

Ringberg Meeting on Science with FELs

International Workshop on Science with FELs – from first results to future perspectives

Sunday, March 14, 2010

> 15:00 | *Coffee, cake, Garden room*

Chair: J. Ullrich

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| 16:45 | Schlichting/Ullrich | Welcome |
| 17:00 | J. Frisch | Lessons learned from first operation of LCLS for users |
| 17:30 | N. Berrah | First Results on Ultrafast and Ultraintense X-Ray Studies of Molecular Photoabsorption using the LCLS Free Electron Laser |
| 18:00 | J. Crespo López-Urrutia | Reenacting photoionization in astrophysical X-ray engines at LCLS |
| 18:30 | | <i>Dinner</i> |

Monday, March 15, 2010

Chair: H. Dosch

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| 9:00 | L. Young | Intensity-induced x-ray transparency: x-ray interactions at 10^{18} W/cm ² |
| 9:30 | K. Ueda | Multiple ionization of atoms, molecules and clusters irradiated by EUVFEL |
| 10:00 | R. Coffee | Multiple core-hole production in second-row molecules |
| 10:30 | | <i>Coffee break</i> |
| | | Chair: : M. Atarelli |
| 11:00 | U. Saalman | Formation of novel nanoplasmas |
| 11:30 | D. Rolles | Competition between Radiative and Auger Decay after X-FEL Ionization of Atoms and Molecules |
| 12:00 | M. Vrakking | Pump-probe spectroscopy using XUV and x-ray free electron lasers |
| 12:30 | | <i>Lunch</i> |
| | | Chair: J. Hastings |
| 14:00 | A. Rudenko | X-ray pump, X-ray probe experiments: experience from FLASH and SCSS, perspectives for LCLS |
| 14:30 | A. Dorn | Few-Photon Few-Electron Reactions in Lithium |
| 15:00 | M. Drescher | Molecular dynamics studies with timing-optimized FEL pulses |
| 15:30 | | <i>Coffee break</i> |
| | | Chair: K. Hodgson |
| 16:00 | D. Miller | Atomically Resolved Dynamics: Material Limits to Source Brightness (X-rays vs Electrons) and some Solutions |
| 16:30 | F. Krasniqi | Photoelectron Holographic Imaging of Molecules with Free Electron Lasers |
| 17:00 | S. Techert | From local to global movements: chemical reactions and molecular switches studies with ultrafast pulsed x-rays |
| 17:30 | P. Wochner | Finding order in disorder by X-ray speckle cross-correlation |

18.00 Tour of the Castle
 18:30 *Dinner*
 Chair: J.-M. Rost
 20:00 A. Cavalleri Probing Strongly Correlated Electron Dynamics with Ultrafast X-rays

Tuesday March 16, 2010

Chair U. Bergmann

9:00 S. Hau-Riege XFEL interaction with solids and gases for photon energies between 0.83 and 8.3 keV
 9:30 T. Ditmire High Intensity XUV and XFEL Pulse Interactions With Atomic Clusters
 10:00 T. Moeller Imaging ultrafast processes in clusters
 10:30 *Coffee break*
 Chair: I. Schlichting
 11:00 J. Spence LCLS -Fast Injectors and data analysis methods
 11:30 H. Chapman Coherent Nanocrystallography and Imaging at LCLS
 12:00 T. Martinez Unresolved Questions in Conical Intersections and Excited State Dynamics
 12:30 *Lunch*
 14:00 Discussion rounds / Hiking
 CAMP-collaborators meeting: Gruener Salon
 18:30 *Conference Dinner*
 20.30 Discussion rounds pnCCD Detector-user meeting, etc

Wednesday, March 17, 2010

Chair: J. Schneider

9:00 T. Tschentscher Generation and investigation of few eV near-solid density matter
 9:30 D. Reis Time and momentum-resolved imaging of nonequilibrium phonons
 10.00 J. Stoehr Ultrafast Magnetic Phenomena
 10:30 T. Shintake Status of X-FEL/SPring-8 construction and expected performance
 11:00 Ullrich/Schlichting Concluding remarks
 Departure, lunch packages if desired

11.30- 15.00 ASG Meeting, Gruener Salon