

Topical Group 6: Silicon Detectors

- What we expected for particle and radiation detectors
 - CCDs for cosmic frontier
 - Hybrid pixel detectors for energy frontier
 - SiPM radiation detectors for neutrons
 - Readout development
 - Systems integration
- Trainee skills development
 - Electrical characterization
 - High-speed DAQ
 - Detector calibration
 - Systems integration
- TG6 absorbed “fast-timing” group and expanded to “semiconductors”
- Mentors
 - Chertok, Tripathi, Tyson (UCD)
 - Nielsen, Ritz, Schumm (UCSC)
 - Brubaker, Sweany (SNL)
 - Vernieri (SLAC)
- Students
 - Blanca Nino (UCD)
 - Adam Molnar, Rene Padilla, Earl Almazan (UCSC)
 - Mirella Vassilev (Stanford)
- Lab: LGAD sensors, CCD+lens
- Lectures
 - Si diodes (Schumm), SiPMs for neutron detection (Sweany), CCDs (Tyson)