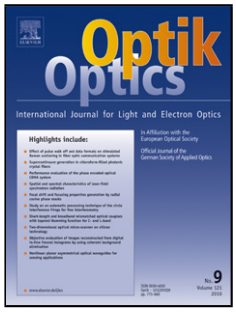
Accepted Manuscript



Title: Propagation of Airy beams in the quadratic-index medium based on matrix optics

Author: Hehe Li Jingge Wang Miaomiao Tang Jingxiao Cao Xinzhong Li

PII: S0030-4026(17)31095-1
DOI: http://dx.doi.org/doi:10.1016/j.ijleo.2017.09.033
Reference: IJLEO 59641

To appear in:

Received date: 22-5-2017
Accepted date: 8-9-2017

Please cite this article as: Hehe Li, Jingge Wang, Miaomiao Tang, Jingxiao Cao, Xinzhong Li, Propagation of Airy beams in the quadratic-index medium based on matrix optics, *<![CDATA[Optik - International Journal for Light and Electron Optics]]>* (2017), http://dx.doi.org/10.1016/j.ijleo.2017.09.033

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.

ACCEPTED MANUSCRIPT

1. We study the evolution of Airy beam in a quadratic-index medium.
2. There is a periodic beam profile change induced by the inhomogeneity of medium.
3. There is a periodic change of the beam from Airy profile to Gaussian profile.
4. The beam size of the Gaussian profile is different for the different decay factor.

Accepted Manuscript

Download English Version:

https://daneshyari.com/en/article/5025094

Download Persian Version:

https://daneshyari.com/article/5025094

Daneshyari.com