

QCTiP24 Accepted Posters

Poster Allocations

Poster session 1 is happening on **Day 1, 16th of April, 17:45-19:30** (marked in blue)

Poster session 2 is happening on **Day 2, 17th of April, 17:45-19:1**. (marked in yellow)

Please find your session in the table below.

Poster Size: Our recommended poster size for the conference is **A1**. However, in case you have a poster printed already, we can accommodate up to an **A0-size portrait** (A0 landscape won't fit!)

Poster Submission Number	Allocated Session (Day1 or 2)	Title
2	1	Overhead-constrained circuit knitting for variational quantum dynamics
7	2	On the expressivity of embedding quantum kernels
8	2	Improving the speed of variational quantum algorithms for quantum error correction
11	1	Persistent Non-Gaussian Correlations in Out-of-Equilibrium Rydberg Atom Arrays
17	2	Almost Optimal Computational Basis State Transpositions
20	1	Improved Financial Forecasting via Quantum Machine Learning
22	1	Port-based entanglement teleportation via noisy resource states
25	2	No free lunch theorems for quantum state measurements as resources in classical sampling and generative modelling
26	1	Low-Overhead Parallelisation of LCU via Commuting Operators
28	2	Fault Tolerance Beyond Clifford
29	2	Simulating experimental implementations of virtual distillation on noisy modular quantum hardware
34	1	Geodesic Algorithm for Unitary Gate Design with

		Time-Independent Hamiltonians
38	1	On Quantum Natural Policy Gradients
39	1	What can we learn from Quantum Convolutional Neural Networks
40	1	Efficient Implementation of Multi-Controlled Quantum Gates
42	2	Probing contextuality and quantum coherences using the quantum Cheshire cat paradox
44	2	A hybrid quantum algorithm to detect conical intersections
45	1	Exact results on finite size corrections for surface codes tailored to biased noise
47	1	Error-corrected Hadamard gate simulated at the circuit level
48	2	Information locking and its resource-efficient extraction
49	2	Quantum Fourier Networks for Solving Parametric PDEs
50	1	Quantum-classical hybrid GANs: their use in chemistry simulation and beyond
52	1	Time-optimal multi-qubit gates: Complexity, efficient heuristic and gate-time bounds
53	2	Energy Efficiency of Quantum Statevector Simulation at Scale
57	2	Symmetry breaking in geometric quantum machine learning in the presence of noise
58	1	Tunable Coupler to fully decouple and maximally localize superconducting qubits
61	1	Efficient stabilizer entropies for quantum computers
62	2	Encoding optimization for quantum machine learning demonstrated on a superconducting transmon qutrit
67	2	Efficient quantum amplitude encoding of polynomial functions
68	1	Noise-aware quantum amplitude estimation
72	1	Lift-Connected Surface Codes
73	1	The power of shallow-depth Toffoli and qudit quantum circuits
75	2	Data-driven decoding of quantum error correcting codes using graph neural networks

76	2	Benchmarking the algorithmic performance of near-term neutral atom processors
79	1	Implementing the quantum fanout operation with simple pairwise interactions
81	1	Quantum Computed Green's Functions using a Cumulant Expansion of the Lanczos Method
83	1	Practical Quantum Simulations from Error Mitigation and Qubit Subspace Techniques
85	2	On fundamental aspects of Quantum Extreme Learning Machines
86	2	
89	1	Highly Efficient Encoding for Job-Shop Scheduling Problems and its Application on Quantum Computers
90	1	EXISTENTIAL UNFORGEABILITY IN QUANTUM AUTHENTICATION FROM QUANTUM PHYSICAL UNCLONABLE FUNCTIONS BASED ON RANDOM VON NEUMANN MEASUREMENT
91	2	Calculating many-body density of states on quantum computers
97	2	Shell-model study of ^7Li using quantum computing algorithm
98	2	Finite-round quantum error correction on symmetric quantum sensors
99	1	Biased Estimator Channels for Classical Shadows
102	2	A blockBP decoder for the surface code
107	2	Error-tolerant quantum convolutional neural networks for symmetry-protected topological phases confirmed
108	2	
118	1	
120	1	Estimating the coherence of noise in intermediate-scale quantum systems
124	1	Squared overlap calculations with linear combination of unitaries
127	1	Multi-client distributed blind quantum computation with the Qline architecture
130	2	A Genetic Quantum Annealing Algorithm

133	2	Mitigating photon loss in linear optical quantum circuits
134	2	Simulating dynamical phase transitions in the thermodynamic limit with quantum tensor network circuits
135	2	Predicting Arbitrary State Properties from Single Hamiltonian Quench Dynamics
137	2	
139	1	Encoding quantum circuits onto graphs: computation of probability amplitudes via permanent
141	1	Geometric quantum machine learning of BQP ^A protocols and latent graph classifiers
142	1	Learning Quantum Processes with Quantum Statistical Queries
143	2	The closed-branch decoder for quantum LDPC codes
152	2	Quantum state preparation of gravitational waves
157	2	Heuristic-free Verification-inspired Quantum Benchmarking
159	2	A New Monogamy Game for Coset States With Applications to Copy-Protection
161	1	
163	1	State Purification with Symmetry Subgroup Projectors
164	2	Performance analysis of a filtering variational quantum algorithm
165	2	Constrained and Vanishing Expressivity of Quantum Fourier Models
168	2	Restricted Randomized Benchmarking with Universal Gates of Fixed Sequence Length
170	2	Experimental certification of contextuality, coherence and dimension in a programmable universal photonic processor
173	2	
174	1	Investigation of multi-qubit tunable coupler for parallel stabiliser readout
175	1	
176	1	To NISQ, and Beyond! The impact of noise on quantum simulation, and looking forward to accessibility of a quantum internet

179	2	A Quantum Computing Approach for Multi-robot Coverage Path Planning
180	1	Bounded Advice Classes
181	2	Quantum Error Mitigation via Linear Depth Verifier Circuits
182	1	Two-level decoding schemes for the XYZ^2 hexagonal stabilizer code
183	2	Experimental Steane error-correction
184	2	Efficient Learning of Long-Range and Equivariant Quantum Systems
185	1	Reduced qubit requirements for the quantum simulation of chemistry with virtual orbital localization in projection-based embedding
186	1	Tableaux Manipulation: Clifford compilation for quantum stabiliser circuits
187	2	Development of a quantum computing course for undergraduate computer science students
188	2	Improving logical qubit fidelity by using IQ readout information
189	2	Solver aided search for colour codes
190	1	Exact circuit implementation of S^2 -conserving fermionic UCCSD-singlet excitations
191	1	Behaviors of quantum neural network compared to classical models
192	1	Employing Quantum Information Science to Model Bacteria Growth
193	1	Implications of "Log-Sobolev" concentration inequalities for quantum machine learning
194	1	Low-depth measurement-based deterministic quantum state preparation
195	1	Introducing Actuation into Koopman Operator Learning of Loss Trajectories in Variation Quantum Algorithms
196	1	(In)finite Distance Extrapolation: how error mitigation complements quantum error correction
197	2	Encoding strong correlation in quantum chemistry on quantum computers
198	2	A Reinforcement Learning approach to Hamiltonian Eigenvalue Solving

