All papers 🗕 Go!

Physics > Optics

## Wave localization at the boundary of disordered photonic lattices

A. Szameit, Y. V. Kartashov, P. Zeil, F. Dreisow, M. Heinrich, R. Keil, S. Nolte, A. Tunnermann, V. A. Vysloukh, L. Torner

(Submitted on 4 Mar 2010)

We report on the experimental observation of reduced light energy transport and disorder-induced localization close to a boundary of a truncated one-dimensional (1D) disordered photonic lattice. Our observations uncover that near the boundary a higher level of disorder is required to obtain similar localization than in the bulk.

Comments: 13 pages, 5 figures, to appear in Optics Letters

Subjects: Optics (physics.optics); Pattern Formation and Solitons (nlin.PS)

Cite as: arXiv:1003.1032v1 [physics.optics]

## **Submission history**

From: Yaroslav Kartashov [view email] [v1] Thu, 4 Mar 2010 12:47:01 GMT (1111kb)

Which authors of this paper are endorsers?

## Download:

PDF only

Current browse context: physics.optics

< prev | next >
new | recent | 1003

Change to browse by:

nlin nlin.PS physics

## References & Citations

CiteBase



Link back to: arXiv, form interface, contact.