

34th Annual Meeting of Astronomical Society of India

10-13 May 2016, University of Kashmir, Srinagar

Monday, May 9, 2016	
9:30 am to 4:30 pm	Workshop1: Tools and Trends in High Resolution Optical Spectroscopy (Biotechnology Auditorium)
	Workshop2: Big Data in Astronomy (EMMRC Auditorium)
4.40 pm - 7.22 pm	Transit of Mercury through Telescopes (Convocation Complex Lawns)
7.00 pm to 9.00 pm	Welcome Dinner and Registration(Shamiyana near Physics Department)
Tuesday, May 10, 2016	
9.00 am to 9:30 am	Registration(Shamiyana near Physics Department) & Welcome Tea
9:45 am to 10:30 am	Inauguration and welcome speeches (Convocation Complex)
10:30 am to 11:00 am	Tea Break
11:00 am to 12:00 pm	Presidential Address: Ajit Kembhavi (Convocation Complex)
12:00 pm to 12:30 pm	VainuBappu Award Lecture: N. Madhusudan (Convocation Complex)
12:30 pm to 1:00 pm	Special Lecture on GW detection: Sukanta Bose (Convocation Complex)
1:00 pm to 2:00 pm	Lunch
2:00 pm to 3:00 pm	Public Lecture : Kiran Kumar, Chair, ISRO
3:30 pm to 4:00 pm	Tea break
4:00 pm to 5:30 pm	Parallel sessions: Instrumentations 1: (Biotechnology Auditorium) Stars & Galaxy 1: (EMMRC Auditorium) Extragalactic astronomy 1: (Ibn Khaldoon Auditorium)
6:00 pm to 7:30 pm	Panel discussion on 'Opportunities in Astronomy' (EMMRC Auditorium)
7:30 pm to 9:00 pm	Dinner & Departure to Hotels
Wednesday, May 11, 2016	
	Plenary Session: ASTROSAT-First Science Results [Chairperson: Swarna Ghosh]
9:30 am to 9:40 am	S. Seetha: Introduction to ASTROSAT
9:40 am to 10:02 am	S.N. Tandon: Calibrations of UVIT and the first scientific results
10:02 am to 10:24 am	K. P. Singh: First Scientific Results from observations with the Soft X-ray imaging Telescope onboard ASTROSAT

10:24 am to 10:46 am	M.C. Ramadevi: SSM on ASTROSAT: First Results		
10:46 am to 11:08 am	J.S. Yadav: Large Area X-ray Proportional Counter (LAXPC) instrument onboard ASTROSAT		
11:08 am to 11:30 am	S. Vadawale: Initial results from ASTROSAT CZTI		
11:30 am to 12:00 pm	Tea Break		
12:00 pm to 1:30 pm	Parallel Sessions:		
	Extragalactic Astronomy 2: (IbnKhaldoon Auditorium)	Sun & Solar System 1: (Biotechnology Auditorium)	Special Session on Detection Gravitational Wave (EMMRC Auditorium)
1:30 pm to 2:30 pm	Lunch		
2:30 pm to 4:00 pm	Parallel Sessions:		
	GR & Cosmology 1: Invited talk: Changbom Park (IbnKhaldoon Auditorium)	Stars & Galaxy 2 (EMMRC Auditorium)	
4:00 pm to 5:30 pm	Tea break & Poster viewing		
6 pm	Banquet Dinner (Shamiyana near Physics Department)		
Thursday, May 12, 2016			
	Plenary Session: Dynamical Systems [Chairperson: K. Subramanian] (Convocation Complex)		
9.30 am to 10.00 am	S. Sridhar: The disruption of multiplanet systems through resonance with a binary orbit		
10.00 am to 10.30 am	J.S. Bagla: Gravitational clustering in an expanding universe		
10:30 am to 11:00 am	Farooq Ahmed: Gravitational Clustering of Galaxies: Derivation of distribution function using statistical mechanics of cosmology many-body problem.		
11:00 am to 11:30 am	Tea Break & Poster viewing		
11:30 am to 1:00 pm	Parallel Sessions:		
	Extragalactic Astronomy 3: Invited talk: R. Srianand (IbnKhaldoon Auditorium)	Instrumentation 2: Invited Talks: SunetraGiridhar, MaheshwarGopinathan (Biotechnology Auditorium)	
1:00 pm to 2:30 pm	Lunch & Poster Viewing		
2:30 pm to 4:00 pm	Parallel Sessions:		
	GR & Cosmology 2: Invited talk: K. Subramanian (IbnKhaldoon Auditorium)	Stars & Galaxy 3: Invited talk: Sharanya Sur (EMMRC Auditorium)	Sun & Solar System 2: Invited talk: PiyaliChatterjee (Biotechnology Auditorium)
4:00 pm to 5:00 pm	Tea Break & Poster Viewing		
5.00 pm to 6.30 pm	General Body Meeting (EMMRC Auditorium)		

Friday, May 13, 2016

Plenary Session: Multi-Messenger Astronomy [Chairperson: Ram Sagar]
(Convocation Complex)

9:30 am to 10.00 am

Varun Bhalerao: Einstein's messengers: Gravitational wave sources and their electromagnetic counterparts

10:00 am to 10:30 am

Amol Dighe: Pauli's messengers: Looking at the sky in neutrinos

10:30 am -11:00 am

Kuntal Misra: Optical Transients

11:00 am to 11:30 am

Tea break

11:30 am to 1:30 pm

Thesis Presentation
(EMMRC Auditorium)

1.30 pm to 2:30 pm

Lunch and end of conference

ASI-2016 Parallel Sessions: Tuesday,10 May, 2016

Tuesday, 10 May, 2016		
Time: 16:00-17:30		
Venue: EMMRC Auditorium		
Stars, The Milky Way Galaxy and its Neighbours-I [Chairperson: Annapurni Subramaniam]		
Time	Speaker	Title
16:00–16.15	Tapas Baug	Galactic bubble N37 and surrounding star formation activity
16:15–16.30	Lokesh Kumar Dewangan	A multi-scale, multi-wavelength study of massive star-forming region W42
16:30–16.45	Jessy Jose	Effect of stellar feedback on subsequent star formation activity
16:45-17:00	Kaushar Vaidya	Optical Spectroscopy of X-ray Selected Young Stars in the Carina Nebula
17:00-17:15	Aruna Goswami	Carbon-Enhanced Metal-Poor stars: evolution, nucleosynthesis, observations and the impact on cosmochemistry
17:15-17:30	Susmitha Rani Antony	Oxygen abundances in carbon enhance metal poor (CEMP) stars: Comparison between CO and [OI] lines

Tuesday,10 May, 2016		
Time:16:00-17:30		
Venue: Ibn Khaldoun Auditorium		
Extragalactic Astronomy-I [Chairperson: Somak Raychaudhury]		
Time	Speaker	Title
16:00–16.15	Soumavo Ghosh	Effect of Dark Matter halo on spiral structures of different scales
16:15–16.30	Suwendu Rakshit	First spatially resolved black hole mass of quasar 3C273
16:30–16.45	Kartick C Sarkar	Multi-wavelength emission from galactic winds and Fermi Bubbles
16:45-17:00	Vikas Chand	Spectral study of gamma ray bursts using CZTI of ASTROSAT
17:00-17:15	Indranil Chattopadhyay	Simulation of accretion disc and multiple shocks
17:15-17:30	Rupak Roy	Luminous Supernovae : Implication of shock interaction on the observed properties

Tuesday, 10 May, 2016

Time:16:00-17:30

Venue: Biotechnology Auditorium

Instrumentation and Techniques-I[Chairperson:Eswar Reddy]

Time	Speaker	Title
16:00 – 16:20	Shiang-Yu Wang	Optical/IR Instrumentation Projects in Taiwan
16:20 – 16:35	Arun Kumar Naidu	PONDER - A Real time software backend for pulsar and IPS observations at the Ooty Radio Telescope
16:35 – 16:50	Saurabh Singh	On the Detection of Global 21-cm signal from Reionization using Interferometers
16:50 – 17:20	Maheswar Gopinathan	3.6m Devasthal Optical Telescope (DOT): Commissioning and early science

ASI-2016 Parallel Sessions: Wednesday, 11 May, 2016

Wednesday, 11 May, 2016 Time:12:00-13:30		
Venue: Biotechnology Auditorium		
Sun and Solar System-I[Chairperson:Dipankar Banerjee]		
Time	Speaker	Title
12:00–12:15	K. Chenna Reddy	Strengths and limitations of the Gadanki MST radar for meteor observation
12:15 – 12:30	Gurpreet Kaur	Modelling the thermal evolution and differentiation of interior of Mars and Mercury
12:30 – 12:45	Ayesha Maryam Mazarbhuiya	Imaging polarimetric study on Comet 32P/Comas-Sola
12:45 – 13:00	Rohit	Characterisation of non-thermal solar emissions at low radio frequencies.
13:00 – 13:15	Kumar Venkataramani	Study of Molecular Gas Emissions from Cometary Coma
13:15 – 13:30	Avyarthana Ghosh	Fan Loops Observed by IRIS, EIS and AIA

Wednesday, 11 May, 2016 Time:12:00-13:30		
Venue: Ibn Khaldoon Auditorium		
Extragalactic Astronomy-II[Chairperson:Suchetana Chatterjee]		
Time	Speaker	Title
12:00–12:15	Lijo Thomas George	Low Frequency Study of Merging Galaxy Clusters using the MWA
12:15–12:30	Deovrat Prasad	Role of cooling and AGN jets in the evolution of cool-core galaxy clusters.
12:30-12:45	Pradeep Chandra	VHE gamma-ray observations of Markarian 421 and B20806+35 using TACTIC during 2015-16.
12:45 – 13:00	Hum Chand	Weak emission line radio-quiete QSOs using ESO data
13:00 – 13:15	Rabinur Khatun	Radio Observations of Candidate Dual Active Galactic Nuclei in Double Peaked Emission Line Galaxies
13:15 – 13:30	Zahir Ahmad Shah	Multi-Wavelength Study of 3C454 During August 2015 Flaring

Wednesday, 11 May, 2016 Time: 12:00-13:30		
Venue: EMMRC Auditorium		
Gravitational Wave detection [Chairperson: Sukanta Bose]		
Time	Speaker	Title
12:00 – 12:30	ArchanaPai	Strategy and algorithms for detection of GW150914
12:30–13:00	K.G. Arun	Astrophysical implications of GW150914
13:00-13:30	P. Ajith	Waveforms for gravitational wave search

Wednesday, 11 May, 2016 Time: 14:30-16:00		
Venue: Ibn Khaldoon Auditorium		
General Relativity and Cosmology-I [Chairperson: N. Panchapakshan]		
Time	Speaker	Title
14:30 – 15:00	Changbom Park (I)	Cosmological Constraints from the Redshift Dependence of Galaxy Clustering Anisotropy
15:00–15.15	Abhirup Ghosh	Testing general relativity using golden black-hole binaries
15:15–15.30	Nisha Rani	Parametric and nonparametric constraints on Transition redshift
15:30–15.45	Archisman Ghosh	Prospects of estimating cosmological parameters from gravitational-wave observations of coalescing binary black holes.
15:45-16:00	Shankaranarayanan S.	Low scale Higgs Inflation with Gauss Bonnet Coupling

Wednesday, 11 May, 2016

Time:14:30-16:00

Venue: EMMRC Auditorium

Stars, The Milky Way Galaxy and its Neighbours-II [Chairperson: G.C. Anupama]

Time	Speaker	Title
14:30–14:45	Lalitha Sairam	Magnetic activities in the outer atmospheres of RS CVn-type Binaries
14:45–15:00	Arti Joshi	Photometry and Polarimetry study of Cataclysmic Variables (CVs)
15:00-15:15	Anindita Mondal	Abundance analysis of the Recurrent nova RS Ophiuchi (2006 outburst)
15:15 – 15:30	Mayukh Pahari	Spectro-temporal analysis of X-ray binaries using LAXPC on-board ASTROSAT satellite
15:30 – 15:45	Gaurava K Jaisawal	Suzaku observations of the Be/X-ray binary pulsar GX 304-1
15:45 – 16:00	Hyung Mok Lee	Dynamical Formation of Compact Binaries in Dense Star Clusters

ASI-2016 Parallel Sessions: Thursday, 12 May, 2016

Thursday, 12 May, 2016 Time:11:30 - 13:15		
Venue: Ibn Khaldoon Auditorium		
Extragalactic Astronomy–III [Chairperson: Pushpa Khare]		
Time	Speaker	Title
11:30-12:00(I)	R. Srianand	On the star formation in high-z DLAs
12:00-12:15	J N H S Aditya	Cold Gas in High Redshift Galaxies
12:15-12:30	Charles Jose	Non-linear clustering of high redshift galaxies
12:30-12:45	Katherine Rawlins	Multi-component H ₂ absorption in a damped Lyman- α absorber at $z_{\text{abs}} = 2.054$ - spectroscopic analysis & simulation
12:45-13:00	Sonali Sachdeva	Evolution of disc galaxies for the past 8 Gyrs
13:00-13:15	Sandeep Rana	HI intensity mapping, co-adding and cross-correlation

Thursday, 12 May, 2016 Time:11:30-13:00		
Venue: Biotechnology Auditorium		
Instrumentation and Techniques–II [Chairperson: T. P. Prabhu]		
Time	Speaker	Title
11:30 – 12:00 (I)	Sunetra Giridhar	HESP: an echelle spectrograph for 2m HCT
12:00-12:20	Prasanna Deshmukh	Simulator for Primary Mirror Control System of Segmented Mirror Telescope
12:20–12:40	Vineeth Valsan	Development of Stressed Mirror Polishing Technology

Thursday, 12 May, 2016 Time:14:30-16:00		
Venue: Ibn Khaldoon Auditorium		
General Relativity and Cosmology-II[Chairperson:Jasjeet Bagla]		
Time	Speaker	Title
14:30–15:00	K. Subramanian (I)	Origin of Cosmological magnetic fields: Primordial AND dynamos?
15:05–15:15	Shishir Sankhyayan	Large Scale Structures and Clusters-Voids Cross-correlation
15:15–15:30	Rajesh Mondal	Statistics of the epoch of reionization 21-cm signal : Power spectrum error-covariance
15:30 – 15.45	Asif Iqbal Ahangar	Entropy excess and energy deposition profile in galaxy clusters up to virial radius
15:45 – 16.00	Bidisha Bandyopadhyay	Can Annihilating Clumped Dark Matter lead to Helium Reionization?

Thursday, 12 May, 2016 Time:14:30-16:00		
Venue: EMMRC Auditorium		
Stars, The Milky Way Galaxy and its Neighbours–III [Chairperson: H.P. Singh]		
Time	Speaker	Title
14:30-15:00(I)	Sharanya Sur	Galaxy outflows without supernovae
15:00-15:15	Naveen Yadav	Dynamics of Supernova Driven Shells
15:15-15:30	Jayant Murthy	Modeling the diffuse ultraviolet background
15:30-15:45	Smitha Subramanian	Signatures of a tidally stripped stellar population from the inner regions of the Small Magellanic Cloud
15:45-16:00	Samir Mandal	Spectral properties of pair-plasma in disc-jet system around black hole

Thursday,12 May, 2016

Time:14:30-16:00

Venue: Biotechnology Auditorium

Sun and Solar System–II [Chairperson: Divya Oberoi]

Time	Speaker	Title
14:30-15:00(I)	Piyali Chatterjee	Mystery of repeatedly flaring delta sunspots
15:00-15:15	Sreejith Padinhatteeri	Delta-sunspot groups and Solar Flares
15:15-15:30	Suruchi Goel	The statistical study of global properties of sunspots in SoHO/MDI continuum images over solar cycle 23
15:30-15:45	Vaibhav Pant	Kinematics of fast and slow CMEs
15:45-16:00	Tanmoy Samanta	Response of chromospheric jets in the corona

ASI-2016 Thesis Presentations: Friday, 13 May, 2016

Friday, 13 May, 2016

Time: 11:30 - 13:30

Thesis presentations

Time	Speaker	Title
11:30 – 11.45	S. Rathna Kumar	Determination of H_0 through monitoring of gravitationally lensed quasars
11:45 – 12:00	S. Athiray	Study of lunar surface chemistry using Swept Charge Devices
12:00 – 12.15	Samyaday Choudhury	Study of evolved stellar populations in the Magellanic Clouds
12:15 - 12:30	K Sasikumar Raja	Radio Polarization Studies of the Solar Corona at Low-frequencies
12:30 - 12:45	Drisya K	Studies on Carbon-Enhanced Metal-Poor (CEMP) stars
12:45 - 13:00	Raja Bayanna	Study of coupling between the layers of the solar atmosphere at high resolution
13:00 – 13:15	Archana Soam	Investigation of galactic star forming regions and young stellar objects
13:15 - 13:30	V. Venkataraman	Infrared investigations of circumstellar matter