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## Atomic Genetics and Origin of the Universe- Volume-4

( Part -2)

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### Abstract

In participatory science the investigating tool or measuring instrument that probes in the nature is consciousness or our common sense . Without this tool one cannot be participator in the event . Gravity is the force that could only be studied by Participatory science . If three other natural forces are mediated by three different particles , then the gravity force must be mediated by fourth particle called gravitons. If no experiment could detect these particles , it does not mean they are not there.. Having known about graviton about its structure that it is made up of two B.B.Bs , ( Yang + Yin ) , we shift our investigation to know its function in the universe. It is to be noted that it is the mind of M2 that decides orbital path of the M2 and how much energy is to be taken from energized gravitons to give the energy effect (whether it is acceleration due to gravity effect (g) or orbital velocity effect , centripetal effect or centrifugal effect i.e. inter orbital shift , weight of object ( G.M. effect ) and Hubble law effect,) is also decided by M2. Hence M2 decides how much energized gravitons is to be locked to give desired effect. There has been many energized gravitons strings coming simultaneously in contact with M2 but how much energized gravitons is to be locked to interacting surfaces ( Yins of M2) is decided by M2 ( higher center of M2 i.e. yang B.B.B for fermions and yin B.B.B for bosons) . Mind of M1 only triggers attraction effect (direction is decided by yang B.B.B of energized gravitons ) i.e. fall effect ,bending effect ,gravitational red shift effect and retardation in velocity effect. If there is inter orbital shift effect , it is also decided by M1. But magnitude of these effects (fall effect , bending effect , gravitational red shift effect and retardation in velocity effect ) is decided my M2. These thoughts are fed thoughts and feeding was done in pre creation era by Highest center of the universe. Setting of thought expression is fixed (different ) in fixed( different ) frame of reference. That is what Quantum Gravity means.

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**Key words:** Atomic clock , ionization potential , Hydrogen atomic model , inter orbital shift effect ,merging galaxies , Standard Model and energized gravitons and life effects

1.Introduction - It is Time mind ness that triggers the destined thought . Hence our universe is Deterministic Universe and it is atomic genes that control this determinism. The details shall be studied in atomic genetics . There is one law in gravitation interaction i.e. interactions are destined and they are different in different frame of reference and the interactions are triggered by Mind of interacting bodies and the effect is also decided by mind of interacting bodies and there is expenditure of energy in gravity work done and that is supplied by energized gravitons . With the research of energized gravitons (g) , gravitons ( primary fermions ) , primary bosons , Basic Building Blocks ( matter B.B.B(Yang ) and Energy B.B.B.(Yin) ) and Mind ( CCP, Code PCPs and CPs ) particles and Tachyons ( Yang + Yins ) , the Standard Model chart is now modified and completed.

## **2. Structure**

### ***2.1 Energised gravitons and atomic clock***

The third prediction of Einstein general theory of relativity was that all time processes will be slower down on a large mass than on small mass. In the other words, time will move more slowly on a relatively larger planet than on a smaller planet. Thus the general theory predicts that there will be lack of synchronism clocks caused by gravitational fields. An atomic clock is a vibrating atom , the nucleus of which behaves like a liquid drop . If the nucleus is excited it vibrates like a drop of water and radiates gamma rays . An excited nucleus of a radioactive element with a long life is almost a perfect pendulum and its time period is not affected by external influences ( it should be modified ) . A nuclear pendulum ticks with absolute regularity an enormous number of time per second . Slowing of atomic clock in high gravity field is due to interaction of atomic nucleus and energized gravitons of high density area. According to participatory science ( figure-1 ,figure -2 and figure 3) , half life is triggered by thought of half life of the radioactive element and thus this decides the decay of radioactive element in form of atomic clock on earth. When this radioactive element is placed in large mass , it interacts with high density energized gravitons in form of high energy input that causes increase in weight . This is a new stimulus and this new stimulus triggers new thought of delayed half life and thus decay of radioactive element is delayed in form of slowing of atomic clock on that massive body. Thus time interval between two gamma photons radiation is increased . Thus interval between two ticks is increased . Thus clock is slowed down. It is fed thought and feeding was done in pre creation era by Highest center of the universe.

### ***2.2 Mossbauer Effect***

The same phenomenon is seen in Mossbauer Effect where iron isotopes of mass 57 which emits roughly 12 waves per second, were mounted on aluminum disc 6 inches in diameter. A narrow beam of gamma rays emitted from this isotopes is directed towards an absorber made up of the same isotopes of iron , on the circumference of the turn- table . The nucleus of the emitter and the absorber formed , so to say , two pendulum. Beyond the circumference was a stationary photon counter to record those photons that passes through the absorber without producing resonance. Now the absorber is a kind of moving clock. Each photon that is

absorbed is one tick of the “clock” in unison and each photon that gets through the absorber gives a tick that the moving clock has missed . Mossbauer found that when the disc was at rest perfect resonance would occur . After anchoring the emitter and the absorber to prevent their recoiling on the emission and absorption of photons , he rotated the disc at 50 to 500 revolutions per second for 30 minutes . he found that the frequency of the photons emitted by the central clock is different from those of the photons of the “absorber clock ”on the rim. The inertial forces were the new stimulus to radioactive clocks placed at center and at the rim. The clock at the center were subjected to different inertial force than the clock at the rim. So there were two different stimulus to trigger different thoughts of different half lives or decay of two different atomic clocks . Thus synchronization in their working is hampered and thus lack of synchronism was there. We ,therefore, conclude that the frequency of vibration or time period or decay of radioactive atom is changed due to both inertial forces (a) or due to gravity (g). Both the events were triggered by change of thoughts of half lives of atomic clocks. Unless there is change in thoughts of that event , one cannot see the changed effects. This change is conditioned in both the events . ( Figure-1 , Figure -2 and figure 3) . It does not mean that principle of equivalence is right. There is difference in gravitational acceleration ( g ) and acceleration of objects other than gravity ( a ) . Einstein has wrongly made principle of equivalence i.e. . There is no way for an observer in a closed laboratory to distinguish between the effects produced by a gravitational field and those produced by an acceleration of the laboratory .

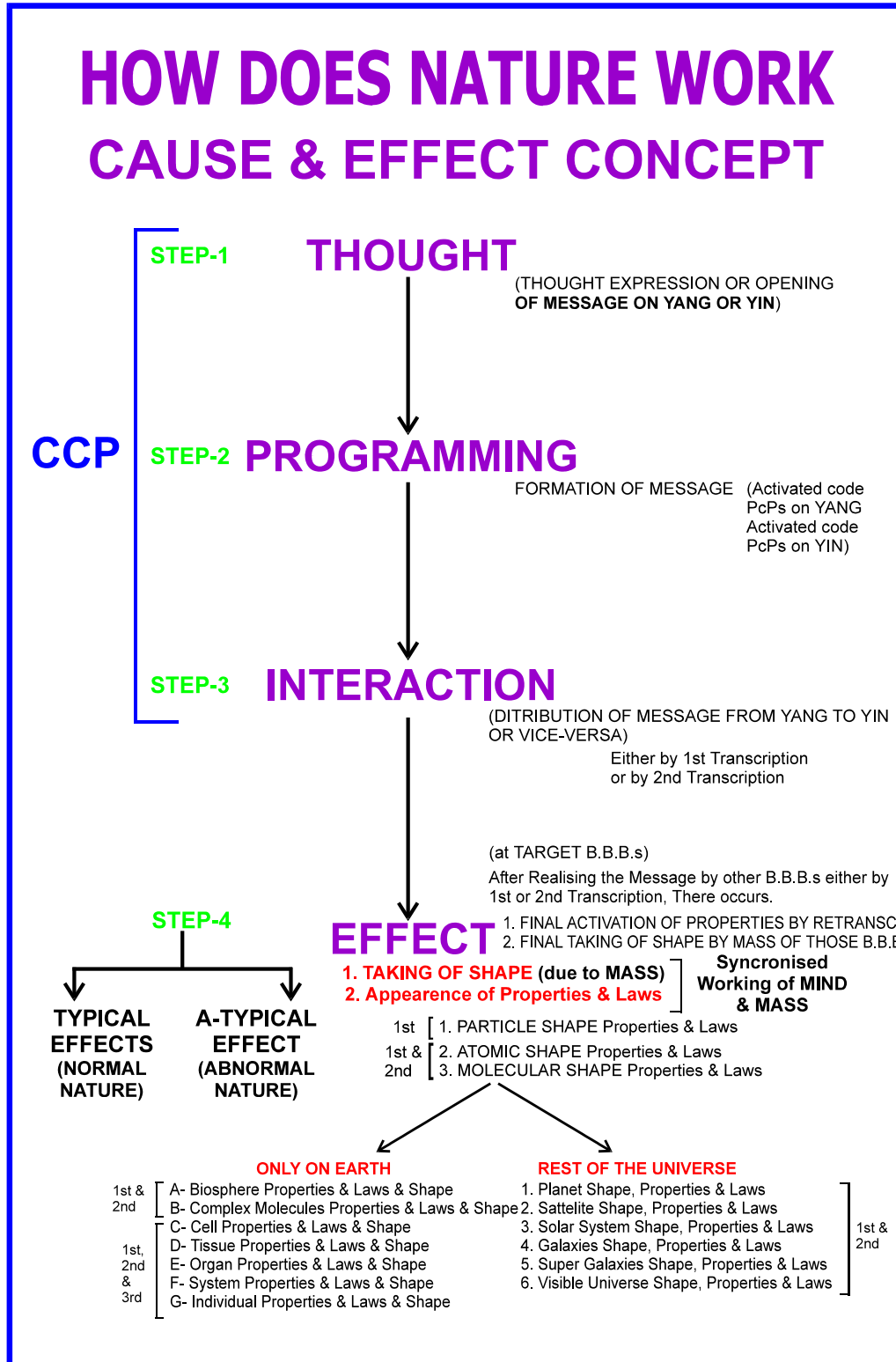
### **2.3 Energized Gravitons and Hydrogen atomic structure and spectra.**

Spectrum of the hydrogen atom shows that atom is stable . This stability is due to electron is being held by gravity ( energized gravitons ) rather than electromagnetic force There is no shielding effect in gravity while electromagnetic force which is being mediated by photons is a exchange phenomenon or shows shielding effect . Hence electromagnetic force could not hold electrons in orbit in higher atoms of periodic table . When atom of hydrogen is excited , it emits tertiary bosons ( polychromatic light ) and these tertiary bosons not of continuous spectra ( rather WL of emissary monochromatic photons ) when passed through prism , make emissary spectrum (  $H\alpha$ ,  $H\beta$  ,  $H\gamma$ ,  $H\delta$  ) with definitive and specific spectral lines of hydrogen . Spectrum shows emission lines of excited atom of hydrogen and absorption lines (  $H\alpha$ ,  $H\beta$  ,  $H\gamma$ ,  $H\delta$  ) in place of emission lines when tertiary bosons ( WL) pass through colder gaseous atmosphere of hydrogen . The Fraunhofer C, F, G', and h lines correspond to the alpha, beta, gamma and delta lines of the Balmer series of emission lines of the hydrogen atom. ( figure 4)

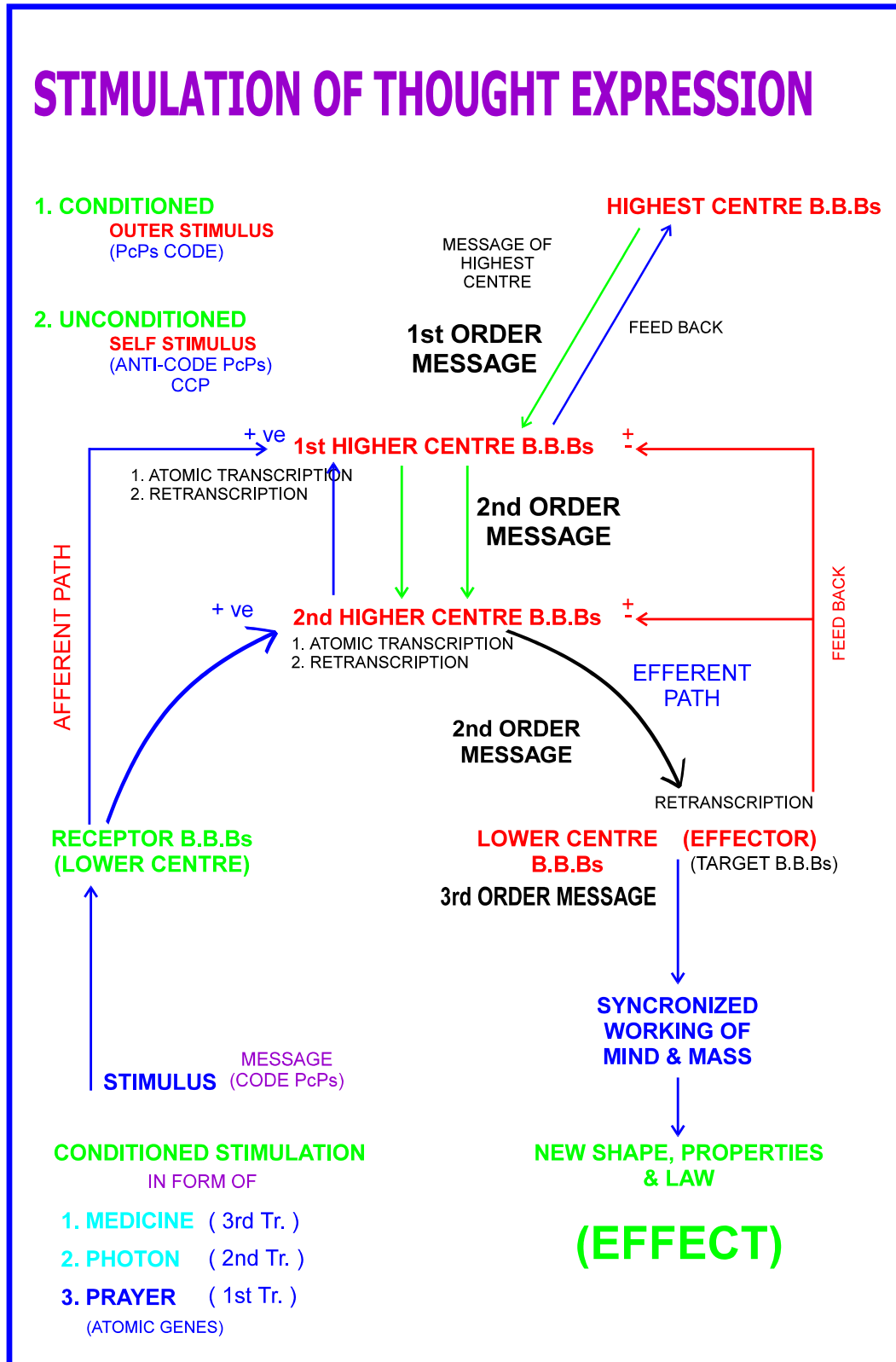
Q. How does spectrum i.e. spectral lines of hydrogen atom form ?

According to participatory science, Hydrogen atom has got following properties – 1.structural properties, 2.physical properties 3. chemical properties 4. spectral properties. All these properties are triggered by different thoughts or atomic transcriptions. With the result there is formation of messages of code PCPs of different properties that move from higher center in the nucleus of hydrogen to electron of hydrogen atom. Having received the messages by second transcription , the electron of hydrogen atom gives its above mentioned properties with the result we observe above mentioned effects and we say that this atom is hydrogen atom. The same is true for other elements of the periodic table. When hydrogen atom is excited its electron emits not a

continuous spectrum or white light rather it emits emissary monochromatic photons. When passed through prism gives emissary spectrum (  $H\alpha$ ,  $H\beta$ ,  $H\gamma$ ,  $H\delta$  ) of hydrogen atom. Emission Lines (  $H\alpha$ ,  $H\beta$ ,  $H\gamma$ ,  $H\delta$  ) and absorption lines (  $H\alpha$ ,  $H\beta$ ,  $H\gamma$ ,  $H\delta$  ) of hydrogen atom with reference to continuous spectrum . ( figure –4 and figure 5)

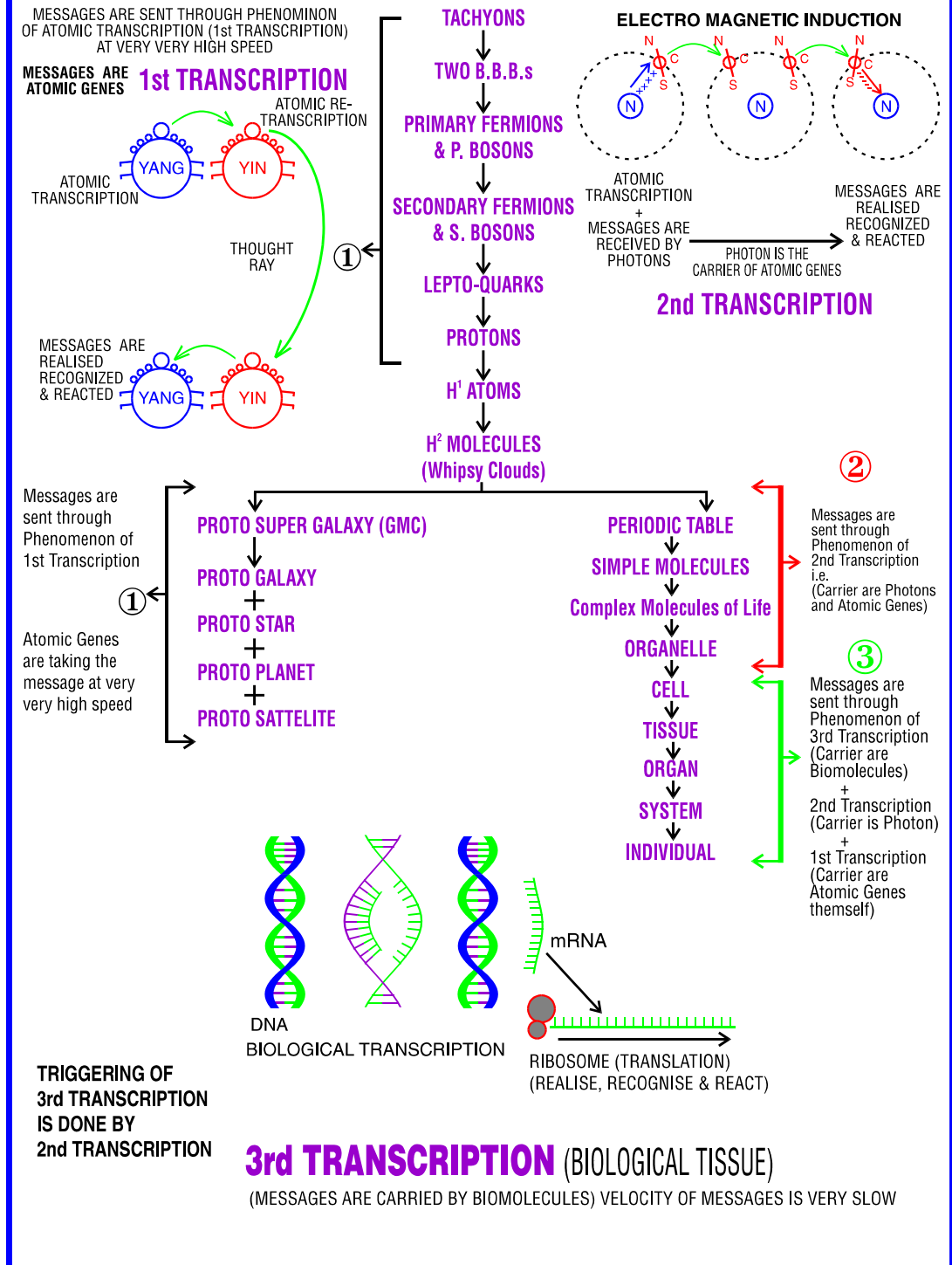


( figure-1 How does nature work [8] )



( figure -2: Stimulation of thought expressions [8] )

# MESSAGE SYSTEMS OF THE UNIVERSE



( figure 3 – message system of the universe [8] )

## Continuous Spectrum



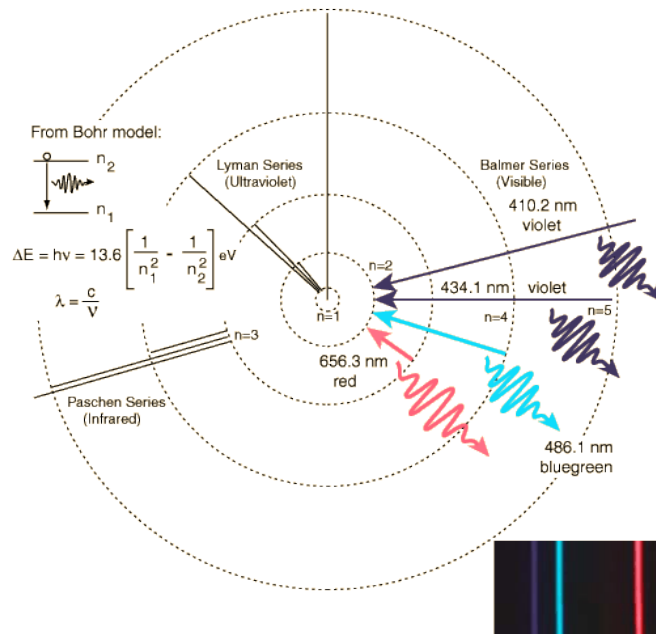
## Emission Lines



## Absorption Lines



( figure –4 spectrum of hydrogen with respect to continuous spectrum )

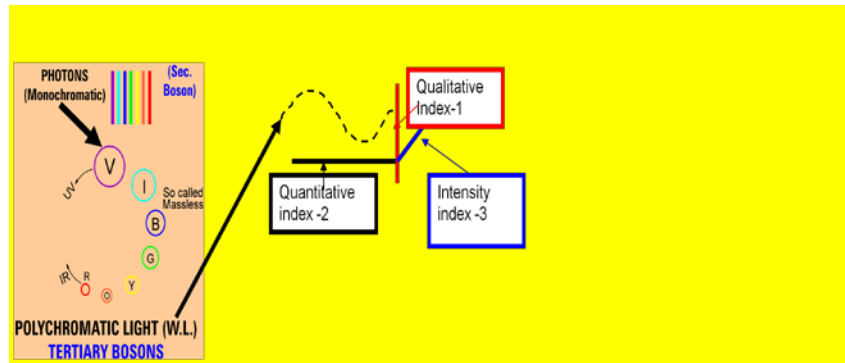


( figure –5– blamer series of hydrogen atom )

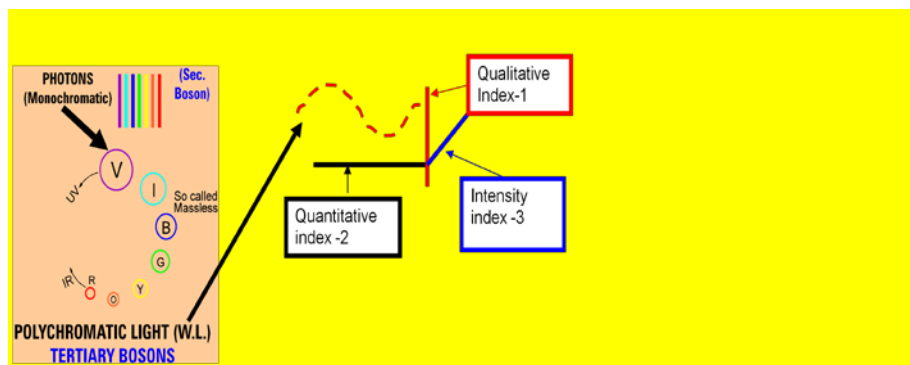
The Fraunhofer C, F, G', and h lines correspond to the alpha, beta, gamma and delta lines of the Balmer series (figure 5) of emission lines of the hydrogen atom.

The monochromatic photons are called emissary photons that form emission lines (  $H\alpha$ ,  $H\beta$ ,  $H\gamma$ ,  $H\delta$  ) of hydrogen atoms (Balmer series) which are specific to hydrogen atom. And when this WL pass (continuous spectrum) through colder gaseous atmosphere, then there is drop of monochromatic photons (  $H\alpha$ ,  $H\beta$ ,  $H\gamma$ ,  $H\delta$  ) in polychromatic light or they get absorbed by that hydrogen gas, with the result we observe absorption lines or Fraunhofer lines (  $H\alpha$ ,  $H\beta$ ,  $H\gamma$ ,  $H\delta$  ) of that hydrogen atom which are specific to it. Each WL forms qualitative index (first) of the spectrum. It never changes (figure 6). The WLPs per unit length forms the

quantitative index ( second) of the spectrum and it is normal on earth. But in gravitational red shift effect or Doppler's red shift , the WL per unit length gets reduced , thus quantitative index is reduced or lowered and thus spectrum of hydrogen is shifted towards red end . There is rearrangement ( merging and transmutation ) of all monochromatic photons towards red end by atomic transcription when they pass through prism. Thus absorption lines are also shifted towards red end . ( figure 7)



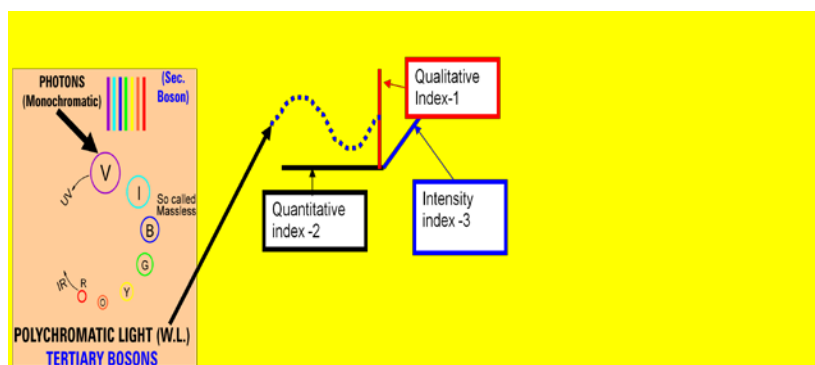
( figure 6 -Reference spectrum formation – see dotted line – number of dots per unit length - one dot is one WLP – on earth )



( figure 7- Red shift spectrum formation – dotted line – number of dots per unit length is reduced )

While in Doppler's blue shift , number of WL per unit length get increased with the result quantitative index is enhanced and we get increased WL per unit length and finally we get spectrum of hydrogen shifted towards blue end. There is rearrangement of all monochromatic photons towards blue end by atomic transcription when they pass through prism . Thus absorption lines are also shifted towards blue end ( figure 8) .





( figure 8 – blue shift spectrum formation – number of dots per unit length is increased )

The third index is intensity index ( third) and when this index is increased, intensity of the spectrum is enhanced. It is controlled by slit. ( figure 4). Electron of the hydrogen atom is being held by a string of energized gravitons emitted from central single proton. It is this string of energized gravitons that holds single electron. Thus making it to revolve around single proton. It is just like person rotating ball around him with a single string . In periodic table as number of electrons increases in the atom , number of protons also increases in same number. Hence number of strings of energized gravitons also increases to hold those electrons in orbits. Graph of ionization potential will tell us the orbits in which these electrons are revolving. I.P. is the energy in ev that is being used to remove outer electrons against force of gravity as well as force of electromagnetism produced by positively charged nucleus. The electron in hydrogen atom revolve in circular orbit not in elliptical orbit and this energy level is called ground state and I.P. (IONIZATION POTENTIAL)  $-13.59\text{ev}$  ( $n=1$ ) is required to remove electron from this energy level. When hydrogen atom is excited , the circular orbit gets enlarged ( inter orbital shift comes into play ) and electron is then shifted to other energy levels called excited energy levels and I.P. to remove electron from this state is  $-3.4\text{ev}$  ( $n=2$ ),  $-1.511\text{ev}$  ( $n=3$ ),  $-0.850\text{ev}$  ( $n=4$ ) ,  $-0.544\text{ev}$  ( $n=5$ ) respectively. During excited state , the electron of hydrogen atom also emits radiations in form of WL. These WL ( tertiary photons) when pass through spectrum shows series of spectral lines ( emissary lines or qualitative index) that are specific of hydrogen atom. The spectral properties as well as emission of WL is triggered by thoughts . ( conditioned stimulation of CCP). So , it is wrong to say that when electron jumps from excited energy level to lower energy levels , it emits radiations and thus spectral series of hydrogen atom ( Layman, Balmer, Pachen, Brackett, Pfund series ) are formed. The series are formed by single atom rather than groups of atoms.( figure 5)

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

New assumptions of structure of hydrogen atom.

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.

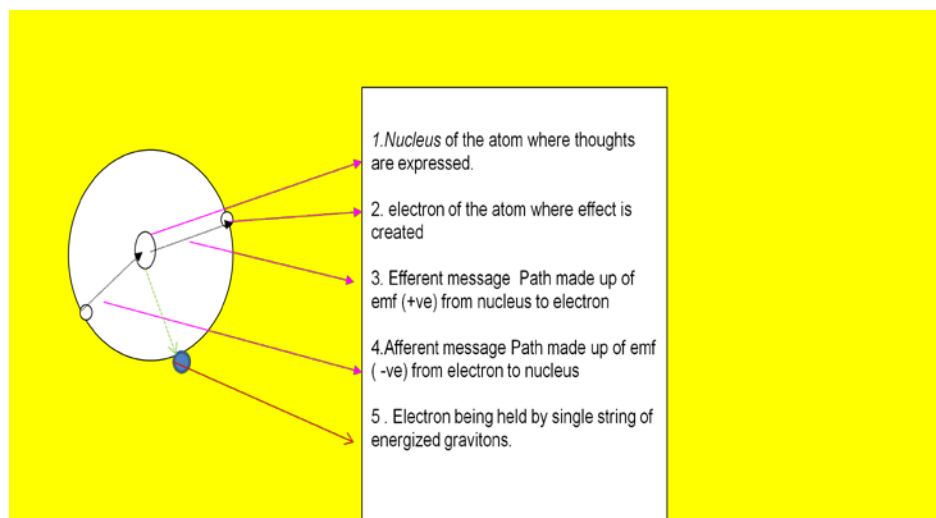
3. When excitation is over, the electron once again comes back to ground state energy level. All above mentioned events are triggered by different thoughts or atomic transcriptions from the nucleus or proton in case of hydrogen atom.

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. ( Fig-9)

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. ( figure 10)

Working of hydrogen atom ( figure 9)



( figure -9- working of hydrogen atom )

Ionization potential

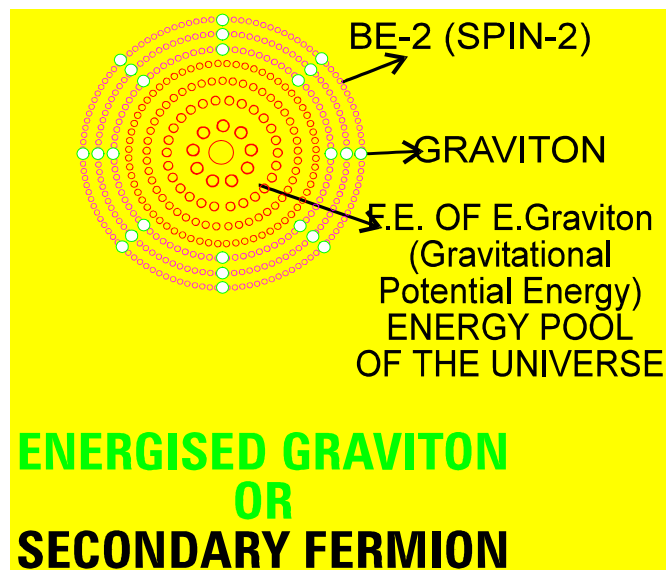
**CHEMIX - PERIODIC TABLE**

Graphics Close

Atomic number  
 Name  
 Relative atomic mass u  
 Melting point °C  
 Boiling point °C  
 Density g/cm<sup>3</sup>  
 Covalent radius \*10<sup>-10</sup> m  
 Atomic volume cm<sup>3</sup>/mol  
 First ionization potential V  
 Specific heat capacity Jg<sup>-1</sup>K<sup>-1</sup>  
 Electrical conductivity \*10<sup>6</sup> Ohm<sup>-1</sup>cm<sup>-1</sup>  
 Thermal conductivity Wcm<sup>-1</sup>K<sup>-1</sup>  
 Electronegativity Pauling  
 Heat of fusion kJ/mol  
 Heat of vaporization kJ/mol  
 Acid-base properties  
 Number of stable isotopes  
 Electron configuration  
 Oxidation states  
 Phase 20 °C  
 Crystal structure 18/MIIIA

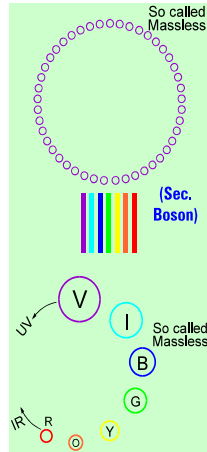
Group	1/IA	2/IIA	3/IIIB	4/IVB	5/VB	6/VI	7/VII	8/VIII	9/VIII	10/VIII	11/IB	12/IIIB	13/IIIA	14/IVA	15/VA	16/VI	17/VIIA	18/VIIIA		
13.59	H	He											B	C	N	O	F	Ne		
5.139	Li	Be	5.139	7.646									5.986	8.151	10.48	10.36	12.96	15.75		
4.341	Na	Mg	4.341	6.113	6.540	6.820	6.740	6.766	7.435	7.870	7.860	7.635	7.726	9.394	5.999	7.899	9.810	9.752	11.81	13.99
4.177	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr		
3.894	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe		
5.279	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn		
5.279	Fr	Ra	Ac																	
				5.540	5.460	5.530	5.554	5.640	5.670	6.150	5.860	5.940	6.018	6.101	6.184	6.254	5.430			
				Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu			
				6.080	5.890	6.050	6.190	6.060	5.993	6.020	6.230	6.300	6.420	6.500	6.580	6.650				
				Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr			

( figure 10- This observation will help us to investigate electronic configuration of atoms and holding of electrons in orbit by energized gravitons strings).



( figure 11- structure of energized graviton)

## PHOTONS (Monochromatic)



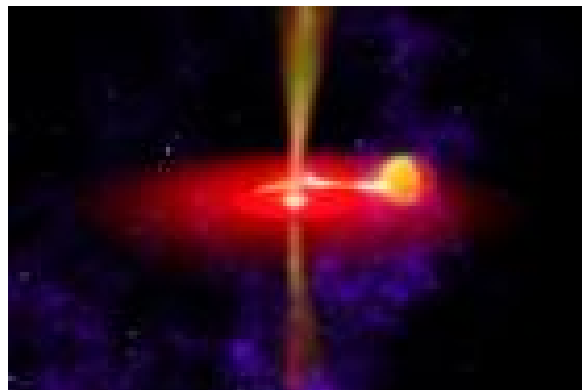
## POLYCHROMATIC LIGHT (W.L.) TERTIARY BOSONS

(figure – 12- structure of polychromatic light and monochromatic photon or secondary boson )

2.5 - Energized Gravitons and dying stars. Figure –13,figure 14, and figure 15 ) ( Theory of inter orbital shift )



( figure 13- Dying Binary stars one is Red Giant and other one is neutron star )

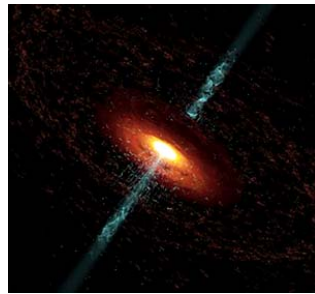


( figure 14- Dying Binary stars one is Red Giant and other one is neutron star )

Fate of the star is decided by fed thoughts ( unconditioned thought expression by Time mindness ) which gets triggered as the end stage of star is reached. These fed thoughts were fed in precreation era by highest center of

the universe. .1.Thought of Red Giant leads to formation of red giant and finally white dwarf. .2.Thought of neutron star leads to formation neutrons star.. It never depends upon the different masses of suns as predicted by Prof. Chandrasekhar. Though the different masses ( critical mass 1.44 times the sun's mass) of suns could decide the type of thought expressions ( conditioned stimulation of atomic transcriptions) .When binary stars come to end stage , its one star takes the shape of Red Giant and the another star takes the shape of neutron star ( figure 13) or so called highly dense black body having very high gravitational effect such that the escape velocity is more than speed of light. Thus making it a highly dense black body.. Having reached this critical stages, the hot material of red giant stars falling into highly dense black body in circular manner such that it forms a circular disc all around highly dense black body. During fall, as the matter is made up of charged particles , there develops a electrical field right angle to the falling matter . The effect of electrical field is very high and as it reaches the limits of event horizon , the falling material ejected out right angle to the electrical fields. During fall , the velocity of the matter increases and it reaches at the speed of light ( body falling under gravity gets accelerated due to g) and it obeys so called Flemings right and left hand rules simultaneously that is why positive charged material is ejected in one direction and the negatively charged is ejected out in opposite direction with speed of light . The hot material of Red Giant never falls in highly dense black body ( it is not Black hole ) .

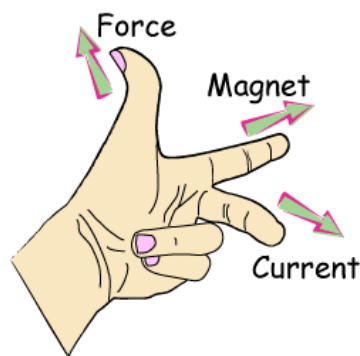
#### Theory of inter orbital shift



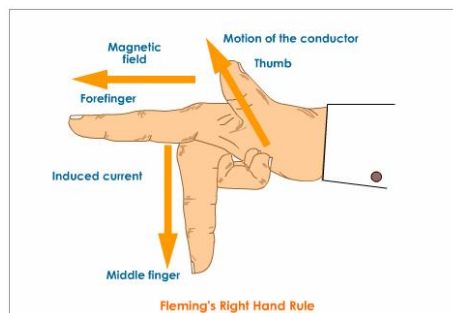
( figure 15- Dying Binary stars one is Red Giant and other one is neutron star )

This phenomenon is seen in dying binary stars where one is red giant and other one is massive black body orbiting in each other gravity field ( figure 13, figure 14 and figure 15) . The phenomenon of inter orbital shift triggers. With the result thought of centripetal force enhancement is expressed and centripetal force gets enhanced . With the result matter of red giant changes its orbit and the energy supplied in this phenomenon is from energized gravitons of black massive body . No sooner it reaches event horizon , the thought of centrifugal force enhancement gets triggered. With the result centrifugal force gets enhanced and it throws the orbiting matter in inter settler space with velocity of light in both directions. The energy again is supplied by energized gravitons . Hence gravity under these circumstances work as both ways . ( It is called Quantum gravity ) . This is the phenomenon of inter orbital shift of red giant star. The matter ( charged particles) of red giant orbiting in spiral way ( changing orbit ) , before it falls in black massive body , it gets ejected out with velocity of light by centrifugal force. All effects are triggered by separate thoughts . All are unconditioned thoughts . Red , yellow and blue means temperature of orbiting and ejecting matter. There are many thoughts that trigger this

phenomenon step by step. The entire phenomenon is under inter-orbital shift theory .Falling matter is coming from one orbit or rather changing orbit and it is going to other orbit rather out of orbit . It is the massive black body that triggers this phenomenon of inter orbital shift. It send messages to red giant via first transcription ( figure 3) . Higher center of red giant having received the message , it enhances centripetal force and with result matter start changing its orbit. Having reached the event horizon , Red giant again receive new message from black massive body via first transcription . This new message of inter orbital shift triggers enhancement of centrifugal force and suppression of centripetal force . With the result the matter is shifted to other outer orbits or rather in interstellar space by centrifugal force . The ejecting matter is made up of charged particles . Few particles to be ejected out in one direction and other to be ejected out in other direction . This direction is decided by the thought of charged particles . If +ve chared charged particles decide to move in one direction then -ve charged particles would decide to be ejected out in other direction. It is just like Fleming’s left ( figure 16) and Fleming right hand rule ( figure 17) . These rules are made by thoughts. Orbiting matter and electrical field generation are perpendicular to each other , then the ejecting matter would be perpendicular to electrical field . For +ve charged particles Fleming's left hand rule and for -ve charged particles it is feming’s right hand rule as shown in Figure below.

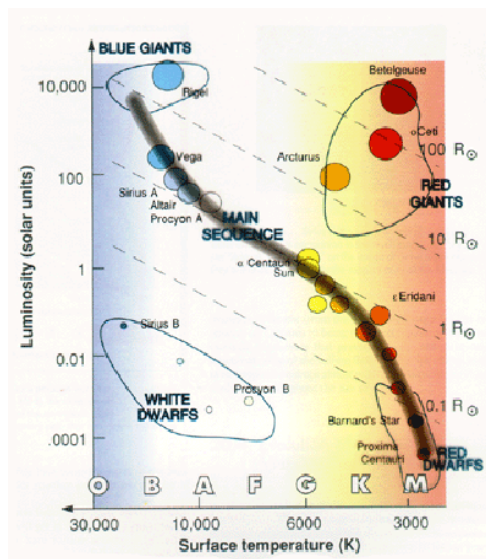
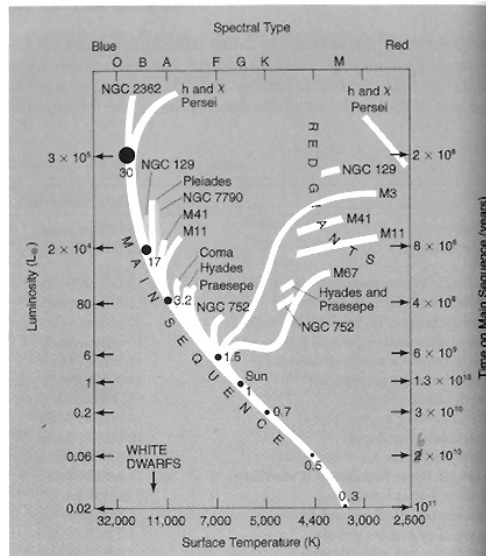


( figure 16– Fleming’s left hand rule)



( figure 17– Fleming’s right hand rule)

All effects are triggered by separate thoughts . All are unconditioned thoughts . Red , yellow and blue means temperature of orbiting and ejecting matter . There is one more activity going on simultaneously and that is reverse H-R activity ( figure 18) .



(Figure 18 ,H-R Diagram )

Both star classification and evolution can be summarized in a graph like chart that consists of a plot of luminosity (vertical axis) versus star surface temperature which is expressed also by (correlated with) the star's visual color (note also the Spectral Type designations at the top). This is known as the Hertzsprung-Russell (H-R) Diagram. Temperature ranges (in °K) are: O class = greater than 30000; B = 11000 - 30000; A = 7500 - 11000; F = 6000 - 7500; G = 5000 - 6000; K = 3500 - 5000; M = less than 2500. Colorwise, the first three are all "blue-white" stars, F is bluish to white; G is white to yellow; K is yellow orange; and M is red.

Reverse H-R Activity ( figure 15) . The dying star while changing its orbit, it changes its color. It does mean that the temperature of the falling matter is increasing with reverse H-R activity i.e. it also starts emitting rays starting from red giant to blue star. Hence reverse evolution is also taking place not in star form but in dying stages of star. The energy supplied ( for temperature rise ) for reverse H-R activity comes from energized gravitons . But changing radiations ( from red to blue i.e from infra red to ultra violet or spectral type ) are triggered by changing thoughts of reverse evolution. In star evolution , color change means energy supply is being reducing ( from blue to red) and also simultaneously radiations maxima are shifting from ultra violet to infrared. ( spectral type ). While in reverse H-R activity of dying star , the whole process gets reversed i.e. energy supply gets enhanced and reverse thought got expressed to get reverse H-R activity i.e. radiation maxima shifts from red to blue type.

**2.6 Energized gravitons** and inter orbital shift of electron , comet ( figure 19 )and asteroids.. To understand inter orbital shift we have to understand three things -one is how does nature work and unconditioned thought expressions of basic building blocks and message system of the universe ( Figure – 1, Figure -2 and figure 3) and finally gravity phenomenon. Objects ( electrons , comets, asteroids) are set in orbit by energized gravitons interacting with them. Centripetal force that pulls them towards center, or centrifugal force that pushes them apart from center are being maintained in balance to keep objects in orbit by CCP of the objects (M2) that canalizes the input energy supplied by energized gravitons (M1). For electrons to shift from outer to inner , it is centripetal force that pulls it to inner orbit gets enhanced and if electron moves from inner to outer orbit , it is centrifugal force that pushes it to outer orbit gets enhanced . While going from outer to inner orbit , the energy is consumed from energized gravitons or while going from inner to outer orbit , the energy is supplied from again by energized gravitons. This all had happened while atoms were forming by unconditioned working of thought expressions. And during transmutation phenomenon of atoms i.e. during nuclear fission and nuclear fusion. So it is wrong to say that when electron jumps from outer to inner orbit it releases energy and when it moves from inner to outer orbit it takes energy in form of  $h\nu$  . ( assumptions of Niels Bohr atomic model ) .The balance of centripetal and centrifugal forces is controlled by nucleus of the atom by thought . Unless thought is expressed by nucleus of atom, electrons cannot shift from the well defined stationary orbit. The message is sent through second transcription ( +ve efferent path) from nucleus of atom to electron concerned that would be shifted from orbit. Same is true for comets (Comets have a wide range of orbital periods, ranging from a few years to hundreds of thousands of years. Short-period comets originate in the Kuiper belt, or its associated scattered disc,<sup>[1]</sup> which lie beyond the orbit of Neptune. Longer-period comets are thought to originate in the Oort cloud, a hypothesized spherical cloud of icy bodies in the outer Solar System ) and asteroids ( Many asteroids orbit the Sun. Most are located in an area between the orbits of Mars and Jupiter known as the asteroid belt ) while rotating around sun ,they leave their set orbit only when sun triggers the thought of change of orbit . With the result centripetal force generating in comet or asteroid gets enhanced. Hence comet and asteroid leave their home and they start journey towards sun under gravitational field in a new orbit where they could be seen rotating . This journey is triggered by TIME mindness as time for journey for different comets and asteroid are different. As all are fed thoughts and feeding was done by highest center of the universe during precreation era. The energy supplied during journey is from energized gravitons interacting comets and asteroids.

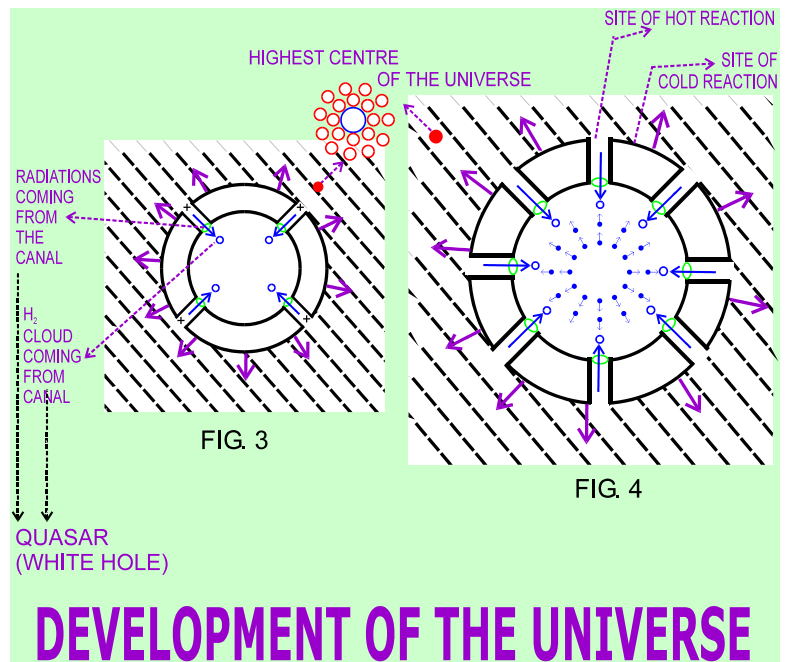


Sun is the head of solar system family. It is by its order the comets and asteroids get into shifted to different orbits. The message is sent by First transcription to CCP ( higher center ) of comet or asteroid that would be taken into consideration to make journey round sun.



( figure 19 , comet changing its orbit )

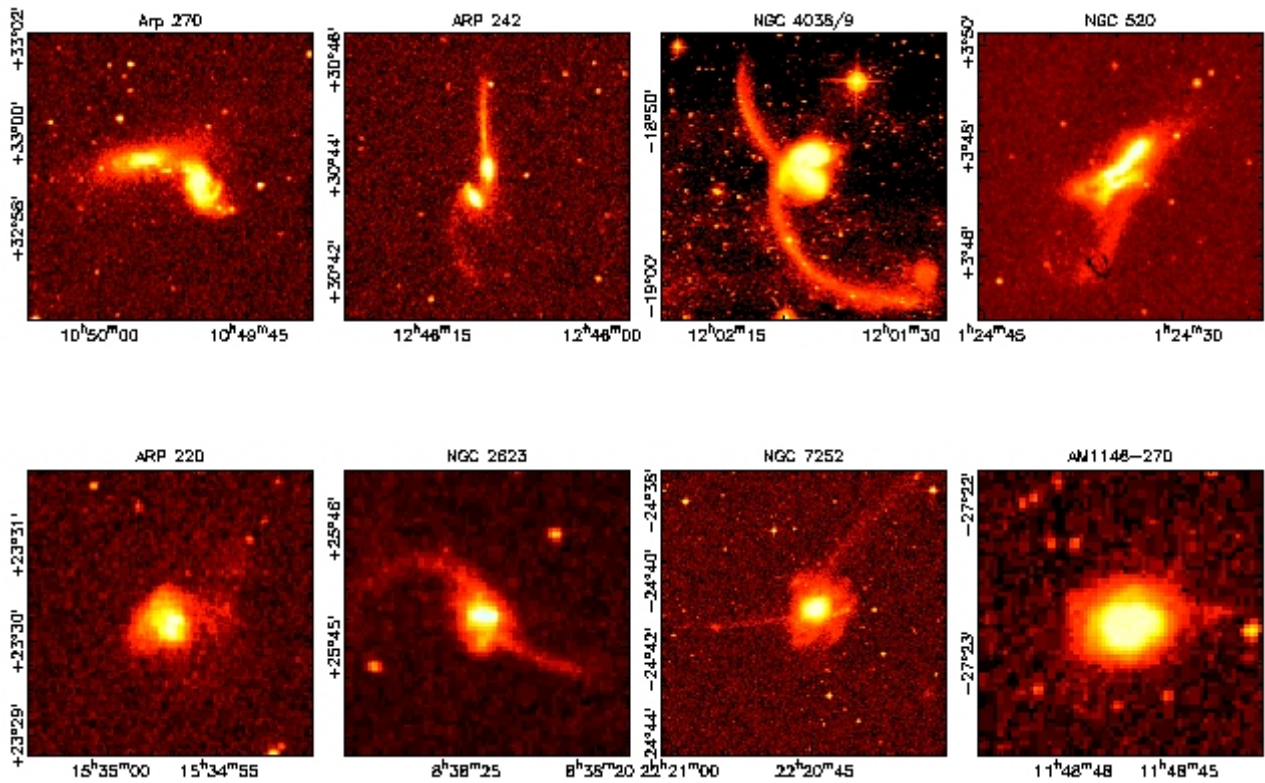
**2.7 Phenomenon of black hole- ( figure -20)**



( figure 20 – Black hole would be formed in contraction phase from quasars (white hole) after expansion is over – prediction of ( participatory science ) theory )

Black holes are formed when the white holes or quasars stop their functions at the end of expansion phase of the universe. During contraction phase the white holes or quasars would transform into black holes. Black holes are the phenomenon of contraction phase of the universe rather than expansion phase of the universe. Black holes are devoid of gravity effect as quasars are devoid of gravity effect. We shall discuss black hole physics while explaining destruction phase or contraction phase of the universe.

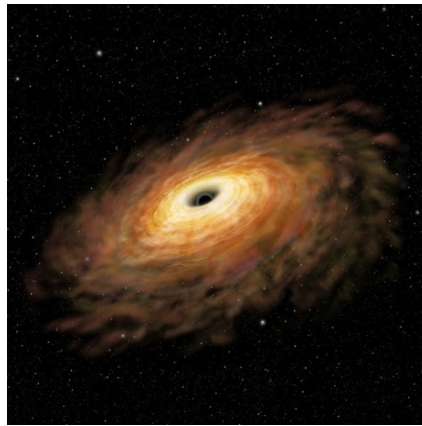
**2.8 Energized Gravitons and merging of galaxies** ( figure 21, figure 22, figure 23 and figure 24)( corrected version –instead of massive black hole , massive black body word is used rest is same as black holes are not the phenomenon of expanding universe )



( figure 21- Galaxies: Merging Galaxies)

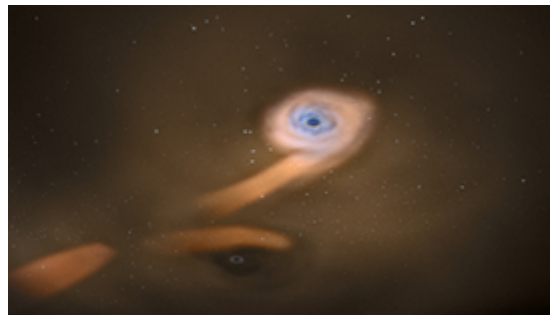
A sequence of optical images of merging spiral galaxies arranged in an approximate order from top left to bottom right: approaching, interacting and finally merging into a single elliptical galaxy. We have studied the way in which hot gas is produced by supernova explosions triggered during this process - see discussion below [1].

Artist's rendition of an active mass-accreting black hole in a luminous gas-rich merging galaxy. ----- [2]  
(figure 22)



( figure 22 Galaxies: Merging Galaxies)

Binary super massive black hole system UNIQUE PAIR OF HIDDEN BLACK HOLES DISCOVERED BY XMM-NEWTON-----[3] ( figure 23)



( figure 23- Galaxies: Merging Galaxies)

22 April 2014 A pair of supermassive black holes in orbit around one another have been spotted by XMM-Newton. This is the first time such a pair have been seen in an ordinary galaxy. They were discovered because they ripped apart a star when the space observatory happened to be looking in their direction. BACKGROUND INFORMATION The results described in this article are reported in "A milli-parsec supermassive black hole binary candidate in the galaxy SDSS J120136.02+300305.5", by F.K. Liu, Shuo Li, and S. Komossa, published in the May 10 issue of The Astrophysical Journal, 2014, Volume 786; doi:10.1088/0004-637X/786/2/103-----[3]. Modified inferencese – ( instead of massive black hole , massive black body) . It is the end of big suns ( more than million solar mass or more which is called massive black body whose gravity is so high that its escape velocity is more than speed of light , hence black ). A pair of super massive black body (not massive black hole ) in orbit around one another have been spotted by XMM-Newton. This is the first time such a pair have been seen in an ordinary galaxy. They were discovered because they ripped apart a star when the space observatory happened to be looking in their direction. Most massive galaxies in the Universe are thought to harbor at least one super massive black body (not black hole )at their centre at the end of their life. Two super massive black bodies ( not black holes) are the smoking gun that the galaxy has merged with another. Thus, finding binary super massive black bodies (not black holes) can tell astronomers about how galaxies evolved

into their present-day shapes and sizes. Galaxies do merge with another . But the cause of so called binary super massive black body (not black hole) is just like of finding of end of binary stars where one ends in red giant and other ends in neutron star. See above . To date, only a few candidates for close binary super massive black body (not black hole) have been found. The new discovery, reported by Fukun Liu, Peking University, Beijing, China, and colleagues, is important because it is the first to be found in a galaxy that is not active. *"There might be a whole population of quiescent galaxies that host binary black massive body in their centres,"* says co-author Stefanie Komossa, Max-Planck-Institut für Radioastronomie, Bonn, Germany. But finding them is a difficult task because in quiescent galaxies, there are no gas clouds feeding the black massive body , and so the cores of these galaxies are truly dark. As we have end stages of stars similarly there could be end stages of galaxies and i.e. the center which was bright by many suns forming center of galaxy merges to form massive black body , thus making galaxy inactive and truly dark. The only hope that the astronomers have is to be looking in the right direction at the moment one of the black massive body goes to work, and rips a star to pieces. Such an occurrence is called a 'tidal disruption event'. As the star is pulled apart by the gravity of the black massive body , it gives out a flare of X-rays. Astronomers thought that there could be stretching effect called Tidal Disruption Event where stars are torn while going into black body by its gravity and during this process , there is liberation of flare of X-ray. In a quiescent galaxy, the black massive body is fed by tidal disruption events that occur sporadically and are impossible to predict. So, to increase the chances of catching such an event, researchers use ESA's X-ray observatory, Usually, the observatory collects data from designated targets, one at a time. Once it completes an observation, it slews to the next. The trick is that during this movement, XMM-Newton keeps the instruments turned on and recording. Effectively this surveys the sky in a random pattern, producing data that can be analyzed for unknown or unexpected sources of X-rays. On 10 June 2010, a tidal disruption event was spotted by XMM-Newton in galaxy SDSS J120136.02+300305.5. Komossa and colleagues were scanning the data for such events and scheduled follow-up observations just days later with XMM-Newton and NASA's Swift satellite. The galaxy was still spilling X-rays into space. It looked exactly like a tidal disruption event caused by a super massive black body but as they tracked the slowly fading emission day after day something strange happened. The X-rays fell below detectable levels between days 27 and 48 after the discovery. Then they re-appeared and continued to follow a more expected fading rate, as if nothing had happened. Now, thanks to Fukun Liu, the behaviour can be explained. *"This is exactly what you would expect from a pair of super massive black body orbiting one another,"* says Liu. Liu had been working on models of black body binary systems that predicted a sudden plunge to darkness and then the recovery because the gravity of one of the black body disrupted the flow of gas onto the other, temporarily depriving it of fuel to fire the X-ray flare. He found that two possible configurations were possible to reproduce the observations of J120136. In the first, the primary black body contained 10 million solar masses and was orbited by a black body of about a million solar masses in an elliptical orbit. In the second solution, the primary black body was about a million solar masses and in a circular orbit. In both cases, the separation between the black bodies was relatively small: 0.6 milliparsecs, or about 2 thousandths of a light year. This is about the width of our Solar System. Being this close, the fate of this newly discovered black body pair is sealed. They will radiate their orbital energy away, gradually spiraling together, until in about two million years time they will merge into a single black body . Now that astronomers have found this first candidate for a binary black body in a quiescent galaxy, the search is inevitably on for more. XMM-Newton will continue its slew survey. This detection will also spur interest in a

network of telescopes that search the whole sky for tidal disruption events. "Once we have detected thousands of tidal disruption events, we can begin to extract reliable statistics about the rate at which galaxies merge," says Komossa. There is another hope for the future as well. When binary black bodies merge, they are predicted to release a massive burst of energy into the Universe but not mostly in X-rays. "The final merger is expected to be the strongest source of gravitational waves in the Universe," says Liu. Gravitational waves are ripples in the space-time continuum. Astronomers around the world are currently building a new type of observatory to detect these ripples. ESA are also involved in opening this new window on the Universe. In 2015, ESA will launch LISA Pathfinder, which will test the necessary technology for building a space-based gravitational wave detector that must be placed in space. The search for elusive gravitational waves is also the theme for one of ESA's next large science missions, the L3 mission in the Cosmic Vision programme. In the meantime, XMM-Newton will continue to look out for the tidal disruption events that betray the presence of binary supermassive black body (not holes) candidates. "The innovative use of XMM-Newton's slew observations made the detection of this binary supermassive black body system possible," says Norbert Schartel, ESA's XMM-Newton Project Scientist. "This demonstrates the import role that long-lasting space observatories have in detecting rare events that can potentially open new areas in astronomy."

#### Background Information

The results described in this article are reported in "A milli-parsec supermassive black body binary candidate in the galaxy SDSS J120136.02+300305.5", by F.K. Liu, Shuo Li, and S. Komossa, published in the May 10 issue of The Astrophysical Journal, 2014, Volume 786; doi:10.1088/0004-637X/786/2/103 The European Space Agency's X-ray Multi-Mirror Mission, XMM-Newton, was launched in December 1999. It is the biggest scientific satellite to have been built in Europe and uses over 170 wafer-thin cylindrical mirrors spread over three high throughput X-ray telescopes. Its mirrors are among the most powerful ever developed. XMM-Newton's orbit takes it almost a third of the way to the Moon, allowing for long, uninterrupted views of celestial objects.

#### Conclusions-

1. These are not black holes . Black holes ( figure 20) are the phenomenon of contraction phase of the universe where quasars would stop their function of continuous creation and they would transform into black holes and start destruction or contraction phase of the universe.
2. As we have binary stars and its dying fate . Similarly we have binary galaxies and its dying fate. Two galaxies start colliding OR merging with each other . It is triggered by mind step by step.
3. The center which was bright becomes black due to formation of massive black body where millions of suns get matted thus forming massive black body whose escape velocity is more than speed of light hence black. It is also called Quiescent galaxies .
4. The arms of binary galaxies starts TIDAL DISRUPTION EVENT . Due to that there is liberation of x-ray burst. The arms would fall into Black massive body and in the end of this phenomenon , two binary black massive body would be there ..

5. Finally two binary galaxies would transform into two binary black massive body and they would unite to form one massive black body.
6. "The final merger is expected to be the strongest source of gravitational waves in the Universe," says Liu.
7. And when light of quasar passes near by these massive black body we observe two quasars which are distorted, deviated and magnified to which we call gravitational lens effect .
8. All the events are triggered by separate thoughts. These are unconditioned thoughts OR fed thoughts and feeding was done in pre creation era by the Highest center of the universe. It is the time mind ness that triggers the event step by step.
9. The galaxies are receding and going away in expanding universe but still they are merging why ?. The reason is, thought of receding is conditioned but thought of merging is unconditioned . Both thoughts are separate and their simultaneous expression is independent of each other . Hence in expanding universe galaxies could collide only when thought of merging is triggered . Hence instead of going away ,they would start merging with each other with still being receding as shown ( figure 24). During this for work done , the energy is supplied by energized gravitons of merging galaxies .



( figure 24 -Droplets of star formation and two merging galaxies in SDSS J1531+3414. )

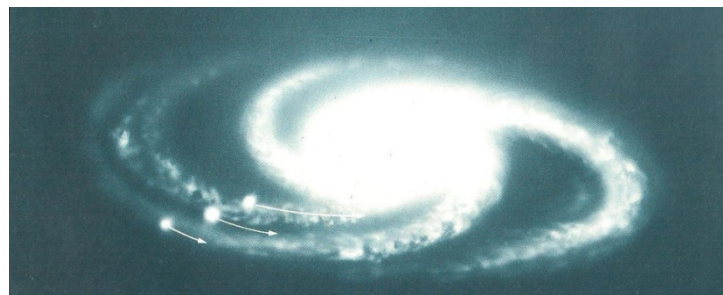
At the centre of this image lie two elliptical galaxies, part of a galaxy cluster known as [HGO2008] SDSS J1531+3414, which have strayed into each other's paths. While this region has been observed before, this new Hubble picture shows clearly for the first time that the pair are two separate objects. However, they will not be able to hold on to their separate identities much longer, as they are in the process of merging into one . Finding two elliptical galaxies merging is rare, but it is even rarer to find a merger between ellipticals rich enough in gas to induce star formation. Galaxies in clusters are generally thought to have been deprived of their gaseous contents; a process that Hubble has recently [seen in action](#). Yet, in this image, not only have two elliptical galaxies been caught merging but their newborn stellar population is also a rare breed. The stellar infants –



thought to be a result of the merger – are part of what is known as "beads on a string" star formation. This type of formation appears as a knotted rope of gaseous filaments with bright patches of new stars and the process stems from the same fundamental physics which causes rain to fall in droplets, rather than as a continuous column. Nineteen compact clumps of young stars make up the length of this "string", woven together with narrow filaments of hydrogen gas. The star formation spans 100 000 light years, which is about the size of our galaxy, the Milky Way. The strand is dwarfed, however, by the ancient, giant merging galaxies that it inhabits. They are about 330 000 light years across, nearly three times larger than our own galaxy. This is typical for galaxies at the centre of massive clusters, as they tend to be the largest galaxies in the Universe. The electric blue arcs making up the spectacular egg-like shape framing these objects are a result of the galaxy cluster's immense gravity. The gravity warps the space around it and creates bizarre patterns using light from more distant galaxies. Astronomers have ruled out the possibility that the blue strand is also just a lensed mirage from distant galaxies and now their challenge is to understand the origin of the cold gas that is fuelling the growth of the stellar superclusters. Was the gas already in the merging galaxies? Did it condense like rain from the rapidly cooling X-ray plasma surrounding the two galaxies? Or, did it cool out of a shock in the X-ray gas as the ten-million-degree gaseous halos surrounding the galaxies collided together? Future observations with both space- and ground-based observatories are needed to unravel this mystery. Mergers occur when two or more galaxies stray too close to one another, causing them to coalesce into one large body ([heic0912](#)). The violent process strips gas, dust and stars away from the galaxies involved and can alter their appearances dramatically, forming large gaseous tails, glowing rings, and warped galactic discs ([heic0810](#)). The merging system is forming stellar superclusters in equally spaced beads just like evenly spaced drops from a tap. The only real difference is that surface tension in the falling water is analogous to gravity in the context of the star-forming chain. This is a wonderful demonstration that the fundamental laws of physics really are scale-invariant - we see the same physics in rain drops that we do on 100 000 light-year scales. [4]

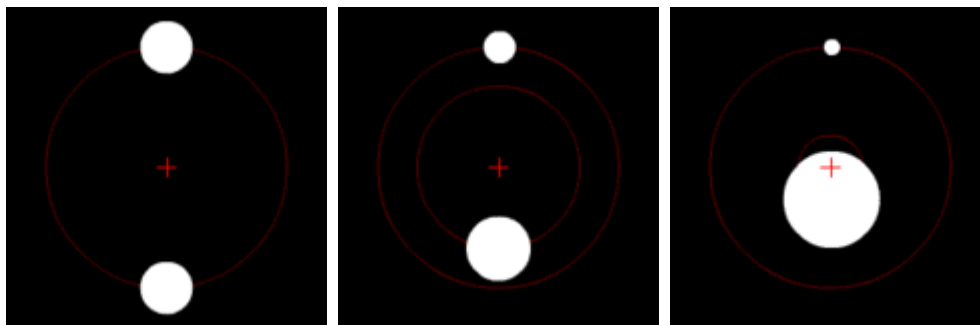
### **2.9 Energized Gravitons and stars of galaxies**

By measuring tangential motion (figure 25) away from and towards the galactic center it has been found that the stars move faster the closer they are to the center of galaxy. (The length of the arrow is proportional to speed -----[5]. The stars which are exposed to high density area of energized gravitons, are subjected to high orbital velocity than with are exposed to less density area of energized gravitons of the galaxy.



( figure 25 – tangential motion away from and towards the galactic center )

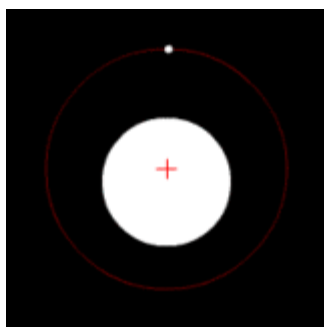
**2.10 Energized Gravitons and Binary system ( figure 26).** A binary system is a system of two objects in space (usually stars, but also brown dwarfs, planets, galaxies, or asteroids) which are so close that their gravitational interaction causes them to orbit about a common center of mass. Some definitions (e.g. that of double planet, but not that of binary star) require that this center of mass is not located within the interior of either object. A *multiple system* is like a binary system but consists of three or more objects.. Binary stars move in the orbit of each other gravity field [6] . But the path which is changing each time is triggered by thought of M2 . The orbital velocity is maintained by energy supplied from interaction of energized gravitons of M1 and vice versa.. Center of mass animations[edit] Images are representative, not simulated. The position of the red cross indicates the center of mass of the system [6].



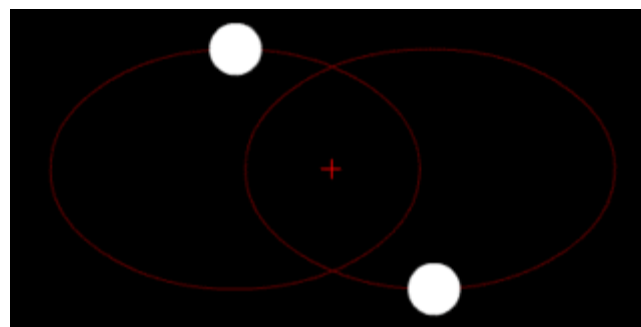
(a.) Two bodies of similar mass orbiting around a common center of mass, or *barycenter*.

(b.) Two bodies with a difference in mass orbiting around a common barycenter, like the Charon-Pluto system

(c.) Two bodies with a major difference in mass orbiting around a common barycenter (similar to the Earth–Moon system)



(d.) Two bodies with an extreme difference in mass orbiting around a common barycenter (similar to the Sun–Earth system)



(e.) Two bodies with similar mass orbiting in an ellipse around a common barycenter.

( figure 26 energized gravitons and Binary system )



It is to be noted that it is the mind of M2 that decides that orbital path of the M2 and how much energy is to be taken from energized gravitons to give the energy effect is also decided by M2. There is nothing like center of mass of the system. Magnitude of orbital velocity is also decided by M2. M1 only liberates energized gravitons. M1 decides the change of orbit of M2 i.e. inter orbital shift effect via first transcription message system. When M2 becomes M1 and M1 becomes M2 in binary system the same process is applied but with different thought if the effect is different.

**2.11- Modified steps of Hydrogen** creation inside quasar and dark matter layer formation ( figure 27)( It is final picture )

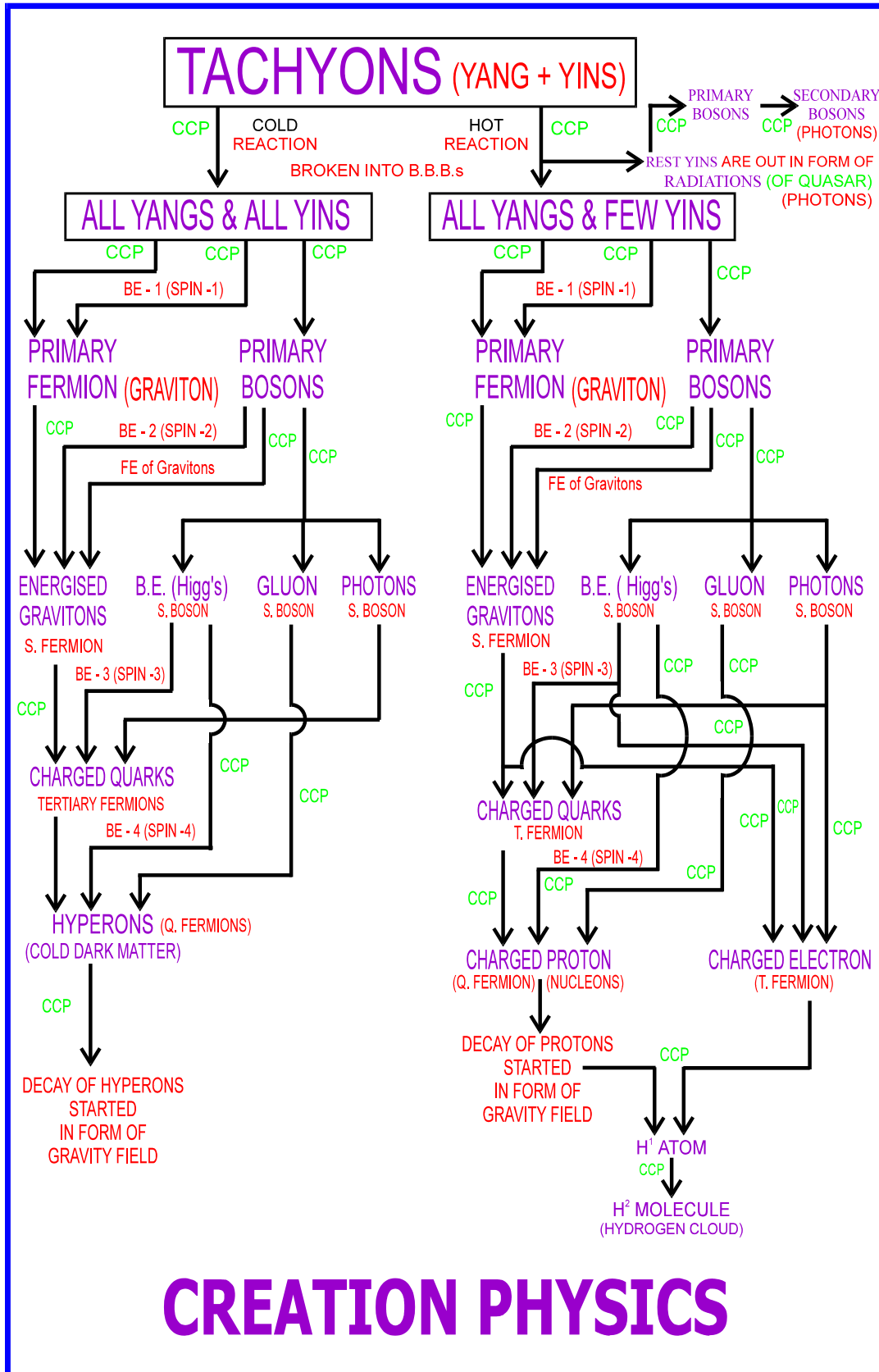
**2.12- Problems with the Standard Model ( figure – 28 and figure 29)** Despite being the most successful theory of particle physics to date, the Standard Model is not perfect. A large share of the published output of theoretical physicists consists of proposals for various forms of "Beyond the Standard Model" new physics proposals that would modify the Standard Model in ways subtle enough to be consistent with existing data, yet address its imperfections materially enough to predict non-Standard Model outcomes of new experiments that can be proposed. The Standard Model is inherently an incomplete theory. There are fundamental physical phenomena in nature that the Standard Model does not adequately explain:

- *Gravity.* The standard model does not explain gravity. The naive approach of simply adding a "graviton" (whose properties are the subject of considerable consensus among physicists if it exists) to the Standard Model does not recreate what is observed experimentally without as yet undiscovered other modifications to the Standard Model. Moreover, instead, the Standard Model is widely considered to be incompatible with the most successful theory of gravity to date, general relativity.
- *Dark matter and dark energy.* Cosmological observations tell us the standard model explains about 4% of the energy present in the universe. Of the missing 96%, about 27% should be dark matter, which would behave just like other matter, but which only interacts weakly with the standard model fields. Yet, the Standard Model does not supply any fundamental particles that are good dark matter candidates. The rest should be dark energy, a constant energy density for the vacuum. Attempts to explain dark energy in terms of vacuum energy of the standard model lead to a mismatch of 120 orders of magnitude.
- *Neutrino masses.* According to the standard model, neutrinos are massless particles. However, neutrino oscillation experiments have shown that neutrinos do have mass. Mass terms for the neutrinos can be added to the standard model by hand, but these lead to new theoretical problems. For example, the mass terms need to be extraordinarily small and it is not clear if the neutrino masses would arise in the same way that the masses of other fundamental particles do in the Standard Model.
- *Matter/antimatter asymmetry.* The universe is made out of mostly matter. However, the standard model predicts that matter and anti-matter should have been created in (almost) equal amounts if the initial conditions of the universe did not involve disproportionate matter relative to antimatter. Yet, no mechanism sufficient to explain this asymmetry exists in the Standard Model.
- (Observation at particle colliders of all of the fundamental particles predicted by the Standard Model has been confirmed. The Higgs boson is predicted by the Standard Model's explanation of the Higgs mechanism that describes how the weak SU(2) gauge symmetry is broken and how fundamental particles obtain mass was

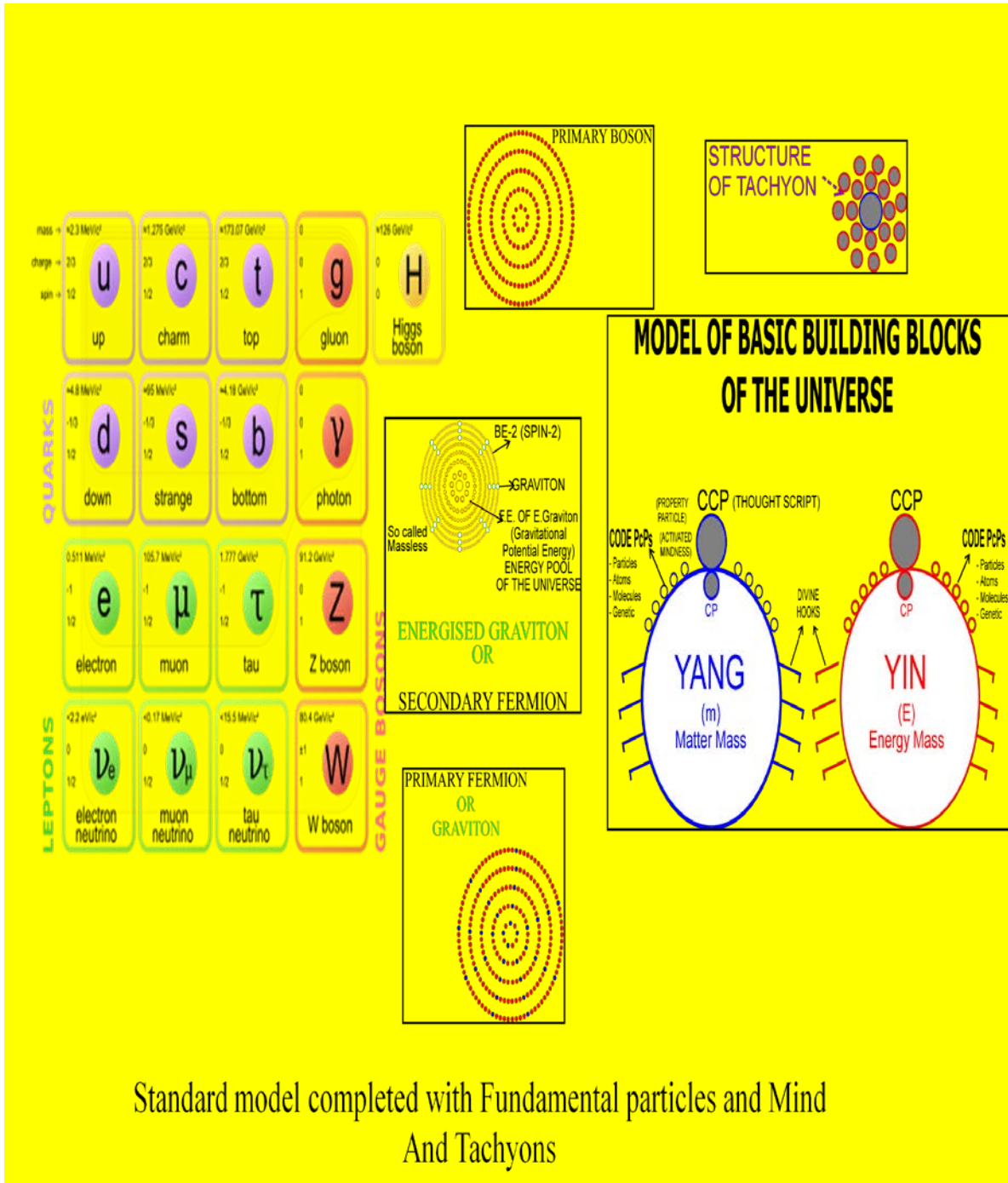
the last particle predicted by the Standard Model to be observed. On July 4, 2012, CERN scientists using the Large Hadron Collider announced the discovery of a particle consistent with the Higgs boson, with a mass of about  $126 \text{ GeV}/c^2$ . A Higgs boson was confirmed to exist on March 14, 2013, although efforts to confirm that it has all of the properties predicted by the Standard Model are ongoing)-----[7]

The problems of standard model have been meticulously solved. ( creation physics – figure 27)

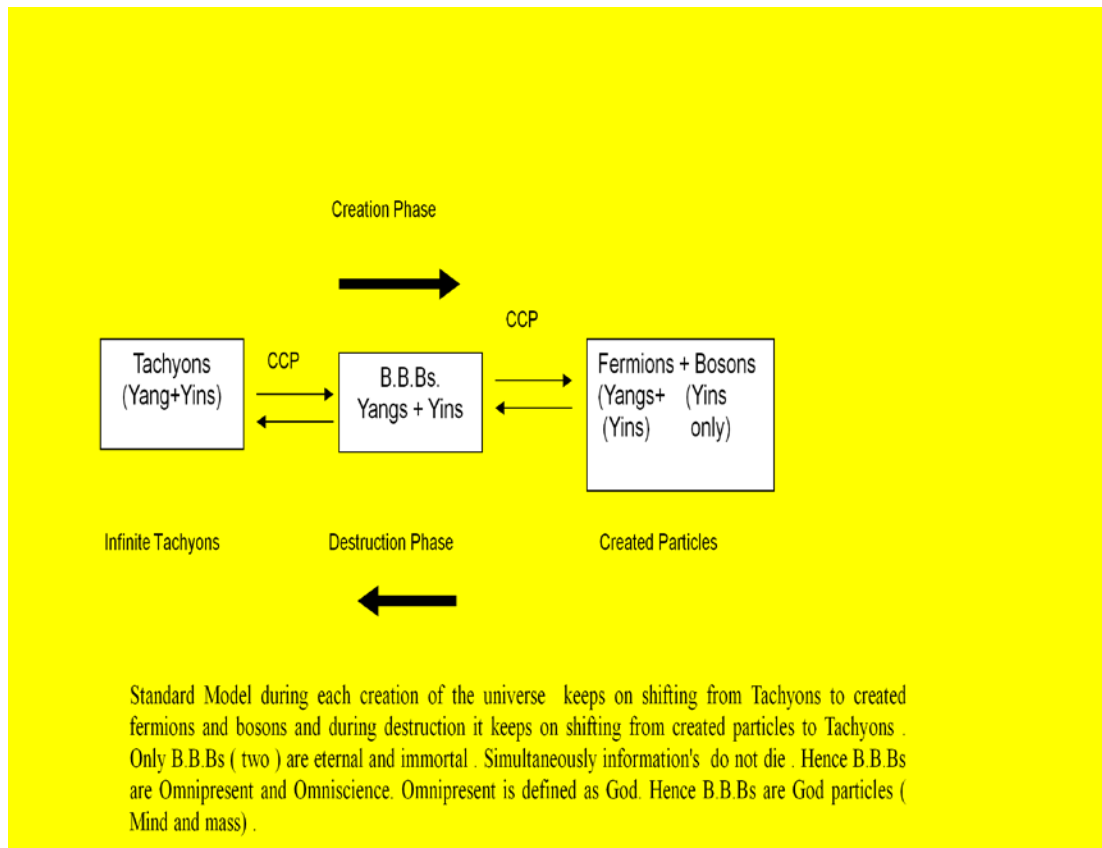
1. Energized gravitons have been successfully discovered by participatory science. They are fermions ( Yang + Yin ) and they have integer spin and they have mass. They are made up of more fundamental particles called primary fermions ( Yang + Yin ) or gravitons . These gravitons are made up of two basic building blocks called matter basic building blocks ( Yang ) and energy basic building blocks ( Yin ) . Upon these B.B.Bs atomic genes ( consciousness or mind particles ) are found. These are of three types – CCP, Code PCPs and CPs.
2. Dark matter is made up of Hyperons . It is made up of quarks and gluons . It forms dark matter layer forming boundary of visible universe.
3. Dark energy is in form of Tachyons found beyond dark matter layer and quasars in invisible universe and dark energy is also found in form of Functional energy of energized gravitons .
4. Matter and Anti matter- Nature did not create antimatter particles with creation of hydrogen and hyperons ( CDM layer ) ( see creation physics figure 27) . Antimatter particles are created in bubble chamber only These are due to fed thoughts and feeding was done in pre creation era by the Highest center of the universe. .
5. Higgs bosons have been created during creation of hydrogen in quasars. It has been confirmed. According to participatory science they are Binding energy ( B.E.) -3, 4, and 5 . Creation of Helium atom ( 25% ) will be discussed separately.
6. Standard Model is modified and completed with addition of energized gravitons (g), primary bosons , primary fermions and Basic Building Blocks and Mind ( atomic genes ) and Tachyons ( figure 28 and figure 29 )
7. Even we utilize energy ( ATP ) from energized gravitons of sun ( During nuclear fusion energized gravitons liberate energy ( Photon)→ Photo is trapped by chlorophyll during photosynthesis of glucose → in glucose molecule it is bonded as chemical energy ( photon) → This glucose is broken down in glycolysis and Citric Acid Cycle into CO<sub>2</sub> and water with formation of 38 ATP→ these ATP are broken into ADP to liberate energy for cell function and muscle movements ) . Our cellular respiration is maintained by energized gravitons of sun .Hence they are the tiniest battery of the universe and without their existence , structure and function of particles , atoms ,satellite , planets ,solar system , galaxies and visible and invisible universe and life are impossible . Total scenario of truth- Mind and Mass figure 33 .



( figure 27 : creation physics of continuous creation theory – Hoyle Narlikar Universe)

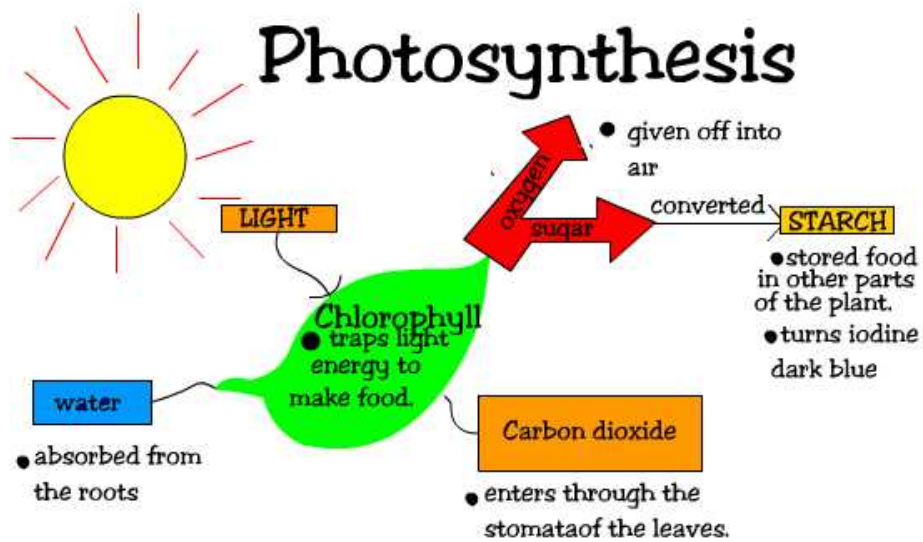


( figure -28 standard Model chart )

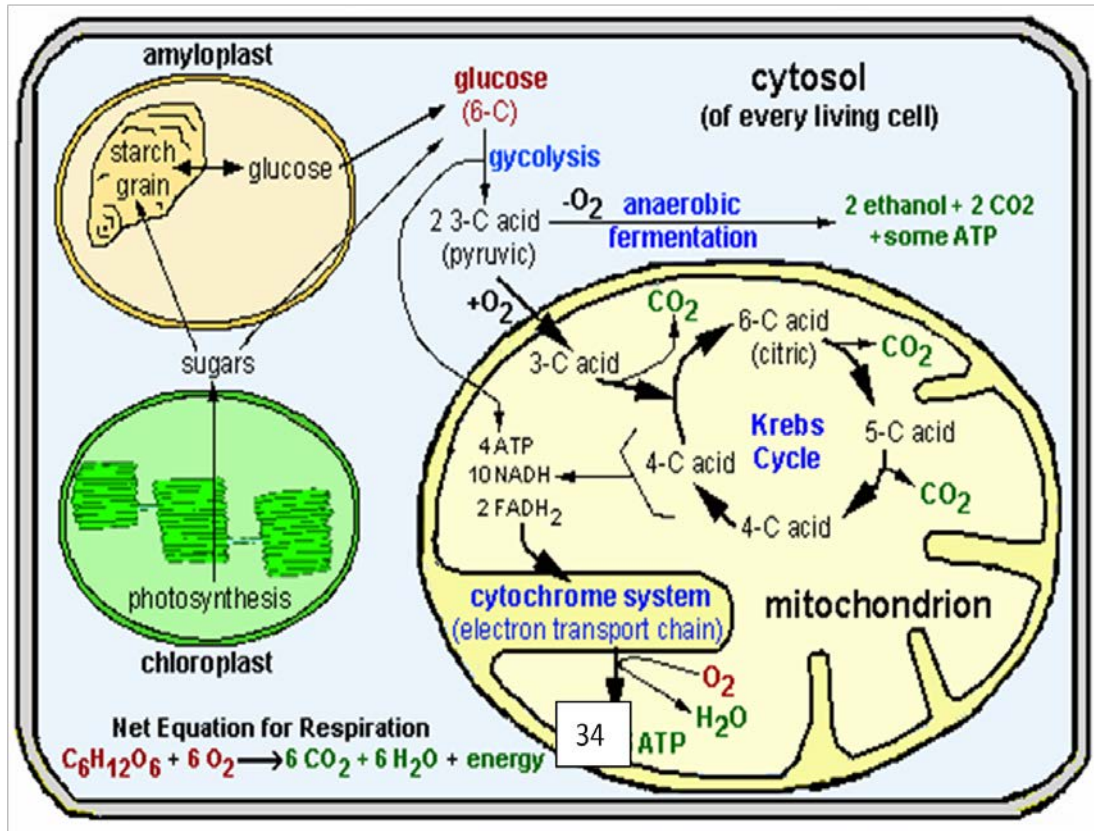


( figure 29- one creation and destruction cycle )

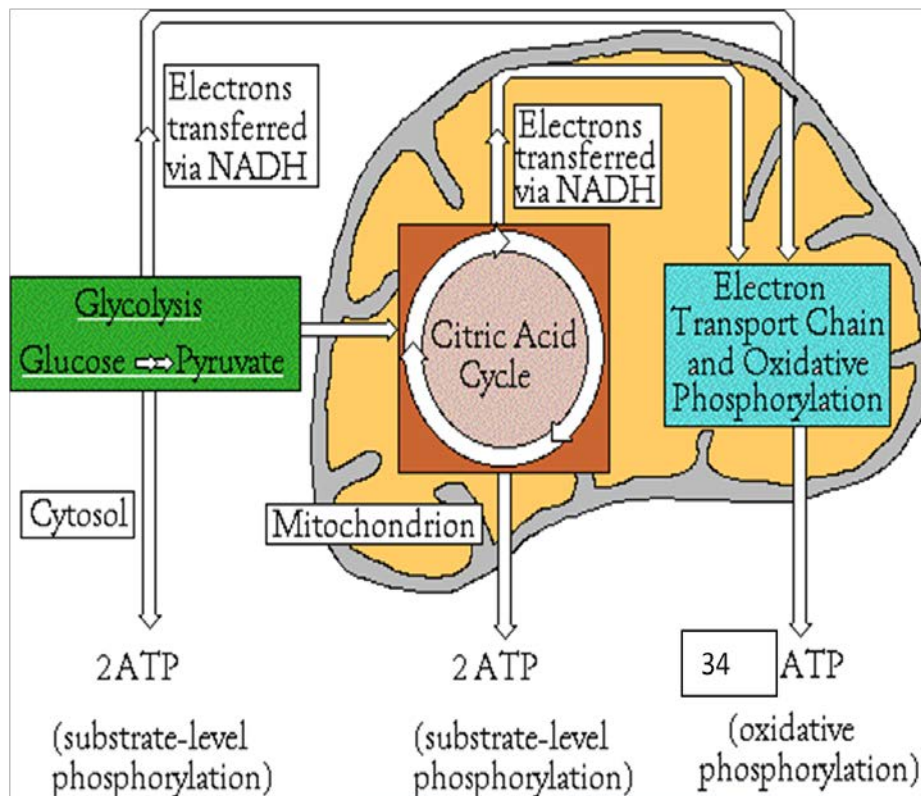
**2.13 -Energized gravitons are the source of energy of our body ( figure 30, figure 31, figure 32)**



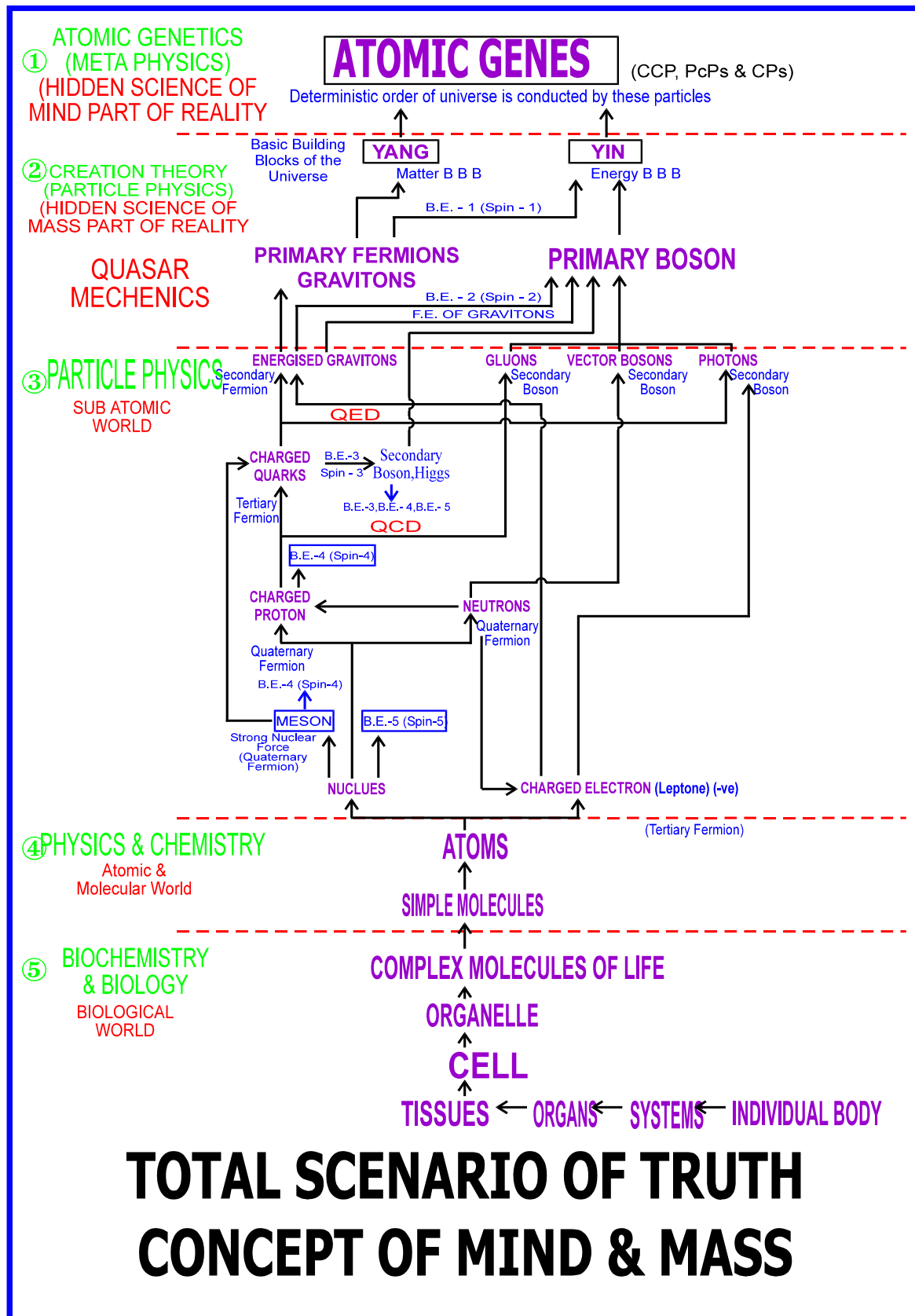
( Figure 30 – photosynthesis – trapping of photon by chlorophyll to transmutate into chemical energy of starch)



( figure 31 - Breaking of Glucose to from 34 ATP . These are battery of living cells )



( figure 32 –38 ATP are energy currency of body . Their energy is utilized in body work done)



( figure 33– Total Scenario of Mind and Mass )



### **3. Conclusion**

Apart from attraction property to center of mass ( M1) which is due to Mind when (M2) is near (M1), it also gives energy ( Primary bosons and secondary boson) to the interacting unit ( M2) for work done . Hence it is not simple graviton ( primary fermions) rather it is energized gravitons ( secondary fermions) as it gives energy to interacting system ( M2). This energy is stored as dark energy in energized gravitons or functional energy ( F.E.)of the universe. Hence all bosons are also secondary bosons and they are made up of primary bosons. Now nature is increasing in size also . As B.B.Bs have mass , by virtue of this property of B.B.Bs, all secondary fermions ( energized graviton ) and secondary bosons ( vector bosons and Higg's ) have mass , including photons, gluons. During decay of quarks or say protons they are liberated from the source ( M1) as string of energized gravitons and their first function is to hold electron (M2) in orbit. Having left the atom these energized gravitons become low energy energized gravitons . Their second target is Photon ( M2) of massive body to give gravitational red shift. The third Target is bending of starlight or photon ( M2) .The fourth target is planetary motion in orbit or to hold planets in orbit ( M2) . The fifth target is inter orbital shift of comet (M2)and asteroid ( M2) . If energized gravitons belong to Cold dark matter layer ( M1) , the (M2) would be receding galaxies making Hubble law in the universe . If energized gravitons belong to center of mass of galaxy ( M1) , then the tangential motion of stars of galaxy is (M2) seen . Similarly on earth energized gravitons of earth ( M1) causes , weight of object ( M2), fall under gravity and acceleration  $g$  during fall of object ( M2) , and interaction with increase in velocity ( increased energy inertial mass ( M2) of electron in CRO . Charged property of quarks and charged and magnetic property of electron are maintained by Functional energy of energized gravitons or due to their decay . Thus indirectly charge and magnetic property of proton and electron or nucleus are maintained by their energized gravitons which form them. Energy liberated in nuclear fission and fusion also comes from this energy pool of universe ( F.E. of energized gravitons ). Generation of electrical energy of Damp ( turbines) comes from same energy pool. Magnetic property of planets and suns are also being formed by energized gravitons . . Our cellular respiration is maintained by energized gravitons of sun .Hence they are the tiniest battery of the universe and without their existence , structure and function of particles , atoms , universe and life is impossible . So calling them hypothetical particles and making them weakest force of universe and making their existence only during early universe of expansion (quantum gravity era ) or making gravity is property of space time are all spurious ideas. There are many phenomena which are being controlled by energized gravitons like phenomenon of binary system, merging galaxies, slowing of atomic clock in high gravitational field , inter-orbital shift of comet , electrons , asteroids and pulsar phenomenon . Fate of stars is also controlled by energized gravitons as energy supplied for work done ( reverse H.R. diagram activity ) during death of the star ( Red Giant) is given by energized gravitons of neutron star.

### **References**

- [1] Andy Read, Trevor Ponman, Ewan O'Sullivan “ Merging Galaxies” - <http://www.sr.bham.ac.uk/~amr/mergers.html> [ 04/18/2002 21:27:10]



- [2] By Subaru Telescope Facility, Hilo, Hawaii “Active supermassive black holes revealed in merging galaxies” - <http://www.astronomy.com/news/2014/01/active-supermassive-black-holes-revealed-in-merging-galaxies> [Tuesday, January 28, 2014]
- [3] Fukun Liu “UNIQUE PAIR OF HIDDEN BLACK HOLES DISCOVERED BY XMM-NEWTON ”, <http://sci.esa.int/jump.cfm?oid=53980> [22 April 2014-]
- [4] Georgia Bladon “MERGING GALAXIES AND DROPLETS OF STAR BIRTH [HEIC1414] ”, - <http://sci.esa.int/jump.cfm?oid=54312> [10 July 2014]
- [5] Colin A Ronan , Deep space , London, p 116
- [6] Wikipedia , “ Binary Star”- [http://en.wikipedia.org/wiki/Binary\\_star](http://en.wikipedia.org/wiki/Binary_star) [30 June 2014 at 23:52.]
- [7] Wikipedia, “Physics beyond the Standard Model ”, [http://en.wikipedia.org/wiki/Physics\\_beyond\\_the\\_Standard\\_Model](http://en.wikipedia.org/wiki/Physics_beyond_the_Standard_Model) [21 July 2014 at 11:04.]
- [8] Vijay Mohan Das, Atomic Genetics and Origin of the Universe- Volume-4 (Part1) , International Journal of Sciences: Basic and Applied Research (IJSBAR), volume 17 , number 1 ( 2014), p 259-291.