

objects)” exists, then “Non-discrete state of matter (i.e., a field)” exists; if “Non-discrete state of matter (i.e., a field)” exists, then “Discrete state of matter (i.e., a set of discrete objects)” exists.

The principle of non-existence (absence) of emptiness results from this. The principle of non-existence (absence) of emptiness reads as follows: emptiness as the absence of matter does not exist. The proof is as follows. One should make the following inverse assumption: if matter exists, then emptiness (as absence, non-existence of matter) exists. In this case, the following contradiction arises: if matter exists, then matter does not exist. Therefore, the assumption made is erroneous. The correct relation between concepts of matter and emptiness represents the relation of disagreement: concepts of matter and emptiness are contradictory concepts. There exists either matter or emptiness. This means that emptiness as the absence of matter in the Universe does not exist, and the bound of matter does not exist.

3. There is no general form of the formal-logical definition of matter. A proof of this assertion is as follows. According to formal logic, a concept is defined in general form via indication of the proximal (nearest) genus and the species difference (specific difference). Logic determines the following method of definition, which does it possible to indicate the essential features (signs) of the definable objects. The definable concept is led (brought) under the other, more general, concept. Moreover, the definable concept is subordinated to a more general concept. The volume (scope) of the definable concept is part of the volume (scope) of the more general concept. Thereafter, the feature (sign) which expresses the difference of the definable concept from other concepts is indicated. The volumes (scopes) of the other concepts which are also subordinated to this general concept enter into the volume (scope) of this general concept. Such method of definition is called definition by means of indication of the proximal (nearest) genus and the species difference (specific difference) (in Latin: “*definitio per genus proximum et differentiam specificum*”). This implies the following assertion. If one wants to define an object, one must, first of all, find the proximal (nearest) genus (in Latin: “*genus proximum*”), i.e. directly a wider class of objects into which the objects under consideration enter as a species. Then one must find a species difference (specific difference) (in Latin: “*differentia specifica*”), i.e. that feature (sign) which distinguishes (differentiates) the objects under consideration from objects of other species of the same class (genus). Thus, the definition by means of indication of the proximal (nearest) genus and species difference (specific difference) implies that all features (signs) of the definable object are not enumerated (listed), but only two features (signs) are indicated: the generic (the proximal (nearest) genus) and species features (signs).

But the highest genus cannot be defined by means of the proximal (nearest) genus and species difference (specific difference) because the higher genus for the highest genus does not exist. The concept (category) of matter represents the highest genus. Consequently, the general form of the formal-logical definition of the concept of matter does not exist.

The concept (category) of matter would be a meaningless concept if there were no genetic definition of matter.

4. The genetic definition in formal logic is a special form of definition that shows how a given object, a given phenomenon arises. The genetic definition of the concept (category) of matter is as follows: matter is the manifestation of the essence (information). The genetic definition of the concept (category) of matter would be a meaningless definition if the concept (category) of the World (Universe) did not exist.

5. From the formal-logical point of view, the concept of the World (Universe) is a single and concrete (specific) concept. The concept of the World (Universe) can be defined as follows: the World (Universe) is the unity of essence and phenomenon (i.e., manifestations of essence) where essence is information, and manifestation of essence is matter. Consequently, the concepts of World (Universe) and matter are not identical concepts.

6. The World (Universe) represents a set of states of information-matter. The World (Universe) is “reality mentally-divisible into aspects” [47, 54, 56, 59]. In other words, the World (Universe) is the system that has a structure. (Structure is a set of the stable connections between

the elements in the system. These connections ensure the integrity of the system and identity to oneself, i.e., conservation of the basic properties under various changes).

God is the “reality mentally-indivisible into aspects” [47, 54, 56, 59]. Reality is defined as follows [47, 54, 56, 59]:

$$V_{(\text{reality})} = V_{(\text{reality divisible into aspects})} + V_{(\text{reality indivisible into aspects})}$$

where V is the scope (volume) of the concept.

7. The material structure of the Universe represents a set of states of matter [33, 37, 46, 47, 54, 56, 59, 95, 96]. These states are not mutually exclusive states, but are mutually complementary (supplemental), mutually connected, mutually dependent, mutually necessary states. The states are as follows.

a) The state “physical vacuum” is the zero state of matter, containing zero information. Therefore, matter in the zero state has no properties. Matter that does not contain information is matter at rest (i.e., matter without movement) because information is the cause, the source of movement. (Movement is change in general).

b) The state “system block” is the state of matter (organ) which collects, stores, keeps, processes, transmits information and performs informational commands of God. God controls (governs) the system block. The system block controls the Universe by means of information. (The Universe is an informational-material system. Therefore, the informational-material elements of this system are the informational-materially connected elements). The “system block” contains all the information about the past, present and future of the Universe. The “system block” has an informational impact on the Universe. Informational impact is manifested in the material form. (The informational impact can materialize (i.e., reproduce in a material form) the events of the past, present and future time).

c) The state “ether” is a state that has a single (unique) property: continuity. Continuity as the single (unique) property of matter is a nonphysical (i.e., mathematical) property of matter. “Ether” is a material field in general. The material field in general represents a non-physical field. In other words, the material field in general has no physical properties at all (for example, gravitational property, energy property). The only property of this non-physical field is mathematical continuity. Therefore, the “ether” is the passive and immovable state.

d) The state “objects” is a set of discrete informational-material objects (electrons, protons, atoms, molecules, people, planets, galaxies, etc.). The objects have physical and other properties due to information. Therefore, the objects are active and changing (i.e., moving) objects. In other words, the “object state” of matter is a set of discrete informational-material objects (micro-objects and macro-objects, including biological (stable and unstable) and non-biological (stable and unstable) objects (for example, UFO).

8. The informational-material objects are a material manifestation of the essence (information). Each object has the measure: the unity of qualitative and quantitative determinacy. The movement of an object is a material manifestation of information. (The movement of an object is change in general). Therefore, the energy of the informational-material object is a form of manifestation of the movement of the informational-material object. Information determines movement (energy); movement (energy) characterizes information. In other words, energy is a measure of the movement of an information-material object.

An important example is the collision of two elementary particles in a collider. Any elementary particle is an informational-material object. The act of collision of two informational-material particles leads to a qualitative change (transformation) of informational-material particles: two particles turn into many other informational-material particles. Each specific energy region of the colliding particles corresponds to a certain set of nascent (generated) particles. But this does not mean that the colliding particles are composed of a set of nascent (generated) particles. The set of nascent (generated) particles characterizes the act of annihilating (exterminating) the colliding particles; the act of annihilating (exterminating) the colliding

particles determines the set of particles being born. In other words, a change in information leads to the birth and extermination of informational-material particles.

9. Discrete informational-material objects affect informationally on the ether (non-physical field), generating local informational-material (physical, biological, etc.) fields (for example, gravitational, electric, magnetic fields) in the ether. These local informational-material fields in the ether are associated with generating objects. Local informational-material fields are moved in immovable (fixed) ether. The local informational-material field "looks like an object's shadow, a reflection of an object in the ether, an ethereal image of an object".

10. Man (as a discrete informational-material (psychophysical) object) can generate mentally (i.e., by introducing information (thoughts) into the ether) a field phantom (ghost): an unstable informational-material object. (The process of thinking is one of the many forms of human movement as movement of informational-material object).

11. There exist local field creatures, beings (for example, angels, and devils) and local field effects (for example: telepathy, telekinesis, levitation, teleportation). The existence the local field beings and the local field effects can be detected by man if the consciousness of man is in certain state. (The consciousness of man can be in various (different) sates). For example, self-ignition of man (i.e., ignition of physiological body, not clothes) is that the psychical body of man obliterates (destroys) its physiological body by introducing information (thought) into the ether. (In other words, the psychical body burns one's physiological body, leaving the man's clothes in inalterable condition).

12. Informational-material objects (for example, UFO as "Luminous Ball") are characterized by form and content. "Luminous Ball" (as the content of the informational-material, rational, intelligent, intellectual, thinking object), interacting informationally with "informational-material Matrix", can consciously take the form (shape) of the "informational-material Matrix". In other words, "Luminous Ball", consciously reaching the region of the matrix "Birth (nativity) of Form", can consciously take the form of another informational-material object. If this object reaches the region of the matrix "Extermination (destruction) of Form", then the object turns into the "Luminous Ball". For example, if the "Luminous Ball" reaches consciously the region of the image of the bird at the Nazca Valley, the "Luminous Ball" turns into the living bird. And this living bird, consciously reaching the region of Stonehenge, loses the form (shape) of a bird and turns into "Luminous Ball". (Analogy: Sperm, reaching the region of the uterus (like a matrix), turns into a man). In addition, the "Luminous Ball" can take the form of a man, an angel, a devil, a rational, intelligent, intellectual, thinking airplane or spacecraft, etc.. Also, all known pyramids (for example, the pyramid of Cheops) - as informational-material objects - were constructed by means of informational control. The pictograms on the wheat fields are constructed by means of informational control.

Thus, all anomalous (in the point of view of man) objects and phenomena are material manifestations of controlling (governing) information.

2. The correct paradigm of science

1. Reality as a scientific truth is an expression of human knowledge of the Universe within the framework of the correct methodological basis: the unity of formal logic and rational dialectics.

2. The criterion of truth represents the unity of formal logic and rational dialectics.

3. The goal of science is the search, comprehension, ascertainment, fixing and development of truth. The solution of the epistemological problem of the relation between absolute and relative truth is as follows. The existence of relative truths is a consequence of the existence of absolute truth. Absolute truth is not the sum of relative truths. Absolute truth determines relative truths; relative truths characterize absolute truth.

4. Rational dialectic is the corrected materialistic dialectics (dialectical materialism). The basic idea of the rational dialectics is as follows: Creator, Governor of the Universe is God. The

existence and uniqueness of God is the Absolute Truth. The principle of existence and of uniqueness of God reads as follows: there exists the scientific object “Absolute, Creator, Governor of information and of material manifestation of information”. The scientific object “God” represents the unique and correct theoretical model (identifier) of the religious object “God (Creator, Governor of the World)”.

5. God created the system block, the ether and the objects, introducing information into the physical vacuum. God governs the Universe by means of information. This statement shows the existence an analogy with the functioning of the “man-computer” system: a computer is the Universe; the blank screen of the computer monitor is a field in general; the objects on the screen are objects in the object state of matter; a programmer and an operator (like God) control (govern) objects by means of the system block (unit); objects do not know about the existence of a programmer and an operator.

The destination (purpose) of the science of the 21st century is to research the fundamental relation between governing (controlling) information and the material manifestation of governing (controlling) information in the Universe.

3. Discussion

1. As is known, the problem of building a scientific picture of the world was actively discussed by scientists in the 20th century. In the 21st century, scientists probably already understand that neither physical, nor mathematical, nor chemical, nor biological, nor any other special-scientific picture of the world can be built because: (a) all special sciences contain formal-logical and dialectical errors. In other words, the existing special sciences do not satisfy the correct criterion of truth; (b) the set of special sciences is not a system (i.e., is not unified science of the world (Universe)). Consequently, unified scientific picture of the world cannot be created. This fact means that the standard paradigm of science enters the greatest crisis.

2. Human knowledge is a consequence of the paradigm (i.e., the methodological basis of science, the criterion of truth). By definition, the paradigm is the initial conceptual scheme, the model of problem statement and of solution of problems, the set of research methods used by the scientific community during a certain historical period. The conception is a way of understanding, the interpretation of any phenomena, the main point of view, the guiding idea, the constructive principle of various activities.

As is known, the starting point and the basis of the standard paradigm of science is the statement that: (a) God does not exist, (b) Humanity is the highest stage (step) in the development of Nature. Therefore, the world can be cognized by Humanity; (c) the solution of the epistemological problem of the relation between absolute truth and relative truth is as follows: absolute truth is the sum of relative truths; the Human tendency to comprehension of absolute truth is an infinite (endless) process; (d) the inductive method (way) of cognition leads to the attainment of absolute truth; (e) the “whole” can be divided into “parts”; the cognition of the “part” leads to the cognition of the “whole”. But the standard paradigm does not contain a formal-logical criterion of truth. Recently, it has become obvious that many phenomena in the world cannot be researched (cognized) within the framework of the standard paradigm. This proves the fallacy of the standard paradigm which is not a consequence of the correct methodological basis. In other words, the standard paradigm does not meet the criterion of truth.

3. The theory of systems (systems approach, systems analysis as a concretization of the laws of dialectics) reads as follows: the properties of the system of the elements determine the properties of the elements of the system; the properties of the elements of the system characterize the properties of the system of the elements. In this point of view, the research of the elements of the system “Universe” cannot lead to the cognition of the system “Universe”; cognition of the Universe as a “whole” can lead to the research of the elements as “parts”.

4. Important examples.

The study of collisions of elementary particles in a collider cannot provide information about the structure of elementary particles because the result of a collision characterizes only the informational-material act of the qualitative change of the colliding particles. In other words, elementary particles born as a result of a collision are a material manifestation of a change in information. Elementary particles (in the exact meaning of this term) are not constituent elements (“tiny bricks”) of matter. Therefore, scientists who are looking for elementary particles as constituent elements (i.e., “tiny bricks”) of matter are dreamers (fumblers).

The dreamers (fumblers) in science existed at all times. The great dreamers (fumblers) of the 19th and 20th centuries created, for example, statistical physics, the special theory of relativity, the general theory of relativity, quantum mechanics, and quantum electrodynamics, the theory of “Big Bang”. The dreamers (fumblers) of the 21st century are trying to create a unified field theory. But the theories proposed by the dreamers (fumblers) do not satisfy the correct criterion of truth. The dreamers cannot think, analyze and create theories within the framework of the correct methodological basis. They can mislead the scientific community. Therefore, science enters into the greatest crisis.

5. The system “Universe” (as a “whole”) cannot be cognized in parts (piecemeal). The system “Universe” (as a “whole”) cannot be cognized in the analytical, inductive way (i.e., in the way “from particular to general”). The system “Universe” (as a “whole”) can only be cognized in a meditative (non-analytical) way. The meditative method of cognition leads to the recognition of the existence of God. Recognizing the existence of God leads to a deductive approach to researching the Universe. A deductive approach to researching the Universe is possible if scientists acknowledge the existence of God as the scientific object “Absolute, Creator, Governor of essence (information) and of material manifestation of essence”. In this case, the existence of God would mean and explain the limitless multiformity of aspects of the Universe, the limitless variety of life forms (organic and inorganic forms), the limitless variety of mind forms, the existence of Higher (Superior) Intellect (Intelligence), the boundedness (finiteness) of the Human Mind and the boundedness (finiteness) of science. The scientific recognition of the existence of God would be the greatest achievement of the Human Mind: the establishment (ascertainment) of the Absolute Scientific Truth. The recognition of the existence of the Absolute Scientific Truth is the starting point and the basis of the correct paradigm of science.

Thus, the goal of the correct science of the 21st century is to research the fundamental relation between controlling information and the material manifestation of controlling information in the Universe.

Conclusion

Thus, the critical analysis of the foundations of modern science shows that: (a) science enters into the greatest crisis because science contains gross methodological errors; (b) scientific researches are not carried out within the framework of the correct methodological basis: the unity of formal logic and rational dialectics. This means that the standard paradigm of science should be replaced by the correct paradigm. The proposed science paradigm as the content of the correct methodological basis represents the following conceptual system:

1. Reality is the unity of opposites: the controlling (governing) aspect and the controllable aspect. The controlling (governing) aspect is God, and the controllable aspect is the Universe.

2. The principle of existence and of uniqueness of God reads as follows: the scientific object “Absolute, Creator, Governor of essence (information) and of material manifestation of essence” exists. This scientific object is the unique and correct theoretical model (identifier) of the religious object “God (Creator, Governor of the World)”.

3. The Universe represents the informational-material system: the unity of essence (information) and of material manifestation of essence. The manifestation of information is

matter. The material structure of the Universe represents the set of states of matter: the physical vacuum, the system block, the ether, and the discrete objects.

4. God created the system block, the ether and the objects, entering information into the physical vacuum. God governs the Universe by means of information.

5. The correct science of the 21st century should research the fundamental relation between the controlling (governing) information and the material manifestation of the controlling (governing) information in the Universe.

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