



Postdoctoral position in Theoretical Condensed Matter Physics:

Design of Topological Superconductors

Closing date: 31 January 2021

Do you have a background in many-body physics, topological insulators and superconductors, synthetic gauge fields or gravitational condensed matter equivalents?

We offer an opportunity for a motivated researcher to join a newly launched project on New Platforms for Topological Superconductors under an EPSRC New Horizon grant. You will work within the Physics of Quantum Materials Group in the School of Physical Sciences at the University of Kent, within the team of Dr Gunnar Möller. This position is available for 22 months in the first instance.

The project will involve theoretical and numerical modelling of synthetic quantum systems designed to manipulate superconducting order parameters in a targeted fashion, building on techniques developed for the generation of artificial gauge fields and gravitational condensed matter equivalents.

You will have a PhD (or you will have submitted your thesis prior to taking up the appointment) in a relevant area of quantum condensed matter or gravitational physics. You will also have experience in modelling, analysis and computational skills and evidence of contributing to papers in internationally recognised, peer-reviewed journals or evidence of publishable research in progress.

For further information and instructions how to apply, please see:

<https://jobs.kent.ac.uk/vacancy.aspx?ref=NATS-006-20>

For any queries you may have, please contact:

Dr Gunnar Möller, Royal Society University Research Fellow
by email at G.Moller@kent.ac.uk

Related pages:

- Profile page for Dr G Möller:
<https://www.kent.ac.uk/physical-sciences/people/466/m-ller-gunnar>
- Physics of Quantum Matter Group Webpage:
<https://research.kent.ac.uk/pgm/>