

Program

Sunday, 13 October 2019

17:00 – 21:00 Registration

from 18:30 *BUFFET SUPPER / Informal get together*

Monday, 14 October 2019

07:30 *BREAKFAST*

08:30 – 08:45 Ulrich Eckern **Opening and welcome**
Andrzej M. Oleś

08:45 – 09:00 Stefan Jorda **About the Wilhelm and Else Heraeus Foundation**

09:00 – 10:00 Joerg Schmalian **Nematic superconductivity in doped topological insulators**

10:00 – 11:00 Matteo Minola **Spin excitations and charge density waves in high-T_c superconducting cuprates**

11:00 – 11:30 *COFFEE BREAK*

11:30 – 12:30 Corinna Kollath **Dynamic enhancement of pairing correlations**

12:30 – 12:40 **Conference Photo** (in front of the Physikzentrum/Main entrance)

12:40 *LUNCH*

14:00 – 15:00 Ewelina Hankiewicz **Topological superconductivity in phase-controlled Josephson junctions on topological insulators and Rashba 2DEGs**

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Monday, 14 October 2019

15:00 – 16:00	Andreas Schnyder	Topological superconductors: Classification, properties, and examples
16:00 – 16:30	<i>COFFEE BREAK</i>	
16:30 – 17:30	Timo Hyart	Correlated states in flat-band systems and topological properties of surface states in the SnTe material class
17:30 – 18:30	Małgorzata Samsel-Czekala	Dirac fermions and topological superconductivity in layered quantum materials
18:45	<i>DINNER</i>	
20:00 – 21:00	Piotr Magierski	Superfluidity far from equilibrium

Program

Tuesday, 15 October 2019

07:30	<i>BREAKFAST</i>	
08:30 – 09:30	Ilya Eremin	Cooper-pairing with small Fermi energies in multiband superconductors: BCS-BEC crossover and time-reversal symmetry broken state
09:30 – 10:30	Maciej M. Maška	Topological superconductivity and Majorana modes in one-dimensional systems
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 12:00	Tomasz Sowiński	Emergence of pairing in systems of several particles
12:00 – 13:00	Krzysztof Wohlfeld	Electron localization in a Mott insulator: Theory versus cold atom simulations
13:00	<i>LUNCH</i>	
14:30 – 15:30	Immanuel Bloch	Quantum matter under the microscope
15:30 – 16:00	<i>COFFEE BREAK</i>	
16:00 – 18:30	Poster Session	
18:30 – 19:45	<i>HERAEUS DINNER at the Physikzentrum (cold & warm buffet, free beverages)</i>	
20:00 – 20:45	A. Lottermann I. Paulus both DFG, Bonn	Science across borders: DFG-funding opportunities for joint German-Polish projects

Program

Wednesday, 16 October 2019

07:30	<i>BREAKFAST</i>	
08:45 – 09:45	Katharina Franke	Yu-Shiba-Rusinov states in single atoms and molecules on superconductors
09:45 – 10:45	Tadeusz Domanski	Constructive feedback of superconductivity on the Kondo effect in nanoscopic heterostructures
10:45 - 11:15	<i>COFFEE BREAK</i>	
11:15 – 12:15	Krzysztof Sacha	Time crystals
12:15 – 12:30	Ulrich Eckern Andrzej M. Oleś	Poster awards and closing
12:30 – 13:30	<i>LUNCH</i>	

End of the seminar and FAREWELL COFFEE / Departure