



# Robust Two-Dimensional Spatial Solitons in Liquid Carbon Disulfide

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Auteur	Falcao-Filho, Edilson L [1], de Araújo, Cid B [2], Boudebs, Georges [3], Leblond, Hervé [4], Skarka, Vladimir [5]
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Résumé en anglais	The excitation of near-infrared $\delta 2 \text{ p } 1\text{PD}$ solitons in liquid carbon disulfide is demonstrated due to the simultaneous contribution of the third- and fifth-order susceptibilities. Solitons propagating free from diffraction for more than 10 Rayleigh lengths although damped, were observed to support the proposed soliton behavior. Numerical calculations using a nonlinear Schrödinger-type equation were also performed.
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua5734">http://okina.univ-angers.fr/publications/ua5734</a> [6]
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Titre abrégé	Phys. Rev. Lett.

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## Liens

[1] [http://okina.univ-angers.fr/publications?f\[author\]=8729](http://okina.univ-angers.fr/publications?f[author]=8729)

[2] [http://okina.univ-angers.fr/publications?f\[author\]=8609](http://okina.univ-angers.fr/publications?f[author]=8609)

[3] <http://okina.univ-angers.fr/g.bou/publications>

[4] <http://okina.univ-angers.fr/herve.leblond/publications>

[5] <http://okina.univ-angers.fr/v.ska/publications>

[6] <http://okina.univ-angers.fr/publications/ua5734>

[7] <http://dx.doi.org/10.1103/PhysRevLett.110.013901>

[8] <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.110.013901>

