

**International Workshop on  
Functionality of Complex Materials in an Environment of  
Reduced Dimensionality or Broken Symmetry**

**Beijing Part, July 18<sup>th</sup>-19<sup>th</sup>, 2013**

***Scientific Program***

Thursday, July 18 <sup>th</sup> , Meeting Room 234, Building M, IOP, CAS	
09:00-09:15	<b>Welcome Speech</b>
09:15-10:50	<b>Session 1</b> <b>Chair: Xi Dai</b>
09:15-09:50	<b>Qikun Xue</b> ( <i>Tsinghua University</i> ) How Conventional Is the Unconventional Superconductivity?
09:50-10:25	<b>E. Ward Plummer</b> ( <i>Louisiana State University</i> ) The Marriage of Spin and Lattice by the Minister of Charge at the Surface of Layered Transition Metal Compounds
10:25-10:50	Coffee Break and Photo

10:50-12:00	<b>Session 2</b> <b>Chair: E. Ward Plummer</b>
10:50-11:25	<b>Zhong Fang</b> ( <i>Institute of Physics, CAS</i> ) Quantum Anomalous Hall Effect in Magnetic Topological Insulators
11:25-12:00	<b>René Matzdorf</b> ( <i>University of Kassel</i> ) Luttinger Liquids Studied by Scanning Tunnelling Spectroscopy
12:00	Lunch Break (IOP Restaurant)

<b>Session 3</b>	
<b>Chair: Jiandi Zhang</b>	
14:00-14:35	<b>Jak Tchakhalian</b> ( <i>University of Arkansas</i> ) Mott Electrons Orbitals at the Interface
14:35-15:10	<b>Donglai Feng</b> ( <i>Fudan University</i> ) Mechanism and Manipulation of the Emergent Behaviors at Oxide Interfaces
15:10-15:45	<b>Kyle Shen</b> ( <i>Cornell University</i> ) Photoemission Spectroscopy of Artificial Quantum Materials and Interfaces
15:45-16:20	<b>Yihong Wu</b> ( <i>National University of Singapore</i> ) Edge-contact and Field Emission Study of Two-dimensional Carbon Using a Nanoprobe
16:20	Laboratory Tour

<b>Friday, July 19<sup>th</sup>, Meeting Room 234, Building M, IOP, CAS</b>	
<b>Session 4</b>	
<b>Chair: Jiandong Guo</b>	
08:45-09:20	<b>Xiaoqing Pan</b> ( <i>University of Michigan-Ann Arbor</i> ) Probing the Structure and Dynamics of Ferroelectric Domain Walls with Atomic Resolution in Real Time
09:20-09:55	<b>Xi Dai</b> ( <i>Institute of Physics, CAS</i> ) Search for Topological Insulators in Mix Valence Compounds with Strong Correlation Effects
09:55-10:30	<b>Jinfeng Jia</b> ( <i>Shanghai Jiao Tong University</i> ) Topological Superconductor and Majorana Fermion
10:30-10:50	Coffee Break

<b>10:50-12:00</b>	<b>Session 5</b> <b>Chair: Jinfeng Jia</b>
10:50-11:25	<b>T. Zachariah Ward</b> ( <i>Oak Ridge National Laboratory</i> ) Selectively Tuning Order Parameters in Low Dimensional Manganites
11:25-12:00	<b>Changgan Zeng</b> ( <i>University of Science and Technology of China</i> ) Novel Photoelectric Effects in 2D Interface Systems
12:00	Lunch Break (IOP Restaurant)

<b>13:30-15:50</b>	<b>Session 6</b> <b>Chair: Jak Tchakhalian</b>
13:30-14:05	<b>Tom Wu</b> ( <i>King Abdullah University of Science and Technology</i> ) Percolative Transport and Kondo Effect at Oxide Interface
14:05-14:40	<b>Jiandi Zhang</b> ( <i>Louisiana State University</i> ) Toward the Ultimate Critical Thickness of “Dead” Oxide Layer
14:40-15:15	<b>Zhaoliang Liao</b> ( <i>Louisiana State University</i> ) The Critical Behavior of Ultra Thin $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ Films
15:15-15:50	<b>Jiandong Guo</b> ( <i>Institute of Physics, CAS</i> ) The Control of Cation Stoichiometry in MBE Growth of Complex Oxide Films
15:50	Closing Remarks