

# Mathematical Foundations of Biopsychology – Part I

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Interactions between microvita and neuronal assemblies can be described either in general or in mathematical terms. Descriptions in general terms naturally lack precision, whereas the mathematical terms lack comprehensibility. In this context, nevertheless, I prefer the mathematical, i.e. the matrix mechanical description. Consequently, neuronal assemblies have to be rephrased in a compatible language.

Now, an activated neuronal assembly ( $A_n$ ) can be described by the matrices of its knots ( $Q_1, Q_2, \dots Q_n$ ), the frequency of its oscillations ( $\nu$ ), and the duration of these oscillations ( $D$ ).

Then,  $A_n = (Q_1, Q_2, \dots Q_n)_\nu^D$

can be influenced by imaginary particles  $Q_i$ , if and only if positive or negative microvita ( $\text{अ}^+, \text{अ}^-$ ) are able to transform them into the real particles  $Q_r$ , suitable for a quantum Zeno or anti-Zeno effect, which prolongs or curtails the duration of its activated state.

Among the countless possibilities, tantric yaogies identified fifty, which represent our basic propensities, denoted by the following syllables:

1. vam, sham, shham, sam,
2. bam, bham, mam, yam, ram, lam,
3. damm, dhamm, namm, tam, tham, dam, dham, nam, pam, pham,
4. kam, kham, gam, gham, nam, cam, cham, jam, jham, nyam, tam, tham,
5. am, aam, im, iim, um, uum, rim, riim, lri, lriim, em, aim, om, aum, ham, aham,
6. ham, ksham.

Each one of them can be written as

$A_n = (Q_1, Q_2, \dots Q_n)_\nu^D$

with different numbers for  $n$  and  $\nu$ , but  $\nu_6 < \nu_1 < \nu_2 < \nu_3 < \nu_4 < \nu_5$ . The duration of these oscillations ( $D$ ), their life time and actual importance, however, can be controlled by microvita!

According to yaogic traditions, these neuronal assemblies are combined to form six groups with

$G_1 = \Sigma(\text{vam, sham, shham, sam}) = \text{lam,}$

$G_2 = \Sigma(\text{bam, bham, mam, yam, ram, lam}) = \text{vam,}$

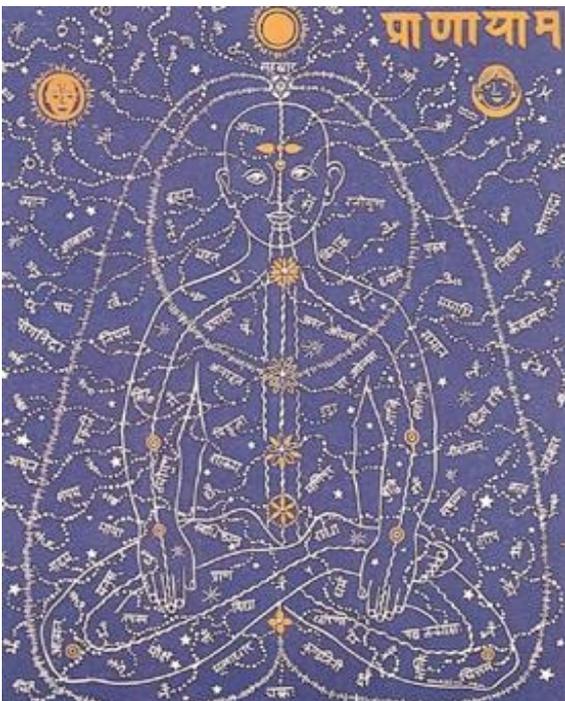
$G_3 = \Sigma(\text{damm, dhamm, namm, tam, tham, dam, dham, nam, pam, pham}) = \text{ram,}$

$G_4 = \Sigma(\text{kam, kham, gam, gham, nam, cam, cham, jam, jham, nyam, tam, tham}) = \text{yam,}$

$G_5 = \Sigma(\text{am, aam, im, iim, um, uum, rim, riim, lrim, lriim, em, aim, om, aum, ham, aham}) = \text{ham,}$

$G_6 = \Sigma(\text{ham, ksham}) = \text{aum.}$

At specific points, each group of neuronal assemblies can be pumped with energy. The points have been found experimentally; they are located near the spine and named [Muladhara](#), [Swadhisthana](#), [Manipura](#), [Anahata](#), [Vishuddha](#) and [Ajna Chakra](#) (1).



Regarding the pumping of biological oscillators, a good summary can be found at (2); a critical review has been published by Reimers et al. (3).

- (1) Wikipedia contributors: [Chakra, Wikipedia, The Free Encyclopedia, 25 March 2013](#)
- (2) Vasconcellos A. R., Vannucchi F. S., Mascarenhas S., Luzzi R.: Fröhlich Condensate: Emergence of Synergetic Dissipative Structures in Information Processing Biological and Condensed Matter Systems. [Information, 3, 601–620 \(2012\)](#)
- (3) Reimers J.R., McKemmish L.K., McKenzie H.R., Mark A.E., Hush N.S.: Weak, strong, and coherent regimes of Fröhlich condensation and their applications to terahertz medicine and quantum consciousness. [PNAS, 106, 4219–4224 \(2009\)](#)