

Quantum Equivalence of Information, Matter and Energy: $E = {}^i mc^{2*}$

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Submitted: 07 Nov 2018; Accepted: 21 Nov 2018; Published: 11 Dec 2018

Introduction

The universe as the spacetime unity of all its parts (beings) is a self-realizing information with the quantum resonance feedback formula $E = {}^i mc^2$ of mass, energy and information. Being is a basic part of triune biocosmos whose quintessence is life, i.e. the informational interchange of matter and energy among directly or indirectly visible particles of universe. Information rays fulfill whole four-dimensional space-time (information pattern field) that allowed them to pass through it without obstacles and interact with matter and energy. In extreme cold quantum physics suddenly becomes visible when all moving cosmic particles cease, what only man can describe. For example the individual mirror image (informgraph) of man is a local result of resonance of information field on bidirectional information rays, which now we can see and even photography! The observing beings detect not only light, but first of all the information rays coming from any object and moving in any direction not being restricted, what e.g. happens with light or language. The mirror picture does not contain a single human atom, because it is only the resonating information field (Figure 1).



Figure 1: Real person and personal mirror (informgraph) pictures

Each human word is the informational part of individual living person who belongs to the human verbal world. The most significant quality of alive being (having life) is the distinguished possibility of transferring its life from one person, place or situation to another, because life is not only quality which alive people, animals and plants have when they are not dead, but which solely cannot move away from the remaining not living objects and substances [1, 2]. Similarly mass is just super concentrated form of energy and both entities can be turned from one form to the other and back again owing to information rays and pattern field (natural laws), what only man using his senses and knowledge describes as informational

basis of individual and social human life. For example the well known equation $E = mc^2$ was related only to two of the three constant cosmic parts, but now it is also possible to notify existence of third information which at the quantum level particles exist in a sort of phantom world probabilities, until they are observed as existence of real particles: $E = {}^i mc^2$. The equal sign (=) denotes matter and energy as quantity equal and at the same time raised to the power of information (=ⁱ) it defines the information's part in the equation. Man, composed of the same elementary cosmic particles himself is only the smallest part (being) of human verbal world, because the quantum of mankind are parents which may bring each man or woman to existence as races of human beings [3, 4]. My philosophy of being verificates also the existence of human transcendental verbal world (ideas), because language creates the informational basis for individual and social human life. Mathematicians have used their advanced methods to study unusual phases or states of matter in ordinary three-dimensional materials, in which quantum effects are often hidden by random particle movements. For example Smoluchowski-Einstein's equation of diffusion coefficient $D = \lambda^2/2t$ (a distance λ that a particle can jump when diffusing in a time t) gives a connection between microscopic and macroscopic world of its particles. In extreme cold (close to absolute zero) quantum physics suddenly becomes visible when all moving cosmic particles cease and so Universe seems to be composed of 4.9% atomic matter, 26.6% dark matter and 69.5% dark energy. Alas A. Einstein in his theory of relativity disproved the ether known as the fifth element to air, earth, fire and water of antique universe, once thought to fill all space and allow waves to pass through it and interact with matter and energy (Figure 2).

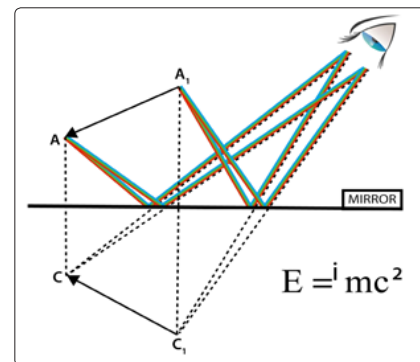




Figure 2: The sight (- - - -) and light rays () between eye, mirror (), real AA_1 and informational CC_1 objects.

Man usually realized that by looking in the mirror he perceived his form as material things or by changing their shape as appearance of related their energy (Figure1). Nevertheless the mirror image (informgraph) is a result of resonance of local information field on human bidirectional information rays, what we can see and even photography! Now the observable beings refer to the capability to detect not only light, but first of all the information rays coming from any object and moving in any direction not being restricted, what e.g. happens with light rays or speech sounds. Early the effects of electromagnetic radiation have long been known, recently the gravitational radiation has been discovered and new types of neutrinos and Higgs particles have been demonstrated:

Information of spacetime biocosmos

<https://drive.google.com/file/d/1DIDmxxIMMZ5OoQSq0NUuGR8YRni3Jzx/view?usp=s>

Philosophy of being

Modern philosophy enables the verification not only the unity of micro- and macro-cosmos, but first of all the existence of human transcendental verbal world (ideas) of each person, who, through words, can express his psycho-emotional state with self-evaluation of personal achievements and motivation for performing them. Presently it is possible to notify existence of information and why its appearance, e.g. purely informational conscience is the part of man that judges how moral his/her own actions are and makes feel guilty about thinks that have be done or only that feel responsible for them. At the quantum level particles exist in a sort of phantom world probabilities, until they are observed as existence of real particles.

Humans view their own consciousness as the non-material motivation for their lives and actions according to their own values of social life and livelihood. A lot of information is passed on as true and correct, but not always is known who has created it and for what reason, or in what surroundings it manifests itself. According to Jan Paul II "Truth always presents itself as universal event. If it is not the whole truth, that it must be true for all people and all times." Thought is made of life, which allows thought to reach itself. Also the information may be inaccurate, superfluous, or its effects are not always directly foreseeable, e.g. "basta" is the name given to an illness (informatonosis) which is detrimental to personal and social health, the cause of which is blameful anti-human socially tragic activity or only advertisement generated by bad humans. Unfortunately sometimes the information is based upon seemingly correct theoretical assumptions not proven in practice, but is spread as if it was a tried and tested by e.g. diagnostic method or therapy. Only years of research, additionally confronted with a recent state of whole knowledge posses current value to express the invisible informational power to peoples which may falsely believe themselves. Man for centuries did not take into account even the possibility of penetration through opaque objects newly discovered radiation of neutrinos, gravitational and finally informational rays in the whole cosmic spacetime. The methodological postulate of visual radiation was put forward in the middle Ages by Polish-Turing scientist Vitelon (1220-1280), who believed that in addition to light radiation, which penetrates only through the transparent structures - there is a specific type of visual radiation in the range of colors and shapes. The greatest scholars headed by Leonardo da Vinci, Copernicus, Kepler, etc. used his written work "Perspectives," which was published not till 1535 in Nuremberg and also in 1572 in Basel. Vitelon's merit is the separation of visual (read: information)

radiation from the light rays! Today, scientists translating his ten volumes into modern languages leveled the visual radiation with light, and the rays from very shape of things are still overlooked. The light or heat rays are reflected from the obstacles encountered under the so-called a reflection angle equal to the angle of incidence. In Fig.2 the information and light rays from the object AA form a visible CC image, from which also the rays propagatate in the whole surrounding space. Thanks to this the image is visible not only in front of the viewer, but also can be viewed at different angles of view with a judgment of visible form, whose size and shape depend on the angle of view and coordinates the movement of eyeball as a power of sensual distinction and memory by seeing and fixing individual forms that are comparable in every case (Figure 3).

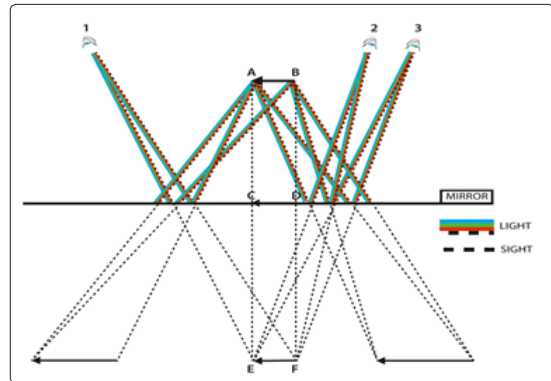



Figure 3: The sight (- - - -) and light () rays between eyes, mirror (_____), real AB and informational CD and EF objects.

The human mind reaches the external world through the mediation of the physical and physiological cascades. This integrative approach leads to a more humanistic understanding of us and our relation to nature. The carriers of images - as still generally accepted in science- are electromagnetic waves and thanks to them they can be fixed technically (photographed), but these images reach different fields (viewpoints). The course of this type of spatial radiation takes place along the road on which real information (image) travels in the direction from the object of observation AB, through the mirror to the observers or cameras of digital transmission records (Figure 4). Transmitted images are successive inform graphs (CD, EF) of the original perception object, i.e. a two-dimensional portrait.

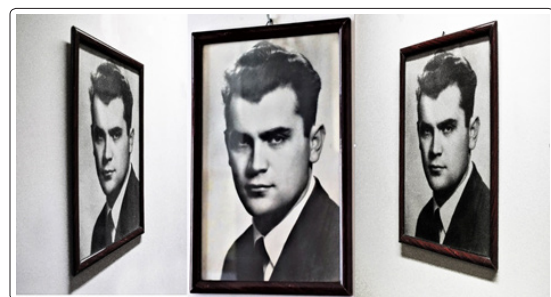


Figure 4: Inform graphs at observer's localization en face and from both its sides.

One of the most important parameters enabling the process of "perception" is light, which is colloquially called visible part of electromagnetic radiation. Also the sight rays propagatate linearly in all directions, and just like light, the whole space was to be filled. Practically, in this context, everyone can see the silhouette visible

in the mirror, which reflection does not contain any single atom of the real person. A word is a particle of information which links the unbreakable material-energetic constituents of all peoples as the most highly organized multicellular organisms due to practice of using the lingual information. Despite their qualitative nature they are just as real as the cascade of physical waves and physiological processes, which do not cause, but only mediate the sensory experiences not physical, but mental in nature. Precise determination of the human electromagnetic wave length range is not possible, because every personal sight has a slightly different sensitivity. In the exact sciences, the term optical radiation is subject to the laws of geometric and wave optics what covers the range of electromagnetic waves from 100 nm to 1 mm in length, divided into three ranges: infrared, visible light and ultraviolet. All of these ranges can be observed and measured using a similar set of instruments, and the results of these tests can be developed using the same laws of physics.

Each person's unique identity appears in the moment the two gametes with different parental identities merge into new cell called - zygote, which biological importance is demonstrated by the huge selection from millions of daying spermatozoa and hundreds of thousands of egg cells to be used at the moment of conception. The journey through death towards life is a mystery of an inter-generational transfer of life between individuals and generative cells of the grandparents, because the fetal cells also developed from the parental zygotes, not from their somatic cells. Once death occurs, the atoms of which the body is made - fall apart into independent entities, but the person's past deeds leave behind accessible information about his unique life, which already began in the program of his zygote, and still exists in his informational legacy or in the social memory of individual life. Now etymologically "information" means the act of informing (from Latin informare – to form or transform) and the action of giving the form to the being, thus realizing its natural chance and development. The understanding of information only requires measure, similarly to the mass and energy, e.g. example a centimeter of a meter or a second of an hour. The smallest unit of information describing all possible states of a system is a qubit. Every matter-information-energy being (structure, process) in the universe contains in its cause information, which in the cause-effect feedback is a desired and immediately afterwards created effect what is always accompanied by the creation of entropy, the magnitude of which is also described using qubits. In medicine this allowed to understand the origin of ageing and cancer. Ageing is characterized by a gradual loss of an internal equilibrium and by a lessened ability for self-defense and self-regulation of the system in response to the environment action. It results in an increased of weariness (fatigue), as a measure of entropy, the production of which is always greater than zero.

Philosophy of being enables the verification not only the unity of micro- and macro-cosmos, but first of all the existence of human transcendental verbal world. Presently the whole universe becomes theoretically solved as visible by the capability to detect the information rays coming from any object and moving in any direction not being restricted by obstacles. Dynamicity of life processes means the inner self-regeneration of a subject's life activity and growth potentials, while cyclicity characterizes the ecological and evolutionary processes of environment. Thus each body cell threatened with the end of its metabolism may extend its life in the form of a neoplasm cell by decreasing the production of its own entropy together with the increase of dissipation of information,

mass and energy in the environment, because its total value must be greater than zero. This is why oncology prophylactics and treatment, apart from the ageing of the organism, must take into account other non-cancerous diseases which accompany the neoplastic one. Large fluctuations may destroy cells by the interaction with their surroundings, while small fluctuations may offer the chance of steering every system onto new neoplasm cells in the form of self-organizing to keep the cellular metabolism by dissipating mass, information, and energy in the proximity of the neoplasm. This dissipation becomes a local sign of the beginning of an illness threatening the existence of the whole multi-cellular organism via neo angiogenesis, the widening of blood and lymphatic vessels being a morphological effect of previous biophysical, biochemical and immunological changes. Due to modern technology one may define the most endangered parts of the organism via magnetic resonance with spectroscopy and after the removal or even a reduction of neoplasm tissue the use. Finally, the modern thermodynamic methods found a direct use to determine the characteristic changes of energetic nucleotide genes in cells undergoing carcinogenesis. F. Collins called the nucleotide genetic code the language of God due to its universal reach. Similarly, one may see God's gift in form of the local formulation of the second law of thermodynamics saying that the negative source of entropy generates its positive source! It means that in the universe good always defeats evil. What more, the natural laws work harmoniously without the involvement of humans, who only interpret the universe more or less correctly and may disrupt it locally, but not globally! This is why it's essential to form character of a person through education to not search for personal gain at the cost of human society, but to act according to a personal vision of the world. Already Leonardo da Vinci stated that nature does nothing in excess or with mistakes, while John Paul II added that: "modern man seems to be continually endangered by what is his own creation...Between God and man – although each lives in his own world – there exists a unique mutual bond. In God there is the beginning of all things, in Him their lives the secret, and that creates His glory; it is man's purpose to examine truth via reason, and that is his dignity". The Beginning of Universe is hidden for man due to its informational essence, which as information until formulation of equation $E = mc^2$ has appeared in different forms and names, e.g. Got, Truth, Tao, Jahwe, Buddha, entelechia etc. K.S.Khroutski in editorial as well Dariusz Szkutnik and X.Xu with X.Liu in Discussion Forum described information as "substation form" and Aristotle's substance – hypokeimenon, while the Eastern conception of Nothingness is the ground of being from which the universe comes. The matter and spirit are not two independent entities, because a modern science and philosophy remain in the information field together with matter and energy, called universe (informational spacetime biocosmos) in which exists line from emergence to transcendence, and vice versa [5-7].

Money, Truth and Conscience in Medicine

The truth about the natural cause of cancer, which is commonly defined as all neoplastic diseases, astounds people. The concepts of truth and lies, like good and evil, are used to define the psycho-emotional state of a man. Astonishment is a fact felt by people, it exists just like emotions of friendship or love. Unfortunately, these concepts, until recently, were considered in isolation from the three-fold reality of matter, energy, and information. Everyone knows that certain words can easily lead to loss of friends, a break of friendly relations, and maybe not always a loss of love, but it never leads to the disappearance of remorse. From the time of Sorates, Plato and

Aristoteles the universe was understood as the abstract soul and the matter-energy body of a person, who, through words, can express his psycho-emotional state. Also for decades the formation and causes of cervical cancer have been studied, in order to model all neoplastic diseases (including psychological ones),

Then completing new equation: $E=mc^2$. Through such models, and not only through theoretical considerations, truth can be defined as the existence of each event in a quantum state, from its beginning to its end form. This is so because the beginning of each event belongs to its cause, but at the same time is already part of its effect. The decision about the truthfulness of an event can be in accordance with it, or it can be a lie based on bad conscience. Truth as an informational event resonates with human conscience ($T=C$). The twentieth century has seen the introduction of a dangerous informational illness in people bent on wealth and power, who intimidate and lie to others. It is enough to apply existing law to their cases to end this medical terrorism. It is best to follow accepted authority, which has an influence on the current state of society as its social conscience. Using concepts and words invented by people, and their cybernetic interpretation, one can understand and describe reality [2].

Every human reacts to his own consciousness, to the sounds, signs and words of directly observed material objects and/or to the indirect energetic changes in their material form of existence, creating a psychological or emotional state in a person's mind. This is where moral self-evaluation lies – called human conscience, which, independent of free will, shows the congruency of man's existence with the laws of nature. Each person can express information about his inner human state to the outside, but cannot negate his conscience. Man is endowed with free will, which ensures a good, functioning social life, as long as the eternal laws of nature are followed. Humans do not create these laws, but can only strive to understand them better in order to use them. Luckily, conscience also fulfills gratifying functions, such as the feeling of satisfaction or happiness which comes from performing a good deed, or even from simply differentiating well from evil. In addition to matter and energy information determines not only the organization of the universe, but also is the inextricably linked source of sensory and intellectual cognition, e.g. the prolongation of human lifespan increases the number of neoplastic illnesses as the organism ages. It has also shown the increased need for treatment of the illnesses coexisting with the neoplasms, which lie in the various medical disciplines. This is why oncology must bring back the original idea of holistic medicine, which is what society expects of doctors. Therefore K. Khrutsky demands increased methodological medical procedures on the side of health and not only on the side of predominantly diseases, as is the case today.

Medicine is the most important human domain dealing with theoretical principles how to protect or restore personal health and obligatory putting them into practice. For example cancer cells are foreboding signals on the last human way to die and therefore man should try to treat the carcinogenesis instead to cure only the cancer diseases, because first cancer cell only indicates the insufficiency of organism self-control to exist. As people get older their cells start to "slow down" or become less effective and unable to mount as quick and/or strong any response as a younger person. In oncology a special place is taken by heredity and the upbringing of a person, who, due to his free will, lives according to his own auto teleological scale of

values and rules of social life. The basic regulator of the existence and development of a person runs through selective elimination of individuals least suited to the environment what guarantees the continuous development of the Homo sapiens species. In treating neoplasms doctors use scalpels, lasers, radioactive radiation and even poisons as effective tools, part of which is also language, made up of words, which are understandable by patients and itself is enough when treating information diseases (informatonosis) as necessary factor in all medical prevention and prophylaxis.

Modern philosophy of being promotes the implantation of information into medicine so that everyone could understand the primary significance of own personal life style in the formation of social health along with importance of caring about the environment inhabited by people. The word 'being' denotes the entirety of everything that exists in the essential and/or existential sense, both as the whole of the universe and in the form of any part of it, called a system. Each word has a triple meaning, because it is not only the name of an event (structure or process) proving also its real existence, but first of all must be truth, i.e. identical with the name of each structure or process it describes, since it is sufficient to add small letter "I" to change the noun "word" into the world. For example the expression of the eyes during the conversation testifies the emotional human state and is usually the first reaction to information sent by another person and may reveal true personal feelings and opinions. One sight speaks more about reality than thousands words do, because the eye sees the forms of things, consisted of many visible and detailed features. Vision therefore does not perceive any single feature, because it perceives any feature and while perceiving visible forms that have a greater number of detailed features. It is obvious that it is impossible to see only one trait in isolation from other traits. Always in the form visible to the senses, more features are gathered simultaneously. At the same time, perception always sees many detailed features, which are distinguished in the imagination with the help of discriminating ability. Also colored things not exist without light, which propagates only in a transparent body. Therefore, it can be unequivocally stated that in addition to light radiation the process of visual perception of physical reality distinguishes some kind of cognitive aspect in the relation of the subject to the object as well as the subject to the subject.

Conclusions

The essence and existence of information rays and pattern was proved by experimental documentation of sight's nature as third integrated part of reality which can be revealed by intellectual observations. It is sufficient to look at portrait of man as real two-dimensional object from three different positions: en face and using the same distance from both sides of portrait, doing simultaneously three photographs from perspective of observer's localization. The same result can be seen using the mirror at which everybody is looking every day. Visible (mirror) picture appears only thanks to resonating informational field ("pattern information") in place of observer (or its apparatus) localization, wherein the information rays coming from real object and from eyes meet together and have the identical value of their unique waves. Information is transparent (therefore for man hidden!) in each cosmic part and emerges under appropriate conditions rather than as the elements of the object, because it exists in any object among its elements as not visible but potential attribute. The eye sees the forms of things, consisted of many visible and detailed features. Just as there is no size without shape and shape is not without a position, vision therefore does

not perceive any single feature, because it perceives any feature and while perceiving visible forms that have a greater number of detailed features. It is impossible to see only one trait in isolation from other traits. Always in the form visible to the senses, more features are gathered simultaneously, because perception always sees many detailed features, which are distinguished only in the imagination with the help of discriminating ability. Therefore, it can be unequivocally stated that in the process of visual perception of physical reality in addition to light radiation, it has distinguish some kind of cognitive aspect of the visual radiation manifested in the structures of reality in the relation of the subject to the object as well as the subject to the subject. The interpretation of the same statement by several people result from the fact that each of person has their own life experience influencing the way of thinking and understanding speech and the message itself can be done in completely different situations using speech, mimicry, and voice intonation. Now the interpersonal communication we have perceive in the categories of information feedback ($E=mc^2$) as an exchange of verbal, vocal and non-verbal signals (symbols) in a given situational context in order to achieve a better level of cooperation. However, information for research purposes can be separated from the material-energy wave of light composed of photons. In the prolongation of the light rays the visual beams, precisely the informative rays follow in every place of space and by resonance with analogous information waves, create an informgraph of the original object. This phenomenon of resonance is commonly used in imaging the internal state of the body by means of nuclear magnetic resonance, where the electromagnetic field leads to technically resonant only atoms of selected elements, and their behavior can detect cancer and the place of their potential self-organization and, as a result, the onset of cancer. Similarly, the whole person resonates to an even single word, if he understands it and wants to know how much he can use the information he carries.

Man sees his informative character in the mirror as he can literally see black holes in space and record their rise or disappearance. In the life of a man towards a large scope, the notion of “look” belongs to these information definitions, whose understanding always depends on their personal acceptance (*Fides*=*Ratio*, *Yin*=*Yang*, input=*output*). Therefore scientists urgently need the appearance of the institutions that are based on the self-actualization principle, and which possess the potential to contribute essentially and significantly to the actual process of raising awareness and management of the given great becoming of the new age of rationality. Precisely this was the goal of electronic World Congress “Biocosmology and Cancer” in Cracow 2017 with the initiative of originating the *World Information University* (WIU) with its motto: **Do not be afraid of Truth, and Do Telic Good!** and formula: $E=mc^2$, wherein “i” has basically the meaning of *Telic* Aristotelian Information, which relates essentially to the naturalist (*telic*) notions of *Hyle*, *Morphe*, and *Entelecheia*, while fundamentals for *methodology* are the principle of *auto-teleology* of John Paul II, and, recognizing the Triadological essence of rational knowledge (see the explanation at the BCA-site – <http://en.biocosmology.ru/>). The Integrative methodology synthesizes both poles of the Dualist Platonian and Cartesian mathematical physicalism and the Organicist Aristotelian teleological physics, as rational (scholarly) approaches. In expressing admiration and in offering encouragement to pioneers of scientific research, to whom humanity owes so much of its current development, John Paul II urged them to continue their efforts without ever abandoning the *sapiential* horizon within which scientific and technological achievements are wedded to the philosophical and ethical values

which are the distinctive and indelible mark of the human person. He was profoundly convinced that faith and reason “mutually support each other”; each influences the other, as they offer to people a purifying critique and a stimulus to pursue the search for deeper understanding, to lead people to discover both their capacity to know the truth and their yearning for the ultimate and definitive meaning of life. He appealed also to philosophers to explore more comprehensively the dimensions of the true, the good and the beautiful.

Biocosmos as the informational spacetime being is a triune living universe understood by a mankind as a spontaneous mutual exchange of matter, information and energy between elementary its particles repeatedly affecting reaction of environment favorably to overcome deficits of the analytical philosophy science. In this, exploring the contemporary naturalism Xiaoting Liu, Rameshwar Adhikari and Konstantin S. Khroutski from the Biocosmological Association (<http://en.biocosmology.ru>) stated that modern naturalism has a variety of connotations in various contexts, but they primarily mean its ancient Greek (Aristotelian) significance. At the same time, another approaches are also worthy of attention, for instance, concerning the bio- and ethnic-diversity to contribute to the effective approaches (to) and realization of the actual forms of new integralist age of micro- and macro-cosmos, but first of all the existence of human transcendental verbal world (ideas) expressed as an informational resonance feedback: input=*output* (see:video-document of biocosmological congress (<http://tiny.pl/gnzdk-lectures>) Konstantin S. Khroutski, Rudolf Klimek, Karl Kratky, Xiaoting Liu, Josef Bremer, Peter Hisser, Walter Kofler, Joseph G. Schenker, Piotr Karocki). For example carcinogenesis is a slow and lengthy process before the natural self-organization of cancer occurs, which breaks away from the pernicious multicellular environment, and already in a new form (of cancer) is the first signal for activating systemic repair and defense mechanisms. Self-organization do dissipative cells to extend their cellular forms of life makes it easier to understand the difference between emerging and cancer caused by diseases that the public knows only of course for their last stage without understanding the patients’ own leading role in carcinogenesis. Matter and energy are just two aspects of the threefold informational essence of the reality, what only man can describe using his senses and knowledge [$E = mc^2$]. Man for centuries did not take into account the possibility of penetration even through opaque objects newly discovered gravitational and finally informational rays in the whole space. In the relation of the subject to the object as well as the subject to the subject the sight, light, color and form themselves are not only the subjective “perception” or “cognition”, but first of all the original form of the information feedback in a given situational context in order to achieve a better level of human cooperation. Information has a significant impact on the lives and health of people already in the unique intrauterine human development stage, later in his upbringing, education, and finally, in regard to their own existence in society. A special gift is pregnancy, not only due to the biological transmission of the cells of the human life, but also due to the support of the psycho-emotional health of the family, which takes place in optimum condition of the woman’s health. Procreation provides the emergence of the family as the most valuable supporting structure in the existence of the species, and therefore the primary task of the spouses is to ensure the birth at least of two children. Man consciously may limit procreation, which in many cases has already led to the real threat of denationalization of most developed societies.

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