

The Quantum Brain Theory: an enlightenment of advancement of brain process. The brain works as a tool of quantum perception. Idea Project proposed by EGOCREANET (ONG- FLORENCE-IT)



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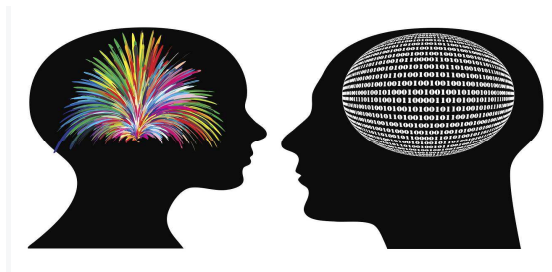
PREMISE: The brain constructs images colors, sounds, and other sensations communicating interactively through connections (dendrites and synapses) that have nano-dimensions such as nano-technology that behave the ability to interact through a network communication of quantum information.

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QUANTUM-COMMUNICATION

Quantum communication science is an area of study based on the idea that information depends on quantum effects.- In quantum computing a neural network becomes saturated quickly and works on a timeline as the nodes of the network (facsimile of neurons) are deemed to be "fixed", while in quantum neurobiological brain that nodes are created and annihilated in the crevices of synaptic neurotransmission according to a formalism similar to that of quantum field theory for information it is diffused via the entanglement // dis-entanglement that allow the simultaneity 'exchange' s information, either sequentially or in parallel.

In that sense, the **QUANTUM BRAIN** based on nano-synaptic processes may express a huge range of applications in rational sequences in vertical and parallel ways of exchanging information. Both of these forms of communication, from one side works ad linear in time and from the other side it is based in simultaneity of formation of the logical and creative thinking. Those complementary quantum brain activities lead both biophysics and quantum science of life to explain complex forms of cross-disciplinary understanding of various mental activities ,going beyond the traditional domain of quantum mechanics of particles, and hence moving forward the cognitive limits to which quantum science born starting from the principle of uncertainty (1927) and then it is evolved in the last century.



THE QUANTUM BRAIN : (1)

David Bohm (2) at the end of the last century quantum physics developed a "holistic" quantum theory capable of overcoming the apparent contradictions between physics and relativistic quantum mechanics, pointing to the existence of a new interpretation of 'energy of the' universe that it is including the 'man not only as an observer but as a participant objectively the level of evolution of life' universe (3)

Based on this theoretical approach today the QBT develop some trans-disciplinary recent interpretation of bio-nanotechnology related to neuroscience (Nano-Neuro Biology), introducing the observation about the action of micro tunnelling of carbon tubules that are inserted in the brain and used to promote the regeneration of the interface's bio-power between dendrites and synapses. (4) The above leads to the conclusion that the brain can act on two coherent systems : the sequential one based on the model of "synaptic quantum tunneling" between near -neurons, while creating a second level of quantum functions ,that are determined by the over-position or overlapping of quantum particles (e.g. entanglement) in the synaptic gaps. Therefore the QBT generate a large share of synergistic actions and may give explanation to the emergency the consciousness. (5)

The QBT permit also the complete overcoming of the arbitrary splitting between subject and object . So that a generalized quantum nature of matter and of the energy may embody also the human domain of brain's information and the quantum science is the deep root embodied in all the form of scientific and artistic thought.

We know that the development of consciousness, as it derives from its etymological meaning (in Latin : "con-scire" = Knowing together) Therefore consciousness nowadays it is becoming dependent on a change of perception of reality generated by the QBT. Hence, by following the quantum conception of perceptual functioning of the quantum brain, we can understand that what we see, hear and feel is generated as quantum-brain scenarios expressed in terms of probability of our interactions with the 'environment. This assertion leads to a higher process of reflection that opens new creative opportunity of a conscious artistic expression of the Quantum Art contemporary movement , and provides a new order to 'imaginary contemporary scientific thinking , finally it is leading to new developments in communication technologies such as Augmented Reality.

In conclusion, on the basis of QBT approach on Cognitive Neuro-science, (in cooperation with Quantum Art Movement –(6), EGOCREANET would favor a large participation and collaborative sharing of Scientists, Artists, and Technologists of communication in A.R. to develop a Project for the calls HORIZON-FET 2015, to make an advanced dialogue on this important and complex issues for the future developmental strategy of "CREATIVE EUROPE (7)

Biblio-on-line:

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- (2) David Bohm: <http://www.david-bohm.net/>
- (3) What Means Life: http://www.edscuola.it/archivio/lre/what_means_life.htm
- (4) <http://journal.frontiersin.org/Journal/10.3389/fnsys.2014.00091/full>
- (5) QUANTUM CONSCIOUSNESS: <http://www.quantumconsciousness.org/>
- (6) Quantum Art Blog: <http://dabpensiero.wordpress.com/>
- (7) Quantum Creativity: <http://www.12manage.com/myview.asp?KN=4122>