



21-25th April 2024

#SuperQumap

European School on Superconductivity and Magnetism in Quantum Materials.

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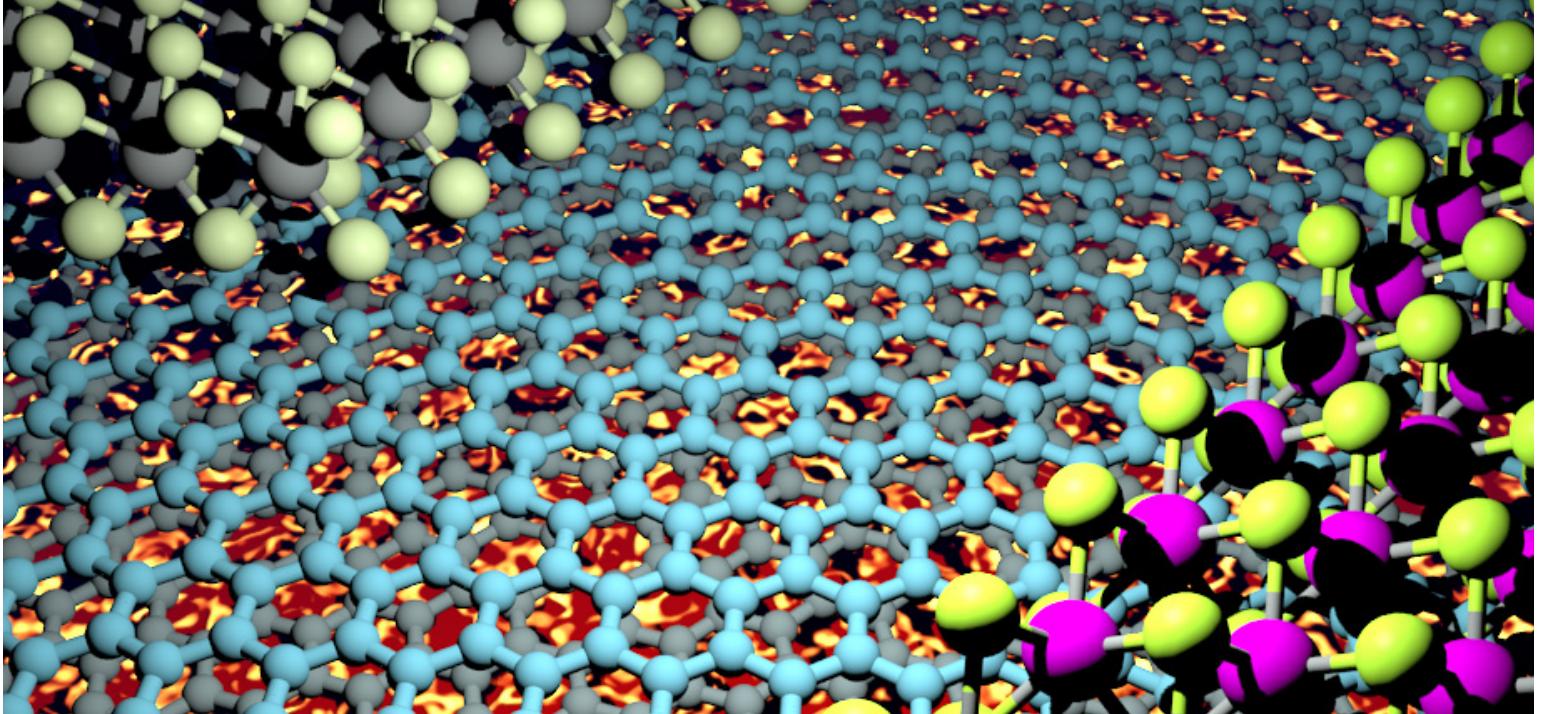
#ESSM24

SUNDAY 21 st		
15h00	Arrival and Registration	
20h00	Dinner	
MONDAY 22 nd		
08h45	José J. BALDOVÍ- ICMol, University of Valencia Hermann SUDEROW- University Autónoma de Madrid	<i>Opening of the 1st European School on Superconductivity and Magnetism in Quantum Materials</i>
09h00	Jairo SINOVA- Johannes Gutenberg Uni. Mainz (DE)	<i>Introduction to altermagnetism and spin symmetries</i>
11h00	Coffee break	
11h30	Marcos H.D. GUIMARÃES- University of Groningen (NL)	<i>Introduction to 2D magnetic materials and manipulation of their magnetization</i>
13h30	Lunch	
15h00	Iurii TIMROV- Paul Scherrer Institut (CH)	<i>Modeling magnetic materials using advanced DFT functionals: Hubbard, hybrids, and meta-GGA</i>
17h00	Coffee break	
17h30	Annica BLACK-SCHAFFER- Uppsala University (SE)	<i>Fundamentals of topological superconductivity</i>
20h00	Dinner	
21h30	Poster Session I	
TUESDAY 23 rd		
09h00	Milorad MILOSEVIC- University of Antwerpen (BE)	<i>Ginzburg-Landau theory of superconductivity: from basics to applications</i>
11h00	Coffee break	
11h30	Dieter KOELLE- University of Tübingen (DE)	<i>Josephson junctions and superconducting quantum interference devices (SQUIDs)</i>
13h30	Lunch	
15h00	Elena HASSINGER- TU Dresden Technical University (DE)	<i>Thermodynamic and transport experiments on the ground state of strongly correlated electron systems</i>
17h00	Coffee break	
17h30	Aline RAMIRES- Paul Scherrer Institut (CH)	<i>Standard classification of superconducting order parameters from the point group perspective</i>
20h00	Dinner	
21h30	Poster Session II	
WEDNESDAY 24 th		
09h00	Eugenio CORONADO- ICMol, University of Valencia (ES)	<i>2D Magnetic heterostructures: from twisted magnets to smart molecular/2D heterostructures</i>
09h30	Yulia MAXIMENKO- Colorado State University (US)	<i>Quantifying unconventional magnetism in devices using scanning tunneling microscopy</i>
	Núria ALCALDE-HERRAIZ- Chalmers University of Technology (SE)	<i>Engineering underdoped CuO₂ nanoribbons in nn-thick a-axis YBa₂Cu₃O_{7-δ} films</i>
	Jazmín ARAGÓN SÁNCHEZ- Università degli Studi di Roma Tor Vergata (IT)	<i>Structural and electronic characterization of atomic defects in FeSe_{1-x}S_x superconductor: STM and DFT study</i>
10h00 (12'+3')	Javier CORRAL-SERTAL- CiQUS, University of Santiago de Compostela (ES)	<i>Temperature and Thickness Dependence of the Thermal Conductivity in 2D Ferromagnet Fe₃GeTe₂</i>
	Yelko DEL CASTILLO- Int. Iberian Laboratory (PT)	<i>Probing spin fractionalization with absolute magnetometry ESR-STM</i>

11h00	<i>Coffee break</i>
11h30	Peter LILJEROTH- Aalto University (FI) <i>Visualizing designer quantum states in van der Waals heterostructures</i>
13h30	<i>Lunch</i>
15h00	Discussions and networking
21h00	<i>Dinner</i>

THURSDAY 25th		
09h00	Alfredo LEVY YEYATI- University Autónoma de Madrid (ES)	<i>Mesoscopic superconductivity: From Andreev transport to Andreev qubits</i>
11h00	<i>Coffee break</i>	
	Alessia GARIBALDI- Chalmers University of Technology (SE)	<i>Ex-situ techniques for grain boundary-based Josephson junction optimization</i>
	Konrad NOROWSKI- Polish Academy of Sciences (PL)	<i>Quantum thermodynamics with a single superconducting vortex</i>
	Meike PFEIFFER- Dresden University of Technology (DE)	<i>Resistivity and heat capacity studies under hydrostatic pressure in the locally non-centrosymmetric superconductor CeRh₂As₂</i>
11h30 (12'+3')	Varun RAJEEV PAVIZHAKUMARI- Technical University of Denmark (DK)	<i>Evaluating the critical temperatures for ferromagnetic order in solids: beyond the random phase approximation</i>
	Johanne Bratland TJERNSHAUGEN- Norwegian University of Science and Technology (NO)	<i>Superconducting phase diagram and spin diode effect via spin accumulation</i>
	Beatriz VINA-BAUSA- University Autónoma of Madrid (ES)	<i>Controlling magnetic interactions between S=1/2 spins at unusually large distances</i>
	Diego LÓPEZ-ALCALÁ- ICMol, University of Valencia (ES)	<i>Exploring magnetic insulator proximity effect in 2D biphenylene network from first-principles calculations</i>
13h30	<i>Lunch</i>	
15h00	Departure	

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thanks for coming!

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