

# Time Travel and the Reality of Spontaneity

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## Abstract

Contrary to the informed consensus, time travel implies spontaneity (as distinct from chance) so that time travel can only be of the second kind.

**Keywords:** time travel, arrow of time, spontaneity, indeterminism, backward causation

[General Issues: Causation](#)

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

[General Issues: Determinism/Indeterminism](#)

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**Additional Information:**

This is a revised version of a paper first submitted for publication to Foundations of Physics in 1996. The paper received favourable reviews, but the minor revision suggested by a referee was somehow not carried out for a decade!