

Laserové centrum HiLASE Vás srdečně zve na seminář

An Overview of Laser Induced Damage Threshold Testing Capabilities at HiLASE

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Laser induced damage threshold, or LIDT, is a key parameter for all components in high-power laser systems. In pulsed systems, it establishes the limits of maximum achievable energy per laser pulse, and consequently average power. To provide reliable and stable laser sources, involved optical components have to be tested and must meet certain quality criteria. Access to high average power lasers within HiLASE significantly improves the reliability and validity of such tests and provides valuable feedback towards development and manufacturing of components for powerful laser systems.

In this talk, techniques for LIDT testing, setup providing maximum reliability and limitations related with current available conditions available at HiLASE will be discussed. In addition, experiments on measuring LIDT of mirrors at 3 ps pulse length and measuring LIDT of optical fibers at 10 ns pulse length will be presented. Means of “online” damage detection and sample analysis available at HiLASE will be discussed. Also, importance of following international standards for validity of LIDT measurements will be demonstrated.

který se bude konat ve čtvrtek 24.11. 2016 od 15:00

v přednáškové místnosti laserového centra HiLASE

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