

### Scheduling LCLS Run V

Ver 6: CB 07/11/11

Nov 11	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
	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
Shift A	PPS checkouts & start-up																L477 Robinson			L421 Coffee										
Shift B																	Com Com Com Com Com			Gruebel (L304, run 4)										

Dec 11	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
	Thur	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
Shift A	IH Lemke		L396 Scherz			L396 Scherz		IH Bozek		L447 Harmand		SLAC holidays																			
Shift B	L498 Yachandra				L487 Sokolowski-Tinten		L409 Boeglin																								

Jan 12	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
	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	Tue
Shift A	SLAC holidays		PPS contingency													Start-up		Com Com Com L467 Mad			L467 Madsen										
Shift B	SLAC holidays																	L399/433 Fromme/Neutze			L399/433 Fromme Com Com										

Feb 12	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
	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
Shift A	L432/490 Fromme/Stevens					L430 Foerst			L391/398 Miao				L390 Staub			Com													
Shift B	Com Com Com Com Com					Com Com			L445 Hajdu		Com Com Com Com			IH Milathianaki															

Mar 12	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
	Thur	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
Shift A	L443 Gruebel					L407 Beye			L417 Cavalieri				Com Com Com IH			L489 Stephenson															
Shift B	L443		Com Com Com			L435 Gaffney			L419 Chen				L431 Frank			L403 Anfinrud		L403 Anfinrud													

Apr 12	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
	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
Shift A			L441 Graber			Com		L371 Trabert (Ebit)				Com L463 Leheny			L401 Abbey Com															
Shift B			Com Com Com Com Com			IH Krupin				Com Com		Com. Com. L497 Wark			L497 L463 Leheny															

May 12	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
	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
Shift A			IH		L496 Wall			CXI inhouse		L496 Wall		L406 Berrah			L434 Fuchs																
Shift B			Feng		L431 Frank			CXI in-house		L481/494		Com L481/494		L456 Krasniqi			L481/ L481/ Com. IH MEC														

- AMO
- XPP
- CXI
- unscheduled
- SXR
- XCS
- MEC
- X-X hard-x-ray -- hard-x-ray switch over

This schedule does not reflect a detailed shift distribution, in particular not day/night shifts

## LCLS Approved Experiments for Run 5, ~November 2011-May 2012

Beam Line/ Instrument	Proposal #	Proposal Lead Spokesperson/PI	Approved Commissioning and User Experiments	LCLS Beam Line Scientist (Point of Contact)
AMO	L387	TRABERT, ELMAR	Atomic lifetime measurement testing atomic structure theory and serving astrophysics	John Bozek/Christoph Bostedt
AMO	L406	BERRAH, NORA	Probing Coulomb confinement and nanoplasma generation in C60 ionized by LCLS pulses	John Bozek/Christoph Bostedt
AMO	L417	CAVALIERI, ADRIAN	One-to-One-Hundred Femtosecond X-ray Pulse Characterization	John Bozek/Christoph Bostedt
AMO	L421	COFFEE, RYAN	Time-resolved Auger relaxation via transient x-ray bleaching in O <sub>2</sub>	John Bozek/Christoph Bostedt
CXI	L391	MIAO, JIANWEI	3D Structure Studies of the Herpesvirus Capsid by Using a Hybrid Method Based on Coherent X-ray Diffraction Imaging and Cryo-Electron Microscopy/Merged with L398	Sébastien Boutet/Garth Williams
CXI	L398	MIAO, JIANWEI	Detection of Intracellular Amyloid Deposits by Micro-X-ray Diffraction from Biological Cells and Sub-Cellular Granules/Merged with L391	Sébastien Boutet/Garth Williams
CXI	L399	NEUTZE, RICHARD	Time-resolved Wide Angle X-ray Scattering and Nano-Crystallography Diffraction Studies of Ultrafast Membrane Protein Dynamics/Merged with L433	Sébastien Boutet/Garth Williams
CXI	L401	ABBEY, BRIAN	Characterisation of the Electronic and Structural Damage to Biomolecules Induced by X-ray Free-electron Lasers	Sébastien Boutet/Garth Williams
CXI	L431	FRANK, MATTHIAS	Improved high-resolution structure determinations of biological macromolecules by combined LCLS CXI and cryo-EM measurements	Sébastien Boutet/Garth Williams
CXI	L432	FROMME, PETRA	Femtosecond nanocrystallography of membrane proteins/Merged with L490	Sébastien Boutet/Garth Williams
CXI	L433	FROMME, PETRA	Molecular Movies of water oxidation in Photosystem II: the higher S- states/Merged with L399	Sébastien Boutet/Garth Williams
CXI	L434	FUCHS, MATTHIAS	Nonlinear X-ray	Sébastien Boutet/Garth Williams
CXI	L445	HAJDU, JANOS	Giant Viruses and the Structure of the Viral Genome	Sébastien Boutet/Garth Williams
CXI	L490	STEVENS, RAYMOND	Femtosecond nanocrystallography of G protein-coupled receptors in lipidic cubic phases/Merged with L432	Sébastien Boutet/Garth Williams
CXI	L498	YACHANDRA, VITTAL	Structure and Mechanism of the Photosynthetic Mn <sub>4</sub> Ca Water-Splitting Complex: Simultaneous Crystallography and Spectroscopy	Sébastien Boutet/Garth Williams
MEC	L481	SCHROPP, ANDREAS	High-resolution phase contrast imaging of shock waves in matter using compound refractive X-ray optics/Merged with L494	Hae Ja Lee/Bob Nagler

MEC	L494	VOGT, ULRICH	Investigation on the stability of tungsten zone plates irradiated with 8 keV FEL pulses/Merged with L481	Hae Ja Lee/Bob Nagler
MEC	L497	WARK, JUSTIN	LCLS - The Perfect Probe: Charge State Distributions in Warm Dense Matter	Hae Ja Lee/Bob Nagler
SXR	L396	SCHERZ, ANDREAS	Terahertz-Manipulation of Orbital Magnetism in Next Generation Magnetic Storage Media/Merged with L409	William F. Schlotter/Joshua J. Turner
SXR	L407	BEYE, MARTIN	Following a complete chemical reaction in real time	William F. Schlotter/Joshua J. Turner
SXR	L409	BOEGLIN, CHRISTINE	Femtosecond spin manipulation/Merged with 396	William F. Schlotter/Joshua J. Turner
SXR	L496	WALL, SIMON	Imaging dynamic phase-separation and nanocurrents in manganites by time resolved coherent x-ray scattering	William F. Schlotter/Joshua J. Turner
XCS	L443	GRUEBEL, GERHARD	Split-Pulse XPCS Experiments	Aymeric Robert/Chiara Caronna
XCS	L463	LEHENY, ROBERT	Dynamics in gels and clay suspensions investigated by time-correlation spectroscopy of speckle patterns	Aymeric Robert/Chiara Caronna
XCS	L467	MADSEN, ANDERS	Atomic-scale dynamics and local structure of a metallic glass former	Aymeric Robert/Chiara Caronna
XCS	L489	STEPHENSON, GREGORY	X-ray Correlation Spectroscopy of Atomic-Scale Dynamics in Liquids and Glasses	Aymeric Robert/Chiara Caronna
XPP	L390	STAUB, URS	Time scales of charge and orbital order in relation to the Jahn-Teller distortion and structural modifications in manganites	David Fritz/Marco Cammarata
XPP	L403	ANFINRUD, PHILIP	Towards ultrafast time-resolved diffraction studies of proteins - the myoglobin showcase	David Fritz/Marco Cammarata
XPP	L419	CHEN, LIN	Transition State Structural Dynamics in Photochemical Processes	David Fritz/Marco Cammarata
XPP	L430	FOERST, MICHAEL	Nonlinear Phonon Control in Quantum Solids: A Femtosecond Crystallographic Determination	David Fritz/Marco Cammarata
XPP	L435	GAFFNEY, KELLY	Coherent structural dynamics of aqueous complex using time-resolved diffuse x-ray scattering	David Fritz/Marco Cammarata
XPP	L441	GRABER, TIMOTHY	Ultrafast photoisomerization in biological photoreceptors	David Fritz/Marco Cammarata
XPP	L447	HARMAND, MARION	A reliable, easy-to-use timing tool for pump-probe experiments at FEL facilities	David Fritz/Marco Cammarata
XPP	L456	KRASNIQI, FATON	Ultrafast Dynamics in Laser-Excited Magnetic Semiconductors	David Fritz/Marco Cammarata
XPP	L477	ROBINSON, IAN	Pump-probe investigation of femtosecond laser-irradiation of gold nanocrystals	David Fritz/Marco Cammarata
XPP	L487	SOKOLOWSKI-TINTEN, KLAUS	Transient structure of laser-generated disordered states investigated by ultrafast diffuse X-ray scattering	David Fritz/Marco Cammarata