

09:00 – 09:10	<i>Welcome address and motivation for workshop</i> O. Zilberberg and A. Eichler
09:10 – 09:50	<b>Phase symmetry breaking in nonlinear parametric resonators</b> R. Chitra ( <a href="#">Parametric nonlinear guitar</a> , ETH)
09:50 – 10:30	<b>Coherent control of a levitated nanoparticle by parametric mode coupling</b> M. Frimmer ( <a href="#">Nano-particle trapping and cooling</a> , ETH)
10:30 – 10:50	<i>Coffee break</i>
10:50 – 11:30	<b>Quantum Limited Amplification, Vacuum Squeezing, and Frequency Conversion in Parametrically Driven Superconducting Circuits</b> C. Eichler ( <a href="#">Superconducting qubits</a> , ETH)
11:30 – 12:10	<b>Optical parametric amplification in structured quasi-phase-matching devices</b> C. Phillips ( <a href="#">Ultrafast lasers</a> , ETH)
12:10 – 13:30	<i>Lunch break</i>
13:30 – 14:10	<b>Quantum phases of a driven-dissipative many-body system</b> T. Donner ( <a href="#">Cold atoms in a cavity</a> , ETH)
14:10 – 14:50	<b>Mechanical reservoir for microwave light</b> A. Feofanov ( <a href="#">Optomechanics</a> , EPFL)
14:50 – 15:00	<i>Coffee break</i>
15:00 – 15:40	<b>Coherence protection by parametric driving - a photon-phonon doubly dressed spin</b> P. Maletinsky ( <a href="#">NV-centers</a> , Basel)
15:40 – 16:20	<b>Squeezing-mediated non-Poissonian photon statistics</b> T. Fink ( <a href="#">Exciton-polariton</a> , ETH)
16:20 – 16:30	<i>Coffee break</i>
16:30 – 17:10	<b>Non-linearities and frequency comb formation in quantum cascade lasers</b> G. Scalari ( <a href="#">Non-linear lasing</a> , ETH)
17:10 – 17:50	<b>Squeezed Fock states and dissipation</b> J. Home ( <a href="#">Trapped ions</a> , ETH)
17:50 – open	<i>Discussion and beer</i>