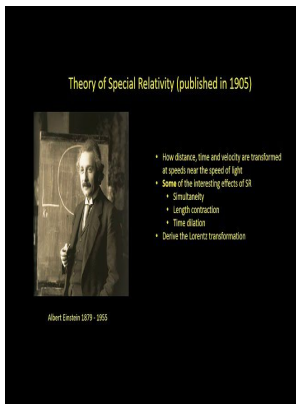


Introduction to special relativity

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- Introduction to special relativity

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Introduction to Special Relativity

He imagined a ray of light bouncing between two mirrors.

Introduction to Special Relativity

Special relativity revealed that there is a limit that can be approached but not reached by any material object. In everyday life, a three-dimensional coordinate system seems to describe the length fully. It is of particular importance that this form where one term has a sign different from the rest is in direct contrast to the above-mentioned example of euclidean space where all terms have the same sign, a signature of ++++.

Einstein Relatively Easy

Modern relativity is divided into two parts. Whoever measures a particular space-time interval will get the same value, no matter how fast they are travelling. The space-time interval is still given by: or alternately Space-time intervals are difficult to imagine; they extend between one place and time and another place and time, so the velocity of the thing that travels along the interval is already determined for a given observer.

Introduction to special relativity

Bill's s^2 equals John's s^2 so: and hence. The length is given by the three-dimensional version of Pythagoras's theorem. The derivation of this formula is shown in the illustration below. Unfortunately, there were inconsistencies between the two theories that seemed irreconcilable.

Ch. 28 Introduction to Special Relativity

This brings us to another point: Special Relativity or General Relativity for that matter cannot be derived from Newtonian or Classical physics in any form; a study of Special Relativity must begin with postulates that, until verified empirically, must be taken on faith, rather than proved from any pre-existing laws. Special relativity is limited to objects that are moving with respect to inertial frames of reference—i.

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