TQC 2019 + NISQ Tentative Schedule

TQC Conference Program

Time	Monday, Jun 3	Time	Tuesday, Jun 4	Time	Wednesday, Jun 5
8:30	Registration Opens				
8:50-9:00	Opening Remarks	8:30-9:00	Registration Opens	8:30-9:00	Registration Opens
9:00-9:45	**Invited Talk: Ewin Tang**	9:00-9:45	**Invited Talk: Ken Brown**	9:00-9:45	**Invited Talk: David Gosset**
9:45-10:15	Talk 1 (Merged)	9:45-10:15	Talk 11 (Merged)	9:45-10:15	Talk 21 (Merged)
10:15-10:45	Coffee Break	10:15-10:45	Cofee Break	10:15-10:45	Coffee Break
10:45-11:10	Talk 2	10:45-11:10	Talk 12	10:45-11:10	Talk 22
11:10-11:35	Talk 3	11:10-11:35	Talk 13	11:10-11:35	Talk 23
11:35-12:00	Talk 4	11:35-12:00	Talk 14	11:35-12:00	Talk 24
12:00-14:00	Lunch	12:00-14:00	Lunch	12:00-14:00	Lunch
14:00-14:25	Talk 5	14:00-14:25	Talk 15	14:00-14:45	**Invited Talk: András Gilyen**
14:25-14:50	Talk 6	14:25-14:50	Talk 16		
14:50-15:15	Talk 7	14:50-15:15	Talk 17	14:45-15:15	Talk 25 (Merged)
15:15-15:45	Coffee Break	15:15-15:45	Coffee Break	15:15-15:45	Coffee Break
15:45-16:10	Talk 8	15:45-16:25	Talk 18 (Outstanding Paper)	15:45-16:10	Talk 26
16:10-16:35	Talk 9	16:25-16:50	Talk 19	16:10-16:35	Talk 27
16:35-17:00	Talk 10	16:50-17:15	Talk 20	16:35-17:00	Talk 28
17:15-19:15	Poster Session	18:00-20:00	Conference Dinner	17:15-19:15	Industry Session

NISQ Workshop Program

Time	Thursday, Jun 6	Friday, Jun 7
8:45-9:00	Registration Opens	Registration Opens
9:00-9:15	Opening Remarks	
9:15-10:00	Chris Monroe	Mikhail Lukin
10:00-10:30	Coffee Break	
10:30-11:15	Paola Cappellaro	Hanhee Paik
11:15-12:00	Lorenza Viola	Peter Zoller
12:00-14:00	Lunch	
14:00-14:45	John Preskill	Krysta Svore
14:45-15:30	Dave Bacon	David Gosset
15:30-16:00	Coffee Break	
16:00-16:45		Elizabeth Crosson
16:45-17:30	Poster Session	Ashley Montanaro
17:30-18:00		

Talk #	Talk Title	Authors
1	Circuit Transformations for Quantum Architectures	Andrew Childs, Eddie Schoute and Cem Unsal
	On the qubit routing problem	Ross Duncan, Alexander Cowtan, Silas Dilkes, Alexandre Krajenbrink, Will Simmons and Seyon Sivarajah
2	Applications of the quantum algorithm for st-connectivity	Kai DeLorenzo, Shelby Kimmel and Raylen Witter
3	Quantum Advantage for the LOCAL Model in Distributed Computing	Francois Le Gall, Harumichi Nishimura and Ansis Rosmanis
4	History-state Hamiltonians are critical	Toby Cubitt and Carlos Gonzalez-Guillen
5	A simple protocol for verifiable delegation of quantum computation in one round	Alex Bredariol Grilo
6	Unforgeable Authentication and Signing of Quantum States	Gorjan Alagic, Tommaso Gagliardoni and Christian Majenz
7	On Quantum Chosen-Ciphertext Attacks and Learning with Errors	Gorjan Alagic, Stacey Jeffery, Maris Ozols and Alexander Poremba
8	Quantum distinguishing complexity, zero-error algorithms, and statistical zero knowledge	Shalev Ben-David and Robin Kothari
9	Classical zero-knowledge arguments for quantum computations	Thomas Vidick and Tina Zhang
10	The RGB No-Signalling Game	Xavier Coiteux-Roy and Claude Crépeau
11	Catalytic Quantum Randomness	Paul Boes, Henrik Wilming, Rodrigo Gallego and Jens Eisert
	Von Neumann entropy from unitarity	Paul Boes, Jens Eisert, Rodrigo Gallego, Markus Mueller and Henrik Wilming
12	Efficient learning of Pauli channels	Joel Wallman and Steve Flammia
13	Approximate unitary n^{2/3}-designs give rise to quantum channels with super additive classical capacity	Aditya Nema and Pranab Sen
14	Convexity and Operational Interpretation of the Quantum Information Bottleneck Function	Nilanjana Datta, Christoph Hirche and Andreas Winter
15	Universal logical gate sets with constant-depth circuits for topological and hyperbolic quantum codes	Guanyu Zhu, Ali Lavasani and Maissam Barkeshli
16	Trading T-gates for dirty qubits in state preparation and unitary synthesis	Guang Hao Low, Vadym Kliuchnikov and Luke Schaeffer
17	Bayesian ACRONYM Tuning	Nathan Wiebe, Christopher Granade and John Gamble
18	A compressed classical description of quantum states	David Gosset and John Smolin
19	Tensor network representations from the geometry of entangled states	Matthias Christandl, Angelo Lucia, Péter Vrana and Albert H. Werner
20	Fine-grained parameterization of tensor network contraction	Bryan O'Gorman
21	Continuous groups of transversal gates for quantum error correcting codes from finite clock reference frames	Alvaro Alhambra and Mischa Woods
	Continuous symmetries and approximate quantum error correction	Philippe Faist, Sepehr Nezami, Victor V. Albert, Grant Salton, Fernando Pastawski, Patrick Hayden and John Preskill
22	Quantum computing with rotation-symmetric bosonic codes	Arne Grimsmo, Joshua Combes and Ben Baragiola
23	One-way quantum repeater with minimal-resources	Johannes Borregaard, Hannes Pichler, Tim Schröder, Mikhail Lukin, Peter Lodahl and Anders Sørensen
24	Universal Quantum Emulator	Iman Marvian and Seth Lloyd
25	Faster quantum simulation by randomization	Andrew Childs, Aaron Ostrander and Yuan Su
	Nearly optimal lattice simulation by product formulas	Andrew Childs and Yuan Su
26	A resource theory of entanglement with a unique multipartite maximally entangled state	Patricia Contreras Tejada, Carlos Palazuelos and Julio de Vicente
27	Toy Models of Holographic Duality between local Hamiltonians	Tamara Kohler and Toby Cubitt
28	Axiomatic theory of Higher-Order Quantum Computation	Alessandro Bisio and Paolo Perinotti