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FOLLOWING THE TRACES OF TESLA'S CREATIVITY: FROM TESLA'S RESONANT COIL TO BIORESONANT INTEGRATIVE MEDICINE

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Abstract. Tesla's visions and inventions realized in his controlled altered states of consciousness contributed to his legendary aura as the greatest inventor in the history of electrical engineering at the end of 19th century, and what makes him fascinating is his unusual mental control of his creative visions, with significant quantum-holographic transpersonal creative-educational implications (including limits of Artificial Intelligence). At the beginning of the 20th century, Tesla's previously almost mythical scientific reputation and intuition began to darken, but he has still fascinated contemporaries by self-healing with HF currents, which subsequently led not only to the foundations of today's physical electrotherapy, but also represented inspiration for biomedical research and development of the field of bioresonant medicine, contributing also to the rapid development of nowadays integrative medicine (including transpersonal psychology) – with additional hints for reorientation to ecologically holistic subtle actions for solutions of the global risk society.

Keywords: *Nikola Tesla, Hopfield-Like Neural Networks, Quantum-Holographic Framework, Creativity & Education, Integrative Medicine, Transpersonal Psychology.*

1. INTRODUCTION

Nikola Tesla is undoubtedly the greatest inventor in the history of electrical engineering, and what makes him particularly fascinating is his unusual inner life from early childhood to the beginning of a series of **creative visions** begun in the legendary winter walk in Budapest City Park in 1882 (at the end of almost a year long illness), which then followed him throughout his life and led to the application of hundreds of patents (from electrical engineering & mechanical engineering) [1].

These numerous creative experiences contributed to Tesla's belief in similarity of scientific & artistic ideas, that they came from the same source (a view similar to Plato's, and described in more detail in Patanjali's Yoga Sutras as Ritam Bhara Pragya, the most individual 'state of mind experiencing things as they are', via connection with quantum-holographic primal source of collective consciousness [2], and could help develop future strategies for education & artificial intelligence [3,4].

2. FOLLOWING THE TRACES OF TESLA'S CREATIVITY .

At the end of 19th century, Tesla's discovery & application of a polyphase system of alternating currents, a rotating magnetic field, induction motors & transformers, eventually crowned by the pioneering hydroelectric power plant at Niagara Falls, laid the foundations of today's electric power industry & other industrial revolutions of 20th century (along with Pupin's additional contributions to development of today's telecommunications, with which Tesla had some disputes). Tesla was the first to experimentally demonstrate telemechanical control of a ship using a resonant Tesla coil (so-called Tesla transformer), perfecting which he conducted legendary experiments with attempts at (resonant atmospheric/planetary) wireless transmission of EM HF energy in laboratories in Colorado Springs & Long Island. In those years, Tesla was a huge scientific authority in the sky of experimental physics in USA & Europe, whose opinion was followed by media & great physicists of the time (Helmholtz, Kirchhoff, Hertz, Roentgen, Crooks, Thomson...) with whom Tesla was in constant correspondence & discussions about still unclear nature of light / EM waves, X-rays, cathode rays, electrons, cosmic rays, ball lightning... With his scientific contemporaries, Tesla was also interested in (hydrodynamically analogous) physical nature of the ether, whose theoretical conception was abandoned in modern physics of 20th century with the appearance of Einstein's Special theory of relativity (and the hypothetical ether replaced by physical vacuum as an arena for transmission of EM waves, and latter numerous phenomena in Quantum physics, which Tesla could not accept until the end of his life, even though the famous Einstein considered him the only true scientific genius of his time) [5].

At the beginning of the 20th century, Tesla's previously almost mythical scientific reputation and intuition began to darken, and he was still only occasionally the subject of sensationalist headlines due to his still large media halo. Thus, he fascinated contemporaries with self-healing with HF currents, and on one occasion even the famous yogi Vivekananda (who later said that Tesla was the great avatar of that era, because in his laboratory, by turning on HF currents, he mentally felt the presence of the entire pantheon of Hindu deities).

Those Tesla researches then laid the foundations of today's physical electrotherapy with HF currents, but in the 1930s they also represented the inspiration for Dr. Raymond Rife's research in the field of *bioresonance medicine* [6], which was obstructed at the time & revived only at the end of 20th century through the use of Dr. Hilda Clark's scanning HF devices for the low-voltage *bioresonance destruction* of many pathogenic microorganisms [7].

Dr. Jeffrey Thompson in a series of recommended popular holistic lectures on *neuroacoustic medicine* [8] promotes, among other things, the use of Tesla's HF coil in therapy with stimulated violet radiation, that subcutaneously *stimulates* blood flow, tissue oxygenation, cellular detoxification and lymphatic drainage, with *accelerated* healing and stress relief. This apparatus is not only suitable for use in massage and cosmetology salons, but can also be used to *balance* numerous psychosomatic disorders recommended in *electropuncture* quantum information medical practice.

It should be added that resonant biomolecular excitations are theoretically predicted and experimentally observed in a wide frequency range – which includes a small part of ultraviolet radiation, visible, infrared and microwave radiation, and even lower frequency ranges down to MHz and kHz [9].

Let us point out that modern medicine has long emphasized allopathic-dosed, non-economical, highly medicated medical technologies. In contrast, bioadequate homeopathically dosed economical bioresonant quantum-informational medical technologies, related to the use of such field energy values which appear during the normal functioning of the human organism, have gained increasing importance in the last couple of decades. Thus, modern research on psychosomatic diseases caused by stress indicates the necessity of applying holistic methods, oriented to the treatment of the person as a whole, and not the disease as a symptom of a disorder of that whole, leading in recent decades to the rapid development of integrative medicine [10] & transpersonal psychology [11].

The focus of mentioned holistic methods is the acupuncture system & consciousness – with structure of quantum-holographic Hopfield-like associative neural network [12]. Thus, in the context of all holistic approaches and techniques based on acupuncture & consciousness, their goal would be to bioresonantly excite a psychosomatically disturbed state, thereby enabling its initial memory attractor to be bioresonantly excited & become shallower and wider at the expense of deepening the (energetic-dominant) attractor-healthy state. However, when that process is hindered by transpersonally intertwined blockages in the energy-state space of the acupuncture system / consciousness – then memory attractors of quantum-holographic network connected-with-the field of collective consciousness should be removed [13,14] (by prayer or circular psycho / energy therapies from all relevant meta-positions involved, causing spiritual integration of personality that initiates permanent healing as suggested by experiences of clients in post-hypnotic regressions), cf. **Fig. 1** & **App.**

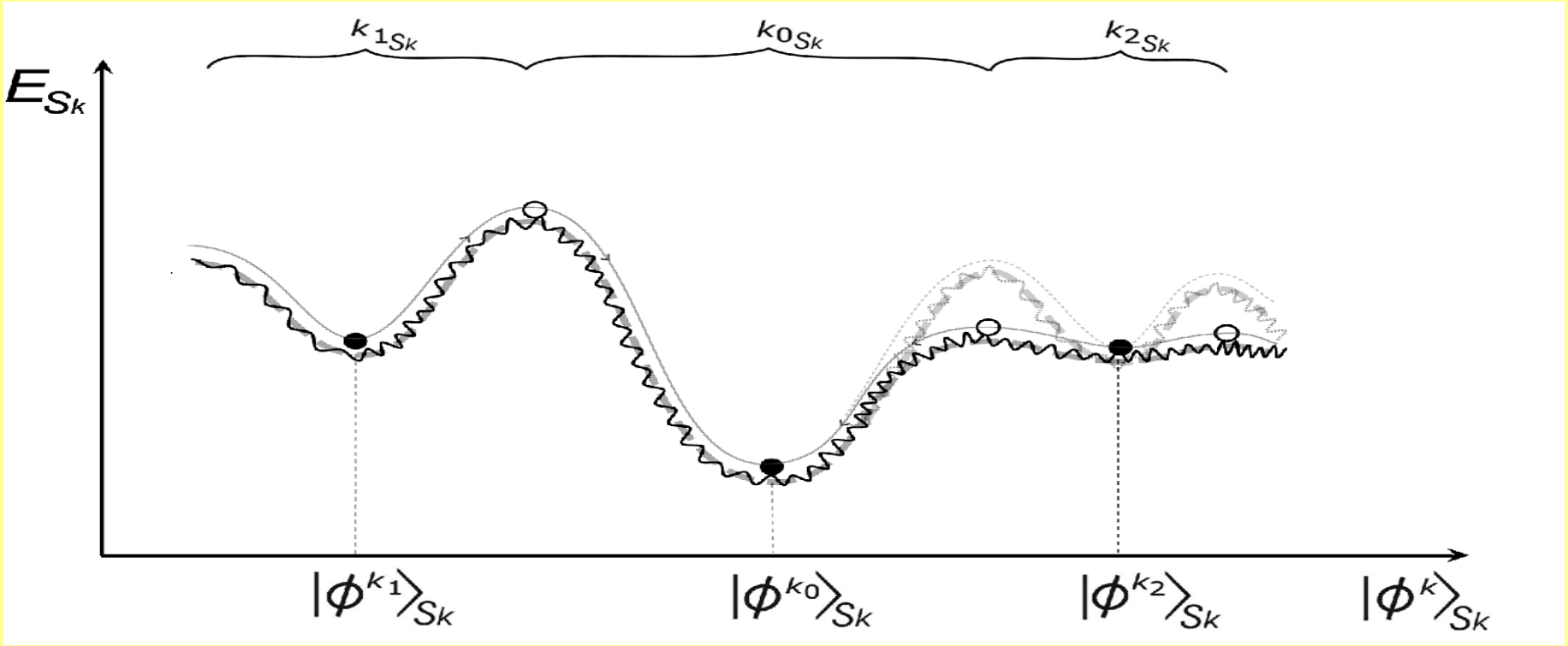


Figure 1. Schematic presentation of the adaptation of memory attractors in the energy-state space of the quantum-holographic Hopfield-like associative neural network of the biological macroscopic open quantum system S_k (local cellular ferment / substrate; local bodily acupuncture system / consciousness; non-local out-of-body consciousness / collective consciousness). This implies the necessity of quantum-informational successive bioresonance balancing of all unwanted lateral memory attractors (as in the picture), which would otherwise cause the development of psychosomatic diseases at the individual level & interpersonal conflicts in this & future generations at the collective level – with hints for reorientation to ecologically holistic subtle actions for solutions of the global risk society [15,16].

2. CONCLUSION

Nikola Tesla is undoubtedly the greatest inventor in the history of electrical engineering, and what makes him particularly fascinating is his unusual mental control of creative visions, with significant quantum-holographic transpersonal creative-educational implications.

Apart of hundreds of patents (from electrical engineering to mechanical engineering), Tesla has fascinated contemporaries by self-healing with his HF currents, which afterwards represented inspiration not only for the foundations of today's physical electrotherapy, but also for biomedical research & development of nowadays established integrative medicine, as described subsequently in our paper.

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11. http://www.atpweb.org; websajt Društva za transpersonalnu psihologiju, koje se od ranih 1970-ih bavi proučavanjem najvišeg ljudskog potencijala, i sa razumevanjem holističkih spiritualnih i transcendentnih stanja svesti (čineći transpersonalnu psihologiju četvrtom silom u psihologiji, pored psihoanalize, biheviorizma, i humanističke psihologije, prema Maslow-u, jednom od njenih osnivača).
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Professor Dejan Raković *graduated Engineering Physics* at the *Faculty of Electrical Engineering* in Belgrade as in 1974, and completed his *M.Sc. thesis* in 1977 in the field of *quantum theory of atomic many-electron correlations* (under supervision of *Prof. Djordje Živanović* and *Prof. Vojislav Radojević*), and his *Ph.D. thesis* in 1982 in the field of *theoretical vibrational spectroscopy of conducting polymers* (under supervision of *Prof. Ivan Božović*), at the *Physics Division* of the *Faculty of Science in Belgrade*. During 1980/81 he completed *postgraduate specialization* in the group of *Academician L.A. Gribov* in Moscow, renown authority in *theoretical spectroscopy & quantum chemistry of molecules, polymers & crystals*.

Professor Raković has a *wide scientific interest*, broadly related to *materials science & biophysics*, covering the fields of *nanomaterials & biomaterials*, *nanotechnology & spectroscopy*, *bioinformatics of biomolecular, epigenetic, psychosomatic, cognitive & electrophysiological functions*. During his career he has been *superviser* in 15 Ph.D. theses and has *published* nearly 300 papers & communications and over 40 books & proceedings, *cited* nearly 2000 times in scientific periodicals & monographs in Google Scholar. He has been also ***referee*** in over 20 scientific journals.

He got his first position at the *Faculty of Electrical Engineering* in Belgrade in 1977 and became full professor in 1997, where he has taught *numerous courses* until his *retirement* in 2016 (in *Materials Science, Biophysics, Biomaterials, Quantum Information*, and doctoral group of courses in *Nanomedicine*). He was *heading Department of Materials Science* in several election periods, undergraduate *Module of Physical Electronics* from 2012 to 2015, postgraduate *Materials Science Curriculum* from 1987 to 2005, and undergraduate *Biomedical & Ecological Engineering Curriculum* from 1996 to 2016.

Since 1995 professor Rakovic is being ***co-founder*** & ***vice-president elect*** of ***Yugoslav Materials Research Society*** (which has organized numerous annual international *YUCOMAT conferences* and *published 10 Proceedings*, and handbook *Biomaterials* (2010, in Serbian)). During the period 1995-1998 he ***headed Brain & Consciousness,*** regional project of ***European Center for Peace and Development (ECPD)*** of the United Nations University for Peace in Belgrade (and co-edited several books: *Consciousness: Scientific Challenge of the 21st Century* (1995); *Proc. ECPD Symposium & Workshop Brain & Consciousness* (1997); *Proc. Consciousness - Religion – Society* (1997, in Serbian)), while from 2009 he ***headed ECPD International School of Quantum-Informational Medicine*** (with (co-)authored textbook *Introduction to Quantum-Informational Medicine, With Basics of Quantum-Holographic Psychosomatics, Acupuncturology and Reflexotherapy* (2009, in Serbian)). In 1999 he ***co-founded*** ***International Anti-Stress Center (IASC)*** in Belgrade, becoming ***president elect*** of the *IASC Governing Board*, with *wide educational holistic anti-stress activities* (with (co-)authored *Anti-Stress Holistic Handbook, with Fundamentals of Acupuncture, Microwave Resonance Therapy, Relaxation Massage, Airoionotherapy, Autogenic Training, & Consciousness* (1999, in Serbian); *Proc. Science-Religion-Society* (2002, in Serbian); *Proc. Religion & Epistemology* (2005, in Serbian); textbook *Fundamentals of Biophysics* (3rd ed. 2008, in Serbian); scientific-popular book *Recollections, Dreams, Thoughts: About Past and Future 1984-2007. On Crossway of Quantum-Holographic & Classically-Reduced Reality* (2008, in Serbian)*;* and monograph *Integrative Biophysics, Quantum Medicine & Quantum-Holographic Informatics: Psychosomatic-Cognitive Implications* (2009)*.* In 2009 he also ***founded*** *his* ***Fund (DRF) for Holistic Research & Ecology of Consciousness***, with *wider promotive holistic activities* (including *Proc. Symp. & Round Table Quantum-Informational Medicine: Acupuncture-Based & Consciousness-Based Holistic Approaches & Techniques* (2011); *Proc. 1st Int. Congress on Psychological Trauma: Prenatal, Perinatal & Postnatal Aspects* (2015); and book *Prenatal Psychology 100 Years: A Jorney in Decoding How Our Prenatal Experience Shapes Who We Become!* (2018), becoming ***Whole-Self co-director*** for Serbia).

THANK YOU
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3. APPENDIX: HOLISTIC IMPLICATIONS OF TESLA'S INVESTIGATIONS

Tesla's visions & discoveries realized in his ***controlled altered states of consciousness*** were recently proposed in my research as manifestations of Tesla's meditative insights ***through macro-quantum correlations of individual & collective consciousness***, with significant quantum-holographic creative-educational & psychosomatic-spiritual implications [13,14].

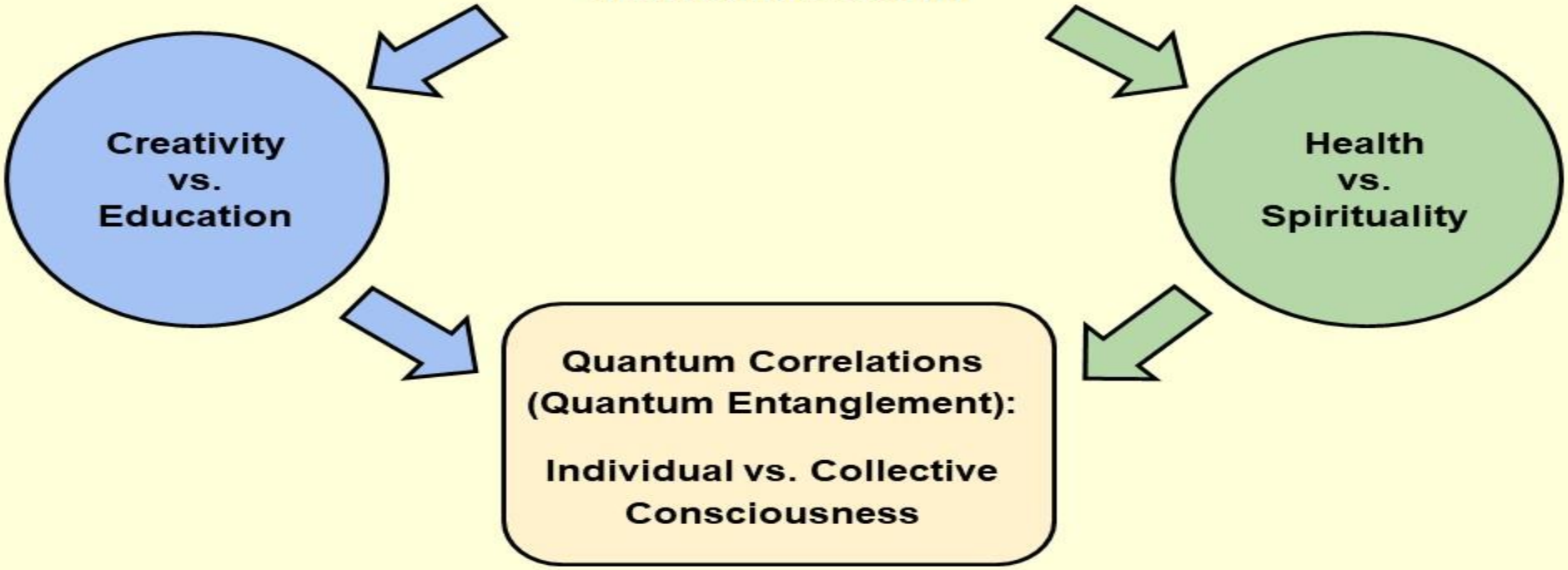
On the one hand, they can provide guidelines for a deeper understanding of the quantum-holographic framework of holistic control of ***creativity & education*** – based on a ***mentally focused increase in the macro-quantum correlations of individual & collective consciousness*** **[cf. Fig. 2(a)].**

On the other hand, they can provide an indirect clue for deeper understanding of our ***extended QHQG theoretical framework for integrative medicine & transpersonal psychology*** by imposing healing boundary conditions – based on methods & techniques for ***decrease of quantum entropy & macro-quantum correlations of acupuncture system / individual consciousness & collective consciousness*** **[cf. 1 & Figs. 2(b)]**, as will be elaborated bellow.

In a broader context, Tesla's overall research can also inspire ***re-thinking of global educational / informational / political goals*** – with a reorientation towards ***holistic subtle actions for solutions of the global risk society***, which was one of Tesla's great unfulfilled ideals in the politically disappointing turbulent 20th century.

Tesla's Inspired Holistic Ideas

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$$|\Phi\rangle_S|\Psi\rangle_E \rightarrow \sum_i c_i|\Phi_i\rangle_S|\Psi_i\rangle_E \xrightarrow{p_j = |c_j|^2 \approx 1} |\Phi_j\rangle_S|\Psi_j\rangle_E$$

Fig. 2(a) (left-hand side of image & formula above) *Symbolic representation of* ***mentally controlled-directed increasing of macro-quantum correlations of interacting individual consciousness (S) & collective consciousness / environment (E) in transpersonally-entangling creative phases*** *(with previous mental increase of focused weight contribution c_j & subsequent (practically non-stochastic) classically-reduced selection of this dominant weight contribution c_j; cf. formula above)* [13,14].

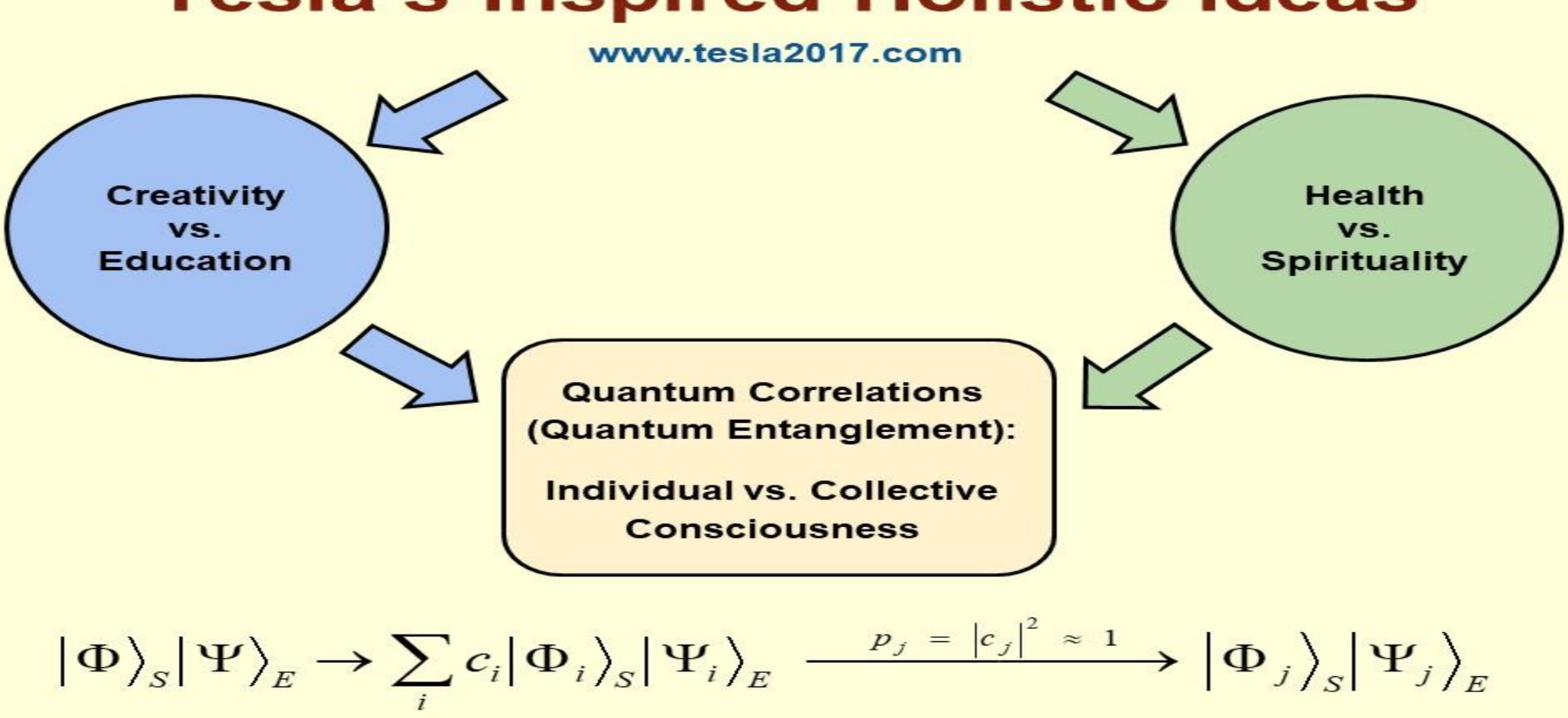


Fig. 2(b) (right-hand side of image & formula above) *Symbolic representation of **mentally controlled-systemic decreasing of macro-quantum correlations of interacting individual consciousness (S) & collective consciousness / environment (E) in transpersonally-disentangling spiritual phases** (with previously systemic mental decreasing of almost all weight contributions c_i & subsequent (practically non-stochastic) classically-reduced selection of remaining dominant weight contribution c_j (related to mentally-embedded address on founder of corresponding mystical tradition); cf. formula above)* [13,14].

So, considering ***psychosomatic state*** *in generally* ***mixed quantum state****, described by* ***density matrix****:*

$$\widehat{\rho}_{S_{kv}}^{(k)} = \sum_i \left| c_{k_i} \right|^2 \left| \phi_v^{(k_i)} \right\rangle_{S_{kv} S_{kv}} \left\langle \phi_v^{(k_i)} \right| \equiv \sum_i p_{k_i} \left| \phi_v^{(k_i)} \right\rangle_{S_{kv} S_{kv}} \left\langle \phi_v^{(k_i)} \right|$$

von Neumann's quantum-mechanical entropy $S = -kTr(\widehat{\rho}_{S_{kv}}^{(k)} \ln \widehat{\rho}_{S_{kv}}^{(k)})$ *reduces to* ***Shannon's classical entropy:*** $S = -k \sum_i p_{k_i} \ln p_{k_i}$.

Then, ***entropy of pure-healthy state*** *of psychosomatic system (described by single* k_0*-th term in superposition, of probability* $p_{k_0} = 1$*),* *would be* $S_{k_0} = 0$ (*as* ***pure quantum state*** $\widehat{\rho}_{S_{kv}}^{(k_0)}$ *provides* ***maximal possible information*** *about quantum psychosomatic system), while* ***entropy of mixed-disordered state*** *of psychosomatic system (described by full above superposition), would be* $S_{\hat{\rho}} > 0$ (*as* ***mixed stochastic state*** $\widehat{\rho}_{S_{kv}}^{(k)}$ *provides* ***uncomplete information*** *about quantum psychosomatic system*) [13,14].

Thus, in this QHQG framework, ***psychosomatic healthy state*** *is the state of* ***minimal entropy****, while* ***psychosomatic disordered state*** *is the state of* ***increased entropy****. So, application of* ***psychosomatic therapies naturally decrease entropy*** (*degradation*) *i.e.* ***increase information*** (*organization*) *of macroscopic quantum psychosomatic system –* ***with spiritual-informational time reversal*** [Let us note that ***quantum entanglement experiments*** with time-reversed EPR also demonstrate that the quantum history observed may be ***retroactively affected*** by observations carried out much later, with possibility of *radical avoiding* any reference to objective reality altogether, as in Copenhagen Interpretation] [14].

Then, in the context of Acupuncture-based & Consciousness-based approaches & techniques, their goal is ***bioresonant excitation of target's disordered*** *palpatory-painful / psychologically-traumatic attractors of acupuncture system / (individual) consciousness* [13,14].

This enables disordered initial attractors to be one-by-one resonantly excited (*similar to* ***annealing procedure*** *in ANNs*), *becoming shallower & wider on account of deepening of (energy-dominating) attractor of healthy quantum state (acupuncture palpatory painless / psychologically non-traumatic). So* ***balanced*** *information is then* ***quantum-holographically projected*** *on lower cellular level, thus* ***improving expression of genes*** *in morphogenesis.*

But, when this process is ***hindered by transpersonal entangled blockages*** *in energy-state space of EM field of acupuncture system / (individual & collective) consciousness – then* ***memory attractors of field-related collective consciousness*** *should be removed as well to* ***dis-entangle energy-informationally*** *all mental addresses included in the problem (****all but one****,* ***related to the founder of the corresponding religion****, serving as a mental address in post-mortem & near death communications), with final goal to achieve* ***permanent healing*** *i.e. spiritual integration of personality.*

Therefore, ***all holistic*** *Acupuncture-based & Consciousness-based approaches & techniques could be treated as* ***quantum-informational therapies****, by imposing* ***new healing boundary conditions*** *in the energy-state space of acupuncture system / (individual & collective) consciousness* [13,14].

According to our extended QHQG theoretical framework, even unconscious ***spontaneous transpersonal communications*** *would give rise to* ***global trans-generational increase of psychosomatic loads at level of quantum-holographic network of collective consciousness*** *– which might represent* ***sin / karmic*** *engine of history.*

Only phenomenon which decreases these loads might be ***all-forgiving prayer to ourselves & others*** *(relatives, enemies, decised) – probably via* ***simultaneously vacuum-excited spiritually-purifying new macro-quantum portions of vital energy*** (*similarly to spiritually-excited & mentally-channeled Ayurvedic, Qigong, Reiki & modern experiences of local & transpersonal healings*) *in prayer-related persons – as* ***(decoherence-like) quantum-gravitational non-stationary in-deterministic interventions*** *in otherwise unitary intrinsic quantum-holographic evolution of collective consciousness!*

This might leave ***most room for free will & influence on future preferences*** *– making role of every person indispensable due to influence & concern for collective mental environment!*

All this indicates ***full significance of holistic education & behavior*** *– suggesting necessity of* ***redefining global educational / informational / political goals,*** *with shift towards* ***holistic gentle actions*** *for solutions of global risk society – thus* ***helping future strategies*** *to achieve complete physical, mental & social well-being on* ***near & large scales*** [13,14].

It is worth noting that our macroscopic quantum-holographic informational framework is also supported by Susskind's fundamental ***holographic principle*** *according to which any (3D) physical system is isomorphic to holographic information embedded on its (2D) surface, which implies that full quantum-informational content of our 3D body could be* ***quantum-holographically contained in our 2D surface layer – bearing resemblance to traditional psychosomatic concepts*** *of energy-informational acupuncture system / (individual) consciousness.*

On these lines, ***holistic clue for healing boundary conditions*** *in energy-state space of* ***acupuncture system / (individual & collective) consciousness*** *should be taken into account, with significant psychosomatic implications on necessity of* ***three front lines of psychosomatic integrative medicine****:* ***(i) collective consciousness, (ii) acupuncture system / individual consciousness,*** *and* ***(iii) somatic level*** [13,14]*.*

It should be pointed out that ***necessary activities in second & third levels****, but* ***neglect of first level****, would result in* ***further transpersonal transfer*** *of memory attractors on the level of individual & collective consciousness in this & future generations. So, this implies* ***necessity to focus on origins*** *of many psychosomatic problems on underlying* ***prenatal trans-generational levels****.*

In particular, let us mention ***Hawaiian ho'oponopono tradition*** (*with remarkable reprogramming of life situations by contextual repenting & forgiving ourselves*); *or* ***South American ayahuaska tradition*** *&* ***Nigerian Abiku tradition*** (*with fascinating spiritual diagnoses & extensions of predestined-short-life programs*); *or fascinating* ***world bestseller of Anita Moorjani*** (*on spiritual changing her life program with return from clinical death & after few weeks spontaneous healing of terminal phase of cancer); or* ***spiritual teaching of Bruno Groening*** (*with incredible healing channel remained open after his death*, *in optimizing both individual & collective life programs*); or ***Christian (hesychastic) Mysticism*** with *miraculous healing & optimizing life programs.* This greatly contributes to our understanding that ***even most difficult psychosomatic disorders have their roots in the energy-information blockages, and that healing begins by removing them*** – ***first lovingly to ourselves, accepting ourselves & forgiving ourselves***, which is then manifested by ***love to others & acceptance of others*** (e.g. by spiritually dis-entangling / un-binding repentant-forgiving prayer [15]!

Thus civilization, via ***synthesis*** *of scientific knowledge in the field of consciousness & millennia experiences of the spiritual traditions*, could contribute that new millennium would be characterized by *wisdom*. Decisive role in this process could be played by all ***religious communities***, ***cultivating a true spiritual moral & absolute inter-personal, inter-ethnic & inter-religious tolerance*****,** as a measure of individual behavior from the ***perspective of death***, i.e. amount of generated & non-reprogrammed psychosomatic conflicts until death, which determines the ***spiritual evolution*** *of the soul of the deceased as well as the* ***preferences*** *of the individual and / or collective future of the descendants* – that can be ***significantly altered only via collective prayer*** *for our neighbors & enemies*, and consequently ***individual & collective consciousness reprogramming*** [13,14].