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No. de Ref.: 5017
Sección: Investigación

Dr. Miguel Torres-Cisneros
Grupo de NanoBioFotónica
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Apreciable Colega:

El día 28.10.15 recibimos su artículo titulado:
"*Solitons propagation in heterogeneous periodic media by tandem arrangement of nonlinear materials*",
de los autores J.J. Sánchez-Mondragón, M. Torres-Cisneros,
A. Alejo-Molina, R. Guzmán-Cabrera, H. Pascencia-Mora,
D. May-Arriola y F.R. Arteaga-Sierra,
el cual ha sido registrado con el número arriba indicado.

Agradecemos el envío de este trabajo para posible publicación en nuestra revista.
El resultado del arbitraje le será comunicado oportunamente.

Le saluda cordialmente,

Dr. Francisco Ramos Gómez
Director de la RMF.

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REFeree's COMMENTS

Reg. No.: 5017

Section: Research

Title: "Solitons propagation in heterogeneous periodic media by tandem arrangement of nonlinear materials"

COMMENTS

The manuscript titled "Solitons Propagation in Heterogeneous Periodic Media by Tandem Arrangement of Nonlinear Materials" by Sánchez-Mondragón et al. focus on the nonlinear dynamics and show that optical solitons, both temporal and spatial, when propagating through a periodically stratified nonlinear medium reshape into a nonlinear modulation. The results might be interesting as it give another way of soliton Propagation. I would like to suggest the acceptance of work provided that authors can well consider the following suggestions.

- 1) Authors analyzed the "temporal and spatial propagation of Optical solitons" in the manuscript. However, this reviewer did not see the balance of optical dispersion and kerr nonlinearity in the analysis. Could you please comment on this point?
- 2) Whether authors can investigate the case of the propagation of spatiotemporal soliton in Heterogeneous Periodic Media?
- 3) At last but not least, optical materials with unique and strong Kerr nonlinearity might be interesting for the soliton propagation dynamics. There is another atomically thin material, graphene, with very high nonlinear refraction index, See Optics letters 37, 1856 for example. It would be fundamentally interesting to know whether this new material can allow for the Solitons Propagation in Heterogeneous Periodic Media? And if yes, there might be important advancements. So authors are suggested to have a brief discussion in the final part.
- 4) Some misspelling words such as, "through a nonlinear" authors should revise similar errors in the manuscript.
- 5) In the introduction part, some earlier work on temporal soliton in fiber optics were not cited, such as, Physical Review Letters 101, 153904.

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You suggest :

- c) To **accept** the manuscript after it is corrected (the **referee considers** necessary to review the corrected version).

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