Review of: "A Complete Quantum Mechanics"

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The paper titled “A Complete Quantum Mechanics” presents a unified perspective on quantum mechanics, arguing that existing formulations are incomplete due to their exclusion of the absorption process in matrix mechanics, focusing solely on emission in wave mechanics. The author posits that a comprehensive representation of quantum processes necessitates the integration of both matrix and wave mechanics. Additionally, the work draws on Einstein’s unfinished theory involving two coordinate systems, K and K’, to distinguish between absorption and emission events.

While the paper introduces a thought-provoking conceptual framework, it lacks the detailed mathematical explanations crucial for a discussion on quantum mechanics. Including explicit equations would bolster the argument by clearly illustrating how absorption and emission can be integrated into the current quantum formalism.

Although historical context is valuable, the paper occasionally leans too heavily on it, failing to build a strong, independent case for the proposed model. For instance, while it emphasizes Einstein’s unfinished quantum theory, it does not adequately address how contemporary advancements might support or challenge this approach.

Moreover, the reference list is relatively limited for a paper addressing such a broad and ambitious topic. While it cites important historical works, it overlooks recent papers and developments in quantum mechanics. I would recommend that the author incorporate more contemporary references in this field.

In summary, the paper presents an intriguing hypothesis regarding the incompleteness of quantum mechanics and the necessity of integrating matrix and wave mechanics. The ideas are compelling but would benefit from further elaboration and mathematical support.