



Dynamics of optomechanical spatial solitons in dual-nanoweb structures

Claudio Conti, Anna Butsch, Fabio Biancalana, Philip St. John Russell

(Submitted on 7 Apr 2012)

We theoretically investigate the stability and dynamics of self-channelled beams that form via nonlocal optomechanical interactions in dual-nanoweb microstructured fibers. These "optomechanicons" represent a novel class of spatial soliton.

Subjects: **Optics (physics.optics)**

Cite as: [arXiv:1204.1682](#) [physics.optics]

(or [arXiv:1204.1682v1](#) [physics.optics] for this version)

Submission history

From: Anna Butsch [[view email](#)]

[v1] Sat, 7 Apr 2012 21:12:23 GMT (881kb)

[Which authors of this paper are endorsers?](#)

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

- [PDF only](#)

Current browse context:

physics.optics

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1204](#)

Change to browse by:

[physics](#)

References & Citations

- [NASA ADS](#)

Bookmark ([what is this?](#))

