

BENEFICIARY OF MEDEA

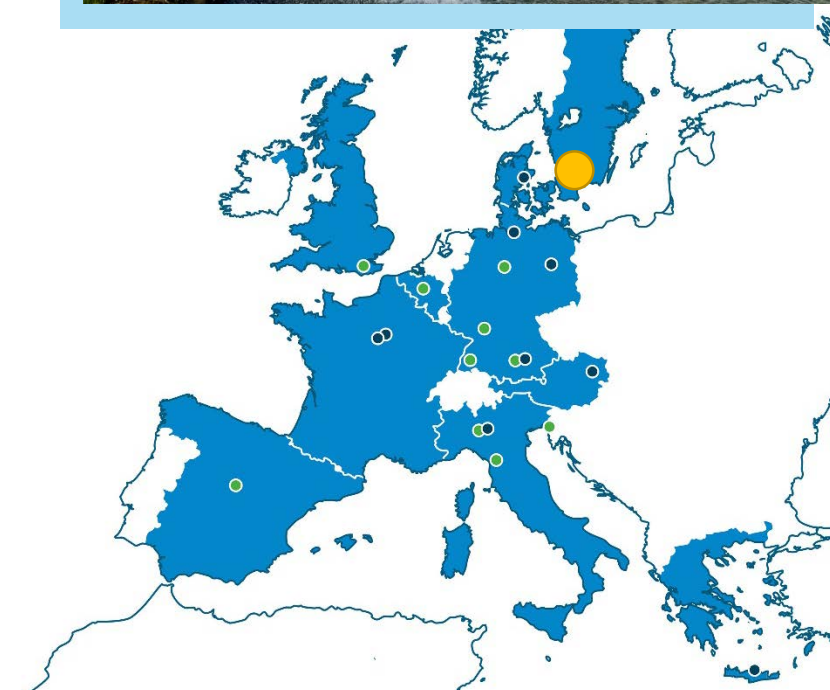
# Lund University

SCIENTISTS IN CHARGE:

- **Per Johnsson**
- **Anne L'Huillier**

SCIENTIFIC EXPERTISE & FACILITIES:

- High-order harmonic generation and attosecond atomic and molecular physics using:
  - **Ti:Sa CPA:** 10 Hz, 100 mJ, 35 fs, 800 nm
  - **Ti:Sa CPA:** 1 kHz, 5 mJ, 20 fs (CEP-stable), 770-830 nm
    - + **OPA:** <1 mJ, 1100-1800 nm
  - **OPCPA:** 200 kHz, >5  $\mu$ J, <7 fs (CEP-stable), 850 nm
  - **Yb:KGW CPA (Pharos):** 5-200 kHz, 8 W, 170 fs, 1030 nm
    - + **OPA:** 600-3400 nm





EARLY STAGE RESEARCHER

## Jan Lahl

PROJECT: *Ultrafast molecular dynamics studied using photoelectron diffraction techniques*

Application of high-intensity attosecond pulse trains in XUV-pump/XUV-probe experiments on molecular dynamics, using ion-electron covariance imaging analysis.

EARLY STAGE RESEARCHER

## Yu-Chen Cheng

PROJECT: *High repetition rate attosecond source for experiments with energy, angular and temporal resolution*

Development and application of an OPCPA-based high repetition rate attosecond light source for studies of electronic correlation and electron-nuclear coupling in small systems, using high repetition rate photoelectron spectroscopy.

