



Universität
Basel

Research Project

Cavity Optomechanics - Quantum Measurements and Backaction TP1

Third-party funded project

Project title Cavity Optomechanics - Quantum Measurements and Backaction TP1

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Organisation / Research unit

Departement Physik / Theoretische Physik (Bruder)

Department

Project start 01.01.2011

Probable end 31.12.2014

Status Completed

The goal of this theoretical subproject is to analyze existing and new setups of nanomechanical and optomechanical systems and to propose and investigate ways to generate and measure new quantum states. The mechanical systems considered include cantilevers, membranes, and also non-traditional types of oscillators like collective density excitations of a Bose-Einstein condensate coupled to a cavity field.

Financed by

Swiss National Science Foundation (SNSF)

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