

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Mathematics and Computer Science</a>
Manuscript Number:	Ms_JAMCS_128494
Title of the Manuscript:	A Duality Principle and Concerning Convex Dual Formulation for a Model in Micro-Magnetism
Type of the Article	

#### General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### Important Policies Regarding Peer Review

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#### PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	The manuscript introduces a duality principle that extends to originally non-convex variational formulations. This innovation enriches the mathematical theory of duality, particularly in the context of micro-magnetism. The results are not confined to micro-magnetism but have implications for a broad class of models, such as those in elasticity, superconductivity, and phase transitions. This universality enhances its scientific relevance.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>Some how. Suggested title</b> <b>A Duality Principle and Convex Dual Formulation for Non-Convex Variational Models in Micro-Magnetism</b>	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	<b>The abstract of the article, "A Duality Principle and Concerning Convex Dual Formulation for a Model in Micro-Magnetism," is informative but could be improved for greater comprehensiveness and clarity. Here's an evaluation of its improvement:</b>  <ol style="list-style-type: none"> <li><b>Include a brief mention of the primal variational formulation and the main results of the dual formulation.</b></li> <li><b>Briefly state how the findings could be applied to real-world models in micro-magnetism or related fields.</b></li> <li><b>Emphasize how this work advances the field or addresses specific longstanding challenges in non-convex variational problems.</b></li> <li><b>Clearly differentiate this work from previous research by mentioning unique aspects of the duality principle developed.</b></li> </ol>	
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript appears scientifically correct based on its adherence to established mathematical principles, logical structure, and referencing of relevant literature. However: Adding numerical examples, discussing limitations, and providing more explicit validation of assumptions could reinforce the scientific accuracy. In summary, the manuscript demonstrates scientific rigor and correctness in its theoretical framework but would benefit from additional validation and discussion to ensure robustness and broad applicability.	

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<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	The references are relevant and foundational, but they lean heavily on older works. The inclusion of more recent studies and broader application-focused citations would make the bibliography more comprehensive and up-to-date. While the current references support the manuscript's claims, enhancing them would improve the manuscript's scientific depth and contextual alignment with modern research trends.	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language quality is adequate for scholarly communication, but it would benefit from revisions to improve readability, sentence structure, and clarity. With minor edits and adjustments, the manuscript will meet the expectations of academic writing standards for high-impact journals.	
<b>Optional/General</b> comments		

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### **Reviewer Details:**

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