

# Generation of 12 nJ Pulse Energy by a Thulium-doped Fiber Mamyshev Oscillator

*Tuesday, 30 August 2022 17:15 (15 minutes)*

We report on the generation of up to 12 nJ pulse energy with a compressed pulse duration of 156 fs by an ultrafast thulium-doped fiber Mamyshev oscillator. The oscillator incorporated double-clad fibers to provide a sufficient amplification with a high suppression of amplified spontaneous emission of 22 dB.

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**Session Classification:** FWD 2 Thulium lasers and amplifiers