

BENEFICIARY OF MEDEA

AMPLITUDE TECHNOLOGIES

SCIENTISTS IN CHARGE:

- **XIAOWEI CHEN**

SCIENTIFIC EXPERTISE & FACILITIES:

High performance lasers for medical scientific and fundamental physics applications

- Ultra-short, high-contrast, high peak power (TW even PW) Ti:Sa lasers
- CEP-stable, ultra-short, high average power, multi-kHz Ti:Sa lasers
- High energy YAG pump lasers
- Metrology instrumentation





EARLY STAGE RESEARCHER

Anna Golinelli

PROJECT: **CEP-stabilized multi-kHz regenerative amplifiers for attosecond experiments**

- Development of a novel regenerative amplifier with energy up to 0.1 mJ
- Characterization and validation of CEP-stability of the new amplifier with $\text{RMS} < 300 \text{ mrad}$

EARLY STAGE RESEARCHER

Michele Natile

PROJECT: **High-energy CEP-stable pulses for nonlinear XUV spectroscopy**

- Test of mechanical stability of new developed optical mounts for CEP stabilization improvement
- Design and develop a high power laser amplifier

