

Theory of Universal Oscillation

Ian Weinberg

ABSTRACT: The proposed theory is based on the hypothesis of a rotating universe. At a critical circumference the universe rotates with an angular velocity in the peri-luminal range. Through circumferential increments at the critical circumference, matter forms into black holes and emerges into singularity. An instantaneous transfer of information takes place in the singularity through probable resonance of representative energy quanta. The re-materialization of matter is associated with the emission of vectored energy which contributes to the expansion of the universe, Brownian movement and further prevents the collapse of the atom. This energy which derives from emission is proposed as a source of Dark Energy. A process of perpetual oscillation is therefore proposed, as existing between the relativistic and nonlocality domains. In the context of this theory it is proposed that the brain and the consciousness that it supports becomes the convergence point and bridge between the relativistic and nonlocality dimensions. This self-perpetuating dynamic provides an explanation for prevailing superposition and the collapsing of the wave into relativistic existence.

Key words: Universal Oscillation, black hole, nonlocality, singularity, Dark Energy, consciousness, neuro-electric field, superposition, wave collapse.

INTRODUCTION

Existing models which have attempted to integrate the core concepts of relativity with quantum physics remain controversial and incomplete. The prevailing consensus is that gravitational forces apply to the macro-environment, the strong, weak and electromagnetic forces apply to the atomic and subatomic environment, while beyond Planck mass and length, within the singularity, the dimension remains undefined. These multi-faceted but incomplete models are further flawed by the conspicuous absence of any proposed hypothesis explaining the observed phenomenon of entanglement within a nonlocality context in which occurs the supra-luminal transfer of information.

The fundamental requirement for any proposed unifying theory is that all the observed characteristics of time, mass and energy be incorporated without bias. The theory should also be firmly anchored within the extended, perceived environment and not diverge into an abstract mathematical form which may no longer reflect the dynamics of the environment that it represents. Mathematical modelling is essential in evolving and unifying any proposed physical theory. However when the symbolic representation of the

physical environment becomes integrated within a mathematical language in which the language itself is governed by its own rules, a situation may arise in which the mathematics becomes an end in itself and no longer accurately reflects the extended physical environment. There are those subscribers to the nonlocality thesis who would argue that following the documented influences of observer consciousness on entanglement, mathematical modelling itself may bring about observable changes in the physical environment.

UNIVERSAL ROTATION AND OSCILLATION

The theory which I propose has attempted to incorporate the diversity of observed and modelled physical phenomena in the context of a heuristic approach. Fundamental to this proposed theory is a globally rotating universe. Several individuals have proposed this concept in the past, based upon mathematical and physical evidence. Gödel in his Metric proposed a rotating universe but without factoring in the Hubble constant for expansion (Gödel, 1949). Later, Hawking endorsed mathematically the possibility of a rotating universe, albeit with a low angular velocity (Hawking, 1969). Su and Chu obtained a superior limit of global universal rotation of $4 \times 10^{-17} \text{ rad.s}^{-1}$ (Su & Chu, 2009). Chechin subsequently derived a global rotation value based on the induced rotation of elliptical galaxies (Chechin, 2010). On the study of rotation of galaxies, Longo showed that more than fifty percent of 15 000 galaxies demonstrated a counter-clockwise rotation, which contributed to the possibility of a globally rotating universe (Longo, 2011). Li-Xin proposed mathematically that a globally rotating universe could give rise to the formation of galaxies and their individual spins (Li-Xin, 1998).

My own proposed theory of a rotating universe is based on the proof submitted by Berman and Gomide in which they show that, by a general relativistic derivation, the universe is locally and globally stable in a rotation resembling an extreme Kerr white-hole-universe (Kerr, 1963; Berman & Gomide, 2013). I contend that at the centre of an assumed circular universe, rotates a large black hole where the angular velocity is near a luminal (speed of light) value, c . Consequent upon a shear effect, the adjacent space or ergosphere, rotates at similar angular velocity values, with diminishing values occurring along a radius towards the circumference. The peripheral rotational values would reflect the lower global, angular velocities as previously proposed due to inertial shear and a combination of gravitational and electromagnetic ‘turbulence’.

I would postulate further that our galaxy exists within the ergosphere of rotation with a critical circumference such that our angular rotation is peri-luminal, approaching luminal values. Following on from Special and General Relativity, as a mass entity accelerates towards the speed of light c , the energy

driving the acceleration is progressively converted into mass in accordance with the formula $E=mc^2$ (Einstein, 1905). If the process is allowed to continue, the mass would theoretically tend to increase to infinite proportions. However at a threshold mass, the Schwarzschild radius for that specific mass is reached. The Schwarzschild radius is a measure of the threshold ratio of the radius of a spherical entity and its density such that if the density increases above the threshold for that specific radius, the mass entity as such can no longer be sustained. The mass entity therefore implodes in upon itself and transforms into a black hole, emerging into singularity (Schwarzschild, 1916). This hypothesis has been supported mathematically by Kumar and Sahoo (Kumar & Sahoo, 2013).

Angular velocity along the circumference of rotation can be viewed as the average velocity after traversing individual Planck segments, arranged with changing orientations along a circumference. The Planck length is the smallest measurable physical distance beyond which all physical parameters become undefined. With changing vectors of force and acceleration along the circumference there are incremental changes in angular velocity. As the circumferential path changes at the start of the next segment, the angular velocity has diminished to a sub-luminal value because the previous vectors of force and acceleration have diminished as the new vectors increase angular velocity in a different direction. Hence the mass re-emerges from singularity at the sub-luminal velocity, experiences the new vector influences, accelerates to threshold angular velocity and then exits again into singularity. In this way the process perpetually repeats itself.

In effect what is postulated is an oscillation of mass and its energy equivalent while within the dimensions of relativity and the singularity respectively. Within the dimension of relativity there is no velocity greater than luminal c . However within the nonlocality milieu of the singularity, mass, time and distance tend to zero such that connectivity is instantaneous. It is in this latter dimension that the observed manifestation of nonlocality can be adequately explained.

The vectors of force and acceleration require abundant energy to maintain luminal levels of angular velocity, beyond that which is contributed by the centrally rotating black-hole. Conversely the re-emergence of mass from singularity is accompanied by the gain of energy. The magnitude of this energy would be of the order of mc^2 , following on from relativity. Consequently there is a pool of energy resulting from this vectored energy emission and utilization which I postulate contributes to ubiquitous Dark Energy. It is the pool of Dark Energy which is utilized (absorbed) to *inter alia* drive the angular velocity of the universe and which facilitates the emergence into singularity. Dark Energy will be detectable wherever the mass oscillation occurs.

GRAVITY, INERTIA AND ELECTROSTATIC FORCES

Energy absorption gives rise to the gravitational force which is further manifest by the curve of relativistic space-time in the vicinity of substantial mass. Energy absorption at the molecular, atomic and subatomic levels gives rise to electrostatic, strong and weak attraction and is no different from the gravitational effects of the macro-sphere. Vectored energy emission gives rise to the expansion of the universe, Brownian movement, the integrity of atomic and molecular structure by preventing atomic collapse as well as electrostatic repulsion. The centripetal/centrifugal forces consequent upon the rotating universe further contribute to the expansion of the universe.

The perpetual processes of absorption and emission are proposed as the core forces of the universe. Absorption and emission are also proposed as an explanation for gravitational waves as predicted by Einstein (Einstein, 1916). Absorption and emission in space-time in the vicinity of accelerating mass (undergoing oscillation) would give rise to a propagating wave through space time, the parameters of which would reflect the magnitude of the accelerating mass.

The physical properties of mass such as density, momentum and inertia are consequently regarded as a measure of the degree of energy absorption required in the oscillation process. The more the body mass, the more energy required for absorption and oscillation and the greater the gravitational value. At all levels of mass dimensions the competing processes of absorption and emission will occur. All subatomic components within any given mass body follow the circumferential trajectory in which each in turn passes into singularity at the Planck distance. Larger mass bodies comprise greater numbers of molecular and atomic components and therefore represent the summation of these components in terms of energy absorption and emission. Vectored emission within the body is randomly orientated and will therefore tend to cancel out significantly while absorption continues unopposed. The integrity of the mass within the relativistic domain therefore prevails. The existence of resultant vectored emission beyond the mass surface will contribute to the effects described previously.

Similarly, in the context of closely situated large body masses, vectored emission between the bodies is randomly orientated and will therefore tend to cancel out significantly while absorption continues unopposed. In this way the gravitational forces within a galaxy will offset the expansion of space-time due to the combined influence of emission and centripetal/centrifugal forces. I would further contend that this absorptive process supersedes the hypothesis of dark matter and its postulated gravitational influences.

Molecular and atomic components which contribute to a greater mass are integrated into the collective absorption and emission dynamic of the mass entity. On fragmenting the mass into smaller molecular and atomic components, the characteristics of the opposing processes of absorption and emission will change.

The opposing processes become more equally balanced and manifestations of each become more identifiable and more easily manipulated or biased into either direction.

In the context of this model I propose that hypothetical gauge bosons do not exist. Rather, forces incorporated in the Standard Model may be accounted for by randomly orientated and vectored emission within the field which will cancel out significantly in regard to grouped structures while absorption continues unopposed. I further propose that the Higgs boson represents more a state than a particle. It would represent highly energized mass approaching black hole formation or alternatively, 're-entry' of highly energized mass returning from the singularity at the point of energy emission. One has in fact observed the emergence of newer 'Higgsless' alternatives to the Standard Model (Calmet et al, 2008).

CHARACTERISTICS OF DARK ENERGY

The energy contributors to the Dark Energy pool can be summarized as follows:

1. Mass emission on return to the relativistic milieu
2. Kinetic energy of mass, previously accelerating, returning to the relativistic milieu
3. The centrally rotating black-hole

No distinction is made between macro-bodies and subatomic particles. In terms of this definition therefore, subatomic emission from accelerating bodies gives rise to electromagnetic emission while macro-body emission analogously would give rise to gravitational waves.

The characteristics of Dark Energy would need to support the following universal observations:

1. Incorporate the properties of space-time
2. Provide the appropriate medium for electromagnetic transmission
3. Remain static or devoid of angular velocity relative to rotating universal bodies. In this way Dark Energy at the interface with oscillating mass receives kinetic energy emission and imparts a similar magnitude of energy in an equal and opposite manner thereby contributing to the mass acceleration. Therefore Dark Energy can be seen to accelerate subatomic particles as well as macro-bodies in terms of rotation and linear translation. I would propose that light and other electromagnetic transmission are propagated as a result of absorption and emission by physical bodies encountered along the course of their trajectories. Therefore space-time devoid of the oscillation dynamic would be perceived as having large black hole-like properties, reflecting an absence of dark energy supportive substrate.

Implicit in this hypothesis is a possible explanation for electro-magnetism - the acceleration of mass (electrons) under the influence of the absorption "field" of greater mass (nuclear protons), the emission energy and kinetic energy of accelerating electrons would result in an opposite force elicited from the Dark

Energy milieu (magnetic force) driving parallel oriented electrons. Similarly, the transmission of electromagnetic waves through Dark Energy reflects the propagation of vectors of interface electron energy emission, supported by an interference process within the energy-rich milieu. While the Dark Energy - mass interface reflects equal and opposite forces, overall space-time would be stretching as a result of accumulative universal emission into the Dark Energy milieu as well as the effects of universal centripetal-centrifugal forces.

Extrapolating this concept further, mass-energy entities in the relativistic domain may be regarded as standing waves which have been generated by a process of interference. This interference occurs between the emission of the energy of returning mass entities into the relativistic domain with the Dark Energy dynamic. Inherent within the Dark Energy dynamic are the properties which lead to the portrayal of standing waves as separate mass entities within a time-distance dimension.

INFORMATION TRANSFER IN THE SINGULARITY

The singularity may be defined as a dimension characterized by the presence of the energy equivalent of mass devoid of time, mass and distance. However the energy representation must be in the form of identifiable quanta which retain their individual integrity so that on return to relativistic conditions the mass is re-materialized. I submit further that within the singularity, the phenomenon of resonance occurs between similar energy quanta or through the harmonics thereof. This in itself would contribute to the connectedness of the dimension. In this way the instantaneous transfer of information takes place which may become manifest in mass entities on return to the relativistic dimension. Entities connected in this way are described as being entangled. Perceived changes of the entities in the relativistic milieu are instantaneous as a result of the connectivity while within the singularity. Instantaneous changes of entangled entities has recently been observed and measured at two distant locations (Fuwa et al., 2015).

The energy representation of all physical elements incorporates all the potential for materialization and is referred to as superposition. In the context of this proposed Theory of Universal Oscillation, superposition occurs within the singularity domain. In the absence of attempts at direct quantification of superposition or the directing of any conscious attention towards this energy equivalent, the energy milieu evolves according to Schrödinger's equation (Schrodinger, 1926). I would further contend that the source files underpinning the entire oscillation process are also operative in the energy flux of the singularity. Consequently every physical entity that re-emerges into physicality incorporates the full singularity flux at that specific instant. Each entity is thus a hologram of the entire spectrum of singularity flux inclusive of the source files of the extended oscillation process.

THE BRAIN AND CONSCIOUSNESS

Human consciousness is perceived in the relativistic domain as a process in which environmental entities and their associations are perceived and integrated. The integration develops into an understanding of the environment which then evolves into a unique subjective reality. All subsequent conscious (and unconscious) action is modulated by this integration. If the neuropsychological integration be analogous to digital circuitry, then the unique individual design of the circuitry is a product of all prevailing influences at the time of its origin, in the context of the nature-nurture dynamic. The unique circuitry and its inherent bias will subsequently select out elements in the environment which are synchronous with its configuration.

Quantum systems have been shown to incorporate the energy equivalents of all physical entities (referred to as basis/base states). As proposed previously, the energy equivalent representation of physical elements incorporates all the potential for materialization and is referred to as superposition. Consequent upon attempts at directly and consciously quantifying the singularity and its intrinsic superposition, all prevailing potential regarding a specific entity/dynamic is collapsed into relativistic physicality (base state). The wave of potential energy in superposition is said to have been collapsed.

Wave collapse, it is argued, applies both to the collapse of statistical possibilities (infinite possibilities as opposed to zero alternative possibilities) as well as to the collapse of the wave frequency (energy) reflecting the specific entity. The newly formed relativistic entities then become new substrate for oscillation with the singularity and thereby contribute to the prevailing superposition potential. In the context of this discussion it is proposed that wave collapse refers to a combination of both the identification of the basis state of an entity following measurement of quantum superposition together with the experimental findings of the conversion of a wave state in the double slit experiments into the particulate state following measurement. The latter has recently been demonstrated again by Radin (Radin et al, 2016) and has also been demonstrated with particles of atom size (Manning et al., 2015). The wave collapse of measured, entangled entities following simultaneous measurements at two distant locations has also recently been demonstrated. (Fuwa et al., 2015).

The physical brain and its circuitry also oscillates between the relativistic and singularity domains. It is proposed that while within the singularity, entities recorded in the neuro-circuitry together with the entities themselves in their energy forms, resonate with each other. On return to the relativistic domain, changes in both the entities themselves as well as their representative recorded neuro-circuitry, occur. In this way the wave of superposition is collapsed for the specific entities. Entities that have resonated together within the nonlocality milieu of the singularity and are mutually changed by the interaction are referred to as being entangled. In this context it becomes apparent therefore that the brain and the process of consciousness that

it supports, functions as a convergence point which influences the recorded physical entities within its circuitry as well as the entangled entities themselves. The configuration of the neuro-circuitry in each brain is unique. Consequently the brain and the process of consciousness which it supports therefore becomes a unique source of frequency (energy) coherence. This unique coherence of frequencies represents the contribution of each individual to singularity superposition. The resultant unique interference pattern also represents the specific identification of the individual consciousness within the singularity in the form of a carrier frequency.

While we accept that the DNA of each cell of the organism codes for the proteins required for the structure and function of life, this template cannot in itself co-ordinate and regulate the differentiation of the organism into its multiple components, from the time of conception through maturation. It becomes obvious therefore that some co-ordinating and regulating influence would need to become operative at the time of conception and thereafter throughout the embryogenesis process until maturation.

Based on the work of Burr (Burr, 1972) and subsequently Becker (Becker & Seldon, 1985), there is strong evidence in support of the hypothesis that an electric field provides the template for tissue growth and differentiation. The initial biological electric field is derived from the fusion of the respective fields of the sperm and ovum, which themselves are products of the parental fields. In the context of the Universal Oscillation theory, the newly formed zygote immediately resonates with its singularity-based energy equivalent. The zygote incorporates all the necessary coding required for development and maturation. Therefore the singularity-based energy equivalent, which is independent of time and space, would be representative of all the components associated with the final structural and functional form of the organism. In this way the energy equivalent form of the early zygote would already resonate with similar but mature life forms. On this basis, the Universal Oscillation dynamic is proposed as the co-ordinating influence, regulating the electric field template of life and thus the maturation of the organism. As the organism matures, the electro-chemical processes of life will contribute to its primordial electric field template.

Fundamental to integrating the brain and the consciousness that it supports into the relativity-singularity dynamic, is an understanding of memory storage in the neuro-circuitry. The key to understanding the process of memory storage is the appreciation of the interplay of genetic expression with activated, stereotyped neuronal cells. It has been shown that primordial neurons differentiate in response to genetically determined induction factors. Of significance in this regard is the finding that neuronal differentiation is dependant upon location within the developing neural tube. Following differentiation, neuronal cell processes migrate to specifically predetermined destinations under the influence of cell-

derived guidance factors (Jessell & Sanes, 2000). I would propose that the guidance factors also incorporate electric field influences.

From these observations it can be extrapolated that neuronal populations are stereotypically configured in terms of their anatomical location to represent specific functions or bytes of information. The initial stimulation of a given neuron occurs therefore as a result of the location of the neuron within a neuronal network or integration, which is genetically determined. The configuration of synaptic connections is also genetically determined. Consequently a given neuron and its connections, when stimulated, immediately represents a pre-programmed byte of information. The genetic transcription of prion-like proteins to establish permanent synaptic connections completes the hard-wiring process (Si et al., 2003). In this way memory storage is a product of precise, stereotyped neuro-anatomical location and the subsequent transcription-driven imprinting and labelling of the neuron when triggered with a byte of information appropriate for that specific neuron within the integration. In other words, a given neuron represents a convergence point for specific representation of information by virtue of its genetically determined, stereotyped anatomical location and its position within a synaptic integration.

The brain has an inherent frequency which is partially measurable as the electroencephalogram (EEG). The frequency at the origin of life would by definition be a representation of the complete neuronal configuration prior to the commencement of *reactive neurological activity*. Reactive neurological activity refers to the process in which sensory structures convey electro-chemical information to the appropriate sensory areas of the brain; sensory areas are then integrated within themselves and with other sensory association areas; higher levels of understanding develop, based on the labelling and recording of associations. In this way a unique subjective world view develops.

Neuro-physiological activity reflects the activation of growing and connecting neuronal processes. Conversely post-maturation, diminishing neuro-physiological activity reflects the involution and loss of neuronal processes and connections. Changes in the volume of cells and connections would result in changes of the intrinsic conductivity of the brain locally and as a whole. This would then manifest as changes in overall electric field properties of the organ. It becomes apparent therefore that every new neuronal connection based on sensory labelling and sensory association will change the electric field properties inclusive of frequency, in some minute but discernible way. These micro-electric changes by definition denote the micro-bytes of information represented by the specific neuronal connection and thus the entity coded thereby.

It is therefore proposed that stored memory is not a function of a specific chemical or of a specific circuit characteristic. Rather, memory is the change in the prevailing electric field characteristics resulting

from changes in the micro-conductance of specific neuronal connections supporting that association. In this way our primordial electric field dynamic is changed by our subjective neuropsychological experiences. Following on from the observed phenomenon of the influence of electric fields on cellular processes, it can be extrapolated that the collective neuro-electric field contributes to the co-ordination of neurological function. In other words the collective neuro-electric field is both a product of the micro-neuronal processes as well as a source of stimulation and co-ordination at the integrated neuronal level. Studies have demonstrated degrees of electrical coherence existing between distantly located neuronal systems (Canolty et al., 2010). In this way the resultant neuro-electric field reflects an interference-based standing wave at any given point in time and space. It therefore provides form for the multiple inter-neuronal connections which is subsequently monitored at the level of the central focus (thalamus-hippocampal complex). This process is analogous to the generation of a 'Word document', the form of which represents the standing interference wave resulting from multiple electrical computer connections. The connections in themselves would be unintelligible. The form of the 'Word document' can also be transmitted and reproduced by subsequently co-ordinating the supporting connections in another computer.

In the context of the Universal Oscillation dynamic, the new neuronal connections and the changes in electric conductance manifest in the singularity as newly created bytes of integration. It is postulated that the resulting incremental electric field changes resulting from integrations representing labelled entities are programmed by the Universal Oscillation dynamic at the outset to equal resonance energy/frequency values of the entities that are represented. As a consequence, within the singularity the energy equivalence of the field changes resulting from the integration process of the represented entity has energy/frequency properties which support resonance with the energy equivalent of the specific entity itself. Following on from this dynamic, the carrier frequency of the individual consciousness would become imprinted upon the entity itself on returning to the relativistic environment – wave collapse of the superposition of a specific component. In a similar way the energy equivalent state of entities within the singularity may trigger the representative neuronal processes representing those integrated entities when the energy value is supportive of resonance.

The hippocampus is the structure involved in the storing and retrieval of stored memory. Its anatomical position facilitates the conduction of radial connections to and from the entire cortex. There is evidence to suggest that the hippocampus itself catalogues representation of all information stored in the cortical integration. The hippocampus as a relativistic structure is also subject to Universal Oscillation. It is proposed therefore that within the singularity, the energy equivalence of the circuitry-induced field changes representing catalogued hippocampal entities resonates with the energy equivalence of the circuitry-

induced field changes representing entities in the cortex. On returning to the relativistic brain, memory recall will take place at a much faster rate than would have occurred through radial cortex-hippocampal neuronal conduction alone. In real terms therefore individual, unique consciousness exists simultaneously within the neuronal processes of the brain; within the resultant neuro-electric field; within the body (somatic) resultant field and chemistry; within all entities that have been perceived, labelled and imprinted; eternally within the singularity.

TIME

In the relativistic domain, time in terms of past, present and future is defined on the basis of sequential wave function collapse. As superposition is collapsed into a relativistic frame, an event is recognized and labelled in the context of sequential wave collapse. In this way an arrow of sequential process is identifiable. Past, present and future are thus relative positions on a unidirectional process.

The singularity domain represents perpetually resonating, quantum superposition energy-frequency. Through the Universal Oscillation process, segments of this energy are repeatedly collapsed into the relativity domain and immediately return as further energy-frequency superposition potential. Energy-frequency changes resulting from wave collapse and new superposition potential will affect all resonating energy. Therefore energy-frequency resulting from previous superposition collapse becomes influenced by subsequent 'new' superposition. The singularity however represents an infinite present. It is also much more vast than the segments involved in the wave collapse of superposition potential.

When viewed from the relativistic perspective, the singularity incorporates elements of past and present wave collapse and newly established superposition, together with influences from future superposition, devoid of wave collapse. Theoretically therefore past wave collapse may be influenced and modified by wave collapse in the present but the influence on the future singularity dynamic will only be in the form of a contribution to collective superposition.

DEATH

A condition for the perpetual oscillation of consciousness between its relativity-based physical form and its energy equivalent within the singularity is that there needs to be an intact and resonantly perfect physical/organic brain receptacle. If neural circuitry is lost, the energy equivalent of that represented by the lost circuitry remains in the singularity as unique energy - the carrier frequency. Following whole brain death the extreme situation will occur in which none of the energy equivalent of the entire neuropsychological circuitry can be returned to the relativity-based physical brain. In the singularity, the

energy-based equivalent of consciousness would become re-united with previously lost quanta and regain its complete energy-based format.

It is postulated therefore that the unique interference pattern of each individual persists independent of physical death in the singularity. Data which is integral to this nonlocality milieu assumes timeless and spaceless properties. The data also retains its integrity by virtue of its unique interference pattern. The persistence of this data in the form of energy-frequency, supports resonance within the nonlocality, singularity milieu and between the singularity and the relativistic milieu. A possible illustration of this hypothesis is that of 'terminal lucidity'. Terminal lucidity refers to a period of lucidity and clarity which occurs in the final hours before death in some individuals suffering from Alzheimer's disease and in other chronic neuropsychological disorders characterized by cognitive impairment (Nahm et al., 2011). In most of these cases there is radiological evidence of gross volume loss (atrophy) of brain tissue. I would propose that these individuals reach a threshold loss of mentation such that the signal to noise ratio of singularity-based energy-frequency data is significantly raised. With a functioning hippocampus they begin to resonate with the energy equivalent of lost circuitry. In effect this reflects the reconciliation of the last of the relativity-based organ with its complete nonlocality equivalent.

DISCUSSION

The nonlocality properties of the singularity is the subject of ongoing research (Radin, 2004). Einstein's "Spooky action at a distance" has been validated in several studies such that the dimension of nonlocality is now recognized as an integral component of an extended and integrated environment (Sheldrake et al. 2004). In order to incorporate these findings into an extended environmental dynamic, a heuristic model has been proposed, based on the hypothesis that the entire universe perpetually rotates with diminishing angular velocities as one moves along a radius towards the outer circumference. At a critical circumference within the ergosphere of a centrally rotating Black-hole the angular velocity is in the peri-luminal range. Through circumferential increments along this given circumference, matter forms into black holes and emerges into singularity. An instantaneous transfer of information takes place in the singularity through probable resonance of representative energy quanta. Due to incremental changes of force and acceleration along the circumference, angular velocity will diminish intermittently facilitating the re-materialization of matter into the relativistic dimension. The re-materialization of matter is associated with the emission of energy which contributes to the expansion of the universe, Brownian movement and further prevents the collapse of the atom. This energy which derives from emission is proposed as contributing to the source of

Dark Energy. Dark Energy *inter alia* serves to maintain the angular velocity of rotation of the universe and thereby, the emergence into singularity.

The human brain and the process of consciousness that it supports may be viewed as a convergence point, bridging the dimensions of relativity and singularity. The application of the oscillation dynamic in the context of neuro-physiology provides a possible explanation for the wave function collapse of quantum superposition potential. As this process continues, the database of the singularity represented by resonating energy-frequency becomes enhanced. The new states of quantum superposition in turn provide substrate for further wave function collapse into relativity.

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