



## Recent Finding in Astronomy Point to Turbulence and Strong Magnetic Fields (Correct Prediction of Black-Hole Shape)

By Maria Kuman

*Holistic Research Institute*

**Abstract-** The author predicted that the Black Holes must have hyperboloid shape and shortly after the prediction a Black Hole was observed with high resolution and photographed – it had hyperboloid shape. How these kinds of predictions are done is subject to another published article. The author further explained that two galaxies (or two Black Holes) would merge only if they have opposite magnetic polarity, which means they spin in opposite directions. Indeed, old stars were found in the Milky Way, which span in opposite direction, remnants of an old galaxy swallowed 10 billion years ago. This means that the Black Holes and galaxies at the first half of their lifespan (during their active period) spin counterclockwise (like anti-vortices) and produce matter (new stars, which move away from the Black Hole). In the second half of their lifespan, they must spin clockwise (like vortices) to attract and swallow the old stars, thus recycling them. The old stars need to be recycled so that new stars can be created in perfect order. This means that the Universe cannot expand forever - the process of expansion must be followed by a process of contraction. This article explains that all observed merging of Black Holes, galaxies, and galaxy clusters requires opposite magnetic polarities of the mergers. Since the younger ones spin counterclockwise and expand, while the older ones spin clockwise and contracts, the merging is a process of recycling of the old.

**Keywords:** *turbulence in cosmos, merging of Black Holes, merging of galaxies, merging of galaxy clusters, magnetic origin of the merging, opposite spinning of the mergers.*

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# Recent Finding in Astronomy Point to Turbulence and Strong Magnetic Fields (Correct Prediction of Black-Hole Shape)

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## I. 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.

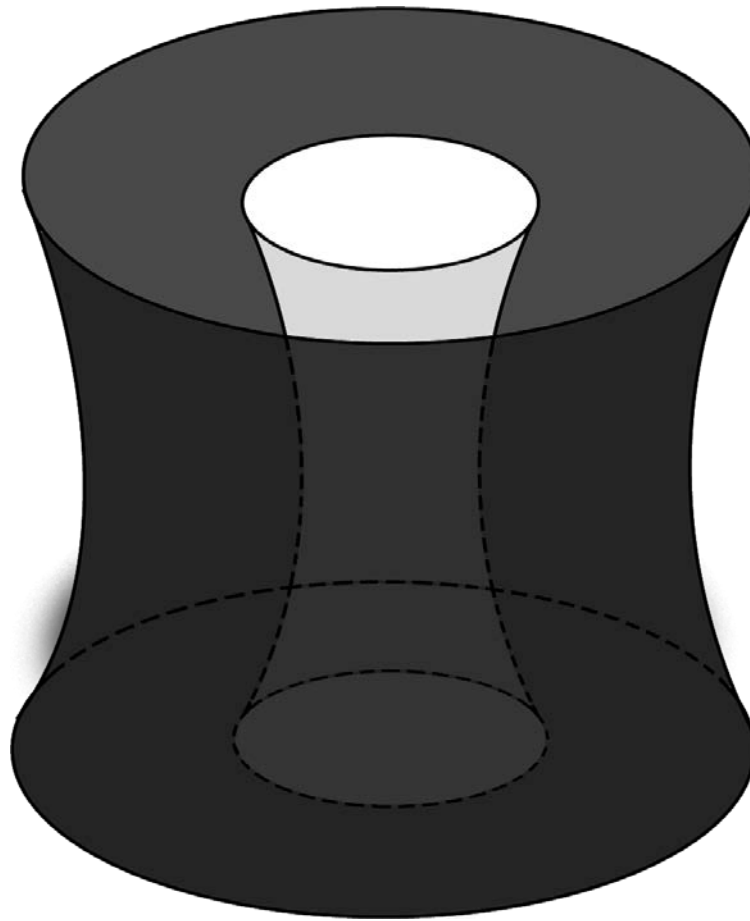
Following the law of the folded fingers of the right hand in physics, when the folded fingers show the direction of the currents (or direction of spinning of plasma), the vertical thumb show the direction of the

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.

## II. THE AUTHOR PREDICTED HYPERBOLOID SHAPE OF THE BLACK HOLES AND SHORTLY AFTER THE PREDICTION SUCH WAS OBSERVED AND PHOTOGRAPHED

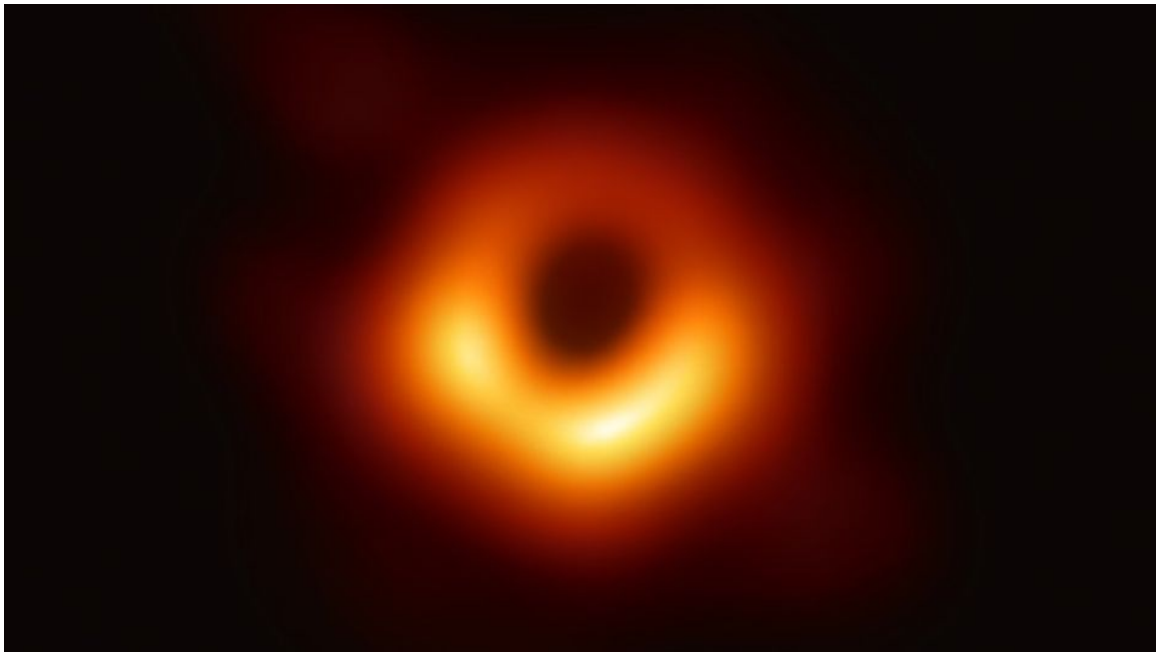
In 2019, I published an article in Open Access Journal of Mathematical and Theoretical Physics – “How Was the Material World Created? Origin of Its Nonlinear Electromagnetic Field (NEMF)” [1]. The article was submitted on February 22 and Posted on March 18, 2019. Fig. 1 presents the picture of the Black Hole, which I have in article [1].

*Author: PhD, Holistic Research Institute, 1414 Barcelona Dr., Knoxville, TN 37923. e-mail: holisticare1@gmail.com*



*Fig. 1:* Anatomy of a Black Hole

On April 10, 2019 (less than a month after the posting of my article) the first photo of a Black Hole was published (see Fig. 2).



*Fig. 2:* Photo of a Black hole first published on April 10, 2019 [2]. One can see the same hyperboloid curvature as the Black Hole, which my mind has seen (Fig.1) (for how the mind see, see [3])

However, as it was explained in [1], the dark-inside Black Hole like the one on the photo on Fig. 2, is a Black Hole in the second half of its lifetime when it is in a retrieving state. It spins clockwise (like a vortex) and retrieves (sucks back) the already old dying stars. The Black Hole on Fig. 1, which is not totally dark inside, is a Black Hole in the first half of its lifetime when it is in a creative cycle. It spins counterclockwise (like an anti-vortex) and gives birth to new stars (for details see [1]). I hope in the future we will also have photos of Black Holes in their active cycle when giving birth to stars and looking like the picture on Fig. 1.

### III. THE NATURE OF THE BLACK HOLES

As explained in [1], since the new stars move away from the Black Hole in open trajectories, the Black Hole must be anti-matter creating anti-gravitational field pushing the stars away from the Black Hole. To create stars, the Black Hole must spin counterclockwise like an anti-vortex because only anti-vortices spinning counterclockwise create outward magnetic field, which can give birth to matter. As explained in [1], the Black Hole at the center of each galaxy squirts out powerful jets of anti-matter perpendicular to the plane of the galaxy. This is another proof that the Black Hole is anti-matter, which must be spinning fast counterclockwise to emit such outward powerful jets, reaching distances of trillions of kilometers. The magnetic field, which the Black Hole generated by this fast spinning, is also very powerful.

### IV. MERGING OF BLACK HOLES

Since the Black Holes in the first half of their lifetimes spin counterclockwise and in the second half of their lifetimes spin clockwise, they will create magnetic fields with opposite polarity and they will attract each other as two magnets with opposite polarities do. Therefore, the recently observed merging of two Black Holes with LEGO [4] must be Black Holes with opposite magnetic polarity, i.e. Black Holes spinning in opposite direction. This means that one of the Black Holes was in the first half of its lifetime and the other one in the second half of her lifetime. Therefore, merging means a younger Black Hole engulfs an old Black Hole.

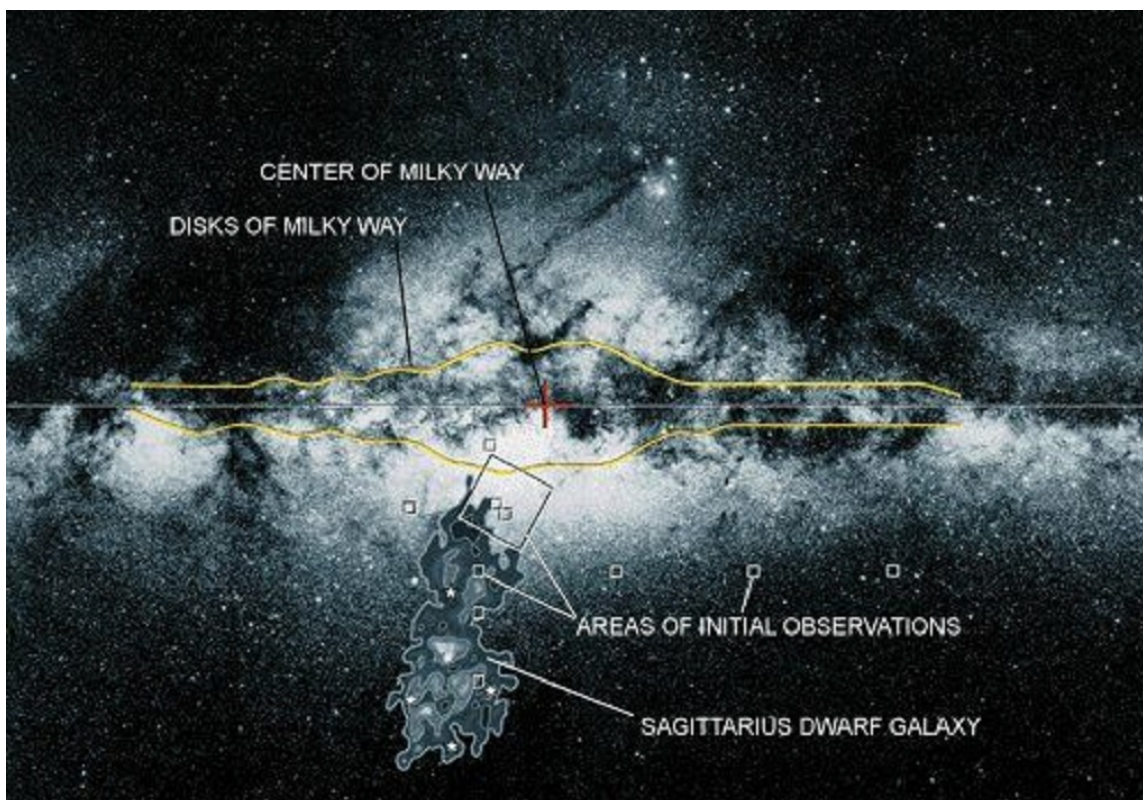
When the magnetic fields of two Black Holes merge, expect electromagnetic waves to be emitted. Therefore, the wave LEGO detects are not gravitational waves, they are electromagnetic waves. These electromagnetic waves must be nonlinear to be able to travel trillions of kilometers without dissipation and there should be a media for them to propagate [1]. Electromagnetic waves must be also observed when galaxies merge and even when galaxy clusters merge.

### V. MERGING OF GALAXIES AND CLUSTERS OF GALAXIES

In [1] it was explained that two galaxies could merge only and only if they have opposite magnetic polarity because they would attract each other as two magnets with opposite polarity do. For this to happen, they must spin in opposite direction. It was also explained that the younger galaxies, which still create stars spin counterclockwise and crank outward magnetic field. The older galaxies spin clockwise and crank inward magnetic field, which retrieve (suck in) the old stars to recycle them [1]. If so, younger galaxies will be engulfing older galaxies. Indeed, our galaxy has engulfed the older Sagittarius Dwarf Galaxy in the past and we can still see its Black Hole with the leftover stars orbiting around the center of our galaxy.







**Fig. 3:** The Black Hole and the leftover stars of the older Sagittarius Dwarf Galaxy, which our galaxy engulfed in the past, is still orbiting around the center of our galaxy. Also, remnants of another older galaxy were found in the Milky Way and its stars were orbiting in opposite direction of ours [5]

The same rule of merging applies to galaxy clusters. Recently, the Low Frequency Array Telescope, which operates in Nederland, detected unobserved radio synchrotron radiation and X-ray emission between two merging galaxy clusters in the filament that connects Abell 0399 and Abell 0401 [6]. Frederica Govoni of the National Institute for Astrophysics in Italy [7] interpreted this synchrotron emission as generated by powerful magnetic fields that extend to very large distances (more than it was thought possible). Govoni said that “they don’t know if the observed phenomenon is common in the cosmic web or not”. I can assure her that, yes, it is a common phenomenon in the cosmic web.

What generates the powerful magnetic fields is fast spinning plasma. Just like in the case of merging Black Holes or galaxies, two galaxy clusters merge only when they create magnetic fields with opposite polarities. This means that a younger galaxy cluster engulfs an older galaxy cluster spinning in opposite direction. Therefore, the merging of Black Holes, galaxies, and galaxy clusters is a process of recycling of the old Black Holes, galaxies, and galaxy clusters. If so, the whole Universe cannot expand indefinitely, contraction should follow the expansion.

## VI. CONCLUSION

The author reported at the APS Conference in Los Angeles, California, in 2018: “Physics Must Emphasize Stronger the Role of Magnetic Fields in the Universe and Man” [8]. This article emphasizes again the important role magnetic fields play in the cosmos and points out to the source of these powerful magnetic fields. The source of these powerful magnetic fields, which play such important role in cosmos, is turbulence – fast spinning plasma.

All interactions in the cosmos: between BH, galaxies, and galaxy clusters are magnetic in origin. They are based on the fact that they spin in opposite directions when they are young and when they are old. The magnetic attraction between the young and old cosmic object is a way to get rid of the old, i.e. it is a recycling process. If so, the Universe cannot expand forever. The process of expansion of the young Universe must be followed by a process of contraction.

Presently, 60% of the galaxies in our Universe are warped. What will happen when 100% of the galaxies are warped? Obviously, the old disordered Universe needs to be recycled, so that a new Universe with perfect order can be created. For this to happen, the Universe needs to start spinning in opposite direction and contracting, thus retrieving back or sucking in everything that was created. The frequent

hurricanes and tornados observed in North America are also turbulence and their fast swirling plasma (the air is electrically charged) cranks magnetic moments.

The author published an article: "What Causes the Multiple Hurricanes and Tornados Influences Our Brain and Health" [9]. America has the highest production and consumption of electrical energy on planet earth. This creates a powerful electromagnetic field (EMF) over the continent. The EMF gradient at the border continent – ocean creates turbulence, which is an array of spinning hurricanes and tornados over the ocean. The fast spinning hurricanes (spinning rings) and tornados (spinning columns) have powerful magnetic dipole moments. The created strong EMF over the land attracts the dipole moments of the hurricanes and tornados created over the ocean, which is like an invitation to the hurricanes and tornados to come to the land.

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