



מכון ויצמן למדע

WEIZMANN INSTITUTE OF SCIENCE

STATISTICAL MECHANICS DAY VII

Wednesday 26 November 2014

09:30 to 16:20

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 Satya Majumdar, University of Paris, Orsay
Universal Order and Gap Statistics of Critical Branching
Brownian Motion.
- 10:00 – 10:20 Yair Shokef, Tel-Aviv University
Confinement Effects on the Jamming Transition in Kinetically-
Constrained Models.
- 10:20 – 10:40 Yariv Kafri, Technion
Pressure in non-equilibrium (active) systems.
- 10:40 – 11:00 Baruch Meerson, Hebrew University
Smoluchowski with interactions.
- Coffee Break*
- 11:30 – 11:50 Efi Efrati, Weizmann Institute
Chiral self-assembly: Depletion interaction with a twist.
- 11:50 – 12:10 Eytan Katzav, Hebrew University
Yield-Optimised Superoscillations.
- 12:10 – 12:30 Christopher Joyner, Weizmann Institute
A discrete random walk approach to spectral statistics in
Bernoulli matrix ensembles.
- 12:30 – 12:50 Itzhack Dana, Bar-Ilan University
Statistical Approach to Quantum-Chaotic Ratchets.

Lunch Break

- 14:00 – 14:20 Erez Braun, Technion
Universality and collective modes: relevant and irrelevant variables in the living cell.
- 14:20 – 14:40 Nir Davidson, Weizmann Institute
Phase synchronization of laser networks with time-delayed coupling and disorder.
- 14:40 – 15:00 Oded Farago, Ben-Gurion University
Inertial Langevin dynamics in inhomogeneous media.

Coffee Break

- 15:20 – 15:40 Gregory Falkovich, Weizmann Institute
Localization-delocalization phase transition for particles in a flow.
- 15:40 – 16:00 V.V. Lebedev, Landau Institute
Passive scalar statistics in the laminar sublayer of turbulent flow: dramatic role of intermittency.
- 16:00 – 16:20 Paul Krapivsky, Boston University
Diffusive lattice gases: transport coefficients and large deviations.

Contact :

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