

Correlations and Topology in Moiré Materials

Monte Verità, Ascona, Switzerland, 27 – 30 July 2025

Monday 28 July 2025

8:45	Opening remarks
9:00	Mitali Banerjee - <i>tbd</i>
9:40	Marta Perego - <i>Experimental detection of vortices in magic-angle graphene</i>
11:00	Antoine Georges - <i>Moiré systems</i>
11:40	Johannes Hofmann - <i>Charge neutrality phase diagram of twisted bilayer graphene from sign-free Monte Carlo simulations</i>
14:00	Leni Bascones - <i>Heavy Fermions and Cascades in Twisted Bilayer Graphene: Recent Results</i>
14:40	Lorenzo Crippa - <i>Dynamical correlations and order in magic-angle twisted bilayer graphene</i>
16:00	Discussion session
18:00	Poster session

Tuesday 29 July 2025

8:45	Opening remarks
9:00	Xiaodong Xu - <i>tbd</i>
9:40	Valentin Crépel - <i>Robust prediction of moiré material topology</i>
11:00	Abhay Pasupathy - <i>tbd</i>

11:40	Bo Yang - <i>Geometric excitations of topological quantum fluids in moire flat bands</i>
14:00	Sid Parameswaran - <i>Theory and phenomenology of spiral orders and their doped descendants in TBG</i>
14:40	Yves Hon Kwan - <i>Strongly-interacting topological phases in rhombohedral graphene/hBN superlattices</i>
15:00	Glenn Wagner - <i>Fractional topological insulators in twisted MoTe2</i>
16:00	Ryan Lee - <i>Imaging Quantum Textures in Magic Angle Graphene</i>
16:20	Yiwen Liu - <i>Visualizing inter-valley coherent states in rhombohedral trilayer graphene</i>
16:40	Discussion session
18:00	Poster session

Wednesday 30 July 2025

9:00	Dima Efetov - <i>tbd</i>
9:40	Hryhoriy Polshyn - <i>Quantum anomalous Hall states and isospin-polarized metals in twisted monolayer-bilayer graphene</i>
10:00	Louk Rademaker - <i>Two Heavy Metal Mysteries</i>
11:00	Dan Mao - <i>Low-energy Optical Sum-rules</i>
11:40	Malte Rösner - <i>Microscopic Many-Body Models for Correlated Moiré Materials from Multi-Tier Ab Initio Downfolding Approaches</i>
14:00	Atac Imamoglu - <i>tbd</i>
14:40	Tomasz Smolenski - <i>Optical control of correlated magnetism in moiré materials</i>
15:15	<i>The free shuttle to Locarno station will run from 3:15pm to 7pm (every 40 minutes).</i>

FINAL SCHEDULE

	Sunday	Monday	Tuesday	Wednesday
7:30-8:45		Breakfast	Breakfast	Breakfast
8:45-9:00		Opening Remarks		
9:00-9:40		Banerjee	Xu	Efetov
9:40-10:00		Perego	Crepel	Polshyn
10:00-10:20		Coffee Break	Coffee Break	Rademaker
10:20-11:00				Coffee Break
11:00-11:40		Georges	Pasupathy	Mao
11:40-12:00		Hofmann	Yang	Rösner
12:00-14:00		Lunch	Lunch	Lunch
14:00-14:40		Bascones	Parameswaran	Imamoglu
14:40-15:00		Crippa	Kwan	Smolenski
15:00-15:20	The free shuttle from Locarno station will run from 3pm to 7pm (every 40 minutes).	Coffee Break	Wagner	The free shuttle to Locarno station will run from 3:15pm to 7pm (every 40 minutes).
15:20-16:00			Coffee Break	
16:00-16:20		Discussion	Lee	
16:20-16:40			Liu	
16:40-17:00			Discussion	
17:00-18:00	Welcome Drinks	Poster session	Poster session	
18:00-19:00				
19:00-20:30	Dinner	Dinner	Dinner	