

Poster presentations - 7th Seefeld Workshop on Quantum Information, 21.-26. Juni, 2026 in Seefeld, Austria

Tuesday, June 23		
Aigner	Paul	On the power of moving quantum sensors: fully flexible and noise-resilient sensing
Aigner	Gregor	A locality preserving dynamic fermion-to-qubit mapping
Akibue	Seiseki	Universal limitations of entanglement-assisted implementation of non-local quantum processes
Andreadakis	Faidon Nikolaos	An Exact Link between Nonlocal Nonstabilizerness and Operator Entanglement
Baccari	Flavio	Average-computation benchmarking for local expectation values in digital quantum devices
Baghdasaryan	Baghdasar	Asynchronous Multiphoton Interference for Quantum Networks
Balanzó-Juandó	Maria	Generalized measurement incompatibility
Barberà Rodríguez	Júlia	Sampling Groups of Pauli Operators to Enhance Direct Fidelity Estimation
Bärligea	Adelina	The Power of Lie-Algebraic Simulation for Quantum Mean Values
Bäumer Marty	Elisa	Practical Entanglement Distillation Protocols with Quadratic Error Suppression
Bäumli	Stefan	Updates on the bound key conjecture
Bluhm	Andreas	Towards a complexity theory for non-local quantum computation
Casado Pascual	Jesus	Quantum reinforcement learning in the presence of thermal dissipation
Claudet	Nathan	The Structure of Circle Graph States (F. Hahn)
Crupi	Marianna	Efficient characterization of coherent and correlated low-degree noise in layers of gates
Denker	Sophia	Genuine multipartite high-dimensional entanglement and the partition rank
Egelhaaf	Sophie	Certifying components of quantum networks using the generalised Choi isomorphism
Emonts	Patrick	Detecting Bell Correlations in Superconducting Devices
Epping	Michael	Unobservable Measurements and Decoherence from Complexity
Erker	Paul	Radio-Frequency Side Channel of a Trapped-Ion Qudit Quantum Computer
Fraenkel	Shachar	Spreading of non-Gaussianity in a fermionic impurity circuit
García-Martín	Diego	Matchgate synthesis via Clifford matchgates and T gates
Giudice	Giacomo	Universal quantum computation via scalable measurement-free error correction
Giudici	Giuliano	Adiabatic echo protocols for robust many-body state preparation
Hahn	Alexander	Learning a logical Lindbladian in fault-tolerant digital quantum simulation
Hahn	Frederik	The Structure of Circle Graph States (N. Claudet)
Heightman	Timothy	Quantum Process Tomography with Neural Differential Equations
Horodecki	Karol	Quantifying energy consumption of entanglement generation
Hu	Mengyao	Many-body k -local ground states as probes for unitary quantum metrology
Jiang	Edward	Normalizing Flows for Classical Simulation of Quantum Circuits in Phase Space
Klaver	Berend	TBA
Kleinpaß	Philipp	Advantage Distillation with Repetition Codes in Decoy-State Quantum Key Distribution
Knörzner	Johannes	Estimating traces of quantum state powers via randomized projections
Kraft	Tristan	Bounded-Error Quantum Simulation via Hamiltonian and Lindbladian Learning
Langer	Marc	Matchgate circuit representation of fermionic Gaussian states: optimal preparation, approximation, and classical simulation
Liu	Shuheng	Certifying high-dimensional multipartite entanglement via covariance and quantum Fisher information
Liu	Yuhan	Exploring Mixed-State Quantum Phases via Analytical Tensor Networks
Lobo	Edwin	Generalized measurement incompatibility (joint work with Maria Balanzó-Juandó and Stefano Pironio)
Ludwig	Falk	Local unitary equivalence of generic pure 5-qubit-states in an SLOCC class
Thursday, June 25		
Maccione	Lorenzo	Geometric Event-Based relativistic quantum mechanics
Majumder	Arunava	Minimizing classical resources in non-unitary variational measurement-based quantum computation for generative modeling
Makuta	Maksyusz	Genuine multipartite nonlocality detection in graph states
Mathe	Julia	Thermal Entanglement and Out-of-Equilibrium Thermodynamics in 1D Bosonic Systems
McMahon	Nathan	Imaginary time evolution, gradient descent, and phases of matter
Miethlinger	Markus	Preparability Criteria for Quantum Networks using the Schmidt Decomposition and Higher Order Singular Value Decomposition
Miguel-Ramiro	Jorge	Quantum Network Primitives: Diagnosing and switching entanglement
Mildenberger	Julius	Quantum Simulation with Gauge Symmetries: From Error Mitigation to Error Correction
Mishra	Ida	Fidelity-based entanglement certification in continuous-variable systems
Morelli	Simon	Sequential parameter testing
Moreno Cuadrado	Isabel Maria	Towards exponential lower bounds in Position Based Cryptography. (Poster)
Niwa	Ryotaro	Scaling-optimal purification of noisy qubit unitary channels
Olivera Atencio	Maria Laura	Exploring fixed points and eigenstates of quantum systems with reinforcement learning
Orsucci	Daive	Advantage Distillation with Repetition Codes in Decoy-State Quantum Key Distribution
Peres	Filipa	Resource-Efficient Secure Delegation via Pauli-Based Computation
Poulsen Nautrup	Hendrik	Necessary and Sufficient Conditions for Universal Gates with Pauli Strings and beyond
Rattacaso	Daive	Quantum algorithms for equational reasoning
Ravell Rodríguez	Ricard	Quantum sensing of a quantum field
Renner	Martin J.	Full nonlocality for non-maximally entangled states
Resch	Miriam	Fast initialization of Bell states with Schrödinger cats in multimode systems
Romanova	Alena	Blind quantum computing with different qudit resource state architectures
Santamaria-Sanz	Lucia	Combinatorial $U(1)$ -Resolved Entanglement in Multi-Excited QFT States
Schiffer	Benjamin	Hardware-efficient quantum phase estimation via local control
Schut	Martine	Delocalisation of a large mass in an RF trap
Smith	Isaac	Witnessing non-preparability of states in quantum networks
Stengele	Sebastian	Rapid thermalization of lattice CSS codes
Stloukalova	Katerina	Localized Entanglement Purification Protocol
Stroeks	Maarten	Optimizing fermionic Hamiltonians with classical interactions
Studzinski	Michal	Simple harmonic oscillators from non-semisimple walled Brauer algebras
Taranto	Philip	Singular value transformation for unknown quantum channels
Tendick	Lucas	Measurement incompatibility and genuine multipartite steering
Tjoa	Erickson	Tensor networks for infinite-dimensional bosonic many-body systems
Tura	Jordi	Tailoring Bell inequalities to the qudit toric code and self testing
Vandré	Lina	Effects of Memory Buffer Distribution on the Performance of Quantum Repeaters
Wallnöfer	Julius	Measurement-based error correction for long-range entanglement generation
Winczewski	Marek	Energy Cost of a Quantum Operation: From Axioms to a Hamiltonian Framework
Wyderka	Nikolai	Maximally non-projective measurements are not always symmetric informationally complete