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| Book Name: | **Physical Science: New Insights and Developments** |
| Manuscript Number: | **Ms\_BPR\_6158** |
| Title of the Manuscript: | **Analytic approximation for the modified Bessel function I−2/3(x)** |
| Type of the Article | **Book Chapter** |

PART 1: Comments

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|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **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.** | * **The article describes an analytical approximation of the Bessel function**
* **The article makes a brief error analysis of the analytical function with the Bessel function.**
* **The article provides a way to analyze the Bessel function**
 |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | - **yes** |  |
| **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.** | - **yes** |  |
| **Is the manuscript scientifically, correct? Please write here.** | - **I think so** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **- It would be interesting to have more current articles on the topic** |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | - there are small mistakes in the English writing |  |
| **Optional/General** comments | * Further analysis of the analytical function with the Bessel function is needed to achieve greater reliability in the article.
* It is necessary to define the variables of the equations
* Figures 1 and 2 need to be explained
* it is necessary to clearly show the boundary conditions and the initial conditions
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| **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?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Andre Felippe Vieira da Cunha, Brazil**