

EINSTEIN IS WRONG

A memorandum about special relativity

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1 Michelson-Morley's experiments

The self organization of atoms into crystals is based on the ether. What else. Two atoms produce static fields in the ether with forces that are combined to zero for a certain separation. The atoms are positioned by means of the ether. When the crystal is moving in relation to the ether with velocity v the fields become dynamic and positions are communicated between the atoms with speeds $c \pm v$. Michelson sent light between mirrors also with speeds $c \pm v$ and propagation times are added together, resulting in a two way light speed $c(1 - v^2/c^2)$. The fields that control atomic separations are propagating simultaneously and their effects are added together. Since $v \ll c$ it is reasonable to assume that the two kinds of additions give the same result. The ether-wind has than the same effect on two *one-way* fields as on one *two-way* field. If this is true we have the same contraction in atomic separations as in two-way light speed, and the effect is compensated and the method is silent. This explains why Michelson-Morley's tests have failed for hundred years.

2 Stellar aberration

In the interpretation of stellar aberration, and also in Michelson-Morley's experiments, it is assumed that light travels with speed c but nevertheless is changed in direction by a transverse ether-wind. This behavior is *impossible* for a plane light wave, since the same constant light speed over a plane wave-front *conserves* the orientation of that wave-front. The relation between a plane wave-front and the ether is such that only the ether-wind's component *perpendicular* to the wave-front has relevance for the wave motion. The propagation of light is therefore described by $c(1 + v_L/c)$, (and v_L is longitudinal to light). The vector sum does *not* describe wave motion.. In relation to the ether the vector \mathbf{c} , is conserved. This means that stellar light travels from an ether with the Sun's velocity into Earth' ether without any effect visible in a telescope. This fact explains the enormous sharpness in images from fix stars. Einstein was ignorant about this fact, as we can see in a letter from Einstein to E Gehrcke in 1918. Stellar aberration demonstrates *changes* in observer motion but is *silent about the ether-wind*, and has been misunderstood for 200 years.

To NPA

3 Sagnac effect

Sagnac effect can be locked in inside an optical fiber, since the effect is where the light is. Sagnac effect is therefore caused by a *translating line*, and not by a rotating area. The line can be a rotating circle or a translating straight line. The effect is translational and can be detected in rotating or translating equipments. According to Stokes rule the effect can *be mathematically described* by either a rotating area or by a translating edge of that area. However, a *physical explanation* is given only by the translating limit of that area, since *the effect must be where the light is*. The wrong classification of Sagnac effect is the reason why the effect has not got a decent explanation since 1913. Sagnac effect for a straight line of length x is a time delay equal to xv_x/c^2 , where v_x is the component of the ether-wind that is in the direction of x . The Sagnac effect in GPS *detected an ether* that is translated but not rotated by our planet.

4 Special relativity

- I MMX is a *silent* method, since the searched effect between mirrors *also* exists between atoms in a crystal.
- II Stellar aberration is a *silent* method, since the orientation of a plane wave-front does not depend on ether-winds *inside* its own plane.
- III Sagnac effect exists on a line and not on an area and is therefore a *translational* effect. Sagnac effect demonstrates therefore an ether-wind and is very *important*. In GPS the Sagnac effect has demonstrated an ether that is *translated but not rotated* by our planet.
- IV Special relativity *is* wrong, *and these three important errors have dominated physics for about hundred years*.

Remarks

Einstein's letter to E Gehrcke in 1918 is available at:

<http://www.wbabin.net/physics/trail15e.htm>

Interpretation errors in all three important phenomena behind special relativity are described by this author in *Galilean Electrodynamics* Dec 2005, in contributions to *Natural Philosophy Alliance* yearly since 2005 and in *Infinite Energy* Jan 2008.

Methods for empirical verification of these ideas are described under 'Experiments' at:

www.worldsci.org/people/John-Erik_Persson

(There is an underscore between my two names.)

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