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Title: Angular distribution of the terahertz radiation intensity from the plasma channel of a femtosecond filament

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Abstract: A phenomenological model of the terahertz radiation of the plasma channel of a femtosecond filament has been elaborated that satisfactorily describes the experimental results of the detection of low-frequency radiation in air. The angular distributions of the terahertz radiation intensity in the absence and presence of an external electrostatic field have been obtained. The dependence of the divergence angle of the terahertz radiation on the filament parameters has been determined.