

## Conference on Five years of AstroSat : Program

Date (1st Day - 19 January 2021)

### Opening Session

15:00 - 15:10	Opening Remarks	Mr Umamaheswaran Scientific Secretary, ISRO
15:10 - 15:25	AstroSat	Prof P C Agrawal
15:25 - 15:30	JAA Special Issue	Prof Annapurni Subramaniam
15:30 - 16:00	Overview of AstroSat	Dr S Seetha

### Session - I (16:00 - 17:30 ): AGNs

Chair: Prof K P Singh

Time	Speaker (Prof/Dr/Mr/Ms)	Title of the Talk
16:00 - 16:30	Gulab C. Dewangan (Invited)	Multi-wavelength study of AGNs with AstroSat
16:30 - 16:45	C. S. Stalin	Broad band spectral energy distribution of blazars observed with AstroSat
16:45 - 16:55	Main Pal	Spectral and Timing study of a NLS1 NGC 4748
16:55 - 17:05	Sanna Gulati	Study of misaligned active galaxies NGC 1275 and Pictor A using AstroSat and other observatories" is missed in the program
17:15 - 17:25	Sundar M N	Exploring the near-nuclear regions of AGNs using the multi-frequency data

Tea Break

### Session - II (17:40 - 19:00 ): X-ray Binaries (Black holes)

Chair: J S Yadav

Time	Speaker	Title of the Talk
17:40 - 18:10	Tomaso Belloni (Invited)	Spectral and Temporal studies of Blackhole X-ray binaries with the AstroSat
18:10 - 18:25	Ranjeev Mishra	Modelling energy dependent time-lag and r.m.s of X-ray binaries.
18:25 - 18:35	Sneha Prakash Mudambi	Modelling AstroSat broadband X-ray spectra of X-ray binaries for blackhole spin
18:35 - 18:45	Sudip Chakraborty	A spectral study of the black hole X-ray binary MAXI J1820+070 with AstroSat and NuSTAR
18:45 - 18:55	Sandeep K Rout	Multi-wavelength view of the galactic black-hole binary GRS 1716-249

Dinner Break

**Session - III (20:00 - 21:00 ): CVs and Active Stars**

Chair: Prof Dipankar Bhattacharya

Time	Speaker (Prof/Dr/Mr/Ms)	Title of the Talk
20:00 - 20:30	K. P. Singh (Invited)	Studies of Cataclysmic Variables with <i>AstroSat</i>
20:30 - 20:45	Phil Charles	Transient Supersoft X-ray Binaries in the Magellanic Clouds observed with ASTROSAT and SALT
20:45 - 20:55	Jeewan C Pandey	X-ray activity of three rapidly rotating active stars using AstroSat
20:55 - 21:05	Subhajeet Karmakar	AstroSat observations of Long-duration X-ray superflares on active M-dwarf binary EQ Peg

**Session - IV (21:00 - 22:00 ): Galactic Astronomy**

Chair: Prof Ram Sagar

Time	Speaker (Prof/Dr/Mr/Ms)	Title of the Talk
21:00 - 21:30	Snehalata Sahu (Invited)	Studies of star clusters with the AstroSat
21:30 - 21:40	Gajendra Pandey	Extended Emission Of CII 1335Å in R Coronae Borealis
21:40 - 21:50	Lalitha Sairam	Unraveling the nature of ultra-fast rotators with AstroSat
21:50 - 22:00	Sharmila Rani	Investigation of the horizontal branch stellar populations in globular cluster NGC 2298 with UVIT

Close for the Day

Day 2 - 20 January 2021

**Session - I (16:00 - 17:30): X-ray Binaries (Neutron star binaries)**

Chair: Prof Sudip Bhattacharyya

Time	Speaker (Prof/Dr/Mr/Ms)	Title of the Talk
16:00 - 16:30	Biswajit Paul (Invited)	Study of some Accretion Powered X-ray Pulsars with LAXPC
16:30 - 16:45	Kallol Mukherjee	Broadband spectral and timing studies of X-ray binaries with AstroSat
16:45 - 16:55	Vivek K. Agrawal	AstroSat view of Bright Neutron Star Low-mass X-ray binaries
16:55 - 17:05	Sachindra Naik	X-ray pulsations at the lowest luminosity of Be/X-ray binary pulsar EXO 2030+375 with AstroSat
17:05 - 17:15	Rahul Sharma	A broadband look of the Accreting Millisecond X-ray Pulsar SAX J1748.9-2021
17:15 - 17:25	Jayashree Roy	Study of 2019 outburst in the Be X-ray binary RX J0209.6-7427 with AstroSat a new ULX pulsar

Tea Break

**Session - II (17:40 - 19:00): X-ray Binaries (Neutron star/BH binaries)**

Chair: Dr Ramadevi M C

Time	Speaker (Prof/Dr/Mr/Ms)	Title of the Talk
17:40 - 18:10	Aru Beri (Invited)	Spectral and Temporal studies of NS LMXBs with the AstroSat
18:10 - 18:25	Andrea Sanna	Accreting Millisecond X-ray Pulsars : Observational Properties
18:25 - 18:35	Blessy Elizabeth Baby	Tracking the transitions of GRS 1915+105 with AstroSat : A 'class' apart
18:35 - 18:50	Mayukh Pahari	A global X-ray view of Cygnus X-3 with AstroSat: Findings so far
18:50 - 19:00	Jithesh V.	Broadband Spectro-timing Analysis of MAXI J1348-630 using AstroSat and NICER Observations

Dinner Break

**Session - III (20:00 - 21:00 ): Extragalactic Astronomy**

Chair: Prof Ritaban Chatterjee

<b>Time</b>	<b>Speaker</b>	<b>Title of the Talk</b>
20:00 - 20:30	Kanak Saha (Invited)	Deep field exploration by AstroSat
20:30 - 20:40	Krishna Mohana A	A long-term study of PKS 0208-512: resuming to its normal activity state after a prolonged stay at a very low-activity state
20:40 - 20:50	Abhijit Kayal	AstroSat/LAXPC hard X-ray observations of Compton-thick AGN
20:50 - 21:00	Pankaj Kushwaha	Candidate binary SMBH Blazar OJ 287 in very Different X-ray Spectral States with AstroSat

**Session - IV (21:00 - 22:00 ): Extragalactic Astronomy**

Chair: Prof Annapurni Subramaniam

<b>Time</b>	<b>Speaker</b>	<b>Title of the Talk</b>
21:00 - 21:30	Denis Leahy (Invited)	Local Galaxies with AstroSat/UVIT
21:30 - 21:40	Nilkanth Vagshette	Imaging and photometric studies of NGC 1316 using AstroSat/UVIT
21:40 - 21:50	Rubinur Khatun	UV Imaging of Dual Cores in Galaxy Mergers
21:50 - 22:00	Prasanta Kumar Nayak	Panchromatic study of the north-east Shell region of the SMC

Close for the Day

Date (3rd Day - 21 January 2021)

**Session - I (16:00 - 17:30):** Extragalactic Astronomy/ Binaries

Chair: Prof S N Tandon

Time	Speaker	Title of the Talk
16:00 - 16:30	Koshy George (Invited)	Astrosat view of spiral galaxies in transformation
16:30 - 16:45	Mousumi Das	Star formation in Under-dense Environments in Galaxies
16:45 - 16:55	Ananda Hota	Sharpest UV view of the exotic star formation in the fireballs of a Jellyfish Galaxy IC3418
16:55 - 17:05	Anshuman Borgohain	Extended Ultra-Violet Disk in Blue Compact Dwarfs
17:05 - 17:15	Swadesh Chand	AstroSat Observation of 2016 Outburst of H 1743-322: Spectral and Timing Results
17:15 - 17:25	Gayatri Raman	Timing and spectral studies of X-ray binaries using AstoSat

Tea Break

**Session - II (17:40 - 19:00):** Extragalactic Astronomy / Binaries

Chair: Prof Mousumi Das

Time	Speaker	Title of the Talk
17:40 - 18:10	N.Kameswara Rao (Invited)	Study of Planetary nebulae from UVIT on ASTROSAT - some new revelations from UV
18:10 - 18:25	Divakar Mayya	Ages of star-forming complexes detected in the UVIT images of the Cartwheel ring galaxy
18:25 - 18:35	Ankur Kushwaha	AstroSat view of Cygnus X-1: The softest nature in the lifetime of the blackhole
18:35 - 18:45	Bhuvana G R	Multi-mission view of extragalactic black hole binaries LMC X-1 and LMC X-3
18:45 - 18:55	Pankaj Jain	Evidence for QPO frequency as the relativistic dynamic frequency of a truncated accretion disk
18:55 - 19:05	Akash Garg	Modelling the X-ray variability seen in Blackhole systems using AstroSat Observations

Dinner Break

### Session - III (20:00 - 21:00 ): Extragalactic Astronomy

Chair: Prof Santosh Vadawale

Time	Speaker	Title of the Talk
20:00 - 20:30	Tanmoy Chattopadhyay (Invited)	X-ray polarimetry with the AstroSat
20:30 - 20:45	Alex Markowitz	Multiwavelength Campaign on Mkn 421 with AstroSat FACT and WEBT
20:45 - 21:00	Varun Bhalerao	Five years of fast transients with Astrosat

### Session - IV (21:00 - 22:00 ): GRBs

Chair: Prof Reshmi L

Time	Speaker	Title of the Talk
21:00 - 21:30	Shabnam Iyyani (Invited)	GRB studies with the AstroSat
21:30 - 21:40	Vidushi Sharma	Spectro-polarimetry study of GRB prompt emission

### Concluding Remarks

Chair: Dr seetha

Time	Speaker	Title of the Talk
21:40 - 22:00	Prof P C Agrawal	FUTURE PROSPECTS / CONCLUDING REMARKS