



## Exploring the Universe: Near Earth Space Science to Extra-Galactic Astronomy

14-17 November, S N Bose National Centre for Basic Sciences



### Program Schedule

#### Scientific Sessions:

**A. Plenary Sessions: Venue - Science City Mini Theatre (15<sup>th</sup> November 2018)**

**B. Parallel Sessions: Venue - S N Bose National Centre (14<sup>th</sup>, 16<sup>th</sup> - 17<sup>th</sup> November, 2018):**

- (a) Black Hole & High Energy Astrophysics: Silver Jubilee Hall (2<sup>nd</sup> floor of main building)
- (b) Stellar Astrophysics: Lecture Hall 3 (LH3/Fermion, 2<sup>nd</sup> floor of main building)
- (c) Astrochemistry: Parallel session: Lecture Hall 2 (LH2/Boson, 2<sup>nd</sup> floor of main building)
- (d) Atmospheric & Ionospheric Science: Parallel session: Lecture Hall 2 (LH2/Boson)

#### Registration (In front of LH2/Boson, 2<sup>nd</sup> floor of main building):

**13<sup>th</sup> November 2018: 17:00 - 19:30**

**14<sup>th</sup> November 2018: 08:00 - 09:00**

- Registration will continue during lunch and tea breaks
- Documentary on Professor Satyendra Nath Bose will be shown in three lectures halls continuously during the registration process

# Scientific Sessions

14<sup>th</sup> November 2018

Inaugural Session (Silver Jubilee Hall)											
09:00-09:05		Lighting of Lamp									
09:05-09:15		Inaugural talk by Prof. Samit K. Ray, Director, SNBNCBS									
09:15-09:25		Opening remarks by Convener (Dr. Soumen Mondal)									
09:25-09:30		Opening remarks by LOC Convener (Dr. Ramkrishna Das)									
Scientific Sessions (Parallel)											
Black Hole & High Energy Astrophysics				Stellar Physics				Astrochemistry I			
Chair: A. R. Rao				Chair: G C Anupama				Chair: Takashi Simonishi			
Time	Type of Talk	Speaker	Title	Time	Type of Talk	Speaker	Title	Time	Type of Talk	Speaker	Title
09:30	Invited	Sandip K Chakrabarti	Turning points in Accretion/ Outflow problem over last Eighty Years	09:30	Invited	A K Pandey	Triggered star formation in H II regions	09:30	Invited	Naoki Nakatani	Adsorption energies of atoms and molecules on the amorphous ice surface based on quantum chemistry calculations
09:50	Invited	Indranil Chattopadhyay	Relativistic flows around Compact Object	09:50	Invited	Soumen Mondal	Rotational evolution of young stellar objects in star-forming regions	09:50	Invited	Amit Pathak	Infrared spectra of interstellar PAH variants
10:10	Invited	Santabrata Das	On the nature of the transonic accretion flows around black holes	10:10	Invited	Jessy Jose	Protoplanetary disk evolution in massive star forming environments	10:10	Invited	Bhalmurugan Sivaraman	IR and VUV Spectroscopy of Astrochemical Ices
10:30	Invited	Sukanta Bose	Constraining the densest form of matter with gravitational wave observations	10:30	Invited	Manash Samal	Extended H <sub>2</sub> emission line sources from UWISH2: Survey Overview, Data Releases, and Recent Results	10:30	Invited	Ankan Das	Astrochemical modeling in explaining observational aspects
Tea/Coffee Break											
11:15	Contributory	Arka Chatterjee	Dynamic images of Two Component Advective Flow around black holes in presence of outflows and cooling	11:15	Contributory	Somnath Dutta	The Formation of Star clusters in Planck Cold Clumps: the case of G108.37-01.06	11:15	Contributory	Prasanta Gorai	Link between Interstellar and Cometary Sulfur Bearing Species
11:30	Contributory	Upasana Das	Internal instabilities in magnetized jets	11:30	Contributory	Drisya Karinkuzhi	Why do galaxies care about Asymptotic Giant Branch (AGB) stars?	11:30	Contributory	Ranjan Gupta	Dust in Astrophysics and its Modeling
11:45	Contributory	Ayan Bhattacharjee	Formation of Two-Component Advective Flows around Neutron Stars	11:45	Contributory	Abhishek Paswan	H $\alpha$ imaging of Wolf-Rayet Galaxies	11:45	Contributory	Projjwal Banerjee	Origin of Heavy Elements in the Early Galaxy
12:00	Contributory	Biplob Sarkar	Magnetically supported viscous accretion flow around a rotating black hole	12:00	Contributory	Subhajeet Karmakar	Activity of Young Dwarfs with Planetary Systems: EPIC 211901114 and K2?33	12:00	Contributory	Binukumar G Nair	Stratospheric Altitude Microbiology Probe for Life Existence (SAMPLE) and Micrometeorite collector? A Method of Collection of Stratospheric Samples Using Balloon-Borne Payload System
12:15	Contributory	Nagendra Kumar	Continuous Jet Leptonic model for Blazars - A Monte Carlo study	12:15	Contributory	Ashish Raj	Optical study of peculiar nova ASASSN-18fv				

12:30	Contributory	Soumen Mondal	Exploring the dissipative shocks in relativistic accretion flows around black holes.	12:30	Contributory	Rupak Roy	The natures of the nuclear-transients	12:15	Contributory	Milan Sil	A New Set of Binding Energies for Astrochemical Modeling
12:45	Contributory	Sudeb Ranjan	Nuclear astrophysics around compact object	12:45	Contributory	Arti Joshi	Probing the optical and X-ray properties of three eclipsing polars	12:30	Short Talk	Naznin R Choudhury	Study of light scattering properties of porous dust particles
<b>Lunch Break + Poster Session (at Basundhara building)</b>											
<b>Black Hole &amp; High Energy Physics</b>				<b>Stellar Physics</b>				<b>Atmospheric &amp; Ionospheric Science-I</b>			
<b>Chair: Samir Mandal</b>				<b>Chair: B G Anandarao</b>				<b>Chair: J P Raulin</b>			
14:15	Contributory	Prasanta Bera	Quasi-periodic oscillations from post-shock accretion column of polars	14:15	Contributory	Raya Dastidar	SN 2015ba: a case study of a Type IIP supernova with a long plateau.	14:15	Invited	Maxim G. Golubkov	Radio wave and satellite signal propagation medium in D and E layers of the ionosphere: resonance and optical properties
14:30	Contributory	Ritabrata Biswas	Viscous dark energy accretion: threshold drop in accretion density profile	14:30	Contributory	Anjasha Gangopadhyay	Asymmetries in the nebular phase emission of Type IIb supernovae	14:35	Invited	Ashik Paul	Space Situational Awareness and Space Weather Effects
14:45	Contributory	OluwashinaAdegokere	Variability Properties of Seyfert 1 AGN: Mrk 493 and Zw 229.015 as case studies.	14:45	Contributory	Lankeswar Dey	Explaining the observed large variations in the projected jet-position-angle of OJ 287 using its binary black hole central engine model	14:55	Invited	Dibyendu Chakrabarti	New results on the space weather footprints over low latitudes
15:00	Contributory	Mukesh Kumar Vyas	Compton driving of astrophysical jets and association with their observed features	15:00	Contributory	Ramkrishna Das	Grid Model of Novae	15:15	Invited	Birbal Singh	Multi-experiment and multi-station approach to ascertain electromagnetic precursors of earthquakes using ground and ionospheric data
15:15	Contributory	Anjali Rao	Distances and Peculiar Velocities for Galactic Black Hole Transients with Gaia DR2	15:10	Short Talk	Anindita Mondal	Study of Quiescence Phase of Novae				
				15:20	Short-Talk	Tirthendu Sinha	Search for variable stars in young open clusters				
15:30	Contributory	Prasun Dhang	Possible manifestation of shock oscillations in presence of a large scale magnetic field as high-frequency QPOs	15:30	Short-Talk	Rakesh Pandey	Multiwavelength study of an HII region.	15:35	Invited	A. K. Upadhyaya	Ionospheric Variability: Source Apportionment
				15:40	Short-Talk	Supriyo Ghosh	Phase-dependent photometric and Spectroscopic Characterisation of the MASTER OT J183012.04+093342.6 : An OH/IR star				
15:45	Contributory	Rahul Sharma	Spectral state dependence of the accretion disc absorption in MXB 1658-298	15:50	Short-Talk	Anuj Gupta	Thermodynamics of the condensation of the early solar system grains	15:55	Invited	Ritabrata Sarkar	Space Exploration Using Lightweight Payloads Onboard Meteorological Balloons
16:00	Contributory	Md Ramiz Aktar	Simulation of High Frequency Quasi-Periodic Oscillations (HFQPOs) around rotating black holes	16:00	Short-Talk	Ayesha Maryam Mazarbhuiya	Polarimetric study of comets 32P/Comas Sola and C/2015 V2 (Johnson) at low phase angles				
16:15	Contributory	Shubhrangshu Ghosh	A unified scenario of black hole X-ray binary states with jets	16:10	Short-Talk	Neeraj Kumari	Soft X-ray excess in Mrk-766	16:15	Contributory	Victor U. J. Nwankwo	Space Weather: Response of the Atmosphere to Solar Activity and Its Implications for LEO Satellites
<b>Tea/Coffee Break</b>											
<b>Black Hole &amp; High Energy Astrophysics (contd.)</b>				<b>Stellar Physics (LH3)</b>				<b>Atmospheric &amp; Ionospheric Science-I (LH2)</b>			
<b>Chair: Indranil Chattopadhyay</b>				<b>Chair: Bacham Eswar Reddy</b>				<b>Chair: Birbal Singh</b>			
17:00	Short-	Tushar	Magnetized disc-outflow	17:00	Contributory	Kishor	Long-term X-ray variability	17:00	Invited	Sudipta	Numerical modeling of long-path

	Talk	Mondal	symbiotic model around black holes and its implication to Ultra-luminous X-ray sources		tory	Chaudhury	characteristics of the narrow-line Seyfert 1 galaxy RE J1034+396			Sasmal	propagation characteristics of radio waves as observed from Indian Antarctic stations
17:10	Short Talk	Arnab Deb	Can Toroidal Flux tubes collimate and accelerate the Jets/Outflow for a Blackhole	17:15	Contributory	C S Stalin	Narrow Line Seyfert 1 galaxies: A new class of gamma-ray emitting AGN	17:20	Invited	Sourav Palit	A robust computer model to investigate extra-terrestrial modulations of Earth's atmosphere
17:20	Short Talk	Sanjeev Kalita	Astrophysical tests of gravitational theories	17:30	Contributory	Narendra Nath Patra	Unmasking the dark galaxies	17:40	Contributory	Sushanta Kumar Mondal	Space weather effects on low and mid-latitudes
17:30	Short Talk	Abhishek Roy	Time-dependent hydrodynamic simulation mimicking an outburst	17:45	Contributory	Sumana Nandi	ULIRGs: the possible progenitors of the powerful radio galaxies	17:55	Contributory	Sujay Pal	Mid-latitude and high latitude ionospheric disturbances associated with stratospheric warming events in polar region
17:40	Short Talk	Indu Kalpa Dihingia	Two-temperature dissipative accretion flow around black holes	18:00	Contributory	Sabyasachi Pal	Low frequency radio emission from extra-solar planets using TIFR GMRT Sky Survey	18:10	Contributory	Tamal Basak	Modeling of simultaneous multiple path VLF observation of solar flare using zenith angle profile and LWPC
17:50	Short Talk	Shilpa Sarkar	Two-temperature advective transonic accretion flows around black holes	18:15	Short-Talk	Deepak	Archaeology of the Galaxy in the Era of Large Astrometric and Spectroscopic Surveys	18:25	Contributory	Suman Ray	Possibility of earthquake prediction by using VLF signals
18:00	Short Talk	Kuldeep Singh	Relativistic Magnetohydrodynamics with Relativistic Equation of State	18:25	Short-Talk	Prabir Kumar Mitra	Multiwavelength analysis and modelling of successive flux rope eruption from solar active region NOAA 12673 and associated X-class flares on 2017 September 6	18:40	Contributory	Suman Chakraborty	Observation of energetic particle bursts at magnetospheric altitudes through satellite observations during Nepal, 2015 earthquake
18:10	Short-Talk	Md Arif Shaikh	Relativistic acoustic geometry in general relativistic accretion disc around Kerr black holes	18:35	Short Talk	Dusmanta Patra	Galactic and extra-galactic transient radio sources				
18:20	Short-Talk	Sudip Chakraborty	Alignment of the jet with black hole spin: a hint from the TDE Swift J1644+57	18:45	Short Talk	Shyam Sarkar/ Pabitra Sil/ Ashim Sarkar	New Telescope Facility at IERCOO, Sitapur				
18:30	Short-Talk	Debjit Chatterjee	Accretion Properties of the Black Hole XTE J1118+480 with the TCAF Solution								
18:40	Short-Talk	Arghajit Jana	Disk-Jet Connection in Black Holes								
18:50	Short-Talk	Arindam Ghosh	Direct Observational Evidence of Two Components in Accretion Flow onto a Black Hole								
19:00	Short-Talk	Soumen Roy	Designing an effectual template placement algorithm for searches of gravitational wave from compact binary coalescences								
<b>Dinner: 19:30 Hrs</b>											

## 15 November 2018

**[Vehicles will start at 07:30 am from SNBNCBS& Youth Hostel (Salt Lake stadium)]**

**08:00 - 08:50 Breakfast**

<b>Special Session to celebrate 60<sup>th</sup> birth anniversary of Prof. Sandip Kumar Chakrabarti</b> (Mini Theatre, Science City, Kolkata)		
09:00	Inauguration by Prof. A.R. Rao, Session Chairman	
09:10	A presentation on S.K. Chakrabarti's Profile	
09:15	Address by Prof Samit K Ray, Director, SNBNCBS	
09:25	A Festschrift (Springer) release by Prof. Genady Bishnovaty-Kogan	
09:30	Editor's comments by B. Mukhopadhyay and S. Sasmal	
09:40	<i>My Random walk in Astrophysics</i> by S.K. Chakrabarti	
<b>Group Photo &amp; Tea/Coffee Break (10:30-11:00)</b>		
<b>Plenary Session</b>		
<b>Session Chair: Swarna Kanti Ghosh</b>		
Time	Speaker	Title
11:00	Gennady Bisnovaty-Kogan	Strong shock wave in the expanding universe
11:30	A. R. Rao	High Energy Astrophysics: AstroSat and Beyond
12:00	Lev G Titarchuk	X-ray spectral index correlations vs mass accretion rate in neutron star and black hole X-ray binaries in their different spectral states. Theory vs observations
12:30	J. Murthy	A mysterious glow in the Galactic poles.
<b>Lunch Break (13:00 -14:00)</b>		
<b>Session Chair: B G Anandarao</b>		
14:00	Bing-Ming Cheng	Exploring the space with vacuum-ultraviolet radiation
14:30	G. C. Anupama	Novae and Supernovae Outbursts
15:00	Jonathan Granot	Lessons from GW170817 / GRB170817A
15:30	Heino Falcke	Imaging black hole now and in the future
16:00	Hsiang-Kuang Chang	Search for Serendipitous Trans-Neptunian Object Occultation in X-Rays
<b>Tea/Coffee Break (16:30 -17:00)</b>		
<b>Session Chair: J P Raulin</b>		
17:00	Swarna K. Ghosh	Role of Indian Observatories in Exploring the Universe
17:30	Devendra K. Ojha	Research on space science using balloon platforms
18:00	Kailash C. Sahu	A Census of Planets in the Milky Way
18:30	E Arunan	Microwave and Shock Wave Experimental and Computational Studies on Astrochemistry
19:00	Takashi Somonishi	Interstellar molecules at low metallicity explored through observations extragalactic star-forming regions
19:30	Jean-Pierre Raulin	Six decades of Very Low Frequency research activities at CRAAM/Brazil
20:00	<b>Gala Dinner and impromptu comments by SKC's Colleagues/Students</b>	

**Bus leaves for Guest Houses at 9:45 p.m.**

## 16 November 2018

Scientific Sessions (Parallel)											
Black Hole & High Energy Physics				Stellar Physics				Atmospheric & Ionospheric Science-II			
Chair: Jayant Murthy				Chair: A K Pandey				Chair: A K Upadhyay			
Time	Type of Talk	Speaker	Title	Time	Type of Talk	Speaker	Title	Time	Type of Talk	Speaker	Title
09:15	Invited	K. P. Singh	Multi-wave studies of AGN with AstroSat	09:15	Invited	B G Anandarao	Four Very Low Mass Stars and an Exo-Planet - Journey of PARAS	09:15	Contributory	Paramita Dasgupta	General Treatment of Reflection of Spherical Waves from a Spherical Surface: A Rigorous Formalism Applicable to Ultra High Energy Cosmic Ray Induced Radio Signals Detected by ANITA Observatory
09:35	Invited	Arun Mangalam	Super massive black hole demographics	09:35	Invited	Bacham Eswar Reddy	Anomalously Large Lithium in red giant stars: A thorny problem to stellar evolutionary models	09:30	Contributory	Mamta Chauhan	Study of Geology of Doppelmayer Characteristics Crater using High-Resolution Datasets from Recent Lunar Mission
09:55	Invited	A. Gopakumar	Blazar OJ287 and its nano-Hertz GW emitting massive BH binary central engine	09:55	Invited	Gargi Shaw	A plausible way to infer the accretion disk magnetic fields of LMXB dippers using Fe XXV and Fe XXVI lines	09:45	Contributory	Sumanjit Chakraborty	Analysis of the Ionospheric TEC over central India during low solar activity using ANN
								10:00	Short Talk	Surya Kanta Maji	Topside ionospheric effects of the annular solar eclipse of 15th January 2010 as observed by DEMETER satellite
10:15	Invited	Ramandeep Gill	Probing the GRB prompt emission mechanism, magnetic field geometry, and jet structure with linear polarization	10:15	Invited	Firoza Sutharia	Supernova and their remnants in the era of Astrosat.	10:10	Short-Talk	Dipak Sanki	Study about the effects of solar X-ray and UV radiations on ionosphere using long term sub-ionospheric VLF signal data
								10:20	Short Talk	Soujan Ghosh	Thermal Anomalies: As Lithospheric - Tropospheric interaction and precursory effect of large Earthquake
Tea/Coffee Break											
11:00	Contributory	Nibedita Kalita	Swift and XMM-Newton monitoring of the TeV blazar PG 1553+113	11:00	Contributory	Siddhartha Bhattacharyya	Prospects of detecting fast radio bursts using Indian radio telescopes	11:00	Short Talk	Asit Choudhury	Unusual Precursory Behaviour of VLF signal parameters Before Devastating Nepal Earthquake, 25th April, 2015
11:15	Contributory	Rupal Basak	Multi-wavelength and multi-messenger view of gamma-ray bursts	11:15	Contributory	Nimisha Kumari	Extragalactic Science Results with integral field spectrographs: GMOS and MUSE	11:10	Short Talk	Subrata Kundu	Comparison of Ionospheric Vertical Total Electron Content during high solar active year and low solar active year for Indian region based on IGS station GPS observables
								11:20	Short Talk	Swati Chowdhury	Numerical modelling of seasonal and diurnal variations of lower ionospheric reflection parameters based on IRI model
11:30	Contributory	Amit Shukla	Implications of observed short-timescale gamma-ray variabilities on blazars jets	11:30	Contributory	Navin Chandra Joshi	Investigation of Magnetic Field Configuration of typical and atypical Confined Flares	11:30	Short Talk	Abhijit Roy	Comprehensive study of cosmic ray interaction with earth's atmosphere using Monte Carlo simulation
11:45	Contributory	Kallol Mukherje	Results from studies of X-ray sources with Astrosat	11:45	Contributory	Mousumi	Star Formation in the Outer Disks of Galaxies and its Implications	11:40	Short Talk	Radhe Shyam	Study of initiation, Interplanetary Consequence and Geo-effectiveness of

		e				Das	for Galaxy Evolution			Gupta	CME Associated
12:00	Contributory	Dipak Debnath	Evolution of Accretion Flow Properties around Black Holes from Observations	12:00	Contributory	Dada Nade	Enhancement in intensity of nightglow OI 630 nm emission due to the Milky Way Galaxy	<b>Astrochemistry II (LH2)</b>			
								<b>Chair: Naoki Nakatani</b>			
								12:00	Invited	Kinsuk Acharyya	Molecular Complexity at low metallicity
12:15	Contributory	Broja Gopal Dutta	An Explanation of the Origin of Soft and Hard Lag in the Black Hole X-Ray Transients	12:15	Contributory	A K Diwakar	Orientations of the elliptical galaxies	12:20	Contributory	Dipen Sahu	Tracing the low-mass star formation; complex molecule and hot-corino
12:30	Contributory	Tilak Katoch	Test, Evaluation & On-board Performance of Large Area X-ray Proportional Counter (LAXPC) - Astrosat	12:30	Short-Talk	Avrajit Bandyopadhyaya	Study of Globular cluster escapees and exploring the common origin of globular clusters and Halo using n-capture elements.	12:35	Short Talk	Rahul Kumar Kushwaha	Ozone on Callisto
12:45	Contributory	Sachindra Naik	Properties of high mass X-ray binary pulsars at different luminosities	12:40	Short-Talk	Arpan Ghosh	Photometric Monitoring of FUors and EXors	12:45	Short Talk	Gulafsha Begom Choudhury	Study of the magnetic field geometry of a dark cloud CB17 in both optical and sub-millimeter wavelength
<b>Lunch Break + Poster Session (at Basundhara building)</b>											
<b>Chair: A Gopakumar</b>				<b>Chair: Firoza Sutaria</b>				<b>Chair: Naoki Nakatani</b>			
14:15	Contributory	Partha Sarathi Pal	Accretion Flow Geometry Evolution around Black Holes	14:15	Contributory	Hariharan Krishnan	Study of Fine Structures in Solar Radio Emission	14:15	Short Talk	Surendra Vikram Singh	Radiation Induced Chemistry on Icy Satellite Surfaces Embedded in Magnetospheric Plasma Environments - A New Experimental Facility at PRL
14:30	Contributory	Aru Beri	X-Ray Observations of Very Faint X-Ray Transients (VFXTS) Versus Bright X-Ray Transient	14:30	Contributory	Reetika Joshi	How Solar Jets Can Trigger the Filament Eruption				
14:45	Contributory	Mayukh Pahari	Astrosat Observation of Cygnus X-3	14:45	Contributory	Margarita Safonova	Near-Ultraviolet Astronomical Observations from the Moon: Lunar Ultraviolet Cosmic Imager (LUCI)	14:25	Short Talk	Bratati Bhat	Radiative transfer modeling of some observable Interstellar species
15:00	Contributory	Indrani Banerjee	The 2004 outburst of BHC H1743-322: analysis of spectral and timing properties using the TCAF solution	14:55	Short-Talk	Shirsh Lata Soni	Study of interplanetary and Solar wind features with Geomagnetic storms during ascending phase of solar cycle 23 and 24 at 1 AU	14:35	Short Talk	Suman Kumar Mondal	Complex Organic Molecules in Hot molecular core
15:15	Contributory	Jayashree Roy	LAXPC / AstroSat Study of ~ 1 and ~ 2 mHz Quasi-periodic Oscillations in the Be/X-ray Binary 4U 0115+63 During its 2015 Outburst	15:05	Short-Talk	Henal Bhatt	Mapping of basaltic units and the mineralogical variations of Mare Tranquillitatis of Moon with temporal, spatial and topographical heterogeneity using Moon Mineralogy Mapper(M3) data of Chandrayaan-1	14:45	Short Talk	Susmita Barman	Physical conditions of HII regions in Super bubble N44 in the LMC
15:30	Contributory	Rajiv Kumar	The two-dimensional disk structures around black holes	15:15	Short-Talk	Vishal Goyal	A novel code for the early thermal evolution and differentiation of Moon				
				15:25	Short-	Vineet	Exploring the additional planet in				

				Talk	Kumar Mannaday	the Extra-solar Planetary System Qatar-1				
<b>Tea/Coffee Break</b>										
<b>City Tour (preference will be given to foreigners and outstation participants)</b>										
<b>Dinner at 20:00 hrs</b>										

**17 November 2018**

<b>Scientific Sessions (Parallel)</b>							
<b>Black Hole &amp; High Energy Physics</b>				<b>Stellar Physics</b>			
Chair: Lev Titarchuk				Chair: Kailash Sahu			
Time	Type of Talk	Speaker	Title	Time	Type of Talk	Speaker	Title
09:15	Invited	Tomaso M. Belloni	Fast variability in black-hole binaries: accretion and General Relativity	09:15	Invited	Aruna Goswami	Understanding Univesre with Metal Poor Stars
09:35	Invited	P. Laurent	Fast variability in black-hole binaries: accretion and General Relativity	09:35	Invited	Ramesh Chandra	Kinematics and Dynamics of two Solar Extreme Ultraviolet (EUV) waves
09:55	Invited	Samir Mandal	Accretion Dynamics of Outbursting X-ray Sources	09:55	Contributory	Eeshankur Saikia	Multi Fractal Analysis of Solar-Terrestrial Environment
10:15	Contributory	Meghendra Singh	Cosmology using Long Gamma Ray Bursts: Statistical Analysis of Errors in the calibrated Data	10:10	Short Talk	Piyali Saha	Distance to L 1172/1174 based on Gaia parallax measurements
				10:20	Short Talk	Bharti Arora	X-ray investigation of the colliding wind WN+O binary WR 25
10:30	Contributory	Shreeram Nagarkoti	The outburst of H1743-322 in 2003 and its ramifications on later outbursts	10:30	Short Talk	Sandeep Rout	Multi-wavelength study of GRO J1719-24 during outburst of December 2016

**Tea/Coffee Break**

**Concluding remarks and vote of thanks**

**Trip to Sundarban**

**Lunch at Basundhara building (for those who are not going to Sundarban)**

### **POSTERS (maximum size: 3 ft (horizontal) x 4 ft (vertical))**

**[Dates: AI 1-4 & BH1-21: 14 November 2018, 2018; SG 1-26: 16 November 2018; Venue: Basundhara]**

SI No	Name	Title of the Talk
AI 1	Dr.Bhupendra Kumar Tiwari	Study of solar interplanetary causes and their impact on GCR fluxes during SC23/24
AI 2	P.K. Chamadiya	Effect of coronal mass ejection on Earth's magnetic field during Ascending hase of Solar cycle 24
AI 3	Maya Prabhakar	Exploring the Inner Solar Corona Through Fabry-Perot Interferometric Studies
AI 4	Suraj Sahu	Thermal and non-thermal processes caused by large-scale restructuring of coronal magnetic fields driven by the flux rope eruption
BH 1	Nandita Lahkar Kalita	Anomaly with the Hubble parameter: Have we missed something?
BH 2	Himani Dashora	Timing Study of Dark GRB 130528A at differential Energy Bands.
BH 3	Mayur Bhaskar	Formation of Episodic Jets from Black Hole Accretion Disks
BH 4	Surajit Kalita	Modified gravity to unify sub- and super-Chandrasekhar limiting mass white dwarfs
BH 5	Sajahan Molla	A theoretical approach of compact stars in low-mass X-ray binaries
BH 6	Subham Ghosh	Transport of angular momentum in accretion disks from hydrodynamics point of view.



BH 7	Fazlay Ahmed	5D regular black hole and its shadow
BH 8	Nilam R. Navale	Long Term Evolution of the Variability Classes in the Black Hole Binary GRS 1915+105
BH 9	Kaushik Chatterjee	Properties of transient black hole candidate XTE J1752-223 during its 2009-10 outburst
BH 10	Prantik Nandi	Spectral and Temporal Properties of Super-Massive Black Holes in Light of Two Component Advective Flow
BH 11	Priya Bharali	Spectro-temporal study of GRS 1716 - 249 using Swift/XRT and NuSTAR
BH 12	Akram Chandrajit Sinha	Study of X-ray Point Sources with Chandra X-ray Observatory
BH 13	Devraj Pawar	Variability in Black Hole binary system Maxi J1820+070
BH 14	Biswajit Mondal	Hard X-ray mirrors for High Energy Astronomy
BH 15	Divya Rawat	Study of Timing Evolution from Non-Variable to Structured Large-Amplitude Variability Transition in GRS 1915+105 USING AstroSat
BH 16	Anubhab Banerjee	Spectral Analysis on the Class Variable Source GRS 1915+105 Using TCAF Solution
BH 17	Swadesh Chand	Spectral and temporal study of LMC X-1 with a joint XMM-Newton and NuSTAR observation
BH 18	Sananda Raychaudhuri	Accretion in five component elliptical galaxy : Multitransonicity, shocks and implications on AGN feedback
BH 19	Yash Bhargava	Spectral and Timing analysis of Black hole source MAXI J1535-571
BH 20	Ankush Banerjee	A study of Ultra Compact X-ray Binary 1A 1246-588
BH 21	Ajay Ratheesh	Detecting short GRBs with AstroSat Cadmium Zinc Telluride Imager with improved noise removal
SG 1	Arun Kumar Singh	Determination of Intrinsic Shapes of Individual Elliptical Galaxy: NGC 2986 Using Modified Prior
SG 2	Chetan Bavdhanekar	Environment dependence of VIPERS galaxies
SG 3	Ruchi Pandey	Analysis of dust forming novae
SG 4	Rahul Bandyopadhyay	Photoionization Modeling of Planetary Nebulae VV28 and M1-11
SG 5	Piklu Santra	Study of Ultraluminous X-ray source HOLMBERG IX X-1: Analysis by TCAF solution
SG 6	Aishrila Mazumder	Cosmic Reionization with the Square Kilometre Array
SG 7	Pranav Kukreti	Star formation rates and HI emission of galaxies in the Extended Groth Strip
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