

On the Absolute Meaning of Motion

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Audio-slide summary: <https://youtu.be/mFgYrEj28Es>

Abstract: The present manuscript aims to clarify why motion causes matter to age slower in a comparable sense, and how this relates to relativistic effects caused by motion. A fresh analysis of motion, build on first axiom, delivers proof with its result, from which significant new understanding and computational power is gained.

A review of experimental results demonstrates, that unaccelerated motion causes matter to age slower in a comparable, observer independent sense. Whilst focusing on this absolute effect, the present manuscript clarifies its context to relativistic effects, detailing their relationship and incorporating both into one consistent picture. The presented theoretical results make new predictions and are testable through suggested experiment of a novel nature. The manuscript finally arrives at an experimental tool and methodology, which as far as motion in ungravitated space is concerned or gravity appreciated, enables us to find the absolute observer independent picture of reality, which is reflected in the comparable display of atomic clocks.

The discussion of the theoretical results, derives a physical causal understanding of gravity, a mathematical formulation of which, will be presented.

Keywords: Kinematics; Gravity; Atomic Clocks; Cosmic Microwave Background

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