

Second Ringberg Meeting on Science with FELs
February 27th - March 2nd, 2011

| Sunday, February 27, 2011 | | |
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| > 15:00 | <i>Coffee, cake, Garden room</i> | |
| Chair: R. Falcone | | |
| 16.45 | Schlichting/Ullrich | Welcome |
| 17:00 | J. Welch | Future Performance of the LCLS |
| 17:30 | T. Tschentscher | Status of the European XFEL project |
| 18:00 | N. Rohringer | A photoionization atomic x-ray laser in the gain-saturated regime realized at the LCLS |
| 18:30 | <i>Dinner</i> | |
| Chair: U. Bergmann | | |
| 20.00 | D. Miller | Peak Power Limitations to Femtosecond Atomically Resolved Dynamics: Self Assembly of Megapixel sample arrays for Single Shot-High Throughput Sampling |
| Monday, February 28, 2011 | | |
| Chair: L. Young | | |
| 9:00 | J. Bozek | The AMO Instrument at LCLS - Recent Results and Future Plans |
| 9:30 | K. Ueda | Atoms, molecules and clusters irradiated by FEL pulses |
| 10:00 | R. Moshhammer | FEL induced molecular reactions: time-resolved and in 3D |
| 10:30 | <i>Coffee break</i> | |
| Chair: N. Berrah | | |
| 11:00 | S. Epp | Photoelectron Holography in the Gas Phase |
| 11:30 | M. Först | Vibrationally induced melting of electronic and magnetic order in a manganite probed via ultrafast soft x-ray diffraction at LCLS |
| 12:00 | W. Wurth | Electron induced dynamics in solids and at surfaces |
| 12:30 | <i>Lunch</i> | |
| Chair: E. Weckert | | |
| 14:00 | J.-M. Rost | Photo activation of Coulomb complexes |
| 14:30 | C. Bostedt | Imaging ultrafast processes in clusters |
| 15:00 | Th. Fennel | Probing cluster dynamics in intense XUV and X-ray pulses |
| 15:30 | <i>Coffee break</i> | |

| Chair: K. Hodgson | | |
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| 16:00 | M. Frank | Nano-particle injectors for coherent x-ray diffraction imaging |
| 16:30 | A. Barty | Femtosecond X-ray imaging |
| 17:00 | P. Fromme | Femtosecond Nanocrystallography of Membrane Proteins: Results, Challenges and Future Directions |
| 17:30 | A. Ourmazd | Structure and Dynamics from Random Snapshots |
| 18.00 | | Tour of the Castle |
| 18:45 | <i>Dinner</i> | |
| Chair: H. Dosch | | |
| 20:00 | M. Cammarata | Firsts hard x-ray experiments at FELs: the experience of XPP |
| 20:30 | K. Sokolowski-Tinten | Structural dynamics in laser-excited materials studied with time-resolved X-ray scattering. |
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| Tuesday March 1, 2011 | | |
| Chair K. Jungmann | | |
| 9:00 | K. Kienberger | Towards the measurement of sub-fs X-ray pulses at LCLS |
| 9:30 | M. Meyer | Atomic photoionization and Auger decay in intense radiation fields |
| 10:00 | H. Pedersen | Towards kinematically complete photoelectron and photofragment imaging of cooled molecular ions at FELs |
| 10:30 | <i>Coffee break</i> | |
| Chair: B. Patterson | | |
| 11:00 | I. Vartaniants | Revealing symmetry and structure in a single shot FEL experiments |
| 11:30 | G. Grübel | Cross Correlation Analysis and Correlation Spectroscopy |
| 12.00 | B. Schlotter | Single Shot Correction for Timing Jitter with Soft X-rays |
| 12:30 | <i>Lunch</i> | |
| 14:00 | <i>Discussion rounds / Hiking</i> | |
| 18:30 | <i>Conference Dinner</i> | |
| 20.30 | | Discussion rounds |
| Wednesday, March 2, 2011 | | |
| Chair: J. Schneider | | |
| 9:00 | P. Bucksbaum | Ultrafast x-ray experiments in simple molecules: early results and new opportunities |
| 9:30 | R. Santra | Resonances in high-intensity x-ray ionization |
| 10.00 | F. Kaertner | Timing and Synchronization Systems for X-FELs: From Femtoseconds to Attoseconds |
| 10:30 | Ullrich/Schlichting | Concluding Remarks |
| Departure, lunch packages if desired | | |

11:00 – 16:30 [ASG Meeting](#), Gruener Salon