

## Introduction

In the words of Rene Descartes “If you would be a real seeker after truth, it is necessary that at least once in your life you doubt, as far as possible, all things.” If you cannot do this then read no further. For as Socrates stated, “The only true wisdom is to know that you know nothing.” The question then becomes not Undecidability, Uncomputability, and Unpredictability whose main objective is to prove that science is correct and that there is no answer, there is no theory of everything as stated by the late Stephen Hawking who once proclaimed that String Theory may be able to unify the various forces although later he became disillusioned thinking that there may be no Theory of Everything; but what is wrong, what are we leaving out, why can't we see it? Is it possible that mainstream science cannot pull all of the pieces together into a cohesive theory because they are missing something? The question is not what is the answer; the question is what's the question?

## Why's Laughter the Best Medicine When Contemplating Nature? Quantum Science, Life & Universe<sup>i</sup>

1. Everything we call real is made of things that cannot be regarded as real. If quantum mechanics hasn't shocked you, you haven't understood it yet! - Niels Bohr, Nobel Laureate, Physics
2. Quantum mechanics describes nature as absurd from the point of view of common sense. And yet it fully agrees with experiment. So, I hope you can accept nature as She is - absurd! - Richard Feynman, Nobel Laureate, Physics, Father of Quantum Computing
3. A human being is a part of the whole called by us universe, a part limited in time and space. He experiences himself, his thoughts and feeling as something separated from the rest, a kind of optical delusion of his consciousness. This delusion is a kind of prison for us, restricting us to our personal desires and to affection for a few persons nearest to us. Our task must be to free ourselves from this prison by widening our circle of compassion to embrace all living creatures and the whole of nature in its beauty! - Albert Einstein, Nobel Laureate, Physics
4. Richard Feynman, Nobel Laureate, Physics, Father of Quantum Computing

Deep in the sea  
all molecules repeat  
the patterns of one another  
till complex new ones are formed.  
They make others like themselves  
and a new dance starts.

Growing in size and complexity  
living things  
masses of atoms  
DNA, protein  
dancing a pattern ever more intricate.

Out of the cradle  
onto dry land

here it is  
standing:  
atoms with consciousness;  
matter with curiosity.

Stands at the sea,  
wonders at wondering: I  
a universe of atoms  
[an atom in the universe!](#)

5. Science cannot solve the ultimate mystery of nature. And that is because, in the last analysis, we ourselves are [part of the mystery](#) we are trying to solve! - Max Planck, Nobel Laureate, Physics, Father of Quantum Theory. (Matai, DK;, 2016)

## Newton and the problem of gravity<sup>ii</sup> (Holloway, MM; Matai, DK;, 2017)

At the outset of his Principia, Sir Isaac Newton took the greatest care to impress upon his school that he did not use the word "attraction," with regard to the mutual action of bodies in a physical sense. To him it was, he said, a purely mathematical conception, involving no consideration of real and primary physical causes. In a passage of his Principia, he tells us plainly that, physically considered, attractions are rather impulses. In Section xi (Introduction), he expresses the opinion that "there is some subtle spirit by the force and action of which all movements of matter are determined"; and in his Third Letter to Bentley he (Newton) says:

"It is inconceivable that inanimate brute matter should, without the mediation of something else which is not material, operate upon and affect other matter, without mutual contact, as it must do if gravitation, in the sense of Epicurus, be essential and inherent in it. . . . That [gravity](#) should be innate, inherent and essential to matter, so that one body may act upon another at a distance, *through a vacuum*, without the mediation of anything else by and through which their action may be conveyed from one to another, is to me so great an absurdity that I believe no man, who has in philosophical matters a competent faculty of thinking, can ever fall into it. Gravity must be caused by an agent acting constantly according to certain laws; but whether this agent be material or immaterial I have left to the consideration of my readers."<sup>iii</sup>  
(Blavatsky, 1893)

## What is the agent of Newton?

The problem that science has encountered is due to the fact that life and [consciousness](#) have been excluded in an attempt to unify the various theories. Science studies the effect and is searching for the cause leaving out the most fundamental parameter - life. The assumption being that life does not affect the observed phenomenon. Yet, the questions, What is Life? or What is Energy? or What is the process of Becoming and the nature of Being? remain unanswered.

The Nature of Everything, which is a translation of the ancient text for the modern Times, postulates that the soul of matter, the anima mundi, is the sentient factor in substance itself. It is

the responsiveness of matter throughout the universe and that innate faculty in all forms, from the atom of the physicist, to the solar system of the astronomer, which produces the undeniable intelligent activity which all demonstrate. It can be called attractive energy, coherency, sentiency, aliveness, awareness or consciousness, but perhaps the most illuminating term is that the soul is the quality which every form manifest. It is that subtle something which distinguishes one element from another, one mineral from another. It is the intangible essential nature of the form which in the vegetable kingdom determines whether a rose or a cauliflower, an elm or a watercress shall come into being; it is a type of energy which distinguishes the varying species of the animal kingdom and makes one man different from another in his appearance, nature and character. The scientist has tabulated, investigated and analysed the forms; names have been selected and given to the elements, and the minerals, the forms of vegetable life and the varying species of animals; the structure of the forms and the history of their evolutionary progress have been studied and deductions and conclusions have been reached, but the solution of the problem of life itself still eludes the wisest, and until the understanding of the "web of life" or of the body of vitality which underlies every form and links every part of a form with every other part is recognised and known to be a fact in nature, the problem will remain unsolved.

The modern fact of the scientist is his approximation of a part, and often an infinitesimal part, of some greater whole, and even then, it concerns only the most objective part of manifestation, for that which is the essence is not regarded as a reality. That which we see and can touch is but an *effect* of inner underlying causes. The scientist, therefore, is not as yet occupying himself with causes. When the scientist enters the consideration of the etheric substratum which underlies the tangible, then and only then will science be entering the domain of causes, and even in this case, only those physical causes which underlie the grossly objective; science will not really have ascertained the vital impulses which produce Being. Yet a great step will have been made for, under the *Law of Analogy*, science will then be in a position to comprehend some of the major secrets of solar manifestation; for the planes of our solar system constitute, the seven subplanes of the cosmic physical plane.<sup>iv</sup>

## The Growth of Quantum Physics beyond The Classical Model of Science

Many consider Quantum Physics to be at the cutting edge of Western science and in many respects it goes beyond Einstein's Theory of Relativity. The interesting challenge associated with quantum physics is that the original impetus giving rise to it, namely the pursuit of the elemental building blocks of the Universe (separate elementary particles) has become meaningless with the discovery that the Universe appears to be an undivided Whole in a perpetual state of dynamic flux.

Like Einstein's Theory of Relativity, that latest experiments and associated theories of Quantum Physics reveal the Universe to be a single gigantic field of energy in which matter itself is just a 'slowed down' form of energy. Further, Quantum Physics has postulated that matter/energy does not exist with any certainty in definite places, but rather shows 'tendencies' to exist. [Heisenberg's Uncertainty Principle]

Even more intriguing is the notion that the existence of an observer is fundamental to the existence of the Universe -- a concept known as 'The Observer Effect' - implying that the Universe is a

product of consciousness, beyond Universe and Supra-Universe are product of the Super-Consciousness. [The Mind of God concept]

"Through experiments over the past few decades physicists have discovered matter to be completely mutable into other particles or energy and vice-versa and on a subatomic level, matter does not exist with certainty in definite places, but rather shows 'tendencies' to exist. Quantum physics is beginning to realise that the Universe appears to be a dynamic web of interconnected and inseparable energy patterns. If the universe is indeed composed of such a web, there is logically no such thing as a part. This implies we are not separated parts of a whole but rather we are the Whole." [The Hands of Light, Barbara Brennan, American physicist]<sup>v</sup>

On the other hand, the methodology of contemporary Western science, which still taught in most of our educational institutions today, works on the basis of breaking the world into its component parts. Quantum Physicist, Dr. David Bohm stated, "primary physical laws cannot be discovered by a science that attempts to break the world into its parts." Bohm wrote of an "implicate enfolded order" which exists in an un-manifested state and which is the foundation upon which all manifest reality rests. He called this manifest reality "the explicate unfolded order". He went on to say "parts are seen to be in immediate connection, in which their dynamical relationships depend in an irreducible way on the state of the whole system . . . Thus, one is led to a new notion of unbroken wholeness which denies the classical idea of analysability of the world into separately and independently existent parts." [The Implicate Order]<sup>vi</sup>

The classical perception of the 'rules' of the Universe are changing to reflect the multiple-universes predicted by the Quantum Physics based mathematics. In other words, the mathematical formulae that were initially developed to describe the behaviour of the universe -- with multiple-universes -- turn out to govern the behaviour of the multiple universes and planes described in spirituality. Thus, the mathematics, which was thought to produce some absurd results, has in fact come to be relied upon to demonstrate that matter and energy somehow indeed change to behave in exactly that absurd manner to reflect the formulae!

Of course, all these notions completely contradict the understanding of reality held by most humans, whose perception of reality is still based upon "Linear Cause and Effect" Newtonian Physics, if only because Newtonian Physics seems to describe the observed Universe, as we knew it, so well at a preliminary level. (but not on a micro level such as subatomic 'particles' etc. or indeed at the level of accounting for acceleration and other unusual phenomena.)

Non-Locality is defined as that phenomenon in which occurrences on one side of the Universe can instantly effect 'matter' or 'energy' on the other side of the Universe. Non-locality has profound implications for the prevailing world view of reality in that it clearly demonstrates the inter-connectedness between all 'matter' and 'energy' in the Physical Universe and the illusory nature of Space and Time, something that those who have had some sort of deep spiritual experience are already well aware of.

### [Physics and Metaphysics](#)

"It should be remembered that the mere scale does not matter, for greatness and smallness are essentially relative. The destiny of each atom is to create a brahmanda. Brahmandas like or smaller or larger than ours, held together by a sun, are present in every atom. Vishvas, great world-

systems, exist in an atom, and atoms again exist in these vishvas. This is the significance of 'many from one'; wherever we see the one we should recognise the many also, and conversely. After securing the ability of, and then actually, creating a brahmanda, the next step is the creation of a jagat, then a vishva, then a maha-vishva and so on, till the status of maha-vishnu is reached." <sup>vii</sup>

From a science perspective, this paragraph is describing fractals.

Note: "held together by a sun, are present in every atom. Vishvas, great world-systems, exist in an atom, and atoms again exist in these vishvas." This is particle physics.

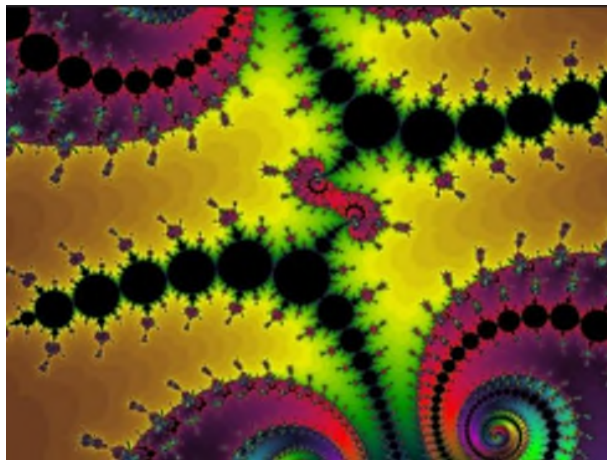
### Is Space/Time Fractal and Supersymmetric?



What if there is just one "law" that defines reality absolutely, i.e., all additional theories are only its fractal or iterative projections? This "law" may be the energy conservation or equivalence principle: the law that to every action there is an equal and opposite reaction. There is no effect without equal and opposite cause and vice versa! Hence, is Space the fractal reaction of Time, just as Time is the fractal reaction of Space? NOE postulates that Space and Time are inverse fractal projections of an inertial reality, in between, which is neither Space nor Time but both as depicted by Figure 1 Metatron's Cube which shows an inverse fractal. <sup>viii</sup>

**Figure 1 Metatron's Cube**

### Is Duality a Fractal Space/Time Reality?



Duality is a reality of two equal opposites, where one negates another. Above is real only in perspective from below; left is real only from right, black is real only in white contrast and right is real only in comparison with wrong.

One equal opposite needs to stand in repetitive or fractal negation of another in Space/Time to give the illusion of Duality. Space and Time are positive/negative results of self-comparison, because only self-interference is real! Space negates passage of Time and passage of Time negates Space.

Space/Time is double negation that creates singular affirmation, which is perceived as Inertia or Gravity. Double negation is affirmation...lix

Twisting and falling, rising bruised, screaming it may appear we move: in reality, is the space-time continuum moving, we get thrust to flow?

## Fractal Universe



The universe consists of a series of spiral bodies of diminishing size, each made in turn by plasma ejection and moulded by a spatial Coriolis effect: a rotating fractal universe.

In physical cosmology, Fractal Cosmology is a set of minority cosmological theories which states that the distribution of matter in the Universe, or the structure of universe itself, is fractal.

More generally, Fractal Universe relates to the usage or appearance of fractals in the study of the universe and matter. A central issue in this field is the fractal dimension of the Universe or of matter distribution within it, when measured at very large or very small scales.<sup>x</sup>

## Heisenberg Uncertainty Principle– Uncertainty or Unknown?

In quantum mechanics, the uncertainty principle, also known as Heisenberg's uncertainty principle, is any of a variety of mathematical inequalities asserting a fundamental limit to the precision with which certain pairs of physical properties of a particle, known as complementary variables, such as position  $x$  and momentum  $p$ , can be known simultaneously.

The Copenhagen interpretation of quantum mechanics and Heisenberg's Uncertainty Principle were, in fact, seen as twin targets by detractors who believed in an underlying determinism and realism. According to the Copenhagen interpretation of quantum mechanics, there is no fundamental reality that the quantum state describes, just a prescription for calculating experimental results. There is no way to say what the state of a system fundamentally is, only what the result of observations might be.

Albert Einstein believed that randomness is a reflection of our ignorance of some fundamental property of reality, while Niels Bohr believed that the probability distributions are fundamental and irreducible, and depend on which measurements we choose to perform. Einstein and Bohr debated the uncertainty principle for many years. Some experiments within the first decade of the twenty-first century have cast doubt on how extensively the uncertainty principle applies.

## Einstein, Podolsky and Rosen (EPR) Paradox for Entangled Particles

Bohr was compelled to modify his understanding of the uncertainty principle after a thought experiment by Einstein. In 1935, Einstein, Podolsky and Rosen published an analysis of widely separated entangled particles. Measuring one particle, Einstein realized, would alter the probability distribution of the other, yet here the other particle could not possibly be disturbed. This example led Bohr to revise his understanding of the principle, concluding that the uncertainty was not caused by a direct interaction.

But Einstein came to much more far-reaching conclusions from the same thought experiment. He believed the "natural basic assumption" that a complete description of reality, would have to predict the results of experiments from "locally changing deterministic quantities", and therefore, would have to include more information than the maximum possible allowed by the uncertainty principle.

In 1964, John Bell showed that this assumption can be falsified, since it would imply a certain inequality between the probabilities of different experiments. Experimental results confirm the predictions of quantum mechanics, ruling out Einstein's basic assumption that led him to the suggestion of his hidden variables. Ironically this fact is one of the best pieces of evidence supporting Karl Popper's philosophy of invalidation of a theory by falsification-experiments. That is to say, here Einstein's "basic assumption" became falsified by experiments based on Bell's inequalities.

While it is possible to assume that quantum mechanical predictions are due to nonlocal, hidden variables, this resolution is not satisfactory to the vast majority of physicists. The question of whether a random outcome is predetermined by a nonlocal theory can be philosophical, and it can be potentially intractable. If the hidden variables are not constrained, they could just be a list of random digits that are used to produce the measurement outcomes. To make it sensible, the assumption of nonlocal hidden variables is sometimes augmented by a second assumption—that the size of the observable universe puts a limit on the computations that these variables can do. A nonlocal theory of this sort predicts that a quantum computer would encounter fundamental obstacles when attempting to factor numbers of approximately 10,000 digits or more; a potentially achievable task in quantum mechanics.<sup>xi</sup>

Let's postulate that quantum mechanical predictions are due to nonlocal, hidden variables<sup>xii</sup> leading to [The Unification of Quantum Mechanics, General Relativity and Consciousness](#).

This leads us to the crux question: does the universe consist solely of waves of motion manifest as sound and light, where matter is an alternative manifestation of energy per Einstein's  $E = mc^2$ ?

## Neutrinos and Einstein

Albert Einstein is considered to be the father of modern physics. His theory of relativity is the building block on which our scientific understanding of how things move in the four dimensions of space-and-time rests. Our physical bodies and material universe exist within that same space-time continuum. However, Einstein might have been wrong!

## Flawed Assumption?

Many scientists, including Einstein in 1905, had assumed that certain forces or particles or waves - including light and radio -- travel at a certain fixed speed in a vacuum, relative to the observer. And that nothing can travel faster than that. It was inspired guesswork, backed up as usual by elaborate mathematical formulae. Out of that basic assumption, Einstein and other "experts" concluded that the fastest thing of all was photons, which they referred to as "the speed of light." Light, they collectively stated, can travel at 299,792 kilometres per second or 186,282 miles per second, and nothing in the entire cosmos can outrun it.

## What are the Implications?

All great revolutionary discoveries in science started out with an unexpected discrepancy that wouldn't go away. So, if neutrinos are capable of superluminal -- faster than light -- motion, then what are the implications of this for science and society in the 21st century?

1. *Einstein's special theory of relativity would then be null and void.* It would need to be replaced by a new theory: one that encompasses [\*faster than light travel\*](#). Einstein's relativity states that whether an object is at rest or in motion is highly subjective to the perspective of the person viewing that object and also that the speed of light is a constant, physical barrier and that to surpass it would take an infinite amount of energy. CERN's neutrino experiments are challenging some of those basic assumptions.
2. *The general principle of temporal cause and effect would be disrupted, replacing the concept of time-imposed consequential duality with the [\*notion of underlying non-duality or unity consciousness\*](#).* The corollaries of this scientific sea-change are phenomenal, and it may well be that our perceived reality influences the underlying unified reality reflexively. These herald a new era beyond Newton and Einstein. What we think and imagine has a fundamental consequence upon events and may be as germane to them as our actions. Perhaps our intentions, aspirations and observations, are not simply a prelude, but actually influence the present scene and final outcome. What Heisenberg's uncertainty principle was alluding to may only be the tip of the iceberg as far as a deeper understanding of our relationships is concerned, which is yet to come. "Omnia vivunt, omnia inter se conexas" or "*Everything is alive, everything is interconnected,*" as Cicero proclaimed in Rome, half a century prior to the birth of Christ.
3. *The standard model of particle physics would need to be [\*adjusted to incorporate superluminal particles\*](#).*
4. One explanation for how neutrinos are able to travel faster than the speed of light is that they are not actually travelling in a straight line but hopping into one of the separate dimensions predicted in NOE, which acts as a kind of shortcut. *It is postulated that neutrinos travel through a fifth dimension.*



# Conclusion

The Question is not what's the Answer?

The Question is what's the Question?

Is it all an elaborate Magic Show?

Is Reality an ephemeral Perception, an Illusion?

What is the framework of this Synchronised Matrix machine?

What triggers Darwin's Puzzle: Evolution via Natural Selection?

Quantum Intelligence: Where does Space-Time come from?

Quantum Entanglement: Why does distance not matter?

Is there any answer save Unity Consciousness?

What's Out There Which Isn't Within?

What we see, why it changes with Observation?

Ah! so, the Phantasm is just a Magic Show?

How then to decrypt it, why not harness it?

So, go, go with the Fractal flow...



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## Endnotes and References

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