

by his own free choices, to hold stably in place a chosen brain activity that would normally fade away (Stapp 2012 (95)).

In his book *Mind, Matter, and Quantum Mechanics*, Henry Stapp (96) states on pages 271 f:

“Still, I believe that there will be near-unanimous agreement among quantum physicists that, to the extent that a rationally coherent conception of physical reality is possible, this reality will be informational in character, not material. For the whole language of the quantum physicist, when he is dealing with the meaning of his symbols, is in terms of information, which an agent may or may not choose to acquire, and in terms of Yes-or-No answers that constitute bits of information.

“Just getting that one idea across could make a significant inroad into the corruptive materialist outlook that, more than three-quarters of a century after its official demise as a basic truth about nature, still infects so many minds.”

Henry Stapp’s significant contribution to the discussion about the interpretation of quantum physics—which he arrived at in agreement with physicists such as Roger Penrose—is the conviction that material nature can be influenced by human consciousness through macroscopic quantum states in the brain (Hameroff, Penrose 2017 (97)), and that this level of reality is the level of information, which in relation to mind and consciousness is not just epistemic but of a fundamental ontological nature.

This is called the Information Field, through which the intention of consciousness can influence quantum processes like the physical noise generator contained in the proposed bioenergetic process. This was experimentally proven by the PEAR Lab experiments (Jahn, Dunne, 1999 (98)) and used as

the scientific basis for Roger Nelsons Global Consciousness Project (Roger Nelson 2008 (99)). The concept of an ontological level of information (Information Field), influenced by consciousness and creative acts of the mind (Stapp 1993 (100)), and interacting to matter through the stochastic collapse of the wave function is a common conclusion of many researchers, including Henry Stapp (Penrose, Laszlo, von Neumann, David Bohm, etc), (Martin, Carminati 2017 (101); Penrose, Hameroff 2017 (102)). In this way, the concept of a field of information (or Information Field) has a solid scientific basis as the next step beyond the limited and naïve belief that physical nature is purely ruled by random processes and that consciousness is not a fundamental ontic reality that has no effect on matter. The very concept of a quantum theory and the experiments of PEAR Lab (Jahn, Dunne 1999 (103)) actually defeat this unsophisticated, materialistic version which continues to maintain the mechanistic worldview of Cartesian philosophy and Newtonian Physics.

Information Field controlled Frequency Applications

The discussed bioenergetic process uses the quantum-based physical noise generator to acquire guiding information from the global Information Field and the intention of the user (PEAR Lab 1999 (104)) (Jahn, Dunne 2005 (105))¹¹ (Jahn, Dunne

¹¹Robert Jahn and Brenda Dunne after two decades of research, at the PEAR lab of Princeton University, on influence of intention on physical random generators have concluded that intention, which is a content or function of consciousness, can interact with physical systems like physical noise generators, because it is included in the model of quantum physics, which they propose, as a wave function, which for example includes the specific intention as its content and interacts with an environment represented in the theory as a physical potential field:

“The model proposed in (Jahn and Dunne 1986 (106)) takes the position that reality is constituted only in the interaction of consciousness with its environment, and therefore that any

1986 (106)) to select a dynamic sequence of frequencies to guide the bioenergetic process towards:

- strong bioenergetic potential,
- balanced distribution of energetic levels of the matrix surrounding the cells, and
- the order/coherence of the whole bioenergetic organism (the body-related component of the individual Information Field).

The selective process of the Information Field-controlled choice of frequencies gives the organism a clear direction towards bioenergetic and bioelectric coherence and balance. According to the WQT (Walach 2005 (107)), all the parts of the global system are quantum entangled and form a wholeness of quantum inseparability.

The global Information Field, the bioelectric field, the physical noise generator, and the selected sequence of frequencies are the four components of a global system. According to the underlying intention of the Weak Quantum Theory, its four components are pair-wise quantum entangled. The physical noise generator acts as the central hub of this quadrupole system, connecting the

- global Information Field,
- bioenergetic field, and
- selected frequencies

...in a row of a circular informational channel.

scheme of conceptual organization developed to represent that reality must reflect the processes of consciousness as well as those of its environment. In this spirit, the concepts and formalisms of elementary quantum mechanics are appropriated *via* suitable metaphors to represent the characteristics of consciousness interacting with its environment. More specifically, we propose that if a consciousness is represented by a quantum mechanical wave function, and its environment, including its own physical corpus, is represented by an appropriate potential profile, Schrödinger wave mechanics yields eigen functions and eigen values that can be associated with the cognitive and emotional experiences of that consciousness in that environment."

1. Quantum Entangled Components of the Global System

Analogous to Harald Walach's explanation of complementary medicine processes by the WQT, two generalized quantum entanglements occur here, which are coupled in such a way —by a classical process of information transfer— that quantum teleportation of states can occur throughout the process (Walach 2005 (108)). In this case, the physical noise generator (A) and the global Information Field (C) are entangled with the bioenergetic field (B) of the user (the letters A, B, C, and ρ_i are classically used in the context of quantum teleportation).

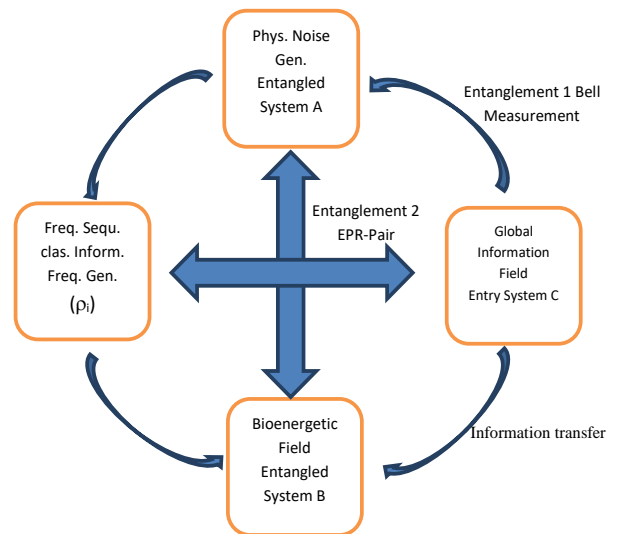


Figure 2. Double quantum entanglement in Information Field controlled frequency therapy in relation to quantum teleportation

These entanglements correspond to the mechanisms and results of the PEAR Lab research. Thus:

- the pattern of the global Information Field(C), as intended for the user,
- can be transferred to the bioenergetic field (B) of the user under one condition,
- namely that the information, how the global Information Field (C)
- has influenced the physical noise generator (A)

- is transferred to the bioenergetic field of the user in the classical way i.e. via the selected frequencies (ρ_i).

In the context of the physical mechanism of quantum teleportation, the second entanglement between the bioenergetic field and the physical noise generator is called an EPR pair of the Einstein-Podolsky-Rosen paradox, (109) and the first entanglement is called Bell measurement.

The following section describes the basic relationships of quantum teleportation using a simple diagram.

2. Double Entanglement and Quantum Teleportation

In the following figure, quantum teleportation is shown in a simplified form with all essential elements (110). The basic transmission path consists of the two photons, A and B, which are entangled by a quantum process. In this case, the bioenergetic field (B) of the user and the physical noise generator (A) are quantum entangled in a generalized sense. This entanglement corresponds to an extended application of the PEAR effect (111).

If the photon C is now entangled with photon A by a Bell measurement, the quantum state of photon C is transferred to photon B, but this is only effectively accomplished when information (ρ_i) about the Bell measurement is transferred to photon B via a classical channel (112).

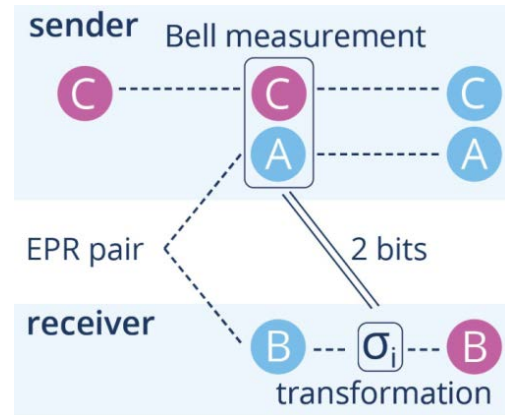


Figure 3. Principle of quantum teleportation based on double quantum entanglement

A Bell measurement does not provide information about the quantum state of the two photons A and C, but provides information about the Bell state containing information about the global state of both photons as a whole quantum object. Here, parts of the information about the individual photons remain hidden. In this measurement, both photons are entangled. In order to recover the information of the original photon C during measurement of photon B, the information about the Bell state of the A-C system must be transferred in a classical way (ρ_i) to decode photon B. In this example, it is done by applying the frequencies determined by the physical noise generator to the bioenergetic field of the user.

3. Double Quantum Entanglement in the Information Field Controlled Frequency Therapy

The physical noise generator technically has the task of selecting frequencies that currently have the strongest resonance with the bioenergetic field of the user, according to the influence of the global Information Field at a given time. The physical noise generator (PNG) works for this purpose like the ones used in the experiments of Robert Jahn and Brenda Dunne in the PEAR Lab experiments (113). The extensive research of Roger Nelson on the use of PNGs in relation to the global field of consciousness

