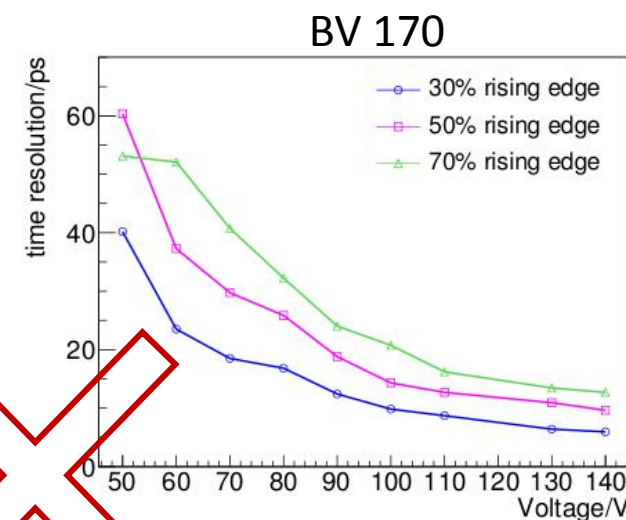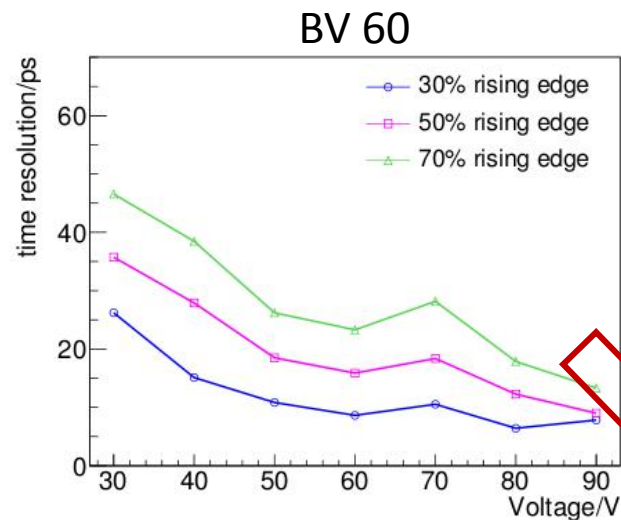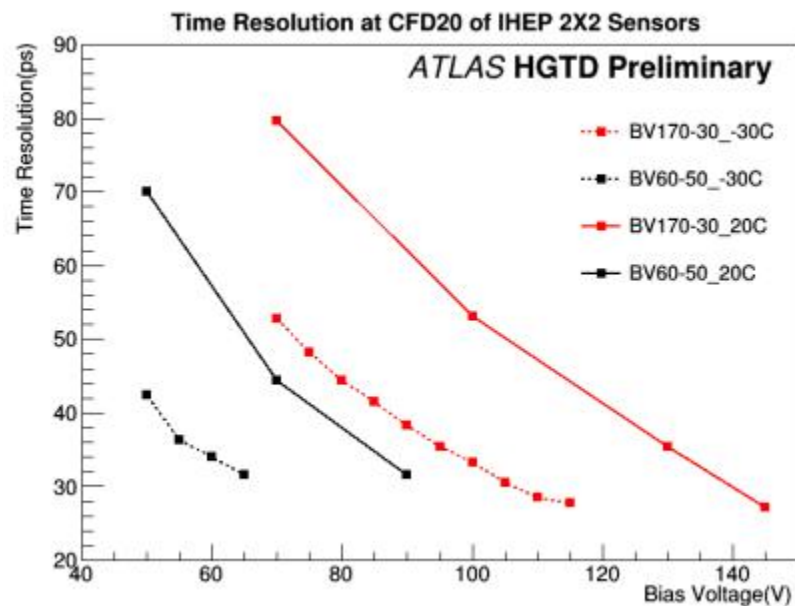# Updated time resolution for BV170 & BV60
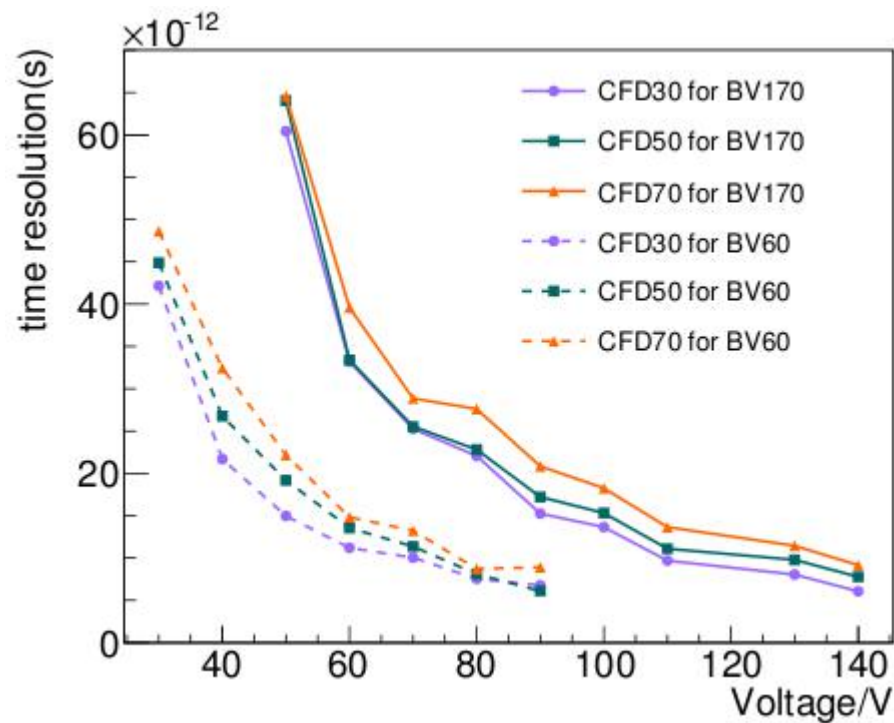
Suyu Xiao from IHEP

20190530

Big difference from beta scope measurement

https://indico.cern.ch/event/816136/contributions/3406686/attachments/1847467/3031646/IHEP_2x2_Test.pdf

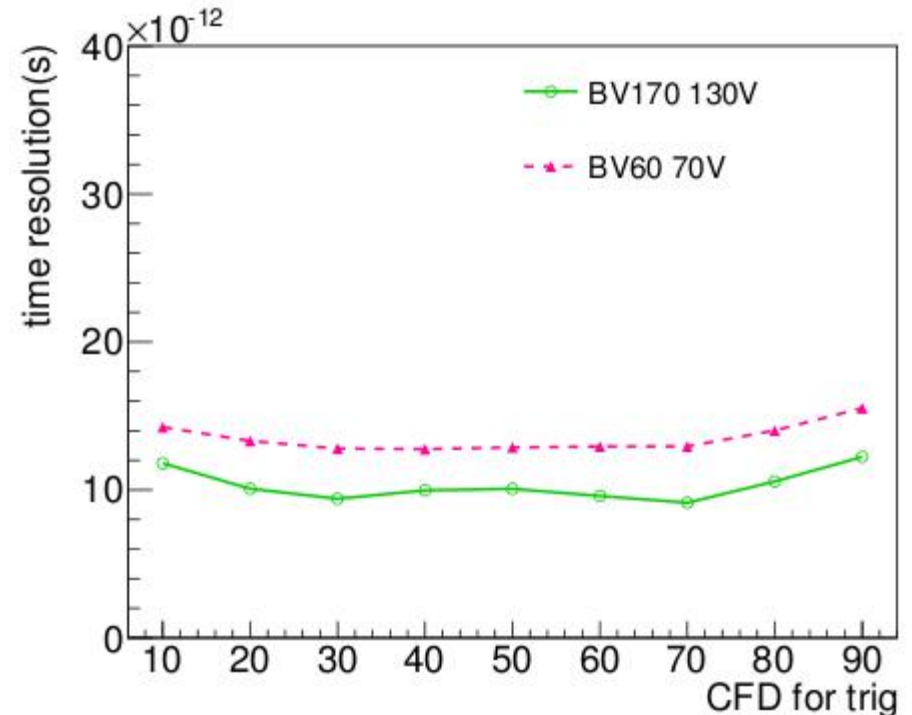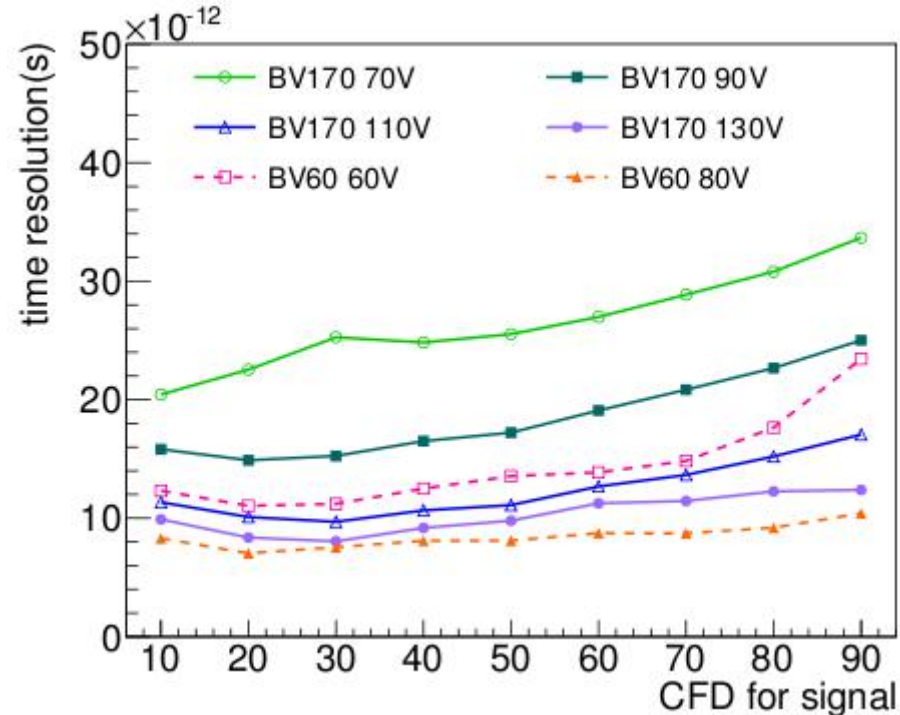- Many thanks to Liaoshan!
- A bug was found in my analysis code.

Preliminary time resolution for BV170 & BV60

Laser test
Trigger CFD50
No temperature control
Sigma as time resolution

- Here we take sigma(instead of FWHM) as time resolution.
- Time resolution is around 10ps at working voltage.

CFD study for signal & trigger

- CFD for signal does affect the time resolution. CFD20 seems good enough.
- Effect from CFD for trigger is small in range 30-70. CFD50 is safe for our measurement.