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**Meta-description:** Quantum theory has fundamentally changed the world view of classical physics. This results in a new image of man and new therapeutic options. The therapeutic square and the deep quantum effect are introduced to understand quantum effects in healing.

**Marcus Schmiede**

**Energy and Information Medicine, the Therapeutic Square and the Deep Quantum Effect**  
*Healing possibilities from the quantum theory with reference to the whole man*

### **Introduction**

Quantum theory has fundamentally changed the world view of classical physics. If these insights are applied to the human being as a whole, completely new therapeutic options emerge next to a new conception of man. This also includes the possibilities in energy and information medicine, which the author describes here and classifies into the overall complex of new research.

Quantum theory fundamentally revolutionized the understanding of matter in the twenties of the last century. Meanwhile, one- third of global economic output, from semiconductors in computer chips to lasers in CD players and magnetic resonance tomography, is based on the technical consequences of quantum physics.<sup>i</sup> However, only recently did science recognize its fundamental importance for understanding life and, in particular, consciousness. Applying quantum theory consistently to the human being as a whole, not only results in a new image of man, but it opens up completely new therapeutic options. The current energy and information medicine can be used in its sound and serious parts, as a partial or intuitive anticipation on the opportunities of a fully developed new healing culture. Likewise, a new healing art based on quantum theory could combine the traditional ways of healing of ancient cultures and primitive peoples with modern consciousness. These have always treated humans as a whole and never just a part or symptom. This characteristic of traditional healing methods points to an essential parallel to the holism of quantum theory. The term energy and information medicine covers a wide heterogeneous field of diagnostic and therapeutic methods and systems, which I do not want to deal with comprehensively or in detail in this article. Rather, I pursue the goal here of deducing from a consistent application of quantum theory to man as a whole a definition of a new art of healing, which

can also be characterizing for energy and information medicine. This approach seems to me to be promising, as some of the essential properties of energy and information medicine suggest a quantum view of reality:

- Man is seen as a unity of spirit, mind and body
- Man is also treated physically as a whole
- Information is said to have great effects, even if its energetic content seems negligible
- Energy transfer occurs mostly with specific resonance frequencies, to which special effects are attributed
- The conscious attitude plays a decisive role in the success of the therapy
- It partially works with non-local effects
- Spontaneous healing effects often occur, which cannot be explained causally

While many of these properties seem like magic from the perspective of classical physics, the quantum theory demanded exactly these properties for a system dominated by quantum effects. The question is not whether there are such effects within the scope of quantum theory, because this is clearly confirmed theoretically and experimentally, but only whether they are relevant to the human being as a whole and his health. From today's perspective, this question can only be answered in the affirmative. While classical medicine, following the paradigm of classical physics, considers subsystems separately and is often treated as monocausal, ignoring mental and psychological causes of disease, and in most cases acts symptomatically, basic biophysical research suggests that the human body in many ways functions like a quantum-holomorphism.

### **Quantum-Holomorphisms in biological systems**

The biophoton research of Fritz Albert Popp sees cell communication conducted by coherent photons. This means that ultra-weak electromagnetic quantum fields connect the cells in communication and the human body is penetrated by and controlled by the coherent electromagnetic quantum field of the lowest intensity.<sup>ii</sup> A quantum field acts as a whole and does not consist of individual parts that have to communicate with each other with difficulty. It is not until the measurement-process that the transition to a classical system consisting of individual parts takes place, but this already disturbs or destroys the field. Similarly, one also sees the molecular or atomic composition of the body only when one examines it with such high energy particles that exactly this atomic or chemical structure is destroyed. A biological system that is not subjected to such an analysis consists of a whole and forms spatially comprehensive holographic quantum structures, with photons playing a dominant role.

This is also true in the central nervous system, whose neural networks form macroscopic coherent quantum states that can span millions of neurons. Leading research groups today assume that these neural quantum holograms can only bring about awareness when they cover larger areas of the brain.<sup>iii</sup> In terms of the individual elements of such a system, it looks like that they swing in a harmonic phase relationships. From the quantum perspective, however, they form a whole that only decays into individual parts when observed with sufficiently high-energy processes, which always destroys the wholeness and breaks it down into its individual parts.

Even in the human chromosomes that carry the molecular blueprint of life, the genetic research is finding more and more quantum physical aspects that carry more biologically relevant information than the entire molecular genetic code of the cells. In epigenetics, the wave properties of genes are explored, which point to pronounced quantum mechanisms. Through such quantum properties of genes, psychological traumas can be transmitted over several generations without the need for molecular alterations of the genetic code.<sup>iv</sup>

Many of these studies are at the beginning, but it seems increasingly clear that the purely molecular biological perspective that considers the human being as the sum of its parts and interactions, producing consciousness in some unknown way, is at best, a rough approximation that cannot describe the essential characteristics of life.

So it is only logical to assume that the miracle of life can only be described as a holistic quantum process, whereby its outstanding properties can be understood as special quantum properties. This includes, above all, the unity of psychic and physical processes perceived by every human being, the sensible arrangement of life expressions and connections in the context of life, and also the spiritual possibilities that the human organism and its life process contain.

The most significant requirement of quantum theory is to regard man as a whole as a unity of spirit (translation of the German word *Geist*), mind and body. Any detached consideration of a part or partial aspect, such as that of the mind for itself or that of the body as a material object, necessarily loses sight of this wholeness and is inappropriate. If health is defined precisely as the wholeness and holistic self-perception of all processes belonging to life, it becomes clear how unreasonable such a separation is as a basis for medicine.

Divisibility is the material substance, but as such exists only in classical physics. From the perspective of quantum theory, the divisible substance is only the result of the separation between consciousness and what is observed separately, that is to be objectified, and thus only a classical approximation. Behind this lies a reality that is described by leading quantum physicists such as Anton Zeilinger, Werner Heisenberg, Niels Bohr and Carl Friedrich von

Weizsäcker in the last consequence as pure information. Weizsäcker and his colleague Thomas Görnitz<sup>v</sup> have been able to describe both mass and energy equivalently as varieties of pure quantum information units. Just as Albert Einstein described mass as energy, on this basis today one can represent mass and energy as information. From this perspective, body, mind and spirit are already separate perspectives, classical approximations of the underlying unity of the world, in which the wholeness of mental and material processes against a spiritual background forms the basic prerequisite of life and health.

### **Energy and Information Medicine**

Energy and information medicine is the chance to tie in precisely with this most modern of all possible perspectives and to show people a new approach to therapy and healing. Therefore energy- and information-medicine systems always represent an access to the wholeness of human beings. It would then be possible to use the differentiation of the terms energy and information to distinguish two main approaches.

Energy medicine uses specific physical resonances of the human quantum system to communicate with it therapeutically, while informational medicine always addresses humans as a whole with mental-spiritual or spiritual-material resonances. These appear as information patterns, since information links the spiritual and the mental with the material. In both cases, it is important to understand that it is not a specific illness or a traditional medical blood picture that is treated, but the whole person receives support to find his natural balance and holographic wholeness.

The biophysical resonances used by energy medicine are often specific frequencies that are transmitted to the body using a physical energy carrier. For this purpose, electrical currents, electric fields, magnetic fields, colored light, infrared light, laser light and all types of electromagnetic fields are used. Most manufacturers of energy medical systems emphasize that it is not the physical fields themselves that act, but the frequencies modulated on their carriers. In this sense, energy medicine is ultimately not just concerned with the healing effects of energy, but above all with the information transported. In such frequency therapy systems there are again two types.

The first type achieves a kind of specific effect with unique frequencies that trigger biophysical, traceable resonances. For example, from the wavelength of the DNA or the resonances of water molecules specific microwave frequencies can be derived, which can be used with stimulating effect on healing processes in the body. Likewise, very low resonance frequencies of the nanomotors on the cell membrane are known, which cause an increase in the ion transport into the cell and thus can positively influence the ATP production and the pH value.<sup>vi</sup> However, in most cases, these energy-medical applications are in most cases taken as such, it is more a continuation of conventional medical thinking.

The second type of energetic frequency therapy uses the frequencies to communicate with the organism as a whole. The frequencies used here are carriers of meaning and have mostly been found in a spiritual way. In the rarest cases, these are specific effects of individual frequencies, but mostly an archetypal system in which frequency forms the interface between mental backgrounds and physiological processes. If such frequencies are applied in the appropriate context, the patient experiences a resonance phenomenon that manifests itself both physically and mentally. This moment is also known in traditional Chinese medicine, which is why I refer to it as a *chi effect* - it has met with an important resonance of the spiritual-material quantum system and triggered a creative process of change. In these cases, not only the energetic carrier and the transported specific frequency, but also the interaction between the therapist, the patient, the meaning related therapy context and the effective instrument. Only the wholeness of these four components can resonate with the wholeness of the organism. The effective instrument that generates the treatment frequency in this context is therefore not the determining factor, but a link to establish the overall context. It includes language, namely, in this case the frequency that connects the spiritual with the mental and the physical and thus can develop as an archetypal effect.

#### **From energy to information medicine**

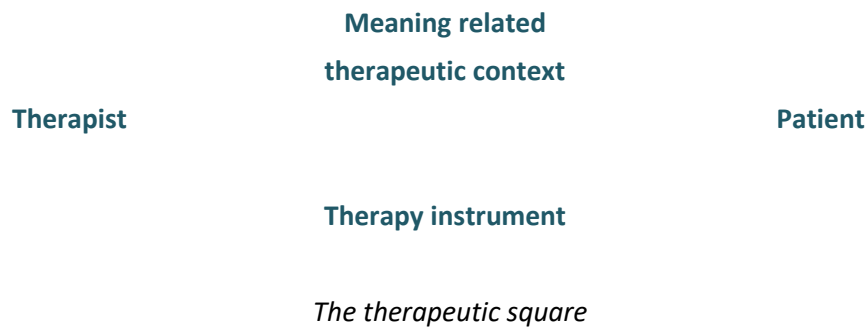
If this instrument is now replaced by a non-energetic carrier, we find the transition from energy to information medicine. This happens, for example, in homeopathy. The effective instrument in this case is small milk sugar spheres or an alcohol solution which is to carry the information of a homeopathic remedy. The energetic carrier, in this case a tiny amount of sugar or alcohol, obviously does not matter much anymore. It only seems to be the information contained therein that works. A systematic study carried out with homeopathic remedies studies suggests, however, that this does not involve the specific effect of information imprinted on the globules. This is what the so-called "Decline -Effect", which was observed in many therapeutic methods of information medicine, namely that the effect achieved in the first trials will be reduced with increasing amount of imprints.<sup>vii</sup> However, the researchers did not conclude that this demonstrates the ineffectiveness of the studied methods, but that they are not local and acausal effects . More likely there are non-local and acausal mechanisms, as one would expect in quantum systems. This would exclude the instrument as a carrier of causally effective local information and bring the effect back to the overall relationship between the patient, therapist, effective instrument and context of meaning. Within the framework of quantum theory such super spatial correlations are called entanglement. It is important to note that the disappearing effect does not disappear completely, but may appear in other unobserved parameters. In the studies considered, for example, other important health parameters that were not considered in the original study design improved.<sup>viii</sup>

This would mean that the carrier of information as a local and natural causally acting substance is not critical and can also be replaced by non-local and non-physical information. This happens, for example, in radionics and a large number of modern systems of information medicine derived from it, which I would therefore rather call the concept of *information field* medicine, in order to distinguish it from the systems of information medicine, which use physical carriers or energies.<sup>ix</sup> The instrument providing the information is of particular importance in these cases. Above all, it serves as a means of communication between the therapist, the patient and the meaning related therapy context in which the respective therapy concept relates to the information field of the patient.

### **The therapeutic square**

If healing processes occur in such a therapeutic setting, they can rarely be traced back to a very specific therapeutic measure. In general, then, it is rather a kind of macroscopic quantum effect, which, like all quantum processes, possesses the properties of non-locality and a/non-causality. It just does not make sense to assume a clear cause-and-effect relationship and see the observed healing as being caused by a purely physical (physical) action. What in this case "works" is the overall context of the quadrilateral "patient-therapist-therapeutic agent-meaningful context," which is constructed analogously to Gotthard Günther's four ontological categories<sup>x</sup> and the four sense elements according to Johannes Heinrichs<sup>xi</sup>. The spiritual context consists here mostly in older or modern healing traditions or systems such as the countless disciplines of homeopathy, Reiki, Spagyrics, healing with herbs, rituals, etc. The postulated macroscopic quantum effect is not a "classical" quantum effect in a strictly physical sense, since these are mostly limited to small and strictly shielded physical systems. It is, rather, a kind of generalized quantum effect as Walach, Römer and Atmanspacher have examined.<sup>xii</sup> This generalized quantum effect, which would certainly not be recognized as such by "classical" quantum physicists, assumes the most general conditions under which a system could exhibit quantum effects. They conclude that, above all, there must be a single fundamental property of the system, namely that there must be at least two non-interchangeable quantities or processes in the system (non-commutativity). In "classical" quantum physics, for example, this would be the location and momentum of a particle, with the result of measuring both parameters depending on the time order of the measurements. However, such non-commutative properties can also be manifested by more complex systems in which humans are included. For example, thinking and feeling are not interchangeable. Whether I first feel and then think produces a different result than if I first think about a perception and then feel it. An even deeper complementarity underlies our perception in its decomposition into a spiritual and a material side. For this reason, the therapeutic square also contains vertically to the

patient-therapist axis the axis between the therapeutic system and its meaning related therapy context.



This complementarity is also relevant to the example of a shamanic healing ceremony, which for example has to be carried out with a special type of bird feather with specific movements. Here it is obviously not the feather with the specific movement alone that works, but in the context of the entire shamanic traditional and ritual context that defines its meaning. The movements of the feather and the shamanic attitude behind it form two complementary poles of an acausal effective context.

Another example of non-commutative elements of reality is consciousness and the unconscious. It is the complex interplay of both sides of the mind that constitutes the behavior and experience of a human being. Many other examples of non-commutative elements could be mentioned. If a system dominated by such non-interchangeable elements, so we can expect there are four kinds of quantum effects observed: non-locality, acausality, entanglement and complementarity.

The non-locality and acausality of spontaneous healing processes, as they often occur in the energy and information-medical context, are an indication of generalized quantum phenomena behind them. Here, the therapeutic square of *patient-therapist-therapy instrument-meaning related therapy context* is described as a whole by the generalized quantum theory. Quantum effects in such a system can be defined analogous to "classical" quantum effects: A quantum effect simultaneously generates a new internal and external order. In the meanwhile the system transitions from a state of superposition of many possibilities to a resonance, or eigenstate. In such a quantum leap the energy and information difference between the two resonance states is released. This release happens initially in a form not yet differentiated in spiritual and material parts. The best term for such nondual material-spiritual energy quantum has the traditional Chinese medicine with the phrase "*chi*". With this *chi effect*, the patient and the therapist move noticeably into a new internal and external order at the same time. For the patient, this means that his attitude and his consciousness about his condition (disease/health) and that of the external order may have undergone a transformation in general towards a more coherent state in his body.



*Taipeh Conference 2017, where the Deep Quantum effect was first introduced in public*

### **The deep quantum effect**

I call this type of quantum effect, which relates to the human being as a whole in its overall context, *the second order quantum observer effect or the deep quantum effect*..<sup>xiii</sup> It consists in the fact that a tension between two complementary elements has become so strong that a spontaneous emergence to a new higher inner and outer order takes place. This emergence is spontaneous (acausal shaped by probabilities) and non-local (which may include people, animals or objects that are located far from each other). Their probability increases with increasing tension of the two poles, but also depends on the system's ability to integrate. If the tension becomes too great without a corresponding ability of integration (coherence), a classical dissociation of the system can be the consequence and no new higher order arises. In the treatment process, it is important to assess tension against integration. The simultaneous appearance of meaningful interrelated events (synchronicity) suggests similarities to the notion of quantum entanglement. Such a deep quantum effect occurs when the involved non-commutative complementary elements can sustain their tension for a while. For example, when thinking and feeling are equally used, as often formulated as goals in psychoanalysis, or when consciousness opens up to the contents of the unconscious without losing its functionality. If two people really meet in depth, they do experience the touch of two non- subjects. The magic of such moments is known to everyone and has the power to create a new order not only inside but also in the outside.

The therapy situation between the therapist and the patient is exactly such an encounter of two non-commutative subjects, who already find the consciousness and the unconscious in a strong state of tension due to the present illness. Now, when the therapeutic system used provides a suitable archetypal field along with his meaning related therapy context in which the encounter between the patient and therapist takes place, then this deep quantum effect can occur. Healing is then possible.

I also call the deep quantum effect a *second-order quantum observer effect* because it is initiated by the second of three basic levels of consciousness found in many traditional consciousness schools. The classical quantum effect is triggered by the first level of the fragmented external consciousness within the framework of an empirical observation. The deep quantum effect occurs acausal spontaneously when the persons involved – i.e. observers - are in contact with the middle or second level of consciousness, which can be described as holotropic inner consciousness.<sup>xiv</sup> At this level of perception, humans perceive themselves as an undivided psychosomatic organism that does not disintegrate into body and psyche. The third level is that of non-dual Unity Consciousness.

Observer I	<i>Fragmented external consciousness</i>	Unconscious individual wave function collapse	Mind / Body	Language, culture and thinking to restore wholeness and meaning
Observer II	<i>Holotropic inner consciousness</i>	Experience of quantum entanglement Psycho-Physical Events	Organism / universe Quantum information Individual and collective unconscious	Myths and archetypes to restore wholeness Healing to restore wholeness
Observer III	<i>Non-dual experience of the unity</i>	monitoring individual wholeness, perceiving cosmic wholeness	Self / God / Tao	wholeness

In his psychophysical theory, the Swiss depth psychologist Remo Roth<sup>xv</sup> develops the concept of the inner quantum leap, which is related to this approach and is initiated from an introverted, body-directed state, which he calls Eros-consciousness.<sup>xvi</sup> The depth quantum effect described in this article additionally refers to the stated context of complementary elements, the resulting second level of consciousness and the ontological square, which is expressed here specifically in the therapeutic square. It also does not need the purely introverted body awareness. In spite of different theoretical approaches, in my opinion, both concepts express the same process that is currently not yet clearly aware.

**Healing in the information field**

The term information field refers here to the overall context of the material, mental and spiritual relationships between the patient and his environment. It is therefore a symbol of wholeness for the patient's world, which is breaking down into its parts. For such complex superimpositions and interactions in physics the term of the field is chosen in contrast to a description by individual objects or connections. The concept of information points to the role of this field, which mediates between the material and mental representation with their spiritual references. Information is the missing Tertium Datur of the Aristotelian doctrine of being. It is neither mind nor matter. But even as purely spiritual, the information cannot be described, because it does not necessarily have to carry meaning in the semantic sense. For such a mediating function, which is accessible to the uniqueness of scientific description only in concrete material, mental or spiritual representations, the Swiss depth psychology C.G. Jung has chosen the term archetype, which was aptly described by his colleague Marie Louise von Franz as an archetypal field.<sup>xvii</sup> Thus, generally systems or methods of information medicine work with archetypal systems that are intended to represent the wholeness of man or in the therapeutic process to stimulate their recovery. Examples of such systems are listed here:

- Colors as archetypical symbols of mental and physiological connections
- Homeopathic or spagyric remedies as mediators between mental and physical situations
- Medicinal plants of different traditions with spiritual, physiological and psychological references
- Crystals, gems and metals in alchemical or traditional association with physical and mental properties
- Frequency systems, which was often determined by divination methods, that map both organs and emotions
- The five elements of traditional Chinese medicine as a representation of physio-psychological processes in humans and in nature
- The three doshas of Ayurveda in relation to Vedic cosmogony as organizing psycho-physical forces
- The twelve zodiac signs representing the wholeness of man in relation to all areas of life

**Therapeutic communication**

In order to fulfill its role as complementary to conventional medicine, which also points the way to a new holistic approach in medicine, the energy and information medicine must put a focus on the quality of therapeutic communication. The new paradigm is to treat the

patient's entire treatment as communication between two people interacting at all levels. In order to be able to treat the patient as a whole, the therapist must also meet him as a whole. It is not only the professional quality of treatment, which is important, but also what and how to communicate, and it is important not only to verbal communication, but also to all other channels of communication, such as body language, looks or touches. The therapist's particular responsibility is to promote the healing process through his communication and avoid so-called nocebos (i.e. anti-placebos). Nocebos are messages that increase the patient's sense of illness and decrease the confidence to heal. Especially in energy and information medicine, therefore, the diagnosis should be completely under the primacy of the healing process. It should only be communicated in a manner that promotes the healing process or can lead to insights or practices that encourage this. The patient should not feel sicker after an energy or information- medical analysis than before. The therapist's confidence and belief in the self-healing powers of nature and mind are ideally transmitted through communication to the patient.<sup>xviii</sup>

The energy and information-medical system, with which the therapy takes place, here becomes part or companion of the therapy and not its determining center. People are always treated as a whole, even if the therapist applies electrodes to their feet and knees to treat a torn tendon or apparently applies frequencies that are designed to control a specific infection. Successful energetic or informative therapy always produces a noticeable effect for the whole person. It understands ideally how physical, mental and spiritual perspectives come together to provide a new perspective on illness and health. When the patient experiences a new vision of himself as a being as a whole and of his purpose in life, the therapist has fulfilled his highest purpose in this patient. It is about making health the most sensible alternative. Because when the patient came to him, the opposite was the case.

### **The author**

Marcus Schmieke, born in 1966 in Oldenburg, studied physics and philosophy in Hanover and Heidelberg. He lived for twelve years as a monk in a Vedic tradition. On this basis, he authored more than 20 books and developed the TimeWaver Information Field Medicine System. 1994 Co-founding of Tattva Viveka. [www.timewaver.de](http://www.timewaver.de)

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