

The GRINTA mission for the next decade exploitation of the multimessenger sky

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The Gamma-Ray International Transient Array observatory (GRINTA) is a fast class mission designed to be a major breakthrough in the next decade (>2030) time domain astronomy, in particular for the multi-messenger domain. Transient signals from sources of gamma-ray bursts, gravitational waves and high energy neutrinos are known to produce hard X-rays that can be detected by an instrument with fast repointing capability and high sensitivity. The GRINTA S/C is designed to fly in a nearly equatorial Low Earth Orbit. It will implement a ~8 steradian FoV soft gamma-ray detector, paired to a highly sensitive hard X-ray imager. Its design and operational concept take full advantage of the heritage of the Swift and INTEGRAL missions in terms of rapid follow-up and survey capability.

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