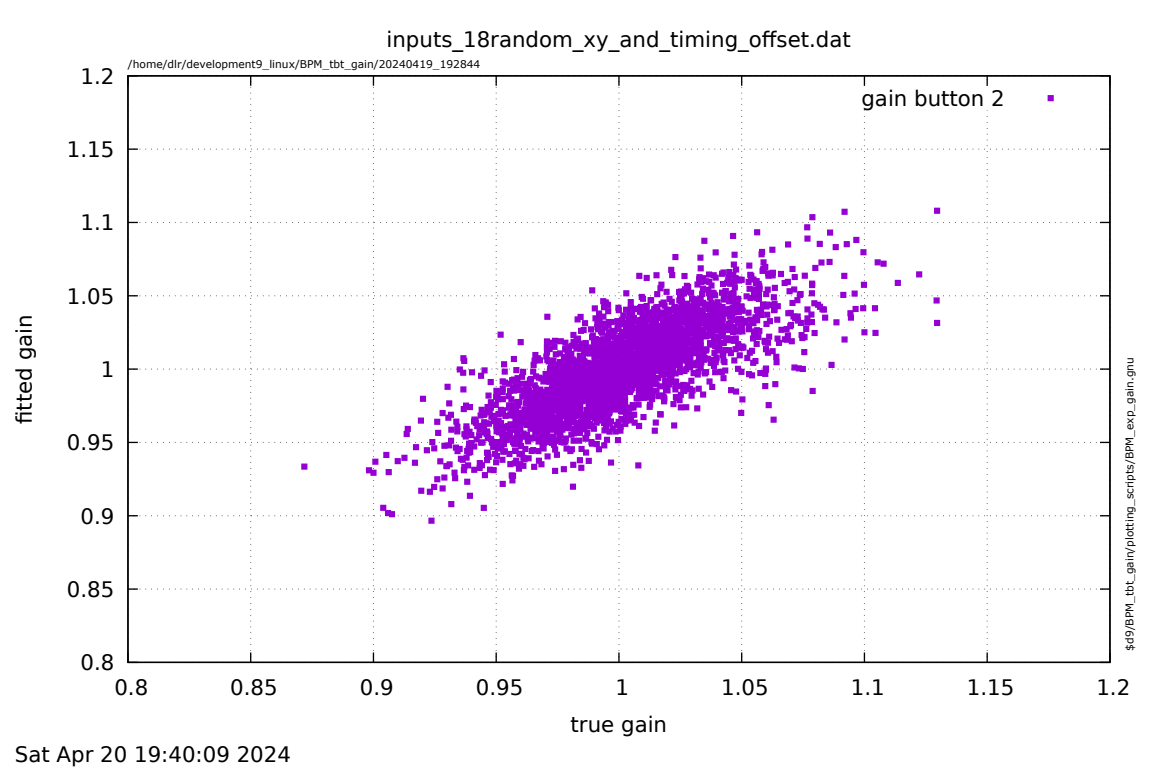
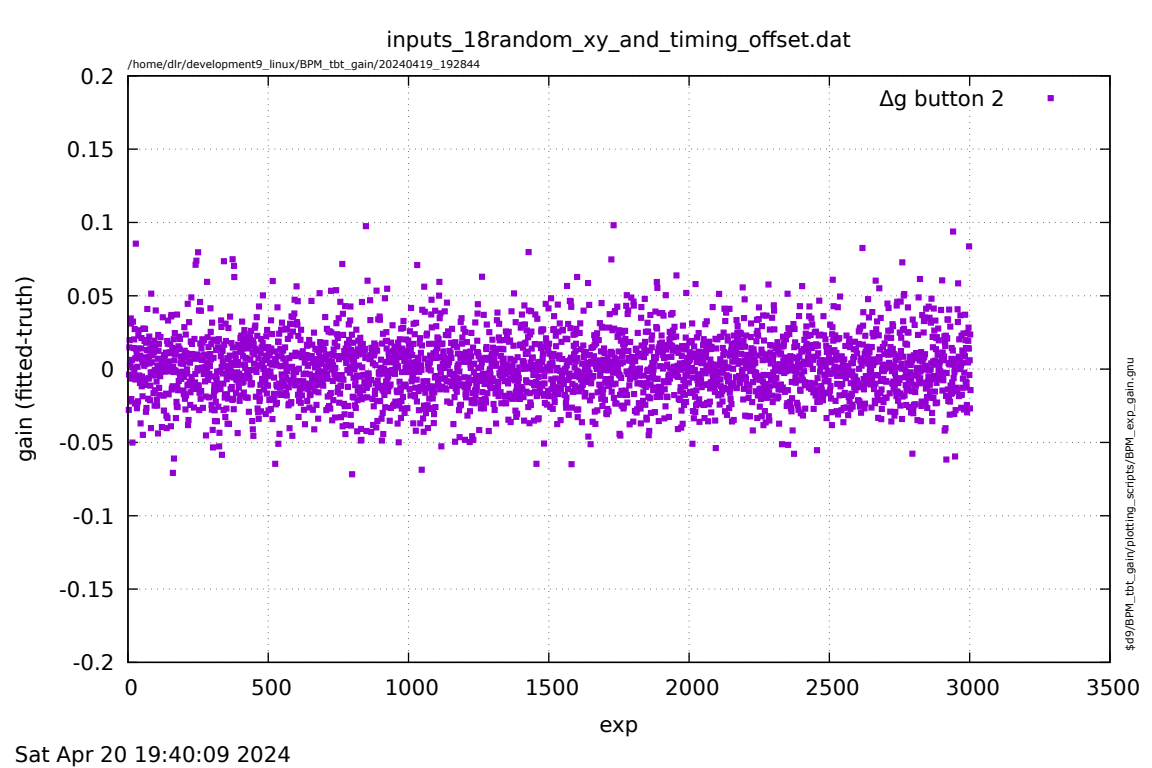
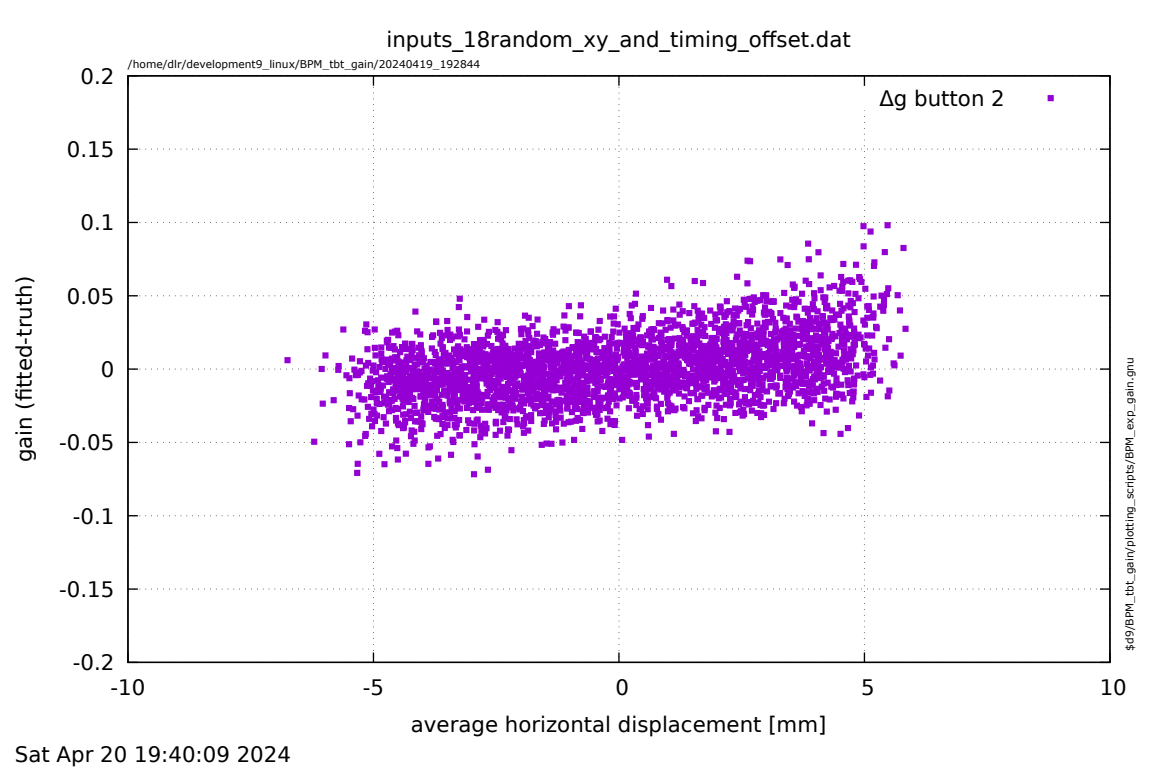
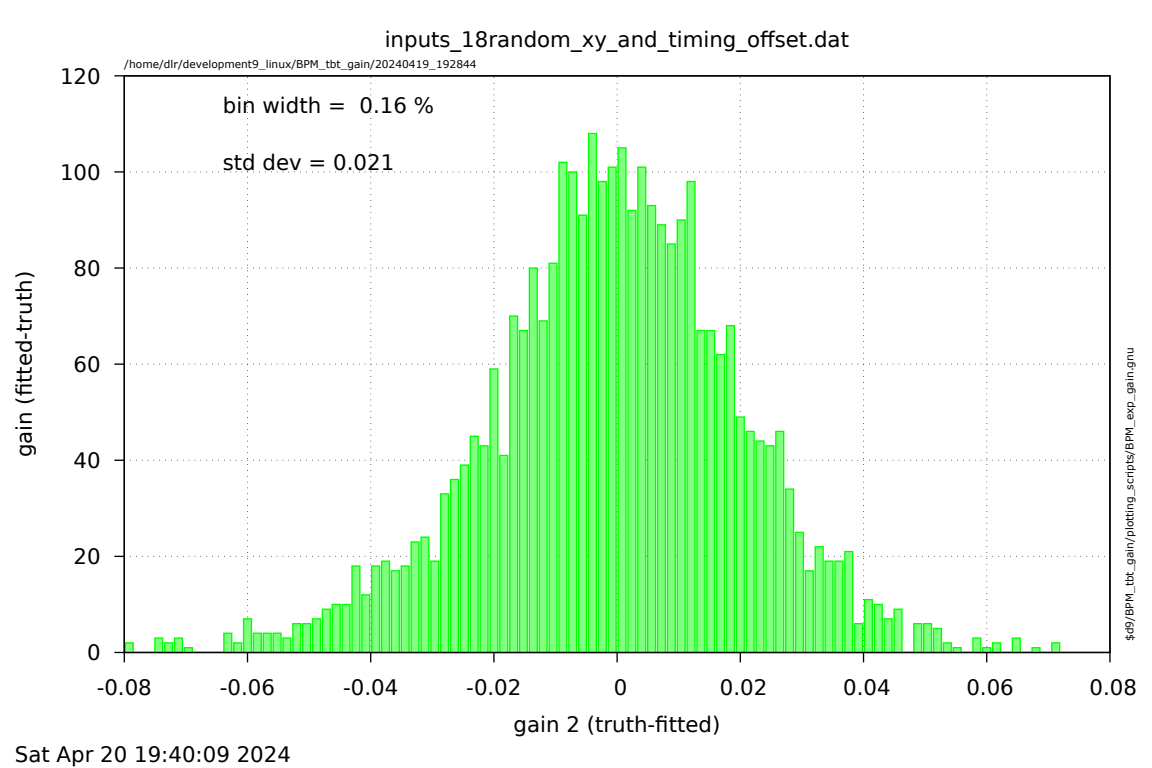
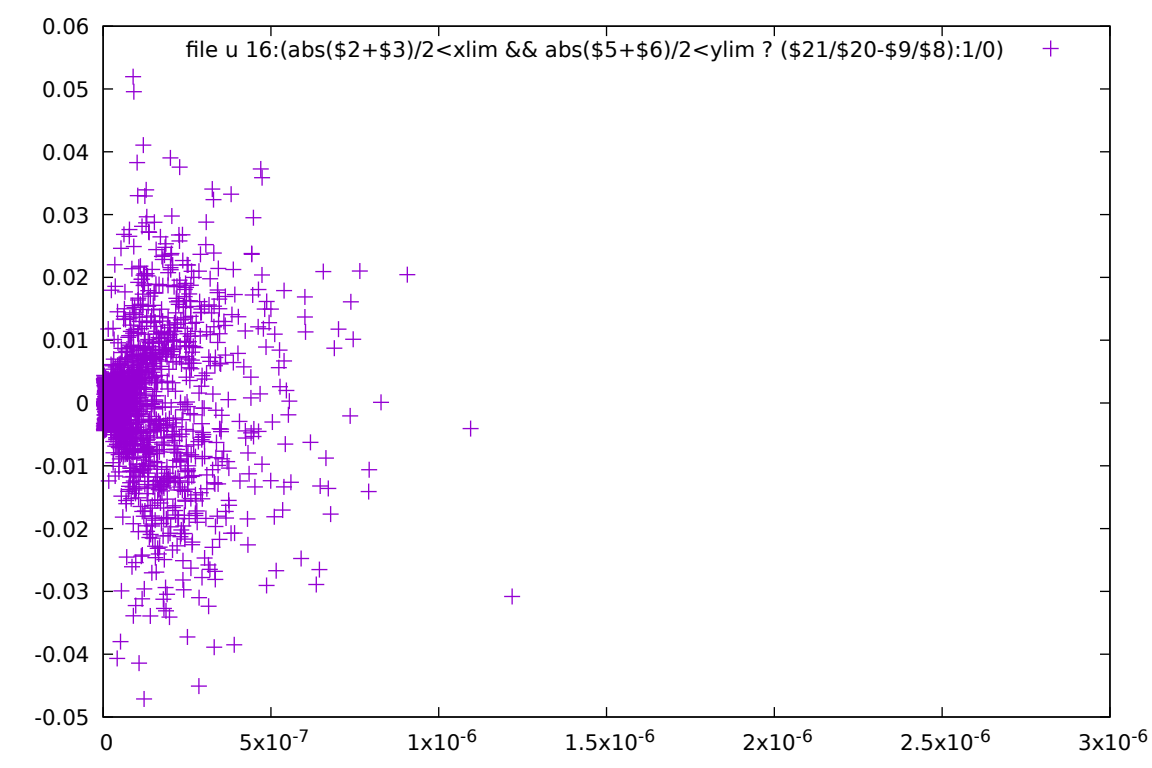
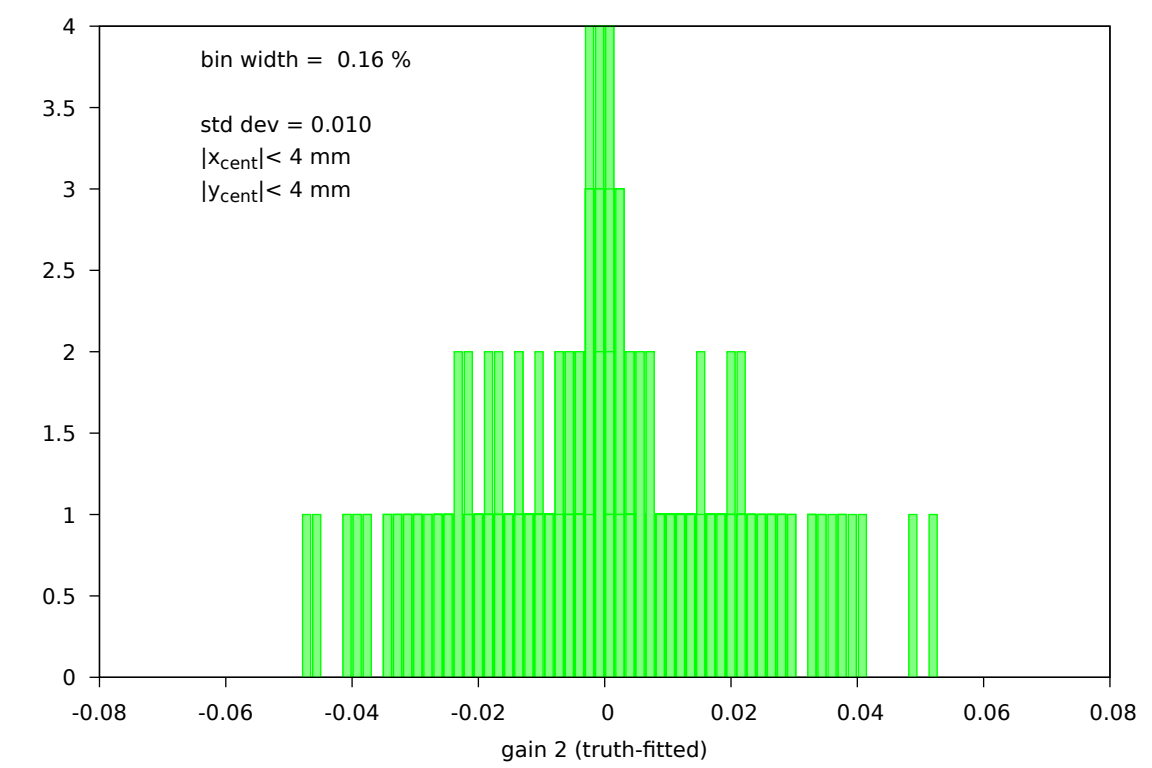

inputs_18random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240419_192844
gain button 2
fitted gain
true gain
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Sat Apr 20 19:40:09 2024

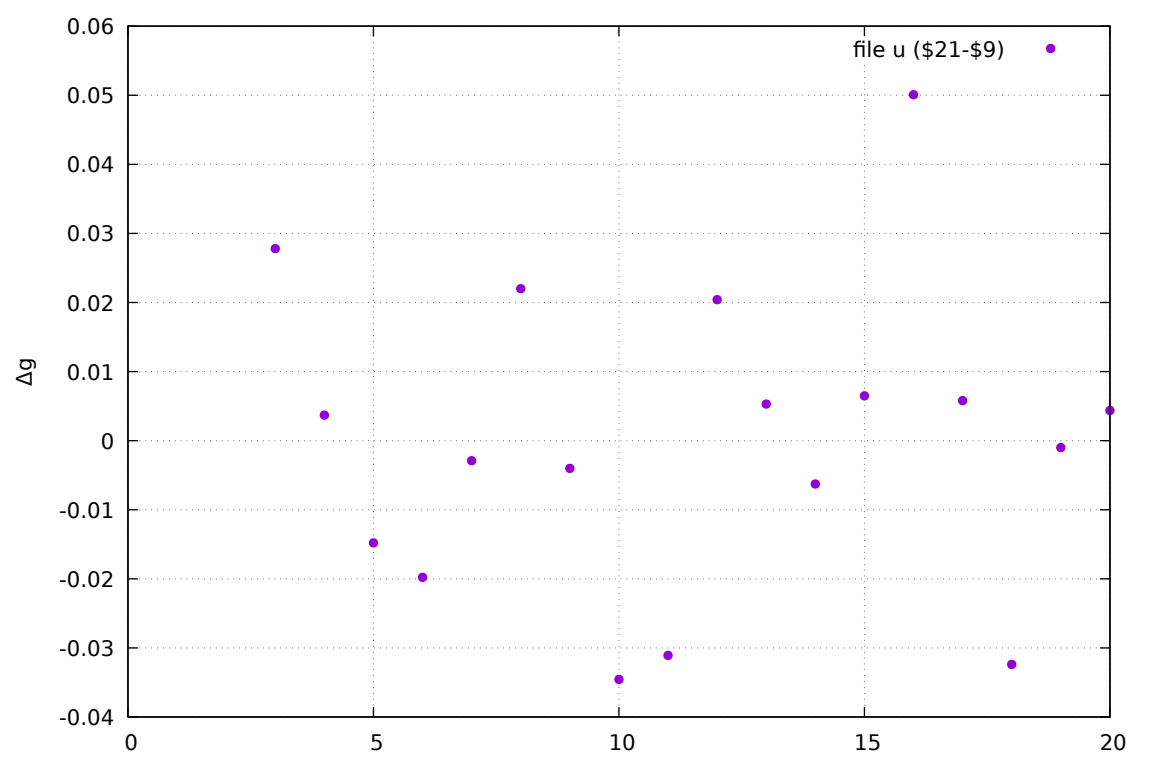

inputs_18random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240419_192844
Δg button 2
gain (fitted-truth)
exp
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
500
1000
1500
2000
2500
3000
3500
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Sat Apr 20 19:40:09 2024

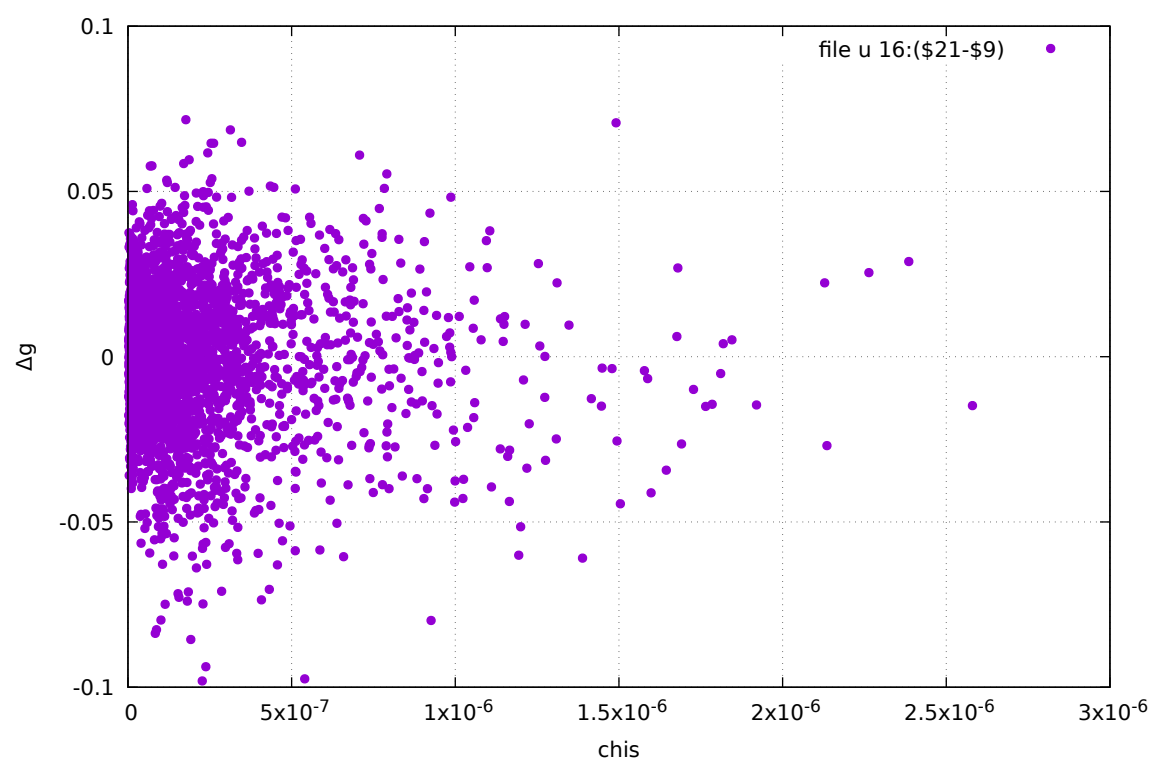

inputs_18random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240419_192844
Δg button 2
gain (fitted-truth)
average horizontal displacement [mm]
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-10
-5
0
5
10
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Sat Apr 20 19:40:09 2024

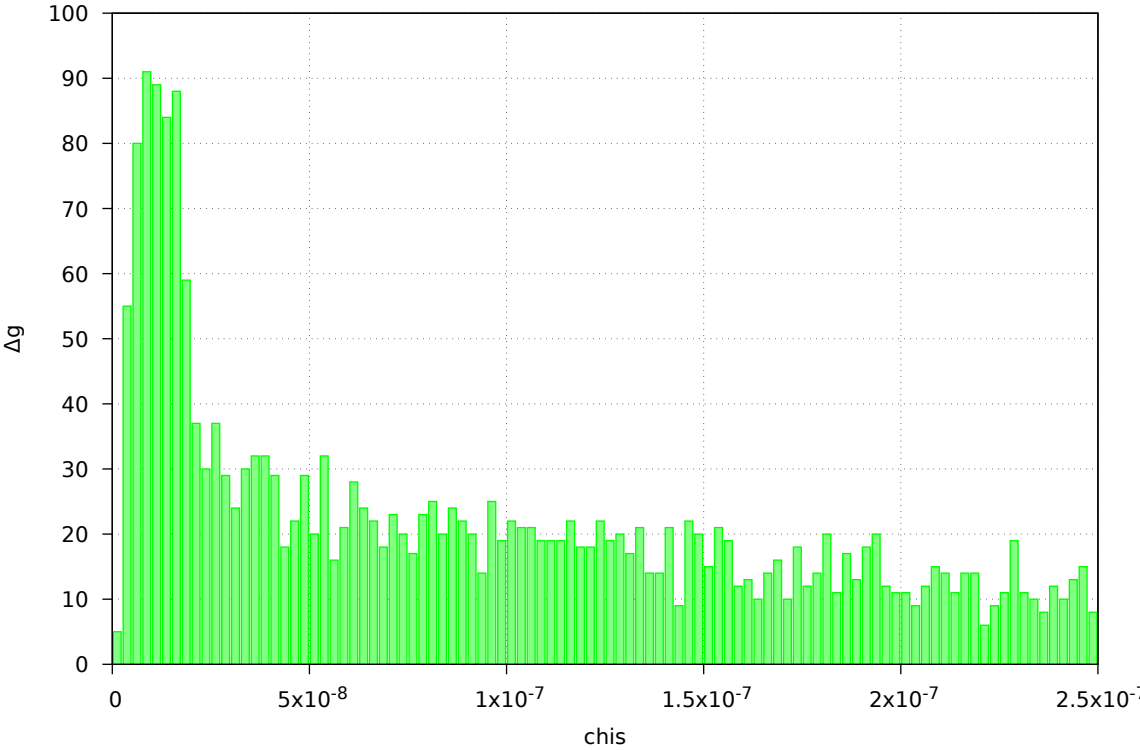

inputs_18random_xy_and_timing_offset.dat
/home/dlr/development9_linux/BPM_tbt_gain/20240419_192844
bin width = 0.16 %
std dev = 0.021
gain (fitted-truth)
gain 2 (truth-fitted)
120
100
80
60
40
20
0
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
$d9/BPM_tbt_gain/plotting_scripts/BPM_exp_gain.gnu
Sat Apr 20 19:40:09 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
5x10-7
1x10-6
1.5x10-6
2x10-6
2.5x10-6
3x10-6


bin width = 0.16 %
std dev = 0.010
|x_cent|< 4 mm
|y_cent|< 4 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
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
-0.04
0
5
10
15
20


file u 16:($21-$9)
0.1
0.05
0
-0.05
-0.1
Δg
0
5x10-7
1x10-6
1.5x10-6
2x10-6
2.5x10-6
3x10-6
chis


100
90
80
70
60
50
40
30
20
10
0
Δg
0
5x10-8
1x10-7
1.5x10-7
2x10-7
chis