Spring School on Quantum Optics in Coherent Circuits 2026

Contributions & Contributors

#	Full Name / Institution	Format	Session	Title
1	**Kirill Fedorov** *PD Dr.* *Walther-Meisner-Institut*	Lecture course		Introduction to Quantum Optics & CV Measurements and QI processing
2	**José Aumentado** *Professor* *NIST Boulder*	Lecture course		Introduction to Parametric Devices & Parametric Coupled Mode Theory & Amplifiers
3	**Olivier Pfister** *Professor* *University of Virginia*	Lecture course		Measurement-based Quantum Computing
4	**Anja Metelmann** *Professor* *Karlsruhe Institute of Technology*	Lecture course		Parametric effects in the Quantum Regime & Non-reciprocal Devices
5	**Alessio Serafini** *Professor* *University College London*	Lecture course		Quantum Info with Gaussian States & Superposition of Quantum Gaussian Processes
6	**Peter Samuelsson** *Professor* *Lund University*	Lecture course		"Open quantum systems & Light matter interaction
7	**David B Haviland** *Professor* *KTH*	Talk	Evening Seminar 1	Measurement-based quantum computing with CV

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#	Full Name / Institution	Format	Session	Title
8	**Fabio Lingua** *Postdoc* *KTH*	Talk	Evening Seminar 1	Continuous-variable two-dimensional cluster states at microwave frequencies
9	**Kirill Petrovnin** *Postdoc* *Aalto University*	Talk	Evening Seminar 1	Observation of quantum advantage in microwave phase sensing
10	**Pertti Hakonen** *Professor* *Aalto University*	Talk	Evening Seminar 2	Electron Quantum Optics using Quantum Hall Edge States
11	**Ekaterina Mukhanova** *PhD student* *Aalto University*	Talk	Evening Seminar 2	1/f noise in Traveling Wave Parametric Amplifier
12	**Ilari Lilja** *PhD student* *Aalto University*	Talk	Evening Seminar 2	Calibration methods for cryogenic measurements
13	**Louise Olausson** *PhD student* *Lund University*	Talk	Section 1	Mo-InGaAs-Mo Josephson field-effect transistors (JoFETs)
14	**Samuel Andersson** *PhD Student* *Lund University*	Talk	Section 1	Charge sensing through coherent interaction
15	**Brij Mohan** *Postdoc* *University Of Oulu*	Talk	Section 2	Autonomous Quantum Refrigerators via Two-Photon Transitions
16	**Héctor Calero Mas** *PhD student* *Centre for Quantum technologies*	Talk	Section 2	Single-atom maser in bosonic circuit QED through flux-activated parametric dissipation

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17	**Borhan Ahmadi** *Postdoc* *University of Gdansk*	Talk	Section 2	Reservoir-Engineered Exceptional Points for Quantum Energy Storage
18	**Matteo Arfini** *PhD student* *Delft University of Technology*	Talk	Section 3	Cavity optomechanics through a nonlinear interaction between a mechanical oscillator and a driven electromagnetic cavity
19	**Alkim Bozkurt** *Postdoc* *École Normale Supérieure de Lyon*	Talk	Section 3	A mechanical quantum memory for microwave photons
20	**Luuk van den Berg** *PhD fellow* *University of Copenhagen*	Talk	Section 3	Cooling by Measurement: Quantum state engineering through continues measurement
21	**Pinara Evren Korkmazgil** *PhD Student* *Aalto University*	Talk	Section 3	Measurement of the Casimir Force Between Superconductors
22	**Mikael Vartiainen** *PhD student* *Aalto University*	Talk	Section 4	Entanglement under multiple parametric excitations in quantum circuits
23	**Steven Kim** *PhD student* *RWTH Aachen University*	Talk	Section 4	Photon counting beyond the rotating-wave approximation
24	**Abhijith Ravikumar** *PhD student* *Palacky University*	Talk	Section 4	Nonclassicality of Quantum Hypergraph States in Continuous Variables
25	**Anna Khylenko** *PhD student* *Oulu University*	Talk	Section 5	Subradient state dynamics and gate implementation in transmon pair arrays

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#	Full Name / Institution	Format	Session	Title
26	**David López Núñez** *Hardware Lead* *Qilimanjaro Quantum Tech*	Talk	Section 5	Tunable and coupled fluxonium circuits designed for analog quantum dynamics
27	**Philippe Andreas Gigon** *PhD Student* *WMI/TUM*	Talk	Section 5	Long Distance Entanglement Stabilization From Driven Two-Level Systems
28	**Antonio Orsi** *PhD student* *University of Naples Federico II*	Talk	Section 6	Squeezing generation in a flux-tunable Josephson traveling-wave parametric amplifier
29	**Alessandro Alocco** *PhD student* *Polytechnic University of Torino / INRiM*	Talk	Section 6	Programmable microwave cluster states via Josephson metamaterials
30	**Andrea Cicovic** *PhD student* *Lund University*	Poster	Poster session	Protected Charge Readout utilizing Nonlinear Resonators
31	**Emanuele Palumbo** *PhD student* *Polytechnic University of Turin / INRiM*	Poster	Poster session	Model-Driven Analysis of a Superconducting Microwave Frequency Comb for Phase-Coherent Quantum Measurements
32	**Marcello Faggionato** *PhD student* *Fondazione Bruno Kessler*	Poster	Poster session	Novel approaches for the development and characterization of Josephson junctions
33	**Albin Edenmyr** *PhD student* *Chalmers University of Technology*	Poster	Poster session	Compact lumped element readout resonators

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34	**Andrea Celotto** *PhD student* *Polytechnic University of Turin / INRiM*	Poster	Poster session	Identification of noise mechanisms in superconducting traveling-wave devices by characterizing the multimode scattering parameters
35	**Chulhyeong Lee** *PhD student* *Niels Bohr Institute*	Poster	Poster session	Mechanical membrane longitudinally coupled to a flux-tunable transmon superconducting qubit
36	**Fabian Müller** *PhD student* *Charles University*	Poster	Poster session	Interferometric Mass Photometry at the Quantum Limit of Sensitivity
37	**Ferdinand Omlor** *PhD student* *Lund University*	Poster	Poster session	Spin-photon coupling using double quantum dot rings
38	**Joel Sandås** *PhD student* *Chalmers University of Technology*	Poster	Poster session	Parametric CZ-gate calibration on a large quantum device
39	**Ling Chen** *PhD student* *Center for Quantum Technology*	Poster	Poster session	Integrated photonics is a promising platform for scalable quantum networks. (needs title)
40	**Marius Hope** *PhD candidate* *University of South-Eastern Norway*	Poster	Poster session	Preparation of orthogonally squeezed vacuum states with applications in quantum error correction
41	**Pedro De Castro Portugal** *Postdoc* *Aalto University*	Poster	Poster session	Generation of heat pulses in mesoscopic conductors using light

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42	**Subarna Adhikari** *PhD student* *University of Oulu*	Poster	Poster session	Quantum cybersecurity in cloud-based quantum computing
43	**Theresa Fuchs** *PhD student* *Chalmers University of Technology*	Poster	Poster session	Characterization of low-frequency AC-flux crosstalk
44	**Yash Parihar** *PhD student* *Univerzita Palackého v Olomouci*	Poster	Poster session	Entanglement of qubits via squeezing-mediated transduction
45	**Yining Jiang** *PhD student* *Aalto University*	Poster	Poster session	Long lived quantum memory in bandgap-engineered cavity optomechanical devices
46	**Aleksandr Strelnikov** *PhD student* *Aalto University*	Poster	Poster session	Otto refrigerator in high-frequency regime
47	**Lilian Kekkonen** *BcS student* *Aalto University*	Poster	Poster session	Homo/Heterodyne balanced detection of microwaves using TWJPA