

# NANO OPTICS Seminar SS2014

Institute of Applied Physics, Abbe Center of Photonics, Friedrich-Schiller-Universität Jena  
Version: 28.10.2014 – regular updates at [www.iap.uni-jena.de/NANOseminar](http://www.iap.uni-jena.de/NANOseminar)

- 02.04.2014**  
**Wednesday**      **Linear and nonlinear optical characterization of photonic crystal L3 cavities in z-cut lithium niobate membranes**  
*Nazila SAFARI – internship report*  
13:30, seminar room IAP
- 07.04.2014**  
**Monday**        **Exploiting MEEP for nonlinear simulations of plasmonic systems**  
*Illia THIELE*  
15:00, seminar room IAP
- 16.04.2014**  
**Wednesday**    **Imaging ultrashort pulse propagation with inverse Raman scattering**  
*Stefano MINARDI*  
11:00, seminar room IAP
- 23.04.2014**  
**Wednesday**    **Plasmonic enhancement of waveguide integrated absorption spectroscopy for biosensing applications**  
*Thomas KAISER and Xiaohan WANG*  
11:00, seminar room IAP
- 05.05.2014**  
**Monday**        **Harmonic generation in plasmonic nanostructures**  
*Jörg REINHOLD*  
13:30, seminar room IAP
- 26.05.2014**  
**Monday**        **Emission characteristics of SNOM tips depending on the tapering geometry**  
*Bayarjargal NARANTSATSRALT*  
15:00, seminar room IAP
- 28.05.2014**  
**Wednesday**    **Painful tales from a communicative lab: towards an Open Unified Device Framework**  
*Falk EILENBERGER*  
11:00, seminar room IAP
- 02.06.2014**  
**Monday**        **Relaxation of quantum system in the vicinity of nanoresonators: some concerns**  
*Arkadi CHIPOULINE*  
13:30, seminar room IAP
- 05.06.2014**  
**Thursday**      **Nonlocal plasmonic response in metallic nanostructures**  
*Asger MORTENSEN - Technical University of Denmark*  
13:00, seminar room IAP
- 06.06.2014**  
**Friday**        **BaTiO<sub>3</sub> SHG mapping**  
*Kevin FLOC'H*  
10:30, seminar room IAP
- 11.06.2014**  
**Wednesday**    **Handling stacked chiral media with the scattering matrix method**  
*Jan SPERRHAKE*  
11:00, seminar room IAP
- 18.06.2014**  
**Wednesday**    **Cascaded quantum walks**  
*Alexander SOLNTSEV – Australian National University, Canberra*  
11:00, seminar room IAP
- 23.06.2014**  
**Monday**        **Optical characterization of plasmonic structures by single- and dual-probe SNOM**  
*Angela KLEIN*  
13:30, seminar room IAP

- 25.06.2014**  
**Wednesday**  
**Narrowband resonances in coupled linear plasmonic structures and their applications**  
*Egor KHAIDAROV*  
11:00, seminar room IAP
- 07.07.2014**  
**Monday**  
**Metamaterial holograms with Silver patches**  
*Benny WALTHER*  
13:30, seminar room IAP
- Hawking radiation verified in analogue gravity experiment (Physikalische Kolloquium)**  
*Silke WEINFURTNER – University of Nottingham*  
17:15, Lecture Hall 1, Abbeanum
- 09.07.2014**  
**Wednesday**  
**Spektrale Verbreiterung und zeitliche Verkürzung ultra kurzer Pulse hoher Leistung (BSc defense)**  
*Stephan Schumann*  
10:00, seminar room IAP
- Experimental characterization techniques for plasmonic nanostructures – results from the PEEM**  
*Matthias FALKNER*  
11:00, seminar room IAP
- 18.07.2014**  
**Friday**  
**Coronagraph design and simulation for a 20 cm Earth-based telescope**  
*Asis SAAD*  
14:00, seminar room IAP
- 22.07.2014**  
**Tuesday**  
**Spatiotemporal nonlinear optics and the quest for the observation of discrete light bullets (defense of doctoral thesis)**  
*Falk EILENBERGER*  
17:15, lecture hall 2, physics building 2
- 23.07.2014**  
**Wednesday**  
**SNOM tip oscillation amplitude and direction: Focus scanning and interferometric measurements**  
*Norik JANUNTS*  
10:30, seminar room IAP
- 06.08.2014**  
**Wednesday**  
**Light distribution at the end facets of LiNbO<sub>3</sub> and AlGaAs nanowires by Fourier imaging (presentation of research labwork)**  
*Marc REIG ESCALÉ*  
10:30, seminar room IAP
- 07.08.2014**  
**Thursday**  
**Self-phase modulation in lithium niobate waveguides**  
*Roland SCHIEK*  
11:00, seminar room IAP
- 08.08.2014**  
**Friday**  
**Design of slow light LiNbO<sub>3</sub> photonic crystal waveguides for second harmonic generation and spontaneous parametric down conversion**  
*Sina SARAVI*  
11:00, seminar room IAP
- 20.08.2014**  
**Wednesday**  
**Integrated two-dimensional nonlinear photonics crystals for laser and wavelength conversion applications**  
*Prof. Yen-Hung CHEN - National Central University Taiwan*  
10:00, seminar room IAP
- Microspheres and nanospheres applied on patterned substrates**  
*Prof. Chia-Hua CHAN - National Central University Taiwan*  
11:00, seminar room IAP

- 01.09.2014**  
**Monday**      **DSP based mitigation of fiber non-linearity in fiber optic coherent communication systems (MSc Photonics defense)**  
*Ivan FERNANDEZ DE JAUREGUI RUIZ - Alcatel Bell-Labs, France*  
13:30, seminar room IAP
- 03.09.2014**  
**Wednesday**      **Linear and nonlinear properties of silicon metasurfaces**  
*Isabelle STAUDE – Australian National University, Canberra*  
15:00, seminar room IAP
- 08.09.2014**  
**Monday**      **Investigation of nonlinear effects in plasmonic nanostructures by finite difference time domain simulations (MSc defense)**  
*Illia THIELE*  
15:30, seminar room IAP

The seminar room of the Institute of Applied Physics is located at in the new part of the institute building in the first floor Campus Beutenberg, Albert-Einstein-Strasse 15, 07745 Jena. External guests: please ring at the secretary's office from the main entrance to the institute (phone 47800). The Carl Zeiss seminar room of the Fraunhofer Institute Jena is located at Campus Beutenberg, Albert-Einstein-Strasse 7, 07745 Jena. For further information please contact T. Pertsch (thomas.pertsch@uni-jena.de, +49 3641 947840).