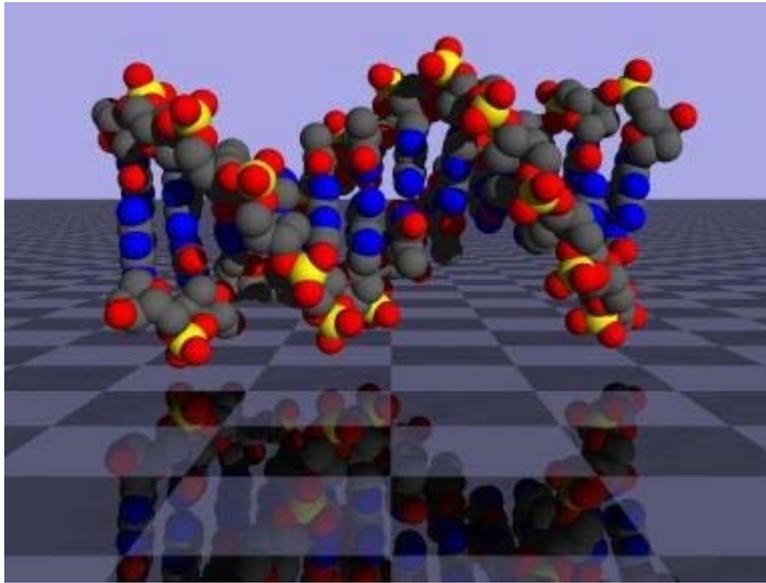


*Multilevel investigation on "Telepathy" : **frontiers on transdisciplinary science & art***  
**QUANTUM - ENTANGLEMENT & TELEPATHY& VIRTUAL REALITY**

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**Erwin Schrödinger, a Nobel Prize in physics in 1935 writes about *quantum entanglement*:**

*"When two systems ... enter into temporary physical interaction due to known forces between them ... they can no longer be described in the same manner as before ... by the interaction the two representatives (or wave functions) have become entangled"*

(What is Life p. 18).

***Rationale for a new Project/idea.***

It's possible to link together two quantum particles – photons of light or phonons of sound and also atoms , ions or DNA's genes , in an entangling way , that makes them over the same space-time matrix. The entangling overposition carry out an "*Quantum state of dense coding*", that become identical for all the particles remaining intrigued to the same resonant and coherent field. Therefore Entanglement generates a *no-local dense coding state* that would be useful to understand "*entanglement-communication*" (or *telepathy*) through the recent research *quantum communication and teleportation*. (1) In fact in classical coding, a single photon will convey only one of two messages, or , one bit of information, while in dense coding, a single photon can convey one of four messages, or two Q.bits of information. Besides multi-photons and multi-photons entanglement can produce an new *hyper- no-localized space-time*, and this complex interactions is producing a bidimensional "***information energy***" (2) ,(3),(4) Therefore entanglement *acts to change the traditional structure of spacetime*, contracting and expanding distances between objects as the waves passes through the previous locality to a no-local flat system characterized by two vectors of space an two reverse vectors of time. Therefore telepathic or simultaneity in communication between two separated particles, is one of the fundamental concepts of entanglement in Quantum Bio-Physics .Then in this line of reasoning it is possible to understand *DNA's telepathy* (5)

More in general "*telepathy*", and "*empathy*" , respectively are derived from the Greek "*tele = distant*", and "*en = interior*" , and "*patheia = feeling or phatos*" , and are the claimed as innate ability of brains to communicate information and emotions, from one individual to another *in simultaneity*, e.g. without the use of extra tools, so that without consuming energy. Recent studies on mirror neurons discovered by *Giacomo Rizzolatti* of the University of Parma (It), confirm the hypothesis that *empathy* is part to an activity of coupling between genes . (6), (7) The possible application of *telepathy* as one kind on entangled mind's communication, find today the *skepticism*

of the reductionistic mechanical science; in spite of this, the “Open Network for New Science and Art” (ON-NS&A) research group, would be discuss and investigate “telepathic phenomena” as a possible aspect of communication between members of insects animal social groups .Recent research for quantum *no-local processes in neurons* strongly suggest that biological systems present non-local properties not explainable by mechanical science models.(8)

For instance *bees* seem to have communication telepathic skills; whether in fact *queen-bee* dies the swarm loses simultaneously every form of organizational-guidance.

As a matter of facts, overcoming any easy skepticism, we think that it is important to reply to the question “*what is the origin of self organization in nature in relation to the simultaneity of entangled communication ?*”

For example, “*the allegorical blind men focused on parts of an elephant, and each man produced an idiosyncratic, ad hoc model of the animal e.g., a tree, a wall, a snake, a rope. Because elements of elephants do not exist independently of whole elephants, understanding the relationship among the parts requires an simultanean intuition comprehending the whole animal existence*”.

Brain's entanglement, at human scale, thus can be generated as a new approach about the self organization of the brain working at subliminal level. So that , in an stimulated virtual environment, we estimate that *human computer assisted telepathy*, can be easlily tested . (9),(10)

Therefore following those rationale of the ON-NS&A project , we believe to stimulate, through a full immersion in *virtual environment*, the brain functions in order to produce a *dreaming brain's vision*, that facilitates the expression of *digitally-assisted human telepathy*. (12)

Actually the ON-NS&A research Group, is searching for partners to develop the above project-idea, oriented to *bridge* the gap between reality and virtual reality in the context of the contemporary frontiers of transdisciplinary science & art.

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