



Mind Wave: How the Mind Builds Life

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Abstract

Einstein's general theory of relativity, theoretically and experimentally, stated that emptiness is really a substance. This substance is called fabric of space and supports all material and energy in the universe. As we know the universe started from the Big Bang and many waves occurred in the fabric space. Then the waves changed to energy, energy changed to mass.

The mind behaves similar to a wave frequency, meaning that the occurring and the disappearing of the mind would be as fast as 4 trillion times per second. This could mean that the mind is able to communicate with the mass of space, which is like the waves. We know the mind keeps all of karma for the data base for the next life. The mind may not keep all this karma in itself. The mind may keep it somewhere in the fabric of space.

The fabric of space could be like storage, collecting karmic information, which the mind could build relationships with. When there is a new life in this world, each one would then take responsibility for what they have ever done.

Keywords: Mind Wave, Gravitational Wave, Time and Space, Karma

Introduction

In accordance with the space-time theory of Einstein, space itself is something. Any phenomenon in the cosmos would be a result of space. This was a very challenging idea to the theory of Newton (classical mechanics). Besides that, Einstein revealed that the speed of light was constant in every place of the universe, but the space-time, the mass, and the distance could be changed in both size and quantity. Einstein said that in a total solar eclipse, the solar prominence and the solar corona would be shown despite the evidence that it should be totally dark. As per Einstein, this solar phenomenon is from the fact that the light is bending, making the travelling of the light bend space around the objects before it would reach an observation area.

Einstein compares space to a large piece of canvas; many stars are rolling on such a canvas and the light also travels upon this canvas; when the light moves and touches objects like stars, the light would also bend around the objects. This space canvas has never stopped vibrating since the occurrence of the Big Bang 14,000 million years ago. Although the space-time theory affirms that the mass of space exists, Einstein was never able to experimentally prove the existence of the space substance, he could only provide noticeable natural phenomenon. It wasn't until the concrete discovery of the gravitational wave by the scientists in LIGO (The Laser Interferometer Gravitational Wave Observatory) project that this wave's existence in the space was accepted, as well as the confirmation of the mass of space which moves and incurs such a gravitational wave.

According to string theory, in each universe, there is a space fabric which is 200,000 times smaller than electrons. The Big Bang creating the universe caused the space to be pressed until it became inflated like sponge in boiling water. Upon that explosion, the space fabric crossed each other chaotically creating knots. After that, when the high-temperature of space fabric cooled to zero-degree Kelvin (-273.15 degree centigrade) those knots became quarks and developed in to larger particles, including neutrons, electrons, and protons. In consequence, these particles would turn into the substance in the universe.

Given that there is the mass of space and such masses are expanding infinitely, the existing mass of the space would be ready for any incoming data. The researcher thinks this characteristic deems further study. Space may be storing some data including Karma or results of people's actions.

The Buddha teaches:

“... I am the owner of my (Karma), heir to my (Karma), born of my (Karma), related to my (Karma), abide supported by my (Karma), whatever I shall do, for good or for ill, of that I will be the heir.¹”

In both cases, we could not escape from our Karma or space. In other words, no creature can hide from the Karma database wherever or in whichever universes they were born.

The Buddha taught:

... This spirit travelling so far (absorbing that far emotions), travelling individually (once at a time, one spirit is gone; the same spirit would then be born, not at the same time), no appearance (no physical; no color), living in a cave (living in the four primary elements based on the heart shaped substance) ...²

This teaching supports the papers proposition in two ways. Firstly, The mind shall be soulless, non-self, with no physical appearance. The mind then can be considered as anatta. If the karma database is with the mind, the mind would then be large enough to store huge files since Karma data must be gigantic. In reference with this part of consideration, it is impossible for a mind to record the data itself.

Second reason: The mind consumes no space or is non-physical matter staying beyond any control of the time-space. People could usually notice the spirit when it appears through a body because the mind needs a residence like the body. For this part of consideration, the writer thinks that the non-self status of the spirit does not consume any area in the space. The mind then cannot record any Karma data; its duty is only being part of the body forming in relating to each source of Karma database at a time.

According to the above mentioned grounds, the writer is then interested to study where and how the mind records Karma data. If the mind is non-self, it shall not be able to store Karma data. It is necessary for the mind to have storage and the mind shall have processes that connect to this storage which could be anywhere in the universe. The writer also believes that it is very difficult to explain this idea, especially due to the fact that many centuries ago, there wasn't high-technology equipment that could test these ideas. During this current era, science has verified many of the theories this paper bases its propositions on.

¹M. I 581.

²Kh II 234.

The gravitational wave officially discovered on February 17, 2016 supports the theory that space does contain mass. The space covering the whole universe could promote a belief in the Big Bang theory which focuses on the inflation of the mass of space.

All of the above explanations have pointed to a possible relationship between the mass of space, non-self-status of the spirit, and the re-birth of creatures. A body forming is factored by the first sub consciousness and based on the beings' Karma database. It is vital for the spirit to have its database sources since it cannot carry the data as per its non-self-status. Relating to the mind not being able to handle gigantic data, the relationship of the mind of the mass of space should then be material. But how both of them communicate and are linked would need to be later studied.

Universe Originated From a Unit of Space

The Big Bang theory mentions the existence of the mass of space which accumulated enormous energy at one tiny point and then exploded and inflated within less than 1×10^{-43} seconds or within less than a trillion-trillionth of a second. After the Big Bang, the expansion of a gigantic amount of waves and energy had continued, but humans could not have hear the sound of such an explosion because it was at a very low frequency. When the wave and heat energy bumped against the surrounding space having low temperature of 0°K , the wave and energy transformed to mass. During the beginning stage of such an explosion, the universe was full of 4 types of waves.



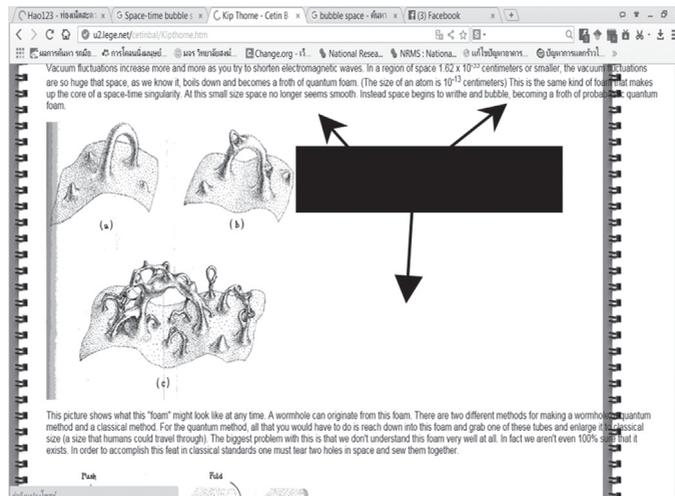
The inflation of the mass of space is similar to an air bubble. When such mass of the space is exposed to cold temperature crystallization would be shaped around the air bubble.³

³<http://designtaxi.com/news/381485/Watch-A-Soap-Bubble-Freezing-Almost-Instantly-On-A-Cold-Winter-Day/>

Such waves would be transformed to particles after they attacked the cold temperature. In this research, the writer mainly discusses the processes related to the four waves only such as the electromagnetic radiation developed to be photon or the light particle, the weak nuclear force changed to electrons, the strong nuclear force built to be protons, and the gravitational wave developed to be the gravity particle. The reason why the gravitational wave is stated above for its development is because scientists previously were not sure how to discover the gravitational wave; the only thing scientists had for reference is Newton's theory of gravitation.

Einstein's idea of the gravitational wave was only a theory that could not be verified by the instruments of his time. The recent discovery of the gravitational wave has verified this theory.

The origin of Multiverses in this huge unit of space is the inflation of a lot of air bubbles that originated a new universe, as per the Big Bang theory. Each air bubble might be compared with our universe as per the picture below.



The space is like boiling foams connecting to each other with a Black Hole.⁴

⁴<http://u2.lege.net/cetinbal/Kipthorne.htm>

Air bubbles could be continuously inflated depending on the amount of pressure. A number of universes consequently would be initiated and become Multiverses.

Parallel Universe

Within our universe, the parallel universe could exist due to the little-known particle called antimatter, which is a particle having opposite charges but comprising of the same atomic structure. Few samples of the antimatter include hydrogen, containing the same mineral mass but opposite charges called anti-hydrogen, and carbon consisting of anti-carbon. In reference to this condition, some scientists provide an opinion that there is really a parallel universe. What is seen is merely half of reality similar to a mountain being partly shown above the ice. Moreover, our universe would be expected to have some unrevealed substance and some disclosed energy which we cannot directly see or which does not react with the electromagnetic force. The light providing us the visibility for seeing things is considered the electromagnetic force. The seeing ability of any substance including darken substance is the effect of light refraction when passing the substance. This is similar to the gravitational wave which scientists have just officially found in February 2016; and this was more than a hundred years after Einstein had introduced his theory to the world. Nevertheless, many scientists have verified and agreed that the space contains some mass or some substance.

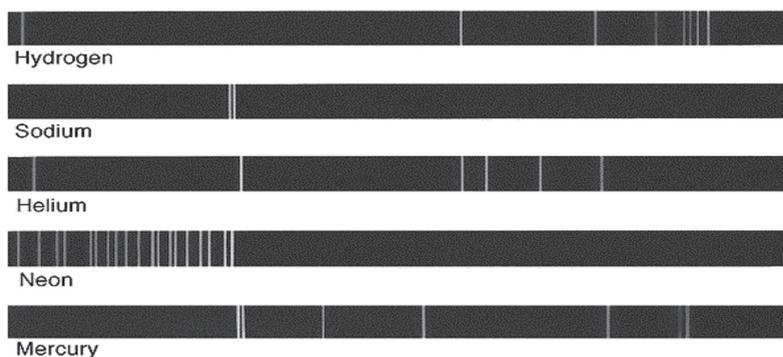
Wave – Energy – Substance

Formerly, scientists had treated and studied energy and substance separately; heat energy and other kinds of energy did not relate to any other substance. However, when Einstein had distributed his study that substance and energy were identical in accordance with his model $E = Mc^2$, scientists then could completely explain the formation of the universe. Additionally, the explanation could cover a question why a newly born universe having only wave and energy was able to generate substance. Einstein did fulfill this knowledge that the energy, which was the fruits of such explosion, attacked the cold surrounding atmosphere for some time and then the energy had been transformed to be a substance as per the following steps stated in the theory: Energy - > Particle - > Atom - > Molecule - > Element - > Substance. However, what is still a mystery is the process by which a wave is converted to energy as the universe initially contained only the wave.

Later, Max Planck revealed that energy actually stayed together since an atom internally vibrated and a substance would then release a chunk of energy. This led to the

introduction of quantum physics which elaborated a phenomenon of smaller-than-atom particles. His model $E = nhf$ was consequently written. Quantum theory is different from Newtonian mechanics for several reasons. Quantum physics is adopted for explaining phenomenon of tiny particles and energy while Newtonian mechanics cannot explain such particles and energy; the Newtonian mechanics usually correlates with a direction of an object when the quantum physics does not relate to the direction as it highlights only appearance.

This technology allows us to be able to determine qualifications of objects by using an impulse making the objects discharge energy. This energy is generally known as a spectrum which could be used to measure the length of a wave related to an object. In astronomy, this technology is utilized for determining types of minerals available in each star.



The above picture shows that in each object, there are many different minerals which are in a spectrum.⁵

From the above elaboration, the discovery of wave-particle theory happened. Particle and energy could interchange with each other. The light from the sun travels to the earth through as electromagnetic wave stage; when the light reaches the earth impacting an object, the electron of the object would then be released from the object. We can explain why a color of an object would be pale after it has been exposed to the sun for some long time.

It is difficult to determine when the particle would be changed to a wave or a particle. However, it would be quite amazing if the mind could influence the wave particle. During the Double Slit Experiment, a particle is reinforced passing through the two slits; normally,

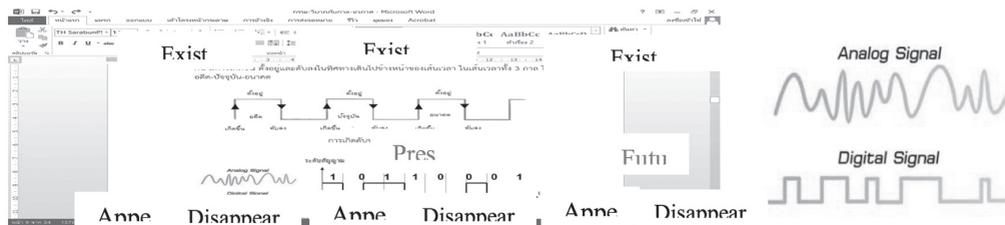
⁵https://thornburghchemistry.wikispaces.com/file/view/FG04_003_PCT.gif/130362033/FG04_003_PCT.gif, April 20, 2016.

after the reinforcement through the slit, the particle would turn into wave immediately. However, if we observe the process, the particle does not transform into a wave; it would still maintain its particle status and then pass one of the two slits like a marble.

So, one could say that the wave, the energy, and the substance correspond to each other. The mind may interfere with this natural process. We could state that the wave is the cause of the substance, called wave-matter. If the object will be controlled by the mind, the mind behavior may behave similar to the wave.

The Mind Behaves Similar to Waves

The mind normally follows this process: arising stage - existing stage - disappearing stage. This process continues forever. However, the behavior of the mind wave could not be proven using empirical testing. Though this idea has not been verified by science, many scientists do not deny its validity. According to the commentary, Atthakatha, during the period it takes to snap a finger, the mind appears and disappears for 10^{12} times, which equals 4×10^{12} (4 THz), or that there are 4 million mental moments within one second. This could be compared with the analogue electromagnetic signal and digital electromagnetic signal as in the following picture.



Three stages of mind versus electromagnetic waves.

The Double Slit experiment has led to a possible summary that the consciousness mind could communicate with an object at the particle level, given that the particle is one component of such an object. Some scientists mentions that an object is wave-matter; the mind could influence an object due to the wave characteristics of the mind.

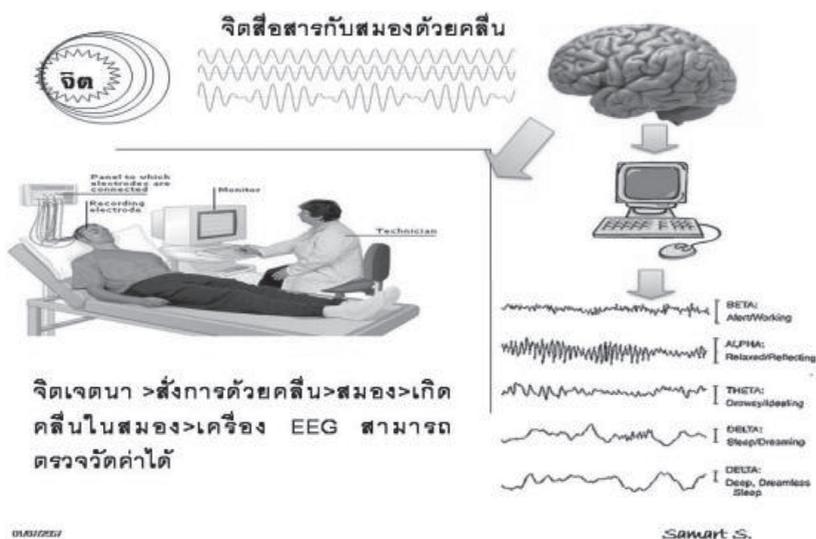
The Mind Uses Space as Karma Database

It is widely accepted in Buddhism that beings are born and die, and this process is repeated for innumerable times. Each birth would be based on previous Karma. From the concept that a mind is non-self, a body of the mind could not physically exist because its Karma data (from previous uncountable births) is enormous and impossible to be physically stored. The writer thinks that the mind can only communicate with the Karma storage since each creature has its own Karma. This means each mind would have different characteristics due to different Karma from their past; otherwise, one mind might take the results of what another mind had done.

The Wave-Matter Mind Identifies Creatures' Characteristics

People have different minds; the mind of one person is different from a mind of another person. There are 52 mental factors, which are like a barcode of the mind that is also unique to each mind. In addition, a human contains the six types of characteristic behaviors, meaning humans would act or behave differently and the acts fall into one of those six types. One twin brother does not have the same characteristic behaviors as the other twin brother. Despite them being groomed in the same environments, their abilities and habits could be totally different. This supports the concept that each mind (of each person) has an individual Karma database. The 52 mental factors would lead the mind as per its familiarity or its past Karma. The writer thinks that a wave-matter mind shall be based on different characteristic behaviors and shall possess different characteristics. When the mind would transmit its wave, such a wave could not be intervened by another mind; as a result, the Karma effect responsible by each person cannot be wrong. Other questions arise: what does the mind communicate with, and how does the mind communicate? There is a study explaining that a mind could transmit a wave and then touch an object.

1. Electroencephalography (EGG) is a method or equipment used for checking electrical wave patterns of the brain. This equipment could scan the brain and present a wave-like graph. This implies that communication of the mind would be similar to a wave pass through the brain.



2. In the experiment of Dr. Masaru Emoto, he studied forms of water crystal which had been changed in accordance with changing mental environments. The result of his study shows that crystals of water are different when water depending on if it was placed in a good environment or a bad environments. The changing form of crystals may imply that the structure of molecules in water changes by a wave, similar to a microwave. In reference with the picture below, praying could be like releasing energy.

Crystals before a pray

Crystals after a pray

Besides the previously mentioned experiment, there are other experiments related to this idea. An experiment in Project PEAR (The Princeton Engineering Anomalies Research) tested the deviation of an object which received energy from the mind. Another experiment by Lynne McTaggart managed to send out energy from a mind to heal a patient at a remote place.

In the opinion of the writer, since the mass of space lays layer by layer it could then store data. A mind possesses wave-matter characteristics which could communicate with the space and the data transmitted from the space is individual and unique. The non-self mind would have qualifications in accordance with Karma data stored in the space. In summary, the writer would like to conclude the relationships between mind and scientific phenomenon as follows:

Characteristics of Mind Regarding Integration of Modern Science

Characteristics of Mind	The Integration of Wave and Energy
No physical body	Being similar to the wave
Consume no space	Energy takes no space.
Moving fast	Speed of the birth and the disappearance is fast similar to the wave
Be able to move far	Wave can travel any far, especially electromagnetic wave, which can travel 300,000 kilometers per second
Pure and Innocent	Purely white which actually combines all of the colors
Emotional absorption	Communicate with various objects; same as the wave
Accumulate Karma data	Need a storage; mind is just a communicator
Keep continuing (appear and disappear)	Wave also continues to create some signals
Create amazes	Upon characters of the wave, it could be interfered anytime, and would intervene with other things.

Conclusion

With reference to all of the aforementioned explanations, the summarized key points include: the mind is just like wave, and that each creature has its own and unique characteristics upon the characters of the mental factors; the mind could not record its own Karma data by itself since it has the non-self-status (anatta) making it impossible for the mind to store such Karma data with it; the mind itself could only act as a communicator with a source of Karma data contained in the fabric of the space; this mass of the space shall possess an activation qualification which consequently would lead to the formation of the universe in which the wave could be transformed to be energy and then changed to substance.

Since the fabric of space would cover the whole universe, any creatures reborn could not escape from it. This corresponds with the Buddha's teaching on Karma. Beings have their own Karma and take responsibility for that Karma.

Karma is the cause of one's birth; whatever one has done, good or bad, they are the heir of such Karma. A possible explanation for this is that for each body forming, the mind would interact with or pull data from the mass of the space impacting such formation.

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