LCLS-II-HE "First Experiments" Meeting
Mon. Oct. 30
SLAC Redwood Building 48
Plenary (combined AMO & Gas-phase Chemistry, Biology, Quantum Materials)

8:00 AM  
breakfast

8:30 AM  
Welcome  
Mike Dunne - SLAC

8:40 AM  
LCLS-II-HE Science Opportunities Overview  
Robert Schoenlein - SLAC

9:05 AM  
discussion

9:20 AM  
LCLS-II-HE Facility Overview  
Tor Raubenheimer - SLAC

9:40 AM  
discussion

9:50 AM  
LCLS-II-HE Instrumentation  
David Fritz - SLAC

10:10 AM  
break

10:20 AM  
Workshop charge and objectives  
Robert Schoenlein - SLAC

10:30 AM  
break

Mon. Oct. 30
1:20 PM  
Three Parallel Meetings:

10:50 AM  
**AMO & Gas-phase Chemistry:** B53-4002 Toluca  
breakout sub-topic introductions, organization, open discussion  
P. Bucksbaum, J. Cryan

10:50 AM  
**Biology:** B48-112C/D  
breakout sub-topic introductions, organization, open discussion  
E. Lattman, S. Wakatsuki, S. Boutet & sub-topic leads

10:50 AM  
**Quantum Materials:** B48-112A/B  
breakout sub-topic introductions, organization, open discussion  
W.S. Lee, R. Schoenlein & sub-topic leads

12:20 PM  
lunch

Parallel Sub-topic Meetings:

**AMO & Gas-phase Chemistry:**
- Group1: *Fundamental atomic & molecular dynamics* B53-4002 Toluca
- Group2: *Strong-field physics & nonlinear X-rays* B53-4006 Tulare
- Group 3: *Chemical dynamics (imaging/scattering)* B53-4050 Yosemite

**Biology:**
- Group 1: *Spontaneous (stochastic) dynamics and conformational heterogeneity* B48-112D
- Group 2: *Triggered dynamics - pump/probe, rapid mixing* B48-224 Madrone
- Group 3: *Advanced algorithms to provide new insight to biological function* B41 Napa

**Quantum Materials:**
- Group 1: *Correlated materials* B48-112A
- Group 2: *Low-dimensional materials and heterostructures* B48-112B
- Group 3: *Exotic magnetism and spin phenomena* B48-112C

1:20 PM  
contributed talks and discussion (and sub-topic breakouts)  
discussion

2:10 PM  
break

2:25 PM  
contributed talks and discussion (and sub-topic breakouts)  
break

3:15 PM  
break

3:30 PM  
contributed talks and discussion (and sub-topic breakouts)  
break

5:30 PM  
break

6:00 PM  
dinner @ SLACafé (Building 53)

7:00 PM  
preparation of draft "first experiments" for presentation & discussion on Tues.

9:00 PM  
adjourn for the day

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**AMO:** 53-4002, 4006, 4050
**Biology:** 53-3002, 3004, 3036
**QM:** 53-1350A, 53-1350B, 53-1036
LCLS-II-HE "First Experiments" Meeting
Tues. Oct. 31
AMO & Gas-phase Chemistry: B53-4002 Toluca
Biology: Rm. B48-112C/D
Quantum Materials: B48-112A/B

8:30 AM  breakfast
9:00 AM  Preliminary report-out presentations on "first experiments"
- AMO & Gas-phase Chemistry (all sub-groups): B53-4002 Toluca
- Biology (all sub-groups): Rm. B48-112C/D
- Quantum Materials (all sub-groups): B48-112A/B

9:30 AM  discussion
9:45 AM  Preliminary report-out presentations on "first experiments"
- AMO & Gas-phase Chemistry (all sub-groups): B53-4002 Toluca
- Biology (all sub-groups): Rm. B48-112C/D
- Quantum Materials (all sub-groups): B48-112A/B

10:15 AM  discussion
10:30 AM  break
10:45 AM  Writing - LCLS-II-HE "first experiments"

AMO & Gas-phase Chemistry:
- Group1: Fundamental atomic & molecular dynamics  B53-4002 Toluca
- Group2: Strong-field physics & nonlinear X-rays  B53-4006 Tulare
- Group 3: Chemical dynamics (imaging/scattering)  B53-4050 Yosemite

Biology:
- Group 1: Spontaneous (stochastic) dynamics and conformational heterogeneity  B48-112D
- Group 2: Triggered dynamics - pump/probe, rapid mixing  B48-101 Cedar
- Group 3: Advanced algorithms to provide new insight to biological function  B41 Napa

Quantum Materials:
- Group 1: Correlated materials:  B48-112A
- Group 2: Low-dimensional materials and heterostructures  B48-112B
- Group 3: Exotic magnetism and spin phenomena  B48-112C

1:00 PM  working lunch
2:00 PM  adjourn