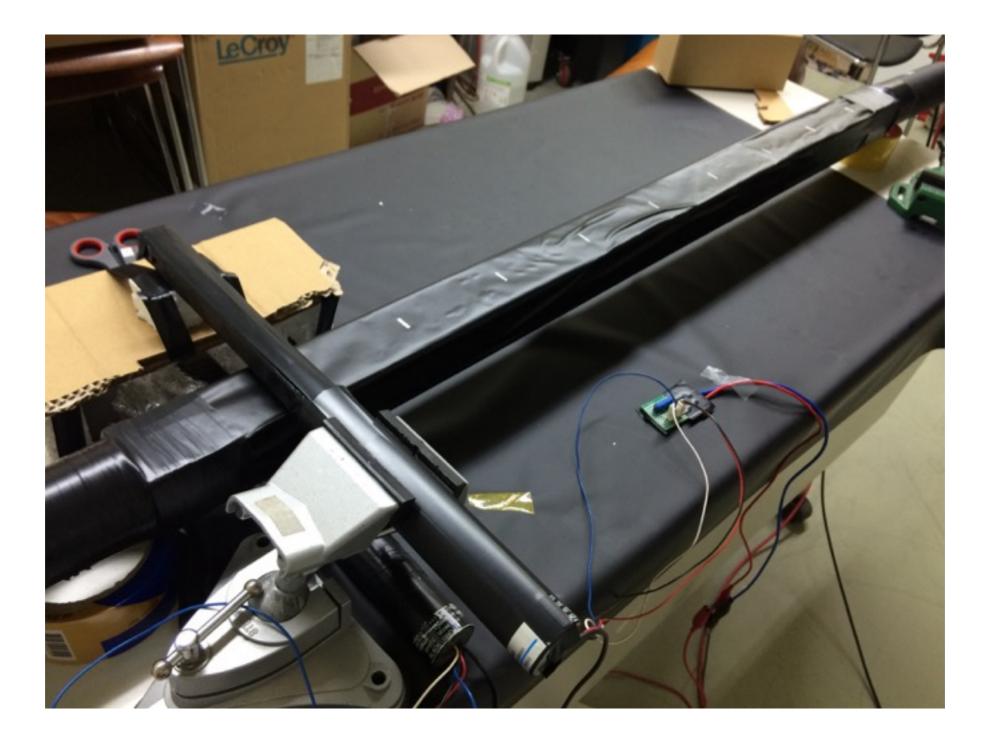
## Lab Meeting (8 June 2016)

Jongwon Hwang

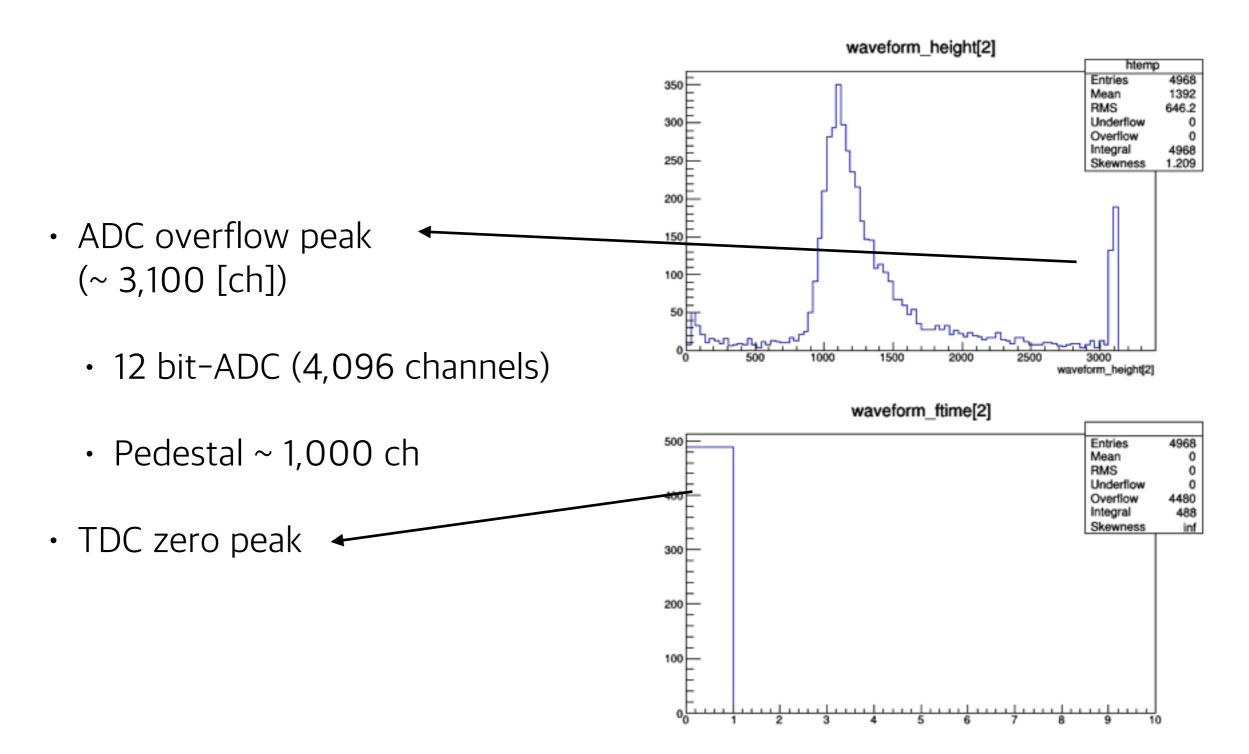
# Test of the DAQ system with PWO scintillation crystal

- Scintillation bar (5 x 5 x 200 cm<sup>3</sup>) with 2 PMTs
- Trigger
  - 2 PWO cubes (2 x 2 x 2 cm3) with a PMT (~ 15 May)
  - 2 PWO bars (2 x 2 x 20 cm3) with a PMT (26 May ~)
- Setup: Triggers locates above and below the bar.
- DAQ: FADC500-IBS (Ch 1, 2 (trig.) / 3, 4 (bar)) (4-coin.)

#### Test of the DAQ system with PWO scintillation crystal

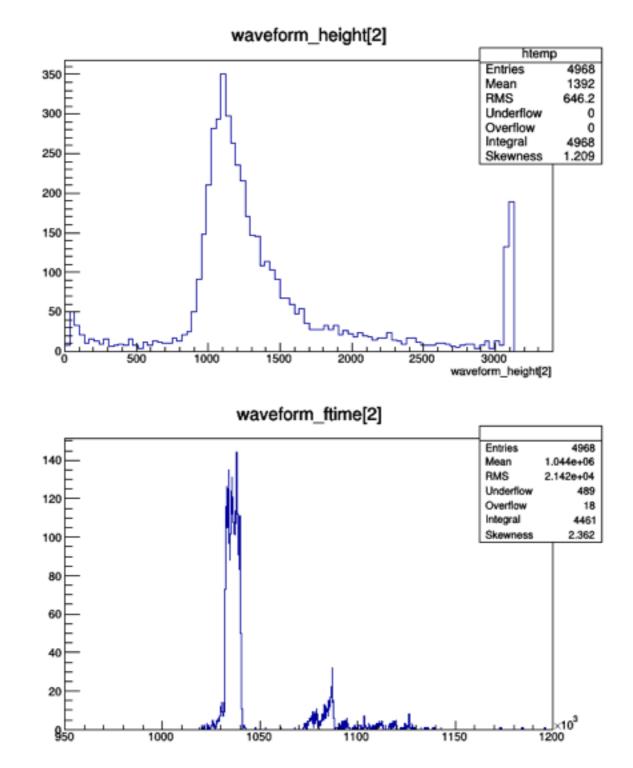


#### Raw data

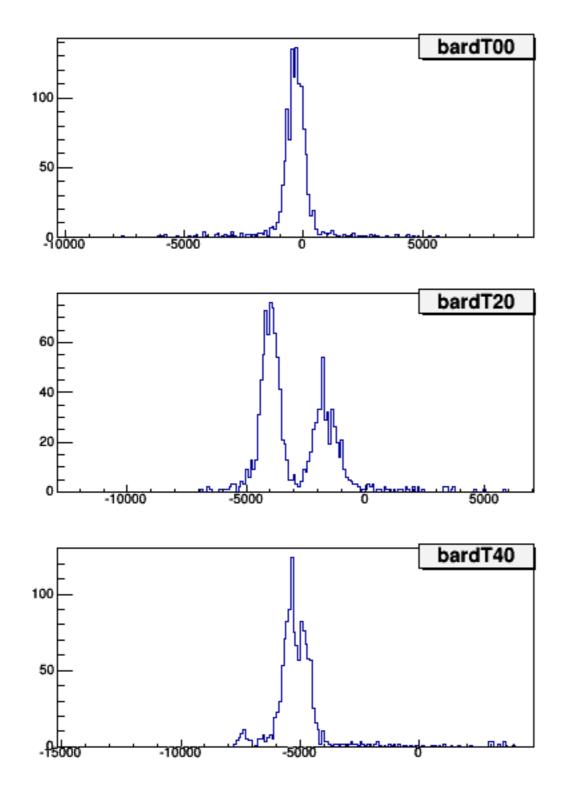


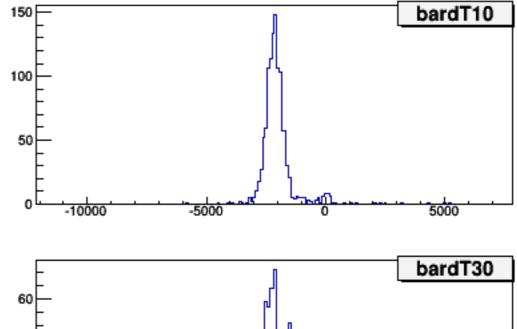
#### Cut

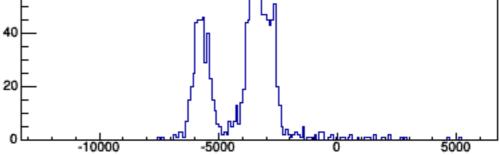
- TDC Cut: around main peak (about 1,000 ns ~ 1,050 ns)
- ADC Cut: around main peak (about x ch ~ x ch)
- for all channel (trig. & bar)



#### $\Delta T$ of bar







Double peaks?

### GEANT4 simulation

- Got the code from Dr. Kim.
- Succeeded to compile.
- Failed to run. (Segmentation fault)
  - Might be a memory-related problem.