

## Review Form 1.7

|                          |  |
|--------------------------|--|
| Journal Name:            | <b>Journal of Advances in Mathematics and Computer Science</b> |
| Manuscript Number:       | <b>Ms_JAMCS_98351</b>  |
| Title of the Manuscript: | <b>On Representations of the Lorentz Group</b>                 |
| 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:

(<https://www.journaljamcs.com/index.php/JAMCS/editorial-policy> )

**Review Form 1.7**

**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) |
|--|--|---|
| <p><b>Compulsory REVISION comments</b></p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b><br/>(Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b><br/>(If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p> | <p style="text-align: center;"><b>REFEREE'S COMMENTS</b></p> <p>Enclosed is the Referee's report on the paper entitled:<br/><b>"On Representations of the Lorentz Group"</b></p> <p>Dear Respected Editor,<br/>I have read this paper carefully. The problem is interesting and generally the paper is well written in English except for several grammatical corrections. The abstract and introduction misses some necessary ingredients. The paper suffers from some minor weaknesses and I have suggested several important suggestions. Please, you can kindly find them below:</p> <p>Abstract and introduction parts need to be extended morely.</p> <p>AMS Classifications ( at least three) have to be added to the paper.</p> <p>It is better to write some parts as scientific papers models such as definitions, theorems, lemmas and their proof .</p> <p>The author has to summary all references briefly in the introduction section after adding some new references which are mentioned as follows.</p> <p>References section is very weak. The author has to add some new recently published papers/ documents to the references section of the paper. Also, some useful papers should be added as follows:</p> <p>[1] Özen ÖZER, 2022, <b>Book Name:</b> Coding Theory Recent Advances, New Perspectives and Applications,(7 Chapters) Edited by Sudhakar Radhakrishnan and Sudev Naduvath, Print ISBN 978-1-83969-409-7, Online ISBN 978-1-83969-410-3, eBook (PDF) ISBN 978-1-83969-411-0 , <b>CHAPTER 2:</b> Algebraic Approximations to Partial Group Structures by Özen Özer, 15-32, INTECHOPEN PUBLISHER,U.S.A.</p> <p>[2] R. Michael Howe, An Invitation to Representation Theory Polynomial Representations of the Symmetric Group, Springer, 2022.</p> <p>[3] Carlos Frasser, Özen Özer, 2020, First order ordinary differential equations and applications, Lambert Academic Publishing.</p> <p>[4] Moshe Carmeli, 2005, Group Theory and General Relativity: Representations of the Lorentz Group and Their Applications to the Gravitational Field, Imperial College Press,</p> <p>[5] Esko Keski-Vakkuri, Claus Montonen, Marco Panero, 2022, Mathematical Methods for Physics An Introduction to Group Theory, Topology and Geometry. Cambridge Press Publishing.</p> <ol style="list-style-type: none"> <li>6) Advantage and effection of the paper should be explained with details( which results are generalized or improved in this work? Please explain) in the conclusion section.</li> <li>7) Grammatical errors and some mathematical mistypes have been in the paper and all</li> </ol> |   |

## Review Form 1.7

|  |   |  |
|--|---|--|
|  | should be removed.<br><br>Finally and briefly, when author revised according to these suggestions, I recommend that the paper can be published/ accepted for the conference.<br>A revision is needed...with many thanks and best regards, |  |
| <b>Minor</b> REVISION comments<br><br>1. Is language/English quality of the article suitable for scholarly communications? | the above-mentioned points should be taken into consideration   |  |
| <b>Optional/General</b> comments   | the above-mentioned points should be taken into consideration   |  |

## **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) |
|--|---|--|
| Are there ethical issues in this manuscript? | (If yes, Kindly please write down the ethical issues here in details)<br>NO |  |

## Reviewer Details:

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Name:                            | <b>Özen Özer</b>                     |
| Department, University & Country | <b>Kirklareli University, Turkey</b> |