

Review of: "On Qubits and Quantum Information Technologies"

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Potential competing interests: No potential competing interests to declare.

The paper proposes a disruptive thesis about quantum information and quantum computing systems. The underlying statement is that quantum systems are impossible to create and that no physical object can implement a qubit.

It is the basis of the scientific method to deeply check the hypothesis and to put under analysis the entire inference chain that leads from observation to the final conclusions. Still, it seems that in this contribution, some of the basic assumptions of quantum mechanics are not accepted. Interestingly, the author counterposes the quantistic model with the Hilbert space to the Euclidean Space. It is straightforward to think of living in a Euclidean space; it is easier to visualize, to conceive, and to imagine almost the totality of the events that can be described in this space. Given some weird aspects of the Hilbert space, it is more difficult to model everyday life, but it better describes some aspects and some events that at a lower scale are essential for a better description of quantum phenomena.

Even if a model shows some controversial aspects, it is the best theory that we have to model these phenomena and is the best description for information elements.

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