

How was the material world created? Origin of its Nonlinear Electromagnetic Field (NEMF)

Abstract

Based on recent discoveries in astronomy and astrophysics, the article offers a model of creation of the material world and explains the origin of its NEMF, which plays essential role in the dynamic of the whole material world – alive and not alive. The model explains how the stars of a galaxy are born, what is the role of the dark rings at the periphery of the galaxies with limited lifespan, what kind of galaxies merge, and what kind of Black Holes merge. The offered model of creation of the material world, when combined with the information what kind of galaxies merge, takes us naturally to a cyclic Universe, in which the cycle of creation and expansion is followed by a cycle of contraction and destruction of the old disordered Universe, which needs to be sucked back in the Black Hole that created it and recycled, so that a new Universe in perfect order can be created.

Keywords: model of material world creation, origin and role of NEMF, birth of stars, role of galaxy's dark ring, what kind of galaxies merge, expanding and contracting universe, NEMF

Introduction

Let us introduce some concepts of nonlinear physics, which we would need. The flux of running river-water would be linear, if the bottom of the river is smooth. However, if there is a big stone on the bottom of the river, the water needs to flow around the stone and the water flux becomes nonlinear. Behind the stone, turbulence would be observed manifested with a couple of: vortex spinning clockwise and anti-vortex spinning counterclockwise.

Following the law of the folded fingers of the right hand in physics, when the folded fingers show the direction of the currents, the vertical thumb shows the direction of the induced magnetic field. Following this law, the vortices (which spin clockwise) would induce magnetic field toward the surface. This would make the vortices to suck energy in. Following the same law, the anti-vortices (which spin counterclockwise) would induce magnetic field off the surface, which would make the anti-vortices to emit energy.

The black holes at the center of the galaxies are anti-matter

Observational studies of the three-dimensional distribution of dark matter found that the dark matter is concentrated into filamentary structures and that the clusters of galaxies are found at the intersection of those dark filaments. "It seems that the dark matter fuels the growth of these clusters of galaxies."¹

Also, all astronomers and astrophysicist now agree that there is a Black Hole in the middle of each galaxy and there should be a good reason why this Black Hole is there. If dark matter fuels the growth of clusters of galaxies, the dark matter at the center of each galaxy, called Black Hole, must fuel the formation of each galaxy.

It was also found that from the central Black Hole of each galaxy squirt out powerful jets of anti-matter perpendicular to the plane of the galaxy, reaching distances of trillions of kilometers. This means that the Black Holes must be powerful whirlpools of anti-matter because only powerful whirlpools of anti-matter can throw anti-matter jets at such distances.^{2,3}

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Another proof that the Black Hole must be anti-matter is the fact that the stars in a galaxy move away from the Central Black Hole in open trajectories. For this to happen the Black Hole (BH) must be anti-matter creating anti-gravitational field.³ Also, the fact that the stars near the Black Hole are brighter and move faster proves that the Black Hole gave birth of them.

What can we learn from the merging of two black holes?

If the Black Holes are anti-matter, what keeps them from collapsing (annihilating) with the matter around them? Since the Black Holes emit X-rays and radio waves, which are electromagnetic waves, my answer is electromagnetic field must keep them from collapsing. To be specific, the electromagnetic field must be nonlinear (NEMF) because nonlinear fields do not dissipate easily – they may last forever – and this will keep the antimatter from annihilating with the matter.

As we shall see later on, the BH at the center of each galaxy gives birth to the stars of the galaxy and the nonlinear electromagnetic field (NEMF) that separates the anti-matter of the BH from the matter of the created stars get imprinted on all stars. All stars are matter and NEMF and this is true for all material creations – alive and not alive.

If so, the recently observed on Earth waves at merging of two Black Holes billions of miles away must be nonlinear electromagnetic field (NEMF). For comparison, let's go to the micro world and observe the merge (annihilation) of electron (matter spinning clockwise) and positron (anti-matter spinning counterclockwise). They swirl around each other before to annihilate and a gamma quant is emitted. The merging is considered electromagnetic.⁴

When two Black Holes merge, they also swirl around each other before to annihilate and at the merge gamma rays are emitted (just like in the case of merging of electron (matter) and positron (anti-matter). Are the waves generated at merging of two Black Holes gravitational waves, as the creators of the LEGO interferometer announced,⁵ or they are electromagnetic waves?⁴ They must be nonlinear electromagnetic waves to be able to travel trillions of kilometers without dissipation. (The electromagnetic field is thousands of times stronger than the gravitational).

From all said it follows that two Black Holes can merge only if they spin in opposite direction because only then will they crank magnetic fields with opposite polarities and attract each other as two magnets with opposite polarities. If electromagnetic forces are at the basis of the merging of two Black Holes, the waves generated by the merge must be electromagnetic (not gravitational) and they must be nonlinear not to dissipate when traveling such large distances. Also, space matrix need to be present for these waves to propagate.

How are the stars of a galaxy born?

Thus, the field that separates the anti-matter of the Black Hole from annihilating with the surrounding matter must be electromagnetic in origin. To be more specific it must be nonlinear electromagnetic field (NEMF) because only everlasting not-dissipating nonlinear field can keep the matter and anti-matter from annihilating (exploding). As said, the merging of two spinning in opposite direction Black Holes (BH) must also be electromagnetic in origin. Astronomical observation found that each galaxy emits from its center two powerful jets of anti-matter reaching trillions of kilometers afar - up and down the plane of the galaxy. To throw such powerful jets, the Black Hole (BH) at the center of each galaxy must be a powerful whirlpool. In order to throw two such jets up and down the plane of the galaxy, the spinning of the BH must alternate or change to the opposite periodically.

Since the Black hole is a whirlpool of spinning black anti-matter, it must have the shape of vertical hyperboloid cylinder Figure 1. If the BH (antimatter) at the center of each galaxy gives birth to the stars (matter) of the galaxy, there should be another vertical hyperboloid cylinder (whirlpool) of light matter in the middle of the BH Figure 1. The dark and light matter should also be separated with NEMF. To create an outgoing flux of matter the light cylinder must spin as an anti-vortex because only counterclockwise spinning anti-vortices throw energy out Figure 1. However, the flux of light matter must be cut off into quants (portions) to form stars. The cutting requires short periodic alternative switching from counterclockwise (left) spinning (like in an anti-vortex) to clockwise (right) spinning (like in a vortex). Thus, the necessity to cut the flux of light matter into stars leads to alternative switching of the spinning (swirling) of the light hyperbolic cylinder between counterclockwise (left) and short clockwise (right) spinning. The alternating consequent spinning of the light-matter in the hyperbolic cylinder to create stars would give imprint on the NEMF of the stars, which would be like vortex on top of anti-vortex and would result in a torus shape.

When the matter in the light hyperbolic cylinder spins counterclockwise (leftward), the dark anti-matter in the black hyperbolic cylinder around it would spin clockwise (rightward) and vice-versa. The alternative switching of the direction of spinning of the light hyperbolic cylinder (to create stars) leads to alternative switching of the direction of spinning of the dark hyperbolic cylinder (BH), which creates the alternating jets of anti-matter on both sides of the galaxy. When the dark anti-matter of the BH spins counterclockwise (leftward) like an anti-vortex, a jet of dark anti-matter is thrown upward. At that time the light matter in the inner hyperboloid cylinder spins clockwise (rightward) like a vortex and emits some light matter (newly born star) downward and vice-versa. Each birth of a star on one side of the BH is complimented with a jet emission of anti-matter on opposite side of the BH.

The hyperboloid cylinders of matter and anti-matter are separated by NEMF. In our particular case, NEMF separates the matter in

the light hyperboloid cylinder, which makes the stars, from the surrounding it dark hyperboloid cylinder of anti-matter of the BH. A proof that NEMF separates the matter from the anti-matter is the fact that this NEMF gets imprinted on all produced matter - the matter always comes with NEMF. Thus, the NEMF of the stars carries information about how the stars were created - through alternative switches between leftward (anti-vortex) spinning and sort rightward (vortex) spinning. This makes the NEMF of the stars vortex on top of anti-vortex and this shapes the NEMF like a torus (donut). And this is true for everything material (alive and not alive) - everything material (including the elementary particles) is a material body and torus shaped NEMF.

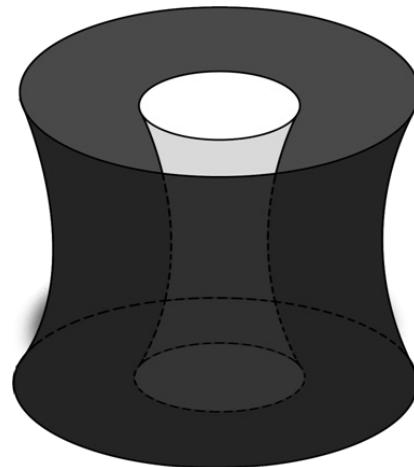


Figure 1 Anatomy of a black hole (BH).

The stars have torus shaped nonlinear electromagnetic fields (NEMFs), including our Sun Figure 2. The planets (including our Earth) also have torus shaped nonlinear electromagnetic fields (NEMFs) Figure 3. All living beings (including Man) also have torus shaped nonlinear electromagnetic fields (NEMFs) (called Spirit because of its field form) Figure 4. This makes everything a material body and NEMF. The NEMFs of the Sun Figure 2 and the Earth Figure 3 have torus shape with active turbulent zone in the equatorial area manifested with two chains of alternating vortices (spinning clockwise) and anti-vortices (spinning counterclockwise) running on both sides of the equator and spinning in opposite direction in the northern and southern hemisphere.

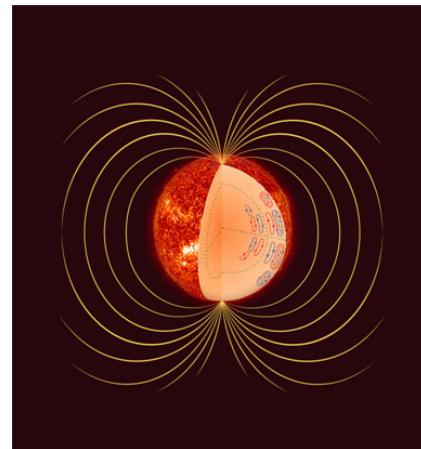


Figure 2 The torus shaped nonlinear electromagnetic field (NEMF) of the Sun.

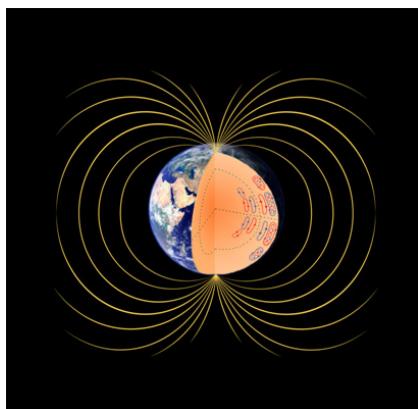


Figure 3 The torus shaped nonlinear electromagnetic field (NEMF) of the Earth.

The human NEMF has the same torus shape, but humans (man on Figure 4) have only one chain of alternating vortices and anti-vortices, which is in the middle of the torus instead of being along the equator Figure 4. What is the reason for it? The stars and planets have androgynous NEMF Figure 2 and Figure 3. Splitting of the genders was obviously like splitting the androgynous NEMF of stars and planets through the equator.

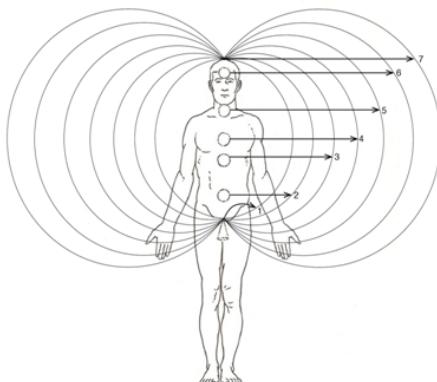


Figure 4 The torus shaped nonlinear electromagnetic field (NEMF) of a man.

If we would cut the NEMF of the Sun or Earth through the equator and name the southern hemisphere male (Yang) and the northern hemisphere female (Yin), each gender would have one chain of alternating vortices and anti-vortices and they would spin in opposite direction in males and females.

Since the androgynous NEMF is self-organized field, after the split along the equator, it reshaped into two toruses. Now each of the genders, males and females, had torus shaped NEMF, but each gender had only one chain of alternating vortices and anti-vortices, which span in opposite direction in males and females, and were in the middle of their torus-shaped NEMF Figure 4.

The dualism particle-wave and body-spirit solved, and many unsolved problems in quantum mechanics explained

If everything material comes to this world as a matter and NEMF, then we should not wonder that elementary particles behave sometimes as particles (matter) and sometimes as waves (NEMF). Our religious teaching says we are body and Spirit. If everything material comes

to this world as a matter and NEMF, then we are a material body and NEMF called Spirit because of its field form.

If the whole material world comes with nonlinear electromagnetic field (NEMF), which being waves can be described only by quantum mechanics, quantum mechanics should apply to the whole material world – matter, living beings, planets, stars, and galaxies.⁶ Also, the quantum structure of water⁷ can be explained only by considering the fact that everything material is a material body and NEMF.

When the ice is melting, only about 1/2 of the H-bonds between the water (H_2O) molecules are torn. So liquid water is ice-clusters swimming in liquid water. Russian scientists found that the size of the water ice-clusters changes in quants. The basic water quant contains of 57 water molecules. However, it is possible to have clusters as big as 912 molecules, which contain 16 ice-cluster quants.⁷ Also, if everything material comes to this world as a matter and NEMF, and then we should not wonder that when we try to measure elementary particles, using quantum mechanics we could only calculate the probability to find the particle somewhere. This is because the elementary particle is influenced by the NEMF of the measuring instrument and by the NEMF of the measuring person.

Also, considering the fact that everything material is a matter and NEMF, we can understand why we cannot know the space location of an elementary particle and its impulse at the same time (Heisenberg's uncertainty principle). The influence of the NEMF of the measuring instrument and the NEMF of the measuring person makes it impossible to know the space location and the impulse of the particle at the same time.

Also, considering the fact that everything material is a matter and NEMF, we could understand the David Bohm finding that Heisenberg's principle does not apply to spin less particles.⁸ The spinning of particles induces magnetic moment. If so, particles that do not spin wouldn't have magnetic moment to interact with the nonlinear electromagnetic fields (NEMFs) of the measuring instrument and the measuring person. As a result, Heisenberg's principle wouldn't apply to spinless particles.

How are clusters of galaxies created?

Observation of galaxy clusters show that each cluster has one galaxy without dark ring and many galaxies with dark rings (at their periphery) moving away from it.⁹ This creates the impression that the galaxy without dark ring is the Galaxy-Creator, which is probably with unlimited life span. Are all created galaxies with dark rings with limited life span? What is the purpose of having this dark ring? How the dark ring limits the life span of the galaxy? Here is our explanation to it. But before this let's see what kind of galaxies merge.

What kind of galaxies merge?

Two million years ago the Sagittarius Dwarf Galaxy merged to our galaxy. Two galaxies would attract each other and merge only if they have opposite magnetic polarity and to have opposite magnetic polarity these galaxies must spin in opposite direction. The Sagittarius Dwarf Galaxy was an old galaxy consisting of old (dwarf) stars that barely shine. Such galaxy must have spun in opposite direction to our galaxy to be attracted to it.

Recently, Giuliano Iorio & Vasily Belokurov¹⁰ from the University of Cambridge, using data of the Gaia Space observatory (built, longed and managed by the European Space Agency) found stars in the Milky

Way, which were slightly off the plane of the galaxy and were moving in opposite direction in elongated orbits. They concluded that these must be stars of another smaller galaxy, which merged to the Milky Way long before the birth of our solar system.

A second independent team lead by Amina Helmi¹¹ worked with the same data and came to the same conclusion. They estimated that the merging of this smaller galaxy to our galaxy has happened about 10 billion years ago. They found that the swallowed galaxy was: smaller, older, with stars moving in direction opposite to the movement of the stars in our galaxy, and their orbits were more elongated. As said, in young galaxies the stars move away from the Black Hole that created them following open orbits, which proves that the Black Hole is anti-matter because only anti-matter can create such anti-gravitational field. Why would the stars in older galaxies move in opposite direction, i.e. toward the Black Hole? There is only one logical explanation to it.

It seems that the galaxies with dark ring have limited lifespan because when a galaxy reaches a half lifespan, and the perfect order in the galaxy is a half-way lost (and the stars are half-way aged), the stars of the galaxy are reaching the dark ring at the periphery of the galaxy. Unable to continue, they start moving backward to the BH. What would be the purpose of such moving back? To be recycled by the BH when they are fully aged. It is to be expected that after reflection from the dark ring, the stars' orbits would not only be reversed, they would become more elongated. In this way, the older galaxies in the second half of their lifespan would have stars moving toward the BH at the center of the galaxy. Such older galaxies with reverse movement of their stars will be attracted and merging to younger and bigger galaxies with stars moving away from the BH because they will have opposite magnetic polarity. We must underline once again that only the older galaxies, which spin in opposite direction (toward the Black Hole) merge to younger galaxies, in which the stars move away from the Black Hole. This is because such galaxies have opposite magnetic polarity and attract each other, as two magnets with opposite polarity would do. After a while, the BHs of the merged galaxies would also merge. What is the purpose of such merging?

The dark ring at the periphery and the limited life span of a galaxy

During the active period of a Black Hole, when it gives birth to stars, the stars move around the BH in open trajectories and as they move their speed decreases and they age. If the stars in some of the galaxies move in opposite direction, this means that when they reached the dark ring at the periphery of the galaxy, their movement was mirror shifted backward toward the BH. Then the galaxy would stop expanding and start contracting. How is this done?

Since the stars are material body and NEMF, reaching of the dark ring sends a shock wave of their NEMF to the BH. The shock wave must arrive at the BH with a phase capable to reverse the stars' repulsion from the BH to attraction. Then the BH will start retrieving the stars back. But for this to happen space matrix needs to be present for the waves to propagate. When an event is triggered by waves, we can expect quantum behavior. This means that the ratio of the radiiuses of different galaxies $R_1: R_2: R_3: \dots$ must be an integer number. Since the size of the BH determines the radius of the galaxy, the ratio of the radiiuses of the BHs $r_1: r_2: r_3: \dots$ must also be an integer number.

Also, we want to draw your attention to the fact that the BH of a galaxy in his active cycle, when it makes stars actively by transforming

dark anti-matter into matter, would look more like a white hole. In the second half of its cycle, when the Black Hole sucks back the old stars to recycle them and turn them back into anti-matter, the BH would look more like a dark (black) hole.

About the cyclic universe

The merging of older galaxies to younger galaxies and the merging of their Black Holes speaks about a cyclic Universe. The Universe cannot expand indefinitely just like the galaxies do not expand indefinitely. The whole material universe immerged from a single Big Black Hole (not through a Big Bang, but through a peaceful creation). When the Universe is old and disordered, it needs to be swallowed back by the same Big Black Hole that created it. The merging of old galaxies to younger galaxies is preparation for this final annihilation of the whole old and disordered Universe, which would be swallowed back by the Big Black Hole of anti-matter that created it and turned into antimatter again. It is done so that after a while a New Universe in perfect order can be created. The cycle of creation and expansion starts when a critical point of contraction of the light matter at the center of the Black Hole is reached.⁵

According to ancient Hindu texts,¹² the light cycle of expansion, when the Big Black Hole creates the material world in perfect order, lasts 4.32 billion years and is called "one day of God Brahma". With time the material world ages and becomes more and more disordered. When the Universe is old and disordered, it needs to be sucked back into the Big Black Hole that created it, and recycled, i.e. turned back into anti-matter. The dark cycle of contraction and destruction of the old and disordered Universe is called in the ancient Hindu texts "one night of God Brahma". It lasts another 4.32 billion years. Thus, during the light cycle of expansion the material Universe is created through transforming of anti-matter into matter. It is followed by a cycle of contraction when the old and disordered material Universe is sucked back by the BH that created it and turned back into anti-matter, so that with time a new Universe in perfect order can be created.

Mathematical model

Since the field involved in the creation of matter is a torsion nonlinear electromagnetic field (NEMF) and the field that remains with the matter is the same torsion NEMF, let us take root of the:

$$\text{Ampere Law: } \mathbf{J} = \mathbf{e}(\mathbf{E} + \mathbf{u} \times \mathbf{H});$$

$$\text{Om Law: } \mathbf{J} = (1/\mu)(\nabla \times \mathbf{H});$$

and use the Faraday Law: $\text{rot } \mathbf{E} = \nabla \times \mathbf{E} = -\partial \mathbf{H} / \partial t$,

(where: \mathbf{J} – electric current, e - electric charge, μ - magnetic susceptibility, \mathbf{E} – electric field, \mathbf{H} – magnetic field, \mathbf{u} – velocity), we are getting the equation:

$$\text{rot } \mathbf{E} + \nabla \times (\mathbf{u} \times \mathbf{H}) = (1/e\mu)(\nabla \times (\nabla \times \mathbf{H})); \text{ or}$$

$$-\partial \mathbf{H} / \partial t + \nabla \times (\mathbf{u} \times \mathbf{H}) = (1/e\mu)\nabla^2 \mathbf{H}, \text{ which permits a traveling velocity wave.}$$

Conclusion

The article provides a proof that the Black Holes are black because they are anti-matter and explains how they give birth to light matter, i.e. the article explains how the Black Hole at the center of each galaxy give birth to the stars of the galaxy. The offered here model of creation of the material world explains why the whole material world

comes hand in hand with NEMF, which later plays important role in the dynamic of matter. The role of the dark ring at the periphery of the galaxies with limited life span was explained, as well as what kind of galaxies merge. The model of creation and the merging of galaxies naturally leads to a model of cyclic Universe, in which the period of creation and expansion is followed by a period of contraction of the disordered old universe, which is sucked back in the Black Hole that have created it and recycled into anti-matter, so that with time a new Universe in perfect order could be created.

Why are we publishing this article about creation in a journal of alternative medicine? It is because alternative medicine (acupuncture and homeopathic remedies) works through the NEMF, which is different in males and females.^{13,7} The offered here model of creation solved one more problem – the Bekenstein – Hawking unexplained origin of the entropy of the Black Hole, which is believed to be based on the quantum entanglement between the inside and outside of the Black Hole.¹⁴ According to our model this is the quantum entanglement between the NEMFs at the border matter - anti-matter inside and outside the Black Hole (Figure 1).

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Conflicts of interest

Author declare that there is no conflict of interest.

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