



Workshop on Active Quantum Matter 22 - 23 June 2026

Euler Lecture Hall
Leonardo Building, terrace level

Program

MONDAY 22TH

9:30 - 10:10	Leticia Cugliandolo	Introduction to classical active matter
10:10 - 10:50	Ricard Alert	Hamiltonian description of nonreciprocal interactions
10:50 - 11:20	Coffee Break	
11:20 - 12:00	Marin Bukov	TBA
12:00 - 12:40	Sabine Klapp	Nonreciprocal active systems
12:40 - 14:00	Lunch	
14:00 - 14:40	Sebastian Diehl	Fermion quantum criticality far from equilibrium
14:40 - 15:20	André Eckardt	The impact of quantum statistics on flocking and aster formation in a quantum active Ising model
15:20 - 15:50	Coffee Break	
15:50 - 16:30	Christoph Weber	Discussion on active quantum droplets
16:30 - 17:10	Laurin Brunner	Quantum motility-induced phase separation

TUESDAY 23TH

9:30 - 10:10	Tobias Nadolny	Measurement-induced run-and-tumble motion
10:10 - 10:50	Liliana Arrachea	Heat-to-motion conversion for quantum active matter
10:50 - 11:20	Coffee Break	
11:20 - 12:00	Hartmut Löwen	Engineering active quantum matter
12:00 - 12:40	Andrea Gambassi	TBA
12:40 - 14:00	Lunch	
14:00 - 14:40	Felix von Oppen	Active quantum matter from monitored pure-state dynamics
14:40 - 15:20	Marco Schirò	From Non-Reciprocal to Active Quantum Matter
15:20 - 15:50	Coffee Break	
15:50 - 16:30	Francesca Orsi	Cavity QED with a Fermi gas in a cavity microscope