

Lectures / Talks / Seminars

at the Institute

Physics

1. Nabamita Banerjee Plane Wave/Super Yang-Mills Duality
2. Suvankar Dutta On Euclidean and Noetherian Entropies in AdS Space
3. Bindusar Sahoo Extremal Black Holes in the presence of Higher Derivative Corrections
4. Priyotosh Bandopadhyaya Asymptotic Nature in Non-Abelian Gauge Theory
5. Rishikesh Vaidya $b \rightarrow s + \gamma$ in Supersymmetry without R-parity
6. J. S. Bagla Observational Constraints on Models of Reionsation
7. K. Subramanian Physics of the Cosmic Microwaves Background Radiation
8. S. S. Deshingkar Evolution of Binary Black Hole Spacetimes
9. A. K. Mishra Metal-Insulator transition in an adsorbed layer at an Electrochemical Interface
10. A. K. Mishra Ortho-Fermi Quantum Statistics and its applications to the Infinite- U Hubbard Model
11. Arnab Kr. Ray Hydraulic/Shock Jumps in Proto-Planetary Disks
12. H. K. Jassal The Paths of Quintessence
13. Soumitra SenGupta Stability and hierarchy problems in a back-reacted Randall-Sundrum braneworld

14. Sumathi Rao Free electron model
15. Prasenjit Sen Band Theory
16. T. P. Pareek Phonons
17. Prasenjit Sen Electron- electron interactions
18. Sumathi Rao/
T. P. Pareek Mesoscopics
19. M. Gopalkrishnan Stochastic processes
20. Prasenjit Sen Nanoscale materials
21. Manoj Gopalkrishnan Random Walk
22. Manoj Gopalkrishnan Non-equilibrium Stat. Mech.
23. Resham Sarkar Particle detectors in a high-energy
collider
24. T. Roy Choudhury Studying Cosmic Reionisation with
Recent Observations
25. Subir K. Das Critical Dynamics in Fluids: Verifying
Theory through Simulations
26. R. Nityananda Deconvolution
27. M. K. Parida Neutrino Mixing Angles and Leptonic CP
Violation from Quark Mixing Matrix
28. Shivam Ghosh Association and rebinding of ligands
to a spherical cell surface
29. Nishikanta Khandai Collisions, Hyperfine transition of
Hydrogen and the Spin Temperature

30. Jayajit Das Early and late signaling events during T cell activation
31. Jayanti Prasad Early Supersymmetric Cold Dark Matter Substructure
32. J.S. Bagla Revisiting the Baryon Fractions of Galaxy Clusters
33. Rajarshi Ray QCD Thermodynamics: Lattice and PNJL model
34. Tapas Das See a Black Hole on a Shoestring
35. Subharthi Ray Effects of the non-circular beams in the CMB power spectrum
36. L. Sriramkumar Synchrotron radiation from Crab: A constraint on Lorentz violation beyond the Planck scale!
37. Monodeep Chakraborty Study of the one dimensional Holstein model using the augmented space approach
38. Monodeep Chakraborty The study of electronic and magnetic properties of the partially disordered pseudo-Heusler alloy $Co_2Fe_{0.4}Cr_{0.6}Al$: an augmented space approach
39. S. S. Deshingkar Inspiral, merger and ring-down of equal-mass black-hole binaries
40. K. Narayan Cosmologies with null Bing-Bang singularities and their gauge theory duals
41. Jayajit Das Early and late signaling events during T cell activation
42. L. Sriramkumar Synchrotron radiation from Crab: A constraint on Lorentz violation beyond the Planck scale!
43. S. N. Khanna Superatoms as the Building Blocks of Novel Nano-assembled Materials

44. L. Sriramkumar Synchrotron radiation from Crab: A constraint on Lorentz violation beyond the Planck scale!
45. Paramita Barai Modeling the Power Evolution of Classical Double Radio Galaxies over Cosmological Scales
46. Biswajoy Brahmachari Zee model of neutrino mass: In different flavors
47. S. Shankaranarayanan Entanglement as the source of black-hole entropy
48. Debaprasad Maity Stability analysis of the Randall-Sundrum brane world with bulk scalar field
49. Otto Kong Towards the Theory of Special Quantum Relativity
50. A. Gopakumar Inspiral dynamics of compact binaries: its applications and implications
51. Gianluca Calcagni Ghost conditions for Gauss-Bonnet cosmologies
52. Jayanti Prasad Superclusters of galaxies in the 2dF redshift survey
53. J. S. Bagla Looking for Dark Matter
54. Niklas Beisert The S-matrix of AdS/CFT
55. Nishikanta Khandai An Energy-Conserving Formalism for Adaptive Gravitational Force Softening in SPH and N-Body Codes
56. Arijit Bhattacharyay Modeling active motion in living systems
57. Arunansu Sil Thermal inflation and the flux of primordial monopoles

- 58. D. P. Roy Prospects of charged Higgs boson discovery at colliders
- 59. Sanjib Kr. Agarwalla Neutrino mass hierarchy and Θ_{13} with a magic
baseline beta-beam experiment
- 60. S. S. Deshingkar Kicks from Black-Hole Binaries
- 61. P. K. Mohanty Heat Conduction in one-dimension: Old wine in a new bottle
- 62. S. K. Gupta Long lived staus at the LHC
- 63. Peter West A lecture series on E11 and the Symmetries of M-Theory
- 64. S. T. Petcov Leptogenesis and Low Energy CP-Violation in
the Lepton Sector
- 65. Werner Rodejohann Structure of Neutrino Mixing and Quark-Lepton
Complementarity