Schedule

International conference on dynamic pathways in multidimensional landscapes

Monday 16/09

	08:30	Registration
	09:45	Welcome
Session 1		**Molecular dynamics 1**
	10:00	**Dynamic pathways in multidimensional landscapes at molecule/metal interfaces - *Martin Wolf***
	10:35	**Solving protein structures by enhanced anomalous x-ray diffraction at high-intensity - *Henry Chapman***
	11:10	Coffee break
	11:30	**Real-time observation of surface bond breaking with an x-ray laser - *Martina Dell'Angela***
	12:05	**SACLA: new opportunities for atomic, molecula and cluster science with XFEL - *Kiyoshi Ueda***
	12:40	Lunchtime snacks on-site
Session 2		**Quantum materials 1**
	13:45	**Polarized photons meet correlated electrons - *Bernhard Keimer***
	14:20	**Ultrafast electron dynamics in the topological insulator compound Bi_2Se_3 - *Patrick Kirchmann***
	14:55	Coffee break
	15:15	Phase separation in complex oxides: $RTiO_3$ - *Bo Shi*
	15:35	Nonmagnetic linear dichroism in fluorescence spectra of cubic solids - *Nele Thielemann-Kühn*
	15:55	Ultrafast dynamics in antiferromagnetic materials - *Christoph Trabant*
Social event	17:45	Welcome reception at the TV-tower

Tuesday 17/09

Session 3		**Molecular dynamics 2**
	09:30	**Taking snapshots of photosynthetic water oxidation: towards time-resolved x-ray spectroscopy and crystallography - *Vittal Yachandra***
	10:05	Reflection zone plates for RIXS and partial fluorescence yield XAS - *Jens Rehanek*
	10:25	Nuclear and electronic dynamics triggered by photoionization - *Oriol Vendrell*
	10:50	Coffee break
	11:20	**Ab initio simulations of X-rays probing ultra-fast dynamics - *Michael Odelius***
	11:55	Ultrafast energy transfer to liquid water by short and intense THz pulses - *Pankaj K. Mishra*
	12:15	Correlated non-adiabatic proton-hole motion after photoionization - *Zheng Li*
	12:35	Lunchtime snacks on-site
Session 4		**Hot topics**
	13:30	**Controlling the quantum phase of solids with strong THz pulses - *Andrea Cavalleri***
	14:05	**Ab initio view on soft X-ray spectroscopy - *Oliver Kühn***
	14:40	**Measuring electron momenta, electron energy and time using the ArTOF instrument and beamlines at BESSY II - *Svante Svensson***
	15:15	Coffee break

Wednesday 18/09

Session 5		**Quantum materials 2**
	09:30	**New directions with coherent diffraction spectroscopy using XFELs - *Andreas Scherz***
	10:05	Examples of Ultrafast X-ray Diffraction Experiments: Synchrotron vs. Laser-Plasma Sources - *Matias Bargheer*
	10:30	Coffee break
	10:50	Photoinduced lattice dynamics in $BiFeO_3$ monitored by femtosecond x-ray diffraction - *Daniel Schick*
	11:10	Engineering ultrafast magnetism - *Ilie Radu*
	11:30	Lunch break
	15:00	**Making the molecular movie: the chemists'Gedanken Experiment enters the lab frame - *Dwayne Miller***
Poster session	15:35	Poster introduction, 2 minutes each
		Presentation at the posters

Thursday 19/09

Session 7		**Molecular dynamics 3**
	09:30	**Ultrafast x-ray and 2-dimensional UV studies of molecular and nanosystems - *Majed Chergui***
	10:05	**Tracking charge and spin dynamics of molecular electronic excited states with x-ray spectroscopy - *Kelly Gaffney***
	10:40	Femtosecond RIXS of $Fe(CO)_5$ in ethanol – ultrafast excited state and ligand substitution dynamics in solution - *Kristjan Kunnus*
	11:00	Coffee break
	11:20	Hydrogen bonds in liquids seen by RIXS - *Annette Pietsch*
	11:40	Molecular dynamics in small molecules studied by wavelength-selected femtosecond XUV pulses - *Oleg Kornilow*
	12:00	**Controlling the motion of large molecules for the investigation of molecular dynamics - *Jochen Küpper***
	12:35	Lunchtime snacks on-site
Session 8		**Quantum materials 3**
	13:30	**Femtosecond Control and Dynamics of the Exchange Spin-Spin Interaction - *Alexey Kimel***
	14:05	Investigating the role of spin-lattice coupling in the ultrafast demagnetization of GdTb alloys - *Andrea Eschenlohr*
	14:25	Coffee break
	14:45	Ultrafast Magnetization Dynamics of Gadolinium: Towards a Complete Picture - *Björn Frietsch*
	15:05	Verwey Transition in Magnetite: How fast does an insulator become a metal? - *Roopali Kukreia*
	15:25	Ultrafast emergence of microscopic spin order in GdFeCo - *Catherine Graves*
Social event	17:45	Conference dinner on a boat

Friday 20/09

Session 9		**X-ray interactions with matter**
	09:30	**Key differences in the interaction of synchrotron and X-FEL x-rays with matter - *Jo Stöhr***
	10:05	*Quenching of the resonant x-ray magnetic scattering cross section by intense FEL pulses - Bastian Pfau*
	10:25	**Stimulated X-ray emission in the condensed phase - *Martin Beye***
	11:00	Coffee break
	11:20	Non-linear effects in x-ray emission of liquid water with ultra-high fluence at LCLS - *Simon Schreck*
	11:40	**Stimulated electronic x-ray raman scattering at XFEL sources - *Nina Rohringer***
	12:15	Closing remarks