

On Extended Quantum-Holographic Framework for Control of Macro-Quantum Correlations of Individual and Collective Consciousness

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Abstract — Tesla’s visions and inventions realized in his controlled altered states of consciousness, are proposed to be manifestations of his meditation insights and macro-quantum correlations of individual and collective consciousness, with significant quantum-holographic creative-educational and psychosomatic-spiritual implications. In wider context, this could help improve future holistic strategies for both education and for transpersonal psychology and integrative medicine.

Keywords — Tesla, extended Hopfield-like framework, macro-quantum correlations of individual and collective consciousness, creativity and educations, psychosomatics and spirituality.

I. INTRODUCTION

Nikola Tesla is undoubtedly the greatest inventor in the history of electrical engineering, and what makes him especially fascinating was his unusual mental control of creative visions. Regarding Tesla’s extraordinary creative experiences in his altered states of consciousness (categorized in his time as nonphysical phenomena) - Tesla’s conviction "when we start to study nonphysical phenomena, we will progress more in ten years than we have for centuries" then becomes clearer. In this context, it seems that Tesla's legacy for the new millennium is introspective evidence of his transpersonal creative communications [1], with fascinating possibility of his meditative eidetic control and increase of macro-quantum correlations with the quantum-holographic primal source of collective consciousness (cf. Fig. 1(a)). It could serve as an extraordinary case study for understanding biophysical basis of both transpersonal psychology and control of creative processes, based on subtle interplay of normal and transitional and altered states of consciousness in meditation and sleep, and may help in developing future strategies for education [2-4].

I also recommend the book *Holographic Universe* [5] to readers interested in the phenomenology of various states of consciousness, with numerous well-documented mysterious phenomena in altered states of consciousness. In this book, Michael Talbot relies heavily on the works of famous quantum physicist David Bohm and neurophysiologist Karl Pribram, who point out that the Universe could be a giant quantum hologram, the type of mind construct at the boundary of a subject / object - by relativizing the question of whether objective reality exists or constantly fluctuates between implicate and explicate order?

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The book suggests that many well documented mysterious phenomena, like synchronicity and precognition, extrasensory perceptions and out-of-body experiences, psychokinesis and teleportations, miraculous healing and mystical religious experiences - could be explained within the (still controversial) holographic paradigm. The reading and presentation of this book brought me great personal satisfaction, for my own research of quantum basis of consciousness and holistic psychosomatics and their implications [5-11] (with numerous empirical / rational assertions, I recognized associatively by reading a book).

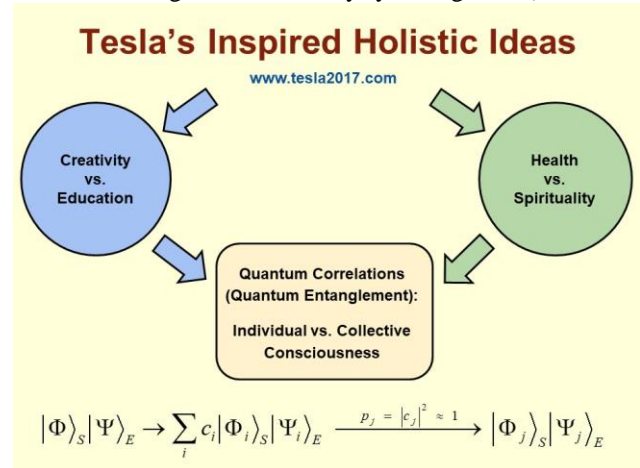


Fig. 1. (a) Symbolic representation of *mentally controlled-directed increasing* of macro-quantum correlations of individual and collective consciousness in *transpersonally-entangling creative phases* (left-hand side of the image and formula above, with previous mental increase of the focused weight contribution c_j and subsequent (practically non-stochastic) classically-reduced selection of this dominant weight contribution c_j) [3,4]; and (b) Symbolic representation of *mentally controlled-systemic decreasing* of macro-quantum correlations of individual and collective consciousness in *transpersonally-disentangling spiritual phases* (right-hand side of the image and formula above, with previously systemic mental decreasing of almost all weight contributions c_i and subsequent (practically non-stochastic) classically-reduced selection of the remaining dominant weight contribution c_j (related to mentally-embedded address on the founder of the corresponding mystical tradition) [3,4].

These phenomenological insights could also serve as an additional confirmation of our extended *quantum-holographic / quantum-gravitational (QHQG)* theoretical framework of quantum-informational transpersonal psychosomatics, based on the systemic reduction of quantum entropy and macro-quantum correlations between the acupuncture system / individual consciousness and collective consciousness (cf. Fig. 1(b)), which could help develop future strategies for integrative medicine and transpersonal psychology; and in a wider context, these insights could provide inspiration

for rethinking global educational / informative / political goals - with a reorientation to holistic mild actions for global solutions to the world's risk society [3,4].

The paper is organized as follows. Section I introduces the motivation for studying introspective evidence of Tesla's transpersonal creative communications in his meditative altered states of consciousness. Section II considers implications of creatively-entangling quantum correlations of individual and collective consciousness, while Section III considers implications of the spiritually-disentangling quantum correlations of individual and collective consciousness. Section IV concludes on educational significance of this research for quantum-informational integrative medicine, transpersonal psychology and control of creative processes. Appendix provides additional information on the extended QHQG informatics.

II. CREATIVELY-ENTANGLING QUANTUM CORRELATIONS OF INDIVIDUAL AND COLLECTIVE CONSCIOUSNESS

On the one hand, Tesla's introspective analyses may provide a direct clue for deeper understanding of our *extended QHQG theoretical framework for holistic control of creativity and education - based on meditation insights and carefully guided and increased macro-quantum correlations of individual and collective consciousness* [3,4], as will be elaborated below.

During his stay in Budapest (1881/1882), in looking for employment after leaving his engineering studies, Tesla was beset by his need to detach the commutator from the machine [1]: *"I started by first picturing in my mind a direct current machine, running it and following the changing flow"...* His incessant thinking produced a complete nervous breakdown... The breakdown quickened and sharpened his perspective a hundredfold... His pulse fluctuated from very low to 260 beats per minute... His physical state had completely deteriorated... [By his incessant meditative efforts Tesla presumably had *awaken his kundalini vital energy* in the base of spine [2-6], which abruptly opened his *doors of perception*, usually causing permanent psychosis in persons mentally unpurified previously, but Tesla succeeded to recover owing to his *pure soul*, and subsequently a series of his incredible *meditative inventions* began (in state described in Patanjali's Yoga Sutras as *Ritam Bhara Pragya, 'when mind perceives things as they are'* [6]) (Author's note)... After nearly a year of unsuccessful treatment, during repeating walks with his colleague Szigeti in the City park, Varosliget, he was regaining his strength. On one occasion, during a walk in the park toward the end of February, Tesla looked at the setting sun, and began to recite the glorious passage from Goethe's Faust [...] *"As I uttered these words, the idea came like a flash of lightning... and in an instant the truth was revealed. I drew with a stick on the sand the diagram of my motor... secrets of nature which... I had wrested from her against all odds and at the peril of my existence... See, how smoothly it runs. No commutator, no brushes, no sparking. As the current in one coil decays, in the adjacent coil it increases, coil after coil, creating new magnetic rotating fields and pushing the shaft continually... In less than two months, I evolved virtually all the types of motors and modifications of the system now identified with my name... it was a mental state of happiness as complete as I have ever known in life. Ideas came in an uninterrupted stream and the only difficulty I had was to hold them fast."*

Tesla was absolutely convinced in similarity of scientific and artistic ideas [1]: *"They are coming from the same source."* This viewpoint is similar to Plato's, but Tesla did not come to that speculating philosophically, as he had experienced the world of ideas from the boyhood: *"When a word was spoken to me the image of the object it designated would present itself vividly to my vision and sometimes I was quite unable to distinguish whether what I saw was tangible or not... Sometimes it would remain fixed in space though I pushed my hand through it..."* [Quantum hologram [2-4], in Tesla's quantum-coherent stationary *altered states of consciousness?* (Author's note)]... *Then, instinctively, I commenced making excursions beyond the limits of the small world of which I had knowledge and saw new scenes. These were at first very blurred and indistinct, and would flit away when I tried to concentrate my attention upon them, but, by and by, I succeeded in fixing them; they gained in strength and distinctness and finally assumed the concreteness of real things. I soon discovered that my best comfort was attained if I simply went on in my vision farther and farther, getting new impressions all the time, and so began to travel - of course in my mind. Every night (and sometimes during the day) when alone, I would start my journeys... [Astral journeys [2-6], in Tesla's quantum-entangled non-stationary *transitional states of consciousness?* (Author's note)]... I have been practicing this until my seventeens, when my thoughts turned to inventions seriously."*

In the context of *Tesla's extraordinary creative insights and inventions* (directly visualized in his consciousness with details of functioning of the devices, without any application of Maxwell's electromagnetics!), it is interesting to consider the *possibility of controlling creative processes* within our extended QHQG theoretical framework [2-4,7].

They predict *transpersonal properties* of psyche in short-lasting *quantum-entangled transitional states of consciousness* (with subsequent classically-reduced stationary extrasensory perception of the previously focused mentally-addressed out-of-body complementary environment, cf. Fig. 1(a) and Appendix as well, which may also be Jung's archetype of the *problem-with-solution at the level of quantum-holographic collective consciousness*, which raises associations on *Tesla's mental inventions* and *Plato's world of ideas* too).

After returning of the displaced consciousness upon the body, in order that *transpersonally acquired information ascends to the level of normally conscious state*, it is necessary to *overcome two filters* [2-4,7]: *acupuncture system / nervous system threshold filter* (which requires *emotional colouring* of the solving problem) and *frontolimbic amplification filter* (which requires *emotional-thinking priority* of the solving problem). According to our research, all mentioned conditions might be realized in quantum-coherent stationary state of *waking meditation* (by entering in this prolonged altered state of consciousness, with mental addressing on the solved problem) - which Tesla has been doing by *persistent mental focusing* on the solving problem as described above!

On the other hand, during the *sleep state* the mentioned conditions might be realized in quantum-entangled non-stationary transitional states of *falling asleep* and quantum-coherent stationary states of *REM-sleep* (with previous *intense concentration* on the solving problem before sleep and *subsequent amplification* of the obtained classically-reduced answer in the form of symbolic

dream, which should be then *correctly interpreted* in the context of personal internal symbolism) - *widely applicable* even to meditation-non-trained persons [2-4,7]. Of course, for solving conceptually complex *scientific problems* it is necessary to be an *expert* in the corresponding field, in order to *scientifically rationalise a solution* representing scientific shift.

The same might be applied to *artistic creative experiences* and their subsequent *artistic expressions* (*Mozart as an extraordinary case study* [12]!), while *very art-works* then behave like *mental addresses of archetypes* being in contact with artists in mentally-addressed transpersonal communications during the acts of creation [2-4,7]. Then *deep artistic experiences of the public* might have strong *spiritual notes* too, through *spontaneous mental addressing of the artistic public on the masterpeace and emotionally-induced excitation into transitional state of consciousness*. Finally, this could similarly be extended to *deep spiritual experiences of the believers* with their *mental addressing on holy icon / relic* and emotionally-induced *excitation into transitional state of consciousness* [2-4,7].

III. SPIRITUALLY-DISENTANGLING QUANTUM CORRELATIONS OF INDIVIDUAL AND COLLECTIVE CONSCIOUSNESS

On the other hand, Tesla's introspective analyses may provide an *indirect clue* for deeper understanding of our *extended QHQG theoretical framework for integrative medicine and transpersonal psychology by imposing healing boundary conditions - based on methods and techniques for decrease of quantum entropy and macro-quantum correlations of acupuncture system / individual consciousness and collective consciousness* [7-11], as will be elaborated bellow.

Our QHQG theoretical framework also implies that quantum-holographic hierarchical parts carry information about the whole (which resembles the Hindu relationship *Brahman / Atman*, as a whole and the part which contains information about the whole [5-7], pointing to subtle *fractal coupling of various hierarchical levels* in Nature [7,13]. Additionally, if put in the theoretical context of the fundamental *holographic principle* [14], according to which any 3D physical system is *isomorphic* to the holographic information embedded on its 2D surface, then *quantum-holographic informational content of a body* could also be contained in *corresponding surface layer of vital energy of the astral-mental body (aura)*, as has been stated in various traditions [5,6] - in accordance with our extended QHQG framework for psychosomatics and proposed close relationship of the acupuncture system and consciousness (supported by meridian psycho-energy therapies as well, with rapid elimination of traumas, phobias, allergies and other psychosomatic disorders, by simultaneous emotional-involved intensive visualization of psychosomatic problems and tapping / touching on prescribed acupuncture points [7,15])!

Also, according to our extended QHQG theoretical framework, even unconscious *spontaneous transpersonal communications* would have *negative psychosomatic-spiritual effects*, giving rise to *global trans-generational increase of psychosomatic loads* on the level of quantum-holographic network of *collective consciousness* - which might represent the *sin / karmic engine of history*. *The only phenomenon which decreases these loads might be all-forgiving prayer to ourselves and others* (relatives, enemies, decided) - *probably via simultaneously vacuum-excited spiritually-purifying new macro-quantum portions of vital energy*

(similarly to spiritually-excited and mentally-channeled Ayurvedic, Qigong, Reiki and modern experiences of local and transpersonal healing [7-11,16]!) *in prayer-related persons* - as (*decoherence-like*) *quantum-gravitational non-stationary indeterminate purifying interventions in otherwise unitary intrinsic quantum-holographic evolution of collective consciousness!*

In the context of the *predestined trans-generational cosmic quantum hologram of collective consciousness*, in deep psycho-therapeutic terminology the possibility of its *optimization by spiritual purification* would be reduced to *dis-entangling / un-binding from almost all levels of individual and collective consciousness*, and consequently to *full re-integration of the higher Self* - by its *re-union with spiritual primal source* (with previous mentally controlled *systemic decreasing of macro-quantum correlations* of individual and collective consciousness, cf. Fig. 1(b) and Appendix as well). This might leave most room for *free will and influence on future preferences* - making the *role of every person indispensable* due to influence and concern for *collective mental environment!*

Our extended QHQG theoretical framework also suggest *two modes of knowledge*, according to the coupling strength consciousness-body-environment [2-4,7-11]: (i) *weakly-coupled direct mode* (in the *out-of-body spiritual-creative quantum-entangled non-stationary transitional states of consciousness / quantum-coherent stationary altered states of consciousness*, like prayer, meditation, daydreams, lucid dreams, creative insights...), and (ii) *strongly-coupled indirect mode* (in *bodily perceptively-rationally mediated classically-reduced stationary normal states of consciousness*, like sensory perception, logic and scientific reasoning...) - with *conditions of mutual transformation*. This then implies the *generally poor informational rationalization* of any direct quantum-holographic spiritual / religious *mystical experience* (as the problem of quantum theory of measurement, related to the reduction of the implicate order of quantum-entangled (quantum-holographic) non-stationary superposition of two-partite states into the particular explicate order of the corresponding measuring classically-reduced stationary one-partite states).

It also might help us understand that all our partial rationalizations (classically-reduced mappings!) are still an approximation of the fundamental-holistic reality (quantum-holographic territory!), *which differ from tradition to tradition*. On the other hand, *the consensus of the mystics of the same tradition on a similar partial rationalization of the mystical experiences* could be understood as *part of the same dominant-channeling trans-generational contextual heritage of members of the same tradition* (because we are not born as so-called *tabula rasa*, as being indicated by experiences of different traditions [17] and hypno-regressions [18] as well!). In this context, *several-millennia controversy about post mortem evolution of the soul* [17] is probably related to an *interpretative epistemological level* of transpersonal transfer of mentally-addressed loads within the existing generation and further generations via network of collective consciousness, with possibility that particular strong conflicts transferred as "ego-states" leave a strong impression of previously lived lives [7]. But what is the *ontological spiritual reality* - could remain *permanent controversy* of all these principally limited attempts of *human rationalization* [19].

So science is closing the circle, by re-discovering two

different modes of knowledge and at the same time setting its *own epistemological limitations* [2-7,19] - as preserved for millennia in *shamanistic tribal traditions*, who consider that true reality is represented by lucid dreams, and that the waking state is an illusion [5], or as concisely described by *Patanjali in Yoga Sutras* more than two millennia ago, pointing out that mystical experience (samadhi) is "filled with truth" and that it is "above inference and the scriptures" [6], or as formulated at the beginning of the last century by *Berdyayev in Philosophy of Freedom* as the difference of two modes of knowledge, prayer-mediated "comprehension of affairs invisible" and rationally-mediated "comprehension of affairs visible" [20]!

In addition, necessity of direct quantum-holographic coupling of individual and cosmic collective consciousness in an observation of the implicate order might need weak out-of-body consciousness-environment coupling, i.e. previous *reprogramming of all psychosomatic loads* (cleansing of possessive or hedonistic emotional-mental sinful / karmic connections with world - which as loading "mental addresses" would give rise to quantum projections of the mentally-channelled tunnelled consciousness upon the out-of-body environment, and thus to classically-reduced *out-of-body stationary extrasensory observing* of the mentally-addressed environment). In this context the efforts of mystics of all traditions to *purify consciousness / soul via spiritual practice* (prayer, meditation...) and thus to reach their *final eschatological goal* (Kingdom of God, nirvana...), i.e. *post-mortem salvation of the soul* (non-bounded sin-free / karmic-free) by *re-union (re-ligare / yoga)* with the *supreme God* [19] might appear reasonable!

All this indicates the *full significance of holistic education and behavior* - suggesting necessity of *redefining* the global educational / informational / policy goals, with the shift towards *holistic gentle actions for solutions of the global risk society* - thus helping future strategies to achieve and maintain a state of complete physical, mental and social well-being both on near and large scales [2-4,7-11].

IV. CONCLUSION

Tesla's autobiography with his introspective transpersonal creative experiences, Talbot's book with numerous well documented mysterious phenomena in altered states of consciousness, and development of our extended QHQG framework for quantum-informational integrative medicine, transpersonal psychology and control of creative processes, are certainly on line with renewed scientific interest of consciousness studies in past decades. This might help in emerging of a grand synthesis of rational-scientific (in normal states of consciousness) and creative-religious (in transitional and altered states of consciousness) modes of knowledge, within the framework of a new quantum holographic holistic paradigm. This might enhance the role of every individual due to the influence and care for *collective mental environment*, which is a *fundamental issue* of both spiritual and civil morality. And can help us realize that all our partial rationalizations (classically-reduced mappings!) are only approximation of fundamentally-holistic reality (quantum-holographic territory!), and that all divisions are tragic misunderstanding of the spiritually immature (historical) epoch of civilization (as map is not territory!). This could help improve future holistic strategies for both education and for transpersonal psychology and integrative medicine.

APPENDIX

The prevailing scientific paradigm considers information processing within the central nervous system as occurring through *hierarchically organized and interconnected neural networks* [7]. It seems that this hierarchy of biological neural networks is going down sub-cellular *cytoskeleton* level, being according to some scientists a kind of interface between *neural* and *quantum* levels [21] - the last one having within Feynman's propagator version of quantum mechanics an *analogous* mathematical formalism as Hopfield's neural network [7,22].

According to our *extended QHQG theoretical framework of consciousness and psychosomatics* [7-11], *physical explanation of transpersonal phenomena without space-time barriers* (even practically incorporated in psychosomatic energy-corrections [16]) - presumably might be sought in combination of *quantum-gravitational-like transitional states of consciousness and Principle of equivalence and objective reduction (OR) of quantum wave function*. So, they might be *OR-related consciousness-channeled quantum-gravitational-wormhole-tunneling of operator's individual consciousness* $|\Phi\rangle_s \rightarrow |\Phi_j\rangle_s$ *mentally addressed on target's content of the collective consciousness / environment* $|\Psi\rangle_E \rightarrow |\Psi_j\rangle_E$ *in operator's transitional states of consciousness* (as *highly-non-inertial transitional processes from the high-dielectric body to the low-dielectric out-of-body states*, equivalent-to-strong-gravitation according to Einstein's *Principle of equivalence* of inertial and gravitational accelerations) - quantum-gravitationally stabilized by so-called *exotic matter* (vacuum fluctuations in strongly-curved space-time of wormholes with *anti-gravitational effects* [7,23] - really observed in *transpersonal psychokinetic manifestations* of vital energy [5-7,19]):

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

This relation is basically also description of *quantum entanglement between memory attractors of individual* $|\Phi_i\rangle_s$ *and collective consciousness* $|\Psi_i\rangle_E$ (*quantum-correlated via consciousness-based resonant recognition / interaction of associatively-related attractors of individual and collective consciousness*), followed by *body-induced OR-related stochastic process* (with previously *mentally enhanced* $|c_j| \approx 1$ *contribution by focusing on* $|\Phi_j\rangle_s$ *memory attractor of individual consciousness*, cf. Fig. 1(a)). In this respect, the *"gauge quantum field theory and quantum gravity correspondence"* of any quantum entangled system (i.e. Einstein-Podolsky-Rosen correlated quantum pair) and related miniature (non-traversable) *wormhole* (i.e. quantum-gravitational Einstein-Rosen bridge) [24] should be pointed out - as note added in proof of our extended QHQG framework for transpersonal interactions via miniature wormholes (on their *traversability* in cosmological conditions see ref. [25], while in transpersonal conditions see refs. [2-4,7-11]). [Note that Eq. (1) can also describe a much more frequent, *constantly fluctuating*, spontaneous interaction of *individual consciousness with a closer environment*, making that with sensory-focused contents we have the experience of reality as in *normal states of consciousness*. This continuous fluctuation has analogy in the *quantum biomolecular world*, between *continuously fluctuating non-complementary states of biomolecular energy and states of biomolecular conformation* (and entangling states of biomolecular environment) [26].]

On the other hand, according to our *extended QDQH theoretical framework* [7,23], the similar *highly-non-inertial transitional processes* should be expected in *highly non-inertial microparticle interactions* in quantum-measurement-like situations (fully equivalent, according to Einstein's *Principle of equivalence*, to strong gravitational fields - where opening of wormhole-tunnels is expected [24,25]). The question how it is possible that these highly non-inertial microparticle processes with inevitable relativistic generation of microparticles' wormholes were not taken into account within quantum mechanics which is yet extremely accurate theory(?) - might be answered as they were(!), but implicitly within the ad hoc von Neumann's projection postulate [27] to account for quantum mechanical wave function *OR* in measurement-like situations - implying also that von Neumann's *ad hoc Projection postulate is based on quantum gravitational phenomena* [7,23], on deeper physical level than nonrelativistic quantum mechanical ones! [Such macroscopically accumulated exotic *OR-induced anti-gravitational imprints* might possibly be observable on cosmological scale (or have been already detected (?)) by recent advances in the cosmological tests, that invite again the *Einstein's cosmological constant* and related concept of hypothetical "*dark energy*" or "*quintessence*", which permeates all of space and tends to accelerate the expansion of the universe [28]!?)

On these lines, *explanation of the long standing open problems of the physical nature of psychosomatic acupuncture system and consciousness, including exotic transpersonal aspects of vital energy* (essentially important for our functioning according to Eastern traditional medicine!) - should presumably be sought on deeper quantum-gravitational level as well. The *exotic aspect of wormhole tunnels and vital energy* might be extended to *acupuncture channels (with vacuum-like outside inflow of vital energy / prana / qi)* - implying that such type of *exotic transpersonal communication* enables *continuously-refreshing interaction between the two mentally-addressed persons* [10]. This *transpersonally stabilizes quantum-entanglement of their acupuncture systems / consciousnesses* i.e. *prevents disentanglement* of their macroscopic quantum-entangled non-stationary states by *OR-like* interaction with their local somatic environments (*contrary to situation in microworld* without such stabilizing mentally-addressing exotic transpersonal effects, where laboratory-created quantum-entangled pairs of particles must be *well isolated from environment* in order to prevent their subsequent quantum-decoherence)! Regarding the EM microwave (MW) experiments [29] with unusual vacuum-like $n = 1$ refraction index of the *acupuncture channels* - based on the principles of *photonic crystals* and *photonic bandgap guiding* (where the confinement of photons in some low-index hollow-core 3D-defect might be achieved by exploiting the *photonic bandgap reflectivity* of the surrounding higher-index (quasi) periodic medium [30]!) - this inspired us to suggest an interesting possibility [8] to consider the *acupuncture channels* as *3D photonic crystal channel waveguides of propagated EM MW photons* (influencing backward the structure and ionic conductivity of the channels) - *confined* by the surrounding higher-index (*quasi*) periodic cellular body medium outside the channels (of $n = 5\div 6$ in the cellular cytoplasm and $n \gg 1$ in the cellular membranes of metabolic depending striking polarization of the volume ion density), with *non-propagated EM MW evanescent photons* pervading our body.

It should be also added, that in the context of *necessary conditions for decoherence*, defining of open quantum system and its environment is - *simultaneous process* - so that in the context of universal validity of quantum mechanics *consciousness is relative concept*, non-locally also influenced by farther parts of existing observing universe (and *vice versa!*), simultaneously creating conditions for the process of decoherence in the context of *existing relative borderline* [23]:

$$|\Phi\rangle_S |\Psi\rangle_E \equiv |(partial) individual / collective consciousness\rangle_S \\ |(complement) environment\rangle_E .$$

This is fully in accordance with the idea of *collective consciousness* as a possible *ontological property of the physical field itself*, with different micro-quantum and macro-quantum excitations. Then, as *cosmic collective consciousness* (coincident with the "*field*" of Universe) has its complement "*particle*" *cosmic environment*, their strong-interaction-coupling affects *decoherence of the "field" of cosmic collective consciousness* into stationary *classically-reduced (observing) stochastic state*, with probabilities of realizations of corresponding classically-reduced states of *cosmic collective consciousness*.

However, note that the *cosmic composite quantum state*:

$$|\Phi\rangle_S |\Psi\rangle_E \equiv |cosmic "field" collective consciousness\rangle_S \\ |(complement) cosmic "particle" environment\rangle_E$$

evolves without collapse (due to absence of the complement outside-cosmic environment!), which implies that *Universe as a whole is presumably quantum hologram* subject to deterministic Schrödinger evolution (in the context of universal validity of quantum mechanics!).

So, in the context of the above *proposed mechanism of prayer (which intrinsically non-unitary sets the necessary new boundary conditions without mutual mentally-loaded addresses*, cf. Sect. III) - it can really be said that an *all-forgiving prayer* represents a biophysical basis for the optimization of (*quantum*) *holistic global psychosomatics of collective consciousness* (and complementary incoming individual and collective events) [7]! Let us add that both traditional and modern experiences of local and transpersonal energy healing [16] (by spiritually-excited and mentally-channeled new macro-quantum portions of vital energy and their subsequent mentally-channeled transfer), indicate that *meditative visualization imposes new (decoherence-like) quantum gravitational boundary conditions* (but, in contrast to prayer, *it would not eliminate simultaneously all mentally-loaded addresses*, and would balance energy-informationally *only one particular client*; therefore, in such situations, it is necessary to do *circular meditative-healing visualization from all meta-positions involved in the existing conflict*, thus *eliminating simultaneously all mentally-loaded addresses*)! Hence, in the context of our QDQH theoretical framework, *spiritual prayer / meditation practices* represent *non-unitary source of free will at the level of collective consciousness*, which evolutionary *increases the responsibility of every individual and the whole human race* [7-11]!

It is hereby also instructive to mention *Buddhist* interpretation of *karma*, which occurs not as a *result of our spontaneous reaction* to the current situation in life, but as a *result of the latter justification of our conscious reactions against the others* in this situation [31]! In the context of the above mentioned *quantum-holographic predestined life programs* (and experiences of various traditions [17] and post-hypnotic regressions [18]),

this is fully justified because we all (*non-consciously*) react to *current conflicting-encoded life-situations* (several hundred milliseconds before we become aware [32]!), but immediately afterwards we have a chance to (*consciously*) *permanently untangle the existing trans-generational conflict by penitent-all-forgiving prayer*. This might be possibly the reason for *Christianity* to insist on *repenting and forgiving*, as anything else would enhance the existing mental / emotional personal loads and enlarge evil in the world, dismissing an individual and humankind from the final spiritual ideal of sinless state of individual and collective consciousness!

In the context of *trans-generational* cosmic quantum hologram, although on the level of collective consciousness everything is *quantum-holographically predestined* - as suggested by experiences of different spiritual traditions [17] and post-hypnotic regressions [18] as well - they also suggest the possibility of *optimizing life-programs by spiritual purification*. In particular, let us mention Hawaiian *ho'oponopono* tradition with *remarkable reprogramming of the life situations by contextual repenting and forgiving ourselves* [33]; or South American *ayahuaska* and Nigerian *Abiku* traditions with *fascinating spiritual diagnoses and extensions of the predestined-short-life programs* [16]; or *fascinating world bestseller of Anita Moorjani* [34] on *spiritual changing her life program* with return from clinical death and after a few weeks *spontaneous healing of terminal phase of cancer*; or contemporary spiritual teaching of *Bruno Groening* with *incredible healing channel* remained open after his death [35], in *optimizing both individual and collective 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 and forgiving ourselves, which is then manifested by love to others and acceptance of others (e.g. by spiritually dis-entangling / un-binding repentant-forgiving prayer [7,10])!]

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