

*Theory Of 'Complementable Bounds' And 'Universe(s) In Parallel' Of
Any Sequence Of Primes Of Rth Order Space*

October 26th, 27th, 2015 onwards and before.

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White Paper One {TRL 21}

of

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Abstract

In this research monograph, the author enlightens a fact regarding the existence of ‘*Complementable Bounds*’ in any *Sequence Of Primes Of R^{th} Order Space*. Also, the author enlightens another aspect of finding the ‘*Universe In Parallel*’ of any *Sequence Of Primes Of R^{th} Order Space* in the *Sequence Of Primes Of $(R+1)^{\text{th}}$ Order Space* or for that matter any *$(R+v)^{\text{th}}$ Order Space* for ‘ v ’ being a positive integer. The author also presents some insights regarding how these aspects can be used as constraints on ‘*Quantization Based Evolution*’ are presented.

Theory

By ‘*Complementable Bound*’, the author means those bounds in a Sequence of Primes (of any order of space considered) from say, 1 to R such that with respect to this bound value, the values of a set generated by consideration of the values of $(R-i)$ where R goes from 1 through i , (where i is some intermediate Prime Number between 1 and R) is also a set of Prime Numbers of some order of space. Especially, when one computes such differences, one should note that given any Sequence of Primes, there exist such aforementioned bounds in it along its sequence such that the above condition is satisfied.

For a set with many bounds, the above condition can be slated as follows:

Let the Prime Sequence (of any Order Space) Set starting from 1 to R_b have r_b number of elements. And let such aforementioned bounds in this Sequence be represented by $[R_c, R_{c+1}]$ where c goes from 1 to g . Now, in the given set, we have for every $R_i \in [R_c, R_{c+1}]$, $\{(R_{c+1} - R_i) \in \text{Sequence Of Primes Of Some Order Space}\}$.

By ‘*Universe In Parallel*’, we mean a sub-set belonging to a Sequence Of Primes of Order less than (N) that of a set belonging to a Sequence Of Primes Of Order, say, N such that the set is gotten by considering magnification of the sub-set by some integral number. Simply put, it is $\{p_i\}$ for the given set $\{p_{i+1}\}$ or rather in a generic form, it is any $\{p_s\}$ for the given set $\{p_r\}$ where $s < r$. For example one can do so using the following equation:

Formula For Sequence Of Primes Of any Rth Order Sequence Of Primes

One can also note that the Sequence Of Primes Of any Rth Order Sequence Of Primes can be gotten using the following formula which was constructed using observation.

$$\{p_{i+1}\} = \sum_{k=j+1}^{\infty} \left\{ \{p_i(k)\} \{p_i\} - \sum_j p_i(j) \right\} \quad (1)$$

where $p_i(j)$ represents the jth element of the ith Order Dimension (Space) Sequence Of Primes.

Applications

One can use such notions of ‘*Complementable Bounds*’ and ‘*Universe In Parallel*’ in ‘*Primality Engineering*’ based applications such that when ‘*Sequence Of Primes Of Any Specific Order Of Space*’ of concern are considered to construct ‘*Primality Engineering*’ based applications, one can note that one can implement such applications from both directions of the quanta of Set of ‘*Sequence(s) Of Primes Of Any Specific Order(s) Of Space*’ by considering *Prime Metric(s)* in both (forward and reverse) directions wherein the *Prime Metric* in reverse direction can be constructed using the constraint ordered by the afore-stated author’s ‘*Complementable Bounds*’ concept. Such implementations can be rendered as a ‘*Quantum Canonical States*’ pair along the concerned two opposite directions. Furthermore, the whole of the ‘*Primality Engineering*’ based application of concern can span through the entire density (holistically) of the ‘*Complete Recursive Subsets {Universe(s) In Parallel} Of Set Of Concern And/ Or Orthogonal Universes In Parallel Of Set Of Concern In Completeness*’.

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Acknowledgements

The author would like to express his deepest gratitude to all the members of his loving family, respectable teachers, en-dear-able friends, inspiring Social Figures, highly esteemed Professors, reverence deserving Deities that have deeply contributed in the formation of the necessary scientific temperament and the social and personal outlook of the author that has resulted in the conception, preparation and authoring of this research manuscript document.

Tribute

The author pays his sincere tribute to all those dedicated and sincere folk of academia, industry and elsewhere who have sacrificed a lot of their structured leisure time and have painstakingly authored treatises on Science, Engineering, Mathematics, Art and Philosophy covering all the developments from time immemorial until then, in their supreme works. It is standing on such treasure of foundation of knowledge, aided with an iota of personal god-gifted creativity that the author bases his foray of wild excursions into the understanding of natural

phenomenon and forms new premises and scientifically surmises plausible laws. The author strongly reiterates his sense of gratitude and infinite indebtedness to all such 'Philosophical Statesmen' that are evergreen personal librarians of Science, Art, Mathematics and Philosophy.