



Kick-off Workshop for MPG-India  
Partnership group



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**May 15-16, 2017, Institute of Physics, Bhubaneswar -751005, India**

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**“Tailoring quantum materials using thin film techniques”**

**May 15 (Institute of Physics Lecture Hall)**

- 8.30-9.00: Registration

**Session -1**

- 9.00-9.10: Welcome Address by Prof. Sudhakar Panda (Director, IoP)
- 9.10-9.20: Address by Prof. Hidenori Takagi (Director, MPI Stuttgart)
- 9.20-9.230: Address by Dr. Debakanta Samal, IoP

**Session -2**

- 9.30-10.30: Hidenori Takagi (Director, MPI Stuttgart)
- 10.30-11.00: High Tea and Snacks
- 11.00-11.35: “Intermediate stages of surface state formation in pulsed laser deposited topological insulator thin films ” P S Anil Kumar, IISc Bangalore
- 11.35-12.10: “Epitaxial growth of topological electronic materials” Hiro Nakamura (MPI Stuttgart)
- 12.10-12.45: “Dirac and Weyl Semimetals as seen by STM - Present and Future” Andreas Rost (MPI Stuttgart)
- 12.45-14.00: Lunch

### **Session -3**

- 14.00-14.35: “Investigation and Design of oxide Heterostructures: First-principles study” Tanusri Saha-Dasgupta (S N Bose National Centre for Basic Science, India)
- 14.35-15.10 “Atomic layer engineering: A viable approach to manipulate the electronic properties of transition metal oxides at unit cell level” Debakanta Samal, IoP Bhubaneswar
- 15.10-15.40: Tea/Coffee break
- 15.40-16.15: “ Imaging interplay between magnetic and superconducting fluctuations above  $T_c$  in doped iron arsenide superconductors ” Satyajit Banerjee, IIT Kanpur
- 16.15-16.50: “Deriving bonding properties in position space from ab-initio calculations” Ulrich Wedig (MPI Stuttgart)
- 16.50-17.20: Closing Remarks
- 19.30-22.30: Dinner