

Vincent Jacques



Presentation title

Exploring condensed matter physics with a single spin microscope

Vincent Jacques (38 years old) is a CNRS research associate working at Laboratoire Charles Coulomb (Montpellier, France).

His research is mainly focused on the study of deep, optically-active, defects in wide bandgap materials and their applications in various fields of research ranging from quantum optics and quantum information science, to nanoscale sensing and hybrid quantum systems.

In the recent years, his research group has demonstrated how nanoscale magnetic sensing with a single nitrogen-vacancy defect in diamond can be used as a powerful tool to explore exotic spin textures in thin magnetic materials.

He has published more than 70 articles. He was recipient of the Edouard Branly prize from the “Fédération française des sociétés scientifiques” (2013) and of an ERC starting grant (2014).