

# Review of: "Holographic Quantum Theory of Consciousness"

Richard Sieb

Potential competing interests: No potential competing interests to declare.

To say that the basic constituents of human consciousness are based on two types of duality derived from ancient Chinese philosophy is a bit of a stretch. The duality change-unchange was related to space and time. As shown in special relativity, space and time are not a duality, but are unified as spacetime. Space and time also change depending on the relative velocity of the observer. It might be better to say that space and time (in the form of spacetime intervals) are the fundamental components of human consciousness, as shown in special relativity. In essence, special relativity is a full mathematical description of human conscious experience. This might be expected as Einstein derived special relativity from the analysis of his own conscious experience. The role of the duality inclusion-exclusion was not made clear. The derivation of the Lagrangian (action) was unclear and could not be correct because of the mixture of quantum elements and classical elements. The authors might also define what they mean by the holographic action. To me, a hologram is a recording of information and its reconstruction at a later time. How the information could be recorded in the brain and then reconstructed in the form of conscious experience would then have to be explained. There are also many assumptions and speculations that are unproven and controversial. The above places many of the conclusions reached in jeopardy.