Contribution ID: **26** Type: **not specified**

Quantum sensing at VTT

Monday 17 February 2025 14:20 (30 minutes)

VTT Technical Research Centre of Finland is the largest Research and Technology Organization (RTO) in Finland. VTT runs Micronova, Finland's national research infrastructure for micro- and nanotechnology. Soon, an exquisite cleanroom environment Kvanttinova for microelectronics and quantum technology will be connected to Micronova. VTT's activities on precision sensing beyond current limits include development of Superconducting Quantum Interference Devices (SQUIDs), Superconducting Nanowire Single Photon Detectors (SNSPDs), and thermal detectors based on graphene Josephson Field Effect Transistors (JoFETs) as well as atomic clocks. Currently, VTT's quantum sensors are being developed e.g., in collaboration with various research groups dedicated to space research and dark matter searches.

Presenter: TUOMINEN, Eija (Helsinki Institute of Physics (FI))

Session Classification: Lab and national presentations