

# FASTLITE

Ultrafast - Shaping - Measurement - Control



## FRINGEEZZ

Integrated CEP detector

### Specifications

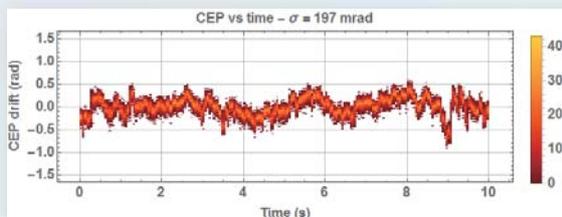
#### SINGLE SHOT CARRIER-ENVELOPPE-PHASE MEASUREMENT

- ✓ Single-shot CEP measurement at multi-kHz repetition rates
- ✓ Real time data analysis and data logging
- ✓ Plug and play feedback with the Dazzler CEP module

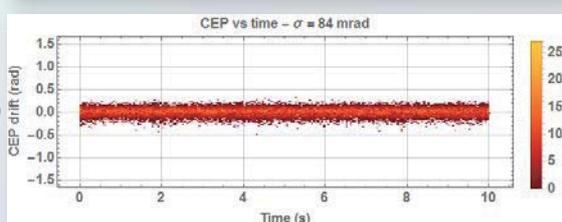
- CEP measurement speed up to 15 kHz
- Maximum laser repetition rate for single shot measurements > 100 kHz
- Measurement resolution 6 – 10 mrad
- Real time software analysis PSD, Statistics, Data-logging
- Hardware-only feedback, loop management by software.
- Optical input requirements
  - 5 to 15 interference fringes
    - On a 80 nm bandwidth centered between 800 and 900 nm
  - Or
    - On a 30 nm bandwidth centered around 510 nm
  - Fringes contrast >50%
  - Entrance slit 25 $\mu$ m
  - Energy 15-25nJ on the specified bandwidth

- ✓ Record CEP stabilization data with the Fringezz / Dazzler loop

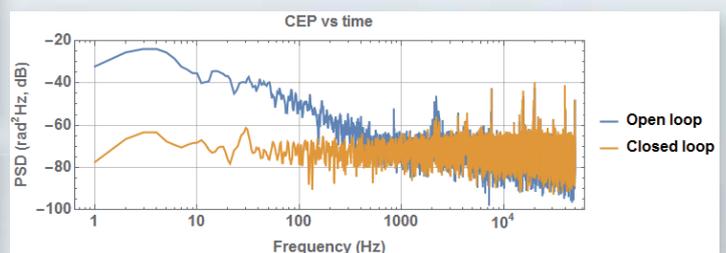
Open loop  
197mrad



Closed loop  
84mrad



PSD, open / closed loop



CEP data from Fastlite STARZZ OPCPA

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