

**SYMPHY 2011**  
**Saturday, January 15, 2011**

**PROGRAM**

08:30 Distribution of symposium material and lunch coupons for registered participants

**Session 1**

**Chair: Sushant Raut**

<b>Time</b>	<b>Title</b>	<b>Speaker</b>
09:00	ZnO nanowires: Fabrication and utilization in electronic devices	Ajay Kushwaha
09:20	Standard Model of particle physics with four chiral generations	Debasish Borah
09:40	Study of laser action in functionalized opal Photonic crystal	Sunita Kedia
10:00	Ab initio real space approach to electronic structure calculations in solids	Ravindra Shinde

10:20 **TEA BREAK**

**Session 2**

**Chair: TBA**

<b>Time</b>	<b>Title</b>	<b>Speaker</b>
10:40	Probing Lorentz invariance at EeV energy	Reetanjali Moharana
11:00	Activities in the low temperature physics group	Anil Kumar Yadav
11:20	Resonances in heavy ion collision experiments at Relativistic Heavy Ion Collider at Brookhaven National Laboratory	Prabhat Pujahari
11:40	Spectroscopic studies of large sheets of grapheme oxide and reduced grapheme oxide monolayers prepared by Langmuir-Blodgett technique	D S Sutar

12:00 **Invited Talk:** Prof. Deepak Dhar (TIFR, Mumbai): Pattern formation in growing sandpiles

13:00 **Lunch (Gulmohar Cafeteria)**

### Session 3

**Chair: Pawan Kumar**

Time	Title	Speaker
14:30	The physics potential of a 2540 km superbeam long baseline experiment	Suprabh Prakash
14:50	Magneto-plasmonic Fe <sub>3</sub> O <sub>4</sub> @Ag core-shell nanoparticles for multimodal contrast agent	Jeotikanta Mohapatra
15:10	Generalized Parton Distributions in longitudinal and transverse position space	Ravi Manohar
15:30	Research aspects of carbon nanotubes	Neha Kulshrestha
15:50	Coarsening in polycrystalline material using Quaternions	Santidan Biswas
16:10	NMR research at Physics department, IIT Bombay	Tushar K Dey

16:30 **Invited talk:** Prof. Sandip Trivedi (TIFR, Mumbai): Accelerating universes in String theory, and Einstein's dream

17:30 **Poster session + High Tea (KRESIT Foyer)**