

## Peer Review

# Review of: "A Single Hidden Variable Interpretation of the Quantum Wave Function"

Sirui Ning<sup>1</sup>

1. University of California, Berkeley, United States

## Overview

The paper offers a “single hidden-variable” interpretation of quantum mechanics: at any moment, one definite value exists inside the system while outside observers still see a full wave-function. The author claims this picture dissolves the measurement problem, explains delayed-choice quantum-eraser results, and avoids causal paradoxes.

## Strengths

The narrative is clear and ambitious, separating “inside” and “outside” viewpoints in an accessible, non-technical style. By treating each entanglement as a micro-measurement, the proposal gives an intuitive handle on subjective versus objective uncertainty and highlights how non-local correlations might emerge without retro-causality.

## Main concerns

The manuscript is almost entirely qualitative: it lacks a minimal mathematical model defining the hidden variable, its dynamics, and how it reproduces standard post-measurement states. Assertions about compatibility with Bell-type theorems are not demonstrated; the author must state which assumption (locality, outcome-determinism, or non-contextuality) is relaxed. No concrete experiment is provided that could distinguish this interpretation from Copenhagen or QBism.

## Declarations

**Potential competing interests:** No potential competing interests to declare.