SCIENTIFIC PROGRAM

Tuesday September 18

8.30-9.00	Registration	
9.00-9.10	Welcome Session I, Chair: Albert Schliesser	
9.10- 9.50	Darrick Chang, ICFO, Barcelona Quantum optics using atomic arrays	
9.50-10.30	Tracy Northup, Universtität Innsbruck Quantum networks and quantum optomechanics with trapped ions	
10.30-11.00	Coffee break	
11.00-11.40	Tobias Kippenberg, EPFL - Ecole Polytechnique Fédérale de Lausanne Quantum effects in interferometric position measurements of nanomechanical oscillators	
11.40-12.00	Sebastian Hofferberth, University of Southern Denmark	
12.00-12.20	Free-Space Quantum Electrodynamics with Rydberg Superatoms Stefan Kröll, Lund University	
	Quantum computing in rare earth ion doped crystals	
12.20-13.30	Lunch	
	Session II, Chair: Nir Rotenberg	
13.40-14.00	David Mason, University of Copenhagen	
14.00-14.40	Quantum Measurement and Control of a Mechanical Resonator Stephanie Wehner, Delft University of Technology	
	Towards a full network stack for a quantum internet	
14.40-15.00	Johannes Borregaard, University of Copenhagen	
15.00-15.20	One-way quantum repeaters with photonic tree clusters Stephan Goetzinger, Friedrich Alexander University	
	Close to perfect coupling of photons to a single molecule in a microcavitiy	
15.30-16.00	Coffee break	
16.00-16.20	Klemens Hammerer, Leibniz Universität, Hannover	
16.20-16.40	Superradiance in continuously pumped and probed Alkali vapors Hannes Pichler, Harvard University	
	Quantum Optimization with arrays of Rydberg Atoms	
16.40-17.20	Hugues de Riedmatten, ICFO Barcelona Linking Hybrid Quantum Nodes with Single Photons	
17.30- 19.00	Poster session	
19.00- 21.30	Dinner	







Wednesday September 19

9.00-9.40	Session III, Chair: Hanna Le Jeannic Mikhail (Misha) Lukin: Harvard University
9.00-9.40	Quantum networks with neutral atoms and atom-like systems
9.40-10.20	Richard Warburton: University of Basel
3.10 10.20	A charge-tunable quantum dot deep in the strong coupling regime of cavity QED
	The same grown and a second a se
10.20-10.50	Coffee break
10.50-11.30	Mete Atatüre: University of Cambridge
44 20 44 50	Optical Control of Quantum-Dot Nuclei: en route to a local register
11.30-11.50	Martijn Wubs: Technical University of Denmark
	Coherent perfect absorption with quantum states of light
11.50-12.20	Group Photo
12.20-13.30	Lunch
	Session IV, Chair: Tim Schröder
13.30-14.10	Klaus Mølmer: University of Aarhus
44404450	Precision measurements – the noisier the better!
14.10-14.50	Florian Marquardt: Max Planck Institute for the Science of Light
14.50-15.10	Neural networks discovering quantum feedback strategies Leonardo Midolo: University of Copenhagen
14.50-15.10	Active routing of single photons from quantum dots in photonic integrated circuits
15.10-15.30	Jürgen Appel: University of Copenhagen
15.10 15.50	Nanofiber-trapped atomic ensemble interfaces: Changes and Challenges
	The state of the s
15.30-16.00	Coffee break
16.00-16.40	Eugene Polzik: University of Copenhagen
	Quantum mechanics in the negative mass reference frame
16.40-17.00	Sumantha Kumar Das: University of Copenhagen
17.00.17.10	Hybrid quantum interfaces for future quantum technologies
17.00-17.10	Closing remarks
17.30- 20.00	Buffet and goodbye
17.30 20.00	pariet and Populate

POSTER PRESENTATIONS

The poster area is located at 3rd Floor in the dining hall. Posters will be displayed during the entire meeting.

No	Name	Title
1	Vitaly Shumeiko,	Integrated acousto-optic transducer for superconducting
	Chalmers University of Technology	qubits
2	Thomas Gisler,	Development of a membrane-based AFM
	ETH Zürich	
3	Luca Dellantonio,	Quantum Nondemolition measurement of mechanical motion
	University of Copenhagen	quanta
4	Moritz Fischer,	Phonon-electron coupling in luminescent defects in hexagonal
	Technical University of Denmark	boron nitride
5	Karsten Bjerrum Dideriksen,	Long-lived non-classical correlations for scalable quantum
	University of Copenhagen	repeaters at room temperature
6	Yeghishe Tsaturyan,	Towards heralded single-phonon state generation of an
	University of Copenhagen	ultracoherent nanomechanical resonator
7	Christoffer Østfeldt,	Towards entanglement in a hybrid negative-mass spin-
	University of Copenhagen	mechanical system
8	Johann Sebastian Kollath-Bönig,	Cavity-based quantum memory for light with
	University of Copenhagen	inhomogeneously coupled atoms
9	Rikizo Ikuta,	Polarization insensitive frequency conversion for an atom-
	Osaka University	photon entanglement distribution via a telecom network
10	Yannick Seis,	Hybrid quantum systems with ultra coherent mechanical
	University of Copenhagen	resonators
11	Massimiliano Rossi,	Sub-SQL measurement and single quantum trajectories of a
	University of Copenhagen	mechanical resonator
12	Emil Zeuthen,	Unconditional steady-state entanglement in macroscopic
	University of Copenhagen	hybrid systems by coherent noise cancellation
13	Tommaso Pregnolato,	Deterministic nanofabrication of quantum photonics devices
	University of Copenhagen	
14	Xiaoyan Zhou,	Reconfigurable photonic integrated circuits on gallium
	University of Copenhagen	arsenide platform for quantum applications
15	Hanna Le Jeannic,	Non-linearities of single quantum dots in photonic waveguides
	University of Copenhagen	
16	Martin Appel,	Towards on-chip entangled photon generation for quantum
	University of Copenhagen	communications applications
17	Thomas Hummel,	Single photons, from generation to application
	University of Copenhagen	