



Schedule Winter Semester 2023/2024



Tuesdays
12:00



Zoom: www.qucolima.de/join-qucolima-talk

Erlangen
Lecture Hall HF
Physikum

Saarbrücken
tba

Mainz
tba

Date	Title	Location*	Speaker	Chairperson
17.10.2023	Simulating XY spins with coupled lasers	Zoom	Nir Davidson (Weizmann Institute of Science)	Joachim von Zanthier
24.10.2023	Strongly correlated electron materials: From model to experiment	Erlangen & Zoom	Philipp Hansmann (FAU Erlangen-Nürnberg)	Kai Phillip Schmidt
31.10.2023	Photophysics of Molecular Aggregates - Insights gained from single-object spectroscopy	Zoom	Jürgen Köhler (Universität Bayreuth)	Thomas Basché
07.11.2023	Optical Nanofibres and Cold Rubidium Atoms	Mainz & Zoom	Síle Nic Chormaic (OIST Graduate University, Okinawa, Japan)	Patrick Windpassinger
21.11.2023	Directional amplification and non-Hermitian topology	Erlangen & Zoom	Andreas Nunnenkamp (Universität Wien)	Jan Koziol
28.11.2023	Optical response of a quantum degenerate gas	Mainz & Zoom	Amita Deb (University of Birmingham)	Patrick Windpassinger
05.12.2023	Absorbing state phase transitions in open quantum systems and quantum cellular automata	Mainz & Zoom	Federico Carollo (Universität Tübingen)	Jamir Marino
19.12.2023	Nonlinear interrogation of quantum materials: why higher order response tells you more	Saarbrücken & Zoom	Peter Orth (Universität des Saarlandes)	Christoph Becher
16.01.2024	Quantum Simulation with Synthetic Dimensions	Zoom	Hannah Price (University of Birmingham)	Jamir Marino
23.01.2024	Quantum simulations with atoms and photons	Mainz & Zoom	Jean-Philippe Brantut (École polytechnique fédérale de Lausanne)	Jamir Marino
30.01.2024	Simulating quantum many-body dynamics in systems with collective couplings and dissipation	Erlangen & Zoom	Johannes Schachenmayer (CESQ, CNRS and Université de Strasbourg)	Claudiu Genes
06.02.2024 17:00 (!)	Imprinting quantum correlations for quantum-enhanced metrology in a trapped ion crystal	Zoom	Robert Lewis-Swan (The University of Oklahoma)	Jamir Marino

*** All talks hybrid:**

Mixture of on-site talks at the main sites of QuCoLiMa (Erlangen, Mainz, Saarbrücken) as well as online talks. Regardless of where the talks are given, they are livestreamed via Zoom and can be watched from home/office or *cooperatively* in the respective meeting rooms.

QuCoLiMa Talks are regular seminars of the collaborative research center TRR 306 QuCoLiMa (Quantum Cooperativity of Light and Matter), where (external) experts are invited to present their work.

Abstracts and more information at www.qucolima.de/talks

