

Homepage: <https://lees2025.org/>

**June 22-27, 2025**

**Hanhwa Resort, Haeundae, Korea**

## Scope

LEES 2025 (“Low-Energy Electrodynamics in Solids”) is a forum for the interdisciplinary research on low-energy (microwave, terahertz, infrared) electrodynamics in solids and in exotic condensed phases.

Theoretical and experimental methods including broadband, time-resolved, near-field optical, Raman, and photoemission spectroscopies, inelastic neutron/X-ray scattering, scanning tunneling microscopy/spectroscopy will be discussed. There will be an emphasis on the electronic and magnetic properties of quantum materials and their applications for future technologies.

## Important Dates

- Oct 31, 2024: Announcement of invited speakers
- Dec 16, 2024: Opening of abstract submission
- Feb 14, 2025: Abstract Submission Deadline / Registration opening
- Mar 3, 2025: Author Notifications
- Mar 14, 2025: Early Bird Registration Deadline
- Apr 14, 2025: Regular Registration Deadline
- Jun 22-27, 2025: Conference

## Invited speakers

**Alexey Kuzmenko** (University of Geneva, Switzerland); **Andrei Pimenov** (TU Vienna, Austria); **Bumjoon Kim** (Pohang Science and Technology University, Korea); **Changyoung Kim** (Seoul National University, Korea); **David Hsieh** (Caltech, USA); **Edoardo Baldini** (The University of Texas at Austin, USA); **Fahad Mahmood** (University of Illinois Urbana-Champaign, USA); **Hiroshi Okamoto** (The University of Tokyo, Japan); **James Mciver** (Columbia University/ Max Planck Hamburg, USA/Germany); **Junichiro Kono** (Rice University, USA); **Kota Katsumi** (Ney York University, USA); **Kosuke Nakayama** (Tohoku University, Japan); **Larry Carr** (Brookhaven National Lab. USA); **Liang Wu** (University of Pennsylvania, USA); **Lingjie Du** (Nanjing University, China); **Liuyan Zhao** (University of Michigan, USA); **Martin Dressel** (Universitat Stuttgart, Germany); **Matteo Mitrano** (Harvard University, USA); **Michael Rubhausen** (University of Hamburg, Germany); **Nanlin Wang** (Peking University, China); **Nuh Gedik** (Massachusetts Institute of Technology, USA); **Peter Armitage** (The Johns Hopkins University, USA); **Qiong Ma** (Boston College, USA); **Rina Tazai** (Kyoto University, Japan); **Ryo Shimano** (The University of Tokyo, Japan); **Simone Fratini** (Institut NEEL – CNRS, France); **Sophie De Brion** (Néel Institute, France); **Soyeun Kim** (DGIST, Korea); **Sung-Sik Lee** (Perimeter Institute and McMaster University, Canada); **Stefan Kaiser** (Max Planck Institute for Solid State Research and TU Dresden, Germany); **Takeshi Kondo** (The University of Tokyo, Japan); **Xiaoxiang Xi** (Nanjing University, China); **Zhe Wang** (TU Dortmund University, Germany)

## Topic

- Low dimensional materials
- Superconductors
- Topological materials
- Strongly correlated systems
- Quantum spin systems
- Ultrafast and nonequilibrium phenomena
- Ultra strong light-matter interactions
- Optical Hall effects
- New experimental techniques

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