

## **Concept of Reality**

“Life is the evolution of singularity of being out of the collective consciousness of everything, with the purpose to achieve the most diversified consensual truth through synthesized knowledge of being, that would self-sustain the procreative evolution of reality for eternity.”

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<sup>1</sup> **Arendse, P. April 2013. Concept of Reality. Pretoria, South Africa**

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### Abstract

In the essay entitled *Concept of Reality* the author probes for a comprehension of reality, the nature of its evolution, and if life is an orderly, evolving and continuous process with an innate consciousness of purpose.

The paper formulates a conceptual framework that describes how reality consciously create the evolutionary conditions for life through its own internal mechanisms of information and knowledge management systems that evolves into reality's consciousness of being.

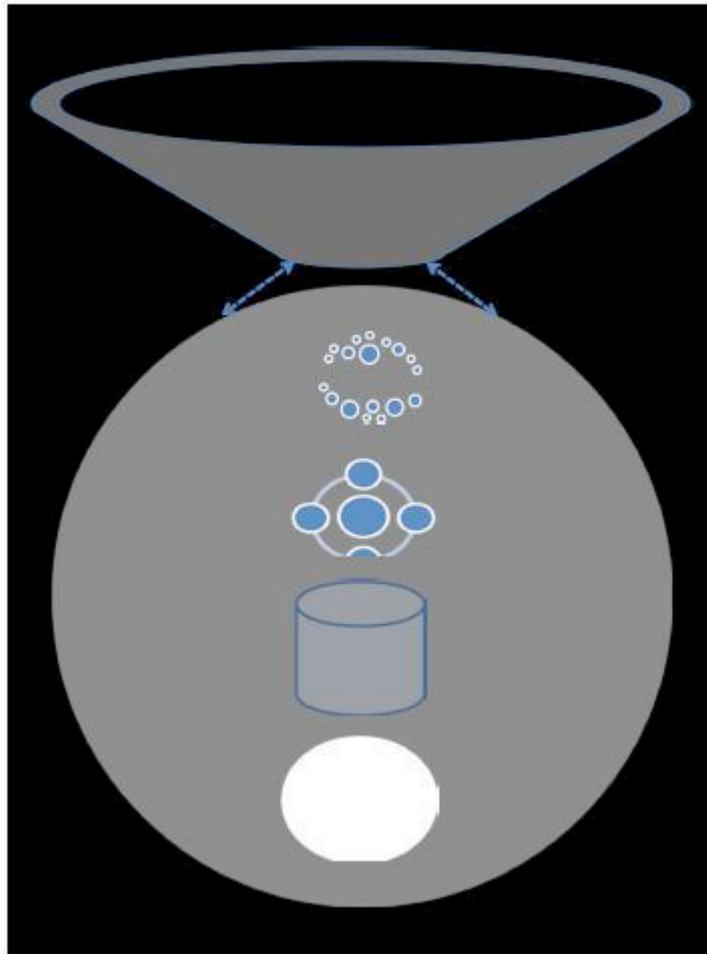
The work expounds a view that the cosmos operates as a bio-knowledge matrix that holographically photosynthesizes the different stages of reality, which informs the continuous evolution of higher states of consciousness within the cosmos.

The essay concludes with the thesis that reality is an integrated infinite information ecosystem with a hierarchical interconnected consciousness synchronized in unison of being, which supports a life system of evolutionary consensus seeking organisation for the manifestation of knowledge, achieved through harnessing the equality in 'free-will' of being into an harmonious union of diversified existence.

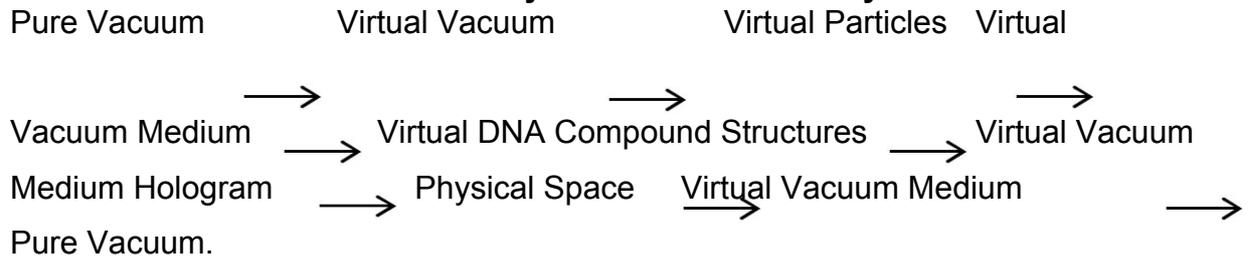
**Key Themes:** Philosophy, Quantum Vacuum Theory, Holographic Universe Theory, Theory of Knowledge

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## CONCEPT OF REALITY



### Evolutionary Mechanism of Reality



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# Concept of Reality

## Introduction

### Research Statement

Because 'it' knows what 'it' is (knowledge), 'it' thinks and acts within 'its' frame of reference (consciousness).

### Research Problem

1. What is 'it'?
2. How does 'it' know?
3. What is 'its' purpose?

### Research Methodology

The paper *Concept of Reality* was written through deductive interpretations from a literature review that explored the concept of space and its related environmental interpretations, which informed the essay's inductive inferences on a hypothetical ontology of reality.

The research methodology is qualified if we conceptualize knowledge of 'Reality', as tacit knowledge innate to all beings, which interprets 'all' being part of the whole, which is reality, and the whole, which is reality, is part of 'all'.

The essay was written using this tacit knowledge understanding as a gauge to infer conceptual interpretations from the literature review as referenced in the 'Notes' section of the essay.

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### Conceptualizing a cosmological intelligence system to the evolution of life

**Statement:** 'In the beginning of everything there was nothing'

**Problem Statement:** "If everything began from nothing, then how did everything come to be, because from nothing, as logically perceived, only nothing comes to be?"

#### Discussion

To be able to engage the 'Problem Statement of Nothingness', "nothing's" state of being needs to be perceived as "something", so that its 'somethingness' could be assessed in having evolutionary properties to evolve into the beginning of everything.

Cosmologically, nothing is the absence of anything that can be comprehended as something in our knowledgeable frame of reference, so by implication, if we cannot comprehend 'nothing' as 'something', then there would be nothing to comprehend.

In other words, nothingness, as a concept, is the absence of anything that is known with a specific identity. So if nothingness has no specific identity, how can it be comprehended as something?

If we should consider nothingness to be the grounding environment for the beginning of everything, and considering that the concept of nothingness means that there is no singularity of identity, then nothingness should be a collective of unidentified somethingness that cannot be identified even in a collective identity. So by implication, nothingness can be somethingness with no singular or collective identity in any form, and therefore known as 'nothingness'.

So what would be this 'somethingness' that 'nothingness' consists of?

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Perceptual logic leads that for something to evolve out of the unidentified contextual grounding environment of 'nothing', 'nothingness' would need to contain the elementary ingredients of the 'something' that would evolve from its grounding environment. Therefore if we can perceive nothingness as a grounding environment for anything to evolve into something, then nothingness becomes the fundamental milieu for everything, from which anything, with the potential for somethingness evolves into something with a singularity of identity. Nothingness as a milieu would therefore contain the potentialities from which reality and existence evolves. If reality, as we know it, consists of space, time, matter, energy, information, intelligence and consciousness, then 'nothingness' as a 'somethingness' would contain these elementary ingredients in its fundamental nature as well. It would be logical to propose then that the unidentified contextual grounding environment of 'nothingness' consist of a collective medium of different micro-elementary ingredients with no identifiable macro form, that has the potential properties for the evolution of space, time, matter, energy, information, intelligence and existential consciousness, and therefore existence. Nothingness, by this conceptual interpretation, in its fundamental nature then becomes the milieu in which everything comes into being. If nothingness is the milieu in which everything comes to be something, then it's now cosmological identified contextual grounding environment should then be the cosmos or outer space. Outer space therefore becomes the 'somethingness' 'nothingness' consists of.

A connecting question begging answer is: 'How can outer space be the somethingness nothingness consists of, because outer space has a singular identity, whereas 'nothingness' is perceived to have no identity or form?

Outer space in its primary form would suggestively be an absolute or pure vacuum in constant state maximum entropy, with a total chaos principle of uncertainty that has no beginning or an end, and is therefore in a complete state of nothingness. This pure vacuum in outer space consist of diverse elementary ingredients for everything that would come into existence in the physical realm of space, and because of its non-identifiable 'nothing' cosmic nature, is called dark matter. These diverse elementary ingredients of dark matter are kept in constant state of chaotic flux through dark energy, to enervate it from formulating any information content

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structure to spontaneously evolve into 'something' substances. Outer space, therefore, creates the needed macro environmental conditioning for these dark matter micro elementary ingredients to be in constant equilibrium flux with each other, through dark energy, in order to formulate, maintain and preserve its pure vacuum state of nothingness. Nothingness, which is dark matter, in this interpretative cosmic context of the pure vacuum, holds all the collective elementary ingredients essential for physical matter and its reality.

This constant state of chaotic equilibrium and neutrality of dark matter is maintained in a constant state of symmetrical order through dark energy at zero-point density in outer space, which creates no singular identifies of somethingness, and therefore are in a continuous state of equated fluxed identities. The dark matter in outer space therefore has no identities of somethingness in its macro constant state of entropy, which accounts for its pure vacuum state, void of any somethingness and therefore the complete nothingness in the somethingness called outer space.

So how does outer space formulate and maintain this macro-environmental balancing act of total equilibrium of equated fluxed identities in dark matter?

Out of the macro constant state of entropic symmetrical outer space order, the dark matter elementary ingredients of potentially everything in the physical realm, this being space, time, energy, matter, information, intelligence and consciousness, in a constant state of balance, evolves an opposing micro constant state of syntropy of elementary ingredients combining to evolve into something with a singular identity out of the non-identifiableness of everything in a state of nothingness. This micro syntropic process of elementary ingredients evolving into a state of 'becoming' stimulates the evolution of existence into a constant state of becoming into somethingness, out of the macro neutrality of 'everything' in entropic outer space.

This would suggest that outer space would need to have a universal consciousness of itself in what it ought to be on a macro-level and how it supposed to operate on a micro-level to preserve its identity. The obvious consequential to this is that the elementary ingredients of information, intelligence and consciousness in outer space, from its collective dark matter elementary ingredients of space, energy,

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information, time, intelligence, matter and consciousness, seem to have an elevated operational role of conglomerating the interaction of the other elementary ingredients into the chaotic equilibrium and symmetry of entropy. Information, intelligence and consciousness of outer space's entropic conditions would therefore seem to measure the capacity of outer space not to give meaning to itself by containing its degree of disorder. This entropic condition of outer space therefore maintain its pure vacuum state by decreasing its information, intelligence and consciousness entropy through increasing its macro knowledge systems of itself (information, intelligence & consciousness). Operationally, outer space would continuously increase space, energy, time and matter entropy on a micro-level, but would decrease information, intelligence and consciousness entropy on a macro-level (syntropic knowledge system increase).

Syntropic knowledge systems increase in outer space is a result of continuously interpreting dark matter space, energy, time and matter elementary ingredient fluctuations to maintain constant entropic chaos, as new interactions of dark matter ingredient elements continuously catalyses new information interpretations of the outer space environmental condition, enabling syntropy of the outer space system to allow for new knowledge systems of higher complexity in the pure vacuum of outer space retaining its entropy order system. This continuous transformational give-and-take interrelationship of entropy (chaos) and syntropy (evolution) maintains the perfect equilibrium and preservation of the pure vacuum of outer space.

Entropy therefore utilizes all operational intelligences gained from its syntropic knowledge systems relating to the dark matter elementary ingredients of space, energy, time and matter to bring about the corruption of any information connections between the elementary ingredients to maintain maximum chaos, while syntropy continuously interprets and restructure the higher knowledge systems in maintaining structural disorder of the outer space system. The syntropic intelligence of the universal chaotic system of outer space continuously survey the flux density of information connections between the elementary ingredients of dark matter within its microcosm to sense the flux densities of dark matter for compressed concentration, which indicates new information connections between the elementary ingredients of dark matter. It then curves the condensed dark energy density to form black holes in

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which the newly formed information connected dark matter elementary ingredients collapse, to maintain its chaotic equilibrium fundamental environment. This formation of black hole entropic processes in outer space purposefully and continuously decays the macrocosmic sphere of the pure vacuum by discharging the newly connected dark matter elementary ingredients of space, energy, time and matter into its syntropic microcosm environment; experiencing a cosmic menstruation process. It can therefore be interpreted that the syntropic process in essence is the gathering of information on operational activity in the microcosm of outer space, its structuring of this information into higher complex information structures during the entropy phase of outer space, which becomes the intelligence surveillance of the inner workings of the microcosm of outer space, and the knowledge of this intelligence becomes the conscious state of being of the macrocosm of outer space.

Information hereby becomes an elementary ingredient continuously at work to interpret the entropic environment to evolve syntropy in building intelligence structures to update the consciousness of being of the environmental state of the pure vacuum. The entropy of dark matter elementary ingredients of space, energy, time and matter in outer space, rather than destroying the primary system of the pure vacuum in outer space, aids its upwards evolution of complexity by continuously deconstructing the dark matter elementary ingredient information content that has evolved into new elementary ingredient connections in its context to maintain the required physical chaos that creates the conditions for the entropic disorder through dark energy in outer space. Syntropy on the other hand gathers these deconstructed dark matter elementary ingredient information content of space, energy, time and matter, and interprets it within appropriate intelligence structures that result in the creation of new macroscopic intelligence systems that aid the evolution of the pure vacuum's consciousness in outer space. Entropy and syntropy is therefore interrelated interactive self-preservation processes of the pure vacuum in outer space that diversifies the manner in which consciousness of being manifests itself by interpreting mutations in the pure vacuum and reinterpreting its upgraded context on the principle of self-regulation and self-organization. As a consequence, the pure vacuum state of outer space do not evolve all-over again from start continuously within the entropy-syntropy processes, but retain its consciousness of being and evolves to higher states of consciousness continuously.

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If information, intelligence and consciousness are macrocosmic rational activities, which codify microcosmic dark matter elementary ingredients of space, energy, time and matter, then it would seem to contain a singular differential form of energy that distinguishes itself from the other dark matter elementary ingredients of space, energy, time and matter, giving it an abstract feature of a virtual elementary ingredient with virtual energy. In generalising, this leads to a concept that information codifies energy, through a conscious medium, to develop knowledge that is constructed as a state of consciousness. In other words, outer space maintains its pure vacuum state through the operation of a virtual vacuum medium that codifies its continuous evolution towards higher pure vacuum states.

### **Discovering the cosmological mechanism to the organization of evolutionary consciousness**

The syntropic information, intelligence and consciousness codification constructs of outer space are done at a micro subconscious level within the macro consciousness of the pure vacuum of outer space; therefore outer space's knowledge codifications of consciousness are virtual functions with virtual energy operating in a virtual vacuum realm and interacting with the pure vacuum of outer space through a virtual vacuum medium.

The constant flux of dark energy at zero-point density in maintaining dark energy entropy in the outer pure vacuum causes a constant decay of the outer pure vacuum sphere, which causes the macrocosm to consistently disintegrate into microcosm elements that constantly feeds the syntropy process in the virtual vacuum. The virtual vacuum, the micro constant state of syntropy, operating on the subconscious level of outer space with virtual energy, gathers the discharged dark matter elementary particle information content of space, energy, time and matter from the outer pure vacuum macrocosm when it menstruates through its entropy black hole process, to ovulate the decayed dark matter elementary particle information within an appropriate intelligence structure that fertilizes in the spontaneous creation of diverse microscopic elementary ingredients of space, energy, time and matter,

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known as virtual particles, representing everything that comes into existence in the physical realm. These virtual particles transmit elementary ingredient information, generated through its electromagnetic field energy, into the virtual vacuum sphere through light waves, called photons. Photons create an infinite high concentration of information energy in the virtual vacuum that creates a virtual gravitational force, called the virtual vacuum medium operating with virtual vacuum energy, which photosynthesizes the photons into electromagnetic waves to formulate compound virtual genetic DNA structures of potential elements of physical reality before coming into physical existence. This photosynthetic compounding of virtual particles through virtual DNA structuring decreases the information energy density as the process of transmission and the formation of compound virtual particles through encoded virtual energy transform the self-generating virtual energy in the virtual vacuum into self-organized patterns of energy conservation in the virtual vacuum medium, which generates energy fluctuations with higher degrees of electromagnetic vibrations that allows for higher information order systems that require an increase in the spatial volume of the virtual vacuum. This increase in higher virtual DNA information order systems and its resulting energy fluctuations thermalizes the virtual vacuum medium to inflate and expand due to the radiation exchange between the different virtual DNA information orders. This virtual vacuum medium gravitational force facilitates the interaction of the entropic environment of the pure vacuum in outer space and the syntropic virtual vacuum inner space that gives rise to a gravitational push against the outer pure vacuum sphere for greater inner virtual vacuum space expansion.

The virtual vacuum therefore transforms pure dark energy at zero-point density in the outer vacuum into codified virtual information energy in the inner virtual vacuum through the production of virtual particles. The virtual particles are codified into photonic information waves that are quantified into electromagnetic energy that transforms virtual particles into electro genetically codified information to orchestrate the creation of electrochemical DNA particles with electromagnetic energy in the virtual vacuum medium. The virtual vacuum medium, operating with electromagnetic energy, facilitates the spontaneous self-organization of individual virtual particles with virtual information energy to inform the formation of virtual compound DNA system structures.

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The virtual vacuum inner space, within the pure vacuum outer space, conceives reality through virtual vacuum energy in sequencing the information waves of virtual particles through its virtual vacuum medium into intelligent virtual genetic coding patterns to formulate information content structures that have the potential to evolve into singular differentiated physical particles of space, time, energy and matter. Once these virtual particles are codified through the virtual vacuum medium and manifested as compound virtual DNA structures in the virtual vacuum, the fused interconnected information received from the different virtual DNA structures in the virtual vacuum medium evolves into a hologram of different electromagnetic waves according to the different virtual compound DNA structure energies making up the electromagnetic spectrum of light waves, gamma or x-rays, ultraviolet or infrared light or radio waves. The hologram area would integrate the whole of the 'virtual reality' containing all the interacting frequencies of the different waves of information from DNA structures to create a comprehensive virtual vacuum memory biosphere that acts as a virtual knowledge reference in manifesting the information coding events in the virtual vacuum medium, so that the virtual vacuum medium has a continuous evolutionary interactional relationship with the spontaneously created microcosmic virtual particles and its virtual macrocosmic DNA knowledge reference biosphere in the virtual vacuum. This virtual vacuum knowledge biosphere made up of all the memories of the virtual DNA compound formation events, plays itself out as interactive beaming of information light waves from the virtual vacuum medium into the hologram that facilitates dimensional relative activity between the different memories of the virtual DNA compound formation events to formulate a virtual knowledge system of actions and its consequences, which creates the consciousness of the virtual vacuum medium.

This centrosphere consciousness of the virtual vacuum medium formulates dimensional relativity knowledge of virtual DNA compound formations and interactions that creates a nucleic dimensional sphere of activity, called physical space, in the holographic knowledge reference biosphere in the virtual vacuum. Physical space, a radiation centric hologram, photosynthesises the virtual DNA compound structures to formulate and create a geo-metric physical reality consisting of space, time, energy, matter, information, intelligence and consciousness. This continuous radiated photosynthesis of virtual DNA compound structures into physical

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space from the holographic virtual vacuum medium develops a holographic knowledge epicentre that energizes and maintains the evolution of physical reality that would consist of transmitted holographic physical dimension elementary particles, which interchangeably is sustained by the continuous evolution of virtual reality in the virtual vacuum space. This virtual DNA knowledge reference memorizing intelligence hologram within the virtual vacuum medium interacting with the virtual vacuum, self-sustain the retention and continuous evolution of the virtual vacuum's consciousness to higher states of virtual information sequencing and virtual intelligent genetic coding of potential elements of physical reality.

### **Defining the cosmological social order of consciousness**

The virtual vacuum is therefore the womb of reality that creates virtual particles to formulate the virtual genetic coding of reality in its virtual vacuum medium. The virtual vacuum medium is the catalyst for coordinating knowledge that catalyses co-operative evolutionary activity amongst virtual particles responsible for DNA structure development and chemical reaction transformation that gradually transforms virtual reality into physical reality. This virtual information infrastructure in the virtual vacuum medium is the virtual knowledge codex that generates and sustains the evolution of reality. The virtual vacuum medium therefore operates as an intermediate holographic common reference with the purpose to regulate coherent synchronism within the microscopic environment of inner space and the macroscopic environment of outer space. This virtual vacuum medium holographic sphere develops a holistic dimensional interpretation of the virtual DNA compound structures to form a holographic nucleus space area, called physical space. This change of space time reality coordinates the evolutionary photosynthesis of 'virtual reality' into 'physical reality', therefore transforming virtual particles into atoms. These atoms are then stringed together according to the fused 'blue-print' virtual DNA structures in the virtual reality, lending it unique vibrations based on its DNA structure. And just like photons lending it to different light waves, so do atoms replicating the light wave energies into DNA string vibrations with each individual atomic part having in it, the innate virtual consciousness network, the image of the whole virtual reality, and

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building towards physically accomplishing it from individual atomic parts into a material whole.

Physical reality now contains all the information needed to reconstruct the virtual reality in its physical realm. Physical space, a hologram of atomic matter, synchronizes the virtual DNA compound structures to formulate and create a metric physical reality consisting of space, time, energy, matter, information, intelligence and consciousness, the genetic descendants of dark matter in outer space. Physical reality is therefore a geo-metric hologram in precise synchronization that reflects the continuous interactive evolutionary consciousness of chaos in outer space, the quantum of virtual space and the physical relativity of a metric physical space in perfect unison of being.

The virtual reality therefore presents itself as the 'blue-print future', and the manifestation of this 'virtual' reality in the physical reality represents the 'evolutionary present', progressing towards the 'virtual' reality blue-print. The continuous interaction of the future and present in the virtual vacuum knowledge biosphere, evolutionary influences the 'virtual blue-print' as the three dimensions of reality: one, the dark matter layer that has no identity or form, called the pure vacuum or outer space; two, virtual reality that propagates the blueprint for physical reality through the virtual vacuum medium to form a fused interconnected electromagnetic DNA wave structure of reality; three, the physical reality that produces physical matter through the propagation of atoms that combine in many different molecular permutations to produce the hundreds of sub-atomic particles and chemical elements, continuously interact through the virtual vacuum medium.

Therefore the state of consciousness of every virtual particle to be created by the ovulating syntropic virtual vacuum reflects the contemporary state of the virtual vacuum medium in relation to the contemporary state of the entropic pure vacuum in outer space and the contemporary state of the physical space, and therefore each virtual vacuum particle created by the virtual vacuum has innate contemporary genetic intelligence of its interrelated pure vacuum, virtual vacuum and physical space environment.

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The virtual vacuum medium therefore represents the holographic photosynthesized genetic DNA subtext of reality, which unfolds continuously and interactively with the syntropic implicit consciousness of the virtual vacuum and the explicit entropic consciousness of the pure vacuum in outer space.

The continuous menstruated evolutionary cycle of the macroscopic entropy of pure space is therefore catalysed by the virtual vacuum medium energy that interprets the quantum interactions of communications among quantum particles in the ovulating microscopic context of the syntropy environment of the virtual space that develop virtual DNA structures and that of physical space, a hologram, which synchronizes the virtual DNA compound structures to formulate and create a metric physical reality. Its therefore the continuous interpretative functions of the virtual vacuum medium holographic knowledge biosphere that activate the timing of the menstruated evolutionary cycle of the macroscopic mutations in pure space to agitate flux densities of dark matter into the formation of black holes that ovulate elementary dark matter ingredients as and when needed in the most appropriate environmental conditions and in the most suitable consciousness context, which continuously activates the regeneration and evolution of reality.

The virtual vacuum medium could therefore be interpreted as the subconscious scenario builder of physical reality that synchronizes the compounding of virtual particles, through the virtual DNA structuring process in the virtual vacuum, which has the most realist possibility of evolving into something in physical space.

### **Understanding the cosmological framework for sustainable evolution of reality**

Physical knowledge and its regenerative evolution, which includes human knowledge, stored within physical DNA compound structures, is part of an interconnected and interacting living network of information processing and communication exchange within the physical realm sphere for life's physical manifestation to evolve harmoniously within context of its broader interconnected and interactive virtual and pure vacuum ecosystems.

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The physical DNA compound structures in a living cell interact in this open living network of life, exchanging information and receiving inputs from within its physical form and diffuses information from its physical form into the physical environment and interpreting this virtual information within its holographic access to the virtual vacuum medium knowledge biosphere that results in physical knowledge creation processes through DNA memory structuring.

DNA memory structuring stores these knowledge creation processes to develop a network of cognitive patterns in organizing information hierarchies of intelligences into an holistic consciousness that interact and perceive the physical environment at different cognitive levels as one organism to fulfil the ability in managing the complex information processing systems in the physical realm that continuously evolve within its own broader physical sphere. This unconscious physical action of memory structuring and storing, acts as a reference guide to conscious decision-making process that wills the most appropriate physical action required within its contextual environment from its referential context of the subconscious intelligence, which is called the 'free will' agency of consciousness that is also the premise of sustained survival of physical life.

Information therefore exists everywhere as a fundamental virtual potentiality, and is manifested through consciousness of being that acts as a processing medium of translating the virtuosity of information into physicality within the appropriate circumstantial ecological environment of the being's consciousness. This makes physical reality an interpretative environment that is not absolute, but a discretionary open system of sustainable evolutionary consciousness development.

It would therefore be interpreted that the purpose of physical being is to compound the individual atomic consciousness into a holistic consciousness that reflects the holographic knowledge codex of the virtual vacuum medium consciousness. Because each individual atomic consciousness has an innate 'blue-print' of the virtual vacuum medium consciousness, each individual atomic consciousness has the 'freedom of will' to intellectually interpret this 'blueprint' virtual reality uniquely, and assess how its physical actions can synchronize with the physical actions of

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other consciousness to formulate the holistic consciousness of the virtual vacuum medium 'blue-print' consciousness.

It is therefore the enlightenment responsibility of each individual physical consciousness to figure out intelligently what its conscious nature is in relation to the universal synchronization of action into the virtual 'blueprint' whole, because this virtual 'blueprint' whole was graphically formulated in the virtual vacuum medium hologram space as an holographic virtual architectural design, and has been atomized in physical space as individual building blocks in manifesting the blueprint's virtual whole in physical reality.

So existence becomes an ever evolving experiment of successes and failures in figuring out this synchronization of physical conscious action in building towards the universal consciousness of the virtual vacuum medium architecture of reality that is tacitly innate in all reality, but through life experiences (information, intelligence, knowledge and consciousness), becomes explicit as a synchronized consciousness part of the holistic consciousness of life.

Physical reality is therefore the physical manifestation of the virtual subconscious of reality, and has the innate conscious environmental characteristic of 'free-will of determination', as all physical beings are consciously equal in nature because all has inherited the genetic 'blue-print' of reality, and therefore all physical beings has the latent potential capacity to manifest the genetic 'blue-print' of reality through its 'equality of being' and related 'freedom of will'.

Physical life, a multi-levelled system of hierarchical structures of increasing complexity each generating a higher order of intelligence that coordinates the activities of lower order activities consisting of parts that make up the whole, but with each part a whole in itself with an innate self-preservation tendency for individual autonomy when interacting within a greater whole, is in a constant state of zero-point energy equilibrium between the constant state of entropy (decay / aging / sickness / death) and opposing syntropy (state of repair / instinct of survival / procreation / longevity).

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This physical composition within physical reality lends itself to that of a mortal nature, as it's confined spatial order of physical structure is made up of material components of continuous entropic tendencies of decay and death, which equivalently are inclusive of syntropy activities of self-preservation, regeneration, and procreation, which in perfect balance maintains the integrity of the overall physical system, which as a whole interacting with its broader environment also goes through the same balanced influences of entropy and syntropy as well, with death as its ultimate physical timespan limitation of its overall system', as its sub elements experiences the same lifespan threshold limiting phenomenon.

Physical reality is therefore bound by a mortality lifespan as its essence is contained within individualistic singularity that evolved out of the consciousness of everything of which the collective consciousness has a virtual property that is infinite that builds evolutionary into continuous upward higher intelligences that is virtually stored in the virtual vacuum medium of outer space that does not decay nor be destroyed, but is forever accumulative in nature. Although individualism drives the syntropic evolution of reality, virtual and material, its confined structural boundaries of physicality within its physical structure of its physical reality, as opposed to the virtual limitless of collective consciousness of the virtual vacuum medium, restricts its direct regenerative interaction with the broader evolutionary sphere of outer space and the virtual vacuum medium, and therefore the limitation of degeneration through aging and inevitable physical death, but its consciousness that connects with the broader physical consciousness of its nature, which interacts with the virtual vacuum medium, is infinite and immortal. So individual physical nature has a lifespan and is mortal, but its consciousness, which is made-up of its intelligence and associated memories within its lifespan, is immortal, as it continuously interacts with the virtual vacuum medium, which is infinite by nature, and therefore stores the individual physical nature's consciousness within its realm of infinity, and which individually contributes to the continuous evolution of the infinite virtual vacuum medium's collective consciousness. Therefore physical death is the evolutionary transformation of individual singularity in its physical nature back into the virtual collective consciousness of everything in the virtual vacuum medium of outer space.

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Information energy, the primary agent energy source for everything, therefore cannot be destroyed nor be created as its infinite and all-pervasive in nature; it catalyses dark energy into virtual energy and then into physical energy and cyclically reprocesses physical energy back into virtual energy and then back into dark energy, as it builds through this recurring cycle into more complex intelligences and immortal consciousness that infinitely drives the evolution of reality, which lends physical being to be a concentrated form of information energy. Physical life's material reality is therefore a replica of the virtual interplay of entropy and syntropy in the virtual reality of outer space and its interactive representation within the virtual vacuum medium.

For physical reality to integrate into the infinite reality of immortality, its physical manifestations of the virtual subconscious needs to become more explicitly conscious through its innate consciousness of reality by conscious determination of free-will to physically manifest the virtual genetic 'blue-print' of reality. As free-will of determination without the virtual 'blue-print' guide causes a physical disjuncture between the three dimensions of reality; pure vacuum, virtual vacuum and physical space, where the pure vacuum and the virtual vacuum integrate to design physical reality, but that physical reality, because of its innate 'free' nature, does not automatically integrate with these two reality spheres, accept on a mental conscious plane through the virtual vacuum medium. This mechanical disjuncture causes the dominance of entropy within the physical sphere which seeks a continuous corruption of environmental dynamics just as in the pure vacuum reality. But if synergy is sought between the three spheres of reality, the infinite self-perfecting syntropic energy of the virtual vacuum also needs to be manifested within the physical reality alongside the virtues of the virtual vacuum medium so that the virtual and physical reality integrate as one organic system.

Physical life is therefore also about finding the appropriate framework of morality that would harness the innate equality of being and how all living species relate to one another through the expression of 'free-will' in determining the manifestation of the virtual vacuum medium consciousness in physical reality, which replica the virtual vacuum's syntropic dynamics of building a harmonious synchronized virtual reality of life that evolved into physical life, hereby conceptualizing reality as an integrated

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infinite information ecosystem with a hierarchical interconnected consciousness that is synchronized in unison of being.

## Conclusion

The essay started with a concept of 'it' as a problem: 'what is it'; with a hypothesis: 'because 'it' knows what 'it' is (knowledge), 'it' thinks and acts within 'its' frame of reference (consciousness).

This vague overture rightfully introduces the subject matter of the essay as the author starts with 'it' with no specific identity, which is the reason the first concept section of the paper, namely: '*Conceptualizing a cosmological intelligence system to the evolution of life*', starts with the concept of 'nothingness': 'In the beginning of everything there was nothing'.

The essay proceeds from this 'nothingness' premise and conceptualized an intelligence system in the cosmos that guides an inevitable evolutionary process with a purpose to manifest a reality. Reality has its fundamentals rooted in outer space, a pure vacuum, in constant state maximum entropy, with a total chaos principle of uncertainty that has no beginning or an end.

This 'nothingness', the essay informs, consist of diverse elementary ingredients for everything of potentialities that would come into existence in the physical realm of space, which is in a constant equilibrium state of chaotic flux that maintains and preserve outer space's 'non-identity' pure vacuum state of nothingness. Outer space therefore, has no identities of somethingness, which accounts for its pure vacuum state, void of any somethingness and therefore the complete nothingness in the somethingness called outer space.

But for a reality to be formulated, outer space has an integrated opposing syntropic system operating within its internal processes that consciously endeavour to create individualized identities from the identified potentialities to evolve into something in

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the realm of reality. Reality therefore becomes a produce of opposing but integrated systems, entropy & syntropy, that catalyses new information interpretations of environmental conditions that enables a continuous development of new knowledge systems of higher complexity that formulate the consciousness of outer space as 'being'.

This manifested reality of outer space consists of an individualization process, called syntropy, that evolves out of the collectivized cosmic system, called entropy, from which different identities of potentialities for the creation of reality develops. These different individualized potentialities become the intelligence system processes through which reality would evolve into 'being'.

Information, and its interpretations by the outer space intelligence processes that produces knowledge, becomes the primary source of consciousness development to self-regulate and self-organize the becoming and manifestation of reality, which introduces the second section of the essay, namely: *'Discovering the cosmological mechanism to the organization of evolutionary consciousness'*, which is in answering the essay's question: 'How does 'it' know?'.

In this section the essay espouses a view that outer space has an inner virtual vacuum that acts as a womb to reality that is impregnated by discharged elementary particles from the outer space area to the inner virtual vacuum when outer space goes through an menstruation phase, which fertilizes the virtual vacuum womb to spontaneously create virtual particles that would represent the individualized identities with the potentialities to evolve into something in the realm of reality. These virtual potentialities are incubated through holographic photosynthesis into virtual compound generic DNA structures of potential elements of physical reality before coming into physical existence. The holographic virtual vacuum area system integrates all virtual compound generic DNA structure information to create a virtual knowledge reference biosphere that evolves into the consciousness of the virtual vacuum, which self-sustain the retention and continuous evolution of the virtual vacuum's consciousness to higher states of virtual information sequencing and virtual genetic DNA coding of potential elements of physical reality.

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This holographic virtual information and knowledge system of the virtual vacuum consciousness develops a holistic dimensional interpretation of the virtual DNA compound structures to form a holographic nucleus space area, called physical space, which photosynthesizes virtual reality into physical reality. This change of space time reality transforms virtual particles into atoms and introduces the third section of the essay, namely: *'Defining the cosmological social order of consciousness'*, which seeks the constant in knowledge creation and consciousness evolution between the different spheres of virtual and physical reality.

This section of the essay suggests that in maintaining a consistent cosmological consciousness system the virtual consciousness acts as a virtual genetic DNA subtext for its manifestation in physical reality, hereby becoming the subconscious of physical reality that evolves interactively within the consciousness of outer space.

In maintaining this integrated consciousness of being throughout the cosmos, the essay concludes in its fourth section, namely: *'Understanding the cosmological framework for sustainable evolution of reality'* that asks the question: What is the purpose of life. It discusses that the cosmic consciousness is an open interchangeable knowledge network of life that makes 'being' an interpretative information ecosystem that is not absolute, but a discretionary open system of sustainable evolutionary consciousness development.

The essay concludes with the thesis that reality is an integrated infinite information ecosystem with a hierarchical interconnected consciousness synchronized in unison of being, which supports a life system of evolutionary consensus seeking organisation for the manifestation of knowledge, achieved through harnessing the equality in 'free-will' of being into an harmonious union of diversified existence.

The essay's problem statement is hereby answered by replacing the unknown identity of 'it' with that of 'life' and stating: 'Life is knowledge, and acts consciously within its hierarchical integrated consciousness of being. The essay's initial 'It' therefore evolves into the identity of reality in a constant process of 'becoming' and thus the interpretation of 'it' to be that of 'life' with properties of evolution, knowledge and consciousness.

## Concept of Reality

### References & Notes

1. **Berghofer DE, 2004. Creating a Knowledge Society: The Building Blocks of a New Transcendent Humanity, Desmond E. Berghofer, President, Creative Learning International, Vancouver, Halifax, Canada, May 7, 2004**

([http://www.gesci.org/assets/files/Knowledge%20Centre/KS\\_Trascendent\\_Society.pdf](http://www.gesci.org/assets/files/Knowledge%20Centre/KS_Trascendent_Society.pdf))

- 1 Information transforms probability into actuality.

2. **Bladon L, 2007. Esoteric Theory of Everything, Lee Bladon, 2007.**

(<http://www.esotericscience.org/articles/5a.pdf>)

1. The pure vacuum has pure energy / dark energy.

3. **Blomquist RD, 1991. Integrated Theory of Intelligence, Roger D. Blomquist, 4<sup>th</sup> Edition, ISBN: 0-9754422-0-1, Supraconsciousness Network, USA, March 1991**

(<http://www.supraconsciousnessnetwork.org/downloads/ITI.pdf>)

- 1 Information entropy is the degree of disorder in a closed system undergoing inflationary expansion, such as universes, it measures the capacity to convey meaning, and decreases as the universes' inflationary expansion increases.

- 2 The universe therefore undergo increasing heat entropy (energy lost), but decreasing information entropy (knowledge gain).

- 3 Organic systems create order out of chaos and are negatively entropic (both heat & information), with a net gain of information, until death. Higher entropy implies a random, disorganized, disordered system with equiprobable,

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independent events and has potential for acquiring and storing information. Lower entropy implies a non-random organized, ordered system with a divergence from equiprobable, independent events, and with stored information.

- 4 Energy fluctuations within the surrounding environment of an open system cause perturbations that result in the system to experience entropy which causes chaos. This chaos enables new interactions of elements of the open system which catalyses syntropy within the system that allows new interactions and recombination on a higher order of complexity in the system.
- 5 Cosmic systems undergo natural destruction and resurrection of itself to perfect its preservation.
- 6 The continuous transformational interrelationship of involution (entropy) and evolution (syntropy) within the cosmos comprise the reciprocal maintenance of the universe.
- 7 Entropy utilizes all known physical laws to bring about the destruction of any and all complex information structures to maintain chaos, while syntropy competes within this process to restructure knowledge systems in maintaining structural order of the cosmic system. It can be interpreted that syntropy is information, and its evolution into more complex information structures becomes intelligence. It seems that as soon as a chaotic system makes informational connections to intellectually deduce its environmental construction, it automatically deconstructs to maintain its chaotic fundamental environment. Syntropy memorizes the deconstruction strategies of entropy and overcome this continuous deconstruction by building information storage structures that can be restructured within the deconstruction process of the cosmos to recreate its environment on a higher level of intelligence which continuously expands the surrounding cosmic environment. Entropy finds it difficult to deconstruct the higher information constructs of syntropy as the scenarios for destruction would not be the same as previously and as a

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consequence of entropy not memorising its destruction strategies due to not having intelligence, it continuously loses the deconstruction construction cycle of cosmic evolution, and therefore syntropy has a upward evolutionary expansion of the cosmos.

- 8 Entropy causes syntropy to stimulate evolution of the cosmos, and is therefore interrelated although opposing processes in the cosmos.
- 9 Space, the cosmos, is the plenum of everything that comes into existence.
- 10 Pure space is the outer space that is the total vacuum, void of matter, energy or intelligence.
- 11 Information is a universal principle continuously at work to interpret the chaotic entropic environments to evolve in becoming syntropic in nature to build intelligence structures and this working is found in all organic and inorganic systems at all levels of existence.
- 12 The dissipation of large scale syntropic information structures decaying into smaller information units creates the uniform entropic disorder; the reconnection of these smaller information units develops more complex information structures that results in the creation of new macroscopic intelligence systems.
- 13 Entropy, rather than destroying the primary system, aids its upwards evolution of complexity by destroying information constructs that has become redundant, while syntropy reorganizes the deconstruction process and reconnects it with more appropriate complex information structures that aid the evolution of the system within its continuous evolving environment.
- 14 Entropy and syntropy are interactive self-preservation processes of cosmic systems.

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- 15 Entropy deconstructs information, while syntropy constructs intelligence from deconstructed information. Intelligence becomes information through the entropic process that identifies intelligence structures that doesn't fit the evolving external environment, therefore it deconstructs the intelligences of the system into information, which then in turn are reconstructed by the syntropic process of the system into new intelligence connections within the cosmic system to fit into the external environment, which follows the same entropic and syntropic processes as well. This opposing interrelated system processes "diversify the ways that intelligence manifests itself by inducing mutations and eliciting an anti-entropic repair process based on the principle of self-organization.
- 16 Entropy and syntropy is a fundamental property of the cosmos and this mechanism is copied to all evolving systems from its space.
- 17 In the beginning there was one uniform homogeneous basic substance without any form throughout the cosmos with a high amount of chaotic energy and extreme heat.
- 14 Physical reality is but different manifestations of the same basic energy substance of the cosmos.
- 15 Syntropy, the creative process property inherent in the basic energy substance of the cosmos has been the force of its evolution from the very beginning of space and the cosmos to its expansionary processes into physical existence.
- 16 Space-Energy-Information-Time-Intelligence-Matter-Consciousness as an interrelated substance is the fundamental ingredients forming the basic fabric of the cosmos, and is interdependent as a system in itself, and in complete unison, harmony and stillness, is described as in a state of nothingness, the pure vacuum.

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- 17 The pure vacuum therefore contains the potentiality for all forms of the particle world and its evolutionary Space-Energy-Information-Time-Intelligence-Matter-Consciousness physical world existence.
- 18 The intelligence model of the cosmos is inherent in the physical consciousness of matter.
- 19 Space-Energy-Information-Time-Intelligence-Matter-Consciousness as an integrated system evolved from the same premise in the cosmos, expanded at the same inflationary rate and maintains the same evolutionary mechanics throughout.
- 20 Entropy and syntropy are two opposing processes occurring throughout existence which influences all things to degenerate and continuously reinvent itself.
- 21 As matter-energy continuously undergoes entropy at an exponential rate, intelligence in turn evolves to states of increasing complexity. Higher intelligence requires more complex matter-energy structures. This is acquired through entropy of the base fabric of the cosmos, namely Space-Energy-Information-Time-Intelligence-Matter-Consciousness, which breaks down into information through the entropic processes and is recreated into more complex arrangements through the syntropic processes into intelligence of the whole system of Space-Energy-Information-Time-Intelligence-Matter-Consciousness.
- 22 Information is the measure in non-uniformity of chaos in the entropic state of the cosmos, and evolves into intelligence when order is reached through the syntropic state of the cosmos. It can be deduced that intelligence as a substance of the cosmos does not lose its overall knowledge when it dissipates through the entropy processes, as the reconnection of these intelligences of information is reconnected into more complex higher intelligences and consequently higher levels of cosmos substances,

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therefore the cosmos doesn't evolve all over again, but retain its knowledge base and grows from it more intelligently.

- 23 Information seems to have the characteristic of differentiating itself from the basic fabric of the cosmos as an objective substance which measures order in chaos, and the springing forth of virtual information particles are when the basic fabric of the cosmos is undergoing particle connections that develops more complex information connections within the basic fabric of the cosmos and when it vanishes back into the basic fabric of the cosmos it established intelligences in this environment to create order out of the chaos of the cosmos.
- 24 Space-Energy-Information-Time-Intelligence-Matter-Consciousness is the ground for the existence of everything.
- 25 Open pure space is the total vacuum, void of Space-Energy-Information-Time-Intelligence-Matter-Consciousness.
- 26 Closed space, contains Space-Energy-Information-Time-Intelligence-Matter-Consciousness.
- 27 Syntropy is a linear system where its intelligence as a whole is equal to the sum of its parts in Space-Energy-Information-Time-Intelligence-Matter-Consciousness, by contrast, entropy is a non-linear system where the holistic intelligence of Space-Energy-Information-Time-Intelligence-Matter-Consciousness is broken down into information intelligences of each segment of Space-Energy-Information-Time-Intelligence-Matter-Consciousness which does not hold the holistic intelligence individually, but is differentiated within each own sphere. And because of its disintegration as an holistic whole, the basic fabric of the cosmos dissipates into the chaotic environment of entropy, until new information connections can be made between the different individualized spheres of the fabric of the cosmos through virtual information particles seeking reconnections of the

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individualized intelligences of the basic fabric of the cosmos into a new holistic intelligence and interrelated Space-Energy-Information-Time-Intelligence-Matter-Consciousness system of the cosmos.

28 Entropy endows any system with the random element of freedom to explore new and alternative mechanisms, structures and systems with greater complexity to sustain its exponential preservation and evolution.

29 Photons are particle wavelike entities that make-up the electromagnetic spectrum and appear as light waves, gamma or x-rays, ultraviolet or infrared light or radio waves that act as information particles with information energy between interacting particles.

30 The physical vacuum creates particles.

31 “Photons are particle and wavelike entities that travel at the speed of light making up the electromagnetic spectrum, depending on their energy level appear as light waves, gamma or e-rays, ultraviolet or infrared light or radio waves. When virtual, they act as messenger photons between interacting particles such as electrons whenever energy is being exchanged”.

32 “Photons, which are both wave-like and particle-like objects, carry energy, the level of which is directly related to their frequency. They comprise the electromagnetic spectrum and can exist as radio waves, infrared waves, light waves, ultraviolet waves, X rays and gamma rays. All of the above travel at the speed of light. Their energy levels are relatively low in the radio wave part of the spectrum and continuously increase up to the gamma ray region. Each photon carries a discrete amount of energy in specific quantities referred to as quanta”.

33 Electromagnetic fields structure matter by imposing organization, and pattern molecular association.

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34 Hierarchy of Birth to Death:

- i. Collective Consciousness
- ii. Collective Subconscious
- iii. Virtual Energy
- iv. Virtual Information
- v. Virtual Individual Birth
- vi. Virtual Individual Consciousness
- vii. Electromagnetic Energy
- viii. Electromagnetic Information
- ix. Photons
- x. Light
- xi. Time
- xii. Electron
- xiii. Atom
- xiv. Molecules
- xv. Protein
- xvi. Cells
- xvii. Matter
- xviii. Ageing
- xix. Cells Dying
- xx. Protein Decrease
- xxi. Molecules Decrease
- xxii. Atom Structure Decrease
- xxiii. Electron Exchange Decrease
- xxiv. Photons Carrying Information Decrease
- xxv. Energy Decrease
- xxvi. Individual Consciousness Decrease
- xxvii. Death
- xxviii. Collective Consciousness Increase

35 Virtual particles process vacuum energy into primary elements of matter.

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- 36 The virtual vacuum, through the continuous production of virtual particles, produces an infinite high concentration of information energy. This information energy, when codified, decreases the information energy density and allows the evolution of identity through DNA structure development which increases the spatial volume of the virtual vacuum as the information energy density is being manipulated into higher order systems.
- 37 Virtual DNA structures are concentrated virtual energy that is the building blocks for matter, subatomic and atomic particles, that is produced in the catalyts virtual vacuum medium where quantum fields interact.
- 38 We live in a universal mind, and the conscious human mind is an extension of the universal conscious mind.
- 39 Each individual consciousness contributes to the universal memory, as the universe expands its spatial volume it allows room for continued storage of new memory both throughout the entire cosmos as well as within each individual.
- 40 Intelligence gives form to energy.
- 41 Intelligence cannot control high density energy, that's why in the beginning when the energy density was high, there was chaos, as the energy density dissipated through information exchange that developed into DNA structures that put form to energy; energy is in this way contained as intelligence.
- 42 With the dissipation of energy into DNA structures, the heat associated with free energy is also contained as protein within the DNA structures, thus energy and heat entropy increases with the formation of DNA structures, intelligence and the widening of spatial space through the increase in syntropy.

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- 43 Syntropy therefore decreases entropic chaos in the macroscopic environment, but increases energy entropy and increases information syntropy in the microscopic environment.
- 44 The universe in its evolution is becoming more materially and physically complex and more orderly as syntropy increases as evolution increases.
- 45 Macroscopic information entropy breaks down into microscopic information that is reorganized from the microscopic sphere up towards higher organized complex forms that influences the macroscopic sphere's syntropic evolution.
- 46 Chaos can never give rise to spontaneous order. *So how does entropy give rise to syntropy?* The holistic chaos macro environment dissipates as a result of perturbed energy fluctuations in the entropic macrocosm, which causes it to fall apart. This dissipation of macrocosmic particles through entropy allows new interactions and recombination through syntropy.
- 47 Information informs the material world, as genes instruct the cell machinery to build an organism.
- 48 Dark energy in the outer pure space environment needs to dissipate and fall apart to give rise to virtual vacuum space energy in the inner virtual environment of space.
- 49 Intelligence informs the form of matter-energy, the higher levels of intelligence of an environment would influence the complexity development of matter-energy.
- 50 Intelligence is a property of space, as even while particles undergo continuous entropy, the identity of the space stays the same.

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- 51 Consciousness is an attribute of intelligence; consciousness allows for self-awareness, which is a prerequisite for perceived existence.
- 52 Every system stores information as memory, the more complex the system, the greater amount of information it contains. A great deal of stored information is inherited and programmed into DNA structures.
- 53 The virtual vacuum medium's fluctuated energies create a vibratory environment of micro-warped space without demarcating boundaries with a holographic storage of memory.
- 54 The virtual compound DNA hierarchy structures of increasing complexity of higher order intelligence in the virtual vacuum medium transmutes into inorganic DNA hierarchy structures, which through its hierarchical intelligence evolution evolves into organic DNA hierarchy sequences.
- 55 Syntropy is the self-organizing force behind all living systems which drives organisms to become more complex with intelligence of its environment to sustain its self-preservation and continuous evolution to higher order formation.
- 56 The evolution to higher order formation establish different levels of evolutionary thresholds such as information evolving into energy, which evolves into matter and matter evolving into consciousness, and consciousness evolving into collective consciousness.
- 57 Each organism share the primal balance characteristics of entropy of the outer vacuum and syntropy of the interrelated inner virtual vacuum as it strives for evolutionary self-preservation within the entropy process of decay, leaving it in a constant state of relative equilibrium.

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- 58 Physical space will encounter an increase in spacial expansion to allow for the evolution of higher order systems that causes a decrease in energy density and heat with the increase in information as more and more DNA structuring takes place.
- 60 Photons are particle and wavelike, and appear as light waves, gamma or x-rays, ultraviolet or infrared light or radio waves.
- 61 Atoms are stringed together according to the fused virtual DNA structures lending it unique vibrations based on its DNA structure.
- 62 Just like photons lending it to different light waves, so do atoms replicating the light wave energies into DNA string vibrations.
- 63 The beginning of the universe replicates the pure vacuum's singularity state of homogenous highly energized undifferentiated substance without any recognizable form but with the inherent potential to evolve into the complex systems of the universe observed.
- 64 The universe represents a sum total of every type and all interactions and every atomic energy interchange and affects every other interchange.
- 65 The universe will continue to undergo evolutionary change leading to systems of increasingly greater complexity resulting in the structuring of forms richer in information.
- 66 The rate of evolutionary change of the universe occurs exponentially in accelerated fashion over time.
- 67 "The exploration of the subatomic world...has revealed the intrinsically dynamic nature of matter. It has shown that the different constituents of atoms, the subatomic particles, are dynamic patterns which do not exist as

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isolated entities, but as integral parts of an inseparable network of interactions. These interactions involve a ceaseless flow of energy manifesting itself as the exchange of particles; a dynamic interplay in which particles are created and destroyed without end in a continual variation of energy patterns. The particle interactions give rise to the stable structures which build up the material world, which again do not remain static, but oscillate in rhythmic movements. The whole universe is thus engaged in endless motion and activity; in a continual cosmic dance of energy."

- 68 As the universe expands, energy has congealed into matter in increasingly complex states.
- 69 The universe's evolution increases heat entropy and decreases information entropy.
- 70 "Through the evolutionary process, macroscopic structures undergo entropy with the breakdown of macroscopic information into microscopic information. The breakdown products, as they are reorganized into more highly organized complex forms, result in a continual net gain of useful information within each separate isolated open system."
- 71 The greater amount of stored information an organism has, the lower its state of entropy.
- 72 "The big-bang event is not seen so much as an explosion beginning from a definite center, but more like a carefully orchestrated expansion which occurred simultaneously everywhere, filling all of space from the beginning and with every particle of matter receding from every other particle."
- 73 "Quantum theory suggests that the universe is not simply a collection of physical objects, but is rather a complicated web of relations between the various parts of the unified whole. "Quantum inter-connectedness" is continually being observed in the study of quantum theory. Non-local

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connections have been found when observing seemingly local events. There appear to be instantaneous connections to the universe as a whole. The Einstein-Podolsky-Rosen (EPR) experiment illustrates the non-local connections and supports the concept of instantaneous transfer of information over great distances without any expenditure or transfer of energy. The spin of one electron can "instantaneously" affect the spin of another electron over a great distance. These non-local connections with instantaneous communication occur in both organic and inorganic molecules. Subatomic particles within all types of molecules appear to instantaneously know what decisions are made elsewhere."

- 74 "Nature must be interpreted as matter, energy and information. Information was seen as an agent that informs the material world much as the messages of the genes instruct the machinery of the cell to build an organism. Information was also seen as a universal principle at work in the world, giving shape to the shapeless."
- 75 Physical existence is also plagued by entropy (aging / sickness / death) and syntropy (instinct of survival / procreation / longevity).
- 76 The body is in a constant state of zero-point energy equilibrium between a constant state of decay and opposing state of repair.
- 77 Life is a multi-levelled system of hierarchical structures of increasing complexity each generating a higher order of intelligence that coordinates the activities of lower order activities consisting of parts that make up the whole, but with each part a whole in itself with an innate self-preservation tendency for individual autonomy when interacting within a greater whole.
- 78 Consciousness and its interrelated intelligence has a virtual property that is infinite as it builds evolutionary into continuous upward higher intelligences that is virtually stored in the virtual vacuum medium of outer space that does not decay or can be destroyed, but are forever accumulative in nature; while

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the physical composition of physical reality is of a mortal nature in a confined spatial order made up of material components of continuous entropic tendencies of decay and death, and at the same time inclusive of syntropy activities of self-preservation, regeneration, and procreation, even although maintaining the integrity of the overall physical system that also goes through the influences of entropy and syntropy, with death as its ultimate physical limitations of its overall system', as its sub elements experiences the same life threshold limiting phenomenon. Physical life's material reality therefore replicas the virtual interplay of entropy and syntropy in the virtual reality of outer space and its interactive representation within the virtual vacuum medium. Physical reality by its very nature is therefore bound by mortality as its essence is contained within individualistic singularity that evolved out of the consciousness of everything. Although individualism drives the syntropic evolution of reality, virtual and material, its confined structural boundaries of physicality within its physical structure of its physical reality, as opposed to the virtual limitless of consciousness of the virtual vacuum medium, restricts its direct regenerative interaction with the broader evolutionary sphere of outer space and the virtual vacuum medium, and therefore the limitation of degeneration through age and inevitable physical death, but its consciousness that connects with the broader physical consciousness of its nature, which interacts with the virtual vacuum medium, is infinite and immortal. So individual physical nature has a timespan and is mortal, but its consciousness, which is made-up of its intelligence and associated memories within its lifespan, is immortal, as it continuously interacts with the virtual vacuum medium, which is infinite by nature, and therefore stores the individual physical nature's consciousness within its realm of infinity, and which individually contributes to the continuous evolution of the infinite virtual vacuum medium's consciousness. Therefore physical death is the evolutionary transformation of individual singularity in its physical nature back into the virtual consciousness of everything in the virtual vacuum medium of outer space. Dark energy, the primary energy source of everything, therefore cannot be destroyed nor created as its infinite and all-pervasive in nature; it only evolves into virtual energy and then into physical energy and cyclically reprocesses back into virtual energy and then

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back into dark energy, as it builds through this recurring cycle into more complex intelligences and immortal consciousness that infinitely drives the evolution of reality.

#### 4. Borchardt G, 2007. Infinite Universe Theory, Glenn Borchardt, Progressive Science Institute, Berkeley, 2007

(<http://www.scientificphilosophy.com/Downloads/IUT.pdf>)

1 The fabric of the cosmos needs to be something for its to exist everywhere in the cosmos, and therefore cannot be nothing as there would be no temperature, but something in equilibrium that calculates to nothing technically.

2 The cosmos could not have had no energy, no heat and therefore no motion of matter, therefore it is logical to propose that the *cosmos consist of a universal medium of different essences of matter in equilibrium* that has the properties of energy, heat, matter and motion.

3 Any portion of the cosmos is a microcosm of its macrocosm, which in combination form the 'univirement', or the cosmic fabric.

#### 5. C. Leshan. How to Create an Absolute Vacuum and a Perfect Isolated System, Constantin Leshan ([http://www.fqxi.org/data/essay-contest-](http://www.fqxi.org/data/essay-contest-files/Leshan_Leshan.pdf)

[files/Leshan\\_Leshan.pdf](http://www.fqxi.org/data/essay-contest-files/Leshan_Leshan.pdf))

1 If the cosmos consist of fabric cells in its primary condition, and these cells dissipate due to the cosmic entropy process, virtual holes will appear in the fabric of the cosmos, creating vacuum holes which curve the cosmos primary cell material content of Space-Energy-Information-Time-Intelligence-Matter-Consciousness.

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- 2 Vacuum energy is the fundamental energy source that exists in outer space.
- 3 The virtual vacuum is the border of the universe.
- 4 Virtual vacuum energy is an ever-existent subconscious energy that exists everywhere.

**6. Davies PCW, 2001. Quantum Vacuum Noise in Physics and Cosmology, P.C.W. Davies, Imperial College London, United Kingdom & University of Queensland, Australia, August 2001.**

(<http://cosmos.asu.edu/publications/papers/QuantumVacuumNoiseinPyhsicandCosmology%2074.pdf>)

- 1 If entropy and syntropy is an interrelated system, and information is permanently lost in a black hole, then how does syntropy play its role within the cosmos to reconstruct the lost information?

**7. Davies PCW, 2007. The Implications of a Cosmological Information Bound for Complexity, Quantum Information and the Nature of Physical Law, PCW Davies, Arizona State University, Tempe** ([http://arxiv.org/ftp/quant-](http://arxiv.org/ftp/quant-ph/papers/0703/0703041.pdf)

[ph/papers/0703/0703041.pdf](http://arxiv.org/ftp/quant-ph/papers/0703/0703041.pdf))

- 1 The state of every virtual particle reflects the state of the virtual vacuum, the state of the virtual vacuum reflects that of outer space, each virtual particle carries information of the whole, and is sensitive to the whole.

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8. **Daywitt WC, 2009. The Planck Vacuum, William C. Daywitt, Colorado, USA, Progress in Physics, Volume 1, January 2009** ([http://ptep-online.com/index\\_files/2009/PP-16-04.PDF](http://ptep-online.com/index_files/2009/PP-16-04.PDF))

1 The quantum vacuum creates virtual particles, e.g. photons.

9. **F.A. Wolf. The Dreaming Universe, Common Ground Interview with Fred Alan Wolf** (<http://www.fredalanwolf.com/myarticles/The%20Dreaming%20Universe%20Q&A.pdf>)

1. A hologram piles up information from different parts in one single area. Every part of the hologram receives waves of information from objects that reflects light onto the holographic film. Therefore every piece of the hologram contains the whole instead of just a part. This is because the hologram is made from light-waves that are reflected from an object, and when these waves are reflected, travel into and fill the whole space of the hologram. Every part of the hologram contains waves from every part of the object.

10. **G. Dodig-Cmkovic. Where Do New Ideas Come From? How Do They Emerge? – Epistemology as Computation (Information Processing), Chapter X, Gordana Dodig-Cmkovic, Malardalen University, Vasteras Sweden**  
(<http://www.idt.mdh.se/~gdc/work/NewIdeas.pdf>)

1 The vacuum in space creates the environment for virtual particles to be created.

2 The virtual vacuum, through virtual vacuum energy, creates virtual particles.

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- 3 Virtual DNA structures interact in an open information system exchanging data with matter and energy in the environment.
- 4 Physical knowledge and its regenerative evolution, which includes human knowledge, stored within physical DNA compound structures, is part of an interconnected and interacting living network of information processing and communication exchange within the physical realm sphere for life's physical manifestation to evolve harmoniously within context of its broader interconnected and interactive virtual and pure vacuum ecosystems.
- 5 The physical DNA compound structures in a living cell interact in this open living network of life, exchanging information and receiving inputs from within its physical form and diffuses information from its physical form into the physical environment and interpreting this virtual information within its holographic access to the virtual vacuum medium knowledge biosphere that results in physical knowledge creation processes through DNA memory structuring.
- 6 DNA memory structuring stores these knowledge creation processes to develop a network of cognitive patterns in organizing information hierarchies of intelligences into an holistic consciousness that interact and perceive the physical environment at different cognitive levels as one organism to fulfil the ability in managing the complex information processing systems in the physical realm that continuously evolve within its own broader physical sphere. This unconscious physical action of memory structuring and storing, acts as a reference guide to conscious decision-making process that wills the most appropriate physical action required within its contextual environment from its referential context of the subconscious intelligence, which is called the 'free will' agency of consciousness that is also the premise of sustained survival of physical life.

**11. Gilman F, 2003. Quantum Universe: The Revolution in 21<sup>st</sup> Century Particle Physics, Prof. Frederick Gilman, Carnegie-Melon University, Pittsburgh, USA, October 2003 ([http://www.interactions.org/pdf/Quantum\\_Universe.pdf](http://www.interactions.org/pdf/Quantum_Universe.pdf))**

1. Quantum fluctuations of the vacuum are a natural source of dark energy.
2. Zero-point energy, the cosmological constant, is dark energy.
3. The 'virtual universe' have negative masses and energies and time moves from future to past, as the blue print is the future of the 'physical universe', and the 'physical universe' interacts with the 'virtual universe' backwards from the future, which in turn can change the future in the 'virtual universe' as the two dimensions of the 'virtual' future and the physical past continuously interact. The two dimensions are separated by the 'vacuum medium' that is inhibited by photons.

**12. Gilman F, 2003. Quantum Universe: The Revolution in 21<sup>st</sup> Century Particle Physics, Prof. Frederick Gilman, High Energy Particle Physics Advisory Panel Report, October 2003 ([http://www.interactions.org/pdf/Quantum\\_Universe\\_GR.pdf](http://www.interactions.org/pdf/Quantum_Universe_GR.pdf))**

1. Invisible dark matter holds the universe together; mysterious dark energy pushes the universe apart.

**13. Habegger EJ, 2006. Quantum Vacuum Pathway Theory; Quantum Mechanics & Torsion Physics, Tim Ventura & Eric John Habegger, American Antigravity.com, June 2006**

(<http://www.americanantigravity.com/files/articles/Eric-John-Habegger-Interview.pdf>)

- 1 The quantum vacuum has quantum memory of events in its quantum state; therefore it would need a dense quantum energy environment through which quantum events needs to forcibly construct its encounters in an interactive quantum environment.
- 2 Inflationary expansion decreases energy density.

**14. Hawking S, 1998. The Theory of Everything, Stephen Hawking, University of Cambridge, Global Knowledge Foundation, The Bulletin of the University of Toronto, 1998** (<http://www.slideshare.net/huzefa007/theory-of-everything-by-stephen-hawking>)

1. There are three different layers to reality; one the dark matter layer that has no identity or form, called the pure vacuum or outer space; two, virtual reality that propagates the blueprint for physical reality through light and magnetism to form a fused interconnected electromagnetic DNA wave structure of reality; three, the physical reality that produces physical matter through the propagation of atoms that combine in many different molecular permutations to produce the hundreds of sub-atomic particles and chemical elements broadly corresponding to solid, liquid and gas as known to science.  
(Knowledge Management, Author 6)
2. The photon produces electromagnetic force.

**15. Hengeveld R, 2007. Bootstrapping the Energy Flow in the Beginning of Life, R. Hengeveld & M. A. Fedonkin, Springer, October 2007**

([http://www.falw.vu.nl/nl/Images/19\\_tcm19-29539.pdf](http://www.falw.vu.nl/nl/Images/19_tcm19-29539.pdf))

- 1 The continuous production of virtual particles in the virtual vacuum generates an enormous amount of virtual energy that is instantly vaporized into oxidized virtual particles that link into more complex virtual DNA structures to conserve and supply virtual energy to the virtual vacuum.
- 2 Energy does not perish; it evolves into more complex forms and higher states of being to preserve its essence in sustaining the production of particle elements of life.
- 3 Virtual DNA structures become standardized reference particles in the hierarchical evolution of particle generation.

**16. M. Talbot. The Universe as a Hologram: Does Objective Reality Exist or is the Universe a Phantasm? Michael Talbot**

(<http://homepages.ihug.co.nz/~sai/hologram.html>)

1. The vacuum medium, which stores DNA, is the storehouse of all that is.
2. The virtual vacuum medium is a hologram.
3. Everything is part of everything in a hologram.

**17. Manzelli P, 2007. Bio-Quantum Physics: From an Exercise of Cognitive Science DNA/RNA as an Information Energy Catalyst's of Life System, Educazion&Scuola, Paolo Manzelli, President of: EGOCREANET/ Open Network for New Science c/o Lab.Edu.Res, University of Florence (It), May 18, 2007**

[http://www.edscuola.it/archivio/lre/bioquantum\\_physics.htm](http://www.edscuola.it/archivio/lre/bioquantum_physics.htm)

- 1 When information energy collapses through entropy, the virtual information field produces gene-ons, so that they can interact with every virtual particle in the cosmos. This syntropic change of the cosmic environment transforms its virtual status into effective quantum particles thereby transforming its destructed information energy into an effective electromagnetic force that produces the matter-energy cosmic environment.
- 2 Genetically sequenced vacuum particles are quantized into photons that generate light waves through electromagnetic energy.
- 3 The evolution of the macroscopic entropy of pure space is catalysed by the virtual vacuum medium energy that interprets the quantum interactions of communications among quantum particles in the microscopic context of the syntropy environment of the virtual space to develop virtual DNA structures that gradually produces macroscopic mutations in outer space that generates its system evolution.
- 4 The capacity for immaterial or virtual perception means that the mind has the capacity to modulate virtual information energy by codifying it into space-time energy and matter perception. So the mind has the capability to transcend its material perceptual space boundaries through the virtual vacuum medium.
- 5 The fused interconnected virtual compound DNA structures virtualized in the hologram of the virtual vacuum medium generates different electromagnetic waves according to the different virtual compound DNA structure energies

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making up the electromagnetic spectrum of light waves, gamma or x-rays, ultraviolet or infrared light or radio waves. These different electromagnetic waves transmit information energy into the physical realm through photons., which create an infinite high concentration of information energy in physical space that creates a physical gravitational force, called the sun, the physical vacuum medium operating with physical vacuum thermal energy, which photosynthesizes the photons into atoms to formulate compound physical genetic DNA structures that replicas the different virtual compound DNA structures virtualized in the hologram of the virtual vacuum medium. This change of space time coordinates effectively transforms quantum particles into atoms.

- 6 Genetic DNA structuring is therefore highly sequenced activities directed by catalytic exchanges between the virtual and physical spheres that determine evolutions in physical space.

### **18. Manzelli P, 2008. Self-Organization and Energy Conversion: Quantum-Bio-Physics (11-Part), Paolo Manzelli, The General Science Journal, March 2008**

<http://www.gsjournal.net/old/science/manzelli31.pdf>

- 1 Information communication in the virtual vacuum generates the self-organized patterns of energy conservation and transformation in virtual vacuum medium.
- 2 Information transmits encoded energy.
- 3 Information is communicated through signal exchange directly and through embodied information in DNA.

**19. Miller I and Miller R, 2003. From Helix to Hologram; An Ode on the Human Genome, Iona & Richard Allan Miller, OAK Publishing, USA, Nexus Magazine, August – September 2003.**

([http://www.bibliotecapleyades.net/ciencia/ciencia\\_adn10.htm](http://www.bibliotecapleyades.net/ciencia/ciencia_adn10.htm))

- <sup>1</sup> Nothing is the most fundamental environment from which reality and existence evolves.
- <sup>2</sup> Virtual vacuum structure consists of virtual wave/particles.
- <sup>3</sup> The virtual vacuum is a hologram.
- <sup>4</sup> Virtual genetic structures are holographically produced by photons.
- <sup>5</sup> DNA is the recording, storing, transducing and transmitting system for genetic information.
- <sup>6</sup> The nature of reality is fundamentally analogous to that of a holographic projection. A hologram describes transformations of light and optical information mathematically in wave mechanics terms. Thus the mind encodes information as holograms.

**20. Nemitz V, 1995. The Ghostly T.O.E, Vernon Nemitz, March 1995**

(<http://www.nemitz.net/vernon/GHOSTLY.pdf>)

- <sup>1</sup> The virtual vacuum consists of virtual particles with virtual energy.
- <sup>2</sup> The virtual wave/particle vibrates with virtual energy to emit virtual gravitons (gravity particles), which forms the basis of matter particles.

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- 3 The virtual vacuum medium is the gravitational force energy of the virtual vacuum space. The virtual vacuum medium acts as a gravitational energy force in space. *Thought: Gravity balances forces.*

### **21. Nguyen TT, 2003. Casimir Effect and Vacuum Fluctuations, Trang T. Nguyen, Ohio University, Spring 2003**

([http://www.hep.caltech.edu/~phys199/lectures/lect5\\_6\\_cas.pdf](http://www.hep.caltech.edu/~phys199/lectures/lect5_6_cas.pdf))

- 1 Photons are quanta of electromagnetic waves.

### **22. Ostoma T, 1999. Does the Quantum Vacuum Fall Near the Earth? The downward acceleration of the quantum vacuum is responsible for the Einstein Equivalence Principle and also for 4D Space-Time Curvature, Tom Ostoma & Mike Trushyk, Ontario, February 1999.**

(<http://arxiv.org/ftp/physics/papers/9902/9902029.pdf>)

1. All particles are produced as two, one the real particle and the other the anti-particle. The anti-particle serves as the replica memory of the real particle, and forms part of the subconscious virtual background.
2. Holograms contain all the information needed to reconstruct a whole image. They contain many dimensions of information in far less space, like a compressed file. They hold that information in a subtle network of interacting frequencies. Thus, shining a coherent light (reference beam) or laser through the fuzzy-looking overlapping waves of a two-dimensional hologram can create a virtual image of a three-dimensional figure.

**23. P. Manzelli. Bio-Quantum Computing, Pathways of Mental Change, Science of Quality Series No. 3, The General Science Journal, Paolo Manzelli.**

<http://www.gsjournal.net/old/science/manzelli4.pdf>

- 1 There exists pure information energy as a primary force in the cosmos.
- 2 In classical physics, information is considered a discreet entity such as matter, energy and time.
- 3 Virtual energy transforms information waves into photonic free energy.
- 4 Information energy cannot be copied in its pure state; it needs to be quantified through a codification process into a genetic structure.
- 5 Information energy informs energy to create matter.
- 6 Physical DNA compound structures communicate within an organism and diffuse information into the environment.

**24. P. Manzelli. Bio-Quantum Physics: DNA/RNA As an Information Energy Catalyst in Life Systems, The General Science Journal, Paolo Manzelli, President of: EGOCREANET/ Open Network for New Science, c/o Lab.Edu.Res, University of Florence (It)**

<http://www.gsjournal.net/old/science/manzelli.pdf>

- 1 Information is a coherent physical intermediate virtual state, associated with the transformation different codified forms of microscopic energy and matter. The very fact of immaterial perception means that the information energy packets are modulated in a virtual interpretation of the mind and thus turn out to the space-time perceived by senses or by instruments. Information energy codifies relationships within the cosmos to develop information matter that is constructed as intelligence of the system.

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- 2 Virtual particles, within the virtual vacuum, produces virtual concepts before it materializes as objective forms of physical particles of matter. *(Information does not have current meaning, because it is something that precedes physical form; it is the potential preliminary activity to obtaining an objective form, i.e. the effective form that we can perceive, pre-exists as a virtual conception before the concrete material being of an object.*
- 3 Information codifies the potentiality of an objective form, and therefore has an objective purpose.
- 4 The pure information wave *(behaving similar to vacuum energy in empty space)* is a separate entity, and acts as an underlying background for potential energy.
- 5 Pure information energy is generated during codification of potential form and potential energy, also known as DNA sequencing construction.
- 6 Information is an objective intermediate virtual state that pre-exists for the purpose of codifying microscopic energy and matter before coming into existence.
- 7 The virtual information field produces quantum particles that interact with all microscopic elements that transform their virtual status into electromagnetic forces.
- 8 Reality, or existence, should include both the processes of becoming and being, and not just what can be conceived as real and being, because the process of conceiving virtual form and giving it physical form forms part of the same reality of creation.

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- 9 If virtual energy has always been and is part of the pure vacuum in outer space as a pure qualitative entity that evolves into different codified energies then energy cannot be created or destroyed.
- 10 DNA is a quantum antenna that communicates gene-signals.
- 11 Gene-Ons particles communicate genetically codified information.
- 12 Reality consists of the virtual and physical reality, that which is in the process of becoming to that which is physically manifested through the process of becoming. This process of becoming is the codification of information as the transformative action of reality, consisting primarily of information as a qualitative and transformative entity.
- 13 DNA works as a 'quantum antenna' to spread 'gene-signals' towards active receptors. DNA would be capable of communicating signals to proteins and enzymes and would be able to harmonise the regulatory relationship of creating and destroying proteins.
- 14 Virtual energy is quantised into photons that are a source for generating codified information waves that activate virtual DNA functionality. Virtual DNA structures communicate genetically codified information to orchestrate the creation of physical particles.
- 15 Virtual Information – informs the codification of information signals to produce a virtual form, in form of virtual DNA structures that produce physical particle forms, these virtual DNA structures are stored and communicated as perceptual information in the reproduction of physical forms. This codex of DNA structure knowledge is the medium that generates evolution.

*(Idea: Dreams are the virtual representation of spontaneous creation of virtual particles in the brain. Memory is the source of identity [particle duplication].*

*Identity is created in the virtual medium, which is the source of DNA*

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*reproduction and identity knowledge. Dreams are information codification processes in the brain. The codification process uses symbols that are recognisable to the receptor, so that it can be easily communicated and perceived. We live in a 'brain', and we are but DNA particles making up the brain system, our relationships are DNA communication connections that changes our particle energy evolution and perseverance to influence the 'brain' we live in.*

- 16 Information energy generates the transmission and reception of DNA genetic information.
- 17 The virtual information energy of virtual particles is transformed into electromagnetic energy that creates DNA structures in the virtual vacuum medium.
- 18 The virtual medium is catalysis of controlled co-organized information energy that contains more intelligible information than chaos in order to transform the virtual information energy into co-operative information co-ordinated activity responsible for DNA structure development and chemical reaction transformation.
- 19 Information energy transforms reality.
- 20 Evolutions in reality are the result of different codified energy transformations sourced from the primary pure energy, known as dark energy that cannot be created or destroyed.

**25. P. Manzelli. Transduction of Sensory Signalling; Bio-Quantum Physics, Paolo Manzelli, Science of Quality Series, No. 6, The General Science Journal.**

(<http://gsjournal.net/Science-Journals/Research%20Papers-Biology%20/%20Medicine/Download/314>)

- 1 Photons are quantum particles of light that transmit information.
- 2 Information energy can only be transformed by a mechanical receptor (virtual vacuum) that can transform pure energy into codified information.

**26. P. Manzelli. Intelligibility of Nature, Paolo Manzelli,**

([http://www.edscuola.it/archivio/lre/intelligibility\\_of\\_nature.pdf](http://www.edscuola.it/archivio/lre/intelligibility_of_nature.pdf))

- 1 The mechanical receptor (virtual vacuum) would need to be conscious of its own workings to know what it perceives during the information codification process.

**27. PCW Davies. The Implications of a Holographic Universe for Quantum Information Science and the Nature of Physical Law, PCW Davies, Macquarie University, Australia.**

(<http://power.itp.ac.cn/~mli/pdavies.pdf>)

- 1 Information can only be codified through a medium that manifests it.
- 2 Information exists as a fundamental virtual potentiality everywhere, and is manifested through consciousness of being that acts as a processing medium of translating the virtuosity of information into physicality within the appropriate circumstantial ecological environment of the being's consciousness. This makes physical reality an interpretative environment that is not absolute, but is discretionary open to evolutionary consciousness development.

**28. Puthoff HE, 1990. The Energetic Vacuum: Implications for Energy Research, H.E. Puthoff, Institute for Advanced Studies, Austin, USA, Speculations in Science and Technology, Vol. 13, No. 4, 1990.**

(<http://www.subtleenergies.com/ORMUS/research/puthoffv.htm>)

1. If the vacuum generates a continuous energy reservoir then how does it balance this energy into a zero-point energy?
2. The virtual vacuum constitutes a virtual electromagnetic zero-point-energy reservoir.

**29. Robbins SE, 2005. Bergson and the Holographic Theory of Mind, Stephen E. Robbins, Metavante Corporation, Milwaukee, WI, March 2005.**

(<http://www.theassc.org/files/assc/Bergson-Phenomenology-2.pdf>)

- 1 According to holographic principle theory deconstructed information is permanently stored on the surface of cosmic systems and never get lost, this would therefore include black holes as well.

**30. Rueda A, 2005. Gravity and the Quantum Vacuum Inertia Hypothesis, Alfonso Rueda, California State University, USA; Bernard Haisch, ManyOne Networks, USA, July 2005** ([http://www.calphysics.org/articles/gravity\\_arxiv.pdf](http://www.calphysics.org/articles/gravity_arxiv.pdf))

1. The ground state is one with the lowest energy density, which is zero-point energy.

**31. Rugh SE, 2001. The Quantum Vacuum and the Cosmological Constant Problem, S.E. Rugh, Symposion, Denmark; H. Zinkernagel, Instituto De Filosofia, Madrid**

(<http://philsci-archive.pitt.edu/398/1/cosconstant.pdf>)

- 1 Virtual vacuum energy, at a constant zero-point fluctuation, inflates the virtual vacuum space.
- 2 The vacuum state is the lowest energy density state of a collection of quantum fields that is in zero-point fluctuation, which gives rise to an enormous vacuum energy density.

**32. S. Maji. Towards the Theory of Everything, Subhrajyoti Maji**

(<http://www.gsjournal.net/old/science/maji2.pdf>)

- 1 Space-Energy-Information-Time-Intelligence-Matter-Consciousness, as a cosmic fabric, is spread everywhere with no free space in the cosmos, with an energy level of zero-point with all substances of the cosmic fabric in total equilibrium, and is present in everything that evolves from it into existence.
- 2 The zero-point energy of the cosmic fabric is the medium for electromagnetic waves which produces light, and would therefore be present everywhere in the cosmos and in everything that evolves from its cosmic environment.
- 3 Electromagnetic waves interact with the cosmic environment through electromagnetic energy that produces a medium called light, and is the internal energy source of all existence evolving from the cosmic fabric. Light is therefore the primary substance of everything evolving out of the fabric of the cosmos.
- 4 Since the vacuum medium propagates photons, which are light waves, electromagnetic waves are present everywhere.

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- 5 The vacuum medium produces electromagnetic waves.
- 6 Virtual particles are condensed forms of the virtual vacuum, formed out of the condensed vacuum medium.
- 7 Life is eternal energy stored in everything by means of electromagnetic energy.
- 8 The pure vacuum is filled with dark particles and is at rest at zero-point dark energy, it is infinite and in equilibrium. If the pure vacuum is the resting place of all particles, then all particles would want to be part of the pure vacuum as its aim in life.

### 33. S. Thakur. Quantum Entanglement and Holographic Universe, Sunil

Thakur, *The General Science Journal*. (<http://gsjournal.net/Science-Journals/Research%20Papers-Quantum%20Theory%20/%20Particle%20Physics/Download/1281>)

- 1 Quantum reality form a virtually limitless array of potentialities that are inherently incapable of realization without the observation of a knowing entity, consciousness, therefore the universe has to be conscious of itself to code virtual particles into real particles.
- 2 The anti-particle in the virtual vacuum (subconscious) represents the subtext of reality, which unfolds continuously and interactively with the explicit reality of consciousness. Dreams (virtual vacuum medium) codify and integrate the implicit subtext of the virtual vacuum into the explicit reality of life.
- 3 Purpose of the study: (1) To conceptualize a cosmological intelligence system to the evolution of life (2) To discover the cosmological mechanism to the organization of evolutionary consciousness (3) To define the cosmological

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social order of consciousness (4) To understand the cosmological framework of action and sustainable evolution.

**34. Setterfield B, 2002. Exploring the Vacuum, Barry Setterfield, Journal of Theoretics, December 2002 (<http://www.setterfield.org/000docs/exploringvacuum.htm>)**

1. Zero-point energy is virtual energy that exists at absolute zero energy density in the virtual vacuum.
2. The virtual vacuum has an infinite zero-point energy density with fluctuating virtual electromagnetic fields.
3. The virtual zero-point energy strengthens with the increase in the virtual vacuum space.
4. Zero-point energy is pervasive everywhere in the material world.

**35. Setterfield B, 2003. General Relativity and the Zero Point Energy, Barry Setterfield, Journal Theoretics, October 2003**

(<http://www.journaloftheoretics.com/Links/Papers/BS-GR.pdf>)

1. The virtual vacuum contains energy expressed as the randomly fluctuating electromagnetic fields of the ZPE.

**36. Setterfield B, 2007. Reviewing the Zero Point Energy, Barry Setterfield, Journal of Vectorial Relativity, 2007**

([http://jvr.freewebsite.org/TableOfContents/Volume2/Issue3/ZeroPointEnergyInReview\[2\].pdf](http://jvr.freewebsite.org/TableOfContents/Volume2/Issue3/ZeroPointEnergyInReview[2].pdf))

1. The virtual zero-point energy is the ground state of all virtual energy and the fundamental basis of all other energy.

**37. Sevilla ALC, 2003. Negative Energy and Empty Space: The Metaphysics of the Vacuum Fluctuation Theory, Anton Luis C. Sevilla, 2003.**

- 1 Nothingness is dull, static, and impotent.
- 2 In the fundamental beginning of everything, there was nothing.
- 3 Nothingness by its very nature is the milieu in which things came to be.
- 4 Problem statement; 'If all things began with nothing, how things came to be, because from nothing, nothing comes to be'.
- 5 Nothing becomes something when the concept of nothingness is questioned from a perceptual framework of perceiving its state of being.
- 6 "The state of absolute nothingness is when there is no matter, no energy, no laws, no concepts, no mind, no time, no space, no manifolds, nothing – no laws of statistics, probability, quantum fluctuations, no context of logic and order".
- 7 If the vacuum is the environment in which mass-energy comes into being and exists, is nothing then a separate milieu, in which the vacuum exist?

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- 8 The nothingness in a vacuum is when the mass-energy summates to zero.
- 9 Evolutionary Questions: What brings about an effect; from what it came about: the form in which it is as it is; for what ends or finalities is it bound?
- 10 To get to the differentiation in the semantics of something and nothing, it need to be assessed firstly on the highest level of organization regarding the question of information or chaos; secondly, on the level of the mass-energy question, and thirdly on the level of space-time vacuum or absolute nothingness.
- 11 Information and conglomeration of matter is a function of order as opposed to chaos and entropy. If order spontaneously evolves out of chaos, then it's a function of interaction between particle determination and interaction with symmetry collapse in chaos.
- 12 The average energy of empty space is zero, due to quantum fluctuations where the energy density randomly fluctuates slightly above and slightly below zero through the course of time. This phenomenon is physically manifest in the appearance of pulses of positive energy that quickly disappear, followed by equivalent pulses of negative energy that again, quickly disappear – creating a – sea of virtual particles coming in and out of existence in this apparent vacuum. **(Vacuum Quantum Theory, Author 32)**

**38. Stormo GD, 1998. Specifically, Free Energy and information content in Protein-DNA Interactions, Gary D. Stormo & Dana s. Fields, TIBS March 1998 ([http://www.bio.bg.ac.rs/Marko Djordjevic web site/main/fajlovi\\_racunari/Stormo Fields review.pdf](http://www.bio.bg.ac.rs/Marko_Djordjevic_web_site/main/fajlovi_racunari/Stormo_Fields_review.pdf))**

- 1 The virtual vacuum medium is a spontaneous self-organization of individual virtual particles in the virtual vacuum into ordered virtual DNA system structures.
- 2 The virtual vacuum medium operates as an intermediate common reference with the purpose to regulate coherent synchronism within the microscopic environment of inner space and the macroscopic environment of outer space.
- 3 Reality consists of two forms of information energy communications; one is the free continuous generated virtual information from virtual particles that is spontaneously generated in the virtual sphere, which influences the DNA structures of genetic material that is communicated through regular encoded information.

**39. Talbot M, 2006. The Holographic Universe: Does Objective Reality Exist? Michael Talbot, December 2006 ([http://www.themeasuringssystemofthegods.com/the\\_holographic\\_universe.pdf](http://www.themeasuringssystemofthegods.com/the_holographic_universe.pdf))**

1. Information connections in pure outer space cause a dense concentration of zero-point energy to curve around forming a black hole that decays the newly connected information connection into a virtual vacuum. This operation preserves the zero-point energy levels of the pure outer vacuum.

**40. Theeraleekul N, 2004. Vacuum Mechanics: A New Approach to the Theory of Everything, Nimit Theeraleekul, March 2004**

[http://www.vacuum-mechanics.com/index.php?option=com\\_wrapper&view=wrapper&Itemid=4&lang=th](http://www.vacuum-mechanics.com/index.php?option=com_wrapper&view=wrapper&Itemid=4&lang=th)

- 1 Empty space is created out of the fundamental fabric of the cosmos through gravitational energy.
- 2 The virtual vacuum medium codifies virtual particle information waves.
- 3 The vacuum medium is the vacuum space energy that holds the fabric of the vacuum together through gravitational force and also facilitates interaction with the entropic environment of the pure vacuum and creates vacuum space for the creation of virtual particle creation and the codification of virtual particle information waves through electromagnetic photons.
- 4 Virtual particles are condensed forms of the vacuum medium.
- 5 Virtual particles interact with the vacuum medium through an electromagnetic field of a photon.
- 6 The vacuum medium is the womb of evolution.
- 7 Vacuum energy creates vacuum space.
- 8 Matter is a condensed form of the virtual vacuum medium.

**41. Valone T, 2005. Practical Conversion of Zero-Point Energy, Feasibility Study of Zero-Point Energy Extraction from the Quantum Vacuum for the Performance of Useful Work, Thomas Valone, Integrity Research Institute, 2005 (<http://www.integrityresearchinstitute.org/FeasibilityStudyZPE-Valone.pdf>)**

1. The pure vacuum is the ground state with the lowest energy state.
2. The constant flux of the zero-point-energy in the outer pure vacuum causes a constant decay of the outer pure vacuum, which causes the macrocosm to consistently disintegrate into microcosm elements that constantly feeds the syntropy process in the virtual vacuum.

**42. Vilenkin A, 1995. Quantum Cosmology and the Constants of Nature, Alexander Vilenkin Institute of Cosmology, Department of Physics and Astronomy, Tufts University, Medford, MA 02155, USA, December 1995. (<http://arxiv.org/pdf/gr-qc/9512031.pdf>)**

- 1 Nothing, in terms of quantum cosmology, is the absence of matter, space and time. This cosmic nothingness spontaneously nucleates through vacuum energy that thermalizes an inflationary expansion into a radiation-dominated expansion of universes.
- 3 The virtual vacuum thermalizes through the virtual energy information codification activity between virtual particles that expands the virtual vacuum medium boundary due to the radiation-dominated interaction within the virtual vacuum.

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### **43. VJ Stenger. The Anthropic Principle, Victor J. Stenger, The Encyclopedia of Nonbelief to be published by Prometheus Books.**

([http://www.colorado.edu/philosophy/vstenger/Cosmo/ant\\_encyc.pdf](http://www.colorado.edu/philosophy/vstenger/Cosmo/ant_encyc.pdf))

1. Vacuum energy density is equivalent to the cosmological constant at the curvature of empty space.

### **44. Wallace BA, 2001. The Potential of Emptiness: Vacuum States of Space and Consciousness, B. Alan Wallace, Network: The Scientific and Medical Network Review, December, 2001, No. 77, pp. 21 – 25.**

(<http://www.alanwallace.org/The%20Potential%20of%20Emptiness.pdf>)

- 1 The vacuum's fluctuations initiate's space-time, therefore the absolute nothingness, is the cradle of the physical vacuum, and is therefore a state wholly innocent of laws, space, and time – a state in which nothing exists but possibilities.
- 2 When a virtual particle is coded, that's when it becomes real; codification of virtual particles injects the virtual particles with energy.
- 3 The coding of virtual particles leaves an imprint on the virtual vacuum.
- 4 The pure outer vacuum is in a static perfect symmetrical frozen state that warms into a virtual vacuum state through the constant flux of the zero-point-energy in the outer pure vacuum that liberated enormous amounts of energy that give rise to the virtual vacuum and its continuous generated virtual particles.

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