UNIKASSEL VERSITÄT

Physikalisches Kolloquium

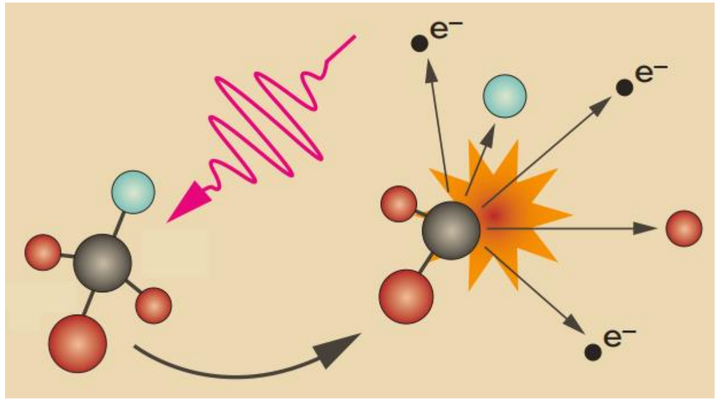
Thursday, 09.05.2019, 16:15, HS 100
Reception with coffee & cookies 15:45
(For university staff: please bring your own cup for sustainability reasons)

Prof. Dr. Raimund Feifel, University of Gothenburg, Sweden:

Ionisation processes of atoms and molecules probed by static and time resolved multi-particle correlation spectroscopy

Abstract
Investigating in detail the structure and dynamics of atomic and molecular species which interact with electromagnetic radiation in the vacuum ultraviolet and X-ray spectral region both in a static fashion and on their inherent, short time scale (femtoseconds to attoseconds) is important not only for Physics, but also for Chemistry and Biology. For instance, currently there is a great push towards probing the first stages of photochemical reactions, and identifying the intermediate steps of the system evolution, resulting in molecular movies.

In this colloquium, I will review the innovative spectroscopy tools, which we constantly develop and adapt to synchrotron radiation, Free Electron Laser and ultrafast table-top laser experiments and present some examples of the results obtained. I will also give an outlook of what we plan to do in the near future.



All of you interested in physics are cordially invited!

Contact: Prof. Dr. Arno Ehresmann, Dr. André Knie, Experimental Physics IV More Information: uni-kassel.de/go/physikalisches_kolloquium