

Program

Conference Schedule: June 16, 2017 (Day 1)

Time	Session(s)			
8:30 – 9:00	<b>Registration</b>			
9:00 – 9:10	<b>Opening and Plenary Session</b> Chair: Prof. Michael Altman Venue: <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">Lee Wing Tat Lecture Theater (L-T-D)</a> ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )			
9:10 – 9:50	<b>Opening Speech</b> <b>Professor Wei Shyy</b> , Executive Vice-President & Provost (HKUST)			
9:10 – 9:50	<b>Professor Hai Qing Lin</b> (Beijing Computational Science Research Centre) "Wilson Ratios and Quantum Phase Transitions" [P]			
9:50 – 10:30	<b>Professor Minn-Tsong Lin</b> (National Taiwan University) "Scanning Tunneling Spectro-microscopic Study on Spintronic Emergent Materials" [P]			
10:30 – 11:00	<b>Photo Taking and Tea Break</b>			
11:00 – 11:40	<b>Professor Gui Lu Long</b> (Tsinghua University, Beijing) "Quantum Secure Direct Communication" [P]			
11:40 – 13:30	<b>Lunch Break</b>			
	<b>Session 1.1</b> <b>2D Materials</b> Chair: Prof. Wang Yao Venue: Room 2302  (Lifts <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">17-18</a> ) ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )	<b>Session 2.1</b> <b>Biophysics and Soft Matter</b> Chair: Prof. Yilong Han Venue: Room 2303  (Lifts <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">17-18</a> ) ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )	<b>Session 3.1</b> <b>Atomic and Quantum Information</b> Chair: Prof. Sunny Wang Venue: Room 2304  (Lifts <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">17-18</a> ) ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )	<b>Session 4.1</b> <b>Metamaterials and Plasmonic</b> Chair: Prof. Danyuan Lei Venue: Room 2306  (Lifts <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">17-18</a> ) ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )
13:30 – 13:45	<b>Maohai Xie</b> (HKU) "A STM study of epitaxial monolayer transition-metal dichalcogenides" [I]	<b>Yilin Wu</b> (CUHK) "Weak synchronization and large-scale collective oscillation in dense bacterial suspensions" [I]	<b>Shengwang Du</b> (HKUST) "Generating Narrowband Photon Pairs with Entanglement" [I]	<b>Kin Hung Fung</b> (PolyU) "Low-symmetry Dispersive Topological Photonic Systems" [I]
13:45 – 14:00				<b>Ho Ming Leung</b> (HKUST) "Giant Plasmonic Circular Dichroism in Ag Staircase Nanostructures" [C]
14:00 – 14:15	<b>Ning Wang</b> (HKUST) "Probing quantum transport in atomically thin transition metal dichalcogenides" [I]	<b>Wei Xu</b> (HKUST) "Direct numerical simulation of turbulent Rayleigh-Benard convection in a vertical thin disk" [C]	<b>Shizhong Zhang</b> (HKU) "Cold Atomic Gases with Higher Partial Wave" [I]	<b>Che Ting Chan</b> (HKUST) "Pseudo-spins in classical waves" [I]
14:15 – 14:30		<b>Hyocheon Park</b> (HKUST) "Observation of dynamic heterogeneity of Orai and STIM molecules before and after store-operated Ca <sup>2+</sup> entry" [C]		
14:30 – 14:45	<b>Jinglei Chen</b> (HKU) "Quantum Effects and Phase Tuning in Epitaxial Hexagonal and Monoclinic MoTe <sub>2</sub> Monolayers" [C]	<b>Kevin Chun Chan</b> (CityU) "Molecular Details of the PH domain of ACAP1 Protein Binding to PIP-containing Membrane" [C]	<b>Xianxin Guo</b> (HKUST) "Frequency-bin entanglement with tunable phase" [C]	<b>H.C. Ong</b> (CUHK) "Study of the angular momentum of light from plasmonic crystals" [C]
14:45 – 15:00	<b>Man Kit Cheng</b> (HKUST) "Large-area Epitaxial Growth of MoSe <sub>2</sub> via an Incandescent Molybdenum Source" [C]	<b>Jeffrey Burkhardtmeier</b> (HKUST) "Measuring the effect of laser-induced shock waves on nano-aggregates in liquid with Pump-Probe spectroscopy" [C]	<b>Xu-Chen Yang</b> (CityU) "Theory on the suppression of charge noise using barrier control of a singlet-triplet qubit" [C]	<b>Tsz Kit Yung</b> (HKUST) "Reflection phase measurements by thick-gap Fabry-Perot interferometry and correction of numerical aperture effect" [C]
15:00 – 15:15	<b>Jun-Qiu Zhang</b> (HKU) "One-dimensional phosphorus chain and two-dimensional blue phosphorene grown on Au(111) by molecular-beam epitaxy" [C]	<b>Kai Yin Leung</b> (HKUST) "Temporal Integration in Modular Neural Networks with Short-Term Synaptic Plasticity" [C]	<b>Chengxian Zhang</b> (CityU) "Enhancing the gate fidelity of singlet-triplet qubits using symmetric barrier control and optimized pulse sequences" [C]	<b>Xiaonan Zhang</b> (HKUST) "Acoustic Coherent Perfect Absorption" [C]
15:15 – 15:30	<b>Yawei Dai</b> (HKU) "Ultrathin layers of beta-tellurene grown on highly oriented pyrolytic graphite by molecular-beam epitaxy" [C]		<b>Bo Song</b> (HKUST) "Realization of symmetry-protected topological phase with ultracold S <sup>-1/3</sup> Yb fermions" [C]	<b>Ho-Pui Ho</b> (CUHK) "Optical trapping and optofluidics with localised heating in plasmonic random metallic nano-islands" [C]
15:30 – 16:00	<b>Tea Break</b> Venue: <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">Outside Room 2304</a> (Lifts <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">17-18</a> ) ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )			
	<b>Session 1.2</b> <b>Chemical Physics</b> Chair: Prof. Jeff Huang Venue: Room 2302  (Lifts <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">17-18</a> ) ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )	<b>Session 2.2</b> <b>Computational Physics</b> Chair: Prof. Junyi Zhu Venue: Room 2303  (Lifts <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">17-18</a> ) ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )	<b>Session 3.2</b> <b>Others</b> Chair: Dr. Xiao Xiao Venue: Room 2304  (Lifts <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">17-18</a> ) ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )	<b>Session 4.2</b> <b>Solar and Spin Physics</b> Chair: Prof. Stephen Tsang Venue: Room 2306  (Lifts <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">17-18</a> ) ( <a href="http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/roz/Map_HKUST.pdf</a> )
16:00 – 16:15	<b>Jian Fang Wang</b> (CUHK) "Active Plasmon Switching" [I]	<b>Dong-Bo Zhang</b> (CSRC) "Pre-melting hcp to bcc Transition in Beryllium" [I]	<b>Tat Shing Choi</b> (HKUST) "Congestion Dynamics in the Taiwan Highway System" [C]	<b>Sai Wing Tsang</b> (CityU) "18% High-Efficiency Air-processed Perovskite Solar Cells Made in a Humid Atmosphere of 70% RH" [I]
16:15 – 16:30			<b>Bo Li</b> (HKUST) "Synchronization stability optimization and the application in power grids" [C]	
16:30 – 16:45	<b>Chi-Hang Lam</b> (PolyU) "Emergent facilitation behavior in a distinguishable-particle lattice model of glass" [I]	<b>Xiaoxiao Fu</b> (CityU) "Energetics of hexagonal boron nitride nanostructures: edge dependence and truncation effect" [C]	<b>Tsz Ki Chau</b> (HKUST) "Possible domain pattern structures in modulated systems" [C]	<b>Philip C. Y. Chow</b> (HKUST) "Aggregation of molecular acceptors in non-fullerene organic solar cells: an optical study" [C]
16:45 – 17:00		<b>Jingzhao Zhang</b> (CUHK) "Hydrogen Surfactant Assisted Coherent Growth of GaN on ZnO" [C]	<b>Qi Bu</b> (HKUST) "Average Communicability and Network Topology" [C]	<b>Yaoguang Yu</b> (CityU) "A two step method to synthesize CoO photocatalyst for solar hydrogen evolution" [C]

17:00 – 17:15	<b>Ophelia K. C. Tsui</b> (HKUST) "Modulation of the Effective Viscosity of Polymer Films by Ultraviolet Ozone Treatment" [C]	<b>Feng Wang</b> (HKUST) "Superheat limit of hard-sphere crystals" [C]	<b>Rundong Zhao</b> (HKBU) "Interlocking mechanism between molecular gears attached to surfaces" [C]	<b>Haifeng Li</b> (UMacau) "Magnetic frustration in the SrRE <sub>2</sub> O <sub>4</sub> (RE = rare earth) compounds" [I]
17:15 – 17:30			<b>Pak Man Yiu</b> (HKUST) "Direct Observation of Current Pulse Induced Periodic Vibration in a Metallic Glass Foil" [C]	
17:30 – 17:45				<b>Kwing To Lai</b> (CUHK) "Coexistence of spin ordering and effective spin-half dimers in a new-structure-type ladder compound Sr <sub>2</sub> Co <sub>3</sub> S <sub>2</sub> O <sub>3</sub> " [C]

**Conference Schedule: June 17, 2017 (Day 2)**

Time	Session(s)			
	<b>Session 1.3</b> <b>Superconductor and Correlated Electrons</b> Chair: Prof. Swee Kuan Goh Venue: Room 2302 (Lifts <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">17-18</a> ) <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf</a>	<b>Session 2.3</b> <b>Topological Materials</b> Chair: Prof. Gyu Boong Jo Venue: Room 2303 (Lifts <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">17-18</a> ) <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf</a>	<b>Session 3.3</b> <b>Semiconductor Device Physics</b> Chair: Prof. Haifeng Li Venue: Room 2304 (Lifts <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">17-18</a> ) <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf</a>	<b>Session 4.3</b> <b>Particle, Nuclear and Astrophysics</b> Chair: Prof. Jenny Lee Venue: Room 2306 (Lifts <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">17-18</a> ) <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf</a>
9:00–9:30	<b>Jinguang Cheng</b> (IoP) "Temperature-pressure phase diagram and enhanced spin fluctuations near the optimal T <sub>c</sub> of FeSe under high pressure" [I]	<b>Rolf Lortz</b> (HKUST) "Nematic topological superconducting phase in Nd-doped Bi <sub>2</sub> Se <sub>3</sub> " [I]	<b>Guichuang Xing</b> (UMacau) "Efficient light emission from Metal-Halide Perovskites" [I]	<b>Stephen Ng</b> (HKU) "The Physics and Observations of Pulsar Wind Nebulae" [I]
9:30–9:45	<b>Qun Niu</b> (CUHK) "Quasilinear quantum magnetoresistance in pressure-induced nonsymmorphic superconductor CrAs" [C]	<b>Wensheng Gao</b> (HKUST) "Controlling Interface States in 1D Photonic Crystals by tuning Bulk Geometric Phases" [C]	<b>Hang Yin</b> (HKBU) "Thick Film High Performance Bulk-heterojunction Solar Cells Retaining 90% PCEs of the Optimized Thin Film Cells" [C]	<b>Yi Wang</b> (HKUST) "Inflation as a Particle Physics Collider" [I]
9:45–10:00	<b>Chang-woo Cho</b> (HKUST) "Magnetic torque and calorimetric evidence for the Fulde-Ferrell-Larkin-Ovchinnikov state in the KFe <sub>2</sub> As <sub>2</sub> superconductor" [C]	<b>Bowen Xia</b> (HKUST) "Prediction of some two-dimensional organic topological insulators" [C]	<b>Hrisheekesh Thachoth Chandran</b> (CityU) "Direct free carrier photogeneration in single layer and stacked organic photovoltaic devices" [C]	
10:00–10:15	<b>Yajian Hu</b> (CUHK) "Soft phonon modes in the vicinity of the structural quantum critical point" [C]	<b>Chang Liu</b> (SUSTC) "ARPES studies on selected topological materials" [I]	<b>Jing Liang</b> (HKUST) "Lattice-matched Metastable Zinc-blende MnSe <sub>1-x</sub> Te <sub>x</sub> on ZnTe and its Double-barrier Resonant Tunneling Diode Device" [C]	<b>P. M. Saz Parkinson</b> (HKU) "The Application of Machine Learning Techniques to Very High Energy Gamma-ray Astronomy with HAWC" [C]
10:15–10:30	<b>Benjamin T. Zhou</b> (HKUST) "The origin of bias independent conductance plateaus and zero bias conductance peaks in Bi <sub>2</sub> Se <sub>3</sub> /NbSe <sub>2</sub> hybrid structures" [C]		<b>Linhai Huang</b> (HKUST) "Noise induced spectral narrowing and frequency stabilization for zero-dispersive electromechanical resonators" [C]	<b>Siyi Zhou</b> (HKUST) "Partial Effective Field Theory Approach to Cosmological Collider" [C]
10:30–11:00	<b>Tea Break</b> Venue: <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">Lee Wing Tat Lecture Theater (LTD)</a> ( <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf</a> )			
11:00–12:30	<b>IAS and PSHK Nobel Lecture by Professor Duncan Haldane</b> "Topological Quantum Matter and Entanglement" Chair: Prof. Che Ting Chan Venue: <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">Lee Wing Tat Lecture Theater (LTD)</a> ( <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf</a> )			
12:30–14:00	<b>Lunch Break</b>			
	<b>Afternoon Session</b> Venue: <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">Lee Wing Tat Lecture Theater (LTD)</a> ( <a href="http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf">http://www6.cityu.edu.hk/apcms/rpz/Map_HKUST.pdf</a> )			
14:00–15:00	<b>Annual General Meeting</b> Chair: Prof. Ruiqin Zhang			
15:00–15:30	<b>Student Poster Sparkler Session</b> Chair: Prof. Nian Lin			
15:30–16:30	<b>Poster Session</b>			
16:30–16:45	<b>Award Presentation for best student talks, posters and poster sparklers</b> (Presenters: Prof. Ruiqin Zhang, etc) <b>Closing Remarks</b> Prof. Ruiqin Zhang, PSHK President			

[P] - Plenary lecture

[I] - Invited lecture

[C] - Contributed lecture