



INTERNATIONAL  
CENTRE *for*  
THEORETICAL  
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

WORKSHOP  
ON  
**APPLIED  
MATHEMATICS**  
in

**JANUARY 1 – 3, 2010**

The Workshop on New Directions in Applied Mathematics is a satellite meeting of ICTS Inaugural Event. It will focus on highlighting some novel themes in applied mathematics that have dominated the applied mathematics landscape in recent years and are only beginning to take roots in India. These have been spurred by recent developments in natural sciences such as statistical mechanics and chemical dynamics, unique computational problems introduced by very large data sets, and problems arising from engineering disciplines of communications and computer science that are defining the tenor of the future through revolutions such as the internet. These have not only thrown open new issues, but whole new paradigms, spawning entirely new subject areas: complex systems, random graphs, analysis in very large dimensional spaces, to mention a few.

The Workshop will bring together some of the leading researchers in these frontiers to give a bird's eye view of their respective specialties and a roadmap for the future. It is hoped that this will spur some young Indian applied mathematicians to venture into such uncharted territories that have a lot of intellectual adventures to offer.

Faculty and students interested in participating in this workshop should apply online by clicking on the "Register" link at the following address: <http://www.icts.res.in/program/ndam>. Selected participants will be reimbursed their travel expense (as per Government of India norms) and provided local hospitality. Local participants are also required to formally apply.

**NEW DIRECTIONS**

**ORGANIZING COMMITTEE**

V. S. Borkar (TIFR)  
G. Rangarajan (IISc)  
P. N. Srikanth (TIFR-CAM)

**SPEAKERS**

Venkat Anantharam (University of California, Berkeley)  
Probal Chaudhuri (Indian Statistical Institute, Kolkata)  
Fan Chung Graham (University of California, San Diego)  
George Gonthier (Microsoft Research)  
Piotr Indyk (MIT)  
Chris Jones (UNC, Chapel Hill)  
Govind Menon (Brown University)  
Marc Mezard (University of Paris, Sud)  
Kavita Ramanan (Carnegie Mellon University)  
Luc Tartar (Carnegie Mellon University)  
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**Deadline** for receiving applications:  
**December 1, 2009**