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Title

Terahertz radiation generation by beating of two spatial-Gaussian lasers

Source

Physics Letters A, vol.375, no.8, 21 Feb. 2011, 1191-4. Publisher: Elsevier Science B.V., Netherlands.

Abstract

Terahertz radiation generation is proposed based on beating of two spatial-Gaussian lasers in a periodic density plasma, where a transverse component of current is realized that resonantly excites the radiation with efficiency  $\sim 10^{-3}$ . Importance of laser-beam-width, amplitude and periodicity of density structure is discussed for the efficient THz generation. [All rights reserved Elsevier]. (27 References).