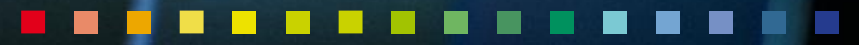




UltraFast
Innovations



YOUR KEY to innovation and success.

UltraFast Innovations GmbH

Johannes Blöchl



Johannes Blöchl
Development Engineer Optical Systems

MADEIRA: UFI's Single-shot CEP-meter to Characterize the Carrier-envelope-phase of Few-cycle Femtosecond Laser Pulses

8 November 2023. 16:00 - 17:00 CET

EPIC Members New Product Release



Our Company

Founded on July 2009

Spin-off from



Max Planck Institute
of Quantum Optics
MPQ

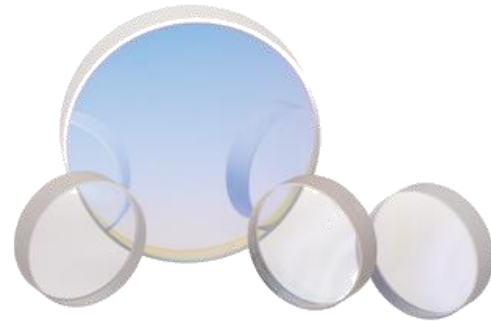
and



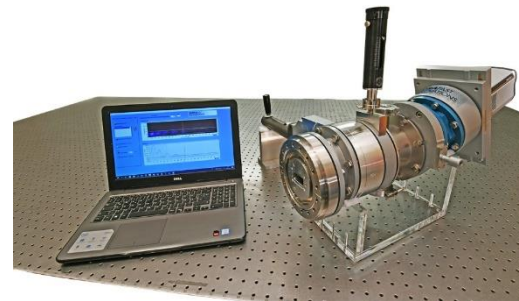
Ludwig-Maximilians-
Universität München
LMU

Current portfolio

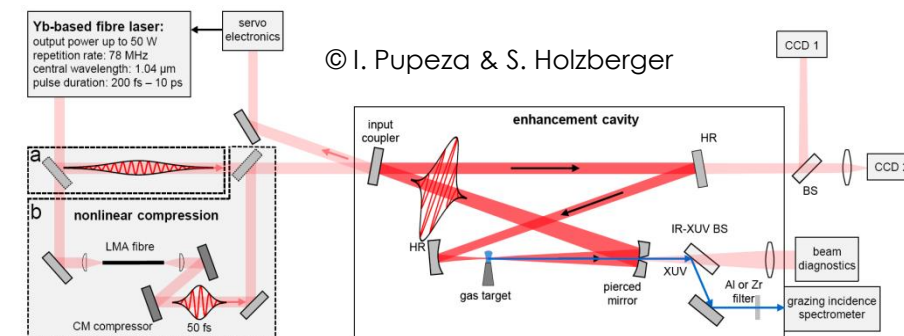
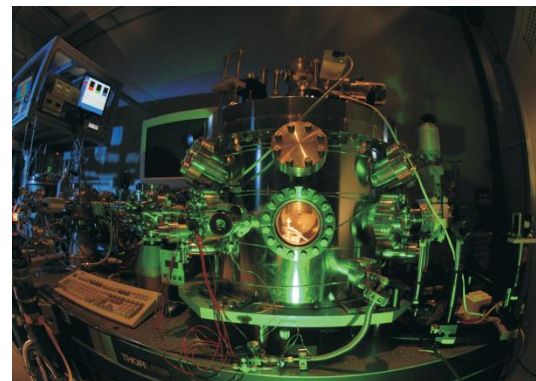
Mirrors (IR-XUV)



Devices



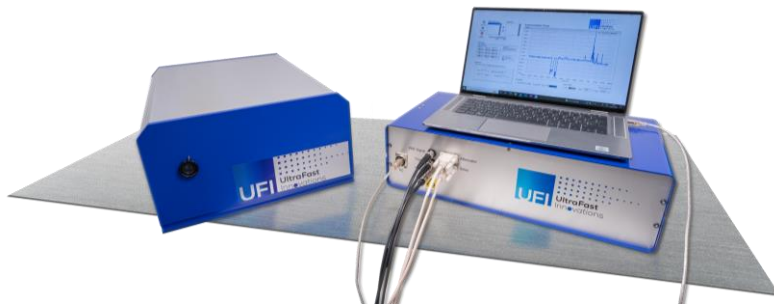
Assemblies



Characterization product line

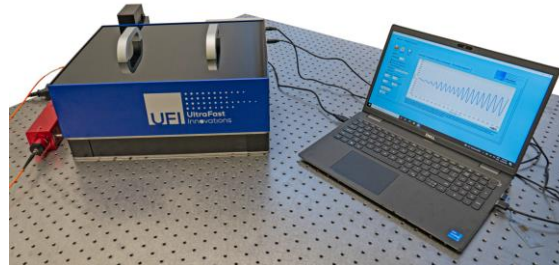
TUNDRA

Third-order autocorrelator



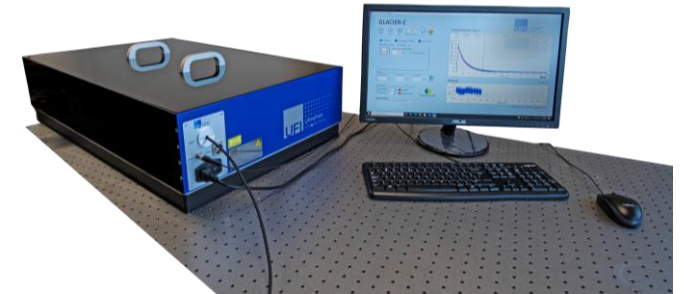
GOBI

White Light interferometer



GLACIER

Cavity-ringdown loss meter and reflectometer



XUV attosecond product line

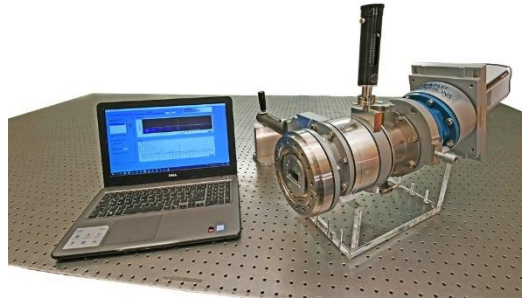
K2

Delay-Unit



EVEREST

VUV/XUV/Soft X-ray
Spectrometer



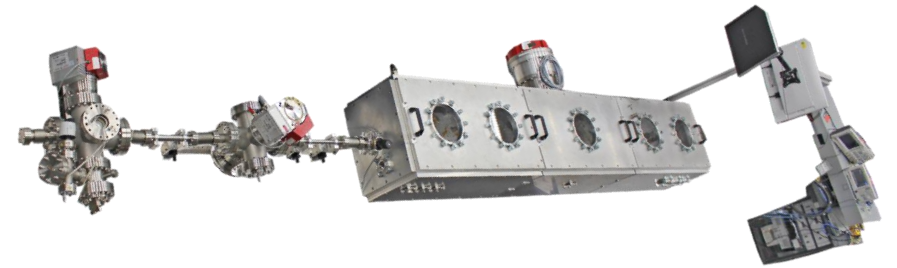
CAPELLA

Light field synthesizer



CALDERA

Enhancement cavity



SAVANNA

Hollow-Core-Fiber-Compressor



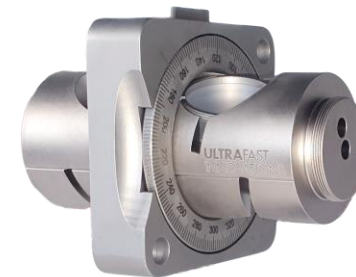
NEPAL

HHG chamber



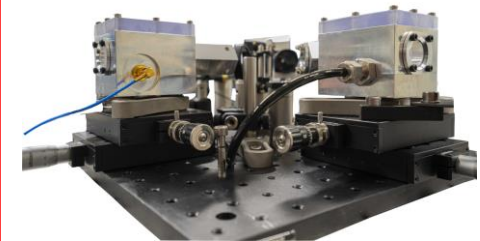
AURORA

XUV Phase retarder



MADEIRA

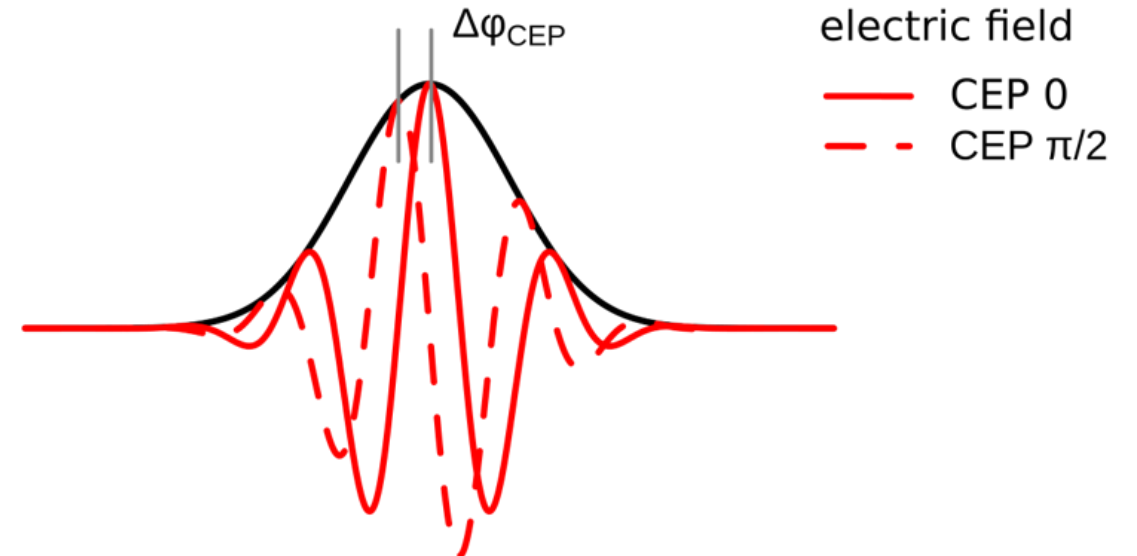
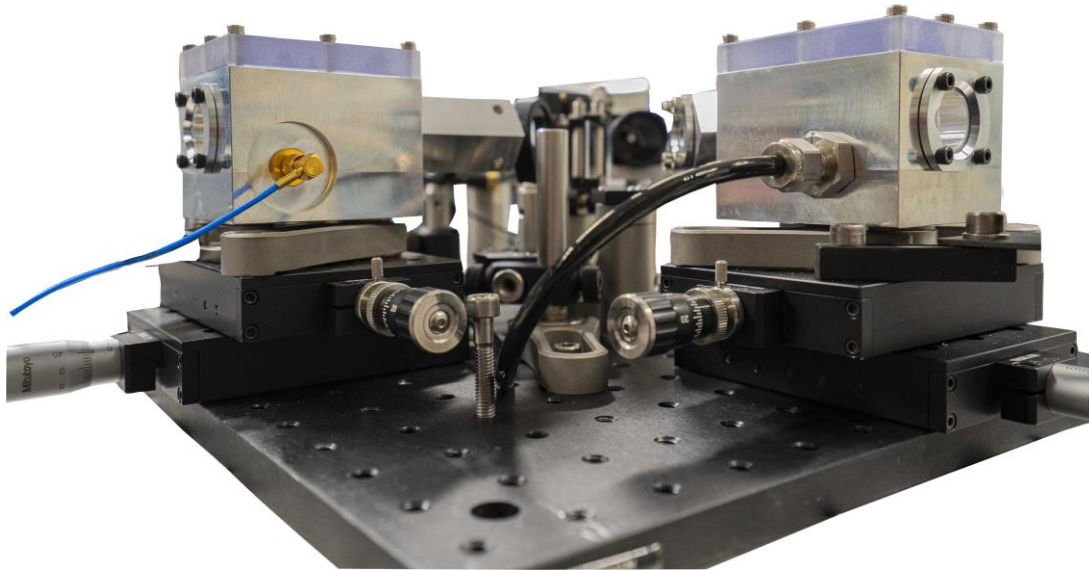
CEP-meter



MADEIRA: CEP-meter

New product

What's CEP?

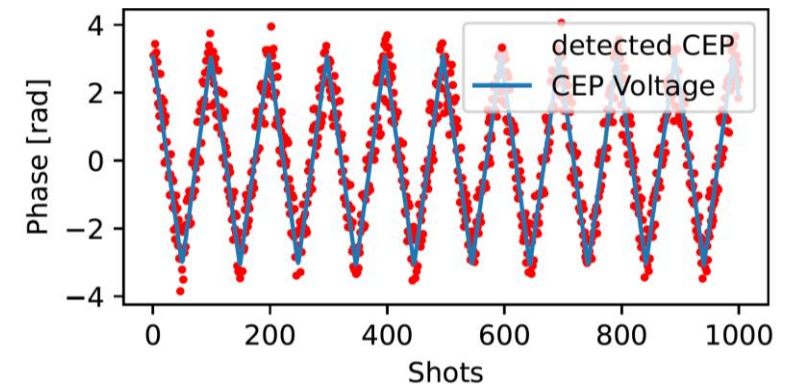
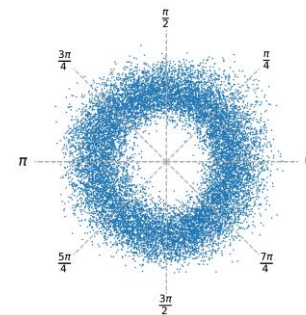
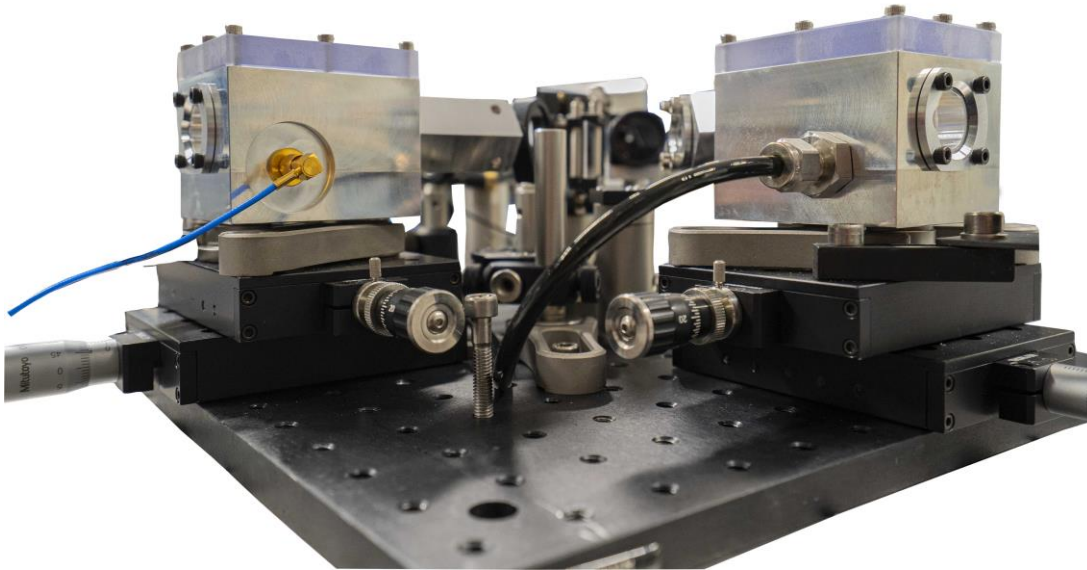


MADEIRA: CEP-meter

New product

Key Product Features

- Wavelength range: 500-1000 nm
- Pulse duration: ≤ 4.5 fs @750 nm central wavelength
- Input polarization: linear, p-pol
- Input pulse energy: 10-40 μ J, best performance at 30 μ J
- Repetition rate: 10 kHz
- Footprint: 35 x 30 cm^2
- Phase resolution: down to 200 mrad





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Thanks for your attention!

Contact us at:
info@ultrafast-innovations.com