



Method tags:

Characterization/Experiment, Processing/Nanofabrication

Scientific tags:

Quantum physics, Quantum technology, Low-temperature transport, Electronics, Devices, Exploratory nanofabrication, Materials science

Supervisor: Claes Thelander, claes.thelander@ftf.lth.se

Website:

<https://portal.research.lu.se/en/persons/claes-thelander>

We study electron transport at low temperature in carefully designed nanowire crystals. We are particularly interested in the physics of artificial atoms and molecules based on quantum dots, which we realize within nanowires grown from exotic materials. Our current focus is studies of how such quantum structures interact with superconductors and can mediate supercurrents.