The ‘Computational Unified Field Theory’ (CUFT) Transcends Relativity’s Speed of Light Constraint

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Abstract

A new ‘Computational Unified Field Theory’ (CUFT) recognized as a satisfactory ‘Theory of Everything’ (TOE) is based on a new ‘A-Causal Computation’ Paradigm in 21st Century Theoretical Physics: It postulates the existence of a singular ‘Universal Consciousness Principle’ that computes- sustains- and evolves- every exhaustive spatial pixel in the universe at every minimal time-point (“c^2 h”= 1.56-42) comprising an extremely rapid series of ‘Universal Simultaneous Computational Frames’ (USCF’s). Based on the CUFT’s “Individual Human Consciousness Expansive Spectrum Hypothesis” (IHCESH) postulating that Individual Human Consciousness possesses the potential to “expand” its functioning akin to the ‘Universal Consciousness Principle’s’ instantaneous (simultaneous) computation of every exhaustive spatial pixel in the entire physical universe at each minimal time-point USCF’s frame/s; or produce a continuous effect across a series of USCF’s frames at the cumulative rate of “c^2 h”= 1.56-42 the CUFT is shown to challenge Relativity’s strict “Speed of Light Barrier” for the transmission of any signal (or physical effect) across “space and time”! Theoretical implications of this new conception of the CUFT of the origin- sustenance- and evolution- of the entire physical cosmos solely based on the operation of the Universal Consciousness Principle, and of our Individual Human Consciousness which is shown to not be “separated” from this Universal Consciousness Principle are further discussed.

1. Introduction

Undoubtedly, the biggest unresolved enigma in modern Science is the principle theoretical contradiction that exists between Relativity Theory and Quantum Mechanics [1, 2]; Indeed one (of the three) theoretical inconsistencies between RT and QM [3-23] is Relativity’s insistence upon the principle inability of any signal to travel faster than the speed of light-which is contradicted by QM’s empirically validated “quantum entanglement” phenomenon which indicates that it is in fact possible for an entangled particle to be affected by a subatomic measurement of its “sister-particle”, i.e., wherein the transmission of information (at least) transcends the speed of light barrier (imposed by Relativity Theory)! Thus, modern Theoretical Physics finds itself in an “impossible” predicament wherein its two primary pillars, QM and RT are both accepted as valid-yet they seem to contradict each other, with the above mentioned principle contradiction between RT’s speed of light rigid constraint imposed upon the travelling of any signal (or object) being contradicted (and in fact empirically validated) through ‘quantum-entanglement' phenomenon’s indication that in some manner information can travel “instantaneously” across space and time, i.e., transcending this speed of light barrier imposed by RT.
Perhaps a good place to begin the quest for a satisfactory resolution of this basic RT-QM theoretical inconsistency is by Quoting the father of both QM and RT, Albert Einstein’s foresight regarding the “fate” of his RT: “No better destiny can be allotted to any physical theory than it should become a specific case in a broader generalization”! Indeed, Einstein was the first theoretical Physicist who began his lifelong quest towards discovering a “Unifying Field Theory” over one hundred years ago. Thus, Einstein paved the way towards finding a satisfactory “Unifying Field Theory” which could resolve the principle theoretical inconsistencies between QM and RT, i.e., which would obviously include also a resolution of the above mentioned apparent contradiction between Relativity’s strict insistence upon the impossibility of transmitting a signal faster than the speed of light—as opposed to QM’s validated ‘quantum-entanglement’ empirical phenomenon (e.g., which indicates an “instantaneous” transmission of information across space and time. Indeed, such a satisfactory “Theory of Everything” [24, 25, 26], has been discovered over the past five years entitled: the ‘Computational Unifying Field Theory’ (CUFT) [3-23] which was shown capable of resolving the principle theoretical inconsistencies between RT and QM, was empirically validated [27] as a satisfactory ‘Theory of Everything’ (TOE) fully integrate them within the framework of a singular (higher-ordered) Universal Computational Formula and transcend some of their basic theoretical assumptions, i.e., including: challenging the “dark-matter”, “dark-energy” (“superfluous”) assumptions, the “Big-Bang Theory”, the ‘Laws of Conservation’ and indicate the theoretical possibility of “time-reversal”.

Indeed, the aim and purpose of the current article is to advance another (potentially far-reaching) theoretical conclusion wherein it may be possible (according to the CUFT) to transcend Relativity’s currently acceptable “speed of light” barrier for the transmission of information across space and time! In a nutshell, the manner in which this article will evince this (seemingly “radical”) conclusion is through the CUFT’s well-established discovery of the singular (higher-ordered) Universal Computational/Consciousness Principle which simultaneously computes every exhaustive spatial-pixel in the physical universe (e.g., thereby negating the possibility of any “material-causal” physical relationship/s at both quantum and relativistic levels); which coupled with the CUFT’s recently discovered ‘Ontological Relativism’ and ‘Individual Human Consciousness Expansive Spectrum Hypothesis’ (IHCESH) may point at the possibility to “transmit” information “instantaneously” across space and time! At a more basic theoretical level, the CUFT’s resolution of the RT-QM inconsistency invariably points at the singular higher-ordered Universal Computational/Consciousness Principle which necessarily transcends RT’s currently assumed “speed of light information transmission barrier”, i.e., as this Universal Consciousness Principle is shown to compute all exhaustive spatial-pixels in the physical universe “instantaneously”, thereby transcending this “speed of light information transference constraint”.

2. The CUFT’s Resolution of the QM-RT Theoretical Inconsistency

One of the key theoretical postulates of the CUFT is the computational ‘Duality Principle’ which unraveled a basic “computational flaw” underlying both RT and QM—and also pointed at the existence of a necessary (higher-ordered) singular ‘Universal Computational Principle’ which solely computes all quantum and relativistic physical relationship/s [3-23]; Succinctly stated, this Duality Principle evinced that both QM and RT are based upon a “material-causal” assumption wherein it may be possible to determine the physical relationship between any given subatomic ‘target’ and ‘probe’ elements or between any hypothetical relativistic ‘observer’ and (space-time or energy-mass) ‘Phenomenon’—strictly based on their direct (or indirect) physical interactions. But, according to the Duality Principle this “material-causal” assumption produces a “Self-Referential Ontological Computational System” (SROCS) which inevitably leads to both “logical-inconsistency” and ensuing “computational indeterminacy”, which was shown to be contradicted by robust empirical evidence indicating the capacity of both QM and RT computational systems to determine the value of the subatomic ‘target’ and of the relativistic ‘phenomenon’.

Hence, the computational ‘Duality Principle’ proved that the currently assumed ‘SROCS’ computational structure of both QM and RT is “flawed” (e.g., leads to an inevitable ‘logical inconsistency’ and ensuing ‘computational indeterminacy’ which are contradicted by robust empirical evidence indicating these computational systems capacity to determine the value/s of any given relativistic ‘space-time’ or ‘energy-mass’ Phenomenon or subatomic ‘target’ element)—instead pointing at...
the existence of a singular higher-ordered Universal Computational Principle which simultaneously computes the “co-occurrence” of any exhaustive subatomic ‘probe-target’ or relativistic ‘observer-Phenomenon’ pairs, e.g., at any minimal time-point (single or multiple) USCF’s frame/s. Indeed, this simultaneous computation of every exhaustive (quantum or relativistic) spatial pixel in the physical universe brought with it a recognition of the embedding of Relativity’s (and QM’s “particle”) “single- spatial-temporal” computation of any (space-time or energy-mass) Phenomenon-within the broader multiple spatial-temporal” Quantum Mechanical “wave” computational measurement (e.g., of more than one spatial-temporal point at any given point in time): within the “exhaustive spatial-temporal” computation of any (single or multiple) USCF’s frame/s. Thus, the basic theoretical contradiction speed that seems to exist between QM’s “quantum entanglement” phenomenon, e.g., indicating that it is possible for two (previously) “entangled particles” to transmit information “instantaneously” across space and time-and Relativity’s “speed of light constraint” imposed on such transmission: can be resolved through the Computational Unified Field Theory’s broader perspective which embeds both Relativity’s insistence upon the displacement of a “single spatial-temporal” relativistic “object” being constrained by the speed of light barrier, and Quantum Mechanics broader “multi spatial-temporal wave” computational perspective which comprises multiple such interconnected (single spatial-temporal) “objects” such as entangled particles! In other words, it is only when we look at a single spatial-temporal particle which the strict constraint of the speed of light barrier applies; But, when we look at the broader “multi spatial-temporal wave” computational measure-what seemed as “entangled particles” in truth represent multiple “single spatial-temporal particles” comprising the whole wave measurement; Therefore, “quantum entanglement”- in truth refers not to the transmission of a particle at a velocity transcending the speed of light, but rather a “multi spatial-temporal wave” measurement which comprises multiple “particles” so that a measurement of one of these embedded particles would automatically indicate the physical properties of an equivalent “entangled” particle (i.e., truly simply referring to an equivalent particle within the same underlying “wave”!) 

Importantly, though, both those single- “particle/s” and multiple- “wave” spatial-temporal computational measures are embedded within the exhaustive computational framework of the Universal Computational Principle’s simultaneous computation of all exhaustive spatial-pixels comprising the entire physical universe at every minimal time-point (c/h) constituting any single or multiple USCF’s frame/s! In fact, the above mentioned empirical phenomenon of “quantum entanglement” is really due to the Universal Computational Principle simultaneous computation of all spatial-pixels in the physical universe-because this implies that any two “equivalent” (single spatial-temporal)”particles” comprising the same (multiple spatial-temporal) “wave” displacement” are computed simultaneously by the singular Universal Computational Principle; Moreover this simultaneous computation of the Universal Computational Principle applies not just to all of the single spatial-temporal “particles” comprising a given multi spatial-temporal “wave” measure but to all exhaustive spatial-pixels in the physical universe (e.g., at any minimal time point comprising a single or multiple USCF’s frame/s)! Hence from the singular higher ordered perspective of the Universal Computational Principle the entire physical universe is produced simultaneously-i.e., without passage of time (at all) for each singular USCF frame! 

Indeed, this simultaneous computation of all spatial-pixels in the physical universe (at every minimal time-point, e.g., c/h USCF frame) is what explains both the phenomenon of “quantum-entanglement” (of two “entangled” ‘single spatial-temporal particles’ comprising a ‘multi spatial-temporal wave’ measurement) - and expands to include all spatial pixels in the cosmos (at any such minimal time point USCF frame)! This implies that from the perspective of this singular Universal Computational/Consciousness Principle there does not exist any “speed of light barrier” for the transmission of information- i.e., as the whole universe is computed- and re-created- with every new USCF frame simultaneously! Note however, that this simultaneous transmission of the entire exhaustive computation of all exhaustive spatial pixels comprising the entire physical universe-does not negate the fact that for a single spatial-temporal “particle” such as a photon of light it is not possible to travel faster than the speed of light (e.g., as Relativity Theory asserts); But, this is precisely where the full integration- and indeed transcendence- of both Quantum Mechanics and Relativity Theory is consumed within the CUFT: It is due to the fact that the Computational Unified Field Theory broadens its computational perspective beyond the single spatial-temporal subatomic “particle” (of QM)
and “relativistic observer” (of Relativity Theory), and beyond the broader Quantum Mechanical computational perspective of a “probability wave function”, e.g., relating to a “multi spatial-temporal wave measurement”-towards its exhaustive picture of the Universal Computational Principle’s computation of all exhaustive spatial pixels in the physical universe at any minimal time-point (c^2/h) comprising any single or multiple USCF’s frame/s that it discovered the full integration of both of these RT and QM Models of the physical reality in the form of the Universal Computational Formula describing this extremely rapid computational process of this singular (higher-ordered) Universal Computational/Consciousness Principle of the series of the USCF’s frames, i.e., which occurs at the fantastic rate of c^2/h = 1.56-42!

This means that the fuller computational perspective of the simultaneous computation of the Universal Computational/Consciousness Principle-of every exhaustive spatial-pixel in the physical universe takes on the form of this Universal Computational Formula which asserts that at every minimal time-point (c^2/h = 1.56-42!) the entire physical universe is re-computed and re-created by this Universal Computational/Consciousness Principle simultaneously! Therefore, it is only from the rather limited computational perspective of the single spatial-temporal (subatomic) “particle” or (relativistic space-time or energy-mass) “Phenomenon” that Relativity’s speed of light barrier exists! This is because from the broader exhaustive perspective of the Universal Computational/Consciousness Principle’s computational perspective the entire physical cosmos is produced (computed) simultaneously-at the progressive USCF’s series rate of c^2/h = 1.56-42! Thus, from this singular higher-ordered perspective of the Universal Computational/Consciousness Principle its transmission of any single USCF’s frame of all spatial pixels in the universe is simultaneous, and its production (computation) of a progressively computed- and re-computed physical universe e.g., based on its computation of the incredibly rapid series of USCF’s frames-at c^2/h = 1.56-42! ; In any event at a much higher rate than the speed of light (“barrier”).

Hence, the Computational Unified Field Theory’s resolution of the principle theoretical contradiction that seems to exist between QM and RT (e.g., associated with the “speed of light barrier” imposed by Relativity Theory as opposed to QM’s “instantaneous” transmission of information across space and time as demonstrated by the ‘quantum entanglement’ phenomenon)-points at the existence of the singular higher-ordered Universal Computational/Consciousness Principle which computes the entire physical universe simultaneously (at a progressive USCF’s series rate of c^2/h = 1.56-42!), and embeds within it the more limited computational perspectives of Relativity’s single spatial-temporal “relativistic (space-time or energy-mass) Phenomenon, e.g., constrained by the speed of light barrier and the more expansive subatomic “multi spatial-temporal wave” measurement-which has given rise also to the discovery of the “quantum-entanglement” phenomenon (e.g., hinting at the Universal Computational/Consciousness Principle’s simultaneous computation of all spatial pixels in the universe-including those comprising equivalent spatial pixels across the ‘multi spatial-temporal wave’ measure).

Hence, we see that when viewed from the singular higher-ordered perspective of the Universal Computational/Consciousness Principle, the apparent limitation imposed upon the transmission of information as constrained by the speed of light-does not apply! Instead, the Universal Computational/Consciousness Principle computes and produces all spatial pixels in the universe instantaneously and simultaneously-i.e., for each single USCF frame, and produces the continuous series of USCF’s frames at the incredible rate of c^2/h = 1.56-42! So, then the question becomes-is it possible for us to utilize this “greater than the speed of light” transmission of information, e.g., produced by the Universal Computational Principle?! In order to answer this important question we need to reexamine some of the basic theoretical postulates of the Computational Unified Field Theory, and their complete revision of our basic concepts of “space”, “time”, “energy” and “mass”;

3. The Universal Consciousness Principle Transcends the Speed of Light!

The key point that emerges, therefore, from the abovementioned analysis of the operation of the Universal Computational/Consciousness Principle is that it definitely transcends the “speed of Light Barrier” imposed by Relativity Theory! In fact, a closer analysis of this Universal Consciousness Principle reveals that it (in effect) broadens and extends the empirically validated phenomenon of “Quantum Entanglement” (discussed above) towards all exhaustive spatial pixels in the physical universe-which are shown to be all computed simultaneously by this Universal Consciousness Principle (e.g., at any minimal time-point single or multiple USCF’s
frame/s)! Indeed, it is this (singular higher-ordered) exhaustive computational perspective of this Universal Consciousness Principle, (e.g., of all spatial pixels in the physical universe at every minimal time-point, c²/h = 1.56-42!) shown to embed within it both Relativity’s “single spatial-temporal” ‘object’ (and Quantum’s corresponding “particle”) computational stance and Quantum’s “multi spatial-temporal” ‘wave’ stance, which can therefore explicate the proper “special-case” of Relativity’s asserted “Speed of Light Barrier”; This is because according to this broader, exhaustive computational perspective of the Universal Consciousness Principle this ‘Speed-of-LightBarrier’ asserted by Relativity Theory only applies when we look at a single spatial-temporal ‘object’ (or particle), i.e., across any two subsequent USCF’s frames. In fact, it is the specific combination of this single spatial-temporal ‘object’ “square of the speed of light” (barrier): “c” -i.e., corresponding to the “maximal degree of change” (or displacement) across any two subsequent USCF’s frames, together with Quantum’s asserted “quanta”, i.e., Planck’s (minimal) constant: ‘h’, corresponding to the CUFT’s computational definition of the “minimal degree of change” across two subsequent USCF’s frames-which are integrated together to represent the Universal Computational Formula’s indication of the Universal Computational/Consciousness “rate of computation” of a series of USCF’s…So, perhaps in line with Einstein’s own recognition that his Relativity Theory may become a “specific case in a broader generalization…” the CUFT brings about a broader and exhaustive understanding of the interposition of Relativity’s ‘single spatial-temporal’ ‘object’ (and Quantum’s ‘particle’) computational perspective as constrained by the speed of light-within the broader ‘multi spatial-temporal’ computational perspective of Quantum’s ‘wave’ computational stance: Indeed, it was shown that it is this broader ‘multi spatial-temporal wave’ computational stance which embeds within it the single spatial-temporal ‘particle’ computational perspective-which was shown to explain the empirically validated phenomenon of “Quantum Entanglement”, i.e., since two “entangled particles” represent equivalent single spatial temporal ‘particle’ values along the same multi spatial-temporal wave measurement… As such, the famous “quantum-entanglement” phenomenon does not arise as a result of the transference of a signal or of information between the two particles (e.g., instantaneously), but rather signifies the fact that when we look at equivalent single spatial-temporal “particle” measures along the same underlying ‘multi spatial-temporal wave measure’ we necessarily find the same “complimentary values”! In fact, it was due to the CUFT’s discovery of the Universal Computational/Consciousness Principle’s “A-Causal Computation” (e.g., of all exhaustive spatial pixels in the physical universe at any minimal time point) that negated the possibility of the existence of any “material-causal” physical interaction within any single or multiple USCF’s frames between any two or more spatial-pixels, corresponding to the negation of the existence of any “material-causal” physical interaction at either the relativistic or quantum levels! Instead, it was shown that it is only due to the Universal Computational/Consciousness Principle’s simultaneous computation of all (exhaustive) spatial-pixels in the physical universe that all apparent single- spatial-temporal ‘object’ or ‘particle’, multiple-spatial-temporal ‘wave’, and indeed exhaustive spatial-temporal USCF’s computational stances are fully integrated and embedded together (within the USCF’s exhaustive computational perspective). Therefore, when we finally realize that the Universal Computational/Consciousness simultaneously computes all exhaustive spatial-pixels in the physical universe we must reach the inevitable conclusion that from its singular higher-ordered computational ‘A-Causal Computation’ perspective there does not exist the speed of light barrier, in fact every spatial pixel in the physical universe is simultaneously computed! We thus reach the inevitable conclusion that the production of all spatial-pixels and the elicitation of information across any exhaustive spatial pixel in the universe does not require any “time”, i.e., it not constrained by the speed of light or in fact by any speed at all, as it occurs simultaneously! Thus, from the perspective of this singular higher-ordered Universal Computational/Consciousness Principle the communication of information at all spatial pixels in the universe is instantaneously! The key ensuing question is off course: is it possible to harness or utilize this instantaneous transmission of information throughout the entire physical cosmos for us as human-beings or through our scientific instrumentation or methodologies?!

4. The ‘Computational Invariance Principle’ and ‘Universal Consciousness Principle’

In order to advance towards resolving this significant question pertaining to our human and scientific capacity to harness the Universal Computational/Consciousness Principle’s instantaneous computation of all exhaustive spatial pixels in the physical universe (e.g.,
at any minimal time-point $c^2/h = 1.56^{42!}$, let us focus our scientific investigation upon two of the CUFT’s relevant theoretical postulates, namely: the ‘Computational Invariance Principle’ and its associated ‘Universal Consciousness Principle’ (e.g., which would lend itself to a subsequent analysis of the recently discovered ‘Individual Consciousness Expansive Spectrum Hypothesis’, ICESH, that will be shown capable of harnessing some of the Universal Consciousness Principle characteristics towards human capacities); The Computational Invariance Principle asserted that since it is only the Universal Computational Principle which may be regarded as “computationally variant”, e.g., existing both “during” each USCF frame-solely giving rise to the four physical features of “space”, “time”, “energy” and “mass”, and also singularly existing solely “in-between” any two USCF’s frame/s; Whereas these four physical features of ‘space’, ‘time’, ‘energy’ and ‘mass’ exist only “during” each USCF’s frame/s (as solely produced by the Universal Computational Principle) but not “in-between” them, then the Computational Invariance Principle deducted (akin to an application of “Ockham’s Razor” basic scientific principle) that only the ‘Universal Computational Principle’ may be regarded as “permanent” and “real”, whereas those four physical features may only be regarded as “transient” and “phenomenal”...This Computational Invariance Principle therefore implied that the four physical features associated with each of the exhaustive spatial pixels comprising the physical universe may only be regarded as “transient” and “phenomenal”- i.e., only existing as a manifestation of the singular ‘computationally invariant’ sole reality of the Universal Computational Principle, which singularly exists “during” each of the USCF’s frames (giving rise and totally comprising the four physical features associated with every exhaustive spatial pixel in the physical universe) and solely existing “in-between” any two subsequent USCF’s frame/s!

One of the far reaching theoretical implications of this Computational Invariance Principle were that since the entire physical universe does not exist “in-between” any two subsequent USCF’s frames (because each of its spatial pixels comprising the four physical features do not exist “in-between” any two subsequent frames) then we reach the inevitable conclusion wherein the production- sustenance- and evolution- of each exhaustive spatial pixel in the physical universe is solely and singularly computed by the Universal Computational Principle! But, since this implies that this Universal Computational Principle possesses all of the characteristics of a Universal Consciousness, the Universal Consciousness Principle asserted that indeed the Universal Computational Principle is transformed into a Universal Consciousness Principle, implying that every exhaustive spatial pixel in the physical universe is computed- sustained- and evolved- solely based on this Universal Consciousness Principle’s capacities. Indeed, implied within this transformation of the ‘Universal Computational Principle’ to the Universal Consciousness Principle is the realization that the entire physical universe does not “exist”-in and of itself as a mere “objective physical reality”, i.e., since it comprises of the four basic physical features of ‘space’, ‘time’, ‘energy’ and ‘mass’ (at each of its exhaustive spatial pixels) which were shown to represent “phenomenal-transient” features (that exist only “during” the USCF’s but not “in-between” them); Instead, the physical universe (and every exhaustive spatial pixel within it) are constantly and continuously being produced- sustained- and evolved- by this Universal Consciousness Principle, which is the sole “animating”, “sustaining” and “evolving” reality underlying the apparent reality of the physical universe.

5. The Universal Consciousness’ ‘A-Causal Computation’ Physics

Indeed, this “dramatic” new conception of the physical universe-not as existing as an “objective physical reality” but rather as a “transient-phenomenal” (“computationally variant”) manifestation of the sole and singular Universal Consciousness Principle that both produces- sustains- and evolves- every exhaustive spatial pixel in the universe “during” each single or multiple USCF’s frame/s (at every minimal time-point $c^2/h = 1.56^{42!}$) and also exists solely “in-between” any two USCF’s frames has also led to an important realization regarding the new A-Causal Computation Paradigm underlying Theoretical Physics! This new ‘A-Causal Computation Paradigm’ brought about a profound revision of the two major pillars of Modern Physics, namely: Relativity Theory and Quantum Mechanics, e.g., essentially pointing at the simultaneous computation of all spatial pixels in the physical universe at any minimal time-point by the Universal Computational/Consciousness Principle, thereby negating both Relativity Theory’s and Quantum Mechanics’[30] “material-causal” basic assumption; As shown previously, this new ‘A-Causal Computation’ Paradigm in Theoretical Physics stemming from the Universal Computational Principle’s simultaneous computation of all exhaustive
spatial pixels in the physical universe (at every minimal time point $c^2/h = 1.56^{-42}$) necessarily brings about a basic revision of the ‘material-causal’ assumptive foundations of both Relativity Theory and Quantum Mechanics: In Relativity Theory, the new ‘A-Causal Paradigm’ revises Relativity’s ‘material-causal’ thesis which explains the dynamics of the physical universe as “caused” by the direct physical interactions between ‘massive objects’ which “cause” the ‘curvature of space-time’, and vice versa. Based on the CUFT’s new ‘A-Causal Computation’ Paradigm it was shown that the origin- sustenance- and evolution- of the physical universe-cannot be due to any such “material-causal” physical interaction between any ‘massive objects’ and the ‘curvature of space-time’ (or vice versa) due to the fact that at every (single or multiple) USCF’s frame/s the Universal Computational Principle computes simultaneously all exhaustive spatial pixels in the physical universe thereby precluding any such ‘material-causal’ interactions! Instead, the CUFT’s new ‘A-Causal Computation’ Paradigm explains the curvature of space-time, the movement pathways of massive objects-and indeed the origin- sustenance- and evolution- of the entire physical cosmos as singularly produced by the Universal Consciousness Principle’s simultaneous computation of every spatial-pixel in the entire physical universe at every minimal time-point ($c^2/h = 1.56^{-42}$ ); Thus, instead of the ‘Big-Bang’ Theory which assumes that it was the initial ‘Big-Bang’ nuclear explosion (e.g., presented at the first hypothetical USCF frame) which “caused” the (second USCF frame’s) “formation” and “expansion” of the first suns, planets, galaxies etc.-the CUFT’s newly discovered (and empirically validated) singularity of the Universal Consciousness Principle’s simultaneous ‘A-Causal Computation’ (of all exhaustive hypothetical spatial pixels in the physical universe) negates the possibility of the existence of any “material-causal” physical interactions between any two (or more) spatial-pixels found either within the same USCF’s frame or across any two (or more) different USCF’s frames, e.g., thereby negating the (currently assumed) ‘Big-Bang Theory’! (Once again, to utilize the abovementioned ‘Cinematic Film Metaphor’, in which it is clear that there cannot exist any “causal” relationship/s between any spatial presentation in any single given frame and any subsequent single or multiple frame/s-so pertaining to the Universal Computational/Consciousness Principle likened extremely rapid production of the series of USCF’s frames, it is made clear that this Universal Consciousness Principle’s simultaneous rapid production of all exhaustive spatial pixel comprising any single or multiple USCF’s frames precludes the possibility of the existence of any equivalent “material-causal” relationship/s between any ‘Big-Bang’ nuclear explosion found within a particular first USCF’s frame and any subsequent USCF’s spatial pixels configuration of the formation- or expansion- of the spatial pixels comprising any single or multiple subsequent USCF’s spatial-pixels presentation) [3-23] In much the same manner, the currently accepted theoretical account of the empirically observed accelerated expansion of the physical universe, namely: as “caused” by the existence of “dark-matter” and “dark-energy” was shown to be negated by the CUFT’s Universal Consciousness Principle; Likewise, Einstein’s Equations which try to explain the universe’s dynamic interplay between massive objects’ curvature of space-time and vice versa: the determination of the movement pathways of massive objects based on their given curvature of space-time-was negated by the Universal Consciousness Principle’s simultaneous computation of any exhaustive spatial pixel in the universe at any minimal time-point $c^2/h = 1.56^{-42}$) [3-23].

Theoretical Physics asserts that the sole “cause” for the perpetual production- sustenance- and evolution-of every exhaustive spatial pixel in the universe, e.g., and hence of the entire physical cosmos is the singularity of the Universal Computational/Consciousness Principle! Hence, a series of revisions of our basic conception of the universe, e.g., challenging and revising Relativity’s basic conception of the physical reality were proven including revising the “Big-Bang Theory” and a discarding of the currently assumed hypothetical concepts of “dark-matter” and “dark-energy” as “superfluous” (i.e., non-existent); In both cases, a Cinematic-Film Metaphor was utilized which likens the Universal Consciousness Principle’s extremely rapid computation of the series of USCF’s frames to the “mechanics” of a standard film: Indeed, it was shown that in the same manner that there cannot exist any “causal” relationships either between any spatial-pixels within any given single cinematic-frame or between any two or more spatial-pixels across any two (or more) cinematic-frames, so it is not possible for any “material-causal” relationship/s to exist between any spatial pixels comprising the same (single) USCF’s or indeed across any two (or more) subsequent USCF’s frame/s! Therefore, the ‘Big-Bang Theory’ which posits that it was the initial nuclear explosion, i.e., which must have taken place at the “first USCF frame” (over 5 Billion years ago) which
“caused” the production of the initial “mass”, galaxies, space and time-in subsequent USCF’s frames, is shown to be neglected due to the fact that (as in the Cinematic Film Metaphor outlined above and previously) all exhaustive spatial pixels found in the “first USCF frame” (of the ‘Big-Bang’ nuclear explosion) could not have affected either the creation of “matter, galaxies etc.” or of “space and time” in the first USCF frame or indeed in any subsequent USCF’s frames! Rather, based on the Universal Computational/Consciousness Principle’s simultaneous computation of all exhaustive spatial pixels in the physical universe at every minimal time point (USCF frame/s) it is asserts the impossibility of the existence of any such “material-causal” relationship/s between an initial ‘Big-Bang’ nuclear explosion and any subsequent production of the universe’s “mass”, “space”, “galaxies, stars” etc.! Instead, the Universal Consciousness Principle’s ‘A-Causal simultaneous computation of all exhaustive spatial pixels in the entire physical universe (at any minimal time-point USCF’s frame/s) necessarily implies that the “origination” of the physical universe-i.e., in the “first” USCF’s frame, as well as the production- sustenance- and evolution- of every subsequent USCF frame/s (e.g., including the current USCF’s frame/s which are continuously being computed by the Universal Consciousness Principle)-is solely being produced by the Universal Consciousness Principle!

Indeed, this “radical conception” of the Universal Consciousness Principle’s ‘A-Causal Computation’ of every exhaustive spatial pixel of the physical universe simultaneously seems to “revolutionize” our current (most fundamental) assumptions underlying the ‘material-causal’ theoretical framework of 21st century Theoretical Physics (e.g., based on its two conflicting pillars of QM and RT); The CUFT’s new “A-Causal Computation Physics” (postulated by the CUFT) depicts the entire physical cosmos as originating (continuously) by the singular Universal Computational/Consciousness Principle, solely responsible for its production (e.g., originally at the first USCF’s ‘Big-Bang’ frame), sustenance- and evolution-thereby negating any “material-causal” relationships such as for instance represented by the currently assumed “dark-matter” and “dark-energy” theoretical assumption accounting for the accelerated expansion of the universe. Instead, the CUFT’s ‘A-Causal Computation’ new Paradigm asserts that the physical universe may only represent a “transient-phenomenal” manifestation of the singularity of this Universal Consciousness Principle (e.g., due to the abovementioned Computational Invariance Principle’ and associated Universal Consciousness Principle)-and as such its whole production (i.e., at every minimal time point c²/3h = 1.56-42!), sustenance and evolution are solely and singularly produced by this Universal Consciousness Principle! Thus, also Einstein’s General Relativity Equations pointing at the dynamic “material-causal” interactions between massive objects and their curvature of space-time, and conversely the determination of the travelling pathways of such massive objects through this curved space-time-is challenged, giving way to the Universal Consciousness Principle’s singular A-Causal Computation sole production- sustenance- and evolution- of the entire physical universe!

6. A Transient-Phenomenal Universal Consciousness-Based Cosmos

Hence, we reach the immanent conclusion wherein this entire physical cosmos doesn’t exist as an “objective-material” entity but rather only as a manifestation of the singular (higher-ordered) reality of the Universal Consciousness Principle! Indeed, the abovementioned Computational Invariance Principle’s assertion that only the ‘computationally invariant’ Universal Consciousness Principle may be regarded as “permanent”, e.g., since it solely exists both “during” each of the USCF’s frames singularly producing the four physical features of ‘space’, ‘time’, ‘energy’ and ‘mass’, and also solely exits “in-between” any two subsequent USCF’s frames), whereas those four ‘computationally variant’ physical features (of ‘space’, ‘time’, ‘energy’ and ‘mass’) which exist only “during” the USCF’s frames (being produced by the Universal Consciousness Principle) may only be regarded as “phenomenal” and “transient”. But, this (profound) ‘Computational Invariance Principle’ and associated ‘Universal Consciousness Principle’, e.g., asserting that the singular reality of the Universal Computational Principle possesses Universal Consciousness properties imply that the physical universe may only be regarded as “phenomenal” and “transient”-in truth only representing a certain manifestation of the Universal Consciousness Principle, i.e., it doesn’t exist “objectively” and “independently” of the singular Universal Consciousness Principle which solely produces- sustains- evolves- and indeed transcends this ‘transient-phenomenal’ physical universe. Perhaps reverting back to the basic scientific principle discovered by Ockham (e.g., “Ockham’s Razor”) which was also mentioned in the context of the CUFT’s discovery of the abovementioned ‘Computational
Invariance Principle’ through an associated scientific metaphor may be helpful in explicating the profound theoretical implications of realizing that there truly exist only one unchanging (‘computationally invariant’) reality which is the Universal Consciousness Principle that gives rise to the (computationally variant) ‘phenomenal-transient’ physical universe: Imagine yourself observing three containers of “water”-manifesting its three states of condensation, e.g., liquid water, vapor (gas) water and frozen (ice cubes of) water; An application of Ockham’s Razor scientific principle towards these three apparently “different manifestations” of the same unchanging water (H\(_\text{2}O\)) element convinces us that in reality there is only one single water (H\(_\text{2}O\)) element-manifested at its three different states of condensation, e.g., liquid water, vapor (gas) water and frozen (ice cubes of) water; An application of Ockham’s Razor scientific principle towards these three apparently “different manifestations” of the same unchanging water (H\(_\text{2}O\)) element convinces us that in reality there is only one single water (H\(_\text{2}O\)) element-manifested at its three different states of condensation, e.g., liquid water, vapor (gas) water and frozen (ice cubes of) water. Similarly, the Computational Invariance Principle asserts (based on a similar application of Ockham’s Razor scientific principle) that since only the Universal Consciousness Principle may be regarded as ‘computationally invariant’, e.g., solely exists both “during” the USCF’s-solely giving rise to the four physical (‘phenomenal-transient’) features of ‘space’, ‘time’, ‘energy’ and ‘mass’, whereas these four physical features (of the entire universe) only exist “during” the USCF’s frames (produced by the Universal Consciousness Principle) but not “in-between” any two subsequent USCF’s frames, therefore only the Universal Consciousness Principle may be regarded as “permanent” whereas the entire physical universe (comprised of those four physical features being computed at every exhaustive-spatial pixel within it by the Universal Consciousness Principle) may only be regarded as a “phenomenal” and “transient” manifestation of the singular reality of the Universal Consciousness Principle!

One of the potentially far-reaching theoretical implications of this new realization that the entire physical universe exists solely as a ‘transient-phenomenal’ manifestation of the singular reality of the Universal Consciousness Principle is that these four ‘transient-phenomenal’ physical features of ‘space’, ‘time’, ‘energy’ and ‘mass’ cease to exist as an “objective reality”, e.g., in and of themselves-hence also the current rigid constraint imposed by Relativity’s “speed of light barrier”, must be revised in favor of the singular reality of the Universal Consciousness Principle, which computes simultaneously all spatial pixels throughout the entire physical cosmos! Indeed, as eluded to earlier, it seems that this apparent ‘rigid speed of light constraint’ imposed by Einstein’s Relativity Theory represents the “maximal degree of displacement” of any given ‘single spatial-temporal’ relativistic object (or indeed subatomic ‘particle’) across a series of USCF’s frames, but does not apply when we expand our “computational perspective” to include ‘multiple spatial-temporal’ (subatomic) wave measures-which can exhibit “instantaneous” ‘quantum-entanglement’ effects, e.g., since they are explained through the CUFT’s broader conception of such ‘multi spatial-temporal’ wave embedded ‘entangled-particles’ which are hypothesized to be computed simultaneously by the Universal Computational Principle (as do all of the exhaustive spatial pixels in any given minimal time-point USCF’s frame/s). Thus, the discovery of the Universal Computational/Consciousness Principle’s simultaneous ‘A-Causal Computation’ of all exhaustive spatial-pixels throughout the physical universe (at any minimal time-point c\(^2\)/\(\hbar\) = 1.56\(^{-42}\) USCF’s frame/s), alongside the (above mentioned) Computational Invariance Principle’s and Universal Consciousness Principle theoretical postulates’ realization that only the Universal Consciousness Principle may be regarded as “permanent” (whereas the four physical features of the entire physical universe are seen to be merely ‘phenomenal-transient’ manifestations of this singular Universal Consciousness Principle)-force us to acknowledge the fact that from the computational perspective of this singular reality of the Universal Consciousness Principle there cannot exist the apparent constraint of Relativity’s ‘speed of light barrier’ for the transmission of any signal or information across space or time! This is simply because from the higher-ordered computational perspective of this Universal Consciousness Principle the entire physical cosmos is continuously being computed (simultaneously)-produced-dissolved-reproduced-and evolved-at every minimal time-point (1.56\(^{-42}\)) by it, such that for each single USCF frame, this Universal Consciousness Principle produces all spatial pixels in the universe simultaneously, i.e., clearly transcending the speed of light barrier! Thus, from the perspective of this singular reality of the Universal Consciousness Principle it is possible to reach any (exhaustive spatial) point in the universe at the rate of c\(^2\)/\(\hbar\) = 1.56\(^{-42}\)(i.e., for a series of USCF’s frames) or indeed “instantaneously” (e.g., with no passage of time at all) for any given single USCF frame!

Finally, note that since we reached the incontrovertible conclusion that since the four physical features of ‘space’, ‘time’, ‘energy’ and ‘mass’ do not exist “in-between” any two subsequent USCF’s frame/s (e.g., as well as the entire physical cosmos comprised of these four physical
features which therefore also doesn’t exist “in-between” any two such subsequent USCF’s frames), and in fact that this entire physical universe only represents a “transient-phenomenal” manifestation of the singular reality of the Universal Consciousness Principle (e.g., which solely exists both “during” the USCF frame/s and “in-between” any two subsequent USCF’s frames) then the simultaneous production of all exhaustive spatial pixels in the universe by this Universal Consciousness Principle, i.e., thereby transcending the speed of light constraint imposed by Relativity Theory should not “surprise” us any longer (since the entire existence of the physical universe is solely produced- sustained- and evolved- by this singular higher-ordered Universal Consciousness Principle).

7. The ‘Individual Human Consciousness Expansive Spectrum Hypothesis’ (IHCESH)

Therefore, the only remaining question pertaining to the possibility of empirically measuring the Universal Consciousness Principle’s transcendence of Relativity’s speed of light constraint-is whether we can harness our Individual Human Consciousness to affect such “instantaneous” (or \(c^2/h = 1.56^{-42}\)) per a given series of USCF’s frames) transmission of information or even physical effects across space and time, i.e., based on an earlier postulated ‘Individual Human Consciousness Expansive Spectrum Hypothesis’; Indeed, it was previously stipulated [3-23] that since from an ontological perspective there does not exist any real difference between the contents of the three states of individual Human Consciousness (e.g., ‘waking’, ‘dream’ and ‘deep-sleep’; termed: the ‘Ontological Relativism’ theoretical postulate) and since in one of these three states, i.e., the ‘deep sleep’ state) there is no “separation” (or “difference”) between the Individual Human Consciousness and the Universal Consciousness within this particular state, then the ‘Individual Human Consciousness Expansiveness Spectrum Hypothesis’ (IHCESH) postulated that there is an inherent potential for Individual Human Consciousness to expand even in the waking (and dream) state to include all spatial pixels produced singularly by the Universal Consciousness (Principle) in the waking state! Therefore, in the same manner in which this Universal Consciousness Principle produces- dissolves- re-produces- sustains- and evolves- every exhaustive spatial pixel in the physical universe (at every minimal \(c^2/h = 1.56^{-42}\) time point USCF frame/s), so it may be possible for Individual Human Consciousness (e.g., in its “expanded” form as postulated by the IHCESH) to produce- dissolve- or evolve- any exhaustive spatial pixel in the universe at each single or multiple USCF’s frame/s. Therefore, it has previously been asserted that based on this IHCESH theoretical postulate it may be possible for such expanded Individual Human Consciousness to “materialize” or “de-materialize” any object (at any hypothetical exhaustive spatial pixel in the universe in any single or multiple USCF’s frame/s minimal time point) akin to the Universal Consciousness Principle’s production- and dissolution- of all exhaustive spatial pixels in the physical universe, thereby challenging the basic “Laws of Conservation” [3-23].

But, this potential equivalent capacity of Individual Human Consciousness to “materialize”- “de-materialize”- or otherwise “affect” the four physical features of any exhaustive spatial pixel throughout the entire physical universe-i.e., “instantaneously” for any given single USCF frame, or at the incredible rate of \(c^2/h = 1.56^{-42}\) for multiple USCF’s frames, implies that this (expanded) Individual Human Consciousness can indeed affect objects at any point in the physical universe either instantaneously (for any single USCF frame) or at the \(c^2/h = 1.56^{-42}\) rate (in the case of multiple USCF’s frames), thereby clearly transcending the ‘speed of light barrier’ imposed by Relativity Theory!

Once again, this transcendence of Relativity’s speed of light constraint for the travelling or transmission of information across space and time is the result of the CUFT’s new recognition of the Universal Consciousness Principle’s simultaneous A-Causal Computation of all exhaustive spatial pixels in the physical universe (e.g., for any single USCF frame) and at the incredible rate of \(c^2/h = 1.56^{-42}\) for its computation of a series of USCF’s- which can be potentially also accessed by the expanded Individual Human Consciousness (based on the IHCESH postulate); As mentioned above, this transcendence of the speed of light barrier by the Universal Consciousness Principle (and its equivalent expanded Individual Human Consciousness) simultaneous A-Causal Computation of every exhaustive spatial pixel in the physical universe (at every minimal time point USCF’s frame/s)-in fact embeds within it the “special case” of Relativity’s ‘single spatial-temporal relativistic object’ which is indeed constrained by the speed of light.

8. Conclusion

This article set to test the hypothesis wherein it may be possible to transcend the strict ‘speed of light barrier’ imposed by Relativity Theory, based on the CUFT’s new
‘A-Causal Computation’ Paradigm of Theoretical Physics; This is because contrary to Relativity’s strict ‘speed of light constraint’ imposed on the transmission of any signal or relativistic object, the CUFT’s new ‘A-Causal Computation’ Paradigm discovered a singular higher-ordered Universal Computational/Consciousness Principle which is hypothesized to compute simultaneously every exhaustive spatial pixel in the universe at any minimal time-point \( c^2/h = 1.56^{-42} \) comprising a series of Universal Simultaneous Computational Frames (USCF’s)! Moreover, based on the CUFT’s earlier ‘Computational Invariance’ and associated ‘Universal Consciousness Principle’ theoretical postulates, it was shown that the four physical features of ‘space’, ‘time’, ‘energy’ and ‘mass’ may only be regarded as “phenomenal” and “transient” (e.g., “computationally variant”-existing only “during” each of the USCF’s and being solely computed by the singular Universal Consciousness Principle but not “in-between” any two subsequent USCF’s frames), whereas the (‘computationally invariant’) ‘Universal Consciousness Principle’ is seen as the singular reality which solely exists both “in-between” any two subsequent USCF’s frames, and also solely computes these four physical features “during” each of the USCF’s frames. Therefore, it was deduced that those four physical features occupying every spatial pixel in the physical universe (and hence the entirety of the physical universe itself) does not exist “objectively” (e.g., in and of itself), but is rather only a manifestation of the singular reality of the Universal Consciousness Principle! Hence, the entire physical universe is seen as existing only “intermittently”-during each of the USCF’s frames, but not “in-between” them, with every exhaustive spatial pixel comprising it being continuously produced- dissolved- sustained- and evolved- at every minimal time-point \( c^2/h = 1.56^{-42} \) USCF frame/s by the singular Universal Consciousness Principle. But, since this singular (higher-ordered) Universal Consciousness Principle computes simultaneously all exhaustive spatial pixels in the physical universe per each single USCF frame (e.g., and a cumulative rate of \( c^2/h = 1.56^{-42} \) per series of USCF’s frame/s), then this implies that from the perspective of this singular reality of the Universal Consciousness Principle it is possible to transcend the speed of light, e.g., based on its simultaneous production of all spatial-pixels in the universe (at any single USCF frame)! Finally, based on another theoretical postulate of the CUFT, namely: the ‘Individual Human Consciousness Expansive Spectrum Hypothesis’ (IHCESH) which indicated the potential for Individual Human Consciousness to expand and include all of the exhaustive spatial pixels in the physical universe (e.g., during the waking state of Consciousness-based on the ontological equivalence of the three states of Individual Human Consciousness and the identity of Individual Human Consciousness and the Universal Consciousness Principle in one of these three states, namely in the ‘deep-sleep’ state); It is stipulated that Individual Human Consciousness may also possess the potential to act akin to the Universal Consciousness Principle, i.e., to “materialize”- “de-materialize”- “sustain”- “evolve”- or “affect”- any spatial pixel in the physical universe just as the Universal Consciousness Principle produces-dissolves- sustains- and evolves- any exhaustive spatial pixel in the universe at any minimal time-point USCF’s frame/s! To the extent that this potential capacity of Individual Human Consciousness to “expand” and include all spatial-pixels in the universe (e.g., identical to the Universal Consciousness Principle’s production of the entire universe at any minimal time-point) can be validated empirically, this would imply the possibility of Individual Human Consciousness to “materialize”- “de-materialize”- or otherwise “affect”- any spatial pixel in the universe “instantaneously” (i.e., in the case of any single USCF frame) or at the rate of \( c^2/h = 1.56^{-42} \) (e.g., in the case of a series of USCF’s frames), thereby transcending the speed of light barrier imposed by Relativity Theory! Finally, it was shown that this transcendence of Relativity’s ‘speed of light constraint’ merely embeds Relativity’s “special case” of a ‘single spatial-temporal’ relativistic object within the broader perspective of Quantum Mechanics’ ‘multi spatial-temporal’ wave measure (e.g., including its associated “quantum-entanglement” phenomenon) which are both embedded within the exhaustive computational perspective of the singular Universal Consciousness Principle that computes simultaneously all spatial pixels in the universe at any minimal time-point \( c^2/h = 1.56^{-42} \). Indeed, this new Universal Consciousness Principle’s simultaneous ‘A-Causal Computation’ Paradigm in Theoretical Physics necessarily revises our basic conception of the physical universe (e.g., alongside its four associated physical features of ‘space’, ‘time’, ‘energy’ and ‘mass’) as representing a “transient” and “phenomenal” manifestation of the singular reality of the Universal Consciousness Principle, and recognize Individual Human Consciousness as possessing a remarkable potential to affect this “phenomenal-transient” universe in much the same manner as does this Universal Consciousness...
Principle solely produces- sustains- dissolves- re-produces- and evolves- every exhaustive spatial pixel in the universe (at every minimal time-point single or multiple USCF’s frame/s).

9. Dedication
This article is dedicated solely to the memory of my dear beloved mother Dr. Tirza Bentwich whose unbound love, listening, and encouragement have enkindled my curiosity, open-mindedness and strong desire to find Truth in whatever form it may appear. May her memory be blessed and may she rest in peace.

References
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