

The Max-Born-Institute for Nonlinear Optics and Short Pulse Spectroscopy (MBI) organizes a workshop on

Nonlinear nanostructures for ultrafast laser applications

Location:

Max Born Lecture Hall, MBI, Adlershof Campus, Berlin, Germany

Date: May 19 - 20, 2011

Time: Entrance/Registration: 08:00 a.m. May 19
Opening remarks: 10:00 a.m. May 19
Final Session: 04:00 p.m. May 20

Lab visits are optionally planned at Max-Born-Institute and Leibniz Institute for Crystal Growth (IKZ).

The Workshop continues the exchange of scientific results and ideas started successfully at a previous workshop on ZnO and TiO₂ nanostructures held in 2009. Two focus sessions on activities in the frame of Laserlab Europe and on femtosecond laser induced periodic structures in metals will be held. The keynote talk will be given by Prof Dr. Shuji Sakabe, Kyoto University.

Contributions of students and young scientists are welcome. Part of the accepted papers will be presented as posters, depending on the number of submissions. Advanced registration (free of charge) is required.

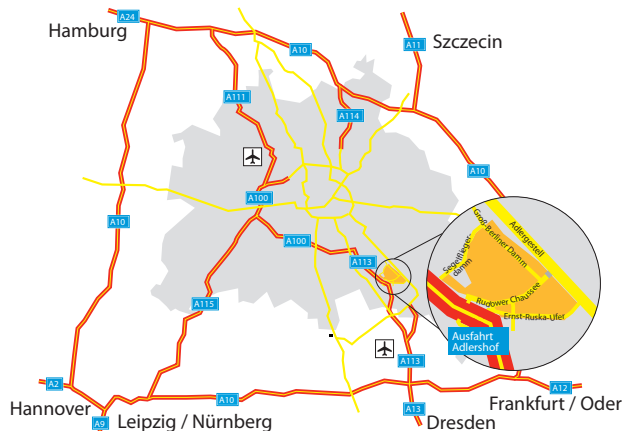
Looking forward to meeting you in Berlin

on behalf of the organizers

Dr. Ruediger Grunwald

Location Address:

Max-Born-Institute
Max-Born-Straße 2A
12489 Berlin-Adlershof
Tel. +49 (0) 30 - 6392 1402



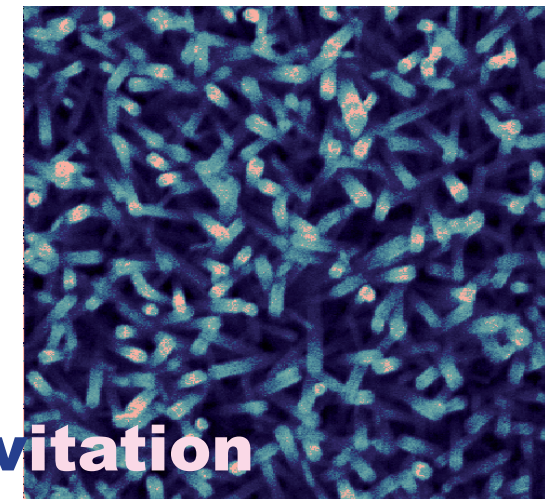
Recommended accomodation (to be arranged by participants)

Dorint Hotel Adlershof

Rudower Chaussee 15 - 12489 Berlin
Tel: +49 (0)30 678 22-0
Fax: +49 (0)30 678 22-10 00
Email: info.berlin-adlershof@dorint.com
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Airporthotel Berlin-Adlershof

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Invitation

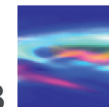
2nd International Workshop on

Nonlinear nanostructures for ultrafast laser applications

May 19 - 20, 2011



OpTecBB



Program committee:

Prof. Thomas Elsaesser

(Max Born Institute, Berlin, Germany)

Prof. Peter R. Herman

(University of Toronto, Canada)

Prof. Peter G. Kazansky

(ORC, University of Southampton, UK)

Prof. Christoph Lienau

(University Oldenburg, Germany)

Prof. Gerd Marowsky

(Laser Laboratory Göttingen, Germany)

Local organizing committee:

Dr. Ruediger Grunwald

Daniela Stozno

Dr. Bernd Weidner

Email: MBI-NANO-2011@mbi-berlin.de

Website: www.mbi-berlin.de
www.laserlab-europe.eu

Registration Fee:

There will be no registration fee.

Main Topics (preliminary list):

- Fabrication of nanomaterials for nonlinear optics (nanowires, nanorods, nanotubes, nanolayers, nanostructured bulk and nanolayer materials)
- Ultrashort-pulsed laser excitation of semiconductor nanomaterials
- Nonlinear spectroscopy of nanomaterials (pump-probe experiments, Raman spectroscopy)
- Specific nonlinear excitation channels of semiconductors (multiphoton absorption, harmonic generation)
- Laser-induced periodic surface structuring on the nanoscale (generation of sub-wavelength and deep sub-wavelength structures with femtosecond lasers, polarization dependent LIPSS, influence of initial scatterers, dynamics, large area LIPSS, coherent linking)
- 3D materials processing on the nanoscale (mechanisms, state of the art)
- Applications (nonlinear near field optics, sensors, photonics components such as waveguides, photodynamic therapy, photovoltaics, advanced pulse diagnostics)

Submission of Abstracts

Authors should submit a one-page abstract in English.

Page format A4 with 2.5 cm margins on each side. Text should be written in Times New Roman (12 pt). The abstract should be prepared in Microsoft Word. Figures need to be included in the abstract. All abstracts will be reviewed by the program committee, and authors of accepted contributions will be informed by the organizers.

**Deadline for Abstract Submission:
March 15, 2011**

**Deadline for registration:
April 15, 2011**

**Please register online at:
<http://www.laserlab-europe.eu/nanostructures-workshop>**

Registrations are also accepted from participants not presenting a paper.

The abstracts should be submitted by e-mail to
MBI-NANO-2011@mbi-berlin.de

Please note that by submitting electronically to the above email address you agree to the publication of your abstract on LaserlabEurope's homepage (will be published after the workshop has taken place).

Selected contributions of the workshop will be published in a book at Springer Verlag.