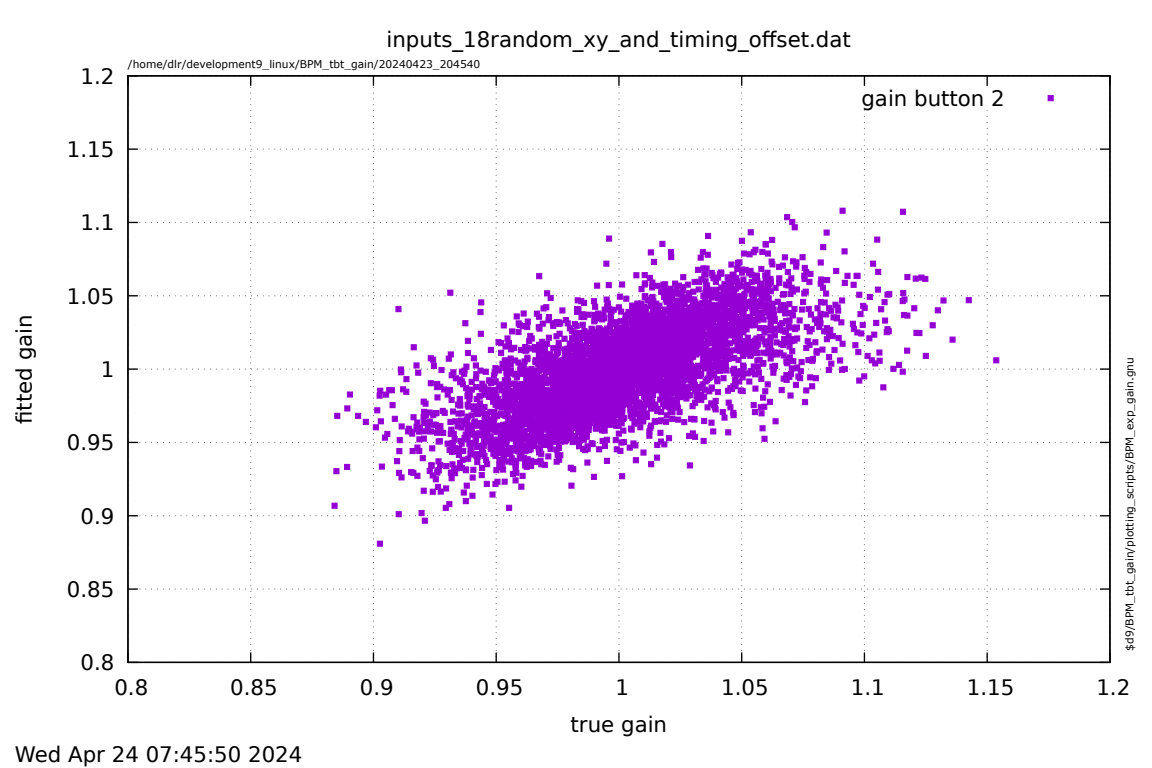
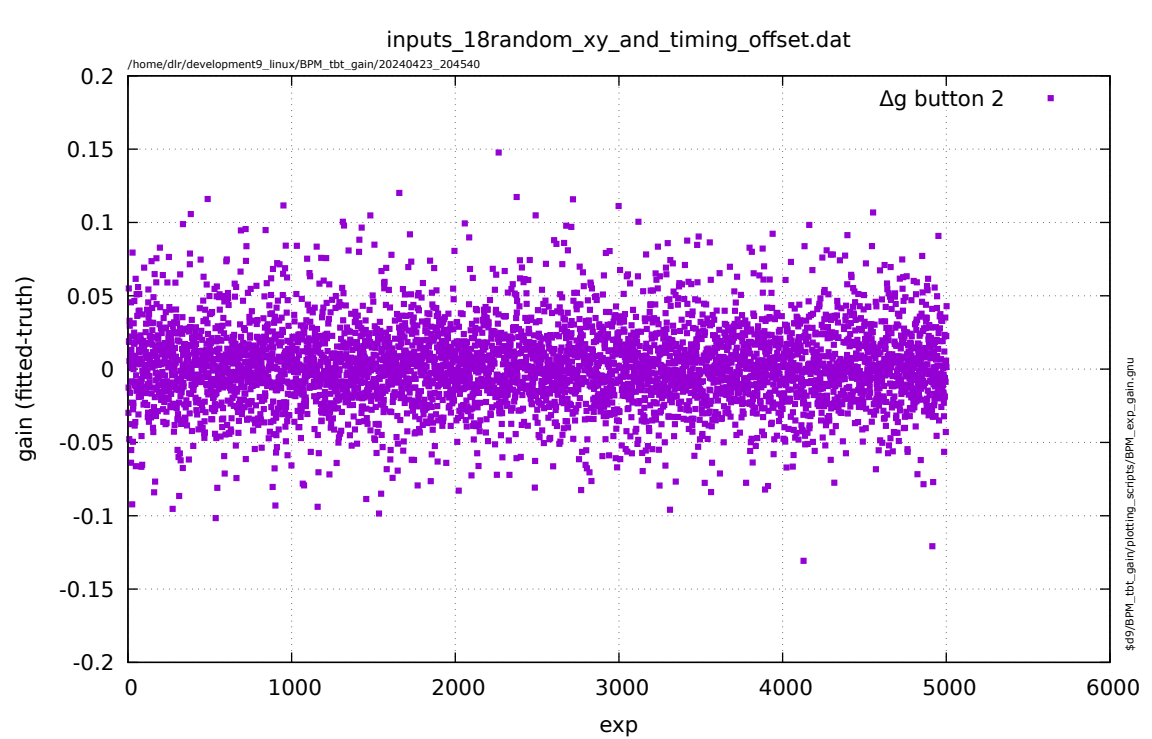
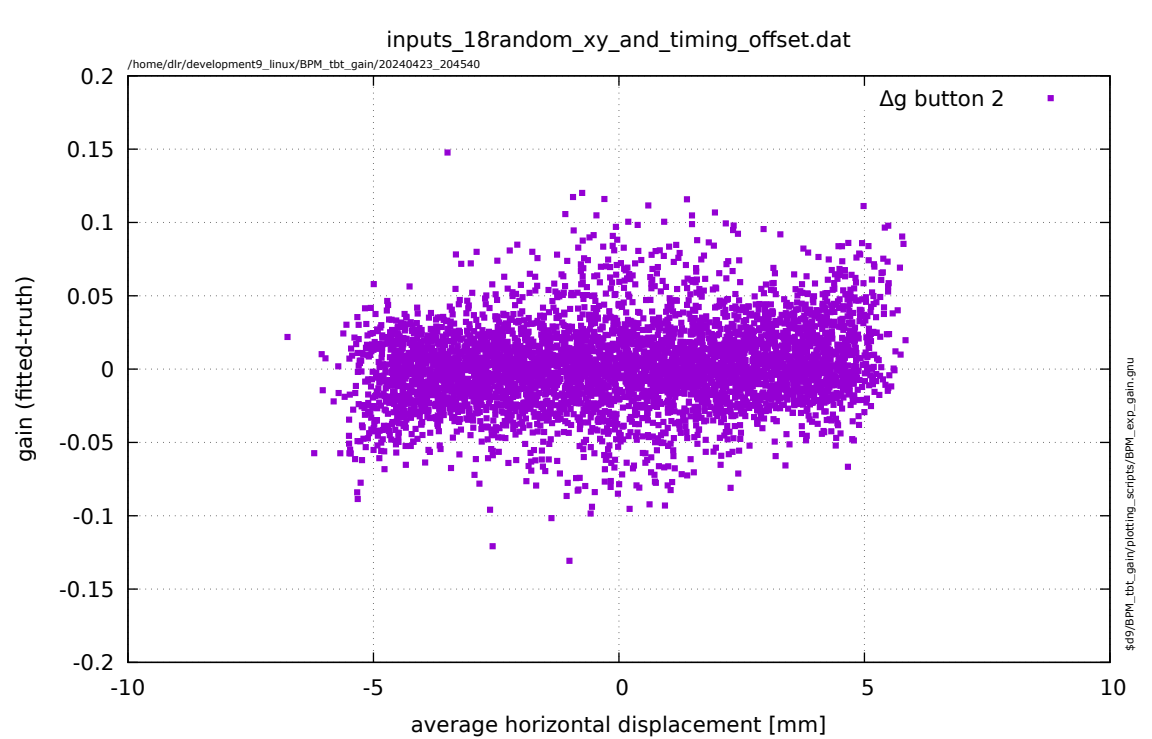
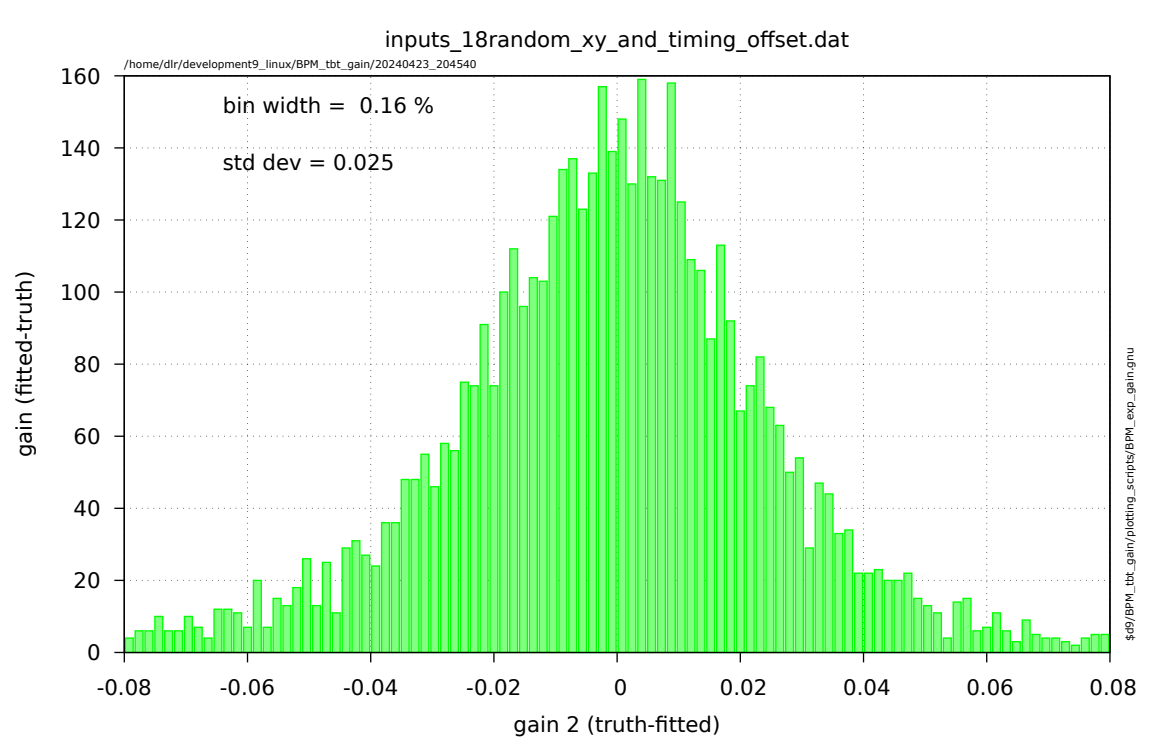

inputs_18random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240423_204540
gain button 2
fitted gain
true gain
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Wed Apr 24 07:45:50 2024

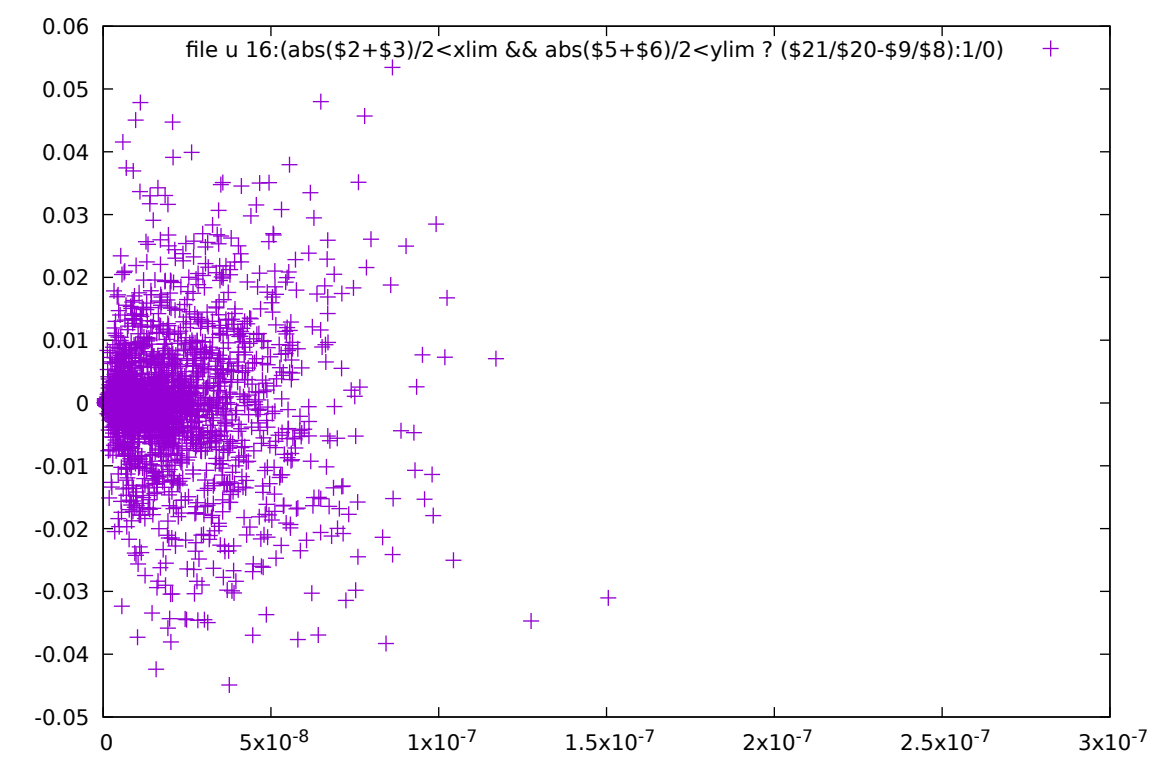


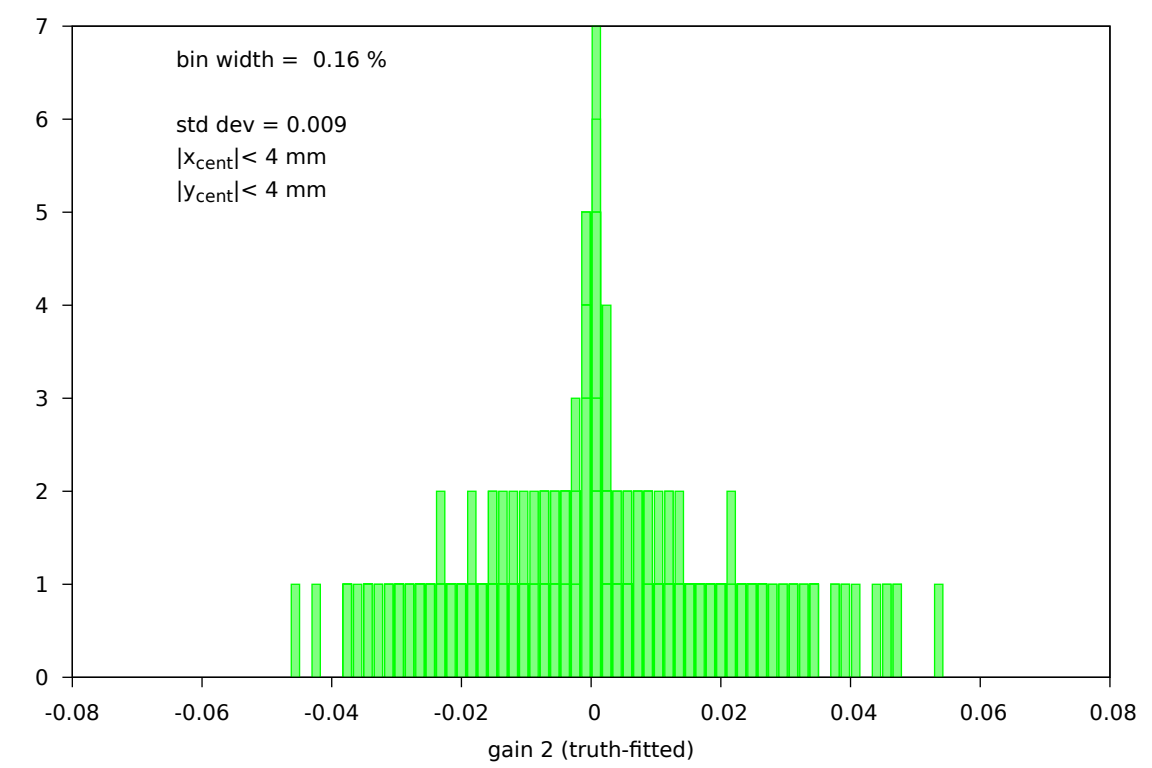
Wed Apr 24 07:45:50 2024

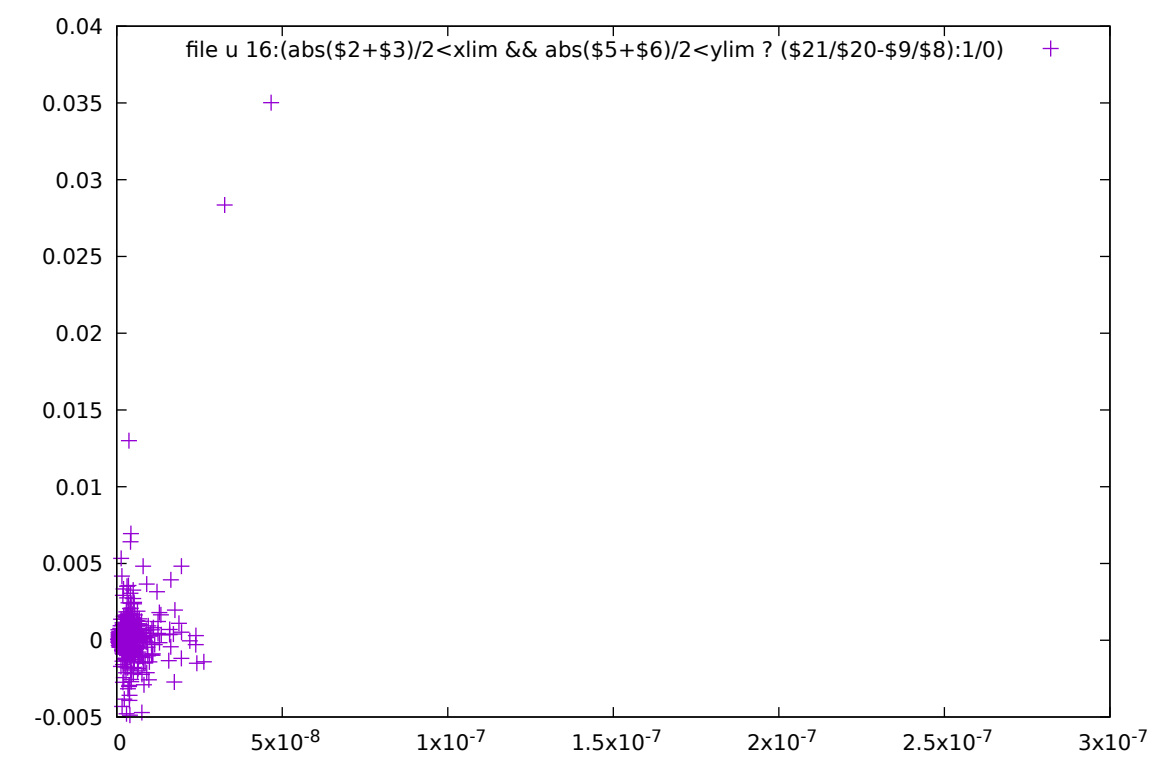


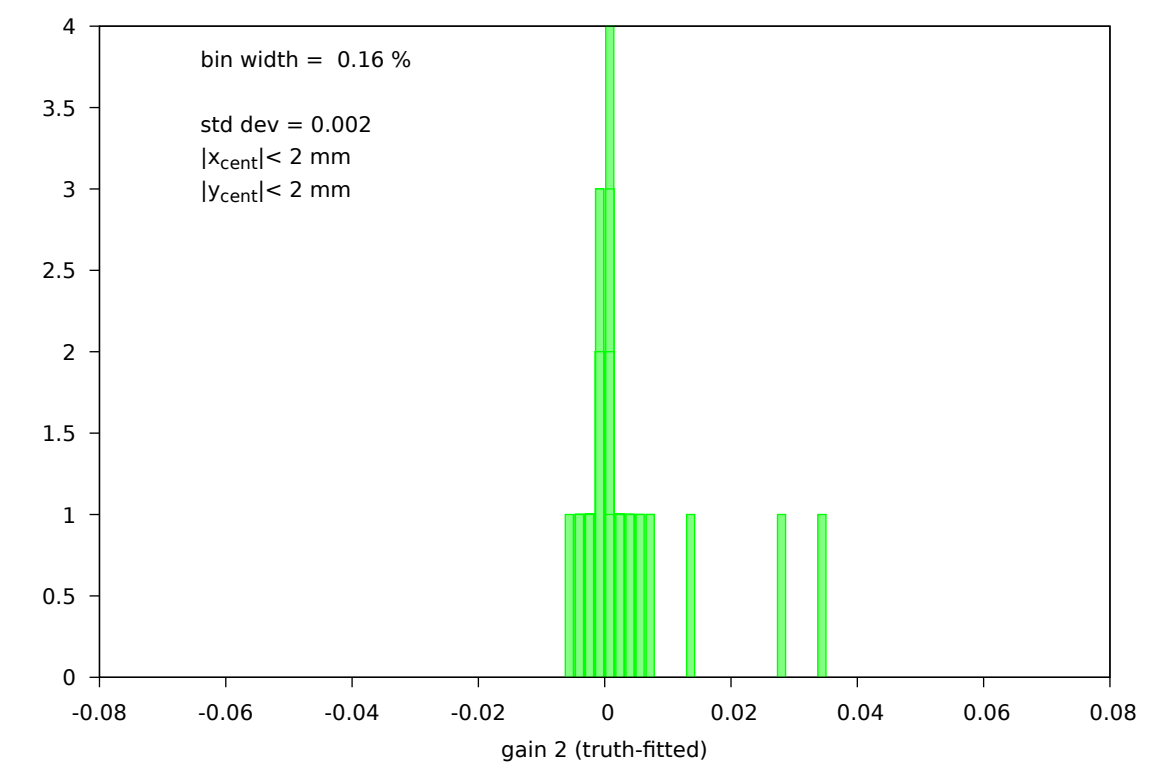
Wed Apr 24 07:45:50 2024

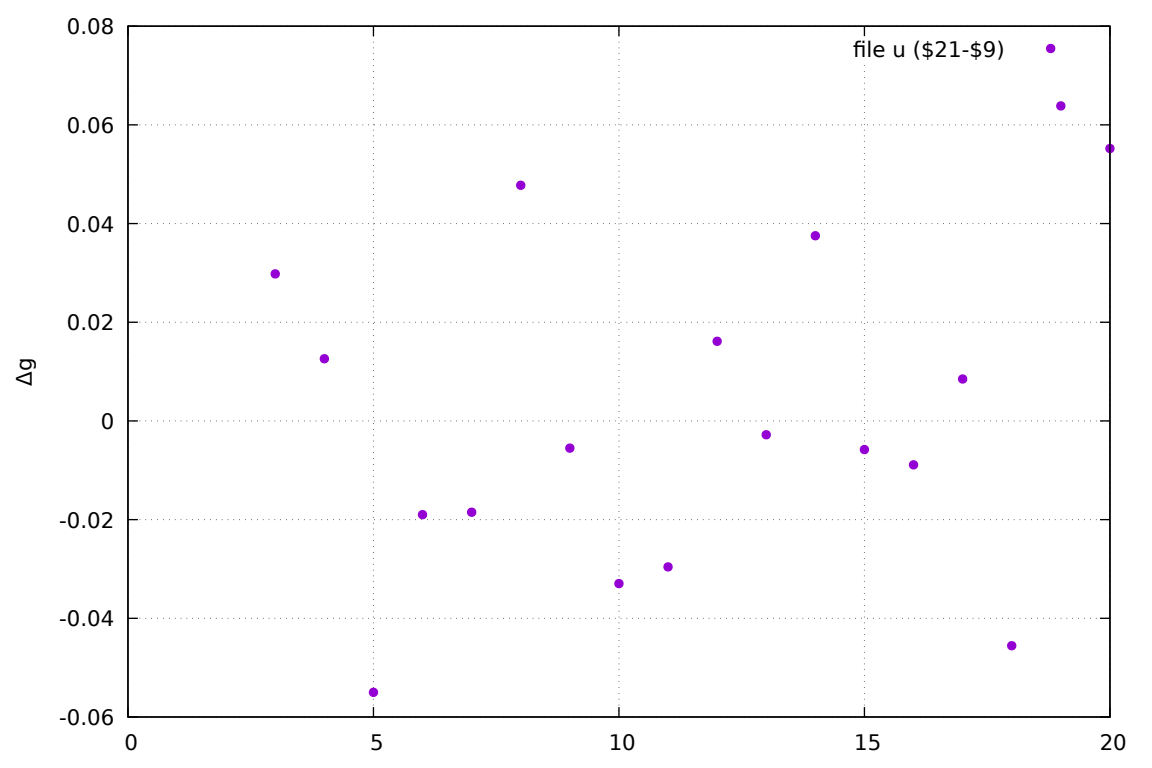

inputs_18random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240423_204540
bin width = 0.16 %
std dev = 0.025
gain (fitted-truth)
gain 2 (truth-fitted)
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Wed Apr 24 07:45:50 2024

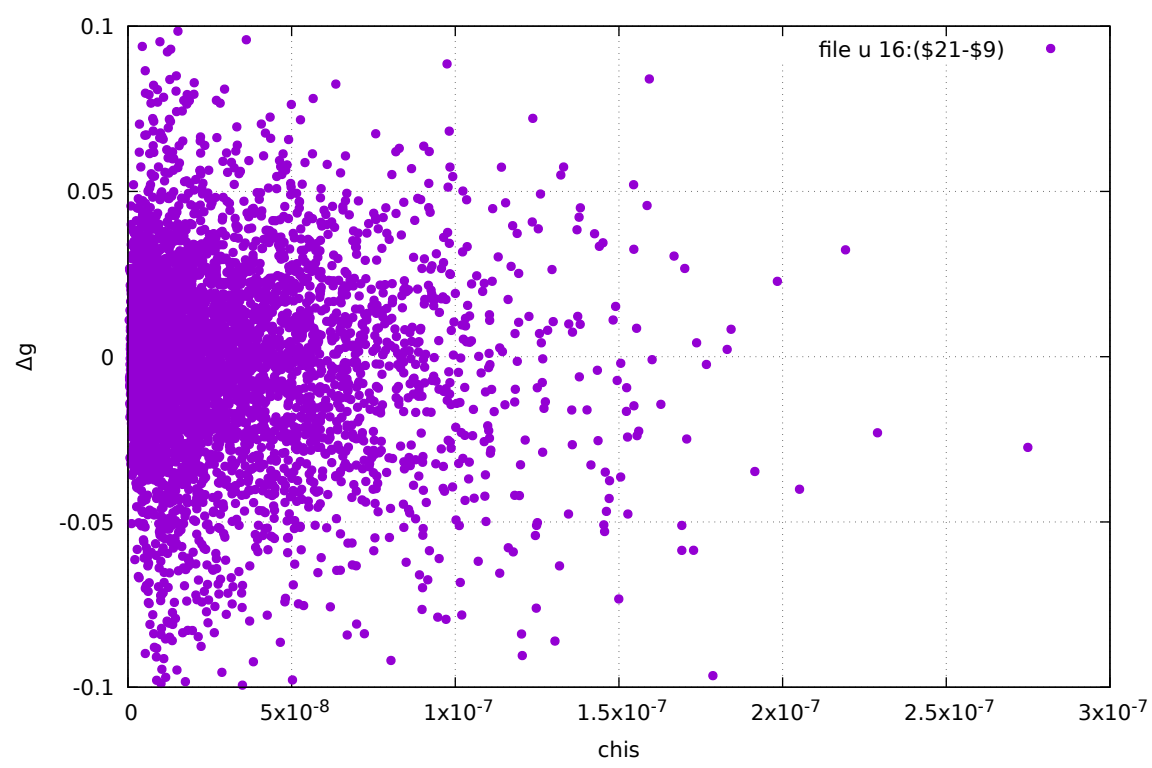

file u 16:(abs($2+$3)/2<xlim && abs($5+$6)/2<ylim ? ($21/$20-$9/$8):1/0)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
-0.04
-0.05
0
5x10-8
1x10-7
1.5x10-7
2x10-7
2.5x10-7
3x10-7

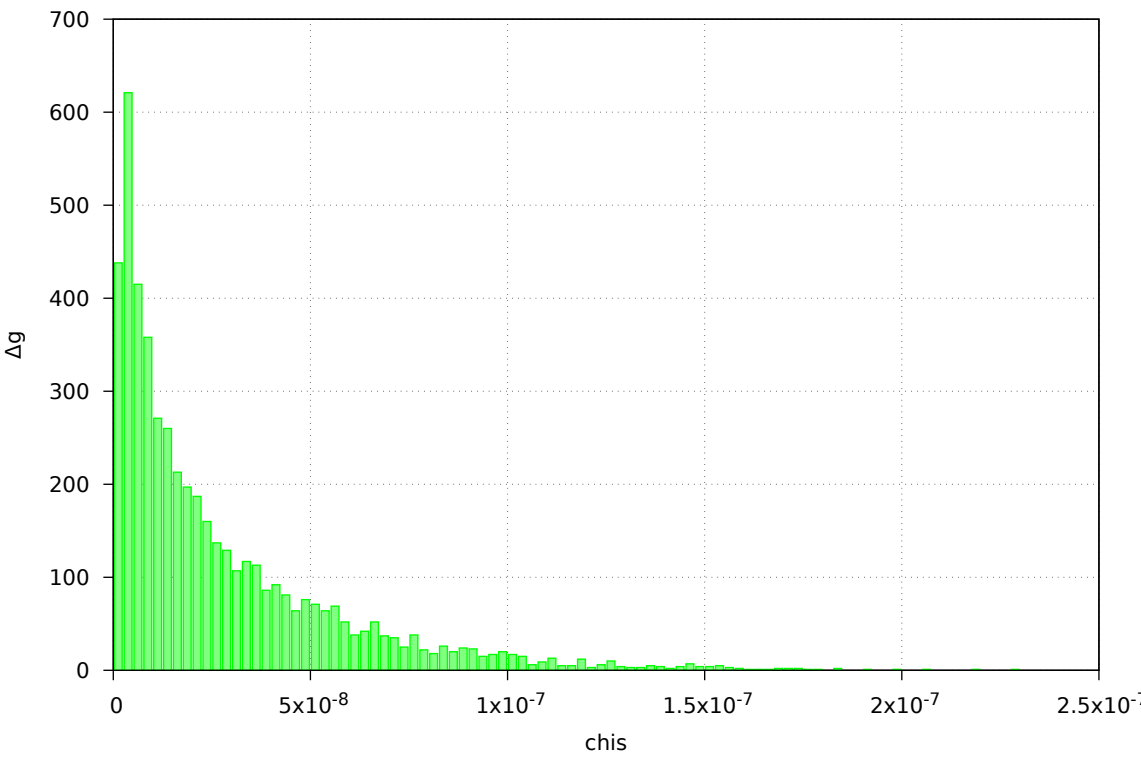

bin width = 0.16 %
std dev = 0.009
|x_cent|< 4 mm
|y_cent|< 4 mm
7
6
5
4
3
2
1
0
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
gain 2 (truth-fitted)


file u 16:(abs($2+$3)/2<xlim && abs($5+$6)/2<ylim ? ($21/$20-$9/$8):1/0)
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.005
0
5x10-8
1x10-7
1.5x10-7
2x10-7
2.5x10-7
3x10-7


bin width = 0.16 %
std dev = 0.002
|x_cent|< 2 mm
|y_cent|< 2 mm
4
3.5
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 ($21-$9)
Δg
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
0
5
10
15
20


file u 16:($21-$9)
0.1
0.05
0
-0.05
-0.1
Δg
0
5x10-8
1x10-7
1.5x10-7
2x10-7
2.5x10-7
3x10-7
chis


700
600
500
400
300
200
100
0
Δg
0
5x10-8
1x10-7
1.5x10-7
2x10-7
chis