



# ASSOCIATES DAY

## VASP, EVLP

*20 December 2013*

*Venue - Fermion*

### Programme Schedule

- 09:45 – 10:00 hrs. - Inauguration
- 10:00 – 10:30 hrs. - Sudhaker Upadhyay  
**BRST symmetry and W-algebra in higher derivative models**
- 10:30 – 11:00 hrs. - Partha Sarathi Pal  
**Geometry Variation of Accretion Flows of Compact Objects during their Outbursts**
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- 11:00 – 11:30 hrs. - **Tea Break**
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- 11:30 – 12:00 hrs. - Suman Ghosh  
**Entanglement entropy and area revisited**
- 12:00 – 12:30 hrs. - Mainak Sadhukhan  
**Quantum Chaos in the H<sub>2</sub> molecule under strong, time-dependent magnetic fields**

- 12:30 – 13:00 hrs. - Swastika Bhattacharya (Chatterjee)  
**Rayleigh instability in Cu-nanowire : A MD study**
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- 13:00 – 14:00 hrs. - **Lunch Break**
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- 14:00 – 14:30 hrs. - Bipul Rakshit  
**Indirect to direct bandgap transition under uniaxial strain in layered ZnO**
- 14:30 – 15:00 hrs. - Tilak Das  
**A DFT based study on spin-state crossover of Co in BiCoO<sub>3</sub> thin films**
- 15:00 – 15:30 hrs. - V. V. Ravi Kishore  
**Origin of the observed ferroelectricity in metallic LiOsO<sub>3</sub>**
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- 15:30 – 16:00 hrs. - **Tea Break**
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- 16:00 – 16:30 hrs. - Bipul Das  
**Low Frequency Electrical Noise in Single Ni Nanowire**
- 16:30 – 17:00 hrs. - Nilotpall Ghosh  
**Observation of ZBCP above  $T_C$  at Au/Y<sub>1</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7- $\delta$</sub>  Heterostructure with a Nano Hole: A possible evidence for the Cooper Pairs above  $T_C$**
- 17:00 – 17:05 hrs. - **Concluding remarks**
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