

Solid-State Quantum Technologies

Tue, 2016-10-25 14:17 - [Vincent Jacques](#) [1] **Website:**
<http://www.solidstatequantumtech-l2c.fr/> [2]

Research Type: Experiment

Our research group explores and builds on quantum effects at the nanoscale occurring in individual well-controlled solid-state impurities. Our activity is developed along two lines.

1. We investigate the physics of individual spins associated with [point-like defects in wide-bandgap materials](#) [3], combining the best attributes of atomic and of condensed matter systems for quantum technologies.
2. We explore the use of spins in the development of [quantum sensors](#) [4] that offer an unprecedented combination of high sensitivity and high spatial resolution.

Leader: Vincent JACQUES

Location

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- [Quantum Engineering](#) [5]
- [Quantum Metrology, Sensing and Imaging](#) [6]
- [Other](#) [7]

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Links:

[1] <http://qurope.eu/users/vjacques>

[2] <http://www.solidstatequantumtech-l2c.fr/>

[3] <http://www.solidstatequantumtech-l2c.fr/research/defects>

[4] <http://www.solidstatequantumtech-l2c.fr/research/quantumsensing>

[5] <http://qurope.eu/category/virtual-facility/quantum-engineering>

[6] <http://qurope.eu/category/virtual-institute/quantum-metrology-sensing-and-imaging>

[7] <http://qurope.eu/category/projects/other>