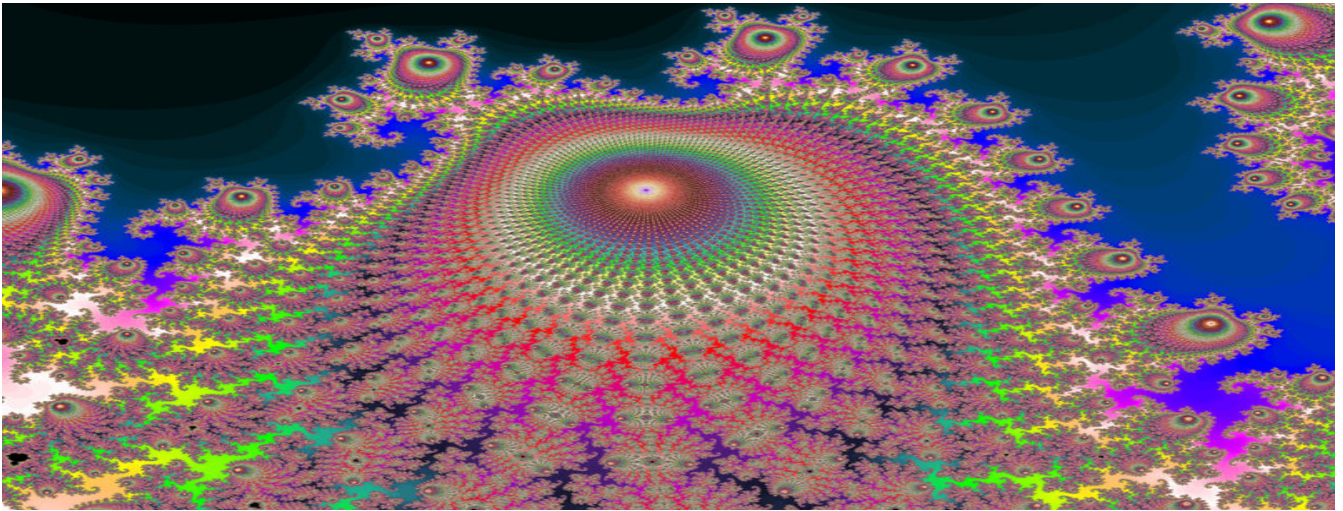


“Entanglement in Bi-dimensional “space -time”

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Entanglement effect among Quantum Particles, is associated with its quantum *non-locality* of communication, so that Entanglement effect, is a possible solution of the “*simultaneity*” of information exchanges at distance **to drive the self organization in natural phenomena**. (1)

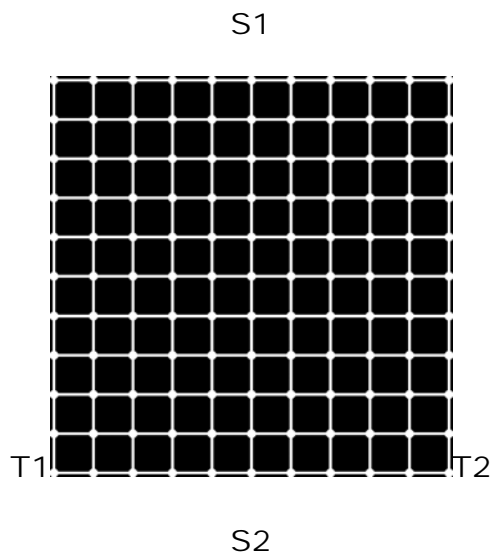
The “*simultaneity*” is a consequence of topological changes in space-time coordination generated by the superposition of entangled Q. Particles, caused by various *coercion-factors*, producing an overlapping of Q. Particles, as strong molecular collisions, cavity fields of confinement, etc .

Hence Entanglement effect consists in to wire together two or more oscillating Q. Particles, *through an action of confinement*, that change the space-temporal structure of Energy . In fact the Q. particles transform their masses, in Bonding Energy (*BE*), as stated by the Einstein equation of relativity, while the waves associated, lose their three-dimensional structure, to become after the entanglement, a *flat-field of energy* living in bi-dimensional in space and time.

This bi-dimensional field is named “*Information Energy*” (**EI**), this because it is composed by two bits of coupled Space-Time Dimensions in a plane <2DS+2DT>. Hence the *confinement action* generate an “Information Energy”; then the activity of compression and confinement is responsible of the (**EI**) structure in a plane-extension, whose double temporal dimension allows the *simultaneity of events*, as happen in a communicative mirror or into a reproduction of an '*echo in a cavity*'.

The Structure of **EI** can be described as a *plane field of potential energy*, with the vector's coordinates $S1/S2 + T1/T2$. In this field the information behaviour assumes the *Holographic principle*, in fact the information state is fully enfolded in every square on the “*informational- seed*”, living in two dimensional surface of space-time; this because all the extended field belong to the same quantum information state. Certainly any *holographic square – unity*, has fixed $2DS+2DT$ boundaries, but the complete extension of this **EI field**, can modify the proper extension of the flat “space-time”, changing the tension of the *coercion- factors* and also can develop possible torsions among multiplicity of the square holographic units, that composes the **EI field**, in a way

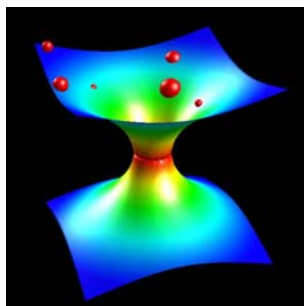
to obtain, some switch in energy levels , to change the shape of the *simultaneity of information-propagation* through the entire extension of **EI field**.



Holography –square -units , in “no-local” field of information energy.

More in general in the “**Entanglement Theory** “ (3) , we admit that the spatial –timing structure will be modified in order to understand how the form of interactivity between energy and matter can be determined by the nature and "*organizational structure of four vectors* " of the space-time continuum. Therefore the matrix of Space-Time can assume three organizational forms : e.g.

A) - (S1,S2,S3,T1) when the Q. Particles are free ; **B)** – (S1,S2,T1,T2) when the Q. particles are entangled ; **C)** - (S1,T1,T2,T3) , when the Q. particles , are trapped into a Black Hole.



BLACK HOLE

Hence, in spite of the Einstein’s conviction that ‘s *instantaneously of communication* need to be considered as a “*spooky action at distance*”, Entanglement is the state in which one Q. Particles instantaneously affects the other , in order to maintain long distance correlations between particles in a way that *self organization of transformation between energy and matter* in the Universe, can be developed in a contemporary evolution.

In short conclusion it is interesting to observe that the origin and nature of “*gravity*” can be seen as an immediate connection among all the masses of Universe . Therefore, a possible solution of the

Entanglement theory (3) , in agreement with the production of bi-dimensional space-time structure , would alter the classical relativity based on three-dimensional space-time ?

Certainly we know “**gravity field**” is an integral permanent feature that belongs to every form of matter and radiations, that it spreads out the entire the Universe.

In fact the *gravity effect acts simultaneously as an “ no –local entity”* , with the square of the distance e.g. with the same amount of the energy in every long- distance.

So that we ask : nowadays can be possible to envisage that, the *original confinement activity* generates a permanent Entanglement also in macroscopic objects, so that the “*Original Entanglement*” should be the effective cause of gravity?



ENGLEMENT OF MACROSCOPIC OBJECTS

Henceforth we advocate that today it would be possible to remove the disagreement that exists between macroscopic classical, local gravity and macroscopic nonlocal quantum mechanics .

About **those** open questions the Group OPEN NETWORK OR NEW SCIENCE and ART (ON-NS&A) – will organize a meeting in Florence (IT) a meeting on the issue : “**The Emergence of Self-organization and information phenomena in Science and Art** “ (6) .So that now we search for adhesions of scientists and artists willing to debate the fundamental aspects of contemporary science. For more information : pmanzelli@gmail.com

BIBLIO ON LINE

- (1) - Self-Organization and Energy Conversion : <http://www.wbabin.net/science/manzelli31.pdf>
- (2) –Triadic Q-Energy: http://www.edscuola.it/archivio/lre/triadic_quantum%20_energy.pdf
- (3) –ENTANLEMENT THEORY : <http://www.wbabin.net/science/manzelli11.pdf>
- (4) Theoty og Gravidic Propulsion. <http://members.shaw.ca/mike.anderton/>
- (5) ON-NS&A : <http://www.quantumbionet.org/admin/files/Firenze14-11-2008.pdf>