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Neocartesian Worldview

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ABSTRACT

The Neo-Cartesian worldview generalizes modern physics. This worldview is based on Descartes' identity of space and matter. According to this identity, space is matter, and matter is space, the fragments of which move relative to each other at a speed no greater than the speed of light. Explaining the equivalence of mass and energy by the existence of a flow of force on each corpuscle from the space of the Universe, the neo-Cartesian worldview creates a new paradigm in scientific knowledge aimed at overcoming the existing crisis in physics, namely at turning it into a unified theory that studies both micro- and macrophenomena.

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A Small Apocrypha Instead of a Preface

In the beginning and always, before and after, there was a sky without end and edge. And this sky was, is and will be the body of the omnipresent God, since everything in Him, big and small, moves beyond the edge into darkness, and the darkness follows Him and He returns to crush, envelop and hide it inside Himself along with the end and edge. The presence of fragmented darkness in Him made Him active and life-giving. The fight against darkness revealed His Light and created the world of the Universe, in which every moment is the end of the old World and the beginning of a new one, and there is no place in this world where He would not be. And in Him, from His life-giving body, an infinite world was created in its eternal circular motion, representing the continuous dying of the old and the birth of the new, returning to normal in a different form. The expectation of a new Light was the essence of existence in it.

And He created a place where creatures, great and small, were created in Him from His life-giving body, and He allowed each creature in pairs to create their own kind, so that with their eyes and ears they could see and feel the world He created from His Body. And each pair of creatures began to give birth to their own kind in their own circles in order to continue their race in His body, and in this circle, man was created with his pair and the human race went from him in His body.

And He gave people the Word that was in Him, so that they would understand His plan, see the light of communication in Him, could turn to Him, and keep His past in their memory and could imagine His future. But the devil penetrated His Word with His word and covered His Light with darkness so that they would not see His path to the truth.

And life was revealed to humanity in His body together with the devil, and they saw the place of their existence, which they called space. And they did not want to admit that this is His body, in order to believe that they exist and create only according to their will. And people began to look for Him in the darkness and see the devil in His form in everything, and worship everything in order to supposedly make their existence in His body easier.

And they came up with the idea of calling His body matter, supposedly existing in space separately from Him, and their existence in anticipation of a new world - time. The devil persuaded them to believe that they do not exist in God, but in space, and do not move in Him, but exist in time.

Space-Matter

A person comes to understand the existence of a single substantial body at the basis of natural diversity along with his ability to understand something in this world and not slide into mythology. Already the ancient Greek philosophers, under different names, had a speculative idea of what is now called matter. However, the concept of matter is very often replaced by the broader concept of substance. So, for example, in classical physics and general chemistry, matter is any substance that has mass and occupies space, having volume, i.e., all objects that can be touched directly or indirectly by auxiliary devices are ultimately made of matter. Along with this came the understanding of the need to have a measure of the amount of matter in a substance. For a long time, such a measure was the mass of an object proportional to its volume. However, after the formula for the equivalence of mass and energy was identified, it began to be mainly a measure of the movement of matter in a substance, and not its quantity. For this reason, they began to talk about the disappearance of matter as a substance common to all bodies and to emphasize that energy is the basis of all bodies. Thus, of the two factors identifying matter as a substance common to all bodies, only one remains - this is the volume of space of the body. And here we come to the identity of

space and matter of Descartes, according to which space is matter, and matter is space. If there is no matter, there is no space, and if there is no space, then there is no matter. And since the amount of matter is measured by the volume of space, then, obviously, there will be as much matter in an empty container as if it were filled with some liquid. In everyday life, a person does not need to think that he lives in a certain environment, like a fish in water. However, in the theoretical knowledge of the surrounding world, if a person does not recognize that space is matter, he will have a feeling of incoherence of surrounding objects and phenomena, which will lead to a crisis in his theories due to the replacement of matter with various mathematical abstractions.

Matter is an objective existence that we begin to recognize as space when we gain the opportunity to move physically and mentally in the real world, i.e., space is matter, and matter is space, the fragments of which move relative to each other. It is matter that creates space and time.

Our brain creates the image of the real world not inside itself, but around itself, i.e., in space, which is matter. Thanks to this, we fit seamlessly into the outside world and feel its influence as a matter of course. Space is matter, but not yet substance. To become a substance, a fragment of space repeatedly enhances its materiality by its rotation in one place and, standing out from it, becomes a tangible object for us, despite the fact that we ourselves and everything around us consist of this substance.

Law of Conservation of Space

The materialism of classical physics allowed it to formulate Conservation Laws, such as the Law of Conservation of Mass, the Law of Conservation of Energy, the Law of Conservation of Angular Momentum, etc. However, classical physics lost sight of the main Law underlying all these listed Laws of Conservation - this is the Law of Conservation of space (matter) itself. According to this Law, the area of a fragment of space before displacement is equal to its area after rotations and displacements, i.e. its dimensions change in a manner proportional to each other. As M.V. said Lomonosov: "All changes that occur in nature occur in such a way that how much is added to something, the same amount is taken away from another." In our case, if the width of a fragment of space decreases, for example, by half, then its length doubles, but in general the area of the fragment does not change.

The law of conservation of space (matter) allows us to state at the legislative level that if its fragments move, they do so in a circular or oscillatory manner, since only such movement allows them to return and preserve the common space, and not fly into oblivion.

Another Law from this series is Kepler's Second Law: "Each planet moves in a plane passing through the center of the Sun, and in equal periods of time, the radius vector connecting the Sun and the planet describes equal areas." This Law becomes more understandable if we keep in mind that the entire circumsolar space revolves around the Sun, and the radius vector indicates to us the change in the remaining fragment of space. Here we see that the Law of Conservation of Space (matter) makes it possible to evaluate the entire set of changes that have occurred in space by a measure called time.

Using simple arithmetic operations, from two parameters: time and linear dimensions of the amount of matter, you can create expressions that correspond to certain processes in nature. So, for example, a cubic meter per second will correspond to the current (consumption) of space or its charge, a cubic meter per second per second is the acceleration of the movement of space. In the table of the SYSTEMS OF DYNAMIC PHYSICAL QUANTITIES IN DIMENSION LT by the Russian scientist A.S. Chuev, the acceleration of space is called mass. Indeed, if a mass of 1 kg is multiplied by the gravitational constant G=6.67* 10 -11 m3 *kg-1*s-2, we obtain the value of the centripetal acceleration of space corresponding to this mass equal to 6.67* 10 -11 m3 *s- 2. This means that the gravitational constant is a coefficient for the transition from a measurement system compiled on the basis of empirical standard units to a system of dynamic physical quantities in the LT dimension of the Russian scientist A.S. Chuev. The transition to this measurement system will make it possible to more clearly imagine the essence of physical processes and give them clarity that prevents them from falling into cognitive dissonance. Now it is necessary to show how space, as a result of the movement of its fragments, becomes matter, substance and antimatter.