

The claimed mechanisms of homeopathic healing and the method of manufacturing homeopathic potencies are not the only paradoxical aspects of homeopathy. Also the reported frequency imprinting and entrainment, codes based on field patterns, and associative learning of water look mysterious in the framework of standard physics.

\vm{\it 1. Frequency imprinting and entrainment, and scaling laws}  
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Frequency imprinting and entrainment at preferred frequencies are believed to be fundamental for homeopathy and acupuncture.

Homeopathy seems to involve two kinds of scaling laws which seem to be closely related. What I call scaling law of homeopathy states that homeopathic frequencies appear in pairs  $(f_h, f_l)$  of high and low frequencies such that their ratio is given by  $f_h/f_l \simeq 2 \times 10^{11}$ . TGD approach explains this ratio predicts a generalization of the law.  $v = Lf_l$  scaling law tells in TGD framework how the frequencies associated with generalized EEG code for the velocities of physiological waves and their frequencies  $f_h = cf_l/v$ . The general model for motor control by magnetic body predicts this scaling law.

The hierarchy of Planck constants explains this scaling law and generalizes it. The two frequencies correspond to  $f_l$  associated with dark photon with  $h_{\text{eff}} = n \times h$  and to  $f_h$  associated with ordinary photon giving  $f_h/f_l = n$ . Bio-photons would result in energy conserving decays of dark photons to ordinary photons.

\vm{\it 2. Basic inputs from TGD}\vm

The model for DNA baryon leads to the proposal that genetic code as well as DNA-, RNA- and amino-acid sequences should have representation in terms of nuclear strings. The model for dark baryons indeed leads to an identification of these analogs and the basic numbers of genetic code including also the numbers of amino-acids coded by a given number of

codons  
are predicted correctly. Hence it seems that genetic code is  
universal  
rather than being an accidental outcome of the biological  
evolution.

The findings of Pollack about exclusion zones and fourth phase of  
water

provide additional ideas. In TGD framework exclusion zones would  
correspond to dark  $H_{3/2}$  phase of water with every fourth  
hydrogen

atom or proton taken to the dark flux tubes. This makes the  
exclusion zone

negatively charged. The magnetic body of this kind of region would  
define

fundamental representation of the magnetic body of the invader  
molecule.

Not only cyclotron frequencies, but possibly also braiding would be  
represented, even 2- braiding involving reconnections. This leads to  
the

idea that exclusion zones are primitive life forms having magnetic  
body

containing dark matter. Most importantly, are representation of  
genetic

code in terms of dark proton sequences would be realized at the flux  
tubes

of the magnetic body.

\vm {\it 3. How immune system might have evolved?}\vm

Organism or prebiotic life form living in water must recognize the  
invader

molecule and here reconnection of the flux tubes of magnetic bodies  
is here

the key mechanism: it would provide basic mechanism of attention and  
recognition. This requires that the strength of magnetic fields at  
flux

tubes are same and organism could vary it by varying the thickness  
of the

flux tube carrying monopole flux. This would also involve cyclotron  
resonance taking place simultaneously. If dark ELF photons are

involved the

cyclotron resonances can have energies visible and UV range  
characterizing

bio-photons. This energy range corresponds also to excitation  
energies of

various bio-molecules.

A further element comes from the observation that dark proton  
sequences

could give rise to dark DNA. These sequences would reside at the  
flux tubes

of the magnetic body associated with the exclusion zone. They would define dark variants of proteins and amino-acids. The key idea is that dark variants of amino-acid sequences would have coded not only for the braiding of the magnetic body of the invader but also for the 2-braiding (temporal development of braiding) of the magnetic flux tube patterns defining invader molecule as a dynamical process: dark proteins would mimic physically the braiding of invader molecule's magnetic body.

Dark DNA sequences would have coded this braiding symbolically and their translation to dark amino-acids would transform symbolic representation to a concrete physical one. The emergence of ordinary DNA and amino-acids would have realized the same at biochemical level and amino-acid sequences representing the invader would serve as antigens attaching to the invader molecule. Not only the pattern produced in protein folding but also the temporal pattern of protein folding would be coded by DNA.

#### \vm{\it 4. Model for the homeopathy}\vm

The model of homeopathy must explain the effectiveness of homeopathic remedies manufactured by a repeated dilution and succussion. This can be understood if part of chemical involved is transformed to dark matter and is also represented by water clusters or dark super-nuclei formed from protons. This minimal representation involves thermally stable dark cyclotron frequencies. If inherently dark atoms and molecules with essentially same energy spectrum as ordinary ones are possible, also the mimicry of vibrational and rotational spectrum is possible by clusters of dark water molecules.

One must also understand why homeopathic remedies are manufactured from molecules which basically cause the symptoms to be cured. This brings strongly in mind the functioning of immune system: when the organism is exposed to the substance causing the health problem, immune system

develops  
resistance. Maybe something similar happens in homeopathy in the  
sense that  
the homeopathic remedy representing the substance induces  
resistance. A  
representation carrying information about the biologically important  
aspects of the substance would be therefore needed.

This suggests that the manufacturing of the homeopathic remedy  
generates  
replicating primitive life forms analogous to the exclusion zones.  
The  
repeated mechanical agitation could feed to the system metabolic  
energy and  
induce the formation of new exclusion zone like regions mimicking  
the  
magnetic body original invader molecule or the already existing  
representations of it. Even quantal evolution at the level of dark  
DNA  
could take place. The final outcome would be population of  
primitive life  
forms representing the invader. This representation would in turn  
induce  
generation of immune response.