



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_50641
Title of the Manuscript:	Higher-order Spectral Filtering Effects on the Evolution of Stationary Dissipative Solitons
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments		
Minor REVISION comments	<p>Please remove the personal pronoun WE from the text. The authors should modify the sentences containing it. For instance, in the conclusions:</p> <p>The effects of higher-order spectral filter term on the stationary dissipative soliton were investigated. The dynamical behavior of stationary soliton in the two-dimensional Complex Swift-Hohenberg equation under the spectral filtering was carried out. The domains of coexistence of stationary soliton are obtained through the semi-analytical method, i.e., the collective variable approach. It appears in this study that the spectral filtering plays an important role in the formation of the stable stationary soliton. Therefore, the dissipative stationary solutions tend to vanish gradually when increase. The detailed analysis points out that the spectral filtering also has a significant impact on the temporal width of the stationary profile while it does not really affect the amplitude and the spatial width. In addition, the parameter influences differently the cubic and quintic terms of the 2D CSHE. Thus, when designing lasers, attention should be paid to the cubic and quintic parameters because they act differently on the spectral filtering.</p> <p>To conclude, in this paper using a semi-analytical approach with a suitable trial function, the influence of the spectral filtering on stationary soliton parameters have been demonstrated. It is hoped that these results can be extended to describe the pulsed operation in laser cavity and can be utilized to understand and engineer the pulse dynamics in mode-locked soliton fiber lasers.</p>	
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	J. Dario Aristizabal-Ochoa
Department, University & Country	Universidad Nacional De Colombia at Medellin, Colombia