Monday, 1 November 2021

20:00	Javier Aizpurua	Addressing photonics at the atomic scale
from 18:00	BUFFET SUPPER / Informal get together	
16:00 – 20:00	Registration	

Tuesday, 2 November 2021

07:45 – 08:45	BREAKFAST	
08:45 – 09:00	Scientific organizers	Welcome and Organization
09:00 – 09:45	Susanne Baumann	Stochastic resonance as a tool to investigate spin dynamics
09:45 – 10:30	Thomas Fredriksen	Spin physics in graphene nanostructures
10:30 – 11:00	COFFEE BREAK	
11:00 – 11:45	Nadine Hauptmann	What can atomic force microscopy contribute to understand atomic-scale magnetism?
11:45 – 12:30	Shawulienu Kezilebieke	Topological superconductivity in van der Waals heterostructures
12:30	LUNCH	

Tuesday, 2 November 2021

14:00 – 15:30	Poster Session A	
15:30 – 16:00	COFFEE BREAK	
16:00 – 16:45	Tyler Cocker	Atomically resolved terahertz scanning tunnelling spectroscopy as a tool for exploring new materials
16:45 – 17:15	Manish Garg	Real-space sub-femtosecond imaging of quantum electronic coherences in molecules
17:15 – 18:00	Melanie Müller	Tracing ultrafast hot electron dynamics inside a THz-gated STM tip
18:00	DINNER	
20:00 – 21:00	Ingmar Swart	Electronic quantum materials simulated with artificial lattices

Wednesday, 3 November 2021

08:00	BREAKFAST	
09:00 – 09:45	Guillaume Schull	From single-molecule fluorescence to photosynthesis with an STM
09:45 – 10:30	Yang Zhang (online)	Real-space evidence for wavelike electronic energy transfer in donor– acceptor molecular systems through quantum coherence
10:30 – 11:00	COFFEE BREAK	
11:00 – 11:45	Blanca Biel (online)	SPM DFT-based simulations of defected 2D materials
11:45 – 12:30	Remy Pawlak	On-surface synthesis of silicene and nanographene characterized by atomic force microscopy
12:30 – 12:40	Conference Photo (in front of the Physikzentrum/Main entrance)	
12:40	LUNCH	
14:00 – 18:00	Excursion	
18:00	HERAEUS DINNER at the	Physikzentrum
	(cold & warm buffet, with	complimentary drinks)

Thursday, 4 November 2021

08:00	BREAKFAST	
09:00 – 09:45	Anika Schlenhoff (online)	Using SP-STM at nanometer distances for imaging and manipulation of atomic-scale magnetism
09:45 – 10:30	Dimas de Oteyza	Chemical stability of zigzag edges in carbon nanostructures
10:30 – 11:00	COFFEE BREAK	
11:00 – 11:45	Martin Švec	From single-molecule emitters to entangled excitonic states: the insights from the scanning-probe spectromicroscopy
11:45 – 12:30	Elizabeth Boer-Duchemin	Brighter but not smaller: advances in light emission using scanning probe techniques in air
12:30	LUNCH	
14:00 – 15:30	Poster Session B	
15:30	COFFEE BREAK	
16:00 – 16:45	Katrin Domke	Probing geometric and electronic properties of single-molecule junctions with a combined operando nearfield Raman & break-junction platform
16:45 – 17:15	Philip Willke	Coherent Control of Individual Atomic and Molecular Spins on Surfaces
17:15 – 18:00	Fernando Delgado	A general description of driven dissipative systems beyond the Bloch equations
18:00	DINNER	
20:00 – 21:00	Fabian Natterer	Dynamic Duo: Sparse Sampling and Parallel Spectroscopy for Fast Quasiparticle Interference Imaging

Friday, 5 November 2021

08:00	BREAKFAST	
09:00 – 09:45	Philip Moriarty (online)	Sifting Self-Organisation: Automated Classification of Far-From- Equilibrium Nanostructures
09:45 – 10:30	Annica Black-Schaffer (online)	Majorana fermions in magnetic impurity chains on conventional superconductors
10:30 – 11:00	COFFEE BREAK	
11:00 – 11:45	Deung-Jang Choi	Creating new bands in a superconductor by crafting different types of spin chains
11:45 – 12:30	Laerte Patera	Imaging the effect of electron transfer at the atomic scale
12:30 – 12:45	Scientific organizers	Closing remarks and poster prize
12:45	LUNCH	

End of Seminar / Departure