

Posters

Poster Session 1 / Monday, Jan. 11 / 15:45 – 17:00 h (14 Posters)

<i># in session</i>	<i>Name</i>	<i>Title</i>
P01	Ondrej Cernotik	Microwave entanglement created using swap gates with biased noise
P02	Ivari Pietikäinen	Microwave swap gates with a Kerr-cat ancilla
P03	<i>(cancelled at short notice)</i>	
P04	Max Werninghaus	Optimal Control of Superconducting Qubits
P05	Gaurav Bhole	Rescaling Interactions for Quantum Control
P06	<i>(cancelled at short notice)</i>	
P07	Tobias Hangleiter	Filter Function Formalism for Quantum Operations
P08	Ashish Mani	Towards quantum evolutionary search and optimization on NISQ devices
P09	Göran Wendin	Benchmarking the Variational Quantum Eigensolver for Quantum Chemistry on High-Performance Computers
P10	<i>(cancelled at short notice)</i>	
P11	Rebekka Garreis	Charge detection in electrostatically defined quantum dots on bilayer graphene
P12	Chuyao Tong	Tunable Valley Splitting in Bilayer Graphene Quantum Dots

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- P13** Amin Hosseinkhani **Theory of valley splitting and valley-induced relaxation of a single silicon spin qubit in the presence of interface disorder**
- P14** Riccardo Borgani **Adapting 5G-telecom hardware for the control of quantum computers**
- P15** Seref Kalem **Silicon quantum pillars for possible scalable HW platforms**
- P16** Mats Tholén **General-Purpose firmware for controlling quantum processors**
- P17** Robert Gartmann **Highly integrated RF electronics to interface superconducting qubits**

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Poster Session 2 / Tuesday, Jan. 12 / 15:45 – 17:00 h (17 Posters)

<i># in session</i>	<i>Name</i>	<i>Title</i>
P01	Daniel Jirovec	A depletion mode hole spin-qubit in Ge
P02	Theodor Lundberg	Accurate Readout of Spin States in Silicon Nanowire Quantum Dots
P03	Andras Palyi	Charge noise and overdrive errors in reflectometry-based qubit readout
P04	Adrien Morel	Cryogenic current-steering DAC for biasing of quantum dots
P05	Réouven Assouly	Number-resolved photocounter for propagating microwave mode
P06	Michael Renger	Beyond the standard quantum limit of parametric amplification
P07	Clemens Müller	Quantum rifling - Protecting a qubit from measurement back action
P08	Mikko Möttönen	Radio frequency quantum-circuit refrigerator and the resulting photon-number-dependent Lamb shift
P09	Jeremy Stevens	Cavity-photon induced state transitions in a coupled Fluxonium qubit system
P10	<i>(cancelled at short notice)</i>	
P11	Federico Roy	Control, Calibration and Characterization of superconducting qubits

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- P12** Richard Gebauer **Integrated scalable electronics platform to interface superconducting qubits**
- P13** Oliver Sander **Partitioning of functionality for superconducting qubit control and readout**
- P14** Camille Chartrand **A silicon-integrated telecommunications photon-spin interface**
- P15** Albert Hertel **Electrical properties of selective area grown superconductor-semiconductor hybrid structures on silicon**
- P16** Matthias Rößler **Top-down Topological Insulator Nanowires for Majorana-Qubits**
- P17** Rubén Seoane Souto **Optimal manipulation of Majorana bound states using quantum dots**
- P18** Manohar Kumar **Anyonic statistics in collider geometry**

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Poster Session 3 / Wednesday, Jan. 13 / 11:00 – 12:30 h (17 Posters)

<i># in session</i>	<i>Name</i>	<i>Title</i>
P01	Janine Hilder	A shuttling-based trapped-ion quantum information processing node
P02	Christian Melzer	Control Software Stack for Shuttling-Based Trapped-Ion Quantum Computing
P03	Daniel Wessel	Components for scalable quantum logic with trapped ions
P04	Matthias Mergenthaler	Effects of surface treatments and packaging on transmon qubits
P05	Uwe von Lüpke	Flip chip technique for hybrid quantum systems
P06	Martin Weides	Coherent superconducting qubits from a subtractive junction fabrication process
P07	Benedikt Kratochwil	The CQ3 Qubit spectroscopy and coherence
P08	Jacob Koenig	Selectively Activated Photon-Hopping, Cross-Kerr, and Two-Mode Squeezing via Flux Modulation of a Tunable C
P09	Benjamin Schiffer	Faster adiabatic ground state preparation with few measurements
P10	Nicolas Wittler	An integrated tool-set for Control, Calibration and Characterization of quantum devices applied to superconducting qubits

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- P11** Xiaosong Ma **An integrated heterogeneous superconducting-silicon-photonic platform for quantum network**
- P12** Hugo Doleman + Tom Schatteburg **Towards quantum optomechanics using bulk acoustic wave resonators**
- P13** Tomas Ramos **Scalable multiphonon generation from cavity-synchronized single-photon sources**
- P14** Rene Otten **Scalable Cryogenic Control of Spin qubits**
- P15** Florian Ginzel **Spin Shuttling in a Silicon Double Quantum Dot**
- P16** Cécile Yu **High-Impedance NbN Microwave Resonator as a Quantum Bus for Si Hole Spin Qubits**
- P17** Jann Hinnerk Ungerer **Engineering of a semiconductor charge qubit coupled to a resonator – From coherence protection to ultrastrong coupling**