

Crash of relativity after Lorenz–Einstein

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We have got used to learn the world and to live in it with the help of comparisons. We judge with the help of comparison speed of movement of a body, any kind of transport. We compare it with a body, taking place in rest or moving with other speed. If speeds are identical, we should look around for bodies that have other speed or in general on our notion are motionless. Or weight of a body for their exact knowledge should be compared or to weight of other body, or with force of a stretching of a spring in devices about in such a way comparison - in spring balance. We also determine distances, comparing them with meter and other linear measures.

The principle of knowledge by comparison is determined as a principle of relativity. For the first time this principle has formulated by Galilean theory. He considered two bodies, two systems of readout determined in coordinates x, y, z which are measured in space for which there is absolute time. We shall consider for brevity, that movement occurs in space only on one coordinate " x ". In this case Galilee transformation of coordinates occurs so: $x' = x - vt$; $x = x' + vt$. Here " v " - speed of movement of one body (system of coordinates) was concerning other body (other system of coordinates). From such natural assumption follow invariants of Galilee transformation; distances between points A - B and points A'-B' are equal, from absolute time and identical speed of a course of time follows, that differences of times are equal to both bodies (different systems of readout) at relative speed " v ". In such systems all physical laws are identical. However, in case of propagation of light (an electromagnetic wave), submitting to Maxwell equations, speed of light in different Galilee systems will be **different**. The contradiction is resolved by rescue ether in which light, being is radiated by a moving body, has one speed independent of speed of a body. Speed of light is on air determined by electric and magnetic parameters of ether. If ether to remove from concepts of physics The Galilee relativity will be in the insuperable contradiction with electrodynamics (the electromagnetic waves following from Maxwell formulas).

But the ether was removed from physics as nonexistent object. For rescue of electrodynamics Lorenz has entered other transformation of coordinates and time, erasing one difficulty, but inducing other difficulty. Below we shall see it. Lorenz has acted in very strange image that was justified only by denying of existence of ether in which speed of light due to properties of ether is independent of speed of a source or the receiver. He has assumed, that time is the relative phenomenon, it depends on space (coordinates)

$$t' = kx + nt; \quad x^2 = (ct)^2; \quad x'^2 = (ct')^2;$$

We see, that speed of light is accepted identical to two different systems moving are relative each other with speed v :

$$x' = m(x - vt').$$

From the given equations it is possible to determine factors

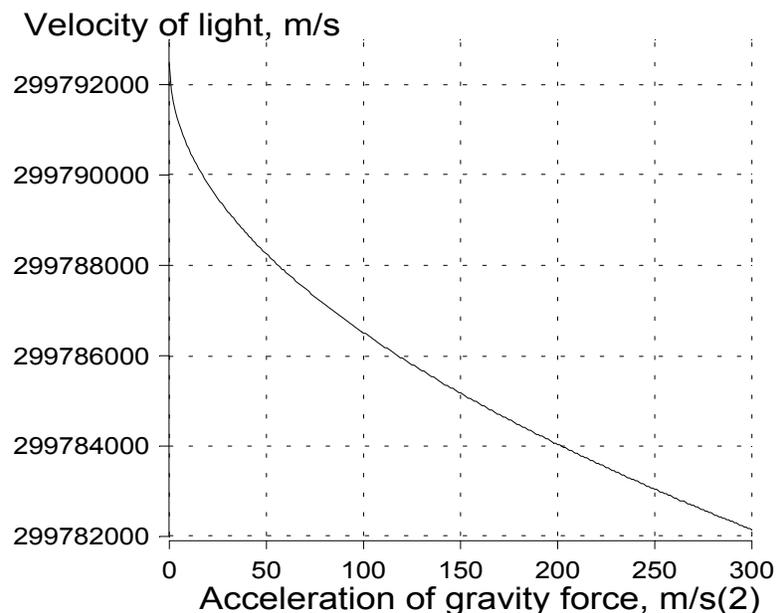
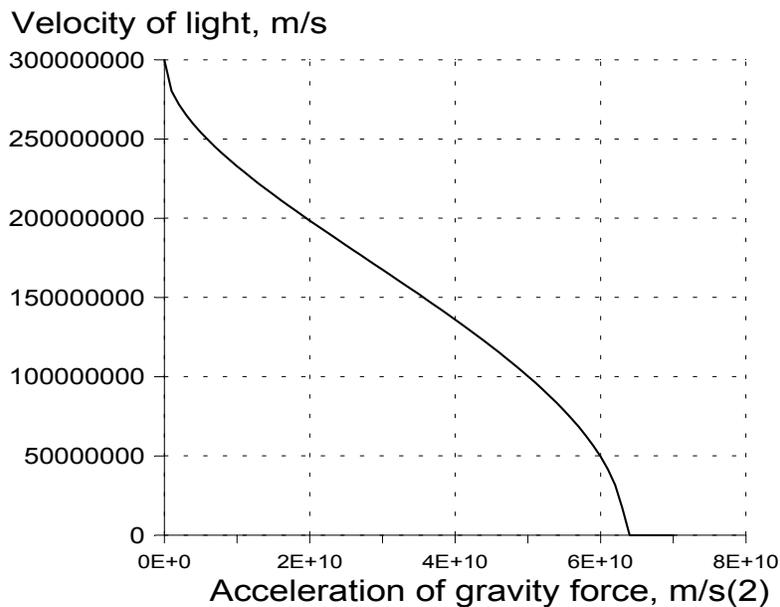
$$m = \frac{1}{\sqrt{1 - (v/c)^2}}; \quad k = \frac{v/c^2}{\sqrt{1 - (v/c)^2}}; \quad n = \frac{1}{\sqrt{1 - (v/c)^2}}.$$

So Lorenz has received formulas of dependence of length of distances and time intervals from the relation of speeds v/c which further Einstein used in the retelling the given theory, having postulated a principle of a relativity and a constancy of speed of light in any system of readout. Lorenz himself points out that his result is no more than just curiosity. From Lorenz and Einstein theory four-dimensional space - time follows. Substances here are not present. Abundantly clearly for any researcher of the Nature, that the space can be determined only by a presence in space of different bodies (substance) and existence of distances between bodies (system of coordinates). Current of time can be determined only when in substance there are changes (movement, dynamics of

movement in any form). Thus, introduction of Lorenz transformation and abstract space - time breaks radically a materialistic method of research of a nature and the universe. The idealism has penetrated theoretical physics of XX century.

And how to be with the relativistic effects observed on experience? Unfortunately, strange image some experiences as if testify for the benefit of relativity. At least, there is no obvious divergence, except for some phenomena. To the last it is possible to pay attention inexplicable even in relative frameworks to abnormal acceleration of device "Pioneer-10" and others. NASA Employees have touched all conceivable and inconceivable ideas to find the reason of the abnormal acceleration, equal $8 \cdot 10^{-8} \text{ m/s}^2$. They have found non-of reasonable reason for explanation. The author has made the assumption, that speed of light depends on a condition of space (environment – ether) from such "fields" as gravitation, acceleration of bodies, electromagnetism. The hypothesis about dependence of light on physical "fields" is stated in article of " the Beginning of natural physics ".

On below diagrams the dependencies of speed of light in scales of Solar system and Black Holes are given:



The speed of light versus gravity acceleration is given.

At start of space vehicles speed of light on the Earth is one, and in a free space it is another and difference is visible only in 8-th mark. For the Sun at which acceleration of a gravity is 28 times more terrestrial, the effect of reduction of speed of light on a surface of the Sun is more and the difference is already in 5-6 marks of value of speed. In the research experts result the formula of dependence of Doppler displacement of frequency of a radio communication with "Pioneer - 10"

$$\Delta v = v_o V / c$$

That abnormal part of Doppler displacement of frequency depends not only on reduction of speed of movement of device " V " rushes to eyes, but also from speed of light "c". It is enough to determine a difference of speed of light in a free space from speed of light in a gravitational field of the Earth and the riddle of abnormal acceleration of the device can be solved so: there is no abnormal acceleration, and there is a dependence of speed of light on gravitation. It is remarkable, the increase of speed of light in space just coincides with is the sign of Doppler abnormal displacement.

Such dependence of speed of light gives completely other interpretation for a diffraction of rays of light by heavy objects in space. As a result of different speed of light in space " c_o " and about a gravitating body " c_g " the factor of refraction which is well-known in optics as: $n_i = c_o / c_g$. So gravitational lenses in space, a diffraction of a ray of light by the Sun, found out are formed by dependence speed of light versus gravity. Observable red displacement from sources on heavy massive objects also speaks that speed of light at radiation is small and on the way of its propagation to a free space there is a red displacement of radiation frequencies. Conditions of black holes, which are already found out in the universe, are those, that their gravity reduces speed of light up to zero - and we do not see black holes. They are shown only to indirect evidences and still on characteristic jets (to the streams of particles directed along magnetic force lines and conterminous to an axis of rotation).

And so is business with all "relativistic" effects ("slowing" of time, a diffraction of light under gravitation, red displacement and so on) - instead of normal their physical explanation is used obvious infringement of a principle of materiality of our world. Once again we shall recollect absurd from the point of view of normal logic introduction of dependence of time from coordinates of space $t' = kx + nt$ (a relativity of time). In this formula Einstein had sentenced the Special Theory of the Relativity to inevitable crash.

The note. The author has tried to contact one of authors of research of abnormal acceleration of "Pioneer-10" in NASA, however after the explanatory of a problem which does not based on relativistic positions, communication(connection) with That NASA employee was unilaterally interrupted. The author has practically lost an opportunity to get the necessary data on Doppler effect which could be confirmation of validity of the given text.

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