



מכון ויצמן למדע  
WEIZMANN INSTITUTE OF SCIENCE

## STATISTICAL MECHANICS DAY III

June 16, 2010

09:00 to 17:10

Weizmann Institute of Science

Physics Building, Weissman Auditorium

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| 09:00 – 09:30 | <i>Coffee</i>  |
| 09:30 – 09:40 | Opening Remarks – David Mukamel  |
| 09:40 – 10:00 | Stefano Ruffo, University of Firenze<br>Quasi-stationary states in Hamiltonian mean-field dynamics             |
| 10:00 – 10:20 | Eli Barkai, Bar Ilan University<br>Single File Diffusion   |
| 10:20 – 10:40 | Yacov Kantor, Tel Aviv University<br>Statistical Mechanics of Elongated Hard Particles in One Dimension        |
| 10:40 – 11:00 | Haim Taitelbaum – Bar Ilan University<br>Persistence in reactive-wetting interfaces                            |
|               | <i>Coffee Break</i>  |
| 11:30 – 11:50 | S.A. Safran, Weizmann Institute<br>Line activity of hybrid lipids: stabilization of membrane rafts?            |
| 11:50 – 12:10 | Naama Brener, Technion<br>Protein distributions in dividing cell populations                                   |
| 12:10 – 12:30 | Oleg Krichevsky, Ben Gurion University<br>Marginal Nature of DNA solutions.                                    |
| 12:30 – 12:50 | Oded Farago, Ben Gurion University<br>Fluctuation induced aggregation of adhesion sites in supported membranes |

*Lunch Break*

- 14:00 – 14:20 Eran Sharon - Hebrew University  
Inertial Waves as a Main Energy Transfer Mechanism in Rotating Turbulence
- 14:20 – 14:40 Gregory Falkovich, Weizmann Institute  
Symmetries of turbulent state
- 14:40 – 15:00 Yael Roichman, Tel Aviv University  
Non-equilibrium pair attraction between driven colloidal particles.
- 15:00 – 15:20 Eran Bouchbinder, Weizmann Institute  
Nonequilibrium Thermodynamics of Glasses: The Kovacs Effect

*Coffee Break*

- 15:50 – 16:10 Reuven Cohen, Bar-Ilan University  
Dynamic networks and directed percolation
- 16:10 – 16:30 Omri Gat , Hebrew University  
Mode-locked laser pulse fluctuations.
- 16:30 – 16:50 Oded Agam, Hebrew University  
Localized Rayleigh Instability in Evaporation Fronts
- 16:50 – 17:10 Shmuel Fishman, Technion  
Anderson Localization for the Nonlinear Schroedinger Equation (NLSE): results and puzzles.