## **Accepted Posters for TQC 2019**

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1	Yong-Su Kim, Tanumoy Pramanik, Young-Wook Cho, Sang-Wook Han, Sang-	Verification of hidden Einstein-Podolsky-Rosen steering using local filtering
	Yun Lee and Sung Moon	operations
2	Flavio Baccari, Christian Gogolin, Peter Wittek and Antonio Acin	Verification of Quantum Optimizers
7	Koon Tong Goh, Chithrabhanu Perumangatt, Zhi Xian Lee, Alexander Ling and	Device-independent tools can be advantageous also when the experiment is not
	Valerio Scarani	device-independent
10	Christian Kokail and Rick van Bijnen	Self-Verifying Variational Quantum Simulation of Lattice Models
19	Andras Gilyen and Tongyang Li	Distributional property testing in a quantum world
23	Spencer Breiner, Amir Kalev and Carl Miller	Parallel Self-Testing of the GHZ State with a Proof by Diagrams
27	Amir Kalev, Anastasios Kyrillidis and Norbert Linke	Validating and Certifying Stabilizer States
28	Ignatius William Primaatmaja, Emilien Lavie, Koon Tong Goh, Chao Wang and	Almost-tight and versatile security analysis of measurement-device-independent
	Charles Ci Wen Lim	quantum key distribution
31	Samuele Ferracin, Theodoros Kapourniotis and Animesh Datta	Verifying quantum computations on noisy intermediate-scale quantum devices
32	Emilio Onorati, Albert H. Werner and Jens Eisert	Randomized benchmarking for individual quantum gates
34	Dominik Hangleiter, Martin Kliesch, Jens Eisert and Christian Gogolin	Sample complexity of device-independently certified "quantum supremacy"
35	Jose Lebreuilly	Many-body cat states via spontaneous symmetry breaking
41	Sisi Zhou, Chang-Ling Zou and Liang Jiang	Saturating the quantum Cramer-Rao bound using LOCC
44	Sisi Zhou, Wojciech Gorecki, David Layden, Mengzhen Zhang, John Preskill,	Quantum error correction in quantum metrology
44	Paola Cappellaro, Rafal Demkowicz-Dobrzanski and Liang Jiang	
47	Carlos Gonzalez-Guillen, Marius Junge and Ion Nechita	On the spectral gap of random quantum channels
50	Hayata Yamasaki and Mio Murao	One-way and two-way LOCC separation in entanglement cost of one-shot
		quantum state merging
55	Adam Callison, Nicholas Chancellor, Florian Mintert and Viv Kendon	Finding spin glass ground states using continuous-time quantum walks
56	Sevag Gharibian, Stephen Piddock and Justin Yirka	Oracle complexity classes and local measurements on physical Hamiltonians
59	Nai-Hui Chia, Tongyang Li, Han-Hsuan Lin and Chunhao Wang	Quantum-inspired classical sublinear-time algorithm for solving low-rank
		semidefinite programming via sampling approaches
62	Clément Meignant, Damian Markham and Frédéric Grosshans	Distributing Graph States Over Arbitrary Quantum Networks
65	Nai-Hui Chia, Sean Hallgren and Fang Song	On Basing One-way Permutations on NP-hard Problems under Quantum
0.5		Reductions
67	John Martyn and Brian Swingle	Product Spectrum Ansatz and the Simplicity of Thermal States
69	Sarah Brandsen, Mengke Lian, Kevin Stubbs, Narayanan Rengaswamy and	Adaptive Procedures for Discrimination of Arbitrary Tensor-Product Quantum
09	Henry Pfister	States
71	Siddhartha Santra, Liang Jiang and Vladimir Malinovsky	Quantum repeater architecture with hierarchically optimized memory buffer
		times
75	Narayanan Rengaswamy, Robert Calderbank and Henry Pfister	Unifying the Clifford Hierarchy via Symmetric Matrices over Rings
77	Wenlong Ma, Kyungjoo Noh, Philip Reinhold, Serge Rosenblum, Steven Girvin,	Fault-tolerant photon-number selective phase gates in circuit quantum
	Robert Schoelkopf and Liang Jiang	electrodynamics

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86	Mengzhen Zhang and Liang Jiang	Characterization of Clifford perfect tensors
87	Lucas Brady, Aniruddha Bapat and Alexey Gorshkov	QAOA Digitizes an Asymptotic Curve: A Path Sum Approach
90	IChangchun Zhong and Liang liang	Entanglement of Microwave-Optical Modes in a Strong Coupled Electro-
		Optomechanical System
91	Xin Wang, Mark Wilde and Yuan Su	Magic measures for quantum states and quantum channels
92	Stefan Krastanov, Sisi Zhou, Steven Flammia and Liang Jiang	Stochastic Estimation of Dynamical Variables
108	Connor Hann, Chang-Ling Zou, Yaxing Zhang, Yiwen Chu, Robert Schoelkopf,	Hardware-efficient quantum random access memory with hybrid quantum
	Steven Girvin and Liang Jiang	acoustic systems
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113	Andrew Glaudell and Jake Taylor	Optimal normal forms for two-qubit Clifford and Controlled Phase gate circuits
114	Blayney W. Walshe, Lucas J. Mensen, Ben Q. Baragiola and Nicolas C.	Robust fault tolerance for continuous-variable cluster states with excess anti-
114	Menicucci	squeezing
119	Nishad Maskara, Abhinav Deshpande, Minh C. Tran, Michael Foss-Feig, Bill	Complexity phase transitions in interacting and long-range bosonic Hamiltonians
119	Fefferman and Alexey V. Gorshkov	Complexity phase transitions in interacting and long-range bosonic Hamiltonians
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125	IMaxwell Henderson, Samriddhi Shakva and Tristan Cook	Quanvolutional Neural Networks: Powering Image Recognition with Quantum
123		Circuits
126	Omar Shehab, Isaac Kim, Nhung Nguyen, Kevin Landsman, Cinthia Alderete,	On boosting near-term variational quantum algorithms using past causal cones
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127	Andrew Guo, Minh Tran, Yuan Su, James R. Garrison, Zachary Eldredge,	Locality and digital quantum simulation of power-law interactions
	Michael Foss-Feig, Andrew Childs and Alexey Gorshkov	
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		Entanglement Problems
129	Andrew Childs and Jin-Peng Liu	Quantum Spectral Methods for Differential Equations
130	Valerio Scarani, Angeline Shu, Yu Cai, Stella Seah and Stefan Nimmrichter	Almost thermal operations: inhomogeneous reservoirs
131	Chiao-Hsuan Wang, José Lebreuilly, Kyungjoo Noh, Steven Girvin and Liang	Autonomous quantum error correction by engineered dissipation
	Jiang	
	Christian Majenz, Christian Schaffner and Jeroen van Wier	Non-malleability for quantum public-key encryption
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134		Body Systems
135	Sourav Kundu and Ben Reichardt	Logical operations on Majorana subsystem codes
136	Mohammad Alhejji and Graeme Smith	Monotonicity Under Local Operations: Linear Entropic Formulas
	Maicol Ochoa	Heat and energy dissipation in the simultaneous weak measurement of non-
		commuting observables.
138	Pei-Xin Shen and Mircea Trif	Spin Texture and Entanglement in Topological Spin Josephson Junctions