

International Workshop on Time-Resolved X-Ray Dynamics

August 4 - 8, 2008

Scientific coordination:

I.S. Ko
POSTECH
Korea



J.-M. Rost
MPI PKS Dresden
Germany

G. Schütz
MPI Metallforschung, Stuttgart
Germany

W. Wurth
Universität Hamburg
Germany

Organisation:

Renate Seidel
MPI PKS Dresden
Germany



Jointly sponsored by the **Max Planck Institute for the Physics of Complex Systems (mpipks)** and the **Asian Pacific Center for Theoretical Physics, Pohang, Korea (APCTP)**

Presently, we witness a fast development of new light sources. Light pulses of soft X-ray frequency and attosecond pulse length open the way to attosecond science. Pulses of slightly longer duration but frequency reaching into the 10 keV range are being realized at the new X-ray free electron lasers. Finally, the next generation light sources evolve synchrotron radiation into a tool to resolve microscopic dynamics in the angstrom - sub-picosecond domain in space and time. Technologically, these light sources have a different background, but the physical processes one can initiate and monitor with them are growing together.

This workshop is intended to bring together scientists who work with these new light sources in very different areas from biology to material science with an emphasis on the basic physical processes. At the same time we invite young scientists who want to become involved in this research to participate, in particular also in the summer school.

The summer school for students and postdocs will take place immediately before the workshop, see separate announcement.

Invited speakers include:

U. Becker (FHI Berlin)
P. Bucksbaum (Stanford U)
H. Chapman (DESY Hamburg)
H. Ihee (KAIST)
P. Lambropoulos (IESL Heraklion)
M. Murnane (U Colorado)
D. Reis (U Michigan)
I. Schlichting (MPI Heidelberg)
K. Sokolovski-Tinten (U Duisburg)
H. Suk (GIST)
J. Ullrich (MPI HD Heidelberg)

Ch. Bostedt (TU Berlin)
A. Cavalieri (MPQ Garching)
S. Eisebitt (BESSY Berlin)
T. H. Joo (POSTECH)
R. Moshhammer (MPI HD Heidelberg)
D. Y. Noh (GIST)
U. Saalman (MPI PKS Dresden)
B. Schönlein (LBL)
S. Southworth (ANL Argonne)
S. Techert (MPI DS Göttingen)
M. Weinelt (MBI Berlin)

Ch. Bressler (EPFL Lausanne)
A. Cavalleri (U Oxford)
A. Föhlisch (U Hamburg)
D. E. Kim (POSTECH)
S. Mukamel (UC Irvine)
C. Quitmann (PSI SLS)
R. Santra (ANL Argonne)
C. Schroer (TU Dresden)
L. Strüder (MPE Garching)
K. Ueda (Tohoku U)
M. Wulff (ESRF)

Applications for participation and poster contributions are welcome and should be made by using the application form on the workshop web page (please see URL below). The number of attendees is limited. There is a **registration fee of 100 €** to be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses. A parent-child apartment and childcare are available upon request.

Deadline for registration is June 15, 2008.



For further information please contact:
Visitors Program - Renate Seidel
Max-Planck-Institut für Physik komplexer Systeme
Nöthnitzer Str. 38, D-01187 Dresden
Tel.: +49-351-871-2105 / Fax: +49-351-871-2199
trxray08@mpipks-dresden.mpg.de
<http://www.mpipks-dresden.mpg.de/~trxray08>

