

Scheduling LCLS Run V

Ver 9c: CB 5/3/12

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| 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 | | | | |
| 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 | | | | |
| Night | PPS checkouts & start-up | | | | | | | | | | | | | | | | Com | Com | Com | Com | Com | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|----------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|----------|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 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 | |
| Day | 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 | |
| Night | L498 Yachandra | | | | | | | L487 Sokoloswski-Tinten | | | IH Bozek | | L447 Harmand | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 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 | |
| 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 | Tue | |
| Night | SLAC holidays | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 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 | | |
| 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 | | |
| Night | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 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 | |
| Day | 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 | |
| Night | XCS com12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 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 | |
| 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 | XCS com12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

to 6a 6p-12a

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 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 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|---|---|---|--|
|  AMO |  XPP |  CXI |  Dev |
|  SXR |  XCS |  MEC | |

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

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

| Proposal | Beam Line/ Instrument | Proposal Lead Spokesperson/PI | Approved Commissioning and User Experiments |
|----------|--------------------------|----------------------------------|---|
| L304 | XCS | GRUEBEL, GERHARD | X-Ray Split-Pulse Experiments (II) |
| L387 | AMO | TRABERT, ELMAR | Atomic lifetime measurement testing atomic structure theory and serving astrophysics |
| L390 | XPP | STAUB, URS | Time scales of charge and orbital order in relation to the Jahn-Teller distortion and structural modifications in manganites |
| L391 | CXI | 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 |
| L396 | SXR | SCHERZ, ANDREAS | Terahertz-Manipulation of Orbital Magnetism in Next Generation Magnetic Storage Media/Merged with L409 |
| L398 | CXI | MIAO, JIANWEI | Detection of Intracellular Amyloid Deposits by Micro-X-ray Diffraction from Biological Cells and Sub-Cellular Granules/Merged with L391 |
| L399 | CXI | NEUTZE, RICHARD | Time-resolved Wide Angle X-ray Scattering and Nano-Crystallography Diffraction Studies of Ultrafast Membrane Protein Dynamics/Merged with L433 |
| L401 | CXI | ABBEY, BRIAN | Characterisation of the Electronic and Structural Damage to Biomolecules Induced by X-ray Free-electron Lasers |
| L406 | AMO | BERRAH, NORA | Probing Coulomb confinement and nanoplasma generation in C60 ionized by LCLS pulses |
| L407 | SXR | BEYE, MARTIN | Following a complete chemical reaction in real time |
| L409 | SXR | BOEGLIN, CHRISTINE | Femtosecond spin manipulation/Merged with 396 |
| L417 | AMO | CAVALIERI, ADRIAN | One-to-One-Hundred Femtosecond X-ray Pulse Characterization |
| L419 | XPP | CHEN, LIN | Transition State Structural Dynamics in Photochemical Processes |
| L421 | AMO | COFFEE, RYAN | Time-resolved Auger relaxation via transient x-ray bleaching in O ₂ |
| L430 | XPP | FOERST, MICHAEL | Nonlinear Phonon Control in Quantum Solids: A Femtosecond Crystallographic Determination |
| L431 | CXI | FRANK, MATTHIAS | Improved high-resolution structure determinations of biological macromolecules by combined LCLS CXI and cryo-EM measurements |

| | | | |
|------|-----|--------------------------|--|
| L432 | CXI | FROMME, PETRA | Femtosecond nanocrystallography of membrane proteins/Merged with L490 |
| L433 | CXI | FROMME, PETRA | Molecular Movies of water oxidation in Photosystem II: the higher S-states/Merged with L399 |
| L434 | CXI | FUCHS, MATTHIAS | Nonlinear X-ray |
| L435 | XPP | GAFFNEY, KELLY | Coherent structural dynamics of aqueous complex using time-resolved diffuse x-ray scattering |
| L439 | AMO | Glownia, Mike | Ultrafast Imaging and Control of Non-Radiative Molecular Dynamics at the LCLS |
| L441 | XPP | GRABER, TIMOTHY | Ultrafast photoisomerization in biological photoreceptors |
| L445 | CXI | HAJDU, JANOS | Giant Viruses and the Structure of the Viral Genome |
| L447 | XPP | HARMAND, MARION | A reliable, easy-to-use timing tool for pump-probe experiments at FEL facilities |
| L456 | XPP | KRASNIQI, FATON | Ultrafast Dynamics in Laser-Excited Magnetic Semiconductors |
| L467 | XCS | MADSEN, ANDERS | Atomic-scale dynamics and local structure of a metallic glass former |
| L477 | XPP | ROBINSON, IAN | Pump-probe investigation of femtosecond laser-irradiation of gold nanocrystals |
| L481 | MEC | SCHROPP, ANDREAS | High-resolution phase contrast imaging of shock waves in matter using compound refractive X-ray optics/Merged with L494 |
| L487 | XPP | SOKOLOWSKI-TINTEN, KLAUS | Transient structure of laser-generated disordered states investigated by ultrafast diffuse X-ray scattering |
| L490 | CXI | STEVENS, RAYMOND | Femtosecond nanocrystallography of G protein-coupled receptors in lipidic cubic phases/Merged with L432 |
| L494 | MEC | VOGT, ULRICH | Investigation on the stability of tungsten zone plates irradiated with 8 keV FEL pulses/Merged with L481 |
| L497 | MEC | WARK, JUSTIN | LCLS - The Perfect Probe: Charge State Distributions in Warm Dense Matter |
| L498 | CXI | YACHANDRA, VITTAL | Structure and Mechanism of the Photosynthetic Mn4Ca Water-Splitting Complex: Simultaneous Crystallography and Spectroscopy |