Program

Sunday, 10 January 2016

17:00 – 21:00	Registration	
18:30	*DINNER / Informal get together*	

Monday, 11 January 2016

08:00	BREAKFAST	
09:00	Scientific organizers	**Welcome**
09:00 – 09.45	Christoph Becher	**Quantum frequency conversion of single photons: A toolbox for coupling hybrid quantum systems**
09:45 – 10:30	Arno Rauschenbeutel	**Chiral nanophotonics and quantum optics**
10:30 – 11:00	*COFFEE BREAK*	
11:00 – 11:45	Ilja Gerhardt	**Single molecules interlinked with atomic vapors**
11:45 – 12:30	Fedor Jelezko	**Diamond spin-photon interface**
12:30	**Conference Photo** (in the foyer of the lecture hall)	
12:35	*LUNCH*	
14:00 – 14:45	Markus Aspelmeyer	**Towards a photon-phonon quantum interface**
14:45 – 15:30	Eugene Polzik	**Back action free measurement on a spin and a mechanical oscillator**
15:30 – 16:00	*COFFEE BREAK*	

Program

Monday, 11 January 2016

16:00 – 16:45	Stephan Reitzenstein	**Deterministic semiconductor based single photon sources for hybrid quantum networks**
16:45 – 17:30	Mete Atatüre	**Creating photonic interfaces for hybrid networks**
17:30 – 18:00	Frederik Dieleman	**Quantum tomography and interference with surface plasmon polaritons**
18:00 – 18:15	Stefan Jorda	**About the Wilhelm and Else Heraeus Foundation**
18:30	*HERAEUS DINNER* *(cold & warm buffet, free beverages)*	
19:30 – 22:00	**Poster session I**	

Program

Tuesday, 12 January 2016

08:00	*BREAKFAST*	
09:00 – 09.45	Peter van Loock	**Optical hybrid quantum information processing**
09:45 – 10:30	Christine Silberhorn	**A monolithic parametric downconversion source of narrowband photon pairs**
10:30 – 11:00	*COFFEE BREAK*	
11:00 – 11:45	Chen-Lung Hung	**Hybrid atom-nanophotonic lattices for quantum optics and many-body physics**
11:45 – 12:30	Stephan Götzinger	**Controlling the interaction of light and matter at the level of single quanta**
12:30	*LUNCH*	
14:00 – 14:45	Martin Plenio	**Diamond hybrid devices**
14:45 – 15:30	Jörg Wrachtrup	**Hybrid spin nodes for single photon processing**
15:30 – 16:00	*COFFEE BREAK*	
16:00 – 16:45	Richard Warburton	**An artificial Rb atom in a semiconductor with lifetime-limited linewidth**
16:45 – 17:15	Immo Söllner	**Demonstration of chiral light-matter interaction: Towards a deterministic on-chip spin-photon interface**
17:15 – 17:45	Jean-Philippe Poizat	**Ultra-low power all-optical switch using a single quantum dot embedded in a photonic wire**
17:45 – 18:15	Jürgen Eschner	**Programmable atom-photon quantum interface**
18:30	*DINNER / Industry Evening (free beverages)*	
19:30 – 22:00	**Poster session II**	

Program

Wednesday, 13 January 2016

08:00	*BREAKFAST*	
09:00 – 09.45	Philipp Treutlein	**Hybrid atom-membrane optomechanics**
09:45 – 10:30	Wenjamin Rosenfeld	**Atom-photon entanglement and applications**
10:30 – 11:00	*COFFEE BREAK*	
11:00 – 11:45	Costanza Toninelli	**Single-molecule hybrid photonics: Sensing and communication**
11:45 – 12:30	Darrick Chang	**Designer quantum systems using cold atoms coupled to photonic crystals**
12:30 – 12:45	Scientific organizers	**Best poster awards and résumé**
12:45	*LUNCH*	

End of the seminar *and FAREWELL COFFEE* ***/ Departure***