

HCT@20 – Programme Details

Day 01 - 29 September 2020

09:30 – 10:20 **Inaugural Session [Chair: Annapurni Subramaniam]**

Welcome Address by the Director, IIA

Inauguration and Address by DST Secretary

Address by Dr. V.S. Ramamurthy, Former Secretary, DST

Address by Dr. Avinash C Pandey, Chairman, IIA Governing Council

Brief details of the Meeting by Organising Committee Chair

10:20 - 10:30 Break

Session I The Making of IAO [Chair: Jayant Murthy]

10:30 – 11:00	T.P. Prabhu	Making of Indian Astronomical Observatory: From site identification to Himalayan Chandra Telescope
11:00 - 11:20	R. Srinivasan	Technical Challenges

Session II Galactic star forming regions, YSOs and star cluster systems [Chair: H.P. Singh]

11:20 – 11:40	A. Subramaniam	HCT spectroscopic survey of Classical Be stars in Open clusters and Galactic field
11:40 – 12:00	D.K. Ojha	The Episodic Accretion in Young Low Mass Stars and NIR instrumentation with 2-meter HCT
12:00 – 12:20	Soumen Mondal	Understanding of Pre-main Sequence Stars in Galactic Star-Forming Regions
12:20 – 12:40	Jessy Jose	Star formation studies in outer Galaxy with HCT

Session III Poster Talks (12:40 - 13:00) [Chair: D.K. Sahu]

Piyali Saha	Spectroscopic Study of Young Stars towards NGC 7023
Partha Pratim Goswami	Spectroscopic study of Carbon-Enhanced Metal-Poor stars
Ananda Hota	Revisiting the exotic spiral-host radio galaxy Specu with HCT, Subaru, XMM-Newton & GMRT

13:00 – 14:00 Lunch Break

Session IV Evolved stars - I [Chair: Ranjan Gupta]

14:00 – 14:20	A. Arellano Ferro	17 years of Hanle Globular Clusters CCD Photometry
14:20 – 14:40	B.E. Reddy	Puzzle of Li enhancement in red giants.
14:40 – 15:00	Aruna Goswami	In search of chemical imprints of the first stars: clues from the HCT survey of CH/CEMP stars
15:00 – 15:20	Shejeelammal J.	Characterizing the companion AGBs: new results from HCT/HESP studies of barium stars

15:20 – 15:40 Break

Session V Evolved stars - II [Chair: Gajendra Pandey]

15:40 – 16:00	T. Sivarani	Stellar archeology with HCT
16:00 – 16:20	Avarjit Bandopadhyay	Origin and abundances of r-process rich stars in the Galaxy
16:20 – 16:40	Susmitha Rani	Milky Way halo through the eyes of HCT
16:40 – 17:00	Anirban Bhowmick	Exploring the evolutionary origins of low-mass hydrogen-deficient stars using HCT

Day 02 - 30 September 2020

Session I Solar System objects and exoplanets [Chair: Brijesh Kumar]

09:30 – 09:50	Karen Meech	Formation of habitable world with small solar system body
09:50 – 10:10	Shasikiran Ganesh	Spectroscopy of comets from the HCT
10:10 – 10:30	Sujan Sen Gupta	HCT Eyes Brown Dwarfs and Exoplanets
10:30 – 10:50	Parijat Thakur	Probing Possible Origin of Transit Timing Variations of Extra-solar Planets through Follow-up Observations of their Transits using 2-m HCT Telescope

10:50 – 11:10 Break

Session II **Time Domain Astronomy - I [Chair: Ram Sagar]**

11:10 – 11:30	Kuntal Misra	Assessment of supernova explosion parameters using optical observations
11:30 – 11:50	N.K. Chakradhari	Observational studies of thermonuclear supernovae using HCT
11:50 – 12:10	Avinash Singh	Follow-up of Supernovae from Himalayan Chandra Telescope
12:10 – 12:30	Firoza Sutaria	A postmortem study of the environments and evolution of massive stars

Session III **Poster Talks (12:30 - 13:00) [Chair: Aruna Goswami]**

Vineet Kumar	Exploring Transit Timing Variation of Extra-solar Planet TrES-5b through follow-up observations using the 2-m HCT
Anirban Dutta	SN 2017hpa: A Carbon-rich High Velocity Gradient Supernova
Anjasha Gangopadhyay	Probing the progenitor scenario of stripped envelope supernovae using HCT
Raya Dastidar	SN 2016B: an intermediate type II Supernova

13:00 – 14:00 **Lunch Break**

Session IV **Time Domain Astronomy - II [Chair: Ashok Pati]**

14:00 – 14:20	M. Pavana	To understand novae, through the HCT
14:20 – 14:40	S.B. Pandey	2.0m HCT: Afterglow observations of GRBs and key findings
14:40 – 15:00	Varun Balerao	Studying rapidly evolving transients
15:00 – 15:20	Amit Mondal	REMAP: REverberation Mapping of Active galactic nuclei Program at HCT

15:20 – 15:40 **Break**

Session V **Extragalactic sources and Future prospects [Chair: T. P. Prabhu]**

15:40 – 16:00	Mousumi Das	Studying Low Luminosity Galaxies with the HCT
16:00 – 16:20	S. Ramya	Insights into the star formation history of Dwarf galaxies: clues to their evolution.
16:20 - 16:35	B.C. Bhatt	Earth Science and Atmospheric studies at IAO-Leh/Hanle-Ladakh
16:35 - 16:50	Angchuk Dorje	Hanle Dark Sky Sanctuary
16:50 – 17:10	G.C. Anupama	Future prospects at IAO

17:10 – 17:15 **Closing Remarks by Organizing Committee Chair**