

Abstract Submitted
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Dispersion in an all-optical fiber modelocked laser JOSEPH IAFRATE, JEFFERSON STRAIT, Williams College — We have built an all-optical fiber laser modelocked with a nonlinear optical loop mirror (NOLM) designed to produce pulses on the order of one picosecond duration. The performance of this laser crucially depends on the net dispersion of the cavity, so we have investigated combining positive dispersion and negative dispersion optical fibers to optimize stability with short duration pulses.

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