

Centrum HiLASE Vás srdečně zve na přednášku

Direct laser interference patterning technique as a flexible tool for surface patterning

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As a response to increasing competition in global markets, many industrial sectors aim at improving their product performances through surface functionalization providing them with dedicated functionalities such as tailored friction, antibacterial properties, aesthetic issues or self-cleaning capabilities, among other. In order to, satisfy the industrial needs, the processes that can structure the surface efficiently, ensuring an uncompromised quality together with high versatility and controlled costs need to be developed.

In this talk, I will introduce the process called Direct Laser Interference Patterning that is very attractive for material surface patterning. This process uses the periodic intensity distribution produced by the laser multi-beam interference to ablate directly the material. It utilizes the entire laser pulse energy and enables the large area, high aspect ratio and perfectly periodic surface structuring with just a single laser shot.

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