

# " Time Travel" in Godel Spacetime: Why It Doesn't Pay to Work Out All the Kinks

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## Abstract

Here we provide a proof that there exist closed timelike curves in Gödel spacetime with total acceleration less than  $2\pi(9 + 6\sqrt{3})^{1/2}$ . This answers a question posed by David Malament.

**Subjects:** [Specific Sciences: Physics: Relativity Theory](#)

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