

Topology and Geometry

855th WE. Heraeus Seminar

March 29th – April 2nd | Hamburg, Germany

Sunday, March 29th

12:00 Registration in PierDREI Hotel Lobby	15:15 Meet in PierDREI Hotel Lobby	15:30 Walk to "Flusi," Hamburg's floating church	16:00 Opening Talk by Jörg Schmalian	17:00 Pick Up by Barge 17:30 Departure	19:00 Arrive at Övelgönne & Hoppe's	21:00 End of dinner, return to PierDREI
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Time	Monday, March 30th	Tuesday, March 31st	Wednesday, April 1st	Thursday, April 2nd
08:00	Breakfast in PierDREI Hotel – Talks at Event Space: Digital Hub			
09:00	Talk Binghai Yan	Talk Marco Polini	Talk Xavier Roy	Talk Jennifer Coulter
10:00	Talk Lilia S. Xie	Talk Piet Brouwer	Talk Roni Ilan	Talk Felix von Oppen
11:00	Poster Discussion	Poster Discussion	Poster Discussion	Talk Yaojia Wang
12:30	Lunch Served in Event Space: Digital Hub			Closing Remarks & Conclusion Departure
14:00	Talk Raquel Queiroz	Talk Nishchal Verma	Talk Chunyu Guo	
15:00	Talk Quansheng Wu	Talk Johannes Hofmann	Poster Flash	
16:00	Coffee Break & leaving for MPI	Coffee Break	Poster Session	
17:00	Welcome to Max Planck Institute	Discussion Session	Poster Session	
18:30	Dinner at Institute & Return to Hotel	Dinner (free for you to plan)	18:00 Heraeus Conference Dinner on Rickmer Rickmers ship	



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List of Talk Titles

Monday, March 30th

Binghai Yan:	Probing the hidden symmetry by quantum geometry-induced nonlinear transport
Lilia S. Xie:	Superlattice domain effects on transport in a noncollinear antiferromagnet
Raquel Queiroz:	Quantum geometry as a window into bonding and transport in metals
Quansheng Wu:	New Paradigm: Magnetotransport + First-Principles → Electronic-Structure Characterization

Tuesday, March 31st

Marco Polini:	Polariton-induced superconductivity in two-dimensional correlated metals
Piet Brouwer:	Spin-polarized and topological superconductivity in a chiral antiferromagnet
Nishchhal Verma:	Identifying quantum geometric effects in transport
Johannes Hofmann:	Long-lived modes and hydrodynamic transport in interaction-dominated Fermi liquids

Wednesday, April 1st

Xavier Roy:	Quantum complexity in simple materials
Roni Ilan:	Geometry and topology of free and bound excitons
Chunyu Guo:	Many-body quantum coherence in AV3Sb5 Kagome metals

Thursday, April 2nd

Jennifer Coulter:	New Frontiers in Electrical, Thermal, and Thermoelectric Transport Predictions
Felix von Oppen:	Exciton Condensates in quantizing magnetic fields
Yaojia Wang:	Supercurrent interference and its transfer in a kagome superconductor

Important Addresses in Hamburg

- **PierDREI Hotel** Am Sandtorkai 46, 20457 Hamburg
- **Digital Hub / Event Space** Workshop Rooms (4th Floor) & Krähenest (5th Floor), Am Sandtorkai 32, 20457 Hamburg
- **Flussschifferkirche** Hohe Brücke 2, 20459 Hamburg
- **Hoppe's Restaurant** Övelgönne 6, 22605 Hamburg
- **Rickmer Rickmers** St. Pauli-Landungsbrücken 1a, 20459 Hamburg