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Quantum Scalar Gravity General Relativity, Quantum Mechanics, the Life Force and Multi-Dimensional Motion of Objects within a Cosmic Scalar Flow

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Quantum Scalar Gravity General Relativity, Quantum Mechanics, the Life Force and Multi-Dimensional Motion of Objects within a Cosmic Scalar Flow

Timothy Fulton Johns DDS

Abstract-

The Cosmic Dark Matter Fractal Field Theory

The unification of Newton's/ Einstein's Gravity and Quantum Mechanics is truly a focus of science with great promise for our increased understanding of the cosmos. So to find a theory that explains the connection of these two concepts of our reality is indeed an exciting prospect. This paper attempts to do that and explain how life is a contributing force which appears to be an essential part of the complete picture. It may require further reading about the details of the evolving Cosmic Dark Matter Fractal Field Theory (CDMFFT) to better understand the full concept but those links are provided to previous foundational work published by GJSFR for your review. The other theories that attempt to unify gravity and quantum mechanics such as String Theory have completely left out the explanation of the Life Force and its connection to the unification of gravity and quantum mechanics. How could any theory that leaves out life claim to be a unification theory of our universe which ignores the very source that asks such questions. This new theory is now explaining how the neglected Life Force joins the other four known accepted forces of nature and gives strong indication of a cosmos with design and intention. A conclusion the late Steven Hawking arrived at about a year prior to his death in this press release of February 2016, "The English theoretical physicist and cosmologist, Stephen Hawking, surprised the scientific community last week when he announced during a speech at the University of Cambridge that he believed that 'some form of intelligence was actually behind the creation of the Cosmos.' This strange phenomenon which he names the God factor, would be at the origin of the creation process and would have played a great role in determining the actual form of the Cosmos.'

What this paper will reveal is that what appears to be natures indifference at our local scalar level is in fact seen more clearly as what appears to be intentional design when considered from a cosmic multi-scalar perspective.

See link for details:

http://therismosfoundation.org/2016/02/07/breaking-news-hawking-admits-god-does-exist/#.W-jO_JNKi00 YouTube Lecture link "The Great Cosmic Sea of Reality" below:

https://www.youtube.com/watch?v=R-DLHuiGgy8

I. May The Five Forces Be With You!

he Earth, like the nucleus of an atom, exists within the cosmos both at different scales, both seemingly adrift in an abyss of the cosmic sea

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under its control and both are a very small part of a much larger evolutionary process of our reality yet in constant motion in multiple vectors. Our cosmos is vast and the closest thing to infinity that our mind can comprehend so possibly time spent discussing the incredible scale of our reality will be helpful.

Consider the nucleus of an atom and let's take the simplest one.... hydrogen, the atomic fuel of our sun and all of the stars in the universe. It consists of one proton and one neutron in the central nucleus with one highly energized electron orbiting the nucleus. scale of this example is important to understand because all atoms exist at this scalar approximately 1x10 ^ -15 meters below our layer but more important to understand is just how empty occupied space truly is. The number of protons and neutrons in the nucleus and the number of orbiting electrons only increases with higher elements from the hydrogen atom up through the heavier 118 elements of the periodic table but the emptiness of space within the atomic scale changes very little because of the weak and the strong nuclear force. While the weak and the strong nuclear force are out of our direct unawareness at our scale the electromagnetic force is evident and easily observed, as is gravity the fourth known force of our reality. The fifth force is the ignored force this theory is proposing, the life force with its force and tenacity becoming more and more evident as science progresses.

II. WHY THEN IS SPACE SO EMPTY?

Space is mostly void at all scales, it is unbelievably empty much more than you can even imagine and that is where gravity comes into play as quantum scalar gravity (QSG). That means even though gravity is considered the weakest of the cosmic forces because it, like our perception of time, is relative to the scale being considered, as well as, the mass relative to that scale and speed of scalar motion in any given layer. But let's not get ahead of ourselves, let's first get a handle on understanding scalar dimensions or layers of reality. I will provide some examples to help illustrate this little understood realm. Let's start with some illustrations of scale of very large numbers and let's use the dollar bill as our example. The dollar is about 1 millimeter in thickness; if I were to count out a million dollars or said

another way 1x 10^6 dollars using one dollar bills counting and stacking one every second the stack would be 358 feet tall; that's about as high as a thirty story building and it would take me twelve days to complete the task. If I did the same thing with one billion dollar bills or 1x10 ^ 9 the stack would be 68 miles high and take me 32 years to complete. If I did it with one trillion dollars or 1x10 ^ 12 it would be 67,666 miles high and take 32,000 years to complete. That is called exponential scale of growth. Taken in reverse or negative scale to microscopic levels that is called micro scale reduction. The known continuum of that range in our universe is 1x10^-35 meters the smallest layer called the Planck scale; to the very large 1x10 ^-35 meters called the macroscale; the size of the unbelievably large super massive black holes thought to exist at the center of all of the over 100 billion galaxies in the observable universe.

If you were to enlarge the size of the atom to the size of a football stadium and place the nucleus of the hydrogen atom in the center of the field at the 50-yard line it would be about the size of a large concord grape. The electron that orbits it would be 1/100,000th the size of the grape and whizzing around the grape at the speed of light at a distance of somewhere in the top rows of a 50,000 seat stadium. It was this model of the atom developed by Nobel Laureate's Earnest Rutherford and later Niels Bohr at the turn of the previous century that revealed the fractal nature of the atomic structure as self-similar to that of the planetary system of Saturn, or our solar system and the thousands of other exoplanet solar systems being discovered within it currently every year. While that is not exactly what the model of the atom is now thought to look like it is a good representation of the fractal nature of our reality. This is clearly a fractal framework in play! However, this work would also reveal the extreme emptiness of the internal structure of the atom. To take this scalar example further to give a better understanding of what all of this emptiness means let's consider all of the atoms in a person.

If you removed all of the vacuum space in the hundreds of trillions of atoms in a human the condensed mass would be about the size of a grain of salt. If you took all of the 6 billion people on our planet and combined them in like manner the entire mass would be about the size of a large apple. So even occupied space is very empty! The same ratio of vast emptiness is repeated in our solar system, our galaxy and especially in the web-like formation of multiple galactic star systems of deep space and beyond, again fractal. Yet within this emptiness of vacuum space resides enough energy in a volume the size of a coffee cup to vaporize all of the water in all the oceans of our planet. How could this be true? Through the work of scientist like Hendrik Casimir discovering the Casimir Effect and Nobel Laureate Willis Lamb for the Lamb Shift both

scientist working to uncover the energy of quantum fluctuations and their work revealed the tremendous energy of vacuum space which was experimentally verified, more on the source of that energy later.

III. THE GREAT COSMIC SEA AND DIMENSIONAL SPACE-TIME

Almost three-quarters of our globe is home to another world we are only beginning to understand. Yet, what has been very obvious from our earliest investigation of the sea is that it reveals a complex reality alien to us. The sea is a world in and of itself. Though it provides the very fabric of existence of the life it sustains, the combined network of oceans that blankets our planet which is approximately seventy percent of the Earth's surface goes unnoticed by its inhabitants due to its scale and the fact that these waters are the very space (i.e., fluid) these life-forms live in and navigate through moment by moment. As it is with the sea life, so it is in our universe. We, like our marine counterparts, fail to notice the sea of our own reality. The space we occupy and live in is empty to our everyday sensory perceptions, however, this abyss of space-time at all scales is not exactly as empty as it seems from a scalar perspective. This is where the Great Cosmic Sea resides and the fluid-like flow of space-time occurs.

IV. THE CONFIRMATION OF AETHER

There is a constant interaction always taking place within the Great Cosmic Sea we all live in moment by moment. The cosmic sea I speak of is part of our environment and contains what I believe cosmologist now call dark matter/dark energy. It is what early investigators called another name the vacuum space, ground state, or zero-point field. This empty space is where many scientist in the past believed a substance called Aether existed. My preference, a more descriptive name, is the cosmic dark matter fractal field (CDMFF) for reasons that will become obvious. This is where I think dark matter exists in the form of these CDMFF's that make up the unseen Aether predicted by many scientists of the past two century, however, we are talking about the same phenomenon. This CDMFF is part of a scalar flow which emanates from the Planck level at1x10^-35 meters and occurs throughout occupied and non-occupied space-time. A constant flow throughout this massive energetic Great Cosmic Sea up to the most super massive objects of our universe as all objects of occupied space move at high velocities within the body of this sea of CDMFF's or Aether.

Constant motion in many vectors is the standard operation of our cosmos at all scales. We don't have an awareness of our motion as we sit or go about our daily life. Our senses cannot detect the high speeds of that actual motion of our rotating planet at

1000 mph or our orbital speed around the sun at 66,000 mph due to the tremendous difference of the scales involved. However, Earth and the great distances of the other celestial objects within the vast emptiness of space between Earth and these objects give us a hint as you watch their movement in the night skies. awareness of up or down tends to stop at the ground we stand on or the top of a skyscraper or a cloud or mountain or the moon in our night sky but remember that is our perception in our layer. This limited awareness of the up/down dimension changes drastically when we realize that this up/down, right/left and front/back direction only makes since in a particular frame of reference which occurs within our scalar layer. When you are standing on a surface like earth or a spacecraft both are equally valid and provide orientation to your three dimensions but the context changes, as well as, the strength of gravity you experience. While we always retain the three dimensions of space at any scale layer they lose meaning for example from the perception of an astronaut floating in deep space in a frame of reference that has no other object as an opposing comparison frame of reference.

North, south, east and west only extends 25,000 miles where we stand, the circumference of our planet, that's how far you would travel before you return to the very same spot where you now stand or as Einstein envisioned it "If you could see forever you would see the back of your head". The magnitude of this third dimension, up and down is much the same but seemingly stops at the ground we stand on and the sky scrapers above us or the moon above us, a vastly different perspective when considering space beyond our planet but within view of our scale layer. It is the concept of layers of scale of the very small and the very large that we must come to understand. The extent of the scalar dimension is much greater and we sit just about right in the middle of a continuum of that dimensional scale which is a zone described as a scalar layer; a continuum that extends in two extremes from 1x10 ^ 35 meters toward the largest super massive objectives in the heavens to 1x10 ^-35 meters the smallest, well past the atomic scale to what is known as the Planck scale but each layer has those three dimensions also, conceivably with limited perception. That is the most important thing to comprehend in order to understand the new implications of this theory and the attempt to lead our awareness to a new understanding of our reality.

V. RELATIVITY AND THE CONCEPT OF AETHER

Albert Einstein in 1920: "We may say that according to the general theory of relativity space is endowed with physical qualities; in this sense, therefore, there exists an Aether. According to the general theory

of relativity space without Aether is unthinkable; for in such space there not only would be no propagation of light, but also no possibility of existence for standards of space and time (measuring-rods and clocks), nor therefore any space-time intervals in the physical sense. But this Aether may not be thought of as endowed with the quality characteristic of ponderable media, as consisting of parts which may be tracked through time. The idea of motion may not be applied to it."[13] as per Wikipedia.

This last sentence is where the CDMFFT differs from the way Einstein viewed Aether within space-time. It is essential that this Great Cosmic Sea move and flow through the continuum of scalar layers of dimension in order to produce the energy of empty space-time as well as its fabric, form and function. This is the media that carries the gravity waves predicted by Einstein and now found to actually exist using the new gravity wave detectors such as the two LIGO detectors in the United States and VIRGO in Italy.

Paul Dirac wrote in 1951:[7] "Physical knowledge has advanced much since 1905, notably by the arrival of quantum mechanics, and the situation about the scientific plausibility of Aether has again changed. If one examines the question in the light of present-day knowledge, one finds that the Aether is no longer ruled out by relativity, and good reasons can now be advanced for postulating an Aether ... We have now the velocity at all points of space-time, playing a fundamental part in electrodynamics. It is natural to regard it as the velocity of some real physical thing. Thus with the new theory of electrodynamics [vacuum filled with virtual particles] we are rather forced to have an Aether". as per Wikipedia. See my paper on Origin of Virtual Particles https://journalofscience.org/index.php/ GJSFR/article/view/2104/1965 Like Einstein, Paul Dirac is hinting that there is something else there in spacetime we aren't detecting but if he had any suspicions of something like dark matter he kept it to himself. This missing mass represents the very threads of the fabric of space-time these brilliant men intuitively suspected to exist. The first hint of Dark Matter/Dark Energy presence was perhaps in 1905 from Albert Einstein's work on relativity. He was confronted by what he thought was a mistake at first. His calculations on general relativity were indicating increasing mass/gravity which he thought was predicting an eventual collapse of the universe. This was not in line with a static universe which was a prevailing, widely known and agreed upon cultural "fact" as well as the foundations of then current scientific culture and the previous centuries of scientific thinking. This led Einstein to add, presumably because of cultural pressure, what some called a fudge factor to his calculations. He called it the cosmological constant which brought the results back to a static model of the universe, the mass was then negated by this mathematical alteration of Einstein. He would in later

years regret that decision calling it the biggest blunder of his career because as we now know our cosmos is far from isolated or static and possess much still unexplained mass.

We are in fact moving at high velocity in at least three different vectors through the Aether as a part of a complex web of over 100 billion galaxies in our highly dynamic universe. The presence of DM/DE has emerged very recently with more clarity out of the long shadows of a progressive era of amazing science while looking for answers to many questions about our reality. Even Isaac Newton believed that something like Aether must be present as a medium, "a great sea of form and substance to propagate light energy". The Cosmic Dark Matter Fractal Field is the "waters" of this great sea and what The CDMFFT substantiates as the missing mass these men hinted at; that is the Aether long believed to exist and provides the hidden mass therefore the energy of vacuum space!

John Bell in 1986, interviewed by Paul Davies in "The Ghost in the Atom" has suggested that an Aether theory might help resolve the EPR paradox or "entanglement" by allowing a reference frame in which signals go faster than light. He suggests Lorentz contraction is perfectly coherent, not inconsistent with relativity, and could produce an aether theory perfectly consistent with the Michelson-Morley experiment. Bell suggests the aether was wrongly rejected on purely philosophical grounds: "what is unobservable does not exist" [p. 49]. Einstein found the non-aether theory simpler and more elegant, but Bell suggests that doesn't rule it out. Besides the arguments based on his interpretation of quantum mechanics, Bell also suggests resurrecting the aether because it is a useful pedagogical device. That is, many problems are solved more easily by imagining the existence of an aether.[citation needed] as per Wikipedia.

VI. As It Turns Out The CDMFFT May Prove Bell to be Right!

There is another factor to be considered now concerning the proofs of the Michelson-Morley experiment of 1887 which seemed to negate the presence of Aether but should be revisited to reconsider the conclusions. According to the CDMFFT there is an actual scalar flow, a current of Aether, occurring that contains Dark Matter Fractal Fields that give the fabric of space-time a scalar gravitational stability due to the dark matter framework of all fractal fields. This would allow for a stable speed and direction of the light photons regardless of the direction it is projected through spacetime with the exception of proximity to extreme mass. Also, the flow of the Aether of the great cosmic sea is scalar not directional as the experiment parameters where setup and designed to measure the speed of light. Einstein remarked "God does not play dice with

the Universe" and those agreeing with him are looking for a classical, deterministic aether theory that would imply quantum-mechanical predictions as a statistical approximation, a hidden variable theory. The CDMFFT is in many ways providing a new foundation to the De Broglie-Bohm theory as well as the Hidden Variable theory of Einstein regarding the implications of the measurement problem of quantum mechanics and the Copenhagen interpretation.

"In particular, Gerard 't Hooft[14] who recently conjectured that: 'We should not forget that quantum mechanics does not really describe what kind of dynamical phenomena are actually going on, but rather gives us probabilistic results. To me, it seems extremely plausible that any reasonable theory for the dynamics at the Planck scale would lead to processes that are so complicated to describe, that one should expect apparently stochastic fluctuations in any approximation theory describing the effects of all of this at much larger scales. It seems guite reasonable first to try a classical, deterministic theory for the Planck domain. One might speculate then that what we call quantum mechanics today, may be nothing else than an ingenious technique to handle these dynamics statistically.' In their paper Blasone, Jizba and Kleinert "have attempted to substantiate the recent proposal of G. 't Hooft in which quantum theory is viewed as not a complete field theory. but is in fact an emergent phenomenon arising from a deeper level of dynamics. The underlying dynamics are taken to be classical mechanics with singular Lagrangians supplied with an appropriate information loss condition. With plausible assumptions about the actual nature of the constraint dynamics, quantum theory is shown to emerge when the classical Dirac-Bergmann algorithm for constrained dynamics is applied to the classical path integral" [...]. as per Wikipedia.

These well-known and respected scientists have all, in their own way, held fast to the rationale for the need of a medium they called Aether to exist for the reasonable and proper functioning of our quantum and classical reality. This Aether is an essential component of the space-time model of Einstein's relativity theories that requires an actual dynamic fabric of our cosmic sea. It is important that we consider that our reality may be more life-like than mathematical or mechanical; more organic than inorganic. We should also consider that our language, at least at this point in time in our evolution, may not have the ability to convey this concept for proper understanding of what science is now revealing.

Nature has a personality, a character that emerges naturally out of this Aether and cannot be corrupted but only recognized for what it is. A highly dynamical system that is in constant motion, therefore, the attempts of theoretical physicists to use mathematics based on static paradigms is not likely to give a logical conclusion that can be explained in a

rational way. The use of applying mathematical techniques like Lagrangian and Stochastic methods cannot provide an accurate model to capture the depth of holistic continuity embedded within The Great Cosmic Sea. It is whole, connected and complete; it is constructed from the dark matter fractal fields of recursive scalar quantum architecture derived from the collective archetype blueprints of the Dark Matter/Dark Energy cosmos.

The ever repeating construct of emergent galactic nurseries of highly dynamic stellar solar systems that undergo nature's fractal birthing process called accretion disk emergence occurs from the never ending continuous inertial motion of our life giving cosmos. This accretion disk process appears to be scalar, therefore, is active and working at many scales; which tells me it should be a focused target of future research to uncover proofs of this theory.

See my previous paper "Mind Fields, Consciousness and Biocognitive Morphogenetic Fields") https://globaljournals.org/GJSFR_Volume18/E-Journal GJSFR (A) Vol 18 Issue 5.pdf

VII. THE SEEDS OF OUR UNIVERSE, DARK MATTER FRACTAL FIELDS THE STRANGE ATTRACTOR

It is a foundational prediction of the Cosmic Dark Matter Fractal Field Theory (CDMFFT) that the Aether these scientists speak of and believe must exist is in fact Dark Matter/Dark Energy in the form of various morphic fields that emerge within the Aether at many scales all around us. These fields are enumerable and ubiquitous throughout our cosmos but imperceptible to our senses and detection devices except for their gravitational effects at large scales and possibly at much smaller scales. These fields contain the memory of nature in many forms of both animate and inanimate form and function, both morphogenetic and biocognitive that are so essential for the life force to function in all biospheres across the universe. These various morphic fields exist at many scales and are the literal "threads" of the fabric of space-time.

When the conditions are right it is the prediction of the CDMFFT that scalar coherent domains (SCD) begin to form possibly with the appropriate morphic field emerging and an accretion process starts with these SCD's as a response to resonant quantum electrodynamics that directs the subatomic and the ultimate atomic structure directed by the fractal gravitational effects of the blueprint of the Dark Matter based morphic field (DMMF). This process has been done with the DNA molecule in the laboratory of several scientists following the protocol of Nobel Prize winning scientist Luc Montagnier.

"Nobel laureate Luc Montagnier, by careful protocol, proved that the DNA of certain virus and

bacteria could emit electromagnetic signals (EMS) and transmit the information to duplicate the DNA into a separate vile of sterile water. This amazing discovery was first rejected over ten years ago when Montagnier and his research team reported it. These results have since been repeated by all the different researchers you see below, and even more remarkable was the digitized electromagnetic signal (EMS) of the DNA being sent to other labs over the internet by e-mail, which was then used to duplicate the results of Luc Montagnier and his team. One key element was always critical for success that the tubes of sterile water were always exposed to the Schumann resonance, 7.83 Hz, Earth's EMS pulse, the well-known electromagnetic pulse of Earth created by dynamic tension between the magnetic field of the Earth and the highly electrically charged ionosphere layer of our atmosphere. Luc Montagnier used 7 Hz in his experiments.

VIII. Transduction Of DNA Information Through Water and Electromagnetic Waves

By, Luc Montagniera, b, Emilio Del Giudicec,*, Jamal Aïssab, Claude Lavalleea, Steven Motschwillerd, Antonio Capolupoe, f, Albino Polcarig, Paola Romanog, h, Alberto Tedeschii, and Giuseppe Vitielloe, f a World Foundation for AIDS research and Prevention (UNESCO), Paris, France b Nanectis Biotechnologies, S.A. 98 rue Albert Calmette, F78350 Jouy-en-Josas, France c Sezione INFN, I-20122 Milano, Italy (retired) and Centro Studi Eva Reich, Via Colletta, 55, I20122 Milano, Italy d Chronix Biomedical, GmbH, Goetheallee, 8, 37073 Göttingen, Germany Dipartimento di Fisica E.R.Caianiello Universitá di Salerno, Fisciano (SA)— 84084, Italy f INFN Gruppo collegato di Salerno, Fisciano (SA)—84084, Italy g Dipartimento di Scienze e Tecnologie, Universitá del Sannio, Benevento-82100, Italy h SPIN-CNR, Universitá di Salerno, Fisciano (SA)— 84084, Italy and i WHITE Holographic Bioresonance, Via F. Petrarca, 16, I-20123 Milano, Italy.

Theoretical Analysis: Our formerly reported experiments (Fig. 2 and ref. (Montagnier, Aïssa, Lavallee, et al., 2009)) indicate that the ability of EMS production can be transmitted from tube 1 containing an emitter DNA dilution to tube 2 of "naive" water, provided the system is excited overnight by electromagnetic waves of a minimal frequency of 7 Hz. Presumably tube 1 transmits waves to the water in tube 2, which did not originally contain any trace of the DNA at the origin of the signals. In the previous Section we have reported the experimental observation that EMS can be emitted by diluted aqueous solutions of bacterial and viral DNA under proper conditions. Moreover, it has been observed that duplication of the emitting DNA segment can be obtained by using pure water exposed to the corresponding DNA EMS and, upon addition of

enzymes, primers, etc., submitted to PCR (Polymerase Chain Reaction) cycles. Such a transduction process has been observed to occur also in EMS exposed living cells of tumor origin. These experimental observations suggest that long range molecular interaction must be at work in water so to allow the observed properties. Indeed, since in the transduction process the high level of sequential ordering among several hundreds of nucleotides entering the transduced DNA chain is obtained, we are clearly in the presence of collective molecular dynamical behavior of water. In quantum field theory (QFT) it is known that the ordering of the elementary components of a system is achieved as a result of the spontaneous breakdown of symmetry and constitutes the observable manifestation of coherence (Blasone, Jizba and Vitiello, 2011; Fröhlich, 1977; Umezawa, 1993; Vitiello, 1998).

These groundbreaking original studies present many implications, but the most important question is, how did the atoms that make up the DNA in vile #2 align and form in the previous experiment by Montagnier? Water contains only two atoms, hydrogen and oxygen. That's a long way from deoxyribonucleic acid. However, the nucleotides added to vile #2 by the PCR enzymes provided the needed atoms but no structure or instructions for assembly.

The Cosmic Dark Matter Fractal Field theory explains it this way:

The field of the DNA was projected or transmitted to the second vile of water that had been tuned to a receptive resonate frequency (7 Hz), the electromagnetic pulse of this planet. The morphogenetic field of the DNA was projected from the first vile to the water of the second vile, which received it as a radio-like signal imprinting this transmitted DNA morphogenetic field attractor now present in the water by breaking the bipolar symmetry of the water creating the coherent domain (CD) of the morphogenetic field of the DNA molecule. This allowed elemental particles to be attracted to the correct position to create the molecular bonds necessary for the nitrogen, phosphorus, and carbon atoms to be attracted to the correct position in the right orientation as needed. This occurred through quantum electrodynamics (QED) according to the DNA field blueprint now present in the second vile presumably by way of scalar resonate coherence filling in the DNA quantum field in the required positions. This elemental particle alchemy formed through molecular phase locking of the nitrogen, phosphorus, and carbon atoms in the sterile water, creating the molecular form directed by the scalar CD of the DNA Dark Matter Fractal Field molecular pattern that had been transmitted to the second vilecausing this resonant Dark Matter Fractal Field DNA blueprint to emerge from the Aether to guide the DNA formation in the sterile water.

Once again, this shows how a field in this case of electromagnetic energy working with the strange attractor (Morphogenetic Fields) can direct, shape, and form matter at the BM/CDMFF interface. All of which implies an underlying substructure out of our detection but clearly providing the exact blueprint for the assembly of life-giving DNA evidenced by the work of Montagnier et al. If you think about the astounding results of Luc Montagniera's experiment in the context of the CDMFFT the reach of the Life Force is ubiquitous throughout our galactic universe and implies extraterrestrial life.

IX. OCCUPIED AND NON-OCCUPIED SPACE-TIME DYNAMICS AND RELATIVISTIC IMPLICATIONS E=MC^2 AND[ER=EPR]

One of the not so well understood meanings of E=mc^2 is our reality exist in three different phases, from energy to mass and finally from mass to coherent domains CD. (When I say CD you think invisible fields like the ones that form and direct schools of fish or flocks of birds flying in formations) as directed by morphic fields you cannot see or feel yet they are the unseen influence that gives all form and shape even function at multiple scales. This is much like the magnetic fields you may have seen at some point in your life and exposed to your awareness by placing a magnet under white notebook paper and a magical pattern appears when iron filings are sprinkled on top of the notebook paper except with Morphic Fields these fields are in a harmonious functional dynamic motion.

In the concept of the CDMFFT the main difference in what this theory brings to our awareness is that scalar flow is the defining element of the occupied places in space by accretion and the gravitational focus or choke points where the scalar flow begins to concentrate and channel, like water flowing into a canyon during a heavy rain fall. This is the concentrating cherode (cherode) model of quantum scalar gravity (QSG) that produces mass in sufficient quantities to produce objects of all sizes and masses by formative causation throughout the scalar layers in the expansive continuum of our reality. (SeeC H Waddington) This action of the scalar flow of Dark Matter Fractal Fields is responsible for all of the baryonic matter derived objects in our Universe and the derived gravitational actions proportional to the mass of each object at each scalar layer. However, we must never forget that in each of these forms it is always energy! The Cosmic Dark Matter Fractal Field is definitely foundational to all of this.

X. LISTEN TO THE CONCLUSIONS OF A STUDY BY HAL PUTHOFF ET. AL.

"Hal and Bernie also realized that their discovery had a bearing on Einstein's famous equation $E = mc^2$. The equation has always implied that

energy (one distinct physical entity in the cosmos) turns into mass (another distinct physical entity). They now saw that the relationship of mass to energy was more a statement about the energy of quarks and electrons in what we call matter caused by interaction with the Zero Point Field fluctuations. What they were all getting at, in the mild-mannered, neutral language of physics, was that matter is not a fundamental property of physics. The Einstein equation was simply a recipe for the amount of energy necessary to create the appearance of mass. It means that there aren't two fundamental physical entities—something material and another immaterial but only one: energy. Everything in your world, anything you hold in your hand, no matter how dense, how heavy, how large, on its most fundamental level boils down to a collection of electric charges interacting with a background sea of electromagnetic and other energetic fields—a kind of electromagnetic drag force. As they would write later, mass was not equivalent to energy; mass was energy. Or, even more fundamentally, there is no mass. There is only charge."

McTaggart, Lynne. The Field: The Quest for the Secret Force of the Cosmos, loc: 193–196, Kindle (HarperCollins, updated edition). 4 McTaggart, loc: 193–196. 5 McTaggart, loc: 824–825.

"This paper by Hal Puthoff et al. implies that our reality is a result of a type of phase transition from energy to mass. They leave out the last step, and that is matter and its transformation to an organized condensate whole producing emergent properties of form and function presumably by way of quantum fields. These quantum fields (QFT) are then organized by way of quantum electrodynamics (QED) and then, I believe, propagated by way of CDMFFs, creating cascades of fractal iterations of coherent domains at multiple scale levels in nested recursive fashion, forming what we know as ordinary matter. However, this transition occurs at the very heart of the interface between the two worlds, oneof ordinary matter and the other an unknown world of dark matter / dark energy the CDMFF. Listen to what James Gleick says about this possibility in his amazing book 'Chaos: The Making of a New Science'.

The march of phase transition research had proceeded along stepping stones of analogy: a nonmagnet-magnet phase transition proved to be like a liquid-vapor phase transition. The fluid-super fluid phase transition proved to be like the conductor-superconductor phase transition. The mathematics of one experiment applied to many other experiments.

By the 1970s the problem had been largely solved. A question, though, was how far the theory could be extended. What other changes in the world, when examined closely, would prove to be phase transitions?"

Fulton Johns, Timothy. The Great Cosmic Sea of Reality (Kindle Locations 243-244). Page Publishing, Inc.. Kindle Edition.

What the CDMFF theory reveals is what I call general relativistic phase transitions (GRPT). The simple way to understand that statement is what each of us knows about water.....!Water is a very simple molecule with very special qualities so let's talk about emergent properties first. The water molecule consists of two atoms of hydrogen and one atom of oxygen both are gases you can't see or feel, ingested individually they are necessary and support life. Yet when combined the water molecule is an emergent property and forms a liquid you can both see, feel and drink. Water is required for life to exist; your body is over 75% water which must be replaced constantly to maintain homeostasis. Another example of emergence within our reality is salt. Salt is made of one sodium atom a solid and one chloride atom a gas. If you ingest either one of these by themselves they are toxic and will kill you, yet when combined in a sodium chloride molecule you get tasteful life-sustaining salt with an emergent property which also is essential for life.

Water as a molecule is known to exist in three different phases based on pressure and temperature; a solid as ice, a liquid as water and gas sometimes visible as steam or fog. The same molecule is always present in every case just in a different phase or form but always water. An interesting fact of this emergent characteristic of our reality; when salt is added to water as it is in your body chemistry it changes the physical properties of the freezing point of water which improves the resistance to freezing of biologic life. Therefore, this combination of salt with water improves the survival parameters of life during frigid environmental conditions.

XI. GENERAL RELATIVISTIC PHASE TRANSITION (GRPT) WITHIN ER=EPR

The ER=EPR reference is representative of a new understanding of the work of the men these letters represent. The E stands for Einstein the R for Rosen, one of his colleagues, who wrote a very famous paper with him called the "Particle Problem in the General Theory of Relativity". This paper was written in 1935 some 20 years after his work on relativity. This new insight emerged concerning the implication of what is known as the general relativity field equations of the famous E=mc^2 equation, which included a prediction of a strange existence never before seen or even imagined later named black holes by physicist John Wheeler.

Black holes are a place in space where, very much like a sink-hole or a drain in the bottom of a bathtub, a formation occurs of an unexpected vortex of the fabric of space-time; but this vortex was in space itself. This paper was introducing the possibility of BH's existing as a prediction of Einstein's General Relativity Theory (GR) and a consequence of the BH, what became known as Einstein-Rosen bridges also known

as wormholes that were the extended progression of the BH's. The evidence is strong that this dynamic of our reality exists.

We also have evidence that these BH's exist at both extremes of our continuum, is it possible they also exist in the vast arena of inner empty space? There is good evidence that they exist in outer space as Rogue Solo Black Holes [RSBH) in multiplicity at many different sizes/scales with different gravitational strengths. There is also recent verifiable evidence that these BH's merge and create more massive BH's producing a large gravitational "splash" in our cosmic sea measured by gravitational wave detectors when this occurs at very large scales. What would we expect to see if this were true across the cosmos at very small scales? What possibilities are conceivable if there was a ubiquitous presence of BH's at many different layers of our scalar reality? It is a prediction of the CDMFFT that BH's exist at many different scalar levels and act as a focal point of gravity that begins the ubiquitous process of the "drain hole" accretion action in non-occupied space-time. This local scalar action forms the accretion disk that attracts the morphic fields that provide the blueprint detail instructions which attract the virtual particles, that form the needed atoms, which form the required molecules to produce the SCD of both animate and inanimate objects. This fractal process occurs throughout The Great Cosmic Sea including occupied space-time in the appropriate way as directed by evolution and archetype influences of morphic fields. The black hole/white hole dynamics provide the hidden engine underlying this process of scalar functional dynamics in this ongoing cyclical process.

White holes exist most likely at the Planck scale possibly at the BM/CDMFF/Interface, both are predicted to exist from general relativity field equations. 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 BH at the center of our galaxy is estimated to be 3 billion solar masses and it 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 super massive BH's common to galactic centers and elsewhere throughout the cosmos. This produces extreme density of focal concentrated mass/gravity and larger and larger BH's through BH collision dynamics. There appears to be production of growing extreme gravity along with influence of DM/DE input at the BM/CDMFF/I during the super nova phase of Chandrasekhar limit stars as well as BH collision. All BH's have what is known as an event horizon also known as the Schwarzschild radius which is larger as the size of the BH's grow. The Schwarzschild radius is a zone around the BH that is the point of no return once

BM crosses this theorized line. The prediction of the CDMFFT is that all BH's also have a Planck level as well and a BM/CDMFF/I where the cycle of our reality emerges and returns. This may explain the mystery of the supper massive BH's found to exist in our cosmos. See the paper on this prediction of CDMFFT:

https://globaljournals.org/GJSFR Volume18/1-Dark-Matter-May-be-a-Possible.pdf

The BM will be consumed within the BH core space-time singularity and according to the CDMFFT 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.

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 trans radiation. See my paper on Reverse Entropy:

https://globaljournals.org/GJSFR Volume18/1-Entropyis-Not-a-One.pdf

XII. THE WHITE HOLE OR AN 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 reallyfit with what we know of black holes. On the other hand, pair creation of black holes in a magnetidield or in cosmol ogy is described by instantons with topology S2 ×S2. This shows that one can interpret S2×S2 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 Universit'e and Universit'e 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 afinite 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 macro-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:

XIII. "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 dened 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"

EPR previously mentioned above stands for the names of the scientists plus Podolsky another physicist and collaborator of Einstein which wrote another paper with Einstein and Rosen. This paper relates to the quantum world presenting what became known as the EPR Paradox. This paper introduced theories concerning the now known unusual effect called Entanglement later proven to occurby the theoretical work of John Bell and experimental confirmation by French physicist Alan Aspect. Entanglement, like the cosmic dark matter fractal field, is an essential factor in the ubiquitous nature of the influence dark matter / dark energy has on the entire cosmos. The paradox of EPR is that particle pairs being created within the space-time continuum seem to be linked in such a way that when a change in the dynamic of one occurs the linked or "Entangled" partner instantly has a corresponding but reverse or mirror image dynamic change no matter the distance between them. Therefore, this could produce information transfer faster than the speed of light which conflicted with Special Relativity. However, CDMFFT may provide a clue to the origin of the entanglement phenomenon Einstein called "spooky action at a distance." It is a prediction of the CDMFFT that Entanglement is a phenomenon that links Dark Matter/Dark Energy with our Baryonic world because both worlds are linked by Dark Matter derived quantum gravity through Dark Matter Fractal Fields. Therefore, the gravity link first recognized by astronomers at the macroscale of galactic formation Is, according to the implications of this theory, also connecting everything throughout space-time down to the microscale at the Plank Baryonic Matter/Cosmic Dark Matter Fractal Field/Interface (BM/CDMFF/I) making our baryonic matter (4%) reality contiguous with DM/DE (96%) through dark matter derived quantum scalar gravity (QSG).

Future research may very well point to dark matter/dark energy influences being responsible for entanglement observations of ordinary matter as well as a type of gravity shift that occurs at the BM/CDMFF/I because of the dark matter framework that is the foundation of Morphic Fields, like the refractive index deflection illusion that occurs with light as a stick dipped in a body of water seems to bend when placed into the interface of our atmosphere and a body of water.

In a fractal scalar way, this same phenomenon might even cause measurement errors in our cosmological observations, leading us to false conclusions of the dynamics of the cosmos, including but not limited to its predicted active expansion believed to occur in the cosmos. Our BM world is the stick immersed into the great cosmic sea of DM/DE, creating a false reading because of a tremendous disparity of gravity, a gravity shift! See

https://globaljournals.org/GJSFR_Volume18/2-The-Universe-is-Flowing.pdf

Entanglement, as described by the theory of Irish physicist John Bell and experimental proofs of French physicist Alain Aspect et al., which also have been repeated by many others (https://arxiv.org/ftp/ quantph/papers/0402/0402001.pdf.), entanglement is clearly involved in our reality and calls into question our understanding of space-time. But remember, these proofs are only dealing with 4% of the entire cosmos; the other 96% is doing something I suspect we can't predict with any accuracy yet. This also implies that CDMFF's escapes the bounds of time and possibly holds the clue to deep space travel throughout our cosmos. This could open the doors to plausible travel to any other Earth-like twin for exploration and possible colonization. This theory implies that there must be other worlds in our cosmos that contain a very similar biosphere as our planet.

The CDMFFT predicts that there is an imperceptible scalar flow that is occurring that is crucial to the form and function of our cosmos as well as the need to possibly revise General Relativity (GR) in light of this possibility. If this is true it changes many of the concepts that we hold as axioms of our understanding of our reality. This new theory provides a framework to begin to understand what the fabric of space-time consist of and its connection to the largest energy source of our cosmos, Dark Energy. This paradigm of our cosmos describes that the vast majority of our cosmos is composed of Dark Matter/Dark Energy (DM/DE) 96% according to most advocates of this concept. That gravitational connection has substantial implications for improving our understanding of Cosmic General Relativity (CGR) or said another way Scalar General Relativity (SGR) yet to be considered. This concept brings gravity into the quantum realm. According to this theory there is a direct connection between this vast reservoir of cosmic Dark Energy and our Universe. That connection involves Morphic fields made of Dark Matter (DMMF) derived mass/gravity that freely flows through the zone of demarcation of the baryonic world and the DM/DE world at an interface I call Baryonic Matter/Cosmic Dark Matter Fractal Field/Interface (BM/CDMFF/I).

"There are several ways to resolve the EPR paradox. The one suggested by the original EPR paper is that quantum mechanics, despite its success in a wide variety of experimental scenarios, is actually an incomplete theory. In other words, there is some yet undiscovered theory of nature to which quantum mechanics acts as a kind of statistical approximation (albeit an exceedingly successful one). Unlike quantum mechanics, the more complete theory contains variables corresponding to all the "elements of reality". There must be some unknown mechanism acting on these variables to give rise to the observed effects of "non-commuting quantum observables", i.e. the Heisenberg uncertainty

principle. Such a theory is called a hidden variable theory" . $^{[13]:334[19]:357-358}$ This Statement Is taken from Wikipedia.

The Cosmic Dark Matter Theory is possibly that "hidden variable theory" all of these scientists could not have known about DM/DE but intuitively believed there was a hidden element which must exist to explain Aether, as well as, the other conundrums of quantum mechanics like the "measurement problem" of the wave function collapse. The many elements of this theory and the paradigm shift of understanding the way our baryonic world interacts with a previously unknown mass have enormous implications with many new research avenues. Our baryonic world which makes up about 4% exists in an oil mixed with water-like relationship with the 96% predominant dark matter/dark energy within our cosmos. The constant movement across that interface occurs presumably due to the constant motion of our dynamic baryonic world as it moves in a dynamo-like relationship within the DM/DE zone of our cosmos is where the tremendous energy of vacuum space is generated that produces the Casimir Effect mentioned earlier.

XIV. WHAT IS THE NOW OF TIME?

What is time really? Let's consider time as we experience it in the now. What is now... and is your now the same as my now? Have you ever experienced time distortion where it seems to speed up or slow down? If you are old enough to be over the age of five, the answer will most likely be yes. That experience is based on the difference of perceived time not time measured by a clock. It seems to me that time is a human construct based on how many times one planet rotates on its virtual axis in relation to its orbit around its star according to the definition we learn but is subject to distortion. This means time as we experience it only means something to us as a measurement of events specific to us. It is a random measuring devise to better understand our reality and our existential concerns. Relativity however, puts this subject in direct connection to the dynamic of our existential scale of interest and it puts the meaning of our concept of now into question. Time is not only relative to the higher speeds you are traveling compared to another observer which slows the way you experience personal time as you approach the speed of light according to special relativity. Time is also relative to your proximity to a large massive object like earth or a black hole which also slows time for you as in general relativity due to the extreme curvature of spacetime. In fact, when you consider all of these variables time is different on every planet in our solar system, as well as, presumably all of the other planets in the cosmos. One thing is for sure about time, it is not a constant; the existence of time zones should be proof

enough of that, time is relative based on your location, frame of reference and a number of variables.

The CDMFFT reveals it is consistent with GR to include what I call Scalar General Relativity (SGR) which says the degree of curvature of space-time is related to the scale of the observation being considered and the amount of mass accumulated at any point in space-time within any particular scalar level coherent domain (SCD) as described by Newton's law of gravity as well as Einstein's General Relativity. The actual curvature of space-time at any scale is likely responsible for the actual shaping of the ubiquitous scalar accretion process that causes the well-known circular accretion formation at all scales. It therefore follows that the flow of time should also be affected by scale. A basic axiom of GR is that the more accumulated mass the slower time flows so at smaller scales time should flow faster than we experience it at our scale. That is why at the Schwarzschild radius of black hole's time slows drastically at the close proximity to the extreme mass of the unbelievably dense black hole, some say it even stops at the surface of a black hole which may hold true also for the Planck Virtual Black Hole's. Therefore, there is not one time there are many times, many now's!

So it further holds that as we consider a new understanding of time. This new theory of Cosmic Dark Matter Fractal Field's reveals that time moves exceeding fast at the Plank scale where there is very low mass by comparison to our scale layer but may slow to a stop at Plank Virtual Black Holes (PVBH) as black hole dynamics come into play at the baryonic matter/dark matter zone. So it is the premise of CDMFFT that all black holes share a common end point at their singularity because even a super massive black hole has a Planck level BM/CDMFF/I that occurs at the Planck scale and time is canceled or just becomes irrelevant at some point in this zone of black holes regardless of scale. The CDMFF's continue to flow like a vast current in the Great Cosmic Sea starting at this Planck BM/CDMFF/I junction and continues too and through the BH dynamics at all scales throughout our Universe and returns to the Planck level junction at the BM/CDMFF/I at all black hole singularities. This scalar flow of The Great Cosmic Sea from one extreme to the other of the continuum of our cosmos represents the necessary unseen, unacknowledged dynamic that is a cyclical timeless model which seems to be explaining and opening up new understanding of many heretofore unknown concepts of our universe still being investigated.

XV. CONCLUSIONS

The unification of Newton's/Einstein's gravity and quantum mechanics is still and has been long sought after. The search for a quantum gravity theory is truly a missing element of a complete understanding of science and its attempt to explain our reality. So to find

a theory that explains the connection of the two concepts of the macro and the micro scale of our reality is indeed an exciting prospect. The concept of dark matter as the predominant source of gravity of the cosmos and now possibly integrated with our baryonic world through acting as the substructure of morphic fields which form our reality is not only profound but is a total paradigm shift in cosmic perspective.

It also explains why we don't experience the weird quantum effects at our scalar layer that the particle/wave duality of the double slit experiment seems to predict; Einstein was so disturbed by the absurd notion that the moon was only there when you are looking at it proclaiming "that God does not play dice with the Universe". However, he did not have the evidence we now have for the missing gravity that his work on General and Special Relativity revealed in his day. These effects of particle duality are negated by the quantum scalar gravity (QSG) influence of the Dark Matter/Dark Energy derived gravity in morphic and morphogenetic fields of all types responsible for the scalar coherent domains of our baryonic world and not subject to disappearing when you turn away.

The entire concept of morphic fields as the "strange attractor" of scalar coherent domains (SCD) is that their unique attractive potential comes from the theory that these fields are made of dark matter/dark energy. They seem to freely flow between the interface of this baryonic/dark matter zone as a formative structure of both morphogenetic and biocognitive fields. Which, through Entanglement (EPR), connect with a vast reservoir of information stored in some as yet unknown way, like a vast "cosmic database", within the predominant DM/DE zone. This allows CDMFF's to carry or transfer information needed to produce form, function and life. This information retains previous evolutionary trial and error messages which have proven successful in similar environments in the cosmic past. It is the gravitational effects at multiple scales of that extreme gravity of DM/DE that produces the local curvature of space-time creating the accretion phenomena that starts the accumulations of needed virtual particles at all scales which attract information archetypes by resonant fluctuations of the fabric of space-time producing the needed scalar coherent domains (SCD) that starts and eventually builds the correct atom, the molecule and ultimately the correct form as directed by the memory of nature. Through a process much like the theory of the "collective unconscious" Carl Jung predicted and wrote about in the early 1900's. (See my paper on Mind Fields) https://globaljournals.org/GJSFR Volume18/4-Mind-

Fields-Consciousness.pdf

What I have found is that the Cosmic Dark Matter Fractal Field Theory comes closer to achieving unification than any theory currently under consideration and the only one that incorporates the long forgotten misplaced life force seemingly ignored in this quest.

How could any theory that leaves out life claim to be the Theory of Everything? I leave the conclusion to those that take the time to research such important discoveries and my hope is you will take time to study the full presentation of this theory which now includes six papers all published by GJSFR all derived from the now published book "The Great Cosmic Sea of Reality the Dark Matter Fractal Field Theory". The accretion of scalar coherent domains seems to be the best place to experimentally prove the presence of Dark Matter Morphic Fields as there must be a very small and very large general relativity scalar curving of space-time involved at the micro/macro-scalar levels producing first cause of cosmic birth of our reality at all scales in our baryonic world. However, gravity is such a weak force at small scales it will be a monumental task. This ability to evaluate the General Relativity effects at quantum scales may well be within our reach soon with the developing of quantum computing technology.