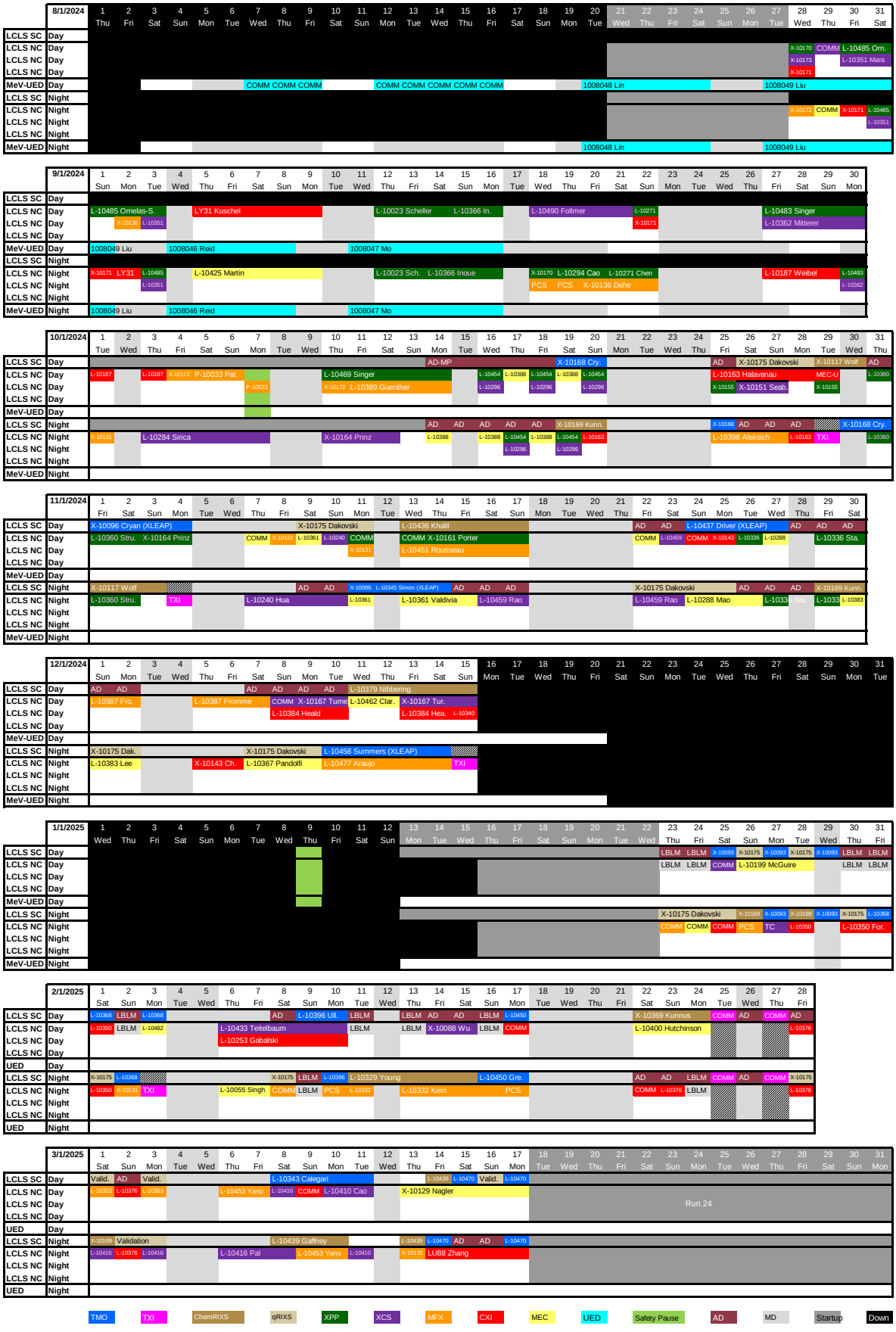
LCLS Run 23 and MeV-UED Run 5 Schedules

Ver 2: 08/20/2024



Prop No	Spokesperson	Title	Inst
L-10329	Young, Linda	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-10033	Paley, Daniel	High-throughput XFEL service crystallography for chemistry and materials science	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-10185	Dakovski, Georgi	Run 23 qRIXS Training Camp	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
1008046	Reid Alex	LUED Theme 1 Neat Liquids, Kerr-induced reorientation dynamics	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

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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