

At the Institute of Physics, University of Freiburg, we are offering

PhD position (m/f/d)

on **Femtosecond Pump-Probe Photoelectron and Photoion Spectroscopy**

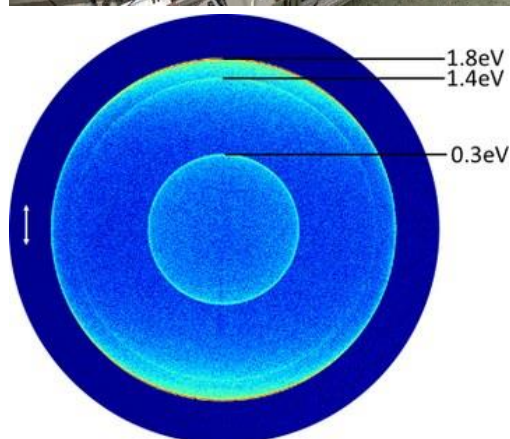
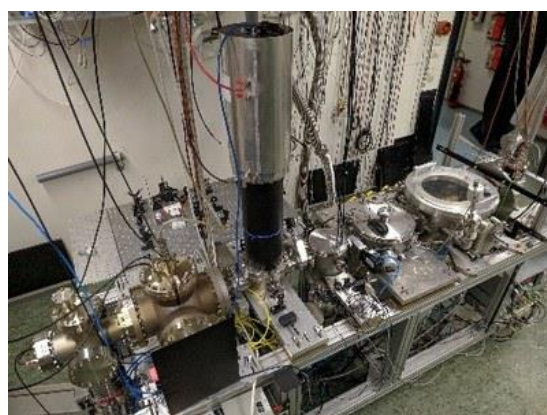
Pump-probe photoelectron spectroscopy is a powerful tool to study the excited state dynamics of atoms, molecules and molecular clusters, allowing to directly observe excited state populations on the timescales relevant for vibronic relaxation and chemical reactions. Such processes, triggered by the absorption of a photon are of utmost importance in many fields ranging from photovoltaic applications, over atmospheric chemistry to biochemistry.

We are looking for a highly motivated PhD student to join our team. You should have a strong interest in experimental Atomic and Molecular Physics or Physical Chemistry. Experience with lasers, vacuum equipment, or programming can be advantageous.

Your task will be to conduct research on the relaxation and reaction dynamics of various types of molecular systems of high relevance for organic photovoltaics. You will work with a state-of-the-art setup for pump-probe experiments with photoelectron and photoion detection.

Applications should be sent as a single pdf-file including a letter of motivation, a CV, certificates of the university degrees (with grades) and the contact details of at least two referees. Applications should be submitted until **March 31, 2024**.

The University of Freiburg seeks to increase the number of female scientific faculty members and therefore strongly encourages qualified women to apply for the position. The university is committed to provide a family-friendly workplace. In case of equal qualification, persons with disabilities (Schwerbehinderte) will be given preference.



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