

Wednesday, September 6th

- 08:00am – 08:30 am Registration
- 08:30am – 08:50 am Welcome
- 08:50am – 9:35 am Vasili Perebeinos (IBM)
“Optics and Optoelectronics of Carbon Nanotubes”
- 9:35am – 10:20 am Greg Scholes (Toronto)
“The lower exciton states of carbon nanotubes and an explanation for the measured fluorescence quantum yield and decay times.”
- 10:20 am – 10:40 am Break
- 10:40am – 11:25 am Sumit Mazumdar (Arizona)
“Universal properties of quasi-one-dimensional excitons in pi-conjugated polymers and semiconducting single-walled carbon nanotubes”
- 11:25am – 12:10 pm Han Htoon (LANL)
“Low temperature photoluminescence imaging and spectroscopy of individual carbon nanotubes.”
- 12:10pm – 12:30pm Hongbo Zhao (Arizona)
“Theory of electroabsorption in semiconducting single-walled carbon nanotubes”
- 12:30 pm – 2:00 pm Lunch
- 2:00pm – 2:45 pm Serguei Goupalov (St. Petersburg)
“Raman studies of exciton-phonon coupling in single-walled carbon nanotubes.”
- 2:45pm – 3:30 pm Janina Maultzsch (Columbia)
“Electron-phonon coupling and Raman intensities from the E11 and E22 transitions of nanotubes”
- 3:30pm – 3:50pm Break
- 3:50pm – 4:10pm Zhengtang Luo (UConn)
“The role of carbon nanotube interactions on intensities of second-order Raman bands.”
- 4:10pm – 4:30 pm Feng Wang (UC-Berkeley)
“Multiphonon Raman Scattering from Individual Single-Walled Carbon Nanotube”
- 4:30pm – 4:50 pm John Lupton (Utah)
“Simultaneous Raman and Fluorescence Spectroscopy of Single Conjugated Polymer Molecules.”

Thursday, September 7th

08:30am – 9:15 am Fotios Papadimitrakopoulos (UConn)
“Diameter and Metallicity Fractionation and Modeling of Single Wall Carbon Nanotubes according to Redox Differences.”

9:15am – 10:00 am Anna Swan (Boston University)
“Optical determination of electron phonon coupling in carbon nanotubes.”

10:00 am – 10:20 am Andy Shreve (LANL)
“Simultaneous analysis of luminescence excitation spectra and Raman excitation profiles to determine exciton-phonon couplings in carbon nanotubes.”

10:20am – 10:40 am Break

10:40am – 11:25 am Andrea Ferrari (Cambridge)
“Optical phonons and Raman spectra of Graphene and Nanotubes”

11:25am – 12:10pm Tony Heinz (Columbia)
“Probing phonon dynamics in single-walled carbon nanotubes: Spectral and time-domain studies.”

12:10pm – 12:30pm Kiril Tsemekhman (Washington)
“Suppression of luminescence in CNT is caused by electron-phonon interaction.”

12:30 pm – 2:00 pm Lunch

2:00pm – 2:45 pm Jacques LeFebvre (NRC Canada)
“Global far-field photoluminescence and Raman imaging of carbon nanotubes.”

2:45pm – 3:30 pm Ado Jorio (Belo Horizonte)
“Resonance Raman Analysis of "Large" Diameter Single-Wall Carbon Nanotubes.”

3:30pm – 3:50pm Break

3:50pm – 4:35pm Shigeo Maruyama (Tokyo)
“Cross-polarized absorption of single-walled carbon nanotubes by photoluminescence excitation spectroscopy.”

4:35pm – 4:55 pm Vasili Perebeinos (IBM)
“Phonon scattering and transport in Carbon Nanotubes.”

4:55pm – 5:15pm Siyu Koswatta (Purdue)
“Effect of Phonon Scattering in Carbon Nanotube FETs, an NEGF Treatment”

5:15pm – 5:35pm Sayed Hasan (Purdue)
“Hot Phonon and Self-Heating Effects in Carbon Nanotube FETs, a Theoretical Study.

Friday, September 8th

- 08:30am – 9:15 am Valy Vardeny (Utah)
“CW and transient spectroscopies of photoexcitations in semiconducting SWNT.”
- 9:15am – 10:00 am Tobias Hertel (Vanderbilt)
“Exciton Dynamics in individual Carbon Nanotubes and Nanotube Bundles.”
- 10:00 am – 10:20 am Hrant Seferyan (UC-Irvine)
“Transient Grating Measurements of Excitonic Dynamics in Single-Walled Carbon Nanotubes: The Dark Excitonic Bottleneck.”
- 10:20am – 10:40 am Break
- 10:40am – 11:25 am Jun Kono (Rice)
“Ultrafast Spectroscopy of Vibrational and Electronic States in Carbon Nanotubes.”
- 11:25am – 12:10pm Oleg Prezhdo (Washington)
“Time-Domain Ab Initio Studies of Phonon-Induced Relaxation of Electronic Excitations in Carbon Nanotubes.”
- 12:10pm – 12:30pm Marcus Jones (Toronto)
“Time-resolved photoluminescence of single-walled carbon nanotubes.”
- 12:30 pm – 2:00 pm Lunch
- 2:00pm – 2:45 pm Michael Heben (NREL)
“Determining Extrinsic and Intrinsic Effects in SWNT PL.”
- 2:45pm – 3:30 pm Sergei Bachilo (Rice)
“Vibronic spectra of SWNT: excitation, fluorescence and application to sample analysis.”
- 3:30pm – 3:50pm Break
- 3:50pm – 4:10pm Svetlana Kilina (LANL)
“Excitonic and vibronic properties of carbon nanotubes.”
- 4:10pm – 4:30 pm Alessio Gambetta (Milan/Utah)
“Real time observation of vibrational mode coupling in carbon nanotubes.”
- 4:30 pm Closing Remarks