	Monday 21 October 2019	
08:00	Registration opening	
09:00	Welcome	
09:10	Session 1 - Sources I	**S. Reitzenstein - Deterministically fabricated quantum dot – waveguide systems for on-chip quantum optics**
		F. Graffitti - Direct generation of tailored ultrafast entanglement
		S. Haffouz - InAsP quantum dot nanowires for telecom single photon emission
		T. Mueller - Quantum teleportation using highly coherent emission from telecom C-band quantum dots
10:40	Coffee break	
11:10	Session 2 - Applications I	**E. Diamanti - Demonstrating quantum advantage with practical photonic systems**
		K. Wei - Experimental Quantum Switching for Exponentially Superior Quantum Communication Complexity
		D. Cozzolino - Hybrid entanglement distribution through an air-core fiber
		C. Vigliar - High-Dimensional Chip-to-Chip Entanglement Distribution through Multicore Fibres
		A. Arvanitaki - Nanowire Detection of Photons from the Dark Side
13:00	Platinum sponsor presentation	
13:05	Lunch	
14:20	Session 3 - Detectors I	**E. Charbon - Massively parallel, three-dimensional photon counting: a versatile tool for quantum experimentalists and consumers**
		E. Conca - Wide-area fast-gated single-photon detector with integrated TDC for near-infrared spectroscopy applications
		F. Acerbi - Silicon photomultipliers optimized for cryogenic temperatures
		S. Grosse - Single-Photon Detectors based on CSPAD technology
15:50	Coffee break	
16:20	Session 4 - Metrology I	F. Piacentini - New Frontiers in Quantum Measurement: Protective Measurement, Genetic Quantum Measurement and Robust Weak Measurement
		L. Shalm - Certified Randomness Expansion using a Loophole-Free Bell Test
		C. Chunnilall - Investigations towards transmitting time and QKD signals over the same optical fibre
		M. Lasota - Reliable estimation of the statistics of photons emitted from an unknown source of light
17:40	Transfer to Leonardo campus	
18:30	Welcome reception @ Leonardo campus	
20:30	End	

	Tuesday 22 October 2019	
09:00	Historical perspective by Sergio Cova	
09:15	Session 5 - Detectors II	**B. Korzh - Advances in superconducting nanowire single photon detectors and related applications**
		V. Verma - Kilopixel arrays of superconducting nanowire single-photon detectors
		D.H. Smith - Multiplexed Superconducting Nanowire Single-Photon Detectors on UV-Written Silica Waveguides
		A. Gaggero - SNSPD readout using the amplitude multiplexing approach
10:45	Coffee break	
11:15	Session 6 - Metrology II	S. Polyakov - First quantum-measurement-inspired, scalable communication protocol and its experimental demonstration
		S. Schwarz - Reconstructing ultrafast energy-time entangled two-photon pulses
		D. Fuster - Development of a plug&play single photon source using electro-optical pumping schemes
		H. Ollivier - Quantum dot based single photon sources: performance reproducibility
12:35	Platinum sponsor presentation	
12:40	Lunch	
13:55	Session 7 - Applications II	**M. Lucamarini - Measurement Device Independent Quantum Cryptography**
		M. Minder - Experimental quantum key distribution beyond the repeaterless secret key capacity
		M. Avesani - Practical Source-Device-Independent Quantum random number generators
		S. Wengerowsky - Entanglement distribution via a submarine fiber in the Mediterranean
		S. Wengerowsky - An entanglement based wavelength-multiplexed Quantum Communication Network
15:45	Platinum sponsor presentation	
15:50	Coffee break	
16:20	Session 8 - Applications III	**K. Suhling - Time-correlated single photon counting wide-field Fluorescence Lifetime Imaging Microscopy**
		G. Tortarolo - Towards Single-Photon Microscopy: Exploiting Extra Spatio-Temporal Information Provided by SPAD Array Detectors in Laser Scanning Microscopy
		D. Tabakaev - Entangled two-photon absorption and the quantum advantage in sensing
		A. Ingle - Towards General-Purpose Passive Imaging with Single-Photon Sensors
		A. White - Realtime photon-number resolution & imaging via photon counting
18:10	Poster session I	
19:30	End	

	Wednesday 23 October 2019	
09:00	Session 9 - Applications IV	**J. Matthews - Homodyne detectors on-chip for large scale silicon quantum photonics**
		F. Ceccarelli - Low-power reconfigurable photonic integrated circuits fabricated by femtosecond laser micromachining
		P. Connolly - Multispectral single-photon imaging using high efficiency plasmonic metasurface filters
		S. Olivier - Towards an integrated quantum photonics platform on silicon for secured communications
		J. Renema - Imperfect Gaussian Boson Sampling is Classically Simulable
10:50	Coffee break	
11:20	Session 10 - Metrology III	**I. Degiovanni - Light sources characterisation and optical modes reconstruction**
		Y.-L. Mao - Error-Disturbance Trade-off in Sequential Quantum Measurements
		A. Paterova - Infrared metrology with visible light
		K. Laiho - Characterizing heralded single photons from a Bragg-reflection waveguide loss-tolerantly via moment generating function
12:50	Platinum sponsor presentation	
12:55	Lunch	
14:10	Session 11 - Detectors III	**B. Aull - Large-Format Image Sensors Based on Integration of Custom Geiger-Mode Avalanche Photodiode Arrays with All-Digital CMOS Circuits**
		C.-Y. Park - Room temperature operation of InP/InGaAs single photon avalanche diode
		G. Buller - Planar Geometry Ge-on-Si Single-Photon Avalanche Diode Detectors for the Short-Wave Infrared
		G. Acconcia - Fully integrated electronics for high-performance and high-speed acquisition with Single Photon Avalanche Diodes
		M. Salomoni - Future perspective of SiPM technology
16:00	Coffee break	
16:30	Session 12 - Sources II	C.A. Solanas - Scalable interfacing of quantum photonic platforms: solid-state single-photon sources and reconfigurable photonic circuits
		T. Heindel - Single-Photon QKD using Engineered Solid-State Quantum-Light Sources
		S.D. Tchernij - Electrical control of Nitrogen – Vacancy centers in diamond
		S. Ecker - Overcoming noise in entanglement distribution through high-dimensional encoding
17:50	Transfer to Castello Sforzesco	
18:30	Guided tours of Castello Sforzesco	
20:00	Dinner at Castello Sforzesco	
23:00	End	

	Thursday 24 October 2019	
09:00	Session 13 - Sources III	**C. Toninelli - Single-molecule based single photon sources**
		R. Schofield - Nanophotonic waveguide coupling to organic molecules in micro-capillaries
		H. Abudayyeh - Quantum light manipulation: A path towards efficient pure room-temperature single photon sources
		H. Wang - Single photons for quantum technologies
		C. P. Lualdi - High-Efficiency Time-Multiplexed Single-Photon Source
10:50	Coffee break	
11:20	Session 14 - Applications V	**K. Srinivasan - Quantum source and frequency conversion technologies based on integrated nanophotonics**
		J. Adcock - Programmable mutliphoton graph states on a silicon chip
		G. Kavuri - Towards a loophole-free Bell experiment on a tabletop
		Z.-H. Xiang - Network Integration of Quantum Dot Device and Entanglement in Cambridge Fiber Network
12:50	Platinum sponsor presentation	
12:55	Lunch	
14:10	Session 15 - Detectors IV	**S. W. Nam - From dark matter detection to artificial intelligence: applications of superconducting nanowire single photon detectors**
		M. Perrenoud - High detection rate and high efficiency with parallel SNSPDs
		S. Buckley - Progress in superconducting optoelectronic networks for neuromorphic computing
		T. Takumi - Time-resolved measurement of a single-photon wave packet with an optical Kerr effect
		E. Fossum - Quanta Image Sensor Progress Review
16:00	Coffee break	
16:30	Session 16 - Applications VI	**S. Verghese - Self-driving cars and lidar**
		G. Musarra - Single-photon, single-pixel intelligent Lidar
		A. Maccarone - Three dimensional imaging of dynamic underwater scenes using single photon detection
		R. Tobin - Depth imaging through obscurants using single photon detection in the short-wave infrared
		M. Laurenzis - Computational imaging with SPADs at SWIR wavelengths
18:20	Poster session II	
19:40	End	

	Friday 25 October 2019	
09:00	Session 17 - Detectors V	**J. Rothman - Reaching for GHz single photon detection rates with HgCdTe APD detectors**
		L. Gasparini - CMOS-SPAD arrays for Quantum Imaging Applications
		M. Zarghami - A Novel Approach to High Dynamic Range Imaging with CMOS-SPADs
		G. Jegannathan - Current-assisted single photon avalanche diode(CASPAD) in 350 nm CMOS
		D. Starkey - Room Temperature Photon-number-resolving Color Imaging without Avalanche Gain
10:50	Coffee break	
11:20	Session 18 - Sources IV	**P. Michler - Quantum dots at telecom wavelengths for single- and entangled photon sources**
		S. Francesconi - Engineering two-photon wavefunction and exchange statistics in a semiconductor chip
		G. Solomon - Filter-free single-photon emission in an integrated cavity-waveguide device
		C. Marvinney - Toward control of the quantum state of hBN single-photon emitters
		J. Grim - Three-Quantum-Dot Superradiance in a Photonic Crystal Waveguide Enabled by Scalable Strain Tuning
13:10	Lunch	
14:15	Session 19 - Applications VII	**Q. Zhang - Single photon technology in Long Distance Quantum Communication**
		Z.-D. Li - Experimental quantum repeater without quantum memory
		A. Scriminich - Hong-Ou-Mandel interference of polarization qubits stored in independent room-temperature quantum memories
		S. Grandi - Towards long distance entanglement between a photon and a solid-state quantum memory
		M. F. Askarani - Entanglement and non-locality between disparate solid-state quantum memories mediated by photons
16:05	Concluding remarks	
16:15	Farewell coffee	
16:45	End	

Notes:
Bold = invited talk, 30 min
Regular = contributed talk, 20 min