

Spectral broadening of 2-mJ ultrashort pulses in a convex-concave multipass cell in ambient air

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We demonstrate nonlinear spectral broadening of 2.1-mJ, 670-fs pulses at 210 W of average power in a focus-free compact 61.5 cm distance, convex-concave MPC in ambient air. We show pulse broadening from 21 nm to 24.5 nm, and we demonstrate compressibility down to 134 fs with excellent spectral homogeneity.

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