

International Symposium "Semiconductor Nanophotonics"

Collaborative Research Centre 787

Technische Universität Berlin, November 4th - 5th, 2019

<i>time</i>	<i>Monday , November 4'th</i>	<i>Tuesday, November 5'th</i>	<i>Room</i>
08:30 - 09:00	WELCOME Christine Ahrendt (1. VP, TUB) Michael Kneissl (Speaker, CRC787)		EW 201
<i>chair:</i>	<i>Michael Kneissl</i>	<i>Kathy Lüdge</i>	
09:00 - 09:30	Materials and devices research for computing Heike Riel (IBM)	Hybrid quantum technology based on quantum emitters in condensed phase Oliver Benson (HUB)	
09:30 - 10:00	Towards brain-inspired photonic computing Wolfram Pernice (U. Münster)	Secure communication by using quantum key distribution Ronald Freund (HHI)	
10:00 - 10:30	Background-free single and highly entangled photons from GaAs quantum dots Armando Rastelli (JKU Linz)	Quantum communication using engineered solid-state quantum-light sources Tobias Heindel (TUB)	EW 201
10:30	Coffee break	Coffee break	
<i>chair:</i>	<i>Andreas Knorr</i>	<i>Oliver Benson</i>	
11:00 - 11:30	Optical control of quantum dot nuclei: from nuisance to resource Mete Atatüre (Cambridge U.)	Linewidth enhancement in quantum dot lasers Weng Chow (Sandia)	
11:30 - 12:00	Phonons and excitons in semiconductor nanostructures Markus R. Wagner (TUB)	Timing jitter in mode-locked lasers - the role of external cavities Kathy Lüdge (TUB)	EW 201
12:00 - 12:30	Theory and spectroscopy of nanostructures for (quantum) optical applications Marten Richter (TUB)	Third order dispersion in time delayed systems Julien Javaloyes (UIB)	
12:30	Lunch (buffet)	Lunch (buffet)	
<i>chair:</i>	<i>Tim Wernicke</i>	<i>Axel Hoffmann</i>	
14:00 - 14:30	Pushing performance in blue and UV VCSELs by nanometer structuring Åsa Haglund (Chalmers)	0D/2D confinement in submonolayer quantum dots and its influence on laser dynamics Nina Owschimikow (TUB)	EW 201
14:30 - 15:00	Growth of GaN-based quantum dot structures Christoph Berger (OvGU)	Spatiotemporal exciton dynamics in atomically thin 2D materials Ermin Malic (Chalmers)	
15:00 - 15:30	The past, present, and future of GaN quantum dots Gordon Callsen (EPFL)	Strain imaging in semiconducting nanostructures Tore Niermann (TUB)	
15:30 - 16:00	AlGaIn-based UV emitters Norman Susilo (TUB)	Multivalley-physics in 2D materials Ursula Wurstbauer (U. Münster)	
16:00	Coffee break	CLOSING	
<i>chair:</i>	<i>Stephan Reitzenstein</i>		
16:30 - 17:00	VCSELs for communication and sensing Jim Lott (TUB)		EW 201
17:00 - 17:30	Light and matter correlations in nanoscale lasers Christopher Gies (U. Bremen)		
17:30 - 18:00	Device-scale simulation of quantum light emitting diodes Markus Kantner (WIAS)		