

# National Workshop on Hands-on Data Analysis of XSPECT on-board XPoSat

June 2<sup>nd</sup> – June 4<sup>th</sup> 2025

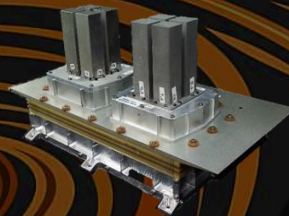
U R Rao Satellite Centre, Bengaluru

The **National Workshop** on Hands-on Data Analysis of XSPECT on-board *XPoSat* will be hosted by U R Rao Satellite Centre, Bengaluru, during June 2-4, 2025. This workshop will bring young researchers across India, working in the field of X-ray astronomy, together to discuss the recent trends in this field and also to have a hands-on experience of analysis of data from the instrument XSPECT onboard XPoSat in order to carry out spectral and timing studies of X-ray sources in the 0.8 – 15 keV energy range.



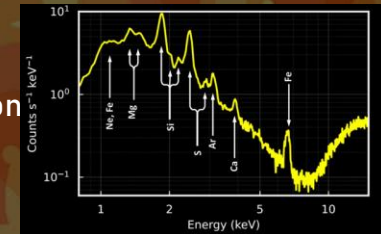
## Salient Features of the XSPECT Instrument

Parameter	Specification
Energy Range	0.8 - 15 keV
Energy Resolution	< 180 eV @ 6 keV
Time Resolution	1 ms
Field of View	2° x 2° and 3° x 3°
Effective Area	~ 28 cm <sup>2</sup> @ 6 keV



## Topics to be Discussed

- Compact Objects
- Ground and On-board Calibration
- Initial Results and Science
- Data Pipeline
- Background Modelling



First Light from XSPECT. Observed Spectrum of Cassiopeia A (Cas A)

## Who can apply?

Researchers in the 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> year of their Ph.D. and 2<sup>nd</sup> year MSc students with exposure to Astronomy

## Highlights

- Hands-on Data Analysis Sessions
- Data Analysis Projects on XSPECT
- Observations of Black Holes, Neutron Stars and Pulsars
- Project Presentations
- XSPECT Observation Proposal Submission

## Important Dates

- Registration Deadline:** 4<sup>th</sup> April
- Recommendation Deadline:** 8<sup>th</sup> April
- Confirmation of participation:** 11<sup>th</sup> April

Scan or Click QR to Register



Contact

xspectworkshop2025@gmail.com