



Passive mode-locking of a 10 W double-clad fiber laser

Submitted by Emmanuel Lemoine on Wed, 10/29/2014 - 13:38

Titre	Passive mode-locking of a 10 W double-clad fiber laser
Type de publication	Communication
Type	Conférence invitée
Année	2012
Langue	Anglais
Date du colloque	2012
Titre du colloque	14th International Conference on Transparent Optical Networks (ICTON 2012)
Pagination	1-4
Auteur	Amrani, Foued [1], Niang, Alioune [2], Salhi, Mohamed [3], Komarov, Andrey [4], Leblond, Hervé [5], Sanchez, François [6]
Pays	Royaume-Uni
Ville	Coventry
Mots-clés	harmonic mode lock [7], passive mode locked laser [8], soliton [9], solitons crystal [10]
Résumé en anglais	We report experimental observation of bound states of soliton in passively mode-locked erbium-doped double-clad fiber laser. Operating in the anomalous dispersion regime with a double-clad fiber 10W amplifier allows generation of up to several thousands of solitons per round trip. By increasing the pumping power we pass from one bound state to several separated bound states. The bound states self-organize them leading to harmonic mode-locking of soliton crystals.
Notes	Date du colloque : 07/2012
URL de la notice	http://okina.univ-angers.fr/publications/ua5288 [11]

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=8557](http://okina.univ-angers.fr/publications?f[author]=8557)
- [2] <http://okina.univ-angers.fr/alniang/publications>
- [3] <http://okina.univ-angers.fr/m.salhi/publications>
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=8560](http://okina.univ-angers.fr/publications?f[author]=8560)
- [5] <http://okina.univ-angers.fr/herve.leblond/publications>
- [6] <http://okina.univ-angers.fr/francois.sanchez/publications>
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=10665](http://okina.univ-angers.fr/publications?f[keyword]=10665)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=10664](http://okina.univ-angers.fr/publications?f[keyword]=10664)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=9596](http://okina.univ-angers.fr/publications?f[keyword]=9596)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=10666](http://okina.univ-angers.fr/publications?f[keyword]=10666)
- [11] <http://okina.univ-angers.fr/publications/ua5288>

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