



# Bose fest 2021



## Programme Schedule

Sl. No.	Name	Department	Title	Date	Time
<b>DAY 1 : 03/08/2021</b>					
Inauguration					10:15
1	Abhinandan Das	CBMS	An insilico approach to validate anti-diabetic drugs for Alzheimer's disease	03/08/2021	10:30
2	Achintya Low	CMPMS	Effect on Magnetic and Electronic transport properties of a Correlated Kagome Magnet Mn <sub>3</sub> Sn with Fe doping	03/08/2021	10:45
3	Aishwaryo Ghosh	CMPMS	Machine Learning in Material Sciences	03/08/2021	11:00
4	Akash Das	CBMS	Experimental Observation of Optical Beam Shifts for Gaussian Beams	03/08/2021	11:15
<b>BREAK 15 Minutes</b>					
5	Amrit Kumar Mondal	CMPMS	Investigation of interfacial Dzyaloshinskii-Moriya interaction in monolayer graphene/CoFeB heterostructures	03/08/2021	11:45
6	Ankur Srivastav	TS	Holographic Superconductors	03/08/2021	12:00

7	Anupam Gorai	CMPMS	Multi-layered nano-hollow spheres : An efficient electromagnetic wave absorber	03/08/2021	12:15
8	Anwasha Chakraborty	TS	Forced Harmonic Oscillator in Non-commutative Space-time and Emergence of Geometrical Phase	03/08/2021	12:30
9	Bihalan Bhattacharya	A&C	Generating and detecting bound entanglement in two-qutrits using a family of indecomposable positive maps	03/08/2021	12:45
<b>LUNCH BREAK</b>					
10	Biswajit Pabi	CMPMS	Probing Metal-Molecule Contact in molecular junction via transport measurements	03/08/2021	14:30
11	Biswajit Panda	CBMS	Ro-vibrational spectral features and pressure broadening dynamics of dideutero-methane ( $^{12}\text{CH}_2\text{D}_2$ ) in the $\nu_9(\text{B}_2)$ fundamental band	03/08/2021	14:45
12	Debashish Paul	CBMS	Biomarker Hyaluronan on Colon Cancer Extracellular Vesicles: Biophysical Dissections	03/08/2021	15:00
13	Debayan Mondal	CMPMS	Shape Control of Emissive Properties of Mn-Doped CsPbBr <sub>3</sub> Nanocrystals	03/08/2021	15:15
<b>BREAK 15 Minutes</b>					
14	Dhiraj Tapader	TS	Density relaxation in conserved Manna sandpiles	03/08/2021	15:45
15	Dhrubajyoti Maji	CBMS	Structure and Dynamics of Glucose/Ethylene Glycol Cryoprotectant System: A Molecular Dynamics Study	03/08/2021	16:00
16	Didhiti Bhattacharya	CMPMS	Flexible bio-mechanical energy harvesters with colossal piezoelectric output ( $\sim 2.07$ V/kPa) based on transition metal dichalcogenides-PVDF nanocomposites	03/08/2021	16:15
17	Dipanjana Mukherjee	CBMS	Host assisted molecular recognition by human serum albumin: Study of molecular recognition-controlled protein/drug mimic binding in a microfluidic channel	03/08/2021	16:30

**DAY 2 : 04/08/2021**

18	Dusmanta Patra	A&C	Galactic plane survey at 325 MHz using Giant Meterwave Radio Telescope	04/08/2021	10:30
19	Ipsita Basu	CBMS	A Computational study of electrostatics and dynamics of PCSK9 protein towards controlling interactions with LDLR	04/08/2021	10:45
20	Jayanta Mondal	CBMS	Dielectric relaxation of a fully biodegradable glucose containing naturally abundant deep eutectic solvent: origin of timescales via experiment and molecular dynamics simulation.	04/08/2021	11:00
21	Kanchan Meena	CMPMS	Propagation Under the Barrier	04/08/2021	11:15

**BREAK 15 Minutes**

22	Krishnendu Sinha	CBMS	Regulation of RhoA GTPase by Phosphorylation of RhoGDI	04/08/2021	11:45
23	Monalisa Chatterjee	CMPMS	Quantum phase diagram of ferromagnetically coupled Shuistry-Sutherland Model	04/08/2021	12:00
24	Partha Nandi	TS	Evidence of a non-trivial Berry phase in lowest Landau levels	04/08/2021	12:15
25	Partha Pyne	CBMS	Alteration of water absorption in THz region traces the onset of fibrillation in proteins.	04/08/2021	12:30
26	Parushottam Majhi	CMPMS	Diffused metal-insulator transition in NdNiO <sub>3</sub> film grown on BaTiO <sub>3</sub> : Likely evidence of electronic Griffiths phase	04/08/2021	12:45

**LUNCH BREAK**

27	Prantik Nandi	A&C	A physical explanation of soft-excess emission of Seyfert 1 AGNs	04/08/2021	14:30
28	Prasun Boyal	CMPMS	Topological insulators in the 1T' phase of MX <sub>2</sub> (M=Mo,W; X=S,Se,Te) revisited	04/08/2021	14:45
29	Premashis Kumar	CBMS	Thermodynamics of Chimera	04/08/2021	15:00

30	Rahul Karmakar	CBMS	Long ranged order in ligand capped nanoparticles in presence of temperature difference	04/08/2021	15:15
31	Rituparna Mandal	TS	Cosmology in asymptotically safe quantum gravity	04/08/2021	15:30
<b>BREAK 15 Minutes</b>					
32	Samir Rom	CMPMS	A First-Principle Study of SrIrO <sub>3</sub> /LaCoO <sub>3</sub> Perovskite Oxide n-type Interface	04/08/2021	16:00
33	Sasthi Charan Mandal	CBMS	Quantum chemical studies on chelation in nano-bio conjugate between ZnO nanoparticle and cellular energy carrier molecules, ATP, ADP and AMP	04/08/2021	16:15
34	Sayan Routh	CMPMS	Experimental Observation of Exchange Bias in Antiferromagnetic Cr <sub>0.79</sub> Se due to Itinerant Weak Ferromagnetism at Low-temperature	04/08/2021	16:30
35	Shantonu Mukherjee	TS	Flux attachment and fractional statistics from electron-vortex interaction	04/08/2021	16:45

**DAY 3 : 05/08/2021**

36	Shashank Gupta	A&C	Genuine Einstein-Podolsky-Rosen steering of three-qubit states by multiple sequential observers	05/08/2021	10:30
37	Shiladitya Karmakar	CMPMS	Enhanced thermoelectric properties of double transition metal MXenes	05/08/2021	10:45
38	Shobhan Dev Mandal	TS	Effect of receptor clustering on E.coli chemotaxis: Sensing versus adaptation	05/08/2021	11:00
39	Shubhadip Moulick	CMPMS	Flicker noise in large area Graphene FET on lightly doped substrate	05/08/2021	11:15

**BREAK 15 Minutes**

40	Shubhrasish Mukherjee	CMPMS	Gate tunable strong photoresponse from a few layered MoS <sub>2</sub> transistor	05/08/2021	11:45
41	Siddhartha Biswas	A&C	Studies of Pre-main sequence stars in Galactic star-forming regions	05/08/2021	12:00
42	Sk Imadul Islam	CBMS	Excited-state Proton Transfer in Reverse Micelles: Effect of Temperature and a Possible Interplay with Solvation	05/08/2021	12:15
43	Sk Saniur Rahaman	CMPMS	Quantum phases and thermodynamics of a frustrated spin-1/2 ladder with alternating–Heisenberg rung interactions	05/08/2021	12:30
44	Snehamoyee Hazra	CMPMS	Effect of Schottky barrier height and morphology of nanostructured PZT on the output power density of piezoelectric nanogenerators	05/08/2021	12:45

**LUNCH BREAK**

45	Soumya Chakrabarti	TS	Cosmic acceleration in an extended Brans-Dicke-Higgs theory	05/08/2021	14:30
46	Subhajit Kar	A&C	Physical characteristics of Wolf Rayet Stars	05/08/2021	14:45

47	Sudip Majumder	CMPMS	Strong Magnon-Magnon Coupling in Two-Dimensional Diamond Shaped Ferromagnetic Nanodots Array	05/08/2021	15:00
48	Surya Narayan Panda	CMPMS	Crystal Structure Dependent Interfacial Spin Transparency in W/CoFeB Thin Films	05/08/2021	15:15
<b>BREAK 15 Minutes</b>					
49	Susmita Mondal	CBMS	Synthesis and spectroscopic characterization of a target specific nano-hybrid for redox- buffering in cellular milieu	05/08/2021	15:45
50	Swarnali Hait	CMPMS	Magnetoelectric properties of Ba and Y co-doped Bismuth Ferrite Nanoparticles	05/08/2021	16:00
51	Tanmoy Chakraborty	TS	Transport and fluctuations in mass aggregation processes: mobility- driven clustering	05/08/2021	16:15