

*Oddělení diodově čerpaných laserů a realizační tým projektu HiLASE
Vás zve na seminář*

Status of the POLARIS Laser Project

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The POLARIS project aims for a multiple 100 TW fully diode-pumped CPA laser. The basic technology and the current status is presented in this talk. The challenging task of diode-pumped ultra-short pulse amplification is solved with a number of sophisticated concepts. Among them are the arrangement of several thousands of pump diodes with its unique profile homogenization capability and the compression of the 150 fs pulses using a tiled grating. Pros and cons of these techniques are described. Recently the system gained significant improvements concerning the intensity contrast and the focal spot quality. The arrangements that were made to get this are explained. The achieved pulse parameters and plans to upgrade the system are given as well.

***který se bude konat dne 20.3.2012 od 09:30
v zasedacím sále***

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