

# Review of: "The Brain as a Filter: Introducing a Quantum Ground into Integrated Information Theory"

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**Potential competing interests:** No potential competing interests to declare.

The paper is correctly written and introduces a very relevant hypothesis in the field. The academic standards are perfectly fulfilled. Integrated Information theory is one of the most important theories about consciousness in cognitive sciences and neurosciences. And both the filter theory of consciousness and the Quantum field as the last grounding of everything else are nowadays topics of interest.

However, there are many questions that remain open. Some of them affect the filter theory (for instance, if the brain is a result of filtration, how could it be a filter?). Other ones affect the choice for the grounding (quantum theory is also a result or product of filtration, so why be maximally realist about it?).

In any case, in my opinion, the paper should be accepted.