

Preliminary result for Testbeam @ DESY

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General information

- Rootfiles are saved here:

/eos/atlas/atlascerngroupdisk/det-hgtd/testbeam/HGTDPyAna/v00-16-01/May2019

timeCFD20, timeCFD50 and timeCFD70 can be directly got.

SiPM time is taken as trigger.

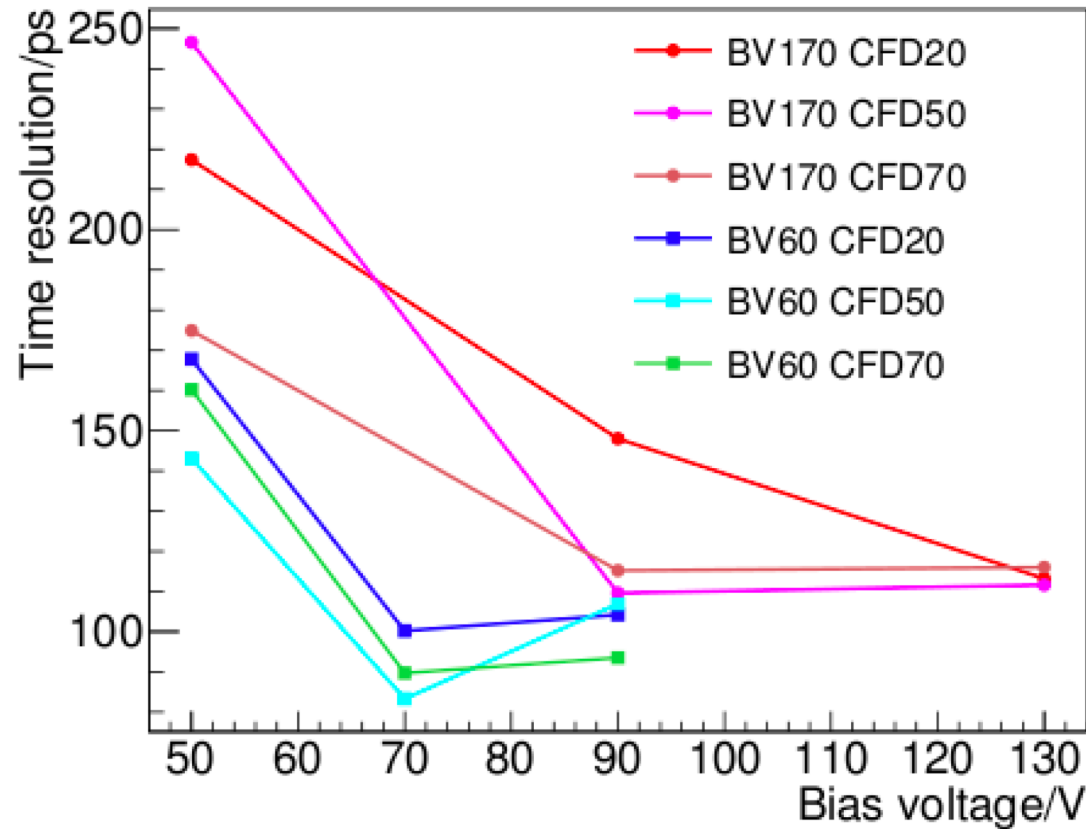
- Detailed information can be found here:

<https://gitlab.cern.ch/atlas-hgtd/TestBeam/PyAna/blob/master/Database/RunInfoMay2019.dat>

3 voltages are tested for each sensor.

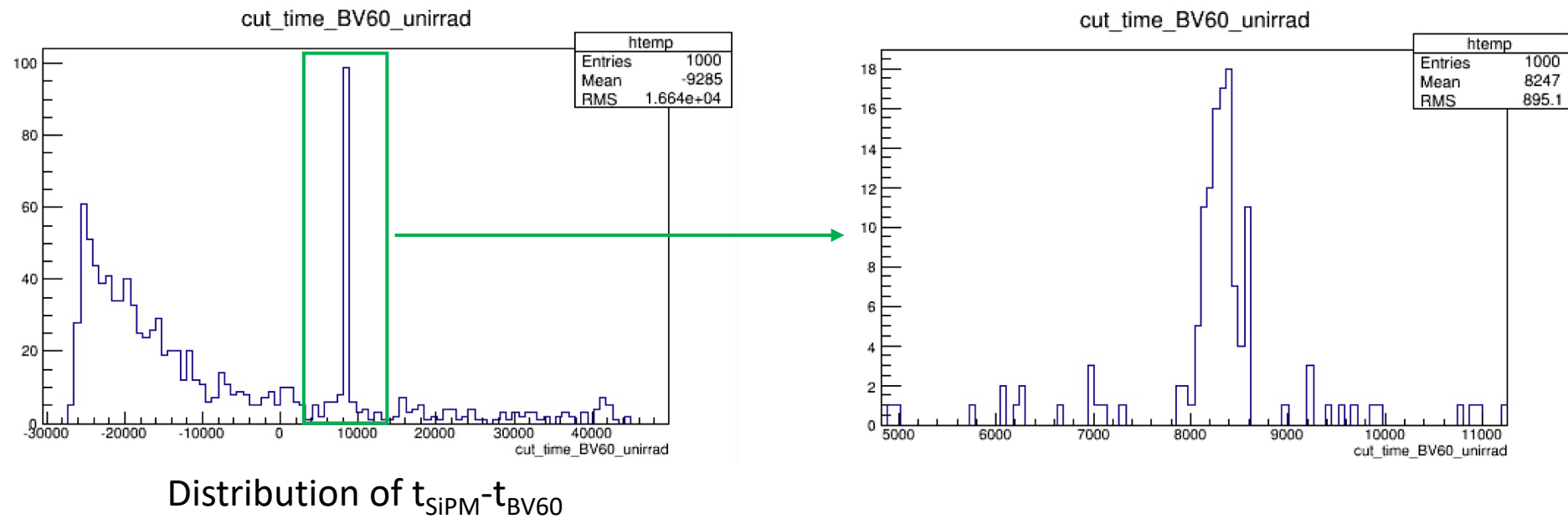
Temperature is fixed at 20degree.

Preliminary time resolution



- Time resolution is around **100ps**, which seems not reasonable compared with our previous laser test results(around **10ps**).

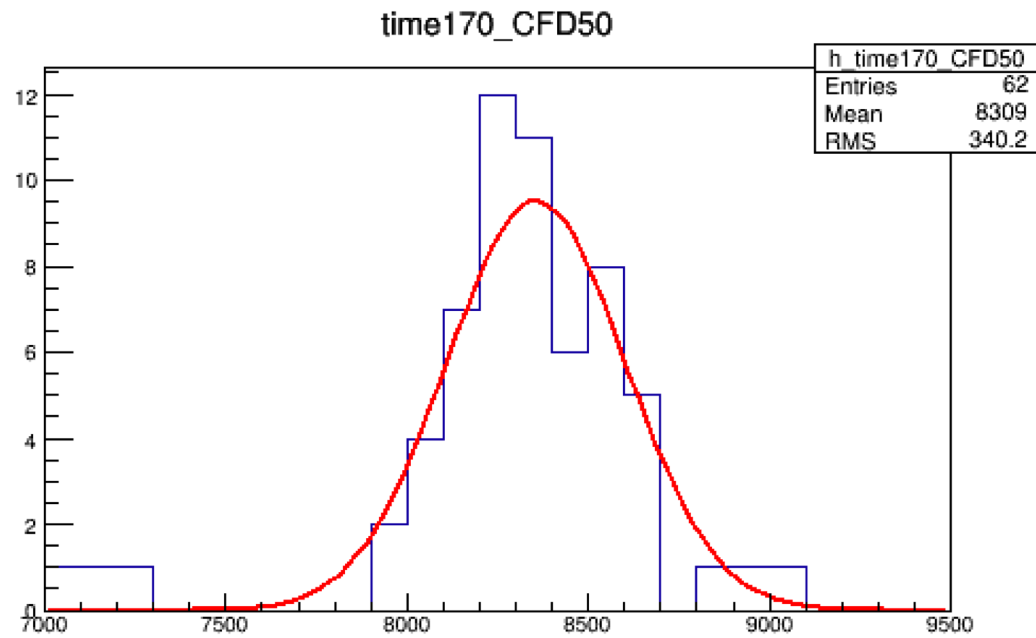
Back-up



- Background events are large.

Back-up

- 2 inconsistent points
 - BV170 CFD50 50V



BV60 CFD50 90V

