

## International Workshop on

### Recent Progress in the Functionality of the Artificial Oxide Structures

Beijing, June 10-11, 2015

### *Scientific Program*

Wednesday, June 10, Meeting Room M236, IOP, CAS	
09:00-09:10	Welcome Speech
	<b>Session 1</b> Chair: Kuijuan Jin
09:10-09:50	<b>E. Ward Plummer</b> ( <i>Louisiana State University, USA</i> ) “The Origin of Charge Density Waves in Quasi Two-Dimensional Materials”
09:50-10:30	<b>Jak Tchakhalian</b> ( <i>University of Arkansas, USA</i> ) “Interface and geometry engineered novel phases of nickelates”
10:30-10:50	Break and group photo
	<b>Session 2</b> Chair: Jak Tchakhalian
10:50-11:30	<b>Rob Moore</b> ( <i>stanford university, USA</i> ) “Significant Tc enhancement in superconducting FeSe films due to interfacial mode coupling with oxide substrate”
11:30-12:00	<b>Jian Shen</b> ( <i>Fudan University, China</i> ) “Chemical Ordering Suppresses Large-scale Electronic Phase Separation in Doped Manganites”
12:00	Lunch Break

<b>Session 3</b> <b>Chair: E. Ward Plummer</b>	
13:30-14:10	<b>Ke Zou</b> ( <i>Yale University, USA</i> ) “ <u>LaTiO<sub>3</sub>/KTaO<sub>3</sub> interfaces: A new two-dimensional electron gas system</u> ”
14:10-14:50	<b>Jiandi Zhang</b> ( <i>Louisiana State University, USA</i> ) “ Surface termination, interface mixing, and layer-by-layer doping variation of ultrathin manganite films”
14:50-15:20	<b>Jiandong Guo</b> ( <i>Institute of Physics, CAS, China</i> ) "Effect of the dopants ordering on the metallicity of La <sub>2/3</sub> Sr <sub>1/3</sub> MnO <sub>3</sub> thin films"
15:20-15:50	<b>Kuijuan Jin</b> ( <i>Institute of Physics, CAS, China</i> ) “A new non-destructive readout by using photo-recovered surface potential contrast “
15:50-16:05	Break

<b>Session 4</b> <b>Chair: Rob Moore</b>	
16:05-16:45	<b>Ying-Hao Chu</b> , ( <i>National Chiao Tung University, Taiwan</i> ) “Exploration of Emergent Transition Metal Oxide Monolayers “
16:45-17:25	<b>Jiyan Dai</b> ( <i>The Hong Kong Polytechnic University, China</i> ) “Strain Effect and Magnetoresistance of the LaAlO <sub>3</sub> and SrTiO <sub>3</sub> Heterostructures”
17:25-17:55	<b>Cheng Song</b> ( <i>Tsinghua University, China</i> ) “Electrical control of phase transition and orbital occupancy in

	manganites”
17:55	Dinner

Thursday, June 11, Meeting Room M236, IOP, CAS	
Session 5 Chair: Zhong Fang	
09:00-09:40	<b>Yimei Zhu</b> ( <i>Brookhaven National Laboratory, USA</i> ) “Thickness dependent structural modification of the PrSrMnO/SrTiO interface”
09:40-10:10	<b>Jinxing Zhang</b> ( <i>Beijing Normal University, China</i> ) "Mechanical Switching of Nanoscale Multiferroic Phase Boundaries"
10:10-10:25	Break

Session 6 Chair: Jiandi Zhang	
10:25-11:05	<b>Zhong Fang</b> ( <i>Institute of Physics, CAS, China</i> ) “ Topological Semimetals”
11:05-11:35	<b>Donglai Feng</b> ( <i>Fudan University, China</i> ) “Recent progress on the FeSe interfacial superconductivity”
11:35-12:05	<b>Hao Yang</b> ( <i>Suzhou University, China</i> ) “Oxygen Vacancies Effects in Eu <sub>0.5</sub> Ba <sub>0.5</sub> TiO <sub>3-d</sub> Multiferroic

	Thin Films”
12:05	Lunch Break

Thursday, June 11, Meeting Room M236 , IOP, CAS	
Session 7 Chair: Jiandong Guo	
13:30-14:10	<b>Zhiming Wang</b> ( <i>The Paul Scherrer Institute, Switzerland</i> ) “Itinerant polaronic carriers in a SrTiO <sub>3</sub> -based two-dimensional electron gas
14:10-14:40	<b>Chun-Gang Duan</b> ( <i>East China Normal University, China</i> ) “Recent Progress in highly ordered double-perovskite Bi <sub>2</sub> FeMnO <sub>6</sub> epitaxial thin film”
14:40-15:10	<b>Xiuliang Ma</b> ( The Institute of Metal Research, Chinese Academy of Sciences, China) “A periodic array of flux-closure quadrants in ferroelectric PbTiO <sub>3</sub> films”
15:10-15:25	Closing remark by Ward Plummer
15:25-17:30	Laboratory Tour
17:30	Dinner