



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