PROGRAM

beyondC

SFB WINTER WORKSHOP 2021

16.02-17.02.2021

ONLINE

Time CET	Tuesday, 16.02
09:30-09:45	Introduction
09:45-10:15	**Chao-Yang Lu** | University of Science and Technology of China *Quantum light source engineering for quantum supremacy*
10:15-10:30	Coffee Break
10:30-11:00	**Gemma De las Cuevas** | University of Innsbruck *Universality everywhere: from spin models to automata and neural networks*
11:00-11:30	Poster Teaser Session (Day 1 posters)
11:30-12:30	Lunch break
12:30-13:30	Poster Session (Day 1 posters)
13:30-14:00	Coffee break
14:00-15:00	Active Bystander Training
15:00-15:30	Coffee break
15:30-16:00	**Norbert Schuch** | University of Vienna *Quantum many-body systems: An entanglement-based perspective*
16:00-16:30	**Barbara Kraus** | University of Innsbruck *On characterization, validation, and verification of quantum devices*
16:30-17:00	Coffee break
17:00-17:30	**Umesh Vazirani** | University of California at Berkeley *Theoretical reflections on quantum supremacy*

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10:00-10:15	Introduction
10:15-10:45	**Wolfgang Dür** | University of Innsbruck *Genuine quantum networks - superposed tasks*
10:45-11:00	Coffee break
11:00-11:30	**Peter Lodahl** | University of Copenhagen *Scaling-up single-photon quantum hardware towards quantum-information processing with a quantum advantage*
11:30-12:00	Poster Teaser Session (Day 2 posters)
12:00-13:00	Lunch break
13:00-14:00	Poster Session (Day 2 posters)
14:00-14:30	Coffee break
14:30-15:00	**Valeria Saggio** | University of Vienna *Experimental quantum speed-up in reinforcement learning agents*
15:00-15:30	**Rob Schoelkopf** | Yale University *Controlling Bosonic Modes in Circuit QED and the Application to Vibronic Molecular Simulations*
15:30-15:45	Closing remarks & Announcement of the Best Poster Award winner