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标题: Terahertz emission from a two-color plasma filament in a slot waveguide

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摘要: Terahertz emission in forward direction from a long two-color filament placed in the center of a slot waveguide is reported. The waveguide improves the collection and imaging of the generated THz radiation. By tuning the plate separation and position of the waveguide along the filament axis, the emitted mode can be matched to the collection optics. We achieved an increase of the detected electric field by 40% and of the THz pulse energy by four times compared to the case without waveguide. (C)2012 American Institute of Physics. [<http://dx.doi.org/10.1063/1.3691921>]

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