



מכון ויצמן למדע

WEIZMANN INSTITUTE OF SCIENCE

STATISTICAL MECHANICS DAY VI

June 5, 2013

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 Joel L. Lebowitz, Rutgers University
Existence and Entropy of measures/density matrices
with prescribed correlations
- 10:00 – 10:20 Gregory Falkovich, Weizmann Institute
What a single snapshot reveals about the future and the past of
turbulent flow
- 10:20 – 10:40 David Kessler, Bar-Ilan University
Delbruck-Luria revisited
- 10:40 – 11:00 Yacov Kantor, Tel-Aviv University
Forces between polymers and scale-free surfaces
- Coffee Break*
- 11:30 – 11:50 Haye Hinrichsen, University of Wuerzburg
Detailed fluctuation theorem for non-stationary nonequilibrium
systems (with D. Luposchinsky and A. C. Barato)
- 11:50 – 12:10 Saar Rahav, Technion
The non-equilibrium thermodynamics of a coherent quantum
heat engine
- 12:10 – 12:30 Sorin Solomon, Hebrew University
Statistical Mechanics of Crises

12:30 – 12:50 Eric Akkerman, Technion
Cumulants of the current and large deviations in the symmetric simple exclusion process on an arbitrary graph

Lunch Break

14:00 – 14:20 Eran Bouchbiner, Weizmann Institute
A simple nonlinear equation for structural relaxation in glasses

14:20 – 14:40 Doron Cohen, Ben Gurion University
Thermalization of mesoscopic subsystems

14:40 – 15:00 Eli Barkai, Bar-Ilan University
Theory of fractional-L'evy kinetics for cold atoms diffusing in optical lattices

Coffee Break

15:20 – 15:40 Gady Kozma, Weizmann Institute
On the Mermin-Wagner argument

15:40 – 16:00 Oleg Krichevsky, Ben Gurion University
The efficiency of autocrine and paracrine communication between T cells.

16:00 – 16:20 Yaron Silberberg, Weizmann Institute
Discrete Systems in a New Light

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