

Targetry for revealing laser-driven nanostructures in SAXS and GISAXS experiments with high repetition rate

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The first experiments with ultrafast SAXS and GISAXS using free-electron lasers have shown effects such as plasma expansion from micro- or nanostructured targets, for example clusters, gratings, wires or multilayers. These targets produce pronounced features in the SAXS and GISAXS signal due to their geometry. For investigating plasma instabilities or surface plasma waves, which have very subtle SAXS signatures, targetry with smooth planar geometry would be advantageous. High repetition rate targetry, for example liquid leaf targets and tape targets are discussed, which can facilitate parametric scans in SAXS and GISAXS experiments.

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