

**MC28 Ultrastrong coupling for quantum science and technologies**

Thursday, 5 September, afternoon

Chair: Gian Marcello Andolina

Room:

Hours	ID	Name	Type	Title
16h00-16h30		Alba Torras-Coloma	Invited	Non-perturbative ultrastrong couplings in superconducting quantum circuits
16h30-17h00	13852	L. Giannelli	Invited	Detection of Virtual Photons and Adiabatic Operations in UltraStrongly Coupled Quantum Systems
17h00-17h30	13375	Zeno Bacciconi	Invited	Theory of fractional Quantum Hall liquids coupled to quantum light and emergent graviton polaritons
17h30-17h45	13043	Miguel Carrera Belo	Oral	Gate-tunable phase transition in a bosonic Su-Schrieffer-Heeger chain

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Friday, 6 September, morning

Chair: Giuseppe Falci

Room:

Hours	ID	Name	Type	Title
09h00-09h30	12807	H. P. Ojeda Collado	Invited	Equilibrium parametric amplification in Raman-cavity hybrids
09h30-10h00	12359	D. Ferraro	Invited	Boosting energy transfer between quantum devices through spectrum engineering in the dissipative ultrastrong coupling regime
10h00-10h30		R. Stassi	Invited	Unveiling and veiling an entangled light-matter quantum state from the vacuum
10h30-10h45	13698	Daniele Lamberto	Oral	Quantum Phase Transitions in Many-Dipole Light-Matter Systems
10h45-11h00	13700	Samuel Napoli	Oral	Comparison of cavity and circuit QED spectra in the ultrastrong coupling regime