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  Andrzej M. Oleś  Opening and welcome

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-Tc 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
Monday, 14 October 2019

15:00 – 16:00 Andreas Schnyder

Topological superconductors: Classification, properties, and examples

16:00 – 16:30 COFFEE BREAK

16:30 – 17:30 Timo Hyart

Correlated states in flat-band systems and topological properties of surface steps in the SnTe material class

17:30 – 18:30 Małgorzata Samsel-Czekała

Dirac fermions and topological superconductivity in layered quantum materials

18:45 DINNER

20:00 – 21:00 Piotr Magierski

Superfluidity far from equilibrium
Tuesday, 15 October 2019

07:30  BREAKFAST

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. Maśka  
Topological superconductivity and Majorana modes in one-dimensional systems

10:30 – 11:00  COFFEE BREAK

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  LUNCH

14:30 – 15:30  Immanuel Bloch  
Quantum matter under the microscope

15:30 – 16:00  COFFEE BREAK

16:00 – 18:30  Poster Session

18:30 – 19:45  HERAEUS DINNER at the Physikzentrum  
(cold & warm buffet, free beverages)

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  BREAKFAST

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  COFFEE BREAK

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 LUNCH

End of the seminar and FAREWELL COFFEE / Departure