



Day 1 – Monday, March 12

Time	Event
8:00-8:30 AM	Registration
8:30-9:00 AM	Barsotti – The quantum side of gravitational wave detectors
9:00-9:30 AM	Waks – Controlling light with a single spin
9:30-10:00 AM	Croke – Quantum measurement in the age of small quantum devices
10:00-10:30 AM	Coffee
10:30 AM-12:30 PM	Contributed Talks 10:30 - Client-friendly verifiable continuous-variable blind quantum computing 10:50 - Unconditional Shot-noise-limit Violation in Photonic Quantum Metrology 11:10 - Ultra-Efficient Single-Photon Source via Time Multiiplexing 11:30 - Improving a solid-state qubit through an engineered mesoscopic environment 11:50 - Round-robin-differential-phase-shift quantum key distribution 12:10 - Experimental demonstration of quantum effects in the operation of microscopic heat engines
12:30-2:30 PM	Lunch
2:30-3:00 PM	Jennewein – Observation of genuine three-photon interference
3:00-3:30 PM	Jiang – Quantum control and error correction with superconducting circuits
3:30-4:00 PM	Klempt – EPR and spatial-mode entanglement in spinor Bose-Einstein condensates
4:00-4:30 PM	Coffee
4:30-5:00 PM	Linke (Monroe) – Quantum algorithms with trapped ions
5:00-5:30 PM	Strobel (Oberthaler) – Genuine multipartite entanglement and Einstein-Podolsky-Rosen steering of atomic clouds
5:30-6:00 PM	Matthews (O'Brien) – Homodyne detection on-chip for large scale silicon quantum photonics
7:00-9:00 PM	Poster Session 1



Day 2 – Tuesday, March 13

Time	Event
8:00-8:30 AM	Registration
8:30-9:00 AM	Curty - Towards implementation security of quantum key distribution
9:00-9:30 AM	Demkowicz-Dobrzanski – The Great Unified Theory of Quantum Metrology
9:30-10:00 AM	Dressel – Watching Superconducting Qubits with Microwaves
10:00-10:30 AM	Coffee
10:30 AM-12:30 PM	Contributed Talks 10:30 – Intra-city high-dimensional quantum cryptography with structured photons 10:50 – What Do We Learn About Quantum Correlations From Collaborative Quantum Computing? 11:10 – No-Hypersignaling Principle 11:30 – Interfering photons in orthogonal states 11:50 – Sub-Shot Noise Stimulated Raman Spectroscopy with Parametric Homodyne Detection 12:10 – Experimental Tests of Indefinite Causal Orders
12:30-2:30 PM	Lunch
2:30-3:00 PM	Heurs – Quantum noise reduction schemes for interferometric gravitational wave detection
3:00-3:30 PM	Vladen – Manipulating individual quanta: photon molecules and 51 atomic qubits
3:30-4:00 PM	Lam – Multiparameter Optimisation of a Magneto-Optical Trap Using Deep Learning Artificial Neural Networks
4:00-4:30 PM	Coffee
4:30-5:00 PM	Okamoto – Photonic quantum circuits for quantum measurement: a quantum shutter closing two slits simultaneously and adaptive quantum state estimation
5:00-5:30 PM	Polzik – Measurement of motion in a negative mass reference frame: from nanomechanics to gravitational wave detectors
5:30-6:00 PM	Schnabel – Gaussian Entanglement and Quantum Key Distribution
7:00-9:00 PM	Poster Session 2



Day 3 – Wednesday, March 14

Time	Event
8:00-8:30 AM	Registration
8:30-9:00 AM	Howell – Compressive Quantum Sensing
9:00-9:30 AM	Kyriienko (Sorensen) – Floquet quantum simulation
9:30-10:00 AM	Howl (Fuentes) - Detecting gravitational waves with phonons of a BEC
10:00-10:30 AM	Coffee
10:30 AM-11:30 PM	Contributed Talks 10:30 – Measurement-based linear optics 10:50 – Experimentally simulating the dynamics of quantum light and matter at deep-strong coupling 11:10 – Spatial entanglement patterns and Einstein-Podolsky-Rosen steering in a Bose-Einstein condensate
12:30-3:00 PM	LIGO Tour Group 1
3:30-6:00 PM	LIGO Tour Group 2



Day 4 – Thursday, March 15

Time	Event
8:00-8:30 AM	Registration
8:30-9:00 AM	Giacomo (Ye) – Towards low temperature phases of fermionic polar molecules
9:00-9:30 AM	Kok – Optimal Quantum Imaging of Distant Black Bodies
9:30-10:00 AM	Burns (Regal) - Harnessing electro-optic correlations to improve an efficient mechanical converter
10:00-10:30 AM	Coffee
10:30 AM-12:30 PM	Contributed Talks 10:30 – Limits on spectral resolution measurements by quantum probes 10:50 – Observation of a non-linear interference on silicon waveguide 11:10 – Fault-tolerant quantum metrology 11:30 – Towards high-dimensional entanglement-based quantum communication in free space 11:50 – Recurrences in an isolated quantum many-body system
12:30-2:30 PM	Lunch
2:30-3:00 PM	Lu – Multi-photon quantum boson-sampling machines
3:00-3:30 PM	Ling – Progress in satellite QKD and considerations for the future
3:30-4:00 PM	Tsang – Seize the Moments: Enhancing Moment Estimation for Subdiffraction Incoherent Imaging
4:00-4:30 PM	Coffee
4:30-9:00 PM	Banquet 4:30 PM – Banquet Busses Depart 6:00 PM – Banquet Busses Arrive 6:30 PM – Tour & Cajun Band 7:30 PM – Banquet Dinner
9:00-9:30 PM	Chaoyang Lu (Jianwei Pan)



Day 5 – Friday, March 16

Time	Event
8:00-8:30 AM	Registration
8:30-9:15 AM	Award Talk - David McClelland - Audio-band Squeezing and LIGO
9:15-10:00 AM	Award Talk - Roman Schnabel - Squeezed States of Light in the Gravitational-Wave Detector GEO600
10:00-10:30 AM	Lett - Two-mode squeezing in interferometry and imaging
10:30-11:00 PM	Coffee
11:00 AM-12:00 PM	Award Talk - Carlton Caves - One physicist's crooked path from quantum optics to quantum information
12:00-12:30 PM	Englund – Large -Scale Programmable Photonic Circuits and Applications in Quantum Information Processing
12:30-2:30 PM	Lunch
2:30-3:30 PM	Hearne Lecture – Carlton Caves - What the #*\$! Do We (K)now!? about Quantum Mechanics