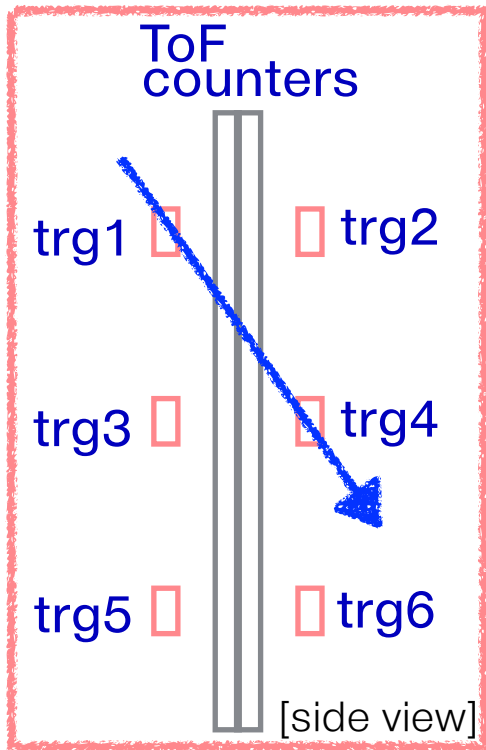


Status report

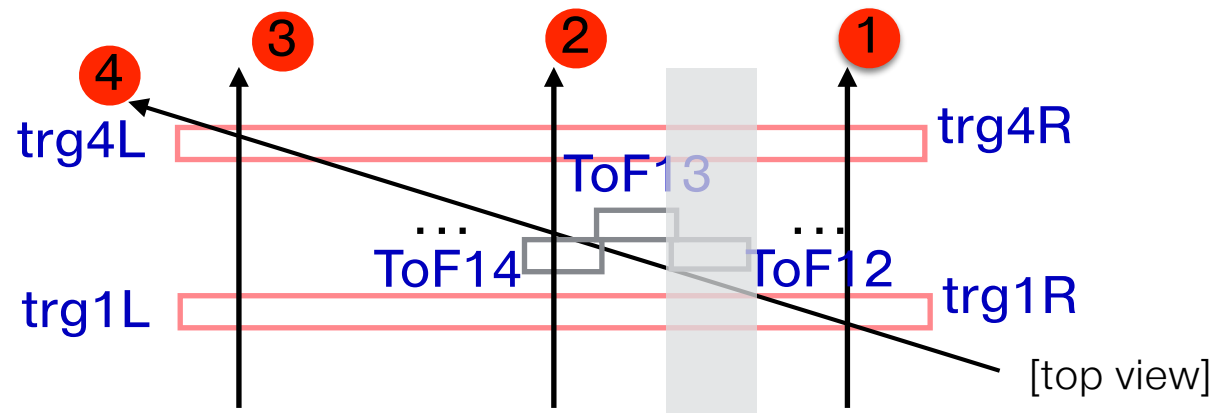
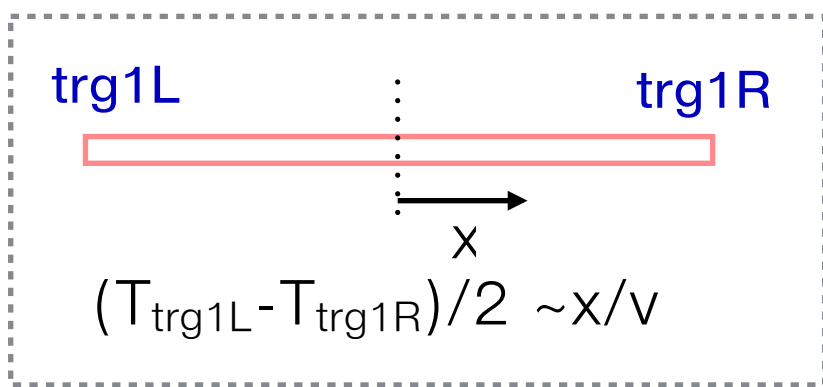
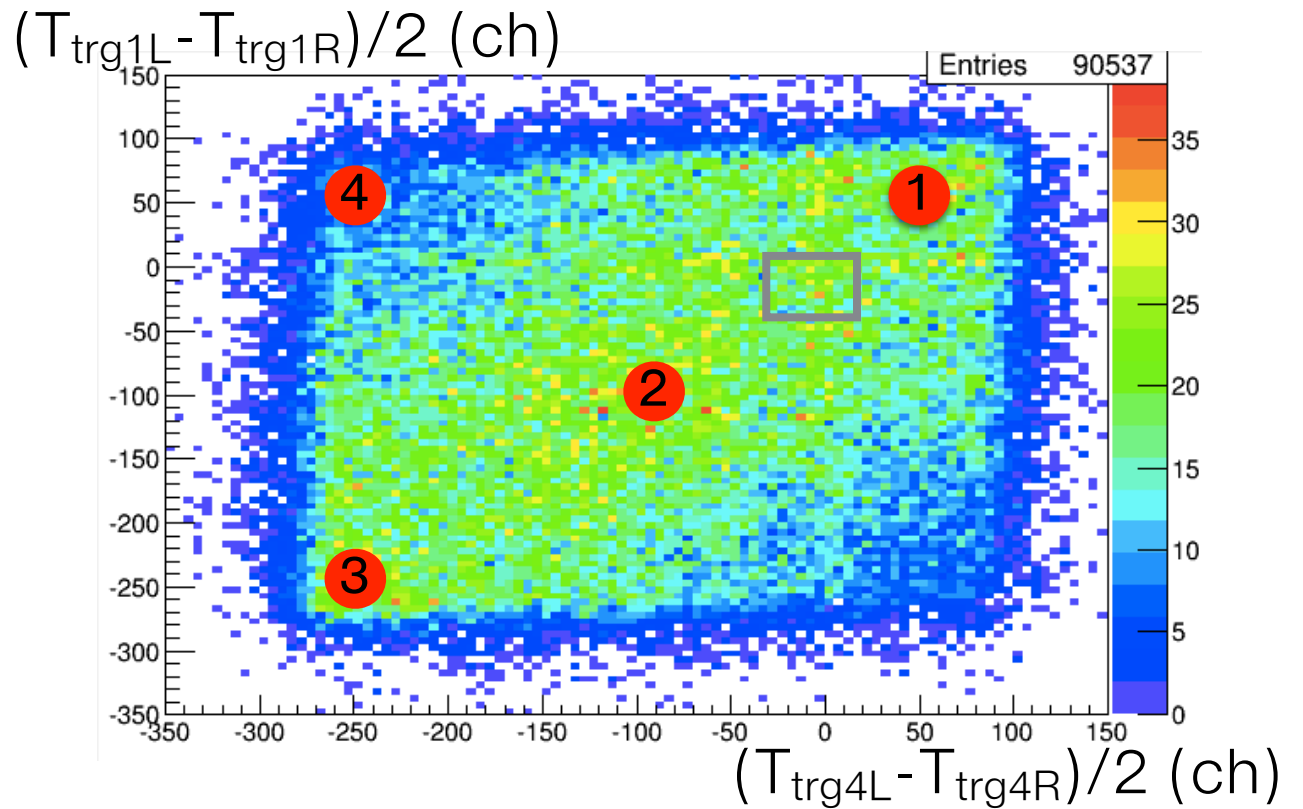
12 January 2015

Shinhyung Kim

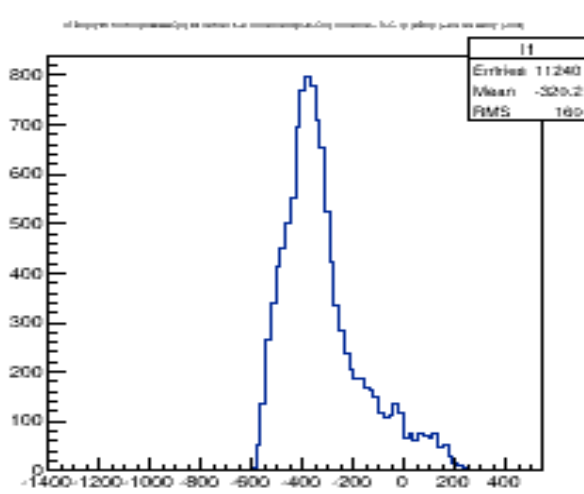
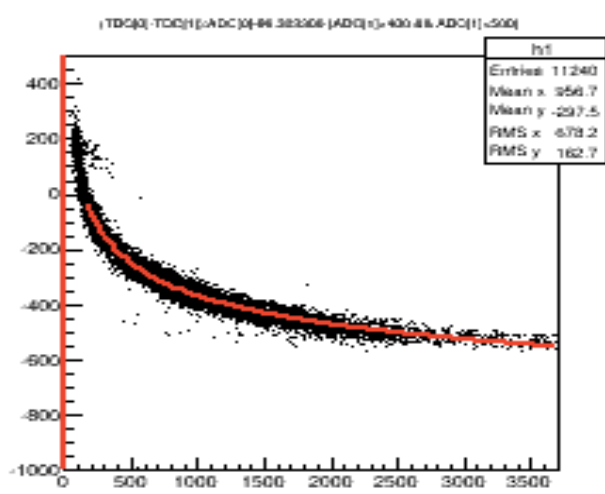
Event Selection



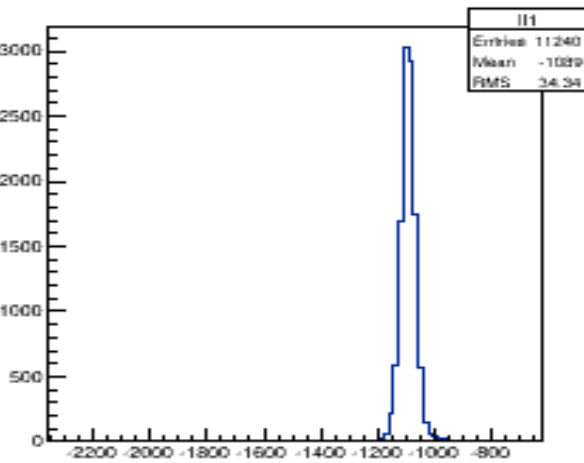
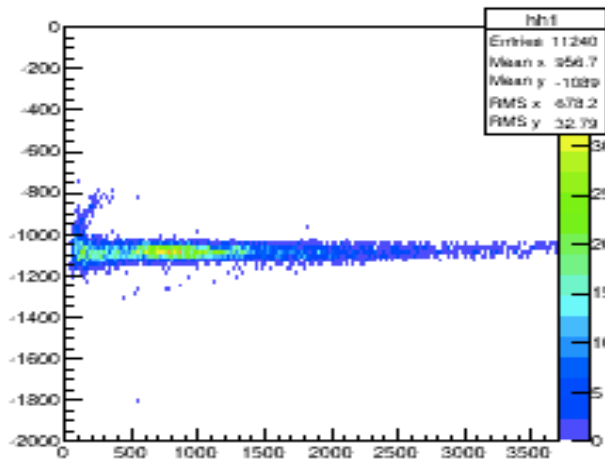
~90k events (14.4%)



~300 events (0.05%)

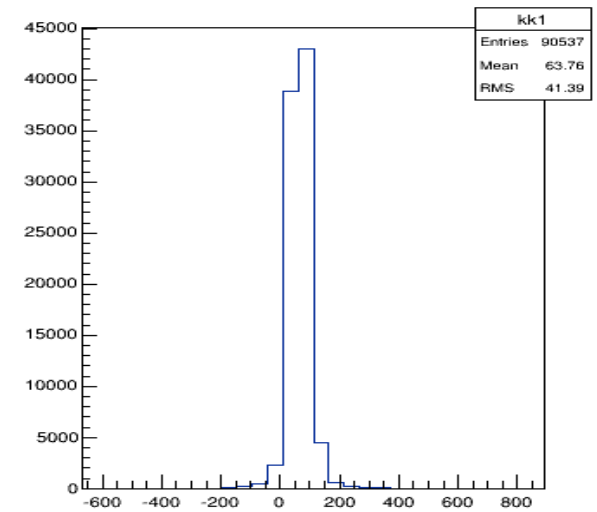
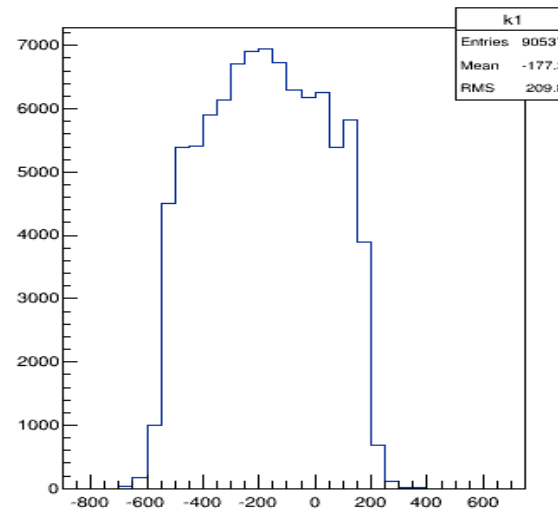


TDC1-TDC2 v.s. ADC1
w/ ADC2 fixed



TDC[0]-TDC[1]

lost position information



TDC1-TDC2 $\sim x/v$

ADC2/ADC1 $\sim \exp(2x/\lambda)$

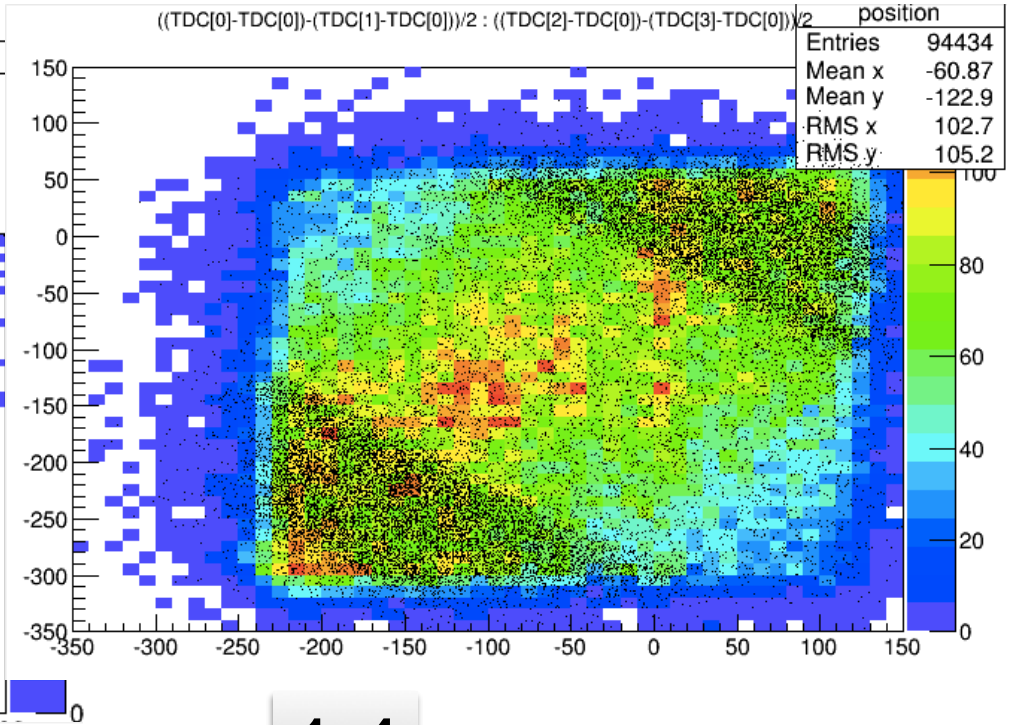
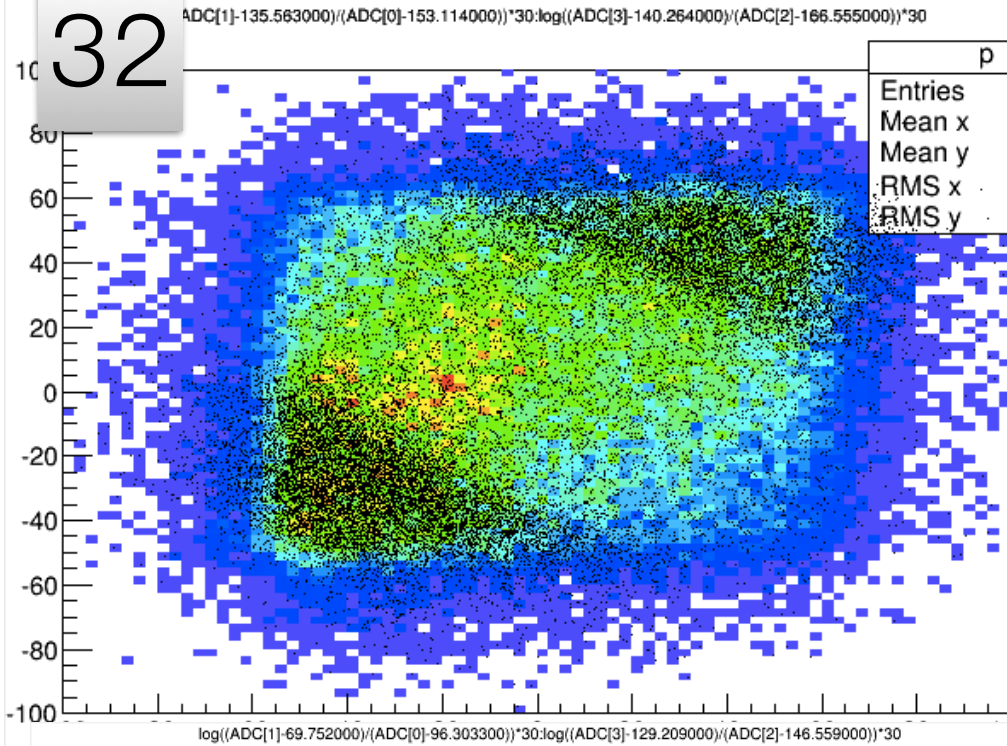
$$ADC_{top} = c_1 e^{-(90-y)/\lambda}$$

$$ADC_{bot} = c_2 e^{-(90+y)/\lambda}$$

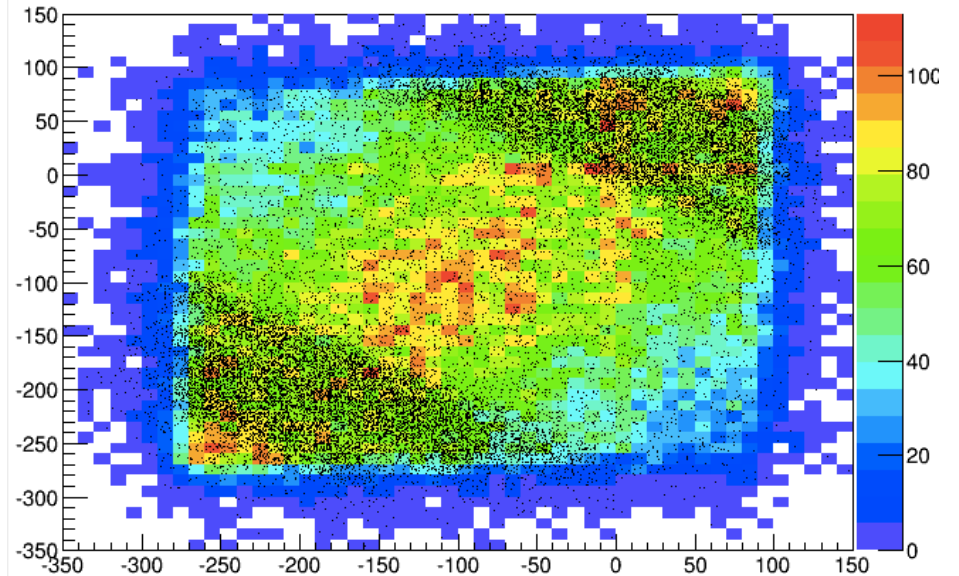
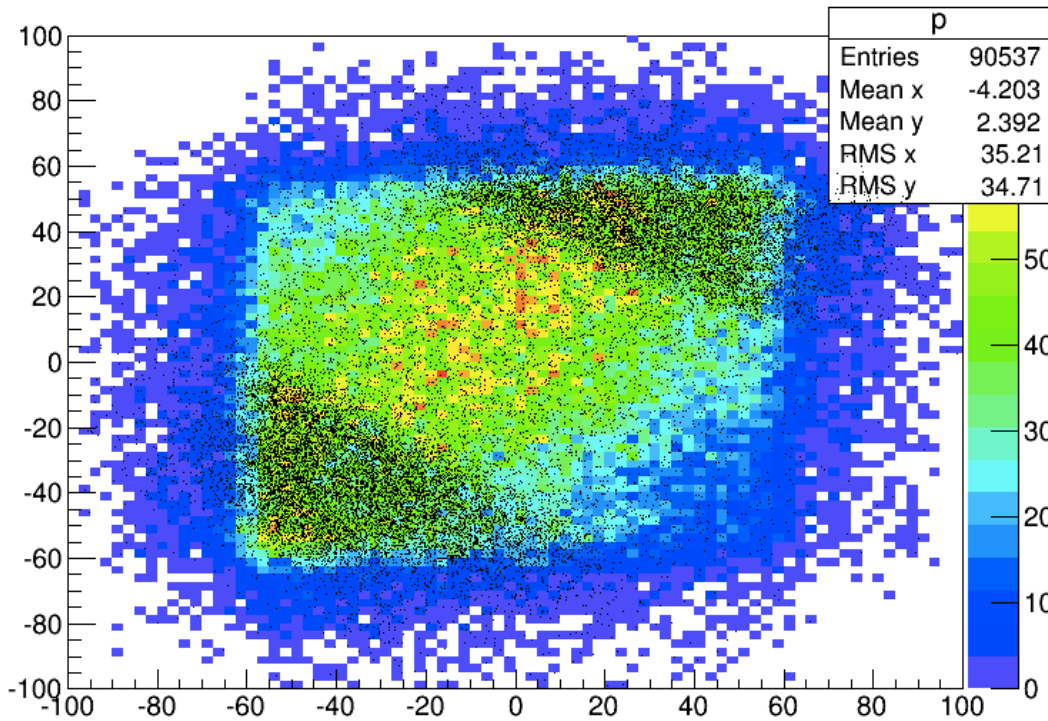
$$y = \lambda \cdot \frac{1}{2} \log\left[\frac{ADC_{top}}{ADC_{bot}}\right] + \frac{\lambda}{2} \log(c_2/c_1).$$

instead of (TDC1-TDC2)/2 v.s. (TDC3-TDC4)/2,
log(ADC2/ADC1) v.s. log(ADC4/ADC3) ?

32

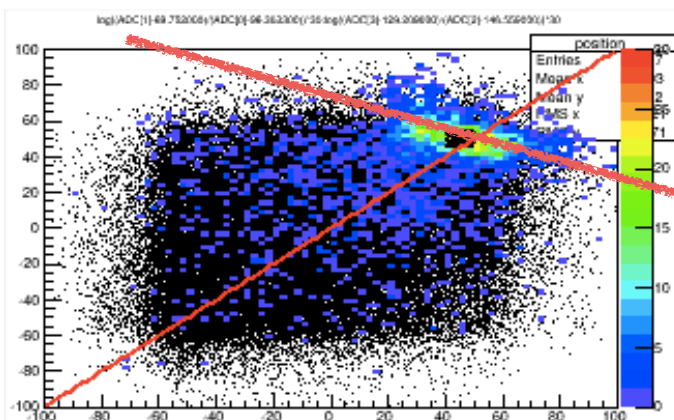


14

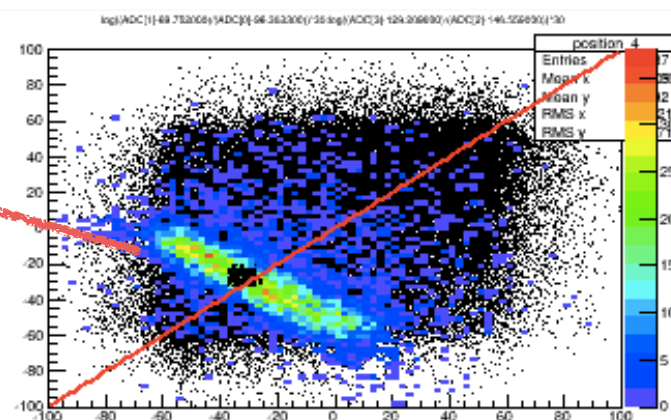


$\log(\text{ADC1}/\text{ADC0})$ v.s. $\log(\text{ADC3}/\text{ADC2})$

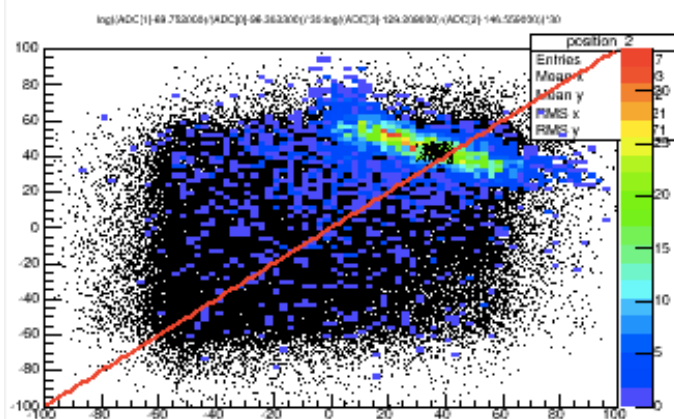
tof12



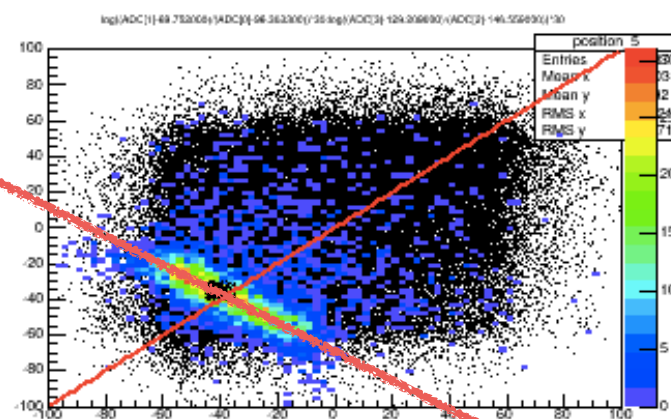
tof22



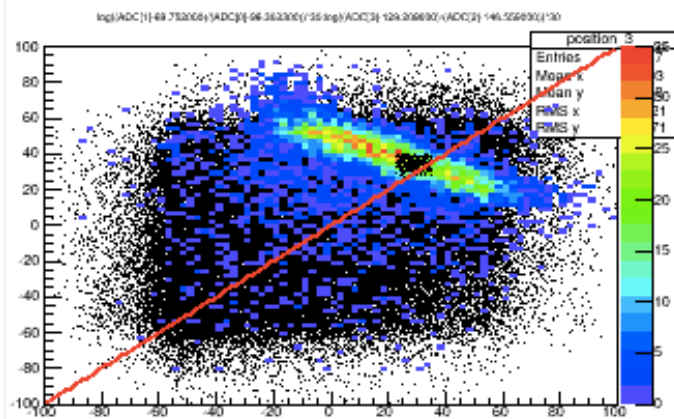
tof13



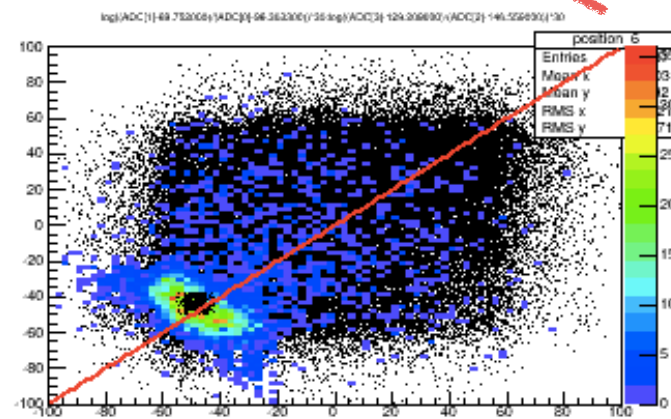
tof23

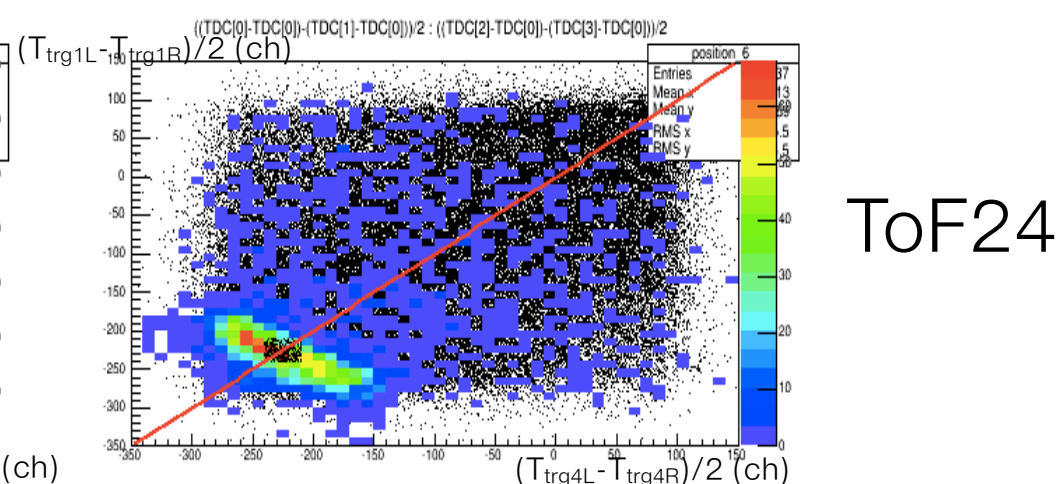
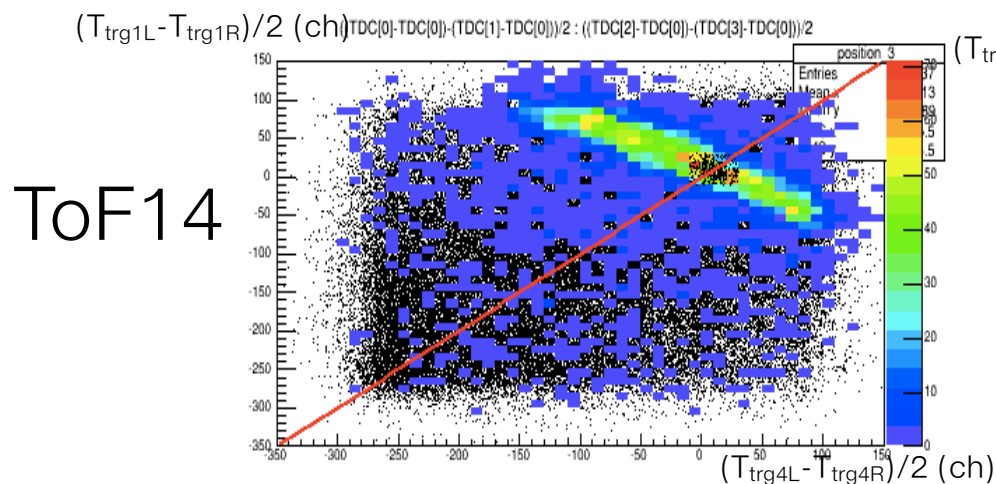
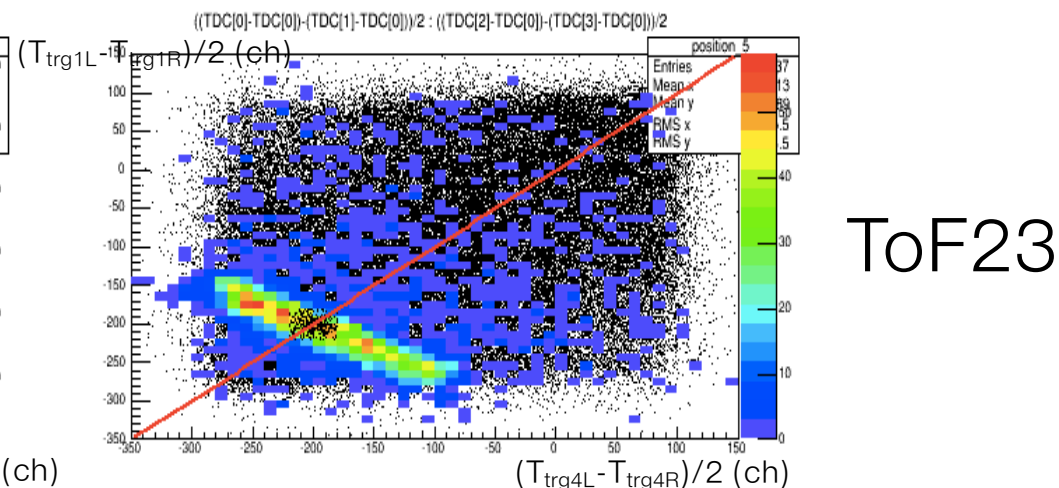
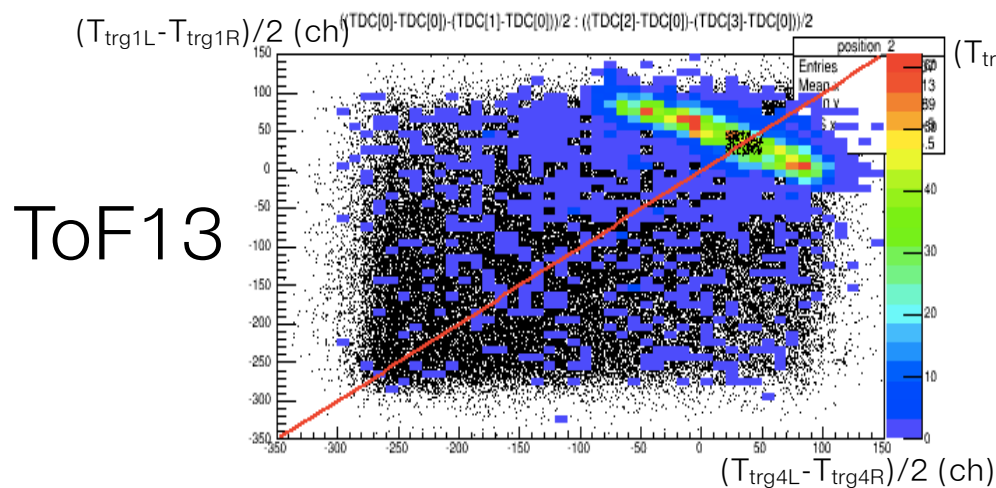
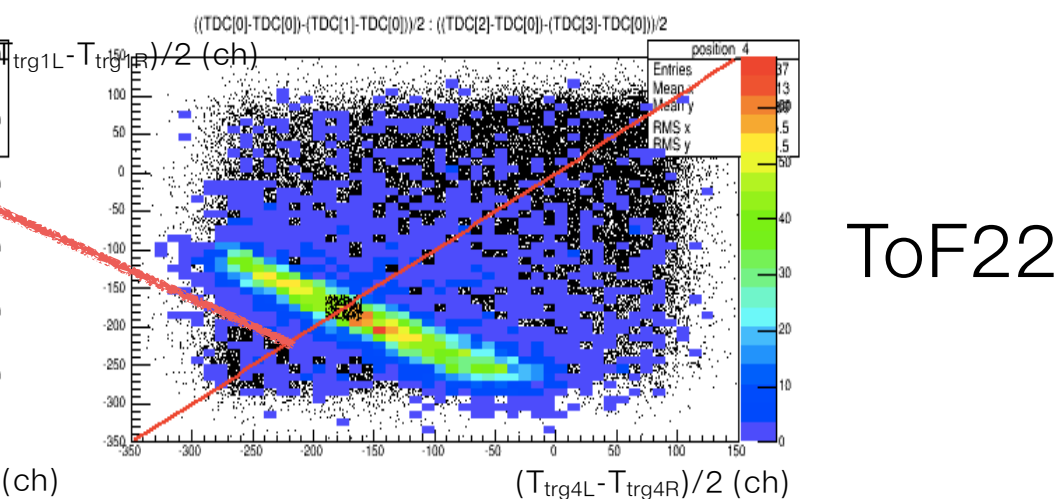
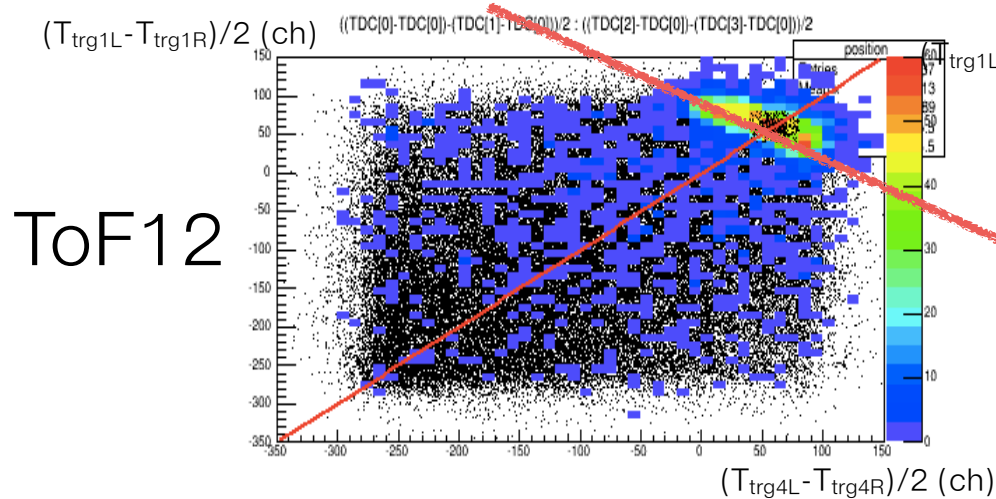


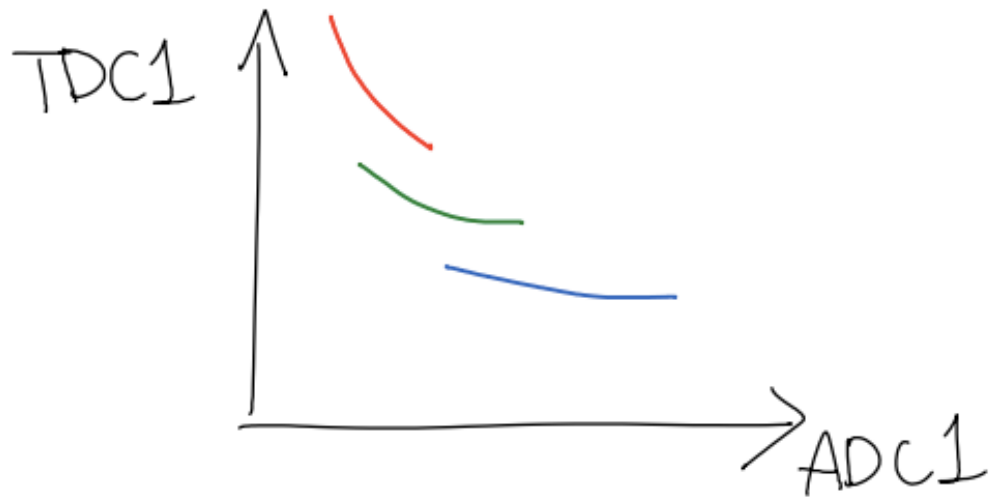
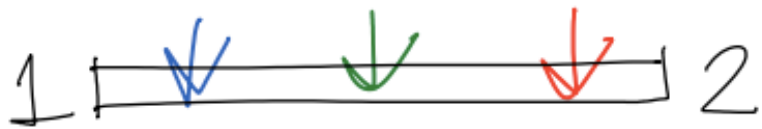
tof14



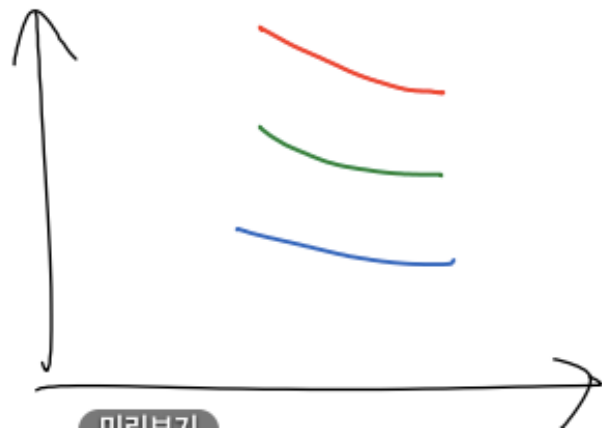
tof24



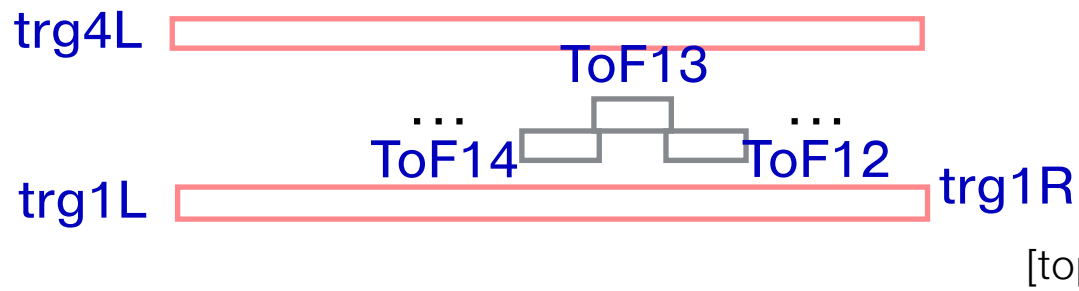




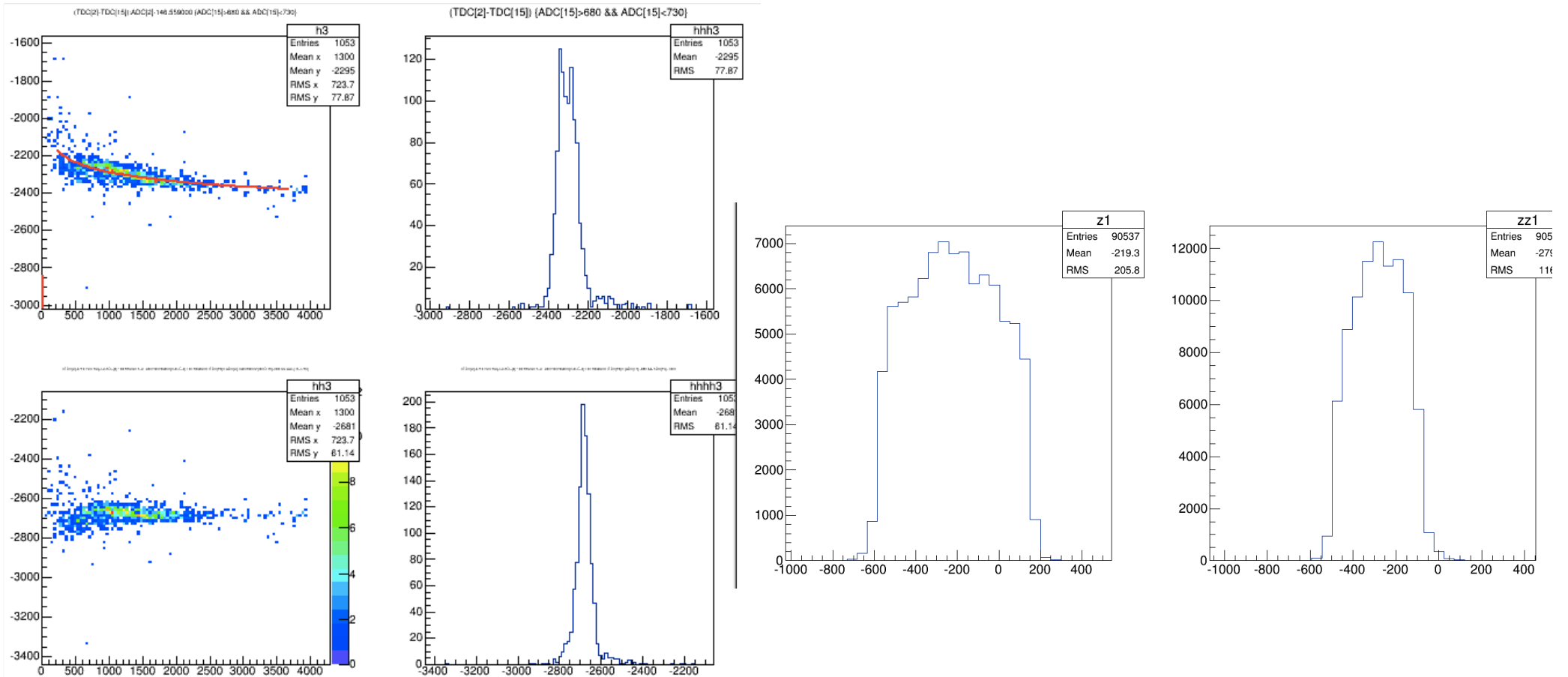
attenuation effect on

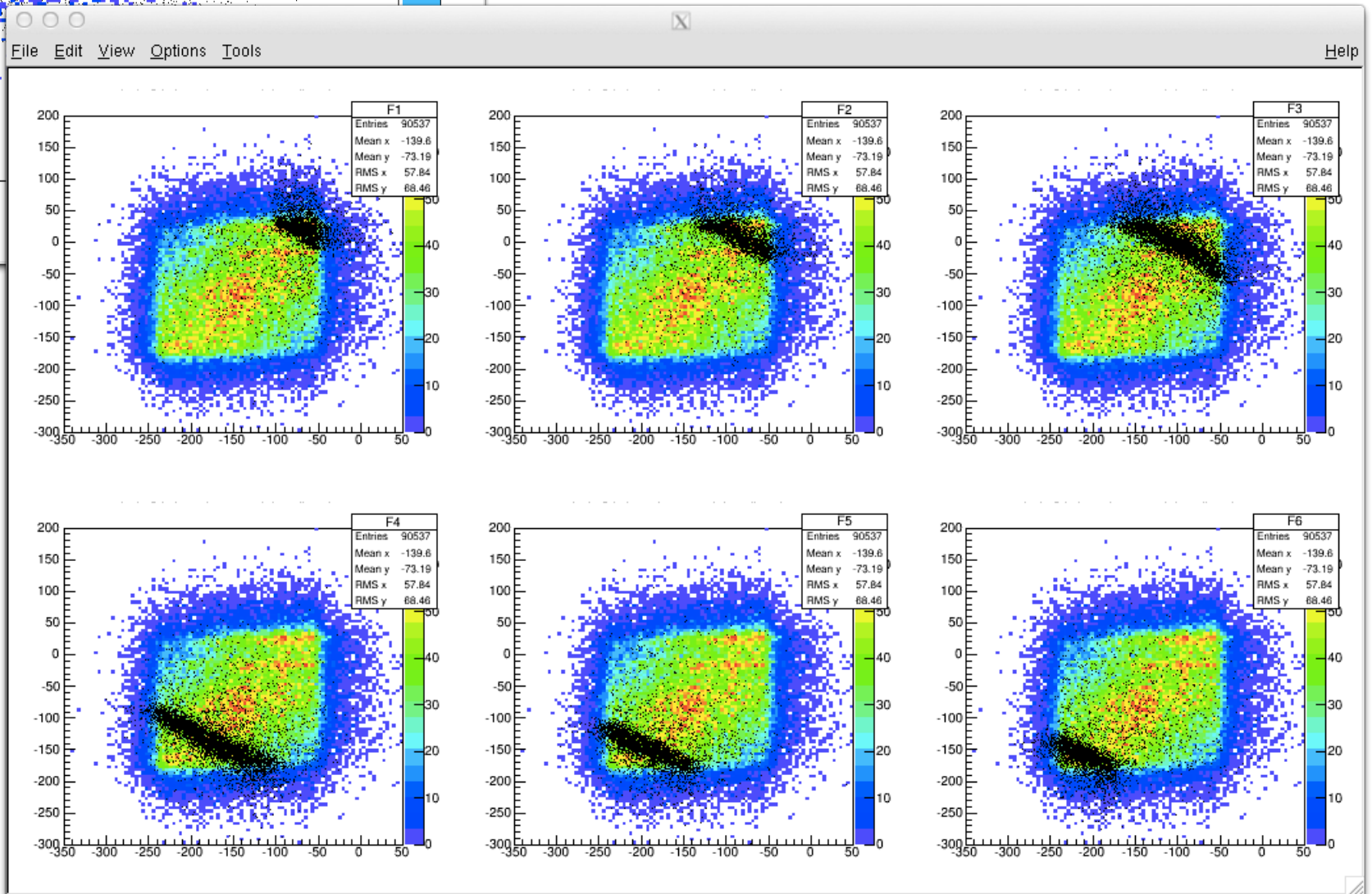
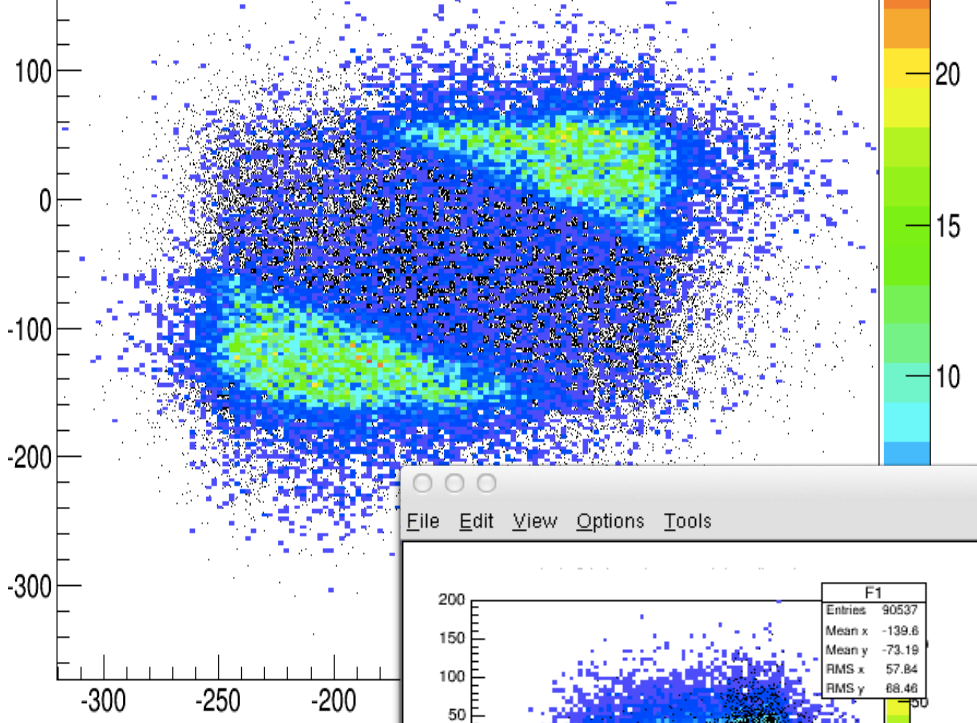


attenuation effect off



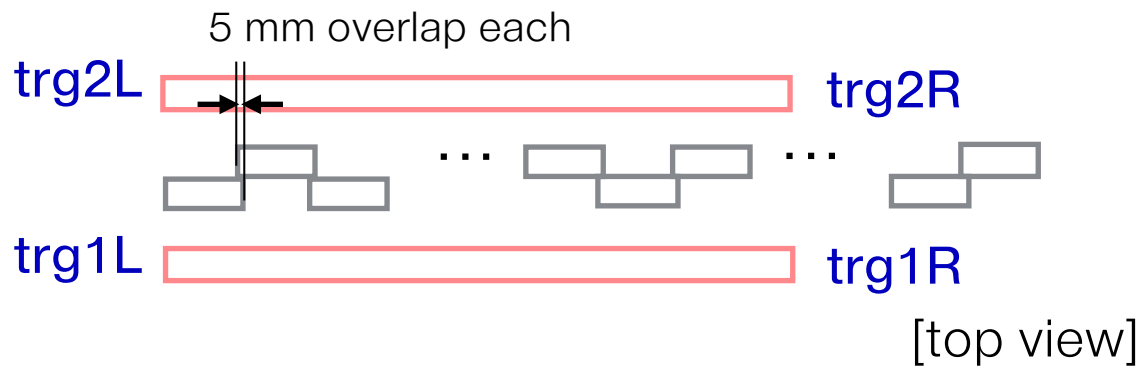
TDC_trg4L - TDC_ToF24D v.s. ADC_trg4L w/ ADC_ToF24D fixed





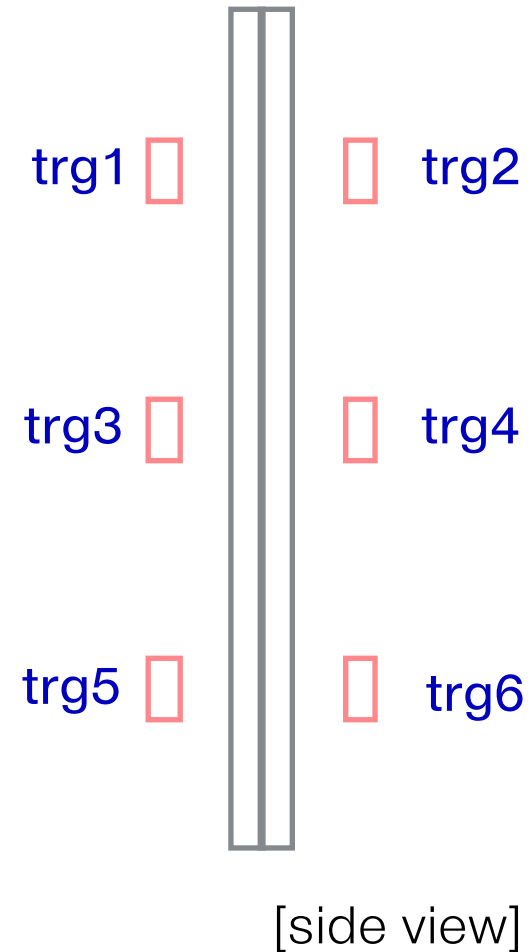
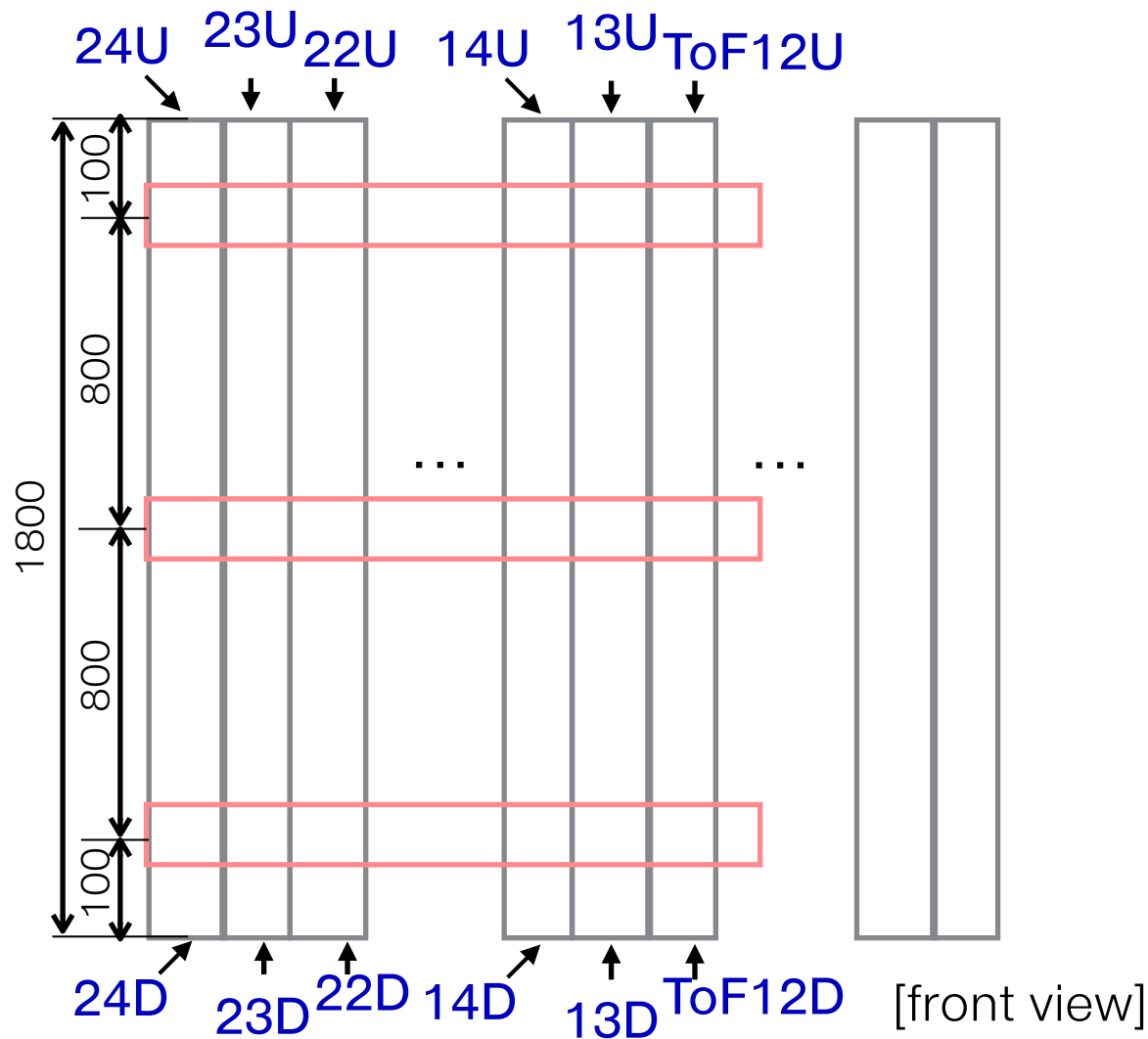
- DAQ system
 - CsI energy Calibration
- TPC test @ J-PARC (1/22-2/4, 2/14-)

Back-up



24 ToF counters
 30 x 80 x 1800 mm³

6 trigger counters
 30 x 80 x 1200 mm³



Trigger Condition

- ~1 Hz trigger rate
- # of triggered events : ~0.6M

