Review of: "The new partitional approach to (literally) interpreting quantum mechanics"

Jian Li[1]

1 Shanghai Institute of Technology

Potential competing interests: No potential competing interests to declare.

I thank there are many other aspects of QM math that could be investigated, this thesis study the QM in the Hilbert space version of the math is meaningful and accompanied by originality and novelty.

To demonstrate the thesis that the math od QM is the Hilbert space version of the math of partitions, they focus on the three main concepts in the math: The quantum state, The quantum observable, The quantum measurement.

(1) They have seen how the notion of a quantum state was prefigured at the set level by a partition on the set with point probabilities.

(2) In order to analyze the quantum measurement, they proposed a Theorem about: the set version of quantum level projective measurement in the math of QM is the partition join operation.

(3) they find that a Hermitian operator is the QM math version of a real- valued numerical attribute and that the direct-sum decomposition of the operator's eigenspaces is the QM math version of the inverse-image partition of the numerical attribute.