



Programme Schedule
Associates' Day, 31st May-1st June 2012

MAY 31st, 2012

09.00 – 09.30 -	Registration
09.30 – 10.00 -	Inauguration by Dean (Faculty)
Chairperson – Technical Session I	Rabin Banerjee (SNBNCBS) 10:00 – 13:00
10.00 – 10.30 -	Pradip Mukherjee (Department of Physics, Barasat Government College Barasat) I.1 <i>Hamiltonian analysis of gauge invariance in higher derivative systems</i>
10.30 – 11.00 -	Sharvari Nadkarni Ghosh (Department of Theoretical Sciences, SNBNCBS) I.2 <i>Non-linear density-velocity relation from phase space dynamics</i>
11.00 – 11.30 -	Tea break & Group photo session.
11.30 – 12.00 -	Jyotipratim Ray Chaudhury (Department of Physics, Katwa College) I.3 <i>Quantum stochastic dynamics in presence of a rapidly oscillating space-dependent time-periodic force</i>
12.00 – 12.30-	Sunandan Gangopadhyay (West Bengal State University, Barasat) I.4 <i>Voros product, noncommutative Schwarzschild black hole and Komar energy</i>
12.30 – 13.00-	Tae-Hun Lee (Theory Division, Saha Institute of Nuclear Physics) I.5 <i>Particle with non-Abelian charge: classical and quantum.</i>

13.00 – 14.00–

Lunch at Krishnachura

**Chairperson –
Technical Session II**

**Subhrangshu Sekhar Manna (SNBNCBS)
14.00 – 17:30**

14.00 – 14.30–

Mukul Kabir (Department of Condensed Matter Physics and
Material Sciences, SNBNCBS)

II.1 *Topological defect activation and magnetism in carbon
nanostructures*

14.30 – 15.00–

Soumendu Datta (Department of Condensed Matter Physics and
Material Sciences, SNBNCBS)

II.2 *Effects of shape and composition on the properties of CdS
nanocrystals*

15.00 – 15.30–

Madhuparna Karmakar (Department of Theoretical Sciences,
SNBNCBS)

II.3 *Electrostatic Potential in High-Temperature Superconducting
Cuprates: Extended Ginzburg-Landau Theory*

15.30 – 16.00–

Tea Break

16.00 – 16.30 –

Bipul Rakshit (Department of Condensed Matter Physics and
Material Sciences, SNBNCBS)

II.4 *Absence of rippling in graphene under biaxial tensile strain*

16.30 – 17.00 –

Bijay Singh (Department of Geology, Nilamber - Pitamber
University)

II.5 *Geomaterial characterization using optical spectroscopic
techniques for Gem diagnostics and origin determination.*

17.00 – 17.30 –

Molly De Raychaudhury (Department of Physics, West Bengal
State University, Kolkata)

II.6 *Electronic and magnetic properties at low dimensionality*

19.00 – 21.00–

Director's Dinner at Krishnachura

June 1st, 2012

**Chairperson –
Technical Session III**

**Pratip Kr. Mukhopadhyay (SNBNCBS)
09:30 – 13:15**

09.30 – 10.00 –

Mrinal Pal (CMERI, Durgapur)
III.1 *Magnetic Nanobiocomposites*

10.00 – 10.30–

B. Rajini Kanth (Department of Science and Humanities,
TKR College of Engineering and Technology)
III.2 *Study on ferromagnetic shape memory alloys for the sensors
and actuators applications*

10.30 – 11.00–

Sudeshna Samanta (Department of Condensed Matter Physics and
Material Sciences, SNBNCBS)
III.3 *Observation of resistance fluctuations in oxide thin films and
single*

11.00 – 11.30 –

Tea Break

11.30 – 12.00 –

Kaustuv Das (Department of Condensed Matter Physics and
Material Sciences, SNBNCBS)
III.4 *Focus Ion Beam-A Tool for Nanolithography*

12.00 – 12.30–

Gobinda Gopal Khan (Department of Condensed Matter Physics and
Material Sciences, SNBNCBS)
III.5 *Room temperature ferromagnetism in pure and nonmagnetic
doped luminescent oxide semiconductor nanowires: role of
intrinsic defects*

12.30 – 13.00–

Goutam Mukherjee (Department of Physics, Bidhan Chandra
College, Asansol)
III.6 *Conservative self-organized extremal model for wealth
distribution*

13.00 – 13.15 –

Concluding remarks by Prof. Gautam Gangopadhyay

13.15 –

Lunch at Krishnachura
