

5th BANFF Meeting on Structural Dynamics, Febr. 19th – Febr. 22nd

time	Sunday, Febr. 19th	Monday, Febr. 20th	Tuesday, Febr. 21st	Wednesday, Febr. 22nd	
08.30		Claus Ropers Development and application of Ultrafast Transmission Electron Microscopy using laser-triggered field-emitters	Franz Kärtner THz Linear Acceleration and Compact X-ray Sources	Bryan Reed Compressively Sensed Video in Transmission Electron Microscopy	
08.45					
09.00		Renske van der Veen Ultrafast core-level spectroscopy in 4D-electron microscopy	Robert Scholten Cold atom electron ion sources: towards practical imaging	Derek Mendez Angular correlations of photons from solution diffraction at a free electron laser encode molecular structure	
09.15					
09.30		Keith Nelson Structural Dynamics Using THz, Optical, and X-ray Methods	Pietro Musumeci Sub-10 fs relativistic electron beams with ultralow emittance for ultrafast electron diffraction application	Daniela Rupp Diffractive imaging of nanoparticles and ultrafast nanoplasma dynamics	
09.45					
10.00			Jerome Faure kHz relativistic electrons driven by single-cycle laser pulse and their application to ultrafast electron diffraction		Henrike Müller-Werkmeister Femtosecond Time-Resolved Ligand Dynamics in Myoglobin under low excitation conditions observed with an XFEL
10.15					
10.00		Registration MB Central Foyer (10.30h – 14.30 h)	Coffee break MB Central Foyer	Wouter Verhoeven A novel method for time-resolved electron energy loss spectroscopy using TM ₁₀ cavities as longitudinal lenses	Coffee break MB Central Foyer
10.15					
10.30	Abbas Ourmazd Dynamics from data with extreme timing uncertainty		Jens Biegert Diffraction imaging of bond scission in acetylene and proton motion	Anton Barty Macromolecular X-ray Imaging Using Imperfect Crystals	
10.45					
11.00					
11.15	Laura Waller Computational microscopy for 3D phase imaging		Renkai Li MeV Ultrafast Electron Scattering at SLAC: Status and Opportunities	Marius Schmidt Time-Resolved Crystallography at the Free Electron Laser	
11.30					
11.30	Lunch Vistas Dining Room (11.30 h – 13.30 h)		Doga Gursoy High-resolution imaging from sparse, incomplete and uncertain data	Dominik Ehberger Seeing atoms and electrons in motion via ultrafast single-electron microscopy and diffraction	Joseph Patterson Towards understanding the dynamics of block copolymer assemblies using liquid phase electron microscopy
11.45					
12.00			Joao Pedro Nunes The photo-induced dynamics of 1,2-dithiane – from molecular dynamics to ultrafast electron diffraction	Nigel Browning Imaging dynamic processes in liquids by TEM	
12.15					
12.30					
12.15		Lunch Vistas Dining Room	Jie Yang Making Molecular Movies with Relativistic Ultrafast Electron Diffraction	Closing Remarks	
12.45					
13.00		Lunch Vistas Dining Room	Lunch Vistas Dining Room	Lunch Vistas Dining Room	
13.15					
		Free Afternoon			

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13.30		Free Afternoon	Lu-Chang Qin An Ultrabright and Monochromatic LaB ₆ Nanowire Electron Source	
13.45	Welcome (Henry Chapman)			
14.00	Dwayne Miller Realization of the Chemists' Gedanken Experiment: Roadmap to a New Conceptual Basis for Chemistry (and Biology)			Yimei Zhu Dichotomy in Ultrafast Atomic Dynamics as Direct Evidence of Polaron Formation in Manganites
14.15				
14.30	Lin X. Chen Ultrafast Electronic and Nuclear Structural Dynamics of Transition Metal Centers in Small Complexes and in Protein Matrix			Klaus Sokolowski-Tinten Energy relaxation and transport in laser-excited nanoscale films studied by time-resolved MeV electron diffraction
14.45				Arne Sentfleben High temporal resolution ultrafast electron diffraction applied to lattice dynamics of few-layer graphite
15.00	Yi-Wei Chang Architecture of the type IVa pilus machine			Giovanni Vanacore Spatio-temporal visualization of phonon and plasmon dynamics in low-dimensional materials
15.15				Tim Frigge Ultrafast non-thermal switching of a surface CDW system in the regime of critical damping
15.30	Coffee break MB Central Foyer			Coffee break MB Central Foyer
15.45				
16.00	Lois Pollack Visualizing structural ensembles with small angle x-ray scattering			Shinya Koshihara Ultrafast Photo-control of Ferroelectric Order in Organic and Inorganic Strongly Correlated Matters: Role of Hidden State
16.15				
16.30	Kelly Gaffney Triangulating the Location of Conical Intersections with Ultrafast X-ray Scattering and Spectroscopy Studies of Spin Crossover			Joe McKeown <i>In Situ</i> Imaging of Irreversible Materials Processes with Movie Mode Dynamic TEM
16.45				
17.00	Joel Ullom Ultrafast X-ray Spectroscopies using Microcalorimeter Sensors: Recent Table-top Demonstrations and Future Plans at Large Facilities			Eric Collet Elastically-Driven Cooperative Response: <i>from molecular structural trapping to lattice expansion</i>
17.15	Petra Rudolph Structural dynamics of the martensitic phase transition in a Ni-Mn-Ga Heusler alloy probed by ultrafast electron diffraction			Elisa Biasin Femtosecond structural dynamics of solvated metal complexes with anisotropy-enhanced X-ray scattering
17.30				
17.45				Kristoffer Haldrup Sub-picosecond tracking of the coupled electronic, structural and solvation dynamics in metal-centered complexes utilizing multi-modal XFEL experiments
18.00				Poster Session Elder Tom Crane Bear Room MB Central Foyer (18.00 h – 21.30 h)
18.15				
18.30				