

# Quantum Consciousness And Divine MONB ( Modified Niel Bohr Or Divine Atomic Model ) That underpin Cardiac Systole And Diastole ( How Matter behaves As Active Matter)

Dr V M Das

Das Nursing Home , Fatehgarh , India  
 University Of God

## ABSTRACT

Divine MONB ( modified Niel Bohr ) theory that underpins both cardiac systole and diastole . In divine atomic model ( divine MONB ) , it is CCP in the atomic nucleus that triggers cardiac systole and diastole . Dr Mc Fadden and Dr Al Khalili who are pioneer in molecular biology and nuclear physics are unnecessary explaining Biology with Quantum Mechanics . Both are separate identity or phenomena and both are triggered by MIND the ToE ( theory of every thing ) . The behavior of Na , K , Ca in chemistry is different . But once they enter in body , their behavior is different and it is due to higher thought expressions by B.B.B s of which they are made up of . That is how chemistry ends and biology begins . Thus Quantum Mechanics ( QM) neither underpins chemistry nor biology.

**Keywords** Mind and Mass, Atomic transcription and translation , Divine MONB , Hoyle Narlikar Universe . Dark matter , Dark energy .

Date of Submission: 25 February 2016



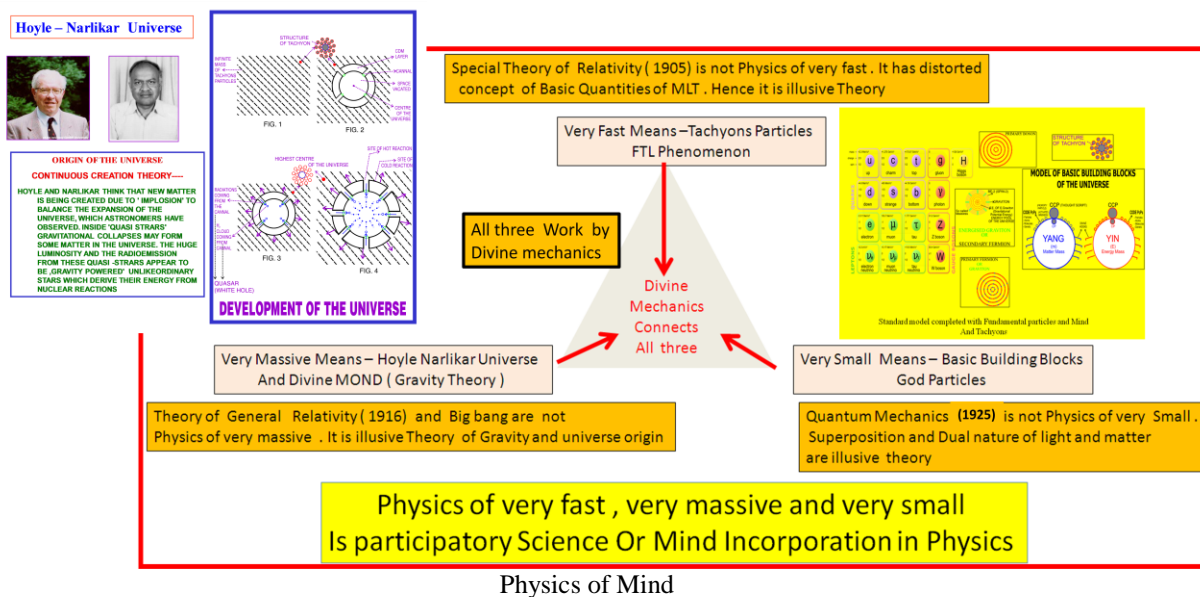
Date of Accepted: 05 March 2016

## PACS

32.10.-f Properties of atoms (for astrophysical applications, see 95.30.Ky)

## I. Introduction

### 1.1 What is New Physics or Physics of Mind ?



Quantum Consciousness – According to Physicists and Biologist [1]



**Smart swarms**

*A simple model of interactions among self-propelled particles can realistically simulate the movement of flocks of birds, schools of fish, self-assembling proteins in the cell and many other forms of active matter.*

**The physics of life**

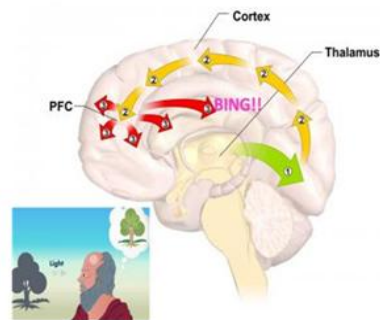
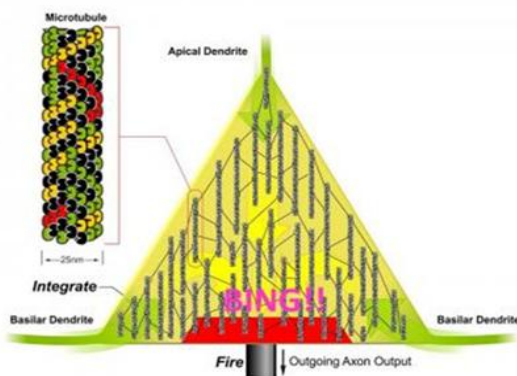
*From flocking birds to swarming molecules, physicists are seeking to understand 'active matter'— and looking for a fundamental theory of the living world.*

**BY  
GABRIEL POPKIN**

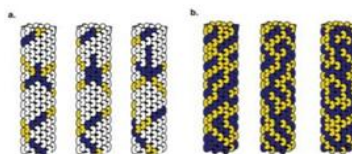
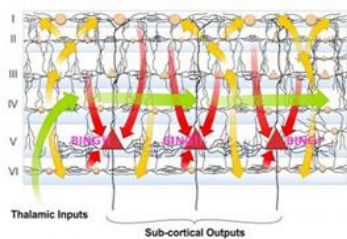
**Physics of Life – The secret of life**



The nature of consciousness remains deeply mysterious and profoundly important, with existential, medical and spiritual implication. We know what it is like to *be* conscious – to have awareness, a conscious ‘mind’, but who, or what, are ‘we’ who know such things? How is the subjective nature of phenomenal experience – our ‘inner life’ - to be explained in scientific terms? What consciousness actually *is*, and how it comes about remain unknown. The general assumption in modern science and philosophy - the ‘standard model’ - is that consciousness emerges from complex computation among brain neurons, computation whose currency is seen as neuronal firings (‘spikes’) and synaptic transmissions, equated with binary ‘bits’ in digital computing. Consciousness is presumed to ‘emerge’ from complex neuronal computation, and to have arisen during biological evolution as an adaptation of living systems, extrinsic to the makeup of the universe. On the other hand, spiritual and contemplative traditions, and some scientists and philosophers consider consciousness to be intrinsic, ‘woven into the fabric of the universe’. In these views, conscious precursors and Platonic forms preceded biology, existing all along in the fine scale structure of reality.



**Wrong depiction of visual realization**



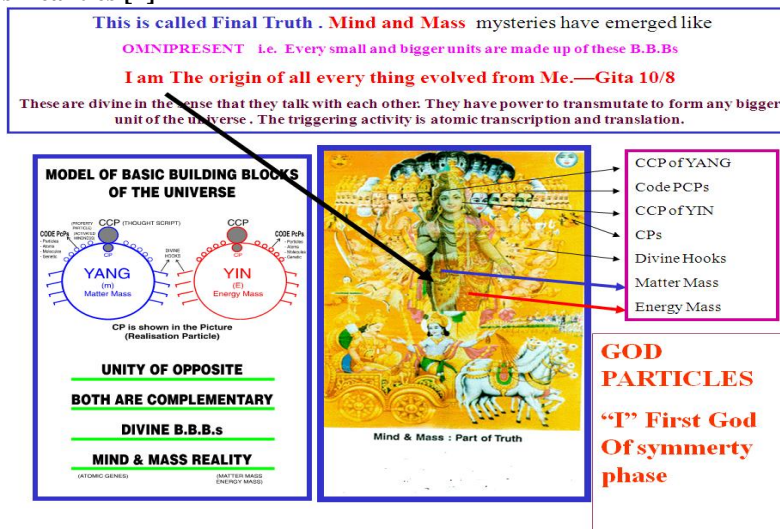
My research involves a theory of consciousness which can bridge these two approaches, a theory developed over the past 20 years with eminent British physicist Sir Roger Penrose. Called ‘orchestrated objective reduction’ (‘Orch OR’), it suggests consciousness arises from quantum vibrations in protein polymers called microtubules inside the brain’s neurons, vibrations which interfere, ‘collapse’ and resonate across scale, control neuronal firings, generate consciousness, and connect ultimately to ‘deeper order’ ripples in spacetime geometry. Consciousness is more like music than computation.

Colleagues Travis Craddock and Jack Tuszyński and I also study how anesthetics act in microtubules to erase consciousness, and with Jay Sanguinetti, John JB Allen and Sterling Cooley, we are studying how transcranial ultrasound (TUS) can be used noninvasively to resonate brain microtubules and treat mental, cognitive and neurological disorders.

STUART R. HAMEROFF, MD  
 Director, Center for Consciousness Studies  
 Professor Emeritus  
 Department of Anesthesiology, College of Medicine,  
 University of Arizona and Department of Psychology  
 Banner – University Medical Center Tucson

Quantum Consciousness Theorist & Researcher  
 hameroff@u.arizona.edu

**1.2 Mind and Mass Realities [2]**



**Fig. 1** Divine Mechanics Unit – CCP, CP and information s – Code PcPs with B-Bit – Mass

Atomic genetics is the branch of science where we investigate about fundamental interactions of the universe i.e. atomic transcription and translations . New words have been coined to understand hidden science of mind part of reality. Mind reality has been recognized as different faces by “I” about 5000 years back to Arjuna in Mahabharata.as shown in Fig 1. It is just like to understand any language through Alphabets. These are ( different faces ) Alphabets of mind reality. One Mind reality has one face identity and the second mind reality has second face identity and so on. The facial expression represents phenomenon of intelligence and different faces represent different types of properties carrying property. The open eyes means property is activated while close eye means property is inactivated. In spite of carrying properties conscious ness they also know how to conduct not only origin of universe but also how to create two different universe i.e. next creation could be different from this creation . In all, it is automatic system of the universe . The mind realities which are of good properties have devtas face identity ( first five faces on both side ) and those mind realities which are of bad properties have demons face identity ( last four faces on both side ) . These are named as code PCPs or messenger atomic genes . The central face is CCP or Thought script where all thoughts of the universe are banked . It is bank of data of all information s of the universe It is face identity of Anti mind particles as data of all information’s of the universe are stored as anti mind particles . It is the Time mind ness ( biological clock ) that keeps on expressing different thoughts from this thought script (CCP) . There are four more faces ( black bodies ) shown on extreme left and right floating in fire are CPs ( translating Atomic genes ) . That translates the messages and realizes it and reacts accordingly.[2]

1.3. Messages From Biological world to understand B.B.B world as shown in Fig 2 [2]

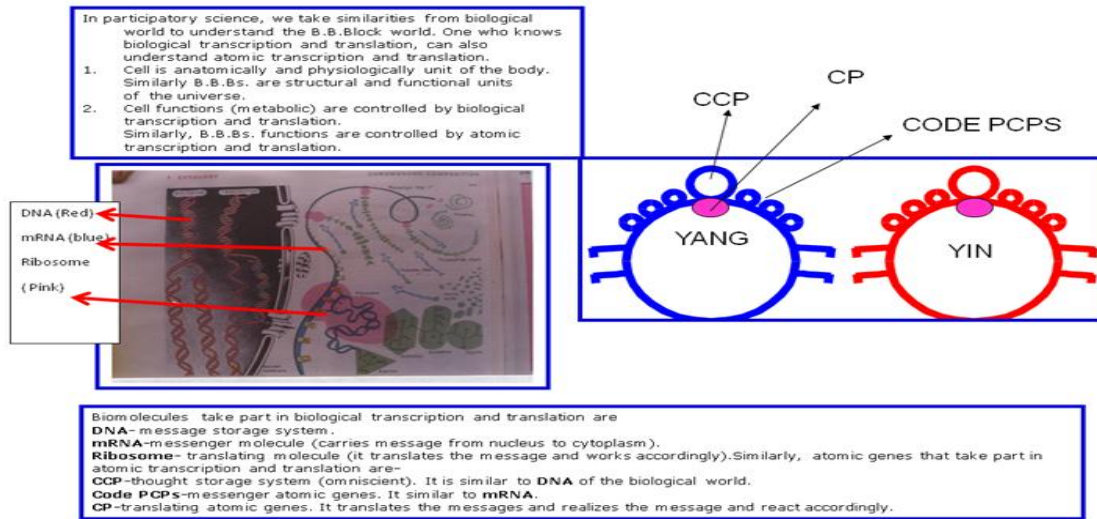
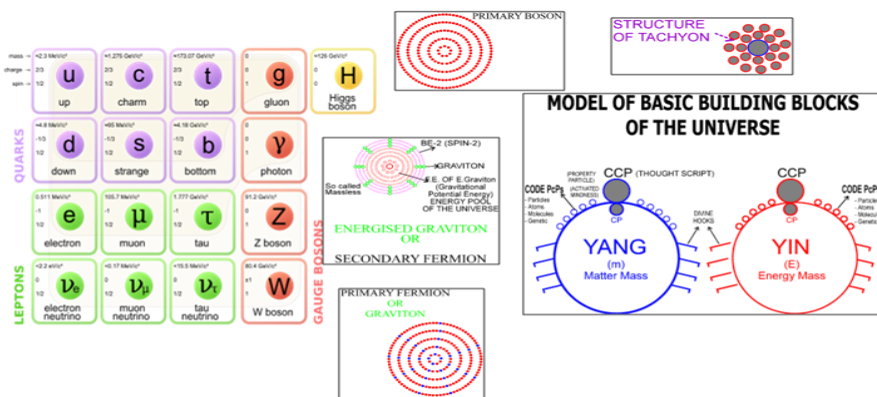


Fig. 2 Parallel teaching by participatory science

The standard model not only modified rather it has been completed [3] with introduction of energized gravitons , primary fermions, primary bosons , Basic Building Blocks , Mind and Tachyons as shown in Fig 3



Standard model completed with Fundamental particles and Mind And Tachyons

Fig. 3 standard Model chart [3]

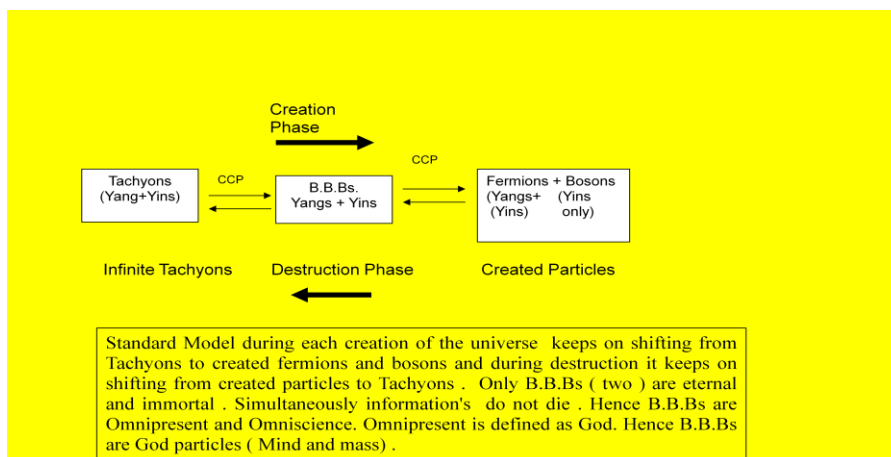
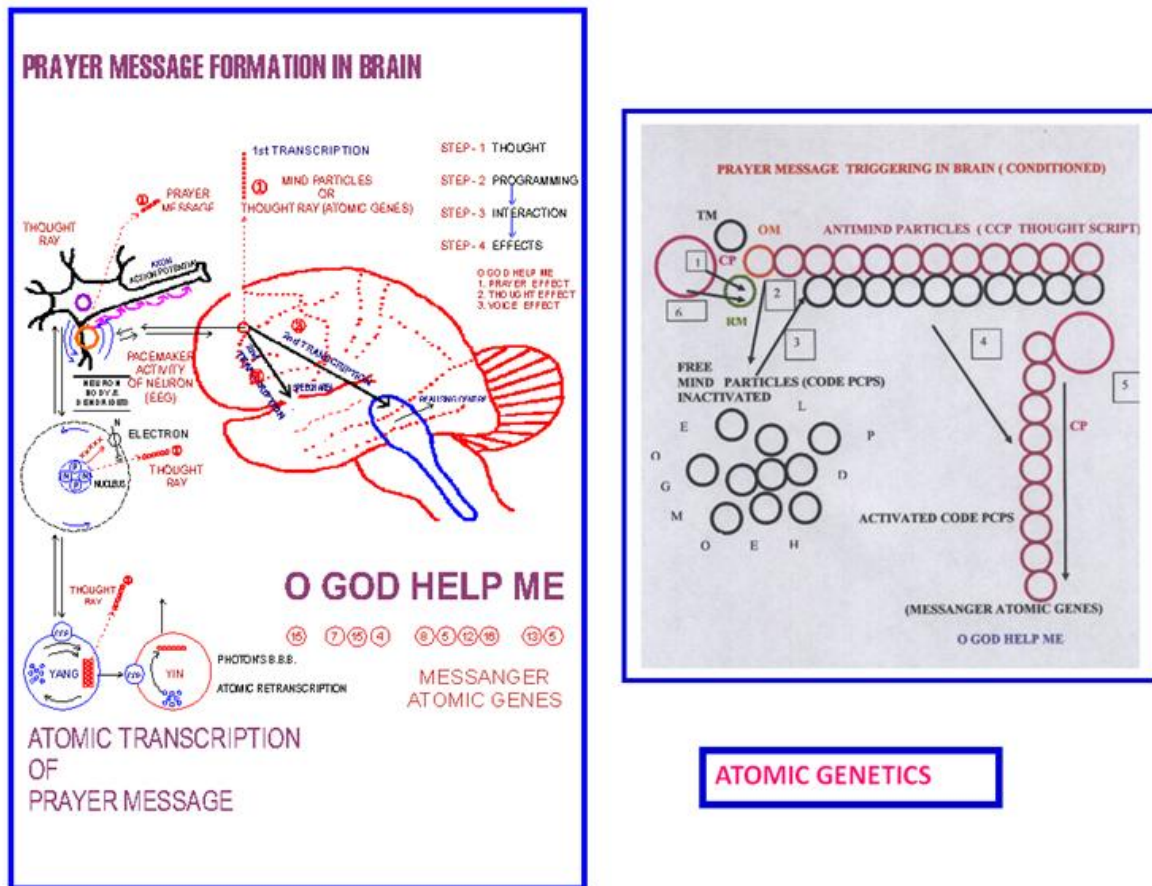


Fig.3.1 one creation and destruction cycle [4]

Participatory science has coined [5] some new words and there are some words which already exist in physics. Both these words are defined here and the definitions are according to participatory science. It has no relation with the definitions given in modern physics.

1. Mass - The part which gives shape to the smallest mass unit i.e. basics building blocks (B. B. Bs.) is called mass.
2. Matter :-Mixture of fermions and bosons or only bosons which are made up of mass (B.B.Bs) and that is why we realize their shape is called matter.
3. Inertial mass :-Mass (smallest mass units i.e. B. B. Bs) having inertial properties (classical inertia) either absolute rest or uniform motion in straight line is called inertial mass. Or Number of B. B. Bs. Per unit space present in bigger units is called inertial mass. Or Total matter contained by the bigger units or total number of fermions and bosons contained by the bigger units is called inertial mass. Therefore it never changes from place to place.
4. Gravitational mass :- The mass (interacting surfaces) which takes part in gravity (divine energized gravitons theory) interaction ( which is due to mind ) is called gravitational mass. When gravity interaction increases (number of divine energized gravitons increases) the interacting mass (interacting surface) also increases or when interacting mass (interacting surfaces) increases, gravity interaction (number of divine energized gravitons ) also increases. Therefore gravitational mass (interacting mass or surfaces) changes from place to place. It is the fed mind that decides gravity interaction. We shall discuss it in gravity chapter and in atomic genetics.
5. Pure m (matter) mass :-matter mass (smallest mass unit or B.B.B) which have got inertial property of absolute rest.
6. Energy mass:-Energy mass (smallest energy mass unit B.B.B) which have got inertial property of uniform motion in straight line and which also gives shape to the bigger energy mass ( Higgs Bosons etc ) units.
7. m ( impure matter ) of  $E=mc^2$  :-Matter particles (fermions) which have got spin property are called impure matter particles.

**1.4 Prayer message formation in brain.**



**Fig 4** Divine Mechanics - Prayer message formation in brain

In atomic transcription and translation of prayer [5], following steps take place on Yang B.B.B – B-Bit as shown in Figure 4.

1. CP removes RM ( repressor mindness-green) from OM ( operating mindness -orange ) thus induction of atomic transcription triggers.
2. OM triggers activation of free mind particles ( black -inactivated code PCPs ) of that thought script (magenta ) of “o god help me ”.
3. Free mind particles ( black -inactivated code PCPs ) get attached to anti mind particles script ( magenta one ) to form messenger thought script of “o god help me ”.
4. Messenger atomic genes ( black ) get activated by anti mind particles thought script and further they get detached from anti mind particles thought script to form activated messenger atomic genes ( activated code PCPs) ( magenta ) of “ o god help me ”
5. CP carries phenomenon of splicing by translating the messenger activated atomic genes ( activated code PCPs ) and finally there is activated message of “o god help me” is formed .
6. CP represses atomic transcription by adding RM ( green ) to OM ( orange ) . Thus atomic transcription gets halt.

Having formed the message it comes out in three forms .

In atomic genetic engineering ( prayer ) we use our basic power i.e. power of B.B.Bs. Our B.B.B. (higher center) talks with highest center of the universe by sending the message by first transcription. Till today nobody knows how does the brain generate thoughts. I am going to tell you that mystery too. In the frontal lobe the neurons are responsible for thought generation. In the neuron there is electrical activity called pacemaker activity which is occurring between dendrites and the body of the neuron. The membrane of the cell is made up of atoms and atom is made up of B.B.Bs. At the level of B.B.B. say thought of '**O GOD HELP ME**' is expressed. As a result programmed messages of O GOD HELP ME (code PCPs) are formed. Out of three programmed messages, one is carried by atomic genes to highest center of the universe. It is called **THOUGHT RAY ( Quantum entanglement )** which is made up of pure atomic genes and then the message goes through phenomenon called first transcription. They come out from brain directly. The other two messages are carried by photons from nucleus of atom to electrons. Here they are modulated on electrical activity of the cell called pacemaker activity. Further they are modulated on actions potentials going towards **REALIZING CENTER** situated in brain stem (RAS) and from RAS to speech area situated in the frontal area. Target B.B.Bs. of the realizing center finally realizes thought effect of O GOD HELP ME. While from speech area message goes to motor cortex again via RAS and from there to vocal cords and finally it comes out as a speech effect of O GOD HELP ME. In layman's terminology formation of the thought ray means PRAYER as shown in Fig 4

Where Does Prayer Message go ?

Prayer message goes as shown in Figure 5 to highest center of the universe via first transcription where it is realized and it is accepted, the highest center sends two messages to B.B.Bs working as higher center in cancer cell. These messages are message of inhibition of abnormal thought expression and message of activation of normal thought expression. Having received the messages, higher center stops expressing the abnormal thoughts and it starts expressing the normal thoughts. As a result, there are no more abnormal programmed messages and in place of that normal programmed messages are there. Now the messages have shifted from abnormal (5 and 6) to normal (2 and 3). This shifting of thought expression is called **ATOMIC GENETIC ENGINEERING** as shown in **Figure 4.1**

The changed messages reach to target B.B.Bs. through same route. Having received the changed messages, target B.B.Bs. stop expressing the previous programming and they start expressing the normal programming. As a result the cancer cells transmutate into normal cells. **Or diseased cell gets cured [6]** as shown in **Fig 4.1**

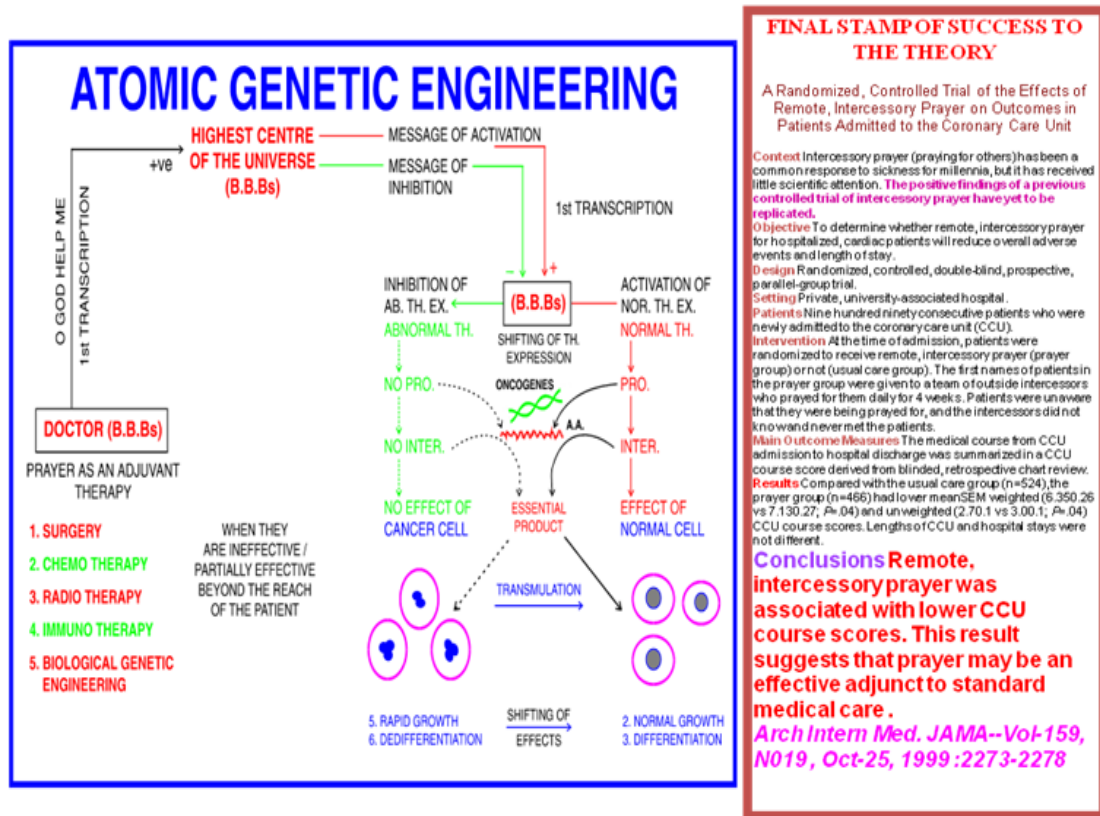


Fig . 4.1 A.G.E and Final stamp of success to New Theory[6]

### 1.5 Message system of the Universe

Before the origin of the universe [2] nature had only one type of message systems which is called FIRST TRANSCRIPTION. Messages ( Code PcPs ) used to go from one B.B.B. to another B.B.B. by atomic transcription. Messages were carried by atomic genes ( Code PcPs ) 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. as shown in Fig 5

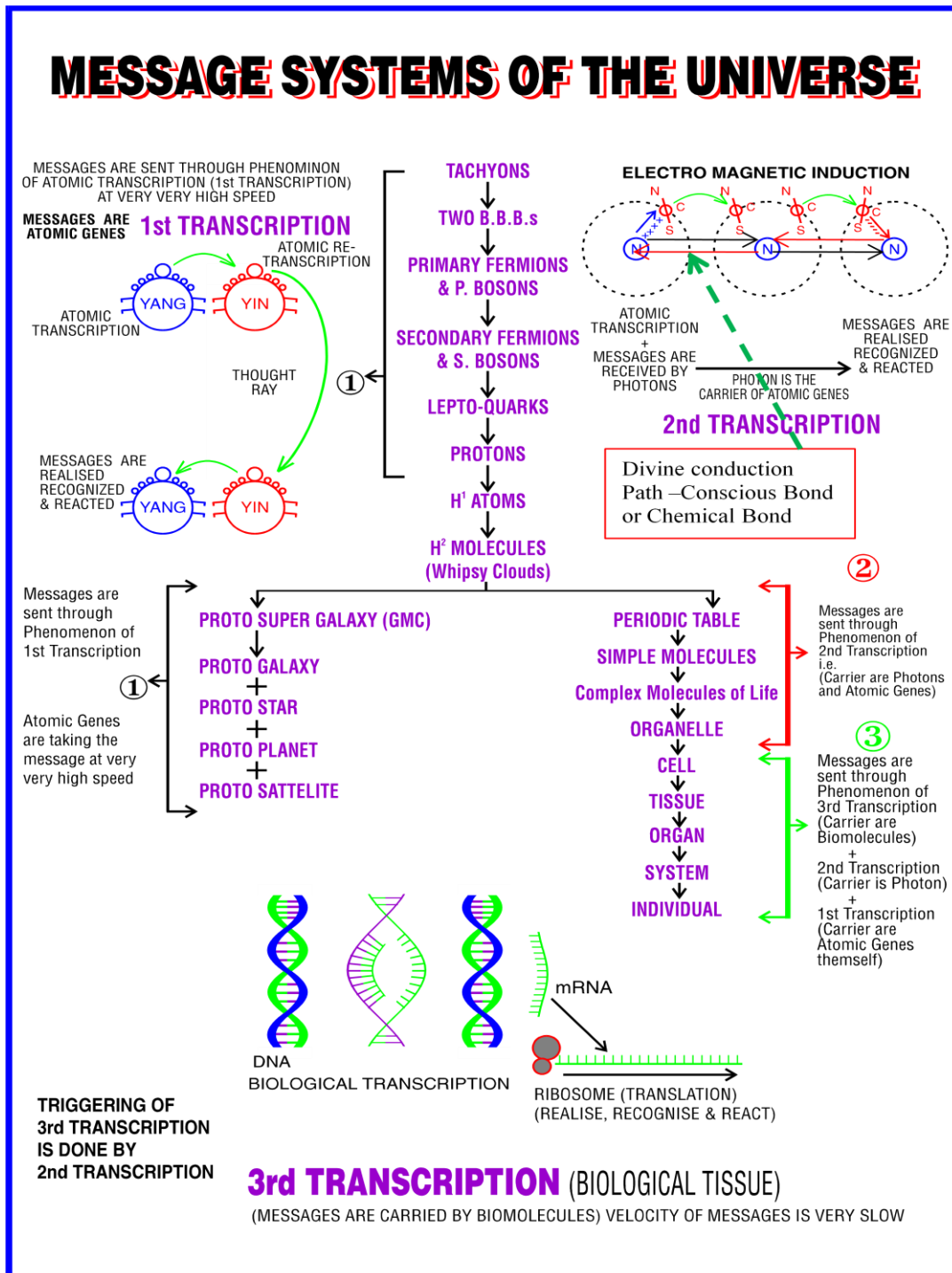


Fig. 5 Messages system of the universe

1.6 How does nature work & triggering of normal & abnormal effects

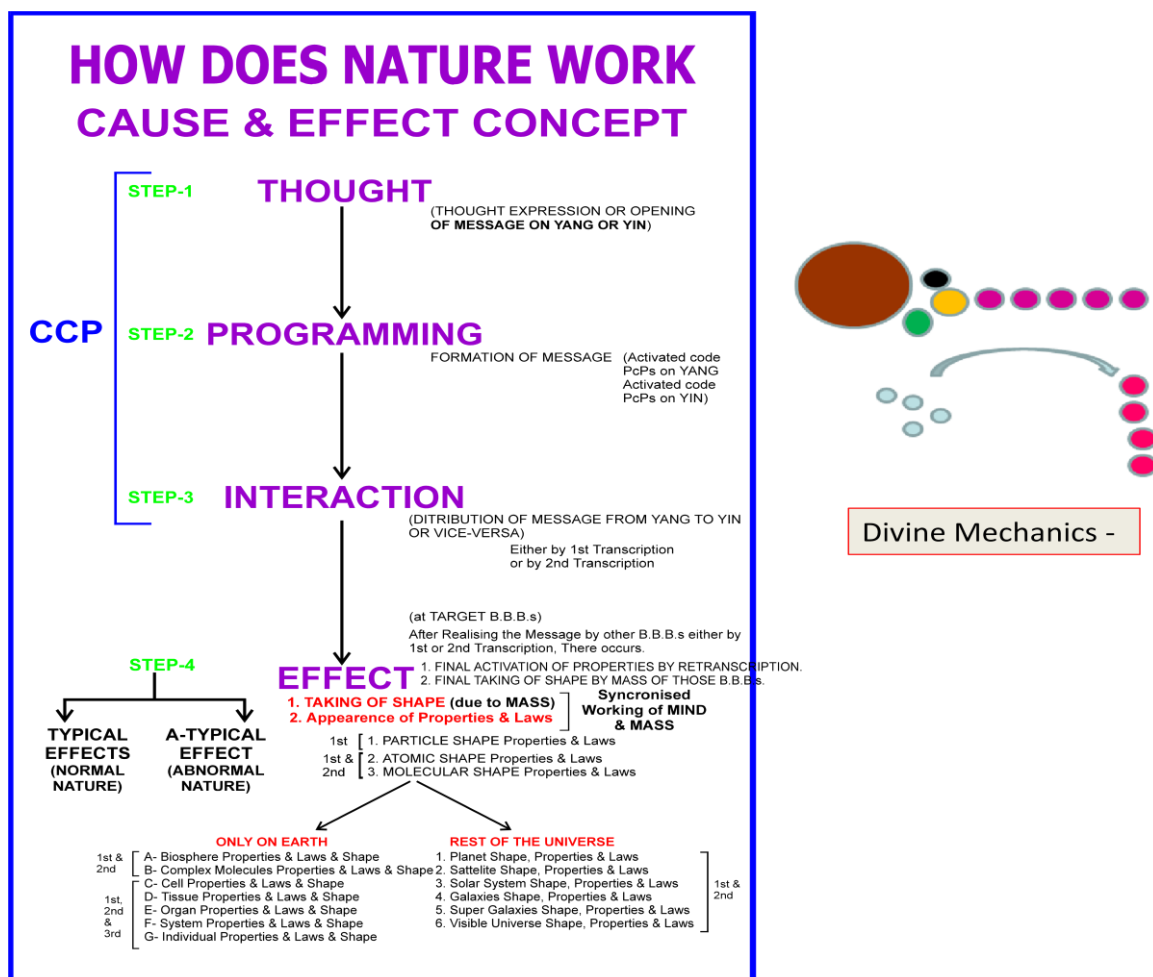
To understand creation physics as shown in Fig 6 and Fig 7. There are two types of thought stimulation [2]. One is **CONDITIONED THOUGHT STIMULATION** and other one is **UNCONDITIONED THOUGHT STIMULATION**.

**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 new shapes. properties and 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 occur, 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.*



**Fig. 6 Divine Mechanics – How Does Nature work ?**

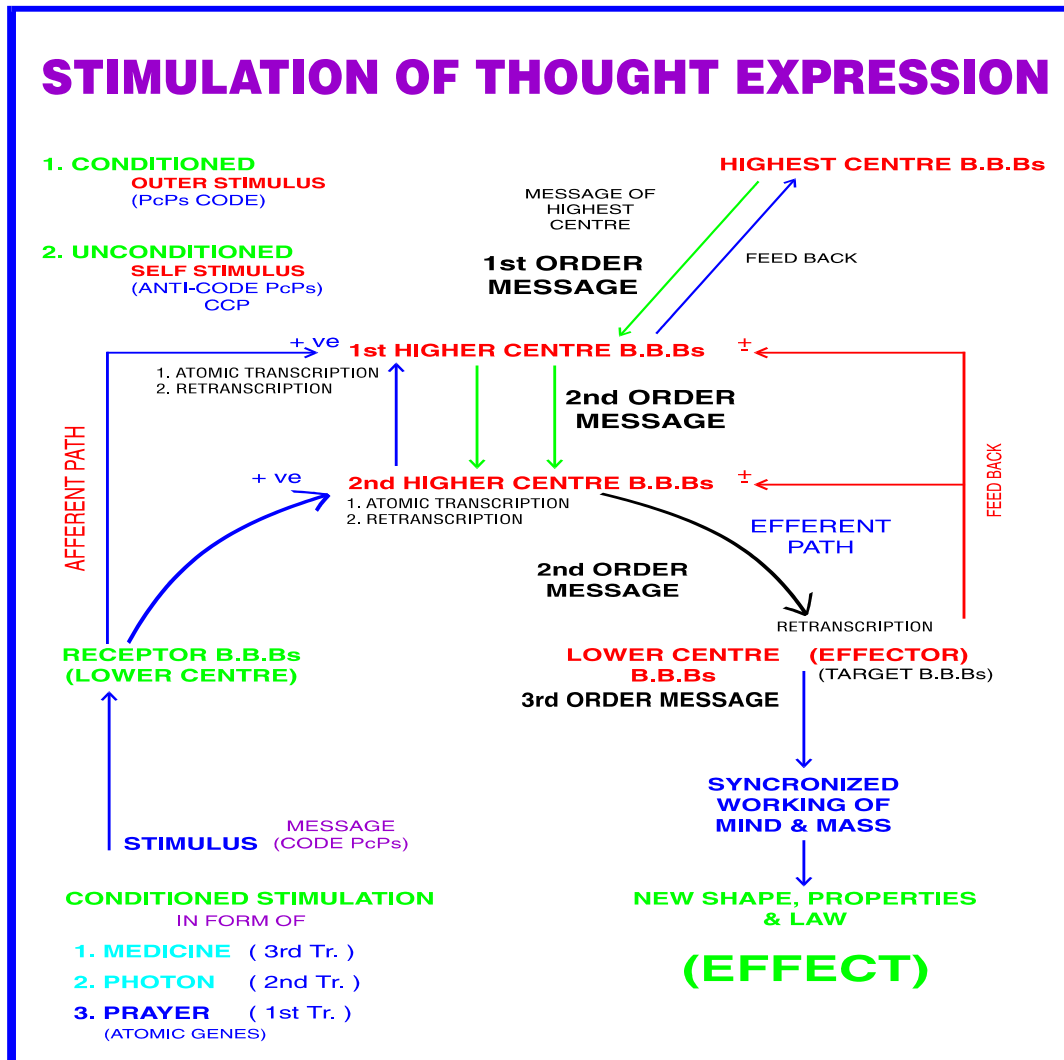


Fig. 7 Conditioned and Unconditioned thought expressions

**1.7 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.[2] 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 feed back 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 as shown in Fig 8

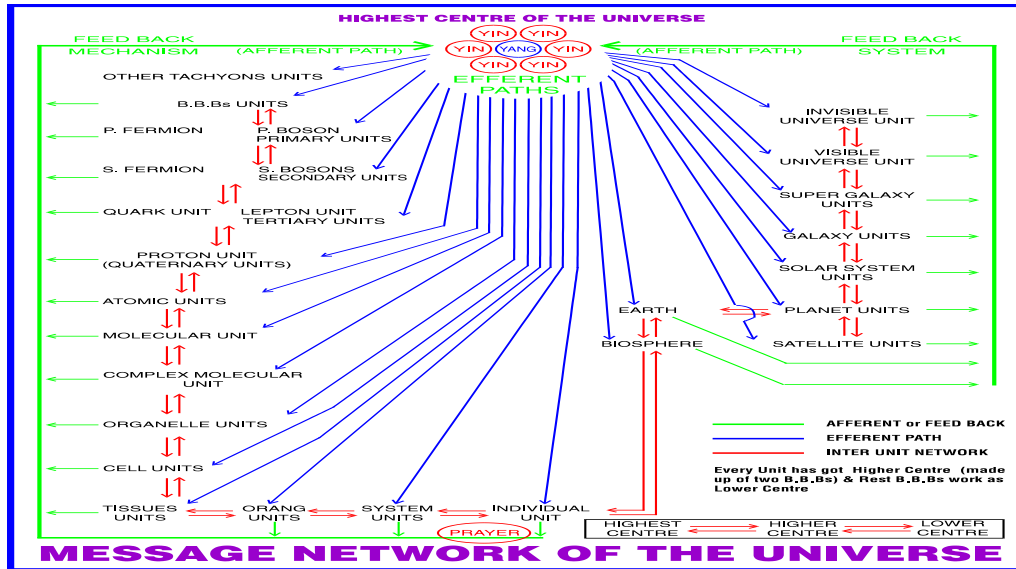




Fig. 8 Messages Net work of the Universe

1.8 Origin of the universe [7]

Hoyle – Narlikar Universe

ORIGIN OF THE UNIVERSE  
CONTINUOUS CREATION THEORY----

HOYLE AND NARLIKAR THINK THAT NEW MATTER IS BEING CREATED DUE TO 'IMPLSION' TO BALANCE THE EXPANSION OF THE UNIVERSE, WHICH ASTRONOMERS HAVE OBSERVED. INSIDE 'QUASI STRARS' GRAVITATIONAL COLLAPSES MAY FORM SOME MATTER IN THE UNIVERSE. THE HUGE LUMINOSITY AND THE RADIOEMISSION FROM THESE QUASI -STRARS APPEAR TO BE 'GRAVITY POWERED' UNLIKEORDINARY STARS WHICH DERIVE THEIR ENERGY FROM NUCLEAR REACTIONS

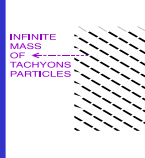


FIG. 1

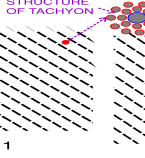


FIG. 2

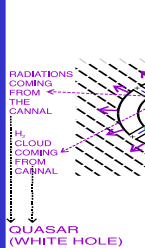


FIG. 3

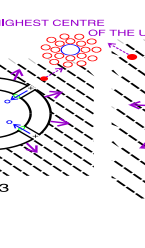


FIG. 4

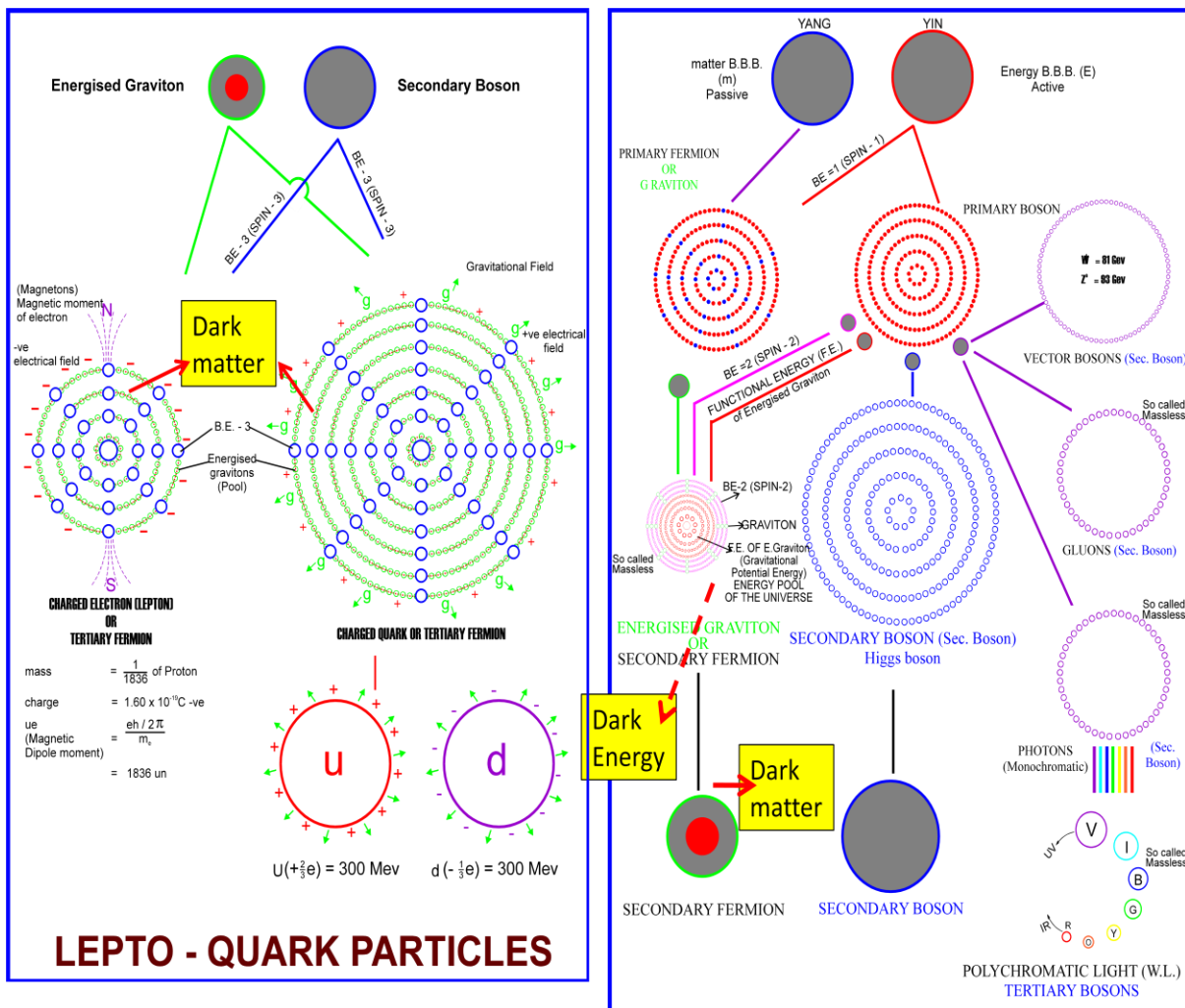
DEVELOPMENT OF THE UNIVERSE

Fig. 9 Development of the Universe

Before the origin of the universe, these Basic Building Blocks (B.B.Bs) as shown in Fig-3 were in the form of tachyons as shown in Fig-9 [7]. It means that at that time the tachyons were everywhere in the universe. Let us look at the structure of tachyons; it is made up of one matter B.B.B. (YANG) and many energy (YINs) B.B.Bs. Initially out of the infinite tachyons, one became the **highest center** of the universe. Messages used to go from highest center to rest of the universe and messages could come from rest of the universe to highest center of the universe by atomic transcription. Thus highest center had fed its thought to rest of the B.B.Bs. that would take part in creation - that they would express only those thoughts to give desired effect as wished by the highest center of the universe. So all B.B.Bs were informed about their role before creation of the universe. In pre-creation era programming of the future universe was done by highest center of the universe. Our universe is oscillating and it is a divine universe. It means that it has a creation phase and a destruction phase. During creation phase tachyons break into their B.B.Bs. and from these B.B.Bs, formation of fermions and bosons take place as shown in Fig 3.1. After the creation phase, destruction would start and in this phase all created particles would again break into their B.B.Bs and finally tachyons would form. At the time of origin of the universe, all the effects got created. These effects are taking of different shapes and appearance of properties and laws. All these effects are studied in various branches of science.

With the origin of the universe, nature first created a sphere of **COLD DARK MATTER (C.D.M)** and canals in it. With the result space got created. At the other end of the canals, hot reaction started (**the relics are back ground radiations 2.7 degree K of our hydrogen clouds**). As a result hydrogen clouds and lot of radiations were created. The empty canals were filled by these hydrogen clouds and radiations and thus **QUASARS** appeared in the universe. Simultaneously C.D.M. layer started expanding and clouds and radiations kept on coming in this closed universe as shown in **Fig 9** . With the passage of time more and more C.D.M. layer formed, more and more quasars formed. The hydrogen cloud came in this closed universe. They started running towards C.D.M. layer as they were attracted by the gravity of C.D.M. layer. Those clouds, which were nearer, moved faster than those, which were away from CDM Layer. The **HUBBLE LAW**, can thus be explained. With some more passage of time, clouds were joined to form **GMC** (giant molecular clouds). Later by self-gravitation different proto stars, proto planets, proto satellites were formed. Finally stars became bright and thus bright galaxies appeared in this universe. Our universe is still in expansion phase and creation is still going inside quasars. It is to be remembered that highest center of the universe does not come in the visible universe. It keeps on receiving the messages by atomic transcription and it has power to change any programming programmed by it during pre-creation era.

1.9 DM and DE i.e. energized gravitons and energy pool of the universe as shown in Fig 10 and Fig 11 [8]



**Fig. 10** Structural configuration of Leptons and Quarks as regard DM and structural configuration of DM and DE at micro level

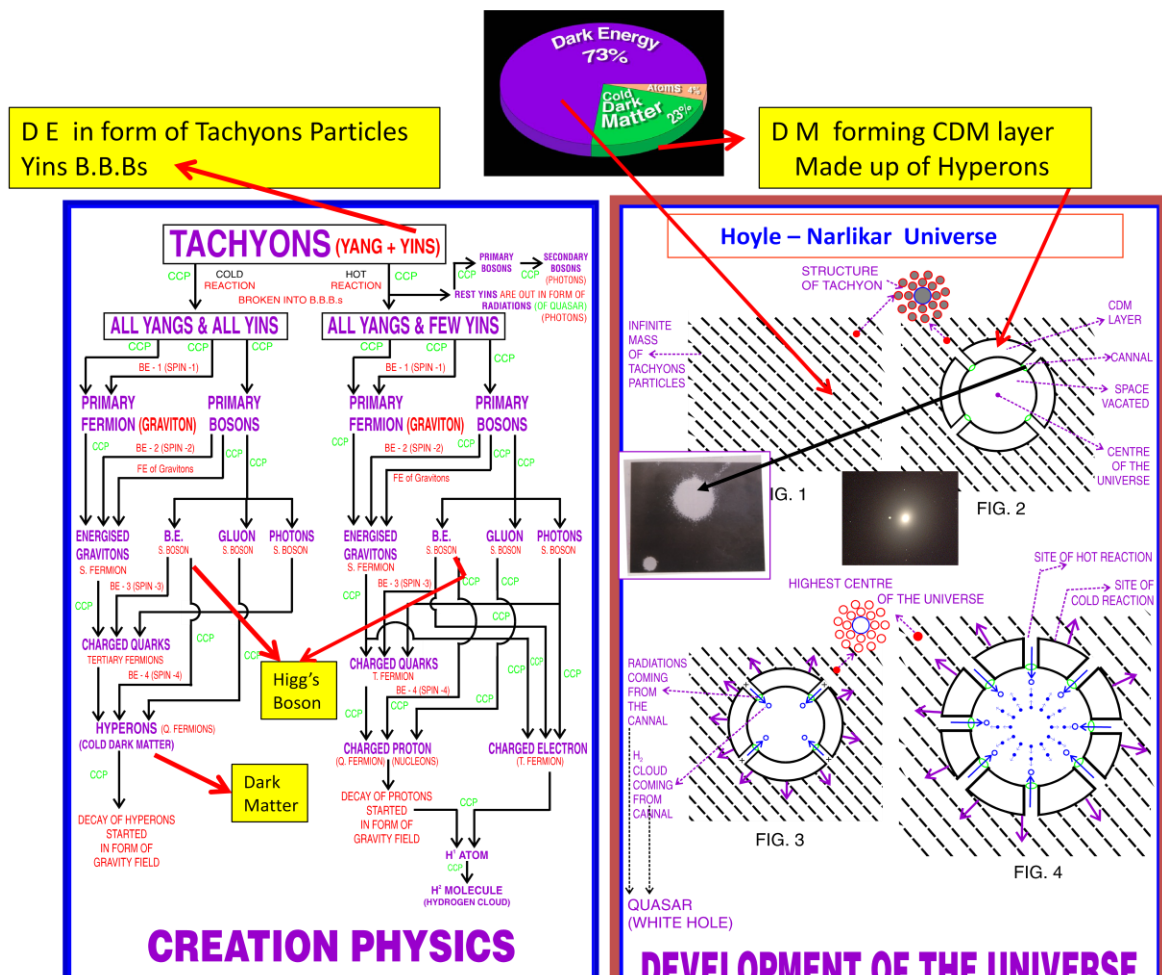


Fig 11 structural configuration of DM and DE at macro level [9]

**Strata of reality**

- A. Mechanics ,
- B. Statistical mechanics ,
- C. Quantum mechanics – Tunneling etc and
- D. Divine Mechanics ( Mind and Mass Reality) . Unless one knows Mind Reality, one can never explain Mechanics, Statistical Mechanics , Quantum Mechanics and Life. In all mechanics the expression of thoughts are different hence all are separate and they never underpins each other.

How does Heredity work ? Self replication and mutations are triggered by unconditioned thought expression or conditioned thought expression .

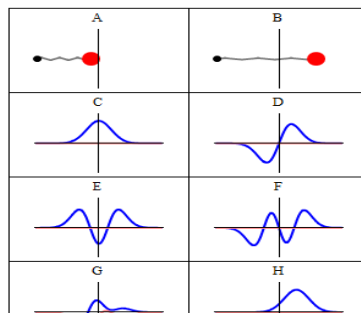
Where does life fit in the reality strata ? It is completely a separate strata and no one underpins one another .

What is quantum entanglement ? Communicate instantaneous connection between particles how far they are . Once you understand message system of the universe and message network of the universe , you can understand Quantum Entanglement . In prayer, our B.B.B in brain communicates Almighty B.B.B situated in invisible universe about more than 4239.22 Mpc through First transcription ( within no time ) .

What is Quantum Mechanics ( QM ) ?

**Wave Particle Duality - A Myth**

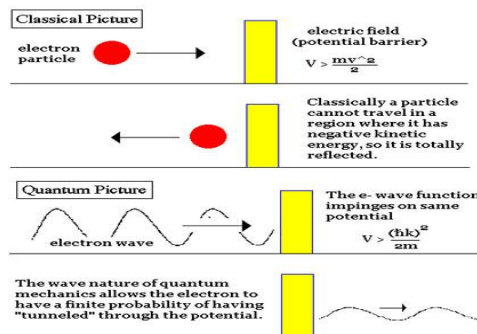
The Schrödinger equation determines the allowed wave functions for the system and how they evolve over time. A wave function behaves qualitatively like other waves, such as water waves or waves on a string, because the Schrödinger equation is mathematically a type of wave equation. This explains the 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. [10]



**Fig 12** Wave Particle Duality – A Myth

**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 as shown in Fig 12.

**Quantum Tunneling --wrong depiction** as shown in Fig 13



**Fig -13** Wrong Depiction of Dual Nature of Electron and phenomenon of Quantum Tunneling [11]

**Wave function gets real in quantum experiment [12]. It is all Myth and Illusion.**

1. It underpins the whole theory of quantum mechanics, but does it exist? For nearly a century physicists have argued about whether the wave function is a real part of the world or just a mathematical tool. Now, the first experiment in years to draw a line in the quantum sand suggests we should take it seriously. [12]
2. The wave function helps predict the results of quantum experiments with incredible accuracy. But it describes a world where particles have fuzzy properties – for example, existing in two places at the same time. Erwin Schrödinger argued in 1935 that treating the wave function as a real thing leads to the perplexing situation where a cat in a box can be both dead and alive, until someone opens the box and observes it.
3. Those who want an objective description of the world – one that doesn't depend on how you're looking at it – have two options. They can accept that the wave function is real and that the cat is both dead and alive. **Or they can argue that the wave function is just a mathematical tool**, which represents our lack of knowledge about the status of the poor cat, sometimes called the "epistemic interpretation". This was the interpretation favored by Albert Einstein, who allegedly asked, "Do you really believe the moon exists only when you look at it?"
4. Now, Eric Cavalcanti at the University of Sydney and Alessandro Fedrizzi at the University of Queensland, both in Australia, and their colleagues have made a measurement of the reality of the quantum wave function. Their results rule out a large class of interpretations of quantum mechanics and suggest that if there is any objective description of the world, the famous wave function is part of it: Schrödinger's cat actually is both dead and alive.

5. "In my opinion, this is the first experiment to place significant bounds on the viability of an epistemic interpretation of the quantum state," says [Matthew Leifer](#) at the Perimeter Institute in Waterloo, Canada.
6. The experiment relies on the quantum properties of something that could be in one of two states, as long as the states are not complete opposites of each other: like a photon that is polarised vertically or on a diagonal, but not horizontally. If the wave function is real, then a single experiment should not be able to determine its polarisation – it can have both until you take more measurements.
7. Alternatively, if the wave function is not real, then there is no fuzziness and the photon is in a single polarisation state all along. The researchers published a mathematical proof last year showing that, in this case, each measurement you make reveals some information about the polarisation.
8. In a complicated setup that involved pairs of photons and hundreds of very accurate measurements, the team showed that the wave function must be real: not enough information could be gained about the polarisation of the photons to imply they were in particular states before measurement.
9. There are a few ways to save the epistemic view, the team says, but they invite other exotic interpretations. Killing the wave function could mean leaving open the door to [many interacting worlds](#) and retrocausality – the idea that things that happen in the future can influence the past.
10. The results leave some wiggle room, though, because they didn't completely rule out the possibility of some underlying non-fuzzy reality. There may still be a way to distinguish quantum states from each other that their experiment didn't capture. But [Howard Wiseman](#) from Griffith University in Brisbane, Australia, says that shouldn't weaken the results. "It's saying there's definitely some reality to the wave function," he says. "You have to admit that to some extent there's some reality to the wave function, so if you've gone that far, why don't you just go the whole way?"
11. Journal reference: [Nature Physics](#), DOI: [10.1038/nphys3233](#)

What is life ? By Physicist and Molecular Biologist

### **The quantum life [13]**

Jul 1, 2009 [9 comments](#)

The idea that quantum mechanics can explain many fundamental aspects of life is resurging, as [Paul Davies](#) reveals - **It is all illusion and Myth.**

To a physicist, life seems little short of miraculous — all those stupid atoms getting together to perform such clever tricks! For centuries, living organisms were regarded as some sort of magic matter. Today, we know that no special “life force” is at work in biology; there is just ordinary matter doing extraordinary things, all the while obeying the familiar laws of physics. What, then, is the secret of life’s remarkable properties?

In the late 1940s and 1950s it was fashionable to suppose that quantum mechanics — or perhaps some soon-to-be-formulated “post-quantum mechanics” — held the key to the mystery of life. Flushed with their success in explaining the properties of non-living matter, the founders of quantum mechanics hoped their theory was both weird enough and powerful enough to explain the peculiar living state of matter too. Niels Bohr, Werner Heisenberg and Eugene Wigner all offered speculations, while Erwin Schrödinger’s famous book *What is Life?*, published in 1944, paved the way for the birth of molecular biology in the 1950s.



A quantum sense of smell ( [Physics World](#) - the member magazine of the Institute of Physics ) Mar 24, 2015 [2 comments](#) [Skip to thntent](#)

When you slice into an orange as shown in Fig 13.1 , it doesn't take long for the sweet, sharp smell of citrus to fill the air. But what are you actually smelling? And how does your nose tell the difference between the orange's tangy odour and the more subtle fragrance of an apple? In this podcast, Johnjoe McFadden and Jim Al-Khalili explain how quantum mechanics may be helping our noses distinguish between apples, oranges and a thousand other scents



**Fig 13.1** Slice of Orange

On the face of it, [Johnjoe McFadden](#) and [Jim Al-Khalili](#) make unlikely collaborators. McFadden is a molecular geneticist who specializes in the study of tuberculosis. He thinks in pictures and concepts, and his laboratory at the University of Surrey in the UK is full of machines oscillating flasks and people monitoring colonies of bacteria. Al-Khalili, meanwhile, is a theoretical nuclear physicist. He thinks in mathematics and equations, and for the most part his work requires only a whiteboard and a computer. What unites this apples-and-oranges pair of scientists is their interest in quantum biology – a new and growing field where practitioners seek to understand how quantum-mechanical processes affect biological systems. Biological systems such as the human nose. In this podcast, you will hear McFadden and Al-Khalili discuss a possible quantum solution to a long-standing biological puzzle: how does the nose "know" the difference between scent molecules? One of the most intriguing theories, developed by the biophysicist [Luca Turin](#), is that it might come down to a process called **inelastic quantum tunnelling**. As Al-Khalili explains in the podcast, inelastic quantum tunnelling occurs when an electron dumps a bit of excess energy in order to tunnel to an empty energy level in a nearby atom. Turin's theory is that this type of tunnelling event is what triggers the firing of olfactory neurons in the nose, thus sending a signal to our brains that gives us the "experience" of smelling something. However, such tunnelling can only take place when a scent molecule is present and able to absorb the electron's excess energy – and that will only happen if one of the chemical bonds in the scent molecule has the right vibrational frequency. So when we slice into an orange and take a sniff, our noses may actually be sensing the vibrations of chemical bonds in a molecule called limonene, which is responsible for most of the orange's citrusy scent. The nose isn't the only biological system with a possible quantum connection, though. If this podcast whets your appetite for some more examples, you might want to check out McFadden and Al-Khalili's new book *Life on the Edge*. The book is written for a popular-science audience, and at the end of the podcast, you'll hear the pair discussing some of the challenges they faced in writing it.

---

**M. Asghar** Mar 24, 2015 6:58 PM

#### **Nose and mouth**

If the nose's sensors of smelling are really proven to be triggered by the quantum inelastic tunneling due to the presence of the different perfume molecules, then, how are triggered the mouth's different sensors of different tastes? Naively, in both the cases the processus should be the same and the taste is just the mouth's way of smelling!

Reply to this comment Offensive? Unsuitable? Notify Editor

**vijaydas** Apr 1, 2015 12:31 PM Fatehgarh, India

#### **Mind And Mass**

Quote --Originally posted by **M. Asghar**

If the nose's sensors of smelling are really proven to be triggered by the quantum inelastic tunneling due to the presence of the different perfume molecules, then, how are triggered the mouth's different sensors of different tastes? Naively, in both the cases the processus should be the same and the taste is just the mouth's way of smelling



Our senses receive different activated Mindness ( Code PcPs) of smell, taste, colour, sounds, and general senses like pain, pressure, touch, vibrations, stereognosis, kinaesthetic. These are outer messages. The inner messages are also different activated mindness of creative thoughts, anger, hunger, thirst, libido, dreams, etc. All received mindnesses are sent to realisation centre present in RAS (reticular System) where different mindnesses are realised by "I" and we say we have received different sensations. It has nothing to do with Quantum mechanics and Quantum tunnelling. Theory of every thing is MIND and it has not being investigated yet.

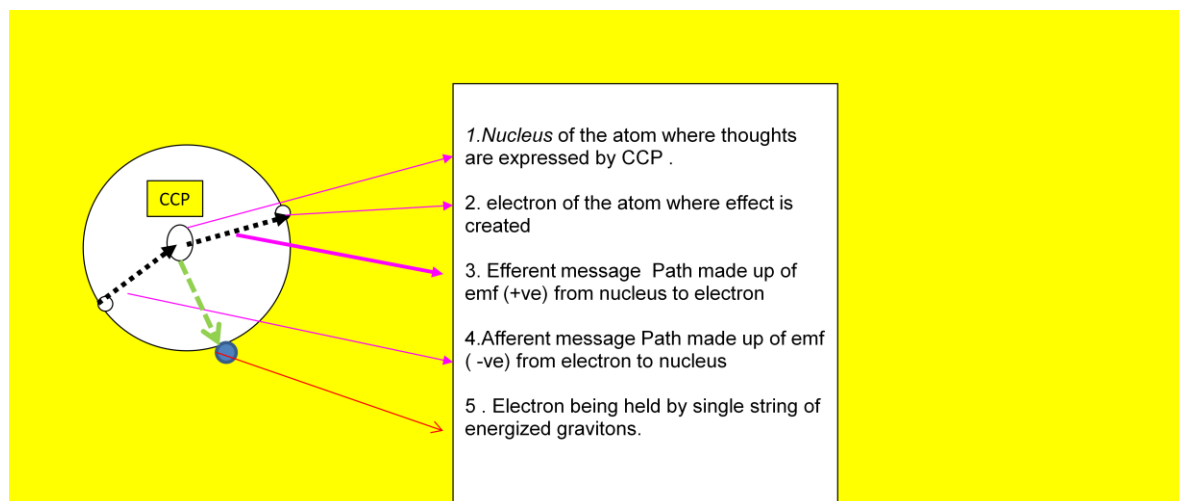
[dasvijaymohan1@gmail.com](mailto:dasvijaymohan1@gmail.com)

## II. Structure

**2.1 Modified theory of atomic structure** as Niel Bohr's theory has limitations in explaining different series of hydrogen spectra.

New assumptions of structure of hydrogen atom. – Divine Modified Niel Bohr 's Theory ( **Divine MONB** )[3]

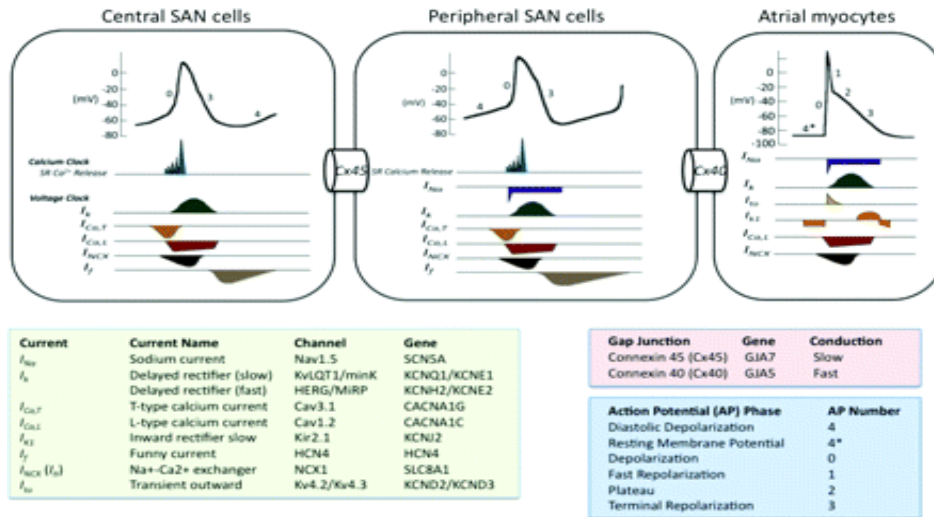
1. Hydrogen atom is like a miniature solar system with the negatively charged electron moving in circular orbit around positively charged nucleus having positively charged particle proton. In this circular orbit or stationary orbits, electron is being held by single string of energized gravitons. This energy level is called ground state.
2. When Hydrogen atom is excited, the electron moves from ground state to excited state energy levels making a bigger circular orbit and having reached in this new energy levels, it also emits radiations. Hence absorption and emission of energy quanta occur simultaneously. Shifting is understood in inter orbital shift phenomenon.
3. When excitation is over, the electron once again come back to ground state energy level. All above mentioned events are triggered by different thoughts or atomic transcriptions from the nucleus or proton in case of hydrogen atom.
4. These atomic transcriptions are being triggered by conditioned stimulation of CCP by the message system made up of photons (second transcription or -ve charged photons or afferent path) coming from electron to proton and further they are transmitted by photons (second transcription made up of +ve charged photons, or efferent path) to electron. Having received the messages, electron works accordingly. Unless the thought is expressed, nature cannot work. as shown in Fig 7
5. When electron is in ground state, its interaction with energized graviton and electromagnetic photon is more hence IP -13.59eV (n=1) is required to remove electron from this energy level. During excited stage the interaction is different hence I.P. to remove electron from this state is -3.4eV (n=2), -1.511eV (n=3), -0.850eV (n=4), -0.544eV (n=5) respectively. It is the changing thought of interaction with energized graviton and electromagnetic photons that gives changing effect.
6. Electronic configuration of higher atoms could be known by studying I.P. curve. Working of hydrogen atom as shown in Fig 14.



**Fig 14** working of hydrogen atom – Divine MONB Theory underpins Cardiac Systole and Diastole

Quantum Mechanics ( QM) neither underpins chemistry nor biology . Neither chemistry underpins biology . All three phenomena are different. Biology is separate phenomenon and QM is separate . All are triggered by separate MIND . Hence Genetic mutations are never controlled by QM and tunneling .The basis of classical physics , Quantum Mechanics ( proton tunneling ) and genetic mutations is Mind. How did chemistry become biology would be discussed under how did first systole trigger in Heart in embryonic life in utro at 7 weeks of gestation.

**2.2. Atomic genetics and First systole of Heart**

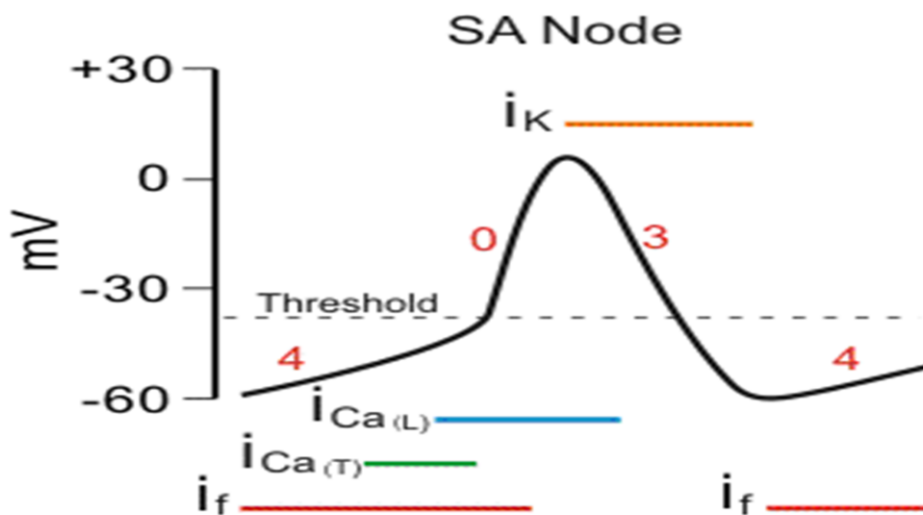


**Fig 15 SAN Action Potential**

How does first systole occur in utro?

There are 4 chemical gradient events as well as few electrical gradient events in one cardiac cycle .

1. 4- phase -Spontaneous diastolic depolarization (SDD) ( Na -in ) ( it is specific in SA node )
2. 0- Depolarization ( Na -in , Ca -in )
3. 3, Re-polarization ( K- out )
4. 3. Late phase - Re polarization ( Na -out , Ca out and K- in ) ( not shown in Figure 16)

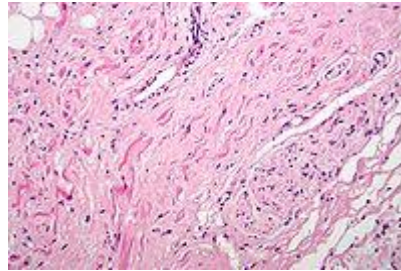


**Divine MONB Underpins Cardiac Systole And Diastole**

**Fig 16 S.A Node action potential ) [14]**

Before first systole occur in utero , there is chemical gradient ( Na and Ca outside and K –in side ) and there is electrical gradient ( out side +ve and inside –ve ) across the cell membrane of S.A.Node tissue. The energy supplied to maintain these two gradients by ATP and there is conscious pump and channels or gates also that keeps chemical gradients intact as shown in Fig 15 and Fig 16

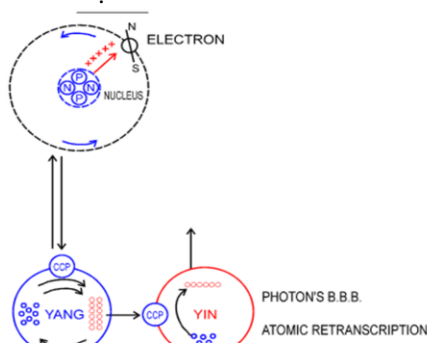
Histology [15]



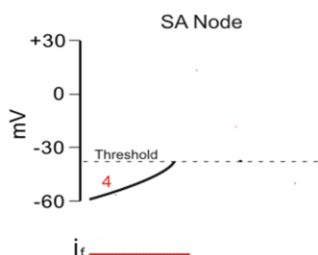
**Fig 17** histology of S.A.Node

High magnification micrograph of sinoatrial node tissue and an adjacent nerve fibre. H&E stain. The sinoatrial node is submyocardial at the lateral aspect of the junction of the superior vena cava and right atrium. Its deep aspect abuts cardiac myocytes belonging to the right atrium. Its superficial aspect is covered by adipose tissue. The SA node fibres vaguely resemble cardiac myocytes; however, they are measurably thinner, more tortuous and stain less intensely (on H&E) than cardiac myocytes. as shown in Fig 17.

**Membrane theory** - It is membrane of the cell of S.A. Node which is responsible for generation of chemical gradient as well as electrical gradient with generation of First Action potential ( AP) in utero . Membrane is made up of atoms and atom is made up of basic building blocks ( B.B.Bs) . One B.B.B ( Yang B.B.B ) is higher center and following thoughts are expressed here step by step as shown in Fig 18. , Figure 19 , Figure 20 and Figure 21



**ATOMIC TRANSCRIPTION OF SLOW DIASTOLIC DEPOLARIZATION**



Thoughts of chemical gradient and electric gradient .

- 1.Thought of influx of Na ions
- 2.Thought of opening of Na Channel gate .
3. Thought of release of energy from ATP .

These three messages ( Code PCPs ) are generated here .

They reach to respected target units via nucleus of the atom to electron of the atom of membrane .

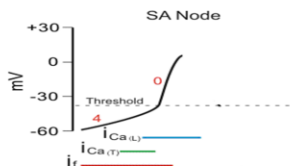
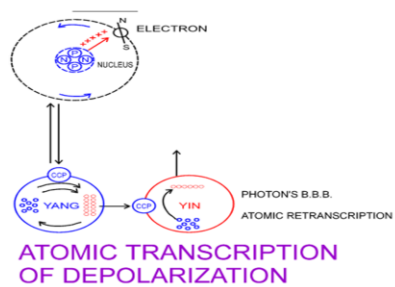
Having received the messages by respected targets units , the effect is visualized as

Slow diastolic depolarization. ( phase 4)

1. Influx of Na ions ( I<sub>f</sub>)
2. Opening of Na Channel
3. Energy is released from ATP and we see formation of action potential curve from -60 mV to -40 mV ( threshold level) .
4. The electrical gradient is +ve out side and –ve inside .

**Divine MONB Underpins Cardiac Systole And Diastole**

**Fig18** SDD phase



Thoughts of further chemical gradient and electric gradient.  
**Depolarization Phase 0 –**  
 1.Thought of influx of Na ions and Ca ions ( Ca (L) and Ca (T) )  
 2. Thought of opening of Na Channel gate and Ca channel gate .  
 3. Thought of energy release from ATP ( curve moves from -40mV to + 20mV )  
 4. Thought of conscious jump of electrical photon from +ve pole to -ve pole ( Propagation of wave )

These four messages ( Code PCPs ) are generated here .

They reach to respected targets units via nucleus of atom to electron of atom of the membrane

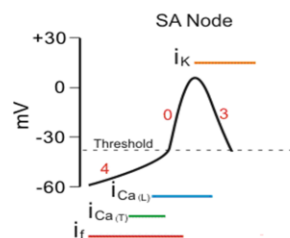
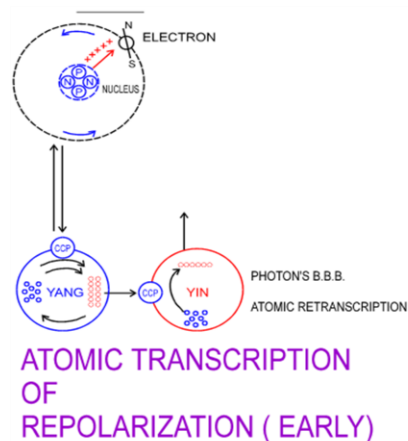
Having received the messages by respected target units , the effect is visualized as

**Depolarization (0)**  
 1. Influx of Na and Ca ions  
 2. Opening of Na and Ca channels  
 3. There is release of energy from ATP and curve moves from -40 mV to + 20 mV.  
 4. There is reversal of electrical gradient i.e. + ve inside the membrane and -ve outside .  
 5. This causes jumping of electrical energy photon from +ve pole to -ve pole inside membrane as propagation of depolarized wave .

**Divine MONB Underpins Cardiac Systole And Diastole**

Fig19 Depolarization Phase

This phase is central to rapid propagation of the cardiac impulse (conduction velocity,  $\theta=1$  m/s).As soon as depolarization wave propagates , we observe **1<sup>st</sup> systole of heart** .(Atria ) The propagated wave triggers depolarization thoughts of the atria upto A.V.Node . From here , the depolarization wave moves in bundles of His and then right and left bundle branch and finally reaching to Purkinje’s fibers and finally depolarizes ventricle and ventricle contracts..



During this phase following thoughts are expressed

1.Thought of efflux of K ions  
 2. Thought of Opening of K channel or gate  
 3. No thought of release of energy ( curve falls )  
 4. No thought of conscious jump

The two messages ( Code PCPs ) are generated

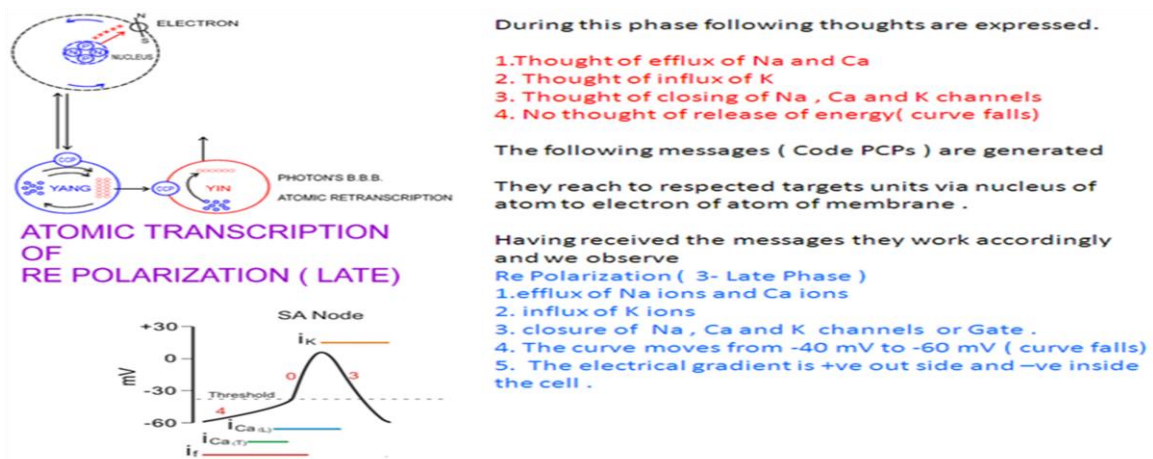
They reach to following target units via nucleus of the atom to electron of the atom of the membrane .

Having received the messages by target units , we observe

**Re polarization ( 3- early )**  
 1. Efflux of K ions  
 2. Opening of K channel  
 3. curve moves from +20 mv to -40 mV ( curve falls )  
 4. efflux of K ions . This causes reversal of electrical gradient i.e +ve outside and -ve inside across the membrane .

**Divine MONB Underpins Cardiac Systole And Diastole**

Fig 20 Re polarization –early Phase

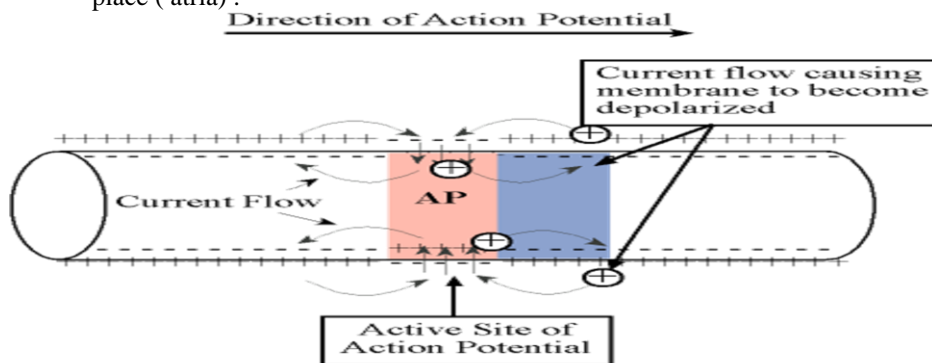


**Divine MONB Underpins Cardiac Systole And Diastole**

**Fig 21** Re polarization late Phase

The action potentials of pacemaker cells in the sinoatrial (SA) and atrioventricular (AV) nodes are significantly different from those in working myocardium. The membrane potential at the onset of phase 4 is more depolarized (-50 to -65 mV), undergoes slow diastolic depolarization, and gradually merges into phase 0. Apart from chemical gradient there develops electrical gradient . The functions of electrical gradient are

1. To have conscious jump electrical photon from +ve pole ( ion -Ca , Na ) to -ve pole( ion - K) inside from 1<sup>st</sup> ( SA node ) to 2<sup>nd</sup> another place ( atrial myocardium ) .
2. To depolarize the 2<sup>nd</sup> place to trigger chemical gradient across the membrane i.e. onset of 2<sup>nd</sup> depolarization . Having done this there would develop 2<sup>nd</sup> conscious jump of electrical photon from 2<sup>nd</sup> +ve pole ( Na ) to 2<sup>nd</sup> -ve pole ( K) inside as well as outside from 2<sup>nd</sup> place ( atria ) to 3<sup>rd</sup> place ( atria ) .



**Divine MONB Underpins Cardiac Systole And Diastole**

**Fig 22** propagation of depolarized wave

This 'mini-circuit' as shown in Figure 22 stimulates the adjacent area and, therefore, an action potential occurs. This process repeats itself and action potentials move down the nerve cell membrane. This 'movement' of action potentials is called an impulse.

3. Thus current flows from one place ( SA node to myocardium of atria )
4. The electrical energy during conscious jumping is supplied by ATP of mitochondria . Hence the voltage of cell inside moves from -60 mV to -40mV to + 20 mV. Which could be recorded. During depolarization(0) and re-polarization (3), this energy ( from ATP ) is used in making of chemical gradient . And during 3 phase ( late ) energy is used in restoration of chemical gradient ( Na out ) (Ca Out) and (K in ) and thus electrical gradient is also restored +ve outside and -ve inside during re polarization .
5. In phase 4 again , Na ion goes in and thus SDD is triggered . The cycle is repeated .

It is the cycle of chemical gradient as well as electrical gradient with conscious jumping of electrical energy photons i.e, propagation of depolarized wave from one part to another part of heart . The energy is supplied by ATP . **The all effects are triggered and controlled by thoughts step by step without resting potential .**

### III. Conclusion

The behavior of Na , K , Ca in chemistry is different . But once they enter in body , their behavior is different and it is due to higher thought expressions by B.B.B s of which they are made up of . That is how chemistry ends and biology begins . It is the cycle of chemical gradient as well as electrical gradient with conscious jumping of electrical energy photons i.e, propagation of depolarized wave from one part to another part of heart . The energy is supplied by ATP . The all effects are triggered and controlled by thoughts step by step without resting potential . Dr Mc Fadden and Dr Al Khalili who are pioneer in molecular biology and nuclear physics are unnecessary explaining Biology with QM. Both are separate identity or phenomena and both are triggered by MIND the ToE ( theory of every thing ) [2] Divine MONB theory that underpins both cardiac systole and diastole . In divine atomic model ( divine MONB ) , it is CCP in the atomic nucleus that triggers and control cardiac systole and diastole at each step of cycle . There is feed back also to higher centers before next step is triggered .

### References

- [1] [https://www.youtube.com/watch?v=Mm6Mt9BoZ\\_M](https://www.youtube.com/watch?v=Mm6Mt9BoZ_M)
- [2] V M Das *International journal of innovative research and development* **Volume 3 Issue 8** p 194- 210 (2014)
- [3] V M Das *International Journal of Sciences: Basic and Applied Research (IJSBAR)* **Volume 17, No 1**, p 292-324 (2014)
- [4] V M Das *International Journal of Sciences: Basic and Applied Research*, **Volume 17, No 1**, p 148-185 (2014)
- [5] V M Das *International Journal of Sciences: Basic and Applied Research* **Volume 16, No 2**, p 274-309 (2014)
- [6] W S Harris *JAMA Arch Intern Med.* **Volume 159, N019** , Oct-25 p 2273-2278 (1999)
- [7] V M Das *International Journal of Sciences: Basic and Applied Research* **volume 16 , number 1** , p 311-338 (2014)
- [8] V M Das *Social and basic sciences and research review* **Volume 2**, Issue 4 p 197-255 (2014)
- [9] V.M.Das *Asian Journal of Science and Technology* **Vol.06 Issue 12**, pp.2075-2099 (2015)
- [10] <file:///C:/Documents%20and%20Settings/hp/Desktop/Wave%20function%20-%20Wikipedia.%20the%20free%20encyclopedia.html>
- [11] [https://in.images.search.vahoo.com/yhs/search; vlt=A2oKmM1anwFVUmUAjannHgX.?p=tunnel+effect+in+physics&fr=&fr2=piv-web&hspart=CND&hsimp=yhs-002&type=A2E3463EF79\\_s55\\_g\\_e](https://in.images.search.vahoo.com/yhs/search; vlt=A2oKmM1anwFVUmUAjannHgX.?p=tunnel+effect+in+physics&fr=&fr2=piv-web&hspart=CND&hsimp=yhs-002&type=A2E3463EF79_s55_g_e)
- [12] <http://www.newscientist.com/article/dn26893-wave-function-gets-real-in-quantum-experiment.html#.VQDCvdJ9s6Y>
- [13] <http://physicsworld.com/cws/article/indepth/2009/jul/01/the-quantum-life>
- [14] CV physiology <http://www.cvphysiology.com/Arrhythmias/A004.htm> **RK Revised 12/13/08**
- [15] Wikipedia [http://en.wikipedia.org/wiki/Sinoatrial\\_node](http://en.wikipedia.org/wiki/Sinoatrial_node)

### 5. Acknowledgement

**I am thankful to Prof. APJ Abdul Kalam to talk to me on consciousness or Mind and Mass**



Discussing Mind ( information s ) and Mass ( B-Bit)with Physicist an Ex-President of India and winner of Bharat rattan Prof A.P.J Abdul Kalam . 2013 – sept .After 40 minutes of discussion he encouraged me by saying ,” Great Work”.