

NANO & QUANTUM OPTICS Seminar

Summer term 2025

Institute of Applied Physics and Institute of Solid State Physics, Abbe Center of Photonics,
Friedrich Schiller University Jena

Version: 10.02.2026

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| 08.04.2025
Tuesday | Towards optical frequency combs based on micro-resonators in thin-film lithium niobate – Master's thesis defense
<i>Richard KINDLER</i>
17:00, online |
| 30.04.2025
Wednesday | Engineering of nonlinear susceptibility of thin-film lithium niobate for efficient and tailored frequency conversion – Research lab presentation
<i>Micaela MARTINEZ</i>
11:00, ACP seminar room 1 |
| 08.05.2025
Thursday | Towards SPDC in x-cut strip-loaded LNOI microring resonators by periodic poling – Master's thesis defense
<i>Henrick HÖLLERER</i>
16:30, ACP auditorium |
| 03.06.2025
Tuesday | Simulation of low-drive voltage electro-optic modulators in thin-film lithium niobate – Research lab presentation
<i>Efe KIRAZ</i>
14:00, ACP auditorium |
| 18.06.2025
Wednesday | Engineering quantum light using thin film lithium niobate waveguides
<i>Jasleen LUGANI – Indian Institute of Technology Delhi, India</i>
09:00, ACP auditorium |
| 16.07.2025
Wednesday | Ultra-low noise electro-optic comb generation for optical timing distribution – Master's thesis defense
<i>Muqing JIANG – Cycle GmbH, Hamburg</i>
16:00, online |
| 17.07.2025
Thursday | Metasurfaces supporting bound states in the continuum and applications in AR systems
<i>Amrit SHAW – IMEC, Leuven, Belgium</i>
13:20, ACP auditorium |
| 18.07.2025
Friday | Towards RGB narrowband meta-optics diffusers: design of ordered and disordered TiO ₂ Huygens' metasurfaces – Research lab presentation
<i>José RUVALCABA RASCÓN</i>
15:30, ACP auditorium |
| 28.07.2025
Monday | Optimization of automated gas-quenching for homogeneous perovskite thin film deposition – Master's thesis defense
<i>Maria Paula AYALA LEON</i>
15:00, online |
| 26.08.2025
Tuesday | Quantum meta-photonics and extreme space-time optics
<i>Vladimir M. SHALAEV - Purdue University, USA</i>
16:00, ACP auditorium |
| 08.09.2025
Monday | Design and development of grating couplers for thin-film lithium niobate – Master's thesis defense
<i>Rahul SANGHVI</i>
09:00, ACP auditorium |

- 08.09.2025**
Monday **Nanoprinted systems for topological and neuromorphic photonics**
Elena GOI
10:00, ACP auditorium
- 15.09.2025**
Monday **Nonlinear optical properties of SiN waveguides – Bachelor thesis defense**
Luca BÄHR
10:00, ACP auditorium
- 25.09.2025**
Thursday **Tunable frequency conversion in thin film lithium niobate – Research lab presentation**
Girish KARTHIK

Efficient frequency conversion using tailored domain engineering in nanophotonic waveguides – Master's thesis defense
Micaela MARTINEZ POMERANTZ
15:15, ACP auditorium
- 26.09.2025**
Friday **Generation of highly degenerate polarization entangled photon pairs – Bachelor thesis defense**
Leah HAASE
09:00, ACP auditorium
- 01.10.2025**
Wednesday **Efficient and high speed electro-optic modulators in thin film lithium niobate – Master's thesis defense**
Efe KIRAZ
12:00, ACP auditorium
- 28.10.2025**
Tuesday **Teleportation - science fiction or future reality?**
Hans BACHOR - Australian National University, Canberra
14:30, ACP auditorium
- 19.11.2025**
Wednesday **Charge carrier dynamics in a hybrid structure of monolayer transition metal dichalcogenides and gold nanoparticles – Internship presentation**
Irene SANTOS

Optical characterization of gradient filters – Internship presentation
Shrivarsha THAVASIKUMAR
14:15, ACP auditorium
- 21.11.2025**
Friday **Adjoint optimization of Huygens' metasurfaces – Master's thesis defense**
José RUVALCABA
10:30, ACP auditorium
- 27.11.2025**
Thursday **Waveguides for nonlinear frequency conversion – Internship presentation**
Mohammed AL-OBAIDI

Parameter estimation with correlated photon pairs – Internship presentation
Jan GÖSSWEIN
10:15, ACP seminar room 1
- 27.11.2025**
Thursday **Hybrid coupled mode theory solver for nonlinear waveguides – Internship presentation**
Alfonso Roldán OTERO
14:00, ACP auditorium

- 04.12.2025**
Thursday
Advanced nanostructure fabrication based on FIB and transfer
Xiaofei WU – Leibniz IPHT, Jena
14:00, ACP auditorium
- FDTD-based design of 3D-printed couplers for neuromorphic photonic applications – Master's thesis defense**
Geraldin MONTANEZ HUAMAN
15:00, ACP auditorium
- 08.12.2025**
Monday
Stress-release structures for erbium-doped thin-film lithium niobate – Research Lab presentation
Silvia MENA BARRIENTOS
12:00, ACP seminar room 1
- 09.03.2026**
Monday
Engineering and tuning of high-quality hexagonal boron nitride nanophotonic resonators
Otto CRANWELL SCHAEFER – University of Technology Sydney
14:00, ACP auditorium
- Topological light for optical information processing – Research Lab presentation**
Claire HERVIAUC
15:00, ACP auditorium

Even though, in person participation is strongly encouraged, for those who can't make it, all seminars can also be attended online by joining the Zoom meeting with the following access link: <https://uni-jena-de.zoom.us/j/96384983974>, Meeting ID: 963 8498 3974; Passcode: seminar
If you want to join the seminar online, we request you to enter the Zoom session with your full name (first name + last name).

The seminar rooms and auditorium of the Abbe Center of Photonics are located in the foyer area in the ground floor of the building, Campus Beutenberg, Albert-Einstein-Straße 6, 07745 Jena. The meeting rooms are located in the upper floors of the Abbe Center of Photonics according to the first digit of their number. External guests should take the public staircase from the foyer area and ring the bell at the individual doors to the meeting areas or call the secretary's office from the phones at the building's entrances (dial 47562).

The Carl Zeiss seminar room of the Fraunhofer Institute Jena is located at Campus Beutenberg, Albert-Einstein-Straße 7, 07745 Jena. The seminar room of the Institute of Applied Physics is located at in the yellow part of the institute building in the first floor, Campus Beutenberg, Albert-Einstein-Straße 15, 07745 Jena.

For further information, please contact the organizers of the seminar: Falk Eilenberger (falk.eilenberger@uni-jena.de, +49 3641 947990), Thomas Pertsch (thomas.pertsch@uni-jena.de, +49 3641 947560), Sina Saravi (sina.saravi@uni-jena.de), Frank Setzpfandt (f.setzpfandt@uni-jena.de, +49 3641 947569), or Isabelle Staude (isabelle.staude@uni-jena.de, +49 3641 947330).