

STATISTICAL MECHANICS DAY XIV

Tuesday, February 21, 2023

Physics Library in Weissman building

Weizmann Institute of Science

09:00 – 09:30 *Coffee break*

09:30 – 09:40 **Opening Remarks**

09:40 – 10:00 **Itamar Procaccia, WIS**

Solids: Anomalous Elasticity and Emergent Dipole Screening in Amorphous
Kosterlitz-Thouless-like transition.

10:00 – 10:20 **Eytan Katzav, HUJI**

walks on Analytical results for the distribution of first-passage times of random
random regular graphs.

10:20 – 10:40 **Michael Assaf, HUJI**

Phase Transition in a Non-Markovian Animal Exploration Model with
Preferential Returns

10:40 – 11:00 **Naftali Smith, BGU**

Nonequilibrium steady state for harmonically-confined active particles

11:00 – 11:30 *Coffee break*

11:30 – 11:50 **Alexandra Tayar, WIS**

Active stresses control the phase behavior of liquid phase separation.

11:50 – 12:10 **Guy Bunin, Technion**

Local and extensive dynamics in many-variable disordered systems

12:10 – 12:30 **Oded Farago, BGU**

Brownian dynamics across discontinuities – algorithms and applications

12:30 – 12:50 **Yair Shokef, TAU**

Emergent Disorder and Mechanical Memory in Periodic Metamaterials

Lunch break

14:00 – 14:20 **Eli Barkai, BIU**

Packets of diffusing particles exhibit universal exponential tails.

14:20 – 14:40 **Avraham Be'er, BGU**

Biophysical aspects underlying the swarm to biofilm transition.

14:40 – 15:00 **Omer Granek, Technion**

Flocking in the Active Ising Model

15:00 – 15:20 **Kinneret Keren, Technion**

Physics of Hydra Morphogenesis.