

# Scheduling LCLS Run 7

Ver 5: 01/09/12

| Jan 13 | 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 |  |
| Day    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | IH              | IH  | L746 Nilsson |     |     |     |     |     | L648 Doniach | IH  | IH  |     |     |     |     |  |
| Night  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Photon Start-Up |     |              |     |     |     |     |     | Comm         |     |     |     |     |     |     |  |

| Feb 13 | 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   |      |
|--------|---------------|-----|-----|-----|-----|-----|-------------|-----|-----|--------|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|------|------|
|        | 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  |      |
| Day    | L684 Doumy    |     |     |     |     |     | Photon MD   |     |     | Ph. MD |     |     |     | L702 Gray   |     |     |     |     |     |     |     |     | L723 Lee   |     |     |     |     |      | L733 |
| Night  | L662 Bressler | IH  |     |     |     | IH  | L767 Seeman |     |     |        |     |     |     | L675 Coffee |     |     |     |     |     |     |     |     | L772 Staub |     |     |     |     | L785 |      |

| Mar 13 | 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  |
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|        | 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 |
| Day    | L733 McMahon   |     |     |     |     |     | IH-Sci Lemke2 |     |     |     |     |     |     | IH-Sci Messerschmidt |     |     |     |     |     |     |               | L766 Schuessler-L |     |     |     |     |              | L666 Cammarata |     |     |     |
| Night  | L785 Yachandra |     |     |     |     |     | IH-Sci Coffe  |     |     | IH  | IH  |     |     | L728 Mack            | Det |     |     |     |     |     | L672 Cherezov |                   |     |     |     |     | L649 Rudenko |                |     |     |     |

| Apr 13 | 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  |
|--------|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|
|        | 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 |
| Day    |     |     |     | L780 Wark   |     |     |     |     |     |     | L659 Bogan    |     |     |     |     |     |     | L722 Lee   |     |     |     |     |     |     | L700 Glenzer |     |     |     |     |     |
| Night  |     |     |     | L677 Collet |     |     |     |     |     |     | IH-Sci Nagler |     |     |     |     |     |     | IH-Com GMD |     |     |     |     |     |     | L637 David   |     |     |     |     |     |

| May 13 | 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  |
|--------|-----|------------|-----|-----|-----|-----|-----|-----|----------------|-----------|-----|-----|-----|-----|-----------|--------------|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|------|-----|-----|
|        | 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 | Fri |
| Day    |     | L691 Frank |     |     |     |     |     |     |                | L710 Hill |     |     |     |     |           | L755 Ravasio |     |     |     |     |     |     |     | IH-Com Bozek   |     |     |     |     | L660 |     |     |
| Night  |     | IH Det     | Dia |     |     |     |     |     | IH-Dev Moeller |           |     |     |     | Det | L730 Maia |              |     |     |     |     |     |     |     | L731 Mankowsky |     |     |     |     | L729 |     |     |

| Jun 13 | 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  |
|--------|-------------|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|---------------|------|-----|-----|-----|-----|-----|-----|-------------|---------|-----|-----|---------------|-----|-----|-----|------|-----|
|        | 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 |
| Day    | L660        | IH  |     |     |     | L748 Orville |     |     |     |     |     |     | L711 Hogue    | Feng |     |     |     |     |     |     | L742 Murphy |         |     |     | IH-Sci Turner |     | IH  | IH  | IH   |     |
| Night  | L729 Madsen |     |     |     |     | L657 Beye    |     |     |     |     |     |     | L708 Hastings |      |     |     |     |     |     |     | L650 Soltis | IH Feng |     |     | L669 Chapman  |     |     |     | Feng |     |

| Jul 13 | 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  |
|--------|------|-----|-----|---------------|-----|-----|----------------|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|        | 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 |
| Day    | IH   |     |     | L639          |     |     | IH-Sci Minitti |     |     |     |     |     |     |     | L695 Gaffney     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Night  | Feng |     |     | L751 Petrovic |     |     |                |     |     |     |     |     |     |     | L764 Schlichting |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

AMO

SXR

XPP

XCS

CXI

MEC

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

| <u>Instr.</u> | <u>Prop #</u> | <u>Title</u>   | <u>Spokes Person</u>     |
|---------------|---------------|--|--------------------------|
| XCS           | L637          | A grating-based delay line for x-ray pump x-ray probe experiments in the femtosecond range   | DAVID, CHRISTIAN         |
| XPP           | L639          | Coherent optical phonons in laser-excited Bi – once and for all!   | SOKOLOWSKI-TINTEN, KLAUS |
| CXI           | L648          | Structure of ferrihydrite nanoparticles probed by correlated x-ray scattering  | DONIACH, SEBASTIAN       |
| AMO           | L649          | From a bound molecule to an isolated atom: internuclear-distance resolved Auger spectroscopy   | RUDENKO, ARTEM           |
| XPP           | L650          | Structure Determination of Metalloproteins using Femtosecond Crystallography   | SOLTIS, S MICHAEL        |
| SXR           | L657          | Following a complete chemical reaction in real time  | BEYE, MARTIN             |
| CXI           | L659          | Climate Change Aerosol Dynamics I: Single Particle Studies of Homogeneous/Heterogeneous Nucleation with the CXI Nanofocus            | BOGAN, MICHAEL           |
| CXI           | L660          | Exploration of the usefulness of seeded beam for serial femtosecond crystallography  | BOUTET, SEBASTIEN        |
| XPP           | L662          | Solvation Dynamics: The very first steps   | BRESSLER, CHRISTIAN      |
| XPP           | L666          | Ultrafast protein dynamics in solution   | CAMMARATA, MARCO         |
| CXI           | L669          | De novo phasing of diffraction of native proteins  | CHAPMAN, HENRY           |
| CXI           | L672          | Femtosecond nanocrystallography of G protein-coupled receptors in lipidic cubic phase  | CHEREZOV, VADIM          |
| AMO           | L675          | Spectrogram x-ray/optical cross-correlation: deconvolving carrier dynamics for pulse shape retrieval                                 | COFFEE, RYAN             |
| XPP           | L677          | Photoinduced phase transition molecular crystals : ultrafast, coherent and cooperative response                                      | Collet, Eric             |
| AMO           | L684          | Measuring Auger lifetime chemical sensitivity in the time domain   | DOUMY, GILLES            |
| CXI           | L691          | Advanced Imaging of 2-D Protein Crystals   | FRANK, MATTHIAS          |
| SXR           | L695          | Studying Charge Transfer Excited states in Coordination Chemistry with Atom Specific Core Hole Spectroscopy                          | GAFFNEY, KELLY           |
| MEC           | L700          | First-principles compression measurements of Shocks using inelastic x-ray scattering at the Matter of Extreme Conditions end station | GLENZER, SIEGFRIED       |
| XPP           | L702          | Electric-field-driven pure electronic-structure switching for next-generation ultrafast devices                                      | Gray, Alexander          |
| MEC           | L708          | Low frequency structural dynamics of warm dense matter   | HASTINGS, JEROME         |
| XPP           | L710          | Ultrafast Control of the Magnetic Hamiltonian in 5d Iridates   | HILL, JOHN               |
| CXI           | L711          | Molecular Structures from Correlated Fluctuations in Fast Solution Scattering  | HOGUE, BRENDA            |

| <u>Instr.</u> | <u>Prop #</u> | <u>Title</u>   | <u>Spokes Person</u>    |
|---------------|---------------|--|-------------------------|
| XPP           | L722          | Interplay between Antiferromagnetic and Structural Phase Transitions in Photo-excited Iron Pnictide BaFe <sub>2</sub> As <sub>2</sub>  | LEE, WEI-SHENG          |
| SXR           | L723          | Lattice-Driven Stripe Dynamics via Mode-selective Mid-IR Pump and Resonant X-ray Diffraction Probe   | LEE, WEI-SHENG          |
| SXR           | L728          | 'Orbital' electronics in 2D materials  | Mack, Stephanie         |
| XCS           | L729          | Using a seeded FEL beam to access atomic-scale dynamics and the local structure of glasses   | Madsen, Anders          |
| CXI           | L730          | COHERENT DIFFRACTIVE IMAGING OF SINGLE RNA POLYMERASE II MOLECULES AND COMPLEXES AT THE LCLS   | MAIA, FILIPE            |
| XPP           | L731          | Nonlinear lattice dynamics during light induced superconductivity  | Mankowsky, Roman        |
| MEC           | L733          | Ultrafast Diffraction Studies of Phase Transformation Kinetics in Dynamically-Compressed Bismuth   | McMahon, Malcolm        |
| AMO           | L742          | Time-Resolved Dissociation Dynamics of Endohedral Ho <sub>3</sub> N@C <sub>80</sub> Fullerenes Following Ho(3d) Photoionization Using a Novel X-Ray Split and Delay Instrument | Murphy, Brendan         |
| CXI           | L746          | Concurrent Study of Water's Structure and Ice Nucleation in "No Man's Land"  | NILSSON, ANDERS         |
| XPP           | L748          | An acoustic droplet injector for serial femtosecond crystallography experiments  | ORVILLE, ALLEN          |
| AMO           | L751          | Initiating New Chemistry with Short X-ray Pulses: Multi-configuration Wavepackets  | Petrovic, Vladimir      |
| MEC           | L755          | Investigation of phase transitions of iron and iron alloys under extreme dynamic compression with XANES measurements   | Ravasio, Alessandra     |
| CXI           | L764          | Radiation damage in serial femtosecond macromolecular crystallography  | SCHLICHTING, ILME       |
| SXR           | L766          | Impact of the structural dynamics on the ultrafast demagnetization of the antiferromagnetic semiconductor EuTe   | SCHUESSLER-L, CHRISTIAN |
| CXI           | L767          | Femtosecond nanocrystallography of designed DNA lattices   | Seeman, Nadrian         |
| XPP           | L772          | Resolving the Jahn-Teller and charge localization dynamics of charge- and orbital-order melting in a manganite   | STAUB, URS              |
| SXR           | L780          | Continuum Lowering in X-FEL Driven Solid Density Plasmas   | WARK, JUSTIN            |
| CXI           | L785          | Program Proposal: Taking Snapshots of O-O Bond Formation in Photosynthetic Water-Splitting Using Simultaneous X-ray Emission Spectroscopy and Crystallography                  | YACHANDRA, VITTAL       |