

WORKSHOP ON XFEL RADIATION & ITS APPLICATIONS

June 18-19, 2010

Main Amphitheater,

NCSR "Demokritos", Aghia Paraskevi, Athens, Greece

Organized by the National Center for Scientific Research "Demokritos", the National Hellenic Research Foundation and the Agricultural University of Athens, in the framework of the BE/OPT-XFEL network (www.xfel.gr) funded by the General Secretariat for Research & Technology.

PROGRAM**Friday 18-6-2010**

| | | |
|-------------------------|---|--|
| 9:00 - 9:30 | Registration | |
| 9:30 - 10:00 | <i>Opening address, General Information about the BE/OPT-XFEL</i> | Michael Kokkinidis IMBB & Univ. of Crete , Heraklion, Crete, Greece |
| 1 st session | <i>Introduction: Science</i> | |
| 10:00 - 10:40 | <i>The European X-ray Free-Electron Laser in Hamburg</i> | Massimo Altarelli European XFEL, GmbH, Germany |
| 10:40 - 11:20 | <i>The Linac Coherent Light Source at SLAC: Facility and early science</i> | Johen Schneider DESY/Hamburg & CFEL, Germany |
| 11:20 - 11:40: | Coffee Break | |
| 2 nd session | <i>Instrumentation</i> | |
| 11:40 - 12:20 | <i>European XFEL scientific applications and the related instrumentation</i> | Thomas Tschentscher European XFEL, GmbH, Germany |
| 12:20 - 13:00 | <i>Undulator systems for the European X- Ray Free Electron Laser</i> | Joachim Pflüger DESY/HASYLAB-Hamburg, Germany |
| 13:00 - 14:30: | Light Lunch | |
| 3 rd session | <i>Time resolved /high field applications</i> | |
| 14:40 - 15:20 | <i>Optical and X-ray studies of the ultrafast molecular dynamics in solutions</i> | Majed Chergui École Polytechnique Fédérale, Lausanne, Switzerland |
| 15:20 - 16:00 | <i>Time resolved photoemission of highly correlated materials</i> | Luca Perfetti Ecole Polytechnique Palaiseau, Paris, France |
| 16:00 - 16:20: | Coffee Break | |
| 4 th session | <i>More on time resolved</i> | |
| 16:20 - 17:00 | <i>Clusters exposed to intense optical and vacuum-ultraviolet laser pulses</i> | Josef Tiggesbäumker Universität Rostock, Rostock, Germany |
| 17:00 - 17:40 | <i>Non-linear processes in simple atoms and molecules interacting with vuv and xuv short laser pulses</i> | H. Bachau Université Bordeaux, France |

Saturday 19-6-2010

| | | |
|------------------------------------|---|--|
| 1 st session | <i>Application in Biological samples</i> | |
| 10:00 - 10:40 | <i>Diffraction Imaging of Biological Specimens with Intense, Coherent X-rays</i> | Changyong Song RIKEN SPring-8 Center, Harima Institute, Sayo, Japan |
| 10:40 - 11:20 | <i>Biological Applications at the European XFEL</i> | Edgar Weckert DESY-Hamburg, Germany |
| 11:20 - 11:40: Coffee Break | | |
| 2 nd session | <i>Material Sciences</i> | |
| 11:40 - 12:20 | <i>Probing Magnetism by X-Ray Scattering and Holography</i> | Stefan Eisebitt Technische Universität Berlin, Berlin, Germany |
| 12:20 - 13:00 | <i>The X-ray Correlation Spectroscopy Instrument at the Linac Coherent Light Source</i> | Aymeric Robert Linac Coherent Light Source, SLAC National Accelerator Laboratory, Stanford, USA |
| 13:00 - 13:40 | <i>Pump-probe XFEL coherent diffraction imaging of femtosecond laser irradiated Au nanocrystals</i> | Loren Beitra London Centre for Nanotechnology, University College London, UK (Prof. I. Robinson's lab) |
| 13:40 - 14:45: Light Lunch | | |
| 14:45 - 17:00 | Round Table, Closing remarks | All speakers |