

214. Title: Terahertz radiation generation by beating of two spatial-Gaussian lasers

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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 similar to 10^{-3} . Importance of laser-beam-width, amplitude and periodicity of density structure is discussed for the efficient THz generation.