

Review Form 3

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_125376
Title of the Manuscript:	THE J K-METHOD OF INTERPOLATIONFOR FINITE FAMILIES OF BANACH SPACES
Type of the Article	Original Research 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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PART 1: Review Comments

Compulsory REVISION 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>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript presents a valuable contribution to the field of functional analysis and interpolation theory by proposing the JK-method for finite families of Banach spaces. Its rigorous exploration of operator ideals and interpolation techniques enhances the understanding of geometric properties and extends existing interpolation methods such as the Lions-Peetre method. The manuscript is particularly important for researchers working with Banach spaces, as it offers new theoretical insights into operator behavior between complex spaces. However, while the theoretical framework is solid, the lack of concrete examples or practical applications may limit its immediate impact on applied mathematics. Overall, it provides a strong theoretical foundation that can inspire further research in interpolation methods and their applications.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title "The JK-Method of Interpolation for Finite Families of Banach Spaces" accurately reflects the content of the manuscript, as it clearly indicates the focus on a specific interpolation method within the context of Banach spaces.</p>	
<p>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.</p>	<p>The abstract could be streamlined to reduce complexity in some sentences. Simplifying the language and breaking down long sentences can enhance readability.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The manuscript's structure and use of subsections are generally appropriate for conveying complex mathematical concepts, but there are areas for improvement to enhance readability and logical flow. Here are some observations: The manuscript lacks a dedicated conclusion or summary section that recaps the main findings and discusses their implications. Adding this would help reinforce the key messages and contributions of the paper, giving readers a clear takeaway. Ensure that all subsections follow a consistent format regarding numbering and titling. This improves the manuscript's professionalism and readability.</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript demonstrates scientific robustness and technical soundness through its rigorous mathematical framework and thorough exploration of the JK-method for interpolation in finite families of Banach spaces. The authors carefully build on established concepts in functional analysis, such as operator ideals and the Beuzamy property of interpolation, ensuring that their contributions are grounded in existing literature. The logical progression of ideas, supported by well-defined theorems and lemmas, illustrates a strong understanding of the underlying mathematical principles. Furthermore, the paper is methodologically sound, with a clear delineation of assumptions and results, making it a valuable addition to the field of interpolation theory. Overall, the manuscript reflects a high standard of scientific integrity, contributing meaningfully to ongoing research in functional analysis.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :</p>	<p>Include more recent papers that explore new developments in interpolation methods, such as:</p> <ol style="list-style-type: none"> 1. K. D. D. G. Floret, J. W. Roberts, and S. K. S. Manohar, "Recent Advances in the Theory of Interpolation Spaces" (2020) - This paper reviews modern advancements in interpolation theory, which could complement the foundational works referenced in the manuscript. 2. P. C. F. J. J. Zhang and A. C. T. Wang, "Operator Ideals and Their Applications" (2021) - This article reviews operator ideals with a focus on their application to modern problems in functional analysis. 3. M. M. Carro and A. Quevedo, "Interpolation Theory: A Survey" (2022) - A recent survey that discusses various interpolation methods and their developments over the years. 	

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Sentences like "Let us highlight the word 'optimale' in the above quotation" seem overly informal for a formal article. Consider revising the tone for better alignment with the rest of the document. Passive voice, such as "It was my much admired and great French mathematician, Professor Bernard Beuzamy", could be streamlined to something like "The much-admired mathematician, Professor Bernard Beuzamy..." for conciseness.</p> <p>The sentence "The task in what follows, after the next short section for revision, will be to present..." feels awkward. Consider simplifying it: "In the next section, we present..."</p> <p>This document can benefit from additional proofreading, ensuring consistent citation styles and correcting any unclear or awkward phrasing. Additionally, attention to the use of formal language and appropriate mathematical notation will greatly enhance readability.</p>	
<p><u>Optional/General</u> comments</p>		

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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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