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VI-①

Life Engineering

Complementable Bound (Limit)

one can note that there exists a Prime Number R_1 (of the respective Prime Metric Basis of concern) such that when we consider its Complement w.r.t some Number Limit (expressed as a Number N) wherein the Base is the Number Base N of the Number System we use for this analysis and the exponent n of this Base is a Positive Integer which again is expressed in the Number Base N of the Number System of concern we use, the numbers R_1 and $(N^n - R_1)$ are both Primes (in the Basis R_1 of Prime's Sequence (Basis) Order) and n is equal to the Number of Digit Place Holders occupied by R_1 when it is expressed in Base N Number System. Here, n can take any Positive Integer value. Also, N can take any Positive Integer value.

Furthermore, we can find 'i' by considering various n 's, i.e., $n=1, 2, 3, \dots$ and can find the Real Positive Order of this set of 'i's Evolution, i.e., all the values that 'i' takes when $n=1, 2, 3, \dots$ wherein the set with values $\{i_{n=1}, i_{n=2}, i_{n=3}, i_{n=4}, \dots\}$ is considered as a Universal Sequence of Primes of the Order (R_1) , (Recursively upto some limit only) such that the aforementioned constraint that R_1 and $(N^n - R_1)$ are both Prime for varying R_1 and n . We call this N^n as the Complementable Bound Limit for R_1 .

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Life Engineering (continued)

Firstly we consider some Prime Number say $R_1 p_{a_i}$ and consider its Converse w.r.t the Complementable Bound Limit of concern, say $CBL(R_1 p_{a_i})$ i.e., $\frac{1}{\{CBL(R_1 p_{a_i}) - R_1 p_{a_i}\}}$ and

use the concept of True Life as $R_1 p_{a_i}$ and True Redundancy (w.r.t the Complementable Bound Limit) as $\frac{1}{\{CBL(R_1 p_{a_i}) - R_1 p_{a_i}\}}$ and construct the Unitarity Condition

In Recurrence such as

$$\left(R_1 p_{a_i}\right) \frac{1}{\{CBL(R_1 p_{a_i}) - R_1 p_{a_i}\}} = \delta_{a_i} \approx 1$$

Also, we consider the Expression of the form

$$\sum_{\substack{a_i=c \\ \text{Exhaustion (consecutively)}}} \left(R_1 p_{a_i}\right) \frac{1}{\{CBL(R_1 p_{a_i}) - R_1 p_{a_i}\}} = f\{CBL(R_1 p_{a_i})\}$$

where a_j, a_i are Prime Metric ^{Element} Position Numbers ^(Index) of Prime Metric Basis R_2 and R_1 order (Numbered Universal Sequence of Primes) respectively. Also $a_i = c$ to Exhaustion (considered consecutively as $(c+1), (c+2), (c+3), \dots$, where c is a Positive Integer and by Exhaustion, we mean till the fact that $(R_1 p_{a_i})$ and $\{CBL(R_1 p_{a_i}) - R_1 p_{a_i}\}$ are Prime for varying n , for any considered N .

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Life Engineering (continued)...

Also, one can note that similarly we can note that ~~f~~ $\{ \{ CBL \} \{ (R_2, p_{aj}) \} \}$ can be considered as the equivalent Prime Number that generates the Remnsional Field Intensity Gradient Function characteristic of the Star, (Galaxy or Universe or Just Interstitial Galactic Space) of concern in which we created the Life Primality Values using (R_1, p_{ai}) . That is, this value is the Least Count of this aforementioned Remnsional Field Intensity Gradient Function Primality.

† We now consider applying the Evolution operator E on the last mentioned equation

$$E \left\{ \sum_{a_i=c}^{Exhaustion} (R_1, p_{ai}) \frac{1}{\{ CBL(R_1, p_{ai}) - R_1, p_{ai} \}} \right\} = E \left\{ \{ CBL(R_1, p_{ai}) \} \{ (R_2, p_{aj}) \} \right\}$$

wherein by $f \{ CBL(R_1, p_{ai}) \}$ is a function of CBL corresponding to R_1, p_{ai} of concern. Recursively, we can again think of R_2, p_{aj} being generating all the elements represented in the equation

$$E \left\{ \sum_{a_k=d}^{Exhaustion} (R_3, p_{ak}) \frac{1}{\{ CBL(R_3, p_{ak}) - R_3, p_{ak} \}} \right\} = E \left\{ (R_2, p_{aj}) \right\}$$

& so on so forth continuously. Lastly, the (R_1, p_{ai}) , (R_2, p_{aj}) , (R_3, p_{ak}) , ... gotten by such aforementioned Evolution, when are plotted (each set) along the Prime Metric of the Maximal Order Dimension RL

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Life Engineering (continued)...

of Space (see authors [2][3] for knowing Maximal Order Dimension of Space, and Prime Metric Algebra respectively) i.e., It are stated in Stable Spatial Configuration, we get the Physical Topology of the Life Entity of concern represented by the Set of $R_i p_{a_i}$ as i evolves under the aforementioned Evolution Constraint. One should note that the CBL $\{ R_i p_{a_i} \}$ is a Limit or rather a function^{*†} of the aforementioned Star (or Galaxy or Universe or Just the Interstitial Galactic Space of concern).^{*†} And such Function can simply be also some Devolved Primality of the Universal Recursion Scheme of the aforementioned Star (or Galaxy or Universe or Just the Interstitial Galactic Space of concern), which again may be proportional to the Norm of the Distance between the Star (or.....) and the Life Entity aspects (created) position considered along the Prime Metric.

Example: We can consider a Given Complementable Bound Limit of 898T, i.e., 898000 or 898 Trillion, i.e., 898×10^3 or 898×10^{12} . For this CBL, we can find the Life Entity Aspect of concern generated along these lines. Also, similarly, we can find the Life Entity Aspect of concern generated for the case of 8989T, i.e., 8989000 or 8989 Trillion, i.e., 8989×10^3 or 8989×10^{12} .

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Life Engineering (continued)...

Note 1: One can note that the Aspect Primality Set (R_i, p_{ai}) and given and its Converse (found w.r.t to some Complementable Bound Limit) Aspect Primality Set can be used to construct the Universal Wave Equation of the Universe wherein such Converse can be found as detailed already wherein each denotes one of the Arms of the Universal Wave Equation of the Universe which is actually the Infinity Geodesic of the Aspect Primality & the Converse (w.r.t to some Complementable Bound Limit). We can further consider Orthogonal Primality Additions Based Derivation on the Inner Side to Exhaustion & Outer Side till we reach a point of Evolution to Limit. We can now consider the Eigen Frequency Spectra of this thereby modified primality, which can be safely considered as the Life Primality Eigen Frequencies Spectra.

Note 2: We can also consider another case wherein the (converse) a term $\frac{1}{\{CBL(R_i, p_{ai}) - R_i, p_{ai}\}}$ is replaced by $\left\{ \frac{CBL(R_i, p_{ai})}{R_i, p_{ai}} \right\} \left\{ \frac{-RL}{1 - CBL(R_i, p_{ai})} \right\} \left\{ \frac{1}{R_i, p_{ai}} \right\}$

as well in the Entire Algebra. Here, the notation $CBL(R_i, p_{ai})$ indicates the Complementable Bound Limit which we are using for generating the Constrainedly Evolved Elements of R_i, p_{ai} wherein the constraint of Evolution is already detailed.

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(Life Primality) continued...

7 Expressing Any Aspect Primality of Concern In The Basis of Its Least Count

For a given Aspect Primality $\{S\}$ we can find its Reciprocal Primality (Converse Primality) for the converse Primality w.r.t the given CBL Value $\{in\}$ which the Aspect Primality $\{S\}$ permeates in, as

$$p_i \rightarrow \frac{1}{p_i} \quad \text{or} \quad p_i \rightarrow \frac{1}{(CBL - p_i)} \quad \text{or} \quad p_i \rightarrow \left\{ \frac{(1 - \frac{1}{CBL})}{p_i} \right\}$$

wherein the last 2 types of Converse can be referred to as Ideal Converse Primality w.r.t the given CBL Value, as already detailed. The fourth type being

$$p_i \rightarrow \left\{ \frac{(1 - \frac{1}{CBL})}{(CBL - p_i)} \right\}$$

For each of these above expressions, the R.H.S terms in there can be considered as Native Primality Element Frequencies of the respective Converse types that are mentioned above. Also, one can consider the Reciprocal of the Cross Product [6] of the following cases as also Cross Product Based Native Primality Element Frequencies of the respective Converse Types already mentioned, ~~then being~~

$$\frac{1}{\left\{ (p_i)^2 \otimes 1 \right\}}, \left\{ \frac{p_i}{(CBL - p_i)} \otimes 1 \right\}, \left\{ \frac{1}{p_i} \otimes \left(1 - \frac{1}{CBL} \right) \right\} \text{ and}$$

$$\frac{1}{\left\{ (p_i)(CBL - p_i) \otimes 1 \right\}}, \left\{ \frac{p_i^2}{(1 - \frac{1}{CBL})} \otimes 1 \right\}, \left\{ p_i^2 \otimes \left(1 - \frac{1}{CBL} \right) \right\} \text{ and}$$

$$\frac{1}{\left\{ p_i (CBL - p_i) \otimes \left(1 - \frac{1}{CBL} \right) \right\}} \text{ wherein all Cross Products, are computed after stating them all in one Prime - RL Metric Basis of concern.}$$

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Life Primality (continued) . .

One can also consider Frequencies Spectrum, i.e.,
Reciprocals of the kind wherein Converse is considered
w.r.t each and every p_i and $\frac{1}{p_j}$ with $i \neq j$
and for a given CBL value of concern here. That is
we consider Frequencies of Intra Inter Interactions of
 p_i for all the cases of Cross Product, i.e., The Frequencies
of interest being

$$\frac{1}{\{p_i\} \{p_j\} \otimes 1}$$

$$\frac{1}{\{p_i\} (CBL - p_j) \otimes 1}$$

$$\frac{1}{\{p_i\} \{p_j\} \otimes \left(1 - \frac{1}{CBL}\right)}$$
 and

$$\frac{1}{\{p_i\} (CBL - p_j) \otimes \left(1 - \frac{1}{CBL}\right)}$$

for all $i \neq j$ of the Aspect Primality of concern.
All the above computed Frequencies can be considered
as the First Order Life Eigen Spectra of the given Aspect
Primality $\{S\}$ of concern and let us call this set of Frequencies
of First Order Eigen Spectra of Life as $\{S\}_1$. Now, for each of
these values we can again find similarly $\{S\}_2, \dots$ as on
at most in Hobbes's method.

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consider finding the Primality of $\{S\}_1$, and for that set, we should find $\{S\}_2$ & so on so forth, i.e., following the sanctity of process L_2 that we started with for finding $\{S\}_1$ in the First Place. The computation of the Least Count follows in the Section alternate to the next one. - RL

† Critical Constraint For Constructing Aspect Primalties with Life Primality

For a given Aspect Primality of concern, we can find its Universal Recursion Scheme (New & Updated, Quantum Version coming soon) and can slate it in the Basis of the Most Fundamental Basis i.e., in the basis of author's 'Universal Wave Equation of The Universe' (New Version, also coming soon) and can finally slate this in the Least Count of the Basis of the Universal Recursion Scheme of Field Intensity Gradient Field Function ^{characteristic} of the Star, Galaxy, Universe or just the Interstitial Galactic Spaces of concern in which the Aspect Primality of concern permeates in. Also the aforementioned Double Slating ^{sequency} order can be optimised for best results as well.

† Least Count of the K^{th} Order Life Primality Eigen Spectra Computed For A Given Aspect Primality of Concern

One can simply note that the LCM^* of all the value of $\{S\}_k$ wherein the LCM^* notion is computed using author's 'Universal Field Theory' [7] ^(New Version coming soon) concept can be considered as the Least Count In Universality of K^{th} Order Life Primality Eigen Spectra. In this fashion, one can calculate the Least Count of the Recursional Field Intensity Gradient Function Primality of the Star, - RL

RL Note: one can even optimize this whole process using author's [10] Universal Engineering Principle and also author's [9] Universal Comparator (New Version coming soon). - RL

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Life Primality (continued) - -
Galaxy, Universe or the Interstitial Galactic space of concern.

One can also note that before one changes the Basis mentioned in the First New Section on Page ③ of this research manuscript, we should also check if it is worthy ^(or not) and this aspect can be worthily assessed when we sufficiently Evolve (or Devolve, if necessary) the given Aspect Primality of concern, also if necessary along a Constrained or/and Directed Evolution path for necessary & Desired Results. Significant input ~~can~~ regarding this Evolution (Constrained) Path can be gotten by Reverse Engineering of appropriate kind using author's Universal Field Theory. ^{For best results}

Example: Universal Ambient Space-Time Primality Based Engine

Using authors concepts stated in the research manuscript and also the research literature authored by the author in [8] and [9], one can easily design Universal Ambient Space-Time Primality Based Engine which gets its driving Causality Power from the Least Count of Primality of Life Eigen Spectra ^{of} of the Recursional Field Intensity Strength Gradient Function characteristic of a Star, Galaxy, Universe or just the Interstitial Galactic Space wherein the Engine Primality permeates in.

* For best results it is advised to state the Aspect Primality, i.e., (Engine Primality) of concern, i.e., each of its elements in the Basis of the Least Count of its Life Eigen Spectra of All Orders (considered upto some Order ^{for}) before we change this Basis to the Most Fundamental Concept Basis and consequently to the Basis of the Least Count of the Recursional Field Intensity Strength Function of concern in the context. - RL

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Life Engineering (continued) . . .

Firstly the author will state two Lemmas:

Lemma 1: For any Prime Metric Basis Element of some Real Positive order Sequence of Primes, we should find say $(N_i + d_i)_{(j)}$, we should also note that the Elements, $1 \equiv (N_i + d_i)_{(j-k)}$ and $\left\{ (N_i + d_i)_{(j)} \right\}^2 \equiv (N_i + d_i)_{(j+l)}$ are also of interest as these two Elements form the operands of in

the Process of 'Universal Cross Producing' which creates the Universal Sequence of Primes of order of concern here it being $(N_i + d_i)$. Also, one can note that l, k can be both Fractional as well, i.e., Positive Fractional Real, in distinctiveness Using authors Basis Change Theorem stated in [4a], we can state $(N_i + d_i)_{(j)}$, $(N_i + d_i)_{(j-k)}$ and also $(N_i + d_i)_{(j+l)}$ call in one

Positive Real Integral Prime Order Prime Metric Basis wherein also the $j, j-k$ Elements thruly transformed Positions which were Real Positive Fractional $\{ j, (j-k) \text{ and } (j+l) \}$ are now all Real Positive Integers. He consider investigation in this Basis of Prime Metric for enhanced simplicity of computation and comprehension as well. Therefore, we now write M_j for $(N_i + d_i)_{(j)}$, M_{j-k} for $(N_i + d_i)_{(j-k)}$ and M_{j+l} for $(N_i + d_i)_{(j+l)}$

wherein all the Prime Metric Basis Positions & Orders are Real Positive Integers. We now consider, furthermore the system wherein we consider Near Neighborhood Quantum Coupling effect wherein, we consider Universal Cross Product of a Prime Metric

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Life Engineering (continued) ...

Basis Element with the Reciprocal of the Next or the
 Previous Prime Metric Basis Element just referred to.
 That is, we consider the following two cases:

Case 1:

$$\left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j)} \otimes \left\{ \frac{1}{(N_i + \alpha_i)_{(j+1)}} \right\} = \delta_{i+1} \longrightarrow \textcircled{A}$$

Now, here, we can note that 1 can be written as
 $1 \equiv \frac{(N_i + \alpha_i)_{(j-k)}}{(N_i + \alpha_i)_{(j-k)}}$ and since δ_{i+1} is just less than 1

we can represent it by some $(N_i + \alpha_i)_{(j-k)}$ where $k > j$
 as $(N_i + \alpha_i)_{(j-k)}$ can also be represented by some $(N_i + \alpha_i)_{(j+t)}$
 where t can be positive or negative, therefore, we can
 write $\left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j)} \cdot \left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j-k)} = \left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j+t)} \cdot \left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j+t)}$

Now from author's [1] we can note that

$$\left(\begin{matrix} E \\ E \end{matrix} \right)^k \left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j-k)} = \left(\begin{matrix} E \\ E \end{matrix} \right) \left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j)} \quad \text{and}$$

$$\left(\begin{matrix} E \\ E \end{matrix} \right)^j \left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j)} = \left(\begin{matrix} E \\ E \end{matrix} \right) \left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j+1)} \quad \text{and}$$

$$\left(\begin{matrix} E \\ E \end{matrix} \right)^{j+1} \left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j+1)} = \left(\begin{matrix} E \\ E \end{matrix} \right) \left\{ \begin{matrix} (N_i + \alpha_i) \\ \vdots \\ (N_i + \alpha_i) \end{matrix} \right\}_{(j)}$$

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Life Engineering (continued) - - -

where $(E)^t$ is the once applied Operator on some
 $(N_i + \alpha_i)_p$ to give $(N_i + \alpha_i)_{(A+1)}$. Hence, $(E)^k, (E)^t$
 and $(E)^{-t}$ mean the appropriate simplicity herein. Therefore,
 we can write an Equation

$$\left\{ (N_i + \alpha_i)_p \right\} \left\{ (E)^{-k} (N_i + \alpha_i)_p \right\} = \left\{ (E)^{-t} (N_i + \alpha_i)_p \right\} \left\{ (E)^t (N_i + \alpha_i)_p \right\} \rightarrow \text{B}$$

From the above equation we can find the Relation
 between j, k and t , especially for the author's Scheme
 of Finding the Universal Sequence of Primes of Any Positive
 Real Order detailed in [9]. One can note that we can
 even see how this Relation changes with changing
 $(N_i + \alpha_i)$ and hence can find a Rule (or rather an
 a Recursive Iterative (Numerical/Symbolic) Computational
 Scheme for finding the specifics of j, k & t , as an
 Algorithmic approach based Solution. Similarly, we can find
 a similar relation for the case of $(N_i + \alpha_i)_p \Rightarrow (N_i + \alpha_i)_{(j+1)}$
 in equation A (giving equation B) which we name as equation
 B2. We can now note that the two equations,

The shift ± 1 can be even ± 2 where $n \leq$ the Cardinality of $\{k_i, j_{pralli}\}$.
 One can even sum these effects as already stated earlier. -R2-

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Universal Reach Address:
URL&O, UR.O of the stated Spaces in [0]

Life Engineering

$$\left\{ \begin{matrix} (N_i + d_i) \\ p_j \end{matrix} \right\} \otimes \left\{ \begin{matrix} 1 \\ (N_i + d_i) \\ p_{j+1} \end{matrix} \right\} = \delta_{i+1} \rightarrow \text{A1 and}$$

$$\left\{ \begin{matrix} (N_i + d_i) \\ p_j \end{matrix} \right\} \otimes \left\{ \begin{matrix} 1 \\ (N_i + d_i) \\ p_{j-1} \end{matrix} \right\} = \delta_{i-1} \rightarrow \text{A2 wherein}$$

the \otimes / and = care to be understood in the sense of
 Prime Metric Algebra [3].
 We can also note that these two equations which are
 actually two Relations as detailed in (B1) & (B2) (supposed)
 also form the constraints upon which we can apply
 Any Evolution operator of concern, thusly giving the
 Systems that we can refer to as Life Systems. We
 can even Mix, (Eliminate Common Variables) between
 (B1) & (B2) or even (B1) & (B1)' or (B2) and (B2)' where (B1)'
 and (B2)' can be some different elements, with some $j =$ some
 f , giving us Differential Interacting Life System Primalities.
 We can even set δ_{i+1} or δ_{i-1} equal to the Least Count of
 the Primality of Recursional Field Intensity (Gradient) Value of
 the Space-Time Location of concern where the aforesaid
 Primalities are Permeating in, such that such Primalities,
 i.e., their elements are alive (responsively) at Ambient
 conditions. Now, one can draw up this whole scenario to
 the level of the entire Primality of the Aspect of concern
 with all the j 's of concern in $\left\{ \begin{matrix} (N_i + d_i) \\ p_j \end{matrix} \right\}$ as in the last
 Paragraph the Life Primality System was referred to at this
 level of context based Processing. ~~to be noted~~ of the same lines
 we can implement the same for all Converse Types [5] with the ± 1 shift of j .

(continued) . . .

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Moral

Ekovaasi Sarva Bhootaan Antaraatmah (It is the One That Pervades All)

—Ramesh Chandra Bagadi

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