

Superluminal Signalling

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Abstract

Special relativity is said to prohibit faster-than-light (superluminal) signalling, yet controversy regularly arises as to whether this or that physical phenomenon violates the prohibition. I argue that the controversy is a result of a lack of clarity as to what it means to 'signal', and I propose a criterion. I show that although we have no reason to think that one can send signals faster than light, this is not prohibited by special relativity.

Keywords: superluminal signalling signal relativity Lorentz-invariance causality causation

[General Issues: Causation](#)

Subjects: [Specific Sciences: Physics: Quantum Mechanics](#)

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