

# ICQE 2025



International  
Conference on  
**Quantum Energy**  
2025

hosted by



Dipartimento  
di Fisica  
e Astronomia  
Galileo Galilei

an event by



**ICQE**

**Tuesday, 3 June 2025 - Friday, 6 June 2025**

**Centro Culturale Altinate | Padova · Italy**

## Scientific Programme

## **Theme 1. Energy advantage and cost of quantum technology**

This theme addresses the operational energy cost of current and emerging quantum technologies, from both a fundamental and applied point of view. Some of the topics covered by this theme are:

Quantum thermodynamics

Reversible quantum operations

Energy advantage and cost of quantum computing platforms

Thermodynamic role of coherence

Quantum thermal machines