

# Conference Program

November 13 - 16, 2006

## Monday, November 13

Time	Speaker	Title
8:45 AM	Crabtree, George	<i>Opening</i>
9:00 AM	Aharony, Amnon	<i>Steps ind Dips in the AC Conductance and Noise in Mesoscopic Structures</i>
9:30 AM	Birge, Norman	<i>Phase coherence of conduction electrons below the Kondo temperature</i>
10:00 AM	Guyot-Sionnest, Philippe	<i>Charging and magnetotransport of 3D films of colloidal semiconductor nanocrystals</i>
10:30 AM	Geim, Andre	<i>QED in a Pencil Trace</i>
11:00 AM	<b>Break</b>	
11:30 AM	Kozoub, Veniamin	<i>Non-Gaussianity of current noise in hopping - conductors- effects of non-linearity and mesoscopicity</i>
12:00 PM	Pistolesi, Fabio	<i>Frequency dispersion of photon-assisted shot noise in mesoscopic conductors</i>
12:30 PM	Meyer, Julia	<i>The transition from a one-dimensional to a quasi-one-dimensional state in interacting quantum wires</i>
1:00 PM	<b>Lunch</b>	
3:00 PM	Gefen, Yuval	<i>The Dilemma of Transmission Phase Lapses</i>
3:30 PM	Finkelstein, Alexander	<i>"Metal-Insulator" Transition in a System of 2D Superconducting Vortices Caused by a Metallic Gate</i>
4:00 PM	<b>Break</b>	
4:30 PM	Galperin, Michael	<i>Inelastic effects in molecular junctions</i>
5:00 PM	Abanine, Dimitri	<i>Quantum Hall Ferromagnetism in Graphene</i>

**Tuesday, November 14**

<b>Time</b>	<b>Speaker</b>	<b>Title</b>
9:00 AM	Bagrets, Dmitry	<i>Current fluctuations in the vicinity of a superconducting phase transition</i>
9:30 AM	Belzig, Wolfgang	<i>Circuit theory of crossed Andreev reflection</i>
10:00 AM	Bezryadin, Alexey	<i>New phenomena in ultrashort superconducting nanowires templated by single molecules</i>
10:30 AM	Bouzdin, Alex	<i>Field induced Pi-superconductivity with an enhanced paramagnetic limit in superconducting layered systems</i>
11:00 AM	<b>Break</b>	
11:30 AM	Bulaevskii, Lev	<i>Electromagnetic radiation from vortex flow in type-II superconductors</i>
12:00 PM	Golubov, Alexander	<i>Odd-frequency pairing in superconducting hybrid structures</i>
12:30 PM	Kapitulnik, Aharon	<i>High Resolution Polar Kerr Effect Measurements of <math>Sr_2RuO_4</math>: Evidence for Broken Time Reversal Symmetry in the Superconducting State</i>
1:00 PM	<b>Lunch</b>	
3:00 PM	Koshchev, Alexei	<i>Magnetic oscillations in intrinsic Josephson-junction stacks</i>
3:30 PM	Goldman, Allen	<i>Probable Observation of a Bose Insulator in Highly Disordered <math>In_2O_3</math> Films</i>
4:00 PM	Simon, Pascal	<i>Transport through a Kondo quantum dot with <math>SU(4)</math> entanglement</i>
4:30 PM	<b>Break</b>	
5:00 PM	Shekhter, Robert	<i>Quantum nano-mechanics and single electron tunneling</i>
5:30 PM	Gutman, Dima	<i>Zero Bias Anomaly Out of Equilibrium</i>
6:00 PM	Morr, Dirk	<i>Nanoscale Structures and Novel Quantum Phenomena in Correlated Electron Systems</i>

**Wednesday, November 15**

<b>Time</b>	<b>Speaker</b>	<b>Title</b>
9:00 AM	Bader, Sam	<i>Metallic Lateral Spin Valves</i>
9:30 AM	Entin-Wohlman, Ora	<i>ac spin-Hall effect</i>
10:00 AM	Varlamov, Andrei	<i>Fluctuations in 2D Josephson structures</i>
10:30 AM	Girvin, Steven	<i>Strong Coupling Cavity QED and Superconducting Qubits</i>
11:00 AM	<b>Break</b>	
11:30 AM	Matveev, Kostantin	<i>Asymmetric Zero-Bias Anomaly for Strongly Interacting Electrons in One Dimension</i>
12:00 PM	Glatz, Andreas	<i>AC conductivity of disordered Luttinger liquids at finite temperatures</i>
12:30 PM	Polyakov, Dmitrii	<i>Transport of charge-density waves in the presence of disorder: Quantum localization vs classical pinning</i>
1:00 PM	<b>Lunch</b>	
3:00 PM	Beloborodov, Igor	<i>Superconductive Nanosolids</i>
3:30 PM	Shklovskii, Boris	<i>Hopping conductivity of a suspension of nanowires in an insulator</i>
4:00 PM	Pokrovskii, Valery	<i>Quantum noise in Landau-Zener transitions</i>
4:30 PM	<b>Break</b>	
5:00 PM	Shpyrko, Oleg	<i>Spin Dynamics in SDW Antiferromagnetic Cr with X-ray Speckle</i>
5:30 PM	Bhattacharya, Anand	<i>Digital Synthesis of Manganites: An Example of Emergent Phases at Ordered Interfaces</i>
6:00 PM	Zharov, Alexander	<i>Phase slips in Narrow superconducting wires.</i>

**Thursday, November 16**

<b>Time</b>	<b>Speaker</b>	<b>Title</b>
9:00 AM	Chudnovsky, Eugene	<i>Gyromagnetic Phenomena at the Nanoscale</i>
9:30 AM	Chandrasekhar, Venkat	<i>On graphite/graphene devices</i>
10:00 AM	Burin, Alex	<i>Many electron theory of 1/f-noise in hopping conductivity</i>
10:30 AM	Martin, Ivar	<i>Intermittent polaron dynamics: Born-Oppenheimer approximation out of equilibrium</i>
11:00 AM	<b>Break</b>	
11:30 AM	Mirlin, Alexander	<i>Electron transport in disordered graphene</i>
12:00 PM	Kiselev, Mikhail	<i>Kondo Effect in Organometallic Complexes and Nanoelectromechanical Devices</i>
12:30 PM	Vlasko-Vlasov, Vitalii	<i>Plasmonic elements for Nanophotonics</i>
1:00 PM	<b>Lunch</b>	
3:00 PM	Lin, Xiao-Min	<i>Growth and Properties of Superconducting Anisotropic Lead Nanoprisms</i>
3:30 PM	Bergli, Joakim	<i>Spin echo in an arbitrary magnetic field: How to undo an unknown rotation</i>
4:00 PM	Tokura, Yasuhiro	<i>Coherent transport through coupled quantum dots</i>