

TAMU Physics of Quantum Electronics Workshop

January 13-14, 2009

Tuesday 01/13/09

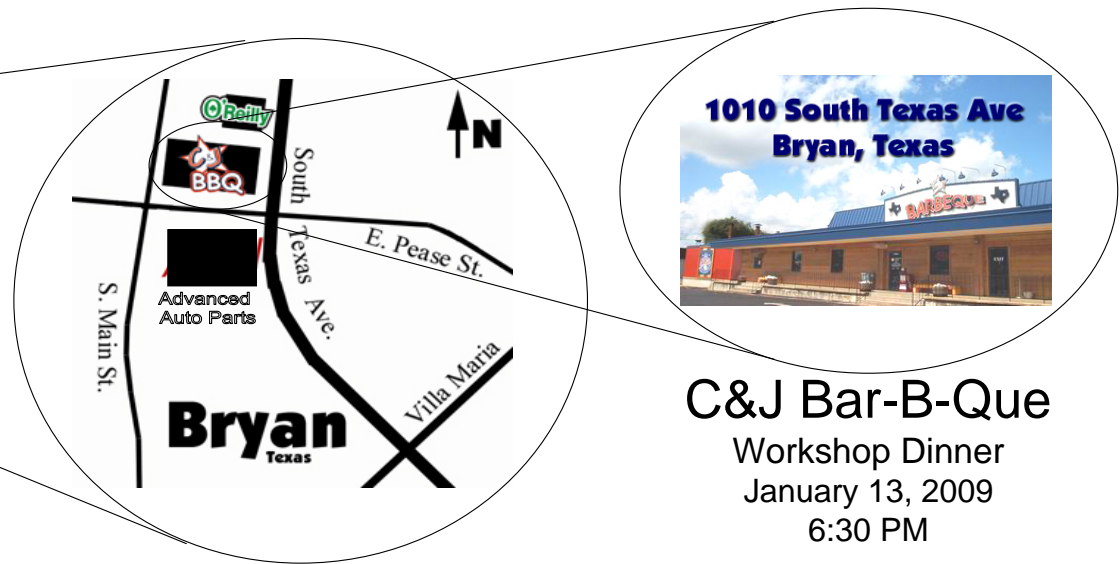
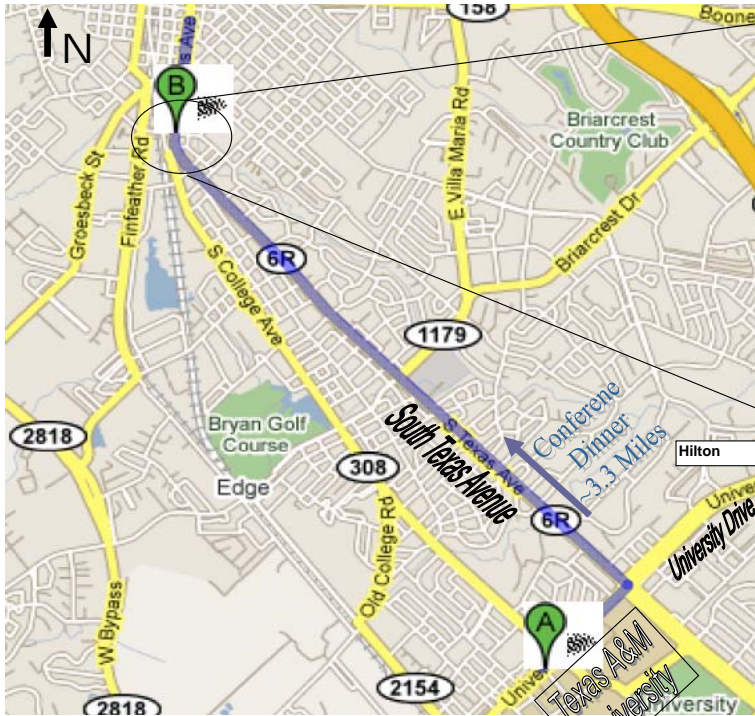
Wednesday 01/14/09

Session (Location)	I. (CHEN 104)	III. (CHEN 104)
9:00 - 9:15	<i>Welcome and Introduction</i> Marlan Scully, Conference Coordinator	<i>"Analytic Solution to the Schrödinger's Equation"</i> Hichem El Euch, Texas
9:15 - 9:45	<i>"The New World of Surface Plasmons"</i> Norbert Kroo, Hungarian Academy of Sciences	<i>"A review of Prof. Freeman Dyson's 'Origins of Life'"</i> Alan Dabney, TAMU
9:45 - 10:15	<i>"Cavity QED beyond the Vacuum Rabi Doublet"</i> Howard Carmichael, Auckland	<i>"Practical limits to sub-wavelength imaging"</i> Phil Hemmer, Texas
10:15 - 10:50	BREAK/Poster Session	BREAK/Poster Session
10:50 -11:10	<i>"New Analytical Solutions for Two Level Systems"</i> Pankaj Kumar Jha, Texas	<i>"The Lamb Shift in Single Photon Dicke Superradiance"</i> Eyob Sete, Texas
11:10 - 11:30	<i>"CARS and FAST-CARS detection of spores and biological molecules"</i> George Welch, Texas	<i>"Discrimination between CARS and background from biological samples"</i> Xi Wang, Texas
11:30 - 12:00	<i>"Ab initio theory of novel micro and nano lasers"</i> Doug Stone, Yale	<i>"Experiments on applying surface enhancements in FAST-CARS"</i> Hui Xia, Princeton/Texas
12:00 - 12:30	<i>"Single Particle Aerosol Detection using Laser-Induced Fluorescence"</i> Hermes Huang, Yale	<i>"Adaptive quantum estimation of continuous systems"</i> Sabine Woelk, Ulm
Lunch 12:30 - 1:30	CHEN 104 (Catered by Jason's Deli)	CHEN 104 (Catered by Jason's Deli)
Session (Location)	II. (CHEN 104)	IV. (CHEN 104)
1:30 - 2:00	<i>"Cavity QED and Spectroscopy with Rb Rydberg Atoms"</i> Thomas Becker, MPQ	<i>"Generating Ultra-bright CW Beams of Entangled Photon Pairs from atomic ensembles"</i> Yuping Huang, Michigan State
2:00 - 2:30	<i>"The Lamb Shift Yesterday, Today, and Tomorrow"</i> Marlan Scully, Texas/Princeton	<i>"Mesoscopic BEC phase transition"</i> Vitaly Kocharovskiy, Texas
2:30 - 3:00	<i>"Spectroscopic investigations and potential energy surfaces for pyridine, 1,3-butadiene, and 2-indanol in ground and excited electronic states"</i> Jaan Laane, Texas	<i>"Bose Condensation Revisited"</i> Moochan Kim, Texas
3:00 - 3:30	BREAK/Poster Session	BREAK/Poster Session
3:30 - 4:00	<i>"Toward single photon nonlinear optics in a hollow optical fiber"</i> Michal Bajcsy, Harvard	<i>"Novel Light Sources Utilizing Maximal Quantum Coherence in Molecular Gasses and Solids"</i> Alexei Sokolov, Texas
4:00 - 4:30	TBA John Bevan, Texas	<i>"Cooperative spontaneous emission of N atoms: effect of virtual photons and classical analogy with N harmonic oscillators"</i> Anatoly Svidzinsky, Texas
4:30 - 5:00	<i>"Quantum coherence effects in solids: New applications"</i> Olga Kocharovskaya, Texas	<i>"Yoked Superradiance"</i> Gombojav Ariunbold, Texas

OTHER Planned Activities

January 13: 6:30 PM Reception and Dinner, Bar-B-Que Buffet, C&J Bar-B-Que, 1010 S Texas Ave, Bryan, TX

January 15: Talk by DUDLEY HERSCHBACH, Nobel Laureate, 2:00 PM in room 2104 CHEMISTRY Building (Cotton Symposium)



C&J Bar-B-Que
 Workshop Dinner
 January 13, 2009
 6:30 PM

Directions from Intersection of Texas Avenue and University Drive to C&J Bar-B-Que

A Farm-To-Market Rd 60/University Dr

1. Head **northeast** on **Farm-To-Market Rd 60/University Dr** toward **Bizzell St/TX-308** go 0.6 mi
total 0.6 mi
About 1 min
- 6R** 2. Turn **left** at **Texas Ave S/TX-6R** go 3.8 mi
total 4.4 mi
About 7 mins
- 6R** 3. Make a **U-turn** at **E 29th St** go 0.6 mi
total 5.0 mi
Destination will be on the right
About 2 mins

B C & J Bar-B-Que Market
 1010 S Texas Ave, Bryan, TX 77803 - (979) 822-6033

