

Conserved Wave-front: A Memorandum

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It is demonstrated that misinterpretations of stellar aberration and Sagnac effect has given false arguments against the entrained ether.

Background

Michelson-Morley's experiments (MMX) have been debated for about hundred years, but stellar aberration has been debated to a much lower extent. More debate around stellar aberration is needed. From Sagnac effect in GPS (Global Positioning System) we can conclude that the ether is entrained in translation.

Conserved Wave-Front

Most scientists, including Einstein, have stated the opinion that stellar aberration refutes entrained ether due to a compensating effect [1] caused by changes in the ether-wind when light moves from an ether controlled by the Sun into an ether controlled by the Earth. This reasoning is based on a vector addition of velocities of ether motion and wave motion, probably influenced by ballistics and the particle model for light. Instead we must remember that \mathbf{c} (vector) represents the normal to a wave-front (not particle motion). When we add an ether-wind \mathbf{v} (vector) to *all points* on a wave-front the wave-front's orientation is still \mathbf{c} , that is *conserved*. It is important to remember that \mathbf{v} and \mathbf{c} are not the same type of physical concepts. \mathbf{v} is the motion of an ether and \mathbf{c} is the motion of a *behaviour inside* that ether. Therefore, due to conserved wave-front and the fact that a telescope detects wave-front orientation, we can conclude that entrained ether has the *same* aberration as autonomous ether. No compensation is done. (Reported to NPA since 2005.) Aberration is an illusion produced in the telescope by the time delay between focusing and detection of light. Stellar aberration is united with *both* ether models. More details in [2].

Generated Ether

'Generated' has been used by this author to represent an ether entrained in translation but not in rotation. It has been stated by scientists, including Einstein, [1], that entrained translation without entrained rotation is impossible. This statement does not hold, due to the lack of information about the ether.

Michelson-Morley's Experiments

Due to conserved wave-front Stokes' reduction of Michelson's prediction by 50% is wrong. Michelson's idea to use two-way, ether-based communication is impossible, since nature uses two-way, ether-based communication to control separation between atoms in a crystal. The idea is *also* impossible due to the fact that available ether-wind is in the order of $10^{-6} \times c$ instead of $10^{-4} \times c$.

Sagnac Effect

Sagnac effect *has* proved an ether entrained in translation and *can* give us evidence about rotation also. A method is described in [2].

Conclusions

Transverse light waves *conserve* wave-front orientation in relation to changes in ether-wind. Stellar aberration is therefore *silent* about ether model and entrained ether is possible. *The ignorance about conserved wave-front is the main reason behind SRT.* MMX failure was not important.

References

- [1] A Einstein, (1918 Nov), "Comments on E Gehrcke's English translation at www.wbabin.net/physics/traill5e
- [2] J.-E. Persson, "The Forbidden Ether", **16:th** Annual Conference of the *Natural Philosophy Alliance* (2009), also available at www.geocities.com/johnerikpersson