

CP Track						
KEYNOTE LECTURE						Dec 09, 2026 • 10:50-11:50
Time		Keynote Speaker		Affiliation		Keynote Lecture title
9-Dec • 10:50-11:50		Dorit Aharonov		Hebrew U		From Quantum Advantage to Useful Quantum Computing: Evidence, Applications, and the Road Ahead
Track	Session Title	Date	Hours	Name	Affiliation	Lecture title
CP1	Foundations of Quantum Computing	8-Dec	14:50-15:20	Elham Kashefi	U Edinburgh	How can we trust a quantum computer? The foundations and practice of verification of quantum computation
			15:20-15:50	Yoshifumi Nakata	Science Tokyo	Certifying Entanglement from Classical Correlations
			15:50-16:20	Nathan Wiebe	U Toronto	Quantum Chemistry and Machine Learning Through Coherent Optimization
CP2	Practical Quantum Computing	8-Dec	16:40-17:10	André Schrottenloher	U Rennes	Recent advances in quantum circuits for cryptanalysis
			17:10-17:40	Noboru Kunihiro	U Tsukuba	Quantum Cryptanalysis of Public-Key Cryptography and the Transition to PQC
			17:40-18:10	Mauritz Kop	Stanford U	Before Q-Day: Responsible Quantum Innovation, Standards, and the Post-Quantum Transition
CP3	Toward FTQC	9-Dec	9:00-9:30	Takaya Matsuura	Riken	A framework for fault tolerance of continuous-variable quantum computation under general noise
			9:30-10:00	Dmitri Maslov	IonQ	Fault-Tolerant Quantum Computing with Trapped Ions: the Walking Cat Architecture
			10:00-10:30	Adam Zalcman	Google Quantum AI	Building a High-Performance Software Stack for Fault-Tolerant Quantum Computing: Circuits, Compilers, and Decoders
CP4	QC with Ions, Atoms and Photons (Part 1)	9-Dec	14:50-15:20	Roe e Ozeri	Weizmann I Sci	A scale-up architecture for trapped ions quantum computing and simulation based on multi-qubit gates and optical tweezers
			15:20-15:50	Roland Matt	IonQ (Oxford Ionics)	Electronic Qubit Control at IonQ
			15:50-16:20	Pascal Scholl	Pasqal	Towards fault-tolerant quantum computing with neutral atoms
CP5	QC with Ions, Atoms and Photons (Part 2)	9-Dec	16:40-17:10	Hac Huong Thu Le	AIST	Metasurfaces in Laser Cooling and Trapping of Neutral Atoms and Integrated Cold-Atom Platforms
			17:10-17:40	Warit Asavanant	OptQC	Research and development of full-stack optical quantum computer
			17:40-18:10	Jie (Sophie) Zhao	ANU	Towards scalable optical quantum technologies: near-deterministic generation of GKP states and precise characterisation of quantum measurements
CP6	Superconducting QC	10-Dec	9:00-9:30	David Pappas	Rigetti	Scaling Alternating-Bias-Assisted Annealing for Precision Transmon Frequency Targeting with Automating detection of Two-Level Systems in Superconducting Qubits
			9:30-10:00	Makoto Negoro	U Osaka	Control of cross-resonance-type superconducting quantum computers
			10:00-10:30	Alexander Read	Yale U	The Dielectric Dipper: Correlating bulk dielectric loss with underlying material properties
CP7	Semiconductor QC	10-Dec	14:00-14:30	James Clark	Intel	Scaling of Spin Qubit Arrays with the Semiconductor Ecosystem at Intel
			14:30-15:00	John M. Nichol	U Rochester	Quantum computing and quantum science with electron spins in silicon
			15:00-15:30	Sayyid Irsyadul Ibad	Science Tokyo	Coherent Control and Coherence Protection of Silicon Hole Spin Qubits
CP8	Quantum Annealing	10-Dec	15:50-16:20	Sheir Yarkoni	Qarakal	How Modeling Choices Influence Hardware Performance in Quantum Optimization
			16:20-16:50	Hiroki Takesue	NTT Basic Res Lab	Coherent Ising machine as a gain-based computer
			16:50-17:20	Nicholas Chancellor	Newcastle U	Understanding quantum annealing and beyond

SE Track						
KEYNOTE LECTURE						Dec 09, 2026 • 13:30-14:30
Time		Keynote Speaker		Affiliation		Keynote Lecture title
9-Dec • 13:30-14:30		Amir Yacoby		Harvard U		Quantum Sensing of Quantum Matter
Track	Session Title	Date	Hours	Name	Affiliation	Lecture title
SE1	OpticalQuantum Sensing	8-Dec	16:40-17:10	John G. Rarity	U Bristol	Quantum interference for near to far infrared sensing
			17:10-17:40	Ryosuke Shimizu	UEC	Quantum Spectroscopy with Time-Frequency Entangled Photons
			17:40-18:10	Guangwei Hu	Nanyang T U	Flat-optics for high-dimensional transfer function engineering
SE2	Quantum Sensing for Fundamental Physics and Astronomy	9-Dec	9:00-9:30	Ernst David Herbschleb	KEK WPI-QUP	Diamond as detection platform for dark matter
			9:30-10:00	Yuta Michimura	U Tokyo	Probing Gravity-Induced Entanglement with Optomechanical Systems
			10:00-10:30	Haocun Yu	U Tennessee	Probing Fundamental Physics with Squeezed and Entangled Light
SE3	Solid-State Quantum Sensors 1	9-Dec	14:50-15:20	Igor Aharonovich	U Tech Sydney	Quantum Technologies with Hexagonal Boron Nitride
			15:20-15:50	Yuichi Yamazaki	QST	Quantum electrometry using silicon vacancies in a silicon carbide power device
			15:50-16:20	Gregory D. Fuchs	Cornell U	Understanding and Engineering Defect Properties for Quantum Sensing
SE4	Solid-State Quantum Sensors 2	9-Dec	16:40-17:10	Peter Lemmens	Quantum Diamonds	Seeing What Others Can't - Quantum Diamond Magnetic Imaging for Non-Destructive Electrical Fault Localization
			17:10-17:40	Hiroki Morishita	Tohoku U	Diamond Quantum Sensing with Photoelectric Readout
			17:40-18:10	Ivo Pietro Degiovanni	INRIM	INRIM activities on Metrology for Colour-centre-based quantum sensing technology
SE5	Molecular Quantum Sensors	10-Dec	9:00-9:30	Peter Maurer	Chicago U	From diamond defects to protein-based qubit sensors
			9:30-10:00	Harrison Steel	U Oxford	Engineering of Biological Quantum Sensors using Synthetic Biology and Robotics
			10:00-10:30	Nobuhiro Yanai	U Tokyo	Molecular Quantum Sensors Enabled by Materials Chemistry
SE6	Position, Navigation, and Timing	10-Dec	14:00-14:30	Cristian Panda	U Arizona	Quantum metrology and sensing with an atomic spatial superposition state coherent for one minute
			14:30-15:00	Tetsuya Ido	NICT	Optical-Microwave Hybrid Timescale for Five Years
			15:00-15:30	Jacob Tunesi	NPL	Verifying the International Consistency of Optical Clocks via Coordinated Campaigns
SE7	Quantum Life	10-Dec	15:50-16:20	R. J. Dwayne Miller	U Toronto	“What is Life?” Can we measure it?
			16:20-16:50	Hideki Kandori	Nagoya I T	Photoactivation Mechanism of Animal and Microbial Rhodopsins
			16:50-17:20	Masaaki Tsubouchi	QST	Two-dimensional electronic spectroscopy of light-harvesting phycobiliproteins synthesized by recombinant DNA techniques

CC Track						
KEYNOTE LECTURE						Dec 10, 2026 • 10:50-11:50
Time		Keynote Speaker		Affiliation		Keynote Lecture title
10-Dec • 10:50-11:50		Hoi-Kwong Lo		National U Singapore		Security challenges to quantum networks
Track	Session Title	Date	Hours	Name	Affiliation	Lecture title
CC1	Distributed Quantum Computing	8-Dec	13:00-13:30	Jessica Bavaresco	CNRS & Sorbonne U	Higher-order quantum operations for characterizing and optimizing quantum networks
			13:30-14:00	Shota Nagayama	Keio U	Why Do Quantum Networks Need Architecture Research?
			14:00-14:30	Hideo Kosaka	National U Yokohama	Diamond-based Quantum Interconnects: Toward Quantum Networks
CC2	Quantum Internet	9-Dec	9:00-9:30	Bill Munro	OIST	Building the Quantum Internet: Scalable Photonic Networks and Hybrid Architectures
			9:30-10:00	Toshimori Honjo	NTT	Time-Bin Entanglement for High-Rate and Multi-User Quantum Networks
			10:00-10:30	Ivan Supic	CNRS	Post-quantum cryptography and single-prover certification of quantum resources
CC3	Foundations of Quantum Communication	9-Dec	14:50-15:20	Damian Markham	U Cologne	Security and efficiency in networks of quantum sensors
			15:20-15:50	Ryuji Takagi	U Tokyo	Universal quantum resource distillation
			15:50-16:20	Hayata Yamasaki	U Tokyo	Constant-Overhead Magic State Distillation
CC4	Quantum Cryptography	9-Dec	16:40-17:10	Alvaro Navarrette	U Vigo	Recent advances in the implementation security of quantum key distribution
			17:10-17:40	Urbasi Sinha	Raman Research Institute	Quantum Cryptography with Photons: From Foundational Tests to Randomness and Secure Communication
			17:40-18:10	Tetsuo Kawakami	NEC	Digital Coherent CV-QKD Integration into Classical Optical Networks
CC5	Quantum communication device	10-Dec	9:00-9:30	Alexander Ling	National U Singapore	Recent advances in the implementation security of quantum key distribution
			9:30-10:00	Fumihiro Kaneda	Tohoku U	Active Multiplexing toward Multi-Photon Quantum Network Applications
			10:00-10:30	Feng-Lei Hong	Yokohama National U	Laser frequency control and optical fiber noise suppression for quantum communication
CC6	QKD Module Implementation and Network Deployment	10-Dec	14:00-14:22	Gregoire Ribordy	IDQ	TBD
			14:23-14:44	Nino Walenta	Fraunhofer	Engineering QKD for Real-World Telecom Networks
			14:45-15:07	Masakazu Ono	NEC	Quantum Key Distribution Research and Development in NEC
			15:08-15:30	Mayuko Koezuka	Toshiba	Scaling Up Quantum Key Distribution: Technologies, Network Integration, and Applications
CC7	Certification of QKD Modules	10-Dec	15:50-17:20	Hoi-Kwong Lo	National U Singapore	Panel Discussion : Certification of QKD Modules — Bridging Security Proofs and Real-World Deployment
				Gregoire Ribordy	IDQ	
				Nino Walenta	Fraunhofer	
				Sibylle Schaller	NEC Lab Europe	
				Martin Ward	Toshiba Europe	