Equation for Consciousness in terms of Physics*

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ABSTRACT

Based on the concepts 'Double Relativity Effect'. 'Film theory of the Universe ','Heart of the God model of the universe' and 'Space time equivalence', it is concluded that consciousness is defined in terms of physics as "the electromagnetic field containing electromagnetic waves of velocity greater than that of light velocity." Also it is concluded that because of this high velocity the cell or any living organism will get the perception of events before their happenings. This phenomenon is one of the properties of feeling which is a constituent of consciousness. The degree or strength of consciousness can be measured and defined as the distance of point of generation of conscious wave from the center of space time fluid related to consciousness (d). It can be measured by the equation $V_{cw}^3 . d^2$ = Constant. Where 'V_{cw}' is the velocity of consciousness wave observed. The unit of measurement for degree or strength of consciousness is 'conscious meter'.

Keywords Cosmology;space;time;Siva's Constant;Heart of God;Double Relativity Effect;Film theory of universe;Space time equivalence.

1 INTRODUCTION

At present consciousness is an up coming issue of inter-displinary fields of physics, cosmology,nurology ,genetics etc.The research is going on for the attempts to define consciousness which can withstand for experiments.Physics is only the subject which will give substantiate experimental results.But up to now there is no concept which clearly define consciousness in terms of physics.First of all it has to be defind and should be accepted by scientists to do further experimental verification with in the frame work of physics. An attempt has been made to define the consciousness interms of physics.Brief description of the following concepts is used for analysis to arrive a new concept of consciousness.

1.1. Double Relativity Effect [3]

Double Relativity Effect[3] explained that photon is a Non-Conventional Particle[3] (NC particle). Non –Conventional particle is not a particle. It is a point at which space is zero, time is zero and mass is zero. This point will be viewed as a particle with certain energy and momentum and will have a particular velocity in one dimension. The same particle or point will be with different velocities in different dimensions of time as described in 'Double Relativity Effect.' Also its velocity is constant for all Inertial Frames of Reference. Thus light is a Non-Conventional particle of our four dimensional universe.

1.2. Film Theory of the Universe [3].

As per this concept the universe in which we are living is a result of slide show of films changing at every $7.6813×10^{-44}$ seconds. There is no link between these films. The events are prefixed programmed. It is just like a movie in which 16 photo films will change in every second since it is the caching speed of human eye. Universal films are also similar to movie films. All the films are separate. But universe as a whole is a continuous flow of events.

1.3. Heart of the God Model of the Universe [5].

As per this theory, four dimensional 'space- time' is like a three-dimensional fluid of density 4.776335×10^{60} Kg/m³ . It is in almost spherical shape. It is existed as it is. It has no beginning or no ending. It fluctuates for every $7.6813×10^{-44}$ sec. In each fluctuation, it creates matter. Means, pumps the matter in to this universe. It is similar to a human heart which fluctuates 72 times every minute to pump the blood. So this is called as "HEART OF THE GOD" The density of the matter it pumps is constant. The calculation of density of matter distributed is almost equal to the results of 'steady state theory'. According to this theory, the matter distribution is in order of $4.542157×10^{-42}$ kg cum⁻³sec⁻¹.

1.4. K-Suryon Theory [5]

'K-Suryon theory' is an attempt to give a profound meaning of Non conventional particle introduced by 'Double Relativity Effect'. It concluded that the electromagnetic and gravitational fields can be exchangeable with in a limit. Thus it introduced a new concept that the electromagnetic waves will have elastic nature. Beyond this elastic nature of wave it will not stay in the form of electromagnetic wave. It will be formed in to a mass. This basic idea has predicted a new particle called 'K-suryon'. It is the most elementary particle which takes part of creation of entire mass of the universe. Its mass has been calculated as $1.15×10^{-64}$ Kg. Experimental verification has been suggested as K-Suryon Effect[4]

1.5. Space Time Equivalence [7].

'Heart of the God model of cosmology' says that the four dimensional 'space -time' is like a fluid of density 4.776335×10^{60} Kg/m^3 . The paper entitled 'New cosmological constants' introduced the "Siva's constant-K" with a value 2.0275×10^2 sqmt/sec. Combined analysis of both the concepts concluded that space and time are interchangeable and quantitatively 't' seconds of time can be converted in to a space with a radius of $\sqrt{(4\pi t^3)}$ meters.

2 ANALYSIS

2.1 Time is nothing but Electromagnetic field.

- For our four dimensional universe, light is a Non-Conventional particle with velocity 'C'.
- As per the definition of NC Particle, it will have energy equivalent to its kinetic energy and the kinetic energy is based on the mass in the form of gravity field . Thus it will have two types of energies. One is in the form of gravity field and another is in the form of electromagnetic radiation. Photon is NC particle with velocity of light.
- As per 'K-Suryon' theory these fields will exchange their energies when there is an interaction between two photons with each other. As two photons come closer the gravity field will be increased and the electromagnetic field will be decreased. In terms of waves, the wave will have elastic nature. If elastic limit exceeds the wave loses its electromagnetic nature and will be formed in to mass.
- As per the concept' space time equivalence', space and time are inter changeable .Space will be converted in to time.
- As explained above, gravity and electromagnetic fields will be in the form of energy of NC particle or we can say, a photon should contain space for its gravity and electromagnetic field it contains. But space itself is converting in to time at this stage. So finally all these fields will be in the form of time for a photon which is a 'Non conventional particle'.
- Thus time is in the form of light.
- We know light is an electromagnetic radiation.
- Therefore time is nothing but electromagnetic field.

2.2 Relation between Consciousness and Time

- As per film theory of universe the events of this four dimensional universe are happening due to slide show of films which are changing in fraction of second. All these films are separate they are not inter connected.
- To connect two films, we need 'memory'.
- Memory should contain electromagnetic field.

- If we say that this electromagnetic field is consciousness for living organisms. Research is going on theoretical and experimental aspects of electromagnetic field involved in consciousness is going on[1]. Nonliving things will not have this sort of electromagnetic field and the universe will not exist for them. (double relativity explains that that the universe with all dimensions kept in front of us and we are out of this universe , the universe is space zero mass zero time zero thing)Only conscious organisms will have this sensation of this existence(universe)
- Thus we can say all the living things will have a sort of electromagnetic field contains whole of its physical existence as memory within the fraction of second as explained by 'Film theory of the universe.' A similar concept has been suggested by some research speculations[2].

2.3 Radio waves with greater velocity than that of light & Consciousness

- We know that the consciousness is the space time fluid in between two films of 'film theory of the universe'
- We know that the surface of space time fluid is three-dimensional space.
- The origin (center) of space time fluid is time. And space is gradually converting in to time.
- Maximum length of wavelength is diameter of 'Heart of God' i.e1.9147644×10^{22} mts.
- This is the range of low frequency radio waves of this four dimensional universe, since it is the electromagnetic wave generated in four dimensional universe.
- As per the film theory, the least portion of time is 7.6813×10^{-44} sec. Time cannot be divided further. This is the duration below which consciousness plays role and it is the linkage between two films of the universe. Thus consciousness is a 'space time fluid' between surface of the 'space time fluid' and the center of the fluid .it is in between space and time.
- A wave generated in this fluid (fluid in between space and time) is also an electromagnetic wave but the velocity will be more because the time measuring the distance travelled by wave will be reduced. As per physics, any wave generated in this fluid is an electromagnetic wave. It should follow wave equation $V = n\lambda$
- If this wave comes out of 'space time fluid' and emerges in the surface of space time fluid the wave will have velocity more than that of light in this four dimensional universe.
- We know that anything which moves faster than light will experience time reversal as per special theory of

relativity. It reaches a distant point in space before it starts(time reversal)

- So, the wave whose velocity is more than that of light which emerged from the space time fluid in between space and time (electromagnetic field of consciousness as described above) will follow the same 'time reversal principle' of Special Theory of Relativity.

- It may be ridiculous to here that a particle will reach its destination point before starting. But if it is possible by the waves emerged from inside space time fluid, then the wave or associated field will get the perception of events before their happenings. This phenomenon is one of the properties of feeling which is a constituent of consciousness.

- Thus we can say consciousness is a field with radio waves moves faster than that of light. This is also electromagnetic field described within the laws of physics .so the concept may support the consciousness is a field with particles described by these waves.

3 MESEUREMENT OF CONSCIOUSNESS INTERMS OF PHYSICS

- As explained above, if we consider the least quanta of time 7.6813×10^{-44} sec, then the time bellow which space time fluid is consciousness field. It is in between center of space time fluid in spherical shape and the surface (boundary) of that spherical shape .As per the theory, the surface area increases continuously with time. The surface area represents our three-dimensional space. This will represent our four dimensional universe and its expansion. Here the time is more than 7.6813×10^{-44} sec. Less than 7.6813×10^{-44} sec or bellow the space time fluid represents the consciousness field.

- We have space time equivalence equation $d = \sqrt{(4\pi t^3)}$

- If we consider this equation for this smallest quanta of time then the diameter of the space time fluid will be $d = 7.536 \times 10^{-66}$ mts. This is consciousness fluid.

- This consciousness field represents several points in'd' from centre to the surface along the radius. At center point the time will be 'zero ' as it goes towards surface along the radius ,the duration of time will be more and finally at surface it will be 7.6813×10^{-44} (minimum possible time for this four dimensional universe.)

- The wave generated at any point along this radial distance will be affected by this duration of time. That will be an electromagnetic wave with different velocity and will be more than the velocity of light depending upon its point of generation along the radial direction.

- As explained above ,the perception or feeling which is a constituent of consciousness and increases with the velocity.

- As per the velocity of the wave associated with the consciousness the strength of the consciousness can be defined.

- Thus strength of the consciousness depends on the point of its generation in the 'space time fluid' of consciousness.

- Velocity of wave associated to the consciousness is $V_{CW} = L/t_{cw}$ where t_{cw} is duration of travel of consciousness wave for travelling a length of L mts.
We have space time equivalence equation $d = \sqrt{(4\pi t^3)}$
Therefore $t = (d^2/4\pi)^{1/3}$
So equivalent 'space time fluid' or 'conscious fluid' for t_{cw} is $(d^2/4\pi)^{1/3}$
We know $V_{CW} = L/t_{cw}$
So $V_{CW} \times t_{cw} = L$
The least quanta of our conventional world i.e . 7.6813×10^{-44} .
At this point $V_{CW} =$ Velocity of Light $= C$
and $t_{cw} = t_c$
$V_{CW} \times t_{cw} = L$
$\Rightarrow$ $C \times t_c = L_c$ Where $t_{cw} = (d^2/4\pi)^{1/3}$ and d is point of generation of conscious wave from center point.

Suppose $L = L_c$
$C \times t_c = V_{CW} \times t_{cw}$
For our four dimensional space time $C = 2.997925 \times 10^8$ mts/sec and $t_c = 7.6813 \times 10^{-44}$ sec.
We have $t_{cw} = (d^2/4\pi)^{1/3}$
$C \times t_c = V_{CW} \times t_{cw}$
$\Rightarrow$ $(2.997925 \times 10^8) \times (7.6813 \times 10^{-44}) = V_{CW} \times (d^2/4\pi)^{1/3}$ (Since $C = 2.997925 \times 10^8$ mts/sec $t_C = 7.6813 \times 10^{-44}$ sec)

$\Rightarrow (2.997925 \times 10^8) \times (7.6813 \times 10^{-44}) \times (4\pi)^{1/3} = V_{CW} \times d^{2/3}$
$\Rightarrow 53.53758525 \times 10^{-36} = V_{CW} \times d^{2/3}$
$\Rightarrow (53.53758525 \times 10^{-36})^3 = (V_{CW} \times d^{2/3})^3$
$\Rightarrow V_{CW}^3 . d^2 = 1.534533369 \times 10^{-103}$
Let us call 1.534×10^{-103} as consciousness constant for easy communication purpose.
Thus we can calculate the degree or strength of the consciousness if we know the velocity of electromagnetic wave with more than that of light associated to a living thing. It can be measured by the equation $V_{CW}^3 . d^2 =$ CONSTANT

- The unit of measurement is 'conscious meter'.

4 CONCLUSIONS

4.1. Time is nothing but Electromagnetic field

4.2. We can say all the living things will have a sort of electro-magnetic field contains whole of its physical existence as memory within the fraction of second as explained by 'Film theory of the universe.'

4.3. Consciousness is defined in terms of physics as "the elec-tromagnetic field containing electromagnetic waves of ve-locity greater than that of light velocity." Also it is con-cluded that, because of this high velocity the cell or any living organism will get the perception of events before their happenings. This phenomenon is one of the proper-ties of feeling which is a constituent of consciousness.

4.4. The degree or strength of consciousness can be measured and defined as the distance of point of   generation of conscious wave from the center of 'space time fluid' re-lated to consciousness (d). It can be measured by the equa-tion $V_{CW}^3.d^2$ = constant. Where, V_{CW} is velocity of con-sciousness wave observed. Constant of proportionality is consciousness constant i.e. $1.534533369×10^{-103}$ m^5/sec^3

4.5. The unit of measurement for degree or strength of con sciousness is 'conscious meter'

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