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 MoS_2** 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 MoS_2 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)**