



Universität  
Basel

## Research Project

### Electro-optics of semiconductor nano structures

#### Third-party funded project

**Project title** Electro-optics of semiconductor nano structures

**Principal Investigator(s)** [Warburton, Richard](#) ;

**Organisation / Research unit**

Departement Physik / Experimental Physics (Warburton)

**Department**

**Project start** 01.10.2014

**Probable end** 30.09.2017

**Status** Completed

The project aims (i) to investigate the nuclear spins in a single quantum dot with nuclear magnetic resonance techniques and to determine the hole-nuclear spin coupling; (ii) to develop a single photon source at the wavelength of the Rb atom; (iii) to improve the photon collection efficiency by engineering the photonic modes

**Financed by**

Swiss National Science Foundation (SNSF)

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