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Spectral modification of supercontinuum light by means of fs-light pulses optimized in a closed learning loop

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Abstract

First closed loop optimization experiments on the spectral envelope of white light produced by shaped fs pulses irradiated on a thin (2 mm) sapphire plate are presented. Thereby, the spectral position of the maximal white light intensity could overall be shifted by about 80 nm. The modification of this spectral characteristic due to non-linear effects in optimal control is discussed with regard to novel applications in laser development.



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