

	Monday (Oct. 31)	
09:00	Registration	
09:30		
09:50		
10:10	(Coffee)	
10:30	(Opening)	
11:00	Session 1 - Applications I Chair: Yoon-Ho Kim	Paul G. Kwiat – Entanglement-enhanced attosecond-scale time-of-flight measurements
11:30		Sebastian Ecker – Entanglement purification with a single photon pair
11:50		I. Burenkov - In situ calibration and single-molecule resolution of flow cytometers via an optical quantum measurement
12:10		Soeren Wengerowsky – Cavity-assisted highly efficient AFC optical memory in Pr ³⁺ :Y ₂ SiO ₅
12:30		Sponsor presentation: ID Quantique
12:35	Lunch	
14:00	Session 2 - Sources I Chair: Thomas Gerrits	Andreas Pfenning – Semiconductor quantum dots as a resource for photonic quantum science and technologies
14:30		Jehyung Kim - Plug & play single-photon source based on quantum dots with a highly efficient photonic interface
14:50		Lucas Rickert - A QKD testbed using a plug & play telecom-wavelength single-photon source
15:10		D. Northeast - Approaching transform-limited single photon linewidths with nanowire quantum dot emitters
15:30		Sponsor presentation: Wooriro
15:35	Coffee break	
16:00	Session 3 – Networking, Detectors I Chair: Christopher Chuunilall	Robert Thew - Quantum networks: single photons to multipartite entanglement
16:30		Simone Ferrari - Investigation of the latency time and jitter in waveguide-integrated SNSPDs
16:50		Thomas Hummel - Nanosecond gating of superconducting nanowire single-photon detectors
17:10		Giovanni Resta - Multipixel SNSPD for high system detection efficiency at GHz count rates
17:30		Sponsor presentation: QuantumOpus/MPD
17:35 – 19:00	Welcome reception	

	Tuesday (Nov. 1)	
09:00	Session 4 - Sources II Chair: Jehyung Kim	Angela Gamouras - Enabling direct SI-traceable measurements of quantum dot single-photon sources
09:30		Marco López - Single-photon sources for quantum radiometry at PTB
09:50		Junyeop Song - Improved quantum dot spectral broadening in multimode nanobeam photonic crystal cavities
10:10		Colin Lualdi - Efficient quantum information processing via multiplexing
10:30		Sponsor presentation: Hamamatsu Photonics
10:35	Coffee break	
11:00	Session 5 - Detectors II Chair: Felix Bussieres	C. Y. Park - InGaAs/InP SPAD with high photon detection efficiency and low dark count noise
11:30		Fabio Signorelli - Si and Ge-on-Si self-assembled micro-crystal SPADs
11:50		Davide Berretta - SPAD pixels with stable hold-off for high photon-rate applications
12:10		Ankit Kumar - Ultrafast optical response in high-temperature superconducting microwires
12:30	Lunch	
14:00	Poster Session I	
14:30		
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15:30	Coffee break	
16:00	Session 6 - Metrology Chair: Dong-Hoon Lee	M. Gramegna - Developing metrology at the photon counting regime for testing the implementation security of quantum communications
16:30		Hsuan-Hao Lu – Randomized tomography of high-dimensional biphoton frequency combs
16:50		I. Burenkov - Coexistence of quantum channels with classical clock synchronization in an optical quantum network
17:10		Anna Paterova – Quantum interferometry for a broadband infrared spectroscopy
17:30		Ivo Pietro Degiovanni - Noise diagnostics by repeated quantum measurements
17:50	(End)	

	Wednesday (Nov. 2)	
09:00	Session 7 - Computing & Simulation I Chair: Yong-Su Kim	Andrew White - Rise of the machines: Making better photons by getting rid of experimentalists
09:30		Anton Vetlugin - Photon-transmon analogy: modeling optical experiments on a quantum computer
09:50		Sergey Polyakov - Single-shot accuracy estimates for quantum measurements and their use for quantum-enabled error correction
10:10		Gaëtan Gras - Quantum entropy model of an integrated QRNG chip
10:30	Coffee break	
11:00	Session 8 - Detectors III Chair: Alberto Tosi	Ivan Michel Antolovic - SPAD arrays advance spatial and temporal resolution
11:30		M. V. Jabir - Quantum enabled telecom receiver for resource efficient communication
11:50		Giulia Acconcia - Beyond pile-up in time-correlated single photon counting with a single-channel SPAD system
12:10		Anton Vetlugin - Photon number resolving detection of light without optical mode multiplication
12:30	Lunch	
14:00	Session 9 - Sources III Chair: Ivo Pietro Degiovanni	Pascale Senellart - High-rate entanglement between a semiconductor spin and indistinguishable photons
14:30		Mathias Pont - 2-Photon interference with remote bright electrically tunable quantum dot sources
14:50		Edith Yeung - Generation of indistinguishable photons using hybrid quantum photonic integrated circuits
15:10		Changmin Lee - Post-selected indistinguishable single photons at telecom wavelengths
15:30	Coffee break	
16:00	Session 10 – Networking, Detectors IV Chair: Ivan Michel Antolovic	Taofiq Paraiso - On-chip quantum secure communications
16:30		Benedikt Hampel - Trap-integrated SNSPDs for trapped-ion qubit state readout
16:50		Filippo Martinelli - A bound state in the continuum platform for integrated SNSPD.
17:10		Kaori Hattori - An optical transition-edge sensor with high energy resolution
17:30 –	Conference dinner	

	Thursday (Nov. 3)	
09:00	Session 11 - Sources IV Chair: Angela Gamouras	Elizabeth Goldsmidt – New materials platforms for quantum memory
09:30		Dima Panna - Andreev reflection in Nb-WS-2-Nb junction
09:50		Shlomi Bouscher - Photon pair correlations in semiconductor-superconductor light sources
10:10		Tobias Heindel – Employing atomically-thin single-photon sources in quantum communication
10:30	Coffee break	
11:00	Session 12 - Applications II Chair: Hojoong Jung	Yoon-Ho Kim - Noise-resistant quantum communications using hyper-entanglement
11:30		Sergei Slussarenko – Quantum channel correction via heralded amplification
11:50		G. Carvacho - QKD and violation of local causality in an urban network using entangled photons generated on demand by a quantum dot.
12:10		Gautam Kavuri - A randomness beacon augmented with device-independent random number generation
12:30		Damián Pitalúa-García – Multiphoton and side-channel attacks in mistrustful quantum cryptography
12:50	Lunch	
14:00	Poster Session II	
14:30		
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15:30	Coffee break	
16:00	Session 13 - Computing & Simulation II Chair: Andrew White	Chao-Yang Lu – Quantum advantage with photons
16:30		Niccolo Somaschi - On-chip DI quantum random number generation with a bright single-photon source in the solid-state
16:50		Mathias Pont - Quantifying n-photon indistinguishability with a cyclic integrated interferometer
17:10		Taira Giordani - Boson sampling in reconfigurable continuously-coupled 3D architectures
17:30		Ilya Kondratyev – Reconstruction of a unitary transformation of an integrated interferometer using coherent light
17:50	(End)	

	Friday (Nov. 4)	
09:00	Session 14 - Detectors V Chair: Angelo Gulinatti	Val Zwiller – Improving superconducting nanowire single photon detectors: where is the limit?
09:30		Boris Korzh - Development of SNSPDs with optimized timing resolution, efficiency, noise and maximum count rate
09:50		Dmitry Morozov - Arrays of superconducting single photon detectors for the mid-infrared wavelengths
10:10		Denis Bandurin - Single-photon detection using high-temperature superconductors
10:30	Coffee break	
11:00	Session 15 - Sources V Chair: Elizabeth Goldschmidt	Joshua Bienfang – A dictionary of single-photon terms to support the emerging quantum industry
11:20		Artur Czerwinski - Quantification of time-bin entanglement by time-resolved photon counting
11:40		Imbert Wang - Single-chip photon pair source with frequency locking and pump rejection
12:00		Lijun Ma - Microring-based photon pair sources in the 4H-SiC-on-insulator platform
12:20	(Closing)	
	Lunch	
14:00	Committee meeting	
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