

*Oddělení diodově čerpaných laserů, sekce výkonových systémů,
a realizační tým projektu HiLASE
Vás zve na seminář*

Development of high-power mid-infrared Er fiber lasers

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Pulsed lasers with high average power at wavelengths around 3 μm have potential applications in medicine because the absorption coefficient of biological tissue containing water is very high at such wavelengths. Diode-pumped Er-doped fluoride fiber lasers are among the most promising candidates for such purpose. In recent years, we have developed the most powerful 3 μm fiber laser with an output power exceeding 20 W. Widely-tunable 3 μm fiber lasers, 12 W average-power Q-switched 3 μm fiber lasers, and graphene Q-switched 3 μm fiber lasers have also been developed.

***který se bude konat dne 4.11.2013 od 14:30
v přednáškové místnosti „akvárium“ v 1. patře
Ústavu Informatiky AV ČR, v.v.i.***