1
−1.5

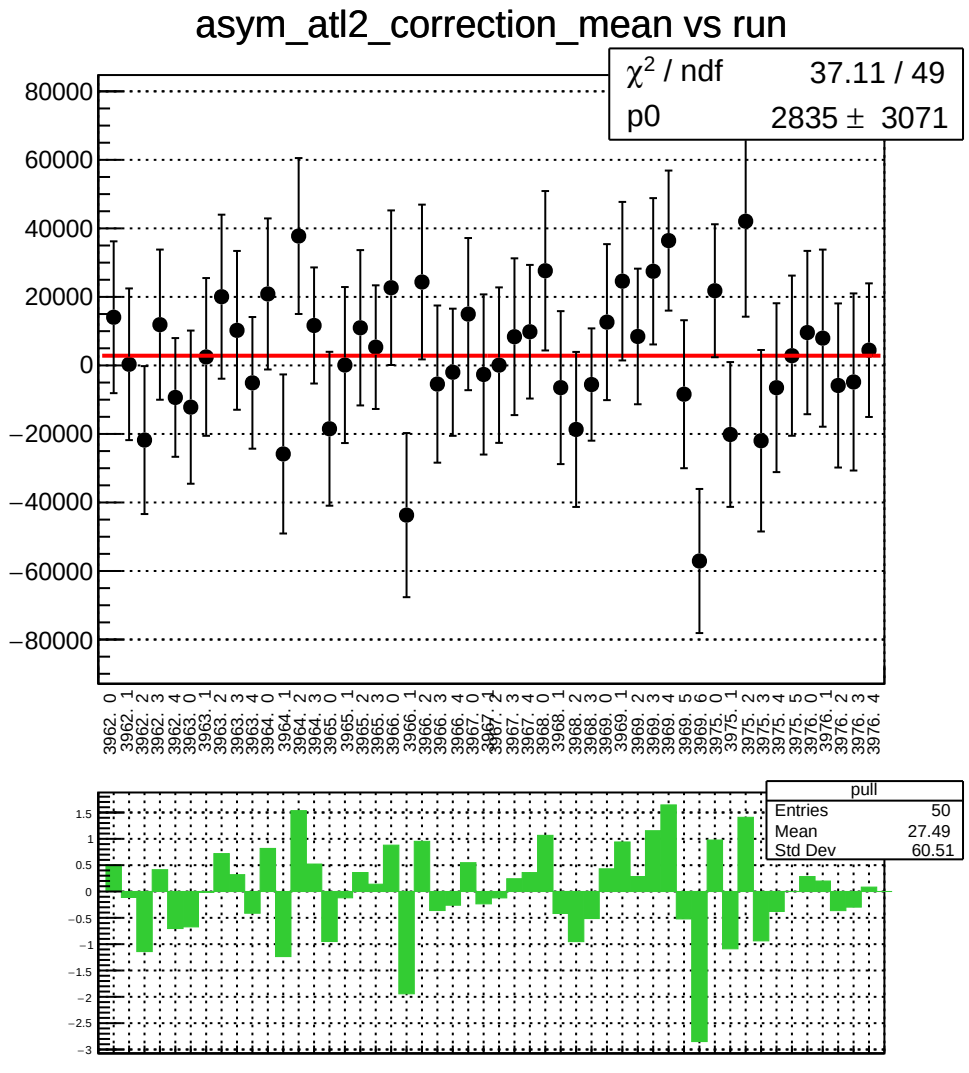

pull1D
Entries 50
Mean −0.03889
Std Dev 0.8369
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

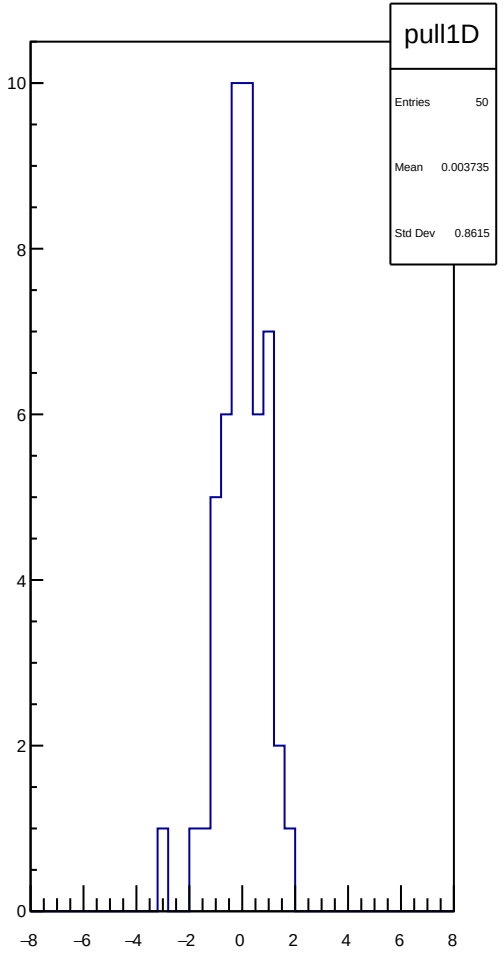

asym_atl1_rms vs run
χ² / ndf 6.029e+04 / 49
p0 1040 ± 1.078
10000
8000
6000
4000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

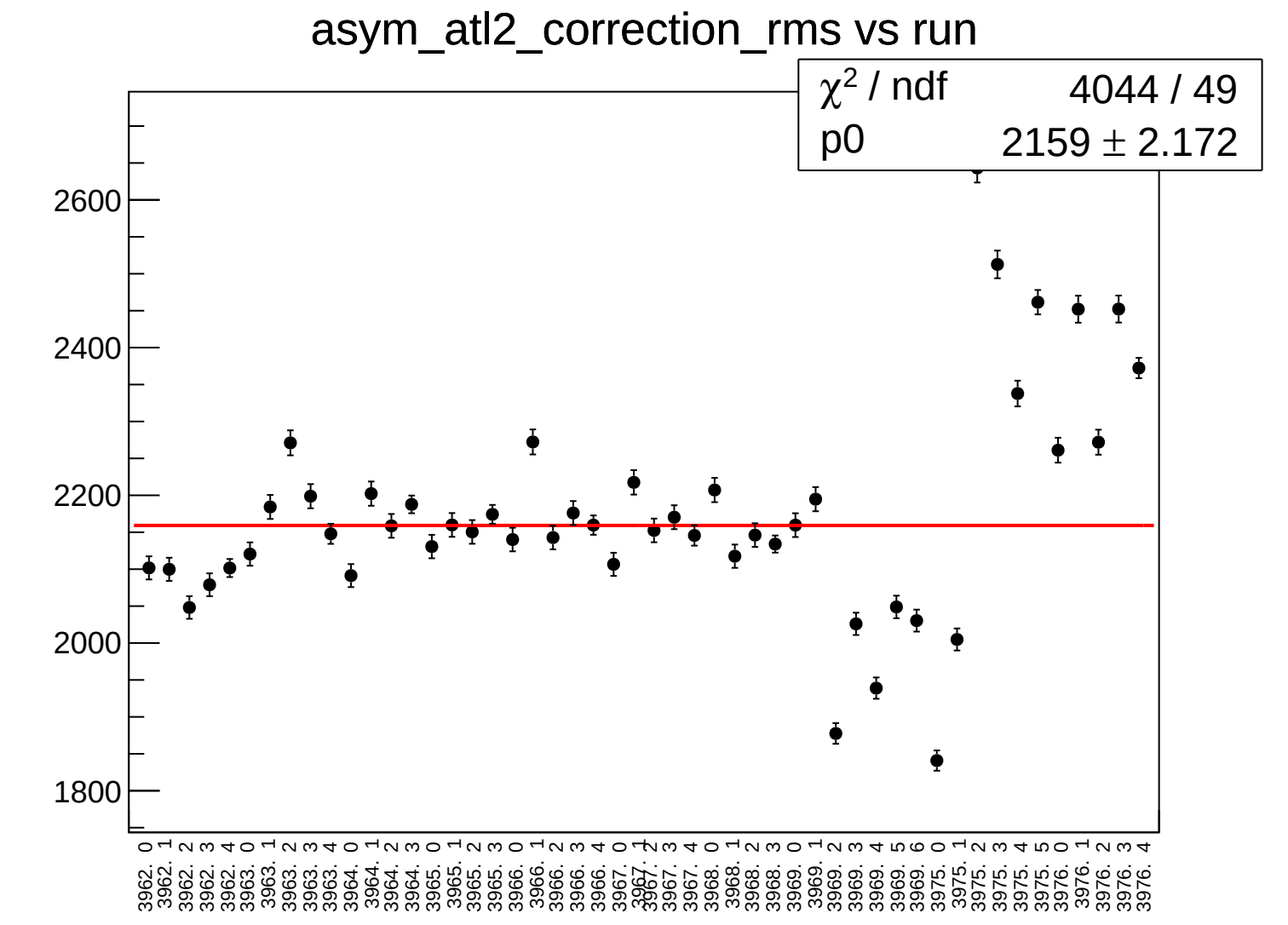

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 36.1 / 49
p0 −215.6 ± 563.8
0
−50
−100
−150
−200
pull
Entries 50
Mean 23.86
Std Dev 12.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2

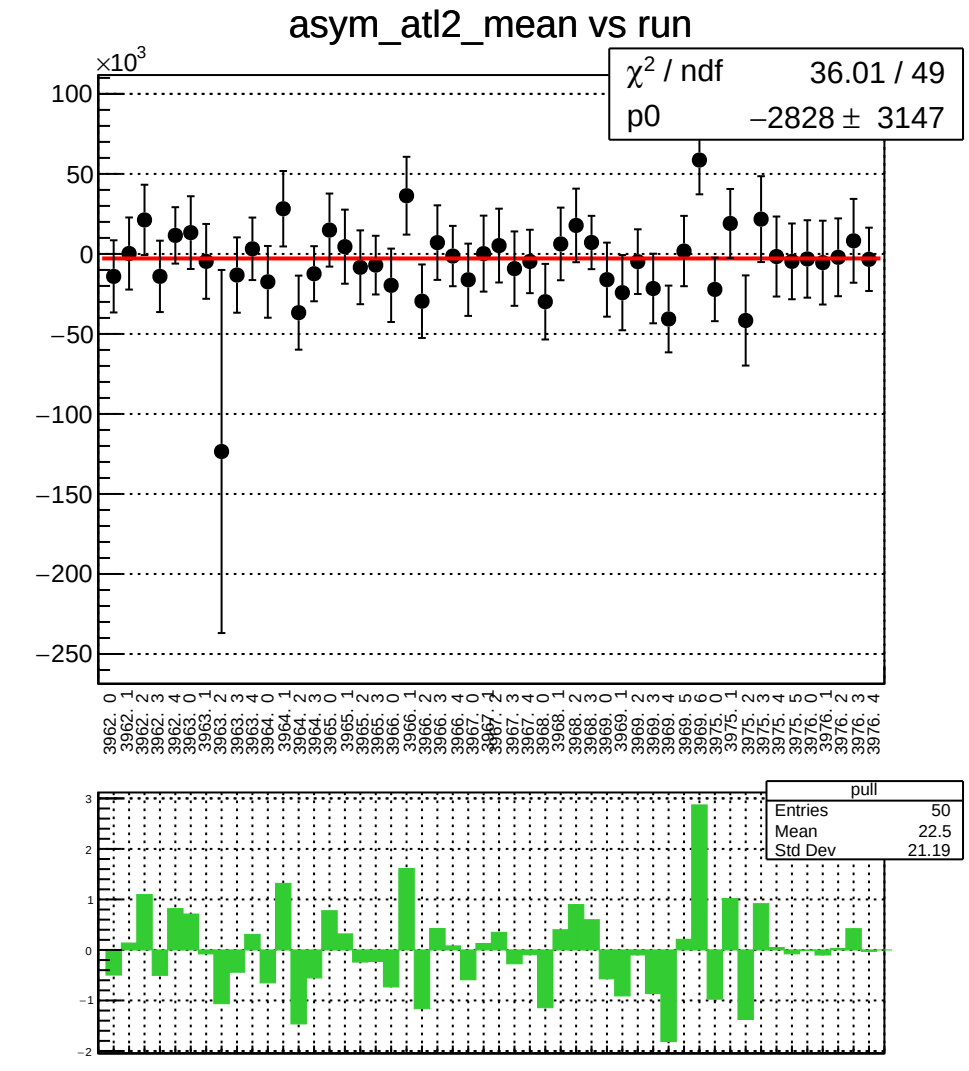

pull1D
Entries 50
Mean −0.02476
Std Dev 0.8494
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

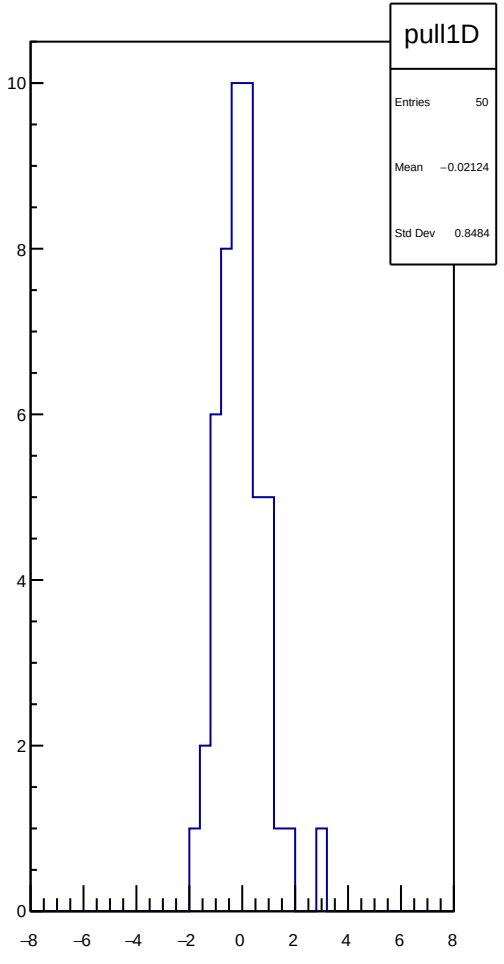

reg_asym_atl2_rms vs run
χ² / ndf 1.682e+04 / 49
p0 393.8 ± 0.3987
10000
8000
6000
4000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

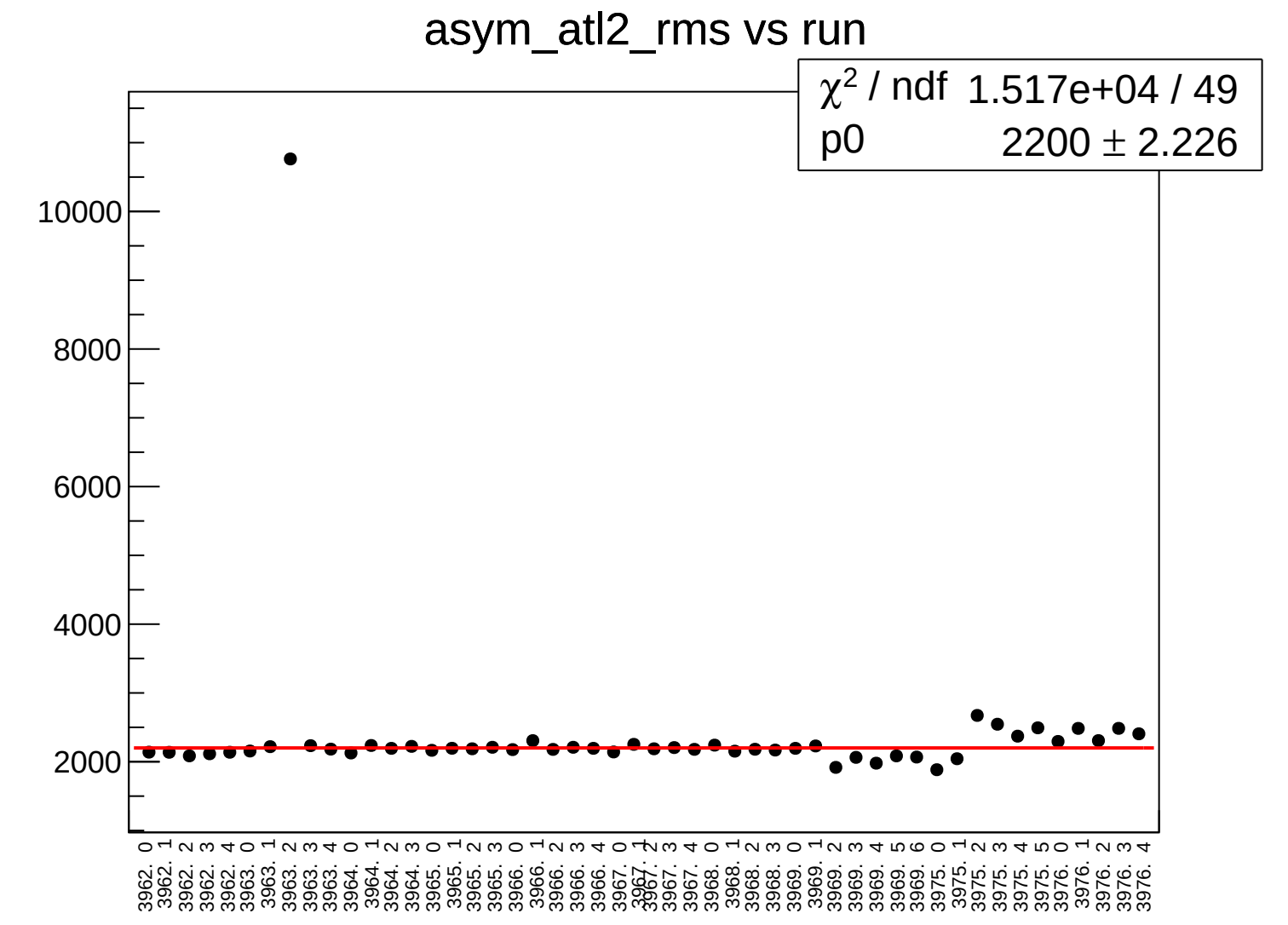

asym_atl2_correction_mean vs run
χ² / ndf 37.11 / 49
p0 2835 ± 3071
pull
Entries 50
Mean 27.49
Std Dev 60.51

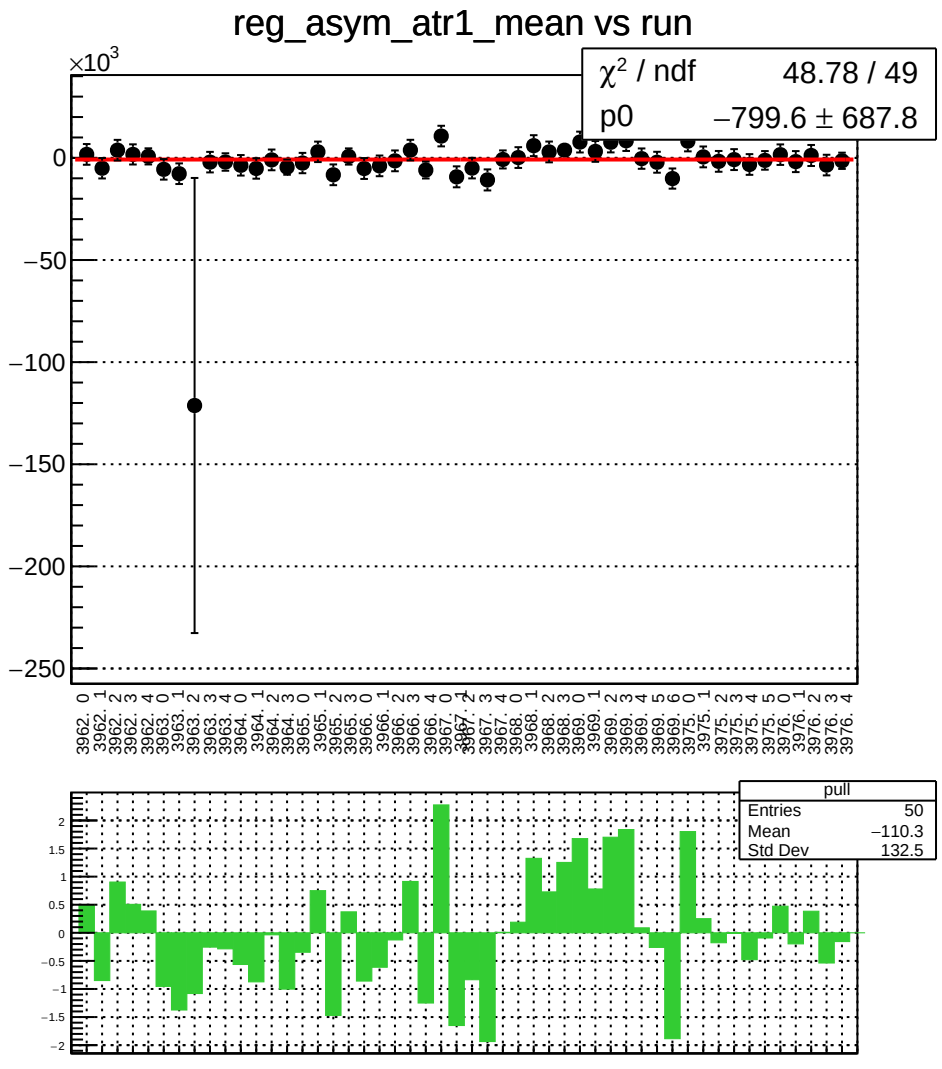

pull1D
Entries 50
Mean 0.003735
Std Dev 0.8615

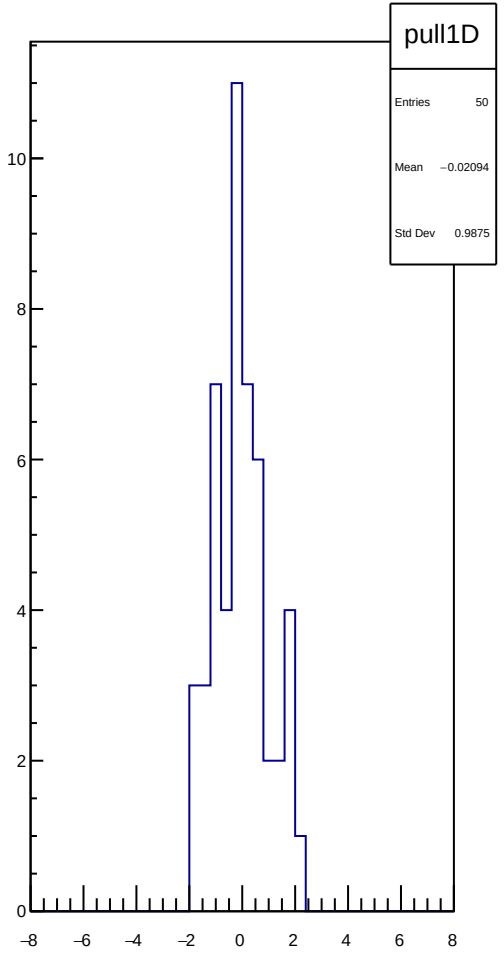

asym_atl2_correction_rms vs run
χ² / ndf 4044 / 49
p0 2159 ± 2.172
2600
2400
2200
2000
1800
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

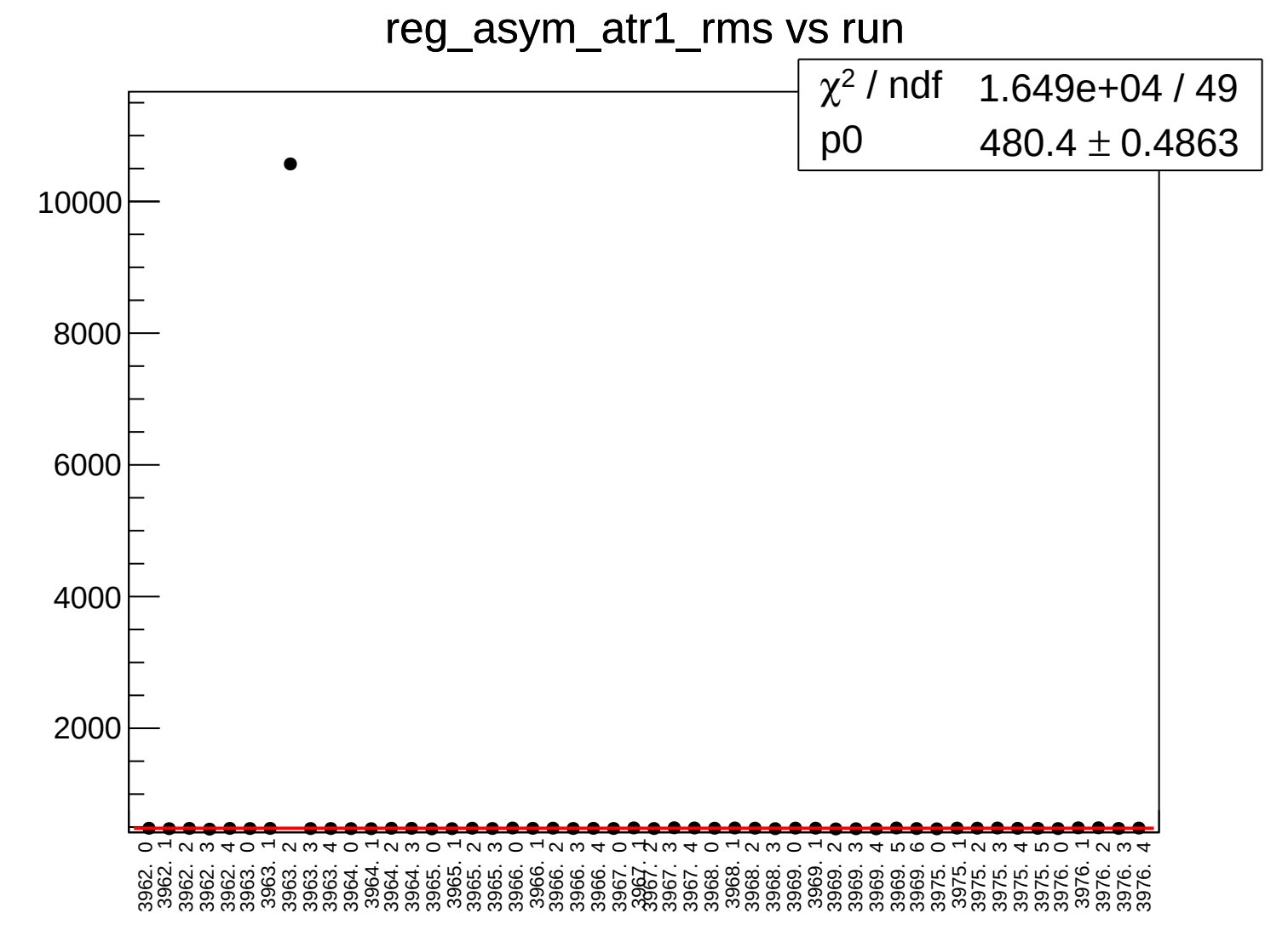

asym_atl2_mean vs run
×10^3
χ² / ndf 36.01 / 49
p0 −2828 ± 3147
pull
Entries 50
Mean 22.5
Std Dev 21.19

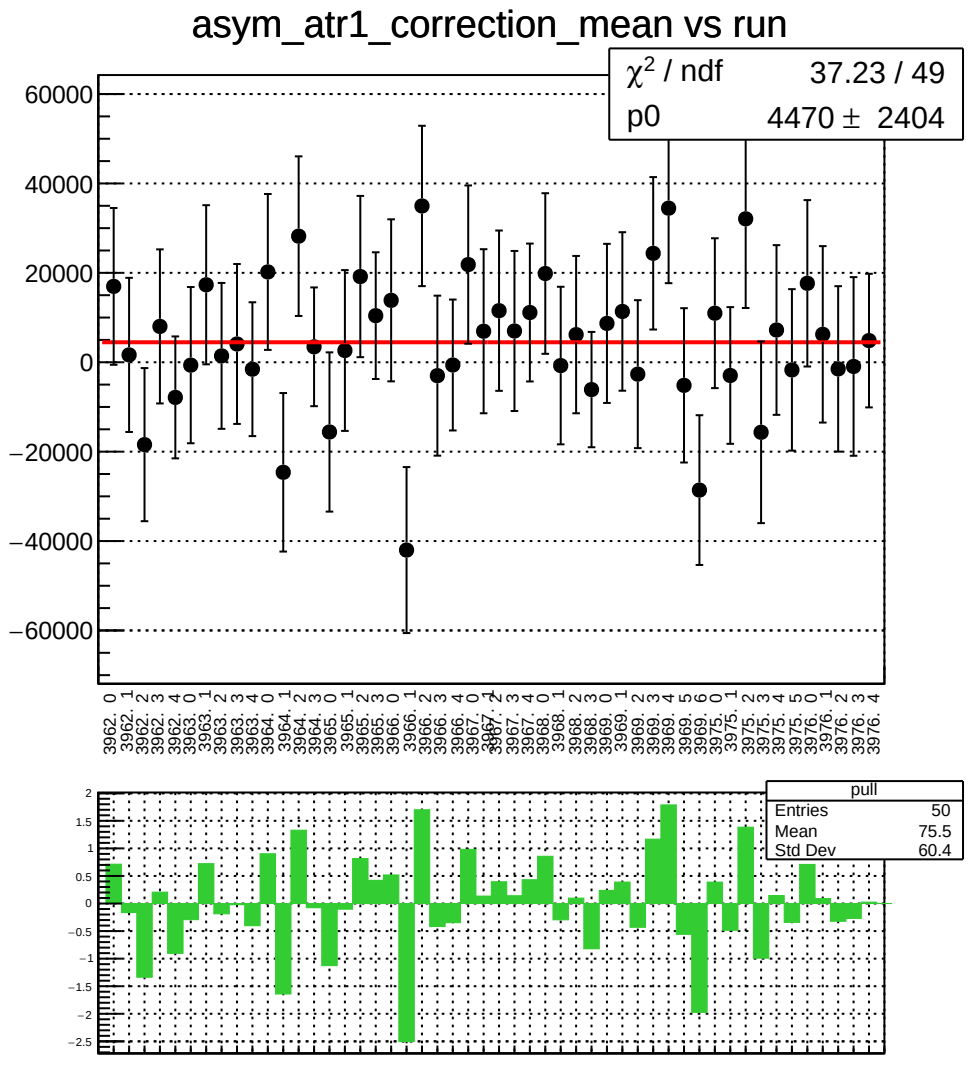

pull1D
Entries 50
Mean −0.02124
Std Dev 0.8484

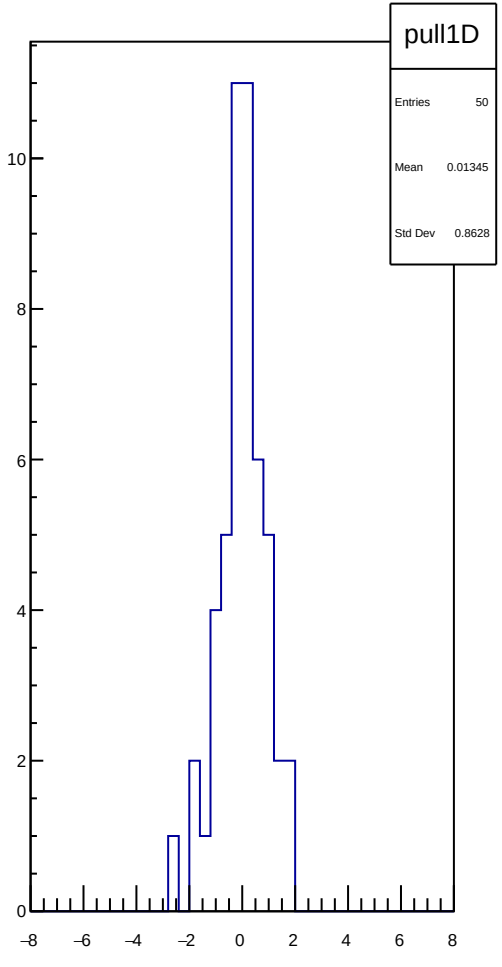

asym_atl2_rms vs run
χ² / ndf 1.517e+04 / 49
p0 2200 ± 2.226
10000
8000
6000
4000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

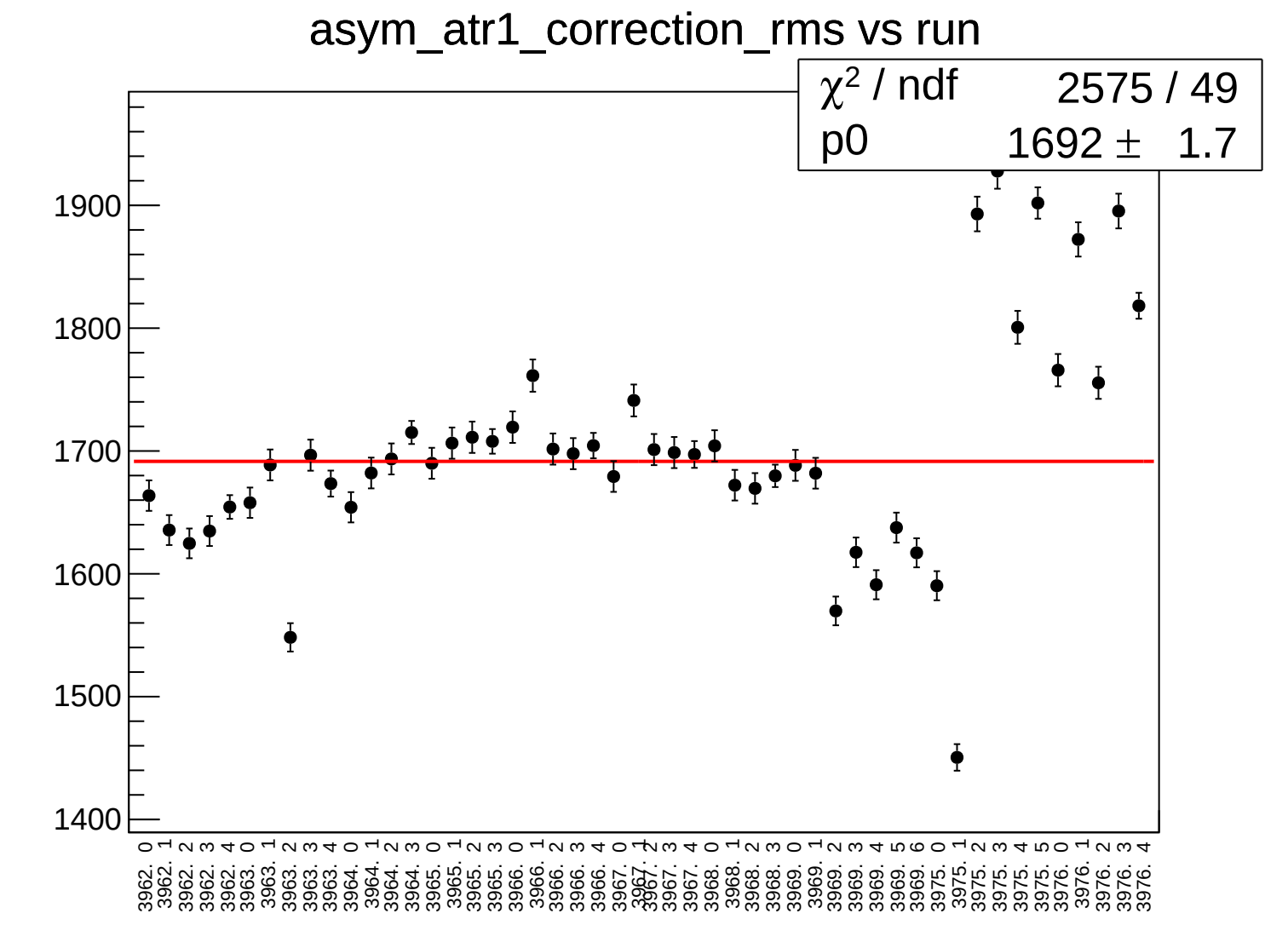

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 48.78 / 49
p0 −799.6 ± 687.8
pull
Entries 50
Mean −110.3
Std Dev 132.5

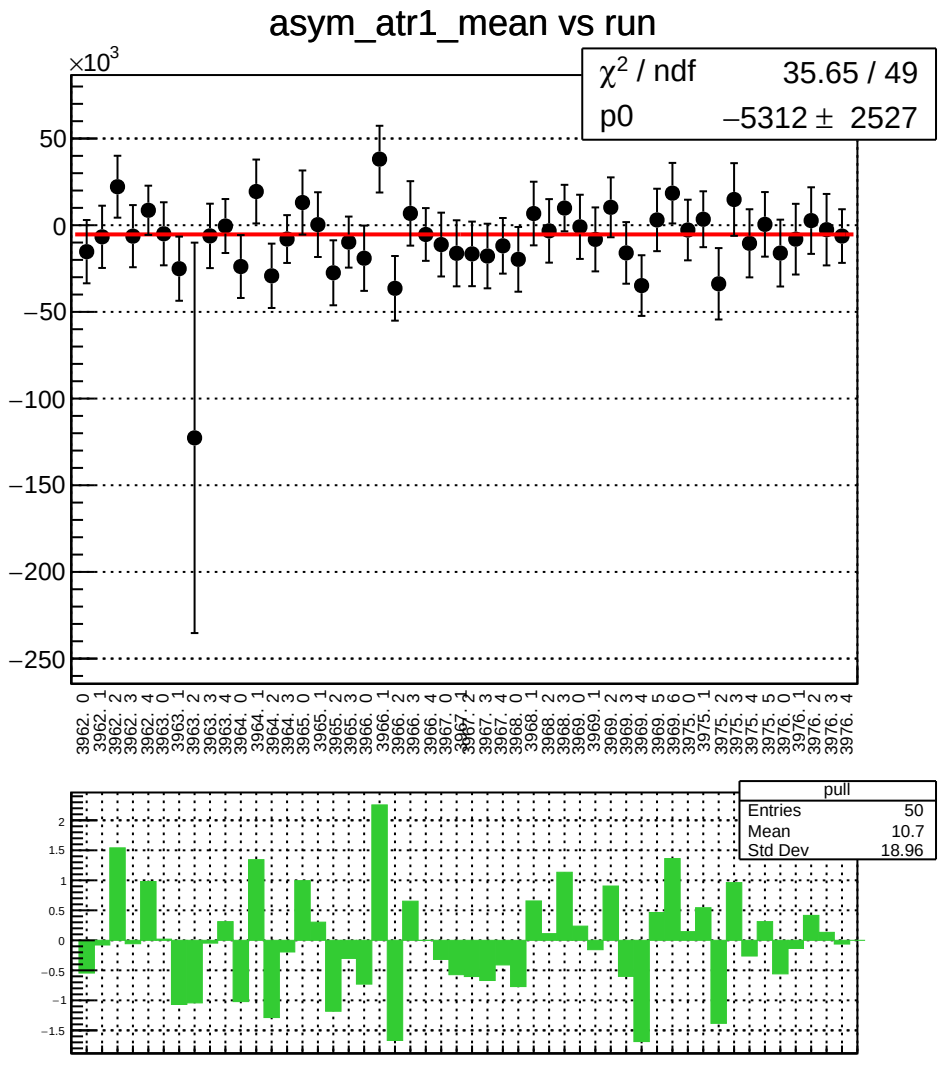

pull1D
Entries 50
Mean −0.02094
Std Dev 0.9875

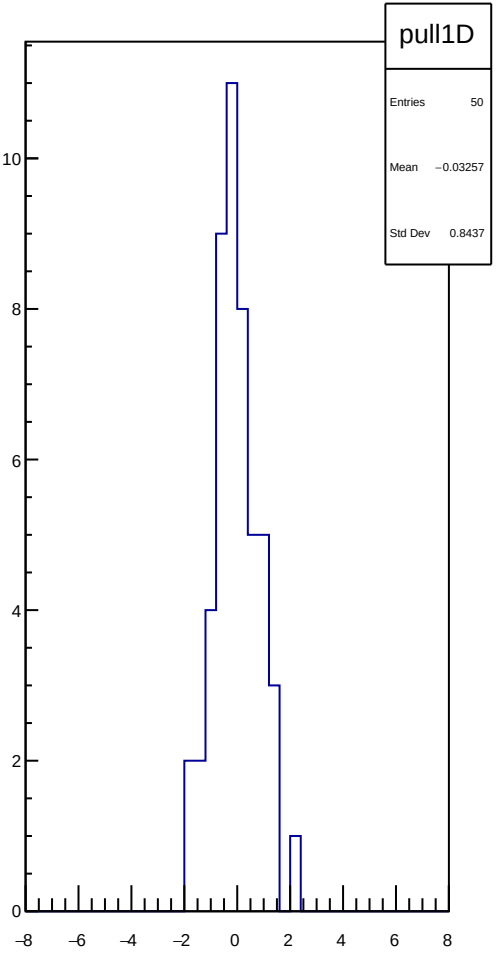

reg_asym_atr1_rms vs run
χ² / ndf 1.649e+04 / 49
p0 480.4 ± 0.4863
10000
8000
6000
4000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

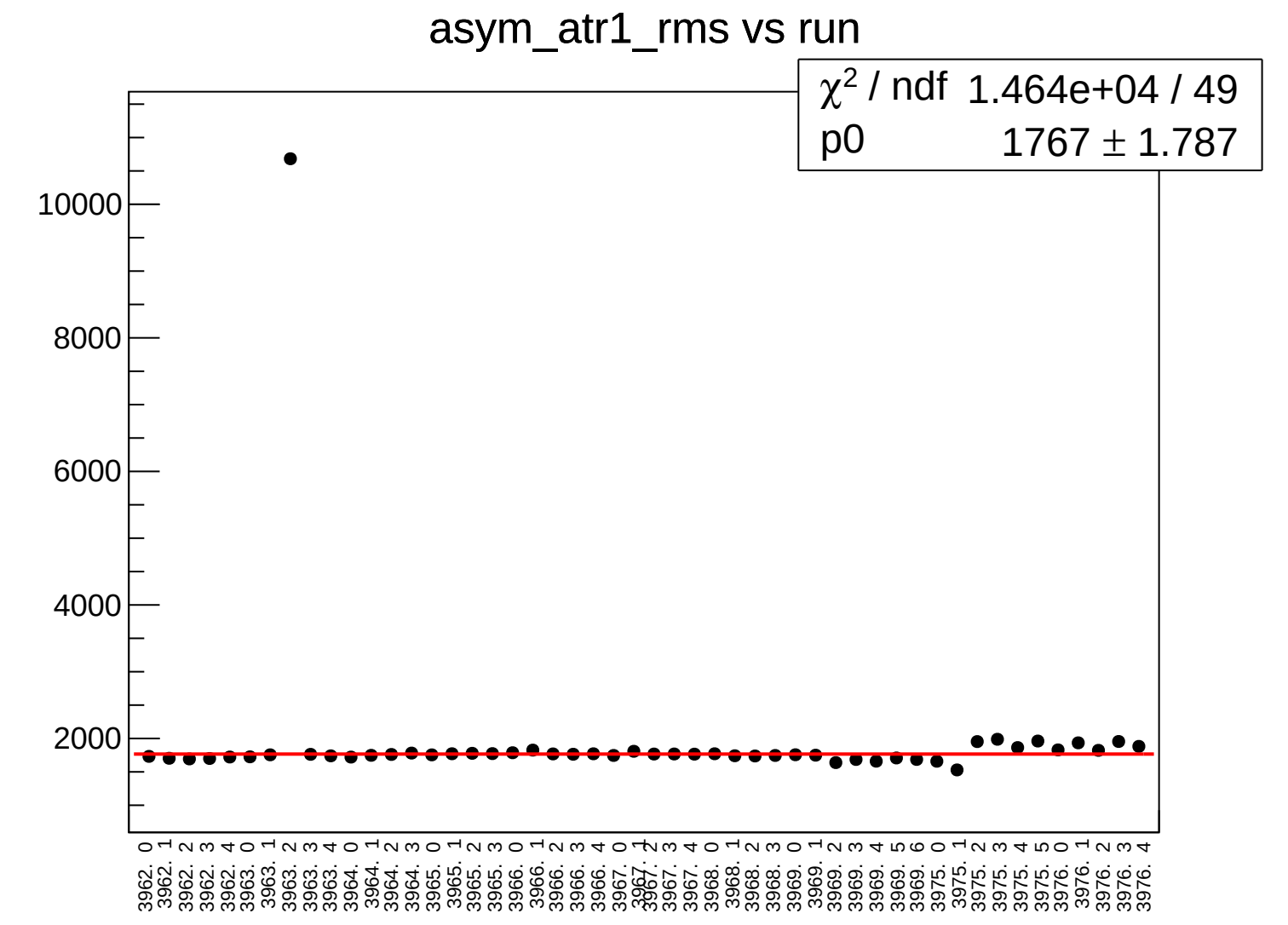

asym_atr1_correction_mean vs run
χ² / ndf 37.23 / 49
p0 4470 ± 2404
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean 75.5
Std Dev 60.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean 0.01345
Std Dev 0.8628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_correction_rms vs run
χ² / ndf 2575 / 49
p0 1692 ± 1.7
1900
1800
1700
1600
1500
1400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_atr1_mean vs run
×10^3
χ^2 / ndf 35.65 / 49
p0 −5312 ± 2527
50
0
−50
−100
−150
−200
−250
pull
Entries 50
Mean 10.7
Std Dev 18.96
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.03257
Std Dev 0.8437
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_rms vs run
χ² / ndf 1.464e+04 / 49
p0 1767 ± 1.787
10000
8000
6000
4000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
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3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
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3969. 6
3975. 0
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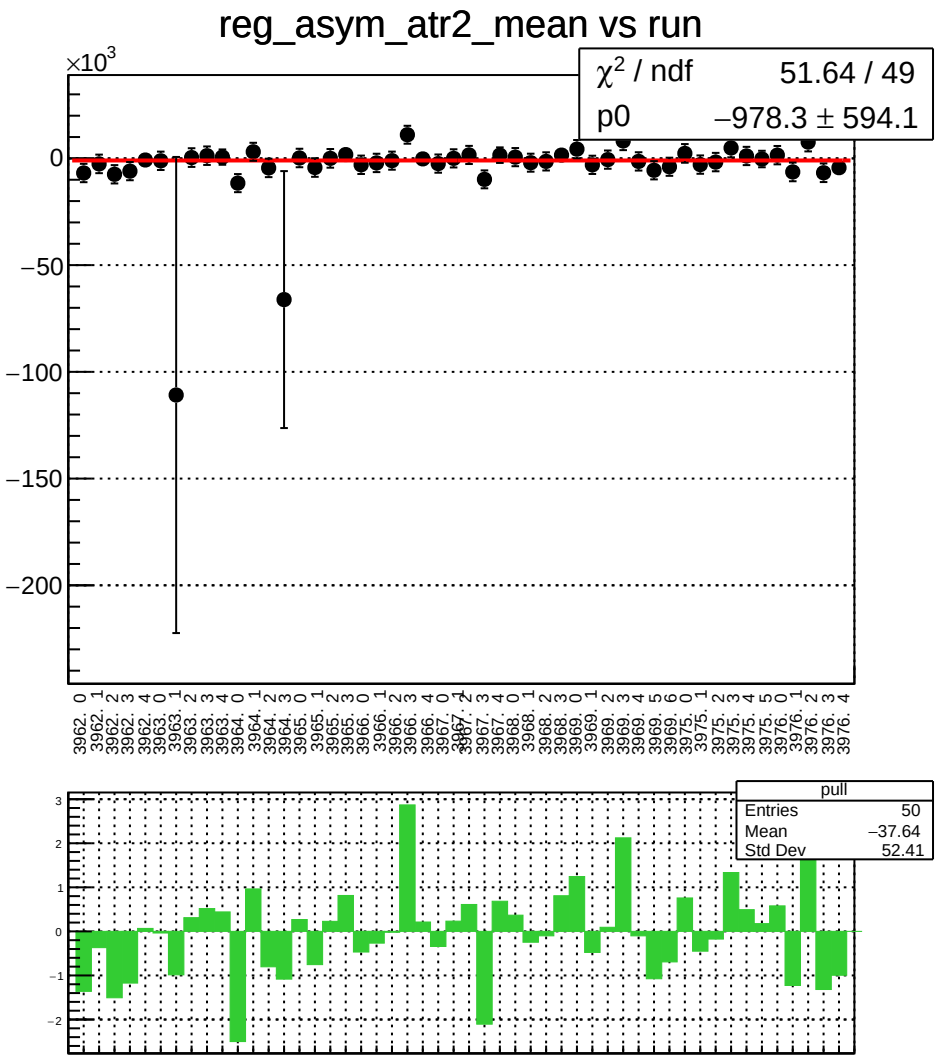
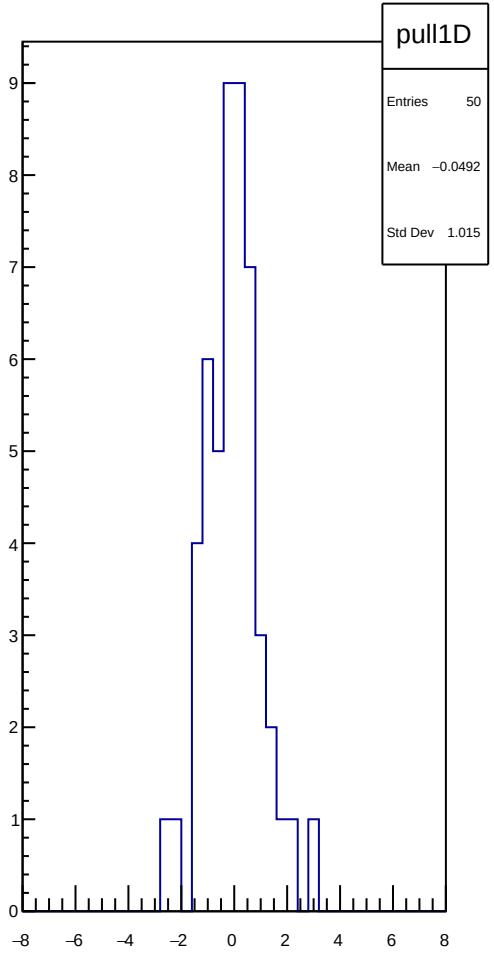
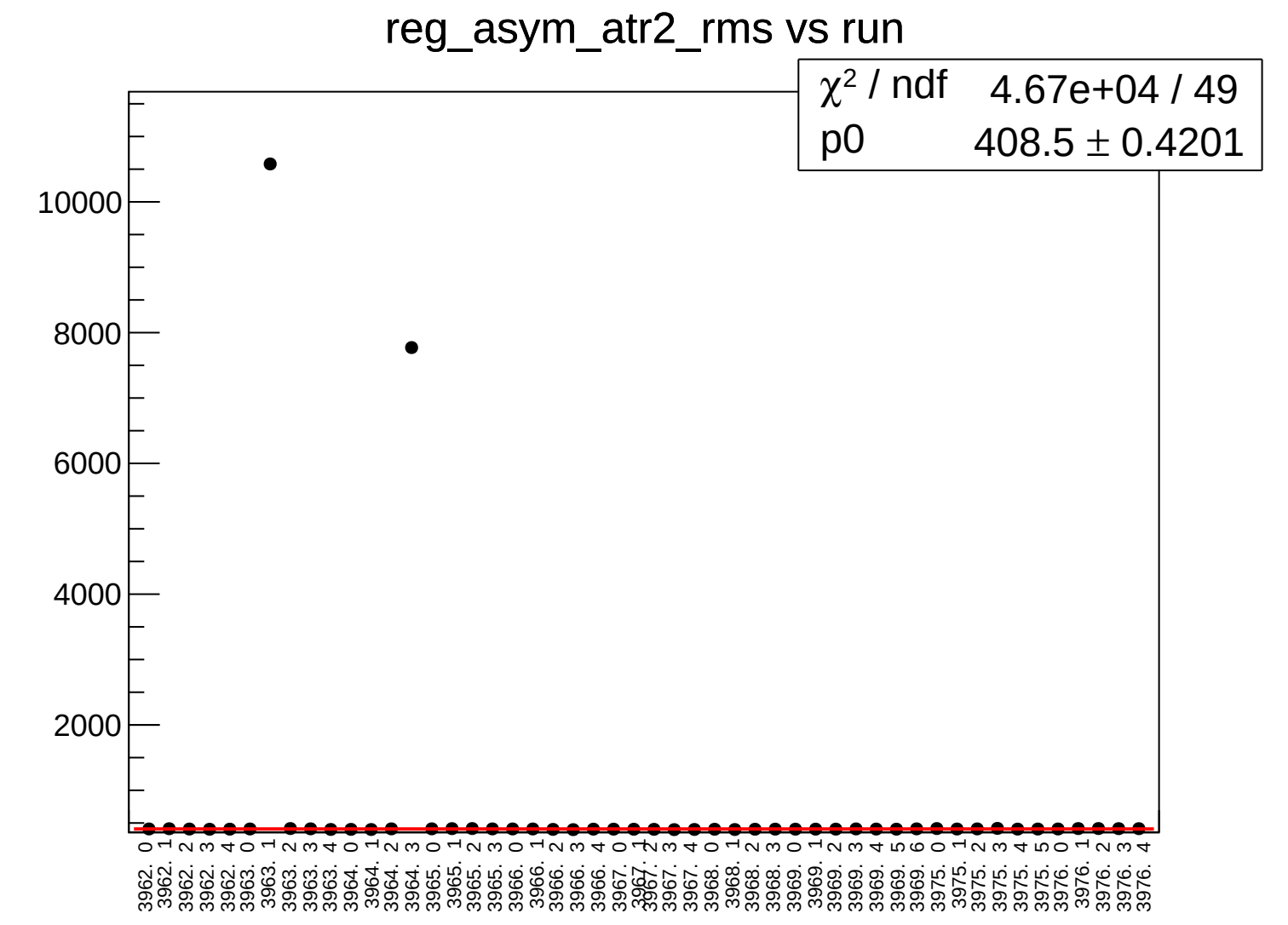
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 51.64 / 49
p0 −978.3 ± 594.1
0
−50
−100
−150
−200
pull
Entries 50
Mean −37.64
Std Dev 52.41


pull1D
Entries 50
Mean −0.0492
Std Dev 1.015


reg_asym_atr2_rms vs run
χ² / ndf 4.67e+04 / 49
p0 408.5 ± 0.4201
10000
8000
6000
4000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
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3963. 1
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3963. 3
3963. 4
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3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
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3968. 1
3968. 2
3968. 3
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3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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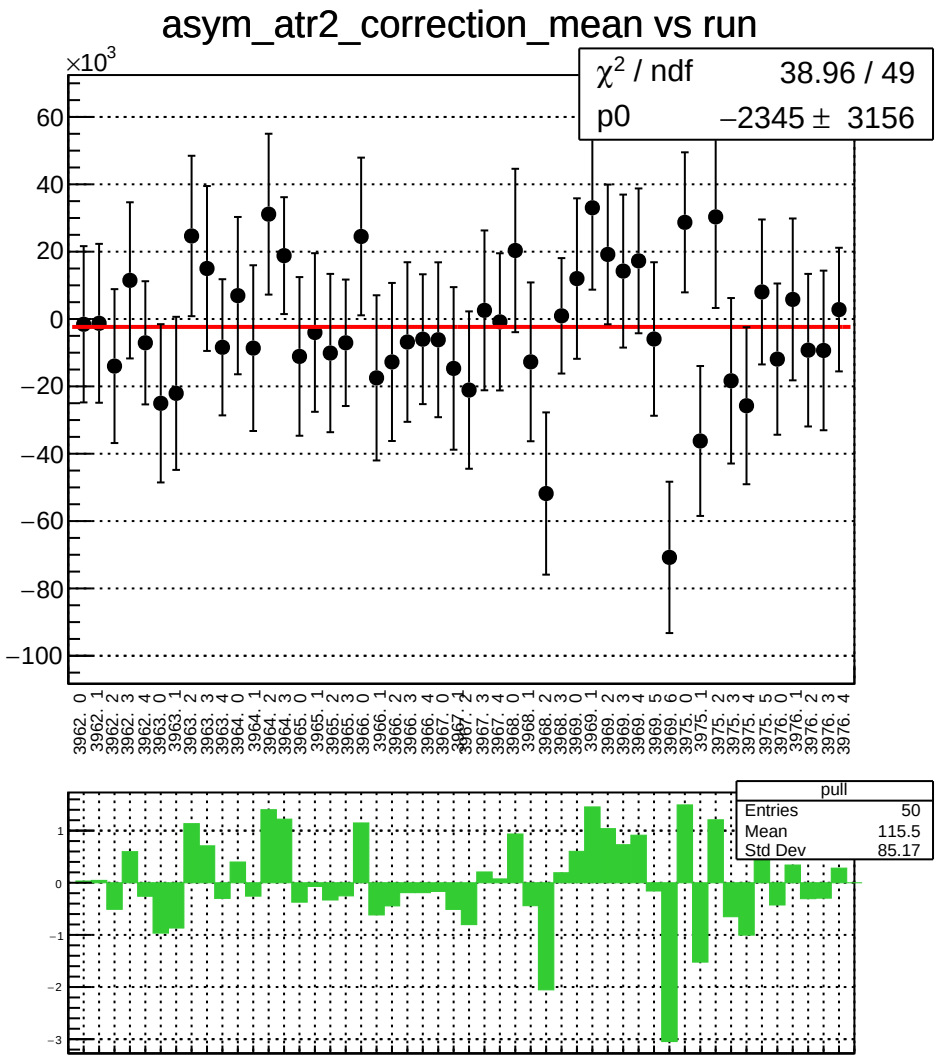
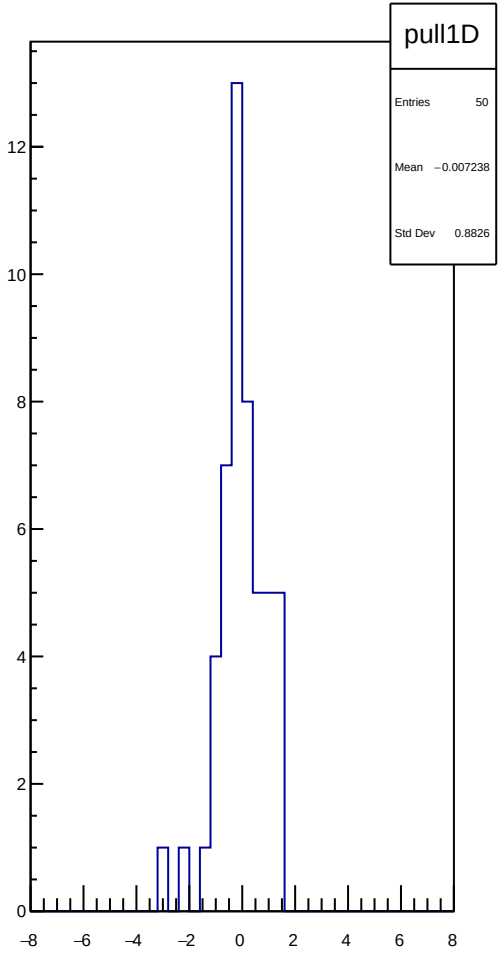
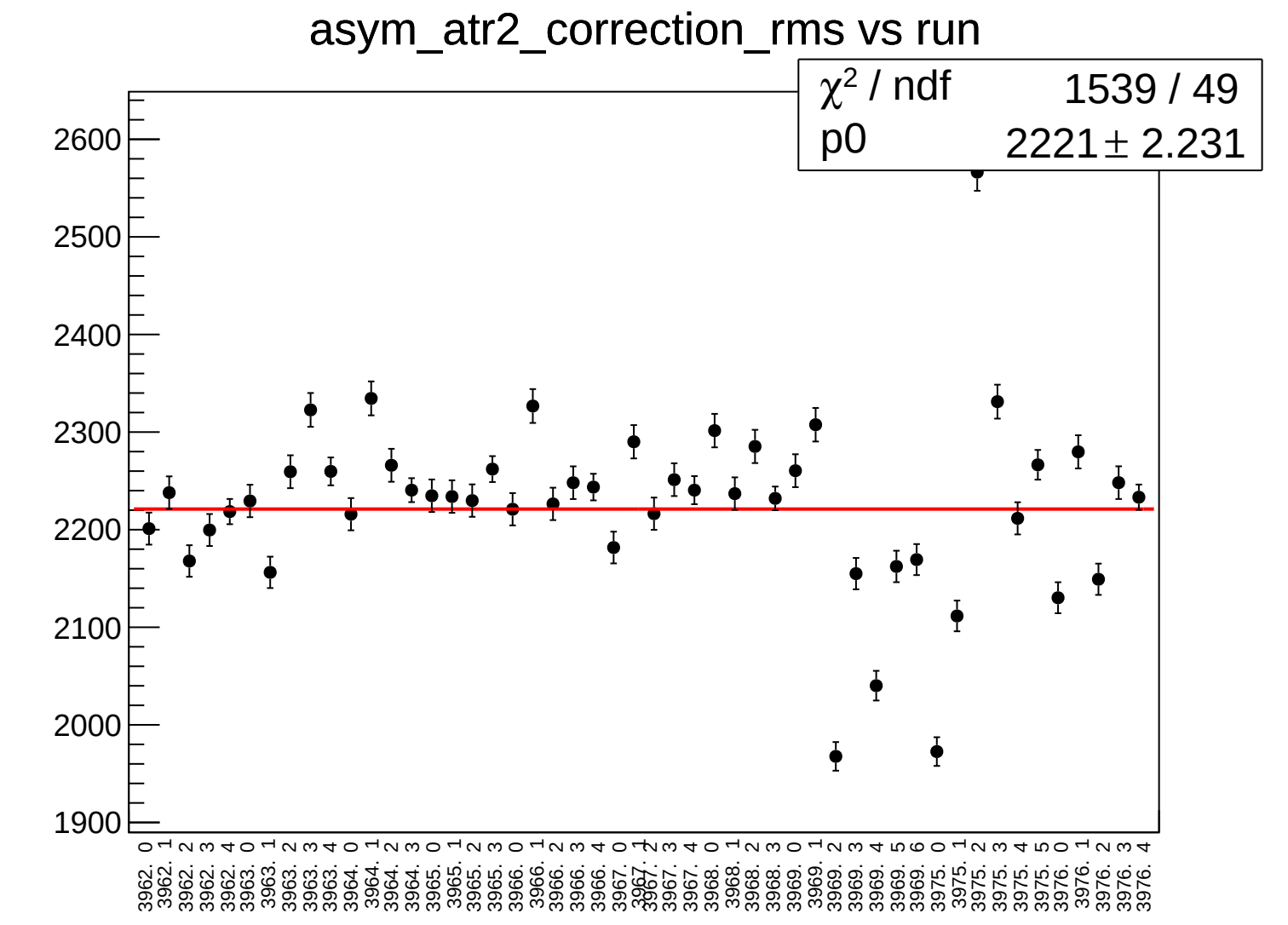
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_atr2_correction_mean vs run
×10^3
χ² / ndf 38.96 / 49
p0 −2345 ± 3156
pull
Entries 50
Mean 115.5
Std Dev 85.17


pull1D
Entries 50
Mean −0.007238
Std Dev 0.8826


asym_atr2_correction_rms vs run
χ² / ndf 1539 / 49
p0 2221 ± 2.231
2600
2500
2400
2300
2200
2100
2000
1900
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
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3965. 2
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3966. 2
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3967. 2
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3969. 0
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3969. 6
3975. 0
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3975. 2
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3975. 4
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3976. 0
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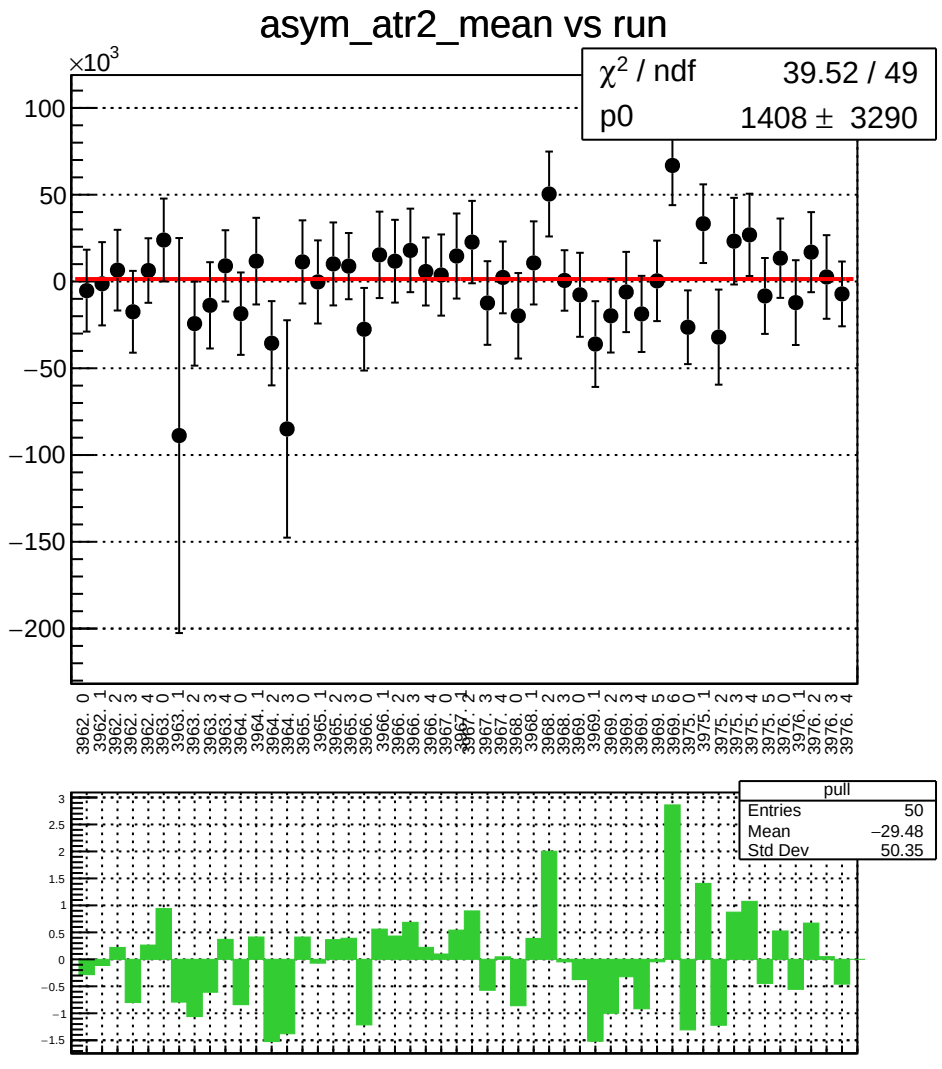
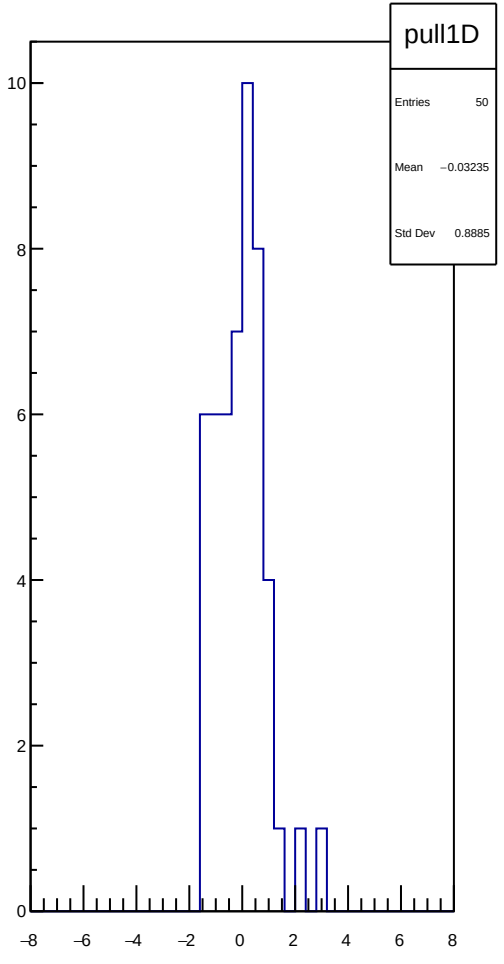
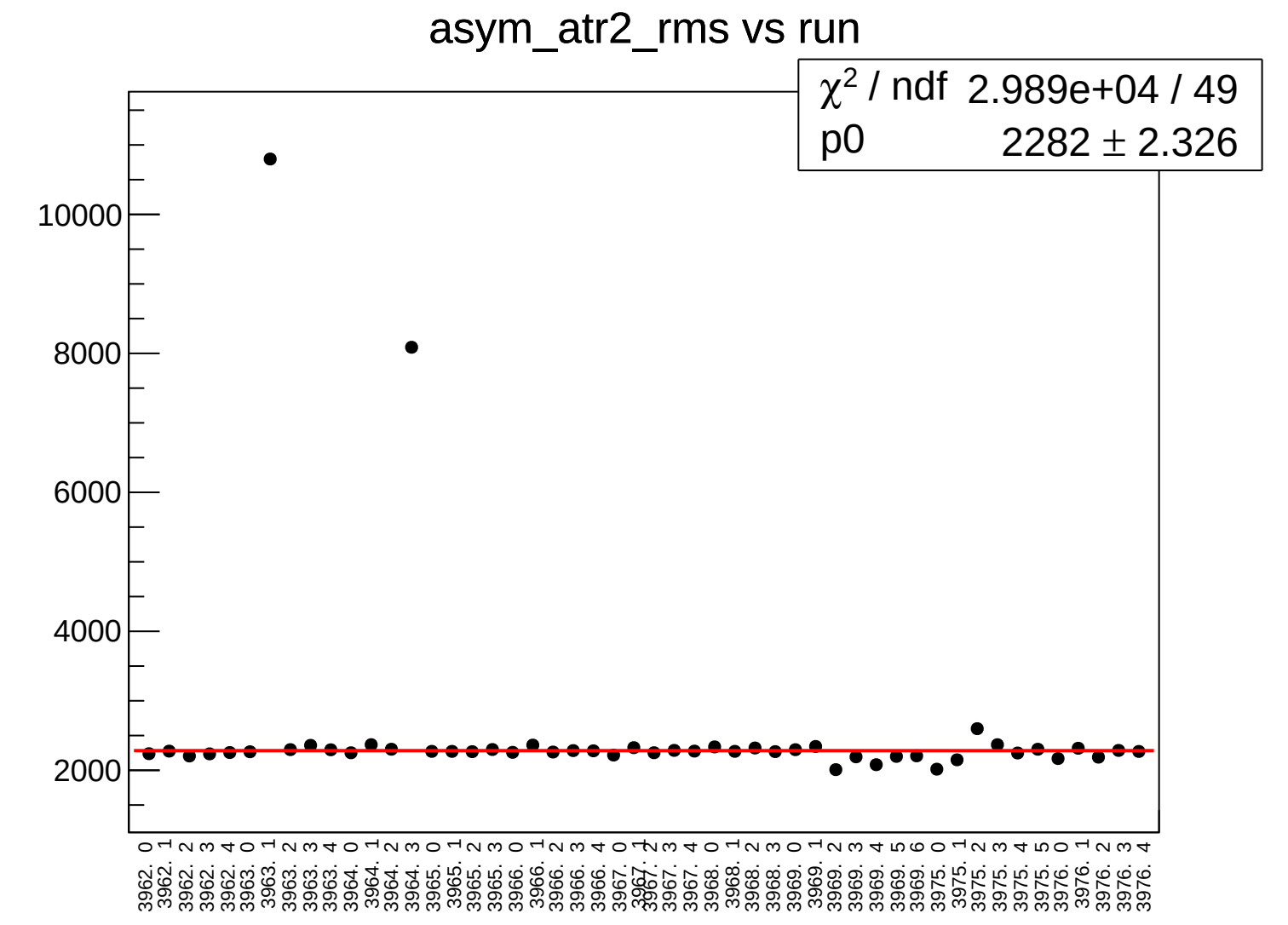
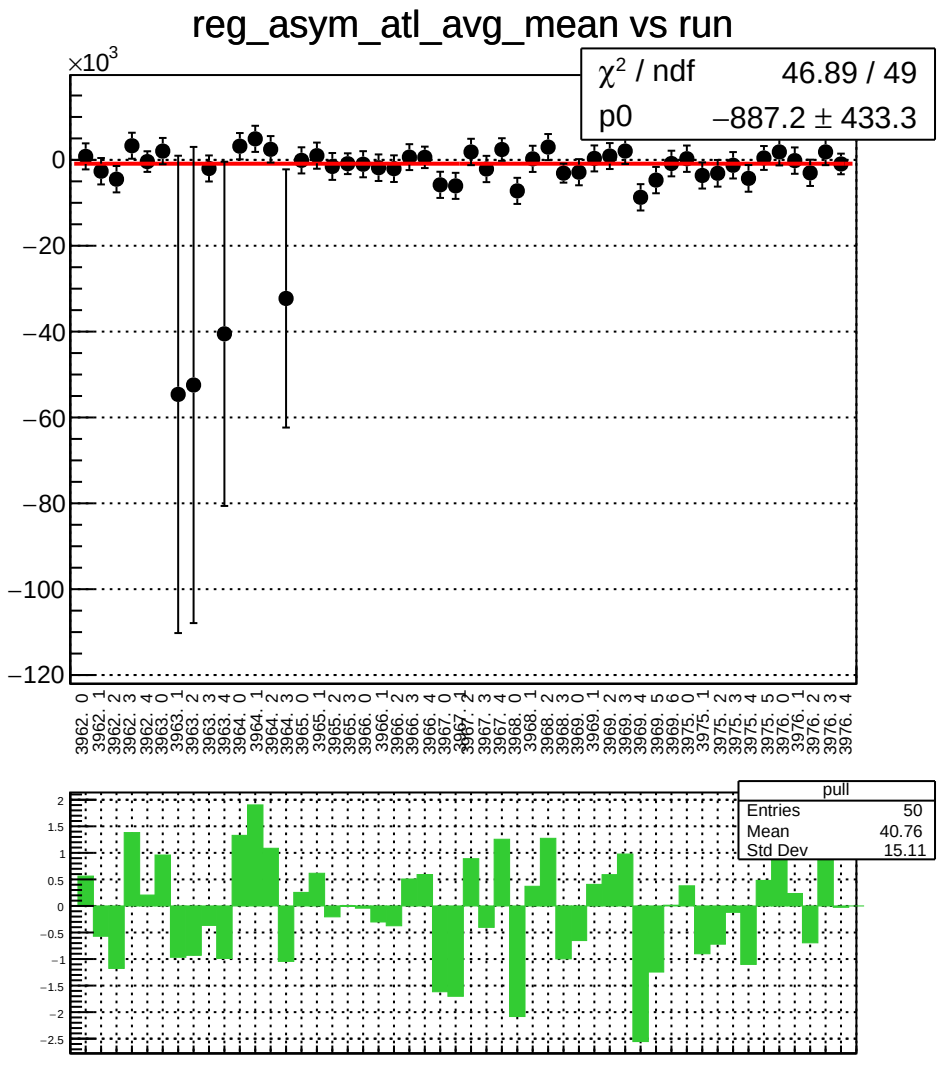
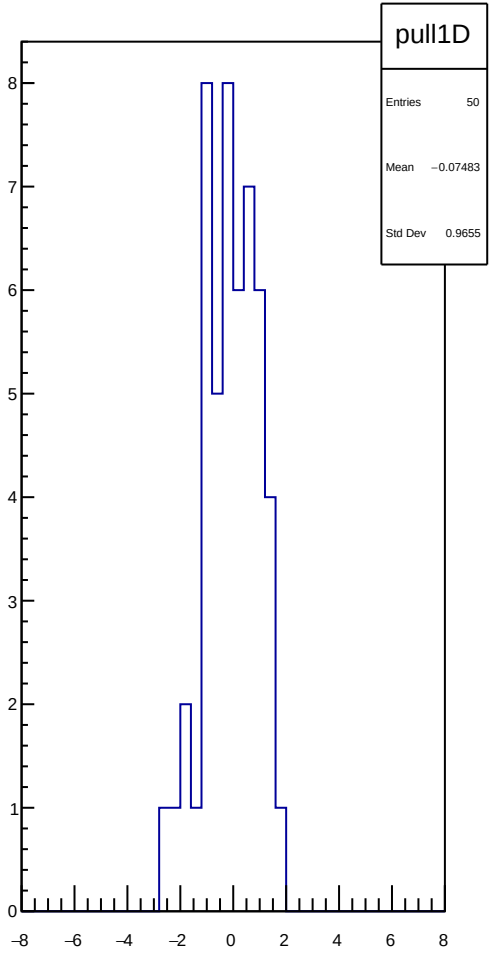
3976. 3
3976. 4

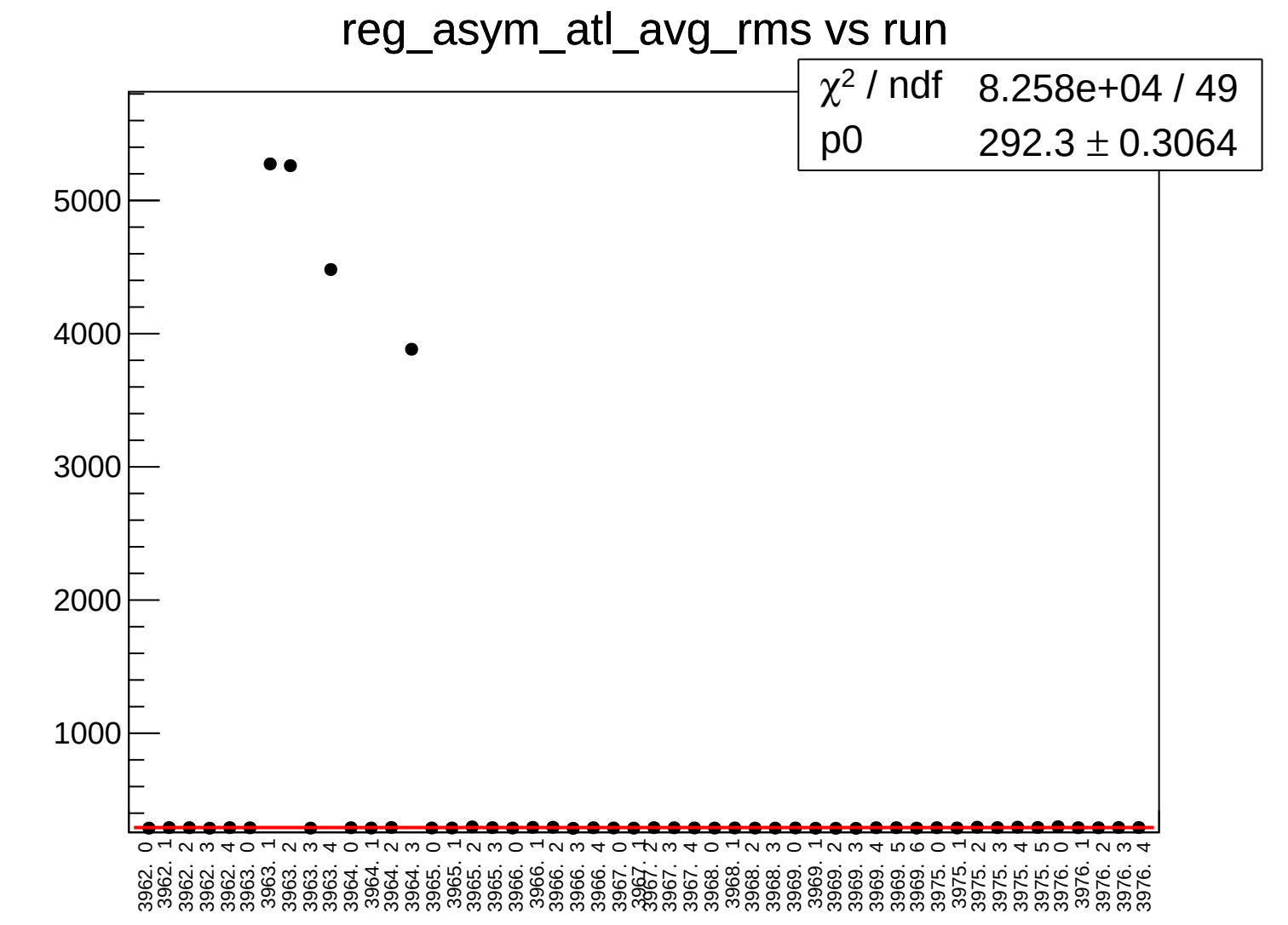

asym_atr2_mean vs run
×10^3
χ^2 / ndf 39.52 / 49
p0 1408 ± 3290
100
50
0
−50
−100
−150
−200
pull
Entries 50
Mean −29.48
Std Dev 50.35
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

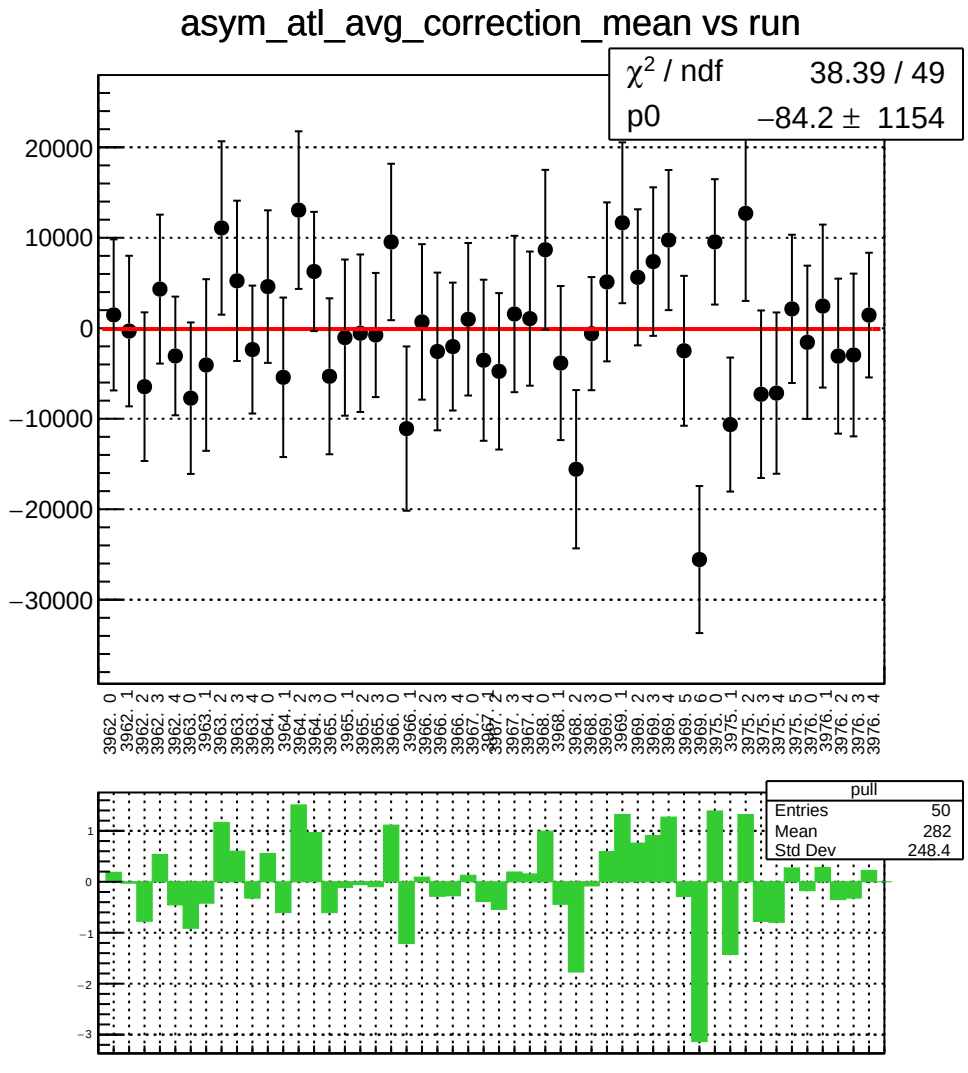

pull1D
Entries 50
Mean −0.03235
Std Dev 0.8885
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

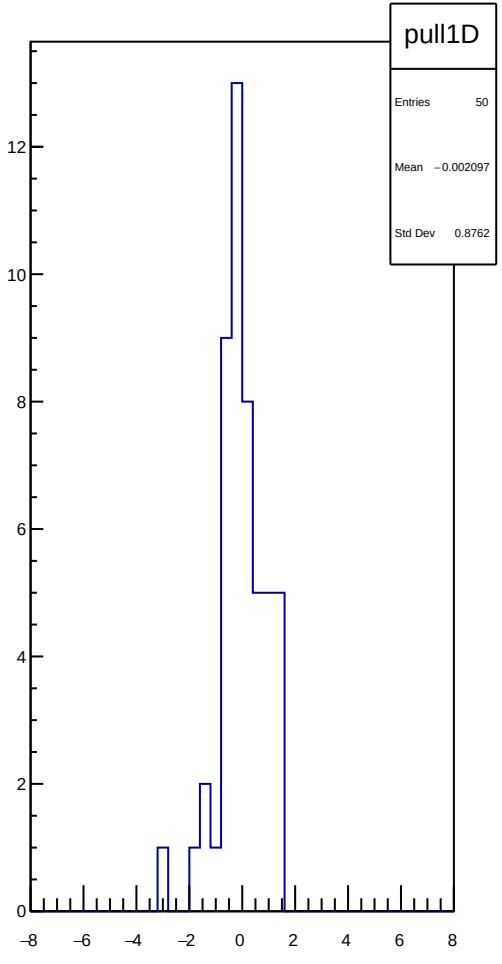

asym_atr2_rms vs run
χ² / ndf 2.989e+04 / 49
p0 2282 ± 2.326
10000
8000
6000
4000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

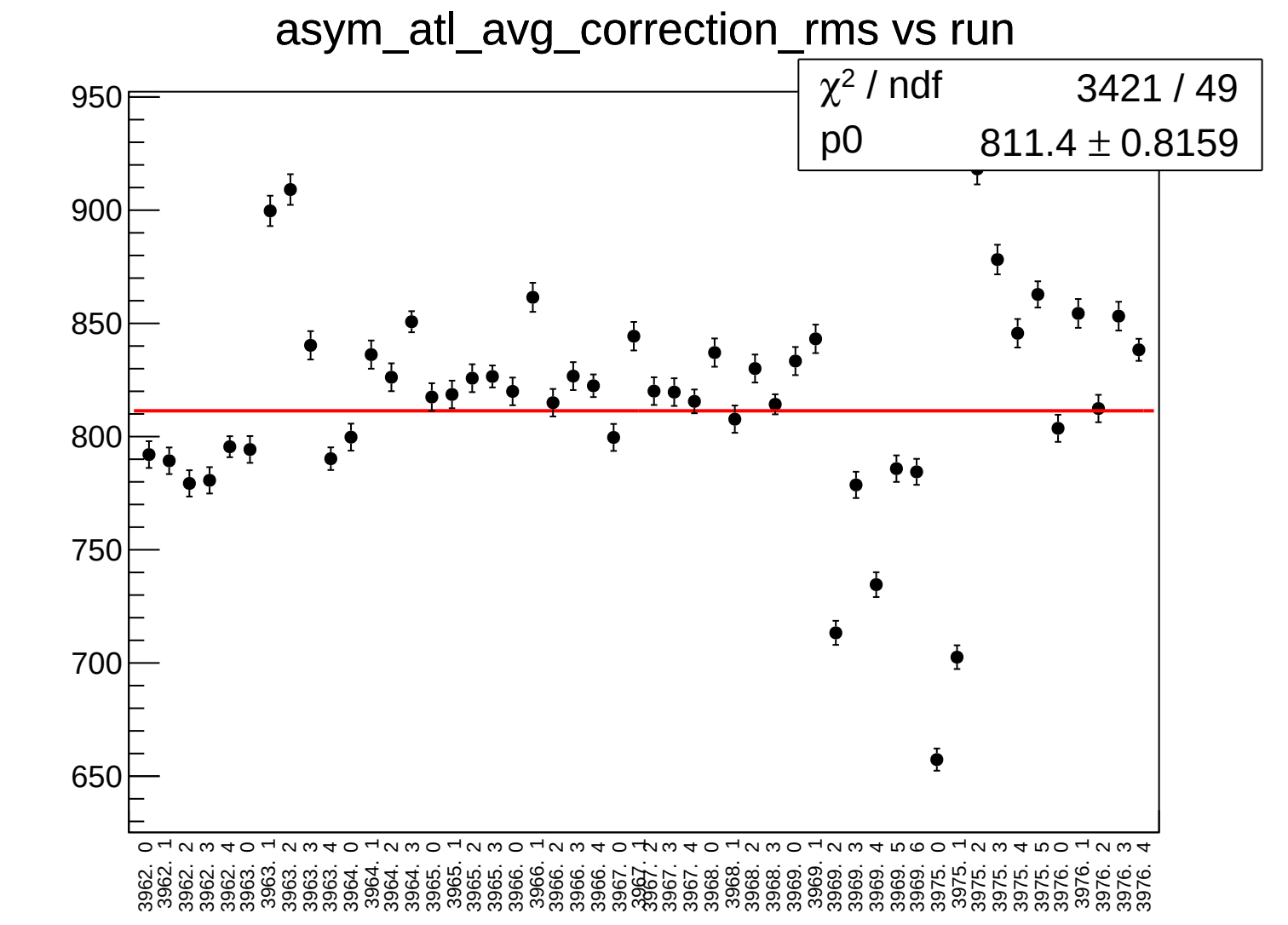

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 46.89 / 49
p0 −887.2 ± 433.3
0
−20
−40
−60
−80
−100
−120
pull
Entries 50
Mean 40.76
Std Dev 15.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

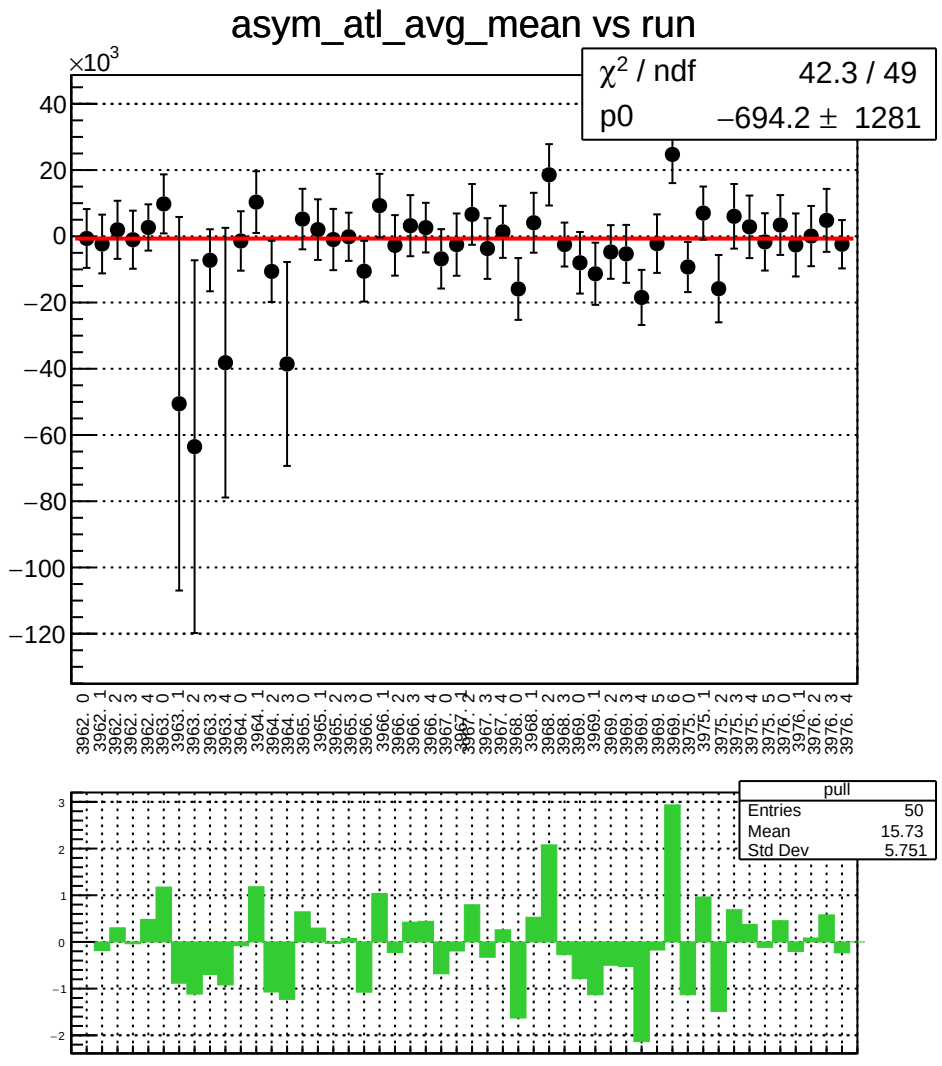

pull1D
Entries 50
Mean −0.07483
Std Dev 0.9655
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

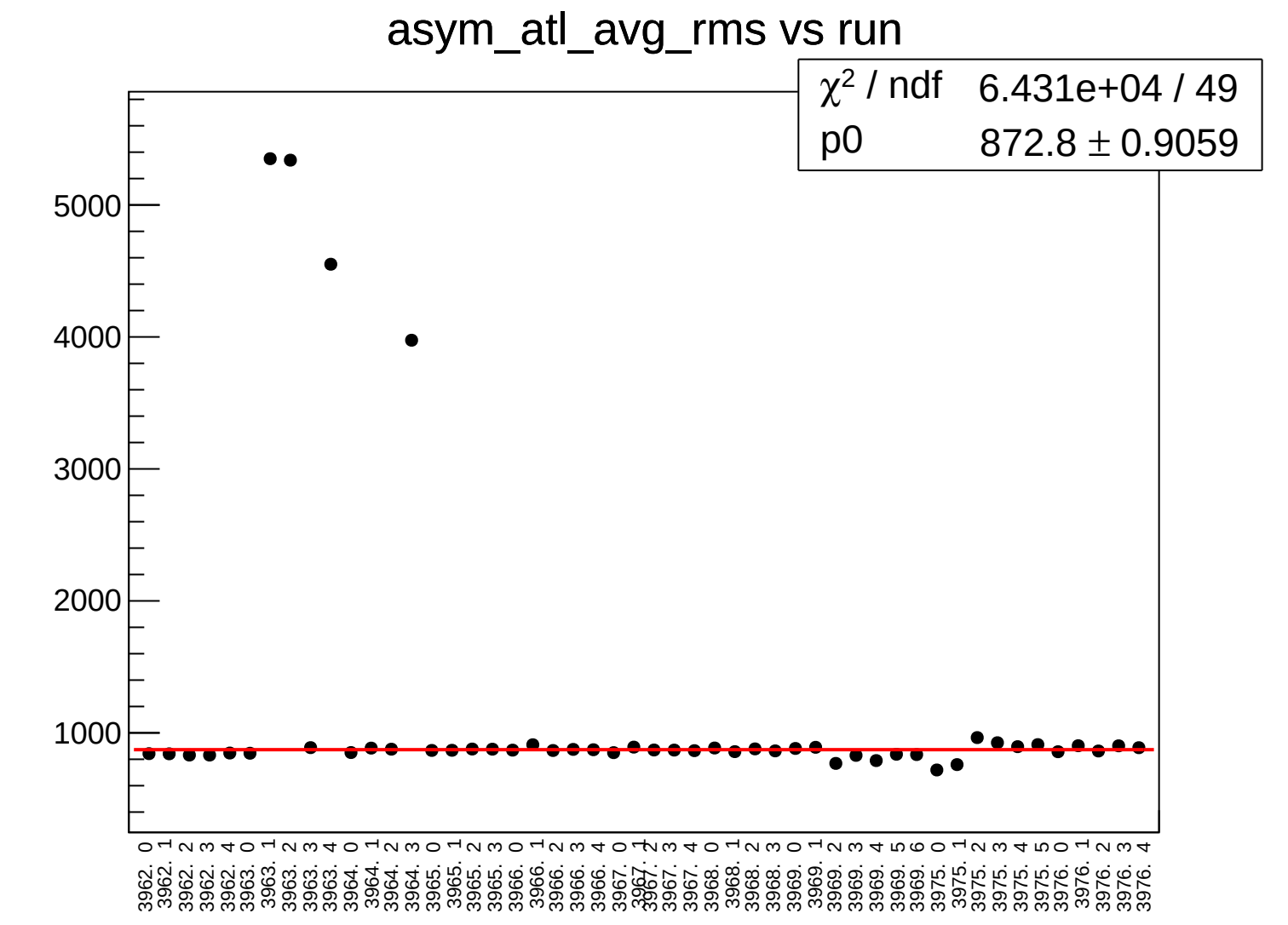

reg_asym_atl_avg_rms vs run
χ² / ndf 8.258e+04 / 49
p0 292.3 ± 0.3064
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

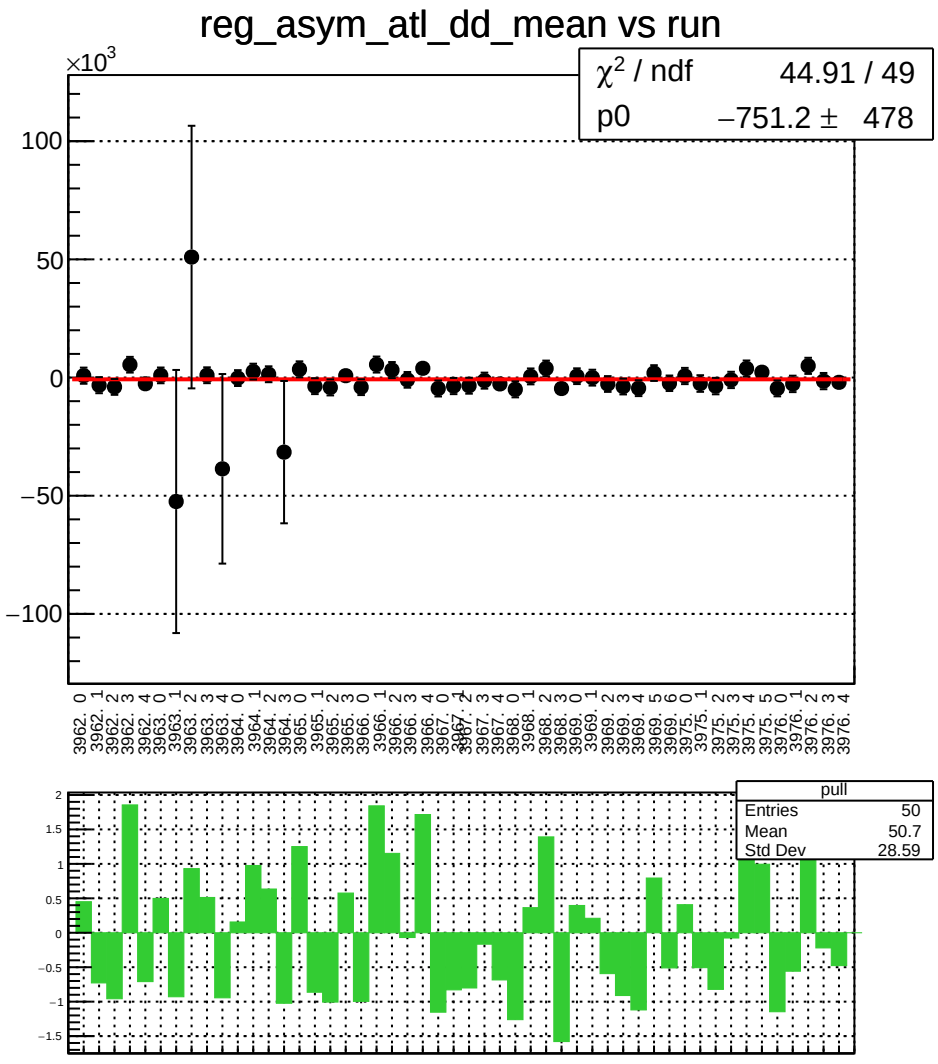

asym_atl_avg_correction_mean vs run
χ² / ndf 38.39 / 49
p0 −84.2 ± 1154
20000
10000
0
−10000
−20000
−30000
pull
Entries 50
Mean 282
Std Dev 248.4
1
0
−1
−2
−3

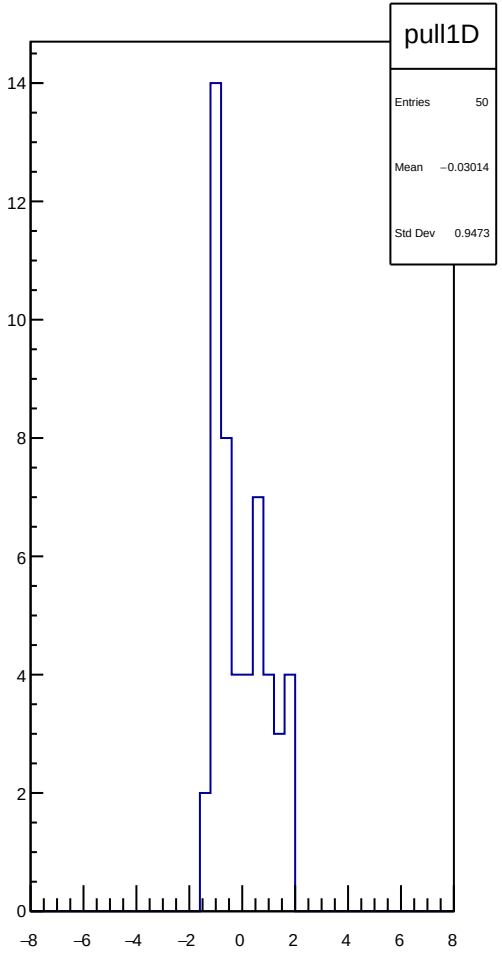

pull1D
Entries 50
Mean −0.002097
Std Dev 0.8762
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

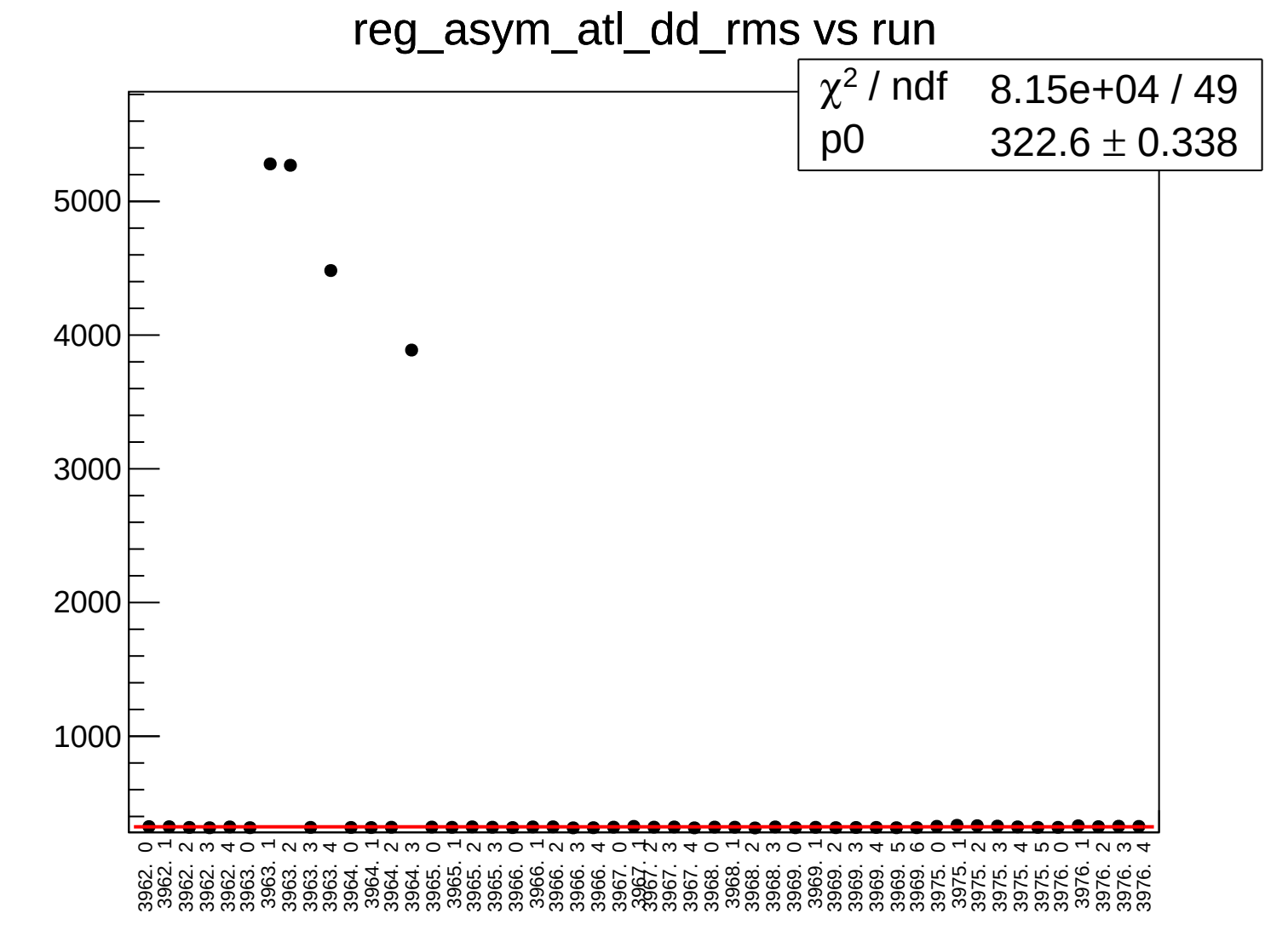

asym_atl_avg_correction_rms vs run
χ² / ndf 3421 / 49
p0 811.4 ± 0.8159
950
900
850
800
750
700
650
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

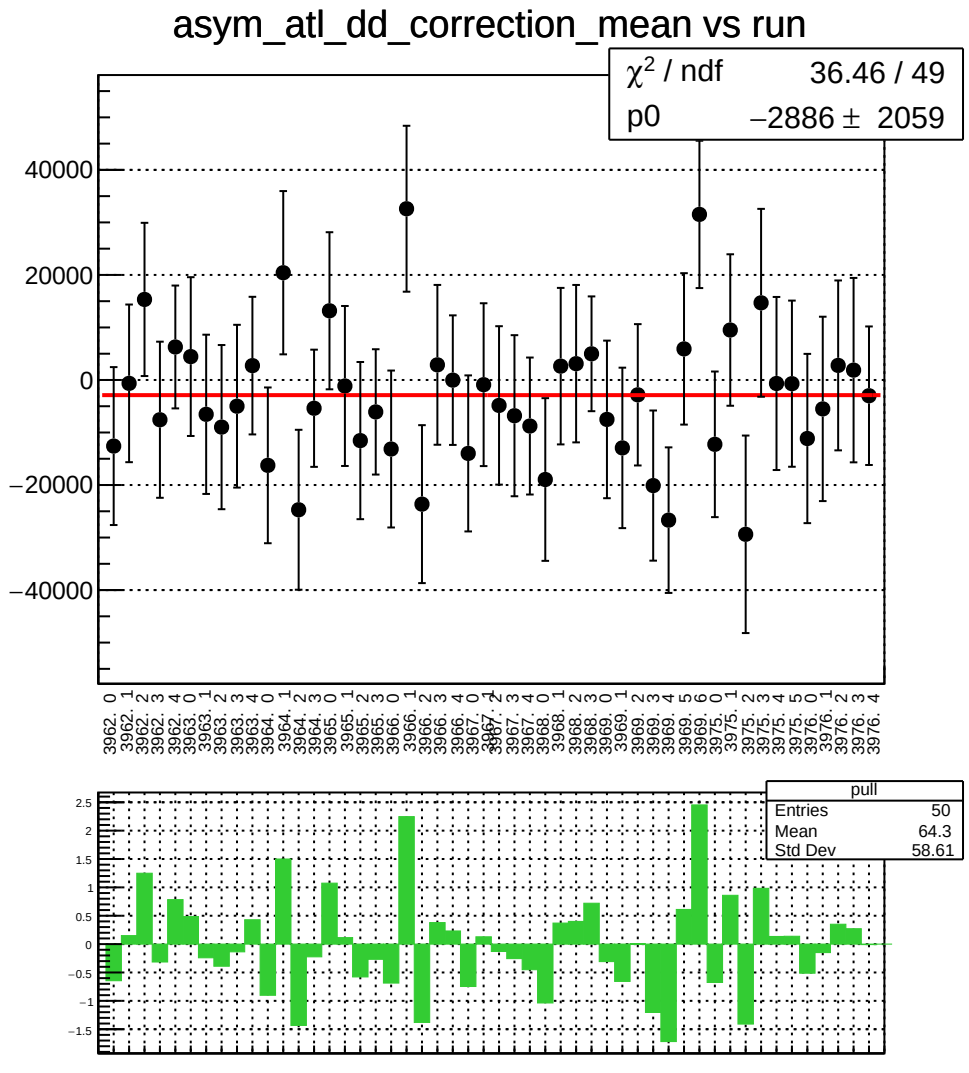

asym_atl_avg_mean vs run
×10^3
χ² / ndf 42.3 / 49
p0 −694.2 ± 1281
40
20
0
−20
−40
−60
−80
−100
−120
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 15.73
Std Dev 5.751
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.06555
Std Dev 0.9174
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

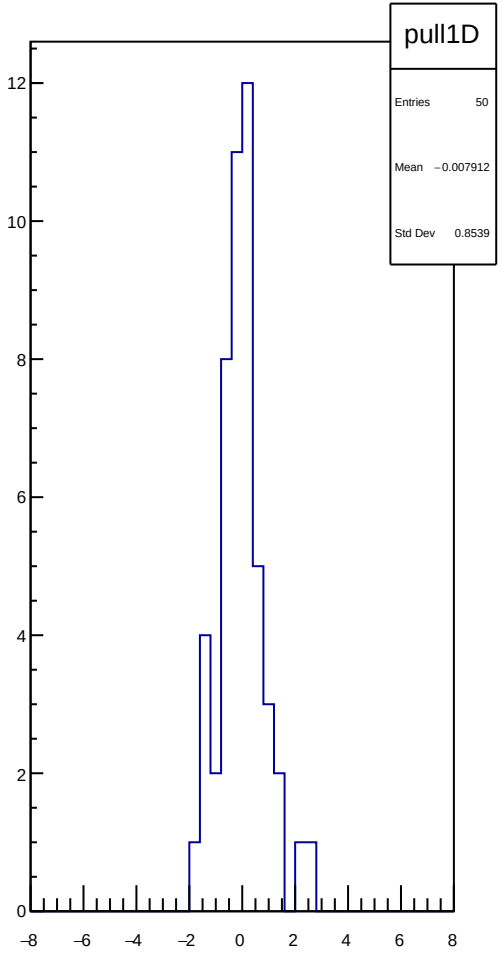

asym_atl_avg_rms vs run
χ² / ndf 6.431e+04 / 49
p0 872.8 ± 0.9059
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

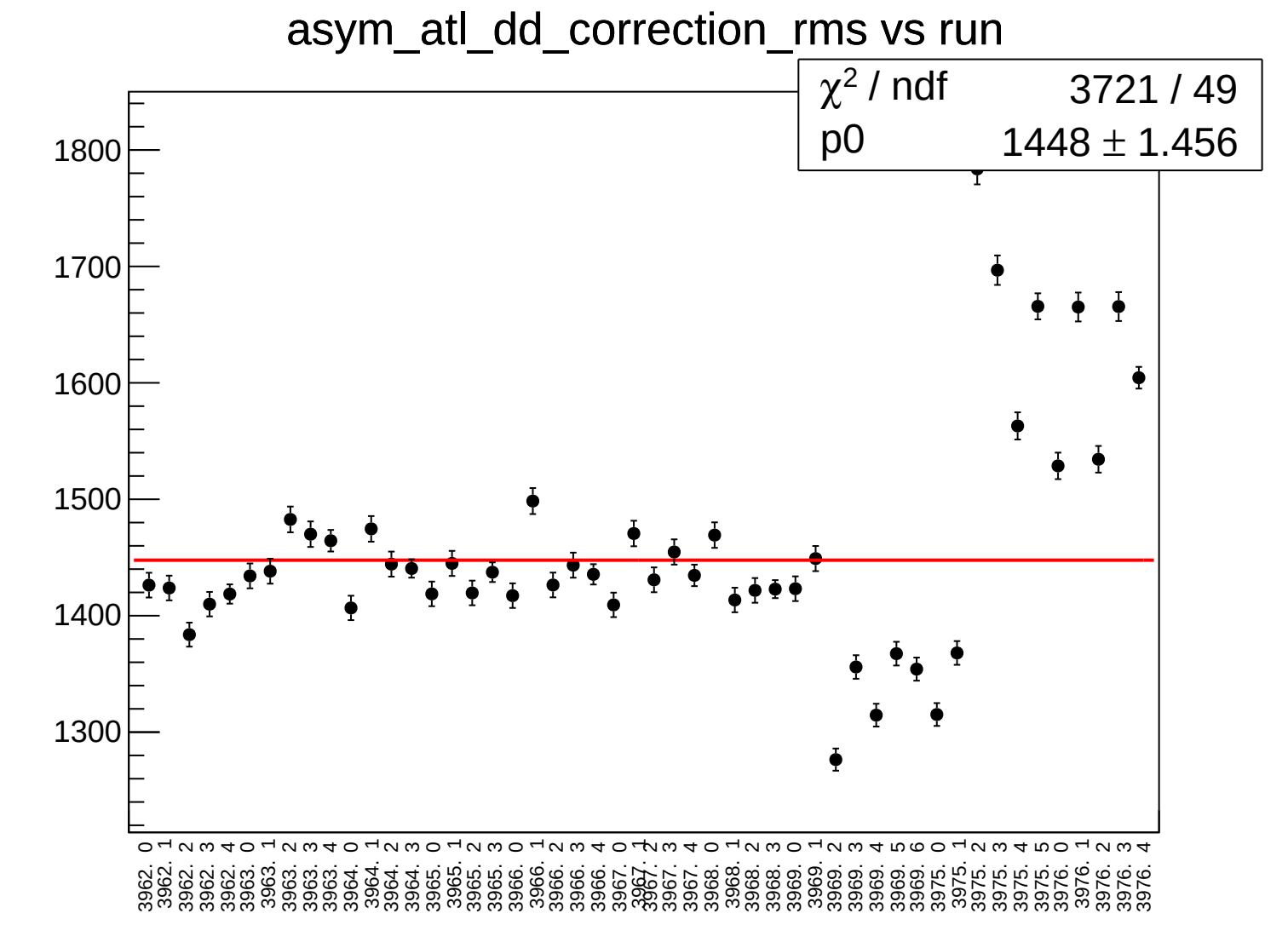

reg_asym_atl_dd_mean vs run
χ² / ndf 44.91 / 49
p0 −751.2 ± 478
×10³
100
50
0
−50
−100
pull
Entries 50
Mean 50.7
Std Dev 28.59
2
1.5
1
0.5
0
−0.5
−1
−1.5

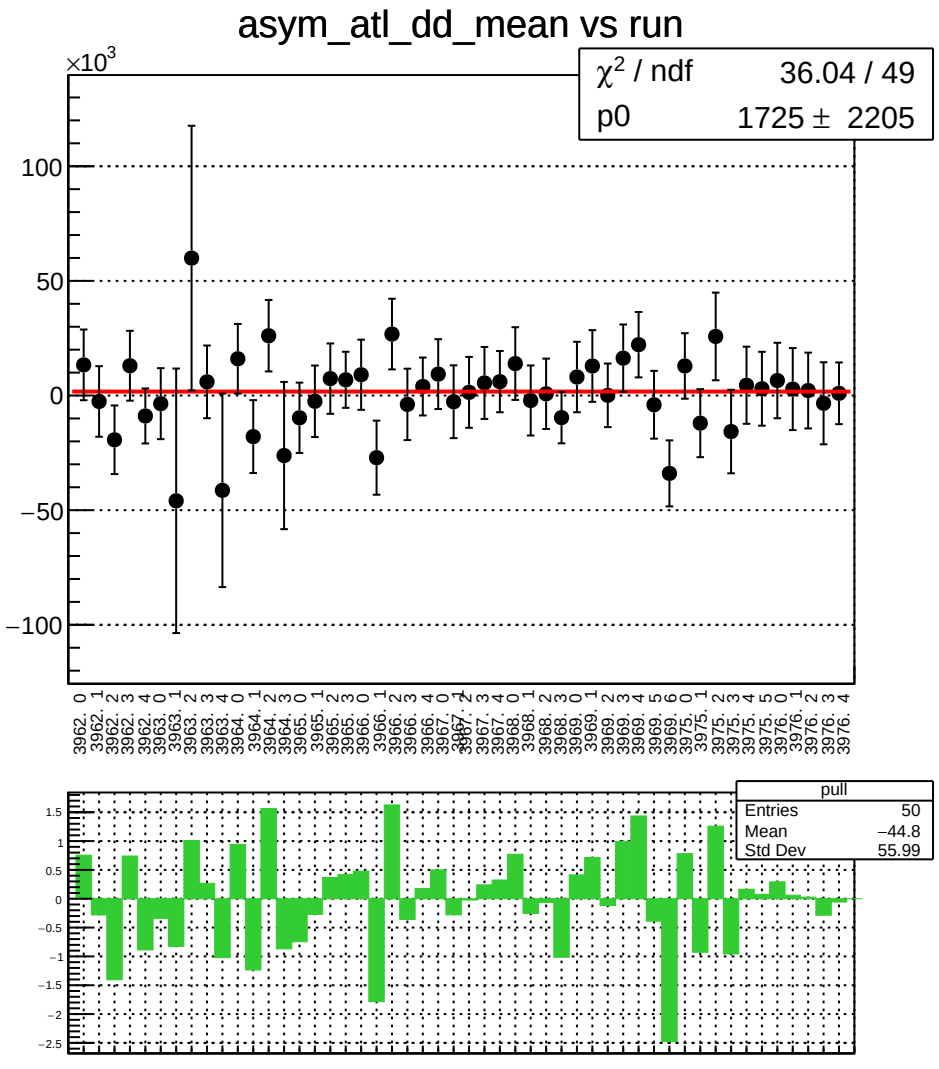

pull1D
Entries 50
Mean −0.03014
Std Dev 0.9473
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

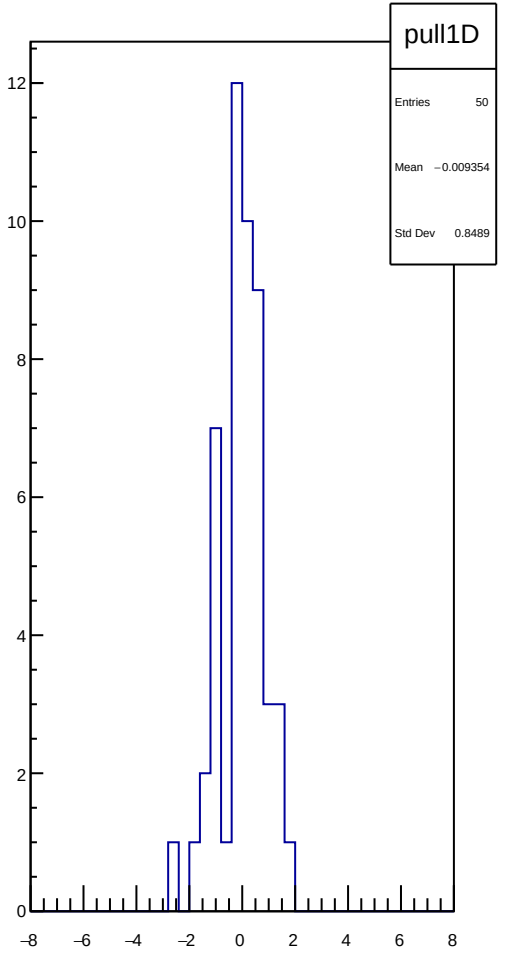

reg_asym_atl_dd_rms vs run
χ² / ndf 8.15e+04 / 49
p0 322.6 ± 0.338
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

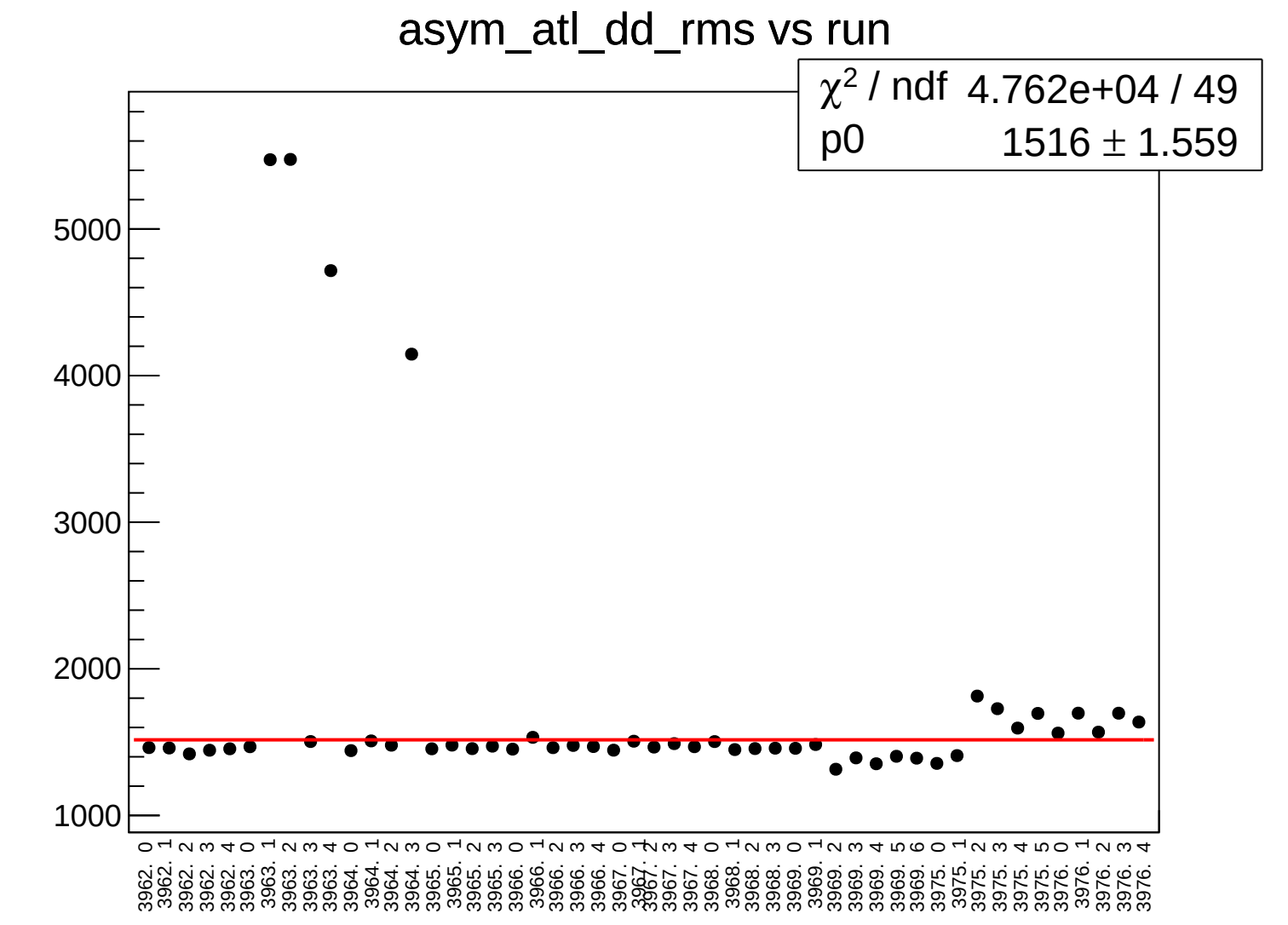

asym_atl_dd_correction_mean vs run
χ² / ndf 36.46 / 49
p0 −2886 ± 2059
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 64.3
Std Dev 58.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

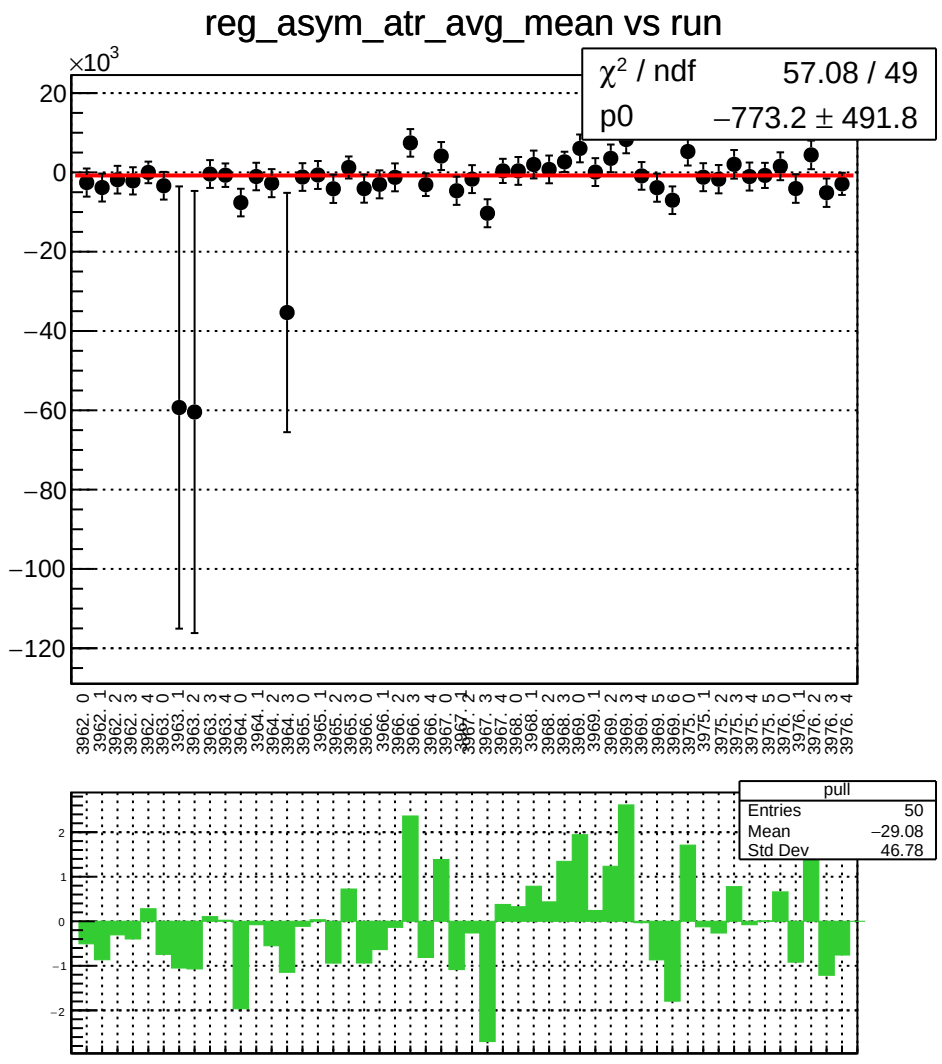

pull1D
Entries 50
Mean −0.007912
Std Dev 0.8539
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

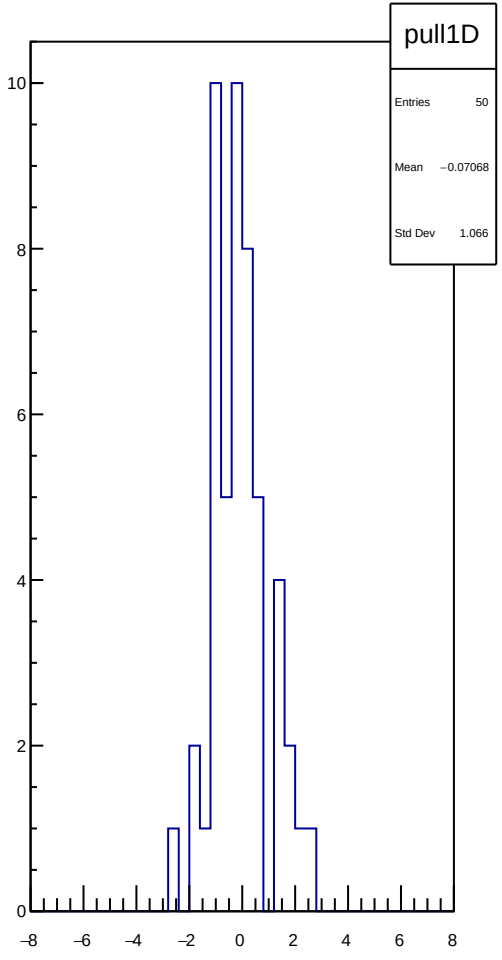

asym_atl_dd_correction_rms vs run
χ² / ndf 3721 / 49
p0 1448 ± 1.456
1800
1700
1600
1500
1400
1300
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

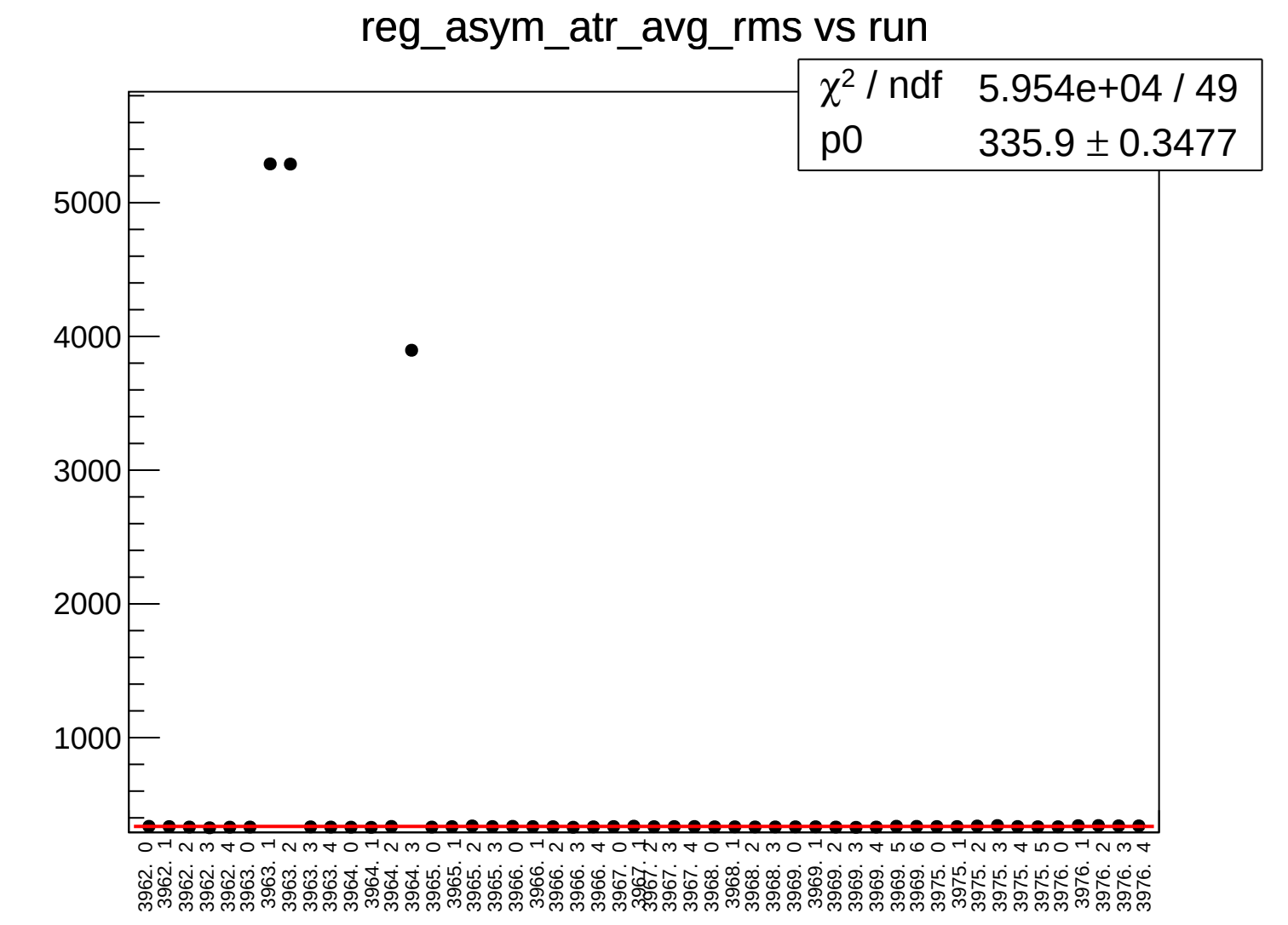

asym_atl_dd_mean vs run
×10^3
χ² / ndf 36.04 / 49
p0 1725 ± 2205
100
50
0
−50
−100
pull
Entries 50
Mean −44.8
Std Dev 55.99
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean −0.009354
Std Dev 0.8489
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_rms vs run
χ² / ndf 4.762e+04 / 49
p0 1516 ± 1.559
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 57.08 / 49
p0 −773.2 ± 491.8
pull
Entries 50
Mean −29.08
Std Dev 46.78


pull1D
Entries 50
Mean −0.07068
Std Dev 1.066


reg_asym_atr_avg_rms vs run
χ² / ndf 5.954e+04 / 49
p0 335.9 ± 0.3477
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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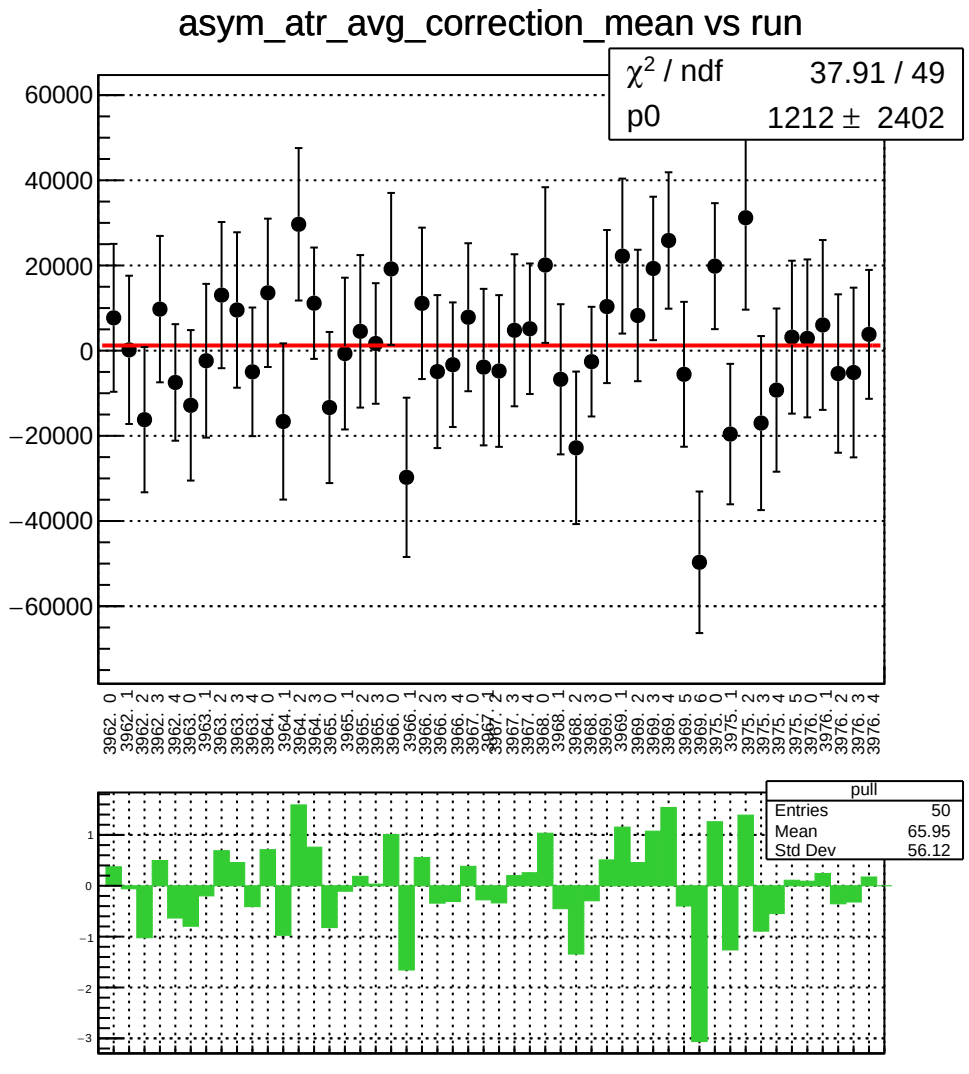
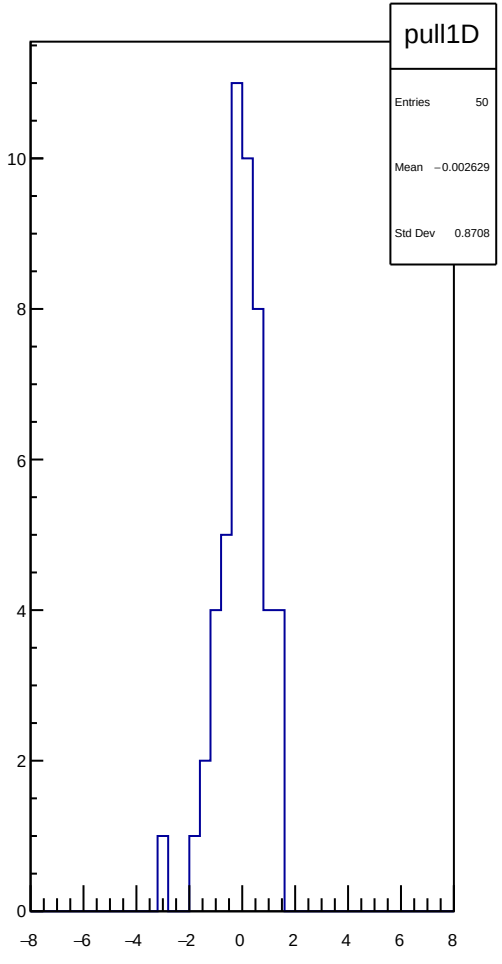
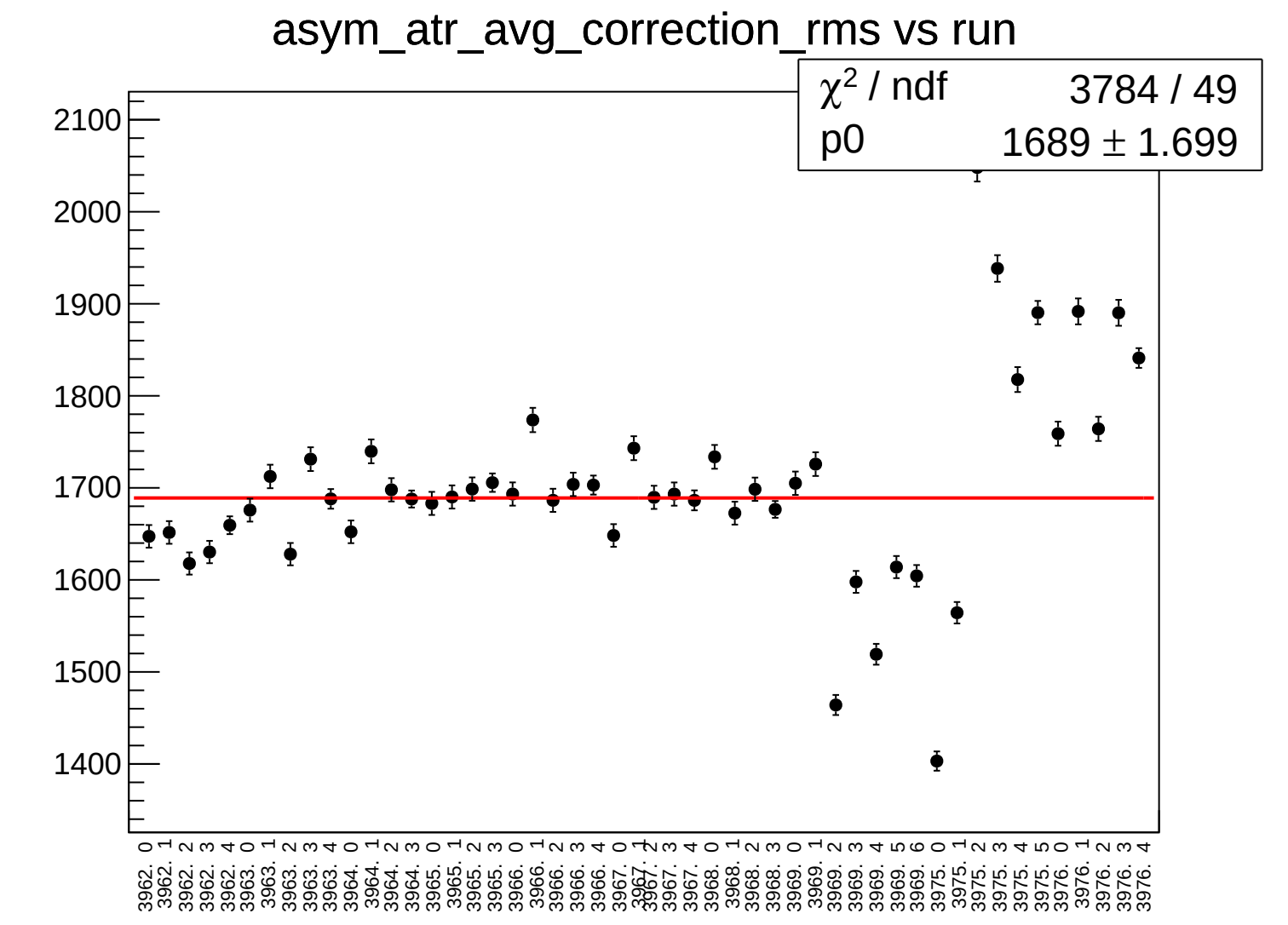
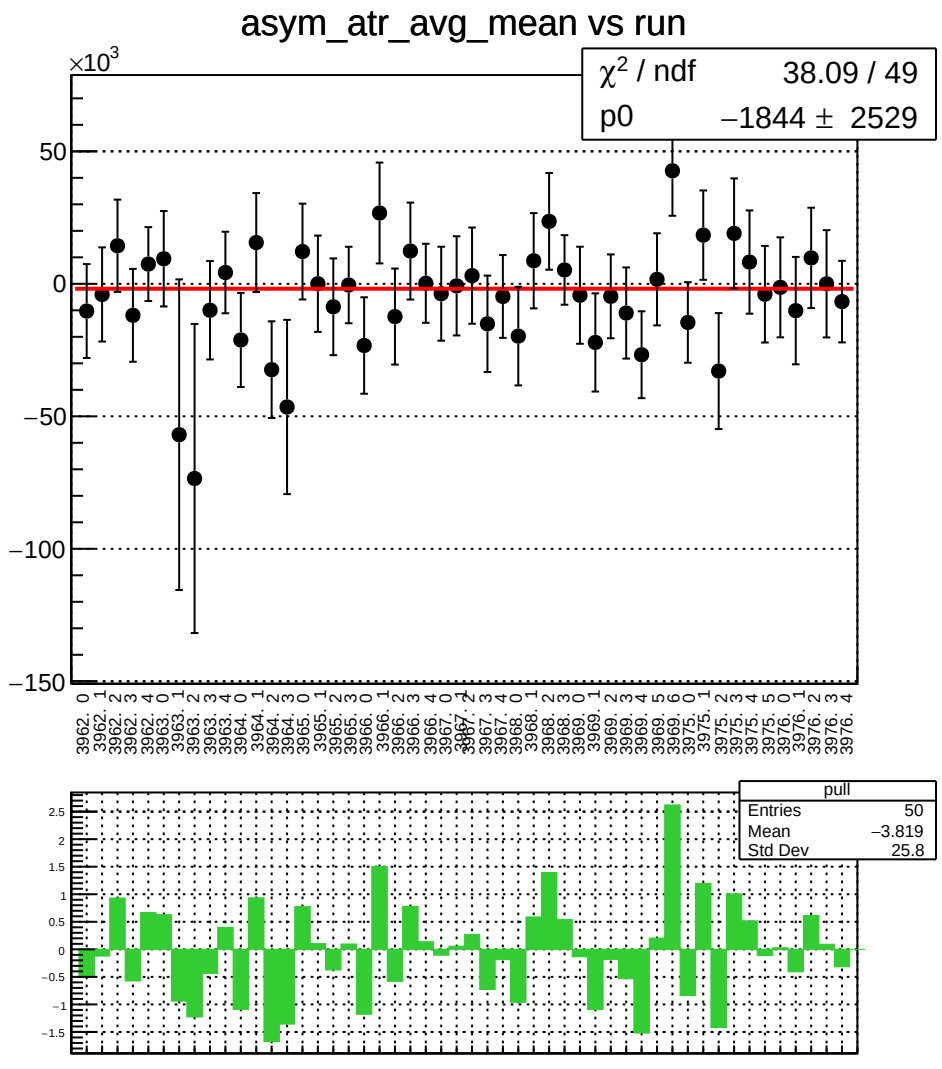
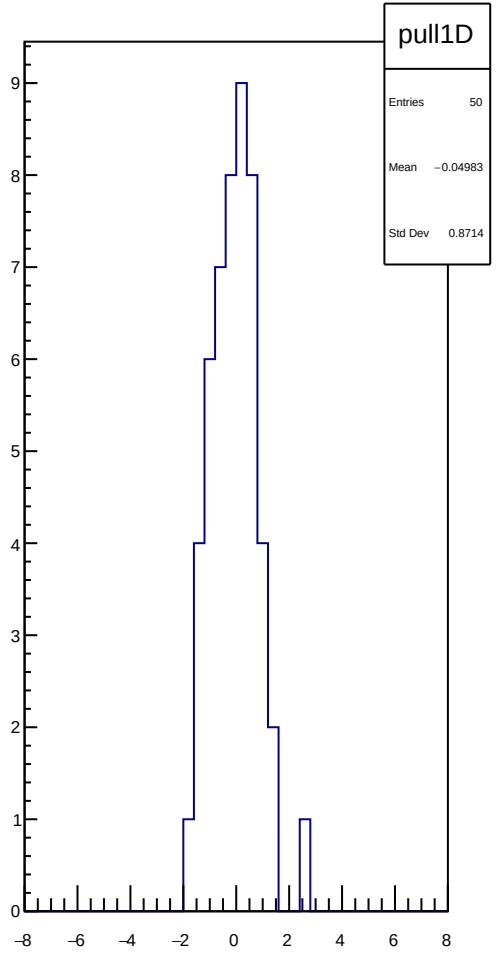
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

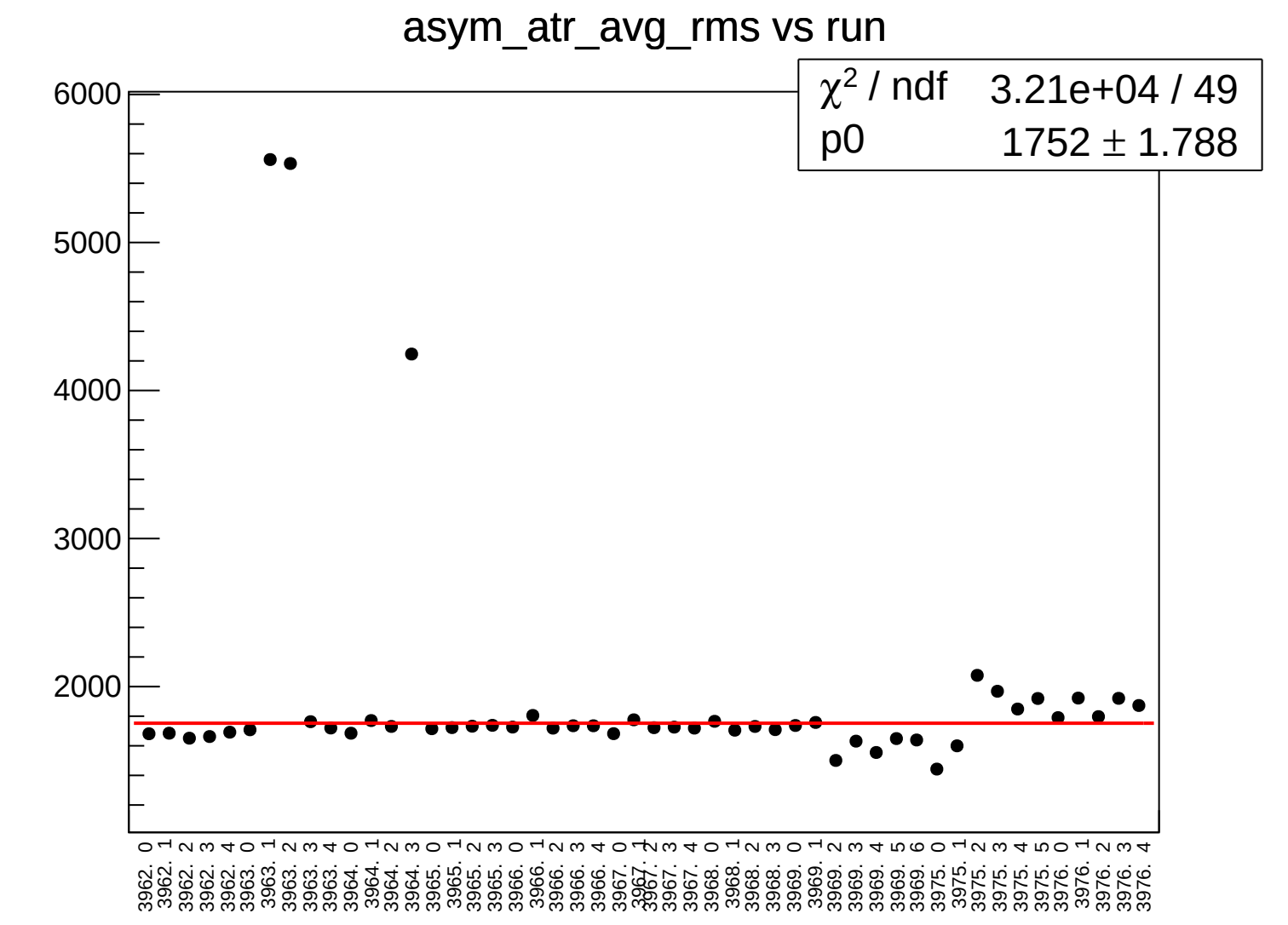

asym_atr_avg_correction_mean vs run
χ² / ndf 37.91 / 49
p0 1212 ± 2402
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 50
Mean 65.95
Std Dev 56.12
1
0
−1
−2
−3

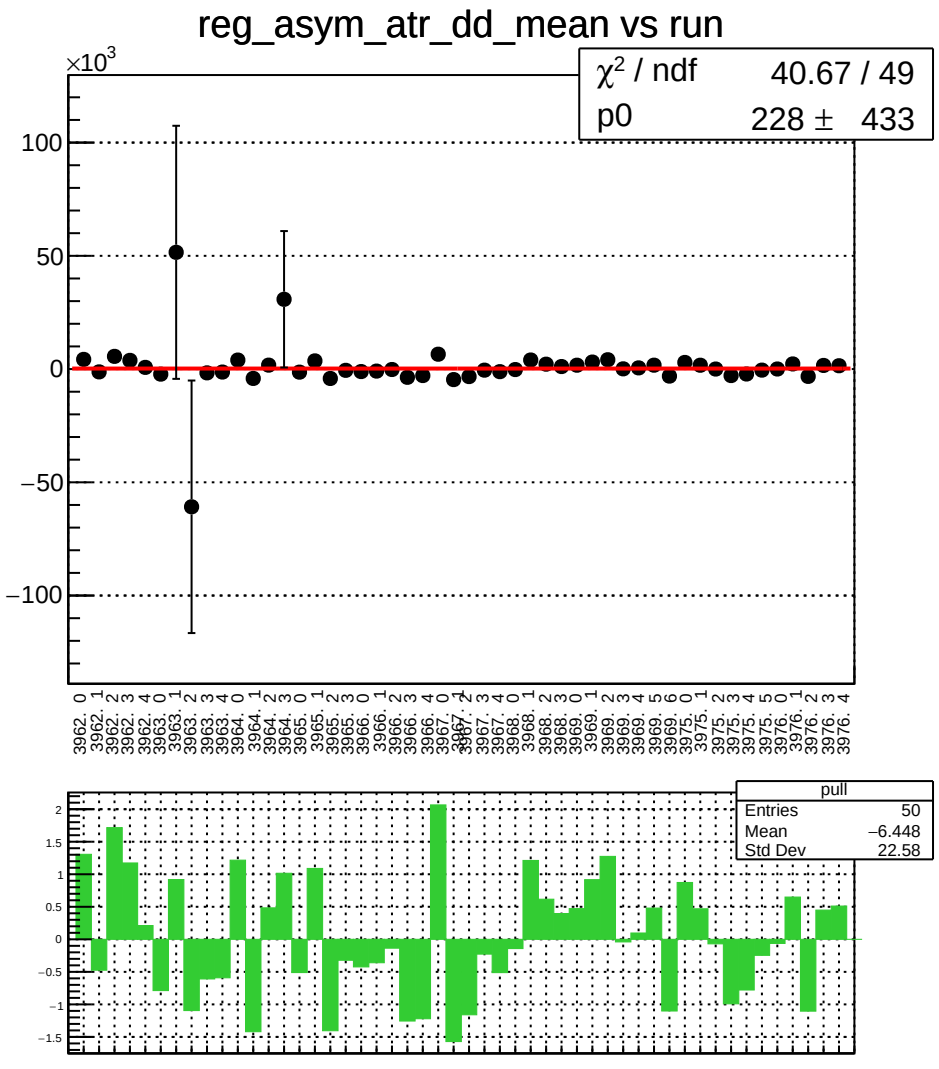

pull1D
Entries 50
Mean −0.002629
Std Dev 0.8708
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

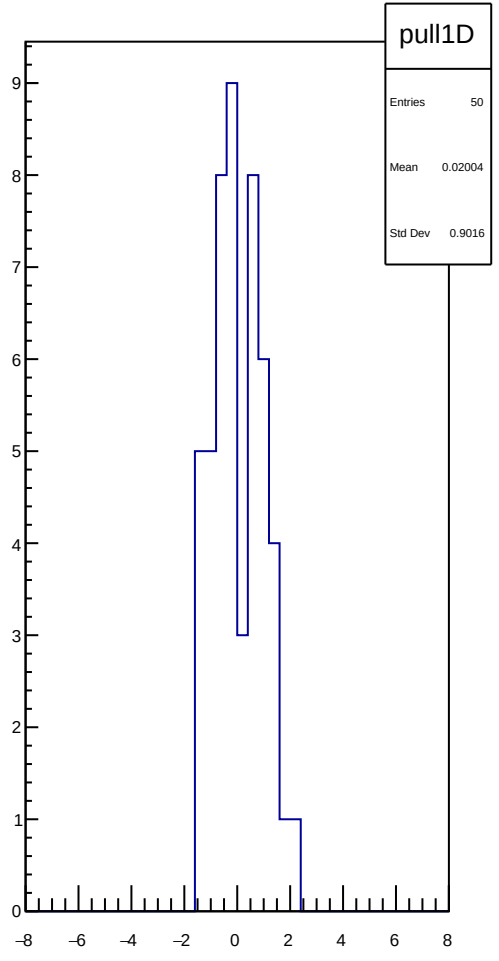

asym_atr_avg_correction_rms vs run
χ² / ndf 3784 / 49
p0 1689 ± 1.699
2100
2000
1900
1800
1700
1600
1500
1400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

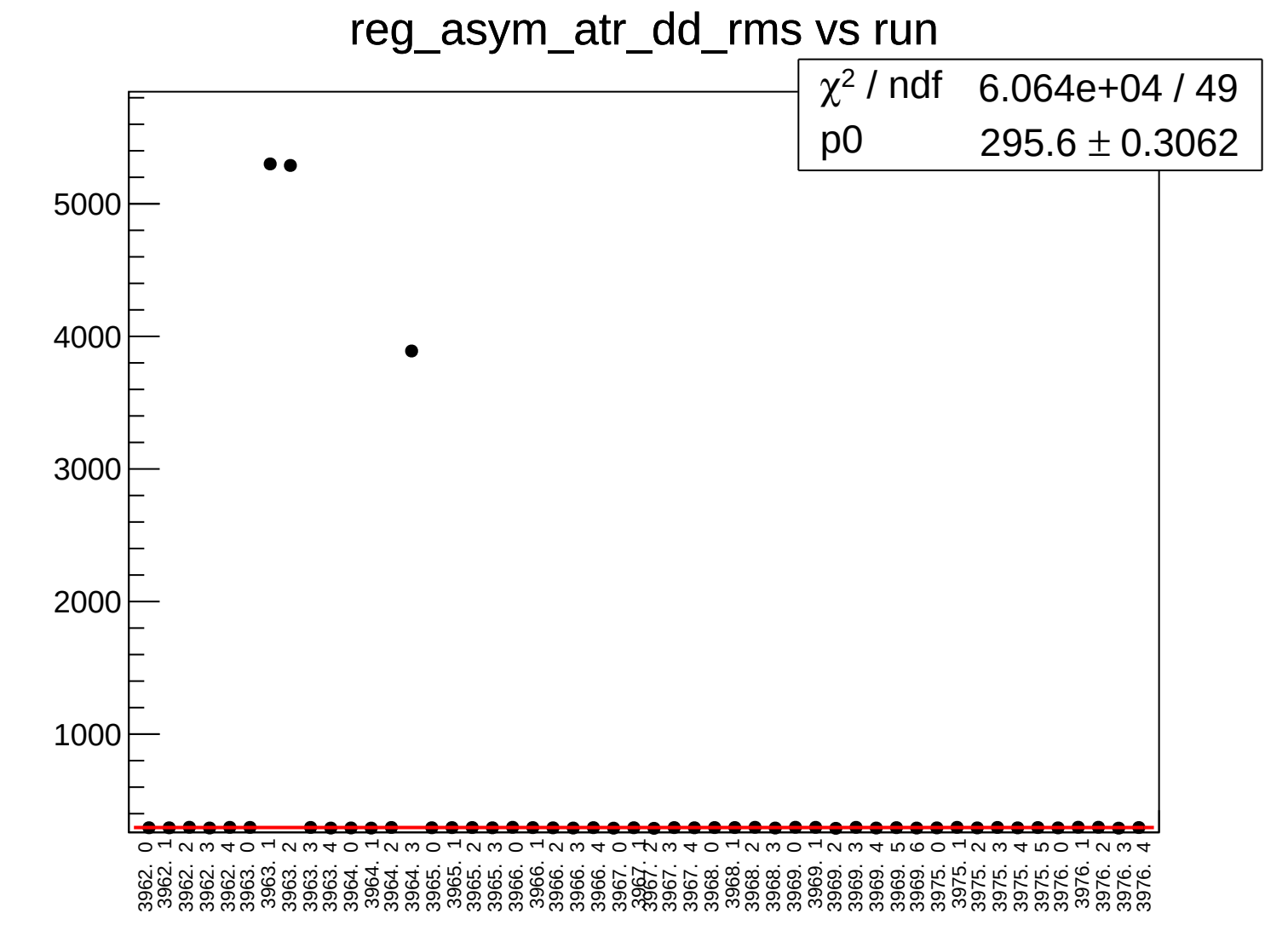

asym_atr_avg_mean vs run
×10^3
χ² / ndf 38.09 / 49
p0 −1844 ± 2529
50
0
−50
−100
−150
pull
Entries 50
Mean −3.819
Std Dev 25.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

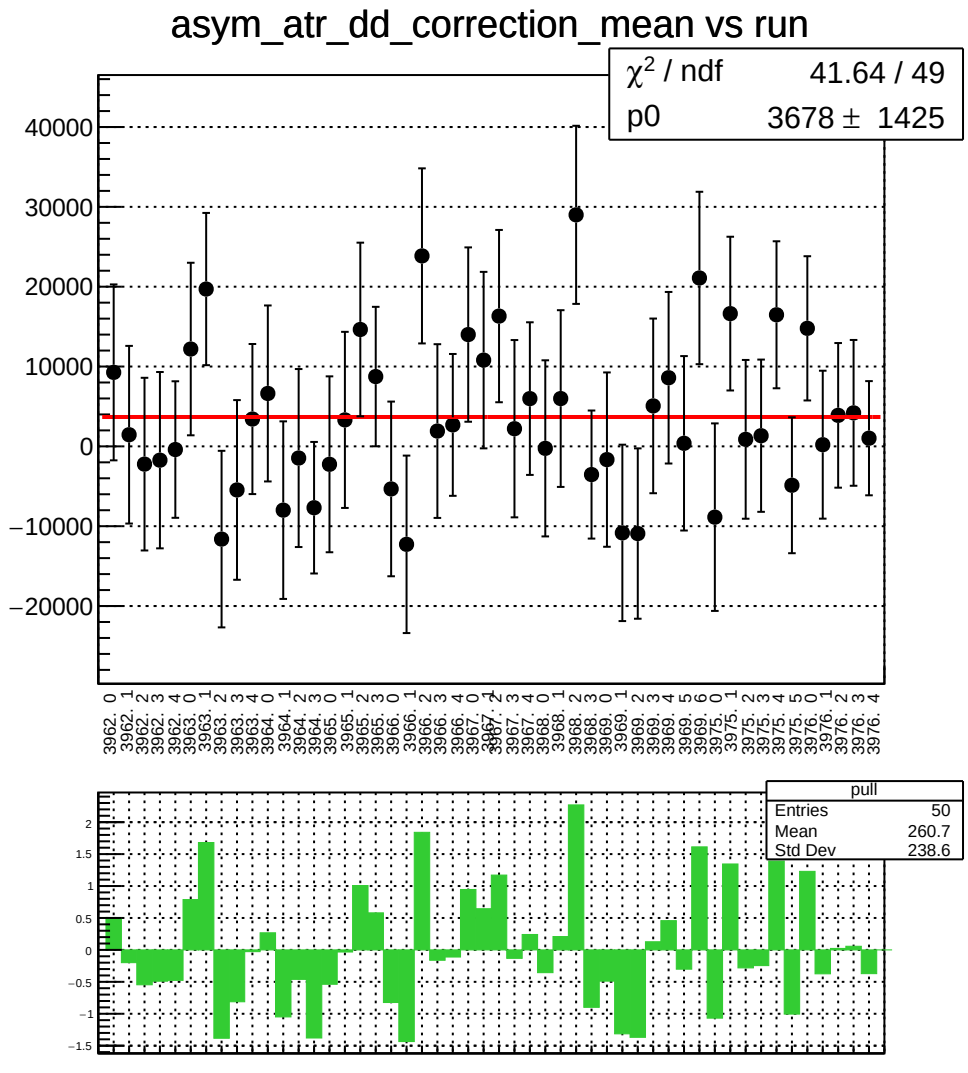

pull1D
Entries 50
Mean −0.04983
Std Dev 0.8714
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

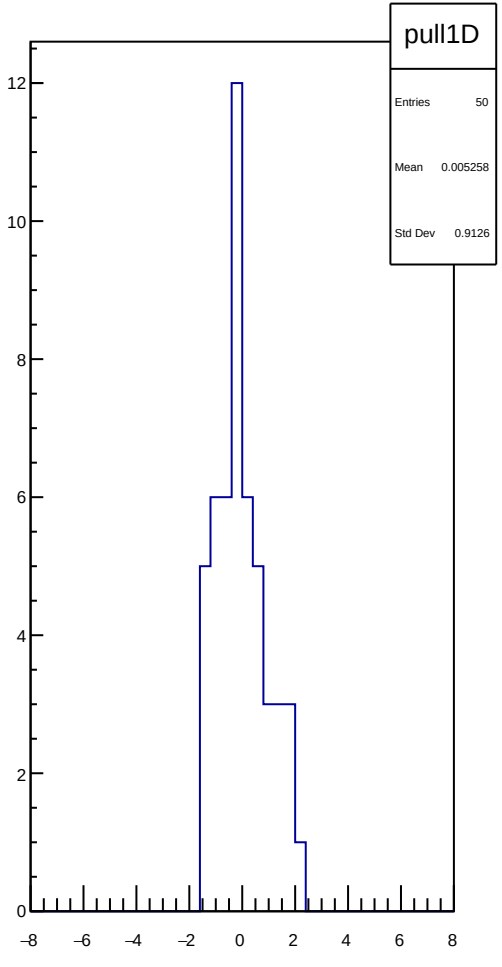

asym_atr_avg_rms vs run
χ² / ndf 3.21e+04 / 49
p0 1752 ± 1.788
6000
5000
4000
3000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

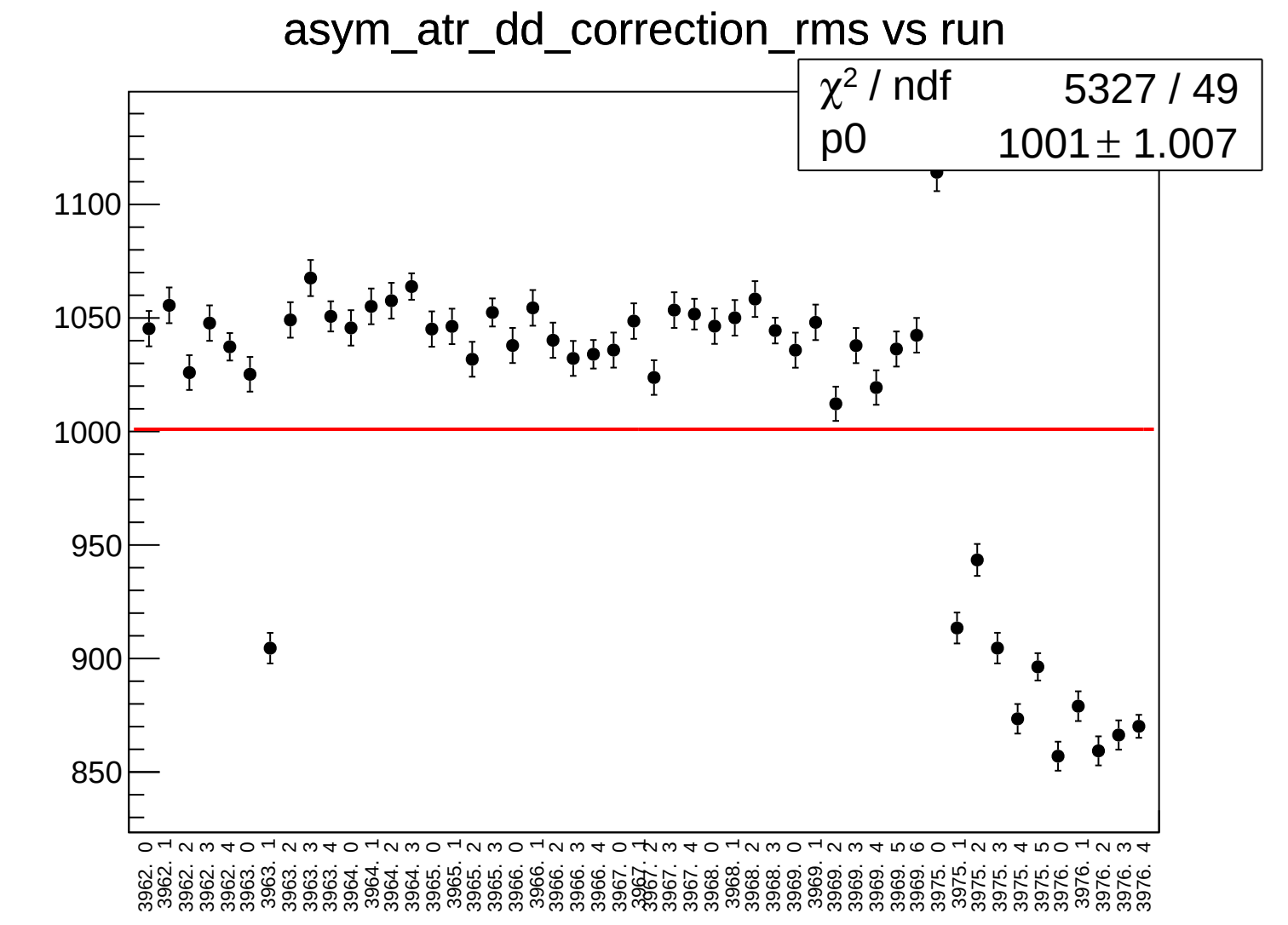

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 40.67 / 49
p0 228 ± 433
100
50
0
−50
−100
pull
Entries 50
Mean −6.448
Std Dev 22.58
2
1.5
1
0.5
0
−0.5
−1
−1.5

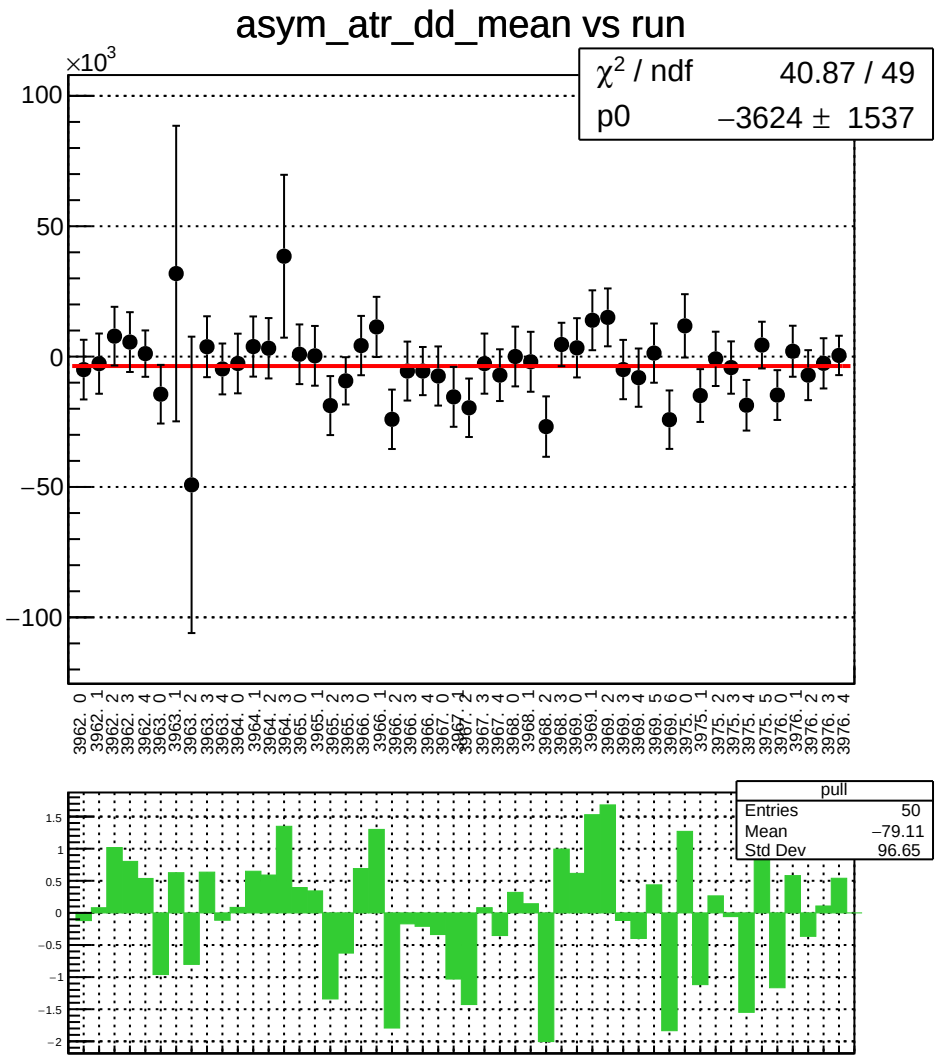

pull1D
Entries 50
Mean 0.02004
Std Dev 0.9016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

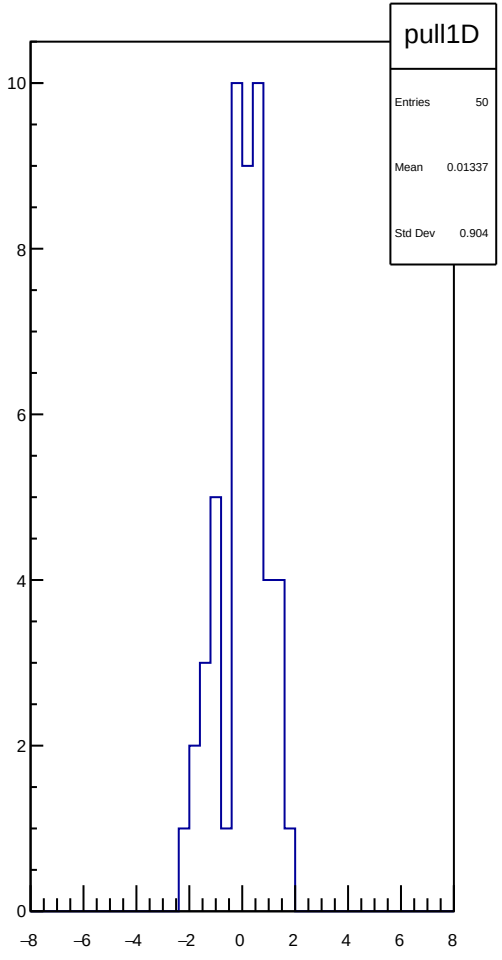

reg_asym_atr_dd_rms vs run
χ² / ndf 6.064e+04 / 49
p0 295.6 ± 0.3062
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

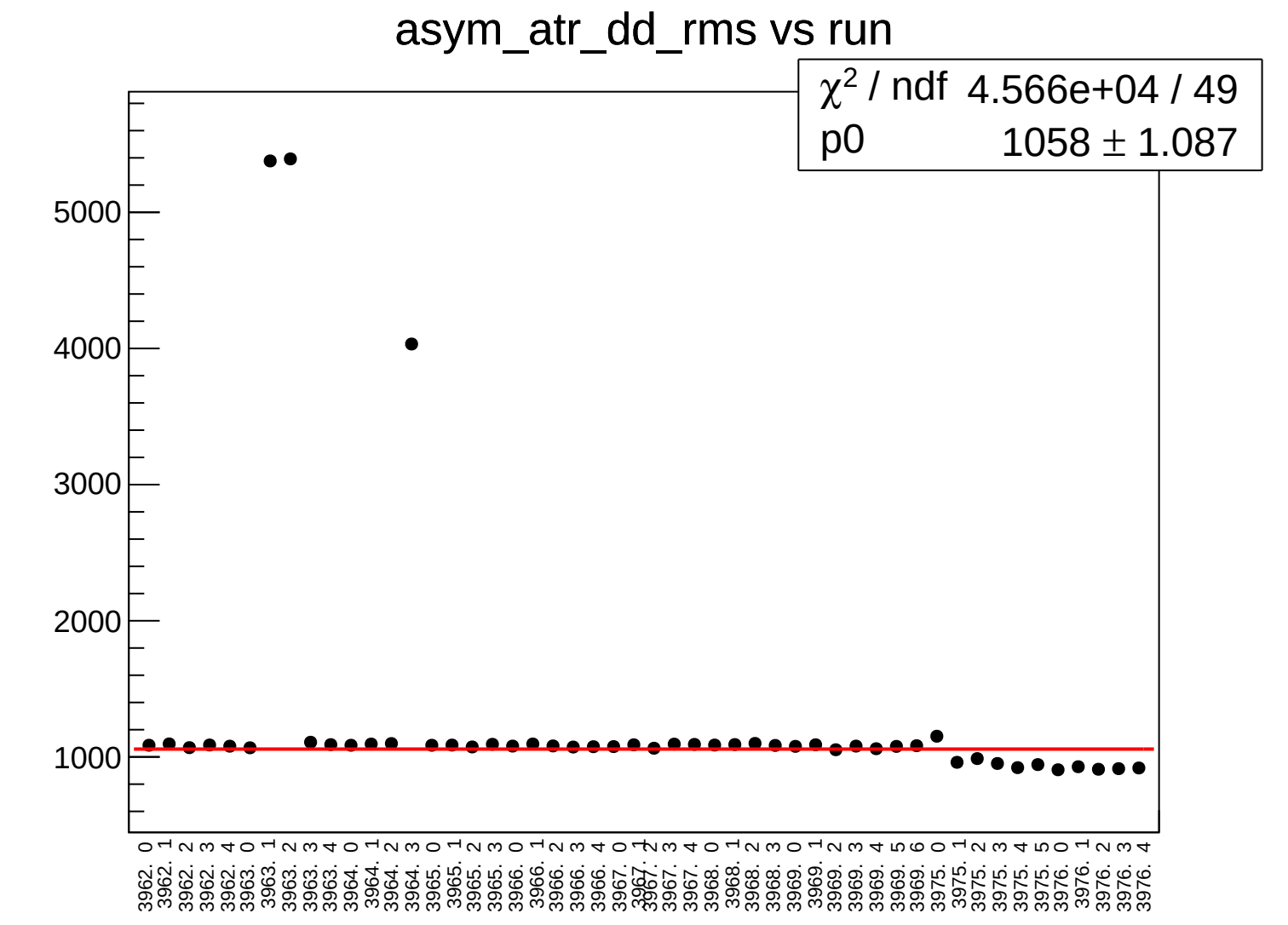

asym_atr_dd_correction_mean vs run
χ² / ndf 41.64 / 49
p0 3678 ± 1425
pull
Entries 50
Mean 260.7
Std Dev 238.6

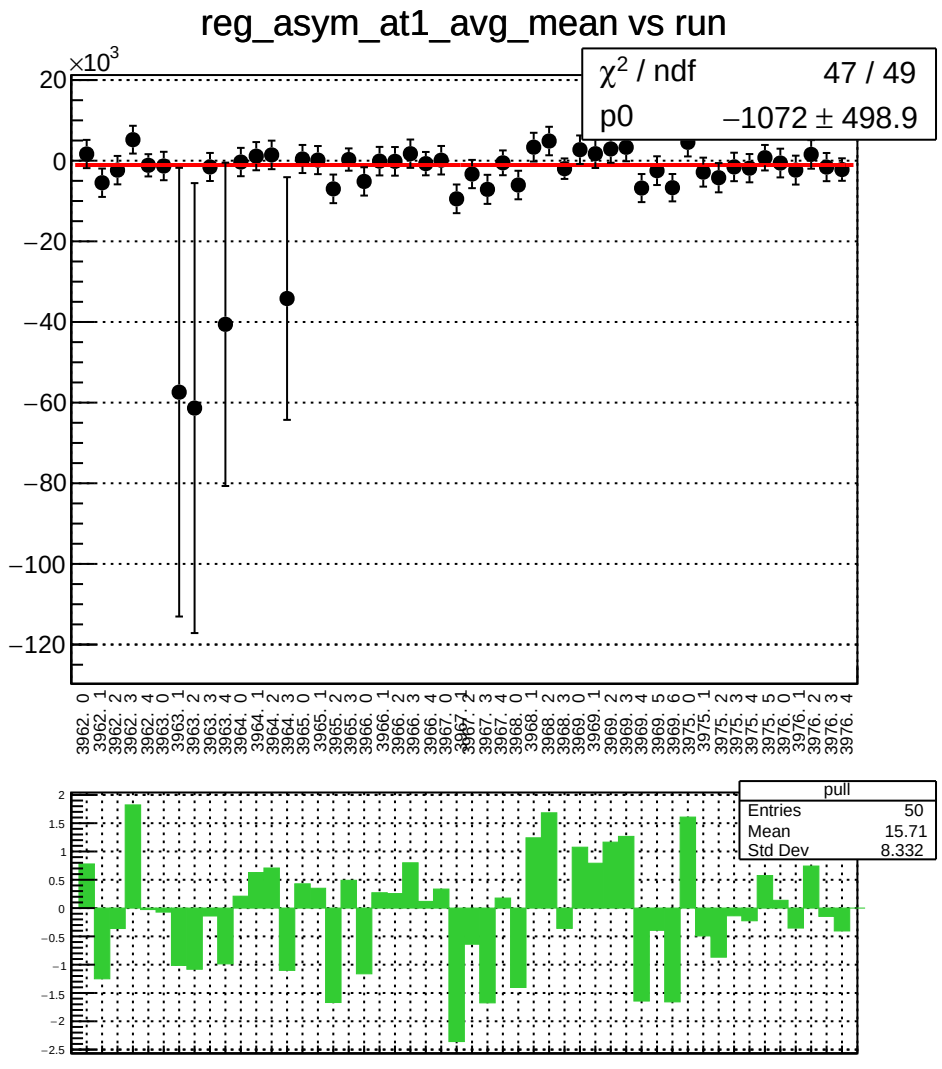

pull1D
Entries 50
Mean 0.005258
Std Dev 0.9126

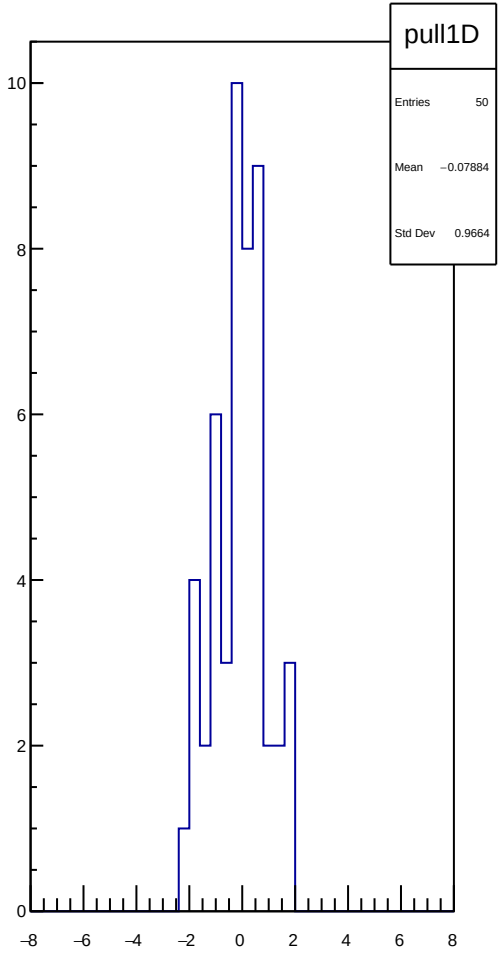

asym_atr_dd_correction_rms vs run
χ² / ndf 5327 / 49
p0 1001 ± 1.007
1100
1050
1000
950
900
850
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

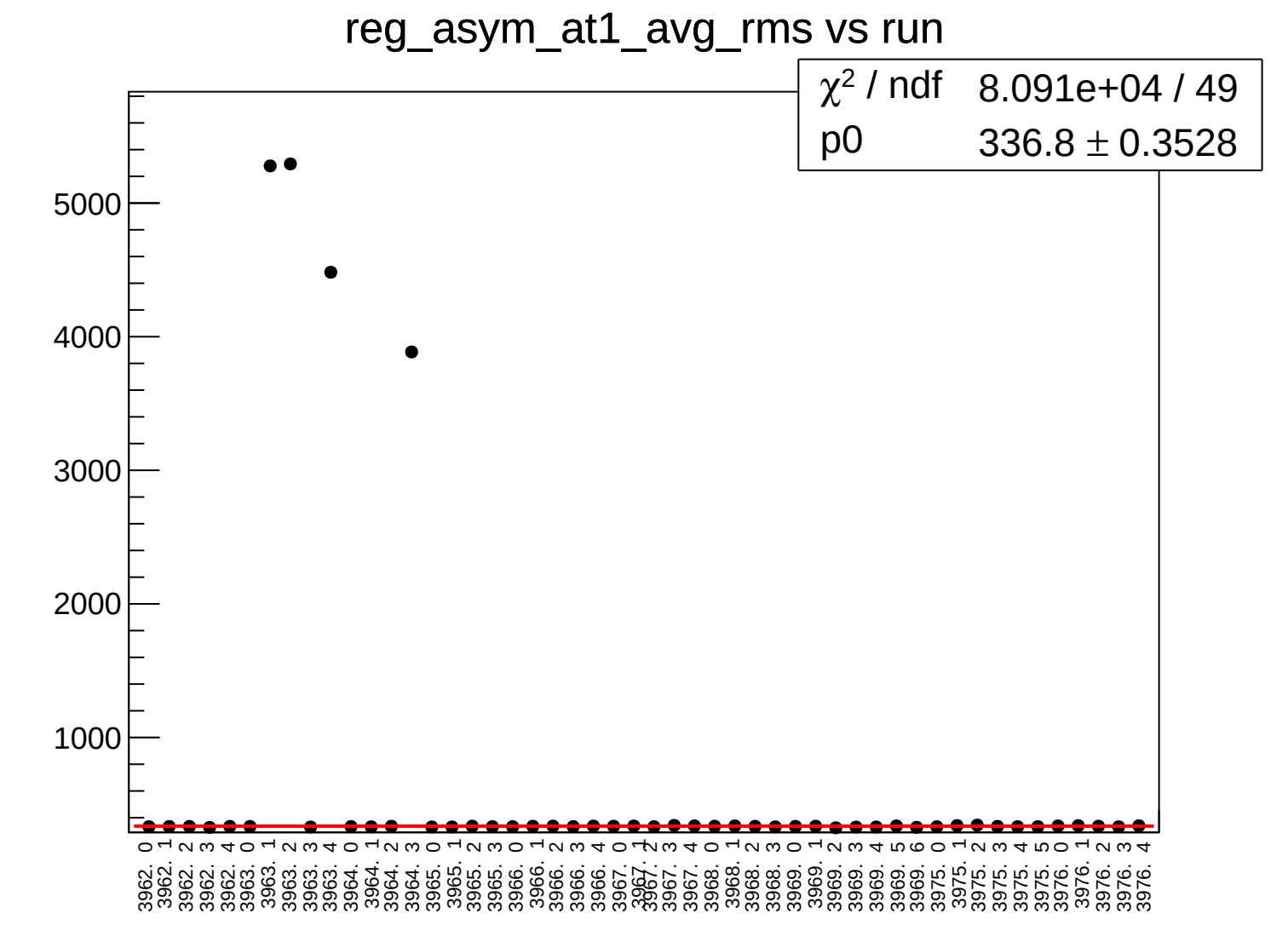

asym_atr_dd_mean vs run
×10^3
χ² / ndf 40.87 / 49
p0 −3624 ± 1537
100
50
0
−50
−100
pull
Entries 50
Mean −79.11
Std Dev 96.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2

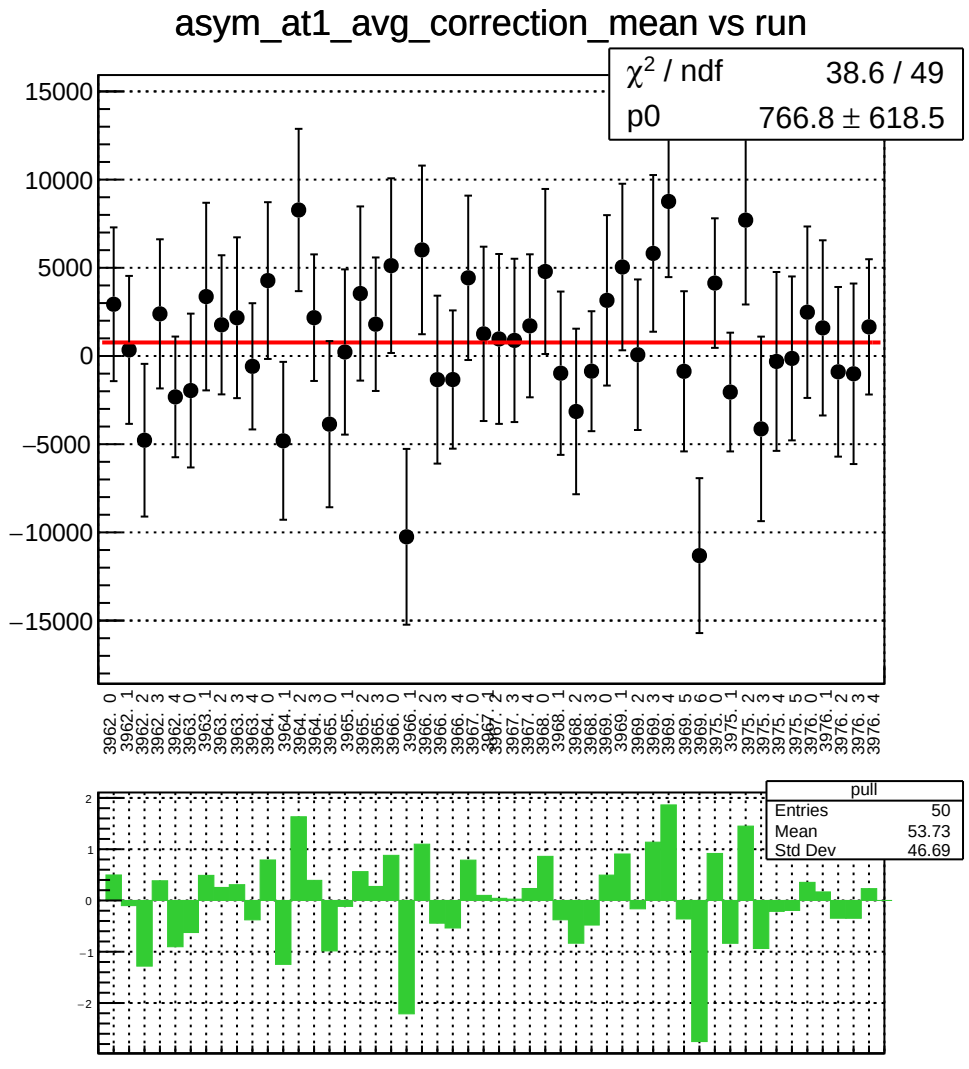

pull1D
Entries 50
Mean 0.01337
Std Dev 0.904
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

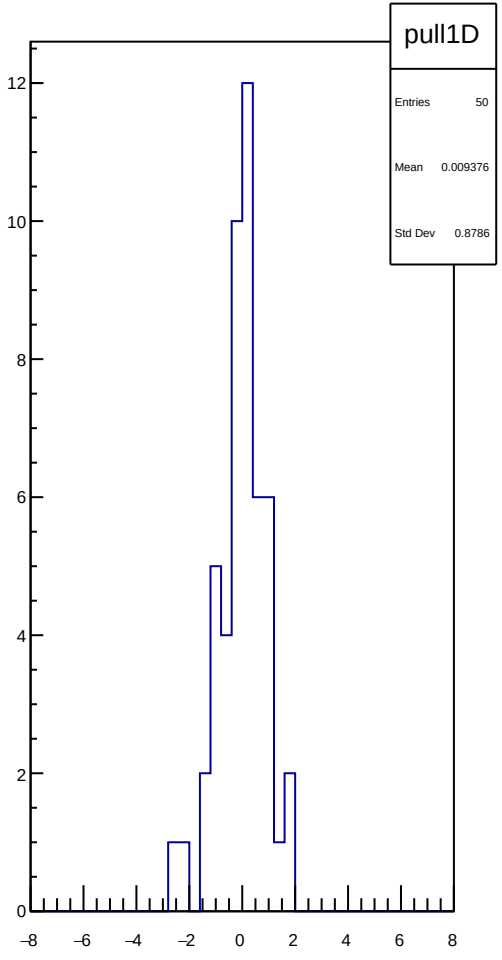

asym_atr_dd_rms vs run
χ^2 / ndf 4.566e+04 / 49
p0 1058 ± 1.087
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

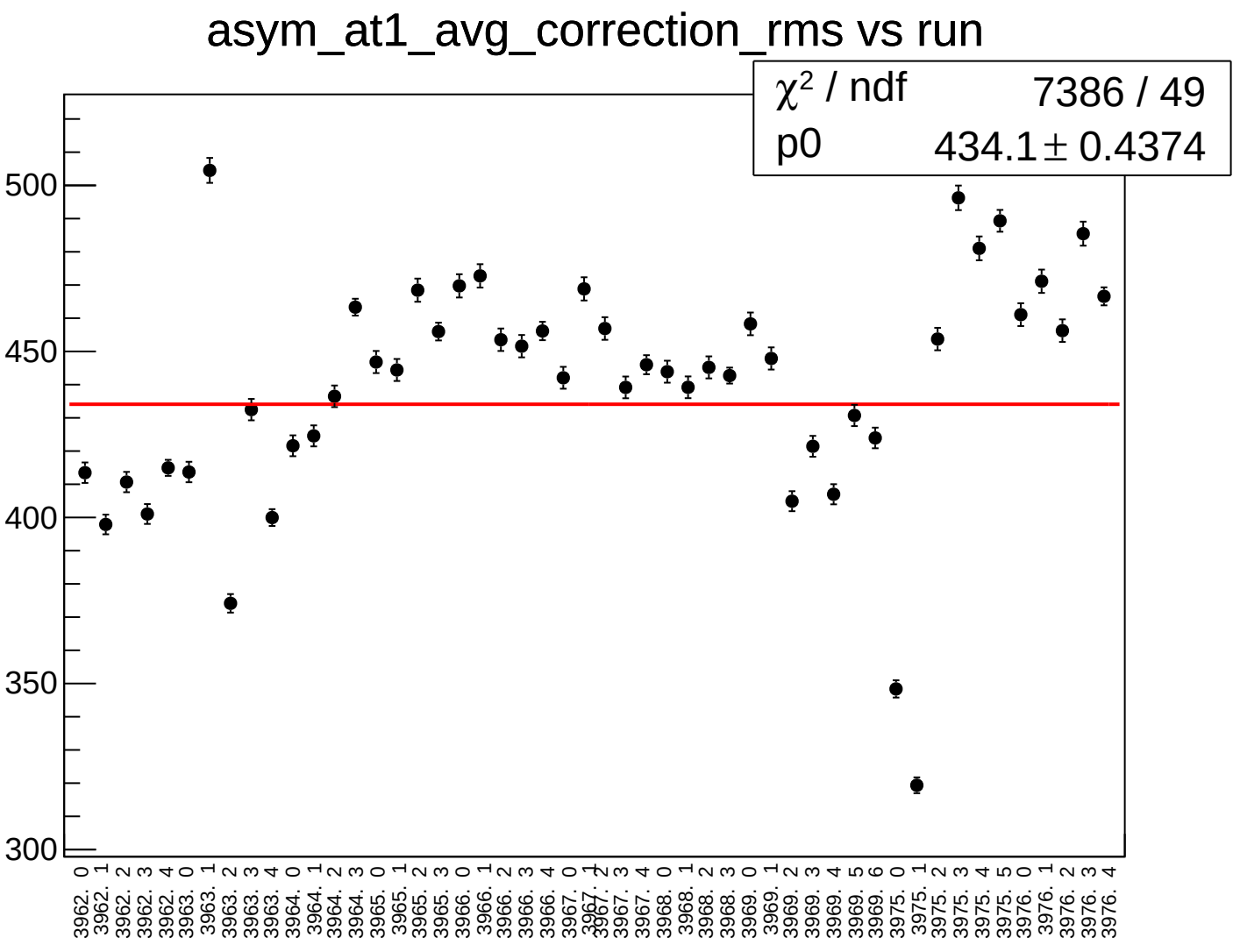

reg_asym_at1_avg_mean vs run
χ^2 / ndf 47 / 49
p0 −1072 ± 498.9
×10^3
pull
Entries 50
Mean 15.71
Std Dev 8.332


pull1D
Entries 50
Mean −0.07884
Std Dev 0.9664


reg_asym_at1_avg_rms vs run
χ² / ndf 8.091e+04 / 49
p0 336.8 ± 0.3528
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_at1_avg_correction_mean vs run
χ² / ndf 38.6 / 49
p0 766.8 ± 618.5
15000
10000
5000
0
−5000
−10000
−15000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3964. 4
3965. 0
3965. 1
3965. 2
3965. 3
3965. 4
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3968. 4
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 53.73
Std Dev 46.69
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.009376
Std Dev 0.8786
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_correction_rms vs run
χ² / ndf 7386 / 49
p0 434.1 ± 0.4374
500
450
400
350
300
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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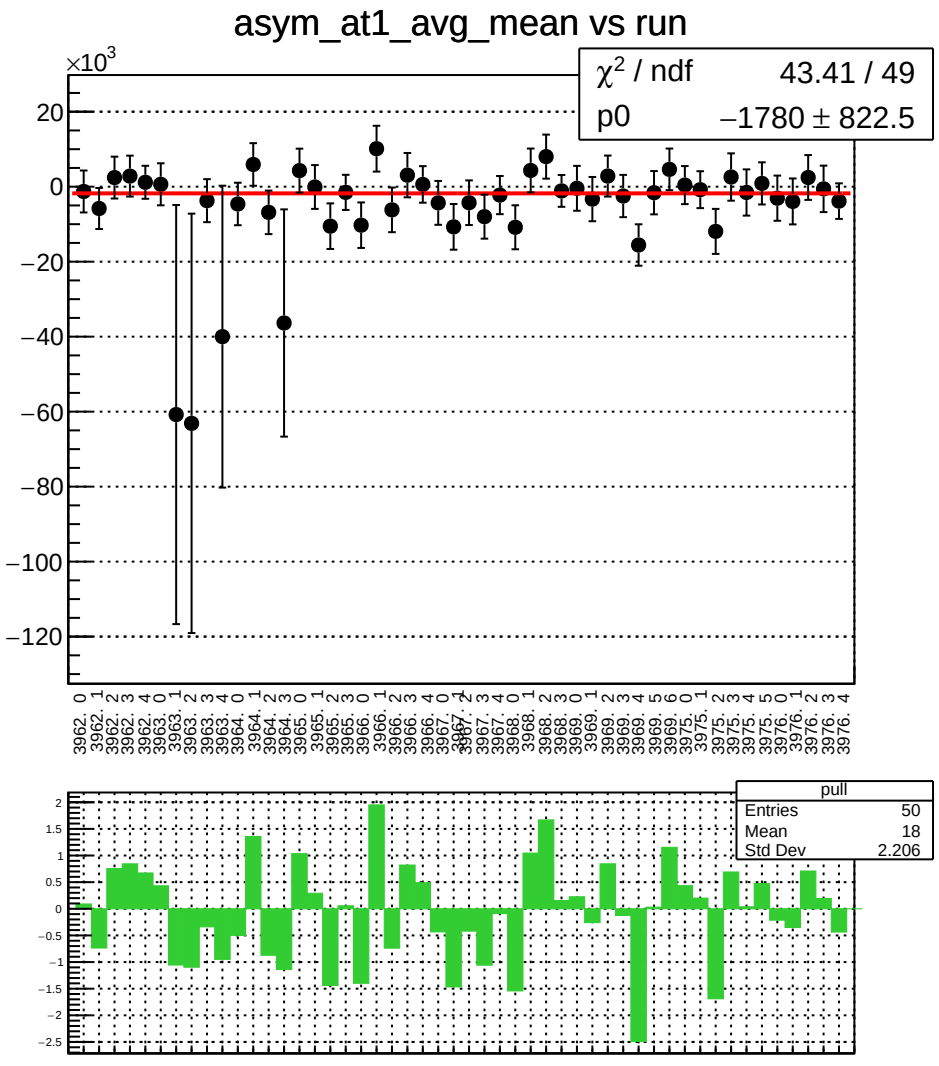
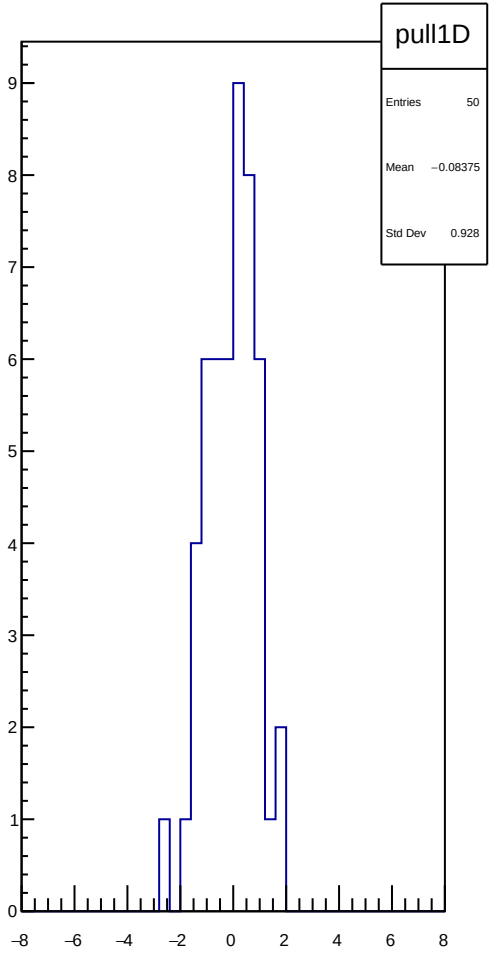
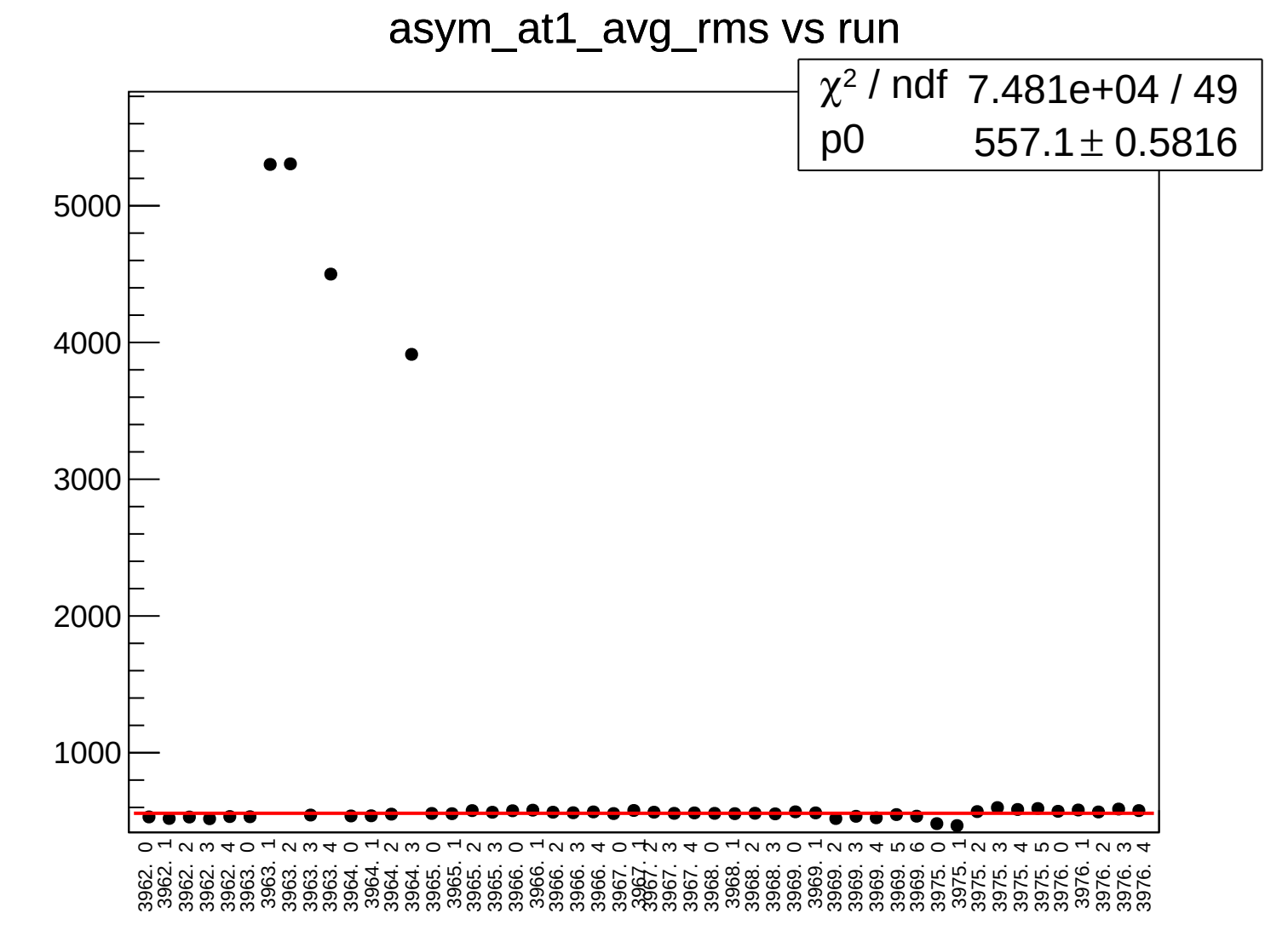
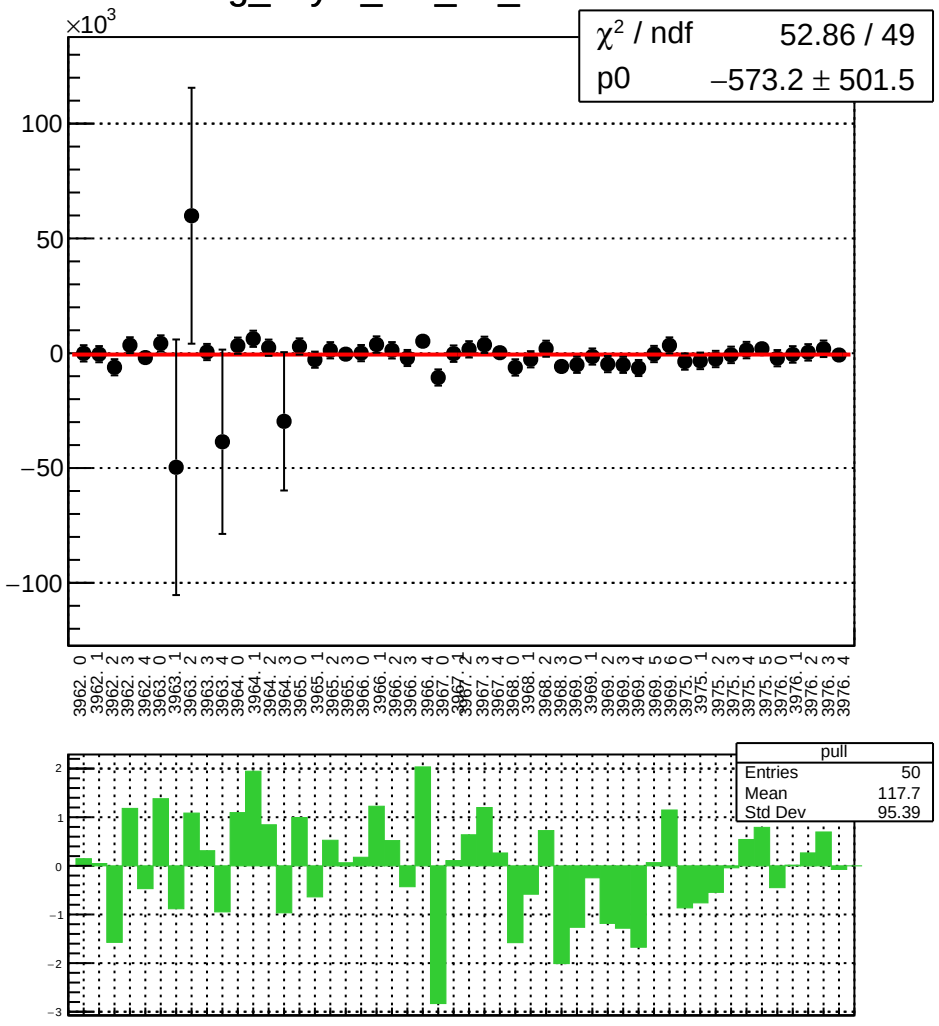
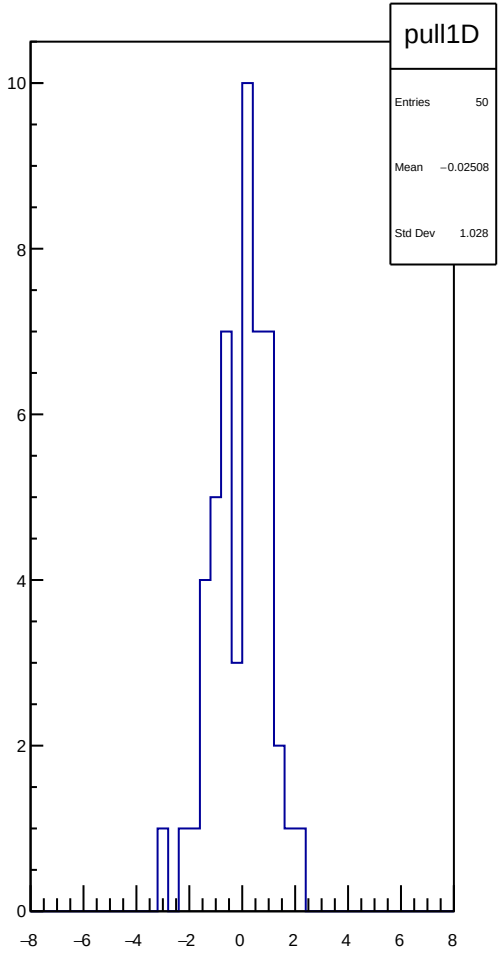
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

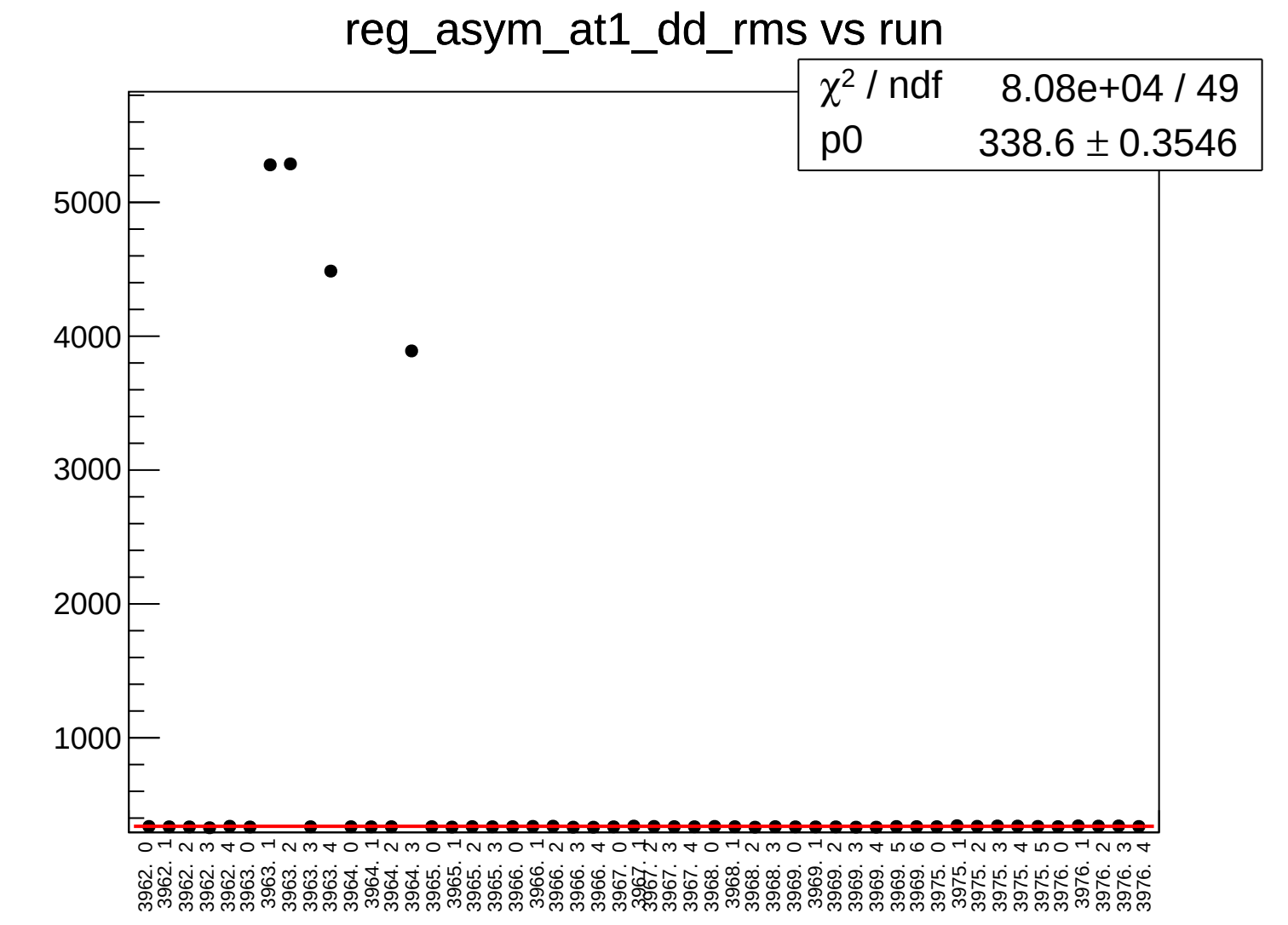

asym_at1_avg_mean vs run
×10^3
χ² / ndf 43.41 / 49
p0 −1780 ± 822.5
pull
Entries 50
Mean 18
Std Dev 2.206

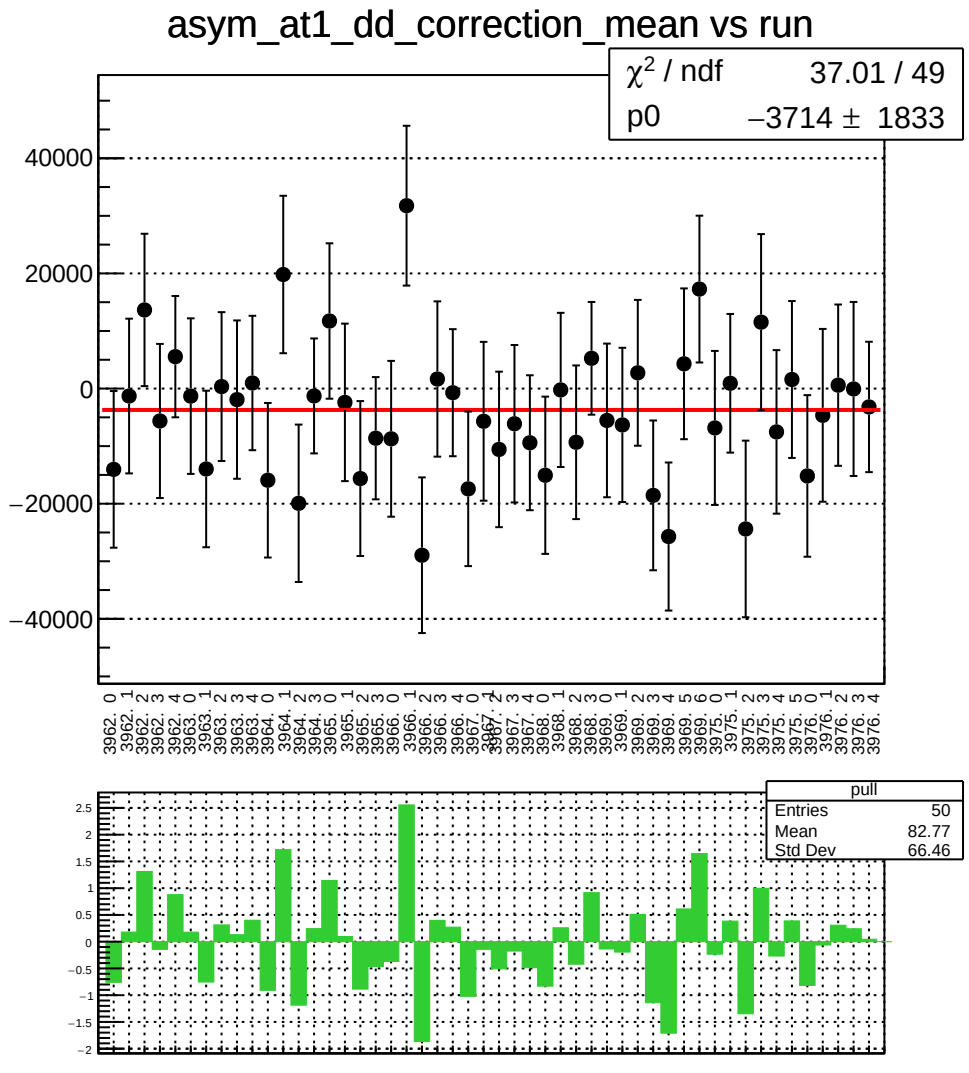

pull1D
Entries 50
Mean −0.08375
Std Dev 0.928

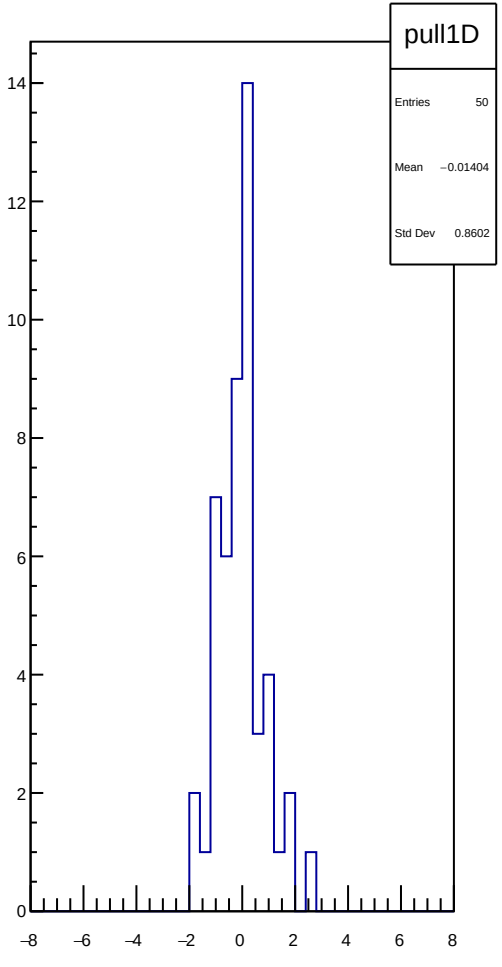

asym_at1_avg_rms vs run
χ² / ndf 7.481e+04 / 49
p0 557.1 ± 0.5816
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

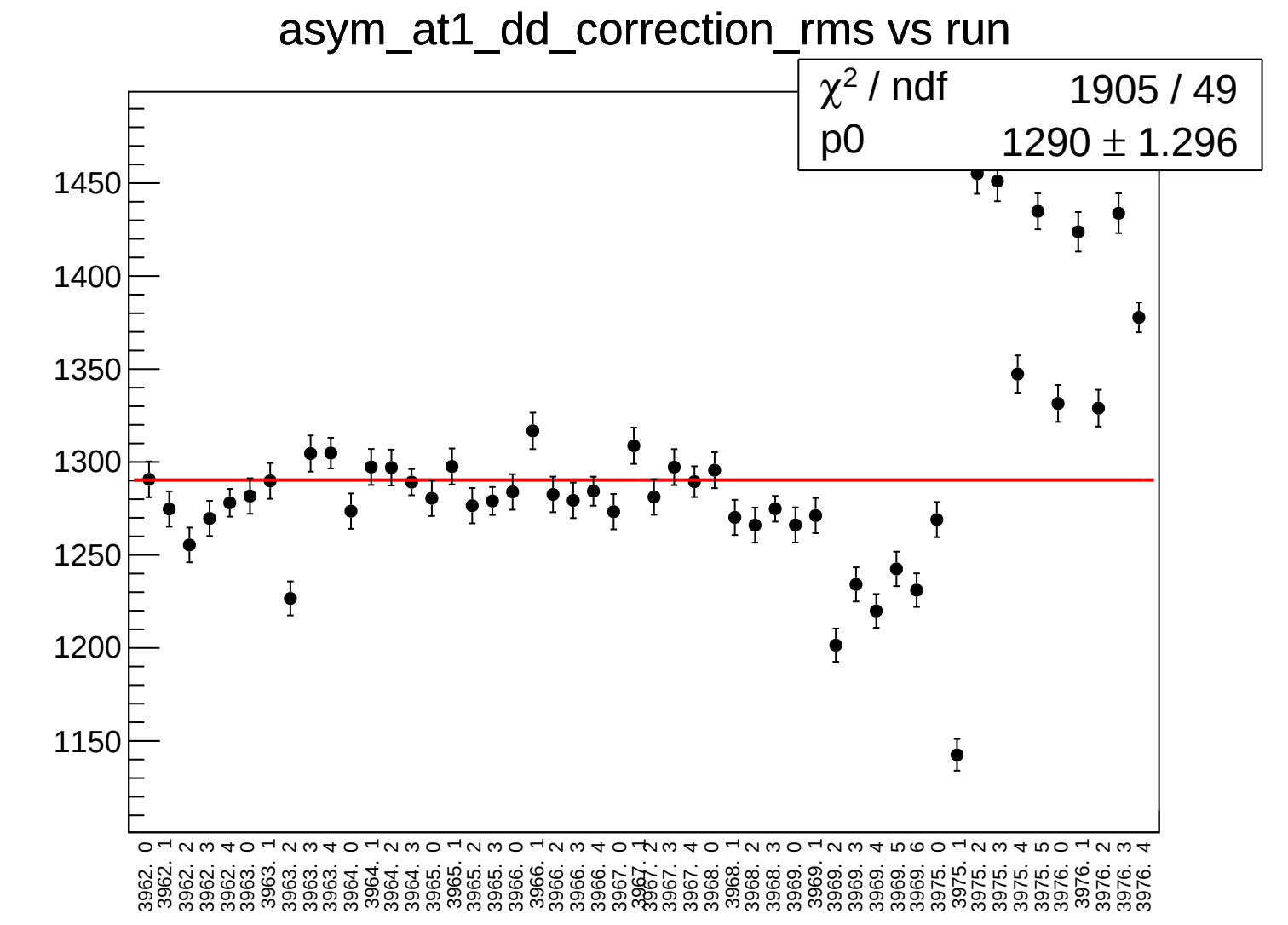

reg_asym_at1_dd_mean vs run
χ² / ndf 52.86 / 49
p0 −573.2 ± 501.5
×10³
100
50
0
−50
−100
pull
Entries 50
Mean 117.7
Std Dev 95.39
2
1
0
−1
−2
−3

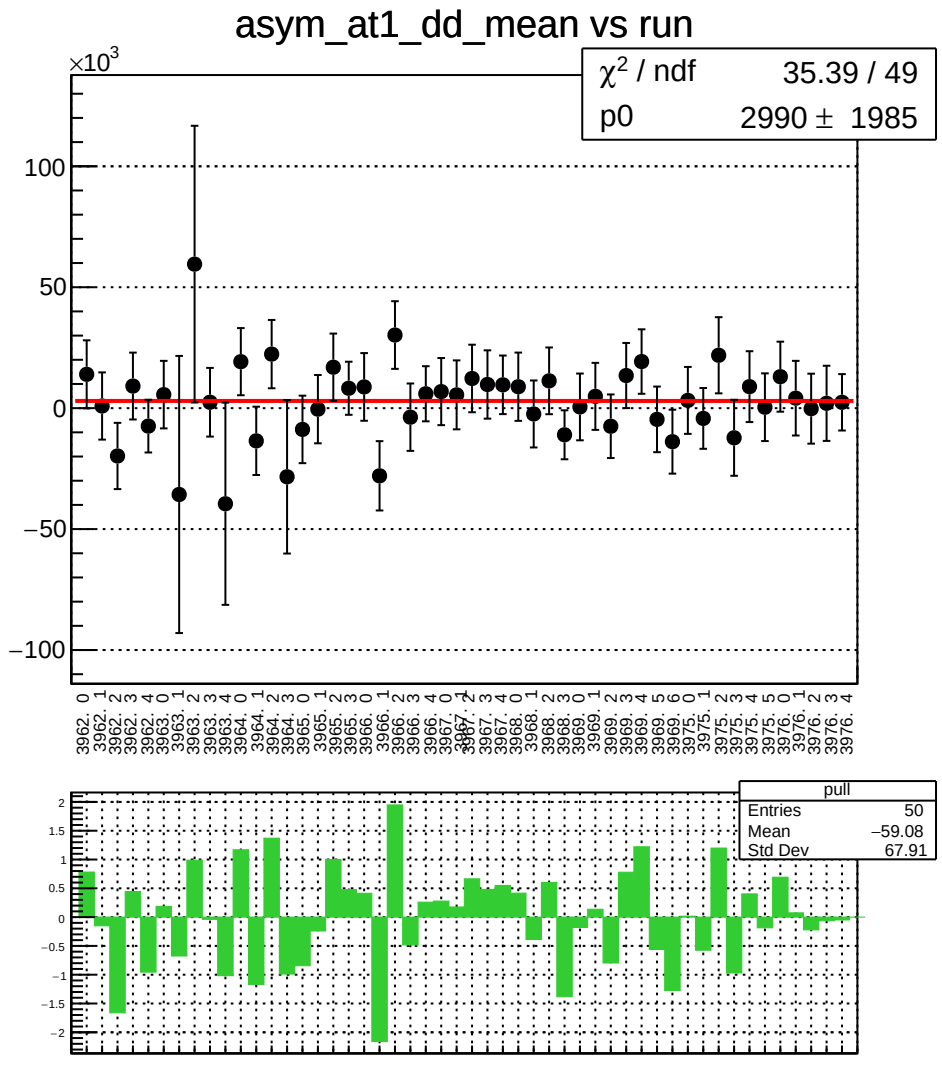

pull1D
Entries 50
Mean −0.02508
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

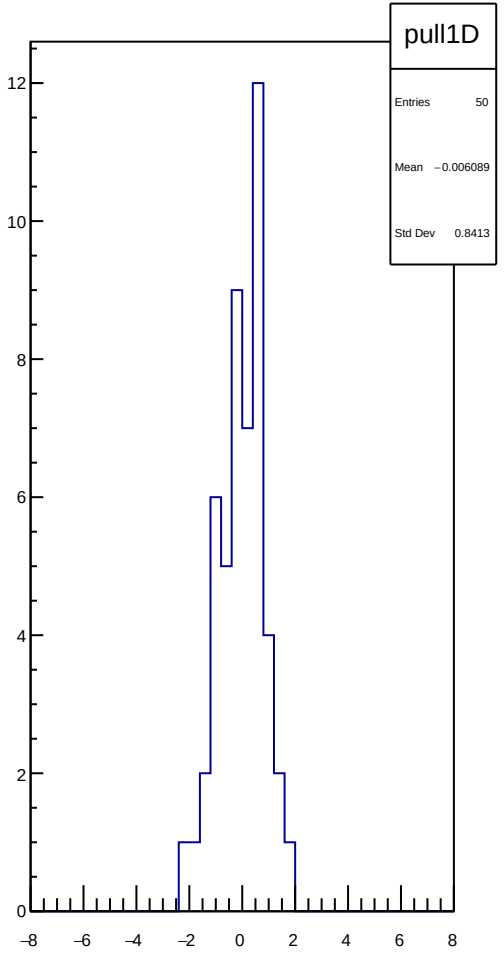

reg_asym_at1_dd_rms vs run
χ² / ndf 8.08e+04 / 49
p0 338.6 ± 0.3546
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

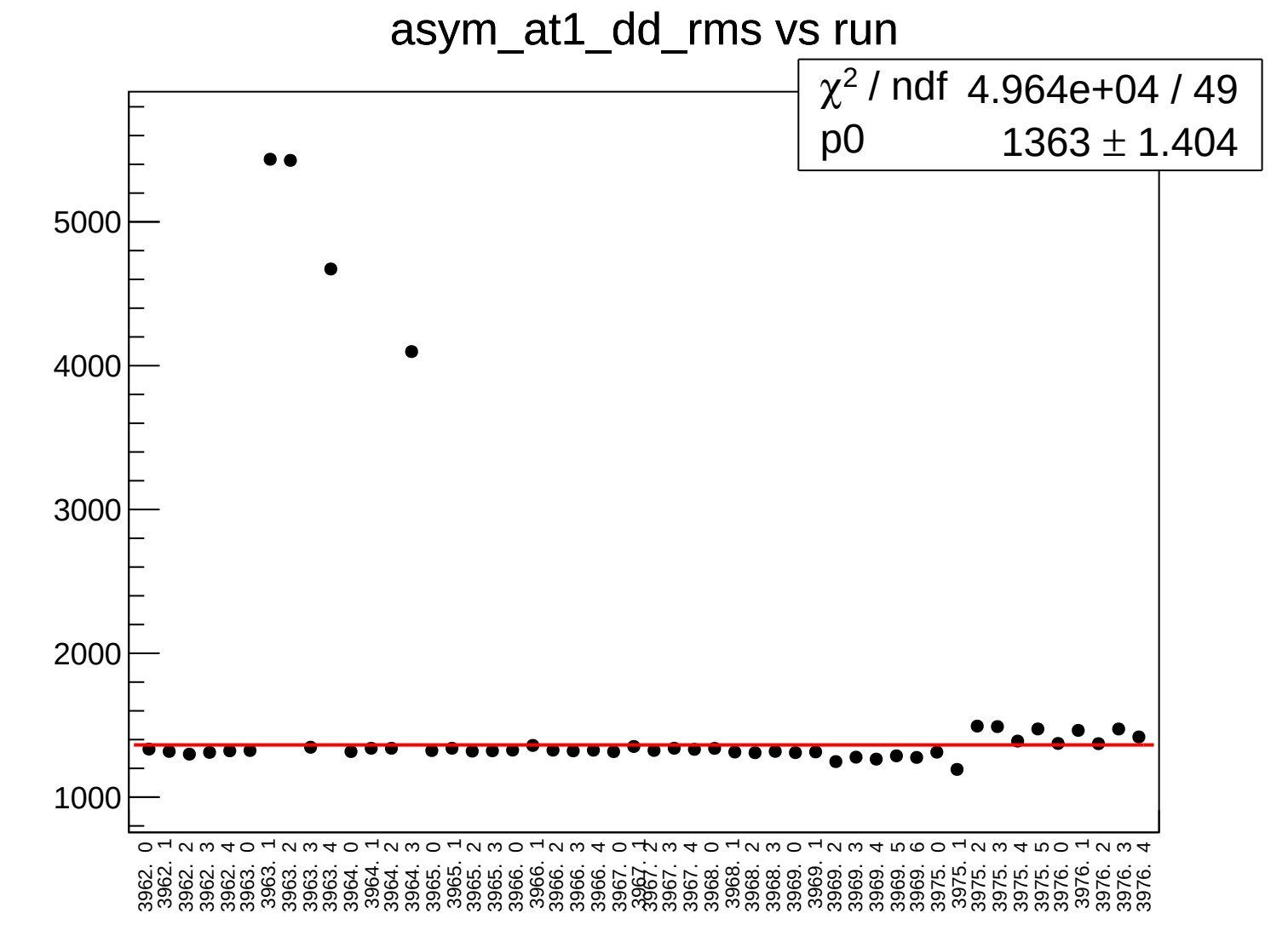

asym_at1_dd_correction_mean vs run
χ² / ndf 37.01 / 49
p0 −3714 ± 1833
40000
20000
0
−20000
−40000
pull
Entries 50
Mean 82.77
Std Dev 66.46
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

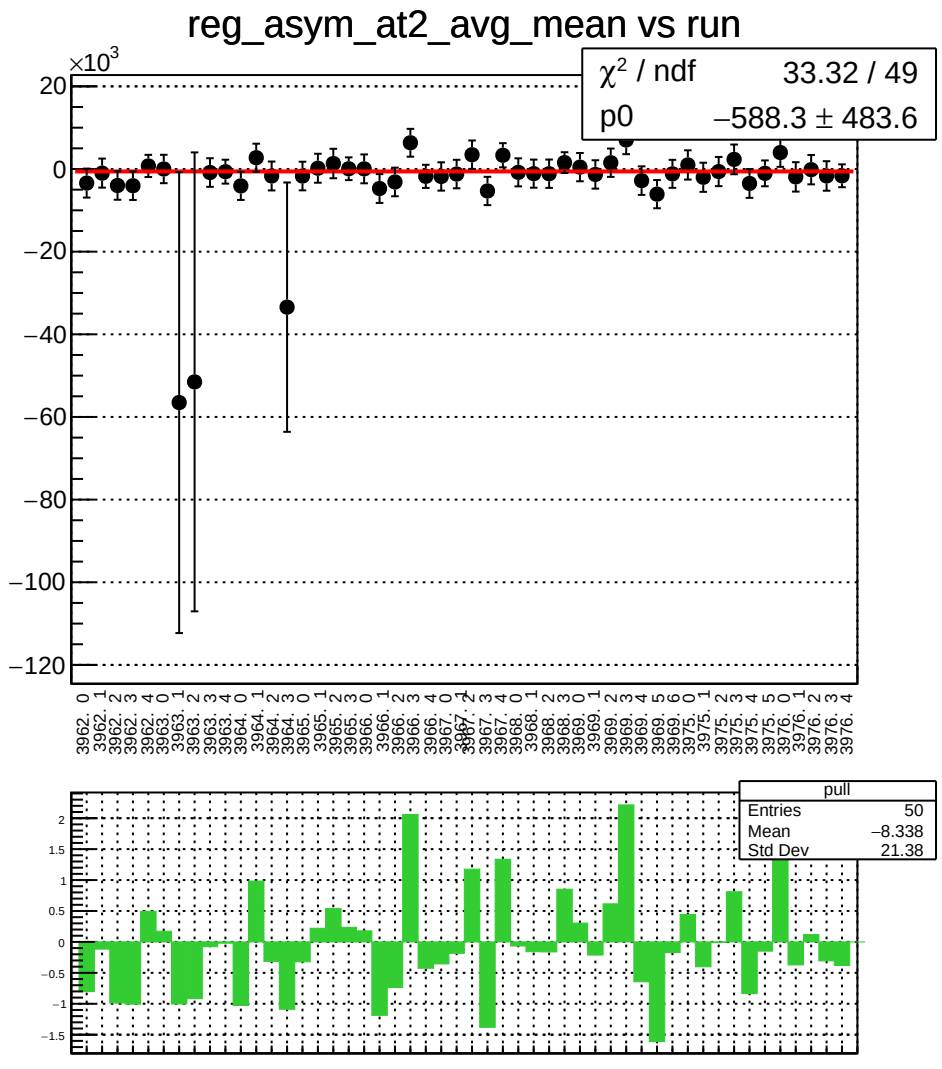

pull1D
Entries 50
Mean −0.01404
Std Dev 0.8602
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

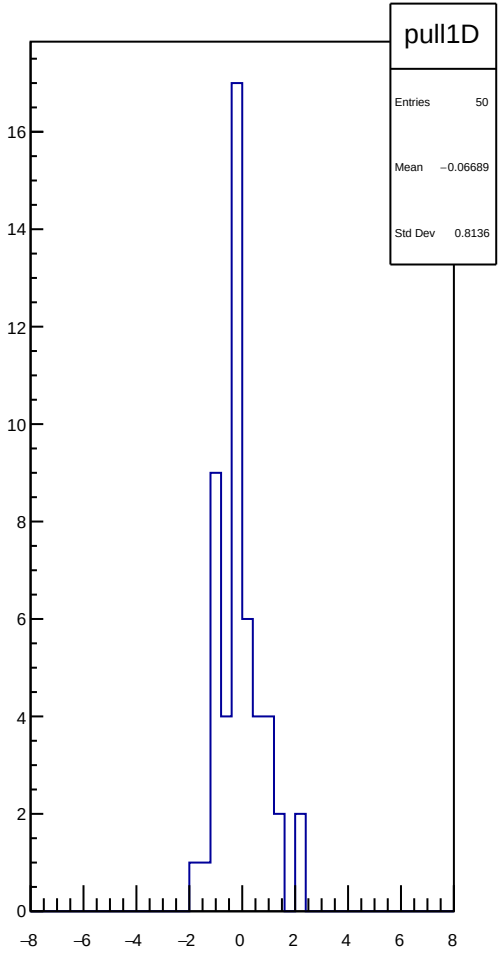

asym_at1_dd_correction_rms vs run
χ² / ndf 1905 / 49
p0 1290 ± 1.296
1450
1400
1350
1300
1250
1200
1150
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

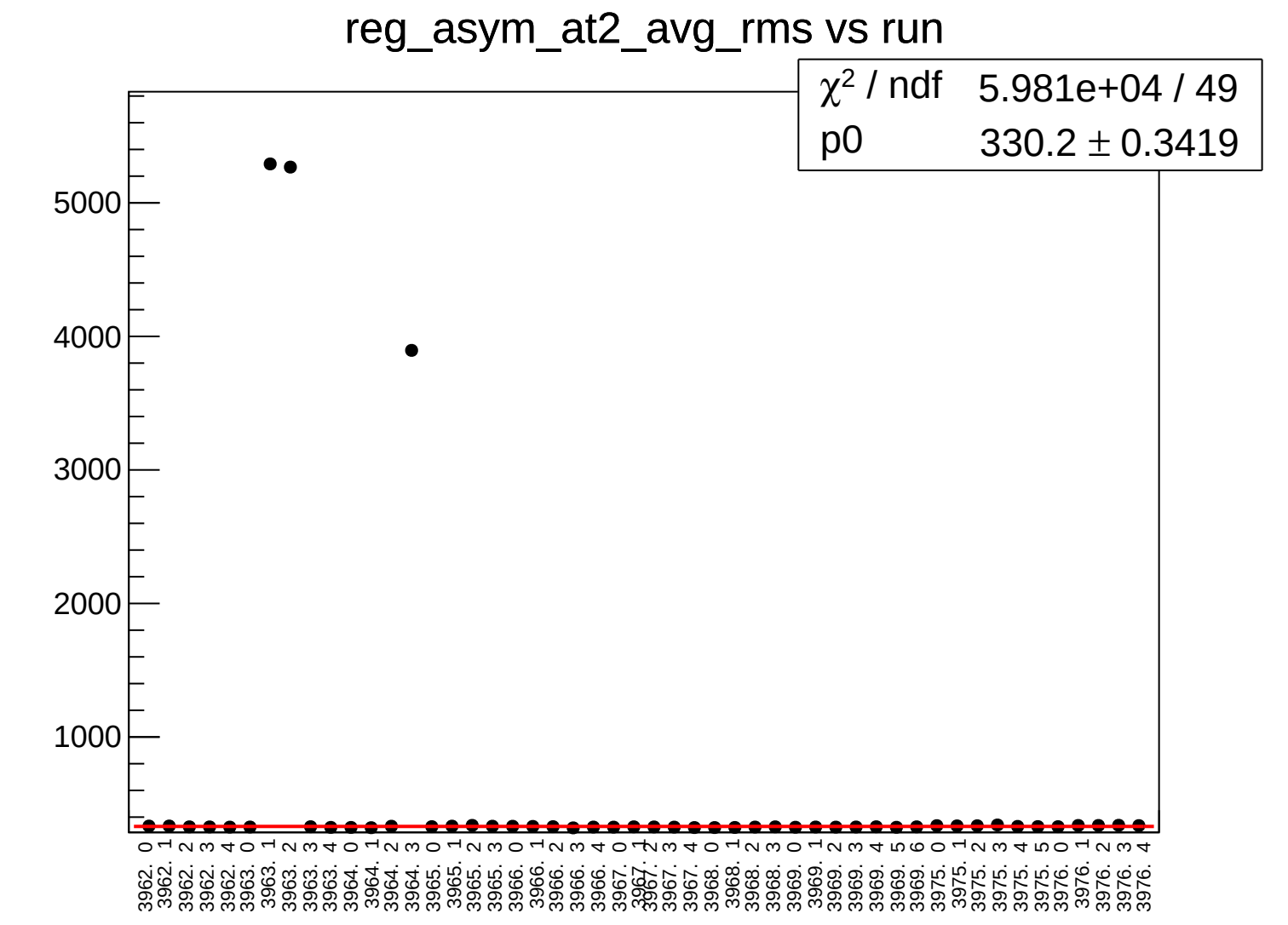

asym_at1_dd_mean vs run
×10^3
χ² / ndf 35.39 / 49
p0 2990 ± 1985
100
50
0
−50
−100
pull
Entries 50
Mean −59.08
Std Dev 67.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

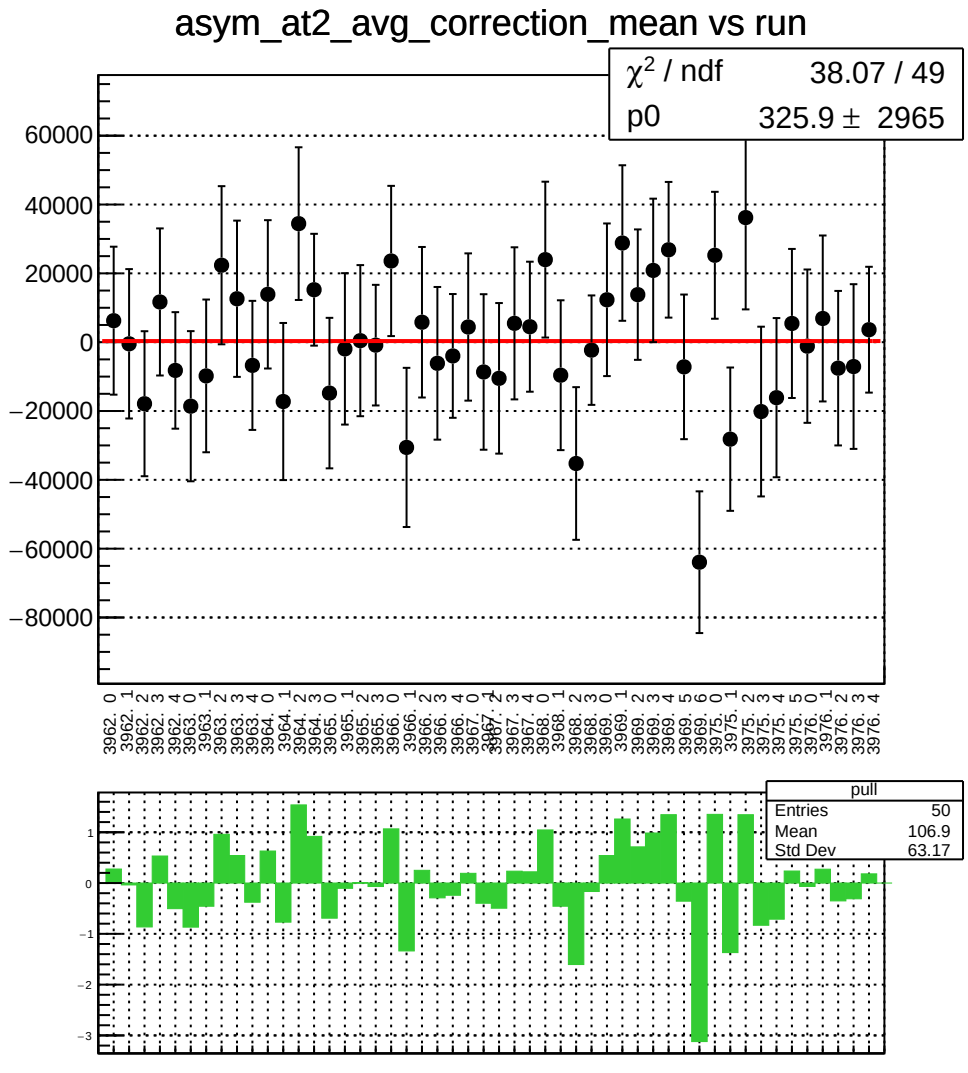

pull1D
Entries 50
Mean −0.006089
Std Dev 0.8413
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

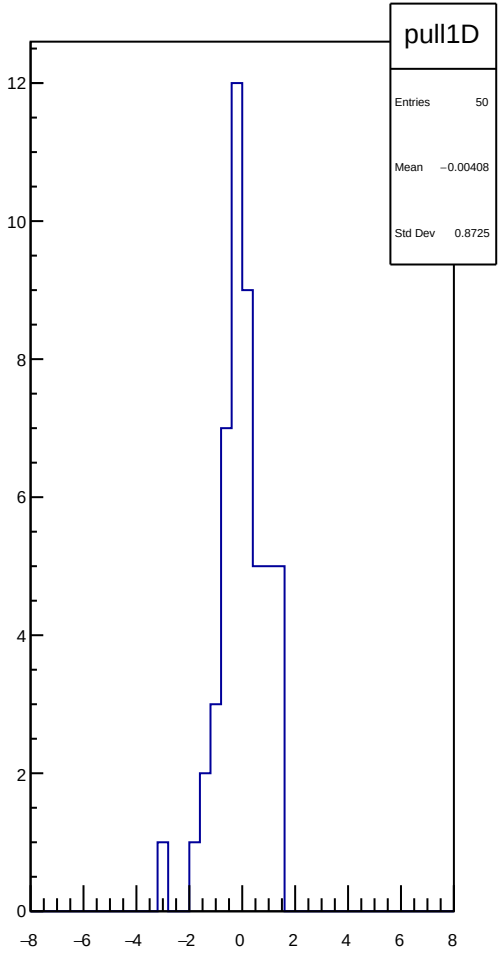

asym_at1_dd_rms vs run
χ^2 / ndf 4.964e+04 / 49
p0 1363 ± 1.404
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

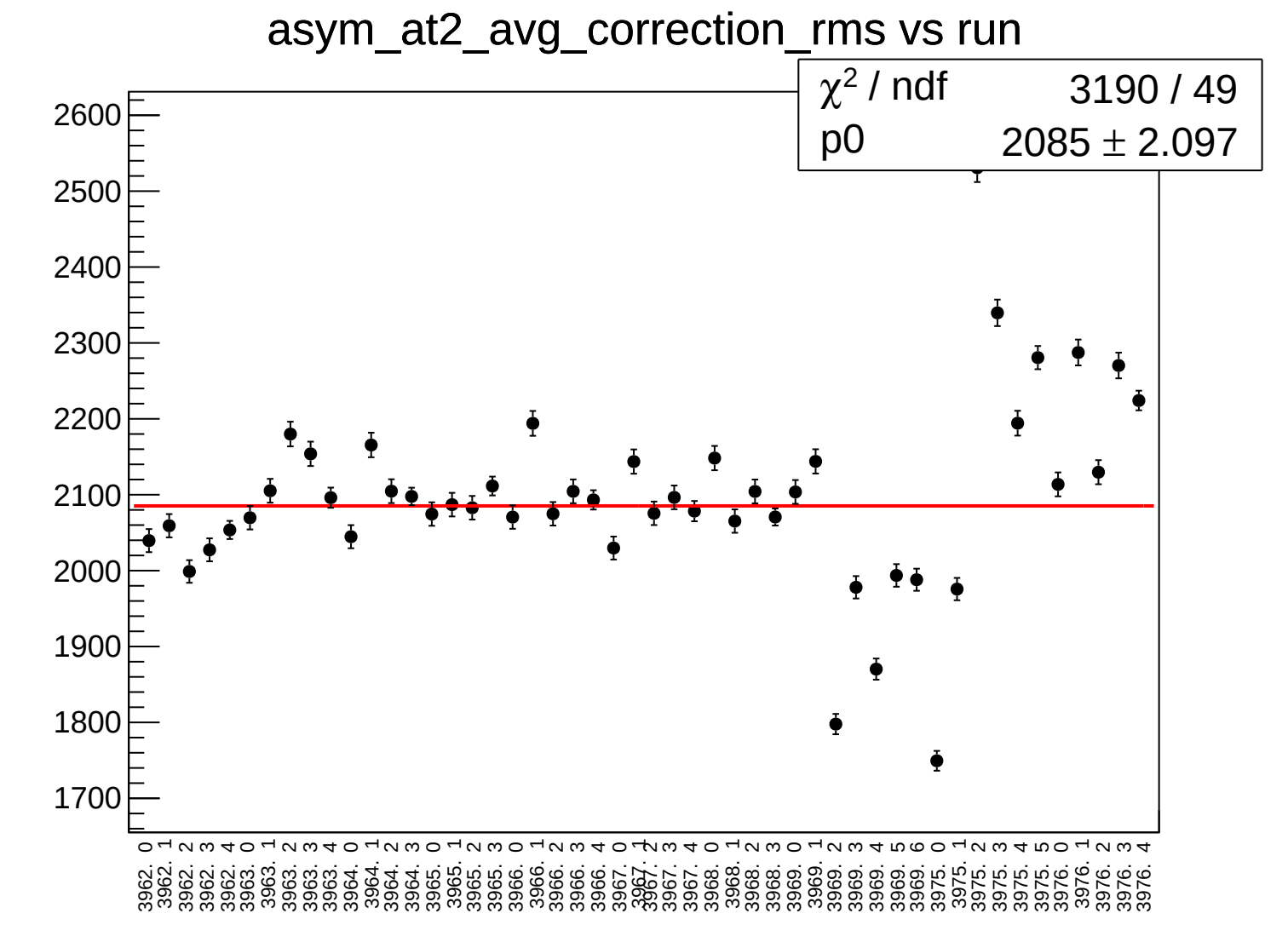

reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 33.32 / 49
p0 −588.3 ± 483.6
20
0
−20
−40
−60
−80
−100
−120
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean −8.338
Std Dev 21.38
2
1.5
1
0.5
0
−0.5
−1
−1.5

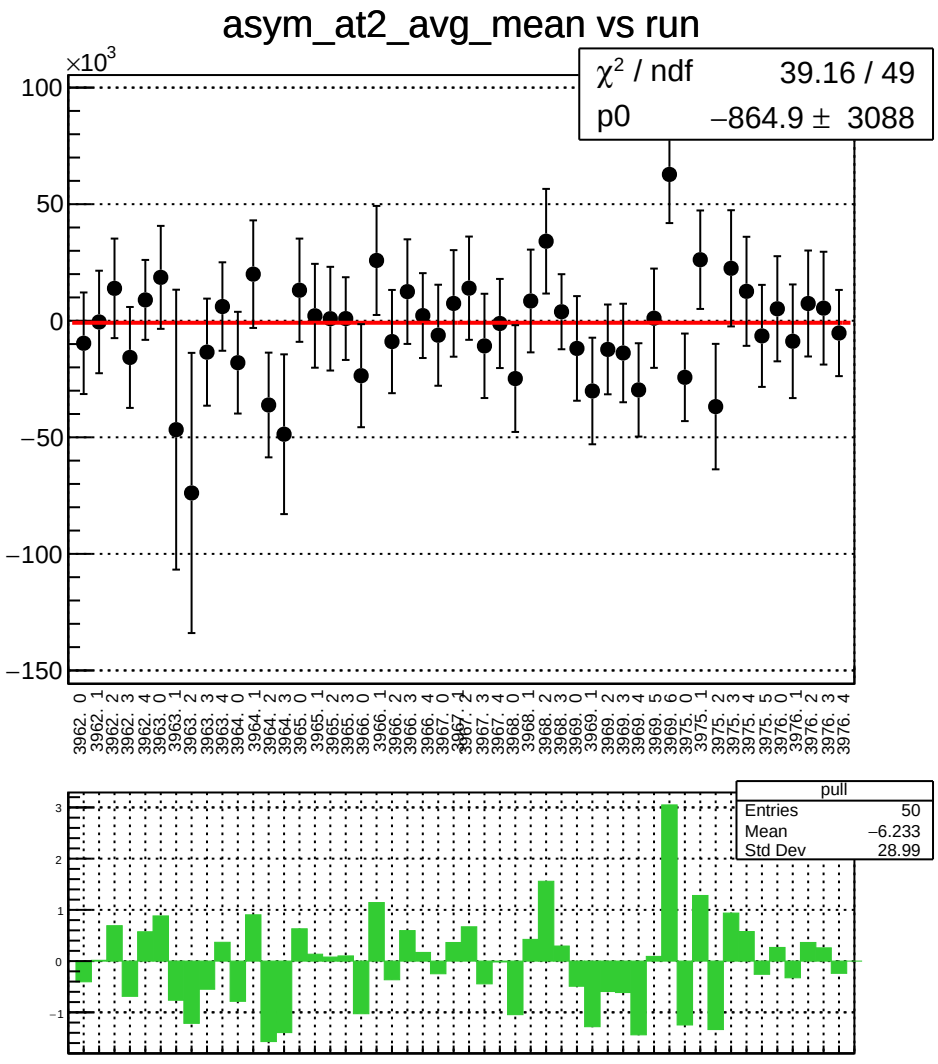

pull1D
Entries 50
Mean −0.06689
Std Dev 0.8136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

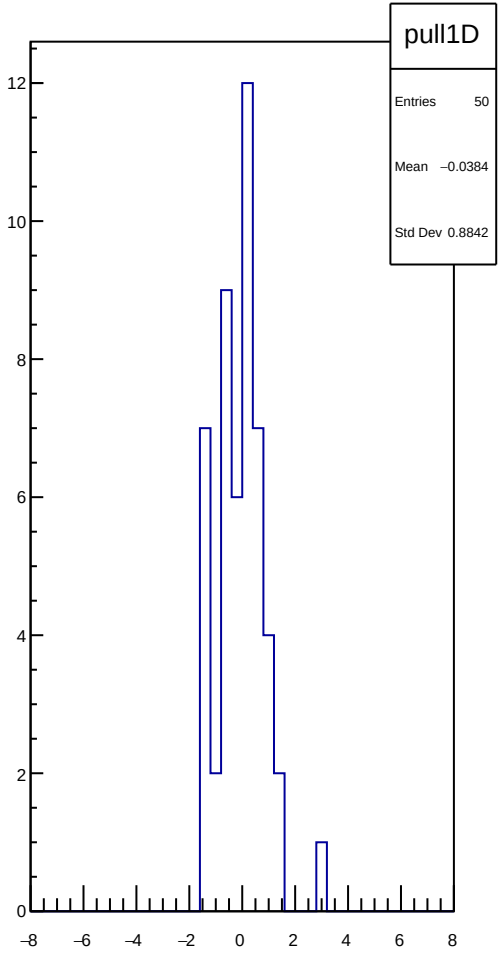

reg_asym_at2_avg_rms vs run
χ² / ndf 5.981e+04 / 49
p0 330.2 ± 0.3419
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

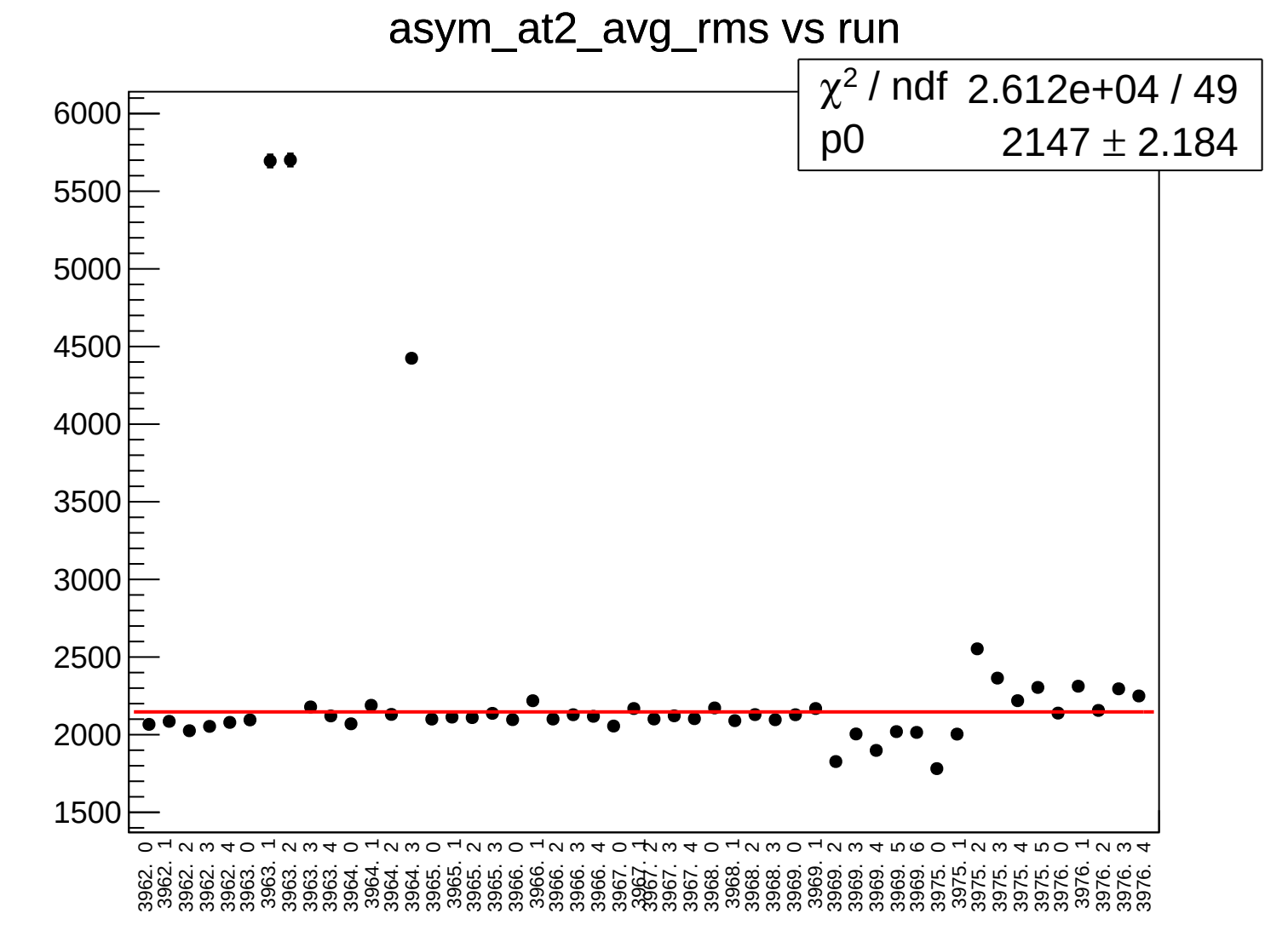

asym_at2_avg_correction_mean vs run
χ² / ndf 38.07 / 49
p0 325.9 ± 2965
pull
Entries 50
Mean 106.9
Std Dev 63.17

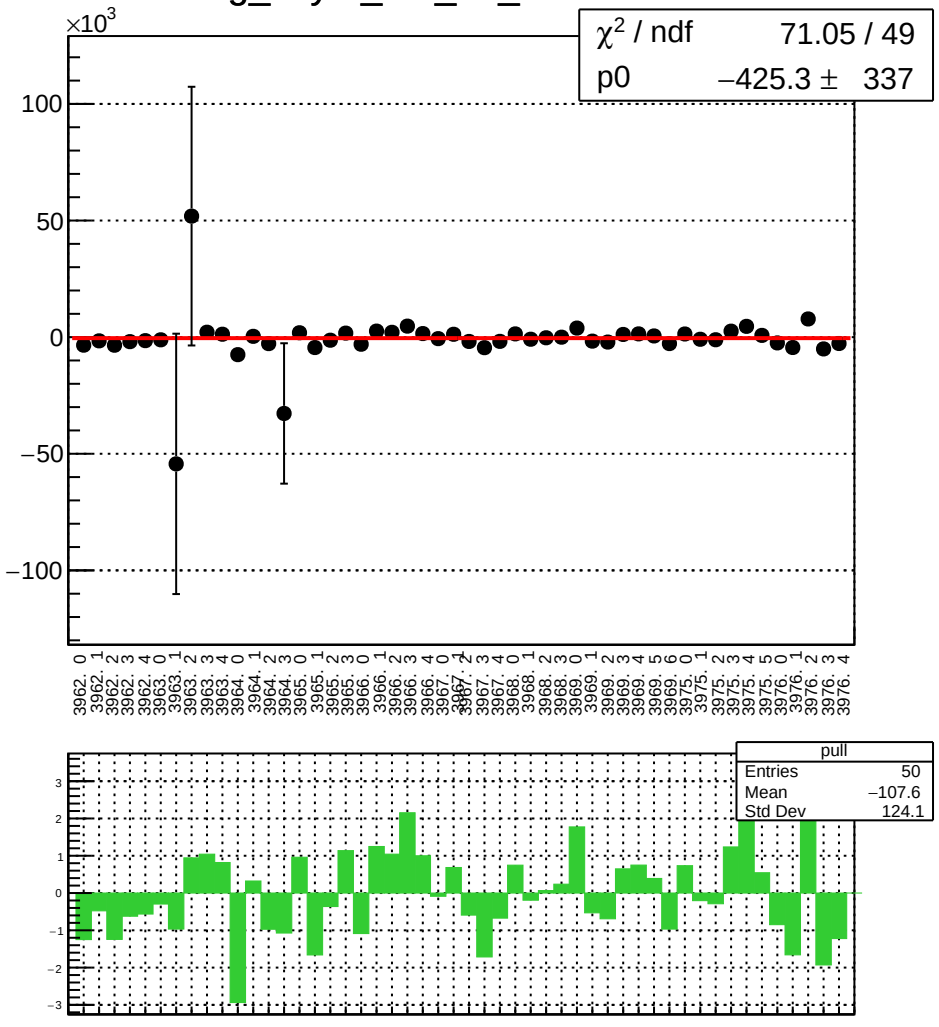

pull1D
Entries 50
Mean −0.00408
Std Dev 0.8725

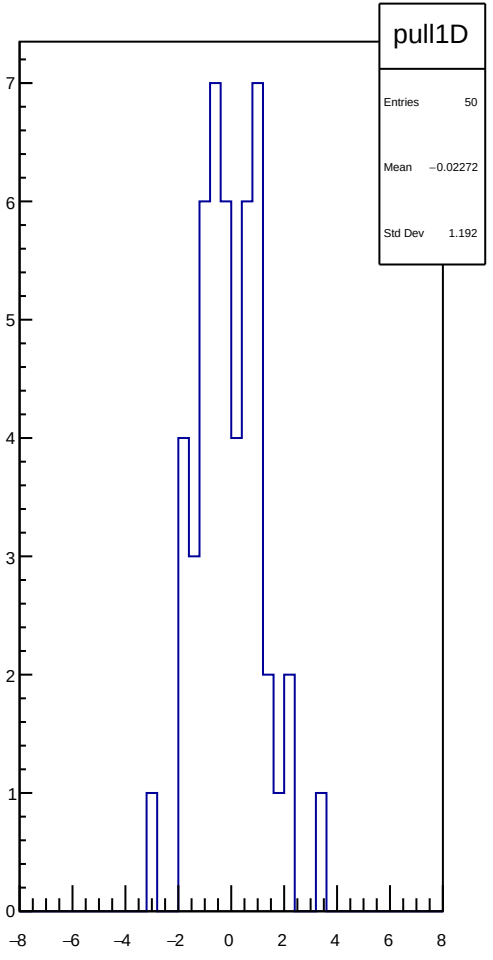

asym_at2_avg_correction_rms vs run
χ² / ndf 3190 / 49
p0 2085 ± 2.097
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

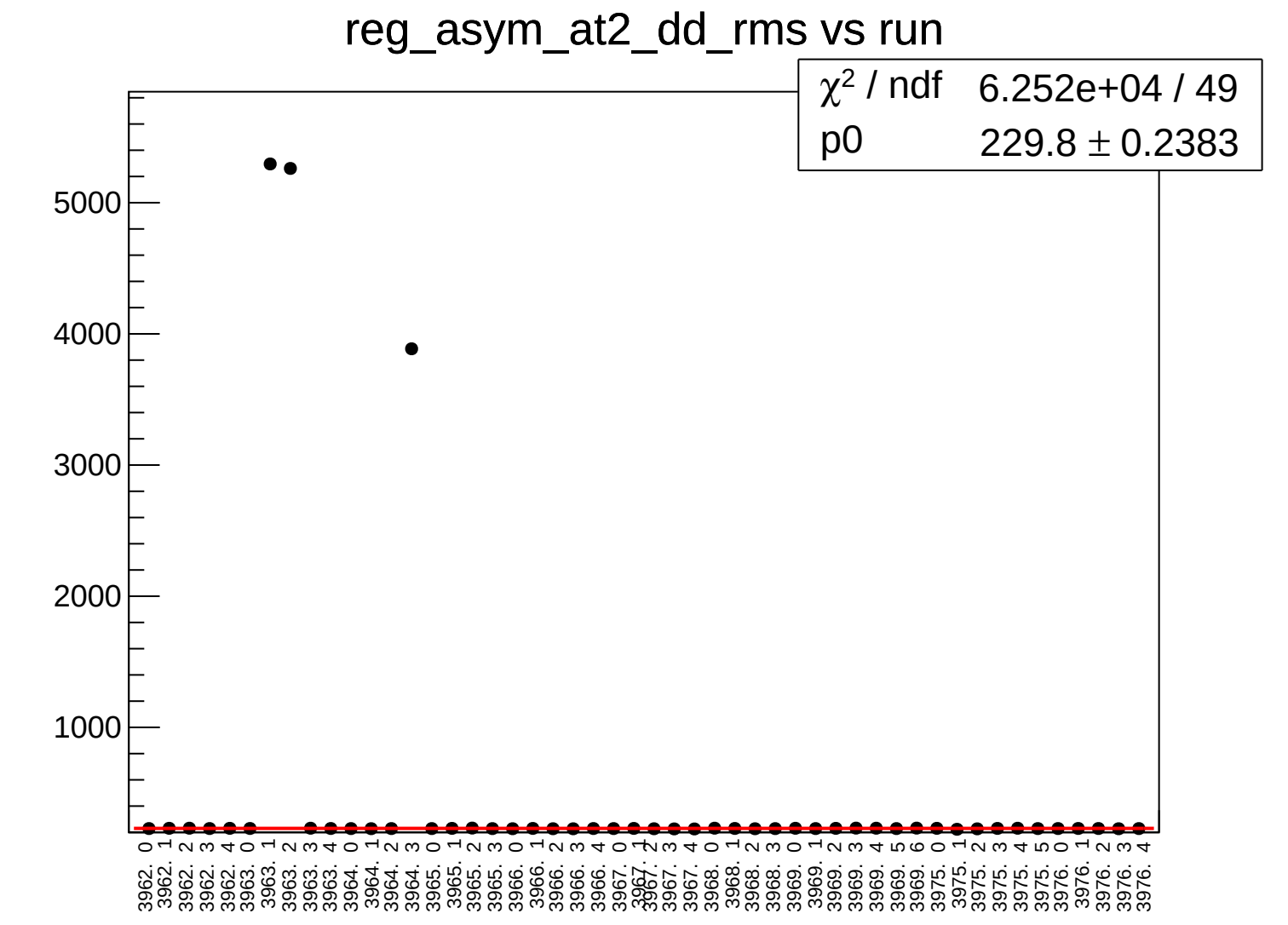

asym_at2_avg_mean vs run
×10^3
χ² / ndf 39.16 / 49
p0 −864.9 ± 3088
100
50
0
−50
−100
−150
pull
Entries 50
Mean −6.233
Std Dev 28.99

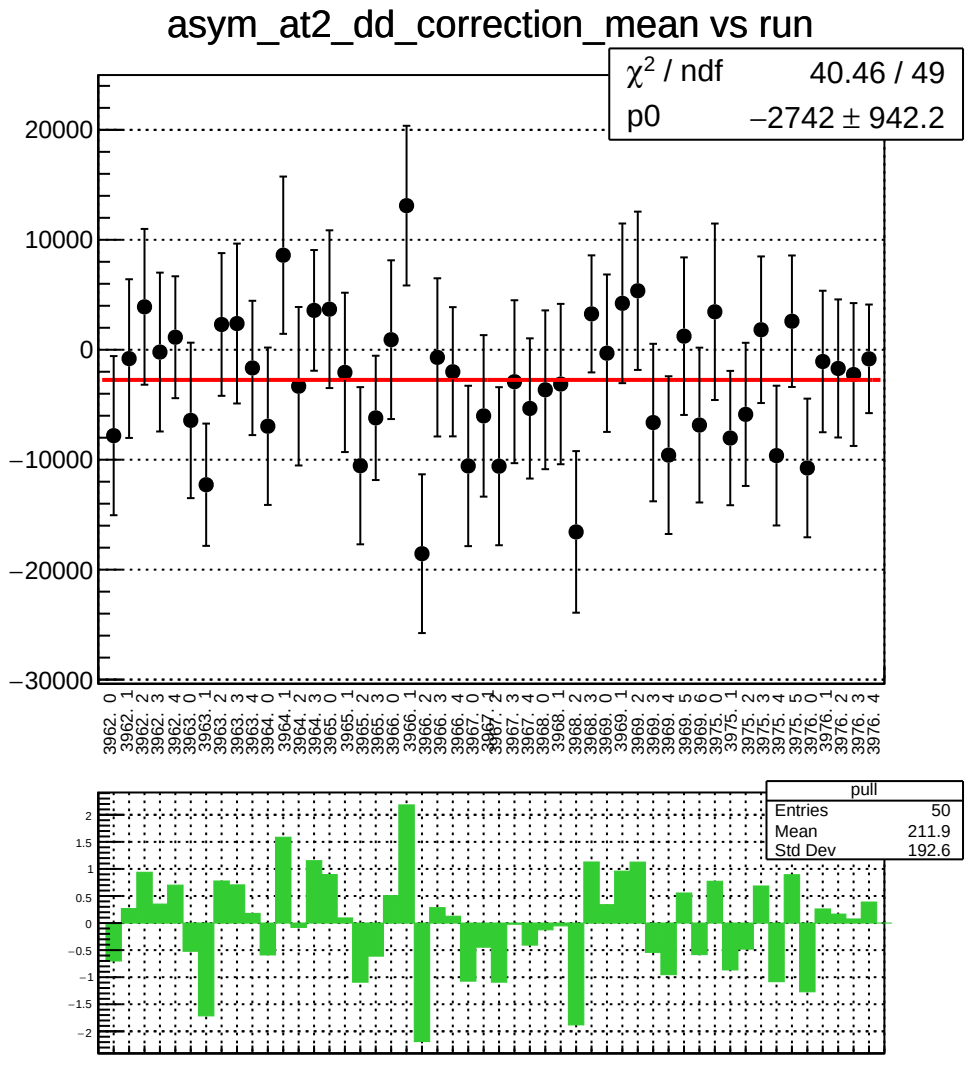

pull1D
Entries 50
Mean −0.0384
Std Dev 0.8842

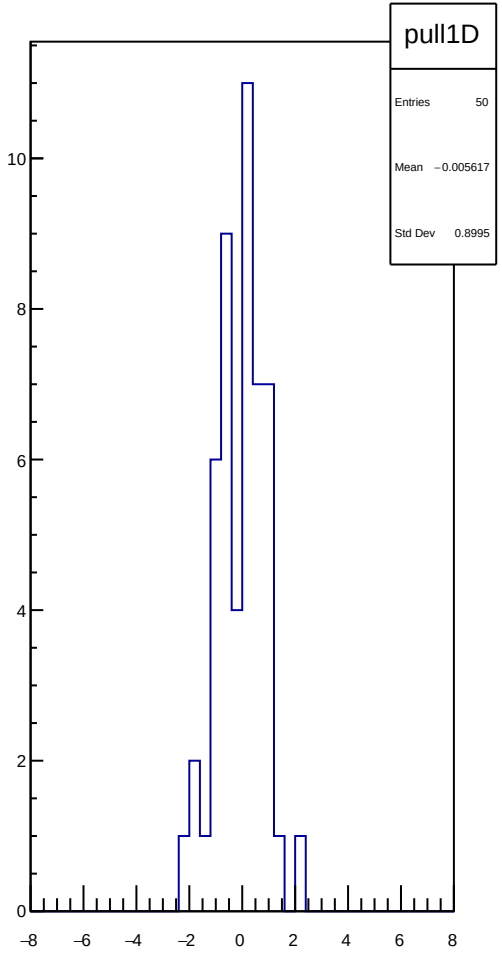

asym_at2_avg_rms vs run
χ² / ndf 2.612e+04 / 49
p0 2147 ± 2.184
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

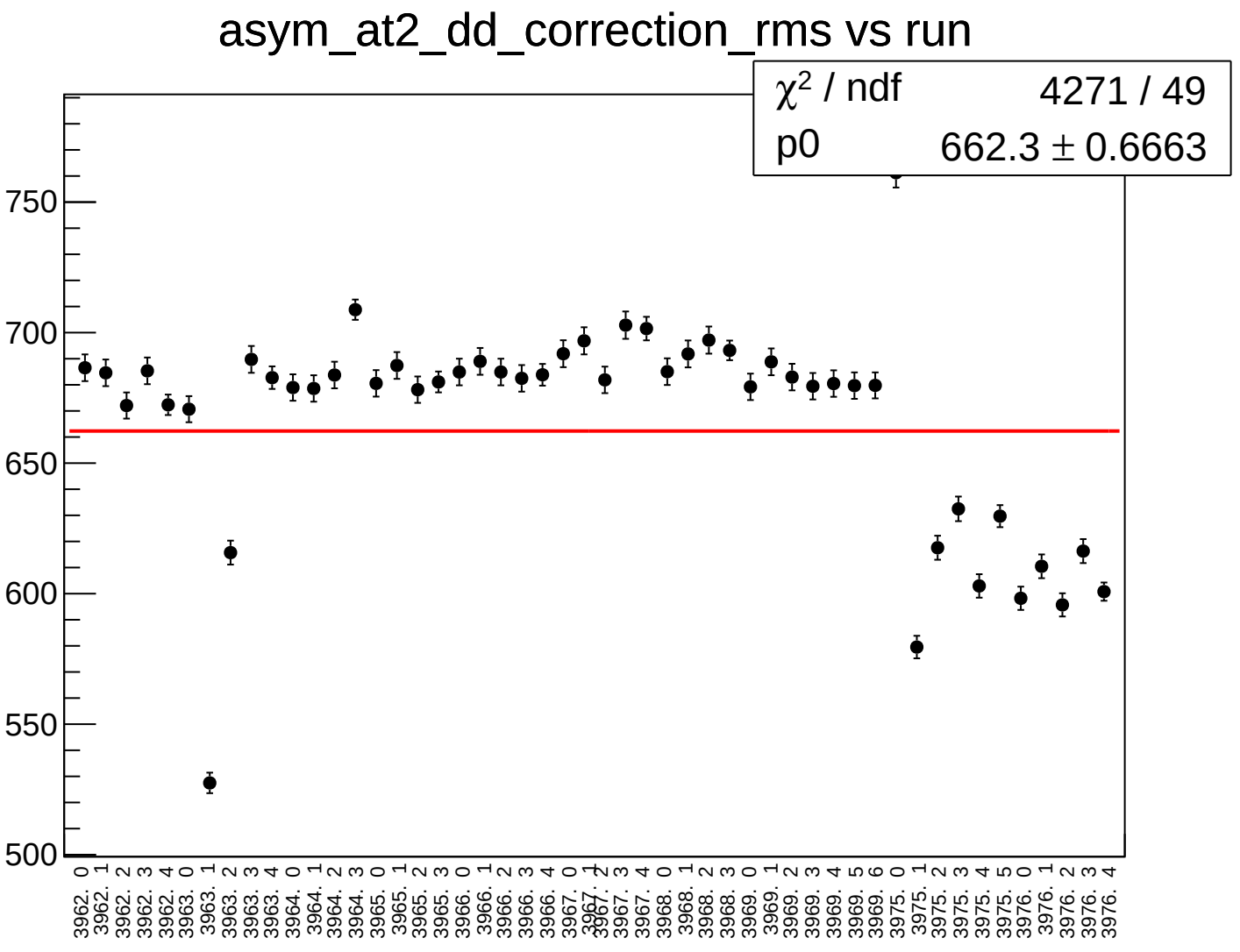

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 71.05 / 49
p0 −425.3 ± 337
100
50
0
−50
−100
pull
Entries 50
Mean −107.6
Std Dev 124.1
3
2
1
0
−1
−2
−3

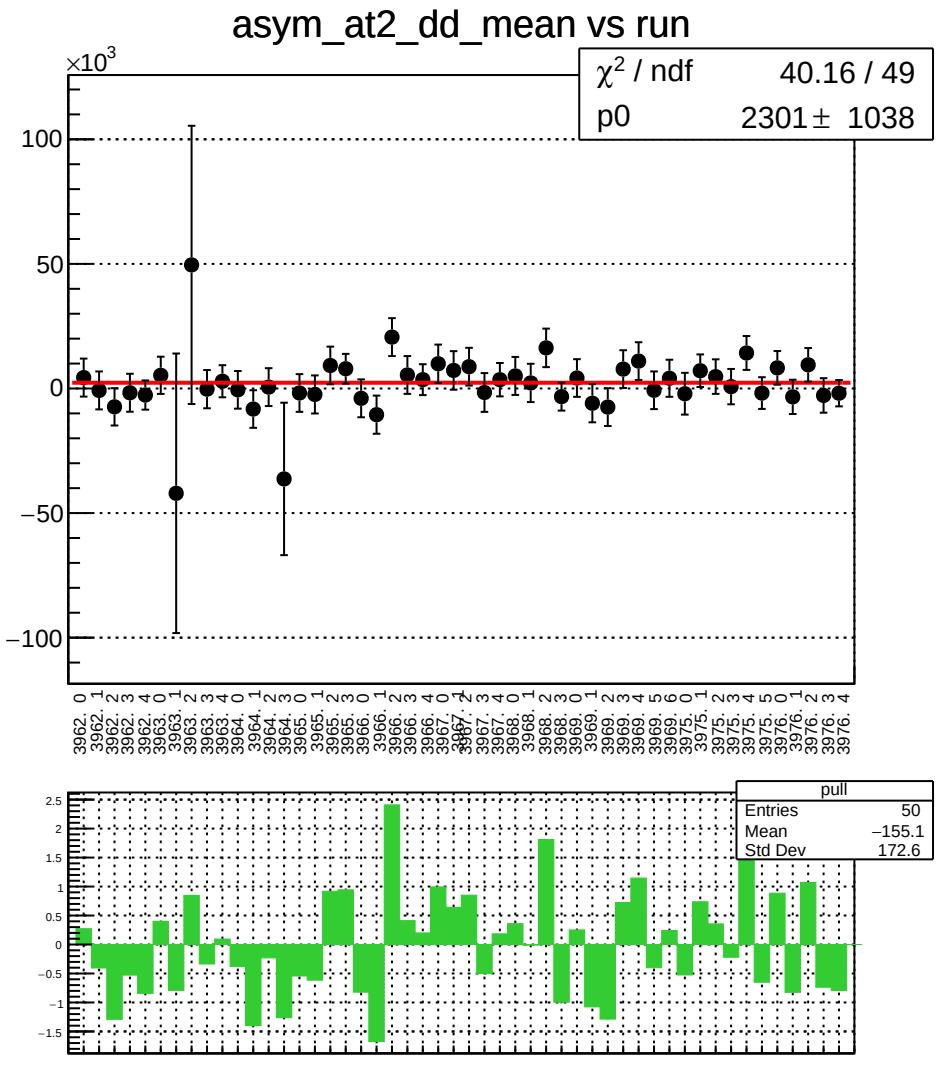

pull1D
Entries 50
Mean −0.02272
Std Dev 1.192
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

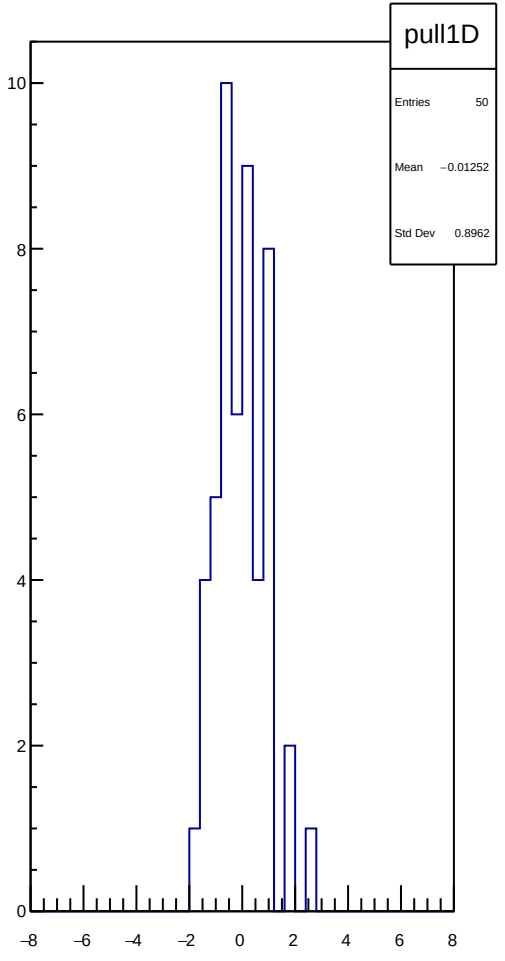

reg_asym_at2_dd_rms vs run
χ² / ndf 6.252e+04 / 49
p0 229.8 ± 0.2383
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

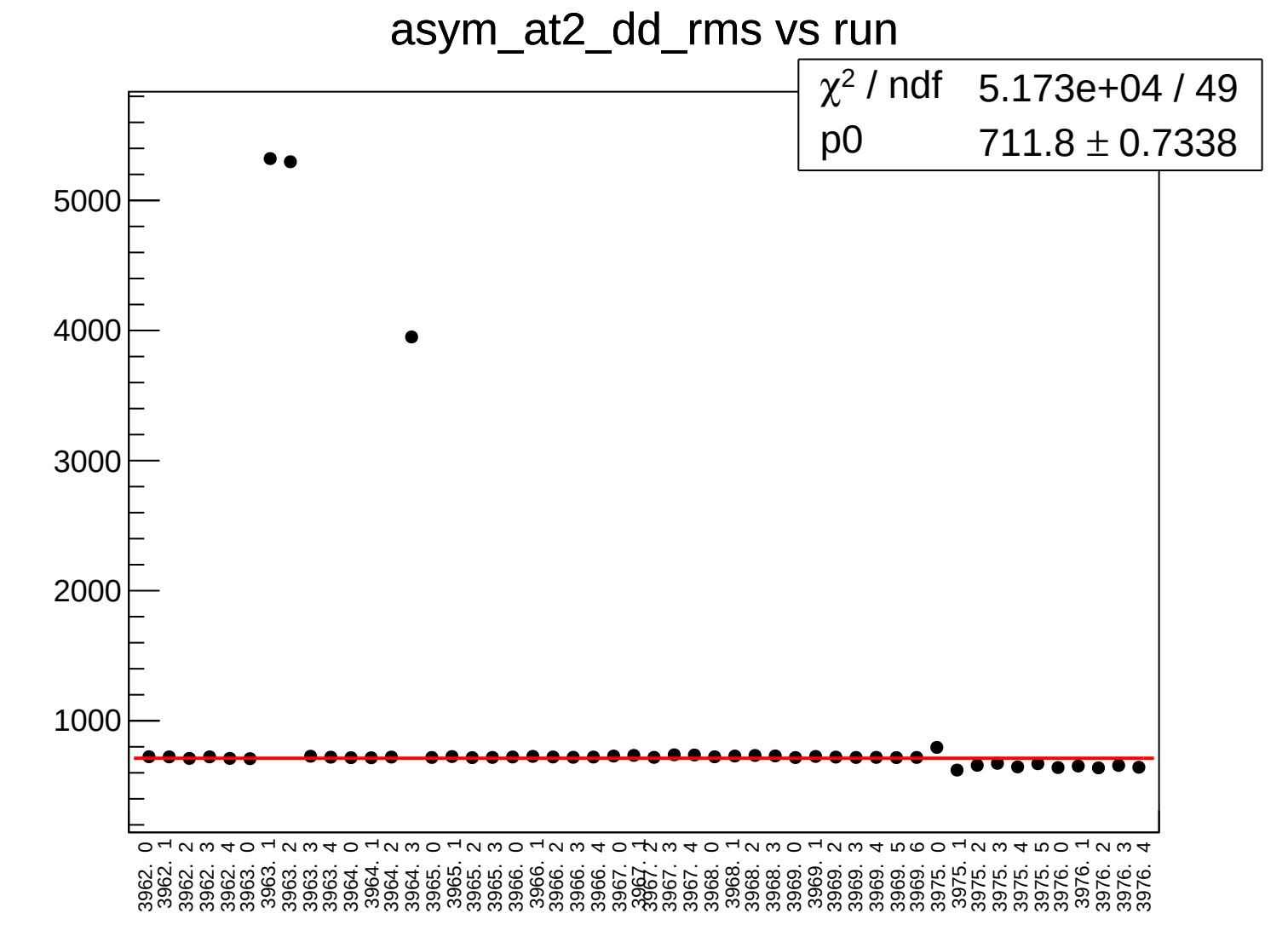

asym_at2_dd_correction_mean vs run
χ² / ndf 40.46 / 49
p0 −2742 ± 942.2
pull
Entries 50
Mean 211.9
Std Dev 192.6


pull1D
Entries 50
Mean −0.005617
Std Dev 0.8995


asym_at2_dd_correction_rms vs run
χ² / ndf 4271 / 49
p0 662.3 ± 0.6663
750
700
650
600
550
500
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_at2_dd_mean vs run
×10^3
χ² / ndf 40.16 / 49
p0 2301 ± 1038
100
50
0
−50
−100
pull
Entries 50
Mean −155.1
Std Dev 172.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.01252
Std Dev 0.8962
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
χ² / ndf 5.173e+04 / 49
p0 711.8 ± 0.7338
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
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3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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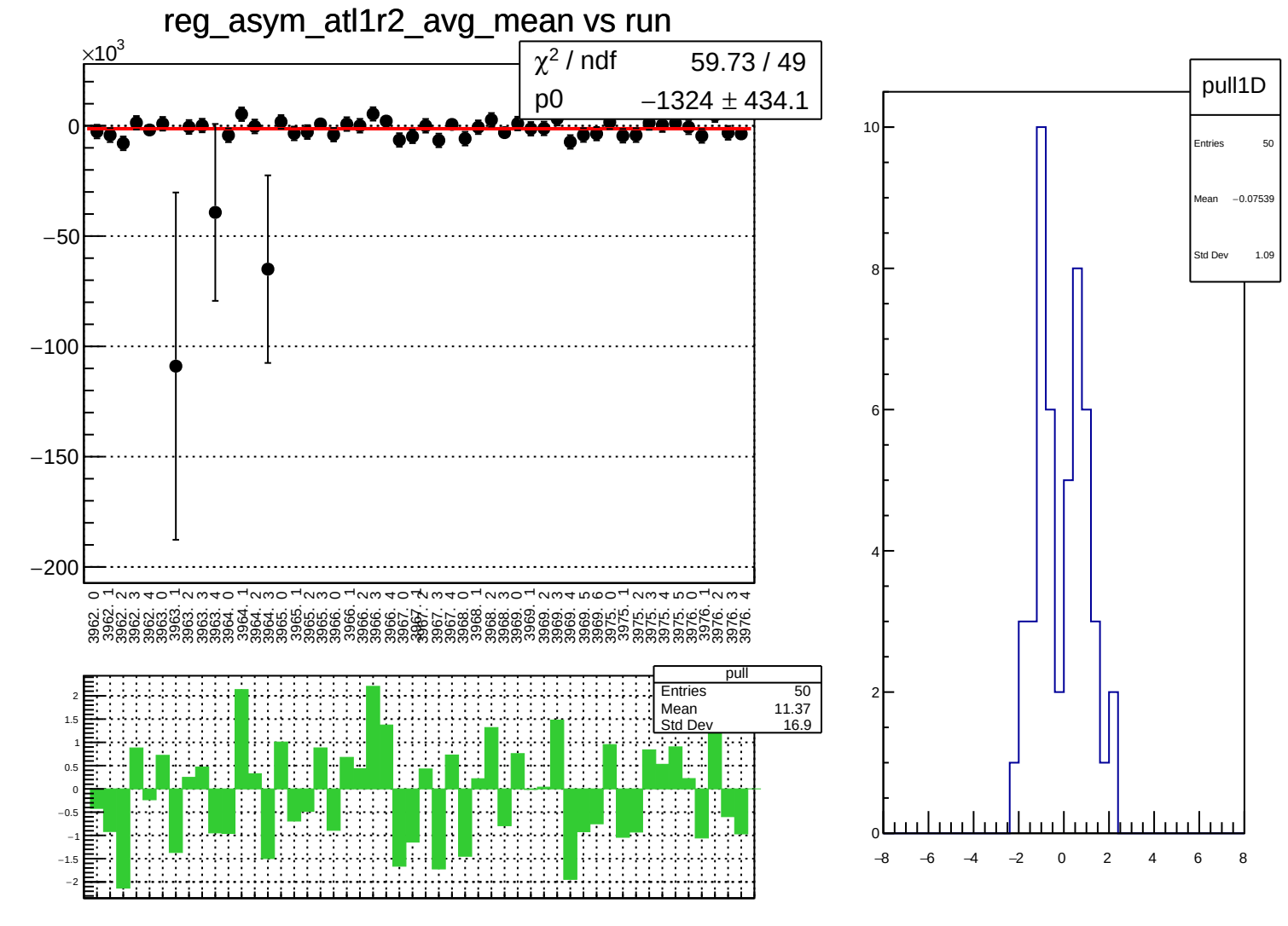
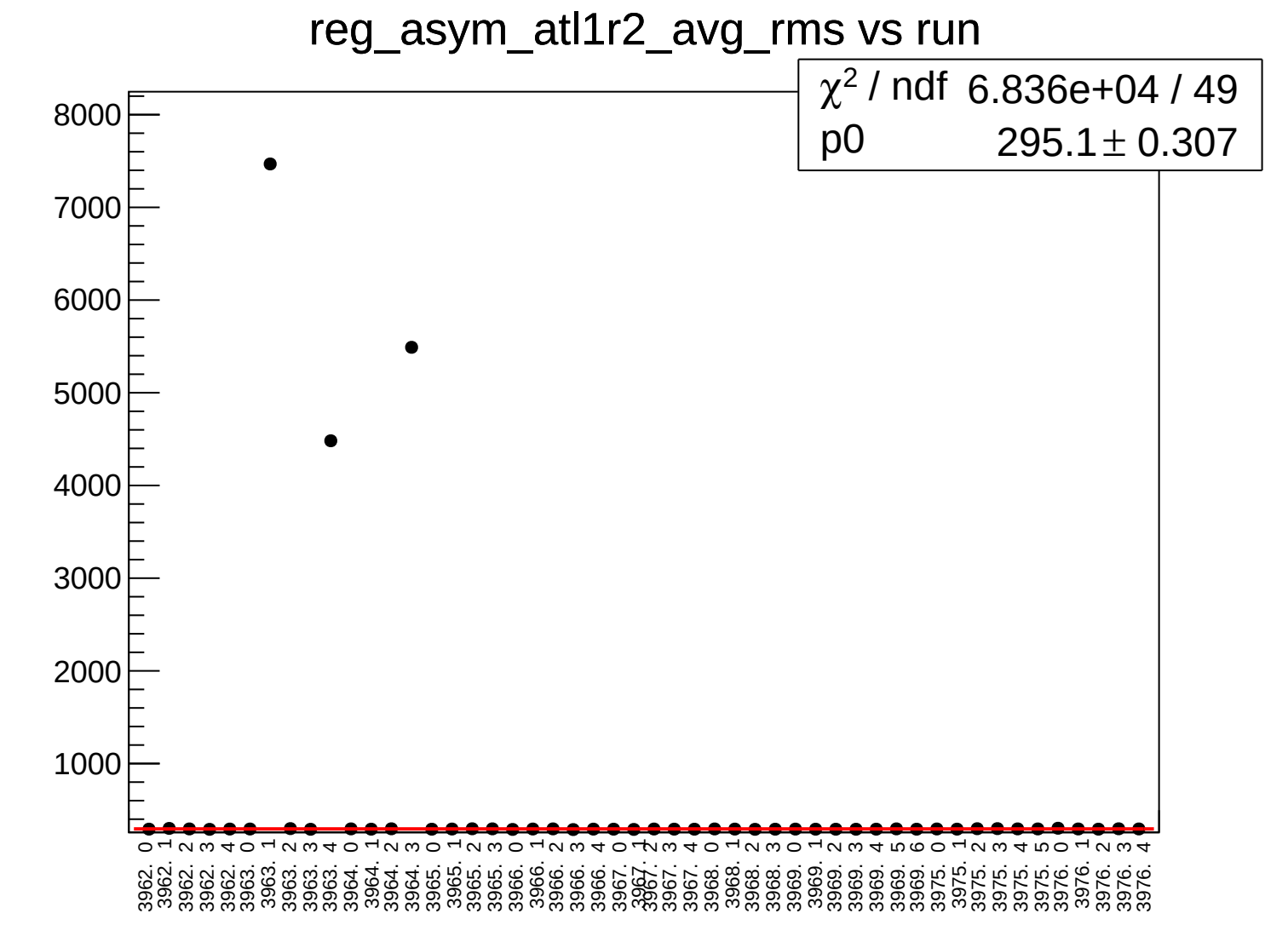
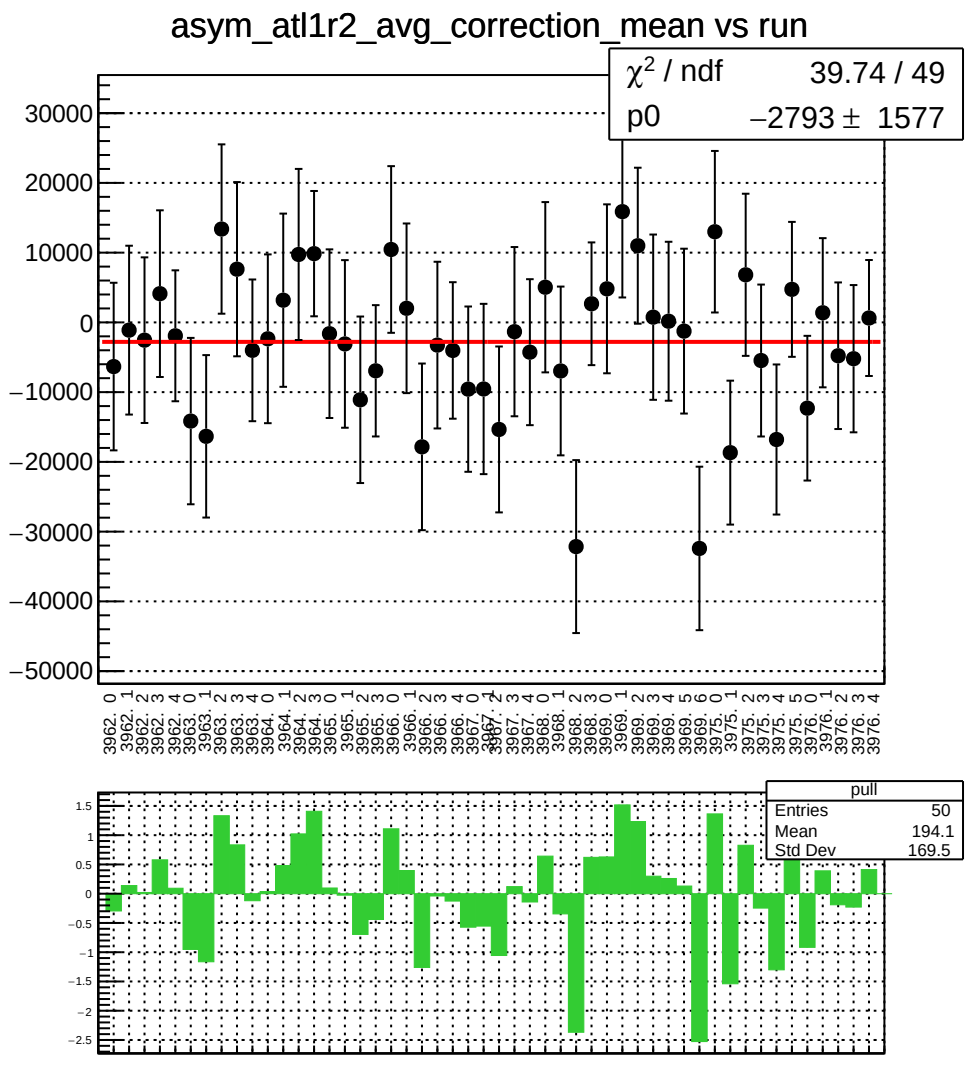
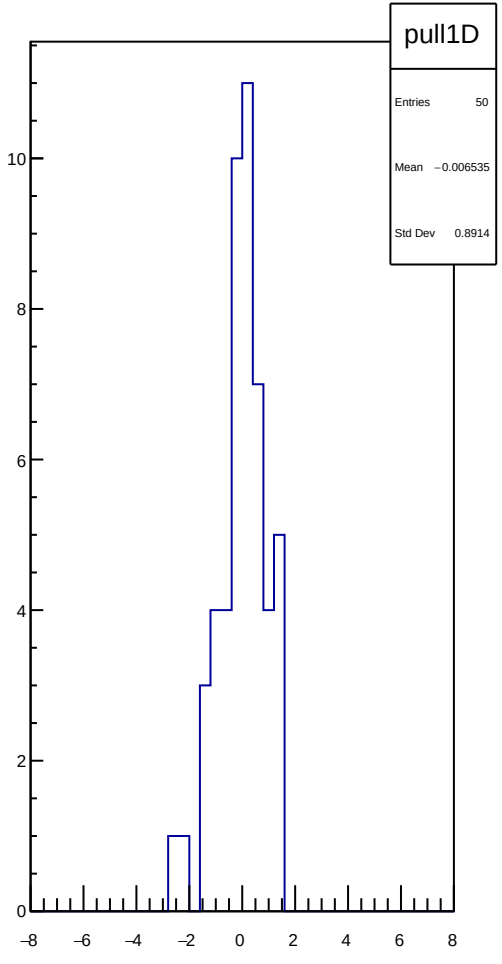
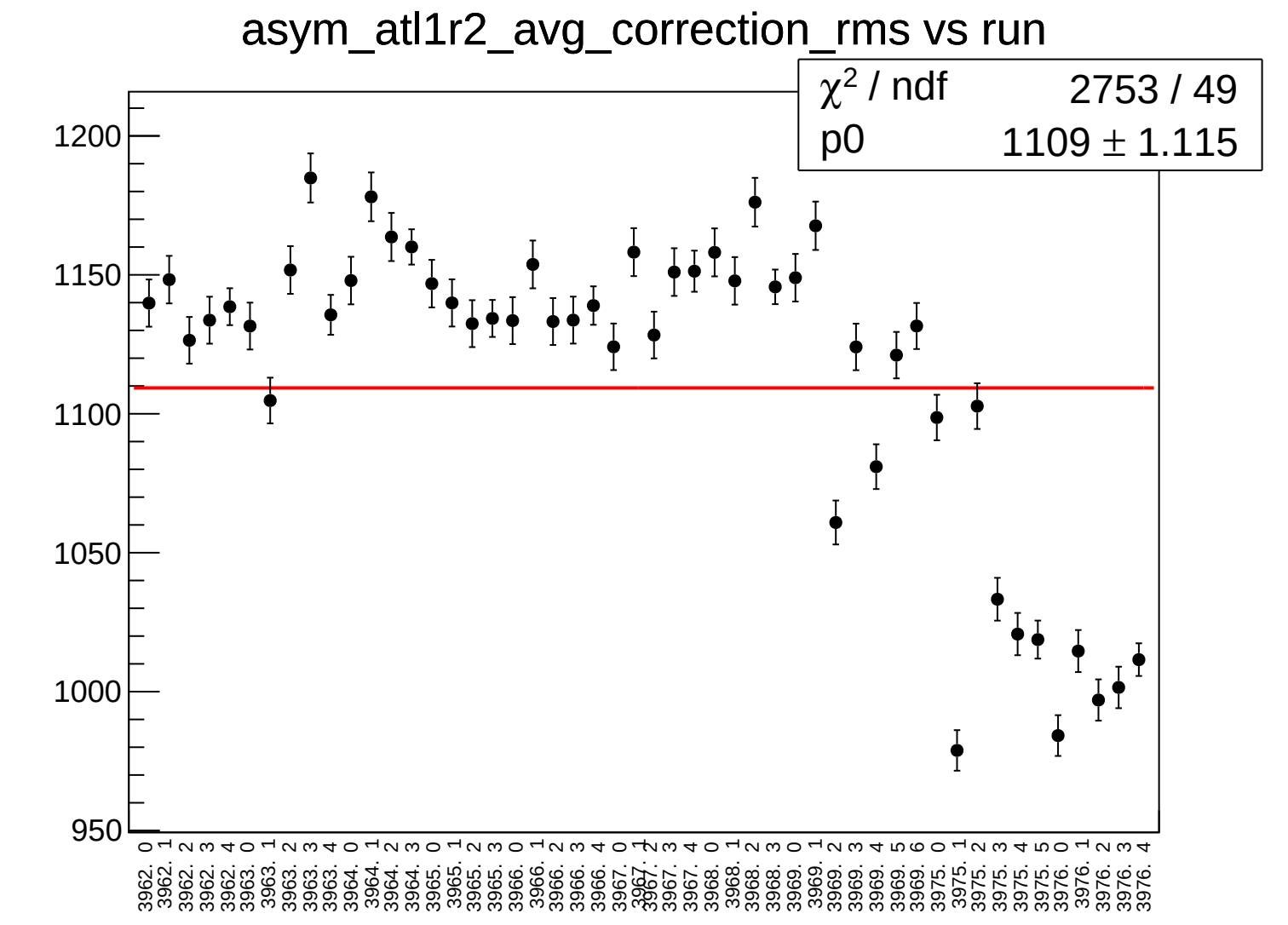
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

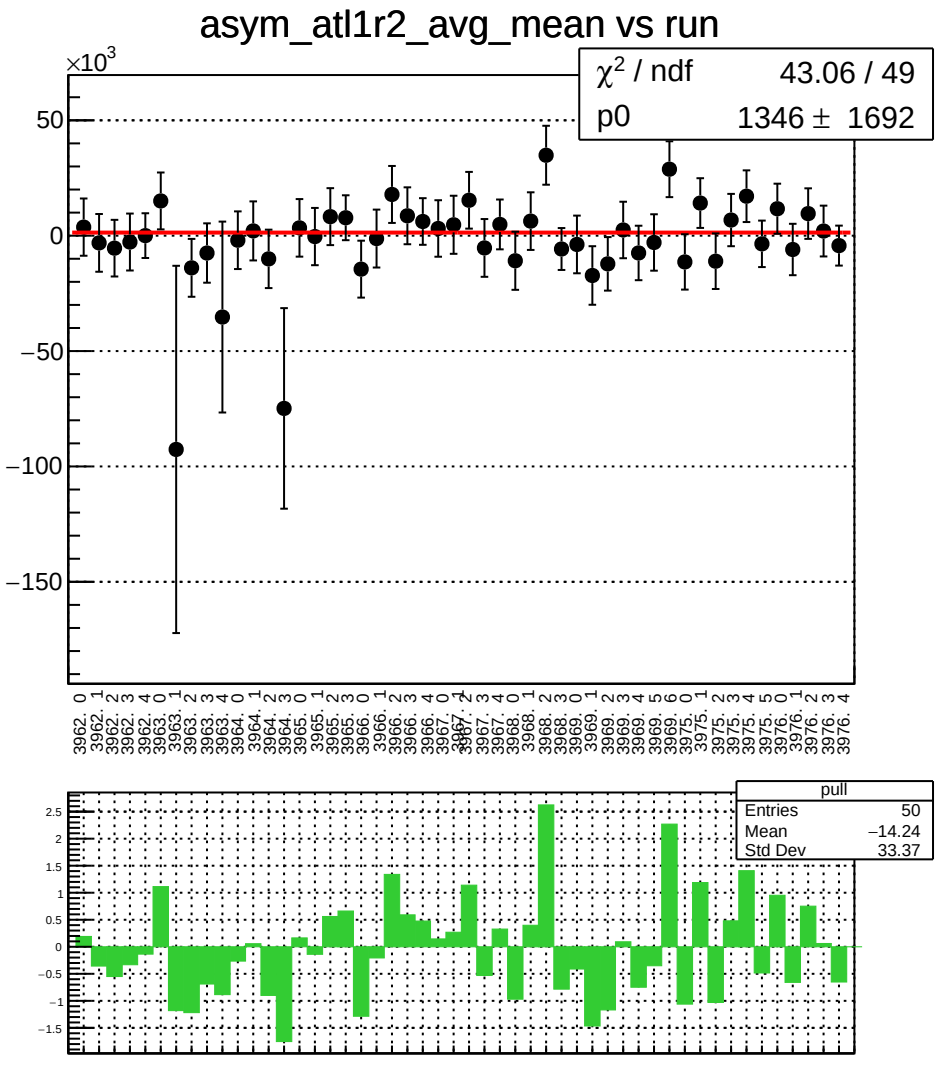

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 59.73 / 49
p0 −1324 ± 434.1
0
−50
−100
−150
−200
pull
Entries 50
Mean 11.37
Std Dev 16.9
pull1D
Entries 50
Mean −0.07539
Std Dev 1.09

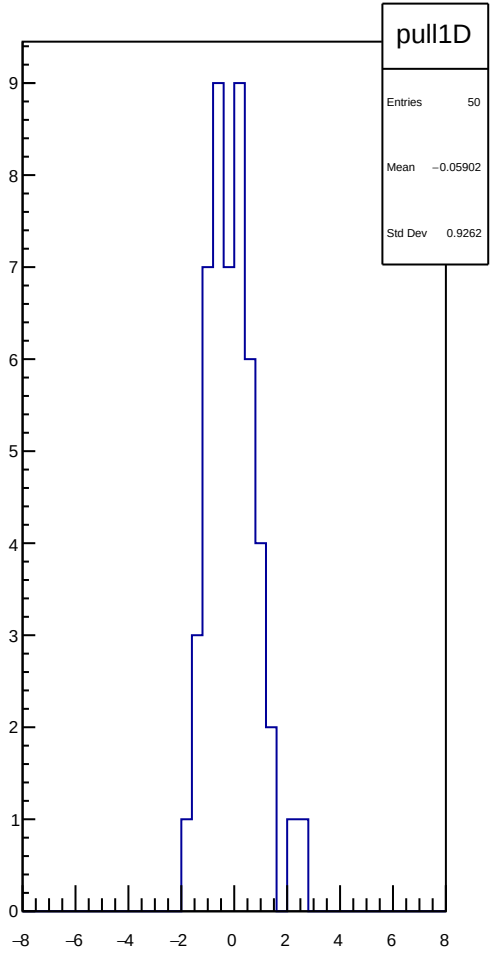

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 6.836e+04 / 49
p0 295.1 ± 0.307
8000
7000
6000
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

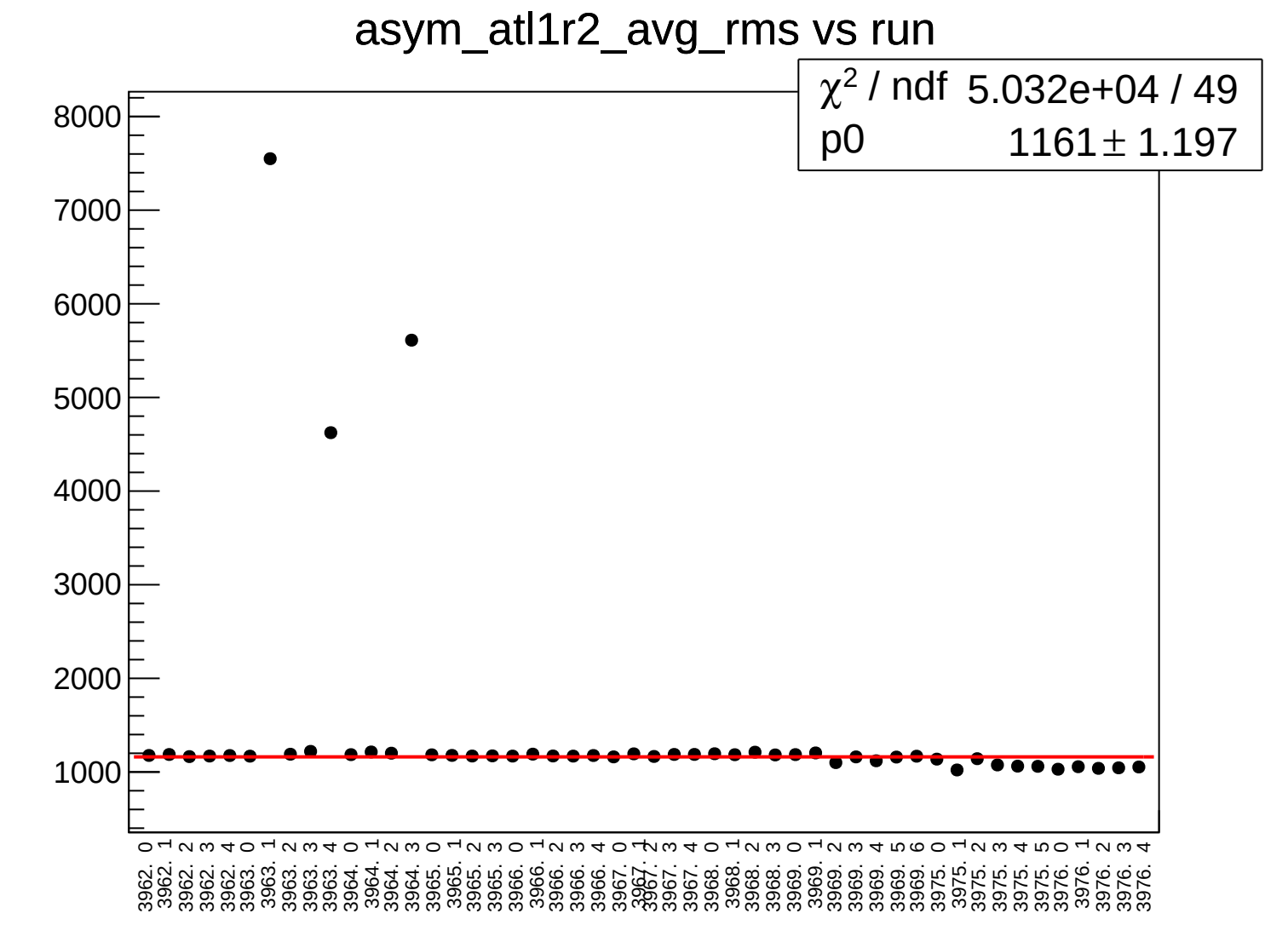

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 39.74 / 49
p0 −2793 ± 1577
pull
Entries 50
Mean 194.1
Std Dev 169.5

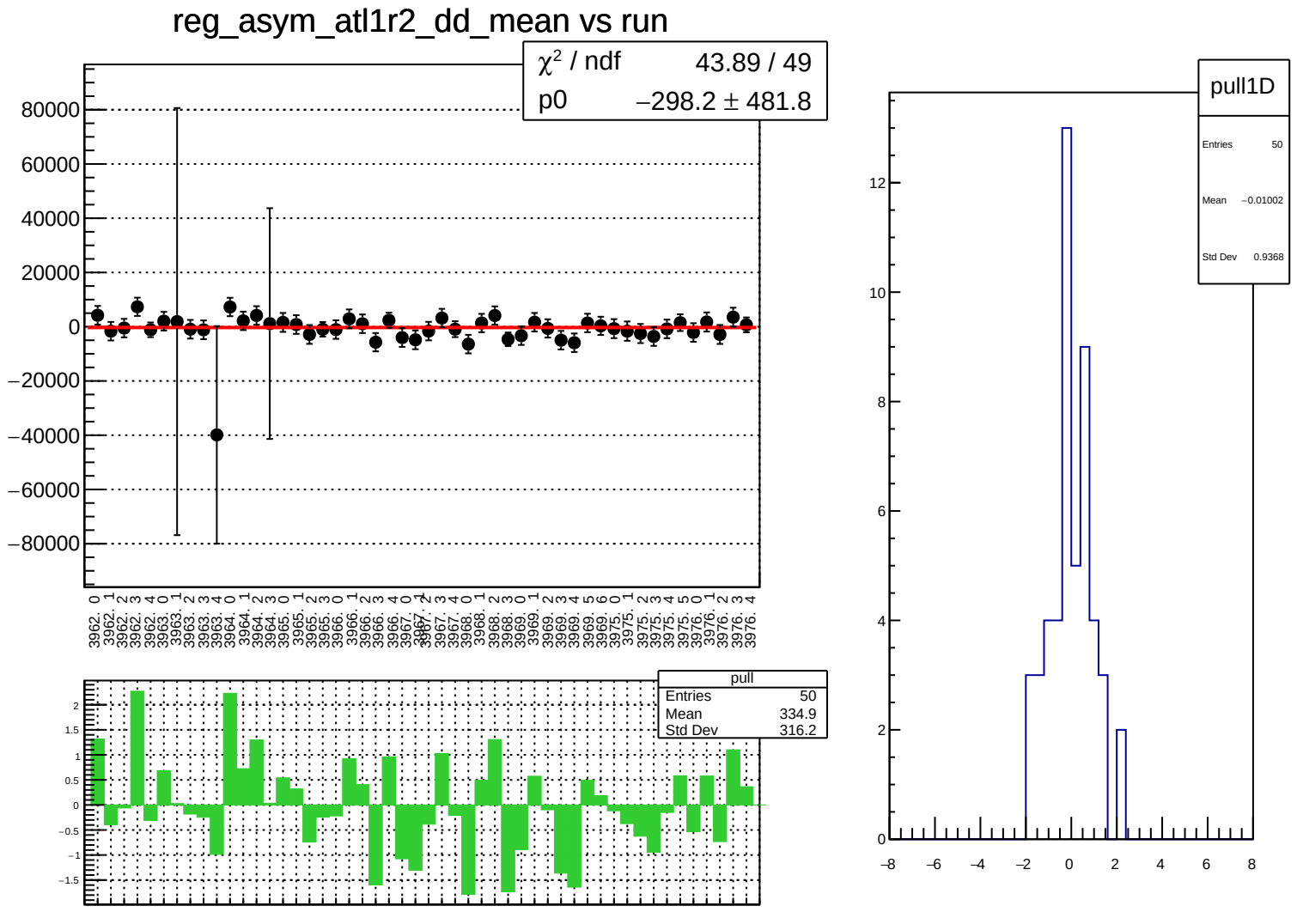

pull1D
Entries 50
Mean −0.006535
Std Dev 0.8914

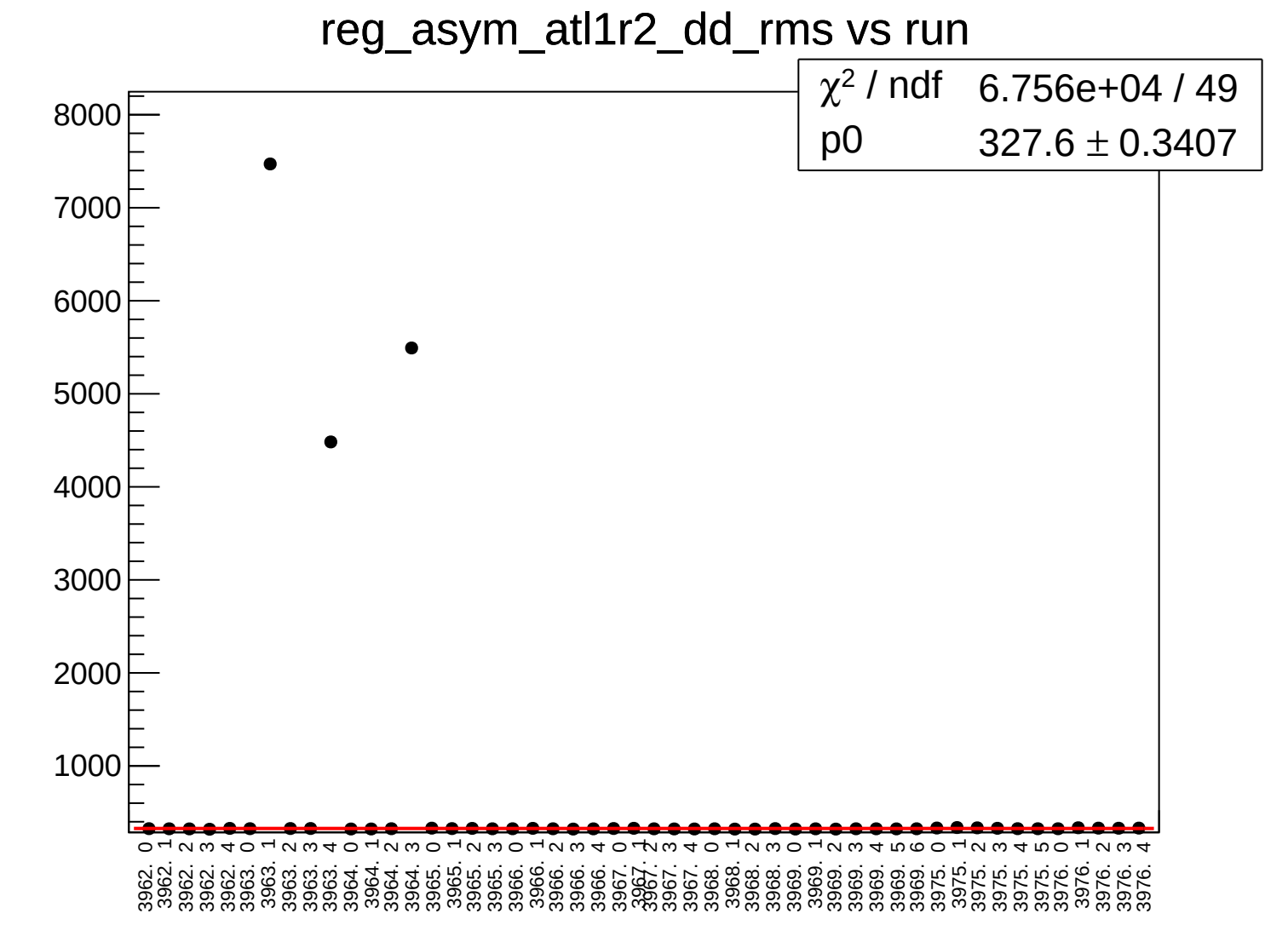

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2753 / 49
p0 1109 ± 1.115
1200
1150
1100
1050
1000
950
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

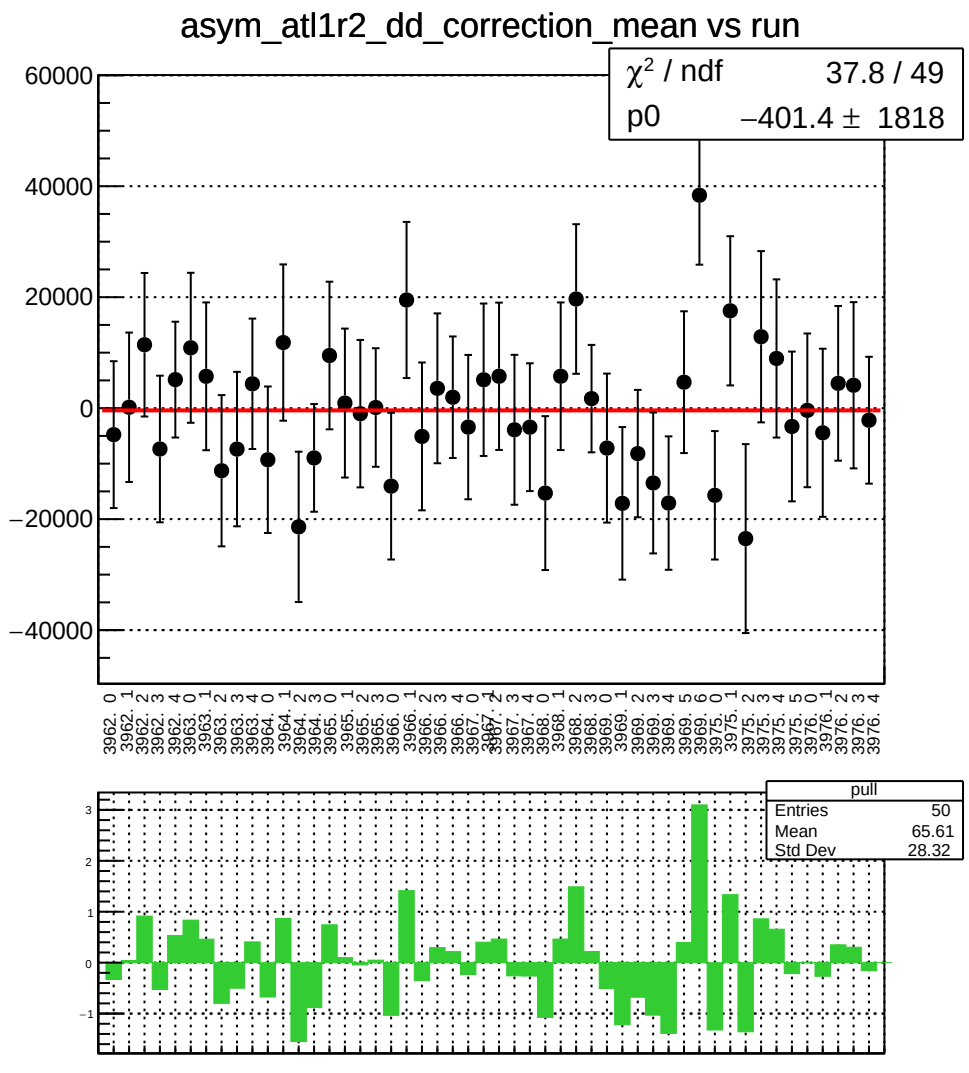

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 43.06 / 49
p0 1346 ± 1692
50
0
−50
−100
−150
pull
Entries 50
Mean −14.24
Std Dev 33.37
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

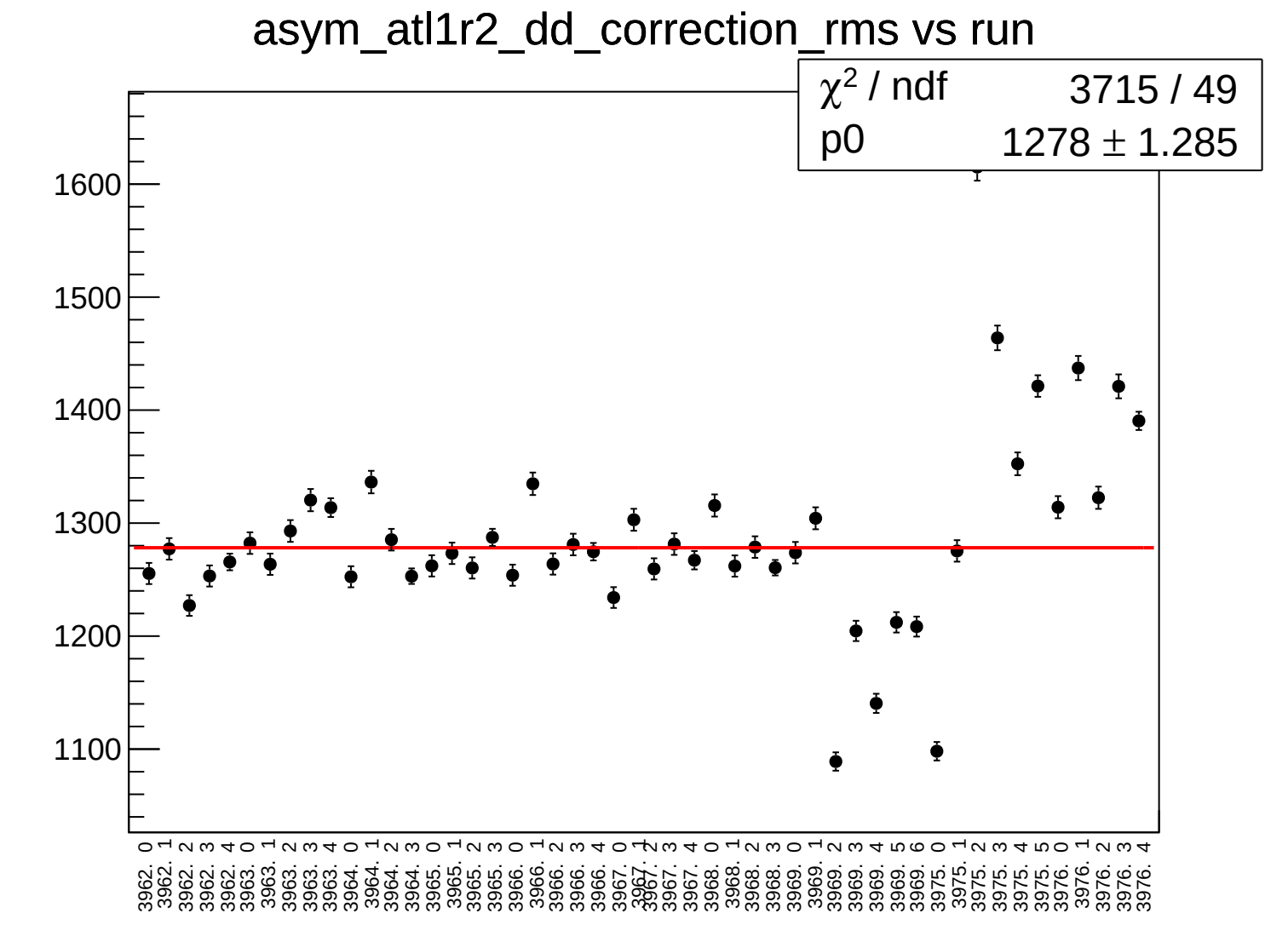

pull1D
Entries 50
Mean −0.05902
Std Dev 0.9262
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

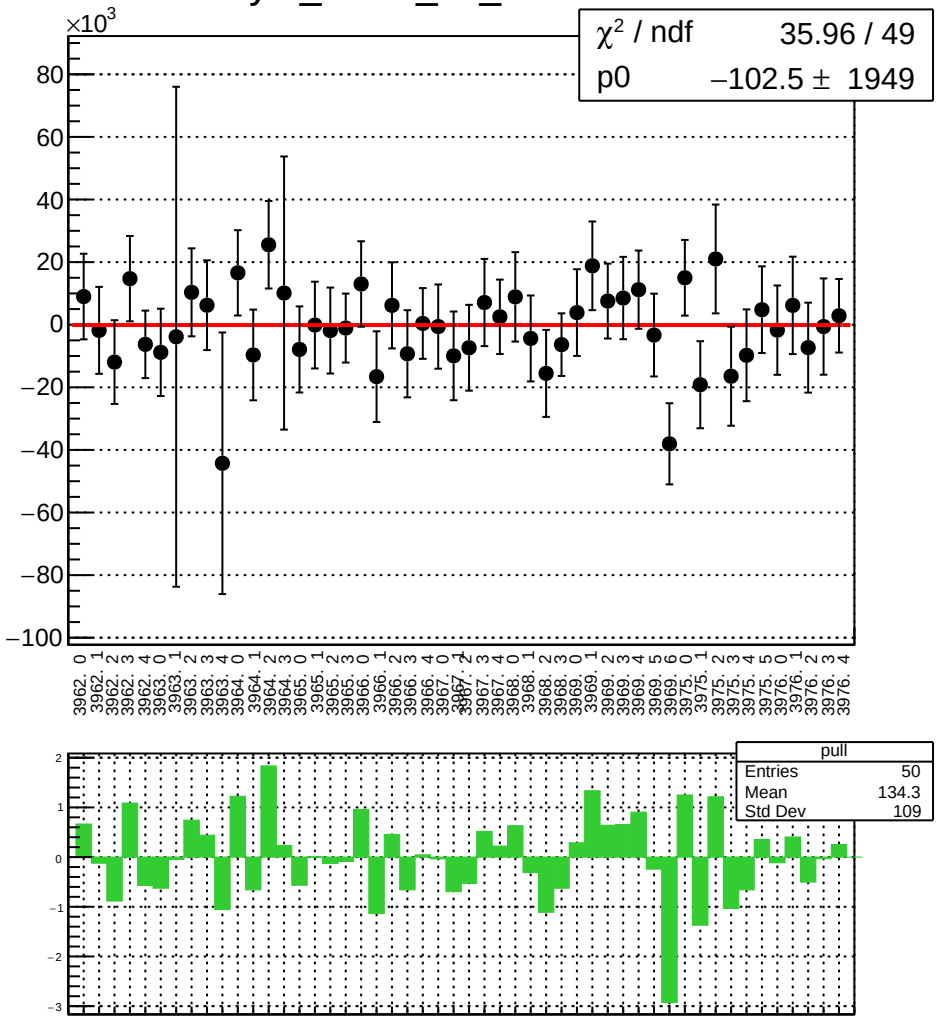

asym_atl1r2_avg_rms vs run
χ² / ndf 5.032e+04 / 49
p0 1161 ± 1.197
8000
7000
6000
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

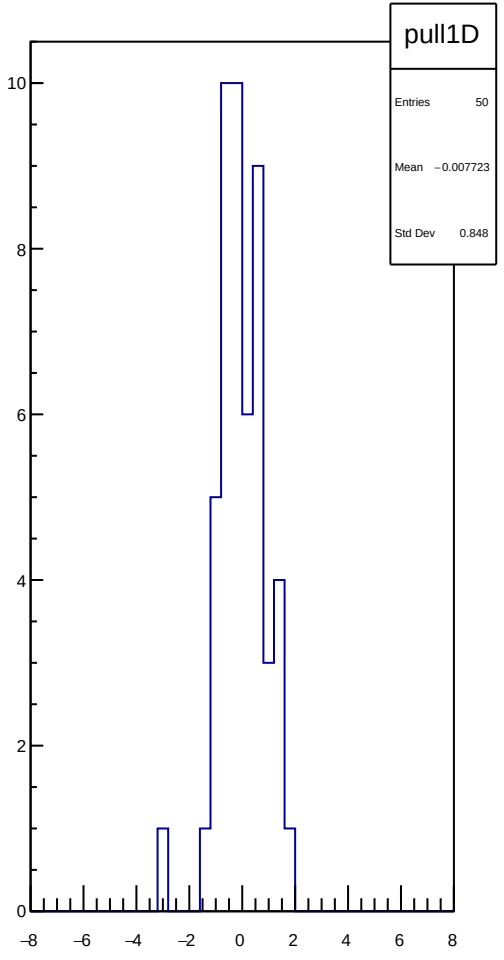

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 43.89 / 49
p0 −298.2 ± 481.8
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 334.9
Std Dev 316.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.01002
Std Dev 0.9368
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

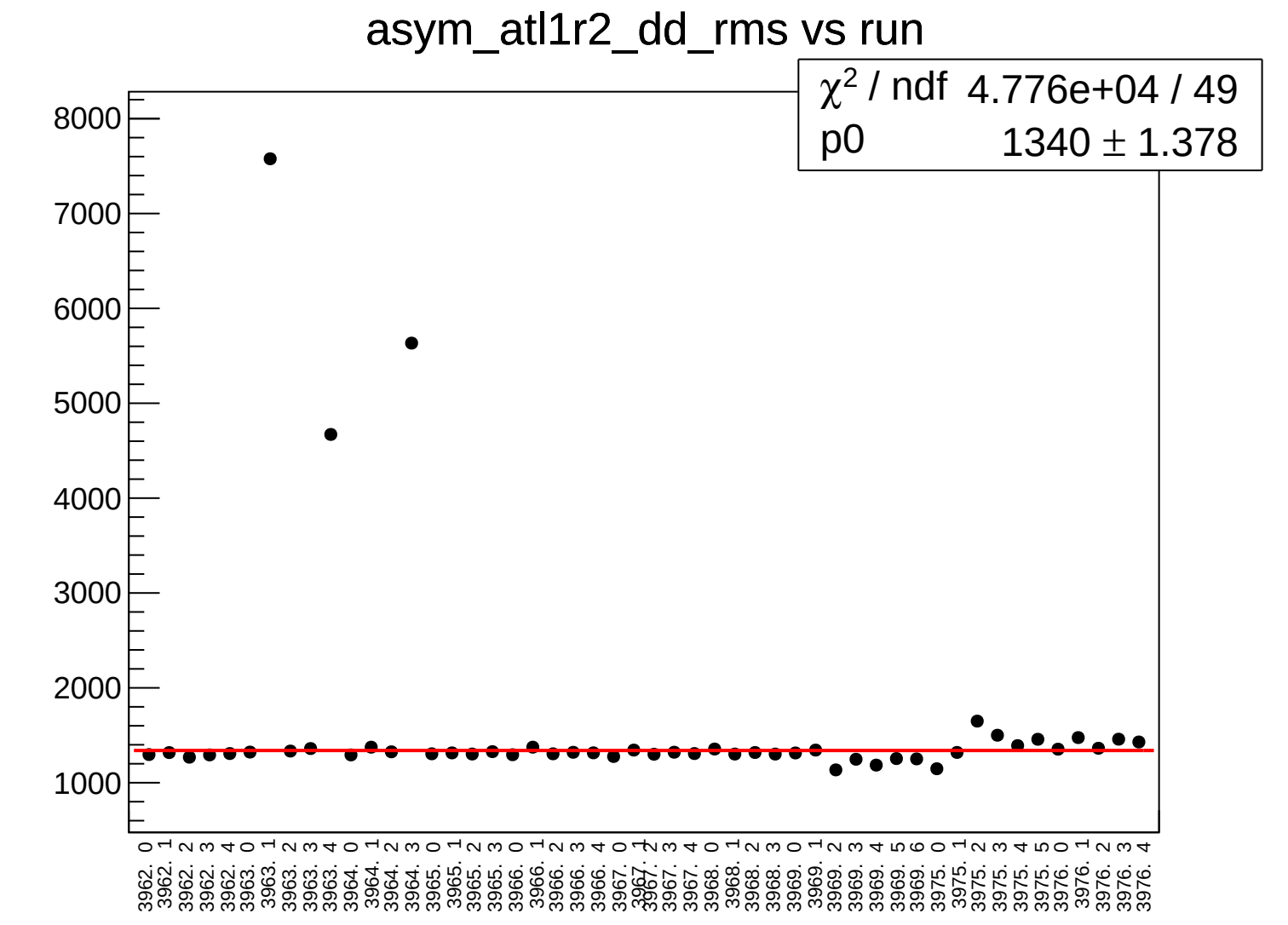

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 6.756e+04 / 49
p0 327.6 ± 0.3407
8000
7000
6000
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_atl1r2_dd_correction_mean vs run
χ² / ndf 37.8 / 49
p0 −401.4 ± 1818
60000
40000
20000
0
−20000
−40000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4
pull
Entries 50
Mean 65.61
Std Dev 28.32
3
2
1
0
−1
pull1D
Entries 50
Mean 0.004992
Std Dev 0.8694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3715 / 49
p0 1278 ± 1.285
1600
1500
1400
1300
1200
1100
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 35.96 / 49
p0 −102.5 ± 1949
pull
Entries 50
Mean 134.3
Std Dev 109


pull1D
Entries 50
Mean −0.007723
Std Dev 0.848


asym_atl1r2_dd_rms vs run
χ² / ndf 4.776e+04 / 49
p0 1340 ± 1.378
8000
7000
6000
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
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3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
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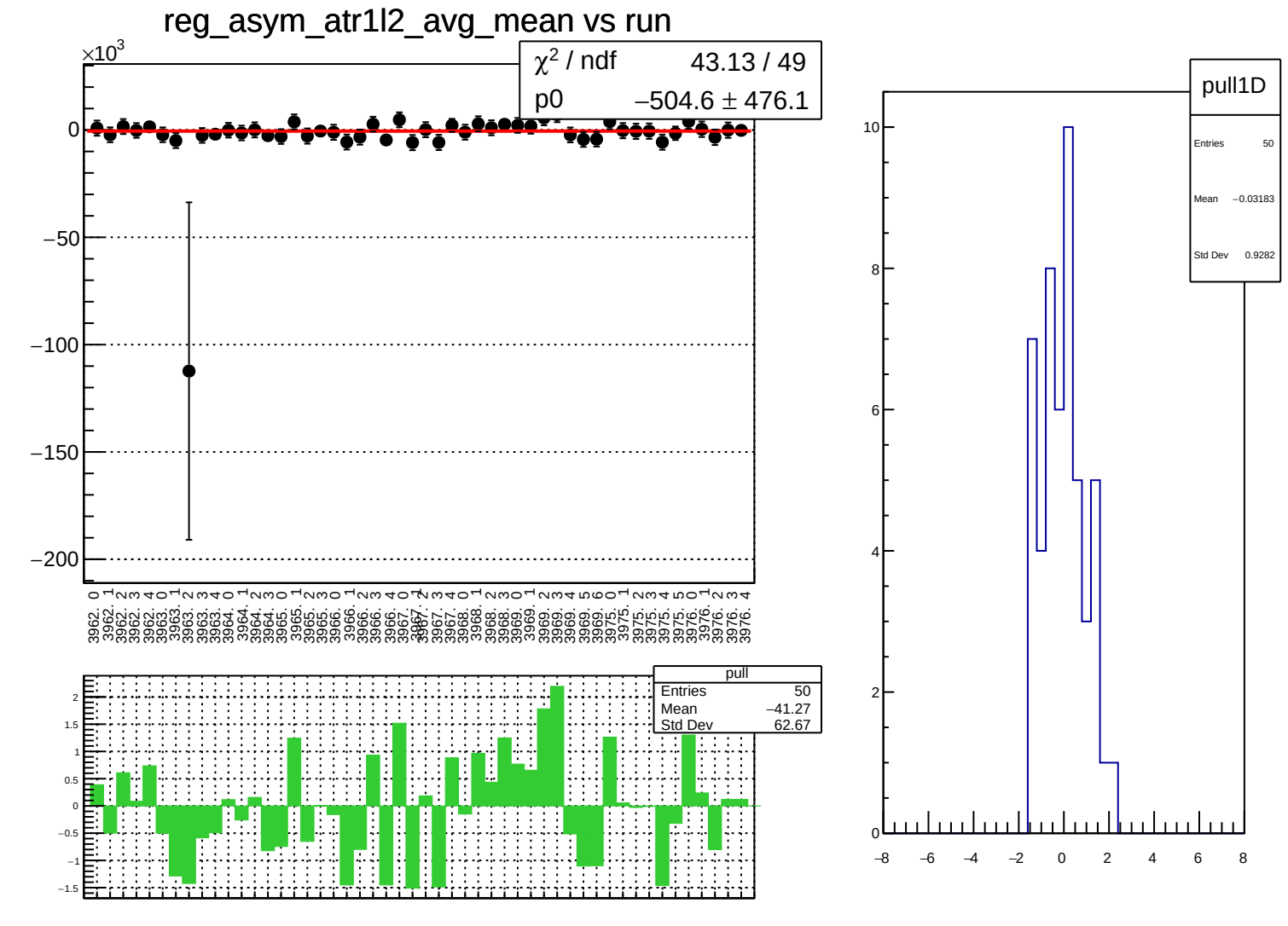
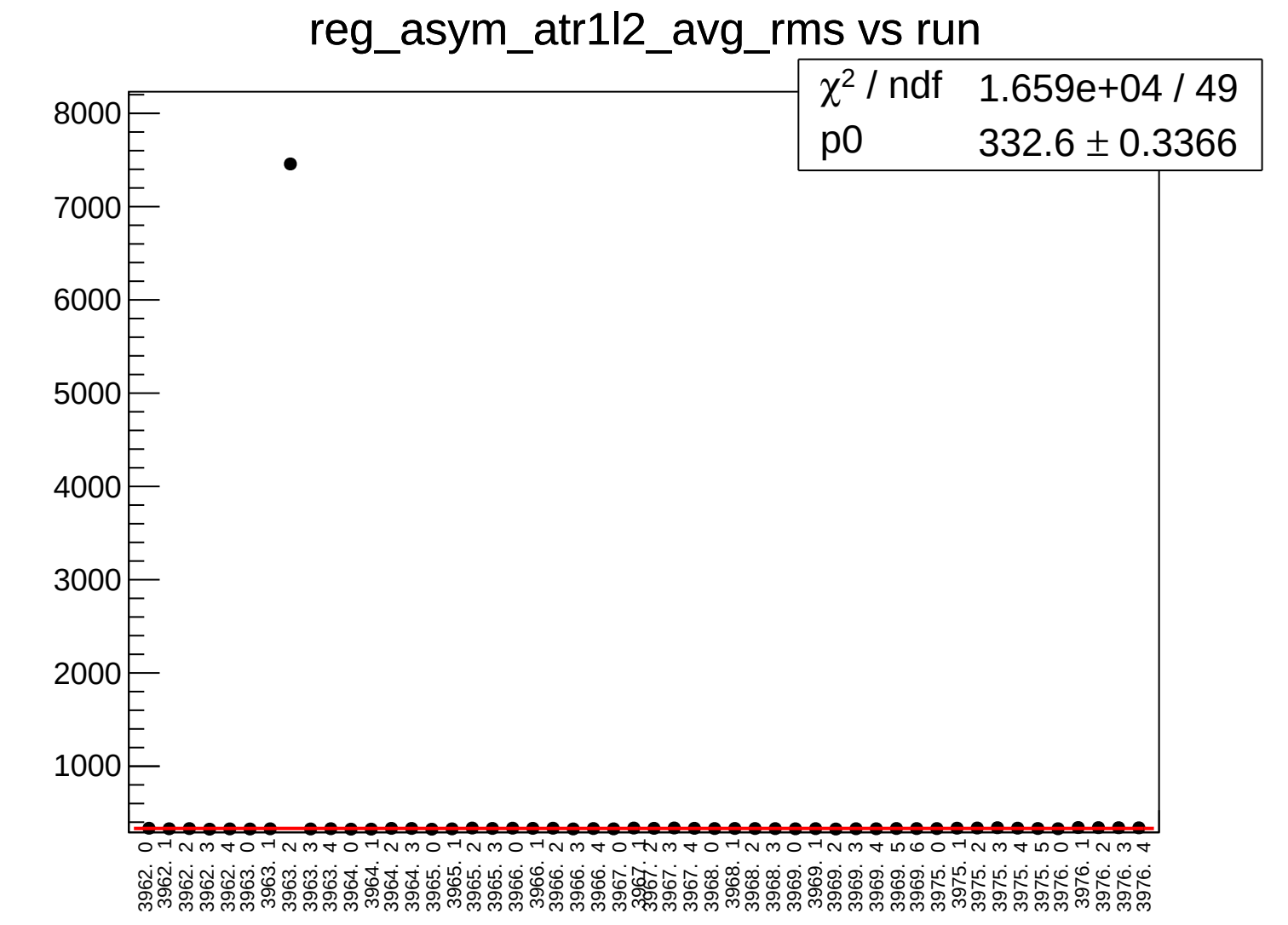
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 43.13 / 49
p0 −504.6 ± 476.1
pull
Entries 50
Mean −41.27
Std Dev 62.67
pull1D
Entries 50
Mean −0.03183
Std Dev 0.9282


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.659e+04 / 49
p0 332.6 ± 0.3366
8000
7000
6000
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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3975. 4
3975. 5
3976. 0
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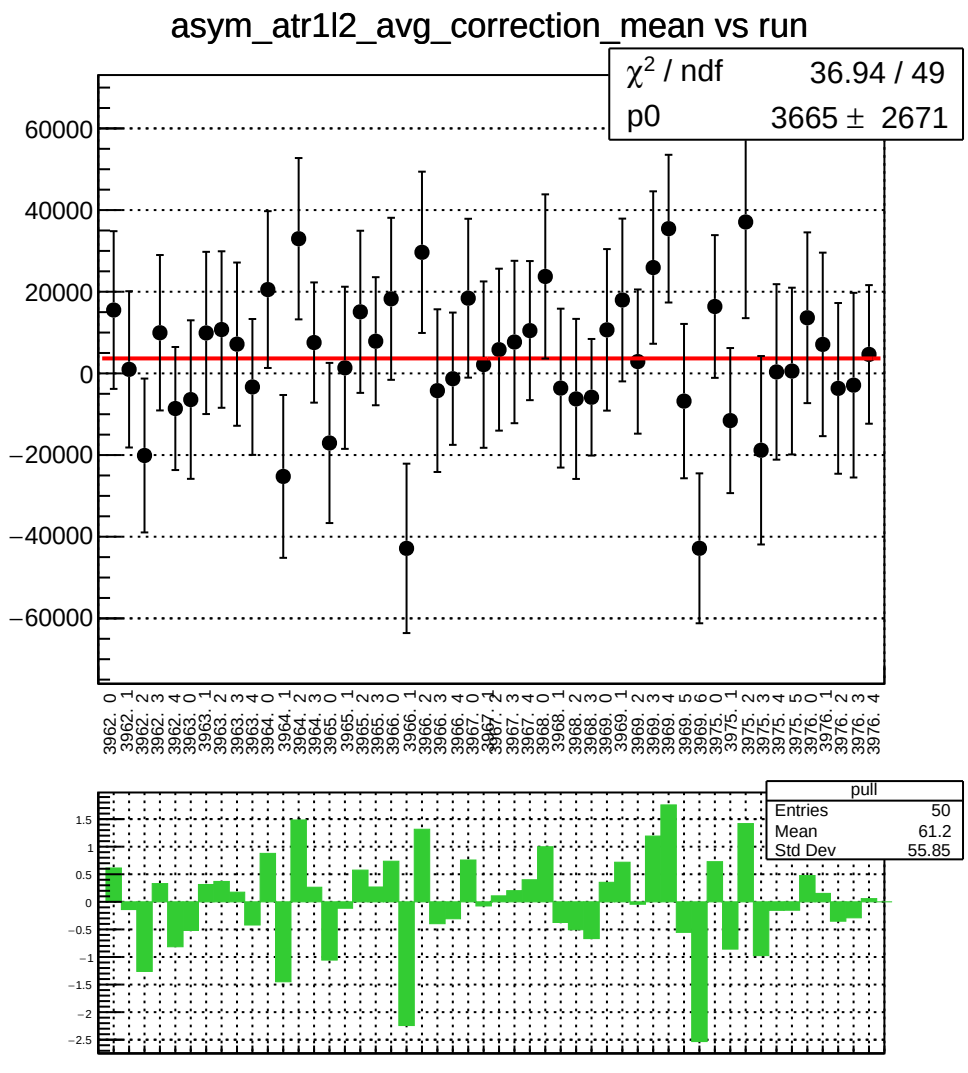
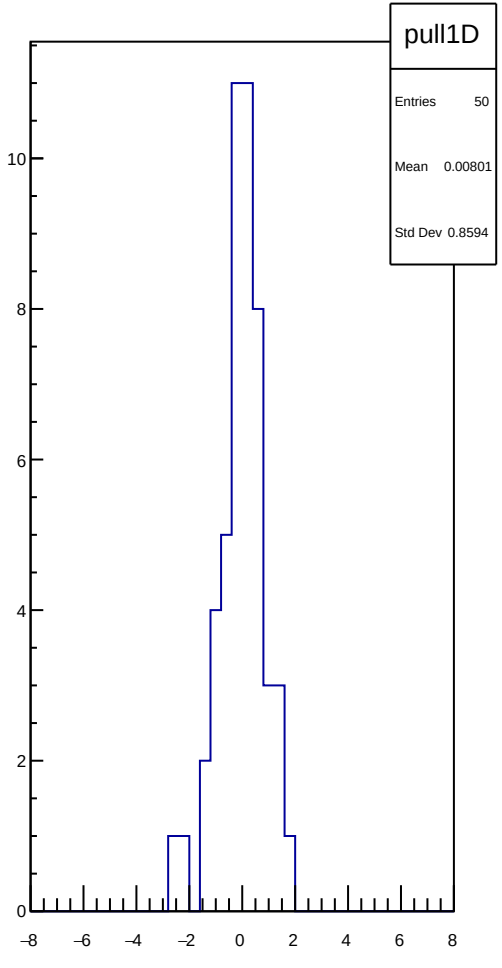
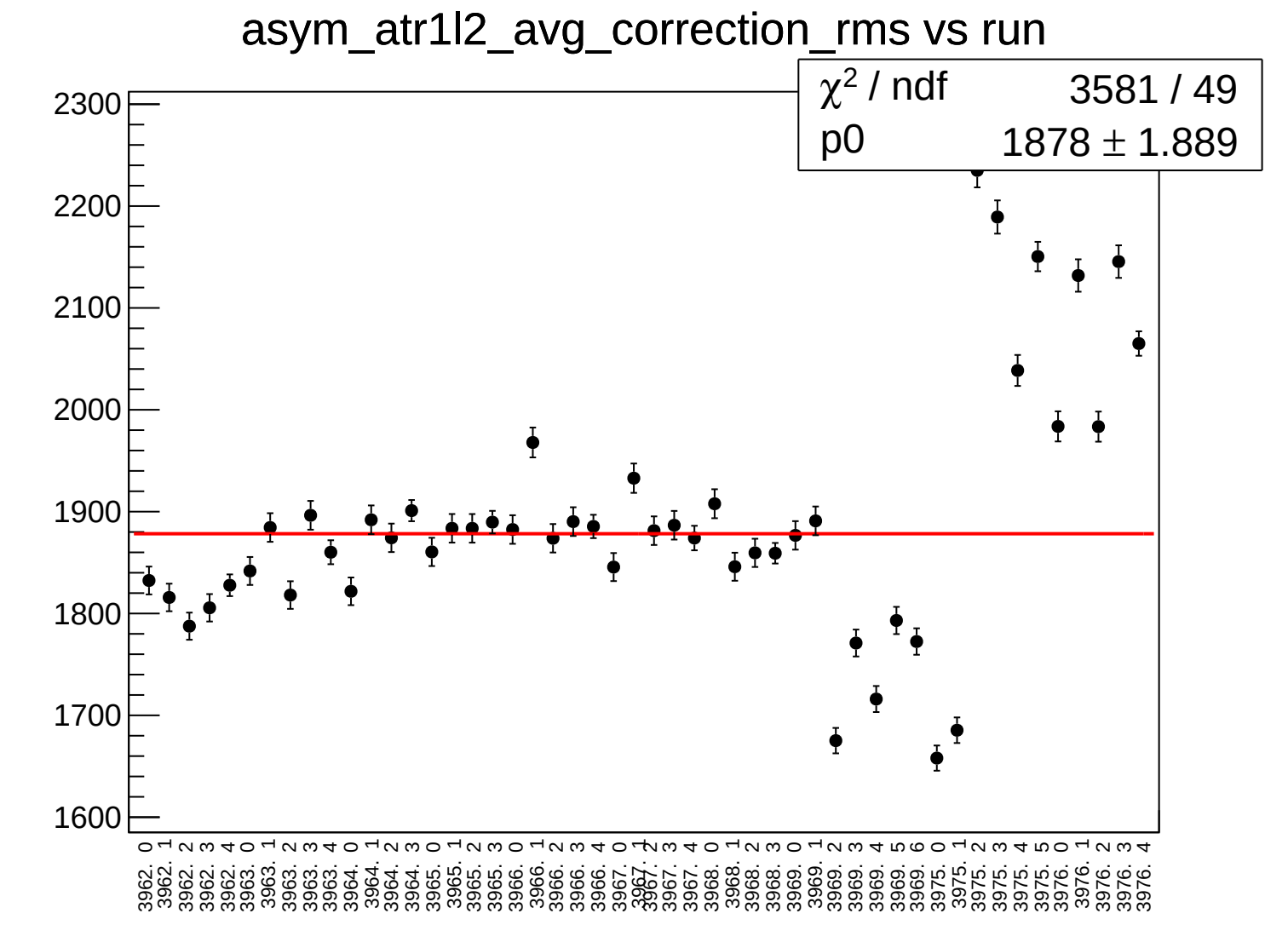
3976. 4


asym_atr1l2_avg_correction_mean vs run
χ² / ndf 36.94 / 49
p0 3665 ± 2671
pull
Entries 50
Mean 61.2
Std Dev 55.85


pull1D
Entries 50
Mean 0.00801
Std Dev 0.8594


asym_atr1l2_avg_correction_rms vs run
χ² / ndf 3581 / 49
p0 1878 ± 1.889
2300
2200
2100
2000
1900
1800
1700
1600
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
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3975. 3
3975. 4
3975. 5
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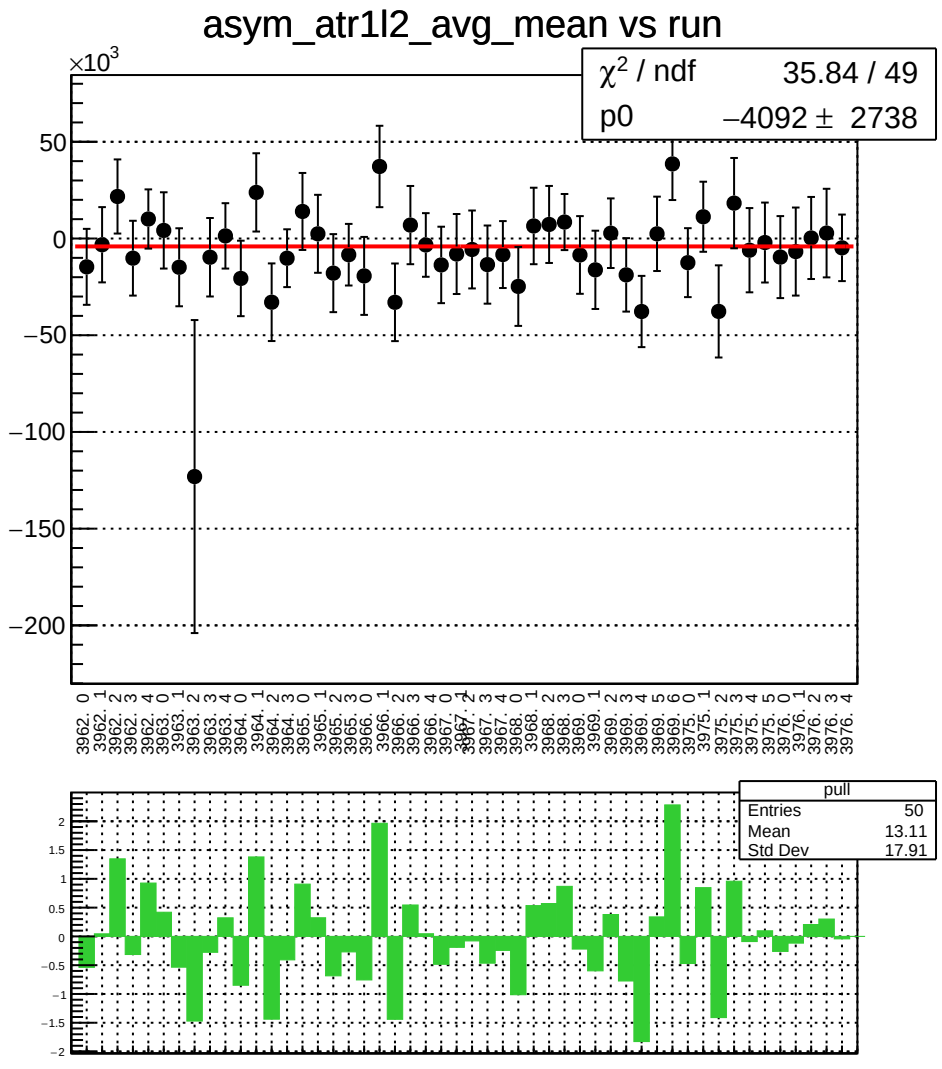
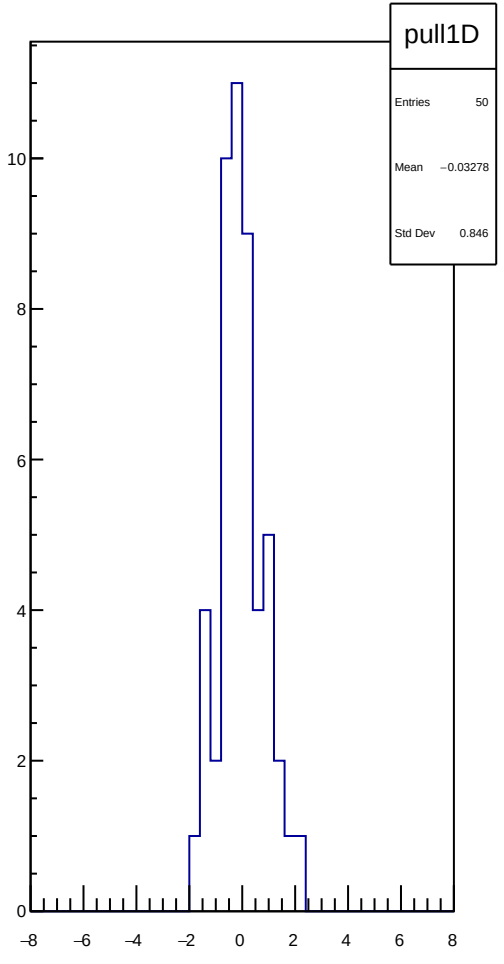
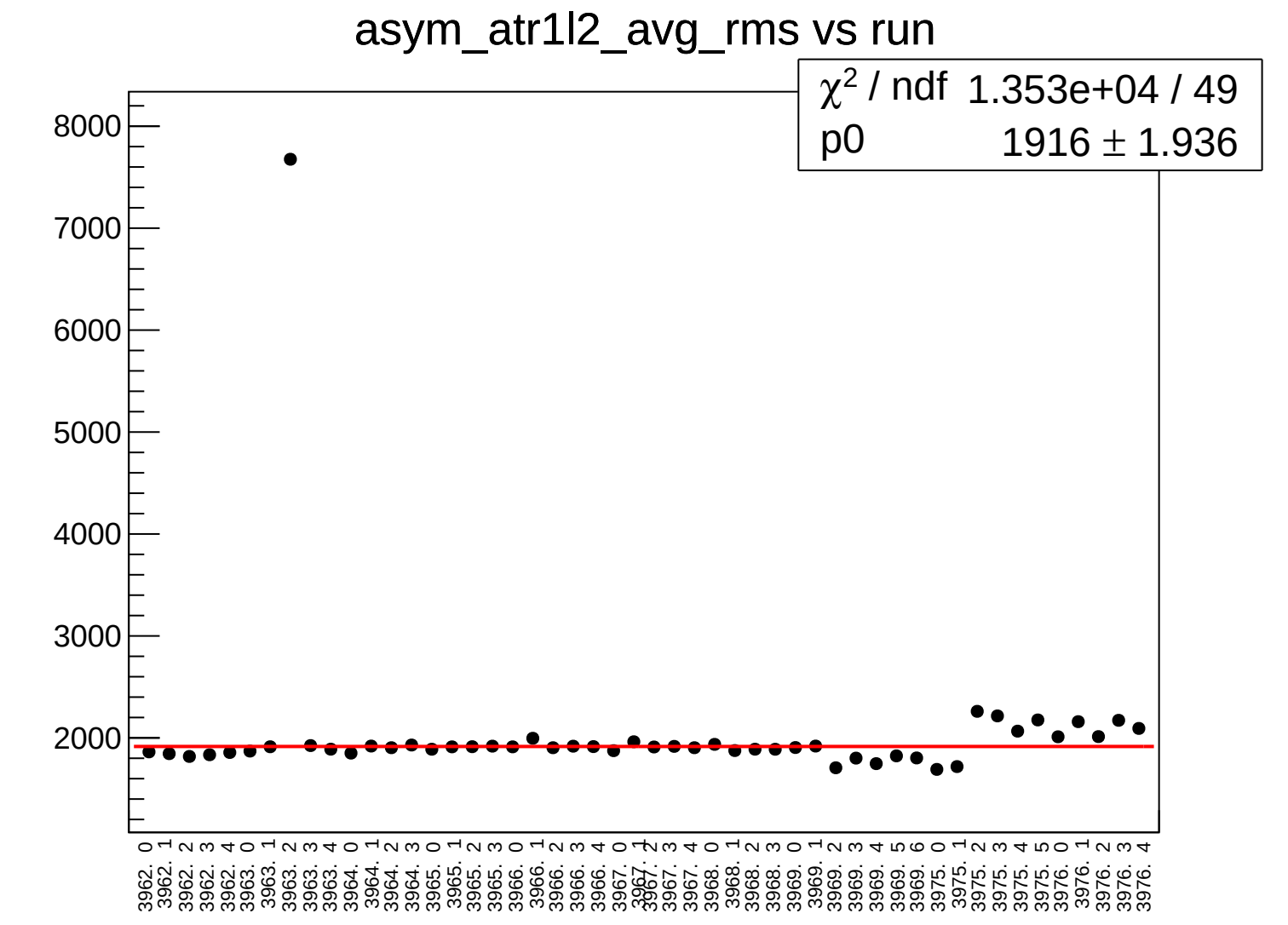
3976. 1
3976. 2
3976. 3
3976. 4


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 35.84 / 49
p0 −4092 ± 2738
50
0
−50
−100
−150
−200
pull
Entries 50
Mean 13.11
Std Dev 17.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.03278
Std Dev 0.846
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_rms vs run
χ² / ndf 1.353e+04 / 49
p0 1916 ± 1.936
8000
7000
6000
5000
4000
3000
2000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
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3963. 2
3963. 3
3963. 4
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3967. 2
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3969. 0
3969. 1
3969. 2
3969. 3
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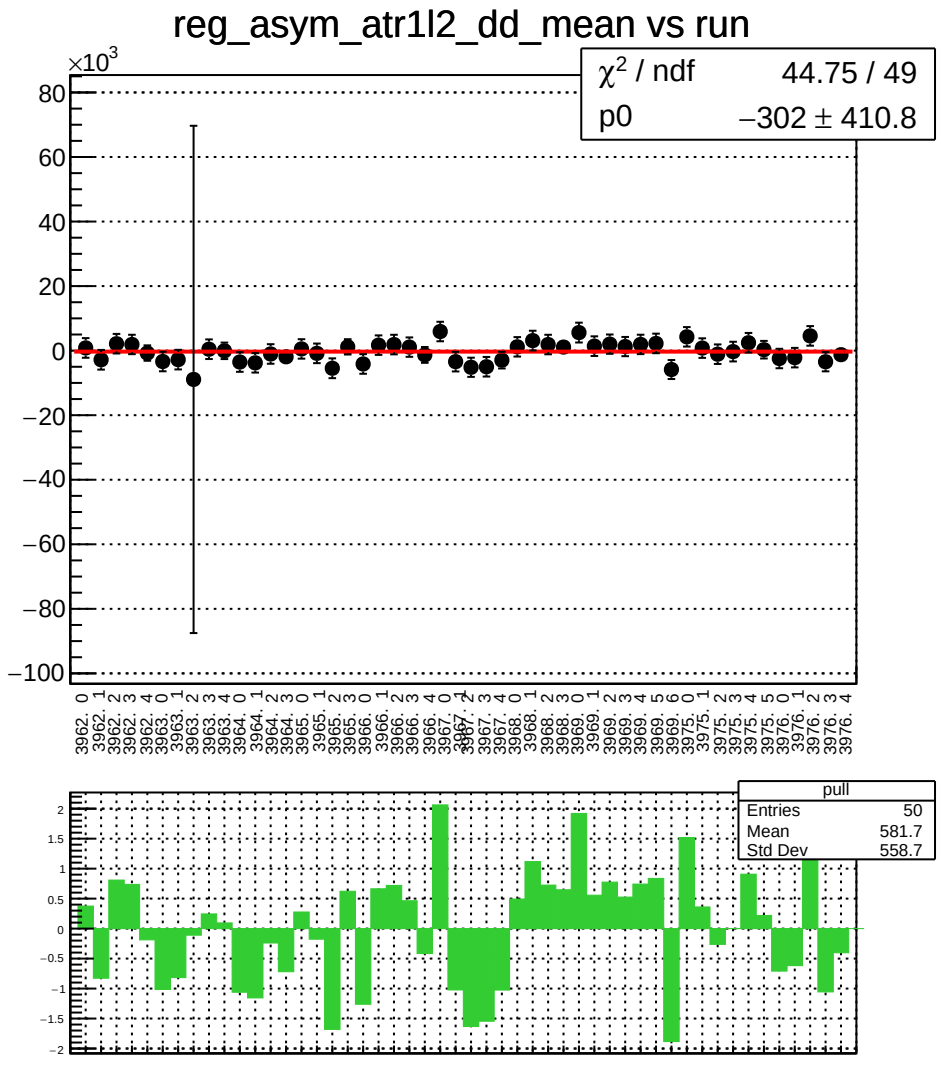
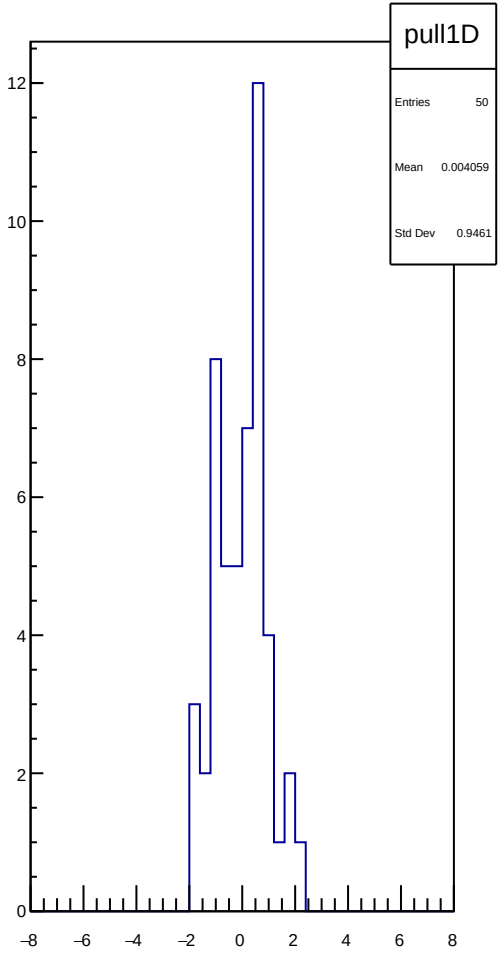
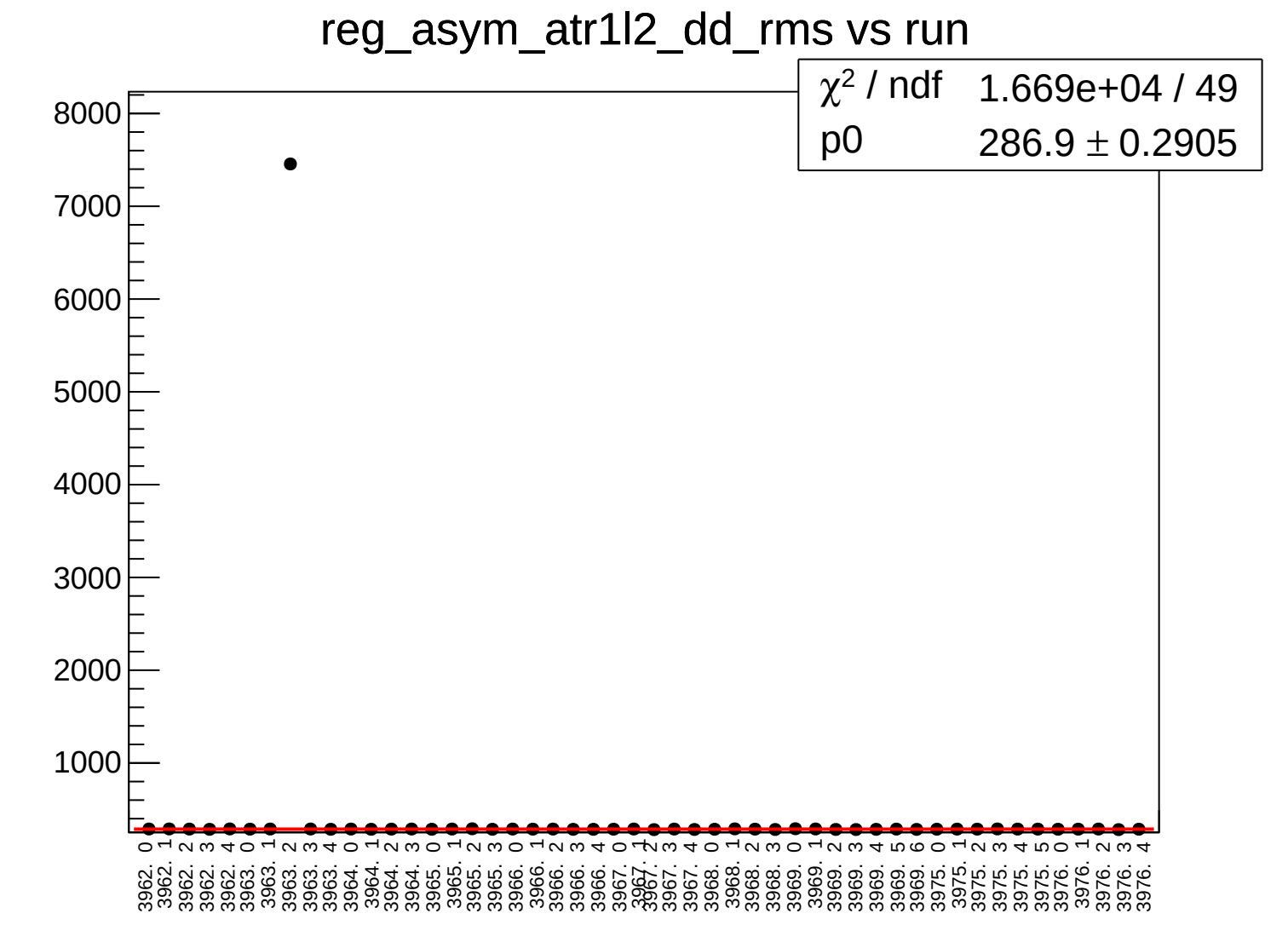
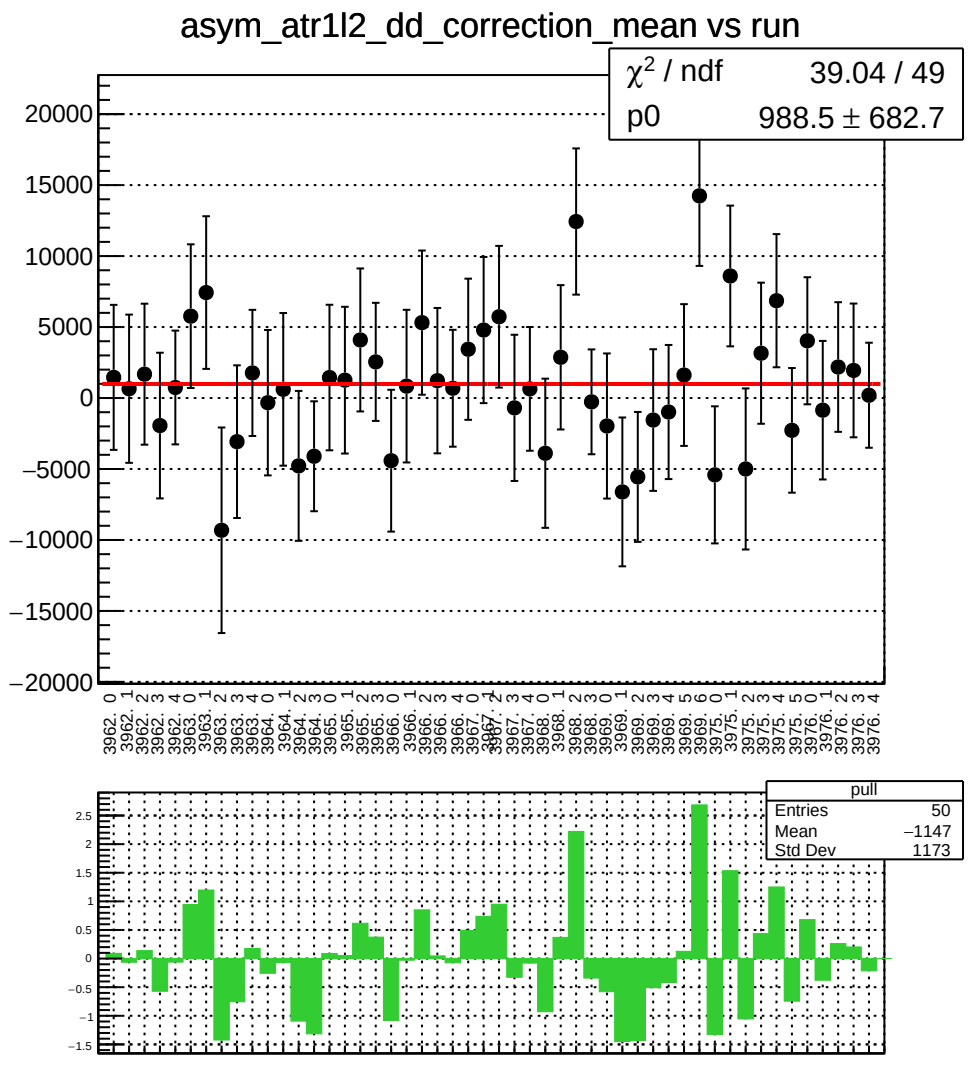
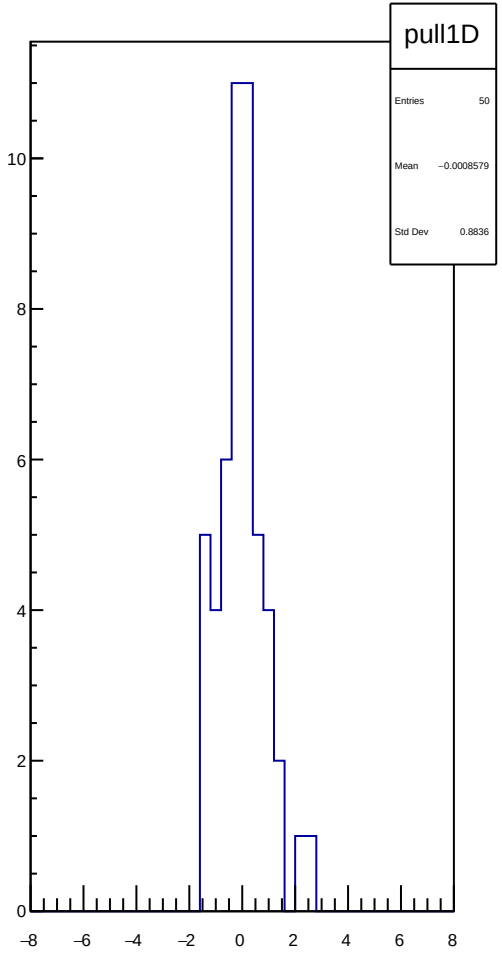
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

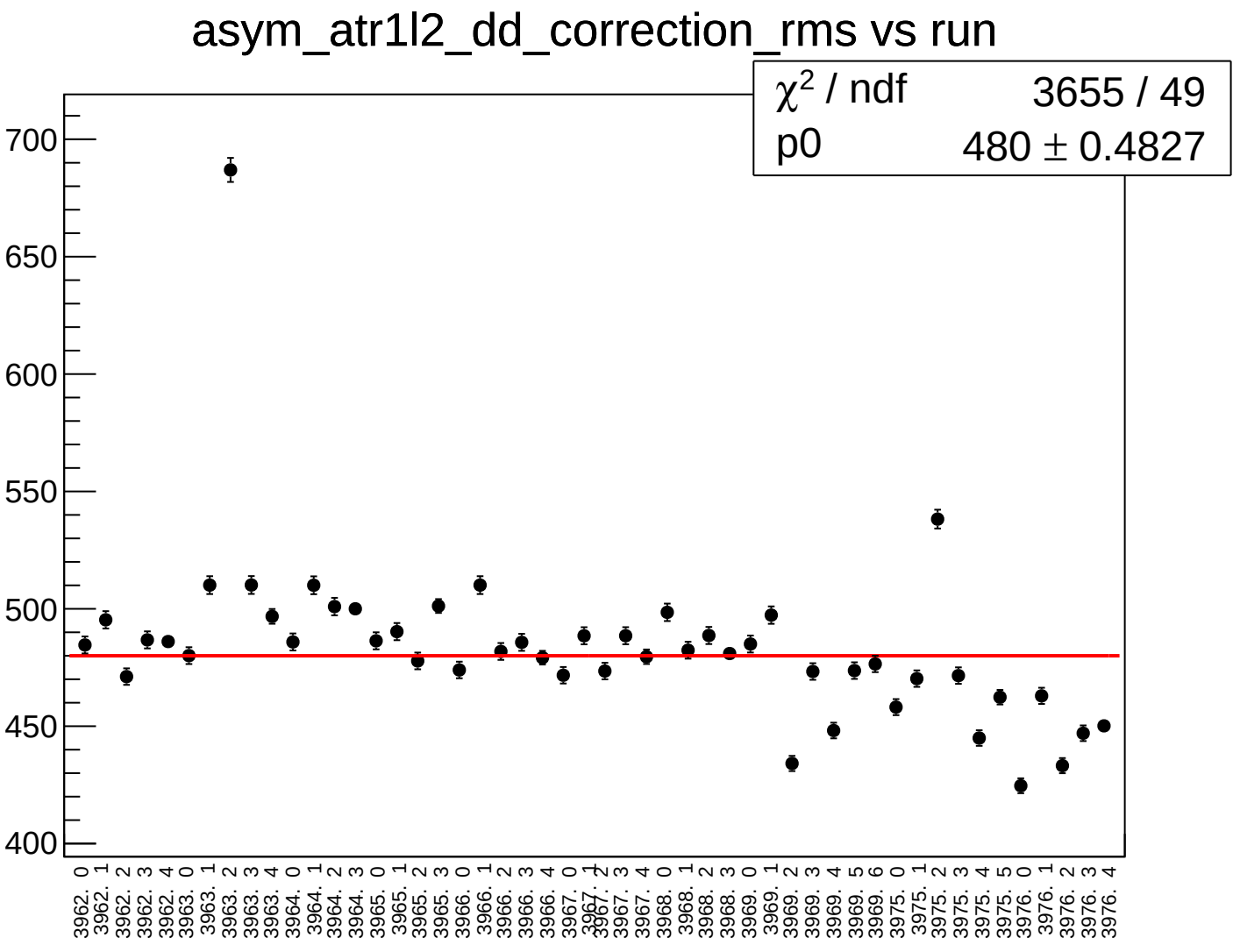

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 44.75 / 49
p0 −302 ± 410.8
×10³
pull
Entries 50
Mean 581.7
Std Dev 558.7

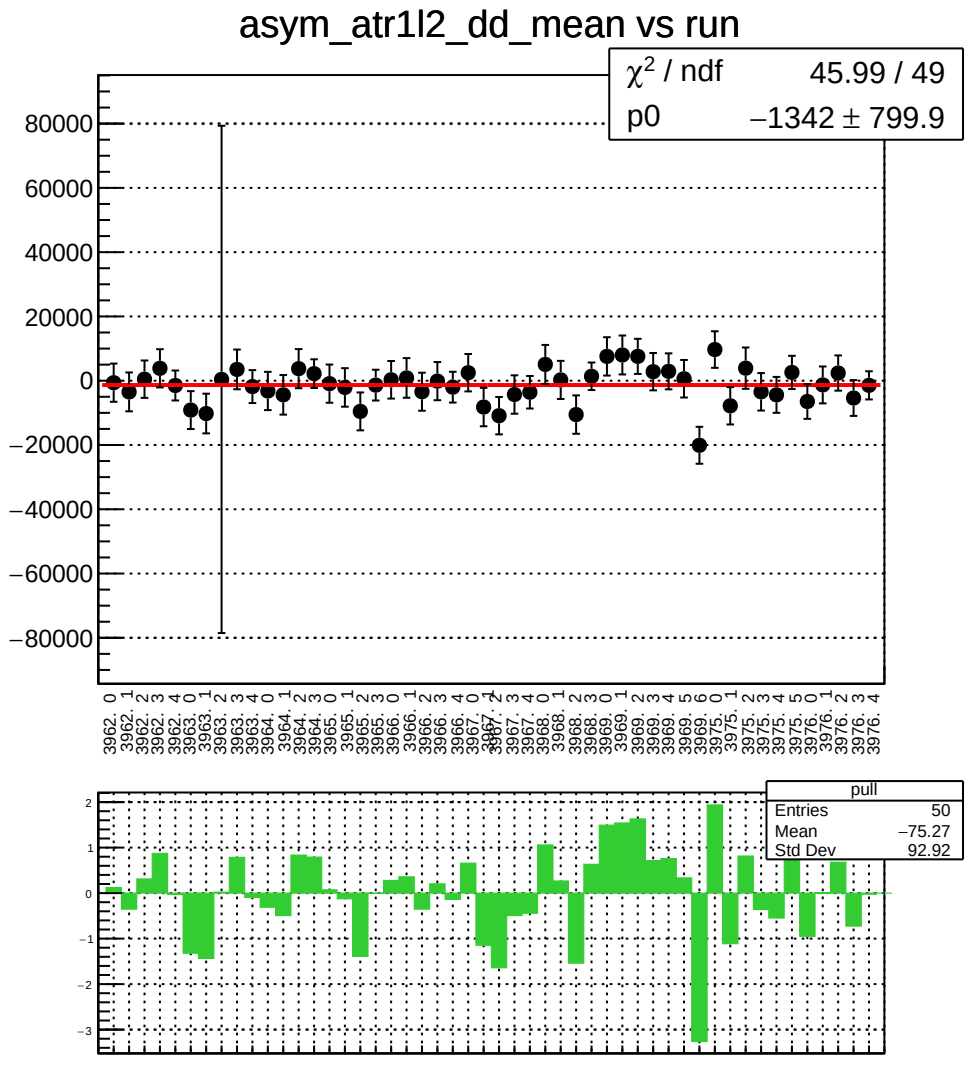

pull1D
Entries 50
Mean 0.004059
Std Dev 0.9461

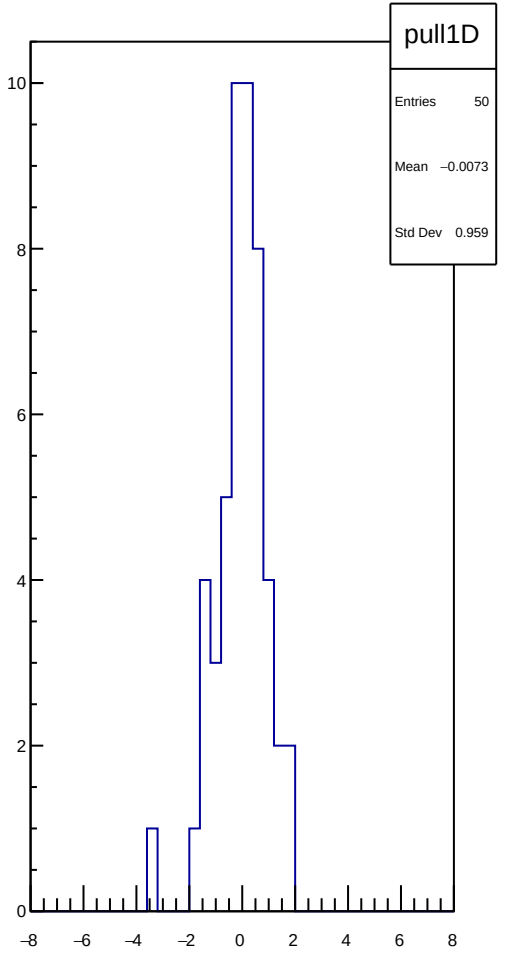

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.669e+04 / 49
p0 286.9 ± 0.2905
8000
7000
6000
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4

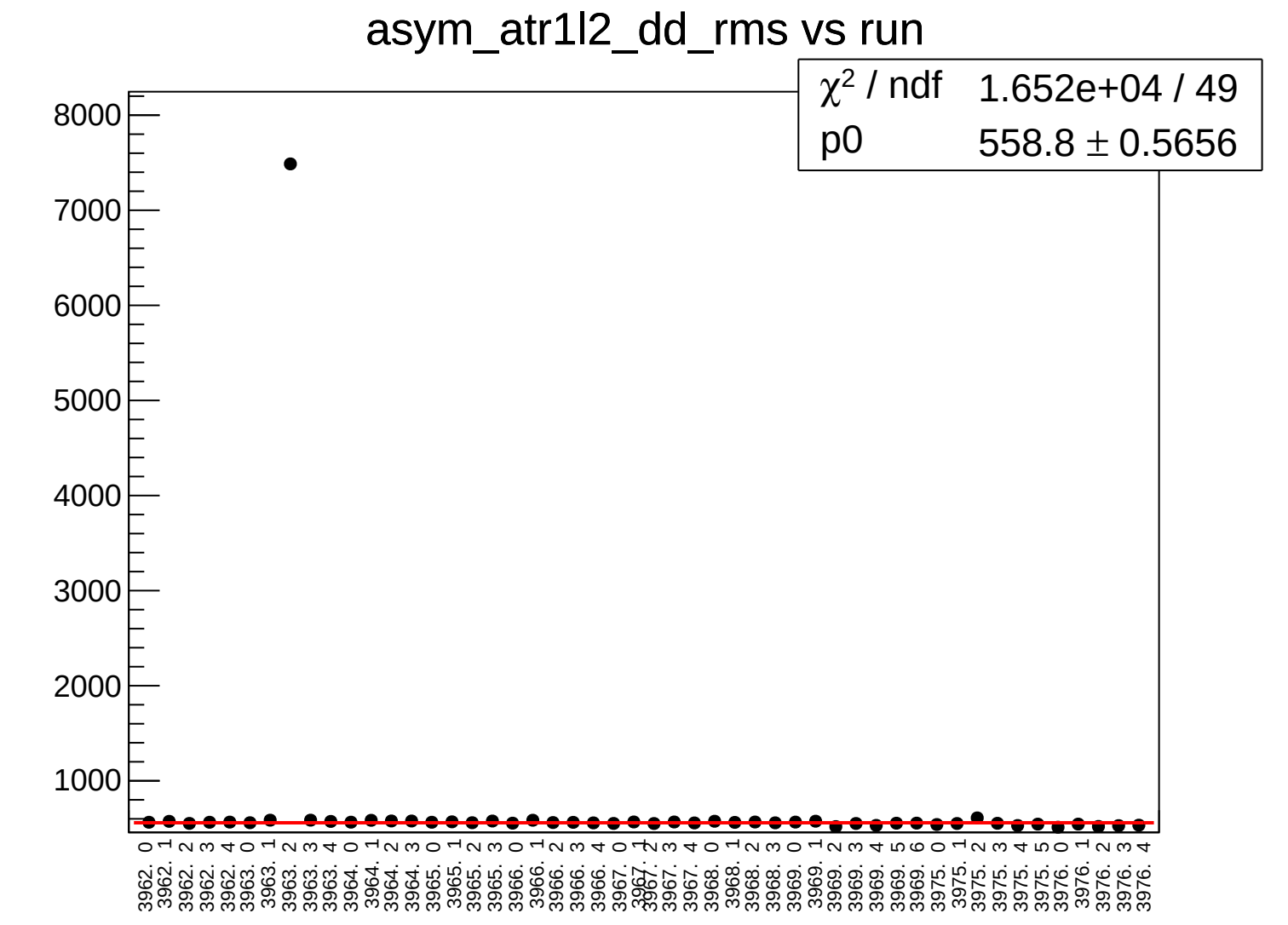

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 39.04 / 49
p0 988.5 ± 682.7
pull
Entries 50
Mean −1147
Std Dev 1173


pull1D
Entries 50
Mean −0.0008579
Std Dev 0.8836


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 3655 / 49
p0 480 ± 0.4827
700
650
600
550
500
450
400
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4


asym_atr1l2_dd_mean vs run
χ² / ndf 45.99 / 49
p0 −1342 ± 799.9
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 50
Mean −75.27
Std Dev 92.92


pull1D
Entries 50
Mean −0.0073
Std Dev 0.959


asym_atr1l2_dd_rms vs run
χ² / ndf 1.652e+04 / 49
p0 558.8 ± 0.5656
8000
7000
6000
5000
4000
3000
2000
1000
3962. 0
3962. 1
3962. 2
3962. 3
3962. 4
3963. 0
3963. 1
3963. 2
3963. 3
3963. 4
3964. 0
3964. 1
3964. 2
3964. 3
3965. 0
3965. 1
3965. 2
3965. 3
3966. 0
3966. 1
3966. 2
3966. 3
3966. 4
3967. 0
3967. 1
3967. 2
3967. 3
3967. 4
3968. 0
3968. 1
3968. 2
3968. 3
3969. 0
3969. 1
3969. 2
3969. 3
3969. 4
3969. 5
3969. 6
3975. 0
3975. 1
3975. 2
3975. 3
3975. 4
3975. 5
3976. 0
3976. 1
3976. 2
3976. 3
3976. 4