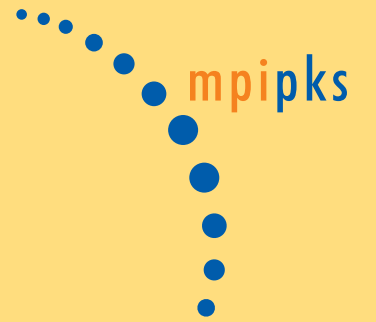




International Workshop on
**Mathematical Physics of Complex Networks:
From Graph Theory to Biological Physics**

May 14 - 18, 2012

Scientific coordination



Charo Del Genio
MPI für Physik komplexer Systeme
Dresden, Germany

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Houston, USA

Organisation
Sabine Strecker

Over the past decade complex networks have received considerable attention in the scientific community. The new ideas and methods that are currently being developed bring together results from a wide range of disciplines of mathematics and physics, including graph theory, dynamical systems theory, group theory, number theory, combinatorics, and random matrix theory. Furthermore, novel mathematical ideas are being inspired by concepts from the social and biological sciences. Therefore, the interaction of scientists that study complex networks in different disciplines can provide a much-needed confluence of concepts and tools to further the development of all these diverse thematic areas.

This workshop will bring together an interdisciplinary mix of many of the world's leading researchers in the field of complex networks. The event aims to promote the development of analytic results and computational methods and to connect those results to important real world applications. The workshop will expose the participants to different methods and points of view on the broad topic of complex networks, thereby providing them with approaches they were potentially unfamiliar with and that they might use to the benefit of their research.

List of invited speakers (*to be confirmed).

A.-L. Barabási (USA)
M. Barthélemy (FR)
S. Bornholdt (DE)
F. Chung (USA)*
A. Diaz-Guilera (ES)
S. Dorogovtsev (PT)

B. Drossel (DE)
P. Erdős (HU)
P. Grassberger (CAN)
C. Greenhill (AUS)
T. Gross (UK)
A. Hartmann (DE)

S. Jalan (IN)
K. Josić (USA)
G. Korniss (USA)
J. Kurths (DE)
S. Lehmann (DK)
M. Marsili (IT)

A. Mukherjee (IN)
F. Peruani (FR)
S. Redner (USA)*
L. Székely (USA)
M. Timme (DE)
Z. Toroczkai (USA)

Applications for participation and poster contributions are welcome and should be made by using the application form on the event's web page (please see URL below). The number of attendees is limited. The **registration fee** for the workshop is **120 €** and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute for the Physics of Complex Systems. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

Deadline for registration is February 15, 2012.

For further information please contact:

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