

# UVIT: 5 years of operation, 1 – 3 December 2020

## Scientific Programme

### December 1, 2020 (Tuesday)

9:30 – 10:05: Inaugural session

10:05 – 10:15: Break

#### Session 1: Chair: N. Kameswara Rao

10:15 – 10:45: Making of UVIT and its performance (S.N. Tandon)

10:45 – 11:15: UVIT: from observations to science ready images (Swarna K. Ghosh)

#### Session 2: Chair: K. Indulekha

11:15 – 11:45: The UVIT FUV Light Curve of Hercules X-1 (Denis Leahy)

11:45 – 12:15: UV and X-ray Observations of CVs with AstroSat (K. P. Singh)

12:15 – 12:35: Peculiarities in the horizontal branch stars of globular cluster NGC 1851:  
Discovery of a Blue straggler companion to an EHB star (Gaurav Singh)

12:35 – 12:55: The symbiotic nature of SU Lyn : Confirmation from UVIT Spectroscopy  
(Vipin Kumar)

12:55 – 14:00 Break

#### Session 3: Chair: Firoza Sutaria

14:00 - 14:30: UVIT view of star formation in extreme environments (Koshy George)

14:30 - 15:00: Understanding Star formation in the Extended UV disks of Spiral Galaxies  
(Mousumi Das)

15:00 – 15:20: Tracing young star-forming clumps in the nearby flocculent spiral galaxy  
NGC 7793 with UVIT (Chayan Mondal)

15:20 - 15:40: A UVIT and MUSE study of star formation and AGN activity in closely interacting  
galaxies (Jyoti Yadav)

15:40 – 15:50: Break

#### Session 4: Chair: Mousumi Das

15:50 – 16:20: The Sharpest Ultraviolet view of the star formation in an extreme environment  
of the nearest Jellyfish Galaxy IC 3418 (Ananda Hota)

16:20 – 16:40: The Ultraviolet Deep Imaging Survey of Galaxies in the Bootes Void I: catalog,  
color-magnitude relations and star-formation (Divya Pandey)

## December 2, 2020 (Wednesday)

### Session 5: Chair Shashikiran Ganesh

09:30 - 10:00: A Trigonometric Algorithm for World Coordinate Solutions (Joseph Postma)

10:00 – 10:30: Multi-wavelength Spectroscopy with AstroSat (Gulab Dewangan)

10:30 – 10:50: *Curvit*: An open-source Python package to generate light curves from UVIT data (Prajwel Joseph)

10:50 – 11:10: AstroSat's contribution to the understanding of blue-stragglers, blue-lurkers and binaries in Open clusters (Vikrant Jadhav)

11:10 – 11:20: Break

### Session 6: Chair K. P. Singh

11:20 - 11:50: Study of Galactic Structure Using UVIT/AstroSat Star Counts (Ananta Pradhan)

11:50 – 12:20: Searching for LyC leakers with UVIT (Anne Verhamme)

12:20 – 12:40: Extended Ultra Violet Disk in Blue Compact Dwarfs (Anshuman Borgohain)

12:40 - 13:00: Revealing Thermal Comptonization of accretion-disk photons in IC 4329A with AstroSat (Prakash Tripathi)

13:00 – 14:00 Break

### Session 7 Chair: Gulab Dewangan

14:00 – 14:30: An Astrosat study of UV and X-ray bright segments of the Cygnus SNR. (F. Sutaria)

14:30 – 14:50: UV study of the old open cluster NGC 188 using AstroSat (Sharmila Rani)

14:50 – 15:10 : Testing the nature of the ULX by AstroSat: UV-X-ray variability in ultra-luminous X-ray source Holmberg II X-1 (Olag Pratim Bordoloi)

15:10 – 15:30: A long term study of PKS 0208-512: resuming to its normal activity state after a prolonged stay at a very low-activity state, (Krishna Mohana A)

15:30 – 15:40: Break

### Session 8 Chair: Debbijoy Bhattacharya

15:40 – 16:10: Dorado and its member galaxies. A UVIT picture (Roberto Rampazzo)

16:10 – 16:30: Multiband studies on NGC 1275 and hotspot of Pictor A using AstroSat and other observatories (Sanna Gulati)

## December 3, 2020 (Thursday)

### Session 9: Chair: Ram Sagar

09:30 – 10:00: A First-look Astrosat/UVIT FUV Survey of the Small Magellanic Cloud  
(David Thilker)

10:00 – 10:30: UV Imaging of Dual Cores in Late-stage Galaxy Mergers (Rubinur Khatun)

10:30 - 10:50: M67: Discovering unknown systems with UVIT detection (Sindhu Pandey)

10:50 – 11:10: The First Extensive Exploration of UV-bright Stars in the Globular Cluster NGC 2808 (Deepthi S. Prabhu)

11:10 – 11:30: Break

### Session 10: Chair S. Seetha

11:30 – 12:00 The Carafe galaxy: A wet merger with a supermassive binary black hole precursor  
(Sunder M.N.)

12:00 – 12:20: UVIT study of UV bright stars in the globular cluster NGC 4147 (Ranjan Kumar)

12:20 – 12:40: Study of AGN feedback in the active galaxy NGC 1566 (B. Ananthamoorthy)

12:40 – 13:10: INSIST (Annapurni Subramaniam)

13:10 – 13:15: Meeting Summary and Concluding remarks (Chair, Organising committee)

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Please Note That The Timings Given In The Schedule Are In Indian Standard Time (IST, UTC + 5:30).

Conversion to some Time Zones are given below.

IST Is 4 Hours And 30 Minutes Ahead Of Central European Time (CET).

IST Is 5 Hours And 30 Minutes Ahead Of United Kingdom.

IST Is 2 Hours And 30 Minutes Behind China Time.

IST Is 5 Hours And 30 Minutes Behind Sydney Time.