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Gamma Rays from Space

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The Fermi Gamma-Ray Space Telescope, formerly called GLAST, measures the cosmic gamma-ray flux in the energy range from 20 MeV to >300 GeV, with supporting measurements for gamma-ray bursts from 8 keV to 30 MeV. In addition, to breakthrough capabilities in energy coverage and localization, the very large field of view enables observations of 20% of the sky at any instant, and the entire sky on a timescale of a few hours. With its launch just over 2.5 years ago, Fermi opens a new and important window on a wide variety of phenomena, including pulsars, black holes and active Galactic nuclei, gamma-ray bursts, supernova remnants and the origins of cosmic rays, and searches for hypothetical new phenomena such as particle dark-matter annihilations. In addition to a summary of results and science opportunities, this talk notes important connections between IceCube and Fermi.

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