

Prop No	Spokesperson	Category	Title	POC	Inst
1012318	Munira Khalil	General User	Probing Electron Density Motion in Real Time across a Donor-Bridge-Acceptor Interface with Femtosecond Iron L-edge X-ray Absorption Spectroscopy	Hoffman	chemRIXS
1012359	Linda Young	Campaign	Radiolysis on the physico-chemical timescale in extreme environments	Garratt	chemRIXS
1012375	Erik T.J. Nibbering	General User	Femtosecond XAS and RIXS Probing of Nitrene: Unveiling Reactivity from Transient Electronic Structure through the Dynamics of Photoinduced Azide Bond Fission	Kunuss	chemRIXS
1012598	Kelly Gaffney	Campaign	Identifying Design Principles for the Covalent control of Electronic Excited State Reactivity in Transition Metal Complexes – ongoing campaign	Kunuss	chemRIXS
1012651	Benjamin Van Kuiken	General User	Identifying the Photoactivation Pathway of Molecular Ruby by 2p3d RIXS Spectroscopy	Garratt	chemRIXS
1013312	Khalil, Munira	General User	Capturing Coupled Electronic and Atomic Motions During Excited State Intramolecular Proton Transfer on the Femtosecond Timescale	Hoffman	ChemRIXS
1013457	Kristjan Kunuss	In-House	ChemRIXS liquid standard configuration check-out	Kunuss	chemRIXS
1014041	Junko Yano	Campaign	Structural and Chemical Dynamics of Photosystem II During Light-Induced Water-Oxidation and Energy Conversion	Hoffman	chemRIXS
1012608	Stephen Bradforth	General User	Exploring the Effects of Sugar Conformation on Thymidine Excited States	Garratt	ChemRIXS
1011686	Peter M. Weber	DC&S	Ultrafast ring conformer reactions of N-methyl piperidine using X-ray scattering	Cheng	CXI
1012049	Martin Centurion	DC&S	Imaging the ultrafast interconversion reaction of Norbornadiene to Quadricyclane	Miniti	CXI
1012124	Dominik Oberthuer	DC&S	Structural biology of anthelmintic proteins using native nano crystals	Mous	CXI
1012159	Thomas Wolf	DC&S	Photo-initiated structural dynamics of dihydrofuran: a joint theory and multi-modal experimental study	Cheng	CXI
1012310	Martin Centurion	General User	Ultrafast imaging of molecular dynamics in intense laser fields	Cheng	CXI
1012330	Thomas Wolf	General User	Mechanistic Insight into Photoinduced Structural Evolution of Furfural and Derivatives	Cheng	CXI
1012354	Jasper J. van Thor	General User	Femtosecond serial chemical crystallography of Frenkel-CT exciton transition charge dynamics for optoelectronics	Mous	CXI
1012581	Andrew Aquila	General User	Stimulated Inelastic X-ray Scattering	Baxter	CXI
1013420	Xinxin Cheng	In-House	Exploring jet-type of gaseous sample delivery methods in CXI	Miniti	CXI
1013471	Mengning Liang	In-House	CXI gas phase commissioning	Cheng	CXI
1013472	Mengning Liang	In-House	CXI liquid jet commissioning	Mous	CXI
1013473	Mengning Liang	In-House	CXI nanofocus commissioning	Liang	CXI
1011629	Hiroshi Sawada	General User	Dynamics of Fast Electron Isochoric Heating in Solid-Density Matter	Galtier	MEC
1012075	Sang-Heon Shim	General User	Spin Transition of Fe in Ferroprecipitate in the Deep Mantles of Earth and super-Earths	Lee	MEC
1012095	Dirk Gericke	General User	Measuring the Sound Speed of Iron: From Giant Impacts to the Protolunar Disk	Nagler	MEC
1012164	Sam M. Vinko	General User	Spectroscopic Measurement of Attosecond Electron Collisional Dynamics IFE Priority Research Opportunity: Time-resolved homogenization of polymer foams with X-ray Thomson scattering, fluorescence, and Talbot-interferometry	Khaghani	MEC
1012169	Willow Moon Martin	General User	Direct observation of phonon hardening in ultrafast optically-pumped copper using High-resolution Inelastic X-ray Scattering	Galtier	MEC
1012351	Adrien Descamps	General User	Shock Response of BCC-structured High Entropy Alloys: From Disorder to Discovery	Nagler	MEC
1012383	Melissa Sims	DC&S	Shock Response of BCC-structured High Entropy Alloys: From Disorder to Discovery	N/A	MEC
1012473	Silvia Pandolfi	DC&S	Real-time examination of hydrogen incorporation and hydrides formation under shock compression	Lee	MEC
1012563	Sally June Tracy	General User	Melting and phase transformations in amorphous boron carbide Inertial Fusion Energy ablaters	Galtier	MEC
1012656	Raymond Smith	DC&S	Determination of the extent of X-ray heating, and the minimum liquid diffraction detectability in standard long pulse experiments at MEC	Nagler	MEC
1012666	Hae Ja Lee	DC&S	Proof-of-principle demonstration of Plasmon dispersion at metallic liquid phase using 17 keV monochromatic beam	Nagler	MEC
1012696	Christopher McGuire	DC&S	Shock synthesis of nanocrystalline MgO from hydrous silicates and hydroxides	Khaghani	MEC
1013376	Dimitri Khaghani	In-House	Characterization of the VAREX wide-area x-ray detectors for standard configuration XRD experiments at the MEC instrument	Nagler	MEC
1013377	Dimitri Khaghani	In-House	Enabling simultaneous long-pulse/short-pulse laser operation at MEC for studying radiative processes in hot dense matter	Galtier	MEC
1013422	Eric Galtier	In-House	Training camp for MEC operation	Khaghani	MEC
1013423	Eric Galtier	In-House	Preparation for MEC standard configuration using the Long Pulse Laser	Lee	MEC
1013424	Eric Galtier	In-House	Preparation for experiments using the MEC Short Pulse Laser	Galtier	MEC
1013425	Eric Galtier	In-House	Measurement of the MEC beamline throughput	Galtier	MEC
1013426	Eric Galtier	In-House	Calibration of the Ge emission spectrometer	Lee	MEC
1013427	Eric Galtier	In-House	Diamond window throughput characterization	Lee	MEC
1008455	Alexandra Ros	General User	Towards deciphering the redox mechanism of the human flavoenzyme NQO1 using mix-and-inject segmented droplet injection with minimized sample consumption	Schleissner	MFX
1011843	Kartik Ayyer	General User	Resolving the crystal structure of a light-induced room-temperature superconductor	Schriber	MFX
1012110	Thomas Lane	General User	Charge separation and photoreduction of a CPD photolyase	Baxter	MFX
1012327	Elyse Schriber	General User	Multi-user high-throughput small-molecule serial femtosecond crystallography at the LCLS	Rosenberg	MFX
1012467	Stephen Ragsdale	DC&S	Structural Characterization of the Ni(I)-active Methyl-Coenzyme M Reductase: Nature's Catalyst for Methane Synthesis, Activation, and Oxidation	Schleissner	MFX
1012590	Sarah EJ Bowman	DC&S	Tuning crystal growth for XFEL experiments: Applications to radiation sensitive metalloproteins	Mous	MFX
1012624	Asmit Bhowmick	DC&S	Towards Predictive modelling of water in biological systems using X-ray diffraction at room temperature	Tiwari	MFX
1012627	Alec Follmer	Campaign	Structural and Dynamic Basis of Quantum Effects in Enzyme Systems	Dehe	MFX
1012641	Jonathan Rittle	DC&S	Understanding Dimetallic Cofactor Maturation and Oxygen Activation in Non-heme Dimetallic Oxygenases Structural & Mechanistic Characterization of Dynamic Enzymes in the Methyl Cycle: Biocatalytic Methylation in Cobalamin-dependent Methionine Synthase	Schleissner	MFX
1012693	Markos Koutmos	DC&S	Towards Predictive modelling of water in biological systems using X-ray diffraction at room temperature	Tiwari	MFX
1012695	Junko Yano	Campaign	Structural and Chemical Dynamics of Photosystem II During Light-Induced Water-Oxidation and Energy Conversion	Rosenberg	MFX
1012700	Juan-Pablo Correa-Baena	DC&S	Investigating Organic-Inorganic Interactions in 2D Halide Perovskite Lattices and Effects on Exciton Phonon Interactions	Seaberg	MFX
1012707	Jan Kern	Campaign	Structural dynamics of metalloenzymes that catalyze reactions of small molecules relevant for the energy economy	Rosenberg	MFX
1013389	Leland Gee	In-House	Warm-up of the Droplet-on-Tape (DOT) System at MFX	Gee	MFX
1013391	Leland Gee	In-House	Warm-up of the Astrella Laser System at MFX (Run 25)	Gee	MFX
1013393	Leland Gee	In-House	Warm-up of the MFX Instrument (Run 25)	Gee	MFX
1013430	Alec Follmer	In-House	Commissioning an experimental geometry for THz-pump time-resolved SFX experiments at MFX	Baxter	MFX
1013434	Alexander Batyuk	In-House	ePixUHR 35kHz Detector - Characterization of production ASIC and calibration scheme development	Banta	MFX
1013445	Leland Gee	In-House	Enhancement of Tunable Self-Seeding Scans to Enable Ultrafast Dilute XAS and EXAFS Spectroscopy Experiment	Dehe	MFX
1013448	Philip Heimann	In-House	The Calibration of X-ray Power Meters for LCLS-II-HE	Banta	MFX
1013463	Daniel Rosenberg	In-House	Commissioning of the LCLS Fast Stage Fixed Target sample delivery system at MFX	Baxter	MFX
L-10358	Ayyer, Kartik	General User	Nanoscale imaging with oxidation-state sensitivity using spectral incoherent diffractive imaging	Gee	MFX
L-10449	Marks, Samuel	General User	Resolving sub-picosecond dynamic structure during coherent ion hopping in Na ⁺ superionic conductors	Yavas	MFX
1016216	Leland Gee	In-House	MFX training camp	Gee	MFX
1008543	Giacomo Coslovich	General User	Unveiling the pairing glue responsible for the high critical temperature in cuprates	Jost	qRIXS
1012141	Wei-Sheng Lee	General User	Light-driven Control of Electronic and Magnetic Properties in an infinite layer nickelate	Shen	qRIXS
1012203	Mark Dean	General User	Mid-infrared modification of oxygen hybridization in a cuprate superconductor	Turner	qRIXS
1012212	Alexander Reid	General User	Efficient excitation and dynamical response of nanoscale magnons in NiO	Shen	qRIXS
1012390	Yifeng Cao	General User	Revealing the temporal response of the elementary excitations of quantum emitters of hBN	Jost	qRIXS
1013482	Georgi Dakovski	In-House	Comprehensive commissioning of qRIXS	Dakovski	qRIXS
1016213	Matteo Mitrano	General User	Probing light-induced Luttinger plasmons in the one-dimensional cuprate Sr2CuO3	Shen	qRIXS
1008339	Till Jahnke	General User	Time-resolved imaging of dynamic chirality of a planar molecule	Obaid	TMO
1008646	Artem Rudenko	General User	Imaging structural dynamics in the molecular frame: correlation between proton transfer and torsional motion in UV-excited o-nitrophenol	Obaid	TMO
1012048	Marc SIMON	General User	(Time-)Resolving the clockwork of the core-hole clock with attosecond pulses	Driver	TMO
1012343	Sonia Marggi Poullain	General User	Mapping the roaming-mediated ultrafast isomerization of bromoform	Lin	TMO
1012358	Hans Jakob Wörner	General User	Double-Resonant Attosecond Spectroscopy of Core-Hole Induced Charge Migration in Nickelocene	Driver	TMO
1012471	Daniel Slaughter	General User	Tracking the few-fs molecular dynamics of atom exchange in the isomerization and dissociation of photoionized Methanol-d	Obaid	TMO
1012692	James Cryan	Campaign	Real-time Observation of Ultrafast Electron Motion using Attosecond XFEL Pulses: Run 25	Driver	TMO
1013474	James Cryan	In-House	TMO Timing Commissioning	Cryan	TMO
1013475	James Cryan	In-House	TMO MBES Checkout	Cryan	TMO
1013476	James Cryan	In-House	TMO MRCO Checkout	Cryan	TMO

Prop No	Spokesperson	Category	Title	POC	Inst
1013477	James Cryan	In-House	DREAM Commissioning	Cryan	TMO
1013478	James Cryan	Early Science	DREAM Early Science	Cryan	TMO
	DET Conny Hansson	In-House	Detector commissioning	#N/A	XCS
1011855	Alejandro Cadranel	DC&S	Ultrafast electron transfer in photoinduced mixed-valence systems	Raj	XCS
1012201	Roseanne J Sension	General User	Tr-XANES Measurements of Photoactive Cobalamins Employed in Optogenetics, Synthetic Chemistry, and Drug Delivery	Raj	XCS
1012302	Matthew Dent	DC&S	Assessing the role of distal pocket structure in imparting diatomic selectivity in the hemoprotein carbon monoxide sensor RcoM	Ribson	XCS
1012372	Xiaoqian Chen	General User	Detecting Light-induced Quantum Orbital Fluctuations in a Correlated Magnet	Song	XCS
1012378	Serena DeBeer	DC&S	Characterizing the reactive excited states of molecular iron(IV)-oxo complexes	Ribson	XCS
1012517	Samuel Teitelbaum	General User	Single-Shot Time-resolved X-Ray Diffraction with Tilted Pulse Fronts	Sato	XCS
1012602	Venkatraman Gopalan	Campaign	Fluctuations, Emergence and Dynamics of Complex Topological Supertextures by Design	Chollet	XCS
1012611	Chance Omelas-Skarin	General User	Two Pulse X-ray Optical Mixing: Measuring the Optical Response of Materials in the Time Domain	Sun	XCS
1012622	Mianzhen Mo	General User	Probing the non-equilibrium phonon dynamics in W-Re alloys with radiation effects	Sun	XCS
1012655	Josh Vura-Weis	General User	Anisotropic Electronic and Nuclear Dynamics in a Heterometallic Extended Metal Atom Chain	van Driel	XCS
1013410	matthieu chollet	In-House	XCS check out time	chollet	XCS
1013411	matthieu chollet	In-House	liquid jet standard configuration commissioning	van Driel	XCS
1013414	matthieu chollet	In-House	XCS split and delay commissioning	Song	XCS
1013436	Yanwen Sun	In-House	Commissioning of a hard x-ray attosecond split-delay line	Li	XCS
1013440	roberto alonso mori	In-House	Improvement and commissioning of the polycapillary XAS spectrometer to study ultra-dilute transition metals	Song	XCS
1014040	Josh Vura-Weis	General User	Anisotropic Electronic and Nuclear Dynamics in a Heterometallic Extended Metal Atom Chain	van Driel	XCS