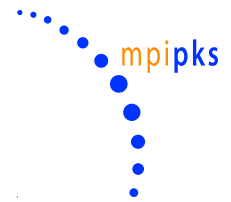




MAX-PLANCK-INSTITUT FÜR PHYSIK KOMPLEXER SYSTEME  
DRESDEN, GERMANY



## PhD School of the INT-network CORINF on Correlated Multielectron Dynamics in Intense Light Fields


11 - 15 June 2012

*Scientific coordination:*

<b>Misha Ivanov</b> Max-Born-Institut & Humboldt-Universität zu Berlin Berlin, Germany	<b>Jan-Michael Rost</b> Max Planck Institute for the Physics of Complex Systems Dresden, Germany
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*Organisation:*

**Katrin Lantsch**

Sponsored by the INT-network CORINF 

The school, organized within the European Initial Training Network Correlated Multielectron Dynamics in Intense Light Fields (CORINF), is open to participants from both inside and outside the network. It will introduce its participants to strong field and attosecond science and the emerging field of imaging dynamics of single molecules with the combination of sub-femtosecond temporal and sub-Angstrom spatial resolution.

Lecture topics will include:

- Overview of strong field and attosecond science,
- Imaging single molecule dynamics at sub-femtosecond timescale:
  - Approaches using intense infrared fields: basic ideas and challenges
  - Approaches using X-ray radiation: basic ideas and challenges
- Theoretical methods in strong-field and attosecond science,
  - Analytical approaches in strong-field physics
  - Numerical methods for single active electron
  - Numerical methods for multi-electron dynamics
  - Interfacing with quantum chemistry

The school will include tutorial lectures and hands-on training exercises, where several groups will work on specific problems, some of them still unsolved.

**Invited lecturers:** V. Averbukh (London, UK), E. Charron (Paris, France), O. Kornilov (Berlin, Germany), J. Marangos (London, UK), S. Patchkovskii (Ottawa, Canada), U. Saalmann (Dresden, Germany), A. Saenz (Berlin, Germany), A. Scrinzi (München, Germany), O. Smirnova (Berlin, Germany), H. van der Hart (Belfast, Ireland)

**Applications** for participation and poster contributions are welcome and should be submitted by using the application form on the school's web page (please see URL below). The number of attendees is limited. The **registration fee** for the workshop is **120 €** and should be paid by all participants. Costs for accommodation and meals will be covered by the INT-network CORINF. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

**Applications received before 31 March 2012 are considered preferentially.**

**For further information please contact:**

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