

Cracking the consciousness code

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Abstract

Consciousness is multifaceted, and steeped in our cultural and intellectual history, but still there is always a mystery attached to the concept of consciousness from where it came into existence to answer the mystery surrounding the concept is to use new perspective of thinking by using the holographic consciousness which also relates to the holographic nature of the universe. This theory is also important in the sense that according to many eastern religions there is a belief that there are similarities between human body and the universe. In ancient Indian excerpts of Vedas there is a discussion of holographic universe and human consciousness on the same realms i.e. the very nature of holoinformational nature of brain- consciousness- universe interconnectedness helps to solve the hard problem of consciousness. On that note, this paper is an attempt to unify the ideas of science, philosophy and spiritual traditions in a more transdisciplinary, holistic, integrated paradigm. This paper presents the new vision that consciousness becomes the part of science and very quantum information of the universe which is referred to as the holographic universe.

Key words: Consciousness, Holography, Holonomic quantum information, Ultimate reality.

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Introduction

For centuries consciousness seems mysterious. Whenever one tries to explain the relationship between the brain and the subjective events that are experienced as feelings what the philosophers referred to as “qualia” something that appears to be left out of the explanation. This apparent divide between the brain and subjective experience is called explanatory gap (Levine. J, 2004) and how to bridge this gap posed a problem which is termed as hard problem of consciousness (Chalmers. D, 1995). To overcome the mysteries of consciousness we have to understand the concept of consciousness. Consciousness and its relation to the physical human body were thoroughly analyzed in the Indian philosophy of ancient times. This theory contains many concepts which can lead to scientific answers to some of the questions that brain scientists and modern consciousness researchers are concerned with. In this paper a new idea to understand the hard problem of consciousness is presented which is related to the concept of holographic consciousness. This can be understood with the very famous eastern philosophy of considering macroscopic universe and human microcosm as one which runs in parallel realms with the consciousness as a systematic phenomenon (Satsangi P.S, 2013). There is two basic parts of understanding a universe one that represents the outer cosmos and the one that represents inner cosmos. Which is more logical and abstract in nature since inner cosmos represents the human microcosm because for centuries before the advent of modern science man was considered as the model of our universe since there was similarity in pattern, nature and the structure between the human being and the universe. But this ancient theory was discarded by the modern science because

the empirical evidence was not up to the mark in filling up the gap of hard problem of consciousness. To understand the problem of consciousness and its abstractness help can be taken from the modern theory of holonomic brain.

Consciousness is holographic

In holographic universe, there is nothing that cannot be holographic this includes the metaphysical mind and consciousness as well as the physical energy and vibration. Given the always- and –only coexisting nature of these phenomena – energy and consciousness (not as accepted as always – and only coexisting in the mainstream science. We must consider the relationship of subjective consciousness to the apparent objective cosmos within the holographic consciousness model. The nature of the Omni quantum unified is that of a ubiquitous zero phase (no fluctuation) of energy in a state of perfect, undifferentiated equilibrium. This is not a static field though there is a constant movement throughout the field, just as laser light is coherent while photons move along the beam. Consciousness is of the same nature. There is an Omni quantum spiritual force field, which is a true form of energy. The zero phase which has both positive and negative asymmetries that propagate the differentials of consciousness as correlates which is described as the vector equilibrium (fuller. B, 1917). It is from this absolutely coherent source field of consciousness in pure potential that all thoughts and feelings arise. The nature of this field is equally holographic, wherein all localized expression of consciousness is simultaneously present at every point in the cosmos, and all the information of all consciousness is present in each point as well. It is the reciprocal relationship of the localized and the universal consciousness that manifests

order, balance and integrity throughout the entire cosmos instantly (Bohm. D, 1980). Put another way, all information of all entities in the cosmos is present at every part in the cosmos. Each and every small entity in the universe is a holographic expression of energy and consciousness that is continuously being formed in the form of information in the entire cosmos, and information of the entire cosmos is being informed simultaneously. It is this particular relationship that makes it possible for matter, energy, consciousness in the form of Omni quantum state to exist in a state of fractal wholeness.

This set of information is present everywhere in the universe since the universe itself is holographic in nature but the question arises when we can't see what's behind the closed door or on the other side of earth or the moon eventually these questions give rise to non holographic perspective that when the photons of light are being blocked by door, earth and moon how can we see it the same principle apply to consciousness because we cannot see it. But this information travels from one point to other by reflection and absorption it is this reflection and absorption that lies with all the answer. This is where the concept of fractals in the holographic perspective comes into play, our point of reference, as a human biological entity in a room, or a car, or on a mountain top, is our localized "relativistic" perspective. We have a familiar level or "resolution" of scale that dominates our experience to compromise what we call our reality. Our reality, though is seamlessly integral to other scales of resolution both smaller and larger cells, molecules, atoms and quantum particles (microcosm) and planets, stars and galaxies (macrocosm). The biological scale is pretty much exactly in the middle between the two extremes (Haramain. N, 2007) considering that fundamental to all manifestation at all scales are quantum and atomic microcosmic energy events it is at that

scale that we'll peer into the information exchange that permeates everything.

Imagine that behind the closed door in our example there is another room that we cannot see from what we've described in this exploration, photons of light from every point in that other room is converging at every point in the room. Thus, an image of whole room is present every where. The door which is made up of atoms is being hit by these photons. These photons contain the information which is being received by the outermost atoms of the door. This information is passed to the nearby atomic and quantum energetic structure which is then passed to next atomic structure. With the help of quantum field we can certainly say that information about the room is passed seamlessly from atom to atom through the door and into the room you're sitting in. The information is not in the visible light spectrum which was either absorbed or reflected by the atoms of the door, but the information about the room was retained holographically. Throughout this transmission of information from atom to atom with the ability to "tune into" that information, one could become conscious of the contents of the room without actually being able to see it, such as in the case with the practice of remote viewing.

This is the dynamic holographic model, where in the information from all localized energy events (such as a room) are shared throughout the entire quantum field through quantum interaction- an everywhere present communication system based upon quantum interference patterns that contain are localized information holographically. This is a simple model which describes through a geometric solution how the actual structure of the zero phase "vacuum of space" is itself holographic (Haramain. N, 2007).

Holograms

Holograms demonstrate the property of light how it is produced and how it transmitted and how it interacts and how a information which is present in the whole of universe in the form of holographic matrix of light and this matrix can be used to understand the concept of consciousness . In this paper one such theory is proposed to describe the concept of consciousness with the help of holographic principle. The main driving force with in this holographic matrix is the consciousness which is the concept through which we can use to understand fractal which is the second face of the coin as far as hologram is concerned.

A fractal is a mathematical set whose constituent parts become increasingly detailed according to a field exponential formula, revealing recurrent self similar properties as it is observed on a smaller scale. In other words, the object that is observed reveals the existence of pattern with in it when orienting one's point of view closer to the object. That pattern is constructed of a grouping of smaller patterns, with parts the same shape of the initial larger objects, and are then made up of still smaller versions of the same pattern. The initial object or image was never made made up of anything can be determined by carefully examining the bottomless pit by rendering the object as close as possible technically extending to infinity infact. Therefore, an object that appears to take the form of something due to hidden information which one sees with their conscious eyes is a hologram. In other words, something that is illusion; an illusion that has the appearance of properties that it really doesn't have

Quantum information

Information is basically composed of symbols, media for storing and transmitting the symbols and an interpretational

infrastructure that establishes the meaning of the symbols can generate and decode the symbols and can take action based on the symbols. Dictionary definition of information focus on knowledge, facts, figures and data. At any level of analysis like Chronosystem, Mesosystem, Microsystems, likewise in quantum system also we are surrounded by information around us. This information can be of any form which actually forms our perception, experience which leads to developing a memory of a small child which he uses in his day to day life when he turns an adult to the rest of his life. Information can be found in every sense of thing in an inner cosmos and outer cosmos. At the material level of analysis i.e. in this world information is represented in the form of symbols, letters or artifacts etc. which are the basis of our forming an image about a particular thing or an object. Likewise, at the quantum world everything is in the form of information but this information is more probabilistic in nature .Here we can take an example of simple home computer. A computer understands input given to it and generates the output according to the command given by the user. This input given is in the human readable form but computer being a machine converts every command into the binary information or binary digits i.e. 0's and 1's to perform the user desired actions. This is valid for all machines but if we deal with more abstract topics like the consciousness and the region of true spirits information can be represented not only in the form 0's and 1's state but also in the form of odd prime numbers (3,5,7..etc.) i.e. there are two or more states of information at this level. These quantum bits of information are known as Qbits. Quantum information represents the different state an electron can be at such a minute quantum level. An electron at such level not only limited to 0's and 1's form but also to the qubit state as well. Taking the leaf out of the past researches we can say that human brain also works at certain spiritual

frequencies that can be represented by numbers thus we can say that we can take help of mathematics to solve our problem of consciousness. Since every number contains a different meaning and information attached to it. It is very important to understand the number system and how numbers can be used to represent consciousness.

Towards a holoinformational theory of consciousness

Holography and information goes hand in hand in making our reality and the evidence of it can be found both in the macrocosmic universe or be it in microcosm human the thing that needs to do is study it with more precision some of the recent experimental researches just show that.

Experimental research developed researchers like Pribram. K, (2007) Hameroff (1994), Hameroff and Penrose (1996), Jibu and Yassue (1993, 1995) confirm the existence of a quantum brain dynamics in neural microtubules, in synapses and in the molecular organization of the cerebrospinal fluid. The Bose- Einstein condensates, the Froehlich effect and biological molecules are generated by this quantum brain dynamics, that can assume a high level of coherent alignment functioning as a highly ordered and unified informational state, as seen in lasers and superconductivity these quantum dynamics show us that interaction between dendrons and psychons are not limited to the synaptic cleft But a much wider embodiment throughout the whole brain (Eccles. J, 1992). Psychons are presumed to operate on synapses by way of quantum processes. Good amount of evidence shows that Dendrons make up receptive fields in cortical sensory units (Eccles, J 1993). Dendrons are composed of pre synaptic teledendrons synapses and post-synaptic dendrites (Pribram.k, 1992). They compose the fine fiber structure where brain processing

occurs. As (Pribram. K, 1991) put it “as sensory generated receptive fields they can be mapped in terms of wavelets or wave like patterns. The interconnectedness between brain and cosmos is an instantaneous non local connection and to the concept of a holoinformational flux, from which both mind and matter are in formed that resemble Bohm’s holomovement. But in this new concept, quantum holographic informational field, and capable of generating an informational field interconnection that is simultaneously non-local (quantum holistic) and local (Newtonian-mechanistic) i.e. holoinformational. Taking yet in consideration the basic mathematical property of holographic systems in which the information of the whole system is distributed in each part of the system plus Bohm’s holographic quantum physics data, and experimental data of the holonomic theory of Pribram. We propose that this universal interconnectedness (Lazlo, 2003) could permit us to access all the information (Di Biase & Amoroso, 2008) codified in the wave interference patterns existing in the entire universe since its origin. The quantum-holoinformational nature of the universe interconnects each part; each brain consciousness with all the information stored in the holographic pattern distributed in the whole cosmos, in an indivisible irreducible informational cosmic unity (Bohm & Hiley 1993, DiBiase & Rocha 2000). This universal informational interconnectedness can be understood with the help of following metaphoric quotations from various spiritual traditions. As above so below (Alchemy). All that is outside is inside (Upanishads). The father is inside us (Christianity). This universals interconnectedness could be perfectly understood as a cosmic holographic consciousness. Consciousness in this conception is the holoinformational non- local flux that permits the interaction of the holonomic informational quantum brain dynamics that we can consider the idea of

extended Dendrons with the quantum holographic nature of the universe that we can view as an extended cosmic psychon (Eccles.j,1992).

Indian Vedanta on holographic consciousness

Vedic science is a holistic science; it comprises everything within its fold. This is so because the Vedas and Vedic literature are the expression of cosmic consciousness the only problem with this cosmic science is that one has to have higher states of consciousness in order to deal with it effectively. The decline of this integrated science has been due to the non availability of the experience of higher states. Transcendental consciousness, the simplest form of human awareness is the direct experience of the absolute level of existence. It is the direct experience of the basis of existence; defined by modern science as the unified field of all the laws of nature. Pure consciousness is that level of reality which the ancient Vedic science describes as “Anoranyan, Mahato mahiyan” meaning that which is smaller than the smallest and bigger than the biggest. It is the omnipresent field of cosmic intelligence i.e. the field of jyotish.

Jyotish, being the science of cosmic consciousness is also a holistic science. It is the omniscience that can help find every answer. The answer of the Vedas to this valid question is very simple- you can know anything because you are everything. Further more; the Vedas suggest that the entire universe has been created by our own mind. They say there is only one mind, the one and only cosmic mind and that is the mind of each one of us. Each one of us is said to be in possession of cosmic mind. There is only one mind according to Vedanta, since there is only one consciousness. The consciousness of each one of us is a reflection of the one and only cosmic consciousness i.e. (The creator,

maintainer and dissolver of everything in the universe). Ralph Waldo Emerson philosopher of 19th century gave the idea that the universe is the externalization of the soul. According to ancient Indian excerpts of Rig Veda the knowledge of the “soul” or the self of all beings is the prerequisite to the understanding of anything else. In Upanishads it is mentioned that “know that, by which everything is known”. Further more they say that if you can handle your self, you can handle everything; this is so because you are everything. The greats emphasized on self knowledge that is also expressed nicely in the famous upanishadic verse:

“Shantam shivam advaitam chaturtham manyante, sa atma, sa vigyeyah”

English translation: “That illimitable peaceful state, which is always propitious, free from duality, and which the sophist or wise describe as the fourth state of consciousness i.e. the self, that is to be known, thoroughly, scientifically (Mandukya Upanishad 1.7).

Ancient Greek philosophy recommends same thing as Vedic science does –“Gnothi Seauton”- know yourself, and all will be well with in you.

The same teaching is contained in the Christian advice: “seek you first the kingdom of heaven and its righteousness and all else will be added into you”.

Once we have a glimpse of the omnipresent nature of our consciousness, and the field that is existent in the nature and indeed the source of all that exists, we naturally start to be aware of the interconnectedness at all the levels of creation. Once we have seen the whole, we can recognize the parts as expressions of the whole since the whole is holistic in its nature; its expressions are holistic representations of the

whole. Wherever is the body, there are the limbs, wherever are the limbs there is the body; as Maharishi once phrased it. Vedas themselves declare that the whole creation is the expression of the Veda. “From Veda comes Vishva”

Vedas just means knowledge, pure knowledge true knowledge of reality. If the creation is the product of the knowledge of the Vedas, contained in the soul or self of everyone, it is only natural that there should exist a certain parallels between the Vedas and the Vishva. Our whole universe is a holographic illusion and we are vibrational waves. It is quite fascinating the power our own subconscious mind increasing our own holographic consciousness or awareness. Scientific study and research are already supporting this we can now probably understand what is happening in our mind through logical reasoning using current research.

Consciousness is simply everything that exists in the reality; the only difference is in the way in which experience is rendered from being to being, thing to thing and part to part. The difference is the consciousness of a rock and that of a living being is that a rock lacks an element called brain (and subsequent infrastructure of the senses) to actively respond to phenomenon and identify its body as an integrated whole, however it is conscious nonetheless. Consciousness of this is interdependent on the consciousness of that, and thus the world that is can exist. It is this non absoluteness of consciousness, that breeds the reality as we know it which illustrates the holographic nature of consciousness itself and thus maintains that the world is an illusion; a fractal hologram.

In this holographic nature of the universe world. When you examine yourself, where there are your thoughts, and indeed do

they exist in the first place or not simply attempting to use the reasoning that you are thinking, so therefore you are, is not sufficient because when is thinking, where is your mind and then you can say it's in your brain but then where is your brain, is it located in a specific region or specific cell and do those cells also not have their own smaller parts who then have there own smaller parts. Few are aware of the fact that the apparent solidity of things in the human sense of reality is not all there is there is much more to this world. There exists below the shallow display of ordered form, whenever we see our arm or a table the ability of one's point of observation to extend increasingly further, going deeper and deeper, similar to that what happens when you zoom into a rendering of the earth on a computer starting from space and eventually ending up in someone's living room. There is an entire universe of hidden information concealed from the senses, because the realm of ordered form which the senses reside within us known as human organism and its surrounding world, needs not tune into this immense matrix of concealed information for day to day operation. If it did, the organism would thus be rendered far beyond confused, with a crippling inability to function properly. However, all that one needs is strong enough instrumentation to delve down or expand out, and one will see that whether small or large, that which is, will never be held by the limit of absoluteness, neither in size, nor in form. What exists in the infinitely small, is mirrored in the infinitely large- “as above, so below”

The world is a hologram, and the evidences can be shown by plethora of scientific researchers. Some propound that the senses command the systematic ordering of information which they receive, in accordance with what the organism requires for it to function. This is similar to aspect of physicist David bohm's and psychologist Karl Pribram's study of the holonomic nature of the brain

dubbed the “lens defined model of brain function”. It was thus concluded that once the lens of the senses is taken away what’s left is hologram, energy in varying frequencies which all contain traces of the whole; a trove of hidden information. In other words, the organism itself breeds the forms of its reality and in its absence, what left is can be described as the constituent probabilities and potential for reality as we know it. This is a principle that the field of quantum mechanics explores, which includes the “entangled” nature of subatomic particles, where multiple particles appearing to be separate entities, behave as and in fact plausibly are the same particle, that exhibits identical properties and mirrored remnants of cause and effect, what is done to one particle, is existent in the other particles i.e. the hallmark of a hologram. Additionally researches shows that brain operates according to Fourier mathematics (Pribram, K & Bohm, D. 1993) which incidentally is the very form of mathematics that is used in holography. So it seems that the brain itself is oriented to render holographic information, and for what purpose would this be other than to operate within a hologram. This is a plausible explanation as to how memories are encountered in the brain, where each part contains sum, and memories have no defined location absent of interconnection between neurological regions.

Conclusion

In the present study a unique model of consciousness is presented in a very unique way which incorporates the researches from

the west and the philosophical and spiritual orientation from the east. This model incorporates studies on holography and quantum information to crack the code of consciousness which is a mystery. According to the holofractal nature of reality a single fractal of hologram contains information about the whole hologram. Likewise, the information in the single fractal of a number zero contains the important and unique information about the origin of life and consciousness. And how in a single fragment of zero the whole universe lies if we break down according to the human body the whole ‘shabad and spirit’ current information lies which is the most important and understanding that current of Omni quantum spiritual force field will lead us to the new way of understanding the life and the reality. The holographic nature of reality can explain a myriad of phenomena, from telepathy, to the existence of ghosts, inconceivable or not, the principle of the holographic nature of existence and consciousness has very strong signs denoting to the possibility of its valid reality in such a form, as is suggested here, is not a new concept; delvers into crevices of consciousness have discovered the similar signatures of fabrics which can be seen in the reality. What is happening now, as has been for good numbers of decades are collective strides that the human race is making in uncovering for ourselves the primes of interconnected of everyone and the limitless potential of consciousness.

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