



The Laboratory of Attosecond Physics (LAP) at the Max Planck Institute of Quantum Optics (MPQ) is seeking a **post-doctoral researcher** in experimental physics for the field of

### **Attosecond Spectroscopy of Condensed Matter.**

#### Job description:

The successful candidate will join a team of researchers from LAP (Prof. F. Krausz) and the Technical University Munich (Prof. R. Kienberger, Prof. P. Feulner and Prof. J. Barth) studying electron dynamics in condensed matter with attosecond time resolution. Utilizing ultra-short, 1.5-cycle optical laser pulses, we generated isolated extreme ultraviolet attosecond as well as extreme ultraviolet few-fs laser pulses and combine these with a surface science approach to study electron dynamics on the attosecond and few-femtosecond time scale. Systems under investigation range from clean metal, semiconductor and dielectric surfaces to heterosystems, e.g., atomic and molecular adsorbates on metal surfaces.

#### Requirements:

A PhD in physics, physical chemistry or a relevant discipline is required. In addition, we expect experience in two or more of the following topics: time-resolved spectroscopy, ultrafast electron dynamics, solid state physics, laser physics, surface science. In view of the demanding nature of the research topic, we are looking for a highly motivated candidate with the ability to act effectively as part of a multidisciplinary research team. Good command of English is a prerequisite.

#### Conditions of Employment:

We offer a Max Planck Postdoctoral Research Stipend.

#### Application:

We ask interested candidates to submit their CV, three recent publications and the names of two or more references to:

Dr. Ralph Ernstorfer  
Max Planck Institute of Quantum Optics and Technical University Munich  
Hans-Kopfermann-Str. 1  
85748 Garching

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Further information: <http://www.attoworld.de>  
<http://www.e20.ph.tum.de>  
<http://www.attoworld.de/junresgrps/attosecond-dynamics.html>  
<http://www.munich-photonics.de>