

**DAY-1: September 23, 2019**

9:00-9:30	<b>Registration at Evershed Hall</b>	
9:30-9:45	Inaugural Talk: YAM-2019	Priya Goyal
9:45-10:00	Introduction to Kodaikanal Solar Observatory	Prof. Dipankar Banerjee
<b>Sun and Planetary Science</b>		
<b>10:00-11:00</b>	<b>Invited Talk: New challenges in Solar Physics Research</b>	<b>Prof. Nandita Srivastva</b>
11:00-11:30	<b>Tea/Coffee Break</b>	
11:30-11:50	Can CMEs be considered as coherent, macroscopic structures?	Debesh Bhattacharjee
11:50-12:10	Impulsive-eruptive homologous M-class flares originated from a double-decker flux rope configuration of mini-sigmoid in the $\delta$ -sunspot region NOAA 12673	Prabir Kumar Mitra
12:10-12:30	3-D evolution of fast and slow Coronal Mass Ejections in solar cycle 23 and 24 and the effect of their source regions: A preparatory study for the ADITYA L1 mission.	Satabdwa Majumdar
<b>12:30-14:00</b>	<b>LUNCH BREAK</b>	
14:00-14:20	Composition Derivation of Lunar Surface Using C1XS, M3 and Kaguya-GRS datasets	Nabamita Chaudhuri
<b>Stellar Astrophysics</b>		
14:20-14:40	Probing star-planet interactions in the radio and UV domain	Mayank Narang
14:40-15:00	Modelling and Characterization of Exoplanet Atmosphere	Soumya Sengupta
15:00-15:20	X-ray intraday variability of the TeV blazar Mrk 421 with Chandra	Ashwani Pandey
15:20-16:20	<b>TEA+POSTER</b>	
16:20-16:40	Progenitor and environment of complete sample of Ultra-long Gamma Rays Bursts	Rahul Gupta
16:40-17:40	LIGO-India Gravitational Wave Talk	Dr. Shasvath Kapadia

**DAY-2: September 24, 2019**

9:00-10:00	<b>Invited Talk: Galactic and Extragalactic Astrophysics</b>	<b>Prof. Mousumi Das</b>
<b>Galactic and Interstellar Medium</b>		
10:00-10:20	Probing Transit Timing Variation and its Possible Causes in the Hot-Jupiter System TrES-3	Vineet Kumar Mannaday
10:20-10:40	Study of metallicity distribution and the Galactic structure through open star clusters	Jayanand Maurya
10:40-11:00	Extinction Map of M31 Using Classical Cepheids Variables	Jyoti Prakash
11:00-11:10	<b>Group Photo</b>	
11:10-11:30	<b>Tea/Coffee Break</b>	
<b>11:30-12:30</b>	<b>Observatory Visit</b>	
<b>12:30-14:00</b>	<b>LUNCH BREAK</b>	
14:00-14:20	Linear Polarization Towards Anti-galactic Centre direction: The Case of NGC 1817.	Sadhana Singh
<b>Extra-galactic and Inter-galactic Medium</b>		
14:20-14:40	FRBs and their distribution	Nidhi Saini
14:40-15:00	Study of Magnetic Instability & Variable Nature of Relativistic Jets	Sriyasriti Acharya
15:00-15:20	Effect of Flyby Interaction on Dark Matter Halo of Disk Galaxy	Ankit Kumar
15:20-16:20	<b>TEA+POSTER</b>	
16:20-16:40	Studies of Central Intensity Ratio in Seyfert galaxies	Baheerja C
16:40-17:00	Ultra-Luminous X-ray sources - Black holes or Neutron Stars? M33 X-8: A case study	Tanuman Ghosh
17:00-17:20	Investigating the behavior of Super luminous supernovae (SLSNe-I) and their connection with long gamma ray bursts (GRBs).	Amit Kumar
17:20 onwards	<b>Certificate Distribution</b>	

**DAY-3: September 25, 2019: FULL DAY EXCURSION**

**DAY-4: September 26, 2019**

9:00-10:00	Invited Talk: PROBING THE UNIVERSE USING ANCIENT LIGHT	Prof. T.R. Seshadri
<b>General Relativity and Gravitational Waves</b>		
10:00-10:20	Testing the nature of black holes using shadow observation of M87*	Rahul Kumar
10:20:10:40	Continuous gravitational wave from compact objects	Surajit Kalita
10:40-11:00	Super null-streams to probe non-GR modes of polarization with a network of gravitational wave detectors	Koustav Chandra
11:00-11:30	<b>Tea/Coffee Break</b>	
11:30-11:50	Optical observations of carbon rich supernova SN 2017hpa	Nirban Bose
<b>Cosmology</b>		
11:50-12:10	Gaussianity and statistical isotropy of galactic foreground emissions from Planck and Haslam maps	Fazlu Rahman
12:10-12:30	Cosmic Web Anisotropy is the primary indicator of Assembly Bias	Sujatha
12:30-14:00	<b>LUNCH BREAK</b>	
14:00-14:20	Impact of inhomogeneous CMB heating of gas on the HI 21-cm signal during dark ages.	Sioree Ansar
14:20-14:40	Exploring bulk viscous matter dominated universe - Causal approach	Jerin Mohan N D
14:40-15:00	Primordial Black Hole from Inflationary Perturbations	Nilanjandev Bhaumik
15:00-15:20	Constraining Dark energy in $f(R)$ gravity model by 21cm signal and Lyman-alpha forest as a probe.	Chandrachud Bijay Vaswar Dash
15:20:16:20	<b>TEA+POSTER</b>	
16:20-17:20	PROPOSAL WRITING	Ekta Sharma

**BANQUET DINNER**  
**19:00-21:00**

**DAY-5: September 27, 2019**

<b>Astronomical Instrumentation</b>		
09:00-09:20	Narrowband solar X-ray imager	Panini Singam
09:20:09:40	Development of radio antenna array and receiver system for observations of Pulsars at Low Radio Frequencies.	Kshitij Bane
09:40-10:00	Development of Solar Ultraviolet Imaging Telescope (SUIT)' on-board intelligence.	SV Manoj Varma
10:00-10:30	Tea/Coffee Break	
<b>10:30-11:30</b>	<b>Invited Talk: Eyes and Brain of Astronomy: Trends in Astronomical Instrumentation</b>	<b>Dr. K. Sankarsubramanian</b>
<b>High Energy Astrophysics</b>		
11:30-11:50	Transport of angular momentum in Keplerian accretion discs from hydrodynamics point of view.	Subham Ghosh
11:50-12:10	Ultra-luminous X-ray sources as magnetically powered sub-Eddington advective accretion flows around stellar mass black holes	Tushar Mondal
12:10-12:30	Study of oscillatory nature of local accretion rate in the accretion disk of GRS 1915+105 using AstroSat	Divya Rawat
<b>12:30-14:00</b>	<b>LUNCH BREAK</b>	
14:00-14:20	Photometric and Spectroscopic Study of SN2015ap	Amar Aryan
14:20-14:40	CEMP-s/r stars and intermediate neutron-capture process	Partha Pratim Goswami
14:40-15:00	Long term X-ray investigation of the WN+O binary WR 25	Bharti Arora
15:00-16:00	<b>TEA+POSTER</b>	
16:00:17:00	CYTHON Session	
17:00-17:30	<b>Panel Discussion with IUCAA</b>	
17:30-17:45	Concluding remarks	Chair/Coordinator

## List of Posters

Sno	Name	Field of Research	Title of Presentation
1	Lakshitha Nama Mahesh	Sun and Planetary Science	Visibility of Solar Filaments in the Chromospheric Ca II K and Ha lines.
2	Prateek Sharma	General Relativity and Gravitational Waves	Study of Bending Angle of Light Around a Rotating Black Hole with Quintessence
3	Sandeep Kataria	Galactic Physics and ISM	Can bars erode cuspy halos ?
4	EKTA SHARMA	Galactic Physics and ISM	Molecular filament formation and filament-hub interaction: LDN 1172/1174 dark nebula
5	Divita Saraogi	Astronomical Instrumentation	Daksha: On alert for high energy transients
6	Siddharth Maharana	Astronomical Instrumentation	Wide Area Linear Optical Polarimeter
7	Sayan Kundu	High Energy Astrophysics	Numerical Implementation of Stochastic Acceleration in Turbulent Astrophysical Plasma
8	VIPIN DAS V	High Energy Astrophysics	Information theoretic studies on the relationship between sunspot activity and cosmic ray intensity
9	Debasish Mondal	Stellar Astrophysics	A new Initial mass function for the triple star forming systems
10	Athira Unni	Stellar Astrophysics	Possibility of Transit spectroscopy using 2 meter telescope
11	Deepthi S Prabhu	Stellar Astrophysics	Exploring the enigmatic hot stellar population of the massive globular cluster NGC 2808 using UVIT
12	VARNANA M KUMAR	Stellar Astrophysics	Inferring Volcanic Activity in Potentially Habitable Extrasolar Planets
13	Ujjwal Krishnan	Extra-galactic Astrophysics and IGM	Understanding the star formation in low and high galaxy environments.
14	Priyanka jalan	Extra-galactic Astrophysics and IGM	Discovering lensed quasars using the proximity effect