



מכון ויצמן למדע

WEIZMANN INSTITUTE OF SCIENCE

STATISTICAL MECHANICS DAY XI

November 20, 2019

09:30 to 16:20

**Physics Library, Benozio Physics Building
Weizmann Institute of Science**

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|---------------|---|
| 09:00 – 09:30 | <i>Coffee</i> |
| 09:30 – 09:40 | Opening Remarks |
| 09:40 – 10:00 | Yoav Sagi - Technion
“The attractive Fermi polaron problem - experimental study with an ultracold Fermi gas” |
| 10:00 – 10:20 | David Kessler – Bar-Ilan University
“Quantum First-Detection Problems” |
| 10:20 – 10:40 | Dekel Shapira – Ben-Gurion University
“Interplay of Quantum and stochastic transport along chains” |
| 10:40 – 11:00 | Asaf Miron – Weizmann Institute
“Phase transition in transport through a narrow-channel” |
| | <i>Coffee Break</i> |
| 11:30 – 11:50 | Erez Braun - Technion
“Is morphogenesis in animal development reversible?” |
| 11:50 – 12:10 | Yasmine Meroz – Tel-Aviv University
“Form and Function: Emergent Structures in Growth-Driven Systems” |
| 12:10 – 12:30 | Ehud Meron – Ben-Gurion University
“Dynamics of desertification fronts” |
| 12:30 – 12:50 | Iddo Eliazar – Tel-Aviv University
“Max-Min/Min-Max of random matrices” |

Lunch Break

- 14:00 – 14:20 Ofer Biham – Hebrew University
“Convergence of contracting networks towards an asymptotic maximum-entropy structure”
- 14:20 – 14:40 Bertrand Lacroix – Weizmann Institute
"Universal intermediate deviation functions for the 2d One Component Plasma”
- 14:40 – 15:00 Gianluca Teza – Weizmann Institute
“Memory leaves entropy production fluctuations invariant under coarse-graining”

Coffee Break

- 15:20 – 15:40 Hillel Aharoni – Weizmann Institute
“Universal Inverse Design of Nematic Elastomer Surfaces”.
- 15:40 – 16:00 Michael Moshe – Hebrew University
“Mechanical Meta-Materials as lattices of quadrupolar elastic charges”
- 16:00 – 16:20 Naomi Oppenheimer – Tel-Aviv University
“Hurricane dynamics in a membrane”

Organizers : David Mukamel
 Oren Raz

Contact :
Perla Zalcberg – perla.zalcberg@weizmann.ac.il