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RESEARCH ARTICLE

WHAT IS LIFE? PART -2 (PHOTOSYNTHESIS) QUANTUM MECHANICS (QM) NEITHER UNDERPINS CHEMISTRY NOR BIOLOGY

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ABSTRACT

Graham Fleming, the principal investigator for the study. "This wavelike characteristic can explain the extreme efficiency of the energy transfer because it enables the system to simultaneously sample all the potential energy pathways and choose the most efficient one." is unnecessary explaining Biology- photosynthesis with QM –superposition (superposition of possible trajectories). Both are separate identity or phenomena and both are triggered by MIND the ToE (theory of everything). Neither excited electrons carry energy through a photosynthetic system by hopping at random from one molecule to the next (Physical conduction) nor electrons take advantage of the weirdness of quantum physics traveling in the form of a coherent wave that can try out different paths simultaneously so that the electrons could then choose the best route explaining photosynthesis's high efficiency. Rather, excited electrons carry photon energy in form of charged energy through a well destined path of photosynthetic system by the phenomenon called divine conduction mechanics or life phenomenon where thought is triggering and controlling the path of excited electron explaining photosynthesis's high efficiency. 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. One has to equip 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 (Vijay Mohan Das, 2014) with introduction of energized gravitons, primary fermions, primary bosons, Basic Building Blocks, Mind and Tachyons.

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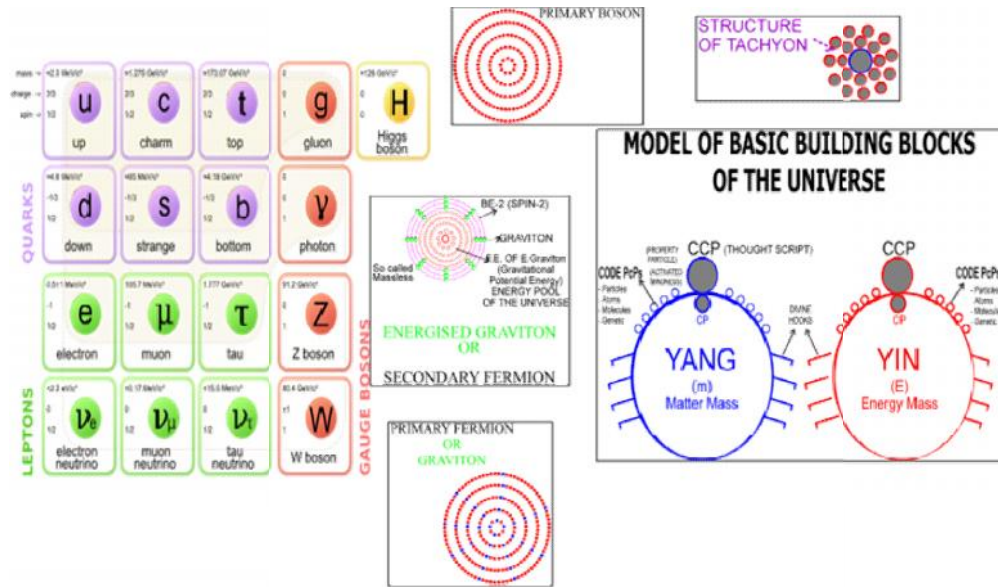
INTRODUCTION

The behavior of Photon, electron and proton in photosynthesis is triggered by higher thought expressions by the higher center (B.B.B) of the atoms of the membrane of thylakoid membrane. Having received the messages (Code PcPs) by second transcription their behavior is not physical rather they start moving in different paths destined by the thoughts (it is not probability of selecting the path –or superposition of possible trajectories,). Hence they are not physical units of physics and chemistry rather they are life units and 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 and physics ends and biology begins. Thus Quantum Mechanics (QM- superposition - superposition of possible trajectories), neither underpins chemistry nor biology and simultaneously quantum superposition is myth.

The entire reactions both light reaction as well as Calvin Cycle are triggered and controlled by different thoughts step by step. The trajectories taken by electrons and protons are not quantum trajectory

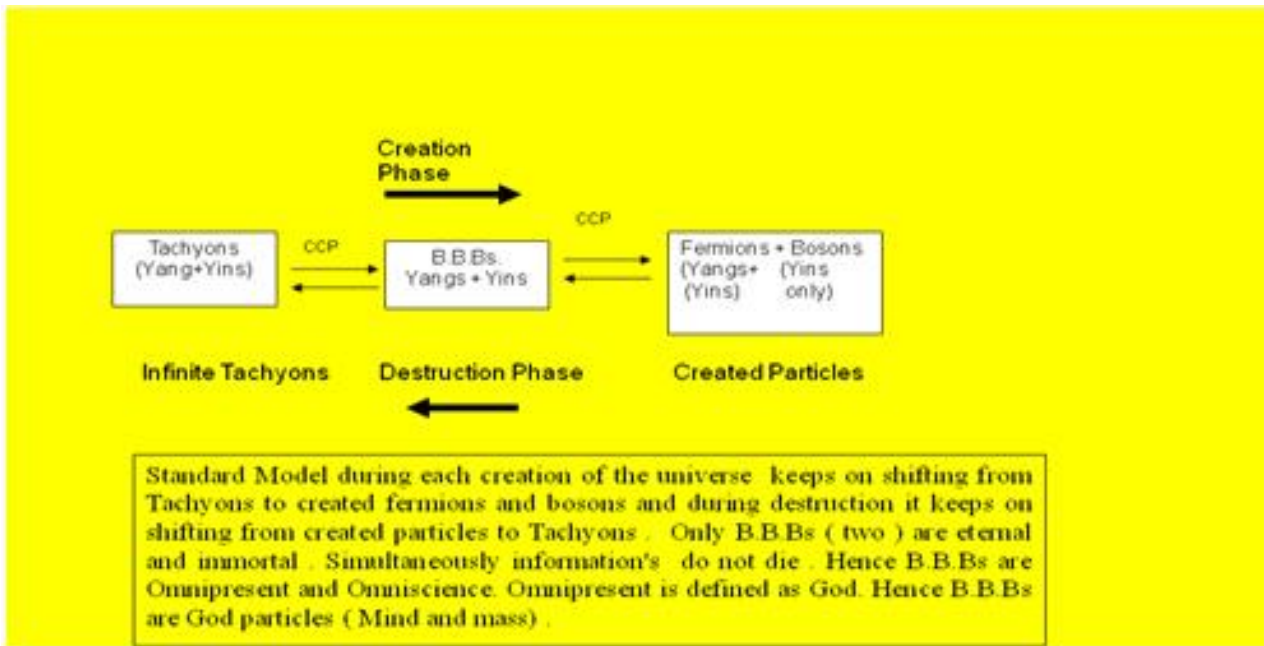
(QM –superposition (superposition of possible trajectory) rather it is destined trajectory i.e. trajectory destined by fixed thought. That thought is triggered by higher centre present in chloroplast or thylakoid membrane. Hence it is divine and that is life. There is difference in quantum world and life world. The behavior of micro particle in quantum world is different as it is triggered by lower thoughts of B.B.B. But in life world the behavior of micro particles are triggered by higher thought expressions of B.B.B. Hence neither of these worlds underpins each other.

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Standard model completed with Fundamental particles and Mind And Tachyons

(Standard Model chart (Vijay Mohan Das, 2014))

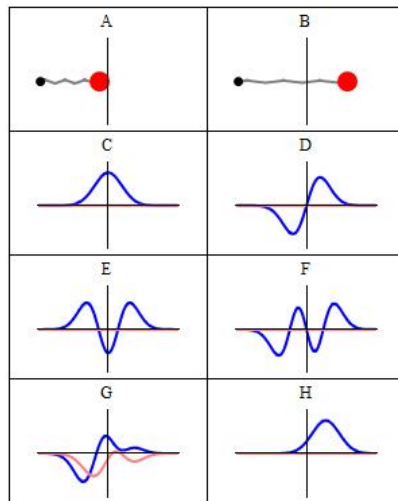


(One Creation and Destruction Cycle)

What is Quantum Mechanics (QM)?

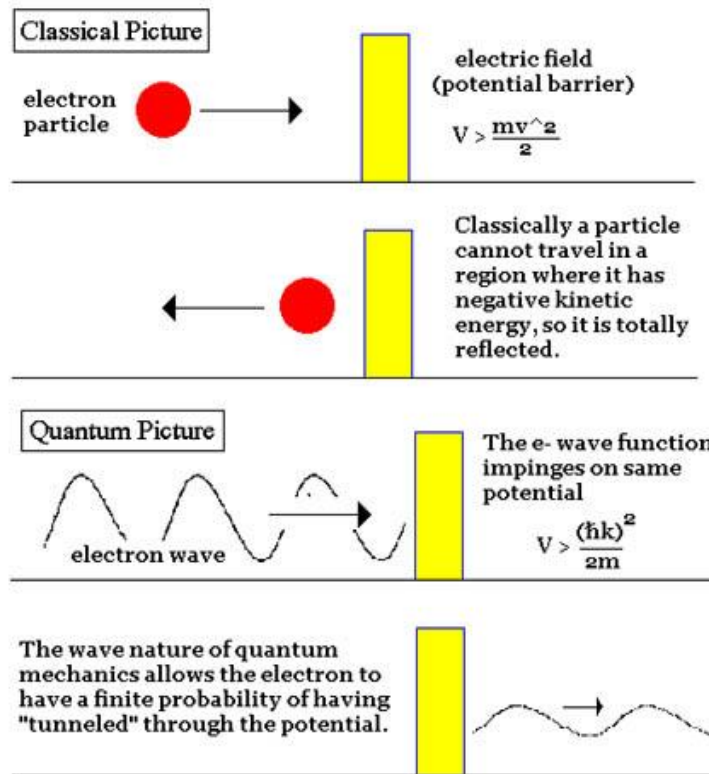
Wave Particle Duality - A Myth

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. (file:///C:/Documents%20and%20Settings/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.

Quantum Tunneling --wrong depiction



(Fig -) 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=piv-web&hsparm=CND&hsimp=yhs-002&type=A2E3463EF79_s55_g_e)

Wave function gets real in quantum experiment (<http://www.newscientist.com/article/dn26893-wave-function-gets-real-in-quantum-experiment.html#.VQDCvdJ9s6Y>). It is all Myth and Illusion

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. (<http://www.newscientist.com/article/dn26893-wave-function-gets-real-in-quantum-experiment.html#.VQDCvdJ9s6Y>) 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. 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?" 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. "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. 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. 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. 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. 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. 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?"

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Quantum superposition

In nuclear physics nucleus of Atom shows different shapes at one time . Each different shape is triggered by a different thought (changing thoughts). Hence it looks to us nucleus is showing quantum super position. It is the Mind that triggers the effect in microscopic world. Again in interference it looks that each photon moves simultaneously in a superposition of possible trajectories, and, furthermore, measurement of the trajectory causes the superposition of states to collapse to a single position. Actually in interference it is redistribution of photon particles by thoughts which is moving in wave pattern producing light and dark band. Hence Quantum superposition is a Myth.

Quantum weirdness

In quantum mechanics a particle can be in a few places at once. It sounds strange. So strange, that some pioneers of quantum mechanics (including, famously, Albert Einstein) didn't want to believe in it: not because of any disagreement with experiment, not because of any lack of mathematical beauty, just because it didn't fit their philosophical view of physics. It is also myth.

Decoherence

Why quantum behavior in small scale (micro level) becomes classical behavior at macro level? The mind expression is different in both. In QM the thoughts are changing, hence we cannot precisely predict the phenomenon. But in classical behavior the thoughts are fixed, hence we can precisely predict the phenomenon.

Quantum coherence

Particles can communicate each other. Subatomic particles are able to cooperate. These subatomic particles or waves not only know each other but are also highly interlinked by a band of shared electromagnetic field so that they can communicate with each other.

It is also myth. The truth is subatomic particles are divine not waves and they are coherent due to mind of which they are made up of. It is the mind that is the cause of quantum coherence in particles rather than anything else. The coherence of particle world, and atomic world and molecular world and life science world are different as thought controlling these worlds are different. No two coherence of these different worlds underpins each other.

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 thought is 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 communicate Almighty B.B.B situated in invisible universe about more than 4239.22 Mpc through First transcription (within no time).

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 (Code PcPs) used to go from one B.B.B. to another B.B.B. by atomic transcription. Messages were carried by atomic genes with 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-1)

How does nature work & triggering of normal and abnormal effects (Fig-2 and 3)

To understand creation physics we have to see Fig- 2 and Fig -3. There are two types of thought stimulation. 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.

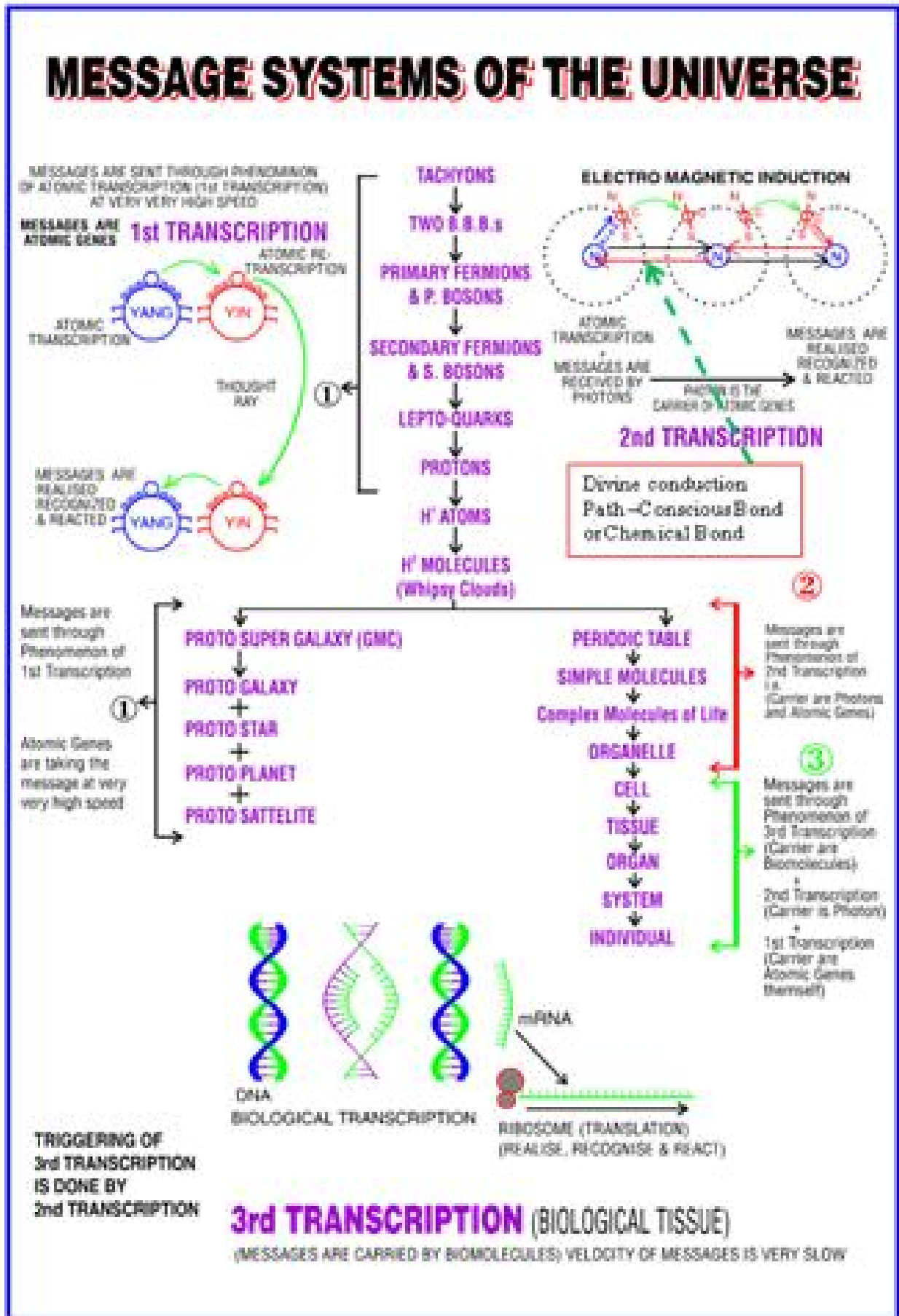


Fig.1.

HOW DOES NATURE WORK CAUSE & EFFECT CONCEPT

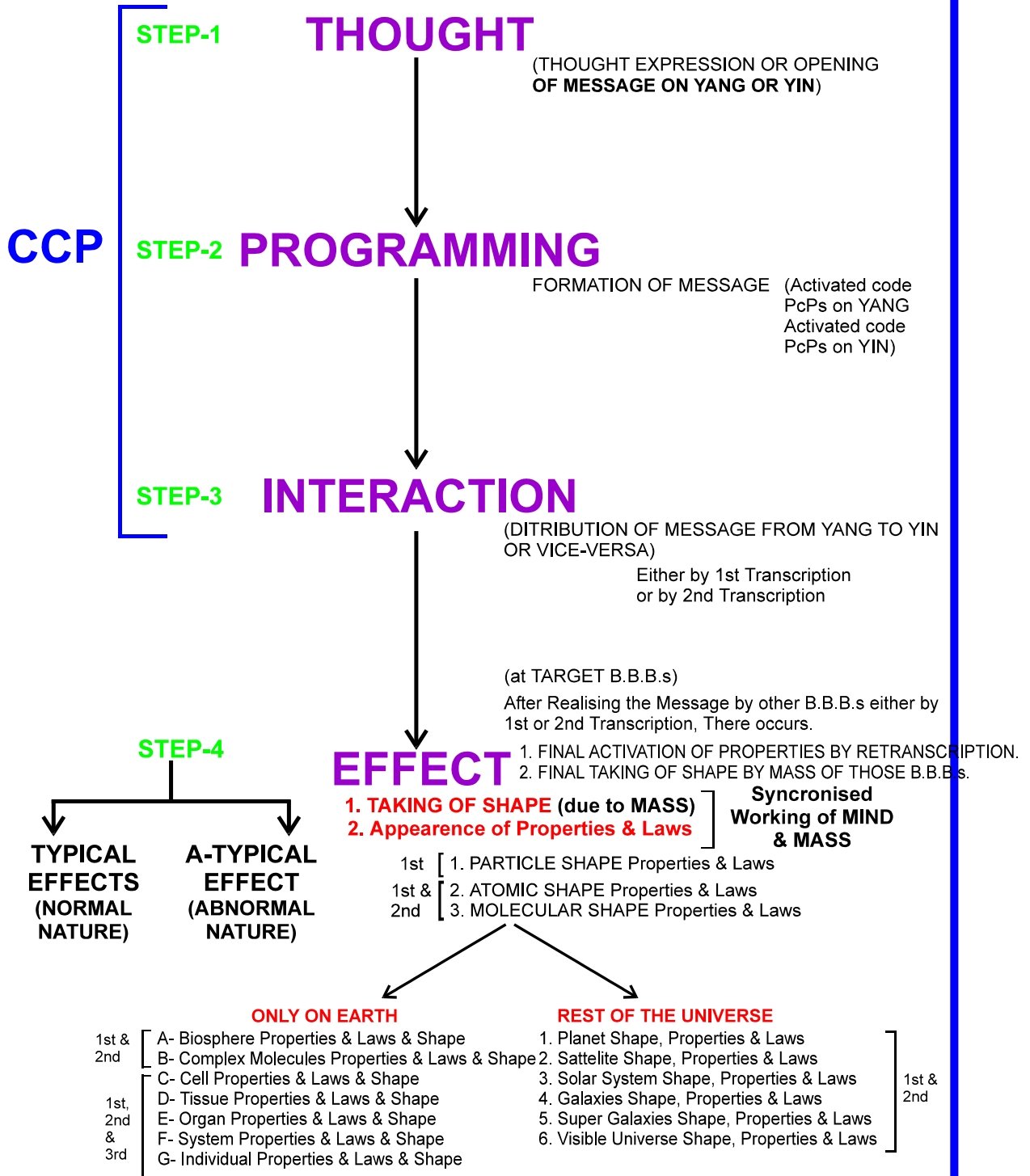


Fig.2.

STIMULATION OF THOUGHT EXPRESSION

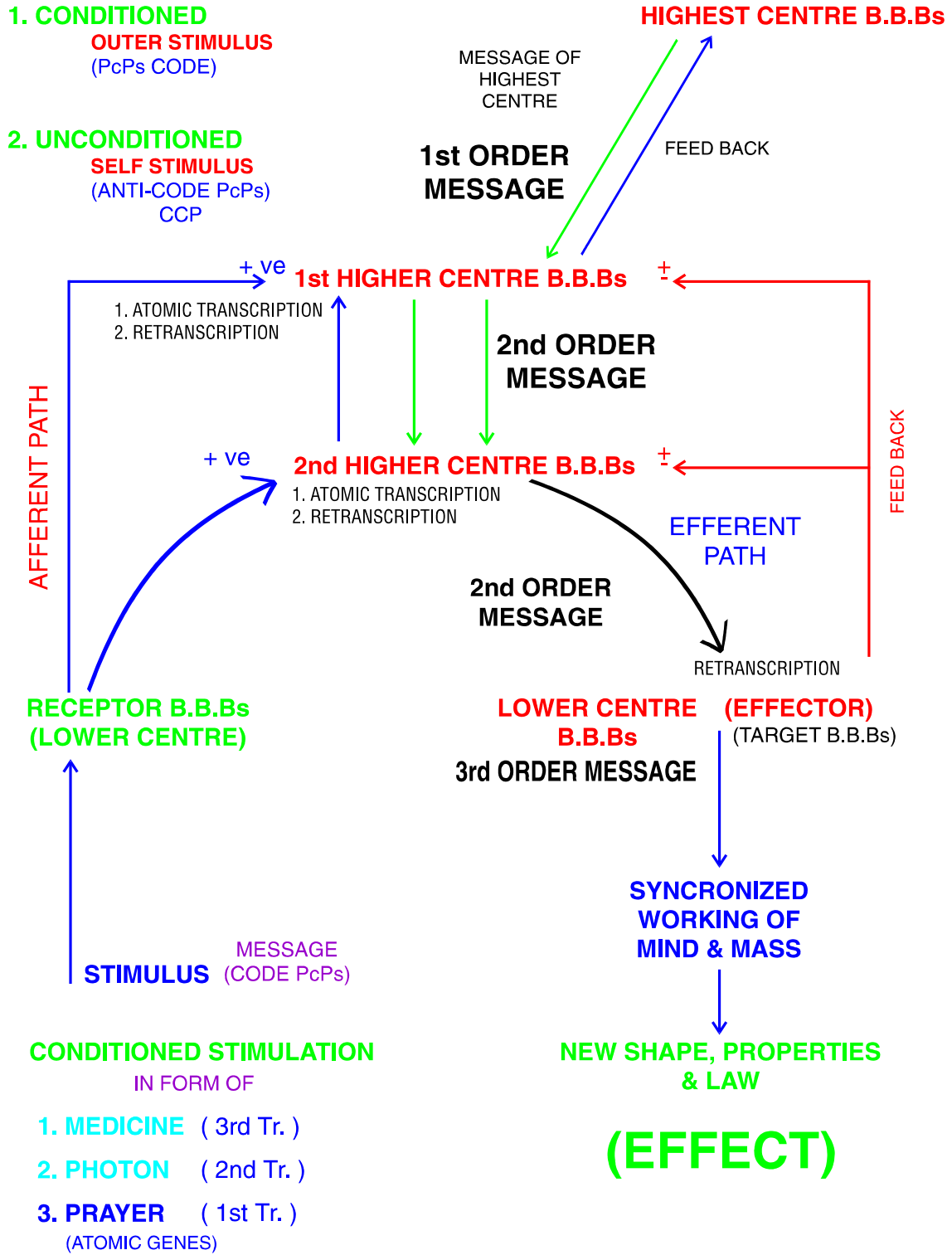


Fig.3.

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 particles 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.

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 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. **See (Figure.4).**

Photosynthesis - According to Physicist – It all Myth and illusion

Although the previous examples have been in the literature for many years, they have not led to a widespread acceptance that quantum physics is important for biology. However, the subject matter is sufficiently rich that I held an entire workshop on quantum biology at the BEYOND Center for Fundamental Concepts in Science at Arizona State University in December 2007, which was followed by another organized by physicists Vlatko Vedral and Elisabeth Rieper at the National University of Singapore in January 2009. This flurry of activity was spurred by two new and rather dramatic experimental developments.

The first involves a study of photosynthesis by Berkeley chemist Graham Fleming and his group. Photosynthesis is a highly complicated and sophisticated mechanism that harvests light energy to split water by using individual photons to create a cascade of reactions. The process is extraordinarily efficient, and represents a classic example of how evolution has fine-tuned the design of a physical system to attain near-optimal performance.

The primary receptor of the light energy is a complex of pigment molecules known as chromophores. These can become excited and pass on the energy of excitation in a multistage process to the final reaction centre where charge separation occurs. Because the wavelength of the photon is much larger than the molecular assemblage, a superposition state of many excited pigment molecules is initially created, and this proceeds to evolve over a timescale of some hundreds of femtoseconds. Fleming and his group used laser excitation and probe pulses to study the relaxation pathways of these light-harvesting complexes, and observed a type of "quantum beating" effect in which the maximum amplitude of the excitation visits and revisits different molecules in the system coherently. Fleming claims that, with appropriate timing, the system can "grab" the coherent excitation (which persists for a few hundred femtoseconds) with greater probability than if it was merely distributed according to classical statistical mechanics. He believes this could lead to a many-fold increase in the speed of the energy transfer. The results have recently been complemented by the work of Elisabetta Collini and Gregory Scholes at the University of Toronto, who demonstrated room-temperature **coherence in electron-excitation transfer along polymer chains**. An important feature of photosynthesis is that the molecular architecture involved is structured in a highly unusual and compact manner, which suggests that it has been "customized" to exploit long-range quantum effects. It could be that the particular configuration is efficient at preserving coherence for surprisingly long durations, thereby enabling the system to "explore" many pathways simultaneously and thus speed up a "solution" (i.e. delivering energy to the reaction centre).

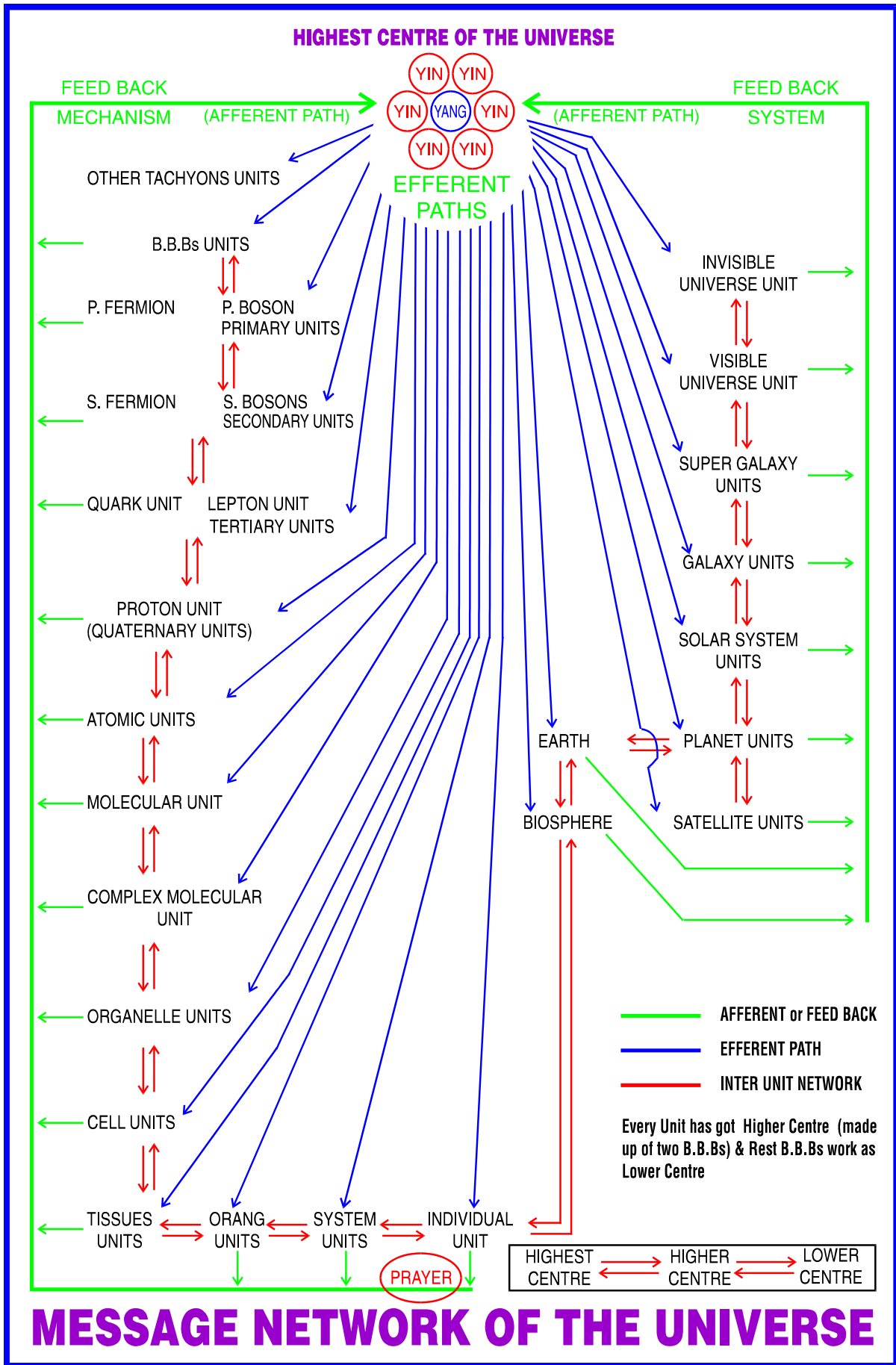
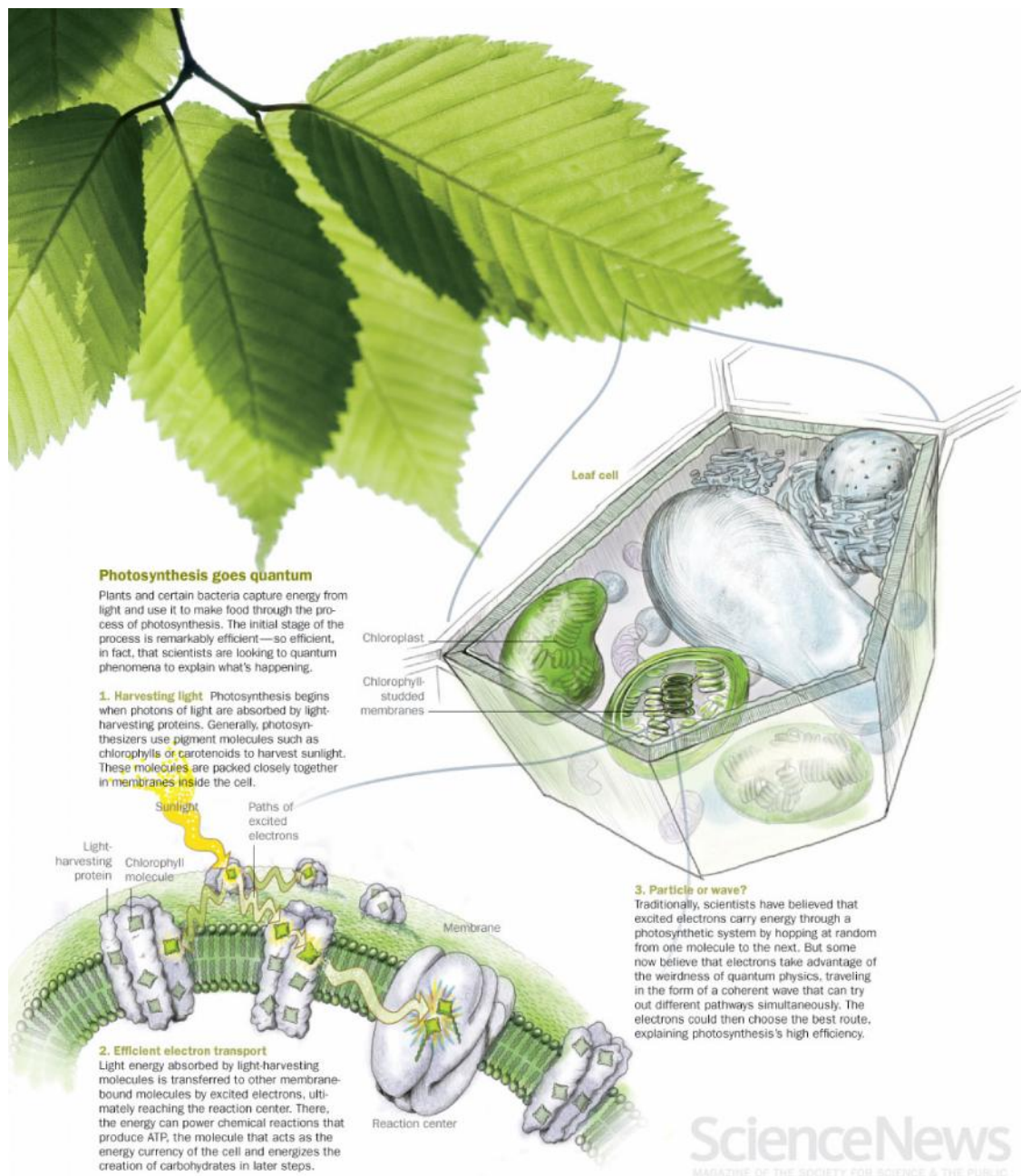


Fig.4.

Quantum Secrets of Photosynthesis Revealed (<http://www2.lbl.gov/Science-Articles/Archive/PBD-quantum-secrets.html>)- It is also Myth .

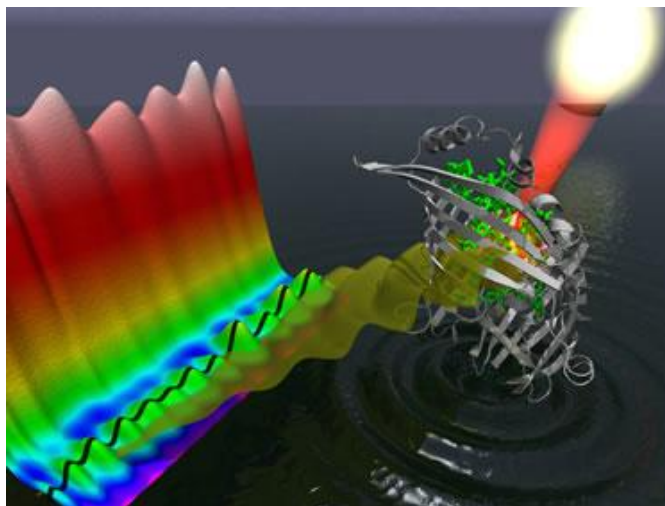
Contact: Lynn Yarris (510) 486-5375, lcyearis@lbl.gov



(Quantum Beating effect – wrong depiction–

(https://in.images.search.yahoo.com/yhs/search;_ylt=A2oKmMwRNihV310AQDLnHgX.?p=%E2%80%9Cquantum+beating%E2%80%9D+effect&fr=&fr2=piv-web&hsparm=CND&hsimp=yhs-002&type=A2E3463EF79_s55_g_e))

BERKELEY, CA — Through photosynthesis, green plants and cyanobacteria are able to transfer sunlight energy to molecular reaction centers for conversion into chemical energy with nearly 100-percent efficiency. Speed is the key – the transfer of the solar energy takes place almost instantaneously so little energy is wasted as heat. How photosynthesis achieves this near instantaneous energy transfer is a long-standing mystery that may have finally been solved.



(Quantum Beating in Photo synthesis)

Sunlight absorbed by bacteriochlorophyll (green) within the FMO protein (gray) generates a wavelike motion of excitation energy whose quantum mechanical properties can be mapped through the use of two-dimensional electronic spectroscopy. (Image courtesy of Greg Engel, Lawrence Berkeley National Laboratory, Physical Biosciences Division)

A study led by researchers with the U.S. Department of Energy's Lawrence Berkeley National Laboratory (Berkeley Lab) and the University of California (UC) at Berkeley reports that the answer lies in quantum mechanical effects. Results of the study are presented in the April 12, 2007 issue of the journal **Nature**. "We have obtained the first direct evidence that remarkably long-lived wavelike electronic quantum coherence plays an important part in energy transfer processes during photosynthesis," said Graham Fleming, the principal investigator for the study. "This wavelike characteristic can explain the extreme efficiency of the energy transfer because it enables the system to simultaneously sample all the potential energy pathways and choose the most efficient one."

Fleming is the Deputy Director of Berkeley Lab, a professor of chemistry at UC Berkeley, and an internationally acclaimed leader in spectroscopic studies of the photosynthetic process. In a paper entitled, **Evidence for wavelike energy transfer through quantum coherence in photosynthetic systems**, he and his collaborators report the detection of "quantum beating" signals, coherent electronic oscillations in both donor and acceptor molecules, generated by light-induced energy excitations, like the ripples formed when stones are tossed into a pond. Electronic spectroscopy measurements made on a femtosecond (millionths of a billionth of a second) time-scale showed these oscillations meeting and interfering constructively, forming wavelike motions of energy (superposition states) that can explore all potential energy pathways simultaneously and reversibly, meaning they can retreat from wrong pathways with no penalty. This finding contradicts the classical description of the photosynthetic energy transfer process as one in which excitation energy hops from light-capturing pigment molecules to reaction center molecules step-by-step down the molecular energy ladder.

"The **classical hopping description of the energy transfer process is both inadequate and inaccurate**," said Fleming. "It gives the wrong picture of how the process actually works, and misses a crucial aspect of the reason for the wonderful efficiency." (<http://www2.lbl.gov/Science-Articles/Archive/PBD-quantum-secrets.html>)

Structure

Photosynthetic membrane and organelles (Wikipedia -<http://en.wikipedia.org/wiki/Photosynthesis> 28 March 2015, at 19:07) (fig 5)

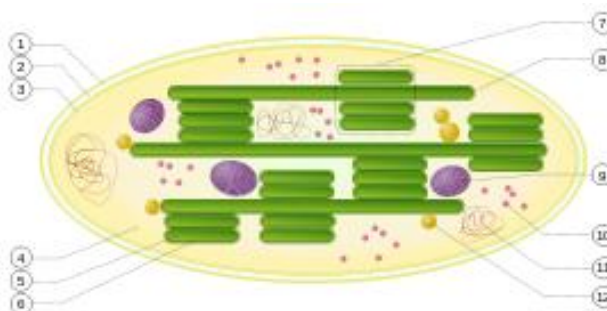


Fig.5.

Chloroplast ultra structure:

1. outer membrane
2. intermembrane space
3. inner membrane (1+2+3: envelope)
4. stroma (aqueous fluid)
5. thylakoid lumen (inside of thylakoid)
6. thylakoid membrane
7. granum (stack of thylakoids)
8. thylakoid (lamella)
9. Starch
10. ribosome
11. plastidial DNA
12. plastoglobule (drop of lipids).

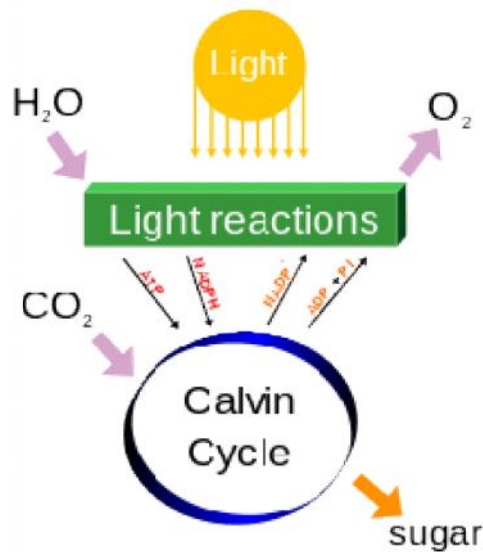


Fig.6.

In chloroplast, light reaction site is inside thylakoid (thylakoid membrane) and the second reaction site is stroma (aqueous fluid). (Fig 6).

Thylakoid membrane structure and function (Fig -7)

Electron transfer Path as well Proton cycle there is trapping of Sun light (Photon) first into charge energy of the atoms of thylakoid membrane . It then shifts to electron and protons and finally shifting into bond energy (chemical energy) of ATP and NADPH. (Fig 7).

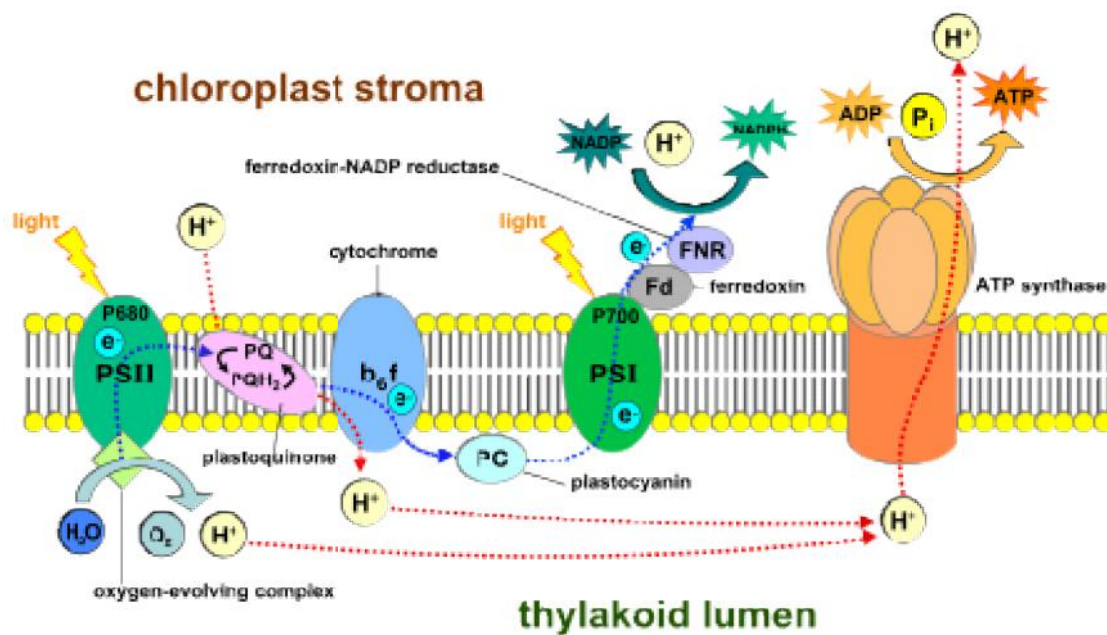


Fig.7.

Electron Path by Z scheme (Thylokoid membrane) (Fig -8)

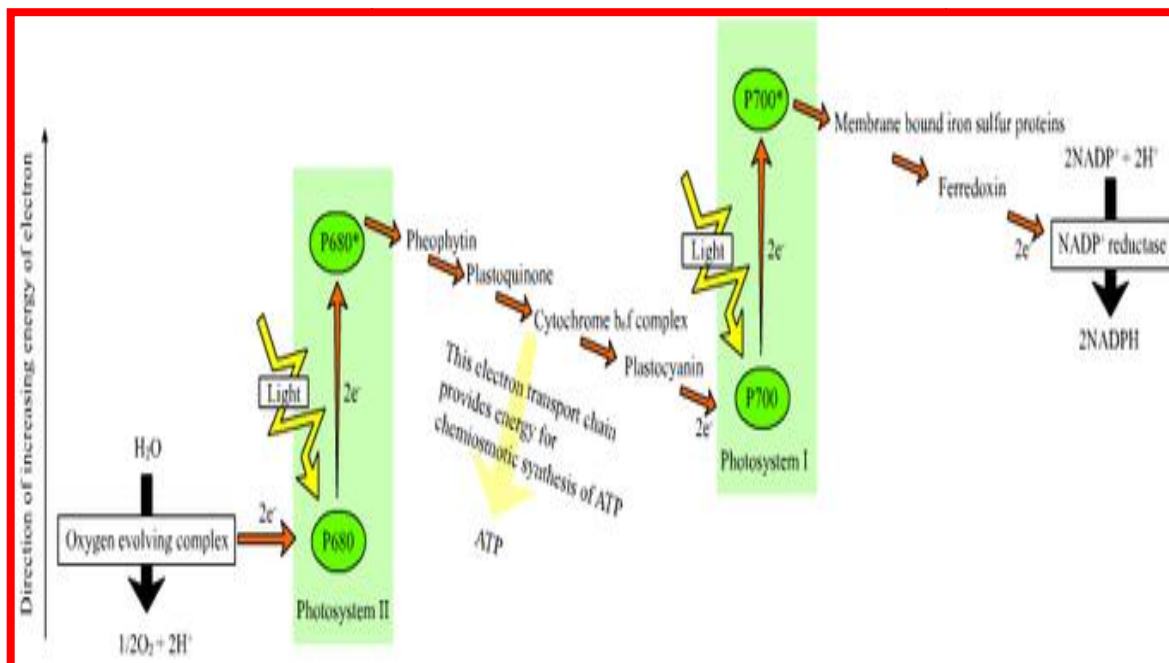


Fig.8.

Calvin Cycle or Energy Transfer Cycle (In Stroma (aqueous fluid)of chloroplast (Fig -9)

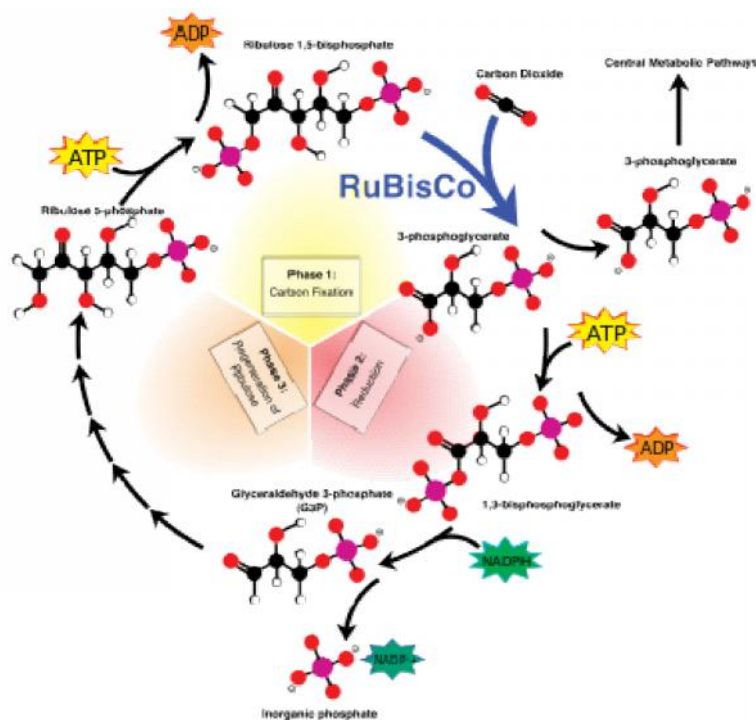


Fig.9.

1. In photosynthesis, it has two parts one is light reaction – Electron transfer cycle and proton transfer cycle with trapping of Light photon by atoms of thylakoid and transforming into charge energy of electron and proton. Later by electron transfer system to bond energy of NADPH and by proton transfer system via ATP synthase to ATP.

2. In second part this chemical bond energy is transferred to G3P the precursor of sucrose or glucose. It is also called energy transfer cycle (from ATP and NADPH to different molecules and finally to G3P) apart from Calvin cycle.

3. Conditioned stimulation of CCP of thylakoid membrane which is higher center (Fig 10) when photon strikes the electron, the thought of locking and thought of transforming light photon into charge photon of electron are triggered. The messages go in form of Code PcPs and are carried by second transcription from nucleus of atom to electrons where light photons have struck. Having received the messages (Code PcPs), photons are locked and they get transformed into charge energy (green) of electron (dark blue). (Fig 10)

4. Further Thought of transfer of charge energy (green) is triggered by same higher center (CCP) and the charged energy is transferred to Proton (light blue) and electron (orange) which are created from **water reaction**. (Fig 10).

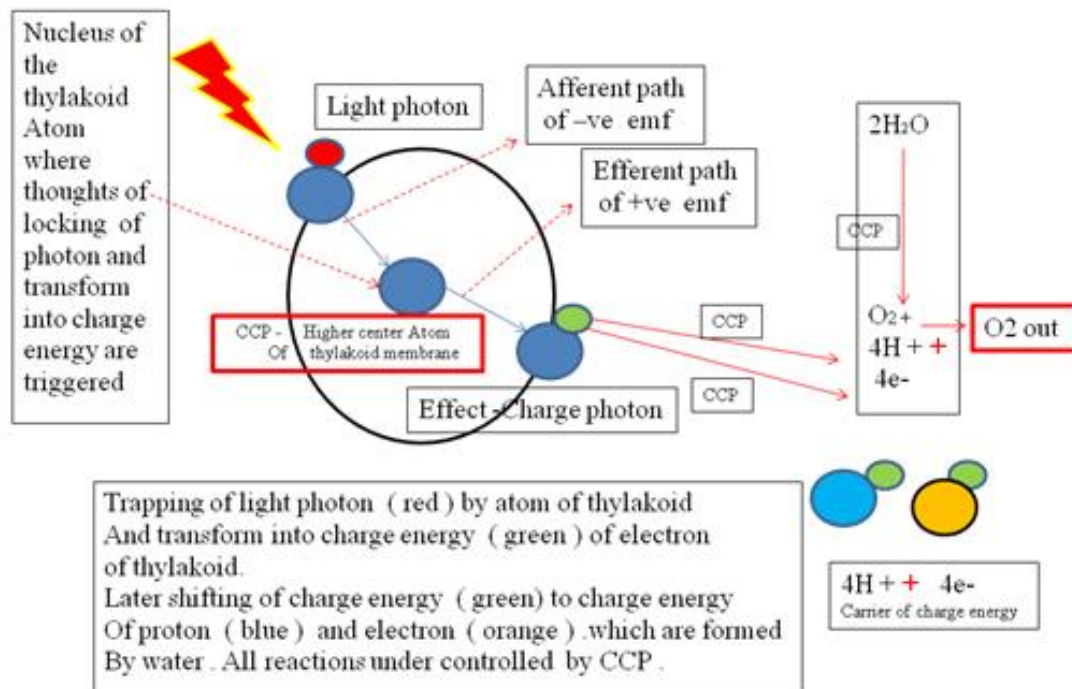


Fig.10.

Photosynthesis occurs in two stages. In the first stage, *light-dependent reactions* or *light reactions* capture the energy of light and use it to make the energy-storage molecules ATP and NADPH. (Depiction in Fig 10)

Creation of Energy storage molecules ATP and NADPH.

Electron transfer path is different and proton transfer path is different. This is triggered by again higher center involved in photosynthesis. Having received the messages by charged electron and charged proton, they move accordingly. Electron takes the path via photosystem 2 to cytochrome to photosystem 1 to Ferredoxin and in presence of FDR enzyme, it transfers the charged energy to bond energy of NADPH. At each step of transfer of electrons is triggered and controlled by CCP. Unless thought is expressed, nature could not proceed in particular direction. It is divine working of electron which is triggered by MIND and it is not Quantum superposition. Neither excited electrons carry energy through a photosynthetic system by hopping at random from one molecule to the next (Physical conduction) nor electrons take advantage of the weirdness of quantum physics traveling in the form of a coherent wave that can try out different paths simultaneously so that the electrons could then choose the best route explaining photosynthesis's high efficiency. Rather, excited electrons carry photon energy in form of charged energy through a well destined path of photosynthetic system by the phenomenon called divine conduction mechanics or life phenomenon (Fig 11.2) where thought is triggering and controlling the path of excited electron explaining photosynthesis's high efficiency (Fig 11.1) and (Fig 11).

What is divine conduction Mechanics? (Fig 1)

Let us first see this mechanics in physical world. A cyclotron is device by which positively charged particle can be accelerated and the desired nuclear reaction can be brought about.

Principle A positively charged particle can be accelerated to high energy with the help of an oscillating electric field, by making it cross the same electric field time and again with the use of a strong magnetic field.

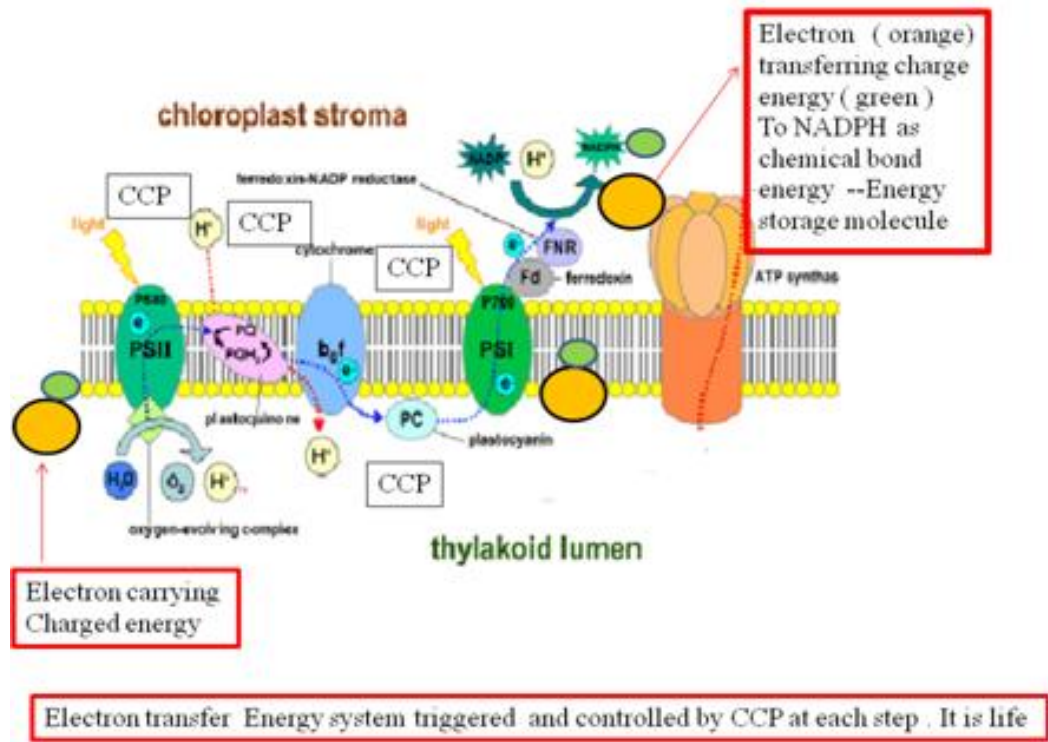


Fig.11. Light energy from the sun is converted into chemical energy of NADPH

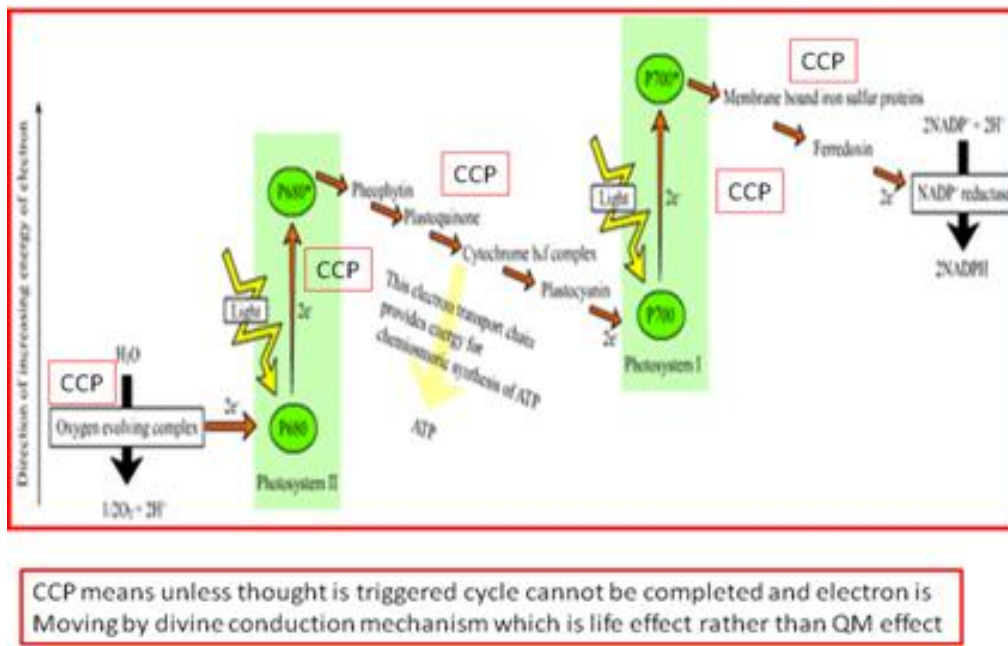


Fig.11.1

Construction It consists of two dees or D-shaped metal chambers D_1 and D_2 . The dees are separated by a small distance. The two dees are perpendicular to their plane. P is the position where the ion source is placed. The dees are maintained to a potential difference whose polarity alternates with the same frequency as the circular motion of the particles. The dees are closed in a steel box placed between the poles of a strong electromagnet. The magnetic field is perpendicular to the plane of the dees. In cyclotron the path is designed by two fields (Photons), electrical and magnetic. It is conditioned thought stimulation in designing path (circular) by cyclotron. But in biology the thoughts are unconditioned and charged particle's path could be designed by chemical conscious bond (photons).

Proton transfer energy system is also triggered by again by thoughts triggered and controlled by higher center . The messages (Code PcPs) are received by respected target units. Having received the messages they work accordingly and $4H^+$ they carry the charged energy to ADP via ATP synthase and to form ATP and ATP transform the charged energy of proton into chemical bond energy of ATP. The proton transfer energy system is triggered and controlled by CCP. (Fig 12).

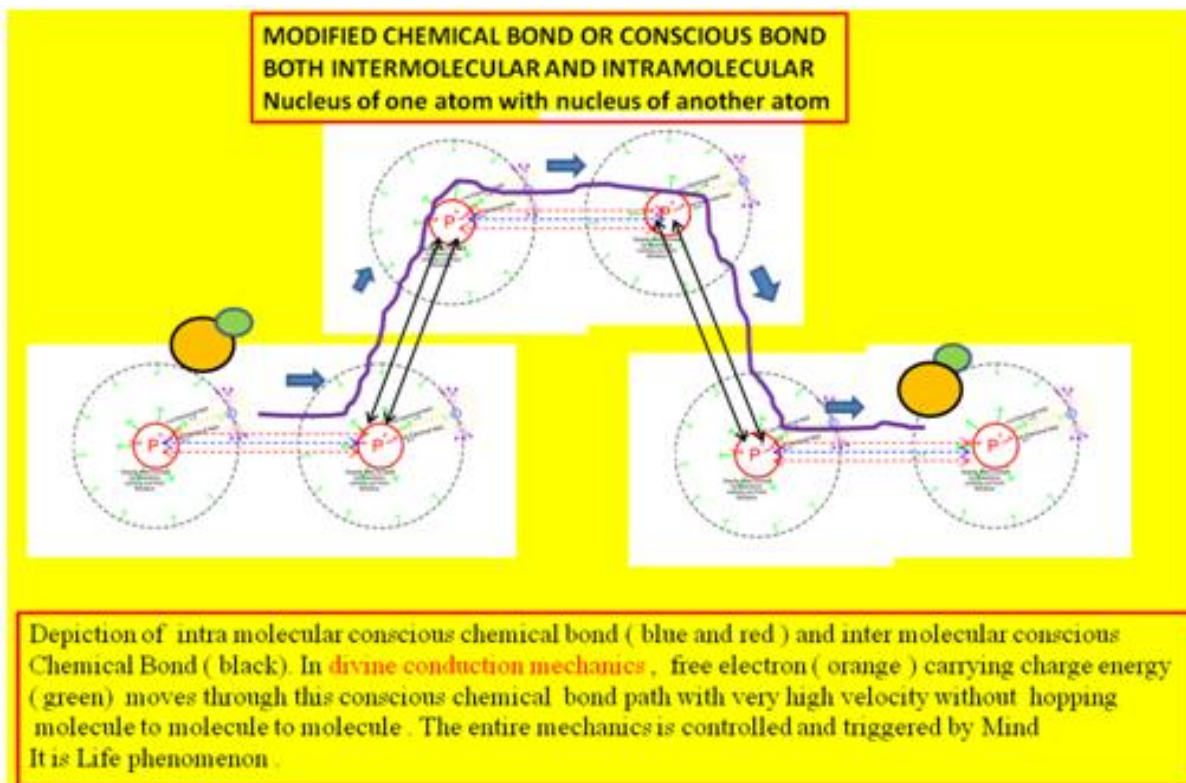


Fig.11.2

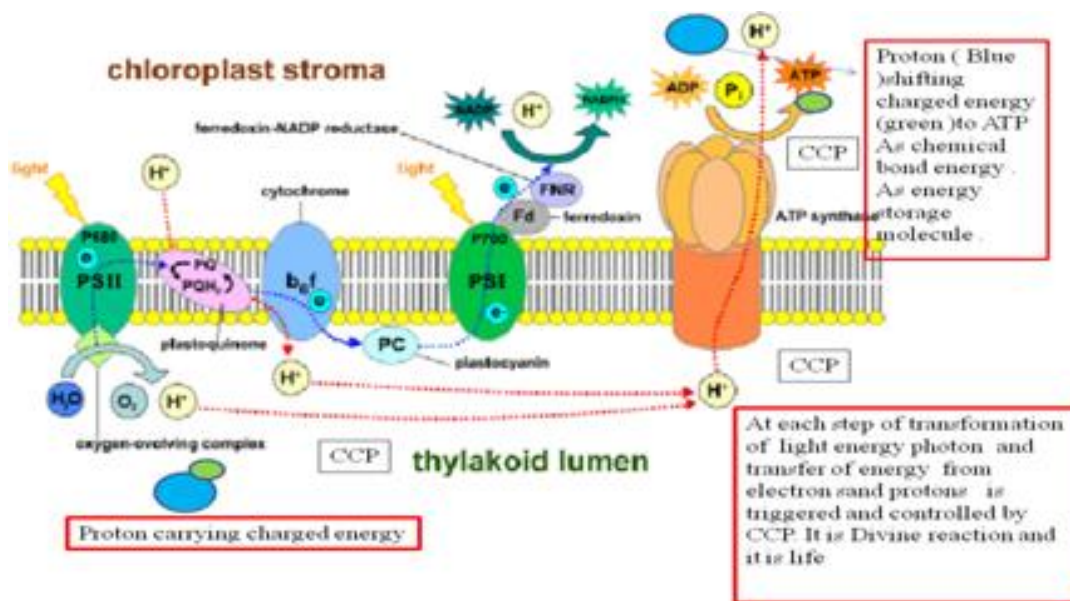


Fig. 12. Light energy from the sun is converted into chemical energy of ATP

Conclusion

Neither excited electrons carry energy through a photosynthetic system by hopping at random from one molecule to the next (Physical conduction) nor electrons take advantage of the weirdness of quantum physics travelling in the form of a coherent wave that can try out different paths simultaneously so that the electrons could then choose the best route explaining photosynthesis’s high efficiency . Rather, excited electrons carry photon energy in form of charged energy through a well destined path of photosynthetic system by the phenomenon called **divine conduction mechanics** or **life phenomenon** (Fig 11.2)where thought is triggering and controlling the path of excited electron explaining photosynthesis’s high efficiency.

The path taken by electrons and protons are different and both are triggered and controlled by CCP. Hence it is not Quantum superposition (probability of possible trajectories) rather divine working of electrons and protons involved in the photosynthesis light reaction.

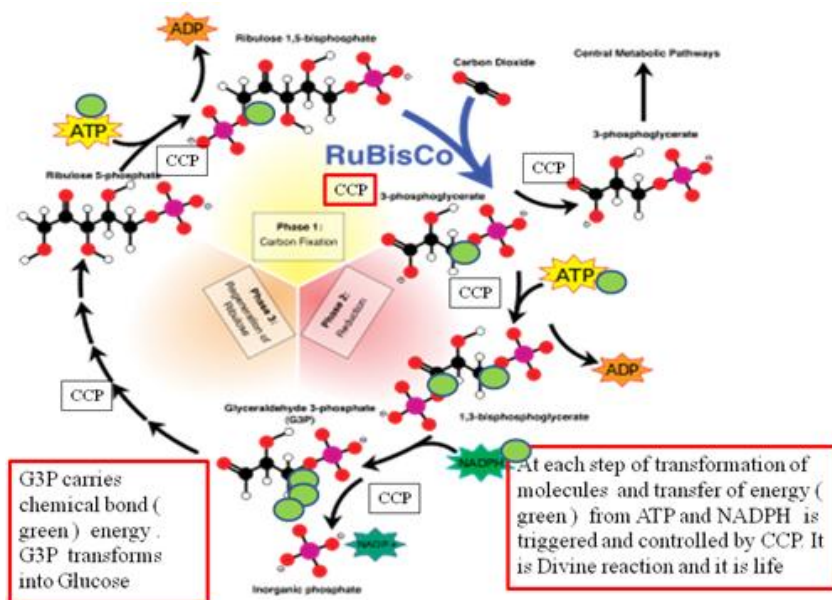


Fig.13. Light energy from the sun is converted into chemical energy by the production of glucose molecules

In Calvin Cycle, each step of cycle is controlled and triggered by CCP i.e. thought expressions triggered by higher center. Having received the messages, (Code PcPs) target units work accordingly. Enzyme Rubisco is carrying programmed thought (Code PcPs) triggered by 3rd transcription (DNA). Hence its working is different than working at other places of CCP where messages are brought by second transcription (thylakoid membrane). (Fig 13).

What is chemical bond conscious bond?

This is modified chemical bond with activated mindness of attraction between nucleus of one atom and nucleus of another atom thus making the two of more atoms into molecule. The rest properties (physical, chemical, structural, and spectral) of molecule are triggered by separate thoughts. Thus molecules would appear in nature. These modified chemical bonds are either triggered by unconditioned thought expressions or by conditioned thought expression. The entire chemistry world would be explained by this SINGLE THEORY of conscious bond.

Properties of Chemical Bonds (conscious bond)

- **Bond angle** is the angle formed between three atoms across at least two bonds.
- **Bond length** (also known as **bond distance**) is the average distance between nuclei of two bonded atoms in a molecule.
- **Bond strength** is the degree to which each atom linked to another atom contributes to the valency of this other atom. It's commonly measured between two atoms joined in a chemical bond. Bond strength is immediately linked to bond order and can be quantified by bond energy and bond dissociation energy.

Strong chemical bonds

- **Bond order** is the number of chemical bonds between a pair of atoms. For example, in diatomic nitrogen the bond order is 3, while in acetylene the bond order between the two carbon atoms is also 3, and the C-H bond order is 1. Bond order gives an indication to the stability of a bond. Bond order is also an index of bond strength and is also used extensively in valence bond theory.
- **Bond energy** is a measure of bond strength in a chemical bond; in other words, it is the heat required to break Avogadro's number of molecules into their individual atoms.
- **Bond dissociation energy** is one measure of the bond strength in a chemical bond. It is defined as the standard enthalpy change when a bond is cleaved by homolysis (the chemical bond dissociation of a neutral molecule into two free radicals) with reactants and products of the homolysis reaction at 0 K (absolute zero).
- Conscious bond OR modified chemical bond has to be hypothesized because as atomic models have limitations to do chemical bonding by sharing of electrons or by transfer of electrons or by mixed activity i.e coordinate bonding.
- Electrons are held in atom by strings of energized gravitons. Hence they could not share or transfer from atom to atom. Hence electrovalent and covalent chemical bonds could never appear in nature.
- If theory does not explain the phenomenon with MIND, it is wrong theory. Hence all theory explaining chemical bonding are wrong theories.

- When iron atoms are heated at melting point the stimulus is sent to one nucleus of one atom and thought of locking of all atoms with each other is triggered. This messages are shifted to electrons of conducting zone and from there to all nucleus of joining atoms. Having received the messages by electrons, the atoms start joining each other with a activated mindness of locking between nucleus of one atom and nucleus of other atom. Hence conscious bonding mindness appear in nature. There is exchange locking activated mindness phenomenon mediated by photons. That keeps all Fe atoms intact in one mass. The particle that carry this activated mindness is photon. Conscious bond or modified chemical bond is different than electromagnetic force of attraction. (see unified theory below)
- Photons are of many types --- Electrical energy photons, magnetic energy photons, chemical energy photons (conscious bond), sound energy photons, Light energy photons, Mechanical energy photons, Heat energy photons. Charged energy photons and all are inter-convertible. (Law of conservation of energy).

Typical bond lengths in pm and bond energies in kJ/mol. Bond lengths can be converted to Å by division by 100 (1 Å = 100 pm). Data taken from

Bond	Length (pm)	Energy (kJ/mol)
H — <u>Hydrogen</u>		
H-H	74	436
H-O	96	366
H-F	92	568
H-Cl	127	432
C — <u>Carbon</u>		
C-H	109	413
C-C	154	348
C-C=	151	
=C-C	147	
=C-C=	148	
C=C	134	614
C C	120	839
C-N	147	308
C-O	143	360
C-F	134	488
C-Cl	177	330

Conclusion

Calvin Cycle which is second part of photosynthesis is divine. It means its working is triggered and controlled by thoughts of higher center B.B.B present in thylakoid membrane. Life is higher thought expressions of B.B.Bs and it is Divine mechanics rather than Quantum mechanics. The path taken by electrons and protons are different and both are triggered and controlled by CCP. Hence it is not Quantum superposition rather divine working of electrons and protons involved in the photosynthesis light reaction. There are many thoughts involved in photosynthesis but to understand the phenomenon, I have depicted few effects which are triggered and controlled by Higher center present in membrane of thylakoid. In this phenomenon there is trapping of light photon and transforming it in charge energy of electron. Further this charge energy is shifted to charge energy of charged electron (4e-) and charged proton (4H+). Since formation of NADPH and ATP are at different site. Hence the path of electron carrying charge energy is different and path of proton carrying charge energy is through ATP synthase. During electron transfer energy, some protons (8H+) come from outer stroma. These 12 H+ go through ATP synthase and transfer charge energy to ATP. Out of 12 H+ (protons) 8 H+ (protons) enter in next cycle. Rest 4H+ form 4NADPH with the help of 4e- in stroma outside the thylakoid membrane. During this proton cycle 2ATPs are formed. In electron transfer cycle, charged electrons (4e-) move from photo system 2 to cytochrome. During this transfer they pump 8H+ inside. Further they go to Photo system 1 where again light is used to power them. Thus they gain more charge energy. They deliver this energy to NADP to form NADPH. So 4e- are used to make 4NADPH. The charge energy is transferred as bond energy of NADPH.

Neither excited electrons carry energy through a photosynthetic system by hopping at random from one molecule to the next (Physical conduction) nor electrons take advantage of the weirdness of quantum physics traveling in the form of a coherent wave that can try out different paths simultaneously so that the electrons could then choose the best route explaining photosynthesis's high efficiency. Rather, excited electrons carry photon energy in form of charged energy through a well destined path of photosynthetic system by the phenomenon called divine conduction mechanics or life phenomenon (Fig 11.2) where thought is triggering and controlling the path of excited electron explaining photosynthesis's high efficiency.

The entire reactions both light reaction as well as Calvin Cycle are triggered and controlled by different thoughts step by step. The trajectories taken by electrons and protons are not quantum trajectory

(QM –superposition (superposition of possible **trajectory**) rather it is destined trajectory i.e. trajectory destined by fixed thought. That thought is triggered by higher centre present in chloroplast or thylakoid membrane. Hence it is divine and that is life. There is difference in quantum world and life world. The behavior of microparticle in quantum world is different as it is triggered by

lower thoughts of B.B.B. But in life world the behavior of microparticles are triggered by higher thought expressions of B.B.B. Hence neither of these worlds underpins each other.

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Our universe is deterministic order of universe and each effect is destined i.e. effects are triggered by thoughts and each thought is fed thought and feeding was done in pre creation era by Highest center of the universe . Hence all sciences are made by self knowledge of Almighty Basic building block. Hence Albert Einstein's famous story is true i.e. " God (Almighty B.B.B) does not play dice". In spiritualism it known as , "I am the science of Self knowledge".

ATOMIC GENETICS AND ORIGIN OF THE UNIVERSE

DR. VIJAY MOHAN DAS

The Creator (Portrait of Yang BSB working as highest center of the universe) and Creation of the universe by continuous creation theory - Hoyle and Narlikar (Hoyle)

This book is update of Quran, Gita and Bible and all spiritual books as how God created the universe in scientific language (step by step) is not written in those books, and identification of God as regard His picture identity (mind and matter) is absent there. The picture identity of Almighty God, the Creator and destroyer of Universe (His Avatar form) is also absent in those books. This book Unites religions as regard their true spiritualism. The true spiritualism (immortal attributes of God) of all religions (SAR) that includes different thoughts expressions also as thoughts, carrying different informations are immortal. Prayer (STI phenomenon) is an eternal phenomenon and it is property of mortal (with God particles). The highest consciousness as regard worldliness and ECLL worldliness (as we sleep of "I" and "I" is coming and internal related) THE ego is particular unity of opposite (made up of Mind and Matter, matter having property of consciousness and omnipotent to eternal, absolute, infinite "I" is Unimpaired, that constitute ONE "I". This also includes all worlds of all forms of "I" both visible and invisible. This book primary guidelines to students of physics and life sciences as their undergraduate and postgraduate courses and also in research program (as all 10 volumes have been published in international print and online journals). This book is helpful to those who are atheists, by virtue of their ignorance their lacking attitudes. This book will enlighten them in scientific way to the tune that they too want believing power of Almighty BSB who created this universe.

Last but not the least in "Screen of prayer" which is to be taught in school and colleges by all universities all over the world so that students of all religions should know about Almighty God, the creator and destroyer of the universe, the Yang working as Highest center of the universe, the first god "I" of formative/evolving phase and His Avatar form. Without these guidelines, their understanding as regard Science, God, Universe and Prayer would remain unclear. The entire research qualifies the word, GEDIM-SCHUM, SUNDGIMM or ETSBIMT or etc.

Dr. Vijay Mohan Das
subordinate to Almighty
Jewelry of God

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