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Twelve Ideas that Might Expand the Scope of Science

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Abstract- Science progresses slowly by Apollonian, who extends its boundary by bringing perfection on the established lines. Science often takes an intuitive leap by Dionysian, who opens an unexpected new line of research. The present paper presents twelve mixes of such ideas which together are capable of extending the scope of science. An analyst could find several ideas within one main idea; assumption, imagination, intuition or obvious reality, not one, however, on any beaten track. Each of the main idea is supported by a figure, the mind's artwork, captioned with several new ideas. Most of the ideas have a bias towards operational consciousness. The erected framework has the potential of ushering in a new Multiversal Worldview accommodating science, humanities, and spirit together.

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Twelve Ideas that Might Expand the Scope of Science

Ashok Kumar Mukhopadhyay

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I. Introduction

cience, derived from the Latin "scientia," originally meant general knowledge physical and spiritual world. Through the ages, however, the meaning of science narrowed to the description and understanding (knowledge) of nature (i.e., the physical world)" - George A Olah, Nobel Prize winner in Chemistry in 1994. Thus, science deals with nature. The present science has been working under the umbrella of Einstein's constant, the velocity of light, Planck's constant of space (10⁻³² cm) and time (10⁻⁴⁴ sec), and the constancy of the entropy barrier. Einstein's constant excludes the simultaneity of events. Planck's constant, which indicates objective cognitive limit, excludes continuity of events. The entropy barrier excludes the identity of events. Nature does not end under the shadow of these constants. There are events that are simultaneous, continuous, and identical! The scientists are looking for the ideas that stimulate science-sensitized minds to extend the scope of present science [1]. There might be bottom-up ideas that push the envelope of science further. It is possible to investigate in science across the pores in its mind-made envelope. It is also possible to start with some ideas which transcend its present boundary. Or, the idea begins from seemingly the imaginary 'top' and across the 'down' embrace the whole. We choose to discuss twelve such ideas spirally intertwined with each other.

II. THE TWELVE IDEAS

a) Axiology of Reality

Nature does not end with the material reality (e=mc²), space-time reality (warping of space-time as gravity, and hyper-dimension), and abstract mathematical reality (multiverse)! There is biological reality as well. Within the biological reality, there is a cognitive reality! Cognitive reality could extend into any kind of reality including cosmological reality. Mathematical reality could construct multiple universe(s) but cannot account for biological reality which is integral (in contrast to integration) of several asymmetries. To look into the axiology of the reality within systems science could be our first idea (Figure 1). When someone says he is a "voice" without a form, it seems information exists prior to 'form' (space and time). Informational reality is before space-time reality! The source of such a voice, i.e., 'information' is "life". The reality of life is prior to the reality of information. The idea provokes us to ask, what is the source of matter, and what is the source of space and time? Which of the two statements is correct; matter generates life as prevalent in present science, or the life generates matter?

The Reality of Nondual Cons.

Cognitive Reality
(Consciousness, Self, Life, Higher Information-states)

Biological Reality

Cognitive Reality (Life, Mind, Information, Signal)

Material Reality

Ref: World J Psychiatry Ment Health Res. 2021; 5(1): 1028.

Figure 1: The Reality could be described in three strata. Biological reality is at the center. Nondual Consciousness Reality is at the Top, and Material Reality is at the Bottom. Biological Reality does the homeostasis between Consciousness reality and Material Reality. Three Realities influence each other, both Top-Down and Bottom-Up. Biological Reality has a Cognitive Reality within. Biological Reality connects with the Material Reality with the help of Faculty of Life and Mind, Information and Signal. Biological Reality connects with nondual reality by System's consciousness, Faculty of Self & Life, and initially with the Higher Information States

b) Cognitive Systems

Within the cognitive reality, there are several operators, for example, mind, self, life, consciousness, several operations, and specific currency with which the operations are conducted. Exploration of this system of cognitive faculty as a cognitive organ (Figure 2) is the proposed second idea for extending the boundary of science. Consciousness is the will-making entity and operates as the event manager. The event-generating entity is the mind. The logic and ethics for events are laid down by 'self'. The aesthetics of the event is taken care by 'Life', which also works as a homeostatic manager to handle uncertainty, asymmetry, and imbalance of visible and invisible dark energy (funding of events). Asymmetry-symmetry homeostasis is a function of "life". Science does not begin and end in symmetry. The creation begins in asymmetry and ends in asymmetry. Life-operation transforms non-qualifiable consciousness into quality

state. The self and the mind together transform quality state into a quantifiable state. When mind-operation breaks down integrated state into a state of disintegration, life-operation produces an integral state out of disintegrated components.

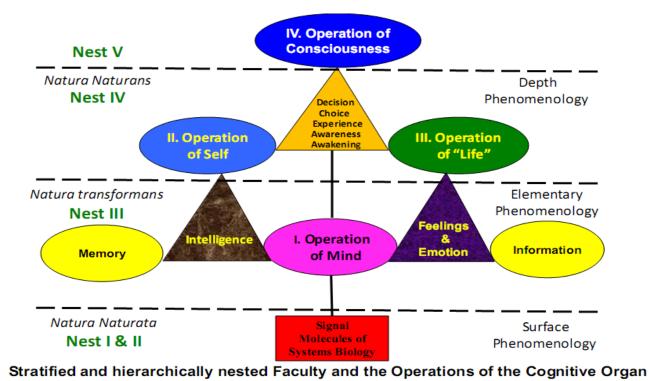
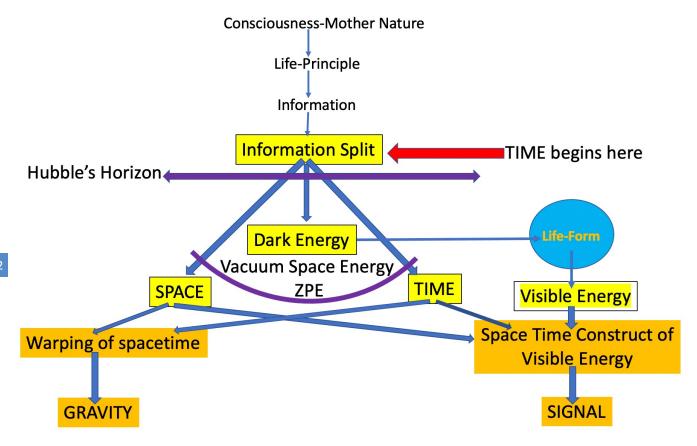


Figure 2: The Cognitive Organ consists of Cognitive Faculty and their Operations. Cognitive Faculty, although nonlocal, are hierarchically positioned when they perform as a system. The Mind, from the Nest III of Nature (Natura Transformans), operates (Operation I) as the Final Common Pathway to connect with the material nests (Natura Naturata, Nest I & II). Operational positions of the Faculty of Self (Operation II) and of Life (Operation III) are Nest IV (Natura Naturans). Consciousness operates (Operation IV) from Nest V. Within nest III, Mind, Self, and Memory jointly operate to produce Intelligence while Mind, Life, and Information jointly generate Emotion. Once the Mind is stabilized, Consciousness, Self, and Life are responsible for Awakening, Awareness, Experience, Choice, and Decision. Phenomenology observed in the Material Nest is Surface Phenomenology. Phenomenology of Self & Life is Depth Phenomenology. Phenomenology of Nest III is Elementary Phenomenology.

c) Information. Its nature and science

The currency with which this cognitive organ operates is information in its various states such as signal (a space-time construct of energy), informationas-such (non-digitized but factorizable), information with definite architecture (non-digitized and factorizable) that could be used without further deliberation (which in common language is called knowledge), information manifold (in common language called experience), and the crystallized information as the wisdom. We do not know the mechanism of interconversion of different states of information! What is the currency of this interconversion? Surely not visible energy! Is it some kind of invisible energy, dark energy operating within the non-observable semantic domain? Exploring the nature and science of information is, therefore, the third idea (Figure 3) to ponder. For science, this is the time to embrace information holograph, shifting focus from classical and quantum holography.



Ref: J Neurosurg Imaging Techniques (2020); 6(3):347-366.

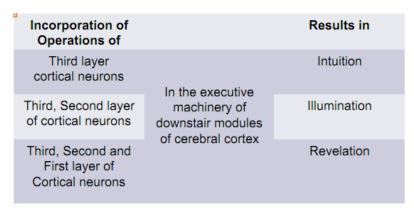
Figure 3: The subtle part of Life has been called Life-Principle that is sourced from Consciousness-Mother Nature. Information originates out of uncertainty in the relationship between Consciousness and Life Principle. Information Split, an operation of Mind, is the cause of the genesis of Form (Space & Time) and Energy at the level of ZPE (Zero-Point-Energy). Mind originates with Duality at the border of the system. The Mind works as the organ of communication between two conscious systems, and Information is the unit of communication between two conscious systems. Time begins with Information split. Space and Time, so produced, are warped as Gravity in a 4-D World. Dark energy is converted into Visible Energy by Life-Form. The space-time construct of visible energy is a signal

SMOC and SNOC

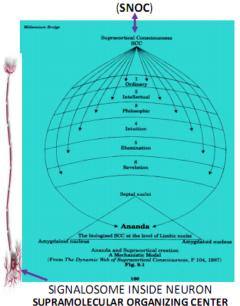
The living cell is a holographic minuscule of the whole universe. This idea supports the view that David Bohm tried to explain to Einstein that the universe is living, infinite and holographic! Within such larger overarches, genes are merely carriers of information. Information drives the genes. Neurons are too carriers of signals. Information processing is a prerogative of the mind in the semantic domain. The idea of signalosome (Supra Molecular Organizing Center, SMOC) [2] within the smart cellular laboratory is the latest in cell biology. The SMOC is where from cell signalling is coordinated and is probably regulated. However, the signal is not the information. Information is in the semantic domain deeply connected with cognitive faculty such as mind and self. Therefore, SMOC is also the center where molecular automation and cell autonomy, a property of the living entity, merge. This idea could be extended in

neuroscience as Supra Neural Organizing Center (SNOC) (Figure 4) for connecting the nervous system of the biological body with the cognitive reality. Within this SNOC there is a supposed merger of neural automation, neural autonomy, and consciousness with a greater degree of freedom of cognitive "will" that operates with a large number of options. This is our fourth proposal for extending the scope of science. The idea of SMOC and SNOC push the present envelop of science further. However, this is the number one idea that makes the whole of neuroscience upside-down, supracortical consciousness as an existing reality.

The Cerebral cortex – as a Supracortical Machinery



Ref:Mukhopadhyay AK. The Millennium Bridge (2000)



(SMOC)

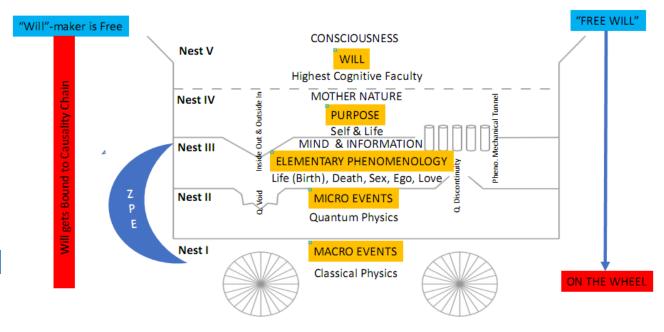
THE ESSENCE OF THE MULTIVERSITY

SUPRANEURONAL ORGANIZING CENTER

Figure 4: The blue-colored picture is from Author's book, *The Millennium Bridge* (2000). The cellular laboratory is not merely automated but is also smart. The Supra Molecular Organizing Center (SMOC), also called Signalosome, is the junction of Automation and Autonomy in the function of a cell (neuron). One hundred billion neurons make the human brain. On the upper surface of the cerebral cortex, there is proposed to be a Supra Neural Organizing Center (SNOC) for communication between brain-bound consciousness and brain independent universal/multiversal consciousness. Supracortical consciousness (SCC) is then an existing reality. SCC and SNOC maintain a tangled hierarchy. At this phase, the cerebral cortex becomes a supracortical machinery. Cerebral cortical neurons are arranged in six layers, the top layer is the first, and the bottom layer is the sixth. The Neurons of the lower three cortical layers work in a modular fashion. In the absence of operation of SCC, mostly lower three-layers (4th, 5th, and 6th) are active. With the action of SCC, incorporation of 3rd cortical layer neuron activity in modular cortex results in Intuition. Incorporation of 2nd and, 3rd cortical neuron activities in modular function results in Illumination. Incorporation of 1st, 2nd, and 3rd cortical layer neuronal activity in modular cortex results in revelation.

e) Pentaune Model of Nature-consciousness

The fifth idea is to look at the total spectrum of nature in a stratified nested way. Nature does not end with the end of gravity or is not limited within Planck's scale. Nature could be visualized as nested, the one nest within a deeper nest and so on...., all together might be categorized as nest I, nest II, nest III, nest IV and, nest V (Figure 5). Chronologically, the nests represent respectively the nests for macro events, micro-events, elementary phenomena for the events to happen, a nest for planning the purpose and the intents of the events, and the nest from which the "will" for the events generates.



Pentaune Model of Nature-Consciousness

Figure 5: The nature-consciousness spectrum is delineated into five nests. Nest I accommodates the macro events governed by principles of classical physics. Nest II accommodates the micro-events governed by principles of quantum physics. Nest III is the domain of Mind, Information, Memory, Intelligence, and Emotion. This is also the site for Elementary Phenomenologies such as Life (Birth), Death, Ego, Sex, and Love. Nest II could be bypassed, and one could enter Nest III from Nest I through ZPE. Nest III ends at the boundary of the systems, our brain/Universe, with the happenstance of the phenomena of inside-out and the outside-in. Nature transits to Mother Nature in Nest IV, where the purpose is chalked out for the required phenomenology in Nest III, and the events planned for Nest II and I. Self and Life, which maintain a tangled hierarchy amongst themselves operate from the border of Nest IV. Consciousness, the highest Cognitive faculty, asserts its supremacy through its strongest political "will"! The willmaker is Free but the will, once made, gets bound to the causality chain.

On the side view, this arrangement looks like the layers of nature while in fact, this might be considered as a spiral beginning at the level of will and extending down to the event. This is an infinite spiral on the cosmic scale, finite-infinite on the human scale, minuscule on the cellular scale, connecting the willmaking entity/operator/operation/center at the deepest domain with the broad-based most superficial domain of macro events. Every nest has a boundary, doors of communication with the adjacent nests, and specific currency with which the specific operators work for the operations.

Now, we will describe two Ideas (Idea no 6 & 7), which see science across the "pore" in the existing envelope. Albert Einstein had led science to the level of ZPE. Quantum physics has led science to the point of quantum discontinuity and quantum void. There are enough scopes for extending science across these pores existing on the envelope of today's framework of science.

ZPE

Space and matter are closely connected in the 4-D world. The matter is that which has mass and always occupies space. Could there be any space not related to matter or rather totally independent of matter! Einstein found a space with no matter but is occupied with near-zero energy, which is not constant but fluctuating. This energy does not follow the law, e=mc². It is reported that after working with it for several years, Einstein abandoned this from his doing science. This is widely known as Einstein's cosmological constant. Zeropoint energy (ZPE), is said to be the most serious finetuning problem in theoretical physics because of its inexplicable smallness as found by experiments (nonzero but not greater than 10⁻¹²⁰Ap. One Ap is equal to one Planck's mass per cubic Planck's length). This energy has a role in preventing the collapse of the universe or preventing inflation being eternal. From this fact comes suggestion of its relation with dark matter and dark energy of the universe. The value is not stable and there could be several values between zero and 10⁻¹ ¹²⁰Ap. Only a small fraction of the stable vacuum is hospitable to "life" [3]. Several post-COVID-19 sufferers' experiences of space empty of matter, which includes many scientists, have brought ZPE on focus for germination of a new science across ZPE. The new idea (Fig.6) is that this pore leads us to the domain of mind, therefore connecting psychology with physics!

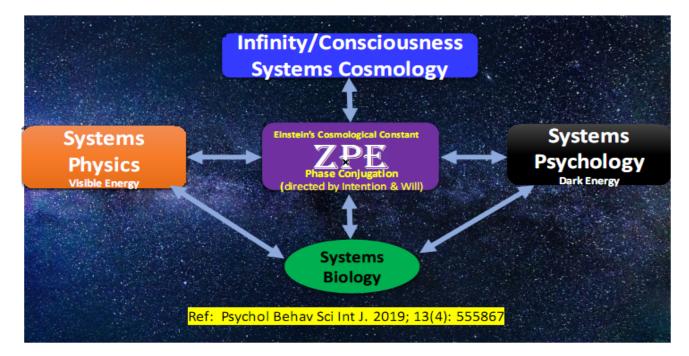


Figure 6: Zero-Point Energy is the transit gate between observable and non-observable nature. This is the exchange ground for Systems Physics and Systems Psychology. Through ZPE, Systems Cosmology communicates with Systems Biology. Phenomena and Events happen by phase conjugation. This is the site of dark energy-visible energy inter-conversion, also the site of information-signal and signal-information conversion

When a cell or any biological organism accesses the domain of semantics, accession happens through ZPE. Conversion of signal into information and vice versa happens through ZPE. Also therefore, cell biology accesses cosmology through ZPE! The entrainment and enactment of the heart and the brain are supposed to happen involving ZPE. The idea merits further investigation.

g) Quantum Discontinuity and Quantum Void

The photon is here, the photon is there, but where was the photon in between? Oh! Do not bring the existential issues here! We are interested in the mechanics executed by photons and are not concerned with existential issues! Others say photon disappears to hold an instantaneous transaction with the Infinity! But, what about the quantum void, which is supposed to be the source of quantum physics? What is the relation between quantum void and intergalactic void of cosmology? Quantum void leads us to nature beyond Planck's scale! When we ask, "quo Vadis quantum mechanics", we move towards discontinuity. When we ask, "unde venis quantum mechanics", we focus on the quantum void (Figure 7).

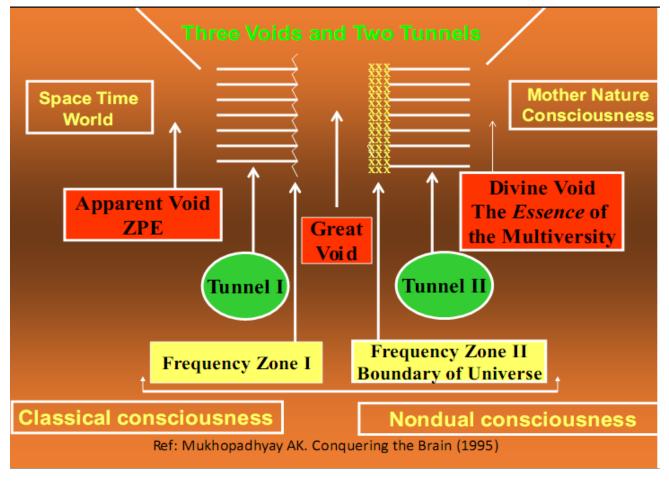


Figure 7: The passage of communication across the total reality consists of three Voids, two Tunnels, and two Frequency zones separating the space-time World from the Essence of the systems Multiverse(s). Apparent Void begins at ZPE. The Great Void is the dark cold domain of the Intergalactic region. The Divine Void is the domain of Nondual Consciousness and Mother Nature. The Voids are linked by Tunnels I & II having frequency-like zones on either side of the Great Void. Interestingly, our Mind is a structure and process consisting of these seven layers acting as a communicating organ between system-bound human consciousness and system-independent non-dual consciousness!

From Idea no seven and figure seven, we get seven layers of the mind that is interposed for communication between two conscious systems. This also leads us towards the design of the cosmic womb.

h) Mother's womb has been designed in the image of Cosmic womb!

The relationship of ZPE with quantum discontinuity and quantum void is not known. When we follow the classical physics, we are pushed to the porous space at ZPE. When we follow quantum physics, we reach discontinuity and void! Their relationship with the black hole and the white whole is completely unknown! What is amazing, however, is that Mother's womb and the cosmic womb have a similar design (Figure 8).



Figure 8: Amazingly, Mother's womb has a design similar to Cosmic womb. Vaginal space corresponds to void at ZPE. The uterine cavity represents the Great Void. Ampulla of the Fallopian tube represents the safe Divine void within the system, for fertilization! The narrow cervical canal is the first tunnel. The narrow Fallopian tube from the isthmus represents the second tunnel. Two conscious systems, sperm and ovum, meet at the fertilization site of the birth canal after crossing over the design of the cosmic womb, racing across seven layers of the mind

In biological creation, all masculinity ends in vaginal space, equivalently at ZPE. The next all are femineity. Out of millions of seed creatures, one and only one becomes successful for a new creation. The Divine void is the sacred place for fertilization. We learn the ethics that while exploring cosmology, we better respect nature as Mother Nature. Better we also respect every female, girl, and woman as Mother, since she possesses the womb made in the image of cosmic Mother! On the top of our brain, the divine void operates on SNOC.

Next,, we are led to two ideas, Idea no 9 and 10, that take us across the present framework of science; the idea of the multiverse and the existence of an operational consciousness.

i) The idea of the Multiverse

Our science, so far, has been working with the concept of only one universe! Is there nothing beyond our own universe? The emerging idea is that there is multiple universe(s). Mathematics supports the idea of a multiverse [4]. The Multiverse is an extension of our Hubble's horizon beyond 42-44 billion light-years radius when it is Type I. This kind of multiverse is often described as Megaverse! The multiverse might be interconnected bubbles of different sizes (Type II), often described as Metaverse! The Multiverse might be multiple superposed versions of our existing universe

(Type III), or as existing completely disconnected and independent of each other (Type IV multiverse). We are not satisfied to accept the extension of the boundary of the existing universe as Megaverse in the stillness and emptiness, silence and nothingness. We are equally dissatisfied with hyper dimensional/multidimensional interconnected bubbles of Metaverse where life cannot flourish! We are not concerned with the superposed universe where the cat will be simultaneously dead in one and alive inside the other because different universe follows different laws. We are interested in the multiverse Type IV, which has room for an infinite number of nested Hubble spheres, sourced from the One, and governed by the identical systems of laws, maybe with contingent modification. Therefore, this idea cannot be considered as a neologism to escape from several constancies in science and phenomenology, ethics and aesthetics! In social science, a close example of the existence of such a multiverse is when thousands of members of the entire community simultaneously get the dream of one person as their leader-elect. Such apparently disconnected and independent multiple universe(s) form a system, which might be called, The Multiversity. There exists an Essence from which these multiple universes are sourced. This might be called the Essence of the Multiversity. The Multiversity is the largest intellectually comprehensible system, supposedly the primal source

9

of systems science. We are interested in final transcendence into this *Essence*! That multiple universe(s) dance on the SNOC of some of our brain means little. We feel blessed when the SNOC is immersed in this *Essence* to usher in the beginning of Multiversal Neuroscience and Immersive Neuroscience!

Along with oxygen we breathe in, and along with carbon dioxide we breathe out the *Essence* of the Multiversity. As First-Person-Universal we swim in the *Essence* of the systems Multiverse. Figure 9 shows how the idea of the *Essence* of the multiverse Type IV could be connected with several disciplines of science.

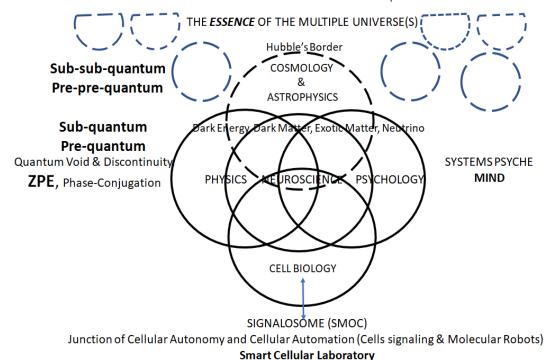
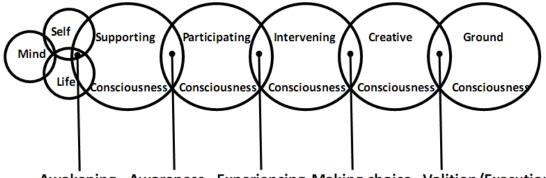


Figure 9: Figure shows how the Essence of the systems Multiverse might connect with several disciplines of science. The Essence is the source of multiple universe(s). This Essence could be connected with the disciplines of Physics and Astrophysics, Cosmology and Psychology, Neuroscience and dark energy, smart cellular laboratory with the laboratory of the Multiverse. The link is through the subtle part of Life, the Life-Principle. The concept of pre-quantum (sub-quantum) and pre-pre-quantum (sub-sub-quantum) are important. The Mind operates across the level of ZPE.

Is it all a Mind-Game by Self and Life across sub-quantum (pre-quantum) and sub-sub-quantum (pre-pre-quantum) space! The Mind operates across the level of ZPE! However, the mind becomes imperceptible towards the border of the universe!

i) The idea of Operational consciousness

The idea that consciousness is not merely an ontological and inert substance but also operational, merits to be taken up by science. Consciousness, although is the ground without any background, is a "will"-generating ground. To begin with, consciousness is a strong supportive ground that supports elementary phenomenology of observable events, an intervening active substance to change the trajectory of events, a creative field along the infinite spiral line of conversion of "will" into an event (Figure 10).



Awakening Awareness Experiencing Making choice Volition/Execution

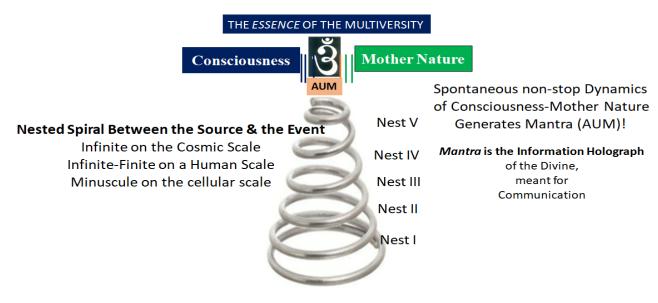
Caterpillar Model of Consciousness-on-Operation

Figure 10: The Mind is the Event-making agent. Self provides ethics, logic, and a part of logistic. Life participates as a homeostatic manager to take care of asymmetries, uncertainties and, dark energy. All these happen with consciousness's support (supportive consciousness). The person becomes awake. When consciousness starts actively participating (attention, concentration), the person becomes aware of what all is happening. Following looping of the operation with intervening consciousness, the being starts experiencing. Looping with creative consciousness brings the ability to choose. "Will" generates from inter-looping with ground properties of consciousness; volition/execution of the desired choice is the result. In this way, consciousness gets involved stepwise like the movement of a caterpillar, thereby producing a caterpillar Model of Operational Consciousness.

Consciousness operates not with any currency of force, energy or field! Consciousness operates with will and intention, disarming all kinds of energy, fields, and force! Science for consciousness is occupied with operational consciousness, where holding consciousness as the inviolable constant, the ongoing science coevolves with humanity and the spirit helping the emergence of a new intergenerational and Multiversal Worldview, that accommodates humanity, science, and spirit along with the attitude, the knowledge, and the skill, thus integrating the affective brain, the cognitive brain, and the psychomotor brain in the behavior.

k) The Ultimate Source

With the transit of nature to Mother Nature, born is the Science of consciousness that deals with Nondual Consciousness and Mother Nature at the level of the Essence of the systems multiverse, the Source-field for everything and everyone. The apparent epistemological pluralism in science, humanities, and spirit is sourced from one and only One, the operating consciousness within the Essence of the Multiversity. Mother Nature operates as the mobile facet, the kinetic pole, the executive front of nondual consciousness. This Essence evokes the primordial vibration AUM, AUM, AUM from the union of Consciousness Mother Nature. Their dynamism spirals down as manifestations, becoming of nature-consciousness in a nested fashion (Figure 11).



THE NESTED SPIRAL BETWEEN THE SOURCE & THE OBSERVED NATURE

Figure 11: With the transit of nature to Mother Nature, the Source of Multiverse(s) is reached. The source is Consciousness-Mother Nature, also called the Essence of the systems Multiversity. The most primordial vibration emanates from spontaneous non-stop dynamics of Consciousness-Mother Nature, like Om, Om. Om......, the Mantra, the Information on the Divine, which is carried down in the spiral (which appears as nests on side view). This is the nested spiral pathway between the Source and the observed nature and between the "will" and the Event. The spiral appears Infinite on a cosmic scale, Infinite-Finite on a human scale, and minuscule on a cellular scale

I) The Algorithm from Consciousness to Energy and from the "Will" to the Event

Finally, we are in a position to describe the pathway from the "Will" to a Signal, and expand Albert Einstein's World to the level of the systems of apparently disconnected and independent multiple universe(s), sourced from the One and only One, the Essence of the Multiversity. Einstein although stopped investigation in science at the level of ZPE continued to say from his imaginative and intuitive mind on various occasions that he does not know God's Will! We are also reminded of George Wald, Nobel Prize winner in Physics, who said, "Consciousness gives us no physical signals. ... We have no way of identifying either the presence or absence of consciousness, let alone its content." What could be the narrative for the science of this other World, describing the emergence of the empirical science of matter, energy, and space-time from such a will!

To make a "Will" is a prerogative of consciousness. The signal is what is already articulated, and is observed. It has got into a form. In fact, a signal is a space-time construct of energy. The signal is converted into information and information is converted into a signal by operation of the mind! When there is no mind, there is no entry into the domain of information, and there is no conversion of information into signal! The pathway from Consciousness to Energy, and from the Will to the Event is shown in Figure 12.

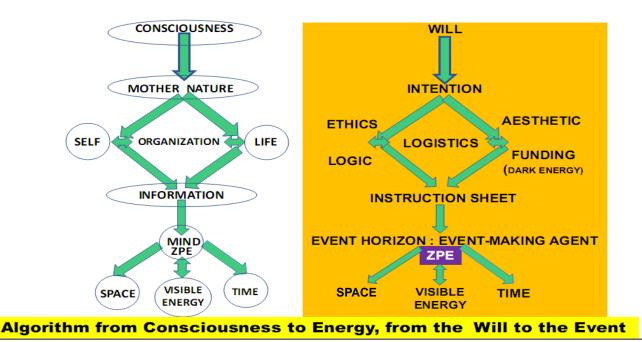


Figure 12: Consciousness is the Event-Manager. The "will" of consciousness is the letter of intent at the nest of Mother Nature. The Intention is passed on to both Self and Life, which maintain a tangled hierarchy between themselves. The Self decides on the Ethics and the Logic of the operation. The Life decides on the Aesthetics and Funding of the mission from dark energy. The Logistic of the operation is taken care of by both Self and Life, manifested respectively as Self-organization and Life-organization. With the ethics and aesthetics, logic and logistics, and proper funding from the inexhaustible resources of dark energy the instruction sheet is prepared and is handed over as Information to the Mind. The Mind conceives Information and delivers Space, Time, and Energy at the level of ZPE.

In the context of "Free Will", the will-maker is Free but the will, once expressed, is bound to the causality chain, an Artwork of the spiraling and nested nature!

III. Perspectives

We are reminded of Albert Szent-Gyorgyi, Nobel laureate in Medicine, who said, "A discovery must be, by definition at variance with existing knowledge" (2 June 1972, Letter to Science). While narrating twelve new ideas, which are at variance with existing knowledge, we have come across two landmarks as two event horizons in the context of extending the scope of science; (i) ZPE and (ii) the Boundary of the universe. The terrain beyond the boundary of the universe is least known. The terrain between the two event horizons is a lesser-known universe. The universe nested within the ZPE (Einstein's limited universe) is a better-known part of the entire terrain. With this narrative, we could recognize that we are at the threshold of several discoveries, at the gateway of multiple new doors of science. We might get into the technology of harnessing dark energy.

When we analyze several unexplained issues in the context of these twelve ideas and two eventhorizons, we lean towards a New Worldview, the Multiversal Worldview, which evolves and develops (Evo-Devo) accommodating science, humanity, and spirit!

Still, the question that remains unanswered is how consciousness asserts the supremacy of its will over self, life, mind, information, and matter, and is capable of stripping off their conditioned properties and dressing them up as and when necessary! The great wonder and the greatest hidden secret of how consciousness makes such a strong political statement by its will, make all of us humble and a student of consciousness!

References Références Referencias

- 1. Mukhopadhyay AK https://www.akmukhopadhyay consciousness.com/publications.php
- Qi Q, Hao W (2015) Supramolecular Organizing Centers (SMOCs) as signalling machines in innate immune activation. Sci China Life Sci 58: 1067-1072.
- 3. Bousso R, Polchinski J (2004) The String Theory Landscape. Sci Am 291 (3): 78-87.
- 4. Tegmark M (2003) Parallel Universes. Sci Am 288(5): 40-51.