

Programme

Monday, 5 September

11:10 *Opening*

Chair: Markus Oberthaler

11:30 Martin Weitz (Bonn)

Bose-Einstein Condensation of Photons and Periodic Potentials for Light

12:10 Philipp Hauke (Innsbruck)

Quantum Fisher information as efficient entanglement witness in many-body systems

12:50 *Lunch*

Chair: Tomaž Prosen

14:30 Fabian Essler (Oxford)

Thermalization and light cones in a model with weak integrability breaking

15:10 Jean-Sébastien Caux (Amsterdam)

Dynamics and relaxation in integrable quantum systems

15:50 *Coffee/Tea*

Chair: Martin Weitz

16:30 Petar Jurcevic (Innsbruck)

Quantum simulations with trapped ions

17:10 *Evening at free disposition*

Tuesday, 6 September

Chair: Alberto Amo

09:00 Andrew Daley (Strathclyde)

Dissipative dynamics and quantum state engineering with ultracold atoms

09:40 Leticia Cugliandolo (Paris)

Thermal quenches in the stochastic Gross-Pitaevskii equation: morphology of the vortex network

10:20 *Coffee/Tea*

Chair: Leticia Cugliandolo

11:10 Cristiano Ciuti (Paris)

Quantum critical phenomena in open lattice systems

11:50 Michiel Wouters (Antwerpen)

Correlations in nonequilibrium polariton quantum fluids

12:30 *Lunch*

Chair: Fabian Essler

- 14:30 Tomaž Prosen (Ljubljana) Exactly solvable open many-body systems
15:10 Tomoki Ozawa (Trento) Synthetic dimensions in ultracold atoms and photonics

15:50 *Coffee/Tea*

Chair: Michiel Wouters

- 16:30 Alberto Amo (Marcoussis) Out of equilibrium condensation in polariton lattices

18:00 *Dinner buffet and Posters*

Wednesday, 7 September

Chair: Andrew Daley

- 09:00 Silvain Nascimbène (Paris) Ultracold Dysprosium gases: a complex system from radiative trapping to many-body physics
09:40 Jens Eisert (Berlin) Out of equilibrium dynamics of ergodic and disordered systems and the quest for quantum supremacy for quantum simulators

10:20 *Coffee/Tea*

Chair: Jens Eisert

- 11:10 Austen Lamacraft (Cambridge) Weak Many Body Localization in the Quantum Random Energy Model
11:50 Henrik Lüschen (Cambridge) Experimental Results on Many-Body Localization

12:30 *Lunch*

Chair: Silvain Nascimbène

- 14:30 Nir Navon (Cambridge) From collective excitations to turbulence in a uniform Bose gas
15:10 Markus Karl (Heidelberg) From Quenches to Critical Dynamics and Non-Thermal Fixed Points in Ultracold Bose Gases

15:50 *Coffee/Tea*

Chair: Ulrich Schneider

- 16:30 Thomas Schweigler (Wien) Investigating ultracold atom systems with higher order correlation functions in and out of equilibrium
17:10 Adrien Signoles (Heidelberg) Non-equilibrium dynamics of long-range interacting Rydberg systems

17:50 *Evening at free disposition*

Chair: Jörg Schmiedmayer

09:00 Eugene Demler (Harvard) Bose and Fermi polarons in ultracold atoms

09:40 Tobias Osborne (Hannover) Simulating quantum fields

10:20 *Coffee/Tea*

Chair: Eugene Demler

11:10 Iacopo Carusotto (Trento) Analog Hawking physics in atomic and optical systems

12:30 *Closing and Departure*