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Early operations and first data of the high-energy HERMES payload onboard SpIRIT

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The Space Industry Responsive Intelligent Thermal (SpIRIT) is a 6U CubeSat nano-satellite mission born from a collaboration between Australia and Italy in high-energy astrophysics. The 6U CubeSat carries an actively cooled detector system payload in a Sun-synchronous orbit. This payload unit hosts advanced X-ray and gamma-ray detectors identical to those on board the High Energy Rapid Modular Ensemble of Satellites (HERMES) Technologic and Scientific Pathfinder ASI mission. These detectors are designed to localize high-energy astrophysical transients, such as Gamma-ray Bursts (GRBs).

Successfully launched on 2023 December 01 aboard a SpaceX Falcon 9, SpIRIT has completed the majority of its payload commissioning, with the final stages currently underway. This poster provides an overview of SpIRIT's scientific payload, highlighting its initial in-orbit operations, in-flight calibrations and scientific data observation.

Eligibility for "Best presentation for young researcher" or "Best poster for young researcher" prize

Yes

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