Workshop “Frontiers in physics of disordered and interacting quantum systems”

Thursday, November 3

Session 1
09:45-10:00: Opening
10:00-10:45: Peter Wölfle. Quantum transport of fermions in random magnetic fields: The early years of ADM in Karlsruhe
10:45-11:30: Yaroslav Blanter. Chiral and quantum magnons
11:30-11:45: Coffee break
11:45-12:30: Yan Fyodorov. Resonances in wave reflection from a disordered medium: Nonlinear sigma-model approach
12:30-13:15: Ferdinand Evers. A Perspective on Many-Body Localization
13:15-14:00: Lunch

Session 2 – ELASTO-Q-MAT SFB TRR Colloquium
14:00-14:45: Elio König. Symplectic topological Kondo effect
14:45-15:30: Dmitry Bagrets. Floquet simulators for topological surface states
15:30-15:45: Coffee break
15:45-16:30: Bjoern Trauzettel. Topological Burning Glass Effect
16:30-17:15: Heiko Weber. A look back at electron-electron interaction phenomena in metals, and implications for nanocontacts

Theory Colloquium (Lehmann-HS)
17:30-19:00: Yuval Gefen. Physics at the Edge

Conference dinner: 19:30

Friday, November 4

Session 3
09:45-10:30: Pavel Ostrovsky. Electron transport in a weakly disordered Weyl semimetal
10:30-11:15: Dmitri Gutman. Thermoelectric transport in Weyl semimetals in the hydrodynamic regime
11:15-12:00: Sam Carr. One-dimensional non-interacting topological insulators with chiral symmetry
12:00-13:00: Lunch

Session 4
13:00-13:45: Ilya Gruzberg. Anderson transitions, multifractality, and conformal invariance in arbitrary dimensions
13:45-14:30: Konstantin Tikhonov. Localization transition on random regular graphs with large connectivity and in many-body quantum dots
14:30-15:30: John Chalker. Many-body delocalisation as symmetry breaking

Physics Colloquium (Festkolloquium, Gaede-HS)
15:45-17:30: Felix von Oppen. The rich world of subgap states in superconductors

Reception (Foyer Gaede-HS): 17:30