

# Poster Session con link ai contributi

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## Poster Session

### Sessione poster unica

Quantum sensing and metrology
POSTER
<b>Monolithic bow-tie cavity for entanglement-enhanced atom interferometry</b> Annalisa Pappalardo
<b>Engineering Germanium-Vacancy Center Arrays in Diamond Nanopillars for Quantum Applications</b> Elena Missale
<b>Fabrication and modeling of solid-state doped CVD graphene photodetectors</b> Gabriele Guerra
<b>From Al/Al-Ox/Al Josephson Junction Development to Frequency-Multiplexed Microwave SU(1,1) Interferometry</b> Alessandro Irace
<b>Engineered GaN Defect Centers for Quantum Emission: Characterization and Photon Extraction Enhancement</b> Antouman Sallah
<b>Analysis of Gain and Stability in Josephson Traveling-Wave Parametric Amplifiers with Non-Sinusoidal Current-Phase Relations</b> Claudio Guarcello
<b>Characterization of Caesium Microcells with high buffer gas pressure</b> Anni Domenics Arias
<b>Quantum Fisher information as a witness of non-Markovianity and criticality in the spin-boson model</b> Daniele Parlato
<b>From EIT linewidth engineering to RF sensitivity optimization in laser-written vapor cells</b> Davide Sera
<b>Monolithic integrated platforms for single-photon SiN-based photonic circuits</b> Fabio Acerbi
<b>TCAD simulations of the SEBAT employed as readout for color centers in diamond.</b> Fabiola Caso
<b>Enhancing Optical TESs performances for PNR-detector array development</b> Federico Malnati
<b>Design and Realization of Nb-based JTWPA</b> Guerino Avallone
<b>Quantum Properties of Twin Beams in Cascaded Quadratic Processes</b> Iolanda Ricciardi
<b>Recent &amp; future CMOS-SPAD developments at FBK</b> Leonardo Gasparini
<b>Enhancing Photon-Number Resolution in Integrated Circuits via Mixed-Efficiency Detector Arrays</b> Leonardo Limongi
<b>Low frequency MEMS used as detector in photoacoustic spectroscopy</b> Mario Siciliani de Cumis
<b>QUAKE-G: Integrating Quantum Gravimetry and Satellite Models for Multiscale Analysis of Earth's Gravity Field Variations</b> Martina Capponi
<b>Interplay between photon condensation and electron-electron interaction in molecular systems</b> Matteo Parisi
<b>Fabrication and Characterization of Overlap Josephson Junctions and CPW Resonators for the Development of Superconducting Quantum Network</b> Muhammad Shoaib
<b>Tunable Quantum Interference in Free Space with a Liquid-Crystal Metagrating</b> Patrick Cameron
<b>Wafer-level fabrication of mm-sized all-glass atomic vapor cells</b> Prajal Chettri
<b>Stationary entanglement of a levitated oscillator with an optical field</b> Quentin Deplano
<b>Photonic gear for ultra-sensitive tilt displacement measurements</b> Rakhi Thomas
<b>Submicrometric ferromagnetic tunnel Josephson junctions for hybrid superconducting quantum architectures</b> Roberta Satariano
<b>Towards on-chip atomic frequency references via two-photon absorption in laser-written vapor cells</b> Ruan Viljoen
<b>Antidot templates for correlated electronic phases in graphene in the extreme quantum limit</b> Simone Restelli

Quantum communication and cryptograph
POSTER
<b>Adaptive Quantum Error Correction for Quantum Communications</b> Andrea Talarico
<b>Characterization of photon-number quantum statistics using a multi-channel superconducting detector</b> Diego Scarano
<b>Poincaré Electro-Optic Transporter for Quantum Logic Applications</b> Eleonora Ballarini
<b>Rényi entropies for finite-size secret-key rate estimation in QKD</b> Gabriele Staffieri, Giuseppe D'Ambruoso
<b>Towards a Josephson Parametric Amplifier Based on Ferromagnetic Tunnel Junction</b> Pegah Darvehi
<b>Multiplexed OAM Hybrid Near-Mid Infrared Link</b> Sareh Golkar
<b>QGram: a Hybrid PQC and QKD Architecture for Quantum-Safe Messaging</b> Ugo Chirico

Quantum algorithms and simulation
POSTER
<b>Finite-size resource scaling for learning quantum phase transitions with fidelity-based support vector machines</b> Aaqib Ali
<b>Threshold Quantum State Tomography on a fully-reconfigurable photonic integrated circuit</b> Eugenio Caruccio
<b>Non-Markovian Dynamics of Two Qubits Coupled via a Finite Transmission Line</b> Fabio Borrelli
<b>Classical and Quantum Optimization for Driving-Behavior Clustering: A Comparative Benchmark</b> Filippo Bonafè
<b>Quantum Logic Programming in Prolog</b> Filippo Vella
<b>A Framework for Federated Quantum Machine Learning for Privacy-preserving Mobile Malware Detection</b> Francesco Mercaldo
<b>Quantum-Enhanced Emotion Recognition and Decision-Making for Social Robotics</b> Giuseppe Palestra

Open problems in quantum science
POSTER
<b>Design of quantum logic gates by optical manipulation of proximized quantum spin Hall edge states</b> Edoardo Latini
<b>Ergotropy and Dynamical Signatures of Many-Body Localization and Discrete Time Crystals in Disordered Heisenberg Chains</b> Francesco Formicola
<b>The Schmid Transition in RSJJ: BKT Universality and transport properties</b> Francesco Giuseppe Capone
<b>Quantum Turing Pattern Selection in a Dissipative Bosonic Chain</b> Giorgia Comparato
<b>Reservoir-induced Quantum Phase Transitions: energy spectra and emission properties</b> Giuseppe Musolino
<b>Spin-Optical Dynamics in Cr3+ Molecular Qubits</b> Lorenzo Sorace
<b>Boltzmann theory of the inverse Edelstein effect in a two-dimensional Rashba gas</b> Mattia Trama
<b>Geometry and restoration of the quantum Mpemba effect beyond weak-coupling regime in the spin-boson model</b> Paolo Chirico
<b>Kibble-Zurek Mechanism in the Open Quantum Rabi Model</b> Tommaso Pirozzi

Quantum knowledge transfer
POSTER
<b>Superconducting detection for Polarization based QKD - SuperPQ</b> Alessia Sannino
<b>QRDT - Quantum Resilience Digital Twin</b> Alfredo Troiano
<b>QUANTIC - A Quantum Machine Learning Algorithm for Hazelnut Variety Recognition</b> Enrico Landolfi
<b>TOWARDS THE DISTEK QUANTUM ACADEMY</b> Marco D'Aquino
<b>Development of Integrated Quantum Single-Photon Sources</b> Nicolò Leone
<b>Quantum Communication and Sensing Application Lab</b> Paolo Comi
<b>The Correlated Photon PAirs Superconducting Camera (CoPPaSC)</b> Riccardo Maria Ienco