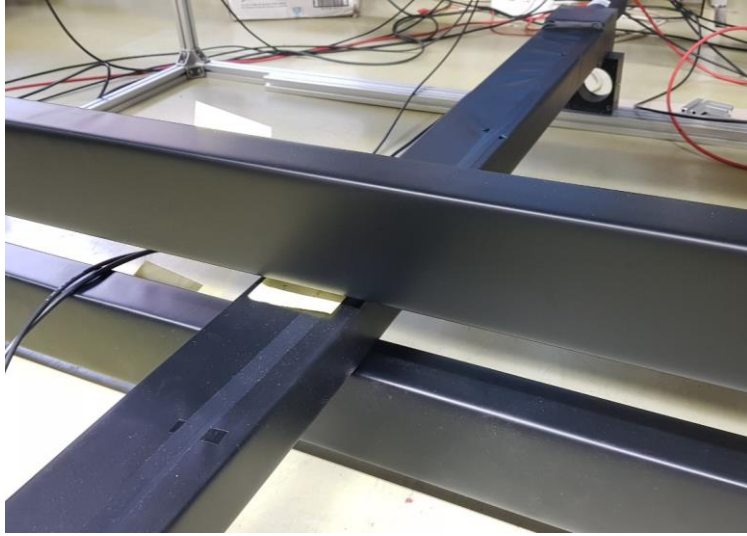# Weekly Meeting

ByungChan Lee

Time Resolution – Position

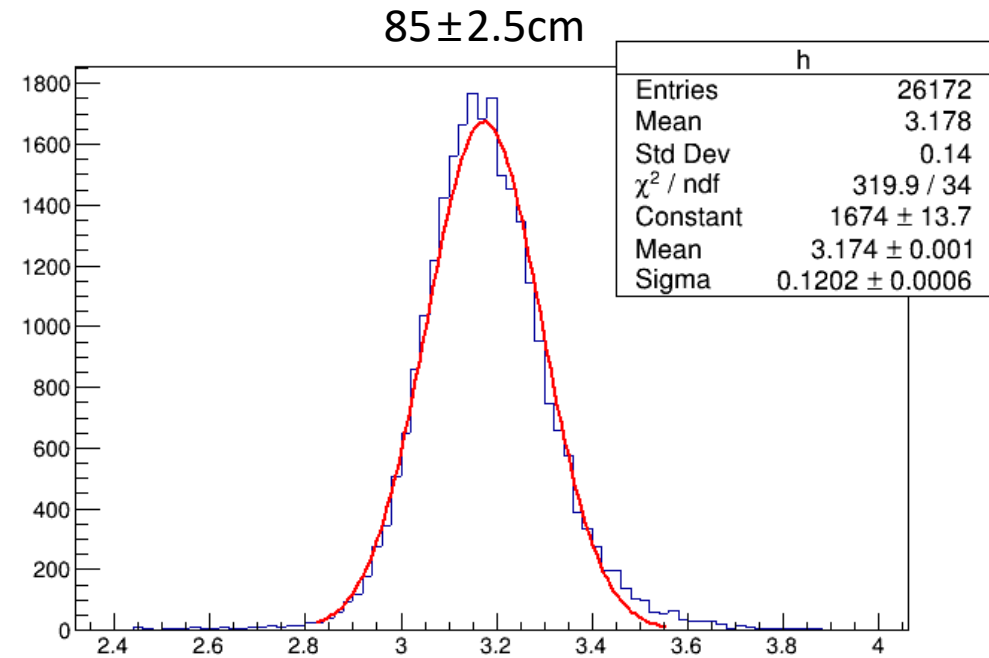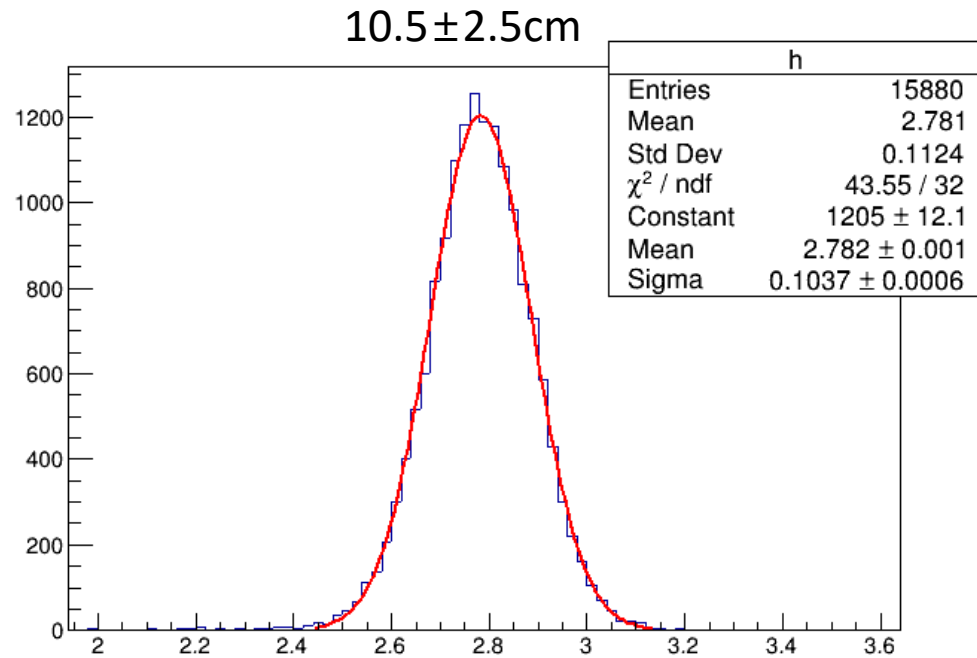# Time Resolution – Position
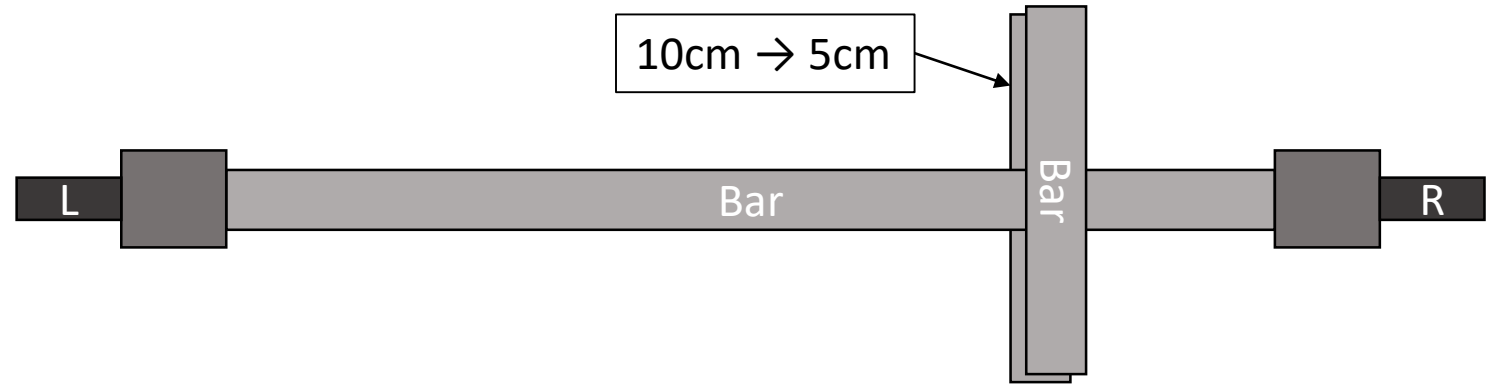
10cm → 5cm

Rearrangement of reference bars : 10cm → 5cm

- 0.3 events/sec

Time Resolution – Position

10.5±2.5cm

h	
Entries	15880
Mean	2.781
Std Dev	0.1124
χ^2 / ndf	43.55 / 32
Constant	1205 ± 12.1
Mean	2.782 ± 0.001
Sigma	0.1037 ± 0.0006

85±2.5cm

h	
Entries	26172
Mean	3.178
Std Dev	0.14
χ^2 / ndf	319.9 / 34
Constant	1674 ± 13.7
Mean	3.174 ± 0.001
Sigma	0.1202 ± 0.0006

- t0avg(2nd bar) – t0_ref

    * t0_ref = (t0avg(1st bar)+ t0avg(3rd bar))/2

- Event Selection (1st & 3rd bars) : |dt(L-R) – dt_mean| < 1σ

- Gaussian fitting, 1 Sigma = (10.5±2.5cm) 0.1037 / (85±2.5cm) 0.1202

Time Resolution – Position
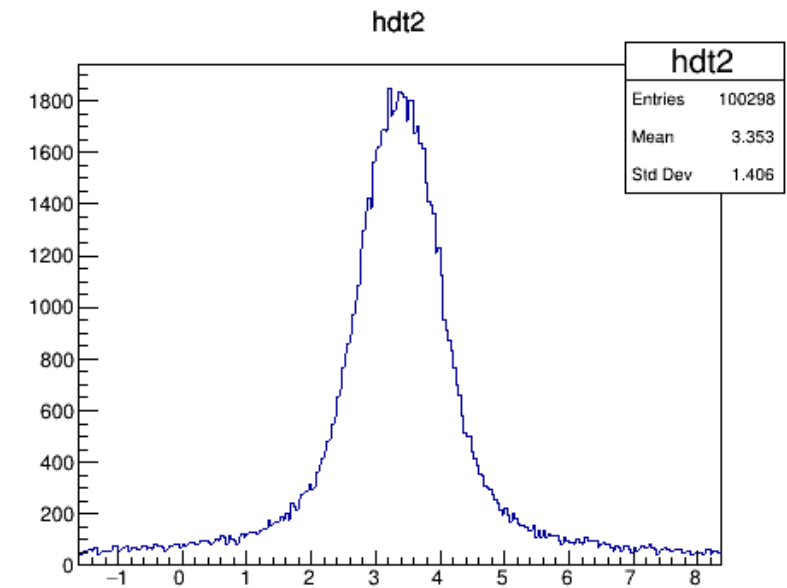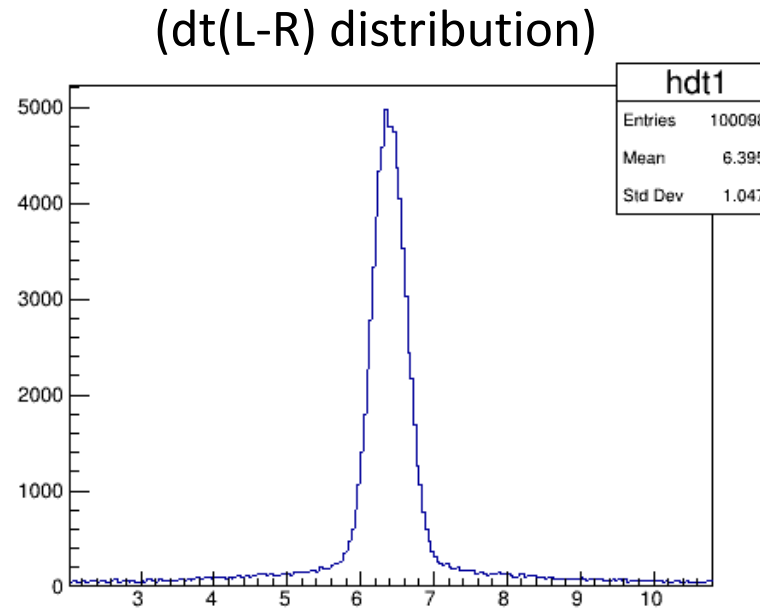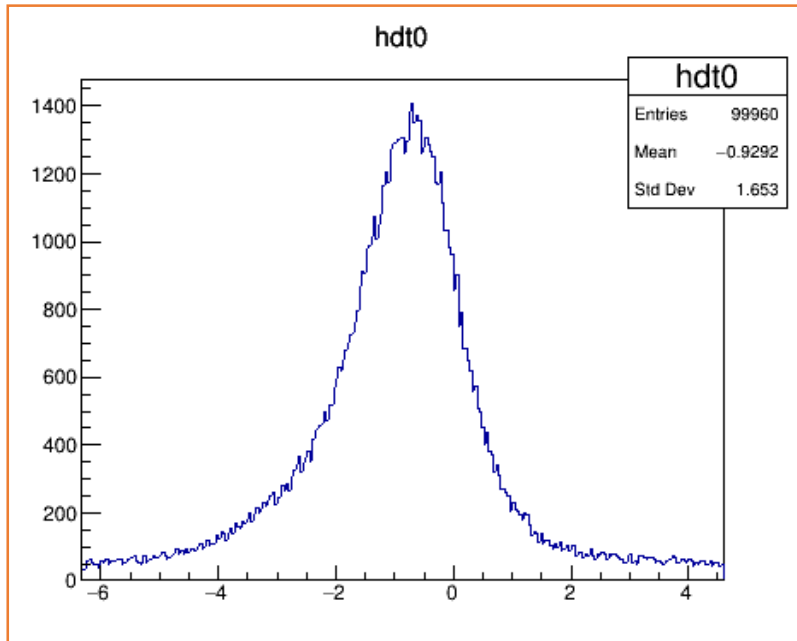
(dt(L-R) distribution)

Asymmetry in time distribution

- Wrong setting; gain calibration table was wrong..