

New view about water

The **notion of MB** and identification of **dark matter as $h_{eff} = nh_0$ phases** lead to a new view about water.

1. Water would consist of phases, which correspond to different values of h_{eff} associated with magnetic flux tubes giving rise to **dark analogs of hydrogen bonds** having long length and giving rise to quantum coherence at long length scales. Dark hydrogen bonds would give rise to long range correlations and **scaled-up analogs of water clusters** (<http://tinyurl.com/ydhknc2c>).

There is indeed evidence that water consists of **at least two phases**. **Thermodynamical anomalies** are strongest around **physiological temperature** which suggests that the new phases are crucial for biology.

2. Dark flux tubes could contain dark proton sequences identifiable as **dark nuclei** with much smaller binding energy (scaling as $1/h_{eff}$) (<http://tinyurl.com/yygqen5g>). They could be long. The model of genetic code suggests that dark 3 proton triplets analogous to tritium and ^3He are in essential role in quantum biology and give rise to a realization of dark analogs of bio-molecules, dark DNA codons (DDNAs) and of genetic code. They would attach by flux tube appendixes to longer flux tube defining **dark genes** as analogs of dark nuclei.
3. Dark flux tubes carry **monopole flux**: this is the basic difference from Maxwellian electrodynamics. Conservation of flux means that variation of flux tube thickness induces that of magnetic field strength and cyclotron frequencies. The magnetic bodies of molecules and other objects are characterized by cyclotron frequencies associated with their flux tubes. This information characterizes their bio-activity.
4. **Water can mimic molecules** by varying the thickness of flux tubes by varying B : this gives rise to an analog of radio receiver. Flux conservation forces the variation of B . The flux tube structures produce dark **“fake” molecules** making possible homeopathy as a generation of immune response without chemical side effects. The agitation of water in homeopathy provides the metabolic energy for the growth of the population of “fake” molecules.

When the thickness is tuned particular cyclotron frequency, the flux tube can serve as **sending and receiving antenna**. It serves also as a magnetic dipole acting as a **compass needle**. When the orientation of external magnetic field differs from that of the flux tube, flux tube generates dark cyclotron radiation and the detection is communicated to the level of chemistry. This allows to overcome the problems of standard quantum biology due to the too small value of h .

Example: **bird navigation** (<http://tinyurl.com/rw58zaz>).