



**LMU Munich and Max Planck Institute of Quantum Optics, Chair of
Prof. Krausz**

Diploma/Master thesis position

**Development of a femtosecond high-power and high-repetition rate
table-top thin-disk-based laser system for high harmonic generation**

Position description:

**High-peak-power megahertz-repetition rate femtosecond laser systems have
broad range of scientific applications: pump-probe spectroscopy, attosecond
pulse generation, etc. The project includes both experimental and theoretical
work aimed at developing a high-energy broadband thin-disk Yb oscillator.**

Your tasks:

- **development of a broadband femtosecond thin disk Yb oscillator**
- **complete characterization of this laser system**
- **numerical optimization of the cavity configuration and simulations of the
stability regime of a soliton mode-locking**

Your qualification:

- **good grades**
- **high motivation**
- **basic knowledge in optics**
- **programming skills**

Please forward your application including your CV and university grades to:

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