



10 μ J dissipative soliton resonance square pulse in a dual amplifier figure-of-eight double-clad Er:Yb mode-locked fiber laser

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Résumé en anglais	We demonstrate experimentally a double-clad Er:Yb co-doped dual amplifier passive mode-locked figure-of-eight fiber laser that generates high energy, width, and amplitude tunable dissipative soliton resonance square pulses. In our laser system, each loop contains an amplifier that controls a characteristic of the output pulse. The amplitude and width of the output beam can be controlled continuously but, dependently, according to the pump power of each amplifier. The pulse width can be tuned in a range of almost 360 ns while the peak power varies from 8 to 120 W. On maximum possible pumping from both sides without having a pulse break, we report square pulses with 10 μ J energy per pulse with a signal-to-noise ratio of 60 dB.
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Liens

[1] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=15653>

[2] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39603>

[3] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39620>

[4] <http://okina.univ-angers.fr/m.salhi/publications>

- [5] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=9358>
- [6] <http://okina.univ-angers.fr/francois.sanchez/publications>
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