Random Matrix Theory and Applications

Indian Institute of Science campus, Bangalore
17 January - 1 February, 2012

Random Matrix Theory has found usage in a wide variety of problems in mathematics and physics. The purpose of this meeting is to bring together a diverse group of mathematicians and physicists working in some of the many areas that connect with random matrix theory. The program will consist of a **school (17 - 25 Jan)** with introductory lectures on random matrix theory in both mathematics and physics at a level accessible to graduate students and post-docs. It will be followed by a **conference (27 Jan - 1 Feb)** that will consist of a broader range of topics to highlight the latest research developments.

SCHOOL LECTURES

Random matrix theory in quantum transport - C.W.J. Beenakker (Leiden)
Random matrix type scaling limits - K. Johansson   (Stockholm)
Random matrix theory and number theory - J. Keating   (Bristol)
Matrix models and string theory - M. Marino (Geneva)
Random matrix theory and representation theory – N. O'Connell (Warwick)
Introduction to random matrix theory – J.-B. Zuber (Paris)

CONFERENCE SPEAKERS

C. W. J. Beenakker (Leiden, Netherlands)
P. Biane (Marne-la-Vallée, France)
A. Bose (ISI, Kolkata)
E. Brezin (ENS, Paris, France)
P. Le Doussal (ENS, Paris, France)
N. Ercolani (Arizona, USA)
Y. Fyodorov (Nottingham, UK)
S. R. Jain (BARC, Mumbai)
V. Kazakov (ENS, Paris, France)
A. Lakshminarayan (IIT,Chennai, India)
G. Mandal (TIFR, Mumbai, India)

S. Minwalla (TIFR, Mumbai, India)
M. A. Nowak (Cracow, Poland)
N. O'Connell (Warwick, UK)
A. Pandey (JNU, Delhi)
T. Sasamoto (Chiba, Japan)
G. Schehr (Orsay, France)
P. Shukla (IIT, Kharagpur, India)
X. Viennot (Bordeaux, France)
B. Virag (Toronto, Canada)
P. Vivo (ICTP, Trieste, Italy)
O. Zeitouni (Weizmann, Israel)

ORGANIZERS

Justin David, Abhishek Dhar, Rajesh Gopakumar, H. R. Krishnamurthy, Manjunath Krishnapur,
Satya Majumdar, Govind Menon and Sanjib Sabhapandit

Satya Majumdar (LPTMS, France) will deliver the **Subrahmanyan Chandrasekhar lectures** on **"*Top Eigenvalue of a Random Matrix: A tale of tails*"** during Jan 27-30, 2012 in the "Auditorium, Physical Sciences Building", IISc campus, Bangalore.