The Universal Wave Function Of The Universe (Verbose Form)

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Abstract

In this research monograph, the author has presented the notion of the 'Universal Wave Function Of The Universe', as an example, in Pure Verbose Form. One can distill the Primality {of all three types: namely Verbal Primality, Act(ion) Recursion Primality, Sense Understanding and/or Perception Primalit}) of this form (text) and can consequently construct the Recursion Scheme of the afore-desired Universal Wave Function Of The Universe.

Theory

One should note that the manifestations of the Universe are as detailed in the following lines (next paragraph). {This will be presented through an example of Human behaviour and the consequential effect of it on the Human being itself, the perception of which (such effect) again leads to the formation of some additional assumptions by him (and/ or her) which again propel his (and/ or her) actions unto the environment. It is to be taken axiomatically that the aforementioned behavior, to begin with, emanates from a premise of such assumptions that are of primeval kind and/or are bestowed genetically to begin with, in addition to the primeval environmental reaction and/ or input to be used to begin with the formation of some assumptions based on the already bestowed genetic disposition with regards such assumptions. It is to be understood that humans continually keep updating their perceptions, i.e., their assumptions and thus continually keep refining their actions set to be performed unto their environment, along a direction commensurate with their desire fulfillment}.

Firstly, one should note that the Universe is 'Neutral' in nature. That is, it does not show any bias between our so called notions of 'Good' and 'Bad'. However, one should note that the grand Universe is a conglomeration of (i.e., statistical distribution) of many phenomena, each of which can be described characteristically by a distinct Recursion Scheme. In totality, such statistical conglomeration can again be described by one Recursion Scheme which is the 'Recursion Scheme of the Universe' we know permeate in and/ or we know of. Also, many of such Recursion Schemes are constantly interacting and are

forming many compound Recursion Schemes. Whenever, we consider the aforementioned fusion of any two different Recursion Schemes, one should note that we have already started an infinite grand journey which continually strives to dissipate the differential of the 'Net Unbalanced Angular Velocity' because of such fusion, already described. This is what we refer to as a 'Life' system. And as this 'Life' evolves, we see around all the complexity of Life that has elevated itself to the level of a Compound Recursion Scheme fused of many, many Recursion Schemes. Firstly, it should be understood that such primeval fusion (of two Recursion Schemes) happens because of nature of the statistics therein, i.e., because of the law of probability that collisions will happen when many bodies interact, i.e., 'The Universal Recursive Law Of The Universe' states that any aspect can be explained in terms of 'itself' and the 'complement (contrary nature) of itself', here 'itself' representing the aspect that many Recursion Schemes exist in isolated way, and the 'complement of itself' being represented by the aspect that a few Recursion Schemes do not exist in an isolated fashion, i.e., they exist as fused (of two or more Recursion Schemes). One should also note the following aspects of the nature of the Universe as well:

One can note that the concept of 'Life' is very simple. The 'Net Unbalanced Angular Velocity' of any heavenly body system(s) (which are a consequence of the primordial *Big-Bang* effect) are evolving in such a fashion that:

- 1. Their 'Net Potential Energy' is a 'Minimum'.
- 2. Their 'Net Entropy' is a 'Maximum'.
- 3. Their 'Net Consciousness (is also a denomination of energy) 'Ingression' is 'Maximum'.
- 4. Their 'Net Consciousness (is also a denomination of energy) is 'Maximum'.

Replication and/ or Reproduction in the beginning after the first hydrocarbon based molecules formed due to lighting storms and torrential rains lasting millions of years long ago which led to hydrocarbon based 'Plasma Bobs' and 'Coacervates' that had the replication and/ or division ability. The universe prefers replication and/ or reproduction as this takes care of the aforementioned aspects 1, 2, 3 and 4. Therefore, replication is an 'Energy,

Entropy and Consciousness' based calculus that the universe implements along its evolution.

As far as Growth up to a critical level is concerned, one should note that the above mentioned systems that had the replication ability, were and/ or are in a thermodynamically highly open system through which energy, entropy and/ or consciousness exchange takes place. However, Replication after growth is an optimal solution (rather than Replication without growth to a critical level) for taking care of the aforementioned 1, 2, 3, 4 points.

As far as accumulation, dissemination and exchange of Consciousness is concerned, please see the author's TRL On 'The Universal Theory Of Soul' at www.vixra.org/author/ramesh_chandra_bagadi to understand the presence and other aforementioned manifestations of the same.

In the aforementioned fashion, one can explain the concept of 'Life' mechanically, i.e., through Science of Mathematics and Mathematical Functions.

From the above all, now one can note that the concept of 'Life' itself is a concept that the Universe prefers for quicker and holistic evolution with respect to the constraints 1, 2, 3, 4 mentioned above. And since, we, being an integral 'Constituent' of the Universe, we all are axiomatically wired to promulgate the concept of 'Life' to our best. Consequently, it is to be understood that our 'Human Culture' is also such a construct that advocates and disseminates the same. Also, it should be noted that the supposed 'Non-Life' component of the 'Universe' is evolving along an 'Ever-Optimal' fashion, 'We' and 'Our Culture' that have supposed 'Life' is also consequently evolving along an 'Ever-Optimal' fashion, sans some aforementioned statistical deviations which are inevitable due the Universal Recursive Law Of The Universe' has very little aforementioned statistical deviations which are again inevitable due the Universal Recursive Law Of The Universe.

One should note that all the 'Pro-Life' manifestations wherein 'Life' just germinates, sustains and gets nurtured without taking away other 'Life'

comprise the optimal nature of the Universe's evolution and one can safely say that a good proportion of the 'Human Culture' intersects well with 'Pro-Life' manifestations of the Universe. Hence, we can establish some synonimity between our culture and the manifestations and evolution of the Universe.

We now set out to explain the neutral nature of the Universe. One should note that the afore-mentioned 'Life' Systems evolve in a heirarchical manner (again ordered by the restrictions posed by 1, 2, 3 and 4) and the one's in the future {the one with the most control over light (which again should be acquired in an optimal fashion ordered by the restrictions 1, 2, 3 and 4)} embed the lower order 'Life-Systems'. That is, 'The Bodily Metabolic Processes', 'The Thought Processes', 'The Emotional Drama', 'The Action(s) Manifestations Set', 'The Consciousness In Total', etc., of a higher order Life-System with maximal Light Control ability (which again should be acquired in an optimal fashion ordered by the restrictions 1, 2, 3 and 4) sub-sets, i.e., governs, and/ or orders the same all for the lower order 'Life-Systems', causally. Here, the author also wishes to shed some light regarding the notion of 'Choice', i.e., what we feel that makes us 'Conscience' holding, i.e., the one having the ability to discern between two choices and make one which we usually refer to being synonymous with the exercising of 'Consciousness'. However, one should note that our 'Perception Band' is very local compared to the vast extent of the 'Universe' and the 'Causality' of the Universe (which is also very vast) that orders all manifestations around us spans the extent of the entire Universe, hence determinism is usually perceived as consciousness (which gives us a feeling that we have exercised choice) manifestation locally as one will never have the chance to see the deterministic behavior of the universe completely. The uncertainty involved in determinism actually manifests this quantum wave function as that which is (apparently) exlplainable by consciousness manifestations locally, i.e., the one of choice exercising, also one should note that the aforementioned determinism is equivalent to the set of axioms that are synonymously representative of causality accumulated by the primordial Universe when it was basically a supposed 'Non-Life' system in majority. Hence, the statistics therein then causally governs the present Universe that has matured to that one which encompassed 'Life' systems as well in addition

to the heavenly bodies and the associated paraphernalia ('Non-Life' systems) and therefore consequently governs, the notion of 'Choice', i.e., of 'Consciousness'. That is, one should note that the aforementioned statistical disturbances leading to fusion in the primordial 'Non-Life' systems based Universe also magnifies as Choice' and 'Consciousness' as the Universe evolves.

Furthermore, primitive human psyche has been that which can be represented by a mirror. That is we tend to reciprocate in the same fashion we are treated. However, from the author's TRL on 'Universe's Similarities Synonimity And/ Or Accretion Principle' one should note that human manifestations recursive evolutionary fruit is also shared by him all those similar to him, i.e., in all the 'The Bodily Metabolic Processes', 'The Thought Processes', 'The Emotional Drama', 'The Action(s) Manifestations Set', 'The Consciousness In Total', etc., in the same proportion as the contribution of the above listed aspects. Hence, if we feel happiness and/ or pain, such happiness and/ or pain is also felt (in the same heirarchial fashion as the graded 'Life' Systems embeddings, and in the same proportion as the Lower order Life system shares the qualities (nature) of The Superior Order Life system) by all those who are like us.

{Note: One should note that there is a lot of exploitation going on around in the Universe because of this aspect which is also sufficiently substantiated by the Universe materialistic wise by the incorporation of such implementation of such scheme by way of genetic evolution. However, it is to be noted that such genetic superiority of such Higher Order Life Systems is not a blank cheque to control the manifestations of Lower Order Life Systems indiscriminately. One should summarily note that the reason why a Superior Order Life System is superior because it has acquired the ability to control light in 'Pro-Life' fashion, wherein 'Life' just germinates, sustains and gets nurtured without taking away other 'Life'. If the Higher Order Life System of concern just rigs 'Life' of itself without acquiring Life in the Pro-Life fashion as stated, such superiority will soon be embedded by the Lower order Life-Systems that have acquired enough 'Life' by the practice of a 'Pro-Life' culture and will in essence be a lower order Life system with respect to the Lower order Life-Systems that have acquired enough 'Life' by the practice of a 'Pro-Life' culture. This is how the universe

maintains its 'Pro-Life' state that is in accordance with respect to 1, 2, 3 and 4) as it evolves}.

This is because the Universe is neutral in nature, that is what we are, this nature (throughout the Universe in whoever and in whatever component it persist and/ or permeates in all others) gets to enjoy the fruits of our actions, be such fruits good or bad and also, our actions being 'Pro-Life' and/ or 'Anti-Life' actions. This being said, one should note that we {and all those throughout the Universe in who-ever and in what-ever component our, such nature (causing the action manifestation of concern) persists and/ or permeates} hold, live and undergo the pain of all our actions, inclusive of the redundancies, especially, therein. One should note that every action of ours is not perfect (i.e., not 100%) 'Pro-Life' because of the Universal Recursive Law Of The Universe), that is also inevitably plagued by some undesirable redundancies. Also, such redundancies blow into gigantic proportions upon the evolution of the Universe which again impinge squarely on us (and our future generations) because equi-reflection (based on the constraints 1, 2, 3, and 4 is a Universal Characteristic of the Universe, the consequence of which is, the nature of the primitive Human Psyche).

One can therefore note that encompassing the entire of sentient 'Life' kind and the supposed 'Non' Life kind of the Universe as the inevitable, indistinguishable, inseparable and integral part of our loving family and our actions having a minimum possible of the inevitable redundancies commensurate with respect to the aforementioned notion of the 'Universal Family' is the best way for us to evolve.

Finally, should note that our Perception ← → Consequential Action←→Assumptions Set←→ Perception (Again) geodesic operates not as a singleton geodesic but as a multi-threaded geodesic involving and/ or with interacting many such Perception \leftarrow Consequential Action←→Assumptions Set←→ Perception (Again) geodesic's of others. Therefore, from this one can note that one consequence is that of 'Perception' Concretization'.

(see author's TRL at www.vixra.org/author/ramesh_chandra_bagadi on this)

Perception Concretization states that nothing exists (in your local reference frame spanning the Complete Perception Set made up of all the Perception Sets of the Perception Geodesic's you interacted thus-far with) until you validate it by percepting it. This also consequently explains the locally intermediate range nature of infinity which will be explained briefly in the following lines.

Infinity

- 1. All manifestation(s) of nature are because of local (or global) causality which again is a recursion based evolution based impression of some other past manifestation(s).
- 2. Any manifestation has a Recursion based evolution scheme that is characteristic of a galaxy, universe in which it is in, or is coupled too. The various types of natural and artificial Recursion Schemes possible are already laid out by the author succinctly, before.
- 3. These Recursion Schemes are what collectively drives the Universe and thus increases its entropy eternally.
- 4. Having known the above aspects, now if we consider a human being and his perception space spectrum, his logic analysis space spectrum and his reaction manifestations space spectrum, all having different number and distinct bases, then the act of perception as manifestation(s), the acts of exercising logic as manifestation(s), and finally the act of reaction i.e., action manifestation(s), all have a characteristic Recursion Scheme based evolution.
- 5. These Recursions cause the evolution of the universe, at a local and global scale and sometimes we can intersect them too by our manifestation of quest.
- 6. By thinking of the very perception of infinity, i.e., what next, we are invoking our perception space to a higher degree, thus invoking higher level Recursions and the evolution of the Universe to a higher level thus making it infinite for us to fathom. Similar is the input from the consequential manifestation(s) of logic distillation and action or reaction. Also, all manifestations at all levels, natural or artificial follow characteristic evolution scheme(s). These can be local, global, universal or inter-universal or intra-universal.
- 7. However, the author believes that for every manifestation, natural or artificial, there exists a primes set that makes the system self-organizing.

- 8. Therefore, every universe has a local infinity i.e., a maximal primes set which when reached by humanity because of what-ever motivation, it cannot find the higher maximal primes set of another higher universe that actually embeds it until the motivation of the quest is thoroughly addressed and the related thirst quenched.
- 9. The final question of the entropy control or diversion of entropy of the universe can be addressed by the fact that there exist also manifestations both at artificial and natural level that condense or cause condensation or devolution recursion or negative recursion. The fine balance going on between positive and negative recursions is what preserves the infinity concept of the Universe. 10. Every self-organization is a Universe and conversely every Universe is a self-organization.
- 11. Every self-organization has a recursion dual different from the quantum dual and it may be spaced beyond the topological singularity of the self-organization. For example, some people's Recursion Schemes may be representative of the Recursion Schemes of just drifting asteroids, some comets, some humble planets, some majestic stars, some gigantic galaxies and some may be Universes. Every self-organization evolves on a characteristic Recursion Scheme Code which unfolds as some subsets of prime numbers are generated by the characteristic recursion scheme. For example, one such characteristic recursion scheme may be just taking an creating an image (sans the uncertainty involved in this process) and then some SO(2) or SO(3) rotations or better yet some simple Eulerian angular rotations.
- 13. This aforementioned partial subsets generation of prime numbers governs the self-organizations's entropy, symmetry, shape, dimensionality, density, energy density, energy intensity, diversity (Colours) and its existential space spectrum. When this set becomes a holistic set the representation of that self-organization tends to be a maximal primes set of a given Universe or a local infinity of that universe.
- 14. High birth or intermediate birth or low birth i.e., lineage is just a positioning or a initial boundary condition. Noble or actions consistent with the fundamental axiom of the Universe that advocates qualities such as selfless nurture, sacrifice, self-less service, speaking the truth always, etc., cause positive recursions and make us inch towards being the infinitum or the grand universe because we are able to use our perception depth and consequential logic and actions at the highest level compared to any other entity in the Universe by being Noble to the core. All actions that are in contrary nature to this aforementioned fundamental axiom of the universe cause negative

recursions and devolve you or put you back. You, see the Universe always vests the power of choice or ambivalence in you no matter where or how you start because of your lineage.

15. The evolution of compound Recursion Schemes that are governed by 'Life' Systems inject the concept of 'Gravity' by way of 'Choice' based 'Consciousness' manifestations. As long as choices are along deterministic lines, the aforementioned 'Gravity' follows a well quantified law, otherwise, they seem to follow special 'Hyper-Causality' and/ or magical schemes. Such Hyper-Causality schemes that manifest so because they may be some intervening aspects specially delivered from other Universes (and/ or other zones not native to the local co-ordinate of the manifestation of the Compound Recursion Scheme of concern and its evolution).

However, one should note that when we describe the functioning of the Universe, it is not just about our nature, our actions and their nature and the redundancies of our actions nature. It is also about how the environment perceives our actions. That is, we derive the benefit of our actions in the same proportion of their approval and also receive their ire because of the redundancies of our actions {in truth and also if they perceive so, (as well) even if your action is 'Pro-Life'}, in such a contradicting case the Universal Perception ←→ Consequential Action ←→ Assumptions Set ←→ Perception (Again) geodesic is ever striving to become complete at any possible order of Recursion Intelligence of such two party interaction through the interaction of two such parties under interaction at various possible orders of Recursion Intelligence either directly and/ or passively through interaction by other parties. Upon such completion of the aforementioned geodesic, directly and/ or indirectly, the appropriate benefit and/ or the ire reaches us.

Note:

Recursional Relations

Example

Abstract

In this research investigation, the author presents a novel recursive scheme to generate the sequence of integers.

Theory

Motivation:

One should know that the Universal Wave Function Of The Universe is such that if any property denoted by x that can attain a maximum value of 1 and this property has redundancy which is denoted by (1-x), then in the limit of (1-x) tending to 0, we can say that the property exhibits itself in the Universe as $\underset{(1-x)\to 0}{\text{Limit}} f(x) = x$ and similarly, if this property has redundancy which is denoted by

(1-x), then in the limit of (1-x) tending to 1, we can say that the property exhibits itself in the Universe as $\underset{(1-x)\to 1}{limit} f(x) = -x$. Therefore, we can write the Universal

Wave Equation Of The Universe in its most fundamental form in the following fashion.

Firstly, we consider the situation wherein

$$\underset{(1-x)\to 0}{\operatorname{Limit}} f(x) = x \quad \text{i.e., } \underset{x\to 1}{\operatorname{Limit}} f(x) = x \tag{1}$$

$$\underset{(1-x)\to 1}{\text{Limit}} f(x) = -x$$
 i.e., $\underset{x\to 0}{\text{Limit}} f(x) = -x$ (2)

We now change the limits of equation number (2) from $x \rightarrow 0$ to $x \rightarrow 1$ which naturally transforms the equation number (2) to

$$\underset{x \to 1}{Limit} \ f(x+1) = -(x+1) = -x - 1 = -\left\{ \underset{x \to 1}{Limit} \ f(x) \right\} - 1$$
(3)

which is gotten by using $\left\{ \underset{x\to 1}{limit} f(x) \right\} = x$ i.e., equation number (1)

We can re-write equation number (3) also as

$$\underset{x \to 1}{Limit} \ f(x+1) = -\left\{ \underset{x \to 1}{Limit} \ f(x) \right\} - 1 \quad \text{i.e.,}$$

$$f(x+1) = -f(x) - 1 \tag{4}$$

Say, x = -n which gives f(x) = -n

We then have

$$f(x+1)=n-1$$

$$f(x+2)=n-2$$

$$f(x+3)=n-3$$

$$f(x+k)=n-k$$

In this fashion we can we can range k from (n+r) through (n-r) to get the numbers -r through r which are the set of integers in the interval [-r,r]. In the limit of $r \to \infty$, we get the complete set of integers Z.

In a similar fashion, as stated above one can also generate the Sequence of Prime Numbers (and also the Sequence Of Prime Numbers of Higher Order Spaces) {(see author's TRL at www.vixra.org/author/ramesh_chandra_bagadi on this)} by constructing the appropriate Recursional Relations characteristic of the Sequence of Prime Numbers (and also the Sequence Of Prime Numbers of Higher Order Spaces).

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