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Book Name:	Current Research Progress in Physical Science
Manuscript Number:	Ms_BPR_2925
Title of the Manuscript:	QUANTUM MECHANICS AS A THEORY BASED ON THE GENERAL THEORY OF RELATIVITY
Type of the Article	Book chapter

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>
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.	This manuscript is important to the scientific community as it bridges a significant gap between quantum mechanics and the general theory of relativity, two foundational pillars of modern physics that have yet to be fully reconciled. By modeling quantum particles as distributions of matter, the work addresses critical issues in conventional quantum mechanics, such as wave-particle duality and the treatment of quantum interference. I appreciate the manuscript's robust mathematical framework and the novel insights it provides into the behavior of quantum particles in relativistic contexts. Additionally, the derivation of key equations, like the Maxwell-Lorentz equations, from first principles within this unified framework highlights the technical depth and potential implications for future research in quantum gravity	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title of the article, "Quantum Mechanics as a Theory Based on the General Theory of Relativity," is suitable. It clearly reflects the content and scope of the manuscript, which focuses on developing quantum mechanics within the framework of general relativity. The title effectively conveys the novel approach taken by the author in integrating these two fundamental theories. There is no need for an alternative title.	
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.	The abstract of the article is generally comprehensive, covering the key themes and objectives of the manuscript. However, it could benefit from a clearer presentation of the main results and their significance. I suggest explicitly mentioning the derivation of important equations, such as the Maxwell-Lorentz equations, and how this framework addresses existing problems in conventional quantum mechanics, like wave-particle duality. Additionally, highlighting potential applications or future research directions related to quantum gravity or quantum field theory would make the abstract more impactful and engaging for readers. No points need to be deleted, but refining the abstract with these suggestions would enhance its clarity and relevance.	
Are subsections and structure of the manuscript appropriate?	Yes, the subsections and structure of the manuscript are appropriate. The content is organized logically, progressing from fundamental concepts to more complex derivations and applications. Each subsection focuses on a specific aspect of the theory, making the material more accessible and easier to follow. The separation of key topics, such as quantum dynamics, conservation laws, and particle-field interactions, helps maintain clarity and ensures that readers can engage with the manuscript at various levels of complexity. No major changes to the structure are necessary.	
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.	This manuscript stands out for its scientific correctness, as it meticulously builds a theoretical framework that integrates quantum mechanics with general relativity. The mathematical formulations are clear, methodical, and adhere closely to well-established physical principles, ensuring the theory's internal consistency. By modeling quantum particles as matter distributions rather than point-like entities, the authors address long-standing issues in	

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	quantum mechanics, such as wave-particle duality and the interference phenomenon. The manuscript also impresses in its derivation of key equations, such as the Maxwell-Lorentz equations, which are obtained directly from first principles. This demonstrates not only the technical depth of the work but also its relevance to advancing our understanding of quantum mechanics in a relativistic context. Overall, the paper is scientifically rigorous and offers meaningful contributions to theoretical physics.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =	The references provided in the manuscript are sufficient and cover a wide range of relevant and foundational works in both quantum mechanics and general relativity. However, the inclusion of more recent studies, particularly those related to quantum gravity and experimental approaches to quantum field theory, would strengthen the manuscript further. These recent developments could help contextualize the presented work within current research trends and show its relevance to ongoing debates in the scientific community. A few more recent references from the last 3-5 years would enhance the manuscript's literature review and provide a broader context for the theory discussed.	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language and English quality of the article are generally suitable for scholarly communication. The manuscript is mostly clear and precise, with well-constructed sentences that convey complex ideas effectively. However, there are a few areas where the sentence structure could be simplified for better readability, and occasional grammatical errors should be addressed. A careful review of the text for clarity, conciseness, and grammar will help improve the overall flow and make the manuscript more accessible to a wider audience. Overall, the language is appropriate, but minor revisions could enhance its scholarly tone.	
Optional/General comments	Overall, this chapter provides a significant contribution to the field by exploring quantum mechanics within the framework of general relativity. The approach is novel, and the thorough mathematical treatment adds depth to the theoretical framework. However, while the core ideas are well-presented, the manuscript would benefit from additional discussion on potential applications or broader implications of the work in areas like quantum gravity or quantum field theory. Additionally, a more explicit connection to recent developments in these fields could further enhance the manuscript's relevance. Despite these minor suggestions, the manuscript is well-researched and presents a valuable perspective that could lead to further research opportunities in fundamental physics. The manuscript is scientifically robust, technically sound, and provides a novel approach to integrating quantum mechanics with general relativity. However, minor revisions in language clarity, as well as the addition of a few recent references, are suggested. These improvements would further enhance the manuscript's quality without requiring major structural changes. No, there are no ethical issues identified in this manuscript. The content appears to be original, and there are no indications of misuse of data. The manuscript adheres to standard academic practices in terms of citations and attributions.	

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

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Reviewer Details:

Name:	Izzet Sakalli
Department, University & Country	Eastern Mediterranean University, Turkey