

Seminar:



Wednesday, April 8th 2026, 15:00 – 17:00

Thursday, April 9th 2026, 11:00 – 13:00

Aula E, DIFC, Via Archirafi 36, DIFC

Title:

Superconducting Quantum Devices for Fundamental Physics and New Technologies

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Keywords: seminar; quantum physics; superconducting circuits.

Abstract:

Superconducting devices serve as a primary hardware platform for quantum technologies, valued for their design flexibility, scalability, and high-coherence architectures. By leveraging macroscopic quantum phenomena, these circuits enable the exploration of extreme light-matter interaction regimes unattainable in natural atomic systems.

This seminar provides a short overview of the building block elements of superconducting quantum electronics, followed by some highlights of recent technological developments, showing how they can be also exploited as playground for fundamental physics experiments.