

**3rd internal workshop for
Masterstudents, PhDs and Postdocs
November 26th and 27th 2015
in Dortmund**



Location: Hotel Esplanade, Burgwall 3, 44135 Dortmund

Thursday, 26th November	
9:30	Arrival
10:00	Welcome
10:15	Tobias Wecker (B02): "Molecular Beam Epitaxial growth of group III nitrides in the cubic phase"
10:45	Thorben Jostmeier (B02): "Ultrafast carrier dynamics and resonant inter-miniband nonlinearity of a cubic GaN/AlN superlattice"
11:15	Coffee break
11:45	Przemyslaw Lewandowski (A04): "Exciton-Polaritons in Microcavities"
13:00	Lunch break
13:45	Stephan Melzer (A01): "Two-Photon Emission in CuO ₂ and GaAs?"
14:15	Dr. Amlan Mukherjee (C04): "Ultrafast electronic circuits for coherent optoelectronics"
14:45	Coffee break
15:00	Sebastian Unsleber, University of Würzburg: "Quantum dots in microcavities: solid state platform for bright, indistinguishable photons"
16:00	Visit of the DFB Museum or the Dortmund Christmas market
18:00	Dinner at the Hövels Hausbrauerei

Friday, 27th November	
9:30	Felix Spitzer (A02): “Exciton polaritons in CdMgTe / CdZnTe waveguides”
10:00	Johannes Mund (B01): “Magnetic field induced second harmonic generation in ZnSe”
10:30	Coffee break and check-out
11:00	Jun.-Prof. Dr. Tim Bartley: “Mesoscopic Quantum Optics”
11:45	Poster Session Group meetings Check-out
12:45	
13:30	Dr. Andreas Reiserer, TU Delft: “Exploring Remote Entanglement”
14:30	Group photo and coffee break
15:00	Kai Spychala (B03): “Second-Harmonic Microscopy in ion-implanted waveguides in lithium niobate”
15:30	Sara Arceiz Casas (B03): “Experimental and theoretical investigation of iron polarons in lithium niobate”
16:00	Concluding remarks

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Presenting author	Title of the poster
Nils Weber	Plasmonic nano-antenna enhanced nonlinear lightemission and frequency conversion in dielectric and semiconductor micro-structures
Alex Widhalm	Ultrafast optoelectronic control of transitions in Quantum Dots
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Dirk Heinze	Single-photon emission from quantum dot biexcitons
Michael Friedrich	Zero-point renormalization and temperature dependence of the LiNbO ₃ band gap from first principles
Nand Lal Sharma	Molecular beam epitaxy of tailored InAs quantum dot heterostructures
Arthur Riefer	Electronic structure of LiNbO ₃ : Many-body interactions, spin-orbit coupling, and thermal effects
Dr. Hamed Saberi	Quantum optical characterization of an integrated parametric down-conversion source: numerical analysis of the role of imperfections
Sara Arceiz Casas	Small Fe ²⁺ / ³⁺ polarons in Fe:LiNbO ₃ crystals
Sergej Neufeld	Raman scattering efficiency in LiNbO ₃ and LiTaO ₃ crystals
Peter Mackwitz	Raman spectroscopy for the characterization of ferroelectric materials: An overview