

The Theory of Absoluteness* of gravitation and electrodynamics

Resume

1. As is known, the undoubted **principle of relativity** of motion of two bodies (e.g. the Earth and the Sun) implies their mutual **sameness** in its distance, trajectory and velocity: *as* one moves relative to the second, *so* identical the second one moves relative to the first.

From this *inner* identity of movements comes relativism of Einstein and others.

Yet, the principle of relativity there is another side: the two bodies move **differently** relative to the **external** third bodies: to the Moon, Venus, Saturn and even distant stars (parallax, aberration). Thus, the motion of bodies is not the same (**not** "equivalent", not "equal", → not "interchangeable"), but this **relativity** of motion, space and time **forms** their **Absoluteness** (\equiv uniqueness any, difference and → **not** *interchangeability*).

Relativism neglects or ignores this aspect.

2. However, the movement is relative **absolutely** no only in the kinematics, but especially in the dynamics.

Dynamic equivalence motion of some **closed** system of bodies exists only in the conditions of their **equal-action** ("equilibrium"), *relatively* "center of gravity" (center of inertia), which is not involved in their movement, because the total sum of their impulses is unchanged $\sum_i m_i v_i = 0$. But and this "equilibrium" is *approximately* because *complete* isolation ("closedness") of the system from external disturbances unattainable.

Outside equilibrium, only "transformations of the coordinate system" ("frames" or reference system), of course, you can make the Earth's relativistic "*equivalent*" of the Sun -- and then it will gain relative planet's huge kinetic energy -- as in a breach of the law of conservation of energy to surprise by *miracle*. Sorry, this energy is not physically real but is fictive, that is **only mental**, and it did not move even a feather.

3. Another radical difference ("nonequivalence") between movements **gravity**-inertial and **electrodynamics**.

3.1. The inertial mass of an object so surprising and always exactly equal to its gravitational mass $m_i = m_g$, that **inertia** (\equiv resistance of the body of his acceleration) is the result of **gravitation**.

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Namely, the inertia caused by **equal-action** of **counter-gravitations** of infinite sets of the surrounding world masses (Equations 25.1-3). It is similar to a fable, where a cart is immobile because it is pulled once in different directions Swan, cancer and pike.

However, when the object is slightly shifted, why is it still in this center of the resultant gravitation (“**centre of gravity**”) disturbing the balance and heading in some direction? Where can we find this “center of gravitation” of the all infinite universe, an **absolute centre**? This “centre of gravity” will always shift relative to various collections of masses.

Because the centre of **infinity** (that is the centre of the sphere with an infinite radius of the universe $R = \infty$) is **everywhere**, at any point. Even if the body is shifted, but according to the definition of infinity, the same infinite of masses, will remain *behind* it as well as in *front* of it -- and the body will not go out of this centre of equilibrium. And only the unbalanced pull of *closer bodies* and **resistance** (\equiv **inertia**) to the **acceleration** are distinguished, the disturbance of other balance equal to the own mass of the body $m_i = m_g$ and homogeneity and isotropy of inertia establish (chapter 25) – as opposed to the "Mach's principle".

3.2. Contrary relativistic *ban* instant signals -- action of inertia is just **instant**, and since the inertia is a sort of gravitation thus it means that the gravitational long-range action is too instant.

Gravitational field does **not** have any velocity, because it is not a radiation, does **not arise and not propagate**, but **extends, exists beforehand** as the **extension of the object**, its continuation *whole* nimbus, invisible mutually permeable and weakening with the distance $\sim 1/r^2$ and it moves with its centre as a whole, of course, at the *sub-light* velocity like the central mass. Therefore the gravitation shift velocity is lower than the light $v < c$, but its revelation in action at any distance is **instant**: $v_g < c$, but $t_g = 0$.

The instantaneity of gravitation action is confirmed by the absence of any **delay** in the action of gravitation shifts on time $t = s/v$ in the movement of the Moon, planets, double stars, in explosions of stars and in all the known facts of cosmic ballistics.

The instantaneity of gravitation shifts **excludes gravitational waves**.

Although it should be the *structure* and *fluctuations* of the gravitational field due to oscillations of its center – the mass, but not as the *radiation*.

4. The **electromagnetic** radiation of electrical charge induced by their **acceleration**, but relatively **not** to *nearby adjacent* bodies: from their shift the charge does **not** radiate.

The electromagnetic **induction** of charge is caused by its **acceleration** (\equiv by breach of its inertia \equiv world gravitation), therefore, the induction, the radiation and its “**light speed**” **c** relate **not** to the radiator.

The driver of the electromagnetic radiation is **not** the *inertia* (and the gravitational component in it is negligible), and the **induction**, \equiv the causing by each its previous transverse electromagnetic pulse (**photon**) its next transverse pulse, emerging at a distance "wave length" λ with velocity **c** and, respectively, ultimately, radiation **refers** to the **instant place** of the first initial original starting pulse \equiv emitted charge in world **absolute** (!) **space** ("Space of Stars").

5. But the not by **inertia** propagation of the electromagnetic radiation **excludes** the **inertia** out the **addition** of its “light speed”. Therefore, the light-speed **c** does **not** relates to a *radiator* (emitter), as Michelson thought (to the Earth), and is added to its velocity v

not inertial, as in gravitational mechanical motion as ballistics and as W. Ritz assumed.

The light speed refers to behind him an instant place in absolute space of the world gravitation, where his previous pulse, and thanks to the absoluteness of its original instant location and its **non-inertialness** -- thus then radiation breaks away from him and spreads independently from radiator and on its speed (e.g., atoms and electrons of the lamp, the ions of the solar atmosphere, or atoms and electrons re-radiators (mirrors), or refractors – prisms and so on.)

Such are the difference and the bond of gravitation and electromagnetism.

6. Because of these fundamental **differences** of movements follow the **special laws** of **addition** of the **light speed c**. (The equations 21.1 – 21.5).

Contrary to relativism **relative** to the radiator (let its *inertial* velocity v) and **relative** to the receiver (its inertial velocity u) exists vector **addition** of the light speed c . But it is strange, unusual, more precisely unaccustomed for us according to laws habitual *inertial* addition ($s + v$) in ballistics of the mechanics in our **macro-conditions**. Namely -- it is **inverse**, **aballistical**, **non-inertial addition**, and here going the **deduction** of velocity of inertial motion ($c - v, c - u$) – depending on their mutual direction. Owing to this **inversion** of the **light speed c** can be variable **not** only relative to a receiver, but relative to a radiator itself, and as a result the received velocity of a radiation (c'), contrariwise, can **not** be changed from the motion of a radiator: $\vec{v} * c = c' = const$, but $\vec{c}_0 - \vec{v} = \vec{c}_i$, $\vec{c}_i = \vec{c}_0 + \vec{v}$, $\vec{c}' = \vec{u} + \vec{c}$, $\vec{c}' = \vec{c} - \vec{u}$, and m. p. addition and permanence of light speed in case of *conjugate* or *dual* motion of a radiator and a receiver when $\vec{u} = \vec{v}$.

7. **Non-inertial addition** (\vec{w}) of electromagnetic speed forced to the corresponding **anisotropic** modification of the Maxwell's equations (21.6 - 21.7).

Aballistics' modification the Maxwell's equations under the laws of a **inversion non-inertial addition** of the light speed c provides **non-contradictory explanation** of all known electrodynamics facts: of star aberration, Doppler effect, motion of binary stars, rotating pulsars, negative results of Michelson's and Trouton's experiments of second order and the peculiarities of optics of moving bodies. Both with the **photon-genesis** theory of substance (chapters 5, 26, 28- 30) they explain the well-known **sub-light effects**: longitudinal deformation of bodies, deceleration of processes in them and growth of mass. And others, but also the **prediction** of new facts available experimental verification.

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Details and the calculations see:

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