

ErBeStA International Workshop

May 4th & 5th, 2021 (online)
Zoom meeting ID: , Meeting password:

Tuesday, May 4th

08:45		Connect & Informal online chat
09:00 – 09:15		Welcome
09:15 – 10:00	Antoine Browaeys	Collective light scattering in dense atomic ensembles: sub- and super-radiance
10:00 – 10:30	Elisa Will, Philipp Schneeweiss	Trapping single atoms at a WGM resonator, Non-reciprocal Raman amplification of light
10:30 – 11:00	Thomas Pohl	Quantum Nonlinear Optics with Atomic Arrays
11:00 – 11:15		Coffee break
11:15 – 12:00	Anders Sørensen	Dynamics of photon bound states
12:00 – 12:30	Sebastian Hofferberth	N-Photon subtraction in a 1d chain of Rydberg superatoms
12:30 – 14:00		Lunch break
14:00 – 14:45	Christine Silberhorn	Non-linear integrated quantum optics for quantum networks
14:45 – 15:15	Philip Walther	Photonic Quantum Machine Learning
15:15 – 15:30		Coffee break
15:30 – 16:15	Gerhard Rempe	Photon Nondemolition Quantum Networks
16:15 – 16:45	Alexander Szameit	Realizing three-dimensional quantum walks using polarization encoding

Organizers: Arno Rauschenbeutel & P. Schneeweiss

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Wednesday, May 5th

09:00		Connect & Informal online chat
09:15 – 10:00	Wolfram Pernice	Integrated photonic computing
10:00 – 10:30	Sarah Skoff	Quantum Optics with Solid-State Quantum Emitters and Waveguides
10:30 – 11:00	Igor Lesanovsky	Time-crystal phase transition, fluctuations and quantum correlations in an emitter-waveguide system with feedback
11:00 – 11:15		Coffee break
11:15 – 12:00	Darrick Chang	Photonic quantum information processing using atomic arrays
12:00 – 12:30	Lucia Hackermueller	Atoms in an intersected optical waveguide: towards EIT and 4-wave-mixing
12:30 – 14:00		Lunch break
14:00 – 14:45	Janne Ruostekoski	Cooperative quantum optics with atomic arrays: From dipole blockade and non-classical light emission to optical magnetism without metamaterials
14:45 – 15:15	Jan Schlegel	Process technology for the fabrication of passive optical microstructures on chips
15:15 – 15:30		Coffee break
15:30 – 16:15	Charles Adams	Photonic qubits and qutrits using Rydberg polaritons
16:15 – ...		Internal ErBeStA Project Meeting

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