

$E=^i mc^2$ and $M|E|I$ - New Spacetime Equivalence Principles

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ABSTRACT

Keywords: $E=^i mc^2$, $M|E|I$; Information Rays; Mass; Dissipation; Cancers; Spacetime

Mini Review

M. Vopson formulated a new hypothesis proposing that a bit of information is not only physical as already demonstrated, but also it carries a finite non-zero mass while it stores information and that all cosmic elementary particles store information about themselves, similar to the way humans have DNA. He had established that the entropy in information systems remains constant or decreases as second law of information dynamics and information as the fundamental building block of the universe makes up almost a third of the universe, what he calls the mass-energy-information equivalence principle $M/E/I$. Also, information is a distinct fifth state form of matter along the other four observable solid, liquid, gas, and plasma states of matter. Although the proposed theory has speculative aspects and gaps, his work will stimulate further theoretical and experimental research in the Universe [1]. He proposed a radical new idea that could explain the nature of the Universe without relation to our references [2-7] So, together with professor of biology W. KOROHODA we wrote to Him that XXI century started with the domination of information, which turns the focus upon the meaning of the moral-ethic dimension of every person to live and work according to her/his auto teleological principle of compatibility between deeds and socially acceptable human values.

The universe is a self-realizing informational spacetime, whose quintessence is the informational interchange of mass and energy among directly or indirectly visible its particles. Information means both the act of informing and the action of giving the form to the being, which denotes the entirety of everything that exists in the essential or/and existential sense, identifiable both as the whole of the universe or as the quantum form of any it's part. The law of quantum feedback equivalence of information, mass and energy: $E =^i mc^2$ denotes mass and energy as quantity equal and at the same time the equation raised to the power of information ($=^i$) defines the information's part of world reality. Therefore, 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. The steady growth of diseases worldwide can be returned to the natural beginning of a man's individual life when the concept of matter will be replaced with information, to which energy and mass belong in each separate part (being) and integrates it with the environment beyond the limits of the observed selected parts of the human body (e.g., PET/CT, fMRI). The Nuclear Magnetic Resonance Imaging method involves atom nuclei's excitation and analyzes how these nuclei recover to the original equilibrium. A mirrored hu-

man picture appears thanks to resonating informational field ("pattern information"), wherein the information rays coming from a real object and from eyes (sight's rays) meet together and resonance due to having the identical value of their unique character.

The emergent structure is hard to predict because the number of interactions between the system components increases exponentially with the number of members, thus allowing for many new types of behavior to fix structures or behaviors, allowing local variations to grow into global patterns. The process of creating information requires work externally applied to modify the physical system and to create a bit of information, while the process of erasing a bit of information generates heat /energy released to the environment. Once a bit of information is created, in the absence of any external perturbations, it can stay like this indefinitely without any energy dissipation. Erasing the information requires input external work and the mass mbit is converted back into energy / heat. Furthermore, the information depends on the temperature at which the information bit exists, while no information can exist at zero absolute. Within the concept of M. Vopson each elementary particle must have an associated bit of information with it, so all the baryonic matter in the visible Universe would require a huge amount of information associated to it.

Philosophy of cosmic being $E=mc^2$ promotes the information rays and patterns so that everyone could understand the primary significance of own and social health along with importance of caring about the world inhabited by people. Each person has the life experience influencing the way of thinking and understanding speech and the message itself can be done in completely different situations. Even the posture of the body expressed during the conversation expresses our

attitude towards the other person. The whole person resonates to an even single word, if he understands it and wants to how much he can use the information he carries. The prolongation of invisible rays of information on the principle of just resonance creates an informational image of the original object (e.g. portrait) without the participation of its atoms, that is an information determines not only the organization of the universe, but also a source of sensory and intellectual cognition. Both these categories are inextricably linked. Information has been equated to the quantum equivalence of mass and energy, expressed through the feedback equation $E = mc^2$

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