

# Program

## Sunday, 29 September 2019

16:00 – 20:00	Registration	
18:00	<i>BUFFET SUPPER and get-together</i>	
19:30 – 19:40	Scientific organizers	<b>Welcome words</b>
19:40 – 20:40	Manfred Kappes	<b>Resolving clusters</b>

## Monday, 30 September 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:40	Andreas Wolf	<b>Molecular and cluster ions in a cryogenic storage ring – from internal cooling to merged-beam electron collisions</b>
09:40 – 10:20	Michael Martins	<b>Supported clusters in the view of X-rays</b>
10:20 – 10:40	<i>COFFEE BREAK</i>	
10:40 – 11:20	Gert von Helden	<b>Spectroscopy of clusters in clusters</b>
11:20 – 11:40	Rico Mayro Tanyag	<b>Nanostructures in superfluid helium droplets</b>
11:40 – 12:00	Michael Kelbg	<b>Temporal development of a laser-induced helium nanoplasma measured through auger emission and above-threshold ionization</b>
12:00 – 12:10	<b>Conference Photo</b>	(in the front of the lecture hall)
12:10	<i>LUNCH</i>	

# Program

**Monday, 30 September 2019**

15:30 – 16:10 **Poster Pitch 1**

16:10 – 16:30 *COFFEE BREAK*

16:30 – 18:00 **Posters**

18:00 *DINNER*

19:30-20:10 Michael Farnik **Uptake and reactions of molecules on clusters and free nanoparticles in molecular beams**

20:10 – 20:30 David Müller **Optical cryogenic ion spectroscopy of metalated flavin complexes**

20:30 **Posters**

# Program

**Tuesday, 01 October 2019**

08:00	<i>BREAKFAST</i>	
09:00 – 09:40	Karl-Heinz Meiwes-Broer	<b>Charging, de-charging and detonation of metal clusters</b>
09:40 – 10:20	Lukas Bruder	<b>Coherent nonlinear spectroscopy in the gas phase</b>
10:20 – 10:40	<i>COFFEE BREAK</i>	
10:40 – 11:20	Ewald Janssens	<b>Altering geometry, stability, and chemical reactivity of gold cluster cations by palladium doping</b>
11:20 – 11:40	Vlasta Bonačić-Koutecký	<b>Tuning optical and catalytic properties of ligated noble metal clusters by synergistic role of metallic and organic subunits</b>
11:40 – 12:00	Lutz Schweikhard	<b>Tandem high-resolution multi-reflection time-of flight mass spectrometry for photodissociation studies of (doped) atomic clusters in an electrostatic ion beam trap</b>
12:00	<i>LUNCH</i>	

# Program

**Tuesday, 01 October 2019**

15:30 – 16:10 **Poster Pitch 2**

16:10 – 16:30 *COFFEE BREAK*

16:30 – 18:00 **Posters**

18:00 *DINNER*

19:30-20:10 Oliver Kühn **Vibronic spectroscopy with classical trajectories**

20:10 – 20:30 Martina Lippe **Direct observation of cluster size distributions during nucleation in pulsed Laval expansions**

20:30 **Posters**

# Program

Wednesday, 02 October 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:15	Stefan Jorda	<b>About the Wilhelm and Else Heraeus Foundation</b>
09:15 – 09:55	Martin Beyer	<b>The many faces of the hydrated electron</b>
09:55 – 10:15	Arghya Chakraborty	<b>Closer look at salt dissolution: Microhydration of <math>\text{LiX}_2^-</math> (X= Cl<sup>-</sup>, I<sup>-</sup>) studied by cryogenic ion trap vibrational spectroscopy</b>
10:15 – 10:35	Annika Steiner	<b>Strong temperature and size effects in iron-nitrogen interactions</b>
10:35 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:40	Jonas Warneke	<b>Chemistry of electrophilic anions</b>
11:40 – 12:20	André Flielicke	<b>Size selective vibrational spectroscopy of neutral (boron) clusters</b>
12:20	<i>LUNCH</i>	
15:00	<b>Excursion</b> (Visit of a historic wine cellar and wine tasting)	
18:00	<i>DINNER</i>	
19:30-20:30	Daniel Neumark	<b>Studies of clusters using high resolution negative ion photoelectron spectroscopy</b>
20:30	<b>Posters</b>	

# Program

Thursday, 03 October 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:40	Stefan Vajda	<b>Catalysis by mono- and bimetallic sub-nm clusters</b>
09:40 – 10:20	Barbara Lechner	<b>Can we control the charge state and structural dynamics of supported clusters?</b>
10:20 – 10:40	<i>COFFEE BREAK</i>	
10:40 – 11:20	Melanie Schnell	<b>Deciphering the structures and intermolecular interactions of weakly bound clusters using highresolution rotational spectroscopy</b>
11:20 – 11:40	Joost Bakker	<b>The adsorption of NO onto group IX transition metal cluster ions</b>
11:40 – 12:00	Andrey Lyalin	<b>Theoretical design of nanocatalysts for oxygen reduction and hydrogen evolution reactions</b>
12:00	<i>LUNCH</i>	

# Program

**Thursday, 03 October 2019**

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| 15:30 – 16:10 | Bernd von Issendorff   | <b>Structure and dynamics of metal clusters: old and new tales</b>   |
| 16:10 – 16:30 | <i>COFFEE BREAK</i>  |  |
| 16:30 – 17:10 | Sandra Lang  | <b>Water oxidation on free Calcium-manganese-oxide clusters: gas phase model systems for the catalytically active center of photosystem II</b>   |
| 17:10 – 17:30 | Alexander Kononov  | <b>Fullerene arrangement by vapor deposition on a well-ordered thin Al<sub>2</sub>O<sub>3</sub> film grown on Ni<sub>3</sub>Al (111) crystal</b> |
| 17:30 – 17:50 | Christian van der Linde  | <b>Electron catalyzed reactions involving CO<sub>3</sub><sup>•-</sup>(H<sub>2</sub>O)<sub>n</sub></b>  |
| 18:00         | <i>HERAEUS DINNER<br/>(social event with cold &amp; warm buffet with complimentary drinks)</i> |  |
| 20:00 – 21:00 | Ludger Wöste   | <b>45 years of research on metal clusters</b>  |
| 21:00         | Scientific organizers  | <b>Closing words</b>   |

**Friday, 04 October 2019**

08:00            *BREAKFAST*

**Departure**