

Scalar waves, Prana and Jiva

1. Introduction

According to all my many years of theoretical and practical research - the knowledge of ancient civilizations has greatly exceeded our current knowledge, both in the scientific and in the metaphysical domain, as evidenced by my numerous texts [e.g. 1, 2]. But - certain "God's Chosen Ones" inspired by the perfection of Creation still managed to occasionally, during evolution, convey to us part of the eternal truths and high knowledge from the "Cosmic Library", the Morphogenetic Field¹ or the Akashic Records²...

One of them was Nikola Tesla, undoubtedly the greatest intuitive genius of this civilization, who was certainly one of the first scientists of this civilization who seriously approached the knowledge of ancient peoples³.

The logical agreement, harmony and numerous analogies between the axiomatic principles of Sankhya with the experimentally verified parameters of modern physics, the expected values of the Quantized Energy Density Model [1] and - especially - Nikola Tesla's cosmology, are very reliable arguments that indicate the real possibility of realizing all Tesla's ideas - including the most controversial ones! For me, there is no doubt that they will be realized - but only when (and if) that civilization manages to achieve a sufficiently high level of awareness that will make such events realistic and possible. In any case, it is quite certain that Tesla's technologies will be the basis of all technologies of the 21st century, which, along with a better knowledge of natural energy phenomena, would contribute to a significant improvement in human health and the living conditions of mankind.

But - in order to understand Tesla's original statements based on etheric technologies, which - due to the arrogance and ignorance of official science - have been "pushed" into the domain of esotericism for a whole century, we must - in addition to the material, accept the very real existence of the spiritual aspect of our reality - and this is only possible by "uniting science and spirituality" and bringing their views of the SAME REALITY closer together from opposing aspects. The synthesis of scientific and spiritual knowledge embodied in the Model of Quantized Energy Densities, through observed analogies, symmetry and harmony between the material and spiritual aspects of reality offers us a really beautiful, very simple and logical structure of Absolute Reality, the possibility of a better understanding of individual entities and interacting mechanisms in the structure of the Absolute, which consists of an immense wealth of manifested and unmanifested, material-spiritual phenomena - *that infinite ocean of various frequencies, vibrations, divine super-substance from which all things are made, from which all forms and lives.*

The holographic structure of the fractal type of our Reality implies the existence of analogies so that Tesla's famous sentence: "Considering light as a sound wave..."⁴, with which he begins his calculation of ether parameters really makes sense but also has a realistic physical basis.... The established correlations and hierarchy of "sub-photon phenomena" in this paper significantly clarify the "image" of Absolute Reality, but also indicate the EXTREMELY great importance of Nikola Tesla's legacy of his Ether Technologies.

2. An illustration of Tesla's deep insights into the structure of Reality

- I am convinced that the entire cosmos is united, both materially and spiritually. There is a core in the universe from where we get all our strength, all our inspiration, it attracts us eternally, I feel its power and values that it emits to the entire universe and thus keeps it in harmony. I have not penetrated into the secret of that core, but I know that it exists and when I want to give it some material attribute, then I think it is LIGHT, and when I try to understand it spiritually, then it is BEAUTY and COMPASSION. The one who carries this faith in himself feels strong, his work makes him happy, because he feels himself as one tone in the universal harmony.

(TESLINE DUHOVNE MISTERIJE , Aleksandar Milinković , Esotheria Beograd 2007)

¹British biologist Rupert Sheldrake developed the theory of morphogenetic fields in the 1980s, according to which human consciousness is connected to an invisible collective information field.

²Akashic Records - in the religion of Theosophy The Akashic Records are a collection of all universal events, thoughts, words, emotions and intentions that have ever occurred in the past, present or future in terms of all entities and life forms. Theosophists believe that they are encoded in a non-physical plane of existence known as the mental plane.

³Nikola Tesla - Prometheus of the New age, http://users.beotel.net/~gmarjanovic/NT_PrometheusNewAge.pdf

⁴Akasha - forerunner of Ether - "Superfluid quantum vacuum", http://users.beotel.net/~gmarjanovic/SpecFluid_e.pdf

- All perceptible matter originates from one primary substance, incomprehensibly thin, which fills all space - Akasha or luminiferous ether, which is acted upon by the life-giving Prana or Creative force which in endless cycles brings into existence all things and phenomena.

(Nikola Tesla, „Man's Greatest Achievement“, New York American, Jul, 6. 1930.)

- Nature has stored infinite energy in the universe. The eternal receiver and transmitter of this infinite energy is the ether.

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

- I consider this extremely important, said Mr. Tesla. Light can be nothing but longitudinal disturbances in the ether, involving alternating compressions and rarefactions. In other words, light can be nothing but a sound wave in the ether. ... It's true, said Mr. Tesla, that many scientific minds predicted the theory of the gaseous ether, but it was rejected again and again because in such a medium longitudinal waves would propagate at an infinitely high speed. Lord Kelvin envisioned the so-called contractile ether, which possesses properties that would result in a finite velocity of longitudinal waves...

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

From the mentioned quotes, it is quite clear that Tesla's deep conviction that the structure of this Reality is made up of phenomena from its "sub-photonic" and even "Immaterial" segment (*prana, akasha...*) whose features and properties are significantly different from conventional, then and today's official science. This was certainly the main reason why the ether was thrown out of science, even though all scientific theories until the end of the 19th and the beginning of the 20th century were based on the concepts of the ether⁵.

Nevertheless, Tesla remained consistent with his views until his death and developed the technology of scalar waves. As he described in detail in his diary⁶, in Colorado Springs Tesla abandons the classic version of the high-voltage-high-frequency transformer patented in 1891, whose operation is based on induction and essentially changes the concept into a version of the "Magnifying Transmitter" that uses a "lambda-quarter helicoidal resonator", the so-called "Extra coil" which is based on the principle of "voltage feeding" and achieves extremely high POTENTIALS, SCALAR FIELDS, unlike the previous variant that generates voltage, which is a vector quantity and implies work performed. **Favoring the electromotive force** at the very beginning of his research (Diary, June 5, 1899), and **CHOOSING PURE POTENTIAL** (orig: Electromotive force) **INSTEAD OF VOLTAGE** (orig: voltage, pressure) **was a very important decision by Tesla which, I am absolutely sure, was crucial for his success** and achievement of the efficiency of the machine with which Tesla was satisfied (Diary, measurements on December 14, 1899).

Given that in the previous texts ([3]) we defined the medium of "Tesla's scalar waves" - ether (Stable object k-9) and its elementary quantum - Teslion (Stable object k+9) - due to its extremely attractive properties, in the following section, we will list a few of their most exclusive features and application possibilities.

3. Scalar electromagnetism

"The Bohm-Aharonov Effect, Scalar Interferometry and Soviet Weaponization", T.E. Bearden, April 24, 1984.

(Approved For Release 2003/09/09 : CIA-RDP96-00788R001900680014-4)

<https://www.cia.gov/readingroom/docs/CIA-RDP96-00788R001900680014-4.pdf>

Conclusion: ... the new field of scalar electromagnetism is a reality, as evidenced by Bohm~Aharonov work (1959) and its direct R.G. Chambers (1960) experimental proof.

From Aharonov and Bohm's seminal paper [4] it became crystal clear that **POTENTIALS are in fact real entities and they can directly affect and control charged particle systems of even in the region where all the FIELDS, and hence the forces on the particles, have vanished.**

While this, of course, is completely counter to the conclusions of classical mechanics, from Chambers's direct experimental proof of the predicted Bohm-Aharonov effects [5] it follows inescapably that the Bohm-Aharonov effect shows that the Electric and Magnetic fields can remain zero, and yet the potentials can still cause physical effects .

This showed and proved that POTENTIALS (a scalar phenomenon) are more fundamental than FIELDS (a vector quantity) and are currently the most fundamental phenomenon of scientific reality.

Electrostatic scalar potential, for example, may be regarded as a sort of "locked-in stress energy" of vacuum.

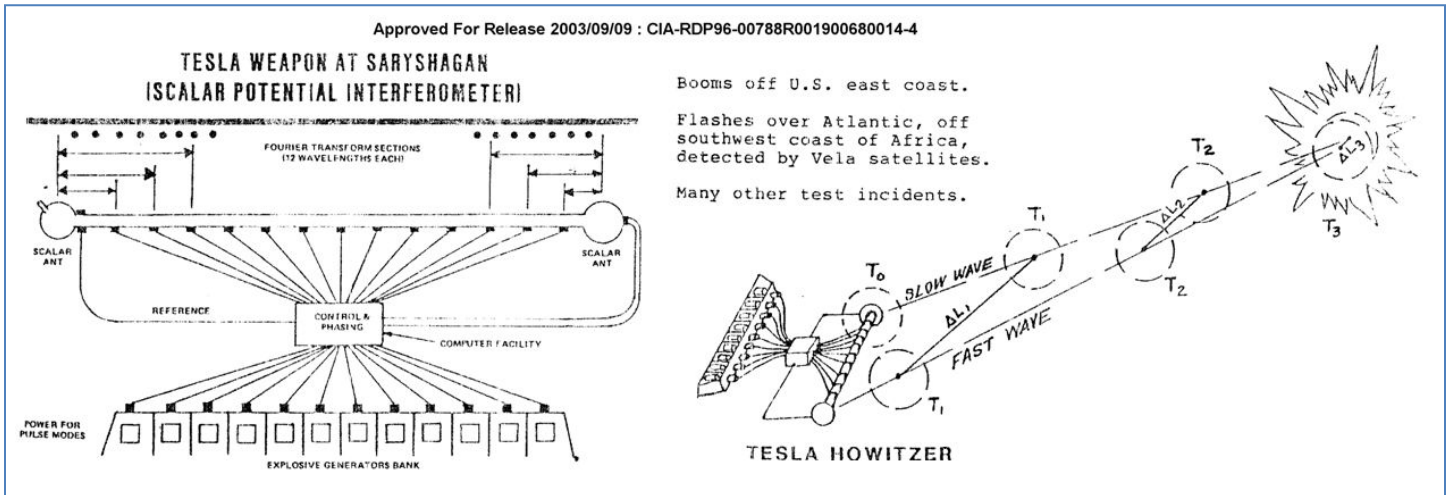
Pure potential stress waves - scalar waves - without ever creating external electric and magnetic fields - are pure waves of spacetime, and they are oscillating curvatures of spacetime itself. They are pure

⁵"About Ether", http://users.beotel.net/~gmarjanovic/O_Etru_e.pdf

⁶Colorado Springs Notes, 1899–1900, Nolit Beograd, Yugoslavia, 1978, str. 76, 07. juli 1899:

waves of compression and rarefaction of the massless charge of spacetime, and are properly represented as longitudinal waves rather than transverse waves. Thus they are **NonHertzian in nature**. Among other things, they **may be used to generate/destroy mass and inertial field directly** ... but that is beyond the scope of this paper...

3a. Some of the characteristics of a Scalar Wave Beam



- ... **Such a beam is totally undetectable by a normal Electro-Magnetic detector;**
- ... **transmitting scalar interferometer can create or extinguish electromagnetic fields at a distance.**
- In other words, it can produce energy in the distant target interference zone or extract energy from it;*
- ... **there is no square-law loss;**
- ... **Relativistic effects such as a change in the rate of flow of time, in the inertia of an object, and in the mass of an object can also be obtained, at least in theory. In theory the speed of light in vacuo can also be changed, and there is already experimental evidence of this effect.** [6].
- ... **one may extract electromagnetic energy from a distant target or region, as well as produce energy at a distance.**
- ... **Again, the energy extracted is not transported through space as normal electromagnetic energy, but as pure scalar potential.**
- ... **That POTENTIAL, which is simply a massless charge, can directly affect (act) on a distant system and can do so even instantaneously.** [7]
- ... **Using three-dimensionally-truncated (shortened in duration or extent) Fourier expansion techniques with multiple transmitted frequencies, the scalar interferometer beams can be made to interfere in specific geometric patterns, such as giant hemispherical shells of glowing energy, quite useful in strategic ABM (G.M: Anti-ballistic missile) defense of a large area (G.M: "Tesla shield").**
- ... **it can also be used to accomplish weather and climate control on a worldwide scale, as well as to earthquakes.**
- ... **Essentially, in the "produce energy" mode, a powerful scalar interferometer can produce a large high-pressure area or "hot spot" at a given distant target area. In "extract energy" mode, a large low pressure area or "cold spot" can be produced at a given distant target area.**

The previous sections (3 and 3a) contain data from the Central Information Agency, approved for the public on September 9, 2003 and the author of the text is Mr. Thomas E. Bearden, retired lieutenant colonel of the US Army, engineer, researcher, theoretical physicist and author of many scientific books and papers, many of which are available online. Although his interpretations of the properties and possibilities of "scalar electromagnetism" are extremely exclusive and quite controversial - it remains a fact that they are very close to Nikola Tesla's ideas and interpretations related to his statements⁷ about his latest projects: "Teleforce & Telegeodynamics"⁸ - which clearly and unequivocally indicates to the possible reasons for the "suppression" of this field from official science and, of course, Tesla's "etheral", non-Hertzian technologies, about which very little is said and known. Nevertheless, scalar phenomena - which are the true essence of Tesla's work after "Colorado Springs" until his death (43 years!) - are mentioned here because of the "energy-structural" logic of

⁷The New York Times on July 11, 1934

⁸Nikola Tesla's Teleforce & Telegeodynamics Proposals, <https://teslaresearch.jimdo.com/books-1/nikola-tesla-s-teleforce-telegeodynamics-proposals-by-leland-anderson/>

the QED Model [1] and the highly associative connection of Tesla's "Non-Hertzian" waves with a sub-photonic structure of Reality described in ancient texts with the terms Ki or Prana, which refer to the life energy that flows through all living beings. What is even more interesting, the QED Model also offers us a rational physical parameters of an even more subtle phenomenon, which is essentially its "less physical", unexpressed, i.e. unmanifested aspect, which is Jiva - "Individual soul" !!!

In short - "Scalar Electromagnetism" is the area of the "Hyperdimensional Equator [3] - the central position of the material-spiritual Creation, the direct link and link between science and spirituality. So - the mechanism of "Quantized energy densities" - where Planck's principle is extended to all aspects of "space-time-energy" allows us to describe the abstract phenomena of spirit and consciousness with the same physical parameters of the material world of official science. ☺

4. Verification of subtle energy phenomena

In the text: "Relation between light, ether and akasha" [3] it was shown that light (electromagnetic field), **ether and akasha are phenomena of different levels of quantization**, i.e. energy density, and therefore phenomena of different characteristics, properties, ways and speed of propagation. Each of them has its own "quanta" - elementary "packets" of energy: photon, teslion and mulaprakriti respectively.

Briefly:

Based on Tesla's recommendations on the use area of frequencies from 6 Hz to 20000 Hz (Canadian Patent No. 142352), QEDM offers us the phenomenon **Stable object k=+9** which I - based on the stated fact and in honor of Nikola Tesla - named "Tesion"⁹, whose mass is $10^{-47} - 10^{-49}$ kg, radius $\sim 5 \cdot 10^{-25}$ m, energy density of the order of 10^{27} g/cm³. Its waveform - analogous to the particle-wave structure of "light", "Tesla waves" - has a Compton wavelength: $\lambda_c = 2 \cdot 10^7$ [m], i.e. a frequency of 14.8 Hz.

Through a mathematical analysis of the density of the ether performed by analogy with the speed of sound waves in air and the relationship between the elasticity and density of air and ether as a medium, **Nikola Tesla obtained the theoretical value of the density of the ether¹⁰:**

$$\rho_{\text{eth, Tesla, teor.}} = 1,9 \cdot 10^{-27} \text{ g/cm}^3$$

which according to QEDM corresponds to the quantum level **k-9** which is the inverse value of the stable object k+9 (Tesion).

According to **Nikola Tesla's experimental measurements**, the density of the "etheric gaseous medium" is:

$$\rho_{\text{eksp, Tesla}} = 2 \cdot 10^{-26} \text{ g/cm}^3$$

which is very close to his theoretical prediction.

Specifically, according to QEDM, Tesla's "gaseous medium", **k=-9**, whose energy density corresponds to the density of galactic clusters, **is an "ETHERAL FLUID" composed of ELEMENTARY QUANTUMS OF ETHER, k=+9 which are the "carrier quanta" of Tesla's waves** - longitudinal, compression-expansion disorders of the etheric fluid (k-9).

Tesla recommendations (Can. Patent No. 142352) => k+9 -> elementary quantum of ether fluid
Tesla measurements of "gaseous medium" (Theor/exper) => k-9 -> Etheric fluid

According to Sankhya teachings [10], the most fundamental phenomenon of our reality is **"Mulaprakrithi" - the root of nature** or the root of substance.

It is the **Primordial-Cosmic Root-Substance**, the main cause of material nature, **the primordial root of matter** that forms the initial homogeneous substrate from which the cosmos was created.

According to the axiomatic principles of Sankhya¹¹, **the mass of "Mulaprakrithi" is: $1.3 \cdot 10^{-51}$ kg, which, according to the postulates of QEDM, corresponds to a stable object:**

$$k = (\log 1,34e-51)/(-5,2) = +9,78 \Rightarrow k = +10$$

Akasha in Sanskrit comes from the root "kas" meaning "to be" with a generic meaning of **"open space, emptiness"**. In classical Sanskrit, this word can express the concept of **"sky; the atmosphere and essential fluid" that pervades the cosmos. So - the term "akasha" perfectly corresponds to the phenomenon at the quantum level k=-10 - which is the "Universe" (QEDM).**

⁹ "Prostor, vreme, materija", © 198./1993; "Teslini Talasi i Teslion kao njihov kvant nosilac", © 26./2001.

¹⁰ "About Ether", http://users.beotel.net/~gmarjanovic/O_Etru_e.pdf

¹¹ <http://users.beotel.net/~gmarjanovic/VedPrTePir.pdf>

Mulaprakrithi, root of matter (sankhya, axiomatic principle) => **k+10 elementary quantum of primordial substance**
Akasha, essential fluid (Sanskrit: open space, emptiness) => **k-10 Subtle, proto-cosmic fluid**

5. Hierarchy of subphoton phenomena:

Based on the above, we can definitely say that **ether (k-9) and akasha (k-10) are not the same phenomenon. Akasha is a phenomenon that is more subtle than ether and represents an even more primary substance or precursor of ether - the prime or proto-element of ether** [3]!

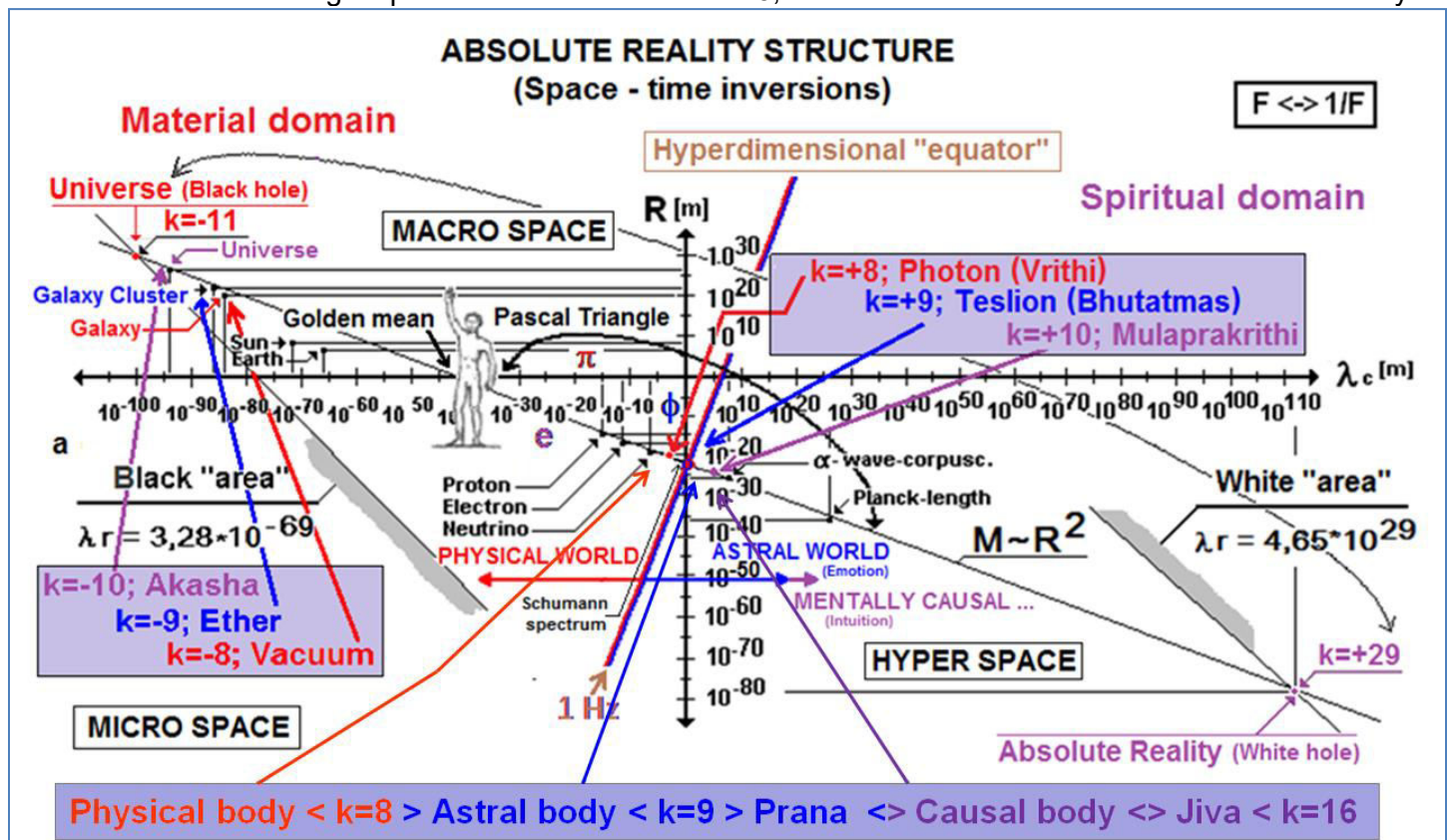
According to the established analogy and hierarchy of "Stable Objects" of QEDM, we can also say that the **ether (k-9) is the protoelement of the electromagnetic field (k-8) as a "physical field"** that is more subtle than it and represents an even more primary substance or protoelement of that phenomenon that - according to scientific interpretations - is not ponderable - what, according to the provisions of QEDM, is not necessary - but - in any case, according to valid scientific postulates, **its quantum carrier is a photon (k+8)!**

The exposed hierarchy points to the some "substrate" phenomenon (k-8) which is the "inverse" form of the photon (k+8) which - in terms of energy density (QEDM) - corresponds to the "Stable Object" "Galaxy" - which imposes the idea of a possible "limitation" of the validity of the key postulate of the Theory of Reality about the constancy of the speed of light only on a "part of Reality" to the space-time domain up to the level of galaxies, while within galactic clusters and intergalactic regions, the speed of electromagnetic waves could have "superluminal speeds... The future will tell...

In any case, the established analogy is valid for the entire scale of material-spiritual phenomena, so that **"Mulaprakrithi" (k+10) can also be said to be the proto-element or forerunner of the "Stable Object k+9", "Teslion", or "Bhutatmas"** according to Dr..A. Klein¹², and which is the quantum carrier of Tesla waves – longitudinal, 3D (volumetric), disturbances in the ether...

Quantum carrier :	K+8, Photon	<<	k+9, (Teslion/Bhutatmas)	<<	k+10, Mulaprakrithi
Fluid:	EM field (k-8)		Ether (k-9)		Akasha (k-10)

Based on the insights presented in sections 4 and 5, we can outline the structure of "Absolute Reality":



According to the postulates of the QED Model [1], the real or virtual values (Louis de Broglie) of the physical parameters of the considered phenomena have the following values depending on the quantum level "k", where $\rho=10^{3k}$, ρ is the energy density expressed as mechanical density in g/cm^3 , k is a real number.

¹²Dr. Adrian Klein, EIDETIC SENTIENCE ONTOLOGY PLATFORM, <https://dradrianklein.wordpress.com/>

The mass of the "Stable object" (real or E/c^2) has the value: $m \sim 10^{-5.2k}$; radius $r \sim m^{0.52}$; wavelength (for "physical vacuum") $\lambda \sim h/mc$ from where frequency follows etc...

Photon, quantum of electromagnetic radiation, **k=+8**,

$\rho = 10^{24} \text{ g/cm}^3$; $m \sim 2.5 \cdot 10^{-42} \text{ kg}$; $r \sim 1.07 \cdot 10^{-21} \text{ m}$; $\lambda \sim 8.79 \cdot 10^{-1} \text{ m}$; $f \sim 3.41 \cdot 10^8 \text{ Hz}$.

Teslion, quantum of Tesla's ether waves, **k=+9**,

$\rho = 10^{27} \text{ g/cm}^3$; $m \sim 1.6 \cdot 10^{-47} \text{ kg}$; $r \sim 1.88 \cdot 10^{-24} \text{ m}$; $\lambda \sim 1.39 \cdot 10^5 \text{ m}$; $f \sim 2.15 \cdot 10^3 \text{ Hz}$.

Mulaprakrithi, elemental quantum of Akasha, **k=+10**,

$\rho = 10^{30} \text{ g/cm}^3$; $m \sim 10^{-52} \text{ kg}$; $r \sim 3.29 \cdot 10^{-27} \text{ m}$; $\lambda \sim 2.21 \cdot 10^{10} \text{ m}$; $f \sim 9.11 \cdot 10^{-2} \text{ Hz}$.

Akasha, the essential, pro-cosmic fluid, **k=-10**,

$\rho = 10^{-30} \text{ g/cm}^3$; $m \sim 10^{52} \text{ kg}$; $r \sim 3.6 \cdot 10^{27} \text{ m}$; $\lambda \sim 2.2 \cdot 10^{-94} \text{ m}$; $f \sim 1.3 \cdot 10^{102} \text{ Hz}$.

Etar, Ether fluid, Tesla's "gaseous medium", **k=-9**,

$\rho = 10^{-27} \text{ g/cm}^3$; $m \sim 6.3 \cdot 10^{46} \text{ kg}$; $r \sim 7.6 \cdot 10^{25} \text{ m}$; $\lambda \sim 3.5 \cdot 10^{-89} \text{ m}$; $f \sim 8.5 \cdot 10^{96} \text{ Hz}$.

Vakum, "empty" space, **k=-8**,

$\rho = 10^{-24} \text{ g/cm}^3$; $m \sim 3.9 \cdot 10^{41} \text{ kg}$; $r \sim 1.3 \cdot 10^{23} \text{ m}$; $\lambda \sim 5.5 \cdot 10^{-84} \text{ m}$; $f \sim 5.4 \cdot 10^{91} \text{ Hz}$.

The values of the physical parameters offered by the QED Model are absolutely unimaginable to us because our mind can understand only what is dimensionally appropriate to the experience in our closest environment. Nevertheless - in the next section we will show that even such values can serve us for new and very interesting insights into the Structure of Reality.

Photon (k+8) and Vacuum (k-8) form the structural energy mechanism of classic "Hertzian waves", i.e. "Transversal-vectorial" electro-magnetic waves, described by the "Simplified version" of Maxwell's theory, which consist of variable electric and magnetic fields that oscillate in mutually normal planes. In a completely analogous way, the "pair" Teslion (k+9) and Ether (k-9), form the structure of **Tesla's "NonHertzian" waves** and Scalar electromagnetism (section 3) based on longitudinal waves of potential, which manifest as alternating compressions and rarefactions of the ether, **are described by the original version of Maxwell's theory¹³, which unfortunately is no longer in use**. The next "pair" of "medium-elemental quantum" are Mulaprakrithi (k+10) and Akasha (k-10) which would also be suitable for the appropriate energy vibrations - of course of the appropriate "subtlety level" (there are not any space-time limitations ...) which is exposed in [9].

Given that modern science describes only the material segment of reality up to the photon level, which is in QEDM at the quantum level k+8, we have to look for such "sub-photon" energy forms in ancient Hindu and/or theosophical texts.

According to theosophical teachings:

"Life is not the result of the work of the organs, nor does it disappear when the body decomposes, but it is the result of a universally permeating principle - the ocean in which the earth floats; which pervades the globe and every being and object on it. It continuously acts on us and around us, forever pulsating towards us and through us. When it occupies the body, it uses it only as a specialized instrument of Prana and Jiva."

William Q. Judge, "The Ocean of Theosophy" p. 37-38

6. Definition and hierarchy of Prana and Jiva¹⁴

Prana (prāṇa) is a Sanskrit word for **"breath"**, **"life force"** or **"vital principle"**. **It permeates reality at all levels** including inanimate objects. According to Hindu teachings, **it originates from the Sun and connects the elements**.

"The sun gives light and life to all who live, east and west, north and south, above and below; it is the prana of the universe."

- Prashna Upanishad

Jiva (jīva) – in Hinduism **Jiva is a living being** or any **entity** imbued with life force. The word itself originates from the Sanskrit verb root *jīv*, which translates as **"to breathe" or "to live"**.

The Bhagavad Gita contains verses that describe *jiva*:

„The soul is unborn and eternal, everlasting and primeval. It is not slain by the slaying of the body."

Bhagavad Gita 2.20, Upanishads

¹³"Nikola Tesla's Ether technology", http://users.beotel.net/~gmarjanovic/EtarTehNT_e.pdf

¹⁴ Wikipedia

So, **the closest translation of the Sanskrit term Jiva would be "immortal living substance" or "individual soul"**.

In the Vedanta philosophy of Hinduism, "**Jiva**" almost **exclusively means "reincarnating soul."** On page 176 of "The Key to Theosophy"¹⁵, H.P. Blavatsky explains that "**Prana**", strictly speaking... **is the Jiva's lower** or rather (in its effects) **more physical**, because manifesting, aspect.

From here directly follows **the analogy** of the phenomenon of **Prana** with the phenomenon **k+9**, called "**Teslion**" (according to QEDM), i.e. "**Bhutatmas**" (according to Vedic terminology¹¹), and the phenomenon of **Jiva** with the phenomenon **k+10** (according to QEDM), i.e. "**Mulaprakrithi**" (according to Sankhya). From the aspect of the structure of these phenomena, their correlation with "rougher" phenomena (of which they are quantum carriers) can be established:

Prana -> correlative with -> Ether and Jiva -> correlative with -> Akasha

According to the analogy with material reality, their relationship would be correlative with the relationship of light and sound, for example - **so these are completely different phenomena**, even though they respect identical laws of wave mechanics. In the same sense, regarding H.P.B statement¹⁵ it can be said that the **causal body develops through the idea: "I am Jiva" and falls of when this idea weakens in intensity or is annihilated in the union of the real "I" - with Brahman**, while **Prana is the vital principle that corresponds to the coarser (more manifested) - astral level** - the following correlations can be established:

Prana -> correlative with -> astral level i Jiva -> correlative with -> causal body

According to the theosophy of H. P. Blavatsky¹⁶, man is an "energetically multi-layered" being, so that **in addition to the physical, there is also his subtler, invisible, astral body (Linga Sharira in Sanskrit) which is the "blueprint", "framework" and "mold" upon and around which the outer shell of our physical body is built.**

Hence, the **physical body is** (only) the "**hardware**" (tool, machine, vehicle) **for the astral body**, and the **astral body is the "vehicle" for Prana**. This **astral body**, the "astral double" of our physical body, **is actually an "energy body" because it is the "vehicle"**¹⁷ **through which Prana (life energy) flows into the physical body.**

By the same principle (hierarchy), **the causal body is the "hardware" (vehicle) for the Jiva - which actually is the Real doer and enjoyer and which animates the "more manifested" (rougher) astral body, which is the even rougher vehicle of the Soul for its final embodiment in the physical body - the roughest form of beings existence.**

From the aspect of QEDM - this hierarchy of levels of "subtlety" or "coarseness", expressed in the Model as levels of quantization, are actually levels of awareness and measures of the "transformation of Purusha in Prakrithi [8] on the path of spirit evolution from the Supreme Spiritual Absolute (k+29) to matter - up to the Universe (k-11), the highest level of materiality and the lowest level of consciousness. Therefore, man - as a physical being - is his lowest aspect, the lowest level of consciousness of his entire being - the universal "I"¹⁸. Here is a simple explanation why our civilization which ignores the spiritual aspects of reality is trapped in materialism...

Finally, we can expose the hierarchy of "sub-photonic" phenomena according to their subtlety, i.e. levels of awareness:

physical body (k =, < 8) -> astral body -> Prana -> causal body -> Jiva (k =, < 16)

The complete structure and origin of the Universe *Sankhya* explains with the "25 tattvas" system. Tatvas are basic concepts for understanding the nature of the absolute, the soul and the universe, which is explained in more detail in [9].

By synthesizing scientific and ancient knowledge, the QED Model includes all phenomena of Reality, both from the material and spiritual aspects of Absolute Reality, and describes them with the same physical parameters, which allows us to "describe" phenomena that cannot be detected by scientific methodology and

¹⁵<https://blavatskytheosophy.com/prana-tiredness-and-sleep/>

¹⁶"Transactions of the Blavatsky Lodge" p. 71

¹⁷Tool, "specialized instrument" - William Q. Judge, "The Ocean of Theosophy", section 5.

¹⁸Atman (ātamaṇa) is a Sanskrit word referring to the universal Self or the self-existent essence of an individual - as opposed to the ego (Ahaṁkāra).

equipment with identical terms and quantities with which we describe material things and phenomena - thus making them closer to our rational experience. We will illustrate this fact in the next section.

7. Physical parameters of the "Jiva" phenomenon according to QEDM settings

The last phenomenon of Reality whose real rest mass is known to science is the (electron's) neutrino, and the last in a series of particle-wave phenomena that science can detect is the photon, which - by definition - does not have a real rest mass but a virtual mass determined according to the relation of L. deBroglie in terms of E/c^2 . According to the postulates of QEDM - in a completely analogous way, we can determine the mass of an absolutely abstract spiritual phenomenon - human soul !

The mass of the neutrino particle, the smallest material phenomenon whose real rest mass is known to science, according to scientific measurements is 0.07 eV or $1.25 \cdot 10^{-37}$ kg, which - according to the settings of the QED Model corresponds to the quantum level $k+7$. If the human body were made of neutrinos, their number would be equal to the ratio of the average mass of a person to the mass of neutrinos: $75/1.25 \cdot 10^{-37} = 6 \cdot 10^{38}$. If we assume that the same body is made up of the same number of entities - but this time made up of "k+9" phenomena whose mass is $1.58 \cdot 10^{-47}$, which belong to the astral level and which are "higher" by 2 quantum levels (which means that they have energy density 10^6 times higher) - the mass of such an "astral body" would have the value: $6 \cdot 10^{38} \cdot 1.58 \cdot 10^{-47} \cdot 10^6 = 0.0094$ kg or 9.4 grams. In other words, an **"astral body", "correlative" to a human, made of entities of the quantum level k+9 - according to the postulates of the KGE Model - would have a weight of ~ 9.4 grams.**

Intrigued by the idea that the human soul has mass and can therefore be measured, Dr. Duncan MacDougall conducted a series of unusual experiments¹⁹ in 1907. Dr. McDougal placed a hospital bed on a system of very sensitive scales and monitored the weight changes of terminally ill patients in their last moments of life. Statistics showed that the mean value of weight reduction after the death of patients was 21 grams, which - according to him, was the result of the soul leaving the body. Let's analyze this from the perspective of QED Model.

The value of **21 grams**, known as **"McDougall's soul weight"**, according to the settings of the Model ($m \sim r^2$), corresponds to a "radius" of $r=0.145$ m. By "mapping" (transformation R->T) from the material to the spiritual aspect of reality, we get the value $t=0.145$ seconds, i.e. the frequency: $f = 1/0.145 = 6.8$ Hz. The fact that by Russian experts this value was determined as the resonance frequency of the Cheops pyramid²⁰ indicates the possibility of its true purpose as well as possible scientific and experimental research in that direction. **For the vibration frequency of the substrate of that segment of Reality of 6.8 Hz, the Model gives the value $k_{\text{soul}}=+9.4$** , which belongs to the astral level and is very close to the value of the assumed "astral body" (k+9) "correlative" to the human in the previous example.

But Hindu and theosophical writings connect the "individual soul", i.e. the *Jiva* - with the causal body and not with the astral body! Specifically, according to the text given in: Bhagavad Gita 2.20, Upanishads²¹:

"If the top of the hair were divided into a hundred parts and each part into another 100 parts, that would be the dimension of the Jiva (G.M. soul)".

The average thickness of human hair is 0.03 millimeters = $3 \cdot 10^{-5}$ m. By dividing by one hundred we get $3 \cdot 10^{-5}/100=3 \cdot 10^{-7}$ m, and then by another division by one hundred: $3 \cdot 10^{-7}/100 = 3 \cdot 10^{-9}$ m. Therefore, the human soul has a "size" of only three millionths of a millimeter - but - "seen" "from our side", in some virtual sense, because the soul is a non-material phenomenon in the scientific sense of the concept of materiality. Nevertheless, this fictitious-virtual value allows us to determine the "corresponding mass" based on it and the postulates of the model: $m \sim r^2 \Rightarrow m \sim 9 \cdot 10^{-18}$ kg, and then by space-time-"transformation" "to the other side" - to the position that realistically belongs to it in the "Space-energy" diagram (picture on page 5). By "mapping", according to the settings of the Model (transformation $f \rightarrow 1/f$), we get the corresponding Quantum level of *Jiva*: $k_{\text{jiva,inv}}=16$ which really corresponds to the "mental world" according to the Upanishadic cosmogony and in QEDM includes the range of quantum levels $k+9$ to $k+16$. **This is also in full accordance with the theosophical teachings of Helena Blavacka, according to which the causal body is the "hardware" for the Jiva.**

Phenomena $k+16$ is characterized by the following values (in "there"):

"mass" $m=6.8 \cdot 10^{-84}$ kg, „radius“ $r=9.3 \cdot 10^{-44}$ m, „wavelength“ $\lambda=3.6 \cdot 10^{41}$ m, frequency $f=8.2 \cdot 10^{-34}$ Hz.

¹⁹DR.MACDOUGALL, THE WEIGHT OF THE SOUL, <http://userhome.brooklyn.cuny.edu/anthro/jbeatty/Scotia/issue78/issue78a.html>

²⁰Pyramids - an interface for communication with the supernatural Reality, http://users.beotel.net/~gmarjanovic/Piramide_e.pdf

²¹Śvetāśvatara Upaniṣad (5.9) /https://en.wikipedia.org/wiki/Shvetashvatara_Upanishad/

Such small values of the "real" "size" of the soul could lead us - with our "worldly" experiences - to the wrong side, because the **REAL energy density of the k+16 phenomenon is 10^{+48} g/cm³**, which is about a thousand billion billion billion billion billion (number with 48 zeros) times higher energy density than water e.g. ☺

So - what we call "McDougall's soul weight" actually is the "energetic manifestation" of the astral form of the human being (k+9.4), while its mental causal form, the *Jiva*, the "individual soul", is much more subtle and belongs to a much higher level of consciousness (k+16).

The above examples illustrate the power of the Model and the possibility of a much better understanding of the spiritual realm and of establishing a correct evolutionary-involutive hierarchy of phenomena from the sub-photon segment of Absolute Reality - completely and absolutely inaccessible to science - neither theoretically nor experimentally.

8. Conclusion

Based on many years of studies and personal insights into the knowledge of ancient peoples (eg [10]), I believe that the knowledge of ancient civilizations greatly exceeds our current scientific knowledge - at least in some aspects.

Nikola Tesla was certainly one of the first scientists of this civilization who seriously came close to their knowledge, and it is quite certain that Tesla's ether technologies - based on scalar phenomenology, together with scientific knowledge of natural energy phenomena - could significantly improve existing technologies and contribute to a significant improvement people's health, and in general - the living conditions of humanity in all aspects (eg [11]).

Specifically - insights presented in section 6: "Definition and Hierarchy of *Prana* and *Jiva*", established correlations and associations between material-spiritual phenomena from the physical (k=<8: photon, neutrino, electron, proton ...) and astral segment of Absolute Reality (k=9, Teslion/Bhutatmas) point to the true justification of T. E. Bearden's ideas about the mechanism of "Scalar electromagnetism (section 3) and the basic characteristics of a beam of scalar waves (section 3a) - waves of scalar potential - the most fundamental phenomenon of Reality²² - which Nikola Tesla favored even a hundred years ago.

Namely, in [12] it was shown that the sharp minded and far-sighted Tesla, the greatest intuitive genius of this civilization, abandons the provenly successful and celebrated version of the VF/HV transformer patented in 1891²³, whose operation is based on induction and introduces a new concept of electromagnetism - his "Non-Hertzian" (ether) technology - building his famous "Magnifying Transmitter" in Colorado Springs with which he reached POTENTIALS of about 12 million volts, while with its improved version known as the "Wardenclyff Tower" he reached over 100 million Volts. Unfortunately, his project has been suspended - but - it's never too late.

The reason is very simple. This work has shown that the mechanisms of scalar technologies are fully consistent with the Vedic knowledge about the structure of the substrate in the astral segment of Reality - which is defined in QEDM as the area of Tesla waves (k+9) - where physical entities are only "hardware" (tool, machine, vehicle) for astral phenomena which - according to the established hierarchy of levels of consciousness (Upanishad & Daskalos cosmogony [9]) or "energy density" (QEDM [1]) are "only" a "vehicle" for *Prana* - "life force" or "vital principle" which "pervades reality at all levels including inanimate objects and which according to Hindu teachings "*originates from the Sun and connects the elements*" (section 6). The preceding message of Hindu teachings (as well as many others) is not naive. Namely - if the "property" of Prana to "connect the elements" - "extends" to the material aspect - there is a direct association with gravity and inertia and the possibility of real realization of the ideas presented in section 3a:

- production of energy in the desired remote zone of interference or absorption of energy from it;
- influence on the speed of time, inertia of the object and its mass;
- weather and climate control on a global scale ...

Whether and when these possibilities will be realized - by all accounts - largely depends on us.

The fact that the "black hole" phenomenology is related to the gravitational interaction, which also has its "inverse form - a "white hole" whose properties are "opposite" and that the identical mechanism can be applied to the electro-magnetic interaction as well as to the "sub-photon phenomenology (k9, k10 ...), which - regarding the idea presented in section 5 (limitation of the light speed is valid only up to the level of galaxies) -

²²Aharonov-Bohm effect, https://en.wikipedia.org/wiki/Aharonov%E2%80%93Bohm_effect

²³This type of transformer contributed significantly to Tesla himself (wireless control, discovery of X-rays, splitting of atoms...) but also to numerous other researchers in various fields of science and technology. Even today, it is widely used around the world in both classic and contemporary semiconductor technology, especially at various events dedicated to his work.

gives us hope for new insights and the realization of a number of currently unachievable ideas - and even the most controversial ones.

If we recall Tesla's words (section 2):

- All perceptible matter originates from one primary substance, incomprehensibly thin, which fills all space - Akasha or luminiferous ether, which is acted upon by the life-giving Prana or Creative force which in endless cycles brings into existence all things and phenomena.

(Nikola Tesla, „Man's Greatest Achievement“, New York American, Jul, 6. 1930.)

especially the inspiring part is: "... acted upon by the life-giving Prana or Creative Force which in endless cycles brings into being all things and phenomena" - because - regarding the correlations established in the section 6:

Prana -> correlative with -> Ether and Prana -> correlative with -> astral level

the term "**Prana or Creative Force**" could perhaps be the "mysterious" "**Fifth Force**" to which - in the sense of "medium-elementary quantum" "pair" ether/Teslion - corresponds "Stable object" $k+9$, "teslion"²⁴, which could be the famous "**fifth element**" - "**Quintessence**"²⁵, necessarily needed to sciences for the explanation of experimental reality²⁶. Given that the QED Model offers us the expected values of the corresponding physical parameters - the hypothetical "Dark Energy" and "Dark Matter" could, one day, be verified as " $k-9 / k+9$ " objects of the QEDM, described in the ancient knowledge and theosophy in much more detail as prana, ether, bhutatmas...

In any case, the synthesis of scientific and ancient knowledge, by uniting science and spirituality, certainly enables us to better understand phenomena that cannot be detected by scientific methodology and equipment, and help us in knowing the world we live in by offering us a much more advanced communication with Absolute Reality and the possibility of great progress in various areas of life including complementary methods of treatment - thus a life truly worthy of the civilization of the 21st century.

In Belgrade, June 28, 2023.

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²⁴ Fizičkim parametri fenomena $k+9$ odgovaraju i sledećim "etitetima": Bhutatmas (Dr. A.Klein, <https://dradrianklein.wordpress.com/> ili odeljak 5), etheron (Ioan-Iovitz Popescu, http://www.iipopescu.com/ether_and_etherons.html), Microlepton (Dr. Anatolij F. Ohatrin, <https://www.gdvplanet.com/anatoly-fedorovich-okhatrin/> itd.

²⁵ "Quintessence" – najnovija kosmološka teorija. Ime dolazi od quinta essentia (peti element – eter). U fizici, kvintesencija je hipotetički oblik tamne energije, tačnije skalarno polje, postulirano kao objašnjenje zapažanja ubrzane brzine širenja univerzuma, postojanje čestice X17 (protoblični x-bozon) itd ...

²⁶ From the Protophobic X Bosons (X17 Particle) to Dark Photon, Dark Matter, WIMP'S, Neutralinos, Photinos, Neutrinos, Axions and Axinos, <https://vixra.org/abs/2102.0089>