

## **UDE Guided Laboratory Tours on 4.11. and 2.12.: Discover High-Performance Lasers**

**Exclusive insights into the laser laboratory of the new special research field 1242 are being offered by the University of Duisburg-Essen (UDE) Faculty of Physics on 4 November and 2 December (17:00, meet at the entrance to the MG building on Duisburg campus). Entrance is free, but registration in advance is necessary as the number of participants is limited.**

Setting up new laser technology from different components and operating it is a real challenge, because spectroscopic methods require tailor-made technology. Two guided laboratory tours now offer exciting insights into top research into ultrafast processes to all those who are curious and interested. After all, how does the laser light get around the corner? Why is it converted? And how does laser cutting work?

Thematically, the new SFB 1242 focuses on the "non-equilibrium dynamic of condensed matter in the time domain". As we know, solid matter contains atoms and electrons, which are excited and transformed into a state of higher energy by lasers, for example. In order to develop a cross-material, microscopic understanding of such non-equilibrium states, the SFB combines scientific activities from physics, chemistry and the nano-sciences.

In this way, completely new material properties and potential applications could be created, such as silicon wafers in solar technology or isolators in electrical devices.

Note for the editorial team: A photo of the laser laboratory (Photo credits: UDE) is available at the following link: [http://www.uni-due.de/de/presse/pi\\_fotos.php](http://www.uni-due.de/de/presse/pi_fotos.php)

### **Further information and registration:**

Steffi Nickol, + 49 (0) 203/ 379-8177, [steffi.nickol@uni-due.de](mailto:steffi.nickol@uni-due.de)

*Edited by: Steffi Nickol, + 49 (0) 203/ 379-8177, [steffi.nickol@uni-due.de](mailto:steffi.nickol@uni-due.de)*