

# CONGRESS 2022

## PROGRAMMA

09:45	<b>Introduzione Fabio Miletto Granozio (Piano Rilancio CNR, Riorganizzazione scientifica, PNRR)</b>
10:05	Presentazione Valeria Braccini su mission ed organizzazione AT1
10:25	Presentazione Nicola Manca su mission ed organizzazione AT2
10:45	Presentazione Marco Salluzzo su mission ed organizzazione AT3
11:05	Marco Salluzzo (Partenariato Esteso NQSTI)
11:10	<i>Coffee break</i>
11:40	Partecipazione di SPIN alle singole iniziative PNRR
	<u>Fabio Miletto Granozio</u> (Infrastruttura di ricerca NFFA + Centro Nazionale HPC + Partenariato Esteso NEST) <u>Andrea Malagoli</u> (Infrastruttura di ricerca IRIS) <u>Andrea Gerbi</u> (Ecosistema RAISE) <u>Carmela Aruta</u> (Ecosistema Rome Technopole) <u>Alessandro Stroppa</u> (Ecosistema Vitality) <i>Domande finali (10")</i>
12:20	<i>Lunch break</i>
13:20	<b>Presentazioni di Area Tematica 1 (15'+5')</b>
	<u>Alessandro Leveratto</u> : "Superconducting wires for high field applications" <u>Gaia Grimaldi</u> : "Challenges and Opportunities for Applications of Superconductors" <u>Simone Sanna</u> : "Synthesis and characterization of free-standing Samarium doped Ceria membrane for water splitting application and CO2 reduction" <u>Cesare Tresca</u> : "Why mercury is a superconductor"
14:40	<b>Presentazioni di Area Tematica 2 (15'+5')</b>
	<u>Francesco Bisio</u> : "Optical spectroscopy for advanced materials" <u>Filippo Giubileo</u> : "Graphene and 2D materials for nanoelectronics" <u>Alessia Sambri</u> : "PLD-grown superconducting LaAlO <sub>3</sub> /SrTiO <sub>3</sub> micro-membranes" <u>Luca Pellegrino</u> : "Oxide Nanomechanics: materials and devices"
16:00	<b>Presentazioni di Area Tematica 3 (15'+5')</b>
	<u>Roberta Citro</u> : "Quasi-two-dimensional electron gas at the oxide interfaces for topological quantum physics and spin-orbitronics" <u>Martina Esposito</u> : "Two-mode squeezing generation in Josephson Metamaterials" <u>Mikhail Lisitskiy</u> : "Microwave Photon Detection with a Network of Superconducting Qubits: recent results" <u>Paolo Barone</u> : "Collective excitations of 2D materials probed by momentum-resolved electron energy loss spectroscopy"
17:20	<b>Sessione poster con rinfresco serale a buffet</b>
	<ol style="list-style-type: none"> <li><u>Alessandro Leveratto</u> "Thallium-1223 coatings for Future Circular Collider"</li> <li><u>Ruggero Vaglio</u> "Nonlinear surface resistance of High Tc superconductors in high magnetic fields"</li> <li><u>Antonio Leo</u> "Vortex Lattice Instability down to Nanoscale for Superconducting Photon Detection"</li> <li><u>Valeria Braccini</u> "Study of Fe(Se,Te) thin films irradiated with different particles"</li> <li><u>Cesare Tresca</u> "Prediction of ambient-pressure superconductivity in ternary hydride PdCuH<sub>x</sub>"</li> <li><u>Mario Barra, Fabio Chiarella</u> "Ambipolar transport and space-charge accumulation effects in organic heterojunction field-effect transistors"</li> <li><u>Daniele Marré</u> "Mechanical properties of epitaxial EuTiO<sub>3</sub> thin-film MEMS resonators"</li> <li><u>Nicola Manca</u> "Stress Analysis and Q-Factor of Free-Standing (La,Sr)MnO<sub>3</sub> Oxide Resonators"</li> <li><u>Filippo Giubileo</u> "Field emission properties of Ga<sub>2</sub>O<sub>3</sub> nanopillars"</li> <li><u>Filippo Giubileo</u> "Pressure effects on electrical and optical transport in few-layer ReSe<sub>2</sub> FETs"</li> <li><u>Antonio Di Bartolomeo</u> "Graphene/Silicon Schottky diode"</li> <li><u>Antonio Di Bartolomeo</u> "Asymmetric Schottky contacts in bilayer MoS<sub>2</sub> field effect transistors"</li> <li><u>Alessandro Stroppa</u> "Chirality and magnetism in two-dimensional materials"</li> <li><u>Rosalba Fittipaldi</u> "Single Crystal growth at CNR SPIN Salerno"</li> <li><u>Marco Salluzzo</u> "A multiferroic two-dimensional electron gas"</li> <li><u>Marco Salluzzo, Maria D'Antuono</u> "Properties of the spin-polarized 2DEG at the LAO/ETO/STO interface"</li> <li><u>Mikkel Ejrnaes</u> "Single Photon Detection in NbRe and MoSi Superconducting Microstrips"</li> <li><u>Paola Gentile</u> "Curved electronics: geometry-induced effects at the nanoscale"</li> <li><u>Mikhail Lisitskiy</u> "SUPERGALAX EU Project: Highly sensitive detection of single microwave photons with coherent quantum network of superconducting qubits for searching galactic axions"</li> </ol>