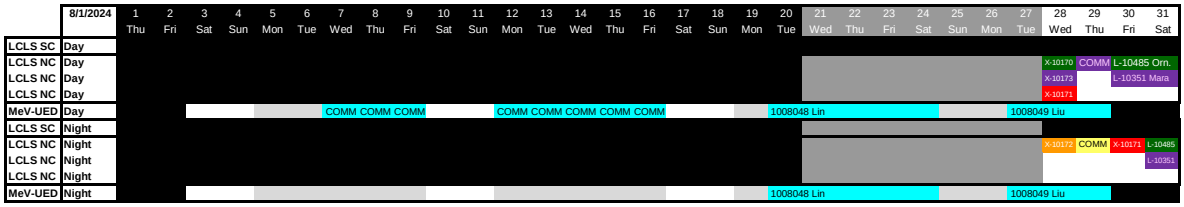
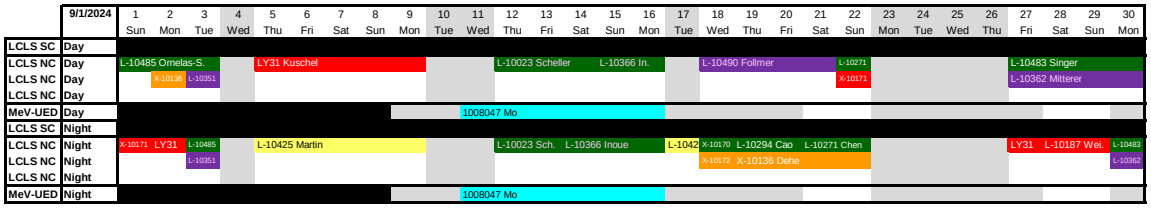
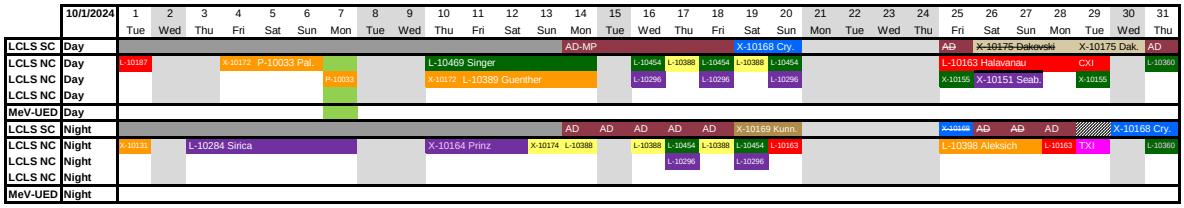
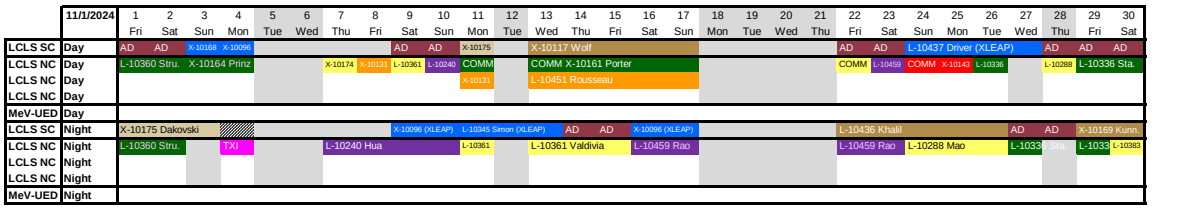
LCLS Run 23 and MeV-UED Run 5 Schedules

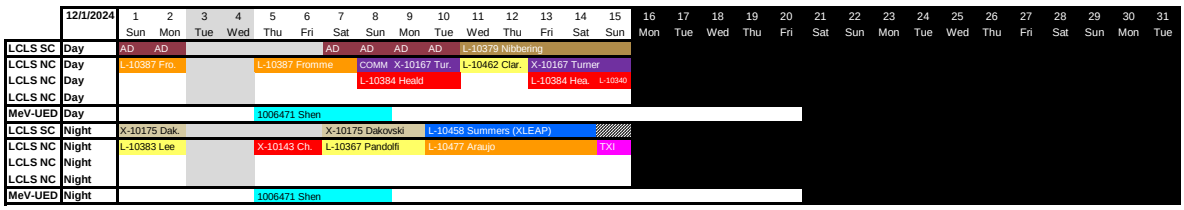
Ver 5: 11/12/2024

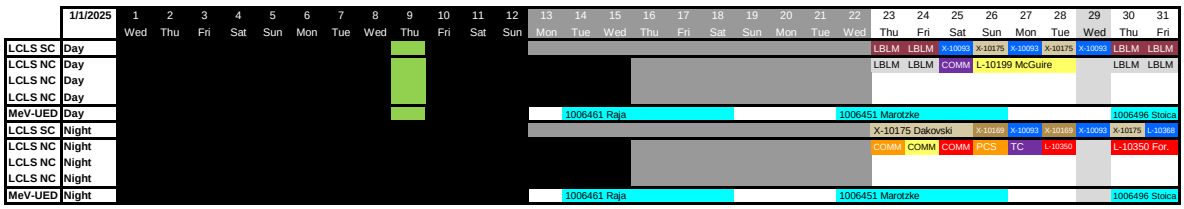


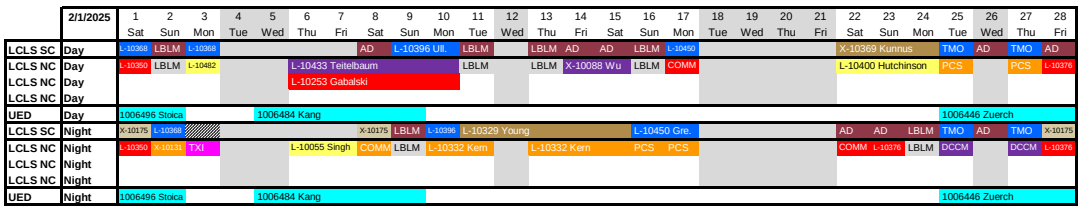


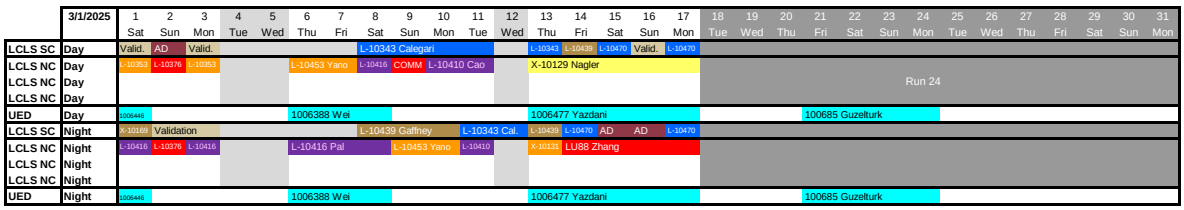












TMO TXI ChemRIXS qRIXS XPP XCS MFX CXI MEC UED Safety Pause AD MD Startup Down

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
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, Ruaridh	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	Mcguire, 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
L-10332	Kern, Jan	**BIOLOGICAL SCIENCE CAMPAIGN**: Structural dynamics of metalloenzymes that catalyze reactions of small molecules relevant for the energy economy	MFX
L-10353	Yano, Junko	**BIOLOGICAL SCIENCE CAMPAIGN**: Structural and Chemical Dynamics of Photosystem II During Light-Induced Water-Oxidation and Energy Conversion	MFX
L-10387	Fromme, Petra	Short pulsed Time resolved XES and SFX studies on the mechanisms of O=O bond formation and oxygen release in Photosystem II	MFX
L-10389	Guenther, Sebastian	High-Throughput Fixed-Target SFX for Pharmaceutical Screening	MFX
L-10398	Aleksich, Mariya	Crystal structure determination of silver organoselenolates and silver organotellurolates 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	MFX
P-10040	Lu, Yi	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-10042	Rittle, Jonathan	PROTEIN CRYSTAL SCREENING: Understanding Dimetallic Cofactor Maturation in Non-heme Dimetallic Oxygenases	MFX
P-10039	Ennist, Nathan	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-Thiouracil	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
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

Prop No	Spokesperson	Title	Inst
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, Hyunjung	A Time-resolved Bragg Coherent Diffraction Study of Ultrafast Polaronic Lattice Distortions in nanoscale Perovskite-oxides	XCS
L-10351	Mara, Michael	Relating Photochemical Pathways to Oxygen Evolution in Molecular Cobalt Cubanes Using Ultrafast X-ray Emission Spectroscopy and Solution Scattering	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