



INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY (IIST)

High-Energy X-ray Instrumentation

From AstroSat Science to Next-Generation Payload Design

 **June 4-5, 2026**  **IIST Campus, Trivandrum**

WORKSHOP OVERVIEW

High-energy X-ray astronomy stands at a pivotal juncture. The wealth of observational data gathered by missions such as AstroSat, coupled with rapid advancements in detector materials and simulation capabilities, opens exciting new horizons. This workshop aims to consolidate these threads into a coherent forward-looking discussion.

KEY TOPICS

- ◆ AstroSat Analysis of Black Hole Sources
- ◆ AstroSat Response and Background Improvement Methodologies
- ◆ Cross Calibration of X-ray Instruments of AstroSat
- ◆ GEANT-4 Simulations for Novel Detector Designs
- ◆ ASIC-Detector Interface Integrations

INVITED SPEAKERS

Prof. A. R. Rao

PI of CZTI (AstroSat),
Retired Prof., TIFR, Mumbai

Sreekumar S.

Group Director, Digital
Systems Group, VSSC

Dr. Anuj Nandi

Division Head, Space
Astronomy Group, ISITE,
URSC Bangalore

Prof. Santabrata Das

HoD, Department of
Physics, IIT Guwahati

Priya P.

Section Head, Telemetry
Systems, DSG/AVN/VSSC

Organized by the Department of Earth & Space Sciences, IIST
Convener: Samir Mandal, Professor, IIST

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