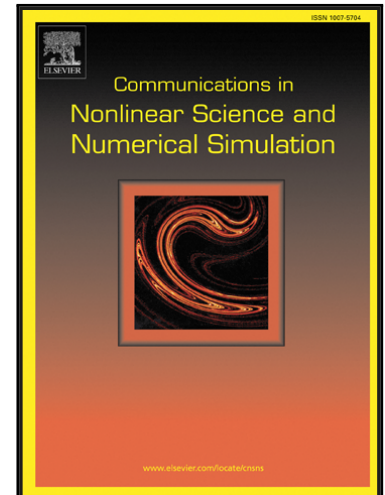


Accepted Manuscript

Spatiotemporal optical similaritons in dual-core waveguide with an external source

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PII: S1007-5704(16)30339-2
DOI: [10.1016/j.cnsns.2016.10.002](https://doi.org/10.1016/j.cnsns.2016.10.002)
Reference: CNSNS 3995



To appear in: *Communications in Nonlinear Science and Numerical Simulation*

Received date: 29 February 2016
Revised date: 16 May 2016
Accepted date: 4 October 2016

Please cite this article as: Thokala Soloman Raju, Spatiotemporal optical similaritons in dual-core waveguide with an external source, *Communications in Nonlinear Science and Numerical Simulation* (2016), doi: [10.1016/j.cnsns.2016.10.002](https://doi.org/10.1016/j.cnsns.2016.10.002)

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Highlights

- We analytically and numerically discover asymptotic self-similar light bullets in asymmetric dual-core waveguide (DWG) with an external source
- We demonstrate the control mechanism for the passive wave by controlling the propagation of active wave in this DWG due to linear coupling between the two waveguides
- We explicate the mechanism to control the dynamical behaviors of the self-similar waves for two specific cases.

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