2024 SNU-ISSP WORKSHOP

May 24, 2024, Seoul National Univ.



SNU-ISSP Research Center

for Dynamic Properties of Functional Quantum Materials

2024 SNU-ISSP WORKSHOP

(May 24, 2024 / Seoul National Univ.)

Program

Time	Title	Speaker							
	Scientific Session I. (Session chair: Prof. Hyunyong Choi)								
09:00 - 09:10 (10 min)	Congratulatory Address	Prof. Hyung Do Kim, Department Chair (SNU)							
09:10 - 09:20 (10 min)	Introduction of SNU Physics and IAP	Prof. Changyoung Kim (SNU)							
09:20 - 09:40 (20 min)	Introduction of ISSP	Director Prof. Zenji Hiroi (ISSP)							
09:40 - 10:10 (30 min)	Development of laser-ARPES in LASOR of ISSP	Prof. Takeshi Kondo (ISSP)							
10:10 - 10:30 (20 min)	Terahertz spectroscopy for anomalous Hall effect	Prof. Ryusuke Matsunaga (ISSP)							
10:30 - 11:00 (30 min)	Coffee Break								
11:00 - 11:30 (30 min)	High magnetic field facility at ISSP	Prof. Yoshimitsu Kohama (ISSP)							
11:30 - 12:00 (30 min)	Hofstadter butterfly in multilayer graphenes under a moire potential	Prof. Joonho Jang (SNU)							
12:00 - 13:30 (90 min)	Lunch (Duremidam Cafeteria, 5F, Bldg.75-1)								
13:30 - 15:30 (120 min)	Poster Session / Bldg.25-1								
	Scientific Session II. (Session chair: Prof. Seun	g-sup Lee)							
15:30 - 16:00 (30 min)	Spontaneous breaking of mirror symmetry in a cuprate beyond critical doping	Dr. Saegyeol Jung (SNU)							
16:00 - 16:20 (20 min)	Kinetic inductance in magic angle twisted bilayer graphene	Dr. Miuko Tanaka (ISSP)							
16:20 - 16:50 (30 min)	Quantum light sources in 2D van der Waals materials	Prof. Jieun Lee (SNU IAP)							
16:50 - 17:10 (20 min)	Superconductivity in Ternary Telluride Sc6MTe2 Prof. Yoshihiko Okamo with 3d, 4d, and 5d Transition Metals (ISSP)								
17:10 - 17:20 (10 min)	Group Photo and Closing remark Prof. Changyoung Kim (
18:00 -	Banquet (Marronnier Hall, Hoam Faculty House, Bldg.125)								

Poster Session

P-01	Time-reversal symmetry broken states in MnSb and CrSb
P-02	Observation of the Spin-polarized Surface State of Bismuth Using Time-, Spin-, and Angle-resolved Photoemission Spectroscopy
P-03	Broken Kramers degeneracy in altermagnetic MnTe
P-04	OTime-, spin- and angle-resolved photoemission spectroscopy with 10.7-eV ultrashort pulsed laser at 1-MHz repetition rate visualizing photoexcited spin-polarized electronic states
P-05	Kondo interaction in FeTe and its role in the magnetic order
P-06	Temperature dependence of the energy gap in KAlGe Takuma Nishida (ISSP, Japan)
P-07	Superconductivity in isolated single copper oxygen plane
	The doping-dependent evolution of superconductivity of multilayered cuprate Junhyeok Jeong (ISSP, Japan) Ferromagnetic insulating substrate for magnetic proximity studies: LaCoO3 thin film
	Electronic structures of Gd-based skyrmion materials studied by angle-resolved photoemission spectroscopy
	Atomically thin two-dimensional Kagome flat band on silicon surface Jae Hyuck Lee (Seoul Nat'l Univ, Korea) A d-orbital derived flat band close to the Fermi level realizing a ferromagnetic Kondo
P-13	lattice in Fe5-xGeTe2 Soonsang Huh (ISSP, Japan) Controlling structure and interfacial interaction of monolayer TaSe2 on bilayer graphene Hyobeom Lee (Kangwon Nat'l Univ, Japan)
P-14	Ultrafast control of the crystal structure in VTe2 Takeshi Suzuki (ISSP, Japan)
P-15	Thickness dependent properties of Fe3GeTe2 thin film
P-16	high-resolution and time-resolved laser ARPES studies on kagome superconductor CsV3Sb5 Yigui Zhong (ISSP, Japan)
P-17	Tuning the electronic structure of FeTe via epitaxial strain
P-18	Study of Charge Density Waves in LaTe3 by Time-resolved ARPES with Wavelength-tunable Pump Kecheng Liu (ISSP, Japan)
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P-19	Strain-induced altermagnetic bandstructure in RuO2 thin films
P-20	Study of the superconducting gap in the Kagome lattice superconductor CsV3Sb5 by low-temperature and high-resolution laser ARPES
P-21	Modification of localized surface plasmon resonance in liquid via conductive atomic force microscopy
P-22	Superconducting gap of iron-based superconductor Fe(Se,Te) investigated by low-temperature and high-resolution laser ARPES
P-23	Near 1 mm2 two-dimensional luminescent-sheet enabled by surface lattice resonance Yeonjeong Koo (POSTECH, Korea)
P-24	Exploring Photo-Induced Superconductivity in Iron-Based Superconductors through Time- and Angle-Resolved Photoemission Spectroscopy Hao Zheng (ISSP, Japan)
P-25	Polarization-optimized tip-enhanced strong coupling in single quantum dots Jinhyuk Bae (POSTECH, Korea)
P-26	Kinetic inductance in magic angle twisted bilayer graphene Miuko Tanaka (ISSP, Japan)
P-27	Gate-tunable interlayer exciton dynamics in twisted WSe2 homobilayer Hansol Kim / Gyusu Lee kim (Seoul Nat'l Univ, Korea)
P-28	Interplay of valleys, layers and band topology towards tunable interacting quantum phases in a bilayer graphene superlattice Yungi Jeong (Seoul Nat'l Univ, Korea)
P-29	Modulation of the second harmonic generation in two-dimensional antiferromagnet CuCrP2S6
P-30	Observation of local two-fold magnetic behavior in Sr2Ir1-xRhxO4 by MOKE measurement Hyeokjun Heo / Jeongha An (Seoul Nat'l Univ, Korea)
P-31	Ultrafast moiré exciton dynamics in type-I MoSe2/WS2 heterobilayer Jiwon Park (Seoul Nat'l Univ, Korea)
P-32	Large Photoelasticity in Topological Antiferromagnet Mn3Sn Studied by Coherent Acoustic Phonon
P-33	Ultrafast Floquet engineering of Fermi-polaron resonances in charge-tunable monolayer WSe2 devices
P-34	Anisotropic conductivity and anomalous Hall conductivity in silicon studied by polarization-resolved terahertz spectroscopy
P-35	Spin-Polarized Photocarrier Dynamics in WSe2/hBN/Bi2Se3 van der Waals Tunnel Device
	Minji Noh (Seoul Nat'l Univ, Korea) Magneto-photoluminescence on perovskite-type feroelectric semiconductor CsGel3 Hiroaki Fujikawa (ISSP, Japan)

Minimum topological magnetism in the Hund's excitonic insulator GdGaI
Characterization of a graphene-hBN superlattice field effect transistor
Effect of "trimer frustration" on phase transitions in layered LiVO2 Keita Kojima (ISSP, Japan)
Construction of the Cryogenic Scanning Probe Microscopy Namkyung Lee (Seoul Nat'l Univ, Korea)
Synthesis and thermoelectric properties of van der Waals crystal Ta2Ni3Te5 Hiroto Isomura (ISSP, Japan)
Graphene band structure modulation using antiferroelectric moire substrate Myungjin Jeon (Seoul Nat'l Univ, Korea)
Synthesis and superconductivity of hexagonal Zr6RuBi2 without spatial inversion symmetry Kousuke Yuchi (ISSP, Japan)
General Tensor Network Framework for 2D Frustrated Spin Systems Fengfeng Song(ISSP, Japan)
Fermi Surface Spin Texture and Topological Superconductivity in Spin-Orbit Free Noncollinear Antiferromagnets
Schwinger effect in S=1 antiferromagnetic spin chains Koichi Okazaki (ISSP, Japan)
Quantum Valley Hall effect without Berry curvature Rasoul Ghadimi (Seoul Nat'l Univ, Korea) Supersymmetry and topological phases
Euler band topology in spin-orbit coupled magnetic systems Vertical Olive (Second New Yorks)
Dynamics of Biological Chemical Reaction Networks in Vivo Using the Matrix Product State Method
Quantum valley and subvalley Hall effect in large-angle twisted bilayer graphene Chiranjit Mondal (Seoul Nat'l Univ, Korea)
Tensor network simulations for non-orientable surfaces Haruki Shimizu (ISSP, Japan)
Origin of correlated gaps in twisted bilayer graphene
Supercurrent distribution in real-space and anomalous paramagnetic response in a superconducting quasicrystal Takumi Fukushima (ISSP, Japan)



HOW TO USE

SNU Gwanak campus has more than 200 buildings, all of which have their own numbers.

150

Office of Admission

151

115 Main Gate

MoA

The map is divided into 11 zones, using area codes A-J.

If you have a building number, find its area code under 'Buildings', and locate the place. If you only have a name of the place, find the number under 'Category'.

Note that some buildings are not shown on the map.

(c) Gate to parking area

2 Open parking area

Bus stops

Airport Limousine Roadway

Health care Dining

🗂 Cafés

BUILDINGS

_	OILD	11105
Н	1~3	College of Humanities
Н	4	SHINYANG Hall II
Н	5~7	College of Humanities
Н	8	D00SAN Humanities Hall
Н	9~10	College of Education
Н	10-1	Education Information Hall
Н	11	College of Education
н	12	Teacher Training Enrichment Hall
Н	13	College of Education
Н	14	College of Humanities
В	15	College of Law
В	15-1	College of Law
В	16	College of Social Sciences
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Under construction

В	16-1	SHINYANG Hall III	1	58	College of Business Administration
В	17	College of Law	T	59	Graduate School of Business
G	18~19	College of Natural Sciences	С	60	Administration Building
С	20~21	College of Pharmacy	Н	61	Center for Teaching and Learning & Facult of Liberal Education
С	22~28	College of Natural Sciences	С	62	University Library
G	29	College of Pharmacy	С	62-1	KWANJEONG Library
G	29-1	College of Pharmacy	C	63	Student Center
Ε	30~32	College of Engineering	В	64	IBK Communication Center
E	32-1	HAEDONG Student Center	G	65	Faculty Club
Ε	33~37	College of Engineering	В	67	Dure Cultural Center
Ε	38	Global Education Center for Engineers	G	69	Institute of Laboratory Animal Resources
E	39	College of Engineering	ī	70	University Museum
E	43	College of Engineering	T	71, 71-1	• Gym nasium
E	43-1	Multimedia Lecture Building I	T	71-2	POSCO Sports Center
G	44-1	SHINYANG Hall I	В	72	LawLibrary
G	45~48-1	Observatories	В	73	University Cultural Center
1	49	Design Center & Concert Hall	T	74	Arts Research Center
1	50~52-2	College of Fine Arts	D	75	University Newspaper
1	53~55	College of Music	D	75-1	3rd Cafeteria
С	56	College of Natural Sciences	Н	76	4th Cafeteria
I	57~57-1	Graduate School of Public Administration (GSPA)	A	80	SNUVeterinary Medical Teaching Hospita

Α	80-1	Bioengineering Building
Α	81 •	Biotechnology Center
ī	82	Graduate School of Environmental Studies (GSES)
I	83	Multimedia Lecture Building II
В	84	Centennial Building, College of Law
Α	85	College of Veterinary Medicine
Α	86	Center for Dental Research and Clinic
Α	97~98	Institute of Environmental Protection and Safety
В	101	Asia Center
С	102	Office of Information Systems and Technology
В	103	Kyujanggak Archives
G	104	Inter-University Semiconductor Research Center
G	105	Institute for Molecular Biology & Design
н	109	Cafeteria Jahayon
Н	111	Café PASCUCCI
I	113	Dongwon Dining Hall
ĸ	121	Presidential Residence
K	122	Faculty Apartments
K	125~125-2	HOAM Faculty House
K	126~127	Guest House
С	129	Sangsan Mathematical Science Building
E	130	Electrical Engineering & Science Research Institute
F	131	Research Institute of Advanced Materials
F	132	Institute of New Media and Communications
F	133	Automation and Systems Research Institute
F	135	Research Institute of Energy and Resources

A	137~137-1	Language Education Institute
A	137-2	DAELIM International House
F	138	Institute of Computer Technology
0	139, 139-1	Inter-University Center for Natural Science Research
1	140~140-2	Graduate School of International Studies (GSIS)
1	141~142	College of Pharmacy
A	150	Office of Admissions
A	151	Museum of Art (MoA)
A	152	Office of International Affairs (CJ International Center)
Α	152-1	LOTTE International Hall
Α	153	WOOJEONGWON
D	200	College of Agriculture and Life Sciences
D	201	National Instrumentation Center for Environmental Management
D	203	SPC Research Building
ī	220	College of Liberal Studies
I	221	Graduate School of Public Health (GSPH)
ī	222	College of Human Ecology
F	301~302	College of Engineering
F	310	Engineer House
F	311	Institute of Chemical Processes
F	312~313	Institute of Advanced Machinery and Design
F	314	Advanced Automotive Research Center
F	316	Structure Experiment Building
D	500	College of Natural Sciences
J	900~906, 918	Gwanak-sa Graduate House
J	919	Gwanak-sa Undergraduate House
J	920	Gwanak-sa Student Center
J	921~926	Gwanak-sa Undergraduate House
J	931~935	Gwanak-sa Family House
J	936	Staff Apartments
K	940	Main Research Center
K	941~941-1	Child Educare Center
K	942-945	R&D Centers
K	946	BK International House
K	950	International Vaccine Institute

HOTEL INFORMATION

☐ Hoam Faculty House (https://hoam.snu.ac.kr)



Address: 125 Bldg. 1 Gwanak-ro, Gwanak-gu, Seoul, Korea Tel: +82-1688-7745



			Time					
Depature HOAM	4:20	5:00	6:00	7:00	8:00	9:10	10:10	11:10
HOAM →T1→T2	12:20	13:30	14:30	15:30	16:50	18:10	19:30	
Arrival HOAM	6:50	8:00	9:00	10:10	11:20	12:20	13:15	14:30
T2→T1→ HOAM	15:40	17:00	18:00	19:00	20:00	21:00	21:10	22:30

- Location of the bus stop at Airport Terminal 2: Gate 27
- Location of the bus stop at Airport Terminal 1: Gate 6B 1
- Fares: 17,000 Korean won (You may get a ticket from the bus driver by cash)
- It takes 1 hour 40 minutes from Airport Terminal 2 (within 100 minutes)
- It takes 1 hour 20 minutes from Airport Terminal 1 (within 80 minutes)
- 6017 Route: Terminal 2 → Terminal 1 → Hoam Faculty House
- As of February 9, 2023.

