

Monday – Poster Session A

Room A.1

A.1.1	A. Baris Ozguler, Vladimir E. Manucharyan, Maxim G. Vavilov	Excitation dynamics in galvanically coupled fluxonium circuits
A.1.2	Alexandru Cojocaru, Juan Garay, Aggelos Kiayias, Fang Song, Petros Wallden	The Bitcoin Backbone Protocol Against Quantum Adversaries
A.1.3	Amit Devra, Niklas J. Glaser, Steffen J. Glaser	Wigner Process Tomography of Unknown Quantum Propagators
A.1.4	Andreas Bärttschi, Stephan Eidenbenz	Grover Mixer QAOA: Feasible State Superpositions, Convergence to Optimum, and Limitations
A.1.5	Andrew Zhao, Nicholas C. Rubin, Akimasa Miyake	Fermionic partial tomography via classical shadows
A.1.6	Arian Vezvaei, Paul Hilaire, Matthew F. Doty, Sophia E. Economou	Ultrafast high-fidelity control of Lambda systems in the presence of unwanted transitions
A.1.7	Arthur Pesah, Marco Cerezo, Samson Wang, Tyler Volkoff, Andrew T. Sornborger, Patrick Coles	Absence of Barren Plateaus in Quantum Convolutional Neural Networks
A.1.8	Austin K. Daniel, Akimasa Miyake	Quantum computational advantage with string order parameters of 1D symmetry-protected topological order
A.1.9	Ryan LaRose, Brian Coyle	Robust Data Encodings for Quantum Classifiers
A.1.10	Bruna Gabrielly de Moraes, Aron Cummings, Stephan Roche	Emergence of intra-particle entanglement and time-varying violation of Bell's Inequality in Dirac Matter.
A.1.11	Cameron Foreman, Sherilyn Wright, Alec Edgington, Mario Berta, Florian J. Curchod	Practical randomness and privacy amplification
A.1.12	ChunJun Cao, Brad Lackey	Approximate Bacon-Shor Code and Holography
A.1.13	Daan Camps, Roel Van Beeumen	Approximate Quantum Circuit Synthesis using Block Encodings
A.1.14	Daniel Miller, Nikolai Wyderka, Panagiotis Barkoutsos, Matthias Miller, Hermann Kampermann, Dagmar Bruß, Ivano Tavernelli	Sector length distributions of noisy graph states
A.1.15	Christoph Hirche, Cambyse Rouze, Daniel Stilck França	On contraction coefficients, partial orders and approximation of capacities for quantum channel

Room A.2

A.2.1	Dmitry Grinko, Julien Gacon, Christa Zoufal, Stefan Woerner	Iterative Quantum Amplitude Estimation
A.2.2	Esteban Martínez-Vargas, Christoph Hirche, Gael Sentís, Michalis Skotiniotis, Marta Carrizo, Ramón Muñoz-Tapia, John Calsamiglia	Quantum Sequential Hypothesis Testing
A.2.3	Faedi Loulidi, Ion Nechita	The compatibility dimension of the quantum measurements
A.2.4	Farzin Salek, Andreas Winter	Multi-User Distillation of Common Randomness and Entanglement from Quantum States
A.2.5	Gregory D. Kahanamoku-Meyer, Soonwon Choi, Umesh V. Vazirani, Norman Y. Yao	An efficiently-verifiable test of quantum advantage
A.2.6	Hamid Tebyanian, Marco Avesani, Giuseppe Vallone, Paolo Villaresi	Semi-Device-Independent Quantum Random Number Generator Based on Energy Bound
A.2.7	Hayata Yamasaki, Sathyawageeswar Subramanian, Sho Sonoda, Masato Koashi	Learning with Optimized Random Features: Exponential Speedup by Quantum Machine Learning without Sparsity and Low-Rank Assumptions
A.2.8	Yuuya Yoshida, Hayato Arai, Masahito Hayashi	Perfect Discrimination in Approximate Quantum Theory of General Probabilistic Theories
A.2.9	Hlér Kristjánsson, Wenxu Mao, Giulio Chiribella	Single-particle communication through correlated noise
A.2.10	Hyejung Hailey Jee, Carlo Sparaciari, Omar Fawzi, Mario Berta	Characterising quantum correlations of fixed dimension
A.2.11	Irene López Gutiérrez, Felix Dietrich, Christian B. Mendl	Quantum System Identification
A.2.12	James Chen, Chinmay Nirkhe, Natalie Parham, Sahil Patel	Improved spatial overhead for 2D fault-tolerance
A.2.13	Jemma Bennett, Tom O'Leary, Mia West, Nicholas Chancellor, Viv Kendon	Error suppression in continuous-time quantum computing
A.2.14	Johannes Bausch	Recurrent Quantum Neural Networks
A.2.15	John Bostanci, Aleksander Kubica	The Complexity of Disjointness

Room A.3

A.3.1	Masahito Hayashi, Kun Fang, Kun Wang	Finite Block Length Analysis on Quantum Coherence Distillation and Incoherent Randomness
A.3.2	Lane G. Gunderman	Local-dimension-invariant qudit stabilizer codes
A.3.3	Lucas T. Brady, Chris Baldwin, Aniruddha Bapat, Yaroslav Kharkov, Alexey V. Gorshkov	Optimal Protocols in Quantum Annealing and QAOA Problems
A.3.4	Marco Cerezo, Kunal Sharma, Akira Sone Tyler Volkoff, Lukasz Cincio, Patrick Coles	Barren Plateaus and Trainability in Quantum Neural Networks
A.3.5	Mark Steudtner, Stephanie Wehner	Estimating exact energies in quantum simulation without Toffoli gates
A.3.6	Maurice Weber, Nana Liu, Bo Li, Ce Zhang, Zhikuan Zhao	Optimal Provable Robustness of Quantum Classification via Quantum Hypothesis Testing
A.3.7	Mohsen Bagherimehrab, Yuval R. Sanders, Dominic W. Berry, Gavin K. Brennen, Barry C. Sanders	Quasilinear quantum algorithm for generating the ground state of free quantum field theories
A.3.8	Nico Bosshard, Esther Hänggi, Jörg Hofstetter, Roland Christen	Fast Privacy Amplification on GPUs
A.3.9	Nikola Andrejić, Ravi Kunjwal	Joint measurability structures realizable with qubit measurements: incompatibility via marginal surgery
A.3.10	Paul Webster, Michael Vasmer, Thomas R. Scruby, Stephen D. Bartlett	Universal Fault-Tolerant Quantum Computing with Stabiliser Codes
A.3.11	Qi-Ming Chen, Frank Deppe, Re-Bing Wu, Luyan Sun, Yu-xi Liu, Yuki Nojiri, Stefan Pogorzalek, Michael Renger, Matti Partanen, Kirill G. Fedorov, Achim Marx, Rudolf Gross	Quantum Fourier Transform in Oscillating Modes
A.3.13	Riley W. Chien, James D. Whitfield	Custom fermionic codes for quantum simulation
A.3.14	Ruchi Saxena, Eytan Grosfeld, Sebastian de Graaf, Tobias Linderstorm, Floriana Lombardi, Eran Ginossar	Quantum dot model in topological insulator nanowire
A.3.15	Rui Chao, Michael E. Beverland, Nicolas Delfosse, Jeongwan Haah	Optimization of the surface code design for Majorana-based qubits

Room A.4

A.4.1	Rui Chao, Michael E. Beverland, Nicolas Delfosse, Jeongwan Haah	Optimization of the surface code design for Majorana-based qubits
A.4.2	Salvatore Tirone, Maddalena Ghio, Giulia Livieri, Vittorio Giovannetti, Stefano Marmi	Kelly Betting with Quantum Payoff: a continuous variable approach
A.4.3	Shilin Huang, Kenneth R. Brown	Between Shor and Steane: A unifying construction for measuring error syndromes
A.4.4	Sijia Gao, Fergus Hayes, Dr. Sarah Croke, Dr. John Veitch, Dr. Christopher Messenger	Quantum Matched Filtering for Gravitational Wave Astronomy
A.4.5	Stephen Piddock	Quantum walk search algorithms and effective resistance
A.4.6	Theerapat Tansuwannont, Debbie Leung	Fault-tolerant quantum error correction using error weight parities
A.4.7	Thomas E. Baker	Continued fraction Green's functions, density functionals, and Kohn-Sham potentials from a quantum computer
A.4.8	Tian Zhang, Oscar Dahlsten, Vlatko Vedral	Quantum Correlations in Time
A.4.9	Tom Achache, Lior Horesh, John Smolin	Denosing quantum states with Quantum Autoencoders - Theory and Applications
A.4.10	Vikash Mittal, Aswathy Raj, Sanjib Dey, Sandeep K. Goyal	Persistence of Topological Phases in Non-Hermitian Quantum Walks
A.4.11	Yannick Deville, Alain Deville	Single-preparation unsupervised quantum process tomography: concepts and application to the qubit pair with exchange coupling
A.4.12	Rolando D. Somma, Yigit Subasi	Quantum state verification in the linear systems problem
A.4.13	Yuxiang Yang, Renato Renner	Ultimate limit on time signal generation
A.4.14	Cristina Cirstoiu, Zoe Holmes, Joseph Iosue, Lukasz Cincio, Patrick Coles, Benjamin Commeau, Joseph Gibbs, Kaitlin Gili, Andrew Sornborger	Variational Fast Forwarding for Quantum Simulation Beyond the Coherence Time

Tuesday – Poster Session B

Room B.1

B.1.1	Abhijeet Alase, Robert R. Nerem, Mohsen Bagherimehrab, Peter Høyer, Barry C. Sanders	Conditions for Efficient Quantum Computation of Expectation Values from a System of Linear Equations
B.1.2	Ämin Baumeler, Amin Shiraz Gilani, Jibran Rashid	Unlimited Non-Causal Correlations And Their Relation To Non-Locality
B.1.3	Andrei Tanasescu, Valentina-Florentina Iliescu, Pantelimon George Popescu	Optimal entanglement-assisted almost-random access codes
B.1.4	Augustin Vanrietvelde, Hlér Kristjánsson, Jonathan Barrett	Routed quantum circuits
B.1.5	Bo Yang, Rudy Raymond, Hiroshi Imai, Hyungseok Chang, Hidefumi Hiraishi	Testing Scalable Bell Inequalities for Quantum Graph States on IBM Quantum Devices
B.1.6	Borja Requena, Gorka Muñoz-Gil, Maciej Lewenstein, Vedran Dunjko, Jordi Tura	Certificates of many-body quantum properties assisted by machine learning
B.1.7	Brian Coyle, Mina Doosti, Niraj Kumar, Elham Kashefi	Variational Quantum Cloning: Improving Practicality for Quantum Cryptanalysis
B.1.8	Chandan Kumar, Arvind	Estimation of Wigner distribution of Gaussian states: A comparative study
B.1.9	Chi-Fang Chen, Hsin-Yuan Huang, Richard Kueng, Joel A. Tropp.	Quantum simulation via randomized product formulas: A concentration analysis
B.1.10	Cristina Cirstoiu, David Jennings, Kamil Korzekwa	Robustness of Noether’s Principle: Maximal Disconnects between Conservation Laws and Symmetries in Quantum Theory
B.1.11	Daniel Uzcátegui Contreras, Gabriel Senno, Dardo Goyeneche	An algorithm to study the Quantum Marginal Problem
B.1.12	Elham Kashefi, Dominik Leichtle, Luka Music, Harold Ollivier	Securing Quantum Computations in the NISQ Era
B.1.13	Kamil Khadiev, Vladislav Remidovskii	Algorithms for Constructing Text from Dictionary Problem
B.1.14	Federico Centrone, Niraj Kumar, Eleni Diamanti, Iordanis Kerenidis	Experimental demonstration of quantum advantage for NP verification
B.1.15	Frederik Hahn, Jarn de Jong, Anna Pappa	Anonymous Quantum Conference Key Agreement

Room B.2

B.2.1	Fumiyoshi Kobayashi, Kosuke Mitarai, Keisuke Fujii	Parent Hamiltonian as a benchmark problem for variational quantum eigensolvers
B.2.2	Haonan Zhang	Equality conditions of data processing inequality for alpha-z Rényi relative entropies
B.2.3	Harshank Shrotriya, Kishor Bharti, Leong-Chuan Kwek	Self Testing of All Pure Bipartite Entangled States via Quantum Steering
B.2.4	Backens, Miller-Bakewell, de Felice, Lobski, van de Wetering	Ancilla-free circuits from MBQC patterns with extended gflow
B.2.5	Hyukjoon Kwon, Alexander Paige, M. S. Kim	General Conditions on the Rényi Entanglement Entropy Distribution under Stochastic Local Actions
B.2.6	Joseph Bowles, Flavien Hirsch, Daniel Cavalcanti	Activation of Bell nonlocality via broadcasting
B.2.7	Karl Mayer	Mirror benchmarking system level performance of quantum computers
B.2.8	Kohdai Kuroiwa; Hayata Yamasaki	General Quantum Resource Theories: Distillation, Formation and Consistent Resource Measures
B.2.9	Koichi Miyamoto, Kazuya Kaneko, Naoyuki Takeda, Kazuyoshi Yoshino	Quantum Pricing with a Smile: Implementation of Local Volatility Model on Quantum Computer
B.2.10	Kosuke Mitarai, Yasunari Suzuki, Wataru Mizukami, Yuya O. Nakagawa, Keisuke Fujii	Quadratic Clifford expansion for efficient benchmarking and initialization of variational quantum algorithms
B.2.11	Kun Wang, Masahito Hayashi	Permutation Enhances Classical Communication Assisted by Entangled States
B.2.12	Salman Beigi, Leila Taghavi, Artin Tajdini	Time and Query Optimal Quantum Algorithms Based on Decision Trees
B.2.13	Kamil Khadiev, Liliia Safina	The Quantum Version Of Random Forest Model For Binary Classification Problem
B.2.14	Ludmila Viotti	Enhanced decoherence for a neutral particle sliding on vacuum
B.2.15	Carlos Ortiz Marrero, Maria Kieferova, Nathan Wiebe	Entanglement Induced Barren Plateaus

Room B.3

B.3.1	Masahito Hayashi, Ning Cai	Universal classical-quantum multiple access channel coding and classical-quantum compound multiple access channel coding
B.3.2	Masoud Gharahi, Stefano Mancini, Giorgio Ottaviani	Mendeleev Table of Multiqubit Entanglement
B.3.3	Matthias Caro, Benedikt Grswald	Necessary Criteria for Markovian Divisibility of Linear Maps
B.3.4	Max Rossmannek, Panagiotis Kl. Barkoutsos, Pauline J. Ollitrault, Ivano Tavernelli	Quantum HF/DFT-Embedding for Electronic Structure Calculations
B.3.5	Bar Alon, Hao Chung, Kai-Min Chung, Mi-Ying Huang, Yi Lee, Yu-Ching Shen	Round Efficient Secure Multiparty Quantum Computation with Identifiable Abort
B.3.6	Naixu Guo, Kosuke Mitarai, Keisuke Fujii	Nonlinear transformation of complex amplitudes via quantum singular value transformation
B.3.7	Adam Callison, Max Festenstein, Jie Chen, Laurentiu Nita, Viv Kendon, Nicholas Chancellor	Continuous time quantum computing beyond adiabatic: quantum walks and fast quenches
B.3.8	Paula I. Villar	Towards detecting traces of non contact quantum friction in the corrections of the geometric phase
B.3.9	Péter Vrana	A family of additive multipartite entanglement measures
B.3.10	Qingxiuxiong Dong, Marco Túlio Quintino, Akihito Soeda, Mio Muraio	Success-or-draw: A strategy allowing repeat-until-success in quantum computation
B.3.11	Robbie King, Sergii Strelchuk	Stoquastic ground states are classical thermal distributions
B.3.12	Ryuji Takagi	Optimal resource cost for error mitigation
B.3.13	Sami Boulebnane	Improving the Quantum Approximation Optimization Algorithm with postselection
B.3.14	Samson Wang, Enrico Fontana, M. Cerezo, Kunal Sharma, Akira Sone, Lukasz Cincio, Patrick Coles	Noise Induced Barren Plateaus in Variational Quantum Algorithms
B.3.15	Sayantana Pramanik, M Girish Chandra	Towards Quantum Assisted Quadratic Unconstrained D-ary Optimization

Room B.4

B.4.1	Sean A. Adamson, Petros Wallden	Quantum Magic Rectangles: Characterisation and Application to Certified Randomness Expansion
B.4.2	P. Alikhani, N. Brunner, C. Crepeau, S. Designolle, R. Houlmann, W. Shi, H. Zbinden	Experimental relativistic zero-knowledge proofs
B.4.3	Senrui Chen, Wenjun Yu, Pei Zeng, Steven T. Flammia	Robust shadow estimation
B.4.4	Seunghoan Song, Masahito Hayashi	Capacity of Quantum Private Information Retrieval with Colluding Servers
B.4.5	Anurag Anshu, Shima Bab Hadiashar, Rahul Jain, Ashwin Nayak, Dave Touchette	Quantum State Redistribution and Quantum Markov Chains
B.4.6	Shraddha Singh, Shruti Puri	Magic State Injection for Surface Codes with Biased-Noise Qubits
B.4.7	Slimane Thabet, Jean-Francois Hullo	Laplacian Eigenmaps with variational circuits: a quantum embedding of graph data
B.4.8	Stephen DiAdamo, Janis Nötzel	Entanglement-Assisted Data Transmission with Finite Length Entanglement Buffers
B.4.9	Stephen Piddock, Johannes Bausch	Translationally-Invariant Universal Hamiltonians
B.4.10	Sujan Vijayaraj, S Balakrishnan, K Senthilnathan	Direct Communication Using Non-maximally Entangled States
B.4.11	Tom Farshi, Daniele Toniolo, Carlos E. González-Guillén , Álvaro M. Alhambra, Lluís Masanes	Time-periodic dynamics generates pseudo-random unitaries
B.4.12	Yuxiang Yang, Yin Mo, Joseph M. Renes, Giulio Chiribella, Mischa P. Woods	Covariant Quantum Error Correcting Codes via Reference Frames
B.4.13	Yu Cai, Baichu Yu, Pooja Jayachandran, Nicolas Brunner, Valerio Scarani, Jean-Daniel Bancal	Entanglement for any definition of two subsystems
B.4.14	Yujie Liu, Adam Smith, Kirill Shtengel, Frank Pollmann	String-net Models on a Quantum Computer
B.4.15	Jonathan Oppenheim, Carlo Sparaciari, Barbara Šoda, Zachary Weller-Davies	Advances in Post-Quantum Gravity

Wednesday – Poster Session C

Room C.1

C.1.1	Adam Callison , Max Festenstein, Jie Chen, Laurentiu Nita , Florian Mintert, Viv Kendon, Nicholas Chancellor	An energetic perspective on rapid quenches in quantum annealing
C.1.2	Aditya Nema, Pranab Sen	Exponential measure concentration for non catalytic decoupling via approximate unitary designs
C.1.3	Sergey Bravyi, Alexander Kliesch, Robert Koenig, Eugene Tang	Hybrid quantum-classical algorithms for approximate graph coloring
C.1.4	Alexander Miessen, Pauline Ollitrault, Ivano Tavernelli	Variational Quantum Algorithms for Real Space Wave Packet Dynamics
C.1.5	Michele Ciampi, Alexandru Cojocaru, Elham Kashefi, Atul Mantri	Secure Quantum Two-Party Computation: Impossibility and Constructions
C.1.6	Ali Hamed Moosavian, Seyed Sajad Kahani, Salman Beigi	Limits of Short-Time Quantum Annealing
C.1.7	A. Bauer, C. Wille, J. Eisert	A unified diagrammatic approach to topological fixed-point models
C.1.8	Andreas Bluhm, Anna Jenčová, Ion Nechita	Incompatibility in general probabilistic theories, generalized spectrahedra, and tensor norms
C.1.9	Angus Lowe, Max Hunter Gordon, Piotr Czarnik, Andrew Arrasmith, Patrick Coles, Lukasz Cincio	Unified approach to data-driven quantum error mitigation
C.1.10	Benjamin Schiffer, Jordi Tura, J. Ignacio Cirac	Faster adiabatic ground state preparation with few measurements
C.1.11	Jonathan Oppenheim, Carlo Sparaciari, Barbara Soda, Zachary Weller-Davies	Objective trajectories in hybrid classical-quantum dynamics
C.1.12	Carsten Blank, Daniel Kyungdeock Park, Francesco Petruccione	Quantum-enhanced analysis of discrete stochastic processes
C.1.13	Cédric Arhancet	Quantum information via quantum groups
C.1.14	Changpeng Shao, Jin-Peng Liu	Quantum algorithms for eigenvalue problems
C.1.15	Chi-Fang Chen, Kohtaro Kato, Fernando G.S.L Brandao	Matrix Product Density Operators: When do they have a local parent Hamiltonian?

Room C.2

C.2.1	Chris N. Self, Kiran E. Khosla, Alistair W. R. Smith, Frederic Sauvage, Peter D. Haynes, Johannes Knolle, Florian Mintert, M. S. Kim	Efficient use of current quantum hardware by parallelising variational quantum tasks
C.2.2	Daniel Burgarth, Paolo Facchi, Saverio Pascazio, Hiromichi Nakazato, Kazuya Yuasa	KAM-Stability for Conserved Quantities in Finite-Dimensional Quantum Systems
C.2.3	Christian Badertscher, Alexandru Cojocaru, Léo Colisson, Elham Kashefi, Dominik Leichtle, Atul Mantri, Petros Wallden	Security Limitations of Classical-Client Delegated Quantum Computing
C.2.4	Esther Cruz-Rico, Flavio Baccari, Jordi Tura, Norbert Schuch, Ignacio Cirac	Efficient preparation of a family of ground states of local Hamiltonians and their verification properties
C.2.5	Georgios Styliaris, Paolo Zanardi	Extending Noether's Theorem in Markovian Quantum Dynamics
C.2.6	Gregory A. L. White, Charles D. Hill, Felix A. Pollock, Lloyd C. L. Hollenberg, Kavan Modi	Demonstration of non-Markovian process characterisation and control on a quantum processor
C.2.7	Hao Tang, Anurag Pal, Tian-Yu Wang, Lufeng Qiao, Jun Gao, Xian-Min Jin	Quantum Computation for Pricing the Collateralized Debt Obligations
C.2.8	Harish J. Vallury, Michael A. Jones, Charles D. Hill, Lloyd C. L. Hollenberg	Quantum computed moments correction to variational estimates
C.2.9	Hyejung Hailey Jee, Carlo Sparaciari, Mario Berta	Resource distillations in convex Gaussian resource theories
C.2.10	Igor Sokolov, Panagiotis Barkoutsos, Lukas Moeller, Philippe Suchsland, Guglielmo Mazzola, Ivano Tavernelli	Microcanonical and finite temperature ab initio molecular dynamics simulations on quantum computers
C.2.11	Ikko Hamamura, Takashi Imamichi	Efficient evaluation of quantum observables using entangled measurements
C.2.12	Isaac H. Kim	Entropy scaling law and the quantum (and classical) marginal problem
C.2.13	James R. Seddon, Bartosz Regula, Hakop Pashayan, Yingkai Ouyang, Earl T. Campbell	Quantifying quantum speedups: improved classical simulation from tighter magic monotones
C.2.14	James Watson, Johannes Bausch, Sevag Gharibian	The Complexity of Translationally Invariant Problems beyond Ground State Energies
C.2.15	John Golden, Andreas Bärttschi, Daniel O'Malley, Stephan Eidenbenz	QAOA-based Fair Sampling on NISQ Devices

Room C.3

C.3.1	Joseph Vovrosh, Kiran E. Khosla, Sean Greenaway, Chis Self, M.S. Kim, Johannes Knolle	Confinement and Entanglement Dynamics on a Digital Quantum Computer
C.3.2	Jun-Yi Wu, Mio Murao	Complementary properties and entanglement detection in boson sampling systems
C.3.3	Jyotirmoy Basak, Kaushik Chakraborty	Fully Device Independent Quantum Private Query
C.3.4	Hachiro Fujita	A Heuristic Approach to the Dihedral Hidden Subgroup Problem
C.3.5	Marco Fanizza, Farzad Kianvash, Xin Wang, Vittorio Giovannetti	Fundamental limits for quantum communication via flagged extensions
C.3.6	Marco Fellous-Asiani, Jing Hao Chai, Robert S. Whitney, Alexia Auffeves, Hui Khoon Ng	Limitations in quantum computing from resource constraints
C.3.7	Margarita Veshchezerova, Emmanuel Jeandel, Marc Porcheron, Simon Perdrix	Solving an energy management problem with QAOA
C.3.8	Teiko Heinosaari, Maria Anastasia Jivulescu, Ion Nechita	Structural Properties of Quantum Incompatibility
C.3.9	Michael Zurel, Cihan Okay, Robert Raussendorf	Hidden Variable Model for Universal Quantum Computation with Magic States on Qubits
C.3.10	Nikolajs Nahimovs, Raqueline Santos	Lackadaisical quantum walks on 2D grids with multiple marked vertices
C.3.11	Puya Mirkarimi, Adam Callison, Lucy Vost, Nicholas Chancellor, Viv Kendon	Comparing Quantum and Classical Algorithms for MAX 2-SAT
C.3.12	Rodrigo Martínez-Peña, Gian Luca Giorgi, Johannes Nokkala, Miguel C. Soriano, Roberta Zambrini	Dynamical phase transitions in quantum reservoir computing
C.3.13	Hao Tang, Ruoxi Shi, Tian-Shen He, Yan-Yan Zhu, Tian-Yu Wang, Marcus Lee, Xian-Min Jin	TensorFlow solver for quantum PageRank in large-scale networks
C.3.14	Ryan McGaha, George Androulakis	Some Remarks On The Entanglement Number
C.3.15	Ryotaro Suzuki, Kosuke Mitarai, Keisuke Fujii	Computational power of dual-unitary quantum circuits

Room C.4

C.4.1	Hun Hee Lee, Sang-Gyun Youn	Quantum channels with (quantum) group symmetry
C.4.2	Noel Anderson, Jay-U Chung, Shelby Kimmel	Leveraging Unknown Structure in Quantum Query Algorithms
C.4.3	Shigeo Hakkaku, Keisuke Fujii	Comparative study for sampling-based simulation costs of noisy quantum circuits
C.4.4	Sima Bahrani, Chinte Liao, Elham Kashefi	Benchmarking of Quantum Protocols using NetSquid
C.4.5	Soumik Ghosh, John Watrous	Complexity limitations on one-turn quantum refereed games
C.4.6	Stephen DiAdamo, Marco Ghibaudi, James Cruise	Distributed Quantum Computing and Network Control for Accelerated VQE
C.4.7	Tamás Kriváchy, Yu Cai, Joseph Bowles, Daniel Cavalcanti, Nicolas Brunner	Fast semidefinite programming with feedforward neural networks
C.4.8	Utku Birkan, Cem Nurlu, Viktor Olejar, Ozlem Salehi, Abuzer Yakaryilmaz	Implementing quantum finite automata algorithms on noisy devices
C.4.9	Viv Kendon	Collaborative Computational Project - Quantum Computing
C.4.10	Wataru Yokojima, Marco Tú lio Quintino, Akihito Soeda, Mio Mura0	Consequences of preserving reversibility in quantum superchannels
C.4.11	Robin Harper, Wenjun Yu, Steven T. Flammia	Fast Estimation of Sparse Quantum Noise
C.4.12	Yasuhiro Takahashi, Yuki Takeuchi, Seiichiro Tani	Classically Simulating Quantum Circuits with Local Depolarizing Noise
C.4.13	Yasunari Suzuki, Suguru Endo, Keisuke Fujii, Yuuki Tokunaga	Quantum error mitigation for fault-tolerant quantum computing
C.4.14	Chien-Ming Lin, Yu-Ming Hsu, Yen-Huan Li	An Online Algorithm for Maximum-Likelihood Quantum State Tomography
C.4.15	Christopher Um	Discrete Time Multi-particle Grover Search

Thursday – Poster Session D

Room D.1

D.1.1	Simon Apers, András Gilyén, Stacey Jeffery	A Unified Framework for Quantum Walk Search
D.1.2	Arjan Cornelissen, Johannes Bausch, András Gilyén	Scalable Benchmarks for Gate-Based Quantum Computers
D.1.3	Benjamin Lovitz, Nathaniel Johnston	Entangled subspaces and generic local state discrimination with pre-shared entanglement
D.1.4	Christopher David White, ChunJun Cao, Brian Swingle	Conformal Field Theories are Magical
D.1.5	Alonso Botero, Matthias Christandl, Cole Franks, Peter Vrana, Michael Walter	Large deviation principle for quantum marginal and moment map tomography
D.1.6	Daniel Chen, Yekun Xu, Betis Baheri, Samuel A. Stein, Chuan Bi, Ying Mao, Qiang Guan, Shuai Xu	Quantum-Inspired Classical Algorithm for Slow Feature Analysis
D.1.7	Felix Huber	Positive maps and trace polynomials from the symmetric group
D.1.8	Ge Bai, Ya-Dong Wu, Yan Zhu, Masahito Hayashi, Giulio Chiribella	Efficient Algorithms for Quantum Causal Discovery
D.1.9	Gregory Rosenthal	Bounds on the QAC ⁰ Complexity of Approximating Parity
D.1.10	Guoqing Wang, Yi-Xiang Liu, Paola Cappellaro	Quantum information applications of quantum mode control under concatenated continuous driving
D.1.11	Kunal Sharma, Marco Cerezo, Zoe Holmes, Lukasz Cincio, Andrew Sornborger, Patrick Coles	Reformulation of the No-Free-Lunch Theorem for Entangled Data Sets
D.1.12	Itay Hen, Amir Kalev	Quantum algorithm for simulating Hamiltonian dynamics with an off-diagonal series expansion
D.1.13	Jackson Morris, Fang Song	Simple Vertex Coloring in the Quantum Query Model
D.1.14	Jacob L. Beckey, Akira Sone, Marco Cerezo, Patrick J. Coles	Variational Quantum Algorithm for Quantum Sensor Evaluation
D.1.15	Jakub Czartowski, Karol Życzkowski	Bipartite quantum measurements with optimal single-sided distinguishability

Room D.2

D.2.1	Dong An, Noah Linden, Jin-Peng Liu, Ashley Montanaro, Changpeng Shao, Jiasu Wang	Quantum-accelerated multilevel Monte Carlo methods for stochastic differential equations in mathematical finance
D.2.2	E. T. Khabiboulline, J. S. Sandhu, M. U. Gambetta, M. D. Lukin, J. Borregaard	Efficient Quantum Voting with Information-Theoretic Security
D.2.3	Lukasz Cincio, Kenneth Rudinger, Mohan Sarovar, Patrick Coles	Machine learning of noise-resilient quantum circuits
D.2.4	Madhav Krishnan Vijayan, Eric Chitambar, Min-Hsiu Hsieh	Simple bounds for one-shot pure-state distillation in general resource theories
D.2.5	Michele Dall'Arno, Francesco Buscemi, Alessandro Bisio, Alessandro Tosini, Asaph Ho, Valerio Scarani	Bootstrapping quantum tomography by data-driven inference
D.2.6	Minh Tran, Yuan Su, Daniel Carney, Jacob Taylor	Faster Digital Quantum Simulation by Symmetry Protection
D.2.7	Nicolas Del Grosso, Fernando Lombardo, Paula Villar	Entanglement degradation of cavity modes due to the dynamical Casimir effect
D.2.8	Nicolas Sawaya, Francesco Paesani, Daniel Tabor	Algorithms for molecular vibrational properties, with resource comparisons to electronic structure
D.2.9	Paul K. Fährmann, Mark Steudtner, Richard Kueng, Mária Kieferová, Jens Eisert	Randomizing multi-product formulas for improved Hamiltonian simulation
D.2.10	Prithviraj Prabhu, Ben Reichardt	Stabilizer measurement tolerating one fault, with logarithmic overhead
D.2.11	Jingzhen Hu, Qingzhong Liang, Narayanan Rengaswamy, Robert Calderbank	Stabilizer Codes that are Oblivious to Coherent Noise
D.2.12	Ramgopal Venkateswaran, Ryan O'Donnell	Quantum Approximate Counting with Nonadaptive Grover Iterations
D.2.13	Richard D.P. East, John van de Wetering, Nick Chancellor, Adolfo G. Grushin	AKLT-states as ZX-diagrams: diagrammatic reasoning for quantum states
D.2.14	Ryan Shaffer	STOQ: A stochastic search protocol for approximate unitary compilation
D.2.15	Sagnik Chatterjee, Debajyoti Bera	Applying the Quantum Alternating Operator Ansatz to the Graph Matching Problem

Room D.3

D.3.1	Sayantana Chakraborty, Aditya Nema, Pranab Sen	Unassisted Transmission of Quantum Information for the QMAC
D.3.2	Shiv Akshar Yadavalli, Ravi Kunjwal	Contextuality in Entanglement-assisted One-shot Classical Communication
D.3.3	Spiro Gicev, Muhammad Usman, Lloyd Hollenberg	Artificial Neural Network Decoding for the Surface Code
D.3.4	Siddhartha Das, Stefan Bäuml, Marek Winzewski, Karol Horodecki	Universal limitations on quantum key distribution over a network
D.3.5	Steph Foulds, Viv Kendon, Tim Spiller	The controlled SWAP test for determining quantum entanglement
D.3.6	Adam Bouland, Charlie Carlson, Alex Kolla, Steven Kordonow	Quantum vs Classical Local Algorithms for Local MaxCut
D.3.7	Harry Buhrman, Subhasree Patro, Florian Speelman	A Framework of Quantum Strong Exponential-Time Hypotheses
D.3.8	Nai-Hui Chia, Kai-Min Chung, Takashi Yamakawa	A Black-Box Approach to Post-Quantum Zero-Knowledge in Constant Rounds
D.3.9	Tamara Kohler, Stephen Piddock, Johannes Bausch, Toby Cubitt	General conditions for universality of quantum Hamiltonians
D.3.10	Thomas Schuster, Bryce Kobrin, Ping Gao, Iris Cong, Emil Khabiboulline, Norbert M. Linke, Mikhail D. Lukin, Chris Monroe, Beni Yoshida, Norman Y. Yao	Many-body quantum teleportation via operator spreading in the traversable wormhole protocol
D.3.11	Uzi Pereg, Christian Deppe, Holger Boche	Quantum Channel State Masking
D.3.12	Victor V. Albert, David Aasen, Wenqing Xu, Wenjie Ji, John Preskill, Jason Alicea	Quantum doubles in one dimension
D.3.13	William Huggins, Sam McArdle, Thomas E. O'Brien, Joonho Lee, Nicholas C. Rubin, Sergio Boixo, K. Birgitta Whaley, Ryan Babbush, Jarrod R. McClean	Virtual Distillation for Quantum Error Mitigation
D.3.14	Xavier Gitiiaux, Ian Morris, Maria Emelianenko, Mingzhen Tian	SWAP Test for an Arbitrary Number of Quantum States
D.3.15	Xinyu Tan, Narayanan Rengaswamy, Robert Calderbank	Approximate Unitary 3-Designs from Transvection Markov Chains

Room D.4

D.4.1	Kai-Min Chung, Serge Fehr, Yu-Hsuan Huang, Tai-Ning Liao	On the Compressed-Oracle Technique, and Post-Quantum Security of Proofs of Sequential Work
D.4.2	Zane Rossi, Isaac Chuang	Quantum Hypothesis Testing with Group Structure
D.4.3	Peter Høyer, Zhan Yu	Analysis of Lackadaisical Quantum Walks
D.4.4	Giulio Chiribella, Zixuan Liu	The quantum time flip
D.4.5	Zoe Holmes, Andrew Arrasmith, Bin Yan, Patrick J. Coles, Andreas Albrecht, Andrew Sornborger	Barren plateaus preclude learning scramblers
D.4.6	Jessica Bavaresco, Mio Murao, Marco Túlio Quintino	Strict hierarchy between parallel, sequential, and indefinite-causal-order strategies for channel discrimination
D.4.7	Ellen Derbyshire, Rawad Mezher, Theodoros Kapourniotis, Elham Kashefi	Randomized Benchmarking: Stabilizer Verification and Gate Synthesis
D.4.8	Omar Fawzi, Lucien Grouès, Anthony Leverrier	Linear programming decoder for hypergraph product quantum codes
D.4.9	Dripto M. Debroy, Kenneth R. Brown	Extended Flag Gadgets for Near-Term Error Detection
D.4.10	Patryk Lipka-Bartosik, Paul Skrzypczyk	All states are universal catalysts for majorisation-based quantum resource theories
D.4.11	Jonathan Shi	Multi-qubit ancillas for high-rate error correction