

COMA-RUGA 2026 | International Workshop on Microwave Research and Applications

Hotel Estival Maramar | Avinguda Brisamar, 44 - 55, 43880 Coma-ruga, Tarragona

Tentative Schedule

Time	Sunday, June 28 th	Monday, June 29 th	Tuesday, June 30 th	Wednesday, July 1 st	Thursday, July 2 nd	Friday, July 3 rd	Time (Friday)	
9:30 - 10:10		O1.1 <i>KEYNOTE SPEAKER</i> José María De Teresa Applications of Focused Electron and Ion Beams for nanofabrication	O2.1 <i>KEYNOTE SPEAKER</i> Eugene Chudnovsky Microscopic Quantum Tunneling in Magnets and Superconductors (The Legacy of Tony Leggett)	O3.1 <i>KEYNOTE SPEAKER</i> Ping Sheng Using Electrical Dipole Resonance to Generate Broad-Band Microwave Absorption	O4.1 <i>KEYNOTE SPEAKER</i> David Citrin Terahertz Imaging of Art and Archeology	O5.1 <i>KEYNOTE SPEAKER</i> Luis Viña Color centers in hexagonal boron nitride as quantum light sources at room temperature	9:30 - 10:10	
10:10 - 10:40		O1.2 Xavier Obradors Forty years of HTc: the long and winding road to high-current conductors	O2.2 Gloria Platero Quantum information transfer through atomic arrays	O3.2 Pablo Cerrato Serrano Enhanced Magnet Damping via Acoustic Fuzzy- μ -Spin Resonances in YIG/GGG Bilayers	O4.2 Hiro Nakamura The photostriction in van der Waals multilayers	O5.2 Enrique del Barco Adiabatic Spintronics with Topological Magnetic Insulators	10:10 - 10:40	
10:40 - 11:00	COFFEE BREAK						10:40 - 11:00	
11:00 - 11:30		O1.3 Rosa Lopez Heat and charge transport in interacting nanoconductors driven by time-modulated temperature	O2.3 Nicolas Zapata Quantum Information Processing with Superconducting Microwave Electronics	POSTER SESSION (extended coffee break)	O4.3 Salvador Barraza Lopez Tunable terahertz opto-mechanics of MoS ₂ bilayers with homogeneous in-plane strain	O5.3 Irfan Siddiqi Simulating New Phases of Quantum Matter with Superconducting Qubits	11:00 - 11:30	
11:30 - 12:00		O1.4 Oleksandr Malysukin Subwavelength Microwave and Milliwave Resonators as a Platform for Next-Generation Multifunctional Sensors	O2.4 Eran Ginossar Symmetry-protected states of interacting qubits in superconducting quantum circuits	O3.4 Vladimir Kostishin The Effect of Steering Modes on Electromagnetic and Radio-Absorbing Properties of Polycrystalline Ferrites L0.6Fe1.598Ti0.52Ni0.2M	O4.4 Viktor Rindert High Frequency Magnetic Resonance using Terahertz Generalized Spectroscopic Ellipsometry	O5.4 Anna Castellvi i Picanyol Non-Resonant Magnetoacoustic Waves Imaged by Spinoptoelectronic MIMs	11:30 - 12:00	
12:00 - 12:30		O1.5 Kai-Da Xu A Waveguide Bandpass Filter Using Periodic Cylindrical Cavities and Double Ridge in D-Band	O2.5 Dario González Towards single spin magnetic spectroscopy with superconducting quantum circuits	O3.5 Jaume Calvo de la Rosa Investigating novel heterogeneous bilayer structures for broadband radar absorption	O4.5 Yan Sun Temperature-Dependent Terahertz Electro-dynamics and Coupled Electronic-Lattice Modes in ToNiS ₂	O5.5 Quim Badosa Felip Surface Acoustic Waves assisted manipulation of spin and orbital currents in ferromagnetic/light-metal bilayers	12:00 - 12:30	
12:30 - 16:00	LUNCH						O5.6 Pol Forn-Díaz Tony Leggett's influence on superconducting qubits: Coherent Quantum Dynamics and Macroscopic Realism	12:30 - 13:00
						CLOSING REMARKS	13:00 - 13:15	
16:00 - 16:40		O1.6 <i>KEYNOTE SPEAKER</i> Fernando Sols Remembering Tony Leggett	O2.6 <i>KEYNOTE SPEAKER</i> Alberto Amo Lattice quantum electrodynamics with molecular ensembles in microcavities	O3.6 <i>KEYNOTE SPEAKER</i> Dmitry Garanin Skyrmion Cyclotron Resonance in Ferrimagnets	O4.6 <i>KEYNOTE SPEAKER</i> Vincent Harris Impedance-Engineered Magneto-electrics: A New Paradigm in RF Materials Impedance Matching to Free Space			
16:40 - 17:10		O1.7 Joan Manel Hernández Macroscopic Quantum Phenomena in Magnets: Experimental Developments Inspired by Leggett and Chudnovsky	O2.7 Álvaro Gómez León Topological properties of discrete step-quantum walks	O3.7 David Citrin Terahertz Non-destructive Evaluation of Advanced Microelectronics Packaging	O4.7 Vladimir Kostishin Magnetic Polymer Radio-Absorbing Composites with Polycrystalline Ferrite (MnZrCo ₂) _{1-x} Fe ₂ O ₄ filler			
17:10 - 17:30	COFFEE BREAK							
17:30 - 18:00		O1.8 Milena Grifoni Spin-boson models under strong ac-driving	O2.8 Alexandre Buzdin Circularly Polarized Terahertz Radiation as a Mechanism for the Control and Manipulation of Quantum States in Superconducting Ring	O3.8 Iran Bahena An Equivalent Circuit Approach for Characterizing Magneto-electric Composites with Microwave Resonant Sensors	O4.8 Marc Vazquez-Amezcua Free-space EM characterization measurements with temperature control and machine learning implementation			
18:00 - 18:30		O1.9 Kirill Fedorov Sharing secrets in superconducting quantum networks	O2.9 Fernando Sols Hawking time crystals	O3.9 Fernando Luis Circuit quantum electrodynamics near spin clock transitions	O4.9 Pilar Marin Wireless Multi-Parametric Sensing of Hydrogel Scaffolds via Giant Magnetoimpedance in Amorphous Magnetic Microwires			
18:30 - 19:00		O1.10 Stefano Bosco Quantum computing with magnetic systems	O2.10 Haq Nawaz Novel Monostatic Antennas with High Interport Isolation for In-band Full Duplex Applications	O3.10 Dario Arena Spin Dynamics in Ferrimagnetic Insulators Across Time Scale Length Scales	O4.10 Antoni Garcia-Santiago Copper-based ferrite nanocomposites for microwave absorption in the GHz range			
	Welcome party (19:30 Hotel Estival Maramar)					Conference dinner (20:30 at Cara al Mar restaurant)		

Grey talks are included into the Special Session in honor of Tony Leggett