

Nanofabrication at the LZH

Monday, 3 June 2013 19:30 (30 minutes)

Miniaturization is a hot topic for the future of accelerator science. Reducing the size of accelerator devices, undulators and beam transport units could provide compact brilliant light sources.

We present how micro- and nanostructuring techniques can be combined to manufacture these components. Nanolithography enables us to fabricate planar structures with feature sizes of about 250 nm. Two-Photon-Polymerization allows the structuring of three-dimensional scaffolds with the same resolution. The combination of lithographic routines and post-laser-processes deliver arrays of homogenous-sized nanoparticles in a very precise order.

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