

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

17:35 – 17:50	<b>Ultrafast Carrier Dynamics in few-Layer MoS<sub>2</sub></b> Zhaogang Nie, Guangdong University of Technology. MC: Youtian Tao
<b>17:50 – 18:00</b>	<b>Contributed presentations</b>
	<b>Persistent spin helix and its instability in spin-orbit coupled normal Bose gas</b> Wai Ho Tang, The University of Hong Kong. MC: Youtian Tao
<b>After 18:05</b>	<b>Banquet Dinner (Hotel: Galaxy Macau, Bus pick-up point &amp; time: E4 G/F Lobby @ 18:05 pm)</b>

## Saturday, July 28, 2018

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