

DiQuaC

DISSIPATIVE QUANTUM CHAOS

14th - 15th September 2026

School of Innovation (SOI) - Aula CLab S - Via Tommaso Gar 16/2, Trento

Real quantum systems are never perfectly isolated: interactions with their environment profoundly reshape how chaos emerges, spreads, and decays. This workshop explores dissipative quantum chaos along three intertwined threads. The first concerns its fundamental characterization — from non-Hermitian random matrix theory and Lindbladian spectra to insights from holography and strongly interacting models. The second addresses many-body dynamics, asking how driven-dissipative systems thermalize, scramble information, or resist chaos altogether. The third connects theory to experiment, with platforms such as quantum fluids of light and complex photonic media where dissipation is not merely a nuisance but a resource. By bringing these perspectives together, DiQuaC2026 aims to chart a unified picture of chaos in open quantum systems.

INVITED SPEAKERS

- **Lucas Sá**
University of Cambridge, UK
- **Alex Windey**
University of Trento, Italy
- **David Pascual Solis**
University of Trento, Italy
- **Naga Dileep Varikuti**
University of Trento, Italy
- **Pietro Brighi**
University of Vienna, Austria
- **Federico Roccati**
University of Palermo, Italy
- **Stefan Rotter**
TU Wien, Austria
- **Iacopo Carusotto**
CNR-INO, University of Trento, Italy
- **Pietro Pelliconi**
Princeton University
- **Federico Balducci**
MPI-PKS Dresden, Germany
- **Alberto Biella**
CNR-INO, University of Trento, Italy
- **Leonardo Ricci**
University of Trento, Italy
- **Chiara Capecci**
University of Trento, Italy
- **Leela Ganesh Chandra Lakkaraju**
University of Trento, Italy
- **Alessandro Silva**
SISSA, Italy

ORGANISERS

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