

WACQT May-meeting 2024 - postersession

Board no	Name PhD student	Pillar	University	Title of poster/project
1	Alberto Del Ángel Medina	Quantum communication	Chalmers	Effects of environment correlations on the onset of spontaneous decay in waveguide QED
2	Jiaying Yang	Quantum communication	Chalmers	Photon emission for distributed quantum computing
3	Joey Frey	Quantum communication	Chalmers	Release-free piezomechanical crystals for quantum microwave-optics transduction
4	Paul Burger	Quantum communication	Chalmers	Designing non-suspended piezo-optomechanical transducers
5	Sara Persia	Quantum communication	Chalmers	Bi-photon spectral correlation through SET
6	Albert Peralta Amores	Quantum communication	KTH	Tunable Generation of Counter-Propagating Twin Photons
7	Anton Talkachov	Quantum communication	KTH	Connecting Qubits Using Ferroelectric Domain Walls
8	Daiheng Fu	Quantum communication	KTH	Polarization coupling in thin film lithium niobate waveguides
9	Hilma Karlsson	Quantum communication	KTH	Towards Twin-Field Quantum Key Distribution
10	Tanguy Schetelat	Quantum communication	KTH	Dynamic modulation of a nanowire quantum dot using surface acoustic waves
11	Tiantong Li	Quantum communication	KTH	Engineering optical polarization coupling in linbo3 nanophotonic wires
12	Daniel Spegel-Lexne	Quantum communication	LiU	Orbital Angular Momentum Wave-Particle Duality in a Few-Mode Optical Fiber Platform
13	Joakim Argillander	Quantum communication	LiU	Secure Quantum Random Number Generation with Perovskite Photonics
14	Martin Clason	Quantum communication	LiU	National Testbed for Long Distance Quantum Communication in Sweden
15	Govind Krishna	Quantum communication	SU	Quantum magneto optics
16	Jaewon Lee	Quantum communication	SU	Impact of temporal correlations, coherence, and postselection on two-photon interference
17	Amr Osman	Quantum computing experiment	Chalmers	Design and characterization of QPU
18	Christian Križan	Quantum computing experiment	Chalmers	Synthetic SWAP operations
19	Emil Rehnman	Quantum computing experiment	Chalmers	Geometric Scaling of Competing Loss Mechanisms in Superconducting Coplanar Waveguides
20	Erika Magnusson	Quantum computing experiment	Chalmers	Chemistry on quantum computers -- trying to mitigate noise by decreasing circuit depth and width
21	Hampus Renberg Nilsson	Quantum computing experiment	Chalmers	Peripheral circuits for ideal performance of a travelling-wave parametric amplifier
22	Hang-Xi Li	Quantum computing experiment	Chalmers	Experimentally verified, fast analytic and numerical design of superconducting resonators in flip-chip architectures
23	Kunal Helambe	Quantum computing experiment	Chalmers	Indirect probing of cavity state
24	Juan Carlos Rivera	Quantum computing experiment	KTH	Control of multi-modal scattering in a microwave frequency comb
25	Natalia Kuk	Quantum computing experiment	SU	Experimental setup for trapped Rydberg ions in cryogenic environment
26	Adithi Udupa	Quantum computing theory	Chalmers	non-Markovian effects in bosonic channels induced by RTN
27	Ariadna Soro Alvarez	Quantum computing theory	Chalmers	Giant atoms in 2D structured environments
28	Hanna Linn	Quantum computing theory	Chalmers	Protein folding with gate-based quantum computers

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29	Isak Brundin	Quantum computing theory	Chalmers	Transferability of Optimal Quantum Approximate Optimization Algorithm Parameters at shallow depths
30	Marvin Richter	Quantum computing theory	Chalmers	Routing Quantum Circuits with AlphaZero Deep Exploration
31	Simon Pettersson Fors	Quantum computing theory	Chalmers	Understanding the ZZ coupling through Schrieffer-Wolff diagrammatics
32	Trond Haug	Quantum computing theory	Chalmers	Heralding entangled optical photons from a microwave quantum processor
33	Zeidan Zeidan	Quantum computing theory	Chalmers	Simulating the Recursive Quantum Approximate Optimization Algorithm with Noise
34	Ferdinand Omlor	Quantum computing theory	LU	Coupling Electron Spins in Quantum Rings to Microwave Photons
35	William Samuelson	Quantum computing theory	LU	Minimal quantum-dot-based Kitaev chain and poor man's Majoranas
36	Achintya Paradkar	Quantum Sensing, metrology & control	Chalmers	Flux coupling of a magnetically levitated superconducting microparticle to a superconducting flux tunable resonator
37	Alexander Jung	Quantum Sensing, metrology & control	Chalmers	Optomechanical Microcavity With a Tensile-strained InGaP Membrane
38	Claudia Castillo-Moreno	Quantum Sensing, metrology & control	Chalmers	Dynamical excitation control and multimode emission of an atom-photon bound state
39	Vyom Kulkarni	Quantum Sensing, metrology & control	Chalmers	Microwave Photodetector based on the Symmetry-Selective Device
40	Martin Ankel	(Quantum Sensing, metrology & control)	Chalmers	World's Foremost Noise Radar System
41	Abhilash Kulkarni	Quantum Sensing, metrology & control	KTH	Dual color NIR Fluorescence Cross Correlation Spectroscopy using a single superconducting nanowire single photon detector
42	Stephane Cohen	Quantum Sensing, metrology & control	KTH	Spectrometer readout using SNSPD arrays
43	William Stenlund	Quantum Sensing, metrology & control	LiU	How To Automatically Find The Symmetry Of Defect Orbitals
44	Drilon Zenelaj	Quantum Sensing, metrology & control	LU	Wigner function approach to photodetection in a resonator-coupled DQD
45	Gabriele Cobucci	Quantum Sensing, metrology & control	LU	Genuinely high-dimensional genuine multipartite entanglement
46	Kalle Kansanen	Quantum Sensing, metrology & control	LU	Photon counting to reveal nonclassical correlations
47	Marcus Lindén	Quantum Sensing, metrology & control	LU	Laser frequency stabilization beyond the Brownian noise limit
48	Nicola d'Alessandro	Quantum Sensing, metrology & control	LU	Resource efficient hierarchy for high-dimensional steering certification
49	Sankaran Ramesh	Quantum Sensing, metrology & control	LU	Entangled Photon Spectroscopy
50	Oscar Arandes Tejerina	Quantum Sensing, metrology & control	SU	Non-Hermitian Quantum Sensors
51	Robin Thomm	Quantum Sensing, metrology & control	SU	Bright and dark states of motion of a single trapped ion