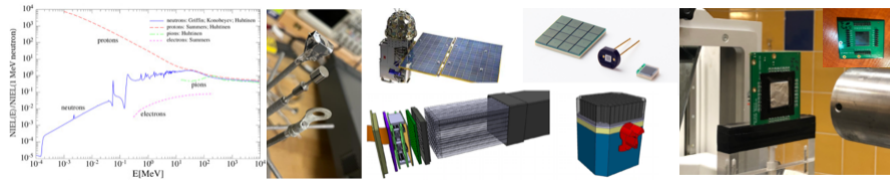


SiPM Radiation: Quantifying Light for Nuclear, Space and Medical Instruments under Harsh Radiation Conditions



Contribution ID: 19

Type: **not specified**

GECAM: a SiPM-based Gamma-ray All-Sky Monitor

Wednesday 27 April 2022 09:25 (25 minutes)

Gravitational wave high-energy Electromagnetic Counterpart All-sky Monitor (GECAM) is an all-sky monitor composed of two microsatellites launched in Dec. 2020. Each GECAM satellite is equipped with 25 SiPM-based gamma-ray detectors (GRD) and 8 SiPM-based charged particle detectors (CPD). Due to the anomalies in the satellite power supply, only one satellite (GECAM-B) can observe about 10 hours per day. Nevertheless, GECAM-B has detected many gamma-ray transients, including gamma-ray bursts (GRBs), soft gamma-ray repeaters (SGRs), bursts from X-ray Binaries (XRB), Solar Flares and Terrestrial Gamma-ray Flashes (TGFs). In this talk, I'll give an overview of the GECAM mission and the observation results of GECAM-B. The in-flight performance of the SiPM-based detectors will be also presented.

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Session Classification: SiPM Monitoring

Track Classification: Space Applications