

Section 7. Philosophy

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FROM METAPHYSICS TO PHYSICS

Abstract. The article discusses the existence of God (immaterial substance), how He creates the world of the living and non-living, and paradise. It answers some questions that seem to be metaphysical, on a physical level, in a way that is understandable to the average person. The article is written using, whenever possible, Occam's Razor. In some places, common knowledge concepts have not been referred to literature.

Keywords: God, immaterial substance, heaven, emergentism, point G, entropy, atom, solar system, Rutherford's step.

All living and non-living objects consist of three particles (at some level): proton, neutron and electron. According to the law of transition of quantitative changes into qualitative ones, from the emergence effect nature is transformed.

For a long time mankind has been concerned with some questions of human existence, as Michael Newton in his *Journey of Souls: Case Studies of Life Between Lives* [4, 75], writes: "our inflated egos hate to think of life as only temporary". One wants to continue to live as he or she has now lived, i.e., he or she is infinitely existent. A human being is a reasonable being. It knows, realises that death is gradually creeping up, i.e. there is an end of human existence in nature. Human being is so afraid of death that he/she is ready to accept any help to be saved, even in old age, when it is a physiological phenomenon. The fear of death compels a person to seek help from somewhere to be saved. And in this, religion comes to the rescue.

Religious interpretation of various phenomena of nature, helps us to think correctly and make correct conclusions, i.e. religion itself prompts and indicates how these problems are solved. I, therefore, in this article apply some of the interpretations of religious figures, in explaining some issues that are metaphysical to us.

I, in the *European Journal of Humanities and Social Sciences* 4–2019 page 105, article: *Reincarnation – etiology and genesis*, explained how reincarnation occurs from a materialistic point of view, based on the genetics of Mendel, the periodic law of chemical elements of Mendeleev, the Biosphere and Noosphere of Academician Vernadsky, Lenin's work "Materialism and Empiriocriticism". Based on these data we can say that the question of reincarnation is partially solved, why partially, because the article is covered only from the theoretical side, the laboratory proof remains. There are many examples of reincarnation, documented examples can be taken from

the data of Drs Ian Stevenson, Jim Tucker (employee of the Medical University of Virginia USA), and the data necessary for us are in the public domain. The frequent manifestation of reincarnation processes in Southeast Asia, mainly in India, I think should not surprise anyone. There have been cases where a murderer has been recognised from the words of a reincarnated child when he tells how he was killed and where he was thrown. How this happens is not clear to the common man, just referring to God is not necessary either. You just don't think that a person was burned after death and by consuming these ashes or cinders you can prove and show reincarnation on an experiment. It is more complicated, as it is written in the article: to extract an element X (while we do not know what kind of element), a transport protein (most likely this protein is connected with human germ cells) and an apparatus for reading.

For example: Words come out of a person's mouth, and these words are transmitted through the air to another person, and they understand what they are talking about. This is a normal exchange of words, concepts in everyday life. The average person understands the transmigration of the soul like this. The soul travels through the air (like words) and enters the body of another person, and it repeats the life history of another person who existed before. The reason for everything is that we have been fed all our lives, by all available mediums (television, radio, internet and others) the following: the soul separates from the body, and travels. It (the soul) must let itself know that it exists by signs (a plate falls or a musical instrument plays without any help).

The physical and mechanical movements that change our world only take place in our world, i.e. in the period of the living active human being.

In Europe and where mainly Christian religion is preached, reincarnation is rare or does not occur at all, in comparison with South-East Asia, it is connected with the fact that dead people are buried (according to my understanding) in coffins. The coffin prevents reincarnation.

According to the law of conservation of energy, information (events) should not disappear. The late appearance of information is influenced by the decomposition of the corpse, utilisation of the coffin by nature. And if it does not happen at all, if the coffin is made of strong material, I mean the utilisation of the coffin. Information disappears for a long time, if it appears, then very late, having no sense, very scanty data, not connected with each other, with fragments, which for reincarnation have no meaning, for that reason, information is fragments, even to say about transmigration of souls is doubtful.

Reincarnation is when information is systematic, some whole case is described, connected with each other.

The mentioned periods of human existence in nature (figure 1), they are not voids, they are periods of course of existence. Each period has its own characteristics, each period is unique, it is not duplicated, it flows in its own way. It is a natural process. We, being in the period of an active person, want to measure with our centimetres, stopwatches or thermometers, to explain those processes that take place in other periods, as they say, we enter a foreign monastery with our own charter. We want to adapt other periods to our period. We know that the period of intrauterine development, according to our standards, lasts nine months nine days nine hours approximately, the period of clinical death is about five – seven minutes, and the period of biological death is about fifteen – eighteen years. Fifteen – eighteen years, this is the time of decomposition, mixing with the earth and transmissible (through animals, vegetative), re-entry into the human body X (X) – atoms (today born child in 15–18 years, when he reaches puberty, begins to transfer from the period of biological death, through Schopenhauer's bridge, in the period of intrauterine development). So far science does not know what kind of an atom X is, maybe molybdenum, maybe calcium, maybe iron, ... ?

As it is said above, the period of biological death is not a void. If we refer to the materialistic

worldview, then according to materialists, death is the end point, the finish line, with it all ends, there is no other life. Meaning, a life as it is now. They (materialists) are right. Matter does not disappear (while immaterial substance condenses the void, figure 4), but life as it is now ceases. And religious figures on the contrary, after death, bodily life ends, the soul separates from the body, **another life** begins. The soul is immortal. Of course, if matter **does not disappear**, then the soul is **immortal** (also does not disappear). This goes without saying (matter is the medium, soul is energy or information). If you take it that way, both worldviews are right. Matter and consciousness, these are the two halves of the whole, the carrier and the information.

Another life begins. With this religious figures tell, their lifetime concepts, as **life**, the word life is applicable only in this life, it is a word from the vocabulary of our life, the period of active man. Look at the four periods themselves, are they similar to each other? We know that in the period of active man the relations between people are bodily, more precisely, relations by the five sense organs and verbal.

Science knows that after birth, millions of nerve cells die.

Why?

Is it because their nutrition is disturbed or because they're oxygen starved?

Because these nerve cells have worked out their functions in the intrauterine period, in the period of an active human being a person does not need these functions. This means that if a human being has so many nerve cells in the intrauterine period, they functioned, nature does not tolerate unnecessary things, it turns out that these nerve cells functioned in the intrauterine period.

In the period of intrauterine development, organs and their functions are fully formed. You can see on the ultrasound – formation, movement, growth, i.e. a whole life. And plus there are so many functioning nerve cells, which in an average adult do not function, so we say that they died after birth. These nerve

cells had a function in the antenatal period, if any. Science does not yet know why they lost (not died, but hibernated) their function after birth.

In the active human period, the person will try to awaken, reactivate these nerve cells by means of knowledge, or they are aroused unexpectedly, suddenly, through clinical death. When entering clinical death, a strong brainstorm occurs, neurons previously at rest begin to refunction, i.e. sleeping nerve cells-wake up". In case of timely withdrawal from clinical death in the period of an active person, these neurons do not lose their functions as after childbirth. Because at this time functioning neurons (which functioned during the period of active person) do not need to adapt to new conditions by accumulating energy at the expense of other neurons, these are not new circumstances for them. Therefore, there is no limitation for awakened neurons to function. Therefore, reactivated neurons begin to function.

Some people, not knowing what is going on in other periods, apply the concepts of our period. They say: in the other world, on the other side, and they also apply such words as movement, pleasure, enjoyment and others, which are characteristic only for our period. Consciously, we reassure ourselves with the other world, we will live there too as in the period of an active person, we want to deceive ourselves, to reassure ourselves. Then, let's make those who are in the period of intrauterine development live as in our period, the period of active man. It is not reasonable, is it not? They want to prolong physical life with this, like in the period of active man. They don't want to go to the next period. If they do, they want life as in the period of active man. They don't want to recognise where we have transferred from (the period of intrauterine development). Each period has a limited time, it is legal, this process cannot be stopped (even if you don't drink the elixir of immortality, this period will end and another period will begin, otherwise the cycle will be broken).

When you are told: in the other world there is heaven, where it is good, and there is hell, where it is bad. An average person, when he hears this, or he

knows it from childhood, he, of course, wants to go to paradise, where it will be good for him, with all kinds of conditions of existence. On the basis of these questions arise:

- What is heaven, hell?
- Is there heaven and hell?
- If there is, where are they located, perhaps they are in deep space (“Kingdom of Heaven”)?
- Did God create man from clay or from ash?

As the article progresses, I will refer to the diagram, Figure 1.

We know that there is heat and there is no cold. There is light and there is no darkness. I would also add here, there is heaven (love) and there is no hell. Cold, darkness and hell, these are voids, i.e. not subject to investigation.

What does not exist cannot be measured, so it cannot be investigated.

Heaven exists.

If there is, what is it?

A house, a meadow?

And where is this paradise located?

According to religious notions, paradise is at the feet of mothers, respecting your mother – you will get to paradise. Religious figures: paradise is such a place where a sinless person does not need anything,

lives and enjoys life endlessly, he does not eat himself, God feeds him, even to do natural necessities, God does it for you.

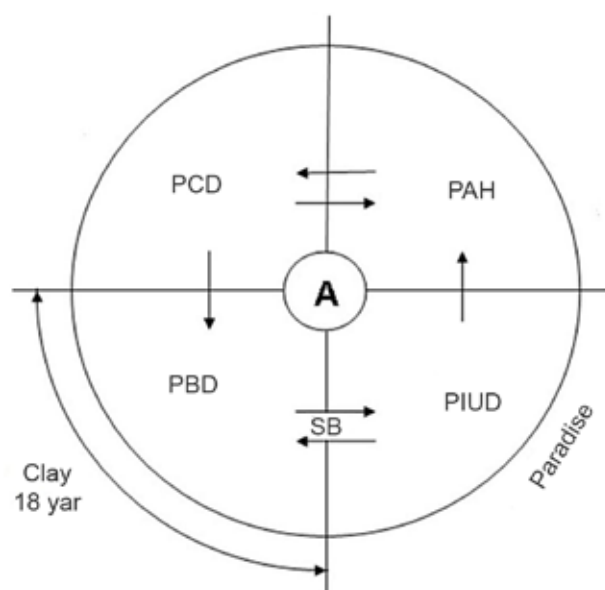
How wonderful it is to live in paradise!

Live and rejoice, God does everything for you, and you rejoice in life. It turns out that there is such a place in this life, below I will show you where this place is.

God created man out of clay and put him in Paradise and breathed a soul into him, and man came to life.

If you listen to their poems or stories and think deeply about them, they speak the truth, but they do not know how to convey this truth to the common man.

The diagram shows that the period of biological death is the decomposition of the human body and mixing with the earth. According to the data in the Biosphere and Noosphere book. [1, 22] by academician Vernadsky the human body after death decomposes into atoms and mixes with the earth. According to the diagram, the period of biological death passes into the period of intrauterine development and back through the Schopenhauer Bridge, A. Schopenhauer: The World as Will and Representation, paragraph On death and its relation to the indestructibility of our essence in itself [6, 12]. This bridge connects the beings of the obsolete self and the new, revived self.



A – deoxyribonucleic acid,
PIUD – period of intrauterine development,
PAH – period of active human,
PCD – period of clinical death,
PBD – period of biological death,
SB – Schopenhauer Bridge

Figure 1.

According to the diagram, God (nature, the Universe), still creates man out of clay. When they say, God created man from clay, it should not be understood literally. The period of biological death, it is clay, ashes, ashes with X atoms. From clay (according to the diagram) through Schopenhauer's bridge is transferred from the period of biological death to the intrauterine period (paradise). The description of paradise, completely corresponds with the intrauterine period: location (at the feet of mothers), conditions, nutrition and others. I think that religious people will not oppose themselves. Here, it does not coincide with the fact that religious figures say that life in paradise is infinite in time. The diagram shows that life in paradise has a time limit.

In search of paradise in the universe ("Kingdom of Heaven"), take, for example, the Americans in 1977, sent into deep space two research vehicles: Voyager 1 and 2. They are currently outside the heliosphere. Voyager – 2 crossed the boundaries of the heliosphere in 2018, 40 years after leaving the earth, but no paradise ("Kingdom of Heaven") was seen. They keep flying, as far as the fuel can be exhausted (if there is enough fuel, but still they will collapse from the weakening force of the immaterial substance, Figure 4).

What is their task, to find paradise or God? Theoretically, there is neither heaven nor God.

In 1911 English scientist Ernest Rutherford published his discovery, the planetary model of atom, more precisely nuclear, and the planetary model was discovered by Bohr in 1913. Rutherford with the help of alpha particle (the nucleus of helium atom) bombarded thin gilded foil (I think, details are not required), and according to the results of the experiment announced to the whole world that the structure of the atom, corresponds to the structure of the solar system. There's a positively charged nucleus in the centre and negatively charged electrons on the periphery. The nucleus makes up the bulk of the mass of the atom.

If we rely on the laws of physics: discovery by E. Rutherford (planetary model of the atom), I. Newton (law of universal gravitation) and Charles-Augustin de Coulomb (law describing the force of interaction between stationary point electric charges depending on the distance between them), we can determine what Voyagers will soon discover.

To date, no one has refuted the planetary model of the atom, still taught in school. The structure of the atom is like the structure of the solar system. There's the nucleus at the centre, there's the sun. There's electrons round the nucleus, there's the planets. Let's go from the atom to the solar system: the atom is within or makes up (as I said at the beginning, we are made up of three particles: proton, neutron and electron) a molecule, and the molecule is bodies, things. The body is the planet earth, which makes up the solar system, and we come again to the same repetition.

Therefore, in order to be clear for further research and not to get lost in the vastness of the Universe, we need to define the **structural and functional unit of the Universe, and systematised, introduced the concept of Rutherford's Step**, because He was the first to discover the structure of the atom, made a step inside the atom.

To make it clear to the reader, I named the distance, from the atom to the solar system, as the **Rutherford's Step**.

As the **cell** is the structural and functional unit of all living things, **the Rutherford's Step is the structural and functional unit of the Universe**.

The Rutherford's step consists of three steps:

- 0 – step, this is the atomic (in which we are).
- 1 – step, it is – crystalline – molecular (where voyagers are now).
- 2 – stage, it is corporeal-material.

Where Voyagers fly, I think it is clear.

Now Voyagers have left the limits of the solar system (let's take the solar system as a macro atom to make it clear to the reader), they are in the interstellar space (macro interatomic or in a macro molecule),

i.e. they have left the 0-stage and entered the 1-stage of Rutherford's step. From this it follows that we, our

Universe, is in the composition of some macro being or macro thing.

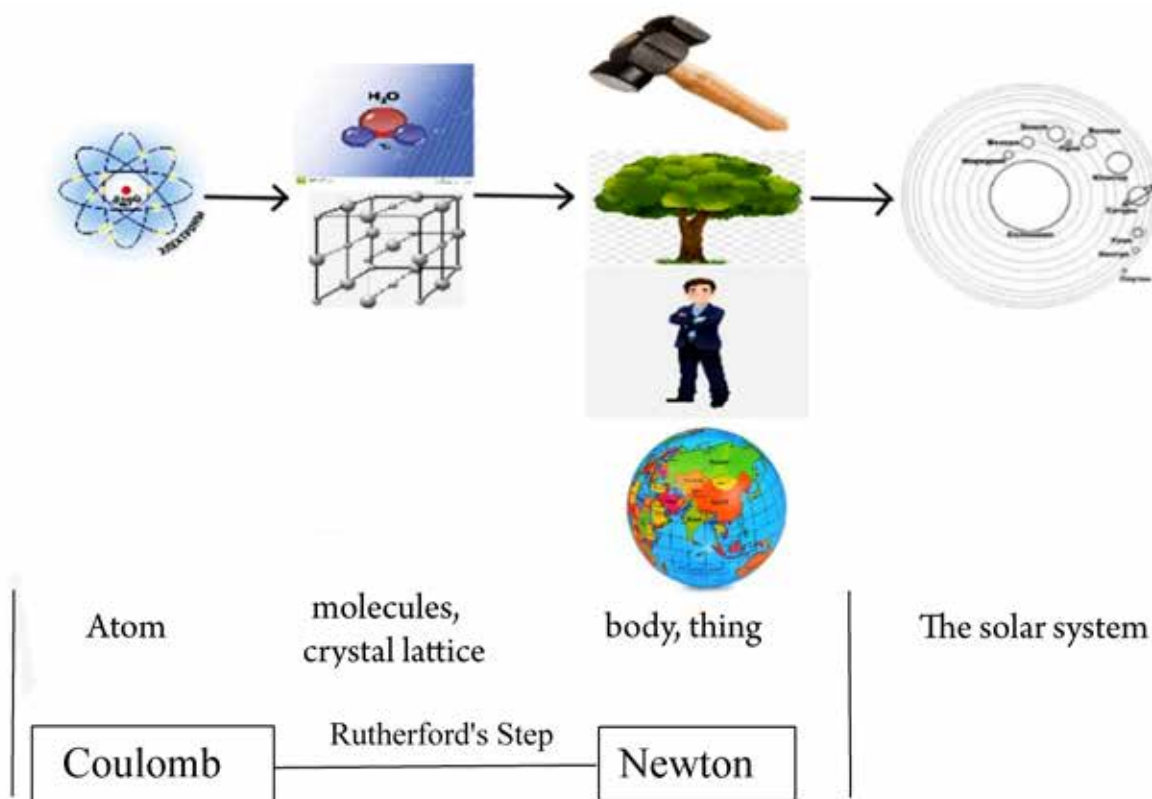


Figure 2.

Russian scientist Tsiolkovsky writes, noted in the work “Tsiolkovsky” philosopher V. N. Demin [7, 14]: “Everything is generated by the Universe. It is the beginning of all things, everything depends on it. Man or other higher beings and his will are only manifestations of the will of the Universe. No being can manifest absolute will... We say: everything depends on us, but we ourselves are the creatures of the Universe. Therefore, it is more correct to think and say that everything depends on the Universe... If we manage to fulfil our will, it is only because the Universe has allowed us to do so... Not a single atom of the Universe escapes the sensations of the higher intelligent life”. Man is a microcosm. As A. Schopenhauer argued, “the world is a macroanthropos” or “the Cosmos is a mega-human being”. Maybe we are in the organism of some creature, for example, haemoglobin (a pro-

tein in blood) of some creature, then do not expect an answer from voyagers soon. As voyagers leave the composition of mega thing (macroanthropos, according to A. Schopenhauer), they go to the surface of mega (another, we can say above us) system, like our solar system (like our air space warmed by the rays of the sun) then we can say that voyagers have overcome Rutherford's step.

We do not hear and see what is below, we are unable to reach those above.

In the Universe the whole system is built spirally, i.e. structural units repeat themselves. The law of quantitative changes into qualitative ones and the effect of emergence works.

From the above, there is no paradise up there. The truth is near!!!

On the basis of Figure 2, let's draw a diagram, it is Figure 3. Explanation below.

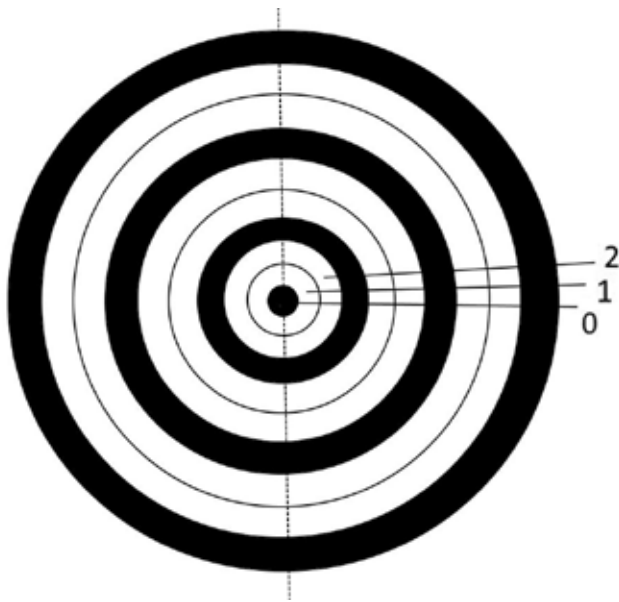


Figure 3.

In this diagram, 0, 1, 2 are the explanations at the top where Rutherford's step.

In the writings of V. I. Ulyanov (Lenin) Materialism and Empiriocriticism there is a chapter “**matter has disappeared**”, [3, 280]. Here it is pointed out that matter does not disappear, but passes to smaller forms, to microparticles, as the world's physics scientists prove to us. He writes, “Matter disappears” – this means that the limit to which we have known matter up to now disappears, our knowledge goes deeper; such properties of matter disappear which seemed before to be absolute, unchanging, original (impenetrability, inertia, mass, etc.) and which are now revealed as relative, inherent only in certain states of matter.

To be convinced of this further let us look, deeper into the atom. In figure 3 there is a dotted line down the middle, and if we cut along this line we get figure 4. In figure 4 we can see that the figure tapers downwards in a funnel-like fashion. Eventually the bottom end of the funnel will dock where **point G** is. They dock when there is nothing left to form, i.e. matter disappears, nothing will form the shape of the funnel. Matter disappears, there is immaterial substance further on.

Immaterial substance creates matter. Here one cannot help recalling the words of the great scientist **Albert Einstein**: Everything consists of emptiness, form is condensed emptiness. To condense emptiness and keep it in a constantly condensed form, such a huge force is necessary. As long as this force (immaterial) is active, emptiness is in a condensed state and holds the form. I will not refer to literature, and so everyone knows very well that God created the world in six days, it is in the translation of the Bible into Russian. It is not six days, but six steps of development of the Universe, more precisely six steps of Rutherford down in figure 4. If so, I cannot imagine what force and what constant it is.

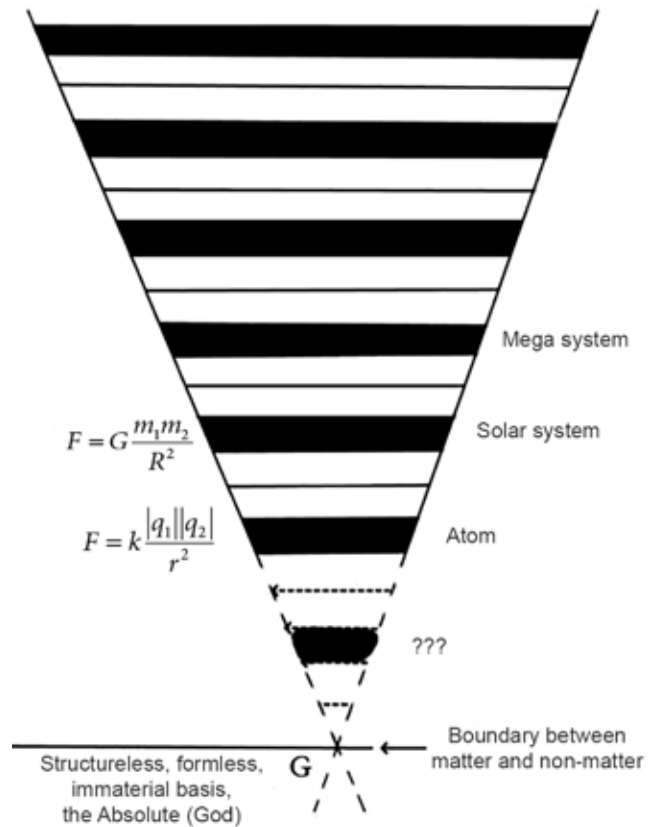


Figure 4

Candidate of historical sciences Bronislava Borisovna Vits in her article “Democritus” writes, I will directly copy [2, 9–10]:

According to Democritus, the existence of innumerable atomic forms causes an infinite variety of

directions and speeds of primary motions of atoms, and this in turn leads them to meetings and collisions. Thus, all world-formation is deterministic and is a natural consequence of the eternal motion of matter.

The Ionian philosophers already spoke about eternal motion. However, this view was still connected with hylozoism. The world is in perpetual motion, for in their understanding it is a living being. Democritus solves the question quite differently. His atoms are not animated (soul atoms are them only in connection with the animal or human body). Perpetual motion is the collision, repulsion, coupling, separation, moving and falling of atoms caused by the original vortex. More to the point, atoms have their own, primary motion, not caused by pushing: “shake in all directions” or “vibrate” (see *ibid.*, comment to 311). The latter notion was not developed; it was not noticed by Epicurus when he corrected Democritus’ theory of the motion of atoms by introducing the arbitrary deviation of atoms from a straight line.

Cosmogony and cosmology. “Ananke”.

Aristophanes’ “Clouds” contains the following lines:

Strepsiades

Who drives them towards each other, tell me?

Is it not Zeus, who shakes the clouds?

Socrates

It is not Zeus at all. It is the Vortex.

Strepsiades.

Oh, well! The vortex, then. I did not know, that Zeus had retired and the vortex was now in his place.

Ruling the universe.

On the basis of observations and, perhaps, philosophical reinterpretation of the traditional mythological idea of the original “chaos” Leucippus came to his remarkable hypothesis, one of the most fruitful ideas of antiquity about the “vortex” (dinos) of atoms – the initial state and driving force of the origin of the cosmos. Democritus, having

discarded the doctrine of the forces driving matter (“Love” and “Strife” in Empedocles, Mind – “Nous” in Anaxagoras), fully accepted and further developed the concept of Leucippus. The scholarly commentator of Aristotle Philoponus (beginning of the 6th century A.D.) gives us the following definition of a whirlwind: a whirlwind is “such a movement (of elements), as a result of which they separate from each other” [13, 288]. Ancient authors give a number of descriptions of the emergence of the world from the vortex of atoms [see 13, 288–300], which, “colliding with each other and whirling in every possible way... are distributed in separate places – like to like” [13, 289]; “everything is born by the cohesion and coupling (epallaxis) of these primordial bodies” [13, 292].

Based on the atomistic theory, Democritus draws a grand cosmogonic hypothesis. Vortex-like motion, according to Democritus, was the cause of the formation of our world, and this world, now in its prime, is subject to the natural laws of the universe. In the process of vortex motion the qualitative differentiation of matter was realised. As a result of the law of attraction of like with like, atoms, more or less homogeneous in form, united together, the earth and the celestial luminaries arose, incandescent from the rapidity of motion. But the same law had the opposite effect; dissimilar atoms repelled each other [see 13, 318; 320; 323; 382]. Hence, the processes of attraction and repulsion led to the formation of the entire world around us.

Everything that happens in the world, according to Democritus, is not subject to a supernatural force, but only to the law of necessity (ananke, to anankaion). Democritus understood necessity as an endless chain of cause-and-effect relationships. He was not looking for the root cause of the world – he denied it. But he was constantly looking for the causal basis of all temporal phenomena. This is evident from the titles of a whole series of his works: “Celestial Causes”; “Air Causes”; “Terrestrial Causes”; “Causes of Fire and What is in Fire”; “Causes of Sounds”;

“Causes of Seeds, Plants and Fruits”; “Causes of Living Things”; “Mixed Causes”. In the composition of technical writings, “Causes of the Favourable and Unfavourable”, and in the ethical notes, “Causes of Laws” [see 13, CXV].

Here the word about the Vortex is recalled, Strepisades says, nowadays it is not Zeus but the Vortex that rules. If we comprehend these words more deeply, of course, it is not the Vortex that governs, but Zeus (God, the Immaterial Substance), the Vortex is the consequence. The question is, how is the Vortex created, where does the Wind” blow from? You can see from Figure 4 that in the atom the interaction of charged particles occurs according to Coulomb’s law.

$$F = k \frac{|q_1||q_2|}{r^2}, \quad k = 9 \times 10^9 \frac{N \times m^2}{C^2}.$$

And in the solar system (macro atom), celestial bodies according to the law of universal gravitation, the fourth law of Newton.

$$F = G \frac{m_1 m_2}{R^2}$$

$$G = 6.67 \times 10^{-11} \frac{N \times m^2}{kg^2}$$

From this we can see that moving away from point **G** (in figure 4) the force of the wind” weakens, see the difference in constants. From Coulomb to Newton the Vortex weakens, and further will weaken. Here involuntarily recalls the concept: **the entropy**. German scientist Rudolf Clausius in 1865 wrote about the heat death of the Universe, i.e. with time all energy is lost in the form of heat and finally the Universe passes into a state of rest.???. Then the **Prime Mover, God (immaterial substance)** also goes to rest? The immaterial substance keeps the void in a condensed state all the time. If we look carefully at figure 4, the force of the “Wind” upwards from point **G** weakens, i.e. entropy is constant, but the force of “the Wind” is also constant, stable, because of which it keeps the void in a condensed state, so the constants do not change with time. **Therefore, it implies that matter without “Wind”, created from immaterial**

substance, is not able to form and move independently. Immaterial substance creates “Wind”, as a result of which Vortex is formed, and in its turn creates form and movement.

“Wind” from the side of the Immaterial Substance spreads in a wave-like manner, speed and frequency.

Thomas Aquinas in his proof of God: everything is moving around, and the prime mover is God (you know, it is impossible to create a material, Eternal engine).

Here it should be noted that religious people, when they recite namaz or pray to God, they want to get into this wave with their vocal movements. And by this they tune their organism to the rhythm, the wave of God (Universe), but nobody knows what frequency and speed this wave spreads. Some religious figures say to pray slowly, calmly, and some recommend to pray quickly.

Prayer is an act, by means of this act we adjust our organism, make our rhythm of life or soul available to the action of God (Universe). If these actions, i.e. namaz or prayer, correspond to the frequency of the waves that emanate from the immaterial substance (God), then one lives in harmony with the Universe.

How living matter originates from non-living matter is I think a wrong concept. Above I pointed out that everything is caused by atom X. Academician Vernadsky writes about it in the book Biosphere and Noosphere noted in the work “Life, Death, Immortality” in the paragraph “Two syntheses of the cosmos” scientist R. K. Balandin [5, 3]. Democritus of Abdera also wrote about spherical atoms carrying the soul, and I pointed out in the article “Reincarnation – etiology, genesis” about an atom X as a carrier of information. Living and non-living matter appeared simultaneously, i.e. inanimate and atoms X. Here the main thing is that everything is caused by immaterial substance (God), and then the Theory of Evolution (Origin of Species) of C. Darwin works. In this article, based on the laws of physics, I touched only on the quantitative sides of the ques-

tions. This is the end of the article under the title of Representation, though the will is weak (a practising A. Schopenhauer's treatise 'The World as Will and doctor), but the representation is outlined.

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