

Monday 16/09

Teatro di Ateneo, Building A2
University of Salerno (Fisciano) 

Speaker

Talk

15:00 – 15:30	Opening remarks by the University Rector and the Director of the Physics Department	
15:30 – 16:30	Kosterlitz	(Nobel Laureate) <i>Topological Defects and Phase Transitions</i>
16:30 – 17:00	Coffee Break	
17:00 – 17:30	Demler	<i>Lighting up superconductivity</i>
17:30 – 19:30	Poster Session	

Tuesday 17/09

Grand Hotel Salerno, Lungomare Tafuri 1 (Salerno) 

Speaker

Talk

09:00 – 09:30	Brosco	<i>Quantum devices based on Twisted Cuprate Heterostructures</i>
09:30 – 10:00	Dolcini	<i>Lifshitz transitions and Weyl semimetals from a topological superconductor with a current flow</i>
10:00 – 10:30	Klinovaja	<i>Topological Interlayer Superconductivity in a van der Waals Heterostructure</i>
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Eschrig	<i>Spin Geometric Phases and Josephson Diode Effect</i>
11:30 – 12:00	Giazotto	<i>Quantum heat engines based on Josephson circuits</i>
12:00 – 12:30	Amico	<i>Coherent dynamics in mesoscopic circuits of cold atoms and superconducting networks</i>
12:30 – 13:00	Filatrella	<i>Cold numbers: Superconducting supercomputers, a case for delayed adoption due to the 'sailing-ship effect'?</i>
13:00 – 14:00	Lunch	
14:00 – 14:30	Stornaiuolo	<i>Properties of the multifunctional 2DES at the LaAlO₃/EuTiO₃/SrTiO₃ interface</i>
14:30 – 15:00	Caprara	<i>The Shrinking Fermi liquid theory for strange metallicity in cuprates</i>
15:00 – 15:30	Raimondi	<i>Gauge Invariant Quantum Kinetic Theory of Multiband Electron Systems Applications to Spintronics and Orbitronics</i>
15:30 – 16:00	Ortix	<i>High-orbital moment pairing states in spin-orbit free materials</i>
16:00 – 16:30	Coffee Break	
16:30 – 16:50	Trama	<i>Engineered Josephson diode effect in kinked Rashba nanochannels</i>
16:50 – 17:10	Maccari	<i>Hunting fermion quadruplets: the case of magic-angle twisted bilayer graphene</i>
17:10 – 17:30	Conti	<i>Dynamics of a Chester supersolid in dipolar condensates of interlayer excitons</i>
17:30 – 17:50	Hue	<i>Quantum sensing of dark matter with a phase resolved haloscope</i>
17:50 – 18:10	Salerno	<i>Exploring superfluidity in flat-band Bose systems through quantum geometry</i>
18:10 – 18:30	Venditti	<i>Transport signatures of filamentary superconductivity in low dimensional systems</i>
18:30 – 18:50	Danieli	<i>Non-Abelian Thouless pumping in a two-leg ladder</i>
20:30 – 23:00	Social Dinner – Grand Hotel Salerno	

Wednesday 18/09

Grand Hotel Salerno, Lungomare Tafuri 1 (Salerno) 

Speaker

Talk

09:00 – 09:30	Capone	<i>Novel Mott states and enhanced response via controlled breaking of the SU (N) symmetry</i>
09:30 – 10:00	Avella	<i>Dynamical Projective Operatorial Approach (DPOA) for Pump-Probe Setups in the Ultrafast Regime</i>
10:00 – 10:30	Balaž	<i>Effects of quantum depletion and gradient corrections on the critical atom number of dipolar droplets</i>
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Furutani	<i>Berezinskii-Kosterlitz-Thouless transition in a two-dimensional binary Bose mixture</i>
11:30 – 12:00	Galli	<i>Simulating the dynamics of open quantum systems via the time dependent Variational Monte Carlo method</i>
12:00 – 12:30	Pilati	<i>Combining deep learning with quantum Monte Carlo algorithms and with density functional theory</i>
12:30 – 13:00	Ardila	<i>Bose and Fermi Polarons in Atom - Ion Hybrid Systems</i>
13:00 – 14:00	Lunch	
14:00 – 14:30	Ambrosetti	<i>Superfluidity meets the solid state - towards frictionless molecular transport in narrow nanotubes</i>
14:30 – 15:00	Burchianti	<i>Quantum droplets in a bosonic mixture of 41K and 87Rb</i>
15:00 – 15:30	Boronat	<i>Beyond universality in Fermi and Bose gases</i>
15:30 – 16:00	Giorgini	<i>Bose mixtures at finite temperature: magnetism and condensation phenomena</i>
16:00 – 16:30	Vignolo	<i>Symmetry oscillations in strongly interacting one-dimensional mixtures</i>
16:30 – 17:00	Coffee Break	
17:00 – 17:30	Presentation of the "Women 4 Quantum" (W4Q) manifesto	
17:30 – 18:00	Closing Remarks by the Organizers and Free Discussion	

Poster Session

Monday 16/09
from 18:00 to 19:30

Teatro di Ateneo, Building A2
University of Salerno (Fisciano) 

Capecelatro	<i>Andreev spin-noise detector</i>
Colangelo	<i>Magnetron Sputtered Superconducting W75Re25 Thin Films: Influence of N₂ Gas in the Deposition Process</i>
De Stefano	<i>Temperature-dependent photoconductivity in two-dimensional MoS₂ transistors</i>
Durante	<i>A Josephson phase battery</i>
Durante	<i>Van der Waals BP/MoS₂ Heterostructures: Electrical and Optoelectronic Characterization</i>
Eskandari-asl	<i>Dynamical Projective Operatorial Approach (DPOA) for Pump-Probe Setups in the Ultrafast Regime</i>
Fittipaldi	<i>Crystal growth, superconductivity and Hall effect of Bi-Pd alloys</i>
Granata	<i>Toward the optimization of SiO₂ and TiO₂ -based metamaterials: Morphological, Structural, and Optical characterization</i>
Hue	<i>Observation of microsecond-lived quantum states in a carbon-based circuit</i>
Iannotti	<i>Quantum resource variational principle</i>
Jasser	<i>Chaos, Entanglement and Stabilizer Entropy in SYK model</i>
Maiellaro	<i>Local dynamics and detection of topology in spin-1 chains</i>
Midei	<i>Predictive power of BKT theory based on Renormalization Group for the BCS-BEC crossover in 2D superconductors</i>
Nunziante	<i>Topological Phase Diagram of an Interacting Kitaev Chain: Mean Field versus DMRG Study</i>
Shokri	<i>Electrical transport studies of van der Waals cuprate superconductors</i>
Troisi	<i>QUEnch mechanisms Study In supercONductors for Safe energy and energy Saving: the QUESTIONS project</i>
Velasco	<i>Pairing amplification induced by nonadiabatic effects on the electron-phonon interaction throughout the BCS-BEC crossover</i>