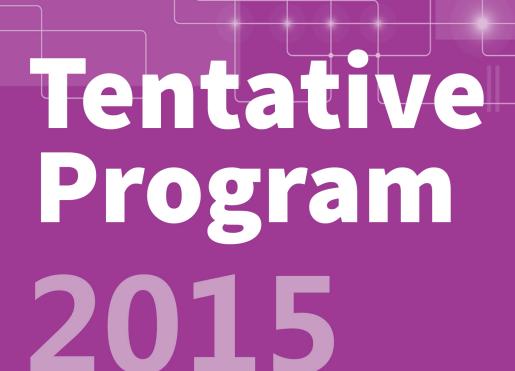
Materials

International Symposium on Physics and Device Applications of Two-dimensional Materials











Nanjing University
July 12-15



AGENDA

DAY 1 Monday, July 13

OPENING CEREMONY

Venue: 1st floor, Zhixing Hall

A.M.	8:45-9:00	Opening Cerem	ony
	9:00-9:35	Kang L. Wang	UCLA, USA
		Topological Insu	ılator and other 2D materials
	9:35-10:10	Construction of	Chinese Academy of Sciences, China 2D Atomic Crystals on Transition Metal Surfaces: Graphene, nene, and Hafnene
	10:10-10:30	Photo shooting	g and coffee break
	10:30-11:05	Philip Wong	Stanford University, USA
		Making Electrica	al Contacts to Large-Area, CVD Grown 2D Layered Materials
	11:05-11:40	Xiaodong Xu	University of Washington, USA
		Excitons in 2D S	emiconducting Heterostructures
	11:40-12:15	Lianmao Peng	Peking Univeresity, China
		Graphene based	d high performance Hall elements and integrated circuits

Session 1

Venue: 1st floor, Zhixing Hall

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P.M.	14:00-14:35	Manish Chhowalla Rutgers University, USA Phase Engineered Transition Metal Dichalcogenides as Electrodes for Energy and Electronics	
	14:35-15:10	Dapeng YuPeking University, ChinaMagnetotransport and Photoelectric Properties of Graphene VerticalStructures	
	15:10-15:45	Peide Ye Purdue University, USA From Black Phosphorus to Phosphorene	
	15:45-16:20	Tianling Ren Tsinghua University, China A Universal Method to Develop Novel Graphene Devices	
	16:20-16:55	Xinran Wang Nanjing University, China Electron transport and device physics in monolayer MoS ₂	
	16:55-18:00	Poster Session	
	18:00-20:00	Banquet	

Session 2

Venue:	2 nd	floor,	Zhixing	Hall
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P.M.	14:00-14:35	Andrea Ferrari University of Cambridge, UK Advances in Raman Spectroscopy of Graphene and Layered Materials
	14:35-15:10	Feng Wang UC Berkeley, USA
	15:10-15:45	Wang Yao The University of Hong Kong, HK, China Novel exciton systems in transition metal dichalcogenides monolayers and heterobilayers
	15:45-16:20	Ting Yu Nanyang Technological University, Singapore Tuning Electronic and Valley Structures of Two-dimensional Semiconductors by Applying Electrical and Magnetic potentials
	16:20-16:55	Anlian Pan Hunan University, China Bandgap Engineering on Low Dimensional Semiconductors: from 1D to 2D Structures
	16:55-18:00	Poster Session
	18:00-20:00	Banquet

DAY 2 Tuesday, July 14

Session 1

Venue: 1st floor, Zhixing Hall

8:35-9:05	Xiangfeng Duan UCLA, USA
	Two-Dimensional Materials, Heterostructures, and Devices
9:05-9:40	Wanlin Guo Nanjing University of Aeronautics and Astronautics, China Mechanical-electric-magnetic coupling and energy conversion in two-dimensional materials
9:40-10:15	Doron Naveh Bar Ilan University, Israel
	Spin pumping and mode locked lasers from topological insulators
10:15-10:30	Coffee break
10:30-11:05	Zhihong Chen Purdue University, USA
	Graphene Based All Spin Logic
11:05-11:40	Kazuhito Tsukagoshi NIMS, Japan
	Atomically thin semiconducting channels for future nano-electronics
	9:05-9:40 9:40-10:15 10:15-10:30 10:30-11:05

	11:40-12:15	Zhun-Yong Ong Institute of High Performance Computing, Singapore Theoretical analysis of electron mobility in single-layer MoS₂ field-effect transistors
P.M.	14:00-14:35	Jianbin Xu Chinese University of Hong Kong, HK, China
		Investigation on Graphene-like Materials and their Related Devices
	14:35-15:10	Han Wang University of Southern California, USA Bridging the Gap – Rediscovering Black Phosphorus as an Anisotropic Layered Material for Electronics and Optoelectronics
	15:10-15:45	Yang Chai Hong Kong Polytechnic University, HK, China Growth, Vibrational and Electronic Properties of Two-Dimensional Layered Transition Metal Dichalocogenides
	15:45-16:05	Coffee break
	16:05-16:40	Ning Wang Hong Kong University of Science and Technology, HK, China Probing the Electronic States and Impurity Effects in Graphene and MoS ₂ through Quantum Capacitance Measurement
	16:40-17:15	Yuanbo Zhang Fudan University, China
	17:15-17:50	Lin He Beijing Normal University, China
		Gauge fields and non-Abelian gauge fields in graphene
	17:50-18:25	Faxian Xiu Fudan University, China

Session 2

Venue: 2nd floor, Zhixing Hall

A.M.	8:35-9:05	Jun Lou Rice University, USA
		Synthesis, Characterization and Engineering of Two-Dimensional Materials
	9:05-9:40	Hua Zhang Nanyang Technological University, Singapore
		Synthesis and Applications of Novel Two-Dimensional Nanomaterials
	9:40-10:15	Hongtao Yuan Stanford University, USA Layered Chalcogenides: from Electronic Structure Evolution to Spin-Coupled Valley Current
	10:15-10:30	Coffee break
	10:30-11:05	Yunqi Liu Chinese Academy of Sciences, China
		Synthesis of graphene directly on dielectric substrates
	11:05-11:40	Zheng Liu Nanyang Technological University, Singapore Development of Some Novel Two-dimensional Crystals and their Heterostructures
	11:40-12:15	Guihua Yu University of Texas, Austin, USA

P.M.	14:00-14:35	Qihua Xiong Nanyang Technological University, Singapore
		Charge-Induced Second-Harmonic Generation in Bilayer WSe₂
	14:35-15:10	Linyou Cao North Carolina State University, USA
		Engineering Light-Matter Interactions at Two-dimensional TMDC Materials
	15:10-15:45	Zheyu Fang Peking University, China
		Plasmonic Hot Electrons doping of 2D Materials
	15:45-16:05	Coffee break
	16:05-16:40	Xiaobo Yin University of Colorado, USA Nonlinear Spectroscopy of Symmetry Breaking 2D Semiconductor Atomic Monolayer
	16:40-17:15	Pingheng Tan Chinese Academy of Sciences, China Interface coupling in twisted multilayer graphenes probed by Raman pectroscopy
	17:15-17:50	Yuerui Lu Australian National University, Australia
	17:50-18:25	Jun He National Center for Nanoscience and Technology, China Two dimensional layered and non-layered semiconductors: design, synthesis and applications

DAY 3 Wednesday, July 15

Session 1

Venue: 1st floor, Zhixing Hall

A.M.	8:30-9:05	Chongwu Zhou <i>University of Southern California, USA</i> Controlled growth, growth mechanism, and device applications of two-dimensional semiconductors
	9:05-9:40	Kaihui Liu Peking University, China Optical Spectroscopy of Individual Carbon Nanotubes with Defined Atomic Structure
	9:40-10:15	Kaili Jiang Tsinghua University, China
		High throughput imaging techniques for carbon nanotubes
	10:15-10:30	Coffee break
	10:30-11:05	Ke-qin Zhang Soochoow University, China
		Static electric force driven self-assembly of hollow graphene spheres

11:05-11:40	Fengqiu Wang Nanjing University, China High-performance photodetectors based on planar SWNT/graphene hybrid film
11:40-12:15	Zhipei Sun Aalto University, Finland
	Ultrafast photonics based on two-dimensional layered materials

Session 2

Venue: 2nd floor, Zhixing Hall

A.M.	8:30-9:05	Fengnian Xia Yale University, USA
		Graphene and Beyond for Nanophotonics
	9:05-9:40	Zongfu Yu University of Wisconsin, USA Engineering the flow of light in ultra-thin materials for efficient and multispectral photodetectors
	9:40-10:15	Zhenhua Ni Southeast University, China Modulation of the properties of two dimensional materials through defect engineering
	10:15-10:30	Coffee break
	10:30-11:05	Yumeng You Southeast University, China
	11:05-11:40	Qiong Ma MIT, USA
		Hot Carriers and Photoresponse in Graphene-based Optoelectronic Devices
	11:40-12:15	Peng Zhou Fudan University, China
		Nonvolatile Memory Based on Few-Layer Materials

PRACTICAL INFORMATION

Accommodation

Jingli Hotel (晶丽酒店)

Address No.7, West Beijing Road, Gu Lou (南京市鼓楼区北京西路 7 号)

Tel (025)83714270

(025)80848000

Transport

1. From Nanjing Lukou International Airport 55 minutes by taxi (around 130RMB)

2. From Nanjing Railway Station 15 minutes by taxi (around 17 RMB)

3. From Nanjing South Railway Station 30 minutes by taxi (around 25 RMB)

Conference Venue

Zhixing Hall, Nanjing University (Gulou Campus) 南京大学(鼓楼校区)知行楼



Contact

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The Collaborative Innovation Center of Advanced Microstructures (CICAM), a close alliance made up of the national laboratories and centers from Nanjing Univ., Fudan Univ., Shanghai Jiao Tong Univ., Zhejiang Univ., Univ. of Science and Technology of China, and the Hefei Institutes of Physical Science, plus the Huawei Technologies, an advanced industry symbol of China, was formally authenticated by the Ministry of Education and the Ministry of Finance of China in 2014 under the 2011 Plan Initiatives. This alliance, led by Nanjing Univ.,is committed to undertaking advanced R&D activities in broad areas of Science and Technology of Microstructures at the crossover of condensed matter physics, materials sciences, information sciences, and energy technologies, focusing on cutting-edge and emergent sciences and technologies of artificial bandgap matters, correlated electron systems, and small quantum systems, among others in the inter-disciplines, while substantial efforts will be devoted to transfer of research findings into relevant applications.

Under the comprehensive supports of the national administrations and R&D funding agencies, the major strategies developed in the CICAM include recruiting high-level and aggressive younger talents, establishing and promoting advanced research infrastructures and capabilities, and spinning-off innovative technologies for next-generations of quantum devices and integrated systems. One of the CICAM's missions is to establish itself as a leading institution of international reputations in the field of advanced microstructures where research findings and inventions catalyze Chinese industry and meet their core technology needs. The center is also committed to training researchers and drawing prominent scientists from across the country to feed Chinese dreams that rejuvenate the country through science and technology.