

Stable soliton-like train pulses in an active fiber laser system

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Abstract

Stable soliton-like pattern formation in a compact erbium-doped all fiber laser system is reported. The windows where these bounded states can be achieved were founded varying the cavity losses actively with the help of an electro-optic modulator. The fiber laser worked with a slope efficiency of 24 percent and threshold of less than 16 mW allowing a maximum output power of 3.83 mW. This fiber laser system can be used to obtain non-distortion pulses for optical communication purposes.