

MC25 Electronic and magnetic excitations in 2D materials I

Thursday, 5 September, morning

Chair: Alejandro Molina Sanchez

Room:

Hours	ID	Name	Type	Title
10h30-11h00	13516	Samir Lounis	Invited	Topological magnetism in 2D materials: from proximity-induced effects to kagomerization
11h00-11h30	12915	Alexander Mook	Invited	Topological Magnetic Excitations in 2D Materials
11h30-11h45	13785	Mar Ferri-Cortés	Oral	Exploring a star lattice Hamiltonian with Neural Network Quantum States
11h45-12h00	13721	Kira Junghans	Oral	Fock-Darwin states of an artificial atom assembled bottom-up on a surface with high spin-orbit coupling
12h00-12h30	13515	Alex Khajetoorians	Invited	A quantum simulator to study lower dimensional electronic structure using artificial atoms on the surface of a semiconductor
12h30-12h45	13402	L. Martinelli	Oral	Quantum fluctuations of charge order in a detwinned state of a cuprate superconductor induced by uniaxial strain
12h45-13h00	13539	V. V. Palyulin	Oral	How mobile-immobile model explains negative diffusion of excitons and other non-conventional effects

MC25 Electronic and magnetic excitations in 2D materials II

Friday, 6 September, morning

Chair:

Room:

Hours	ID	Name	Type	Title
9h00-9h30	13426	Nicolas Ubrig	Invited	Control of the Electronic and Magnetic Properties of the 2D Magnetic Semiconductor CrPS ₄
9h30-10h00	13289	Khalil Zakeri	Invited	Terahertz magnon dynamics in classical 2D magnets in the presence of a large spin-orbit coupling
10h00-10h15	13870	Gonzalo R-Carracedo	Oral	Molecular/2D hybrid heterostructures for magnonic applications
10h15-10h30	12843	John Mangeri	Oral	Linear magnetoelectricity in the Zintl phase pnictides (Ba, Ca, Sr)Mn ₂ (P, As, Sb) ₂ from first principles calculations



10h30-10h45	13029	Sourav Dey	Oral	Tailoring magnetism in a 2D Van der Waals material with a chemical approach for magnonic applications
10h45-11h00	12755	Riccardo Rurali	Oral	Dynamical tuning of the thermal conductivity on 2D materials via magnetophononic and photophononic effects
11h00-11h15	13377	František Karlický	Oral	Excitonic Effects in Mxenes
11h15-11h30	13632	Jan Philips Staller	Oral	2D Ferroelectricity in d1T-MoTe2: Dynamic stability, phase transition and temperature evolution.

Poster Session**Thursday, 5 September**

ID	Name	Title
13681	André Marinho	Ab-initio and tight-binding electronic properties of Selenene
13552	Theo Grace	Motion of emergent gauge flux pairs in a bilayer quantum spin liquid
12719	Daniel Sousa	Berry: A code for the differentiation of Bloch wavefunctions from DFT calculations