



Research tags:

Quantum physics, Quantum technology, Quantum information, Low-temperature transport, Nanothermodynamics

Method Tags:

Modelling/Simulation, Theory

Supervisor: Martin Leijnse, [martin.leijnse@ftf.lth.se](mailto:martin.leijnse@ftf.lth.se)

Website:

<https://portal.research.lu.se/en/persons/martin-leijnse>

I am a theoretical condensed matter physicist primarily interested in nanoscale systems. On such small length scales, the physics is drastically different from what we know in our all-day life and is dominated by the laws of quantum mechanics. I investigate different ways of taking advantage of quantum mechanics to design for example electronic components with desirable properties.