

Program

Monday, 29 November 2021

08:45 – 09:00	Jaqueline Bloch	Welcome words
09:00 – 09:50	Ignacio Cirac	Quantum simulation: Algorithms for finite energies and temperatures
09 :50 – 10:40	Pascale Senellart-Mardon	Quantum optics and quantum thermodynamics with semiconductor quantum dots
10:40 – 11:10	<i>COFFEE BREAK</i>	
11:10 – 12:00	Vahid Sandoghdar	Towards cooperative effects with organic molecules
12:00 – 12:15	Stefan Jorda	About the Wilhelm and Else Heraeus-Foundation
12:15 – 13:00	Postersession I	
13:00	<i>LUNCH BREAK</i>	
14:50 – 15:40	Rick van Bijnen	Entanglement Hamiltonian Tomography
15:40 – 16:30	Iacopo Carusotto	Topological quantum fluids of light
16:30 – 17:00	<i>COFFEE BREAK</i>	
17:00 – 17:20	Alejandro Fainstein	Polaromechanical crystals
17:20 – 18:10	Postersession II	
18:10 – 19:00	Gil Refael	Anomalous exciton transport in response to a uniform, in-plane electric field

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09:00 – 09:50	Atac Imamoglu	Strongly correlated electrons in atomically thin semiconductors
09 :50 – 10:40	Tilman Esslinger	Geometric pumping: self-consistent and Floquet-driven
10:40 – 11:10	<i>COFFEE BREAK</i>	
11:10 – 12:00	Moti Segev	Photonic time-crystals
12:00 – 12:50	Paul Walker	Towards quantum optics with polariton cross-Kerr interaction
13:00	<i>LUNCH BREAK</i>	
14:50 – 15:40	Postersession III	
15:40 – 16:30	Andrea Alberti	Atoms at their quantum speed limit
16:30 – 17:00	<i>COFFEE BREAK</i>	
17:00 – 17:20	Pasquale Scarlino	Ultracompact cavity array for analog quantum simulation
17:20 – 18:10	Peter Zoller	Programmable quantum simulators as `optimal' quantum sensors
18:10 – 19:00	Alicia Kollár	Band engineering for quantum simulation in circuit QED

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Wednesday, 01 December 2021

09:00 – 09:50	Dieter Meschede	From the Stern-Gerlach centenary to optical lattices
09 :50 – 10:40	Eytan Grosfeld	Dynamics and topology in interacting bosonic lattices
10:40 – 11:10	<i>COFFEE BREAK</i>	
11:10 – 12:00	Sven Höfling	Growth-defined lattices for polaritons
12:00 – 12:50	Helgi Sigurdsson	Networks of liquid light
12:50 – 13:00	Marzena Szymanska	Closing words

End of the seminar