

Review of: "Holographic Quantum Theory of Consciousness"

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Potential competing interests: No potential competing interests to declare.

The work presents an original vision of consciousness and, above all, its link with physical laws and the processes of measurement and observation.

The authors use a variety of references of a good level to support their arguments. They show that they know the concepts they use in depth. Surely it must have been difficult to condense so many concepts so important for science into a few pages.

When they speak of dual consciousness, it may be unquestionable in Chinese philosophy, but it should be justified a little more, given that it is one of the pillars of the reasoning employed by the authors a posteriori.

With respect to the statement in the introduction: "We propose to demonstrate mathematically how observed physical laws and phenomena emerge from human consciousness through the following four-step process," it should be noted that no rigorous mathematical demonstration was included in the work.

When they state that physical changes occur in space and time, it is a questionable point in the discussions of physics since at least 20 years ago, when the existence of time itself started to be questioned and it was stated that the dynamics of all the systems of the universe is given by the evolution of entropy.

The statements or reasoning are adequately made, with a lack of rigour from the physical and mathematical point of view, since, for example, they do not explain the conditions of existence of the expressions used in the construction of A1 in the introduction.

In section 3, where they make a series of predictions of the holographic theory of consciousness, each one of the predictions deserves at least a paper for its full and due development, given the depth and relevance of what the authors propose.

In the paragraph referring to the invariance of space and time, it would be good to analyse what happens with the short-range and long-range interactions and the corresponding linkage with self-organised systems.

In summary, the work proposes a very interesting line of research in several fields of contemporary science. It should be supported by a more extensive mathematical and epistemological formalism that would allow understanding the scope and possible weaknesses of the authors' proposal. In a certain way, given the complexity of the holographic quantum theory, it would be important to explore simpler and not so generalist concepts, which are not as comprehensive as the

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one proposed in the work, in order to ensure a safe advance, especially when there is a multitude of scientific concepts that are used at the same time and that generate some doubts in the assumptions that are used.

The work is a pleasant and clear reading, and with more elaboration, it could be of wide diffusion and analysis in the scientific community.