

from 15 to 16 September 2025

Quantum Networks and Complexity Workshop

Sapienza University, Rome, Italy

Two days of talks and discussions on
quantum networks and quantum complex systems

Quantum networks are key to realizing the quantum internet, enabling secure communication, distributed computing, and advanced sensing. At the same time, they represent a prime example of large-scale quantum systems, demanding a deeper understanding of quantum complexity and emergent behavior.

This workshop brings together researchers to explore fundamental aspects of quantum network design and complex many-body quantum systems.

Topics include: entanglement distribution, quantum error correction, modular components, such as quantum repeaters and hybrid network architectures, tensor networks and many body methods to large scale quantum systems

Organizers: V. Brosco (CNR-ISC), C. Lupo (Politecnico di Bari), B. van Heck (Università La Sapienza), and P. Verrucchi (CNR-ISC)

Local conference manager: [I. Ritella](#) (CNR-ISC)



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