

The 3rd CQSE International Workshop on Atomic, Molecular, and Ultrafast Science and Technology

Time: Jan. 7, 2012

Venue: R104, New Physics Building, NTU

Time	Title	Speaker
8:00 – 8:30	Registration	
Session Chair : Tsin-Fu Jiang (National Chiao Tung University)		
8:30 – 8:40	Opening Remark	Shih-I Chu 朱時宜院士 (NTU)
8:40 – 9:25	Density Matrix Method and Ultrafast Processes	Sheng Hsien Lin 林聖賢院士 (NCTU)
9:25 – 10:10	Tackle the challenges of attosecond flux with Generalized Double Optical Gating	Zenghu Chang 常增虎 (University of Central Florida)
10:10 – 10:40	Coffee Break/photo	
Session Chair : Jeng-Da Chai (National Taiwan University)		
10:40 – 11:10	Quantum Optimal Control of Molecular Photoassociation and Stabilization - What Controls? What Optimal Controls?	Tak-San Ho 何德生 (Princeton University)
11:10 – 11:40	Single and double multiphoton ionization of Li and Be: a TDDFT approach	Dmitry Telnov (St. Petersburg State Univ., Russia)
11:40 – 12:10	Theory of atomic pump-probe processes with attosecond pulse above and below ionization threshold	Tsin-Fu Jiang 江進福 (NCTU)
12:10 – 12:40	Imaging and discriminating collagen I and II by the use of second-order susceptibility microscopy (SOSM)	Chen-Yuan Dong 董成淵 (NTU)
12:40 – 13:40	Lunch	
Session Chair : Yuan-Chung Cheng (National Taiwan University)		
13:45 – 14:30	Ultrafast Electronic and Vibrational Coherent Dynamics of Chiral Aromatic Molecules	Yuichi Fujimura 藤村勇一 (Tohoku University, Japan)
14:30 – 15:00	Molecular Dynamics Simulations Using AB Initio Force Fields	Sheng Der Chao 趙聖德 (NTU)
15:00 – 15:30	Synthetic gauge potentials for ultracold neutral atoms	Yu-Ju Lin 林育如 (IAMS, Academia Sinica)
15:30 – 16:00	Coffee break	
Session Chair : Sheng Der Chao (National Taiwan University)		
16:00 – 16:30	Dual comb laser spectroscopy: toward a broadband and instantaneous monitor on molecule quantum distribution	Wang-Yau Cheng 鄭王曜 (NCU)
16:30 – 17:00	Coherent charge transport through extended metal atom chains	Bih-Yaw Jin 金必耀 (NTU)
17:00 – 18:30	Poster session	
19:00	Dinner	

The 3rd CQSE International Workshop on Atomic, Molecular, and Ultrafast Science and Technology

Time: Jan. 8, 2012

Venue: R104, New Physics Building, NTU

Time	Title	Speaker
Session Chair : Tsin-Fu Jiang (National Chiao Tung University)		
8:30 – 9:15	Time-dependent density functional theory for Intense Laser Pulse Propagation in Solids	Kazuhiro Yabana (Tsukuba, Japan)
9:15 – 9:45	Density functional theory with fractional orbital occupations	Jeng-Da Chai 蔡政達 (NTU)
9:45 – 10:15	Electronic response to X-ray free-electron laser pulses	Sang-Kil Son (CFEL, Germany)
10:15 – 10:45	Theory for Coherent Excitation Energy Transfer in Molecular Aggregates	Yuan-Chung Cheng 鄭原忠 (NTU)
10:45 – 11:10	Coffee Break	
Session Chair : Jeng-Da Chai (National Taiwan University)		
11:10- 11:40	Beam-like photon pairs entangled in polarization	Atsushi Yabushita (NCTU)
11:40 -12:10	High-Order Harmonic Generation of Homonuclear and Heteronuclear Diatomic Molecules: Exploration of Multiple Orbital Contributions	John Heslar (CQSE, NTU)
12:10 -12:20	Closing Remark	Shih-I Chu 朱時宜院士 (NTU)
12:30	Lunch	