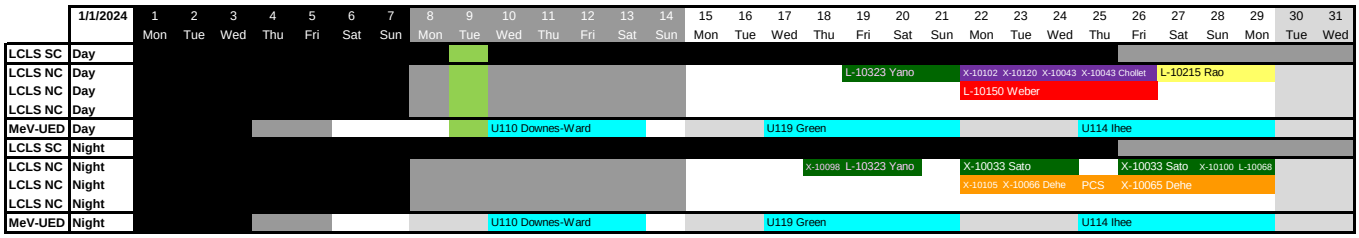
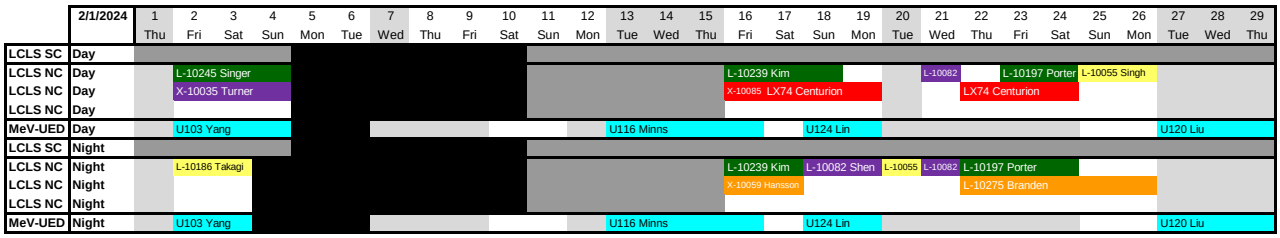
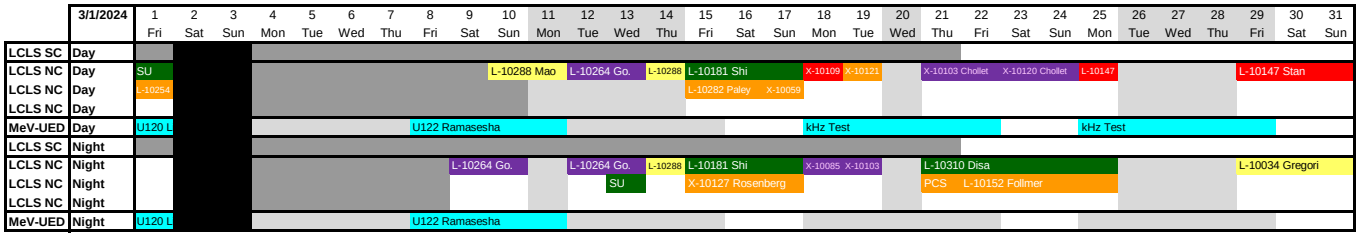
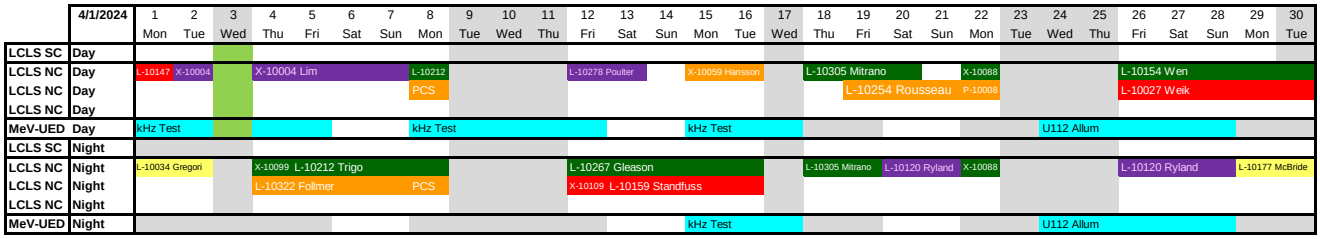
LCLS Run 22 and MeV-UED Run 4 Schedules

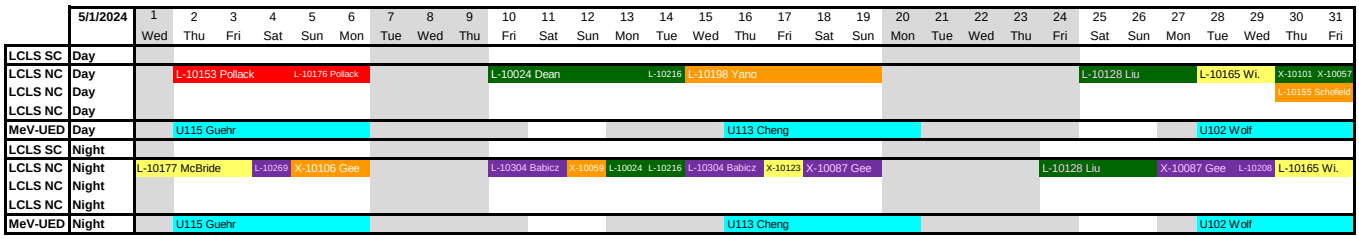
Ver 10: 07/02/2024

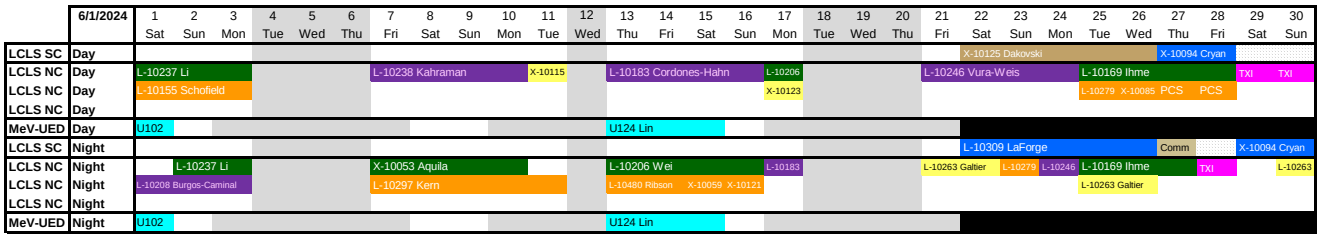


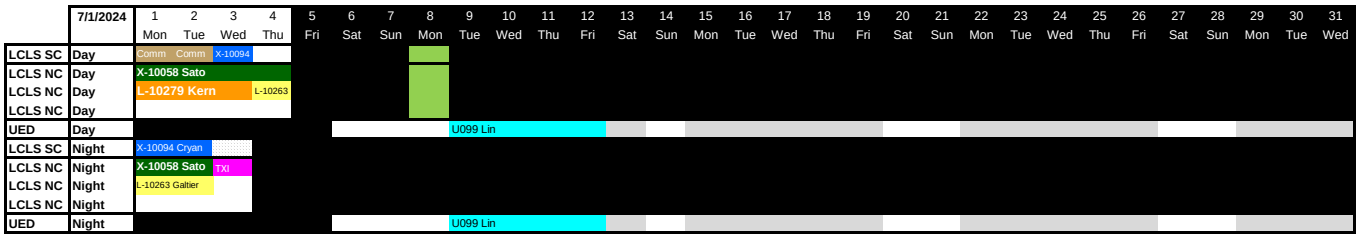












TMO TXI ChemRIXS qRIXS XPP XCS MFX CXI MEC UED Safety Pause MD Startup Down

Prop No	Spokesperson	Title	Inst
L-10016	Araújo, Evandro	**PROTEIN CRYSTAL SCREENING**: Mapping of conformational changes associated with substrate binding and catalytic intermediates in the hydrolysis of beta-glucans by Time-Resolved Serial Crystallography	MFX
L-10024	Dean, Mark	Accessing dipole-forbidden photoexcited states in quantum materials	XPP
L-10027	Weik, Martin	Structural dynamics of a new photoreceptor to be addressed by time-resolved serial femtosecond crystallography on the ns ñ ps timescale	CXI
L-10034	Gregori, Gianluca	Effective Transport Coefficients in Extreme Dynamic Materials	MEC
L-10053	Pollack, Lois	Completing studies of time-resolved nucleic acid structural dynamics with solution scattering and mixing injectors	CXI
L-10055	Singh, Saransh	Shock Synthesis of Quasicrystals	MEC
L-10082	Shen, Lingjia	Picosecond Anomalous Acoustic Phonon Reconstruction close to the Long Wavelength Limit	XCS
L-10120	Ryland, Elizabeth	Identifying the role of a catalytic subunit in multielectron accumulation by covalently linked bimetallic assemblies	XCS
L-10128	Liu, Sen	Initial stage nucleation observation for laser additive manufacturing	XPP
L-10147	Stan, Claudiu	Dynamic structural properties of ice formed in supercooled water	CXI
L-10150	Weber, Peter	Creating Strained Rings by Tuned Transitions through Conical Intersections	CXI
L-10152	Follmer, Alec	**BIOLOGICAL SCIENCE CAMPAIGN**: Structural and Dynamic Basis for Quantum Effects in Enzyme Catalysis ñ ongoing campaign	MFX
L-10154	Wen, Haidan	Unraveling ultrafast spin-lattice coupling in vdW antiferromagnets via mode-selective terahertz excitation	XPP
L-10155	Schofield, Christopher	Time-resolved SFX, XES and UV/Vis studies on the 2OG dependent enzymes Phd2, AspH, AlkB and CAS and the structurally related enzyme IPNS	MFX
L-10159	Standfuss, Joerg	Ligand Dissociation Dynamics in the beta-2 adrenergic receptor	MFX
L-10165	Willey, Trevor	Mechanism of Nanodiamond Formation During High Explosive Detonation	MEC
L-10169	Ihme, Matthias	A molecular pin-ball machine: Examining intercluster-exchange processes and hyperdiffusivity of binary mixtures at transcritical conditions	XPP
L-10176	Pollack, Lois	Data Set Collection: Time-resolved studies of a triple helical motif that regulates RNA stability	CXI
L-10177	Mcbride, Emma	Direct measurements of temperature, density, and transport properties of shock-compressed liquid silicon	MEC
L-10181	Shi, Jiaojian	Opto-mechanical-driven topological phase transition in SnSe	XPP
L-10183	Cordones-Hahn, Amy	**CHEMISTRY CAMPAIGN**: Identifying Design Principles for the Covalent Control of Electronic Excited State Reactivity in Transition Metal Complexes	XCS
L-10186	Takagi, Sota	Metastable shock-synthesis of the seifertite phase of SiO2	MEC
L-10197	Porter, Ilana	Toward Next Generation Photovoltaics: Unique Lattice Dynamics in a Visible-Light-Absorbing Ferroelectric	XPP
L-10198	Yano, Junko	**BIOLOGICAL SCIENCE CAMPAIGN**: Structural and Chemical Dynamics of Photosystem II During Light-Induced Water-Oxidation and Energy Conversion	MFX
L-10206	Wei, Shuai	Direct probing the atomic-scale relaxation dynamics during a fragile-strong liquid transition using split-and-delay femtoseconds XPCS	XPP
L-10208	Burgos-Caminal, Andrès	Disentangling the exciton dynamics and hole localization in colloidal CuInS2 quantum dots	XCS
L-10212	Trigo, Mariano	**MATERIALS SCIENCE CAMPAIGN**: Nonlinear couplings among collective modes in quantum materials	XPP
L-10215	Rao, Roopali	Ultrafast studies on non-equilibrium dynamics at ultrahigh pressures in doped silicate glasses	MEC
L-10216	Dean, Mark	Ultrafast Orbital Interferometry in Iridates	XPP
L-10237	Li, Haoyuan	Mesoscopic Heat Propagation in Semiconductors with Hard X-Ray Transient Grating	XPP
L-10238	Kahraman, Abdullah	Tracking solvent motions driving electron and proton transfer with ultrafast X-ray solution scattering	XCS
L-10239	Kim, Soyeun	Uniaxial strain stabilization of transient photoinduced order in rare-earth tritellurides	XPP
L-10245	Singer, Andrej	Time-resolved imaging of non-equilibrium nanoscale periodic textures in a Mott insulator	XPP
L-10246	Vura-Weis, Joshua	Tracking Changes in Electronic Spin and Nuclear Geometry Following Metal-to-Metal Charge Transfer	XCS
L-10254	Rousseau, Denis	Snapshots of Oxygen Intermediates of Cytochrome c Oxidase	MFX
L-10263	Galtier, Eric	Relativistic electron beam transport in silicon	MEC
L-10264	Gopalan, Venkatraman	**MATERIALS SCIENCE CAMPAIGN**: Fluctuations, Emergence and Dynamics of Complex Topological Supertextures by Design	XCS
L-10267	Gleason, Arianna	3D Tomo-Ptychography of Foams for Radiation-Hydrodynamics and Fusion Studies	XPP
L-10269	Powers-Riggs, Natalia	Tracking solvent reorganization upon metal-to-ligand charge transfer in [RU(CN)4(BPY)]2-	XCS
L-10275	Branden, Gisela	Time-resolved serial femtosecond crystallography studies of the reduction of oxygen to water by cytochrome c oxidase	MFX
L-10279	Laible, Phillip	Monitoring the ultrafast structural dynamics coupled to charge separation in photosynthetic reaction centers: Why are photosynthetic reaction centers so efficient?	MFX
L-10282	Paley, Daniel	High-throughput XFEL service crystallography for chemistry and materials science	CXI
L-10283	Gilbert, Nathaniel	Data set collection of human 5-lipoxygenase at room temperature	MFX
L-10288	Mao, Wendy	Structural and electronic evolution in shock compressed FeOOH and Fe-O-H melt: Implications for deep water cycling in planetary interiors	MEC
L-10297	Kern, Jan	**BIOLOGICAL SCIENCE CAMPAIGN**: Structural dynamics of metalloenzymes that catalyze reactions of small molecules relevant for the energy economy	MFX
L-10304	Babicz, Jeffrey	Ultrafast Photochemical and Photophysical Investigations of Light-Driven Diiron Hydrogen Evolution Catalysts	XCS
L-10305	Mitrano, Matteo	Probing hydrodynamics of charge order fluctuations in the square-planar nickelate La4Ni3O8	XPP
L-10309	Aaron LaForge (SP)	Unveiling hidden isomers in ultrafast molecular processes using time-resolved photoelectron spectroscopy	TMO
L-10310	Disa, Ankit	Helicity-dependent optical control of ferroaxial order in RbFe(MoO4)2	XPP
L-10322	Follmer, Alec	**BIOLOGICAL SCIENCE CAMPAIGN**: Structural and Dynamic Basis for Quantum Effects in Enzyme Catalysis ñ ongoing campaign	MFX
L-10323	Yano, Junko	**BIOLOGICAL SCIENCE CAMPAIGN**: Structural and Chemical Dynamics of Photosystem II During Light-Induced Water-Oxidation and Energy Conversion	XPP
L-10480	Ribson, Ryan (SP)	Nitric Oxide Reactivity with [2Fe-2S] Cluster to Study NO Signaling	MFX
LX74	Martin Centurion	Imaging roaming mediated dynamics in halogenated alkanes by ultrafast X-ray scattering	CXI
P-10005	Jose Martin Garcia (SP)	**PROTEIN CRYSTAL SCREENING**: Preliminary SFX experiments of the PBP2a: A medically relevant protein from methicillin-resistant Staphylococcus aureus	MFX
P-10009	Anoop Rama Damodaran (SP)	**PROTEIN CRYSTAL SCREENING**: Optimizing Crystals of M. tuberculosis' DosS Heme Sensor for XFEL Studies	MFX
P-10016	Yi Lu (SP)	**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-10019	Michael Brown (SP)	**PROTEIN CRYSTAL SCREENING**:Rhodopsin Activation Investigated with Time-Resolved Serial Crystallography	MFX
P-10024	Philip Laible (SP)	**PROTEIN CRYSTAL SCREENING**: Obtaining high resolution structures of the purple bacterial photosynthetic Reaction Center	MFX
P-10025	Hiroki Makita (SP)	**PROTEIN CRYSTAL SCREENING**: Obtaining high resolution structures of Photosystem I	MFX
P-10027	Martin Garcia, Jose	**PROTEIN CRYSTAL SCREENING**: Initial structural studies on flavoproteins from the photosynthetic cyanobacteria Anabaena and the pathogen Brucella ovis at XFELs	MFX
P-10029	Schriber, Elyse	**PROTEIN CRYSTAL SCREENING**: Improving small-molecule serial femtosecond crystallography data collection efficiency using drop-on-demand sample delivery	MFX
SU	Sato, Takahiro (SP)	Stanford AP222 Class	XPP
X-10004	Lim, Jinkyu (SP)	Commissioning of R&D Polycapillary XAS Spectrometer for Extremely Dilute Samples	XCS
X-10033	Sato, Takahiro (SP)	Commissioning of multi-functional laser in-coupling chamber with higher spatial/spectral resolution options	XPP
X-10035	Turner, Joshua (SP)	Putting XPCS on the Map: A Benchmark using the Quantum Spin-1/2 Lattice	XCS
X-10043	Matthieu Chollet	XCS Commissioning	XCS
X-10053	Aquila, Andrew (SP)	X-ray Quantum Imaging	XPP
X-10057	Li, Haoyuan (SP)	Development of Bayesian-Optimization Method for Enabling Efficient Auto-Alignment of the Hard X-ray Split-Delay Optics	XPP
X-10058	Sato, Takahiro (SP)	Development of time-energy resolved real-space nano-imaging capability using reflective X-ray optics at XPP	XPP

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X-10059	Hansson, Conny (SP)	ePixHR35kHz detector beamline evaluation	MFX
X-10065	Dehe, Sebastian (SP)	Commissioning droplet on demand sample delivery for mixing experiments using spectroscopy and scattering	MFX
X-10066	Dehe, Sebastian (SP)	Commissioning droplet on demand sample delivery for pump / probe experiments	MFX
X-10085	Glownia, James (SP)	LCLS instrument response testing	XCS
X-10087	Gee, Leland (SP)	Demonstration of Tunable Self-Seeding Scans to Enable Ultrafast Dilute XAS and EXAFS Spectroscopy Experiments	XCS
X-10088	Wu, Juhao (SP)	Thermal-acoustic effect characterization and mitigation	XPP
X-10094	James Cryan (SP)	TMO Early Science: Dynamics of Core-Excited States probed by X-ray Observables	TMO
X-10098	Takahiro Sato	XPP Overall Readiness	XPP
X-10099	Takahiro Sato	XPP Low-T Chamber Readiness	XPP
X-10100	Takahiro Sato	XPP In-Air Diffraction Readiness	XPP
X-10101	Yanwen Sun	XPP Mini Split and Delay Readiness	XPP
X-10102	Matthieu Chollet	XCS Overall Readiness	XCS
X-10103	Matthieu Chollet	XCS Liquid Jet Readiness	XCS
X-10105	Leland Gee	MFX Overall Readiness	MFX
X-10106	Leland Gee	MFX Droplet-on-Tape Readiness	MFX
X-10109	Meng Liang	CXI SC1 SFX Readiness	CXI
X-10112	Eric Galtier	MEC Overall Readiness	MEC
X-10115	Eric Galtier	MEC Short Pulse Laser High Intensity Readiness	MEC
X-10120	Matthieu Chollet	XCS Training Camp	XCS
X-10121	Leland Gee	MFX Training Camp	MFX
X-10123	Eric Galtier	MEC Training Camp	MEC
X-10125	Georgi Dakovski	chemRIXS commissioning with LCLS-II	ChemRIXS
X-10127	Rosenberg, Daniel	Method development for High-Throughput Mail-in small-molecule serial femtosecond crystallography at LCLS	MFX
U099	Lin, Ming-Fu	Direct imaging of the Fe-N reaction center and ligand motions in a Metalloporphyrin (Fe(III)TPPCl)	UED
U100	Weber, Peter	Ultrafast Ring Conformer Reactions	UED
U101	Centurion, Martin	Ultrafast imaging of the formation of highly strained cyclic molecules	UED
U102	Wolf, Thomas	Photochemical dynamics of provitamin D	UED
U103	Yang, Jie	Capturing the Photoinduced Retro-Diels-Alder Reaction Dynamics of Norbornene and Cyclohexene	UED
U108	Forbes, Ruaridh	Structural imaging of concerted ring-opening and photodissociation dynamics: Iodothiophenes	UED
U110	Downes-Ward, Briony	Photodissociation of Isoxazole Imaged by Electron Diffraction	UED
U112	Allum, Felix	Ultrafast Imaging of Photoinduced Hydrogen Transfer and Structural Rearrangement in Ortho-nitrobenzaldehyde	UED
U113	Cheng, Xinxin	Intramolecular rotation and charge transfer dynamics of DMABN	UED
U114	Ihee, Hyotcherl	Direct observation of photoinduced retro-Diels Alder reaction	UED
U115	Guehr, Markus	Isolated nucleobase UED studies for understanding photoprotection	UED
U116	Minns, Russell	Structural dynamics of synthetic pathways in photochemistry	UED
U119	Green, Alice	Structural Insight into Norrish Type-I Reactions of Cyclobutanone	UED
U120	Liu, Yusong	Multimodal probing of photochemical reactivity: aromatic carbonyls	UED
U122	Ramasesha, Krupa	Photoisomerization vs. Ring-Open Intermediates in 1,3,5-Triazine	UED
U124	Lin, Ming-Fu	High Temperature Slit Jet commissioning: science case study on trans-cis azobenzene isomerization	UED