

On the necessity of nonlinear approach to everything alive and everything dynamic

Abstract

As said in previous article, we need nonlinear mathematical equations to describe the effect of electromagnetic fields on living beings (humans, animals, and plants) because their bodies are nonhomogeneous media of organs made of different tissue-specific cells. However, not only the living beings, all inhomogeneous media are described with nonlinear equations because the inhomogeneities create gradients and turbulence in the wave propagation. Almost all media around us are inhomogeneous because: 1/ crystals are not perfect and the crystal defects will be inhomogeneities creating gradients and turbulence in the wave propagation; 2/ all liquids are inhomogeneous mixture of pieces of not totally melted imperfect crystals imbedded in a liquid phase. If so, we need nonlinear equations to describe the whole world around us – linear approximation works only in a few happy exceptions. Since all inhomogeneous media require nonlinear mathematical description, this article offers nonlinear analog of the Maxwell equations to describe the nonlinear electromagnetic fields (NEMFs) propagating in inhomogeneous media.

Keywords: nonlinear analog to Maxwell equations, real media are nonhomogeneous, nonhomogeneous media require nonlinear description

Volume 17 Issue 1 - 2024

Maria Kuman
Holistic Research Institute, USA

Correspondence: Maria Kuman, Holistic Research Institute, Knoxville, USA, Email holisticare@mariakuman.com

Received: February 05, 2024 | **Published:** February 22, 2024

Studies of the Biofield (Seen as Aura) reveals necessity to deal with nonlinear fields

I was instinctively driven to study the biofield (seen as aura) and I devoted to it most of my life – it was my fun project. I started with photographing the aura with Kirlian photography, which uses high frequency electric field to multiply the photons of the weak aura and make it photographable (Figure 1).¹ I found that the biofield (aura) is emotionally sensitive – it shines brighter at positive emotions and it is dimmer at negative emotions. Since we say we are in high Spirit when we experience positive emotions and we say we are in low Spirit when we experience negative motions, I concluded that the aura must be our Spirit.



Figure 1 Kirlian photography of author's aura in 1991.

Then I found that the ancient Jewish Cabala was teaching to high priest that the aura is our Spirit. This gave me the assurance that my conclusion that the aura is our Spirit was right. Since the aura (Spirit) is emotional and emotional response is measured in the Subconscious during deep sleep when the Conscious is not active, obviously the Creator put everything related to the emotional Spirit (which comes from the Creator and makes us emotional) in the Subconscious to give us freedom of choice - to believe the Creator exists or not.²

Since the Spirit is in the Subconscious, we are not consciously aware of its presence in the body. As a result, we developed science and medicine, which claim that we are only a material body. Look at a dead body after the Spirit has left. Is this what we believe we are? Obviously, beside the material body, we have Spirit in the Subconscious, which brings life to the body, and being emotional, makes us emotional. Since hypnotists found that hypnotized people with sleeping Conscious calculate at least 10,000 times faster, obviously we have a supercomputer in the Subconscious, which operates with the waves of the emotional Spirit, i.e. a Quantum Computer.³

My long-term studies of the aura revealed that the aura (Spirit) is nonlinear electromagnetic field (NEMF) with a chain of alternating vortices (spinning clockwise and sucking energy) and anti-vortices (spinning counterclockwise and emitting energy) along the backbone (Fig.1). Ancient texts say that the Creator created everything in His image. Our Sun (and the rest of the stars) have two chains of alternating vortices and anti-vortices running parallel to the equator and spinning in opposite directions in the northern and southern hemispheres (Figure 2). Supposedly, the Creator has NEMF like this.

If males and females have only one chain of alternating vortices (spinning clockwise) and anti-vortices (spinning counterclockwise), called chakras (Figure 2), I think that the Spirit of the androgynous Creator (which was NEMF just like the NEMF of the stars (Figure 2) - the stars were created in Creator's image), was split through the equator into two to create the male and female Spirits. From the northern hemisphere the male Spirit was created and from the

southern hemisphere the female Spirit was created. This means that our Spirits are templates (pieces) of the Hologram of the Creator. (The holograms are tri-dimensional images created with laser light - they have the following very interesting feature: up to one half a hologram can be cut off and the hologram will still be a whole piece).

The whole aura spins. The Russian scientist Shkatov patented equipment that allows him to measure the spinning of the aura (he didn't know that the aura is the Spirit). He found that positive emotions make the aura spin clockwise. Since nonlinear physics teaches that vortices spin clockwise and suck energy, this explains why the aura is brighter at positive emotions – it sucks energy in¹. However, since the aura is NEMF, there should be reservoir of NEMF energy, from which the clockwise spinning man's aura NEMF (Figure 2) sucks energy at positive emotions to become brighter.

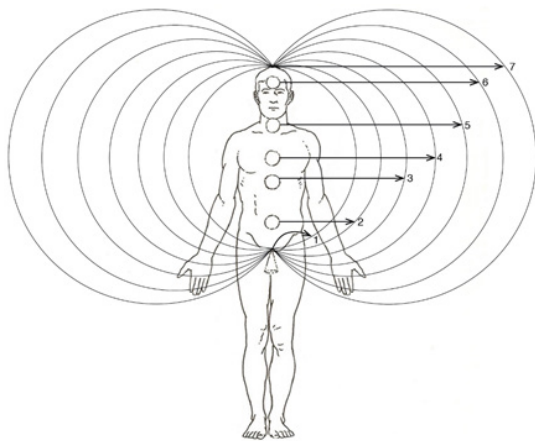


Figure 2 Man's aura NEMF with its alternating vortices and anti-vortices along the backbone and their corresponding energy levels.

The Universe was created from the space matrix NEMF

The Space Matrix NEMF, from which the Universe was created, must be this reservoir of NEMF energy because nonlinear fields do not dissipate and can imprint information. If so, NEMF is the perfect material to create a Universe. The Creator created a space of this nonlinear not dissipating NEMF, then He imprinted on it the holographic (three-dimensional) image of the Universe to be, and the Universe was created (Figure 3).⁴

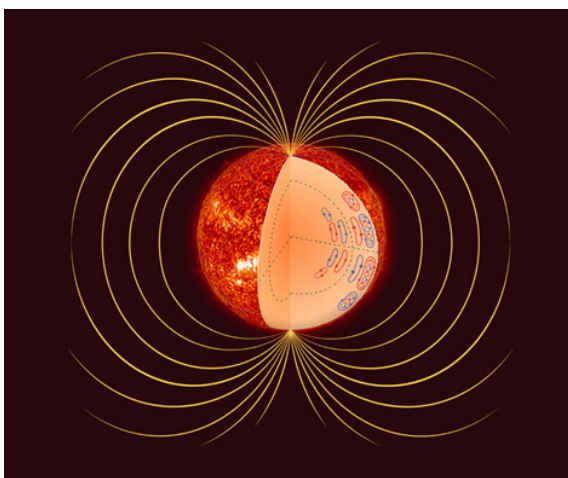


Figure 3 The nonlinear electromagnetic field of the Sun.

The Nonlinear nature of the space matrix allows particles to be entangled

The existence of this NEMF media allows particles to communicate at very large distances. Einstein called it “spooky action at a distance” because basic postulate in his relativistic theories was that the Space Matrix is vacuum, which wouldn't allow such distant interaction.^{5,6} In 2022, Alain Aspect, John Clauser, and Anton Zeilinger took the Nobel Prize in Physics for their research on entanglement of particles. Chinese experiments also found that particles can communicate or get entangled even when one of the particles is on satellite orbiting the Earth and the other particle is on the Earth.⁷

The Maxwell equations for linear EMF (LEMF)

The Maxwell equations for electromagnetic field (LEMF) propagating in homogeneous media can be written in the following very symmetric form.⁸

$$\text{rot } E = i\omega\mu\mu_0 H \quad (1)$$

$$\text{rot } H = i\omega\mu\mu_0 E, \quad (2)$$

where ε is electric permittivity, ε_0 – electric permittivity in vacuum, μ - magnetic permeability, μ_0 – magnetic permeability in vacuum, E – intensity of electric field, H – intensity of magnetic field, $\omega = 2\pi\nu$ (ν - frequency).

Mathematical equations for nonlinear EMF (NEMF)

When electromagnetic field propagates in inhomogeneous media, the field becomes nonlinear because media's inhomogeneities create field gradients ∇E and ∇H and turbulence. This nonlinear electromagnetic field (NEMF) can be described only with nonlinear mathematical equations, which can be written in the symmetric forms (1') and (2'). Both equations reflect the fact that the nonlinear electromagnetic field is a result of spinning clockwise vortex of electric energy

$$\text{rot}(E + (\nabla E)^2) = i\omega\mu(H + (\nabla H)^2) \quad (1')$$

on top of counterclockwise spinning anti-vortex of magnetic energy described as

$$\text{rot}(H + (\nabla H)^2) = i\omega\varepsilon(E + (\nabla E)^2) \quad (2')$$

where ε is electric permittivity, μ - magnetic permeability, E – intensity of electric field, H – intensity of magnetic field, $\omega = 2\pi\nu$ (ν - frequency), $\mu_0 = \varepsilon_0 = 1$.

One can see that when the nonlinear terms $(\nabla E)^2$ and $(\nabla H)^2$ are neglected the equation (1') and (2') transform into the Maxwell equations (1) and (2).

The success of the KPZ nonlinear mathematical model

The Kardar-Parisi-Zhang nonlinear mathematical model turn out to be universally applicable to all condensates in dynamic nonequilibrium state. At the roots of this success is the fact that all dynamic events are successfully described only with nonlinear equations and Kardar-Parisi-Zhang mathematical model is a nonlinear differential equation. The model proved to be successfully applicable to a wide range of events: growing bacterial colonies, growing crystals, aggregating colloidal clusters, the dynamics of burning regions of forest or grassland, even the dynamics of eroded by acid

rain statues, etc.⁹ Everything material is a material body and nonlinear electromagnetic field (NEMF),¹⁰ which automatically explains why the particles sometime behave like waves. If so, by analogy with the Kardar-Parisi-Zhang nonlinear mathematical model for the material half, my article⁹ offers a nonlinear Schrödinger equation to describe the wave component (NEMF) of everything material.

Conclusion

Since everything material is a material body and NEMF [8], the best way to describe the material world is with nonlinear equations. This article explained the success of the Keizer-Parisi-Zhang nonlinear model⁸ and offered nonlinear version of the Maxwell equations.

Acknowledgments

None.

Conflicts of interest

The author declares that they have no conflicts of interest.

Funding

None.

References

1. Kuman M. *Why are we emotional? Why are we craving love?* Health and happiness Books. 2020.
2. Kuman M. *Let there be light.* Health and Happiness Books. 2021.
3. Kuman M. *Glimpse to future science – our quantum computer in the subconscious.* Health and Happiness Books. 2020.
4. Kuman M. *The Mystery of the Universe Creation, v. 2,* Health and Happiness Books, 2020.
5. Kuman M. The spooky action at a distance. *Global Journal of Science Frontier Research (A)*. 2021;21(5).
6. Kuman M. Explaining the unexplainable. Health and Happiness Books. 2020.
7. Kuman M. Explaining the entanglement of particles and the ruled-out locality in quantum mechanics. *MO Journal of Proteomics and Bioinformatics*. 2020;9(4).
8. Kuman M. All condensates in nonequilibrium state are successfully described with the Keizer-Parisi-Zhang nonlinear mathematical model. *Advance Research in Sciences*.
9. Liberal I, Engheta N. How does light behave in a material whose refractive index vanishes. *Physics Today*. 2022;75(3).
10. M. Kuman. How was the Universe created? – origin of Its NEMF. *Open Journal of Mathematical and Theoretical Physics*. 2019;2 (2).