

Accepted Manuscript

Enhanced diode-like operation mediated by an asymmetric non-Hermitian and nonlinear defect

A. Nunes, W.S. Dias, M.L. Lyra

PII: S0003-4916(17)30268-3
DOI: <https://doi.org/10.1016/j.aop.2017.09.007>
Reference: YAPHY 67492

To appear in: *Annals of Physics*

Received date: 29 August 2017
Accepted date: 17 September 2017

Please cite this article as: A. Nunes, W.S. Dias, M.L. Lyra, Enhanced diode-like operation mediated by an asymmetric non-Hermitian and nonlinear defect, *Annals of Physics* (2017), <https://doi.org/10.1016/j.aop.2017.09.007>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Transmission along a quantum channel with a defect is analytically studied.
The defect has non-Hermitian, nonlinear and non-symmetric characteristics.
The transmission spectrum exhibits multistability regions.
The non-conventional properties of the defect lead to a diode-like behavior.
Multistability is shown to promote an enhanced rectification of the transmitted signal

Download English Version:

<https://daneshyari.com/en/article/5495740>

Download Persian Version:

<https://daneshyari.com/article/5495740>

[Daneshyari.com](https://daneshyari.com)