

# Physikalisches Kolloquium



**Thursday, 11.05.2023, 16:15, HS 100**

Reception with coffee & cookies 16:00

(For university staff: please bring your own cup for sustainability reasons)

**Prof. Dr. Marc Simon, Sorbonne University, Paris, France:**

## *Relaxation dynamics of isolated Atoms and Molecules in the tender X-ray region*

### **Abstract**

Tender X-ray - Matter interaction in gas phase is relatively unexplored with modern techniques (3<sup>rd</sup> generation Synchrotron). This photon energy range offers opportunities to study High energy photoemission recoil (translational, vibrational and rotational), Post Collision Interaction (energy exchange between photoelectron and Auger electron as well as Momentum transfer close to the ionization threshold) and Double Core Hole studies [1]. I will show recent results on studies of these processes in condensed phase and will describe new experimental setup our group is developing.

[1] M. N. Piancastelli et al., Reports on Progress in Physics 83 016401 (2020)

All of you interested in physics are cordially invited!