

Review of: "Some Considerations on the Speed of Light"

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Potential competing interests: No potential competing interests to declare.

Comment on the paper:

Some Consideration on the Speed of light

The author accepts that the velocity of light through vacuum is constant. If this is the case, light waves could be completely characterized by one single parameter: wavelength, frequency or period. The same applies to photons, a term used in the article. The author proposes to split velocity into two components: one due to wavelength and the other frequency. There is little scientific merit for this proposal. It should be reminded that either frequency or wavelength is sufficient to characterize electromagnetic wave propagation through vacuum. The author justifies his proposal using, for example, light detection and measurement. But it is a well-known fact that higher frequency waves carry more energy as there would be more pulses pass through a detector per unit time.

If the author wishes to promote his splitting idea, it would be preferred to consider a non-vacuum medium in that light does propagate with different velocities. But frequency dependent velocity should be treated as a relationship and not just use two components.

In the present form, there is insufficient merit for the article to be published.