190723

ByungChan Lee

Position Dependence – with External trigger

PWO : 2 × 2 × 20 [cm]

Calculate Reference time from PWO

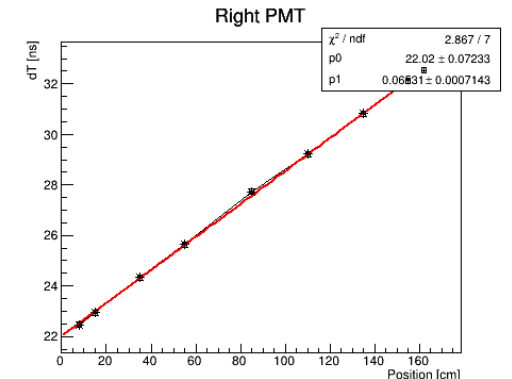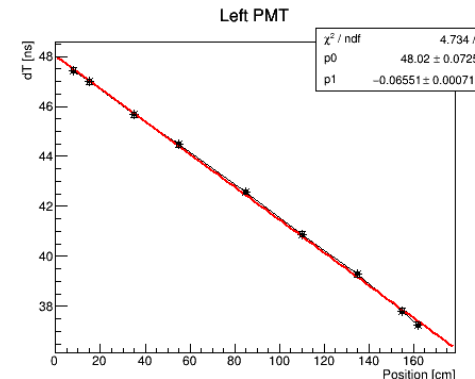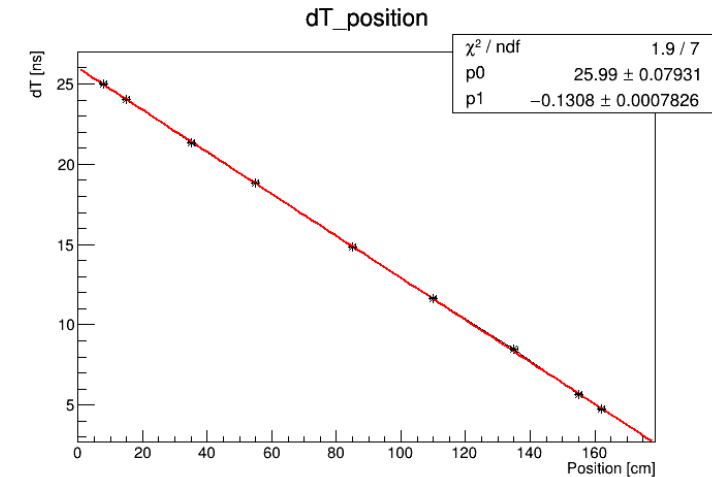: T ref = (t0[up]+t0[down])/2

- t0[left] – T ref

- t0[right] – T ref

Speed of light (left PMT) : 15.27 ±0.17 cm/ns

Speed of light (right PMT) : 15.31 ±0.17 cm/ns

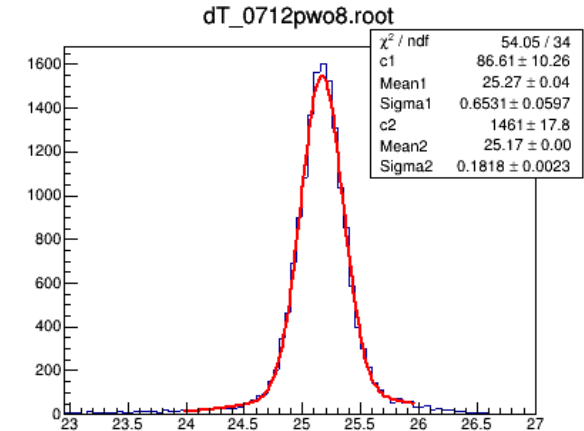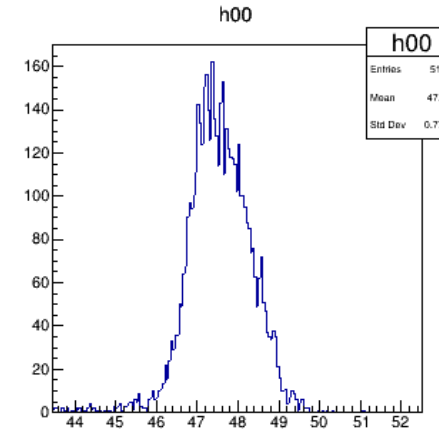Speed of light (dT) : 15.29 ±0.09 cm/ns

Position Dependence – with External trigger
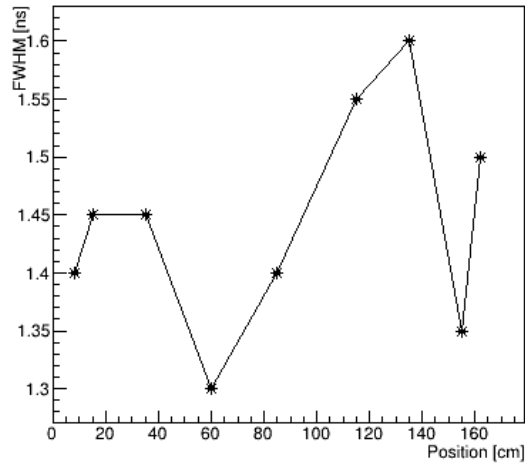
Graph FWHM

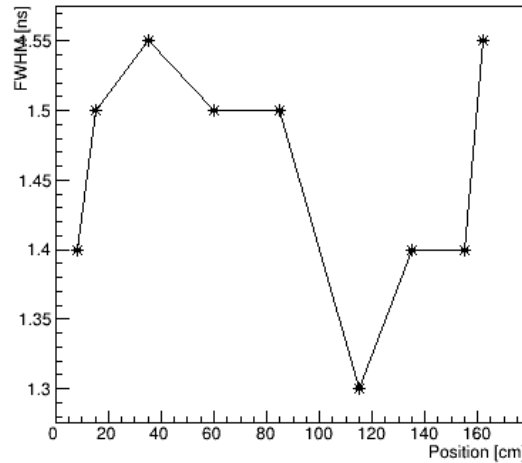1bin = 50ps

No sign of position dependency

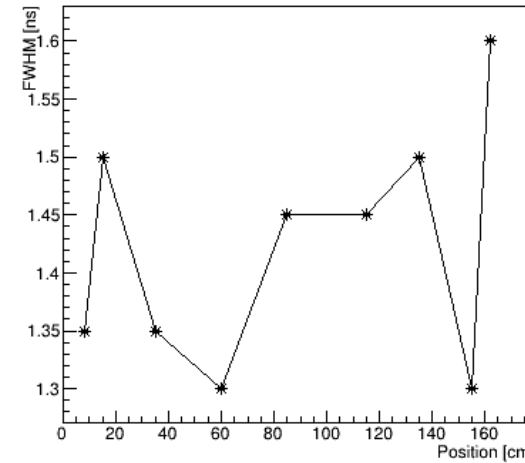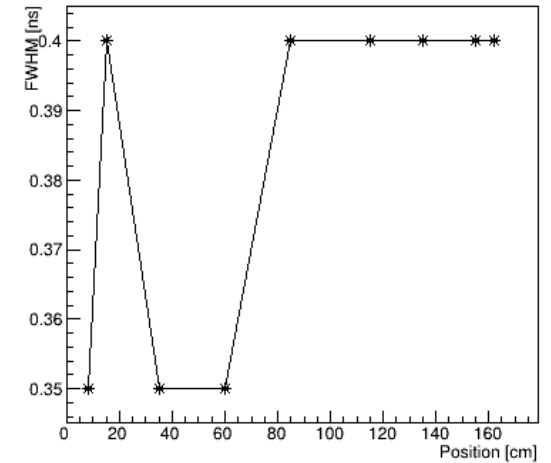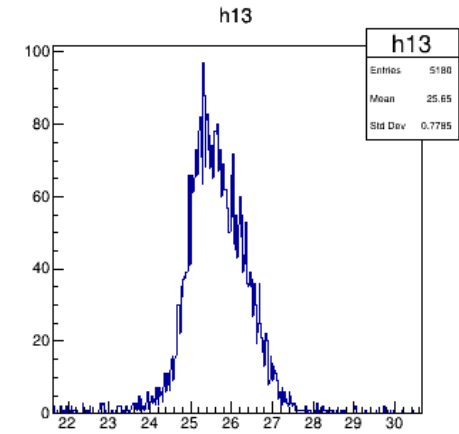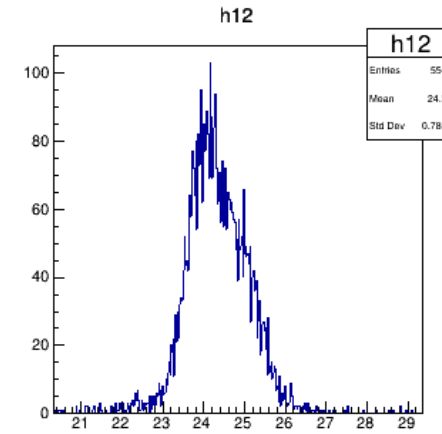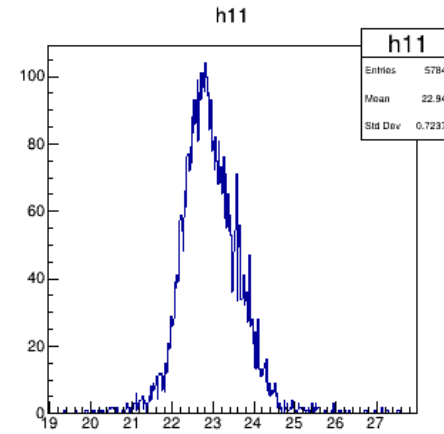*FWHM of pwo dT histogram (t0[up]-t0[down]) : ~1.6ns

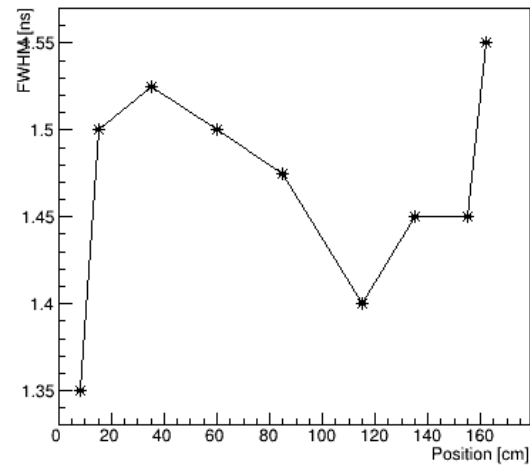Maximum – minimum = ~300ps

~50ps

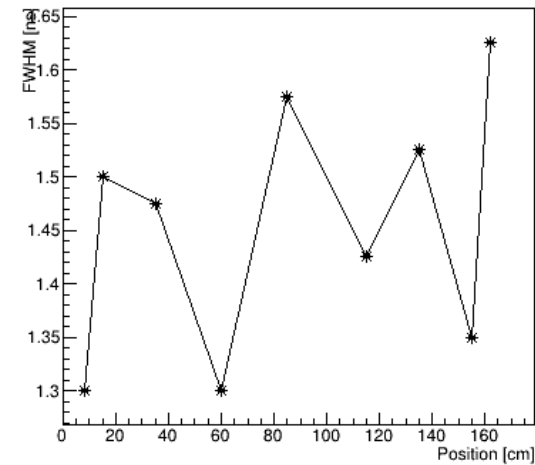# Back Up – change bin number

1bin = 25ps
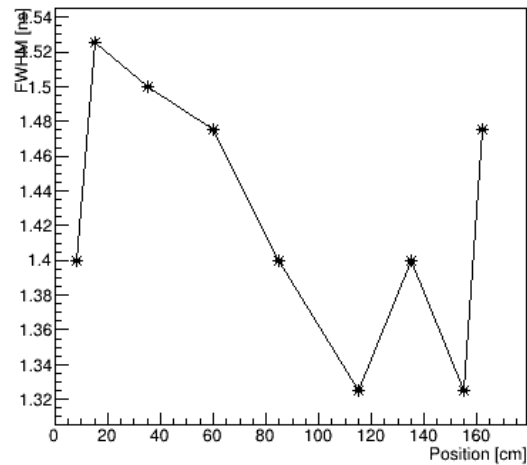
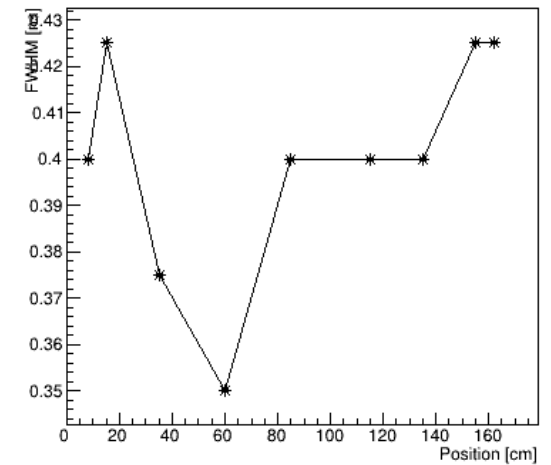# Back Up – FWHM of PWO

t0[up] – t0[down]