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## **REVIEW ARTICLE**

# DOES WAVE FUNCTION (Ψ) GET REAL IN QUANTUM EXPERIMENT? [3] ANSWER IS – NO, IT IS ONLY A MATHEMATICAL TOOL. MIND INCORPORATION IN PHYSICS

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ARTICLE INFO	ABSTRACT
<i>Article History:</i> Received 04 <sup>th</sup> January, 2015 Received in revised form 17 <sup>th</sup> February, 2015 Accepted 23' <sup>d</sup> March, 2015 Published online 30 <sup>th</sup> April, 2015	The effects of matter and energy are different in different branches of science. In physics the effects are classified as classical physics and quantum physics. While in life sciences the effects are not physical rather they are associated with thoughts also. What are the basis of physical sciences as well as of life sciences or how laws of physics as well as of life sciences are made that is to be discussed in a very simple way. The reason being one is not equipped with structure of the matter, origin of the universe and atomic genes as taught by participatory science. The standard model not only modified rather it has been completed [9] with introduction of energized gravitons, primary fermions, primary bosons, Basic Building Blocks, Mind and Tachyons. Almighty B.B.B could predict precisely whether Schrödinger's cat is alive or dead without opening the box. The way is that every event (dead cat or alive cat) is being fed back to Highest center of the universe by first transcription (Quantum entanglement explained) (Fig 3.1)
<i>Key words:</i> Physics, Quantum entanglement, Building Blocks.	

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### **INTRODUCTION**

The Schrödinger equation determines the allowed wave functions for the system and how they evolve over time. A wave function behaves qualitatively like other waves, such as water waves or waves on a string, because the Schrödinger equation is mathematically a type of wave equation. This explains the name "wave function", and gives rise to wave– particle duality.

The wave of the wave function, however, is not a wave in physical space; it is a wave in an abstract mathematical "space", and in this respect it differs fundamentally from water waves or waves on a string (file:///C:/Documents%20and%20 Settings/hp/Desktop/Wave%20function%20-%20Wikipedia,

%20the%20free%20encyclopedia.html). Comparison of classical and quantum harmonic oscillator conceptions for a single spin less particle. The two processes differ greatly. The classical process (A–B) is represented as the motion of a particle along a trajectory. The quantum process (C–H) has no such trajectory. Rather, it is represented as a wave. Panels (C–F) show four different standing wave solutions of the Schrödinger equation. Panels (G–H) further show two different wave functions that are solutions of the Schrödinger equation but not standing waves

\*Corresponding author: Das, V. M. Department of Surgery, University of God, Das Nursing Home Pvt. Ltd, Fatehgarh, 209601, U.P., India Wrong Depiction of Dual Nature of Electron and phenomenon of Quantum Tunneling (https://in.images.search.yahoo.com/ yhs/search;\_ylt=A2oKmM1anwFVUmUAjannHgx.?p=tunnel +effect+in+physics&fr=&fr2=pivweb&hspart=CND&hsimp= yhs-002&type=A2E3463EF79\_s55\_g\_e)

### Structure

As far as fundamental research is concerned, physics education and research has come to halt. Unification of forces i.e. GUT and super unification theories have yet to be proved. No efforts have been made to investigate about structure of matter beyond lepto-quark. In life sciences no efforts have been done to investigate about mind and about synchronized working of mind and mass. There are different disciplines to study different branches of sciences.

Physical sciences has got different discipline while life science has got different. A new discipline by the name Participatory Science has been worked out that would lead us to know about nature (micro and macro both) that is responsible for not only about different observations (both physical as well as of life sciences) but also of about different realizations. The whole research is presented in a thesis form involving experiments, observations and inferences.

Structure of the matter or mass (Fig-1 and Fig-2)



Matter is made up of molecules, molecules are made up of atoms, and the atoms are made up of nucleus and the electrons which revolve around the nucleus. Electrons are also called leptons. Nucleus is made up of protons and neutrons. Protons and neutrons are made up of quarks. So lepto-quarks are supported to be the smallest matter particles. But according to participatory science, lepto-quarks are not fundamental particles of the matter. We have explored the nature beyond lepto-quarks. We have found that lepto-quarks are made up of energized gravitons and secondary bosons. Energized gravitons are made up of gravitons and primary bosons. Finally, gravitons are made up of two types of basic building blocks (B.B.Bs) called matter B.B.B. and energy B.B.B. While primary bosons are made up of one type B.B.Bs. called energy B.B.B. The other name of these B.B.Bs. are YANG (matter B.B.B) and YIN (energy B.B.B.). The size of the mass of these particles is reducing and then B.B.Bs. are the smallest mass

particles of which all fermions and bosons are composed. From these fermions and bosons all the matter (visible as well as invisible) of the universe is formed including the human cells

### Basic Building Blocks (B.B.Bs) of the Universe

These B.B.Bs. are the smallest structural and functional units of the universe. Upon these B.B.Bs., ATOMIC GENES are found. These basics units are divine in the sense they talk with each other by phenomenon called atomic transcription and translation. These are fundamental particles and atomic transcription and translation is fundamental working of the nature. These B.B.Bs have power to transmutate to form any bigger unit of the universe like field particles, Lepto-quark particles, atom, molecule, complex molecules of the life, organelle, cell, tissue, organ, system, individuals, earth, solar system, galaxy, etc., etc.. So all effects of the universe are triggered by atomic transcriptions or thought expressions. The properties of these two basic units are opposite. This would be explained during the discussion of inertial properties of the matter while giving definition of the energy (E) and matter (m) of the expression  $E=mC^2$ . Therefore, this is called unity of opposite or unity of complementary particles.

### Weaving of Different units of the Universe

It is these divine basic units that have woven all the structures of the universe. These two B.B.Bs. have joined to form gravitons, while energy B.B.Bs. have joined to form primary bosons only. Later, gravitons and primary bosons have joined to form energized gravitons, while primary bosons only have joined to form secondary bosons (photons, vector bosons, gluons). Binding energy (B.E) is nothing but a type of energy which is responsible for binding the matter B.B.Bs to one another along with marking the created particle (fermions) to spin. The details would be given during the discussion of creation physics. Later energized gravitons and secondary bosons have joined to form lepto-quarks. Quarks along with secondary bosons from protons and neutrons. Finally electrons revolved around proton forming atom. It is these divine B.B.Bs. which are transmutated into atoms. Atoms have joined to form molecules, complex molecules of life, organelle, cells, tissues, organs, systems, different individuals. Similarly, atoms have transmutated into planets, solar systems, galaxies, super galaxies and invisible universe. So, basically these divine B.B.Bs. are everywhere in the universe or we may say they are OMNIPRESENT. The omnipresent is defined as GOD in all religious books. Therefore, B.B.Bs are God Particles.

### Nomenclature of atomic genes

In participatory science, we take similarities from biological world to understand the B.B. Block world. One who knows biological transcription and translation, can also understand atomic transcription and translation. Cell is anatomically and physiologically unit of the body. Similarly B.B.Bs. are structural and functional units of the universe. Cell functions (metabolic) are controlled by biological transcription and translation. Similarly, B.B.Bs. functions are controlled by atomic transcription and translation.







Biomolecules take part in biological transcription and translation are

DNA- message storage system.

**mRNA-** messenger molecule (carries message from nucleus to cytoplasm).

**Ribosome-** translating molecule (it translates the message and works accordingly).

Similarly, atomic genes that take part in atomic transcription and translation are

**CCP-** thought storage system (omniscience). It is similar to **DNA** of the biological world.

**CodePCPs-** messenger atomic genes. It similar to mRNA. **CP-** translating atomic genes. It translates the messages and realizes the message and reacts accordingly.

### Message system of the Universe

Before the origin of the universe nature had only one type of message systems which is called FIRST TRANSCRIPTION. Messages used to go from one B.B.B. to another B.B.B. by

atomic transcription. Messages were carried by atomic genes with very very high velocity. It is the fundamental message system. After the origin of the universe, nature created atoms. It also created one more message system called SECOND TRANSCRIPTION. Here the message (code Pcps) are carried by photons from one atom to another atom with velocity of light. Thus atoms, molecules, cells, and even individuals talk with one another. After the formation of the cell, nature created one more system called THIRD TRANSCRIPTION. Here there is a message storage system formed by DNA. There are messenger molecules called mRNA that carry message from DNA script to cytoplasm where the message (code PCPs) is read or translated by ribosome and they work accordingly. Thus the messages reach to enzymes and hormones and finally messages reach to target units. Having received the messages, target units work accordingly. Finally life effects (metabolic) are observed. These three types of message systems are working in the nature. These message system are being used by the nature according to nature's need (Fig-3).

# Message network of the Universe (Feed Back Mechanism and different centers of the Universe)

With the origin of universe, nature first created primary units i.e. primary fermions (gravitation) and primary boson, these



primary units are equipped with one higher center (one B.B.B.) and rest of the B.B.Bs. are working as lower centers or target B.B.Bs. After primary units, nature created secondary units i.e. secondary fermions and secondary bosons. Similarly nature created tertiary units (lepto-quarks) and then quaternary units (protons & neutrons). Each unit is equipped with higher centers, lower centers and target B.B.Bs. After quaternary units nature created atomic units, molecular units, complex molecules of life units, organelle units, cell units, tissue units, organ units, system units and individual units. Each unit is equipped with higher centers, lower centers, and target B.B.Bs. Similarly nature created satellite units, planet units, solar system units, galaxy units, super galaxy units, dark matter layer unit. These units are also equipped with higher centers, lower centers and target B.B.Bs. Thus our universe is divided into different units and each unit is equipped with higher and lower centers.

All higher centers are under control of highest center of the universe by efferent paths. This efferent path is made up of first transcription. Higher centers can send messages to highest center of the universe by afferent path or feedback path. Thus highest center of the universe is well informed about all effects of the universe. Messages can come from lower centers to higher centers and from higher centers to highest center of the universe via afferent path. The highest center of the universe can send messages to higher centers and from higher center to lower centers. There is an inter unit message network also which is made up of first, second and third transcription depending upon the nature's need. Thus the entire universe is under control of highest center of the universe. Highest center can change any programming programmed by it during pre creation era.



Fig. 3.1.



wrong depiction of tunnel effect [2]

What is tunnel effect? Discuss the Alpha decay as an example of tunnel effect. Prove that tunneling increases on decreasing the height and width of the barrier. Explain what do you mean by mean by the terms potential well and potential barrier. Obtain an expression for transmission coefficient of a rectangular potential barrier.

Where  $U_0$  = height of the rectangular potential barrier. Draw graphs showing variation of T with particle energy E and barrier width a.

What is quantum mechanical "tunneling" ? Give one example.

### **Potential Step**

If a particle having energy less than  $V_0$  i.e.  $E < v_0$  approaches this barrier form the left i.e. from 1st region, classically the particle will always be reflected and hence will not penetrate the barrier. However, ware mechanics predicts that the particle has some probability of penetrating to region, the probability of penetration being greater if and a are smaller. Moreover, if E>V0 classical mechanics predicts that the particle will always be transmitted; while according to wave-mechanics, the particle has a finite probability of transmission and hence it is not certain that, the particle will penetrate the barrier. If a particle with energy E is incident on a thin energy on a thin energy barrier of height greater than E, there is a finite probability of the particle penetrating the barrier. This phenomenon is called the tunnel effect. This effect was used by George Gamow in 1928 to explain the process of decay exhibited by radioactive nuclei.</v

### **Applications of Tunnel Effect**

Emission of particles from radioactive nuclei of Alpha-decay. The average energy of an particle formed within the nucleus is less than the height of the potential barrier around the nucleus which is formed by the nuclear binding forces. Classically, the particle cannot escape from the nucleus, but Quantum mechanically it tunnels the barrier. This tunneling constitutes radioactive decay. The decay of nuclei by emission of an alpha-particle can be regarded as a tunneling process. A radioactive nucleus can be thought of having an alpha particle (a helium nucleus) trapped in a spherical potential well arising out of extremely strong nuclear attractive forces between the nucleons. These attractive forces are short range. They operate on the particle so long as it is inside the nucleus. Once the alpha-particle is out of the nucleus Coulomb repulsive force operates between the positive charge of alpha-particle and the positive charge of residual nucleus. This electrical repulsion is negligible when the alpha-particle is under the effect of a strong attractive nuclear force up to a certain distance (nuclear size) after which long range coulomb repulsive force operates on it.

As the exact form of nuclear forces is still unknown, the potential as seen by the alpha-particle is generally represented as shown in fig. Thus there appears a potential barrier height E < V (coulomb repulsive barrier), then according to classical mechanics such alpha-particles cannot come out of the nucleus. But because of wave nature they actually have small probability of tunneling through the barrier. The tunneling probability per unit time is equal to the number of bounces per unit time multiplied by the tunneling coefficient per of the natural radioactive nuclei is of the order of 107 m/sec. and the nuclear size is of the order of 10-14 m, the alpha particle strikes the barrier about 1021 times per second. Each time it bounces the barrier the probability that it penetrates the barrier is equal to the transmission coefficient T. Hence the tunneling probability per unit time is for a barrier much higher than the energy of the particle and the barrier width a = R c - R from fig. the decay rate is thus determined predominantly by the exponential factor in T. Its value is very sensitive to actual shape of potential curve and can vary significantly in order of magnitude from nucleus to nucleus. Thus qualitatively it is possible to explain decay as an example of quantum mechanical Tunnel effect.

Stability and beta decay (as regard structure of nucleus it is a wrong depiction) Electron tunneling out from nucleus by decay of neutron.

To understand atomic genetics and tunneling effect we have to understand **CAUSE AND EFFECT CONCEPT** (Fig- 4). The law states that the barrier is conscious barrier and the particle could tunnel out only when the barrier allows it to tunnel out.

# How does nature work & triggering of normal & abnormal effects (Fig-4 and Fig 5)

To uderstand creation physics we have to see Fig- 4 and Fig -5. There are two types of thought stimulation.



(as regard structure of nucleus it is a wrong depiction)



Fig. 4.





Fig.5.

One is CONDITIONED THOUGHT STIMULATION and other one is UNCONDITIONED THOUGHT STIMULATION.

**STIMULATION OF THOUGHT EXPRESSION** - There are two types of thought expressions one is CONDITIONED STIMULATION of thought expression, and other one is self stimulation of thoughts i.e. UNCONDITIONED STIMULATION of thought expression.

At the time of the origin of the universe, all effects got created. The cause of all effects of the universe is **THOUGHT** expression. These thought expressions were triggered by **UNCONDITIONED OR SELF STIMULATED WAY**. It is the first step and it is followed by **PROGRAMMING** or formation of programmed messages by code PCPs. This programmed message moves from higher centers to target B.B.Bs. it is called **INTERACTION**. Having received the messages, the mind and mass of the target B.B.Bs. work in a synchronized way so as to produced the effects as thought by a the higher center. If the thought expression by higher center is normal, the shapes, properties and laws produced by target B.B.Bs. would be normal and if the thought expressions are abnormal, the shapes, properties and laws would be abnormal. This is the basic concept of transmutation phenomenon. Finally what we observe is called EFFECT. Appearance of shapes. properties and new laws is called TRANSMUTATION. The first three steps are collectively called CCP. During transmutation process if CCP is written, it does mean that unless the thought, programming and interaction take place, nature cannot transmutate. Transmutation phenomenon is seen in particles, atoms, molecules and even in cells. The basic steps of any transmutation remain the same except that the thought expressions differ.

The subatomic particle are made up of more fundamental particles called Basic Building Blocks (B.B.Bs) which are made up of mind and mass. These B.B.Bs are divine in nature with the result they talk with each other by phenomenon called atomic transcription and translation (thought expressions). The triggering of broken symmetry is caused by atomic transcriptions. Unless the atomic transcriptions occure, subatomic particles could never exhibit phenomenon of broken symmetry. So the broken symmetry is never spontaneous. It is being mis understood that sub atomic particles do have spontaneous activities as far as broken symmetry is concerned. Hence the Nobel prize physics 2008 awarded to this work is too early to give prize.

What is a conscious barrier ?

### **Conscious barrier in Biological world**

In the brain, junctions between the capillaries (arterial side) work as conscious barrier. Certain molecules are allowed to cross that barrier and to go into CSF (cerebro spinal fluid) and rest are not. It is called Blood Brain Barrier. It is the request phenomenon that allows molecules to cross blood brain barrier. This is due to mind property of junctions of capillary cells and the thought expressions to allow certain drugs is fed thoughts which were fed during precreation era to Basic building blocks of junctions of capillaries of the brain only not rest of body by highest center of the universe. Hence junctions of capillaries of brain show this barrier phenomenon not other junctions capillaries of Body.



# Schematic sketch showing constitution of blood vessels inside the brain

This "barrier" results from the selectivity of the tight junctions between endothelial cells in CNS vessels that restricts the passage of solutes. At the interface between blood and the brain, endothelial cells are stitched together by these tight junctions, which are composed of smaller subunits, frequently biochemical dimers, that are transmembrane proteins such as occludin, claudins, junctional adhesion molecule (JAM), or ESAM, for example. Each of these transmembrane proteins is anchored into the endothelial cells by another protein complex that includes zo-1 and associated proteins. The blood-brain barrier is composed of high-density cells restricting passage of substances from the bloodstream much more than endothelial cells in capillaries elsewhere in the body. Astrocyte cell projections called astrocytic feet (also known as "glia limitans") surround the endothelial cells of the BBB, providing biochemical support to those cells. The BBB is distinct from the quite similar blood-cerebrospinal-fluid barrier, which is a function of the choroidal cells of the choroid plexus, and from the blood-retinal barrier, which can be considered a part of the whole realm of such barriers (https://in.images.search. vahoo.com/yhs/search; ylt=A2oKmM1anwFVUmUAjannHgx .?p=tunnel+effect+in+physics&fr=&fr2=piv-web&hspart= CND&hsimp=yhs-002&type=A2E3463EF79 s55 g e).

Several areas of the human brain are not "behind" the BBB. These include the circumventricular organs. Example of this include: the roof of the 3rd and 4th ventricles; capillaries in the pineal gland on the roof of the diencephalon; and the pineal gland, which secretes the hormone melatonin "directly into the systemic circulation" (http://www.newscientist.com/article/dn26893-wave-function-gets-real-in-quantum- experiment. html#.VQDCvdJ9s6Y) as this hormone can pass through the blood–brain barrier (http://physicsworld.com/cws/article/indepth/2009/jul/01/the-quantum-life).

### Conscious barrier in nucleus in radioactivity

### edit] Radioactive decay

### Main article: Radioactive decay

Radioactive decay is the process of emission of particles and energy from the unstable nucleus of an atom to form a stable product.





#### Wrong Depiction of structure of nucleus

Alpha decay is one example type of radioactive decay, in which an atomic nucleus emits an alpha particle, and thereby transforms (or "decays") into an atom with a mass number decreased by 4 and atomic number decreased by 2. Many other types of decays are possible

This is done via the tunnelling of a particle out of the nucleus (an electron tunnelling into the nucleus is electron capture). This was the first application of quantum tunnelling and led to the first approximations.

### Structure of nucleus and phenomenon of request (Fig-6)

Nucleus of the atom is made up of protons and neutrons arranged in a fixed manner and it is Binding energy -5 that makes nucleus to spin. Hence potential barrier is formed by B.E.-5 in all nucleus of radioactive atoms. During radioactive decay there is formation of Alfa, beta and gamma particles or other forms of transformations from the decay of protons and neutrons making the nucleus unstable. These particles never face coulomb repulsion barrier because protons form the inner shells while neutrons form the outer shells. In higher atoms when number of protons increases, the number of neutrons also increases. But number of neutrons are required more than number of protons needed to form nucleus. This is because to hold protons in nucleus in inner shells and to face coulomb repulsion by increasing number of protons in inner shells, more neutrons are required in outer shells to make nucleus stable (Fig 5.1). During formation of higher atom nucleus, protons are brought together. Being positively charged they do not face problem of electrostatic repulsion because B.E.5 and fifth natural force form the integrity of the inner and outer shells of nucleus during nucleo -synthesis both by conditioned stimulation (on stars) or by unconditioned stimulation (during origin of earth's periodic table)

Stability (no radioactivity) of the nucleus is due to thought of stability (no radioactivity) triggered by B.B.B of higher center present inside nucleus . During instability (radioactivity), the stability thought gets suppressed and thought of instability (adioactivity) is triggered, with the result we observe radioactivity in atoms. The coulomb repulsive force of the protons is being counter balanced by strong nuclear force mediated by mesons exchange both between p-p, n-n and p-n. It looks in radioactivity that nucleus is instable but there are changes in side nucleus triggered by different thoughts till it gets stable (no radioactivity). All thoughts are fed thoughts and





The site of decay in radioactivity is outer most shell of protons and inner most shell of neutrons



Fig. 6.

### **Divine Mechanics of Tunnel Effect (Fig -6)**

When ever, particle comes in touch with barrier (B.E.-5), it sends message of opening of barrier. Having received the message, according to the type of stimulus (high energy or high velocity or low energy or low velocity) the higher center of the barrier expresses the thought of opening it. If the particle is having high energy (more than energy level of barrier), the thought of opening is bound to express and if the particle energy is less than energy level of barrier, then a phenomenon of request is there. If the request is accepted, the thought of opening would be expressed otherwise not. Then only the particle could tunnel out.





Classical physics and quantum physics

There are two types of physical effects. One is classified as classical physics and other one is classified as quantum physics. The basis of these two types of physic is THOUGHT EXPRESSIONS (Fig-4). If there are fixed thought expressions, it will lead to fixed effects which could be precisely predicted. Hence Classical physics comes into existence. But if the thought expressions are changing, it would lead to changing effects which cannot be precisely predicted. Hence it will lead to quantum phenomenon making the quantum physics. In tunnel effect the barrier's thought is changing every time and we could not precisely predict (being observer) that which particle will tunnel out when, hence it is called quantum tunneling effect. There is probability of being tunnel out, hence uncertainty principal comes into play. Though every tunneling was prefixed (destined) by highest center of the universe during precreation era and it is the highest center which could predict every tunneling effect (quantum effect) precisely. Almighty B.B.B could predict precisely when Schrödinger's cat is alive or dead without opening the box. The way is that every event (dead cat or alive cat) is being fed back to Highest center of the universe by first transcription (Quantum entanglement explained) (Fig 3.1).

Hence Heisenberg uncertainty principal is an illusion in all quantum phenomena. That is why Einstein had said," God does not play dice". Our universe is deterministic universe and every quantum effect would be precisely predicted only by Highest center of the universe because it had fed its thoughts in precreation era to each B.B.Bs that would take part in quantum phenomena.

### Conclusions

- 1. It is being believed that As a consequence of the waveparticle duality of matter, tunnelling is often explained using the Heisenberg uncertainty principle. It is all MYTH and Illusion.
- 2. Participatary science proved that both electron and potential barrier are divine units and the divine activity is atomic transcription and translation or thought expression. Every tunneling phenomenon could be precisely predicted in future by highest center of the universe
- 3. If the theory does not have MIND to explain it, it is wrong theory. Hence theory given by SCHRODINGER is wrong.
- 4. It is mind that gets real in quantum experiments rather than wave function -wave-particle duality of matter.

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