

# Program for Frontiers of Condensed Matter and Atomic Physics

--Joint workshop of Pennsylvania State University and Peking University

Organizers: Qi Li (Pennsylvania State University), Xincheng Xie (Peking University)

<b>May 18 (Wednesday) morning Ying Jie Conference Center, Press room</b>	
9:45- 10:30	Ceremony <b>President Spanier</b> (Pennsylvania State University) <b>President Zhou</b> (Peking University)
11:00	Lunch Banquet, Chia Tai International Center
<b>May 18 (Wednesday) afternoon Ying Jie Conference Center, Press Hall</b>	
1:00-2:00	Joint session of all workshops <b>Feng-Yun Lei</b> (雷风云) (Vice General Director,State Administration of Foreign Experts Affairs) (中国国家外国专家局教科文卫司副司长) <b>Prof. Zuoyan Zhu</b> Member of Chinese Academy of Science, Former Vice President of National Natural Science Foundation of China Editor General of Science China, Editor General of Chinese Science Bulletin
<b>May 18 (Wednesday) afternoon Ying Jie Conference Center, Room 2</b> <b>Chair: Qi Li, Xincheng Xie</b>	
2:20-2:30	Opening welcome remarks <b>Prof. Daniel Larson</b> (Dean, College of Science, Pennsylvania State University) <b>Prof. Enge Wang</b> (Provost, Dean, Peking University)
<b>May 18 (Wednesday) afternoon Ying Jie Conference Center, Room 2</b> <b>Chair: Daniel Larson</b>	
2:30-2:35	Overview of Department of Physics, Penn State <b>Moses Chan</b> (Pennsylvania State University)
2:35 -3:00	Can a Solid be a Superfluid <b>Moses Chan</b>
3:00-3:25	Energy Dissipation and Phase Coherence in Normal-metal/ Superconductor Hybrid Devices <b>Jian Wei</b> (Peking University)
3:25-3:50	Destructive Regime and Quantum Superconducting Fluctuation in Ultrasmall Al Loops <b>Ying Liu</b> (Pennsylvania State University)
3:50-4:00	Coffee Break, Ying Jie Conference Center
<b>May 18 (Wednesday) afternoon Ying Jie Conference Center, Room 2</b> <b>Chair: Xincheng Xie</b>	
4:00-4:25	Study of Resistance Switching in Oxide Heterostructures <b>Jinbo Yang</b> (Peking University.)
4:25-4:50	Electrical Control of Magnetic States Using Multiferroic Tunnel Junctions <b>Qi Li</b> (Pennsylvania State University)
4:50-5:15	Light-element Alloys under High Pressure <b>Ji Feng</b> (Peking University)
5:15 -5:40	Transport Studies of Individual Crystalline Nanowires Contacted by Superconducting Electrodes <b>Jian Wang</b> (Peking University)
6:00	Workshop dinner, Chia Tai International Center

<b>May 19 (Thursday) morning ICQM Conference Room 607, Science Building 5</b>	
<b>Chair: Qian Niu</b>	
8:30-8:55	Artificial Frustrated Magnets <b>Peter Schiffer</b> (Pennsylvania State University)
8:55-9:20	Graphene on Metal Surfaces <b>Zonghai Hu</b> (Peking University)
9:20-9:45	Semiconductor Nanospintronics <b>Nitin Samarth</b> (Pennsylvania State University)
9:45-10:10	Bose-Einstein Condensate in a Honeycomb Optical Lattice: Fingerprint of Superfluidity at the Dirac Point <b>Biao Wu</b> (Peking University)
10:10-10:35	Atomic Clocks <b>Kurt Gibble</b> (Pennsylvania State University)
10:35-11:00 Coffee Break, <b>ICQM Conference Room 607, Science Building 5</b>	
<b>May 19 (Thursday) morning Room2736, 7<sup>th</sup> Floor, Science Building 2</b>	
<b>Chair: Enge Wang</b>	
11:00-11:40	Reaching Out, Reaching Across: The Global Research University <b>Daniel Larson</b> (Verne M. Willaman Dean of the Eberly College of Science (ECOS), Penn State Univ. )
<b>May 19 (Thursday) morning ICQM Conference Room 607, Science Building 5</b>	
<b>Chair: Kurt Gibble</b>	
12:00 – 1:00	Lunch time discussion of Penn State faculty with undergraduate students
<b>May 19 (Thursday) afternoon ICQM Conference Room 607, Science Building 5</b>	
<b>Chair: Moses Chan</b>	
1:30-1:55	Berry Phase in Condensed Matter Physics <b>Qian Niu</b> (Peking University)
1:55-2:20	Composite Fermion Superconductor <b>Jainendra Jain</b> (Pennsylvania State University)
2:20-2:45	Probing Electron-phonon Coupling in High-Tc Cuprates <b>Junren Shi</b> (Peking University)
2:45-3:00 Coffee Break, ICQM	
<b>May 19 (Thursday) afternoon ICQM Conference Room 607, Science Building 5</b>	
<b>Chair: Xincheng Xie and Nitin Samarth</b>	
3:00 – 4:10	Panel discussions on areas collaborations and students training
4:30	President's alumni reception, Lake View Hotel