

cQED@Tn - "Circuit QED: From Quantum Devices to Analogues on Superconducting Circuits"

lunedì 3 ottobre 2022

Talks: Sensing - Sala Stringa (15:00 - 19:00)

-Coordinatori: Claudio Gatti

time	[id] title	presenter
15:00	[2] Welcome	
15:10	[3] Circuit QED and analogue simulation of quantum impurities	ROCH, Nicolas
16:00	[4] Single Microwave Photon Detection with superconducting quantum circuits	ALBERTINALE, Emanuele
16:50	Coffee Break	
17:10	[5] Single Microwave Photon Detection with a Network of Superconducting Qubits	LISITSKIY, Mikhail
18:00	[24] Testing a Josephson junction as a photon detector with pulsed microwaves measurements	Dr. RETTAROLI, Alessio
18:30	[23] Qub-IT: Quantum sensing with transmon-based itinerant single-photon counter	CORTI, Hervè Atsè

martedì 4 ottobre 2022**Talks: Analogues - Quantum - Sala Stringa (09:00 - 12:30)****-Coordinatori: Iacopo Carusotto**

time	[id] title	presenter
09:00	[7] Circuit-QED in non-euclidean geometries	KOLLAR, Alicia
09:50	Coffee Break	
10:10	[8] Analog and digital simulations with small superconducting quantum circuits	PAROANU, Sorin
11:00	[28] Modeling of the nonlinear dynamics of Josephson Traveling-Wave Parametric Amplifiers	GUARCELLO, Claudio
11:30	[21] Critical Parametric Quantum Sensing	FELICETTI, Simone
12:00	[30] Continuous quantum gate sets and pulse class meta-optimization	PRETI, Francesco

Talks: Quantum - Sala Stringa (16:30 - 19:00)**-Coordinatori: Mikhail Lisitskiy**

time	[id] title	presenter
16:30	[34] Superconducting qubit readout fidelity at the threshold for quantum error correction without a quantum-limited amplifier	TANCREDI, Giovanna
17:00	[22] Effects of Radioactivity on Superconducting Qubits	COLANTONI, Ivan
17:30	[31] Evidence of dual Shapiro steps in a Josephson junctions array	CRESCINI, Nicolo'
18:00	[26] Engineering the speedup of quantum tunneling in Josephson systems via dissipation	RASTELLI, Gianluca

mercoledì 5 ottobre 2022**Talks: Hybrids - Amplifiers - Sala Stringa (09:00 - 12:30)****-Coordinatori: Andrea Vinante**

time	[id] title	presenter
09:00	[14] Hybrid architectures and systems with spins	AFFRONTE, Marco
09:50	Coffee Break	
10:10	[15] Microwave optomechanical systems	KIRCHMAIR, Gerhard
11:00	[29] Cavity magnonics in strong coupling regime – from magnon-polariton hybrid states to perspectives for quantum sensing	LEO, Angelo
11:30	[25] Development of Kinetic Inductance TWPAs with DARTWARS	Dr. FAVERZANI, Marco
12:00	[27] A preliminary study of Traveling-wave Josephson parametric amplifiers (TWJPA)	GRANATA, Veronica

Talks: Amplifiers - Sala Stringa (15:00 - 16:40)**-Coordinatori: Paolo Falferi**

time	[id] title	presenter
15:00	[19] Josephson TWPAs: from reversed-Kerr amplification to squeezing generation	ESPOSITO, Martina
15:50	[20] Josephson metamaterials: properties and fabrication techniques	ENRICO, Emanuele