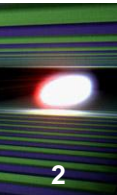




“International Workshop on X-Ray Diagnostics and Scientific Application of the European XFEL”

-

Closing Remarks



● Hard X-rays
 ● Soft X-rays

Instrument	Brief description of the instrument
SPB	Ultrafast Coherent Diffraction Imaging of Single Particles, Clusters, and Biomolecules – Structure determination of single particles: atomic clusters, bio-molecules, virus particles, cells.
MID	Materials Imaging & Dynamics – Structure determination of nano-devices and dynamics at the nanoscale.
FXE	Femtosecond X-Ray Experiments – Time-resolved investigations of the dynamics of solids, liquids, gases.
HED	High Energy Density Matter – Investigation of matter under extreme conditions using hard x-ray FEL radiation, e.g. probing dense plasmas.
SQS	Small Quantum Systems – Investigation of atoms, ions, molecules and clusters in intense fields and non-linear phenomena.
SCS	Soft X-ray Spectroscopy and Coherent Scattering – Electronic and atomic structure and dynamics of nano-systems and of non-reproducible biological objects using soft X-rays.

■ Instrument Workshops:

- SQS – Nov '08, Aarhus, Dänemark
- SPB – Nov '08, Uppsala, Sweden
- HED – Mar '09, Oxford, UK
- SCS – Jun '09, Villigen, Switzerland
- MID – Oct '09, Grenoble, France
- FDE – Dec '09, Budapest, Hungary



■ The Workshops brought together potential users of the instruments with purposes:

- to review the areas of application of the instrument
- to identify beam parameters and requirements to the experimental station(s) from the side of different experiments (**Diagnostics!**)

Diagnostics & Scientific Application Workshop

- This Workshop ensures close interaction between diagnostics specialists and the European XFEL Users' community in order to:
 - present to the users the initial diagnostics concept
 - get users' feedback to improve the suggested approach



Diagnostics & Scientific Application Workshop

62 participants

Students,
PhD Students and Junior
Scientists

8 bursaries

Speakers or Participants from

9 countries

Number of
Participants from

Germany - 23

Poland - 21

Other countries - 1 to 3

European XFEL International Workshop on X-ray Diagnostics and Scientific Application of the European XFEL

14 - 17 February 2010
Hotel Zamek Ryn, Poland

The Andrzej Soltan Institute for Nuclear Studies (Swierk, Poland) and the European XFEL (Hamburg, Germany) jointly organize an International Workshop on X-ray Diagnostics and Scientific Application of the European XFEL. It is dedicated to the presentation and discussion of new concepts and ideas in the area of special diagnostics of X-ray FEL radiation, requesting e.g. the single shot measurement of time domain, spectral and coherence properties. Furthermore, scientific projects involving intense, ultrafast and coherent X-ray FEL radiation will be presented.

The Workshop will be accompanied by a seminar on the rising perspectives on FEL applications for the studies currently carried with quantum lasers and synchrotrons.

Young scientists bursaries
Deadline January 10th 2010
(see website for details)

The workshop is co-funded by the European Commission through the Pre-XFEL grant. This will allow free of charge access to the workshop.

Local organizer
The Andrzej Soltan Institute for Nuclear Studies
Swierk, Poland

International Programme Committee
Christian David (PSI)
Gyula Faigel (SZFKI)
Jan Grünert (European XFEL)
Jacek Krzywinski (SLAC)
Serguei Molodtsov (European XFEL)
Kal Tiedtke (DESY)
Thomas Techentscher (European XFEL)

www.xfel.pl/ryn2010
Registration deadline
January 10th 2010

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All participants contributing to
the scope of the Workshop

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