



**SDI Review Form 1.6**

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|--------------------------|---|
| Journal Name:            | <a href="#">Physical Science International Journal</a>                  |
| Manuscript Number:       | Ms_PSIJ_48386   |
| Title of the Manuscript: | A First Approach to Loop Quantum Gravity in the Momentum Representation |
| Type of the Article      | Technical 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

**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) |
|-------------------------------------|--|---|
| <b>Compulsory</b> REVISION comments | <p><b>Abstract: What is the bottom line for this activity? What is the advantage of this approach? Such comments should be: based on the canonical quantization of General Relativity, can be formulated in the configuration or in the momentum representation. We think that this conclusion gives further support for the validity of Loop Quantum Gravity... And: this conclusion opens a new line of research in LQG. This new line of research is already well defined.</b></p> <p><b>Introduction: This looks familiar with thinking along Terence Barret's SU2 theory where none-commutating operations alter the Maxwell equations.</b></p> <p><b>From my perspective, not being a physicist, I do not see directly where gravity is affected. This would be worthwhile to do this other than using p and q but rather Einstein's field equation terms.</b></p> |   |
| <b>Minor</b> REVISION comments      |  |   |
| <b>Optional/General</b>             |  |   |

**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:**

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|----------------------------------|--|
| Name:                            | <b>P. A. Murad</b>                           |
| Department, University & Country | <b>Morningstar Applied Physics Inc., USA</b> |