

## Program

### ☰ Sunday, June 24, 2019

Venue: Tianping Hotel 天平宾馆 (No. 185, Tianping Road, Shanghai)

Arrival and registration

Casual dinner

### ☰ Monday, June 24, 2019

Place: Wanshun Hall (天平宾馆 6 楼万顺厅)

08:50-09:00	Prof. Jinfeng Jia, opening.
<b>Session 1. Plenary &amp; Invited Talk</b>	
09:00-09:40	Creating New Scientific Knowledge J. Michael Kosterlitz, <i>Brown University, USA</i>
09:40-10:20	Imaging on Electron Density Fluctuation in Nano-scales Wei Lu, <i>Shanghai Institute of Technical Physics, CAS</i>
10:20-10:50	Tea Break
10:50-11:20	Inducing and controlling magnetism through atomic manipulation Alexander Weismann, <i>Christian-Albrechts-Universität zu Kiel</i>
11:20-12:00	Semiconductor engineering by atomic scale structural control in graphene nanoribbons Roman Fasel, <i>Swiss Federal Laboratories for Materials Science and Technology</i>
12:10	Lunch
<b>Session 2. Oral and Invited Talk</b>	
14:00-14:30	Electronic-Structure Engineering of Graphene by Semiconductor Intercalation Shixuan Du, <i>Institute of Physics, CAS</i>
14:30-15:00	Epitaxial graphene and silicene Thierry Angot, <i>Aix-Marseille University</i>

15:00-15:15	Investigation on Band-gap Engineering for Graphene Transistors Benfdila Arezki, <i>University M. Mammeri, Tizi-Ouzou</i>
15:15-15:45	Tea Break
15:45-16:15	Engineering Dirac Materials: from graphene to artificial 2D lattice Tao Xu, <i>Shanghai University</i>
16:15-16:30	Bi-layer formation of water on graphene Jun Nakamura, <i>The University of Electro-Communications (UEC-Tokyo)</i>
16:30-16:45	Functionalization of graphene by N doping: Application to the oxygen reduction reaction Haruyuki Matsuyama, <i>The University of Electro-Communications (UEC-Tokyo)</i>
16:45-17:00	Optoelectronic Properties of the Ag <sub>2</sub> S/Graphene Interface Javier Fdez. Sanz, <i>Dpto. Química Física, Univ. Sevilla</i>
17:10	Dinner

## ☰ Tuesday, June 25 , 2019

**Place:** Wanshun Hall (天平宾馆 6 楼万顺厅 )

<b>Session 3. Oral and Invited Talk</b>	
09:00-09:30	On-surface synthesis of planar dendrimers via divergent cross-coupling reaction Peinian Liu, <i>East China University of Science and Technology</i>
09:30-09:45	Ultra High Density Information storage with a Porphyrin Derivative Molecule Jinming Cai, <i>Kunming University of Science and Technology</i>
09:45-10:00	In situ synthesis of C≡C bond on surface and the mechanism investigations at single molecular level Chenhui Shu, <i>East China University of Science and Technology</i>

10:00-10:15	Electronic Decoupling of Organic Layers by a Self-assembled Supramolecular Network on Au (111) Haiming Guo, <i>Soochow University, China</i>
10:15-10:45	Tea Break
10:45-11:15	C-H activations and their selectivities on metal surfaces Qing Li, <i>Soochow University, China</i>
11:15-11:30	Symmetry breakdown of a symmetric molecule on surfaces by lattice mismatch Qigang Zhong, <i>Soochow University, China</i>
11:30-11:45	Resolving quinoid structure in poly-para-phenylene Bingkai Yuan, <i>Shanghai Jiaotong University</i>
11:45-12:00	Fabrication of Organic Porous Structures Via Different Routes Hui Zhang, <i>Kunming University of Science and Technology</i>
12:10	Lunch
<b>Session 4. Oral and Invited Talk</b>	
14:00-14:30	Ballistic tracks in graphene nanoribbons Christoph Tegenkamp, <i>Chemnitz University of Technology</i>
14:30-14:45	Edge-state-induced stacking of zigzag graphene nano-ribbons Taizo Asano, <i>The University of Electro-Communications (UEC-Tokyo)</i>
14:45-15:00	Molecular arrangement and electronic properties of CoPc on B passivated Si(111) Susi Lindner, <i>Technische Universität</i>
15:00-15:15	Temperature dependent charge transport on C-shape nanowires templated by DNA origami Enrique Samano, <i>Universidad Nacional Autónoma de México</i>
15:15-15:45	Tea Break

15:45-16:15	Vacuum level in an infinite solid as a unified scheme for intrinsic band alignment Shengbai Zhang, <i>Rensselaer Polytechnic Institute, USA</i>
16:15-16:45	Validity of Anderson rule for interfaces between 2D semiconductors Friedhelm Bechstedt, <i>Friedrich-Schiller-Universitaet Jena</i>
16:45-17:00	Weak Antilocalization in Metallic Films of Atomic Thickness in (Au,Tl)/Si(111) $\sqrt{7}\times\sqrt{7}$ System Nikita Denisov, <i>Institute of Automation and Control Processes, FEB RAS</i>
17:00-	Time for free activities

### ☰ Wednesday, June 26, 2019

**Place: Wanshun Hall ( 天平宾馆 6 楼万顺厅 )**

<b>Session 5. Oral and Invited Talk</b>	
09:00-09:30	Epitaxial Growth and Properties of 2D Topological Antimonene & Heterostructures Yeliang Wang, <i>Beijing Institute of Technology</i>
09:30-10:00	Controlling the Epitaxial Structure and Properties of 2D Boron Sheets Kehui Wu, <i>IOP, CAS, China</i>
10:00-10:15	Realization of a hole-doped Mott insulator on a triangular silicon lattice and its zero-bias-anomaly Fangfei Ming, <i>San Yat-Sen University</i>
10:15-10:45	Tea Break and Group photo(10:35)
10:45-11:15	Germanene by Segregation, Large Area Stanene and Plumbene by Deposition Junji Yuhara, <i>Nagoya University</i>
11:15-11:30	Purely one dimensional charge order of transition metal chalcogenide nanowire Yingshuang Fu, <i>Huazhong University of Science and Technology</i>
11:30-12:00	Stain effect on Quantum Spin Hall Phase in WTe <sub>2</sub> -type Transition Metal Chalcogenides Junwei Liu, <i>Hong Kong University of Science and Technology</i>

12:10	Lunch
<b>Session 6. Oral and Invited Talk</b>	
14:00-14:30	Magnetic-field-induced quantized anomalous Hall effect in intrinsic magnetic topological insulator MnBi <sub>2</sub> Te <sub>4</sub> Yuanbo Zhang, <i>Fu Dan University</i>
14:30-15:00	Hidden spin-polarized states at the interface of layered materials investigated by spin- and angle-resolved photoemission Taichi Okuda, <i>Hiroshima University</i>
15:00-15:30	Spin Structures of Atomic Layers formed on Solid Surfaces Kazuyuki Sakamoto, <i>Osaka University</i>
15:30-16:00	Tea Break
16:00-16:30	Barrier-bound states in flat-band systems Jhinwan Lee, <i>KAIST, Korea</i>
16:30-16:45	Coexistence of Zeeman- and Rashba-type spin-split bands for a Sn atomic layer on SiC(0001) Koichiro Yaji, <i>The University of Tokyo</i>
16:45-17:15	The Electronic Bandstructure of Atomically Sharp Dopant Structures in Silicon Justin Wells, <i>Norwegian University of Science and Technology</i>
17:15-17:30	Inverted Dirac-electron population in topological insulators (Sb,Bi) <sub>2</sub> Te <sub>3</sub> Kazuki Sumida, <i>Tokyo Institute of Technology</i>
17:35	Night Tour on the Huang Pu River (with dinner on the cruise ship) Please gather at the gate of Tianping Hotel at 17:35

☰ **Thursday, June 27, 2019**

**Place:** Wanshun Hall (天平宾馆 6 楼万顺厅)

<b>Session 7. Oral and Invited Talk</b>	
09:00-09:30	Traveling in Meta Space-Time: particle dynamics in Floquet-Bloch Crystal Niu Qian, <i>The University of Texas at Austin</i>
09:30-10:00	Structural Dynamics in Atomic Wire Systems studied by ultrafast-RHEED: excitation, metastable states and relaxation Michael Horn von Hoegen, <i>Duisburg-Essen University</i>
10:00-10:15	Capturing Interface Structures by Fast Surface X-ray Diffraction Measurement Tetsuroh Shirasawa, <i>National Institute of AIST, Japan</i>
10:30-11:00	Tea Break
11:00-11:30	Enhanced Spectroscopies of Semiconductor Quantum Dots and their Interfaces Dietrich RT Zahn, <i>Chemnitz University of Technology</i>
11:30-11:45	Surface dipole induced potentials on metals observed by noncontact scanning nonlinear dielectric potentiometry Kohei Yamasue, <i>Tohoku University</i>
11:45-12:00	Fingerprint of charge redistribution at hybrid inorganic/organic interfaces revealed by differential reflectance spectroscopy Syllke Blumstengel, <i>Humboldt-Universität zu Berlin</i>
12:10	Lunch
<b>Session 8. Oral and Invited Talk</b>	
14:00-14:30	Au atomic wires on Si(hhk) substrates: Recent advances from experiment and theory Simone Sanna, <i>Justus-Liebig-University Giessen</i>
14:30-14:45	Spin pairing versus spin chains at Si(hhk)-Au surfaces Christian Braun, <i>Paderborn University</i>
14:45-15:00	Fabrication of one-dimensional magic cluster arrays using a vicinal surface as a template Martin Franz, <i>Technische Universität Berlin</i>

15:00-15:15	The role of step edge fluctuations and hydrogen in the phase transition of Si(553)-Au Julian Plaickner, <i>Leibniz Institut für Analytische Wissenschaften</i>
15:15-15:45	Tea Break
15:45-16:15	Vibrational Properties of Epitaxial Low-dimensional Si Structures Grown on Ag Surfaces Dmytro Solonenko, <i>Technical University of Chemnitz, Germany</i>
16:15-16:45	Nano-Raman Investigation of Monolayer MoS <sub>2</sub> at the 2D/Plasmonic Heterointerface Mahfujur Rahaman, <i>Technical University of Chemnitz, Germany</i>
16:45-17:00	Frequency shifts and Raman signatures at ferroelectric domain interfaces of LiNbO <sub>3</sub> and LiTaO <sub>3</sub> modeled by first principles Sergej Neufeld, <i>Universität Paderborn</i>
17:00-17:15	Surface Atomic Structure Analysis by Raman Spectroscopy Norbert Esser, <i>Leibniz-Institute für Analytische Wissenschaften - ISAS e.V.</i>
17:20	Banquet

## ☰ Friday, June 28 , 2019

**Place: Wanshun Hall (天平宾馆 6 楼万顺厅)**

<b>Session 9. Plenary and Invited Talk</b>	
09:00-09:40	Atomic-level control of high temperature superconductor materials for unveiling their pairing mechanism Qikun Xue, <i>Tsinghua University, China</i>
09:40-10:20	Topological Excitations in 1D and 2D Charge Density Wave Systems Han Woong Yeom, <i>POSTECH, Korea</i>
10:20-10:50	Tea Break

10:50-11:20	Majorana-Josephson Interferometer Shunqing Shen, <i>The University of Hong Kong</i>
11:20-11:50	Direct investigation of cuprate CuO <sub>2</sub> planes by scanning tunneling microscopy Xucun Ma, <i>Tsinghua University</i>
12:00	Lunch
<b>Session 10. Oral and Invited Talk</b>	
14:00-14:30	Interface induced Ising superconductivity and anomalous quantum Griffiths singularity in ultrathin crystalline Pb films grown on Si Jian Wang, <i>Peking University, China</i>
14:30-14:45	Enhancement of parallel critical magnetic field in 2D superconductors with Rashba effect Satoru Ichinokura, <i>Tokyo Institute of Technology</i>
14:45-15:00	Charge density waves assisted superconductor-insulator transition in the anisotropic 2DEG Andrei Matetskii, <i>Institute of Automation and Control Processes, FEB RAS</i>
15:00-15:30	Tea Break
15:30-16:00	Quasi-one-dimensional plasmons: prospects and challenges Herbert Pfnür, <i>Leibniz Universität</i>
16:00-16:30	Thermal electric properties of topological semimetals Shuang Jia, <i>Peking University, China</i>

**Notes:**

40 min is scheduled for each **Plenary talk**

30 min is scheduled for each **Invited talk**

15 min is scheduled for each **Oral talk**