# Workshop Program: Oral Talks

## Feb. 19th

### 0. Ryo Shimano (Univ. Tokyo)

Opening [8:50 - 9:00]

### 1. Masahiro Sato (Chiba Univ.)

Floquet theory for open systems and its application to the inverse Faraday effect [9:00 - 9:45]

### 2. Naotaka Yoshikawa (Univ. Tokyo)

Anomalous Hall conductivity of a light-driven 3D Dirac semimetal [9:45 - 10:30]

### 3. Babak Seradjeh (Indiana Univ. Bloomington)

Floquet Topology from Twists in Irradiated Graphene [11:00 - 11:45]

### 4. Hiroshi Okamoto (Univ. Tokyo)

Ultrafast optical nonlinearity and electronic-state control by a strong mid-infrared pulse in Mott insulators [11:45 - 12:30]

### 5. Inti Sodemann (Univ. Leipzig)

Non-equilibrium quantum liquids of periodically driven fermions [14:00 - 14:45]

### 6. Hideki Hirori (Kyoto Univ.)

Spin control with THz magnetic fields [14:45 - 15:30]

### 7. Sota Kitamura (Univ. Tokyo)

Floquet topological superconductivity induced by chiral many-body interaction [16:00 - 16:20]

### 8. Hung-Hsuan Teh (ISSP, Univ. Tokyo)

Inverse Spin Hall Effect in Nonequilibrium Dirac Systems Induced by Anomalous Flow Imbalance [16:20 - 16:45]

### 9. Takashi Oka (ISSP, Univ. Tokyo)

New Directions in Floquet-Cavity Physics: Case Studies in Dirac Electrons [16:45 - 17:30]

## Feb. 20th

### 10. Yuan Wan (Institute of Physics, Chinese Academy of Sciences)

Time-domain interferometry of electron weak localization through terahertz nonlinear response [9:00 - 9:45]

### 11. So Yeun Kim (DGIST)

Charge-density-wave modes in (TaSe4)2I revealed by ultrafast spectroscopy [9:45 - 10:30]

### 12. Shuyun Zhou (Tsinghua Univ.)

Floquet engineering of black phosphorus [11:00 - 11:45]

### 13. Yuta Murotani (Univ. Tokyo)

Light-induced anomalous Hall effect: Competition of light- and field-induced Berry curvatures [11:45 - 12:30]

### 14. Masamitsu Hayashi (Univ. Tokyo)

Helicity dependent photocurrent in Dirac semimetals [14:00 - 14:30]

## Feb. 21st

### 15. Alexandra Landsman (Ohio State Univ.)

High Harmonic Generation in metal/magnetic insulator interfaces [9:00 - 9:45]

### 16. Sachiko Nakamura (Kyushu Univ.)

Terahertz Nonlinear Spectroscopy of Superconducting Vortex Dynamics [9:45 - 10:30]

### 17. Aris Alexandradinata (UC Santa Cruz)

Wave function geometry for bulk photovoltaics [11:00 - 11:45]

### 18. Satoshi Iwamoto (Univ. Tokyo)

Optical Waveguides Based on Valley Photonic Crystals and Their Heterostructures [11:45 - 12:30]

### 19. Takahiro Morimoto (Univ. Tokyo)

Shift current by quasiparticle excitations [14:00 - 14:45]

### 20. Yotaro Takahashi (Univ. Tokyo, RIKEN)

Terahertz photovoltaic effect of elementary excitations [14:45 - 15:30]

### 21. Masao Nakamura (RIKEN)

Exciton-enhanced nonlinear photocurrent response in halide heterostructures [16:00 - 16:45]

### 22. Toshiya Ideue (Univ. Tokyo)

Nonlinear optical responses in symmetry-controlled two-dimensional materials [16:45 - 17:30]