

TRL Life Engineering. {Rendition To Completion}. (Universal Engineering Series).

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Life Engineering

Complementable Bound (Limit)

one can note that there exists a Prime Number $R_{i(n)}$ 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^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 $R_{i(n)}$ and $(N^n - R_{i(n)})$ are both Prime in the Basis R_1 {Prime's Sequence (Basis) Order} and n is equal to the Number of Digit Place Holders occupied by $R_{i(n)}$ when it is expressed in Base N Number System. Here, we are using literature concerns where $N=10$. 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 R_1 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 $R_{i(n)}$ and $(N^n - R_{i(n)})$ are both Prime for varying R_1 and n . We call this N^n as the Complementable Bound Limit for $R_{i(n)}$.

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Life Engineering (continued)

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

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

In Recursiveness such that as

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

Also, we consider the Expression of the form

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

where a_j, a_i are Prime Metric ^{Element} Position Numbers ^(Indices) 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 $(R_1 p_{ai})$ and $\{CBL(R_1 p_{ai}) - R_1 p_{ai}\}$ 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 ~~$f\{CBL\}$~~ $\left\{ \binom{R_2}{p_{aj}} \right\}$ can be considered as the equivalent Prime Number that generates the Recursionial 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 of using $\left(\binom{R_1}{p_{ai}} \right)$. That is, this value is the Least Count of this aforementioned Recursionial Field Intensity Gradient Function Primality.

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

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

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

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

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

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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 $R_{i,p}$ as i evolve under the aforementioned Evolution Constraint. One should note that the CBL $\{R_{i,p}\}$ 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 aspect's (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 Densification 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 thusly modified primality, which can be safely considered as the Life Primality Eigen Frequencies Spectra.

Note 2: We can also consider another case wherein the (terms like) the term $\frac{1}{\{CBL(R_i | P_{ai}) - R_i | P_{ai}\}}$ is replaced by $\left\{ \frac{CBL(R_i | P_{ai})}{R_i | P_{ai}} \right\} \left\{ \frac{-RL}{1 - \frac{1}{CBL(R_i | P_{ai})}} \right\}$ 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...

† 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 $\{S\}$ 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, them being

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

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

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

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Life Primality (continued)

One can also consider Frequencies Spectrum, ie.,
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, ie., the Frequencies
of interest being

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

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

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

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

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 $\{S\}_2, \dots$ and so on
to infinity. Alternately, or more in Holyness, we should RL

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consider finding the Primality of $\{S\}$, 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, ^{Full Bounds Based} Quantum Version coming soon) and can slate it in the ~~Most~~ 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 Functions, ^{characteristic} of the Star, Galaxy, Universe or just the Interstitial Galactic Space of concern in which the Aspect Primality of concern permeates in. Also the aforementioned Double Slating, ^{sequencing} 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 $\{S\}_L^k$ 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

Note: One can even optimize this whole process using authors [10] Universal Engineering Principle and also author's [] 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 ⑧ of
 this research manuscript, we should also check if
 it is worthy, ^(doing so) or not and this aspect can be worthily
 assured 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 ρ of the Recursional Field Intensity Strength Gradient
 Function characteristic of a Star, Galaxy, Universe or just
 the Interstitial Galactic Space wherein the Engine Primality perme-
 ates 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 ρ) 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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Moral

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

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