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BurstCube: A CubeSat for Gamma-Ray Counterparts to Gravitational Waves

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BurstCube is a 6U (10 x 20 x 30 cm) CubeSat launching in 2023 that is designed to expand our view of the gamma-ray sky, complementary to Fermi-GBM and Swift-BAT. It will detect gamma-ray bursts and other short-duration transients, including those that could be coincident with gravitational wave detections of neutron star mergers. It is composed of four 9-cm diameter CsI scintillator crystals coupled to arrays of silicon photomultipliers. They are pointed 45 degrees apart and will observe the energy band from 50keV to 1MeV. I will describe the mission overview, the status of development, and plans for on-orbit operations, including some novel features for a CubeSat, such as requested data downloads and usage of the NASA Tracking and Data Relay Satellite System (TDRSS)

Track

Future Missions/Instruments

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