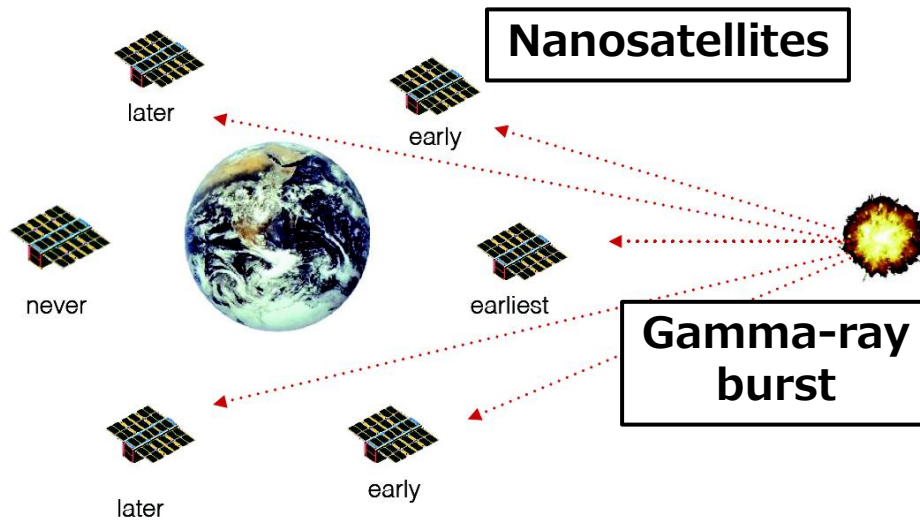


Performance Study of a Large CsI (TI) Scintillator with an MPPC Readout for Nanosatellites Used to Localize Gamma-Ray Bursts

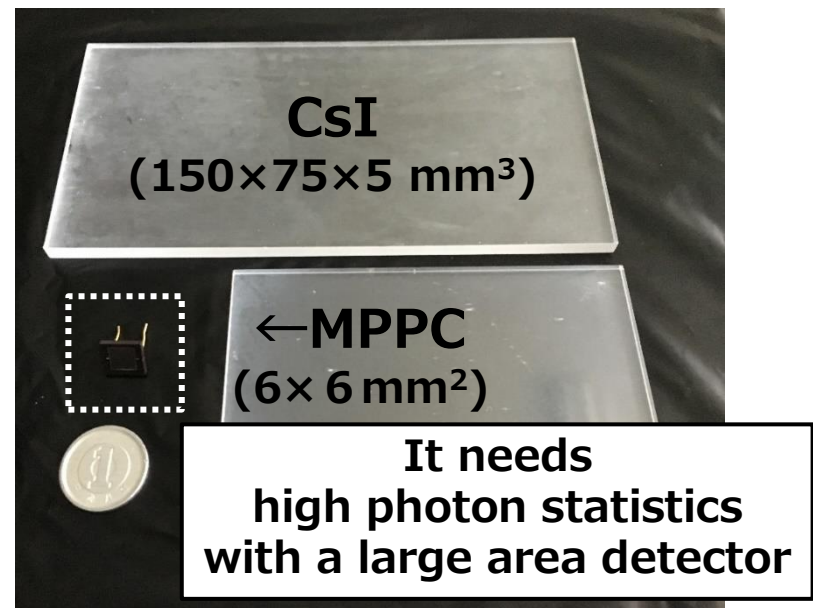
Kento Torigoe, Japanese-Hungarian collaboration
PI: Norbert Werner



Localization by measuring arrival time differences

CAMELOT

CubeSats Applied for
MEasuring and Localizing Transients

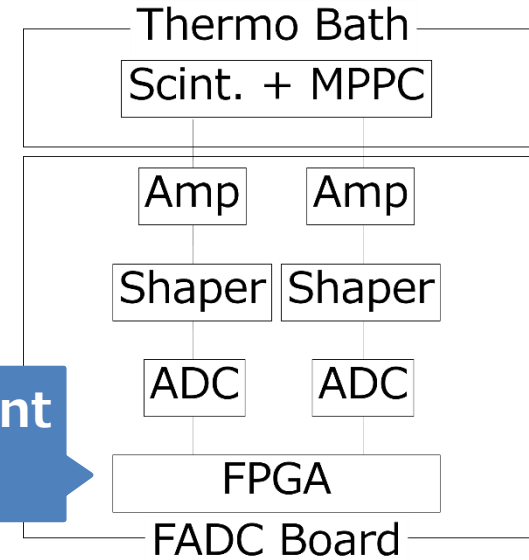


Detector:

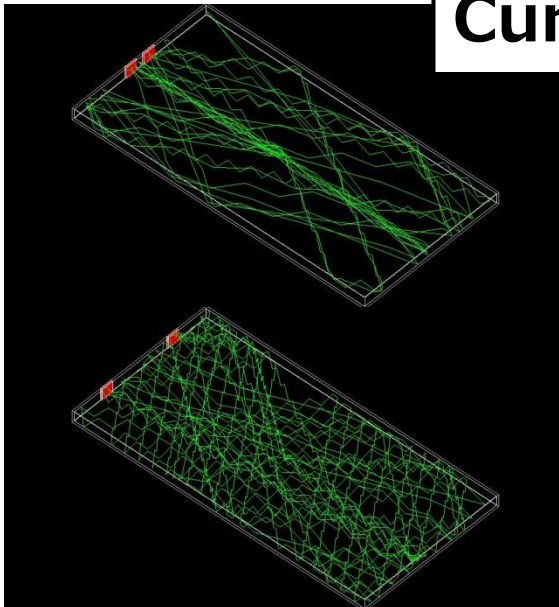
- Large CsI (high light output)
- MPPC (low power consumption)

In order to improve the light yield, we developed multiple readout system with MPPCs

- Light yield and uniformity was improved
- Energy threshold is ~ 10 keV at 25 °C



Current study



Optimum position of two MPPCs based on Geant4 simulation



Effect of radiation damage to MPPCs in orbit by the proton beam test