



# Primo Congresso NQSTI

## Tuesday, 16 January 2024

### Sessioni parallele: Spoke 1-2 - RE1 (09:00 - 13:30)

### Sessioni parallele: Spoke 3 - 2.01 (09:00 - 13:30)

-Conveners: Francesco Cataliotti

time	[id] title	presenter
13:00	[11] Oxide 2D-electron gas with engineered function properties for quantum physics and applications	SALLUZZO, Marco
13:15	[12] Atomtronics and spintronics with ultracold quantum gases	DEL PACE, Giulia

### Sessioni parallele: Spoke 4 - RE2 (09:00 - 13:30)

### Sessioni parallele: Spoke 5 - RE3 (09:00 - 13:30)

### Sessioni parallele: Spoke 6-7 - 3.01 (09:00 - 13:30)

-Conveners: Angelo Nucciotti; Andrea Simoni

time	[id] title	presenter
09:00	[1] Monolithic Integration of SiON-based photonic-circuit and silicon single-photon avalanche diode	ACERBI, Fabio
09:15	[3] Spontaneous 3D photonic crystals from ferroelectric domains in KTN:Li	DEL RE, Eugenio
09:30	[4] Silicon Photonic Integrated Circuit for Linear Optics Quantum Computing	DAO, Tu Ha
09:45	[5] Towards broadband quantum-limited superconducting parametric amplifiers for qubit read-out	MANTEGAZZINI, Federica
10:00	[6] Superconducting Qubit Networks with highly entangled quantum phases appearing	LISITSKIY, Mikhail
10:15	[7] From single superconducting components to integrated qubit circuits: Vertical Josephson junctions, low-loss superconducting resonators and high-kinetic inductance films	AHRENS, Felix
10:30	[8] Superconducting Qubit in a 3D Cavity	TOCCI, Simone
10:45	[9] Superconducting qubits control using FPGAs	CAROBENE, Rodolfo
11:00	coffee break	
11:30	[10] Development of transmon qubits for quantum sensing and computing	GIACHERO, Andrea

### Sessioni parallele: Spoke 8 - 1.02-1.03 (09:00 - 13:30)

**Sessioni parallele: Spoke 9 - 1.04-1.05 (09:00 - 13:30)**