

Concurrent session 2: Atomic, Molecular and Optical Physics

Friday, July 27, 2018

14:00 – 18:00	Concurrent session 2: Atomic, Molecular and Optical Physics
Venue:	Anthony Lau Building (E4), E4-1051
Chairpersons:	1. Hin-Lap Yip 2. Youtian Tao 3. Guichuan Xing
14:00 – 14:25	Keynote presentation
	Microfluidics for artificial photosynthesis of carbohydrates Xuming Zhang, The Hong Kong Polytechnic University. MC: Hin-Lap Yip
14:25 – 15:55	Invited presentations
14:25 – 14:40	Fermi Liquid Properties for Weakly Repulsive p-wave Fermi Gases Shanshan Ding, The University of Hong Kong. MC: Guichuan Xing
14:40 – 14:55	High-performance SERS substrates: fabrication and applications YanJun Liu, Southern University of Science and Technology. MC: Guichuan Xing
14:55 – 15:10	Heavy Metal Containing Terpolymers for Polymer Solar Cells Youtian Tao, Nanjing Tech University. MC: Guichuan Xing
15:10 – 15:25	Test Lorentz invariance with trapped Yb⁺ ions Wu Bian, Sun Yat-sen University. MC: Guichuan Xing
15:25 – 15:40	Production of Ultracold Molecule with Zeeman Deceleration and Laser Catalyzed Reaction Yang Liu, Sun Yat-sen University. MC: Guichuan Xing
15:40 – 15:55	Structural Phase Transition and Optical Property Investigation of Perovskite Crystal Rui Chen, Southern University of Science and Technology. MC: Guichuan Xing
15:55 – 16:05	Contributed presentations
	Dipolar collisions between ultracold NaRb molecules Junyu He, The Chinese University of Hong Kong. MC: Guichuan Xing
16:05 – 16:25	Tea/coffee break, poster, discussion
16:25 – 16:50	Keynote presentation
	Lead halide perovskite based optoelectronic devices and their applications Qinghai Song, Harbin Institute of Technology Shenzhen Graduate School. MC: Youtian Tao
16:50 – 17:50	Invited presentations
16:50 – 17:05	All-dielectric valley photonic crystals: Paving the way to topological nanophotonics Jian-Wen Dong, Sun Yat-sen University. MC: Youtian Tao
17:05 – 17:20	Structural Engineering of Graphene for Flexible and Ultrasensitive Mechanical Sensors Xuchun Gui, Sun Yat-sen University. MC: Youtian Tao
17:20 – 17:35	Bright and Efficient Light-Emitting Diodes Based on Perovskite Quantum Dots Kai Wang, Southern University of Science and Technology. MC: Youtian Tao

17:35 – 17:50	Ultrafast Carrier Dynamics in few-Layer MoS₂ Zhaogang Nie, Guangdong University of Technology. MC: Youtian Tao
17:50 – 18:00	Contributed presentations
	Persistent spin helix and its instability in spin-orbit coupled normal Bose gas Wai Ho Tang, The University of Hong Kong. MC: Youtian Tao
After 18:05	Banquet Dinner (Hotel: Galaxy Macau, Bus pick-up point & time: E4 G/F Lobby @ 18:05 pm)

Saturday, July 28, 2018

09:00 – 12:00	Concurrent session 2: Atomic, Molecular and Optical Physics
Venue:	Anthony Lau Building (E4), E4-1051
Chairpersons:	1. Kai Wang 2. Yanjun Liu
09:00 – 09:25	Keynote presentation
	Exciton-Phonon Interaction in 2D Materials Jun Zhang, Institute of Semiconductors, CAS. MC: Kai Wang
09:25 – 10:10	Invited presentations
09:25 – 09:40	Highly Stable Low-Threshold Lasing in Ruddlesden-Popper Perovskite Microplatelets Mingjie Li, Nanyang Technological University. MC: Kai Wang
09:40 – 09:55	Strong light-matter interaction in perovskite microcavities Qing Zhang, Peiking University. MC: Kai Wang
09:55 – 10:10	Observation of parity-time symmetry breaking transitions in a dissipative system of ultracold atoms Le Luo, Sun Yat-sen University. MC: Kai Wang
10:10 – 10:20	Contributed presentations
	Dielectrophoresis-actuated tunable optofluidic lenses for in-plane light manipulation Qingming Chen, The Hong Kong Polytechnic University. MC: Kai Wang
10:20 – 10:40	Tea/coffee break, poster, discussion
10:40 – 11:05	Keynote presentation
	Acoustic spin-redirection geometric phase Shubo Wang, City University of Hong Kong. MC: Yanjun Liu
11:05 – 11:50	Invited presentations
11:05 – 11:20	Optical Design for Advanced Tandem and Semitransparent Polymer Solar Cells Hin-Lap Yip, South China University of Technology. MC: Yanjun Liu
11:20 – 11:35	3R MoS₂ with Broken Inversion Symmetry: A Promising Ultrathin Nonlinear Optical Device Xinfeng Liu, National Center for Nanoscience and Technology. MC: Yanjun Liu
11:35 – 11:50	Three-body recombination near a narrow Feshbach resonance in 6Li Jiaming Li, Sun Yat-sen University. MC: Yanjun Liu
11:50 – 12:00	Contributed presentations
	Exitonic Excitation of a Superfluid Fermi Gas in a Double-layer Optical Lattice Johnson Chan, The University of Hong Kong. MC: Yanjun Liu
12:05 – 14:00	Buffet Lunch (venue: UM Chao Kuang Piu College, W21-G019)