

## International conference on dynamic pathways in multidimensional landscapes

<b>Monday 16/09</b>	08:30	Registration
	09:30	Welcome
	10:00	<b>Molecular dynamics 1</b> <b>Dynamic pathways in multidimensional landscapes at molecule/metal interfaces - <i>Martin Wolf</i></b> <b>Solving protein structures by enhanced anomalous x-ray diffraction at high-intensity - <i>Henry Chapman</i></b> <b>Real-time observation of surface bond breaking with an x-ray laser - <i>Martina dell Angela</i></b> <b>SACLA: new opportunities for atomic, molecular and cluster science with XFEL - <i>Kiyoshi Ueda</i></b>
	12:30	Lunchtime snacks on-site
	13:30	<b>Quantum materials 1</b> <b>Polarized photons meet correlated electrons - <i>Bernd Keimer</i></b> <b>Ultrafast electron dynamics in the topological insulator compound <math>\text{Bi}_2\text{Se}_3</math> - <i>Patrick Kirchmann</i></b> Phase separation in complex oxides: $\text{RTiO}_3$ - <i>Bo Shi</i> Nonmagnetic linear dichroism in fluorescence spectra of cubic solids - <i>Nele Thielemann-Kühn</i> Ultrafast dynamics in antiferromagnetic materials - <i>Christoph Trabant</i>
18:00	Welcome reception at the TV-tower	
<b>Tuesday 17/09</b>	09:30	<b>Molecular dynamics 2</b> <b>Taking snapshots of photosynthetic water oxidation: towards time-resolved x-ray spectroscopy and crystallography - <i>Vittal Yachandra</i></b> Reflection zone plates for RIXS and partial fluorescence yield XAS - <i>Jens Rehanek</i> <b>Ab initio simulations of X-rays probing ultra-fast dynamics - <i>Michael Odelius</i></b> Nuclear and electronic dynamics triggered by photoionization - <i>Oriol Vendrell</i> Ultrafast energy transfer to liquid water by short and intense THz pulses - <i>Pankaj K. Mishra</i> Correlated non-adiabatic proton-hole motion after photoionization - <i>Zheng Li</i>
	12:30	Lunchtime snacks on-site
	13:30	<b>Hot topics</b>
<b>Wednesday 18/09</b>	09:30	<b>Quantum materials 2</b> <b>New directions with coherent diffraction spectroscopy using XFELs - <i>Andreas Scherz</i></b> <i>Examples of Ultrafast X-ray Diffraction Experiments: Synchrotron vs. Laser-Plasma Sources - <i>Matias Bargheer</i></i> Photoinduced lattice dynamics in $\text{BiFeO}_3$ monitored by femtosecond x-ray diffraction - <i>Daniel Schick</i> Engineering ultrafast magnetism - <i>Ilie Radu</i>
	12:00	Lunch break
	15:00	<b>Making the molecular movie: the chemists'Gedanken Experiment enters the lab frame - <i>Dwayne Miller</i></b>
		<b>Poster session</b>
<b>Thursday 19/09</b>	09:30	<b>Molecular dynamics 3</b> <b>Ultrafast x-ray and 2-dimensional UV studies of molecular and nanosystems - <i>Majed Chergui</i></b> <b>Tracking charge and spin dynamics of molecular electronic excited states with x-ray spectroscopy - <i>Kelly Gaffney</i></b> Femtosecond RIXS of $\text{Fe}(\text{CO})_5$ in ethanol – ultrafast excited state and ligand substitution dynamics in solution - <i>Kristjan Kunnus</i> Hydrogen bonds in liquids seen by RIXS - <i>Annette Pietsch</i> Molecular dynamics in small molecules studied by wavelength-selected femtosecond XUV pulses - <i>Oleg Kornilow</i> <b>Controlling the motion of large molecules for the investigation of molecular dynamics - <i>Jochen Küpper</i></b>
	12:30	Lunchtime snacks on-site
	13:30	<b>Quantum materials 3</b> <b>Femtosecond Control and Dynamics of the Exchange Spin-Spin Interaction - <i>Alexey Kimel</i></b> Investigating the role of spin-lattice coupling in the ultrafast demagnetization of GdTb alloys - <i>Andrea Eschenlohr</i> Ultrafast Magnetization Dynamics of Gadolinium: Towards a Complete Picture - <i>Björn Frietsch</i> Verwey Transition in Magnetite: How fast does an insulator become a metal? - <i>Roopali Kukreja</i> Ultrafast emergence of microscopic spin order in GdFeCo - <i>Catherine Graves</i>
	18:00	Conference dinner on a steam boat
<b>Friday 20/09</b>	09:30	<b>X-ray interactions with matter</b> <b>Key differences in the interaction of synchrotron and X-FEL x-rays with matter - <i>Jo Stöhr</i></b> <i>Quenching of the resonant x-ray magnetic scattering cross section by intense FEL pulses - <i>Bastian Pfau</i></i> <b>Stimulated X-ray emission in the condensed phase - <i>Martin Beye</i></b> Non-linear effects in x-ray emission of liquid water with ultra-high fluence at LCLS - <i>Simon Schreck</i> <b>Stimulated electronic x-ray raman scattering at XFEL sources - <i>Nina Rohringer</i></b>
	13:00	Closing remarks