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UNIVERSITÄT BERN

Seminar über Ultrafast Science and Technology

Referent: Dr. Beat Neuenschwander

Titel: Laser Microprocessing with Ultra-Short Laser Pulses: Basics, Limitations and Needs

Ultra-short laser pulses represent a versatile tool for laser microprocessing. Possible applications range from laser induced processes up to high energy pulses used e.g. for laser shock peening. The institute for Applied Laser, Photonics and Surface Technologies ALPS of the Bern University of Applied Sciences deals (among others) with high speed surface texturing. Increasing throughput always demands high average power laser systems, optimized and adapted process strategies. But even when working with optimized processes and strategies heat accumulation and/or shielding effects can restrain the power scale up process. We will give an overview about the process/strategy optimization and the todays limitations and needs as well.

Zeit: Donnerstag, 17.11.2016, 11:15 Uhr

Ort: **Hörsaal B116**, Gebäude exakte Wissenschaften, Sidlerstrasse 5, Bern, Schweiz