

Review of: "On Qubits and Quantum Information Technologies"

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Potential competing interests: No potential competing interests to declare.

I have read this contribution with quite an interest. The author describes a depressing quantum computing scenario, which if true, will conduct the companies claiming they have somewhat constructed quantum computers as, to be nice, almost liars. Perhaps not too harsh judjement has to be put forward, but they are telling having operational quantum computers with say, N qbits, when they possibly have quantum computer simulators processing N qbits. It is hard to believe indeed. But might be interesting to dilucidate.

Perhaps more than interesting: unavoidable to give readers peace of mind.

On the other hand, the picture of the author when describing of the non-physical nature of the entangled qbits appears interesting. The Euclidian space metric, though, with the useful Euclidian distance, can be also deduced transforming the Euclidian space into a Banach space, adding a vector norm rule. Perhaps the author must deepen in this enlarged Euclidian picture and see if this cannot connect Euclidian and Hilbert spaces in a similar mathematical structure. Then, some of the arguments of the author should be modified accordingly.

In the references the author must quote and discuss in a understable manner the above mentioned claims of tech companies like Google and IBM to be able to handle quantum computers.

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