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Nanofabrication Techniques for Quantum Technologies

3/12/2025 h. 14:30, Via Vito Volterra 62, corpo B, sala multimediale.
Streaming Teams: <https://tinyurl.com/RomaTre-Nanofabrication-2025>



Nanofabrication methods provide a unique opportunity to develop and control solid-state quantum devices at the nanometre scale. This seminar introduces the core lithography, deposition and etching techniques, and demonstrates how choices in the fabrication process influence the feasibility and quality of the resulting devices. These techniques are widely used in physics and electronics, for instance in producing superconducting devices for qubits in quantum computers, in the semiconductor and photonics industries.

Dr. Veronica Granata is a physicist and researcher in tenure-track at the Department of Industrial, Electronic, and Mechanical Engineering of University Roma Tre. She conducts fundamental and applied research in the field of superconducting devices, particularly their fabrication processes. For several years, she has been involved in two INFN projects for the detection of gravitational waves (Virgo and Einstein Telescope), particularly in the development and study of the properties of dielectric coatings for interferometer mirrors. She has participated in many outreach projects and events.

Note: the talk will be held in Italian