



BOSE FEST 2013

PROGRAMME SCHEDULE

29 January 2013

9.00 – 10.00	Registration
10:00 -10:30	Inauguration and Director's Address
Session 1	Condensed Matter Physics and Material Science (I)
S No.	Session Chair : Dr. Priya Mahadevan
1.1	10:30 – 10:45 <i>A cation effect on magnetic properties of double perovskite compounds: From ferromagnetic Ca₂CrSbO₆ to antiferromagnetic Sr₂CrSbO₆</i>
	Santu Baidya
1.2	10:45 – 11.00 <i>Observation of a large Photo-response in a Single Nanowire (diameter ~30nm) of Charge Transfer Complex Cu:TCNQ</i>
	Rabaya Basori
11:00 – 11:30	Tea Break
1.3	11:30 – 11:45 <i>Electronic Structure of ZnS nanoplatelets</i>
	Ruma Das
1.4	11:45 – 12:00 <i>A new hat for the passivating species</i>
	Saikat Debnath
1.5	12:00 – 12:15 <i>Relativistic fermion on a ring: Energy spectrum and Persistent Current</i>
	Sumit Ghosh
1.6	12:15– 12:30 <i>Effect of inhomogeneities on magnetic properties of disordered FeAl alloys</i>
	Tanmoy Ghosh
1.7	12:30– 12:45 <i>Collective Magnetization Dynamics of Arrays of Ferromagnetic Nanoelements with Varying Shapes</i>
	Bipul K. Mahato
1.8	12:45-13.00 <i>First-Principles study of CaCu₃B₄O₁₂ (B=Cr, Co, Rh, Ir)</i>
	Swarnakamal Mukherjee



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13:00 – 14:30		Lunch and Poster Sessions – (P1 – P19)
Session 2		Condensed Matter Physics and Material Science (II)
S No.	Session Chair :	Dr. Anjan Barman
1.9	14:30 – 14:45	<i>Effect of the Spin-Twist Structure on the Spin-Wave Dynamics of the $Fe_{55}Pt_{45}/Ni_{80}Fe_{20}$ Exchange Spring Bilayers with varying $Ni_{80}Fe_{20}$ thicknesses</i>
		Semanti Pal
1.10	14:45 – 15:00	<i>Effect of Mn doping on structural properties of $Ni_2Mn_{1+x}Sn_{1-x}$ Heusler alloys: Experiment and Theory</i>
		Soumyadipta Pal
1.11	15:00 – 15:15	<i>Size Dependent Magnonic Spectra in Lithographically Patterned Ferromagnetic Nanodots size Dependent</i>
		Bivas Rana
1.13	15:15– 15:30	<i>Tunable and Anisotropic Spinwaves in Two-Dimensional Nanodot Lattices with Variable Lattice Symmetry</i>
		Susmita Saha
1.14	15:30 – 15:45	<i>Spin dynamics and topological excitations in quantum spin systems on low dimensional lattice</i>
		Subhajit Sarkar
15:45 – 18:00		Tea and Poster Sessions (P1 – P19)
18:00 – 20:00		Classical Performance by Pandit Dinanath Mishra and his Group.
20:00 hrs. onwards		Family Dinner

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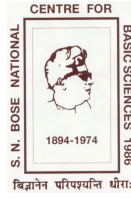
Session : 3		Chemical Biological and Macromolecular Science (I)
S No.	Session Chair :	Dr. Jaydeb Chakrabarti
2.1	10:00 – 10:15	<i>Spectroscopic Studies on the Biomolecular Recognition of Medicinally Important Ligands</i>
		Soma Banerjee
2.2	10:15 – 10:30	<i>Spectroscopic investigation on fluorescent probes in biologically relevant and engineered environments</i>
		Subrata Batabyal



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2.3	10:30 – 10:45	<i>Temporal Heterogeneity in Deep Eutectic Melts: Competition Between Domain Fluctuation and Solute Rotation</i>
		Anuradha Das
2.4	10:45– 11:00	<i>Effects of Trehalose on the Dynamics of Glycerol</i>
		Sandipa Indra
11:00 – 11:30		Tea Break
2.5	11:30 – 11:45	<i>Electron transport through molecules: a quantum master equation approach</i>
		Anirban Karmakar
2.6	11:45 – 12:00	<i>Studies On Biomolecular Recognition Using Ultrafast Laser Spectroscopic Techniques</i>
		Tanumay Mondol
2.7	12:00– 12:15	<i>Temperature dependent orientational relaxation in a room temperature ionic liquid : An all-atom simulation study</i>
		Tamisra Pal
2.8	12:15 – 12:30	<i>Spectroscopic Studies on Structure, Function and Dynamics of Biomolecules in Presence of Other Biologically Relevant Macromolecules</i>
		Surajit Rakshit
2.9	12:30-12:45	<i>Spectroscopic Studies on the Interactions of Biomimetics with Biological Macromolecules</i>
		Ranajay Saha
2.10	12:45-13:00	<i>Spectroscopic Studies on Photoreactivity of Inorganic Nanocrystals and Medicinally Important Organic Dyes</i>
		Soumik Sarkar
2.11	13:00 – 13:15	<i>Synthesis and Characterization of Multifunctional Nanoparticles and their interaction with Biological Macromolecules</i> Anupam Giri
1.2	13:15 – 13:30	<i>Possibility of Occurrence of Superconductivity Via Exciton Mechanism in Quasi One Dimensional Material</i> Soumi Roy Chowdhury



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13:30 – 14:30		Lunch and Poster Sessions – (P20 – P39)
Session 4		Astrophysics & Cosmology
S No.	Session Chair :	Dr. Sandip Chakrabarti
3.1	14:30 – 14:45	<i>Strong quantum violation of the gravitational weak equivalence principle by a non-Gaussian wave packet</i> Priyanka Chowdhury
3.2	14:45 – 15:00	<i>A complementary relation between classical bits and randomness in local part in the simulating singlet state</i> Subhadipa Das
3.3	15:00 – 15:15	<i>Fine-grained uncertainty relation and biased non-local games in bipartite and tripartite systems</i> Ansuman Dey
3.4	15:15– 15:30	<i>Study of H_2 formation on the interstellar dust grain using CTRW Monte Carlo Simulation</i> Wasim Iqbal
3.5	15:30– 15:45	<i>Detecting mixedness of quantum system using uncertainty relation</i> Shiladitya Mal
16:00 – 17:30		Tea and Poster Session (P 20 – P39)
17:45-20:00		Institute Cultural Programme
20:00 hrs. onwards		Family Dinner

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Session 5		Theoretical Physics
S No.	Session Chair :	Dr. Amitabha Lahiri
4.1	10:00 – 10:15	Information exchange and sorting in a community Biplab Bhattacharjee
4.2	10:15 – 10:30	<i>Topology of Complex Bridges inside Vibrated Dry Granular Media</i> Bandan Chakraborty
4.3	10:30 – 10:45	<i>Thermal Effective Potential in two and three dimensional Noncommutative spaces</i> Yendrembam Chaoba Devi



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4.4	10:45 – 11:00	<i>Proposed evidence for superconductors with a Lifshitz tri-critical point and a spatially-modulated Fulde-Ferrell-Larkin-Ovchinnikov-type order parameter</i>
		Arghya Dutta
11:00-11:30		Tea Break
4.5	11:30 – 11:45	<i>Holographic s -wave condensate with non-linear electrodynamics</i>
		Arindam Lala
4.6	11:45 – 12:00	<i>Fast Relaxation towards Strong Phase Separation (SPS): Hard Core Particles Sliding on a Fluctuating Surface</i>
		Sukla Pal
4.7	12:00- 12:15	<i>Gauge invariances of higher derivative Maxwell-Chern-Simons field theory.</i>
		Biswajit Paul
4.8	12:15 – 12:30	<i>Shaking-induced crystallization of dense sphere packings</i>
		Dattatray P. Shinde
4.9	12:30– 12:45	<i>Weak coupling loop perturbation theory in SU(2) lattice gauge theory</i>
		Sreeraj T.P
12:45 – 13:00		Closing remarks by Deans and Director
13:00 – 14:15		Lunch Break
14:15- 14:25		Photo Fest - Introduction & Felicitation
14:30 - 15:10		Slide Show on “People” by Dr. S. Sarkar, SINP
15:10- 15:30		“Journey to Sandakphu” by Snehasis DasChakraborty, SNBNCBS
15:30- 16:00		Slide Show on “Life” by Dr. P.S Deo, SNBNCBS
16:00 - 16:10		Interactive Session
16:10- 16:50		Prize Distribution
16:50- 17:20		Tea and Refreshments
17:20- 17:35		“Prejudice: by Members of Photography Club, SNBNCBS
17:35 - 17:50		Performance: “A Message” by Pratik Tarafdar, SNBNCBS
17:50 hrs. onwards		Film Screening