DPG Physics School 2010 "Nanophotonics meets Quantum Optics"

Time	*Sunday*	*Monday* *20 Sept*	*Tuesday* *21 Sept*	*Wednesday* *22 Sept*	*Thursday* *23 Sept*	*Friday* *24 Sept*
08:00		Breakfast				
09:00 – 10:30		**Jeff Kimble** Quantum Networks with Single Atoms, Photons, and Phonons	**Atac Imamoglu** Resonant optical manipulation of quantum dot nuclear spins	**Markus Aspelmeyer** Quantum Opto-Mechanics: extending quantum experiments to massive mechanical systems	**Mikhail Lukin** Nanophotonic quantum interfaces for solid-state qubits	**Michel Orrit** Optical detection and spectroscopy of individual nano-objects
10:30		Break				
11:00 – 12:30		**Oskar Painter** Optomechanical Crystals and their Quantum Optical Applications	**Oliver Benson** Model Systems for Quantum Optical Technology Based on Single Solid-State Single Photon Emitters	**Tobias Kippenberg** Quantum measurements and backaction cooling of micromechanical oscillators	**Marko Lončar** Nanophotonic devices for optical and quantum optical networks	**Gerd Leuchs** Strong atom photon coupling without a cavity
12:30		Lunch				
14:30 – 16:00	Arrival	**Mario Agio** Quantum optics with optical antennas and focused light	**Ed Hinds** Detecting small numbers of atoms with small optics	Excursion	**Jakob Reichel** Miniaturizing cavity QED with fiber Fabry-Perot cavities	End of the School
16:00		Break			Break	
16:30 – 18:00		**Carsten Henkel** The quantum vacuum below the diffraction limit	**Helmut Ritsch** Laser cooling and optomechanics		**Stefan Kuhr** Imaging single atoms in a strongly correlated quantum system **József Fortágh** Ultracold atoms near carbon nanotubes	
18:30		Dinner				
		Posters	Discussions	Posters	Discussions	