

Definition of Information Energy
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Space-Time topological changes.

(see my papers on Bio-Quantum Physics in <http://www.wbabin.net>)

Squeezed fluctuation of space-time dimensions are dependant on the energy field drop below the metastable state of entangled particle to the lower quantum state associated with the vacuum state of the pure information energy field. i.e the Ground State of Q.Energy. (GSQE)

The vacuum state is extended and delocalized as it is experimented firstly by the Casimir Effect (1948) . Therefore the "GSQE" needs to include D as a fundamental Q.level of energy to maintain the principle that total energy cannot be created or destroyed. In principle we need to accept a space-time modification from a local dimension of space time, characterised by a cube of three dimensions of space and one coordinate of time, to a symmetrical space time new dimensions, where Information Energy exists in a time duration ($T1, T2$) and in relation to two positions in space ($S1, S2$). Information at "GSQE" therefore is based on a bi-dimensional time and bi-dimensional space vector's coordinates e.g is composed by a bit of space and a bit of time.

In fact the Euclidean space is not the only way to describe the topology of space time quadri-vector. So, how many ways q. particles can be in relation to different building blocks of space-time? The permutation that can be considered are fundamentally three:

The one corresponds to a cube of three dimensions of time and only one dimension of space, that describes the permutation of energy in the so called "negative energy". In fact when pairs of particle and anti-particle annihilate, this does not annul their energy but transforms space-time dimensions. Hence annihilation cannot be a "complete energy destruction". In Q.physics, the annihilation occurs when a subatomic particles collides with its respective antiparticle. Since energy and momentum can be conserved, the particles are not actually made into nothing, but rather into new particles carrying "negative" energy.

Different is the case of the ground state enriched through the metastable "entangling" of q.particles. The permutation in a symmetric two dimension of both space and time permits the transfer of energy from a classical local space-time dimension to a delocalised one, belonging to the zero point level. In this "GSQE" exists "virtual particles" able to recreate other permutation of other space times vector coordinates. In the case of pure Information Energy, "virtual particles" can be transferred at distance without transforming energy into heat; this is because in the case of down-conversion to the quantum ground state, the only physical rule is the conservation of total energy that is not associated with the complemented conservation of momentum. The spontaneous transfer of information of non-classical states arises as a result of quantum vacuum squeezed fluctuations in account of spatial and temporal characteristics of the "GSQE" of pure information energy.

BIBLIO ON LINE:

Squeezing research :<http://www.its.caltech.edu/~qoptics/squeeze.html>

Quantum Physics in Brief : <http://www.aip.org/history/heisenberg/p08.htm>

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