



מכון ויצמן למדע

WEIZMANN INSTITUTE OF SCIENCE

STATISTICAL MECHANICS DAY IV

June 23, 2011

09:00 to 17:30

Weizmann Institute of Science

Physics Building, Weissman Auditorium

- 09:00 – 09:30 *Coffee*
- 09:30 – 09:40 Opening Remarks – David Mukamel
- 09:40 – 10:00 Joel Lebowitz, Rutgers University
Phase diagram of a generalized ABC model on the interval
(joint work with J. Barton and E. Speer)
- 10:00 – 10:20 Itamar Procaccia, Weizmann Institute
The elusive static length characterizing the glass transition
- 10:20 – 10:40 Shlomo Havlin, Bar-Ilan University
Percolation of Network of Networks
- 10:40 – 11:00 Amnon Aharony, Ben-Gurion University and TAU
Multiferroics
(joint work with S. Matityahu and O. Entin-Wohlman)
- Coffee Break*
- 11:30 – 11:50 Martin Evans, University of Edinburgh
Diffusion with stochastic resetting
- 11:50 – 12:10 Ido Kanter, Bar-Ilan University
Nonlocal Mechanism for Synchronization of time delay
networks
- 12:10 – 12:30 Sahar Rahav, Technion
Extracting work from stochastic pumps
- 12:30 – 12:50 Yariv Kafri, Technion
Energy fluctuations in thermally isolated driven systems

Lunch Break

- 14:00 – 14:20 Michael Aizenman, Princeton University
Resonant delocalization of the eigenfunctions of random
Schrodinger operators on tree graphs
(joint work with S. Warzel)
- 14:20 – 14:40 Ofer Zeitouni, Weizmann Institute
Einstein relation on random trees
- 14:40 – 15:00 Armin Bunde, University of Giessen
Universal Scaling Features in Precipitation and River Flows
(joint work with M. Bogachev)
- 15:00 – 15:20 Isaac Balberg, Hebrew University
The tunneling-percolation staircase
- Coffee Break*
- 15:50 – 16:10 Ofer Biham, Hebrew University
Competition, feedback and fluctuations in genetic regulatory
modules
- 16:10 – 16:30 David Andelman, Tel-Aviv University
The Physics and Applications of Block Copolymer Films
- 16:30 – 16:50 Nadav Shnerb, Bar-Ilan University
Neutral dynamics and family statistics
- 16:50 – 17:10 Tridib Sadhu, Weizmann Institute
Long-range steady-state density profiles induced by localized
drive.
- 17:10 – 17:30 Martin Fraas, Technion
The geometry of dissipative response in dephasing open
systems

Organizing Committee :
Gregory Falkovich
David Mukamel

Coordinating Secretary :
Perla Zalcberg – perla.zalcberg@weizmann.ac.il