

Secondo Congresso Nazionale NQSTI

Thursday, 6 February 2025

Sessioni parallele: Spoke 1-2 A (09:00 - 13:30)

Sessioni parallele: Spoke 1-2 B (09:00 - 13:30)

Sessioni parallele: Spoke 3 (09:00 - 13:30)

Sessioni parallele: Spoke 4 (09:00 - 13:30)

Sessioni parallele: Spoke 5 (09:00 - 13:30)

Sessioni parallele: Spoke 6 - Aula Magna Edificio C (09:00 - 13:30)

-Conveners: Angelo Nucciotti; Giampiero Contestabile

time	[id] title	presenter
09:00	[1] Ferromagnetism in an atomic quantum spin mixture	LAMPORESI, Giacomo
09:15	[2] Atomtronics circuits with ultracold matter	ROATI, Giacomo
09:30	[3] Silicon On Insulator CNOT gate	DAO, Thu Ha
09:45	[4] Spontaneous Parametric Down-Conversion Beaming from a Lithium Niobate Nanostructured Resonator	ZILLI, Attilio
10:00	[5] Quantum Dot intersubband Photodetectors for LWIR photons	VICHI, Stefano
10:15	[6] Optical Forces and Field Dynamics in Gain-Enhanced Plasmonic Nanostructures: Toward Single-Particle Nanolasers	VELTRI, Alessandro
10:30	[7] Employing Nanotechnology: Improving Solar Cell Performance by Integrating Quantum Dots and Gold Nanoparticles	CITRO, Ilaria
10:45	[8] High-Q cavity coupled to a high permittivity dielectric resonator for sensing applications	CASSINESE, Antonio
11:00	coffee break	
11:30	[9] Novel phenomena in oxide two-dimensional electron systems	SALLUZZO, marco
11:45	[10] Anomalous magneto-transport of Dirac-like fermions in a spin-polarized oxide two-dimensional electron system	CHEN, Yu
12:00	[11] Characterization and performances of the first NbSe ₂ qubit	D'ELIA, Alessandro
12:15	[12] Development and Analysis of Transmon Qubits: Design, Simulation, and Characterization	LABRANCA, Danilo
12:30	[13] Development of a Custom Superconducting Qubit Control and Readout System	CAROBENE, Rodolfo

12:45	[14] Integration of overlap Al/Al-Ox/Al Josephson junctions in superconducting quantum circuits: from transmon qubits to novel devices	IRACE, Alessandro
13:00	[15] Controlling and calibrating quantum devices using the open-source framework Qibo	CARRAZZA, Stefano
13:15	[17] Quantum Collective States in Superconducting 5-Qubit Network	RUGGIERO, Berardo

Sessioni parallele: Spoke 7 (09:00 - 13:30)

Sessioni parallele: Spoke 8 (09:00 - 13:30)

Sessioni parallele: Spoke 9 (09:00 - 13:30)