

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)

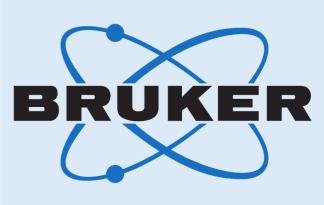
Topic

- 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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