

Simply-variable Step-function and (meta_m)ⁿ-consciousness:

The function $f(t): \mathbb{R} \rightarrow \mathbb{R}$, where \mathbb{R} is a set of real numbers $\{\mathbb{R}\}$, is a simply- variable (i.e., without a closed loop) step-function of the form

$$f(t) = \sum_{i=1}^m \alpha_i(t_i) \chi_{A_i}$$

where $\alpha_i = \alpha_i(t_i)$ are simple curves in the intervals from A_i to A_{i+1} , A_i are intervals and $\chi_{A_i}(t)$, often written as $1_{A_i}(t)$ is the indicator function of the interval A_i s.t.

$$\chi_{A_i}(t) = \begin{cases} 1 & \text{if } t \in A_i \\ 0 & \text{if } t \notin A_i \end{cases}$$

where A_i can be assumed to have two properties:

- (1) $A_i \cap A_j = \emptyset$ if $i \neq j$
- (2) The union of the intervals, i.e., $\bigcup_{i=1}^n A_i$ is the whole number line.

The Lebesgue Integral of the variable step function can be represented by:

$$f(t) = \sum_{i=1}^m \alpha_i(t) \chi_{A_i} = \sum_{i=1}^m \alpha_i(t) l(A_i) = \sum_{i=1}^m l(A_i) \int g(t') dt' = \int_{m=1}^{\infty} \left[\int_{n=0}^1 (\text{meta}_m)^n - \text{consciousness}(t') dt' \right]$$

where $l(A_i)$ is the length of the interval A_i .

Hence, **Metaconsciousness** = $f(t) = \int_{m=1}^{\infty} \left[\int_{n=0}^1 (\text{meta}_m)^n - \text{consciousness}(t') dt' \right]$

(meta_m)ⁿ-consciousness, $0 < m \leq \infty$, $0 < n \leq 1$

(meta₁): The awareness of being aware.

(meta₂): The awareness of Empathy

(meta₃): The awareness of Morality

... .. and so on ... $0 < n \leq 1$

(meta₄)ⁿ, $0 < n \leq 1$: The awareness of a race, a nation state. Awareness of sufferings of the community because of natural calamities or attack from invaders. Variously may be called as the National Identity state.

(meta₅)ⁿ, $0 < n \leq 1$: The awareness of similarities and unity between the entire human race as one living organism. Variously may be called as the Humanism state.

(meta₆)ⁿ, $0 < n \leq 1$: The awareness of the world's Biosphere as one living organism and the plights of being alive in a very fragile ecosystem. Variously may be called as the Witness state.

(meta₇)ⁿ, $0 < n \leq 1$: The awareness of the entire Life-form of the Universe as one living organism. Their life because of the ravages of the reigning chaos in the Universe. Variously may be called the God State.

(meta₈)ⁿ, $0 < n \leq 1$: The awareness of the entire Universe as one Unit of Living and the non-living. That the reigning chaos is required for creation of new lives, and devolution into chaos to create something new and better still. Of a greater multiverse, of Universes, of an Universe within an Universe. Variously may be called as the Brahman state of the Upanashada.