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An attempt to find out the major elements of matter and energy using the knowledge of new axioms and laws

Valentina Markova

Bulgarian Academy of Sciences, Bulgaria

The present study uses an expanded field theory that has two new axioms and eight laws. It was described from previous author's work and changes the classic field theory to a more general theory. It is known that Maxwell's laws (1864) are based on a single axiom which states that the movement in a closed loop leads to even movement (with constant speed) of a vector E : $\text{div rot } E=0$. The author replaces this axiom with a new one, according to the movement in an open loop or vortex leads to uneven movement (with variable speed) of a vector E : $\text{div rot } E \neq 0$ or $\text{div } V$ or $E \neq 0$. Later on another axiom was created and eight new laws were generated which lead to the following results: The movement in a closed loop is replaced with movement in an open loop (vortex) and even movement is replaced with uneven movement that can be decelerating or accelerating; in 2D there is a cross vortex and in 3D there is a longitudinal vortex; decelerating vortices emit free cross vortices; accelerating vortices suck in the free cross vortices; the cross vortex in 2D is transformed to a longitudinal vortex in 3D through a special transformation $\Delta 1$ and the longitudinal vortices in 3D is transformed to a cross vortex in 2D through another special transformation $\Delta 2$ and so on. Cross vortices are visible to an external observer because they reflect the sun's rays. Cross vortices can form two kinds' vortices: a vortex that is generated by primary free-standing cross vortices that is a generic type and the vortex that is formed by the resultant velocity vector and plays a role as a consumer. Each of these may be accelerating or decelerating. These are prototypes of material creations. Longitudinal vortices are invisible to an outside observer because they do not reflect and diffract the sun's rays. The longitudinal vortices can form two types' bundles: bundle in which the fastest vortex is in the center and forms a gravitational suction funnel and the bundle in which the fastest vortex is at the periphery and forms a gravitational repellent funnel. These are prototypes of energy creations.

Recent Publications:

1. Markova V (2017) Modeling of gravitational waves by creating a system of paired cross vortices: some properties, conclusions and applications. IOSR Journal of Applied Physics. 9(5):25-32. Doi:10.9790/4861-0905032532.

Biography

Valentina Markova pursued her PhD from the Science Institute at the Ministry of Defense and Postdoctoral studies from Bulgarian Academy of Sciences, Institute of Mathematics and Informatics of Bulgarian Academy of Sciences, Bulgaria respectively. She is a Mathematician, a specialist in algebraic encoding and decoding of the information. She has more than 20 reports published in scientific journals and has presented her work at several international conferences. Her research interest include: the new axioms and laws, gravity and major differences between matter and energy.

i.b.r.dr_vm@mail.com

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