

Quantum in EE Seminar Series



Link <https://www.youtube.com/channel/UCV7lxobQp4VZjm5BYtU3z-A>



November 9th (Day 1)



9AM - 10AM

Prof. Teiko Heinosaari (University of Turku)

Anticipative measurements in hybrid quantum-classical computation

10AM - 11AM

Prof. Antonio Acin (ICFO)

The device-independent scenario: a quantum information theory with black boxes

11AM - 12PM

Prof. Miguel Navascues (IQOQI)

Quantum supremacy in mechanical tasks: projectiles, rockets and quantum backflow

12PM - 2PM | **Lunch Break**

2PM - 3PM

Prof. Francesco Buscemi (Nagoya University)

About the incompatibility of quantum measurement processes

3PM - 4PM

Prof. Giulio Chiribella (HKU)

Quantum information processing with indefinite causal structure: from foundations to applications in quantum communication and metrology

4PM - 5PM

Prof. Vedran Dunjko (Leiden University)

On proving learning separations between classical and quantum learners



November 10th (Day 2)



9AM - 10AM

Prof. Rob Spekkens (Perimeter Institute)

Why interference phenomena do not capture the essence of quantum theory

10AM - 11AM

Prof. Paola Capellaro (MIT)

Quantum sensing of noisy quantum system at the nanoscale

11AM - 12PM

Prof. Fernando Brandao (Caltech, AWS)

Fault tolerant quantum computing with bosonic qubits

12PM - 2PM | **Lunch Break**

2PM - 3PM

Prof. Tian Zhong (UChicago)

Scalable quantum interconnect with rare-earth qubits and memories

3PM - 4PM

Prof. Tim Taminiau (QuTech)

Quantum networks, computations and simulations with spin qubits in diamond

4PM - 5PM

Prof. Robert Niffenegger (Umass Amherst)

Integrated photonic control of a trapped ion qubit

5PM - 6PM

Dr. Mihai Vidrighin (PsiQuantum)

Photonic quantum computing