

Centrum HiLASE Vás zve na seminář

Time-of-flight Mass spectrometry in laser-matter interaction studies

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Mass spectrometry (MS) is one of the most powerful techniques to study processes occurring during/after laser-matter interaction. In this talk, an overview of using MS techniques in laser ablation/desorption/excitation experiments will be given. The main types of mass spectrometers and typical experimental schemes will be considered. The main attention will be paid to time-of-flight (TOF) MS as to the most informative and frequently used technique. The use of TOF MS will be illustrated by examples of author's studies of various aspects of laser-matter interaction including synthesis of nanoclusters, dynamics of laser-ablation plasmas, pulsed laser deposition, laser excitation of gas-phase clusters, and laser-induced forward transfer of nanoparticles.

který se bude konat v pondělí 12. 1. 2015 od 15:00

v přednáškové místnosti centra HiLASE

Za Radnicí 828, Dolní Břežany