

A revision of the principle of relativity.

Autorzy

Janusz Drożdżyński

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Streszczenie

In this paper some question connected with the time dilation effect are discussed. A thought experiment is presented in which it has been proven that, on the basis of the trajectory of a laser pulse in a moving frame of reference (spaceship) with a constant velocity, it is possible to determine the direction of movement and speed of the system with respect to the velocity of light. It has also been shown how this statement could be experimentally confirmed. We conclude from this that Einstein's principle of relativity needs a revision.

Słowa kluczowe

Special Theory of Relativity, Principle of Relativity, Thought Experiments, Time Dilation Effect, Inertial Frames of Reference, Detection of movement

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