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Introduction to the Very Large Area gamma-ray Space Telescope (VLAST)

Wednesday, 21 August 2024 10:00 (30 minutes)

The Very Large Area gamma-ray Space Telescope (VLAST) is a mission concept proposed to detect gamma-ray photons through both the Compton scattering and electron-positron pair production mechanisms, enabling the detection of photons with energies ranging from MeV to TeV. VLAST is designed to have an acceptance of 10 m^2 sr which is four times larger than Fermi-LAT, an energy resolution of ~2% at 10 GeV, and an angular resolution of ~0.2 degrees at 10~GeV. The VLAST project is expected to make significant contribution to the field of gamma-ray astronomy and the exploration of new physics.

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