

| Prop No | Spokesperson | Title | Inst |
|---------|--------------------------|---|----------|
| L-10329 | Young, Linda | CHEMISTRY SCIENCE CAMPAIGN: Radiolysis on the physico-chemical timescale in extreme environments | ChemRIXS |
| L-10379 | Nibbering, Erik | Photoinduced Acid-Base Chemistry | ChemRIXS |
| L-10436 | Khalil, Munira | Capturing Coupled Electronic and Atomic Motions During Excited State Intramolecular Proton Transfer on the Femtosecond Timescale | ChemRIXS |
| L-10439 | Gaffney, Kelly | CHEMISTRY SCIENCE CAMPAIGN: Identifying Design Principles for the Covalent Control of Electronic Excited State Reactivity in Transition Metal Complexes | ChemRIXS |
| X-10117 | Wolf, Thomas | ChemRIXS Early Science | ChemRIXS |
| X-10169 | Kunnus, Kristjan | Run 23 ChemRIXS Commissioning | ChemRIXS |
| X-10178 | Kunnus, Kristjan | Run 23 ChemRIXS Training Camp | ChemRIXS |
| 1008458 | Jonathan Marangos | Probing Intra- and Inter-Molecular Charge Transfer in the Non-Fullerene Acceptor Y6 with Multi-Edge Time-Resolved X-ray Absorption Spectroscopy | ChemRIXS |
| L-10163 | Halavanau, Aliaksei | An X-ray Laser Oscillator at the Copper K-alpha line | CXI |
| L-10187 | Weibel, Catherine | Beyond pair correlations: Measuring higher-order correlations in liquids | CXI |
| L-10253 | Gabalski, Ian | Coherent Control of Bond Formation and Wavepacket Interference with Strong Fields | CXI |
| L-10340 | Weber, Peter | Creating Strained Rings by Tuned Transitions through Conical Intersections | CXI |
| L-10350 | Forbes, Ruairidh | Measuring an Electronic Wave Packet by Ultrafast X-Ray Scattering | CXI |
| L-10376 | Minitti, Michael | Ultrafast X-Ray Pump, X-Ray Probe Imaging of Nuclear Dynamics | CXI |
| L-10384 | Heald, Lauren | Imaging Nuclear Dynamics in Photoexcited Bromoform using Ultrafast X-ray Scattering | CXI |
| LU88 | Zhang, Wenkai | Time resolved dynamics study of chloride ion pumping rhodopsin by SFX | CXI |
| LY31 | Stephan Kuschel | Triggering transient Resonances with short hard X-ray pulses | CXI |
| X-10143 | Cheng, Xinxin (SP) | Exploring fine timing searching techniques at the interaction point of CXI | CXI |
| X-10171 | Liang, Meng | Run 23 CXI Commissioning | CXI |
| X-10180 | Liang, Meng | Run 23 CXI Training Camp | CXI |
| L-10199 | Mcquire, Chris | Impact delivery and storage of water in the deep interior of early Earth | MEC |
| L-10361 | Maria Pia Valdivia Leiva | Visualizing hydrodynamic instabilities at interfaces in IFE foams during shock compression | MEC |
| L-10367 | Pandolfi, Silvia | Shock-induced volatiles chemistry to investigate the composition of the Earth's core | MEC |
| L-10383 | Lee, Sung Keun | Time-resolved dynamic structural transitions in prototypical low-z amorphous oxides under extreme irreversible compression | MEC |
| L-10388 | Kluge, Thomas | Relativistic instabilities in ultra-intense laser interactions with solids | MEC |
| L-10400 | Hutchinson, Trevor | X-ray pumped transient grating spectroscopy of shock compressed planetary materials | MEC |
| L-10425 | Martin, Willow | Equation of state measurements of isochorically-heated polymer foams with x-ray Thomson scattering and fluorescence | MEC |
| L-10462 | Clarke, Samantha | Diffraction-based measurement of high-pressure chemistry | MEC |
| L-10482 | Singh, Saransh | Shock Synthesis of Quasicrystals | MEC |
| L-10484 | Mao, Wendy | Structural and electronic evolution in shock compressed FeOOH and Fe-O-H melt: Implications for deep water cycling in planetary interiors | MEC |
| X-10129 | Nagler, Bob (SP) | Using high magnification Bragg Magnifier to image HED samples | MEC |
| X-10174 | Galtier, Eric | Run 23 MEC Commissioning | MEC |
| X-10184 | Galtier, Eric | Run 23 MEC Training Camp | MEC |
| 1008953 | Vandana Tiwari | Exploring the Integration of Cyclic Voltammetry with X-ray Emission and diffraction for Redox Catalysis: In-operando measurement and Regulation of Oxidation States. | MFx |
| L-10332 | Kern, Jan | BIOLOGICAL SCIENCE CAMPAIGN: Structural dynamics of metalloenzymes that catalyze reactions of small molecules relevant for the energy economy BIOLOGICAL SCIENCE CAMPAIGN: Structural and Chemical Dynamics of Photosystem II During Light-Induced Water-Oxidation and Energy Conversion | MFx |
| L-10353 | Yano, Junko | Short pulsed Time resolved XES and SFX studies on the mechanisms of O=O bond formation and oxygen release in Photosystem II | MFx |
| L-10387 | Fromme, Petra | High-Throughput Fixed-Target SFX for Pharmaceutical Screening | MFx |
| L-10389 | Guenther, Sebastian | Crystal structure determination of silver organoselenolates and silver organotelluroates by small molecule serial femtosecond crystallography | MFx |
| L-10451 | Rousseau, Denis | Structure Studies of Cytochrome c Oxidase with a Combined SFX and XES Approach | MFx |
| L-10477 | Araújo, Evandro | Elucidation of the catalytic mechanism of beta-glucans depolymerization by unconventional glucanases: mapping conformational changes associated with substrate binding and catalytic intermediates in the enzymatic hydrolysis | MFx |
| P-10023 | Kuhl, Tonya | PROTEIN CRYSTAL SCREENING: Characterization and real-time imaging of XFEL beam damage propagation in enclosed polymer fixed target chips | MFx |
| P-10030 | Righi, Martina | PROTEIN CRYSTAL SCREENING: Device testing for electric field-stimulated time-resolved X-ray crystallography (PCS) | MFx |
| P-10033 | Paley, Daniel | High-throughput XFEL service crystallography for chemistry and materials science | MFx |
| P-10035 | Rabe, Patrick | PROTEIN CRYSTAL SCREENING: Exploring kinetic isotope effects (KIE) using tr-SFX and tr-XES with a double-transducer setup | MFx |
| P-10043 | Rama Damodaran, Anoop | PROTEIN CRYSTAL SCREENING: Optimizing Crystals of M. tuberculosis' DosS and DosT Heme-based Oxygen / Redox Sensors | MFx |
| P-10041 | Bhowmick, Asmit | PROTEIN CRYSTAL SCREENING: Towards Predictive modelling of water in biological systems using X-ray diffraction at room temperature | MFx |
| P-10036 | Song, Woon Ju | PROTEIN CRYSTAL SCREENING: Determination of Light-Driven Geometric Progression in Artificial Metalloproteins | MFx |
| P-10044 | Simon, Philipp | PROTEIN CRYSTAL SCREENING: Obtaining high resolution structures of Photosystem I isolated from mesophilic cyanobacterium PROTEIN CRYSTAL SCREENING: Understanding Heme-copper oxidases: Elucidation of electronic and geometric structural changes in the catalytic cycle by using XRD at room temperature | MFx |
| P-10040 | Lu, Yi | PROTEIN CRYSTAL SCREENING: Understanding Dimetallic Cofactor Maturation in Non-heme Dimetallic Oxygenases | MFx |
| P-10042 | Rittle, Jonathan | PROTEIN CRYSTAL SCREENING: Initial structural studies on de novo-designed energy and electron transfer proteins for time-resolved SFX | MFx |
| X-10131 | Hansson, Conny (SP) | ePixHR35kHz detector beamline evaluation | MFx |
| X-10132 | Hansson, Conny (SP) | Characterization and calibration of the ePixHRM5kHz (RIXS) and the ePixHR5kHz (TXI) detectors. | MFx |
| X-10136 | Dehe, Sebastian (SP) | Commissioning fast mixing experiments using droplet on demand sample delivery using spectroscopy and scattering | MFx |
| X-10172 | Gee, Leland | Run 23 MFx Commissioning | MFx |
| X-10182 | Gee, Leland | Run 23 MFx Training Camp | MFx |
| X-10175 | Dakovski, Georgi | Run 23 qRIXS Commissioning | qRIXS |
| X-10187 | Dakovski, Georgi | qRIXS Validation: Tracing Zhang-Rice singlet dynamics in a one-dimensional cuprate | qRIXS |
| L-10343 | Calegari, Francesca | Charge migration and electron nuclear coupling in aromatic amino acids: a site-selective and comparative study | TMO |
| L-10345 | Simon, Marc | (Time-)Resolving the clockwork of the core-hole clock with attosecond pulses | TMO |
| L-10368 | Guehr, Markus | Understanding the efficient photosensitivity and photocatalytic properties of xanthone and its derivatives from time-resolved X-ray photoelectron spectroscopy | TMO |
| L-10396 | Ullrich, Susanne | Mechanistic Insights into the Intersystem Crossing and Triplet State Dynamics of 2-Thiouacil | TMO |
| L-10437 | Driver, Taran | Attosecond Shaping of Electronic Wavepackets | TMO |
| L-10450 | Green, Alice | Direct Probing of Ultrafast Photochemistry of Cyclic Carbonyl Following Excitation of its Weak UV-B Absorption | TMO |
| L-10458 | Summers, Adam | Attosecond Core Level X-ray Spectroscopy of Strongly Driven Solids | TMO |
| L-10470 | Rudenko, Artem | Real-time measurement of sub-femtosecond charge migration triggered by site-specific inner-shell ionization | TMO |
| X-10093 | Cryan, James | TMO Early Science: Investigating ultrafast intersystem crossing in organic push-pull molecules by X-ray absorption | TMO |
| X-10096 | Cryan, James | TMO Technical Validation: Single Pulse XLEAP (Raman) | TMO |
| X-10168 | Cryan, James | Run 23 TMO Commissioning | TMO |

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| X-10177 | Cryan, James | Run 23 TMO Training Camp | TMO |
| X-10176 | Aquila, Andrew | Run 23 TXI Commissioning | TXI |
| X-10186 | Aquila, Andrew | Run 23 TXI Training Camp | TXI |
| 1006385 | Burak Guzelturk | Ultrafast manipulation of freestanding thin ferroic films and their heterostructures | UED |
| 1006388 | Shuai Wei | Anomalous fast dynamics in GeSe and GeTe | UED |
| 1006446 | Michael Zuerch | Ultrafast manipulation of chiral charge density waves | UED |
| 1006451 | Simon Marotzke | Ultrafast dynamics of charge correlations in a self-stacked van der Waals heterostructure | UED |
| 1006461 | Archana Raja | Tuning Interlayer Charge and Thermal Transport in TMDC Heterostructures with Strain Engineering | UED |
| 1006471 | Zongqi Shen | THz-excited chiral phonons in a 2D antiferromagnet | UED |
| 1006477 | Nuri Yazdani | Enhanced Electron-Phonon Coupling in Soft, Disordered Perovskites | UED |
| 1006484 | Min Gu Kang | Ultrafast control over competing charge orders in kagome lattice materials | UED |
| 1006496 | Vladimir Stoica | Elucidating the Light-induced Enhancement of Charge Density Waves in a Topological Semimetal | UED |
| 1008047 | Mo, Mianzhen | LUED Theme 2 Colloids, Fragmentation and water response of Au | UED |
| 1008048 | Lin, Ming-Fu | LUED Theme 3 H2O ionization, Structure of electrons in water and salt-in-water | UED |
| 1008049 | Liu, Yusong | LUED Theme 4 Solutions & Dilute Systems, Photochemistry in solution phase. | UED |
| L-10240 | Hua, Nelson | Ultrafast Electronic and Structural Domain Fluctuations Behind the Verwey Transition in Magnetite | XCS |
| L-10284 | Sirica, Nicholas | Revealing the Microscopic Origin of the Photoinduced Metal-to-Insulator Transition in Charge Ordered Manganites | XCS |
| L-10296 | Kim, Hyunju | A Time-resolved Bragg Coherent Diffraction Study of Ultrafast Polaronic Lattice Distortions in nanoscale Perovskite-oxides Relating Photochemical Pathways to Oxygen Evolution in Molecular Cobalt Cubanes Using Ultrafast X-ray Emission Spectroscopy and Solution Scattering | XCS |
| L-10351 | Mara, Michael | | XCS |
| L-10362 | Mitterer, Kerstin | Structural characterization of the singlet fission process in tetracene dimers following photoexcitation | XCS |
| L-10410 | Cao, Yue | Spatial resolved evolution of shear strain in topological insulators observed through time-resolved dark field X-ray microscopy | XCS |
| L-10416 | Pal, Dayeeta | A New View of Defect Dynamics in Materials | XCS |
| L-10433 | Teitelbaum, Samuel | Electronic Quench Engineering of a Hidden Photoinduced State | XCS |
| L-10459 | Rao, Roopali | Fluctuations of structural and electronic order parameters near phase transition in nickelates | XCS |
| L-10490 | Follmer, Alec | BIOLOGICAL SCIENCE CAMPAIGN: Structural and Dynamic Basis for Quantum Effects in Enzyme Catalysis - ongoing campaign | XCS |
| X-10088 | Wu, Juhao (SP) | Thermal-acoustic effect characterization and mitigation | XCS |
| X-10151 | Seaberg, Matthew (SP) | Machine Learning-based Alignment of the Hard X-ray Split and Delay System | XCS |
| X-10167 | Turner, Joshua (SP) | Putting XPCS on the Map: A Benchmark using the Quantum Spin-1/2 Lattice | XCS |
| X-10173 | Chollet, Matthieu | Run 23 XCS Commissioning | XCS |
| X-10183 | Chollet, Matthieu | Run 23 XCS Training Camp | XCS |
| L-10023 | Scheller, Vanessa | Ultrafast Nonequilibrium Dynamics of Water under Strong-field Librational Excitation | XPP |
| L-10271 | Chen, Zhantao | Controlling Weyl-fermion magnetic fluctuation coupling with ultrafast laser excitation | XPP |
| L-10294 | Cao, Yue | Establishing time-resolved coherent Bragg rod analysis (tr-COBRA) at XPP | XPP |
| L-10336 | Staub, Urs | Dynamical multiferroicity in a perovskite | XPP |
| L-10360 | Strucka, Jergus | High-resolution Radiography of the Electrothermal Instability Growth at the Sub-Micrometer Level from Single Defects to Collective Behavior | XPP |
| L-10366 | Inoue, Ichiro | Harnessing attosecond pulses for damage-free measurement of nonlinear X-ray processes with enhanced cross-sections | XPP |
| L-10454 | Gopalan, Venkatraman | MATERIALS SCIENCE CAMPAIGN: Fluctuations, Emergence and Dynamics of Complex Topological Supertextures by Design | XPP |
| L-10469 | Singer, Andrej | Unlocking New Structural Phases in ABO3 Perovskites by Coherently Driving Zone-Edge Phonons | XPP |
| L-10483 | Singer, Andrej | Time-resolved imaging of non-equilibrium nanoscale periodic textures in a Mott insulator | XPP |
| L-10485 | Ornelas-Skarin, Chance | Imaging Optically-driven Electron Dynamics on the Atomic-scale | XPP |
| X-10155 | Sun, Yanwen (SP) | CITIUS Detector Evaluation with the LCLS Nanosecond Two-Bunch Mode | XPP |
| X-10161 | Porter, Zachary (SP) | Commissioning nano-focus optics for scanning scattering and spectroscopy capability | XPP |
| X-10164 | Prinz, Alyssa (SP) | Test of Prototype Burn-Through Monitors for LCLSII-HE | XPP |
| X-10170 | Sato, Takahiro | Run 23 XPP Commissioning | XPP |
| X-10179 | Sato, Takahiro | Run 23 XPP Training Camp | XPP |