

**M.R. Amirbegov, Y.M. Amirbegov**

**THE ONTOLOGY  
OF THE CAUSAL BASIS OF MAN**

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**TO THE THEORY OF TIME**

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In 2014, Amirbegov Y.M.'s monograph titled "Mechanics of Thinking" or "Ontological Basis of the Subject" was published, which dealt with a philosophical question: the relationship of matter with consciousness and time of our being. But since the monograph duplicated the thesis conceived by the author and did not go beyond the material presented in it, on the advice of the consultant the author of the monograph is preparing its second edition in an expanded version with a new title: "Ontology of Causal Basis of Man", attracting his mentor, the author of "The Theory of Time or Principle of Formation of Matter Forms" Amirbegov M.R., as a co-author of this book,

Adhering to the opinion that matter between past and future temporal continuity of eternity is reduced to nothing and in reality there remains only a causeless "Nothing", the authors of this book from a clean sheet, but with baggage of knowledge about objective forms of being and causeless reality with its possibilities, build an unparalleled theoretical model of human integrity, answering the question: what does a man, his sensorium, consciousness, his thinking apparatus and thought itself, why and how? The authors submit this book to the judgment of the reader.

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## PREDICTION

Since the time when man first asked the question "why," "how," and "whence" this "world" and the "I" in this world came to be, millennia have passed, but he has not yet received an exhaustive answer to these questions. Nor have the authors of this book been spared these questions, who, in the course of researching the subject of their interest, have realized that man will never answer these questions until he discovers the mystery of the causal bases of this world, including man.

One of the first to suggest the foundation of the world out of all things by calling it "emptiness" was Siddhartha Gautama (Shakyamuni Buddha), whose teachings still find their admirers today.

In contrast to the Buddha, the ancient thinker Thales saw the general basis of the existence of the world out of everything in a variable substance - in "water": Anaximenes saw in air; Anaximander - in the infinite; Heraclitus of Ephesus - in the eternally "living" fire that "regularly flames up and naturally goes out". And Empedocles in the four elements: earth, water, air, fire.

Doubting that wholeness, be it emptiness, water, air, earth, fire, requires a causal basis for its being and cannot change by itself without an internal engine, Democritus (Leucippus in Greece, Lucretius in Rome, Kanada in India) endows these wholenesses with moving particles, which were called atoms, and wholeness with matter, which was originally thought to be the building material for everything. But convinced that atoms also need a driving force, Plato and Aristotle saw this driving force in the divine.

Plato saw this divine force in the rational Father and the demiurs, who molded man's body from inert matter, animating it with a soul that migrates from a dead body into a newborn one.

Aristotle, unlike Plato, sees this power in the triad - the unconscious "divine beginning," in its opposite - matter and their common substratum, through which the relations between opposites, generating forms of being, including man, sway. Matter, Aristotle said, is like a woman "harassing" the divine beginning that generates the forces of creation of material physical bodies, accordingly generating new questions: where from, why and how?

In contrast to Heraclitus of Ephesus, Democritus, Plato and Aristotle, who did not doubt the existence in reality of moving and changing physical bodies, there are skeptics in the person of Zeno, who excluded in reality movement, and Sextus Empiricus, who denied the existence of physical bodies, as there can be no that which arises, changes and is destroyed.

And went the followers of philosophical currents (materialism, idealism, skepticism), regardless of the personalities engaged in these currents, writing theories and treatises on thinking, movement, being and their forms, including man. And everything revolves around two axes, deity and matter, requiring the deity to revive to avoid "cold death.

Unlike the ancient thinkers, the authors of this book see the foundation of the world of everything in the natural continuity of static permanence, extinguished by the temporal continuity of eternity. And the producer of natural continuity, they see the phase of temporal continuity of eternity or the sphere between past and future continuity of permanence, excluding matter and any form of its being, including space, which reduces reality to "Nothingness.

Thus, if there is no matter in reality, not even a spatial gap, then what is realized by the world of everything, including man with his thinking apparatus and sensual soul, comparing what is not in reality, including the human corporeality. So what is thinking and what is consciousness?

Arthur Schopenhauer called consciousness "the conundrum of the universe," implying that the mystery of consciousness remains the darkest place in the entire corpus (collection) of human knowledge. And yet, the interest in this problem of philosophical anthropology has not cooled down; on the contrary, consciousness, like thinking, has become the most important object of study for New Age philosophers.

But, as is to be expected, the mystery of darkness gives rise to many interpretations of it, including that of consciousness and thinking.

And this multitude of interpretations reduces consciousness to a function of matter--the thinking human brain. We believe that matter does not have such a function - to think, and it is not the brain that thinks, but the man.

But what does the man represent, why does he think, with what he thinks, what is realized by him and his informational-sensual soul, why and how? This requires philosophical reflection... through reasoning.

Thus, the authors of this book decided to give an answer to these questions: what lies at the basis of the integrity of the world of forms of being, why and how, starting the research of the subject of their interest - man from scratch, from "Nothing", but with the baggage of knowledge about objective forms of being and their structures, obtained both from scientific literature and personal experience. In doing so, they do not abandon the concepts generally accepted in the scientific world to denote objectivity; they only answer the questions that interest them:

1. What divorced man from his animal ancestor, why and how?
2. What is thought - matter or non-matter, and what is realized in human consciousness by matter, why and how?
3. what is realized by man and his sensual apparatus, why and how?
4. What in the integrity of man functions as an engine of thought and what functions as a repository of information realized by our knowledge of the forms of being, why and how?
5. What in the integrity of man establishes the relationship between the carriers of information of the causes of his being, releasing this information by our knowledge, why and how?
6. Why in the impermanent, mortal world, where "everything flows and everything changes," is the information about the forms of being preserved by our knowledge about them?
7. How is the order of changes in the human thinking apparatus transformed into conceivable images and the words denoting these images?

Having overcome the semantic barriers of the posed questions, the authors of this book have reached the unknown, which requires philosophical understanding by the dialectical method of reasoning, which reduces the known opposites to the sought compromise, diluting their contradictions into diametrical opposites of the integrity of reasoning, excluding all kinds of contingencies and deviations from the generally accepted principles and laws of dialectics.

Developing their research methodology, the authors have coordinated their reasoning with both the generally accepted and tried-and-true laws of dialectics.

## **LAWS OF DIALECTICS**

1. The law of constancy; (the law of conservation of reality)
2. The law of negation of negation;
3. The law of transition of quantity to quality and quality to unit of quantity;
4. The law of unity of contradictions and compromise of opposites;
5. The law of centralized unity of relations;
6. The law of linear and reciprocal relationship of mutual necessities;
7. The law of irreversibility of stages of motion - time.

Of the seven laws of dialectics, four laws were previously known, and the last three have been added by the authors of this book. In the third law "transition of quantity to quality and quality to quantity", the law of irreversibility is violated, and the transition of quality to unit of quantity does not violate the law of irreversibility, so the authors added the concept of "to unit" of quantity, and from the fourth law they excluded the struggle of opposites, because in reality there is no struggle.

Modeling the theoretical integrity of man by dialectical method of reasoning, the authors had to abandon the established opinions about reality, matter, motion and take on faith those opinions which logically are necessary for man to comprehend his integrity as a substratum of opposites, such as the phase of time continuity of eternity, or "Nothing", and its produced opposite - matter.

As a result, the causal bases of man and his thinking apparatus were found, together with the thought engine and the regulator of information flows, realized by thought images, thought words and feelings in response to any changes in the integrity of man.

## **Section 1. to the question of anthropology**

The main subject of Anthropology is Man and his consciousness, which is excluded without his thinking apparatus, whose mechanism of operation is still under question.

In searching for a solution to this question, Man delved into the wilds of brain tissue, but did not get the desired answer to the questions: what thinks, why and how - from the nerve cells. And the question arose - does the brain think? One thing is clear, that man thinks, and nerve cells in his brain are carriers of information about existence, received in the period of his life cycle.

There seems to be no objections to this, but the question of why and how this third-party information is recorded in human nerve cells, stored by his knowledge, released by thought, read and returned to the cells for preservation, requires philosophical comprehension.

We need some kind of clue from which we can pull the information we need about the causal bases of man with his thinking apparatus. And this clue can be the structure of the human brain, since only and only with a change in this structure did the animal begin to reason, becoming human.

To reason is to conduct a dialogue with oneself or with an interlocutor about an object of interest in a developed language of communication, which leads to comprehension of the sought unknown in the known and the known in the unknown.

Reasoning is a method of making sense of the object of interest being studied.

And what do we know about a person that can lead us to the sought unknown, combining the known as its necessity?

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It is known that, all individuals of biological species have a more or less developed sensory apparatus and many of them, including man, are capable of thinking, but reasoning is the prerogative of Man.

So why did an animal gain the ability to reason by calling itself Man?

Of course, there are many hypotheses and theories as to what created man (meaning a reasoning animal).

Some believe that God created man in his own image. Others believe that labor created man out of a monkey.

There is also the assumption that an animal cannot think: - only man thinks and reasons, since man is of alien origin.

But there is an opinion that Man is an endemic of the Earth's biosphere and in the phylogeny of man there are no common ancestors with the currently existing biological species, because each species has its own beginning, its own phylogeny in polyphyly.

From the point of view of biologists (not all), all stages of human phylogeny, beginning with unicellular organisms, were endemic to the Biosphere of the Earth with the evolution of which, its endemic has evolved. And in the process of alternation in generations, when the ecological niche of biological species changed (not locally, but on a large scale, "globally") and conditions for general mutations arose, one of the generations of animal species, differing from the previous generation by the structure of the brain, acquired the ability to reason.

In the process of mutations, the furrows between the cerebral gyri of the animal were deepened and new gyri appeared, which increased the capacity functions of the cerebral cortex, expanded the range of light and sound waves reception, increased the capacity functions of information receivers, contributing to memory storage of the volume of incoming information about the world, and contributed to information coding with words, denoting images and events.

A baby at birth does not distinguish the tones of sounds, hearing them as one sound, nor does he distinguish the tones of light, seeing a single color in a wide spectrum of colors until his brain structure is established. Some people expand their range of reception of sound waves - these are musicians, others expand their range of reception of light waves - these are artists. Animals have no such abilities.

As a result of changes in the structure of the brain and increasing of its efficiency, an animal expands the range of reception of light and sound waves, and the animal in the society of its likeness develops a language of communication, becoming a reasoning man who, by trial and error, begins to adapt his environment to himself.

What was the meaning of Man's ability to reason?

Man began to denote images with sound combinations (words) stored in his expanding memory, calling the information coming



through his senses about forms of being and phenomena by their names, and this means that he began to develop a language of communication, thinking not only with images, but also with words denoting images and events.

And being a reasoning animal, with the knowledge of words denoting images and events, man, asked the question: what is it, "whence", "why", "how"? And began to look for answers to the questions posed. He did not yet know that a philosopher had awakened in him, but his future generation, becoming an educated social element, would know this. And if his, unthinking ancestors, in the struggle for existence only adapted to the environment of their habitat, through posed questions and found answers man began to adapt his environment, he began to plan the future, to get a household, to build a house, to cultivate the land, to get cattle and to make implements of labor.

So it was not labor that created man, but the language of communication, the ability to reason, and the society of one's own kind. This made labor, inherent in any animal as well, consciously purposeful, productive, and socially necessary.

And the first social-labor collective in primitive man turns out to be the family contract, where each member of the family, depending on his or her gender and age, performed his or her role in family-social activity, becoming a social element.

The instinct of self-preservation, family-sex and energy-food dependence, common interests and the threatening external environment, rallied family members around a strong, dominant authority - the dictator of the position.

The dominant family member introduces ethics of relations of each family member to himself, to the family, and to each individual in the family separately, which gave rise to the family hierarchy pyramid of relations and moral foundations in the family: what was proper to women was not proper to men, and what was proper to the head of the family was not proper to anyone. And this dominant member of the family, the monarch, becomes a man, the personal inseminator of females and the keeper of the whole family.

But in the patriarchal family, the female sex was responsible for the upbringing and survival of the young born by them, and the woman among the generation born by her assumes the duties of the monarch,

forming matriarchal cells, which, unlike the patriarchal family structure, dissolved with the age of the generation born by them.

Thus in his family, the monarch assumes the responsibility to be the "Seven-Self": producer, sustainer, legislator, executor, judge, warrior, punisher, becoming a cult to his family members, and the family members who embrace the cult's ethos turn out to be the cultural members of that family.

"Culture is the unifying tradition of a population (families, nationalities) of service to the cult and its moral, ethical, and aesthetic tenets.

Basically, the strategy of the family was aimed at preserving the integrity of the family, at mastering the sources of subsistence, at multiplying the offspring; at expanding the range for settling the offspring; at defense against an external enemy, at establishing an internal family order, at cultivating an ethic to the family culture, to its members and to the family as a whole.

But the expansion of the range intersected the interests of one's family with the interests of other families also expanding their range, which gave rise to warfare. And with the intersection of interests, some families are destroyed, others are built, acquiring both territory and sexual partners, which generates mutants that strengthen the species. In this way the "blood" of the next generation is also renewed when third-party families mix, and new relationships are already established between generations in the past of warring parties, merging into multifamily tribal formations.

With his ability to reason, man, not only for the sake of curiosity, but mainly for the sake of solving problems of survival, began to learn the world, including the society of his own kind and himself in this world, enriching accordingly the language of communication as well. By making sense of his knowledge of the world, and by making sense of himself in that knowledge, man became a conscious element of society.

Having become conscious, man could already plan his future, not only in the conduct of the economy, but also in the improvement of his military readiness. Preparing for war, man becomes an inventor of killing and defense implements, and with the expansion of economic lands, a developer of production technologies and improvements in labor and everyday life.

Thus from the primitive single family units, by "natural selection", the phylogeny of the multifamily state system shifts.

With the expansion of production relations came the need for labor power, and if in warfare the sexual partners were taken from the enemy, and the enemy was destroyed and his property passed into the property of the victor, necessity forced the transformation of the defeated into this labor power, which gave rise to a new form of state system, the so-called slave system.

The state is an ecosystem monopolized by one species and centralized by the individual of that species.

With the formation of the state with the slave system, classes of social inequalities also emerge - the class of slave-owners and the class of slaves with different roots of cult and morality. And man, as a social element belonging to this or that social class, becomes a social element of a society of his own kind.

But man, with his problems of survival and energy-food needs, as he learned to speak, became sociable, demanding a companion and a partner in interest, which became one of the reasons for the association of people in social organizations, formed by gender, age, mixed. And with the emergence of social classes and a multitude of religious denominations, organizations along social, religious and cult lines appeared. People began to unite in social organizations according to language of communication, intelligence, social status, common purpose, need for communication and realization of their knowledge and needs, interest in the opposite sex, energy-food needs and needs for festivity and cult rituals, taking by language of communication and their attitude to the cult with its traditions - the meaning of nationality.

Thus, when animals of the same biological species, due to mutations, deepened the grooves between the gyrations of their brains and, having developed a language of communication, began to reason in the society of their own kind, these animals became humans. So outside the society of their own kind, man remains an animal, doomed to extinction, which may have been caused by isolated random mutations leading to a dead end.

Man is a species of biological form of being, whose ancestors evolved into this biological species, regardless of what continent of the

Earth they were on - similar biological species with differences in skin color, hair, eyes, etc. are formed in similar environmental conditions.

Much can be said about man, his culture, his anatomico-physiological peculiarities and the structure of his brain, but all this cannot reveal the secret of his thinking mechanics, because we touch only the substantive - the material side of man's integrity, which cannot think.

Neither can the immaterial side of man's integrity, which we call "spirit", think. And yet, man, in the presence of these unconscious extremes, thinks, and not only thinks, but also reasons.

## **Section 2. to questions of ontology**

There is an opinion that there is nothing in reality - no matter, no physical bodies, no time, no space, not even motion, which reduces reality to a static constancy, to "Nothingness", or to Aristotle's "divine beginning", who believes that "the prime mover should be thought only as a motionless engine, God should be immovable".

But if there is no matter in reality, then what is thought, what is thought with, why is thought and how? And what finds its concrete expression in our consciousness? And most importantly, what generates motion, without which our consciousness is also unthinkable. And what integrity and what thinking apparatus of man are we talking about?

We begin to model the integrity of man with his thinking apparatus and thought engine from a clean sheet - from the zero instance of motion, from the definition of "reality", coordinating our interests with the data on time, reality and forms of being, presented in the books: "The Theory of Time or the Principle of Formation of Matter" and "The Primordial Cause of Motion and Time of Being".

Reality, as we have found out, is that which is permanent, non-creational, unchanging, indestructible, requiring no reason for its being - creator, receptacle and spatial precincts - what we have called a sphere between the past and the future temporal continuity of eternity (this is the eternal zero instance in R. Descartes' coordinate system).

Since the concept of "sphere" has many meanings, it is appropriate to denote reality by the concept of "static constancy" or "Nothingness" due to the absence of a spatial gap between the past and future temporal continuity of eternity, which excludes materiality and other forms of being.

"Nothing" is causeless because there is no reason for its existence and non-existence, "Nothing" has no limiting factor and interrupter of the continuity of its permanence, it is unlimited, integral and constant, and permanence is uninterrupted. And the reality of "Nothing" without applied forces is preserved in a static state due to its possibilities, such as unlimitedness, wholeness and continuity,

And the state of causeless statics in the continuity of its constancy without applied forces is inertia (according to Newton), or a linear form

of motion, which can be represented as a shift of statics from the past continuity of its constancy to the future continuity.

Inertia is the gratuitous state of statics in the continuity of its constancy, or a linear form of motion (which is consistent with Newton's first law)

Motion is an action that preserves reality in the continuity of its constancy, which can figuratively be thought of as a shift of statics from the past continuity of its constancy to the future continuity.

According to Heraclitus, movement is becoming-"everything flows, everything changes".

According to Zeno, motion does not really exist. According to F. Engels, "motion is the mode of existence of matter".

But reality, representing both the phase of eternity's temporal continuity and the sphere between the past and future continuity of its permanence, both "is" in this continuity as something belonging to it, and "is not" when it is the zero instance of eternity's future temporal continuity.

By generating continuity, reality is released from past continuity and becomes the "front" of the generated continuity, which summarizes past continuity with the generation, and reality is preserved in the constantly summarizing continuity of its permanence by its rotating contradictions-"is" and "is not".

Let us ask ourselves the question: is there a "Nothing" or is there not a "Nothing"? And we won't find a definitive answer because "Nothing" is non-objective, it is unlimited and constant, and there is no reason for its existence and non-existence. And where is the energy?

For the unity of reality to persist, it needs to be unbounded, integral and continuous in its permanence, which is not interrupted. So, if reality is preserved, its necessities-unrestrictedness, integrity, and continuity-are realized in acting forces, or, to put it another way, realized in the possibilities of the unity of reality that preserve that unity. Why the unity of reality? Because "Nothing" cannot be in the plural, all the more so if the sphere between past and future temporal continuity of eternity cannot be in the past or in the future, it is not interrupted.

But in isolation, these possibilities: unlimitedness, wholeness, continuity, could not preserve the unity of reality. They can preserve it when they are closed by this unity into one potential, whose function is to preserve the unity of reality, but not its multiplicity. This means that if the unity of reality is preserved, then the activity (energy) is carried

out by the capabilities of the unity of reality closed into one potential. And unity is preserved only in temporal continuity (there is no other): there was unity of reality, there is unity of reality, and there will be unity of reality, which figuratively can be represented as a shift of unity of reality in temporal continuity of eternity from the hopeless past to the boundless future.

Since the shift of reality in the temporal continuity of eternity is an action that summarizes the past continuity, the equilibrium is broken in the acting potential, and possibilities in this potential are paired with the born continuity, which generates potentials with the function of pairs. And arguments of function of these pairs arise, realizing in extremes of integrity with common substratum and preserved unity of reality.

Thus, with the fulfillment of its purpose and with the divergence of potentials into potentials with the function of parnos-ty, the potential of the triad is extinguished, and the arguments of the functions of parnos at the common substratum (continuity-ty) remain in continuity, which restores integrity in the presence of opposite extremes - the extremity of past continuity and the initiality of future continuity.

In the fulfillment of assignment and restoration of integrity in the presence of opposite extremes, the potentials with the functions of pairs are extinguished, and again becomes the function of the triad until the subsequent action. These are the episodes of the realized energy of the possibilities of the unity of reality.

Energy is a performing activity;

Possibility is the acting necessity of potential, or the necessity of the function of potential;

Potential is the doer of activity;

Function is the assignment of activity.

Since "Nothing" (statics) continually shifts from the past temporal continuity of eternity into the future continuity, generating the current continuity - the summation of the past continuity, the balance in the acting potentials is constantly out of balance, and the integrity is pulsating - quenched and restored; similarly the arguments of the pair functions are quenched and restored - they are, then they are not. And around the unity of reality rotate the relations of arguments of functions of acting potentials both to each other and to potentials in wholeness, and to temporal continuity of eternity, which are realized in vector directions con-

verging and diverging at the angle of unity. And the angle is curvature, and vector directions converging at common points leave quanta of their curvature at these points, which are realized in the charge of point potentials in the common potential.

The quantum is part of the curvature or integrity.

When voltage-drop fields happen with their phases, they cut off equality of their intersected parts from each other at the common point of their occurrence, leaving their intersected parts at the point of occurrence, and these cut off parts of phases of intersected fields are quanta of curvature of these intersected fields, centralized by unity - "spirit" in this potential.

Spirit is the acting "Nothing" in the potential.

Thus, in potential with acting possibilities, such as nothingness (the sphere between past and future temporal continuity of eternity), continuity of permanence, and integrity in the presence of opposing extremes - ("Nothingness" and extremes of past continuity of permanence), changes take place.

Thus, when reality shifts in the continuity of its permanence, the becoming extremity of past continuity of permanence turns out to have multiple point potentials that were not there before in the integrity. And each point potential carries out energy in two forms - potential, preserving the "spirit" of integrity, and kinetic, excluding reality in continuity, while one of this plurality of potentials may turn out with the function of energy implementer, realized by human integrity.

But between the past and the future continuity of eternity, the persisting reality, there stretches a loop of continuity of its constancy (remembering the school curriculum, R. Descartes' system of coordinates), which only in our imagination is extinguished by the time of being of these point potentials.

Time turned out to be a product of our consciousness, extinguishing by itself the past continuity of static constancy.

Time is a product of our consciousness, extinguishing the past continuity of constancy (or the duration of the counting of the conditional number of movements from event to event).

But the continuity of permanence is incomplete, so the time that extinguished it is incomplete as well. And the extremity of past tem-



poral continuity of its permanence becoming the opposite of reality is extinguished by the phase of incomplete eternity.

The phase is the becoming extreme of incompleteness.

Thus we have defined the extremes of the integrity of the world of everything, one of which is reality in the form of the phase of the incomplete temporal continuity of eternity, or the sphere between the past and the future continuity of permanence, and the other extreme is action, born of the phenomenon of nature in the shift of static in the continuity of its permanence, becoming the opposite of its parent - reality. Whereas the common basis of these opposites is the natural continuity of static permanence, extinguished by the temporal continuity of eternity...

We have also defined the possibilities of the unity of reality in the degrees of their relations both to the natural continuity that is born as a phenomenon and to reality and to each other... we will learn the rest in the course of the presentation of the topic.

One way or another, we have seen movement in actions and in fluctuations of degrees of relation and in their differences, and we have called the period of replacement of the extinguished action by the reproduced one - the stage of this movement. It remains to be determined in the material structures in the continuity of constancy and to understand what is realized by our corporeality and the world of everything - why and how, if the basis of the world is "Nothingness" as well as reality.

## **Section 3. Toward the SUBSTANTIAL BASIS OF BEING**

### **3.1. matter and materiality**

In our logical experiment of ontology we have decomposed the continuity of permanence into a past continuity extinguished by time and a newborn stage of motion according to R. Descartes' figurative system of coordinates. And in this experiment, reality manifested its duality: it was in the continuity of its continuity the front of continuity, then it disappeared from the continuity, taking on the meaning of "Nothing," being the zero instance of future continuity.

And these contradictions of reality: "is" and "is not," the "continuity front" and the "origin of future continuity" began to rotate (to change places). When reality became the source of future continuity, the continuity front was extinguished by the emergent extremity of past continuity of permanence or the phase of time imitating "something" opposite to "Nothing." And these opposites, "something" and "Nothing," turned out to be extremes of integrity of any form of being, including man. When reality became the front of continuity, the extremity of the past continuity of permanence as "something" was destroyed, the integrity was extinguished, dissolving into the continuity of permanence, because one of its extremes was destroyed.

Since with a linear shift of statics in the continuity of its constancy the born continuity disturbs the equilibrium in the acting potential, supplementing it with itself and shifting to itself the vector directions of relations of possibilities in the potential, the angular shifts and differences of degrees of relation to potential and the point of occurrence, deform the becoming extreme of the past constancy continuity, distorting it. And the extremity of the past continuity of constancy, distorted by angular shifts and points of hearing, as an emerged "something", turns out to be information of the extinguished continuity front (sphere), vector directions of the disturbed differences, and their temporal points of hearing (corpuscles) that distort "something" with different rates of shifts - divergence and convergence of information.

"Information is a message to the future about the past."

Thus, we were able in this episode of the shift of statics in the continuity of its constancy to designate the main types of motion, some of

which excluded change - this is statics, while others allowed change and order - this is dynamics.

Thus the contradictory extremes of motion itself manifested themselves, one of which excluded changes in integrity - these were centrifugal-centripetal spatial-temporal linear shifts; the other allowed changes in integrity - these were angular, parallel to reality shifts of information. And the opposite of reality turned out to be information about angular shifts and points of their occurrence in linear space-time fluctuations.

To whom, or to what is this message about the past transmitted, if one of the opposites of reality becomes one of the extremes of human integrity? This information is received by the wholeness (the wholeness is informed).

Thus, with becoming the extreme of the past continuity of permanence as opposed to reality, the information-sensitive window of the subject opens, and the information that has become the stage of movement to the extreme of the past continuity of permanence materializes (movement materializes only in our consciousness that it would not happen without changes).

Deepening the logical experiment, we found that the vectorial orientation of spatial continuity is centrifugal - towards statics, and the vectorial orientation of temporal continuity is centripetal - towards statics, and matter appeared as a compromise of opposites - action and counteraction, statics and dynamics.

To the centrifugal action of reality giving birth to spatial continuity, time responded with counteraction: a centripetal shift, extinguishing the action by its phase. And the action, extinguished by the counteraction with its mass of angular shifts and points of occurrence, becomes the informant of this multitude of ambiguities, vibrating potentials.

And this current information is merged in the sensory apparatus by man, because any changes in the potential of the implementing energy by man are realized by the senses of this man, taking the meaning of moving and changing in time and space merged matter - i.e. something in something.

Matter is motion with its two contradictions, such as statics and dynamics, realized in our consciousness by something.

To put it another way, matter is information or a message to the future about the past, and in the past there was movement (or rather, there was action).

Movement materializes in our consciousness.

According to Aristotle, "matter" is only a possibility of "form".

Matter, according to Kant's definition, is a "thing in itself.

According to Lenin's definition, "Matter is a philosophical category for the objective reality which is given to man in his sensations, which is copied, photographed, displayed by our sensations, existing independently of them..."

According to the definition of the authors of the book "The primary cause of motion and the time of being", motion is not "a way of existence of matter" and not "an attribute of matter", matter is motion itself.

Thus, we have resolved the question of primordality and secondarity: the primary reality turns out to be a causeless reality - static constancy or "Nothingness", and the secondary reality is motion, which materializes in our consciousness. (The question: what is primary, matter or consciousness, is for others to decide, because we see in these concepts a direct and inverse relationship: without motion there can be no consciousness, without consciousness there can be no matter, and matter is motion.)

Since motion in our consciousness finds its concrete expression in comparison, as something limited (objective), different from the limiter, we add to the concept of "matter" the concept - "form", which becomes with the frequency of rotation of reality contradictions (rotation of reality polarities - "is" and "is not", "originality" and "front").

Form is the information about boundedness that finds its concrete expression in our consciousness by the factors of comparison. Factors of comparison: - curvature (tension), polarity, tonality, height, length, latitude, frequency-order.

The word materiality is often used in philosophical writings, which displaces the concept of matter when denoting the so-called objective reality.

Since reality denies objectivity, and there is no reality in objectivity, in our work we abandoned the concept of "objective reality" and decided to use the concepts of "matter and materiality".

For example, to denote the volume and the sphere of this volume by one concept - "matter" - does not work. We can denote by the concept "matter" only that which finds a concrete expression in our consciousness - it is the sphere of the volume of forms of movements, such as linear, corpuscular, wave, corpuscular-wave, evolution, angular, vibrational, extinguished by one time.

The confinedness with the complex of confluence factors in our consciousness takes the meaning of materiality or objective form of being, and the sphere with which the confinedness is closed takes the meaning of the form of matter extinguished by the time phase of the confluent materiality's being.

Materiality is the essence of the merged boundedness.

The concept of "materiality" is consonant with the concept of "substance," denoting the essence of what is.

Our corporeality is material but not real, and it is enclosed by forms of matter, becoming according to a single principle into causal stages of motion.

The principle of becoming forms of matter into causal stages of motion is unified.

As we understood, reality turned out to be outside matter and materiality, i.e. outside our corporeality, but in our wholeness, because our wholeness is a substratum of such opposites as statics - "spirit" and dynamics - materiality, which identifies our corporeality, deprived of reality.

### **3.2 Curvature and Speed**

So what is merging in the sensual apparatus of man, if reality, "Nothing", cannot change, so it cannot warp, and yet one of the factors of material-ality's merging, along with polarity and vector direction, is curvature...

If by conventional curvature we denote the letters taking in our consciousness the meaning of this or that conceivable sound, then the order of curvatures is realized in a conceivable word (order of sounds) denoting a conceivable image, and finally these curvatures in time, of course in our consciousness, turn into whole theories. And when we read novels, whole battles and love scenes are played out in our minds, since

each letter is a conventionally curvature-coded sound, and the order of successive curvatures are sounds, words and whole sentences, by which information about something, in something, for some reason is coded... Similarly, (when we think rather than read) the vibrational circuits in our sensory apparatus are realized by thought images and words denoting those images, which we have called thinking. But let us not be ahead of time, and let us also imagine mentally what can warp, why and how, if reality is unchanging, and the past does not exist - it is only extinguished in our memory by time. So there is nothing to distort, and yet everything in our material world is distorted by differences in degrees of relationship (potential differences).

If realized energy is realized by the subject object and any fluctuations in the potential realizing this energy are realized by feelings of the subject, then with intervention of the born continuity in the acting potential the equilibrium in it is broken, which generates angular vector directions of arising differences to each other and to the whole potential as well as their points of occurrence. And the angle is curvature, and angular information shift is an angular form of motion, while the point of hearing is a corpuscular form of motion, which materializes in our consciousness, taking on the meaning of a form of matter.

But while angular divergences and convergences in the potential warp information, differences in degrees of relation in the potential give the steepness of that curvature (potential differences or voltage), and different rates of linear and angular shifts ambiguously warp the becoming extreme of past continuity of permanence, and we see many forms of matter moving in matter.

If we treat the electron the same way we treat planet Earth, the steepness of curvature (tension) of the electron and the Earth will be the same: for us, the electron will become the planet.

In objectivity, in addition to the linear shift of information, angular shifts of information, up to and including rotation, are not excluded. In this case, the tone of angular velocity gives reality by rotation its contradictions "is" and "is not," while the tone of linear velocity gives action released by the stage of motion in quenching the contradiction of statics. As for the linear continuity of constancy, it, summed up by the released continuity (longitude), "lengthens" with the same speed, be-

cause the time extinguishing this continuity is the equality of this continuity, which can neither overtake nor lag behind the source of motion.

Thus the speed of the linear shift of statics in the continuity of its constancy turns out to be equal to one. And yet, in objectivity, everything moves and rotates at different speeds.

A classic example of different linear velocities at the same angular velocity is the wheel phenomenon. Each point of the rotating wheel radius describes an orbit around the axial point of the rotating radius at different speeds, and the steepness of curvature (tension) of each orbit described by the lengthening radius decreases (tension drops, and the wheel circle takes the value of the tension drop field). Throw a stone into the water and we see a wave running through the water, the curvature of which falls with the linear lengthening of the wave radius and the voltage drop field of the inductor of this wave (stone) is erected. Conversely, the linear velocity of the electron and the planet are commensurate, but the angular velocities of rotation are disproportionate.

Again the question arises why in objectivity the velocities are different, if the continuity is always equal to the time of its extinguishing...

The time and distance of the linear shift of information from event to event in continuity are conditional. But reality is unconditional, it is unlimited, because Nothingness has no limiting factor, no height, length, latitude, top, bottom, depth and surface. What has no limiting factor is infinity. And if we talk about infinity, which suddenly has its opposite, we do not limit reality, we allow it between opposites, such as past and future, which do not exist in reality. And reality, in the continuity of its constancy, turned out to be the golden mean of eternity, shifting its past, hopeless temporal continuity, into a future, infinite temporal continuity. And this shift, strange as it may seem, is conditionally unconditional, since nothing shifts in reality, and yet there is nowhere to go from eternity, which does not exclude the shift from past to future, which is realized by the linearly lengthening temporal continuity, extinguishing eternity....

So, we encountered linear vector directions: centrifugal - from reality and centripetal - to reality, taking in our consciousness the meaning of centrifugal shift length (longitude) and duration of this length description - centripetal time, calling the ratio of described length to conventionally taken duration speed. When information diverges from one

point by rays at an angle, the distance between these rays lengthens. If we drop a perpendicular from the point of information divergence to the length of divergence between the rays, the length of information divergence from the point of perpendicular falling on the edge of the ray forming the triangle side will be shorter than the linear information divergence between the rays. And the length of linear divergence of two points by the same time and the length of linear divergence of one point from the perpendicular by the same time are different rates.

### **3.3 The Tunnel of Time**

Time, like the past continuity of permanence, does not exist in reality; time is a product of our consciousness, by which we denote the extinguished continuity (length, duration) of permanence, counted in the past by conditional stages of motion - moments of time. And time for extinguished stages of motion, individualizing continuity, becomes a tunnel where other events and forms of being are excluded.

For example, in human ontogenesis, other forms of being are excluded that are not related to human corporeality.

Consequently, human existence time is a tunnel of time of being for those forms of movements that are not excluded in human corporeality, but characterize each stage of human ontogenesis.

When we count the solar system by time, we exclude from its ontogenesis any events and forms of motion that are excluded in this system, which takes the meaning of the time tunnel of existence of all forms of motions characterizing the solar system - it is the Sun, planets, atoms, photons... and, finally, it's us.

Thus, objective carrier of information of reasons of its being, which was extinguished by time and limited by space, for the forms of being in this carrier of information takes on the meaning of time tunnel. Whereas the forms of being in the tunnel of time turn out to be carriers of information of the causes of their being in the objectivity extinguished by this time. (The Universe is a time tunnel of being of stellar systems by elements of molecular structures of the Universe).

We know from biology textbooks that the human (animal) body is composed of tissue cells - forms of being in the time tunnel of the level of human ontogenesis.



We also know from various textbooks - cytology, physics, chemistry - that each tissue cell is composed of elements of molecular structures characterizing the cell.

It turns out that the cell for the elements of its and only its molecular structures is a tunnel of time of their being, what they are in this tissue cell and not otherwise.

Similarly, an element of molecular structure of a cell is a tunnel of time of being of elementary particles, including photons. And so on and so forth.

We will not drown in inexhaustibility, otherwise we will reach one infinity and continue to fracture this one infinite form of being - the carrier of information of the causes of its being.

There is no absence in presence, so we will never zero out presence, i.e. we will not reach the zero point, and any attempt to find the final form of being will end in disappointment - a shift of reality and a release of continuity by a phenomenon of nature.

It follows from the above that each form of being is a temporal dimension, taking the meaning of the tunnel of these moments for the moments, the carriers of information of the causes of its being.

The Universe, Solar system, Sun, planet, human body, tissue cell, atom, photon by duration of being in the tunnel of one time take meaning of temporal dimensions, acquiring in our consciousness by factors of comparison, meaning of existence forms, which have their own reasons for being what they are where they are. Universe, solar system, atom, photon, human, tissue cell, molecule, element are different temporal dimensions.

But we are interested in such temporal dimension as man, calling the time of his being (or rather his corporeality) according to the factors of current moments' comparison - the duration of human ontogenesis.

So what information carriers of the reasons of its being in the time tunnel of the level of human corporeality shift the phase of its ontogenesis?

We know from any biology textbook that the human body is made up of ambiguous tissue cells. And cells are composed of elements of gene molecular structures of the cell, while elements are composed of elementary particles, including photons, and photons are composed of unknown yet (of analogs, but another time dimension, as a moment in

the time tunnel of being of the photon), etc. And each level of time from the combined temporal dimensions, shifts human ontogenesis: photons, shift the ontogenesis of an atom, as the current moment of its time, atoms shift the ontogenesis of a tissue cell, and tissue cells shift human ontogenesis, while people shift the ontogenesis of their society - state.

But there are no two equalities in the world (it concerns both tissue cells and atoms and photons), and the shifting phase of human ontogenesis time turns out to be distorted by carriers of information that were on different stages of their ontogenesis. Whereas the phase of human existence time falls with this curvature of information to the substratum of opposites, to the integrity reading this information - the human soul, and the person sees, hears, touches, etc. But it does not come to thinking, because to see, to hear, to feel is to exist, but it does not yet mean to think.

In order to think, this information, which vibrates the phase of human ontogenesis time, must be preserved by human knowledge in the tunnel of his time, i.e. each stage of human ontogenesis must be a carrier of information of previous stages - the reasons of his existence.

We know that nothing is eternal in the material world, and any form of matter is destroyed and replaced by another form. And yet the information in the tunnel of our time is preserved by our knowledge. Why and how?

In the material world we find similar forms of being - photons, atoms of the same species, planets, stars, animals of the same species, including humans, whose age exceeds many thousands of years. So, the Earth's biosphere is a carrier of information of non-dead animal species. On the one hand, nothing is constant, and the information about kinds of photons, atoms, living organisms seems to remain constant. So, our knowledge about the forms of being can be preserved according to the same principle, according to which the kinds of forms of being are preserved, including "living" forms. And "living" forms alternate in generations, and their kind is preserved in each generation. So, photons, atoms, star systems and universes alternate in generations, including nerve cells in CNS, where information about the world of everything and everything in this world is preserved by human memory as in the cosmos.

But not all forms of materiality alternate in generations, because they are not all centralized by unity - the nucleus. Solar system, atom, photon, tissue cell differ from stone, metal, clay, etc., among other things, by the structure of systemicity centralized by unity (nucleus, monarch) - a source of building material for the forming generation and regulator of intrasystem relations that bring order to the system.

Thus, we find a clue - answering the question of how information is preserved in a world where nothing is permanent - by alternation of carriers of information causes of their existence in generations.

### **3.4 Quantity, Quality, Property**

Reality ("Nothing") is causeless; it is neither quality, nor quantity, nor property. But in the continuity of its constancy reality manifests the meaning of the unit of quantity with quality, being what it is in the continuity of its constancy, remaining an eternal cause of motion and a co-causal (one of the causes) of the resulting multiple forms of motion materializing in our consciousness.

In contrast to the prime cause of motion, reality or "Nothing," the forms of the material set are causally consequential and impermanent; they arise, become a substitute for annihilated forms and are annihilated, being replaced by emergent forms that are not identical and unequal to those annihilated (which reduces to the law of negation of negation). So, if in the material world of the multitude everything is identical with itself, then in time it becomes unequal to its past, which we called "change, connected with the notion of dynamics".

What happened that changed the form of materiality, the object of our interest in time?

According to the conditional criteria of dimensionality, the object lost or acquired a certain number of causal and conditional units and became another form unlike the past form. But the former form and the acquired form are different qualities of materiality; if the form of matter has changed, it cannot remain what it was before the change, neither qualitatively nor quantitatively.

What is the relation of a new quality acquired by a subject to the acquisition or loss of quantity, but quality and quantity of what - energy,

forms of matter, forms of motion, knowledge, experience, degrees, atoms, photons?

Can we talk about the quantity of unities, knowing that there is no equality in the world, be it photons, atoms, molecules, planets, star systems, or individuals of the same species? No, we can't!

Can we talk about the quality of something in this fluid world if everything in this world, in denial, is denied? No, we cannot!

But we can talk about equal and unequal numbers with a number of conventionally single-digit mathematical units with the identical quality of being a unit of quantity of any number.

One photon and many photons, one atom and many atoms, one planet and many planets, one Universe and many Universes... one cause and many causes. And if a photon acquires the value of a unit of number of photons, the number of photons acquires the value of a number...Similarly, the Universe acquires the value of a unit of number of Universes, and the number of Universes acquires the value of a number,...the cause acquires the value of a unit of number of conditional causes, and the number of causes acquires the value of a number.

Thus, the unit of quantity, the number one, is a product of our consciousness, denoting the criterion of any number - the order of photons, atoms, planets, Universes... causes. Then both photon, atom, planet and Universe turn out to be numbers as totality of units. Atom number is a set of photons, Universe number is a set of star-planetary systems, etc. So number goes to the unit of quantity in number, and the unit of quantity goes to number. And the subject of research disappears in the world of eternal infinity and turns into a number, fractioned into conditional units, falling in the degree of relation to the subject of our interest. Plato called time a number.

Thus, with application of the mathematical apparatus we lose the object itself - its qualitative side, because the quantitative index destroys (extinguishes) the qualitative side of the object of interest - this is the Law of transition of quantity into quality and quality into a unit of quantity.

And we return to the object of interest by the form and content according to the conditional criteria of measurement, as to the set of units - number and as to the unit of quantity in the number and we say: the quality of the object of interest is to be what this object is, to be where it

is, in all its forms of manifestation in time and space both as number and unit in number.

Quality is the being of what is, in what form it is, with the properties of being both cause and co-cause of a future consequence.

Quantity is the set of conditional causes of being of that which materializes in our consciousness due to this set of causes, according to the conditional criteria of dimensionality acquiring the meaning of numbers, denoted by numbers or the concept of "unit".

From the philosophical textbook we learn that "Quality is the inner definiteness of the object, a certain totality of essential properties without which the object ceases to be a given object, while a property is one of the sides of quality", according to Hegel "is in general identical with being, an immediate definiteness". And "quantity is an external definition in relation to the being of the object".

If the quantitative-qualitative indicators of all forms of matter are different, what can they have in common? It is a common substratum and property inherent in everything in this material world.

It has been known for a long time, since the time of Heraclitus, that the material world of everything is causal and that many causes produce a consequence, in this case we are talking about forms of matter (bearers of information about the causes of their existence).

And this emerged or born consequence of the set of causes in its turn becomes one of the causes of the future consequence, and these replacements of the cause by the consequence and their counting back in time were denoted by the concept of motion as one of its forms. I.e. the quantity of causes generates the consequence - the quality of these causes, counting backwards in time, as a complete unit "monad" according to Leibniz. And there is no limit to the alternation of causal stages of motion and the transition of quantity into quality and quality into a unit of quantity with the properties of being one of the causes of a future consequence. Why and how?

The material from which the glass shot is made and in what it is made and who or what makes it are some of the causes of the consequence that took the form of the shot. If that shot glass breaks, the shards of that shot glass are the consequence of many causes, including the shot glass itself with its property.

And it turns out that everything in this world is endowed with the property of being one of the causes of an emergent consequence.

Emergence is not a property of the emerged, but a property of the causes of that emergence.

Destruction is the property of the arisen to be one of the causes of destruction and emergence of a new consequence, which replaces the destroyed causes.

What does not exist cannot have the property of being the cause of its emergence, but what does exist has the property of being the co-cause of its destruction, i.e. nothing can arise and be destroyed by itself, without causes.

A pregnant woman is a quality in the unit of the number of forms of being; the divergence of a woman from her born fetus is different forms - different qualities by virtue of the property of the former pregnant woman to be one of the causes of the generated consequence. With the birth of the child, the causes of that birth are destroyed (there is no more pregnant woman), instead there remain divorced qualities by units of the number of semblances - the pregnant woman's residue and the new generation of her semblance born by her.

Man replenishes his knowledge of the world and himself in this world, and the unconscious form of thinking (reflexion) is replaced by the conscious form of thinking due to reasons: the knowledge of the world and his own self in this knowledge is replenished. And this principle - of arising, generating consequence and annihilation - turns out to be universal, the principle of becoming forms of matter into cause-and-effect stages of motion unified.

Thus by reasoning we find the relationship - quantity-quality-property in number and in relation to the set of numbers (in time and space), which finds concrete expression in our consciousness as a form of matter, a form of motion or a subject of our interest.

It becomes clear what makes everything in this world to be doomed in these properties, why and how the present generates the future and is counted by time into the past, and where the substrate necessary for future emergence comes from and what shifts the phase of time of being materiality.

If the annihilation of some forms of matter by the arisen ones takes place because of some reasons, and one side of these reasons are the

forms of matter themselves (as there is no other in the material world), the other side of these reasons is the immaterial reason, which acts as an action shifting to itself an equal opposition, otherwise there will be no shift from the past reasons to the future consequence.

It turns out that the form of matter with its figurative numbers in numbers limited by space is the extremity of the past, or the extremity of time of this past, acting as a single front as a counteraction to the action it needs, equivalent to the counteraction. If an action has no opposition, there will be no action itself, and if there is no common substratum, there will be no opposites.

### **3.5 Conditionality, Objectivity, Reality**

The causeless "Nothingness" and its causal opposite, matter, form the causal basis of the integrity of any form of being, including man.

By the conventional word "Nothing" we mean the absence of any presence, denoting the sphere between the past and future temporal continuity of eternity, excluding space and other forms of being.

Basically, by the concept "reality" we denote static constancy with its possibilities - integrity, infinity, continuity, and contradictions, it is "is" and "is not", "front" and "originality"; by the concept matter we denote motion with its contradictions such as "statics" and "dynamics"; by the concept "matter form" we denote any limitedness that finds its concrete expression in our consciousness, taking meaning of objectivity.

Objectivity is comparable information about forms of motion materializing in our consciousness.

And we, having subdivided human integrity into such extremes as reality and materiality, have called human integrity the substratum of these opposites, denoting in integrity the information-sensual window of man, who compares information on the forms of motion.

To describe with conventional words and concepts the objective limitations and the process of becoming forms of this limitation, denoted by the concept "form of matter", the process of emergence and annihilation of the material extreme of human integrity, we began with the possibilities of reality closed by its unity, calling this closure with the conventional word "potential", endowed with the function of preserving the

unity of reality. But in the performance of its assignment, which we called activity (energy) in the potential with the triad of possibilities of reality, the continuity released (produced, born by the phenomenon of nature) by reality in the shift in the continuity of its constancy, which we called the conditional notion "motion", is an outside factor.

Nature is action, or continuity of permanence, born by divine reality (in ancient Russia divine reality was called god Rod, and everything that is under the parent, god Rod, was called nature).

But released, born by the phenomenon of nature continuity breaks the balance in the acting potential with the possibilities of reality, which are paired with the external factor and instead of arguments of triad functions in temporal continuity become arguments of pair functions, which with the subsequent release of continuity are paired with it, forming triads. And all this in one realizing energy rotates in a spiral, each successive turn of which repeats the previous turn.

And rotating vector directions of relations with shifts of reality happen to generate points of incident with quanta of incident vector directions, which generates many point potentials, both with function of pairs and with function of triads. And the energy realized by one of this set of potentials is realized by man with arguments of triad and pairings function, with the volume of energy levels realized by tissue cells with the volume of molecular structures, etc. The conditional notion "quantum" means a part of something, and the word "point" means the limit of the boundedness we describe, which merges into a potential on the background of the factor limiting it - the spatial residual potential - and takes on the meaning of "something".

The melded limitedness is a quantum of the material extremity of a person's integrity who melds this limitedness, and the form of the quantum is the melded limitedness encoded by conventions - words and notions - which in our consciousness, according to the melding factors and our knowledge base about limitations, acquires the meaning of image and content (object, thing... etc. of objective forms of being).

The potential carrying out the energy realized by a human being becomes a sensual apparatus of this human being who, against the residue of this potential, compares the arisen limitation, passing it through his consciousness, designating this limitation, by the factors of comparison, by such notions as - curvature, polarity, tonality, latitude, length, height,



frequency-order, attached to the description of image limitations, designated by notions "thing, object, body, field, system, wave", etc. And according to the factors of comparison and degrees of their relation to conditional wholeness and to its extremes, limitations we give names, encoding them with such words as "Sun, planet, star, human body, tissue cell, stone, earth, water, blood, clay, molecule, atom, photon, point, wave, word".

But when describing the subject of our interest, we encounter such contradictions of motion as statics and dynamics, wondering how statics turns into dynamics, forgetting that motion is the unity of these contradictions.

When we denote something by the notion form of matter we give different interpretations to the notion form and matter: we connect matter with the notions "change is dynamics" and form with the notion "statics" and "order", and the form of matter takes the meaning of limited unity of such contradictions of motion as statics and dynamics. The form of matter cannot change, but matter (information) can be represented in different forms, because forms of matter do not change, but arise and annihilate, being replaced by arising ones. If something, meaning boundedness, has changed, it means that one form of this "something" has been annihilated and replaced by another form, not identical with the annihilated one, which is not excluded in the rotation of contradictions of reality.

By "to arise" we mean "was not and became," and by "to destroy" we mean "was and did not become. Whereas the notion of "becoming" will denote the order of substitution of annihilated forms by emerged forms, becoming as opposed to reality.

By identifying the information being merged with the concept "form of matter" we mean motion with its two contradictions, such as statics and dynamics, and say that the principle of becoming forms of matter into causal stages of motion is one. Whereas the stage of motion is a unity of contradictions.

But there are no conventions in reality; reality is unconditional. It is only we who can communicate with conditional signs-words and images, or state our thought on paper, encoding thoughts with conditional images - letters denoting sounds.

And if the writer, by conventional warps - letters encoding sounds, sets forth his thought by sounds - words encoding images and events, the reader dissects these codes with his knowledge, implementing sounds, words, images and events into his thought - this is if the writer and the reader have a common conversational and educational basis, otherwise the reader will not understand the writer.

Movement with its contradictions, such as statics and dynamics, is materialized in human consciousness, taking on the factors of comparison the meaning of a form of matter, or form of materiality, acquiring its individual name - wave, water, sun, planet, star, atom, photon, human tissue cell, person, molecule, letter, word, etc.

After reflecting on the forms of matter or forms of motion converged in our information-sensory window, we come to the conclusion that it is only the current material extremity of our integrity: the message to the future about the past and the forms of originals informing us about themselves are already in the past and are not identical with the information we have converged. And the question arose as to what generalizing concept to denote the past original, which by its actions informs us of itself. And we denoted the acting original, including a human being, by the information we have compared with the concept "the form of being", generalizing the forms of being with the concept "reality".

Thus, we have materialized the current information about the forms of being and divorced it from reality, denoting the merged information with the notion of objectivity.

But the world of forms of being is infinite and eternal, and man, being present in this world, compares this world and finds expression of the material extremity of his integrity in the current information.

To be present is to be wholeness in the presence of opposing extremes of the current information being merged and compared.

Integrity is closure in the presence of the completing extremes, or it is the unity of contradictions (the substratum of opposites).

In our work, we have used the terms "reality" and "materiality" to denote the extremes of the integrity of forms of being, the quanta of material extremity that find their concrete expression in our consciousness and acquire the meaning of objectivity.

If in our consciousness the quanta of material extremity of the forms of being that happen to us find their concrete expression, then we can

perceive information only about the curvature of the extremity of their integrity, but not their wholeness.

And we find the answer to the question, how does the whole cosmos with its contents, which include our bodily form, find its expression in our consciousness? It is not the cosmos that enters our visual analyzers and is deposited in the labyrinths of brain tissue by our knowledge of it.

It is known that all forms of existence - Sun, planets, our corporeality and elementary particles, have their corridors of time and when phases of their fields occur, points of their occurrence with quanta of their curvature are inevitably released, and these points will carry information about reasons of their origin and everything that left quanta of their curvature in the point, including curvature of our corporality, whose quanta were enclosed in this point assimilated by us. Actually, that is why we also see in current information our corporeality, the material extremity of our wholeness present in the world of actual forms of being.

The corridor of time is a continuation of the ontogenesis time tunnel of the form of being, or the field of falling curvature (tension) of the forms of being.

Thus man, accepting the status of reality, becomes a bearer of information about the actual world from everything and everything in this world, which we called man's knowledge about the world, including his "I" in this knowledge.

And when we speak of man, we mentally divide his wholeness into a comparable corporeality, the object, and a sentient soul, the subject, which compares that object.

### **3.6 Subject Object**

We spoke of man as a level of realized energy, with its two forms, potential and kinetic.

We called the potential form of energy in the presence of reality the program of the kinetic form of energy or the soul of realized energy realized by human sensory apparatus, and we called the kinetic form of energy deprived of reality the executive informant of the potential form

of energy, designating the current information in human integrity by the concept "matter".

Thus the integrity of man with its opposite extremes took on the meaning of the information-sensual window of man. Why the window? Because the integrity of man (as the integrity of any other form of being) pulsates, is extinguished, is restored at the energy being realized by the arguments of rotating functions of pairs and triads. When the material extremity of integrity is extinguished, the centripetal information flow to reality is interrupted and the energy soul is not informed, while with the restoration of integrity the centripetal information flow is also restored, restoring the human sensory apparatus as well. Thus, with rotation of contradictions of the reality the information-sensual window of the realized energy of the realized man opens and closes.

And to the question as to how the form of the material extremity of human integrity is destroyed and replaced by the arisen form in the environment of acting forms of being, we find the answer in the book "Theory of Time and Principle of Formation of Matter" and in the book "The Prime Cause of Movement and Time of Existence".

From these books we learn that the material extremity of man's integrity, when it happens in the areal of 360 degrees of angular rotation of relations with the forms of being, leaves quanta of its curvature in the points of occurrence and is annihilated. And already from these individualizing points restoring the extremity of man's integrity with a new form, information about material extremities of actual forms of being, which put quanta of their curvature into these points, "flows" to the soul of energy. And man with his sensual apparatus, merging the current information about the forms of being, himself merges in the current information as a changing material object.

What finds its concrete expression in our consciousness are forms of movement, taking the meaning of a physical body (object, thing, wave) changing in time and space. Whereas our corporeality is also a form of motion, taken by us in our subjective sensations as a changing material object.

When we communicate we subjectively perceive only the object of the interlocutor - his corporality, because his subject is hidden from us, because the subject is not identical with the object and the object is not a subject. And man, manifesting his dual nature, assumes the meaning

of the subject-object, which raises new questions: why and how is information about the forms of being realized in the sensual apparatus of man by thought images and thought words denoting images and events realized.

Thus, step by step, by the method of reasoning, we find the answer to the question of what is realized by man and his information-sensual apparatus, and we say that man realizes the energy being realized, and man's sensual apparatus realizes the potential realizing the energy by this man.

And if the energy realized by man is realized in its two forms, potential and kinetic, then the potential form of energy is realized by the subject, and the kinetic form by the object, or the human body. And while the potential form of energy, as a subject, is realized with the potential preserving reality, the kinetic form of energy is realized by the object devoid of reality. The subject acts as a comparator of information, and the object, as an informer of the subject.

And any changes disturbing the static state of the potential preserving reality are realized by the subject's senses, and the order of vibrations in the range of light and sound frequencies is realized into images and words.

Thus the current information by quanta of the merged forms of being with a certain frequency is realized in our consciousness in the form of objective forms of matter, such as the Sun, stars, planets, physical bodies, matter deprived of reality, but on the basis of human integrity, not deprived of reality. And since the melded form of being through the quanta of its curvature is not this form of being, we will never get in any experimental studies a complete picture of the actual forms of being. We can only assume them by constructing theories about the universe.

Thus, in our reasoning, we have separated objectivity from reality by changing our attitude toward the concept of "objective reality". This means that reality is not objectivity, and that objectivity is not reality, and that time, which extinguishes the past continuity of the permanence of reality, is a product of our consciousness, since there is no past, the past is only in our consciousness.

But it turns out that not only is there no integrity of the thinker in reality, there is not even space, since reality is a sphere between the past

and the future temporal continuity of eternity, which excludes the spatial gap. And yet space is in us.

Space is the continuity of permanence born in the wholeness of man, limiting the materiality extinguished by time.

Put another way, space is the natural continuity of static permanence in the integrity of the subject-object, unleashed by reality.

When we merge quanta of extremes of actual forms of being, dumping these quanta into the time tunnel of ontogenesis of our corporeality, we are awake, and when we merge current information stored in our memory, we think with images or sound combinations denoting these images, or we dream.

### **3.7. Inevitability**

Often in philosophical writings, the concepts "reality, objectivity, and actuality" refer to the same *phenomenon of nature, including space and time*.

But in our work we have separated these concepts by their meanings. With the concept "reality" we denoted static constancy denying dynamics; with the concept "objectivity" we denoted forms of motion materializing in our consciousness, denying statics; and with the concept "reality" we denoted forms of being independent from our consciousness, including our integrity in the presence of opposing extremes - reality and materiality.

But reality, unlike the limited in time and space causal forms of motion, is causeless and eternal because its unity is preserved by its possibilities, such as its unboundedness, integrity and continuity of its permanence.

If reality is limited, there will be no unity, because the limiting factor will be something else that excludes the unity of reality. If reality is not holistic and closed by its contradictions in the temporal continuity of eternity, there will not be its permanence, and if the continuity of the permanence of reality is interrupted, there will not be reality itself.

And it turns out that the unity of reality is preserved only when the necessities of its unity, which are realized by possibilities, are closed by this unity into one potentiality.

So we find the necessities not of reality but of the unity of reality, because reality itself has no need to be or not to be, because reality is an uncaused "Nothing," while unity is already a static permanence by virtue of causal necessities.

And we have seen in this static permanence the golden mean of eternity, persisting between its past and its future temporal continuity.

We began to see the preserving unity of reality in the continuity of its permanence in two ways: on the one hand, the assignment of potentiality by the possibilities in action is fulfilled - energy is realized, which is related to the concept of "dynamics"; on the other hand, in the preserving unity we saw inertia, related to the concept of "statics". And motion has taken on the meaning of the unity of contradictions, such as statics and dynamics, realized by the main forms of realized energy, potential and kinetic forms of energy.

But with the shift of statics in the continuity of its constancy into the acting potential in successive stages of motion the natural continuity is released, changing vector directions of relations, which does not exclude coincidence of possibilities into potentials with the function of pairs and triads, whose arguments rotate in a spiral, leaving quanta of their curvature in common points of the coincidence, while listening. And already arisen points with quanta of rumored forms of movements carry out activities realized in forms of being. And one of such point potentials realizes energy realized by man, which turned out to be inevitable under condition of those reasons, which generated integrity of man, while the potential itself, which realizes energy realized by man, turned out to be sensual apparatus of this man, which took in this world of movements the meaning of form of being. And with this sensual apparatus man becomes not only a participant of movement, but also a witness to events: he sees, hears, and feels the forms of movement materializing in his consciousness. At the same time, at different stages of his ontogenesis, like any form of being, man himself turns out to be one of the many causes of the resulting effect. By happening to the existing forms of being, man leaves quanta of curvature of material extremity of his wholeness in common points, thus changing the happened forms of being, changing.

To happen - to reduce by rays the vector directions of relations to a common substratum.

Since any form of being, including man, is a level of realized energy with rotating arguments of functions of pairs and triads, depending on what arguments of functions of pairs the forms of being happened, the result of their listening will be the same. In some relations, the points of hearing are realized either in independent potentials - divorcing the happened forms from each other, manifesting the meaning of divorcing force, or they will appear in relation to the integrity of one of the quantized parties, one of which takes the meaning of the consumer of points of hearing, or recipient, and another party - the supplier of quanta of its curvature, or donor.

And, finally, in the human integrity itself there arise points of rotating arguments of pairing and triad functions, which are realized in tissue cells and in elements of molecular structures of these cells, which are the basis of gene information in the human integrity...and so on and so forth.

With inevitable reality and conditional objectivity in our work we will face with the notion that all that is - as it is and can't be otherwise - is an inevitable consequence of necessary for this consequence and one of the reasons of inevitable consequence.

The world of everything is inevitable, everything in this world is inevitable, while an unplanned subject-object occurrence with a functioning form of motion with an unpredictable consequence is denoted by us by the concept of "chance.



## **Section 4. peculiarities of the interrelationships of life forms**

### **4.1 Metabolism and energy-food relations**

We know time dimensions, such as photon, atom, solar system, Universe, human tissue cell, man, family, state, which differ in structure of construction from stone, clay, metal, air by presence of nucleus, that characterizes "living forms of being" which alternate in generations in contrast to non-centralized structures. And yet these unambiguous and ambiguous in structure forms of being, both nuclear and non-nuclear, are built and destroyed according to the same principles.

The fact that everything in this world is built and destroyed is known to us and does not require any special proof, but why everything is built and destroyed, born, generates and dies - this requires philosophical understanding.

Based on the teachings of Lomonosov, matter is not added or diminished, and everything is built at the expense of the destructible, which maintains the overall balance of matter.

This means that when physical bodies are being built, they get their building material from bodies which are being destroyed, and when they are being destroyed they give their spent material to bodies which are being built, and the overall balance of materiality remains constant. Blood in the human cardiovascular system circulates from the heart to the tissue cells and from the tissue cells to the heart thanks to bio-pumps - human tissue cells assimilating from arterial blood the brought in substances, contributing to the drop of arterial pressure, and dissimilating their metabolites into the venous channel, contributing to pushing the blood in the venous channel to the heart. Without bio-pumps opposed to the heart pump, the heart cannot overdrive the blood in the vascular system.

But the forms of movement that consume or give out their waste material must themselves be in the role of building material, leaving one form of being and pouring into another form of being as building material.

In reality, nothing shifts anywhere, while in objectivity, a person, a "brick" of a society of his own kind, can leave one society and enter another one; a tissue cell (sperm cell), a "brick" of a human body, can

leave the body of one person and move into the body of another person (eating eaten by eaten); a photon can leave the composition of one atom and go into the composition of another atom, just as an atom can migrate from one molecular structure to another, from the membrane of one cell to the membrane of another cell, or as the solar system can leave one constellation and go into another constellation. And this process of a form of movement releasing its spent building material and accepting someone else's material for its restoration is called metabolism, and the spent material in biology is commonly called a metabolite, which can be of the photon, atom, cell, human, solar system, and even the universe level...

In this case a "monad", which according to Leibniz can also be a god, and in this case integrity, consuming another's metabolite for its restoration, takes the meaning of a recipient, and for a consumer of its metabolite takes the meaning of a donor. Whereas this relationship between the donor and the recipient is in the nature of an energy-eating relationship.

But if a "monad" also accepts a donor's metabolite into its composition, and gives its metabolite to a recipient, then any form of materiality turns out to be bipolar, one of which is a source of metabolites and the other is a sink. And we introduce such concepts as cationic polarity and anionic polarity to fully generalize all forms of motion, assuming that the anionic polarity is the absorbing side of the "monad" and the cationic polarity is its excretory side. These human polarities manifest themselves as its absorptive and excretory systems, while the nerve cell (glia) has these polarities in its relations with each other, mainly in the form of "axon" and "dendrites".

The question arises, do we need biologization of astronomy, nuclear physics and chemistry when it comes to the work of the human thinking apparatus, do we need knowledge about metabolism and energy-food relations in the same sections of science?

We need it, if only to give a figurative idea of the relations between physical bodies - elements in the molecular structures of human tissue cells, tissue cells themselves, between people, and even between stellar systems - elements of the molecular structures of the universe, otherwise we would not be able to see them: they would not exist for us. This knowledge will be useful to us when considering the nerve cells

that redistribute the flow of information in the CNS and regulate the order with their dendrites, without which there can be no coherent thought.

With the biologization of stellar-planetary systems, we not only compare the ovum with these systems, but also address the unity of the principle of becoming forms of matter into causal stages of motion, leading us to the knowledge of the causes of their being, starting from the photon level and ending with the Universe.

Using this unified principle, we can give a figurative idea of the formation of star-planetary systems, of their relations to each other and, most importantly, to man, who with his polarities excluded would be in isolation, he simply would not exist, as there would be no star-planetary systems without their polarities.

But before comprehending the principle of formation of stellar-planetary systems and atoms with their nuclei, we should comprehend their polarities caused by their nuclei.

The nucleus of the solar system is the Sun-level star, the source of metabolites, and the planets in the Sun's gravitational field are their consumers. Similarly, in the atom: the proton is the source of metabolites, the electrons are their consumers. The Sun and the proton are destroyed, and the planets and electrons are built by the decay products of the Sun in the solar system and the proton in the atom, just as the human embryo in the egg is built by the decay products of the egg's nucleus.

Thus we found in planetary systems both donors in the person of a star and a proton, and recipients in the person of planets and electrons, calling such an energy-eating connection between them linear, because a planet can never become a donor of the Sun, just as an electron can never become a donor of a proton. Whereas the planet Earth, as a nucleus in its gravitational field, turns out to be a donor of its satellite the Moon - this is also metabolism.

The notion of metabolism is not used in physics, chemistry or astronomy, because a certain charge of matter released by a planet or element is not considered spent material. Physicists know through-passage-penetration because they see motion as mechanical movement and change. But about that later, as we need to understand how the solar system and the atom turn out to be bipolar forms of being.

Since the Sun-proton is destroyed, and the planet-electrons are built up by metabolites of the Sun-proton, the rest of this flow of metabolites, not consumed by the planet-electrons, forms the gravitational field of the Sun itself, which is limited by the flow of metabolites of neighboring stars.

And that rest of the flow of metabolites of the Sun-proton, which was not consumed by recipients, building (forming) planets-electrons, and will determine the cationic polarity of the system, and the corridor of the gravitational field of the system, formed by planets, consuming flows of metabolites of the Sun and neighboring stars, form the anionic polarity of the system. Thus, planetary-type systems with a nucleus and building daughter systems with nuclei, planets and electrons appear with two poles, one of which is anionic polarity, equivalent to the consumption of planets being built in the system, and the other is cationic polarity. Which in the nuclear-free structure - neutron, black hole, blood form element, including sperm, there is no (no nucleus and no two polarities).

Above we noted the mechanical movement of metabolites of planetary systems' nuclei in their gravitational field, denying such movement in reality. If the gravitational field of the Sun is formed by elements of gravitons, the mechanical flow of the Sun's metabolites as photons is excluded, because the gravitational field is not empty. So, each element of the Sun's gravitational field, starting from the protuberance crown, like a bionic pump, receives the required photon charge from the crown with its anionic pole, and passes its metabolites of these photons' equality with its cationic pole through centrifugal channels from the Sun to subsequent recipients. So from the Sun to the planet and to us on the planet by the principle of correspondence, relay race and dominoes, from graviton to graviton, from element to element information about the Sun's photon is transmitted, which has taken for us the meaning of particle of light or energy quantum level.

## **4.2 Stages of ontogenesis of planetary type systems**

We know that nothing is eternal in the material world and any form of matter is destroyed and replaced by another form. How is it then that information is preserved by our knowledge, why and how?

In the Earth's biosphere there are similar forms of animals, including humans, information about which has been preserved for thousands of years. So the Earth's biosphere is the carrier of information of these animal species because they alternate across generations, and each successive generation duplicates the species of its producer. Similarly, human tissue cells alternate in generations, which preserves information about them. And how is the information about species of atoms and star-planetary systems preserved if the principle of formation is the same?

Obviously, they also alternate in generations, otherwise they would not exist long ago.

Any flare on the Sun leaves a trace on the Earth, and when the Earth becomes a star, it will repeat that flare, transmitted from generation to generation, like a "birthmark".

Thus, we find a clue: answering the question of how information is preserved in a world where nothing is permanent, by the alternation of carriers of the causes of their existence in the generations.

The biology of atomic physics and astronomy tells us that everything in this world is generated and generates according to a single principle. We know from our own observations how humans are generated; this does not require literary confirmation, although there is such literature on embryology.

Having received the genetic building material from the male half, in the process of mating, the construction of the future human being, duplicating his parents in his image, begins in the ovum of the female half. But while this future human generation - the carrier of information about the causes of its being - is in the mother's womb, one-way energy-food relations are established between the embryo and the mother, the fetus receives from the mother the building material with which it is formed, and its metabolites are dumped into the sack - alantois.

This is how the daughter-mother energy-food relations between the fetus and the mother system are carried out, until the fetus is formed into a double of the mother system. And then a human being comes

into the world, as the mother system dissimilates its double in the direction of the least resistance.

Similarly, a tissue cell doublet is formed.

Receiving building material from a blood-form element, the tissue cell builds its doublet, a daughter cell. And similarly, a one-way (linear) energy-eating relationship swings between the mother system and the daughter formed in the womb of the mother system.

When the strands of nucleic acids, chromosomes of the mother system and centriole are paired with the doublet, the doublets diverge, and the cell divides into the mother and daughter.

But in the literature data on physics and astronomy, the facts of formation of daughter systems in the womb of the mother system and division of the system into the mother - original and daughter - double of the original, are not covered in the proper light. Some explosions of photon and release of raging with heat matter, from which stars were formed, from cooling remnants of which planets, comets, bolides, meteorites were formed. And some cataclysms, and disintegration of stars and planets into many parts. At the same time, for some reason in the atom there is a neutron with the proton mass, while the atom itself has this proton mass. And somehow in the molecular structure, the elements exchange electrons depending on their valence. Electrons, according to false notions, can migrate from atom to atom, leave one atom and penetrate into another atom (electrons to another atom are not allowed to enter).

Where are the mother systems, where are the daughter systems and where are the father systems, and where did the photons, atoms, protons, electrons, neutrons, comets, stars, planets, black holes, and what is their role in the formation of the future generation of planetary systems come from? There is no information. This is the picture of the universe presented by physicists and astronomers, which is not acceptable in this paper.

How many planets with their gravitational fields and satellites in the Sun's gravitational field, so many doubles (daughter systems) are formed in the Solar system: Saturn with its satellites, Jupiter with its satellites, the Earth with its, so far, only satellite, the Moon. Both the Solar System (atom) and its duplicate systems (elementary particles) are in a filial-maternal energy-feedback relationship. The mother system

receives information from stellar systems from space in the form of their metabolites and transmits this information to the doubles being built, which get the basic genetic information for their formation from the mother system core. In the solar system the Sun is the nucleus, in the atom the proton, and their duplicates are formed in the systems - planets (electrons) with their gravitational fields and satellites.

When the duplicates are formed, they will leave the Solar system and become independent star-planetary systems, and the system that generated them (conditionally, the Solar system) will be left without daughter systems, which will be one of the reasons for the "explosion" of the core (the Sun) and the shock wave divergence of its mass, forming a "black hole" in space that does not let information from neighboring stars through itself. The mass of the exploded star, impenetrable by the beam of light, is the black hole.

Thus, with the disintegration of the system into duplicates, new generations of its planetary-type systems born in the mother's womb and the black hole will appear in space, electrons and neutrons will appear at the atomic level, the appearance of which was preceded by a proton flash (emission of a quantum of light).

The blood element and the sperm cell, like the black hole and the neutron, appear during the disintegration of the system's nucleus - the tissue cell, after the produced doublet comes out of this cell.

Thus, if the mother of the generated doubles was a system with a nucleus, the father of the generated doubles is a black hole, or a neutron - the former system whose nucleus mass by a shock wave disintegrated in the gravitational field and collided with the gravitational field of the core of the surviving system, fertilizing it. And in the place of collision of the mass of the disintegrating nucleus with the extremity of the gravitational field of the acting star a new construction appears - an asteroid, which rushes to the nucleus of the system in the direction of the least resistance by the force of ejection of its metabolites, forming the comet tail, and becomes a born planet (example of birth of Venus and the Moon planet).

So there is no more secret - the Sun was once a planet, just like the Earth, and the Earth is an asteroid at the head of the comet.

Based on the above, we can outline the main four stages of ontogenesis of planetary-type systems, including tissue cells, these are the stages of anion, stabilization, cation, and neutron.

The anion stage is the stage of system formation in the field of the parent system nucleus.

In the anion stage the structures of the system are formed - the nucleus and its gravitational field. In tissue cells, the nucleus with centriole and cytoplasm with all inclusions duplicating the mother cell are formed.

The stabilization stage is the completion of system formation.

In the stabilization stage, as the cell, solar system, atom, systems appear to assimilate the decay products of other systems and dissimilate into the environment their decay products into the equivalent of their assimilate, in one case representing a recipient, in the other a donor.

The cation stage is the beginning of the system's decay into duplicates.

The neutron stage is the nuclear-free completion stage of the system.

The life cycle of the system ends with the neutron stage, where there are no daughter systems and no nucleus, which has decayed into its constituent elements, the mass of which has occupied the field of the former nucleus. (This is a black hole in space; this is a blood element - including a sperm cell and a neutron, the mass of which is equal to the mass of the decayed proton).

In the neutron stage, systems participate in the conception of a new generation of similar systems by supplying genetic information (building material) to systems in the anion or stabilization stage. One example is the fusion of a sperm cell with an egg, after which the egg begins to split into daughter cells. Why in one case a female is born and in the other a male is born depends on the moment of conception in one of the phases of the pulsatile integrity of the parturition. You can learn about this in detail in the book "The Primal Cause of Motion and the Time of Being.

Nuclear physics and astronomy do not have such information about the stages of ontogenesis of the planetary systems they study, while the atom or the solar system with their biologization can be considered as an analog of an egg cell, and a neutron or a black hole as an analog of a sperm cell or a blood cell.



Since the stages of ontogenesis in all systems are similar, we introduce the concepts generalizing these phenomena - "anionic", "stabilization", "cationic" and "neutron".

The knowledge about stages of ontogenesis of existence forms will be useful for us when describing the process of synthesis and analysis of molecular structures of matter and generation of time phase curvature fluctuations with frequency of alternating in generations of temporal measurements. At the same time the alternation in generations of temporal dimensions gives us an opportunity to understand why the unambiguous information is preserved in the human tissue.

### **4.3 Inter-system relations**

Any system in the anion, stabilization, and cation stages, except for the neutron stage, is bipolar. In the anion stage, the anion-acceptor polarity is expanded and the cation-receptor polarity is narrowed, and in the system in the anion stage the building process dominates over destruction.

In the stabilization stage, the anionic and cationic polarities are equivalent; what charge the anionic polarity takes on, such charge the cationic polarity releases. By the word charge, we mean the balance of materiality according to the conditional space-time criteria of dimensions.

In the cationic-receptor stage, the cationic polarity is expanded and the anionic-acceptor polarity is narrowed, and the destruction process prevails over the construction in the system.

In the neutron stage there are no polarities, because there is no alternative source, the nucleus, and all building processes are excluded.

Thus, tissue cells, as well as elements of their molecular structures, can enter the energy-eating relations with their opposite polarities selectively, by their stages, the carrying capacity of which corresponds to the "valence" of the donor and the recipient.

Since in the stabilization stage the polarities are equivalent, the selectivity reduces the system to its valence equality to the donor and the recipient. And in the anion and cation stages, when the poles of the system are not equivalent, both the donor and the recipient of this system will be unequal (the age qualification).

This is how each element enters the energy-eating relationship according to the valence of its fields, which builds the molecular structures in the tissue cell, and the cells lining the organ tissue. Systems at the stabilization stage can build whole strands (chains) of molecular structures, and tissue cells build strands of tissue structures.

Both contact and distant energy-eating relationships are swinging between the tissue cells in the human organ system.(In this case we are talking only about relations of tissue cells to each other, because there are no distant relations between cells and the matter brought by the blood, only contact - blood-cell).

Since any energy-eating relationships are linear and the last instance of this linearity dumps its metabolites into the environment, the human organ system becomes emaciated if there is no input of the building material for the forming generation of carriers of unambiguous information.

Contact mating energy-eating relationships gave an impetus to the formation of the generation, and then the mother's system already feeds the fetus, and if it is emaciated, the generation will not mature in the mother's womb.

But man, as a recipient, feeds by consuming that matter by selectivity, which will be transformed from cell to cell by contact-distance energy-eating relations between them. And if the initial instance of this relationship is the absorbing system of man, the last instance is his excretory system, from where the metabolite is dumped in the direction of the least resistance. And one of the suppliers of the building material for the tissue cell turns out to be the substance brought by the blood, whereas in the substance are the metabolites of the tissue cells. And between the tissue cell, consuming a metabolite from blood composition, and the source of this metabolite there are distant energy-eating relations, whereas between the cells on the level of elementary particles there are contact energy-eating relations on the principle of donor-recipient correspondence, which are also linear. It is when a cell assimilates a metabolite with its anionic polarity from the donor, and with its cationic polarity gives the recipient the equivalent of the accepted metabolite.

Alternatively, due to the linearity of energy-eating relations, each cell arbitrarily becomes a source of its metabolite in the form of an element of molecular structure of its membrane.

Due to the transition of the element of the molecular structure of the membrane to another stage of its ontogenesis, this element no longer corresponds to this molecular structure in terms of energy and food relations and leaves it in the direction of least resistance outside the cell. As its place is taken by the correspondence - restoring the cell membrane, this correspondence becomes the direction of the greatest resistance for the return of the metabolite into the cell.

But in the organ tissue, due to the linearity of energy-feeding relations, each cell has its anion polarity open, which closes only at the stage of neutron - a blood form element leaving the tissue due to the mismatch. And the recipient of the donor can become that and only that tissue cell, the membrane of the anionic pole of which, releasing its mismatch into the cell composition, accepts into its composition the mismatch, which can become the donor's metabolite restoring the integrity of the membrane.

Thus, the cell in energy-nutrient relations as a donor is arbitrary, but as a recipient it is selective. We can eat something, becoming a recipient of something or someone, and for another it will be inedible, and he will not be a recipient of our donor.

This is how the donor-recipient, the chains of molecular structures in the cell and tissue of the human organ system and the human organ system itself with its connection to the contact relationship, and the distant energy-eating relationship, which is linear, are built according to the principle of correspondence.

Basically, energy-eating relationships can be subdivided into mating energy-eating relationships, filial-maternal energy-eating relationships and arbitrary inter-systemic energy-eating relationships.

#### **4.4 Principle of correspondence**

With transition from one stage of its ontogenesis to another stage the element (atom) of molecular structure of a tissue cell loses the connection with elements with which it is quantized and establishes rela-

tions with other elements in accordance with their requirements and their needs.

If we imagine the cell membrane as a homogeneous molecular structure, the elements of which are closed between each other by energy-eating relations, then we will understand why elements leave the membrane of one cell and pass into composition of another cell. At transition from one stage of its ontogenesis to another, an element of the molecular structure of the cell membrane will rearrange itself in the direction of least resistance by correspondence either into the cytoplasm of the cell, or leave the cell as its metabolite and will be consumed by the forming carriers of information.

The element, leaving the membrane of one cell and becoming a constituent of another cell, turned out to be a migrant, which with transition to the next stage will end up in cytoplasm of the cell and will be carried away by transport RNA as a building material for future construction of the cell.

Such transitions of carriers of information causes of their being from one environment to another, we called migration of unambiguous information. The time dimensions of levels of a photon, an atom, a tissue cell, an individual of a biological species migrate in the same way, e.g. a man, who according to his age and sexual orientation, goes from one society to another, migrating throughout his life.

(We will not consider all forms of migration, since the principle of migration is the same.)

When elements migrate from some molecular structures into other cell structures or from some cells into other cells, the migrating element turns out to be not only an informant of reasons of its being in the zone of its migration, but also a potential building material for future construction of the system in the system, regardless of the form (structure) of its construction. But the migration zone of the element is limited, as well as the life cycle of this element, which has generated the doublet, passed the building material to the anion and is destroyed, leaving the generation generated by it to replace itself in the molecular structure of the cell being built. And the information about the migrant element through the generation generated by it remains already in the new tissue cell or in the new molecular structure. So, if in the migration zone the original information in the form of the element-atom was transformed,

then outside the original the double of the original is transformed - the born elementary particle with the nucleus-electron. Whereas the original, the atom, which is left without the doublet, becomes the source of its metabolites - in the form of photons. In the first case metabolite of the atom was its doublet - the born atom, in the second case - photons forming the information field of this atom, around which recipients of its metabolites are concentrated. For this reason, the flux of "negatively charged" electrons in a conductor is directed towards "positively charged" cation donors - sources of photon flux. But since not all elements can be recipients of sources, they take the role of insulators between potential recipients and donors, divorcing them by themselves.

In contrast to the elementary particle born by the migrant, the stream of migrant metabolites (photons) is consumed by recipients - other elements in the molecular structure of the cell, while the elementary particle with a nucleus - electron, passes to the stage of an atom, repeating the parent species, and information about the migrant element in the cell remains.

Similarly, information about metabolites (photons) of the migrant remains in the recipients of this information.

If the migrant was at the stabilization stage, it concentrates its metabolites in the zone of its migration to recipients, while polarizing between cations and anions - donors and recipients. The migrant element substitutes its anionic polarity for the donors and its cationic polarity for the recipients, which does not rule out molecular chains with a linear current of information.

Since temporal dimensions are coincident and migration in migration is not excluded, where some of the coincident temporal dimensions acquire the meaning of the current information conductor, and the coincident ones acquire the current in the conductor of this information between potentials, we, face with the conditional principles of information current:

- The correspondence principle is when an element migrates in the direction of least resistance from some elements to others, from some molecular structures to other molecular structures that satisfy its energy-feeding needs;
- the relay principle - when an element polarized between a donor and a recipient takes away from a donor a quantum of information, and gives

its quantum of information to its recipient - (an element takes away from a donor what it needs and gives to its recipient the equivalent of what it consumed, what is required of it);

- the domino principle is when a quantum of information, migrating, knocks out a mismatch from its migration zone and takes its place by matching.

In this case everything is built, destroyed and migrates in the direction of least resistance according to the principle of correspondence, relay race and dominoes.

#### **4.5 The Relay Principle and Domino Principle**

Elements in the stabilization stage, entering into energy-drinking relationships with both donors and recipients, form chains of molecular structures, where each element in this chain receives a quantum of information from the donor and transmits to the recipient its metabolite equivalent to the received quantum, which gives a picture of moving information. Such chains of molecular structures in a tissue cell, form chromatin filaments, nucleic acids, proteins and other molecular structures, transmitting a certain charge of information according to the baton principle. And in the gravitational field of the Sun chains of molecular structures turn out to be transformers of unambiguous information from its source - protuberances of the Sun, to our analyzers, realized by light stream. The link in the chain of molecular structure of the Sun's gravitational field is supposed to be a "graviton" element with a nucleus - a proton and one doublet - an electron, whose metabolite is a photon. And the doublet, goes to the stabilization stage and, polarizing, becomes a graviton, which does not interrupt the chain, and the light flux is not interrupted.

Thus the photon flux is transformed from the Sun to the Earth from graviton to graviton on the baton principle, being a universal building material for all Earth elements, including the Earth itself. But already on Earth, elements with multiple electrons, which does not exclude fluctuations in needs and requirements and in the change of donors and recipients. And it doesn't matter how many elements turn out to be system donors and how many recipients, the main thing is that all systems entering into contact energy-eating relationships transform information

according to the principle of matching, relay and dominoes in the direction of least resistance.

The relay principle gave a figurative idea of a linear shift of information from the conditional source to the acceptor of this information. But, besides the linear shift of information, we need a figurative representation of the angular shift of information as well, otherwise, apart from the spectrum of the light stream falling on our visual analyzers, we cannot explain the angular shift of information realized by a moving object, and we cannot explain the reason of interruption in the information flow chain by other information.

So, the current of information, in a circuit according to the baton principle is linear. In this chain some elements pass to another stage of their ontogenesis and as a mismatch drop out of this chain and their place is taken by other elements with correspondence. But when a system, an element, drops out of the chain, interrupting its linearity, it can lead other links with it, or knock out a mismatch from another chain and replace it with itself, taking its place. At the same time it interrupts linearity of another chain as well, and becomes a source of information current in the past chain it left - this is an angular shift of information. And the exit of information from linearity, which entailed a series of knocking out carriers of information from other linearity, is an angular shift of information from linearity and is a domino principle shift of information.

Thus, with the transition from one stage of its ontogenesis to another stage, an element of molecular structure of a tissue cell leaves the linear chain of energy-eating relations of one molecular structure and is connected to another chain instead of the one that was knocked out of it, according to the domino principle.

From birth we migrate according to the principle of correspondence, relay race and dominoes and leave life finally when we stop responding to the requirements and needs in the energy-food relations in this temporal dimension.

#### **4.6 Spectrum of an oscillatory circuit**

Since motion is materialized in our consciousness, any forms of motion are realized in our consciousness as forms of materiality and their states:

- The inertial form of motion is realized by the preserving statics or zero instance of motion;
- the linear form of motion is realized by a shift of information from something to something;
- the corpuscular form of motion, is realized in the form of materiality, physical corporeality, object, thing, object, particle;
- oscillatory form of motion is realized by rotation of vectors of shift of current information in opposite directions;
- the wave form of motion is realized by the dynamics of rotating contradictions of polarities (with alternation of contradictions - is, is not);
- The corpuscular-wave form of motion is realized by alternation of materiality forms with curvature contours of rotating polarities dynamics;
- evolutionary form of motion is realized by substitution in the corpuscular-wave form of motion of one kind of materiality forms by another kind, what in biology is usually called phylogenesis of a kind of form of being, briefly repeated in ontogenesis of the individual of this kind;

Having refreshed the memory of the forms of motion, we will also be able to reason about the spectrum of vibrational circuits unfolded by the information field of their inductors, such as the proton in the atom, the Sun in the solar system, the nucleus of the tissue (nerve) cell in the human cell. But in the cosmos there are many stars of different levels, with different frequency of generation change. And each star has its own information field, falling by a particle of light - a photon on our visual analyzers. But since there are no free photons outside atoms, the donor atom in the energy-eating relations by the principle of baton transfers to the recipient atom in the human visual apparatus a photon, information about which migrates from element to element in nerve fibers of human central nervous system, and a person sees light when the wave of migration reaches his sensory zone.

But what a huge variety of forms of being with their colors and spectrum of tonalities in the cosmos and on the Earth. So, a photon is different from a photon, and this diversity in the elements of molecular structures of the human cell will form electrons - future protons, which



themselves will become the sources of this spectrum of diversity, otherwise the possibility of information transfer by the baton principle would be excluded.

Human nerve cells are similarly polarized, their metabolites being elements of their molecular structures. Whereas inductors of information fields of these cells are their nuclei. And just as the Sun-proton waves with protuberances, generating shifts in its gravitational field, so the cell nucleus waves with ejections of elements from its molecular structures, distorting its membrane by shifts in cytoplasm. And the cell membrane "waves" with distortions, releasing metabolites with different frequency. And in the contact energy-drinking relations between cells the migrating element from the donor cell membrane to the recipient cell membrane passes stepwise with curvature of the current stage of its ontogenesis. And between donor and recipient membranes these curvatures, in order of priority, are realized in current information for each quantized system separately: one loses something - this is donor, another gains something - this is recipient. And in circuits of oscillatory form of motion, some element is drawn, which has migrated from donor's membrane to recipient's membrane. In the order of successive elements, a corpuscular-wave form of motion is drawn. And in the corpuscular-wave form of motion the stages of ontogenesis of elements represented the amplitude of the oscillatory circuit with the length of time of element ontogenesis, and the ontogenesis of atom itself turned out to be the amplitude of the corpuscular-wave form of motion with the frequency of generations of this kind of element, i.e. the amplitude of corpuscular-wave form of motion turned out to be the frequency of oscillatory circuit with the amplitude of stage of element ontogenesis. Similarly corpuscular-wave and vibrational circuits are arranged between quantized elements as well, but with frequency of photons alternating in generations. And since the proton, being at the stage of forming electron, was replenished by photons of different levels alternating in generations, it turned out to be the source of a wide range of vibrational contours with frequencies of different colors, tonalities and vector directions.

All the above is not present in reality - there is no light, no color, no corpuscular-wave form of motion, no motion itself - all this is only fluctuations of convergent and divergent vector directions of the degrees of

relations of possibilities of reality when it shifts from the past to the future.

#### **4.7. phenomena on earth and in space**

In the causal world of movements there are no causeless phenomena, but in the tunnel of time of our being the current information about the form of movement is perceived by us as a causeless or accidental phenomenon of nature, because the causes of this form of movement lie outside the tunnel of our time and the current information about them is not complete but episodic.

If information about the extremes of forms of motion lie outside the tunnel of our time, like the cosmos, such formlessness is unknowable. This also applies to events, etc.

But our material basis does not preclude the coincidence of similarities not similarities one within another. If the solar system combines not only planets, but also human corporeality, which combines tissue cells, which, like the cosmos, are dotted with myriads of stars - nuclei of elements of their molecular structures similar to the solar system. This means that the likeness of man can be born on an electron, and those events that accompany man on Earth are a repetition of events on an electron in another dimension.

And when we want to describe the shape of the universe, we ask ourselves: maybe it is the likeness of a human tissue cell, or another biological species, or maybe it is the likeness of a person or the solar system, an atom or a photon. But in any case it is a temporal dimension in the tunnel of temporal continuity of eternity.

Thus, substance rotating information in the tunnel of our time does not exclude any form of motion, any event in combining semblances with space-time difference, which can explain any phenomena of nature, including reasons of origin of biological forms of being on the planet and even tsunami.

One of the first to address the question of the origin of biological forms of being, mainly man on Earth, was Plato, who, through Socrates, told us how the Father molded human physicality from inert matter and gave it a soul, bringing it to life.

Over time, many theories were written about the origin of living forms of being on Earth, but none of them could answer the question of why and how non-living nature comes to life. And then it was decided to turn to the cosmos - living matter hovers in the cosmos and dissipates in the spheres of the Earth, sprouting living forms of being. And Vernadsky's theory of panspermia arose; biologists had no other explanation for the origin of life in the non-living world.

When we realized that there is no living and non-living matter in reality, we did not have to translate non-living into living and living into non-living. We simply subdivided known to us forms of being into centralized and decentralized systemic and non-systemic structures, into biological and non-biological forms of being according to factors of comparison, form and content, and said that nothing living could arise in non-living.

So in our reasoning, not only biological forms of being came to life, but also non-biological forms: - the universe, solar system, atom, photon, etc., and in the presence we found no absence. Even the Universe turned in our reasoning both into an atom, an egg, and a particle of light (photon) in the tunnel of combined temporal dimensions.

The main thing that we learned in our work is that all the listed above systems of planetary type, including human tissue cells and the man himself, alternate in generations, accumulating not only their genetic information, but also external information, changing. So, in the process of alternation in generations atoms at the stage of anion could accumulate generic - species and non-species information and to pass from one species to another, from atom with one electron to atom with many electrons, ...that we called mutation or evolution.

Of course, if at formation of an asteroid at collision of a black hole with the Solar system there were no other elements except gravitons in the gravitational field of the Sun, then from somewhere they must have appeared in the nascent asteroid, which became the planet Earth. Moreover, if the Earth grows in the gravitational field of the Sun - this means that from somewhere the Earth gets elements that it did not have before, whereas similarly electrons grow in the electromagnetic field of the atom. And this means that as the ecological niche changes, so will its endemic. But in this case we are interested in the emergence of bio-

logical form of being on the Earth when the elements of its molecular structures change.

It is known that water in water basins and from the Earth's soil evaporates, and steam turns into both light clouds and thunderstorm clouds and, condensing, falls as raindrops back to the Earth, filling water basins and irrigating the Earth's soil. But the stages of motion are irreversible, and the raindrops cannot be water-basin drops. Where clouds form, the temperature drops to minus thirty degrees and below, while steam condenses to zero degrees. So steam could not form clouds and thunderclouds.

But we know the formula of the water molecule is  $H_2O$ , so the Earth sphere rich in free - born oxygen elements (at the division of the oxygen element into its parent and its doublet) must mix with the sphere rich in free hydrogen elements at the moment of their formation in this ozone sphere. Of course, the atoms of the element hydrogen stand on the first step of the evolutionary form of motion in the incipient planet, they are the first to appear at the collision of planetary-type systems, while oxygen is already one of the subsequent steps in the evolutionary ascent of atoms with one electron to atoms with sixteen electrons and higher.

During protuberances ejection of the Sun gravitons of the gravitational field of the Sun shock wave migrate into the gravitational field of the Earth, where they quantum with aborigines of the Earth atomic sphere, increasing their potential due to consolidation of flows of information and free neutrons laying the basis for the future generations of alternating generations of atoms.

It means that forming electrons in gravitons, with each generation of atoms are replenished in number of photons, and in each new generation of atoms there are extra electrons not typical for graviton, including new electron satellites, like the moon in the gravitational field of the Earth.

Thus in the process of mutation a kind of atom appears - the element hydrogen, which combines with the free (born) element (ion) of oxygen to form a water molecule (in this zone of the atmosphere, the Earth's ionosphere, oxygen elements (ozone) mutate as well, by correspondence entering into energy-eating relations with these born hydrogen elements). Water molecules in the upper layers of the Earth's atmosphere form dissolving clouds like feathery clouds, while thunderclouds, in

addition to water, oxygen and hydrogen molecules, also contain other elements - nitrogen, carbon; the element of deuterium, helium, and other elements, which enter into energy-eating relations with mutants by matching, concentrating around themselves water molecules, raining down on the surface of the Earth's crust (the picture of a concentrated snowflake excites our imagination) cannot be dismissed either.

This is how the Earth is replenished with new elements - dominant factors in the soil, in water basins and in the air, as well as in our bodies, where molecular structures are concentrated around these dominant factors - centrioles: amino acids, salts, alkalis, oxides, arranged in protein concentrates according to the correspondence principle. And centriole-concentrated molecular structures form the nuclei of forms of being formed into a biological form. In the air environment the initial stages of bird phylogenesis will be formed, in the aquatic environment - of fish and algae, on land - of mammals and other biological forms of being, including the plant world, while in the animal organism viruses will be formed, etc.

This is how viruses, which are nascent in relation to the ecological niche that humans are, pass on to the next stage of evolutionary development, manifesting already in the form of single-celled bacteria.

Thus, we have briefly answered the questions: why light clouds and heavy thunderclouds appear and why biological forms of being appeared on the Earth. We answer in passing the question of why the Earth grows and adds weight. Because the migration of gravitons of the Sun's gravitational field into the zone of the Earth's gravitational field does not stop, and new elements constantly appear in the frontal zone of the Earth's gravitational field. So, as long as hydrogen elements enter into energy-eating relations with oxygen, nitrogen, and carbon elements in the Earth's air layer forming clouds and thunderstorm clouds, biological forms of being will appear on the Earth. When, instead of free oxygen in the Earth's atmosphere with the mutant element hydrogen, other kinds of atoms will quantize and there will be no more water molecules, biological forms of being will disappear, giving way to non-biological forms of being.

When the Earth in the solar system entered the zone of biological activity, and rain clouds and thunder clouds began to appear in its atmos-

phere, the Earth began to form a biosphere, with the evolution of which its endemic biological forms of being evolved and are evolving as well.

In the Earth's Biosphere each biological species occupies its niche and its areal by correspondence, and each individual of this species migrates within this areal by the principle of correspondence according to requirements and needs. If centripetal to the Earth flows of gravitons of the Sun's gravitational field in the Earth's gravitational field mutate into hydrogen elements, which form concentrates with centrifugal from the Earth flows of oxygen, nitrogen, carbon elements, etc., then these concentrates, being already in composition of the biological species individual, become participants of metabolism of the species individual's organ system. The individual breathes, assimilates and dissimilates, preserving its space-time vector directions while rotating its anionic-cationic energy-eating relations parallel to the matrix by 360 degrees during shifts of the time phase.

As for the tsunami phenomenon, the co-causes of this phenomenon lie outside our Earth, as one of the causes is in the Earth's zone. Tides in the ocean are associated with the phases of the moon, while a tsunami is also an ebb and flow, with a difference...

If you put a "bell" in a tub of water and pump air out of it, the pressure in the bell will drop and the "bell" will fill with water, which lowers the water level in the tub (low tide). But if you then instantly let air into the "bell", the water will be released by the force of the pressure and a wave will roll in the tub (tide).

Could it be that a peaceful - lingering tide and a tsunami are caused by a change in atmospheric pressure? After all, as the atmospheric pressure rises or falls, our blood pressure rises or falls, and the rampant elements lift entire houses into the air.

So, fluctuations in atmospheric pressure also affect variations in the volume of the Earth, which in one case compresses, in another expands - the Earth pulsates and breathes.

When the Earth is compressed due to increase of atmospheric pressure, compression increases its internal pressure and "liquid" lava bursts outward in the direction of the least resistance, which causes an earthquake.

Decrease of atmospheric pressure expands the Earth, which changes the relief of the Earth's mantle - formation of cracks, tectonic shifts, etc.

And the ambiguity of water expansion and contraction in the ocean and the Earth as a whole exposes the ocean shore - ebb tide, and water goes beyond the ocean shore - tide. Everything depends on the speed and amplitude of the atmospheric pressure drop, which can generate both a peaceful ocean tide and a tsunami.

A tsunami can also be accompanied by tectonic shifts and earthquakes, which are not the cause of the tsunami, because both earthquakes and tsunamis are the result of similar causes. But for what reasons are the atmospheric pressure variations on the Earth caused?

The Sun, through protuberances, is released from the "quanta" of its "charge" that "form" the Sun's gravitational field.

But as we noted earlier, the release has a dual character - according to the principle of relay transfer of information and according to the domino principle. In the first case, the field gravitons receive photons from the Sun's elements through protuberances and transfer their photons by baton to the subsequent row of gravitons, while in the second case the Sun's elements released by protuberances "push aside" the corresponding row of gravitons, taking their place according to the domino principle. The baton principle is manifested by the light wave, and the domino principle by the shock wave, so before the shock wave reaches the Earth's gravity field, the glow of the Earth's field is noted, because the Earth's gravity field stays in the Sun's gravity field, which admits the Earth's dependence on the Sun.

Thus, the functioning extremity of the Earth's gravitational field is constantly bombarded from the Sun by a flow of "gravitons" migrating to the zone of the Earth's gravitational field being at different stages of ontogenesis, which generates the frontal potential of the Earth's gravitational field.

With the formation of the frontal potential of the Earth's gravitational field by mutant elements, activity-energy is performed, and the frontal potential of the Earth's field is realized into a force that not only spins the Earth around its axis, but also exerts pressure on the Earth's surface, returning the lost charge with "reserve" to it, and the Earth "grows". But when there is a recession and an active burst of protuberances on the Sun, the pressure force on the Earth is weakening and increasing, and the Earth is pulsating.

As atmospheric pressure falls, the Earth expands, causing tectonic shifts; as atmospheric pressure rises, the Earth compresses, causing eruptions, while the unequivocal compression and expansion of the Earth as a whole and water in the ocean allow the tides to rise and fall. Sharp changes in pressure produce tsunamis, and the smooth, prolonged transition associated with the phases of the Moon produces a peaceful ebb and flow. When the Earth is between the Sun and the Moon, the frontal potential of the Moon, being the sum of the two potentials of Earthly and solar origin, will exert more pressure on the Earth than when the Moon is in a different phase. When the Earth finds itself between the Moon and the Sun in a burst of protuberances on the Sun, the Earth experiences pressure from opposite sides and compresses, and the ambiguous compression of the ground and water in the ocean exposes the ocean shore - the tide, and expands where the pressure is lowered - in the indirect between the Sun and the Moon. But as the surge of protuberances falls, this pressure decreases, and the water returns to its former state with a tsunami wave, the direction of which gives the pressure of the Moon coming out of the shadow of the Earth after its eclipse. Sharp compression of the Earth also in the direction of least resistance promotes ejection of the contents of the Earth by an eruption, generating an earthquake, and expansion and compression of the Earth generates tectonic shifts and cracks in the Earth's mantle.

If the pressure drop puts the ocean in a different position - not between the two acting forces with rarefaction between them, of course, there will be no tsunami. Let's compare it to the human body and its states, maybe we'll see ripples, tides, ebbs, and tsunamis in the states.



## **Section 5. peculiarities of the human thinking apparatus**

### **5.1 The Matrix**

Any attempt of a natural scientist to model the non-material extreme of human integrity, in our work denoted by the concept of "spirit", will lead to disappointment, because "Nothing" is not objective.

Spirit is the intangible extreme of man's wholeness, shifting the time phase of his being to itself.

"Nothingness," which identifies the immaterial extreme of the individual of the biological or non-biological species, is the "spirit" of that individual alone.

Unlike "spirit," the naturalist has no difficulty molding figurative forms of materiality, because materiality is objective, but not real.

What we could see in the material extreme of human integrity are its organs, its tissue cells with masses of inclusions, its centrioles, nucleus, chromosomes, mitochondria, RNA, DNA, cytoplasm, membrane, their molecular structures and elements of these molecular structures with elementary particles exchanging photons and emerging bottomless points yet unknown to us. And the material extremity of man turned out to be the bearer of all this information, extinguished by the time of his being, having taken on the meaning of "substance" - the essence of what individualizes man.

But if the material extremity of the integrity of each form of being in the integrity of man, be it a bottomless point, a photon, an atom, a tissue cell, like man himself, is individual, which crushes materiality into ambiguities, then the other, immaterial extremity of their integrity, which animates the material extremity, is unambiguous.

So each form of being is individually coded information, and each form of being has its own divine "spirit" belonging to the common unified divine beginning, the "Nothing. "Nothing" is indivisible into a multitude of nothingness, and the unified "spirit" of man together with deformed nature limiting and shifting to itself the "substance" deforming it, takes the meaning of "matrix" - the soul of the subject-object animating the substance.

For the bearer of information of the causes of its being, the continuity of permanence extinguished by time is realized by the material basis of being (substance), excluded without animating "spirit" action. And

the spatial continuity of constancy deformed by its curvature, which we call nature in the presence of "spirit" or the guardian of the individual's soul, which in its closedness - substance-nature - takes the meaning of "matrix", i.e. the comparator of information from its carrier, which is the substance or material extremity of the integrity of man, animates the substance.

Since forms of being quantize their cationic and anionic polarities with each other according to the principle of donor-recipient correspondence, information about forms of being fluctuates not only between extremes of human integrity, but also between quantized forms of being, which can erase individual's genetic code in case of no compensation of lost information. But the lost information will not be reimbursed by "spirit," "spirit" only animates materiality, shifting the time phase of the individual's being to itself. The lost information will be compensated only by third-party forms of being in energy-food relations. This means that information from some forms of being passes to other forms of being that restore the substance of recipients, and the flow of information from form of being to form of being does not fade away.

The flow of information about forms of being of material extremity of human integrity turns out to be multidirectional - centripetally directed by the quantum of time phase to "Nothing" in response to centrifugal action of "spirit", and from some forms of being to other forms directed at an angle parallel to the matrix. And there is an inexhaustible multitude of quantized forms of being around one form.

Thus, any form of materiality turns out to be a rotator of information about the reasons of its being in 360 degrees with vector direction parallel to the matrix and "Nothing" ("spirit"), while centrifugal-centripetal vector directions coincide with space-time oscillations between extremes of human integrity, spirit and materiality. And these fluctuations of information in the integrity of man are realized both by feelings and thought images and words in this chaos of fluctuations, both centrifugal and centripetal space-time fluctuations, and rotational-angular, parallel to the matrix, materializing in our consciousness.

So with alternation in generations of bearers of information the reasons of their existence the information about them is preserved in the coils of the spiral described at shifts of the phase of time.

In the book "Theory of time or the principle of formation of forms of matter" and in the book "The prime mover and time of being" the formula of phase shift of time with rotating information along the spiral described by a uniformly "elongating" radius with transitions of the volume of information into sphere and sphere into volume is given.

The radio amateur and the computer technician know the motherboards which are endowed with such carriers of information of reasons of their being as transistors, resistors, diodes, capacitors, coils and other carriers of information (including each element of their molecular structures) which filter, regulate and strengthen the current information, individualizing the substance which deforms the soul of the individual - the matrix, which compares information from the carriers of this information by its function

Because energy is realized in its two forms - potential and kinetic, and the potential form of energy is the program of the kinetic form of energy, and the kinetic form is the informer of potential on changes, the carrier of the program of the kinetic form of energy, takes the meaning of "soul" realized by energy potential, while the kinetic form takes the meaning of substance of forms of being. And we denote the keeper of the "soul" of the energy being realized, which animates the substance of human integrity, by the concept of "matrix".

## **5.2 Information flux vectors**

When we speak about information flow vectors, we mean direction of something towards something, from something in something.

But in reality, all sorts of shifts are excluded, since there is no information in reality, much less orienting extremes. Why? Because reality is an unconstrained static constancy that has no sides, no top and bottom, no left and right, no depth and surface, and any point released by the possibilities of reality in the continuity of constancy concentrates its equality with reality, becoming its opposite. And between these point opposites, on a common basis, swing the spatial-temporal relations realized by our visions and thinking, because in wholeness the reference points - the extremes and vectors of shifts of information - are manifested. And we can already imagine figuratively how around each arisen point a halo is erected of information flows, to which the degree of atti-

tude of the curvature of the point falls with the time phase shift. And the whole spatial-temporal areal around the point by the phases which became it takes on the value of the field of curvature drop of this point, or the field of voltage drop, whose inductor turned out to be this point which became a conditional reference point for the information comparator.

Thus, if in reality there is no information or vector directions, they are not excluded in the space-time continuity, between extremes of the subject's integrity.

But the extremity of the past continuity of static permanence, the equality of reality as its opposite, does not exclude the infinite multitude of point forms of being in the continuity of permanence concentrating their equality of reality, between which the contact-distance spatio-temporal relations sway.

When the spatio-temporal and energy-distance relations swing in 360 degrees of rotation in the integrity of the subject, the subject sees the forms of being, or thinks. When the relationship swings between the forms of being, the forms of being experience each other in space and time, exchanging light and sound vibrations, gestures, quanta of their genetic information, which are realized by images, words, and other physical bodies in our consciousness.

If I see, feel, hear and touch, the vector of information flow from its source is directed to me - it is centripetal information flow for me. If someone sees, hears, feels and touches me, then vector of information flow is directed from me, it is centrifugal information flow for me. By the word vector we understand the directionality of something toward something, from something, in something.

But there is an infinite number of carriers of information, starting with the inexhaustible in the composition of photons and completing the universe, including our physicality. And everything, changing, combines and combines, and there is no "empty" form of being deprived of materiality in objectivity.

And in this centripetal chaos of continuous information, where everything is temporary and changeable, including our physicality, we see, hear, touch, feel, and compare some forms of being, while other forms of being are extinguished by a homogeneous spatial background, up to vacuum and total darkness.

And we, the objective forms of being realized in our consciousness, on the background of homogeneity, have called the dominant factors, or the predominant factors in the convergence.

But what for us some fluctuations take the meaning of dominant factors, for other forms of being they are extinguished by the spatial background of movement, and vice versa. Outside fluctuations, which for us are extinguished by the spatial background, for other forms of being, which are hidden from us or are realized in the form of TV and radio receivers, take on the meaning of dominant factors. And even those fluctuations which for us in one environment are dominant factors, in another environment they are extinguished by the same spatial background.

When we look at the Sun and its rays hit our visual analyzers, the information about forms of being, stars and planets in space disappears, and we see nothing but the Sun, hence the Sun was the dominant (predominant) source of information in our consciousness, which took the value of the dominant factor. Similarly, the dominant factor can be: sound, pain, taste, smell... etc. All this we know from our own observations, which do not require outside literature.

In this reasoning we have touched upon information external to our corporeality and their sources, which are realized in our consciousness by objective forms of being, or objective forms of movement, whereas thinking (or dreaming) is autonomous... This means that our thinking is realized by those vibrations in CNS whose sources are our nerve cells with elements of their molecular structures... then, both external information and our own information, are read by the subject unambiguously from the cerebral cortex of the large hemispheres, as from the screen. Therefore to explain only the principle of information realization by our thinking let us stop on the levels of cell, atom and photon which according to the same principle are built and destroyed, built, born, generated and died, with different ontogenesis period and frequency of their repetitions in the current information dominant factor, which reduces information in information to an oscillatory circuit in the amplitude of another oscillatory circuit. Whereas the vibrational circuits, with their vector directions of 360 degrees, materialize the amplitude of a simple-temporal oscillation, taking the meaning of the image or form of being in space and in time.

The space-time oscillations are perpendicular to the matrix, and the energy-driven oscillations are parallel to the matrix and reality.

Hence, when we talk about forms of being, we are talking about information oscillating parallel to the matrix in the amplitudes of space-time oscillations perpendicular to the reality.

### **5.3. periphery - CNS, CNS - periphery**

When we considered stages of ontogenesis of carriers of information of reasons of their being - a cell, an atom, a photon, we noted their two polarities - anionic and cationic.

Knowing that cationic polarity can be only a source of information and anionic polarity is its receiver, we can imagine figuratively ascending-descending centrifugal and centripetal vectors of information flows both in the cells, atoms and photons themselves and in our organ system. From the senses, through the centripetal nerve cells, there is an upward flow of outside information to the brain, and from the CNS, through the centrifugal nerve cells, there is a downward flow (reflex flow) of information to the periphery of the body. Otherwise we would not be able to respond to external-internal irritation with our behavior in everyday life, nor would we be able to communicate.

But without our accumulated knowledge about the world and ourselves in this world, including our language of communication, our behavior would be inadequate, and we would not be able to communicate. Without our knowledge of the language of communication, we cannot reason; our thinking will be unconscious - reflexive to figurative and sensual information, but not linguistic and semantic.

When a dog is dreaming, you can see how it reacts: it wags its tail, it whines, etc. It is the dog that sees the images and reacts to them through the knowledge associated with those images that produced feelings of fear, pain, or pleasure.

Man sees dreams in the same way, but unlike a dog, can reason about what he sees and hears, because he has opened up his capacity for fluctuating verbal-meaningful information, deepened the grooves between the gyri of the large hemispheres of the brain, and widened the range of comparability of current and stored information in memory.

Since we are interested in the work of the brain, where our knowledge of the language of communication related to images and their behavior is preserved, we will not look into the mechanism of regulation of the human organ system, the responsibility that is entrusted to the CNS. What is sufficient for us is the very principle of establishing relations between the carriers of the causes of their being in the CNS, and the realization of the information released in the order, which is realized in thinking.

The information about the forms of being is transformed from the periphery to the CNS by the principle of relay and dominoes through the centripetal nerve cells; the information is transformed from the CNS to the periphery through the centrifugal nerve cells in the form of metabolites (mediators) of these cells inhibiting or activating the membrane conductivity of the tissue cells by changing the environment.

Centripetal information from our sense organs to CNS turns out to be linear, the final instance of which falls by the curvature of time phase read by our sense apparatus. And we see, hear, touch, but not yet think. In response to light, sound or other information, the CNS responds with a coordinated response (according to Pavlov's reflex), and our corporeality assumes the corresponding posture, playing the role of an executor of the CNS dictate will.

So functions of centripetal and centrifugal nerve cells diverge and do not converge anywhere, otherwise linearity of flows of centrifugal and centripetal information will close and there will be no regulation of organ system, information will be exhausted and will not be saved by our knowledge.

Because of inconsistency in energy-food relations, nerve cells carrying information from different sense organs will also not converge, otherwise information will be displaced into one common hole. And this means that each carrier of information from the periphery to the CNS has its own monopolized area in the brain tissue, where the oscillations to the substrate of opposites are realized. (In physiology such areas are known).

In response to external-internal irritation the function of coordinator of our behavior is performed by mediating nerve cells, which establish connections both with similar mediating cells - carriers of information

of reasons of their existence, and with centripetal and centrifugal nerve cells, including cells of cerebral cortex.

How centrifugal and centripetal nerve cells are arranged is described in textbooks on human biology and physiology, so there is no need to describe them, we just need to imagine them as conductors of current information from periphery of an object in CNS to subcortical zone of human brain tissue - they are centripetal nerve cells, terminating in CNS with cationic polarity, and centrifugal nerve cells - on the contrary, originate in CNS with anionic polarity, terminating in the periphery with cationic polarity. While dendrites and axon of progenitor cells do not go out of CNS, these extremes divide centripetal nerve cells from centrifugal ones, protecting wire of information flows from short circuit, at the same time playing the role of current information storage, regulator of information flows, resistor, diode, and chip not allowing information flow to where it is received, keeping principle of linear relations.

Knowing that the whole system of nerve cells of human brain tissue is built according to principles of energy relations, and cells take their places in this structure according to correspondence, we will consider the conventional model of relations in CNS by already ready provisions and principles. Otherwise the topic will never end.

#### **5.4 Intermediaries of information flows**

One of the universal carriers of information about homeostasis is blood, through which distant energy-eating relations between all cells - carriers of information about the causes of their being - are carried out.

All cells, forming venous blood with their metabolites and feeding from arterial blood, quantitate with its form elements, alternating in generations. (There is no data in biology about the stage of a tissue cell in the form of a blood form element with their function: generating a new generation of tissue cells). But we are not interested in the question of hematopoiesis at this point, one thing is clear that all human cells participate in hematopoiesis by discharging their metabolites into the venous blood.

Thus, all centrifugal and centripetal nerve cells have their monopolized areas and do not happen to each other, because they are bred by intermediary cells, known in biology as "glia", which inhibit or inhibit



the metabolism of these cells, either by activating them or by putting them out of action with their metabolites.

These metabolites in synapses are called mediators, so known in human biology and physiology.

And the variability of mediator cell metabolism depends on the dominant factor: which information received from blood or cells will have the greatest influence on it and which will have the least. And then both the principle of correspondence and the principle of the greatest and least resistance in metabolism are triggered. And this factor, which changes the metabolism and its direction, is also a dominant factor.

When a new person appears in society, everyone pays attention to him, in this society the dominant factor turned out to be a guest, until his presence becomes habitual to another dominant factor.

Thus, through the dominant factor there is a regulation between ascending and descending flows of information, now extinguishing this flow (sleep), now activating, (pro-awakening). And in every monopolized section there is a regulator of its own - a mediator, which according to its abilities meets the needs of energy and food relations in that section. Since other areas have other needs.

As we need the principle of system functioning itself, there is no need to describe in detail these star- and pyramidal intermediary cells of different configuration with their dendrites and axon.

Literature data on physiology and cytology describe these cells in sufficient detail, but without the function outlined above in the paper.

These nerve cell-mediated cells alternate in generations like normal tissue cells, passing through four main stages in their ontogenesis: anion, stabilization, cation, and neutron. The anion stage of the glia intermediary cell, passes in the mother cell, accumulating the information coming from outside, as if recording the order of oscillations by the forming object - the double of the original. Stabilization stage the cell passes outside the mother cell after division of the mother cell into the doublet and the original. The cation stage the cell passes with its division into itself and its double, and the neutron stage, where there are no more doublets and nucleus, the cell is carried away by a stream of venous blood as a form element of blood, which returns to the brain tissue through the arterial blood and fertilizes with its building material the intermediate cell, passing into the stabilization stage. (There is no in-

formation about nerve mediator cells and their neutron stages in the form of blood form elements in the literature). The main thing is that these intermediary cells are both regulators of information flows in CNS, and regulated links in the chain of energy-food relations, and carriers of human knowledge.

### **5.5. relationship pyramid.**

Like all tissue cells, the nerve cell-mediator in its ontogenesis passes through four stages: anion, stabilization, cation, neutron. And at all these stages by selectivity the intermediary cell with its dendrites, axon, body, enters into energy-eating relationships with different carriers of information, until one of its stages corresponds to the status of axial intermediary, satisfying the needs and demands of cations and anions monopolizing one of the many areas of the brain. And where all needs and demands will converge in a common point, there will be the axis of relations of all cells in the monopolized section of the brain, while the cell which has become the axis of relations in a separate section takes (by status) the status of a monarch of local importance.

One can recall the principle (dominoes) of shifting the carriers of information in the direction of the least resistance when changing their stages, due to their needs and demands the cell migrates according to the principle of correspondence, occupying this axis of relations - this is one of the ways of coronization of a nerve cell (self-promoting).

The axis of relations can fall on any of the intermediary cells regardless of their ontogenesis stage, if polarities of this cell meet requirements and needs of nerve cells in the site - this is the second way of coronation of a nerve cell (appointee).

But besides the axis of relations in the site there inevitably arise the axes of inter-partite relations according to the same principles, these are the axes of the second order, meeting the needs and requirements of both the cells of its order and the axes of the first and the third order.

Similarly, the axes of relations of the third and fourth orders, up to the axis of relations of all lower order axes in both hemispheres of the brain, become the same, and the cell occupying this highest in the pyramid throne axis of relations linking two hemispheres takes the role of a monarch.

Thus a pyramid of the energy-food hierarchy is erected from intermediary nerve cells in the CNS with full observance of the "etiquette" of relations of nerve cells - the pyramid bases to each other, to the monarch and to the integrity of the CNS, almost like people in the society (the principle of the pyramid construction is the same).

### **5.6 The Accumulation Phase**

Everything is built and destroyed according to the same principle, and everything in its ontogenesis passes through four stages: anion, stabilization, cation and neutron. The anion stage begins from the point of listening to the carriers of the causes of its being.

Egg and sperm at the moment of hearing on the natural basis of their metabolites create an object, which informs the born basis of opposites, and the informed by the object basis is realized in the subject. Since spermatozoon has no alternative source of building material - nucleus, and ovum has such source of building material - nucleus, further building of object will be realized in the field of building material source - in ovum, as electron in atom and planet in solar system.

Thus, in the ovum the primary organization of the object - the human central nervous system (CNS) - is formed from the building material supplied by the sperm-tosome into the ovum and the nucleus of the ovum, and later from the placenta, which corrects the further construction of the object from the material centripetal (to the subject) from the placenta and centrifugal (from the subject) substrate shifting the phase of the embryo existence time to itself. As the embryo enters the stabilization stage, its cationic pole determines the force that pushes the embryo out of the maternal system in the direction of least resistance, and the born child, breathing in the first stream of air, begins to learn the new world.

You can read about the stages of embryo ontogenesis in the section of biology called embryology, so it makes no sense to go into detail about the process of building an embryo, what matters to us is the principle itself.

The main thing is that we saw the main phases in the ontogenesis of the embryo - the phase of the accumulation of its genetic information from the moment of hearing the egg with the sperm cell, and the phase

of the accumulation of external information with the inhalation of the first stream of air.

Similarly similar phases in their ontogenesis are passed by nerve cells and elements of their molecular structures, photons and star-planetary systems.

When a mediating nerve cell responds by its state to needs and requirements of anions and cations in the brain part, its daughter cell under construction receives information in the form of building material, at first the gene information from its parents and then from all information carriers in the monopolized by them part of the brain from the moment of its conception.

Thus, we can see these two basic accumulative phases in the ontogenesis of neural mediator cells as well - the accumulative phase of gene information and the accumulative phase of external information.

Thus, a new generation of nerve cells is subsequently born with the information of their ancestors and with the added current information of everyday life coming from the senses to the monopolized site.

Thus, when the dominant factor appears in the monopolized section of the brain, all the daughter cells in their formation phase receive, along with the gene information, this information, which turned out to be the dominant factor. And this phase of ontogenesis of all cells forming with new information, along with the gene information, is the accumulation phase of information in the monopolized by these cells section. But in the accumulative phase of the site, not all of its cells were in the same stage of their ontogenesis. So, they will not implement this information at the same time, and each becoming intermediary in place of the past will repeat this information, but at its own level of curvature. And we will call this preserved information in human brain tissue the knowledge of this information.

### **5.7 The complex recording of information**

When the factor dominant centripetal nerve cells inform the cerebral cortex of the human large hemisphere of extrinsic information, the person sees, hears, touches, feels changes, but does not think yet. In order to think in words, images and gestures, this all third-party information communicated to the subject must be returned to the intermedi-

ary cells when they are formed, when they are in the anion stage - in the accumulation phase, otherwise knowledge will not be retained by the human memory.

But outside information is multifrequency with different amplitude range, and centripetal nerve cells turn out to be conductors of information with frequency and amplitude of their correspondence only - the character of donor and recipient appears. Accordingly, each centripetal nerve cell will have its individual beginning in the object and individual end in CNS. The donor-recipient principle will also work in the CNS, which allows some cells to concentrate some nerve cells around themselves and excentrate others. And the information that in the accumulation phase will be recorded in the intermediary cells in one area will not be recorded in the other.

In the accumulation phase the intermediary cell receives that information, which comes through the anion polarity of its mother cell, which puts its imprint in the forming double in relation to the original (conductivity of cell membranes is strictly individual, moreover at different ontogenesis stages of the cell).

So, in the process of alternation in generations, nerve cells will maintain continuity in the area monopolized by them. An example of succession is muscle cells, heart cells, liver cells, cells of blood vessels, kidneys, genital organs, nerve cells in the brain section, cells of the cerebral cortex, etc.

Consequently, the information, which is merged by the subject and the substratum and returned to the labyrinths of the brain tissue, is redistributed to areas - to anion polarities of intermediary cells, where their duplicates are formed, being in the accumulative phase.

And if in some areas information is redistributed with definite frequency of repetitions, which is realized by light streams focusing into images, in other areas - with frequency of sound waves, which are realized by words denoting these images, then all information simultaneously recorded in all brain areas is realized by complexes in one amplitude of oscillatory circuit of the subject.

Thus, from different sources, the centripetal influx of current information into the cortex of large hemispheres is realized in images, sounds, events, but not in thinking, so that animals lacking the human brain structure unconsciously respond to current information - purely

reflexively. But animals with a brain structure capable of combining oscillatory circuits in capacitors and marking this complex with an order of sounds in a word or image, rewriting this complex in appropriate capacities, only then, when this complex is released by human knowledge, information will be conscious, and the person begins to think and even reason.

If an image is accompanied by a sound combination denoting this image, then this sound combination takes the meaning of a word, and if to this image is added sensuality and this combination is repeated, then this word encodes a complex of information: image, sound, feelings, etc. And when you pronounce the word, the whole complex of information encoded by this word is released, causing a reflex response to this complex of information. Similarly, pronouncing the word "lemon" causes a reflex response, which causes salivation (we will not enumerate all reactions when pronouncing words, nor will we describe Freud's favorite reactions to excitatory factors of the dominant, including hormones).

Thus, if a word - sound combination denotes something, and a sentence - word combination comprehends this something in something, why, etc., then in this semantic vibrational circuit, as represented by the sentence, the word has taken on the meaning of the amplitude of reasoning, revealing complexes of information encoded by words.

But in the process of assimilation and dissimilation, any cell releases information arbitrarily, including the intermediary cells connected with the cells of the hemispheric cortex. And there will be no synchronicity in releasing recorded information by complexes if there is chaos.

There will be no order, there will be no thinking. And we find such a regulator of relations in the substance of materiality - in the brain tissue, which is a monarch cell, and we find a universal accumulator, mixer and sifter of information - it is a biocapacitor.

## **Section 6. Regulating the flow of information**

### **6.1 Structure**

The necessity of the human thinking apparatus is its structure - from Latin Structure - structure, arrangement, order, with the violation of which a person ceases to reason and think.

That the structure of the material extremity of human integrity is preserved, we know not only from our experience.

When we see our reflection in the mirror and compare our appearance with that of the opposite sex, we see the difference in the structure that distinguishes a man from a woman, despite the fact that they are representatives of the same biological species. And this sex difference, preserved in individuals of the species from their conception, plays a decisive role in the continuation of the human species.

In our work we explain this difference by the different polarity of the compared individuals. A man's cationic polarity is extended, while a woman's polarity is anionic, which reduces a woman to a recipient state and a man to a donor state, compensating a woman's needs in marital energy-food relations.

We will not go into details of the process of transition of building material from a man to a woman to build her likeness, this process is universal, we will only briefly touch those processes that preserve the structure of an element, molecule, tissue cell, including the structure of the thinking apparatus of both woman and man.

The substance, which identifies the material extremity of human integrity, at each stage of its ontogenesis, has renewable tissue cells, which, alternating in generations, repeat their producers, both in needs and requirements, that, along with the preserved information about these forms of materiality, the structure of the material extremity of human integrity is also preserved. And that causal composition of the material extreme of human integrity, which, while preserving the information of its producers, also preserves the structure of materiality (the structure of elements, molecules, tissue cells, CNS, etc.), takes on the meaning of "gene information" of that person.

But the question arises: what is the connection between the structure of the human thinking apparatus and his ability to see, hear, think?

We pointed out the structure of the human brain in the previous sections of the paper and said that man then departed from his animal ancestor when the structure of his brain changed along with other changes.

In connection with the change of gene information at the level of molecular structures and human tissue cells, including nerve cells, the needs and requirements for relations changed, which changed the brain structure as well: the furrows between its gyrations became deeper and new gyrations appeared; losses of current information decreased and capacitive characteristics of brain areas increased, its efficiency also increased - the frequency range of oscillating information in the furrow between brain gyrations widened, and the animal got new abilities, he began to develop a language of communication and began to reason, becoming human, i.e., a changed kind of animal.

And we compared the furrow between the brain gyrus covered by the cortex and divorced by neutral tissue with capacitor structures, calling these brain structures - "biocapacitors", and the triad - centripetal and centrifugal nerve cells with intermediaries divorcing them - "bio-transistors", etc.

The brain is a part of the corporeality of a biological form of being (in our case, a human being), or it is a substance that preserves information about the forms of being knowledge of a human being.

It is known that the human brain has two furrowed hemispheres covered by a homogeneous shell, the cortex, which between the hemispheres and the gyrus of the brain forms parallel plates, separated from each other by neutral - nerve cell-less tissue. And between the parallel plates of neutral - divorcing-connecting these plates tissue and nerve cells in the gyrus are swinging energy-eating relations. And information flowing in one gyrus informs the other gyrus, and oscillations of information between the plates are not dampened, remaining in the brain tissue. Whereas the vibrations between the plates are merged by the subject, and man sees images and hears sounds, which without the structure of the brain would dissolve in the chaos of the vibrations.

Of course, oscillating information in hemispheres of the human brain is lost when leaving the cortex, because part of the cortex covering the gyrus is not occupied in the furrow, and, besides, some information seeps from CNS to periphery of human organ system, both through centripetal nerve cells and with the venous channel, is spent for its motility.



But since from the sense organs through the nerve cells and with the arterial blood flow to the brain tissue there also comes outside information, the lost information, including the gene information, is restored. In energy-food relations a human being takes from donors what corresponds to his genetic information and gets rid of what does not correspond to his genetic information, remaining a human being.

This is how the human being, orienting in the environment of his being with restoring motility, "migrates" in the direction of the least resistance according to the principle of correspondence. With his needs and requirements in energy-food relations, man is either "attracted" to something, or "repelled" from something, taking in one case the role of a donor, in another - a recipient, and in the third - a force divorcing and bringing together side forms of being;

Why do the carriers of the causes of their being diverge and converge into structural formations similar to molecular structures of matter, constellations in space, human organs, ... why do they divide, like pregnant women, atoms and star-planetary systems into themselves and their likeness, ... divorce and reduce, concentrate and eccentrate their likenesses, etc.?

Everything can be reduced to an energy-eating relationship, but it's harder to describe it figuratively.

We know that there is an energy-eating relationship swinging between the Sun-proton and the planets-electrons. And in this energy-eating relationship, the Sun-proton acts as a donor of genetic information and the planet-electrons act as recipients. But since the information in the Sun-proton gravitational field is not fully consumed by the planets-nuclei of daughter systems, including the Earth-electron, the rest of the information falling by this field is realized into forces that preserve the Solar System and correct its displacement in the cosmos. Similarly, the information not consumed by the planets (residual information) is realized in the forces that keep and hold the planet-electrons in the system, rotating them around their axis and around the Sun-proton.

When elements of the Sun's protuberances decay into doubles, anion and cation, the anion is redistributed centripetally to the Sun towards the source of metabolites, pressing the Sun (planet), which preserves the structure of the Sun, and the cation is redistributed centrifugally from

the Sun from the edges of protuberances, which makes the Sun a source of gravitons and photons.

Thus, decay of elements of protuberances on the Sun (including the planet) is realized in forces returning a part of information in the form of anions to the Sun, exerting on it a pressurizing force that preserves its structure, and a part of information in the form of cations is released through protuberances of the Sun into the gravitational field of the Sun (planet). Since new generations of atoms are formed in the built systems-anions when they collide with the flow of neutrons and photons, the Sun and planets, including the Earth, keep their appearance - the structure shifting in the direction of least resistance, with the difference that the Earth, like the rest in the planets system, is built, while the Sun is destroyed.

Just as the Sun-proton has its gravitational field of influence in the Solar System, the Earth-electron has its field of influence in the womb of the parent Solar System. And where the gravitational field of the Earth-electron is opposed to the Sun-proton, there forms a migration zone - a zone of penetration of gravitons of the Sun's gravitational field into the gravitational field of the Earth, which bifurcates and brings together the Earth-electron and the Sun-proton.

In view of the fact that gravitons-atoms, alternating in generations, are carriers of information about reasons of their existence in the gravitational fields of the Earth and the Sun, in the zone of their migration, where the density of counter information flows from the Sun-proton and Earth-electron is increased, the period of gene and external information accumulation in the forming graviton doubles is prolonged. With the increasing amount of information, including photons and neutrons, the embryonic stage of electrons in atoms of the migration zone lengthens, and electrons "grow" and with the flow of neutrons get satellites, like the Moon at the Earth. And the kind of atom - graviton with one proton and one electron without satellites is replaced by a mutant - hydrogen element with one proton and one electron with one satellite. But since in the migration zone the counter-flow of information - photons, neutrons, cations, anions - is not interrupted, each subsequent generation with expanding fields of their nuclei has already two or more electrons with their satellites, up to the composition of heavy elements, which is

proved by the chemical composition of meteorites formed in the migration zone in the form of anions, cations, neutrons and photons.

If a comet is formed between star-planetary systems at different stages of its ontogenesis, a meteorite is formed in the migration zone between the Sun and the Earth, (between a proton and an electron). And if an asteroid at the head of a comet in the gravitational field of the system becomes a planet, then meteorites "burn up" in the Earth-electron atmosphere, or form a ring around the planet similar to the Saturn ring.

Since atoms alternate in generations, and each generation is born by dividing the atom into doubles - anion and cation, the "strength" of element decay increases with increasing proton weight and the number of electrons with their satellites. And this means that in the migration zone, the force pushing the Earth away from the Sun increases.

But since the fission of elements diverges with each other in the migration zone in the direction of least resistance, at an angle between the Sun-Earth axis, the free zone in the Sun's gravitational field does not exclude the angular divergence of the doubles spinning the Earth around its axis.

But as the Earth unwinds, the Earth provides the Sun with a migration-free zone side of its gravitational field, which is filled with migrants, and the Earth's unwinding is not interrupted. But when the Earth unwinds, there is a remaining migration zone that pushes the Earth in the direction of least resistance at the angle between the Sun and the Earth.

But at further unwinding of the Earth the rest of the migration zone, summing up with centrifugal flow of information from the Earth, moves to the Earth's tail, like a comet's tail, pushing the Earth towards the source of information - the Sun.

The forces spinning and pushing the planet are spread out so that the Earth rotates not only around its axis, but also around the Sun - the source of power, at a distance from the Sun, where the forces pushing the Earth away from the Sun and pushing the Earth toward the Sun will be equal.

But in the future, receiving power from the donor of the Sun from the migration zone, the Earth grows, and the field of its influence expands, along with this the forces pushing the Earth from the Sun grow,

which will lead to the collapse of the solar system into two systems, and the Earth will become a star - the nucleus of the born element of the molecular structure of the Universe.

It follows from the above material that sexual dimorphism is not a prerogative of biological forms of being, because any atom, like any star-planetary system, shows its masculine or feminine origin in mating energy-eating relationships.

Consequently, in the energy-eating relations during the similarity hearing, but at different stages of its ontogenesis, the element with the cationic difference turns out to be an anion donor, while the one with the anionic difference is a cation recipient passing to the neutron stage. Whereas, having received the building material from the donor, the recipient passes to the stabilization stage: for atoms an electron is formed, for star-planetary systems a planet is formed. If a system with many electrons or planets, then with the formation of the next electron or planet we can say about the phases of the stabilization stage of the system.

But the question arises why the sexual partners of one biological species give birth to female-oriented and male-oriented individuals. This is because with the rotation of the oppositions of reality (with the rotation of the arguments of the pairs' functions) the integrity of the acting potential is extinguished, then it is restored, and in what phase of its integrity the point of ovum and sperm will be, the polarity of that phase will predetermine the future sex of the child. (With the shift of reality in the continuity of its constancy in the acting potential the equilibrium is broken and the integrity of the potential is in the phase with the incoming continuity quantum and in the phase of its realization).

Further we can figuratively represent not only structural formations in human integrity in the form of biocapacitors, biotransistors, bioresistors, biopumps necessary for human life activity, representing structural formations in tissue cells including the nucleus with inclusions including DNA and RNA, etc., but also the mechanics of structural formations formation, including formation of duplicate biological and nonbiological forms of existence - atoms and star-planetary systems.

It is thought that biologists, physicists and chemists will take into account the above in modeling of biological and non-biological structures.

## 6.2 Filtering Information

In reality there is no objective information, no points, no space, no time, no extremity of the past, except reality itself denoted by the concept of "Nothingness," which shifts the phase of temporal continuity of eternity to itself - what we called motion.

By way of reasoning, revealing the possibilities of reality such as unlimitedness, continuity, wholeness and its contradictions-"is" and "is not"-we have reached not only the conceivable level of energy realized by man, but also the sensual apparatus of man.

Since with the rotation of the contradictions of reality "is" and "is not," man's wholeness pulsates, man can feel, see, hear, touch, feel, think... only when wholeness is restored, since only the material extreme of man's wholeness is the bearer of information of the causes of his being.

When there is no wholeness, man's sensuality falls out, when wholeness is restored, man comes alive, feels. And the alternation of contradictions "is" and "is not" in the continuity of permanence takes on a frequency-pulse character - "light matter" alternates with "dark matter".

Consequently, the potential of parity, human "spirit" and continuity with restoration of integrity is replaced by the potential of triad - human "spirit", human integrity and non-continuity (triad).

Sometimes a person does a job and looks back wondering when he/she got over the time interval between the events that fell out of his/her memory and not finding the answer, complains about his/her memory. And in reality the events took place in phases of failure of sensuality.

Observing the focuses of objective information in the form of light waves, we see their diversity in curvature, polarity, tonality-color, in frequency of repetitions, in structure of construction and even in their transformations in hearing, divergence and coincidence, calling these phenomena by the terms "movement", ontogenesis, phylogenesis, evolution, resonance, metamorphosis, mutation, interference, dispersion, diffraction, polarization, construction, destruction, synthesis, analysis, reducing these phenomena to objective forms of motion, such as linear, angular, vibrational, wave, corpuscular, corpuscular-wave, evolution.

But if the contradictions of reality rotate with a constant frequency and there can be no other, because reality is unchanging, then why such a

multitude of objective forms of being, with different frequency alternating light and dark side?

Since man has his own nominal frequency of "is" and "is not" and only the past is realized in his consciousness, man sees, hears, feels the information of "is" and "is not" in the order in which they were extinguished by time. And he sees how waves with their peculiar frequency converge and diverge, how they overlap each other, cross their "light" and "dark" extremes, adding quanta of their curvature at common points of hearing, adding and summing up, etc. In total, man sees, he hears, touches, feels, feels what his structure and frequency of renewal allow him to do. He sees the cosmos, and the stars in the cosmos, sees the moon in the Earth's gravitational field, and finally he sees the interlocutor, the individual of his species.

And the question arises, how is it that in the chaos of different frequency spatial-temporal oscillations between extremes of human integrity, a person feeling changes in potential, sees forms of being, sees physical bodies, things, hears them and thinks both with images and sound combinations denoting these images and events. How is the frequency of oscillations necessary for thinking filtered in this chaos of oscillations, which are realized in our consciousness into objective forms of being - into images and events, why and how?

Why do we see everything in the range of frequencies as light waves and hear in the range of frequencies as sound waves, and why with the deviation of the frequency ranges in our information-sensory window images and events disappear and the sounds become silent, while other species can see in total darkness for us and hear in silence for us, and man-made instruments feel what is unattainable for us and other biological species. And finally, why do we alternate wakefulness with sleep?

It is interesting that waves in the atmosphere and gravitational field of the Earth can be carriers of information not only of our form of being (double) but also of other temporal dimensions, which we do not see in objectivity, if only in dreams we can dream about them. So why do we see and hear some forms of being and not see and hear other forms of being, despite the fact that their fields are constantly crossing us. And we find the answer both in biology, which points to the structure of the sense organs connecting a human being with the external world, and in the physics, which reveals the structure and purpose of the capacitor,

analogous to which is the furrow between the gyrus of the human brain, at the same time not forgetting about the principles of correspondence, about the stages of alternating in generations of elements of molecular structures of time dimensions and their needs and requirements, about the degrees of relations, etc., including the single principle of formation of forms of matter into cause-and-effect stages of motion

From scientific literature on biology - anatomy, physiology - we know that the human brain, represents two hemispheres closed by the cortex and speckled with blood vessels and various nerve cells, which form gyrations separated by a furrow. (We are not interested in other parts of the brain that do not take part in thinking.)

As every part of the brain is monopolized by centrifugal and centripetal nerve cells and mediator cells - glia, the capacity of the cerebral cortex covering the gyrus in receiving information flow will increase with deepening of the furrow between the gyrus: the deeper the furrow, the more the volume of carriers of information of the causes of their being is covered by the cortex in this gyrus.

But cells of the cerebral cortex, as universal receivers of information, also assimilate metabolites of cells both by contact and distance ways, also alternate in generations and are also released from their metabolites distorting the time phase. But due to homogeneity of cells in monolithic cortical tissue, all information from nerve cells of subcortical layer of the brain is taken off in the range of the same frequencies - such is the need of these cells. Consequently, changes in these frequencies are played back by oscillations between extremes of human integrity from the whole brain covered by this tissue.

Thus, if information fluctuates in one part of the brain - flowing from the organs of vision according to the baton principle, in another part - from the organs of hearing according to the domino principle, and a person sees forms of being, hears them, feels them, feels them, it does not mean that he is thinking.

Man can see, hear, and feel extrinsic information, as can the individual of any biological species, but not think, since the human thinking apparatus is autonomous. It is the glia that releases information, but not the centripetal nerve cells that carry extrinsic information...

If the centripetal nerve cells supply the CNS with a dominant factor of order and the subject compares this order in a homogeneous envi-

ronment, then this dominant factor is not the object's genetic information, but third-party, imposed information. Whereas thinking needs its own information preserved by human knowledge, which, unlike the imposed one, is regulated. Nerve cells, intermediaries between centripetal and centrifugal nerve cells, are such cells, carriers of information with human knowledge in the CNS.

When nerve cells alternating in generations are renewed and elements at the anion stage prevail in the brain tissue, this is one polarity of the brain tissue, when elements at the cation stage prevail, this is another polarity, and the polarity fluctuations narrow and expand the frequency ranges, shifting ranges to high or low frequency, which leads to sleep or waking state and not only.

When a person sleeps and has a dream that diverges from his knowledge, but comes true in objectivity, he calls the dream a prophetic dream. But nothing can tell what has not and does not exist. When a person sleeps, he is crossed by phases of voltage drop fields of all levels - electromagnetic, gravitational, biofields, etc., whose inductors are outside the integrity of the person in the past, and the person sees the inductors of these vibrations in the dream.

Current information broadcasts about the past, which is detected in the future when the person is awake - in the tunnel of the time dimension external to the person, the events are ahead of the Earth events. If we treated the electron in the atom to the same degree as the Earth in the solar system, as we have already reported it, then we on the electron would live like on Earth... and time would "flow" for us like on Earth: one revolution of the electron around the proton is one Earth year. Consequently, events on the electron would be ahead of events on Earth. But there may be other time dimensions, not accessible to our consciousness, repeating events on the electron in a slowed down version, information about which comes to us in a dream lasting fractions of a second - a prophetic dream is instantaneous.

And from this chaos of intersecting waves of different frequencies and different time dimensions waves with frequencies close to light and sound waves are filtered, which materialize into imaginable images and events in a dream. Of course, in different stages of their ontogenesis the elements are ambiguous in their needs, which shifts the frequency readings from the average readings corresponding to light and sound waves.



So, the needs when being awake in one frequency do not exclude the reception of information coming to us in a dream with a different frequency - the needs of elements and cells in different stages of their ontogenesis are ambiguous.

By the stream of light particles on the baton principle - photons we see images and events, but it is in the range of light waves, as with the exit of information streams from this range the visible world for us will disappear. With the exit from the range of fluctuations of sound waves - the sounds will disappear. But the structure of biocapacitors is such that information with the frequency of light and sound waves will be filtered out of the chaos of oscillations in the CNS.

### **6.3 Inhibition and activation of information flows**

All nerve cells-mediators of the brain area, according to correspondence in energy-food relations, take their place in this area. But with transition from one stage to another, their relations with cells change, and they migrate according to the principle of correspondence, redistribute in the direction of least resistance to those cells with which energy-food relations are established according to the principle of relay race, removing from some cells their relations and establishing with other cells according to the principle of correspondence in energy-food relations. This interrupts the flow of unambiguous information in one direction and establishes it in the other (impetus to spontaneous thought).

The dominant factor plays a huge role in changing the established relationships between cells. The level of the donor metabolite, falling on the anionic polarity of the recipient cell, as a dominant factor changes the orientation of this cell towards its recipients, taking the role of a regulator in this relationship.

As the dominant factor falls on the anionic polarity of the cell, the cell responds by changing the spectrum of metabolites released from its cationic polarity, changing the orientation of the cells in the energy-eating relationships.

As the spectrum of metabolites changes, the axial cell remaining axial interrupts relations with some recipients, and establishes relations with other recipients, or decreases the flow of consumed metabolites in

one direction, in another - increases (the chemical composition of the environment changes). And the flow of unambiguous information flowing in one circuit falls or is interrupted, and adjusts or increases in the other circuit, in the first case taking the meaning of inhibition, and in the second - of disinhibition.

The junction of donor nerve cells with their dendrites with recipient cells in physiology is called synapses, and the donor cell metabolites released in synapses are called mediators.

When the donor nerve cell, with a change in polarity or spectrum of metabolites, removes synapses from the recipient and transfers them to the next recipient, the mediators in synapses between the donor and the next recipient take on a dominant factor. And the recipient responds to this dominant factor by decreasing or increasing the flow of its metabolites, or by changing one of its recipients to match, which excites some circuits of energy-eating relationships and dampens other circuits, or inhibits or de-inhibits the flow of information in the circuit.

And in this excited chain of energy-eating relations the donor nerve cell, which excited this information flow with its metabolites, is dominant.

Linear information flow from cell to cell, from area to area in human CNS can be activated and suppressed, but at the same time flows of external information into CNS from external world can not be interrupted, which is typical for human waking state, and can be suppressed, which corresponds to sleep state.

Since all human tissue cells pass through four main stages in their ontogenesis: anion, stabilization, cation and neutron - and there are no two and more equal elements and tissue cells themselves, synchrony in frequency of alternation in generations and synchrony of transition of tissue cells from one stage of ontogenesis to another stage is excluded. And this asynchrony in CNS leads to periodic coincidence of stages of nerve cells, which increases balance of anions and cations in CNS, and cells in stages of stabilization, which transfers a person from one state to another, from sleep state to waking state and vice versa, and not only. But these coincidences of stages can be scattered throughout the CNS, or they can be localized in one or another part of the CNS.

We will not consider all forms of stages coincidence in CNS and will consider only a case leading to parades of anions or cations polarizing CNS.

We know such a phenomenon in the solar system as a parade of planets polarizing the system to the poles - cationic with the Sun, and anionic with the decomposed order of planets one by one in opposition to the Sun. Similar parades are not excluded in principle not only in atoms, but also in CNS.

These parades in CNS can cause different human states, including split personality state - schizophrenia (state of a person combining information of sleep and wakefulness).

Of course, if the dominant factor is excluded in the external environment, then transition to the dream state will predetermine this exclusion as well. But we don't consider all variants of the state, because any part of the brain can be polarized, the main thing is that in these parades we saw the reason of a person's transition from one state to another, including from a dream state to a waking state and vice versa, under conditionally stable external environment.

#### **6.4 Nomenclatural Steps of the Pyramid**

We know that the human brain is characterized by its two hemispheres enclosed by the homogeneous cortex, and each hemisphere is endowed with areas monopolized by centripetal and centrifugal nerve cells, and also by intermediary cells - carriers of information of reasons of their being in this and only in this area of the brain between centrifugal and centripetal nerve cells.

And in each area of the hemisphere there are energy-eating relationships between the cells composing these areas, according to the correspondence. At the same time in each hemispheric area there is not excluded an axial cell regulating information flow in its subordinate area. Axial cells-mediators between the areas regulating information flows in the subordinate brain areas are not excluded either.

Similarly, inter-participant axial cells regulating relations in their subordinate CNS areas are not excluded.

Finally, not excluded in the CNS is an axial intermediate cell regulating information flows in both hemispheres of the brain, unlike other axial cells functioning only in their subordinate one brain hemisphere, except for the axial intermediate cell that unites the two hemispheres by itself.

The nomenclature axial cells function as relationship regulators only in their subordinate areas and regions of the brain. Whereas in the right and left hemispheres the steps of the CNS pyramid, whose basis is formed by nerve cells of all colors and levels of the brain tissue, including nomenclature-axial cells, are erected separately.

Some of them, depending on the site and area of their dislocation by correspondence, are the sources of information of the same metabolite levels - light information, sound information, olfactory information, tactile information, etc., received both from external world and inside the organism, including bloodstream. Whereas the axial precinct and inter-oblast cells mediate the spectrum of metabolites that meet the interests - needs and demands of the subordinate precincts or areas.

Each cell forming the basis of the CNS pyramid enters not only into a contact relationship, but also into a distant energy-feeding relationship. And the carrier of distant information is blood, carrying metabolites of tissue cells of different human organs - these are different elements, molecules of different chemical substances - hormones, enzymes, etc., as well as form elements - neutron stages of different cell levels, including nerve cells, which were dumped into the venous blood. And each nerve cell turns out to be a consumer from the arterial blood and a source into the venous blood of only its level of metabolite corresponding to its status in the pyramid. And, nevertheless, there are substances necessary for all cells in the bloodstream, which are universal and are consumed by all cells in CNS, except for individual blood forming elements - neutron stages of cells, without which there will be no construction of a new generation of cells in CNS.

And the CNS pyramid functions in two vectorial directions - from bottom to top - to the pyramid steps from its bases, and from top to bottom - through the pyramid steps to each carrier of information, whereas the engine of these flows is the substrate which is born reality. Thus the direction upwards to the pyramid steps has an accumulative character, and downwards, to the base of the pyramid - a distributive one. And if

the function of the accumulative side is assigned to the base of the pyramid, the function of the distributive side is assigned to the nomenclature in the pyramid. So the top-down in the pyramid does not exclude the dictate of the upper ranks, and the execution of the lower ranks of this dictate from the bottom up.

Thus, the dominant cell, at the level of its section in the brain tissue, concentrates correspondences with its cationic pole, eccentricating mismatches, and turns out to be a regulator of relations, inhibiting the flow of unambiguous information in one direction and exciting the flow of this unambiguity in the other direction. And if the dominant is higher than the recipient's step in the pyramid, then this higher step turned out to be a dictate for the lower step, and the executor of this dictate were the cells of the lower step - the recipient's step.

It would be good to remind that if there are no accumulations from bottom to top in the pyramid, there will be no distributors, and if there are no distributions from top to bottom, there will be no executors, and CNS will stop functioning.

It seems that the balance of information should be constantly preserved, but the information will be exhausted through the centrifugal nerve cells, if there is no information coming from outside the CNS through the centripetal nerve cells, both from the human environment and from organs of the human body, including bloodstream - an energy-eating resource, which gives an opportunity to generate a new generation, preserving the gene information of the pyramid bases. Isolation of the brain, "kills" the brain.

The basis of the pyramid called the state is man, and the nomenclature axes of the first step in the state are the heads of the family. The axes of the second and third steps are leaders of public organizations and heads of state institutions, town governors, measures, governors. And the axis of the last stage in the state is the president, king, tsar, emperor, "monarch".

That's how the functioning pyramid of nomenclature levels in CNS looks in brief, the top of which is the level of axial cell-mediator, which by its status in the pyramid takes the meaning of the monarch.

In physiology, except for sites and areas, the steps of the pyramid in CNS, moreover its tops are not marked, and therefore in this area of science the question about dislocation of axial cells-mediators in CNS

and their role in regulation of relations in the system was not put. In this connection, the description of the pyramid in the CNS and its apex is theoretical in nature.

Nowadays, an oscillatory circuit is taken from the cortex in encephalograms: alpha, beta, gamma, etc. - and each gyrus corresponds to a different level of oscillatory circuit, which is used in medicine to diagnose a patient. But there is no explanation as to why and how these oscillations are generated in the cortex, there are only guesses, which reduce these oscillations to the properties of living matter (biocurrents), especially "highly organized" one, which is the thinking brain, which, according to our data, has no such function - to think.

But for these fluctuations to be regulated by the monarch in the pyramid of energy-food relations between the bases of this pyramid - glia, in our work accepting the meaning of intermediary nerve cells alternating in generations, such explanation is still absent in the known literature sources.

### **6.5 The Throne Axis of Relationships - Monarch**

In the human brain, where the axis of relations of needs and demands of all nerve cells of the brain falls, we called the throne axis of relations, or the top of the pyramid in CNS. And we called the mediator nerve cell, on which this throne axis falls, the monarch cell, which according to its capabilities meets these demands and needs in CNS. Similarly, the throne axis of relations in the state falls on the person - monarch, no matter what we call this monarch - king, king, chief or president, etc., and in the human tissue cell the throne axis of relations falls on the centriole, which becomes the monarch in the cell.

But since we are interested in the throne axis of relations falling on the nerve cell, which regulates relations in CNS, we will talk about the nerve cell-monarch, but not about the king in the state and not about the centriole in the cell.

The monarch cell, like all mediating nerve cells, in its ontogenesis passes through all four stages: anion, stabilization, cation and neutron, and on one of the stages the throne axis of relations falls on it, but not on the neutron stage, which is carried away with the blood stream as its form element.

If the throne axis of relations falls on the neutron stage of the cell, it means that all kinds of regulation in CNS have been interrupted and chaos in relations has come, which leads to disintegration of CNS pyramidal system.

Usually the tron axis of relations in a healthy human body falls on the intermediary cell between the hemispheres of the brain, when the cell is in the stabilization stage with equal polarities - anionic and cationic.

And the released spectrum of metabolites of the cationic polarity concentrating around the correspondence is equivalent to the consumed spectrum of the anionic polarity. (Physicists would say that the positive charge of an atom is equivalent to its negative charge.)

And from the cationic monarch polarity the chains of energy-food relations in the CNS are laid out, involving the nomenclature cells of all the steps of the pyramid, from its apex to its base. Whereas the anion polarity turns out to be a receiver of information not only from the cortex of the big brain hemispheres at the junction between them, but also from the blood flowing through the blood vessels (nutrition and sexual partner).

But any cell in the human body participates not only in contact energy-feeding relationships, but also in distant ones. Including the monarch feeds from the matter brought by the arterial blood and discharges its waste into the venous blood. And if any dominant factor - a hormone, or some other chemical compound, or an element influencing the cell metabolism - turns out to be in the blood, both the density of the spectrum and the direction of the information flow will change accordingly.

And the monarch will either remove synapses from some axial cells and transfer them to other cells, or it will lower the density of metabolite flow in one direction and raise it in the other (membrane conductivity changes). This in one case will interrupt the flow of unambiguous information in the established chain and will direct the information flow to anions of other cells, to the axes of lower steps in the pyramid, which will be concentrated around the monarch, while in the other case the information flow will be activated in one direction - the disinhibition effect, and the metabolic activity - the inhibition effect - will be decreased in the other.

The mediators in the synapses either lower the conductance of the recipient's membrane or raise it (as if by changing the chemical composition around the membrane).

In the same way, the information that rotates in the cerebral cortex of the large hemispheres can factor dominant changes in the spectrum of monarch metabolites, which will concentrate some recipients around themselves, eccentricating others, altering the information flows. This will change directions of information flows both to centrifugal nerve cells, falling on human organs, and to intermediary cells in CNS, carriers of information of reasons of his being.

The monarch regulates relations in CNS and changes vector directions of information flows, in one direction inhibiting information flows, in the other - disinhibiting. As a result of fluctuations of information flows, in the cortex of the big hemispheres thought is released, and in human organs - inhibitory and disinhibitory metabolism of tissue cells - mediators are released.

And if information of everyday life comes to the cortex of big hemispheres through the centripetal nerve cells, this information will be released by the cortex into anion polarity of monarch, for which this information will turn out to be a dominant factor. Then the steps of the pyramid will be followed by the CNS reflex response to the external irritation of the person, falling on his corporality, and the corporality will be coordinated.

If the monarch's anionic polarity receives information from some organ, the monarch's cationic polarity via dendrites will adjust the dose of these metabolites flows, in one direction expanding the bloodstream, in another - narrowing it, then accelerating or slowing down the heart rate, and the blood flow will redistribute to the working cells that require compensation for their work.

Such is the role of the monarch in the CNS.

### **6.6. reflexion**

Nothing in reality moves, moves, arises or annihilates, much less is born, dies, thinks or changes.

But then what is changing, distorting, and shifting in objectivity?



An entire theory of reality, denoted by the concept of Nothing, was devoted to this question. And in the same theory such forms of motion as linear, angular, vibrational, wave, corpuscular, corpuscular-wave, and evolutionary were designated, generalized by the concepts of "statics," which excludes change, and "dynamics," which does not exclude change.

But where did these forms of motion come from if reality is "Nothing"?

Simply, "Nothing" is unlimited, holistic and permanent, and permanence is continuous, and "Nothing" turned out to be the golden mean of eternity, shifting the temporal continuity phase of eternity onto itself. Thus "Nothing", being preserved in the continuity of its constancy, turned out to be in the state of inertia, acquiring the significance of both the prime cause of motion and co-causality of our being, actions - shifts from past to future, generating continuity into its opposite, disturbing the balance in potentials with the charge of its possibilities.

But at the shift of "Nothing" in the continuity of its constancy the action generated by it is extinguished by the counteraction - the phase of time that became the extreme of the past continuity of constancy as opposed to "Nothing", which can be represented as a reflection of "Nothing" in the continuity of its constancy - a reflex. We denote the oscillation between the opposites - "Nothing" and the extreme of the past continuity of its constancy - by the notion of "reflexion".

And it turned out that the term "reflexion" refers (from the Late Latin "Reflexio") to a turning back to the past, whereas reflexion is a reflection.

Artists refer to reflexion simply as reflection, while biologists refer to the coordinated response of the central nervous system of the organism to any stimuli, which is more appropriate to the notion of reflexion, since it is the return of the CNS to the past action by counteraction, corresponding to the moment of oscillation between extremes of the human integrity.

Thus, for example, if the "spirit" animates the human body with its action, the body responds to these actions of the "spirit" with changes.

So, "spirit" generates an action that upsets the equilibrium in the potential of the implementing energy realized by man.

But with the changes in response to the action the subsequent stage of movement generates a new action, shifting the phase of human exist-

ence time to itself. And "everything flows, everything changes", Heraclitus of Ephesus would say, adding that nothing can enter this current twice, while Democritus would say that nothing can enter the current even once, since everything turns out to be in the past - we add.

It follows from what I said above about reflexion that everything in this world is the inevitable consequence of the destroyed causes of this and only this consequence, and everything is the necessary co-cause of the future consequence. This means that everything in this world, what is and how it is, whether it is a co-cause of a future consequence or a consequence of past causes, is inevitable, which means that there can be no other and, at the same time, it is a necessity for something. And most importantly, the cause-and-effect sequence connects the past with current information in an invisible thread, which is important in thinking, especially in reasoning.

If reality generates action, which is inevitable, then the movement is inevitable; the opposition that extinguishes that action is inevitable; the compromise of oppositions, the extremity of past continuity of permanence, is also inevitable; the potential and the levels of energy being realized are inevitable. The angular shifts of information in intervening in the potentials of generated actions are also inevitable. And so on and so forth.

So there are no random phenomena in our world, everything is cause-and-effect - with shift of reality in continuity of its constancy the equilibrium in potential is violated and there are points of vector relations to the violator of this equilibrium. And in response from this point and from each quantum of its integrity there are centrifugally erected differences of degrees of relation to potential. And if a point is an endeme of potential, then potential acts as an ecological niche of this point, with genetic information of future relations, erected in potential. Which, in fact, forms the structure of the point in the potential, including the structure of the human and animal brain.

But the question arises: why is it that something unplanned, accidental happens to us? Is this also an inevitability? It is impossible to imagine how it is that our parents in this infinite and eternal world found each other at that very moment, when our "I" could be conceived from this meeting, which did not happen before. Is this an accident or a natural inevitability? For us it is an accident, because we did not plan

our birth. And so it is a natural inevitability, indicating that our "I" never "died" - it is our destiny to be what we are, to be where we are, there are no other options. This option is the appeal to the past, pulling this past into an inevitable future.

Again, we turn to the notions of "reflexion" and "reflexion," which denote the reflection and reference to the past by the future, suggesting that thinking is the reference to the past, what is recorded in memory by our knowledge, stretching into the inevitable future.

But the question arises as to how the extinguished past can be drawn into current information.

When the carriers of information of the causes of one's being alternate in generations, the information of these carriers is not extinguished in human integrity and the material side of human integrity turns out to be the chaos of fluctuations, or the renewing substance of the genetic information of the individual of the species.

We are carriers of our genetic information, preserved by repetitive fluctuations taking on the meaning of our memory of the past, and yet to these fluctuations preserved by our memory, the factor of dominance is also added by outside information about being and our self in this knowledge, to which the information preserved by memory responds by changes - a coordinated response to this outside information, which we called reflex. And this extrinsic information is compared in the human sensory window, the potential being sensitive to any changes and fluctuations.

And the response of our CNS with the gene information: this pulling away of the hand from a bite or burn, the closing of the eyes by a wave of the hand near the eyes, or, according to Freud, the appearance of desire from seeing the opposite sex, was called, according to Pavlov, an innate or unconditioned reflex. And the response of our CNS by our knowledge of the forms of being and our "I" in this knowledge correcting our state, when the conditioned sign (the dominant factor) releases gastric juice, saliva, or bypassed the seen wicket, where previously encountered an angry dog, also by Pavlov, was called an acquired, or conditioned reflex.

And it turned out that the CNS responds to the factor of dominance and the gene information and knowledge of the external forms of being and its "I" in this knowledge, but with the difference of the latent period

- the unconscious reflex precedes the conditioned reflex (conscious), but this is in our understanding, because a reflex is a reflex, it is unconditional, and confusing reflection - reference to the past, with the concept of reflex - reflection, is inexpedient, confusion appears.

But our goal is not to dispute the names, but to represent figuratively reflex and reflex on the working models of the physiological mechanism regulating blood flow and the thinking mechanism.

## **6.7. to the work of the physiological mechanism regulating blood flow**

As we noted earlier, a human being realizes realized energy with its two forms - potential and kinetic. The potential form of energy is realized by the matrix - the keeper of human soul, and the kinetic form of energy is realized by the substance - the keeper of information about human body. And if the matrix is supported by man's spirit "pushing" the matrix to life, the substance is supported by the matrix and the angular shifts of information materializing the amplitudes of linear space-time shifts, which presupposes the substantive basis of man by the unity of such contradictions of motion as statics and dynamics.

As I. Newton suggested, without "divine thrusts" the planets will not rotate around the stars, because (we add) there will be no angular shifts of information, no material extremity of man, representing the substance of renewing system structures, simply there will be no shifting phase of time of being neither planets nor stars... they will not exist at all.

In biology we know such systemic structures of human corporeality as the nervous system, the cardiovascular system, the absorption-exhaust system, the urogenital system, the musculoskeletal system, the respiratory system, the lymphatic system, etc., and we also know that the structure of each system is provided by the systemic tissue cells with their needs and requirements in relations. And these structural formations manifest themselves in the form of organs with centrifugal and centripetal channels of communication with adjacent organ structures, with which the cells have established contact energy-eating relationships. But, besides contact energy-eating relationships, the system tissue cells enter into distant energy-eating relationships with the system cells of distant system structures. And this function of the supplier of metabolites of the system tissue cells from the human organs is taken by the cardiovascular system (CVS).

Whereas the function of regulator of flows of working cell metabolites distributed in the cardiovascular system is assumed by the central nervous system (CNS).

The cardiovascular system penetrating all human organs through its centrifugal and centripetal communication channels, such as arteries and veins, collects metabolites of working cells of all organs and directs

them through veins to heart, to the "mechanical pump", and from heart, through arterial communication channels it brings these metabolites to consumers - to tissue cells-"bio pumps" which take metabolites from arteries and dump them into veins. The flow of these metabolites in the vessels is called blood, without which the tissue cells, not getting building material for their reproduction, die.

So all human tissue cells take part in hematopoiesis, and all tissue cells find in the blood stream their donor metabolites consumed according to requirements and needs in distant energy-drinking relations.

But the working cells of the systemic structures undergo loads from the external-intrinsic neurogenic, chemical and physical influences that inhibit or disinhibit their metabolism, or even cut off their access to nutrition. And, in the absence of the regulator of inter-system relations and blood flows with their metabolites in the vessels, the working cells can die from the lack of necessary substances supporting their vital activity.

Below we will try to present the work of the physiological mechanism regulating blood flow in a brief form.

There is an opinion (that of the co-authors of this book) that arteries and veins are not communicating vessels, as Garvey imagined. This means that veins and arteries are separated from each other by shunts and anastomoses - tissue-bionosis cells feeding from the arterial channel and dumping their metabolites into the venous channel (or tissue fluid), lowering arterial pressure and raising venous pressure, like a pump between the vessels.

Thus, the heart pump is counterbalanced by a mass of tissue pump cells pulling substance from the arterial channel, which lowers the pressure in the arteries and generates eddies in the arterial blood flow, and dumping their metabolites into the venous channel pushing venous blood to the heart.

The neutron stages of tissue cells - erythrocytes, leukocytes and other form elements, which are transported along the arterial channel together with the blood stream and by the principle of correspondence enter into mating energy-eating relations with tissue cells, generating from this mating relations new generations of their similarity, preserving their quantitative balance, are also dumped into the venous channel. But since a man, working, loads tissue cells, including cells of the mus-

culoskeletal system, accelerating their metabolism, the need for food in the working cells increases, and the pressure in the arteries in the area of the working cells drops, which can lead the working cells to starvation. This means that without the regulator of intercellular contact-distance relations, chaos or equalization will reign, depriving the working cells of food, depleting them.

The centralized "monarch" CNS with its centrifugal and centripetal communication channels is this regulator of human organ system.

And tissue cells, depleted of their working metabolites, inform CNS about their starvation through centripetal communication channels, to which CNS through centrifugal communication channels gives a coordinated - reflex response, narrowing the artery lumen in the zone of non-working cells, redistributing blood to the working cells zone, changing both heart rhythm and force of blood discharge into the artery. So the CNS, by its centrifugal communication channels, either inhibits or disinhibits the conductivity of the tissue cell membranes in the organs, in one case limiting the blood flow in the arteries and in the other increasing it.

With the acceleration of metabolites discharge by the working cells into the tissue fluid the tissue pressure increases, and with the acceleration of discharge into the veins the pressure in the veins increases, which changes not only the tissue tension but also the tone of the veins. Inhibition of conduction of shunt membranes - pump cells between pre-capillaries and postcapillaries increases pressure in the arterial channel and contributes to its drop in the venous channel. Similarly, under the influence of mediators of centrifugal nerve fibers from the CNS, the metabolism of tissue cells slows down, and the suction power of cells from the artery drops, which increases the pressure in the artery. And then the CNS gives a "command" to the shunts and anastomoses connecting the pre- and post-capillaries, inhibiting their metabolism, which increases the flow rate in arteries and veins, and the pressure in the arteries drops. (If the tissue is cavernous, when the pressure in the vessels increases, the cells are filled with blood, and the tension of the genitals increases, the fall of which will occur with the disinhibition of the shunt-pumps between the post- and pre-capillaries).

Tissue (muscle) cells of the vascular walls, like all human tissue cells, respond with their participation in energy-eating relationships -

both contact and distance - to the tissues that change vascular tone and lumen. Muscle cells of vessel walls from the heart to pre-cappiliars and from post-cappiliars to the heart are interconnected by energy-eating relationships, and the vector of their metabolites flow is directed from the dominant metabolites supplier to the dominant consumer (potential difference - voltage generates a directed current) by the principle of a relay race - from cell to cell. And if the dominant factor in the cardiac muscular system is the Gis bundle, inhibiting or deinhibiting the metabolism of the heart muscles, then in the vessels will run a wave of inhibition and deinhibition to the precapillaries, which generates peristalsis, pushing blood in the arteries from the heart. And from the working tissue cells, which change the pressure in the veins with their metabolites, push the blood in the veins themselves toward the atrium. So, to the forces pushing the blood in the vessels, besides the force of blood ejection by the heart pump and the force of drawing this blood in by the cell pump, as opposed to the heart pump, on top of everything else is added not only the pressure in the arteries and veins, but also their peristalsis.

Thus, if somewhere, in any part of the human body, under the influence of external or internal environmental factors, the level of cell metabolism changes, then in response to these changes, the tone of blood vessels and the form of peristalsis will change. The pressure in the arteries will change, the minute volume of blood inflow and outflow will increase; the linear velocity of blood flow will change, the mechanical factor affecting the vessels will work - it is a "muscle pump". Metabolites of the working cells will be determined in the vessels, alerting about the condition in the organ or in the tissue. Afferent discharge will occur in reflexogenic zones, to which CNS responds by a monarch coordinated efferent discharge to appropriate parts of the body. Nevertheless, metabolites of the working cells are spread through blood vessels, changing metabolic levels of cells of both individual organs and vessels. And those, in their turn, will change blood composition and its minute volume by changing. The whole coordinating system, the whole organism will be in motion, and the blood metabolic balance will be optimal for all cells: there will be no all for some cells and nothing for others, there will be no equalization, which can happen during CNS paralysis.



## **Section 7: TO THE MECHANICS OF THINKING**

If "I" see, hear, or feel, this means that "I" "exist," but it does not mean that I think. But when my consciousness responds to any action with images and words denoting those images, then I am thinking. By the word "I" we mean:

The self is the self-assertion of the subject, individualizing in its feelings and knowledge.

So what is thinking, consciousness and thought, and what can we label these concepts in the integrity of the human being?

Before turning to the definition of "thinking" and "consciousness", let us return to what has been said in the previous sections and again briefly clarify what is realized by man and his sensual soul...

As we proceeded, we found out that the energy exercised by the potential charge is realized by man, and any fluctuations in this potential are realized by the feelings of this man. Thus, the potential exercising energy turns out to be the sentient soul of that energy being realized by man, i.e. the potential turns out to be the sentient apparatus of man.

But when the energy is realized, man's integrity pulsates with the rotation of contradictions of reality "is" and "is not": both there is man's integrity and there is no integrity, which interrupts man's feelings with their subsequent restorations.

Since man's information-sensory window opens and closes with the frequency of rotation of contradictions, the past continuity of permanence compared in this window appears as discrete with its alternating failures, now coinciding, now not coinciding with the frequency of man's integrity renewal. As a result the range of information frequency is set in the human information-sensory window, because information with a different frequency of updating is not comparable. Information coinciding with the human's sensuality failure is not comparable. And the merged continuity failure is realized by the "dark" matter on the background of the merged "light" one.

With intervening into potentials of spatial continuity quanta with set frequency of matching, vector directions of relation in potentials are redistributed by angular shifts parallel to reality, which were not there before, i.e. there are changes in potentials, realized by subjective sensations of a person. And since the potential form of energy in the pres-

ence of static constancy appears as a program of the kinetic form of this energy, realized by the human body deprived of constancy (reality), the human integrity does not exclude spatio-temporal fluctuations in response to any actions,

But actions caused by angular and perpendicular to reality shifts are ambiguous.

Perpendicular, centrifugal and centripetal shifts are realized by space-time fluctuations, while angular ones materialize amplitudes of space-time fluctuations.

Since man's energetic-food relations in the environment of his "habitat" rotate 360 degrees parallel to reality, counter waves of material changes in man's integrity, when they happen, leave quanta of their curvature in common points. And the points, taking the meaning of corpuscles, become the nuclei of their excited fields in the amplitudes of space-time oscillations. And "everything flows and everything changes" in the information-sensory window of the subject of the object. And man feels, sees images and hears sounds, touching current information in time and space, reducing this movement to its seven basic forms, such as linear, vibrational, angular, corpuscular, wave, corpuscular-wave and evolutionary, estimated by such contradictions as statics and dynamics.

But hearing, seeing, feeling, as we have already noted, does not yet mean thinking, as there is a difference between external, imposed information and one's own, accumulated and preserved knowledge.

Since information on the forms of being, due to the alternation of the causes of one's being in the generations of carriers of information, in the time tunnel of man's ontogenesis is preserved by knowledge - by non-vanishing fluctuations, any actions in the integrity of man will always give reflex responses, orienting man in his environment, while similar actions will give similar responses.

A man in someone else's yard was bitten by a dog, he does not go into this yard any more, the reasons for changing the vector of the route are fixed in memory as knowledge, and in the process of thinking they manifest themselves as elements of consciousness, and with the exclusion of orientations the vectors of directions would also be excluded.

However, orientation can be unconscious, purely reflexive, non-conscious - to take the example of Brownian motion or gastric juice se-

cretion under the conditioned provocateur; it can also be conscious, when information is comprehended. But for comprehension it is necessary to transform its own vibrations in the human sensory apparatus into conceivable images and sounds denoting these images.

But how in the integrity of man does not exclude the flow, either of outside information, or of the generated by his own carriers of information causes of his being?

And not only philosophy and biology, but also mechanics, chemistry, astronomy, physics with their potentials and their differences, levels of energy, photons, atoms, star-planetary systems, oscillation generators, capacitors, resistors, diodes, triodes, chips, shunts, anastomoses, inductive coils, electric conductors, pipes, pumps, attitude regulators, etc. come to our aid, which assume that photons are particles of light, atoms are particles of molecules, molecules are particles of matter, planets are particles of a system, star-planetary systems are particles of molecular structures of the universe, the universe is particle of molecular structure of time dimension inaccessible to our consciousness; humans are particles of society, and light and sound are vibrations of different frequencies (one is seen, another is heard, a third is touched, etc.). And the filtered and corrected vibrations generated by the carriers of information reasons of their being in the integrity of a human being are realized in thought images and sound combinations, because the potential exercising energy by a human being is sensitive to all kinds and forms of vibrations.

Thought is a convergent order of vibrations in the sensual apparatus of man in response to the subject's appeal to the memory-stored information about the forms of being and the order of sound combinations denoting these forms of being....

But, in the integrity of man, there cannot be any coherent thought and feeling if, among other things, there is no linking thread between the past and future thought of the current information, otherwise any materialized space-time fluctuations will prove to be meaningless.

Becoming forms of movement in the information-sensory window of a human being must be materialized.

So, to see, hear and feel outside information is one thing, while to think is to reproduce the past in that causal order in which this past, seen, heard and felt, has been extinguished by time and preserved by

man's knowledge of the world from everything and his Self in this knowledge. If to any action, preserved by knowledge, information is reflexively counteracted, and to the same form of action there is always one form of response, it is already the turning of the action by the factor of domination to the past and the pulling of this past into the future, i.e., it is reflexion.

But the past is irreversible, and we have found the way to the past without reversibility, the carriers of the causes of their existence alternate in generations in the time tunnel of human ontogenesis, and each generation, duplicating its producers, becomes the informant of the information preserved in the object. The solar system generates its semblance of planetary systems; photons, atoms, tissue cells generate their semblances, as chimp monkey generates chimp monkey; man generates man. And information about a human being represented by born individuals - carriers of information of the reasons of his being in the Earth biosphere - is not extinguished for many millennia; and in fluctuating closedness, "substance"- "matrix" of a human being, information recorded by his knowledge is preserved for life, exactly as long as he lives, i.e. while "substance" is renewed and "matrix", being fed, "animates" the substance.

Structure of the brain (substance) with its gyrations and grooves between them, acting as parallel plates of capacitor, turned out to be such that information coming into integrity of the subject returns as distorted (materialized) substrate into brain (substance) and is not immediately emptied, which we called memory. A classic example of information preserved by memory is the cosmos - there are no past stars in the Universe, but information about them is preserved in the cosmos.

But speaking about oscillations, both space-time and material-information, we must also touch the question of amplitude of one shift in oscillations, and its vector direction, because oscillations are both combined and separated, and each oscillatory contour, combined in one amplitude, is materialized by angular shifts of different vector directions, due to one or the other reasons. And if in reality there cannot be material and space-time reference points, in the human integrity these reference points are not excluded, as the extremes of his integrity and the difference of degrees of attitude to these extremes and to the current information are not excluded. Especially when the amplitude of spatio-

temporal fluctuations turns out to be materialized by the current information, and the current information falls into the spatio-temporal dependence, which reduces the information to chronological order.

Thus, if carriers of information causes of their being in the human integrity alternate in generations, and information about these carriers is not dampened, allowing the chaos of oscillations realized by the human body, where the pyramid of energy-food relations concentrated by the monarch in the CNS is built, the monarch under the influence of the dominant factor, including filtered in the biocapacitors, changes his past relations with some nerve cells and adjusts relations with other cells, inhibiting information flow in one direction and disinhibiting in another, and curvature of former information in the cerebral hemisphere cortex is replaced by curvature of current one, read by potential, implementing energy integrity of a human being in causal order. And the difference of curvature between landmarks in the information-sensory window of an individual is a new dominant factor for the monarch, which does not exclude shifts of information in the pyramid of his concentrated relations.

And these cause-and-effect, space-time oscillations between extremes of human integrity, as well as angular forms of movements materializing the amplitudes of these space-time oscillations, in the sensual apparatus of man are realized by images and sounds preserved in the knowledge of the forms of being and his Self in this knowledge, correcting the subject-object in current information, which we called consciousness.

Since the current information is not instantly extinguished and fluctuates in chronological order between the furrowed gyrus of the big brain hemispheres, the thread in the current information, between the previous and the subsequent thought, is not interrupted, and the fluctuations in fluctuations are comprehended in the human sensory apparatus as something, in something, somewhere, why, etc., which is the difference between the natural intellect and the artificial intellect.

A movie projector cannot think because it has, among other things, no structure that preserves third-party (frames on the tape) information in its material extremity with its knowledge. The structure and thread between the frames projected on the screen is with the viewer making sense of the current information. Thanks to the space-time connection

between the overlapping amplitudes of oscillations materializing in cause-and-effect order, a man comprehends volumetric forms of being, sees conceivable images and hears conceivable words denoting these images and events...

As to our knowledge, any information about the forms of being that is stored in our memory and merged in our information-sensory window in chronological order in the form of conceivable images and words encoding the complexes of information, is the knowledge about these and only these forms of being.

When pronouncing the word (the word is the dominant factor) encoding the complex of information preserved by knowledge, this entire complex of information is released from the substance into the matrix, being realized in cause-and-effect order by thinking of something, somewhere, in something, why, since the cause-and-effect relation in chronological order unseen thread connects past with future, since this past is substantive. And if in the chaos of fluctuating information the dominant factor of a feeling, sound or image is determined, then in the causal order with this fluctuating substance of information recorded some time in the past, the whole complex of information encoded by this feeling, image and sound, which we called a reference to the past, or reflexion, will be released. And a series of following sounds unwinds the thought images and events in our consciousness. And a person thinks with a spontaneous shift of information to the continuity born by the "spirit", which entails a series of causal events related to this information. The carrier of the dominant factor can be arterial blood (hormones and other chemical substances), external environment (sound, word, light flow, smell, and other physical and chemical factors), an action produced by "spirit", etc. And any information excited by thought will be shifted by the natural continuity of reality in the integrity of man and return by knowledge to the labyrinths of the individual's brain tissue, which we have called the essence of what is - into substance.

Thinking cannot take place when the vibrations in the gyrations preceding the current vibrations in the form of landmarks and beacons, otherwise the thread of thought will be interrupted - there will be chaos of meaningless sounds and glow. And regardless of whether a person is asleep or awake, the oscillations in the gyrus of the brain and between

the gyros do not fade, only in one case they are realized by the dominant factor in thought words, in the other - thought images and dreams.

When one is awake, the dominant factor is the external environment, and when asleep it is the internal environment, even if it is excited by the external, dream-correcting environment. The only question is what disconnects human consciousness from external current information and connects it to internal current information, which we called dreaming, or thinking with images.

As we know, a human alternates the waking state with the dream state, because carriers of information of the reasons of his being alternate in generations and the material side of human integrity is polarized by an excess of anions and an excess of cations, in one case accepting external information, in another - inhibiting external information flows, due to which the dominant factor in dream becomes the information flowing in dreaming. (When a thinking image becomes the dominant during waking, psychiatrists start dealing with the person.)

So the "Nothingness" with its nature, the monarch, and the volume of our knowledge, without which no action of "spirit" can release our thought, turn out to be the engines of our thought. Understanding:

Thinking is reflection, or it is the order of fluctuations that is merged in the sensual apparatus of man, realized in the conventional images and sounds denoting these images and events, with bursts of emotion on these conventions, preserved in the memory of man by the knowledge of them received during his life cycle.

By the word emotion we understand the reflexive response of the CNS to a complex of conventions, which finds its expression in the state of the subject object.

Current information is comprehended through vectors of knowledge, including the language of communication, which reduces thinking to reasoning, and the person with this reasoning to consciousness.

Consciousness is the individual's orientation in current information by vectors of knowledge about forms of being and his/her "I" in this knowledge, or comprehension of current information by knowledge about being and his/her "I" in this knowledge.

Substance, animated by the individual's matrix, is realized by the knowledge of this individual, orienting the individual in his environment.

When third-party information merged in the sense window of an individual deforms his matrix, and the matrix, being restored by spirit, releases this information into substance, then with the next merging of this information the substance responds with what is - past information, and in this causal connection between past and current information this third-party information, summarizing current information, is realized (information materializes in something, somewhere, why).

Third-party information is comprehended by an individual if it was recorded in the past with the complex of information preserved by that individual's knowledge. Otherwise, this third-party information will be unrecognized. And if this third-party information turns out to be a word - an order of sound combinations encoding complexes of information in the causal order, then this word would be recognized and meaningful only if the individual is endowed with knowledge of the language of communication to which the word belongs.

A word in a language of communication can mean nothing (as well as a letter in a word), if it is not connected in cause-and-effect order with the complex of stored information and is not supported by the subsequent word (letter), which orientates the previous word in the stored information.

But each person's baggage of knowledge is individual, including the stock of words, and the volumes of information encoded by these words of communication are not equal and are not identical.

Therefore, when comparing forms of information coded by one word, there will be a residual information, coded by another word, which will be communicated to the interlocutor. This is how both contact and distant energy-eating relations are carried out between individuals on the donor-recipient principle, only as metabolites the interlocutors will exchange sound combinations - words, talking or, we can say, reasoning about something, or exchanging conditional signs, like a writer with a reader.

Before we move on to the final part of our work, we want to define "man.

So who or what is man?

Materialists believe that man is highly organized living matter...

Idealists believe that - man is God's creation in his image and likeness...

Biologists believe that man is a species of animal...



Sociologists believe that man is a social element...

Philosophers believe that man is a unity of contradictions and a substratum of opposites...

Physicists and chemists decompose man into his constituent parts...

Whereas in our work man is both a reasoning animal, an energy, a form of motion, a phenomenon of nature, an integrity in the presence of opposing extremes, even the identity of the universe ... suggesting that man is everything ... even the simple philistine who says, "I am man!"  
And what does the Reader think?

## CONCLUSION

In the final part of this work, we revisit the material we have covered, beginning our marathon with objective forms of being... from the point of view of my "I.

In our work we do not touch those temporal dimensions in whose tunnel the Universe looks like a particle of light - a photon, and a photon looks like the Universe, but we take into account this fact, knowing that the temporal continuity of Eternity has no beginning and will have no end, it ends with us, and from our Self it takes its beginning, whereas the real "Nothing" is not limited - infinite, and we are limited - finite in the time tunnel of our being.

So, we cannot embrace eternal infinity, get a full picture of the universe and know about everything in this world, we can only know about reality which is common for all forms of being, know laws and regularities of nature and unified principle of formation of forms of matter into cause-and-effect stages of motion.

Proceeding from the above, we conclude that all forms of being are revealed only by one, material side of their integrity, while the other side, the reality or sphere between the past and future continuity of eternity is common to all forms of being: god is one for all, yet everyone has his own god - "spirit", both the photon, the atom, our tissue cells, us, the solar system and the universe. And just like us, everything has its own sense apparatus. Stone is preserved because the elements of its molecular structures alternate through the generations, preserving the stone's genetic information. But unlike our corporeality, stone has no autonomous organ system of centralized unity, so in the integrity of stone there are swaying spatial and temporal relations, but nothing more than the chaos of oscillatory contours. An objective stone, like our brain, cannot think, but it can be one of the causes of a future consequence - such are the stone's properties.

Summing up our reasoning about the causal bases of man, his thinking apparatus and thought engine, we drew a line between statics and dynamics, and came to the oscillations of the realized thought forms of being.

The oscillations in the range of light waves in the integrity of the human thinking apparatus have realized into conceivable images and

events, and in the range of sound waves - into conceivable words and sentences denoting these images and events (Dreaming is thinking with images). And We have repeated what R. Descartes once said: "I am thinking, so I exist". And we added: "To see, to hear, to feel means to exist, but it does not mean to think, much less to reason.

It was by reasoning that we were able to answer the questions:

Question 1. What separated man from his animal ancestor?

Answer: The ability to reason enabled the animal not only to adapt its environment to itself, which made its labor consciously purposeful and socially useful, but also to develop a language of communication in the environment of its likeness, which made the animal a social element, or a reasoning man, who said goodbye to his historical past. And the ability to reason was conditioned by the brain structure, which changed - the grooves of the brain's large hemispheres deepened in the process of mutation related to the evolution of the animal's ecological niche and its efficiency increased - with the evolution of the ecological niche, its endemic evolved as well.

Question 2: What is thought, matter or non-matter, and what is realized in human consciousness by matter?

Answer: In man's consciousness, forms of motion are materialized, and man thinks, but not the extremes of his wholeness, such as matter and immaterial reality-"spirit.

Question 3: What is realized by man and his sensory apparatus?

Answer: Man realizes the energy realized by the potential with the appropriate energy level of balance (charge) of reality possibilities providing the potential with its function, while any fluctuations in this potential are realized by man's senses, which transforms the potential into this man's sensory apparatus.

Question 4: What in the integrity of man performs the function of the engine of thought and what performs the function of the keeper of information realized by our knowledge of the forms of being?

Answer: The material extremity of man's integrity is the substance which is the carrier of that knowledge which man has received during his whole life, while the carrier of man's genetic information is the matrix in the presence of the immaterial extremity - the "spirit" which shifts the phase of human existence time to itself, performing together with the matrix the function of the thought engine.

Question 5. what in the integrity of man establishes the relations between the carriers of information of the reasons of his being, releasing this information by our knowledge?

Answer: Thanks to energy-eating relations between carriers of information of the reasons of one's being, it is possible to regulate information flows by braking and disinhibition of these flows. And this regulator of information flows can only be the unity that concentrates around itself the carriers of information of the causes of one's being in the material extremity of human integrity. And this unity in the human integrity is the nerve cell, which occupies the peak of the pyramid in the hierarchy of energy-food relations in the CNS, taking the status of the monarch

Question 6. Why in the impermanent, mortal world, where "everything flows and everything changes", is information about the forms of being preserved by our knowledge about them?

Answer: Carriers of information of the causes of their being, such as centralized unity-nucleus systems - photons, atoms, star-planetary systems, the universe, tissue cells, man alternate in generations, repeating information of their producers, which, renewing substance, preserves information in the integrity of man by our knowledge of them.

Question 7: How is the order of changes in the human thinking apparatus transformed into thought images and words denoting these images?

Answer: in the integrity of any form of being linear - space-time shifts in the form of standing waves between its extremities and angular shifts in the form of running waves materializing the amplitudes of standing waves parallel to the reality. And vector directions of angular forms of movements converge and diverge, leaving quanta of their curvature in the points, and the points become carriers of information of reasons of their existence in the standing wave amplitude. Since the energy realized by the potential is realized by man, the potential changed by the dynamics of running waves turns out to be the sentient soul of man. But since in the human integrity the vibrations of different frequencies and vector directions, creating chaos, to which the human is adapted, are not damped down, only the dominant factors on the background of chaos, materializing in the human sensual apparatus, take on the meaning of matter forms. And the dynamics of changes of becom-

ing forms of matter into causal stages of motion, merging, are comprehended, because the structure of substance in the integrity of a human being, realized by the material extremity of his integrity, provides a human being with the preservation of information with its vector directions, the filtering of frequencies and regulation of information flows by inhibition and disinhibition of these flows, realized by images, sound-words, denoting these images.

Thus, concentrated by unity - monarch, corrected by multitude - dominant factors and filtered in capacitors oscillations in the range of light and sound waves are realized already in conceivable images and sound combinations denoting these images, which were once seen and heard by man.

In the course of researching the subject of our interest, we obtained the following results, which have elements of scientific novelty:

- We have obtained an unparalleled theoretical model of the integrity of man, his thinking apparatus and thought engine, presenting integrity as a substratum of opposites such as unreal materiality - objective corporeality, and real "spirit," by actions animating corporeality, which changes in response to these actions. And between these extremes of human wholeness the space-time fluctuations, in the range of light frequencies being realized in thought images, and in the range of sound frequencies in thought words denoting these images, and the feelings arising from these changes, do not fade away;

- we have conceptualized human integrity with its extremes, such as unreal material corporeality and real "Nothingness" - "spirit", we have noted that neither human corporeality, including his brain, nor his "spirit" can think, only man can think because he is the substrate of opposites and any changes or vibrations between them, the extreme necessities of his integrity, are realized by human feelings;

- we labeled the phase of the temporal continuity of eternity with the concept of "reality," representing in our reasoning a sphere between the past and the future continuity of static permanence, taking the meaning of "Nothing"; we excluded in reality matter, which can be neither alive nor dead; we, unlike ancient thinkers and their followers, found the basis for the integrity of the world from everything and everything in this world, representing this basis with the derivation of "Nothing" - the continuity of permanence extinguished by the temporal continuity of

eternity; we by our sensuous systemic structures, centralized by unity, could generate its likeness, but non-centralized ones could not. And we called these ambiguous in structure forms of motion living and nonliving matter;

- we gave a philosophical interpretation of the concept of reality and pointed out what its work as the primary cause of motion is to produce by the stage of motion the action and its opposite, while remaining in unity.

- we have explained how and why the forms of movement centralized by unity and corrected by multitude alternate in generations, duplicating their producers, so that in the integrity of man the information of these forms of movement is preserved, whose ontogenesis stages sway the material extremity of human integrity, realized in thought images, words and feelings.

- We have indicated what in the human integrity is the subject, and what is the object, and what of them converges current information:

The fluctuations in the substantive extremity of human integrity are merged, and these fluctuations in human integrity are merged by the matrix in the presence of "spirit," and that which is merged we have designated by the concept of object or human corporeality, and that which is merged by the concept of subject or soul.

- We have designated the engine of thought that regulates the flow of information in the integrity of man, denoting this regulator by the concept of "monarch":

Modeling the human thinking apparatus by the dialectical method of reasoning, we abandoned the established opinions about reality, matter, and motion and took on faith those opinions that are necessary - the "Nothingness," or sphere between the past and future temporal continuity of eternity, with its possibilities of unity and contradictions that jolt animating the material world, which led to the solution of the task at hand. As a result, the second, immaterial extremity of human integrity and his thinking apparatus was found - the "spirit" and the dominant factor focusing information flows in the CNS, which took on the status of a monarch.

Actually, the proposed model of man's integrity, his thinking apparatus and his thought engine, which has no analogue, is the novelty of the worldview, which answers the question: what is thought, why and

how? And, what is realized by us, our mortal corporeality, immortal "spirit" and sensual "soul"?

Thus, having comprehended (formulated) the notions of "thinking" and "consciousness", we managed to build a theoretical model of the human thinking apparatus that represents an integrity with such extremes as reality (statics) and matter (dynamics) becoming in the stages of motion, between which the space-time relations swing, the order of which against the background of the chaos of oscillations is realized in thinking, and the correction of directions by the vectors of knowledge about being and its "I" in this knowledge, which orient the thinker in the current information, is realized by the consciousness of the thinker;

- we gave reasonable interpretations to such philosophical categories as reality, matter, materiality, motion, spirit, energy, subject, object, substratum, substance, matrix and form; under the word "form" we understood the limitedness of our information-sensual window with a complex of confluence factors without which the construction of the human thinking apparatus is unthinkable; we designated the engines of thinking "spirit" - animating human corporeality, the natural basis of opposites, shifting current information to itself, and monarch - bringing order to the chaos of vibrational circuits in the CNS, by the word "monarch" we mean the peak of the pyramid in the energy-food hierarchy of nerve cells in the CNS;

- we substantiated scientific paradigms such as man and causal bases of his integrity, reality and objectivity, matter and materiality, consciousness and being, spirit and nature, statics and dynamics, reality and conditionality, comprehending the principle of becoming forms of matter, principles of information shift towards least resistance, principle of correspondence, relay principle and domino principle.

Finally, we also have an opportunity to answer the questions: what is the meaning of our existence and where does the thinking soul of man, which identifies his "I", go when he dies?

We do not know the meaning of being in mortal nature, but when we have a task to solve, and we try by all natural means to achieve this goal, then we grasp the meaning of our existence in this creative interval of time. But what pushes us into a creative marathon when we know that our life is finite, and without hope for the future all our creative activity is meaningless. And yet, we continue to create - writing

theories, falling in love, creating a family home, building a future where the old could not hold, and even dying for a place "under the moon" in the struggle for existence. Why? Is it because that is our nature, leading us to an unconscious form of existence... But when we are aware of the world of material forms of existence and ourselves in that world, what factors can push us to create other than the natural instincts inherent in any biological species?

Since the time of Adam and Eve, the problem of survival has always been one of the main stimuli for human activity, aimed both at creation and destruction. In searching for a way to survive, man turns to his nature to find his invulnerable sides, turning also to the nature of the world around him to find loopholes for his well-being.

Studying the world and himself in this world by trial and error, man becomes a source of knowledge, not only for the sake of curiosity, but also for the solution of problems of survival, pushing him to new problems in a world of competing worldviews.

What was it that pushed Giordano Bruno toward this new problem that subjected him to his exorcism? What difference does it make what revolves around what--the Sun around the Earth or the Earth around the Sun? Was this knowledge worth his life?

The scientist philosopher was not driven by mere curiosity or the problem of survival; he was driven by knowledge, love of wisdom, responsibility for the future, faith in truth, and his religion.

Many philosophers have lost not only their freedom, but also their lives for their worldviews that differed from established worldviews, and yet they created the future of science to their last breath while remaining rejected by their peers.

Among the rejected creators of future science were those who denied reality not only matter, space, time and reason, but also motion itself, taking reality as a static permanence or "Nothing" that required no elementary reasons for its existence - creator, receptacle and spatial areas - which aroused negative emotions among their contemporaries.

Is "Nothing" more difficult to understand than what we call matter, which somehow not only exists, but also creates and is created into living and inanimate forms of being, changes and modifies, reflects and reflects, pieces making sense of its being in another, underdeveloped



piece of matter, moving in itself as in space and time, and struggling with itself as the opposite - sheer fantasy.

Even God, according to whose idea matter and our souls were created, cannot comprehend what godless matter does - so believed idealists who believed in the mind of the Creator, as Plato in his dialogue "Timaeus" believed in the Father with demiurges who create the human soul and corporeality from matter of Heraclitus of Ephesus and Democritus. Whereas on the other hand - well, who needed to create an eternal infinity with combined one in another moving and changing mortal forms of being, excluding in this infinity the creator himself. All unanswered questions. Even Aristotle with his divine origin could not answer the question: - where did the opposites come from - the divine origin and matter with their common substrate, and what caused the motion, why and how?

Making sense of the above, one involuntarily begins to understand the philosopher who identifies reality with the concept of "static constancy," which excludes matter, space, time and motion, reducing reality to "Nothing" - to an absolutely causeless simplicity that requires no creator, receptacle and bricks of the universe.

Believing in the philosopher's truth, one involuntarily begins to look at everything simply, realizing that it is the preservation of reality in its simplest, as "Nothing", static state in the continuity of its constancy, that is the movement, requiring no forces applied.

And it becomes clear why and how "Nothing" - the sphere between the past and future temporal continuity of eternity, takes the meaning of the primary cause of motion.

Because "Nothing" is causeless, it can neither arise, nor annihilate, nor change, while generating motion that is realized both by our consciousness and in our mind in the form of moving and changing matter.

It seems simple... But it turns out that it is not so simple, because the Nothingness takes away the meaning of our existence, erasing the line between life and death. If with the deity the hope of eternal existence of our soul did not disappear, with "Nothing" this hope disappears (But this is a mistaken view, because it is "Nothing" that gives us eternity).

Man cannot accept the final end of his existence, he wants to believe in his immortality and does not lose hope in the future; without hope in

the future all human creative activity loses its meaning. And man begins to believe in immortality of what Plato called the human soul.

But who or what can confirm that our soul is mortal or immortal. Assuming that the soul is the sensuous side of the subject object (man), identifying his "I."

If reality is immortal and objective materiality, including our corporeality, is mortal, where will our soul go when our corporeality dies and what corporeality will it acquire? This is the question that the great Shakespeare once posed through the mouth of Hamlet. It is not death that is frightening, but the unknown after death, the authors of this book added.

When we bury a man, we bury not his wholeness, we bury his material extremity, but not his reality-not his "spirit" and not his soul, which never existed in reality or in his objective corporeality. The soul was in the very integrity of man, one extreme of which was material - soulless - and the other real in the presence of the soul.

When man "dies," his wholeness loses its material extreme, which his contemporaries extinguish with time - "bury," while its immaterial extreme, or its original cause ("spirit") remains unextinguished. But the preserved reality generates again its opposite, which is not identical with the "buried," and the "soul" continues to exist because the preserved reality of the person's "spirit" remains in it. So it is not the "soul" that leaves a person and not the "spirit" that is emitted by him, but the corporeality - the genetic information - leaves the integrity of a person. Because born continuity is informed by the curvature of quanta of happened time dimensions incompatible with "life" (with gene information) of the material extremity of human integrity. And this means that born material extremity of human integrity with information of temporal dimensions is not the identity of time extinguished (buried) corporeality.

And human corporeality buried in the tunnel of the past temporal dimension is replaced by corporeality born as a phenomenon of nature in the tunnel of that temporal dimension in which human "soul" has remained in constancy.

So in the tunnel of another temporal dimension the opposite of the preserved "spirit", the phenomenon of nature "is born" the human body not identical with the buried one, and the human "I" finds its continua-

tion in the tunnel of another temporal dimension with the information of the newborn - from a clean sheet.

The human soul, identifying with its "I," is not interrupted in the continuity of permanence. It continues to exist in another temporal dimension. Otherwise, if the soul is interrupted and not in the continuity of permanence of the continuation of the human "I" in the presence of reality, there will be no identity between the interrupted and the newly reproduced soul.

To assert or refute the view that in another temporal dimension our "I" finds its continuations, no one can, since there is no direct evidence except indirect evidence, such as:

1. Our physicality is constantly renewing - cells alternate in generations and the physicality with the past generation is not the physicality with the one generated in its place, while the "I" of the individual finds its continuation in the physicality with the new generation of carriers of genetic information. The "self" of the individual is not interrupted from the moment of its conception until its "death."
2. Behind us is a past eternity; before us is a future eternity. Am I so fortunate in this eternity to be born in its current moment?

If the first case can be explained by the preserved gene information, the second case, which excludes the preservation of gene information, cannot be explained except by a regular eternal reality, which was in the potential of the subject-object in one temporal dimension and found its continuation in the potential of the subject-object in another temporal dimension.

The immortality of our "self" and "spirit" can only be believed or disbelieved as in the mind of God and matter. What is not provable and we take on faith is our religion. But belief in the continuation of one's "self" in a tunnel of another time dimension, belief in reincarnation and existence after death are different faiths because the continuation of one's "self" in a tunnel of another time dimension, is not reincarnation - implying the human soul and corporeality converging and diverging realities in one temporal dimension, and is not existence after death, because the human "I", if interrupted in the temporal continuity of Eternity and counted back in time, will not be its identity in the future. Time is irreversible, what has died will not be reborn again, and only corporeality dies because it does not exist in reality, while what does

exist in reality - "spirit" - will never die - the truth in the continuity of permanence.

Eternally changing, born and dying matter has excluded not only the meaning of man's being, but also his eternal existence.

God, the creator of matter and everything in this world, has reassured man in his pursuit of blissful and carefree eternal life, identifying with this hope the meaning of his being. Whereas the Nothing, by excluding in reality the existence of both "living" and "non-living" matter, and by identifying itself as the animating extremity of man's pulsating wholeness, gives eternity to his "I," but it also makes his existence meaningless. And only man himself finds the meaning of his being in being itself when his creative activity achieves the goal he has set. And it is not only curiosity and the problem of survival that push man to create in this creative marathon, but also faith in truth, religion, love of wisdom, hope and responsibility before the future generation.

What role the output of this work will play in science, the future will tell. But there is hope that human beings, thanks to these outputs, will exclude mysticism from their reasoning about the world of anything and everything in this world, including human beings.

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Philosopher - Yury Mikhailovich Amirbegov, the author of the monograph "Mechanics of Thinking", being a postgraduate of the Russian Academy of National Economy, has modeled the human thinking apparatus, centralizing it as a monarch - regulator of information flows in the human mind.

Biologist Mikhail Rubenovich Amirbegov, the author of the book "The Theory of Time or the Principle of Formation of Matter Forms", supported Amirbegov Y.M.'s idea with an answer to the questions that arose - "why" and "how" this human thinking apparatus works, and became a co-author of his work.

## GLOSSARY OF TERMS

Possibility is the acting necessity in a potential

Put another way, possibility is a realizing force in a potential in the necessity of its function.

Time is the product of our consciousness, or the countdown of the conditional amount of movement from event to event. (The conditional damper of the continuity of permanence).

The state is an ecosystem monopolized by one species and centralized by the individual of that species.

Movement is the preservation of the unity of reality in the continuity of its permanence, or the shifting of statics (nothingness) from the past continuity of its permanence to the future continuity.

Inertia is the gratuitous state of statics in the continuity of its permanence, or the static form of motion.

Information is a message to the future about the past

The quality of an object of interest is to be what it is, in all forms of its manifestation in time and space as a unit of quantity in number and in numbers.

Quantum is a part of curvature (or - it is a part of wholeness).

Quantum is a set of conditional single-valuedness by criteria of dimensionality, taking the meaning of numbers or numbers denoted by numbers.

Culture is a unifying population (families, nationalities) tradition of serving a cult, its moral, ethical and aesthetic foundations.

Matter is the movement that finds its concrete expression in our consciousness.

Materiality is the essence of limitedness.

The concept of materiality is consonant with the concept of substance, denoting the essence of what is.

Matrix is the soul of the subject-object, animating substance.

Thought is the order of fluctuations in the individual's information-sensual window in response to the recourse to memory-retained information about the forms of being and the order of sound combinations denoting these images....

Thinking is a reflexion, or comprehended in the sensual apparatus of an individual the order of oscillations, realized in conditional images and in conditional words denoting images and events, with bursts of emotions on these conventions, preserved in the memory of an individual by the knowledge about them received during the period of his life cycle.

Nothingness - absolute peace, or static constancy.

Potential is the performer of activity.

Nature is action, or continuity of constancy, born of divine reality - in ancient Russia everything under the parent god Rod was called nature.

Space is the continuity of permanence born in the integrity of man, limiting the materiality extinguished by time. Put another way, it is the natural continuity of static permanence in the integrity of the thinker (individual).

To reason is to have a dialogue with oneself or with an outside interlocutor about a subject of interest in a developed language of communication, leading to a comprehension of the unknown in the known and the known in the unknown, i.e. reasoning is a method of making sense of the object of interest being studied.

Reality is that which is gratuitous, non-causal, unchanging and indestructible, i.e., it is the static permanence or "Nothingness" between the past and the future temporal continuity of eternity.

An event is a comprehensible form of motion.

Consciousness - orientation of the subject object in the current information by vectors of his knowledge about being and his Self in this knowledge (what we called comprehension of the current information by knowledge about being and his Self in this knowledge).

Substance is the time-quenched materiality or essence of what is.

Substance is the natural basis of opposites.

Destiny is being what is, being where it is, being when it is.

Phase is the extreme of incompleteness that has become a stage in the movement.

Form is a limitedness materializing in our consciousness, finding its concrete expression by such factors of comparison as steepness of curvature (tension), polarity, tonality, height, length, latitude, frequency-order. (This is a comparable constraint.)

Function is the assignment of activity.

Integrity is what there is in the presence of opposing extremes, or it is the substratum of opposites - reality and materiality.

Energy is an exercised activity

Self is the self-assertion of the subject individualizing itself in its feelings and knowledge.

## APHORISMS

**Life is movement**, and to live is to be complicit in movement.

**In the** inanimate nothing will arise that is alive.

**There is the I** and the world for me, there is no me, there is no this world, and if the world is the cause of my existence, then I am one of the causes of its existence.

**The world**, which I contemplate and feel with my sense, is inherent in me alone, it is born with me and dies with me. Man is alone in his sensations.

**The longer** the day of our childhood, the shorter the day of our old age. Whoever says that philosophy is a dead end and there is no way out of the dead end has been bypassed by wisdom.

**Philosophers** do not become philosophers - philosophers are born, and wisdom comes with the age of the philosopher. Wisdom will never lead philosophy into a dead-end, where the projects of philosophizing politicians, wise orators and authoritative dreamers, taking wishful thinking for reality, but not philosophy - which will burn with "living fire" until the last reasoning person leaves this world.

**Philosophy is** the love of wisdom, but not wisdom or science... Philosophy seeks, asks, and knows; wisdom knows and answers, while science is the result of our theoretical knowledge backed by practice teaches.

**Truth must** be sought in the utmost simplicity, for nature does not "love" complexity - it is as simple as its unchanging producer. Truth is an indestructible, unchanging and indestructible static permanence that always answers the same question with the same answer, yes or no.

**Truth** is the continuity of permanence.

**Do not** confuse the concept of "truth" with the concept - "truth" and "falsehood," for falsehood is as true as truth.

**I see, hear, feel** - it means I exist, but it does not mean that I am thinking.

**There is no** living or inanimate matter, there is no matter in reality, just as there is no death in reality.

**It is not death** that is scary, but the unknown after death.

**We do not** know the meaning of existence of mortal nature, but when we have a task to solve, and we try to achieve this goal by all natural means, then we comprehend the meaning of our existence in this creative interval of time. And it is not only our curiosity and our problem of survival that pushes us toward this creative marathon, but also our love of wisdom, our knowledge, our faith in truth, our hope for the future and, finally, our religion.

**The mystery** of darkness gives rise to many interpretations of not.

**M.R. Amirbegov, Y.M. Amirbegov**  
**THE ONTOLOGY OF THE CAUSAL BASIS OF MAN**  
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**TO THE THEORY OF TIME**

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**Yuri Mikhailovich Amirbegov**

**TO THE THEORY OF TIME**

**WHY THE DINOSAURS BECAME EXTINCT**



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## FATHER'S NIGHTTIME STORIES

As a child, writes Y.M. Amirbegov, I loved it when my father, the co-author of this book, would tell me tales of his fantastic adventures and my personal assistant in the person of my father before going to bed.

Usually any story my father told me was a commissioned one. On occasion, if I didn't like something in the story, I would stop my father and change both the plot and the mise-en-scene, including the hero's strategy and tactics.

The subject would change depending on my question, and the question would arise depending on the impressions of the day and my mood.

Many years have passed since then, I am no longer a child, but I still listen to my father's stories about time and reality, which my father called "Nothing" in his book "The Theory of Time or the Principle of the Formation of Matter.

One day, during another conversation with him, I remembered his night stories and asked if he remembered them. To which my father replied, "I remember everything, and you remember that you promised to write about our fantastic adventures when you were big.

Begin," my father told me, "don't be afraid, if anything, I'll come to your aid as your squire.

I made up my mind. But to be honest, I put all the weight of my story on my father.

Why? Because I am only retelling his stories.

## THE PARADOXES OF EVOLUTION

### CATACLISM

As a child, I loved the television program "In the Animal World.

I especially liked the program about wolves, elephants, lions, monkeys and crocodiles.

And then one evening, while showing monkeys and crocodiles, for some reason Darwin, Haeckel and Kant were remembered. I don't remember what they were talking about, because I was fascinated by the animals and their behavior, but I remembered some of the presenter's words related to these animals - evolution, cataclysm, Darwinism.

Why were these monkeys with the word evolution twinned with Man, and crocodiles with extinct dinosaurs? - I asked my father a question at the end of the animal show.

"That's the way it's supposed to be according to Darwin," my father replied and pointed to the crocodiles.

If I listen, will you tell the tale of Darwin, Heckel, Kant, and the cataclysm," I asked my father.

My father agreed, as usual, and I yanked myself into bed. After turning off the TV and sitting down on my bed, my father began his story.

In one kingdom, in a faraway land, there was a wise man, who had nothing to do in his own country, and he decided, at the instruction of his parents, to go on a trip around the world. This traveler's name was Darwin.

Darwin traveled for a long or short time, only he knows, but during this time he saw a lot of interesting things on his way. He saw animals from overseas - swimming, flying, crawling, hopping and even climbing trees. Some of these animals were even similar to those living in his state, but different in their species - size, color, behavior.

And what was Darwin's surprise when he saw swimming mammals and flying fish.

"Aha," he said, "birds came from these flying fish. And frogs came from the non-flying fish."

It was known then from Lamarck (that was the name of one scientist) that all animals, birds and plants undergo changes in the course of their evolutionary development.

"Is that why Man looks so much like an ape?! - exclaimed Darwin. - So those monkeys who got smart became Humans, and those who didn't want to get smart remained monkeys."

But as he was thinking about this, a storm broke out in the ocean, and the ship Darwin was on rocked so much that Darwin lost his balance.

"Did you call out for me? - Darwin suddenly heard Geckel's voice - he was such a scientist.

"I did," said Darwin, "I have some things to sort out here. "But I didn't come alone," replied Geckel, "Kant came with me. He, too, was a scientist - a philosopher.

"Follow us," said Kant and Haeckel to Darwin, and, waving a magic wand, Kant opened a window into the past, and Haeckel took Darwin's hand and, pushing him through that window, followed him with Kant.

'Dad,' I stopped my father, 'where was I with Dad?

"You were with me in the future, so we were not together with Darwin," my father replied and continued his story.

So Darwin, Kant, and Heckel went to a past where there was no time, no matter, no light; no photons, no atoms, no solar system, no universe.

"How dark," said Darwin, "we can't see anything like that.

But Kant suddenly waved his wand, and, Darwin saw in the tiny darkness a luminous dot.

"What is it?" - Darwin asked Kant.

"I don't know yet," answered Kant, "but in the future this point will be called a photon.

Suddenly the clock started ticking.

"Hurrah!" shouted Darwin, Heckel and Kant, "There's a matter and it's time. Now the cataclysms will begin," said Kant.

No sooner had Kant uttered the word "cataclysm" than this glowing point in the pitch-dark began to expand at great speed.

Thus Darwin, Heckel and Kant witnessed the birth of the universe. Fiery particles of matter swirled at enormous speed. The fiery swirls collided with each other to form material bodies - stars, and the cooling particles were folded into planets.

As the stars appeared, it became brighter. The darkness receded. Only the Solar System remained to be found, where our heroes set out.

"I can see our Earth," Darwin said excitedly.

"But we can't go there yet," said Kant, "because it has not yet cooled down.

"We'll watch it from the sidelines," said Haeckel.

At this point our heroes decided from the outside to observe what would happen, and when their time came, from which they had gone back in time, they would come down to Earth. Geckel and Kant had a magic wand.

And this is what our heroes saw on Earth from the outside.

There was no living matter on Earth yet, but from somewhere it appeared - something the travelers to the past could not keep track of.

In the then warm ocean, which was replenished by torrential rains, the water was electrified by incessant lightning, promoting the synthesis of protein bodies which, as the planet cooled, began to modify and multiply, turning into single-celled living organisms.

Thus, from somewhere on Earth there appeared living matter in the form of unicellular organisms, which began to fight for their existence.

The strong survived and the weak died out or hid from the strong, adapting against them. So some living beings, getting into other eco-

logical conditions, changed and got fins, teeth, and gills, while others remained in the same conditions and didn't change. And all these living organisms, in the process of struggle for existence, so adapted that it was impossible to recognize them. Some organisms became plants, which were hidden in the soil, others became fish, and some organisms did not change at all, as they were at the level of viruses and bacteria and still are viruses and bacteria today. But gradually on Earth, land began to displace water, and the more enterprising fish began to adapt to land and, having lost their gills, began to breathe with their lungs. Amphibians appeared. And then came the reptiles-teeth, running, jumping, flying, climbing, crawling, hissing. Oh, there were all kinds of dinosaurs, brontosaurus, and all kinds of lizards, both herbivores and carnivores. But they couldn't outsmart nature and began to die out in the struggle for existence.

But suddenly Darwin, Haeckel, and Kant began to shake. Some kind of black veil arose between them and the Earth, and they could not see how the dinosaurs and pterodactyls died out, and from which lizards the species of animals and birds now living on Earth originated.

So our heroes decided that these extinct dinosaurs and pterodactyls were dead-end species, with whom there are no mistakes, and they made mistakes when they became these animal species when they adapted. But it's a shame that they didn't keep track of the transformation of the remaining lizards into other animal species.

And now we have to wonder who our closer relative is, the crocodile, or the extinct dinosaur.

But the black veil melted and Darwin saw the monkeys and said: "Now these monkeys will drop their tails, their fur, become intelligent and move away from their relatives."

"Why?" - Kant asked.

"Because these apes, who have become smarter, will adapt to the conditions of their environment and, in their struggle for existence,

will drive their unadapted congeners out of their habitats," Darwin replied.

True, Kant objected to the kinship of Man and the apes, but Haeckel handed Kant a telescope and said:

"Look at the ontogeny of the individual species as it briefly repeats the phylogeny of this Biological species." Haeckel called ontogenesis the process of individual development of the individual of a Biological species, and phylogenesis, the history of the evolutionary development of an animal species, whose individual, in its ontogeny, briefly repeats that phylogeny.

"This is the Biogenetic Law," said Haeckel.

And Darwin added: "All existing species on Earth are the os-taken stages of phylogeny of the most evolved animal species. The ancestors of Man were unicellular organisms, then adapted, became fishes, then crawled on land, first amphibians, then reptiles, then mammals. And to date, all species of animals evolved from one common ancestor. The divergence of one animal species into many other species is, according to Darwin, called monophyly.

Dad, and Dad - again I stopped my father - if all animals came out of the water when they became fish, why are there so many bacteria and viruses in the air and on land on Earth. Didn't the viruses know that they had to evolve into some kind of fish in the water and get out of the water like that?

"You see," said Father, "how cunning the viruses turned out to be. They waited for the fish to come out of the water and become human beings, and when humans came along, the viruses were there and began to parasitize their human relatives. But humans turned out to be clever and fought them, while viruses turned out to be more cunning and adapted. Viruses simultaneously began to appear all over the globe as one strain, and when Man began to fight against them, they all became viruses of another strain to avoid all kinds of accidents, with-



out thinking of changing as their distant relatives did in water. A strain is a type of virus."

Dad, these are fairy tales; viruses can't think how they could be cunning," I objected to my father; you'd better tell me what else Darwin, Heckel, and Kant saw in the past. Did they see mammals returning to the ocean like the cetaceans did?

"No, they couldn't see that, they even wondered why these animals changed their ecological niche twice in their phylogeny, violating the Law of Irreversibility of Evolutionary Movement," said Father.

And why can't you change your ecological niche twice? - I asked.

"Because as an ecological niche evolves, so does its endeme, whereas evolution is an irreversible process," Dad answered.

Dad, when I was in the future, did I go through my ontogenesis, too?

"Of course," Dad replied. And why didn't the stages of my ontogenesis stay and live with me, that would have been interesting for all of us together.

"The stages of ontogenesis don't diverge," objected Dad.

Then why did phylogenesis diverge, because ontogenesis is a brief repetition of phylogenesis, as you yourself said," I was puzzled.

"Ask Darwin and Heckel," my father answered me.

Dad, Darwin must have read the story of Vasilisa the Wise, who was turned into a frog by Kashchey, and then how she turned into a beautiful frog again. Otherwise, how could he have known that frogs could turn into Man.

"You see," said my father, "Darwin proceeded on the grounds that the frog and the Man are living organisms and have much in common. Think about it, if frogs are living creatures that fight for survival, reproduce, breathe, eat, adapt, have a well-developed nervous system, can communicate with each other, have a skull, a spine and five toes on each foot, and are also well developed, then you could mistake them for Humans by their description.

What's tipsy? - I asked my father again.

"It's the state Darwin had when he drank whiskey before the storm," my father answered. Do you ever have that condition? - I asked my father again. He smiled and answered, "Of course I do, especially when I'm alone with your mother.

And what stories do you tell her, about frogs too? - I asked.

"No not about frogs, I tell her that she is the most beautiful woman I have ever known," said my father. But I didn't settle down and asked the question again: "And what does your mother say to you?"

"She says to me: you rascal! How many women have you known? Don't touch me, you hypocrite!"

And where did you touch her? - I wondered.

My father couldn't stand my questions and said sternly: "Don't ask stupid questions."

I realized that one more question and my father would stop telling, and asked him to continue the story he had started.

Go on, what happened to Darwin when he returned to the ship?

"What happened was that Darwin wrote his Evolutionary Theory and twinned the ape with the Man."

That's it? I resented it.

Dad, you told me a very silly tale. If we were the heroes of that story, we would know the whole truth. How could it be that there was nothing and then out of nothing could arise a photon, matter, time and some cataclysm. Come on, bring us back from the future, and we'll tell Humans the truth about what we saw there. But it won't be a fairy tale anymore, it will be a clue to the theory of time.

## WHY THE DINOSAURS WENT EXTINCT.

Once upon a time, a long time ago, when you and I and your mother were in the future," said Dad as he told another story, "there was no Earth, no solar system, no universe. There were other solar systems and other universes then.

Other universes, were very similar to our universe. There were as many universes, solar systems, as many atoms and photons then as there are now.

And then one day one universe, losing its core, collided with another universe, which did not lose its core. And at the collision point of the universes, the star-planetary systems collided as well - because the Universe is made up of the likeness of solar systems. And at the collision point of the star-planetary systems, the semblance of our solar system, the atoms collided. And at the collision point of atoms, nuclear-free photons collided with nuclear photons, and at the collision point of photons,...

Are you trying to kill me? - I stopped my father, - better tell me what we saw when one photon collided with another photon, and they fell in love with each other, and they had a little photon, which was seen by Darwin, Heckel and Kant, when Darwin was tipsy.

"First," said the father, "Kant missed the moments of collisions of universes, star systems, atoms and photons, secondly, what a habit to stop me, and thirdly, listen further to what became of this photonchick of yours, who was born of these collisions. This photon became the great, great, great, great, great, great, ..., great-grandfather of our Universe."

And this is what we learned in the future. It turns out that planetary-type systems have their mothers and their fathers, which does not exclude progeny and probability of their evolutionary development from the photon level to the atom level, from the atom level to the solar system level, from the solar system level to the Universe level in

the process of alternation of generations. So, there was no way the Universe could have evolved from just one photon, there had to be exactly as many as there are now. But, paternally, the lineage of our Universe begins with one photon.

When our Universe was born, star systems were similarly born from their mothers and fathers. The universe began to expand.

And meanwhile, similar solar systems alternated through the generations - like our cells.

Dad, I know what happened next," I said to Dad, "We saw our solar system collide with another solar system losing its core, and those solar systems were our Earth's mom and dad.

"We saw a comet burst into the solar system and hurtle toward the Sun, and at the head of this comet was spinning an asteroid, which in the future became planet Earth, which took its place of honor in the solar system, where, besides it, many of its sisters were spinning around the Sun.

The Earth grew, transformed, and when it entered the zone of biological activity of the solar system, even allowed biological species of organisms which, beginning with unicellular organisms, underwent their evolutionary ascent, repeating in their ontogeny only the phylogeny of their species, which did not diverge from the phylogeny of other animal species. What Lamarck called "Polyphylysis."

And these animals went on to species like, dinosaurs and pterodactyls.

But along with these animals, the simplest single-celled organisms ascended in phylogenetic straight lines. There were then many varieties standing at their own stages of evolutionary development. But they did not descend from each other, because if some animals modified, their place in the pyramid of energy-food hierarchy of species was taken by those which in their phylogeny passed through similar stages. But at the time when dinosaurs and pterodactyls headed the pyramid of species' energy-food hierarchy, there was no Moon. Back then, our

Earth orbited the Sun in proud solitude, with dinosaurs roaming the Earth and pterodactyls conquering its skies.

The absence of the Moon did not prevent them from falling in love, breeding their offspring, and occupying a place in the pyramid of the energy-food hierarchy of biological species.

But fate played a cruel joke with them: one of the stars in the neighborhood of the solar system exploded, and its mass was dispersed throughout its gravitational field, becoming an analogue of the neutron. (According to the "theory of time", when a proton in an atom explodes, its mass becomes a neutron, it has no proton or electron).

But part of the mass of the no longer existing star, a comet burst into the limits of the solar system, crossing the counterwave of the Sun's gravitational field. And the collision of the two elements caused the formation of a physical body with the mass of an asteroid at the head of the comet.

One day the dinosaurs and pterodactyls saw a huge fireball approaching the Earth in the sky, and the Earth was enveloped in a mass of glittering stars with tails falling on its surface. The fires began. Hurricane winds, fanning the fire, lifted columns of boiling water to the sky from water pools. The clouds grew, merging into one black veil.

The earth was covered in darkness. Fireballs flew like huge fireflies, and lightning strikes bombed the earth. A great wall of rain fell from the sky- everything hissed, hissed, rumbled, groaned, and then hail fell in cores. The ground was covered with a crust of ice.

When the clouds cleared, in the depths of the night sky, along with a multitude of cheerfully flashing stars, the newborn Moon shone, reflecting the rays of its grandmother Sun onto the icy surface of its mother Earth; but neither dinosaurs nor pterodactyls could see this anymore-no life on Earth.

But the asteroid, born at the junction of opposites, their compromise, became the future Star, but so far the grandchild of the Sun - the Moon, which in its ontogenesis will repeat the phylogeny of the solar

systems. This is why, when the dinosaurs and pterodactyls died out, Darwin and his companions could not see anything - there was a black veil between the heroes of the tale and the Earth.

Over time, the ice on the Earth began to melt, and the Earth was covered with water, and the accumulated energy stored in the Earth's core began to escape. The great mountain building began. Islets of land rich in mineral and organic compounds began to appear, washing into the water basins and enriching the water, while wind gusts blew them away over the surface of the water and land.

Thus, islands of land, water basins, and the Earth's air cushion turned out to be the ecological niches that created their endemic species, which became the initial stages of phylogenesis of the now existing species on land, in water, and in air. Similar species evolved under similar conditions.

The islands started to merge into islands and the islands into continents, forming their own biocenoses, where the pyramids of energy-eating hierarchy of Biological species' forms were being set up.

As the Earth transformed, so did the Biocenosis.

With the influx of energy from the cosmos and its accumulation in the elements of the Earth, everything was in motion. The molecular structures were changing, new substances were appearing, and the ecological niche was changing, as well as its endemic. As similar ecological niches merged, their endemes merged into species, families and classes, forming colonies and communities.

This speciation is still going on even in human organism, which became an ecological niche for its endemes - viruses. So, even today, along with the existing species, the newly formed simplest species of Biological forms become part of the initial stages of the pyramids of the energy-eating hierarchy, replacing those that have passed to the next stage of the Evolutionary transformation of the species or have gone out of the way.

And who knows, maybe some of these newly formed protozoans will turn out to be the initial stage in the phylogenesis of a species that became a substitute for Man in the Great Pyramid of the energy-eating hierarchy of Biological species' forms.

Evolutionary form of movement is leaps and bounds; there was an atom with one electron - this is one kind of atoms, another electron appeared in the atom, became another element replacing the preceding one.

As the atom changed, so did its properties. When there was no moon, our Earth was inhabited by certain species of animals and plants; with the birth of the moon came other species.

But what will happen to the Sun, to the Earth, to the Moon, and to the solar system in general? The same thing will happen that happened to the star that created the Moon. After all, with the explosion of the star, the system did not exist.

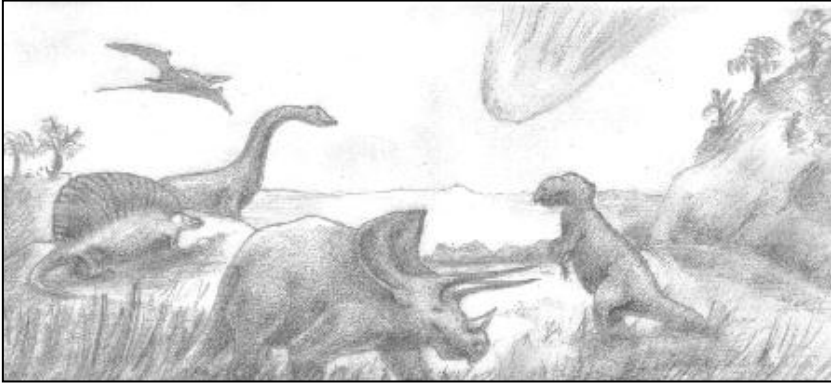
Similarly to the planets, electrons are born, which become protons, and with the explosion of their mass becomes a neutron, taking part in the generation of a new electron. And the Universe will go through all stages of its ontogenesis, briefly repeating the phylogenesis of its kind of planetary-type systems.

So, if the Earth modifies in its entirety, with its endemic species modifying as well, can one species disperse into many phylogenies while remaining at the level of its development?

For Darwin it was possible, but Man did not descend from an ape! Every kind of animal, just like every kind of atom, photon, solar system, the Universe, has its own phylogeny and its own place in the pyramid of energy-eating hierarchy of forms of biological and non-biological species!"

And all this I, along with my father, saw in the future. But when one of the animal species, which no longer exists on the Earth, changed and this new species turned out to be Man, then for some reason my father suddenly disappeared from the future and I was left

there alone. And how I came down from the future to Earth, I don't remember. My mother told me that she and my father found me in the vegetable garden, where I was sleeping in cabbage.





## A VISIT FROM TIME

### "ADAMIANI."

One summer my father and I decided to take a vacation by the Black Sea coast. We decided to go. Before we left, my mother whispered to me: "Keep an eye on my father, so that he will talk less with young aunts there."

Our train, toward evening, rolled up to some platform called "Mountain Air." On one side of the platform we could see a small village, with the mountains rising behind it, and the blue of the sea on the other side.

"Who would like to take a swim in the sea? - announced the conductor of the wagon-"We'll stay on the platform for twenty minutes until the oncoming train separates. Don't be late!"

The sea-bath lovers fell out of the cars, already ready, in their swimming trunks, and, running along the sandy beach, plunged into the warm sea water.

I want to go with them too! - I shouted.

My father, without thinking long, took our suitcase off the shelf, took me by the arms, and we were on the platform.

"We'll rest here, I like the scenery, don't you?" - Dad turned to me. I agreed.

Off the train, besides us, there were quite a few people who wanted to spend their vacation in this area.

A young lady came up to us and furtively asked: "Would you like a room?" I looked at her and, remembering my mother's request, wailed: I want to bathe, I'm not going to her house! The lady looked at me, grimaced, and quickly walked away to the others. No one else came up to us with any offers. Those who wished to rest were taken to their

apartments, and the platform was empty, while I was left alone with my father.

Having listened to yet another lecture from my father, and promising not to cross him in future, we set off for the village in the hope of finding lodging for the night. Until late at night we knocked on the door of the owners of the apartments, but we could not find a free place anywhere. I was tired and wanted to sleep. My father lifted me in his arms, and I fell asleep.

It was a moonless, warm night. My father and I were sitting by the seashore, over the blackness of which, the bottomless sky was domed, sown with merrily flashing stars. There was not a soul on the beach and only the sound of the incoming wave slapping on the sandy shore could be heard, breaking the silence.

"You see that star with the ring, that's the most mysterious planet in the solar system, Saturn," my father said. Before he could finish his sentence, the planet suddenly seemed to snap out of its seat and begin approaching Earth at breakneck speed.

"It's not Saturn," my father said, "it looks more like a flying saucer.

Silently the saucer approached the beach and hovered above us. It was no longer glowing. Suddenly a jet of daylight struck from the middle of the hovering black disk. It was the hatch of the UFO that opened.

A platform descended from the open hatch, from which athletic-looking figures in tight protective suits jumped down and surrounded us.

I remembered my father's story about aliens, and for some reason I became afraid.

"Don't be afraid," my father told me, "I'm with you.

"Do you speak a human language?" - one of the aliens asked.

"Yes," my father and I replied.

"We heard someone interested in the planet Saturn," said one of them, "So it was you.

"And who are you?" my father asked the aliens.

"We are past information," the aliens answered us.

Dad, you didn't tell me anything about the information of the past, and where they came from, because the past no longer exists," I reproached my father.

"You're right," my father replied, "but the information is not destructible.

"Follow us," said one of the aliens, "and don't be afraid of us.

Our mission on Earth is to tell you about the past of our planet Saturn. Please come to our ship, you are our guests."

Obeying the suggestion, my father and I climbed onto the lowered platform, which slowly lifted us into the hatch of the saucer.

"Welcome, Earthlings," a gentle female voice sounded as the hatch of the saucer closed behind us.

"You are in the planetarium compartment," said this gentle voice, "Please sit more comfortably in your seats and buckle up, we will take off.

And indeed, as soon as we buckled up, we felt a slight overload.

"You can unbuckle, we have entered outer space, if you wish, you can fly in zero gravity," the same voice sounded.

At the planetarium, we felt as if we had begun to fly in outer space. As we flew around, the same female voice suggested that we return to our seats.

"In front of you, dear Earthlings, is the Sun, and the planets revolve around it. One of the planets you know is Saturn."

We began to approach a planet that had no ring.

"Once upon a time, Saturn had no ring," the announcer continued, "and this planet was inhabited by our ancestors, who were like you Humans. But perpetual warfare between nations led to the creation of a space military force.

Satellites were launched, space orbital stations and various control centers were built. And one day a space war broke out.

When the war ended, in which three-quarters of the planet's population died, all the battered space equipment, complete with meteorites, formed a ring around the planet, and the natural conditions on Saturn changed. People began to die out. Basically, where the pyramids were built as refuges, that's where the people survived. And the survivors then decided to replenish their genetic balance by infusing new life. At that time the Earth was in the zone of biological activity of the solar system.

It was decided to launch an expedition to Earth in the hope of finding active donors for Saturn or to transfer the remaining population to Earth. Scientists were not wrong! There was life on Earth.

At that time on Earth, Humans were just entering the civilization arc. But the life cycle of the Earthlings was too short; the average life span of a Saturnian was five hundred Earth years, while the Earthlings died reaching thirty, forty years at best. Constant feuds and epidemics shortened their lifespan.

Where our expedition settled, the first thing to do was to erect a pyramid that could protect us from all sorts of surprises. But we Saturnians could not procreate on Earth, and the Earthlings were not suitable as donors, despite the fact that we were similar biological species. On Earth, we turned out to be sterile. Thus our fate was sealed. But ahead of us were the long three hundred years we spent on Earth. We taught the Earthlings much, who took us for messengers of the gods and worshipped us. Some tribes called us Atlanteans from Atlantis, which became Earth's south pole and was covered in ice, called Antarctica. And there once flowed rivers and blossomed gardens grown by us.

But all in good time, and many of us who survived decided to return to our home planet Saturn and die there.

Today there is no more life on Saturn. The planet is out of the biological activity zone of the solar system. The blooming cities and the

same pyramids are now buried under many kilometers of sand. Only sandstorms reign on this once-vibrant planet."

Dad, I feel sorry for the Saturnians, let's take them home with us," I whispered in my father's ear.

Dad didn't say anything back.

Dad, ask the Saturnians, who did the humans on Earth come from? I didn't get that from your story.

"You want to know who Man came from? - we heard the same gentle, mysterious voice. - We have anticipated this question and prepared a program for you.

After the dinosaurs died out on Earth, new life is born in the water, on land, and in the air. Living single-celled organisms are emerging.

At this point, I passed out.

In the morning, I woke up to a stirring. I was lying on a straw mat with my father, chickens were clucking around us, goats were bleating, and a cow was mooing in the corner. It smelled like manure. As I found out later, some woman took pity on us and let us into the barn for the night.

Fortunately, that day we found a room by the sea.

Thus began our holiday season.

During that time, we not only bathed in plenty of salt water, but also explored the entire neighborhood. We climbed the mountains, went on excursions to Sochi, rode a boat, and in the evenings we went out on the beach and listened to the waves, invisible in the dark. And in the sky, mysterious stars, among which Saturn was shining brightly, blinked merrily to me.

After resting on the Black Sea, we continued our vacation in the city of Tbilisi, where my father's parents - my grandmother Nina and grandfather Ruben lived. My mother also came to Tbilisi. In honor of her arrival, we spent the day walking around the city's landmarks, and finally took the cable car up Mtatsminda Mountain, which means "Ho-

ly Mountain," and from a bird's-eye view of the beauty of the evening city.

We returned home late at night, quite tired.

After putting me to bed, my father, as usual, sat down on my bed and, after kissing me, said quietly:

"Maybe tonight we won't tell tales, and you'll let me get some rest."

I objected, demanding at least a little story.

Dad took a deep breath and began his story.

The sun, weary from the heat of the day, was slowly rolling toward the horizon.

As it cast its parting rays, it said good night to the children and hid behind the horizon. It began to darken. The stars in the sky began to shine, and the Moon, which had come instead of the Sun, was shining in their midst. And in the morning, with the first roosters, having made an honorary circle around the Earth, the Sun shone with its old unfading beauty, before which all the stars were extinguished.

Dad, you're telling me children's stories again! - I was indignant, listening to my father's story. - Don't you know that the Earth rotates around the Sun, not the Sun around the Earth. And besides, how can the Sun get tired of the heat on Earth?

"Don't pick on the tale," my father whispered through his teeth and continued his story.

No sooner had the Sun reached its zenith than the wind blew and from somewhere, clouds began to appear in the sky, which merged into one black thundercloud that obscured the Sun. The cloud grew, and in a short time it covered the whole sky. Lightning flashed, and the rumble of running thunder rolled across the sky. All creatures had hidden themselves, and not even a chirp of a sparrow could be heard, except for the humming cloud.

The thunder-cloud had quenched the Earth with life-giving water, dissolved, and the sun shone in the sky again. It was getting late in the

afternoon, and the children, running around and getting soaked in puddles after the rain, were on their way home.

When darkness fell, all the obedient children were lying in their cribs and falling asleep sweetly. "That's it," my father said, and after kissing me, he said good night.

But there was no way around it, my whole family came running for my scream. My grandmother Nina was the first to run into the room.

When she saw my father smiling she calmed down, and sitting down on my bed asked what happened. "Daddy lied to me again," I shouted through my tears.

"Ras chadi adamiano!" - Grandma Nina reproached my father in Georgian. Not knowing the Georgian language, I demanded that my grandmother translate what she said into Russian. "I told your father: - What are you doing, Man. Man in Georgian is Adamiani, from the word Adam, the name of the first Man on Earth, according to tradition. And here, in honor of this Adam, Man is called Adam's legacy."

Grandma, tell me a story about where, how, where, and why Adam appeared on Earth.

"I can't tell scientific tales," Grandma Nina said, "it's your father who is a master at making things up, but I'll tell you the story of Adam and Eve, which I heard from my grandmother.

Once upon a time, a long time ago, when there was no sun and no earth, and it was dark and dark because there was no light, it was uninteresting and very boring.

Then one day, there were created: Light and Darkness, Sun, Earth, water, fire, dry land, and paradise on earth, and in paradise, a lot of all kinds of creatures. But this paradise lacked an intelligent Man who could keep order. So it was decided to create such an intelligent being and call him Adam.

So in paradise, on Earth, the first Man, whose name was Adam, was created. But Adam got bored on his own, and he wanted a mate. Na-

ture was merciful to him, and she created a girlfriend for him, who will be called Eve.

Babs, what is nature that created Eve for Adam? - I asked Grandma Nina. My mother intervened in the conversation, who also came running to my shout and listened to us in silence.

"The ancient Slavs," said my mother, "believed in the Oneness, which had a supernatural power that created this world, including Man. And they called this Unity Kin. Since then, the World of Everything has been called Nature, which means all that is with the Creator of it all, Rod. At least that's what I knew," Mom added toward the end and went out into the other room.

"You see," Grandma Nina said, "it turns out you and I didn't know, and now you and I already know what the word nature means.

Babs, now tell me what happened when Adam and Eve met in Paradise," I interrupted Grandma Nina.

"There were many intelligent beings like Adam and Eve created in Paradise, but they didn't know each other then, and in the future, their children and grandchildren will know each other, fall in love, and reproduce. In the meantime, Adam meets Eve, and Eve, seduced by the forbidden fruit, picks an apple in the Garden of Eden.

The forbidden fruit is too delicious, and Adam succumbs to the temptation. By eating the apple, Adam and Eve violated the lawful order of paradise, for which they are expelled from paradise once and for all.

The rest of the created beings of Adam's and Eve's likenesses, who by nature could not resist temptation, were also expelled from paradise.

And the likenesses of Adam were scattered all over the globe, and they began to live and multiply. And while in Russian this semblance is called Man, in Georgian it is called Adamiani.

And now good night chemotara Adamiani.

Bab, what is cheo patara Adamiano? I asked Grandma again.



"That's my little Man," Grandma replied, and after kissing me, she left the room.

And why did Adam's likenesses disturb the order, now we would be living in paradise, after all. And yet, what a naive grandmother Nina is, she never understood that Adam's likenesses themselves could not have been created without mothers and fathers. After all, all living things have daddies and mothers, even grandparents," I thought. But who were Adam's parents?

The next day, when my father was in a good mood, he told me about what we had learned from the Saturnians when we visited their spaceship.

## BEGUNS

Many thousands of years have passed since the dinosaurs went extinct, my father said, without Man ever appearing on Earth.

There were all kinds of animals and plants back then, and none of them looked like Man.

Then, in those early days, the equator crossed the two continents - now the southern and northern poles of the Earth, which were inhabited by many animals and birds, and the land was covered with exotic plants.

Among this multitude of animals, one species stood out, which, unlike other species, could lead both a predatory lifestyle and be an uncommon vegetarian.

These versatile vegetarian carnivores were small in stature, with well-developed lower limbs with feet that were complete, which gave them an advantage over other species of animals that lose stability when standing on their hind legs. When standing on their hind legs, they could launch their forelimbs - tearing their prey - or pluck the fruit they consumed from trees. Because these raptors were endowed with strong hind limbs ending in feet that allowed them not only to stand on their feet but also to run, they were called "runners. The bodies of runners were covered with short hair ending in a mane, which saved them from sunstroke.

But this species was not settled in an equal environment, with some families occupying forested strips, others coastal, others occupying mountain ranges, and still others leading a nomadic lifestyle. So the diet of these versatile predators included not only plants and land animals, but also fish and birds - they were brilliant swimmers, and excellent climbers.

These predators hunted together: - with their cry they caused panic among their intended victims and rushed upon an animal that had broken out of the herd, which they all pounced upon and torn apart in a

matter of seconds. Usually they would bring their torn prey to the camp, where the feast was completed at the request of the "leader. No one could touch the food without the permission of the chief, who was the head of the family. The chief kept his harem and was the sole inseminator of his wives, and each wife, in her turn, was the mistress of the family she spawned.

The unequal living conditions of these animals led to a bloody showdown. The enemy leaders were either killed or driven from their seats, and the mistresses joined the harems of the victors. Thus some families were ruined, while others were replenished and strengthened.

But the Earth, rotating around its axis and around the Sun on its lengthening radius orbit, was also exposing its unheated poles to the Sun, increasing its energy. Where the land on Earth was encrusted with ice was released, and where gardens once bloomed and rivers flowed, the Earth was covered with ice.

As ice melted along the poles as the equator shifted, and where there had been heat in the past, permafrost set in, runners had to migrate from one continent to the continents being freed from the ice. As the Earth's energy level changed and the equator shifted, the climate on the inhabited continents changed, and as the ecological niche changed, so did its endemic migrating behind the shifting equator.

And "mutants" with changed corporeality and brain structure began to appear in families of runners. Owing to changes in the structure of the brain and increase of its efficiency, the animal's range of reception of light and sound waves widens, and the animal in society of the similar ones develops a language of communication, becoming a reasoning man, who by trial and error begins to adapt his environment to himself.

So runners began to disappear on Earth as a biological species and to be replaced by a new biological species produced by them - the reasoning animal, which would later be called primitive man.

And this primitive Man on the new continent, where animals of different species migrated and from many other unstable places, meets a

similar, but with a different color of skin, eyes and hair Man, who passed his phylogeny in similar environmental conditions on different continents. And it turned out that in the Phylogeny of Man - there is no Monkey stage. When the Earth was inhabited by Runners, there were no apes on Earth at that time. The ancestors of apes were neither apes nor runners.

The ape ecological niche evolved in parallel with the human ecological niche. Accordingly, the phylogenesis of apes and Man, as well as all animal species inhabiting our Earth today, followed parallel paths.

Dad, why did these continents of the Earth, now covered with ice at the North and South Poles, turn out to be ecological niches of runners of the same species? After all, these continents were divorced from each other," I asked my father.

"First of all, these continents were crossed by the same equator; second, are humans all the same?" - Dad replied.

"What do you think," my father asked me, "if you pour hydrochloric acid and lye in equal proportions, under equal temperature and other conditions, into equal glass vessels in both Europe and America, what do you think will happen? You don't know it yet, but scientifically, the new substance that will turn out in both Europe and America is salt and water.

But there is no absolute equality, so at least in something these substances will differ from each other, one atom can solve this outcome of the difference. The substances that will be obtained, we will call similar and say that similar substances are synthesized in similar environmental conditions.

And why did the mutants appear at the Beguns? - I asked my father.

"The scientists, wanted to get absolutely pure water, where only hydrogen and oxygen elements could be present. But after obtaining such a pure substance, suddenly the element "deuterium" is found in it. An exhaustive answer to this could not be found.

Imagine such an atom as the hydrogen element - H. It is one proton and one electron rotating around the proton. You can also imagine the oxygen element, O, which is an atom with one proton and sixteen electrons total equivalent to the charge of the proton, the nucleus of the element.

Try to imagine a solar system with planets orbiting around the Sun. The Sun is analogous to a proton, and the planets rotating around it are electrons. The Sun holds nine independent electron planets known to us in the solar system, which in turn hold from one, and more satellite planets, little electrons. So while the solar system is an atom, the Sun is a proton, the planets are electrons that turn out to be protons for their satellites. There is one electron planet revolving around the Earth, which is the planet Moon. Around the planet Mars revolves two satellites, and around Jupiter and Saturn revolve many electron satellites, similar to the Moon.

Scientists have found unknown particles in the atom, different from electrons, which have been called "quarks," the smallest constituent particles of the atom. You and I, on the other hand, find a use for these mathematical units and assign the "quark" as the field element of the electron in the atom. But, it turns out that the atom can also have asteroid analogs.

So, we were able to model speculatively, using the example of our solar system, the atom is a spacetime formation with a nucleus-proton, around which the daughter spacetime formations revolve, with a nucleus called an electron. But these daughter spacetime formations (dimensions) with an electron nucleus, can represent a planetary system if electron satellites revolve around electrons, like the Moon revolves around the Earth.

It turns out that the more massive the electron planet, the more electron satellites it can hold in its system, like the Sun-proton. So in relation to the Solar System, we have presented many planetary systems that are daughter systems in relation to the Solar System, while the So-

lar System turns out to be the mother system for them. This suggests that the Solar System was once a daughter system in the solar system that no longer exists as the parent Solar System

Dad, if the Sun was once a planet like the Earth, then the Sun could have the same life as the Earth.

Hooray!" I shouted excitedly, pleased with my discovery.

My father smiled and said: "Well, of course there could have been life on the Sun, for the Sun was once, as a planet, in a zone of biological activity with respect to its parent system, which no longer exists."

"Most importantly, Dad said, we were able to use the example of our solar system to present and planetary model of the atom, which was once presented by Bohr and Rutherford, they were such scientists."

Dad, where did that star that was the Sun in the mother- rinian for our solar system disappear to, which no longer exists? - I asked my dad.

"That star exploded, and its mass dispersed through its gravitational field, after its daughter (star-planetary systems) left, one of which, happens to be our solar system.

It turns out that when a star radiates, it releases elementary particles from its surface. Imagine an atom as it divides into a mother chamber and a daughter chamber.

When atoms divide, there is a force with which the mother chamber pushes away from the daughter chamber. Then the mother chamber redistributes to one side and the daughter chamber to the opposite. Now, imagine the surface of the Sun with elementary particles flying away from it centrifugally in the direction of least resistance, which generates in the fission of atoms and a centripetal force, with which the mother chambers shift toward the center of the Sun.

This means that there is a constant build-up of intra-nuclear pressure on the Sun, which eventually leads to the explosion of the Sun itself, after the daughter systems are separated from the solar system

and rarefaction occurs. Then the entire mass of the Sun-star fills this rarefaction, distributing throughout its gravitational field, which becomes the neutron stage, deprived of both the proton-star nucleus and the planet-electrons. Now you understand why there is no neutron in the atom.

What role the neutron plays, we considered this question in the story "Why the dinosaurs died out," so we won't talk about the mass of a collapsed star for now, but will move on to the question of why "mutants" appear. - All right," Father said.

"So," Father continued, "when two chambers are formed in the parent system, one of which is a chamber with a proton-star - which we will call a 'cation,' and the other with an electron-planet - which we will call an anion, the electron no longer takes 'food' from the weakened proton-star. It already receives this food from other atoms of "cations" - (star-planet systems), and, completing its growth, itself becomes a star-proton stage.

Equals are repelled from each other, and the mother cell diverges from the daughter system, repeating the path of its mother system. And when we talk about equalities, it means that if we represent the division of the hydrogen element H, the daughter system turns out to be a hydrogen element as well. And an element is the smallest particle of a molecule.

The molecule, on the other hand, is the smallest particle of matter, which could be the gene in the germ cell of the Runner ancestor of Man.

So, if a molecule of matter had a mother system, then with the disintegration of the mother system its place in the molecule is taken by the daughter system, and the substance does not change. But as the Earth grows, the energy levels on the Earth change, so do the energy-eating relationships between the elements, and the elements themselves change as they alternate through the generations. If in a molecule of matter there was a hydrogen element, then with the energy coming to

the Earth from outside there is allowed the growth of the electron of this element, which with the transition to the proton stage can hold not one, but two electrons - of course, with the collision with the neutron of its similarity.

Let's assume that in the molecule of matter responsible for some "gene" of the Runner, there was involved a hydrogen element with one proton with one electron with one companion.

But as the medium changes, the electron reaches such a size that it can intercept without damage the similar comet with an asteroid in its head, which was created when the neutron collided with the hydrogen element.

And the asteroid, increasing in size, becomes a companion of the electron, like the Moon for the Earth. This is how the hydrogen element appears, and if the electrons get more electron companions like deuterium, then the "mutant" elements appear in the gene molecule of individuals of the biological species, which the Runners were, both female and male, at the moment of their mating.

With the appearance of mutant elements in the gene molecules of mating individuals of the same species, a different "mutant" from the parents is generated. Mutant elements enter into an energy-eating relationship with equivalent elements, which changes the structure and composition of the gene molecule of matter.

New gene, new and traits of the born generation Runner, which turned out to be "mutant" Adam, or the first Man on Earth.

But on the globe, along the equator, the ecological niche for all Beguns changes similarly, and accordingly, where they inhabited, similar mutants appear, with different color of eyes, hair, skin, etc., while Beguns as a species become extinct. But these mutants, as they migrate, begin to fall in love, like Adam and Eve, and the Species stabilizes.

As you can see, evolution is not a special case, but a consequence of the One Process. And the interesting thing is that it's a leapfrog process.



Dad, why is the equator shifting? - I asked my father.

The equator is displaced because the Sun feeds the Earth, and the food that follows in the form of elementary particles-photons is distributed along the equator rather than along the poles. And the atoms that make up the equator of the Earth grow at a greater rate, and when such atoms fission, the mother and daughter cells are redistributed in the direction of least resistance. And the direction toward the Sun and the center of the Earth are the greatest resistances. So there is an angular force that rotates the Earth both around its axis and around the Sun, shifting the equator along the way."

Dad, when mutant children grew up in the community and understood a common language, becoming talkative, did they also hunt like animals? - I interrupted my father, and turned the conversation to something that interested me, since I didn't understand much about cameras and angular forces. "Well, of course," my father replied, "because they have become talking, they have not lost their animal instincts.

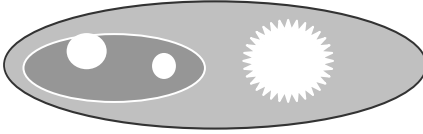
The most interesting thing is that they, by becoming social animals, gained mighty power. They already defended themselves and hunted together, using all kinds of tricks. They would take the skins off wild animals and put them on themselves. And then, if these skins brought them luck, they wore them as clothes.

That's enough, you will grow up and find out for yourself, and now, good night.

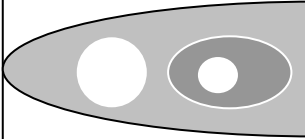
I did not object, as I was tired and wanted to sleep.

## METAMORPHOSES

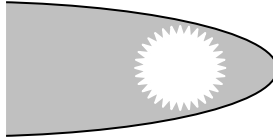
### ONTOGENESIS STAGES OF THE PLANETARY TYPE SYSTEM



MATURE ELEMENT HYDROGEN - STABILIZATION STAGE"  
DECOMPOSITION OF THE SYSTEM INTO CAMERAS



*DAUGHTER CHAMBER*  
*ANION*



*MOTHER CHAMBER*  
*CATION*



*"BLACK HOLE"*  
*NEUTRON*

## FANTASY

In a certain kingdom, in a large state, there lived a thinker, unknown to any of the scientists.

Dad, who are you telling me the story about, yourself, me, or another thinker? - I interrogated my father.

"As you wish," my father replied, barely able to contain his smile.

So, today that thinker will be me! Tell me about it! - I demanded.

"I agree," my father replied, and continued his story.

"At the time when this thinker began to think, they did not yet know why the total balance of the form elements of the blood and its volume was maintained in the human body. Nor was there a coherent model of the physiological mechanism regulating blood flow.

At that time the preservation of the constancy of blood composition in the Human body and its regulation was called "homeostasis". Some said it was the nature of living matter, others looked for mechanisms regulating blood flow in the body.

But to imagine a model of this mechanism regulating blood flow, it was necessary to know not only about blood vessels, such as arteries and veins, it was necessary to know about the mechanism of blood origin, including its form elements: red blood cells, white blood cells, lymphocytes and other elements.

We know that the animal and human organs, including blood vessels, are composed of tissue elements, commonly called cells, which differ from each other by their structure. And despite the differences between the tissue cells, all of them can reproduce, feed, and perform their functions in the community of their kind. But as for the blood-forming elements, they remain beyond imagination when performing their functions in the human body.

Dad," I stopped my father, "are you telling me a fairy tale about blood-form elements or about a thinker. Tell me more about the thinker. "I'm listening! About the thinker, so about the thinker."

Well, this thinker lived a modest life. He didn't have time for a personal life because he was always thinking. And when he realized that he was an integral "part" of the Earth, synthesizing a substance from "cosmic dust, so-called information" coming from space, he began to see and think differently than his contemporaries.

Thinker, understood that he is one of the "switches" of the Earth, whose activity preserves the Earth. Activity is "energy" carried out by Earth's commutators.

It turns out that even one elementary particle that receives information from the cosmos is an Earth commutator.

One day, when the thinker was falling asleep after a lot of thinking, suddenly a Fairy appeared before him.

The room where the thinker slept became bright, as the "Fairy" radiated a gentle light. Her slender figure struck the thinker's imagination. She was a naked truth, more beautiful than anyone else. It is almost impossible to describe this feminine beauty.

So the thinker, without going into detail about the folds of gorgeous tenderness, confusedly asked the Fairy, "Who are you?"

"I am your fantasy," said the vision softly.

The thinker tried to touch the fantasy, but it pulled away. "Don't try to touch me, or I'll disappear and won't be able to help you in your search. Better follow me," she said, drawing the thinker into the abyss of the starry sky.

"We are moving into another time dimension, where these stars, including the Sun, move into the nuclei of the elements that make up the molecular structures of matter at the level of the universe," the fantasy said. "Don't be surprised," she added, "if you see not a collection of star-planetary systems, but molecules coming to life. Our time is slowing down, and all the processes in the cosmos will accelerate accordingly."

Indeed, the stars became the nuclei of the elements of the molecular structures of the universe, and the molecules were folded into sub-

stances. Everything was in motion. Molecules began to move, joining some molecules, diverging from others. Some elements of molecules were divided into a mother chamber (cation) and a daughter chamber (anion), which, diverging, redistributed into opposite molecules.

Some molecules were destroyed, others were synthesized.

The molecules renewed by the daughter chambers replaced in the substance the molecules folded from the mother chambers, which left the substance. Basically, the daughter chambers were redistributed to molecules where they received nutrition and where there could be neutrons, and the mother chambers were redistributed to those elements that had a need for them-going to the neutron stage.

"Without love there is no life," said fantasy, "opposites reach for each other and equals diverge because some are sources of information and others are consumers of it.

The elements quantize each other, and through them the molecules quantize each other. We are in the nucleus of the tissue cell of the organism of your likeness of another time dimension, the level of the Universe," fantasy explained to the thinker, "Look carefully. See the molecule with which one of the chambers of the disintegrating element is diverging. Now this chamber will be displaced from the cell nucleus".

One of the elements of the molecule split into a daughter chamber and a mother chamber - into two elements - an anion and a cation, the daughter (anion) remained in the molecule, while the mother (cation) joined with another molecule, which ended up outside the cell nucleus.

"This molecule that joined the ejector is called transport RNA, which, changed by the ejector, finds other partners and shifts. Now watch as this RNA breaks down into elements that attach to elements of other molecules.

These other molecules ended up outside the cell, the cell dissimilated the spent metabolite substance in the direction of least resistance, the vein. In the vein, the pressure is lower than in the arteries; in sim-

ple language, it's a gradient. And in sophisticated language, it's the medium quantitating with the metabolite.

That's okay, the RNA is synthesized again in the cell when that cell assimilates the substance brought in from the artery and the products of the cell itself. In the meantime, we went out into the vein, and our way will lie through the heart of this creature," said the fantasy.

The thinker felt the molecules begin to shrink, and he began to see the form elements of the blood. "We have passed into another time dimension," said the fantasy, "we are at the level of the tissue cells of the body and the form elements of the blood. And suddenly the thinker began to hear sounds: "I want to eat, I want to drink, I don't like this, I won't eat this, don't interfere, oh, how I want to be a mother, oh, how I want to be a father, chase him away, catch him, this is my place, I am tired, what do you allow yourself, get out of here, I will come back". These were the words of tissue cells and blood cells expelled into the veins by tissue cells.

Leukocytes swam past the travelers, chasing some bacteria.

They surrounded them and began to eat them.

The erythrocytes were moving peacefully in the venous stream. Following the erythrocytes, our travelers entered the atrium, bypassed the small circle of circulation, through the lungs and were pushed with great force by the heart into the artery of the great circle.

Just then one could hear the tissue cells greedily absorbing the substances brought by the arterial blood and, the pressure in the arteries began to drop. "More to eat," the tissue cells squeaked, "we ate everything," they yelled. There was turbulence in the vessel as the cells sucked up the fluid flowing in the vessels.

One of the tissue cells, seeing one red blood cell, squealed with joy. - "Come to me," she called to it.

The erythrocyte and the tissue cell fell in love with each other.

The erythrocyte melted, and the cell began to divide into a mother cell and a daughter cell.

The daughter cell remained in the tissue instead of the mother cell, and the mother cell, having lost its nucleus, went out into the vein and became a red blood cell.

It turns out that leukocytes, lymphocytes, and other form elements entering the blood vessels fall in love in a similar way. But each kind of form element falls in love only with the tissue cell that makes up the tissue where these elements are generated.

Dad," I stopped my father, "will these travelers ever leave this organism or not, and if they do, where will they come out of?"

They'll end up in the toilet, that'll be funny.

"You're right," Dad said, "they're going into the toilet."

But when they got to the toilet, they went to another time dimension and, back to Earth again, where rivers flow, gardens are green, and volcanic lava rises from the depths of the Earth's core. For the Earth, in turn, breathes and is renewed.

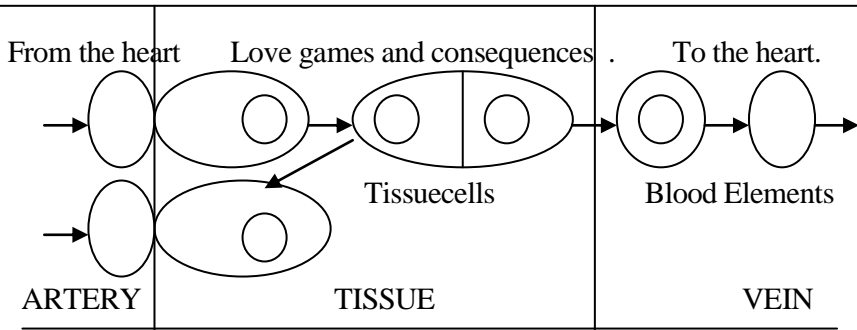
When the excitement of the Sun excites the Earth's ionosphere, newly created hydrogen elements penetrate into the upper layers of the Earth's atmosphere, which quantize with the Earth's free commutator elements (oxygen) and form water molecules.

But water molecules are not yet water. The commonality of these molecules, which are not bound together into matter, form clouds in the Earth's atmosphere. The clouds thicken and then precipitate on the Earth in the form of rain. Water, on the other hand, as matter, is consumed in the synthesis of new substances on Earth, etc.

And so, our thinker was back in his room. And when he wanted to touch Fantasia, Fantasia disappeared.

Then, our thinker rolled over onto his other side and, wishing us good night, fell sweetly asleep.

### ON THE ROUTE OF THE THINKER'S TOUR





## THE EMPTINESS

Often when I was alone with myself and mentally entered my father's fairy world, I communicated with Saturnians, tamed dinosaurs, transformed a dog chasing my cat into a frog or a cockroach, and finally, together with the beautiful "Fairy," drifted away into my childhood fantasy world.

One evening, before going to bed, I remembered my neighbor and asked my father to tell me another tale about how one dreamer had turned his dog into a little mouse that our cat had eaten.

"What turned you against the neighbor's dog?" - Barely holding back a smile, my father asked. It was the neighbor's fault, walking his dog this morning, he spit in my direction and said his dog would eat my cat," I answered with a pout. The neighbor was my age.

"Why should we turn the dog into a mouse, we'd better turn our cat into a Man," my father said. - Man in fairy tales," he continued, "has already been turned into a fly, a monkey, a dog, and vice versa, but no one has yet turned a cat into a Man.

Without much hesitation, I agreed with my father and said, "Today we will listen to the tale of how one day a dreamer turned a cat into a Man.

"Before turning a cat into a Man, the dreamer must first imagine the substance of the material from which the 'world of everything' is created and through that substance conduct his fabulously speculative experiments," said my father, beginning his story.

"In the universe, there is a planet called Earth, which from the constellation of Aquarius is not visible - that's how tiny it is. But if you get close to it, and look at it from the planet Saturn, which, like Earth, revolves around the Sun, you can see a mysterious star in the sky of Saturn. This mysterious star, which changes its brilliance seasonally, is located between two stars. One of the stars, which is closer to the Sun, is the planet Venus, the other, which is closer to Saturn, is the

planet Mars, and the middle one, as we have already guessed, is the planet Earth.

Rumor has it that the planet Venus - was named after the goddess of love; the planet Mars, after the god of war, and the planet Earth - was named after its fertile and life-giving soil - which peasants simply called cultivated "earth". True, no one has yet seen these gods after whom the planets were named, but the fact that planet Earth burned in warriors and blossomed in love suggests that Earth was influenced by these of its controversial neighbors.

We will not go into the details of who influences whom, but simply, let us go down to this mysterious planet and look at its inhabitants who call themselves "Humans". It is said that some of them can even reason.

And here we are on Earth.

There are all kinds of Humans on this planet, all kinds of tribes with different faiths.

"They say there is even such a tribe," said Father, "a people who worship the 'Void'.

"Great Void," says the people of this tribe, "we your children appeal to you: 'Be merciful to us and with your power protect our tribe from perdition.

The people of this tribe, believe that the "Void" is primary and the "Everything" in the World from this "Everything" is secondary.

"Everything," says this people, "is created by the Great Void.

What "Void" means is that there is something, and in the integrity of that "something" there is nothing.

This tribe was once visited by a "dreamer" who had the idea of turning a cat into a Man, but didn't know how to do it yet.

Sharing his plans with the people of the tribe, he heard that in reality it cannot be done, because the form of the cat, of its plot, was created by the Great Void, locking it into its own "I", and at the wish of the "dreamer" created by it, will never allow such transformations.

Dad, if there's nothing in the Void, how could it create all the people in itself, including the "dreamer"? - I was indignant and added, "Don't make people laugh!

Don't jump to conclusions," said my father, "and listen.

It turns out that the "Void" is a figurative temporal plume that stretches behind the eternally flattened into the sphere of reality that excludes between the past and future temporal continuity of eternity even a spatial gap, reducing matter to zero. And this temporal loop, expanding, is constantly replenished by new and new sections, which are not limited from each other by anything, as there is no matter limiting them from each other.

In turn, areas of the "Void," are also endowed with areas. And the plots can be of different shapes, it all depends on which of them will be aroused by the dispute between them, when they will be aroused by the new ones - generated by their expansion.

One day, these combined plots in plots, began to determine the relationship between them, - which part of the "Void" is most important for its integrity. "I am the most important section," exclaimed the smallest section. - Without me, there would be no big plots to which I belong, there would be no integrity of the Void."

"If it weren't for me," exclaimed the middle plot, "there would be no you, my little plot, no big plots and the very integrity of the Void.

A third section of the Void intervened in the conversation from nowhere. "If there were no me," he said, "there would be no you little plot, no you middle plot to which this little plot belongs, there would be no integrity of the Void.

"That's why we wouldn't be there," the combined one-in-one precincts shouted. "Because your little plot," said the third to the middle plot, "is one of my plots, my 'quantum,' and my other plots do not belong to you-they belong to plots outside of you, which without these my plots, like you, would not be."

"So," said the little precinct, "without me there would not be this third precinct either. - "I," the little plot squeaked, turning to the disputants, "am a common plot to you--a quantum and one plot, a quantum and another plot.

It turns out that the "quantum" is a common part of the wholes interconnected by this part.

And there was such a mess between the arguers that each section of the Void's integrity, turned out to be a quantum of an infinite set of medium and large sections, interconnected by these common sections.

A small section of a large section turns out to be a quantum only when this small section is claimed by large sections of the Integrity of the Void that are connected to each other by this small section.

Oh, what was going on in this Void, everything was mixed up, what belonged to what, how and why, nothing was clear.

"This is 'chaos,'" the Void boomed, and expanding began to bring order to its integrity.

The Law of Inverse Relationship states that "if there were no integrity of the Void, there would be no parts of that integrity, and if there were no parts of that integrity, there would be no parts of that integrity.

The Void knew the Law of Feedback and, therefore, it did not punish its segments for the havoc they wreaked on its integrity, but only addressed each of its segments with a personally born remnant of its integrity when expanding. And these remnants of the integrity of the Void, confined themselves to the disputing areas, individualizing them.

At this, around each individual section of the Void opens its own "corridor" of temporal continuity, limiting this closed by its "I" section, and corridors of some sections coincide. And then, around each plot of the Void, bounded by personal circulation of its integrity, concentric spheres are erected with differences of combined plots in the plot, whose corridors coincide. It turns out that in the corridor of time, where the hierarchy of relations to the Integrity of the Void is estab-

lished, the differences of combined plots of the Void do not intersect, which - excludes chaos and allows for order.

"That part of the Integrity of the Void which limits its small part and does not refer to the limitedness by any of its parts, we called the residue, or the difference between the combined inequalities, which figuratively takes the meaning of the corridor of space-time continuity in the Void" - explained my father and continued the story.

"But, around each section of the expanding Void are erected differences of combined sections, which overlap with the differences erected around other sections. For the integrity of the Void is one, and all sections of the Void belong to its integrity."

Dad, enough! - I couldn't stand my father's story and stopped him. - I know how your order will end, all differences will cross and points of their intersections will appear, and they will find their relations among themselves and the order will be broken again. You already told about it in the last tale, better tell me why everything is different in the world, whether a crocodile is like a monkey, or a photon is like a Man. And in your emptiness all parts of its integrity are empty and the same

Father smiled and said, - "The people of that tribe believe that it is impossible to limit the emptiness in emptiness, a section of emptiness can combine infinitely many unlike each other - sections including forms: photons, atoms, blood and tissue body cells, fish, frogs, crocodiles, giraffes, hippos, parrots, monkeys, and even the Man. Everything will depend on - what form of the Void will be excited by the differences, and will lock into its "I" limited to the personal address of the "Void," - such form will centralize the relationship to the integrity of the Void. It's not just the people of that tribe that ask the Void to preserve them".

I don't like such a tale," I complained to my father, "You'd better tell me what the dreamer did when he came home and started dreaming about cats.

"When the dreamer came home, he already knew whether or not it was possible to excite the Void from the form of a cat the form of a Man. He realized that the form of the Void plot could never be replaced by another form.

But a section of the Void, whatever its form, is a quantum or personal section of a section of a similar or different form that can be excited."

Dad, why did you have to tell me the tale of the Void because you couldn't tell me the tale of transformation? - I turned to my father resentfully, barely able to hold back my tears.

My father took pity on me then and told me the story of the dreamer who turned a cat into a woman who gave birth to nine kittens from a cat, which the dreamer also turned into a Man.

In the morning, as my father was leaving for work, I called him over to me and asked in a whisper: Dad, do you think you and I are quanta of the same parts of the void or different parts? You know, I think Mom is a quantum of a totally different area. "What makes you think that?" - Dad asked with feigned seriousness.

She's a woman and we're men, got it!" I answered my father in the same whisper, no matter what my mother would hear me say.

"I need to think" - said my father and after a short pause added - "I think you are right somewhere, nevertheless, we are all parts of the same void, even if we are quanta of different parts of it. I'm late, I'll talk to you tonight, okay.

Wait!" I stopped my father and asked a second question: "Dad, do you think my brain is also a void that excites its parts in my dreams when I'm asleep?

"If there's something in your head to get excited about, then your brain isn't a void," Dad answered and, after kissing me, jumped out of the room.

Left to myself, I took a long time to feel myself, the blanket, the pillow, the wall, and came to the conclusion that there was no emptiness.

And if there was, there would be sections of it that were identical in shape to mine, Mom's, Dad's, and even Grandma's and Grandpa's. It's quite possible, I thought, that my doubles are nearby, and I can't see them because they're not aroused.

It didn't take long for me to jump out of bed and go to the mirror and carefully examine my reflection, which repeated all my movements with the opposite polarity.

It's not me, it's the horny part of my form," I shouted loudly and called out to my mother.

"I forbid your father to tell you stupid stories, you understand!" - Mom said, yanking me away from the mirror.

In the evening, Mom and Dad had a serious conversation. Since that evening, my mother read me Russian folk tales, as well as fairy tales by famous foreign writers.

But it was time for summer vacation, which I spent with my father on the shore of the Black Sea, where no one controlled us.

Everywhere we were in my father's stories. We visited time, where we met Saturnians who gave us an excursion into the corridor of that time, where on different electrons we met our doubles standing at different stages of our ontogenesis. We even visited our doubles living on different planets of the Universe, with a difference of several hours.

So on one planet, we got to our own, Moscow apartment, where my mother's doppelganger met us and asked with surprise, "You, in fact, flew away to the sea this morning and called that you were settled there". When we told her we were from another universe, she gave us such a scandal that we had to agree with her and tell her we missed the plane.

After calming down, my mother's doppelganger said to me, "You see where your father's silly stories lead to.

And what happened on the other planets, where we encountered both our childhood and old age and doppelgangers of our age - it was a

laugh-out-loud experience. We were even beaten and dragged through the police for our doppelgangers.

But the Saturnians came to our aid in time.

Of course, there was a lot of water in my father's stories, but some of his tales and stories, including the tale of "The Void," formed the basis of his "Theory of Time."

"The Void," denied in reality, turned out to be a figurative representation of the "tunnel of time" the breadth of which we transcended in my father's stories.

As my father later told me - "Without the figurative Void, the excitable parts of it and the becoming differences between them, it would be difficult for me to imagine not only the corridor and the tunnel of time with the information spinning in it, but reality itself."

"The principle of becoming forms of matter (differences) into cause-and-effect stages of motion is unified and naively simple," Father told me.



## A STORY ABOUT A ROOSTER

One day, I asked my father to tell me a story about animals. After stroking his mustache and sitting back, my father began his story.

"In Georgia, on the bank of the Kura River, there is a village called Kvahvreli, where I spent my summer vacations with my brother, Victor. At that time I was fourteen years old, and my brother was twelve.

I, with great interest watched the animals in the village.

My aunt Varya, who we were visiting, told me: "One of these days the hen house is expecting new hens, two hens are in line, when you watch them, be careful, the hen may peck in the eye".

That day in the coop was noisy, the voices of hens and roosters added to the voices of hatched chicks. With businesslike clucking, the hen led her brood and did not let anyone near it.

Watching the brood for hours, I noticed one chick that differed from the others in coloring and behavior. He always tried to sit on the head of the hen when she was pushing the others under her while she was resting.

This chicken, I called "Petya" at the time.

So, I begin the story of "Petya" from the moment he hatched from the egg.

"What a misunderstanding, I want to straighten up, and I can't even turn my head," thought Petya, chained in the egg. Petya jerked his head, and it was welded to the shell with the tip of his beak.

Using all his strength, Petya desperately bent his neck and the shell, in the place where the tip of his beak was welded, cracked.

Having torn from the shell a splinter welded to his beak, Petya sucked in the air from the small hole and strained. The shell split apart at the formed seam and released Petya.

Feeling tired, Petya wanted to rest, but the shell pieces prevented him, and then Petya squeaked in despair. The little hen heard the squeak of a new chicken and pulled the shards out from under her with

her beak. With the birth of Petya, another amazing chicken was added to the family of chickens.

Staying under his mother, Petya didn't want to think about anything, he was warm and cozy there. He only squeaked occasionally, just in case.

In the morning, the little hen brought her brood out into the yard. Together with these chickens was Petya, who was the first to pounce out of the henhouse and rush around the yard. "I haven't seen anything like this yet, how beautiful and good it is," thought Petya. But when he got a smack from the neighbor's rooster, he squeaked in despair. Fortunately, the mother bird arrived and drove away the cockerel, who will meet Petya more than once and will try to avoid him.

Petya remembers this neighbor, and his first day of freedom. Meanwhile, Petya builds relationships with his peers, becoming their sole leader. No one higher than Petya had a right to climb on the mother bird. Petya didn't like to climb under his mother and always tried to sit on her back - he couldn't do it on his head, he would slip away.

Days passed, and the chickens grew up before her eyes. Peter also grew up, instead of the gun, he had plumage, which distinguished him from all the chickens in the coop and the adult hens. The white color of his feathers alternating with black feathers gave him the appearance of a mottled hen.

One evening, entering the coop, Petya saw his first offender sitting on the topmost pole.

"That's no good," thought Petya, and jumping up on the pole, with a blow of his beak he stunned the impostor and pushed him off the pole. Since then, Petya has taken the place of honor. All the youngsters in the bird's yard began to acknowledge his leadership.

And then one day, Aunt Vary's neighbors complained to her that her cockerel, Petya, often looked into their poultry yard and pecked young roosters, causing panic and disorder in their coops.

Of course, there were adult roosters in the coops, but when they chased Petya, Petya eluded them, chasing in turn the young ones. So there was a mess in these coops where Petya went in, everyone chasing each other.

"And the coloring is wrong, and the rooster himself is some abnormal, we'll have to slaughter him," said Aunt Varya one day and asked us to help catch him. Vitya, Aunt Varya's son Zuriko, Aunt Varya and my mother Nina, who joined them, chased Peter for a long time, but could not catch him. When they surrounded him and Petya had nowhere to go, he jumped into my arms and stuck his head under my arms.

Petya's behavior surprised everyone and saved the indomitable cockerel.

Aunt Varya then decided to give me Petya, whom I took to the city after the summer vacation.

When we came home, the first thing we did was to solve the problem of Petya's stay. We decided to leave him in our room.

After sitting Petya on the floor in the room, Petya shook himself and, looking around, his eyes stopped at the window. Then, staggering around, he jumped up on the window sill and started banging on the glass. To avoid injury, I grabbed Petya and pressed his wings tightly. When Petya calmed down, we tied a piece of wood to the rooster's leg. On the window sill Petya was no longer able to jump up. In vain Peter tried to get rid of his burden, the rope was firmly tied to his leg. For the night we put Petya on the crossbar between two stools, away from the window, and put paper under him.

With time Petya got used to his new living conditions and was able to walk around the room rattling the stick tied to his leg.

When Petya grew stronger and more sensitively, the stick was no longer weighty for him, and he could easily jump with it on the window sill. But he was no longer banging against the glass, but carefully observing what was going on outside the window. When he saw me

coming from school, Petya would jump off the window sill and walk to the door.

When I came in, Petya would walk across the room with me, cooing as if he were having a conversation: - "Well, what did you bring me this time, don't drag it out, go ahead and fill it up, and in general, aren't you tired of the clanking of this stick, untie it and set me free. At the same time Petya was rubbing the rope with his beak.

One morning, when Petya cackled and clapped his crickets in an established voice, I woke up and did not see the rope on his leg, it was untied. Since then Petya had been walking without a load. In the morning he would wake us all up, and when we sat down at the table, he would without ceremony jump on my shoulder first, and if he saw anything edible, he would go over to the table and stick his beak into all the plates. When he was driven off the table, he would assume a fighting posture. In all his actions, Petya emphasized who was the boss in the house - however, he listened to me and reluctantly obeyed my demands.

When guests came to us, we used to tie Petya to the leg of a vacant chair, because he would behave himself unceremoniously on the table and threaten the guest with his aggressive attacks, assuming a fighting posture.

We were afraid to let him out alone on the balcony or into the yard. We usually had him tied up on the balcony, keeping an eye on him - stray cats would sometimes look out on the balcony.

One day, our father Reuben, in time for the New Year's holiday, brought a young turkey, which was much heavier and taller than Petya. When Petya saw the uninvited guest, he pecked it so that we had to slaughter the bloody and unconscious turkey before the holiday, otherwise it might die and not be fit for consumption.

Without a trace, autumn flew by, winter passed and spring came. During this time, having merged into our family, Petya went from a young rooster to a slender and mighty rooster. And one day, when he

was tied up on the balcony and we let our guard down, we heard a cat howl. When we ran out of the room, we saw Petya sitting on the cat's back and pecking it in the eye with his powerful beak. Since then we never tied Petya up again and could easily leave him unattended. Cats were afraid to pass by Petya on our balcony, if they had to pass, they would bypass him and, with a horrible howl and snort, would scurry away. At the same time, Petya would chase them away, escorting them to the stairs or the nearest roof.

When the heat set in and the rooms began to air out, Petya would be out in the morning and only come home in the evening. We no longer kept an eye on Petya, knowing that he could take care of himself.

Once, Petya came home without a tail. But about that later, for now Petya, being a free bird, was getting to know the world around him.

Walking around the long balcony, Petya suddenly felt some sort of attraction to the unknown. He walked to the stairs that led to the courtyard, and began to descend slowly down the steps.

Once in the yard, Petya cautiously looked around and saw a hen digging in the ground near a tree. This hen was a favorite of my cousins Nora and Flora, who lived on the first floor below us. They called the hen "Lapin-ka."

Suddenly, Petya was seized by some unfamiliar feeling, he began to hear his heartbeat and a gentle rush of blood clouded his consciousness. The feeling began to turn into a desire, but a desire for what, Petya could not understand. And then, mustering up the courage, Petya came out of his stupor and moved towards Lapinka. But the hen, not paying any attention to the rooster, continued to rummage in the ground, raising its short tail high. Then Petya felt one of his wings drop to the ground and began to beat convulsively on his leg, which Petya could not bend.

Having done in such a pose an honorable circle around Lapinka, Petya, chose a beautiful pebble, and put it by Lapinka's headboard. But Lapinka stood up and walked away, showing the suitor his raised

tail. Petenka caught up with her, and, . It was the first wedding day for both Petya and Lapinka. Now Petya already knew the feeling that overwhelmed him when he met his soulmate.

But Petya turned out to be too demanding a husband for his young, inexperienced wife, who always tried to avoid meeting him.

Getting into Lapinka's position, Nora and Flora would take her home when Petya went down to the yard, for they were afraid to drive Petya away. But sometimes they didn't have time to take Lapinka away, and then I came to help them. But while I once went down to the yard during another showdown, my grandmother Maria herself decided to chase away the rooster from the hen. And then the furious rooster, offended by my grandmother's behavior, jumped up on her and began desperately beating her on the head with his beak. Only the screeching and screaming could be heard, both from the grandmother and from the neighbors who ran out of their rooms.

Running up to my grandmother, I grabbed Petya and, kicking him under the tail with my foot, ordered him to move away. Petya, craning his neck, ran up the stairs to the balcony and disappeared. The whole family looked for Petya that day, but could not find him. "That's it," we thought, "Petya is offended and has left home. From whom, from whom, but such resentment from a friend he could not bear.

We waited for Petya for a long time, until late in the evening, but he never showed up.

When I went to bed, and pulled the blanket off my bed, from under the pillow a fan opened the long tail feathers of Petya, who, sticking his head under the pillow, was sleeping sweetly.

I lifted the pillow and woke Petya up. He looked at me and stuck his head under the pillow again. Petya forgave me for my act, but in doing so he made himself equal to me.

But I did not like this kind of neighborhood, and despite the respect I had for him, I let him down on the floor and commanded him to sit down. After grumbling a little, Petya reluctantly retired to his bar.

The next day, we learned that Lapinka was dead. They blamed it on Petya, but I think there was another reason. So Petya became a young widower. He often went down to the yard, and choosing the most beautiful pebble, waiting for her, and could not understand why she did not come out to him. But time heals. It cured Petya, too, who began to look for a new friend outside our yard.

Once he got accustomed to the yard, Petya became the master of our yard as well. Not only guests who came to our yard were afraid of Petya's presence, but a random stranger who came into the yard could get a smack from a strong and brave rooster. Our neighbors knew about it, and if they needed to come into our yard on business, they would cautiously ask if the rooster was in the yard.

There was a neighbor and his family who lived in the yard. He was a veterinarian and always admired our rooster.

One morning, he called me and with a sly smile said, "Well, dear, your Peter will no longer be our master in the yard, I brought a Dutch rooster, which weighs twice as much as yours, and his height is such that your Peter's head will be under my rooster's tail. There was a huge rooster walking around in the yard. Usually, when I would go out on the balcony and talk to someone standing in the yard, Petya would jump on my shoulder and watch the conversation from there. And so it was this time.

No sooner had my neighbor finished speaking to me than Petya jumped off my shoulder and flew from the second floor into the yard right onto the back of the Dutch rooster. No matter how hard the new rooster tried to throw Petya off himself, he could not do it without his neighbor's help. It's not fair, shouted the neighbor laughing, - it was unexpected, let's be fair. With these words, the neighbor set the roosters apart and turned them against each other. But the Dutch rooster turned away from Petya and began to run away. Petya flew literally in front of him, and constantly gave him powerful blows with his beak.

"Shame on you," his neighbor shouted, "stop and fight, or I'll stab you.

When the chase continued into the neighbor's room, and the sound of breaking dishes was heard, the neighbor asked me to help and chase Petya away. This way Petya proved once again with his behavior who was the boss in the yard. In the evening, the neighbor invited me to dinner, the chahohbili of Dutch rooster was very tasty.

As the days went by, Petya began to visit other yards, from where the tenants of those houses began to come in with claims to tame our rooster. Petya pecked out the eye of one of the yard dogs, and crippled the owner of that dog by giving her a smack. On another occasion, he bloodied a rooster, who was forced to give up his chicken to Petya. But when Petya began to claim the neighborhood master, the neighborhood rebelled. "We are afraid for our children," said the tenants of other houses. And one day Petya ran into the yard, limping, without a tail, and followed him into the yard and the tenants from another house with sticks. "We could hardly tear your rooster away from the child - they shouted, we will kill him or lock up this madman.

In the evening we had a family council. To lock up Petya, and to deprive him of his freedom - we considered it a cruel sentence. If we didn't lock him up, Petya would surely be killed. What to do? And then the outcome of the discussion was resolved by Grandma Maria, who hated Petya at heart.

In the morning, some stranger with an axe entered the room where, not having recovered from yesterday's beatings, Petya was sitting on the crossbeam, and without any effort, grabbed Petya by the legs and lifted him head down.

The stranger was led by his grandmother.

Petya, for some reason, was calm. It was either that he had given up after yesterday's defeat and was unwilling to resist, or that he was weak from the beatings he had received and could not break free from the stranger. "Where are they taking me?"



Petya thought. - Down the stairs into the courtyard. And why are they taking me outside and putting my head on the curb?" And Petya, stretching his neck calmly, began to wait for this stranger to let go of his feet. Petya froze in anticipation.

Feeling a blunt blow to the neck, Petya stopped thinking. His mighty body bounced and splattered the street with drops of his blood for a long time.

With one last twitch of his leg, Petya's body froze, and his head, lying on the side, stared at the rising sun with faint eyes.

We buried Petya in the yard, where Petya and Lapinka first met.

"After that," my father said, finishing his story about Petya the cockerel, we couldn't eat chicken dishes for a long time.

## YEGOR'S LAST VIRGIN LAND

There was an unprecedented silence in history class that day. Either because the teacher's story was interesting to us, or because it was raining all day, or because half the class was present. Some had skipped the last day of class and some were absent for a good reason - there was a flu epidemic. The teacher was then talking about the peasants, how hard it was for them to live in Tsarist Russia.

The bell rang, the lesson was over, but we, as it happened when the classroom was full and the weather was fine, did not immediately jump up from our desks with a shout of hurray, but listened patiently to the teacher's story, and after condemning the tsarist regime, slowly began to leave the classroom. At the entrance to the school we were met by parents with umbrellas. As it was a weekend ahead and we did not have to get up early in the morning, that evening, after sharing my impressions of peasant life with my father, I asked him for a story from the life of my ancestors who lived at that time.

"When the Russian Empire was a great power, my father began his next story, and one of its magnificent provinces was Transcaucasia, which included the multilingual Georgia with its unique city of Tiflis and the no less unique village of Uplistsikhe. When there was no city of Tiflis, one of the capital cities of Transcaucasia was Uplistsikhe, a city carved in the rocks, which means the fortress of God. But when the capital of Georgia at first Mtskheta, and later Tiflis - as Tbilisi was called in the czarist Russia, Uplistsikhe as a throne city, goes into history, and the chambers carved in the rock become empty. People go down to the valley of the river Kura and build the village Uplistsikhe, where one of the many families and the hero of our story Yegor - the father of grandmother Nina is born.

It is said that at that time every family in the village had its own plot of cultivated land, and whoever worked, was not hungry and did not go hungry. Yegor's parents also had their own plot of land.

With the first cock crows, Yegor's mother Keke would raise her five sons and drive them to the garden outside the village to help their father, and in the evening she would take the returning hordes from work and feed them.

One of the biggest holidays in the village was the harvest festival.

On that day, grapes were pressed, churcheli was prepared, and fresh grape juice and wine from the previous harvest were drunk at the festive table. And in the evening, under the beat of drums and gambling zurna and duduka, young people with torches rushed to the fighting circle, where palawans of neighboring villages were competing.

But, any celebration was over, and it was time for the redistribution of the harvest. A part of the harvest was given to the general treasury, a part stayed with the family, and the rest went to the city for sale.

The nearest town to which Keke usually went with a loaded carriage was the city of Gori.

In the city of Gori, Keke and her ten-year-old son Yegor stayed with her namesake. But her namesake, who was happy to host Keke, unlike her friend with many children, had only one son Joseph - the same age as Yegor.

Tired of their work - Keke at the market, and my namesake with household chores, they sat on the porch of the house and talked about their business. Egor, falling asleep without persuasion, for, having helped his mother at the market, was tired, while Joseph sat at his table, laden with books, reading something assiduously until late at night, paying no attention to the guests. Only Joseph's father, Vissarion, was displeased with his son and often argued with him. "These books won't do him any good," Vissarion complained to Keke. - Who needs his poems, that there are few poets. And no one will make him tsar of Russia."

What fate is in store for our children, said Keke to his namesake, who, with a heavy sigh, replied, "I want to see my Joseph as a priest."

"And my Yegor likes to garden, he is so careful with the vine and the flowers that sometimes it seems that he treats them as if they were alive - he will be my gardener," said Keke.

After selling his farm produce, Keke and his son Yegor got on the bullock cart, and Yegor waved his wand and drove the bulls.

Egor and Joseph never met again, their paths were diametrically opposed - Joseph Dzhugashvili later became Joseph Stalin, and Egor Aduashvili remained Egor Aduashvili - fondly called Babayant Mountain in the village of Uplistsikhe.

As the years passed. Egor's older brothers and sister started families, and the village helped them build their own houses. Since Yegor was not yet married, he lived with his father, Keke's mother, and his younger sisters, remaining, like his brothers, a peasant in Tsarist Russia.

One day Keke said to Yegor - "You need to get an education Yegor, go to town, and I with your father and sisters will handle your garden. If anything, do not be afraid, your brothers will not leave us in trouble. And the peasant Yegor, after studying in the city, becomes a track master.

The railroad was laying from Khashuri to Surami, where he met his future wife Natalya.

At first sight Natalya fell in love with hard-working, intelligent, physically strong, slender and handsome Yegor. Yegor's magnificence was complemented by the uniform of a young track engineer. Natalia's parents, having learned that their daughter's suitor was a peasant, were against their marriage, but love takes over and Natalia leaves their native town with Yegor.

So Egor already with his family moves there, where the railroad is laid. At that time, track engineers were allocated plots, where they could have a household before the completion of construction works.

They say that when the narrow-gauge railway was laid from Borjomi to Bakuriani, the work was headed by a young master who, en-

couraging the workers, would take on two sleepers instead of one, and personally laid them on the track - such was Yegor's strength. Deadlines were tight, there were not enough workers, and Egor, in spite of his status, turned into a worker, pushing them up by his example.

Workers respected Yegor and followed him. In turn, Yegor encouraged hard work and was merciless to the ignorant and lazy. Most importantly, wherever Yegor was allocated a plot, he had time to cultivate a magnificent garden, leaving it to his successor, who would be destined to settle there. There was no wedding in the area that was not decorated by Yegor with bred flowers. Orders came even from the city of Tiflis. So Yegor became one of the famous flower gardens in the area.

Then in imperial Russia, masters were generously paid, regardless of their social origin - Egor received then for a month of twenty-five gold pieces, this was then big money. Meanwhile, it was 1911, and the great Socialist revolution in Russia was six years away. At that time, Yegor was raising another virgin land in the village next door to Uplistsikhe, where my mother, your beloved grandmother Nina, was born.

Your grandmother Nina, was Yegor's fourth child, after Sergo, Vasilii and Barbara (Vary), and the fifth, five years later, was born Misha - who will outlive his parents.

When Misha was a year old, in 1917, the Great Russian Empire was gone, and Georgia gained its independence.

Such changes did not prevent Yegor from cultivating his garden and growing flowers, which always decorated the festive tables of the townspeople. There were always many orders.

But, on this day, no one from Tiflis ordered flowers from Yegor.

Yegor well remembered this day in 1921 - the flowers in his garden were trampled and volleys of artillery shook the ground - hit the devastated chambers of Uplistsikhe from an armored train.

At that time this unique monument of ancient culture could have been demolished if not for Sergo, who at his own risk came out to the

soldiers of the 11th Army and convinced them of the inexpediency of shooting the chambers carved in the rock, in which no one was hiding and lived.

The armored train headed toward Tiflis.

So in 1921 Georgia lost its independence and became one of the republics of the USSR.

Days went by, and life began to get better. Yegor revived his garden, and if in the past he had given his flowers for free, necessity forced him to sell them. It was not easy to support a family on a miserable salary. Especially the children had to be educated.

It became difficult in the village - many families became poor and rushed to the city to earn money.

One day, Yegor was entrusted to lead the electrification of the railroad between the town of Kaspi and Gori. Egor, under his personal responsibility, was brought coils of contact wire, which had to be strung in time. At the same time a party "activist" from the city of Tbilisi was assigned to monitor the fulfillment of the order. When the risers were delivered on time, and it remained to pull the wires, the coils of these wires disappeared somewhere. A commission was appointed, and the "activist" was at the head of the commission. "That's it," he said, "trust the czar's former serfs. Yegor was given time to search for the skeins, "otherwise the tribunal."

When the time limit was exhausted, Nato-as everyone called Natalia, in hushed tones, turned to a clairvoyant. Natalia often helped her with groceries and was a friend of hers, but this time she came to her for help herself.

When the clairvoyant met Natalia at the threshold of her house, without waiting for her to ask, she said: - "I know why you came, don't say anything, go home and tell Yegor that I see glowing skeins behind the village, hay is thrown on them. The path to these skeins will show you the trail of the wheel of the cart."

When the commission with three armed "Chekists" entered the yard, Yegor led the strangers to the outskirts of the village.

Dropping the straw, the commission saw skeins of brightly shining wires. There was an investigation, which established that the "activist" had tagged Egor's place for his relative, besides, he liked the garden very much.

The "activist" was arrested, regardless of his party affiliation.

But after this incident, Yegor resigned and, leaving his lush garden, moved to the village of Uplistsikhe to his paternal home, where the widow Keke and her younger daughters already lived.

Egor's first duty was to cultivate his neglected plot and bring it to a blooming garden. He gave himself to farming from morning till late in the evening. One day when he came to his garden, Yegor saw a group of workers under the cover of the Chekists uprooting seedlings and carrying them away somewhere. The chairman of the kolkhoz told Yegor that kulaks like him were being dispossessed - "It's too big a garden you have," they told Yegor, "we'll give you the uncultivated plot, and go to work, toil.

The seedlings were distributed among themselves by the chosen "people," and cabbage was planted in Yegor's devastated garden. The cabbage was eaten by the goats of the chosen people, and the virgin land was given to the dispossessed Yegor to raise.

A few years later, the former Czarist Russian peasant's garden no longer even had cabbage, with only one weed growing in it. The virgin land had been lifted by Yegor, and Yegor admired his new garden, which fed his family and replenished the collective farm coffers.

When Keke was ninety-nine years old and still able to manage the farm, she fell ill with dysentery. Keke was gone, only three days short of her hundredth birthday, and all the burden of the farm fell on Nato's shoulders. Nato was loved in the village for her easy-going nature, no wedding or celebration was held without her, she was always the ring-leader of the festivities, dancing, singing, playing the harmonica and

dhol, leading the young people. Life seemed to be getting better, but it was not.

A new wave of dispossession devastated Yegor's erected garden. Yegor was given a smaller plot, and suggested that he quietly develop the virgin land.

When the Great Patriotic War broke out, my middle son Vasily was sent to the military academy, from where he got into the thick of the Battle of Stalingrad as a supply officer for Zhukov and reached Berlin with him with the rank of lieutenant colonel. His younger son Mikhail was transferred to the Caucasian front, where he was wounded while crossing the Kerch Strait, and after the hospital he was drafted into the "NKVD". Elder son Sergo, older daughter Varya and younger daughter Nina remained at the rear, working for the front. Egor raised the penultimate virgin land and helped the front with food. There were no hard feelings, all his anger was directed at Hitler.

The whole country celebrated the victory over Nazi Germany.

A new life began. Cities were reborn from the ruins, new factories and plants were built, new educational institutions were opened, the agriculture was growing, the market expanded. Commodities became cheaper year by year, with falling production costs due to new technologies. Ruble strengthened. The country moved to the forefront in terms of living standards. People of the winning country were not afraid to leave the door of their homes open when going to work. Yegor's family was also returning to peaceful life.

It was 1948. That summer a rich harvest was successful and the whole of Yegor's family gathered for a general celebration with their children: Neliko, Zaira, Gogi, Zuriko, Victor and I Misha - your father. Then," said my father, "I was seven years old and my brother Victor was five when we participated with the adults in the harvesting of grapes, which were delivered to Egor's house on a cart.

Unloading the grapes into a specially designated box with a hole in the bottom, the kids were stripped naked and asked to trample grapes.



There was no end to the joy, everyone squealed, jumping on the grapes, tumbling around and stuffing their insatiable stomachs with them whenever possible. And finally, Egor, having taken the children off the grapes, began to trample them himself. From the hole in the box, liquid flowed out, which began to replenish the clay vessels buried in the ground. When the vessels were filled up, the remaining grape juice was used to make churchela. And in the evening Yegor's whole family was finishing their day's work at the festive table.

The first toast at this table was raised to the Motherland, to Stalin, the second - to the great victory over the Nazis, and the third - to those who have not returned from the battlefield. And then, the toasts went to Yegor and Nato, their children and grandchildren, and finally to Keke, who was no longer with them. The next day, laden with provisions, Egor's guests went their separate ways, all living in different cities.

But happiness always walks side by side with misfortune - Yegor's youngest son Misha, who was not killed at the front, dies in peacetime, hit by a streetcar. Yegor's wife, Nato, fell ill with grief, and Yegor built a hut in his garden and would occasionally return home. He could not look his Nato in the eyes, and he felt the shared grief away from her. When Yegor's eldest son, Sergo, took his sick mother with him and Yegor was left alone, the tent became Yegor's main refuge.

In 1953, in the spring, Stalin - the last response of his childhood - dies, and in the winter of the same year, Yegor's first and last love - his faithful and always submissive wife Nato - dies.

With the coming to power of N.S. Khrushchev, the collective farms are merged into the state farms, and Yegor's penultimate virgin land, once famous for its abundance, falls into disrepair. Not missing their chance, those close to power take away Yegor's garden by a tried-and-true method and give him a small plot.

Exhausted, Yegor bitterly accepts this last gift from the authorities, and once again raises the virgin soil, moving his hut into this future

garden. The children's persuasions to move to the city and leave their farm had no effect on Yegor, and he remained in the village.

With the advent of autumn, because of heavy rains and drafts in the tent, Yegor's weakened body could not withstand it. And Sergo, who was informed of his father's illness by his kind-hearted neighbors, transfers Yegor to his home in the city with a diagnosis of pneumonia. The whole winter they fought for Yegor's life and did not let him die.

Spring came. The snow melted and the ground was bare.

The chirping of mating sparrows did not stop from morning till evening. Yegor came to his senses, too.

And, one morning, with the rooster's cock crowing, Yegor came out into the yard, shuffling on his gaunt and trembling legs. After looking around, Yegor knelt down and stroked the ground. Then he scraped a handful of earth and began to crumple it, feeling every bit of it through his fingers.

Suddenly, Yegor felt a lump in his throat, and his dried eyes glittered, becoming moist. "It's time," Yegor whispered, and, rising from his knees, straightened up as best he could.

The next morning, Sergo did not find Yegor in bed. Yegor was neither in the apartment nor in the yard. Your father had bought a ticket to Uplistsikhe - said the cashier of the Khashuri railway station, where everyone knew Yegor both as the father of his boss and as a former railway worker.

Without waiting for the next day, Sergo left for the village.

Entering the garden, he called out to his father, and without receiving an answer, he headed for the hut.

Next to the hut there was a walnut tree, planted by someone a hundred years ago, under which, when there was no garden yet, passers-by liked to rest. When Sergo passed by this tree, he saw his father. Yegor, sitting on the ground, had his back leaned against that mighty tree, and was looking up into the open sky. With the palm of one hand he

rested on the ground, and the palm of his other hand rested on the knees of his outstretched legs and covered some sagging papers.

Sergo gently closed his father's faded eyes and released the papers from under his fingers.

A spring wind blew and scattered these papers around the garden.

It is said that one piece of paper was a picture of Yegor's youngest son, Misha, another was a picture of his beloved wife, Nato, and the third was a picture of Stalin.

So, raising his last virgin soil, Yegor, one of the last peasants of what was once mighty Czarist Russia, passed away.

## SYMPHONY OF NATURE

Strange as it may seem, but this evening I felt no fear of the elements that had struck the city, but on the contrary, I watched its wiles with interest, merging with it in my thoughts that took me to the distant past.

What mental visions did not pass in my head.

I would climb to the top of an impregnable rock and burst into the temple of my desires built in my childhood, and then with great speed, a raging hurricane, was carried away from the devastated chambers of the temple into an unknown abyss of darkness and found myself again at the window of my apartment, outside which the elements were roaming.

The relentless roar of the hurricane, coming from afar, was approaching, gaining strength, under which some trees bowed low to the ground, and others were torn from their settled places with the roots and fell to the ground with a noise

The sky burst with lightning, and water poured down in torrential downpours, pounding the roofs and the remaining panes of unbroken windows with a drumbeat. The peals of thunder did not stop, adding to the unwritten symphony of nature.

I do not remember how long I stood fascinated by what I saw and heard at the window of my room, especially since my thoughts were whirling in time with the elements, and only the blinding lightning brought me to my senses, and I saw an elder dressed in black in front of my window. Successive lightning strikes illuminated the elder standing alone in the street, looking out the window of my room. Only when I caught the stranger's gaze, beckoning me to follow him, did I become afraid, and I stepped away from the window.

Another flash of lightning illuminated my room, and I saw the door open and the old man appear on the threshold. He stood there, drenched and silent, staring at me longingly. I wanted to shout in ter-

ror, but could not, so I ran towards the old man and pushed him out of the room and shut the door. Behind the door I heard a pitiful moan, and through the keyhole I saw light coming from a stranger.

Who was he? - I thought. Who are you? - I shouted, my back against the door. There was no answer, and the doorway went dark. The room went dark, too. I groped for the window, and saw the figure of an old man behind it, moving away. It's you! - I heard my inner voice - follow him, he will lead you to the temple of your dreams. I made my way to the door and threw my cloak on me, and rushed out into the street.

The street was empty, not a soul around, the rain was pouring down in a solid wall, and the cold drops of water rolled from my hair, burning my eyes.

It cannot be, there was no future, where did my old age come from, I am following you, where are you - I mumbled in despair and followed the glowing silhouette of an old man in the distance.

When the glowing silhouette of the old man disappeared from my sight, I suddenly saw before me the house I had known since my childhood, and the glowing window in that house. In the window I saw a little boy looking at me in wonder. What a familiar face - I thought, and a warm shiver ran through my body. I stared out the window until the baby moved away from her.

Some force pushed me after him, and I found myself at the familiar door. With a slight movement of my hand I opened the door and found myself on the threshold of my childhood. The light in the hallway blinded me, and I froze in front of the child who ran up to me. He gave me a frightened look and asked, "Who are you, uncle? I wanted to touch the kid, but my appearance was so pathetic that it disgusted the kid, who pushed me out and slammed the door in my face. I only groaned in frustration. When I came to my senses, I started shouting: baby, I am you, you understand?"

But no one heard me, the past began to move away from me with dizzying speed. The whirlwinds of the hurricane swept me back from my cloudless childhood into the maelstrom of my adolescence.

I stood at the window, and listened to the great symphony of the elements, whose sorcerous power had arranged for me to meet both my future old age and my past childhood. I saw old age reaching out to me, and I wept for my lost childhood.

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**M.R. Amirbegov, Y.M. Amirbegov**  
**THE ONTOLOGY OF THE CAUSAL BASIS OF MAN**  
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**TO THE THEORY OF TIME**

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