

"How Does Light "Know" How Fast to Travel?"

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One of the basic beliefs of modern physics is that the velocity of light is the same wherever and whenever it is measured. It is, in the language of physics, invariant. To illustrate this understanding, let us consider an example in which a rocket ship passes Mars on its way towards Earth. On the rocket ship and on Mars are two radio transmitters arranged so that, at the instant the ship passes Mars and transmitters are at the same distance from Earth, both transmitters send a signal towards Earth. Along the route, test stations observe the passage of the signals and report that the signals pass each station simultaneously, exactly in accordance with the requirements of Special Relativity. (Radio signals differ from light signals only in their frequency. Relativistically, their behavior is identical..)

This observation presents no problem if the radio signals are waves propagating through a medium (e.g. – the Aether) as sound does through air. The velocity of a wave propagating through a medium is the velocity of propagation of that wave through the medium. The velocity of propagation of the sound of a gunshot is independent of the velocity of the gun while the velocity of the bullet is not. The observation presents a difficulty, however, if we regard the photons which make up the radio wave as particles which are emitted from the source and travel ballistically to the target. Such would seem to be the concept of the propagation of light when one considers the apparent banishment of the Aether following the acceptance of Special Relativity. If there is no medium, then the observably same velocity of the two radio waves could only occur if the transmitter on the rocket ship had measured its velocity with respect to the transmitter on Mars and adjusted the velocity of its transmitted signal so as to cause the two signals to travel together.

The side by side propagation of the radio signals presents no problem if one accepts that they are a vibrational disturbance traveling through a medium (e.g. – the Aether), but if there is no medium it would seem to require that some sort of "magic" be involved. The presence of magic in physical processes is more difficult for the writer to accept than is the existence of the classical Aether. This conclusion is particularly true since the Aether has been shown to be conventionally unobservable but has never been shown to be non-existent. The latter conclusion results from the fact that physicists have jumped from an unproven assertion to a foregone

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conclusion. Dr. Einstein did warn that the non-existence of the Aether had not been proven, what had been proven was that it was not necessary for computations of relativistic effects.

The source material for this posting may be found in

<http://einsteinhoax.com/hoax.htm/> (1997);

<http://einsteinhoax.com/gravity.htm> (1987); and

<http://einsteinhoax.com/relcor.htm> (1997). EVERYTHING WHICH WE ACCEPT AS

TRUE MUST BE CONSISTENT WITH EVERYTHING ELSE WE HAVE ACCEPTED AS TRUE, IT MUST BE CONSISTENT WITH ALL OBSERVATIONS, AND IT MUST BE MATHEMATICALLY VIABLE. PRESENT TEACHINGS DO NOT ALWAYS MEET THIS REQUIREMENT. THE WORLD IS ENTITLED TO A HIGHER STANDARD OF WORKMANSHIP FROM THOSE IT HAS GRANTED WORLD

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