

# Program

## Sunday, 27 October 2019

17:00 – 20:00    Registration

18:00            *BUFFET SUPPER and informal get-together*

## Monday, 28 October 2019

08:00            *BREAKFAST*

9:00 – 09:10    Scientific organizers    **Welcome words**

09:10 – 09:55    Jens Wiebe            **STS of spin chains built on  
superconductors**

09:55 – 10:40    Takashi Kumagai      **Near-field physics and chemistry in  
plasmonic STM junctions**

10:40 – 11:10    *COFFEE BREAK*

11:10 – 11:55    Christian Lotze        **Molybdenum Disulfide on Au(111) –  
growth, electronic structure and  
outstanding playground for single  
molecule spectroscopy**

11:55 – 12:40    Pavel Jelínek          **1D organometallic chains: on-surface  
synthesis and transport properties**

12:40            *LUNCH*

# Program

**Monday, 28 October 2019**

14:00 – 14:45	Rémi Avriller	<b>Single-photon emission mediated by single-electron tunneling in plasmonic nanojunctions</b>
14:45 – 15:30	Emi Minamitani	<b>Theory of single spin spectroscopy at surfaces: from Kondo singlet to spin-orbit interaction</b>
15:30 – 16:00	<i>COFFEE BREAK</i>	
16:00 – 16:45	Sarah Burke	<b>Cool chemistry: Watching reaction progression at single-site heterogeneous catalysts</b>
16:45 – 17:30	Leo Gross	<b>Molecular synthesis, charge-state control and structure elucidation with AFM</b>
17:30 – 18:15	<b>Flash poster presentation</b>	
18:30	<i>DINNER</i>	
20:00	<b>Poster session 1</b>	

# Program

**Tuesday, 29 October 2019**

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Jascha Repp	<b>Actuating and probing a single-molecule switch at femtosecond timescales</b>
09:45 – 10:30	Volker Deckert	<b>High resolution tip-enhanced Raman scattering under ambient conditions</b>
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Sebastian Loth	<b>Ultrafast dynamics of collective charge and spin excitations on surfaces</b>
11:45 – 12:30	Yousoo Kim	<b>Single-molecule optical spectroscopy with a photon STM</b>
12:30 – 12:40	<b>Conference Photo</b> (in the front of the lecture hall)	
12:40	<i>LUNCH</i>	

# Program

**Tuesday, 29 October 2019**

14:00	<b>Excursion / free discussions</b>	
18:00	<i>DINNER</i>	
20:00 – 21:00	<b>After Dinner Highlight session:</b>	
20:00 – 20:15	Shadi Fatayer	<b>Molecular structure elucidation with charge-state control</b>
20:15 – 20:30	Manish Garg	<b>Attosecond coherent manipulation of electrons in tunneling microscopy</b>
20:30 – 20:45	Richard Korytár	<b>Incommensurate oscillations of oligoacene gaps adsorbed on Au(111)</b>
20:45 – 21:00	Dante Sblendorio	<b>Quantum state manipulation of single atom magnets using the hyperfine interaction</b>

# Program

Wednesday, 30 October 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:15	Stefan Jorda	<b>About the Wilhelm and Else-Heraeus-Foundation</b>
09:15 – 10:00	Richard Berndt	<b>Probing and controlling molecular spins on surfaces</b>
10:00 – 10:45	Laurent Limot	<b>Atomic-scale spin sensing with a single-molecule at the apex of a scanning tunneling microscope</b>
10:45 – 11:15	<i>COFFEE BREAK</i>	
11:15 – 12:00	Marek Kolmer	<b>Two-probe scanning tunneling microscopy and spectroscopy</b>
12:00 – 12:45	Amandine Bellec	<b>Addressing spin-crossover molecules on metallic substrate by voltage pulses and light</b>
12:45	<i>LUNCH</i>	

# Program

Wednesday, 30 October 2019

14:00 – 14:45	Ruben Esteban	<b>Optical coupling with molecules in scanning probe microscopes</b>
14:45 – 15:30	Aran Garcia-Lekue	<b>Functional carbon nanostructures: Insights from density functional-theory</b>
15:30 – 16:00	<i>COFFEE BREAK</i>	
16:00 – 16:45	Alexander Riss	<b>Complex molecular architectures: design and characterization at the atomic scale</b>
16:45 – 17:30	David Écija	<b>On-surface synthesis of <math>\pi</math>- conjugated polymers</b>
17:30 – 18:15	Christian Wagner	<b>Scanning quantum dot microscopy</b>
18:30	<i>HERAEUS DINNER</i> <i>(social event with cold &amp; warm buffet with complimentary drinks)</i>	
20:00	<b>Poster session 2</b>	

# Program

**Thursday, 31 October 2019**

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Christian Ast	<b>Yu-Shiba-Rusinov states from impurities with a quantum spin</b>
09:45 – 10:30	Pablo Merino	<b>Photon statistics measured by scanning tunneling microscopy-induced luminescence on single molecules</b>
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Jingcheng Li	<b>Engineering the magnetic properties of graphene nanostructures by edge topology</b>
11:45– 12:30	Martina Corso	<b>Electronic consequences of chemical doping of graphene nanoribbons</b>
12:30 – 13:00	Benjamin Heinrich	<b>Publishing at nature research journals – insights from the other side</b>
13:00 – 13:15	Scientific organizers	<b>Final discussion and closing words</b>
13:15	<i>LUNCH</i>	

**End of the seminar and departure**