# Electronic Order in Kagome Metals 824th WE. Heraeus Seminar

December 8 - 12, 2024

Hamburg, Germany

Sunday, December 8th 14:00 15:45 16:00 16:30 17:10 17:30 19:10 22:00 Registration Meet in Walk to Opening Talk Heraeus Talk Pickup by End of dinner, Arrive to in PierDREI "Flusi," PierDREI by Stephen by Stefan Meyer Barge Övelgönne return to Hotel Lobby Hotel Lobby Hamburg's Wilson Jorda Wharf & PierDREI via 17:45 "floating Hoppe's public (40 minutes) (10 minutes) church" Departure Restaurant transportation

Time	Monday, December 9 <sup>th</sup>	Tuesday, December 10 <sup>th</sup>	Wednesday, December 11 <sup>th</sup>	Thursday, December 12 <sup>th</sup>
08:00				
09:00	Talk – Liang Wu	Talk – Mark H. Fischer	Talk – Riccardo Comin	Talk – Aharon Kapitulnik
10:00	Talk – Brian Møller Andersen	Talk – Roser Valentí	Talk – Berthold Jäck	Talk – Andrei Bernevig
11:00	Benedikt Mehmel (to 11:10) Poster Session	Poster Session	Talk – Pengcheng Dai	Open Slot/TBA
12:30	Lunch Served in Krähennest Event Space			Closing Remarks & Conclusion
13:00	Eulen Served in Krahennest Event Space			
14:00	Talk – Maia G. Vergniory	Talk – Ion Errea		
15:00	Talk – Chunyu Guo	Talk – Raquel Queiroz	Poster Flash	Departure
16:00	Discussion and Coffee Hour	Open Podium Discussion: Future Directions	Poster Session	
17:00	Talk – Zurab Guguchia	Talk – Andreas P. Schnyder		
18:30	Dinner (free for you to plan)	Dinner (free for you to plan)	Heraeus Conference Dinner on Rickmer Rickmer's ship	





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## List of Talk Titles

#### Monday, December 9<sup>th</sup>

Liang Wu: Scanning Time-Resolved Optical Studies on Kagome Superconductors Brian Møller Andersen: Kagome Superconductivity: Conventional or Unconventional? Benedikt Mehmel: Quantum Technologies Made in Hamburg: An overview about the Ecosystem Maia G.Vergniory: New Electronic Properties with a Shake Chunyu Guo: FIB-Fabricated Microstructures Reveal Intrinsic Electronic Symmetry in AV3Sb5 Kagome Superconductors Zurah Guarabia: Muon Spin Potation Insights into Superconductivity and Charge Order in Kagome Mate

Zurab Guguchia: Muon Spin Rotation Insights into Superconductivity and Charge Order in Kagome Metals

#### Tuesday, December 10<sup>th</sup>

Mark H. Fischer: Interplay of Electronic Orders in Kagome Metals Roser Valentí: Electron-Phonon Versus Electron-Electron Interactions in Kagome Systems Ion Errea: Phonon Collapse and the CDW Phase Transition in Kagome Metals Raquel Queiroz: Flat Bands, Bound States, and Linear Response of 2D Metal Pd5Al2I Andreas P. Schnyder: Topological Superconductivity Near van Hove Fillings

### Wednesday, December 11<sup>th</sup>

Riccardo Comin: Connection Between Charge Order and Fermiology in AV3Sb5 Kagome Metals Berthold Jäck: Visualizing Loop Current Excitations

### Thursday, December 12<sup>th</sup>

Aharon Kapitulnik: Optical Search for Time-Reversal Symmetry Breaking Effects in Kagome Metals Andrei Bernevig: No Title

### **Important Addresses in Hamburg**

PierDREI Hotel: Am Sandtorkai 46, 20457 Hamburg
Flussschifferkirche: Hohe Brücke 2, 20459 Hamburg
Hoppe's Restaurant: Övelgönne 6, 22605 Hamburg
Digital Hub / Event Space: Workshop Rooms in 4th Floor & Krähennest Event Location in 5th Floor Am Sandtorkai 32, 20457 Hamburg
Rickmer Rickmer's Historic Sailing Ship: Bei den St. Pauli-Landungsbrücken 1a, 20459 Hamburg





