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TRL Prime Metric Basis Change Theorem. (Universal Engineering Series).

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Prime Metric Basis Change Theorem

1. Firstly, we should know from author's [1] that any Number $x \in \mathbb{R}$ can be written as $N_{(j+d)}$ where $(j, n) \in \text{Positive Integers } \mathbb{Z}^+$ and $(0 < d < 1)$. Also, from [1], we can know that x can also be written as $(N+k)_p$ where $(N, k) \in \text{Positive Integers } \mathbb{Z}^+$ and $(0 < k < 1)$. Since the First Representation is much easier to use (as we have the Lists of Any Integral Order Sequence of Primes from author's [2]), we will use this Notation henceforth.
2. Furthermore, again, we can note that $N_{(j+d)}$ can also be written as $N_{(j_1/j_2)}$ where $(j_1/j_2) = (j+d)$ and $(j_1, j_2, j) \in \text{Positive Integers } \mathbb{Z}^+$ and $(0 < d < 1)$.
3. Also, we can note that $N_{(j_1/j_2)}$ can be further written as $\left(\frac{N_{j_1}}{j_1}\right) \left(\frac{N_{j_2}}{j_2}\right)$ which can be proved using an Illustration $\left(\frac{N_{j_1}}{j_1}\right) - \left(\frac{N_{j_2}}{j_2}\right)$ which can be proved using an Illustration as detailed below:

Ex: The first seven Elements of the 3rd order Universal Sequence of Primes being

Prime Basis No: j	1	2	3	4	5	6	7
$3p_j$	6	10	14	15	21	22	26
Factors	2x3	2x5	2x7	3x5	3x7	2x11	2x13

We can now note that $3p_{\frac{6}{2-3}} = 26 - 14 = 12 = \binom{3p_6}{7} - \binom{3p_3}{3} = 3p_{\frac{7}{3}}$

-R

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Prime Metric Basis Change Theorem (continued)...

4. Now, if we wish to write $N_{j_1}^{j_2}$, ie., $N_{(j_1/j_2)}$ in terms of other Basis, say M as $M_{(k+\epsilon)}$ or rather $M_{(k_1/k_2)}$ where $(k+\epsilon) = (k_1/k_2)$ and $(k_1, k_2, k, M) \in \text{Positive Integers } \mathbb{Z}^+$. That, is in the Basis of $(M_{k_1}) - (M_{k_2})$.

5. We now use the Value of $(N_{j_1}^{j_2}) - (N_{j_2}^{j_1})$ and ascribe the Equivalence $(N_{j_1}^{j_2}) - (N_{j_2}^{j_1}) \equiv (M_{k_1}) - (M_{k_2})$ for implying the Basis change. We now use the Value of $(N_{j_1}^{j_2}) - (N_{j_2}^{j_1})$ and by inspection, we find the Value of M and approximate value of (k_1/k_2) ie., $\left\{ M_{(k_1/k_2)} \right\}$ ~~for which~~

~~the~~ using author's [2].

6. We now Set up the author's Norm Conservation Equation under Basis Change [1] and write

$$\left\{ \text{Norm} \left(N_{j_1}^{j_2} \right) - \text{Norm} \left(N_{j_2}^{j_1} \right) \right\} = \left\{ \text{Norm} \left(M_{k_1} \right) - \text{Norm} \left(M_{k_2} \right) \right\}$$

7. Now in equation 6, N, M, j_1, j_2 are all known and for a given Minimum possible Positive Integer k_1 , we find the Positive Integer k_2 . Note that though we have many choices for k_1 to satisfy the above equation, the Minimum possible Value chosen will prove quite useful when we create an Algorithm of this approach.

8. The found k_2 , and picked k_1 and known N, M, j_1, j_2 together define the Process of Prime Metric change in Completeness. -RL

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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.

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