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## SiPM Arrays for Space-Based Detectors

*Thursday, 3 October 2019 16:00 (20 minutes)*

Silicon photomultipliers (SiPMs) are an attractive option for space-based detectors for astrophysics because of their ruggedness, low size/weight/power requirements, and reproducibility. The U.S. Naval Research Laboratory has utilized its in-house experience in both astrophysics and detector development to design, characterize, instrument, and deploy SiPM arrays for space applications. The Strontium Iodide Radiation Instrument (SIRI) was launched on 3 December 2018 and has been successfully operating in orbit since that time. Recent successes with SIRI as well as ongoing/future projects (e.g., GLOWBUG, AMEGO, SIRI-2, GARI) will be discussed.

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