

## QCE23 Poster Presentation Schedule

The QCE23 Reception on Monday evening will kick off the QCE23 Exhibits and Posters presentations — Sep 18 @ 18:30-20:30. The Exhibits and Posters area will be open Tuesday, Wednesday, and Thursday from 9:30 to 17:00. Posters presentations are scheduled during the breaks at 9:30-10:00, 11:30-13:00, 14:30-15:00, and 16:30-17:00. Each poster is allocated three time slots: Monday evening and two slots Tue-Thu as outlined in the schedule below.

EC ID	Tag	Time 1	Time 2	Time 3	Authors	Title
61	QML1	Mon-18:30	Tue-16:30	Wed-11:30	Waseem Ahmad, Kalpesh Prajapati and Kameshwar Rao Jv	Hybrid Variational Quantum Circuit with Transformer for Classifying Medical Conditions
567	QML1	Mon-18:30	Tue-16:30	Wed-11:30	Taposh Roy, Reek Majumdar, Bhavika Bhalgamiya and Biswaraj Baral	Evaluating Quantum Machine Learning Approaches for Histopathological Cancer Detection: Classical, Hybrid Simulation, and IBM Quantum Computing
574	QTEM1	Mon-18:30	Tue-11:30	Wed-09:30	Sean Crowe, Benjamin Taylor, Nicholas Ferrante, Brad Liu and Susan Berggren	Analysis of Superconducting Qubit Layouts Using InductEx
578	QEC	Mon-18:30	Tue-14:30	Wed-11:30	Maximilian Jakob Heer, Jan-Erik R. Wichmann and Kentaro Sano	Achieving Scalable Quantum Error Correction with Union-Find on Systolic Arrays by using Multi-Context Processing Elements
585	QALG5	Mon-18:30	Tue-14:30	Wed-09:30	Rong-Yang Sun, Tomonori Shirakawa and Seiji Yunoki	Scalable Quantum Simulation for Topological Phases on NISQ Devices
594	QML2	Mon-18:30	Wed-11:30	Thu-16:30	Chen-Yu Liu and Hsi-Sheng Goan	Reinforcement Learning Quantum Local Search
602	QTEM4	Mon-18:30	Tue-11:30	Wed-14:30	Gang Huang, Yilun Xu, Neelay Fruitwala, Abhi Rajagopala, Kasra Nowrouzi, Ravi Naik, David Santiago and Irfan Siddiqi	QubiC 2.0: A Flexible Advanced Full Stack Quantum Bit Control System
606	QEC	Mon-18:30	Tue-14:30	Wed-11:30	Mainak Roy, Jessica John Britto and Victor Onofre	Simulating Open Quantum Systems using Noise Models and NISQ Devices with Quantum Error Mitigation
609	QTEM3	Mon-18:30	Tue-11:30	Thu-14:30	Anjul Loiacono, Alex Tingle, Victor Colussi and Noah Fitch	Oracle: Quantum Matter Services for the Masses
610	QNET	Mon-18:30	Tue-11:30	Thu-09:30	Aniruddha Sen, Kenneth Goodenough and Don Towsley	Multipartite Entanglement in Quantum Networks using Subgraph Complementations
611	QNET	Mon-18:30	Tue-11:30	Thu-09:30	Willers Yang and Patrick Rall	Harnessing the Power of Long-Range Entanglement for Clifford Circuit Synthesis
613	QML1	Mon-18:30	Tue-16:30	Wed-11:30	Ryan Kim	Implementing a Hybrid Quantum-Classical Neural Network by Utilizing a Variational Quantum Circuit for Detection of Dementia
614	QTEM2	Mon-18:30	Tue-11:30	Thu-09:30	Kostiantyn Nechay, Andreas Schramm, Soile Talmila, Pekko Sipilä, Kalle Palomäki and Petteri Uusimaa	Narrow Linewidth External-cavity Semiconductor Laser for Ba+ Quantum Applications
615	QSYS2	Mon-18:30	Tue-16:30	Thu-11:30	I-Tung Chen and Chaman Gupta	Towards Efficient Automatic Oracle Synthesis and Resource Estimation using QDK and QIR
616	QML2	Mon-18:30	Wed-11:30	Thu-16:30	Mingyoung Jeng, Md. Alvir Islam Nobel, Vinayak Jha, David Levy, Dylan Kneidel, Manu Chaudhary, Sm Ishraq Ul Islam and Esam El-Araby	Multidimensional Quantum Convolution with Arbitrary Filtering and Unity Stride
617	QML2	Mon-18:30	Wed-11:30	Thu-16:30	Takao Tomono, Kazuya Tsujimura and Takumi Godo	Quantum Kernels for Difficult Visual Discrimination
618	QSYS2	Mon-18:30	Tue-16:30	Thu-11:30	Esther Villar-Rodriguez, Aitor Gomez-Tejedor and Eneko Osaba	Hybrid Classical-Quantum Computing: Are we Forgetting the Classical Part in the Binomial?
619	QALG2	Mon-18:30	Tue-16:30	Wed-11:30	Stefano Speziali, Andrea Marini, Alessandro Vispa, Federico Bianchi, Massimiliano Proietti, Alberto Garinei, Lorenzo Mattioli, Lorenzo Sani, Emanuele Piccioni and Marcello Marconi	A Novel Approach to Face Early Pandemics using QUBO Models
621	QDC	Mon-18:30	Tue-09:30	Thu-14:30	Waldemir Cambiucci, Regina M. Silveira and Wilson V. Ruggiero	Hypergraphic Partitioning of Quantum Circuits for Distributed Quantum Computing
623	QALG1	Mon-18:30	Wed-14:30	Thu-09:30	Rei Sato, Kazuhiro Saitou, Tetsuro Nikuni and Shohei Watabe	Embedding All Feasible Solutions of Traveling Salesman Problem by Divide-and-Conquer Quantum Search
625	QPH-OPT	Mon-18:30	Tue-14:30	Wed-09:30	Rawad Mezher, Shane Mansfield and Ana Filipa Carvalho	Solving Graph Problems with Single-photons and Linear Optics
626	QML2	Mon-18:30	Wed-11:30	Thu-16:30	Debanjan Konar, Erol Gelenbe, Soham Bhandary, Aditya Das Sarma and Attila Cangi	Random Quantum Neural Networks for Noisy Image Recognition
627	QNET	Mon-18:30	Tue-11:30	Thu-09:30	Annika Daspal	Effect of Reps and entanglement on Performance of Pauli Feature Map

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629	QALG5	Mon-18:30	Tue-14:30	Wed-09:30	Pulak Ranjan Giri, Mori Kurokawa and Kazuhiro Saito	Quantum Negative Sampling Strategy for Knowledge Graph Embedding with Variational Circuit
631	QALG3	Mon-18:30	Tue-09:30	Thu-14:30	Wei-Hao Huang, Hiromichi Matsuyama, Kohji Nishimura and Yu Yamashiro	Quantum Relaxation based Branch-and-Bound Method
633	QALG1	Mon-18:30	Wed-14:30	Thu-09:30	Sebastiano Corli, Daniele Dragoni, Massimiliano Proietti, Massimiliano Dispenza, Carlo Cavazzoni and Enrico Prati	A Max K-Cut Implementation for QAOA in the Measurement based Quantum Computing Formalism
634	QALG5	Mon-18:30	Tue-14:30	Wed-09:30	Naman Jain, Ankit Khandelwal and M Girish Chandra	Efficient and Flexible Annealer-Gate Hybrid Model for Solving Large-Scale Portfolio Optimization
635	QTEM1	Mon-18:30	Tue-11:30	Wed-09:30	Zhen Luo, Ivan Tsitsilin, Christian Schneider, Marco Dietz and Amelie Hagelauer	Extended Approach for Efficient Coupling Strength Determination for Superconducting Qubit
636	QEC	Mon-18:30	Tue-14:30	Wed-11:30	Nick Blunt, György Gehér and Alexandra Moylett	Compiling a Simple Chemistry Application to Quantum Error Correction Primitives
639	QDC	Mon-18:30	Tue-09:30	Thu-14:30	Tommy Nguyen, Yue Shi, Samuel Stein, Tim Stavenger, Marvin Warner, Martin Roetteler, Torsten Hoefer and Ang Li	A Reference Implementation for a Quantum Message Passing Interface
640	QTEM2	Mon-18:30	Tue-11:30	Thu-09:30	Tomasz Przywózki, Paweł Kulik, Mikołaj Sowiński, Grzegorz Kasprawicz, David T. C. Allcock, Christopher Ballance, Sébastien Bourdeauducq, Joe W. Britton, Thomas Harty, Robert Jördens, Marcin Kiepiela, Norman Krackow, David Nadlinger, Daniel Slichter, Filip Świtakowski and Marius Weber	Sinara and ARTIQ: Open-source Ion-trapping Control System
641	QAA	Mon-18:30	Wed-14:30	Thu-11:30	Dong Jun Woun and Prasanna Date	Adiabatic Quantum Support Vector Machines
642	QML2	Mon-18:30	Wed-11:30	Thu-16:30	Dominic Pasquali, Michele Grossi and Sofia Vallecorsa	Classification with Integrated Quantum and Spiking Neural Networks
644	QALG3	Mon-18:30	Tue-09:30	Thu-14:30	Quinn Langfitt, Jose Falla, Ilya Safro and Yuri Alexeev	Parameter Transferability in QAOA under Noisy Conditions
645	QTEM4	Mon-18:30	Tue-11:30	Wed-14:30	Yizhi Shen, Daan Camps, Aaron Szasz, Siva Darbha, Katherine Klymko, David Williams-Young, Norm Tubman and Roel Van Beeumen	Estimating Eigenenergies from Quantum Dynamics: A Unified Noise-Resilient Measurement-Driven Approach
648	QALG2	Mon-18:30	Tue-16:30	Wed-11:30	Bernardo Palma, Laura Gatti and Rafael Sotelo	QUBO Formulation for a Nurse Scheduling Problem: An Application for Sales Force Scheduling
649	QALG5	Mon-18:30	Tue-14:30	Wed-09:30	Blake Burgstahler, Frank Mueller and Scott Pakin	Synthesis of Approximate Parametric Circuits for Variational Quantum Algorithms
651	QALG6	Mon-18:30	Wed-16:30	Thu-11:30	Tomonori Shirakawa and Seiji Yunoki	Approximate State Preparation using Tensor Network Optimization Techniques
653	QTEM4	Mon-18:30	Tue-11:30	Wed-14:30	Ajit Dash, Steve Yianni, Jonathan Yue Huang, Mengke Feng, Fay Hudson, Andre Saraiva, Andrew Dzurak and Tuomo Tantt	Optimization of Silicon MOS Architecture for Self-referenced Quantum Current Standard
654	QML1	Mon-18:30	Tue-16:30	Wed-11:30	Max Cui, Adelina Chau, Michelle Pan, Vaibhav Vaiyakarnam and Larry McMahan	Molecular Geometry Generation Processes through Hybrid Quantum-Classical Generative Adversarial Networks and Python-Based Self-Consistent Field Molecular Calculations
655	QPH-OPT	Mon-18:30	Tue-14:30	Wed-09:30	Naphan Benchasattabuse, Michal Hajdušek and Rodney Van Meter	Protocols for All-photonic Quantum Repeaters
656	QTEM4	Mon-18:30	Tue-11:30	Wed-14:30	Sarah Edwards, Qixuan Lin, Morgan Sherer, Elliott Rosenberg, Jiun-Haw Chu and Arthur Barnard	Modifying Crystal Symmetries via Shear Distortion

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657	QAA	Mon-18:30	Wed-14:30	Thu-11:30	Mohammad Kashfi Haghighi and Nikitas Dimopoulos	Minimum-length Chain Embedding for the Phase Unwrapping Problem on D-Wave's Pegasus Graph
658	QNET	Mon-18:30	Tue-11:30	Thu-09:30	Frederik Lohof, Niclas Götting and Christopher Gies	Leveraging Quantum Dynamics for Physical Computing Applications
659	QSYS3	Mon-18:30	Wed-16:30	Thu-11:30	Takefumi Miyoshi, Keisuke Koike, Shinichi Morisaka, Hidehisa Shiomi, Ryo Matsuda, Kazuhisa Ogawa, Yutaka Tabuchi and Makoto Negoro	A Fully Pipelined Architecture of Quantum-Classical Interface for Realizing Fault-Tolerant Quantum Computer
660	QTEM1	Mon-18:30	Tue-11:30	Wed-09:30	Jun Gu Choi, Mohamed Abdelrahman, Derek Slater, Tom Parker, Philip Krantz, Phil Sohn, Mohamed Awida Hassan and Chris Mueth	QuantumPro: An Integrated Workflow for the Design of Superconducting Qubits using PathWave Advanced Design System (ADS)
661	QML2	Mon-18:30	Wed-11:30	Thu-16:30	Seokhun Jeon, Yunpyo Hong and Byungsoo Kim	A Study on Concentric Feature Embeddings in Variational Multiclass Classification for Small-Scale Quantum Computers
662	QAA	Mon-18:30	Wed-14:30	Thu-11:30	Jargalsaikhan Artag, Moe Shimada and Jun-Ichi Shirakashi	Parallel Quantum Annealing: A Novel Approach to Solving Multiple NP-Hard Problems Concurrently
663	QSYS2	Mon-18:30	Tue-16:30	Thu-11:30	Robert Wille, Lucas Berent, Lukas Burgholzer, Stefan Hillmich, Jagatheesan Kunasaikaran, Kevin Mato, Tom Peham, Nils Quetschlich, Aaron Sander, Ludwig Schmid and Daniel Schönberger	The Munich Quantum Toolkit (MQT)
664	QML3	Mon-18:30	Wed-11:30	Thu-16:30	Vinicius Hernandez and Eliska Greplova	Modeling Neuronal Activity with Quantum Generative Adversarial Networks
665	QALG5	Mon-18:30	Tue-14:30	Wed-09:30	Jean Cazalis, Yahui Chai, Karl Jansen, Stefan Kühn and Tirth Shah	Gaussian Boson Sampling for Binary Optimization
666	QALG3	Mon-18:30	Tue-09:30	Thu-14:30	Vladyslav Los, Mykola Maksymenko, Maciej Koch-Janusz, Yuriy Pryyma and Richard Givhan	Robustness of Quantum Algorithms against Approximate Data Representations
667	QALG4	Mon-18:30	Tue-11:30	Thu-16:30	Declan Millar, Vadim Elisseev, Benjamin Symons, Dilhan Manawadu, Michael Garn, Jason Ledwidge, Animesh Datta, Tom Goffrey and Stefano Mensa	Quantum Algorithm for the Vlasov-Maxwell Equations
668	QML3	Mon-18:30	Wed-11:30	Thu-16:30	Tuan Ngo, Nhan Luu and Truong Thang	An Evaluation of Training Strategies in QuGAN
669	QEC	Mon-18:30	Tue-14:30	Wed-11:30	Beatrice Branchini, Davide Conficconi, Donatella Sciuto and Marco Santambrogio	The Hitchhiker's Guide to FPGA-Accelerated Quantum Error Correction
672	QAA	Mon-18:30	Wed-14:30	Thu-11:30	Chia-Ho Ou, Bo-Yuan Zhu, Zong-Wei Huang, Chih-Yu Chen, Ching-Ray Chang, Wen-Hsi Huang and Wei-Cheng Chen	A Quantum-Inspired Approach to Emergency Patient Allocation Using Digital Annealing
673	QEC	Mon-18:30	Tue-14:30	Wed-11:30	Gyorgy Geher, Ophelia Crawford and Earl Campbell	Tangling Schedules Eases Hardware Connectivity Requirements for Quantum Error Correction
674	QALG6	Mon-18:30	Wed-16:30	Thu-11:30	John Burke, Ciaran McGoldrick and Biswajit Basu	Reduced Gate Count for Quantum State Preparation of 2D Data
675	QSYS2	Mon-18:30	Tue-16:30	Thu-11:30	Sara Ayman Metwalli and Rodney Van Meter	A Categorization of Bugs in Quantum Programs
676	QSYS2	Mon-18:30	Tue-16:30	Thu-11:30	Chia-Ho Ou, Yu-Hong Li, Chih-Yu Chen, Chi-Hsuan Wu, Yu-Chen Tsai, Zhi-You Yan and Ching-Ray Chang	Quantum-Inspired Optimization for Task Scheduling in Software Development Projects
677	QALG3	Mon-18:30	Tue-09:30	Thu-14:30	Andrew Vlastic, Salvatore Certo and Anh Pham	Complement Grover's Search Algorithm: An Amplitude Suppression Implementation
678	QTEM1	Mon-18:30	Tue-11:30	Wed-09:30	Mohamed Ismail Abdelrahman, Jun Gu Choi, Derek Slater, Tom Parker, Philip Krantz, Phil Sohn, Mohamed Awida Hassan and Chris Mueth	Electromagnetic Modeling and Scripted Quantum Parameter Extraction of 3D Superconducting Qubits using PathWave EMPro

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679	QNET	Mon-18:30	Tue-11:30	Thu-09:30	Michael Würth, Florian Bischeltsrieder and Wolfgang Utschick	Quantum Radar with Genuine Tripartite entanglement
680	QEDU	Mon-18:30	Tue-09:30	Wed-16:30	Nils Quetschlich, Lukas Burgholzer and Robert Wille	Supporting End-Users in Realizing Quantum Computing Applications
681	QTEM2	Mon-18:30	Tue-11:30	Thu-09:30	Andrew Van Horn, Hezekiah Gabaldon, Jungsang Kim and Ken Brown	Control Infrastructure for Near-Term Long-Chain QCCD
682	QPH-OPT	Mon-18:30	Tue-14:30	Wed-09:30	Duwon Lee, Yong Kwon, Kanghyun Kim, Jaehyuk Lee and Byung-Soo Choi	A Design of Software Architecture for Validate and Verification of Linear-Optical Quantum Computing Platform
683	QEDU	Mon-18:30	Tue-09:30	Wed-16:30	Serat Saad, Anish Giri, Mubarak Ganiyu, David Nizovsky, David Owens and Mandy Lalrindiki	Developing Workforce in Quantum Industry: The Wond'ry Quantum Studio
684	QTEM2	Mon-18:30	Tue-11:30	Thu-09:30	Tobias Sägesser, Shreyans Jain, Pavel Hrmo, Daniel Kienzler and Jonathan Home	Demonstration of a Micro-fabricated Penning Trap for Quantum Computing
685	QTEM4	Mon-18:30	Tue-11:30	Wed-14:30	Flemming Holtorf, Frank Schäfer, Julian Arnold, Christopher Rackauckas and Alan Edelman	Sum-of-Squares Bounds for Quantum Optimal Control
686	QTEM4	Mon-18:30	Tue-11:30	Wed-14:30	Liu Yu, Alexander C. Frank, Tilman Esslinger, Tobias Donner and Abdulkadir Akin	Laser Frequency Stabilization using a Prescaler and a High-Resolution Frequency to Voltage Converter
687	QML2	Mon-18:30	Wed-11:30	Thu-16:30	Kathleen Hamilton, Mayanka Chandra Shekar, Prasanna Date, In-Saeng Suh, John Gounley, Georgia Tourassi and Dhanvi Bharadwaj	Characterizing Quantum Classifier Utility in Natural Language Processing Workflows
688	QALG3	Mon-18:30	Tue-09:30	Thu-14:30	Karl Mayer and Charlie Baldwin	Estimating Fidelity Lower Bounds of Quantum Subroutines
689	QEDU	Mon-18:30	Tue-09:30	Wed-16:30	Samantha Norrie and Anthony Estey	QNotation: An Interactive Visual Tool to Lower Learning Barriers in Quantum
691	QEC	Mon-18:30	Tue-14:30	Wed-11:30	Kenton Barnes, Tomasz Bialas, Okan Buğdayci, Earl T. Campbell, Neil I. Gillespie, Kausar Johar, Ram Rajan, Adam W. Richardson, Luka Skoric, Canberk Topal, Mark L. Turner and Abbas B. Ziad	A Highly Efficient QEC Decoder Implemented on FPGA and ASIC
692	QSYS2	Mon-18:30	Tue-16:30	Thu-11:30	Sanskriti Joshi, Ethan Hansen and Hannah Rarick	Quantum Resource Estimation of Arithmetic Primitives
693	QPH-OPT	Mon-18:30	Tue-14:30	Wed-09:30	Calum Rose, Natale Pruiti, Daniel Kelly, Marc Sorel, Alessandro Casaburi and Martin Weides	Electro-Optical Control and Readout of Superconducting Devices
694	QTEM4	Mon-18:30	Tue-11:30	Wed-14:30	Efekan Kokcu, Daan Camps, Lindsay Bassman Oftelie, Wibe A. de Jong, Roel Van Beeumen and Alexander F. Kemper	Algebraic Compression of Free Fermionic Quantum Circuits: Particle Creation, Arbitrary Lattices and Controlled Evolution
695	QSYS2	Mon-18:30	Tue-16:30	Thu-11:30	Srikar Chundury, Justin Lietz, Eduardo Antonio Coello Perez, Amir Shehata, In-Saeng Suh and Frank Mueller	A PEPS Plugin for TNQVM
697	QALG6	Mon-18:30	Wed-16:30	Thu-11:30	Ryutaro Nagai and Takao Tomono	Tensor Network-based Continuous Variable Quantum Circuit Optimization for Preparation of GKP State
698	QDC	Mon-18:30	Tue-09:30	Thu-14:30	Kenzie Ellenberger, Dylan Couch, Jeffrey Greer, Noah Gregory, Luis Sanchez, Kaleb Love, Yaroslav Koshka and Samee Khan	Quantum Task Mapping for Distributed Heterogeneous Computing Systems
700	QALG1	Mon-18:30	Wed-14:30	Thu-09:30	Katie Klymko, Daan Camps and Nicolas Sawaya	HamLib: A Library of Hamiltonians for Benchmarking Quantum Qlgorithms and Hardware
701	QNET	Mon-18:30	Tue-11:30	Thu-09:30	Nitish Kumar Panigrahy, Matheus Guedes de Andrade, Shahrooz Pouryousef, Don Towsley and Leandros Tassiulas	Scalable Multipartite entanglement Distribution in Quantum Networks

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702	QSYS3	Mon-18:30	Wed-16:30	Thu-11:30	Shahrooz Pouryousef, Nitish K. Panigrahy, Monimoy Deb Purkayastha, Sabyasachi Mukhopadhyay, Gert Grammel, Domenico Di Mola and Don Towsley	Resource Management in Quantum Virtual Private Networks
703	QML3	Mon-18:30	Wed-11:30	Thu-16:30	Daniel Molina and Kathleen Hamilton	Noise Robustness of Data Re-Uploading Quantum Classifiers
704	QTEM3	Mon-18:30	Tue-11:30	Thu-14:30	Justin Zhang, Anthony Kim and Jeremy Pitcock	Efficient Computation of Causality in Globally-Hyperbolic Spacetimes Using Link Invariants and Relevant Applications to Quantum Computing
705	QTEM3	Mon-18:30	Tue-11:30	Thu-14:30	Yan Wang	Prepare Ground States of Highly Frustrated Magnetic Clusters on Quantum Computers
706	QSYS1	Mon-18:30	Wed-16:30	Thu-11:30	Martin Schulz, Laura Schulz, Martin Ruefenacht and Robert Wille	Towards the Munich Quantum Software Stack: Enabling Efficient Access and Tool Support for Quantum Computers
707	QML3	Mon-18:30	Wed-11:30	Thu-16:30	Shamminuj Aktar, Andreas Bärtzchi, Abdel-Hameed Badawy, Diane Oyen and Stephan Eidenbenz	Predicting Expressibility of Parameterized Quantum Circuits using Graph Neural Network
708	QTEM1	Mon-18:30	Tue-11:30	Wed-09:30	Hans Johnson, Silvia Zorzetti and Jafar Saniie	Improving Signal-to-Noise Ratio (SNR) for Readout Signals Using Adaptive Filters on Reconfigurable Controls Hardware
709	QSYS1	Mon-18:30	Wed-16:30	Thu-11:30	Amr Elsharkawy, Xiao-Ting Michelle To, Philipp Seitz, Yanbin Chen, Yannick Stade, Manuel Geiger, Qunsheng Huang, Xiaorang Guo, Muhammad Arslan Ansari, Martin Ruefenacht, Laura Schulz, Sven Karlsson, Christian B. Mendl, Dieter Kranzlmüller and Martin Schulz	Challenges in HPCQC Integration
710	QALG6	Mon-18:30	Wed-16:30	Thu-11:30	Abhijith Jayakumar, Stefano Chessa, Carleton Coffrin, Andrey Lokhov, Marc Vuffray and Sidhant Misra	General Algorithms for SPAM Noise Characterization
711	QALG1	Mon-18:30	Wed-14:30	Thu-09:30	Bence Bakó, Dániel T. R. Nagy, Péter Hágá, Zsófia Kallus and Zoltán Zimborás	Space-Efficient Embedding of the Clique Cover Problem for Quantum Optimization