

## Timetable

JST	Mon. 25/Oct.	Tue. 26/Oct.	CST	IST	CEST	MDT	
10:30		<b>I-7</b> <b>S. Masuda</b>	9	7	3	18 (-1)	
11:00		<b>I-8</b> <b>S. Duhm</b>	10		4	19 (-1)	
11:30		Breakout		11	8		
12:00		<i>Lunch</i>	5			20 (-1)	
12:30							
13:00		Welcome: H. Mori Opening: J. Yoshinobu	<b>T-1</b> <b>[Tutorial]</b> <b>T. Ozaki</b>	12	9	6	21 (-1)
13:30		<b>I-1</b> <b>W. Chen</b>					
14:00		<b>I-2</b> <b>Q. Bao</b>	<i>Break</i>	13	10	7	22 (-1)
			O-4: Y. Hamamoto				
14:30	O-1: M. S. Al Mamun	O-5: M. Shibuta	14	11	8	23 (-1)	
	Breakout	<b>I-9</b> <b>I. Hamada</b>					
15:00	<i>Break</i>	O-6: S. Kera	15	12	9	0	
	<b>I-3</b> <b>J. Tang</b>	Breakout					
15:30	<b>I-4</b> <b>J. Zhu</b>	<i>Break</i>	16	13	10	1	
16:00	O-2: A. Fleurence	O-7: A. Opitz					
16:30	Breakout	O-8: Q. Wang	17	14	11	2	
	<i>Break</i>	<b>I-10</b> <b>F. C. Bocquet</b>					
17:00	<b>I-5</b> <b>T. Komeda</b>	O-9: Y. Nakayama	18	15	12	3	
		Breakout					
17:30	<b>I-6</b> <b>J. Weissenrieder</b>	<i>Break</i>	19	16	13	4	
		<b>I-11</b> <b>P. Tegeder</b>					
18:00	O-3: K. Takeyasu	Breakout	20	17	14	5	
	Breakout						
18:30	Short Presentation (P1 – P6)	Short Presentation (P7 – P12)	21	18	15	6	
19:00	Poster Session	Poster Session					
19:30							

note T: tutorial lecture (50 min talk + 10 min Q&A), I: invited (25 min talk + 5 min Q&A),

# Timetable

(continued)

JST	Wed. 27/Oct.	Thu. 28/Oct.	CST	IST	CEST	MDT
10:30	<b>I-12</b> <b>S. Park</b>	<b>I-17</b> <b>J. Guo</b>	9	7	3	18 (-1)
11:00	<b>I-13</b> <b>O. L. A. Monti</b>	O-16: K. Ozawa	10	8	4	19 (-1)
		O-17: R. Ugalino				
11:30	Breakout	Breakout				
12:00	<i>Lunch</i>	<i>Lunch</i>	11	9	5	20 (-1)
12:30						
13:00	<b>T-2</b> <b>[Tutorial]</b> <b>S. Shin</b>	<b>T-3</b> <b>[Tutorial]</b> <b>J. Takeya</b>	12	10	6	21 (-1)
13:30						
14:00	<i>Break</i>	<i>Break</i>	13	11	7	22 (-1)
	O-10: L. T. Ta	O-18: H. Yoshida				
14:30	O-11: S. Tanaka	O-19: H. Ishii				
15:00	<b>I-14</b> <b>K. Dani</b>	<b>I-18</b> <b>T. Suzuki</b>	14	12	8	23 (-1)
	O-12: I. Matsuda	O-20: M. Horio				
15:30	Breakout	Breakout				
	<i>Break</i>	<i>Break</i>				
16:00	O-13: R. Wallauer	O-21: A. Sahu	15	13	9	0
	O-14: T. K. Yamada	O-22: A. Patra				
16:30	<b>I-15</b> <b>J. Uhlig</b>	<b>I-19</b> <b>A. Ishizaki</b>				
17:00	O-15: J. Schnadt	<b>I-20</b> <b>M. Rossi</b>	16	14	10	1
	Breakout					
17:30	<i>Break</i>					
18:00	<b>I-16</b> <b>T. Fritz</b>	Closing S. Kera + $\alpha$	17	15	11	2
	Breakout					
18:30	Short Presentation (P13– P18)					
19:00	Poster Session		18	16	12	3
19:30						

O: contributed oral (10 min talk + 5 min Q&A), P: poster (60 min + 5 min short oral presentation)

## Monday, 25 / Oct. / 2021

- 13:00 Welcome (Hatsumi Mori, Director of ISSP, Univ. Tokyo)
- 13:05 Opening Remarks (Jun Yoshinobu, Chair of ASOMEA-X)
- Chair: Jianxin Tang (Soochow Univ.)
- 13:30 I-1 **Wei Chen**, *National University of Singapore, Singapore*  
“Interface Engineering Enabled Ohmic Contacts for 2D Materials”
- 14:00 I-2 **Qinye Bao**, *East China Normal University, China*  
“Interface Energetics in Perovskite Solar Cells”
- 14:30 O-1 **Muhammad Shamim Al Mamun**, *Tohoku University, Japan*  
“UV/Thermally Induced Isomerization of Nitro-spiropyran on MoS<sub>2</sub> Lattice Observed by MoS<sub>2</sub> Field Effect Transistor”
- 14:45 Breakout Room Session
- 15:00 Break
- Chair: Qinye Bao (East China Normal Univ.)
- 15:15 I-3 **Jianxin Tang**, *Soochow University, China*  
“Interfacial “Anchoring Effect” Enables Efficient Blue Perovskite LEDs”
- 15:45 I-4 **Junfa Zhu**, *University of Science and Technology of China, China*  
“In-situ Investigations of Metal Electrodes/Perovskite Interfacial Structures”
- 16:15 O-2 **Antoine Fleurence**, *Japan Advanced Institute of Science and Technology, Japan*  
“Band Engineering in an Epitaxial Two-dimensional Honeycomb Si<sub>6-x</sub>Ge<sub>x</sub> Alloy”
- 16:30 Breakout Room Session
- 16:45 Break

Monday, 25 / Oct. / 2021

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Chair: Ryuichi Arafune (NIMS)

- 17:00 I-5 **Tadahiro Komeda**, *Tohoku University, Japan*  
“Spin State of Single Molecule Magnet Adsorbed on Superconducting NbSe<sub>2</sub> Surface Using Scanning Tunneling Microscopy”
- 17:30 I-6 **Jonas Weissenrieder**, *Royal Institute of Technology, Stockholm, Sweden*  
“Synthesis and Reactivity of a Model Catalyst: Isolated Fe<sub>1</sub>O<sub>3</sub> Sites on Pt(111) and Cu<sub>2</sub>O(100)”
- 18:00 O-3 **Kotaro Takeyasu**, *University of Tsukuba, Japan*  
“Role of Pyridinic Nitrogen in the Mechanism of the Oxygen Reduction Reaction on Carbon Electrocatalysts”

18:15 Breakout Room Session

Chair: Hiroyuki Yoshida (Chiba Univ.)

18:30 Poster Short Presentation

P-1 **Yoshihisa Harada**

P-2 **Tsuyoshi Takaoka**

P-3 **Younghyun Choi**

P-4 **Kaishu Kawaguchi**

P-5 **Xiaoni Zhang**

P-6 **Fumihiko Ozaki**

19:00 Online Poster Session (~20:00)

Tuesday, 26/Oct./2021

Chair: Ikutaro Hamada (Osaka Univ.)

10:30 I-7 **Shigeru Masuda**, *The University of Tokyo, Japan*  
“Electronic States at Organic-metal Interface Studied by MAES, UPS, and DFT Calculation”

11:00 I-8 **Steffen Duhm**, *Soochow University, China*  
“Photoelectron Spectroscopy Reveals Inversion Layers in Hybrid Organic-Silicon Heterojunctions”

11:30 Breakout Room Session

11:45 Lunch

Chair: JunYoshinobu (ISSP, Univ. Tokyo)

13:00 T-1 **Taisuke Ozaki**, *The University of Tokyo, Japan*  
[Tutorial Lecture] “Theory of Core-level Photoelectron Spectroscopy”

14:00 Break

Chair: Steffen Duhm (Soochow Univ.)

14:15 O-4 **Yuji Hamamoto**, *Osaka University, Japan*  
“Hybrid Image Potential States in Lead Phthalocyanine on Graphene”

14:30 O-5 **Masahiro Shibuta**, *Osaka City University, Japan*  
“Confined Hot Electron Relaxation at the Molecular Heterointerface of the Size-Selected Plasmonic Noble Metal Nanocluster and Layered C<sub>60</sub>”

14:45 I-9 **Ikutaro Hamada**, *Osaka University, Japan*  
“Toward Accurate Description of Organic Semiconductors and Organic/Metal Interfaces from First Principles”

15:15 O-6 **Satoshi Kera**, *Institute for Molecular Science, NINS, Japan*  
“Energy Band Dispersion Modified by Phonon and Vibronic Couplings”

15:30 Breakout Room Session

15:45 Break

Tuesday, 26/Oct./2021

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Chair: Kouki Akaike (AIST)

- 16:00 O-7 **Andreas Opitz**, *Humboldt-Universität zu Berlin, Germany*  
“Fermi Level Pinned Molecular Donor/Acceptor Junctions: Reduction of Induced Carrier Density by Interfacial Charge Transfer Complexes”
- 16:15 O-8 **Qi Wang**, *Soochow University, China*  
“Studies of Organic Heterostructures on Coinage Metal Substrates”
- 16:30 I-10 **François C. Bocquet**, *Forschungszentrum Jülich GmbH, Germany*  
“Insights into the Collective Electronic Losses at Surfaces with Momentum Resolution”
- 17:00 O-9 **Yasuo Nakayama**, *Tokyo University of Science, Japan*  
“Exciton Energy-momentum Dispersion in the Single Crystal Pentacene Probed by Low-energy Angle-resolved Electron Energy-loss Spectroscopy”

17:15 Breakout Room Session

17:30 Break

Chair: Yasuo Nakayama (Tokyo Univ. Sci.)

- 17:45 I-11 **Petra Tegeder**, *Ruprecht-Karls-Universität Heidelberg, Germany*  
“Electronic Properties of Interfaces with N-Heteropolycyclic Molecules”

18:15 Breakout Room Session

Chair: Yoichi Yamada (Univ. Tsukuba)

18:30 Poster Short Presentation

P-7 **Takashi Yamada**

P-8 **Yuri Hasegawa**

P-9 **Haruki Sato**

P-10 **Syed A. Ab Rahman**

P-11 **Masato Iwasawa**

P-12 **Yuki Gunjo**

19:00 Online Poster Session (~20:00)

## Wednesday, 27/Oct./2021

Chair: Keshav Dani (OIST)

10:30 I-12 **Soohyung Park**, *Korea Institute of Science and Technology, Republic of Korea*  
“Study on the Electronic Structure of van der Waals Heterointerfaces:  
2D Semiconductor with Functional Organic Molecules”

11:00 I-13 **Oliver L. A. Monti**, *University of Arizona, USA*  
“Tailoring the Optical and Electronic Response in 2D Materials”

11:30 Breakout Room Session

11:45 Lunch

Chair: Kozo Okazaki (ISSP, Univ. Tokyo)

13:00 T-2 **Shik Shin**, *The University of Tokyo, Japan*  
[Tutorial Lecture] “Ultrahigh Resolution Laser Photoelectron Spectroscopy”

14:00 Break

Chair: Takeshi Kondo (ISSP, Univ. Tokyo)

14:15 O-10 **Luong Thi Ta**, *Osaka University, Japan*  
“Adsorption of Toxic Gases on Borophene: Surface Deformation Links to Chemisorptions”

14:30 O-11 **Shunshuke Tanaka**, *ISSP, The University of Tokyo, Japan*  
“Multipole Plasmon Excitation at a Multilayer Structure of Cs/graphene/Cs on Ir(111)”

14:45 I-14 **Keshav Dani**, *Okinawa Institute of Science & Technology Graduate University, Japan*  
“Imaging Excitonic States with Time-resolved Photoemission in 2D Semiconductor Heterostructures”

15:15 O-12 **Iwao Matsuda**, *ISSP, The University of Tokyo, Japan*  
“Environmental Effects in Layer-dependent Dynamics of Dirac Fermions in Quasi-crystalline Bilayer Graphene”

15:30 Breakout Room Session

15:45 Break

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Chair: Kenichi Ozawa (TIT)

- 16:00 O-13 **Robert Wallauer**, *Philipps-Universität Marburg, Germany*  
“Tracing Orbital Images at Surfaces and Interfaces on Ultrafast Time Scales by Photoemission Tomography”
- 16:15 O-14 **Toyo Kazu Yamada**, *Chiba University, Japan*  
“On-surface Construction of Host-guest Molecular System: Absorption of Guest Atom / Molecule on Host Crown Ether Array”
- 16:30 I-15 **Jens Uhlig**, *Lund University, Sweden*  
“Resolving Dynamics in Real World Complexes with Time-resolved X-ray Spectroscopy”
- 17:00 O-15 **Joachim Schnadt**, *Lund University, Sweden*  
“Beyond the Ligand Exchange Model: Time-Resolved APXPS Studies of the Atomic Layer Deposition of HfO<sub>2</sub> on InAs”

17:15 Breakout Room Session

17:30 Break

Chair: Soohyung Park (KIST)

- 17:45 I-16 **Torsten Fritz**, *Friedrich-Schiller-Universität Jena, Germany*  
“Aromatic Molecules Decoupled from Metals via Modern 2D Materials beyond Graphene”

18:15 Breakout Room Session

Chair: Yasuo Nakayama (Tokyo Univ. Sci.)

18:30 Poster Short Presentation

P-13	<b>Noriyuki Tsukahara</b>	P-16	<b>Ryohei Tsuruta</b>
P-14	<b>Yoichi Yamada</b>	P-17	<b>Gota Endo</b>
P-15	<b>Hiroshi Okuyama</b>	P-18	<b>Taiyo Nakanishi</b>

19:00 Online Poster Session (~20:00)



## Thursday, 28/Oct./2021

Chair: Yoshihisa Harada (ISSP, Univ. Tokyo)

10:30 I-17 **Jinghua Guo**, *Advanced Light Source, Lawrence Berkeley National Laboratory, USA*  
“In-situ/Operando Soft X-ray Spectroscopy Study Charge Transfer and Structural Formation of Electrochemical Interfaces”

11:00 O-16 **Kenichi Ozawa**, *Tokyo Institute of Technology, Japan*  
“Time-resolved XPS Study of the Effect of Stacking Order on Exciton Dissociation in a Bilayer Photovoltaic System”

11:15 O-17 **Ralph Ugalino**, *ISSP, The University of Tokyo, Japan*  
“Electronic Signature of a “Breathing” Transition in a Metal-organic Framework by Resonant Inelastic X-ray Scattering (RIXS)”

11:30 Breakout Room Session

11:45 Lunch

Chair: Satoshi Kera (IMS)

13:00 T-3 **Jun Takeya**, *The University of Tokyo, Japan*  
[Tutorial Lecture] “Present Status and Future of Organic Device”

14:00 Break

Chair: Akihito Ishizaki (IMS)

14:15 O-18 **Hiroyuki Yoshida**, *Chiba University, Japan*  
“Energy Band Structure of the Lowest Unoccupied Molecular Orbital and Polaron Formation in High-Mobility Organic Semiconductors”

14:30 O-19 **Hiroyuki Ishii**, *University of Tsukuba, Japan*  
“Impact of Small Polaron with Low-Frequency Molecular Vibration on Electron Mobility of Organic Semiconductors”

14:45 I-18 **Takeshi Suzuki**, *ISSP, The University of Tokyo, Japan*  
“Time- and Angle-resolved Photoemission Study on Quantum Materials”

15:15 O-20 **Masafumi Horio**, *The University of Tokyo, Japan*  
“Surface-doping Induced Mott Breakdown in  $\text{Ca}_2\text{RuO}_4$ ”

15:30 Breakout Room Session

15:45 Break

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Chair: Takeshi Suzuki (ISSP, Univ. Tokyo)

- 16:00 O-21 **Arundhati Sahu**, *National Institute of Science and Technology, Berhampur, India*  
“Exploring Effective Surface Passivation of CdS QD’s with Gallic Acid: from Green Synthesis to Highly Fluorescent Molecular Probe”
- 16:15 O-22 **Asutosh Patra**, *Berhampur University, India*  
“Charge Transfer Interaction of Citric Acid Passivated CdS QD’s with Natural Dyes Under Visible Light Irradiation”
- 16:30 I-19 **Akihito Ishizaki**, *Institute for Molecular Science, NINS, Japan*  
“Investigating Excited-state Dynamics in Molecules with Quantum Light”
- 17:00 I-20 **Mariana Rossi**, *MPSD, Max-Planck-Gesellschaft, Germany*  
“Unraveling Structural and Dynamical Properties of (Quantum) Nuclei in Diverse Materials”
- 17:30 Breakout Room Session
- 17:45 Closing Remarks (Satoshi Kera, International Advisory Board)

## List of Poster Presentations

- P-1 **Yoshihisa Harada**, *ISSP, The University of Tokyo, Japan*  
“Electronic Structure of Ultrafine Water Cluster Deposited on a Hydrophobic Surface Explored by Soft X-ray Emission Spectroscopy”
- P-2 **Tsuyoshi Takaoka**, *Tohoku University, Japan*  
“Spectra of the Photocurrent of CuPc-adsorbed MoS<sub>2</sub>-FET”
- P-3 **Younghyun Choi**, *ISSP, The University of Tokyo, Japan*  
“AP-XPS Study of Methane and Carbon Dioxide for Methane Dry Reformation on a Pt(997) Surface”
- P-4 **Kaishu Kawaguchi**, *ISSP, The University of Tokyo, Japan*  
“Time-, Spin- and Angle-resolved Photoemission Spectroscopy of Spin-polarized Surface States with the 10.7-eV Extreme-ultraviolet at 1-MHz Repetition Rate”
- P-5 **Xiaoni Zhang**, *ISSP, The University of Tokyo, Japan*  
“Electronic Structure of Borophane, Studied by X-ray Spectroscopy”
- P-6 **Fumihiko Ozaki**, *ISSP, The University of Tokyo, Japan*  
“Interaction between the Functionalized MoS<sub>2</sub> Basal Surface and Hydrogen”
- P-7 **Takashi Yamada**, *Osaka University, Japan*  
“Correlation between Superstructure, Photoluminescence, and Excited-state Dynamics of Polyaromatic Hydrocarbon Thin Films on Graphite”
- P-8 **Yuri Hasegawa**, *Ritsumeikan University, Japan*  
“Impact of Weak Electronic Coupling on the Electronic Structure at the Molecule/Graphite Interface”
- P-9 **Haruki Sato**, *Chiba University, Japan*  
“Measurement of LUMO Band Structure of Organic Semiconductor”
- P-10 **Syed A. Ab Rahman**, *Chiba University, Japan*  
“Evidence of Polaron Formation in Organic Semiconductor from Temperature-dependent HOMO/LUMO Bandwidth”
- P-11 **Masato Iwasawa**, *University of Tsukuba, Japan*  
“Momentum Microscopy of Highly Oriented Organic Thin Films on Ag(110)”
- P-12 **Yuki Gunjo**, *Tokyo University of Science, Japan*  
“Interface Structures and Electronic States of Tetraaza-acenes on Single Crystal Pentacene”
- P-13 **Noriyuki Tsukahara**, *National Institute of Technology, Gunma College, Japan*  
“Competition between Adsorbate-adsorbate Coupling and Adsorbate-substrate Interaction in the Superstructure Formation of Molecular Layers”
- P-14 **Yoichi Yamada**, *University of Tsukuba, Japan*  
“Direct Visualization of Nearly-free-electron States Formed by Superatom Molecular Orbitals in Li@C<sub>60</sub> Monolayer”
- P-15 **Hiroshi Okuyama**, *Kyoto University, Japan*  
“Fano Interference in Electron Transport through Individual CuPc Molecules on Cu(100)”
- P-16 **Ryohei Tsuruta**, *University of Tsukuba, Japan*  
“Crystal Structure of C<sub>70</sub> Fullerene on Organic Single Crystals”
- P-17 **Gota Endo**, *Tokyo University of Science, Japan*  
“Crystal Structures of Pentacene Thin Films Grown on the Epitaxial C<sub>60</sub> on the Single Crystal Rubrene”
- P-18 **Taiyo Nakanishi**, *Tokyo University of Science, Japan*  
“H<sub>2</sub>O-induced Crystallization of Organic Luminescent Thin Films by Direct Film Storage in a High Vacuum”