Research Scholar Day (Dept. of Physics) - 2017

Program schedule

Date/ Day: 8th October 2017 (Sunday) Venue: L-17 (Lecture hall complex)

9:00 - 9:15	Inauguration: Prof. Indranil Manna
9:15 - 10:00	High Tea

Session - I, Chair: Prof. V. Subrahmanyam

10:00 - 10:25	Annwesha Dutta	Stochastic Thermodynamics and Kinetics of a Molecular Machine: a case study
10:25 - 10:50	Archan Mukhopadhyay	Strict Physical Chaos in Evolutionary Games
10:50 - 11:15	Rabeet Singh	Adiabatic connection in density functional theory

11:15 - 11:45	Tea Break
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Session - II, Chair: Prof. T. Sarkar

11:45 - 12:10	Ashutosh Kumar Singh	Nonlinear and anisotropic Photoconductivity in Graphene
12:10 - 12:35	Dipanjan Dey	Gravitational collapse and Naked Singularity
12:35 - 13:00	Aditya Mehra	Galilean Conformal Gauge theories

13:00 - 15:30	Lunch and Poster session
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Session - III, Chair: Prof. A. K. Gupta

15:30 - 15:55 Utso Bhattacharya Fate of Bulk Boundary Correspondence in Out of Equilibrium Topological Quantum Systems
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15:55 - 16:20	Rajan Kumar Singh	Motion Transduction Using Graphene Resonator
16:20 - 16:45	Anil Kumar Singh	STM/S study of electronic inhomogeneity evolution with gate voltage in graphene: role of screening and charge-state of interface defects

16:45 - 17:00	Tea Break	

Session - IV, Chair: Prof. A. K. Jha

17:00 - 17:25	Suchita	Temporal coherence of continuous wave sources of different spectral characteristics
17:25 - 17:50	Pankaj Singh	PCA on spatio-temporal fluorescence images for diagnosis of cervical cancer
17:50 - 18:15	Anuj Ram Baitha	Radiation belts and particle diffusion in a plasma confined by a dipole magnet

18:15	Concluding Remarks
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List of Posters

S. No.	Title	Author
1	Josephson Coupling in the Dissipative State of a Thermally Hysteretic	
•	Micro-SQUID	Sourav Biswas
2	Exact results in Floquet coin toss for driven integrable models	Somnath Maity
3	Imaging of low dimensional melting in Ba1-xKxFe2As2 superconductor	Ankit Kumar
4	Remote detection of quantum decohering process and quantum state transfer	Saikat Sur
5	Mixed state dynamical quantum phase transition and emergent topology	Souvik Bandyopadhyay
6	Large D perturbative solutions of the Einstein-Maxwell system in presence of cosmological constant	Poulomi Nandi
7	Helium finger in intra-cluster medium	Shubhadeep Sadhukhan
8	Evidence of magneto-structural coupling affecting magnetic anisotropy in a cobalt nano-composite	Kamalika Nath
9	Kinetic energy and flux in forced rotating turbulence	Manohar
10	Loss less guiding and focusing of plasma (ion) beams for creating submicron structures	Sanjeev Kumar Maurya
11	Characterisation of wetting hysteresis of atomically heterogeneous systems	Sanghamitro Chatterjee
12	Measuring, Engineering and Freezing Coherence in Room Temperature Atoms	Arif Warsi Laskar
13	Evolution of Cr magnetism with P doping in BaCr2As2	Venus Rai
14	Error estimates in universal backprojection based photoacoustic tomography	Prabodh Kumar Pandey
15	AN ALGORITHMIC APPROACH TO COMPUTATION OF WILSON COEFFICIENTS	Supratim Das Bakshi
16	Hannay Angle for the van der Pol oscillator	Rohitashwa Chattopadhyay
17	Cervical precancer detection with polarized light based hand held device	Bharat Lal Meena

18	Effect of electron-hole asymmetry on optical conductivity in 8-P mmn borophene	Sonu Verma
19	Left-Right Intermediate Scales: Where do we stand?	Rinku Maji
20	Enhanced infra-red transmission through plasmonic hole array embedded with SU-8 micro-domes	Raghwendra Kumar
21	Enhanced emission from nanodiamond nitrogen-vacancy centers by columnar thin films of silver	Rajesh Kumar
22	Holographic entanglement negativity conjecture for adjacent intervals in AdS3/CFT2	Sayid Mondal
23	Controlling Strong Coupling of Surface plasmon resonances with molecular resonances	Prince Gupta
24	Critical wavelength in the transmission spectrum of directional coupler	Garima Bawa
25	Fluorescence and its Decay Time in Dye-Doped Metallo-Dielectric Photonic Crystals with Different Gold Infiltration	Dipak Rout
26	Analyzing Guided Resonances in Asymmetric Photonic Crystal Slab	Ummer KV
27	Effect of Doping of Aliovalent Ions on Tailoring the Electrical Properties of Magnetoelectric Gallium Ferrite	Vijay Singh
	Non-Fermi-Liquid Behavior at anti-Ferromagnetic quantum critical point in heavy	
28	fermion system Ce(Cu1-xCox)2Ge2	Rajesh Tripathi
29	Tensionless Strings	Pulastya Parekh
30	RIMS and CMA Construction for Coincidence Experiment to Study Fragmentation Dynamics of Molecular and Cluster Target	Rohit Tyagi
31	1.7 MV Tandetron Accelerator and RBS facility @ IIT Kanpur	Rohit Tyagi
32	Sink dynamics of aqueous drops on lubricating fluid coated slippery surfaces	Meenaxi Sharma
33	Physical properties of CeTiO3 thin film fabricated by pulsed laser deposition	Pramod Ghising
34	Temperature Dependent Magnetoresistance Measurements in Si/PtSi/Fe/Ta Heterostructure	Ravinder Kumar
35	Non-Abelian Vector Boson Dark Matter with a Leptonic Connection	Himadri Roy
36	Studying the magnetism in EuB6 with Magneto Optic Imaging technique	Dibya Jyoti Sivananda

		Sensing vibrations of a piezo crystal oscillator surface, using time series of	Dibya Jyoti
37	7	tunneling current .	Sivananda