

IEEE Quantum Week 2023

Sep 17–22, 2023 in Bellevue, Washington
Hyatt Regency Bellevue on Seattle's Eastside

QCE23 Final Program-at-a-Glance — V137



IEEE International Conference
on Quantum Computing
and Engineering — QCE23



Patrons, Exhibitors & Supporters



QCE23 Program Sunday — Parallel Tracks & Meeting Rooms															
Click on Sessions for Abstracts															
Floor	2nd Floor Hyatt Regency Bellevue											3rd Floor Hyatt Regency Bellevue			
Room	Grand Ballroom	Regency A	Regency B	Regency C	Regency E	Regency F	Regency G	Cedar A	Cedar B	Birch	Balsam	Auditorium	Juniper	Larch	Laurel
Style Capacity	Banquet 1450	Theater 77	Theater 80	Theater 77	Theater 77	Theater 80	Theater 77	Class-Panel 60	Class-Panel 60	Theater 49	Theater 49	Class-Panel 135	Class-Panel 60	Class-Panel 68	Class-Panel 42
9:30-10:00		Break													
10:00-11:30		WKS01 — Advanced Simulations of Quantum Computations — Part 1	WKS03 — Quantum Algorithms for Combinatorial Optimization	WKS04 — Practical Quantum Error Correction and Fault-tolerant Quantum Computing: a Full-stack Approach	WKS05 — Advances in Numerical Quantum Optimal Control and Characterization Methods	TUT04 — Hardware Architecture for Quantum Networks	TUT05 — Quantum Noise Characterization and Mitigation Techniques	QSEEC01 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	QSEEC02 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	TUT29 — Compiling Resource-Efficient Programs with Numerical Instantiation	TUT03 — The QICK: Quantum Instrumentation Control Kit	TUT01 — Introduction to Quantum Computing — Part 1	WKS02 — Demystifying the Quantum Enigmas: A Hands-on Introduction to Quantum Computing	TUT02 — Security of Quantum Computing Systems	WKS06 — Quantum Machine Learning: From Foundations to Applications
11:30-13:00	Lunch														
13:00-14:30		WKS01 — Advanced Simulations of Quantum Computations — Part 1	WKS03 — Quantum Algorithms for Combinatorial Optimization	WKS04 — Practical Quantum Error Correction and Fault-tolerant Quantum Computing: a Full-stack Approach	WKS05 — Advances in Numerical Quantum Optimal Control and Characterization Methods	TUT04 — Hardware Architecture for Quantum Networks	TUT05 — Quantum Noise Characterization and Mitigation Techniques	QSEEC01 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	QSEEC02 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	TUT29 — Compiling Resource-Efficient Programs with Numerical Instantiation	TUT03 — The QICK: Quantum Instrumentation Control Kit	TUT01 — Introduction to Quantum Computing — Part 1	WKS02 — Demystifying the Quantum Enigmas: A Hands-on Introduction to Quantum Computing	TUT02 — Security of Quantum Computing Systems	WKS06 — Quantum Machine Learning: From Foundations to Applications
14:30-15:00		Break													
15:00-16:30		https://qce.quantum.ieee.org/2023/workshops-program/#wks01	WKS03 — Quantum Algorithms for Combinatorial Optimization	WKS04 — Practical Quantum Error Correction and Fault-tolerant Quantum Computing: a Full-stack Approach	WKS05 — Advances in Numerical Quantum Optimal Control and Characterization Methods	No session	No session	QSEEC01 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	QSEEC02 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	No session	No session	No session	WKS02 — Demystifying the Quantum Enigmas: A Hands-on Introduction to Quantum Computing	No session	WKS06 — Quantum Machine Learning: From Foundations to Applications
16:30-18:30								QSEEC01 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	QSEEC02 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters					Meet the Customer & Private Reception 16:30-18:30	

QCE23 Program Monday — Parallel Tracks & Meeting Rooms																		
Click on Sessions for Abstracts																		
MON	2nd Floor Hyatt Regency Bellevue											3rd Floor Hyatt Regency Bellevue						
Floor	1st Floor	Grand Ballroom		Regency A	Regency B	Regency C	Regency E	Regency F	Regency G	Cedar A	Cedar B	Birch	Balsam	Auditorium	Juniper	Larch	Laurel	Cottonwood
Room	Evergreen Ballroom	Banquet 1450	Theater 77	Theater 80	Theater 77	Theater 77	Theater 80	Theater 77	Class-Panel 60	Class-Panel 60	Theater 49	Theater 49	Class-Panel 135	Class-Panel 60	Class-Panel 68	Class-Panel 42	Theater 49	
Style Capacity	Booths Posters																	
8:00-9:30		Keynote David Awschalom, University of Chicago & Q-NEXT																
9:30-10:00		Break							Student Breakfast	Student Breakfast								
10:00-11:30			WKS01 — Advanced Simulations of Quantum Computations — Part 2	WKS10 — Chemical Applications of Quantum Computing	QSEEC03 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	TP-QALG01 — Circuit Optimization - I Paper IDs: 62, 95, 108	TP-QAPP02 — Applications to Life Sciences Paper IDs: 126, 284, 324	TP-QTEM01 — Quantum Controls - I Paper IDs: 315, 321, 438	Mentorship 10: 00-11:00	Mentorship 10: 00-11:00	BOF01 — Exploring the Link Between Quantum Science and AI: Pathways for Collaboration	TUT07 — Algorithmic Approaches for Finding Better QUBO Formulations	TUT01 — Introduction to Quantum Computing — Part 2	PAN01 — What's in your Photonics for Quantum Toolbox?	WKS07 — Progress and Challenges in Quantum Intermediate Representations (QIR)	WKS09 — Quantum Algorithms for Differential Equations	WKS08 — Developing Responsible and Ethical Quantum Computing for Societal Benefit	
11:30-13:00		Lunch																
13:00-14:30			WKS01 — Advanced Simulations of Quantum Computations — Part 2	WKS10 — Chemical Applications of Quantum Computing	QSEEC03 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	TP-QALG02 — Circuit Optimization - II Paper IDs: 339, 362, 365	TP-QAPP01 — Applications for Physical Sciences Paper IDs: 220, 385, 119	TP-QTEM02 — Quantum Controls - II Paper IDs: 79, 329, 377	Career Fair 13: 00-17:30	Career Fair 13: 00-17:30	TUT08 — A Deep-dive into Mitig. a Software Package for Error Mitigation on Noisy Quantum Computers	TUT07 — Algorithmic Approaches for Finding Better QUBO Formulations	TUT01 — Introduction to Quantum Computing — Part 2	TUT06 — Circuit Cutting with Quantum Serverless	WKS07 — Progress and Challenges in Quantum Intermediate Representations (QIR)	WKS09 — Quantum Algorithms for Differential Equations	WKS09 — Quantum Algorithms for Differential Equations	
14:30-15:00			Break															
15:00-16:30	Exhibits & Posters Setup		WKS01 — Advanced Simulations of Quantum Computations — Part 2	WKS10 — Chemical Applications of Quantum Computing	QSEEC03 — Quantum Science and Engineering Education Conference — Papers, Talks, Posters	TP-QALG07 — Optimization Paper IDs: 127, 218, 304	TP-QAPP06 — NISQ Benchmarks Paper IDs: 222, 241, 431	TP-QTEM06 — Tomography Paper IDs: 151, 275, 332	Career Fair 13: 00-17:30	Career Fair 13: 00-17:30	TUT08 — A Deep-dive into Mitig. a Software Package for Error Mitigation on Noisy Quantum Computers	BOF02 — Building the software stack for fault-tolerant quantum error correction	PAN02 — Munich, Chicago, Riken, Delft. Software Stacks in Big Quantum Computing Initiatives Road Map	TUT06 — Circuit Cutting with Quantum Serverless	WKS07 — Progress and Challenges in Quantum Intermediate Representations (QIR)	WKS09 — Quantum Algorithms for Differential Equations	WKS08 — Developing Responsible and Ethical Quantum Computing for Societal Benefit	
16:30-17:00		Break																
17:00-18:30		Keynote Shrutl Puri, Yale University																
18:30-20:30	Reception sponsored by AWS Exhibits Posters																	

QCE23 Program Tuesday — Parallel Tracks & Meeting Rooms																	
Click on Sessions for Abstracts																	
TUE	2nd Floor Hyatt Regency Bellevue												3rd Floor Hyatt Regency Bellevue				
Floor	1st Floor	2nd Floor Hyatt Regency Bellevue											3rd Floor Hyatt Regency Bellevue				
Room	Evergreen Ballroom	Grand Ballroom	Regency A	Regency B	Regency C	Regency E	Regency F	Regency G	Cedar A	Cedar B	Birch	Balsam	Auditorium	Juniper	Larch	Laurel	Cottonwood
Style Capacity	Booths Posters	Banquet 1450	Theater 77	Theater 80	Theater 77	Theater 77	Theater 80	Theater 77	Class-Panel 60	Class-Panel 60	Theater 49	Theater 49	Class-Panel 135	Class-Panel 60	Class-Panel 68	Class-Panel 42	Theater 49
8:00-9:30		Keynote Sarah Sheldon, IBM Quantum															
9:30-10:00	Exhibits & Posters	Break															
10:00-11:30			WKS12 — Quantum Artificial Intelligence	WKS15 — Quantum Computing Market Success Requires an Application-level Programming Model that Delivers Performance	TP-QALG03 — Error Correction and Mitigation - I Paper IDs: 121, 104, 169	TP-QAPP11 — Quantum Machine Learning Paper IDs: 388, 418, 262	TP-QSYS03 — Compilation - I Paper IDs: 145, 196, 397	TP-QTEM03 — Quantum Hardware - I Paper IDs: 138, 206, 256	WKS11 — Empowering Quantum Educators & Researchers with IBM Quantum Tools	WKS13 — Algorithm Grand Challenge: How to Make Better Use of NISQ Devices to Enable Algorithms for Practical Applications	TUT13 — Quantum Circuit Compilation and Classical Control with TKET	No Session	TUT09 — Hybrid Quantum-Classical Algorithms and Analog Hamiltonian Simulation on Amazon Braket	PAN03 — Quantum Error Correction with Superconducting Circuits. Experimental Challenges and Control Requirements	WKS14 — Quantum Computing Entrepreneurship	TUT11 — QubiC: An Open-Source FPGA-based Quantum Controller	WKS16 — Modular Quantum Computing Architectures: Bridging the Quantum Networks and Quantum Computing Communities
11:30-13:00	Posters & Exhibits	Lunch															
13:00-14:30			WKS12 — Quantum Artificial Intelligence	WKS15 — Quantum Computing Market Success Requires an Application-level Programming Model that Delivers Performance	TP-QALG04 — Error Correction and Mitigation - II Paper IDs: 393, 214, 456	TP-QAPP10 — Quantum Deep Learning Paper IDs: 307, 429, 159	TP-QSYS04 — Compilation - II Paper IDs: 148, 274, 258	TP-QTEM04 — Quantum Hardware - II Paper IDs: 171, 447, 464	WKS11 — Empowering Quantum Educators & Researchers with IBM Quantum Tools	WKS13 — Algorithm Grand Challenge: How to Make Better Use of NISQ Devices to Enable Algorithms for Practical Applications	TUT13 — Quantum Circuit Compilation and Classical Control with TKET	TUT12 — Playing with cats! What are cat qubits? How can they serve as a the basis for Fault Tolerant Quantum Computing?	TUT09 — Hybrid Quantum-Classical Algorithms and Analog Hamiltonian Simulation on Amazon Braket	TUT10 — Practical Quantum Machine Learning: Time Series Analysis with PennyLane and Covalent	WKS14 — Quantum Computing Entrepreneurship	TUT11 — QubiC: An Open-Source FPGA-based Quantum Controller	WKS16 — Modular Quantum Computing Architectures: Bridging the Quantum Networks and Quantum Computing Communities
14:30-15:00	Exhibits & Posters	Break															
15:00-16:30			WKS12 — Quantum Artificial Intelligence	WKS15 — Quantum Computing Market Success Requires an Application-level Programming Model that Delivers Performance	TP-QALG11 — Simulation Paper IDs: 172, 756, 408	TP-QAPP05 — Gradient Descent Training Paper IDs: 346, 371, 396	TP-QSYS05 — Compilation - III Paper IDs: 277, 113, 67	TP-QTEM05 — Surface Codes Paper IDs: 161, 205, 330	WKS11 — Empowering Quantum Educators & Researchers with IBM Quantum Tools	WKS13 — Algorithm Grand Challenge: How to Make Better Use of NISQ Devices to Enable Algorithms for Practical Applications	ROF03 — IEEE Quantum-HPC Working Group	TUT12 — Playing with cats! What are cat qubits? How can they serve as a the basis for Fault Tolerant Quantum Computing?	IEEE Computer Society Awards Panel	TUT10 — Practical Quantum Machine Learning: Time Series Analysis with PennyLane and Covalent	WKS14 — Quantum Computing Entrepreneurship	PAN04 — Academic Quantum Devices and their Vertical Stacks: Status, Quo and Future	WKS16 — Modular Quantum Computing Architectures: Bridging the Quantum Networks and Quantum Computing Communities
16:30-17:00	Posters & Exhibits	Break															
17:00-18:30		Keynote Ilamar Sivan & Yonatan Cohen Quantum Machines															

QCE23 Program Wednesday — Parallel Tracks & Meeting Rooms																	
Click on Sessions for Abstracts																	
WED	2nd Floor Hyatt Regency Bellevue												3rd Floor Hyatt Regency Bellevue				
Floor	1st Floor	2nd Floor Hyatt Regency Bellevue															
Room	Evergreen Ballroom	Grand Ballroom	Regency A	Regency B	Regency C	Regency E	Regency F	Regency G	Cedar A	Cedar B	Birch	Balsam	Auditorium	Juniper	Larch	Laurel	Cottonwood
Style	Booths	Banquet	Theater	Theater	Theater	Theater	Theater	Theater	Class-Panel	Class-Panel	Theater	Theater	Class-Panel	Class-Panel	Class-Panel	Class-Panel	Theater
Capacity	Posters	1450	77	80	77	77	80	77	60	60	49	49	135	60	68	42	49
8:00-9:30		Keynote Laura Schulz, Leibniz Supercomputing Centre (LRZ)															
9:30-10:00	Posters & Exhibits	Break															
10:00-11:30			WKS18 — Classical Control Systems for Quantum Computing	WKS19 — 4th Workshop on Quantum Computing Opportunities in Renewable Energy and Climate Change	WKS20 — Quantum Computing for Natural Sciences: Technology and Applications	TP-QALG05 — General - I Paper IDs: 427, 13, 401	TP-QAPP07 — Optimization - I Paper IDs: 356, 434, 260	TP-QSYS06 — Error Correction and Mitigation - I Paper IDs: 211, 416, 268	TUT14 — Introduction to Intel Quantum SDK Version 1.0	PAN05 — Quantum Industry Associations: Formation, Development, and Future Directions	PAN13 — Progress and Perspectives on NISQ Applications	TUT17 — SimuQ: A Domain-Specific Language for Quantum Simulation with Analog Compilation	WKS17 — 3rd International Workshop on Quantum Software Engineering and Technology	WKS21 — 3rd International Workshop on Quantum Software Engineering and Technology	PAN06 — Quantum-classical Processing to Push the Quantum Computing Limits	TUT19 — Quantum Ethics in Action	WKS22 — Towards Controlling Fault-Tolerant Quantum Computers
11:30-13:00	Exhibits & Posters	Lunch															
13:00-14:30			WKS18 — Classical Control Systems for Quantum Computing	WKS19 — 4th Workshop on Quantum Computing Opportunities in Renewable Energy and Climate Change	WKS20 — Quantum Computing for Natural Sciences: Technology and Applications	TP-QALG06 — General - II Paper IDs: 386, 204, 320	TP-QAPP08 — Optimization - II Paper IDs: 111, 270, 378	TP-QSYS07 — Error Correction and Mitigation - II Paper IDs: 72, 234, 299	TUT14 — Introduction to Intel Quantum SDK Version 1.0	TUT15 — Tangelo: Enabling Quantum Chemistry Workflows for Current and Future Quantum Computers	TUT18 — Parameterized Quantum Pulse Circuit and its Application	TUT17 — SimuQ: A Domain-Specific Language for Quantum Simulation with Analog Compilation	WKS17 — 3rd International Workshop on Quantum Software Engineering and Technology	WKS21 — 3rd International Workshop on Quantum Software Engineering and Technology	TUT16 — Quantum Pictures in Practice	TUT19 — Quantum Ethics in Action	WKS22 — Towards Controlling Fault-Tolerant Quantum Computers
14:30-15:00	Posters & Exhibits	Break															
15:00-16:30			WKS18 — Classical Control Systems for Quantum Computing	WKS19 — 4th Workshop on Quantum Computing Opportunities in Renewable Energy and Climate Change	WKS20 — Quantum Computing for Natural Sciences: Technology and Applications	TP-QALG12 — Variational Algorithms Paper IDs: 228, 472, 134	TP-QAPP03 — Benchmarking Quantum Annealers and Variational Algorithms Paper IDs: 94, 201, 208	TP-QSYS08 — Error Correction and Mitigation - III Paper IDs: 156, 267, 263	PAN07 — From the Capitol to the Laboratory: How Industry and Academia can Leverage	TUT15 — Tangelo: Enabling Quantum Chemistry Workflows for Current and Future Quantum Computers	TUT18 — Parameterized Quantum Pulse Circuit and its Application	No Session	WKS17 — 3rd International Workshop on Quantum Software Engineering and Technology	WKS21 — 3rd International Workshop on Quantum Software Engineering and Technology	TUT16 — Quantum Pictures in Practice	PAN07 — From the Capitol to the Laboratory: How Industry and Academia can Leverage National Policy for Funding of QIS	WKS22 — Towards Controlling Fault-Tolerant Quantum Computers
16:30-17:00	Exhibits & Posters	Break															
17:00-18:30		Keynote Stefan Leichenauer, SandboxAQ															
18:30-20:30			OCE Steering Committee Meeting														

THU QCE23 Program Thursday — Parallel Tracks & Meeting Rooms Click on Sessions for Abstracts																
Floor	2nd Floor Hyatt Regency Bellevue												3rd Floor Hyatt Regency Bellevue			
Room	Evergreen Ballroom	Grand Ballroom	Regency A	Regency B	Regency C	Regency E	Regency F	Regency G	Cedar A	Cedar B	Birch	Balsam	Auditorium	Juniper	Larch	Laurel
Style Capacity	Booths Posters	Banquet 1450	Theater 77	Theater 80	Theater 77	Theater 77	Theater 80	Theater 77	Class-Panel 60	Class-Panel 60	Theater 49	Theater 49	Class-Panel 135	Class-Panel 60	Class-Panel 68	Class-Panel 42
8:00-9:30		Keynote Krysta Svore, Microsoft														
9:30-10:00	Exhibits & Posters	Break														
10:00-11:30			WKS25 — Workshop on Quantum in Consumer Technology	WKS26 — Workshop on Software Architecture Concerns for Quantum (WOSAQ)	WKS28 — Emerging Technologies for Scaling Trapped-Ion Quantum Systems	TP-QALG08 — Quantum Machine Learning: Classification Paper IDs: 253_3_200	TP-QSYS09 — Simulation - I Paper IDs: 442_254_251	TP-QNET05 — Quantum Network Theory and Cryptography - I Paper IDs: 68_69_194	TUT20 — Using Qiskit Runtime Primitives with Error Suppression and Error Mitigation	PAN08 — Challenges Related to Adoption of Quantum Computing in an Enterprise	TUT24 — Quantum plus High-Performance Computing for Natural Language Processing	BOF04 — Advancing Quantum Workforce Development Initiatives: Strategies, Challenges and Opportunities	WKS23 — Quantum Resource Estimation	PAN09 — Scaling to Usefulness: Unifying Quantum and Classical Computers	WKS27 — Cryogenic Electronics for Quantum Systems	TUT22 — Speeding up Calibrations and Algorithm Execution through Agile Real-time Control
11:30-13:00	Posters & Exhibits	Lunch														
13:00-14:30			WKS25 — Workshop on Quantum in Consumer Technology	WKS26 — Workshop on Software Architecture Concerns for Quantum (WOSAQ)	WKS28 — Emerging Technologies for Scaling Trapped-Ion Quantum Systems	TP-QALG09 — Quantum Machine Learning: Deep Learning Paper IDs: 421_223_240	TP-QSYS10 — Simulation - II Paper IDs: 257_414_403	TP-QNET06 — Quantum Network Theory and Cryptography - II Paper IDs: 209_273_301	TUT20 — Using Qiskit Runtime Primitives with Error Suppression and Error Mitigation	TUT21 — Tutorial: Introduction to Quantum Computing: From Algorithm to Hardware	TUT24 — Quantum plus High-Performance Computing for Natural Language Processing	TUT23 — Cloud Quantum Computing with Neutral Atoms	WKS23 — Quantum Resource Estimation	TUT25 — Deep Dive into Classical Simulation of Quantum Circuits with QX-Simulator	WKS27 — Cryogenic Electronics for Quantum Systems	TUT22 — Speeding up Calibrations and Algorithm Execution through Agile Real-time Control
14:30-15:00	Exhibits & Posters	Break														
15:00-16:30			WKS25 — Workshop on Quantum in Consumer Technology	WKS26 — Workshop on Software Architecture Concerns for Quantum (WOSAQ)	WKS28 — Emerging Technologies for Scaling Trapped-Ion Quantum Systems	TP-QALG10 — Quantum Machine Learning: Novel Techniques Paper IDs: 199_475_457	TP-QSYS13 — Variational Quantum Algorithms Paper IDs: 178_2_463	TP-QNET01 — Entanglement Management and Network Design - I Paper IDs: 101_233_183	PAN10 — Real-Time Decoding in the Fault-Tolerant Era	TUT21 — Tutorial: Introduction to Quantum Computing: From Algorithm to Hardware	No Session	TUT23 — Cloud Quantum Computing with Neutral Atoms	WKS23 — Quantum Resource Estimation	TUT25 — Deep Dive into Classical Simulation of Quantum Circuits with QX-Simulator	WKS27 — Cryogenic Electronics for Quantum Systems	PAN11 — Quantum Standards: Progress, Plans and Challenges
16:30-17:00	Posters & Exhibits	Break														
17:00-18:30		Keynote Helmut Katzgraber, AWS														
18:30-20:30		Banquet														

QCE23 Program Friday — Parallel Tracks & Meeting Rooms															
Click on Sessions for Abstracts															
FRI	2nd Floor Hyatt Regency Bellevue											3rd Floor Hyatt Regency Bellevue			
Floor	Grand Ballroom	Regency A	Regency B	Regency C	Regency E	Regency F	Regency G	Cedar A	Cedar B	Birch	Balsam	Auditorium	Juniper	Larch	Laurel
Room	Banquet 1450	Theater 77	Theater 80	Theater 77	Theater 77	Theater 80	Theater 77	Class-Panel 60	Class-Panel 60	Theater 49	Theater 49	Class-Panel 135	Class-Panel 60	Class-Panel 68	Class-Panel 42
Style Capacity	Banquet 1450	Theater 77	Theater 80	Theater 77	Theater 77	Theater 80	Theater 77	Class-Panel 60	Class-Panel 60	Theater 49	Theater 49	Class-Panel 135	Class-Panel 60	Class-Panel 68	Class-Panel 42
8:00-9:30	Keynote Marco Pistoia, JPMorgan Chase														
9:30-10:00	Break														
10:00-11:30		WKS33 — Technology Roadmapping for Quantum Computing	PAN12 — Fostering DEIA Culture and Environment in Industry	TP-QAPP12 — Resource Optimization - I Paper IDs: 425, 411, 160	TP-QSYS11 — Software - I Paper IDs: 116, 106, 122	TP-QNET02 — Entanglement Management and Network Design - II Paper IDs: 282, 297, 298	TP-QAPP04 — General Paper IDs: 469, 422, 430	TUT26 — Benchmarking and Calibrating Quantum Devices with Qiskit Experiments	TUT27 — Solving Partial Differential Equations (PDEs) with Quantum Computers	TUT30 — Introduction to SeQUeNCe, a Customizable Discrete-Event Simulator of Quantum Networks	TUT28 — qBraid: The Quantum Ecosystem All in One Place	WKS29 — Quantum Algorithms for Financial Applications	WKS30 — Quantum System Stability and Reproducibility Workshop	WKS31 — Quantum Algorithm Design Automation	WKS32 — Quantum Characterization, Verification, and Validation (QCVV) for Fault Tolerance
11:30-13:00	Lunch														
13:00-14:30		WKS33 — Technology Roadmapping for Quantum Computing	No session	TP-QAPP13 — Resource Optimization - II Paper IDs: 168, 186, 360	TP-QSYS12 — Software - II Paper IDs: 367, 426, 326	TP-QNET03 — Quantum Network Modeling and Simulation - I Paper IDs: 5, 158, 175	TP-QSYS02 — Circuit Optimization Paper IDs: 150, 423, 453	TUT26 — Benchmarking and Calibrating Quantum Devices with Qiskit Experiments	TUT27 — Solving Partial Differential Equations (PDEs) with Quantum Computers	TUT30 — Introduction to SeQUeNCe, a Customizable Discrete-Event Simulator of Quantum Networks	TUT28 — qBraid: The Quantum Ecosystem All in One Place	WKS29 — Quantum Algorithms for Financial Applications	WKS30 — Quantum System Stability and Reproducibility Workshop	WKS31 — Quantum Algorithm Design Automation	WKS32 — Quantum Characterization, Verification, and Validation (QCVV) for Fault Tolerance
14:30-15:00		Break													
15:00-16:30		WKS33 — Technology Roadmapping for Quantum Computing	No session	TP-QAPP09 — Quantum Amplitude Estimation Paper IDs: 247, 302, 409	TP-QSYS01 — Benchmarks Paper IDs: 80, 337, 363	TP-QNET04 — Quantum Network Modeling and Simulation - II Paper IDs: 252, 289, 314	TP-QSYS14 — Security Paper IDs: 155, 165, 290	No session	No session	No session	No session	WKS29 — Quantum Algorithms for Financial Applications	WKS30 — Quantum System Stability and Reproducibility Workshop	WKS31 — Quantum Algorithm Design Automation	WKS32 — Quantum Characterization, Verification, and Validation (QCVV) for Fault Tolerance