

08:30	II-PL-02 Anders Nilsson Ultrafast X-ray Spectroscopic Probing of Catalytic Surface Chemical Reactions using LCLS	F. de Groot					08:30
09:10	V-PL-03 Alain Manceau Emerging applications of high-resolution XANES spectroscopy in environmental science	A. Vögelin					09:10
09:50	Conference picture and general announcements						09:50
10:10	Coffee break						10:10
10:30	Environmental II A. Manceau, J. Göttlicher	Operando and time-resolved G. Aquilanti, J. Purans	Advanced XAS Technics I P. Glatzel, S. Huotari	Surfaces and interfaces D. Lützenkirchen-Hecht, H. Abe	Soft X-Ray XAFS A. Nilsson		10:30
10:40	V-KN-10 A. Voegelin Exploring the formation and structural diversity of Fe(III)-precipitates in aquatic systems using XAS	VI-O-11 A.D. Winter Thermo-mechanical behaviour of EVA/CNT composites studied through in situ NEXAFS spectroscopy	III-KN-05 M. Nachttegaal Time-resolved x-ray absorption and emission spectroscopies to determine the structure of the catalytic active site	IV-KN-15 K. Asakura Polarization dependent total reflection fluorescence XAFS and the control of metal structures on oxide surfaces	XFEL-Spectroscopies at XFELs: a Short Introduction C. Bressler		10:40
10:50					XFEL-01 S. Schreck Implications of adding the dimension of time to science with X-rays		10:50
11:10	V-O-11 D. Cabaret Probing the 3d states of Fe in goethite using Al K-edge XANES spectroscopy	VI-O-12 T. Yao Time-resolved XAFS in kinetic formation and transition mechanism of nanoclusters and nanocrystals	III-O-06 J.-C. Gasse Yoneda-XAFS experiments with X-ray area detectors	IV-O-16 H.L. Meyerheim XAFS study of the local structure of iron on the (0001) surface of the topological insulator Bi ₂ Se ₃	XFEL-02 P. Wernet Orbital-specific mapping of chemical dynamics		11:10
11:30	V-O-12 F. Pinakidou Metal (Hydro)oxides for the removal of Cr(VI) from drinking water: a XAFS study	VI-O-13 D. Degler Operando X-ray absorption spectroscopy: A key technique to understand the structure-function-relationship of noble metal doped gas sensing materials	III-O-07 G. van der Laan Probing the magnetization dynamics of spin valve systems using x-detected ferromagnetic resonance	IV-O-17 N.I. Verbitskiy Atomically precise semiconductor-graphene interfaces by Ge intercalation	XFEL-03 R. Carley Ultrafast generation of magnetic ordering in a first order phase transition in FeRh		11:30
11:50	V-O-13 R. Dähn X-ray microspectroscopic investigations of heavy metal uptake by argillaceous rocks	VI-O-14 T. Asanova Energy-dispersive XAFS and PXRD study of (NH ₄) ₂ [OsCl ₆] thermolysis	III-O-08 C.T. Chantler The quality of X-ray Absorption Fine Structure measurements by Transmission for dilute systems, using the Hybrid Technique	IV-O-18 F. d'Acapito The Role Of Ag and Sb Ions In The Resistive Switching Mechanism Of Conductive Bridging Random Access Memories	XFEL-04 M. Beye Stimulating soft X-ray emission from condensed matter		11:50
12:10	Lunch break						12:10

	Earth and extreme conditions A. Vögelin, R. Dähn	In situ and operando studies A. Leon, F. Scheiba	XES + RIXS H. Carvalho, M. Nachttegaal	Surfaces and electrocatalysis K. Asakura, S.L. Schroeder	Hard X-Ray XAFS C. Bressler		
13:30	V-KN-14 Y. Ping XAFS in high-energy-density matter: solid iron up to 560GPa	VII-KN-01 D. Asakura Electrochemical operando soft x-ray emission spectroscopy for Li-ion-battery electrodes	III-KN-09 M. Bauer Homogeneous catalysis and high resolution hard X-ray absorption and emission spectroscopy	IV-O-19 D. Lützenkirchen-Hecht Ex-situ and in-situ investigations of thermal anti-oxidation treatments of Cr-Ni steels by reflection mode EXAFS	XFEL-05 K. Gaffney Probing chemical reaction dynamics with atomic resolution and specificity using ultrafast x-ray spectroscopy		13:30
13:40							13:40
14:00	V-O-15 J. Pohlenz Structural Properties of Sodium-Rich Carbonate-Silicate Melts: An In-situ High-Pressure EXAFS Study on Y and Sr	VII-O-02 M. Tromp Operando XAS Characterization of LIS Batteries	III-O-10 S. Mebs Abrupt vs. gradual spin-cross-over in classic Fe(II) and Fe(III) compounds analyzed by high-resolution XAS/XES and DFT	IV-O-20 M.-H. Chu In situ X-ray absorption spectroscopy characterization of the incipient growth of ZnO thin films by atomic layer deposition	XFEL-06 G. Vankó Tracking light-induced ultrafast transformations of transition metal complexes		14:00
14:20	V-O-16 M.J. Ward Large area – high spatial resolution iron XANES mapping of impact melt-bearing breccias	VII-O-03 Z. Arthur In situ XAS/XRD Study of Li ₂ FeSiO ₄ as LIB Cathode Material	III-O-11 A. Bordage In situ site-selective K-edge XAS: A powerful probe of the transformation of mixed-valence compounds	IV-O-21 K.K. Bando In situ XAFS and XRD observation during a preparation process of an electroluminescent Tb doped alumina film	XFEL-07 T. Katayama Developments for time-resolved X-ray spectroscopies using X-ray Free Electron Lasers at SACLA		14:20
14:40	V-O-17 N. Thammajak Discovering effect of radiation interaction on color of freshwater cultured pearls	VII-O-04 K. Aziz-Lange In-situ techniques for soft X-ray spectroscopy on catalytic and electrochemical systems	III-O-12 M. al Samarai Redox sensitivity of cobalt in the CoMoS and CoNiMoS HDS catalyst: a Resonant Inelastic X-ray Scattering study	IV-O-22 L.A. Bugaev Atomic structure of PtCu nanoparticles in PtCu/C catalysts prepared by simultaneous and sequential deposition of components on carbon support	XFEL-08 Y. Uemura Femto to Picosecond Transient States of a Photoexcited WO ₃ Photocatalyst		14:40
15:00		VII-O-05 G. Aquilanti Operando XAS study of Li-S batteries		IV-O-23 L. Zhang EXAFS-A Powerful Tool to Determine the Structure of Active Species in Single-atom Catalysts	XFEL-09 D. Zhu Development in Ultrafast X-ray Spectroscopy at the X-ray Pump Probe Instrument of the LCLS		15:00
15:20	Coffee break						15:20

					XFEL XAFS Applications W. Gawelda	
15:40	Earth & Radionuclides T. Reich, M. Boyanov	Nanostructures & Coordination chemistry C. Roth, Y.-L. Soo	Implanted atoms and particles F. Boscherini	Session reserved for special topics	XFEL-10 T. Kroll	15:40
15:50	V-O-18 K. Kvashnina Recent progress in high energy resolution X-ray spectroscopy of actinides	VII-O-06 M. Marcus Asymmetric pathways in the electrochemical conversion reaction of NiO as battery electrode with high storage capacity	VI-O-15 A. Figueroa Local structure and bonding of magnetic dopants in Bi ₂ Se ₃ and Bi ₂ Te ₃ topological insulator thin films	To be announced on short notice	X-Ray Spectroscopy at XFELs – Present and Future	15:50
16:10	V-O-19 B. Mishra Using X-ray Raman to Study Soil Carbon Biogeochemistry	VII-O-07 A. Zitolo XAS spectroscopic fingerprint of the active site in non-precious metal electrocatalysts for PEM fuel cells	VI-O-16 R. Feng EXAFS study on the structural properties of In and In + C implanted Ge		XFEL-11 C. Milne Revealing Charge Carrier Trapping in ZnO nanoparticles with Femtosecond time-resolved X-ray Spectroscopy	16:10
16:30	V-O-20 A. Gaur XAFS study of copper(II) diethylenetriamine complexes having different coordination geometries	VII-O-08 E. Borfecchia A XAS study of the local environment and reactivity of Pt-sites in functionalized UiO-67 MOFs	VI-O-17 M.A. Sahiner Subtle local structural variations in oxygen deficient niobium germanate thin film glasses as revealed by x-ray absorption spectroscopy		XFEL-12 Y. Kayser RIXS spectroscopy at hard XFELs using non-monochromatized SASE pulses	16:30
16:50	V-O-21 M. Vespa X-Ray Absorption Spectroscopic analyses of stable Fe-phases in aged cements	VII-O-09 W. Szczerba On the electronic structure and coordination geometry of iron based metallo-supramolecular coordination polyelectrolytes in working electrochromic devices	VI-O-18 I.A. Kowalik Soft x-ray absorption spectroscopy on Atomic Layer Deposition grown ZnO films		XFEL-13 M. Harmand Matter under extreme conditions probed with ultrafast XANES on FEL facilities	16:50
17:10						XFEL-close out C. Bressler/W. Gawelda
17:20						17:20

Evening break, transition to poster session

18:00	Poster session II					18:00
19:30						19:30

Topic color code

General
III. Advanced Methods
IV. Chemistry, catalysis, operando and time-resolved studies
V. Radionuclides, actinides, earth and environmental
VI. Materials Science
VII. Energy-related materials
XFEL, Industrial Symposia