

*Oddělení diodově čerpaných laserů a realizační tým projektu  
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## ***Progress on laser driven x-ray sources at the Laboratoire d'Optique Appliquée***

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*The development of fast and ultra-fast high power laser systems has opened the path to the development of a large variety of short duration X-ray and XUV sources. Some of these sources, combining a short pulse duration (100 fs to few ps) and a reasonable amount of photons per pulse (from  $10^8$  to  $10^{12}$ ), are now mature for application experiments in numerous fields including solid state physics, biology, atomic physics, hot dense plasma and chemistry.*

*In this present contribution we present some aspects of the laser-driven x-ray research performed at the Laboratoire d'Optique Appliquée (France). We will concentrate on collisional soft x-ray lasers and x-ray radiation produced by plasma-produced relativistic electron beams.*

***který se bude konat dne 6.10.2010 od 9:30 v zasedacím sále  
Fyzikálního ústavu AV ČR, v.v.i.***