

SFB 1083 Workshop on Quantum Materials

Wednesday, October 16 2019, Hörsaal, Renthof 7, FB Physik

Session I (Chair: Prof. Dr. Kerstin Volz)

- 13:00 - 13:50 Prof. Dr. Michael Heuken (RWTH Aachen)
Application, growth and characterization of 2D nanomaterials
- 13:50 - 14:10 Dr. Robert Wallauer (B6 – Marburg)
Time-resolved momentum microscopy from two-dimensional materials
- 14:10 - 14:30 Dr. Gerson Mette (B5 – Marburg)
Charge-transfer across the MoSe₂/WSe₂ interface studied by means of SHG imaging microscopy
- 14:30 - 14:45 Coffee Break

Session II (Chair: Prof. Dr. Ulrich Höfer)

- 14:45 - 15:05 Dr. Tineke Stroucken (B4 – Marburg)
Theory of near K-point optical properties of TMDC mono- and multilayers
- 15:05 - 15:25 Dr. Johanna Heine (A11 – Marburg) & Prof. Dr. Sangam Chatterjee (B2 – Gießen)
2D materials by design - synthesis and structure of layered organic-inorganic metal halides & Characterization of a "wired" 2D material
- 15:25 - 15:45 Prof. Dr. Sangam Chatterjee (B2 – Gießen)
Monitoring hot-electron injection from single gold nanoparticles into 2D materials
- 15:45 - 16:05 Dr. François Bocquet (A12 – Jülich)
Plasmon dispersion in Weyl materials measured with high resolution electron energy loss spectroscopy
- 16:05 - 16:20 Coffee Break

Session III (Chair: Prof. Dr. Stefan Tautz)

- 16:20 – 17:10 Dr. Gustav Bihlmayer (PGI-1, FZ Jülich)
Two-dimensional magnetic topological materials: insights from DFT
- 17:10 - 17:30 Philipp Marauhn (A13 – Münster)
A many-body view on electronic excitations in TMDCs
- 17:30 - 17:50 Dr. Arash Rahimi-Iman (B3 – Marburg)
Prospects of the observation of interlayer charge-transfer and moiré features in twisted 2D semiconductor heterostructures