Workshop on Optics and New Materials II

April 30 – May 3, 2010, Hong Kong

Department of Physics and Institute of Theoretical Physics, The Chinese University of Hong Kong

Program

Venue: Lecture Theatre L2, Science Centre, The Chinese University of Hong Kong

Date Time	May 1 (Saturday)	May 2 (Sunday)	May 3 (Monday)
08:00 – 08:30	Registration		
08:30 - 08:50	Light breakfast	Light breakfast	Light breakfast
08:50 - 09:00	Opening speech		
09:00 – 09:35	Chuang-Tian Chen	Jian-Bai Xia	Shi-Ning Zhu
09:35 – 10:00	Qi-Huang Gong	Hong-Qi Xu	Yong-Fa Kong
10:00 – 10:25	Hong Chen	Zhe-Shuai Lin	Zhi-Yi Wei
10:25 – 10:45	Tea/Coffee	Tea/Coffee	Tea/Coffee
10:45 – 11:10	Che Ting Chan	Ping-Heng Tan	Xi-Hua Yang
11:10 – 11:35	Xue-Hua Wang	Xiao-Dong Cui	Shi-Yao Zhu
11:35 – 12:00	Xiao-Han Liu	San-Huang Ke	Closing remarks
12:00 – 14:00	Lunch	Lunch	
14:00 – 14:25	Qu-Quan Wang	Hai-Lin Wang	
14:25 – 14:50	Zhi-Yuan Li	Ke-Yu Xia	
14:50 – 15:15	Hong Wei	Hang Zheng	
15:15 – 15:45	Tea/Coffee	Tea/Coffee	Excursion/Discussion
15:45 – 16:10		Xin-Hui Zhang]
16:10 – 16:35	Poster Presentations	Ren-Bao Liu]
16:35 – 17:00		Kai-You Wang	1
18:30		Banquet	

May 1 (Saturday)

08:00 - 08:30	Registration			
08:30 - 08:50	Light Breakfast			
Session Chair: Ren-Bao Liu				
08:50 - 09:00	Opening speech			
09:00 - 09:35	Chuang-Tian Chen: Deep-ultraviolet harmonic generation and applications			
09:35 – 10:00	Qi-Huang Gong : Composite materials for ultrafast and large third-order optical nonlinearity and photonic applications			
10:00 – 10:25	Hong Chen : Light manipulation in periodical and disordered structures made of metamaterials			
10:25 - 10:45	Tea/Coffee			
Session Chair: Jian Zi				
10:45 – 11:10	Che Ting Chan : A metamaterial slab as a lens, a cloak and something in between			
11:10 – 11:35	Xue-Hua Wang : Coherent control of quantum superposition state in photonic crystals via Zeeman and Stark effect			
11:35 – 12:00	Xiao-Han Liu: Amorphous photonic structures in nature			
12:00 – 14:00	Lunch			
Session Chair: Jian-Fang Wang				
14:00 – 14:25	Qu-Quan Wang : Plasmon-enhanced radiative and nonradiative energy transfer between semiconductor quantum dots			
14:25 – 14:50	Zhi-Yuan Li : Surface plasmon resonance in metal nanoparticles explored for novel applications			
14:50 – 15:15	Hong Wei : Plasmonic properties of Au/Ag nanostructures - from localized plasmons to propagating plasmons			
15:15 – 15:45	Tea/Coffee			
15:45 – 17:00	Poster Presentations			

May 2 (Sunday)

08:30 - 09:00	Light Breakfast			
Session Chair: Hong Chen				
09:00 - 09:35	Jian-Bai Xia : Electronic structure and transition property of II-type superlattice calculated with 8-band effective-mass theory			
09:35 – 10:00	Hong-Qi Xu : Electronic, optical and mechanical properties of semiconductor nanowires and nanowire heterostructures			
10:00 – 10:25	Zhe-Shuai Lin: Ab initio studies on nonlinear optical crystals			
10:25 - 10:45	Tea/Coffee			
Session Chair: Li-Gang Wang				
10:45 – 11:10	Ping-Heng Tan : Exciton energy transfer in carbon nanotubes: a photoluminescence excitation study			
11:10 – 11:35	Xiao-Dong Cui : Photocurrent generated by direct inter-band transitions in InGaAs/InAlAs two-dimensional electron gas			
11:35 – 12:00	San-Huang Ke : Electron transport through molecular nanojunctions: quantum interference transistor and thermoelectric effect			
12:00 – 14:00	Lunch			
Session Chair: Shi-Yao Zhu				
14:00 – 14:25	Hai-Lin Wang: Laser cooling of a silica optomechanical resonator			
14:25 – 14:50	Ke-Yu Xia: Cooling of a nanomechanical resonator to its ground state			
14:50 – 15:15	Hang Zheng: Spectral properties of localized exciton in deformable lattice			
15:15 – 15:45	Tea/Coffee			
Session Chair: Che Ting Chan				
15:45 – 16:10	Xin-Hui Zhang : Ultrafast dynamic study of spin and magnetization reversal in dilute magnetic semiconductor (Ga, Mn)As			
16:10 – 16:35	Ren-Bao Liu: Optical effects of pure spin currents			
16:35 – 17:00	Kai-You Wang: Domain walls in GaMnAs with perpendicular anisotropy			
18:30	Banquet			

May 3 (Monday)

08:30 - 09:00	Light Breakfast		
Session Chair: Zhu-An Xu			
09:00 - 09:35	Shi-Ning Zhu: Micro/nanostructure: materials & devices		
09:35 - 10:00	Yong-Fa Kong: Tetravalent ions doped lithium niobate crystals		
10:00 – 10:25	Zhi-Yi Wei: New progresses and applications of ultrafast laser pulse		
10:25 - 10:45	Tea/Coffee		
Session Chair: Hai-Qing Lin			
10:45 – 11:10	Xi-Hua Yang : Selective and efficient control of coherent population transfer with time-separated chirped pulses		
11:10 – 11:35	Shi-Yao Zhu : Quantum interference due to energy shifts and its effect on the spontaneous emission		
11:35 – 12:00	Closing remarks		
Afternoon	Excursion/Discussion		