Extreme Light Scientific and Socio-Economic Outlook



Contribution ID: 13 Type: not specified

Toward spatially uniform pulse compression of top-hat beams at the subpetawatt level of peak powers

Tuesday 29 November 2016 18:40 (20 minutes)

High-peak-power laser beams with a top-hat transverse intensity profile are shown to offer unique options for the spectral and temporal nonlinear-optical transformations of high-intensity laser fields, promising a new technology of spatially uniform pulse compression at the subpetawatt level of peak powers.

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Session Classification: POSTER SESSION

Track Classification: Poster Session