Session Program

15–16 Jan 2024

Primo Congresso NQSTI

Sessioni parallele

Sede centrale CNR e Sapienza Università di Roma

Tuesday 16 January

09:00
13:30

Sessioni parallele: Spoke 1-2
Session | **Location:** Edificio A, RE1, Via Castro Lorenziano 2bis

09:00

Sessioni parallele: Spoke 3
Session | **Location:** Edificio D, piano secondo, 2.01, Via Regina Elena 295 | **Convener:** Francesco Cataliotti

13:00–13:15
Oxide 2D-electron gas with engineered function properties for quantum physics and applications

Speaker
Marco Salluzzo

13:15–13:30 Atomtronics and spintronics with ultracold quantum gases
Speaker
Giulia Del Pace

13:30

09:00

Sessioni parallele: Spoke 4
Session | **Location:** Edificio A, RE2, Via Castro Lorenziano 2bis

13:30

09:00

Sessioni parallele: Spoke 5
Session | **Location:** Edificio A, RE3, Via Castro Lorenziano 2bis

13:30

09:00

Sessioni parallele: Spoke 6-7
Session | **Location:** Edificio D, Piano Terzo, 3.01, Via Regina Elena 295 | **Conveners:** Andrea Simoni, Angelo Nucciotti

09:00–09:15
Monolithic Integration of SiON-based photonic-circuit and silicon single-photon avalanche diode

Speaker
Fabio Acerbi

09:15–09:30
Spontaneous 3D photonic crystals from ferroelectric domains in KTN:Li

Speaker
Eugenio Del Re

09:30–09:45
Silicon Photonic Integrated Circuit for Linear Optics Quantum Computing

Speaker
Tu Ha Dao

09:45–10:00
Towards broadband quantum-limited superconducting parametric amplifiers for qubit read-out

Speaker
Federica Mantegazzini

10:00–10:15

Superconducting Qubit Networks with highly entangled quantum phases appearing

Speaker
Mikhail Lisitskiy

10:15–10:30

From single superconducting components to integrated qubit circuits: Vertical Josephson junctions, low-loss superconducting resonators and high-kinetic inductance films

Speaker
Felix Ahrens

10:30–10:45 **Superconducting Qubit in a 3D Cavity**

Speaker
Simone Tocci

10:45–11:00 **Superconducting qubits control using FPGAs**

Speaker
Rodolfo Carobene

11:00–11:30 **coffee break**

11:30–11:45 **Development of transmon qubits for quantum sensing and computing**

Speaker
Andrea Giachero

13:30

09:00

Sessioni parallele: Spoke 8
Session | **Location:** Edificio D, piano primo, 1.02-1.03, Via Regina Elena 295

13:30

09:00

Sessioni parallele: Spoke 9
Session | **Location:** Edificio D, piano primo, 1.04-1.05, Via Regina Elena 295

13:30