



Laboratory for Extreme Photonics

The newly established Laboratory for Extreme Photonics (LEX Photonics) at the Faculty of Physics of the Ludwig-Maximilians-Universität München (LMU) aims at developing novel ultrahigh-power light sources. The final goal is to apply these unique light pulses to medical diagnosis and therapy as well as to fundamental research in the field of attosecond science.

We are looking for a

postdoctoral candidate

to strengthen our research team. We are working on the limits of current state-of-the-art technology by developing a high repetition rate (5 kHz), few-cycle, tens of TW peak power light source. The system is based on **short-pulse-pumped optical parametric chirped pulse amplification (OPCPA)**, where the short (picosecond-scale) pump pulses are provided by a **diode-pumped thin-disk laser**.

In this laser development project a strong interest in experimental work is necessary. Good knowledge of optics and of solid-state laser technology is highly desirable. Programming skills in LabView and some knowledge of Matlab/Mathematica would also be advantageous. The applicant must be able to work in a team, which requires appropriate communication and coordination skills.

Contact:

Dr. Zsuzsanna Major
Ludwig-Maximilians-Universität München
Fakultät Physik, Sektion Physik
Am Coulombwall 1
85748 Garching
Phone: +49 89 28914021

zsuzsanna.major@mpg.mpg.de
<http://www.lex-photonics.de/index.html>