

Ultra-slow light - the "interdimensional bridge" between matter and spirit

In the paper [1], all the key phenomena of Absolute Reality are defined, which we arrived at through a combination of scientific knowledge, deep esoteric knowledge and ancient cosmogonies.

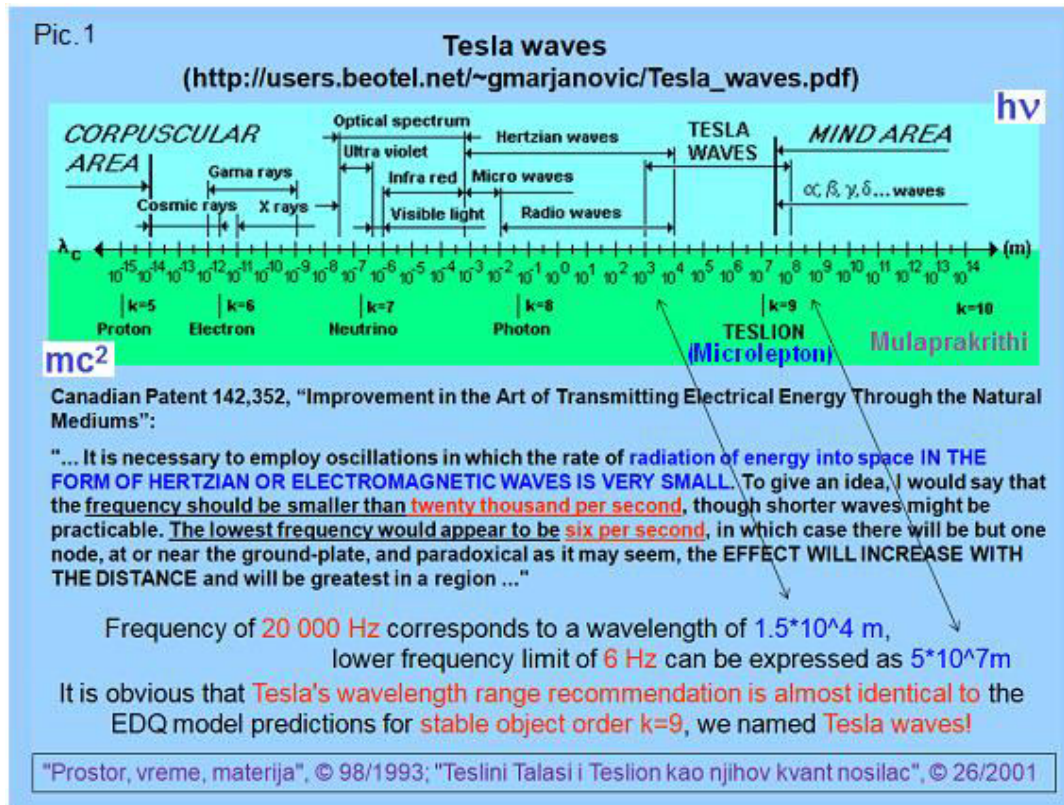
In accordance with the postulates of the QEDM [2], we have defined a precise hierarchy of material-spiritual phenomena and a matrix of their intertwining - which offers us concrete insights into the structure of Reality down to the smallest detail (Fig. 5 in [1]), whereby it encompasses all forms and levels of existence from the material, macro (II quadrant), micro (III quadrant) to the spiritual segment of Reality (IV quadrant), from the lowest to the highest level of consciousness, from the Universe (k-11) to the Supreme Spiritual Absolute - Brahman (k+ 29) which represent a complementary pair, two sides of the "One", in the same way as the physical body of man (k0) and his soul - Jiva (k+16) are the Unity of the material and spiritual aspects of one and the same being manifested in several energy layers, i.e. planes of existence, where each of them has its own structure, characteristics and qualities, described in detail in various theosophical teachings, cosmogonies and philosophical schools.

It is more than interesting that "Man" is positioned at the point of intersection of the evolution-involution line and the abscissa (energy), exactly at the position of the golden mean between the area of black and the ordinate, which indicates the special importance of man as the most perfect material-spiritual phenomenon of the Cosmos and his special, a very important role that the Creator intended for him in his Creation (pic.10 in [1]). And what is most interesting: the meeting of matter and spirit takes place at an energy-spatial position that I have called the hyperdimensional equator and which corresponds to a frequency of 1 hertz - which is the rhythm of the human heart beat... It's really hard to believe that it's just an "unusual coincidence" ...

Thus, the meeting of matter and spirit takes place in the "transitional region" where the smallest nuclear particles and the most subtle forms of the EM field intertwine with the coarsest forms of the ether - Tesla's "gaseous medium", which the intuitive genius Nikola Tesla described as follows:

(quote¹), "The primary substance, thrown into infinitesimal whirls of prodigious velocity, becomes gross matter; the force subsiding, the motion ceases and matter disappears, reverting to the primary substance."

According to the established hierarchy of "Stable objects" of the KGE model, this is the area of the most subtle form of "Tesla waves" and the position of the object at the quantum level k+9 called "Teslion"² in honor of Nikola Tesla, who recommended this very segment of frequencies (fig. 1) for the realization of his idea for wireless energy transmission...

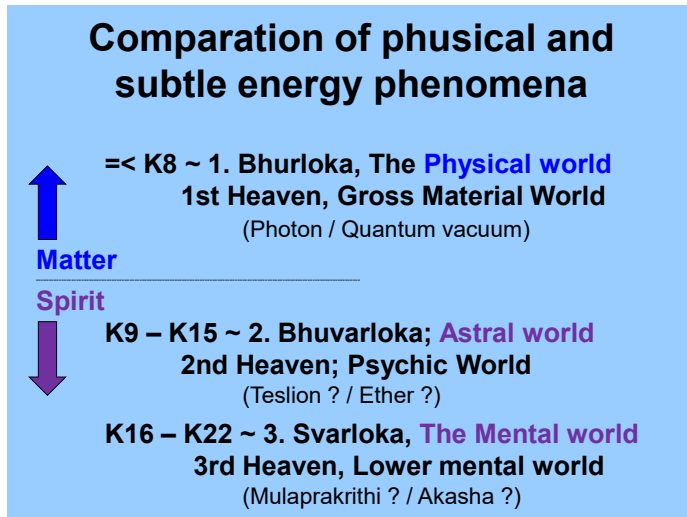


¹ Nikola Tesla, „Man's Greatest Achievement”, New York American, Jul, 6. 1930

² Copyright: Goran Marjanovic, BScE ("Unconventional Physics"), "Prostor, vreme, materija", © 198./1993; "Teslini Talasi i Teslion kao njihov kvant nosilac", © 26./2001. In the terminology of other researchers, a similar phenomenon is called "Microlepton" (Dr. A.F. Okhatrin) ili "Etheron" (Prof. I.L. Popescu), etc.

Bearing in mind that the segment of Reality $k+9 \sim k+15$ is the area of the 2nd Heaven, the psychic world according to the Christian cosmogony or Bhuvārloka, i.e. the astral world according to the Upanishadic cosmogony - there is no doubt that Nikola Tesla is very important in this story about Absolute Reality according to which - quite undoubtedly - he is the true Scientific Prometheus of the 21st century.

The photon is at quantum level $k+8$ - but Tesla said that he works with different ("Non-Hertzian") waves and recommends using frequencies from 20 thousand hertz to 6 hertz. This is exactly the area of the stable object $k+9$ which - considering this Tesla's statement - I named "Teslion" - and the associated area of energy vibrations - "Tesla waves". That was the key motive for me to become more interested in the legacy of Nikola Tesla and his ether technology, i.e. the technology of scalar phenomena.



Tesla waves area, quantum level $k+9$ acc. To QEDM, is of extremely importance because this is the part of Absolute Reality where matter and spirit meet, and where the transition from the physical to the spiritual world that takes place between the first and second heaven according to the Christian cosmogony, that is, between the first and second loka according to the Upanishadic cosmogony.

Therefore, the key phenomenon of the "matter-spirit transition zone" is the stable object $k+9$, whose wave form of manifestation is the area of "Tesla waves", which has seven sub-levels³ and in its most subtle form passes into the form of akasha ($k15 \rightarrow k16$) [3] as the dominant medium of the Lower Mental World (Svarloka or 3rd Heaven)

The analysis performed showed full agreement between the mathematical and graphic interpretation of the Reality described by the QED Model, ancient traditions and folk traditions, which we will illustrate with the following example.

According to [4] *Second Heaven, the Psychic World (Bhuvārloka, Astral World) is a supersensible world that also consists of seven planes, with seven sub-planes each. The lowest three of these seven planes ($k9-k11$) are the so-called "hells", the fourth plane corresponds to the concept of "purgatory" ($k12$), while the highest three planes are the so-called "heavens" ($k13-k15$). When we leave the physical, gross, material body, having undergone a sudden change in the form of existence that we call "death", we first go to one of these planes using our psychic body (the Astral Double).*

In Figure 7, "The Unity of Matter and Spirit", in [1] it is shown that the quantum levels that correspond to the concept of "hell" are mapped to the position that corresponds to the "Moon" on the material side, and those that correspond to the concept of "paradise" are mapped in "The Sun". What is really more than interesting is that in the tradition of our people there is a belief that the souls of bad people are grouped⁴ in the place where we see the moon on our level of existence, on the physical plane, and the souls of good people are grouped in the place where we see the sun.

Given that Absolute Reality implies the real existence of the Astral Double as a "non-corpuscular" form of being in the psychic world, which continues to exist after the death of the physical body, then the question (however controversial and pseudo-scientific it may be) - become quite logical: - is any kind of communication possible by beings from these and higher Planes of existence?

Coincidence somehow get involved in my thoughts like this and I remembered the words of Milos Tarabic⁵:

³ Septenary Principle, https://theosophy.wiki/en/Septenary_Principle; (H. P. Blavatsky wrote: Everything in the metaphysical as in the physical Universe is septenary ...)

⁴ In the "spiritual world" there is only one law - like attracts like ...

⁵ Milos Tarabic (1809-1854) and Mitar Tarabic (1829-1899), uncle and nephew, were two illiterate peasants from the village of Kremna on Mount Tara in Serbia who had visions of the future.

"A man will make a box and in it there will be some "device" with depictions, but he will not be able to talk with me dead, regardless of the fact that this "device" will be close to that other world that is hair to hair on all human heads. With the help of that box with the depictions, man will be able to see what is happening everywhere on this earth's surface. From here, from Kremna, he will be able to see what is going on behind the seven mountains and the seven seas, and for me, servant of God, who visit you so often in my dreams when I am dead, and so close to you, he will neither want to know nor find out⁶..."

The words of Milos Tarabic: " *this "device" will be close to that other world that is hair to hair on all human heads*" - with which he described today's television 200 years ago, reminded me of the close positions of the phenomena k+8 and k+9 - "photon", the quantum carrier of electromagnetic waves and "Teslion", the Ether quantum carrier of scalar waves, where one belong to the physical and the other to the spiritual aspect of the SAME Reality - and that was the first hint of a real, technically feasible, possibility of communication between beings belonging to different planes of existence...

I already knew that our cells communicate through the so-called "slow photons", which is detailed in the work "Light on the trail of the spirit", by Sladjana Marjanovic, B.Sc. [5] - i.e. using "biophotons" which is the term of dr. Fritz Albert Pop, who proved it with his measurements:

(quote, [5]): *"that these "biophoton emissions", as he called them, provide a perfect communication system and transmit information to many cells throughout the organism. The "biophotonic field" stores and searches for information that is then used to control biological processes."*

The term "slow photon" is another word for "slow light", which immediately associated me with the paper "Reduction of the speed of light to 17 m/s in an ultracold atomic gas", Dr.L.Vestergaard Hau [6] published in the journal Nature, number 397 of 18 February 1999, where the experiments performed and the results obtained were presented in detail.

Although it was more than twenty years ago, I remembered our correspondence where I introduced her to the predictions of the QED Model, which - according to a very simple mathematical relationship - gives "expected values" of the speed of photons at certain temperatures with a large accuracy - which was confirmed by her previous measurements ...

So, by cooling the medium ("ultracold atomic gas"), the speed of photon propagation was reduced to 17 m/s, and in later experiments it was even slowed down so much that soon numerous sensational headlines "stopped light" and similar appeared... But - that was scientific, experimental reality.

It occurred to me that if the slow photons with which our cells communicate (biophotons) are slowed down enough, then - according to the "Energy-space" diagram (fig. 8 in [1]) they will "transition" from the k+8 level to the k+9 level whereby this "ultra-slow" photons become "resonant" with Teslions which are quanta of etheric vibration on the "Astral level" ... which, obviously, could be the "technical" basis of "Edison's spirit box" - the unfulfilled dream of "The Wizard of Menlo Park"...

The effect of "slowing down of light" Dr. L. Vestergaard Hau [6] is explained by the irregular shape of the refractive index curve near the absorption line of the given material, and accordingly, the group speed of the laser pulse in that region can exceed the speed of light - which of course does not apply to all phase velocities, but only to a significantly smaller part of the spectrum, whereby the basic form of the pulse remains preserved. In the case of the reduction of the speed of light, which in the mentioned experiment amounts to almost TWENTY MILLION times, very similar effects are used. In the article mentioned above, the explanation is quite detailed, but extremely expert terms are used related to the structure of matter, energy transitions and very complex explanations related to the resonant relationship of the used wavelength and the transmission characteristics of the given material at very low temperatures (on the order of nano Kelvin, $\sim 10^{-9}$ K). The explanations are logical, clear and well-argued. However, understanding them requires a lot of patience and knowledge in the field of matter structure and telecommunications theory, because the formula for calculating the group speed of propagation of a certain electromagnetic wave through a medium is very complicated.

But - the QED Model offered a much simpler solution (a very simple formula) which nevertheless gave excellent results.

⁶ "Kremansko proročanstvo" / Kreman prophecy /- Dr Radovan N. Kazimirović, Silmir Beograd.

⁷ "I have been at work for some time building an apparatus to see if it is possible for personalities which have left this earth to communicate with us": Those are the words of the great inventor Thomas Edison in an interview in the October 1920 issue of *The American Magazine*.

Given that, I calculated the speed of a photon whose "energy density" (quantum level) would correspond to the k+9 phenomenon and to my great surprise I got a value of 330 m/s - which is the speed of sound in air ...

So - although it is about "various" substrates, the analogy of structural mechanisms is complete because the speed of sound, the longitudinal mechanical (volumetric) vibration of air molecules is completely identical to the speed of an "ultra-slow" photon, thus the most subtle form of EM field vibrations (k+8) becomes completely in agreement (aligned, harmonized) with the coarsest form of (volumetric) vibrations of the ether substrate (k+9) ...

Sound is defined as a physical phenomenon that arises as a result of time-varying disturbances of the stationary state of the elastic medium, which manifest as changes in "sound pressure" – which represent the variable component of the total pressure at some point of the elastic medium which is superimposed on the atmospheric or static pressure. Sound pressure is a scalar physical quantity that describes sound volume...

For Nikola Tesla, "light is sound in the ether", that is⁸ *"Light can be nothing else but longitudinal disturbances of the ether in the form of alternating compressions and rarefactions."*

The same structural mechanism manifested in different mediums but identical in terms of "energy content" - expressed as the frequency or speed of vibrations (sound, electromagnetic...) - contraction and expansion of a medium, i.e. flickering that is regularly repeated - vibrates - in a medium where it can be air, water, EM field - but ether also.

As we know - when the frequency of the external force that causes oscillations coincides with the own frequency of the body on which it acts, there is an increase in the intensity of the oscillations, which is a physical phenomenon called resonance. In other words, resonance ("co-flickering") is a mechanism for transferring energy from one system to another, even though they are different media. For example, the voice of an opera singer transmitted through the vibrations of air molecules to the body of glass cups - if the frequency of the sound is equal to the resonant frequency of the glass - can cause the glass to burst into pieces...

So - from the aspect of the structural mechanisms of possible energy transfers - **"ultra-slow light"** becomes fully compatible or "interactive medium" with phenomena from the k+9 area that belong to the "astral world". This indicates the real possibility of communication (transfer of energy, information ...) between worlds of different densities and the "interdimensional bridge" between the material and spiritual aspects of Absolute Reality.

Experimental reality teaches us that optical media such as glass, various resins, crystals and the like reduce the speed of light (change its wavelength - "color" ...) so that "esoteric requisites" such as "crystal balls", "magic mirrors" and the like still get some, technically logical, sense ...

Measurements by Russian scientists⁹ determined that the resonance frequency of the Cheops pyramid is 6.8 Hz, which is the area of the 2nd Heaven (Bhuvanloka) or the Astral World - thus, the pyramids become extremely controversial objects whose importance and role in the general cosmic energy flows is becoming greater and more interesting...

Considering all that has been said, there is a real possibility of the realization of Tesla's visionary ideas¹⁰:

"Human consciousness will push the limits of life and it will be possible to talk with the souls of the dead separated from the body. These findings will further shift our understanding of the difference between life and death." ...

and thereby overcome the possibility that - as it is today - only specially gifted and trained individuals receive information accepted by our "inner" (astral double) senses ...

In short - Tesla's etheric technologies, which are completely in accordance with ancient knowledge, represent *"not only the "Gate of the stars" as Arthur Clarke called "mirrors" that, immersed in water or by observing the moon's reflection in them, allow us to glimpse into an extraordinary reality, into an "inverted universe" " in which - by looking into that "other" and different world, people tried to peer into the future, in order to find out something about their own or other people's fate" ...* - but represent the "Key to the Universe" with which we will - one day, by all accounts - "connect" to the "working wheel of Nature" just as Tesla said in his speech at the American Institute of Electrical Engineers in 1891:

⁸ Tesla Sees Evidence Radio and Light Are Sound, New York Times, Sec. X, P. 9, c. 1, April 8, 1934

⁹ Piramide – interfejs za komunikaciju sa naduzročnom Realnošću, <http://users.beotel.net/~gmarjanovic/Piramide.pdf>

¹⁰ Wireles: the life, work and doctrine of Nikola Tesla, Branimir Jovanović..

“Ere many generations pass, our machinery will be driven by a power obtainable at any point of the universe. This idea is not novel... We find it in the delightful myth of Antaeus, who derives power from the earth; we find it among the subtle speculations of one of your splendid... Throughout space there is energy. Is this energy static or kinetic! If static our hopes are in vain; if kinetic - and this we know it is, for certain - then it is a mere question of time when men will succeed in attaching their machinery to the very wheelwork of nature.”

What's more - the "interdimensional bridge" between matter and spirit makes his idea expressed in words¹¹:

“Nature has stored up in the universe infinite energy. The eternal recipient and transmitter of this infinite energy is the ether.”

much more achievable and point to the REAL possibility of solving the key problem of our civilization - the mastery of clean energy, and we know that energy is the basis of all aspects of life ...

As a final note, I remind that on the Astral level (and the higher ones) the concepts of gravity, inertia, space and time are only mental nouns and that the "interdimensional bridge", (in the evolutionary direction $k+8 \rightarrow k9$) can also be realized in "inverse form" (in the involutive direction, via $k+9$ acceleration) with "superluminal Teslions" ($k+9 \rightarrow k+8$) - which is most likely the structural form of "Torsion fields" whose "texture" eludes modern physics... ☺

In Belgrade, Nov. 14, 2023.

Goran Marjanovic, B.Sc.

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¹¹ Nikola Tesla – Lecture at Columbia College, N.Y., May 20, 1891