

Review of: "Holographic Quantum Theory of Consciousness"

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Potential competing interests: No potential competing interests to declare.

The initial suggestion is that two duals are the elements of consciousness. This implies that consciousness arises from two quantities that work in opposition to each other to produce consciousness. If two dual quantities work in opposition to each other, wouldn't one have neutrality or zero, like the matter-antimatter idea? Space and time are not a dual. They do not work in opposition to one another. Instead, they are unified as a continuum called spacetime (special relativity).

Space and time are relative when considered by themselves (that is, they are different for different observers travelling at different velocities). Taken together (unified), they form a truly invariant quantity (it is the same for all observers) called a spacetime interval (special relativity). Einstein stated in his introduction to special relativity that the invariant spacetime interval (line interval) appears to be a fundamental element of reality and is involved in the creation of all observed physical phenomena (conscious experiences). If you observe your conscious experience, you can see this. Many objects are experienced at the same time, but in different spatial positions (space-like spacetime interval separations). Other objects are experienced at the same spatial positions, but at different times (time-like spacetime interval separations).

Objects are identified using vision (light-like or electromagnetic spacetime interval separations). All empirical evidence indicates that consciousness arises from the processing of these fundamental 3 basic types of invariant spacetime intervals. Mathematically, this is defined by the Minkowski metric of special relativity, the Einstein field equations of general relativity, and the wave equations of quantum mechanics.