

REGISTRATION WILL BE ON 6TH MARCH, 2019 FROM 4 PM TO 5:30 PM

THE FIRST DAY (Thursday, 7th March '19)

Time	Program	
09:30	<p><i>Inauguration of BOSE FEST 2019</i> Lighting of Lamp Speech by Prof. Samit Kumar Ray (Director) Speech by Dean (AP)</p>	
<p><u>ORAL PRESENTATION</u> <u>Session - I</u></p>		
Chairperson : Prof. Jaydeb Chakrabarti		Venue : Silver Jubilee Hall
Time	Presenter's Name	Presentation Title
09:45	Alik Panja	Young stellar population in active star-forming region Sh2-242
09:57	Aniruddha Adhikari	One Nanomedicine for Dual Therapy; Route of Administration Plays the Magic
10:09	Anulekha De	Excellent Tunability of Spin-Wave Propagation and Magnonic Band Structure in 2D Ni ₈₀ Fe ₂₀ Diatomic Nanodot Arrays
10:21	Anuvab Banerjee	Spectral Analysis of Class Variable Source GRS 1915+105 Using Two Component Advective Flow Solution
11:33	Atanu Baksi	Dynamic Heterogeneity of Water under Confinement: Effects of Chemical Nature of Confinement
11:45	Avisek Maity	High Sensitive Paper Based Flexible Ammonia Sensor Based on Perovskite Halide
10:57	Juriti Rajbangshi	Dynamic Heterogeneity in (Ionic Liquid + co-solvent) binary mixture: Dependence on co-solvent polarity
11:09	Chandan Samanta	Fabrication of thin film transistor (TFT) on a flexible substrate using polymer electrolyte as gate dielectric with amorphous Indium Gallium Zinc Oxide (a-IGZO) channel
11:21	Tea Break (In front of Silver Jubilee Hall)	
<p><u>Session - II</u></p>		
Chairperson : Prof. Archan S. Majumdar		Venue : Silver Jubilee Hall
11:45	Arka Chatterjee	Possible Role of Outflows Determining Energy Dependent Time Lags
11:57	Arnab Sarkar	Significance of rapid mass-gain rate of primordial black holes in binaries, accreting high density radiation in early Universe, on the stochastic gravitational wave background produced from them
12:09	Ayan Bhattacharjee	Formation of Two-Component Advective Flows (TCAF) around Neutron Stars
12:21	Suchetna Goswami	Universal detection of entanglement in two-qubit states using only two copies
12:33	Dipika Mandal	Electromagnetic wave trapping in NiFe ₂ O ₄ Nano-Hollow Spheres: an Efficient Microwave Absorber
12:45	Ejaj Tarif	Interaction of water with simple carbohydrate in Urea + Carbohydrate Deep Eutectic Solvents
12:57	Kumar Das	Supergravity hybrid inflation and modulus backreaction (in preparation)
13:09	Riddhi Chatterjee	Some Information Theoretic Aspects of Time Development of Wave Packet under Gravity
13:21	Lunch Break (at Bhagirathi Guest House Canteen)	

Session - III

Chairperson : Prof. Soumen Mondal

Venue : Silver Jubilee Hall

14:30	Damayanti Bagchi	Sensitized ZnO nanorod assemblies to detect heavy metal contaminated phytomedicines: spectroscopic and simulation studies
14:42	Dhrimadri Khata	Understanding Physical Properties of Young M-Dwarfs: Near-Infrared H & K-Band Spectroscopic Studies
14:54	Jayita Patwari	Three in one approach towards efficient organic dye sensitized solar cells: Anti aggregation, panchromatic absorption and energy transfer
15:06	Kajal Kumbhakar	Relaxation in Lithium Ion Battery Electrolyte: Coupling to Medium Friction
15:18	Monalisa Singh Roy	Exotic phases in the one dimensional Fermi gas confined in an optical lattice, in the presence of spin-orbit coupling and Zeeman field
15:45	<u>POSTER PRESENTATION</u> (at Basundhara Hall) (Tea will be served alongwith)	
17:15	<u>ART & PHOTOGRAPHY FEST</u> (in front of Director's Bunglow)	
18:15 onwards	<u>Cultural Evening I</u> (Beside Director's Bunglow) Performance of Bengali Singer Raghab Chatterjee Tiffin will be served at the end of the program	

END OF THE FIRST DAY

THE SECOND DAY (Friday, 8th March '19)

Time	Program	
<u>ORAL PRESENTATION</u> <u>Session - IV</u>		
Chairperson : Prof. Kalyan Mandal		Venue : Silver Jubilee Hall
Time	Presenter's Name	Presentation Title
09:30	Gulmi Chakraborty	Solvent-Induced Molecular Folding: Fascinating morphology and Contrasting Effects on the Hydrophobic Outcomes
09:42	Mithun Pal	Trace gas analysis using wavelength modulation spectroscopy technique coupled with an external cavity quantum cascade laser at 7.5 μm
09:54	Subrata Ghosh	Magnetostructural Transition and Giant Magnetocaloric Effect near Room Temperature in $(\text{Mn}_{0.6}\text{Fe}_{0.4})\text{NiSi}_{1-x}\text{Al}_x$ ($x = 0.06 - 0.08$) Alloys
10:06	Prasanta Kundu	Protein Dynamics Modulation of Low-temperature Electron Transfer Kinetics in <i>Rhodospseudomonas viridis</i>
10:18	Suman Chakraborty	Comparative study of charged particle precipitation from Van Allen radiation belts as observed by NOAA satellites during a land earthquake and an ocean earthquake
10:30	Sanchi Maithani	Ro-Vibrational Spectral Analysis Of Ammonia Near 6.2 μm Using Cavity Ring-Down Spectroscopy
10:42	Shounak Datta	Sharing of nonlocal advantage of quantum coherence by sequential observers
10:54	Sucheta Mondal	All-optical Determination of Spin Torque Efficiency in $\beta\text{-Ta/CoFeB/SiO}_2$ Heterostructures
11:06	Tea Break (In front of Silver Jubilee Hall)	
<u>Session - V</u>		
Chairperson : Prof. Pratip Kr. Mukhopadhyay		Venue : Silver Jubilee Hall
11:30	Debasmita Maiti	Quantum Phase Diagram of Frustrated Spin-1/2 System on a Trellis ladder
11:42	Sudip Kumar Saha	Hybrid ED/DMRG approach to the thermodynamics of 1D quantum models
11:54	Samrat Ghosh	A Search for Photometric Variability in Low Mass Stars and Brown Dwarfs
12:06	Sudipta Pattanayak	Enhanced dynamics of active Brownian particle in a periodically arrayed obstacles and corrugated channel
12:18	Suraka Bhattacharjee	Charge Correlations in Low-dimensional Doped Quantum Antiferromagnets
12:30	Tuhin Kumar Majhi	Intricate modulation of interlayer coupling at Graphene Oxide (GO)/ MoSe_2 interface: application in time-dependent optics and device transport
12:42	Lunch Break (at Bhagirathi Guest House Canteen)	
<u>Session - VI</u>		
Chairperson : Prof. Manoranjan Kumar		Venue : Silver Jubilee Hall
14:00	Srabantika Ghose	Effect of grain boundaries on the leakage current of multiferroic gallium ferrite
14:12	Rahul Bandyopadhyay	Study of Morphologies and Ionization Characteristics of Planetary Nebulae
14:24	Samiran Choudhury	Electric Field-Modulated Propagating Spin Wave Properties in Ultrathin CoFeB Film
14:36	Supriya Dutta	Generalized Entropy

15:00	<u>ALUMNI SESSION</u>
16:30	Concluding Remarks and Vote of Thanks
17:30	<u>Cultural Evening II</u> In-house Programme (Performance by members of our Centre) By Muktangan & Prize Distribution (Beside Director's Bunglow)
20:15 onwards	<u>Family Dinner</u> Hosted by the Centre (At Lawn)
END OF BOSE FEST 2019	



Scan This QR Code to get the Abstract Book of BOSE Fest 2019 along with the Schedule