

PHOTOGRAPHY OR TELEPORTATION?

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"I believe that the discoveries in the region of quantum physics increasingly support the point of view of Plato, according to doctrine of which, there is more perfect an immaterial reality. There are evidences of an immaterial, non-physical universe, which is absolutely real, even if it is not available for a clear perception of our senses and scientific instruments. If we consider an out of body experience, traveling shamans, lucid dreaming too, despite the fact that they may not be reproduced in a strictly scientific sense, they indicate the existence of non-material dimensions of reality. "

/ Fred Alan Wolf /.

In the early XX century, **Albert Einstein, Niels Bohr, Werner Heisenberg, Erwin Schrödinger**, and other founders of quantum theory told the world: *"If we can penetrate into the innermost depths of the matter we shall see that matter is converted into energy. If we shall describe it all mathematically, will be seem, that the substance at all is an immaterial! The physical universe is not physical. It arises from the field more thin than the energy itself; out from the field, which more similar to the information or consciousness."*

There are a number of natural facts and events concerned to the different sides of our being, which (in individually) did not found convincing scientific explanation to date. And perhaps only in comparison numerous disparate facts one can find an explanation them. Consider a few of them.

Development of a living organism from a single fertilized egg (zygote) astonishes scientists amazing accuracy, direction and connectedness of all biochemical processes, including spatio-temporal binding and cell differentiation. Add to that the unique ability of organisms to wound healing, tissue, repair limbs and organs ... and quantity of questions arises even more. Genetic paradigm, which is dominant in the worldview of scientists, does not capable in its present form answer them fully. In recent years scientists are seriously considering the idea of wave genome and of the holographic principle of formation and transmitting-receiving information patterns.

However, the consent in this matter is not. Presumably, make themselves felt the ideological differences between creationists and evolutionists which accumulated for centuries.

About the physical nature of this universal connectedness difficult to speak definitely. However, it's hard to argue against the fact that all the qualities mentioned above, quite definitely indicate the presence of a certain, pre-existing information-energy canvas (background) in the basis of every living organism for its development and life: in the form of wave pattern or a morphogenetic field, of the field shell, of the holographic phantom, of the spiritual image, the soul ... or something like that... By adopting this point of view, some things become more clear, for example, how different kinds of failures and malfunctions of such a system may lead to deviations, neoplasms, including cancer ...!?

"Before to the visible universe was formed, was cast form ...".

*/From the book: "Divine Pimandr" **Hermes Mercury Trismegistus**/.*

The second phenomenon about which will be go speech here is still more inexplicable and mystical. So-called psychics (not to be confused with the charlatans) almost unmistakable by the photograph able to distinguish people living and the dead. And one must admit it - is an established fact. The question is how is this possible? What are the physical phenomena and laws allow it? What are the causal or informational connection may exist between the human (as the living matter) and the ordinary photograph of another person (living or dead), i.e. the inorganic matter? Having no explanation this, the scientists do not recognize the very existence of such phenomena. However and to keep silent in such a situation is simply indecent. Lets try to understand.

We will argue thus. For our world are peculiar a "holism" (integrity) and the quantum non-locality. It is a scientific fact. The image of the world surrounding us is formed in our brain from a wide spectrum of electromagnetic waves arriving into it after reflection from objects (or refraction, transformation...). Everything happens, in general terms, as in the process of photography, where the film having a special chemical composition in a result of exposure by light and chemical processing fixes front of the standing wave which was reflected from the object and reached of the film.. The film thus has perceived and has fixed interaction with the electromagnetic wave. But for the modern physicist is clear that in this act involves two parties: the object and the film, and their impact is mutual. So we can safely say that in this act of interaction the film for its part had rendered some adequate reverse effect on the object of shoot. I'll go next, and I'll tell one's view. In the result of this process appears something like quantum entanglement between the particles of the film (photos) and between particles of the object. And

this entanglement persists. Photography not only captures the state of the object and stores information, but also, surprisingly, continues to support the quantum communication with him. For how long? Hard to say. Based on this we assume that a **photography, in some way, is the result of teleportation!?** And if something like that is inherent for the ordinary photography, possibly, all it should be apply to holography, where we are dealing with monochromatic coherent radiation.

Of course, this bond is very specific. On the photography, made in childhood, it is difficult to recognize old man. But what is most surprising, a photography "feels" the changes (perhaps, at the quantum level) occurring with its prototype during some time and fixes the critical threshold changes in the state of the object, such as the death of his ...

From all this we can conclude the nature has endowed the living creatures (and the people- psychics in a bigger degree) with an ability of an animate detector (or a discriminator) to feel the informational-energy changes in the "entangled" quantum systems (that were demonstrated in the experiments of Aspect, Zeilinger and others). This "sixth feeling" by psychics, should be, and used.

Moreover, we can assume that and the objects of the inanimate nature, which ever were "in contact" with the living organisms: clothing, personal items, mirrors, walls ... etc., under certain circumstances are capable to acquire the traces of a quantum entanglement. And with their help the psychics contrive to establish communication with the objects and events separated in space and time. We can also assume that in this event are participating the certain energy-information fields of the environment. In favor of the latter says the fact that psychics are reading information with the photography, no matter with which side they have being looked at the photography: with the front or the back ...

And more. I can not escape the thought that such a fundamental natural phenomenon like quantum non-locality should have balanced output to the macro level and to manifest itself there somehow.

"At the heart of the Vedic tradition lies the assumption about the primordial unity of all life and about the ability of the human brain as one of the finest instruments in the universe - directly feel this unity and to live of it. And if you carefully will study the structure of the human brain, you will realize that it is specially designed to sense the Unified Field, to feel the unity of all life."

/ John Hagelin, Ph.D. /.

Further. There are in the physical world one phenomenon, familiar to us as the home slippers. It accompanies us from the cradle, although in a face "protagonist" no one has ever seen. It arises out of nowhere and disappears knows where, and therefore even the most pragmatic people -

physicists call this phenomena seeming" force. It is about inertia. Inertia discovers himself in all the phenomena of our world: in physical, social, mental..., - in various guises. Only an instant and thought ... do not have inertia.

As it turned out in the 80s of the last century, else one phenomem, previously unknown to science, does not possess by the inertia. This is an phenomenon of the world connectedness and instant communication of material objects, which is called "quantum entanglement », or else as "quantum nonlocality" and this is a quite real phenomem, which theoretically grounded and experimentally confirmed. Phenomenon of an inertialess connectedness of the material objects, separated in space, which does not require for this transfer of the energy and information. All this indicates about an output of scientists on the new, not previously available, the level of knowledge about the organization of matter and of our Weltanschauung .

Thus quantum nonlocality , as it now seems to us, and is, possibly, the manifestation of the properties of the very peculiar level of the organization of matter (perhaps, the very deepest in our perception), of so-called "thin world" (or of the "canvas"), which we are unsuccessfully are looking for around and in all: in the inexplicably reasonable, orderly, harmonious, symmetrical and in an animate..., and without understanding which our knowledge about the rational organization of our World, about the world order, its evolution and purpose do not conform to truth. A speach here can go about some intermediate substance..., or the mediator between the world of the Ideas and between the material world of the physical vacuum, of the material fields, waves ... or something of that sort, which may be organized further in the quasistable, dynamic patterns of particles and interactions ..., from quarks to galaxies ...

You remember, of course, that photography until recently were only black-white, and we did not know that in addition to the intensity of the light incident on the film, it can distinguish and fix the frequency and phase relations at a broad spectrum of waves, as a result of which became possible to produce the excellent color images. And now it is the passed stage. (True, I had never seen the colour X-ray images). The next step - holography.

If proceed from this what the photography (holography) as physic-chemical phenomenon is quite real and is a kind of teleportation of the image of the object to the film, while maintaining surprisingly accurate shape, brightness, contrast, color of the object of shoot, we can assume that in this process out of our attention is slipping something that is available only for single individuals (psychics).

Very likely that a some communication channel (track), built in the process of shooting, saved some time, under certain circumstances. In other words, between the subject and the film arose the quantum communication, which called as "entangled state", and this state is stored. A psychics goes on this track.

Remember, as or anecdote, or as true story about how in the last century the one oddball was selling of an idea of a guaranteed win at roulette at one of the casinos of Baden-Baden. The idea, which was guided this rogue, as it turned out later, was concluded in that the ball, as he thought, when is rolling on the cloth of the gaming table, shall leave trace. For a long time watching for the game he has accumulated the big statistic and with the big probability could to point at the most winning numbers. And, as it turned out, in fact, all in this way and happened. Here's a story ...

The fundamental question is this: may whether had been preserved the connection the photography with the original, ie the quantum communication, and for how long? Here, you may need to take into account the laws of statistics, and integral approaches. The shoot is instantaneous act and it does not involve with fixing certain events extending during in time, so it is difficult to expect seen in the picture the information on the dynamics of the process, although the communication channel (entanglement) at certain frequencies and under the corresponding phase relationships between object of the shoot, photography and the observer may be maintained.

What be surprised? In quantum physics today seriously is discussed the presence of such in a highest degree strange for physical science phenomena as "observer", with its ability to actively intervene in the process of decoherence of quantum states, intractable for understanding. And, surprisingly, few today are against this is objected. In this sense, a psychic, theoretically, does not differ from that of the "observer". And note, he is quite not passive. You have certainly heard intrusive talks about that many of them know how to take off "spoilage", etc. Here, of course, plays an important role self-hypnosis, but as they say, in every joke there is some joke. So maybe it is about same decoherence, i.e. about the active intervention into the quantum process.

"Physicists, to which I belong, keenly are feeling that visible reality - matter, which evolves on the background of space and time - may strongly be different from the one the other reality that lies beyond the visible (if it exists)."

/ Brian Greene /.

And do not you think, ladies and gentlemen, that a feeling akin to quantum nonlocality ie the feeling of the strange unexplainable universal connectedness and interdependence the humanity carries in itself since time immemorial. And his name - the fate! ***"Do not make laugh God, do not tell him about your plans"*** - Is not about it?

In compliance with the quantum-mechanical concept "the entangled particles" are so closely related that they can be considered part of the same physical essence - an effect to one part instantly feels second one. While each of these particles only with a some probability has the certain significance of spin, and when measuring the each particle randomly "chooses" a concrete value of the spin, but on the any "choice" of one particle, the second one immediately makes the same "choice" regardless of the distance between the particles.

If the Big Bang theory is correct, at least in principle - on this indicates of the logic of the physical laws, - this allows tracing the chain of cause and effects up to the moment of the explosion, and it means that all consequences of the explosion (meaning all the realities of the present day) should keep the rudimentary signs and the features of the universal connectedness in varying degrees. Many scientists think so. And the task of science to read them.

If the idea of God's creation is true - even more so: causality and connectedness should be tracked from start to finish.

About it **Brian Greene** writes: *"Some people interpret this as" everything is connected to everything "or" the quantum mechanics binds us all into a single whole." They reason this: in the end, at the moment of the Big Bang all originates from one place, because as we suppose that everything we now are considering as the different places, originally were as the one place. And the same as two photon emitted by a single atom of calcium are appearing from a single "something" in the beginning, then everything should be intertwined with each other quantum mechanically. Is truly astonishing that such ties do exist, and they can be directly detected at considerable distances in a carefully prepared laboratory conditions. The existence of these relationships shows us that space is not what we thought about it before ... "*

Photo (holography), to my mind - there is physico-chemical process of saving the image of object (or of other biophysical parameters) on the remoted carrier (film) by means of quantum teleportation of particles (photons).

Another equally important conclusion which follows from the above, is as follows. **The quantum processes in animate and inanimate matter, as I believe, have fundamental differences, and can vary significantly.** And, perhaps, here passes the line between the living and nonliving matter, at this level reveals itself and the mysterious spirituality of matter - Soul, the presence or absence of which is accompanied by the influence on the integral picture of the quantum entanglement between particles of the object and its image. Something is changing radically and irreversibly in the quantum relations. It does not be surprise for me if soon it turns

out that the phenomenon of twins has something to do with quantum entanglement. And these subtle quantum effects can feel, see psychics on photography: the act of measurement (ie, a glance of a psychic on the photo) detects synchronous biophysical changes at the quantum level. And it amazes the mind!

How to explain it? Are no doubts that nothing in this world not passes without a trace, is leaving at least any even insignificant trace. Otherwise, the probability of any event in the real world (including in the quantum reality) not is by 100% chance, every event has a certain conditionality formed by the prehistory. In this sense, and photography (and even a superpunctual radioactive decay which used in the most accurate clock) follows to its prehistory. The electromagnetic mechanism of the shoot leaves a trace ("rut") between the object and the film, ie, probability of the connection between them becomes no equal to zero and entanglement associated with teleportation saved with some finite probability.

In the hologram, as you know, there is a surprising property: being cut into pieces, each fragment thereof retains information about the object of shoot as a whole. Not hard to figure out that if the hologram divide any further down to the smallest details atoms, we should expect that every single atom will store information about the whole picture of reality, fixed on the hologram formerly. Oh, and then everything is very simple (!?): Being able to read the information from the fragments of reality, you can get an idea about the whole reality. (We can expect that and "at the other end of the infinity" - in the macrocosm, quantum cosmology merges with the cosmic holography).

The psychic - in a sense, "observer", having the ability to carry out reduction (decoherence) of the quantum states. In the moment of the reduction (of the collapse of the superpositions) with the participation of the observer (a psychic) this relationship works, and through it is reflected the status of the original. The psychic can tune self on this wave (a track), forming the channel: the object-picture-psychic. Frequency of the particular result is consistent to the wave of probability of particles. With the death in a living being take place the irreversible changes, is changing the quantum state of the particles of the body, and this event is immediately reflected on the state of its counterpart (on the copy), can disappear the quantum entanglement ... And it looks like death "unravels" anything and everything ...!

(Looking at the photograph of a man, a psychic solves the riddle of the "Schrödinger's cat" in the cell: the cat is both alive and dead at the same time)

Brian Greene: *"In my opinion, a living being, the atoms and molecules of which there are exactly in the same quantum state as mine, is I. Even if the "original" I would stay after the "copying", I (we) would say without hesitation, that and "the copy" and "the original" - it is I self. None of "us" will not have priority over the other. **Thoughts, memory, emotions and judgments have a physical basis in the atomic and molecular characteristics of the human body; an identical quantum state of elementary constituents should entail identical conscious being ...** Over time, we would become to differ from behind the different experience, but I really believe that, since the moment of "copying" will "two I" and not what the "original" is somehow "real me", and "copy" is as "a forgery"... In fact, I even want to be somewhat weakened the requirement. Our physical structure is constantly changing, sometimes slightly, sometimes significantly, but each of us remains as the one and same person. We are subject to constant change: the ice cream Haagen-Dazs fills the bloodstream by a fat and sugar, the magnetic resonance tomograph turns the axes of the spins of nuclei of different atoms of the brain, the heart transplant and liposuction, trillions of atoms are replacing every millionth of a second in the human body..., and yet our personal identity remains unchanged. So even if the teleporting creature exactly not will play my physical condition, it may still be completely indistinguishable from me. To the best of my understanding, it may be by me... **Of course, if you believe that life, and especially the conscious life, includes in addition to the physical organization else the some essence, then your criteria of a successful teleportation will be stricter than mine. This is tricky problem - what is the extent to which our identity as a person is tied to our physical being? - is discussed for years, but have not found an answer that would satisfy everyone. While I personally believe that all identification depends only on physical being, but others do not agree with me, and no one can bring conclusive evidence of verity his standpoint. But regardless of your point of view on the hypothetical problem of teleportation of a living being, scientists have found that thanks to the wonders of quantum mechanics, individual particles may be teleported - and were teleported"***.

Did all sorts of stories about ghosts, ghosts, phantoms that exist in the folklore, do not indicate, albeit very indirectly, on the possible existence in nature the of the phenomena of the incomplete, defective teleportation interrupted for any reason, for example, of the forcible unnatural death?

And else from area of the inexplicable. Situation with so-called UFOs, their sudden appearance and equally sudden disappearance, unobstructed movement in the air, in water, in space at a fantastic rate, by intricate paths, inexplicable from the standpoint of modern science - can be hypothetically explained by the only as a teleportation.

Attempts to describe the real state of the individual macrosystem on the basis of Schrödinger equation were making earlier repeatedly, including and by Schroedinger. His idea looks as quite radical and is as follows. **The wave function ψ is the itself a reality and needs no interpretation Bourne. The atomistic structures, about which ψ -field should was something to speak so far, do not exist at all, at least as the localized objects. Conformably to our macrosystem, this means that a macroscopic body, as such, does not exist at all, in any case does not exist, at least approximately, such things as the position of its center of gravity at a given time.** /A. Einstein, "Elementary considerations on the interpretation of the foundations of quantum mechanics" in 1953, CHT, v. 3, p. 617 - 622. /

So, if we consider the process of creation in the direction from "*the Word ...*", which was "*in the beginning ...*" to reality (I think it only right way) ... through branching and braking of the world process in the direction of the physical and spiritual laws and of Three Great principles: of causation, temporality and rationality, through the involution and subsequent evolution of the material world and then as to Supreme spirituality ... (Plotinus , Hegel ...), should expect that over time a some collective universal intellectual-communication action, like our earthly Internet, which on our eyes rapidly gaining strength, and eventually must acquire an exceptional ability and opportunity for universal communication and universal spiritual communion, the sensation of the material capsule around the sentient beings will gradually will dissolve and finally will disappear , and we will be on 100% the spirit phantoms in the spiritual world ...

Unwittingly creeps seditious idea that humans are created only in order to all his life, private and collective manner develop and customize the software for the drivers and controllers located in the cells of our body (like of any other living organism) and so to programme "iron» (body), which had been inherited with the sole purpose - to gain access to the Divine "Internet", to the information field of the Global Consciousness and to download information from there. And all our private and the common to all mankind successes in evolutionary movement are associated with the ability to absorb, convert, increase and return up the information obtained from the Divine Nature ..

Biological life on Earth develops, evolves in the direction of higher spirituality, so that over time, through the development of a collective consciousness (akin to the Internet) grow and to form a higher spirituality of the humanity. Role of the body - give life to the mind. (Body - hard, mind - soft). Body completely converts into the mind and, ultimately, into a phantom of the Spirit, having no physical shell. Is not this the purpose of all this universe nix?

So, and this is most important (!) If not now (in this I'm not quite sure!), then **at some point of evolution in the future will , the possibly, world in which there will no a movement at all in our usual understanding, but will only complete teleportation, which will controlled by thought.**

*"The movement is no, said bearded sage.
Another said nothing and stood before him walk.
He could not object stronger;
The all praised the convoluted answer.
But, gentlemen, this fun case
Leads me to another example:
Though every day the sun goes before us,
But stubborn Galileo however is rights. "*

/ A.S. Pushkin, 1825. /.

Incidentally, the idea of teleportation - this is perhaps the only one of all the known ideas having although microscopic, but non-zero probability to realize the long-distance space travel during the short instant which is called a life. There is, truth, and another, no less extravagant idea: to borrow a time from the nature, but here, besides fantasies, until is nothing.

But calm down, dear fantasts. Let's imagine a cosmic ship, which can move in space with the superluminal velocity. Its acceleration will not be compatible with his life.

A man will make an intergalactic journey. But first he has to decompose himself into bits, and then teleport them in mind and to compose those bits in the new location.

As far as I know, quantum interference was empirically discovered on molecules containing up to 430 atoms, and the teleportation was realized in an experiment with single photonic qutrits at a distance of 143 km. But it may already be obsolete data.

(Gerlich S, Eibenberger S, Tomandl M, Nimmrichter S, Hornberger K, Fagan PJ, Tuxen J, Mayor M, Arndt M. 2011 Quantum interference of large organic molecules. *Nat. Commun.* **2**, 263. (doi:10.1038/ncomms1263).

Reduction of the wave function can deal with gravity - so supposes Roger Penrose; but I think, that more likely, with a teleportation!?

Besides, the questions which have been raised in this essay may be addressed from the standpoint of the so-called many-worlds quantum theory of Everett-Wheeler-Mensky.

Dear supporters of the theory of "panspermia from space", aim higher. It is unlikely that biomolecules could come to the Earth from space. But it could be the bio-information in the form of modulated electromagnetic waves, bearing phase portrait of whole biological structures - holograms! Thus, it is may be, "the panspermia through information".

In short, the hypothesis which has been outlined here lies in the fact that to try look for and to detect quantum entanglement and teleportation at the macro level. And if you're lucky, also to detect the very distinction between the animate and inanimate matter, which people so vainly are trying to find for a long time. From these positions, we should theoretically and experimentally examine the mechanism of photography and holography, and at the same time, and for decency's sake, get acquainted with the well-known psychics, and, if it is possible, to separate the "wheat from the chaff"... It is possible that there is something there? !

A few words in defense of psychics from those who "on the spirit of" can not tolerate them. And all this may be because these gentlemen do not know that psychics, by and large, consist in the distant cognation with "quantum mechanics". Schrödinger equation allow (and in this is their physical meaning) use information relating to the initial time, for predictions events related to later time. Moreover, the Schrödinger equation in the Born interpretation does not lead to the description of actual states of the individual systems, but only allows you to make the statistical statements about the ensembles of the systems. And here we are talking about the very serious science, I'm sorry, but the more serious science we do not know.

It is no secret that people are very different from each other by abilities in the bill, in the calculations, in the analysis, in anticipation of the events..., and the separate individuals are stand out by simply phenomenal abilities in this regard - history is replete with examples of this. And what if the psychics of that breed!?

So, such outrageous hypothesis has been received.

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P.S. Quantum interference has been demonstrated in diffraction experiments with molecules of increasing size, most recently with molecules containing up to 430 atoms /Gerlich S, Eibenberger S, Tomandl M, Nimmrichter S, Hornberger K, Fagan PJ, Tuxen J, Mayor M, Arndt M. 2011 Quantum interference of large organic molecules. *Nat. Commun.* **2**, 263. (doi:10.1038/ncomms1263)/

. This is not yet large enough to test continuous spontaneous localization models, but it does show that no deviation from quantum predictions is found up to this scale.

The Kochen–Specker theorem has been directly tested in an experiment with single photonic qutrits to show that no non-contextual theory can exist. **Quantum teleportation has been demonstrated over 143km.** This uses entanglement and illustrates how the techniques required for quantum foundations and for quantum

technologies coincide to a remarkable degree. Perhaps this is not surprising: for these very different motivations both require the degree of ‘quantumness’ to be experimentally extended.