

# LCLS Run 16 Schedule

Ver 2: 08/29/17

11/1/2017	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Day	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
Night																														

12/1/2017	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Night																															

1/1/2018	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed
Night																															

2/1/2018	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Day	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	
Night																													

3/1/2018	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Night																															

4/1/2018	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Day	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
Night																														

5/1/2018	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Day	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
Night																															

6/1/2018	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Day	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Night																														

AMO
SXR
XPP
XCS
MFX
CXI
MEC

Day	9 am - 9 pm
Night	9 pm - 9 am

<b><i>Proposal #</i></b>	<b><i>Instrument</i></b>	<b><i>Spokesperson</i></b>	<b><i>Title</i></b>
LQ91	MEC	Beg, Farhat	Study of proton stopping and energy deposition in warm dense matter
LQ98	CXI	Standfuss, Joerg	Structural dynamics of a light-driven ion pump
LR00	XCS	Perakis, Foivos	Ultrafast molecular diffusion of supercooled water probed by two-pulse x-ray photon correlation spectroscopy
LR01	SXR	Young, Linda	Transient spectroscopy in the water window: Dynamics and coherence in strong-field ionized water
LR04	XCS	Mara, Michael	Ultrafast X-ray Spectroscopy of Ferric Cytochrome c
LR07	SXR	Schmitt, Thorsten	Ultrafast dynamics of the short ranged antiferromagnetic fluctuations in CuGeO3 by laser pump - RIXS probe
LR09	SXR	Lee, Wei-Sheng	Studying orbitals, phonons, and electron-phonon coupling in photo-excited superconducting K3C60 via time-resolved RIXS
LR12	MEC	Gorman, Martin	Pressure-induced complexity in dynamically compressed calcium
LR13	XCS	Iwan, Bianca	Electronic charge transfer in dielectrics subjected to to strong asymmetric laser fields
LR15	SXR	Wall, Simon	Nanoscale imaging of dynamic phase separation with resonant soft X-ray holography.
LR17	MFX	Chapman, Henry	Atomic resolution incoherent diffractive imaging
LR21	MEC	Rosmej, Frank	Solving solar opacity problems
LR23	CXI	Van Thor, Jasper	Optical control of biological photoisomerisation using TR-SFX
LR25	AMO	Barillot, Thomas	Site specific ultrafast charge dynamics measured by Auger spectroscopy
LR28	CXI	Liu, Haiguang	Time resolved dynamics study of chloride ion pumping rhodopsin by SFX
LR29	SXR	Stamm, Christian	Real-time detection of transient spin currents and orbital momentum dynamics in fs laser-excited magnetic bilayers
LR30	CXI	Schmidt, Marius	The Z- to E-isomerization in Bacteriophytochromes
LR32	XCS	Nojiri, Hiroyuki	Structural and Spectroscopic Studies of the Transition Dynamics of Magnetic Field Induced Spin State Transition in [Mn(taa)] Complex by using Strong Pulsed Magnetic Fields
LR33	MEC	Ravasio, Alessandra	Structural study of silicates under high pressures relevant for planetary mantles
LR38	CXI	Weik, Martin	Visualization of excited state chromophores in rationally designed variants of a reversibly switchable fluorescent protein by femtosecond time-resolved SFX
LR40	SXR	Abbamonte, Peter	Higgs mode spectroscopy of intertwined orders in La <sub>2-x</sub> Ba <sub>x</sub> CuO <sub>4</sub>
LR42	AMO	Pollack, Lois	Visualizing the ion partners of nucleic acids
LR49	SXR	Sergii, Parchenko	Transient spin dynamics during the ultrafast spin-reorientation transition in orthoferrites
LR50	MFX	Conrad (Smith), Chelsie	Time-Resolved Studies of Purine Riboswitches
LR58	SXR	Mcgrane, Shawn	X-ray absorption spectroscopy (XAS) of chemical dynamics in shocked organic energetic materials
LR63	XCS	Foglia, Laura	Core-resonant Coherent Raman Scattering

<b>LR66</b>	XCS	Kim, Hyunjung	Dynamics of Polymeric Glasses in Atomic Scale
<b>LR67</b>	CXI	Qiao, Shenglan	Use of time resolved correlated x-ray scattering to measure conformational changes induced in the G alpha subunit of the heterotrimeric G-protein by the chaperone protein Ric-8A
<b>LR74</b>	CXI	Paulraj, Lourdu Xavier	Coherent Diffractive Imaging of 3D DNA-origami Molecular Scaffolds
<b>LR76</b>	CXI	Gruenbein, Marie	Shock wave damage in SFX experiments
<b>LR78</b>	XPP	Zhang, Jingdi	Local Structural Correlations in Photoswitchable Manganites
<b>LR81</b>	XCS	Yano, Junko	Time-Resolved X-ray Absorption Spectroscopy of Photosystem II at Room Temperature
<b>LR83</b>	CXI	Miniti, Michael	Ultrafast Structural Dynamics: Nuclear Motions Reveal Photochemistry in Action
<b>LR84</b>	CXI	Schlichting, Ilme	Radiation Damage to Electron-Rich Clusters in Biomolecules
<b>LR93</b>	AMO	Gorkhover, Taisia	DIRECT IMAGING OF TRANSIENT X-RAY SCATTERING CROSS SECTIONS DOWN TO THE ATTOSECOND TIMESCALE
<b>LS00</b>	CXI	Orville, Allen	Time-Resolved Serial Femtosecond Crystallography (tr-SFX) of Photosensory Proteins: Photoisomerization through Protein Conformational Switching Events
<b>LS04</b>	CXI	Lee, Hae Ja	Creation and measurement of keV solid-density plasma isochorically heated by nano-focused hard X-ray
<b>LS05</b>	AMO	Cryan, James	Demonstration of Impulsive Stimulated Electronic Raman Scattering
<b>LS08</b>	MFX	Fromme, Petra	The dynamics of light driven reactions in Photosynthesis studied by fixed target time resolved serial femtosecond crystallography and XES spectroscopy
<b>LS10</b>	MFX	Yachandra, Vittal	Taking Snapshots of O-O Bond Formation in Photosynthetic Water-Splitting Using Simultaneous X-ray Emission Spectroscopy and Crystallography
<b>LS11</b>	XPP	Trigo, Mariano	Diffuse x-ray scattering probe of anharmonicity in THz-driven SrTiO3 and improper ferroelectrics
<b>LS21</b>	MFX	Thompson, Michael	Exploring the Role of Enzyme Dynamics in the Evolution of Catalytic Function using Time-Resolved Temperature Jump Crystallography
<b>LS23</b>	CXI	Cherezov, Vadim	Femtosecond Crystallography of G protein-Coupled Receptors in Lipidic Cubic Phase
<b>LS24</b>	XPP	Wen, Haidan	Ultrafast coherent control of polar vortices by intense terahertz fields
<b>LS25</b>	XPP	Nelson, Keith	Measuring acoustic phonon lifetime in SiGe alloys across the Brillouin zone by probing optically induced squeezed phonons by x-ray thermal diffuse scattering
<b>LS26</b>	CXI	Seuring, Carolin	Imaging of aligned amyloids at high-repetition rate on low-background graphene
<b>LS29</b>	CXI	Liu, Wei	Structural studies of signaling through G proteins by femtosecond free-electron X-ray laser
<b>LS32</b>	MEC	Sandberg, Richard	Rapid 3D nanoscale characterization of materials with X-ray FEL ptychography
<b>LS33</b>	AMO	Cavalieri, Adrian	Attosecond interrogation of relaxation dynamics in highly excited atoms and molecules
<b>LS34</b>	MFX	Scheerer, Patrick	Structure and Mechanism of Oxygen-Tolerant and -Sensitive Hydrogenases: X-ray Spectroscopy and Crystallography under Physiological Conditions
<b>LS37</b>	XCS	Reis, David	Lattice dynamics using x-ray split and delay
<b>LS48</b>	SXR	Kunnus, Kristjan	Probing excited state surfaces governing the intra-molecular charge transfer processes in Fe-centered molecular photosensitizers with femtosecond resonant inelastic X-ray scattering

<b>LS49</b>	MFX	Sauter, Nicholas	Metalloprotein Oxidation States Spatially Resolved by Anomalous Dispersion Crystallography
<b>LS50</b>	MFX	Rousseau, Denis	Capturing Biology in Action: Reactive Catalytic Intermediates in Cytochrome c Oxidase
<b>LS53</b>	XPP	Ranganathan, Rama	The mechanics of permeation and selectivity in an ion channel
<b>LS58</b>	XCS	Fuller, Franklin	Time Resolved XFEL Stochastic Spectroscopy of Photo-Catalyzed Reactions
<b>LS60</b>	MEC	Marjoribanks, Robin	Continuum lowering and ionization shifts in matter heated by x-rays and intense laser fields
<b>LS61</b>	XPP	Cao, Yue	Ultrafast melting of charge density wave domains in 1T-TaS <sub>2</sub>
<b>LS64</b>	MEC	Gauthier, Maxence	In Situ X-ray Diffraction from Isochoric Proton-heated Warm Dense Silica
<b>LS65</b>	SXR	Turner, Joshua	Fluctuating stripes for high-temperature superconductivity?
<b>LS66</b>	MEC	Galtier, Eric	Detailed measurement of population kinetics and transition rates in NLTE plasmas