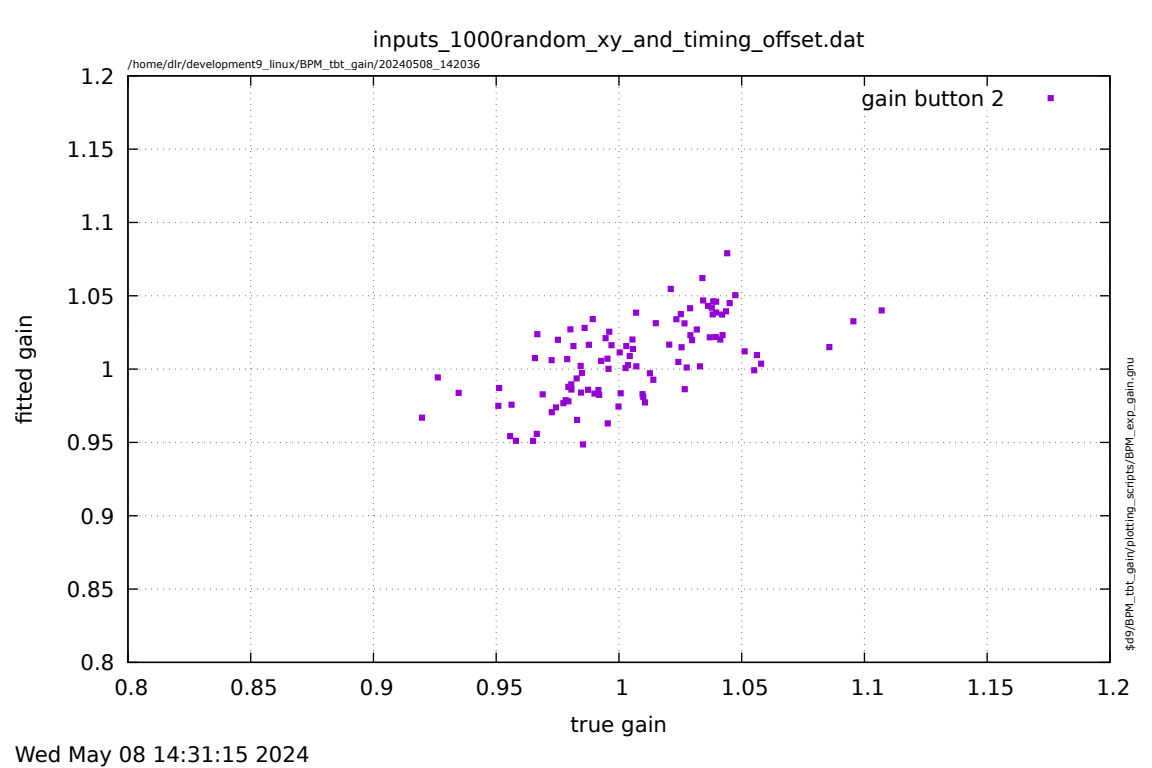
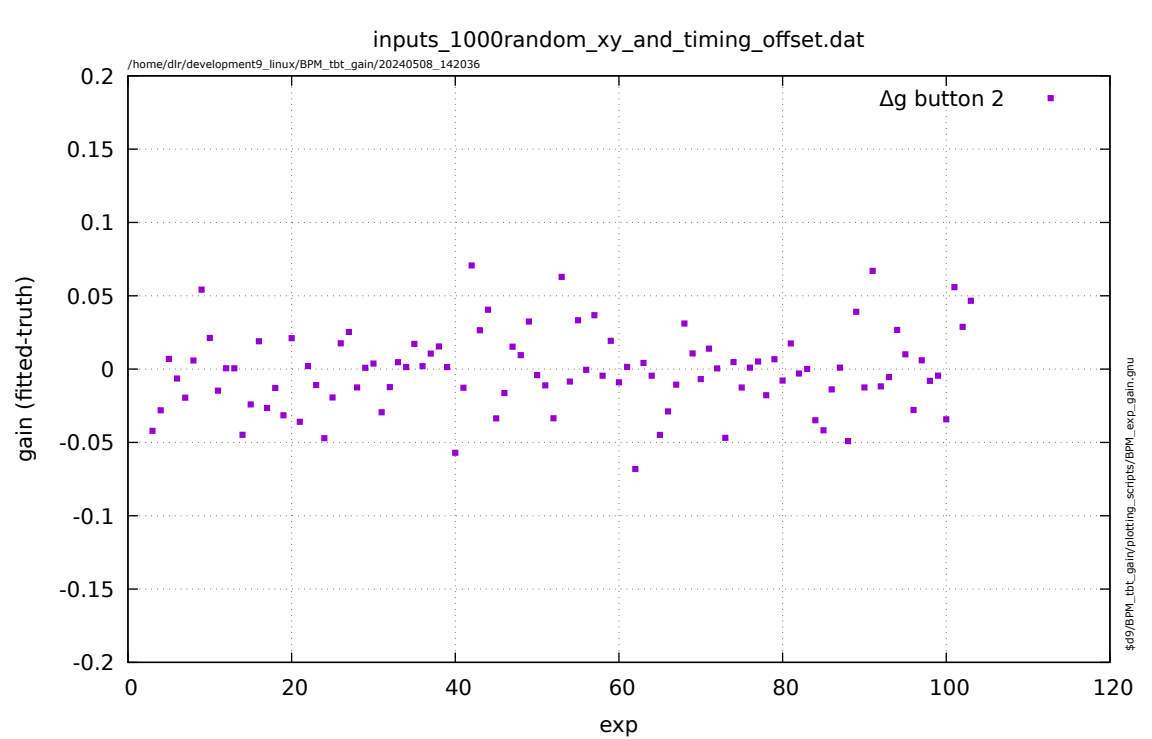
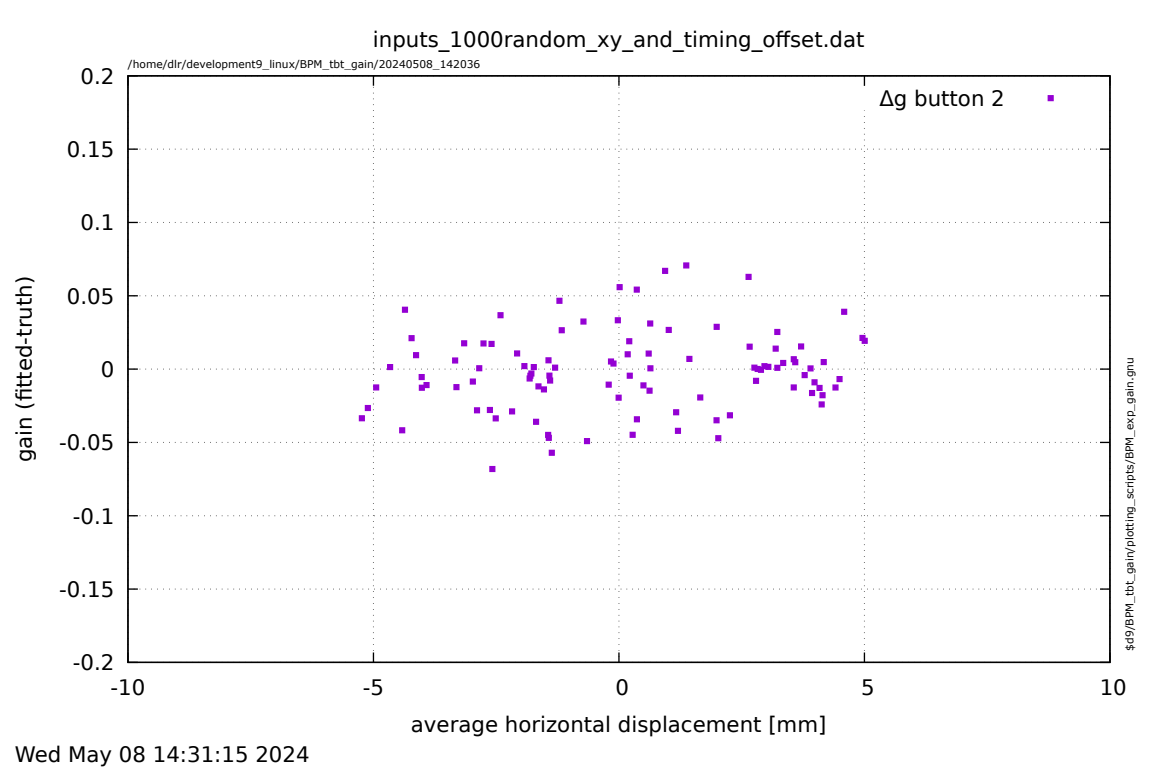
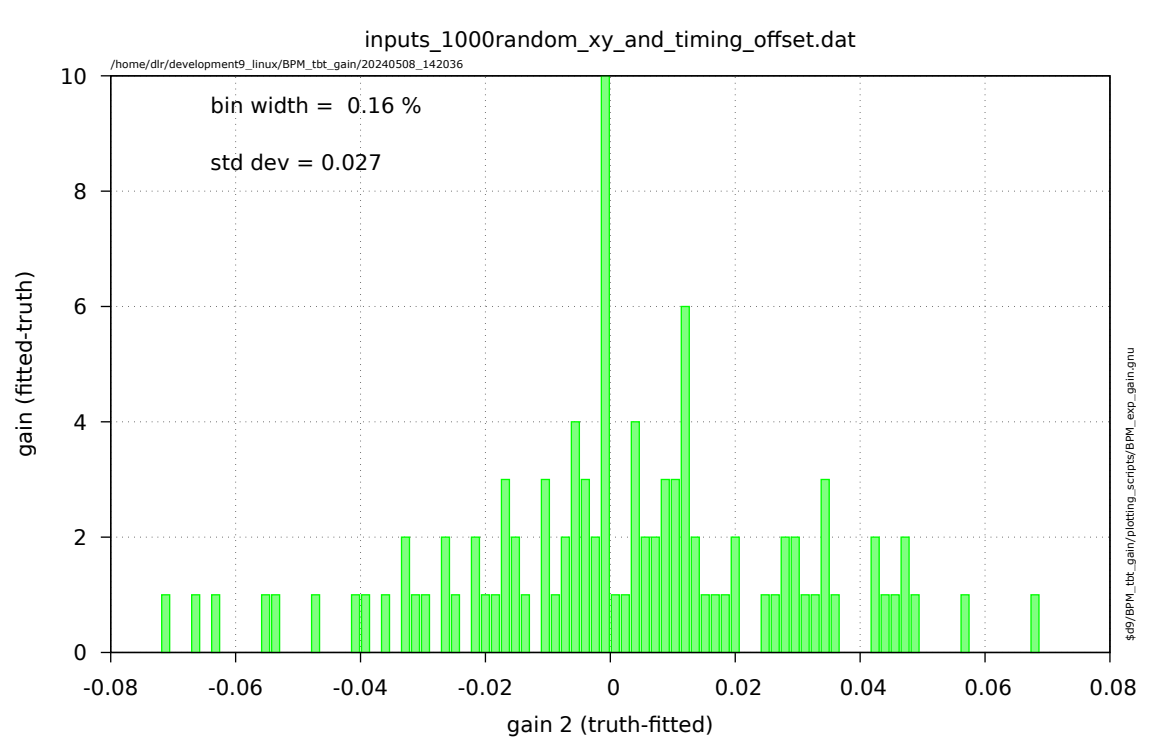
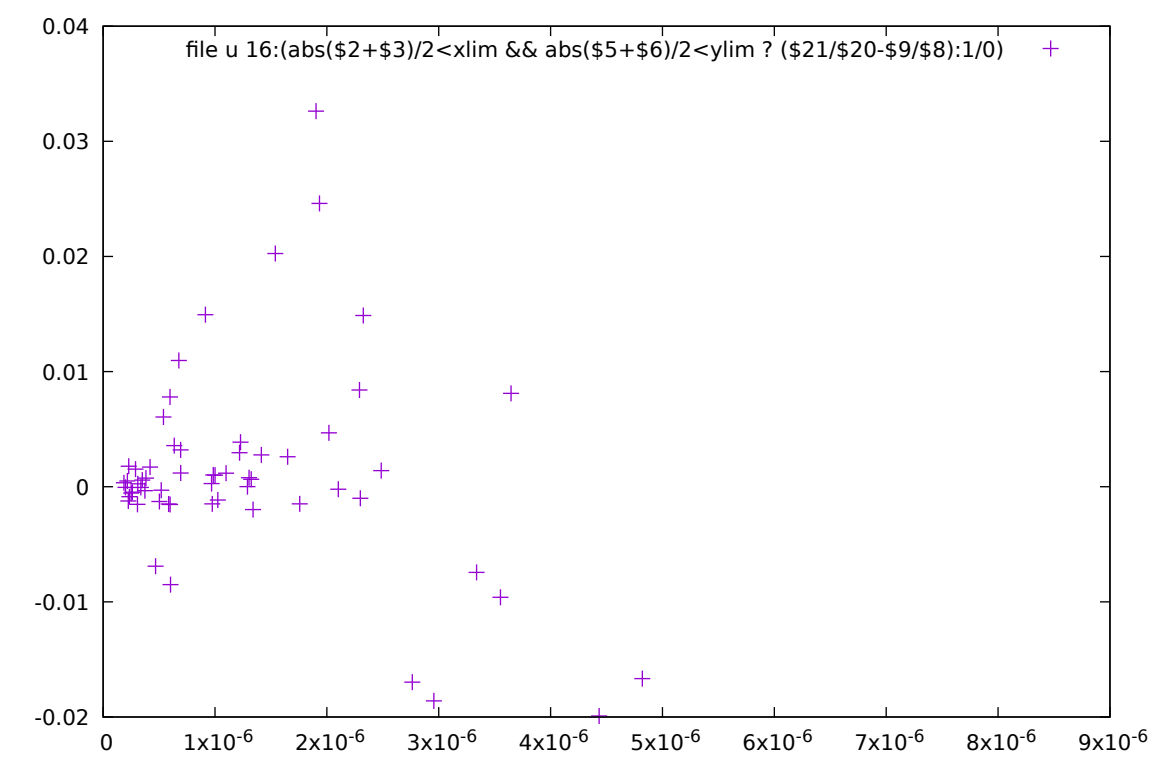
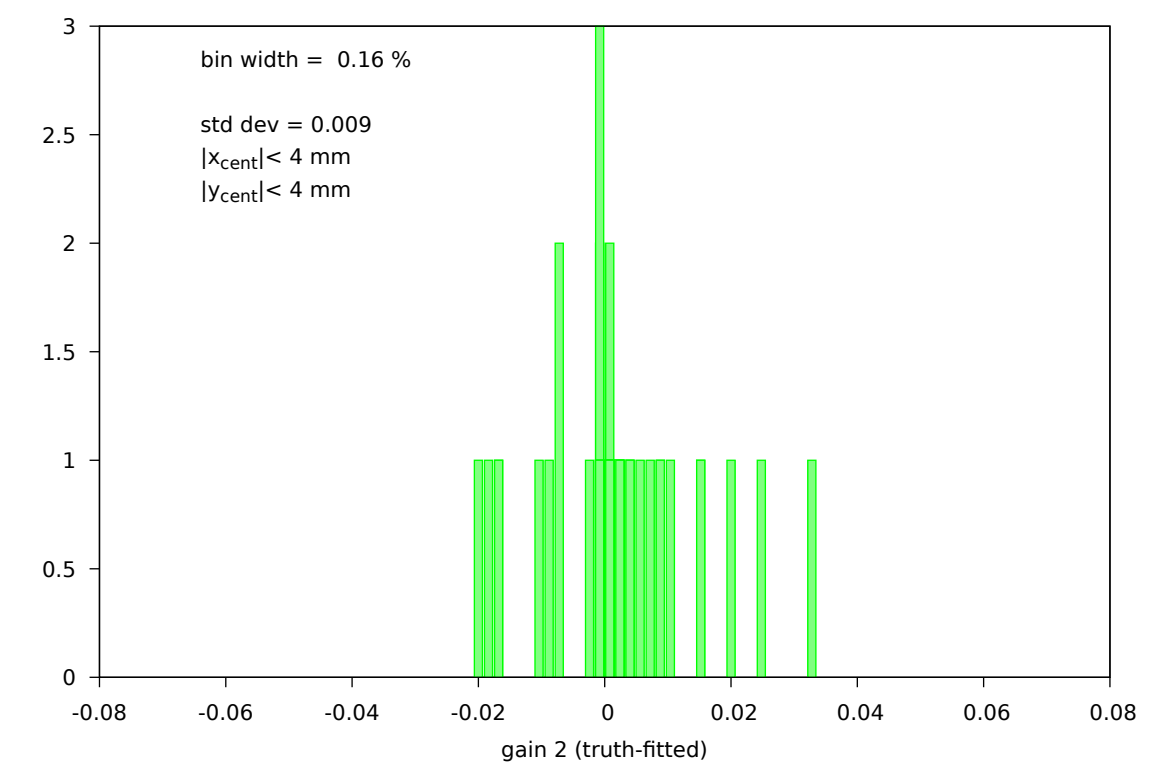

inputs_1000random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240508_142036
gain button 2
fitted gain
true gain
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Wed May 08 14:31:15 2024

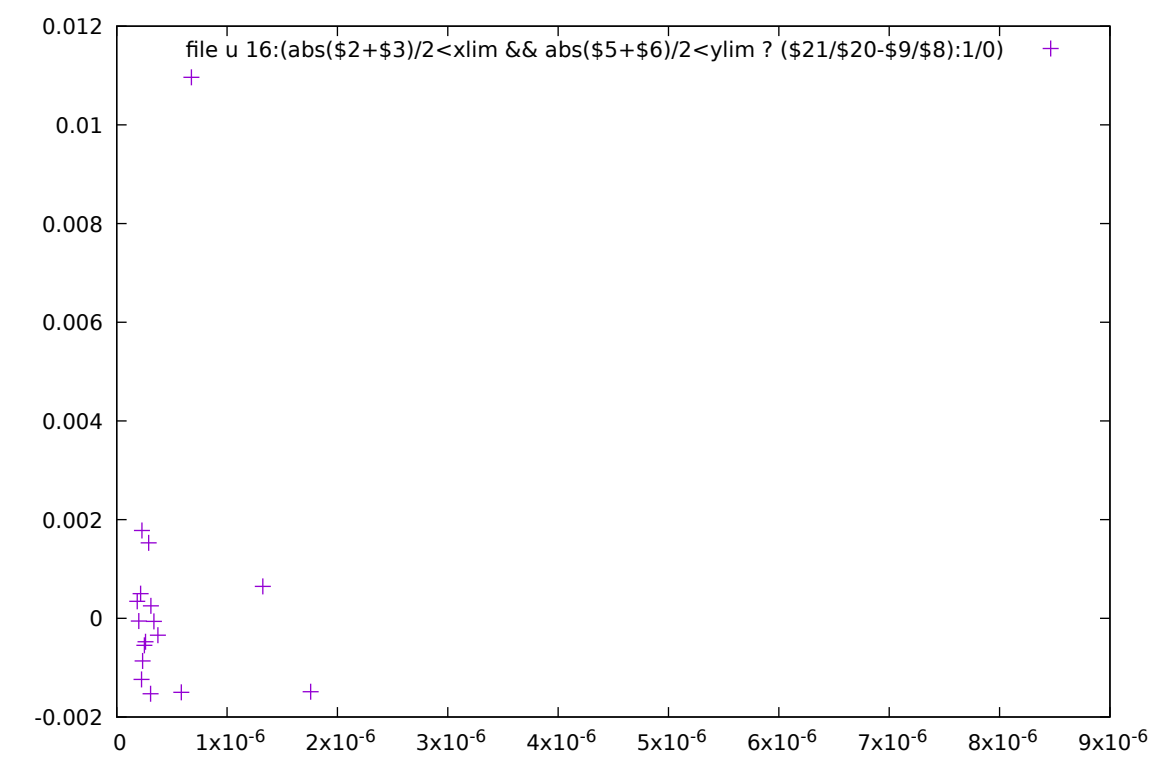

inputs_1000random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240508_142036
Δg button 2
gain (fitted-truth)
exp
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
20
40
60
80
100
120
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Wed May 08 14:31:15 2024

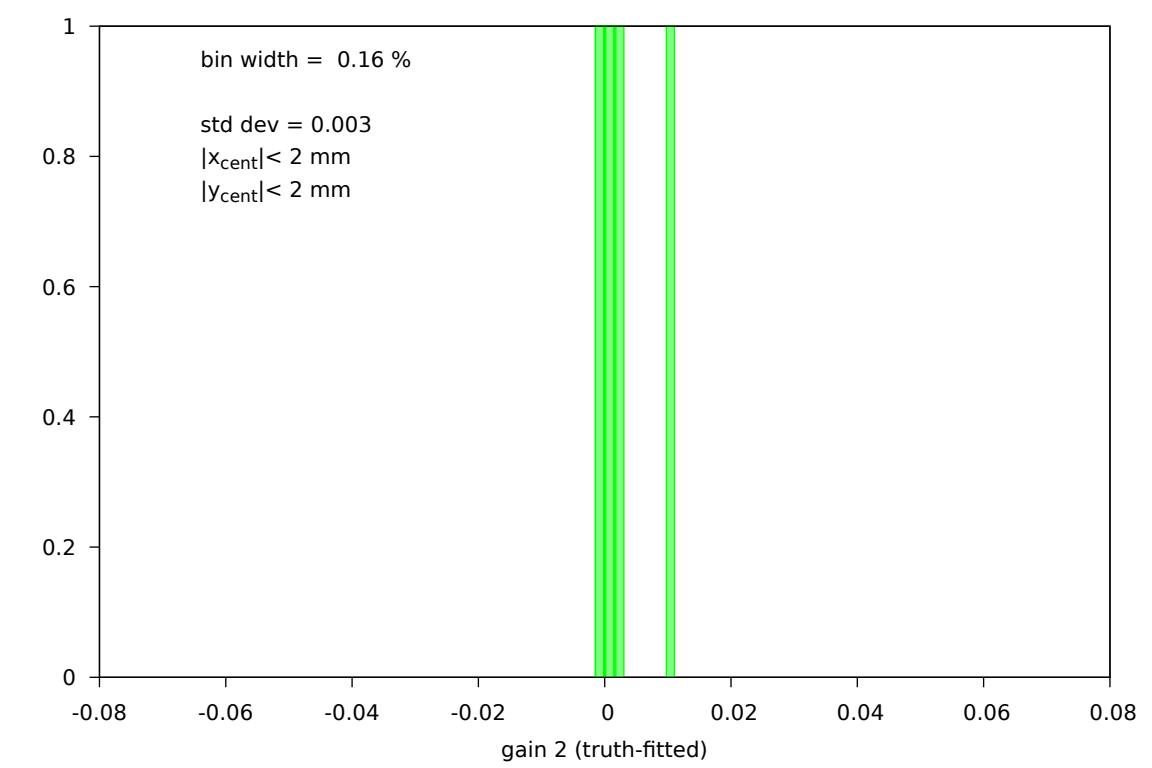

inputs_1000random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240508_142036
Δg button 2
gain (fitted-truth)
average horizontal displacement [mm]
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-10
-5
0
5
10
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Wed May 08 14:31:15 2024

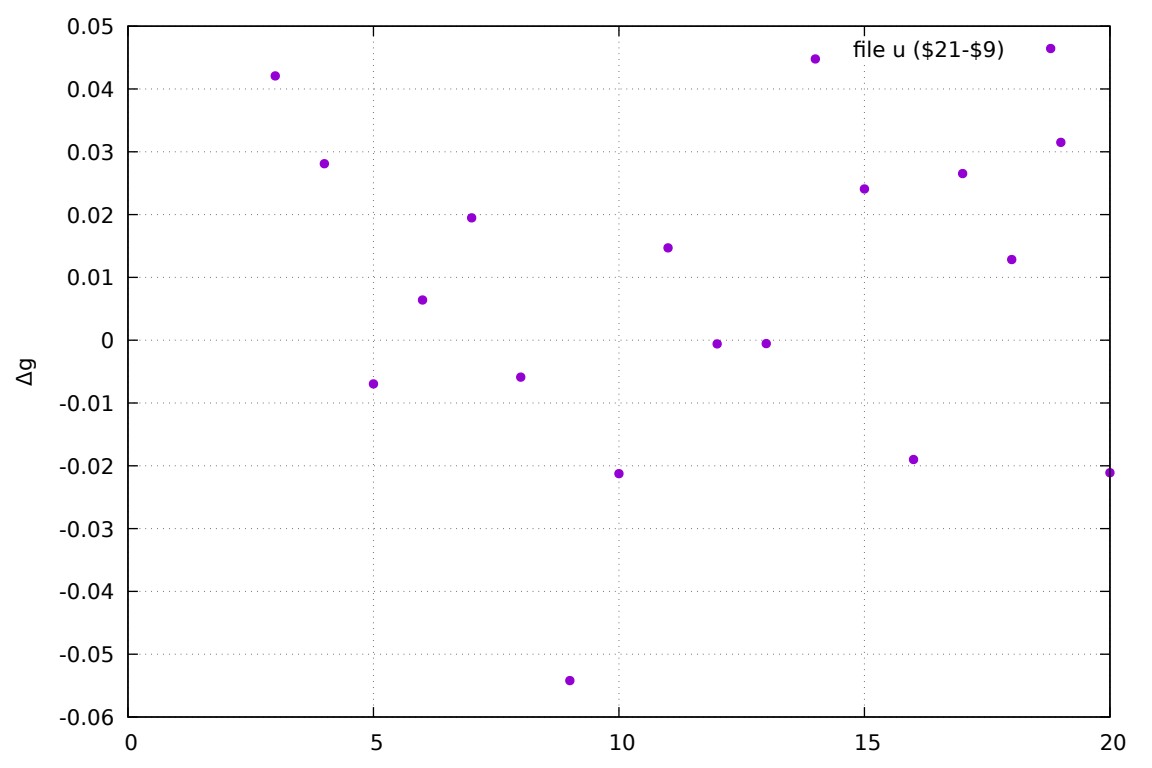

inputs_1000random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240508_142036
bin width = 0.16 %
std dev = 0.027
gain (fitted-truth)
gain 2 (truth-fitted)
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Wed May 08 14:31:15 2024

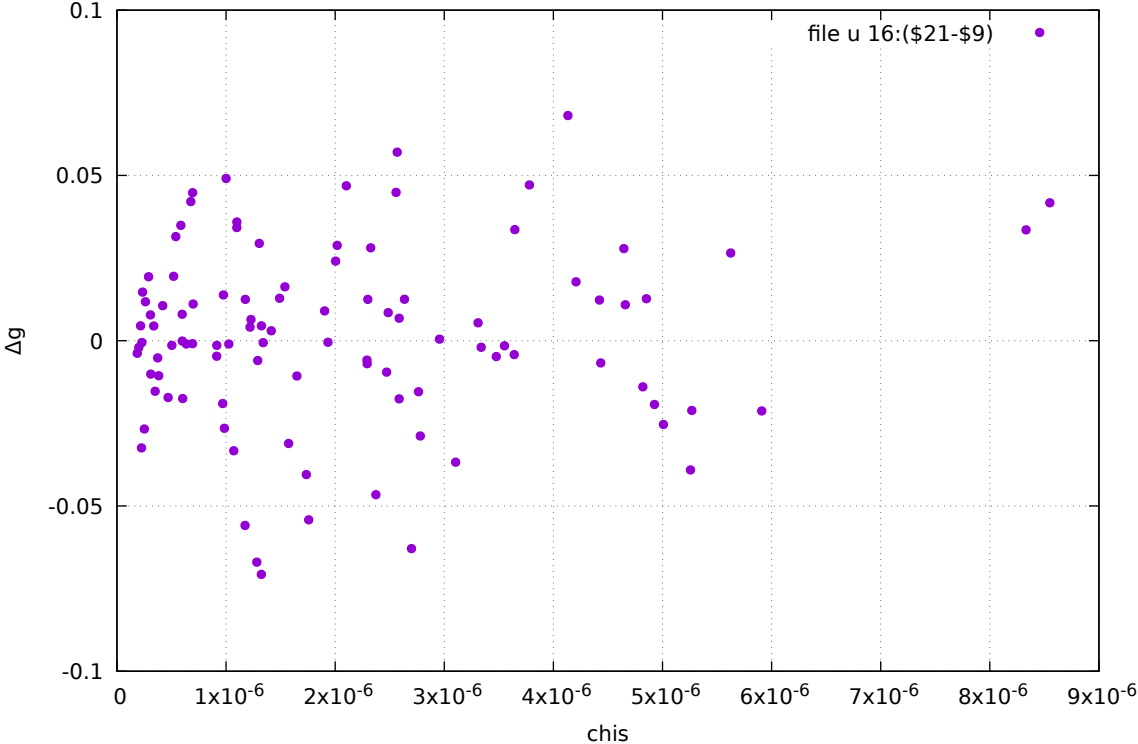

file u 16:(abs($2+$3)/2<xlim && abs($5+$6)/2<ylim ? ($21/$20-$9/$8):1/0)
0.04
0.03
0.02
0.01
0
-0.01
-0.02
0
1x10-6
2x10-6
3x10-6
4x10-6
5x10-6
6x10-6
7x10-6
8x10-6
9x10-6

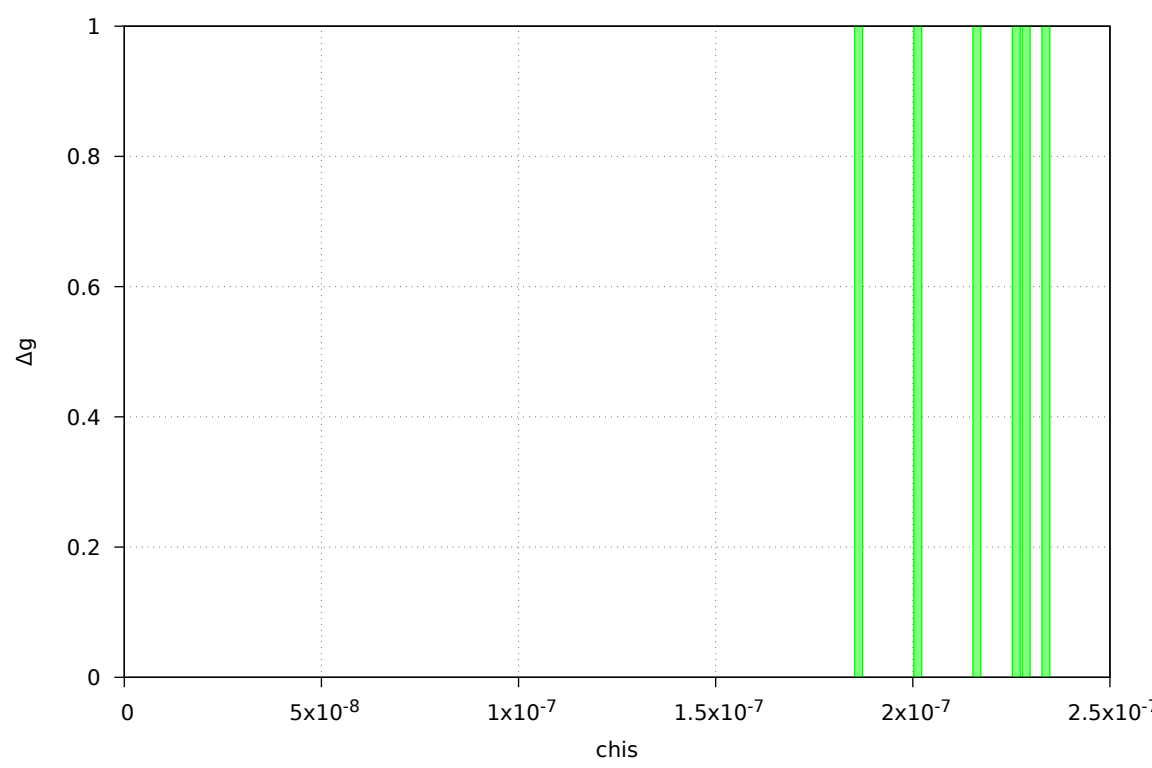

bin width = 0.16 %
std dev = 0.009
|x_cent|< 4 mm
|y_cent|< 4 mm
3
2.5
2
1.5
1
0.5
0
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
gain 2 (truth-fitted)


file u 16:(abs($2+$3)/2<xlim && abs($5+$6)/2<ylim ? ($21/$20-$9/$8):1/0)
0.012
0.01
0.008
0.006
0.004
0.002
0
-0.002
0
1x10-6
2x10-6
3x10-6
4x10-6
5x10-6
6x10-6
7x10-6
8x10-6
9x10-6


bin width = 0.16 %
std dev = 0.003
|x_cent|< 2 mm
|y_cent|< 2 mm
1
0.8
0.6
0.4
0.2
0
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
gain 2 (truth-fitted)


file u ($21-$9)
Δg
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
0
5
10
15
20


file u 16:($21-$9)
0.1
0.05
0
-0.05
-0.1
Δg
0
1x10-6
2x10-6
3x10-6
4x10-6
5x10-6
6x10-6
7x10-6
8x10-6
9x10-6
chis


1
0.8
0.6
0.4
0.2
0
Δg
0
5x10-8
1x10-7
1.5x10-7
2x10-7
chis