

SPEED OF LIGHT

Christin Doubek

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Speed of Light May Not Be Constant, Physicists Say

The speed of light in vacuum, commonly denoted c , is a universal physical constant important in many areas of physics. Its exact value is.

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Einstein's theory of special relativity sets of the speed of light, , miles per second (million meters per second). The speed of light in a vacuum is , miles per second (, kilometers per second), and in theory nothing can travel faster than light.

The speed of light – Einstein Online

The speed of light may not be constant, a possibility that could have broad implications for fields of cosmology and even astronomy, say.

When it comes to speed limits, the ultimate one set by the laws of physics themselves is the speed of light. As Albert Einstein first realized.

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Although we usually think of lengths and times as absolute, they turned out to be observer-dependent. Our editors will review what you've submitted, and if it meets our criteria, we'll add it to the article. History of the metre.

Some physicists thought that this aether acted as a preferred frame of reference. Another method is to use the aberration of light discovered and explained by James Bradley in the 18th century. Wave propagation and group velocity. Both papers say that light interacts with virtual particle-antiparticle pairs. The light from Io actually reflected sunlight, of course to get to Earth. The values cited here follow the latter convention, and are TDB-compatible.