

**5<sup>th</sup> SFB/TRR 142 Workshop**  
**“Tailored Nonlinear Photonics”**  
**at the Hotel “Der Schnitterhof”, Bad Sassendorf**

<b>October, Thursday 4, 2018</b>	
<b>9:00</b>	<b>Welcome</b>
<b>Session 1: Chairperson: Manfred Bayer</b>	
9:10	A02: Jonas Vondran "Spatially Asymmetric Transients of Propagating Exciton-Polaritons in a CdZnTe/CdMgTe Guiding Structure."
9:30	A04: Xuekai Ma "Optical control of topological states in microcavity polariton condensates."
9:50	C04: Alex Widhalm "Coherent optoelectronics with quantum dots."
10:10	C06: Matvei Ryabinin "Simulating measurement-induced-nonlinearity in two-mode systems."
<b>10:30</b>	<b>Coffee break</b>
<b>Session 2: Chairperson Christine Silberhorn</b>	
10:50	Invited talk Prof. Dr. Szameit "Topological Photonics."
11:50	C01: Markus Allgaier "Upconversion detection in the time domain."
12:10	C02: Kai Hong-Luo "Nonlinear integrated quantum optics on a chip."
<b>12:30</b>	<b>Lunch break</b>
<b>13:30</b>	<b>Departure to Möhnesee</b>
<b>14:00</b>	<b>Walking-tour at the Möhnesee</b>
<b>15:30</b>	<b>Coffee Break at the Café Torhaus</b>
<b>16:30</b>	<b>Return to the Schnitterhof Hotel</b>
<b>Session 3: Chairperson Torsten Meier</b>	
17:00	Invited Talk Prof. Dr. Hohenester "Probing plasmon and phonon polaritons using electrons."
18:00	Poster Session 1
<b>19:00</b>	<b>Dinner at the Schnitterhof Hotel in Bad Sassendorf</b>
20:00	Poster Session 2

<b>October, Friday 5, 2018</b>	
<b>Session 4: Chairperson Dmitri Yakovlev</b>	
9:00	A06: Alexey Scherbakov "Ultrafast acoustics for modulating matter."
9:20	A07: Wolf-Rüdiger Hannes and Stephan Melzer "Aspects of two-photon interaction in bulk semiconductors."
9:40	B02: Michael Deppe "Germanium doping of MBE-grown cubic GaN an AlGaN epilayers."
10:00	B04: Sergej Neufeld "First-principles calculations for potassium titanyl phosphate."
<b>10:20</b>	<b>Coffee break</b>
<b>Session 5: Chairperson Tim Bartley</b>	
10:40	Invited Talk Prof. Dr. Hui Hu "Integrated optics on lithium niobate thin film: status and perspectives."
11:40	B05: Laura Padberg "Tailored KTP and LiNbO <sub>3</sub> waveguide structures for counter propagating PDC sources."
<b>12:00</b>	<b>Lunch break</b>
<b>12:40</b>	<b>Internal principal investigator meeting</b>
<b>Session 6: Chairperson Thomas Zentgraf</b>	
13:30	Invited Talk Prof. Costantino De Angelis "Harmonic generation and photon management at the nanoscale in all-semiconductor nanoantennas."
14:30	C05: David Hähnel "Simulation of coupling effects and nonlinearity in Huygens metasurfaces."
14:50	B01: Johannes Mund "High-resolution second harmonic generation spectroscopy with femtosecond laser pulses on excitons in Cu <sub>2</sub> O."
<b>15:10</b>	<b>Coffee break</b>
<b>Session 7: Chairperson Mirko Cinchetti</b>	
15:30	A08: Mahdi Hajlaoui "Photoelectron and optical spectroscopy to study SHG of plasmonic excitations coupled to QW-intersubband transitions."
15:50	A03: Artur Zrenner "Resonant excitation of one- and two-photon transitions in quantum dots."
<b>16:10</b>	<b>Concluding remarks</b>