

FOPS at a Glance

	Monday, August 9	Tuesday, August 10	Wednesday, August 11	Thursday, August 12	Friday, August 13
7:00	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
8:00	<p>Welcome Photonic Crystals (Cundiff) Van Driel, Henry - University of Toronto: "Nonlinear optics in semiconductor photonic crystals" Hughes, Stephen, NTT Basic Research Labs, Japan: "Optical Scattering Loss and Single-Quantum-Dot Strong Coupling in Semiconductor Photonic Crystal Slabs" Wegener, Martin, University of Karlsruhe: "3D Nanolithography and characterization of 3D Photonic Crystals: Semiconductors for light"</p>	<p>Exciton Formation (Koch) Kira, Mackillo - Philipps University, Marburg: "Theory of exciton formation and luminescence" Galbraith, Ian - Heriot-Watts University Edinburgh: " Excitonic Signatures in Photoluminescence and Terahertz Absorption" Gibbs, Hyatt - University of Arizona: "Excitonic Light Doesn't Have to Come from Excitons " Deveaud-Pledran, Benoit EPFL, Lausanne: "Excitons, free carriers, Mott transition and related topics in quantum wells"</p>	<p>Nanoplasmonics (Borri) Citrin, David - Georgia Institute of Technology: "Plasmon-polariton propagation in metal-nanoparticle waveguides" Giessen, Harald - University of Bonn: "Metallic photonic crystals" Stockman, Mark - Georgia State University: "Nanophotonics in Metal-Semiconductor Nanostructures: Spaser and Other Phenomena" Feldman, Jochen - University of Munich: "Energy transfer in hybrid nanoparticle systems"</p>	<p>Spins (Sipe) Merlin, Roberto - University of Michigan: "Low Energy Excitations in Quantum Wells: Coherent Density Fluctuations and Entangled Spins" Kono, Junichiro - Rice University: "Ultrafast Optical Manipulation of Ferromagnetism in Mn-doped III-V Semiconductors" Yakovlev, Dmitri - University of Dortmund: "Spin dynamics in diluted-magnetic-semiconductor heterostructures with free carriers" Gammon, Daniel - Naval Research Laboratories: " Optically measuring and controlling the spin of single quantum dots for quantum computing "</p>	<p>Spins (Merlin) Smirl, Arthur - University of Iowa: " Subtle spins on the injection & control of charge densities in semiconductors" Sipe, John - University of Toronto: " All-optical injection of spin currents" Silva, Tom, NIST: TBA Phillips, Richard - University of Cambridge, UK: "Exciton spin in wells, wires and dots"</p>
10:00	Break	Break	Break	Break	Break
10:30	<p>Condensation/Coherence (Cornell) Butov, Leonid - University of California at San Diego: "Phenomena in cold exciton gases: Condensation, macroscopic ordering and beyond" Snoke, David - University of Pittsburgh: "Trapping high mobility excitons in 2D" Rapaport, Ronen - Bell Labs: "Formation and Dynamics of Exciton Emission Rings in Quantum Wells " Mysyrowicz, Andre – ENSTA "Bose-Einstein condensation of excitonic particles"</p>	<p>Terahertz (Unterrainer) Koch, Stephan - University of Marburg: "Many-body theory of Terahertz absorption and gain in optically excited semiconductors" Sherwin, Mark - University of California at Santa Barbara: "Terahertz Nonlinear Optics" Heinz, Tony - Columbia University "THz spectroscopy of semiconductor nanostructures" Kaindl, Robert - Lawrence Berkeley National Laboratory "Transient terahertz conductivity of excitons and electron-hole gases"</p>	<p>Quantum Optics (Sham) Gershoni, David - Technion "Intensity and polarization correlations between single photons emitted from microcavity embedded single semiconductor quantum dots" Mirin, Richard - NIST-Boulder "Single photon sources based on single quantum dots" Wang, Hailin - University of Oregon:"Electromagnetically Induced Transparency in Semiconductors"</p>	<p>Quantum Dots (Mirin) Borri, Paola - University of Dortmund "Dephasing processes in InGaAs quantum dots and quantum-dot molecules" Nozik, Arthur - National Renewable Energy Laboratory: "Electron Relaxation Dynamics in Photoexcited Quantum Dots and the Relevance to Solar Photon Conversion: Carrier Cooling, Impact Ionization, and Interfacial Charge Transfer" Huffaker, Diana - University of New Mexico: "Patterned Quantum Dot Formation"</p>	<p>Cavity QED (Citrin) Khitrova, Galina - University of Arizona: "Entanglement between a photon and a quantum dot" Sham, Lu - University of California at San Diego "Theory and applications of Cavity Quantum Electrodynamics with Nanodots" Forchel, Alfred - University of Wurzburg: "Optical spectroscopy of single quantum dots and microcavities"</p>
12:30	Lunch	BBQ Lunch	Lunch	Lunch	Final lunch and closing

1:30	Free time	Free time	Free time	<p>2:00 <u>Miscellaneous (Gonakami)</u> Stolz, Heinrich - University of Rostock, "Ultra-high resolution spectroscopy of excitons in Cu₂O" Kim, DaiSik - Seoul National University, "Virtual-real quantum beats in semiconductor quantum well systems" Norris, Theodore - University of Michigan: "Propagation, Diffraction, and Nanoscale Imaging with Coherent Acoustic Phonon Pulses" Cundiff, Steve, JILA/NIST/University of Colorado, TBA 4:00 <u>Lasers (Huffaker)</u> Heberle, Alfred, University of Pittsburgh, Ultrafast dynamics in VCSEL's – from coherent control to mode locking Akiyama, Hidefumi - University of Tokyo, " Lasing in T-shaped quantum wires with high uniformity "</p>	
7:00	<p><u>Condensation/Coherence (Snoke)</u> Cornell, Eric – JILA/NIST/University of Colorado "What's hot in cold atoms?" Binder, Rolf - University of Arizona "Theory of transversal light forces in semiconductors" Kuwata-Gonokami, Makoto - University of Tokyo "Optical manipulation of ultracold excitonic particles"</p>	<p><u>Theory (Binder)</u> Haug, Hartmut - Goethe University, Frankfurt "Observation of light-induced band gaps" Hawton, Margaret - Lakehead University "Polarization driven exciton dynamics in asymmetric nanostructures" Flatté, Michael - University of Iowa: "Theory of the density dependence of the electron g-factor and spin decoherence"</p>	<p><u>Terahertz (Heinz)</u> Unterrainer, Karl - Technical University of Vienna "THz quantum cascade lasers: From quantum wells to quantum boxes" Elsaesser, Thomas - Max Born Institute, Berlin "Ultrafast dynamics of nonlinear intersubband excitations in GaAs/AlGaAs quantum wells" Gmachl, Claire - Princeton "Nonlinear optical effects in quantum cascade lasers and applications"</p>	<p>6:30 Banquet Pinon/Billiard rooms in main hotel</p>	
8:30		<p>8:30 Poster Session Desserts, drinksK/M Labs</p>	<p>"The Shining" Manor House Library</p>		