

TQC 2019 Talk Schedule

Monday, June 3

8:30-9:00	Breakfast (Calvert Ballroom Foyer)
8:50-9:00	Opening Remarks (Calvert Ballroom, Salon AB)
	Chair: Robin Kothari
9:00-9:45	Invited Talk: Ewin Tang Building a classical framework to analyze quantum machine learning speedups
9:45-10:15	Eddie Schoute Circuit Transformations for Quantum Architectures <i>merged with</i> Ross Duncan On the qubit routing problem
10:15-10:45	Coffee Break
	Chair: Thomas Vidick
10:45-11:10	Raylen Witter Applications of the quantum algorithm for st-connectivity
11:10-11:35	Francois Le Gall Quantum Advantage for the LOCAL Model in Distributed Computing
11:35-12:00	Carlos Gonzales-Guillen History-state Hamiltonians are critical
12:00-14:00	Lunch Break (Crossland Ballroom)
	Chair: Yi-Kai Liu
14:00-14:25	Alex Bredariol Grilo A simple protocol for verifiable delegation of quantum computation in one round

14:25-14:50	Tommaso Gagliardoni Unforgeable Authentication and Signing of Quantum States
14:50-15:15	Alexander Poremba On Quantum Chosen-Ciphertext Attacks and Learning with Errors
15:15-15:45	Coffee Break
	Chair: François Le Gall
15:45-16:10	Robin Kothari Quantum distinguishing complexity, zero-error algorithms, and statistical zero knowledge
16:10-16:35	Tina Zhang Classical zero-knowledge arguments for quantum computations
16:35-17:00	Claude Crépeau The RGB No-Signalling Game
17:15-19:15	TQC Poster Session (Foyer A)

Tuesday, June 4

8:30-9:00	Breakfast (Calvert Ballroom Foyer)
	Chair: Albert H. Werner (Calvert Ballroom, Salon AB)
9:00-9:45	Invited Talk: Ken Brown Error Reduction, Fault Tolerance, and Scalability
9:45-10:15	Paul Boes Catalytic Quantum Randomness <i>merged with</i> Von Neumann entropy from unitarity
10:15-10:45	Coffee Break

	Chair: Xin Wang
10:45-11:10	Joel Wallman Efficient learning of Pauli channels
11:10-11:35	Aditya Nema Approximate unitary $n^{\{2/3\}}$ -designs give rise to quantum channels with super additive classical capacity
11:35-12:00	Christoph Hirche Convexity and Operational Interpretation of the Quantum Information Bottleneck Function
12:00-14:00	Lunch Break (Crossland Ballroom)
	Chair: Steve Flammia
14:00-14:25	Guanyu Zhu Universal logical gate sets with constant-depth circuits for topological and hyperbolic quantum codes
14:25-14:50	Guang Hao Low Trading T-gates for dirty qubits in state preparation and unitary synthesis
14:50-15:15	Christopher Granade Bayesian ACRONYM Tuning
15:15-15:45	Coffee Break
	Chair: Carl Miller
15:45-16:25	Outstanding Paper Award: John Smolin A compressed classical description of quantum states
16:25-16:50	Albert H. Werner Tensor network representations from the geometry of entangled states
16:50-17:15	Bryan O'Gorman Fine-grained parameterization of tensor network contraction
18:00-20:00	Conference Dinner (Top of the 7s Ballroom)

Wednesday, June 5

8:30-9:00	Breakfast (Calvert Ballroom Foyer)
	Chair: Elizabeth Crosson (Calvert Ballroom, Salon AB)
9:00-9:45	Invited Talk: David Gosset Quantum advantage with noisy and shallow quantum circuits
9:45-10:15	Mischa Woods Continuous groups of transversal gates for quantum error correcting codes from finite clock reference frames <i>merged with</i> Sepehr Nezami Continuous symmetries and approximate quantum error correction
10:15-10:45	Coffee Break
	Chair: Alexey Gorshkov
10:45-11:10	Ben Baragiola Quantum computing with rotation-symmetric bosonic codes
11:10-11:35	Johannes Borregaard One-way quantum repeater with minimal-resources
11:35-12:00	Iman Marvian Universal Quantum Emulator
12:00-14:00	Lunch Break (Crossland Ballroom)
	Chair: Shelby Kimmel
14:00-14:25	Invited Talk: András Gilyén Quantum Singular Value Transformation & its algorithmic applications

14:25-14:50	<p>Yuan Su Faster quantum simulation by randomization</p> <p><i>merged with</i></p> <p>Nearly optimal lattice simulation by product formulas</p>
15:15-15:45	Coffee Break
	Chair: Charles Cao
15:45-16:10	<p>Patricia Contreras Tejada A resource theory of entanglement with a unique multipartite maximally entangled state</p>
16:10-16:35	<p>Tamara Kohler Toy Models of Holographic Duality between local Hamiltonians</p>
16:35-17:00	<p>Alessandro Bisio Axiomatic theory of Higher-Order Quantum Computation</p>
17:15-19:15	Industry Session (Calvert Ballroom, Salon AB)