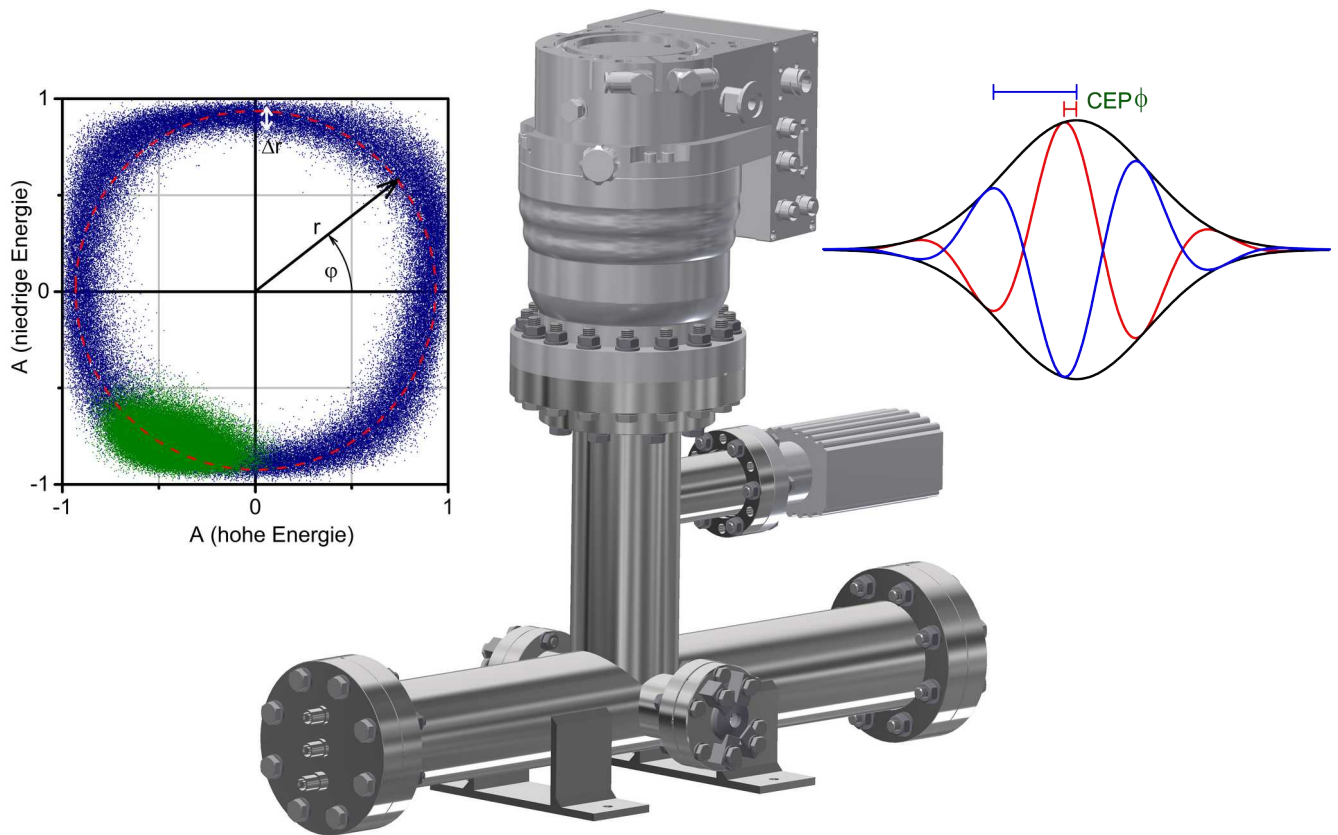


Stereo-ATI Few-Cycle Pulse Meter

Data sheet



Capabilities:

- access to Carrier-Envelope Phase (CEP) and laser pulse asymmetry (i.e. duration)
- simultaneously, continuously, for every single shot in real time
- @ several 100 kHz repetition rate
- typical precision ~ 80 mrad SD, and up to 20 mrad SD, depending on Laser
- allows for phase tagging and CEP-stabilization
- efficient Laser tuning and diagnostics tool

Range of operation:

- Pulse duration 1 – 3 optical cycles, e.g. about 2.6 – 8 fs @ 800 nm, extendable to 4 – 6 cycles
- Required pulse energy 10 – 100 μ J and linear, (horizontal) polarization
- Wavelength 400 – 2,000 nm

Footprint: 60 cm x 60 cm

References:

Wittmann et al. Nature Physics **5** (2009) DOI:10.1038/nphys1250
Sayler et al. Optics Letters **36** (2011) DOI:10.1364/OL.36.000001
Sayler et al. Optics Express **19** (2011) DOI:10.1364/OE.19.004464
Hoff et al. Optics Letters **43** (2018) DOI:10.1364/OL.43.003850

single cycle instruments UG (haftungsbeschränkt) & Co. KG,
Hans-Knöll-Straße 6,
07745 Jena, Germany
info@sci-phi.de