



International Year of Quantum Science and Technology Days

13-14 May 2025, Aula D6, via Archirafi 36, 15:00-17:00

Silvia Casulleras, Diana Chisholm, Andris Erglis, Luca Innocenti, Gabriele Lo Monaco, Federico Roccati (Quantum Theory Group in Palermo)

2025 marks the International Year of Quantum Science and Technology, celebrating the profound impact of quantum mechanics on our understanding of nature and its transformative role in technology. To highlight recent advances in the field, we are organizing a series of seminars covering a range of topics, from the foundations of quantum theory to its applications in computation, optics, and condensed matter. The talks, held by members of the Qunipa group, will explore the interplay between quantum mechanics and gravity, the physics of cold quantum systems, and emerging quantum technologies, offering insights into both fundamental questions and cutting-edge research.

On May 13th, the discussions will cover quantum foundations, quantum information & computation, and quantum gravity, with talks by Diana Chisholm, Luca Innocenti, and Gabriele Lo Monaco.

On May 14th, the focus will shift to quantum optics & waveguide QED, featuring presentations by Federico Roccati, Silvia Casulleras, and Andris Erglis.

Participation in the event will count as a total of CFU hours.

International Year of Quantum Science and Technology Days

2025 is the International Year of Quantum Science and Technology, celebrating quantum mechanics' role in reshaping our understanding of nature and driving technological innovation. To mark the occasion, we are hosting seminars on topics from the foundations of quantum theory to its applications in computing, optics, and condensed matter. Qunipa group members will present talks on quantum gravity, cold atoms, and emerging technologies, highlighting both fundamental questions and the latest research.

13th – 14th May 2025

15:00 – 17:00

Aula D6 | Dipartimento di Fisica e Chimica – Emilio Segrè | UNIPA
Via Archirafi, 36 | Palermo

Participation is **eligible** for CFU crediting.

- May 13th: quantum foundations, quantum information and computation, quantum gravity.
Speakers: Diana Chisholm, Luca Innocenti, Gabriele Lo Monaco.
- May 14th: quantum optics and waveguide QED, quantum levitation, cold quantum matter.
Speakers: Federico Roccati, Silvia Casulleras, Andris Erglis.

   