

Review of: "A Phenomenological Approach to Quantum Mechanics"

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Potential competing interests: No potential competing interests to declare.

Review of A Phenomenological Approach to Quantum Mechanics

This well-written, referenced, and argued paper takes the likely misunderstandings of quantum mechanics and proposes a new "underlying field of aware potentiality". Key to such a proposal would be to identify specific effects that could be, or are, measured or formalized in a way that clearly supports the proposal. This is not offered.

Of course, when something is not understood, many approaches are available: magic, religion, philosophy, as well as unacceptable mathematical leaps, appear. Only in hindsight will the correct approach be seen, except for one or two more farsighted individuals. The history of science has many "misunderstandings" that are later, sometimes much later, resolved not with a paradigm shift in the previous views but with a modification or enhancement of the previous view. Changes such as heliocentrism, the wave equation, relativity, have been termed paradigm shifts, but they all were verified with measured and formalized effects. An alternative proposed resolution of these quantum mechanical misunderstandings is at <https://www.qeios.com/read/AOXT5.4>

This reviewer would find an approach that describes a modification or enhancement of existing theory, with measurable or formal examples, to be more palatable. The author is lauded for their direction, but not their solution.