EINLADUNG

Vortragender: Dr. Joachim Hein
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Titel: The All-Diode Pumped Petawatt-Class Laser
POLARIS and Future Trends in Diode Pumped
High-Energy Laser Systems

Termin: Freitag, 25. Juni 2010, 14:00 Uhr s.t.

Ort: Seminarraum des Instituts für Photonik
Gußhausstrasse 27, 1040 Wien, Raum CBEG02

Abstract:
At the Friedrich-Schiller-University Jena a femtosecond fully diode-pumped glass laser system named POLARIS was set into operation. It is actually able to produce more than ten Joules of energy for a stretched pulse that is recompressed to 170 femtoseconds and focused to some microns in diameter. The underlying technology, applications as well as planned extensions in repetition rate and pulse energy based on new laser materials, advanced diode technology, and improved cooling schemes are reviewed in this talk.

Host: A. Baltuska