

The Unique Constant of Nature

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In this article, the author shows that the basis of the universe is one constant dimensionless quantity. Everything in nature is connected with this constant. The author proposes a materialistic YRA - a model of the universe, the foundations of nature, the structure and algorithm of the evolution of the Universe. In the foundations of nature there is only one this constant. And the diversity of the foundations of nature is linked together by this one-of-a-kind nature constant. This is a unique constant of nature, the Universe. We can say that this is the magic constant of the Universe. But do not fall into mysticism, believe in magic, indulge in exoteric or esotericism and preach idealism. The origin and magnitude of this constant find their simple and natural explanation in material nature.

The author of this article is a dialectical materialist and in his studies of nature, relied on the provisions of dialectical materialism, set forth in the writings of the classics of Marxism-Leninism, Soviet and Marxist philosophers [1, 2, 3].

I will quote one leading contemporary American theoretical physicist Lee Smolin:

"... For all its usefulness, the standard model has a big problem. It has a long list of adjustable constants. When we establish the laws of theory, we must determine the values of these constants. As far as we know, any quantities can be used, since the theory is mathematically consistent regardless of what quantities we insert into it. These constants determine the properties of particles. Some tell us about the masses of quarks and leptons, others tell us about

the magnitude of the forces. We have no idea why these numbers have the value they have, we just define them through experiments, and then substitute the numbers in the theory. If you think of the standard model as a calculator, the constants will be input numbers, such that there can be a set of any positions that you like every time the program is run.

There are about twenty such constants, and the fact that there are so many freely defined constants that must be substituted in the fundamental theory is a terrible embarrassment. Each constant represents a fundamental fact that we ignore: namely, the physical mechanism or the bases responsible for choosing a constant in its observable magnitude ... "[4].

Although Lee Smolin mentions here the standard model of elementary particles and fundamental interactions, this remark applies to the whole theory of modern physics (TMF).

In the theory of modern physics (TMP) there are constants, for example, such fundamental physical quantities as

The speed of light in a vacuum

$$c = 299\,792\,458 \text{ m s}^{-1},$$

Gravitational constant of Newton

$$G = 6,67408 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2},$$

Elementary electric charge

$$e = 1,602\,176\,6208 \times 10^{-19} \text{ C}.$$

Fine structure constant

$$\alpha = 7,297\,352\,5664 \times 10^{-3},$$

The Planck constant

$$h = 6.626\,068\,96(33) \times 10^{-34} \text{ J s.}$$

Constants are also (are assumed to be), the following physical quantities:

the unit of length in SI is 1 meter (1 m),

the unit of mass in SI is 1 kilogram (1 kg),

the unit of time in SI is 1 second (1 s).

The following physical quantities are also considered constant values:

the mass of the electron, proton, neutron, others elementary particles

and also a number of other physical quantities (PQ).

But in the theory of modern physics (TMP) there is no physical quantity of matter and there are no quantitative estimates of matter and, hence, there are no constants associated with matter.

The world around us we call nature. But nature is material. All things, objects, bodies in nature consist of matter. Matter is the basis, essence, the only substance of nature. Nature is an objective reality existing outside of our consciousness (will, desire) and regardless of our consciousness (will, desire). All material objects surrounding us, bodies exist in nature. Outside of nature, nothing exists. This is a materialistic understanding of nature.

In modern physics, people accept and adhere to the materialistic view of nature and the materialistic understanding of nature and its structure, set forth above.

But in fact matter in physics is not recognized and ignored, and in the modern physics there is no matter in the adequate nature of quality, matter is actually expelled from physics. Because of this, modern physics is an idealistic party discipline, a theory. Matter in the theory of modern physics (TMP) is not a core, basic, fundamental, key concept. Matter in modern physics is not the base (main) physical quantity. This is the main problem of modern physics.

Modern physics, by ignoring matter, by virtue of the fact that matter is not the base (main) physical quantity, science can neither be considered nor actually can be.

The adherence of the modern party of physicists to the philosophy of idealism, the following in the fairway of idealism excommunicate TMP from both truth and science. It should be recognized that TMP is fundamentally a false and non-scientific theory.

"Theory of Nature" (TP) Yusupov Robert puts matter in his rightful place in physics. Matter in the TP is introduced into the bosom of physics as the base (main) physical quantity. Physics becomes materialistic, breaks with "physical" idealism, returns to the position of materialism, becomes firmly on the platform of dialectical materialism and returns to the structure of natural sciences. "Theory of Nature" is a new materialistic physics and cosmology. The "Theory of Nature" is completely based on the scientific philosophy of dialectical materialism. Dialectical materialism is part of the general scientific Marxist-Leninist philosophy (MLF). MLF gives us a generalized true knowledge of nature. MLF is the only scientific philosophy. All other philosophies are fundamentally false and non-scientific theories, directions, teachings, views, schools. These are idealistic, tabloid, speculative philosophies. These are bourgeois philosophies. These are the philosophies which aim at justifying, praising and defending bourgeois values, the interests of the bourgeoisie and defending the bourgeois social order. This is the manifestation of the reactionary class essence of all modern bourgeois philosophies. We need to understand that all these are false and anti-scientific philosophical teachings and theories. In all bourgeois philosophies, the bourgeoisie's rate of lying and anti science is clearly and implicitly manifested.

Within the framework of the "Theory of Nature" two basic physical quantities are based on physics. First, it is matter. Secondly, it is a unique constant of nature $UCN = 1,21030 \times 10^{44}$.

$UCN = 1,21030 \times 10^{44}$. As the pioneer of this constant, I call it the constant of Yusupov

Robert. It should be noted that the value of this constant is given by the numerical value of the physical quantity $c^4 \times G^{-1}$. $c^4 \times G^{-1}$. In terms of its physical meaning, this quantity is Planck's strength.

An invariant of nature is the physical quantity (PQ) $I \times c^{-4} \times G$, where I is the physical quantity (PQ) of an elementary pulse (momentum of a crupitsa of matter).

The physical meaning of this invariant of nature is that it determines the duration of the minimum time in nature.

This physical quantity is expressed in units of time. In SI it's second. Here it takes place the equality $\{I\} = \alpha$, where α is the fine structure constant.

In fact, all nature is based on one constant. It is a unique constant of nature equal to **UCN = $1,21030 \times 10^{44}$** .

In the "Theory of Nature" is defined natural matter unit NUM. This is the universal unit of matter in nature (in the Universe). It is a unique and universal measure of everything in nature. This measure, as a unit of matter is called in the TP a merilo (new word!). Let its reduction be **mer⁴**.

The total amount of matter in the universe is **UCN NUM** or **UCN mer⁴**.

The time of existence of our universe is limited and finite. Its total amount is **UCN NUT** or **UCN mer⁴**. The value of NUT means the natural unit of time in nature.

Time and matter are so closely and organically connected among themselves in nature that when these properties of nature are reflected in the conceptual apparatus of physics (the new materialistic physics) they are homogeneous, identical physical quantities: **NUT \equiv NUM** .

It should be clarified that according to the "Theory of Nature" our Universe has a material center, which the author calls a Singularity in TN. Singularity strictly periodically in the rhythm of nature radiates matter in the outside into the surrounding emptiness (vacuum). This matter is the only "building blocks" for the Universe. In each natural step, cycle (NSN) of the rhythm of nature, the Singularity emits one natural unit of matter (NUM). The duration, duration of one natural step of the rhythm of nature is equal to one natural unit of time (NUT). Everything is simple and elementary in nature.

The natural unit of matter (NUM) after it is radiated by the Singularity (it is the center of the Universe) into the surrounding void (vacuum) breaks up into UCN quanta of matter. Each quantum of matter contains a minimal amount of matter in nature. This is the elementary unit of the matter (EUM). It take place the following equalities (identities):

$$\mathbf{EUM \equiv NUM/UCN \text{ or } EUM \equiv UCN^{-1} NUM \equiv UCN^{-1} mer^4.}$$

Similarly, the natural time unit (NUT) consists of UCN smaller elementary time units (EUT). Elementary time unit (EUT) is the minimum duration in nature. Similarly to matter and for the time it take place the following equations (identities):

$$\mathbf{EUT \equiv NUT/UCN \text{ or } EUT \equiv UCN^{-1} NUT \equiv UCN^{-1} mer^4.}$$

Since the total time of existence of the Universe is limited, of course, there was a time when the Universe was formed. In the distant future there will come a time when the Universe will end.

Hence, the universal time is the absolute time of nature, which has both a beginning and an end.

And the age of the universe is absolute age. The absolute time of the universe and the absolute age of the universe (**A**) can be counted in the natural time units NUT. This is dimension time.

Its dimension and its unit, according to the "Theory of Nature" will be:

$$\mathbf{dim A = mer^4, [A] = mer^4.}$$

Within the framework of the TN of the author, the concepts of dimension and unit of physical quantity are identified. At the same time in the theory of modern physics (TMP) they are different concepts.

But the absolute universal time can be taken into account the number of natural cycles (NSN) of the rhythm of nature or the number of natural units of matter (NUM). This will be a dimensionless time. But the significance of this dimensionless time (this is a numerical value) will be equal to the numerical value of the dimensional time counted in natural time units (NUT).

So, the Universe has its own age, it is an absolute age and it is always equal and coincides with absolute universal time.

According to the research and conclusions of the "Theory of Nature" there is a minimal elementary particle (EP) in nature. It is a crupitsa of matter (CM) . A crupitsa of matter is a minimal material body in nature. A crupitsa of matter, like all elementary particles (EP) has the form of a ball, a four-dimensional ball. All elementary particles (EP) are formed from quanta of matter. Quantum matter is a material flesh pulsating in the elementary (ESN) rhythm of nature.

Between the natural (NSN) rhythm of nature and the elementary (ESN) rhythm of nature, there is a simple relationship, expressed by the following equations (identities):

ESN \equiv NSN/UCN или NSN \equiv UCN ESN.

In words, one natural step, cycle (NSN) of the rhythm of nature consists of a sequence of UCN elementary steps (cycles) (ESN) of the rhythm of nature.

Quantum of matter forms an elementary particle. An elementary particle is also a pulsating material flesh. This pulsation also occurs strictly in the rhythm of nature, in the mode of the elementary (ESN) rhythm of nature. The lower limit (boundary) of pulsation of an elementary particle (EP) is a crupitsa of the matter. The upper limit (boundary) of the pulsation is the elementary particle (EP) itself. All elementary particles (EP) contain an equal amount of matter. This is the minimum amount of matter in nature (EUM). This is the elementary unit of the matter of nature. Matter into the elementary particle (EP) is the first main characteristic of the EP. The second main characteristic of the EP is its diameter. Each type of EP (neutrons, protons, electrons, etc.) has its own fixed diameter. Has its own diameter and a crupitsa of the matter (CM). This diameter is the minimum among all elementary particles (EP). According to the provisions and conclusions of the "Theory of Nature", the CM's diameter is the minimum length in nature (EUL) and is the standard of the natural length unit in nature. CM is also a material carrier of the minimum in nature amount of matter. In general, each crupitsa of the matter (CM) is a natural standard of the minimum amount of matter (EUM) and the minimum length (EUL) in nature. Each CM is a natural standard and a material carrier in the nature of these material (matter and length) characteristics.

Nature is material and nature is dialectical. According to the provisions and conclusions of the "Theory of Nature" a crupitsa of the matter (CM) decreases in diameter with time (with the age of the Universe). But the amount of matter in each crupitsa of the matter (this is EUM) remains unchanged throughout the evolution of the Universe.

In "Theory of Nature" the author established the dependence on the time (from the age of the Universe) the length of the diameter of the crupitsa of matter and hence the minimum length in nature (EUL). Suppose that the absolute time (and age) of the Universe is equal to the value of **A** and this value taken in the dimensionless units of NSN. Then the formula for the dependence of the minimum length (EUL) in nature on absolute universe time (the age of the Universe) will be follow:

$$\mathbf{EUL} \equiv \frac{\sqrt[4]{\mathbf{EUM}^3}}{\sqrt[8]{\mathbf{A}}} \equiv \mathbf{A}^{-0,125} \times \mathbf{EUM}^{0,75}.$$

This formula is also the determining formula for the physical length in the "Theory of Nature" (new materialistic physics). The physical quantity (PQ) of the length appears to be a derivative of the PQ of matter. It should be said that this formula was found as a result of the author's ingenious insight.

Let us write the defining identities for the elementary unit of matter (EUM):

$$\mathbf{EUM} \equiv \mathbf{UCN}^{-1} \mathbf{mer}^4 \quad (1)$$

and for the elementary unit of time (EUT) in nature:

$$\mathbf{EUT} \equiv \mathbf{UCN}^{-1} \mathbf{mer}^4. \quad (2)$$

Taking into account the defining identity (1) for the elementary unit of matter (EUM), we can represent the defining formula for the length in the form:

$$\mathbf{EUL} \equiv \mathbf{A}^{-0,125} \times \mathbf{UCN}^{-0,75} \mathbf{mer}^3. \quad (3)$$

So, we have two main characteristics (properties) of a crupitsa of matter. This is the matter forming the CM, and the diameter of the CM. These are the two basic properties of a crupitsa of matter. In physics, they are reflected in the form of two physical quantities (PQ) - elementary units of matter (EUM) and elementary units of length (EUL).

The defining formula of length (3) shows that the diameter of a crupitsa of matter, the same minimum length in nature is a diminishing with time value. We can specify the limiting value of this quantity, which is reached by the time of the completion of the evolution of the Universe, that is, at the time $A = UCN$. This value will be equal to:

$$EUL \equiv UCN^{-0,875} \text{ mer}^3. \quad (3')$$

But what about the mass of the crupitsa of matter because we know well that all material bodies have mass. In the theory of modern physics, there are no defining formulas for matter, for time, for length, or for mass. Matter in the idealistic theory of modern physics (TMP) is not a physical quantity at all, idealism does not miss it! And the other three physical quantities (PQ) mass, length and time are basic, independent and undetectable quantities. In the theory of modern physics only all possible explanations for their manifestations are given. The mass in the TMP is said in connection with the manifestation of inertial and gravitational properties of material bodies.

But how the mass is defined in the "Theory of Nature"? It is identically determined for a crupitsa of matter and for an elementary particle.

The defining formula for the mass (MAM) of the crupitsa of matter will be as follows:

$$MAM \equiv \frac{EUM}{EUL}.$$

It should be said that this formula was also found as a result of the author's brilliant insight. If we substitute in this formula the defining expressions for EUM and EUL, we obtain the following identity:

$$MAM \equiv A^{0,125} \times UCN^{-0,25} \text{ mer}. \quad (4)$$

The determining mass formula for CM (4) shows that the maximum mass of an elementary particle in the nature, which has a crupitsa of matter, is increasing with time. We can specify the limiting value of this quantity, which is reached by the time of the completion of the evolution of the universe, that is, at the time $\mathbf{A} = \mathbf{UCN}$. This value will be equal to:

$$\mathbf{MAM} \equiv \mathbf{UCN}^{-0,125} \mathbf{mer}. \quad (4')$$

We note that the values of the quantities in formulas (1) - (4) are given in the absolute system of units, in the system of units associated with the merilo (\mathbf{mer}^4).

Let's go further. For a physical quantity an elementary electric charge (EUC) (this is an electron charge) is given by the defining formula:

$$\mathbf{EUC} \equiv \sqrt{\mathbf{EUM}}.$$

If we substitute the defining expression for EUM into this formula, we obtain the following identity:

$$\mathbf{EUC} \equiv \mathbf{UCN}^{-0,5} \mathbf{mer}^2. \quad (5)$$

Details and the derivation of this formula should be looked at in "Theory of Nature." From the determining formula for the elementary electric charge, the electron charge (5), it is clear that this quantity does not depend on the universal time (the age of the Universe) and is a constant value. Elementary electric charge is the square root of physical quantity, the elementary unit of matter (EUM).

Let us now determine the physical quantity of maximum speed in nature (MVN):

$$\mathbf{MVN} \equiv \frac{\mathbf{EUL}}{\mathbf{EUT}}.$$

If we substitute in this formula the defining expressions for EUL (3) and EUT (2), we obtain the following defining identity:

$$\mathbf{MVN} \equiv \mathbf{A}^{-0,125} \times \mathbf{UCN}^{0,25} \mathbf{mer}^{-1}. \quad (6)$$

The determining formula for the maximum velocity in nature (5) shows that this quantity is a diminishing quantity with time. We can specify the limiting value of this quantity, which is reached by the time of the completion of the evolution of the universe, that is, at the time $\mathbf{A} = \mathbf{UCN}$. This value will be equal to:

$$\mathbf{MVN} \equiv \mathbf{UCN}^{0,125} \mathbf{mer}^{-1}. \quad (6')$$

Physical quantity of MVN for the modern era of the Universe is the speed of light in a vacuum, is its numerical value in SI. For complete and detailed proof, one should turn to the "Theory of Nature".

Let us now determine the physical quantity of the gravitational value of the universe (GVU):

$$\mathbf{GVU} \equiv \frac{\mathbf{EUL}^3}{\mathbf{MAM} \times \mathbf{EUT}^2}.$$

If in this formula substitute the defining expressions for EUL (3), MAM (4) and EUT (2), we obtain the following defining identity:

$$\mathbf{GVU} \equiv \sqrt{\mathbf{A}}. \quad (7)$$

In this formula \mathbf{A} is the universal dimensionless time in NSN units.

The determining formula for the gravitational magnitude of the Universe (7) shows that this quantity is a diminishing quantity with time. We can indicate the limiting value of this quantity, which is reached by the time the evolution of the Universe is complete, that is, at the time $\mathbf{A} = \mathbf{UCN}$. This value will be equal to:

$$\mathbf{GVU} \equiv \sqrt{\mathbf{UCN}} \equiv \mathbf{UCN}^{-0,5}. \quad (7')$$

Physical quantity of GVU for the modern era of the Universe is the gravitational constant of Newton (G) is its numerical value in SI. For complete and detailed proof, one should turn to the "Theory of Nature" of the author.

We note that from formula (7) follows a simple formula for determining the age of the universe and the current time of the universe:

$$\mathbf{A} \equiv \mathbf{GVU}^2.$$

The value of \mathbf{A} - the universal time (the age of the Universe) is represented by in this formula in units of NSN and is the dimensionless time.

For the modern era of the Universe, the formula for the universal time (and the age of the Universe) will be:

$$\mathbf{A} = \{\mathbf{G}\}^2.$$

Here \mathbf{G} is the numerical value of Newton's gravitational value in SI, and the age \mathbf{A} of the Universe is represented by a dimensionless quantity in NSN units or by the numbers of NUM emitted by the Singularity and received into the Universe. We are interested in knowing the modern age of the Universe in seconds. In the "Theory of Nature" is a formula for the relationship between time units in SI (this is a second) and in the absolute system of units, in the system of units "merilo" (this is NUT). This is the following link:

$$\mathbf{1\ NUT} \equiv \alpha \mathbf{s} \text{ or } \mathbf{1\ s} \equiv \alpha^{-1} \mathbf{NUT},$$

Here α is the fine structure constant.

The complete derivation of this equality (identity) is given in the "Theory of Nature".

The defining formula for the fine structure constant, discovered within the framework of the "Theory of Nature" (materialistic physics) is follow:

$$\alpha \equiv \frac{1 \text{ s}}{1 \text{ m} \times 1 \text{ kg}}.$$

This is a fine structure constant: $\alpha = 7.297\ 352\ 5664 \times 10^{-3}$. But this quantity is not a fundamental physical quantity. This value is the coupling coefficient between units of length, mass and time in SI. This is the real statute of this quantity. The problem of the fine structure constant, which has stirred the greatest minds throughout the century, is solved.

So, in this article convincing evidence (with references to TN) is given that in the Universe the unique constant of nature (Robert Yusupov's constant) "rules the ball":

$$\text{UCN} = 1,21030 \times 10^{44}.$$

The unique constant of nature determines the total amount of matter in nature. It also determines the total time of evolution of the universe. This constant is present in the definitions of minimum amount of matter in nature, in the minimum time duration in nature. This constant is present in the definition of the minimum length in nature and in the determination of the mass of a crupitsa of matter. This constant is present in the definition of elementary electric charge in nature. This constant is present in the definition of m the maximum speed in nature. These discoveries are made within the framework of the "Theory of Nature", firmly standing on

the positions of dialectical materialism, with the help of a scientific dialectical-materialistic method of cognition of nature.

"Theory of Nature" of the author showed practically, really the strength and power of the only scientific philosophy, Marxist-Leninist philosophy. Dialectical materialism is an integral part of the MLF. "Theory of Nature" of the author showed practically, really, the strength and power of the scientific dialectical-materialistic method of studying nature, the foundations of the universe. "Theory of Nature" itself is a further creative development of the scientific theory of dialectical materialism. The strength and power of Marxist-Leninist philosophy, dialectical materialism and the "Theory of Nature" consist in the fact that they adequate, correctly and truly reflect in their conceptual apparatus the very nature. "Theory of Nature" gives us an adequate, correct, true, consistent, general, scientific picture of the universe, the foundations of nature and the whole Universe.

It should be noted that all that is stated in this article is, in fact, the solution of the 6th problem of D. Hilbert on the axiomatization of physics.

The Bible states that God created the universe in 7 days. It's a lie. This is a great age-old lie. The lie is that there is a god. And since God does not exist and never existed, he could not create anything. "Theory of Nature" is in fact a direct proof that God never existed. Nature is material. Nature perfectly exists and does without God. The basis of nature is exclusively matter and the laws of its development. Robert Yusupov made a discovery that at the heart of the universe, nature, entire our Universe lies one unique constant of nature.

The lie about the existence of God is placed at the center of all religious teachings. Therefore, all religious teachings are false in their basis.

The lie about the existence of God is placed at the center of all religious teachings. Therefore, all religious teachings are false in their basis.

This lie has been spread for thousands of years by priests, theologians, fideists, cabbalists, and idealist philosophers.

The materialists, the dialectical materialists, expose this lie.

So the "Theory of Nature" and its author also make their feasible contribution to this exposure.

There is lie on the side of religion. There is truth on the side of dialectical materialism and "Theory of Nature".

Lying is the main instrument of reactionary forces and obscurantism. Lies are needed by these "dark" forces to enslave people to their will. Lies are needed by the forces of reaction and obscurantism to retain power over the peoples. Lies are needed by these forces in order to keep people in need, darkness and ignorance. Breeding, herd is easier to manage. This is the anti-human essence of all religious lies. Religious lie assiduously serves to consolidate the power of the bourgeoisie over the peoples.

We dialectical materialists and communists indulge in lie we do not need to lie. We firmly stand on the true dialectical-materialistic platform our worldview is dialectical-materialistic.

We explore nature through the dialectical-materialist method of cognition. We have achieved impressive results in the study of nature. We comprehended the truth about the structure of nature, the Universe. We comprehended the truth about the structure and algorithm of the evolution of the Universe. We discovered new laws of nature and rethought previously discovered. We correctly understand the nature and its laws. In nature there is no God. Nature perfectly does without God. Nature develops according to its dialectical-materialistic laws and

in its development follows its dialectical-materialistic logic. We have learned the truth, and we are all talking about it. We are talking about the way to achieve this truth. We are telling the truth. We now have a "Theory of Nature". The truth is on our side.

All the arguments, explanations and provisions of this article were well thought out during walks in nature with grandson Maxim. In the fact that they later formed into this article, there is merit and Maxim, for which he is declared grateful.

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