



NanoLund Annual Meeting 2021

Light for Nano – Nano for Light

12 October 2021, Scandic Star Hotel, Glimmervägen 5, Lund

More information: www.nano.lu.se/annualmeeting2021

Program chairs: Ivan Scheblykin and Jesper Wallentin

08:30 – 08:55 Coffee and registration

Opening session

Chairs: Ivan Scheblykin, Jesper Wallentin

08:55 Welcome and opening by Heiner Linke, Deputy Dean, LTH and Chair of NanoLund Board
09:00 NanoLund update by Anders Mikkelsen, Director of NanoLund
09.40 Pitching of selected posters
10.10 Seedling project presentations

10:25 – 11:00 Coffee and posters

Structure and Energy Conversion

Chair: Reine Wallenberg

11:00 Keynote: Vanya Darakchieva (Solid State Physics, LU) *Interrogating quantum states with terahertz light and strong magnetic fields*
11.30 Jan Vogelsang (Atomic Physics, LU/University of Oldenburg, Germany) *Ultrafast Charge Carrier Dynamics at Nanoscale Interfaces*
11.45 Lukas Hrachowina (Solid State Physics, LU) *Towards nanowire tandem junction solar cells*
12.00 Klara Suchan (Chemical Physics, LU) *Light driving ions - phase segregation in halide perovskites*
12.15 Linnea Lindh (Chemical Physics, LU) *Iron-based solar cells. From fs to μ s timescale*

12:30 – 13:40 Lunch and posters

Emission and Dynamics

Chair: Tõnu Pullerits

- 13.40 Keynote: Tom Vosch (University of Copenhagen, Denmark) *DNA-stabilised silver nanoclusters; current understanding and applications of this versatile class of emitters*
- 14.10 Ivan Unksov (Solid State Physics, LU) *Light guiding nanowires for enhancement of fluorescence*
- 14.25 Irene Geijselaers (Solid State Physics, LU) *Optical studies of crystal phase heterostructures*
- 14.40 Fan Wu (Chemical Physics, LU) *Optical microcavity-mediated exciton dynamics in light-harvesting complexes II*
- 14.55 Alexander Kiligaridis (Chemical Physics, LU) *New way of photoluminescence quantum yield mapping for semiconductors*
- 15.10 – 15.40 Coffee and posters

Radiation: Fundamentals and Applications

Chair: Peter Samuelsson

- 15.40 Keynote: Robert Feidenhans'l (European XFEL, Germany) *Nano Science at European XFEL*
- 16.10 Giuseppe Abbondanza (Synchrotron Radiation Research, LU) *Exploring confined ordered nanostructures with synchrotron light*
- 16.25 Lucas Marcal (Synchrotron Radiation Research, LU) *Study of ferroelastic domains in CsPbBr₃ nanowires using nano X-ray diffraction*
- 16.40 Andreas Wacker (Mathematical Physics, LU) *Light between heat and work: The issue of detuning*
- 16.55 Ville Maisi (Solid State Physics, LU) *Microwave photodetection with double quantum dot photodiodes*
- 17.10 Closing remarks: Anders Mikkelsen, Director of NanoLund
- 17.30 – 19.00. Posters and pre-dinner drink
- 19:00 Dinner, prizes and awards

The presentations will also be available digitally at <https://youtu.be/SZw- GSiojo>

Posters are available digitally the day of the meeting at <https://www.nano.lu.se/posters-nanolund-annual-meeting-2021>