

A Room Temperature Quantum Sensor

Internal Reference: STE-9975-23

Summary

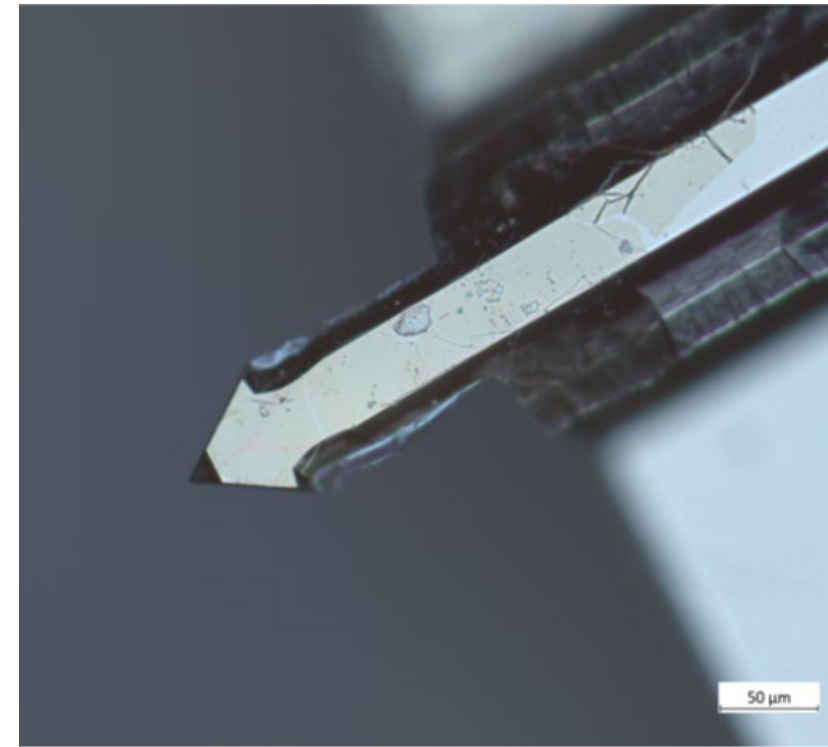
A new method and system for performing nanoscale spin-based magnetometry

Benefits

- Improved spatial resolution
- Larger dynamic range and vectorial sensitivity
- Cheaper and simpler fabrication

Commercial applications

- Optical Micromanipulation Technology
- Nanoscale magnetometry
- Quantum information processing
- Super-resolution microscopic imaging
- Optical trapping and manipulation
- Optical communication



hBN coated tip

Links to further reading:

[A quantum coherent spin in hexagonal boron nitride at ambient conditions](#) | [Nature Materials](#)

Collaboration Opportunity

- We are seeking partners to help commercialise this technology
- To learn more, contact: mei.hong@enterprise.cam.ac.uk