

ICIQP 2018

	Monday 15		Tuesday 16		Wednesday 17
08:30	Registration				
09:20	Opening				
	PHOTONIC CIRCUITS I - Chair of the session: Andrew White		QUANTUM PROTOCOLS II - Chair of the session: Sophia Economou		SOURCES II - Chair of the session: Stephan Goetzinger
09:30	Dirk Englund: Memory-Integrated Photonic Integrated Circuits for Quantum Networks	09:30	Andrew White: Hypercubes, drums, and single photons	09:30	Hiroki Takesue: Quantum communication experiments with optical waveguide devices
10:00	Klaus Joens: Hybrid quantum photonic integrated circuits	10:00	Carlos Anton-Solanas: Interfacing solid-state single-photon sources and integrated photonics circuits: high rate three-photon coalescence	10:00	Yannick Chassagneux: Exploiting 1D exciton-phonon coupling for tunable single photon source with carbon nanotube
10:20	Mirko Lobino: Continuous Variable quantum optics on-chip	10:20	Andrea Olivo: Investigating the optimality of ancilla-assisted linear optical Bell measurements	10:20	Maja Colautti: Integrated Organic Molecules for Quantum Technologies
10:40	Coffee Break	10:40	Coffee break	10:40	Coffee break
	PHOTONIC CIRCUITS II - Chair of the session: Frédéric Grasshans		SOURCES I - Chair of the session: Mirko Lobino		PHOTONIC CIRCUITS III - Chair of the session: Maria Amanti
11:10	Fabio Sciarrino: Machine learning for processing and certification of photonic quantum information	11:10	Virginia d'Auria: On chip squeezing generation and detection	11:10	Anthony Laing: Photonic simulations of molecular quantum dynamics
11:40	Caterina Taballione: Programmable 8x8 linear optical network based on silicon nitride waveguides for quantum information processing	11:40	Simone Atzeni: Integrated source of entangled photon pairs in a hybrid laser-written circuit	11:40	Giacomo Corrielli: Quantum interference between topologically protected edge states in a laser written waveguide array
12:00	Presentation of exhibitors	12:00	Marcelo Davanco: Heterogeneous Quantum Integrated Photonics with InAs Quantum Dots	12:00	Devin H. Smith: Modular Linear Circuits for Integrated Quantum Optics
12:20	Lunch break	12:20	Lunch break	12:20	Lunch break
			QUANTUM PROTOCOLS III - Chair of the session: Fabio Sciarrino		ENTANGLEMENT I - Chair of the session: Anthony Laing
14:00	Poster session I (odd numbers)	14:00	Edo Waks: Photonic quantum information processing enabled by semiconductor spin	14:00	Sophia Economou: Spin-photon interfaces for quantum computing and communication
		14:30	Dario Lago-Rivera: Storage of frequency-multiplexed heralded single photons in a laser-written waveguide	14:30	Stefano Paesani: High-dimensional entanglement in large-scale Silicon quantum photonics
		14:50	Marco Avesani: Secure heterodyne-based quantum random number generator at 17 Gbps	14:50	Hagai Eisenberg: Generating multi-photon entangled states from a single deterministic single-photon source
		15:10	Coffee break	15:10	Coffee break
	QUANTUM PROTOCOLS I - Chair of the session: Edo Waks		INTEGRATED DETECTORS - Chair of the session: Wolfgang Loeffler		ENTANGLEMENT II - Chair of the session: Isabelle Zaquine
15:30	Chao-Yang Lu: Efficient boson sampling with single-photon source	15:40	Wolfram Pernice: Detection of single photons in nanophotonic circuits	15:40	Maria Amanti: Generation and manipulation of hyper-entangled frequency combs in an AlGaAs chip
16:00	Jelmer Renema: The hardness of boson sampling under imperfections	16:10	Jan Philipp Höpker: Integrated transition edge sensors on lithium niobate waveguides	16:10	Christophe Galland: Photonic quantum correlations mediated by individual phonons
16:20	Jonas Zeuner: Experimental Quantum Homomorphic Encryption	16:30	Luis Trigo Vidarte: Correlations with on-chip detection for continuous-variable QKD	16:30	Conclusion
16:40	Coffee Break	16:50	Poster session II (even numbers)	16:40	End of day 3
	PHOTON-PHOTON GATES - Chair of the session: Kartik Srinivasan				
17:10	Stephan Goetzinger: Close to perfect coupling of photons to a single molecule in a microcavity				
17:40	Daniel Najer: Coupling a charge-tunable quantum dot to a cavity mode with cooperativity above one hundred				
18:00	Dominic Hallett: Quantum non-linear optics with a quantum dot in a nano-photonic waveguide: Influence of the Fano effect on photon statistics				
18:20	End of day 1	18:20	End of poster session		
		19:30	Banquet		
		23:30	End of day 2		