



Theoretical and experimental analysis of staircase pulses in passive mode-locked fiber lasers

Submitted by François Sanchez on Fri, 09/27/2019 - 14:50

Titre	Theoretical and experimental analysis of staircase pulses in passive mode-locked fiber lasers
Type de publication	Article de revue
Auteur	Semaan, Georges [1], Komarov, Andrey [2], Niang, Alioune [3], Meng, Yichang [4], Kemel, Meriem [5], Salhi, Mohamed [6], Sanchez, François [7]
Editeur	American Physical Society
Type	Article scientifique dans une revue à comité de lecture
Année	2018
Langue	Anglais
Date	September 2018
Numéro	3
Pagination	033819
Volume	98
Titre de la revue	Physical Review A
ISSN	2469-9926
Résumé en anglais	We report an experimental observation of staircase pulses generated from an Er:Yb co-doped fiber laser operating in the anomalous dispersion regime. The staircase pulses consist of two distinct square pulses associated with different wavelengths in a dual peak spectrum and they exhibit particular temporal characteristics. To establish a theory behind the experimental results, we simulate numerically the fiber oscillator by using a master equation and taking into consideration the gain inhomogeneities as well as other nonlinear variables.
URL de la notice	http://okina.univ-angers.fr/publications/ua20264 [8]
DOI	10.1103/PhysRevA.98.033819 [9]
Lien vers le document	https://journals.aps.org/pr/abstract/10.1103/PhysRevA.98.033819 [10]
Titre abrégé	Phys. Rev. A

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- [1] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=15653>
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- [3] <http://okina.univ-angers.fr/alniang/publications>
- [4] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=9350>
- [5] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39626>
- [6] <http://okina.univ-angers.fr/m.salhi/publications>
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[8] <http://okina.univ-angers.fr/publications/ua20264>

[9] <http://dx.doi.org/10.1103/PhysRevA.98.033819>

[10] <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.98.033819>

Publié sur *Okina* (<http://okina.univ-angers.fr>)