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The potential of human consciousness

Abstract: The systematic application of dialectical methodology makes it possible to identify the cause-and-effect foundations of not only the past, present, but also the future evolution of Being, the essence of which is the gradual harmonization of all its levels in a mirror-symmetrical sequence of the following nine stages. The meaning of the evolution of Being as a whole consists first in creating conditions for the emergence of living matter and its consciousness during the early evolution of inanimate matter, then reaching the qualitative limit by the consciousness of “people” on its centers (sustainable reproduction of objective values based on the ideal of Harmony and objective knowledge through the complete application of dialectical methodology based on the self-sufficiency of empirical data) with the subsequent gradual harmonization of all levels of Being to a system of interaction between universes and hypothetical anti-universes (outside of the theoretical postulation of which the evolutionary nature turns out to be inexplicable and the future of humanity in the conditions of inevitable exhaustion of energy turns out to be pessimistically disastrous). Meanwhile, the potential of human consciousness is the top of the evolutionary pyramid, providing an optimistic finale to the evolution of Being.

Keywords: dialectical methodology, emergence, culmination, elimination of the system of epistemological and ontological opposites, phases and stages of the evolution of inanimate and living matter.

Introduction

When biologists, and especially astrophysicists and cosmologists, talk about the distant prospects of humanity, they, thinking in terms of millions and even billions of years of (broadly already understood) evolution of inanimate and living matter, as well as the modern immensity of the Universe, come to the sad conclusion that the appearance of humanity on a “tiny” Earth is “a tragic farce,” consisting in the inevitability of the death of humankind from:

- the natural degradation of people in the absence of an obsolete biological struggle for existence (in tens of thousands of years),
- the inevitability of the death of the Sun, as well as any star (in units and tens of millennia),
- the inevitability of the upcoming expansion (and cooling) or compression (and fiery collapse) of the Universe (in billions of years).

In this case, people are given the role of knowing the irremediable causes of their supposedly inevitable impending death.

Meanwhile, the above “fundamental” arguments are profoundly erroneous, since they do not consider the main evolutionary pattern – its implementation precisely at the top of the evolutionary pyramid.

In the previous two articles, this pattern was illustrated by the example of the evolution of living matter on Earth: the dominance of single-celled microorganisms at the stage of biochemical evolution was replaced in strictly mathematical terms by the dominance (first of extra-skeletal, then intra-skeletal, and finally cephalizing) animals at the stage of biological evolution and, finally, the supremacy of abstractly thinking people at the stage of (cultural) social evolution, consisting of 3 (pre-antagonistic, antagonistic, post-antagonistic) phases and nine stages based on changes in priorities of ethical (community-command-administrative), economic (market) self-regulation. Moreover, in these articles it was hypothesized that in the 2030s (the deadline for completing the acceleration of the evolution of living matter by the coefficient $e \approx 2.71... / \text{the number of Nepera/}$, on Earth $ke \approx 2.67...$, that is, with some delay due to increased seasonality) accelerating ontological and epistemological self-regulation, when the evolving consciousness of people adapts to an objectively contradictory existence based on its inconsistency, will be replaced by a slowing one epistemological and ontological self-regulation, when the mature consciousness of people, overcoming its inconsistency, begins to gradually harmonize Existence based on the sustainable reproduction of the unity of objective values and objective knowledge, starting with the centers of evolution of living matter.

Results

This article raises the question of the humanistic and creative perspectives of human consciousness (based on insight into the past and future evolution of inanimate matter) even more expansive.

The meaning of the evolution of Being is that:

- The first meta-stage (two macro-stages of three stages each with accumulation and three stages with resolution of the crisis of contradictions between opposites) of the evolution of objects of inanimate matter ends with the creation of conditions for the emergence of subjects of living matter and their consciousness (on planets of the 2nd and 3rd generations, characterized by the presence of three aggregate states of matter, the electroneutrality of cosmic macro objects and the presence of states of relative rest);
- The second meta-stage (two macro-stages, also with the accumulation and resolution of the crisis of contradictions between opposites) of the evolution of subjects of living matter ends with the achievement of the qualitative limit of the evolution of the creation of abstractly thinking people, consisting first in the theoretical and then in the practical reproduction of the unity of objective values and objective knowledge, respectively, first in the scientific and then in the general consciousness of people of mature age gradually harmonizing their centers of evolution of living matter;
- The third meta-stage (with two macro-stages) of the evolution of not only living, but also inanimate matter consists in the step-by-step harmonization of Being, first at the level of the Universe, and then... – the entire system of universes and anti-universes through the

efforts of their living matter, which naturally achieved sustainable reproduction of the humanistic and creative quality of its consciousness.

We modern people do not and cannot have empirical knowledge about such a distant future. But on the other hand, we can gain this knowledge theoretically based on understanding the patterns of past evolution with their mirror-symmetric extrapolation into the future. This is precisely what was done in previous articles regarding the past, present, and future of living matter. Now, the horizons of dialectical analysis can be expanded from the hypothetical Big Bang to the hypothetical completion of the entire mega-stage of the evolution of Being. This approach reveals the meaning of the mega-stage of the evolution of Being, which consists in the fact that in a system of gradual emergence, development, culmination, elimination and removal of its opposites, conditions are created for the emergence (based on organic chemistry) of living matter and, most importantly, its consciousness. Then, based on abstract thinking, the evolution of consciousness reaches its qualitative humanistic and creative limit – the sustainable reproduction of the unity of objective values and objective knowledge in the centers of the evolution of living matter, and on this basis, a phased harmonization of Existence will be performed throughout the system of universes and anti-universes.

The Big Bang is not an “idealistic” emergence of a colossal portion of energy from “nothing” (supposedly creation!) and it is not a “materialistic” pulsation (in expansions and contractions) that exists forever (do not understand where it came from!) energy. The Big Bang is a dialectical transition of the “zero state of Being”, characterized (according to modern relativity theory) by the absence of both time and space, into a state of opposite energy with hypothetical anti-energy, similar to the emergence of an infinity of pairs of electrons and positrons from specific portions of energy (or hypothetically anti-energy) with the possibility of annihilation with the emergence of the same portions of energy (or anti-energy). Consequently, the Big Bang is the emergence of not one Universe, but at least a pair of the universe and the anti-universe, which theoretically thoroughly explains the evolutionary origin of energy. The question arises: why only couples? Once upon a time, people (purely on empirical grounds) thought that the Earth was one, the solar system was one, the galaxy was one, and the metagalaxy was one... And now it seems that the universe is one. In reality, every time people face a new level of infinity, the same principle is inevitably realized with pairs of universes and anti-universes (maximal physical formations), which are as quantitatively infinite as pairs of electrons and positrons (minimal physical formations) arising and annihilating in any region of space.

Each dual macro-stage of the evolution of Being (matter “with us” and anti-matter “with them”) consists of three macro-stages (three stages each) of accumulation of contradictions and three macro-stages (three stages each) of removal of these contradictions, as observed in the analysis of the evolution of living matter. Thus, the evolution of inanimate matter consists of 6 stages, the first three of which are almost hidden from modern empirical observations based on the grandiose relativistic discrepancy between the slow-motion (gravity of the Universe and, in particular, the Solar System) course of modern terrestrial time and the primary fastest current (which has just begun to slow down after the state of simultaneity of the event) “of its time” in the early Universe (with a minimum level of gravity). Today, we observe cosmic microwave background radiation based on modern Earth’s time. Therefore, it seems to us that significant events in the early universe occurred in astronomical fractions of seconds. On the other hand,

based on identifying the dynamics of the timing of the evolution of living matter, it opens up the possibility of extrapolating these dynamics into the past by discovering the timing of the “own” (gradually slowing down) time of the Universe. As the universe accumulates mass and gravity, the difference between its time and Earth’s time is reduced to a minimum. It is necessary to consider the macro-stage and the stage (with their timing) of the early evolution of inanimate matter:

– A macro-stage of the ontological self-development of inanimate matter before reaching the culmination of ontological opposites:

- The emergence stage of bosons – massless subatomic particles of radiation <10-32 s. Earth time; 3.5 billion years of “its” slowing time, which thoroughly explains cosmological inflation – the enormous growth of the Universe during this time>;
- The stage of the emergence of fermions and anti-fermions, subatomic particles with mass, with a three-phase priority of either the negative charge of leptons, the positive charge of quarks, or the negative charge of leptons again, and with the beginning of the displacement of anti-matter, which temporarily maintains the electro-neutrality of the Universe, as complex structural fermions bonded by bosons arise replacing positively charged (and temporary) antimatter burning out in the universe <10 seconds of Earth time; 2 billion years of “its own slowing time”>;
- The stage of the emergence of protons and neutrons (hydrogen and helium) paired with anti-protons and anti-neutrons (anti-hydrogen and anti-helium) in violent mutual births and annihilations with a three-phase priority of negative and positive charge and with a nine-stage priority of strong and weak nuclear interactions <3 minutes of Earth time; 0.1 billion years of “its own slowing time”>.

– Macro-stage of the ontological self-development of inanimate matter of the primary removal of ontological opposites on the planets of the 2nd and 3rd generation of star-planetary systems:

- The stage of the emergence of protons and neutrons with complete antimatter burnout in the Universe (due to the achievement of the electro-neutrality of the Universe based on the balance of negatively charged simple electrons and positively charged composite protons) <0.1 billion years of “its own decelerating time”, already approaching close to modern Earth time due to the accumulation of the mass of the Universe, close to the contemporary value>;
- The stage of chemical evolution, which takes place in three phases of local contraction of hydrogen-helium nebulae (the phases of the so-called “dark ages”), the formation of the entire system of chemical elements in the outbursts of superstars of the first generation and the formation of the whole of atomic and molecular system of substances of inorganic chemistry (metals – amphoteric substances – nonmetals – inert gases; metal oxides – amphoteric substances – non-metals; acids – bases – salts, etc.) <2.3 billion Earth years>;
- The stage of cosmological evolution, which consists in achieving on the planets of the star-planetary systems of the 2nd and 3rd generation with the presence of three aggregate states of matter and a state of relative rest as a possibility for the further emergence of

biochemistry, and consequently, the evolution of consciousness of living matter <3.5 billion Earth years>.

Of course, this information is little accessible to representatives of the natural and social sciences, but it is precisely this information that gives an idea of the future harmonization of Being by the transformative, mature humanistic, and creative consciousness of the “people” of universes and anti-universes.

After the completion of the promising three-stage harmonization of the centers of evolution of living matter discussed in previous articles, a large-scale period of feasible harmonization of inanimate matter by “people” will begin, without which living matter would indeed inevitably perish. However, once again, the evolution of Existence occurs only at the top of the evolutionary pyramid, which is a promising humanistic and creative consciousness of living matter. Therefore, based on the understanding of the meta- and macro-stages (six stages) of the past evolution of inanimate matter, we can safely assume the presence of a macro-stage (six stages) of the future harmonization of inanimate matter after the still promising implementation by humans of the harmonization of the foci of the evolution of living matter.

– The macro-stage of the harmonization of inanimate matter before reaching the secondary culmination of ontological opposites:

- The stage of contacts between the humanistic and creative civilizations of the Universe (mirror-symmetrical cosmological evolution) consists in combining the humanistic and innovative potential of the consciousness of “people” in joint adaptation to the problematic cosmological conditions of the Universe with the task of at least settling and optimizing new stellar and planetary systems with transfer to them (on the eve of the death of their stars) purposefully harmonized biosphere <3.5 billion Earth years>.
- The stage of harmonization of the regions of the Universe based on its resources (mirror-symmetrical to the stage of chemical evolution) will be carried out in three phases of geophysical (atmospheric, lithospheric, hydrosphere) preparation of inhabited planets, filling and harmonization of their biosphere with subsequent resettlement of “people” on them. This will be the most difficult (middle) stage of the intra-universe harmonization of Existence in conditions of a secondary increase in the severity of its contradictions: the resources of the Universe are not unlimited, starting with the natural death of stars and the depletion of energy resources of planets, therefore, “people” will inevitably face the question of the evolutionary nature of energy to obtain it in practice <2.3 billion Earth years>;
- The stage of theoretical understanding of the evolutionary nature of energy with access to the problem of artificial energy production in interaction with anti-universes (in mirror symmetry with the stage of the emergence of protons and neutrons with complete burnout in the antimatter Universe). Presumably, this will be a three-phase and nine-stage stage of penetration into the world of high temperatures and establishing informational contact with the anti-universe (most likely, based on the fluxes of electrons and positrons, the simplest fermions and antifermions that can exist both in energy conditions and in conditions of hypothetical anti-energy) <0.1 billion earth years>.

– A macro-stage of harmonization of inanimate matter to the secondary feasible removal of contradictions between its ontological opposites:

- The theoretical practical energy production stage in interaction with the “people” of anti-universes (in mirror symmetry with the stage of the emergence and annihilation of protons and neutrons with antiprotons and antineutrons). Presumably, this will also be a three-phase and nine-stage stage (according to the three pairs of gravitational-inertial, electromagnetic /+ and –/ and nuclear /strong and weak/) interactions in informational contact with the “people” of anti-universes <0.1 billion Earth years>.
- The stage of achieving reproducibility of universes and anti-universes (in mirror symmetry, the stage of harmonizing the regions of the Universe based on its resources) will presumably be carried out in three phases of setting up energy “furnaces” in the inner spheres of universes and anti-universes, arranging star-planetary systems in their middle parts and disposing of spent matter (antimatter) in their external spheres. This will be the most difficult (middle) stage of the outer universe harmonization of Existence in the context of the ongoing expansion of universes and anti-universes, which will make the problem of achieving their stationarity <2.3 billion Earth years> urgent;
- The stage of achieving stationarity of universes and anti-universes (mirror-symmetrical to the stage of contacts between humanistic and creative civilizations of the Universe) consists in achieving optimal density and maximum sizes of universes and anti-universes, ensuring their stationarity (similar to the minimum sizes and stationarity of electrons and positrons).

Conclusion

Thus, the meaning of the mega-stage of the evolution of Being can be expressed even more briefly. The meaning of the mega-stage of the evolution of Being is that, according to the laws of dialectics, the evolution of objects of inanimate matter is carried out, the result of which is to create conditions for the emergence of subjects of living matter and, most importantly, the evolution of their consciousness. The achievement of the qualitative limit of consciousness of living matter (the stability of reproduction of the unity of objective values in the minds of all “people” of mature age) unfolds evolution in the direction of gradual harmonization of Being: both living and inanimate matter (anti-matter) (also based on the laws of dialectics, according to the program of evolutionarily formed not only theoretical, but also aesthetic thinking as a full-fledged application of the bipolarity of emotional perception to all objects and phenomena of Being /being and consciousness /).

The human brain is the pinnacle of the evolution of Existence. It is able to reproduce itself, adapt to the temporary inconsistency of social evolution (with an adaptive degree of aggressiveness), and then become the basis for the harmonization of Being, mirror-symmetrical to its entry into the culmination of inconsistency. Harmonization has its limits.

Thus, full-fledged Harmony is achieved only at the top of the evolutionary pyramid - in the minds of mature people after passing through two macro-stages of social evolution, and therefore in their humanistic-creative (entirely harmonious) relationships.

At the biological level, the problem of life and death will remain practically unsolvable for humans. No matter how people learn to prolong their individual lives, for example, for centuries, they will remain mortal and simultaneously (at a high level of culture) aimed at transferring cultural experience to new generations. As for the harmonization of animal life, we are talking about relative harmonization depending on their evolutionary level, where people will multiply the number and quality of life than animals (significantly higher), continuing to receive industrial benefits from them.

As for cosmological problems, they will forever remain harsh for people, relatively overcome by the growth of space technology. Therefore, concerning the natural and exact sciences, we are talking only about “feasible” harmonization aimed at the benefit of humans and, to a large extent, (mainly higher) animals. In dealing with the astrophysical world, heroic thinking will always be in demand in people’s minds, requiring people to perform feats at the risk of their lives. Therefore, not only non-pragmatic scientific thinking will continue to disintegrate into contradictory empirical and theoretical thinking, but also non-pragmatic value thinking will always disintegrate into aesthetic and heroic, with the elimination of the latter only within social relations in adulthood.

Finally, it is possible to speak most briefly about the goal of the mega-stage of the evolution of Being – to replace a once-contradictory phylogeny (and there can be no other phylogeny as “self-development”) with a once-achieved consistent (biological and, most importantly, cultural) ontogenesis, the organization of which for cultured people is the highest happiness in life guaranteed by evolution.

Conflict of interests

The author declares no conflict of interest.

References:

- Chediya, K. O. (2020). *The evolution of matter* (Vol. 1. Evolution of the biosphere). (In Russ.)
- Chediya, K. O. (2020). *The evolution of matter* (Vol. 2 Evolution of the noosphere). (In Russ.)
- Chediya, K. O. (2020). *The evolution of matter* (Vol. 3. Evolution of matter of the Universe (hypothesis)). (In Russ.)
- Chediya, K. O. (2020). *The evolution of matter* (Vol. 4. Mathematical model of the evolution of highly organized matter). (In Russ.)
- Chediya, K. O. (2020). *The evolution of matter* (Vol. 5. The Hypothesis of Everything). (In Russ.)
- Chediya, K. O. (2020). *The evolution of matter* (Vol. 6. Dialectics is the methodology of science). (In Russ.)
- Chediya, K. O. (2020). *The evolution of matter. Popular science presentation of the dialectical concept of the evolution of matter*. Tver: SFC-office Publishing House. (In Russ.)
- Panov, A. D. (2005). Completion of the planetary cycle of evolution? *Philosophical Sciences*, 3-4, 42-50. (In Russ.)
- Zhirumunsky, A. V., & Kuzmin, V. I. (1990). *Critical levels in the development of natural systems*. Leningrad: Nauka. (In Russ.)