

MC 35 Interaction effects in systems with higher order Van Hove singularities and flat bands I

Monday, 2 September, morning

Chair: Joseph Betouras

Room:

Hours	ID	Name	Type	Title
10h30		Andrei Bernevig	Invited	Integer and Fractional Chern insulators exhibiting integer and fractional quantum Hall effects in MoTe ₂ and rhombohedral multilayer graphene
11h00	14740	Raquel Queiroz	Invited	Topologically protected flatness in moiré heterostructures
11h30	13502	Antonio D S Santana	Oral	Softening of a flat phonon mode in the kagome ScV ₆ Sn ₆
11h45	12837	A Chandrasekaran	Oral	Interplay of flat bands and higher order Van Hove singularities in Kagome metals
12h00	15668	Sid Parameswaran	Invited	Spiral Orders from Textured Exciton Insulators in Moiré Materials
12h30	15310	Nicolas Regnault	Invited	Fractional Topological Insulators at $\nu = -4/3$ in Twisted Transition Metal Dichalcogenides

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Monday, 2 September, afternoon

Chair: Eduardo Castro

Room:

Hours	ID	Name	Type	Title
16h00	15133	Bartomeu Monserrat	Invited	Band degeneracies beyond electrons
16h30	15667	Sebastiano Peotta	Invited	Superconductivity and quasiparticle localization in flat bands
17h00	13738	Eeli Lamponen	Oral	Superconductivity near flat bands and van Hove singularities with resonating valence bond pairing
17h15	12898	Krzysztof Piotr Wojcik	Oral	Interactions and high-order Van Hove singularities: single impurities and lattices
17h30	14832	Haoyu Hu	Invited	Superconductivity and Kondo phase in twisted bilayer graphene



MC 35 Interaction effects in systems with higher order Van Hove singularities and flat bands III

Tuesday, 3 September, morning

Chair: Peter Wahl

Room:

Hours	ID	Name	Type	Title
10h30	12828	Hillary Noad	Invited	Thermodynamic measurements across a uniaxial-pressure-tuned Lifshitz transition in Sr ₂ RuO ₄
11h00	12654	David Perkins	Oral	Scattering rate of interacting electrons in the presence of flat-bands and van Hove singularities
11h15	13333	Carolina Marques	Invited	Exchange interaction and magnetostriction of the surface layer of Sr ₄ Ru ₃ O ₁₀
11h45	12810	Lewis Burke	Oral	Dark to bright excitons & trions in InSe with Mexican hat energy dispersion
12h00	12551	Federico Mazzolla	Invited	Signatures of a surface spin-orbital chiral metal