



Evidence of Brillouin scattering in an ytterbium-doped double-clad fiber laser

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Auteur	Salhi, Mohamed [1], Hideur, Ammar [2], Chartier, Thierry [3], Brunel, Marc [4], Martel, Gilles [5], Ozkul, Cafer [6], Sanchez, François [7]
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Résumé en anglais	We have designed and performed an experiment that permitted direct observation of Brillouin backscattering in an Yb-doped double-clad fiber laser. Fifteen Brillouin-shifted frequencies were observed for the first time to our knowledge. We clearly demonstrate that stimulated Brillouin scattering is directly responsible for both fast transient dynamics of the laser and reduction of the laser's pulse width.
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Liens

- [1] <http://okina.univ-angers.fr/m.salhi/publications>
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=9363](http://okina.univ-angers.fr/publications?f[author]=9363)
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