

11 June (Tuesday)

8:50 AM Opening Yoshihiro Kubozono (Okayama University(Japan))

9:00 Jun Takeya (University of Tokyo (Japan))

Doping molecular semiconductors

9:30 Patrick Amsalem (Humboldt University of Berlin (Germany))

Fermi-level tuning in transition metal dichalcogenides

10:00 Tetsuya Nomoto (RIKEN (Japan))

Transport properties of an organic topological insulator candidate  $\alpha$ -(BETS)<sub>2</sub>I<sub>3</sub>

10:30-11:00 Coffee Break

11:00 Yoshihiro Iwasa (RIKEN (Japan))

Properties and functions of nanomaterials devices

11:45-13:30 Lunch

13:30 Antonio Di Bartolomeo (University of Salerno (Italy))

Ultrathin Films of MoS<sub>2</sub>, ReS<sub>2</sub>, and BP and Their Heterojunctions in Back-Gated Field-Effect Transistors

14:00 Koichi Hayashi (Nagoya Institute of Technology (Japan))

Recent applications of X-ray fluorescence holography

14:30 Luca Bignardi (University of Trieste (Italy))

Exploring the properties of 2D materials at surfaces through synchrotron radiation.

15:00 Ritsuko Eguchi (University of Hyogo (Japan))

Observation of the superstructure in van der Waals ferromagnet Fe<sub>5-x</sub>GeTe<sub>2</sub> by X-ray fluorescence holography

15:30-16:00 Coffee Break

16:00 Roberto Costantini (University of Trieste (Italy))

Tailoring the charge separation barrier at organic semiconductor interfaces

16:30 Tatsuo Hasegawa (University of Tokyo (Japan))

Extremely sharp switching operation of printed transistors using highly layered crystalline organic semiconductors

- 17:00 Daniele Varsano (CNR, Institute of Nanoscience CNR-NANO (Italy))  
Exploring the role of Indirect Excitons in Spectroscopic Properties of 2D materials: Insight from first principle Many-Body Perturbation Theory

12 June (Wednesday)

- 9:00 Andrea Candini (CNR ISOF (Italy))  
Charge transport in 2D materials thin films: role of surface chemistry, morphology and assembly
- 9:30 Vaidotas Mišeikis (Italian Institute of Technology (Italy))  
Scalable synthesis, integration and processing of graphene for high-performing electronic and photonic devices
- 10:00 Luca Ottaviano (University of L'Aquila (Italy))  
Emerging oxidized and defective phases in 2D ferromagnetic insulator CrCl<sub>3</sub>

10:30-11:00 Coffee Break

- 11:00 Riccardo Frisenda (Sapienza University of Rome (Italy))  
Local tuning of the electronic properties of ultrathin van der Waals materials

12:00-13:30 Lunch (Group photo (12:00))

- 13:30 Kenichiro Hashimoto (University of Tokyo (Japan))  
Unconventional superconductivity in topological kagome metals
- 14:00 Daniela Stornaiuolo (University of Naples Federico II (Italy))  
Origin and magnetotransport properties of the multifunctional 2DES at the LaAlO<sub>3</sub>/EuTiO<sub>3</sub>/SrTiO<sub>3</sub>(001) interface
- 14:30 Kosuke Nakayama (Tohoku University (Japan))  
Electronic structure in topological kagome metals
- 15:00 Toru Hirahara (Tokyo Institute of Technology (Japan))  
Quantum properties of atomic layer films studied by in situ ARPES and transport measurements

15:30-16:00 Coffee Break

- 16:00 Marco Salluzzo (CNR SPIN (Italy))  
Artificial Multiferroic oxide 2D-electron gas
- 16:30 Hiroshi Yamamoto (Institute for Molecular Science (Japan))  
Novel spintronics devices based on chiral materials
- 17:00 Simonpietro Agnello (Palermo University (Italy))  
2D MoS<sub>2</sub> doping and stability in high temperature controlled atmosphere
- 17:30 Shuichi Iwakiri (Weizmann Institute of Science (Israel))  
Tunable quantum interferometers in magic-angle twisted bilayer graphene

19:30–21:00 Banquet

13 June (Thursday)

- 9:00 Hidenori Goto (Okayama University (Japan))  
Variable carrier mobility of graphene gated with an ionic liquid
- 9:30 Federi Bisti (University of L'Aquila (Italy))  
Many-body band renormalization in highly doped graphene

10:00-10:30 Coffee Break

- 10:30 Miuko Tanaka (University of Tokyo (Japan))  
Kinetic inductance measurement of atomically thin van der waals  
superconductor
- 11:00 Shigeru Kasahara (Okayama University (Japan))  
Exotic superconducting state and high-field phase diagram of tetragonal FeSe<sub>1-x</sub>S<sub>x</sub>
- 11:30 Closing Antonio Cassinese (University of Naples II (Italy))