

Interpretations: A memorandum

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This memo illuminates the problem of how discussions on chat pages and in conferences should be focused.

Background

Most dissidents have their own theories and advocate own ideas instead of giving critique to others. The focus is too much on theories and too little on interpretations of observed phenomena. These ideas are here exemplified by presenting alternative interpretations to the three most important phenomena behind special relativity.

Stellar aberration

A common opinion is that stellar aberration excludes the entrained ether. The difference between the Sun's ether-wind and that of the Earth is assumed to add to light's velocity in such a way as to compensate aberration. However, ether-wind is a *translation* of an entity and light velocity is a *propagating process*. Only translation can be added by the ether-wind, and not rotation. The *orientations* of the wave-fronts are therefore *conserved*, and independent of ether-wind. Since the telescope detects wave-front normal it is blind to transverse components of ether-wind. Therefore: *ether-wind can not be detected by transverse effect*.

Michelson-Morley's experiments

Michelson tried to detect an ether-wind's effect on two-way, ether-based communication (addition of propagation times). Atoms in a crystal communicate relative positions by means of two one-way communications

(addition of forces). Since the effects are as low as 10^{-6} (not 10^4) we can assume linearity and the two effects to be equal and compensate each other, and thereby producing constant time of propagation. Therefore: *ether-wind can not be detected by second order longitudinal effect*.

Sagnac effect

Sagnac effect is distributed along a *translating line* and not over a rotating surface. Sagnac effect is therefore caused by translation. Translational Sagnac effect in GPS is relevant and indicates an ether definitely entrained in translation but probably not in rotation. Therefore: *ether-wind has already been detected by first order longitudinal effect in GPS*. The synchronization problem has been circumvented.

Conclusions

Stellar aberration and Michelson-Morley's experiments are both *silent* methods in relation to the ether-wind. However, the Sagnac effect *can* demonstrate the ether's existence and state of motion. In fact this is already done in GPS. *This refutes the special theory of relativity*.

The important role of interpretations in physics means that a tight integration between theoretical and experimental physics is necessary. Cooperation between scientists and engineers (GPS) is also important.

Remark

Three more articles to NPA 2009 are available at: www.geocities.com/johnerikpersson