



GLOBAL JOURNAL OF SCIENCE FRONTIER RESEARCH: A
PHYSICS AND SPACE SCIENCE
Volume 18 Issue 4 Version 1.0 Year 2018
Type: Double Blind Peer Reviewed International Research Journal
Publisher: Global Journals
Online ISSN: 2249-4626 & Print ISSN: 0975-5896

Dark Matter May be a Possible Amplifier of Black Hole Formation in the Context of New Functional and Structural Dynamics of the Cosmic Dark Matter Fractal Field Theory (CDMFFT)

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Abstract- It is possible that as the dominate component of our cosmos, dark matter/dark energy, could be a driving force behind black hole(BH) formation at all scales in our universe. There is reason to believe that the extreme density of baryonic matter/gravity that produces stellar formation throughout our universe and its end of life transition explosion seen in supernova produces enough outward pressure it pulls in dark matter/dark energy (DM/DE) into the stellar core. This extreme event seen throughout our universe could conceivably produce enough negative pressure at its core to “suck-in” DM/DE from the other side of the baryonic matter/cosmic dark matter fractal field/interface(BM/CDMFF/I); creating a super massive injection of dark matter derived gravity within the collapsing star core fueling the extreme gravity conditions and the resulting implosion believed to occur in black hole (BH) formation of massive Chandra limit stars of all types. The Cosmic Dark Matter Fractal Field theory as described in the book “The Great Cosmic Sea of Reality” has given science a new paradigm to consider when examining our reality in a very different way.

GJSFR-A Classification: FOR Code: 020199p



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Dark Matter May be a Possible Amplifier of Black Hole Formation in the Context of New Functional and Structural Dynamics of the Cosmic Dark Matter Fractal Field Theory (CDMFFT)

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Year 2018

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Volume XVIII Issue IV Version I
Global Journal of Science Frontier Research (A)

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I. INTRODUCTION

Our reality is indeed illusory when taken into full context as a part of an expanse that sits almost exactly in the middle of a scalar continuum from the Planck scale to the vast visible universe and the super-massive objects known to exist there. Even more illusory when we consider that all of the matter that we can perceive through scientific inspection and even our individual sensory perceptions make up only 4% of our entire cosmos. The presence of dark matter and dark energy accounting for the other 96% leaves quite a void in our pretense to understand the cosmos. However, there are significant clues that lead to clarity when the body of scientific research is considered across multiple disciplines. That is what I have done for most of my professional years as a perpetual student of the sciences and have discovered a common thread that encompasses all forces of nature including the neglected life force. So it is not as an authority on any one subject that I bring this theory forward for your consideration but as a student who has uncovered a concept that keeps answering questions I have pondered for decades.

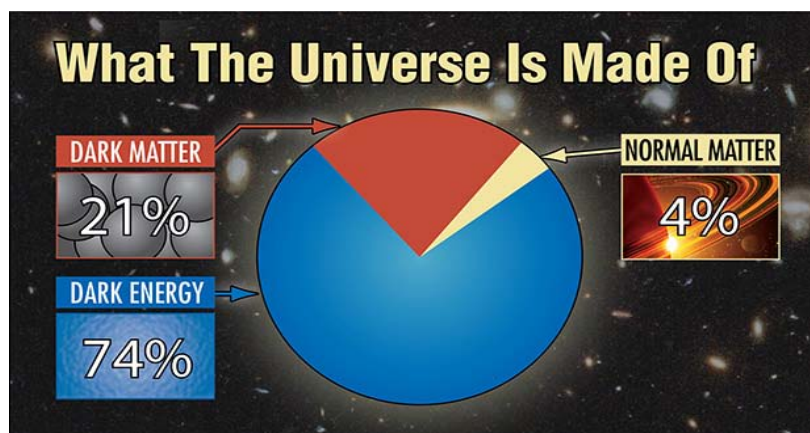


Figure 1

II. BLACK HOLE DYNAMICS

This is a quote from an article from Space.com "Astronomers know of two "flavors" of black holes: "stellar-mass," which are up to a few dozen times the mass of Earth's sun, and "massive," which can be billions of times the sun's mass — nearly the mass of all the stars in the entire Milky Way galaxy. Stellar-mass black holes are known to be the remains of dead stars, but it remains a mystery how the far-more-massive black holes formed. [Photos: Black Holes of the Universe].

There is a relatively new focus in astrophysics and astronomy using the vast array of both land based, space based telescopes and gravity wave detectors in a collaborative network to study BH dynamics in deep space. This announcement from Space.com concerning the detection of gravity waves from the Light Interferometer Gravity Observatory (LIGO) "On Sept. 14, 2015, LIGO made the first-ever direct detection of gravitational waves, more than 100 years after Einstein first predicted them. (The detection was announced in February 2016.) The space-time ripples were coming from two black holes that had been orbiting each other, growing gradually closer and closer together until they finally collided. All five of the black-hole merger events detected by LIGO have involved so-called stellar-mass black holes, which have masses of between about five and 100 times that of Earth's sun." This event gives evidence that the fabric of space-time model given to us by Albert Einstein and the "wave like" bending of space-time action predicted by his theory of General Relativity (GR) has been verified with this new type of cosmic detector/observatory instrument. There are now three of these LIGO installation locations across the globe separated by thousands of miles and on two continents. The two LIGO locations in the United States and the VIRGO installation in Italy act as comparison confirmation of observed data to these cosmic events, as well as, triangulation locators of the event for cosmic navigational positioning of BH's and other supermassive collisions which produce a now measurable splash in what I call "The Great Cosmic Sea of Reality".

Black holes (BH) appear to be the incinerator of baryonic matter (BM) as they sit at the center of all galaxies and exist elsewhere at different scales known as rogue solo black holes (RSBH). The black hole at the center of our galaxy is estimated to be 3 billion solar masses. Our Milky Way galactic center is not the largest of the BH family in our universe any two colliding BH's seem to always produce a larger one. However, there are limits to stellar derived BH's and it is the influx of DM/DE into this process that could solve the mystery as to the massive and supermassive BH's common to galactic centers. This produces extreme density of mass/gravity and larger and larger BH's, therefore producing ever growing extreme gravity along with what is known as an event horizon also known as the

Schwarzschild radius. The Schwarzschild radius is a zone around the BH that is the point of no return once BM crosses this theorized line. The BM will be consumed within the core space-time singularity and according to the CDMFF theory changed to something else that conserves and carries the information contained within into this great vortex of immense energetic gravity and recycled as the memory of morphic fields at the Planck scale at the BM/CDMFF/I of all BH's.

However, the real source of this gravity injection would theoretically be white holes(WH). It is very possible that (WH)'s exist there at the BM/CDMFF/I as well, both are predicted to exist from Einstein's General Relativity Theory (GR). "The possibility of the existence of white holes was put forward by Russian cosmologist Igor Novikov in 1964. White holes are predicted as part of a solution to the Einstein field equations known as the maximally extended version of the Schwarzschild metric" according to Wikipedia. Working in a quantum field dynamic of Planck-foam interconnected black hole/wormholes, these enigmatic (GR) derived organs of Planckian origin, could conceivably create the cyclical flux of the energy/information of baryonic matter (BM) across the baryonic matter/dark matter membrane barrier of two different worlds; while possibly creating the virtual particles required for organic as well as inorganic reality.

See Possible Origin of Virtual Particles:-

https://globaljournals.org/GJSFR_Volume17/1-Possible-Origins-of-Virtual.pdf.

This highly energetic thermodynamic zone seems to exhibit reverse entropy as Planck Virtual Black Holes (PVBH) produce cyclical energy/information as BM is consumed, conserved, and recycled through WH dynamics creating a memory of nature through a feedback loop process I call biomorphic transradiation.

https://globaljournals.org/GJSFR_Volume18/1-Entropy-is-Not-a-One.pdf

The White Hole or Interface?

The CDMFFT predicts that white holes are more like an interface (WH/I) with wormhole dynamics within the foam-like Planck interface as described by the late Prof. Steven Hawking in his work on (BH) dynamics at the Planck scale (October 6, 1994 paper entitled 'Virtual Black Holes').

"It seems that topological fluctuations on the Planck scale should give space-time a foam-like structure. The wormhole scenario and the quantum bubbles picture are two forms this foam might take. They are characterized by very large values of the first and second Betti numbers respectively. I argued that the wormhole picture didn't really fit with what we know

of black holes. On the other hand, pair creation of black holes in a magnetic field or in cosmology is described by instantons with topology $S^2 \times S^2$. This shows that one can interpret $S^2 \times S^2$ topological fluctuations as closed loops of virtual black holes”.

More recently this Black Hole/White Hole /Wormhole model has been given more plausibility from such evidence as seen in this paper:

Hal M. Haggard* and Carlo Rovelli† Aix-Marseille Université and Université de Toulon, CPT-CNRS, Luminy, F-13288 Marseille (Dated: Fourth of July, 2014)

“We show that there is a classical metric satisfying the Einstein equations outside a finite space-time region where matter collapses into a black hole and then emerges from a white hole. We compute this metric explicitly. We show how quantum theory determines the (long) time for the process to happen.

A black hole can thus quantum-tunnel into a white hole. For this to happen, quantum gravity should affect the metric also in a small region outside the horizon: we show that contrary to what is commonly assumed, this is not forbidden by causality or by the semi-classical approximation, because quantum effects can pile up over a long time. This scenario alters radically the discussion on the black hole information puzzle.”

They further state this:

“Surprisingly, we find that such a metric exists: it is an exact solution of the Einstein equations everywhere, including inside the Schwarzschild radius, except for a finite—small, as we shall see—region, surrounding the points where the classical Einstein equations are likely to fail. It describes in-falling and then out-coming matter.”

This seems to be describing a Planck singularity within PVBH's. The zone where classical general relativity and Einstein equations break down and a reverse singularity emerges as does reverse entropy. Furthermore, this is evidence that a cosmic scale BH singularity is the same as a Planck level PVBH singularity. Which makes perfect sense because even the largest object in the universe has a Planck scale. They conclude:

III. RELATION WITH A FULL QUANTUM GRAVITY THEORY

We have constructed the metric of a black hole tunneling into a white hole by using the classical equations outside the quantum region, an order of magnitude estimate for the onset of quantum gravitational phenomena, and some indirect indications on the effects of quantum gravity. This, of course, is not a first principle derivation. For a first principle derivation a full theory of quantum gravity is needed. However, the

metric we have presented poses the problem neatly for a quantum gravity calculation. The problem now can be restricted to the calculation of a quantum transition in a finite portion of space-time. The quantum region that we have determined is bounded by a well defined classical geometry. Given the classical boundary geometry, can we compute the corresponding quantum transition amplitude? Since there is no classical solution that matches the in and out geometries of this region, the calculation is conceptually a rather standard tunneling calculation in quantum mechanics. Indeed, this is precisely the form of the problem that is adapted for a calculation in a theory like covariant loop quantum gravity [26, 27]. The spin-foam formalism is designed for this. Notice that the process to be considered is a process that takes a short time and is bounded in space”.

“Loop quantum gravity (LQG) is a theory of quantum gravity, merging quantum mechanics and general relativity. Its goal unifies gravity in a common theoretical framework with the other three fundamental forces of nature, beginning with relativity and adding quantum features. It competes with string theory that begins with quantum field theory and adds gravity” Also this “In 2014 Carlo Rovelli and Francesca Vidotto proposed that there is a Planck star inside a black hole.^[19] This theory, if correct, would resolve the black hole firewall and black hole information paradox. This idea is based on loop quantum gravity” this definition according to Wikipedia.

It is conceivable from the model of the baryonic matter/cosmic dark matter fractal field/interface that the sudden instantaneous implosion followed by an explosion of a star, when the gravity dynamics produce supernova that a substantial gravity shift might occur. This gigantic energy producing display may internally produce large fluid dynamic motion through this BM/DM zone injecting this mysterious dark matter into the core of the newly formed BH.



THE DMFFT AND THE WHITE HOLE

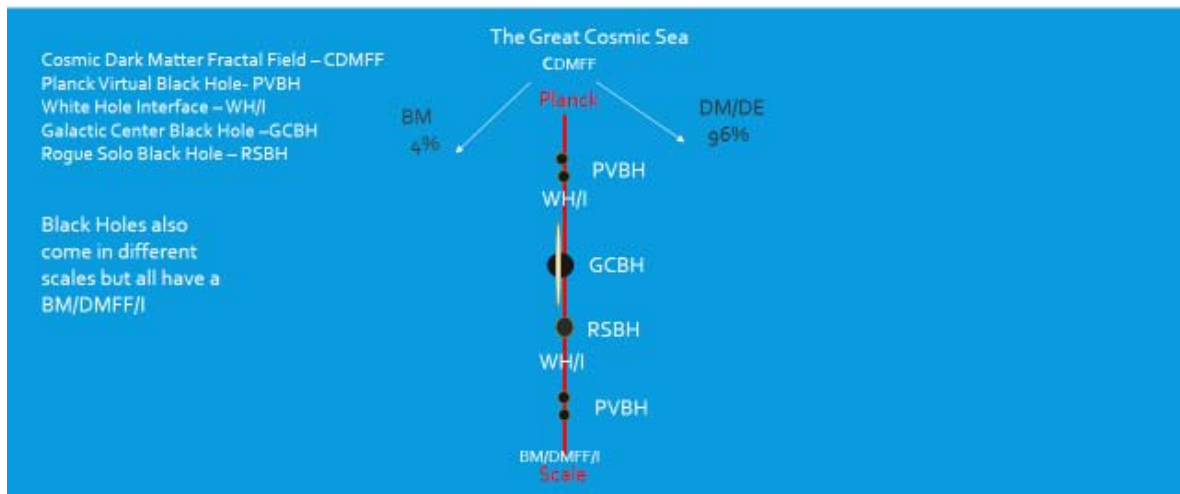


Figure 2

IV. CONCLUSIONS

There is a prediction of the Cosmic Dark Matter Fractal Field theory that is easily missed. This model of our reality predicts that all animate and inanimate objects are held in formation by morphic resonate coherent domains, which is the vast majority, have a Baryonic Matter/Cosmic Dark Matter Fractal Field/Interface. (Fig2) This interface is likely to be a zone of very high energy production due to the dynamo-like action that occurs there secondary to the high velocity and constant motion of our planet moving through space-time engulfed in the Great Cosmic Sea. The best way to envision how this new concept of black hole birth occurs is to see this dynamic occurring at that membrane of baryonic matter/dark matter/dark energy within the dying star, merging Neutron stars or merging black holes called kilonova. This new model of black hole creation can now explain the almost limitless source of high energy activity/mega-gravity events observed in and around all black holes especially and including colliding neutron stars with black holes and super massive black hole (SMBH) galaxy collisions as well as PVBH/wormhole dynamics at work at the Planck scale throughout The Great Cosmic Sea.

There is now much scientific attention and investigation occurring throughout high energy astrophysics and astronomy concerning these illusive gravitational giants and the energy dynamics at work in our cosmos. The level of black hole/white hole functional dynamics seem to be much more at work according to CDMFF theory in the Planck scale than first thought and now with the advances made in multiple electromagnetic frequency detection across the visual

and nonvisual spectrum as well as gravity wave detection much more will be learned at a faster pace to discover the mysteries of the black hole dynamics.

See this report of the October 2017 Kilovova event:

<https://www.space.com/38471-gravitational-waves-neutron-star-crashes-discovery-explained.html>

The recent collaborative efforts by astronomers of all persuasions called multi-messenger detection which has been greatly enhanced by the more recent LIGO/VIRGO gravity wave detectors has led our new ability of multiple observational study and verification of the massive energy/mega-gravitational events occurring in our cosmos using data collected in the visual land-based telescopes, radio telescopes, as well as, space-based satellite telescopes of all spectrums of the electromagnetic spectrum have confirmed such collisions and greatly increased the knowledge of BH mega-energy dynamics.

Space-time is neither smooth nor-homogeneous; it is highly energetic and dynamical in ways we have not yet even considered. We should explore our reality not just by its pieces and parts but as a holographic fractal whole. You cannot understand the complex life of a butterfly by only looking at the cocoon from which it emerged an atom at a time. Therefore, with this in mind my experience tells me that the cosmos makes more sense in the context of a fractal derived model as described in the cosmic dark matter fractal field theory. The injecting of multiple zones of high energy focal points in space-time, we call black holes, with dark matter/dark energy has amazing implications and gives science a new context to explore the

functional and structural nature of these ubiquitous massive and super massive objects.

The link below takes you to a documentary that you will see more information on mulit-messenger detection of the October 2017 Kilonova event!

https://www.amazon.com/Star-Crash-Explosion-Transformed-Astronomy/dp/B078YHMMZ7/ref=sr_1_2?ie=UTF8&qid=15-20705270&sr=8-2&keywords=Star+crash

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