

# The principles of generating the vector potential of magnetic and electric fields (VP MEF) and fixing the variations of the VP MEF in teal time

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The development of quantum-mechanical resonance approaches [1,2,3] allows to substantiate the New Paradigm of Natural Science, which generates the System Physical Picture of the Anthrop - Anisotropic Imbalance Multiverse. At the same time, the consideration is based on the presence of a 4D stream of VP MEF, which permeates the Universe from the Galactic to the subnucleon levels and forms all material entities observed in our 3D Space, with the arrow of Time, from neutrinos to Galactic clusters.

Quasiparticles **byuons**, - carriers of the VP MEF, which has the dimension of **action**, propagate along closed one-sided non-orientable surfaces homeomorphic to a circle. When a 4D flow of nondispersive byuons is transformed into a flow over a surface like a 3D Klein bottle, which has an observed self-intersection, in the form of a Laval nozzle, one of the 4 coordinates is transformed into a hypercoordinate, anthropically perceived as the Time.

Primary **quadratically nonlinear** (Newtonian - gravitational, although it is possible to consider another, not  $\sim \frac{1}{r^2}$ , interaction) and the resonant interaction of byuons occurs at distances equivalent to the Planck size  $\sim 10^{-34}$  cm. In the case of the formation of a flat stable complex of at least two byuons, in full accordance with the ideas of Faraday and Maxwell, according to the formula  $\vec{H} = [\vec{V} \vec{A}]$ , a Magnetic Field (MF) is initially born. To describe this new object, it is necessary to increase the dimension of the interaction space by one and bring the dimension to 3 in accordance with the geometry requirements, since the MF accessible to observation is perpendicular to the plane of interaction of the carriers of the VP, which, in essence, generate an entity perceived as MF.

Further, it becomes possible to form the observed objects in accordance with the Hyperbolic Analogue of the Electric and Magnetic Fields (GAEMF), discovered by D.G. Pavlov [4,3]. A bunch of primary objects formed by the resonant fluxes of the VP MEF occurs due to the interaction of primary magnetic forces. The obtained 3D toroidal objects, in turn, in accordance with GAEMF, are combined into structures that accumulate and carry the energy of the MF in the form of closed "on themselves", not considered in modern natural science, objects - Buonno Finsler Toroidal Structures (BFTS) and Buonno Finsler Crystals (BFC) [4,5,3]. Here, in a space with characteristic linear dimensions from  $10^{-34}$  sm to macro-dimensions, characteristic of condensed bodies around us, as researchers, a set of energy minima arises, in which quasi-mass objects can be formed, which can be attributed to the elements that make up ether and microleptons [16,8,17]. The elements that make up these objects are linked by magnetic forces and magnetic field gradients. By analogy with ordinary bodies, which can be decomposed into elements in gradients of electric fields ( $\text{NaCl} \leftrightarrow \text{Na}^+ + \text{Cl}^-$ ), these objects are decomposed in gradients of Magnetic Fields and gradients of VP MEF [8,2].

It is this kind of objects that manifest themselves as "strange" radiation, which is observed by researchers studying, among other things, low-energy transmutation of chemical elements [6]. "Strange" objects accumulate in condensed media (in water) and can be ejected by media as a result of initiation, for example, low-intensity laser radiation [7]. Stable elementary particles - neutrinos, photons, protons, electrons, resonances of different lifetimes, atoms and so on [2,8,3] can be **constructed** in various ways. BFTS are becoming integral elements of the structures being formed [3]. Manifestations of Finsler's geometry and the presence of toroidal structures are also recorded on larger scales, up to the Metagalactic.

Considering the **practice** of discovering and researching Parallel Worlds [9], we can talk about the completeness of the primary construction of the picture of the 4-dimensional Anisotropic Imbalance Multiverse in accordance with the New Paradigm of Natural Science.

The presence of the initial one-dimensional flow of the VP MEP, which propagates along one-sided non-orientable surfaces, homeomorphic to a two-dimensional circle, with an increase in dimensionality at each step of designing the required object, makes it possible to understand, reproduce, and develop A.V. Vachaeva-N.I. Ivanov [10]; Monoharana et al. [11]; Puthoff and Targ [12]; V.S. Grebennikov [13]; Vysotskiy V.I., Kornilova A.A. [14]; Filimonenko I.S. [15]; J. Hutchison and other researchers.

Due to the fact that the primary - the Universal flow of the VP MEP carries enormous energies ( $1.9 \cdot 10^{11}$  gaus·sm), it is possible, using fairly simple devices, to register the variability of these energy flows in real Time using fairly simple equipment. Namely: Procedures for accurate weighing of bodies containing magnetic elements (compass, for example) and asymmetric torsional balance of high sensitivity [3,18].

In general, even now we can talk about **practices** related to: 1) Achievement of intra-nucleon energies by orders of magnitude superior to nuclear ones; 2) Devices for movement in space and time, fundamentally different from those used; 3) Communication systems based on a different ideology and not limited to the generation and propagation of Maxwell-Hertz radio waves; 4) Methods of processing condensed materials; 5) By influencing biological objects at the level of membrane-cellular, mitochondrial-energy and mediator processes.

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