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The .rar file contains excel files of experimental data for the figures presented in a conference paper titled as "Self-mode-locked Bi-doped fiber laser operating at 1340nm"

In this paper we present a self-mode-locked Bismuth-doped fiber laser operating at 1340nm with a minimum pulse width of 1.5ns and repetition rate of 6.3MHz. An output power of 9mW and pulse energy of 1.43nJ was demonstrated.

In particular:

Fig. 1. (Inset) Output pulse train of ML-BDFL

The pulse train was measured at the ML-BDFL threshold using InGaAs photodetector (5GHz) and an oscilloscope (2.5GHz)

Fig. 1. (b). Variation of pulse width and energy with pump power for a ML-BDFL

Two laser diodes at 1270nm with a total pump power of 682mW was used to measure the variation of pulse width and energy with pump power

Fig. 1. (c) Optical spectrum at a pump power of 682mW for a BDF length of 25m

The optical spectrum of the ML-BDFL was measured by using an optical spectrum analyser at a pump power of 682mW.

Date of data collection: from March 2016 – December 2016

Information about geographic location of data collection: ORC, University of Southampton, U.K.

Date that the file was created: August 2017

Citation:

N. K. Thipparapu, C. Guo, A. A. Umnikov, P. Barua, A. Taranta, S. Alam, and J. K. Sahu, "Self-mode-locked Bismuth-doped Fiber Laser operating at 1340nm", CLEO/Europe 2017, Munich, 25-29 Jun 2017