

STATISTICAL MECHANICS DAY

June 24, 2008 09:30 to 17:10 Weizmann Institute of Science Physics Building, Weissman Auditorium

09:30 - 09:40	Opening Remarks – David Mukamel
09:40 - 10:00	Itamar Procaccia – Weizmann Institute Unveiling the mysteries of the glass-transition
10:00 – 10:20	Ron Lifshitz – Tel Aviv University Synchronization and collective effects in arrays of nonlinear oscillators
10:20 – 10:40	Ehud Meron - Ben-Gurion University Regular vs. Scale-Free Patterns: Resolving the Dichotomy of Dryland Vegetation
10:40 – 11:00	Yossi Avron - Technion Micro-swimming: An introduction to Gauge theory.
	Coffee Break
11:30 – 11:50	Haim Sompolinsky - Hebrew University Trading Space for Time
11:50 – 12:10	Kenneth Dawson - University College Dublin. Statistical Mechanics Questions Posed by Perturbation of Biological Systems
12:10 – 12:30	Kinneret Keren - Technion Mechanism of shape determination in motile cells
12:30 – 12:50	Oleg Krichevsky - Ben-Gurion University DNA as an exemplary polymer

Lunch Break

14:00 – 14:20	Yariv Kafri - Technion Steady-State Chemotaxis in E. Coli
14:20 – 14:40	Eli Barkai – Bar-Ilan University Weak Ergodicity Breaking
14:40 – 15:00	Eldad Bettelheim - Hebrew University Stochastic Loewner Evolution and models with c>1
15:00 – 15:20	Itzhak Fouxon - Tel-Aviv University Universal upper bounds on entropy from the second Law of thermodynamics
	Coffee Break
15:50 – 16:10	Gunter Schuetz - Weizmann/Juelich, Germany Instability of condensation in the zero-range process with random interaction
16:10 – 16:30	Shlomo Havlin - Bar-Ilan University Novel percolation approaches in complex networks
16:30 – 16:50	Yacov Kantor - Tel-Aviv University Anomalous Diffusion with Controlled Exponent
16:50 – 17:10	Eytan Domany - Weizmann Institute The problem of multiple comparisons: bounding the False Discovering Rate