מכון ויצמן למדע
WEIZMANN INSTITUTE OF SCIENCE

STATISTICAL MECHANICS DAY IX

December 13, 2016
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   Efi Efrati, Weizmann Institute
Rotational diffusion of a molecular cat

10:00 – 10:20   Yair Shokef, Tel Aviv University
Attraction controls the inversion of order by disorder in
buckled colloidal monolayers

10:20 – 10:40   Itamar Kolvin, Hebrew University
Topological defects in brittle fracture

10:40 – 11:00   Oded Farago, Ben-Gurion University
Isothermal Langevin dynamics in systems with power-law
spatially dependent friction

                  Coffee Break

11:30 – 11:50   Itamar Procaccia, Weizmann Institute
Why mean field theory of jamming in infinite dimensions
agrees perfectly with two and three dimensions?

11:50 – 12:10   Julien Cividini, Weizmann Institute
Anomalous heat conduction: temperature profile

12:10 – 12:30   Eytan Katzav, Hebrew University
Analytical results for the distribution of shortest path lengths in
random networks

12:30 – 12:50   Baruch Barzel, Bar-Ilan University
Perturbative Theory of Network Dynamics

                  Lunch Break

14:00 – 14:20	Erez Braun, Technion Hydra regeneration : a window on morphogenesis
14:20 – 14:40	Saar Rahav, Technion The copying fidelity of a polymerase facing an obstacle
14:40 – 15:00	Yacov Kantor, Tel-Aviv University Free Energy Reconstruction from Non-equilibrium Motion of Polymers
	Coffee Break
15:20 – 15:40	Gady Kozma, Weizmann Institute The Toom process via coupling
15:40 – 16:00	Manuelle Dalla Torre, Bar-Ilan University Diagrammatic approach to the nonequilibrium Dicke phase transition
16:00 – 16:20	Eric Akkerman, Technion Observing a Scale Anomaly in Graphene: a Universal Quantum Phase Transition