



Double-Day Symposium on Conductance in Molecules

Day I: Sunday, June 10th, 2007, Yad Hashmona

08:45 – 09:00 R. Baer • Welcome and Opening remarks

Chair: Wolfgang Domcke, Technische Universität München Session 1

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| 09:00 - 09:40 | Eran Rabani,
Tel Aviv University | • INELASTIC TUNNELING SPECTROSCOPY: A REAL-TIME PATH-INTEGRAL APPROACH |
| 09:40 - 10:20 | R. Benny Gerber,
The Hebrew University | • CHARGE TRANSFER REACTIONS IN WATER CLUSTERS: DYNAMICS SIMULATIONS WITH AB INITIO POTENTIALS |
| 10:20 - 11:00 | Uri Peskin,
Technion | • ELECTRONIC TUNNELING THROUGH VIBRATING MOLECULAR BRIDGES |
| 11:00 - 11:30 | Caffeine Break | |



Chair: Noam Agmon, The Hebrew University Session 2

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| 11:30 - 12:10 | Daniel Neuhauser,
U of California at Los Angeles | • MESOSCOPIC ELECTROMAGNETIC SHUTTLING |
| 12:10 - 12:50 | Raphael D. Levine,
The Hebrew University | • THE EMERGENCE OF A COUPLED QUANTUM DOT ARRAY IN A GATED SI NANOWIRE |
| 12:50 - 15:50 | Lunch + Guided Tour | |



Chair: Avinoam Ben Shaul, The Hebrew University Session 3

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| 15:50 - 16:30 | Abraham Nitzan,
Tel Aviv University | • BEYOND MOLECULAR CONDUCTION |
| 16:30 - 17:10 | Danny Porath,
The Hebrew University | • ELECTRICAL TRANSPORT, POLARIZABILITY AND SPECTROSCOPY THROUGH DNA MOLECULES AND DERIVATIVES USING CONDUCTIVE AFM AND STM |
| 17:10 - 17:50 | Noam Agmon,
The Hebrew University | • ONE-DIMENSIONAL PROTON DIFFUSION ON A SWITCHABLE PROTON WIRE WITHIN THE GREEN FLUORESCENCE PROTEIN |
| 17:50 - 19:30 | Dinner | |
| 19:30 - 21:00 | Poster Session | |





Double-Day Symposium on Conductance in Molecules

Day II: Monday, June 11th, 2007, Yad Hashmona

Chair: R. Benny Gerber, The Hebrew University		Session 4
09:00 - 09:40	Nimrod Moiseyev, Technion	• TRANSFER OF ELECTRONS THROUGH 2D QUANTUM DOTS
09:40 - 10:20	Ronnie Kosloff, The Hebrew University	• Transport of HEAT: QUANTUM REFRIGERATORS
10:20 - 11:00	Daniel Harries, The Hebrew University	• PROTEIN ADSORPTION ON CHARGED BILAYERS: A DYNAMIC MODEL TO DESCRIBE TIME EVOLUTION AND REORGANIZATION
11:00 - 11:30	Caffeine Break	



Chair: Ronnie Kosloff, The Hebrew University		Session 5
11:30 - 12:10	Gerard Meijer, Fritz Haber Institute Berlin	• MOLECULAR COLLISION STUDIES WITH STARK-DECELERATED BEAMS
12:10 - 12:50	Shimshon Kallush The Hebrew University	• A SHORTER BUT LONGER WAY: LOCAL QUANTUM CONTROL
12:50 - 14:20	Lunch	



Chair: Raphael D. Levine, The Hebrew University		Session 6
14:20 - 15:00	Helmut Grubmüller, Max Planck Gottingen	• TBA
15:00 - 15:40	Avinoam Ben Shaul, The Hebrew University	• TBA
15:40 - 16:20	Micha Asscher, The Hebrew University	• ELECTRON ATTACHMENT PROCESSES ON SURFACES
16:20 - 17:00	Arieh Warshal, University of Southern California	• MULTISCALE SIMULATIONS OF CONDUCTANCE IN BIOLOGICAL SYSTEMS: FROM ION SELECTIVITY IN THE KCSA CHANNEL TO PROTON TRANSPORT IN CYTOCHROME C OXIDASE
17:00 - 17:40	Roi Baer, The Hebrew University	• TIME-DEPENDENT DENSITY FUNCTIONAL THEORY MAPPING OF POTENTIALS AND ELECTRON DYNAMICS

