TEL AVIV SYMPOSIUM
IN CHEMICAL PHYSICS

FOCUS ON ELECTRONIC TRANSPORT
IN MOLECULAR JUNCTIONS

Monday, JUNE 14, 2010
09:00-18:00
TEL AVIV UNIVERSITY
MELAMED AUDITORIUM,
SHENKAR BUILDING

www.tau.ac.il/chemistry/events/TASCIP.html
TEL AVIV SYMPOSIUM
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8:45-9:00 Gathering and coffee
9:00-9:10 Opening remarks
9:15-9:45 Jose Ignacio Pascual, Freie Universität Berlin
Electron-phonon coupling phenomena in electron transport through a molecule resolved using STM
9:50-10:20 Abraham Nitzan, Tel Aviv University
Heating and Cooling in molecular conduction
10:25-10:55 Ori Chesnokovskiy, Tel Aviv University
Detection of heating in current carrying molecular junctions by Raman spectroscopy
11:00-11:25 Coffee break
11:25-11:55 Uri Peskin, Technion – Israel Institute of Technology
Bios-Controlled Mode-Selective Excitations in Molecular junctions
12:00-12:30 Ernesto Joselevich, Weizmann Institute of Science
How do different nanotubes twist?
12:35-13:05 Roi Baer, Hebrew University of Jerusalem
Coulomb blockade in molecular junctions
13:10-14:30 Lunch at “Gan Haekalim”
14:30-15:00 Juan Carlos Cuevas, Universidad Autónoma de Madrid
Photon-assisted transport in atomic and molecular junctions
15:05-15:35 David Cahen, Weizmann Institute of Science
Proteins as Solid State Electronic Conductors
15:40-16:10 Yigal Meir, Ben Gurion University
Electronic correlation effects in transport through quantum point contacts
16:15-16:40 Coffee break
16:40-17:10 Oren Tal, Weizmann Institute of Science
Highly conductive single-molecule junctions
17:15-17:45 Eran Rabani, Tel Aviv University
Real-Time Path Integral Approach for Nonequilibrium Many-Body Quantum Systems