

**Scientific Programme**  
Neighborhood Astronomy Meeting  
Indian Institute of Astrophysics, Bangalore

**April 05, 2018**

09:30-10:00 Registration

10:00-10:10 am

Welcome Address by Dean, IIA

**Session I : Chair – Rajaram Nityananda**

10:10-10:30

Jayant Murthy

A Mysterious Glow at the Galactic Poles

10:30-10:50

Vikram Rana

Ultra-luminous X-ray Pulsars : A New Class of ULXs

10:50-11:10

Blesson Mathew

To Be or not to Be: decoding disk formation and disruption mechanisms in Classical Be stars.

11:10-11:40 am

Tea/Coffee Break

**Session II : Chair- Vinod Krishan**

11:40-12:00

Arun Thampan

Neutron Stars: Cosmic Laboratories

12:00-12:20

Rajeev Kumar Jain

Cosmological inflation and primordial magnetic fields

12:20-12:40

Prabu Thiagaraj

Accelerated Pulsar Search with SKA

12:40-13:00

Samrat Sen

Magnetohydrostatic equilibria of flux tubes

13:00-14:30  
Lunch Break

**Session III : Chair- Anil Agarwal**

14:30-14:50  
Anirban Bhowmick  
Understanding the enigmatic cool hydrogen-deficient stars.

14:50-15:10  
Mohana Krishna  
Lenslet array spectroscopy - A novel snapshot instrument for solar observation

15:10-15:30  
Tushar Mondal  
Magnetized advective accretion flows around black holes

15:30-16:00  
Tea/Coffee Break

**Session IV : Chair- N. Kameshwar Rao**

16:00-16:20  
K. Nagaraju  
Spectropolarimetric Observations of Sun from Kodaikanal Observatory

16:20-16:40  
Sayan Biswas  
A study of possible density profiles of hydrogen gas of Milky Way Galaxy consistent with observed cosmic ray spectra

16:40-17:00  
Bari Maqbool  
X-ray irradiated accretion discs in low mass X-ray binaries

17:00-17:20  
Susmita Chakravorty  
MHD disk winds around Black Hole X-ray Binaries: Can GenNext X-ray satellites uniquely identify them?

17:20-18:00  
Poster Viewing

18:00-19:30  
Cultural Programme

19:30-  
Dinner

**April 06, 2018**

**Session V : Chair- P. Ajith**

10:00-10:20

K. Haris

Identifying strongly lensed binary black-hole mergers from gravitational wave observations

10:20-10:40

Sudhanshu Barway

Early-type galaxies: evidence for diverse star formation histories

10:40-11:00

Ashish Raj

Study of classical novae

11:00-11:30

Tea/Coffee Break

**Session VI : Chair- Arnab Rai Choudhuri**

11:30-11:50

Kumar Raviranjana

Scintillation based search for off-pulse radio emission from pulsars

11:50-12:10

Anshukumari

Simultaneous multi wavelength observations of coronal mass ejections close to the Sun with ground and spacebased instruments

12:10-12:30

Ajit Kumar Mehta

Binary black hole spectroscopy: A “no-hair” theorem test for binary black holes

12:30-14:00

Lunch Break

**Session VII: Chair- Vikram Rana**

14:00-14:20

Prasun Dhang

3D global ideal MHD simulations of accreting tori: the effects of azimuthal extent and dynamo

14:20-14:40

Analytically Modelling 21-cm Signal from EoR

Janakee Raste

14:40-15:00

Vivek Kumar Agrawal

XSPECT on-board XPOSAT: Science Objectives and Instrument Capabilities

15:00-15-20

Asif Iqbal Ahangar

Non-gravitational feedback in the intra-cluster medium

15:20-15:40

Subhamoy Chatterjee

Detection and Long-term Study of Filaments using H-alpha Spectroheliograms

Obtained from Kodaikanal Solar Observatory

15:40 –16:00

Concluding Remarks

16:00-17:30

Poster Viewing

Tea/Coffee