

Laser Seminar / NCCR MUST Seminar

Monday, August 31, 2015

Time	16.45
Location	ETH Zurich, Hönggerberg, HPF G6
Speaker	Jens Limpert Fiber & Waveguide Lasers, Institute of Applied Physics, Friedrich-Schiller-Universität Jena, Germany
Title	Coherent combination of fiber amplified ultrashort laser pulses
Abstract	In recent years intense laser pulses have found applications in various industrial and scientific areas. Significant progress has been made in scaling the energy of the pulses as well as the average power. However, different amplification schemes have been pushed to their specific limits, caused by detrimental nonlinear effects, by damage or by the occurrence of thermo-optical effects. New concepts have to be considered to address these issues and to enable new application fields. In that context, I will review the basics and achievements of coherent combination of amplified femtosecond pulses, a concept which has already out-performed single aperture femtosecond laser systems and which allows for a scaling to unprecedented performance levels, i.e. the combination of highest peak power and highest average power.
Host	Ursula Keller, Ultrafast Laser Physics, IQE
More Info	http://www.opteth.ethz.ch/news/laser_seminar



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Contact Daniela Hansen
E-Mail hansenda@phys.ethz.ch
Phone 044 633 36 02