

WORKSHOP IN THEORETICAL PHYSICS

Ramakrishna Mission Vivekananda University (Declared by Govt. of India as Deemed to be University under Section 3 of the UGC Act, 1956)

December 18-21, 2017

This is a 4-day long unique and intense workshop in the areas of condensed matter physics, gravitation, nonlinear dynamics, statistical physics, and yuantum computation. We envisage a target group of M.Sc., 3rd year B.Sc. and Ph.D. students. There will be four 1-hour long talks per day, two in the morning and two in the afternoon, and a 1.5-hour long interactive evening talk as part of a special 5-lecture course by an eminent speaker.

SPEAKERS

- ARVIND (IISER, Mohali) Quantum information and quantum computation
- Mustansir BARMA (TCIS, Hyderabad) Away from the average: the physics of fluctuations
- Shamik GUPTA (RKMVU, Belur Math) Statistical physics of synchronization
- Pankaj JOSHI (TIFR, Mumbai) Can we see a black hole?
 - Collapse of massive stars: black holes and naked singularities
- Mandar PATIL (RKMVU, Belur Math) *Gravitational waves*
- Ramakrishna RAMASWAMY (JNU, New Delhi) *Synchronization in dynamical systems*
- Krishnendu SENGUPTA (IACS, Kolkata) Quantum quench dynamics
- Vijay SHENOY (IISc., Bangalore) *Topological insulators*

SPECIAL EVENING SPEAKER

• N. MUKUNDA (IISc., Bangalore) – *Dirac theory of constrained dynamical systems*

Interested candidates

may apply by **November 22, 2017** by filling in the online application form available at http://phy.rkmvu.ac.in with personal and academic details. About **50** students will be selected, of which **25** will be provided accommodation. Registration fee: Rs. 500 for those requiring accommodation and Rs. 250 for others. In addition, the workshop is open to all, subject to space limitation of the lecture auditorium. *No travel support will be provided.*



ORGANIZERS Abhijit Bandyopadhyay, RKMVU Debashis Gangopadhyay, RKMVU Shamik Gupta, RKMVU

> CONTACT (033) 2654 9999 theophysrkmvu@gmail.com

VENUE

Department of Physics Ramakrishna Mission Vivekananda University Belur Math, Howrah 711202, West Bengal http://phy.rkmvu.ac.in/

