

Poster list WACQT May meeting 2025

Board no	Name PhD student	Pillar	University	Title of poster/project
1	Abhilash Kulkarni	Quantum Sensing, metrology & control	KTH	Investigation of the biodistribution of NIR-luminescent nanoparticles as potential drug carriers using SNSPDs
2	Achintya Paradkar	Quantum Sensing, metrology & control	Chalmers	Coupling of a magnetically levitated particle to a flux-tunable resonator
3	Alexander Jung	Quantum Sensing, metrology & control	Chalmers	Lightweight Photonic Crystal Mirrors for Cavity Optomechanics.
4	Daniel Holst	Quantum Sensing, metrology & control	LU	Information to energy conversion using a single quantum dot
5	Ferdinand Omlor	Quantum Sensing, metrology & control	LU	Coupling electron spins in quantum rings to microwave photons
6	Gustav Arvidsson	Quantum Sensing, metrology & control	LU	Testing quantum mechanics with photoelectron interferometry
7	Oscar Arandes	Quantum Sensing, metrology & control	SU	Topological non-Hermitian sensors
8	Seyed Alireza Hashemi	Quantum Sensing, metrology & control	Chalmers	Coupling two superconducting microparticles on a chip
9	Stéphane Cohen	Quantum Sensing, metrology & control	KTH	Quantum dot spectroscopy using SNSPDs
10	William Stenlund	Quantum Sensing, metrology & control	LiU	How To Automatically Find The Symmetry Of Defect Orbitals
11	Emil Hogedal	Quantum computing experiment	Chalmers	Fast parametric two-qubit gates
12	Filip Nilsson	Quantum computing experiment	Chalmers	Characterization of Dielectric Loss Properties in Superconducting Circuits
13	Halldór Jakobsson	Quantum computing experiment	Chalmers	Characterization of flux tunable coupler bias lines without coupler readout resonators
14	Jiaying "Claire" Yang	Quantum computing experiment	Chalmers	Distributed quantum computing with microwave photons
15	Kunal Helambe	Quantum computing experiment	Chalmers	Experimental implementation of digital Homodyne detection of bosonic states
16	Natalia Kuk	Quantum computing experiment	SU	Rydberg excitation-induced linear-to-zigzag phase transition in a three ion crystal
17	Simon Sundelin	Quantum computing experiment	Chalmers	Toward quantum thermodynamic precision advantage in a superconducting circuit
18	Trond Haug	Quantum computing experiment	Chalmers	Protecting superconducting qubits from light-induced quasiparticle poisoning
19	Vyom Kulkarni	Quantum computing experiment	Chalmers	Microwave Single-Photon Detector based on a Superconducting Lambda system with Engineered Couplings

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20	Alex Maltesson	Quantum computing theory	Chalmers	Conversion of non-Gaussian states with deterministic Gaussian protocols
21	Ariadna Soro	Quantum computing theory	Chalmers	Giant Atoms in a 2D structured environment
22	Lucas Knuthson	Quantum computing theory	LU	Folding lattice proteins confined on minimal grids\\ using a quantum-inspired encoding
23	Marvin Richter	Quantum computing theory	Chalmers	Routing Quantum Circuits with AlphaZero Deep Exploration
24	Moritz Lange	Quantum computing theory	GU	Neural matching decoder for surface codes
25	Nathaniel Helgesen	Quantum computing theory	LiU	Living on the Edge: Boosting the Validity of Multi-Class Quantum Outputs via Round-Robin Tournament Scoring
26	Simon Pettersson Fors	Quantum computing theory	Chalmers	Explaining the ZZ coupling in transmons
27	Zeidan Zeidan	Quantum computing theory	Chalmers	Photon superbunching in the field scattered from coherently driven atoms in a waveguide
28	Alberto Del Ángel	Quantum communication	Chalmers	Quantum Electrodynamics with Josephson junctions.
29	Anton Talkachov	Quantum communication	KTH	Connecting Qubits Using Ferroelectric Domain Walls
30	Daniel Spiegel-Lexne	Quantum communication	LiU	Polarization encoded Single Photon Storage using Sagnac Inteferometer with Low Loss Poled Optical Fibers
31	David Hambræus	Quantum communication	Chalmers	Inverse Design of Release-free Optomechanical Crystals
32	Erik Svanberg	Quantum communication	KTH	Quantum noise locking of squeezed light generated in periodically poled Lithium Niobate waveguides
33	Govind Krishna	Quantum communication	KTH	CPA in programmable photonic chip
34	Joakim Argillander	Quantum communication	LiU	High-dimensional quantum random number generation with spatially encoded qutrits
35	Johan Kolvik	Quantum communication	Chalmers	Thermally Robust Release-Free Optomechanical Crystals
36	Paul Burger	Quantum communication	Chalmers	Towards release free piezo-optomechanical quantum transduction
37	Sara Persia	Quantum communication	Chalmers	Two mode quadrature squeezing in SiN microring resonators
38	Tanguy Schetelat	Quantum communication	KTH	Dynamic modulation of a nanowire quantum dot using surface acoustic waves
39	Zesheng Xu	Quantum communication	KTH	Implement Non-Hermitian Transfer in a full linear Photonics integrated circuit.