



## SDI Review Form 1.6

### **PART 1:**

Journal Name:	<a href="#">Physical Review &amp; Research International</a>
Manuscript Number:	<b>MS: 2012/PRRI/2209</b>
Title of the Manuscript:	<b>New (G'/G)-expansion method and its applications to nonlinear PDE</b>

**General guideline for Peer Review process:** *(Note: Title of different sections as proposed below may differ in case of review paper / case reports)*

- *Is the problem/objective of this study original and important? SCIENCEDOMAIN international strongly opposes the practice of duplicate publication or any type of plagiarism. However, studies which are carried out to reconfirm / replicate the results of any previously published paper with new dataset, may be considered for publication. But these types of studies should have a 'clear declaration' of this matter. If you suspect any unethical practice in this manuscript, kindly write it in the report with some proof/links.*
- *Materials & methods (Kindly comment on the suitability and technical standards of the methods. Sufficient details of the methods/process should be provided so that another researcher is able to reproduce the experiments described)*
- *Results & discussion (Kindly comment on: 1. Are the data well controlled and robust? 2. Authors should provide relevant and current references during discussion. 3. Discussion and conclusions should be based on actual facts and figures. Biased claims should be pointed out. 4. Are statistical analyses must for this paper? If yes, have sufficient and appropriate statistical analyses been carried out?)*
- *Conclusion (Is the conclusion supported by the data, discussed inside the manuscript? Conclusions should not be biased and should be based on the data, presented inside the manuscript only. Authors should provide adequate proof for their claims without overselling them)*
- *Are all the references cited relevant, adequate? Are there any other suitable current references authors need to cite?*
- *SDI believes in constructive criticism. Reviewers are encouraged to be honest but not offensive in their language. It is expected that the reviewer should suggest the authors on how they can strengthen their paper to make it acceptable. Comments of the reviewers should be sufficiently informative and helpful to reach a Editorial Decision. We strongly advise that a negative review should also explain the weaknesses of any manuscript, so that the concerned authors can understand the basis of rejection and he/she can improve the manuscript based on those comments. Authors also should not confuse straightforward and true comments with unfair criticism.*
- *We are very much reluctant to go against suggestions (particularly on technical areas) of the reviewers. Therefore, authors are requested to treat the suggestions of reviewers with utmost importance.*
- *This form has total 9 parts. Kindly note that you should use all the parts of this review form.*



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### **PART 2:** 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)
<b><u>Compulsory</u></b> REVISION comments		<b>I have added some references.</b>
<b><u>Minor</u></b> REVISION comments		
<b><u>Optional/General</u></b> comments		



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I have read the manuscript in a fairly detailed fashion. This manuscript is fairly well written. In this manuscript, the authors have solved the Zakharov-Kuznetsov Benjamin-Bona-Mahoney (ZK-BBM) equation. The integration tool that the authors applied is the  $G'/G$ -expansion method. The authors explained the tool of integration in a very professional manner. Subsequently, the authors applied this mathematical tool to carry out the integration of the ZK-BBM equation. Using this integration technique the authors retrieved several solutions to the equation. The results are nice and new and the paper definitely carries novelty. This paper definitely is publishable. However, I have some reservations about the reference list that is far from complete. Therefore, I strongly suggest that the authors cite the following few papers so that the citation list is close to being complete.

- [1] A. Biswas, A. Yildirim, T. Hayat, O. M. Aldossary & R. Sassaman. "Soliton perturbation theory of the generalized Klein-Gordon equation with full nonlinearity". *Proceedings of the Romanian Academy, Series A*. Volume 13, Number 1, 32-41. (2012).
- [2] H. Triki, A. Yildirim, T. Hayat, O. M. Aldossary & A. Biswas. "Topological and non-topological soliton solutions of the Bretherton equation". *Proceedings of the Romanian Academy, Series A*. Volume 13, Number 2, 103-108. (2012).
- [3] G. Ebadi, A. H. Kara, M. D. Petkovic, A. Yildirim & A. Biswas. Solitons and conserved quantities of the Ito equation. "*Proceedings of the Romanian Academy, Series A*". Volume 13, Number 3, 215-224. (2012).
- [4] A. G. Johnpillai, A. Yildirim & A. Biswas. "Chiral solitons with Bohm potential by Lie group analysis and traveling wave hypothesis". *Romanian Journal of Physics*. Volume 57, Numbers 3-4, 545-554. (2012).



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- [5] H. Triki, S. Crutcher, A. Yildirim, T. Hayat, O. M. Aldossary & A. Biswas. “Bright and dark solitons of the modified complex Ginzburg Landau equation with parabolic and dual-power law nonlinearity”. *Romanian Reports in Physics*. Volume 64, Number 2, 357-366. (2012).
- [6] S. Crutcher, A. Oseo, A. Yildirim & A. Biswas. “Oscillatory parabolic law spatial optical solitons”. *Journal of Optoelectronics and Advanced Materials*. Volume 14, Numbers 1-2, 29-40. (2012).
- [7] A. Biswas, K. Khan, A. Rahaman, A. Yildirim, T. Hayat & O. M. Aldossary. “Bright and dark optical solitons ion birefringent fibers with Hamiltonian perturbations and Kerr law nonlinearity”. *Journal of Optoelectronics and Advanced Materials*. Volume 14, Numbers 7-8, 571-576. (2012).

After making these minor changes, this manuscript can proceed for publication.