

The 8th International Workshop on 2D Material

Tuesday, June 29

Start from 8:00am @ Beijing time

9:00am @ Tokyo and Seoul time

Join Tencent Meeting

Please confirm with Prof. Iwasa, Prof. Cheong and Prof. Yuanbo Zhang.

8:00-8:05 Host Chair: Hongtao Yuan Opening remark 5 min

8:05-8:10 Host Chair: Yuanbo Zhang Opening remark 5 min

1 st session		Chair: Yoshihiro Iwasa		
8:10-8:50	Invited J1	Control of residual carbon impurity in hBN single crystals obtained at high pressure	Takashi Taniguchi	National Institute for Materials Science
8:50-9:30	Invited K1	Adsorbates physics on correlated 2D materials	Han Woong Yeom	Institute for Basic Science
9:30-10:10	Invited C1	Tunable correlated electronic phases in twisted bilayer semiconductors	Lei Wang	Nanjing University
10:10-10:30		Group-Photo session and 20-min Break		
10:30-10:50	YR J1	Modulation of Dirac electronic states in topological insulator/ferromagnet heterostructure studied by ARPES	Takemi Kato	Tohoku University
10:50-11:10	YR K1	Van der Waals metal-semiconductor field-effect transistor with the Fermi-level pinning-free Schottky gate approaching the intrinsic Boltzmann switching limit	Yeon Ho Kim	Korea University
11:10-11:30	YR C1	Topological superconductivity in a stoichiometric transition metal dichalcogenide 2M-WS₂	Yiwei Li	ShanghaiTech University
11:30-13:00		Lunch		
2 nd Session		Chair: Hyeonsik Cheong		
13:00-13:40	Invited J2	Novel optical science in monolayer transition metal dichalcogenide and its heterostructure	Kazunari Matsuda	Kyoto University
13:40-14:20	Invited K2	FETs with van der Waals heterojunction	Seongil Im	Yonsei University

14:20-15:00	Invited C2	Optical manipulation of electronic dimensionality in a quantum material	Wentao Zhang	Shanghai Jiao Tong University
15:00-15:20		20-min Break		
15:20-15:40	YR J2	Machine learning analysis of valley exciton physics in monolayer WSe₂	Kenya Tanaka	Kyoto University
15:40-16:00	YR K2	Twist angle dependent lattice distortion and exciton energy variations in MoS₂/WSe₂ heterostructure	Jungcheol Kim	Sogang University
16:00-16:20	YR C2	Quasi-one-dimensional exciton with phonon sidebands in layered Silicon diphosphide	Ling Zhou	Nanjing University
16:20-16:40	YR J3	Reducing Fermi pinning effect between monolayer WS₂ and ITO electrode for high performance transparent solar cell	Xing He	Tohoku University
16:40-17:00	YR K3	Ultrasensitive WSe₂/α-In₂Se₃ NIR photodetector based on ferroelectric gating effect	Hyeok Jun Jin	KAIST
17:00-17:20	YR C3	Experimental evidence of chiral symmetry breaking in Kekulé-ordered graphene	Changhua Bao	Tsinghua University

Wednesday, June 30**Start from 8:10am @Beijing time****9:10am @Tokyo and Seoul time**

3 rd session		Chair: Yuanbo Zhang		
8:10-8:50	Invited J3	Correlated Chern insulators and isospin Pomeranchuk effect in twisted bilayer graphene	Yu Saito	University of California at Santa Barbara
8:50-9:30	Invited K3	Superconductivity emerging from a stripe charge order in IrTe₂ nanoflakes	Jun Sung Kim	Institute for Basic Science
9:30-10:10	Invited C3	The observation of in-plane quantum Griffiths singularity in two-dimensional crystalline superconductors	Jian Wang	Peking University
10:10-10:30		20-min Break and Group-Photo session		
10:30-10:50	YR J4	Nonlinear anomalous Hall effect in trigonal superconductor PbTaSe₂	Yuki Itahashi	University of Tokyo
10:50-11:10	YR K4	Direct observation of magnetic order in few-layer FePS₃ by X-PEEM	Youjin Lee	Seoul National University
11:10-11:30	YR C4	Possible unconventional two-band superconductivity in MoTe₂	Jiawei Luo	Peking University
11:30-13:00		Lunch		
4 th Session		Chair: Hongtao Yuan		
13:00-13:20	YR J5	Low temperature liquid phase growth of van der Waals crystals and their nonlinear optical properties and applications	Chao Tang	Tohoku University
13:20-13:40	YR K5	Temperature-dependent terms in the Auger coefficients in WS₂ monolayer	Donggyu Kim	Sogang university
13:40-14:00	YR C5	Direct observation of global elastic scattering induced by impurities on graphene	Can Wang	Nanjing University
14:00-14:20	YR J6	In-situ TEM observation of laser induced carbon nanostructure growth	Ryosuke Senga	AIST
14:20-14:40	YR K6	Barristor-based sensor for ultrasensitive and label-free detection of DNA hybridization	Naebong Jeong	Konkuk University
14:40-15:00	YR C6	Magnetization-tuned topological phase transition in MnBi₂Te₄ devices	Jun Ge	Peking University
15:00-15:20		20-min Break		

15:20-15:40	YR J7	Growth and post-annealing of Germanene at the interfaces between an van der Waals material and Ag(111)	Seiya Suzuki	National Institute for Materials Science
15:40-16:00	YR K7	Mechanical properties of various graphene nano-electro-mechanical resonators	Yugyeong Je	Ewha Womans University
16:00-16:20	YR C7	Observation of Multiple Charge Density Wave Phases in Epitaxial Monolayer 1T-VSe₂ Film	Junyu Zong	Nanjing University
16:20-16:40	YR J8	Influence of carbon impurities in hexagonal boron nitride crystals on carrier transport properties of adjacent graphene through van der Waals interface	Momoko Onodera	University of Tokyo
16:40-17:00	YR C8	Light-tunable surface state and hybridization gap in magnetic topological insulator MnBi₈Te₁₃	Haoyuan Zhong	Tsinghua University
17:00-17:20	YR C9	Direct Syntheses of Graphene Films on Glass Substrates toward Macroscopic Light-Dimming-Related Applications	Fan Zhou	Peking University

Thursday, July 1 Extended Tutorial Session:

Start from 8:30am @Beijing time

9:30am @Tokyo and Seoul time

Student Summer School Lectures (60 + 15min each)

Extended Tutorial Session				
8:30-9:30	Tutorial Lecture1	Second harmonic generation: a symmetry probe for 2D materials	Shiwei Wu	Fudan University
10:00-11:30	Tutorial Lecture2	Topological states of quantum matter in 2D materials	Jing Wang	Fudan University