

SFB/TRR 142 - Kick Off-Workshop
"Tailored Non-linear Photonics"
9th/10th June 2022

Venue "Hotel Schnitterhof", Bad Sassendorf



Thursday, 9th June 2022

Time	Name	Topic	Chairperson
08:00-09:00		Accreditation	

09:00-09:15	Chistine Silberhorn		Welcome - Agenda of the day	
-------------	---------------------	--	-----------------------------	--

09:15-09:30	Wolf Gero Schmidt	B 07	Lithium Niobate Polarons: Atomic Structure, Optical Response, and Femtosecond Dynamics	Stefan Schumacher
09:30-09:45	René Gerommel	B 09	GaAs metasurfaces for enhanced SHG	
09:45-10:00	Stefan Grisard, Hendrik Rose	A 02	Nonlinear spectroscopy of InGaAs semiconductor quantum dots with classical and quantum light	

10:00-10:45			Coffee'n Chat	
-------------	--	--	---------------	--

10:45-11:00	Emmanuel Narvaez	A 09	Three-photon state generation with on-chip pump	Christoph Lange
11:00-11:15	Michal Kobecki	A 06	Giant photoelasticity of exciton-polaritons in a short-period GaAs/AlAs superlattice for detection of coherent phonons	
11:15-11:30	Christoph Lange	B 08	Subcycle nonlinearities of ultrastrong light-matter coupling	
11:30-11:45	Dmitri Yakovlev, Uwe Gerstmann	A 11	Control of excitonic optical harmonic generation by electric fields	

11:45-12:15			Group photograph	
-------------	--	--	------------------	--

12:15-13:30			Lunch (and individual photo sessions)	
-------------	--	--	---------------------------------------	--

13:30-13:45	Mirko Cinchetti	A 08	Time-resolved ARPES on 2D materials: first experiments at TU Dortmund	Thomas Zentgraf
13:45-14:00	Dustin Siebert	B 06	Tailoring optical resonators for ultrafast coherent opto-electronic control of a photonic quantum	
14:00-14:15	Christoph Lange, Matthias Reichelt	A 10	Nonlinear strong-field effects of quasi two-dimensional excitons	
14:15-14:30	Yannik Brune, Franziska Barkhausen	A 04	Quantifying Quantum Coherence in Polariton Condensates	

14:30-15:00			Coffee Break	
-------------	--	--	--------------	--

15:00-18:30	Schattenspringer		Social Event: Geo Caching	
-------------	------------------	--	---------------------------	--

18:30-19:30			Free time	
-------------	--	--	-----------	--

19:30			Joined Dinner	
-------	--	--	---------------	--

SFB/TRR 142 - Kick Off-Workshop
"Tailored Non-linear Photonics"
9th/10th June 2022

Venue "Hotel Schnitterhof", Bad Sassendorf



Friday, 10th June 2022

Time	Name	Topic	Chairperson
08:00-09:00		Breakfast	

09:00-09:15	Jan Sperling	C 10	Nonlinear quantum phenomena	Christine Silberhorn
09:15-09:30	Ioannis Caltzidis	C 08	Integration of III/V quantum dots on LNOI waveguides - a hybrid approach	
09:30-09:45	Tim Bartley	C 07	Tailoring cryogenic nonlinear optics and electronics for integrated quantum photonics	

9:45-10:00 Grab a coffee - CHECK OUT OF YOUR ROOMS -

10:00-12:00			Poster Session: 16 poster presentations	
11:00-12:00			Mitgliederversammlung TRR 142 - by invitation	

12:00-13:30 Lunch and individual photo sessions

13:30-13:45	Dennis Deutsch	C 09	On-demand ideal photon pair generation for entanglement swapping at telecom frequencies	Dirk Reuter
13:45-14:00	Christian Kress	C 11	Compact photon pair source using ultrafast hybrid modulators based on CMOS and LNOI	

14:00-14:30	Christine Silberhorn		Concluding remarks	
-------------	----------------------	--	--------------------	--

14:30 End of the workshop

Any questions, please contact:
 Dirk Waldhoff - 05251 60 2701