



3rd November, 2016 – 12:00 am
CFEL-bldg. 99, seminar room I (EG.076)

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**Few-cycle, high-repetition rate OPCPA for
attosecond science**

Optical parametric amplification (OPA) is becoming an increasingly important technology for ultrafast science. It carries the advantage of ultra-broadband amplification bandwidths and very good thermal conditions due to a negligible quantum defect. This leads to the possibility to design OPAs delivering pulses with only a few optical cycles, but also to obtain high pulse energies at high repetition rates. I will present the generation of a high repetition rate XUV source for attosecond science experiments and show the first results towards an atto-PhotoEmissionElectronMicroscope.