

Schedule

Monday (11/09/2017)

(All talks, except the invited talks will be of 15+5 min, Venue: BHASKARA-III. Breakfast, Lunch and Dinner will be arranged in CHITTARANJAN)

08.00-9.15 BREAKFAST

Session-I

09.30-10.00 Welcome

10.00-11.00 INVITED TALK by **Prof. Ajit K. Kembhavi (IUCAA)** on "From Mega-Projects to Deep Learning - Opportunities and Challenges for Young Astronomers"

11.00-11.30 Tea break

Session-II

11.30-11.50 Evidence of AGN feedback in galaxy clusters via X-ray cavities,
Satish Sonkamble

11.50-12.10 Transverse and Longitudinal proximity effect,
Priyanka Jalan

12.10-12.30 Effect of AGN feedback on the X-ray surface brightness profile of simulated galaxy groups, **Rudrani Kar Chowdhuri**

12.30-12.50 SAGAN: Search & Analysis of GRGs with Associated Nuclei,
Pratik Dabhade

12.50-13.10 **Distribution of T-Shirt**

13.10-14.30 Lunch Break

Session-III

14.30-14.50 Nucleosynthesis in outflows from accretion disk of Type II collapsars
Sudeb Ranjan Datta

14.50-15.10 Magnetised advective accretion flow , supporting "magnetically arrested disk" (MAD) model, **Tushar Mondal**

15.10-15.30 A numerical study of astrophysical plasma in MHD limit
Prasanta Bera

15.30-16.10 **Poster Lightning Talk** (One minute per participant)

16.10-16.40 Tea Break

Session-IV

16.40-17.00 Optical Polarimetric Study Of NGC 7023,
Piyali Saha

17.00-17.20 First photometric analysis of six neglected contact binaries from ASAS,
Raghu Prasad M.

17.20-17.40 The Formation And Chemical Abundance Evolution Of Milky Way Galaxy,
Tejpreet Kaur

17.40-18.00 Optical Studies Of A Stripped Envelope Supernova : Sn 2015As,
Anjasha Gangopadhyay

Session-V

18.30-20.00 TUTORIAL (**OPTIONAL**)

An Introductory Tutorial to Cython,
D.V.S. Phanindra

20.00-21.30 Dinner

Tuesday (12/09/2017)

08.00-9.15 Breakfast

Session-I

- 09.15-10.15 INVITED TALK by **Prof. Dipankar Bhattacharya (IUCAA)** on "High energy physics and observations using ASTROSAT".
- 10.20-10.40 Emergence of curved sonic manifold for isothermal accretion in blackhole metric,
Md. Arif Shaikh
- 10.40-11.00 Yukawa type corrections to Newtonian potential and its implications at different scales,
Mr. Rohin Kumar Yeluripati
- 11.00-11.30 Tea Break

Session-II

- 11.30-11.50 Halo occupation distribution model of HI galaxies,
Niladri Paul
- 11.50-12.10 Motion of Massive Particles in Rindler Space and the Problem of Fall at the Centre,
Sanchita Das
- 12.10-12.30 Cyclotron Resonance Scattering Features (CRSFs) in high mass X-ray binaries,
Suman Bala
- 12.30-12.50 Spectral analysis of AX J1749.1-2733 using RXTE,
Angel Priyana Noel
- 12.50-13.10 Spectroscopic study of the dipping behaviour of MXB 1658-298 with XMM-Newton,
Rahul Sharma
- 13.10-14.30 Lunch Break

Session-III

- 14.30-14.50 Development and Deployment Scheme of IFU for DOTIFS
Sabyasachi Chattopadhyay
- 14.50-15.10 Fast Polarimeters Based on Liquid Crystals for Solar Studies
Phanindra DVS
- 15.10-15.30 *To Be Announced Later*
Prasanna Deshmukh
- 15.30-16.10 **Poster Presentation**
- 16.10-16.40 Tea Break

Session-IV

- 16.40-17.00 Identifying 'Galaxy Groups' As A Unique Population In The Structural Hierarchy Of The Universe, **Reju Sam John**
- 17.00-17.20 Probing The Distance Duality Relation Using A Non-Parametric Regression Method, **Akshay Rana**
- 17.20-17.40 Forming Galaxy Clusters Are The Major Source Of Cosmic Neutrinos And Ultra High Energy Particles, **Gajanan Harale**

Session-V

- 18.30-20.00 TUTORIAL (**OPTIONAL**)
Statistical Learning Techniques,
Vaibhav Pant
- 20.00-21.30 Dinner

Wednesday (13/09/2017)

08.00-9.15 Breakfast

Session-I

09.15-10.15 INVITED TALK by **Prof Jayaram N Chengalur** on "Radio astronomy and the GMRT".

10.20-10.40 PASIPHAE Survey- 3D Dust Cloud Mapping using Stellar Polarimetry
Siddharth Maharana

10.40-11.00 Signatures of Extra Dimensions from Gravitational Waves,
Kabir Chakravarti

11.00-12.00 Tea Break + Poster Presentation

Session-II

12.00-12.20 A new wavelet based clustering algorithm for compact binaries search in GW window,
Ms. Gayathri V

12.20-12.40 Electromagnetic follow-up of gravitational wave sources,
Javed Rana

12.40-13.00 Hierarchical search for GW from coalescing compact binaries,
Bhooshan Gadre

13.00-14.30 Lunch Break

Session-III

14.30-14.50 Connection of Different Sunspot Oscillation and Wave modes as Observed by
AIA/SDO, **Aishawnnya Sharma**

14.50-15.10 Mass Spectrometric Studies of the Response of Mars to an Interplanetary Coronal Mass
Ejection, **Krishnaprasad C**

15.10-15.30 Image processing techniques to enhance features in solar images,
Vaibhav Pant

15.30-15.50 Automated detection of Coronal Mass Ejections on-board Variable Emission line
Coronagraph/ADITYA-1, **Ritesh Patel**

15.50-16.10 Particle acceleration in coronal heating,
Tomin James

16.10-16.40 Tea Break

Session-IV

16.40-17.00 On the Interdependence of morphology, SFR, and environment,
Omkar Bait

17.00-17.20 HI photoionization rate and escape fraction at $z < 0.5$,
Prakash Gaikwad

17.20-17.40 Age Bimodality In Pseudo Bulges Of S0 Galaxies,
Preetish Mishra

17.40-18.00 Spectro-photometric study of star forming early type galaxies,
Swati Deshmukh

18.30-20.00 CULTURAL PROGRAM (Chandrasekhar Auditorium)

20.00-21.30 Banquet Dinner

Thursday (14/09/2017)

08.00-9.15 Breakfast

Session-I

09.15-09.35 Processing of icy bodies surface in solar system,

Rahul Kumar Kushwaha

09.35-09.55 Kirkwood Gaps In The Main Asteroid Belt,

Soumyadeep Chatterjee

10.00-11.00 INVITED TALK by **Prof S Sridhar** on "Stellar Dynamics and Thermodynamics".

11.00-11.30 Tea Break

Session-II

11.30-11.50 Ultra-light dark matter from alpha-attractors,

Swagat S. Mishra

11.50-12.10 Constraining stochastic gravitational wave background from weak lensing of CMB B-modes,

Shabbir Shaikh

12.10-12.30 Large-amplitude X-ray variability and accretion disc/corona connection in the AGN

PG1404+226, **Labani Mallick**

12.30-12.50 Imprint of energy dependent escape in spectral curvatures of Blazars,

Pranjupriya Goswami

12.50-13.10 SARASWATI : An Extremely Massive ~200 Megaparsec Scale Supercluster,

Shishir Sankhayan

13.10-14.30 Lunch Break

Session-III

14.30-14.50 The group environment in the Coma supercluster,

Ruchika Seth

14.50-15.10 How well gaussian approximation works in 21cm foreground Simulation,

Sandeep Rana

15.10-15.30 An Information Theoretical Approach Of Testing Homogeneity In Galaxy Surveys,

Suman Sarkar

15.30-15.50 Phantom brane: Cosmological perturbations and Constraining parameters using distance measurements, **Satadru Bag**

15.50-16.10 Testing GR using GW signals from the inspiral, merger and ringdown of binary black hole mergers, **Abhirup Ghosh**

16.10-16.40 Tea Break

Session-IV

16.40-18.00 Feedback from Participants & Discussions

Friday (15/09/2017)

IUCAA SciPoP Show
&
IGO Trip