



# SFB1242

Nichtgleichgewichtsdynamik kondensierter  
Materie in der Zeitdomäne

UNIVERSITÄT  
DUISBURG  
ESSEN

*Open-Minded*

**23.11.2020 / 10 Uhr c.t.**

## **Attosecond pulses for capturing electron dynamics**

**Prof. Dr. Anne L'Huillier**

Lund University

Since the beginning of the millennium, physicists know how to generate pulses of light of attosecond duration ( $1 \text{ as} = 10^{-18} \text{ s}$ ), thus gaining access to this incredibly short time scale. This presentation will describe how attosecond pulses are generated when intense laser pulses interact with atomic gases, and what are their characteristics. We will then show how these pulses can be used to investigate fast electron dynamics in atomic photoionization.

**Für diese Zeit steht eine Kinderbetreuung nach vorheriger Anmeldung zur Verfügung.**

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