

# Review of: "Why Backward Time Travel Is Not Possible"

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

The idea of traveling back in time is quite interesting. Your analysis is based on the experimental impossibility of localizing a particle's position in space-time if it has irrational location. In this case, the provided argumentation is quite convincing. However, from a mathematical point of view, it is possible to find an infinite path of four-vectors with integer magnitudes. From Lagrange's four-square theorem, every natural number can be represented as the sum of four squares of integers. In particular, every square number is the sum of four squares. This invites us to think about a possible backward time travel machine.