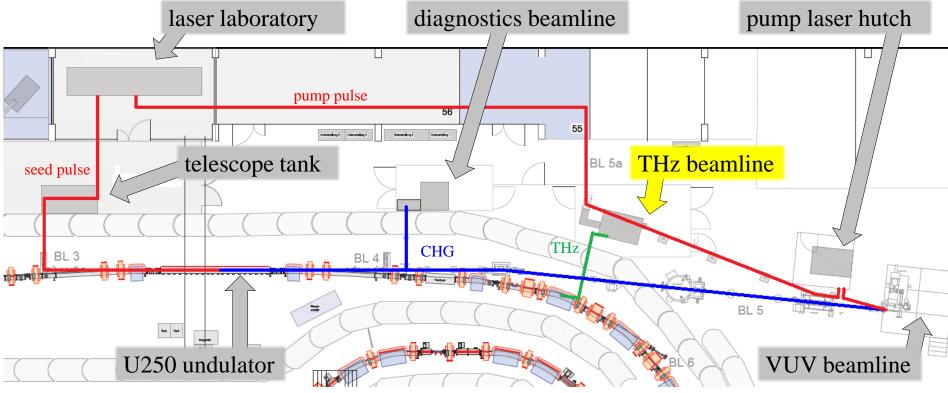
EO at DELTA Short Pulse Facility



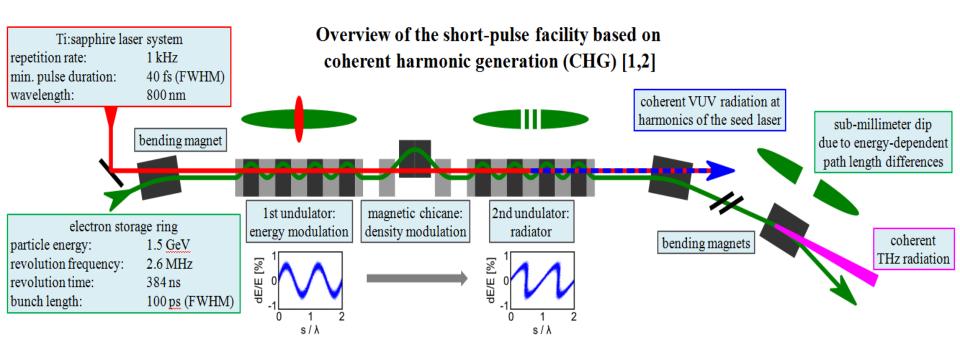
Laser properties	
wavelength	800 nm
pulse duration	40 fs
pulse energy	8 mJ
repetition rate	1 kHz

DELTA properties		
electron energy	1.5 GeV	
bunch length	100 ps	
single bunch current	20 mA	
revolution frequency	2.6 MHz	



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Coherent Harmonic Generation (CHG) Set-Up



Plans for the future: EEHG (Echo Enabled Harmonic Generation) Set-Up





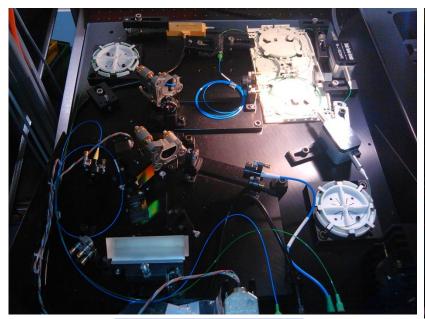
Yb-Fiber Laser System

Laser Properties:

central wavelength: 1030 nm spectral bandwidth: pm 40 nm

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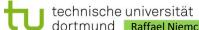
Yb-Laser consists of..





Laser Oscillator

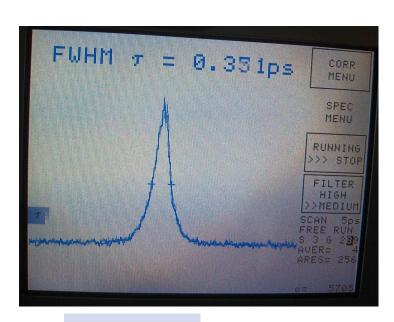
Laser Single Pass Amplifier





Plans for EO at DELTA

- -EO Sampling in Far-Field (at the THz-Beamline)
- -EO Spectral Decoding at the Thz-Beamline
- -EO Spectral Decoding in the Near-Field (inside the Beampipe)



Pulselength



THz-Beamline



